

APPLICATION FOR CERTIFICATION

On Behalf of

Activision Publishing, Inc.

Tony Hawk 2 Wii Controller

Model Number: 83928790

FCC ID: XLU83787790

Prepared for : Activision Publishing, Inc.
3100 Ocean Park Blvd., Santa Monica, CA 90405, U.S.A.

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

Tel: (0755) 26639496
Fax: (0755) 26632877

Report Number : ACS-F10120
Date of Test : Jun.01~13, 2010
Date of Report : Jun.13, 2010

TABLE OF CONTENTS

| Description | Page |
|--|------------|
| FCC Test Report for Declaration of Conformity | |
| 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. Measurement Uncertainty (95% confidence levels, k=2) | 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 15.209 and 15.249 | 4-2 |
| 4.4. EUT Configuration on Test..... | 4-2 |
| 4.5. Operating Condition of EUT..... | 4-2 |
| 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. Limit..... | 6-1 |
| 6.3. Test Results | 6-1 |
| 7. DEVIATION TO TEST SPECIFICATIONS | 7-1 |
| 8. PHOTOGRAPH OF TEST | 8-1 |
| 8.1. Photos of Radiated Emission Test (In Anechoic Chamber)..... | 8-1 |
| 9. PHOTOGRAPH OF EUT | 9-1 |

TEST REPORT CERTIFICATION

Applicant : Activision Publishing, Inc.
Manufacturer : Flextronics Manufacturing (Zhuhai) Co., Ltd.
EUT Description : Tony Hawk 2 Wii Controller
FCC ID : XLU83787790

(A) MODEL NO. : 83928790
(B) SERIAL NO. : N/A
(C) POWER SUPPLY : DC 6V
(D) TEST VOLTAGE : DC 6V

Test Procedure Used:

FCC Rules and Regulations Part 15 Subpart C 2008

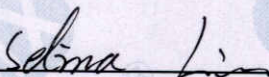
The device described above is tested by AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart C limits both radiated and conducted emissions.

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 these tests. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the 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.01~04, 2010

Prepared by :


Selina Liu / Assistant

Reviewer :


Jamy Yu / Supervisor

Approved & Authorized Signer :



Ken Lu / 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: 15.209 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 |
| N/A is an abbreviation for Not Applicable. | | |

2. GENERAL INFORMATION

2.1. Description of Device (EUT)

| | |
|---------------------|---|
| Product name | : Tony Hawk 2 Wii Controller |
| Model Number | : 83928790 |
| FCC ID | : XLU83787790 |
| Operation frequency | : 2404MHz~2479MHz |
| Modulation mode | : MSK |
| Power Supply | : DC 6V (Note: New batteries were used for all test.) |
| Applicant | : Activision Publishing, Inc. 3100 Ocean Park Blvd., Santa Monica, CA 90405, U.S.A. |
| Manufacturer | : Flextronics Manufacturing (Zhuhai) Co., Ltd. Flextronics Zhuhai Industrial Park, Xin Qing Science & Technology Park, Building 17, Jin An, Doumen, Zhuhai, P.R. China, 519180 |
| Date of Test | : Jun.01~13, 2010 |
| Date of Receipt | : May.26, 2010 |
| Sample Type | : Series production |

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 | : | Mar.31, 2009 File on Federal Communication Commission Registration Number: 90454 |
| 3m & 10m Anechoic Chamber | : | Dec. 30, 2009 File on Federal Communication Commission Registration Number: 794232 |
| EMC Lab. | : | Accredited by DATech, German Registration Number: DAT-P-091/99-01 Feb. 02, 2009 Accredited by NVLAP, USA NVLAP Code: 200372-0 Apr. 01, 2010 |

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

| | |
|--|------------------------------------|
| Uncertainty for Radiation Emission test in 3m chamber | 3.82 dB (Polarize: V) |
| | 4.32 dB (Polarize: H) |
| Uncertainty for Radiation Emission test in 10m chamber (1GHz-18GHz) | 3.56 dB (Distance: 3m Polarize: V) |
| | 3.84 dB (Distance: 3m Polarize: H) |
| Uncertainty for Temperature and humidity test | 2% |
| | 1°C |
| Uncertainty for Bandwidth test | 1×10^{-9} |
| Uncertainty for DC power test | 0.038 % |
| Uncertainty for test site temperature and humidity | 0.6°C |
| | 3% |

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 | Dec.05,09 | 1 Year |
| 2 | EMI Spectrum | Agilent | E4407B | MY41440292 | May.08, 10 | 1 Year |
| 3 | Test Receiver | Rohde & Schwarz | ESVS10 | 834468/011 | May.08, 10 | 1 Year |
| 4 | Amplifier | HP | 8447D | 2648A04738 | May.08, 10 | 1 Year |
| 5 | Bilog Antenna | Schaffner | CBL6111C | 2598 | Dec.14, 09 | 1 Year |
| 6 | RF Cable | MIYAZAKI | 8D-FB | 3# Chamber No.1 | May.08, 10 | 1 Year |
| 7 | Coaxial Switch | Anritsu | MP59B | M73989 | May.08, 10 | 1 Year |

Frequency rang: above 1000MHz

| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|------|-------------------|--------------|-------------|------------|------------|---------------|
| 1 | Spectrum Analyzer | Agilent | E4446A | US44300459 | May.08, 10 | 1 Year |
| 2 | Horn Antenna | EMCO | 3115 | 9510-4580 | Nov.19, 09 | 1.5 Year |
| 3 | Horn Antenna | EMCO | 3116 | 00060089 | Nov.25, 09 | 1.5 Year |
| 4 | Amplifier | Agilent | 8449B | 3008A00863 | May.08, 10 | 1 Year |
| 5 | RF Cable | Hubersuhner | SUCOFLEX102 | 28620/2 | May.08, 10 | 1 Year |
| 6 | RF Cable | Hubersuhner | SUCOFLEX102 | 28618/2 | May.08, 10 | 1 Year |
| 7 | RF Cable | Hubersuhner | SUCOFLEX102 | 28610/2 | May.08, 10 | 1 Year |

4.2. Block Diagram of Test Setup

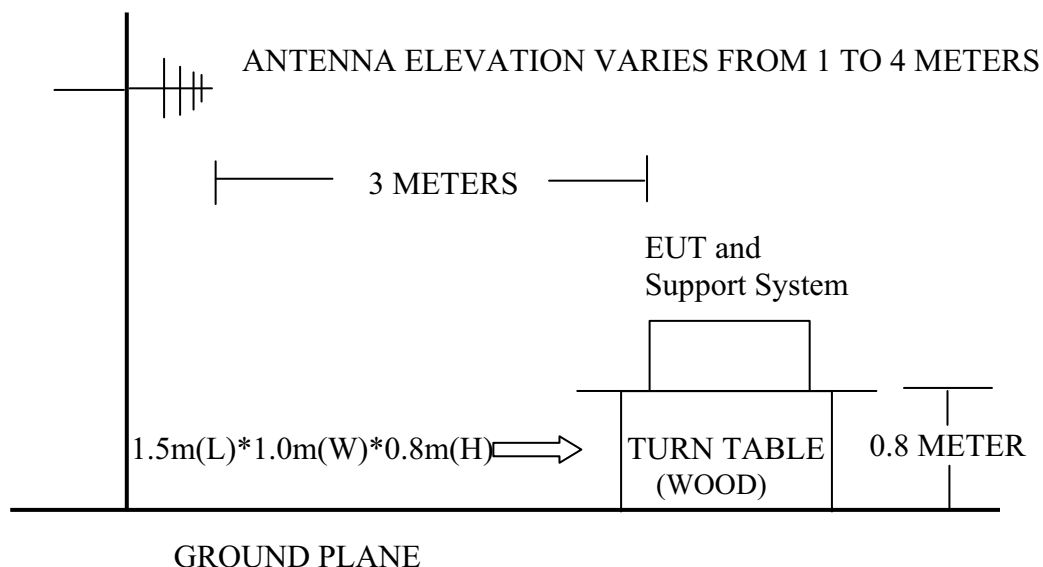
4.2.1. Block Diagram of connection between EUT and simulators



(EUT: Tony Hawk 2 Wii Controller)

4.2.2. Anechoic Chamber Setup Diagram

ANTENNA TOWER



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. Tony Hawk 2 Wii Controller (EUT)

Model Number : 83928790
Serial Number : N/A

4.5. Operating Condition of EUT

- 4.5.1. Setup the EUT as shown in Section 4.2.
- 4.5.2. This EUT is battery powered, and a new battery was used for all the test.
- 4.5.3. Let the EUT worked in test mode (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 ESVS10) is set at 120kHz for frequency range from 30MHz to 1000 MHz.

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

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

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

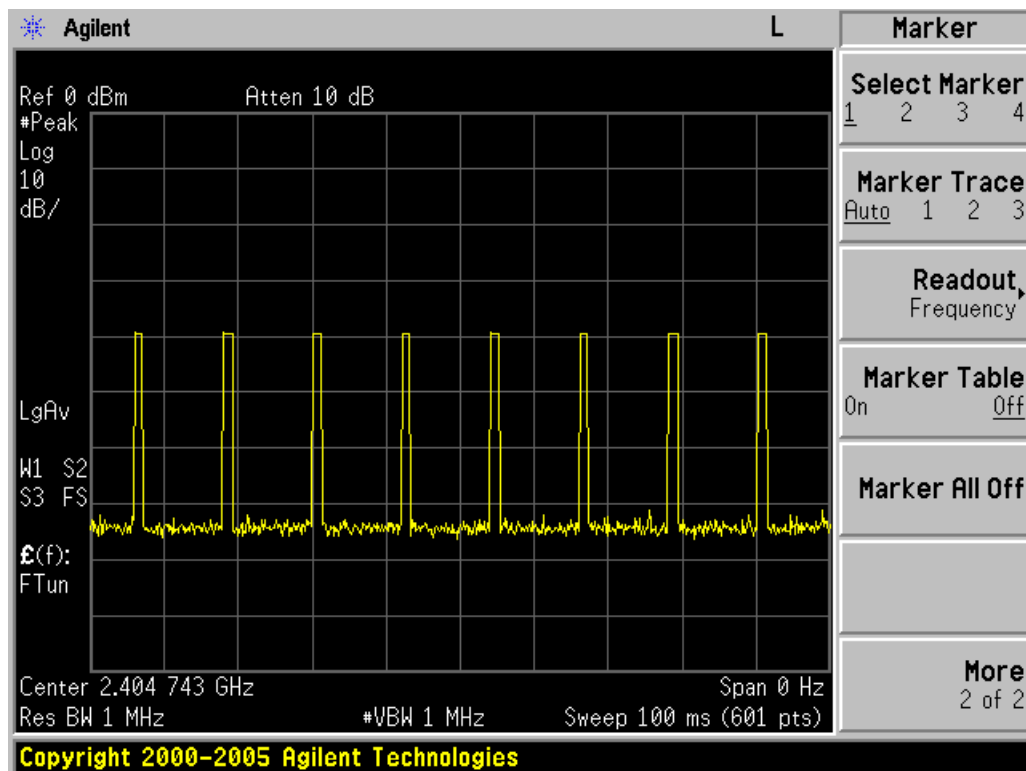
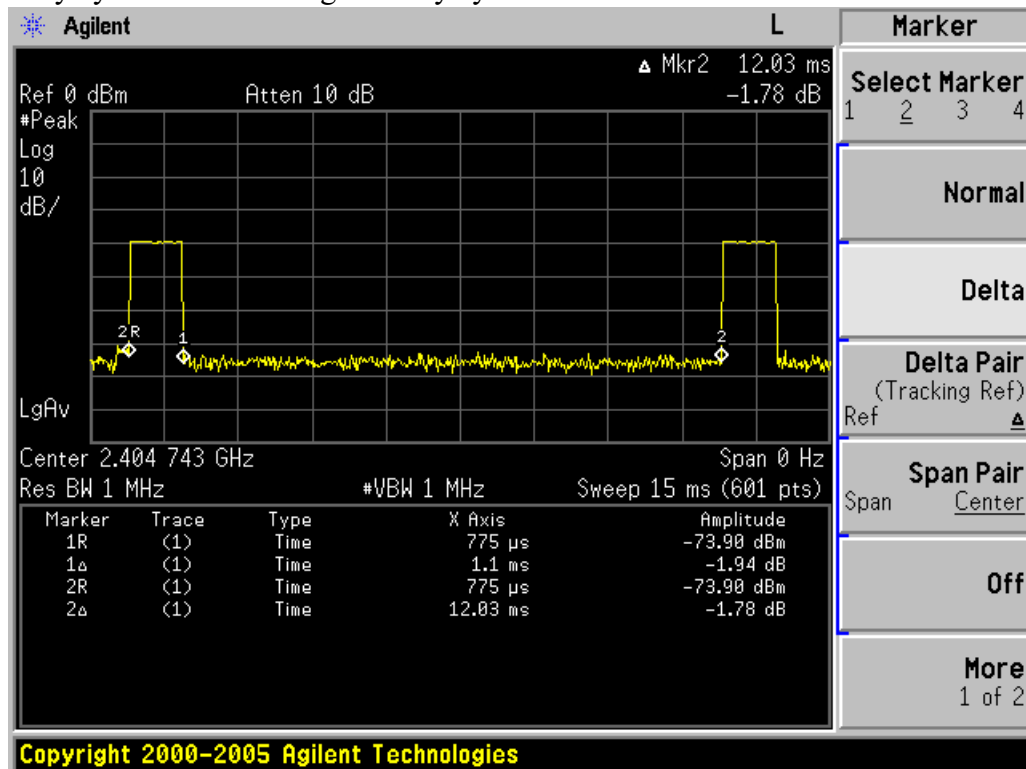
PASS.

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

Note: All the PK measured levels comply with average limit, so the average levels were deemed to comply with average limit.

Duty cycle: $1.1\text{ms}/12.03\text{ms} * 100\% = 9\%$

Duty cycle factor = $20\log(1/\text{duty cycle}) = 20.77$



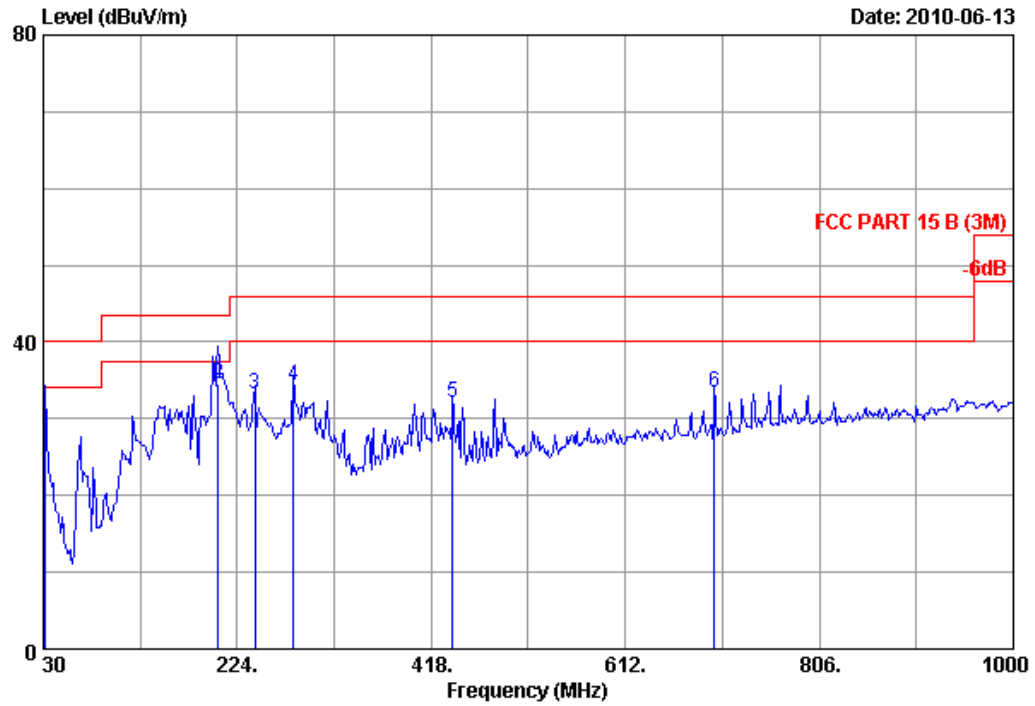
Test Frequency: 30MHz-1000MHz



No.6 Ke Feng Road,Block 52,
ShenZhen Science & Industry Park
Noutou,ShenZhen, GuangDong, China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
Postcode:518057

Data: 1 File: D:\2010 Report Data\A\ACTIVISION\ACS10QH141R1.EM6 (6)

Date: 2010-06-13



Site no. : 3m Chamber Data no. : 1
Dis. / Ant. : 3m 2009 CBL6111C Ant. pol. : HORIZONTAL
Limit : FCC PART 15 B (3M)
Env. / Ins. : 24°C/56% Engineer : Sunny-lu
EUT : Tony Hawk 2 Wii Controller
Power Rating : DC 6V
Test Mode : Tx Mode
M/N:83928790

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|-----|----------------|--------------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 31.940 | 18.88 | 0.53 | 12.32 | 31.73 | 40.00 | 8.27 | QP |
| 2 | 204.600 | 10.10 | 1.34 | 23.04 | 34.48 | 43.50 | 9.02 | QP |
| 3 | 241.460 | 11.93 | 1.58 | 19.79 | 33.30 | 46.00 | 12.70 | QP |
| 4 | 280.260 | 13.20 | 1.69 | 19.47 | 34.36 | 46.00 | 11.64 | QP |
| 5 | 439.340 | 17.23 | 2.06 | 12.76 | 32.05 | 46.00 | 13.95 | QP |
| 6 | 701.240 | 20.79 | 2.80 | 9.80 | 33.39 | 46.00 | 12.61 | QP |

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

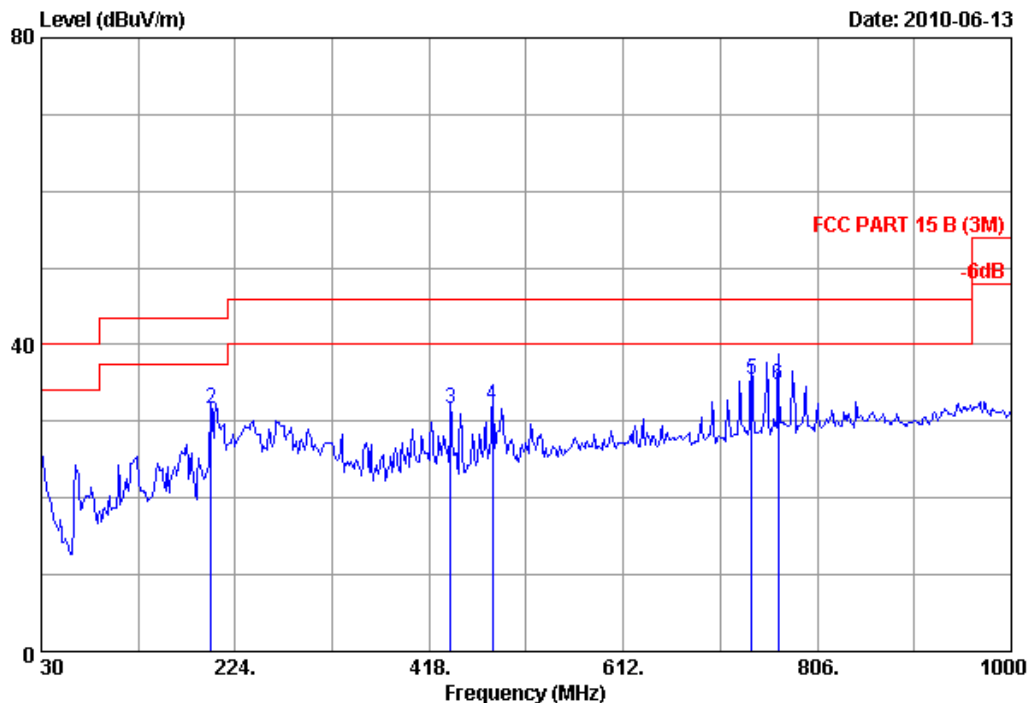


No.6 Ke Feng Road, Block 52,
ShenZhen Science & Industry Park
Noutou, ShenZhen, GuangDong, China
Tel: +86-755-26639495-7
Fax: +86-755-26632877
Postcode: 518057

Data: 2

File: D:\2010 Report Data\AACTMISION\ACS10QH141R1.EM6 (6)

Date: 2010-06-13



Site no. : 3m Chamber Data no. : 2
Dis. / Ant. : 3m 2009 CBL6111C Ant. pol. : VERTICAL
Limit : FCC PART 15 B (3M)
Env. / Ins. : 24°C/56% Engineer : Sunny-lu
EUT : Tony Hawk 2 Wii Controller
Power Rating : DC 6V
Test Mode : Tx Mode
M/N: 83928790

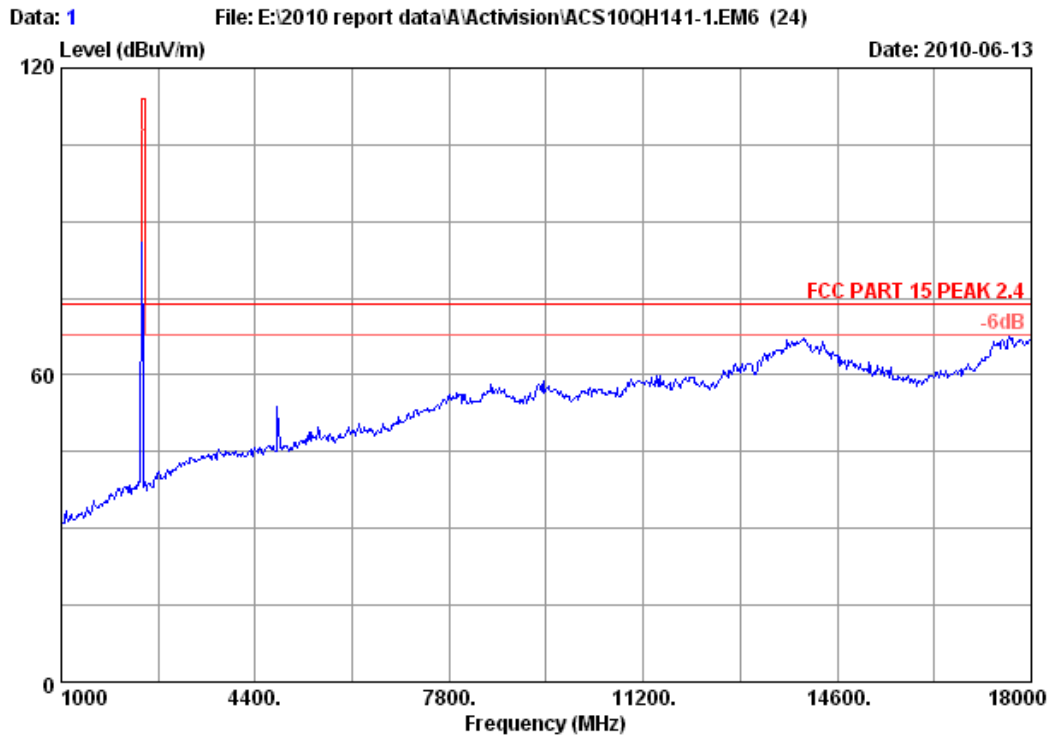
| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|-----|----------------|--------------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 30.000 | 20.00 | 0.52 | 4.33 | 24.85 | 40.00 | 15.15 | QP |
| 2 | 199.750 | 10.00 | 1.30 | 20.26 | 31.56 | 43.50 | 11.94 | QP |
| 3 | 439.340 | 17.23 | 2.06 | 12.27 | 31.56 | 46.00 | 14.44 | QP |
| 4 | 481.050 | 18.11 | 2.19 | 11.76 | 32.06 | 46.00 | 13.94 | QP |
| 5 | 740.040 | 21.80 | 2.90 | 10.78 | 35.48 | 46.00 | 10.52 | QP |
| 6 | 767.200 | 22.07 | 2.97 | 9.69 | 34.73 | 46.00 | 11.27 | QP |

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

Test Frequency: 1GHz-18GHz



No.6 Ke Feng Road,Block 52,
ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
Postcode:518057



| | | | |
|-------------|------------------------------|-----------|-------------|
| Site no. | : 3m Chamber | Data no. | : 1 |
| Dis. / Ant. | : 3m 3115(0911) | Ant. pol. | : VERTICAL |
| Limit | : FCC PART 15 PEAK 2.4 | | |
| Env. / Ins. | : 23°C/54% | Engineer | : Paul Tian |
| EUT | : Tony Hawk 2 Wii Controller | M/N: | 83928790 |
| Power | : DC 6V | | |
| Test mode | : Tx 2404MHz | | |
| M/N | : | | |

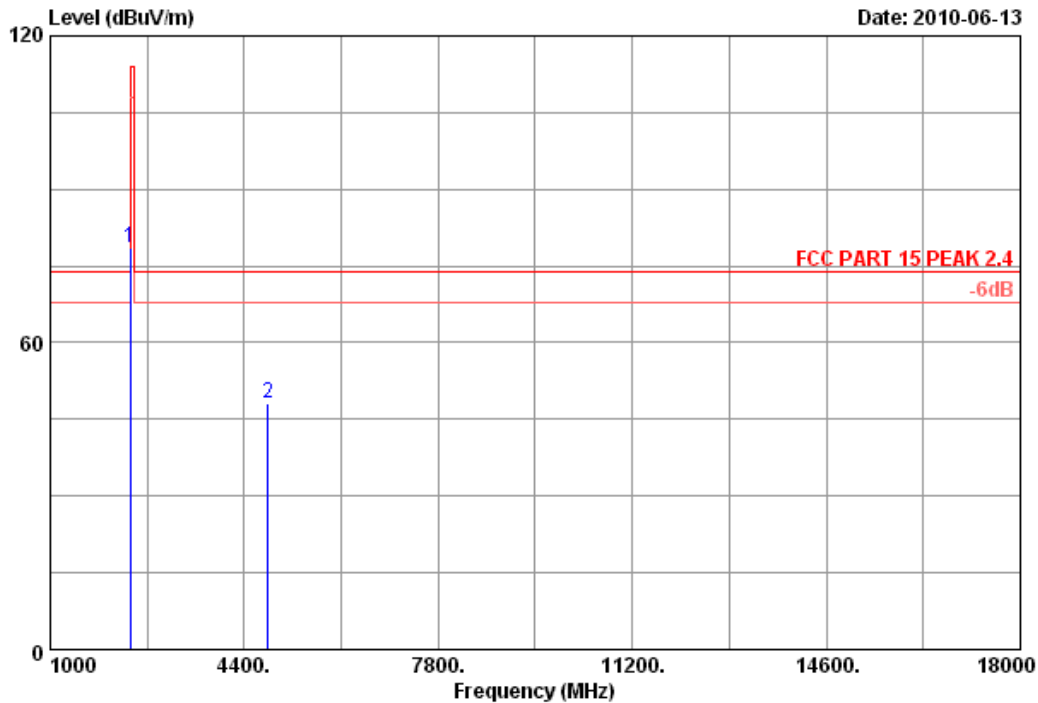


No.6 Ke Feng Road, Block 52,
ShenZhen Science & Industry Park
Noutou, ShenZhen, GuangDong, China
Tel: +86-755-26639495-7
Fax: +86-755-26632877
Postcode: 518057

Data: 2

File: E:\2010 report data\A\Activision\ACS10QH141-1.EM6 (24)

Date: 2010-06-13



Site no. : 3m Chamber Data no. : 2
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
Limit : FCC PART 15 PEAK 2.4
Env. / Ins. : 23°C/54% Engineer : Paul Tian
EUT : Tony Hawk 2 Wii Controller M/N:83928790
Power : DC 6V
Test mode : Tx 2404MHz
M/N :

| | 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 2404.000 | 29.45 | 8.72 | 35.95 | 76.29 | 78.51 | 114.00 | 35.49 | Peak | |
| 2 4808.000 | 34.30 | 12.35 | 35.37 | 36.74 | 48.02 | 74.00 | 25.98 | 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.

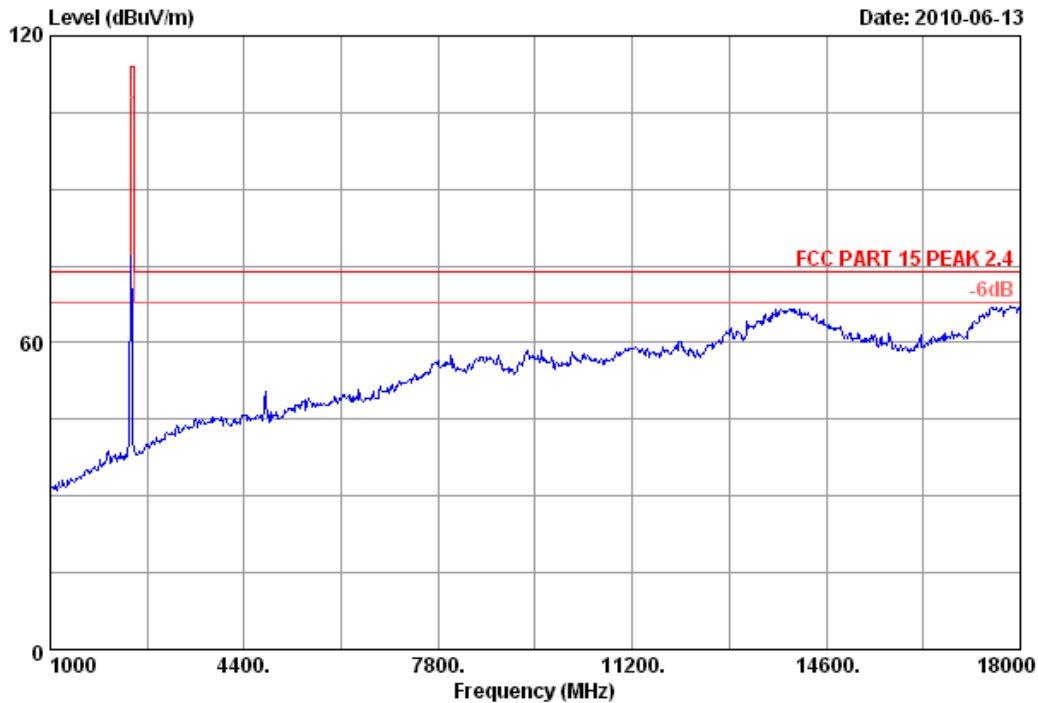


No.6 Ke Feng Road, Block 52,
ShenZhen Science & Industry Park
Noutou, ShenZhen, Guangdong, China
Tel: +86-755-26639495-7
Fax: +86-755-26632877
Postcode: 518057

Data: 3

File: E:\2010 report data\A\Activision\ACS10QH141-1.EM6 (24)

Date: 2010-06-13



| | | | |
|-------------|---|-----------|--------------|
| Site no. | : 3m Chamber | Data no. | : 3 |
| Dis. / Ant. | : 3m 3115(0911) | Ant. pol. | : HORIZONTAL |
| Limit | : FCC PART 15 PEAK 2.4 | | |
| Env. / Ins. | : 23°C/54% | Engineer | : Paul Tian |
| EUT | : Tony Hawk 2 Wii Controller M/N:83928790 | | |
| Power | : DC 6V | | |
| Test mode | : Tx 2404MHz | | |
| M/N | : | | |

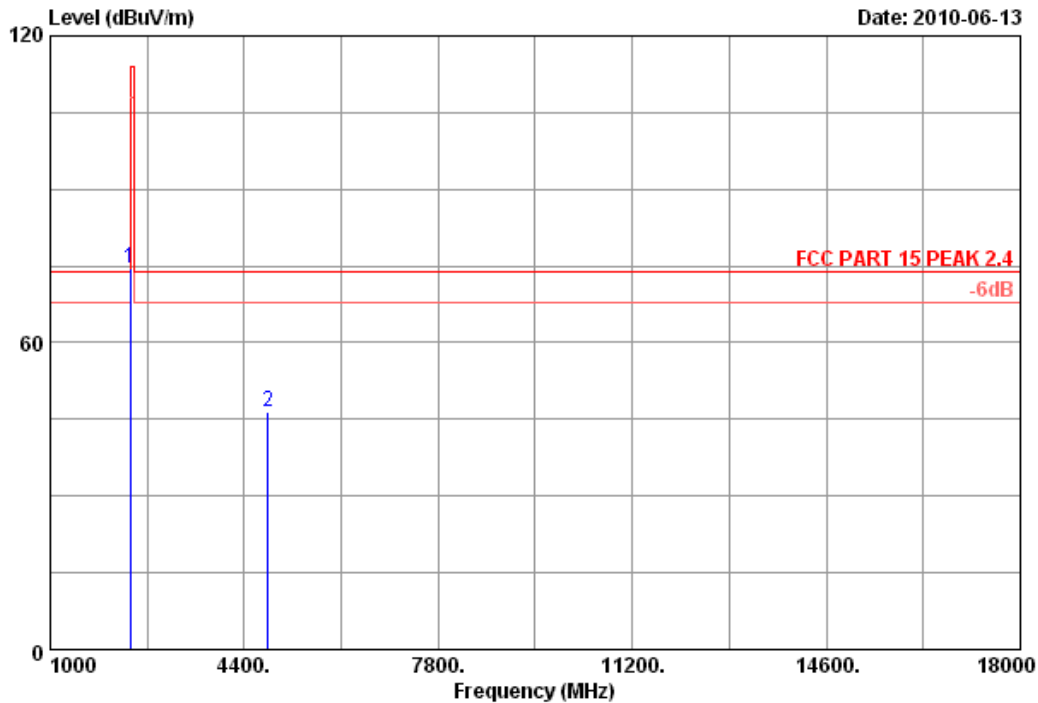


No.6 Ke Feng Road,Block 52,
ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
Postcode:518057

Data: 4

File: E:\2010 report data\A\Activision\ACS10QH141-1.EM6 (24)

Date: 2010-06-13



Site no. : 3m Chamber Data no. : 4
Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
Limit : FCC PART 15 PEAK 2.4
Env. / Ins. : 23°C/54% Engineer : Paul Tian
EUT : Tony Hawk 2 Wii Controller M/N:83928790
Power : DC 6V
Test mode : Tx 2404MHz
M/N :

| | 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 2404.000 | 29.45 | 8.72 | 35.95 | 72.19 | 74.41 | 114.00 | 39.59 | Peak | |
| 2 4808.000 | 34.30 | 12.35 | 35.37 | 35.23 | 46.51 | 74.00 | 27.49 | 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.

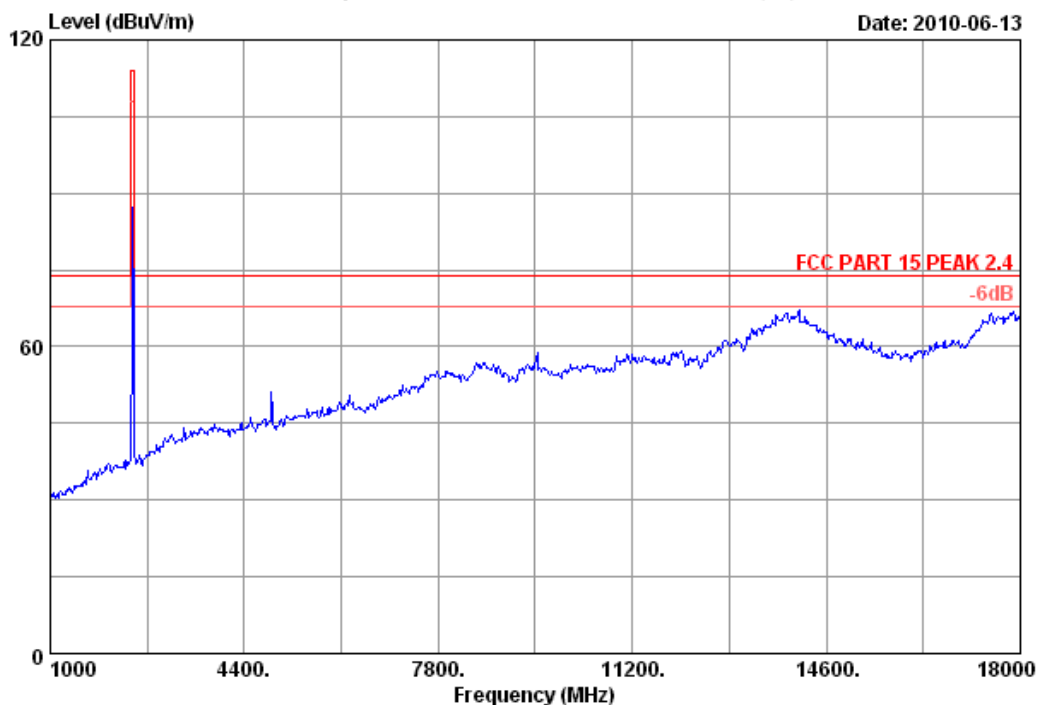


No.6 Ke Feng Road,Block 52,
ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
Postcode:518057

Data: 7

File: E:\2010 report data\A\Activision\ACS10QH141-1.EM6 (24)

Date: 2010-06-13



| | | | |
|-------------|---|-----------|-------------|
| Site no. | : 3m Chamber | Data no. | : 7 |
| Dis. / Ant. | : 3m 3115(0911) | Ant. pol. | : VERTICAL |
| Limit | : FCC PART 15 PEAK 2.4 | | |
| Env. / Ins. | : 23°C/54% | Engineer | : Paul Tian |
| EUT | : Tony Hawk 2 Wii Controller M/N:83928790 | | |
| Power | : DC 6V | | |
| Test mode | : Tx 2441MHz | | |
| M/N | : | | |

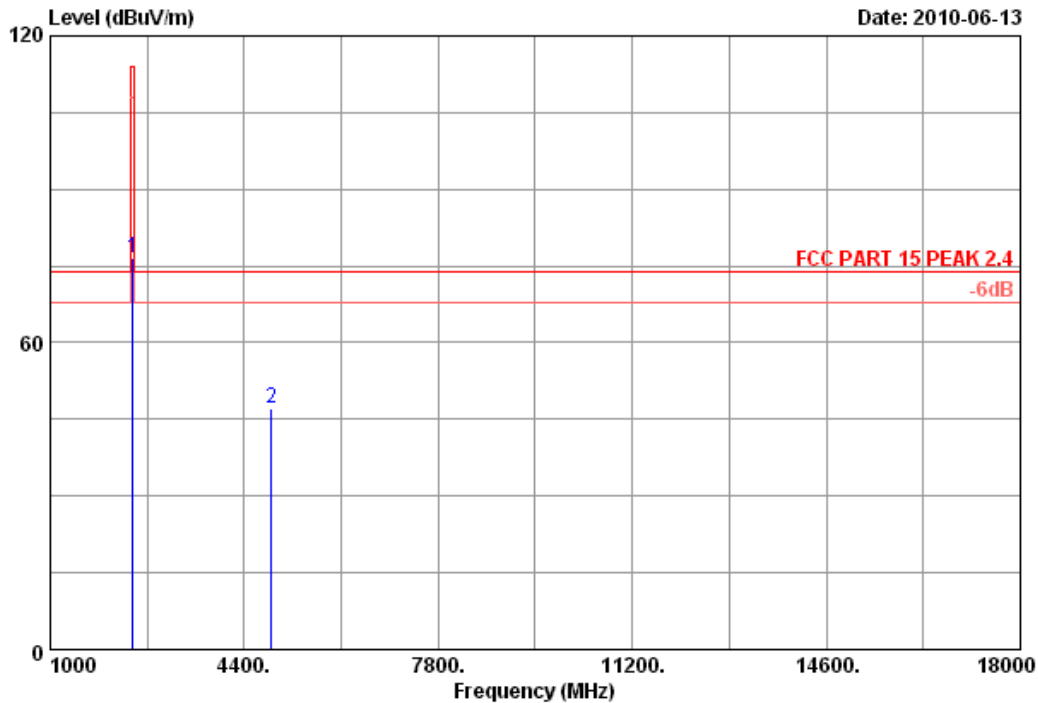


No.6 Ke Feng Road, Block 52,
ShenZhen Science & Industry Park
Noutou, ShenZhen, GuangDong, China
Tel: +86-755-26639495-7
Fax: +86-755-26632877
Postcode: 518057

Data: 8

File: E:\2010 report data\A\Activision\ACS10QH141-1.EM6 (24)

Date: 2010-06-13



Site no. : 3m Chamber Data no. : 8
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
Limit : FCC PART 15 PEAK 2.4
Env. / Ins. : 23°C/54% Engineer : Paul Tian
EUT : Tony Hawk 2 Wii Controller M/N:83928790
Power : DC 6V
Test mode : Tx 2441MHz
M/N :

| | 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 2441.000 | 29.47 | 8.77 | 36.06 | 74.50 | 76.68 | 114.00 | 37.32 | Peak | |
| 2 4882.000 | 34.41 | 12.44 | 35.36 | 35.50 | 46.99 | 74.00 | 27.01 | Peak | |

Remarks:

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

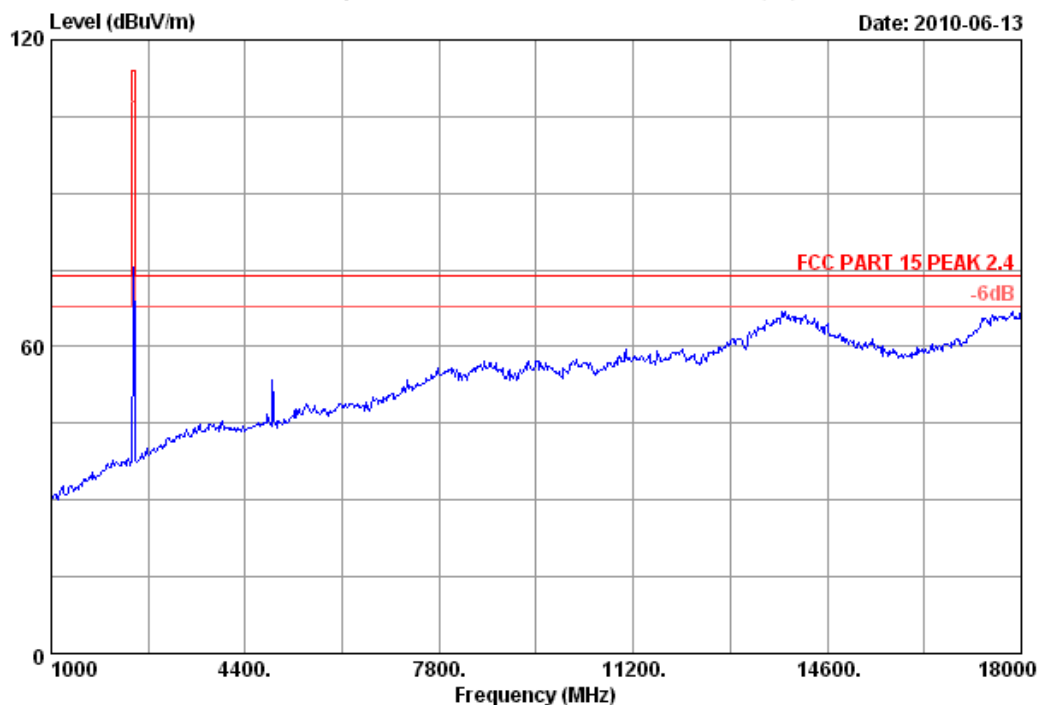


No.6 Ke Feng Road, Block 52,
ShenZhen Science & Industry Park
Noutou, ShenZhen, Guangdong, China
Tel: +86-755-26639495-7
Fax: +86-755-26632877
Postcode: 518057

Data: 9

File: E:\2010 report data\A\Activision\ACS10QH141-1.EM6 (24)

Date: 2010-06-13



| | | | |
|-------------|---|-----------|--------------|
| Site no. | : 3m Chamber | Data no. | : 9 |
| Dis. / Ant. | : 3m 3115(0911) | Ant. pol. | : HORIZONTAL |
| Limit | : FCC PART 15 PEAK 2.4 | | |
| Env. / Ins. | : 23°C/54% | Engineer | : Paul Tian |
| EUT | : Tony Hawk 2 Wii Controller M/N:83928790 | | |
| Power | : DC 6V | | |
| Test mode | : Tx 2441MHz | | |
| M/N | : | | |

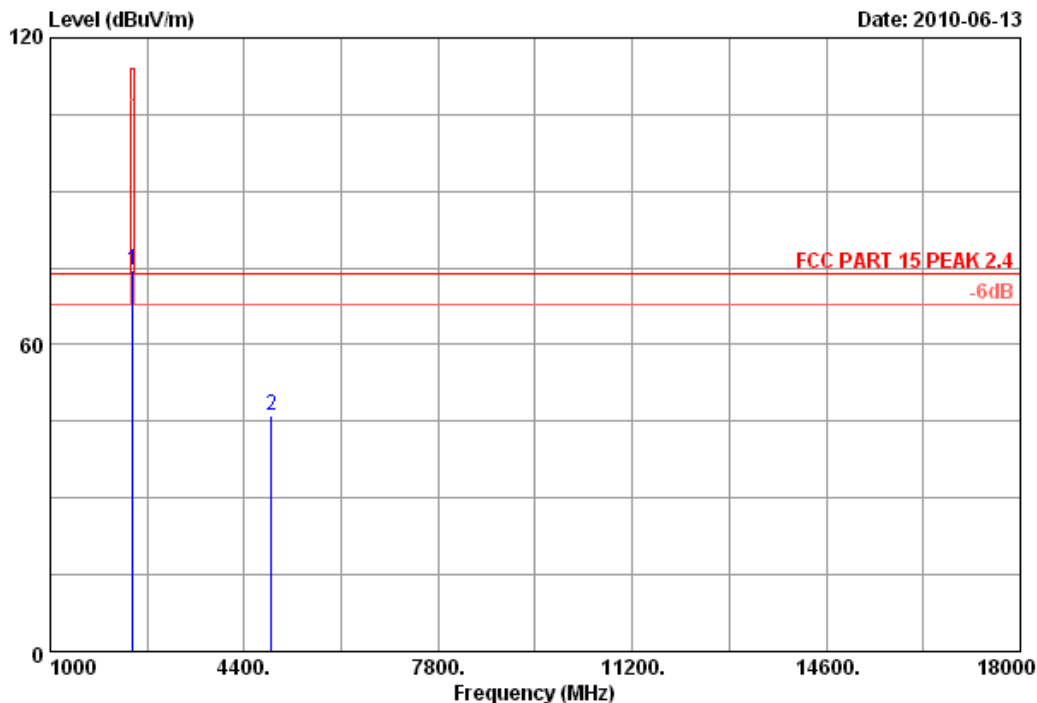


No.6 Ke Feng Road,Block 52,
ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
Postcode:518057

Data: 10

File: E:\2010 report data\A\Activision\ACS10QH141-1.EM6 (24)

Date: 2010-06-13



Site no. : 3m Chamber Data no. : 10
Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
Limit : FCC PART 15 PEAK 2.4
Env. / Ins. : 23°C/54% Engineer : Paul Tian
EUT : Tony Hawk 2 Wii Controller M/N:83928790
Power : DC 6V
Test mode : Tx 2441MHz
M/N :

| | 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 2441.000 | 29.47 | 8.77 | 36.06 | 72.50 | 74.68 | 114.00 | 39.32 | Peak | |
| 2 4882.000 | 34.41 | 12.44 | 35.36 | 34.75 | 46.24 | 74.00 | 27.76 | 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.

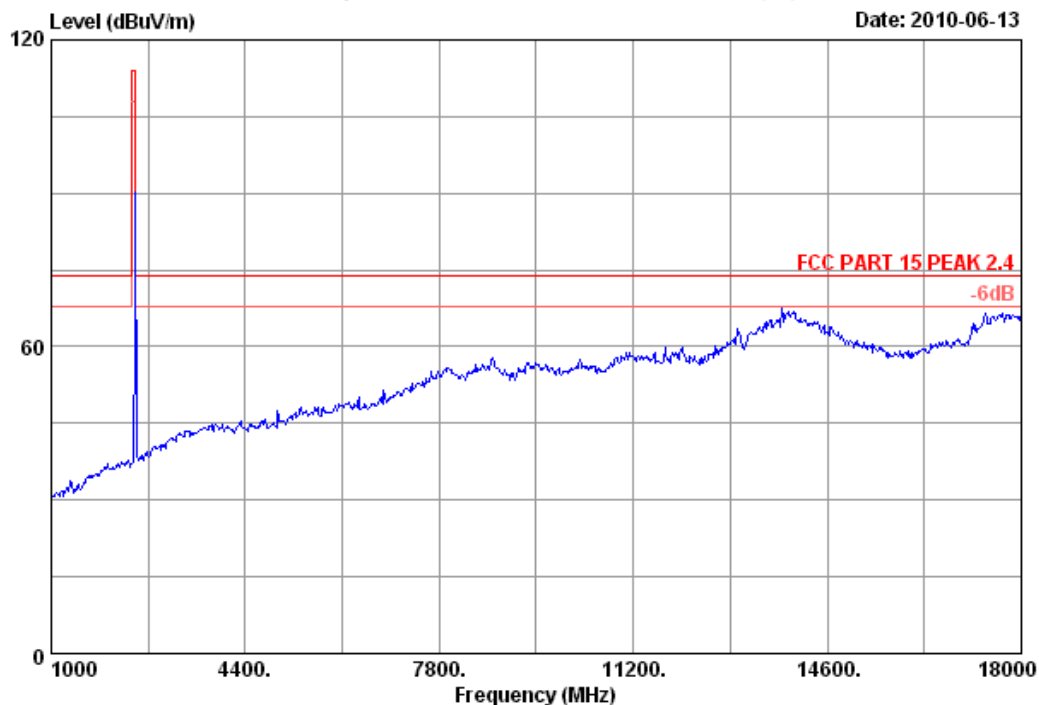


No.6 Ke Feng Road, Block 52,
ShenZhen Science & Industry Park
Noutou, ShenZhen, GuangDong, China
Tel: +86-755-26639495-7
Fax: +86-755-26632877
Postcode: 518057

Data: 11

File: E:\2010 report data\A\Activision\ACS10QH141-1.EM6 (24)

Date: 2010-06-13



| | | | |
|-------------|---|-----------|--------------|
| Site no. | : 3m Chamber | Data no. | : 11 |
| Dis. / Ant. | : 3m 3115(0911) | Ant. pol. | : HORIZONTAL |
| Limit | : FCC PART 15 PEAK 2.4 | | |
| Env. / Ins. | : 23°C/54% | Engineer | : Paul Tian |
| EUT | : Tony Hawk 2 Wii Controller M/N:83928790 | | |
| Power | : DC 6V | | |
| Test mode | : Tx 2479MHz | | |
| M/N | : | | |

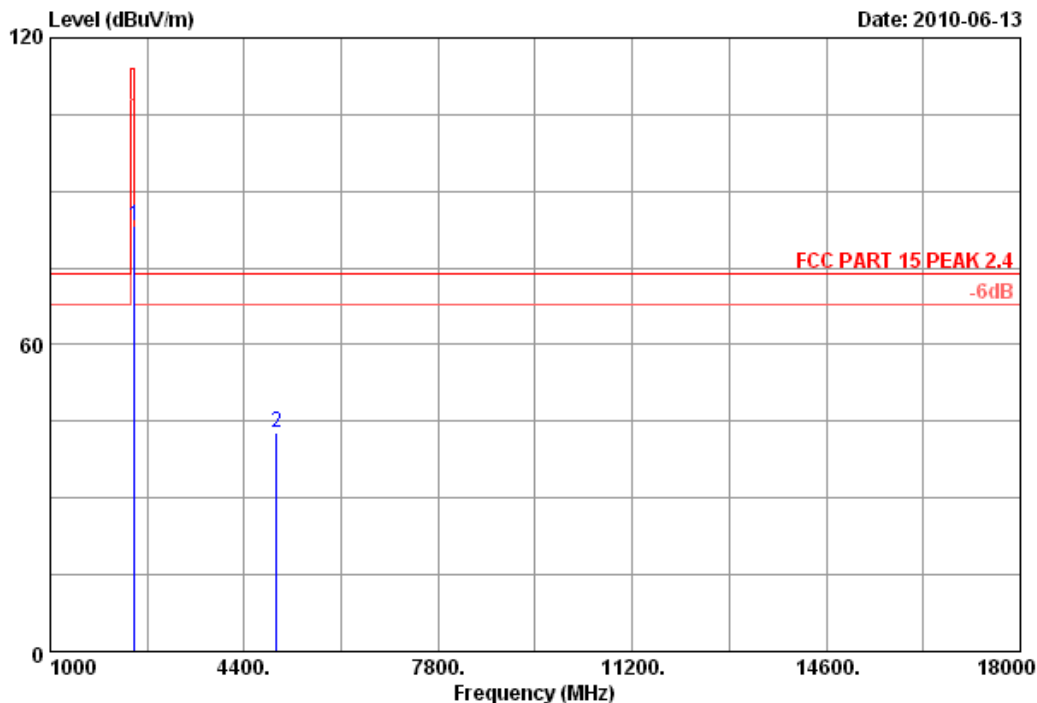


No.6 Ke Feng Road,Block 52,
ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
Postcode:518057

Data: 12

File: E:\2010 report data\A\Activision\ACS10QH141-1.EM6 (24)

Date: 2010-06-13



Site no. : 3m Chamber Data no. : 12
Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
Limit : FCC PART 15 PEAK 2.4
Env. / Ins. : 23°C/54% Engineer : Paul Tian
EUT : Tony Hawk 2 Wii Controller M/N:83928790
Power : DC 6V
Test mode : Tx 2479MHz
M/N :

| | 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 2479.000 | 29.49 | 8.87 | 35.97 | 80.69 | 83.08 | 114.00 | 30.92 | Peak | |
| 2 4958.000 | 34.54 | 12.53 | 35.37 | 31.20 | 42.90 | 74.00 | 31.10 | 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.

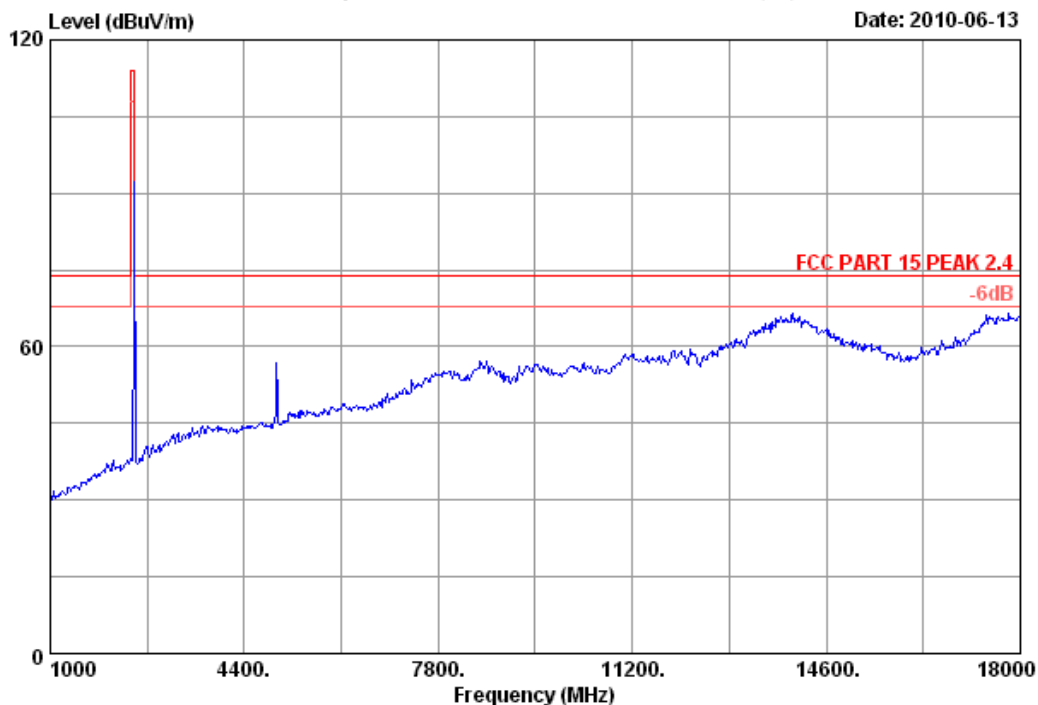


No.6 Ke Feng Road,Block 52,
ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
Postcode:518057

Data: 13

File: E:\2010 report data\A\Activision\ACS10QH141-1.EM6 (24)

Date: 2010-06-13



| | | | |
|-------------|---|-----------|-------------|
| Site no. | : 3m Chamber | Data no. | : 13 |
| Dis. / Ant. | : 3m 3115(0911) | Ant. pol. | : VERTICAL |
| Limit | : FCC PART 15 PEAK 2.4 | | |
| Env. / Ins. | : 23°C/54% | Engineer | : Paul Tian |
| EUT | : Tony Hawk 2 Wii Controller M/N:83928790 | | |
| Power | : DC 6V | | |
| Test mode | : Tx 2479MHz | | |
| M/N | : | | |

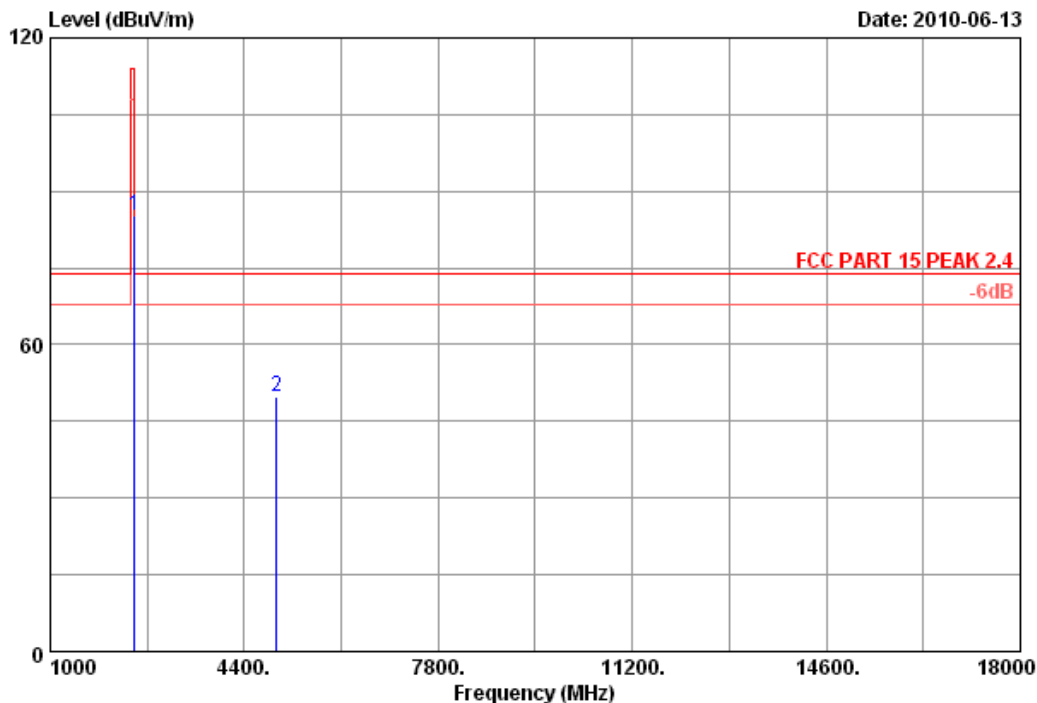


No.6 Ke Feng Road, Block 52,
ShenZhen Science & Industry Park
Noutou, ShenZhen, GuangDong, China
Tel: +86-755-26639495-7
Fax: +86-755-26632877
Postcode: 518057

Data: 14

File: E:\2010 report data\A\Activision\ACS10QH141-1.EM6 (24)

Date: 2010-06-13



Site no. : 3m Chamber Data no. : 14
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
Limit : FCC PART 15 PEAK 2.4
Env. / Ins. : 23°C/54% Engineer : Paul Tian
EUT : Tony Hawk 2 Wii Controller M/N:83928790
Power : DC 6V
Test mode : Tx 2479MHz
M/N :

| | 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 2479.000 | 29.49 | 8.87 | 35.97 | 82.89 | 85.28 | 114.00 | 28.72 | Peak | |
| 2 4958.400 | 34.54 | 12.53 | 35.37 | 37.95 | 49.65 | 74.00 | 24.35 | 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.

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.08, 10 | 1 Year |
| 2 | Horn Antenna | EMCO | 3115 | 9607-4877 | Nov.25, 09 | 1.5 Year |
| 3 | Amplifier | Agilent | 8449B | 3008A00863 | May.08, 10 | 1 Year |
| 4 | RF Cable | Hubersuhner | SUCOFLEX102 | 28620/2 | Nov.28, 10 | 1 Year |
| 5 | RF Cable | Hubersuhner | SUCOFLEX102 | 29091/2 | Nov.28, 10 | 1 Year |
| 6 | RF Cable | Hubersuhner | SUCOFLEX102 | 28618/2 | May.08, 10 | 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=1MHz ;VBW=3MHz, PK detector, Sweep=AUTO
 - (b) This device is pulse modulated, a duty cycle factor was used to calculate average level based measured peak level.

5.4. Test Results

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

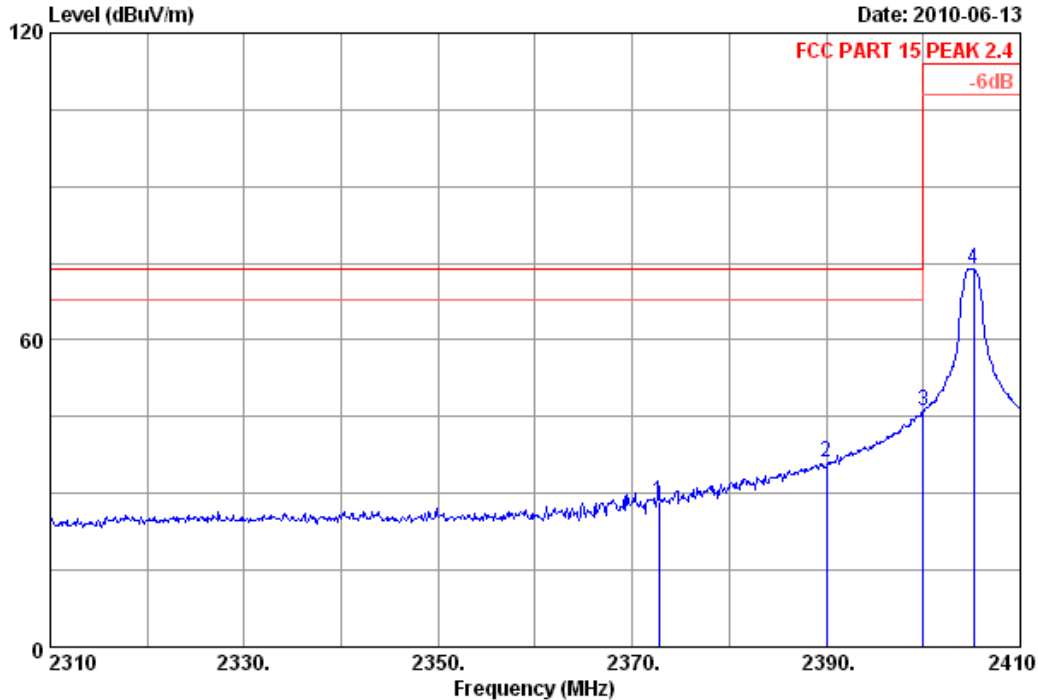
All the emissions outside operation frequency band comply with 15.209 limit.

Note: For the PK measured levels comply with average limit, the average levels were deemed to comply with average limit.



No.6 Ke Feng Road, Block 52,
Shenzhen Science & Industry Park
Noutou, Shenzhen, Guangdong, China
Tel: +86-755-26639495-7
Fax: +86-755-26632877
Postcode: 518057

Data: 5 File: E:\2010 report data\A\Activision\ACS10QH141-1.EM6 (24)



Site no. : 3m Chamber Data no. : 5
Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
Limit : FCC PART 15 PEAK 2.4
Env. / Ins. : 23°C/54% Engineer : Paul Tian
EUT : Tony Hawk 2 Wii Controller M/N:83928790
Power : DC 6V
Test mode : Tx 2404MHz
M/N :

| | 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 | 2372.700 | 29.43 | 8.67 | 36.00 | 26.34 | 28.44 | 74.00 | 45.56 | Peak |
| 2 | 2390.000 | 29.44 | 8.67 | 36.09 | 33.91 | 35.93 | 74.00 | 38.07 | Peak |
| 3 | 2400.000 | 29.44 | 8.72 | 36.09 | 43.91 | 45.98 | 74.00 | 28.02 | Peak |
| 4 | 2405.200 | 29.45 | 8.72 | 35.95 | 71.59 | 73.81 | 114.00 | 40.19 | Peak |

Remarks:

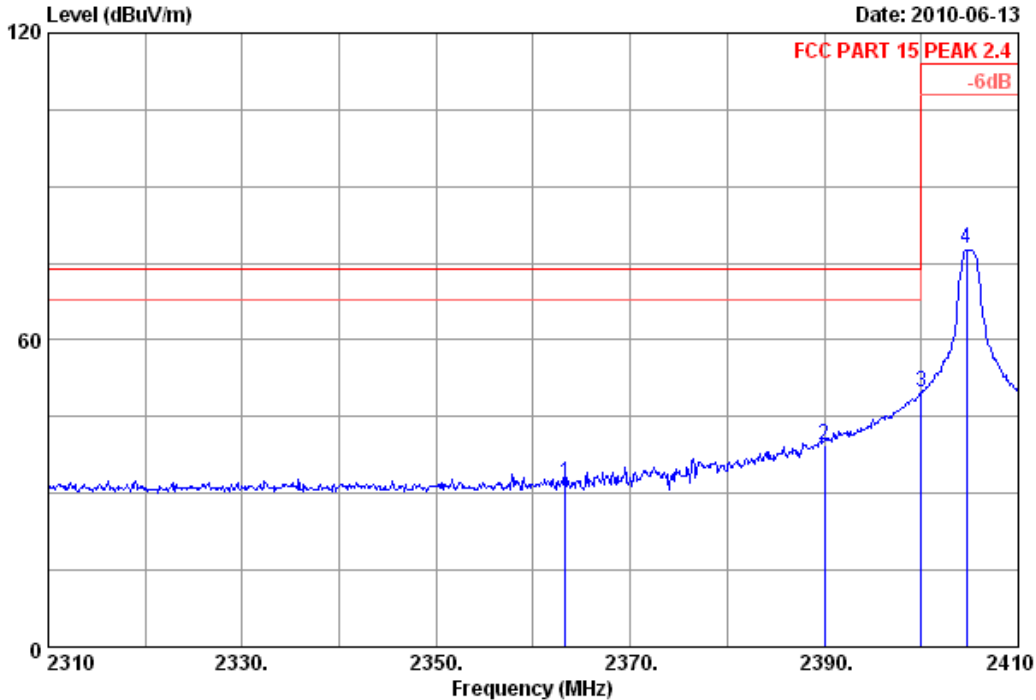
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



No.6 Ke Feng Road,Block 52,
ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
Postcode:518057

Data: 6 File: E:\2010 report data\A\Activision\ACS10QH141-1.EM6 (24)

Date: 2010-06-13



Site no. : 3m Chamber Data no. : 6
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
Limit : FCC PART 15 PEAK 2.4
Env. / Ins. : 23°C/54% Engineer : Paul Tian
EUT : Tony Hawk 2 Wii Controller M/N:83928790
Power : DC 6V
Test mode : Tx 2404MHz
M/N :

| | 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 | 2363.300 | 29.42 | 8.62 | 35.91 | 30.02 | 32.15 | 74.00 | 41.85 | Peak |
| 2 | 2390.000 | 29.44 | 8.67 | 36.09 | 37.46 | 39.48 | 74.00 | 34.52 | Peak |
| 3 | 2400.000 | 29.44 | 8.72 | 36.09 | 47.76 | 49.83 | 74.00 | 24.17 | Peak |
| 4 | 2404.700 | 29.45 | 8.72 | 35.95 | 75.79 | 78.01 | 114.00 | 35.99 | 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.

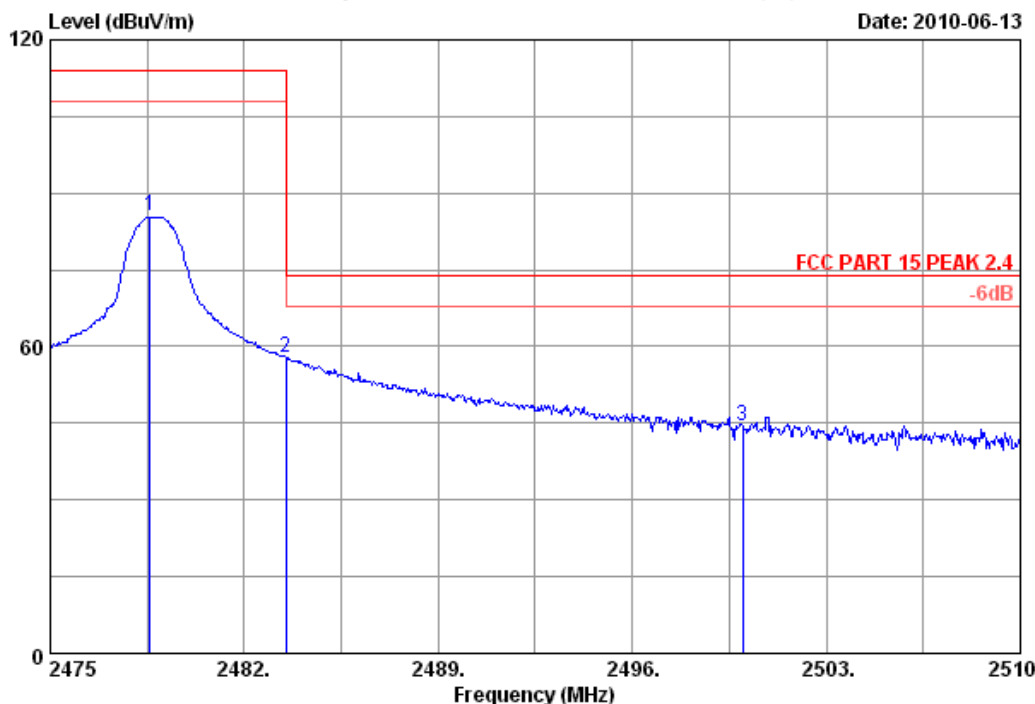


No.6 Ke Feng Road,Block 52,
ShenZhen Science & Industry Park
Noutou, ShenZhen, GuangDong, China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
Postcode:518057

Data: 15

File: E:\2010 report data\A\Activision\ACS100H141-1.EM6 (24)

Date: 2010-06-13



Site no. : 3m Chamber Data no. : 15
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
Limit : FCC PART 15 PEAK 2.4
Env. / Ins. : 23°C/54% Engineer : Paul Tian
EUT : Tony Hawk 2 Wii Controller M/N:83928790
Power : DC 6V
Test mode : Tx 2479MHz
M/N :

| | Ant. | Cable | Amp. | | Emission | | | | |
|------------|--------|-------|--------|---------|----------|----------|--------|--------|--|
| Freq. | Factor | loss | Factor | Reading | Level | Limits | Margin | Remark | |
| (MHz) | (dB/m) | (dB) | (dB) | (dBuV) | (dBuV/m) | (dBuV/m) | (dB) | | |
| 1 2478.605 | 29.49 | 8.87 | 35.97 | 83.09 | 85.48 | 114.00 | 28.52 | Peak | |
| 2 2483.500 | 29.49 | 8.87 | 35.97 | 55.38 | 57.77 | 74.00 | 16.23 | Peak | |
| 3 2500.000 | 29.50 | 8.92 | 36.00 | 41.89 | 44.31 | 74.00 | 29.69 | Peak | |

Remarks:

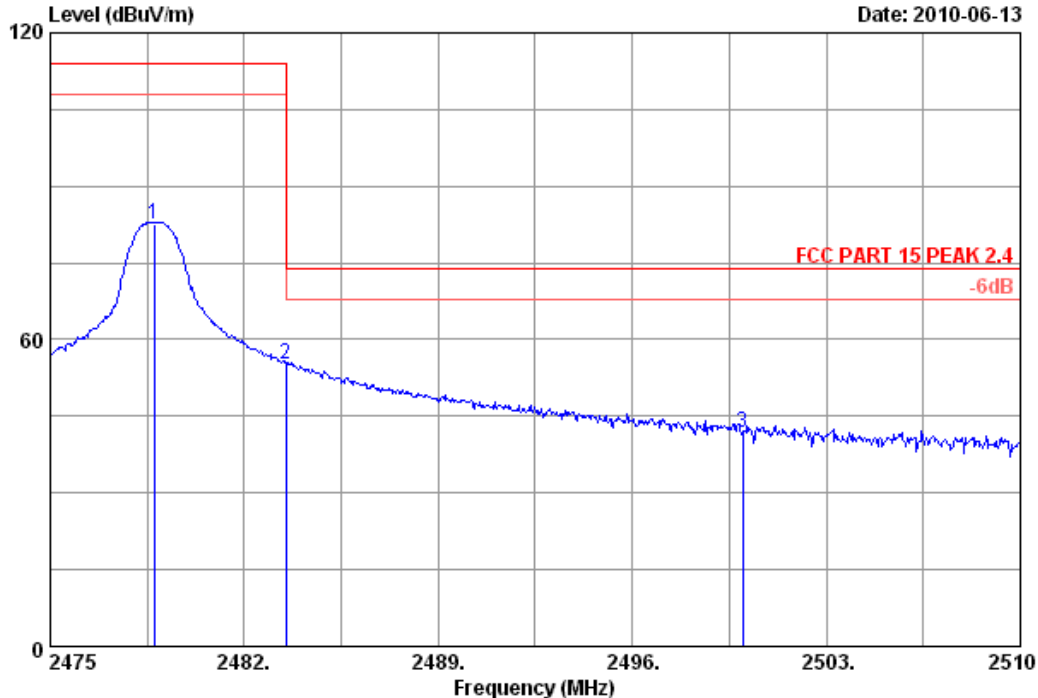
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

| Frequency (MHz) | PK measured level (dBuV/m) | Duty cycle factor (dB) | Average level (dBuV/m) | Average Limit (dBuV/m) | Result |
|-----------------|----------------------------|------------------------|------------------------|------------------------|--------|
| 2483.5 | 57.77 | 20.77 | 37.00 | 54 | PASS |



No.6 Ke Feng Road,Block 52,
ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
Postcode:518057

Data: 16 File: E:\2010 report data\Activision\ACS10QH141-1.EM6 (24)



Site no. : 3m Chamber Data no. : 16
Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
Limit : FCC PART 15 PEAK 2.4
Env. / Ins. : 23°C/54% Engineer : Paul Tian
EUT : Tony Hawk 2 Wii Controller M/N:83928790
Power : DC 6V
Test mode : Tx 2479MHz
M/N :

| | Freq. | Ant. | Cable | Amp. | | Emission | | | |
|---|----------|--------|-------|--------|---------|----------|----------|--------|--------|
| | (MHz) | Factor | loss | Factor | Reading | Level | Limits | Margin | Remark |
| | | (dB/m) | (dB) | (dB) | (dBuV) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 2478.745 | 29.49 | 8.87 | 35.97 | 80.19 | 82.58 | 114.00 | 31.42 | Peak |
| 2 | 2483.500 | 29.49 | 8.87 | 35.97 | 52.89 | 55.28 | 74.00 | 18.72 | Peak |
| 3 | 2500.000 | 29.50 | 8.92 | 36.00 | 39.47 | 41.89 | 74.00 | 32.11 | Peak |

Remarks:

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

| Frequency (MHz) | PK measured level (dBuV/m) | Duty cycle factor (dB) | Average level (dBuV/m) | Average Limit (dBuV/m) | Result |
|--------------------|-------------------------------|---------------------------|---------------------------|---------------------------|--------|
| 2483.5 | 55.28 | 20.77 | 34.51 | 54 | PASS |

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,08, 10 | 1 Year |
| 2 | Attenuator | Agilent | 8491B | MY39262165 | May,08, 10 | 1 Year |
| 3 | RF Cable | Hubersuhner | SUCOFLEX102 | 28618/2 | May,08, 10 | 1 Year |

6.2. Limit

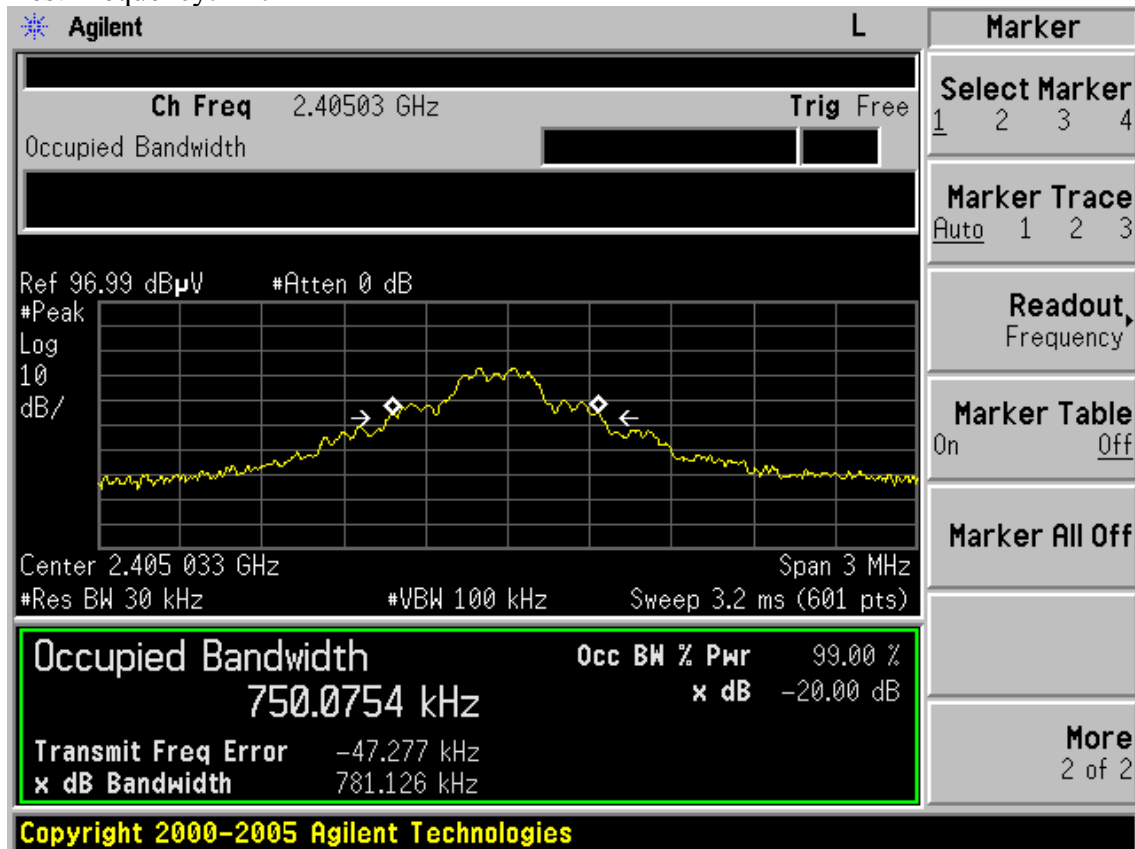
Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific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

6.3. Test Results

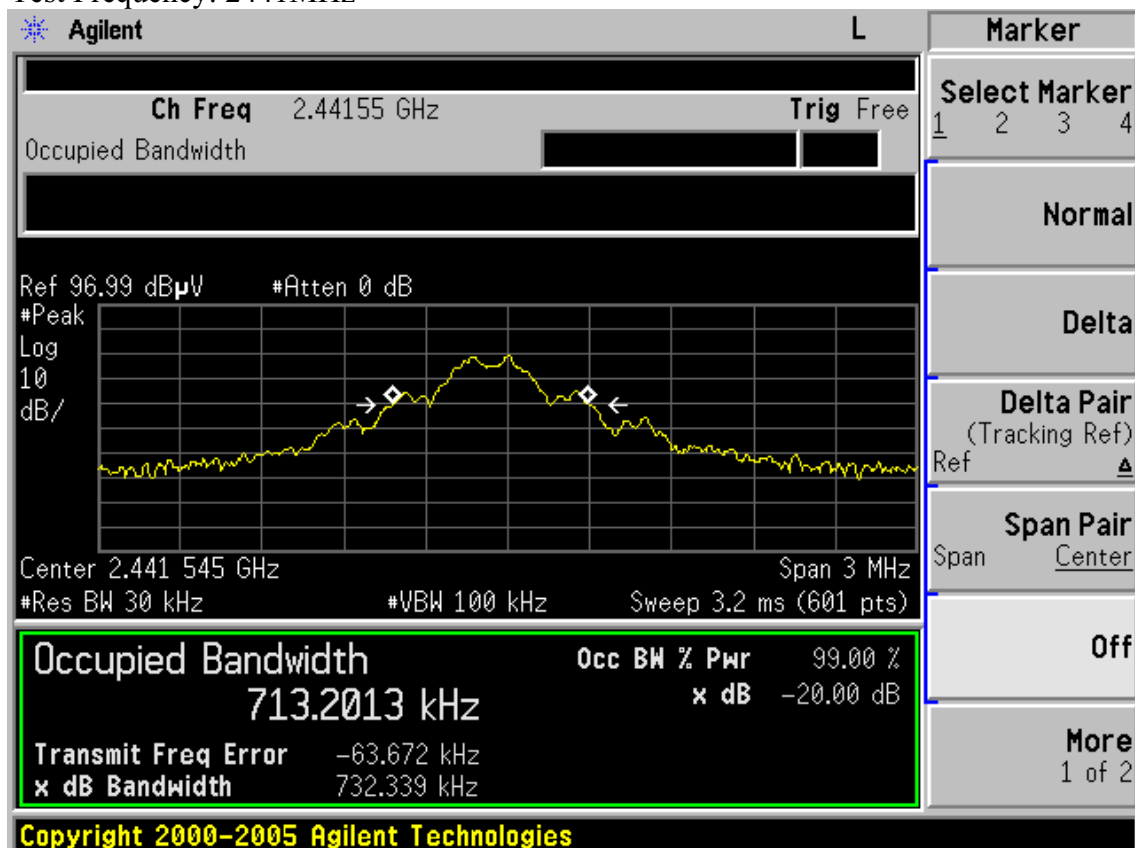
| | | |
|---------------------------------|--------------------|-------------------|
| EUT: Tony Hawk 2 Wii Controller | | |
| M/N :83928790 | | |
| Test date:2010-06-04 | Pressure:100.6 kpa | Humidity: 52 % |
| Tested by: Paul Tian | Test site:RF site | Temperature:25 °C |

| Frequency (MHz) | 20 dB bandwidth (KHz) | Limit (KHz) |
|-----------------|-------------------------|-------------|
| 2404 | 781.126 | >500 |
| 2441 | 732.339 | >500 |
| 2479 | 754.541 | >500 |
| Conclusion:PASS | | |

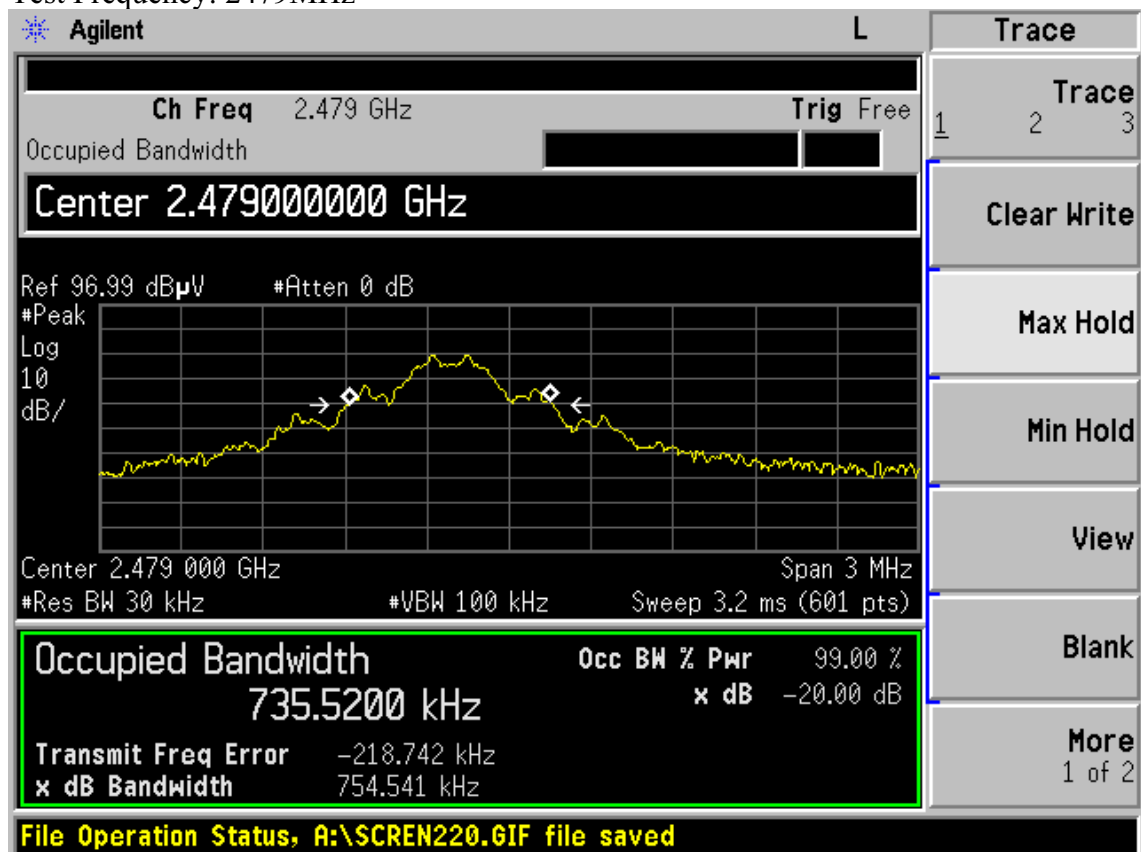
Test Frequency: 2404MHz



Test Frequency: 2441MHz



Test Frequency: 2479MHz



7. DEVIATION TO TEST SPECIFICATIONS

[NONE]