

FCC CERTIFICATION
On Behalf of
LUMISOURCE, LLC.

Wireless Kit
Model No.: Wireless Kit

FCC ID: PZVWIRELESSKIT

Prepared for : LUMISOURCE, LLC.
Address : 2950 OLD HIGGINS ROAD, ELK GROVE VILLAGE,
ILLINOIS 60007, USA

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Report Number : ATE20122171
Date of Test : September 12-19, 2012
Date of Report : September 19, 2012

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APPENDIX I (TEST CURVES) (18 pages)

Test Report Certification

Measurement Procedure Used:

FCC Rules and Regulations Part 15 Subpart C Section 15.249 ANSI C63.4: 2009

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 : September 12-19, 2012

Prepared by :

(Engineer)

Approved & Authorized Signer :


(Manager)

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

EUT : Wireless Kit

Model Number : Wireless Kit

Power Supply : 6V DC ("AA" battery 4×) Or DC 5V
(Power by adapter)

Transmitting Frequency : 914.0000-915.0000MHz

Applicant : LUMISOURCE, LLC.

Address : 2950 OLD HIGGINS ROAD, ELK GROVE VILLAGE,
ILLINOIS 60007, USA

Manufacturer : SINOSOURCE, INC.

Address : LIBEILING DISTRICT, DALANG TOWN,
DONGGUAN CITY, GUANGDONG PROVINCE,
CHINA

Date of sample received : September 12, 2012

Date of Test : September 12-19, 2012

1.2. Accessory and Auxiliary Equipment

1.2.1. Audio Generator

Model Number : GAG-810

Serial Number : D913311

Manufacturer : NEW AOKO

Power Cord : Shielded, Detachable, 1.5m

1.3.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

1.4.Measurement Uncertainty

Conducted Emission Expanded Uncertainty = 2.23dB, k=2

Radiated emission expanded uncertainty = 3.08dB, k=2
(9kHz-30MHz)

Radiated emission expanded uncertainty = 4.42dB, k=2
(30MHz-1000MHz)

Radiated emission expanded uncertainty = 4.06dB, k=2
(Above 1GHz)

2. MEASURING DEVICE AND TEST EQUIPMENT

Table 1: List of Test and Measurement Equipment

Kind of equipment	Manufacturer	Type	S/N	Calibrated dates	Calibrated until
EMI Test Receiver	Rohde&Schwarz	ESCS30	100307	Jan. 8, 2012	Jan. 7, 2013
EMI Test Receiver	Rohde&Schwarz	ESPI3	101526/003	Jan. 8, 2012	Jan. 7, 2013
Spectrum Analyzer	Agilent	E7405A	MY45115511	Jan. 8, 2012	Jan. 7, 2013
Pre-Amplifier	Rohde&Schwarz	CBLU118354 0-01	3791	Jan. 8, 2012	Jan. 7, 2013
Loop Antenna	Schwarzbeck	FMZB1516	1516131	Jan. 8, 2012	Jan. 7, 2013
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	Jan. 8, 2012	Jan. 7, 2013
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	Jan. 8, 2012	Jan. 7, 2013
Horn Antenna	Schwarzbeck	BBHA9170	9170-359	Jan. 8, 2012	Jan. 7, 2013
LISN	Rohde&Schwarz	ESH3-Z5	100305	Jan. 8, 2012	Jan. 7, 2013
LISN	Schwarzbeck	NSLK8126	8126431	Jan. 8, 2012	Jan. 7, 2013

3. SUMMARY OF TEST RESULTS

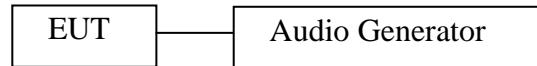
FCC Rules	Description of Test	Result
Section 15.207	Conducted Emission	Compliant
Section 15.249(a)	Fundamental and Harmonics Radiated Emission	Compliant
Section 15.249(d)	Spurious Radiated Emission	Compliant
Section 15.249(d)	Band Edge	Compliant
Section 15.203	Antenna Requirement	Compliant

Remark: “N/A” means “Not applicable”.

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

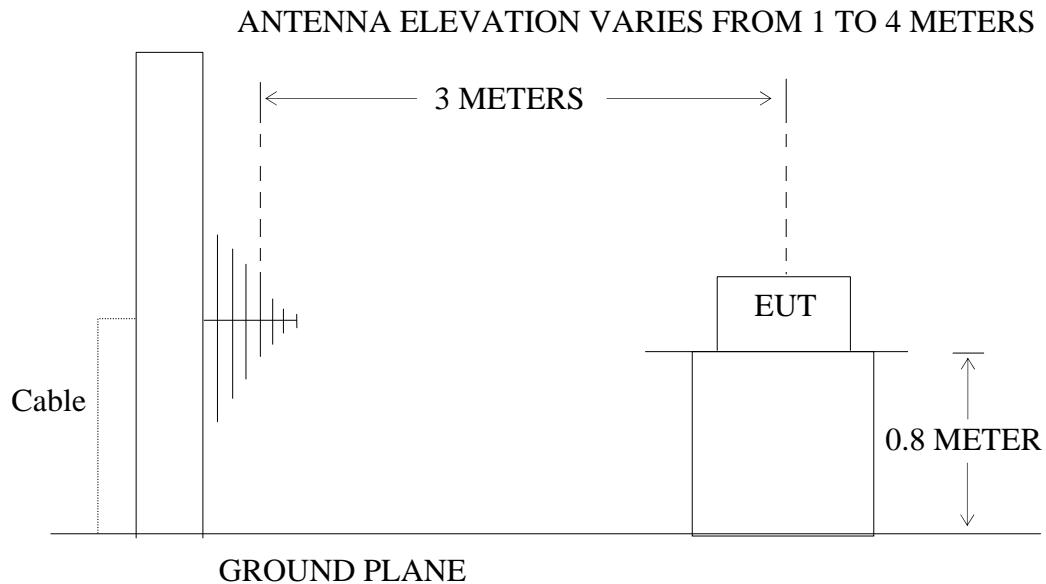
4.1. Block Diagram of Test Setup

4.1.1. Block diagram of connection between the EUT and simulators



(EUT: Wireless Kit)

4.1.2. Semi-Anechoic Chamber Test Setup Diagram



(EUT: Wireless Kit)

4.2.The Emission Limit

4.2.1.For intentional radiators, According to section 15.249(a), Operation within the frequency band of 902 to 928MHz, The fundamental field strength shall not exceed 94 dB μ V/m and the harmonics shall not exceed 54 dB μ V/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 is 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 Kit (EUT)

Model Number : Wireless Kit
 Serial Number : N/A

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 mode measure it. The transmit frequency are 914.0000-915.0000MHz. We are select 914.0000MHz, 914.5000MHz, 915.0000MHz 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 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: 2009 on radiated emission measurement.

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

4.6.The Field Strength of Radiation Emission Measurement Results PASS.

Date of Test:	September 15, 2012	Temperature:	21°C
EUT:	Wireless Kit	Humidity:	55%
Model No.:	Wireless Kit	Power Supply:	DC 6V
Test Mode:	TX 914.0000MHz	Test Engineer:	Kai

Fundamental Radiated Emissions

Frequency (MHz)	Reading(dB μ V/m) QP	Factor(dB) Corr.	Result(dB μ V/m) QP	Limit(dB μ V/m) QP	Margin(dB) QP	Polarization
914.0000	47.69	28.90	76.59	94.00	-17.41	Vertical
914.0000	49.48	28.90	78.38	94.00	-15.62	Horizontal

Harmonics Radiated Emissions

Frequency (MHz)	Reading(dB μ V/m)		Factor(dB) Corr.	Result(dB μ V/m)		Limit(dB μ V/m)		Margin(dB)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
1828.000	56.64	61.06	-9.75	46.89	51.31	54.00	74.00	-7.11	-22.69	Vertical
2742.000	51.34	56.70	-6.14	45.20	50.56	54.00	74.00	-8.80	-23.44	
3656.000	45.67	50.96	-2.57	43.10	48.39	54.00	74.00	-10.90	-25.61	
1828.000	55.51	60.54	-9.75	45.76	50.79	54.00	74.00	-8.24	-23.21	Horizontal
2742.000	50.02	55.06	-6.14	43.88	48.92	54.00	74.00	-10.12	-25.08	
3656.000	43.67	48.88	-2.57	41.10	46.31	54.00	74.00	-12.90	-27.69	

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:

$$\text{Result} = \text{Reading} + \text{Corrected Factor}$$

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: September 15, 2012
 EUT: Wireless Kit
 Model No.: Wireless Kit
 Test Mode: TX 914.5000MHz

Temperature: 21°C
 Humidity: 55%
 Power Supply: DC 6V
 Test Engineer: Kai

Fundamental Radiated Emissions

Frequency (MHz)	Reading(dB μ V/m)		Factor(dB) Corr.	Result(dB μ V/m)		Limit(dB μ V/m)		Margin(dB) QP	Polarization
	QP	Corr.		QP	Corr.	QP	Corr.		
914.5000	48.59	28.90		77.49		94.00		-16.51	Vertical
914.5000	47.55	28.90		76.45		94.00		-17.55	Horizontal

Harmonics Radiated Emissions

Frequency (MHz)	Reading(dB μ V/m)		Factor(dB) Corr.	Result(dB μ V/m)		Limit(dB μ V/m)		Margin(dB)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
1829.000	55.01	60.05	-9.74	45.27	50.31	54.00	74.00	-8.73	-23.69	Vertical
2745.500	49.57	54.13	-6.12	43.45	48.00	54.00	74.00	-10.55	-26.00	
3658.000	42.22	47.64	-2.56	39.66	45.08	54.00	74.00	-14.34	-28.92	
1829.000	55.17	60.02	-9.74	45.43	50.28	54.00	74.00	-8.57	-23.72	Horizontal
2743.500	49.65	54.47	-6.13	43.52	48.34	54.00	74.00	-10.48	-25.66	
3658.000	44.02	49.10	-2.56	41.46	46.53	54.00	74.00	-12.54	-27.47	

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:

$$\text{Result} = \text{Reading} + \text{Corrected Factor}$$

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: September 15, 2012
 EUT: Wireless Kit
 Model No.: Wireless Kit
 Test Mode: TX 915.0000MHz

Temperature: 21°C
 Humidity: 55%
 Power Supply: DC 6V
 Test Engineer: Kai

Fundamental Radiated Emissions

Frequency (MHz)	Reading(dB μ V/m)		Factor(dB) Corr.	Result(dB μ V/m)		Limit(dB μ V/m)		Margin(dB) QP	Polarization
	QP	Corr.		QP	Corr.	QP	Corr.		
915.0000	48.07	28.92		76.99		94.00		-17.01	Vertical
915.0000	48.56	28.92		77.48		94.00		-16.52	Horizontal

Harmonics Radiated Emissions

Frequency (MHz)	Reading(dB μ V/m)		Factor(dB) Corr.	Result(dB μ V/m)		Limit(dB μ V/m)		Margin(dB)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
1830.000	56.66	61.04	-9.37	46.93	51.31	54.00	74.00	-7.07	-22.69	Vertical
2745.000	51.47	56.12	-6.12	45.35	50.00	54.00	74.00	-8.65	-24.00	
3660.000	44.67	49.64	-2.56	42.11	47.08	54.00	74.00	-11.89	-26.92	
1830.000	56.69	61.02	-9.73	46.96	51.29	54.00	74.00	-7.04	-22.71	Horizontal
2745.000	50.48	55.91	-6.12	44.36	49.79	54.00	74.00	-9.64	-24.21	
3660.000	45.75	50.65	-2.56	43.19	48.09	54.00	74.00	-10.81	-25.91	

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:

$$\text{Result} = \text{Reading} + \text{Corrected Factor}$$

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)

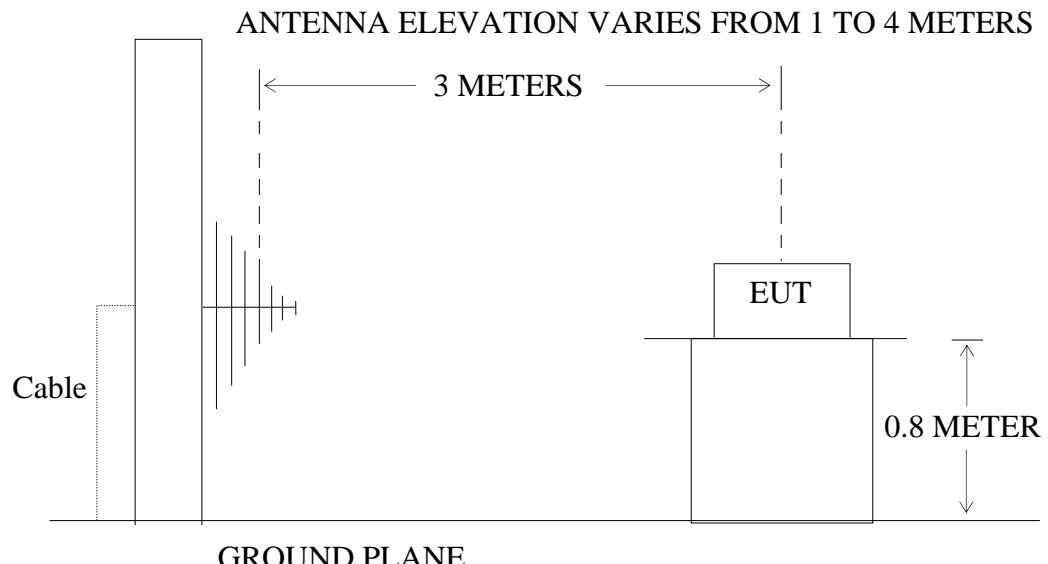
5.1. Block Diagram of Test Setup

5.1.1. Block diagram of connection between the EUT and simulators



(EUT: Wireless Kit)

5.1.2. Semi-Anechoic Chamber Test Setup Diagram



(EUT: Wireless Kit)

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		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.
	Field Strength (microvolts/meter)	Measurement Distance (meters)	
0.009 – 0.490	2400/F(kHz)	300	
0.490 – 1.705	24000/F(kHz)	30	
1.705 – 30.0	30	30	
30 - 88	100	3	
88 - 216	150	3	
216 - 960	200	3	
Above 960	500	3	

5.3.EUT Configuration on Measurement

The following equipment is installed on the Radiated 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 Kit (EUT)

Model Number : Wireless Kit
Serial Number : N/A

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 mode measure it. The transmit frequency are 914.0000-915.0000MHz MHz. We are select 914.0000MHz, 914.5000MHz, 915.0000MHz 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: 2009 on radiated emission measurement.

The bandwidth of test receiver is set at 9kHz in below 30MHz. and set at 120kHz in 30-1000MHz, and 1MHz in above 1000MHz.

The frequency range from 9kHz to 10GHz 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:	September 15, 2012	Temperature:	21°C
EUT:	Wireless Kit	Humidity:	55%
Model No.:	Wireless Kit	Power Supply:	DC 6V
Test Mode:	TX 914.0000MHz	Test Engineer:	Kai

Below 30MHz

Frequency (MHz)	Reading (dB μ V/m)	Factor(dB) Corr.	Result	Limit	Margin	Polarization
			(dB μ V/m)	(dB μ V/m)	(dB)	
-	-	-	-	-	-	X
-	-	-	-	-	-	Y
-	-	-	-	-	-	Z

30MHz-1GHz

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

1GHz-10GHz

Frequency (MHz)	Reading(dB μ V/m)		Factor Corr. (dB)	Result(dB μ V/m)		Limit(dB μ V/m)		Margin(dB μ V/m)		Polarizati on
	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:	September 15, 2012	Temperature:	21°C
EUT:	Wireless Kit	Humidity:	55%
Model No.:	Wireless Kit	Power Supply:	DC 6V
Test Mode:	TX 914.5000MHz	Test Engineer:	Kai

Below 30MHz

Frequency (MHz)	Reading (dB μ V/m)	Factor(dB) Corr.	Result	Limit	Margin	Polarization
			QP	QP	QP	
-	-	-	-	-	-	X
-	-	-	-	-	-	Y
-	-	-	-	-	-	Z

30MHz-1GHz

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

1GHz-10GHz

Frequency (MHz)	Reading(dB μ V/m)		Factor Corr. (dB)	Result(dB μ V/m)		Limit(dB μ V/m)		Margin(dB μ V/m)		Polarizati on
	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:	September 15, 2012	Temperature:	21°C
EUT:	Wireless Kit	Humidity:	55%
Model No.:	Wireless Kit	Power Supply:	DC 6V
Test Mode:	TX 915.0000MHz	Test Engineer:	Kai

Below 30MHz

Frequency (MHz)	Reading (dB μ V/m)	Factor(dB) Corr.	Result	Limit	Margin	Polarization
			QP	QP	QP	
-	-	-	-	-	-	X
-	-	-	-	-	-	Y
-	-	-	-	-	-	Z

30MHz-1GHz

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

1GHz-10GHz

Frequency (MHz)	Reading(dB μ V/m)		Factor Corr. (dB)	Result(dB μ V/m)		Limit(dB μ V/m)		Margin(dB μ V/m)		Polarizati on
	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.

6. BAND EDGES

6.1.The Requirement

6.1.1.Band Edge from 902MHz to 928MHz. 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 is 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 Kit (EUT)

Model Number : Wireless Kit
 Serial Number : N/A

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 mode measure it. The transmit frequency are 914.0000-915.0000MHz MHz. We are select 914.0000MHz, 915.0000MHz TX frequency to transmit.

6.4.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: 2009 on radiated emission measurement.

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

6.5.The Measurement Result

PASS.

Date of Test:	September 15, 2012	Temperature:	21°C
EUT:	Wireless Kit	Humidity:	55%
Model No.:	Wireless Kit	Power Supply:	DC 6V
Test Mode:	TX 914.0000MHz	Test Engineer:	Kai

Frequency (MHz)	Reading (dB μ V/m)	Factor(dB) Corr.	Result	Limit	Margin	Polarization
			QP	QP	QP	
902.0000	3.60	28.78	32.38	46.00	-13.62	Vertical
902.0000	5.69	28.78	34.47	46.00	-11.53	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: September 15, 2012
 EUT: Wireless Kit
 Model No.: Wireless Kit
 Test Mode: TX 915.0000MHz

Temperature: 21°C
 Humidity: 55%
 Power Supply: DC 6V
 Test Engineer: Kai

Frequency (MHz)	Reading (dB μ V/m)	Factor(dB) Corr.	Result	Limit	Margin	Polarization
			(dB μ V/m)	(dB μ V/m)	(dB)	
928.0000	3.71	29.22	32.93	46.00	-13.07	Vertical
928.0000	4.02	29.22	33.24	46.00	-12.76	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

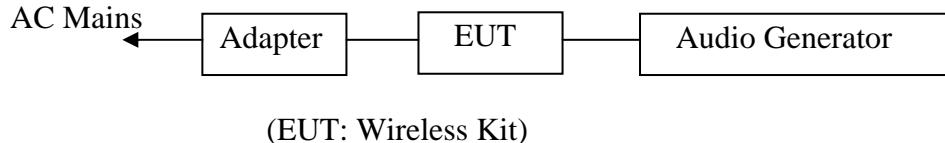
Where Corrected Factor = Antenna Factor + Cable Loss + High Pass Filter Loss – Amplifier Gain

3. The spectral diagrams in appendix I display the measurement of peak values.

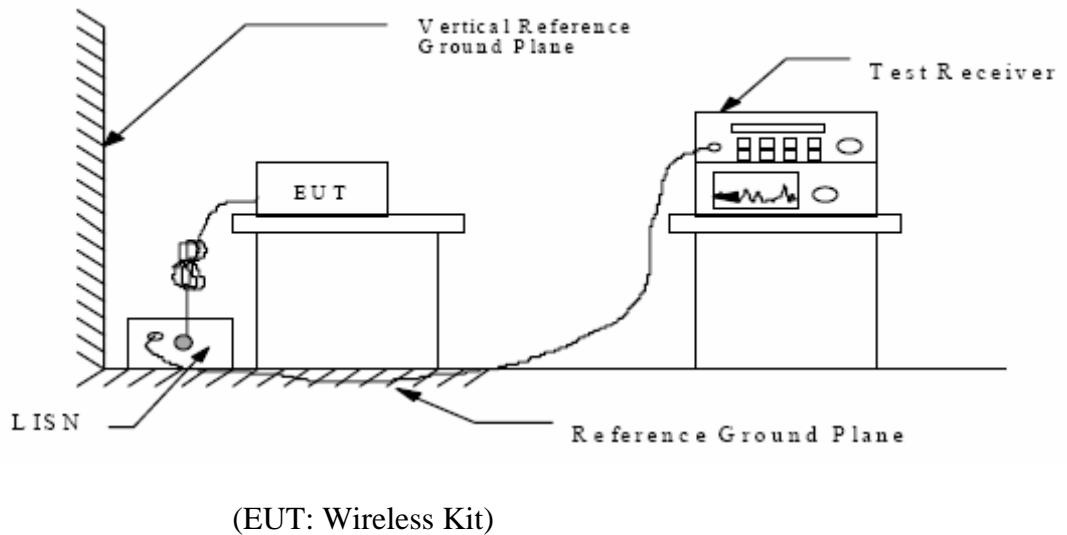
7. AC POWER LINE CONDUCTED EMISSION FOR FCC PART 15 SECTION 15.207(A)

7.1. Block Diagram of Test Setup

7.1.1. Block diagram of connection between the EUT and simulators



7.1.2. Shielding Room Test Setup Diagram



7.2. The Emission Limit

7.2.1. Conducted Emission Measurement Limits According to Section 15.207(a)

Frequency (MHz)	Limit dB(μ V)	
	Quasi-peak Level	Average Level
0.15 - 0.50	66.0 - 56.0 *	56.0 - 46.0 *
0.50 - 5.00	56.0	46.0
5.00 - 30.00	60.0	50.0

* Decreases with the logarithm of the frequency.

7.3. Configuration of EUT on Measurement

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

7.3.1. Wireless Kit (EUT)

Model Number : Wireless Kit
 Serial Number : N/A

7.4. Operating Condition of EUT

7.4.1. Setup the EUT and simulator as shown as Section 7.1.

7.4.2. Turn on the power of all equipment.

7.4.3. Let the EUT work in (Tx) mode measure it.

7.5. Test Procedure

The EUT is put on the plane 0.8m high above the ground by insulating support and is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC lines are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.4: 2009 on Conducted Emission Measurement.

The bandwidth of test receiver (R & S ESCS30) is set at 9kHz.

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

7.6. Power Line Conducted Emission Measurement Results

PASS.

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

Date of Test:	September 15, 2012	Temperature:	25°C
EUT:	Wireless Kit	Humidity:	50%
Model No.:	Wireless Kit	Power Supply:	AC 120V/60Hz
Test Mode:	TX	Test Engineer:	Pei

Frequency (MHz)	Result (dB μ V)	Limit (dB μ V)	Margin (dB)	Detector	Line
0.159893	39.80	66	-25.7	QP	Live
0.189080	40.90	64	-23.2	QP	
2.017150	34.80	56	-21.2	QP	
0.264410	20.00	51	-31.3	AV	
0.272991	38.80	51	-12.2	AV	
0.304059	23.20	50	-26.9	AV	
0.764621	40.20	56	-15.8	QP	Neutral
2.167430	39.10	56	-16.9	QP	
15.084453	43.50	60	-16.5	QP	
0.789434	31.50	46	-15.4	AV	
0.879278	30.30	46	-15.7	AV	
15.024355	36.70	50	-13.3	AV	

Emissions attenuated more than 20 dB below the permissible value are not reported.
The spectral diagrams are attached as below.

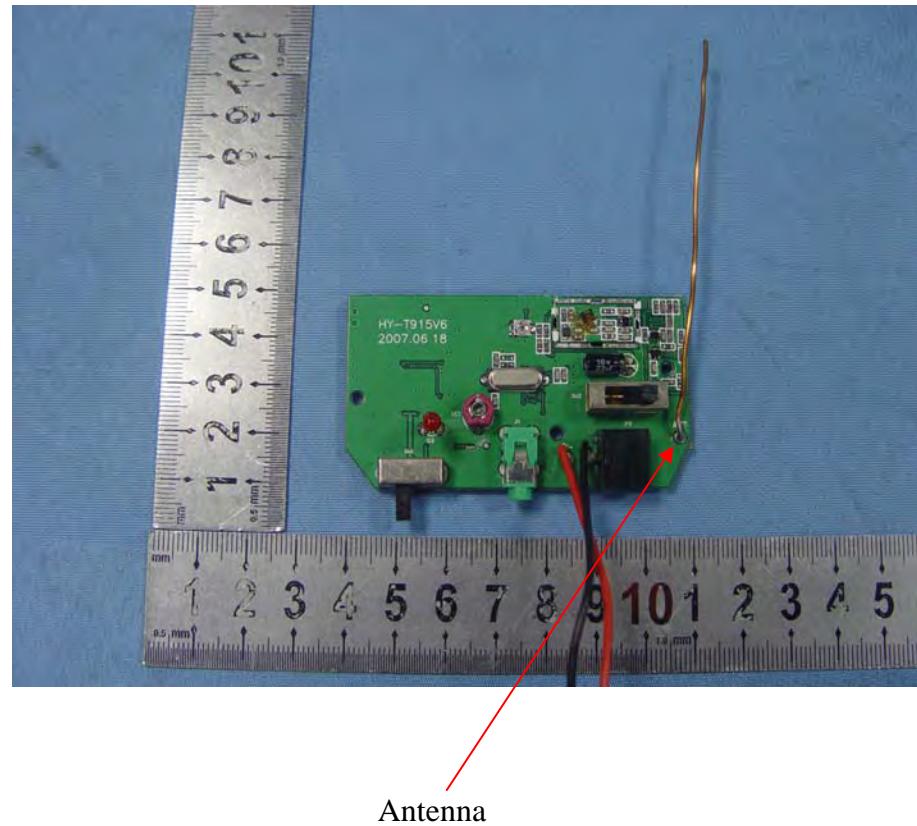
8. ANTENNA REQUIREMENT

8.1.The Requirement

8.1.1.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.

8.2.Antenna Construction

Device is equipped with unique antenna, which isn't displaced by other antenna. Refer to the product photo.



APPENDIX I

(Test Curves)

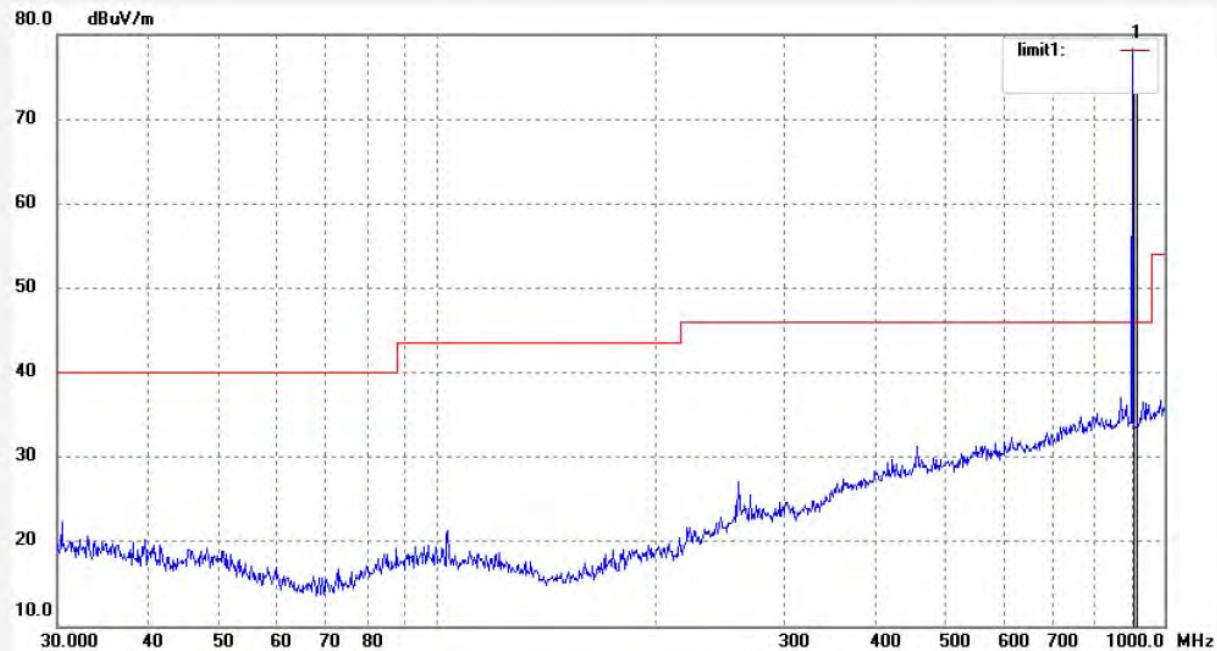

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 Site: 966 chamber
 Tel:+86-0755-26503290
 Fax:+86-0755-26503396

Job No.:	Bob #3415	Polarization:	Horizontal
Standard:	FCC Class B 3M Radiated	Power Source:	DC 6V
Test item:	Radiation Test	Date:	2012/09/15
Temp.(C)/Hum.(%)	23 C / 49 %	Time:	18:06:26
EUT:	Wireless Kit	Engineer Signature:	MASON
Mode:	TX914MHz	Distance:	3m
Model:	Wireless Kit		
Manufacturer:	SINOSOURCE		

Note: Report NO.:ATE20122171



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	914.0000	49.48	28.90	78.38	94.00	15.62	QP			


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Job No.: Bob #3416

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: DC 6V

Test item: Radiation Test

Date: 2012/09/15

Temp.(C)/Hum.(%) 23 C / 49 %

Time: 18:08:45

EUT: Wireless Kit

Engineer Signature: MASON

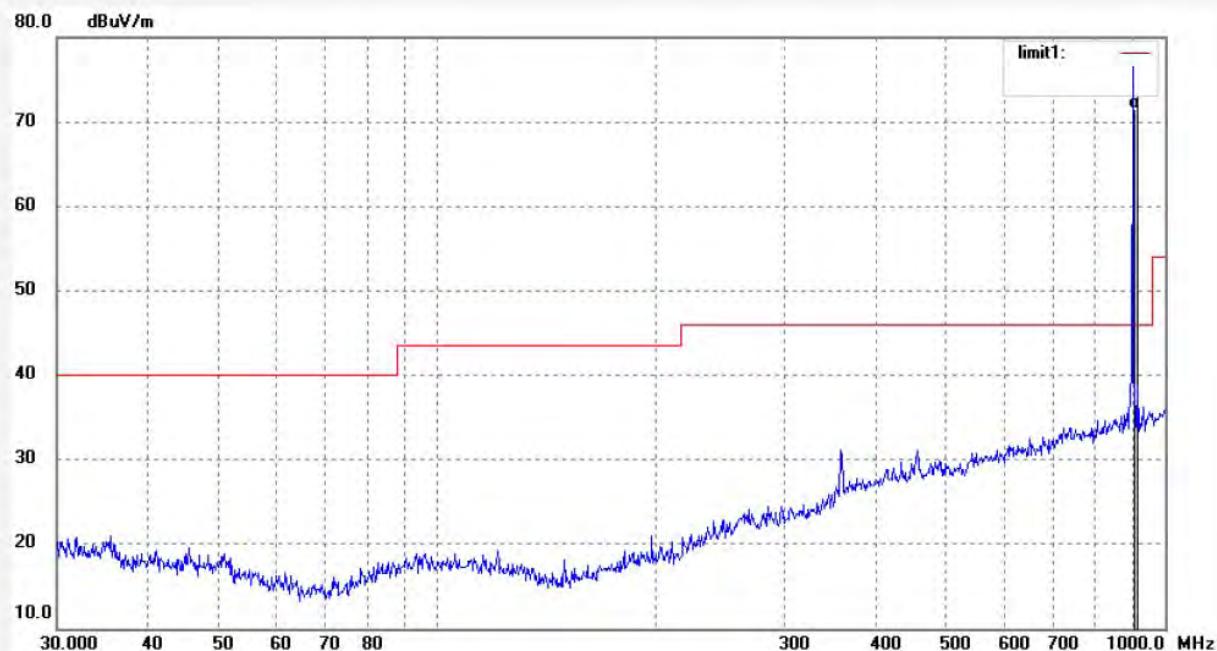
Mode: TX914MHz

Distance: 3m

Model: Wireless Kit

Manufacturer: SINOSOURCE

Note: Report NO.:ATE20122171



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	914.0000	47.69	28.90	76.59	94.00	17.41	QP			


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Job No.: Bob #3439

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: DC 6V

Test item: Radiation Test

Date: 2012/09/15

Temp.(C)/Hum.(%) 23 C / 49 %

Time: 18:38:19

EUT: Wireless Kit

Engineer Signature: Bob

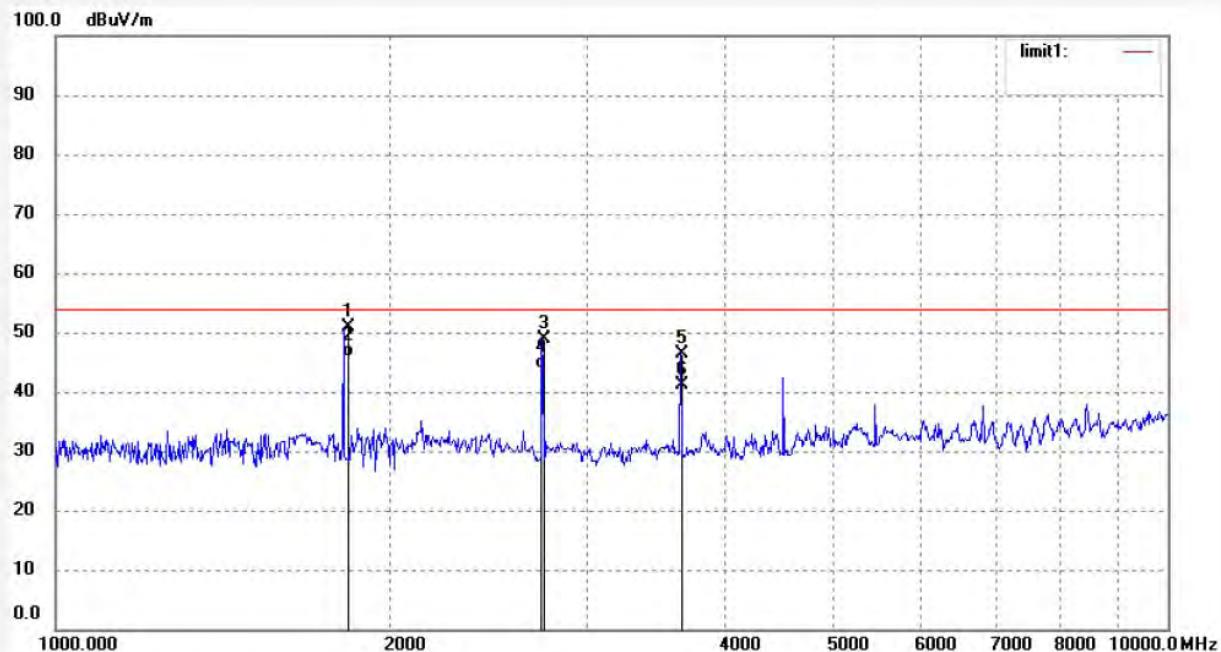
Mode: TX914MHz

Distance: 3m

Model: Wireless Kit

Manufacturer: SINOSOURCE

Note: Report NO.:ATE20122171



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	1828.000	60.54	-9.75	50.79	74.00	-23.21	peak			
2	1828.000	55.51	-9.75	45.76	54.00	-8.24	AVG			
3	2742.000	55.06	-6.14	48.92	74.00	-25.08	peak			
4	2742.000	50.02	-6.14	43.88	54.00	-10.12	AVG			
5	3656.000	48.88	-2.57	46.31	74.00	-27.69	peak			
6	3656.000	43.67	-2.57	41.10	54.00	-12.90	AVG			

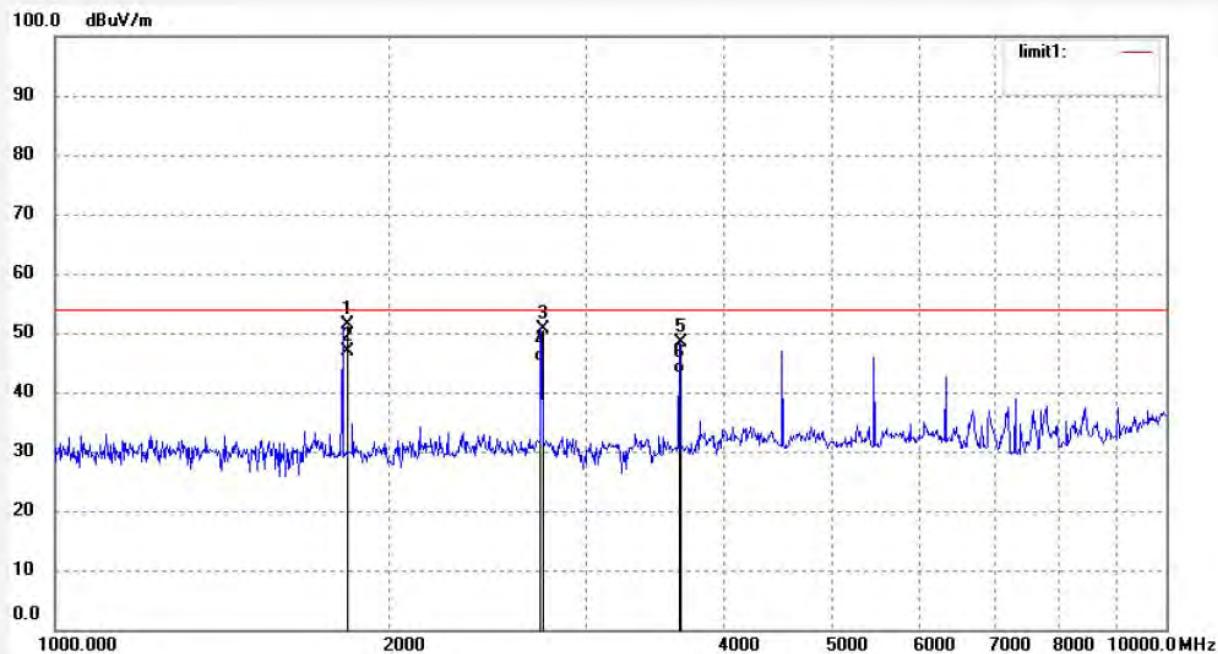

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Job No.:	Bob #3438	Polarization:	Vertical
Standard:	FCC Class B 3M Radiated	Power Source:	DC 6V
Test item:	Radiation Test	Date:	2012/09/15
Temp. (C)/Hum.(%)	23 C / 49 %	Time:	18:36:49
EUT:	Wireless Kit	Engineer Signature:	Bob
Mode:	TX914MHz	Distance:	3m
Model:	Wireless Kit		
Manufacturer:	SINOSOURCE		

Note: Report NO.:ATE20122171



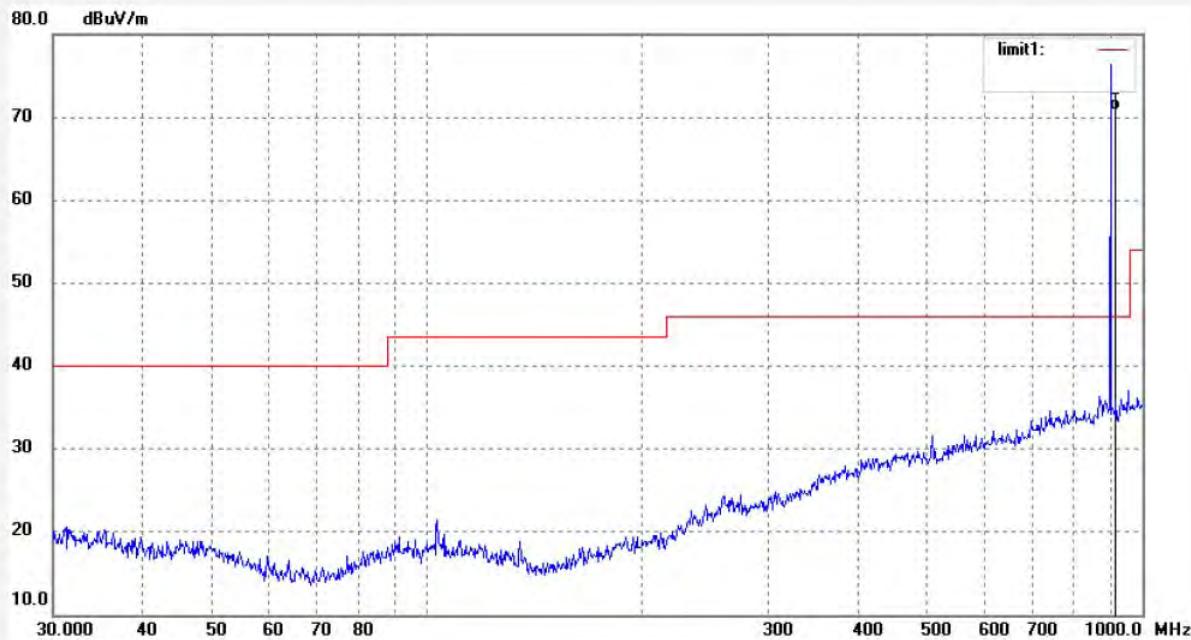
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	1828.000	61.06	-9.75	51.31	74.00	-22.69	peak			
2	1828.000	56.64	-9.75	46.89	54.00	-7.11	AVG			
3	2742.000	56.70	-6.14	50.56	74.00	-23.44	peak			
4	2742.000	51.34	-6.14	45.20	54.00	-8.80	AVG			
5	3656.000	50.96	-2.57	48.39	74.00	-25.61	peak			
6	3656.000	45.67	-2.57	43.10	54.00	-10.90	AVG			


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Job No.:	Bob #3418	Polarization:	Horizontal
Standard:	FCC Class B 3M Radiated	Power Source:	DC 6V
Test item:	Radiation Test	Date:	2012/09/15
Temp.(C)/Hum.(%)	23 C / 49 %	Time:	18:12:20
EUT:	Wireless Kit	Engineer Signature:	MASON
Mode:	TX914.5MHz	Distance:	3m
Model:	Wireless Kit		
Manufacturer:	SINOSOURCE		
Note:	Report NO.:ATE20122171		



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	914.5000	47.55	28.90	76.45	94.00	17.55	QP			


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Job No.: Bob #3417

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: DC 6V

Test item: Radiation Test

Date: 2012/09/15

Temp.(C)/Hum.(%) 23 C / 49 %

Time: 18:10:19

EUT: Wireless Kit

Engineer Signature: MASON

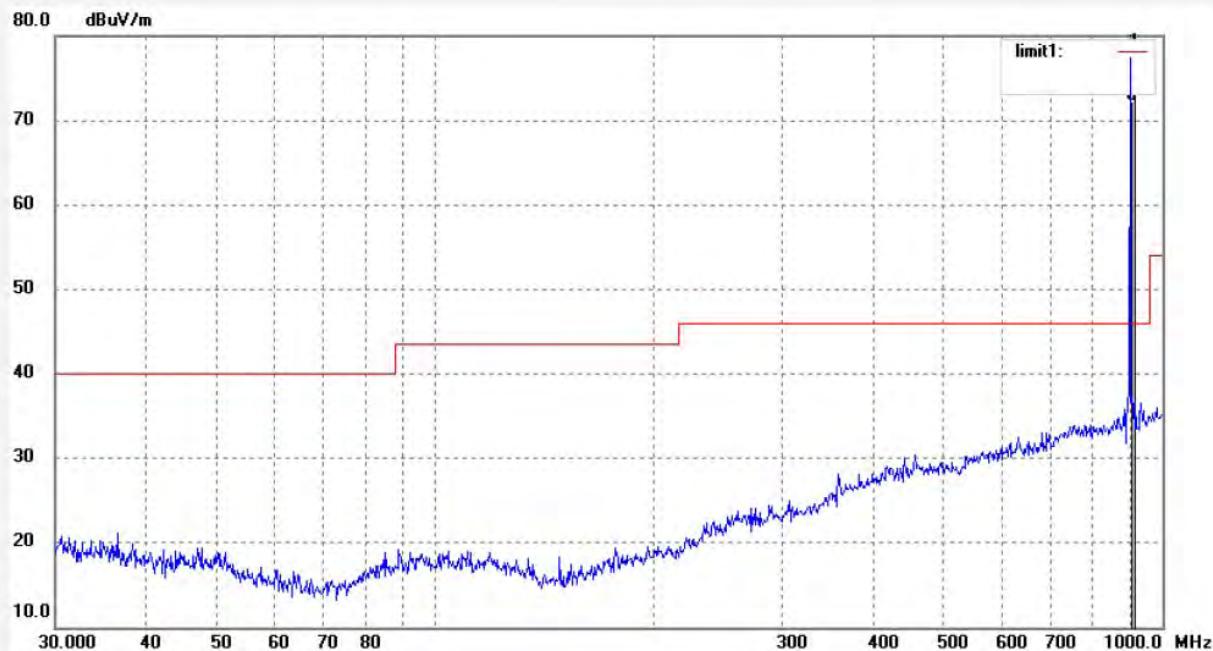
Mode: TX914.5MHz

Distance: 3m

Model: Wireless Kit

Manufacturer: SINOSOURCE

Note: Report NO.:ATE20122171



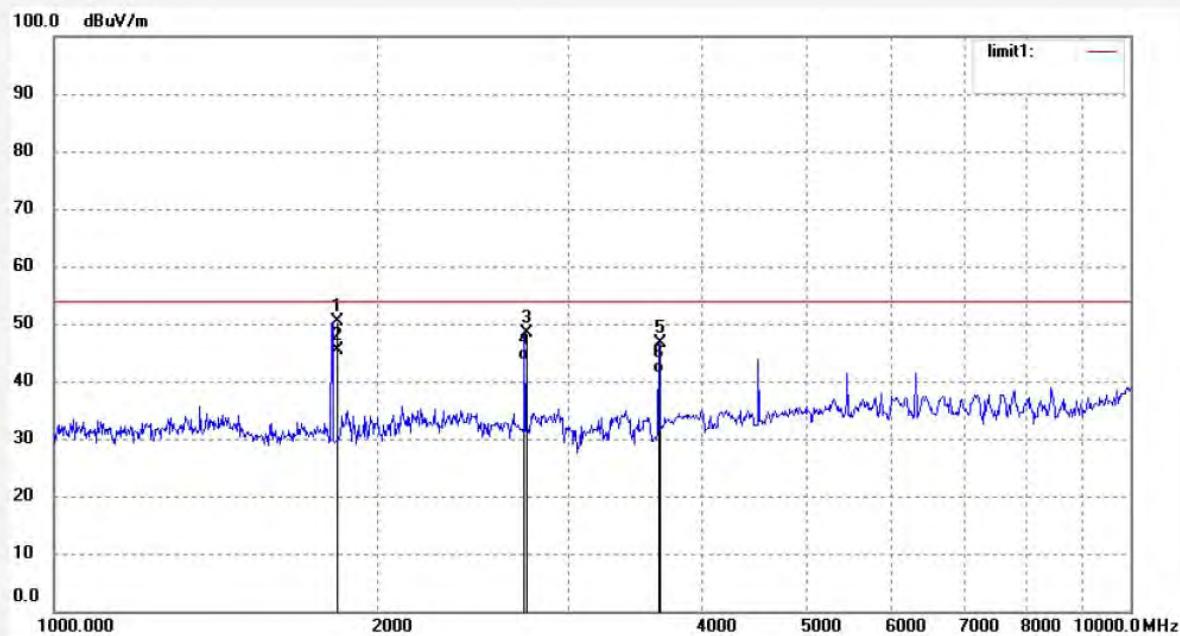
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	914.5000	48.59	28.90	77.49	94.00	16.51	QP			


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 Fax:+86-0755-26503396

Job No.:	Bob #3440	Polarization:	Horizontal
Standard:	FCC Class B 3M Radiated	Power Source:	DC 6V
Test item:	Radiation Test	Date:	2012/09/15
Temp.(C)/Hum.(%)	23 C / 49 %	Time:	18:40:03
EUT:	Wireless Kit	Engineer Signature:	Bob
Mode:	TX914.5MHz	Distance:	3m
Model:	Wireless Kit		
Manufacturer:	SINOSOURCE		
Note:	Report NO.:ATE20122171		



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	1829.000	60.02	-9.74	50.28	74.00	-23.72	peak			
2	1829.000	55.17	-9.74	45.43	54.00	-8.57	AVG			
3	2743.500	54.47	-6.13	48.34	74.00	-25.66	peak			
4	2743.500	49.65	-6.13	43.52	54.00	-10.48	AVG			
5	3656.000	49.10	-2.57	46.53	74.00	-27.47	peak			
6	3658.000	44.02	-2.56	41.46	54.00	-12.54	AVG			


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Job No.: Bob #3443

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: DC 6V

Test item: Radiation Test

Date: 2012/09/15

Temp.(C)/Hum.(%) 23 C / 49 %

Time: 18:43:24

EUT: Wireless Kit

Engineer Signature: Bob

Mode: TX914.5MHz

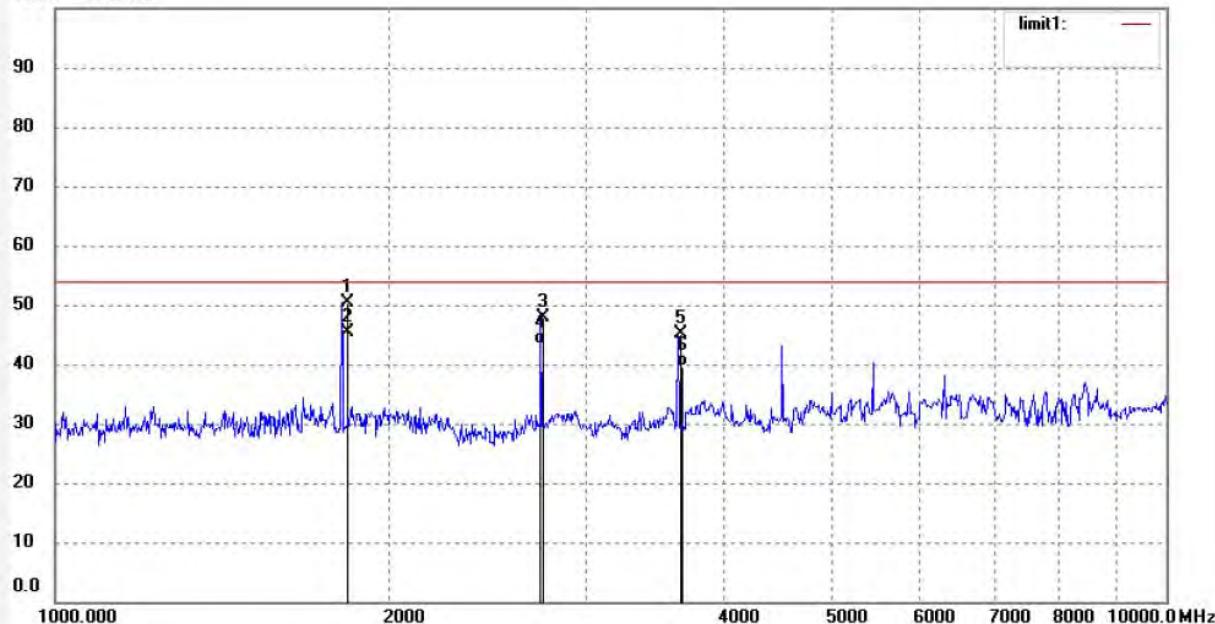
Distance: 3m

Model: Wireless Kit

Manufacturer: SINOSOURCE

Note: Report NO.:ATE20122171

100.0 dBuV/m



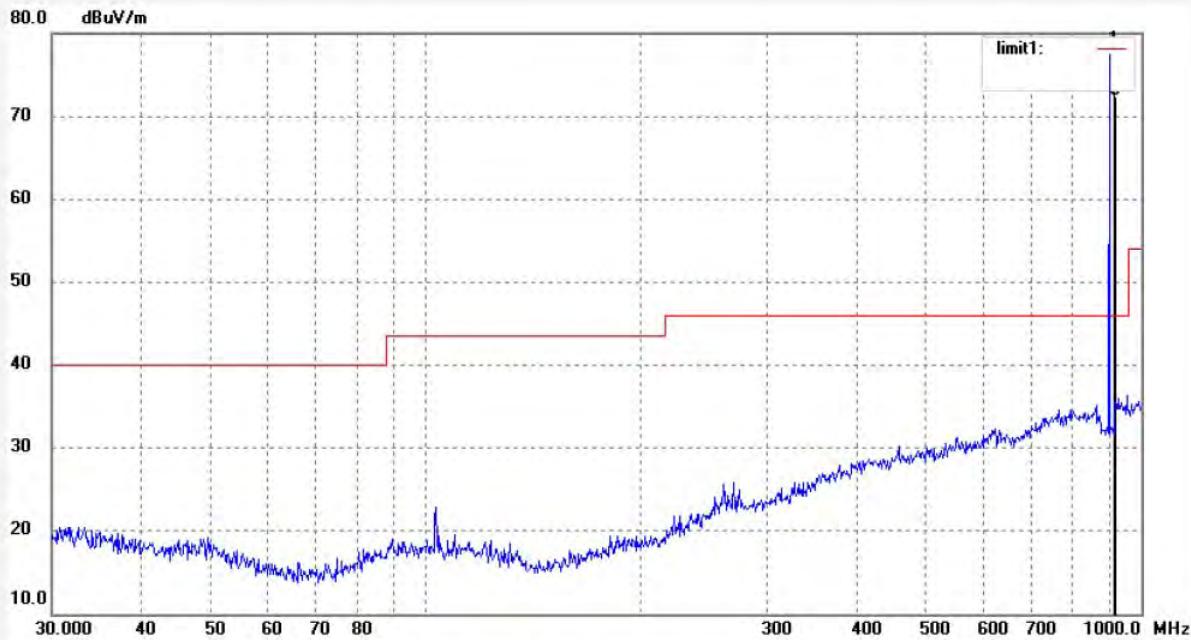
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	1829.000	60.05	-9.74	50.31	74.00	-23.69	peak			
2	1829.000	55.01	-9.74	45.27	54.00	-8.73	AVG			
3	2745.500	54.13	-6.12	48.00	74.00	-26.00	peak			
4	2745.500	49.57	-6.12	43.45	54.00	-10.55	AVG			
5	3658.000	47.64	-2.56	45.08	74.00	-28.92	peak			
6	3658.000	42.22	-2.56	39.66	54.00	-14.34	AVG			


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Job No.:	Bob #3420	Polarization:	Horizontal
Standard:	FCC Class B 3M Radiated	Power Source:	DC 6V
Test item:	Radiation Test	Date:	2012/09/15
Temp. (C)/Hum.(%)	23 C / 49 %	Time:	18:17:32
EUT:	Wireless Kit	Engineer Signature:	MASON
Mode:	TX915MHz	Distance:	3m
Model:	Wireless Kit		
Manufacturer:	SINOSOURCE		
Note:	Report NO.:ATE20122171		



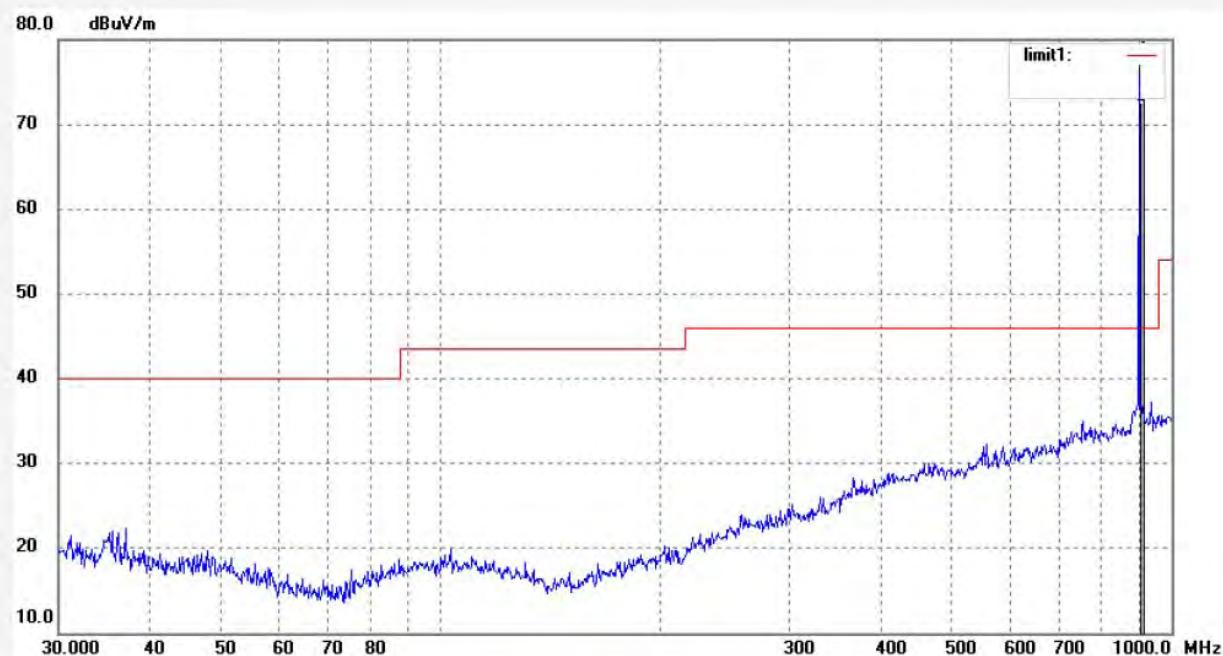
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	915.0000	48.56	28.92	77.48	94.00	16.52	QP			


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 Fax:+86-0755-26503396

Job No.:	Bob #3419	Polarization:	Vertical
Standard:	FCC Class B 3M Radiated	Power Source:	DC 6V
Test item:	Radiation Test	Date:	2012/09/15
Temp.(C)/Hum.(%)	23 C / 49 %	Time:	18:15:37
EUT:	Wireless Kit	Engineer Signature:	MASON
Mode:	TX915MHz	Distance:	3m
Model:	Wireless Kit		
Manufacturer:	SINOSOURCE		
Note:	Report NO.:ATE20122171		



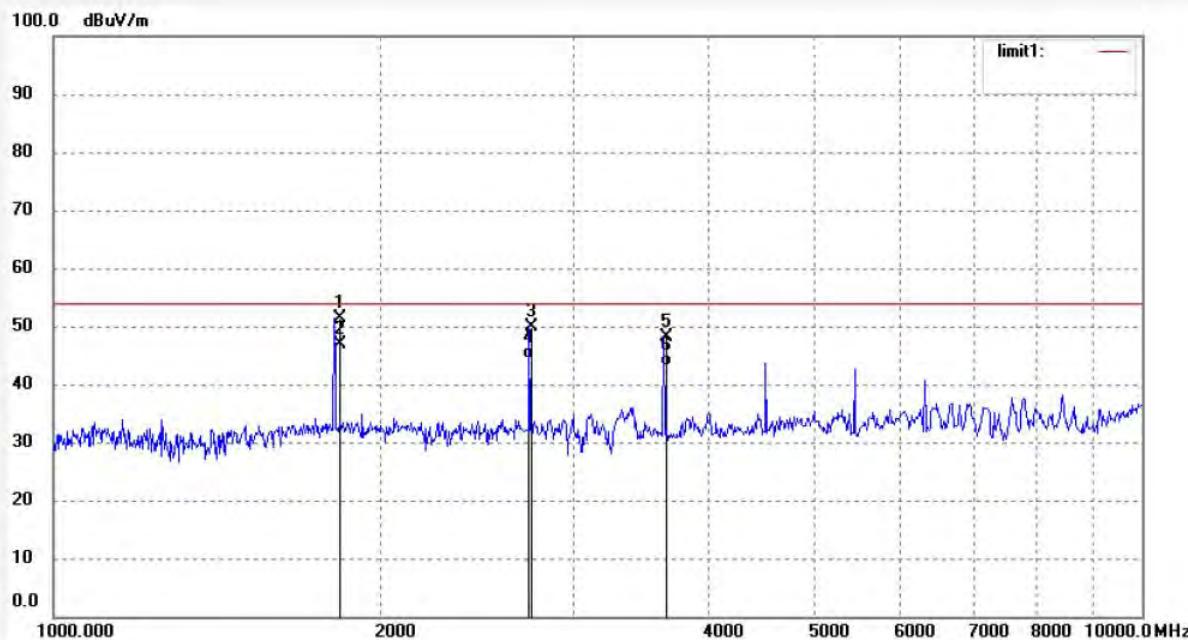
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	915.0000	48.07	28.92	76.99	94.00	17.01	QP			


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Job No.:	Bob #3441	Polarization:	Horizontal
Standard:	FCC Class B 3M Radiated	Power Source:	DC 6V
Test item:	Radiation Test	Date:	2012/09/15
Temp.(C)/Hum.(%)	23 C / 49 %	Time:	18:46:28
EUT:	Wireless Kit	Engineer Signature:	Bob
Mode:	TX915MHz	Distance:	3m
Model:	Wireless Kit		
Manufacturer:	SINOSOURCE		
Note:	Report NO.:ATE20122171		



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	1830.000	61.02	-9.73	51.29	74.00	-22.71	peak			
2	1830.000	56.69	-9.73	46.96	54.00	-7.04	AVG			
3	2745.000	55.91	-6.12	49.79	74.00	-24.21	peak			
4	2745.000	50.48	-6.12	44.36	54.00	-9.64	AVG			
5	3660.000	50.65	-2.56	48.09	74.00	-25.91	peak			
6	3660.000	45.75	-2.56	43.19	54.00	-10.81	AVG			


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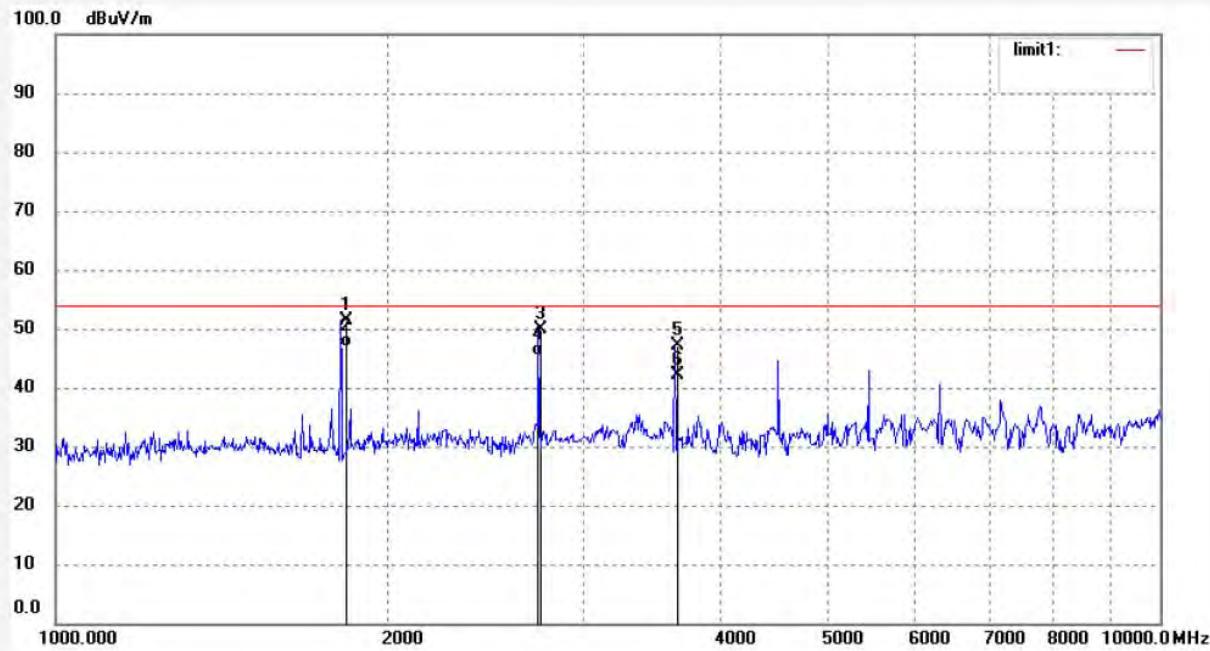
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Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.:	Bob #3442	Polarization:	Vertical
Standard:	FCC Class B 3M Radiated	Power Source:	DC 6V
Test item:	Radiation Test	Date:	2012/09/15
Temp. (C)/Hum.(%)	23 C / 49 %	Time:	18:49:04
EUT:	Wireless Kit	Engineer Signature:	Bob
Mode:	TX915MHz	Distance:	3m
Model:	Wireless Kit		
Manufacturer:	SINOSOURCE		
Note:	Report NO.:ATE20122171		



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	1830.000	61.04	-9.73	51.31	74.00	-22.69	peak			
2	1830.000	56.66	-9.73	46.93	54.00	-7.07	AVG			
3	2745.000	56.12	-6.12	50.00	74.00	-24.00	peak			
4	2745.000	51.47	-6.12	45.35	54.00	-8.65	AVG			
5	3660.000	49.64	-2.56	47.08	74.00	-26.92	peak			
6	3660.000	44.67	-2.56	42.11	54.00	-11.89	AVG			


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Job No.: Bob #3421

Polarization: Horizontal

Standard: FCC Band Edge(NEW)

Power Source: DC 6V

Test item: Radiation Test

Date: 2012/09/15

Temp.(C)/Hum.(%) 23 C / 49 %

Time: 18:24:31

EUT: Wireless Kit

Engineer Signature: Bob

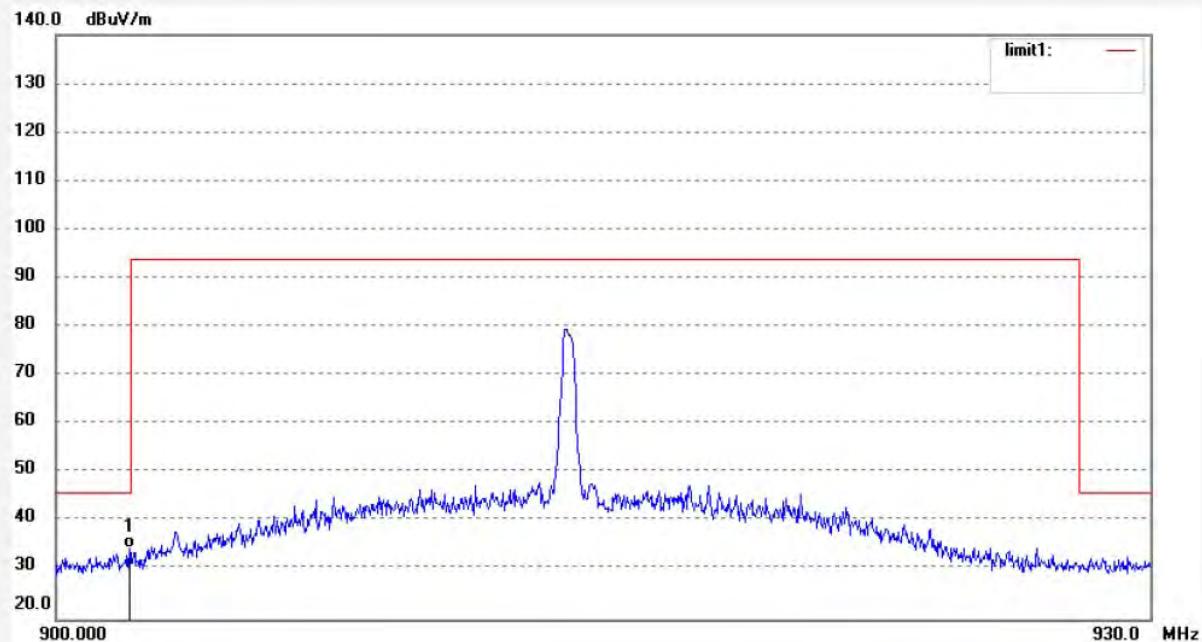
Mode: TX914MHz

Distance: 3m

Model: Wireless Kit

Manufacturer: SINOSOURCE

Note: Report NO.:ATE20122171



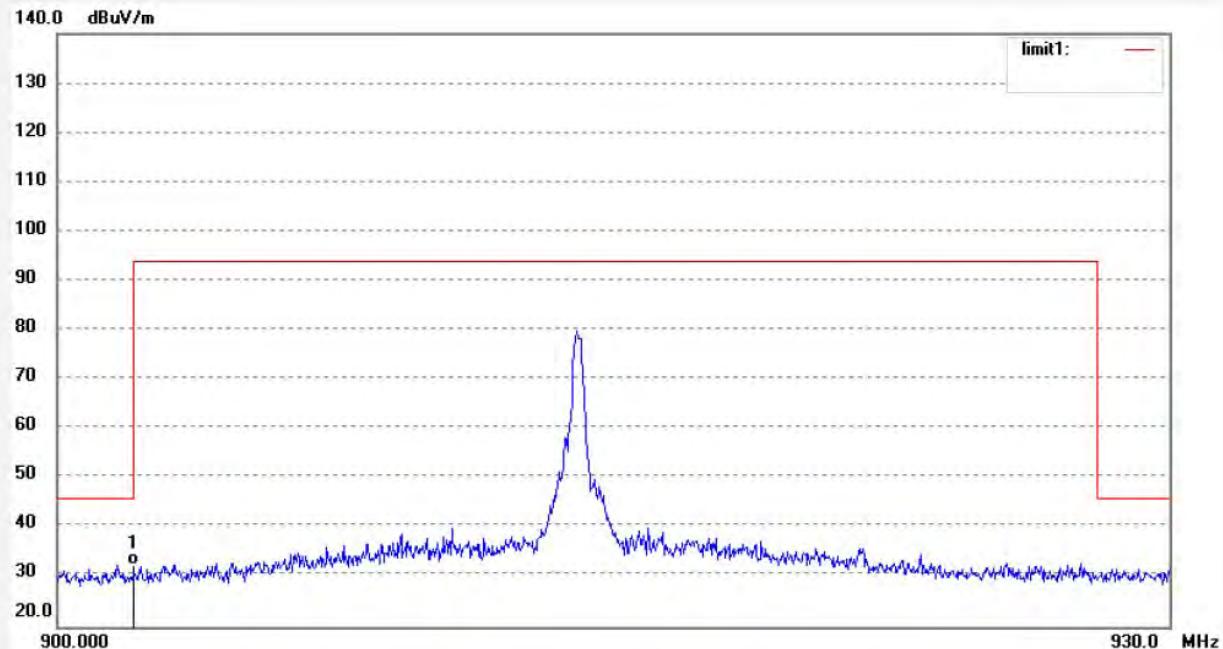
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	902.0000	5.69	28.78	34.47	46.00	-11.53	QP			


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 #3422	Polarization:	Vertical
Standard:	FCC Band Edge(NEW)	Power Source:	DC 6V
Test item:	Radiation Test	Date:	2012/09/15
Temp.(C)/Hum.(%)	23 C / 49 %	Time:	18:26:24
EUT:	Wireless Kit	Engineer Signature:	Bob
Mode:	TX914MHz	Distance:	3m
Model:	Wireless Kit		
Manufacturer:	SINOSOURCE		
Note:	Report NO.:ATE20122171		



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	902.0000	3.60	28.78	32.38	46.00	-13.62	QP			


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

Job No.: Bob #3425

Polarization: Horizontal

Standard: FCC Band Edge(NEW)

Power Source: DC 6V

Test item: Radiation Test

Date: 2012/09/15

Temp.(C)/Hum.(%) 23 C / 49 %

Time: 18:32:32

EUT: Wireless Kit

Engineer Signature: Bob

Mode: TX915MHz

Distance: 3m

Model: Wireless Kit

Manufacturer: SINOSOURCE

Note: Report NO.:ATE20122171

140.0 dBuV/m

130

120

110

100

90

80

70

60

50

40

30

20.0

900.000

930.0 MHz

limit1:

1
0

No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	928.0000	4.02	29.22	33.24	46.00	-12.76	QP			


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Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Bob #3426

Polarization: Vertical

Standard: FCC Band Edge(NEW)

Power Source: DC 6V

Test item: Radiation Test

Date: 2012/09/15

Temp.(C)/Hum.(%) 23 C / 49 %

Time: 18:34:03

EUT: Wireless Kit

Engineer Signature: Bob

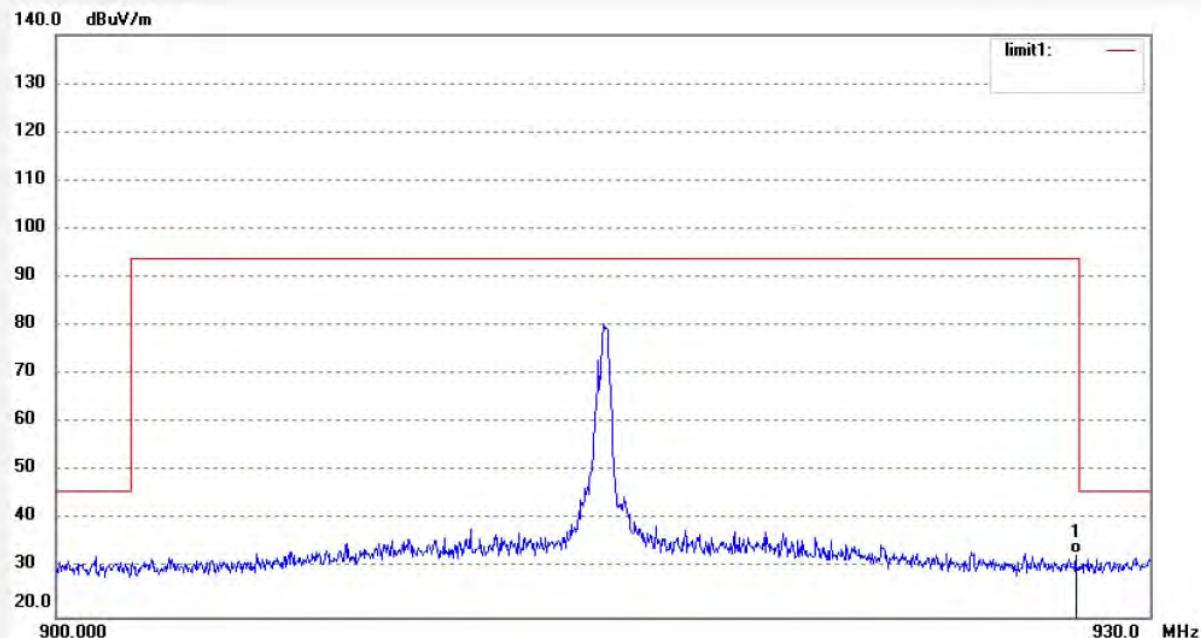
Mode: TX915MHz

Distance: 3m

Model: Wireless Kit

Manufacturer: SINOSOURCE

Note: Report NO.:ATE20122171



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	928.0000	3.71	29.22	32.93	46.00	-13.07	QP			

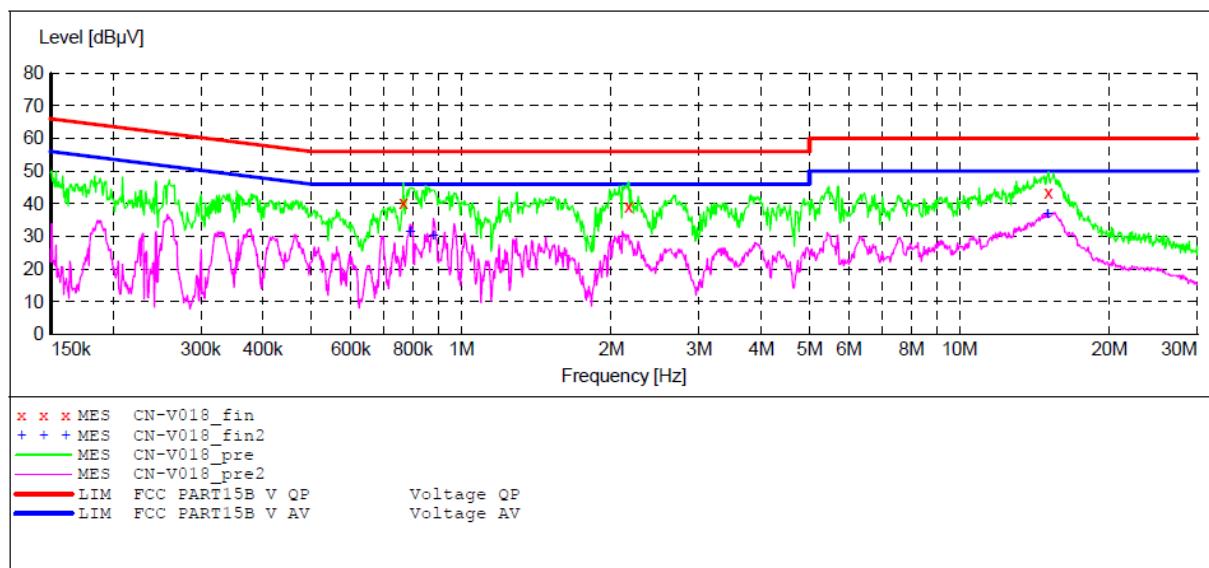
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART15B

EUT: Wireless Kit M/N:Wireless Kit
 Manufacturer: SINOSOURCE
 Operating Condition: TX
 Test Site: 1#Shielding Room
 Operator: Bob
 Test Specification: N 120V/60Hz
 Comment: Mains port
 Start of Test: 9/15/2012 / 8:44:32PM

SCAN TABLE: "V 150K-30MHz fin"

Short Description: _SUB_STD_VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 150.0 kHz 30.0 MHz 0.8 % QuasiPeak 1.0 s 9 kHz NSLK8126 2008
 Average



MEASUREMENT RESULT: "CN-V018_fin"

9/13/2012 8:46PM

Frequency MHz	Level dB μ V	Transd dB	Limit dB μ V	Margin dB	Detector	Line	PE
0.764621	40.20	11.9	56	15.8	QP	N	GND
2.167430	39.10	11.6	56	16.9	QP	N	GND
15.084453	43.50	11.2	60	16.5	QP	N	GND

MEASUREMENT RESULT: "CN-V018_fin2"

9/13/2012 8:46PM

Frequency MHz	Level dB μ V	Transd dB	Limit dB μ V	Margin dB	Detector	Line	PE
0.789434	31.50	11.9	46	14.5	AV	N	GND
0.879278	30.30	11.9	46	15.7	AV	N	GND
15.024355	36.70	11.2	50	13.3	AV	N	GND

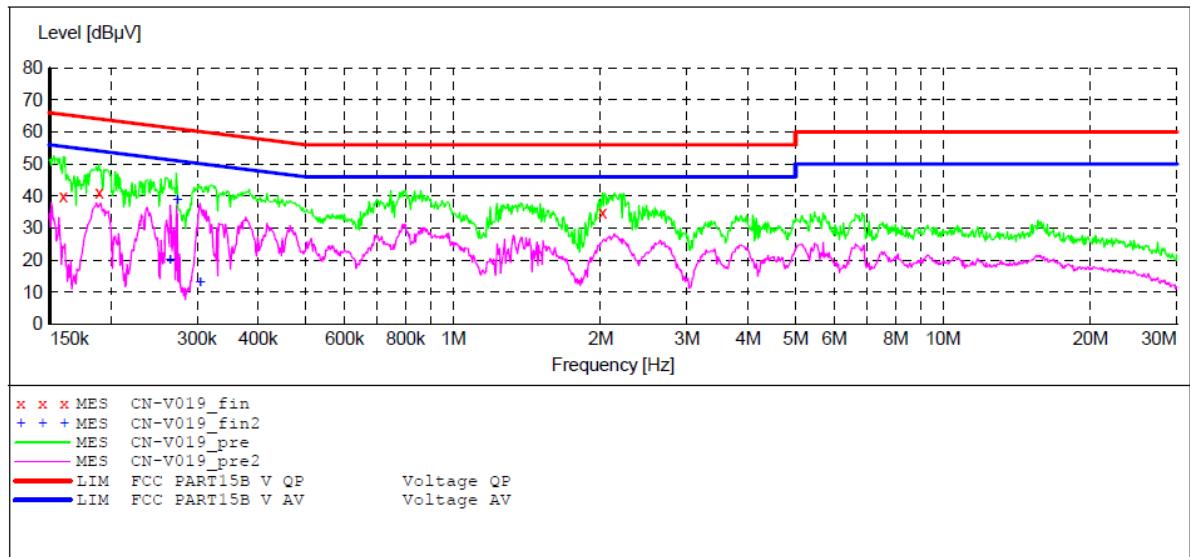
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART15B

EUT: Wireless Kit M/N:Wireless Kit
 Manufacturer: SINOSOURCE
 Operating Condition: TX
 Test Site: 1#Shielding Room
 Operator: Bob
 Test Specification: L 120V/60Hz
 Comment: Mains port
 Start of Test: 9/15/2012 / 8:47:20PM

SCAN TABLE: "V 150K-30MHz fin"

Short Description: _SUB_STD_VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw. 9 kHz NSLK8126 2008
 150.0 kHz 30.0 MHz 0.8 % QuasiPeak 1.0 s Average



MEASUREMENT RESULT: "CN-V019_fin"

9/13/2012 8:49PM

Frequency MHz	Level dB μ V	Transd dB	Limit dB μ V	Margin dB	Detector	Line	PE
0.159893	39.80	11.1	66	25.7	QP	L1	GND
0.189080	40.90	11.2	64	23.2	QP	L1	GND
2.017150	34.80	11.7	56	21.2	QP	L1	GND

MEASUREMENT RESULT: "CN-V019_fin2"

9/13/2012 8:49PM

Frequency MHz	Level dB μ V	Transd dB	Limit dB μ V	Margin dB	Detector	Line	PE
0.264410	20.00	11.5	51	31.3	AV	L1	GND
0.272991	38.80	11.5	51	12.2	AV	L1	GND
0.304059	23.20	11.6	50	26.9	AV	L1	GND