

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

MP4
Model No.: ID4308, MP4316MO

FCC ID: PWK-ID4308

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
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Report Number : ATE20130589
Date of Test : April 9-19, 2013
Date of Report : April 19, 2013

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Test Report Certification

Applicant : HONG KONG NATURAL SOUND ELECTRONICS LIMITED
Manufacturer : Shenzhen Natural Sound Electronics Co., Ltd.
EUT Description : MP4
(A) MODEL NO.: ID4308, MP4316MO
(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 : April 9-19, 2013

Prepared by : Apple Lv
(Apple Lv, Engineer)

Approved & Authorized Signer : Sean Liu
(Sean Liu, Manager)

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

EUT	:	MP4
Model Number	:	ID4308, MP4316MO (Note: These samples are same except for the appearance color is difference. So we prepare the ID4308 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	:	Shenzhen Natural Sound Electronics Co., Ltd.
Address	:	4 th Building, Xinyuan Industrial Zone, Gushu Village, Bao'an District, Shenzhen, China
Date of sample received	:	April 9, 2013
Date of Test	:	April 9-19, 2013

1.2. Accessory and Auxiliary Equipment

1.2.1. PC

Notebook PC : Manufacturer: SONY
M/N: PCG-663P
S/N: 28123170 7202526

1.2.2. LCD Colour TV

LCD Colour TV : Manufacturer: SHARP
M/N: LCD-19A33-BK
Serial No.: 709913440

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 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

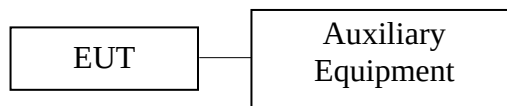
3. OPERATION OF EUT DURING TESTING

3.1.Operating Mode

The modes are used:

- 1) Playing
- 2) Playing with AV OUT
- 3) Playing with HDMI
- 4) Camera with recording
- 5) Transfer data & Charging

3.2.Configuration and peripherals



(EUT: MP4)

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

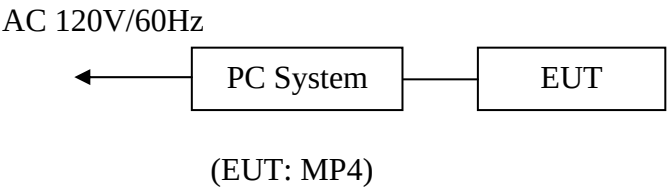
5. CONDUCTED EMISSION FOR FCC PART 15 SECTION

15.107(A)

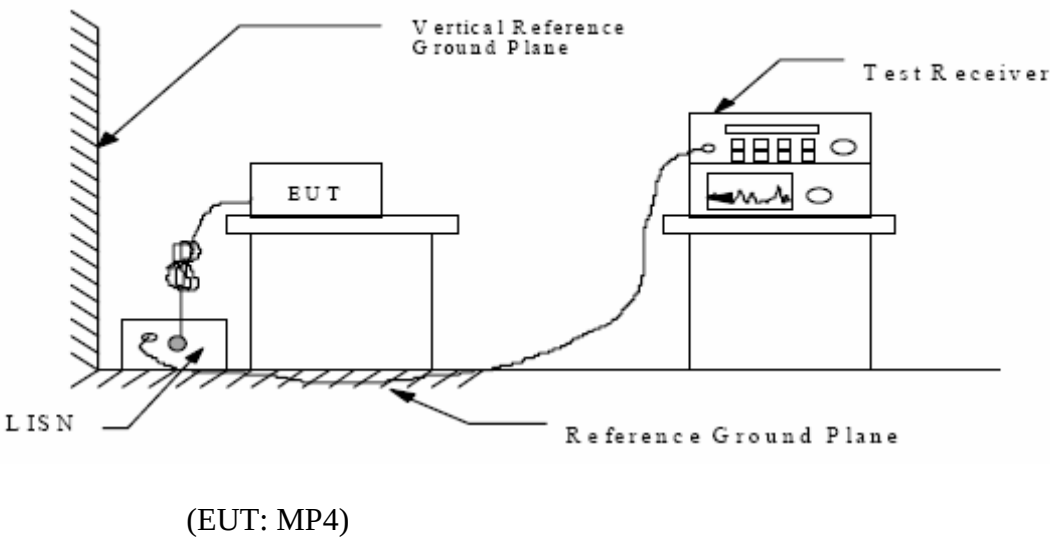
5.1. Block Diagram of Test Setup

5.1.1. Block diagram of connection between the EUT and simulators

5.1.1.1. For Transfer data & Charging



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 : ID4308
 Serial Number : N/A
 Manufacturer : Shenzhen Natural Sound Electronics 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 & Charging) 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:	April 12, 2013	Temperature:	25°C
EUT:	MP4	Humidity:	50%
Model No.:	ID4308	Power Supply:	AC 120V/60Hz
Test Mode:	Transfer data & Charging	Test Engineer:	PEI

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.150600	51.90	11.5	66	14.1	QP	L1	GND
0.492876	40.10	12.6	56	16.0	QP	L1	GND
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.494848	35.50	12.6	46	10.6	AV	L1	GND
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.151202	51.50	11.5	66	14.4	QP	N	GND
0.492876	40.20	12.6	56	15.9	QP	N	GND
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.496827	36.10	12.6	46	10.0	AV	N	GND

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

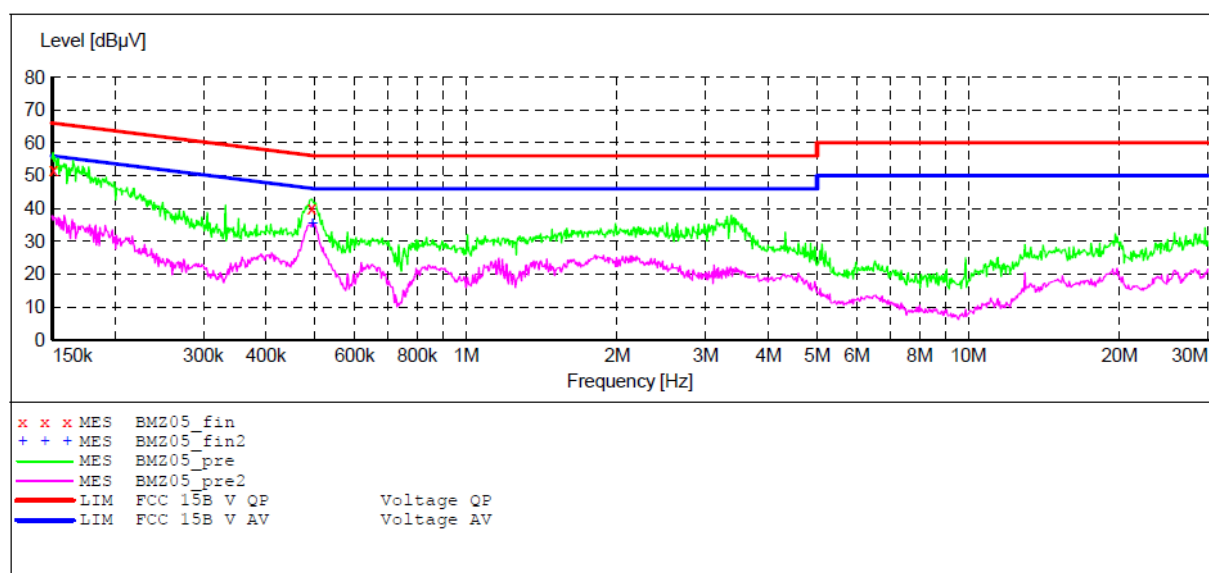
ACCURATE TECHNOLOGY CO.,LTD**CONDUCTED EMISSION STANDARD FCC PART 15B**

EUT: MP4 M/N:ID4308
 Manufacturer: Natural Sound
 Operating Condition: Transfer data & Charging
 Test Site: 1#Shielding Room
 Operator: Star
 Test Specification: L 120V/60Hz
 Comment: Report No.:ATE20130589
 Start of Test: 4/12/2013 / 5:58:34PM

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: "BMZ05_fin"**

4/12/2013 6:01PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.150600	51.90	11.5	66	14.1	QP	L1	GND
0.492876	40.10	12.6	56	16.0	QP	L1	GND

MEASUREMENT RESULT: "BMZ05_fin2"

4/12/2013 6:01PM

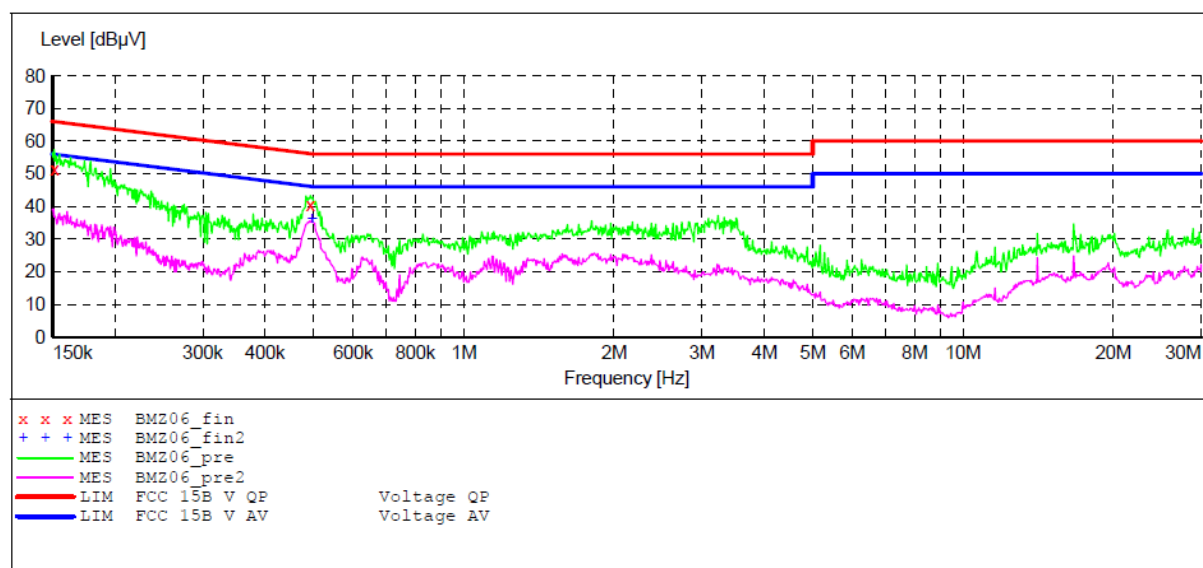
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.494848	35.50	12.6	46	10.6	AV	L1	GND

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

EUT: MP4 M/N:ID4308
 Manufacturer: Natural Sound
 Operating Condition: Transfer data & Charging
 Test Site: 1#Shielding Room
 Operator: Star
 Test Specification: N 120V/60Hz
 Comment: Report No.:ATE20130589
 Start of Test: 4/12/2013 / 6:01:39PM

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: "BMZ06_fin"**

4/12/2013 6:03PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.151202	51.50	11.5	66	14.4	QP	N	GND
0.492876	40.20	12.6	56	15.9	QP	N	GND

MEASUREMENT RESULT: "BMZ06_fin2"

4/12/2013 6:03PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.496827	36.10	12.6	46	10.0	AV	N	GND

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

6.1. Block Diagram of Test Setup

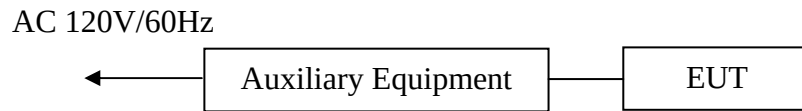
6.1.1. Block diagram of connection between the EUT and simulators

6.1.1.1. For playing, Camera with recording



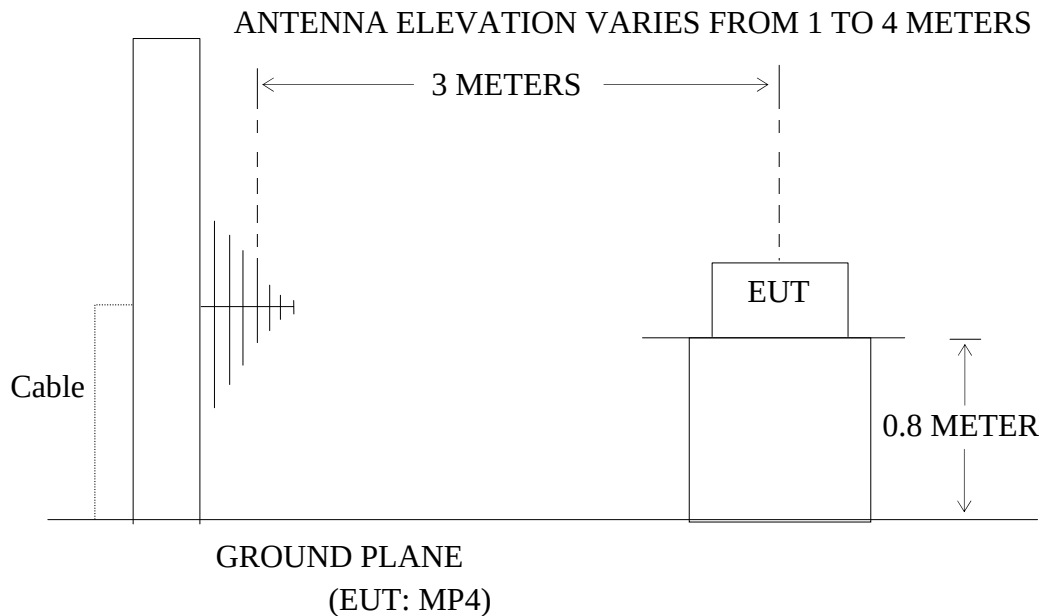
(EUT: MP4)

6.1.1.2. For Playing with AV OUT, Playing with HDMI, Transfer data & Charging



(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 : ID4308
 Serial Number : N/A
 Manufacturer : Shenzhen Natural Sound Electronics 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, Playing with AV OUT, Playing with HDMI, Camera with recording, Transfer data & Charging) 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.

Date of Test:	April 11, 2013	Temperature:	25°C
EUT:	MP4	Humidity:	50%
Model No.:	ID4308	Power Supply:	DC 3.7V
Test Mode:	Playing	Test Engineer:	PEI

Frequency: 30-1000MHz								
Polarization								
Horizontal	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	82.5257	51.99	-13.95	38.04	40.00	-1.96	QP
	2	155.3305	56.28	-15.06	41.22	43.50	-2.28	QP
	3	362.2479	51.26	-7.59	43.67	46.00	-2.33	QP
Vertical	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	82.5257	47.78	-13.95	33.83	40.00	-6.17	QP
	2	160.3209	53.25	-14.54	38.71	43.50	-4.79	QP
	3	342.4453	48.47	-7.98	40.49	46.00	-5.51	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:

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

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

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

Date of Test:	<u>April 11, 2013</u>	Temperature:	<u>25°C</u>
EUT:	<u>MP4</u>	Humidity:	<u>50%</u>
Model No.:	<u>ID4308</u>	Power Supply:	<u>DC 3.7V</u>
Test Mode:	<u>Playing with AV OUT</u>	Test Engineer:	<u>PEI</u>

Frequency: 30-1000MHz								
Polarization								
Horizontal	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	163.7366	56.40	-14.49	41.91	43.50	-1.59	QP
	2	359.7114	52.52	-7.61	44.91	46.00	-1.09	QP
	3	893.6557	42.71	1.27	43.98	46.00	-2.02	QP
Vertical	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	36.6520	46.35	-11.79	34.56	40.00	-5.44	QP
	2	122.7493	55.36	-13.46	41.90	43.50	-1.60	QP
	3	359.7114	52.23	-7.61	44.62	46.00	-1.38	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:

Result = Reading + 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

Date of Test:	<u>April 11, 2013</u>	Temperature:	<u>25°C</u>
EUT:	<u>MP4</u>	Humidity:	<u>50%</u>
Model No.:	<u>ID4308</u>	Power Supply:	<u>DC 3.7V</u>
Test Mode:	<u>Playing with HDMI</u>	Test Engineer:	<u>PEI</u>

Frequency: 30-1000MHz								
Polarization								
Horizontal	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	295.4623	53.43	-9.37	44.06	46.00	-1.94	QP
	2	367.3752	51.05	-7.54	43.51	46.00	-2.49	QP
	3	893.6557	42.32	1.27	43.59	46.00	-2.41	QP
Vertical	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	35.6362	46.33	-11.57	34.76	40.00	-5.24	QP
	2	77.4680	52.19	-15.15	37.04	40.00	-2.96	QP
	3	294.4259	53.98	-9.40	44.58	46.00	-1.42	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:

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

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

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

Date of Test:	<u>April 11, 2013</u>	Temperature:	<u>25°C</u>
EUT:	<u>MP4</u>	Humidity:	<u>50%</u>
Model No.:	<u>ID4308</u>	Power Supply:	<u>DC 3.7V</u>
Test Mode:	<u>Camera with recording</u>	Test Engineer:	<u>PEI</u>

Frequency: 30-1000MHz								
Polarization								
Horizontal	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	77.1962	53.30	-15.21	38.09	40.00	-1.91	QP
	2	170.1887	55.86	-13.68	42.18	43.50	-1.32	QP
	3	180.6640	54.19	-13.38	40.81	43.50	-2.69	QP
Vertical	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	160.3208	55.31	-14.54	40.77	43.50	-2.73	QP
	2	170.1887	54.65	-13.68	40.97	43.50	-2.53	QP
	3	253.1401	48.40	-10.77	37.63	46.00	-8.37	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:

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

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

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

Date of Test: April 11, 2013 Temperature: 25°C
 EUT: MP4 Humidity: 50%
 Model No.: ID4308 Power Supply: DC 5V
 Transfer data &
 Test Mode: Charging Test Engineer: PEI

Frequency: 30-1000MHz								
Polarization								
Horizontal	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	49.0626	48.90	-12.61	36.29	40.00	-3.71	QP
	2	159.1982	56.80	-14.64	42.16	43.50	-1.34	QP
	3	240.9894	55.36	-10.83	44.53	46.00	-1.47	QP
Vertical	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	98.7215	51.88	-12.30	39.58	43.50	-3.92	QP
	2	159.1982	56.14	-14.64	41.50	43.50	-2.00	QP
	3	240.9894	54.56	-10.83	43.73	46.00	-2.27	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:

Result = Reading + 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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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: STAR #4087

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: MP4

Mode: Playing

Model: ID4308

Manufacturer: Natural Sound

Polarization: Horizontal

Power Source: DC 3.7V

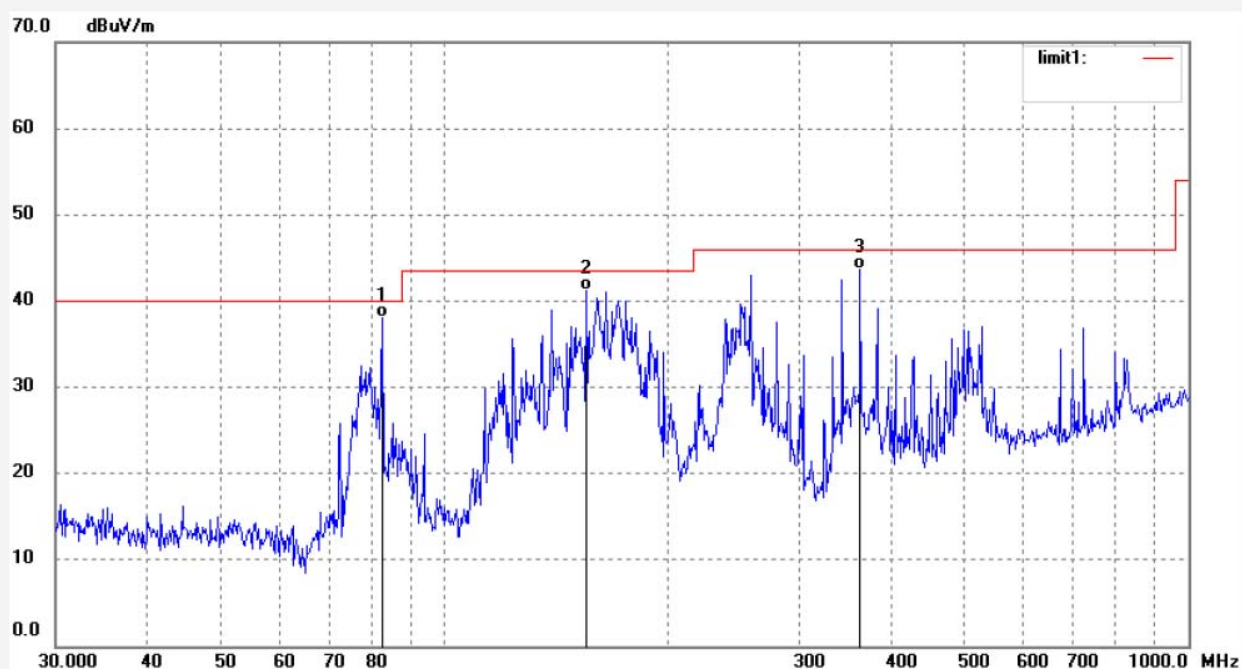
Date: 2013-4-11

Time: 18:53:14

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20130589



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	82.5257	51.99	-13.95	38.04	40.00	-1.96	QP			
2	155.3305	56.28	-15.06	41.22	43.50	-2.28	QP			
3	362.2479	51.26	-7.59	43.67	46.00	-2.33	QP			



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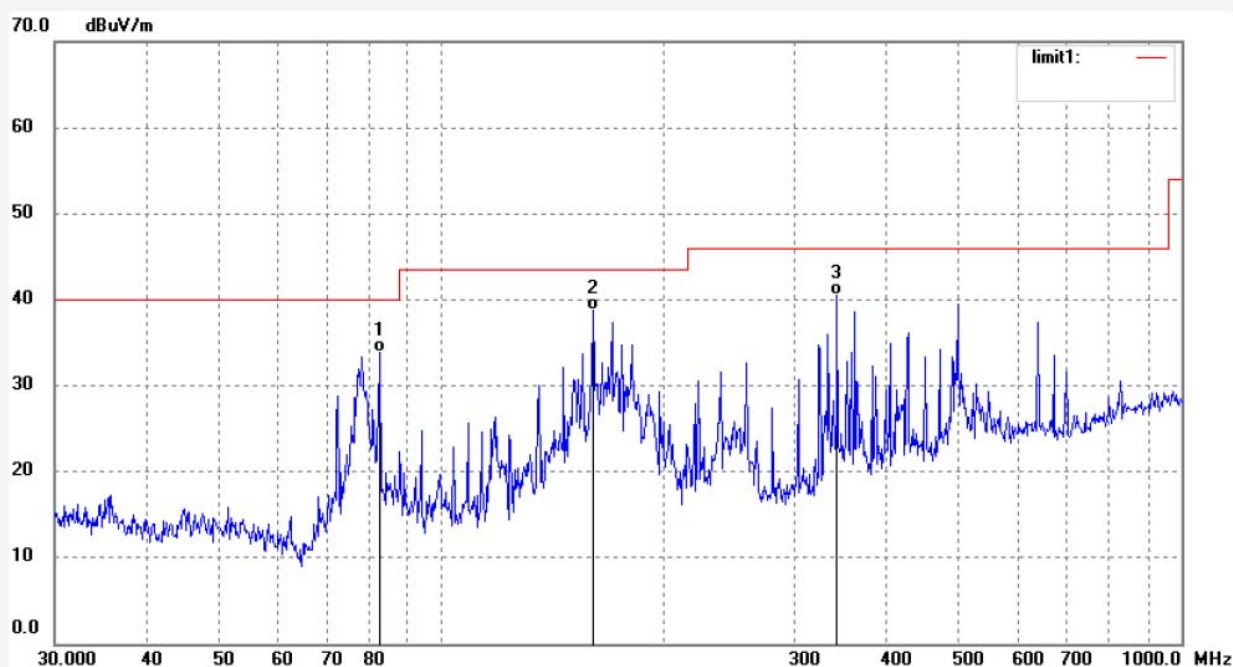
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: STAR #4086
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: MP4
Mode: Playing
Model: ID4308
Manufacturer: Natural Sound

Polarization: Vertical
Power Source: DC 3.7V
Date: 2013-4-11
Time: 18:52:20
Engineer Signature:
Distance: 3m

Note: Report No.:ATE20130589



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	82.5257	47.78	-13.95	33.83	40.00	-6.17	QP			
2	160.3209	53.25	-14.54	38.71	43.50	-4.79	QP			
3	342.4453	48.47	-7.98	40.49	46.00	-5.51	QP			



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Site: 2# Chamber

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Fax:+86-0755-26503396

Job No.: STAR #4088

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: MP4

Mode: Playing with AV OUT

Model: ID4308

Manufacturer: Natural Sound

Polarization: Horizontal

Power Source: DC 3.7V

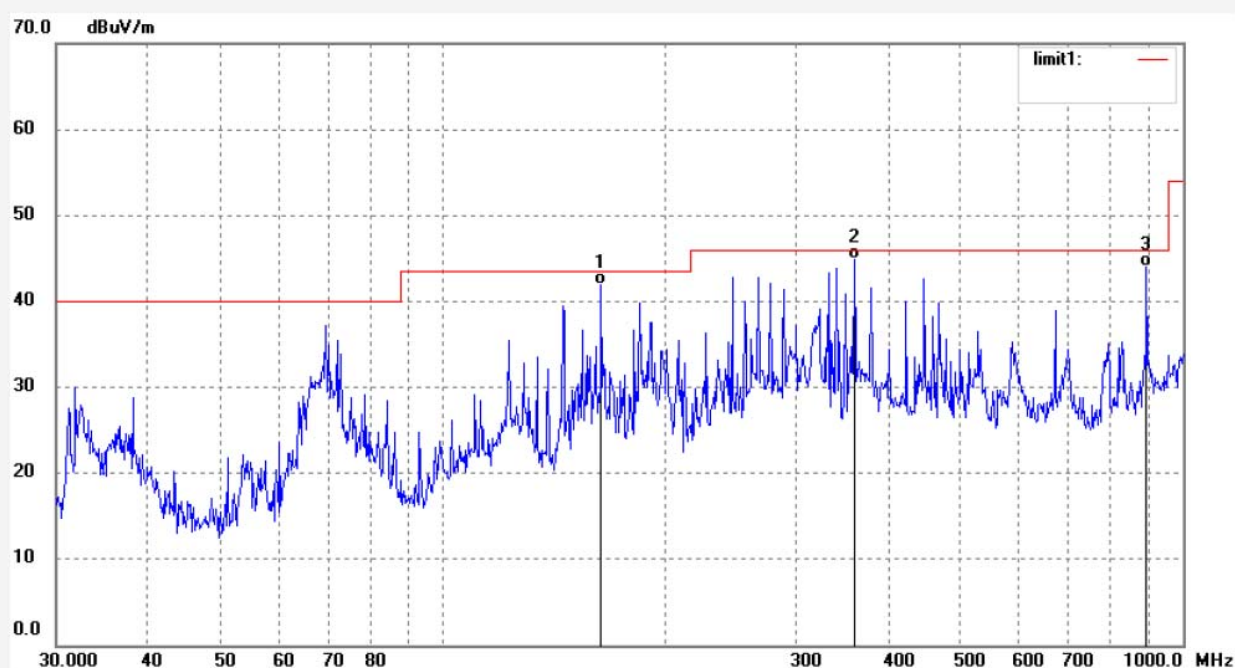
Date: 2013-4-11

Time: 18:56:42

Engineer Signature:

Distance: 3m

Note: Report No.: ATE20130589



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	163.7366	56.40	-14.49	41.91	43.50	-1.59	QP			
2	359.7114	52.52	-7.61	44.91	46.00	-1.09	QP			
3	893.6557	42.71	1.27	43.98	46.00	-2.02	QP			



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Site: 2# Chamber

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Job No.: STAR #4089

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: MP4

Mode: Playing with AV OUT

Model: ID4308

Manufacturer: Natural Sound

Polarization: Vertical

Power Source: DC 3.7V

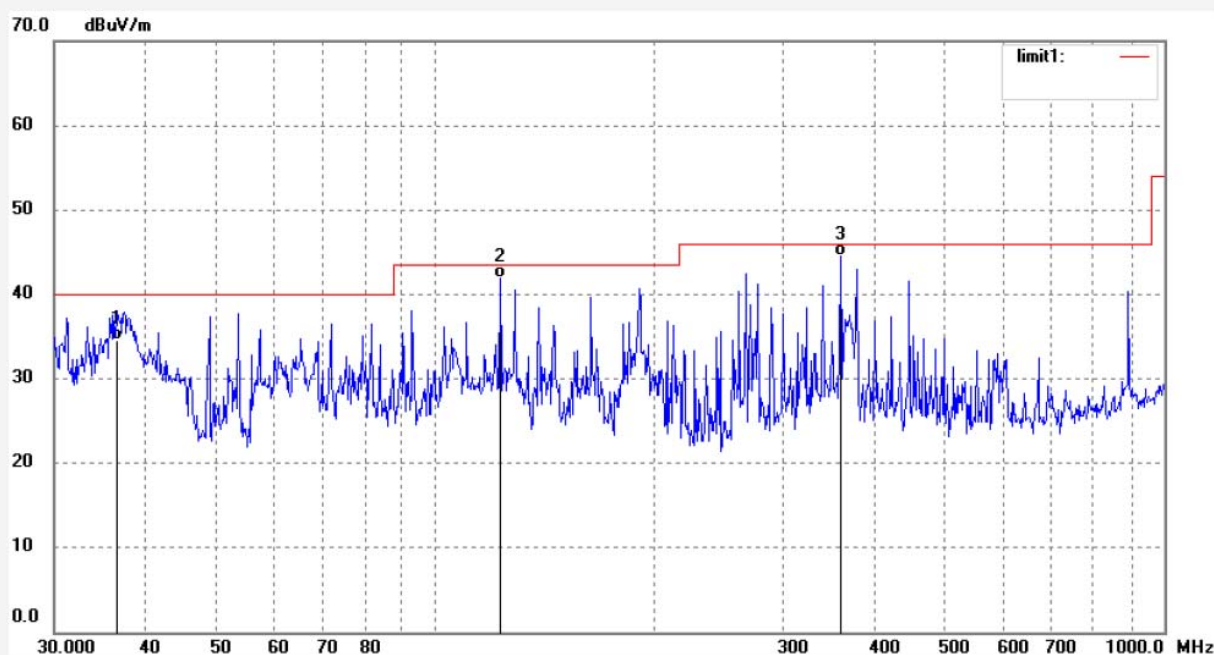
Date: 2013-4-11

Time: 18:57:00

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20130589



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	36.6520	46.35	-11.79	34.56	40.00	-5.44	QP			
2	122.7493	55.36	-13.46	41.90	43.50	-1.60	QP			
3	359.7114	52.23	-7.61	44.62	46.00	-1.38	QP			



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Site: 2# Chamber

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Job No.: STAR #4091

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: MP4

Mode: Playing with HDMI

Model: ID4308

Manufacturer: Natural Sound

Polarization: Horizontal

Power Source: DC 3.7V

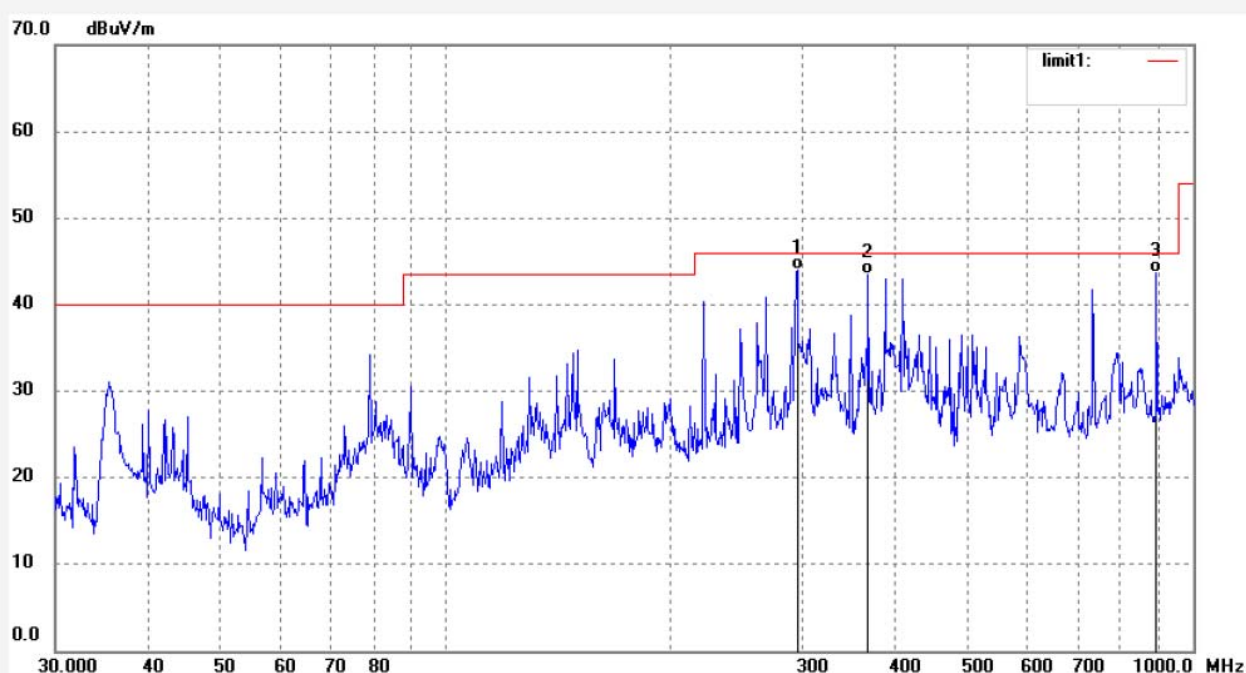
Date: 2013-4-11

Time: 19:00:44

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20130589



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	295.4623	53.43	-9.37	44.06	46.00	-1.94	QP			
2	367.3752	51.05	-7.54	43.51	46.00	-2.49	QP			
3	893.6557	42.32	1.27	43.59	46.00	-2.41	QP			



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Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: STAR #4090

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: MP4

Mode: Playing with HDMI

Model: ID4308

Manufacturer: Natural Sound

Polarization: Vertical

Power Source: DC 3.7V

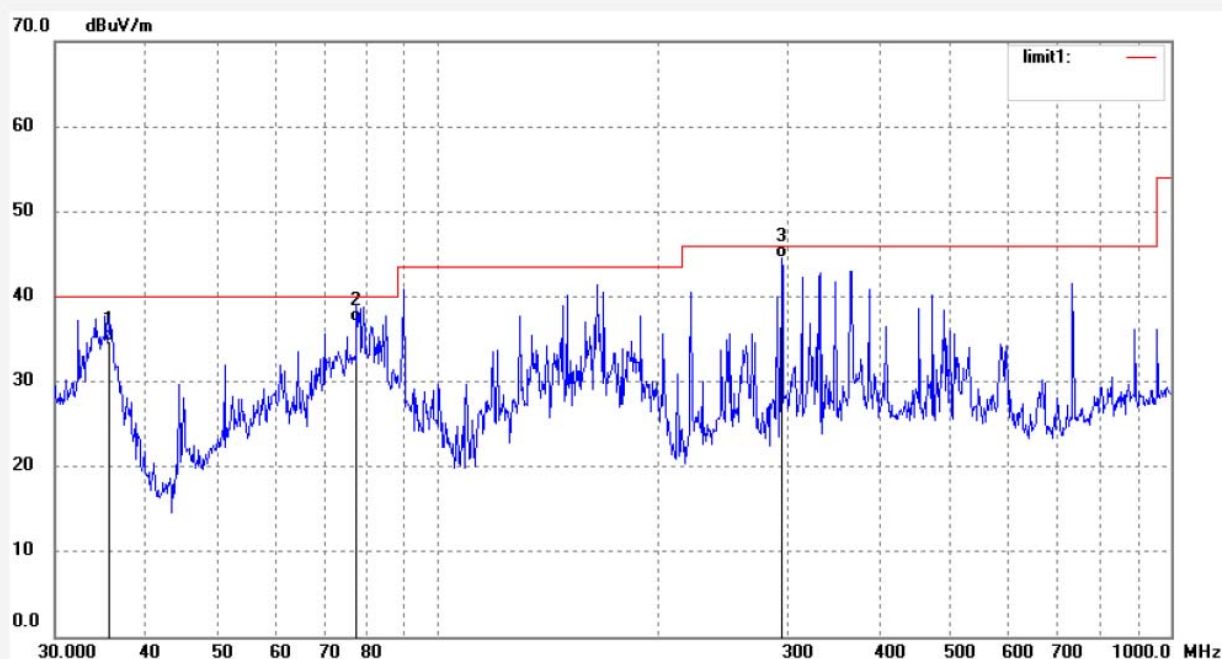
Date: 2013-4-11

Time: 19:00:20

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20130589



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	35.6362	46.33	-11.57	34.76	40.00	-5.24	QP			
2	77.4680	52.19	-15.15	37.04	40.00	-2.96	QP			
3	294.4259	53.98	-9.40	44.58	46.00	-1.42	QP			



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Site: 2# Chamber
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Job No.: STAR #4092

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: MP4

Mode: Camera with recording

Model: ID4308

Manufacturer: Natural Sound

Polarization: Horizontal

Power Source: DC 3.7V

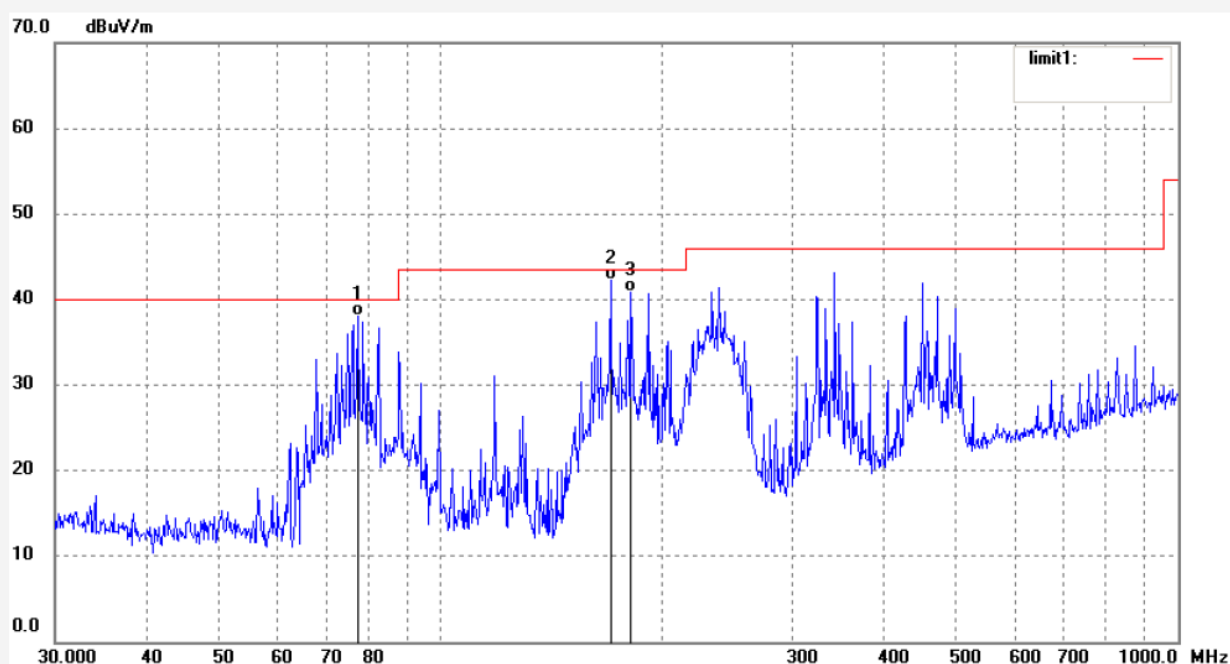
Date: 2013-4-11

Time: 19:03:21

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20130589



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	77.1962	53.30	-15.21	38.09	40.00	-1.91	QP			
2	170.1887	55.86	-13.68	42.18	43.50	-1.32	QP			
3	180.6640	54.19	-13.38	40.81	43.50	-2.69	QP			



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Job No.: STAR #4093

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: MP4

Mode: Camera with recording

Model: ID4308

Manufacturer: Natural Sound

Polarization: Vertical

Power Source: DC 3.7V

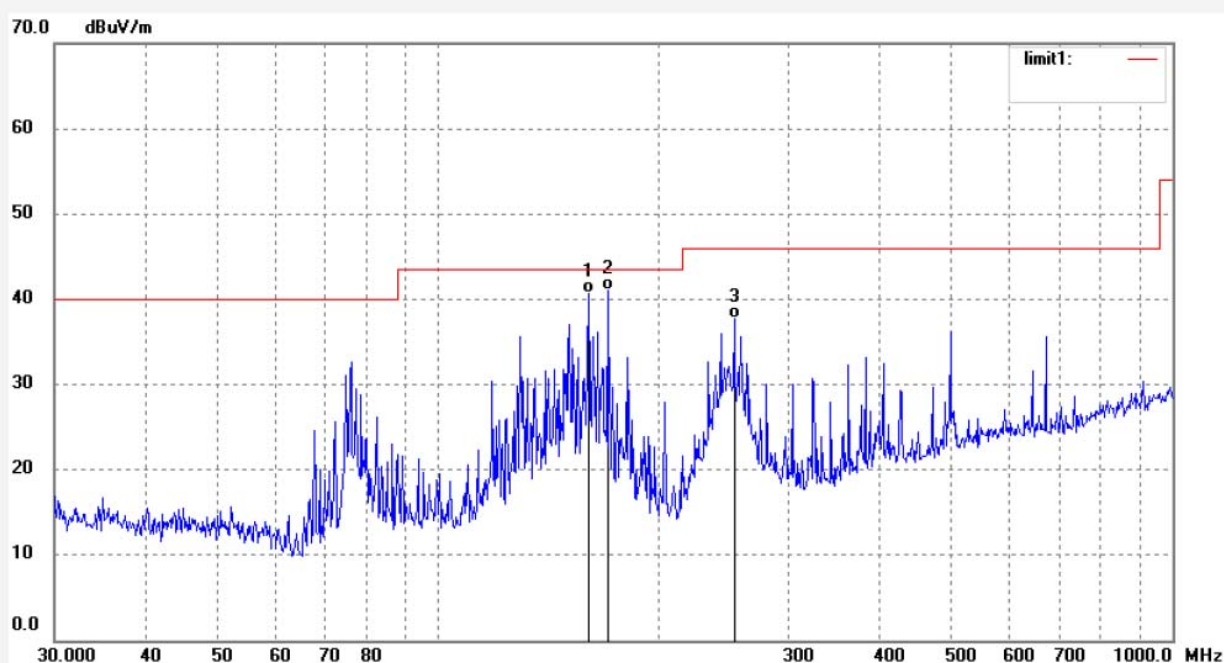
Date: 2013-4-11

Time: 19:04:10

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20130589



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	160.3208	55.31	-14.54	40.77	43.50	-2.73	QP			
2	170.1887	54.65	-13.68	40.97	43.50	-2.53	QP			
3	253.1401	48.40	-10.77	37.63	46.00	-8.37	QP			



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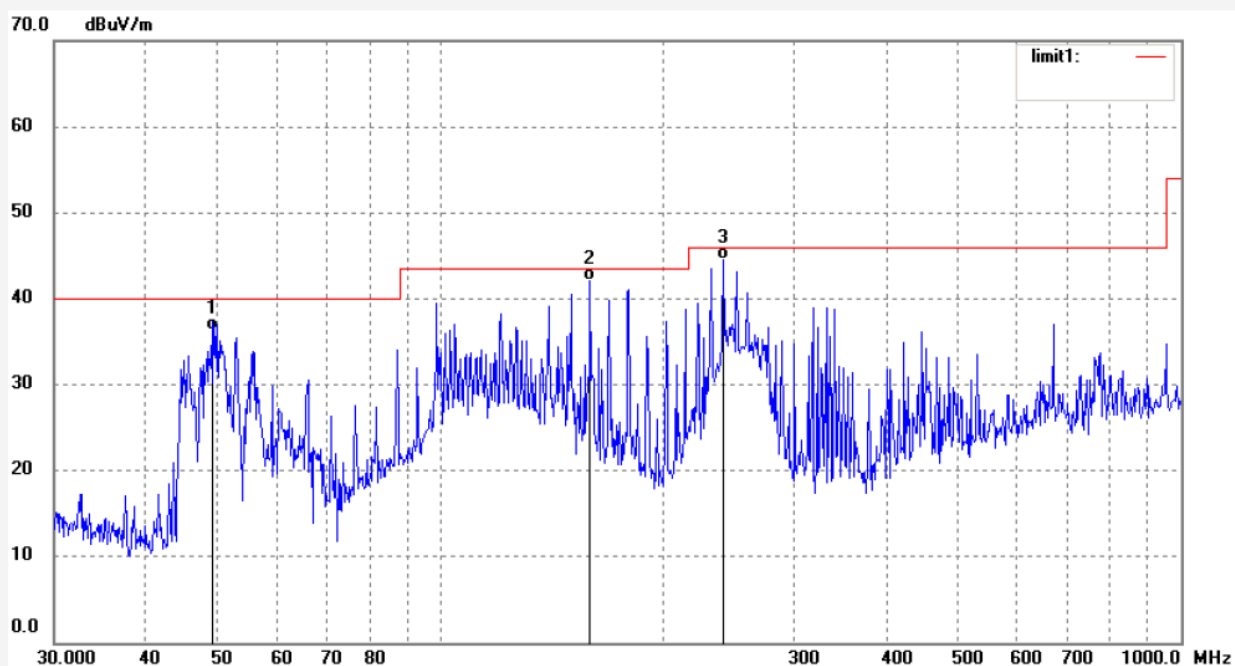
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber
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Job No.: STAR #4095
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: MP4
Mode: Trnasfer data & Charging
Model: ID4308
Manufacturer: Natural Sound

Polarization: Horizontal
Power Source: DC 5V
Date: 2013-4-11
Time: 19:09:02
Engineer Signature:
Distance: 3m

Note: Report No.:ATE20130589



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	49.0626	48.90	-12.61	36.29	40.00	-3.71	QP			
2	159.1982	56.80	-14.64	42.16	43.50	-1.34	QP			
3	240.9894	55.36	-10.83	44.53	46.00	-1.47	QP			



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Job No.: STAR #4094

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: MP4

Mode: Transfer data & Charging

Model: ID4308

Manufacturer: Natural Sound

Polarization: Vertical

Power Source: DC 5V

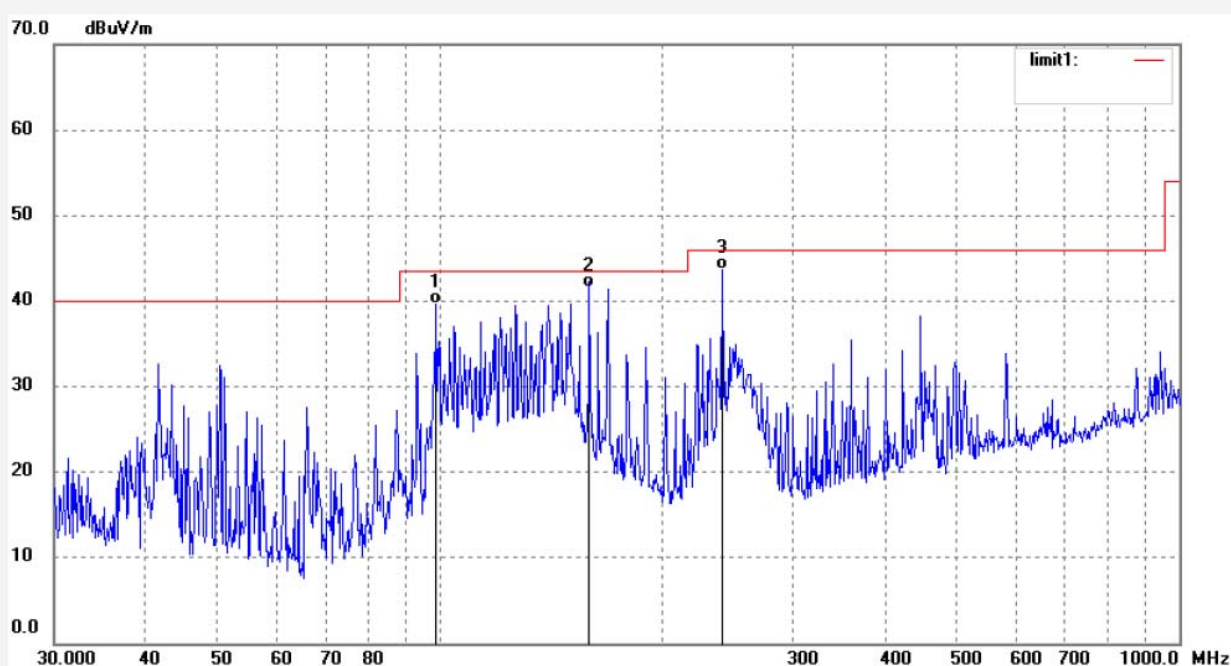
Date: 2013-4-11

Time: 19:08:36

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20130589



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	98.7215	51.88	-12.30	39.58	43.50	-3.92	QP			
2	159.1982	56.14	-14.64	41.50	43.50	-2.00	QP			
3	240.9894	54.56	-10.83	43.73	46.00	-2.27	QP			