# APPLICATION FOR CERTIFICATION
On Behalf of

Pelican Accessories

PS2 Wireless Controller

Model Number: PL-6613

FCC ID: O7X-PRED-S4

Prepared for : Pelican Accessories
1840 East 27th Street, Vernon, California, United States, 90058.

Prepared By : Audix Technology (Shenzhen) Co., Ltd.
No. 6, Ke Feng Rd., 52 Block,
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| | | |
|---|---|---|
| Report Number | : | ACS-F08335 |
| Date of Test | : | Jul.04~09, 2008 |
| Date of Report | : | Jul.17, 2008 |

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# TEST REPORT CERTIFICATION

| | | |
|---|---|---|
| Applicant | : | Pelican Accessories |
| Manufacturer | : | DongGuan Vision Electronics CO.,LTD |
| EUT Description | : | PS2 Wireless Controller |
| FCC ID | : | O7X-PRED-S4 |

(A) MODEL NO. : PL-6613
(B) SERIAL NO. : N/A
(C) POWER SUPPLY : DC 3.3V
(D) TEST VOLTAGE : DC 3.3V From PS2 AC 120/60Hz

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 : Jul.04~09, 2008

Prepared by : YoYo Wang
YoYo Wang / Assistant

Reviewer : Jamy Yu
Jamy Yu / Senior Engineer

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: Ken Lu 8/6 08'

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<br>ANSI C63.4-2003 | PASS |
| Radiated Emission Test | FCC Part 15C: 15.249<br>ANSI C63.4-2003 | PASS |
| Band Edge Compliance Test | FCC Part 15: 15.249 | PASS |

# 2. GENERAL INFORMATION

## 2.1. Description of Device (EUT)

| | | |
|---|---|---|
| Product name | : | PS2 Wireless Controller |
| Model Number | : | PL-6613 |
| FCC ID | : | O7X-PRED-S4 |
| Operation frequency | : | 2407MHz~2470MHz |
| Modulation | : | FSK |
| Applicant | : | Pelican Accessories<br>1840 East 27th Street, Vernon, California, United States, 90058. |
| Manufacturer | : | DongGuan Vision Electronics CO.,LTD<br>Long'an Road, Second Industrial Park, ShiGu, TangXia, DongGuan City, GuangDong, China |
| Date of Test | : | Jul.04~09, 2008 |
| Date of Receipt | : | Jul.03, 2008 |
| Sample Type | : | Prototype production |

Note: This EUT has two parts, one is Controller, 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.PS2

| | | |
|---|---|---|
| Manufacturer | : | SONY |
| M/N | : | SCPH-39004 |

## 2.3. Test Facility

Site Description

| | | |
|---|---|---|
| Name of Firm | : | Audix Technology (Shenzhen) Co., Ltd.<br>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<br>Registration Number: 90454 |
| 3m & 10m Anechoic Chamber | : | Jan. 31, 2007 File on Federal Communication Commission<br>Registration Number: 794232 |
| EMC Lab. | : | Accredited by DATech, German<br>Registration Number: DAT-P-091/99-01<br>Dec. 20, 2007<br><br>Accredited by NVLAP, USA<br>NVLAP Code: 200372-0<br>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 | 3.46 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 |

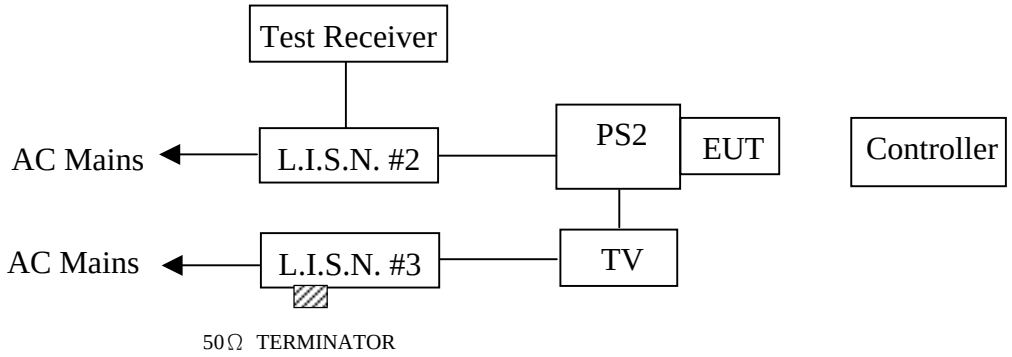
# 3. POWER LINE CONDUCTED EMISSION TEST

## 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# | Jan 09, 08 | 1/2 Year |
| 6. | Coaxial Switch | Anritsu | MP59B | M55367 | Jan 09, 08 | 1/2 Year |
| 7. | Pulse Limiter | Rohde & Schwarz | ESH3-Z2 | 100340 | Jan 09, 08 | 1/2 Year |

## 3.2. Block Diagram of Test Setup

### 3.2.1. Block diagram of connection between the EUT and simulators




***(EUT: PS2 Wireless Controller)***

## 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. PS2 Wireless Controller (EUT)

Model Number : PL-6613
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 (TX 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 PS2 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 PS2 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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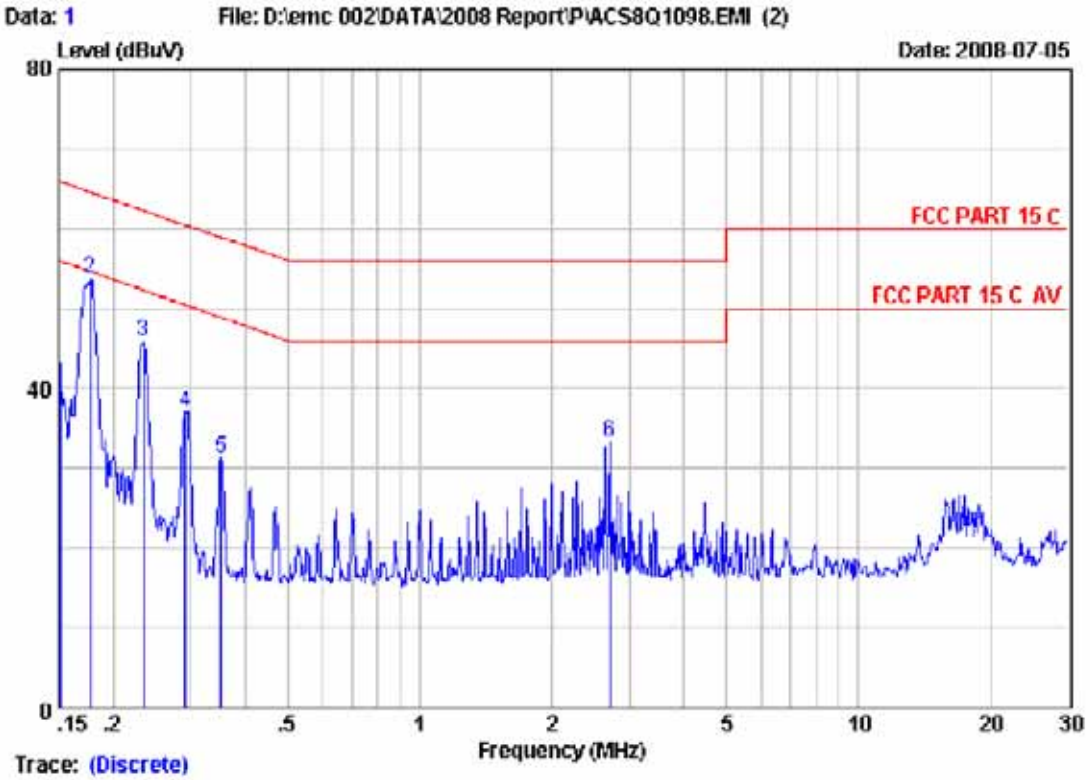


Site no :Audix No.1 Conduction
Dis./Ant. :-- KNU407 1# VA
Limit :FCC PART 15 C
Env./Ins. :29.5°C/55% ESHS 10
EUT :PS2 Wireless Controller
Power Rating :DC 3.3V From PS2 AC 120V/60Hz
Test Mode :Tx Mode
M/N :PL-6613 (Dongle)

Data no :1
LISN phase:
Engineer :Sunny

| No | Freq (MHz) | LISN Factor (dB) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV) | Limits (dBuV) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|
| 1 | 0.15 | 0.26 | 10.15 | 32.76 | 43.17 | 65.96 | 22.79 | QP |
| 2 | 0.18 | 0.26 | 10.15 | 43.17 | 53.60 | 64.64 | 11.04 | QP |
| 3 | 0.23 | 0.26 | 10.15 | 35.36 | 45.81 | 62.30 | 16.49 | QP |
| 4 | 0.29 | 0.26 | 10.15 | 26.64 | 37.05 | 60.46 | 23.41 | QP |
| 5 | 0.35 | 0.24 | 10.14 | 20.63 | 31.21 | 58.91 | 27.70 | QP |
| 6 | 2.71 | 0.10 | 10.16 | 23.05 | 33.31 | 56.00 | 22.69 | QP |

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

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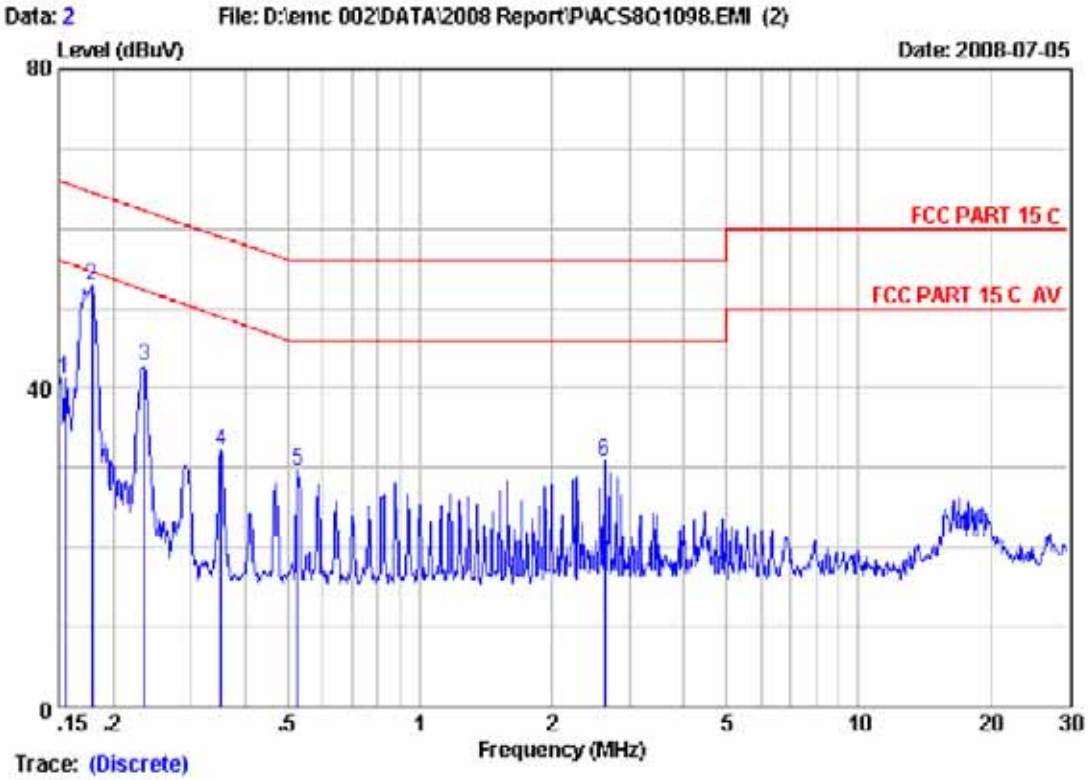



Site no :Audix No.1 Conduction
Dis./Ant. :-- KNU407 1# VB
Limit :FCC PART 15 C
Env./Ins. :29.5*C/55% ESHS 10
EUT :PS2 Wireless Controller
Power Rating :DC 3.3V From PS2 AC 120V/60Hz
Test Mode :Tx Mode
M/N :PL-6613 (Dongle)

Data no :2
LISN phase:
Engineer :Sunny

| No | Freq (MHz) | LISN Factor (dB) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV) | Limits (dBuV) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|
| 1 | 0.16 | 0.22 | 10.15 | 30.77 | 41.14 | 65.69 | 24.55 | QP |
| 2 | 0.18 | 0.15 | 10.15 | 42.55 | 52.85 | 64.55 | 11.70 | QP |
| 3 | 0.24 | 0.12 | 10.15 | 32.56 | 42.83 | 62.26 | 19.43 | QP |
| 4 | 0.35 | 0.16 | 10.14 | 21.86 | 32.16 | 58.91 | 26.75 | QP |
| 5 | 0.53 | 0.16 | 10.14 | 19.34 | 29.66 | 56.00 | 26.34 | QP |
| 6 | 2.64 | 0.03 | 10.16 | 20.57 | 30.76 | 56.00 | 25.24 | QP |

Remarks: 1.Emission Level=LISN Factor+Cable Loss+Reading.
2.If the average limit is met when useing 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

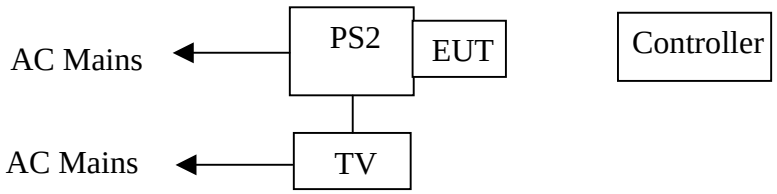
| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|---|---|---|---|---|---|---|
| 1. | 3#Chamber | AUDIX | N/A | N/A | Jun.09, 08 | 1/2 Year |
| 2. | EMI Spectrum | Agilent | E7403A | MY42000106 | May 10, 08 | 1 Year |
| 3. | Test Receiver | Rohde & Schwarz | ESVS20 | 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 | JBY400 | 3# Chamber No.2 | Jul.08.08 | 1/2 Year |
| 8. | RF Cable | JINGCHENG | JBY400 | 3# Chamber No.3 | Jul.08.08 | 1/2 Year |
| 9. | RF Cable | JINGCHENG | JBY400 | 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 |

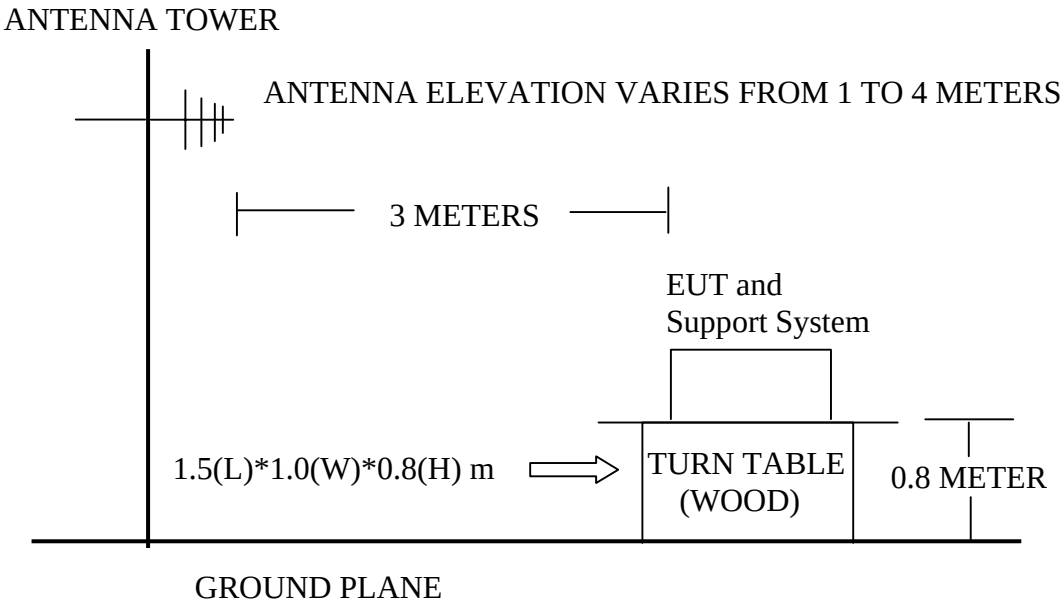
## 4.2. Block Diagram of Test Setup

### 4.2.1. Block Diagram of connection between EUT and simulators




***(EUT: PS2 Wireless Controller)***

4.2.2. Anechoic Chamber Setup Diagram




## 4.3. Radiated Emission Limit Standard: FCC 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 |
| Local Oscillator: | 3 | 114.0 dB(μV)/m (Peak)<br>94.0 dB(μV)/m (Average) | |
| Above 1000 | 3 | Other:<br>74.0 dB(μV)/m (Peak)<br>54.0 dB(μV)/m (Average) | |

Remark： (1) Emission level dBμV = 20 log Emission level μV/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. PS2 Wireless Controller (EUT)

Model Number : PL-6613
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.

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 $10^{th}$ (25GHz) harmonic are checked. And for the frequency rang from 1GHz to18GHz, only fundamental emission and $2^{th}$ harmonic were detected. All other emissions were too low to read, and no emissions were found from 18GHz to 25GHz, So the radiated emissions from 18GHz to 25GHz were not record.

## 4.7. Radiated Emission Test Results

**PASS.**

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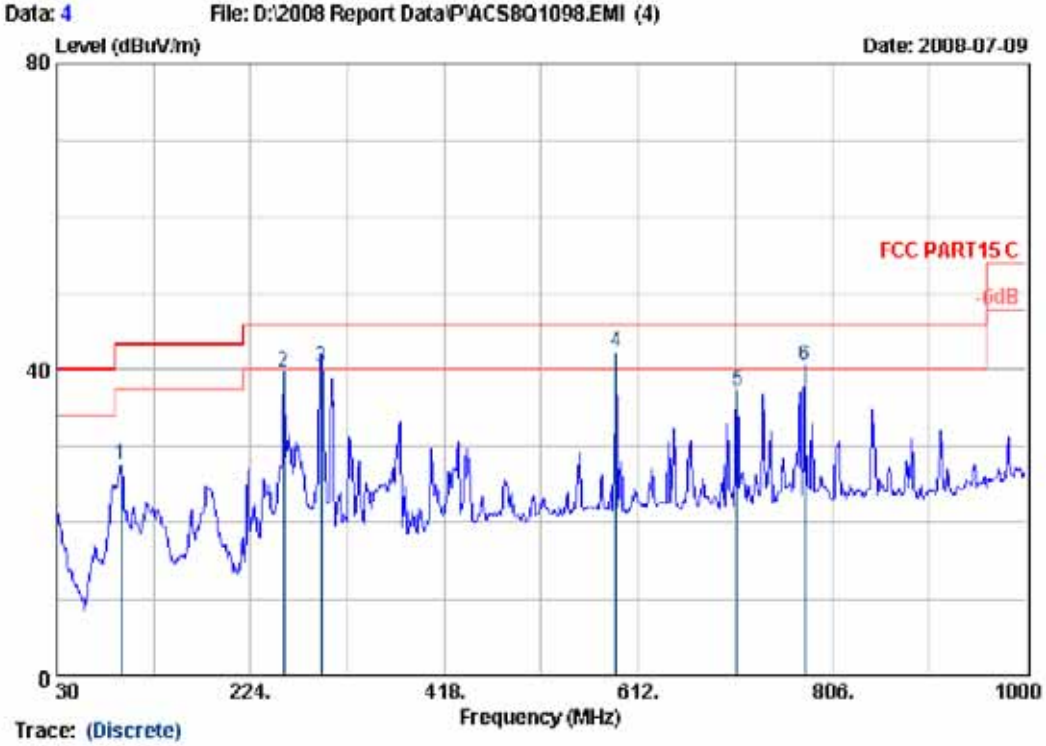


Site no. : 3# Chamber Radiation Data no. : 4
Dis. / Ant. : 3m CBL6112D Ant. pol. : HORIZONTAL
Limit : FCC PART15 C
Env. / Ins. : 24*C/56% ESVS20 Engineer : Sunny
EUT : PS2 Wireless Controller
Power Rating : DC 3.3V From PS2 AC120V/60Hz
Test Mode : Tx Mode
M/N : PL-6613(Dongle)

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|
| 1 | 94.99 | 9.92 | 0.76 | 16.89 | 27.57 | 43.50 | 15.93 | QP |
| 2 | 256.98 | 12.97 | 1.27 | 25.49 | 39.73 | 46.00 | 6.27 | QP |
| 3 | 294.66 | 12.59 | 1.34 | 26.40 | 40.33 | 46.00 | 5.67 | QP |
| 4 | 589.80 | 18.48 | 1.99 | 21.90 | 42.37 | 46.00 | 3.63 | QP |
| 5 | 710.94 | 18.68 | 2.17 | 16.32 | 37.17 | 46.00 | 8.83 | QP |
| 6 | 778.84 | 19.55 | 2.31 | 18.62 | 40.48 | 46.00 | 5.52 | 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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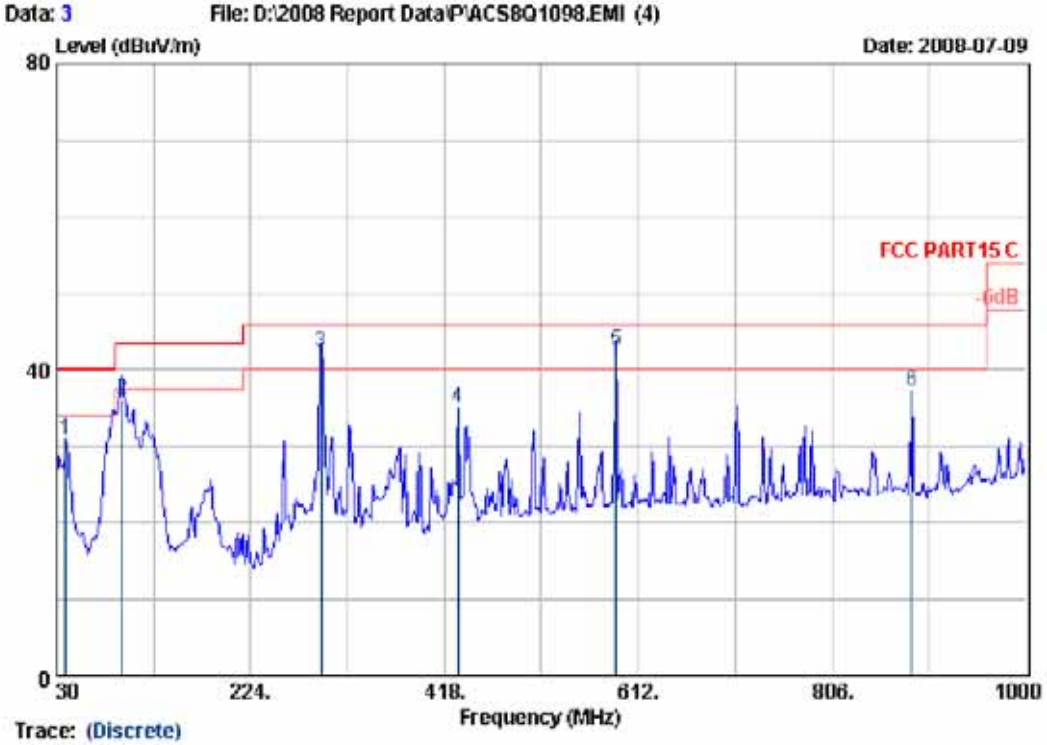


Site no. : 3# Chamber Radiation Data no. : 3
Dis. / Ant. : 3m CBL6112D Ant. pol. : VERTICAL
Limit : FCC PART15 C
Env. / Ins. : 24*C/56% ESVS20 Engineer : Sunny
EUT : PS2 Wireless Controller
Power Rating : DC 3.3V From PS2 AC120V/60Hz
Test Mode : Tx Mode
M/N : PL-6613(Dongle)

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|
| 1 | 36.73 | 13.99 | 0.59 | 16.37 | 30.95 | 40.00 | 9.05 | QP |
| 2 | 95.20 | 9.96 | 0.76 | 25.40 | 36.12 | 43.50 | 7.38 | QP |
| 3 | 294.66 | 12.59 | 1.34 | 28.40 | 42.33 | 46.00 | 3.67 | QP |
| 4 | 431.58 | 16.77 | 1.66 | 16.64 | 35.07 | 46.00 | 10.93 | QP |
| 5 | 589.80 | 18.48 | 1.99 | 22.10 | 42.57 | 46.00 | 3.43 | QP |
| 6 | 885.54 | 20.03 | 2.51 | 14.58 | 37.12 | 46.00 | 8.88 | 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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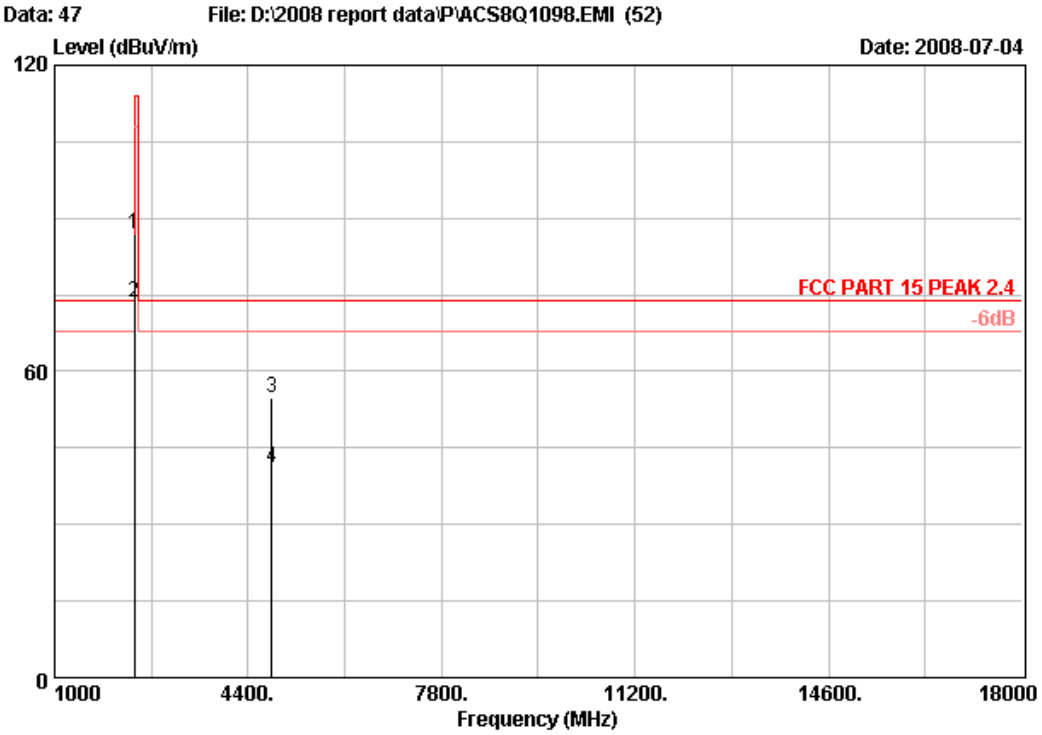


Site no. : 3# Chamber
Data no. : 47
Dis. / Ant. : 3m 3115 FACTOR
Ant. pol. : VERTICAL
Limit : FCC PART 15 PEAK 2.4
Env. / Ins. : 23*C/54%
Engineer : Sunny
EUT : PS2 Wireless Controller
Power Rating: DC 3.3V
Test mode : TX Mode in 2407MHz
Memo : PL-6613(Dongle)

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Emission Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2407.00 | 29.03 | 6.73 | 35.18 | 86.17 | 86.75 | 114.00 | 27.25 | Peak |
| 2 | 2407.00 | 29.03 | 6.73 | 35.18 | 73.01 | 73.59 | 94.00 | 20.41 | Average |
| 3 | 4814.00 | 33.98 | 10.54 | 34.49 | 44.64 | 54.67 | 74.00 | 19.33 | Peak |
| 4 | 4814.00 | 33.98 | 10.54 | 34.49 | 30.97 | 41.00 | 54.00 | 13.00 | 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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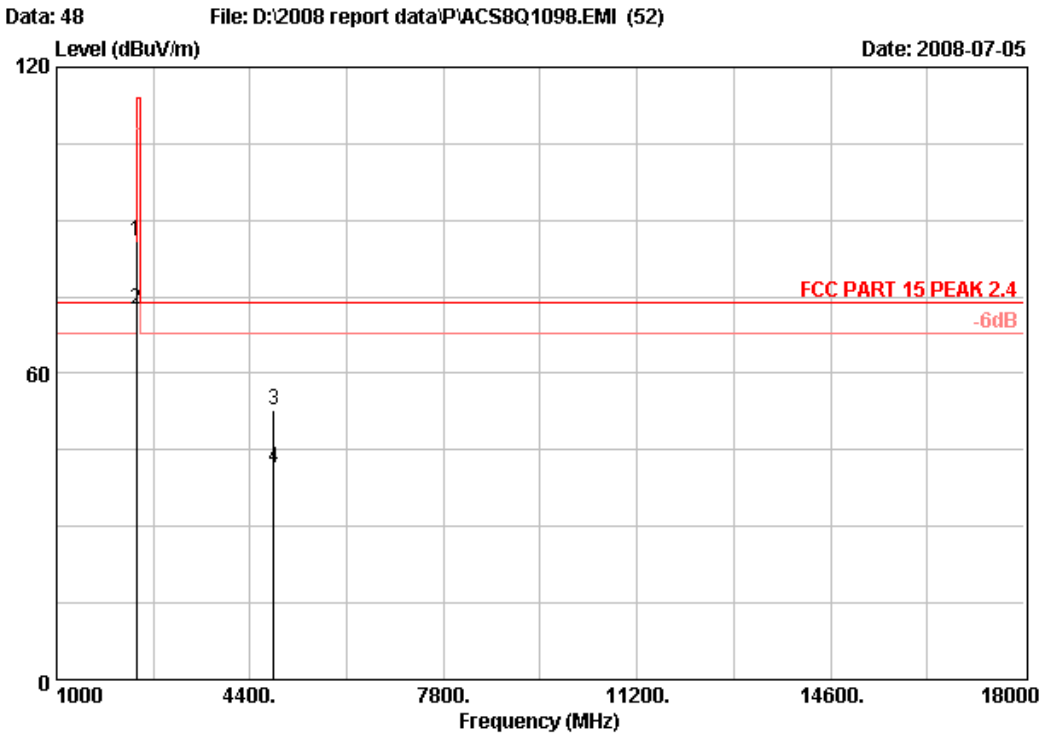
Postcode:518057




Site no. : 3# Chamber
Data no. : 48
Dis. / Ant. : 3m 3115 FACTOR
Ant. pol. : HORIZONTAL
Limit : FCC PART 15 PEAK 2.4
Env. / Ins. : 23*C/54%
Engineer : Sunny
EUT : PS2 Wireless Controller
Power Rating: DC 3.3V
Test mode : TX Mode in 2407MHz
Memo : PL-6613(Dongle)

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Emission Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2407.00 | 29.03 | 6.73 | 35.18 | 85.17 | 85.75 | 114.00 | 28.25 | Peak |
| 2 | 2407.00 | 29.03 | 6.73 | 35.18 | 71.89 | 72.47 | 94.00 | 21.53 | Average |
| 3 | 4814.00 | 33.98 | 10.54 | 34.49 | 42.85 | 52.88 | 74.00 | 21.12 | Peak |
| 4 | 4814.00 | 33.98 | 10.54 | 34.49 | 31.44 | 41.47 | 54.00 | 12.53 | 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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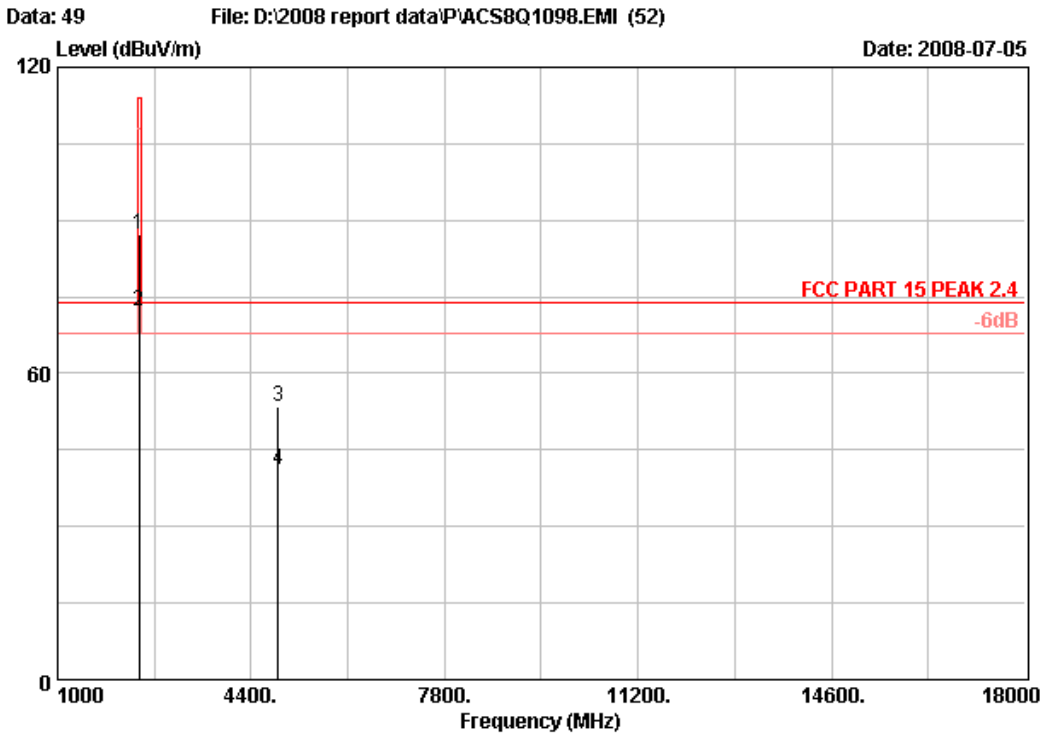


Site no. : 3# Chamber
Data no. : 49
Dis. / Ant. : 3m 3115 FACTOR
Ant. pol. : HORIZONTAL
Limit : FCC PART 15 PEAK 2.4
Env. / Ins. : 23*C/54%
Engineer : Sunny
EUT : PS2 Wireless Controller
Power Rating: DC 3.3V
Test mode : TX Mode in 2438MHz
Memo : PL-6613(Dongle)

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Emission Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2438.00 | 29.11 | 6.80 | 35.17 | 86.58 | 87.32 | 114.00 | 26.68 | Peak |
| 2 | 2438.00 | 29.11 | 6.80 | 35.17 | 71.60 | 72.34 | 94.00 | 21.66 | Average |
| 3 | 4876.00 | 34.16 | 10.56 | 34.48 | 43.28 | 53.52 | 74.00 | 20.48 | Peak |
| 4 | 4876.00 | 34.16 | 10.56 | 34.48 | 31.02 | 41.26 | 54.00 | 12.74 | 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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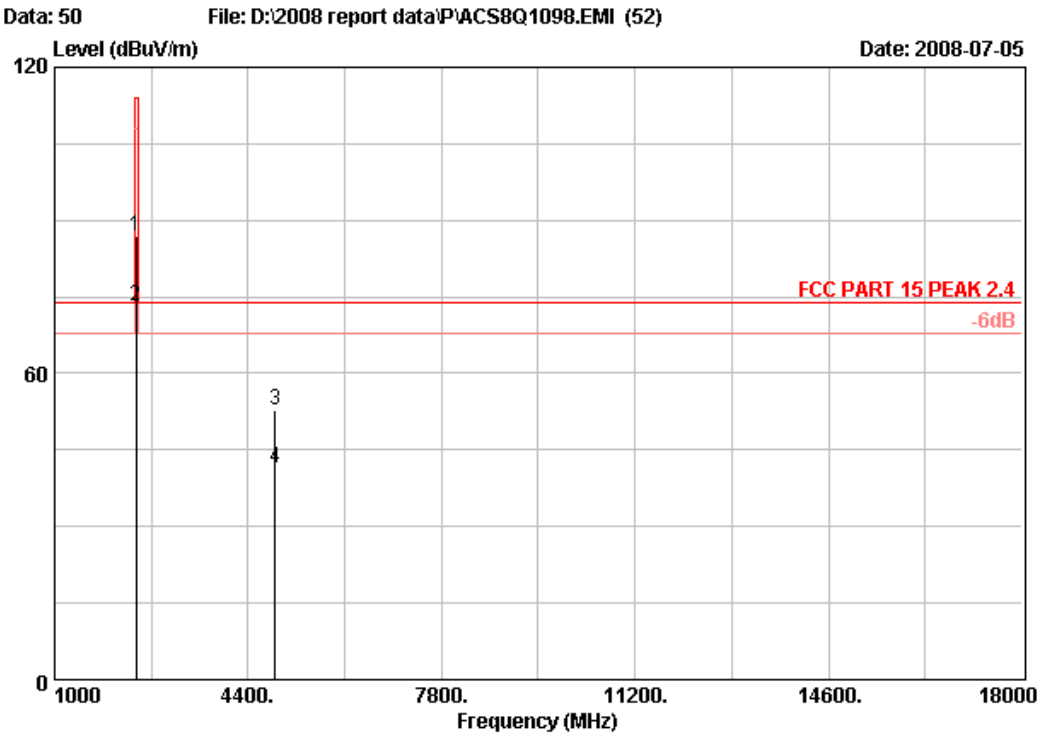


Site no. : 3# Chamber
Data no. : 50
Dis. / Ant. : 3m 3115 FACTOR
Ant. pol. : VERTICAL
Limit : FCC PART 15 PEAK 2.4
Env. / Ins. : 23*C/54%
Engineer : Sunny
EUT : PS2 Wireless Controller
Power Rating: DC 3.3V
Test mode : TX Mode in 2438MHz
Memo : PL-6613(Dongle)

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Emission Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2438.00 | 29.11 | 6.80 | 35.17 | 86.23 | 86.97 | 114.00 | 27.03 | Peak |
| 2 | 2438.00 | 29.11 | 6.80 | 35.17 | 72.49 | 73.23 | 94.00 | 20.77 | Average |
| 3 | 4876.00 | 34.16 | 10.56 | 34.48 | 42.44 | 52.68 | 74.00 | 21.32 | Peak |
| 4 | 4876.00 | 34.16 | 10.56 | 34.48 | 31.14 | 41.38 | 54.00 | 12.62 | 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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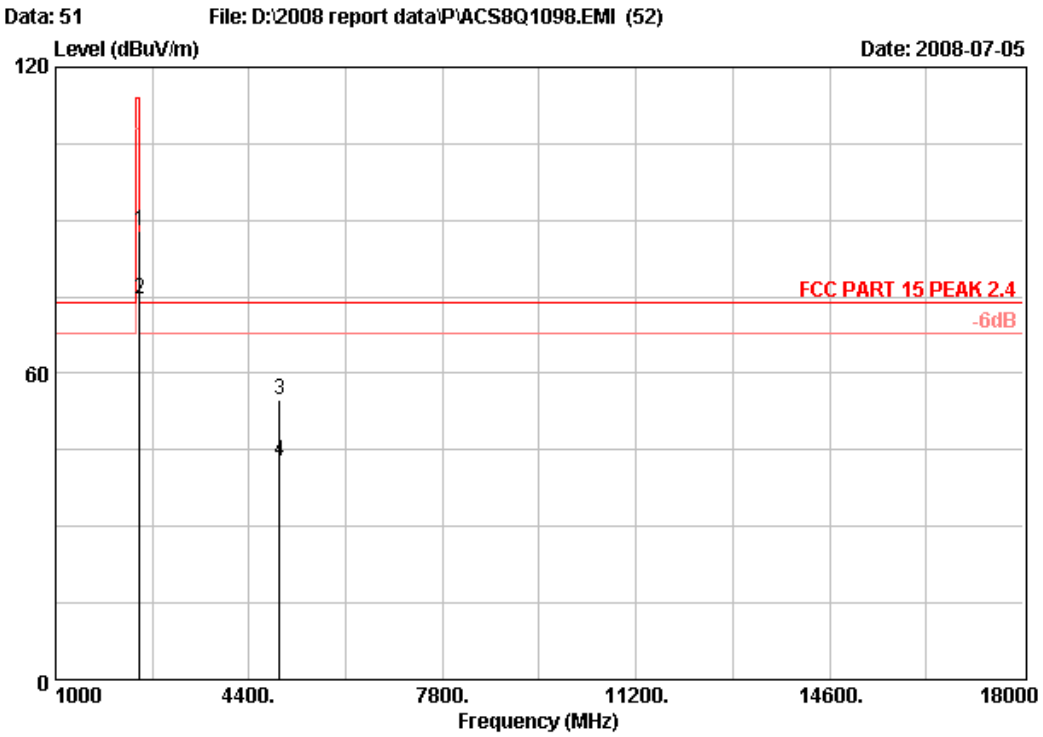


Site no. : 3# Chamber
Data no. : 51
Dis. / Ant. : 3m 3115 FACTOR
Ant. pol. : VERTICAL
Limit : FCC PART 15 PEAK 2.4
Env. / Ins. : 23*C/54%
Engineer : Sunny
EUT : PS2 Wireless Controller
Power Rating: DC 3.3V
Test mode : TX Mode in 2470MHz
Memo : PL-6613(Dongle)

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Emission Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2470.00 | 29.15 | 6.87 | 35.16 | 86.93 | 87.79 | 114.00 | 26.21 | Peak |
| 2 | 2470.00 | 29.15 | 6.87 | 35.16 | 73.79 | 74.65 | 94.00 | 19.35 | Average |
| 3 | 4940.00 | 34.34 | 10.58 | 34.46 | 44.38 | 54.84 | 74.00 | 19.16 | Peak |
| 4 | 4940.00 | 34.34 | 10.58 | 34.46 | 32.21 | 42.67 | 54.00 | 11.33 | 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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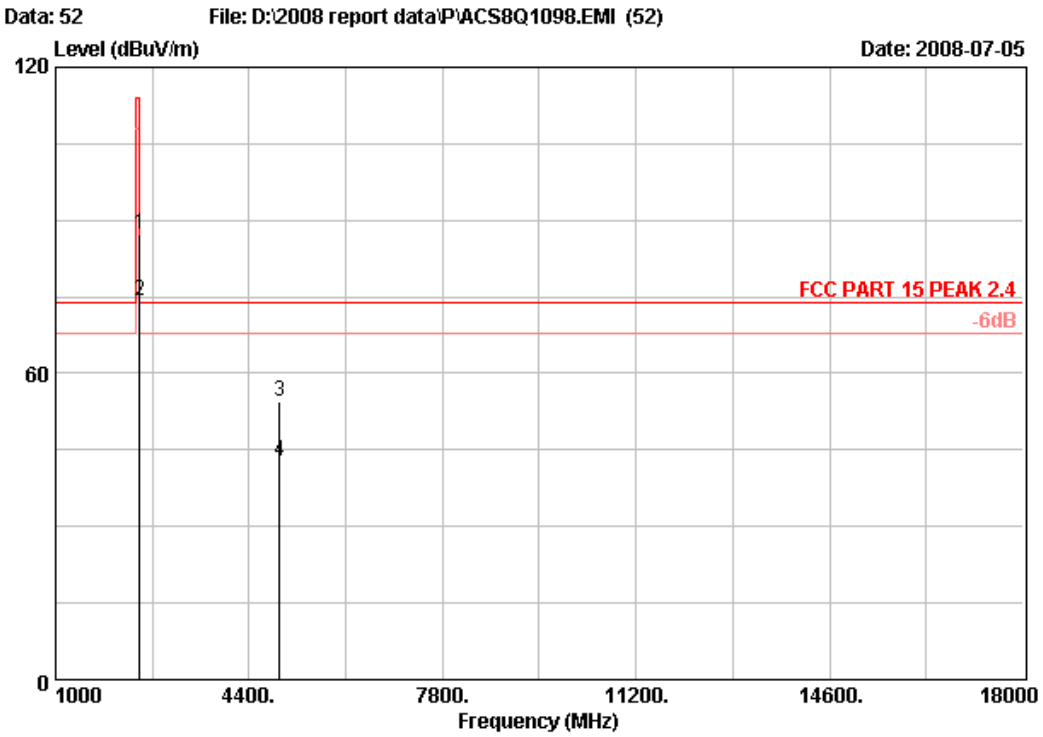


Site no. : 3# Chamber
Data no. : 52
Dis. / Ant. : 3m 3115 FACTOR
Ant. pol. : HORIZONTAL
Limit : FCC PART 15 PEAK 2.4
Env. / Ins. : 23*C/54%
Engineer : Sunny
EUT : PS2 Wireless Controller
Power Rating: DC 3.3V
Test mode : TX Mode in 2470MHz
Memo : PL-6613(Dongle)

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Emission Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2470.00 | 29.15 | 6.87 | 35.16 | 86.29 | 87.15 | 114.00 | 26.85 | Peak |
| 2 | 2470.00 | 29.15 | 6.87 | 35.16 | 73.25 | 74.11 | 94.00 | 19.89 | Average |
| 3 | 4940.00 | 34.34 | 10.58 | 34.46 | 44.16 | 54.62 | 74.00 | 19.38 | Peak |
| 4 | 4940.00 | 34.34 | 10.58 | 34.46 | 32.27 | 42.73 | 54.00 | 11.27 | 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.

# 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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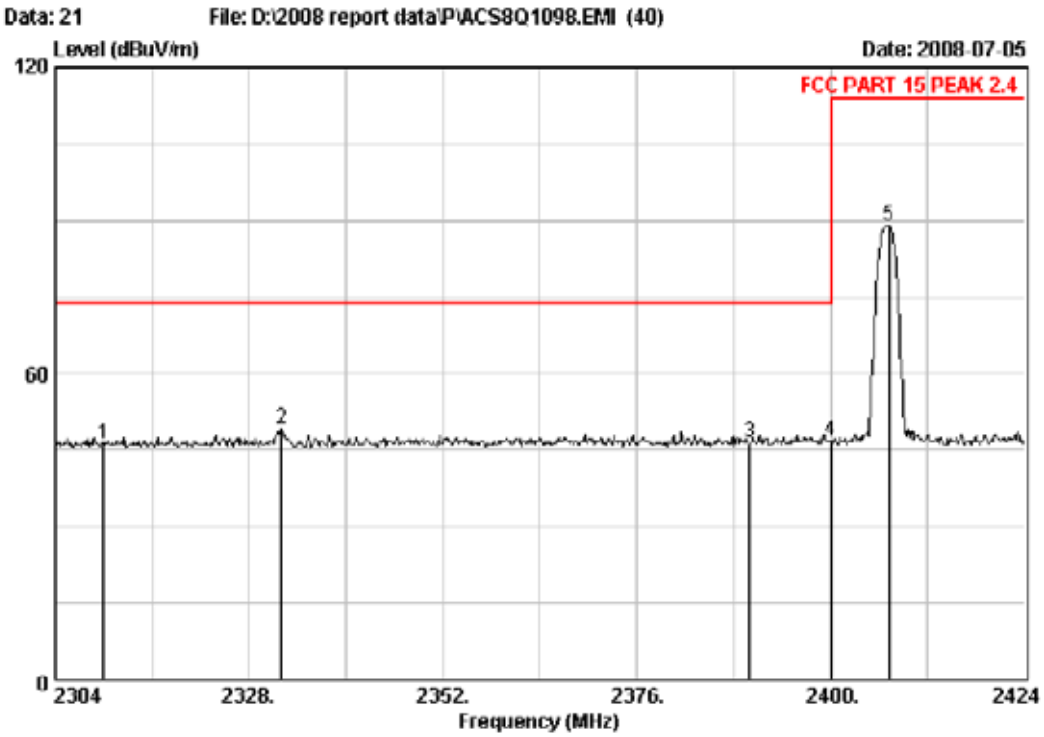


Site no. : 3# Chamber
Dis. / Ant. : 3m 3115 FACTOR
Limit : FCC PART 15 PEAK 2.4
Env. / Ins. : 23°C/54%
EUT : PS2 Wireless Controller
Power Rating: DC 3.3V
Test Mode : TX Mode in 2407MHz
M/N : PL-6613(Dongle)

Data no. : 21
Ant. pol. : HORIZONTAL
Engineer : Sunny

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Emission Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2310.00 | 28.79 | 6.63 | 35.21 | 46.07 | 46.28 | 74.00 | 27.72 | Peak |
| 2 | 2331.96 | 28.83 | 6.65 | 35.20 | 48.99 | 49.27 | 74.00 | 24.73 | Peak |
| 3 | 2390.00 | 28.99 | 6.71 | 35.18 | 45.86 | 46.38 | 74.00 | 27.62 | Peak |
| 4 | 2400.00 | 28.99 | 6.73 | 35.18 | 46.12 | 46.66 | 74.00 | 27.34 | Peak |
| 5 | 2407.20 | 29.03 | 6.73 | 35.18 | 88.21 | 88.79 | 114.00 | 25.21 | 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.

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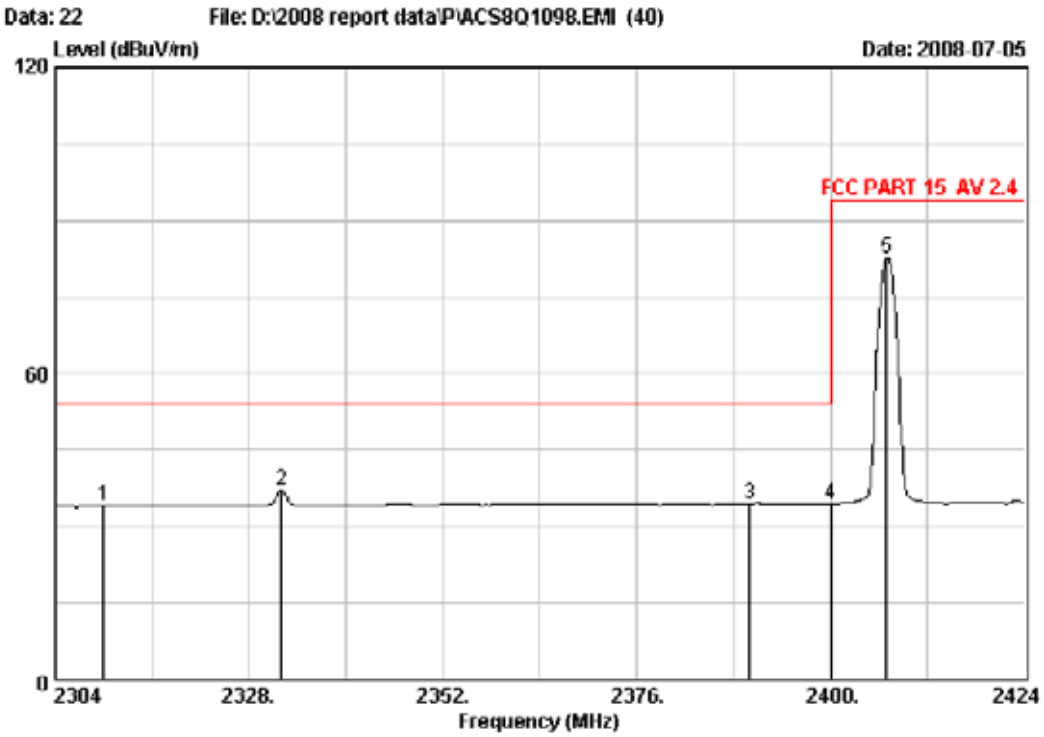


Site no. : 3# Chamber
Dis. / Ant. : 3m 3115 FACTOR
Limit : FCC PART 15 AV 2.4
Env. / Ins. : 23°C/54%
EUT : PS2 Wireless Controller
Power Rating: DC 3.3V
Test Mode : TX Mode in 2407MHz
M/N : PL-6613(Dongle)

Data no. : 22
Ant. pol. : HORIZONTAL
Engineer : Sunny

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Emission Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2310.00 | 28.79 | 6.63 | 35.21 | 33.88 | 34.09 | 54.00 | 19.91 | Average |
| 2 | 2331.96 | 28.83 | 6.65 | 35.20 | 36.86 | 37.14 | 54.00 | 16.86 | Average |
| 3 | 2390.00 | 28.99 | 6.71 | 35.18 | 34.03 | 34.55 | 54.00 | 19.45 | Average |
| 4 | 2400.00 | 28.99 | 6.73 | 35.18 | 33.91 | 34.45 | 54.00 | 19.55 | Average |
| 5 | 2406.96 | 29.03 | 6.73 | 35.18 | 81.98 | 82.56 | 94.00 | 11.44 | 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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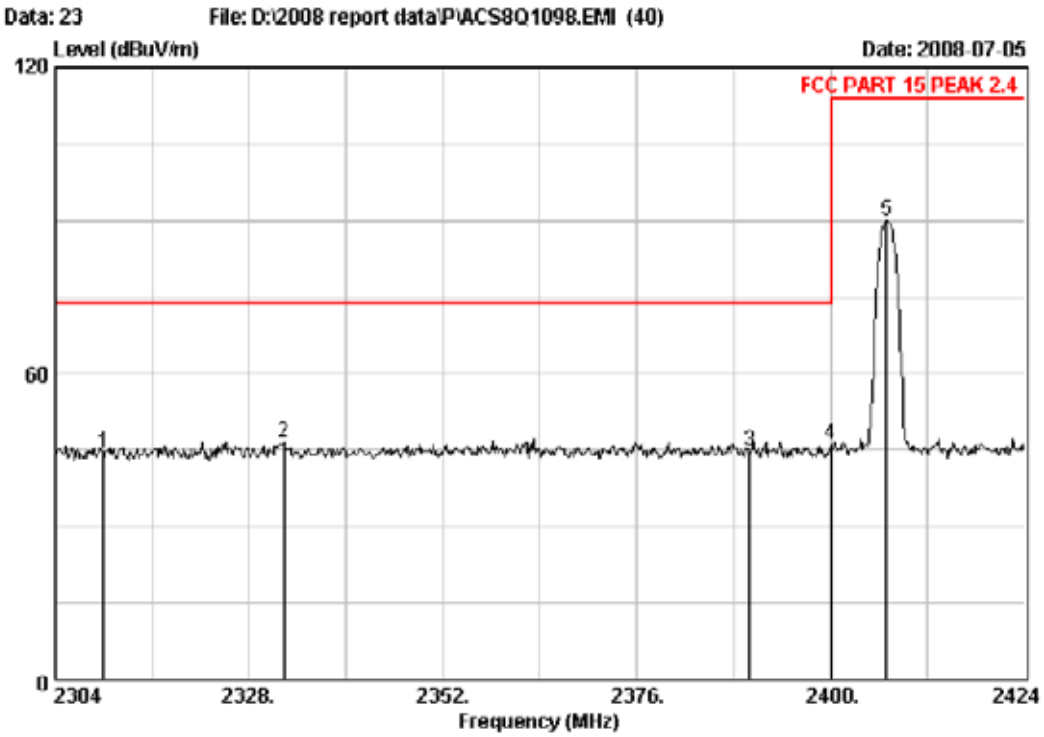


Site no. : 3# Chamber
Dis. / Ant. : 3m 3115 FACTOR
Limit : FCC PART 15 PEAK 2.4
Env. / Ins. : 23°C/54%
EUT : PS2 Wireless Controller
Power Rating: DC 3.3V
Test Mode : TX Mode in 2407MHz
M/N : PL-6613(Dongle)

Data no. : 23
Ant. pol. : VERTICAL
Engineer : Sunny

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Emission Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2310.00 | 28.79 | 6.63 | 35.21 | 44.34 | 44.55 | 74.00 | 29.45 | Peak |
| 2 | 2332.32 | 28.83 | 6.65 | 35.20 | 46.18 | 46.46 | 74.00 | 27.54 | Peak |
| 3 | 2390.00 | 28.99 | 6.71 | 35.18 | 44.31 | 44.83 | 74.00 | 29.17 | Peak |
| 4 | 2400.00 | 28.99 | 6.73 | 35.18 | 45.47 | 46.01 | 74.00 | 27.99 | Peak |
| 5 | 2406.96 | 29.03 | 6.73 | 35.18 | 89.20 | 89.78 | 114.00 | 24.22 | 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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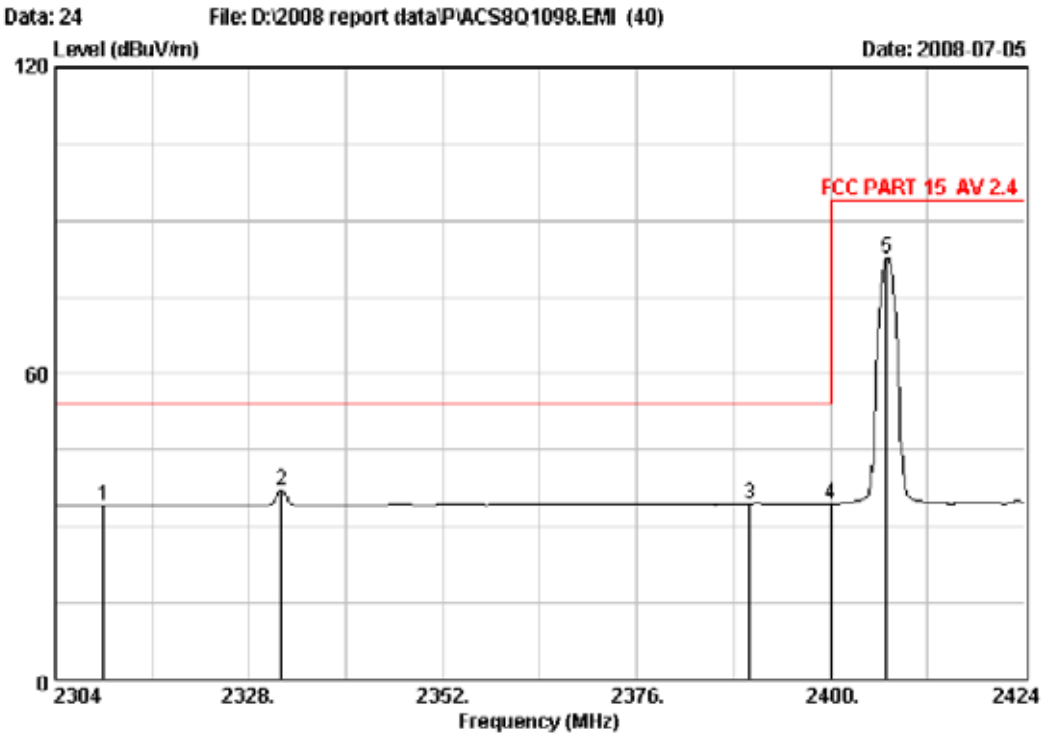


Site no. : 3# Chamber
Dis. / Ant. : 3m 3115 FACTOR
Limit : FCC PART 15 AV 2.4
Env. / Ins. : 23°C/54%
EUT : PS2 Wireless Controller
Power Rating: DC 3.3V
Test Mode : TX Mode in 2407MHz
M/N : PL-6613(Dongle)

Data no. : 24
Ant. pol. : VERTICAL
Engineer : Sunny

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Emission Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2310.00 | 28.79 | 6.63 | 35.21 | 33.90 | 34.11 | 54.00 | 19.89 | Average |
| 2 | 2331.96 | 28.83 | 6.65 | 35.20 | 36.94 | 37.22 | 54.00 | 16.78 | Average |
| 3 | 2390.00 | 28.99 | 6.71 | 35.18 | 34.01 | 34.53 | 54.00 | 19.47 | Average |
| 4 | 2400.00 | 28.99 | 6.73 | 35.18 | 33.90 | 34.44 | 54.00 | 19.56 | Average |
| 5 | 2406.96 | 29.03 | 6.73 | 35.18 | 81.97 | 82.55 | 94.00 | 11.45 | 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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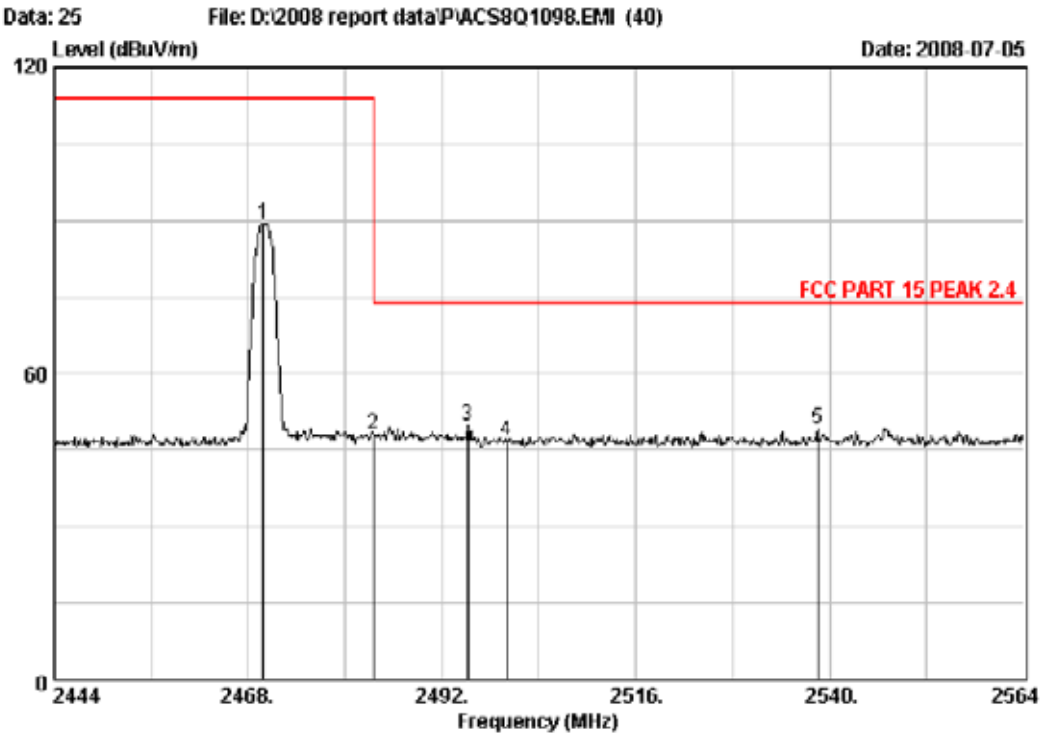


Site no. : 3# Chamber
Dis. / Ant. : 3m 3115 FACTOR
Limit : FCC PART 15 PEAK 2.4
Env. / Ins. : 23°C/54%
EUT : PS2 Wireless Controller
Power Rating: DC 3.3V
Test Mode : TX Mode in 2470MHz
M/N : PL-6613(Dongle)

Data no. : 25
Ant. pol. : VERTICAL
Engineer : Sunny

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Emission Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2469.92 | 29.15 | 6.87 | 35.16 | 88.54 | 89.40 | 114.00 | 24.60 | Peak |
| 2 | 2483.50 | 29.19 | 6.87 | 35.16 | 47.37 | 48.27 | 74.00 | 25.73 | Peak |
| 3 | 2495.12 | 29.23 | 6.91 | 35.15 | 48.77 | 49.76 | 74.00 | 24.24 | Peak |
| 4 | 2500.00 | 29.23 | 6.91 | 35.15 | 45.91 | 46.90 | 74.00 | 27.10 | Peak |
| 5 | 2538.56 | 29.41 | 6.96 | 35.13 | 47.92 | 49.16 | 74.00 | 24.84 | 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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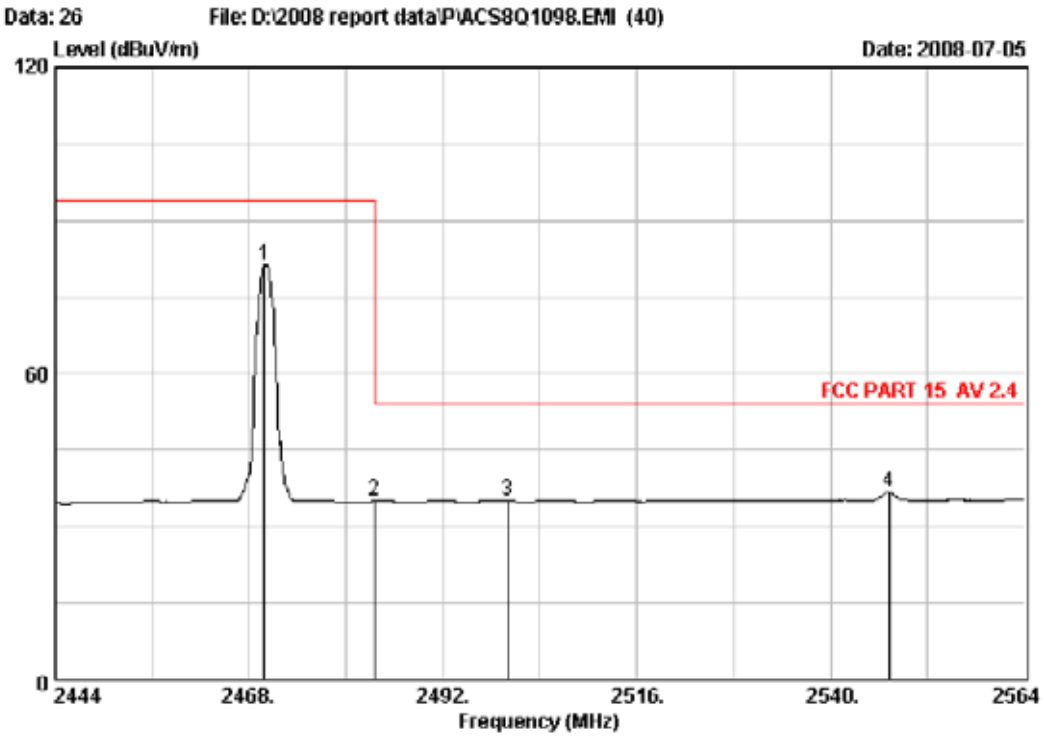


Site no. : 3# Chamber
Dis. / Ant. : 3m 3115 FACTOR
Limit : FCC PART 15 AV 2.4
Env. / Ins. : 23°C/54%
EUT : PS2 Wireless Controller
Power Rating: DC 3.3V
Test Mode : TX Mode in 2470MHz
M/N : PL-6613(Dongle)

Data no. : 26
Ant. pol. : VERTICAL
Engineer : Sunny

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Emission Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2469.92 | 29.15 | 6.87 | 35.16 | 80.39 | 81.25 | 94.00 | 12.75 | Average |
| 2 | 2483.50 | 29.19 | 6.87 | 35.16 | 34.08 | 34.98 | 54.00 | 19.02 | Average |
| 3 | 2500.00 | 29.23 | 6.91 | 35.15 | 34.04 | 35.03 | 54.00 | 18.97 | Average |
| 4 | 2547.20 | 29.41 | 6.98 | 35.13 | 35.48 | 36.74 | 54.00 | 17.26 | 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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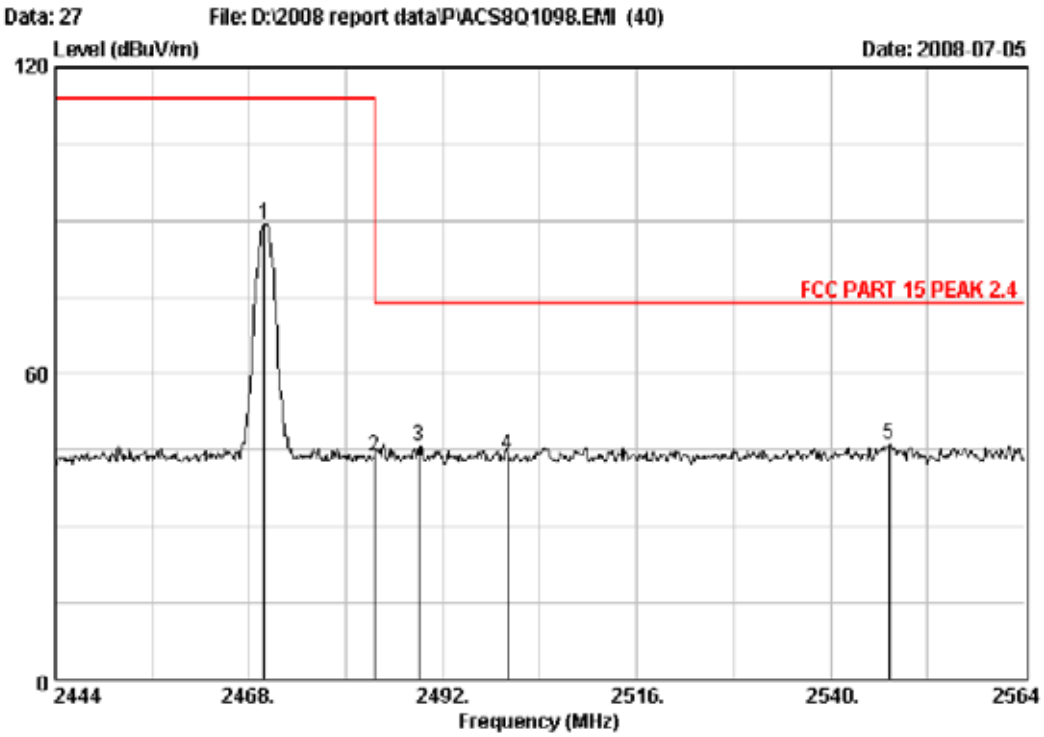


Site no. : 3# Chamber
Dis. / Ant. : 3m 3115 FACTOR
Limit : FCC PART 15 PEAK 2.4
Env. / Ins. : 23°C/54%
EUT : PS2 Wireless Controller
Power Rating: DC 3.3V
Test Mode : TX Mode in 2470MHz
M/N : PL-6613(Dongle)

Data no. : 27
Ant. pol. : HORIZONTAL
Engineer : Sunny

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Emission Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2469.92 | 29.15 | 6.87 | 35.16 | 88.40 | 89.26 | 114.00 | 24.74 | Peak |
| 2 | 2483.50 | 29.19 | 6.87 | 35.16 | 42.84 | 43.74 | 74.00 | 30.26 | Peak |
| 3 | 2489.00 | 29.23 | 6.91 | 35.15 | 44.90 | 45.89 | 74.00 | 28.11 | Peak |
| 4 | 2500.00 | 29.23 | 6.91 | 35.15 | 43.25 | 44.24 | 74.00 | 29.76 | Peak |
| 5 | 2547.20 | 29.41 | 6.98 | 35.13 | 44.88 | 46.14 | 74.00 | 27.86 | 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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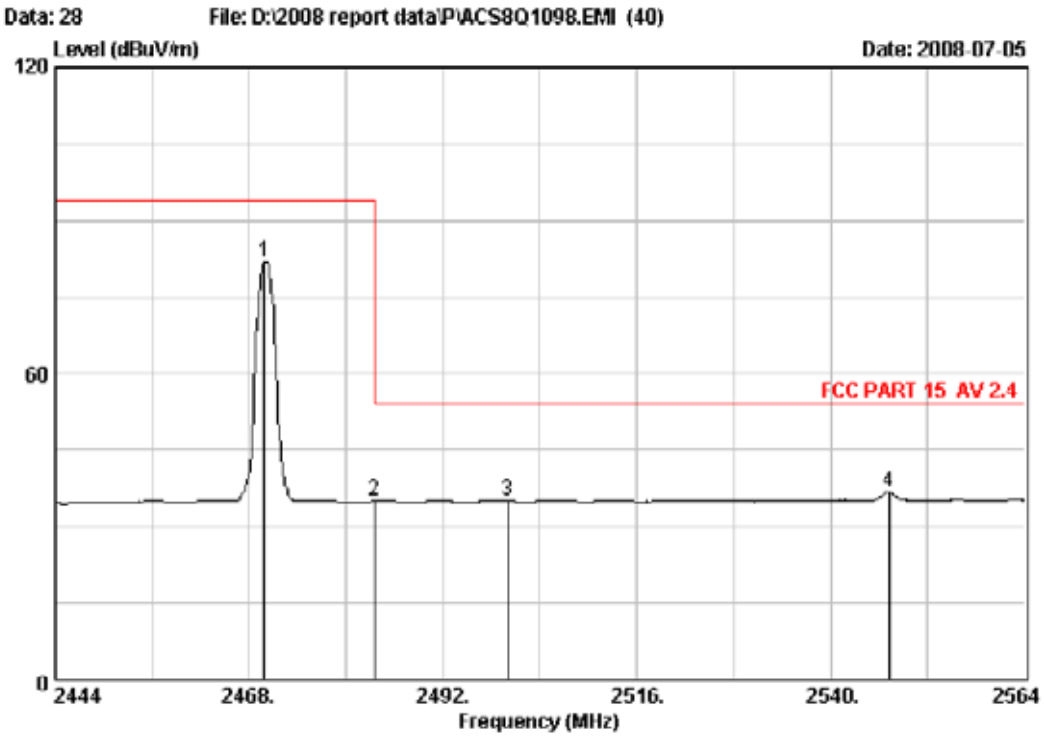


Site no. : 3# Chamber
Dis. / Ant. : 3m 3115 FACTOR
Limit : FCC PART 15 AV 2.4
Env. / Ins. : 23°C/54%
EUT : PS2 Wireless Controller
Power Rating: DC 3.3V
Test Mode : TX Mode in 2470MHz
M/N : PL-6613(Dongle)

Data no. : 28
Ant. pol. : HORIZONTAL
Engineer : Sunny

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Emission Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2469.92 | 29.15 | 6.87 | 35.16 | 80.96 | 81.82 | 94.00 | 12.18 | Average |
| 2 | 2483.50 | 29.19 | 6.87 | 35.16 | 34.07 | 34.97 | 54.00 | 19.03 | Average |
| 3 | 2500.00 | 29.23 | 6.91 | 35.15 | 34.07 | 35.06 | 54.00 | 18.94 | Average |
| 4 | 2547.20 | 29.41 | 6.98 | 35.13 | 35.49 | 36.75 | 54.00 | 17.25 | 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. DEVIATION TO TEST SPECIFICATIONS

[ NONE]