

APPLICATION CERTIFICATION FCC Part 15B
On Behalf of
Shenzhen Krisvision Digital Technology Group Inc.

KARAOKE PLAYER

Model No.: KB-816, BM-3000, BestSing, S-8160, SR-2500, MF-0608, SV-8161

FCC ID: 2AAI5-KB816

Prepared for : Shenzhen Krisvision Digital Technology Group Inc.
Address : 4th Floor and 6th Floor, 2nd Building The West, Shenhua
Technology Park, Meihua Rd., Shenzhen, Guangdong, China

Prepared by : ACCURATE TECHNOLOGY CO. LTD
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Report Number : ATE20131219
Date of Test : May 14-June 20, 2013
Date of Report : June 24, 2013

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Test Report Certification

Applicant : Shenzhen Krisvision Digital Technology Group Inc.

Manufacturer : Shenzhen Krisvision Digital Technology Group Inc.

EUT Description : KARAOKE PLAYER

(A) MODEL NO.: KB-816, BM-3000, BestSing, S-8160, SR-2500, MF-0608,
SV-8161

(B) SERIAL NO.: N/A

(C) POWER SUPPLY: AC 100-240V, 50/60Hz;

IR Remote Controller: DC 3V ("AAA" battery 2×)

Measurement Procedure Used:

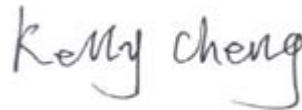
FCC Rules and Regulations Part 15 Subpart B ANSI C63.4: 2009

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 B 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 : May 14-June 20, 2013

Prepared by :



(Kelly Cheng, Engineer)

Approved & Authorized Signer :



(Sean Liu, Manager)

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

EUT	:	KARAOKE PLAYER
Model Number	:	KB-816, BM-3000, BestSing, S-8160, SR-2500, MF-0608, SV-8161 (Note: These samples are same except for the appearance color is difference. So we prepare the KB-816 for FCC test.)
Power Supply	:	AC 100-240V, 50/60Hz; IR Remote Controller: DC 3V (“AAA” battery 2×)
Highest operation frequency of the EUT	:	900MHz
Applicant Address	:	Shenzhen Krisvision Digital Technology Group Inc. 4th Floor and 6th Floor, 2nd Building The West, Shenhua Technology Park, Meihua Rd., Shenzhen, Guangdong, China
Manufacturer Address	:	Shenzhen Krisvision Digital Technology Group Inc. 4th Floor and 6th Floor, 2nd Building The West, Shenhua Technology Park, Meihua Rd., Shenzhen, Guangdong, China
Date of sample received	:	May 13, 2013
Date of Test	:	May 14-June 20, 2013

1.2. Accessory and Auxiliary Equipment

LCD COLOUR TV	:	Manufacturer: SHARP M/N: LCD-19A33-BK S/N: 709913440
TOUCHSCREEN	:	Manufacturer: LEJIA M/N: LJ19A
MOUSE	:	Manufacturer: SUN FLOWER M/N: SF-2019
USB Disk	:	Manufacturer: Kingston M/N: UD-240
IR RECEPTION	:	Manufacturer: Worldwide M/N: IRM338
MIC	:	Manufacturer: Takstar M/N: PC-K500

1.3. Description of Test Facility

EMC Lab : Accredited by TUV Rheinland Shenzhen

Listed by FCC

The Registration Number is 253065

Listed by FCC

The Registration Number is 752051

Listed by Industry Canada

The Registration Number is 5077A-1

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&D, Changyuan New Material Port, Keyuan Rd.
Science & Industry Park, Nanshan District, Shenzhen 518057,
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

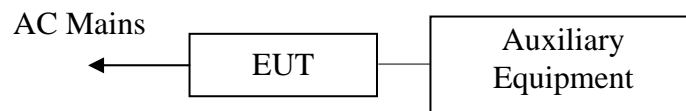
Kind of equipment	Manufacturer	Type	S/N	Calibrated date	Calibrated until
EMI Test Receiver	Rohde&Schwarz	ESCS30	100307	Jan. 12, 2013	Jan. 11, 2014
EMI Test Receiver	Rohde&Schwarz	ESPI3	101526/003	Jan. 12, 2013	Jan. 11, 2014
Spectrum Analyzer	Agilent	E7405A	MY45115511	Jan. 12, 2013	Jan. 11, 2014
Pre-Amplifier	Rohde&Schwarz	CBLU118354 0-01	3791	Jan. 12, 2013	Jan. 11, 2014
Loop Antenna	Schwarzbeck	FMZB1516	1516131	Feb. 06, 2013	Feb. 05, 2014
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	Feb. 06, 2013	Feb. 05, 2014
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	Feb. 06, 2013	Feb. 05, 2014
Horn Antenna	Schwarzbeck	BBHA9170	9170-359	Feb. 06, 2013	Feb. 05, 2014
LISN	Rohde&Schwarz	ESH3-Z5	100305	Jan. 12, 2013	Jan. 11, 2014
LISN	Schwarzbeck	NSLK8126	8126431	Jan. 12, 2013	Jan. 11, 2014

3. OPERATION OF EUT DURING TESTING

3.1.Operating Mode

The modes are used: 1) Playing
2) USB Playing
3) Network

3.2.Configuration and peripherals



(EUT: KARAOKE PLAYER)

4. TEST PROCEDURES AND RESULTS

FCC Rules	Description of Test	Result
Section 15.107	Conducted Emission Test	Compliant
Section 15.109	Radiated Emission Test	Compliant

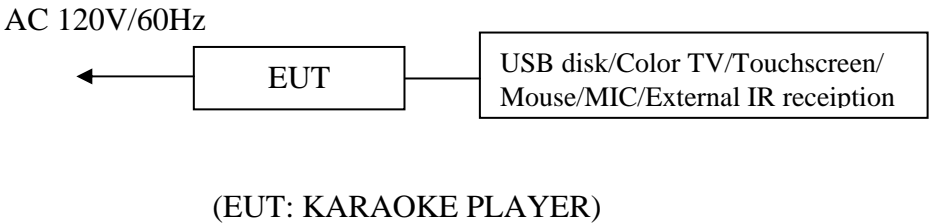
5. CONDUCTED EMISSION FOR FCC PART 15 SECTION

15.107(A)

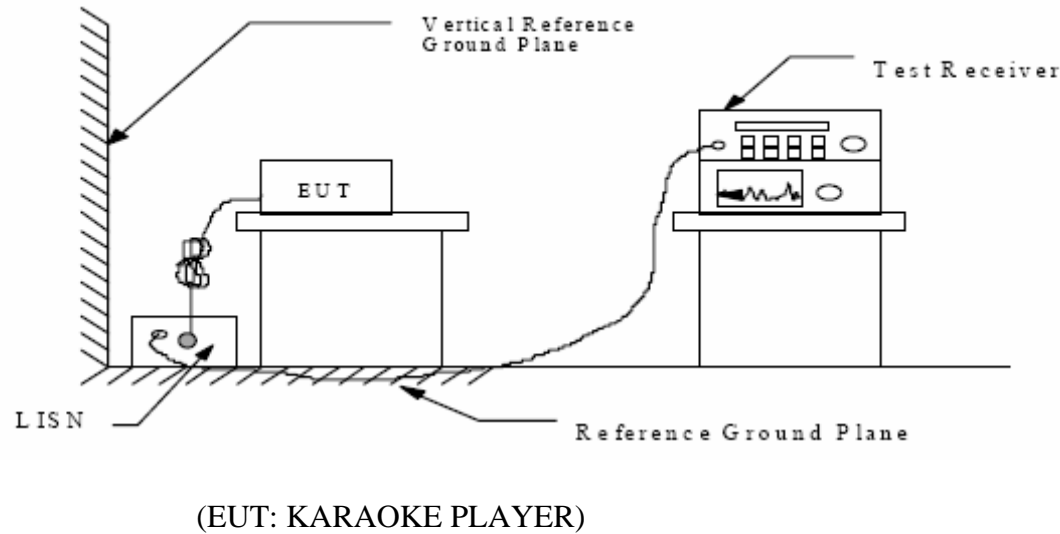
5.1. Block Diagram of Test Setup

5.1.1. Block diagram of connection between the EUT and simulators

5.1.1.1. For Playing & USB Playing & Network



5.1.2. Shielding Room Test Setup Diagram



5.2.The Emission Limit

5.2.1.Conducted Emission Measurement Limits According to Section 15.107(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.

5.3.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.

5.3.1.KARAOKE PLAYER (EUT)

Model Number : KB-816
 Serial Number : N/A
 Manufacturer : Shenzhen Krisvision Digital Technology Group Inc.

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 modes (Playing & USB Playing & Network) and measure it.

5.5.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.

5.6. Power Line Conducted Emission Measurement Results

PASS.

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

Date of Test:	<u>May 14, 2013</u>	Temperature:	<u>25°C</u>
EUT:	<u>KARAOKE PLAYER</u>	Humidity:	<u>50%</u>
Model No.:	<u>KB-816</u>	Power Supply:	<u>AC 120V/60Hz</u>
Test Mode:	<u>Playing</u>	Test Engineer:	<u>Alen</u>

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.601760	44.80	12.6	56	11.2	QP	N	GND
0.841502	44.20	12.5	56	11.8	QP	N	GND
2.492442	43.80	12.4	56	12.2	QP	N	GND
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.361001	42.10	12.3	49	6.6	AV	N	GND
0.540273	36.20	12.6	46	9.8	AV	N	GND
0.601760	37.30	12.6	46	8.7	AV	N	GND
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
1.269485	45.60	12.5	56	10.4	QP	L1	GND
2.492442	47.30	12.4	56	8.7	QP	L1	GND
6.419704	46.30	12.2	60	13.7	QP	L1	GND
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.361001	42.00	12.3	49	6.7	AV	L1	GND
0.599363	37.60	12.6	46	8.4	AV	L1	GND
26.378454	43.40	12.0	50	6.6	AV	L1	GND

Date of Test:	<u>May 14, 2013</u>	Temperature:	<u>25°C</u>
EUT:	<u>KARAOKE PLAYER</u>	Humidity:	<u>50%</u>
Model No.:	<u>KB-816</u>	Power Supply:	<u>AC 120V/60Hz</u>
Test Mode:	<u>USB Playing</u>	Test Engineer:	<u>Alen</u>

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.362445	38.40	12.3	59	20.3	QP	N	GND
0.604167	43.00	12.6	56	13.0	QP	N	GND
2.462770	48.10	12.4	56	7.9	QP	N	GND
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.433769	38.30	12.5	47	8.9	AV	N	GND
0.618813	37.50	12.6	46	8.5	AV	N	GND
27.125974	43.70	12.0	50	6.3	AV	N	GND
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.613892	44.80	12.6	56	11.2	QP	L1	GND
2.522471	47.50	12.4	56	8.5	QP	L1	GND
6.394128	44.40	12.2	60	15.6	QP	L1	GND
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.433769	38.50	12.5	47	8.7	AV	L1	GND
2.482512	35.00	12.4	46	11.0	AV	L1	GND
27.125974	44.20	12.0	50	5.8	AV	L1	GND

Date of Test:	<u>May 14, 2013</u>	Temperature:	<u>25°C</u>
EUT:	<u>KARAOKE PLAYER</u>	Humidity:	<u>50%</u>
Model No.:	<u>KB-816</u>	Power Supply:	<u>AC 120V/60Hz</u>
Test Mode:	<u>Network</u>	Test Engineer:	<u>Alen</u>

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.611446	45.90	12.6	56	10.1	QP	N	GND
0.855047	45.60	12.5	56	10.4	QP	N	GND
2.502412	48.30	12.4	56	7.7	QP	N	GND
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.428605	39.20	12.5	47	8.1	AV	N	GND
0.613892	38.90	12.6	46	7.1	AV	N	GND
27.125974	43.70	12.0	50	6.3	AV	N	GND
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.351053	44.40	12.3	59	14.5	QP	L1	GND
2.502412	49.10	12.4	56	6.9	QP	L1	GND
6.549129	46.20	12.2	60	13.8	QP	L1	GND
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.428605	39.80	12.5	47	7.5	AV	L1	GND
0.613892	38.90	12.6	46	7.1	AV	L1	GND
26.378454	43.20	12.0	50	6.8	AV	L1	GND

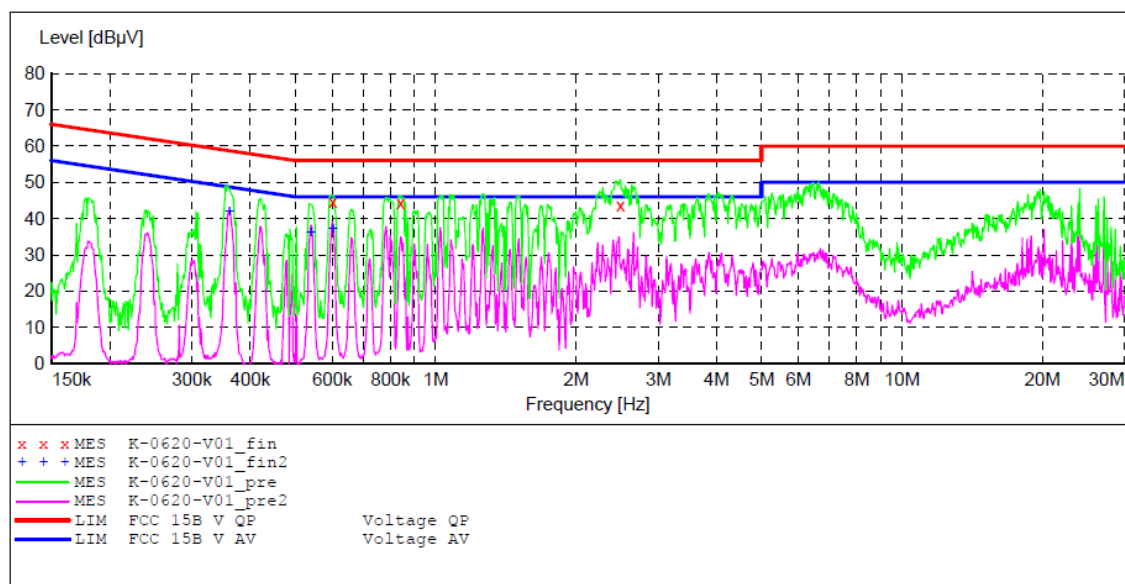
Emissions attenuated more than 20 dB below the permissible value are not reported.
The spectral diagrams are attached as below.

ACCURATE TECHNOLOGY CO., LTD**CONDUCTED EMISSION STANDARD FCC PART 15 B**

EUT: KARAOKE PLAYER M/N:KB-816
 Manufacturer: Krisvision
 Operating Condition: Playing
 Test Site: 1#Shielding Room
 Operator: Alen
 Test Specification: N 120V/60Hz
 Comment: Report No:ATE20131219
 Start of Test: 5/14/2013 / 10:18:53AM

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 4.5 kHz QuasiPeak 1.0 s 9 kHz NSLK8126 2008
 Average

**MEASUREMENT RESULT: "K-0620-V01_fin"**

5/14/2013 10:21AM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.601760	44.80	12.6	56	11.2	QP	N	GND
0.841502	44.20	12.5	56	11.8	QP	N	GND
2.492442	43.80	12.4	56	12.2	QP	N	GND

MEASUREMENT RESULT: "K-0620-V01_fin2"

5/14/2013 10:21AM

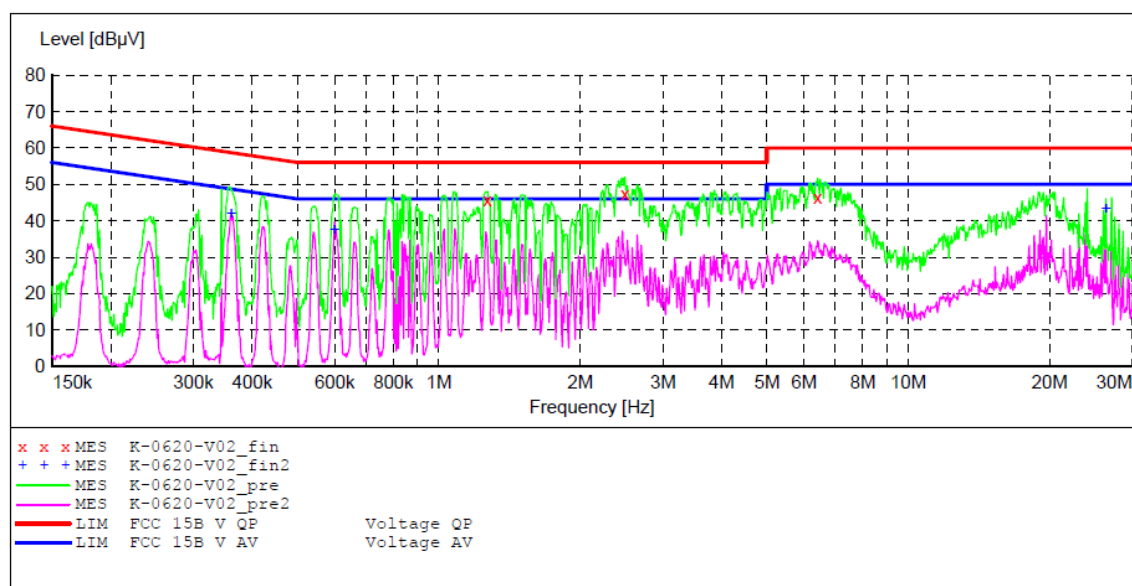
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.361001	42.10	12.3	49	6.6	AV	N	GND
0.540273	36.20	12.6	46	9.8	AV	N	GND
0.601760	37.30	12.6	46	8.7	AV	N	GND

ACCURATE TECHNOLOGY CO., LTD**CONDUCTED EMISSION STANDARD FCC PART 15 B**

EUT: KARAOKE PLAYER M/N:KB-816
 Manufacturer: Krisvision
 Operating Condition: Playing
 Test Site: 1#Shielding Room
 Operator: Alen
 Test Specification: L 120V/60Hz
 Comment: Report No:ATE20131219
 Start of Test: 5/14/2013 / 10:23:10AM

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 4.5 kHz QuasiPeak 1.0 s 9 kHz NSLK8126 2008
 Average

**MEASUREMENT RESULT: "K-0620-V02_fin"**

5/14/2013 10:25AM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
1.269485	45.60	12.5	56	10.4	QP	L1	GND
2.492442	47.30	12.4	56	8.7	QP	L1	GND
6.419704	46.30	12.2	60	13.7	QP	L1	GND

MEASUREMENT RESULT: "K-0620-V02_fin2"

5/14/2013 10:25AM

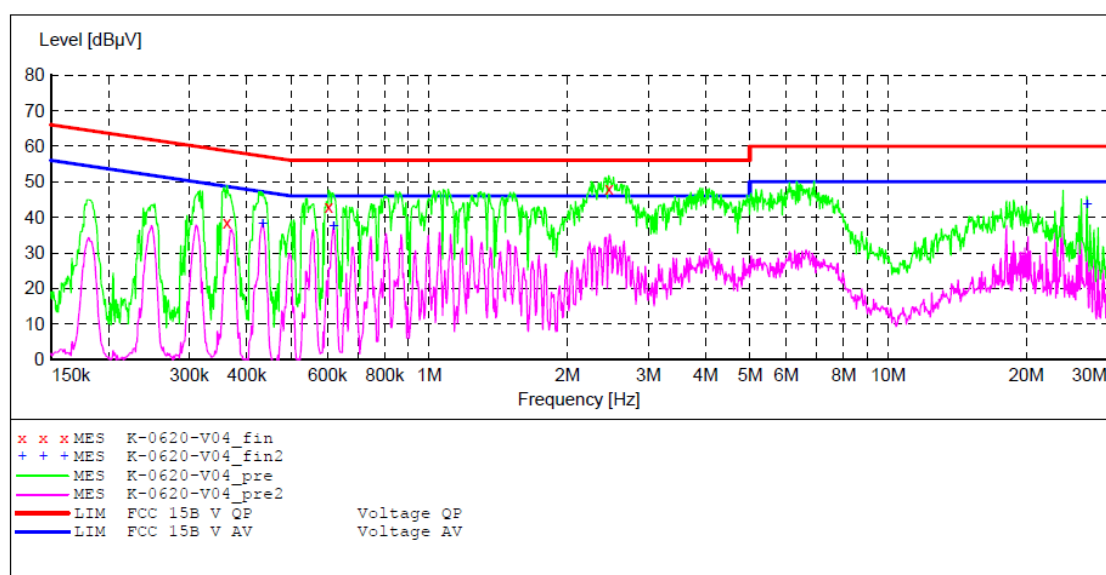
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.361001	42.00	12.3	49	6.7	AV	L1	GND
0.599363	37.60	12.6	46	8.4	AV	L1	GND
26.378454	43.40	12.0	50	6.6	AV	L1	GND

ACCURATE TECHNOLOGY CO.,LTD**CONDUCTED EMISSION STANDARD FCC PART 15 B**

EUT: KARAOKE PLAYER M/N:KB-816
 Manufacturer: Krisvision
 Operating Condition: USB Playing
 Test Site: 1#Shielding Room
 Operator: Alen
 Test Specification: N 120V/60Hz
 Comment: Report No:ATE20131219
 Start of Test: 5/14/2013 / 10:33:09AM

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 4.5 kHz QuasiPeak 1.0 s 9 kHz NSLK8126 2008
 Average

**MEASUREMENT RESULT: "K-0620-V04_fin"**

5/14/2013 10:35AM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.362445	38.40	12.3	59	20.3	QP	N	GND
0.604167	43.00	12.6	56	13.0	QP	N	GND
2.462770	48.10	12.4	56	7.9	QP	N	GND

MEASUREMENT RESULT: "K-0620-V04_fin2"

5/14/2013 10:35AM

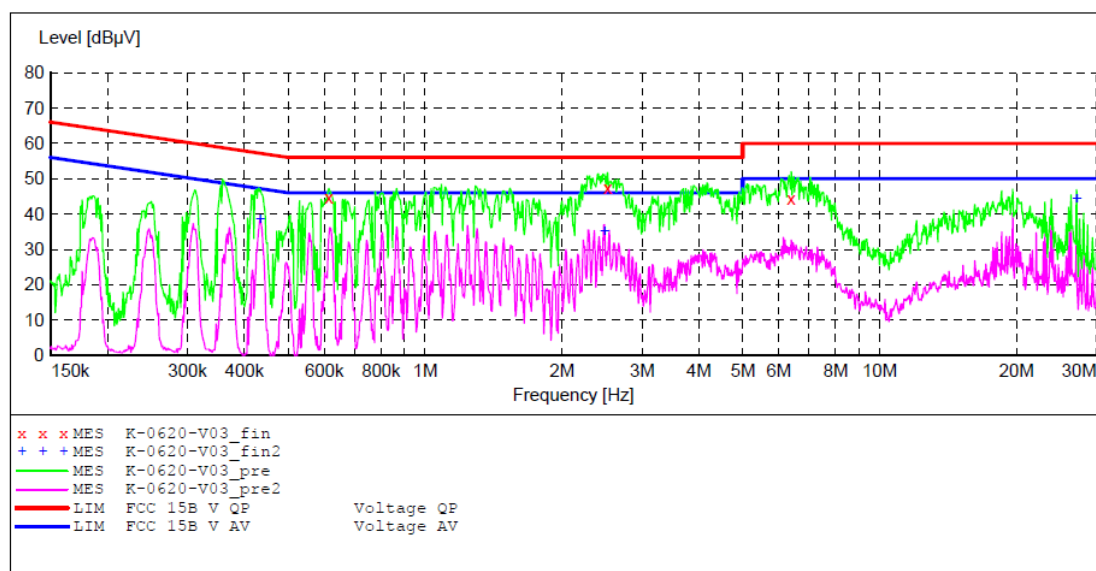
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.433769	38.30	12.5	47	8.9	AV	N	GND
0.618813	37.50	12.6	46	8.5	AV	N	GND
27.125974	43.70	12.0	50	6.3	AV	N	GND

ACCURATE TECHNOLOGY CO.,LTD**CONDUCTED EMISSION STANDARD FCC PART 15 B**

EUT: KARAOKE PLAYER M/N:KB-816
 Manufacturer: Krisvision
 Operating Condition: USB Playing
 Test Site: 1#Shielding Room
 Operator: Alen
 Test Specification: L 120V/60Hz
 Comment: Report No:ATE20131219
 Start of Test: 5/14/2013 / 10:30:26AM

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 4.5 kHz QuasiPeak 1.0 s 9 kHz NSLK8126 2008
 Average

**MEASUREMENT RESULT: "K-0620-V03_fin"**

5/14/2013 10:32AM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.613892	44.80	12.6	56	11.2	QP	L1	GND
2.522471	47.50	12.4	56	8.5	QP	L1	GND
6.394128	44.40	12.2	60	15.6	QP	L1	GND

MEASUREMENT RESULT: "K-0620-V03_fin2"

5/14/2013 10:32AM

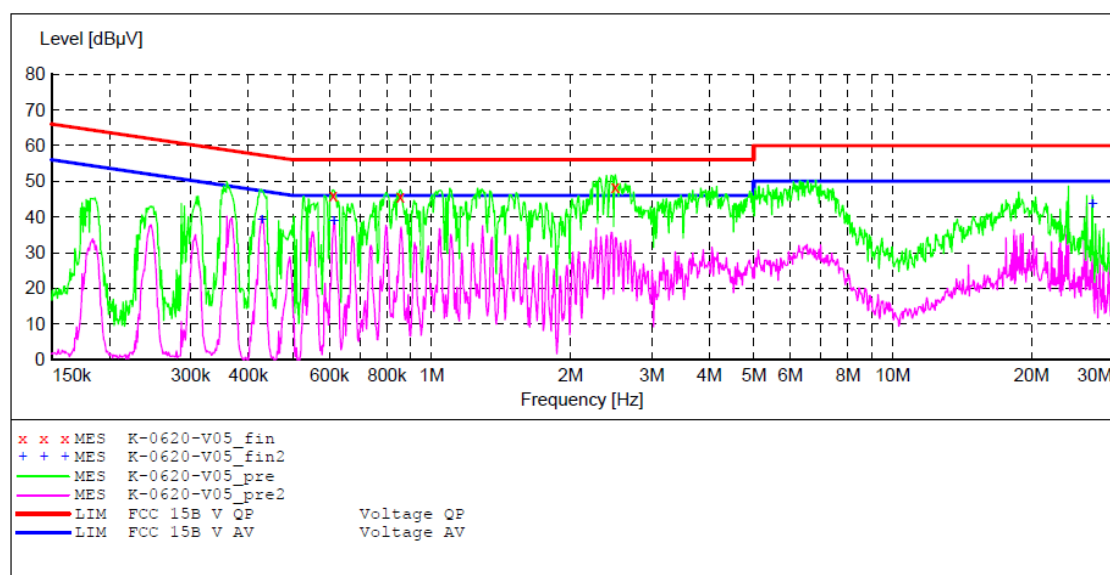
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.433769	38.50	12.5	47	8.7	AV	L1	GND
2.482512	35.00	12.4	46	11.0	AV	L1	GND
27.125974	44.20	12.0	50	5.8	AV	L1	GND

ACCURATE TECHNOLOGY CO.,LTD**CONDUCTED EMISSION STANDARD FCC PART 15 B**

EUT: KARAOKE PLAYER M/N:KB-816
 Manufacturer: Krisvision
 Operating Condition: Network
 Test Site: 1#Shielding Room
 Operator: Alen
 Test Specification: N 120V/60Hz
 Comment: Report No:ATE20131219
 Start of Test: 5/14/2013 / 10:36:29AM

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 4.5 kHz QuasiPeak 1.0 s 9 kHz NSLK8126 2008
 Average

**MEASUREMENT RESULT: "K-0620-V05_fin"**

5/14/2013 10:38AM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.611446	45.90	12.6	56	10.1	QP	N	GND
0.855047	45.60	12.5	56	10.4	QP	N	GND
2.502412	48.30	12.4	56	7.7	QP	N	GND

MEASUREMENT RESULT: "K-0620-V05_fin2"

5/14/2013 10:38AM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.428605	39.20	12.5	47	8.1	AV	N	GND
0.613892	38.90	12.6	46	7.1	AV	N	GND
27.125974	43.70	12.0	50	6.3	AV	N	GND

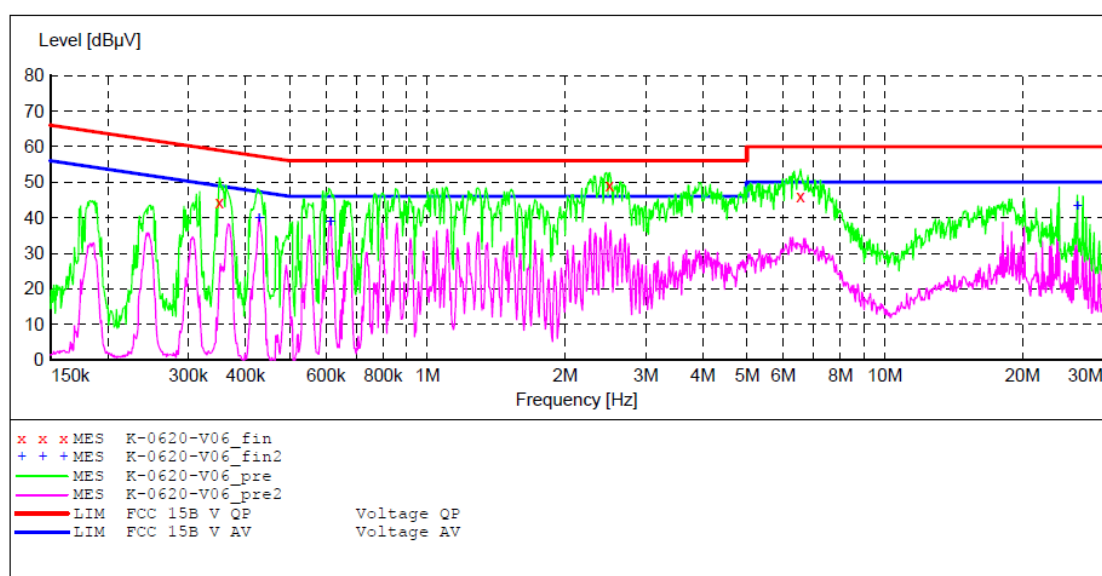
ACCURATE TECHNOLOGY CO.,LTD**CONDUCTED EMISSION STANDARD FCC PART 15 B**

EUT: KARAOKE PLAYER M/N:KB-816
 Manufacturer: Krisvision
 Operating Condition: Network
 Test Site: 1#Shielding Room
 Operator: Alen
 Test Specification: L 120V/60Hz
 Comment: Report No:ATE20131219
 Start of Test: 5/14/2013 / 10:39:12AM

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

Short Description: _SUB_STD_VTERM2 1.70

Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
Frequency	Frequency	Width				
150.0 kHz	30.0 MHz	4.5 kHz	QuasiPeak	1.0 s	9 kHz	NSLK8126 2008
			Average			

**MEASUREMENT RESULT: "K-0620-V06_fin"**

5/14/2013 10:41AM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.351053	44.40	12.3	59	14.5	QP	L1	GND
2.502412	49.10	12.4	56	6.9	QP	L1	GND
6.549129	46.20	12.2	60	13.8	QP	L1	GND

MEASUREMENT RESULT: "K-0620-V06_fin2"

5/14/2013 10:41AM

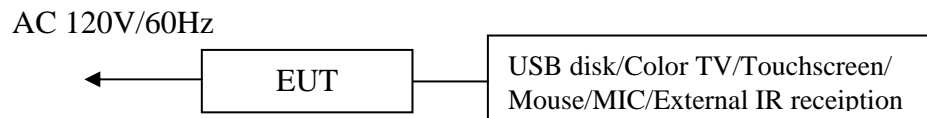
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.428605	39.80	12.5	47	7.5	AV	L1	GND
0.613892	38.90	12.6	46	7.1	AV	L1	GND
26.378454	43.20	12.0	50	6.8	AV	L1	GND

6. RADIATED EMISSION FOR FCC PART 15 SECTION 15.109(A)

6.1. Block Diagram of Test Setup

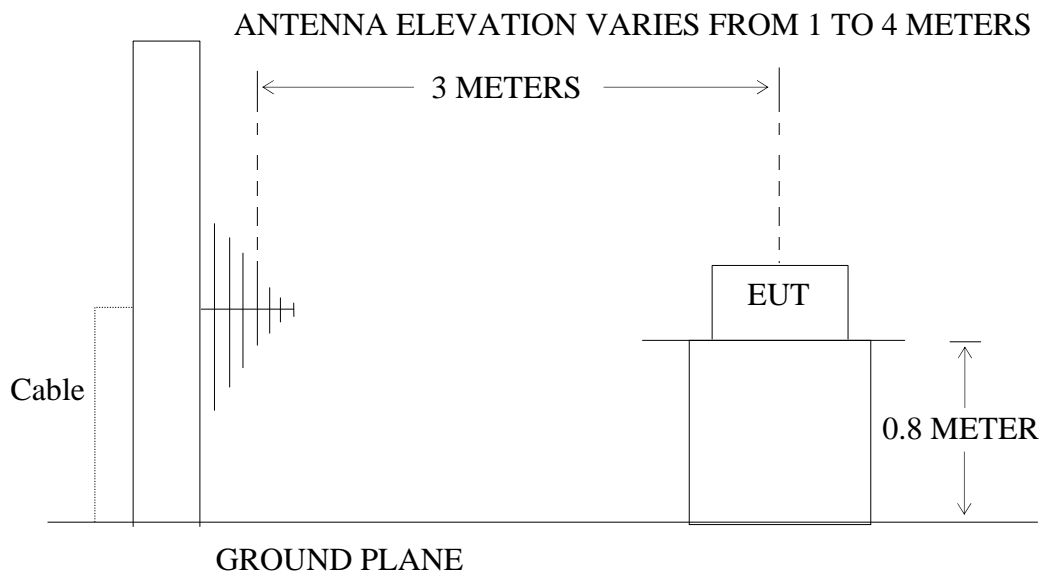
6.1.1. Block diagram of connection between the EUT and simulators

6.1.1.1. For Playing & USB Playing & Network



(EUT: KARAOKE PLAYER)

6.1.2. Semi-Anechoic Chamber Test Setup Diagram



(EUT: KARAOKE PLAYER)

6.2.The Emission Limit For Section 15.109 (a)

6.2.1.Radiation Emission Measurement Limits According to Section 15.109 (a).

Frequency (MHz)	Limit	
	Field Strength of Quasi-peak Value (microvolts/m)	Field Strength of Quasi-peak Value (dBμV/m)
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
Above 960	500	54

6.3.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.

6.3.1.KARAOKE PLAYER (EUT)

Model Number : KB-816
 Serial Number : N/A
 Manufacturer : Shenzhen Krisvision Digital Technology Group Inc.

6.4.Operating Condition of EUT

6.4.1.Setup the EUT and simulator as shown as Section 6.1.

6.4.2.Turn on the power of all equipment.

6.4.3. Let the EUT work in (Playing &USB Playing & Network) mode measures it.

6.5. 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 1MHz in above 1000MHz.

The frequency range from 30MHz to 5000MHz is checked.

6.6.The Emission Measurement Result

PASS.

Date of Test:	June 20, 2013	Temperature:	25°C
EUT:	KARAOKE PLAYER	Humidity:	50%
Model No.:	KB-816	Power Supply:	AC 120V/60Hz
Test Mode:	Playing	Test Engineer:	Alen

Frequency: 30-1000MHz								
Polarization								
Horizontal	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	148.4410	60.56	-23.77	36.79	43.50	-6.71	QP
	2	202.1005	59.68	-20.16	39.52	43.50	-3.98	QP
	3	742.2586	51.74	-8.79	42.95	46.50	-3.55	QP
Vertical	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	85.8984	56.45	-21.57	34.88	40.00	-5.12	QP
	2	202.1005	57.02	-20.16	36.86	43.50	-6.64	QP
	3	742.2587	48.28	-8.79	39.49	46.50	-7.01	QP
Frequency: 1000-5000MHz								
Polarization								
Horizontal	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	1483.364	60.87	-9.73	51.14	74.00	-22.86	peak
	2	1483.364	57.98	-9.73	48.25	54.00	-5.75	AVG
	3	1631.124	56.45	-9.20	47.25	74.00	-26.75	peak
	4	1631.124	53.87	-9.20	44.67	54.00	-9.33	AVG
	5	2225.298	57.72	-7.21	50.51	74.00	-23.49	peak
	6	2225.298	55.12	-7.21	47.91	54.00	-6.09	AVG
Vertical	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	1483.364	55.62	-9.73	45.89	74.00	-28.11	peak
	2	1483.364	53.12	-9.73	43.39	54.00	-10.61	AVG
	3	1631.124	53.09	-9.20	43.89	74.00	-30.11	peak
	4	1631.124	50.69	-9.20	41.49	54.00	-12.51	AVG
	5	2225.298	59.68	-7.21	52.47	74.00	-21.53	peak
	6	2225.298	57.23	-7.21	50.02	54.00	-3.98	AVG

Date of Test:	June 20, 2013	Temperature:	25°C
EUT:	KARAOKE PLAYER	Humidity:	50%
Model No.:	KB-816	Power Supply:	AC 120V/60Hz
Test Mode:	USB Playing	Test Engineer:	Alen

Frequency: 30-1000MHz								
Polarization								
Horizontal	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	211.5264	60.21	-20.00	40.21	43.50	-3.29	QP
	2	269.4284	58.86	-18.71	40.15	46.50	-6.35	QP
	3	742.2586	52.01	-8.79	43.22	46.50	-3.28	QP
Vertical	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	211.5264	60.03	-20.00	40.03	43.50	-3.47	QP
	2	269.4284	59.02	-18.71	40.31	46.50	-6.19	QP
	3	744.8660	49.21	-8.73	40.48	46.50	-6.02	QP
Frequency: 1000-5000MHz								
Polarization								
Horizontal	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	1483.364	61.35	-9.73	51.62	74.00	-22.38	peak
	2	1483.364	58.79	-9.73	49.06	54.00	-4.94	AVG
	3	1631.124	56.92	-9.20	47.72	74.00	-26.28	peak
	4	1631.124	54.35	-9.20	45.15	54.00	-8.85	AVG
	5	2225.298	57.21	-7.21	50.00	74.00	-24.00	peak
	6	2225.298	54.83	-7.21	47.62	54.00	-6.38	AVG
Vertical	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	1483.364	57.22	-9.73	47.49	74.00	-26.51	peak
	2	1483.364	54.69	-9.73	44.96	54.00	-9.04	AVG
	3	1919.035	56.50	-8.10	48.40	74.00	-25.60	peak
	4	1919.035	53.99	-8.10	45.89	54.00	-8.11	AVG
	5	2225.298	58.18	-7.21	50.97	74.00	-23.03	peak
	6	2225.298	55.75	-7.21	48.54	54.00	-5.46	AVG

Date of Test:	June 20, 2013	Temperature:	25°C
EUT:	KARAOKE PLAYER	Humidity:	50%
Model No.:	KB-816	Power Supply:	AC 120V/60Hz
Test Mode:	Network	Test Engineer:	Alen

Frequency: 30-1000MHz								
Polarization								
Horizontal	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	148.4410	60.65	-23.77	36.88	43.50	-6.62	QP
	2	211.5264	60.89	-20.00	40.89	43.50	-2.61	QP
	3	742.2586	52.01	-8.79	43.22	46.50	-3.28	QP
Vertical	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	148.4410	59.25	-23.77	35.48	43.50	-8.02	QP
	2	202.1005	61.04	-20.16	40.88	43.50	-2.62	QP
	3	742.2586	49.69	-8.79	40.90	46.50	-5.60	QP
Frequency: 1000-5000MHz								
Polarization								
Horizontal	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	1483.364	61.03	-9.73	51.30	74.00	-22.70	peak
	2	1483.364	58.63	-9.73	48.90	54.00	-5.10	AVG
	3	1631.123	56.90	-9.20	47.70	74.00	-26.30	peak
	4	1631.123	54.35	-9.20	45.15	54.00	-8.85	AVG
	5	2225.298	57.79	-7.21	50.58	74.00	-23.42	peak
	6	2225.298	55.32	-7.21	48.11	54.00	-5.89	AVG
Vertical	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	1483.364	56.53	-9.73	46.80	74.00	-27.20	peak
	2	1483.364	54.10	-9.73	44.37	54.00	-9.63	AVG
	3	1631.123	54.03	-9.20	44.83	74.00	-29.17	peak
	4	1631.124	51.65	-9.20	42.45	54.00	-11.55	AVG
	5	2225.298	60.07	-7.21	52.86	74.00	-21.14	peak
	6	2225.298	57.65	-7.21	50.44	54.00	-3.56	AVG

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:

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

$$\text{Where Corrected Factor} = \text{Antenna Factor} + \text{Cable Loss} + \text{High Pass Filter Loss} - \text{Amplifier Gain}$$

3. The spectral diagrams are attached as below display the measurement of peak values.



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Job No.: alen #743

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: KARAOKE PLAYER

Mode: Playing

Model: KB-816

Manufacturer: Krisvision

Polarization: Horizontal

Power Source: AC 120V/60Hz

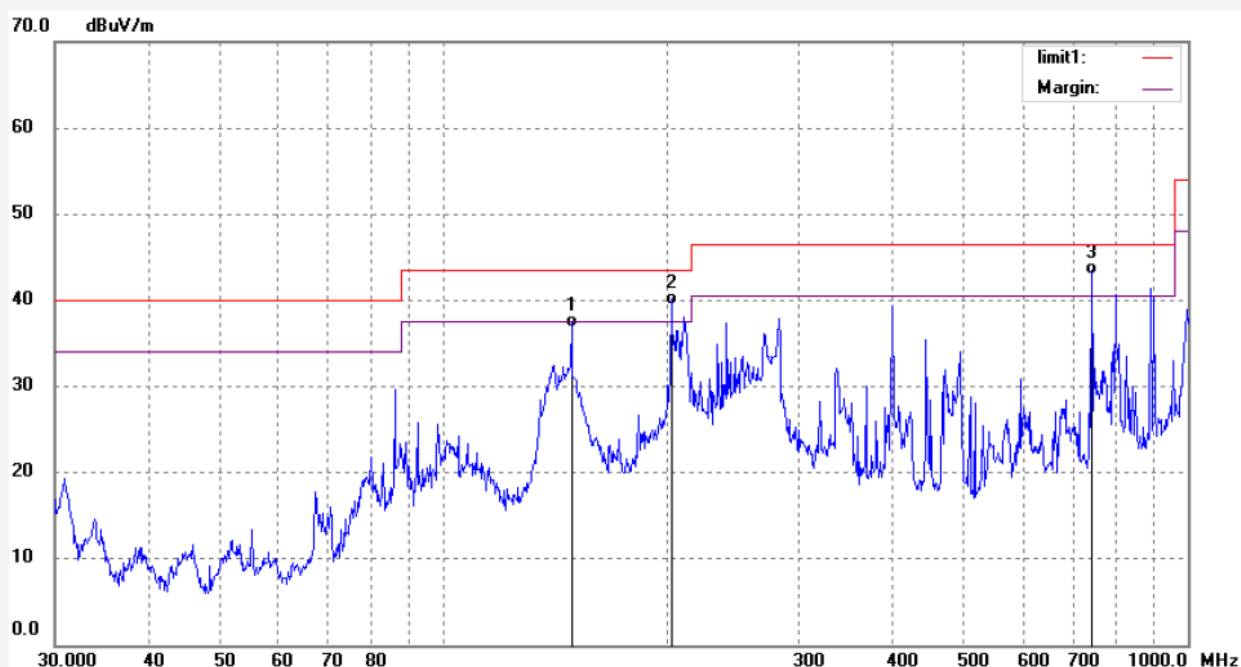
Date: 13/06/20/

Time: 14/13/23

Engineer Signature:

Distance: 3m

Note: Report No:ATE20131219



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	148.4410	60.56	-23.77	36.79	43.50	-6.71	QP			
2	202.1005	59.68	-20.16	39.52	43.50	-3.98	QP			
3	742.2586	51.74	-8.79	42.95	46.50	-3.55	QP			



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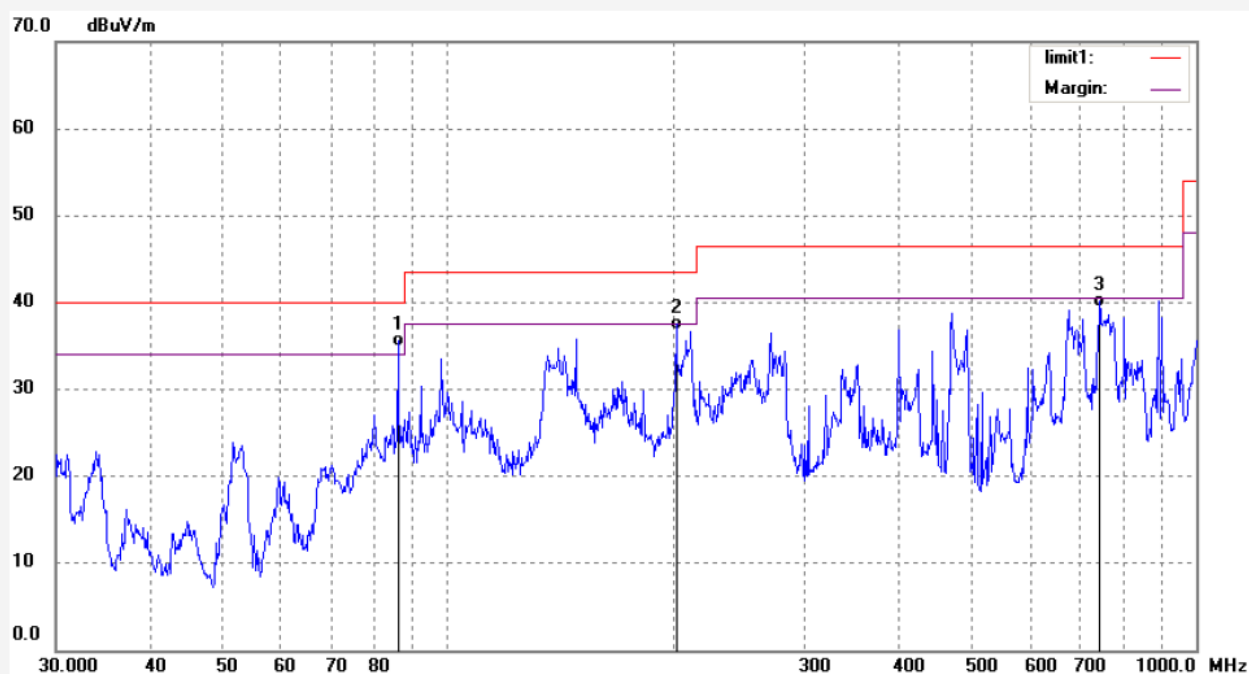
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: alen #742
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: KARAOKE PLAYER
Mode: Playing
Model: KB-816
Manufacturer: Krisvision

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 13/06/20/
Time: 14/11/35
Engineer Signature:
Distance: 3m

Note: Report No:ATE20131219



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	85.8984	56.45	-21.57	34.88	40.00	-5.12	QP			
2	202.1005	57.02	-20.16	36.86	43.50	-6.64	QP			
3	742.2587	48.28	-8.79	39.49	46.50	-7.01	QP			



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Job No.: alen #752

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: KARAOKE PLAYER

Mode: Playing

Model: KB-816

Manufacturer: Krisvision

Polarization: Horizontal

Power Source: AC 120V/60Hz

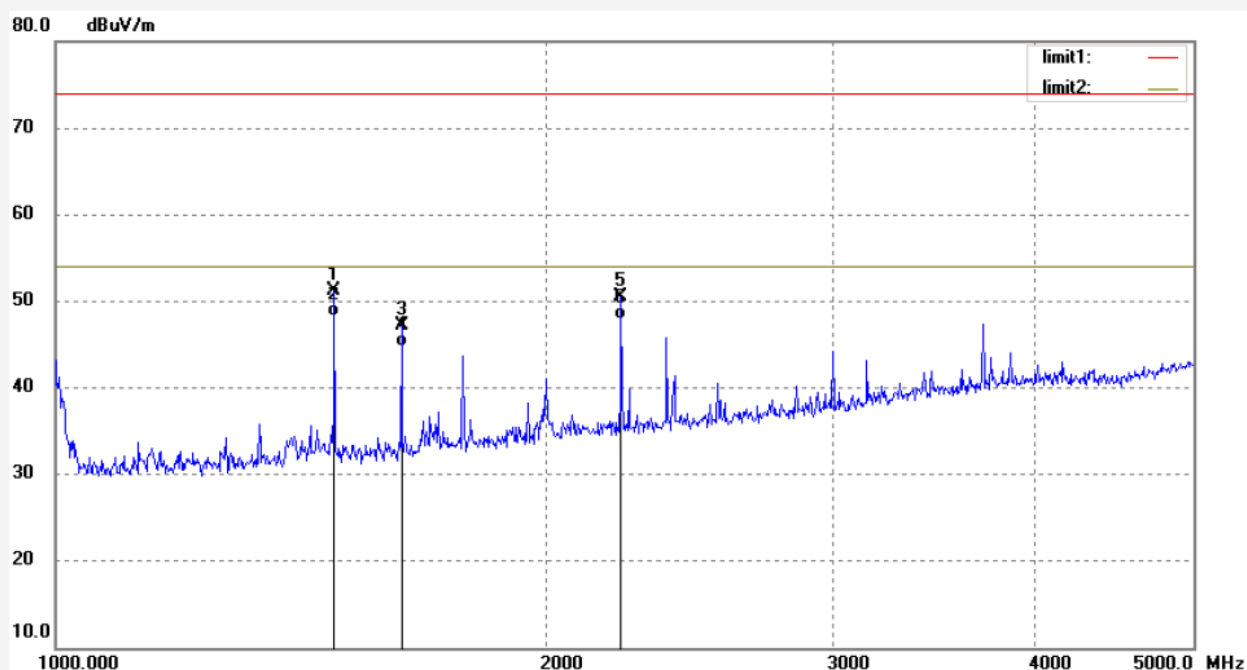
Date: 13/06/20/

Time: 14/32/29

Engineer Signature:

Distance: 3m

Note: Report No:ATE20131219



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	1483.364	60.87	-9.73	51.14	74.00	-22.86	peak			
2	1483.364	57.98	-9.73	48.25	54.00	-5.75	AVG			
3	1631.124	56.45	-9.20	47.25	74.00	-26.75	peak			
4	1631.124	53.87	-9.20	44.67	54.00	-9.33	AVG			
5	2225.298	57.72	-7.21	50.51	74.00	-23.49	peak			
6	2225.298	55.12	-7.21	47.91	54.00	-6.09	AVG			



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Job No.: alen #753

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: KARAOKE PLAYER

Mode: Playing

Model: KB-816

Manufacturer: Krisvision

Polarization: Vertical

Power Source: AC 120V/60Hz

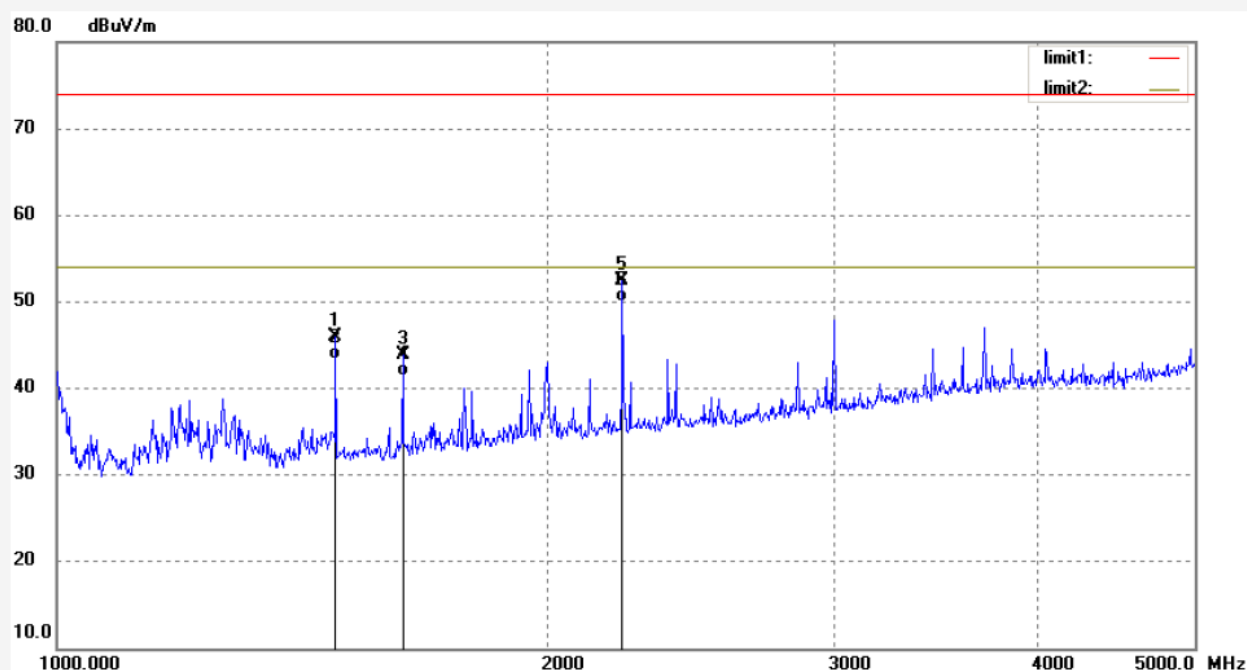
Date: 13/06/20/

Time: 14/33/40

Engineer Signature:

Distance: 3m

Note: Report No:ATE20131219



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	1483.364	55.62	-9.73	45.89	74.00	-28.11	peak			
2	1483.364	53.12	-9.73	43.39	54.00	-10.61	AVG			
3	1631.124	53.09	-9.20	43.89	74.00	-30.11	peak			
4	1631.124	50.69	-9.20	41.49	54.00	-12.51	AVG			
5	2225.298	59.68	-7.21	52.47	74.00	-21.53	peak			
6	2225.298	57.23	-7.21	50.02	54.00	-3.98	AVG			



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Job No.: alen #744

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: KARAOKE PLAYER

Mode: USB Playing

Model: KB-816

Manufacturer: Krisvision

Polarization: Horizontal

Power Source: AC 120V/60Hz

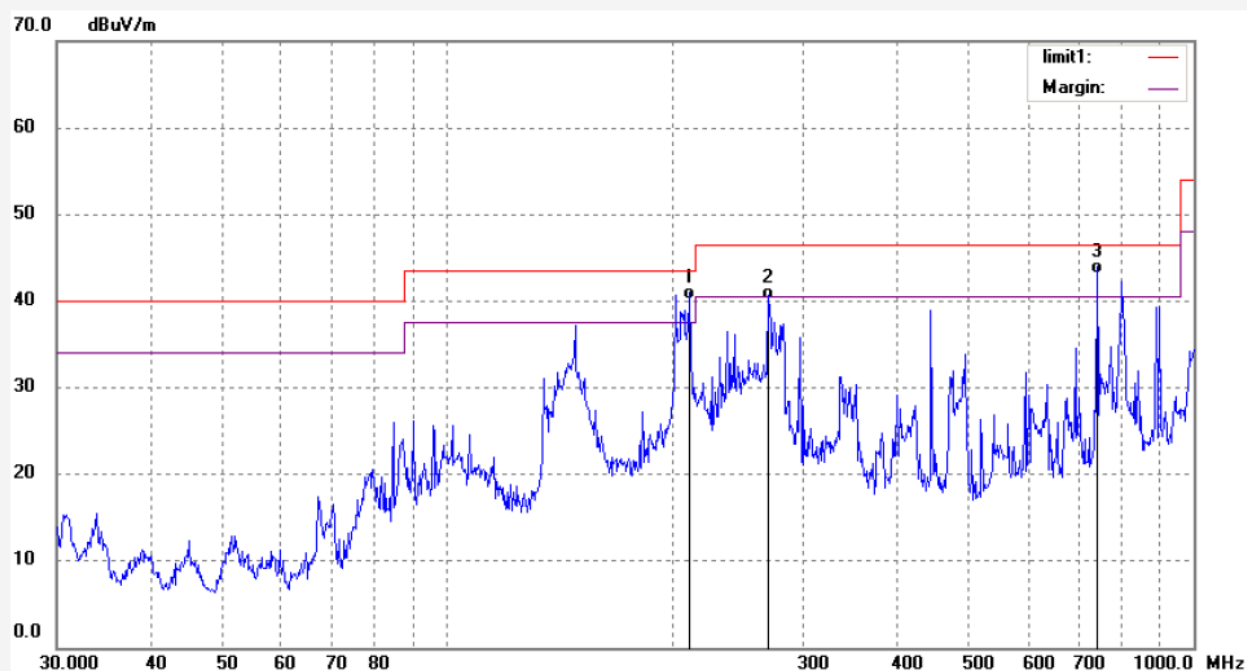
Date: 13/06/20/

Time: 14/15/56

Engineer Signature:

Distance: 3m

Note: Report No:ATE20131219



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	211.5264	60.21	-20.00	40.21	43.50	-3.29	QP			
2	269.4284	58.86	-18.71	40.15	46.50	-6.35	QP			
3	742.2586	52.01	-8.79	43.22	46.50	-3.28	QP			



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Job No.: alen #745

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: KARAOKE PLAYER

Mode: USB Playing

Model: KB-816

Manufacturer: Krisvision

Polarization: Vertical

Power Source: AC 120V/60Hz

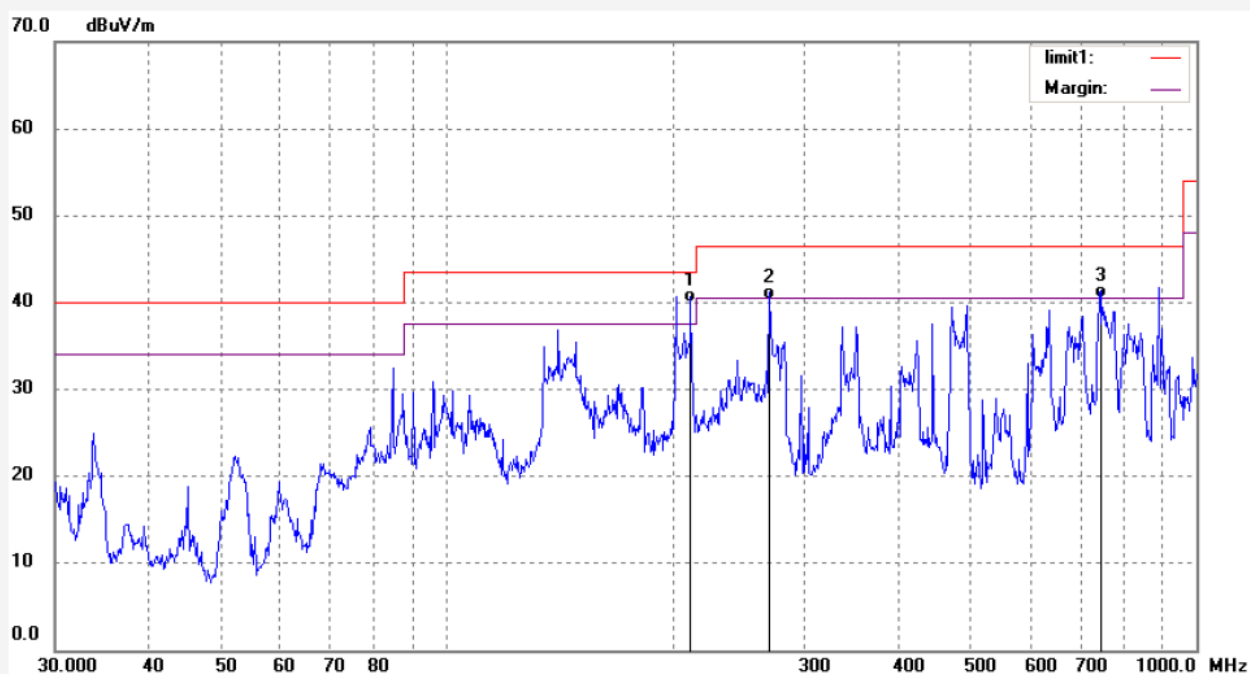
Date: 13/06/20/

Time: 14/17/46

Engineer Signature:

Distance: 3m

Note: Report No:ATE20131219



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	211.5264	60.03	-20.00	40.03	43.50	-3.47	QP			
2	269.4284	59.02	-18.71	40.31	46.50	-6.19	QP			
3	744.8660	49.21	-8.73	40.48	46.50	-6.02	QP			



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Job No.: alen #751

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: KARAOKE PLAYER

Mode: USB Playing

Model: KB-816

Manufacturer: Krisvision

Polarization: Horizontal

Power Source: AC 120V/60Hz

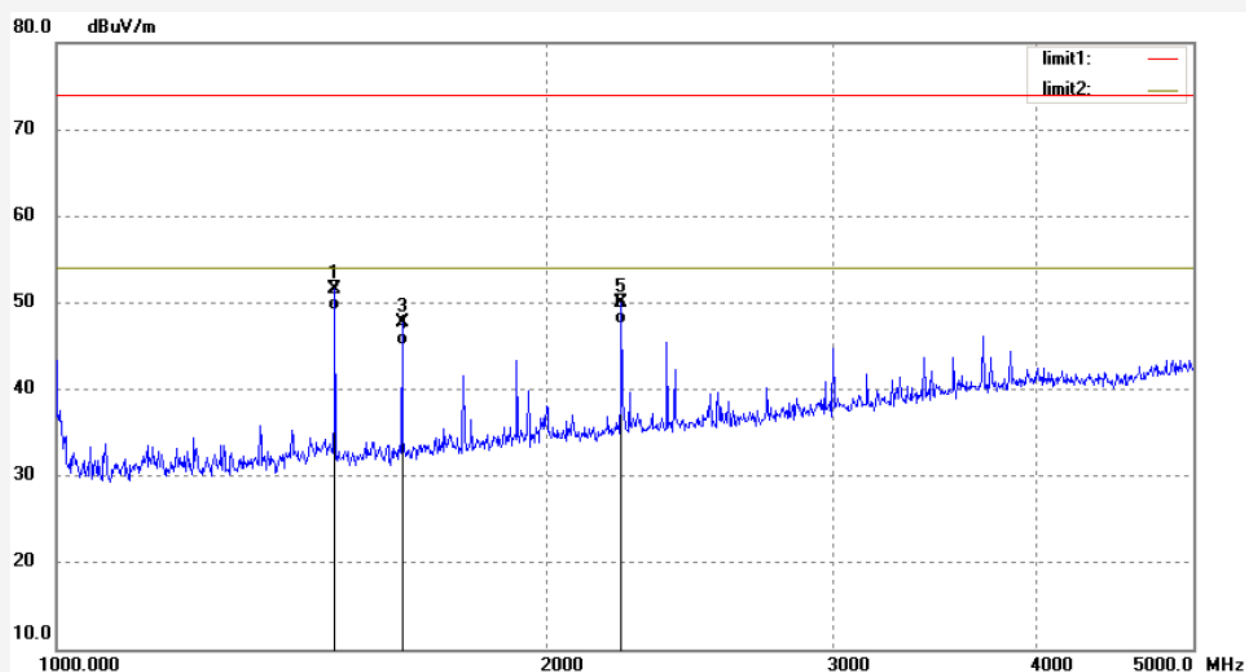
Date: 13/06/20/

Time: 14/29/33

Engineer Signature:

Distance: 3m

Note: Report No:ATE20131219



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	1483.364	61.35	-9.73	51.62	74.00	-22.38	peak			
2	1483.364	58.79	-9.73	49.06	54.00	-4.94	AVG			
3	1631.124	56.92	-9.20	47.72	74.00	-26.28	peak			
4	1631.124	54.35	-9.20	45.15	54.00	-8.85	AVG			
5	2225.298	57.21	-7.21	50.00	74.00	-24.00	peak			
6	2225.298	54.83	-7.21	47.62	54.00	-6.38	AVG			



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Job No.: alen #750

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: KARAOKE PLAYER

Mode: USB Playing

Model: KB-816

Manufacturer: Krisvision

Polarization: Vertical

Power Source: AC 120V/60Hz

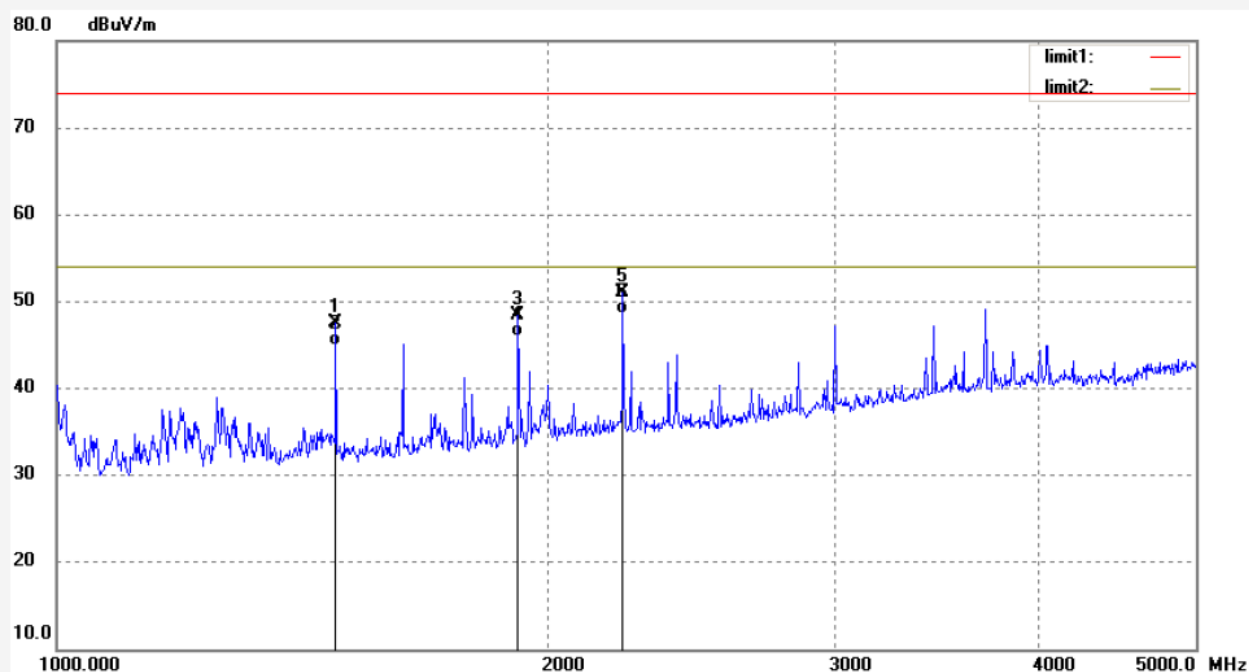
Date: 13/06/20/

Time: 14/28/24

Engineer Signature:

Distance: 3m

Note: Report No:ATE20131219



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	1483.364	57.22	-9.73	47.49	74.00	-26.51	peak			
2	1483.364	54.69	-9.73	44.96	54.00	-9.04	AVG			
3	1919.035	56.50	-8.10	48.40	74.00	-25.60	peak			
4	1919.035	53.99	-8.10	45.89	54.00	-8.11	AVG			
5	2225.298	58.18	-7.21	50.97	74.00	-23.03	peak			
6	2225.298	55.75	-7.21	48.54	54.00	-5.46	AVG			



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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 1# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: alen #747

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: KARAOKE PLAYER

Mode: Network

Model: KB-816

Manufacturer: Krisvision

Polarization: Horizontal

Power Source: AC 120V/60Hz

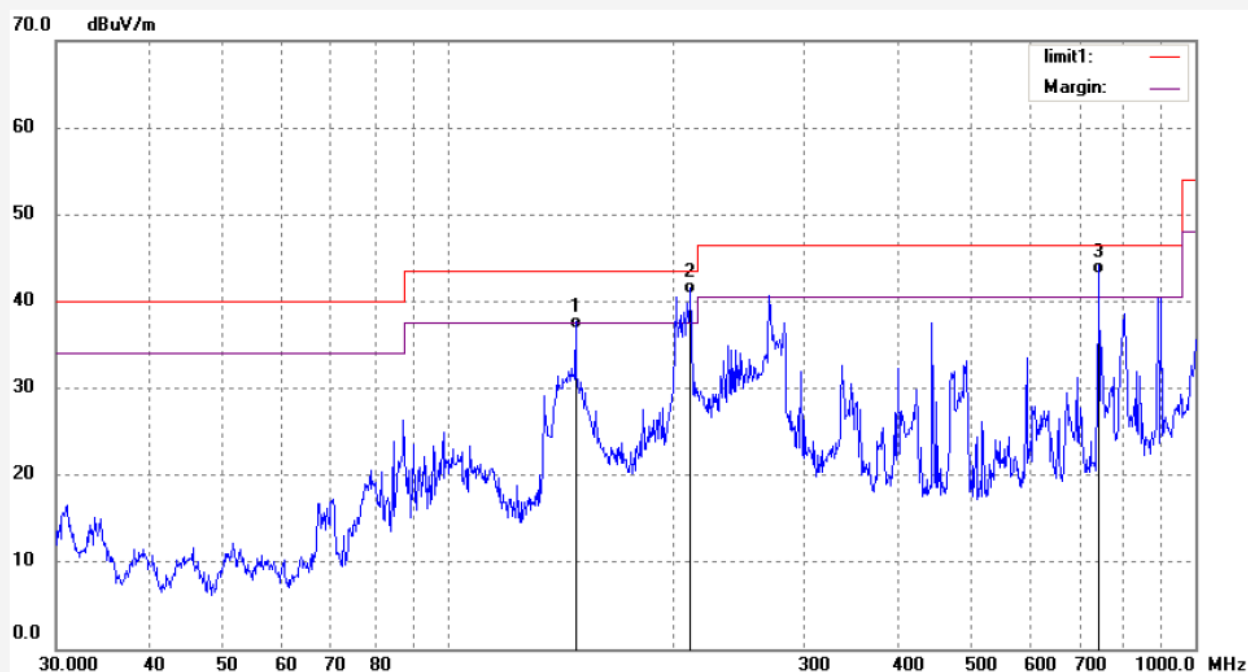
Date: 13/06/20/

Time: 14/22/05

Engineer Signature:

Distance: 3m

Note: Report No:ATE20131219



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	148.4410	60.65	-23.77	36.88	43.50	-6.62	QP			
2	211.5264	60.89	-20.00	40.89	43.50	-2.61	QP			
3	742.2586	52.01	-8.79	43.22	46.50	-3.28	QP			



ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 1# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: alen #746

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: KARAOKE PLAYER

Mode: Network

Model: KB-816

Manufacturer: Krisvision

Polarization: Vertical

Power Source: AC 120V/60Hz

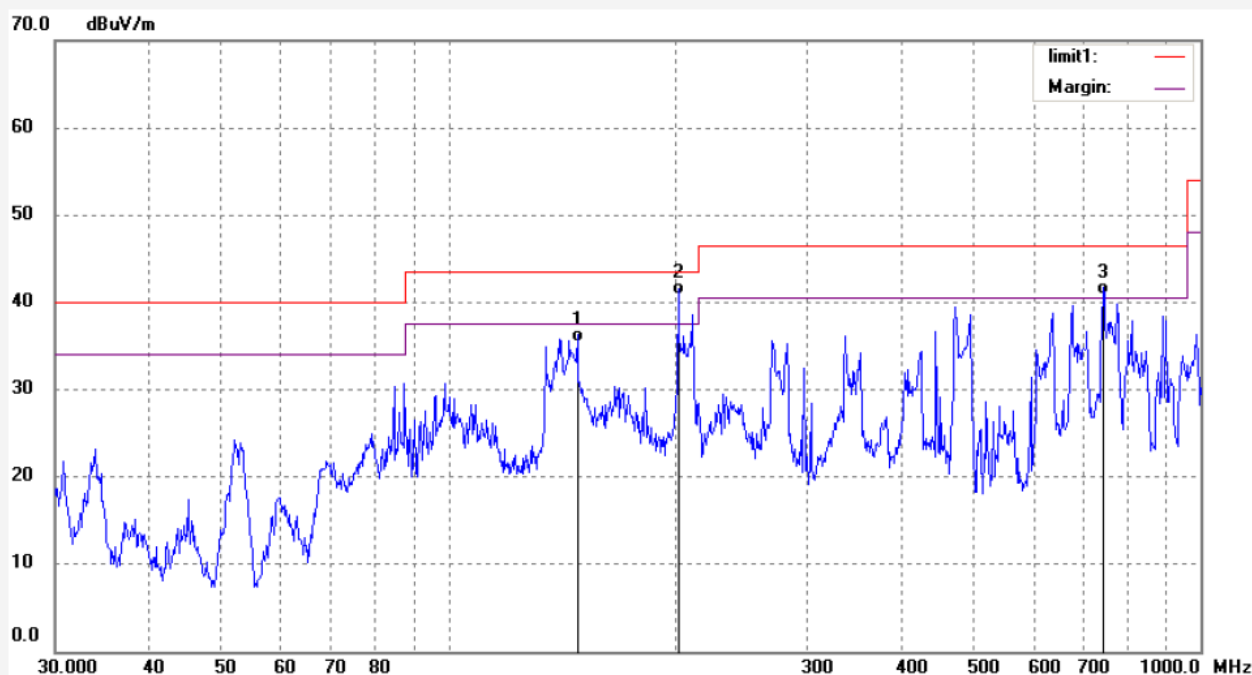
Date: 13/06/20/

Time: 14/19/25

Engineer Signature:

Distance: 3m

Note: Report No:ATE20131219



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	148.4410	59.25	-23.77	35.48	43.50	-8.02	QP			
2	202.1005	61.04	-20.16	40.88	43.50	-2.62	QP			
3	742.2586	49.69	-8.79	40.90	46.50	-5.60	QP			



ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 1# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: alen #748

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: KARAOKE PLAYER

Mode: Network

Model: KB-816

Manufacturer: Krisvision

Polarization: Horizontal

Power Source: AC 120V/60Hz

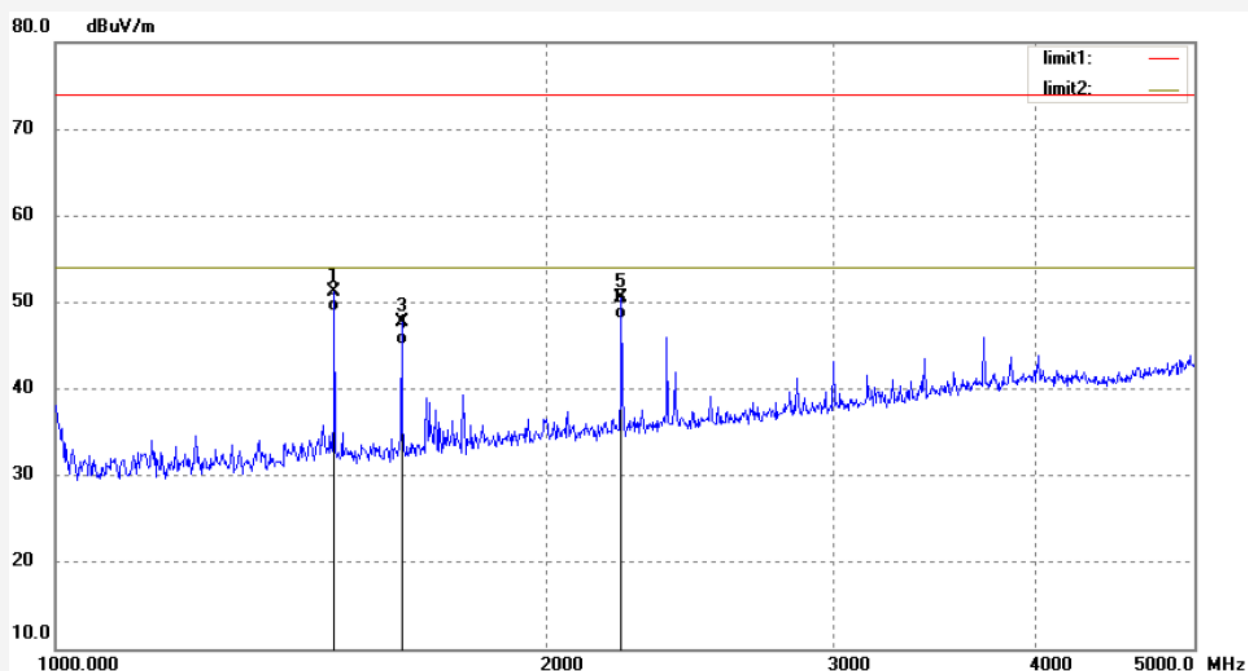
Date: 13/06/20/

Time: 14/24/12

Engineer Signature:

Distance: 3m

Note: Report No:ATE20131219



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	1483.364	61.03	-9.73	51.30	74.00	-22.70	peak			
2	1483.364	58.63	-9.73	48.90	54.00	-5.10	AVG			
3	1631.123	56.90	-9.20	47.70	74.00	-26.30	peak			
4	1631.123	54.35	-9.20	45.15	54.00	-8.85	AVG			
5	2225.298	57.79	-7.21	50.58	74.00	-23.42	peak			
6	2225.298	55.32	-7.21	48.11	54.00	-5.89	AVG			



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Site: 1# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: alen #749

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: KARAOKE PLAYER

Mode: Network

Model: KB-816

Manufacturer: Krisvision

Polarization: Vertical

Power Source: AC 120V/60Hz

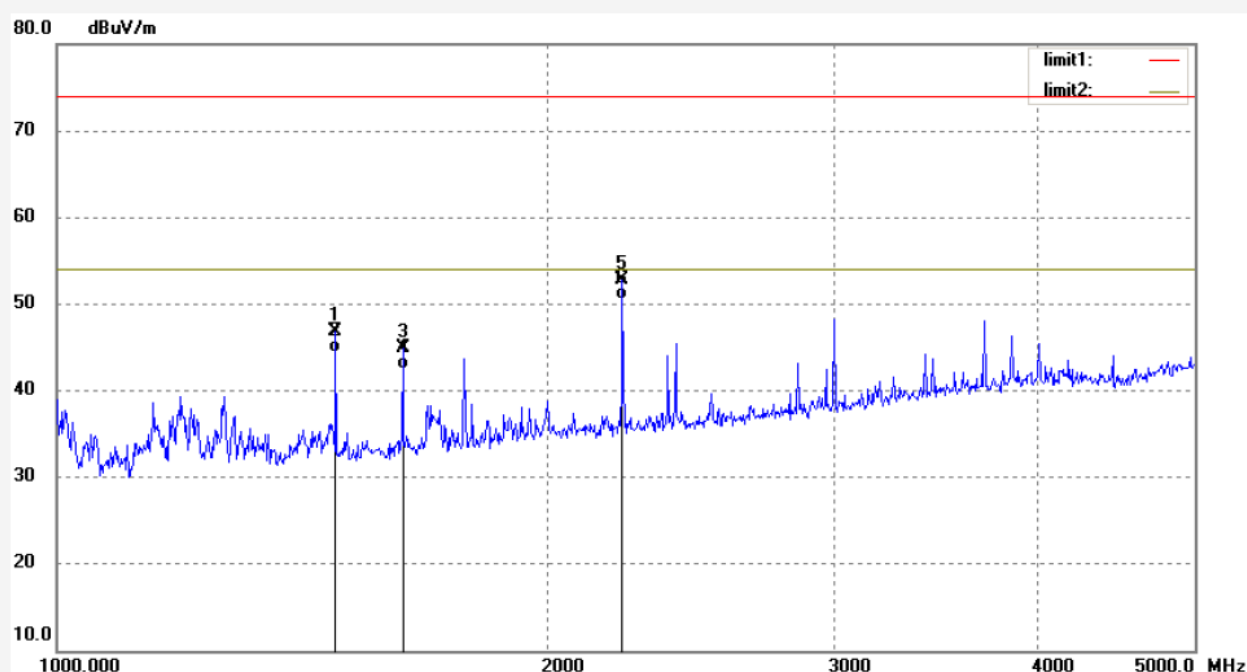
Date: 13/06/20/

Time: 14/25/45

Engineer Signature:

Distance: 3m

Note: Report No:ATE20131219



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	1483.364	56.53	-9.73	46.80	74.00	-27.20	peak			
2	1483.364	54.10	-9.73	44.37	54.00	-9.63	AVG			
3	1631.123	54.03	-9.20	44.83	74.00	-29.17	peak			
4	1631.124	51.65	-9.20	42.45	54.00	-11.55	AVG			
5	2225.298	60.07	-7.21	52.86	74.00	-21.14	peak			
6	2225.298	57.65	-7.21	50.44	54.00	-3.56	AVG			