

APPLICATION CERTIFICATION FCC Part 15B
On Behalf of
HONG KONG NATURAL SOUND ELECTRONICS LIMITED

MP4
Model No.: ID2450, Eclipse Touch Pro Co

FCC ID: PWK-ID2450

Prepared for : HONG KONG NATURAL SOUND ELECTRONICS
LIMITED
Address : FLAT/RM M 4/F CONTINENTAL MANSION 300
KING'S ROAD HONG KONG

Prepared by : ACCURATE TECHNOLOGY CO. LTD
Address : F1, Bldg. A, Changyuan New Material Port, Keyuan Rd.
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Report Number : ATE20140549
Date of Test : Apr 14-18,2014
Date of Report : Apr 18,2014

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Test Report Certification

Applicant : HONG KONG NATURAL SOUND ELECTRONICS LIMITED

Manufacturer : Natural Sound Electronics (Shenzhen) Co., Ltd.

EUT Description : MP4

(A) MODEL NO.: ID2450,Eclipse Touch Pro Co

(B) SERIAL NO.: N/A

(C) POWER SUPPLY: DC 3.7V (Li-polymer battery) or DC 5V (Power by USB port)

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 : Apr 14-18,2014

Prepared by :



(Eric, Engineer)

Approved & Authorized Signer :



(Sean Liu, Manager)

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

EUT	:	MP4
Model Number	:	ID2450, Eclipse Touch Pro Co (Note: These samples are same except for the model number is difference. So we prepare the ID2450 for FCC test.)
Power Supply	:	DC 3.7V (Li-polymer battery) or DC 5V (Power by USB port)
Highest operation frequency of the EUT:	:	96MHz
Applicant	:	HONG KONG NATURAL SOUND ELECTRONICS LIMITED
Address	:	FLAT/RM M 4/F CONTINENTAL MANSION 300 KING'S ROAD HONG KONG
Manufacturer	:	Natural Sound Electronics (Shenzhen) Co., Ltd.
Address	:	4th building, Xinyuan industrial zone, Gushu village, Bao'an district, Shenzhen, China
Date of sample received	:	Apr 14, 2014
Date of Test	:	Apr 14-18, 2014

1.2. Accessory and Auxiliary Equipment

PC	Manufacturer: LENOVO
	M/N: 4290-RT8
	S/N: R9-FW93G 11/08

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 (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 date	Calibrated until
EMI Test Receiver	Rohde&Schwarz	ESCS30	100307	Jan. 11, 2014	Jan. 10, 2015
EMI Test Receiver	Rohde&Schwarz	ESPI3	101526/003	Jan. 11, 2014	Jan. 10, 2015
Spectrum Analyzer	Agilent	E7405A	MY45115511	Jan. 11, 2014	Jan. 10, 2015
Pre-Amplifier	Rohde&Schwarz	CBLU118354 0-01	3791	Jan. 11, 2014	Jan. 10, 2015
Loop Antenna	Schwarzbeck	FMZB1516	1516131	Jan. 15, 2014	Jan. 14, 2015
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	Jan. 15, 2014	Jan. 14, 2015
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	Jan. 15, 2014	Jan. 14, 2015
Horn Antenna	Schwarzbeck	BBHA9170	9170-359	Jan. 15, 2014	Jan. 14, 2015
LISN	Rohde&Schwarz	ESH3-Z5	100305	Jan. 11, 2014	Jan. 10, 2015
LISN	Schwarzbeck	NSLK8126	8126431	Jan. 11, 2014	Jan. 10, 2015

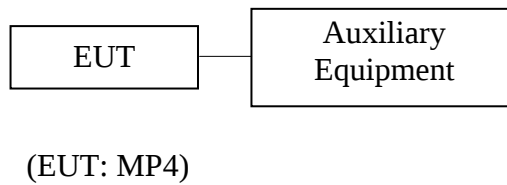
3. OPERATION OF EUT DURING TESTING

3.1.Operating Mode

The modes are used:

- 1) Playing
- 2) Transfer data
- 3) FM 88
- 4) FM 98
- 5) FM 108

3.2.Configuration and peripherals



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

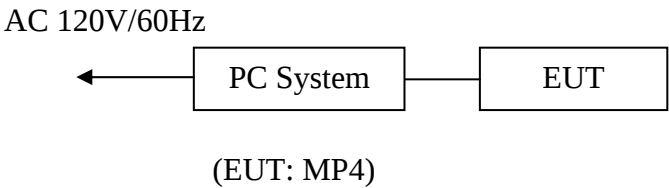
5. CONDUCTED EMISSION FOR FCC PART 15 SECTION

15.107(A)

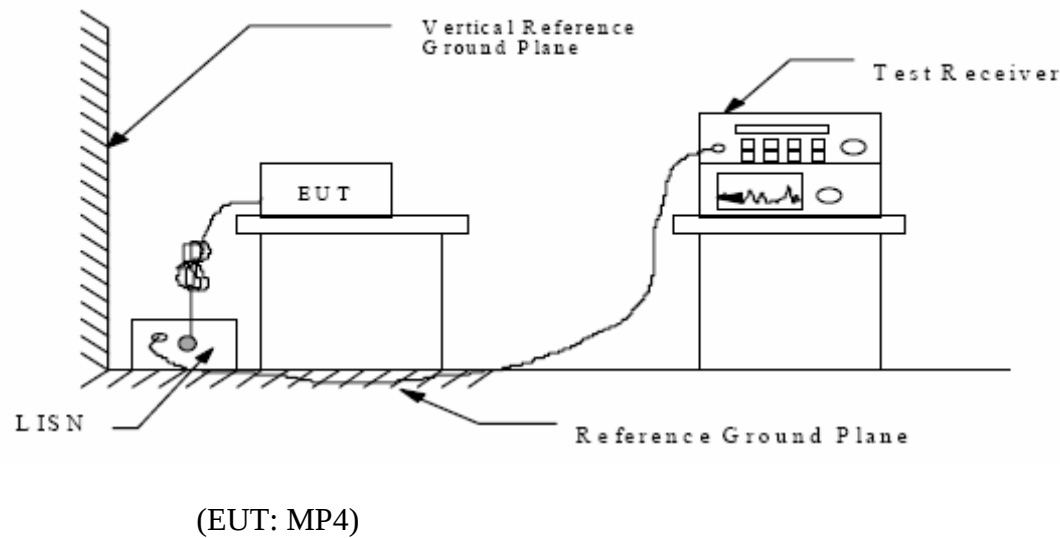
5.1. Block Diagram of Test Setup

5.1.1. Block diagram of connection between the EUT and simulators

5.1.1.1. For Transfer data



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(μV)	
	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.MP4 (EUT)

Model Number : ID2450
 Serial Number : N/A
 Manufacturer : Natural Sound Electronics (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 modes (Transfer data) 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.

Test mode : Transfer data								
MEASUREMENT RESULT: "RY0414-1_fin"								
2014-4-14 14:52								
Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE	
0.167581	61.30	10.5	65	3.8	QP	N	GND	
3.665952	38.90	12.3	56	17.1	QP	N	GND	
27.033926	35.40	12.0	60	24.6	QP	N	GND	
MEASUREMENT RESULT: "RY0414-1_fin2"								
2014-4-14 14:52								
Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE	
0.171646	44.90	10.6	55	10.0	AV	N	GND	
2.928308	31.10	12.3	46	14.9	AV	N	GND	
24.636567	27.90	12.0	50	22.1	AV	N	GND	
MEASUREMENT RESULT: "RY0414-2_fin"								
2014-4-14 14:53								
Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE	
0.161181	61.60	10.5	65	3.8	QP	L1	GND	
2.833391	37.20	12.3	56	18.8	QP	L1	GND	
24.933539	32.70	12.0	60	27.3	QP	L1	GND	
MEASUREMENT RESULT: "RY0414-2_fin2"								
2014-4-14 14:53								
Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE	
0.160218	42.80	10.5	56	12.7	AV	L1	GND	
2.945905	31.00	12.3	46	15.0	AV	L1	GND	
24.343132	27.80	12.0	50	22.2	AV	L1	GND	

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

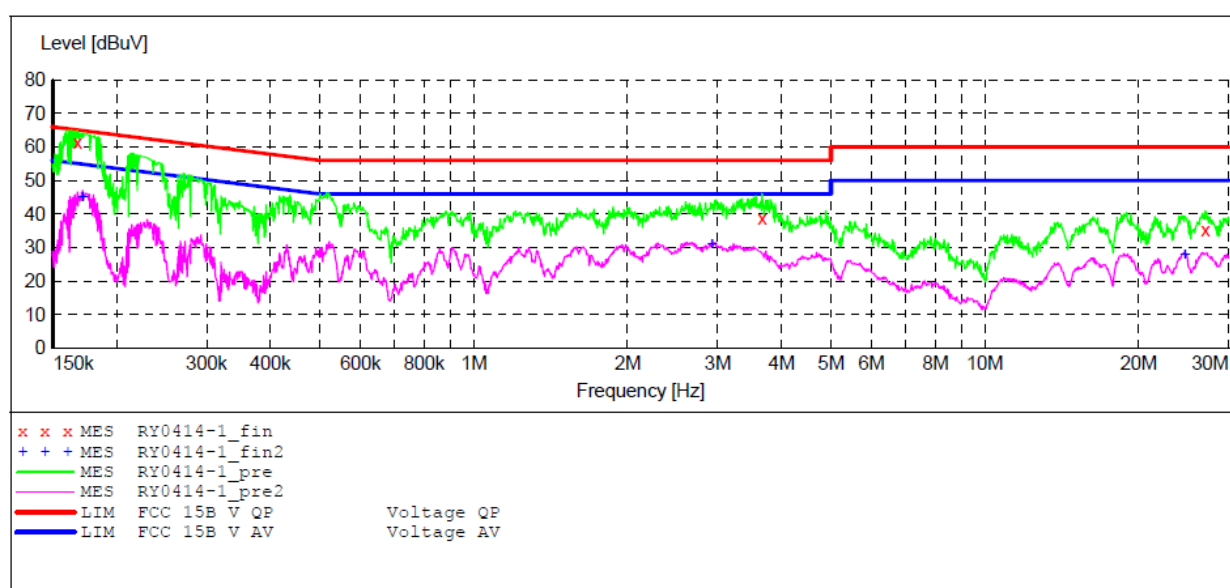
ACCURATE TECHNOLOGY CO.,LTD**CONDUCTED EMISSION STANDARD FCC PART 15B**

EUT: MP4 M/N:ID2450
 Manufacturer: NATURAL SOUND
 Operating Condition: Transfer data
 Test Site: 2#Shielding Room
 Operator: Ricky
 Test Specification: N 120V/60Hz
 Comment: Report NO.:ATE20140549
 Start of Test: 2014-4-14 / 14:50:47

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	0.4 %	QuasiPeak	1.0 s	9 kHz	LISN(ESH3-Z5)
			Average			

**MEASUREMENT RESULT: "RY0414-1_fin"**

2014-4-14 14:52

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.167581	61.30	10.5	65	3.8	QP	N	GND
3.665952	38.90	12.3	56	17.1	QP	N	GND
27.033926	35.40	12.0	60	24.6	QP	N	GND

MEASUREMENT RESULT: "RY0414-1_fin2"

2014-4-14 14:52

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.171646	44.90	10.6	55	10.0	AV	N	GND
2.928308	31.10	12.3	46	14.9	AV	N	GND
24.636567	27.90	12.0	50	22.1	AV	N	GND

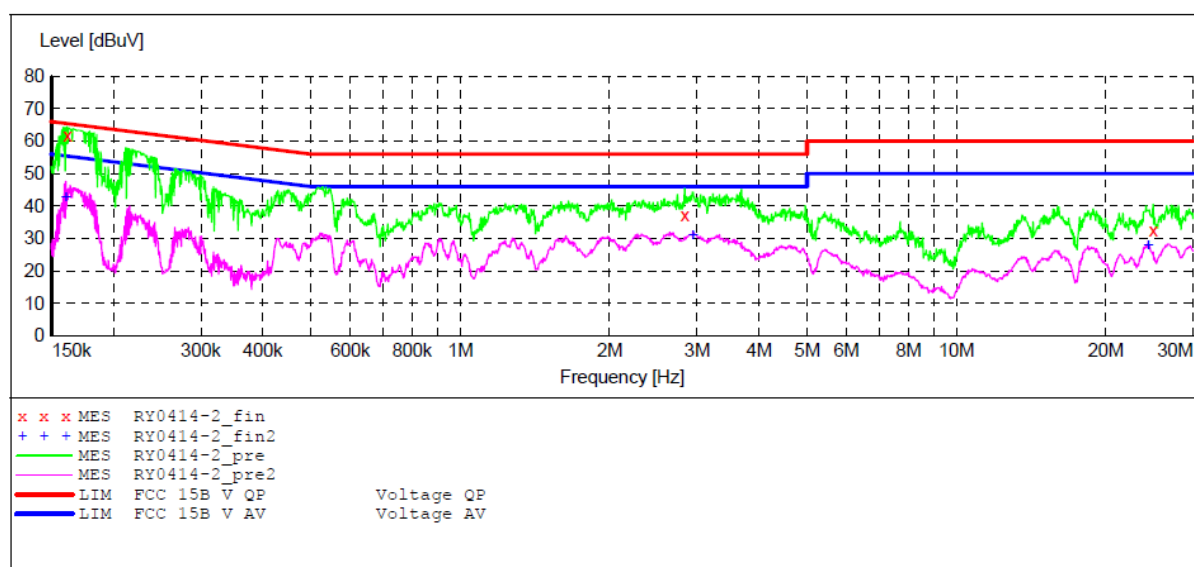
ACCURATE TECHNOLOGY CO.,LTD**CONDUCTED EMISSION STANDARD FCC PART 15B**

EUT: MP4 M/N:ID2450
 Manufacturer: Transfer data
 Operating Condition: ON
 Test Site: 2#Shielding Room
 Operator: Ricky
 Test Specification: L 120V/60Hz
 Comment: Report NO.:ATE20140549
 Start of Test: 2014-4-14 / 14:52:35

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

Short Description: _SUB_STD_VTERM2 1.70

Start Frequency	Stop Frequency	Step Width	Detector	Meas. Time	IF Bandw.	Transducer
150.0 kHz	30.0 MHz	0.4 %	QuasiPeak	1.0 s	9 kHz	LISN (ESH3-Z5)
			Average			

**MEASUREMENT RESULT: "RY0414-2_fin"**

2014-4-14 14:53

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.161181	61.60	10.5	65	3.8	QP	L1	GND
2.833391	37.20	12.3	56	18.8	QP	L1	GND
24.933539	32.70	12.0	60	27.3	QP	L1	GND

MEASUREMENT RESULT: "RY0414-2_fin2"

2014-4-14 14:53

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.160218	42.80	10.5	56	12.7	AV	L1	GND
2.945905	31.00	12.3	46	15.0	AV	L1	GND
24.343132	27.80	12.0	50	22.2	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 FM



(EUT: MP4)

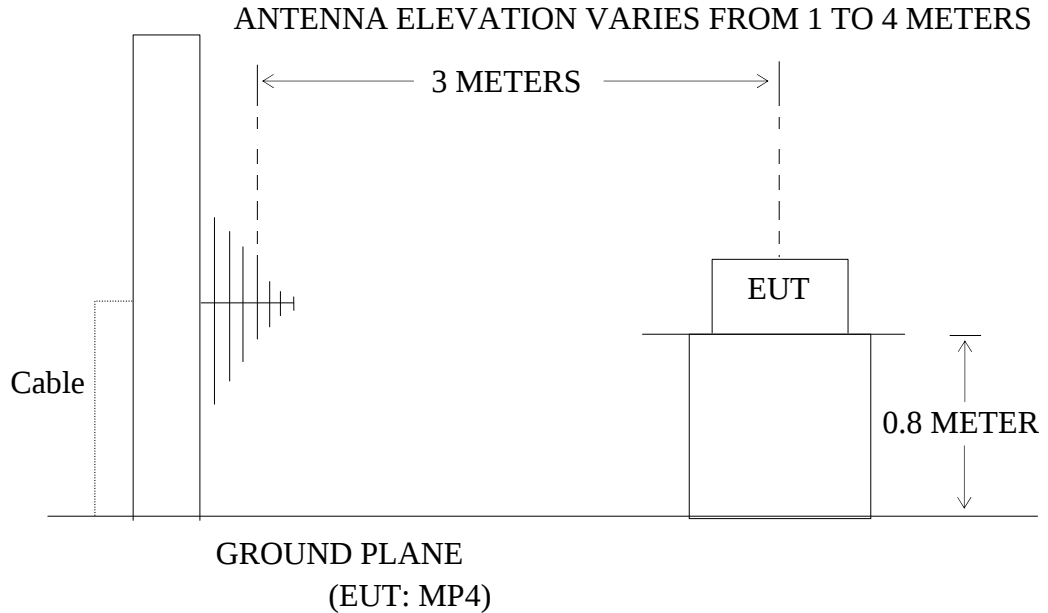
6.1.1.2. For Transfer data

AC 120V/60Hz



(EUT: MP4)

6.1.2. Semi-Anechoic Chamber Test Setup Diagram



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.MP4 (EUT)

Model Number : ID2450
 Serial Number : N/A
 Manufacturer : Natural Sound Electronics (Shenzhen) Co., Ltd.

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, Transfer data, FM) 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

The frequency range from 30MHz to 1000MHz is checked.

The highest frequency of the internal sources of the EUT is less than 108MHz;
The measurement shall only be made up to 1GHz.

6.6.The Emission Measurement Result

PASS.

Test mode: Playing								
Polarization								
Horizontal	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	239.9874	62.56	-19.80	42.76	46.00	-3.24	QP
	2	287.9904	61.10	-18.12	42.98	46.00	-3.02	QP
	3	432.5457	57.94	-15.10	42.84	46.00	-3.16	QP
Vertical	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	222.9501	56.90	-19.91	36.99	46.00	-9.01	QP
	2	239.9874	57.83	-19.80	38.03	46.00	-7.97	QP
	3	480.5276	57.08	-14.16	42.92	46.00	-3.08	QP
Test mode: Transfer data								
Polarization								
Horizontal	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	167.8242	56.19	-22.03	34.16	43.50	-9.34	QP
	2	252.0627	61.90	-19.62	42.28	46.00	-3.72	QP
	3	336.0351	57.99	-16.71	41.28	46.00	-4.72	QP
Vertical	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	83.8156	56.47	-21.51	34.96	40.00	-5.04	QP
	2	167.8242	58.03	-22.03	36.00	43.50	-7.50	QP
	3	252.0627	62.12	-19.62	42.50	46.00	-3.50	QP

Test mode: FM88MHz								
Polarization								
Horizontal	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	167.8243	57.26	-22.02	35.24	43.50	-8.26	QP
	2	360.4476	55.65	-15.92	39.73	46.00	-6.27	QP
	3	408.9460	56.06	-15.48	40.58	46.00	-5.42	QP
Vertical	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	119.8556	55.09	-22.52	32.57	43.50	-10.93	QP
	2	167.8243	55.02	-22.02	33.00	43.50	-10.50	QP
	3	360.4476	47.93	-15.92	32.01	46.00	-13.99	QP
Test mode: FM98MHz								
Polarization								
Horizontal	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	119.8556	53.14	-22.52	30.62	43.50	-12.88	QP
	2	263.8190	53.38	-18.92	34.46	46.00	-11.54	QP
	3	360.4476	53.22	-15.92	37.30	46.00	-8.70	QP
Vertical	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	119.8556	54.58	-22.52	32.06	43.50	-11.44	QP
	2	167.8243	54.84	-22.02	32.82	43.50	-10.68	QP
	3	360.4476	47.78	-15.92	31.86	46.00	-14.14	QP
Test mode: FM108MHz								
Polarization								
Horizontal	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	119.8556	53.34	-22.52	30.82	43.50	-12.68	QP
	2	263.8190	52.79	-18.92	33.87	46.00	-12.13	QP
	3	360.4476	53.32	-15.92	37.40	46.00	-8.60	QP
Vertical	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	119.8556	54.42	-22.52	31.90	43.50	-11.60	QP
	2	167.8243	54.78	-22.02	32.76	43.50	-10.74	QP
	3	360.4476	45.50	-15.92	29.58	46.00	-16.42	QP

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 are attached as below display the measurement of peak values



ACCURATE TECHNOLOGY CO., LTD.

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Site: 1# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: RICKY #1083

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: MP4

Mode: Playing

Model: ID2450

Manufacturer: NATURAL SOUND

Polarization: Vertical

Power Source: DC 3.7V

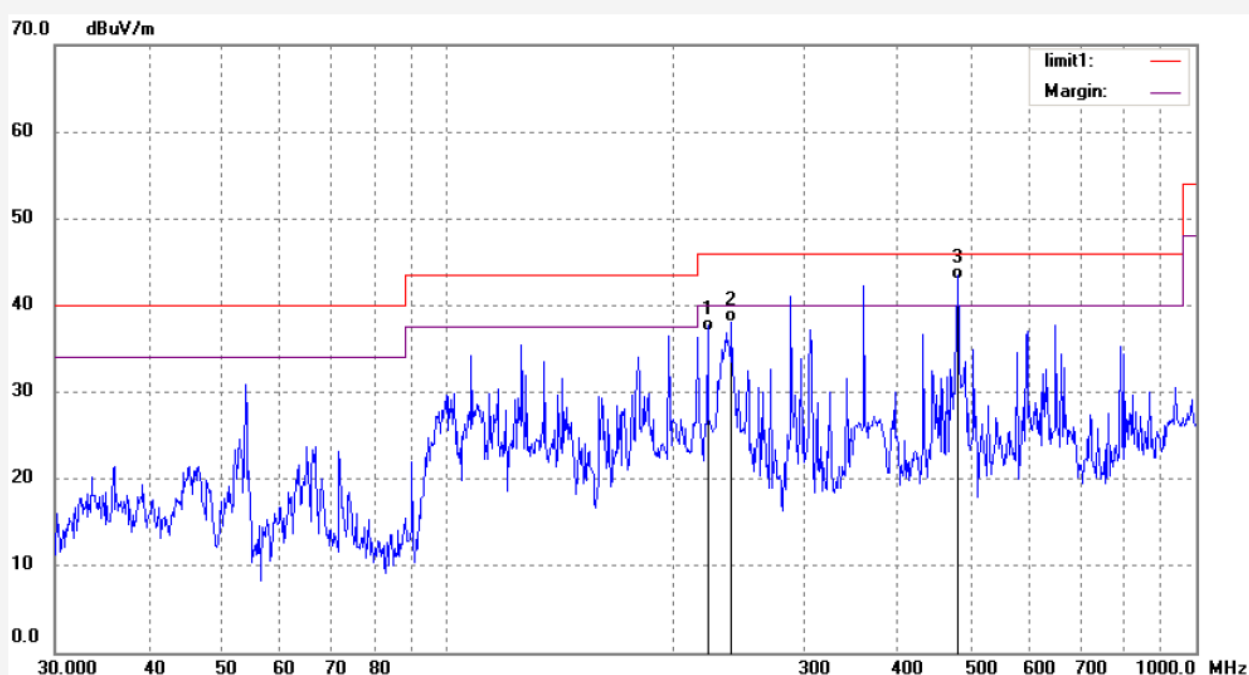
Date: 2014/04/14

Time: 14:37:03

Engineer Signature: Ricky

Distance: 3m

Note: Report No.: ATE20140549



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	222.9501	56.90	-19.91	36.99	46.00	-9.01	QP			
2	239.9874	57.83	-19.80	38.03	46.00	-7.97	QP			
3	480.5276	57.08	-14.16	42.92	46.00	-3.08	QP			



ACCURATE TECHNOLOGY CO., LTD.

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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.: RICKY #1084

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: MP4

Mode: Playing

Model: ID2450

Manufacturer: NATURAL SOUND

Polarization: Horizontal

Power Source: DC 3.7V

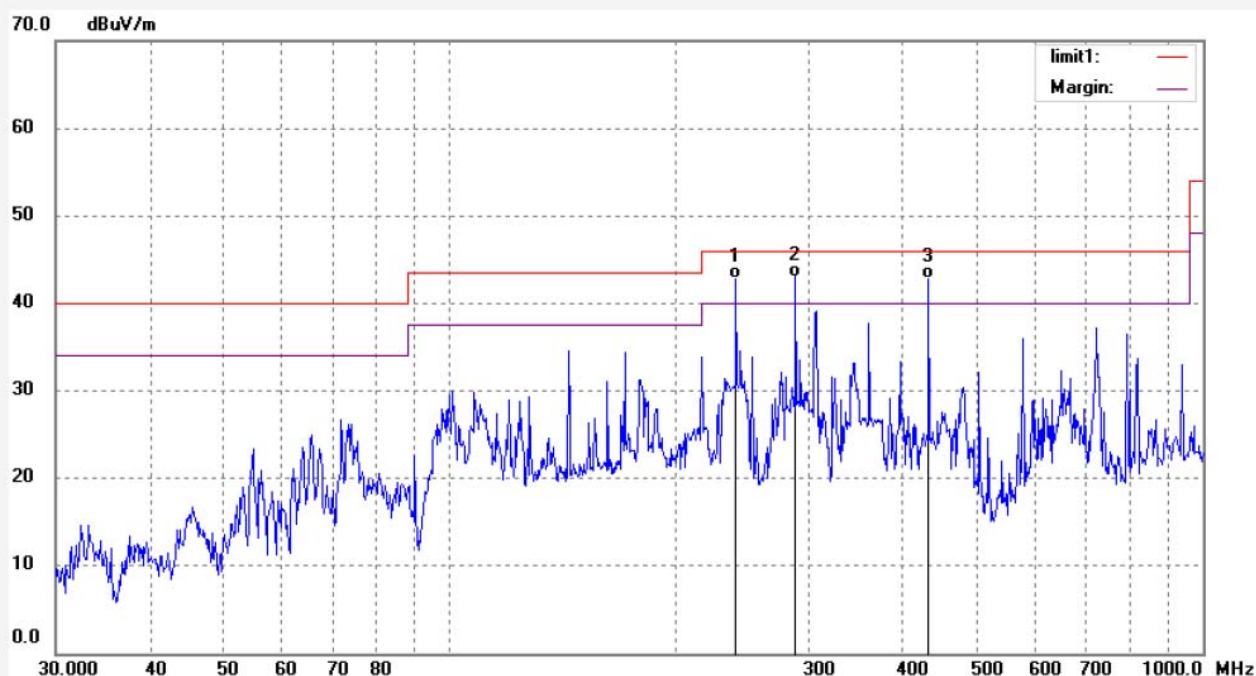
Date: 2014/04/14

Time: 14:38:23

Engineer Signature: Ricky

Distance: 3m

Note: Report No.:ATE20140549



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	239.9874	62.56	-19.80	42.76	46.00	-3.24	QP			
2	287.9904	61.10	-18.12	42.98	46.00	-3.02	QP			
3	432.5457	57.94	-15.10	42.84	46.00	-3.16	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.: RICKY #1085

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: MP4

Mode: Transfer data

Model: ID2450

Manufacturer: NATURAL SOUND

Polarization: Horizontal

Power Source: DC 5V

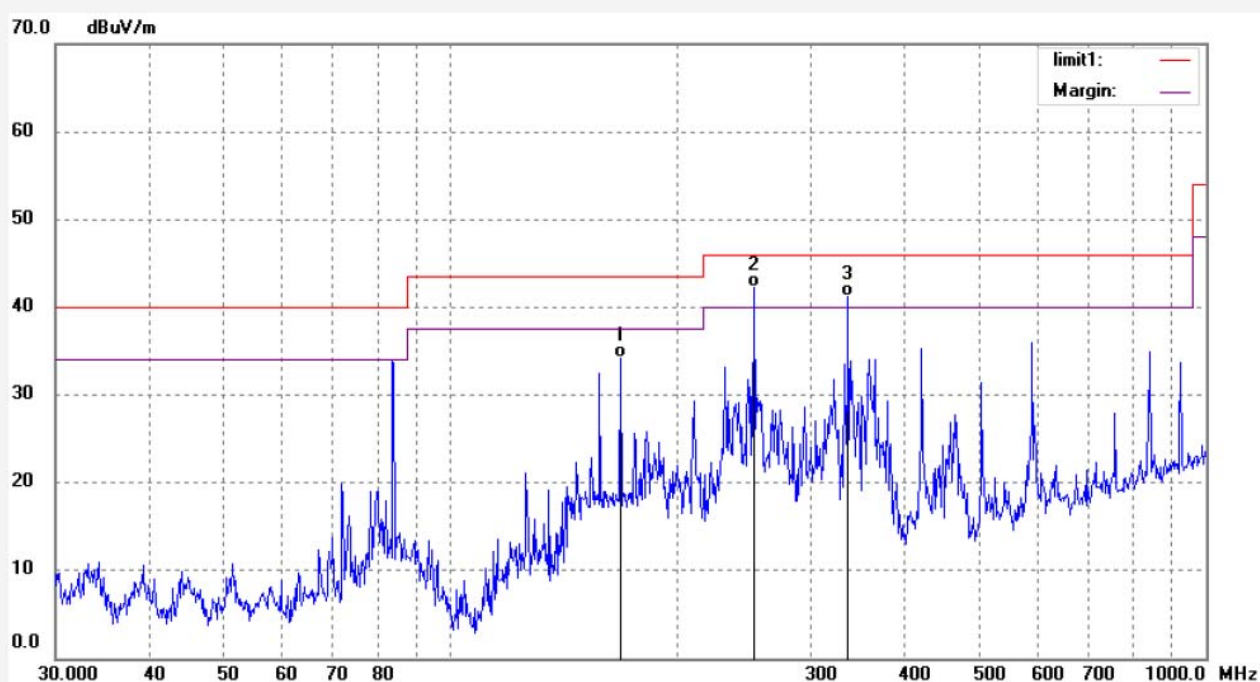
Date: 2014/04/14

Time: 14:40:34

Engineer Signature: Ricky

Distance: 3m

Note: Report No.:ATE20140549



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	167.8242	56.19	-22.03	34.16	43.50	-9.34	QP			
2	252.0627	61.90	-19.62	42.28	46.00	-3.72	QP			
3	336.0351	57.99	-16.71	41.28	46.00	-4.72	QP			



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Site: 1# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: RICKY #1086

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: MP4

Mode: Transfer data

Model: ID2450

Manufacturer: NATURAL SOUND

Polarization: Vertical

Power Source: DC 5V

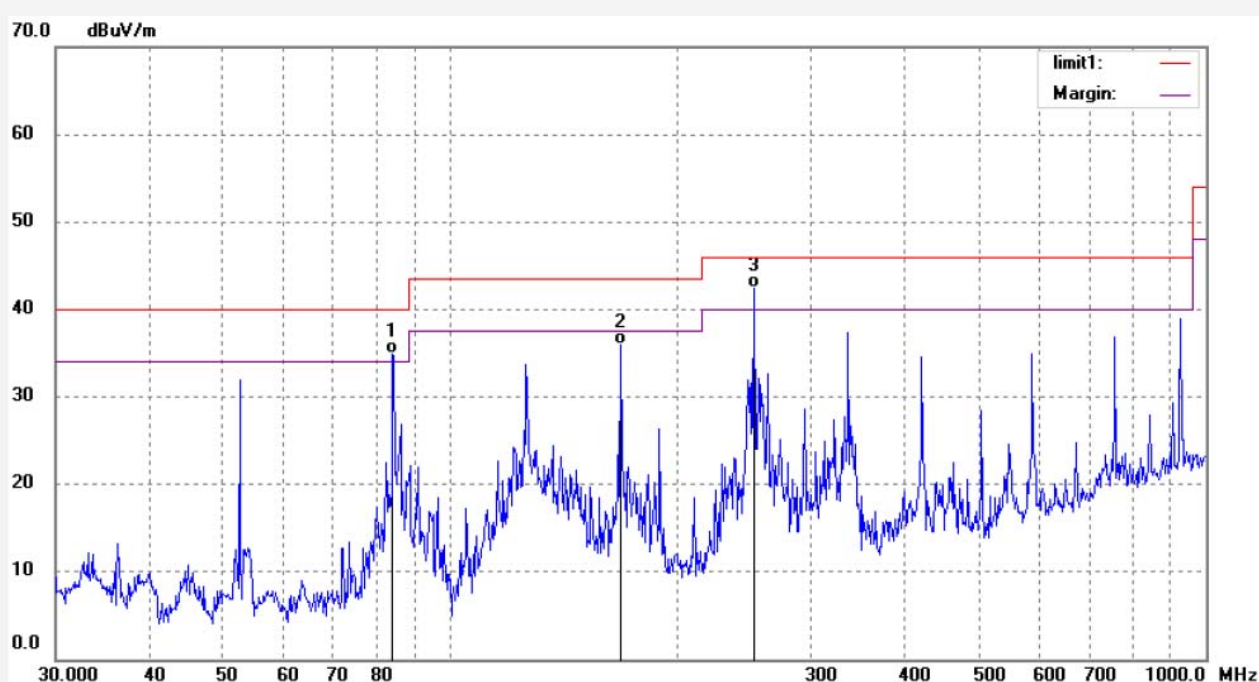
Date: 2014/04/14

Time: 14:43:53

Engineer Signature: Ricky

Distance: 3m

Note: Report No.:ATE20140549



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	83.8156	56.47	-21.51	34.96	40.00	-5.04	QP			
2	167.8242	58.03	-22.03	36.00	43.50	-7.50	QP			
3	252.0627	62.12	-19.62	42.50	46.00	-3.50	QP			



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Site: 1# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: RICKY #1093

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: MP4

Mode: FM 88MHz

Model: ID2450

Manufacturer: NATURAL SOUND

Polarization: Horizontal

Power Source: DC 3.7V

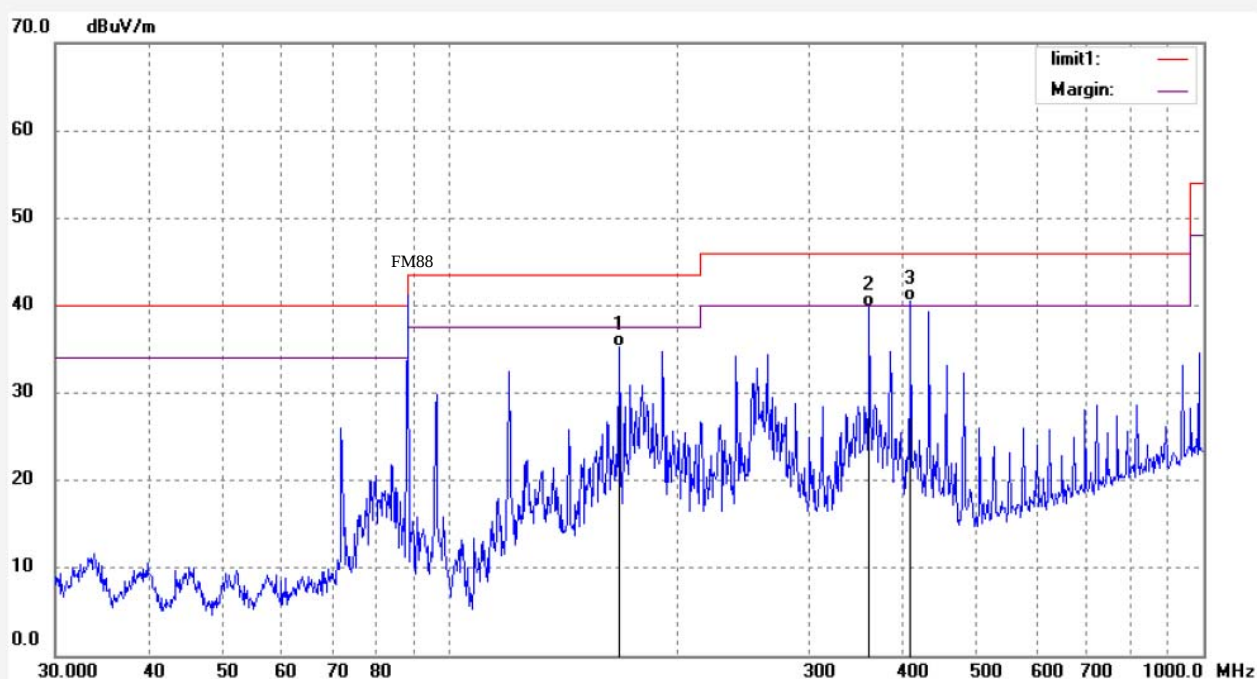
Date: 2014/04/15

Time: 13:57:19

Engineer Signature: Ricky

Distance: 3m

Note: Report No.:ATE20140549



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	167.8243	57.26	-22.02	35.24	43.50	-8.26	QP			
2	360.4476	55.65	-15.92	39.73	46.00	-6.27	QP			
3	408.9460	56.06	-15.48	40.58	46.00	-5.42	QP			



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Site: 1# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: RICKY #1094

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: MP4

Mode: FM 88MHz

Model: ID2450

Manufacturer: NATURAL SOUND

Polarization:Vertical

Power Source: DC 3.7V

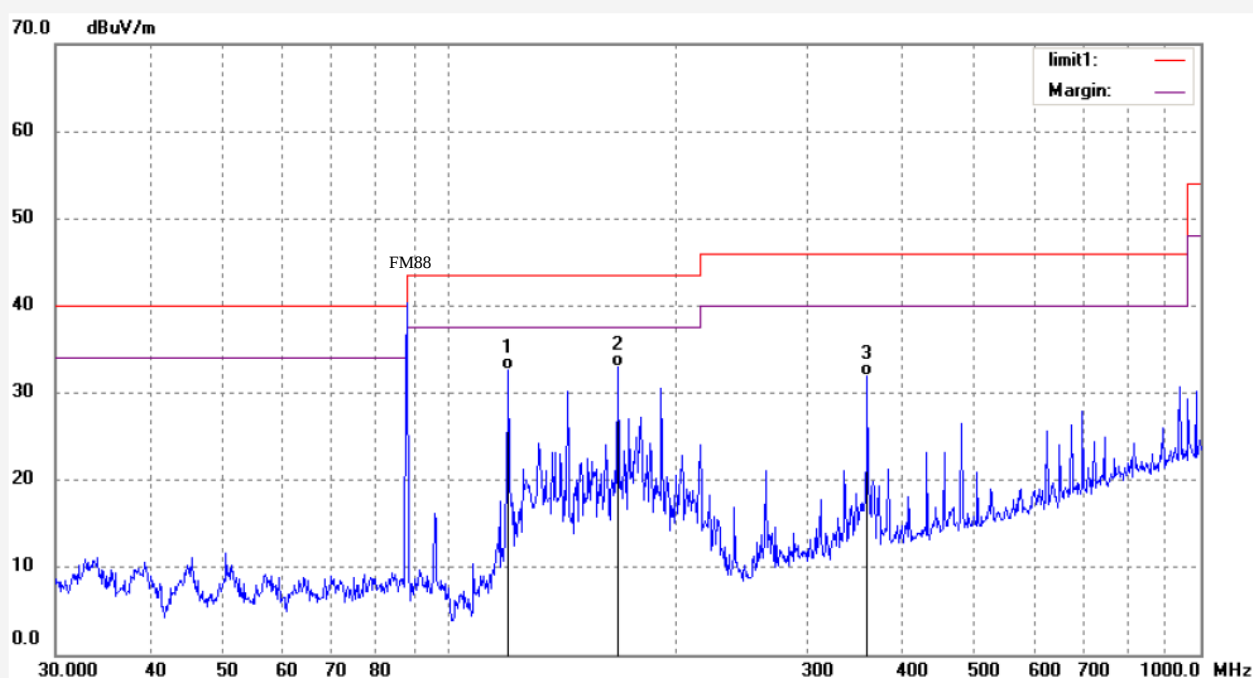
Date: 2014/04/15

Time: 13:58:25

Engineer Signature: Ricky

Distance: 3m

Note: Report No.:ATE20140549



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	119.8556	55.09	-22.52	32.57	43.50	-10.93	QP			
2	167.8243	55.02	-22.02	33.00	43.50	-10.50	QP			
3	360.4476	47.93	-15.92	32.01	46.00	-13.99	QP			



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Site: 1# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: RICKY #1095

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: MP4

Mode: FM 98MHz

Model: ID2450

Manufacturer: NATURAL SOUND

Polarization:Vertical

Power Source: DC 3.7V

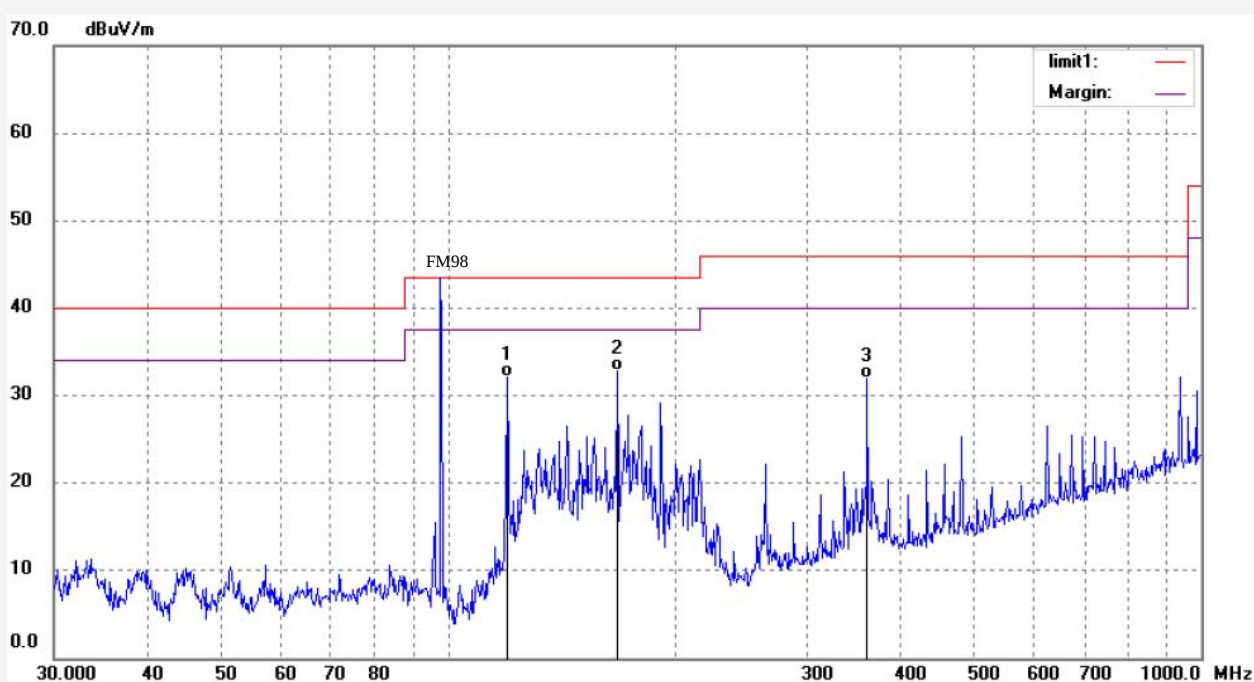
Date: 2014/04/15

Time: 13:59:39

Engineer Signature: Ricky

Distance: 3m

Note: Report No.:ATE20140549



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	119.8556	54.58	-22.52	32.06	43.50	-11.44	QP			
2	167.8243	54.84	-22.02	32.82	43.50	-10.68	QP			
3	360.4476	47.78	-15.92	31.86	46.00	-14.14	QP			



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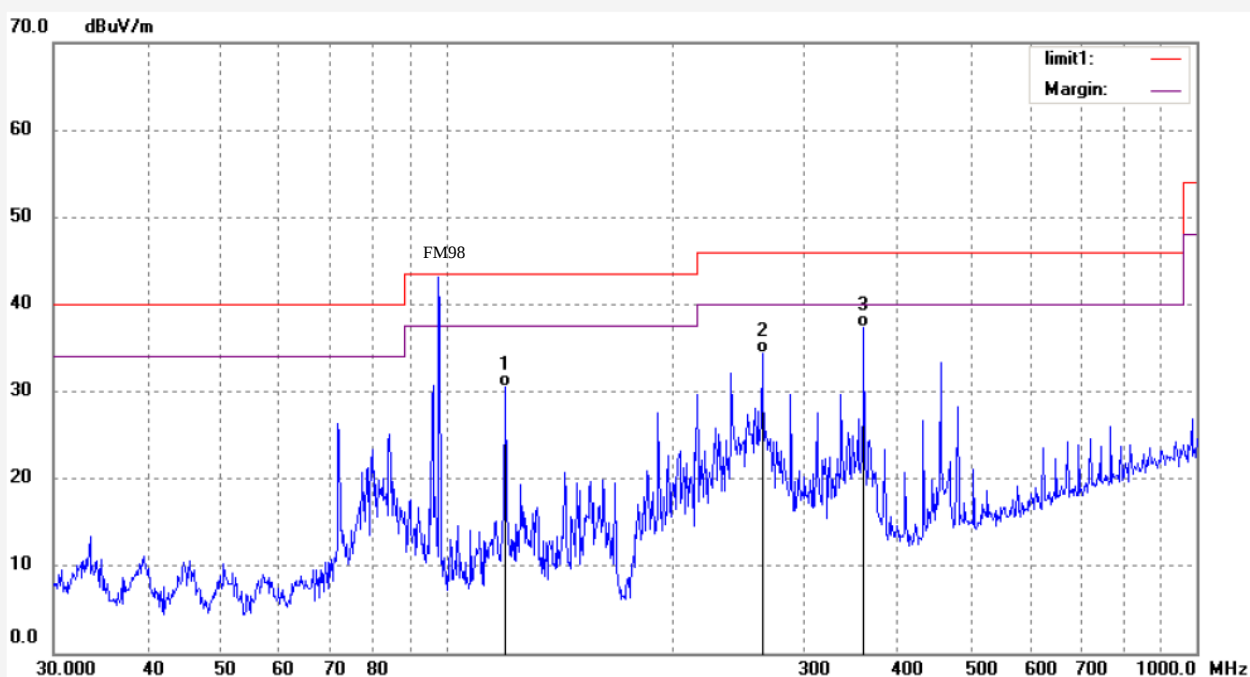
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: RICKY #1096
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: MP4
Mode: FM 98MHz
Model: ID2450
Manufacturer: NATURAL SOUND

Polarization: Horizontal
Power Source: DC 3.7V
Date: 2014/04/15
Time: 14:01:00
Engineer Signature: Ricky
Distance: 3m

Note: Report No.:ATE20140549





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F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
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Site: 1# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: RICKY #1097

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: MP4

Mode: FM 108MHz

Model: ID2450

Manufacturer: NATURAL SOUND

Polarization: Horizontal

Power Source: DC 3.7V

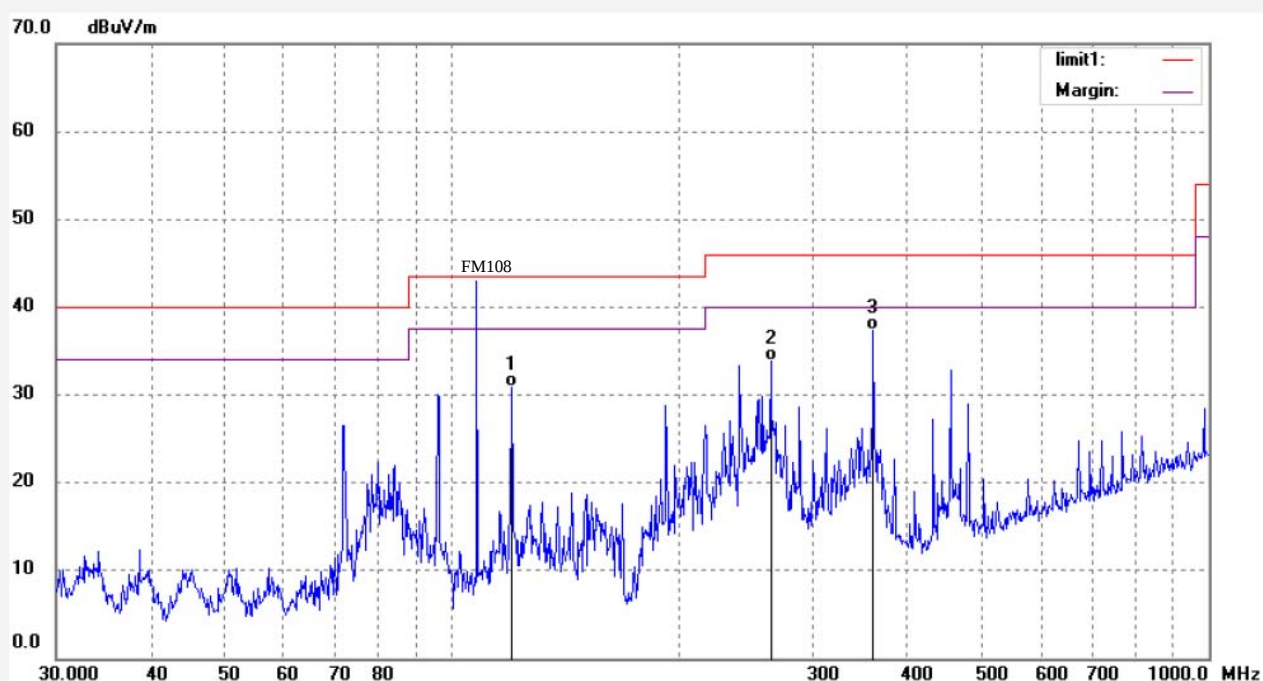
Date: 2014/04/15

Time: 14:03:33

Engineer Signature: Ricky

Distance: 3m

Note: Report No.:ATE20140549



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	119.8556	53.34	-22.52	30.82	43.50	-12.68	QP			
2	263.8190	52.79	-18.92	33.87	46.00	-12.13	QP			
3	360.4476	53.32	-15.92	37.40	46.00	-8.60	QP			



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Site: 1# Chamber

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Job No.: RICKY #1098

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: MP4

Mode: FM 108MHz

Model: ID2450

Manufacturer: NATURAL SOUND

Polarization:Vertical

Power Source: DC 3.7V

Date: 2014/04/15

Time: 14:06:23

Engineer Signature: Ricky

Distance: 3m

Note: Report No.:ATE20140549

