# APPLICATION FOR CERTIFICATION On Behalf of

Miracle-GRE Industrial Limited

Wireless Gaming Adapter

Model Number: 4704

FCC ID: VHQMIRACLE150GA

Prepared for: Miracle-GRE Industrial Limited

Yin Hu Industrial, Xie Gang Town, Dongguan

Prepared By: Audix Technology (Shenzhen) Co., Ltd.

No. 6, Ke Feng Rd., 52 Block,

Shenzhen Science & Industrial Park, Nantou, Shenzhen, Guangdong, China

Tel: (0755) 26639496

Report Number : ACS-F10081

Date of Test : Apr.15~22, 2010

Date of Report : Apr.26, 2010

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# FCC ID: VHQMIRACLE150GA

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# TEST REPORT CERTIFICATION

Applicant : Miracle-GRE Industrial Limited

EUT Description : Wireless Gaming Adapter

FCC ID : VHQMIRACLE150GA

(A) MODEL NO. : 4704 (B) SERIAL NO. : N/A

(C) POWER SUPPLY: DC 9V From Adapter

(D) TEST VOLTAGE: DC 9V From Adapter Input

AC 120V/60Hz

Apr 15~22 2010

Ken Lu / Manager

Test Procedure Used:

Date of Test

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.	Apr. 13 -22, 2010
Prepared by:	Edie Huang  Edie Huang / Assistant
Reviewer:	Jamy Yu / Supervisor
	在科技(深圳)有限公司 Audix Technology (Shenzhen) Co., Ltd. EMC 部門報告專用章
Ammazzad & Assthanizad Si	Stamp only for EMC Dept. Report Signature: 4 10

# 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 15: 15.207 ANSI C63.10: 2009	PASS				
Radiated Emission Test	FCC Part 15: 15.209 ANSI C63.10: 2009	PASS				
Band Edge Compliance Test	FCC Part 15: 15.247 ANSI C63.10: 2009	PASS				
Conducted spurious emissions test	FCC Part 15: 15.247 ANSI C63.10: 2009	PASS				
6dB Bandwidth Test	FCC Part 15: 15.247 ANSI C63.10: 2009	PASS				
Output Power Test	FCC Part 15: 15.247 ANSI C63.10: 2009	PASS				
Power Spectral Density Test	FCC Part 15: 15.247 ANSI C63.10: 2009	PASS				
Antenna requirement	FCC Part 15: 15.203	PASS				

## 2. GENERAL INFORMATION

2.1.Description of Device (EUT)

Product Name : Wireless Gaming Adapter

Model Number : 4704

FCC ID : VHQMIRACLE150GA

Operation Frequency : IEEE 802.11b/g, 802.11n HT20: 2412MHz---2462MHz

IEEE802.11n HT40: 2422MHz---2452MHz

Channel Number : IEEE 802.11b/g, 802.11n HT20: 11 Channels

IEEE 802.11n HT40: 7 Channels

Modulation Technology: IEEE 802.11b: DSSS(CCK,DQPSK,DBPSK)

IEEE 802.11g: OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT20, HT40: OFDM (64QAM, 16QAM,

QPSK,BPSK)

Output Power : IEEE 802.11b: 15.39dBm

IEEE 802.11g: 25.27dBm

IEEE 802.11n HT20: 24.98dBm IEEE 802.11n HT40: 24.14dBm

Antenna and Gain : Dipole antenna, 3dBi gain

Applicant : Miracle-GRE Industrial Limited

Yin Hu Industrial, Xie Gang Town, Dongguan

Power Adapter 1# : Manufacturer: GOLDEN REGENT ELECTRONICS

INDUSTRIAL LTD

M/N: SPS-02C9-0.6C-US

Cable: Unshielded, Detachable, 1.5m

Power adapter 2# : Manufacturer: ShenZhen JINGRICHANG Electronic

Technology Co., Ltd M/N: JT-H090100

Cable: Unshielded, Detachable, 1.5m

Date of Test : Apr.15~22, 2010

Date of Receipt : Apr.14, 2010

Sample Type : Prototype production

### 2.2.Test information

The test software "RT3050QA.exe" was used to control EUT work in Continuous TX mode(100% duty cycle), and select test channel, wireless mode and data rate.

Tested mode, channel, and data rate information						
Mode	data rate	Channel	Frequency			
	(Mpbs)(see Note)		(MHz)			
IEEE 802.11b	1	Low:CH1	2412			
	1	Middle: CH6	2437			
	1	High: CH11	2462			
IEEE 802.11g	6	Low:CH1	2412			
	6	Middle: CH6	2437			
	6	High: CH11	2462			
IEEE 802.11n HT20	6.5	Low:CH1	2412			
	6.5	Middle: CH6	2437			
	6.5	High: CH11	2462			
IEEE 802.11n HT40	13.5	Low:CH1	2422			
	13.5	Middle: CH4	2437			
	13.5	High: CH7	2452			

Note: According exploratory test, EUT will have maximum output power in those data rate, so those data rate were used for all test.

Note: This device have two adapters, according to exploratory test, this two adapters only have main influence on power line conducted emissions and radiated emissions from 30MHz to 1GHz. All the other RF tests and radiated emissions from 1GHz to 25GHz were only performed with power adapter 1.

# 2.3. Tested Supporting System Details

### 2.3.1. Notebook

M/N : PP09S S/N : N/A Manufacturer : DELL

Power Adaptor : Manufacturer: DELL,

M/N: LA65NS1-00

Cable: Unshielded, Detachabled, 4.0m

(Bond one ferrite core)

2.3.2. Cables

LAN Cable : Unshielded, Detachable 10m

# 2.4. 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

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

Test Item	Uncertainty
Uncertainty for Conduction emission test in No. 1 Conduction	2.40dB
Uncertainty for Radiation Emission test	3.82 dB (Polarize: V)
in 3m chamber	4.32 dB (Polarize: H)
Uncertainty for Radiated Spurious	2.70 dB(Bilog antenna 30M~1000MHz)
Emission test in RF chamber	2.27 dB(Horn antenna
Emission test in Kr chamber	1000M~25000MHz)
Uncertainty for Conduction Spurious emission test	2.12 dB
Uncertainty for Output power test	0.97 dB
Uncertainty for Power density test	2.21 dB
Uncertainty for Temperature and humidity	2%
test	1℃
Uncertainty for Frequency range test	1x10 <sup>-9</sup>
Uncertainty for Bandwidth test	1x10 <sup>-9</sup>
Uncertainty for DC power test	0.038 %
Uncertainty for test site temperature and	0.6℃
humidity	3%

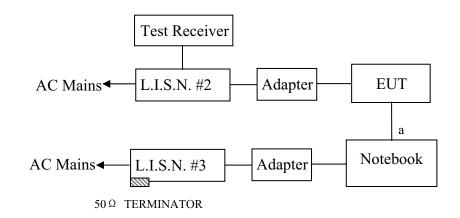
# 3. POWER LINE CONDUCTED EMISSION TEST

# 3.1.Test Equipments

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Test Receiver	Rohde & Schwarz	ESHS20	836600/006	May.08, 09	1 Year
2	L.I.S.N.#2	Kyoritsu	KNW-407	8-1636-1	May.08, 09	1 Year
3	L.I.S.N.#3	Kyoritsu	KNW-242C	8-1920-1	May.08, 09	1 Year
4	Terminator	Hubersuhner	50Ω	No. 1	May.08, 09	1 Year
5	RF Cable	Fujikura	3D-2W	LISN Cable 1#	May.08, 09	1Year
6	Coaxial Switch	Anritsu	MP59B	M55367	May.08, 09	1 Year
7	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100341	May.08, 09	1 Year

# 3.2.Block Diagram of Test Setup

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



a: LAN Cable 1m

### (EUT: Wireless Gaming Adapter)

# 3.3. Power Line Conducted Emission Test Limits

	Maximum RF Line Voltage			
Frequency	Quasi-Peak Level	Average Level		
	dB(µV)	$dB(\mu V)$		
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 Gaming Adapter (EUT)

Model Number : 4704 Serial Number : N/A

3.4.2. Support Equipment : As Tested Supporting System Detail, in Section 2.4.

# 3.5. Operating Condition of EUT

- 3.5.1. Setup the EUT and simulator as shown as Section 3.2.
- 3.5.2. Turned on the power of all equipment.
- 3.5.3. Notebook run test software to control EUT work in Tx mode.

### 3.6. Test Procedure

The EUT was placed on a non-metallic table, 80cm above the ground plane. The EUT Power Via Adapter 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). Both sides of power line were checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.10: 2009 on Conducted Emission Test.

The bandwidth of test receiver (R & S ESHS20) is set at 10kHz.

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

The test result are reported on Section 3.7.,

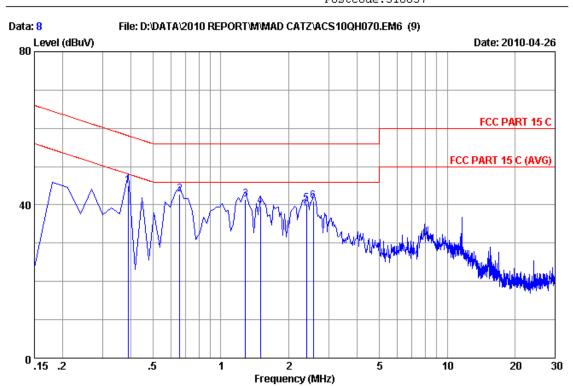
#### 3.7. Power Line Conducted Emission Test Results

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



NO.6 Ke Feng Road,Block 52, Shenzhen Science&Industry Park Nantou, Shenzhen,Guang dong, China.

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Site no : Audix No.1 Conduction Data no :8

Dis./Ant. :\*\* 2009 ESH2-Z5 LINE

Limit :FCC PART 15 C

Env./Ins. :Temp:23'C Humi:54% Engineer :Paul Tian

EUT :Wireless Gaming Adapter M/N:4704
Power Rating :DC 9V From Adapter input AC 120V/60Hz

Test Mode : Data Transmitting

Adapter 1

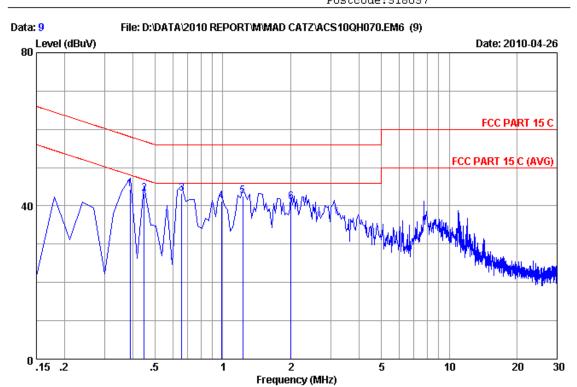
No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.38880	0.18	9.89	34.99	45.06	58.09	13.03	QP
2	0.65745	0.19	9.89	32.79	42.87	56.00	13.13	QP
3	1.284	0.20	9.89	31.46	41.55	56.00	14.45	QP
4	1.493	0.21	9.89	29.60	39.70	56.00	16.30	QP
5	2.389	0.22	9.90	30.32	40.44	56.00	15.56	QP
6	2.568	0.22	9.90	30.97	41.09	56.00	14.91	QP

Remarks: 1.Emission Level=LISN Factor+Cable Loss+Reading.



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Site no :Audix No.1 Conduction Data no :9

Dis./Ant. :\*\* 2009 ESH2-Z5 NEUTRAL

Limit :FCC PART 15 C

Env./Ins. :Temp:23'C Humi:54% Engineer :Paul Tian

EUT :Wireless Gaming Adapter M/N:4704
Power Rating :DC 9V From Adapter input AC 120V/60Hz

Test Mode :Data Transmitting

Adapter 1

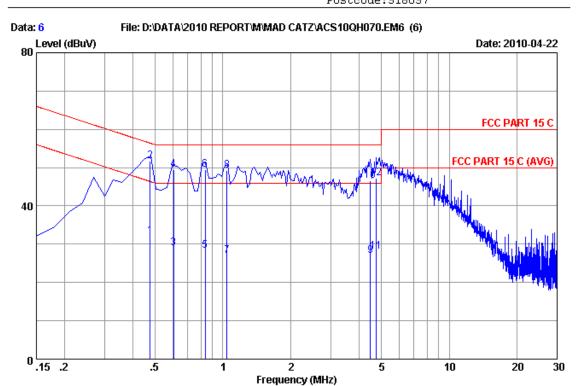
No 	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.38880	0.20	9.89	34.26	44.35	58.09	13.74	QP
2	0.44850	0.20	9.89	33.18	43.27	56.90	13.63	QP
3	0.65745	0.19	9.89	33.19	43.27	56.00	12.73	QP
4	0.98580	0.19	9.89	31.15	41.23	56.00	14.77	QP
5	1.225	0.19	9.89	32.55	42.63	56.00	13.37	QP
6	2.001	0.21	9.90	31.00	41.11	56.00	14.89	QP

Remarks: 1.Emission Level=LISN Factor+Cable Loss+Reading.



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Site no :Audix No.1 Conduction Data no :6

Dis./Ant. :\*\* 2009 ESH2-Z5 NEUTRAL

Limit :FCC PART 15 C

Env./Ins. :Temp:23'C Humi:54% Engineer :Paul Tian

EUT :Wireless Gaming Adapter M/N:4704
Power Rating :DC 9V From Adapter input AC 120V/60Hz

Test Mode : TX Mode
Adapter 2

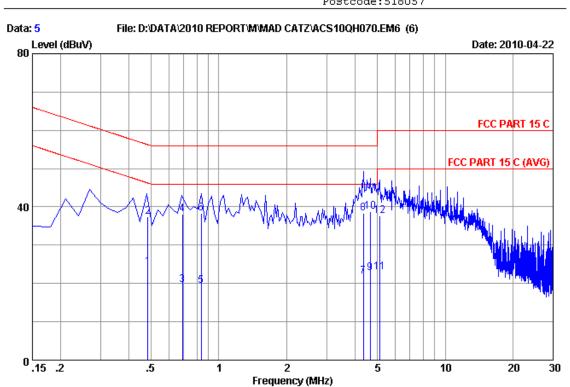
		LISN	Cable		Emissior	1		
No	Freq	Factor	Loss	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dB)	
1	0.47800	0.20	9.89	22.00	32.09	46.37	14.28	Average
2	0.47800	0.20	9.89	41.70	51.79	56.37	4.58	QP
3	0.60600	0.19	9.89	18.90	28.98	46.00	17.02	Average
4	0.60600	0.19	9.89	39.40	49.48	56.00	6.52	QP
5	0.83500	0.19	9.89	18.20	28.28	46.00	17.72	Average
6	0.83500	0.19	9.89	39.50	49.58	56.00	6.42	QP
7	1.043	0.19	9.89	16.90	26.98	46.00	19.02	Average
8	1.043	0.19	9.89	39.10	49.18	56.00	6.82	QP
9	4.480	0.28	9.91	16.70	26.89	46.00	19.11	Average
10	4.480	0.28	9.91	36.30	46.49	56.00	9.51	QP
11	4.777	0.28	9.91	17.80	27.99	46.00	18.01	Average
12	4.777	0.28	9.91	37.10	47.29	56.00	8.71	QP

Remarks: 1.Emission Level=LISN Factor+Cable Loss+Reading.



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Site no :Audix No.1 Conduction Data no :5

Dis./Ant. :\*\* 2009 ESH2-Z5 LINE

Limit :FCC PART 15 C

Env./Ins. :Temp:23'C Humi:54% Engineer :Paul Tian

EUT :Wireless Gaming Adapter M/N:4704
Power Rating :DC 9V From Adapter input AC 120V/60Hz

Test Mode :TX Mode Adapter 2

		LISN	Cable		Emission	1		
No	Freq	Factor	Loss	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dB)	
1	0.48600	0.18	9.89	14.20	24.27	46.24	21.97	Average
2	0.48600	0.18	9.89	27.40	37.47	56.24	18.77	QP
3	0.68900	0.19	9.89	9.60	19.68	46.00	26.32	Average
4	0.68900	0.19	9.89	28.00	38.08	56.00	17.92	QP
5	0.83600	0.19	9.89	9.31	19.39	46.00	26.61	Average
6	0.83600	0.19	9.89	28.31	38.39	56.00	17.61	QP
7	4.360	0.28	9.91	11.70	21.89	46.00	24.11	Average
8	4.360	0.28	9.91	28.10	38.29	56.00	17.71	QP
9	4.660	0.29	9.91	12.50	22.70	46.00	23.30	Average
10	4.660	0.29	9.91	28.50	38.70	56.00	17.30	QP
11	5.140	0.29	9.91	12.80	23.00	50.00	27.00	Average
12	5.140	0.29	9.91	27.50	37.70	60.00	22.30	QP

Remarks: 1.Emission Level=LISN Factor+Cable Loss+Reading.

# 4. RADIATED EMISSION TEST

# 4.1.Test Equipment

Frequency rang: 30~1000MHz

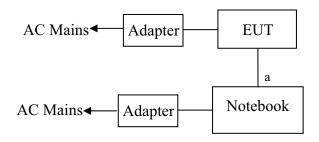
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	3#Chamber	AUDIX	N/A	N/A	Dec.05,09	1 Year
2	EMI Spectrum	Agilent	E4407B	MY41440292	May.08, 09	1 Year
3	Test Receiver	Rohde & Schwarz	ESVS10	834468/011	May.08, 09	1 Year
4	Amplifier	HP	8447D	2648A04738	May.08, 09	1 Year
5	Bilog Antenna	Schaffner	CBL6111C	2598	Dec.14, 09	1 Year
6	RF Cable	MIYAZAKI	8D-FB	3# Chamber No.1	May.08, 09	1 Year
7	Coaxial Switch	Anritsu	MP59B	M73989	May.08, 09	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, 09	1 Year
2	Horn Antenna	EMCO	3115	9607-4877	Nov.25, 09	1.5 Year
3	Horn Antenna	EMCO	3116	00060089	Dec.03, 09	1.5 Year
4	Amplifier	Agilent	8449B	3008A00863	May.08, 09	1 Year
5	RF Cable	Hubersuhner	SUCOFLEX102	28620/2	Nov.28, 09	1 Year
6	RF Cable	Hubersuhner	SUCOFLEX102	29091/2	Nov.28, 09	1 Year
7	RF Cable	Hubersuhner	SUCOFLEX102	28618/2	May.08, 09	1Year

# 4.2.Block Diagram of Test Setup

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

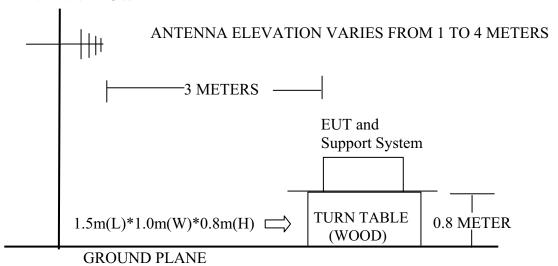


a: LAN Cable 1m

(EUT: Wireless Gaming Adapter)

### 4.2.2. In Anechoic Chamber

#### ANTENNA TOWER



# 4.3. Radiated Emission Limit

### 4.3.1.15.209 limits

FREQUENCY	DISTANCE	FIELD STRENGTHS LIMIT			
MHz	Meters	μV/m	dB(μV)/m		
30 ~ 88	3	100	40.0		
88 ~ 216	3	150	43.5		
216 ~ 960	3	200	46.0		
960 ~ 1000	3	500	54.0		
Above 1000	3	74.0 dB(μV	/)/m (Peak)		
		54.0 dB(μV	V)/m (Average)		

Remark: (1) Emission level  $dB\mu V = 20 \log Emission level \mu V/m$ 

- (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.

4.3.2.15.205	Restricted	bands	of operation

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
<sup>1</sup> 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	( <sup>2</sup> )

All the emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

# 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 Gaming Adapter (EUT)

Model Number : 4704 Serial Number : N/A

4.4.2. Support Equipment : As Tested Supporting System Detail, in Section 2.4.

# 4.5. Operating Condition of EUT

- 4.5.1. Setup the EUT and simulator as shown as Section 4.2.
- 4.5.2. Turned on the power of all equipment.
- 4.5.3. Notebook run test software to control EUT work in test mode.

### 4.6.Test Procedure

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. Power on the EUT and let it working in test mode, then test it. 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 are set on 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 RBW is set at 1MHz and VBW is set at 3MHz for peak emissions measurement above 1GHz and 1MHz RBW, 10Hz VBW for average emissions measure above 1GHz

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

### 4.7. Radiated Emission Test Results

#### PASS.

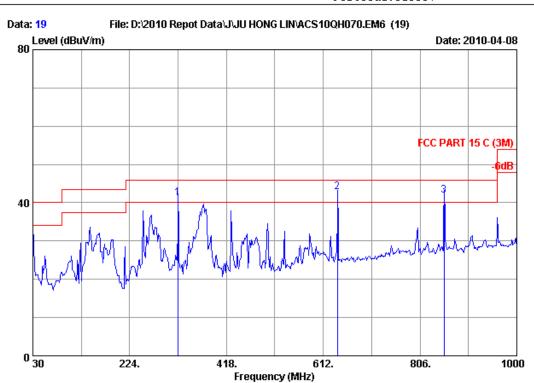
All the emissions from 30MHz to 25 GHz were comply with 15.209 limits.

### Frequency: 30MHz~1GHz



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Fax:+86-755-26632877 Postcode:518057



Data no. : 19

Site no. : 3m Chamber
Dis. / Ant. : 3m 2009 CBL6111C Ant. pol. : HORIZONTAL

: FCC PART 15 C (3M) Limit

Env. / Ins. : 24\*C/56% Engineer : Paul Tian

: Wireless Gaming Adapter M/N:4704 Power Rating : DC 9V From Adapter input AC 120V/60Hz

Test Mode : TX Mode Adapter 1

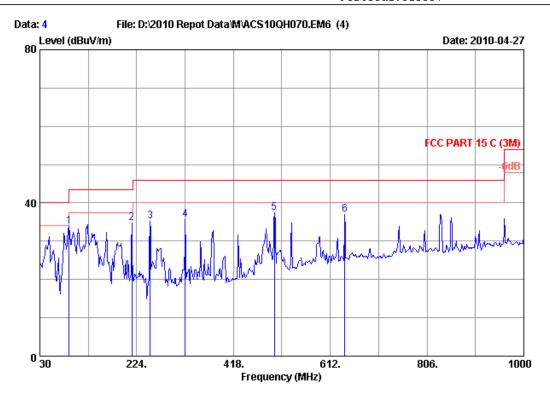
		Ant.	Cable		Emission				
No.	Freq.			_		Limits (dBuV/m)	_	Remark	
1	319.980	14.20	1.77	25.30	41.27	46.00	4.73	QP	
2	639.980	20.50	2.61	19.60	42.71	46.00	3.29	QP	
3	854.500	22.75	3.12	16.10	41.97	46.00	4.03	QP	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.

2. The emission levels that are 20dB below the official limit are not reported.



Postcode:518057



Site no. : 3m Chamber Data no. : 4

Dis. / Ant. : 3m 2009 CBL6111C Ant. pol. : VERTICAL

Limit : FCC PART 15 C (3M)

Env. / Ins. : 24\*C/56% Engineer : Paul Tian

EUT : Wireless Gaming Adapter

Power Rating : DC 9V From Adapter Input AC 120V/60Hz

Test Mode : Tx mode M/N:4704 Adapter 1

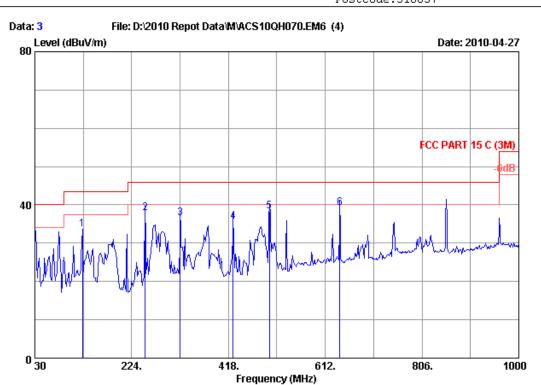
No.	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark	
1	88.200	8.82	0.85	24.12	33.79	43.50	9.71	QP	
2	214.300	10.02	1.40	23.38	34.80	43.50	8.70	QP	
3	251.160	12.90	1.64	20.66	35.20	46.00	10.80	QP	
4	321.000	14.22	1.77	19.72	35.71	46.00	10.29	QP	
5	500.450	18.30	2.25	16.81	37.36	46.00	8.64	QP	
6	641.100	20.49	2.62	13.94	37.05	46.00	8.95	QP	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.

The emission levels that are 20dB below the official limit are not reported.



Postcode:518057



Data no. : 3 Site no. : 3m Chamber

Dis. / Ant. : 3m 2009 CBL6111C Ant. pol. : HORIZONTAL

: FCC PART 15 C (3M) Limit

Env. / Ins. : 24\*C/56%

Engineer : Paul Tian : Wireless Gaming Adapter

Power Rating : DC 9V From Adapter Input AC 120V/60Hz

: Tx mode Test Mode M/N:4704 Adapter 2

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark	
1	125.060	12.10	1.00	20.62	33.72	43.50	9.78	QP	
2	251.160	12.90	1.64	23.44	37.98	46.00	8.02	QP	
3	321.000	14.22	1.77	20.46	36.45	46.00	9.55	QP	
4	427.700	17.40	2.02	16.32	35.74	46.00	10.26	QP	
5	500.450	18.30	2.25	17.80	38.35	46.00	7.65	QP	
6	641.100	20.49	2.62	16.20	39.31	46.00	6.69	QP	

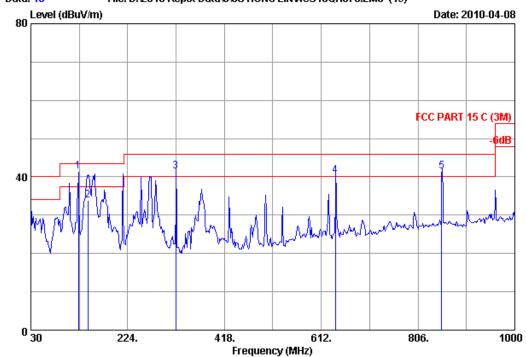
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.

2. The emission levels that are 20dB below the official limit are not reported.



Postcode:518057





Site no. : 3m Chamber Data no. : 18

Dis. / Ant. : 3m 2009 CBL6111C Ant. pol. : VERTICAL

Limit : FCC PART 15 C (3M)

Env. / Ins. : 24\*C/56% Engineer : Paul Tian

EUT : Wireless Gaming Adapter M/N:4704
Power Rating : DC 9V From Adapter input AC 120V/60Hz

Test Mode : TX Mode Adapter 2

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark	
1	125.000	12.10	1.00	27.30	40.40	43.50	3.10	QP	
2	144.460	11.92	1.07	20.89	33.88	43.50	9.62	QP	
3	319.980	14.20	1.77	25.50	41.47	46.00	4.53	QP	
4	639.980	20.50	2.61	17.30	40.41	46.00	5.59	QP	
5	853.300	22.74	3.12	15.60	41.46	46.00	4.54	QP	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.

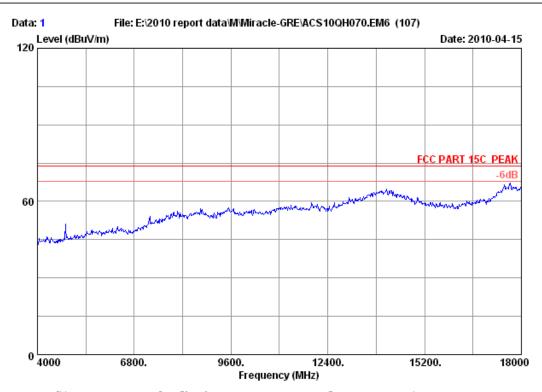
The emission levels that are 20dB below the official limit are not reported.

# Frequency: 1GHz~18GHz



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Postcode:518057



Site no. : 3m Chamber Data no. : 1

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23 \*C/54% Engineer : Leo-Li

EUT : Wireless Gaming Adapter

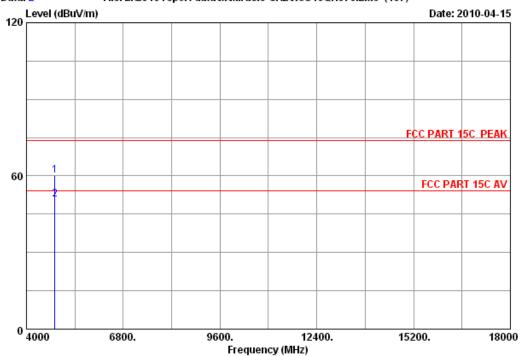
Power : DC 9V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11b CH1 2412MHz Tx

M/N : 4704







Site no. : 3m Chamber Data no. : 2

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23 \*C/54% Engineer : Leo-Li

EUT : Wireless Gaming Adapter

Power : DC 9V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11b CH1 2412MHz Tx

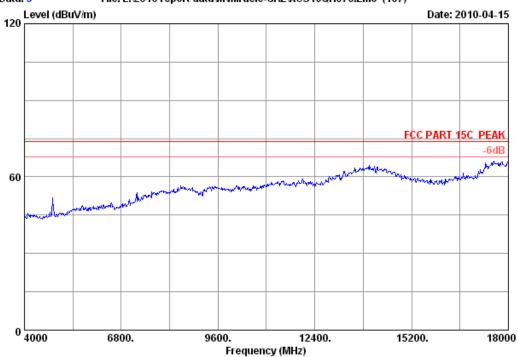
M/N : 4704

		Ant.	Cable	Amp.		Emissio	n			
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	4824.000	34.32	12.38	35.25	48.62	60.07	74.00	13.93	Peak	
2	4824.000	34.32	12.38	35.25	39.41	50.86	54.00	3.14	Average	

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







Site no. : 3m Chamber Data no. : 3

Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Leo-Li

EUT : Wireless Gaming Adapter

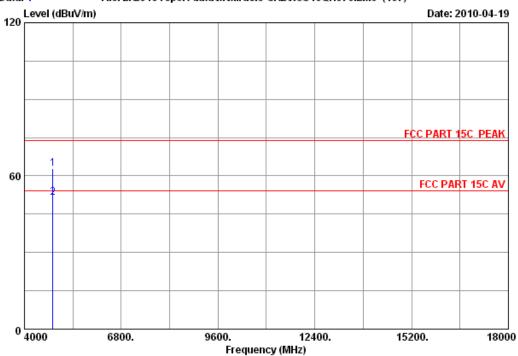
Power : DC 9V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11b CH1 2412MHz Tx

M/N : 4704







Site no. : 3m Chamber Data no. : 4

Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23 \*C/54% Engineer : Leo-Li

EUT : Wireless Gaming Adapter

Power : DC 9V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11b CH1 2412MHz Tx

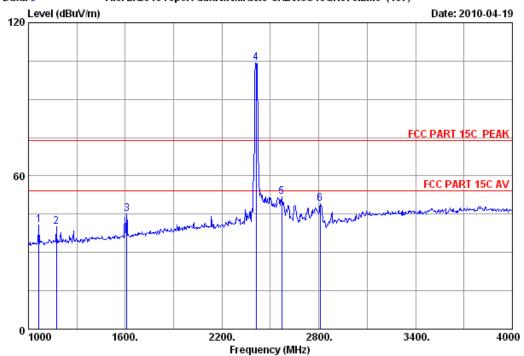
M/N : 4704

		Ant.	Cable	Amp.		Emissio	n		
	-	Factor (dB/m)	loss (dB)	Factor (dB)	Reading (dBuV)			_	Remark
_	4824.000 4824.000				51.26 40.03	62.71 51.48	74.00 54.00	11.29 2.52	Peak Average

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



#### File: E:\2010 report data\M\Miracle-GRE\ACS10QH070.EM6 (107) Data: 5



Site no. : 3m Chamber Data no. : 5 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

: FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Leo-Li

: Wireless Gaming Adapter

: DC 9V From Adapter Input AC 120V/60Hz

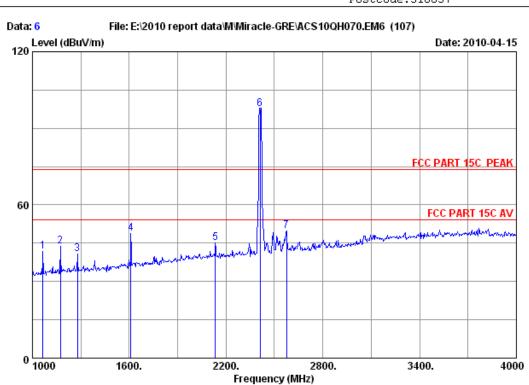
Test mode : IEEE802.11b CH1 2412MHz Tx

: 4704 M/N

		Ant.	Cable	Amp.		Emissio	n			
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m	) (dB)		
1	1066.000	25.54	5.60	37.26	46.82	40.70	74.00	33.30	Peak	
2	1174.000	25.74	5.92	36.92	45.52	40.26	74.00	33.74	Peak	
3	1609.000	27.05	6.98	36.35	47.50	45.18	74.00	28.82	Peak	
4	2412.000	29.45	8.72	35.95	102.18	104.40	74.00	-30.40	Peak	
5	2569.000	29.83	9.02	35.88	48.88	51.85	74.00	22.15	Peak	
6	2809.000	31.00	9.51	36.02	44.55	49.04	74.00	24.96	Peak	

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





Site no. : 3m Chamber Data no. : 6

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23 \*C/54% Engineer : Leo-Li

EUT : Wireless Gaming Adapter

Power : DC 9V From Adapter Input AC 120V/60Hz

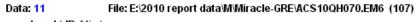
Test mode : IEEE802.11b CH1 2412MHz Tx

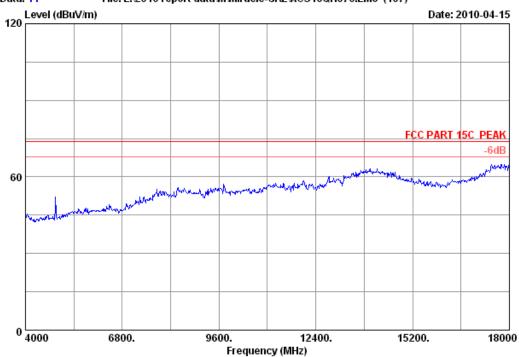
M/N : 4704

		Ant.	Cable	Amp.					
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	1066.000	25.54	5.60	 37.26	47.91	41.79	74.00	32.21	Peak
_									
2	1174.000	25.74	5.92	36.92	49.09	43.83	74.00	30.17	Peak
3	1279.000	25.95	6.17	36.81	45.58	40.89	74.00	33.11	Peak
4	1609.000	27.05	6.98	36.35	51.06	48.74	74.00	25.26	Peak
5	2134.000	29.28	8.17	35.97	43.79	45.27	74.00	28.73	Peak
6	2412.000	29.45	8.72	35.95	95.50	97.72	74.00 -	-23.72	Peak
7	2575.000	29.92	9.07	35.78	46.67	49.88	74.00	24.12	Peak

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







Site no. : 3m Chamber Data no. : 11 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

: FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Leo-Li

EUT : Wireless Gaming Adapter

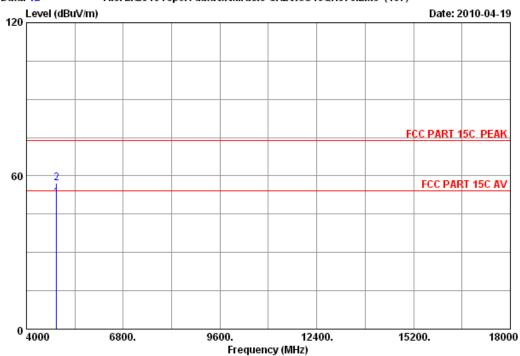
: DC 9V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11b CH6 2437MHz Tx

: 4704 M/N







Site no. : 3m Chamber Data no. : 12 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

: FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Leo-Li

: Wireless Gaming Adapter

: DC 9V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11b CH6 2437MHz Tx

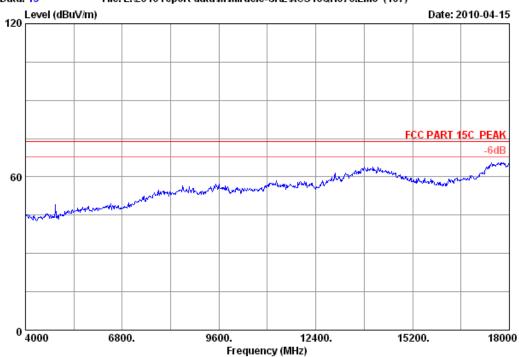
: 4704 M/N

	Freq.	Ant. Factor (dB/m)	Cable loss (dB)	•	Reading (dBuV)		Limits	_	Remark
1 2	4874.000 4874.000				40.01 45.73	51.50 57.22	54.00 74.00	2.50 16.78	Average Peak

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







Site no. : 3m Chamber Data no. : 13

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Leo-Li

EUT : Wireless Gaming Adapter

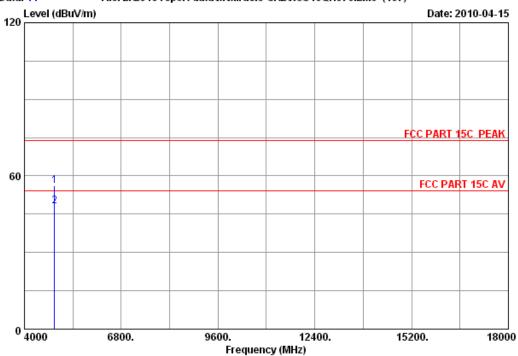
Power : DC 9V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11b CH6 2437MHz Tx

M/N : 4704







Site no. : 3m Chamber Data no. : 14

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Leo-Li

EUT : Wireless Gaming Adapter

Power : DC 9V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11b CH6 2437MHz Tx

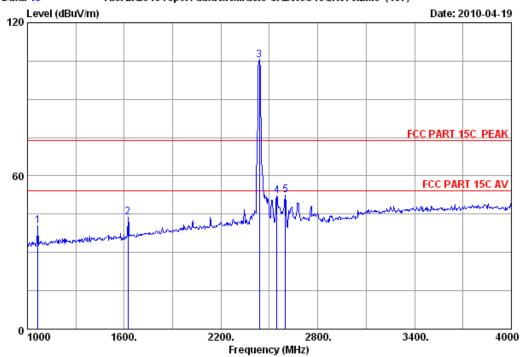
M/N : 4704

	Freq.	Cable loss (dB)	•	Reading (dBuV)		Limits	_	Remark
1 2	4874.000 4874.000	 		44.50 36.68	55.99 48.17	74.00 54.00	18.01 5.83	Peak Average

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







Site no. : 3m Chamber Data no. : 15 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

: FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Leo-Li

EUT : Wireless Gaming Adapter

Power : DC 9V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11b CH6 2437MHz Tx

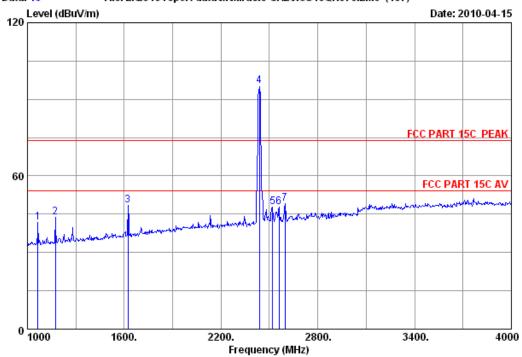
: 4704 M/N

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emissio: Level (dBuV/m)	Limits	Margin ) (dB)	Remark	
1	1066.000	25.54	5.60	37.26	46.45	40.33	74.00	33.67	Peak	
2	1624.000	27.15	7.04	36.26	45.92	43.85	74.00	30.15	Peak	
3	2437.000	29.47	8.77	36.06	103.10	105.28	74.00	-31.28	Peak	
4	2545.000	29.75	8.97	35.93	49.23	52.02	74.00	21.98	Peak	
5	2599.000	30.00	9.12	35.92	49.42	52.62	74.00	21.38	Peak	

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







Site no. : 3m Chamber Data no. : 16

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23 \*C/54% Engineer : Leo-Li

EUT : Wireless Gaming Adapter

Power : DC 9V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11b CH6 2437MHz Tx

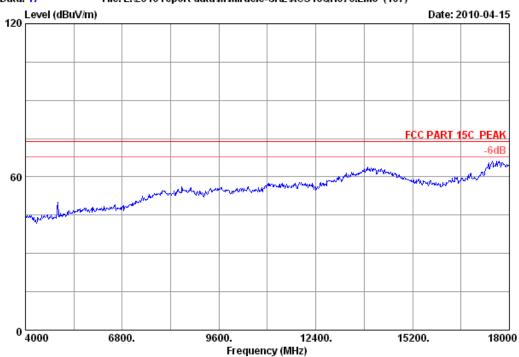
M/N : 4704

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emissio: Level (dBuV/m)	Limits	_	Remark
1	1066.000	25.54	5.60	37.26	47.76	41.64	74.00	32.36	Peak
2	1174.000	25.74	5.92	36.92	48.95	43.69	74.00	30.31	Peak
3	1624.000	27.15	7.04	36.26	50.49	48.42	74.00	25.58	Peak
4	2437.000	29.47	8.77	36.06	93.20	95.38	74.00	-21.38	Peak
5	2521.000	29.58	8.92	35.99	45.30	47.81	74.00	26.19	Peak
6	2560.000	29.83	9.02	35.88	44.78	47.75	74.00	26.25	Peak
7	2596.000	30.00	9.07	35.92	45.87	49.02	74.00	24.98	Peak

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







Site no. : 3m Chamber Data no. : 17

Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23 \*C/54% Engineer : Leo-Li

EUT : Wireless Gaming Adapter

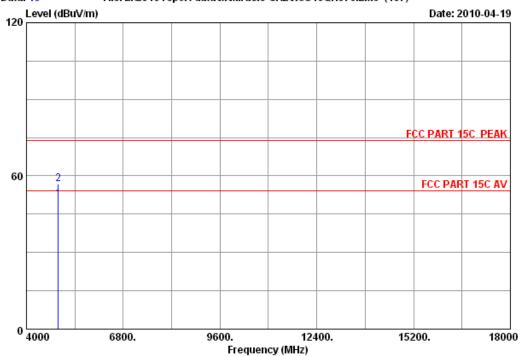
Power : DC 9V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11b CH11 2462MHz Tx

M/N : 4704







Site no. : 3m Chamber Data no. : 18
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23 \*C/54% Engineer : Leo-Li

EUT : Wireless Gaming Adapter

Power : DC 9V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11b CH11 2462MHz Tx

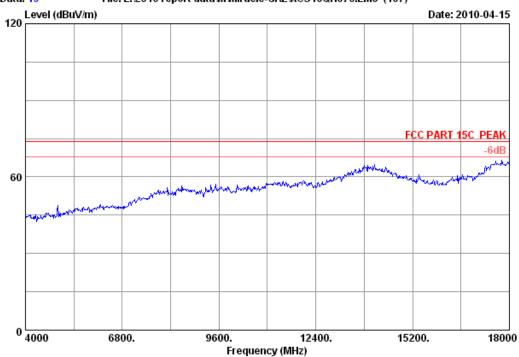
M/N : 4704

	Freq.	Ant. Factor (dB/m)	Cable loss (dB)	•	Reading (dBuV)		Limits	_	Remark
1 2	4924.000 4924.000				39.26 45.25	50.91 56.90	54.00 74.00	3.09 17.10	Average Peak

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







Site no. : 3m Chamber Data no. : 19

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Leo-Li

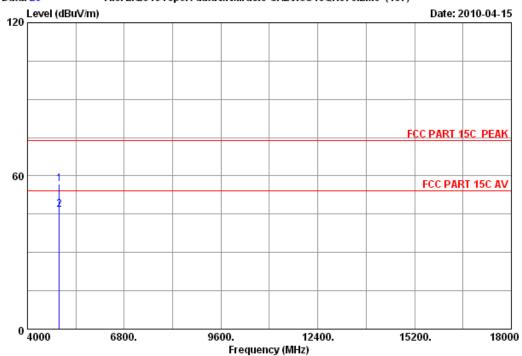
EUT : Wireless Gaming Adapter

Power : DC 9V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11b CH11 2462MHz Tx







Site no. : 3m Chamber Data no. : 20

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23 \*C/54% Engineer : Leo-Li

EUT : Wireless Gaming Adapter

Power : DC 9V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11b CH11 2462MHz Tx

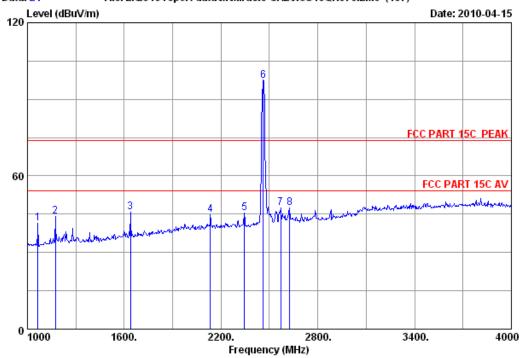
M/N : 4704

	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	4924.000	34.49	12.50	35.34	45.12	56.77	74.00	17.23	Peak
2	4924.000	34.49	12.50	35.34	35.29	46.94	54.00	7.06	Average

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







Site no. : 3m Chamber Data no. : 21

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Leo-Li

EUT : Wireless Gaming Adapter

Power : DC 9V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11b CH11 2462MHz Tx

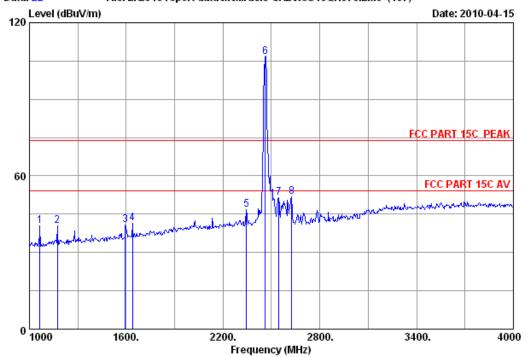
M/N : 4704

	Freq.	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emissio Level (dBuV/m)	n Limits (dBuV/1	_	Remark	
1	1066.000	25.54	5.60	37.26	47.58	41.46	74.00	32.54	Peak	
2	1174.000	25.74	5.92	36.92	49.51	44.25	74.00	29.75	Peak	
3	1639.000	27.24	7.04	36.33	47.82	45.77	74.00	28.23	Peak	
4	2134.000	29.28	8.17	35.97	43.33	44.81	74.00	29.19	Peak	
5	2344.000	29.41	8.57	35.99	43.38	45.37	74.00	28.63	Peak	
6	2462.000	29.48	8.82	36.02	95.05	97.33	74.00	-23.33	Peak	
7	2569.000	29.83	9.02	35.88	44.48	47.45	74.00	26.55	Peak	
8	2626.000	30.17	9.17	35.91	44.11	47.54	74.00	26.46	Peak	

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







Site no. : 3m Chamber Data no. : 22
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23 \*C/54% Engineer : Leo-Li

EUT : Wireless Gaming Adapter

Power : DC 9V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11b CH11 2462MHz Tx

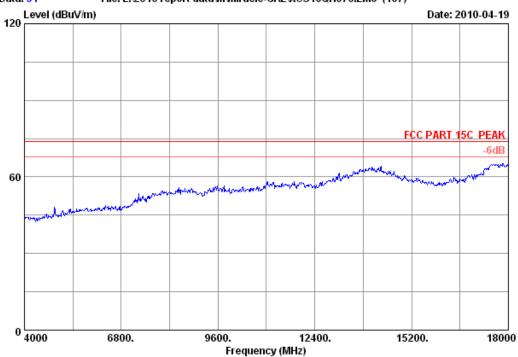
M/N : 4704

	Freq.	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emissio Level (dBuV/m)	n Limits (dBuV/m		Remark
1	1066.000	25.54	5.60	37.26	46.59	40.47	74.00	33.53	Peak
2	1174.000	25.74	5.92	36.92	45.65	40.39	74.00	33.61	Peak
3	1594.000	26.96	6.92	36.43	43.18	40.63	74.00	33.37	Peak
4	1639.000	27.24	7.04	36.33	43.46	41.41	74.00	32.59	Peak
5	2344.000	29.41	8.57	35.99	44.80	46.79	74.00	27.21	Peak
6	2462.000	29.48	8.82	36.02	104.19	106.47	74.00	-32.47	Peak
7	2545.000	29.75	8.97	35.93	48.62	51.41	74.00	22.59	Peak
8	2626.000	30.17	9.17	35.91	48.46	51.89	74.00	22.11	Peak

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







Site no. : 3m Chamber Data no. : 31
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Leo-Li

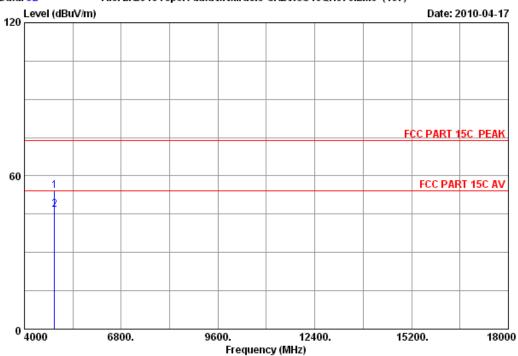
EUT : Wireless Gaming Adapter

Power : DC 9V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11g CH6 2437MHz Tx







Site no. : 3m Chamber Data no. : 32 Dis. / Ant. : 3m 3115(0911)

Ant. pol. : VERTICAL

: FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Leo-Li

: Wireless Gaming Adapter

: DC 9V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11g CH6 2437MHz Tx

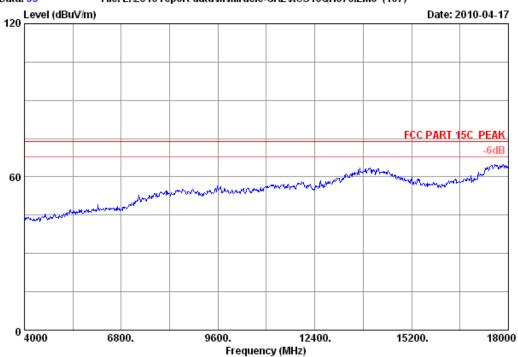
: 4704 M/N

	Freq.		•	Reading (dBuV)		Limits	_	Remark
_	4874.000 4874.000	 		42.57 35.17	54.06 46.66	74.00 54.00	19.94 7.34	Peak Average

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







Site no. : 3m Chamber Data no. : 33

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23 \*C/54% Engineer : Leo-Li

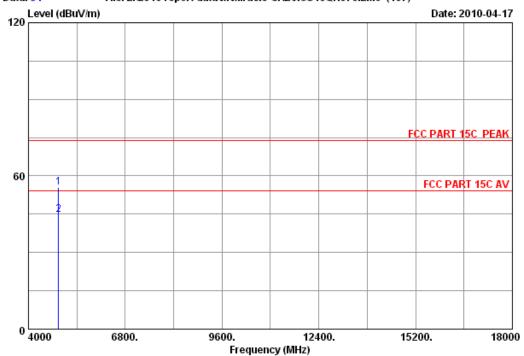
EUT : Wireless Gaming Adapter

Power : DC 9V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11g CH6 2437MHz Tx







Site no. : 3m Chamber Data no. : 34

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23 \*C/54% Engineer : Leo-Li

EUT : Wireless Gaming Adapter

Power : DC 9V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11g CH6 2437MHz Tx

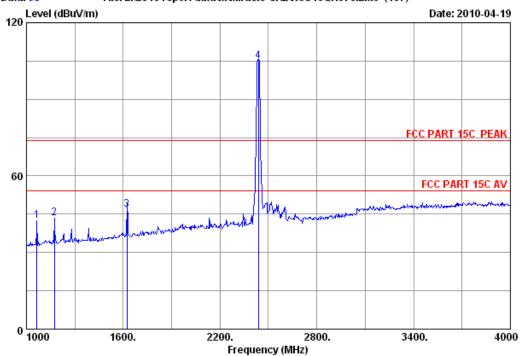
M/N : 4704

	Freq.	Ant. Factor (dB/m)	Cable loss (dB)	•	Reading (dBuV)		Limits	_	Remark
1 2	4874.000 4874.000				44.06 33.22	55.55 44.71	74.00 54.00	18.45 9.29	Peak Average

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







Site no. : 3m Chamber Data no. : 35

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23 \*C/54% Engineer : Leo-Li

EUT : Wireless Gaming Adapter

Power : DC 9V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11g CH6 2437MHz Tx

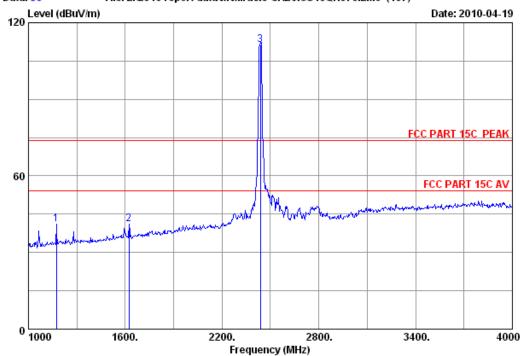
M/N : 4704

		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	1066.000	25.54	5.60	37.26	48.62	42.50	74.00	31.50	Peak	
2	1174.000	25.74	5.92	36.92	48.80	43.54	74.00	30.46	Peak	
3	1624.000	27.15	7.04	36.26	49.02	46.95	74.00	27.05	Peak	
4	2437.000	29.47	8.77	36.06	102.82	105.00	74.00	-31.00	Peak	

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







Site no. : 3m Chamber Data no. : 36

Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Leo-Li

EUT : Wireless Gaming Adapter

Power : DC 9V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11g CH6 2437MHz Tx

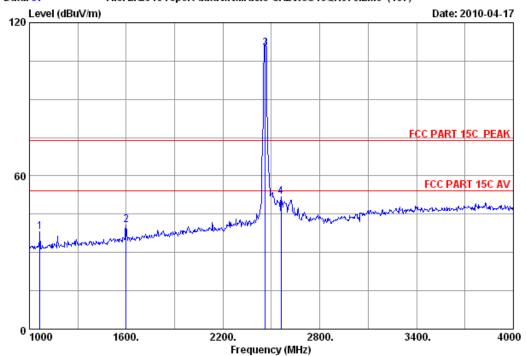
M/N : 4704

1 1174.000 25.74 5.92 36.92 46.45 41.19 74.00 32.81 Pea 2 1624.000 27.15 7.04 36.26 43.16 41.09 74.00 32.91 Pea 3 2437.000 29.47 8.77 36.06 109.16 111.34 74.00 -37.34 Pea	2	

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







Site no. : 3m Chamber Data no. : 37
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23 \*C/54% Engineer : Leo-Li

EUT : Wireless Gaming Adapter

Power : DC 9V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11g CH11 2462MHz Tx

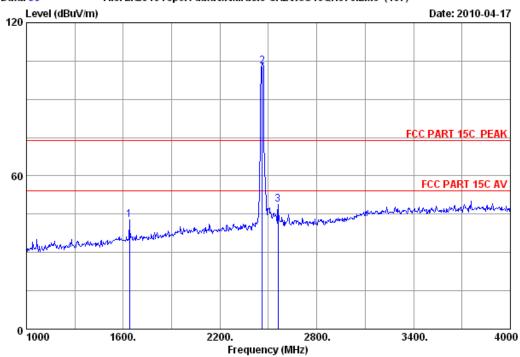
M/N : 4704

	Freq. (MHz)	Ant. Factor (dB/m)		Amp. Factor (dB)	Reading (dBuV)	Emissio: Level (dBuV/m)	Limits	Margin ) (dB)	Remark
1	1066.000	25.54	5.60	37.26	44.17	38.05	74.00	35.95	Peak
2	1600.000	26.96	6.98	36.43	43.16	40.67	74.00	33.33	Peak
3	2462.000	29.48	8.82	36.02	107.66	109.94	74.00	-35.94	Peak
4	2560.000	29.83	9.02	35.88	48.86	51.83	74.00	22.17	Peak

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







Site no. : 3m Chamber Data no. : 38

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23 \*C/54% Engineer : Leo-Li

EUT : Wireless Gaming Adapter

Power : DC 9V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11g CH11 2462MHz Tx

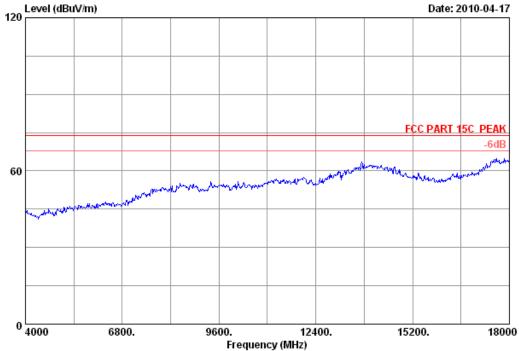
M/N : 4704

	•	Ant. Factor (dB/m)		Amp. Factor (dB)	Reading (dBuV)		Limits	_	Remark	
1 2 3	1639.000 2462.000 2560.000	29.48	8.82	36.02	44.92 100.64 45.92	42.87 102.92 48.89	74.00 74.00 74.00	31.13 -28.92 25.11	Peak Peak Peak	_

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







Site no. : 3m Chamber Data no. : 43

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

: FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Leo-Li

EUT : Wireless Gaming Adapter

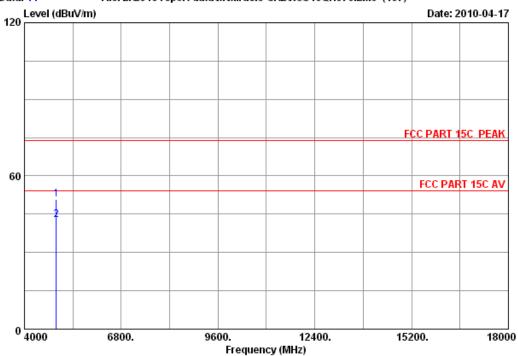
: DC 9V From Adapter Input AC 120V/60Hz

: IEEE802.11g CH11 2462MHz Tx Test mode

: 4704 M/N







Site no. : 3m Chamber Data no. : 44

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Leo-Li

EUT : Wireless Gaming Adapter

Power : DC 9V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11g CH11 2462MHz Tx

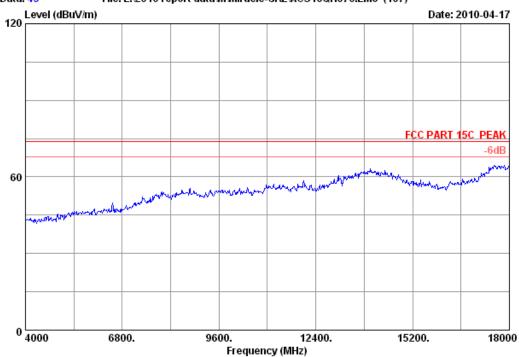
M/N : 4704

	Ant. Cable Amp.								
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	4924.000	34.49	12.50	35.34	39.20	50.85	74.00	23.15	Peak
2	4924.000	34.49	12.50	35.34	31.05	42.70	54.00	11.30	Average

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







Site no. : 3m Chamber Data no. : 45

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Leo-Li

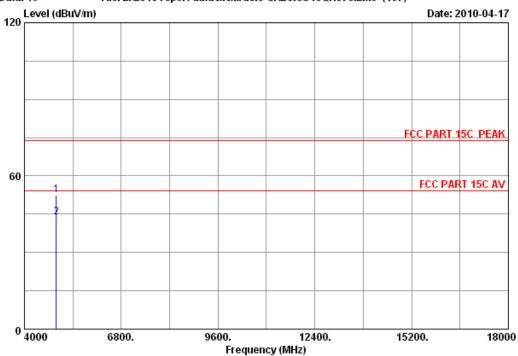
EUT : Wireless Gaming Adapter

Power : DC 9V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11g CH11 2462MHz Tx







Site no. : 3m Chamber Data no. : 46

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Leo-Li

EUT : Wireless Gaming Adapter

Power : DC 9V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11g CH11 2462MHz Tx

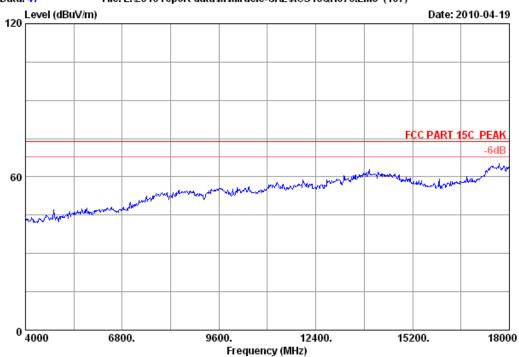
M/N : 4704

	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	4924.000	34.49	12.50	35.34	40.69	52.34	74.00	21.66	Peak
2	4924.000	34.49	12.50	35.34	32.08	43.73	54.00	10.27	Average

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







Site no. : 3m Chamber Data no. : 47
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23 \*C/54% Engineer : Leo-Li

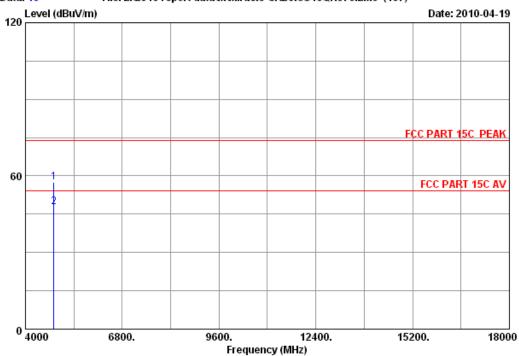
EUT : Wireless Gaming Adapter

Power : DC 9V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11nHT20 CH1 2412MHz Tx







Site no. : 3m Chamber Data no. : 48 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

: FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Leo-Li

: Wireless Gaming Adapter

: DC 9V From Adapter Input AC 120V/60Hz : IEEE802.11nHT20 CH1 2412MHz Tx

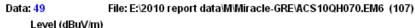
Test mode

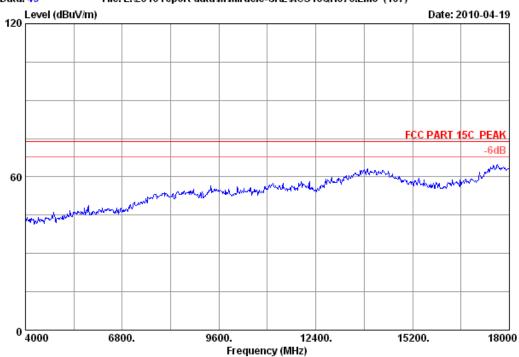
: 4704 M/N

		Ant.	Cable	Amp.		Emissio	n		
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	4824.000	34.32	12.38	35.25	45.90	57.35	74.00	16.65	Peak
2	4824.000	34.32	12.38	35.25	36.28	47.73	54.00	6.27	Average

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







Site no. : 3m Chamber Data no. : 49

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

: FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Leo-Li

EUT : Wireless Gaming Adapter

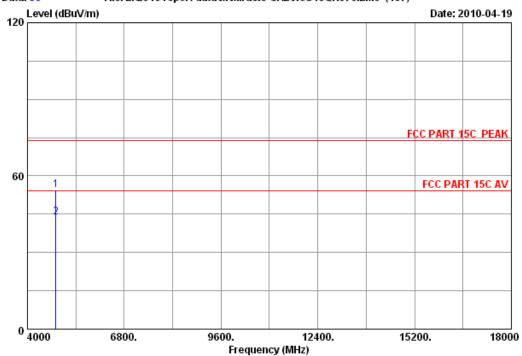
: DC 9V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11nHT20 CH1 2412MHz Tx

: 4704 M/N







Site no. : 3m Chamber Data no. : 50

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23 \*C/54% Engineer : Leo-Li

EUT : Wireless Gaming Adapter

Power : DC 9V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11nHT20 CH1 2412MHz Tx

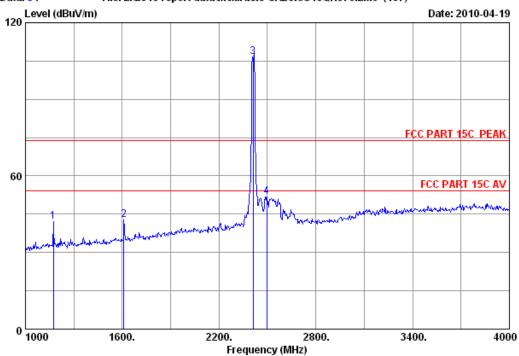
M/N : 4704

		Ant.	Cable	Amp.		Emissio	n		
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	4824.000	34.32	12.38	35.25	43.18	54.63	74.00	19.37	Peak
2	4824.000	34.32	12.38	35.25	32.36	43.81	54.00	10.19	Average

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



# Data: 51 File: E:\2010 report data\M\Miracle-GRE\AC\$10QH070.EM6 (107)



Site no. : 3m Chamber Data no. : 51

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Leo-Li

EUT : Wireless Gaming Adapter

Power : DC 9V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11nHT20 CH1 2412MHz Tx

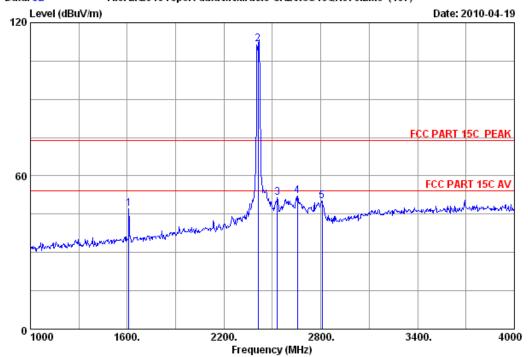
M/N : 4704

	Freq. (MHz)	Ant. Factor (dB/m)	Amp. Factor (dB)	Reading (dBuV)	Emissio Level (dBuV/m)	Limits	Margin ) (dB)	Remark	
1	1174.000		 36.92 36.35	47.28 45.00	42.02 42.68	74.00 74.00	31.98 31.32	Peak Peak	
3 4	2412.000 2497.000		 35.95 36.00	104.28 49.51	106.50 51.93	74.00 74.00	-32.50 22.07	Peak Peak	

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



# Data: 52 File: E:\2010 report data\M\Miracle-GRE\AC\$10QH070.EM6 (107)



Site no. : 3m Chamber Data no. : 52

Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Leo-Li

EUT : Wireless Gaming Adapter

Power : DC 9V From Adapter Input AC 120V/60Hz Test mode : IEEE802.11nHT20 CH1 2412MHz Tx

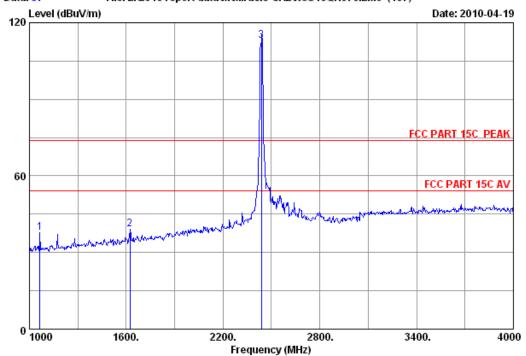
M/N : 4704

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emissio: Level (dBuV/m)	Limits	Margin ) (dB)	Remark
1	1609.000	27.05	6.98	36.35	49.61	47.29	74.00	26.71	Peak
2	2412.000	29.45	8.72	35.95	109.30	111.52	74.00	-37.52	Peak
3	2530.000	29.67	8.97	35.98	48.68	51.34	74.00	22.66	Peak
4	2656.000	30.25	9.21	35.77	48.53	52.22	74.00	21.78	Peak
5	2809.000	31.00	9.51	36.02	45.74	50.23	74.00	23.77	Peak

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







Site no. : 3m Chamber Data no. : 57

Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Leo-Li
EUT : Wireless Gaming Adapter

Power : DC 9V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11nHT20 CH6 2437MHz Tx

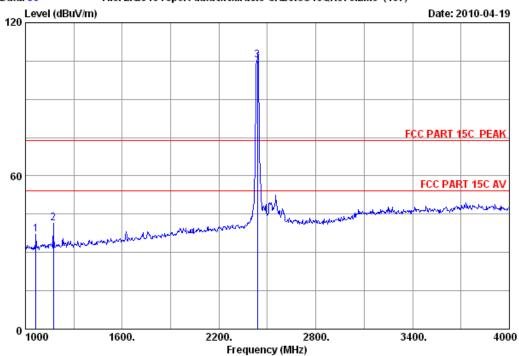
M/N : 4704

	Freq.	Factor		Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits	_	Remark
1 2 3		25.54 27.15 29.47	7.04	36.26	43.77 41.31 110.71	37.65 39.24 112.89	74.00 74.00 74.00	36.35 34.76 -38.89	Peak Peak Peak

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







Site no. : 3m Chamber Data no. : 58

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23 \*C/54% Engineer : Leo-Li

EUT : Wireless Gaming Adapter

Power : DC 9V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11nHT20 CH6 2437MHz Tx

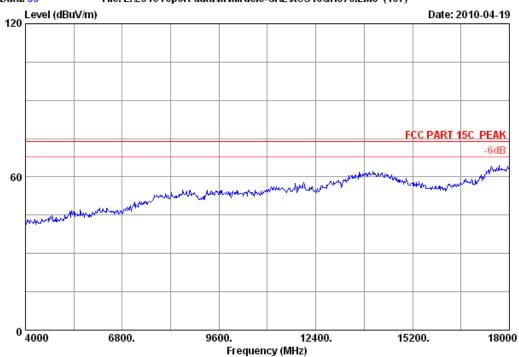
M/N : 4704

	Freq.	Ant. Factor (dB/m)		Amp. Factor (dB)	Reading (dBuV)		Limits	_	Remark	
2	1066.000 1174.000 2437.000	25.74	5.92		43.24 46.67 103.25	37.12 41.41 105.43	74.00 74.00 74.00	36.88 32.59 -31.43	Peak Peak Peak	

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







Site no. : 3m Chamber Data no. : 59

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

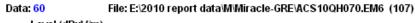
Env. / Ins. : 23\*C/54% Engineer : Leo-Li

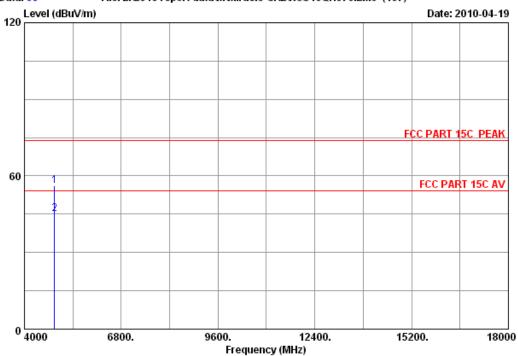
EUT : Wireless Gaming Adapter

Power : DC 9V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11nHT20 CH6 2437MHz Tx







Site no. : 3m Chamber Data no. : 60

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

: FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Leo-Li

: Wireless Gaming Adapter

: DC 9V From Adapter Input AC 120V/60Hz

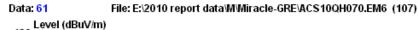
Test mode : IEEE802.11nHT20 CH6 2437MHz Tx

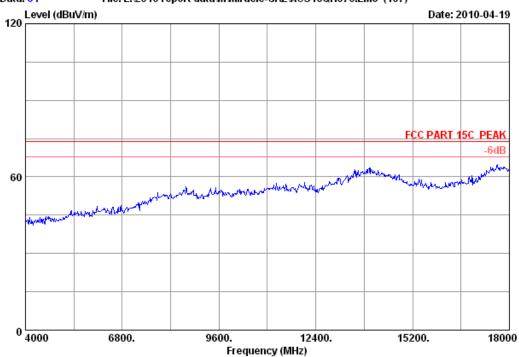
: 4704 M/N

		Ant.	Cable	Amp.		Emissio	n			
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	4874.000	34.41	12.44	35.36	44.57	56.06	74.00	17.94	Peak	
2	4874.000	34.41	12.44	35.36	33.67	45.16	54.00	8.84	Average	

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







Site no. : 3m Chamber Data no. : 61 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

: FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Leo-Li

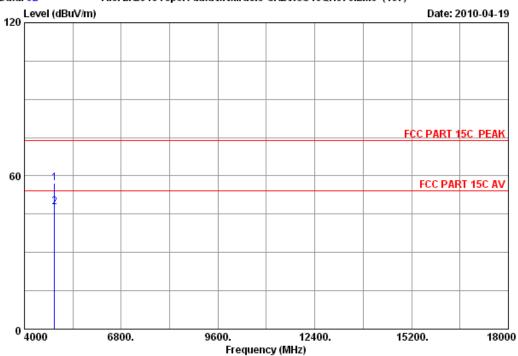
EUT : Wireless Gaming Adapter

: DC 9V From Adapter Input AC 120V/60Hz Test mode : IEEE802.11nHT20 CH6 2437MHz Tx

: 4704 M/N







Site no. : 3m Chamber Data no. : 62
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23 \*C/54% Engineer : Leo-Li

EUT : Wireless Gaming Adapter

Power : DC 9V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11nHT20 CH6 2437MHz Tx

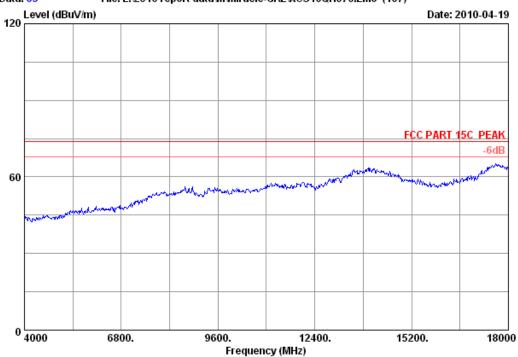
M/N : 4704

		Ant.	Cable	Amp.		Emissio	n			
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	4874.000	34.41	12.44	35.36	45.67	57.16	74.00	16.84	Peak	
2	4874.000	34.41	12.44	35.36	36.46	47.95	54.00	6.05	Average	

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







Site no. : 3m Chamber Data no. : 63

Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

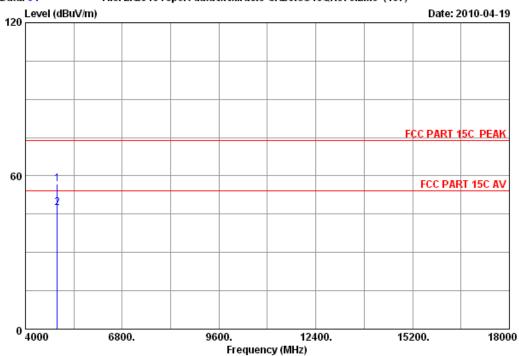
Env. / Ins. : 23 \*C/54% Engineer : Leo-Li

EUT : Wireless Gaming Adapter

Power : DC 9V From Adapter Input AC 120V/60Hz Test mode : IEEE802.11nHT20 CH11 2462MHz Tx







Site no. : 3m Chamber Data no. : 64

Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Leo-Li

EUT : Wireless Gaming Adapter

Power : DC 9V From Adapter Input AC 120V/60Hz Test mode : IEEE802.11nHT20 CH11 2462MHz Tx

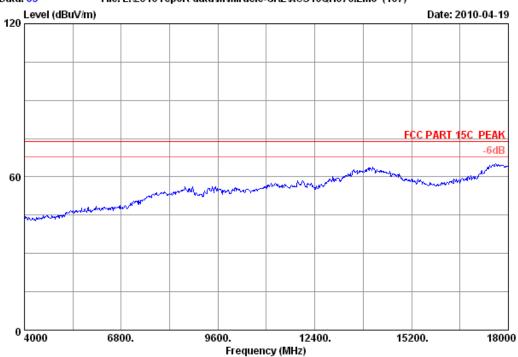
M/N : 4704

		Ant.	Cable	Amp.		Emission	n		
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	4924.000	34.49	12.50	35.34	45.26	56.91	74.00	17.09	Peak
2	4924.000	34.49	12.50	35.34	35.98	47.63	54.00	6.37	Average

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







Site no. : 3m Chamber Data no. : 65

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

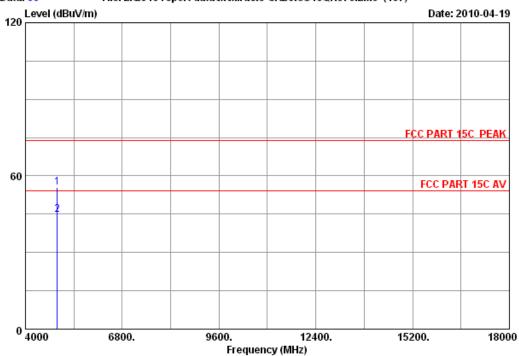
Env. / Ins. : 23\*C/54% Engineer : Leo-Li

EUT : Wireless Gaming Adapter

Power : DC 9V From Adapter Input AC 120V/60Hz Test mode : IEEE802.11nHT20 CH11 2462MHz Tx







Site no. : 3m Chamber Data no. : 66

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23 \*C/54% Engineer : Leo-Li

EUT : Wireless Gaming Adapter

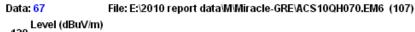
Power : DC 9V From Adapter Input AC 120V/60Hz Test mode : IEEE802.11nHT20 CH11 2462MHz Tx

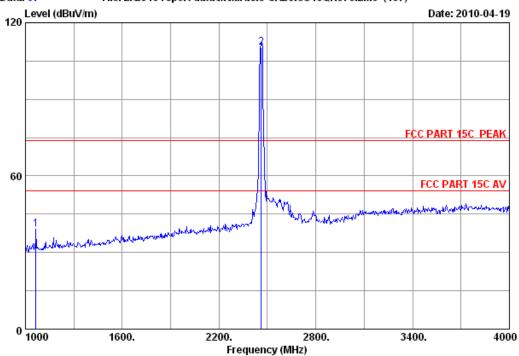
M/N : 4704

	Freq.	Ant. Factor (dB/m)	Cable loss (dB)	•	Reading (dBuV)		Limits	_	Remark
1 2	4924.000 4924.000				43.82 33.25	55.47 44.90	74.00 54.00	18.53 9.10	Peak Average

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







Site no. : 3m Chamber Data no. : 67 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

: FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Leo-Li

EUT : Wireless Gaming Adapter

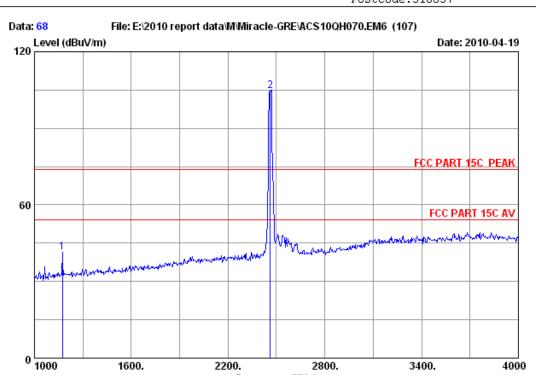
: DC 9V From Adapter Input AC 120V/60Hz Test mode : IEEE802.11nHT20 CH11 2462MHz Tx

: 4704 M/N

		Factor	loss	Reading (dBuV)		Limits	_	Remark	
_	1066.000 2462.000			 45.08 107.94	38.96 110.22	74.00 74.00	35.04 -36.22	Peak Peak	

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





Site no. : 3m Chamber Data no. : 68

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Frequency (MHz)

Limit : FCC PART 15C PEAK

Env. / Ins. : 23 \*C/54% Engineer : Leo-Li

EUT : Wireless Gaming Adapter

Power : DC 9V From Adapter Input AC 120V/60Hz Test mode : IEEE802.11nHT20 CH11 2462MHz Tx

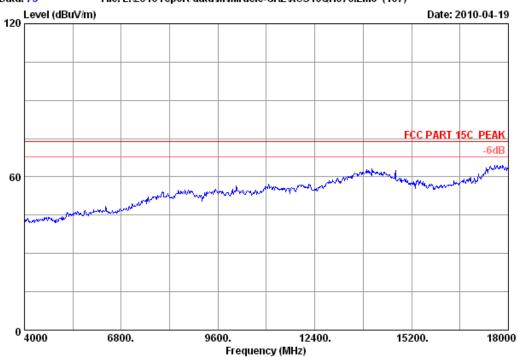
M/N : 4704

		Ant.	Cable	Amp.		Emissio	n			
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m	) (dB)		
1	1174.000	25.74	5.92	36.92	46.70	41.44	74.00	32.56	Peak	
2	2462.000	29.48	8.82	36.02	102.36	104.64	74.00	-30.64	Peak	

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







Site no. : 3m Chamber Data no. : 73

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Leo-Li

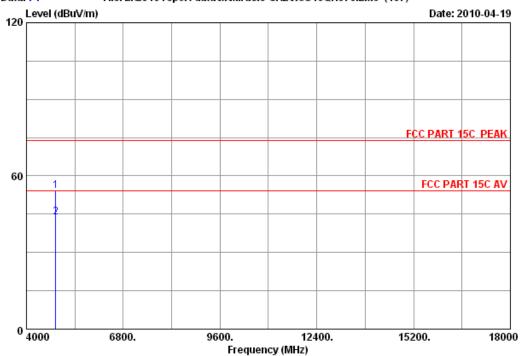
EUT : Wireless Gaming Adapter

Power : DC 9V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11nHT40 CH1 2422MHz Tx







Site no. : 3m Chamber Data no. : 74

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23 \*C/54% Engineer : Leo-Li

EUT : Wireless Gaming Adapter

Power : DC 9V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11nHT40 CH1 2422MHz Tx

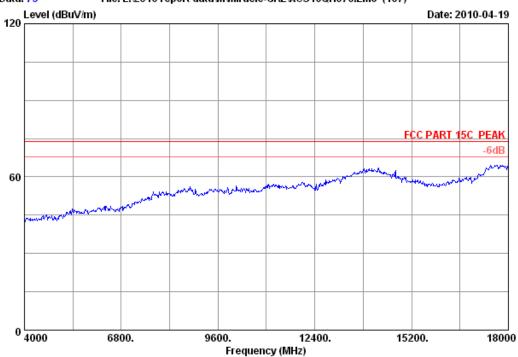
M/N : 4704

		Ant.	Cable	Amp.		Emission	n		
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	4844.000	34.35	12.38	35.25	42.55	54.03	74.00	19.97	Peak
2	4844.000	34.35	12.38	35.25	32.16	43.64	54.00	10.36	Average

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







Site no. : 3m Chamber Data no. : 75

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Leo-Li

EUT : Wireless Gaming Adapter

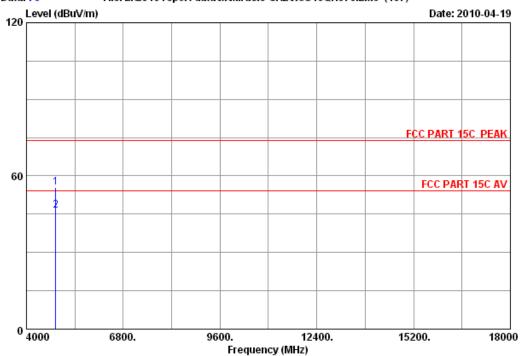
Power : DC 9V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11nHT40 CH1 2422MHz Tx

M/N : 4704







Site no. : 3m Chamber Data no. : 76

Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23 \*C/54% Engineer : Leo-Li

EUT : Wireless Gaming Adapter

Power : DC 9V From Adapter Input AC 120V/60Hz Test mode : IEEE802.11nHT40 CH1 2422MHz Tx

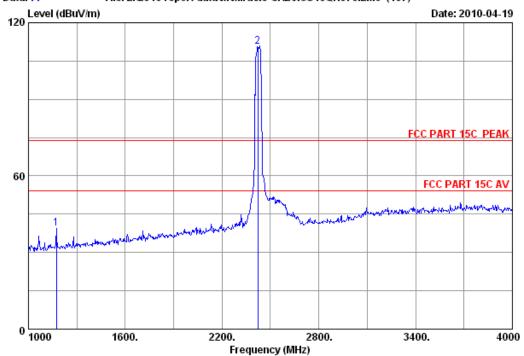
M/N : 4704

		Ant.	Cable	Amp.		Emissio	n		
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	4844.000	34.35	12.38	35.25	44.06	55.54	74.00	18.46	Peak
2	4844.000	34.35	12.38	35.25	35.06	46.54	54.00	7.46	Average

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







Site no. : 3m Chamber Data no. : 77

Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Leo-Li

EUT : Wireless Gaming Adapter

Power : DC 9V From Adapter Input AC 120V/60Hz Test mode : IEEE802.11nHT40 CH1 2422MHz Tx

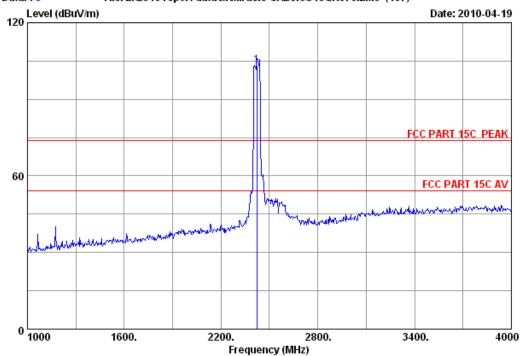
M/N : 4704

		Ant.	Cable	Amp.		Emission	n			
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
										-
1	1174.000	25.74	5.92	36.92	44.81	39.55	74.00	34.45	Peak	
2	2422.000	29.46	8.77	36.01	108.30	110.52	74.00	-36.52	Peak	

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







Site no. : 3m Chamber Data no. : 78

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23 \*C/54% Engineer : Leo-Li

EUT : Wireless Gaming Adapter

Power : DC 9V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11nHT40 CH1 2422MHz Tx

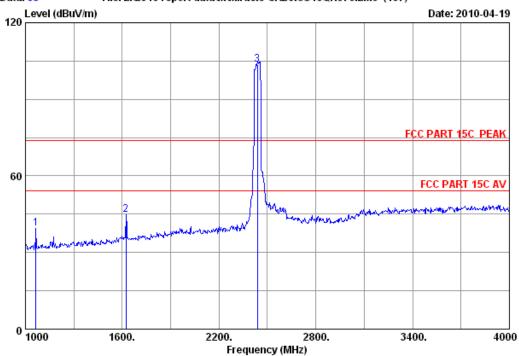
M/N : 4704

	-		loss	Factor	Reading		Limits	_	Remark
	(MHZ)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m	) (dB) 	
1	2422.000	29.46	8.77	36.01	100.98	103.20	74.00	-29.20	Peak

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







Site no. : 3m Chamber Data no. : 83

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23 \*C/54% Engineer : Leo-Li

EUT : Wireless Gaming Adapter

Power : DC 9V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11nHT40 CH4 2437MHz Tx

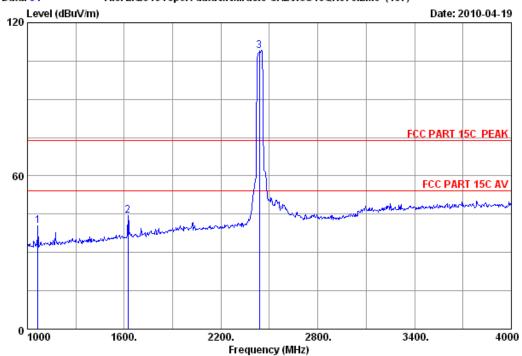
M/N : 4704

		Ant. Factor (dB/m)		Amp. Factor (dB)	Reading (dBuV)		Limits	Margin ) (dB)	Remark
1 2 3	1066.000 1624.000 2437.000	27.15	7.04		45.60 46.71 101.60	39.48 44.64 103.78	74.00 74.00 74.00	34.52 29.36 -29.78	Peak Peak Peak

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







Site no. : 3m Chamber Data no. : 84

Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23 \*C/54% Engineer : Leo-Li

EUT : Wireless Gaming Adapter

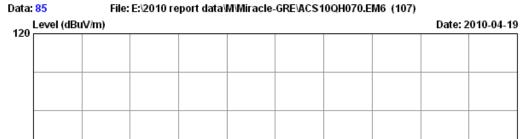
Power : DC 9V From Adapter Input AC 120V/60Hz Test mode : IEEE802.11nHT40 CH4 2437MHz Tx

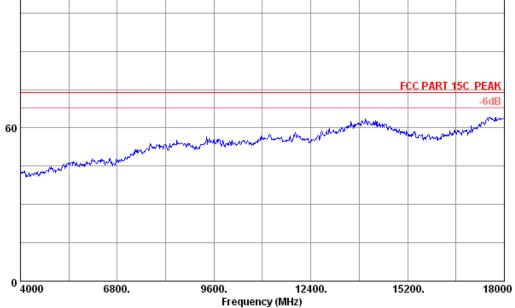
M/N : 4704

		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	1066.000	25.54	5.60	37.26	46.45	40.33	74.00	33.67	Peak
2	1624.000	27.15	7.04	36.26	46.49	44.42	74.00	29.58	Peak
3	2437.000	29.47	8.77	36.06	106.66	108.84	74.00	-34.84	Peak

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







Site no. : 3m Chamber Data no. : 85

Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

: FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Leo-Li

EUT : Wireless Gaming Adapter

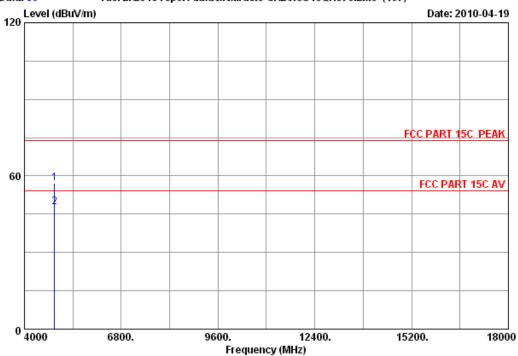
: DC 9V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11nHT40 CH4 2437MHz Tx

: 4704 M/N







 Site no.
 : 3m Chamber
 Data no.
 : 86

 Dis. / Ant.
 : 3m 3115(0911)
 Ant. pol.
 : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23 \*C/54% Engineer : Leo-Li

EUT : Wireless Gaming Adapter

Power : DC 9V From Adapter Input AC 120V/60Hz

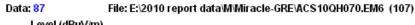
Test mode : IEEE802.11nHT40 CH4 2437MHz Tx

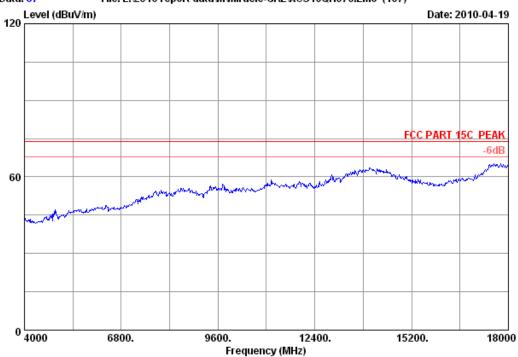
M/N : 4704

	Freq.		Factor	Reading (dBuV)		Limits	_	Remark
1	4874.000 4874.000	 		45.79 36.27	57.28 47.76		16.72 6.24	Peak Average

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







Site no. : 3m Chamber Data no. : 87

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

: FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Leo-Li

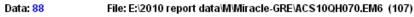
EUT : Wireless Gaming Adapter

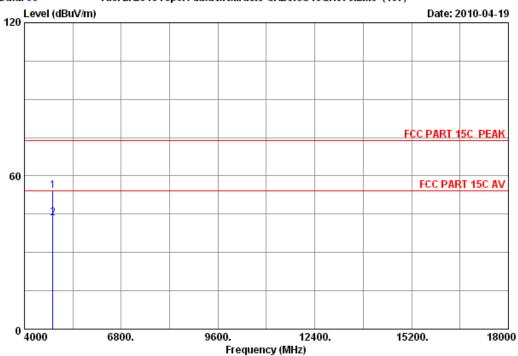
: DC 9V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11nHT40 CH4 2437MHz Tx

: 4704 M/N







Site no. : 3m Chamber Data no. : 88

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23 \*C/54% Engineer : Leo-Li

EUT : Wireless Gaming Adapter

Power : DC 9V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11nHT40 CH4 2437MHz Tx

M/N : 4704

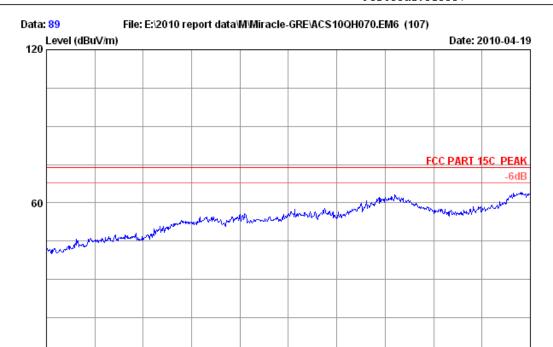
		Ant.	Cable	Amp.		Emissio	n		
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	4824.000	34.32	12.38	35.25	42.84	54.29	74.00	19.71	Peak
2	4824.000	34.32	12.38	35.25	32.17	43.62	54.00	10.38	Average

- 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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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. : 89 Dis. / Ant. : 3m 3115(0911)

Ant. pol. : VERTICAL

Frequency (MHz)

12400.

15200.

Engineer : Leo-Li

18000

: FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% EUT : Wireless Gaming Adapter

: DC 9V From Adapter Input AC 120V/60Hz

9600.

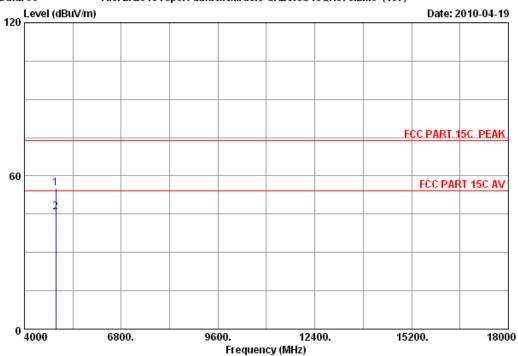
Test mode : IEEE802.11nHT40 CH7 2452MHz Tx

: 4704 M/N

6800.







Site no. : 3m Chamber Data no. : 90 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL : FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Leo-Li

: Wireless Gaming Adapter

: DC 9V From Adapter Input AC 120V/60Hz Test mode : IEEE802.11nHT40 CH7 2452MHz Tx

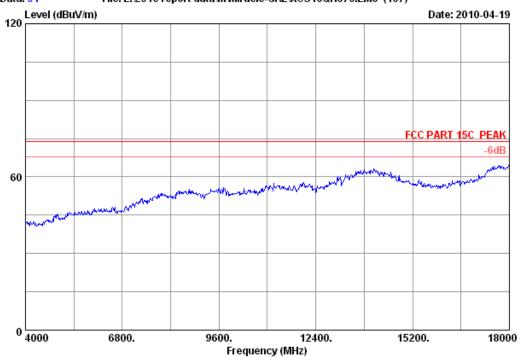
: 4704 M/N

		Ant.	Cable	Amp.		Emissio	n		
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	4904.000	34.46	12.47	35.27	43.50	55.16	74.00	18.84	Peak
2	4904.000	34.46	12.47	35.27	34.02	45.68	54.00	8.32	Average

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







Site no. : 3m Chamber Data no. : 91

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23 \*C/54% Engineer : Leo-Li

EUT : Wireless Gaming Adapter

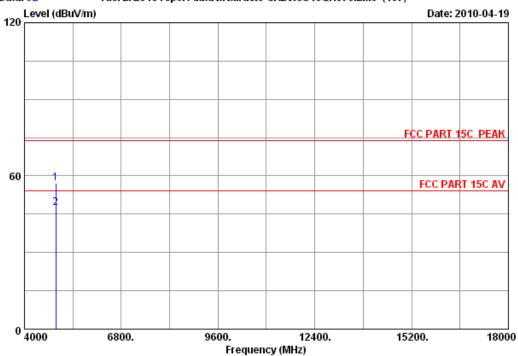
Power : DC 9V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11nHT40 CH7 2452MHz Tx

M/N : 4704







Site no. : 3m Chamber Data no. : 92

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23 \*C/54% Engineer : Leo-Li

EUT : Wireless Gaming Adapter

Power : DC 9V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11nHT40 CH7 2452MHz Tx

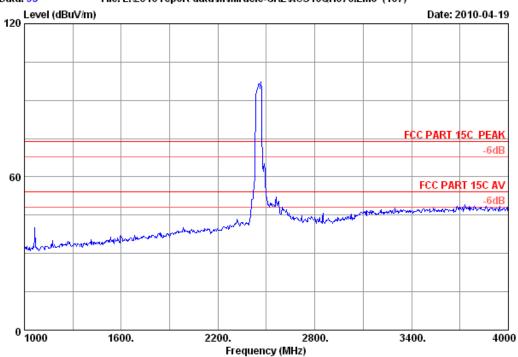
M/N : 4704

		Ant.	Cable	Amp.		Emission	n		
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	4904.000	34.46	12.47	35.27	45.50	57.16	74.00	16.84	Peak
2	4904.000	34.46	12.47	35.27	35.71	47.37	54.00	6.63	Average

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







Site no. : 3m Chamber Data no. : 93

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Leo-Li

EUT : Wireless Gaming Adapter

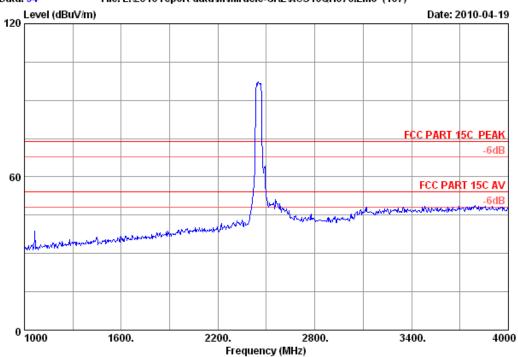
Power : DC 9V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11nHT40 CH7 2452MHz Tx

M/N : 4704







Site no. : 3m Chamber Data no. : 94
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23 \*C/54% Engineer : Leo-Li

EUT : Wireless Gaming Adapter

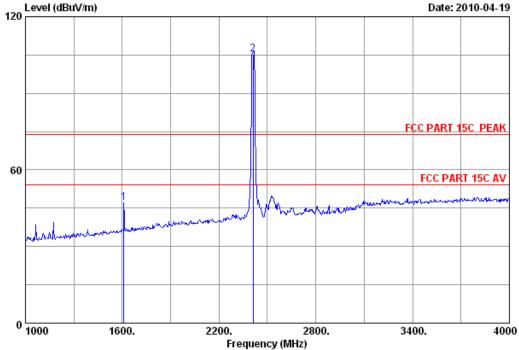
Power : DC 9V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11nHT40 CH7 2452MHz Tx

M/N : 4704







Site no. : 3m Chamber Data no. : 99

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

: FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Leo-Li

: Wireless Gaming Adapter

: DC 9V From Adapter Input AC 120V/60Hz

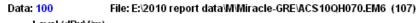
Test mode : IEEE802.11g CH1 2412MHz Tx

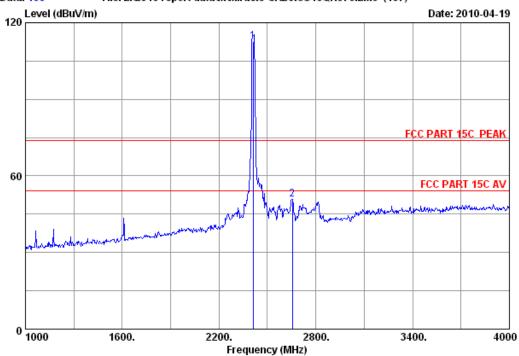
: 4704 M/N

		Ant.	Cable	Amp.		Emissio	n			
	-				Reading (dBuV)			_	Remark	
1	1609.000	27.05	6.98	36.35	49.57	47.25	74.00	26.75	Peak	
2	2412.000	29.45	8.72	35.95	103.23	105.45	74.00	-31.45	Peak	

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







Site no. : 3m Chamber Data no. : 100 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL : FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Leo-Li

: Wireless Gaming Adapter

: DC 9V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11g CH1 2412MHz Tx

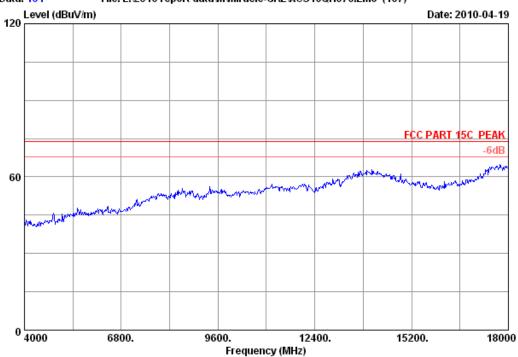
: 4704 M/N

		Ant.	Cable	Amp.		Emissio	n			
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m	) (dB)		
1	2412.000	29.45	8.72	35.95	110.35	112.57	74.00	-38.57	Peak	
2	2656.000	30.25	9.21	35.77	47.11	50.80	74.00	23.20	Peak	

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







Site no. : 3m Chamber Data no. : 101

Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Leo-Li

EUT : Wireless Gaming Adapter

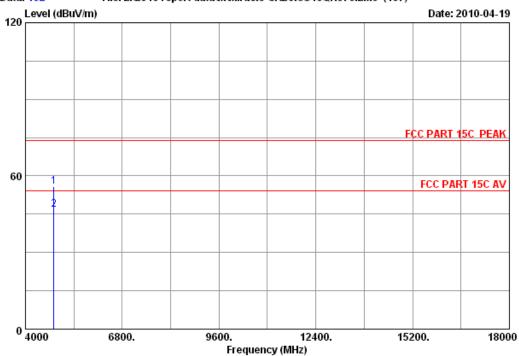
Power : DC 9V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11g CH1 2412MHz Tx

M/N : 4704







Site no. : 3m Chamber Data no. : 102 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL : FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Leo-Li

: Wireless Gaming Adapter

: DC 9V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11g CH1 2412MHz Tx

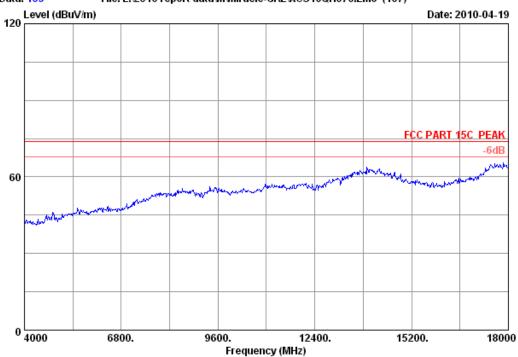
: 4704 M/N

	Ant. Cable Amp			Amp.	Emission				
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	4824.000	34.32	12.38	35.25	44.41	55.86	74.00	18.14	Peak
2	4824.000	34.32	12.38	35.25	35.25	46.70	54.00	7.30	Average

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







Site no. : 3m Chamber Data no. : 103

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23 \*C/54% Engineer : Leo-Li

EUT : Wireless Gaming Adapter

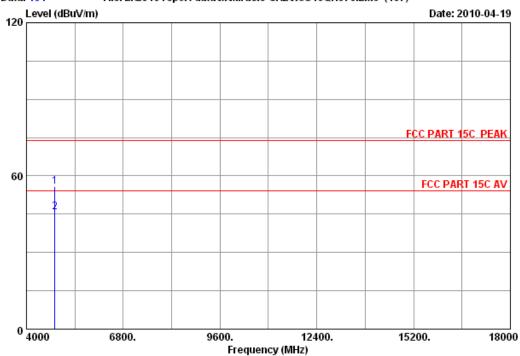
Power : DC 9V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11g CH1 2412MHz Tx

M/N : 4704







Site no. : 3m Chamber Data no. : 104

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23 \*C/54% Engineer : Leo-Li

EUT : Wireless Gaming Adapter

Power : DC 9V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11g CH1 2412MHz Tx

M/N : 4704

	Ant. Cable Amp			Amp.	Emission				
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	4824.000	34.32	12.38	35.25	44.51	55.96	74.00	18.04	Peak
2	4824.000	34.32	12.38	35.25	34.28	45.73	54.00	8.27	Average

- 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. CONDUCTED SPURIOUS EMISSIONS

# 5.1.Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	Agilent	E4446A	US44300459	May.08, 09	1 Year
2.	Attenuator	Agilent	8491B	MY39262165	May.08, 09	1 Year
3.	RF Cable	Hubersuhner	SUCOFLEX 102	28618/2	May.08, 09	1Year

# 5.2.Limit

In any 100kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator in operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in 15.209(a).

# 5.3. Test Procedure

The transmitter output was connected to a spectrum analyzer, The resolution bandwidth is set to 100 kHz, The video bandwidth is set to 300 kHz.

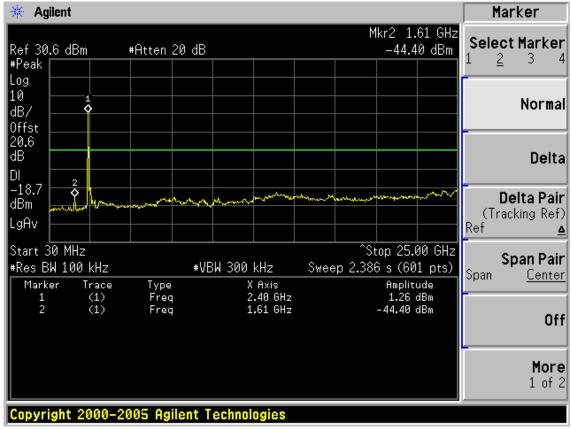
# 5.4. Test result

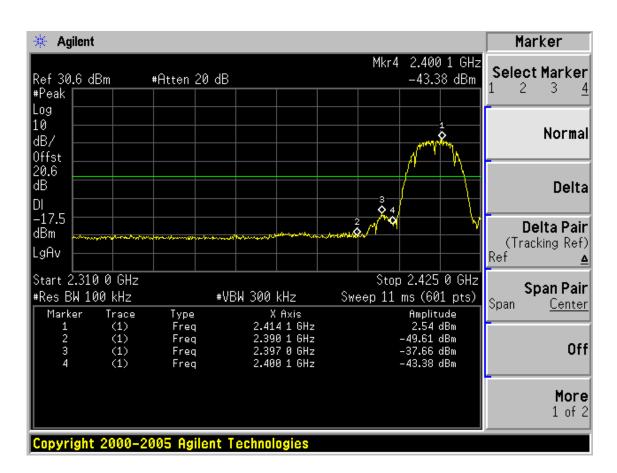
**PASS** (The testing data was attached in the next pages.)

### Conducted emission test data:

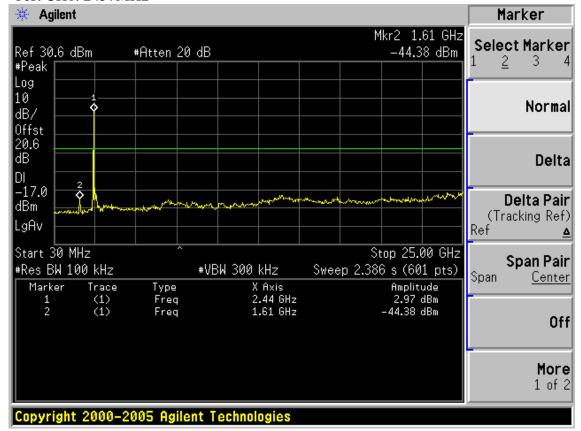
Test Mode: IEEE 802.11b TX

Test CH1: 2412MHz

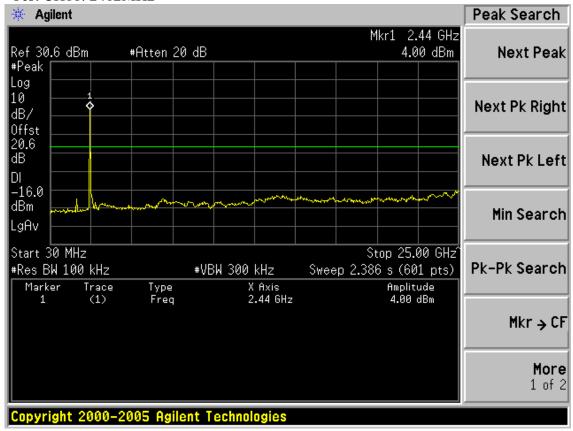


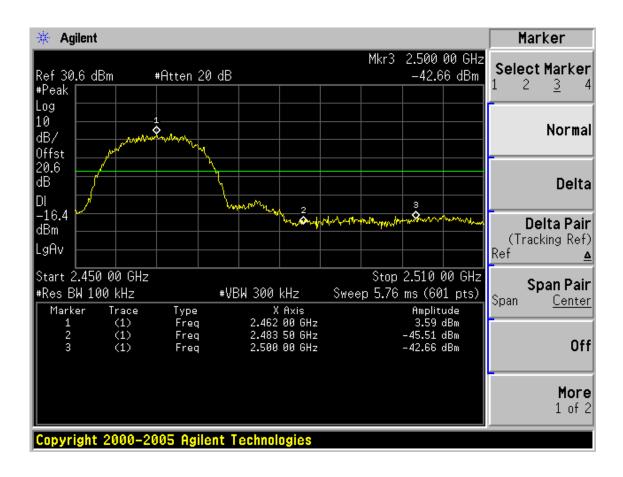


# Test CH6: 2437MHz

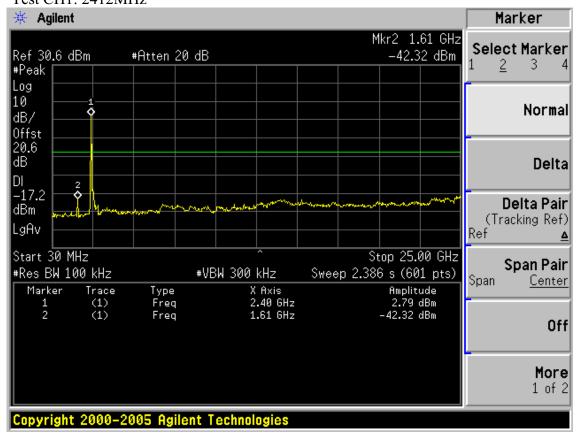


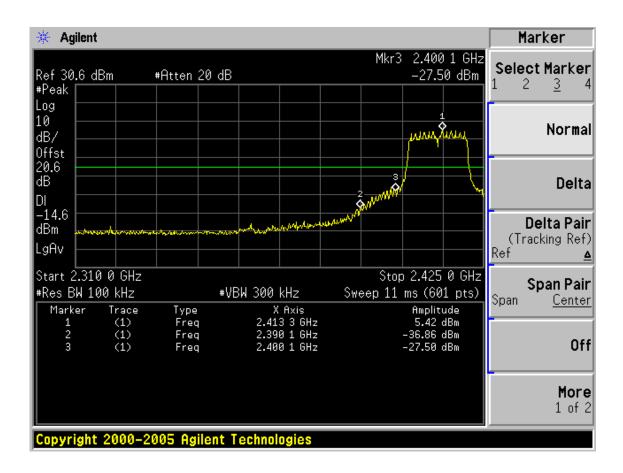
Test CH11: 2462MHz



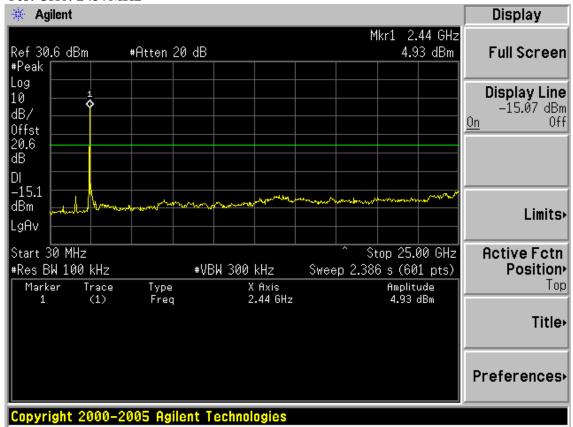


Test Mode: IEEE 802.11g TX Test CH1: 2412MHz

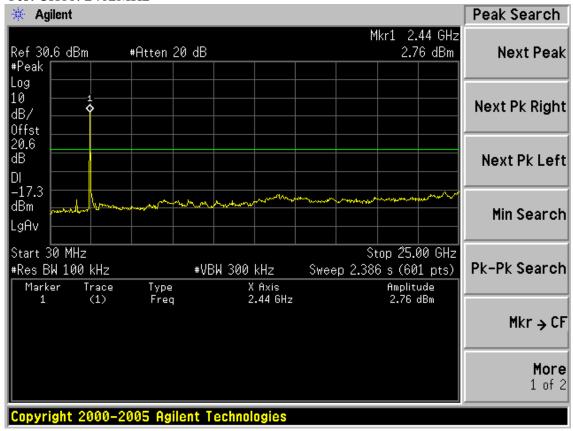


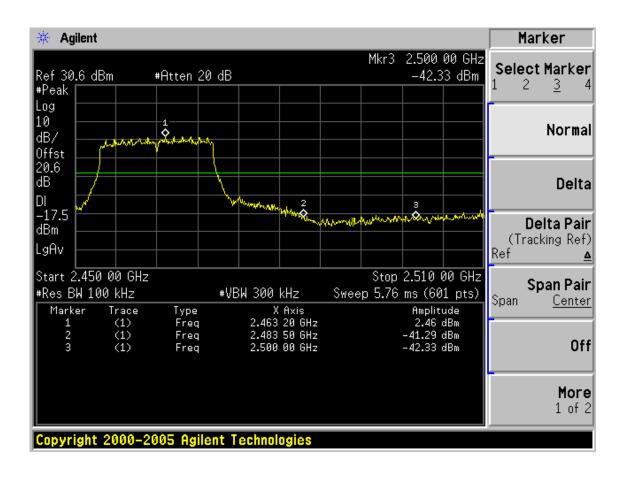


# Test CH6: 2437MHz



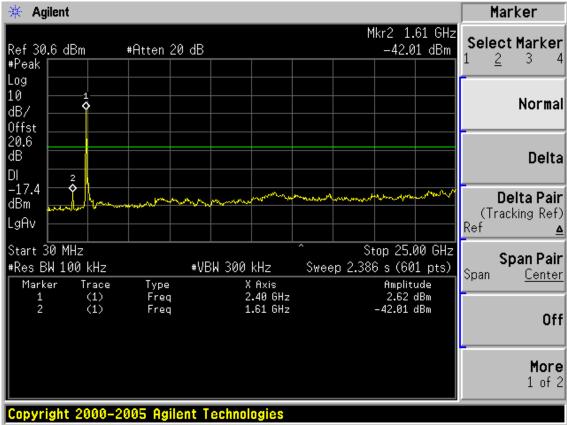
Test CH11: 2462MHz

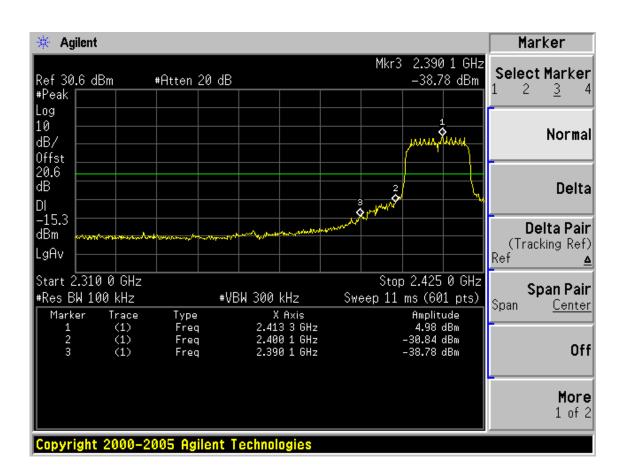




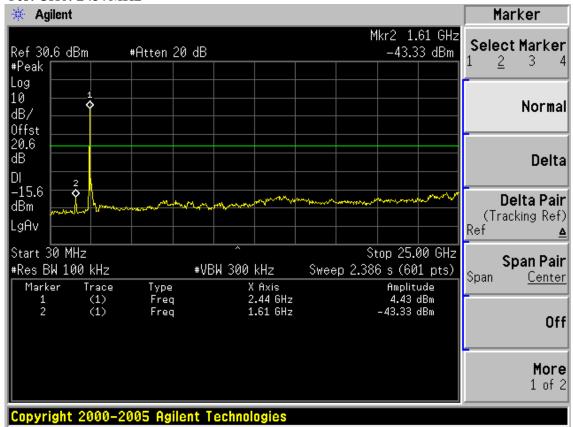
Test Mode: IEEE 802.11n HT20 TX

Test CH1: 2412MHz

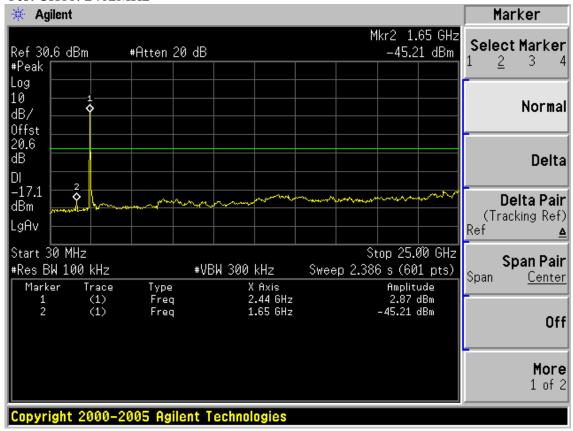


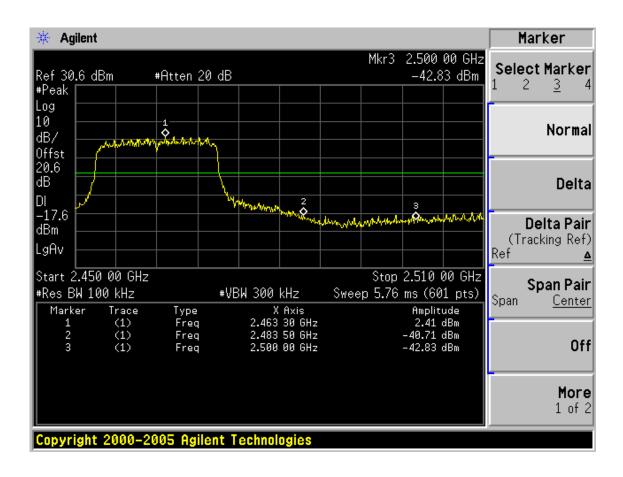


# Test CH6: 2437MHz



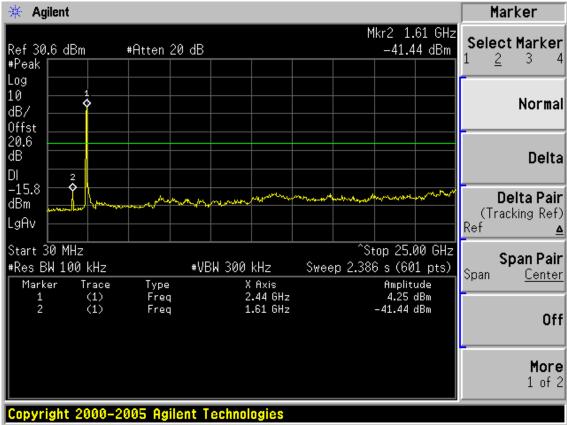
### Test CH11: 2462MHz

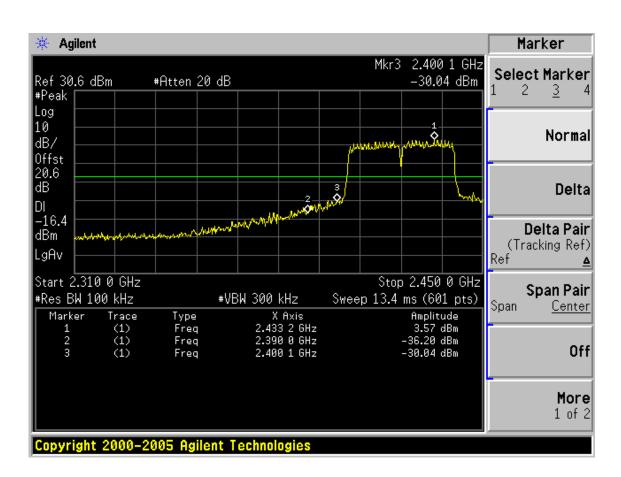




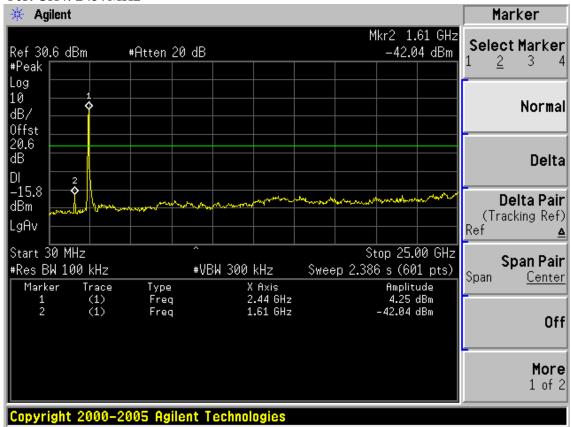
Test Mode: IEEE 802.11n HT40 TX

Test CH1: 2422MHz

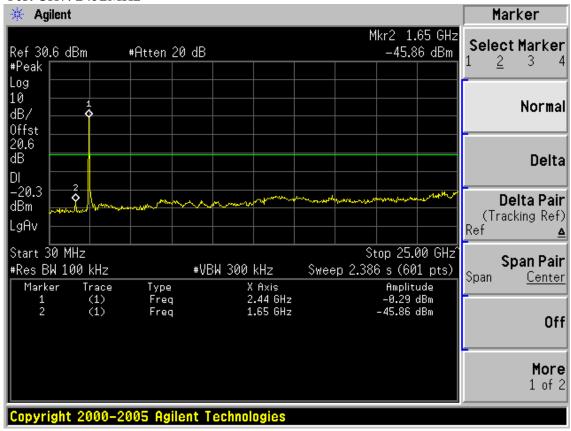


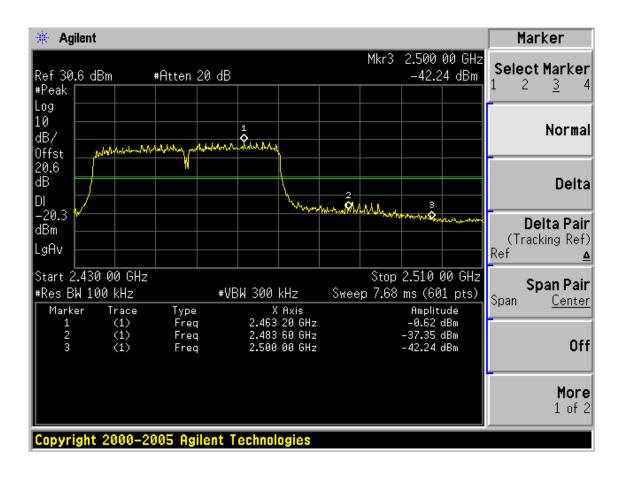


# Test CH4: 2437MHz



### Test CH7: 2452MHz





## 6. BAND EDGE COMPLIANCE TEST

# 6.1.Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	Agilent	E4446A	US44300459	May.08, 09	1 Year
2.	Horn Antenna	EMCO	3115	9607-4877	Nov.25, 09	1.5 Year
3.	Amplifier	Agilent	8449B	3008A02495	May.08, 09	1 Year
4.	RF Cable	Hubersuhner	SUCOFLEX 102	28620/2	May.08, 09	1 Year
5.	RF Cable	Hubersuhner	SUCOFLEX 102	271471/4	May.08, 09	1 Year
6.	RF Cable	Hubersuhner	SUCOFLEX 102	29086/2	May.08, 09	1 Year

## 6.2.Limit

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

## 6.3. Test Produce

- 1. The EUT is placed on a turntable, which is 0.8m above the ground plane and worked at highest radiated power.
- 2. The turntable was rotated for 360 degrees to determine the position of maximum emission level.
- 3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.
- 4. Set the spectrum analyzer in the following setting in order to capture the lower and upperband-edges of the emission:
  - (a) PEAK: RBW=1MHz; VBW=3MHz / Sweep=AUTO
  - (b) AVERAGE: RBW=1MHz / VBW=10Hz / Sweep=AUTO

# 6.4. Test Results

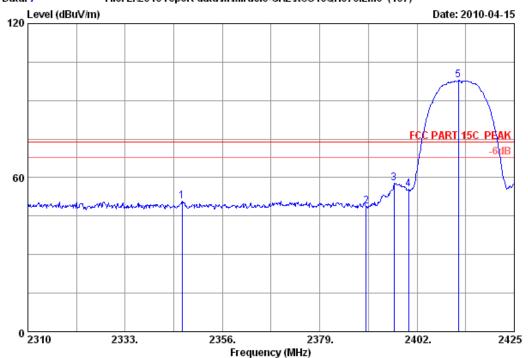
Pass (The testing data was attached in the next pages.)

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



Postcode:518057

## Data: 7 File: E:\2010 report data\M\Miracle-GRE\AC\$10QH070.EM6 (107)



Site no. : 3m Chamber Data no. : 7

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Leo-Li

EUT : Wireless Gaming Adapter

Power : DC 9V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11b CH1 2412MHz Tx

M/N : 4704

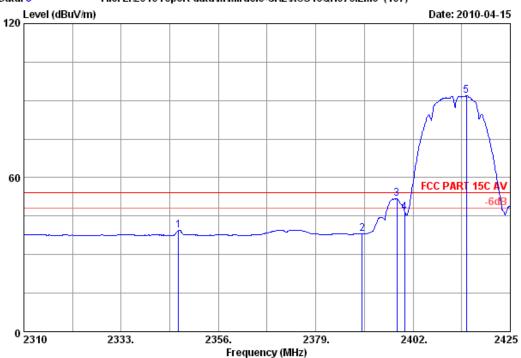
	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emissio: Level (dBuV/m)		Margin ) (dB)	Remark
1	2346.455	29.41	8.57	35.99	48.71	50.70	74.00	23.30	Peak
2	2390.000	29.44	8.67	36.09	46.77	48.79	74.00	25.21	Peak
3	2396.595	29.44	8.72	36.09	55.82	57.89	74.00	16.11	Peak
4	2400.000	29.44	8.72	36.09	53.31	55.38	74.00	18.62	Peak
5	2411.775	29.45	8.72	35.95	95.62	97.84	74.00	-23.84	Peak

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



Postcode:518057

## Data: 8 File: E:\2010 report data\M\Miracle-GRE\AC\$10QH070.EM6 (107)



Site no. : 3m Chamber Data no. : 8

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C AV

Env. / Ins. : 23\*C/54% Engineer : Leo-Li

EUT : Wireless Gaming Adapter

Power : DC 9V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11b CH1 2412MHz Tx

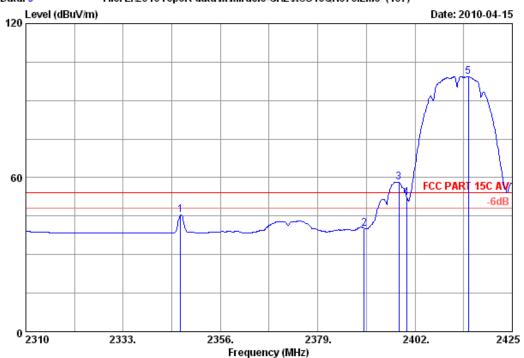
M/N : 4704

		Ant.	Cable	Amp.		Emissio:	n		
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m	) (dB)	
1	2346.570	29.41	8.62	35.99	37.55	39.59	54.00	14.41	Average
2	2390.000	29.44	8.67	36.09	36.12	38.14	54.00	15.86	Average
3	2398.205	29.44	8.72	36.09	49.77	51.84	54.00	2.16	Average
4	2400.000	29.44	8.72	36.09	44.43	46.50	54.00	7.50	Average
5	2414.650	29.45	8.72	35.95	89.60	91.82	54.00	-37.82	Average

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



## Data: 9 File: E:\2010 report data\M\Miracle-GRE\AC\$10QH070.EM6 (107)



Site no. : 3m Chamber Data no. : 9
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

Limit : FCC PART 15C AV

Env. / Ins. : 23\*C/54% Engineer : Leo-Li

EUT : Wireless Gaming Adapter

Power : DC 9V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11b CH1 2412MHz Tx

M/N : 4704

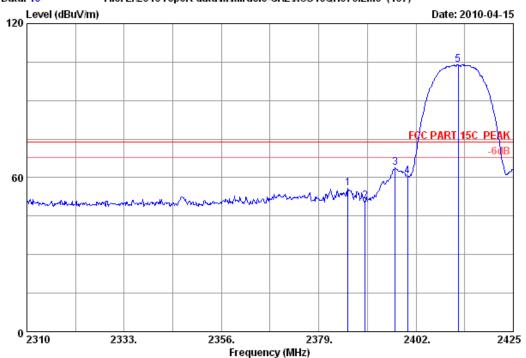
		Ant.	Cable	Amp.		Emissio	n		
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2346.570	29.41	8.62	35.99	43.34	45.38	54.00	8.62	Average
2	2390.000	29.44	8.67	36.09	38.22	40.24	54.00	13.76	Average
3	2398.205	29.44	8.72	36.09	56.23	58.30	54.00	-4.30	Average
4	2400.000	29.44	8.72	36.09	50.18	52.25	54.00	1.75	Average
5	2414.650	29.45	8.72	35.95	97.21	99.43	54.00	-45.43	Average

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



Postcode:518057





Site no. : 3m Chamber Data no. : 10
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Leo-Li

EUT : Wireless Gaming Adapter

Power : DC 9V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11b CH1 2412MHz Tx

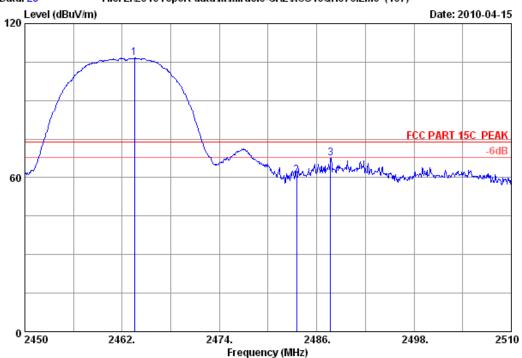
M/N : 4704

		Ant.	Cable	•					
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2385.900	29.44	8.67	36.09	53.65	55.67	74.00	18.33	Peak
2	2390.000	29.44	8.67	36.09	48.84	50.86	74.00	23.14	Peak
3	2397.055	29.44	8.72	36.09	61.65	63.72	74.00	10.28	Peak
4	2400.000	29.44	8.72	36.09	58.27	60.34	74.00	13.66	Peak
5	2412.005	29.45	8.72	35.95	101.81	104.03	74.00	-30.03	Peak

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



Data: 23 File: E:\2010 report data\M\Miracle-GRE\AC\$10QH070.EM6 (107)



Site no. : 3m Chamber Data no. : 23
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Leo-Li

EUT : Wireless Gaming Adapter

Power : DC 9V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11b CH11 2462MHz Tx

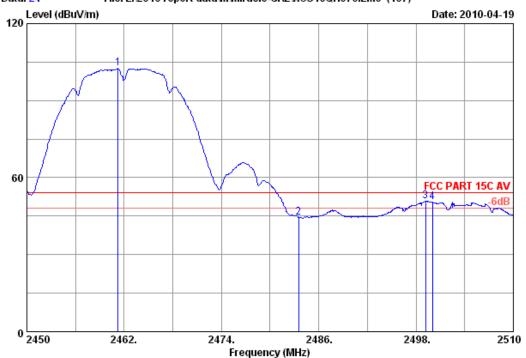
M/N : 4704

		Ant.	Cable	Amp.		Emissio:	n		
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m	) (dB)	
1	2463.500	29.48	8.82	36.02	104.27	106.55	74.00	-32.55	Peak
2	2483.500	29.49	8.87	35.97	58.30	60.69	74.00	13.31	Peak
3	2487.680	29.50	8.87	36.00	65.14	67.51	74.00	6.49	Peak

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



Data: 24 File: E:\2010 report data\M\Miracle-GRE\AC\$10QH070.EM6 (107)



Site no. : 3m Chamber Data no. : 24
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

Limit : FCC PART 15C AV

Env. / Ins. : 23\*C/54% Engineer : Leo-Li

EUT : Wireless Gaming Adapter

Power : DC 9V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11b CH11 2462MHz Tx

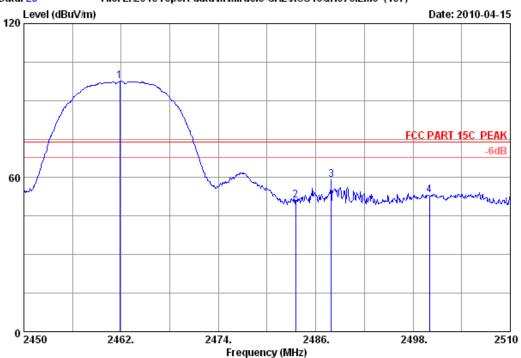
M/N : 4704

		Ant.	Cable	Amp.		Emissio	n		
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2461.220	29.48	8.82	36.02	100.17	102.45	54.00 -	-48.45	Average
2	2483.500	29.49	8.87	35.97	42.23	44.62	54.00	9.38	Average
3	2499.200	29.50	8.92	36.00	48.28	50.70	54.00	3.30	Average
4	2500.000	29.50	8.92	36.00	48.05	50.47	54.00	3.53	Average

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



Data: 25 File: E:\2010 report data\M\Miracle-GRE\AC\$10QH070.EM6 (107)



Site no. : 3m Chamber Data no. : 25

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Leo-Li

EUT : Wireless Gaming Adapter

Power : DC 9V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11b CH11 2462MHz Tx

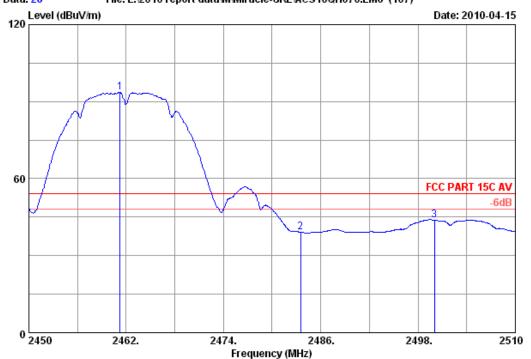
M/N : 4704

		Ant.	Cable	Amp.		Emissio:	n			
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m	) (dB)		
1	2461.820	29.48	8.82	36.02	95.21	97.49	74.00	-23.49	Peak	
2	2483.500	29.49	8.87	35.97	48.84	51.23	74.00	22.77	Peak	
3	2487.920	29.50	8.87	36.00	56.63	59.00	74.00	15.00	Peak	
4	2500.000	29.50	8.92	36.00	50.61	53.03	74.00	20.97	Peak	

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



Data: 26 File: E:\2010 report data\M\Miracle-GRE\ACS10QH070.EM6 (107)



Site no. : 3m Chamber Data no. : 26

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C AV

Env. / Ins. : 23\*C/54% Engineer : Leo-Li

EUT : Wireless Gaming Adapter

Power : DC 9V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11b CH11 2462MHz Tx

M/N : 4704

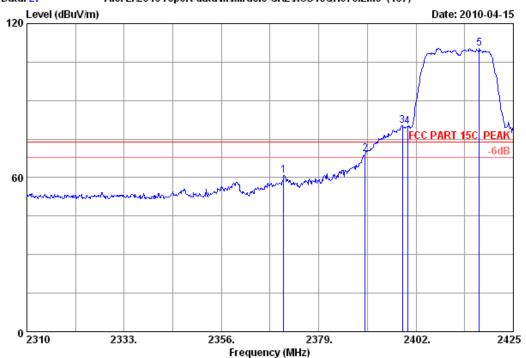
		Ant.	Cable	Amp.		Emissio	n		
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m	) (dB)	
1	2461.220	29.48	8.82	36.02	91.32	93.60	54.00	-39.60	Average
2	2483.500	29.49	8.87	35.97	36.70	39.09	54.00	14.91	Average
3	2500.000	29.50	8.92	36.00	41.36	43.78	54.00	10.22	Average

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



Postcode:518057

## Data: 27 File: E:\2010 report data\M\Miracle-GRE\AC\$10QH070.EM6 (107)



Site no. : 3m Chamber Data no. : 27
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Leo-Li

EUT : Wireless Gaming Adapter

Power : DC 9V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11g CH1 2412MHz Tx

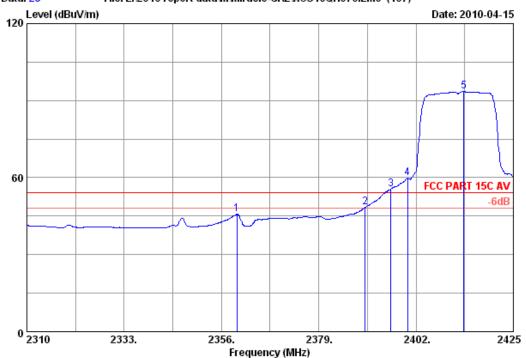
M/N : 4704

		Ant.	Cable	-					
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2370.720	29.43	8.62	36.00	58.83	60.88	74.00	13.12	Peak
2	2390.000	29.44	8.67	36.09	67.30	69.32	74.00	4.68	Peak
3	2398.780	29.44	8.72	36.09	78.28	80.35	74.00	-6.35	Peak
4	2400.000	29.44	8.72	36.09	77.78	79.85	74.00	-5.85	Peak
5	2416.950	29.45	8.72	35.95	108.10	110.32	74.00	-36.32	Peak

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



Data: 28 File: E:\2010 report data\M\Miracle-GRE\AC\$10QH070.EM6 (107)



Site no. : 3m Chamber Data no. : 28
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

Limit : FCC PART 15C AV

Env. / Ins. : 23\*C/54% Engineer : Leo-Li

EUT : Wireless Gaming Adapter

Power : DC 9V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11g CH1 2412MHz Tx

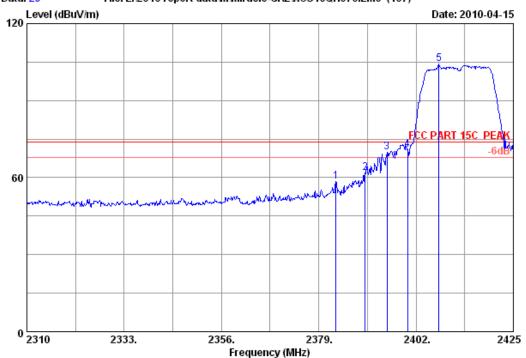
M/N : 4704

		Ant.	Cable	Amp.		Emissio:	n		
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2359.680	29.42	8.62	35.91	43.53	45.66	54.00	8.34	Average
2	2390.000	29.44	8.67	36.09	46.44	48.46	54.00	5.54	Average
3	2396.020	29.44	8.67	36.09	53.54	55.56	54.00	-1.56	Average
4	2400.000	29.44	8.72	36.09	57.60	59.67	54.00	-5.67	Average
5	2413.270	29.45	8.72	35.95	91.26	93.48	54.00	-39.48	Average

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







Site no. : 3m Chamber Data no. : 29

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Leo-Li

EUT : Wireless Gaming Adapter

Power : DC 9V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11g CH1 2412MHz Tx

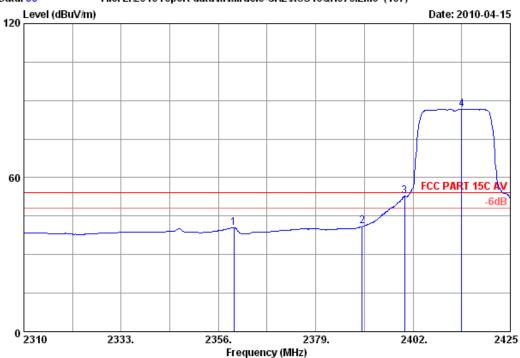
M/N : 4704

		Ant.	Cable	Amp.		Emissio	n		
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m	) (dB)	
1	2383.025	29.43	8.67	36.00	56.26	58.36	74.00	15.64	Peak
2	2390.000	29.44	8.67	36.09	59.69	61.71	74.00	12.29	Peak
3	2395.100	29.44	8.67	36.09	67.70	69.72	74.00	4.28	Peak
4	2400.000	29.44	8.72	36.09	68.63	70.70	74.00	3.30	Peak
5	2407.405	29.45	8.72	35.95	102.19	104.41	74.00	-30.41	Peak

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



Data: 30 File: E:\2010 report data\M\Miracle-GRE\AC\$10QH070.EM6 (107)



Site no. : 3m Chamber Data no. : 30

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C AV

Env. / Ins. : 23\*C/54% Engineer : Leo-Li

EUT : Wireless Gaming Adapter

Power : DC 9V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11g CH1 2412MHz Tx

M/N : 4704

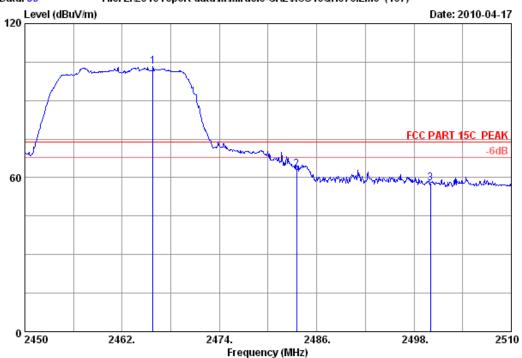
		Ant.	Cable	Amp.		Emissio:	n		
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2359.680	29.42	8.62	35.91	38.40	40.53	54.00	13.47	Average
2	2390.000	29.44	8.67	36.09	38.94	40.96	54.00	13.04	Average
3	2400.000	29.44	8.72	36.09	50.67	52.74	54.00	1.26	Average
4	2413.500	29.45	8.72	35.95	84.38	86.60	54.00 -	-32.60	Average

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



Postcode:518057

## Data: 39 File: E:\2010 report data\M\Miracle-GRE\AC\$10QH070.EM6 (107)



Site no. : 3m Chamber Data no. : 39

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Leo-Li

EUT : Wireless Gaming Adapter

Power : DC 9V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11g CH11 2462MHz Tx

M/N : 4704

		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	2465.780	29.48	8.82	36.02	100.84	103.12	74.00	-29.12	Peak
2	2483.500	29.49	8.87	35.97	60.88	63.27	74.00	10.73	Peak
3	2500.000	29.50	8.92	36.00	55.48	57.90	74.00	16.10	Peak

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



Data: 40 File: E:\2010 report data\M\Miracle-GRE\AC\$10QH070.EM6 (107)



Site no. : 3m Chamber Data no. : 40

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C AV

Env. / Ins. : 23\*C/54% Engineer : Leo-Li

EUT : Wireless Gaming Adapter

Power : DC 9V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11g CH11 2462MHz Tx

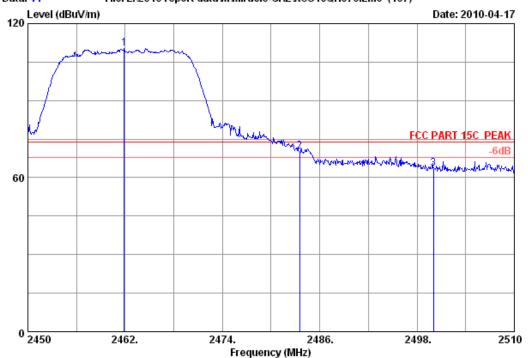
M/N : 4704

		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	2463.200	29.48	8.82	36.02	84.28	86.56	54.00	-32.56	Average
2	2483.500	29.49	8.87	35.97	44.51	46.90	54.00	7.10	Average
3	2500.000	29.50	8.92	36.00	42.51	44.93	54.00	9.07	Average
									_

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



## Data: 41 File: E:\2010 report data\M\Miracle-GRE\AC\$10QH070.EM6 (107)



Site no. : 3m Chamber Data no. : 41
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Leo-Li

EUT : Wireless Gaming Adapter

Power : DC 9V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11g CH11 2462MHz Tx

M/N : 4704

		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	2461.880	29.48	8.82	36.02	107.98	110.26	74.00	-36.26	Peak
2	2483.500	29.49	8.87	35.97	67.79	70.18	74.00	3.82	Peak
3	2500.000	29.50	8.92	36.00	61.24	63.66	74.00	10.34	Peak

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



Data: 42 File: E:\2010 report data\M\Miracle-GRE\AC\$10QH070.EM6 (107)



Site no. : 3m Chamber Data no. : 42
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

Limit : FCC PART 15C AV

Env. / Ins. : 23\*C/54% Engineer : Leo-Li

EUT : Wireless Gaming Adapter

Power : DC 9V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11g CH11 2462MHz Tx

M/N : 4704

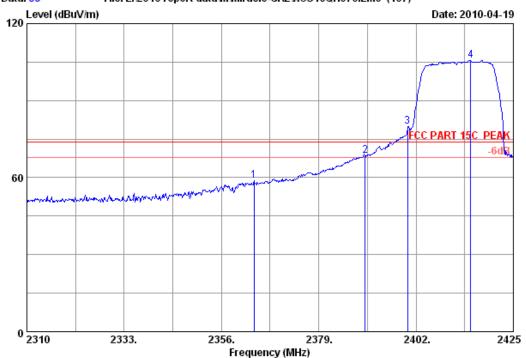
		Ant.	Cable	Amp. Emission					
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m	) (dB)	
1	2463.200	29.48	8.82	36.02	89.51	91.79	54.00	-37.79	Average
2	2483.500	29.49	8.87	35.97	48.99	51.38	54.00	2.62	Average
3	2500.000	29.50	8.92	36.00	47.44	49.86	54.00	4.14	Average
3	2500.000	29.50	8.92	36.00	47.44	49.86	54.00	4.14	Average

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



Postcode:518057





Site no. : 3m Chamber Data no. : 53

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Leo-Li

EUT : Wireless Gaming Adapter

Power : DC 9V From Adapter Input AC 120V/60Hz Test mode : IEEE802.11nHT20 CH1 2412MHz Tx

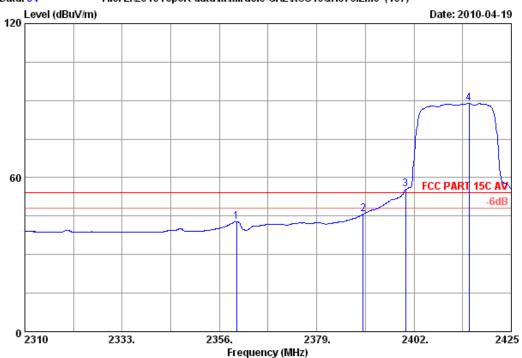
M/N : 4704

		Ant.	Cable	Amp.		Emissio:	n			
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	2363.705	29.42	8.62	35.91	56.61	58.74	74.00	15.26	Peak	
2	2390.000	29.44	8.67	36.09	66.37	68.39	74.00	5.61	Peak	
3	2400.000	29.44	8.72	36.09	77.89	79.96	74.00	-5.96	Peak	
4	2414.880	29.45	8.72	35.95	103.52	105.74	74.00 -	-31.74	Peak	

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



Data: 54 File: E:\2010 report data\M\Miracle-GRE\AC\$10QH070.EM6 (107)



Site no. : 3m Chamber Data no. : 54

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C AV

Env. / Ins. : 23\*C/54% Engineer : Leo-Li

EUT : Wireless Gaming Adapter

Power : DC 9V From Adapter Input AC 120V/60Hz Test mode : IEEE802.11nHT20 CH1 2412MHz Tx

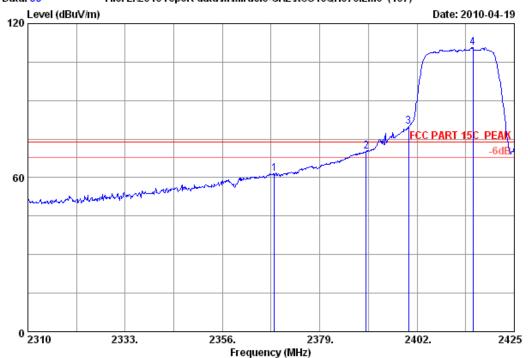
M/N : 4704

		Ant.	Cable	Amp.		Emissio:	n		
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m	) (dB)	
1	2360.025	29.42	8.62	35.91	40.78	42.91	54.00	11.09	Average
2	2390.000	29.44	8.67	36.09	43.72	45.74	54.00	8.26	Average
3	2400.000	29.44	8.72	36.09	53.34	55.41	54.00	-1.41	Average
4	2414.995	29.45	8.72	35.95	86.65	88.87	54.00	-34.87	Average

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







Site no. : 3m Chamber Data no. : 55
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Leo-Li

EUT : Wireless Gaming Adapter

Power : DC 9V From Adapter Input AC 120V/60Hz Test mode : IEEE802.11nHT20 CH1 2412MHz Tx

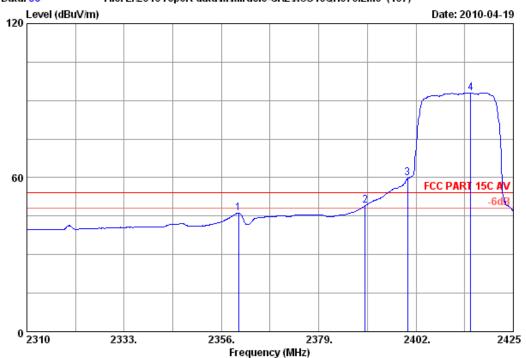
M/N : 4704

		Ant.	Cable	Amp.		Emissio:	n			
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m	(dB)		
1	2368.305	29.42	8.62	35.91	59.46	61.59	74.00	12.41	Peak	
2	2390.000	29.44	8.67	36.09	68.25	70.27	74.00	3.73	Peak	
3	2400.000	29.44	8.72	36.09	77.83	79.90	74.00	-5.90	Peak	
4	2415.225	29.45	8.72	35.95	108.45	110.67	74.00	-36.67	Peak	

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







Site no. : 3m Chamber Data no. : 56
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

Limit : FCC PART 15C AV

Env. / Ins. : 23\*C/54% Engineer : Leo-Li

EUT : Wireless Gaming Adapter

Power : DC 9V From Adapter Input AC 120V/60Hz Test mode : IEEE802.11nHT20 CH1 2412MHz Tx

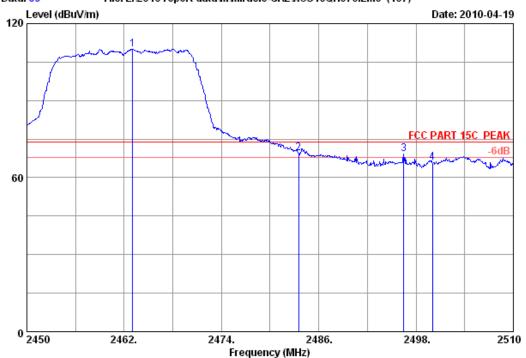
M/N : 4704

		Ant.	Cable	Amp.		Emissio:	n		
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2360.025	29.42	8.62	35.91	44.06	46.19	54.00	7.81	Average
2	2390.000	29.44	8.67	36.09	47.11	49.13	54.00	4.87	Average
3	2400.000	29.44	8.72	36.09	57.62	59.69	54.00	-5.69	Average
4	2414.880	29.45	8.72	35.95	90.82	93.04	54.00 -	-39.04	Average

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



## Data: 69 File: E:\2010 report data\M\Miracle-GRE\AC\$10QH070.EM6 (107)



Site no. : 3m Chamber Data no. : 69
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Leo-Li

EUT : Wireless Gaming Adapter

Power : DC 9V From Adapter Input AC 120V/60Hz Test mode : IEEE802.11nHT20 CH11 2462MHz Tx

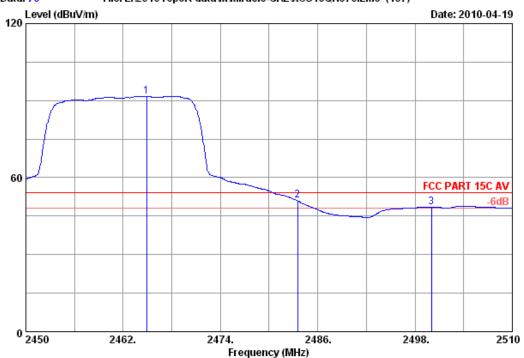
M/N : 4704

		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	2463.020	29.48	8.82	36.02	107.83	110.11	74.00 -	-36.11	Peak
2	2483.500	29.49	8.87	35.97	67.24	69.63	74.00	4.37	Peak
3	2496.500	29.50	8.87	36.00	66.90	69.27	74.00	4.73	Peak
4	2500.000	29.50	8.92	36.00	63.29	65.71	74.00	8.29	Peak

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



Data: 70 File: E:\2010 report data\M\Miracle-GRE\AC\$10QH070.EM6 (107)



Site no. : 3m Chamber Data no. : 70
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

Limit : FCC PART 15C AV

Env. / Ins. : 23\*C/54% Engineer : Leo-Li

EUT : Wireless Gaming Adapter

Power : DC 9V From Adapter Input AC 120V/60Hz Test mode : IEEE802.11nHT20 CH11 2462MHz Tx

M/N : 4704

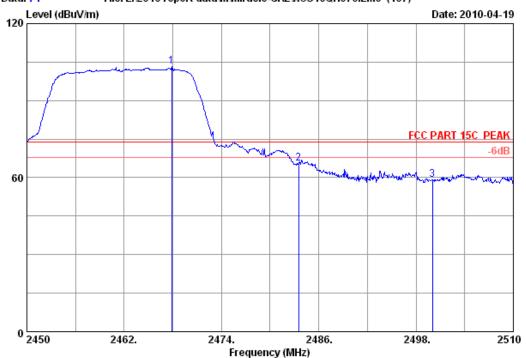
		Ant.	Cable	Amp.		Emissio:	n		
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m	) (dB)	
1	2464.880	29.48	8.82	36.02	89.43	91.71	54.00	-37.71	Average
2	2483.500	29.49	8.87	35.97	48.61	51.00	54.00	3.00	Average
3	2500.000	29.50	8.92	36.00	46.11	48.53	54.00	5.47	Average

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



Postcode:518057

Data: 71 File: E:\2010 report data\M\Miracle-GRE\AC\$10QH070.EM6 (107)



Site no. : 3m Chamber Data no. : 71

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Leo-Li

EUT : Wireless Gaming Adapter

Power : DC 9V From Adapter Input AC 120V/60Hz Test mode : IEEE802.11nHT20 CH11 2462MHz Tx

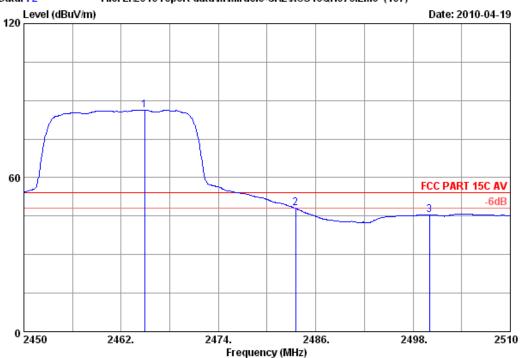
M/N : 4704

		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	2467.880	29.48	8.82	36.02	101.03	103.31	74.00	-29.31	Peak
2	2483.500	29.49	8.87	35.97	63.14	65.53	74.00	8.47	Peak
3	2500.000	29.50	8.92	36.00	56.79	59.21	74.00	14.79	Peak

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



Data: 72 File: E:\2010 report data\M\Miracle-GRE\AC\$10QH070.EM6 (107)



Site no. : 3m Chamber Data no. : 72

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C AV

Env. / Ins. : 23\*C/54% Engineer : Leo-Li

EUT : Wireless Gaming Adapter

Power : DC 9V From Adapter Input AC 120V/60Hz Test mode : IEEE802.11nHT20 CH11 2462MHz Tx

M/N : 4704

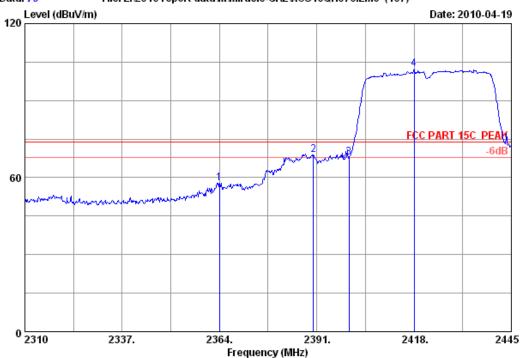
		Ant.	Cable	Amp.		Emissio:	n		
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m	) (dB)	
1	2464.880	29.48	8.82	36.02	83.99	86.27	54.00	-32.27	Average
2	2483.500	29.49	8.87	35.97	45.65	48.04	54.00	5.96	Average
3	2500.000	29.50	8.92	36.00	42.96	45.38	54.00	8.62	Average

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



Postcode:518057





Site no. : 3m Chamber Data no. : 79

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Leo-Li

EUT : Wireless Gaming Adapter

Power : DC 9V From Adapter Input AC 120V/60Hz Test mode : IEEE802.11nHT40 CH1 2422MHz Tx

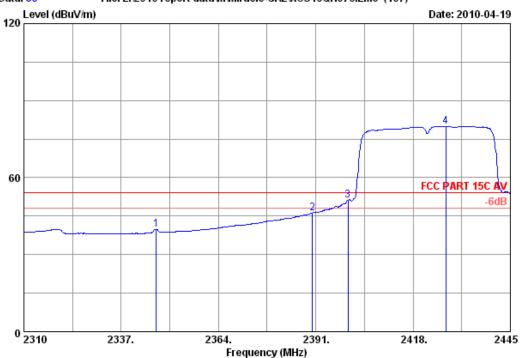
M/N : 4704

		Ant.	Cable	Amp.		Emissio:	n			
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	2364.000	29.42	8.62	35.91	55.85	57.98	74.00	16.02	Peak	
2	2390.000	29.44	8.67	36.09	66.67	68.69	74.00	5.31	Peak	
3	2400.000	29.44	8.72	36.09	65.64	67.71	74.00	6.29	Peak	
4	2418.000	29.45	8.72	35.95	100.09	102.31	74.00 -	-28.31	Peak	

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



Data: 80 File: E:\2010 report data\M\Miracle-GRE\AC\$10QH070.EM6 (107)



Site no. : 3m Chamber Data no. : 80

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C AV

Env. / Ins. : 23\*C/54% Engineer : Leo-Li

EUT : Wireless Gaming Adapter

Power : DC 9V From Adapter Input AC 120V/60Hz Test mode : IEEE802.11nHT40 CH1 2422MHz Tx

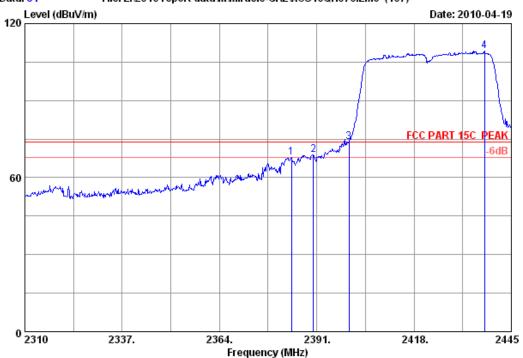
M/N : 4704

		Ant.	Cable	Amp.		Emissio:	n		
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2346.720	29.41	8.62	35.99	37.90	39.94	54.00	14.06	Average
2	2390.000	29.44	8.67	36.09	44.26	46.28	54.00	7.72	Average
3	2400.000	29.44	8.72	36.09	49.23	51.30	54.00	2.70	Average
4	2427.045	29.46	8.77	36.01	77.79	80.01	54.00 -	-26.01	Average

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







Site no. : 3m Chamber Data no. : 81
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Leo-Li

EUT : Wireless Gaming Adapter

Power : DC 9V From Adapter Input AC 120V/60Hz Test mode : IEEE802.11nHT40 CH1 2422MHz Tx

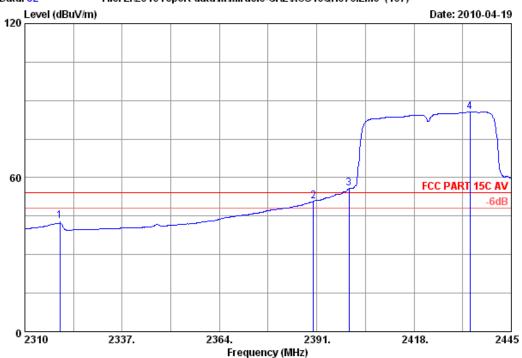
M/N : 4704

		Ant.	Cable	Amp.		Emissio:	n		
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2383.980	29.43	8.67	36.00	65.80	67.90	74.00	6.10	Peak
2	2390.000	29.44	8.67	36.09	66.76	68.78	74.00	5.22	Peak
3	2400.000	29.44	8.72	36.09	71.74	73.81	74.00	0.19	Peak
4	2437.575	29.47	8.77	36.06	107.22	109.40	74.00	-35.40	Peak

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



Data: 82 File: E:\2010 report data\M\Miracle-GRE\AC\$10QH070.EM6 (107)



Site no. : 3m Chamber Data no. : 82
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

Limit : FCC PART 15C AV

Env. / Ins. : 23\*C/54% Engineer : Leo-Li

EUT : Wireless Gaming Adapter

Power : DC 9V From Adapter Input AC 120V/60Hz Test mode : IEEE802.11nHT40 CH1 2422MHz Tx

M/N : 4704

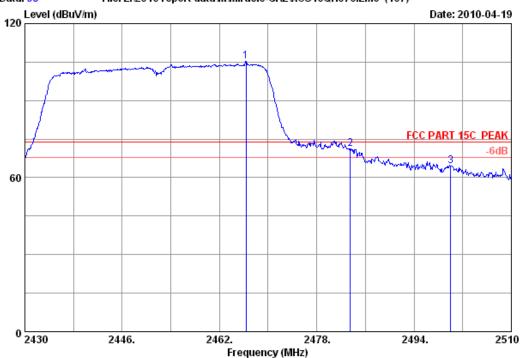
		Ant.	Cable	Amp.		Emissio:	n		
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m	(dB)	
1	2319.720	29.40	8.52	36.06	41.20	43.06	54.00	10.94	Average
2	2390.000	29.44	8.67	36.09	48.81	50.83	54.00	3.17	Average
3	2400.000	29.44	8.72	36.09	53.84	55.91	54.00	-1.91	Average
4	2433.525	29.46	8.77	36.01	83.34	85.56	54.00	-31.56	Average

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



Postcode:518057

## Data: 95 File: E:\2010 report data\M\Miracle-GRE\AC\$10QH070.EM6 (107)



Site no. : 3m Chamber Data no. : 95
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Leo-Li

EUT : Wireless Gaming Adapter

Power : DC 9V From Adapter Input AC 120V/60Hz Test mode : IEEE802.11nHT40 CH7 2452MHz Tx

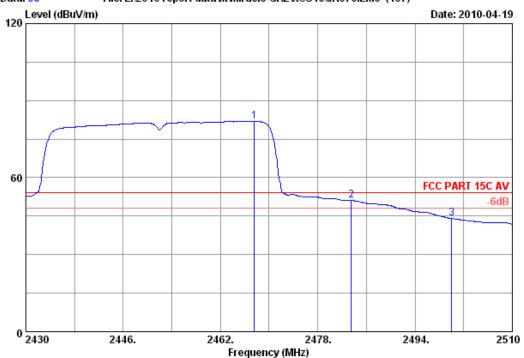
M/N : 4704

		Ant.	Cable	Amp.		Emissio:	n		
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m	) (dB)	
1	2466.400	29.48	8.82	36.02	102.97	105.25	74.00	-31.25	Peak
2	2483.500	29.49	8.87	35.97	68.88	71.27	74.00	2.73	Peak
3	2500.000	29.50	8.92	36.00	62.14	64.56	74.00	9.44	Peak

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







Site no. : 3m Chamber Data no. : 96
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

Limit : FCC PART 15C AV

Env. / Ins. : 23\*C/54% Engineer : Leo-Li

EUT : Wireless Gaming Adapter

Power : DC 9V From Adapter Input AC 120V/60Hz Test mode : IEEE802.11nHT40 CH7 2452MHz Tx

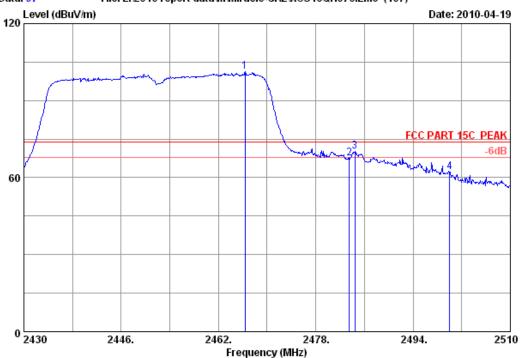
M/N : 4704

		Ant.	Cable	Amp.		Emissio:	n		
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m	) (dB)	
1	2467.600	29.48	8.82	36.02	79.74	82.02	54.00	-28.02	Average
2	2483.500	29.49	8.87	35.97	48.82	51.21	54.00	2.79	Average
3	2500.000	29.50	8.92	36.00	41.72	44.14	54.00	9.86	Average

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



Data: 97 File: E:\2010 report data\M\Miracle-GRE\AC\$10QH070.EM6 (107)



Site no. : 3m Chamber Data no. : 97

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23\*C/54% Engineer : Leo-Li

EUT : Wireless Gaming Adapter

Power : DC 9V From Adapter Input AC 120V/60Hz Test mode : IEEE802.11nHT40 CH7 2452MHz Tx

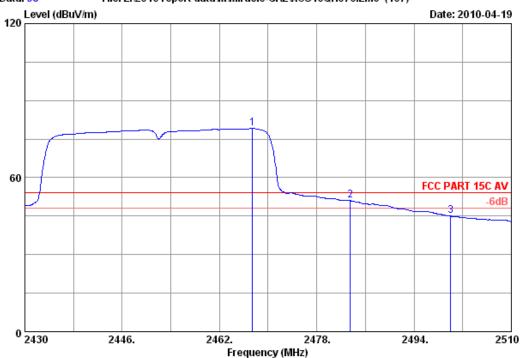
M/N : 4704

		Ant.	Cable	Amp.		Emissio:	n		
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m	) (dB)	
1	2466.400	29.48	8.82	36.02	98.92	101.20	74.00	-27.20	Peak
2	2483.500	29.49	8.87	35.97	65.17	67.56	74.00	6.44	Peak
3	2484.400	29.49	8.87	35.97	67.84	70.23	74.00	3.77	Peak
4	2500.000	29.50	8.92	36.00	59.80	62.22	74.00	11.78	Peak

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



Data: 98 File: E:\2010 report data\M\Miracle-GRE\AC\$10QH070.EM6 (107)



Site no. : 3m Chamber Data no. : 98

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C AV

Env. / Ins. : 23\*C/54% Engineer : Leo-Li

EUT : Wireless Gaming Adapter

Power : DC 9V From Adapter Input AC 120V/60Hz Test mode : IEEE802.11nHT40 CH7 2452MHz Tx

M/N : 4704

		Ant.	Cable	Amp.		Emissio:	n		
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m	) (dB)	
1	2467.440	29.48	8.82	36.02	76.83	79.11	54.00	-25.11	Average
2	2483.500	29.49	8.87	35.97	48.64	51.03	54.00	2.97	Average
3	2500.000	29.50	8.92	36.00	42.60	45.02	54.00	8.98	Average

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

# 7. 6dB Bandwidth Test

# 7.1.Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.
						Interval
1.	Spectrum Analyzer	Agilent	E4446A	US44300459	May.08, 09	1 Year
2.	Attenuator	Agilent	8491B	MY39262165	May.08, 09	1 Year
3.	RF Cable	Hubersuhner	SUCOFLEX 102	28618/2	May.08, 09	1Year

# 7.2.Limit

For direct sequence systems, the minimum 6dB bandwidth shall be at least 500kHz

# 7.3.Test Procedure

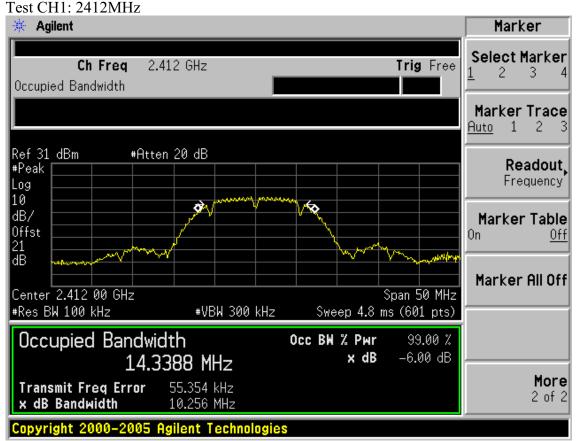
The transmitter output was connected to a spectrum analyzer, The bandwidth of the fundamental frequency was measured by spectrum analyzer with 100kHz RBW and 300 kHz VBW. The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.

## 7.4. Test Results

EUT: Wireless Gaming Ada	oter					
M/N: 4704						
Test date:2010-04-19	Pressure:100.6 kpa	Humidity: 71%				
Tested by: Leo Li	Test site: RF site	Temperature: 25 °C				

Cable loss: 0.6	dB	Attenuator loss:20.0 dB	Antenna Gain:3 dBi
Test Mode	СН	6dB bandwidth (KHz)	Limit (KHz)
	CH1	10256	>500
11b	CH6	11174	>500
	CH11	12576	>500
	CH1	15953	>500
11g	CH6	15979	>500
	CH11	15763	>500
11	CH1	16101	>500
11n HT20	CH6	16953	>500
11120	CH11	16932	>500
11	CH1	35379	>500
11n HT40	CH4	35479	>500
11140	CH7	35476	>500
Conclusion: PA	ASS		

Test Mode: IEEE 802.11b TX



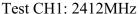
Test CH6: 2437MHz

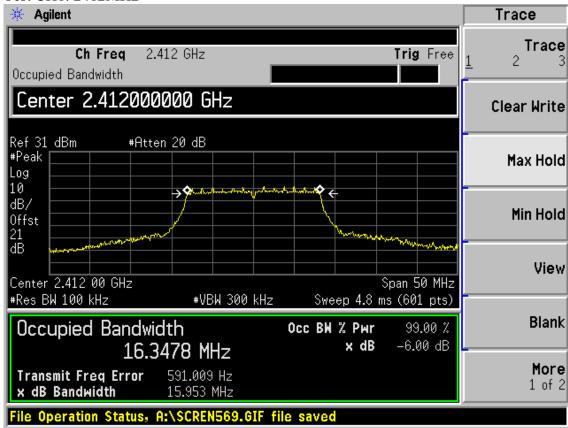


Test CH11: 2462MHz

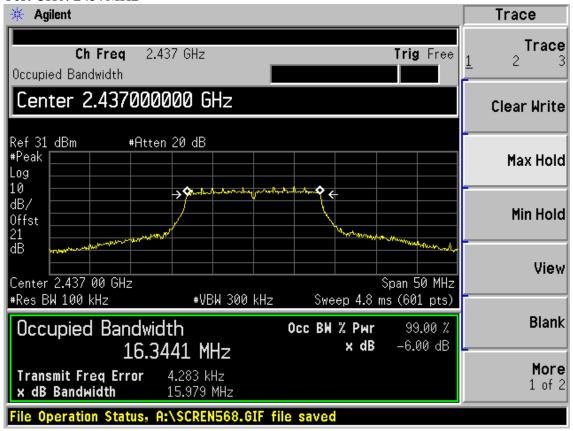


Test Mode: IEEE 802.11g TX

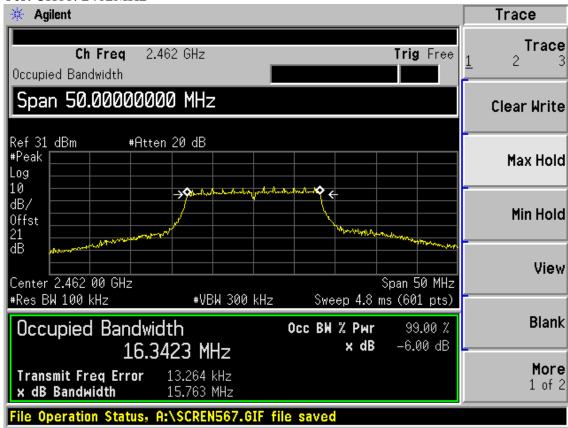




Test CH6: 2437MHz

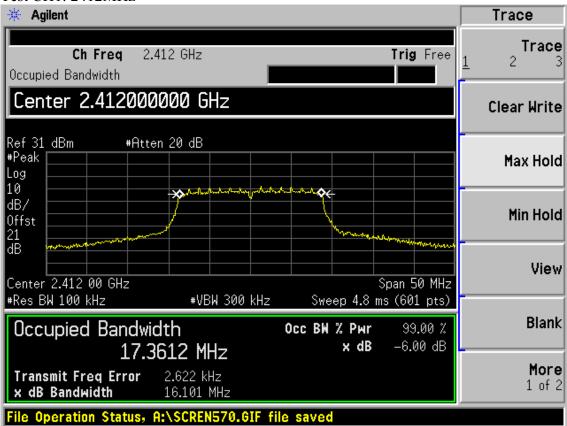


### Test CH11: 2462MHz

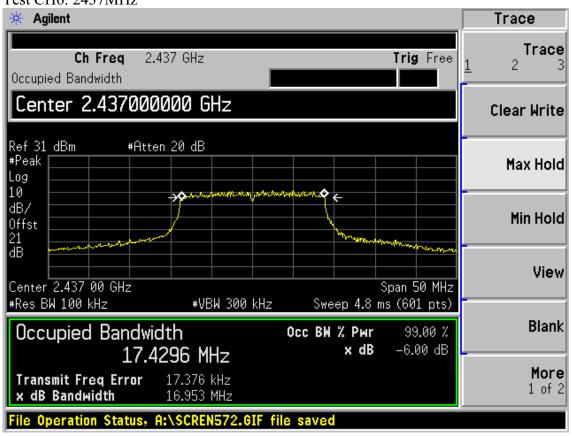


Test Mode: IEEE 802.11n HT20 TX

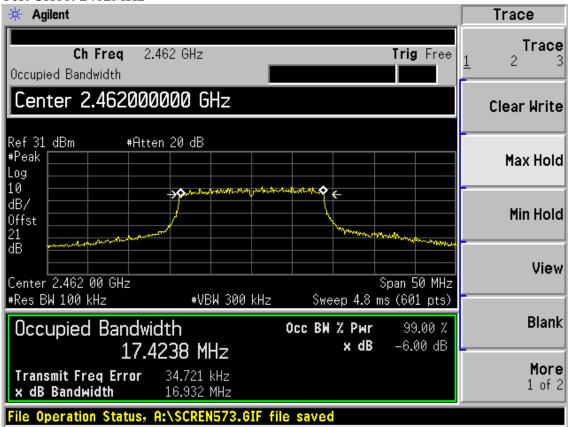
Test CH1: 2412MHz



Test CH6: 2437MHz

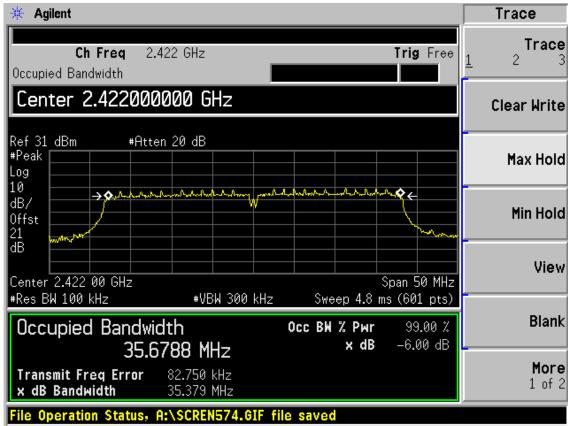


Test CH11: 2462MHz

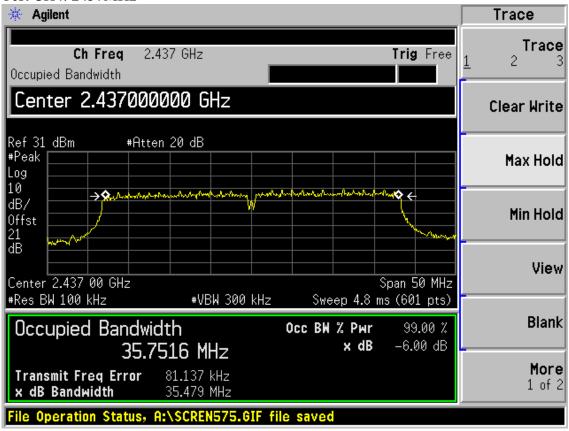


Test Mode: IEEE 802.11n HT40 TX

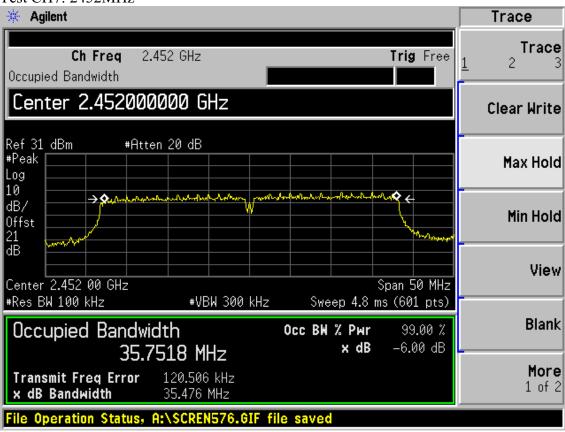
Test CH1: 2422MHz



Test CH4: 2437MHz



Test CH7: 2452MHz



### 8. OUTPUT POWER TEST

### 8.1.Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Spectrum Analyzer	Agilent	E4446A	US44300459	May.08, 09	1 Year
2	Power meter	Anritsu	ML2487A	6K00002472	Oct.20.09	1Year
3	Power sensor	Anritsu	MA2491A	0033005	Oct.20.09	1Year
4	Attenuator	Agilent	8491B	MY39262165	May.08, 09	1 Year
5	RF Cable	Hubersuhner	SUCOFLEX 102	28618/2	May.08, 09	1Year

### 8.2.Limit

For systems using digital modulation in the 2400—2483.5MHz, The Peak out put Power shall not exceed 1W(30dBm)

### 8.3.Test Procedure

- 1, Connected the EUT's antenna port to measure device by 20dB attenuator.
- 2, For IEEE 802.11b/g and IEEE802.11n HT20 mode, use a PK power meter which's bandwidth is above 6dB bandwidth of signal to measure out each each test modes and chain's PK output power.
- 3, For IEEE802.11n HT40 mode, because the signal's bandwidth is about 40MHz and above 20MHz bandwidth of power sensor ML2491A. So the channel power measure function of Spectrum Analyzer was used to measure out the PK output power of each test modes and chain's.
- 4, For IEEE802.11n mode, it's MIMO technology, so account total PK output power by add each chain's PK output power.

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

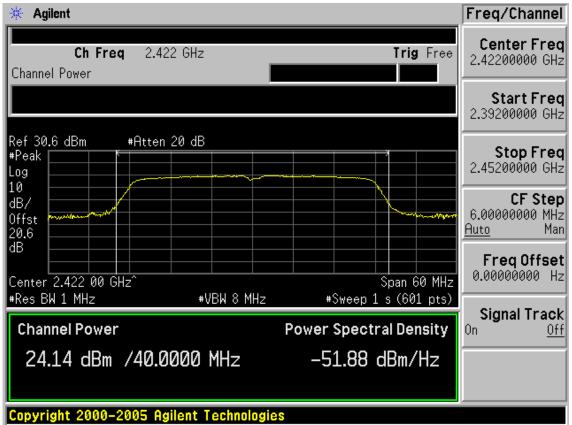
## 8.4.Test Results

EUT: Wireless Gaming Adapter						
M/N: 4704						
Test date:2010-04-19	Pressure: 100.6	kpa	Humidity: 70 %			
Tested by: Leo Li	Test site: RF site		Temperature: 25 °C			

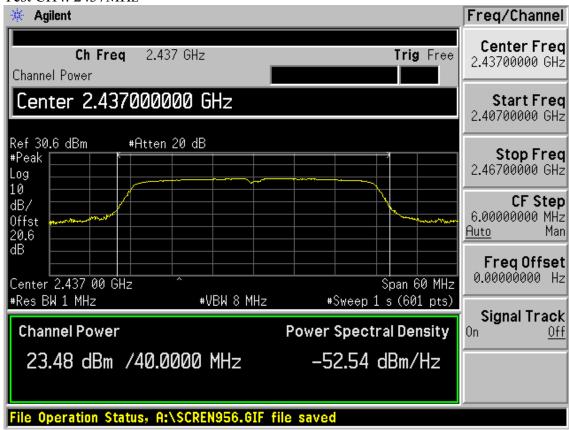
Cable loss:0.6 d	В	Attenuator loss: 20.0 dB	Antenna Gain:3 dBi	
Test Mode CH		Peak output Power (dBm)	Limit (dBm)	
	CH1	15.09	30	
11b	CH6	15.39	30	
	CH11	15.12	30	
	CH1	25.27	30	
11g	CH6	25.18	30	
	CH11	23.04	30	
1.1	CH1	24.98	30	
11n HT20	CH6	24.13	30	
11120	CH11	22.13	30	
11	CH1	24.14	30	
11n HT40	CH4	23.48	30	
11140	CH7	21.74	30	
Conclusion: PASS				

Test Mode: IEEE 802.11n HT40 TX

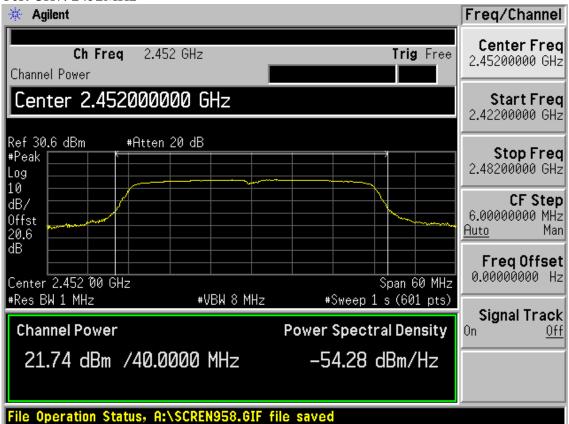
Test CH1: 2422MHz



#### Test CH4: 2437MHz



### Test CH7: 2452MHz



### 9. POWER SPECTRAL DENSITY TEST

### 9.1.Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	Agilent	E4446A	US44300459	May.08, 09	1 Year
2.	Attenuator	Agilent	8491B	MY39262165	May.08, 09	1 Year
3.	RF Cable	Hubersuhner	SUCOFLEX 102	28618/2	May.08, 09	1Year

### 9.2.Limit

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band during any time interval of continuous transmission.

### 9.3. Test Procedure

- 1, Connected the EUT's antenna port to spectrum analyzer device by 20dB attenuator.
- 2, Follow the test procedure as described in ANSI C.10: 2009 Clause 6.11.2.3 to measure out each test modes and chain's power density with 3KHz.
- 3, For IEEE802.11n mode, it's MIMO technology, so account total power density by add each chain's power density.

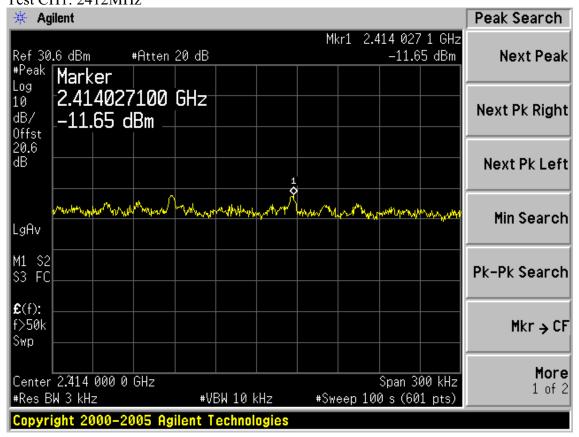
Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

### 9.4. Test Results

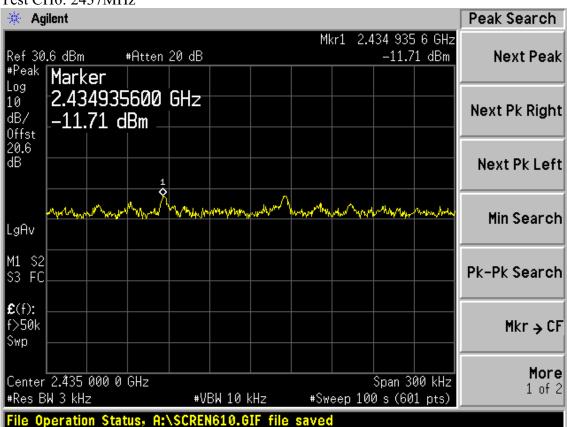
EUT: Wireless Gaming Adapter					
M/N: 4704	M/N: 4704				
Test date:2010-04-19	Pressure: 100.6 kpa	Humidity:71 %			
Tested by:Leo Li	Test site:RF site	Temperature : 25 °C			

Cable loss: 0.6 dB		Attenuator loss:20.0 dB	Antenna Gain:3.0 dBi
Test Mode CH		Power density (dBm/3KHz)	Limit (dBm/3KHz)
	CH1	-11.65	8
11b	CH6	-11.71	8
	CH11	-11.53	8
	CH1	-8.95	8
11g	CH6	-11.21	8
	CH11	-13.20	8
11	CH1	-10.74	8
11n HT20	CH6	-10.18	8
11120	CH11	-13.58	8
11n HT40	CH1	-8.25	8
	CH4	-10.94	8
	CH7	-14.88	8
Conclusion: PA	ASS		

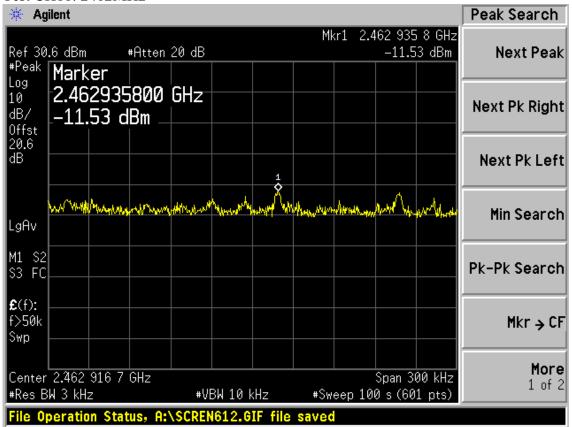
Test Mode: IEEE 802.11b TX Test CH1: 2412MHz



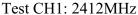
Test CH6: 2437MHz

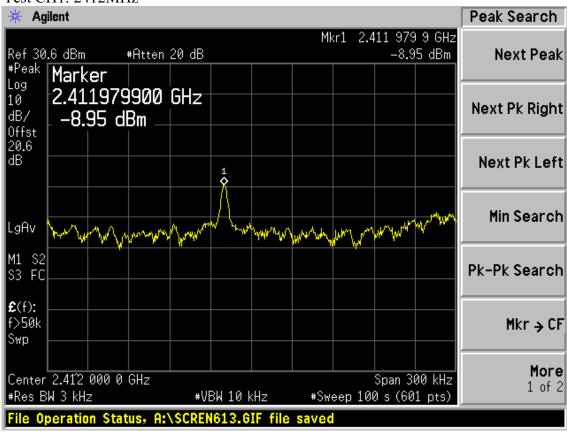


Test CH11: 2462MHz

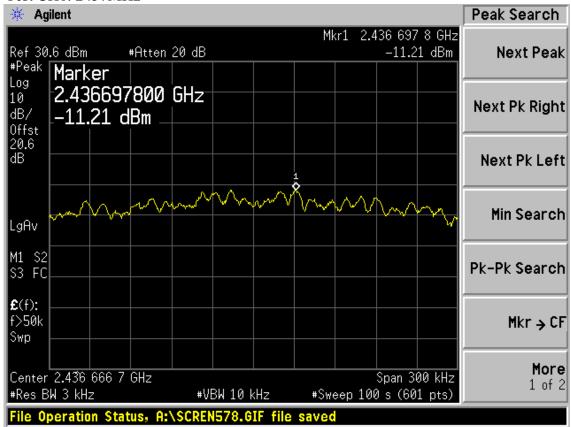


Test Mode: IEEE 802.11g TX

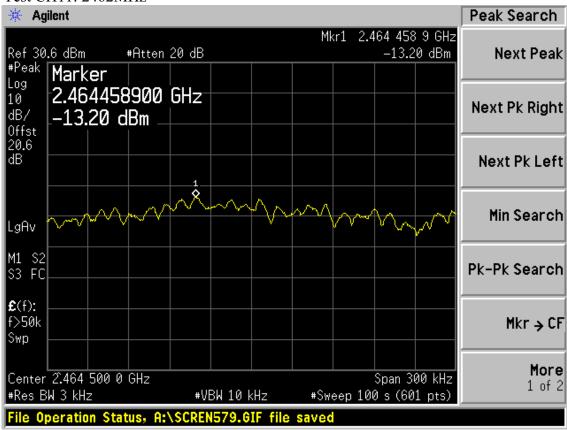




### Test CH6: 2437MHz

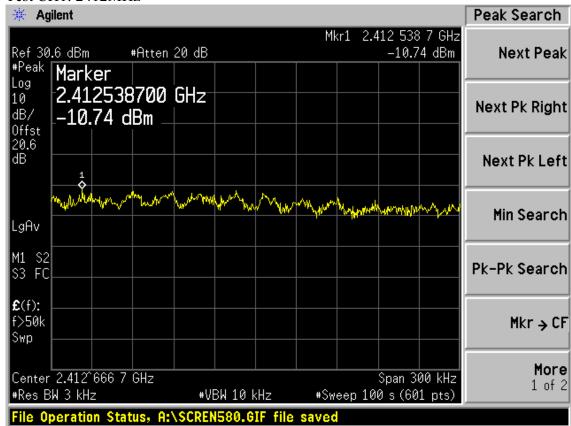


### Test CH11: 2462MHz

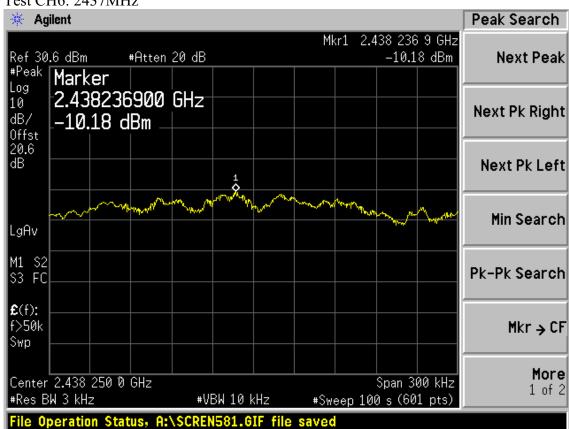


Test Mode: IEEE 802.11n HT20 TX

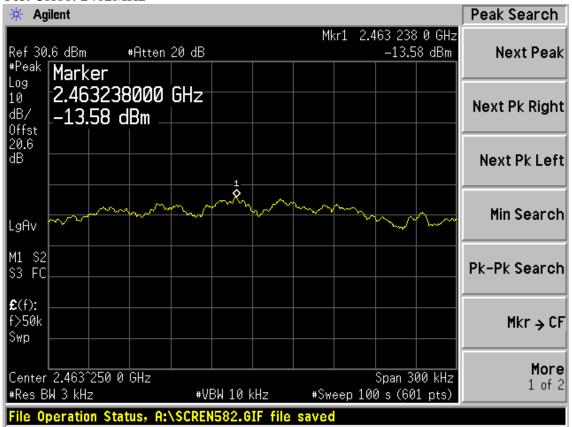
Test CH1: 2412MHz



Test CH6: 2437MHz

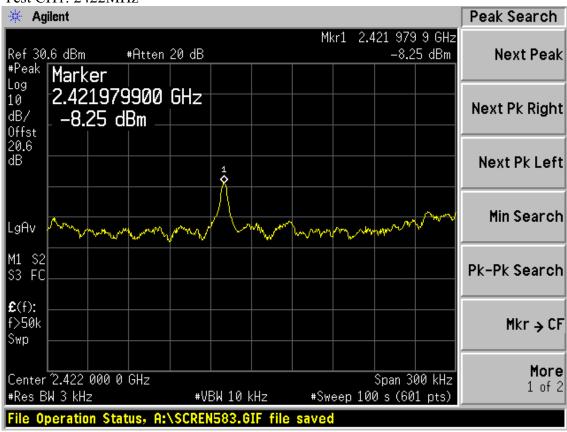


Test CH11: 2462MHz

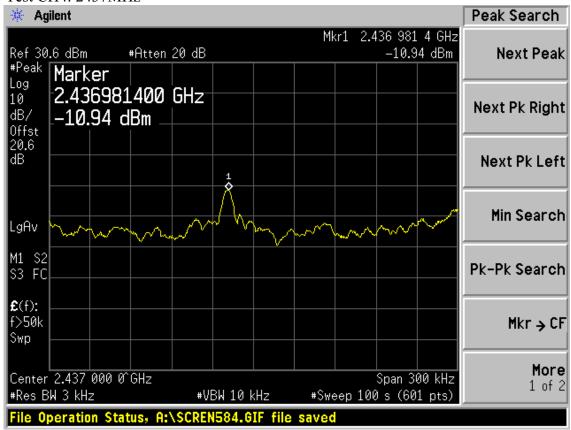


Test Mode: IEEE 802.11n HT40 TX

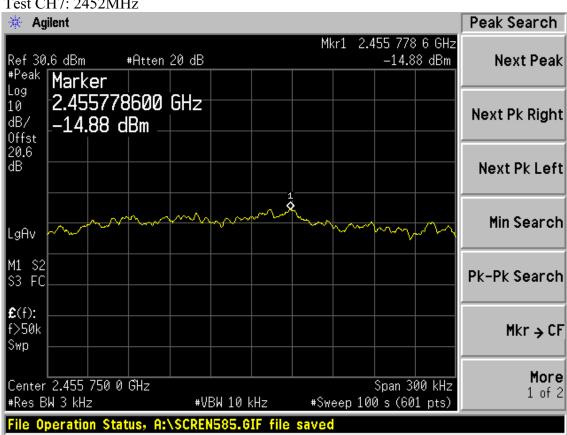
Test CH1: 2422MHz



Test CH4: 2437MHz



### Test CH7: 2452MHz



### 10. ANTENNA REQUIREMENT

### 10.1 STANDARD APPLICABLE

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

### 10.2 ANTENNA CONNECTED CONSTRUCTION

The antennas used for this product are a dipole antenna with SMA-B connector and that no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is only 3dBi.

## 11.MPE ESTIMATION

## 11.1.Limit for General Population/ Uncontrolled Exposures

Frequency	Power density (mW/cm <sup>2</sup> )	Averaging time(minutes)	
300MHz1.5GHz	F/1500	30	
1.5GHz100GHz	1.0	30	

Frequency(MHz)	Power density (mW/ cm <sup>2</sup> )	Averaging time(minutes)	
2412	1	30	
2437	1	30	
2462	1	30	

Note: F= Frequency in MHz

### 11.2.Estimation Result

Mode	СН	Frequency (MHz)	PK Output power (dBm)	Output power (mW)	Antenna Gain (dBi)	Antenna Gain(linear)	MPE (mW/ cm2 )
	1	2412	15.09	32.28	3	2.00	0.0128
11b	6	2437	15.39	34.59	3	2.00	0.0137
	11	2462	15.12	32.51	3	2.00	0.0129
	1	2412	25.27	336.51	3	2.00	0.1336
11g	6	2437	25.18	329.61	3	2.00	0.1309
	11	2462	23.04	201.37	3	2.00	0.0800
11n	1	2412	24.98	314.77	3	2.00	0.1250
HT20	6	2437	24.13	258.82	3	2.00	0.1028
11120	11	2462	22.13	163.31	3	2.00	0.0649
11n HT40	1	2422	24.14	259.42	3	2.00	0.1030
	4	2437	23.48	222.84	3	2.00	0.0885
	7	2452	21.74	149.28	3	2.00	0.0593

Note: The estimation distance is 20cm

# 12.DEVIATION TO TEST SPECIFICATIONS

[NONE]