

APPLICATION FOR CERTIFICATION
On Behalf of

Jing Mold Electronics Technology (Shen Zhen) CO., LTD.

Wireless Keyboard

Model Number: JME-8279R

FCC ID: FPWJME8279R

Prepared for : Jing Mold Electronics Technology (Shen Zhen) CO., LTD.
Xinqiao, 3rd Industrial Estate, Shajing Baoan, Shenzhen,
China

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

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

Report Number : ACS-F09138
Date of Test : Jul.01~03, 2009
Date of Report : Jul.10, 2009

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TEST REPORT CERTIFICATION

Applicant : Jing Mold Electronics Technology (Shen Zhen) CO., LTD.
Manufacturer : Jing Mold Electronics Technology (Shen Zhen) CO., LTD.
EUT Description : Wireless Keyboard
FCC ID : FPWJME8279R
(A) MODEL NO. : JME-8279R
(B) SERIAL NO. : N/A
(C) POWER SUPPLY : DC 3V
(D) TEST VOLTAGE : DC 3V

Test Procedure Used:

FCC Rules and Regulations Part 15 Subpart C 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 :

Jul.01~03, 2009

Prepared by :

Edie Huang
Edie Huang / Assistant

Reviewer :

Jamy Yu
Jamy Yu / Senior Engineer

Approved & Authorized Signer :

	信華科技(深圳)有限公司 Audix Technology (Shenzhen) Co., Ltd. EMC 部門報告專用章 Stamp only for EMC Dept. Report Signature: <u>Ken Lu 7/13/09</u>
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Ken Lu / Manager

1. SUMMARY OF STANDARDS AND RESULTS

1.1. Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below.

EMISSION		
Description of Test Item	Standard	Results
Power Line Conducted Emission Test	FCC Part 15C: 15.207 ANSI C63.4-2003	N/A
Radiated Emission Test	FCC Part 15C: 15.209 FCC Part 15C: 15.249 ANSI C63.4-2003	PASS
Band Edge Compliance Test	FCC Part 15: 15.249	PASS
20dB Bandwidth Test	FCC Part 15: 15.215	PASS
N/A is an abbreviation for Not Applicable.		

2. GENERAL INFORMATION

2.1. Description of Device (EUT)

Product name	: Wireless Keyboard
Model Number	: JME-8279R
FCC ID	: FPWJME8279R
Operation frequency	: 2410MHz~2473MHz
Modulation mode	: MSK
Power Supply	: DC 3V (Note: New batteries were used for all test.)
Applicant	: Jing Mold Electronics Technology (Shen Zhen) CO., LTD. Xinqiao, 3rd Industrial Estate, Shajing Baoan, Shenzhen, China
Manufacturer	: Jing Mold Electronics Technology (Shen Zhen) CO., LTD. Xinqiao, 3rd Industrial Estate, Shajing Baoan, Shenzhen, China
Date of Test	: Jul.01~03, 2009
Date of Receipt	: Jul.01, 2009
Sample Type	: Series production

2.2. Test Facility

Site Description

Name of Firm	:	Audix Technology (Shenzhen) Co., Ltd. No. 6, Ke Feng Rd., 52 Block, Shenzhen Science & Industrial Park, Nantou, Shenzhen, Guangdong, China
3m Anechoic Chamber	:	Mar.31, 2009 File on Federal Communication Commission Registration Number: 90454
3m & 10m Anechoic Chamber	:	Jan. 31, 2007 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, 2009

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

Test Item	Uncertainty
Uncertainty for Radiated Spurious Emission test	2.04 dB (Bilog antenna 30M~1000MHz)
	2.02 dB (Horn antenna 1000M~12750MHz)
Uncertainty for Bandwidth test	1×10^{-9}
Uncertainty for DC power test	0.042 %
Uncertainty for test site temperature and humidity	0.6°C
	3%

3. POWER LINE CONDUCTED EMISSION TEST

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

4. RADIATED EMISSION TEST

4.1. Test Equipment

Frequency rang: 30~1000MHz

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	3#Chamber	AUDIX	N/A	N/A	Dec.05,08	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	Nov.10, 08	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	May.27, 08	1.5 Year
3.	Horn Antenna	EMCO	3116	00060088	May.27, 08	1.5Year
4	Amplifier	Agilent	8449B	3008A02495	Nov.24, 08	1 Year
5	RF Cable	Hubersuhner	SUCOFLEX102	28620/2	May.08, 09	1 Year
6	RF Cable	Hubersuhner	SUCOFLEX102	271471/4	May.08, 09	1 Year
7	RF Cable	Hubersuhner	SUCOFLEX102	29086/2	May.08, 09	1 Year

4.2. Block Diagram of Test Setup

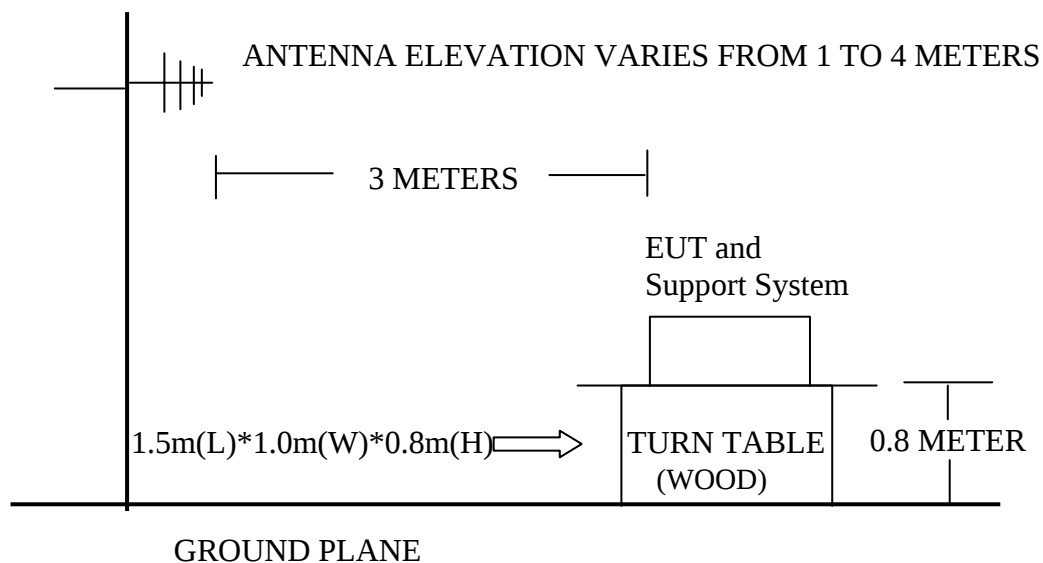
4.2.1. Block Diagram of connection between EUT and simulators



(EUT: Wireless Keyboard)

4.2.2. Anechoic Chamber Setup Diagram

ANTENNA TOWER



4.3. Radiated Emission Limit Standard: FCC 15.209 and 15.249

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		$\mu\text{V/m}$	$\text{dB}(\mu\text{V})/\text{m}$
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 960MHz	3	74.0 $\text{dB}(\mu\text{V})/\text{m}$ (Peak) 54.0 $\text{dB}(\mu\text{V})/\text{m}$ (Average)	
Field Strength of Fundamental emission for 2.4GHz-2.4835GHz	3	94.0 $\text{dB}(\mu\text{V})/\text{m}$ (Average) 114.0 $\text{dB}(\mu\text{V})/\text{m}$ (Peak)	
Field Strength of Harmonics	3	74.0 $\text{dB}(\mu\text{V})/\text{m}$ (Peak) 54.0 $\text{dB}(\mu\text{V})/\text{m}$ (Average)	

- Remark :
- (1) Emission level $\text{dB}\mu\text{V} = 20 \log$ Emission level $\mu\text{V/m}$
 - (2) The smaller limit shall apply at the cross point between two frequency bands.
 - (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.
 - (4) The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

4.4. EUT Configuration on Test

The following equipment are installed on Radiated Emission Test to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

4.4.1. Wireless Keyboard (EUT)

Model Number : JME-8279R
Serial Number : N/A

4.5. Operating Condition of EUT

4.5.1. Setup the EUT as shown in Section 4.2.

4.5.2. This EUT is battery powered, and a new battery was used for all the test.

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

4.6. Test Procedure

The EUT and its simulators are placed on a turn table, which is 0.8 meter high above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarization of the antenna is set on Test. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4-2003 on radiated emission Test.

The bandwidth of the EMI test receiver (R&S ESVS10) is set at 120kHz for frequency range from 30MHz to 1000 MHz.

The bandwidth of the Spectrum's VBW is set at 1MHz and RBW is set at 1MHz for peak emissions measurement above 1GHz and 1MHz RBW, 10Hz VBW for average emissions measure above 1GHz

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

4.7. Radiated Emission Test Results

PASS.

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

All the fundamental emissions were PK measured and comply with Average limit,so the average levels were deemed to comply with average limit.

Test Frequency: 30MHz-1000MHz

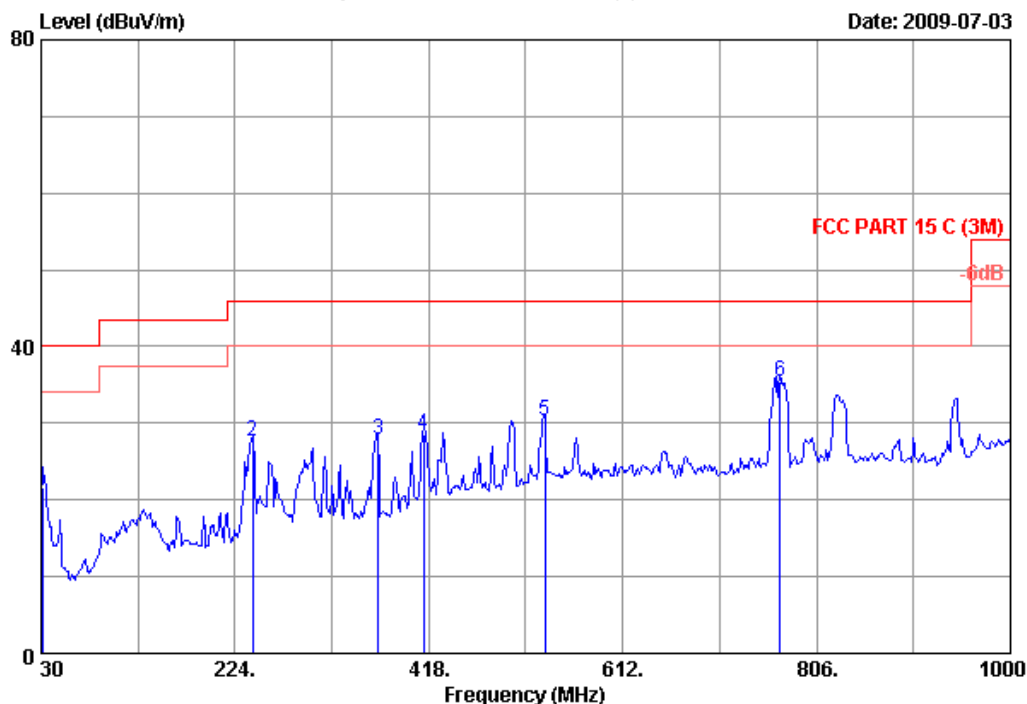


No.6,Ke Feng Road,Block 52,
Shenzhen Science&Industry Park
Nantou Shenzhen,Guangdong,China
Tel:+86-755-26639495
Fax:+86-755-26632877
Postcode:518057

Data: 2

File: D:\2009 Report Data\J\ACS9Q892.EM6 (2)

Date: 2009-07-03



Site no. : 3m Chamber Data no. : 2
Dis. / Ant. : 3m CBL6112D Ant. pol. : HORIZONTAL
Limit : FCC PART 15 C (3M)
Env. / Ins. : 24°C/56% Engineer : Sunny-lu
EUT : Wireless Keyboard M/N:JME-8279R
Power Rating : DC 3V
Test Mode : Tx Mode

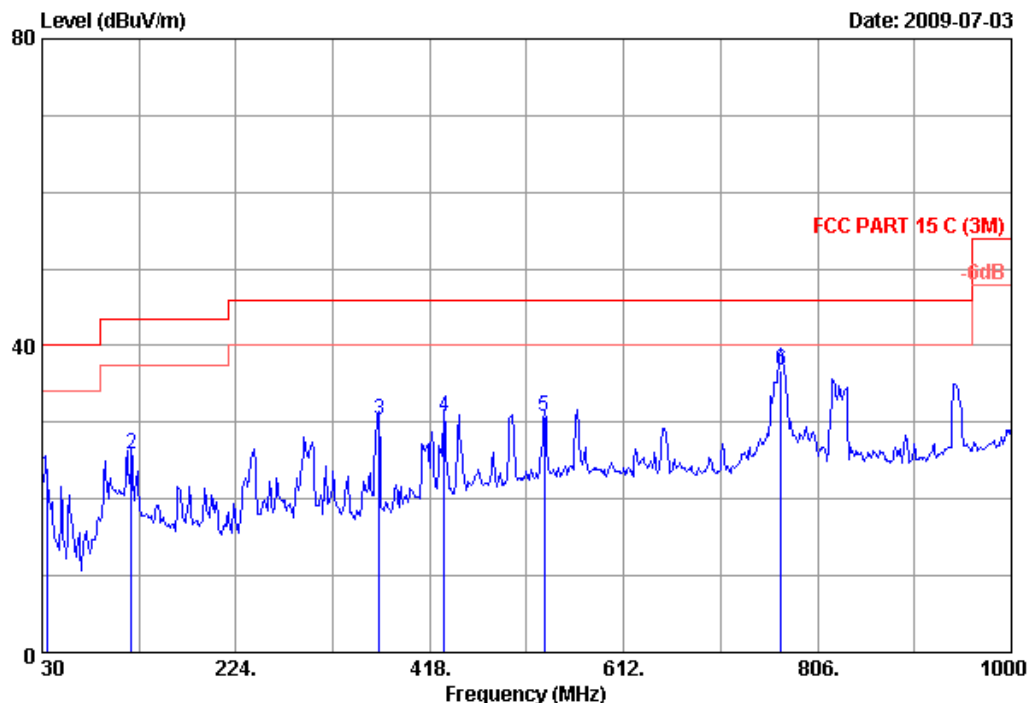
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	31.940	18.36	0.53	2.78	21.67	40.00	18.33	QP
2	241.460	11.31	1.58	14.67	27.56	46.00	18.44	QP
3	367.560	14.56	1.87	11.38	27.81	46.00	18.19	QP
4	413.150	16.53	1.97	10.00	28.50	46.00	17.50	QP
5	534.400	17.99	2.33	9.99	30.31	46.00	15.69	QP
6	769.140	19.53	2.97	12.84	35.34	46.00	10.66	QP

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



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

Data: 1 File: D:\2009 Report Data\J\ACS90892.EM6 (2)



Site no. : 3m Chamber	Data no. : 1
Dis. / Ant. : 3m CBL6112D	Ant. pol. : VERTICAL
Limit : FCC PART 15 C (3M)	
Env. / Ins. : 24°C/56%	Engineer : Sunny-lu
EUT : Wireless Keyboard	M/N: JME-8279R
Power Rating : DC 3V	
Test Mode : Tx Mode	

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission			Remark
					Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	
1	34.850	16.64	0.55	5.73	22.92	40.00	17.08	QP
2	119.240	13.10	0.98	11.69	25.77	43.50	17.73	QP
3	367.560	14.56	1.87	13.92	30.35	46.00	15.65	QP
4	432.550	16.78	2.03	11.83	30.64	46.00	15.36	QP
5	532.460	17.97	2.33	10.45	30.75	46.00	15.25	QP
6	769.140	19.53	2.97	14.22	36.72	46.00	9.28	QP

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

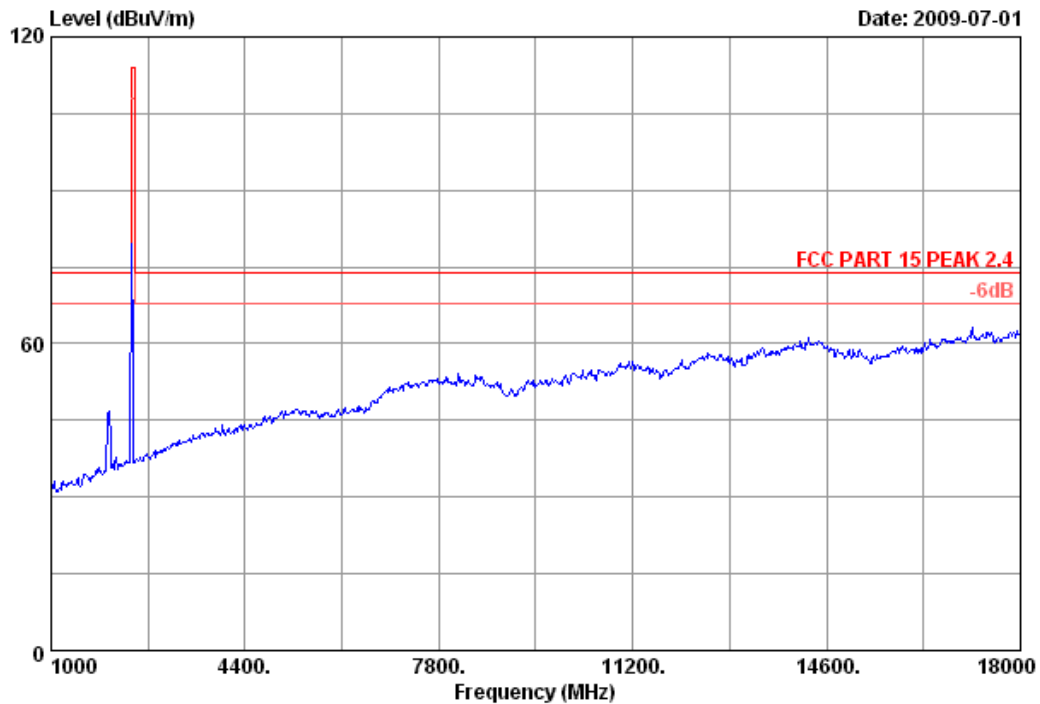
Test Frequency: 1GHz-18GHz



No.6 Ke Feng Road,Block 52,
ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
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Date: 2009-07-01

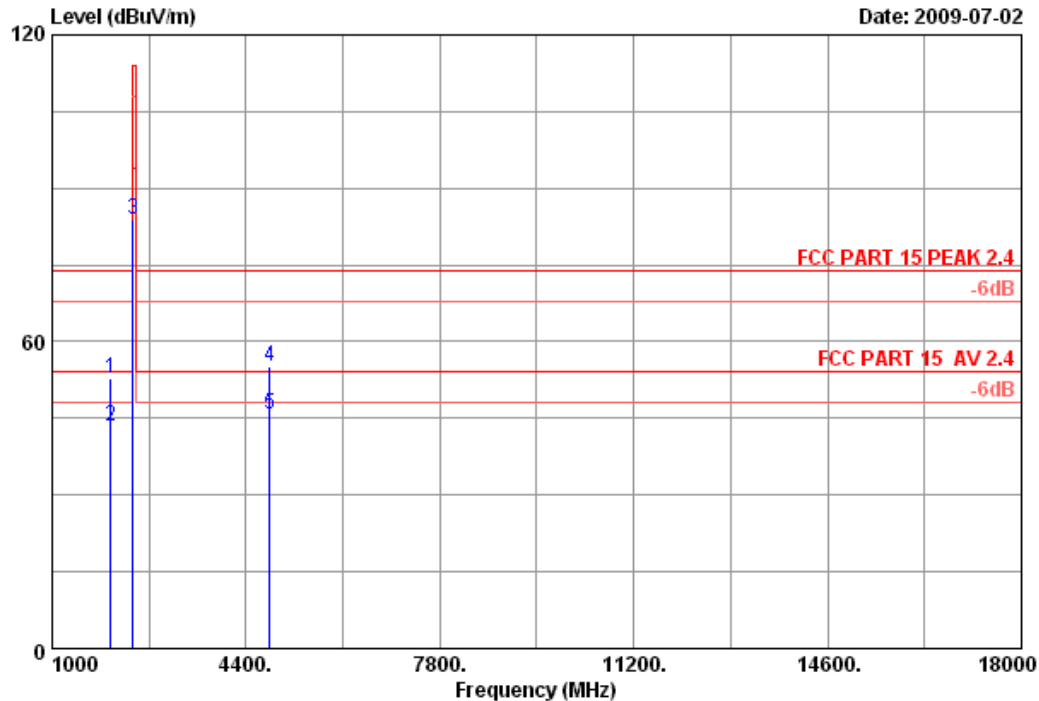


Site no.	: 3m Chamber	Data no.	: 1
Dis. / Ant.	: 3m 3115	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15 PEAK 2.4		
Env. / Ins.	: 23°C/54%	Engineer	: Sunny-lu
EUT	: Wireless Keyboard M/N: JME-8279R		
Power	: DC 3V		
Test mode	: Tx 2410MHz		



No.6 Ke Feng Road,Block 52,
ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
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Data: 2 File: E:\2009 report data\JACS9Q892.EM6 (20)



Site no. : 3m Chamber Data no. : 2
Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 PEAK 2.4
Env. / Ins. : 23°C/54% Engineer : Sunny-lu
EUT : Wireless Keyboard M/N:JME-8279R
Power : DC 3V
Test mode : Tx 2410MHz

		Ant.	Cable	Amp.		Emission			
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dbuv)	(dBuV/m)	(dBuV/m)	(dB)	
1	2024.000	27.92	6.23	35.19	53.77	52.73	74.00	21.27	Peak
2	2024.000	27.92	6.23	35.19	44.63	43.59	54.00	10.41	Average
3	2410.000	28.48	6.73	35.12	83.96	84.05	114.00	29.95	Peak
4	4820.000	34.47	10.54	34.59	44.78	55.20	74.00	18.80	Peak
5	4820.000	34.47	10.54	34.59	35.44	45.86	54.00	8.14	Average

Remarks:

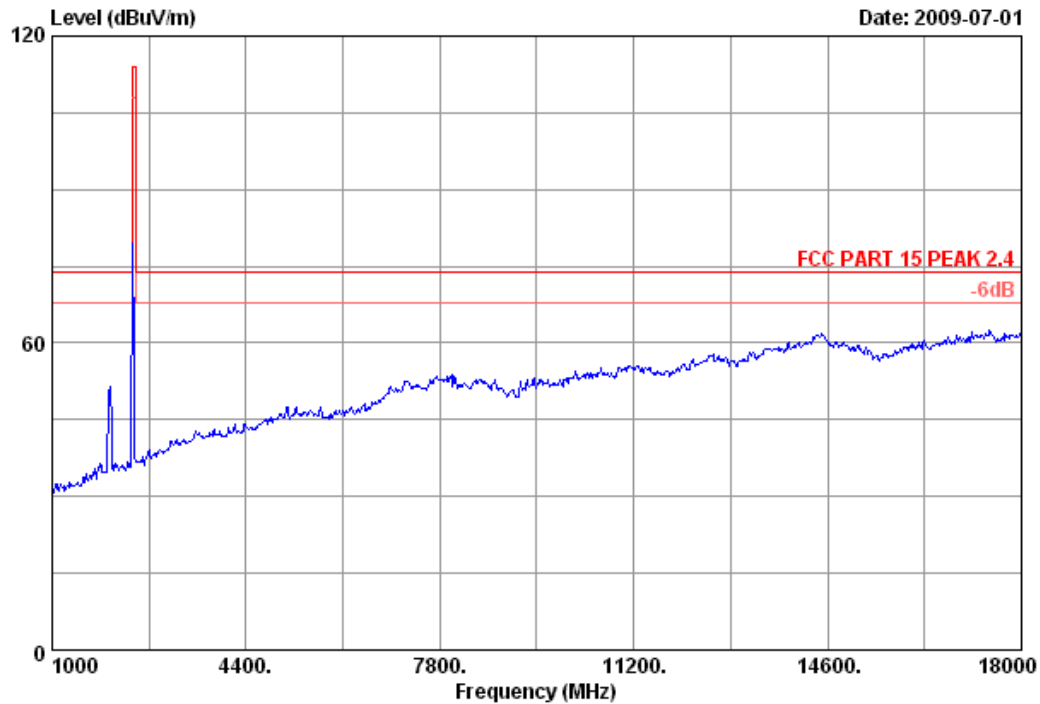
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



No.6 Ke Feng Road,Block 52,
ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
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Data: 3 File: E:\2009 report data\JACS9Q892.EM6 (20)

Date: 2009-07-01



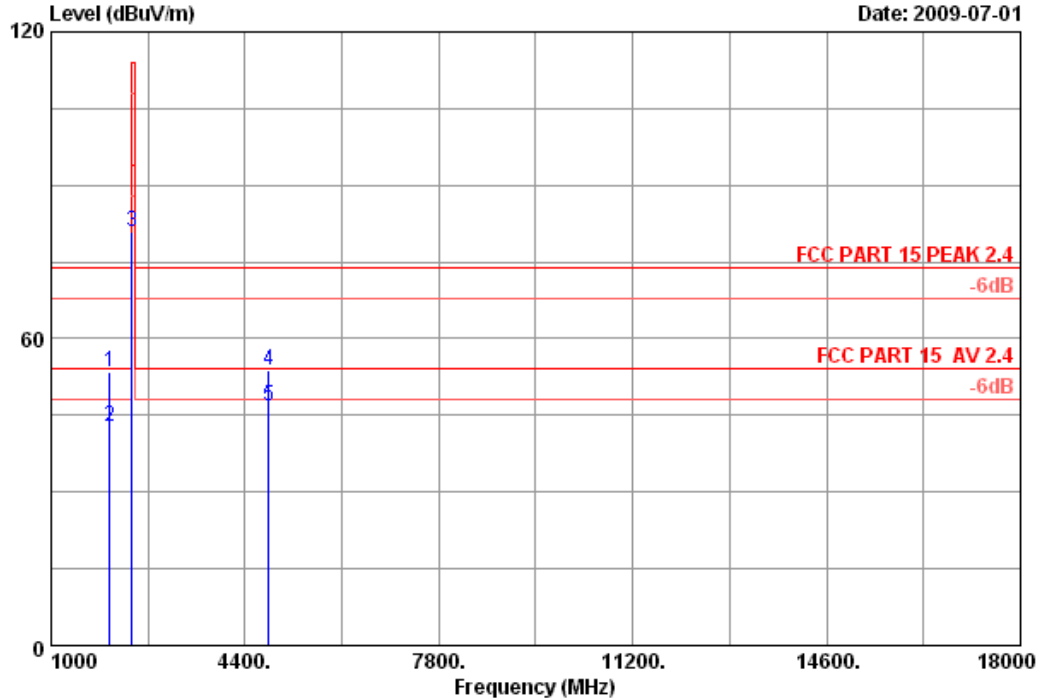
Site no.	: 3m Chamber	Data no.	: 3
Dis. / Ant.	: 3m 3115	Ant. pol.	: VERTICAL
Limit	: FCC PART 15 PEAK 2.4		
Env. / Ins.	: 23°C/54%	Engineer	: Sunny-lu
EUT	: Wireless Keyboard M/N:JME-8279R		
Power	: DC 3V		
Test mode	: Tx 2410MHz		



No.6 Ke Feng Road,Block 52,
ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
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Date: 2009-07-01



Site no. : 3m Chamber Data no. : 4
Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
Limit : FCC PART 15 PEAK 2.4
Env. / Ins. : 23°C/54% Engineer : Sunny-lu
EUT : Wireless Keyboard M/N:JME-8279R
Power : DC 3V
Test mode : Tx 2410MHz

		Ant.	Cable	Amp.		Emission			
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dbuv)	(dBuV/m)	(dBuV/m)	(dB)	
1	2024.000	27.92	6.23	35.19	54.39	53.35	74.00	20.65	Peak
2	2024.000	27.92	6.23	35.19	43.68	42.64	54.00	11.36	Average
3	2410.000	28.48	6.73	35.12	80.70	80.79	114.00	33.21	Peak
4	4820.000	34.47	10.54	34.59	43.50	53.92	74.00	20.08	Peak
5	4820.000	34.47	10.54	34.59	36.29	46.71	54.00	7.29	Average

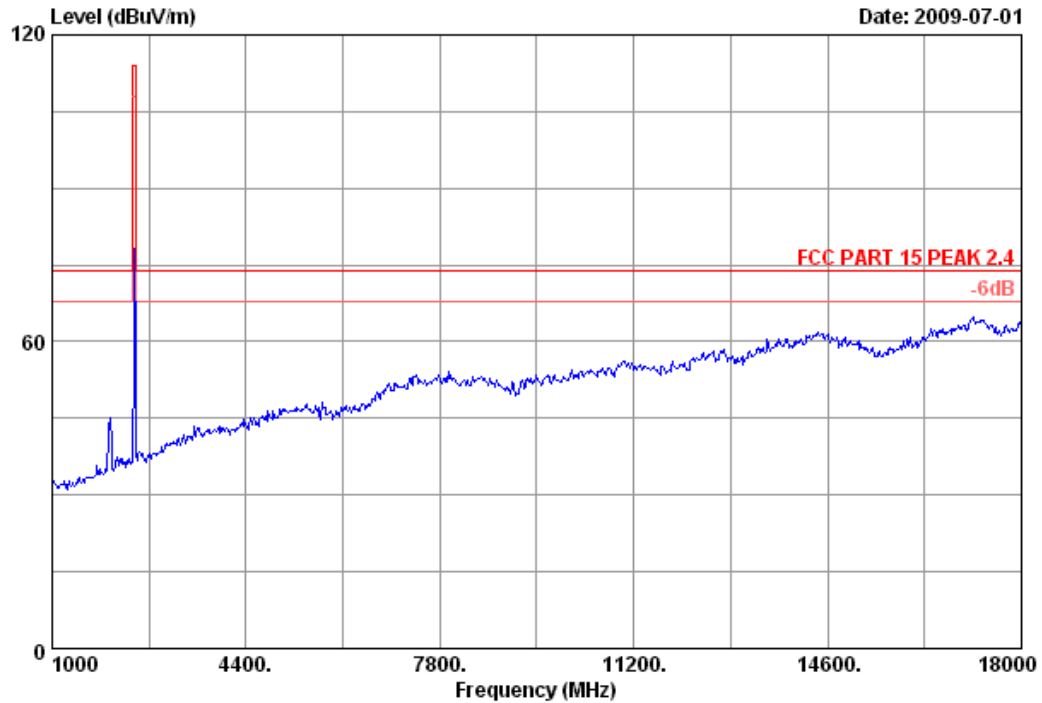
Remarks:

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



No.6 Ke Feng Road,Block 52,
ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
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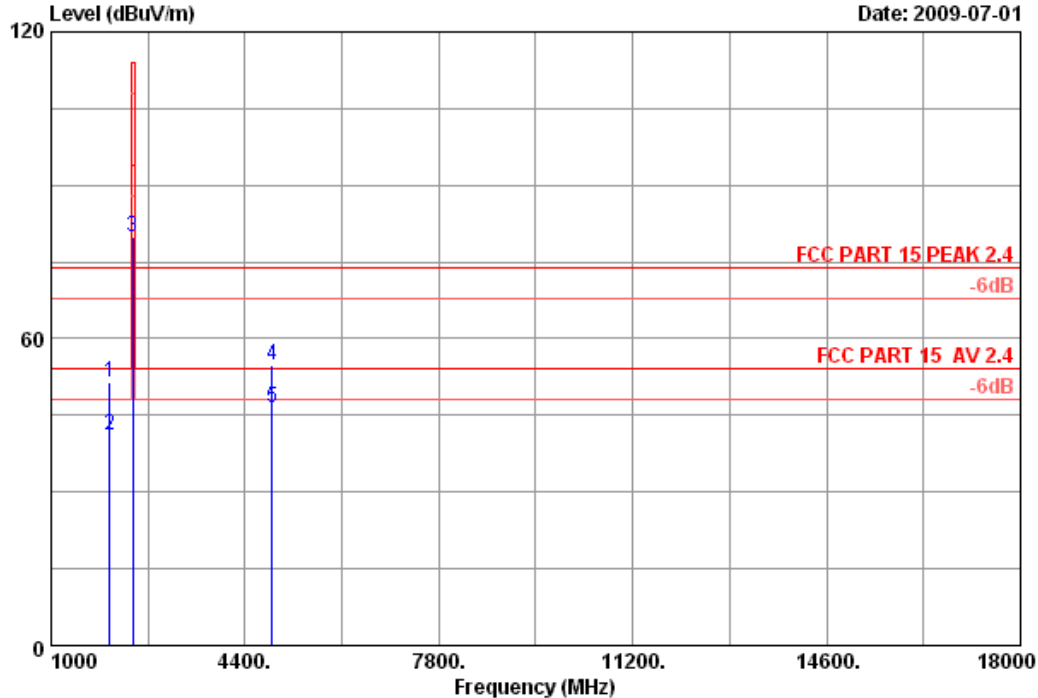
Site no.	: 3m Chamber	Data no.	: 5
Dis. / Ant.	: 3m 3115	Ant. pol.	: VERTICAL
Limit	: FCC PART 15 PEAK 2.4		
Env. / Ins.	: 23°C/54%	Engineer	: Sunny-lu
EUT	: Wireless Keyboard M/N:JME-8279R		
Power	: DC 3V		
Test mode	: Tx 2437MHz		



No.6 Ke Feng Road,Block 52,
ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
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Date: 2009-07-01



Site no. : 3m Chamber Data no. : 6
Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
Limit : FCC PART 15 PEAK 2.4
Env. / Ins. : 23°C/54% Engineer : Sunny-lu
EUT : Wireless Keyboard M/N:JME-8279R
Power : DC 3V
Test mode : Tx 2437MHz

		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	2024.000	27.92	6.23	35.19	52.39	51.35	74.00	22.65	Peak
2	2024.000	27.92	6.23	35.19	42.05	41.01	54.00	12.99	Average
3	2437.000	28.53	6.80	35.11	79.81	80.03	114.00	33.97	Peak
4	4874.000	34.78	10.56	34.58	44.22	54.98	74.00	19.02	Peak
5	4874.000	34.78	10.56	34.58	35.87	46.63	54.00	7.37	Average

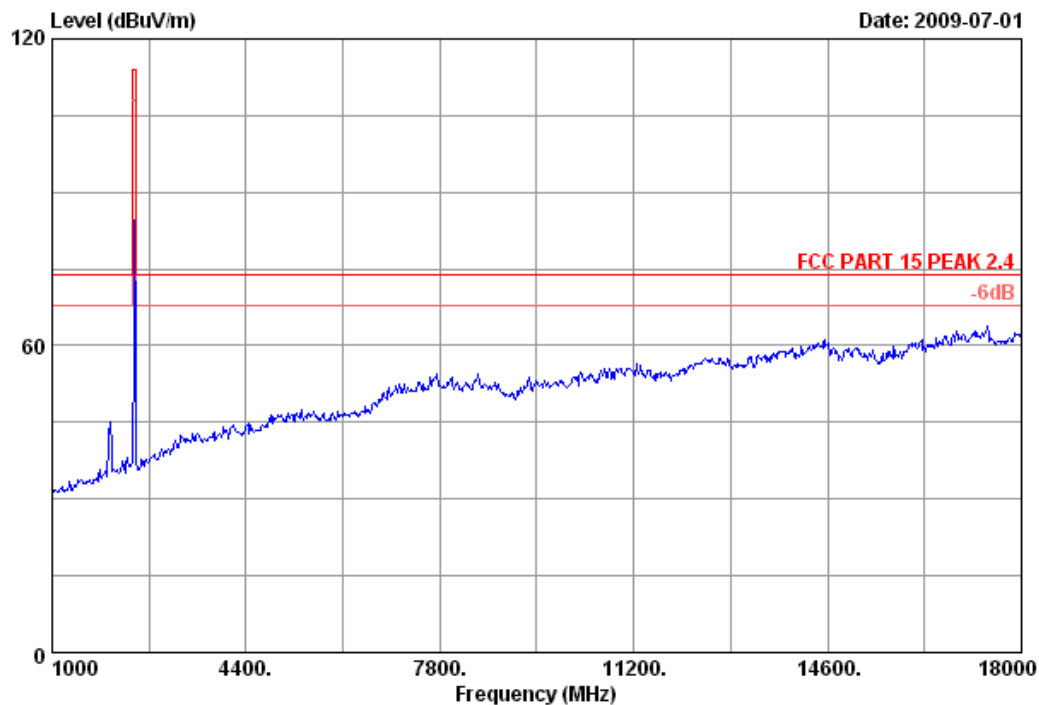
Remarks:

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



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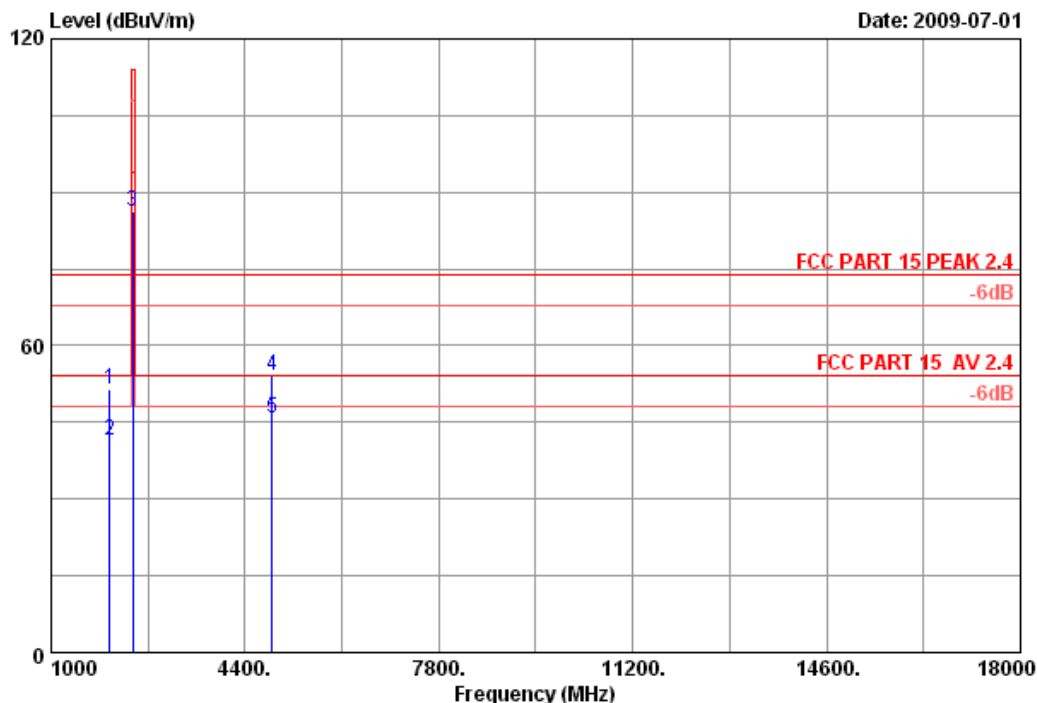


Site no.	: 3m Chamber	Data no.	: 7
Dis. / Ant.	: 3m 3115	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15 PEAK 2.4		
Env. / Ins.	: 23°C/54%	Engineer	: Sunny-lu
EUT	: Wireless Keyboard	M/N:	JME-8279R
Power	: DC 3V		
Test mode	: Tx 2437MHz		



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

Data: 8 File: E:\2009 report data\JACS9Q892.EM6 (20)



Site no. : 3m Chamber Data no. : 8
Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 PEAK 2.4
Env. / Ins. : 23°C/54% Engineer : Sunny-lu
EUT : Wireless Keyboard M/N:JME-8279R
Power : DC 3V
Test mode : Tx 2437MHz

		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	2024.000	27.92	6.23	35.19	52.62	51.58	74.00	22.42	Peak
2	2024.000	27.92	6.23	35.19	42.51	41.47	54.00	12.53	Average
3	2437.000	28.53	6.80	35.11	86.09	86.31	114.00	27.69	Peak
4	4874.000	34.78	10.56	34.58	43.25	54.01	74.00	19.99	Peak
5	4874.000	34.78	10.56	34.58	34.95	45.71	54.00	8.29	Average

Remarks:

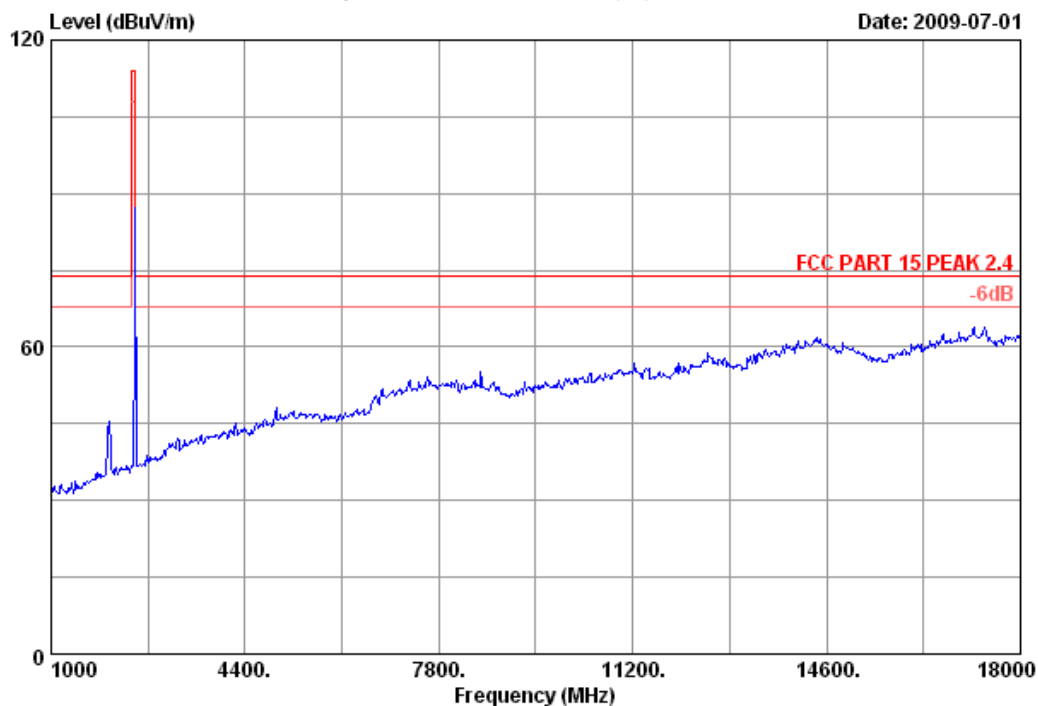
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



No.6 Ke Feng Road,Block 52,
ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
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Data: 9 File: E:\2009 report data\J\ACS9Q892.EM6 (20)

Date: 2009-07-01



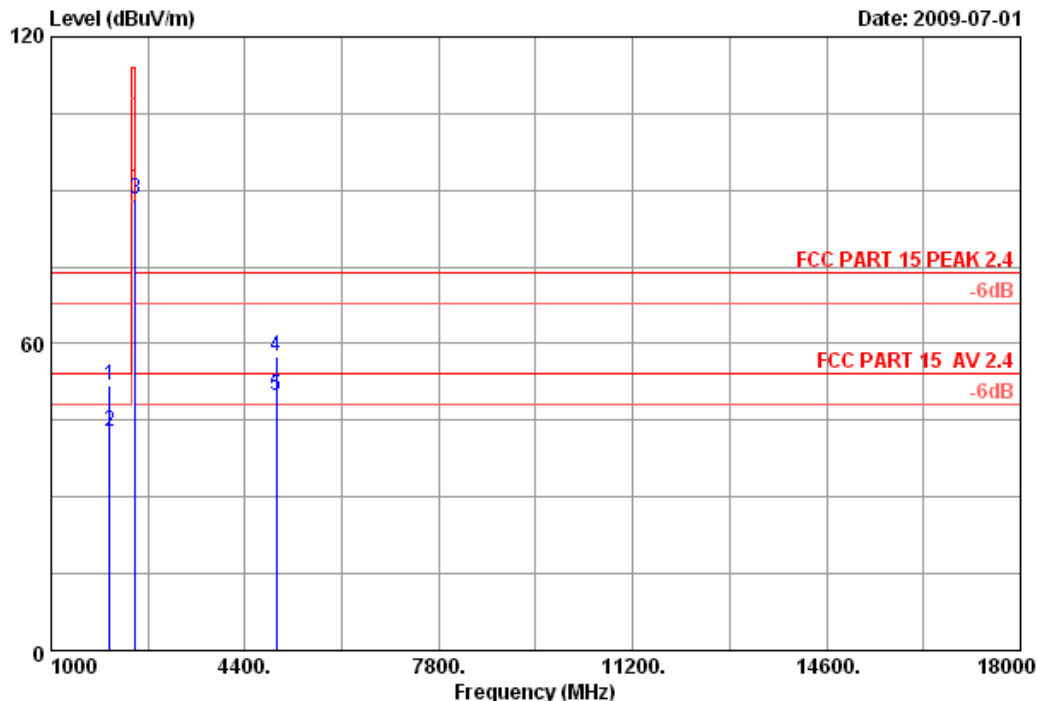
Site no.	: 3m Chamber	Data no.	: 9
Dis. / Ant.	: 3m 3115	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15 PEAK 2.4		
Env. / Ins.	: 23°C/54%	Engineer	: Sunny-lu
EUT	: Wireless Keyboard	M/N:	JME-8279R
Power	: DC 3V		
Test mode	: Tx 2473MHz		



No.6 Ke Feng Road,Block 52,
ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
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Data: 10 File: E:\2009 report data\JACS9Q892.EM6 (20)

Date: 2009-07-01



Site no. : 3m Chamber Data no. : 10
Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 PEAK 2.4
Env. / Ins. : 23°C/54% Engineer : Sunny-lu
EUT : Wireless Keyboard M/N:JME-8279R
Power : DC 3V
Test mode : Tx 2473MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dbuv)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2024.000	27.92	6.23	35.19	53.01	51.97	74.00	22.03	Peak
2	2024.000	27.92	6.23	35.19	43.98	42.94	54.00	11.06	Average
3	2473.000	28.58	6.87	35.10	88.01	88.36	114.00	25.64	Peak
4	4946.000	35.19	10.58	34.56	46.27	57.48	74.00	16.52	Peak
5	4946.000	35.19	10.58	34.56	38.50	49.71	54.00	4.29	Average

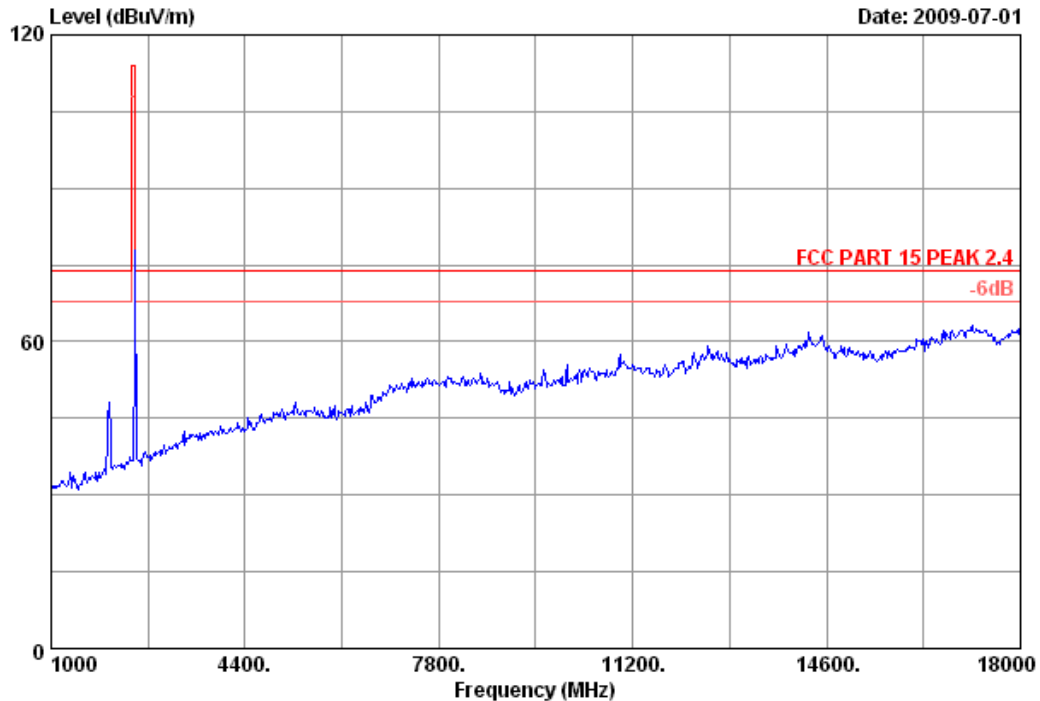
Remarks:

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



No.6 Ke Feng Road,Block 52,
ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
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Data: 11 File: E:\2009 report data\JACS9Q892.EM6 (20)

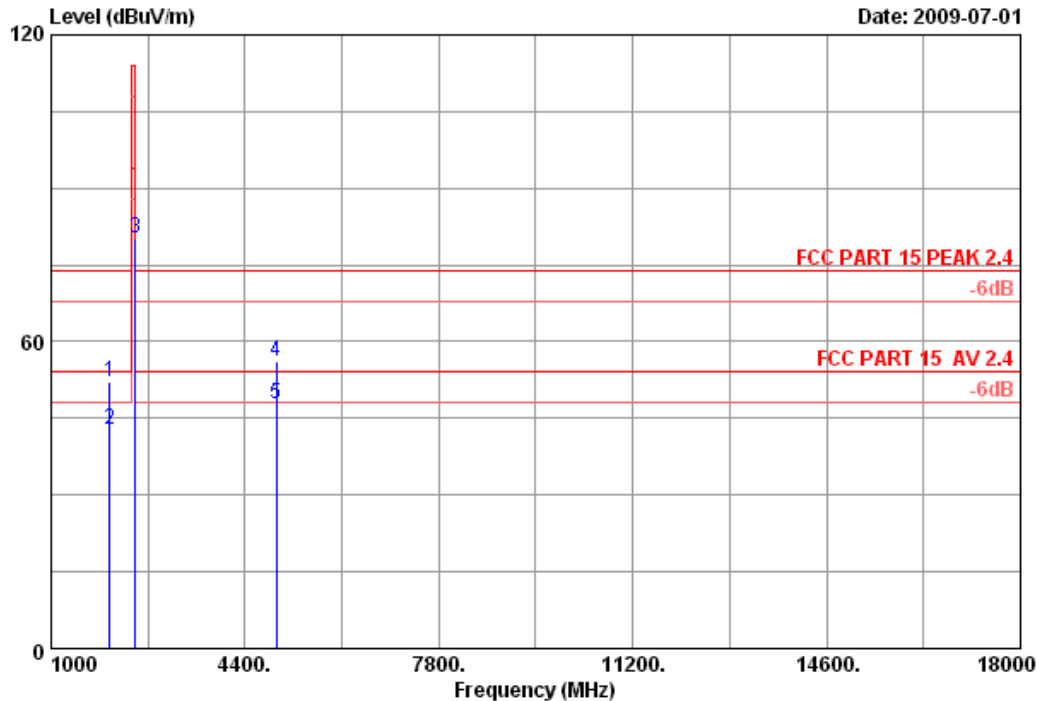


Site no.	: 3m Chamber	Data no.	: 11
Dis. / Ant.	: 3m 3115	Ant. pol.	: VERTICAL
Limit	: FCC PART 15 PEAK 2.4		
Env. / Ins.	: 23°C/54%	Engineer	: Sunny-lu
EUT	: Wireless Keyboard	M/N:	JME-8279R
Power	: DC 3V		
Test mode	: Tx 2473MHz		



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ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
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Site no. : 3m Chamber Data no. : 12
Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
Limit : FCC PART 15 PEAK 2.4
Env. / Ins. : 23°C/54% Engineer : Sunny-lu
EUT : Wireless Keyboard M/N:JME-8279R
Power : DC 3V
Test mode : Tx 2473MHz

		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	2024.000	27.92	6.23	35.19	53.02	51.98	74.00	22.02	Peak
2	2024.000	27.92	6.23	35.19	43.68	42.64	54.00	11.36	Average
3	2473.000	28.58	6.87	35.10	79.83	80.18	114.00	33.82	Peak
4	4946.000	35.19	10.58	34.56	45.03	56.24	74.00	17.76	Peak
5	4946.000	35.19	10.58	34.56	36.68	47.89	54.00	6.11	Average

Remarks:

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

5. BAND EDGE COMPLIANCE TEST

5.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Spectrum Analyzer	Agilent	E4446A	US44300459	May,08, 09	1 Year
2	Horn Antenna	EMCO	3115	9607-4877	May, 27, 08	1.5 Year
3	Amplifier	Agilent	8449B	3008A02495	Nov. 24.08	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

5.2. Limit

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

5.3. Test Produce

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

5.4. Test Results

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

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

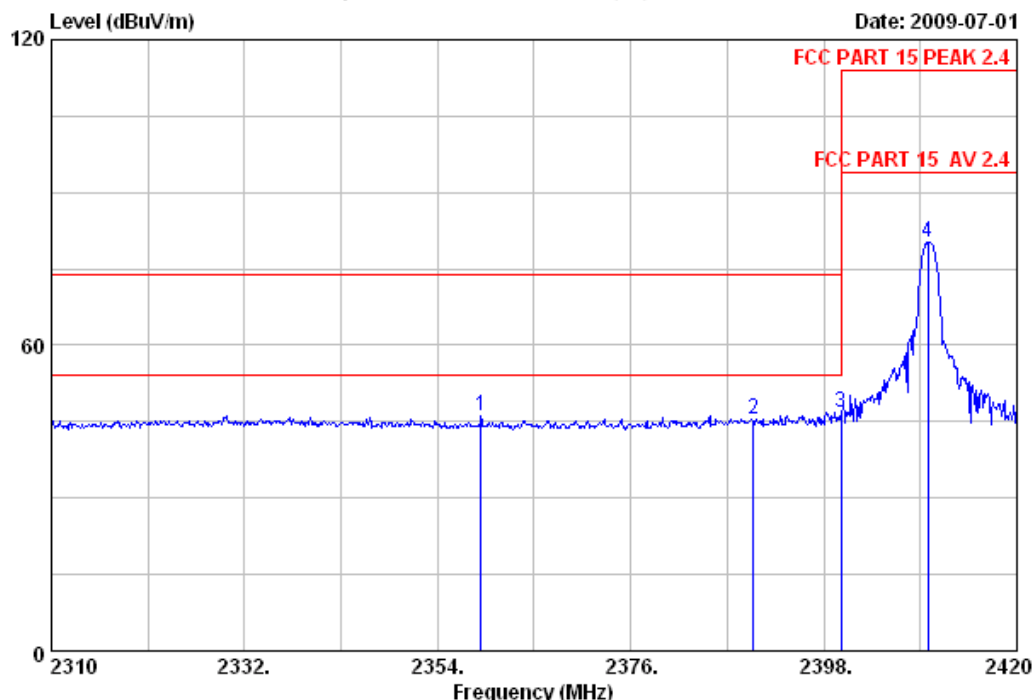
All the PK measured emissions comply with average limit, so the average levels were deemed to comply with average limit.



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

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Date: 2009-07-01



Site no. : 3m Chamber Data no. : 13
Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
Limit : FCC PART 15 PEAK 2.4
Env. / Ins. : 23°C/54% Engineer : Sunny-lu
EUT : Wireless Keyboard M/N:JME-8279R
Power : DC 3V
Test mode : Tx 2410MHz

	Freq.	Ant.	Cable	Amp.		Emission			
	(MHz)	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
		(dB/m)	(dB)	(dB)	(dbuv)	(dBuV/m)	(dBuV/m)	(dB)	
1	2358.950	28.41	6.69	35.13	46.28	46.25	74.00	27.75	Peak
2	2390.000	28.46	6.71	35.12	45.41	45.46	74.00	28.54	Peak
3	2400.000	28.46	6.73	35.12	46.56	46.63	74.00	27.37	Peak
4	2409.880	28.48	6.73	35.12	80.07	80.16	114.00	33.84	Peak

Remarks:

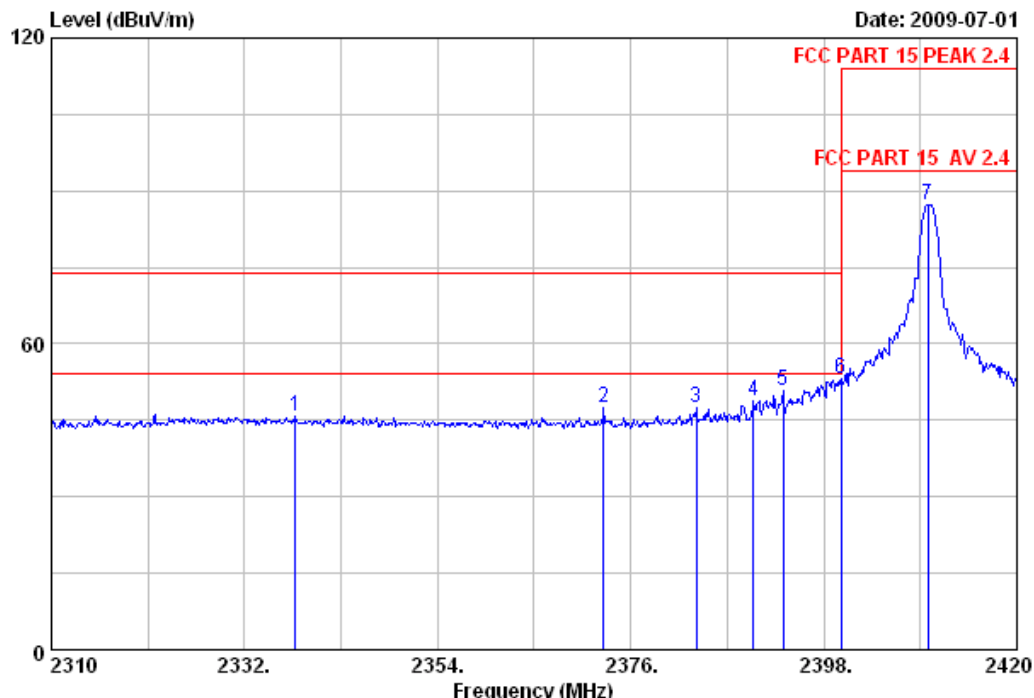
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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ShenZhen Science & Industry Park
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Tel:+86-755-26639495-7
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Data: 14 File: E:\2009 report data\J\ACS9Q892.EM6 (20)

Date: 2009-07-01



Site no. : 3m Chamber Data no. : 14
Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 PEAK 2.4
Env. / Ins. : 23°C/54% Engineer : Sunny-lu
EUT : Wireless Keyboard M/N:JME-8279R
Power : DC 3V
Test mode : Tx 2410MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dbuv)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2337.830	28.38	6.67	35.13	45.91	45.83	74.00	28.17	Peak
2	2372.920	28.43	6.69	35.12	47.38	47.38	74.00	26.62	Peak
3	2383.480	28.43	6.71	35.12	47.51	47.53	74.00	26.47	Peak
4	2390.000	28.46	6.71	35.12	48.67	48.72	74.00	25.28	Peak
5	2393.380	28.46	6.73	35.12	50.88	50.95	74.00	23.05	Peak
6	2400.000	28.46	6.73	35.12	52.93	53.00	74.00	21.00	Peak
7	2409.880	28.48	6.73	35.12	87.17	87.26	114.00	26.74	Peak

Remarks:

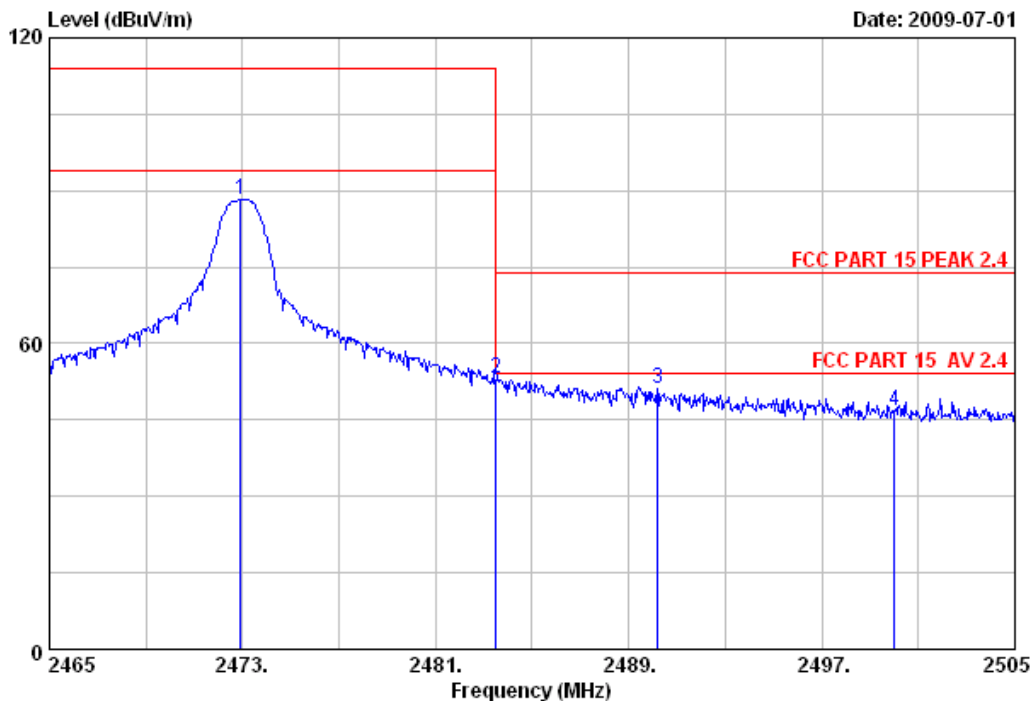
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



No.6 Ke Feng Road,Block 52,
ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
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Data: 15 File: E:\2009 report data\J\ACS9Q892.EM6 (20)

Date: 2009-07-01



Site no.	: 3m Chamber	Data no.	: 15
Dis. / Ant.	: 3m 3115	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15 PEAK 2.4		
Env. / Ins.	: 23°C/54%	Engineer	: Sunny-lu
EUT	: Wireless Keyboard M/N:JME-8279R		
Power	: DC 3V		
Test mode	: Tx 2473MHz		

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dbuv)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2472.920	28.58	6.87	35.10	88.02	88.37	114.00	25.63	Peak
2	2483.500	28.58	6.87	35.10	52.64	52.99	74.00	21.01	Peak
3	2490.200	28.60	6.91	35.10	50.86	51.27	74.00	22.73	Peak
4	2500.000	28.60	6.91	35.10	46.45	46.86	74.00	27.14	Peak

Remarks:

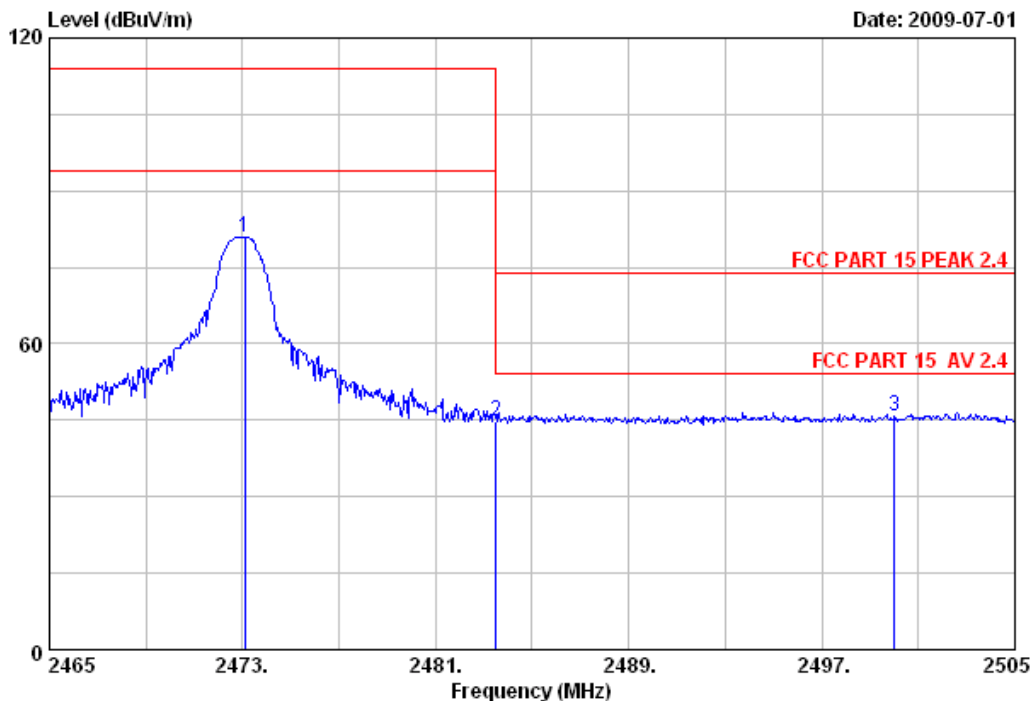
1. Emission Level= Antenna Factor + Cable Loss -amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



No.6 Ke Feng Road,Block 52,
ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
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Data: 16 File: E:\2009 report data\J\ACS90892.EM6 (20)

Date: 2009-07-01



Site no. : 3m Chamber Data no. : 16
Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
Limit : FCC PART 15 PEAK 2.4
Env. / Ins. : 23°C/54% Engineer : Sunny-lu
EUT : Wireless Keyboard M/N:JME-8279R
Power : DC 3V
Test mode : Tx 2473MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dbuv)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2473.080	28.58	6.87	35.10	80.57	80.92	114.00	33.08	Peak
2	2483.500	28.58	6.87	35.10	44.45	44.80	74.00	29.20	Peak
3	2500.000	28.60	6.91	35.10	45.42	45.83	74.00	28.17	Peak

Remarks:

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

6. 20DB BANDWIDTH TEST

6.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Spectrum Analyzer	Agilent	E4446A	US44300459	May,08, 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

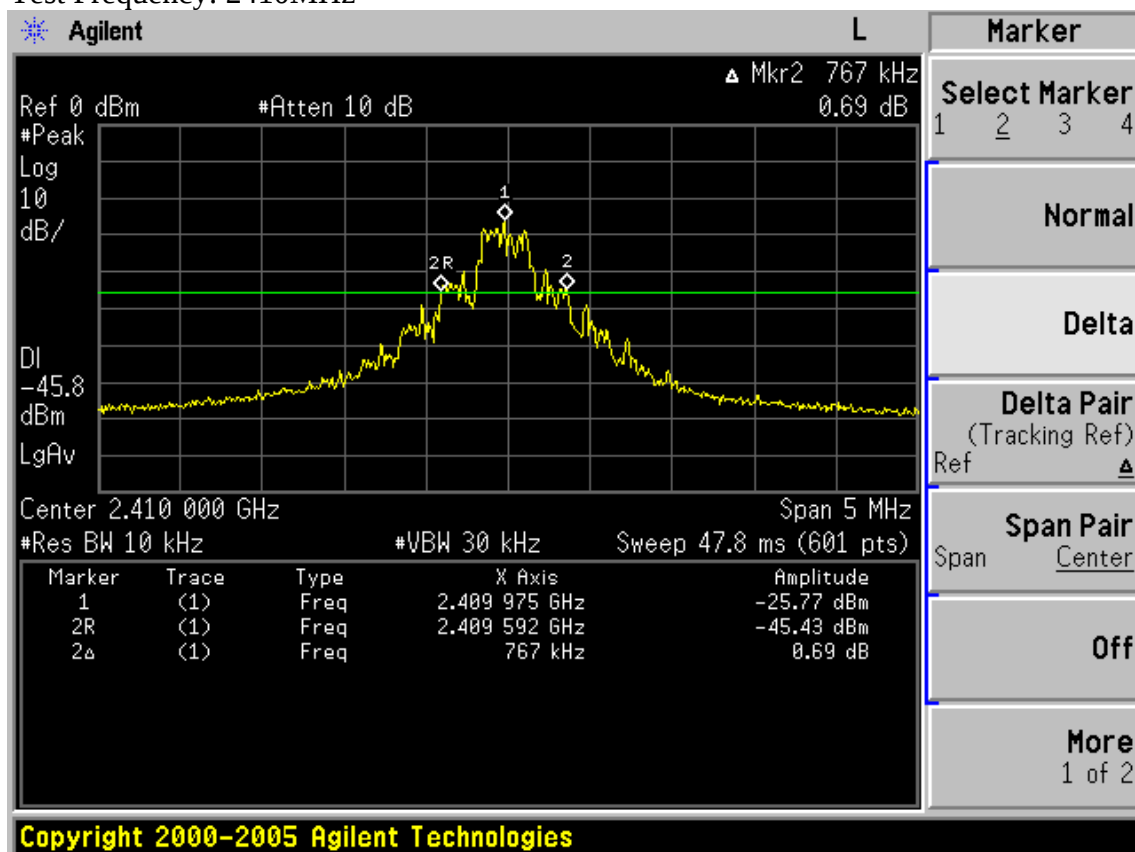
6.2. Limit

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

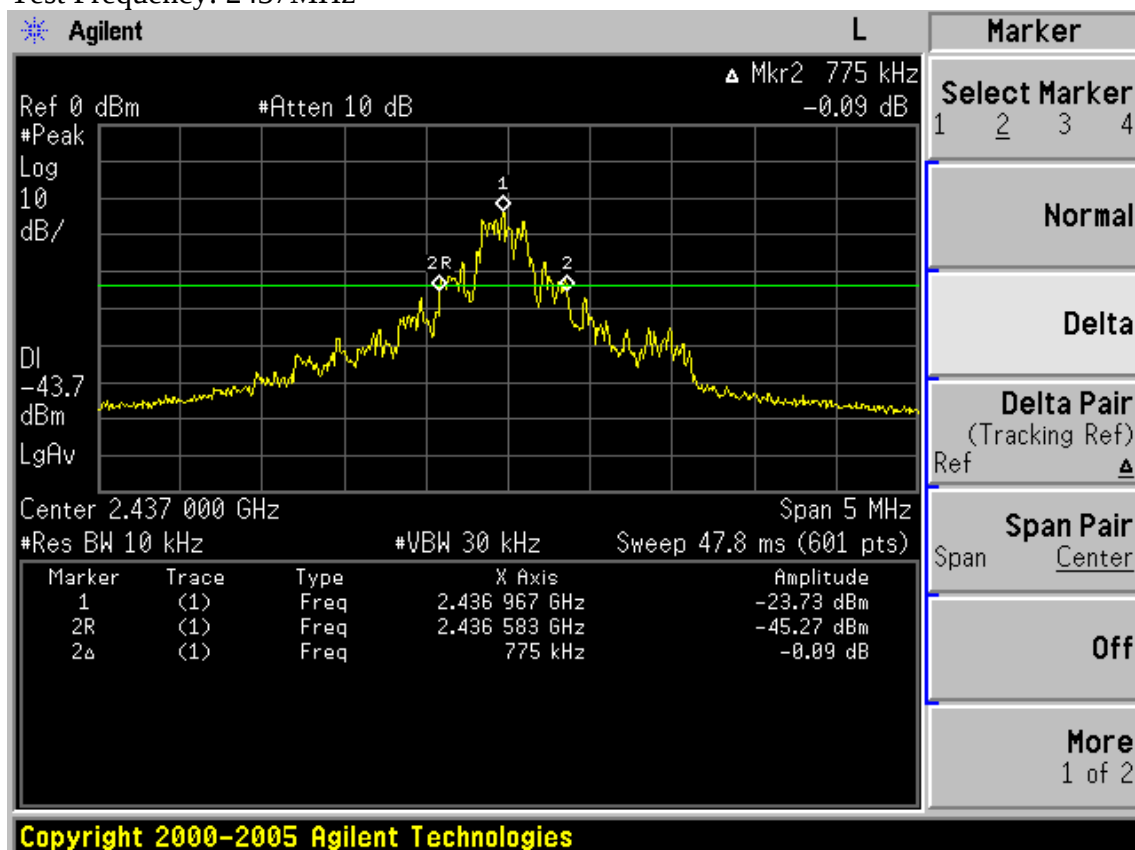
6.3. Test Results

CH	20dB Bandwidth (kHz)	Limit (MHz)	Conclusion
(Low)	767	---	PASS
(Mid)	775	---	PASS
(High)	775	---	PASS

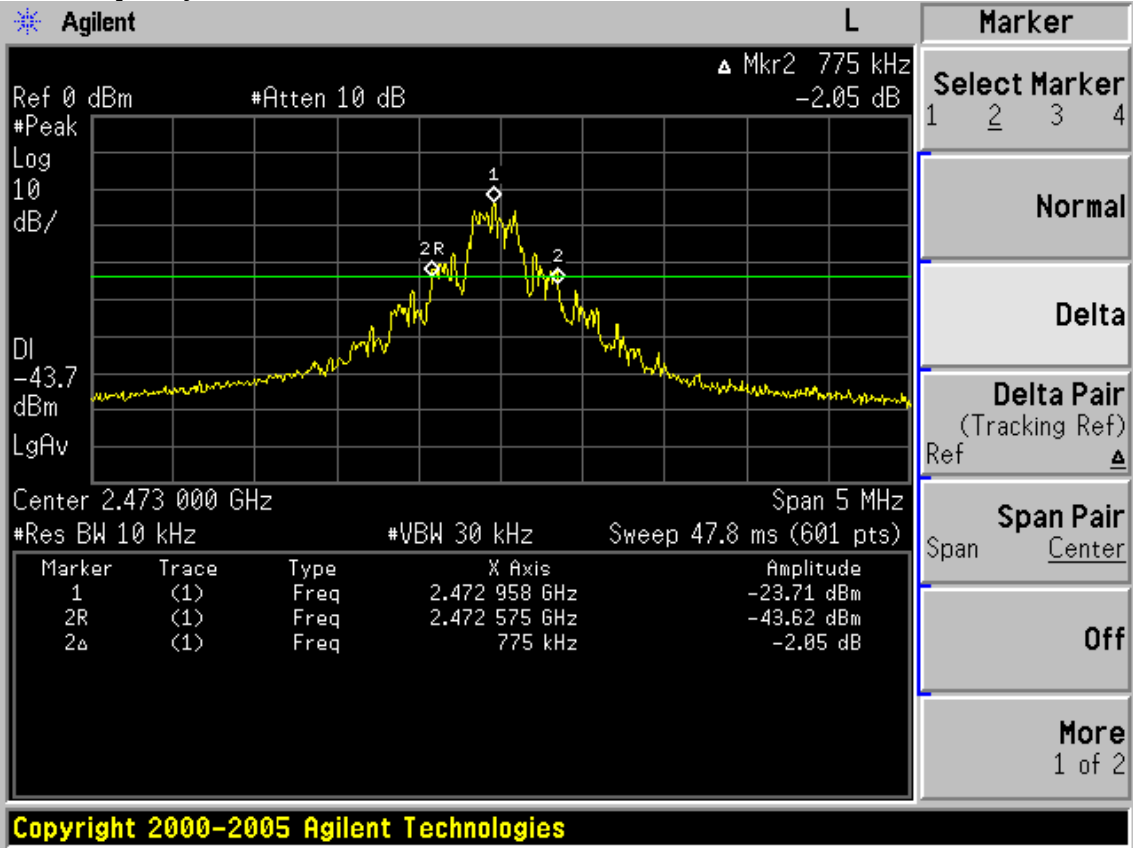
Test Frequency: 2410MHz



Test Frequency: 2437MHz



Test Frequency: 2473MHz



7. DEVIATION TO TEST SPECIFICATIONS

[NONE]