FCC CERTIFICATION
On Behalf of
ATake Digital Technology Shenzhen Co., Ltd.

Wireless Keyboard
Model No.: DKB5101

FCC ID: WWLDKB5101

Prepared for	:	ATake Digital Technology Shenzhen Co., Ltd.
Address	:	13th Building, The 4th Industry Park, Han Shui Ko, Kong Ming Town, Shenzhen City, China
Prepared by	:	ACCURATE TECHNOLOGY CO. LTD
Address	:	F1, Bldg. A, Changyuan New Material Port, Keyuan Rd. Science & Industry Park, Nanshan, Shenzhen, Guangdong P.R. China
		Tel: (0755) 26503290
		Fax: (0755) 26503396

Report Number	:	ATE20112760
Date of Test	:	December 21-28, 2011
Date of Report	:	December 28, 2011

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Description Page

Test Report Certification

Applicant	:	ATake Digital Technology Shenzhen Co., Ltd.
Manufacturer	:	ATake Digital Technology Shenzhen Co., Ltd.
EUT Description	:	Wireless Keyboard
		(A) MODEL NO.: DKB5101
		(B) SERIAL NO.: N/A
		(C) POWER SUPPLY: DC 1.5V ("AA" batteries 1×)

Measurement Procedure Used:

FCC Rules and Regulations Part 15 Subpart C Section 15.249: 2008
ANSI C63.4: 2003

The device described above is tested by ACCURATE TECHNOLOGY 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 Section15.249 limits. The measurement results are contained in this test report and ACCURATE TECHNOLOGY CO. LTD is assumed full responsibility for the accuracy and completeness of these measurements. 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 ACCURATE TECHNOLOGY CO. LTD.

Date of Test : December 21-28, 2011

Prepared by :

(Engineer)

Approved & Authorized Signer :

(Manager)

1. GENERAL INFORMATION

1.1.Description of Device (EUT)

EUT	:	Wireless Keyboard
Model Number	:	DKB5101
Power Supply	:	DC 1.5V ("AA" batteries 1×)
Operate Frequency	:	2402.000-2478.000MHz
Applicant	:	ATake Digital Technology Shenzhen Co., Ltd.
Address	:	13th Building, The 4th Industry Park, Han Shui Ko, Kong Ming Town, Shenzhen City, China
Manufacturer	:	ATake Digital Technology Shenzhen Co., Ltd.
Address	:	13th Building, The 4th Industry Park, Han Shui Ko, Kong Ming Town, Shenzhen City, China
Date of sample received	:	December 21, 2011
Date of Test	:	December 21-28, 2011

1.2.Description of Test Facility

EMC Lab	:	Accredited by TUV Rheinland Shenzhen Listed by FCC The Registration Number is 752051 Listed by Industry Canada The Registration Number is 5077A-2 Accredited by China National Accreditation Committee for Laboratories The Certificate Registration Number is L3193
Name of Firm	:	ACCURATE TECHNOLOGY CO. LTD
Site Location	:	F1, Bldg. A, Changyuan New Material Port, Keyuan Rd. Science & Industry Park, Nanshan, Shenzhen, Guangdong P.R. China

1.3.Measurement Uncertainty

Conducted Emission Expanded Uncertainty	=	2.23dB, k=2
Radiated emission expanded uncertainty (9kHz-30MHz)	=	3.08dB, k=2
Radiated emission expanded uncertainty (30MHz-1000MHz)	=	4.42dB, k=2
Radiated emission expanded uncertainty (Above 1GHz)	=	4.06dB, k=2

2. MEASURING DEVICE AND TEST EQUIPMENT

Table 1: List of Test and Measurement Equipment

Kind of equipment	Manufacturer	Type	S/N	Calibrated until
EMI Test Receiver	Rohde&Schwarz	ESCS30	100307	Jan. 15, 2012
EMI Test Receiver	Rohde&Schwarz	ESPI3	101526/003	Jan. 15, 2012
Spectrum Analyzer	Agilent	E7405A	MY45115511	Jan. 15, 2012
Pre-Amplifier	Rohde&Schwarz	CBLU1183540-01	3791	Jan. 15, 2012
Loop Antenna	Schwarzbeck	FMZB1516	1516131	Jan. 15, 2012
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	Jan. 15, 2012
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	Jan. 15, 2012
Horn Antenna	Schwarzbeck	BBHA9170	9170-359	Jan. 15, 2012
LISN	Rohde&Schwarz	ESH3-Z5	100305	Jan. 15, 2012
LISN	Schwarzbeck	NSLK8126	8126431	Jan. 15, 2012

3. SUMMARY OF TEST RESULTS

FCC Rules	**Description of Test**	**Result**
Section 15.207	Conducted Emission	N/A
Section 15.249(a)	Fundamental and Harmonics Radiated Emission	Compliant
Section 15.249(d)	Spurious Radiated Emission	Compliant
Section 15.249(d)	Band Edge	Compliant
Section 15.203	Antenna Requirement	Compliant

Remark: “N/A” means “Not applicable”.

4. FUNDAMENTAL AND HARMONICS RADIATED EMISSION FOR SECTION 15.249(A)

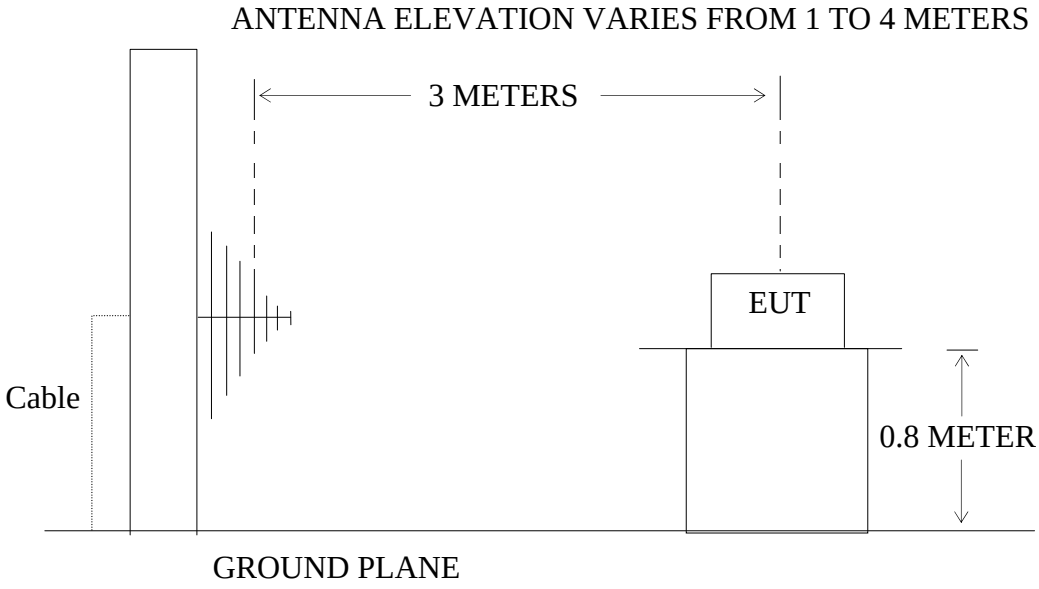
4.1.Block Diagram of Test Setup

4.1.1.Block diagram of connection between the EUT and simulators

EUT

(EUT: Wireless Keyboard)

4.1.2.Semi-Anechoic Chamber Test Setup Diagram



(EUT: Wireless Keyboard)

4.2.The Emission Limit

4.2.1.For intentional radiators, According to section 15.249(a), Operation within the frequency band of 2.4 to 2.4835GHz, The fundamental field strength shall not exceed 94 dBμV/m and the harmonics shall not exceed 54 dBμV/m.

Fundamental Frequency	Field Strength of Fundamental (millivolts/meter)	Field Strength of harmonics (microvolts/meter)
902-928MHz	50	500
2400-2483.5MHz	50	500
5725-5875MHz	50	500
24.0-24.25GHz	250	2500

4.2.2.According to section 15.249(e), as shown in section 15.35(b), the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

4.3.Configuration of EUT on Measurement

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

4.3.1. Wireless Keyboard (EUT)

Model Number **:** DKB5101
Serial Number **:** N/A
Manufacturer **:** ATake Digital Technology Shenzhen Co., Ltd.

4.4.Operating Condition of EUT

4.4.1.Setup the EUT and simulator as shown as Section 4.1.

4.4.2.Turn on the power of all equipment.

4.4.3. Let the EUT work in TX modes measure it. The transmit frequency are 2402.000 - 2478.000 MHz MHz. We are select 2402.000MHz, 2442.000MHz, 2478.000MHz TX frequency to transmit.

4.5. Test Procedure

The EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bi-log antenna) is used as receiving antenna. Both horizontal and vertical polarizations of the antenna are set on measurement. 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 measurement. The EUT was tested in 3 orthogonal planes.

The bandwidth of test receiver is set at 120kHz in 30-1000MHz. and set at 1MHz in above 1000MHz.

The frequency range from 30MHz to 25000MHz is checked.

4.6. The Field Strength of Radiation Emission Measurement Results

PASS.

Date of Test:	December 24, 2011	Temperature:	25°C
EUT:	Wireless Keyboard	Humidity:	50%
Model No.:	DKB5101	Power Supply:	DC 1.5V
Test Mode:	TX 2402.000MHz	Test Engineer:	Pei

Fundamental Radiated Emissions

Frequency (MHz)	Reading(dBμV/m)		Factor(dB) Corr.	Result(dBμV/m)		Limit(dBμV/m)		Margin(dB)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
2402.000	96.17	110.82	-7.45	88.72	103.37	94	114	-5.28	-10.63	Vertical
2402.000	95.21	110.90	-7.45	87.76	103.45	94	114	-6.24	-10.55	Horizontal

Harmonics Radiated Emissions

Frequency (MHz)	Reading(dBμV/m)		Factor(dB) Corr.	Result(dBμV/m)		Limit(dBμV/m)		Margin(dB)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
7206.000	43.57	47.52	2.97	46.54	50.49	54	74	-7.46	-23.51	Vertical
4804.000	39.48	43.70	-0.30	39.18	43.40	54	74	-14.82	-30.60	Horizontal

Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

   Result = Reading + Corrected Factor

   Where Corrected Factor = Antenna Factor + Cable Loss + High Pass Filter Loss – Amplifier Gain
3. The spectral diagrams in appendix I display the measurement of peak values.

Date of Test:	December 24, 2011	Temperature:	25°C
EUT:	Wireless Keyboard	Humidity:	50%
Model No.:	DKB5101	Power Supply:	DC 1.5V
Test Mode:	TX 2442.000MHz	Test Engineer:	Pei

Fundamental Radiated Emissions

Frequency (MHz)	Reading(dBμV/m)		Factor(dB) Corr.	Result(dBμV/m)		Limit(dBμV/m)		Margin(dB)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
2442.000	94.63	110.80	-7.35	87.28	103.45	94	114	-6.72	-10.55	Vertical
2442.000	94.12	111.02	-7.35	89.77	103.67	94	114	-4.23	-10.33	Horizontal

Harmonics Radiated Emissions

Frequency (MHz)	Reading(dBμV/m)		Factor(dB) Corr.	Result(dBμV/m)		Limit(dBμV/m)		Margin(dB)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
4884.000	45.21	49.32	0.15	45.36	49.47	54	74	-8.64	-24.53	Vertical
4884.000	39.37	43.49	0.15	39.52	43.64	54	74	-14.48	-30.36	Horizontal

Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

   Result = Reading + Corrected Factor

   Where Corrected Factor = Antenna Factor + Cable Loss + High Pass Filter Loss – Amplifier Gain
3. The spectral diagrams in appendix I display the measurement of peak values.

Date of Test:	December 24, 2011	Temperature:	25°C
EUT:	Wireless Keyboard	Humidity:	50%
Model No.:	DKB5101	Power Supply:	DC 1.5V
Test Mode:	TX 2478.000MHz	Test Engineer:	Pei

Fundamental Radiated Emissions

Frequency (MHz)	Reading(dBμV/m)		Factor(dB) Corr.	Result(dBμV/m)		Limit(dBμV/m)		Margin(dB)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
2478.000	94.86	111.22	-7.37	87.94	103.85	94	114	-6.51	-10.15	Vertical
2478.000	95.33	111.21	-7.37	87.96	103.84	94	114	-6.04	-10.16	Horizontal

Harmonics Radiated Emissions

Frequency (MHz)	Reading(dBμV/m)		Factor(dB) Corr.	Result(dBμV/m)		Limit(dBμV/m)		Margin(dB)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
4956.000	42.21	46.97	0.51	42.72	47.48	54	74	-11.28	-26.52	Vertical
4956.000	41.38	46.52	0.51	41.89	47.03	54	74	-12.11	-26.97	Horizontal

Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

   Result = Reading + Corrected Factor

   Where Corrected Factor = Antenna Factor + Cable Loss + High Pass Filter Loss – Amplifier Gain
3. The spectral diagrams in appendix I display the measurement of peak values.

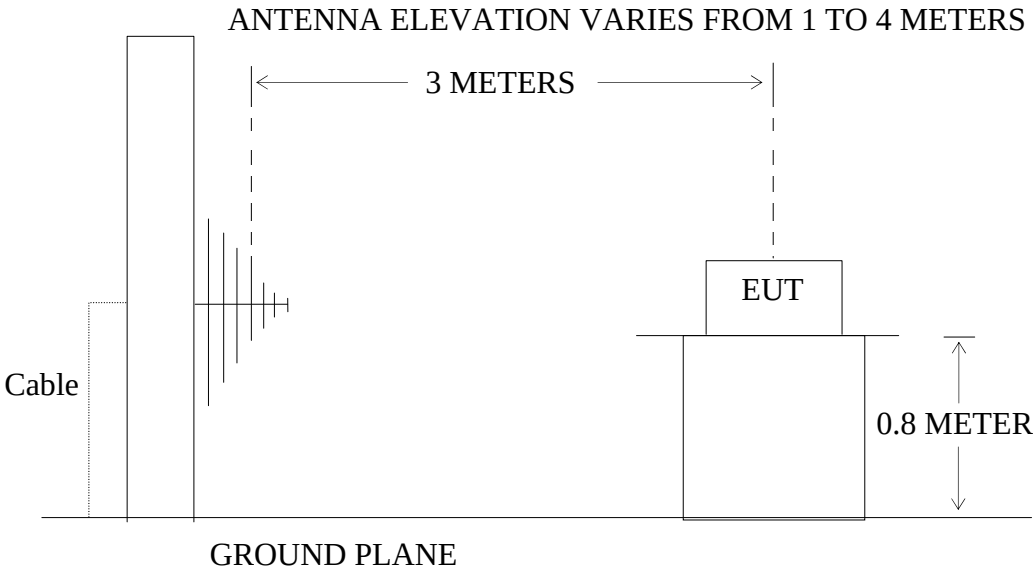
5. SPURIOUS RADIATED EMISSION FOR SECTION 15.249(D)

5.1.Block Diagram of Test Setup

5.1.1.Block diagram of connection between the EUT and simulators

(EUT: Wireless Keyboard)

5.1.2.Semi-Anechoic Chamber Test Setup Diagram



(EUT: Wireless Keyboard)

5.2.The Emission Limit For Section 15.249(d)

5.2.1.Emission radiated outside of the specified frequency bands, except for harmonics, shall be comply with the general radiated emission limits in Section 15.209.

Radiation Emission Measurement Limits According to Section 15.209

Frequency (MHz)	Limit		
	Field Strength of Quasi-peak Value (microvolts/m)	Field Strength of Quasi-peak Value (dBμV/m)	The final measurement in band 9-90kHz, 110-490kHz and above 1000MHz is performed with Average detector. Except those frequency bands mention above, the final measurement for frequencies below 1000MHz is performed with Quasi Peak detector.
30 - 88	100	40	
88 - 216	150	43.5	
216 - 960	200	46	
Above 960	500	54	

5.3.EUT Configuration on Measurement

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

5.3.1. Wireless Keyboard (EUT)

Model Number **:** DKB5101
Serial Number **:** N/A
Manufacturer **:** ATake Digital Technology Shenzhen Co., Ltd.

5.4.Operating Condition of EUT

5.4.1.Setup the EUT and simulator as shown as Section 5.1.

5.4.2.Turn on the power of all equipment.

5.4.3. Let the EUT work in TX modes measure it. The transmit frequency are 2402.000 - 2478.000 MHz MHz. We are select 2402.000MHz, 2442.000MHz, 2478.000MHz TX frequency to transmit.

5.5. Test Procedure

The EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down between 1.0 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 polarizations of the antenna are set on measurement. 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 measurement. The EUT was tested in 3 orthogonal planes.

The bandwidth of test receiver is set at 120kHz in 30-1000MHz. and set at 1MHz in above 1000MHz.

The frequency range from 30MHz to 25000MHz is checked.

The final measurement in band 9-90kHz, 110-490kHz and above 1000MHz is performed with Average detector. Except those frequency bands mention above, the final measurement for frequencies below 1000MHz is performed with Quasi Peak detector.

5.6. The Emission Measurement Result

PASS.

Date of Test:	December 24, 2011	Temperature:	25°C
EUT:	Wireless Keyboard	Humidity:	50%
Model No.:	DKB5101	Power Supply:	DC 1.5V
Test Mode:	TX 2402.000MHz	Test Engineer:	Pei

Frequency (MHz)	Reading (dBμV/m)	Factor(dB) Corr.	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
-	-	-	-	-	-	Vertical
-	-	-	-	-	-	Horizontal

Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

   Result = Reading + Corrected Factor

   Where Corrected Factor = Antenna Factor + Cable Loss + High Pass Filter Loss – Amplifier Gain
3. The spectral diagrams in appendix I display the measurement of peak values.

Date of Test:	December 24, 2011	Temperature:	25°C
EUT:	Wireless Keyboard	Humidity:	50%
Model No.:	DKB5101	Power Supply:	DC 1.5V
Test Mode:	TX 2442.000MHz	Test Engineer:	Pei

Frequency (MHz)	Reading (dBμV/m)	Factor(dB) Corr.	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
-	-	-	-	-	-	Vertical
-	-	-	-	-	-	Horizontal

Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

   Result = Reading + Corrected Factor

   Where Corrected Factor = Antenna Factor + Cable Loss + High Pass Filter Loss – Amplifier Gain
3. The spectral diagrams in appendix I display the measurement of peak values.

Date of Test:	December 24, 2011	Temperature:	25°C
EUT:	Wireless Keyboard	Humidity:	50%
Model No.:	DKB5101	Power Supply:	DC 1.5V
Test Mode:	TX 2478.000MHz	Test Engineer:	Pei

Frequency (MHz)	Reading (dBμV/m)	Factor(dB) Corr.	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
-	-	-	-	-	-	Vertical
-	-	-	-	-	-	Horizontal

Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

   Result = Reading + Corrected Factor

   Where Corrected Factor = Antenna Factor + Cable Loss + High Pass Filter Loss – Amplifier Gain
3. The spectral diagrams in appendix I display the measurement of peak values.

6. BAND EDGES

6.1.The Requirement

6.1.1.Band Edge from 2400MHz to 2483.5MHz. Emission radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

6.2.EUT Configuration on Measurement

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

6.2.1. Wireless Keyboard (EUT)

Model Number	**:**	DKB5101
Serial Number	**:**	N/A
Manufacturer	**:**	ATake Digital Technology Shenzhen Co., Ltd.

6.3.Operating Condition of EUT

6.3.1.Setup the EUT and simulator as shown as Section 4.1.

6.3.2.Turn on the power of all equipment.

6.3.3. Let the EUT work in TX modes measure it. The transmit frequency are 2402.000-2478.000MHz MHz. We are select 2402.000MHz, 2478.000MHz TX frequency to transmit.

6.4.Test Procedure

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 upper band-edges of the emission:
   RBW=1MHz, VBW=1MHz

6.5.The Measurement Result

Pass.

Date of Test:	December 24, 2011	Temperature:	25°C
EUT:	Wireless Keyboard	Humidity:	50%
Model No.:	DKB5101	Power Supply:	DC 1.5V
Test Mode:	TX 2402.000MHz	Test Engineer:	Pei

Frequency (MHz)	Reading(dBμV/m)		Factor(dB) Corr.	Result(dBμV/m)		Limit(dBμV/m)		Margin(dB)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
-	-	-	-	-	-	-	-	-	-	Vertical
-	-	-	-	-	-	-	-	-	-	Horizontal

Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

   Result = Reading + Corrected Factor

   Where Corrected Factor = Antenna Factor + Cable Loss + High Pass Filter Loss – Amplifier Gain
3. The spectral diagrams in appendix I display the measurement of peak values.

Date of Test:	December 24, 2011	Temperature:	25°C
EUT:	Wireless Keyboard	Humidity:	50%
Model No.:	DKB5101	Power Supply:	DC 1.5V
Test Mode:	TX 2478.000MHz	Test Engineer:	Pei

Frequency (MHz)	Reading(dBμV/m)		Factor(dB) Corr.	Result(dBμV/m)		Limit(dBμV/m)		Margin(dB)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
-	-	-	-	-	-	-	-	-	-	Vertical
-	-	-	-	-	-	-	-	-	-	Horizontal

Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

   Result = Reading + Corrected Factor

   Where Corrected Factor = Antenna Factor + Cable Loss + High Pass Filter Loss – Amplifier Gain
3. The spectral diagrams in appendix I display the measurement of peak values.

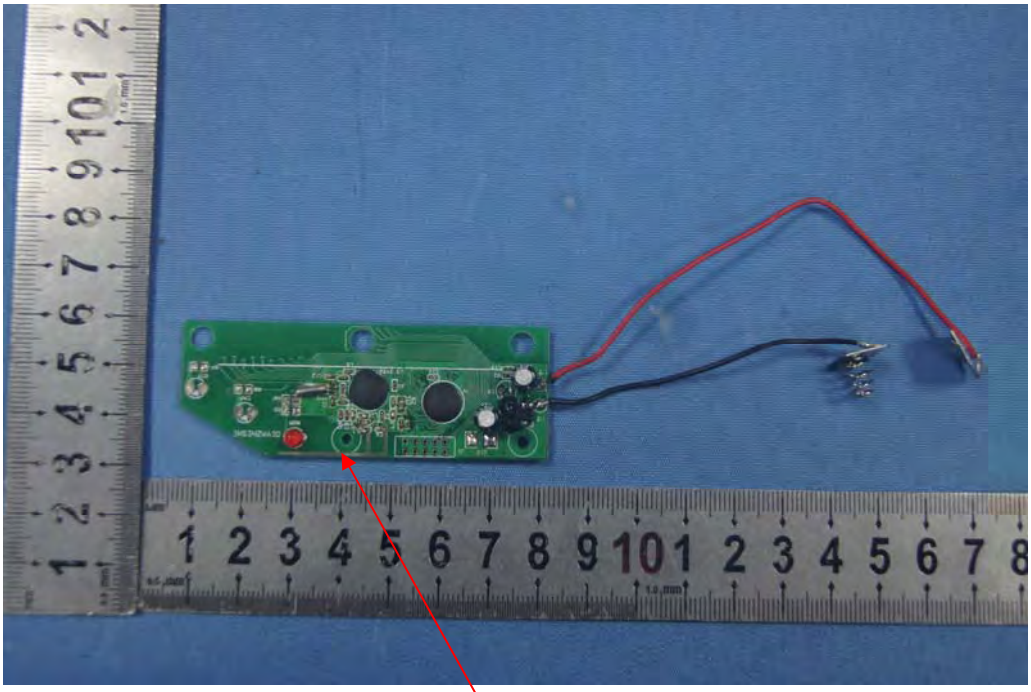
7. ANTENNA REQUIREMENT

7.1. The Requirement

7.1.1. According to 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.

7.2. Antenna Construction

The antenna is PCB Layout antenna, no consideration of replacement.

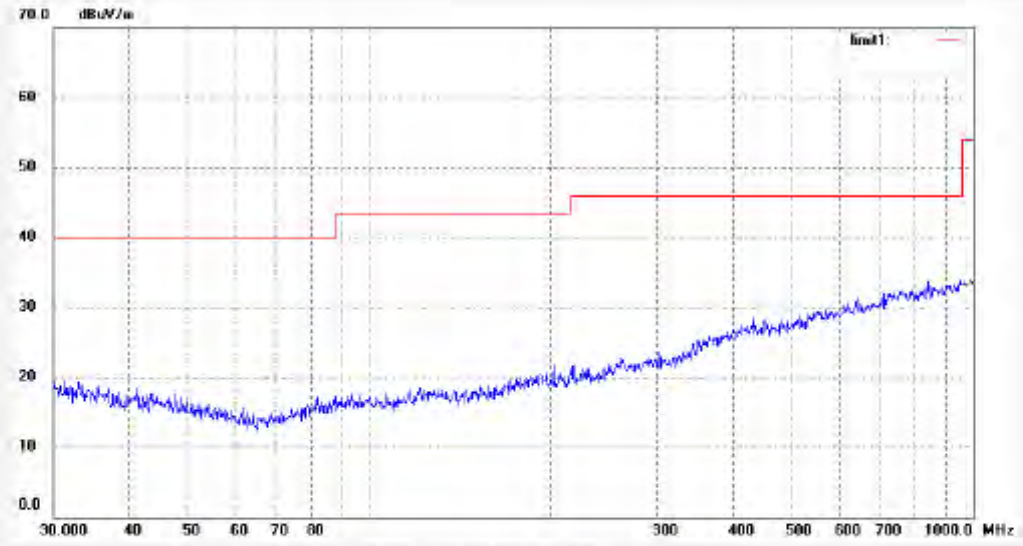


APPENDIX I
(Test Curves)

ACCURATE TECHNOLOGY CO., LTD.
F1,Bldg.A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China
Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Bob #806	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 1.5V
Test item: Radiation Test	Date: 11/12/23/
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 8/55/36
EUT: Wireless keyboard	Engineer Signature:
Mode: TX 2402	Distance: 3m
Model: DKB5101	
Manufacturer: ATake Digital	

Note: Report NO.: ATE20112760

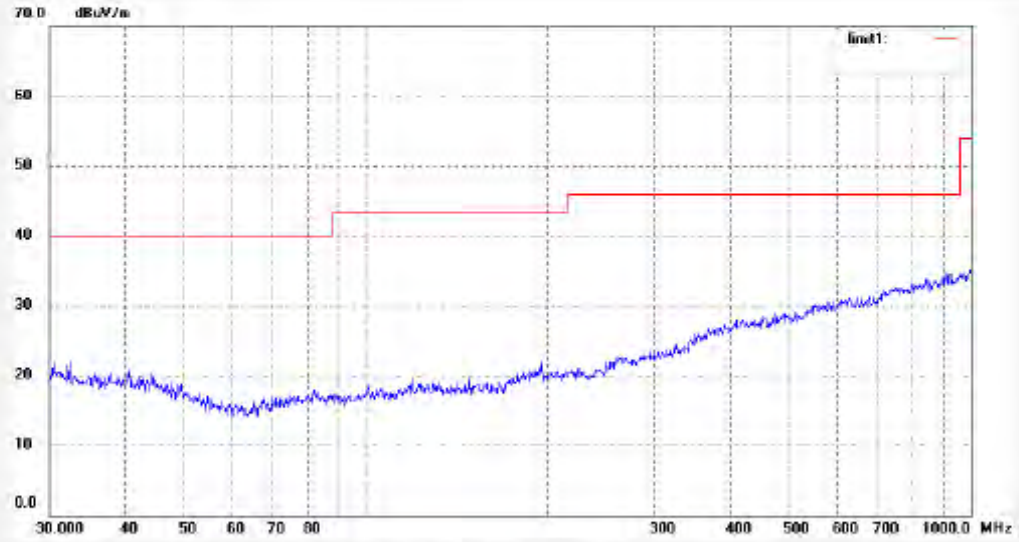


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark

ACCURATE TECHNOLOGY CO., LTD.
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China
Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Bob #807	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 1.5V
Test item: Radiation Test	Date: 11/12/23/
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 8/57/19
EUT: Wireless keyboard	Engineer Signature:
Mode: TX 2402	Distance: 3m
Model: DKB5101	
Manufacturer: ATake Digital	

Note: Report NO.: ATE20112760

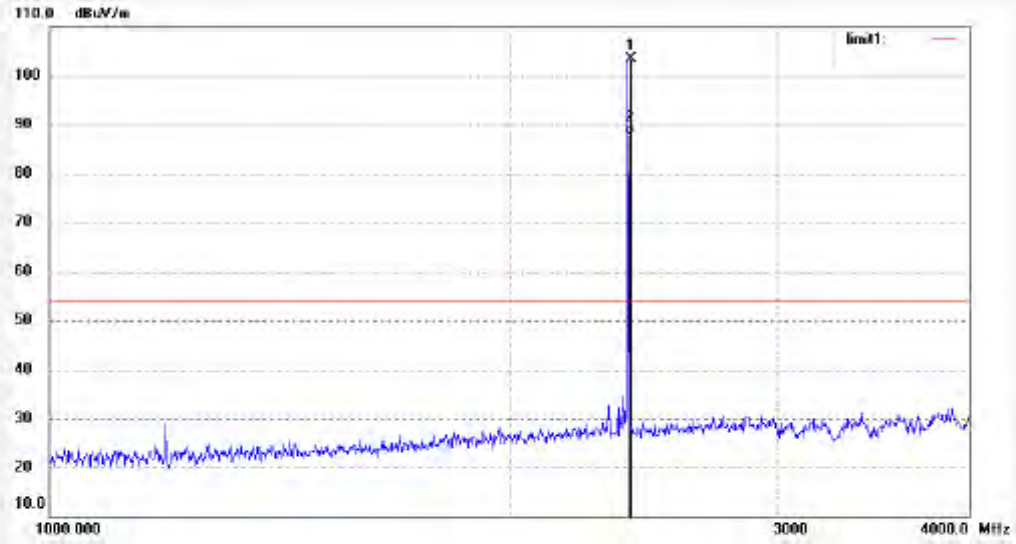


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark

ACCURATE TECHNOLOGY CO., LTD.
F1,Bldg.A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China
Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Bob #851	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 1.5V
Test item: Radiation Test	Date: 2011/12/24
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 13:41:40
EUT: Wireless keyboard	Engineer Signature:
Mode: TX 2402	Distance: 3m
Model: DKB5101	
Manufacturer: ATake Digital	

Note: Report NO.: ATE20112760



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2402.000	110.90	-7.45	103.45	114.00	-10.55	peak			
2	2402.000	95.21	-7.45	87.76	94.00	-6.24	AVG			

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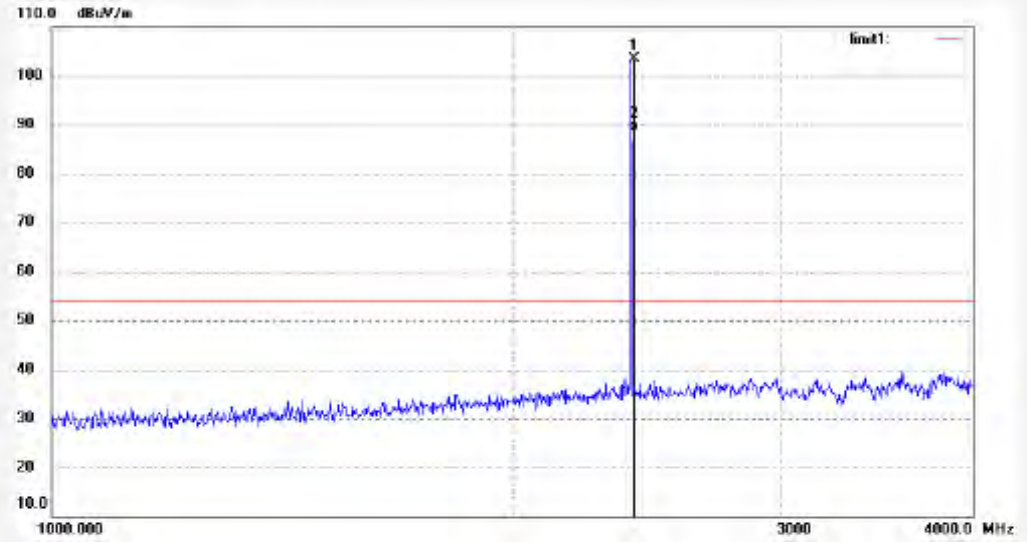
Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Bob #850
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 24 C / 48 %
EUT: Wireless keyboard
Mode: TX 2402
Model: DKB5101
Manufacturer: ATake Digital

Polarization: Vertical
Power Source: DC 1.5V
Date: 2011/12/24
Time: 13:38:05
Engineer Signature:
Distance: 3m

Note: Report NO.: ATE20112760



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2402.000	110.82	-7.45	103.37	114.00	-10.63	peak			
2	2402.000	96.17	-7.45	88.72	94.00	-5.28	AVG			

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Site: 966 chamber
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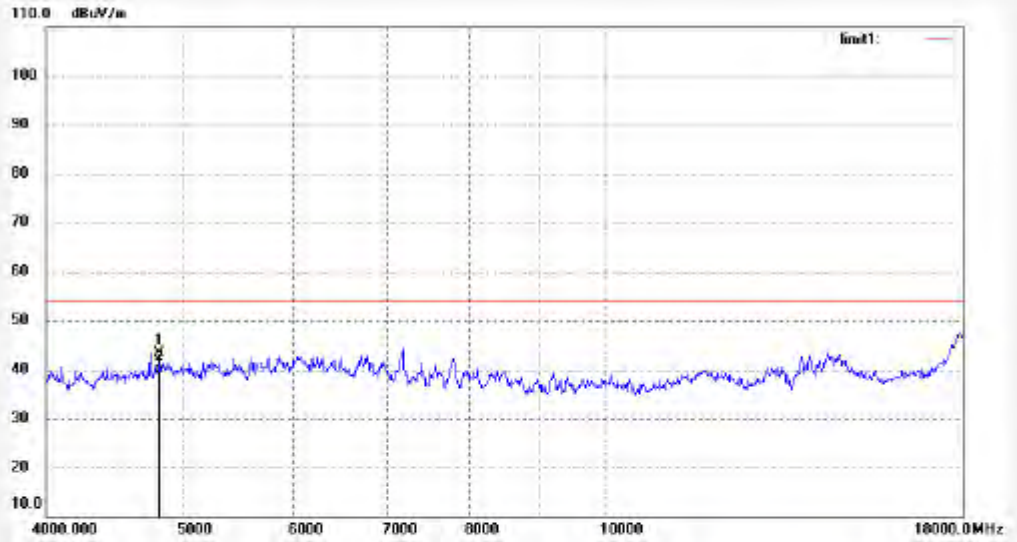
Fax:+86-0755-26503396

Job No.: Bob #856
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 24 C / 48 %
EUT: Wireless keyboard
Mode: TX 2402
Model: DKB5101
Manufacturer: ATake Digital

Polarization: Horizontal
Power Source: DC 1.5V
Date: 2011/12/24
Time: 16:37:33
Engineer Signature:
Distance: 3m

Note: Report NO.: ATE20112760



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	4804.000	43.70	-0.30	43.40	74.00	-30.60	peak			
2	4804.000	39.48	-0.30	39.18	54.00	-14.82	AVG			

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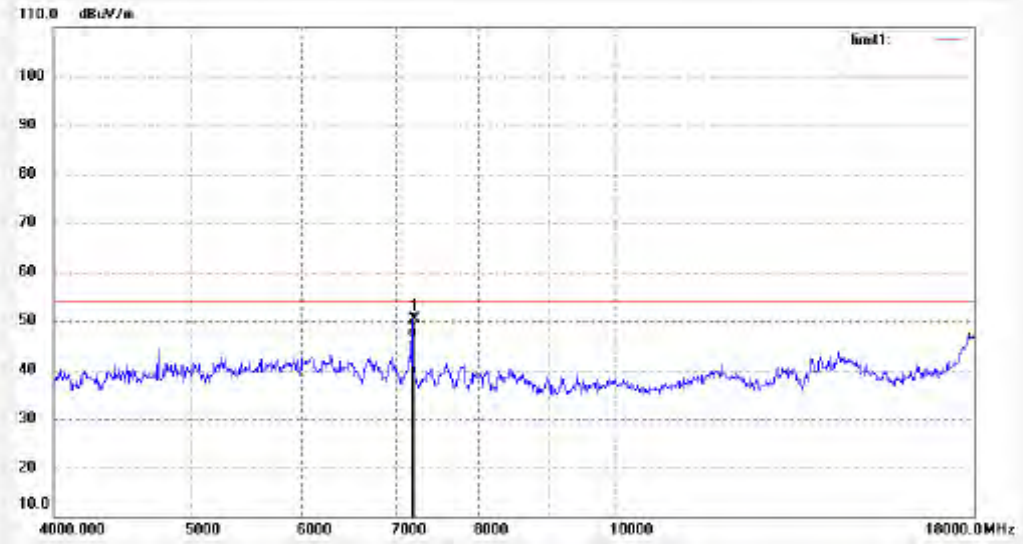
Fax:+86-0755-26503396

Job No.: Bob #857	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 1.5V
Test item: Radiation Test	Date: 2011/12/24
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 16:39:23
EUT: Wireless keyboard	Engineer Signature:
Mode: TX 2402	Distance: 3m
Model: DKB5101	
Manufacturer: ATake Digital	

Note: Report NO.: ATE20112760



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	7206.000	47.52	2.97	50.49	74.00	-23.51	peak			
2	7206.000	43.57	2.97	46.54	54.00	-7.46	AVG			

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Site: 966 chamber
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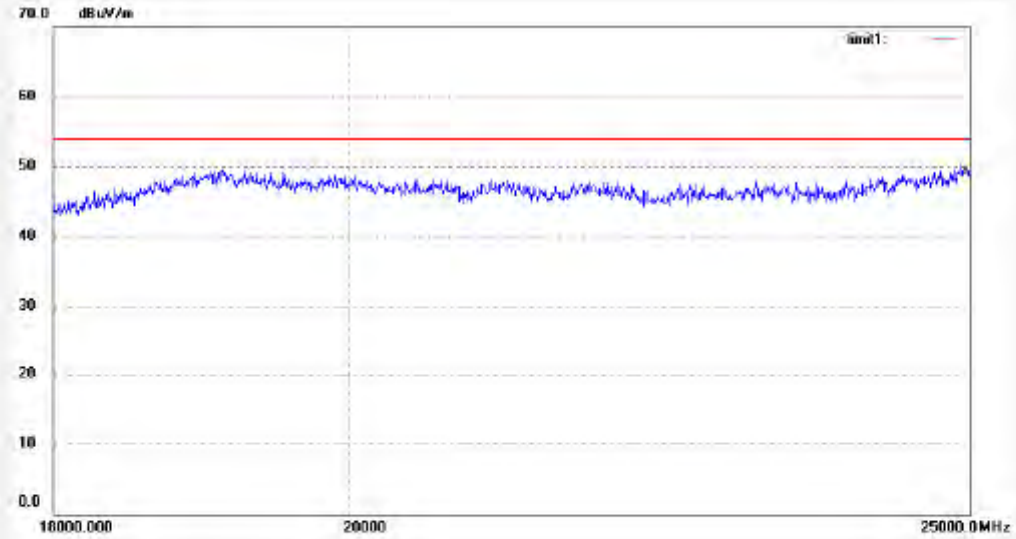
Fax:+86-0755-26503396

Job No.: Bob #901	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC1.5V
Test item: Radiation Test	Date: 2011/12/26
Temp.(C)/Hum.(%) 25 C / 50 %	Time: 11:52:09
EUT: Wireless keyboard	Engineer Signature: Bob
Mode: TX 2402	Distance: 3m
Model: DKB5101	
Manufacturer: ATake Digital	

Note: Report No.:ATE20112760



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark

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Site: 966 chamber
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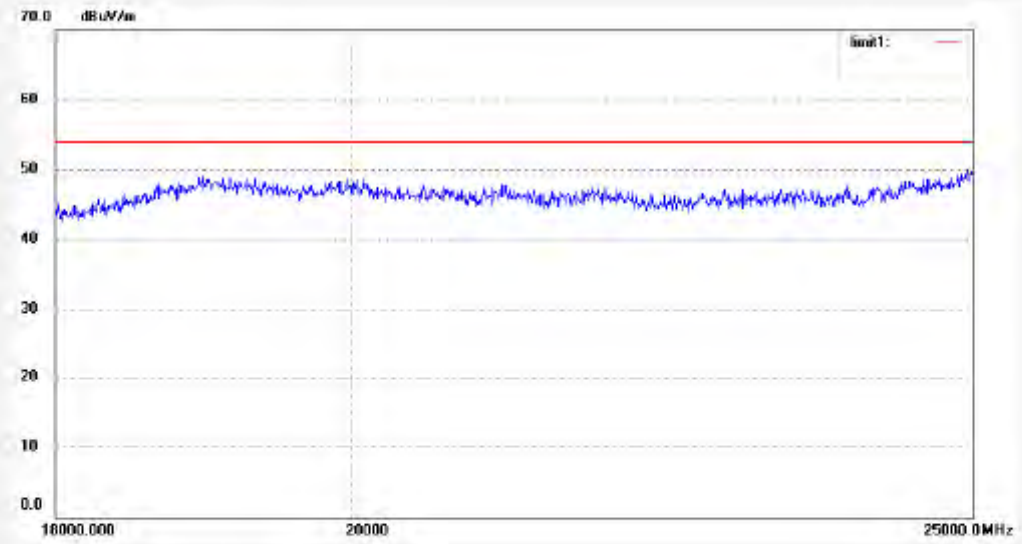
Fax:+86-0755-26503396

Job No.: Bob #902	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC1.5V
Test item: Radiation Test	Date: 2011/12/26
Temp.(C)/Hum.(%) 25 C / 50 %	Time: 11:56:43
EUT: Wireless keyboard	Engineer Signature: Bob
Mode: TX 2402	Distance: 3m
Model: DKB5101	
Manufacturer: ATake Digital	

Note: Report No.:ATE20112760



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark

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Science & Industry Park,Nanshan Shenzhen,P.R.China
Site: 966 chamber
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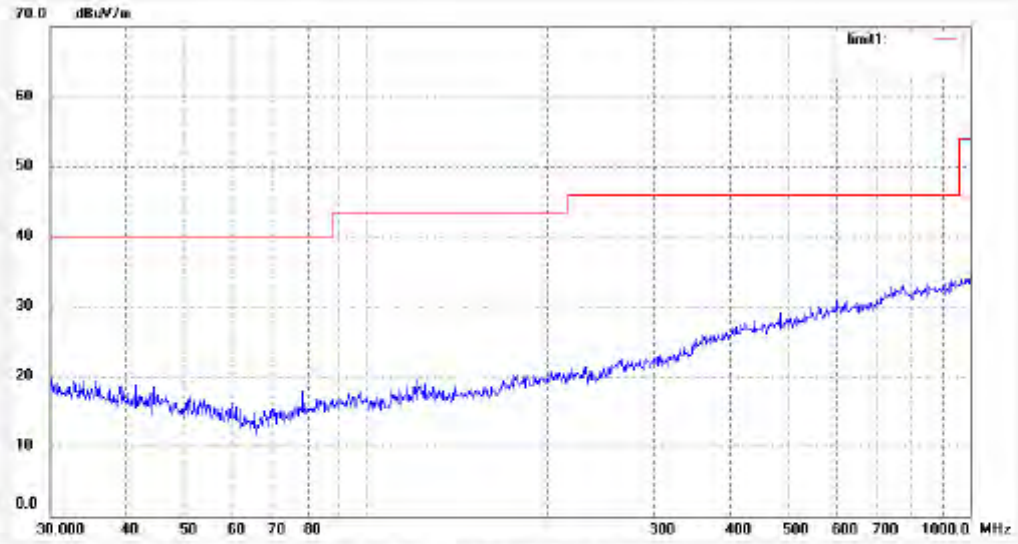
Fax:+86-0755-26503396

Job No.: Bob #809	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 1.5V
Test item: Radiation Test	Date: 11/12/23/
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 8/58/13
EUT: Wireless keyboard	Engineer Signature:
Mode: TX 2442	Distance: 3m
Model: DKB5101	
Manufacturer: ATake Digital	

Note: Report NO.: ATE20112760



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark

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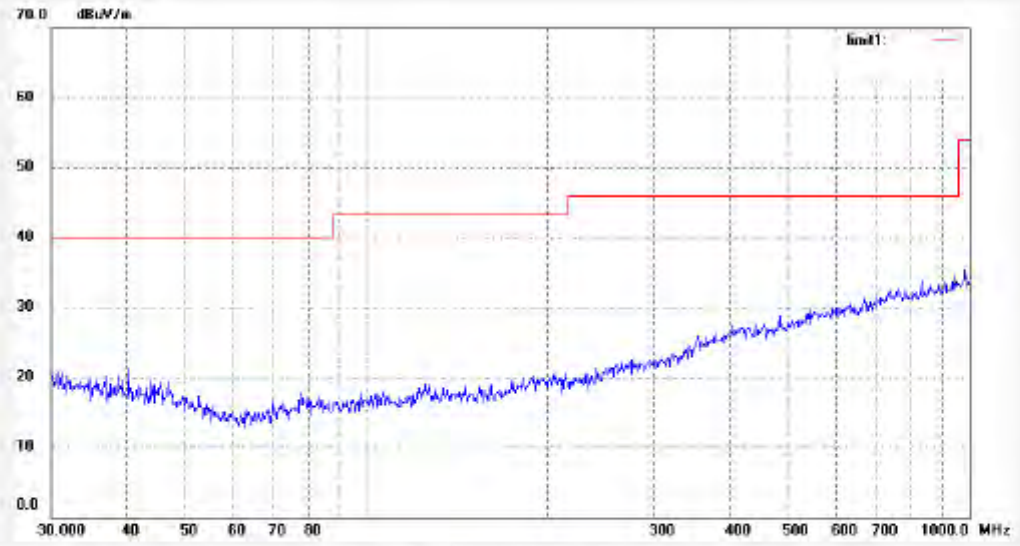
Fax:+86-0755-26503396

Job No.: Bob #808	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 1.5V
Test item: Radiation Test	Date: 11/12/23/
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 8/57/38
EUT: Wireless keyboard	Engineer Signature:
Mode: TX 2442	Distance: 3m
Model: DKB5101	
Manufacturer: ATake Digital	

Note: Report NO.: ATE20112760



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark

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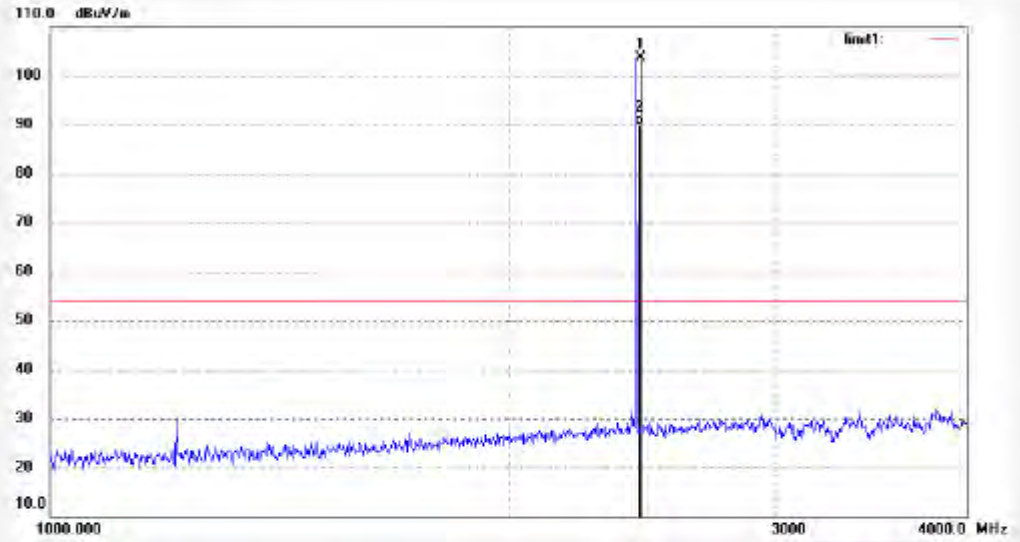
Fax:+86-0755-26503396

Job No.: Bob #852	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 1.5V
Test item: Radiation Test	Date: 2011/12/24
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 13:43:27
EUT: Wireless keyboard	Engineer Signature:
Mode: TX 2442	Distance: 3m
Model: DKB5101	
Manufacturer: ATake Digital	

Note: Report NO.: ATE20112760



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2442.000	111.02	-7.35	103.67	114.00	-10.33	peak			
2	2442.000	97.12	-7.35	89.77	94.00	-4.23	AVG			

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Site: 966 chamber
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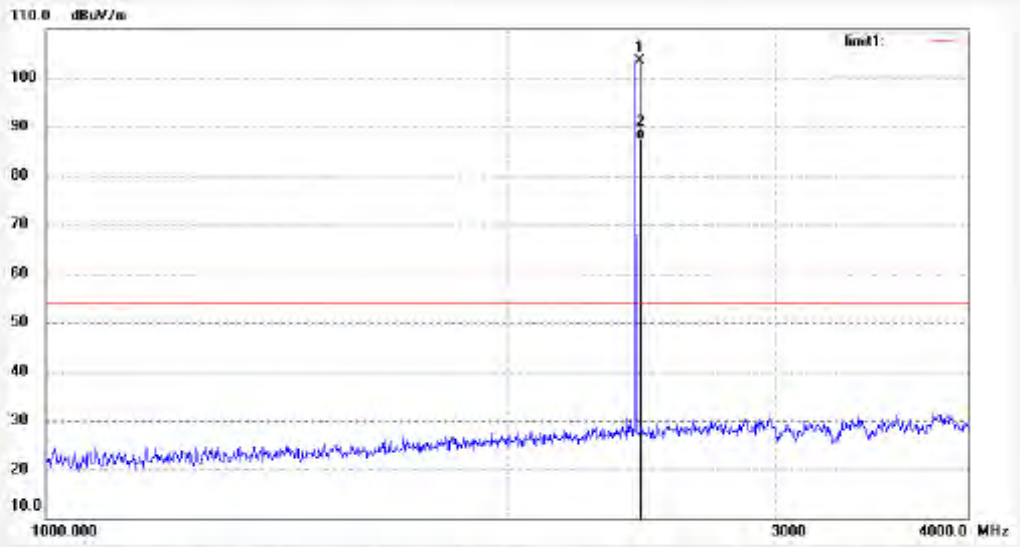
Fax:+86-0755-26503396

Job No.: Bob #853	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 1.5V
Test item: Radiation Test	Date: 2011/12/24
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 13:45:09
EUT: Wireless keyboard	Engineer Signature:
Mode: TX 2442	Distance: 3m
Model: DKB5101	
Manufacturer: ATake Digital	

Note: Report NO.: ATE20112760



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2442.000	110.80	-7.35	103.45	114.00	-10.55	peak			
2	2442.000	94.63	-7.35	87.28	94.00	-6.72	AVG			

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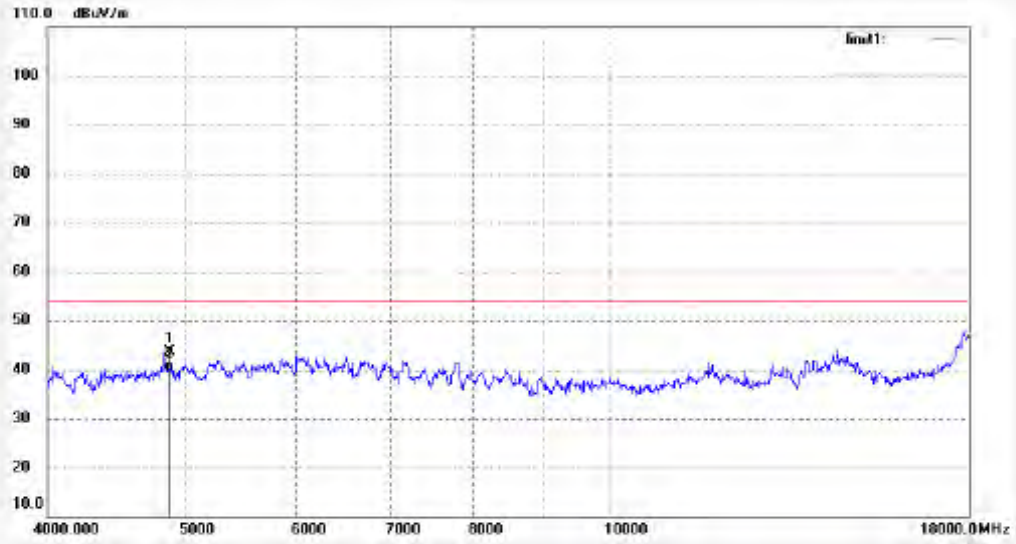
Fax:+86-0755-26503396

Job No.: Bob #859	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 1.5V
Test item: Radiation Test	Date: 2011/12/24
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 16:43:32
EUT: Wireless keyboard	Engineer Signature:
Mode: TX 2442	Distance: 3m
Model: DKB5101	
Manufacturer: ATake Digital	

Note: Report NO.: ATE20112760



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	4884.000	43.49	0.15	43.64	74.00	-30.36	peak			
2	4884.000	39.37	0.15	39.52	54.00	-14.48	AVG			

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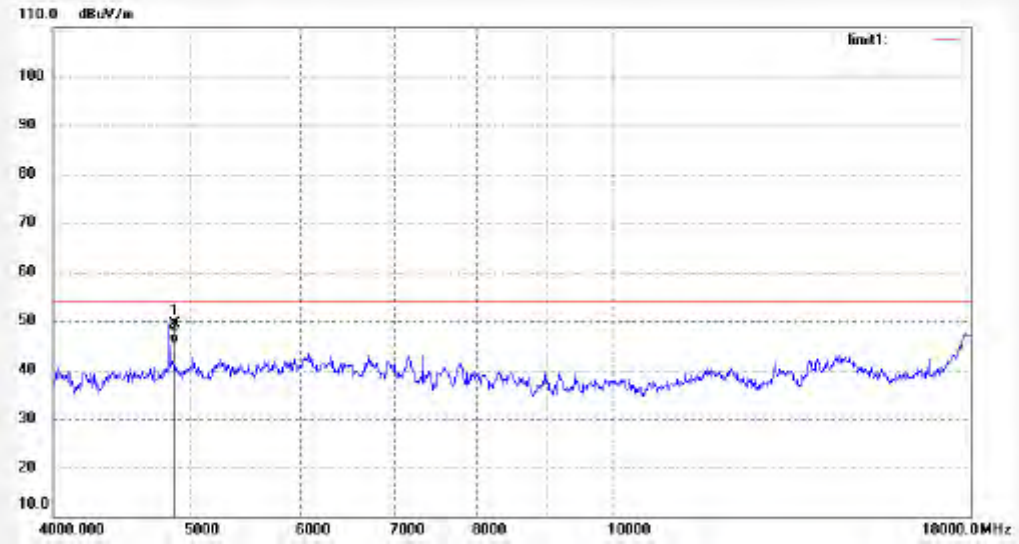
Fax:+86-0755-26503396

Job No.: Bob #858	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 1.5V
Test item: Radiation Test	Date: 2011/12/24
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 16:41:40
EUT: Wireless keyboard	Engineer Signature:
Mode: TX 2442	Distance: 3m
Model: DKB5101	
Manufacturer: ATake Digital	

Note: Report NO.: ATE20112760



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	4884.000	49.32	0.15	49.47	74.00	-24.53	peak			
2	4884.000	45.21	0.15	45.36	54.00	-8.64	AVG			

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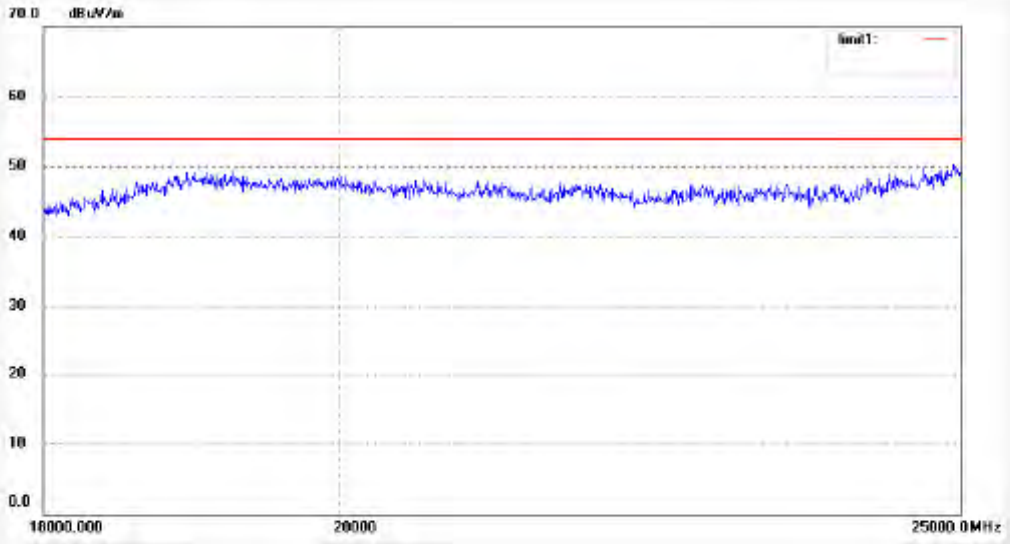
Fax:+86-0755-26503396

Job No.: Bob #904	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC1.5V
Test item: Radiation Test	Date: 2011/12/26
Temp.(C)/Hum.(%) 25 C / 50 %	Time: 12:05:30
EUT: Wireless keyboard	Engineer Signature: Bob
Mode: TX 2442	Distance: 3m
Model: DKB5101	
Manufacturer: ATake Digital	

Note: Report No.:ATE20112760



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark

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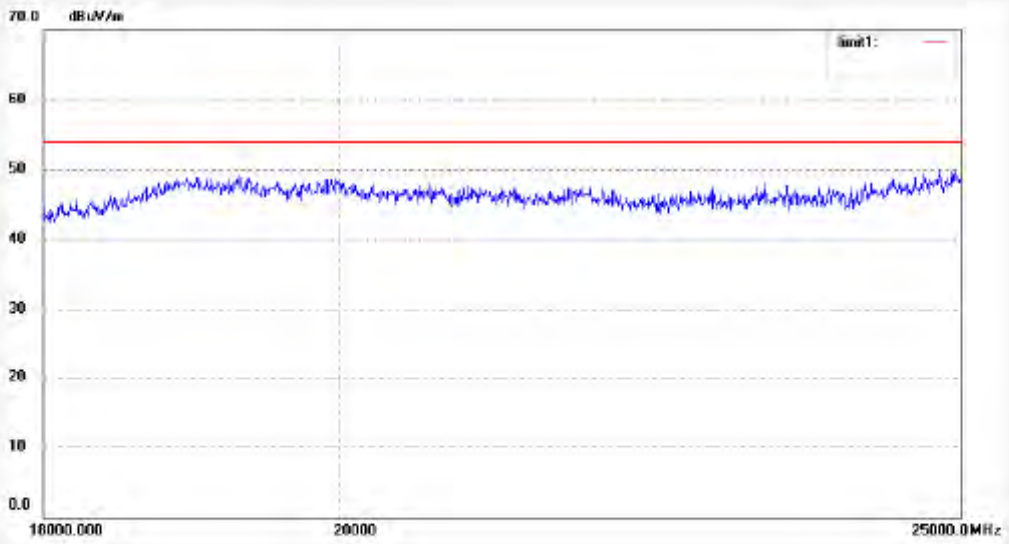
Fax:+86-0755-26503396

Job No.: Bob #903	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC1.5V
Test item: Radiation Test	Date: 2011/12/26
Temp.(C)/Hum.(%) 25 C / 50 %	Time: 12:01:19
EUT: Wireless keyboard	Engineer Signature: Bob
Mode: TX 2442	Distance: 3m
Model: DKB5101	
Manufacturer: ATake Digital	

Note: Report No.:ATE20112760



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark

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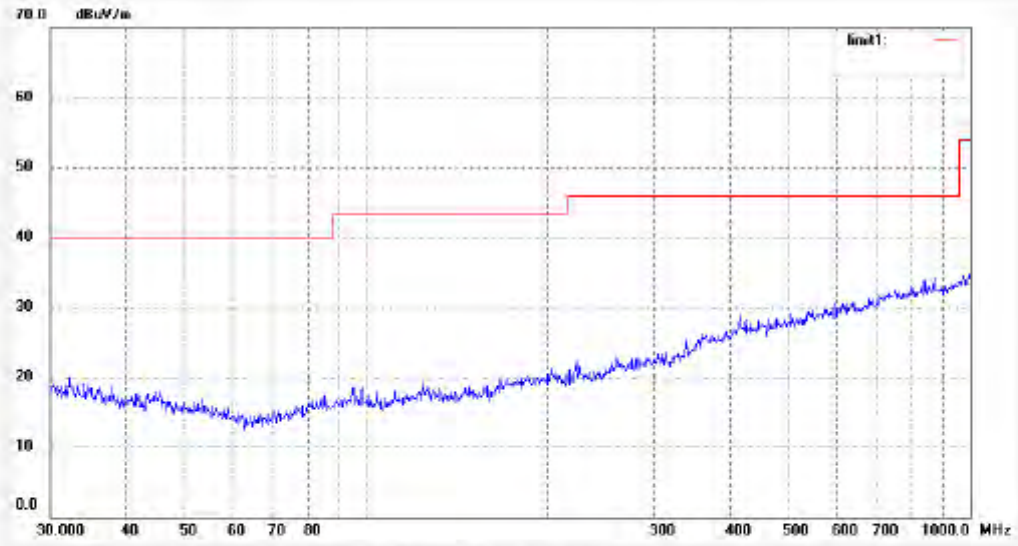
Job No.: Bob #810	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 1.5V
Test item: Radiation Test	Date: 11/12/23/
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 8/58/43
EUT: Wireless keyboard	Engineer Signature:
Mode: TX 2478	Distance: 3m
Model: DKB5101	
Manufacturer: ATake Digital	

Note: Report NO.: ATE20112760



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark

ACCURATE TECHNOLOGY CO., LTD.
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Site: 966 chamber
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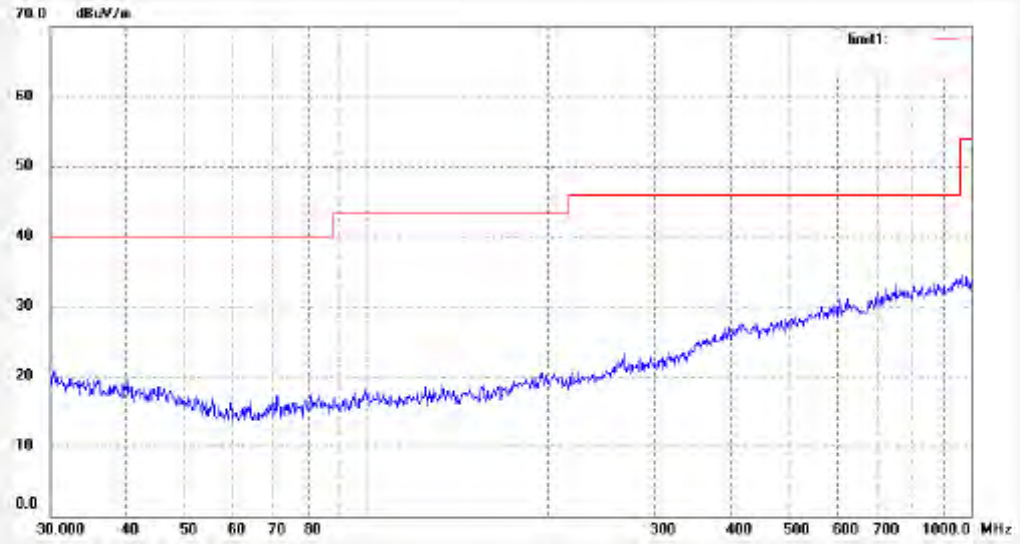
Fax:+86-0755-26503396

Job No.: Bob #811	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 1.5V
Test item: Radiation Test	Date: 11/12/23/
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 8/59/12
EUT: Wireless keyboard	Engineer Signature:
Mode: TX 2478	Distance: 3m
Model: DKB5101	
Manufacturer: ATake Digital	

Note: Report NO.: ATE20112760



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark

ACCURATE TECHNOLOGY CO., LTD.
F1,Bldg.A,Changyuan New Material Port Keyuan Rd,
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Site: 966 chamber
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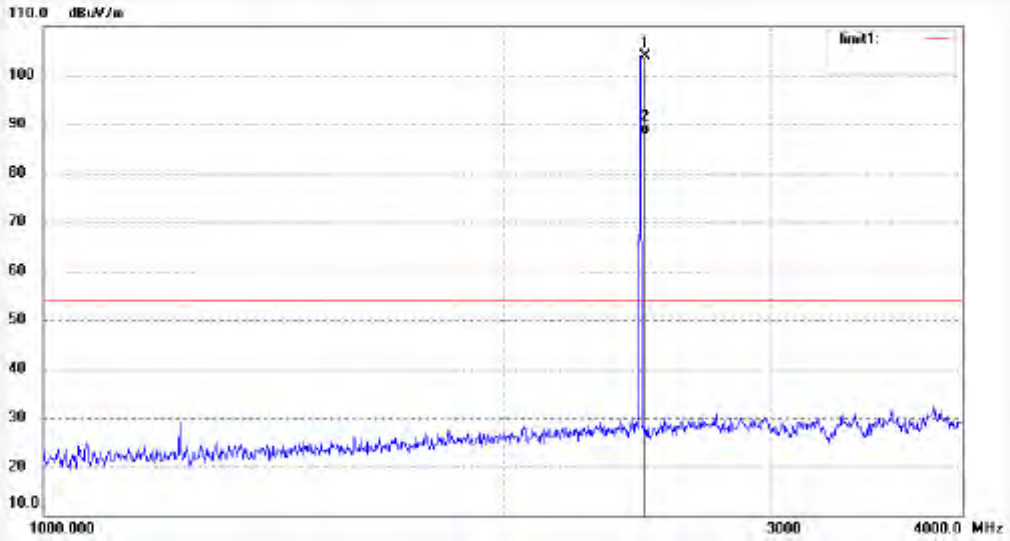
Fax:+86-0755-26503396

Job No.: Bob #855
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 24 C / 48 %
EUT: Wireless keyboard
Mode: TX 2478
Model: DKB5101
Manufacturer: ATake Digital

Polarization: Horizontal
Power Source: DC 1.5V
Date: 2011/12/24
Time: 13:48:59
Engineer Signature:
Distance: 3m

Note: Report NO.: ATE20112760



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2478.000	111.21	-7.37	103.84	114.00	-10.16	peak			
2	2478.000	95.33	-7.37	87.96	94.00	-6.04	AVG			

ACCURATE TECHNOLOGY CO., LTD.
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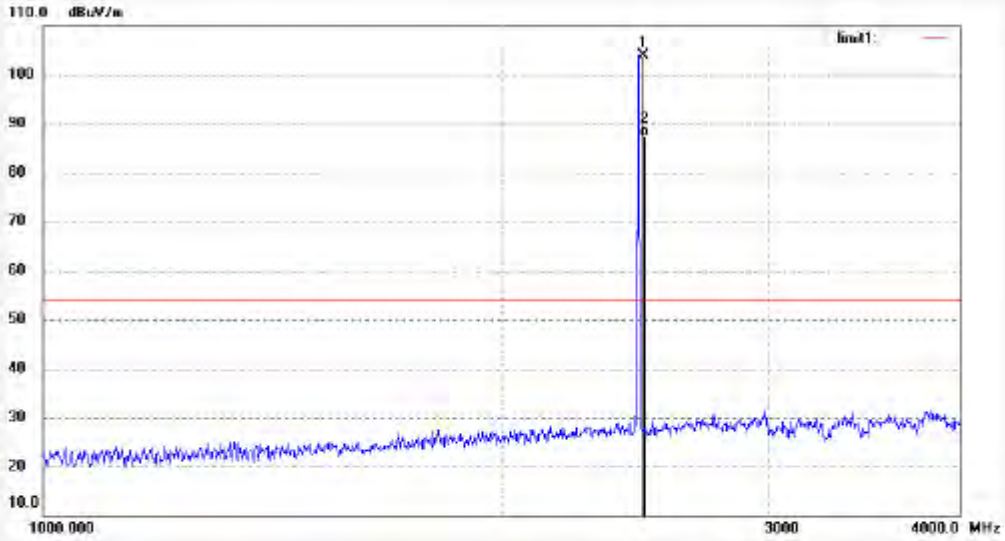
Job No.: Bob #854	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 1.5V
Test item: Radiation Test	Date: 2011/12/24
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 13:47:01
EUT: Wireless keyboard	Engineer Signature:
Mode: TX 2478	Distance: 3m
Model: DKB5101	
Manufacturer: ATake Digital	

Note: Report NO.: ATE20112760



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2478.000	111.22	-7.37	103.85	114.00	-10.15	peak			
2	2478.000	94.86	-7.37	87.49	94.00	-6.51	AVG			

ACCURATE TECHNOLOGY CO., LTD.
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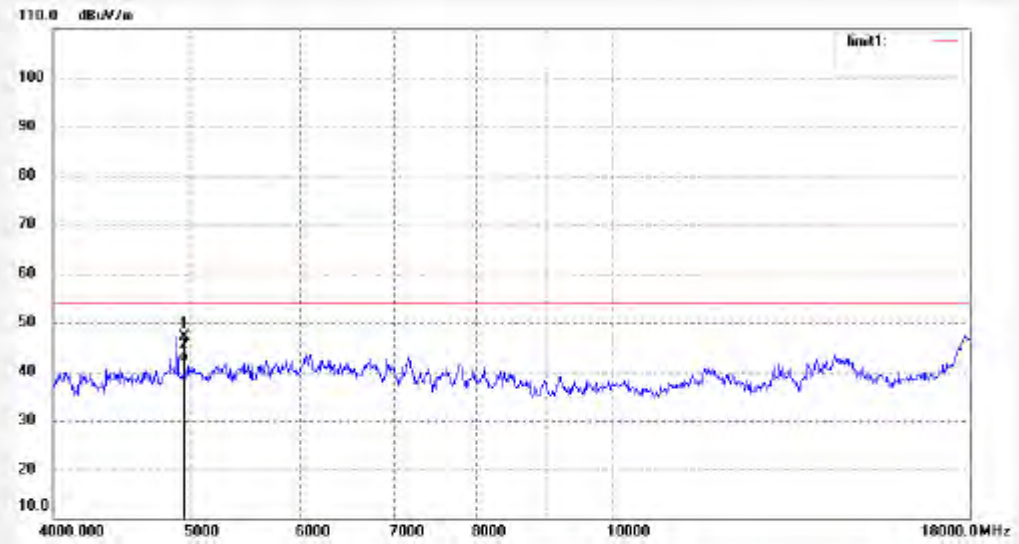
Fax:+86-0755-26503396

Job No.: Bob #860
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 24 C / 48 %
EUT: Wireless keyboard
Mode: TX 2478
Model: DKB5101
Manufacturer: ATake Digital

Polarization: Horizontal
Power Source: DC 1.5V
Date: 2011/12/24
Time: 16:45:00
Engineer Signature:
Distance: 3m

Note: Report NO.: ATE20112760



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	4956.000	46.52	0.51	47.03	74.00	-26.97	peak			
2	4956.000	41.38	0.51	41.89	54.00	-12.11	AVG			

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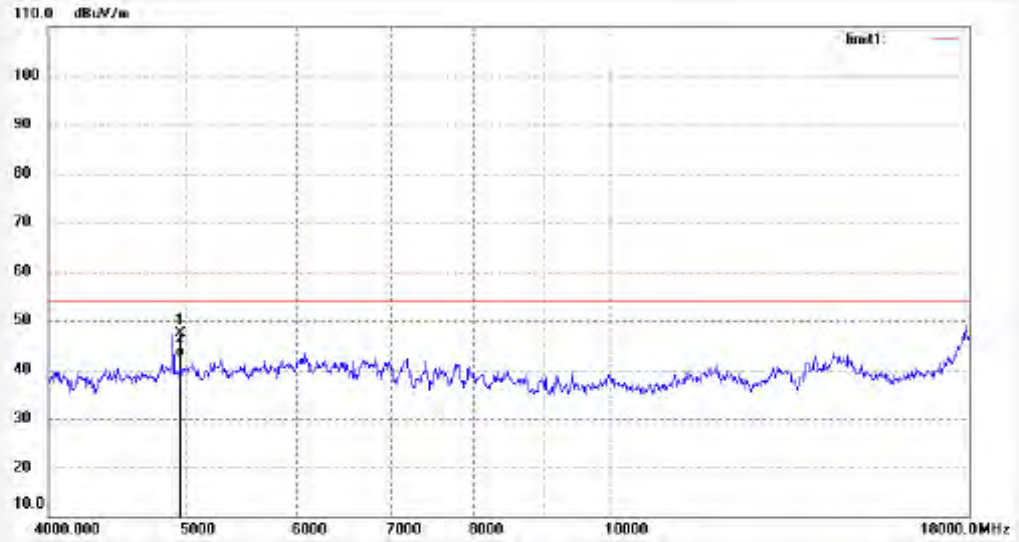
Science & Industry Park,Nanshan Shenzhen,P.R.China
Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Bob #861	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 1.5V
Test item: Radiation Test	Date: 2011/12/24
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 16:46:38
EUT: Wireless keyboard	Engineer Signature:
Mode: TX 2478	Distance: 3m
Model: DKB5101	
Manufacturer: ATake Digital	

Note: Report NO.: ATE20112760



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	4956.000	46.97	0.51	47.48	74.00	-26.52	peak			
2	4956.000	42.21	0.51	42.72	54.00	-11.28	AVG			

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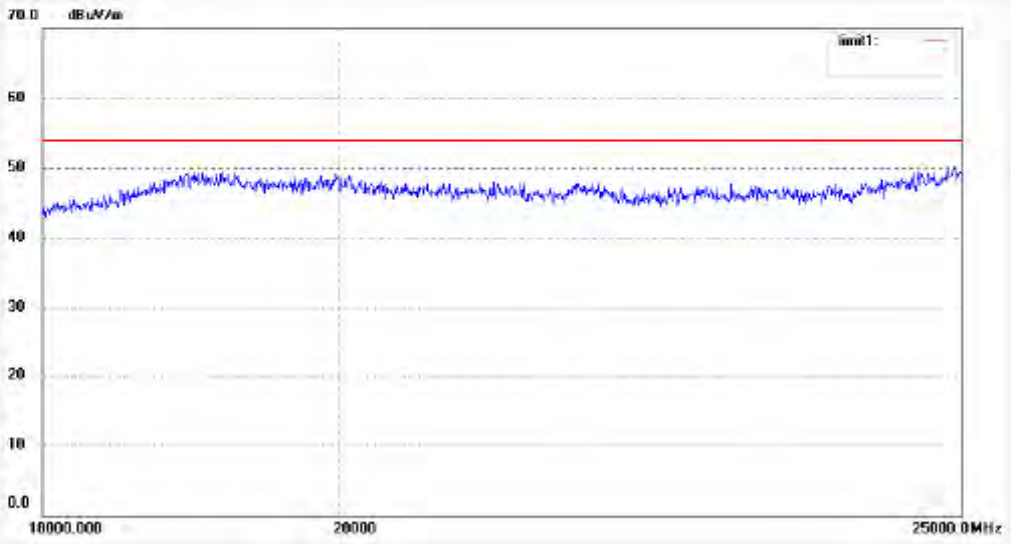
Fax:+86-0755-26503396

Job No.: Bob #905	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC1.5V
Test item: Radiation Test	Date: 2011/12/26
Temp.(C)/Hum.(%) 25 C / 50 %	Time: 12:10:41
EUT: Wireless keyboard	Engineer Signature: Bob
Mode: TX 2478	Distance: 3m
Model: DKB5101	
Manufacturer: ATake Digital	

Note: Report No.:ATE20112760



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark

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Site: 966 chamber
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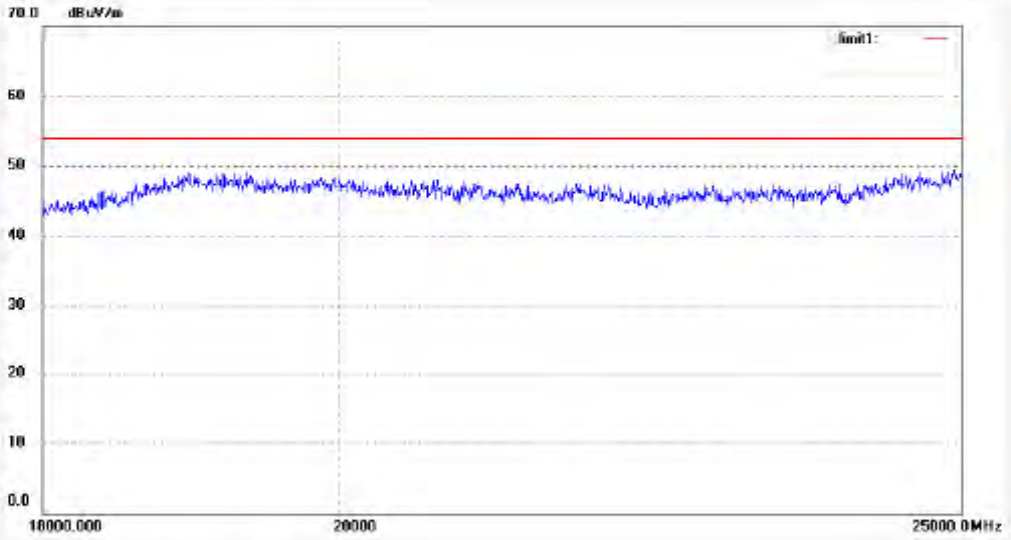
Fax:+86-0755-26503396

Job No.: Bob #906	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC1.5V
Test item: Radiation Test	Date: 2011/12/26
Temp.(C)/Hum.(%) 25 C / 50 %	Time: 12:15:08
EUT: Wireless keyboard	Engineer Signature: Bob
Mode: TX 2478	Distance: 3m
Model: DKB5101	
Manufacturer: ATake Digital	

Note: Report No.:ATE20112760



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark

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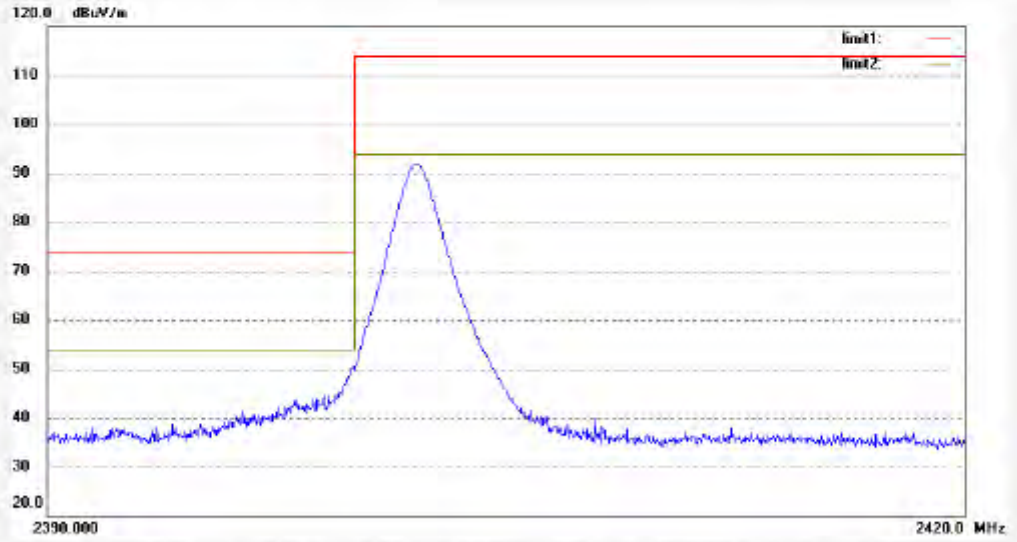
Science & Industry Park,Nanshan Shenzhen,P.R.China
Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Bob #825	Polarization: Horizontal
Standard: FCC Part 15 PEAK 2.4G	Power Source: DC 1.5V
Test item: Radiation Test	Date: 11/12/23/
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 9/41/18
EUT: Wireless keyboard	Engineer Signature:
Mode: TX 2402	Distance: 3m
Model: DKB5101	
Manufacturer: ATake Digital	

Note: Report NO.: ATE20112760



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark

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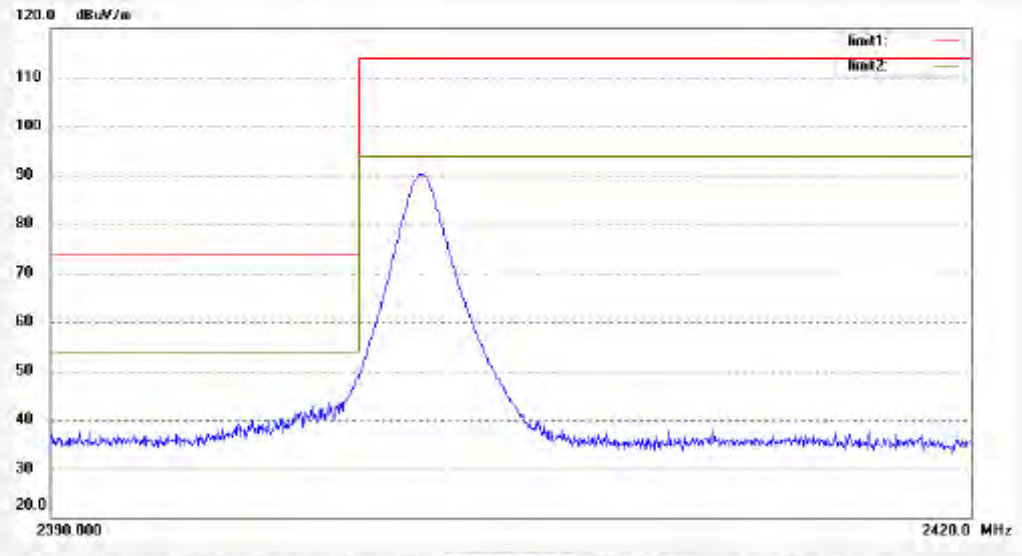
Science & Industry Park,Nanshan Shenzhen,P.R.China
Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Bob #824	Polarization: Vertical
Standard: FCC Part 15 PEAK 2.4G	Power Source: DC 1.5V
Test item: Radiation Test	Date: 11/12/23/
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 9/39/39
EUT: Wireless keyboard	Engineer Signature:
Mode: TX 2402	Distance: 3m
Model: DKB5101	
Manufacturer: ATake Digital	

Note: Report NO.: ATE20112760



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark

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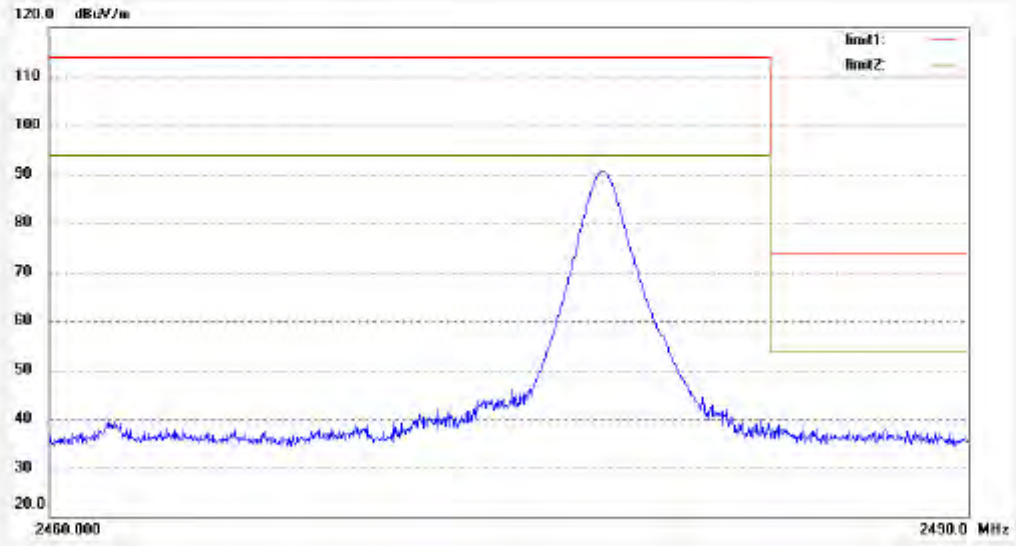
F1,Bldg.A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China
Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Bob #822	Polarization: Horizontal
Standard: FCC Part 15 PEAK 2.4G	Power Source: DC 1.5V
Test item: Radiation Test	Date: 11/12/23/
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 9/35/59
EUT: Wireless keyboard	Engineer Signature:
Mode: TX 2478	Distance: 3m
Model: DKB5101	
Manufacturer: ATake Digital	

Note: Report NO.: ATE20112760



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark

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F1,Bldg.A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China
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Tel:+86-0755-26503290
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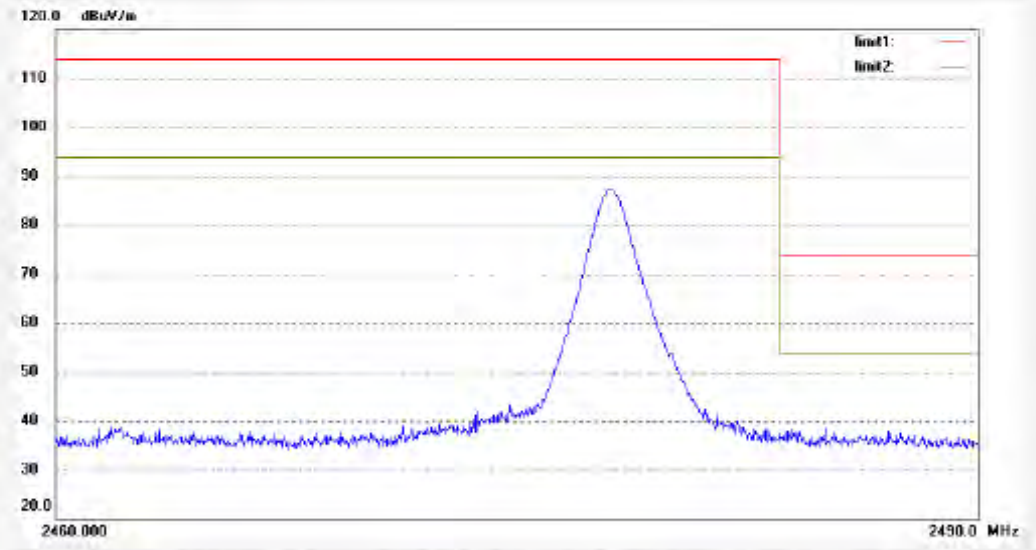
Job No.: Bob #823	Polarization: Vertical
Standard: FCC Part 15 PEAK 2.4G	Power Source: DC 1.5V
Test item: Radiation Test	Date: 11/12/23/
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 9/37/36
EUT: Wireless keyboard	Engineer Signature:
Mode: TX 2478	Distance: 3m
Model: DKB5101	
Manufacturer: ATake Digital	

Note: Report NO.: ATE20112760



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark