

FCC CERTIFICATION
On Behalf of
Kintech Co., Ltd.

MP3 Player
Model No.: CP3004(KW-CP3904)

FCC ID: BRC-CP3004

Prepared for : Kintech Co., Ltd.
Address : 1F-5F, Bldg 22, Chen Tian Industrial Zone, Xi Xiang, Bao
An District, Shenzhen, Guang Dong, China

Prepared by : Accurate Technology Co., Ltd.
Address : F1, Bldg. A, Changyuan New Material Port, Keyuan Rd.
Science & Industry Park, Nanshan, Shenzhen, Guangdong
P.R. China

Tel: (0755) 26503290
Fax: (0755) 26503396

Report Number : ATE20122076
Date of Test : September 15-October 20, 2012
Date of Report : October 20, 2012

TABLE OF CONTENTS

Description	Page
Test Report Certification	
1. GENERAL INFORMATION	4
1.1. Description of Device (EUT).....	4
1.2. Accessory and Auxiliary Equipment	4
1.3. Description of Test Facility	5
1.4. Measurement Uncertainty	5
2. MEASURING DEVICE AND TEST EQUIPMENT	6
3. SUMMARY OF TEST RESULTS.....	7
4. HARMONICS AND SPURIOUS RADIATED EMISSION AND BAND EDGE FOR FCC PART 15 SECTION 15.239(C)	8
4.1. Block Diagram of Test Setup.....	8
4.2. The Emission Limit for section 15.239(c)	9
4.3. Configuration of EUT on Measurement	9
4.4. Operating Condition of EUT	10
4.5. Test Procedure	10
4.6. The Field Strength of Radiation Emission Measurement Results	11
5. FUNDAMENTAL RADIATED EMISSION FOR FCC PART 15 SECTION 15.239(B)	21
5.1. Block Diagram of Test Setup.....	21
5.2. The Emission Limit For Section 15.239(b)	21
5.3. EUT Configuration on Measurement	22
5.4. Operating Condition of EUT	22
5.5. Test Procedure	22
5.6. The Emission Measurement Result	23
6. OCCUPIED BANDWIDTH FOR FCC PART 15 SECTION 15.239(A).....	32
6.1. The Requirement For Section 15.239(a).....	32
6.2. EUT Configuration on Measurement	32
6.3. Operating Condition of EUT	33
6.4. Test Procedure	33
6.5. Test Result	34
7. TUNING RANGE	35
7.1. The Requirement For Section 15.239	35
7.2. EUT Configuration on Measurement	35
7.3. Operating Condition of EUT	35
7.4. Test Procedure	35
7.5. Test Result	36
8. ANTENNA REQUIREMENT.....	37
8.1. The Requirement	37
8.2. Antenna Construction	37
APPENDIX I (TEST CURVES)	

Test Report Certification

Applicant : Kintech Co., Ltd.
 Manufacturer : Kintech Co., Ltd.
 EUT Description : MP3 Player
 (A) MODEL NO.: CP3004(KW-CP3904)
 (B) SERIAL NO.: N/A
 (C) POWER SUPPLY: DC 12V

Measurement Procedure Used:

FCC Rules and Regulations Part 15 Subpart C Section 15.239 ANSI 63.4: 2009

The device described above is tested by ACCURATE TECHNOLOGY CO. LTD to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart C Section 15.239 limits. The measurement results are contained in this test report and ACCURATE TECHNOLOGY CO. LTD is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of ACCURATE TECHNOLOGY CO. LTD.

Date of Test : September 15-October 20, 2012

Prepared by : Apple Lv
 (Engineer)

Approved & Authorized Signer : Heunb
 (Manager)

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

EUT	:	MP3 Player
Model Number	:	CP3004(KW-CP3904)
Trade Name	:	Titan or Kinwei
Power Supply	:	DC 12V
Operate Frequency	:	88.1-107.9MHz (step 0.2MHz)
Applicant	:	Kintech Co., Ltd.
Address	:	1F-5F, Bldg 22, Chen Tian Industrial Zone, Xi Xiang, Bao An District, Shenzhen, Guang Dong, China
Manufacturer	:	Kintech Co., Ltd.
Address	:	1F-5F, Bldg 22, Chen Tian Industrial Zone, Xi Xiang, Bao An District, Shenzhen, Guang Dong, China
Date of sample received	:	October 8, 2012
Date of Test	:	September 15-October 20, 2012

1.2. Accessory and Auxiliary Equipment

USB Memory Disk (CE, FCC: DOC)	:	Manufacturer: Smartocean M/N: 3611(256M)
Memory Card	:	Manufacturer: Kingston Capacity: 1G
iPod	:	Manufacturer: Apple Model No.: A1199 S/N: 7M6369W3VQ5

1.3.Description of Test Facility

EMC Lab : Accredited by TUV Rheinland Shenzhen

Listed by FCC
The Registration Number is 752051

Listed by Industry Canada
The Registration Number is 5077A-2

Accredited by China National Accreditation Committee
for Laboratories
The Certificate Registration Number is L3193

Name of Firm : ACCURATE TECHNOLOGY CO. LTD

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

1.4.Measurement Uncertainty

Conducted Emission Expanded Uncertainty = 2.23dB, k=2

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

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

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

2. MEASURING DEVICE AND TEST EQUIPMENT

Table 1: List of Test and Measurement Equipment

Kind of equipment	Manufacturer	Type	S/N	Calibrated dates	Calibrated until
EMI Test Receiver	Rohde&Schwarz	ESCS30	100307	Jan. 8, 2012	Jan. 7, 2013
EMI Test Receiver	Rohde&Schwarz	ESPI3	101526/003	Jan. 8, 2012	Jan. 7, 2013
Spectrum Analyzer	Agilent	E7405A	MY45115511	Jan. 8, 2012	Jan. 7, 2013
Pre-Amplifier	Rohde&Schwarz	CBLU118354 0-01	3791	Jan. 8, 2012	Jan. 7, 2013
Loop Antenna	Schwarzbeck	FMZB1516	1516131	Jan. 8, 2012	Jan. 7, 2013
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	Jan. 8, 2012	Jan. 7, 2013
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	Jan. 8, 2012	Jan. 7, 2013
Horn Antenna	Schwarzbeck	BBHA9170	9170-359	Jan. 8, 2012	Jan. 7, 2013
LISN	Rohde&Schwarz	ESH3-Z5	100305	Jan. 8, 2012	Jan. 7, 2013
LISN	Schwarzbeck	NSLK8126	8126431	Jan. 8, 2012	Jan. 7, 2013
Battery	CSB	F2	HR1234W	--	--

3. SUMMARY OF TEST RESULTS

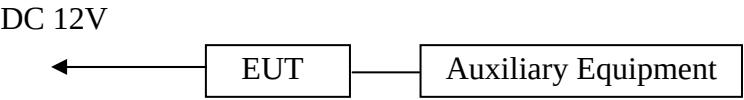
FCC Rules	Description of Test	Result
Section 15.207	Conducted Emission	N/A
Section 15.239(c) Section 15.209	Harmonics and Spurious Radiated Emission and Band Edge	Compliant
Section 15.239(b)	Fundamental Radiated Emission	Compliant
Section 15.239(a)	Occupied Bandwidth	Compliant
Section 15.239	Tuning Range	Compliant
Section 15.203	Antenna Requirement	Compliant

Remark: “N/A” means “Not applicable”.

4. HARMONICS AND SPURIOUS RADIATED EMISSION AND BAND EDGE FOR FCC PART 15 SECTION 15.239(C)

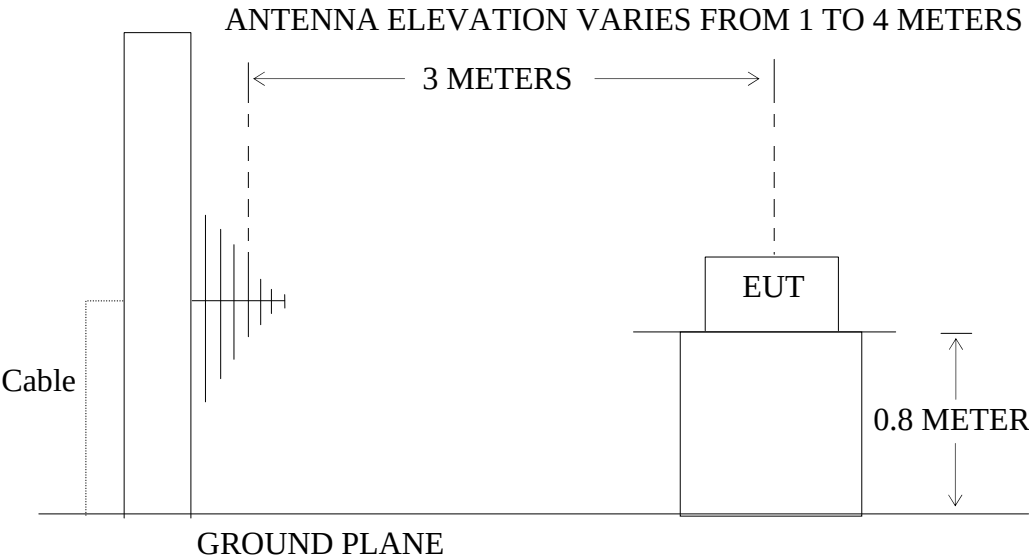
4.1. Block Diagram of Test Setup

4.1.1. Block diagram of connection between the EUT and simulators



(EUT: MP3 Player)

4.1.2. Semi-Anechoic Chamber Test Setup Diagram



(EUT: MP3 Player)

4.2.The Emission Limit for section 15.239(c)

4.2.1. The field strength of any emissions radiated on any frequency outside of the specified 200 kHz band shall not exceed the general radiated emission limits in Section 15.209.

Radiation Emission Measurement Limits According to Section 15.209

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

4.3.Configuration of EUT on Measurement

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

4.3.1.MP3 Player (EUT)

Model Number : CP3004(KW-CP3904)
 Serial Number : N/A
 Manufacturer : Kintech Co., Ltd.

4.4. Operating Condition of EUT

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

4.4.2. Turn on the power of all equipment.

4.4.3. Let the EUT work in TX modes [Connect EUT use Auxiliary Equipment (iPod , USB memory disk and memory card) playing typical audio signal with a 2.5 kHz tone at a level 16 dB higher than that required to produce a frequency deviation of 75 kHz] and measure it. The transmit frequency are 88.1-107.9MHz. We select 88.1M, 98.1M, 107.9MHz TX frequency to transmit.

4.5. Test Procedure

The EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4: 2009 on radiated emission measurement.

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

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

The final measurement for frequencies below 1000MHz is performed with Quasi Peak detector.

4.6.The Field Strength of Radiation Emission Measurement Results

PASS.

The frequency range 30MHz to 1000MHz is investigated.

Date of Test:	September 17, 2012	Temperature:	25°C
EUT:	MP3 Player	Humidity:	50%
Model No.:	CP3004(KW-CP3904)	Power Supply:	DC 12V
Test Mode:	TX 88.1MHz with Line in (Connect to iPod)	Test Engineer:	Bob

Harmonics and Spurious radiation emission

Polarization	Frequency (MHz)	Reading(dBμV/m) QP	Factor Corr.(dB)	Result(dBμV/m) QP	Limits(dBμV/m) QP	Margin(dB) QP
Horizontal	176.2000	28.25	12.98	41.23	43.50	-2.27
Horizontal	264.3000	25.34	18.66	44.00	46.00	-2.00
Horizontal	352.4000	22.58	20.94	43.52	46.00	-2.48
Horizontal	440.5000	19.64	22.85	42.49	46.00	-3.51
Vertical	176.2000	26.78	12.98	39.76	43.50	-3.74
Vertical	264.3000	23.17	18.66	41.83	46.00	-4.17
Vertical	352.4000	22.54	20.94	43.48	46.00	-2.52
Vertical	528.6000	17.39	24.21	41.60	46.00	-4.40

Band edge

Polarization	Frequency (MHz)	Reading(dBμV/m) QP	Factor Corr.(dB)	Result(dBμV/m) QP	Limits(dBμV/m) QP	Margin(dB) QP
Horizontal	87.6931	22.86	13.72	36.58	40.00	-3.42
Horizontal	88.0000	25.21	13.74	38.95	40.00	-1.05
Horizontal	88.2000	24.32	13.75	38.07	43.50	-5.43
Horizontal	88.9728	23.07	13.80	36.87	43.50	-6.63
Vertical	88.6812	12.83	13.72	26.55	40.00	-13.45
Vertical	88.0000	23.24	13.74	36.98	40.00	-3.02
Vertical	88.2000	22.38	13.75	36.13	43.50	-7.37
Vertical	88.8632	13.69	13.80	27.49	43.50	-16.01

Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:
Result = Reading + Corrected Factor
Where Corrected Factor = Antenna Factor + Cable Loss + High Pass Filter Loss – Amplifier Gain
3. The spectral diagrams in appendix I display the measurement of peak values.

Date of Test:	September 17, 2012	Temperature:	25°C
EUT:	MP3 Player	Humidity:	50%
Model No.:	CP3004(KW-CP3904)	Power Supply:	DC 12V
Test Mode:	TX 98.1MHz with Line in (Connect to iPod)	Test Engineer:	Bob

Harmonics and Spurious radiation emission

Polarization	Frequency (MHz)	Reading(dBμV/m) QP	Factor Corr.(dB)	Result(dBμV/m) QP	Limits(dBμV/m) QP	Margin(dB) QP
Horizontal	196.2000	26.54	14.03	40.57	43.50	-2.93
Horizontal	294.3000	25.25	18.60	43.85	46.00	-2.15
Horizontal	392.4000	21.31	21.97	43.28	46.00	-2.72
Horizontal	490.5000	19.39	23.93	43.32	46.00	-2.68
Vertical	196.2000	25.66	14.03	36.69	43.50	-3.81
Vertical	294.3000	24.75	18.60	43.35	46.00	-2.65
Vertical	392.4000	20.12	21.97	42.09	46.00	-3.91
Vertical	490.5000	19.51	23.93	43.44	46.00	-2.56

Band edge

Polarization	Frequency (MHz)	Reading(dBμV/m) QP	Factor Corr.(dB)	Result(dBμV/m) QP	Limits(dBμV/m) QP	Margin(dB) QP
Horizontal	97.5437	14.32	14.45	28.77	43.50	-14.73
Horizontal	98.0000	20.98	14.51	35.49	43.50	-8.01
Horizontal	98.2000	18.69	14.54	33.23	43.50	-10.27
Horizontal	98.6793	13.69	14.60	28.29	43.50	-15.21
Vertical	97.3763	12.98	14.42	27.40	43.50	-16.10
Vertical	98.0000	18.87	14.51	33.37	43.50	-10.12
Vertical	98.2000	14.02	14.54	28.56	43.50	-14.94
Vertical	98.6149	13.89	14.59	28.48	43.50	-15.02

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 in appendix I display the measurement of peak values.

Date of Test:	September 17, 2012	Temperature:	25°C
EUT:	MP3 Player	Humidity:	50%
Model No.:	CP3004(KW-CP3904)	Power Supply:	DC 12V
Test Mode:	TX 107.9MHz with Line in (Connect to iPod)	Test Engineer:	Bob

Harmonics and Spurious radiation emission

Polarization	Frequency (MHz)	Reading(dBμV/m) QP	Factor Corr.(dB)	Result(dBμV/m) QP	Limits(dBμV/m) QP	Margin(dB) QP
Horizontal	215.8000	27.36	14.72	42.08	43.50	-1.42
Horizontal	323.7000	23.75	19.50	43.25	46.00	-2.75
Horizontal	431.6000	20.36	22.96	43.32	46.00	-2.68
Horizontal	539.5000	18.22	24.93	43.15	46.00	-2.85
Vertical	215.8000	25.92	14.72	40.64	43.50	-2.86
Vertical	323.7000	24.36	19.50	43.86	46.00	-2.14
Vertical	431.6000	20.01	22.96	42.97	46.00	-3.03
Vertical	539.5000	18.90	24.93	43.83	46.00	-2.17

Band edge

Polarization	Frequency (MHz)	Reading(dBμV/m) QP	Factor Corr.(dB)	Result(dBμV/m) QP	Limits(dBμV/m) QP	Margin(dB) QP
Horizontal	107.0716	18.63	13.94	32.57	43.50	-10.93
Horizontal	107.8011	24.98	13.95	38.93	43.50	-4.57
Horizontal	108.0053	23.21	13.95	37.16	43.50	-6.34
Horizontal	108.2703	19.21	13.95	33.16	43.50	-10.34
Vertical	107.1550	12.14	13.94	26.08	43.50	-17.42
Vertical	107.8011	21.31	13.95	35.26	43.50	-8.24
Vertical	107.9975	23.68	13.95	37.63	43.50	-5.87
Vertical	108.7376	13.68	13.96	27.64	43.50	-15.86

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 in appendix I display the measurement of peak values.

Date of Test:	September 17, 2012	Temperature:	25°C
EUT:	MP3 Player	Humidity:	50%
Model No.:	CP3004(KW-CP3904)	Power Supply:	DC 12V
Test Mode:	TX 88.1MHz with USB playing (Connect to USB Memory Disk)		
	Test Engineer:	Bob	

Harmonics and Spurious radiation emission

Polarization	Frequency (MHz)	Reading(dBμV/m) QP	Factor Corr.(dB)	Result(dBμV/m) QP	Limits(dBμV/m) QP	Margin(dB) QP
Horizontal	176.2000	28.72	12.98	41.70	43.50	-1.80
Horizontal	264.3000	23.57	18.66	42.23	46.00	-3.77
Horizontal	352.4000	22.18	20.94	43.12	46.00	-2.88
Horizontal	528.6000	19.48	24.21	43.69	46.00	-2.31
Vertical	176.2000	27.51	12.98	40.49	43.50	-3.01
Vertical	264.3000	23.54	18.66	42.20	46.00	-3.80
Vertical	352.4000	23.91	20.94	44.85	46.00	-1.15
Vertical	440.5000	20.48	22.85	43.33	46.00	-2.67

Band edge

Polarization	Frequency (MHz)	Reading(dBμV/m) QP	Factor Corr.(dB)	Result(dBμV/m) QP	Limits(dBμV/m) QP	Margin(dB) QP
Horizontal	87.7249	20.36	13.72	34.08	40.00	-5.92
Horizontal	88.0000	22.01	13.74	35.75	40.00	-4.25
Horizontal	88.2000	16.98	13.75	30.73	43.50	-12.77
Horizontal	88.8674	20.35	13.80	34.15	43.50	-9.35
Vertical	87.7172	17.00	13.72	30.72	40.00	-9.28
Vertical	88.0000	23.81	13.74	37.55	40.00	-2.45
Vertical	88.2000	19.31	13.75	33.06	43.50	-10.44
Vertical	88.8794	20.35	13.80	34.15	43.50	-9.35

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 in appendix I display the measurement of peak values.

Date of Test:	September 17, 2012	Temperature:	25°C
EUT:	MP3 Player	Humidity:	50%
Model No.:	CP3004(KW-CP3904)	Power Supply:	DC 12V
Test Mode:	TX 98.1MHz with USB playing (Connect to USB Memory Disk)	Test Engineer:	Bob

Harmonics and Spurious radiation emission

Polarization	Frequency (MHz)	Reading(dBμV/m) QP	Factor Corr.(dB)	Result(dBμV/m) QP	Limits(dBμV/m) QP	Margin(dB) QP
Horizontal	196.2000	27.51	14.03	41.54	43.50	-1.96
Horizontal	294.3000	25.15	18.60	43.75	46.00	-2.25
Horizontal	392.4000	21.15	21.97	43.12	46.00	-2.88
Horizontal	490.5000	19.58	23.93	43.51	46.00	-2.49
Vertical	196.2000	25.51	14.03	39.54	43.50	-3.96
Vertical	294.3000	24.84	18.60	43.44	46.00	-2.56
Vertical	392.4000	21.71	21.97	43.68	46.00	-2.32
Vertical	490.5000	18.89	23.93	42.82	46.00	-3.18

Band edge

Polarization	Frequency (MHz)	Reading(dBμV/m) QP	Factor Corr.(dB)	Result(dBμV/m) QP	Limits(dBμV/m) QP	Margin(dB) QP
Horizontal	97.5755	12.60	14.45	27.05	43.50	-16.45
Horizontal	98.0000	20.07	14.51	34.58	43.50	-8.92
Horizontal	98.2000	19.31	14.54	33.85	43.50	-9.65
Horizontal	98.6551	13.95	14.59	28.54	43.50	-14.96
Vertical	97.4398	12.12	14.43	26.55	43.50	-16.95
Vertical	98.0000	23.89	14.51	38.40	43.50	-5.10
Vertical	98.2000	14.35	14.54	28.89	43.50	-14.61
Vertical	98.5262	14.02	14.58	28.60	43.50	-14.90

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 in appendix I display the measurement of peak values.

Date of Test:	September 17, 2012	Temperature:	25°C
EUT:	MP3 Player	Humidity:	50%
Model No.:	CP3004(KW-CP3904)	Power Supply:	DC 12V
Test Mode:	TX 107.9MHz with USB playing (Connect to USB Memory Disk)	Test Engineer:	Bob

Harmonics and Spurious radiation emission

Polarization	Frequency (MHz)	Reading(dBμV/m) QP	Factor Corr.(dB)	Result(dBμV/m) QP	Limits(dBμV/m) QP	Margin(dB) QP
Horizontal	215.8000	26.78	14.72	41.50	43.50	-2.00
Horizontal	323.7000	23.68	19.50	43.18	46.00	-2.82
Horizontal	431.6000	20.54	22.96	43.50	46.00	-2.50
Horizontal	539.5000	19.71	24.93	44.64	46.00	-1.36
Vertical	215.3616	26.25	14.62	40.87	43.50	-2.63
Vertical	323.7000	24.58	19.50	44.08	46.00	-1.92
Vertical	431.6000	21.20	22.96	44.16	46.00	-1.84
Vertical	539.5000	18.21	24.93	43.14	46.00	-2.86

Band edge

Polarization	Frequency (MHz)	Reading(dBμV/m) QP	Factor Corr.(dB)	Result(dBμV/m) QP	Limits(dBμV/m) QP	Margin(dB) QP
Horizontal	107.1312	18.32	13.94	32.26	43.50	-11.24
Horizontal	107.8000	21.68	13.95	35.63	43.50	-7.87
Horizontal	108.0000	22.30	13.95	36.25	43.50	-7.25
Horizontal	108.6932	16.87	13.96	30.83	43.50	-12.67
Vertical	107.1110	16.68	13.94	30.62	43.50	-12.88
Vertical	107.8000	19.97	13.95	33.92	43.50	9.58
Vertical	108.0000	22.07	13.95	36.02	43.50	-7.48
Vertical	108.6971	17.36	13.96	31.32	43.50	-12.18

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 in appendix I display the measurement of peak values.

Date of Test:	<u>September 17, 2012</u>	Temperature:	<u>25°C</u>
EUT:	<u>MP3 Player</u>	Humidity:	<u>50%</u>
Model No.:	<u>CP3004(KW-CP3904)</u>	Power Supply:	<u>DC 12V</u>
	<u>TX 88.1MHz with SD Card</u>		
Test Mode:	<u>playing (Connect to Memory Card)</u>	Test Engineer:	<u>Bob</u>

Harmonics and Spurious radiation emission

Polarization	Frequency (MHz)	Reading(dBμV/m) QP	Factor Corr.(dB)	Result(dBμV/m) QP	Limits(dBμV/m) QP	Margin(dB) QP
Horizontal	176.2000	28.48	12.98	41.46	43.50	-2.04
Horizontal	264.3000	25.81	18.66	44.47	46.00	-1.53
Horizontal	352.4000	23.45	20.94	44.39	46.00	-1.61
Horizontal	440.5000	21.69	22.85	44.54	46.00	-1.46
Vertical	176.2000	28.80	12.98	41.78	43.50	-1.72
Vertical	264.3000	22.48	18.66	41.14	46.00	-4.86
Vertical	352.4000	23.41	20.94	44.35	46.00	-1.65
Vertical	440.5000	21.45	22.85	44.30	46.00	-1.70

Band edge

Polarization	Frequency (MHz)	Reading(dBμV/m) QP	Factor Corr.(dB)	Result(dBμV/m) QP	Limits(dBμV/m) QP	Margin(dB) QP
Horizontal	87.2309	21.69	13.70	35.39	40.00	-4.61
Horizontal	88.0000	24.07	13.74	37.81	40.00	-2.19
Horizontal	88.2000	21.20	13.75	34.95	43.50	-8.55
Horizontal	88.1997	21.98	13.77	35.75	43.50	-7.75
Vertical	87.6890	17.68	13.72	31.40	40.00	-8.60
Vertical	88.0013	24.20	13.74	37.94	43.50	-5.56
Vertical	88.2000	22.61	13.75	36.36	43.50	-7.14
Vertical	88.8593	17.24	13.80	31.04	43.50	-12.46

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 in appendix I display the measurement of peak values.

Date of Test:	September 17, 2012	Temperature:	25°C
EUT:	MP3 Player	Humidity:	50%
Model No.:	CP3004(KW-CP3904)	Power Supply:	DC 12V
Test Mode:	TX 98.1MHz with SD Card playing (Connect to Memory Card)	Test Engineer:	Bob

Harmonics and Spurious radiation emission

Polarization	Frequency (MHz)	Reading(dBμV/m) QP	Factor Corr.(dB)	Result(dBμV/m) QP	Limits(dBμV/m) QP	Margin(dB) QP
Horizontal	215.8000	27.45	14.72	42.17	43.50	-1.33
Horizontal	323.7000	24.12	19.50	43.62	46.00	-2.38
Horizontal	431.6000	20.23	22.96	43.19	46.00	-2.81
Horizontal	539.5000	17.58	24.93	42.51	46.00	-3.49
Vertical	215.8000	26.47	14.72	41.19	43.50	-2.31
Vertical	323.7000	23.74	19.50	43.24	46.00	-2.76
Vertical	431.6000	20.84	22.96	43.80	46.00	-2.20
Vertical	539.5000	18.36	24.93	43.29	46.00	-2.71

Band edge

Polarization	Frequency (MHz)	Reading(dBμV/m) QP	Factor Corr.(dB)	Result(dBμV/m) QP	Limits(dBμV/m) QP	Margin(dB) QP
Horizontal	97.2011	13.02	14.40	27.42	43.50	-16.08
Horizontal	98.0000	18.32	14.51	32.83	43.50	-10.67
Horizontal	98.2000	17.85	14.54	32.39	43.50	-11.11
Horizontal	98.5584	13.60	14.58	28.18	43.50	-15.32
Vertical	97.2288	12.36	14.41	26.77	43.50	-16.73
Vertical	98.0000	19.69	14.51	34.20	43.50	-9.30
Vertical	98.2000	16.89	14.54	31.43	43.50	-12.07
Vertical	98.5181	13.36	14.58	27.94	43.50	-15.56

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 in appendix I display the measurement of peak values.

Date of Test:	September 17, 2012	Temperature:	25°C
EUT:	MP3 Player	Humidity:	50%
Model No.:	CP3004(KW-CP3904)	Power Supply:	DC 12V
	TX 107.9MHz with SD Card		
Test Mode:	playing (Connect to Memory Card)	Test Engineer:	Bob

Harmonics and Spurious radiation emission

Polarization	Frequency (MHz)	Reading(dBμV/m) QP	Factor Corr.(dB)	Result(dBμV/m) QP	Limits(dBμV/m) QP	Margin(dB) QP
Horizontal	196.2000	27.25	14.03	41.28	43.50	-2.22
Horizontal	294.3000	24.38	18.60	42.98	46.00	-3.02
Horizontal	392.4000	22.41	21.97	44.38	46.00	-1.62
Horizontal	588.6000	18.54	25.40	43.94	46.00	-2.06
Vertical	196.2000	26.49	14.03	40.52	43.50	-2.98
Vertical	294.3000	25.51	18.60	44.11	46.00	-1.89
Vertical	392.4000	21.48	21.97	43.45	46.00	-2.55
Vertical	490.4000	18.75	23.93	42.68	46.00	-3.32

Band edge

Polarization	Frequency (MHz)	Reading(dBμV/m) QP	Factor Corr.(dB)	Result(dBμV/m) QP	Limits(dBμV/m) QP	Margin(dB) QP
Horizontal	107.0000	22.34	13.94	36.28	43.50	-7.22
Horizontal	107.8000	22.47	13.95	36.42	43.50	-7.08
Horizontal	108.0000	23.07	13.95	37.02	43.50	-6.48
Horizontal	108.6851	20.57	13.96	34.53	43.50	-8.97
Vertical	107.1110	12.30	13.94	26.24	43.50	-17.26
Vertical	107.8000	20.12	13.95	34.07	43.50	-9.43
Vertical	107.8000	21.86	13.95	35.81	43.50	-7.69
Vertical	108.7052	14.24	13.96	28.20	43.50	-15.30

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:

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

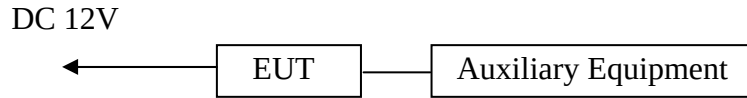
$$\text{Where Corrected Factor} = \text{Antenna Factor} + \text{Cable Loss} + \text{High Pass Filter Loss} - \text{Amplifier Gain}$$
3. The spectral diagrams in appendix I display the measurement of peak values.

5. FUNDAMENTAL RADIATED EMISSION FOR FCC PART 15

SECTION 15.239(B)

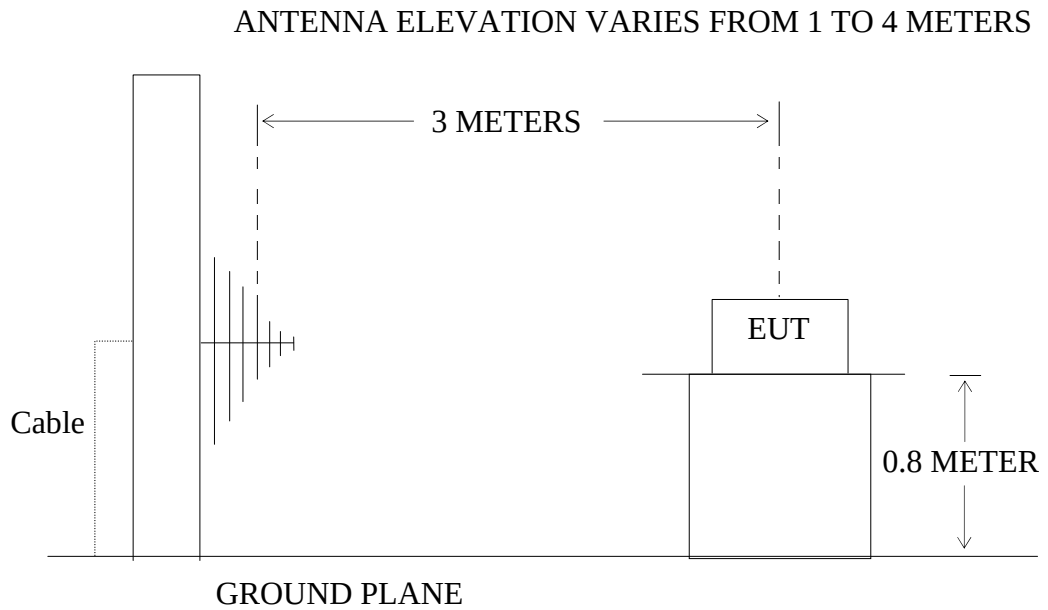
5.1. Block Diagram of Test Setup

5.1.1. Block diagram of connection between the EUT and simulators



(EUT: MP3 Player)

5.1.2. Semi-Anechoic Chamber Test Setup Diagram



(EUT: MP3 Player)

5.2. The Emission Limit For Section 15.239(b)

5.2.1. The field strength of any emission within the permitted 200kHz band shall not exceed 250microvolts/meter at 3 meters. The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in section 15.35 for limiting peak emissions apply.

5.3.EUT Configuration on Measurement

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

5.3.1.MP3 Player (EUT)

Model Number : CP3004(KW-CP3904)
Serial Number : N/A
Manufacturer : Kintech Co., Ltd.

5.4.Operating Condition of EUT

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

5.4.2.Turn on the power of all equipment.

5.4.3. Let the EUT work in TX modes [Connect EUT use Auxiliary Equipment (iPod , USB memory disk and memory card) playing typical audio signal with a 2.5 kHz tone at a level 16 dB higher than that required to produce a frequency deviation of 75 kHz] and measure it. The transmit frequency are 88.1-107.9MHz. We select 88.1M, 98.1M, 107.9MHz TX frequency to transmit.

5.5.Test Procedure

The EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4: 2009 on radiated emission measurement.

The bandwidth of test receiver is set at 120kHz.

5.6.The Emission Measurement Result

PASS.

Date of Test:	September 18, 2012	Temperature:	25°C
EUT:	MP3 Player	Humidity:	50%
Model No.:	CP3004(KW-CP3904)	Power Supply:	DC 12V
Test Mode:	TX 88.1MHz with Line in (Connect to iPod)	Test Engineer:	Bob

Fundamental Radiated Emissions

Frequency (MHz)	Reading(dBμV/m)		Factor (dB) Corr.	Result(dBμV/m)		Limit(dBμV/m)		Margin (dB)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
88.1000	30.24	32.09	13.75	43.99	45.84	48.00	68.00	-4.01	-22.16	Horizontal
88.1000	29.68	30.88	13.75	43.43	44.63	48.00	68.00	-4.57	-23.37	Vertical

Note:

1. Measurement was performed with modulated signal with average detector and peak detector.
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 in appendix I display the measurement of peak values.

Date of Test:	September 17, 2012	Temperature:	25°C
EUT:	MP3 Player	Humidity:	50%
Model No.:	CP3004(KW-CP3904)	Power Supply:	DC 12V
Test Mode:	TX 98.1MHz with Line in (Connect to iPod)	Test Engineer:	Bob

Fundamental Radiated Emissions

Frequency (MHz)	Reading(dBμV/m)		Factor (dB) Corr.	Result(dBμV/m)		Limit(dBμV/m)		Margin (dB)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
98.1000	29.83	30.90	14.03	43.86	44.93	48.00	68.00	-4.14	-23.07	Horizontal
98.1000	29.61	30.92	14.03	43.64	44.95	48.00	68.00	-4.36	-23.05	Vertical

Note:

1. Measurement was performed with modulated signal with average detector and peak detector.
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 in appendix I display the measurement of peak values.

Date of Test:	September 17, 2012	Temperature:	25°C
EUT:	MP3 Player	Humidity:	50%
Model No.:	CP3004(KW-CP3904)	Power Supply:	DC 12V
Test Mode:	TX 107.9MHz with Line in (Connect to iPod)	Test Engineer:	Bob

Fundamental Radiated Emissions

Frequency (MHz)	Reading(dBμV/m)		Factor (dB) Corr.	Result(dBμV/m)		Limit(dBμV/m)		Margin (dB)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
107.9000	32.34	32.73	13.95	46.29	46.68	48.00	68.00	-1.71	-21.32	Horizontal
107.9000	32.34	33.27	13.95	46.29	47.22	48.00	68.00	-1.71	-20.78	Vertical

Note:

1. Measurement was performed with modulated signal with average detector and peak detector.
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 in appendix I display the measurement of peak values.

Date of Test:	September 17, 2012	Temperature:	25°C
EUT:	MP3 Player	Humidity:	50%
Model No.:	CP3004(KW-CP3904)	Power Supply:	DC 12V
Test Mode:	TX 88.1MHz with USB playing (Connect to USB Memory Disk)	Test Engineer:	Bob

Fundamental Radiated Emissions

Frequency (MHz)	Reading(dBμV/m)		Factor (dB) Corr.	Result(dBμV/m)		Limit(dBμV/m)		Margin (dB)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
88.1000	30.58	32.33	13.75	44.33	46.08	48.00	68.00	-3.67	-21.92	Horizontal
88.1000	30.25	32.16	13.75	44.00	45.91	48.00	68.00	-4.00	-22.09	Vertical

Note:

- Measurement was performed with modulated signal with average detector and peak detector.
- 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:

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

$$\text{Where Corrected Factor} = \text{Antenna Factor} + \text{Cable Loss} + \text{High Pass Filter Loss} - \text{Amplifier Gain}$$
- The spectral diagrams in appendix I display the measurement of peak values.

Date of Test:	September 17, 2012	Temperature:	25°C
EUT:	MP3 Player	Humidity:	50%
Model No.:	CP3004(KW-CP3904)	Power Supply:	DC 12V
Test Mode:	TX 98.1MHz with USB playing (Connect to USB Memory Disk)	Test Engineer:	Bob

Fundamental Radiated Emissions

Frequency (MHz)	Reading(dBμV/m)		Factor (dB) Corr.	Result(dBμV/m)		Limit(dBμV/m)		Margin (dB)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
98.1000	30.85	32.36	14.03	44.88	46.39	48.00	68.00	-3.12	-21.61	Horizontal
98.1000	29.51	30.87	14.03	43.54	44.90	48.00	68.00	-4.46	-23.10	Vertical

Note:

- Measurement was performed with modulated signal with average detector and peak detector.
- 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:

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

$$\text{Where Corrected Factor} = \text{Antenna Factor} + \text{Cable Loss} + \text{High Pass Filter Loss} - \text{Amplifier Gain}$$
- The spectral diagrams in appendix I display the measurement of peak values.

Date of Test:	September 17, 2012	Temperature:	25°C
EUT:	MP3 Player	Humidity:	50%
Model No.:	CP3004(KW-CP3904)	Power Supply:	DC 12V
Test Mode:	TX 107.9MHz with USB playing (Connect to USB Memory Disk)	Test Engineer:	Bob

Fundamental Radiated Emissions

Frequency (MHz)	Reading(dBμV/m)		Factor (dB) Corr.	Result(dBμV/m)		Limit(dBμV/m)		Margin (dB)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
107.9000	31.63	33.36	13.95	45.58	47.31	48.00	68.00	-2.42	-20.69	Horizontal
107.9000	32.77	33.29	13.95	46.72	47.24	48.00	68.00	-1.28	-20.76	Vertical

Note:

1. Measurement was performed with modulated signal with average detector and peak detector.
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 in appendix I display the measurement of peak values.

Date of Test:	<u>September 17, 2012</u>	Temperature:	<u>25°C</u>
EUT:	<u>MP3 Player</u>	Humidity:	<u>50%</u>
Model No.:	<u>CP3004(KW-CP3904)</u>	Power Supply:	<u>DC 12V</u>
	<u>TX 88.1MHz with SD Card</u>		
Test Mode:	<u>playing (Connect to Memory Card)</u>	Test Engineer:	<u>Bob</u>

Fundamental Radiated Emissions

Frequency (MHz)	Reading(dBμV/m)		Factor (dB) Corr.	Result(dBμV/m)		Limit(dBμV/m)		Margin (dB)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
88.1000	30.81	32.36	13.75	44.56	46.11	48.00	68.00	-3.44	-21.89	Horizontal
88.1000	30.06	32.03	13.75	43.81	45.78	48.00	68.00	-4.19	-22.22	Vertical

Note:

- Measurement was performed with modulated signal with average detector and peak detector.
- 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:

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

$$\text{Where Corrected Factor} = \text{Antenna Factor} + \text{Cable Loss} + \text{High Pass Filter Loss} - \text{Amplifier Gain}$$
- The spectral diagrams in appendix I display the measurement of peak values.

Date of Test:	<u>September 17, 2012</u>	Temperature:	<u>25°C</u>
EUT:	<u>MP3 Player</u>	Humidity:	<u>50%</u>
Model No.:	<u>CP3004(KW-CP3904)</u>	Power Supply:	<u>DC 12V</u>
	<u>TX 98.1MHz with SD Card</u>		
Test Mode:	<u>playing (Connect to Memory Card)</u>	Test Engineer:	<u>Bob</u>

Fundamental Radiated Emissions

Frequency (MHz)	Reading(dBμV/m)		Factor (dB) Corr.	Result(dBμV/m)		Limit(dBμV/m)		Margin (dB)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
98.1000	31.57	32.07	14.03	45.60	46.10	48.00	68.00	-2.40	-1.90	Horizontal
98.1000	30.67	31.76	14.03	44.70	45.79	48.00	68.00	-3.30	-22.21	Vertical

Note:

1. Measurement was performed with modulated signal with average detector and peak detector.
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 in appendix I display the measurement of peak values.

Date of Test:	<u>September 17, 2012</u>	Temperature:	<u>25°C</u>
EUT:	<u>MP3 Player</u>	Humidity:	<u>50%</u>
Model No.:	<u>CP3004(KW-CP3904)</u>	Power Supply:	<u>DC 12V</u>
	<u>TX 107.9MHz with SD Card</u>		
Test Mode:	<u>playing (Connect to Memory Card)</u>	Test Engineer:	<u>Bob</u>

Fundamental Radiated Emissions

Frequency (MHz)	Reading(dBμV/m)		Factor (dB) Corr.	Result(dBμV/m)		Limit(dBμV/m)		Margin (dB)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
107.9000	32.84	33.35	13.95	46.79	47.30	48.00	68.00	-1.21	-20.70	Horizontal
107.9000	32.21	32.84	13.95	46.16	46.79	48.00	68.00	-1.84	-21.21	Vertical

Note:

1. Measurement was performed with modulated signal with average detector and peak detector.
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 in appendix I display the measurement of peak values.

6. OCCUPIED BANDWIDTH FOR FCC PART 15 SECTION

15.239(A)

6.1.The Requirement For Section 15.239(a)

6.1.1. Emission from the device shall be confined within a band 200kHz wide centered on the operating frequency. The 200kHz band shall lie wholly within the frequency range of 88-108MHz.

6.2.EUT Configuration on Measurement

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

6.2.1.MP3 Player (EUT)

Model Number	:	CP3004(KW-CP3904)
Serial Number	:	N/A
Manufacturer	:	Kintech Co., Ltd.

6.3. Operating Condition of EUT

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

6.3.2. Turn on the power of all equipment.

6.3.3. Let the EUT work in TX modes [Connect EUT use Auxiliary Equipment (iPod , USB memory disk and memory card) playing typical audio signal with a 2.5 kHz tone at a level 16 dB higher than that required to produce a frequency deviation of 75 kHz] measure it. The transmit frequency are 88.1-107.9MHz. We are select 88.1M, 98.1M, 107.9MHz TX frequency to transmit.

6.4. Test Procedure

6.4.1. The EUT was placed on a turn table which is 0.8m above ground plane.

6.4.2. Set EUT as normal operation. Playing typical audio signal with a 2.5 kHz tone at a level 16 dB higher than that required to produce a frequency deviation of 75 kHz

6.4.3. Set EMI test receiver Center Frequency = fundamental frequency, RBW= 3kHz, VBW= 10kHz, Span=300kHz.

6.4.4. Set EMI test receiver Max hold. Mark peak, -26dB.

6.5. Test Result

The EUT does meet the FCC requirement.

Line in (Connect to iPod)

Frequency (MHz)	Occupied Bandwidth (kHz)
88.1	94.20
98.1	93.60
107.9	94.20

USB playing (Connect to USB Memory Disk)

Frequency (MHz)	Occupied Bandwidth (kHz)
88.1	94.20
98.1	93.60
107.9	93.60

SD Card playing (Connect to Memory Card)

Frequency (MHz)	Occupied Bandwidth (kHz)
88.1	93.00
98.1	91.20
107.9	93.60

The spectral diagrams in appendix I.

7. TUNING RANGE

7.1.The Requirement For Section 15.239

88-108MHz

7.2.EUT Configuration on Measurement

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

7.2.1. MP3 Player (EUT)

Model Number	:	CP3004(KW-CP3904)
Serial Number	:	N/A
Manufacturer	:	Kintech Co., Ltd.

7.3.Operating Condition of EUT

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

7.3.2.Turn on the power of all equipment.

7.3.3. Let the EUT work in TX modes [Connect EUT use Auxiliary Equipment (iPod , USB memory disk and memory card) playing typical audio signal with a 2.5 kHz tone at a level 16 dB higher than that required to produce a frequency deviation of 75 kHz] measure it. The transmit frequency are 88.1-107.9MHz. We are select 88.1M, 98.1M, 107.9MHz TX frequency to transmit.

7.4.Test Procedure

7.4.1.The EUT was placed on a turn table which is 0.8m above ground plane.

7.4.2.Set the EUT working on the working frequency.

7.4.3. Set EMI test receiver center frequency = working frequency, RBW=3kHz, VBW= 10kHz, Span=300kHz.

7.4.4.Measuring the working frequency.

7.4.5.The working frequency should be inside 88-108MHz.

7.5. Test Result

The EUT does meet the FCC requirement.

Line in (Connect to iPod)

Display of the EUT LED (MHz)	Display of the EMI test receiver (MHz)
88.1	88.1180
98.1	98.7120
107.9	107.9130

USB playing (Connect to USB Memory Disk)

Display of the EUT LED (MHz)	Display of the EMI test receiver (MHz)
88.1	88.1243
98.1	98.7063
107.9	107.9441

SD Card playing (Connect to Memory Card)

Display of the EUT LED (MHz)	Display of the EMI test receiver (MHz)
88.1	88.1300
98.1	98.7105
107.9	107.9164

The working frequency rang is from 88.1 to 107.9MHz.

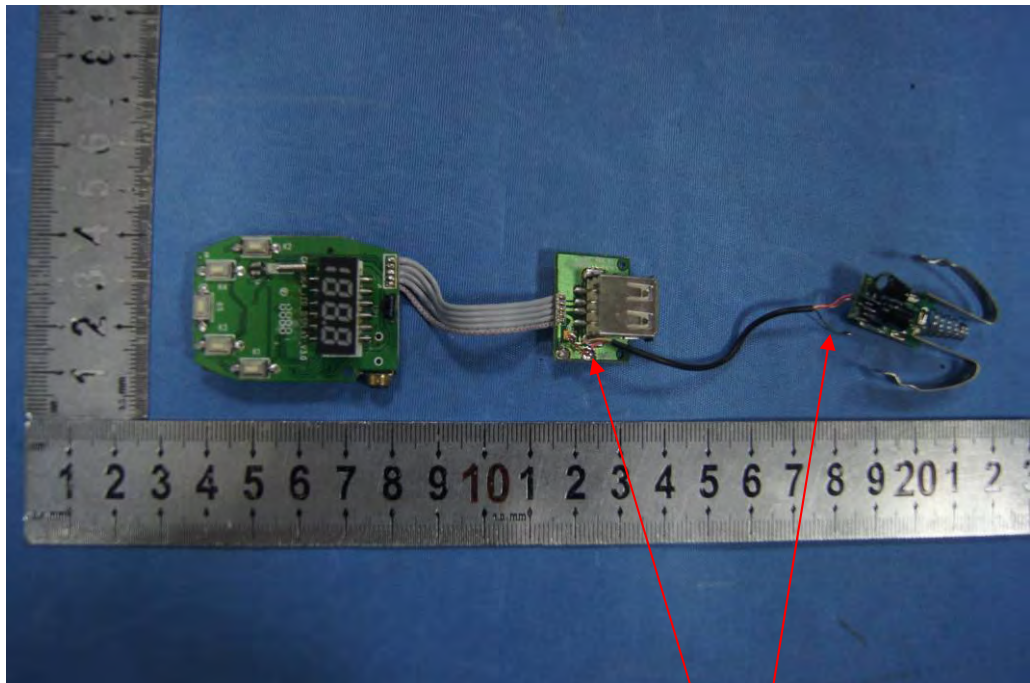
8. ANTENNA REQUIREMENT

8.1.The Requirement

According to Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

8.2.Antenna Construction

The antenna is outside welds the antenna but it cannot connect to polarity of the cigarette-lighter adapter, which isn't displaced by other antenna. Therefore, the equipment complies with the antenna requirement.



Antenna

APPENDIX I (Test Curves)



ACCURATE TECHNOLOGY CO., LTD.

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

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: ALEN #301

Standard: FCC PART 15 (FMT)

Test item: Radiation Test

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

EUT: MP3 Player

Mode: FM 88.1MHz(Line in)

Model: CP3004(KW-CP3904)

Manufacturer: Kintech

Polarization: Horizontal

Power Source: DC 12V

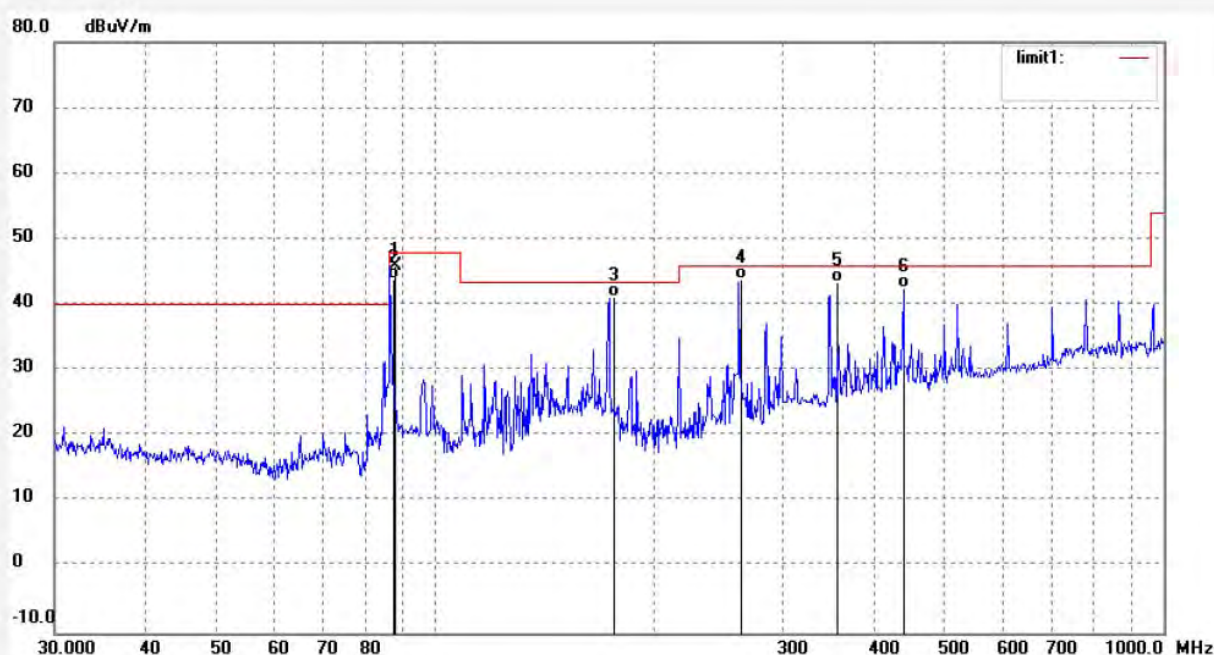
Date: 12/09/18/

Time: 9/21/44

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20122076



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	88.1000	32.09	13.75	45.84	68.00	-22.16	peak			
2	88.1000	30.24	13.75	43.99	48.00	-4.01	AVG			
3	176.2000	28.25	12.98	41.23	43.50	-2.27	QP			
4	264.3000	25.34	18.66	44.00	46.00	-2.00	QP			
5	352.4000	22.58	20.94	43.52	46.00	-2.48	QP			
6	440.5000	19.64	22.85	42.49	46.00	-3.51	QP			



ACCURATE TECHNOLOGY CO., LTD.

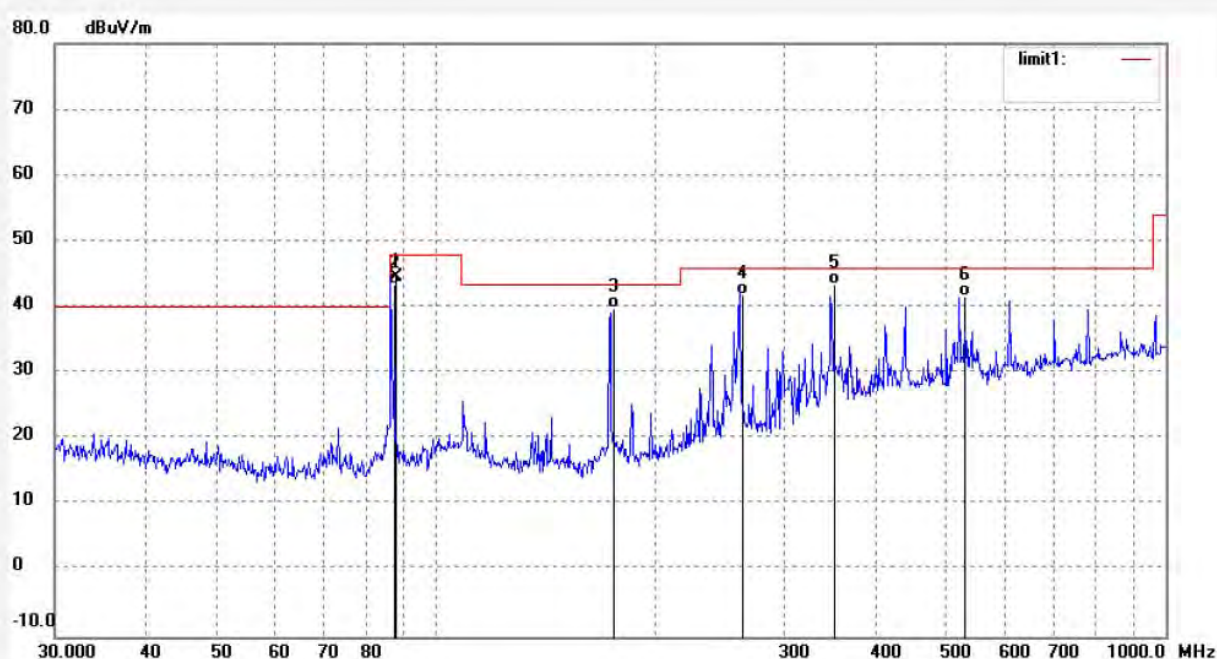
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: ALEN #302
Standard: FCC PART 15 (FMT)
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 49 %
EUT: MP3 Player
Mode: FM 88.1MHz(Line in)
Model: CP3004(KW-CP3904)
Manufacturer: Kintech

Polarization: Vertical
Power Source: DC 12V
Date: 12/09/18/
Time: 9/22/15
Engineer Signature:
Distance: 3m

Note: Report No.:ATE20122076



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	88.1000	30.88	13.75	44.63	68.00	-23.37	peak			
2	88.1000	29.68	13.75	43.43	48.00	-4.57	AVG			
3	176.2000	26.78	12.98	39.76	43.50	-3.74	QP			
4	264.3000	23.17	18.66	41.83	46.00	-4.17	QP			
5	352.4000	22.54	20.94	43.48	46.00	-2.52	QP			
6	528.6000	17.39	24.21	41.60	46.00	-4.40	QP			


ACCURATE TECHNOLOGY CO., LTD.

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

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: ALEN #309

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: MP3 Player

Mode: FM 88.1MHz(Line in)

Model: CP3004(KW-CP3904)

Manufacturer: Kintech

Polarization: Horizontal

Power Source: DC 12V

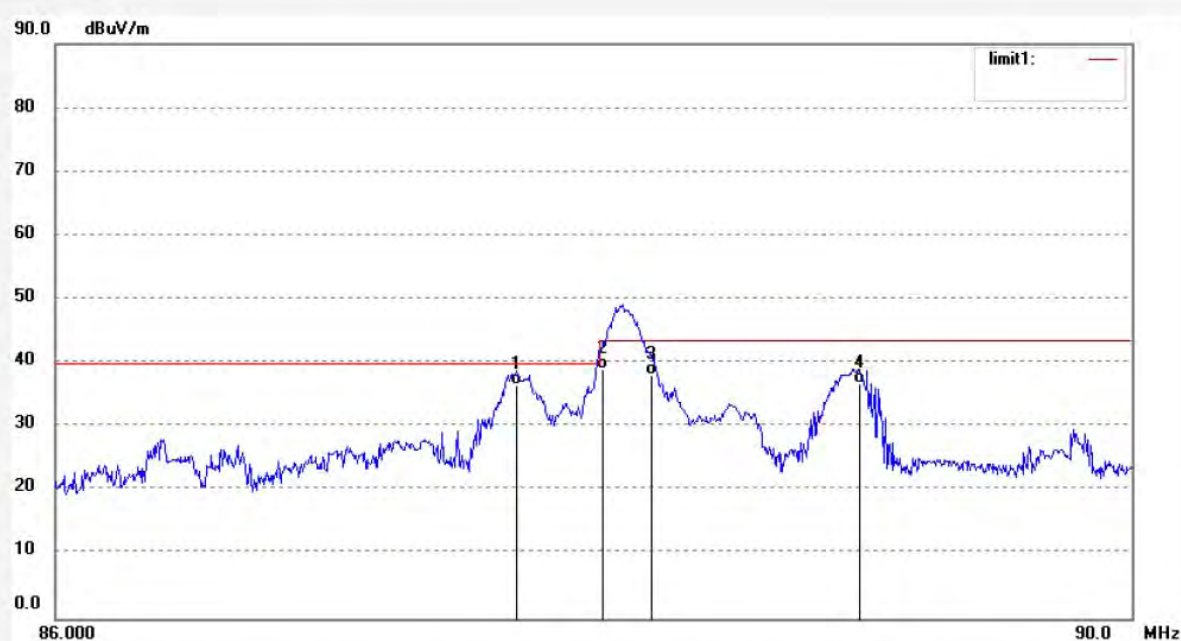
Date: 12/09/18/

Time: 9/30/31

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20122076



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	87.6931	22.86	13.72	36.58	40.00	-3.42	QP			
2	88.0000	25.21	13.74	38.95	40.00	-1.05	QP			
3	88.2000	24.32	13.75	38.07	43.50	-5.43	QP			
4	88.9728	23.07	13.80	36.87	43.50	-6.63	QP			



ACCURATE TECHNOLOGY CO., LTD.

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

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: ALEN #310

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: MP3 Player

Mode: FM 88.1MHz(Line in)

Model: CP3004(KW-CP3904)

Manufacturer: Kintech

Polarization: Vertical

Power Source: DC 12V

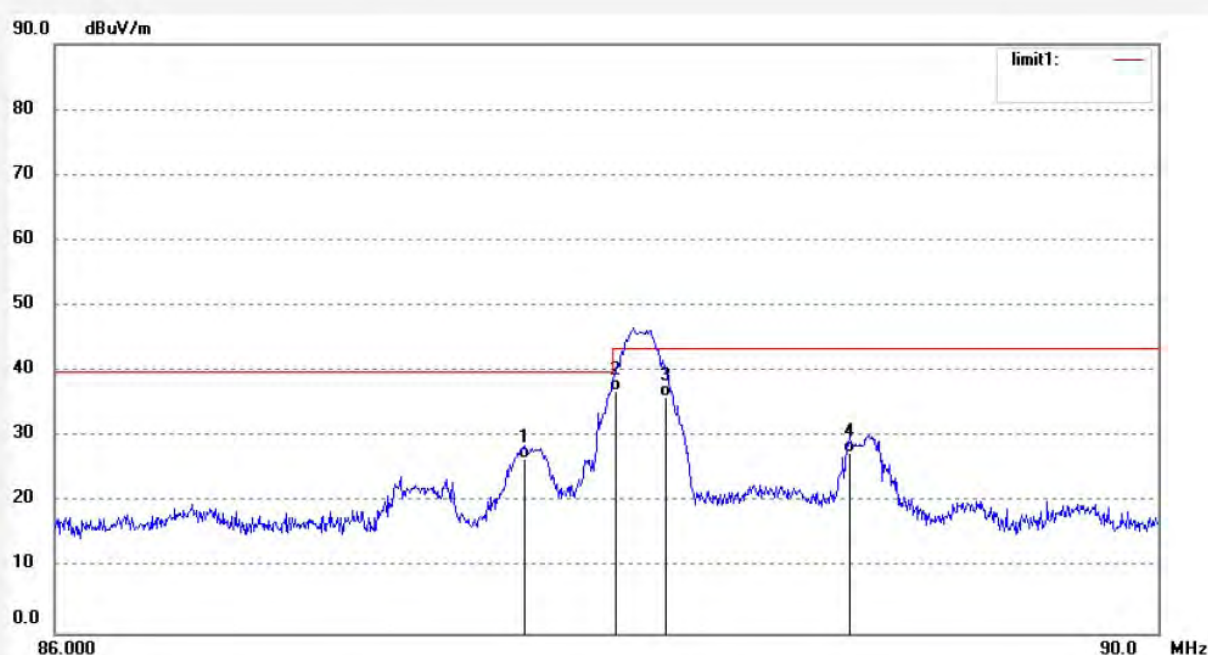
Date: 12/09/18/

Time: 9/31/01

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20122076



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	87.6812	12.83	13.72	26.55	40.00	-13.45	QP			
2	88.0000	23.24	13.74	36.98	40.00	-3.02	QP			
3	88.2000	22.38	13.75	36.13	43.50	-7.37	QP			
4	88.8632	13.69	13.80	27.49	43.50	-16.01	QP			



ACCURATE TECHNOLOGY CO., LTD.

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

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

Job No.: ALEN #304

Standard: FCC PART 15 (FMT)

Test item: Radiation Test

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

EUT: MP3 Player

Mode: FM 98.1MHz(Line in)

Model: CP3004(KW-CP3904)

Manufacturer: Kintech

Polarization: Horizontal

Power Source: DC 12V

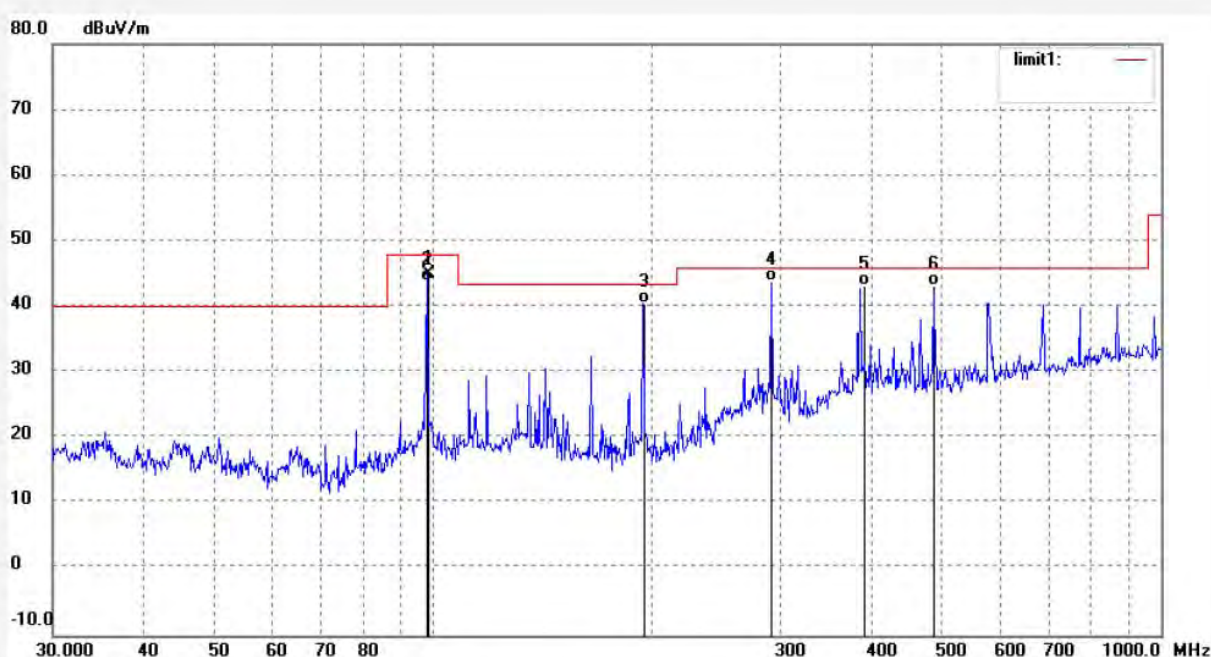
Date: 12/09/18/

Time: 9/24/18

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20122076



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	98.1000	30.90	14.03	44.93	68.00	-23.07	peak			
2	98.1000	29.83	14.03	43.86	48.00	-4.14	AVG			
3	196.2000	26.54	14.03	40.57	43.50	-2.93	QP			
4	294.3000	25.25	18.60	43.85	46.00	-2.15	QP			
5	392.4000	21.31	21.97	43.28	46.00	-2.72	QP			
6	490.5000	19.39	23.93	43.32	46.00	-2.68	QP			



ACCURATE TECHNOLOGY CO., LTD.

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

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: ALEN #303

Standard: FCC PART 15 (FMT)

Test item: Radiation Test

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

EUT: MP3 Player

Mode: FM 98.1MHz(Line in)

Model: CP3004(KW-CP3904)

Manufacturer: Kintech

Polarization: Vertical

Power Source: DC 12V

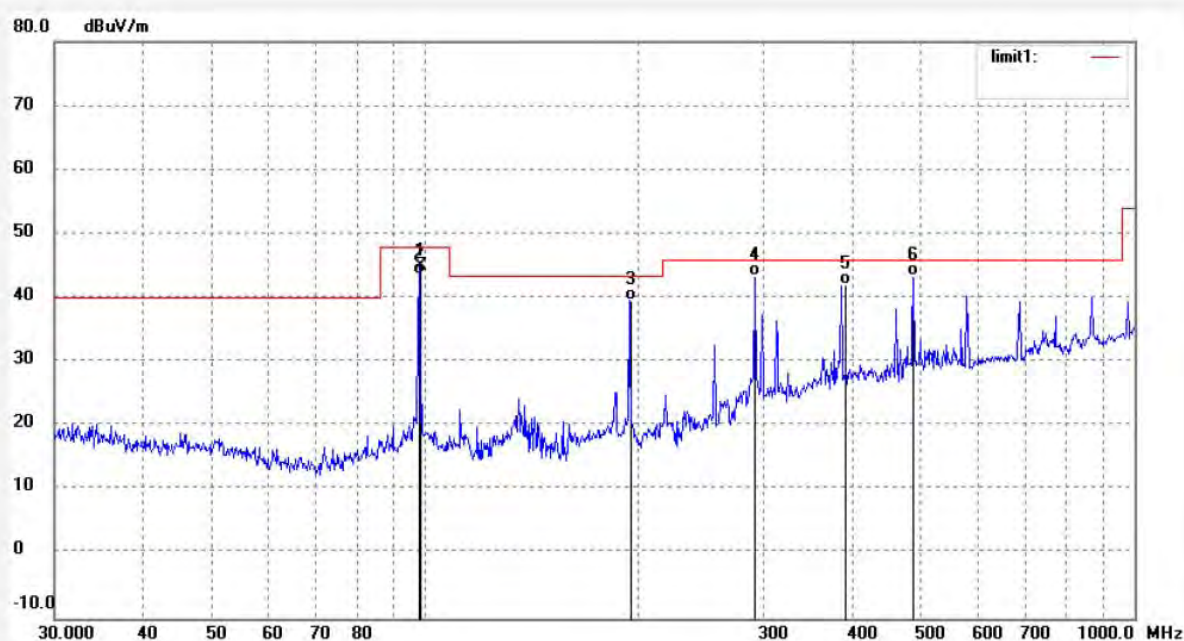
Date: 12/09/18/

Time: 9/23/44

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20122076



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	98.1000	30.92	14.03	44.95	68.00	-23.05	peak			
2	98.1000	29.61	14.03	43.64	48.00	-4.36	AVG			
3	196.2000	25.66	14.03	39.69	43.50	-3.81	QP			
4	294.3000	24.75	18.60	43.35	46.00	-2.65	QP			
5	392.4000	20.12	21.97	42.09	46.00	-3.91	QP			
6	490.5000	19.51	23.93	43.44	46.00	-2.56	QP			



ACCURATE TECHNOLOGY CO., LTD.

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

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: ALEN #475

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: MP3 player

Mode: FM 98.1MHz(Line in)

Model: CP3004(KW-CP3904)

Manufacturer: Kintech

Polarization: Horizontal

Power Source: DC 12V

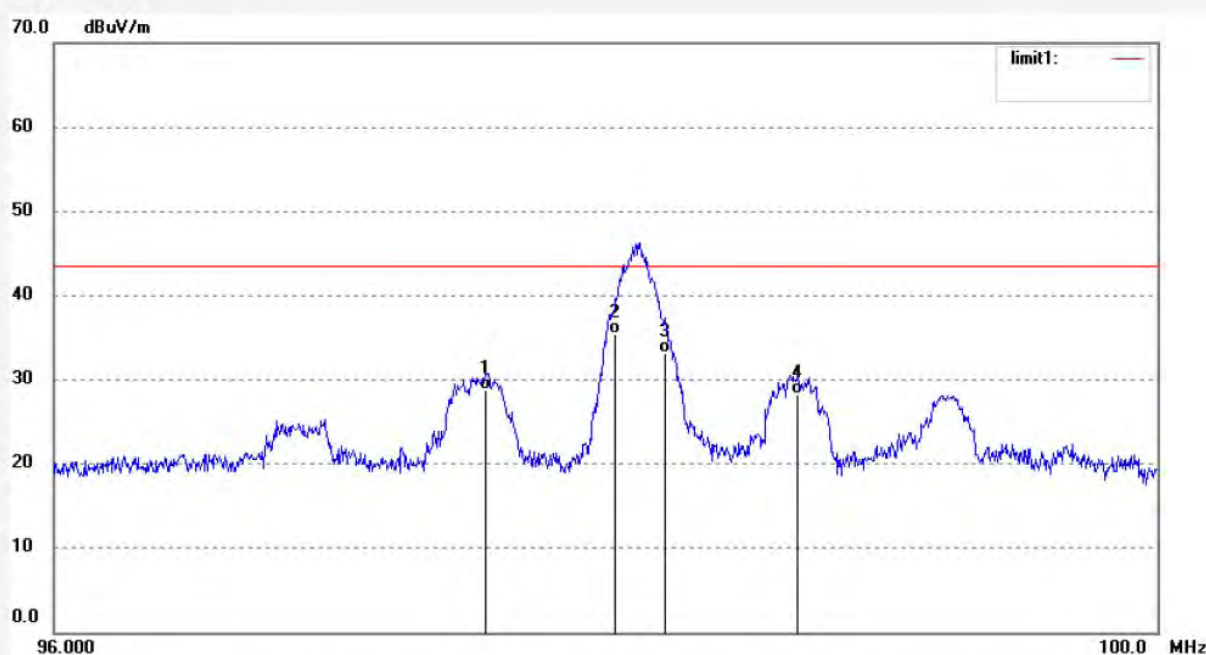
Date: 2012/11/07

Time: 17:34:35

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20122076



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	97.5437	14.32	14.45	28.77	43.50	-14.73	QP			
2	98.0000	20.98	14.51	35.49	43.50	-8.01	QP			
3	98.2000	18.69	14.54	33.23	43.50	-10.27	QP			
4	98.6793	13.69	14.60	28.29	43.50	-15.21	QP			



ACCURATE TECHNOLOGY CO., LTD.

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

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

Job No.: ALEN #474

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: MP3 player

Mode: FM 98.1MHz(Line in)

Model: CP3004(KW-CP3904)

Manufacturer: Kintech

Polarization: Vertical

Power Source: DC 12V

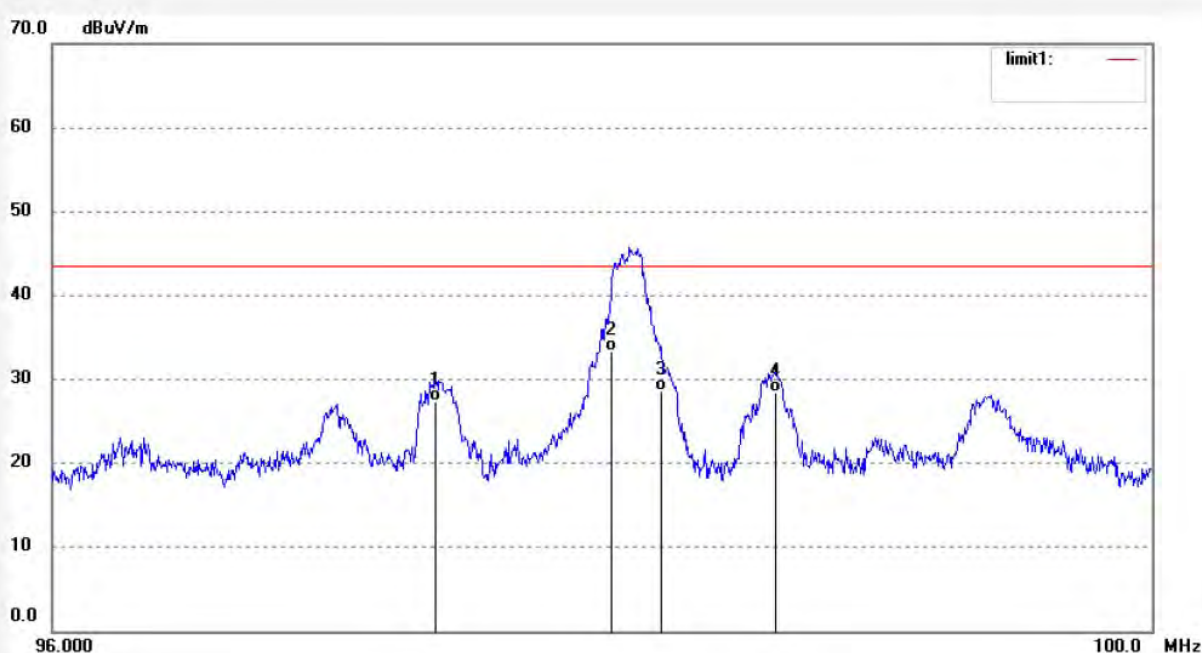
Date: 2012/11/07

Time: 17:34:35

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20122076



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	97.3763	12.98	14.42	27.40	43.50	-16.10	QP			
2	98.0000	18.87	14.51	33.38	43.50	-10.12	QP			
3	98.2000	14.02	14.54	28.56	43.50	-14.94	QP			
4	98.6149	13.89	14.59	28.48	43.50	-15.02	QP			



ACCURATE TECHNOLOGY CO., LTD.

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

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: ALEN #305

Standard: FCC PART 15 (FMT)

Test item: Radiation Test

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

EUT: MP3 Player

Mode: FM 107.9MHz(Line in)

Model: CP3004(KW-CP3904)

Manufacturer: Kintech

Polarization: Horizontal

Power Source: DC 12V

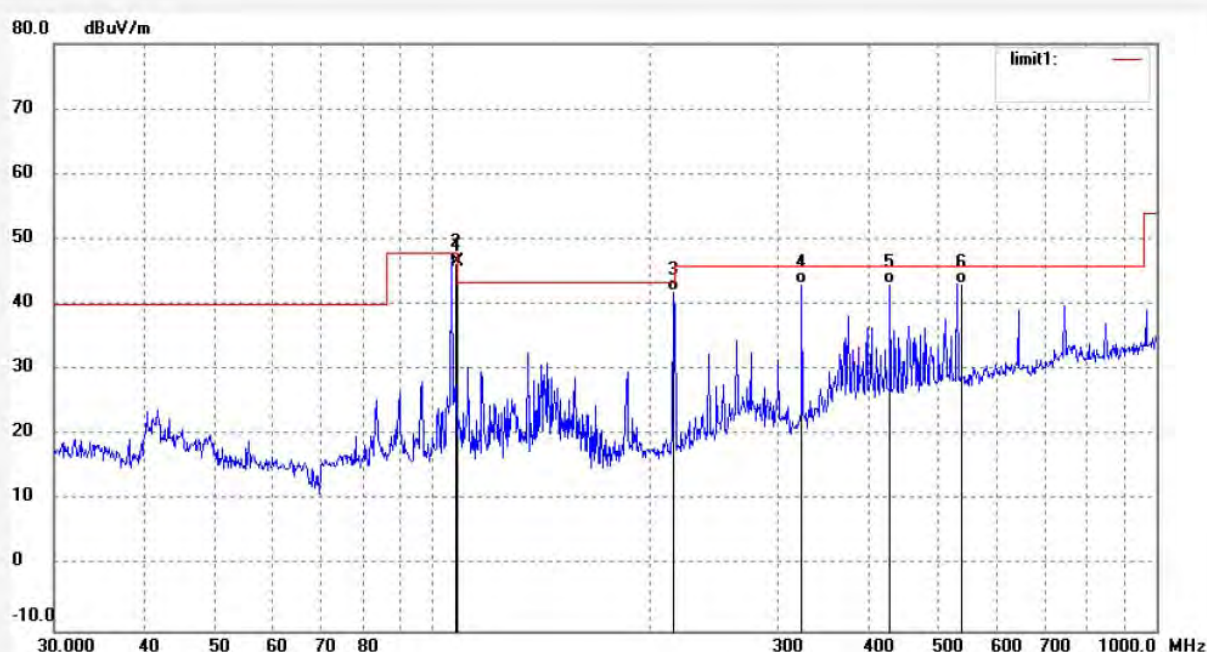
Date: 12/09/18/

Time: 9/25/51

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20122076



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	107.9000	32.73	13.95	46.68	68.00	-21.32	peak			
2	107.9000	32.34	13.95	46.29	48.00	-1.71	AVG			
3	215.8000	27.36	14.72	42.08	43.50	-1.42	QP			
4	323.7000	23.75	19.50	43.25	46.00	-2.75	QP			
5	431.6000	20.36	22.96	43.32	46.00	-2.68	QP			
6	539.5000	18.22	24.93	43.15	46.00	-2.85	QP			



ACCURATE TECHNOLOGY CO., LTD.

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

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: ALEN #306

Standard: FCC PART 15 (FMT)

Test item: Radiation Test

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

EUT: MP3 Player

Mode: FM 107.9MHz(Line in)

Model: CP3004(KW-CP3904)

Manufacturer: Kintech

Polarization: Vertical

Power Source: DC 12V

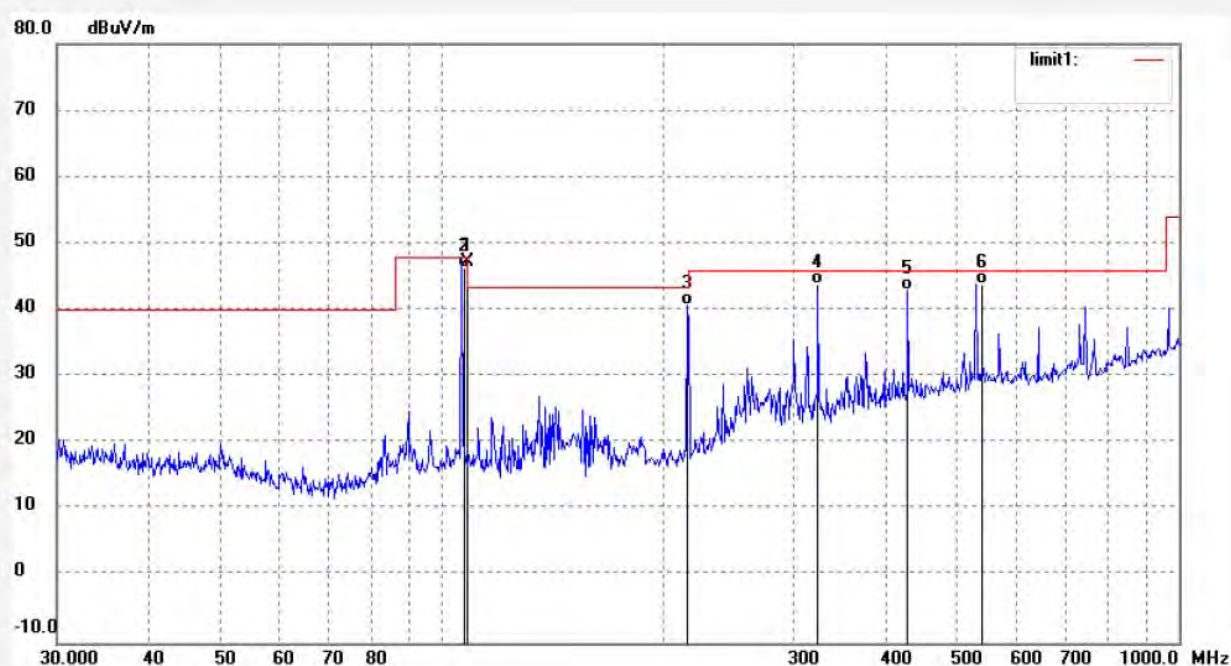
Date: 12/09/18/

Time: 9/26/29

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20122076



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	107.9000	33.27	13.95	47.22	68.00	-20.78	peak			
2	107.9000	32.34	13.95	46.29	48.00	-1.71	AVG			
3	215.8000	25.92	14.72	40.64	43.50	-2.86	QP			
4	323.7000	24.36	19.50	43.86	46.00	-2.14	QP			
5	431.6000	20.01	22.96	42.97	46.00	-3.03	QP			
6	539.5000	18.90	24.93	43.83	46.00	-2.17	QP			



ACCURATE TECHNOLOGY CO., LTD.

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

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: ALEN #308

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: MP3 Player

Mode: FM 107.9MHz(Line in)

Model: CP3004(KW-CP3904)

Manufacturer: Kintech

Polarization: Horizontal

Power Source: DC 12V

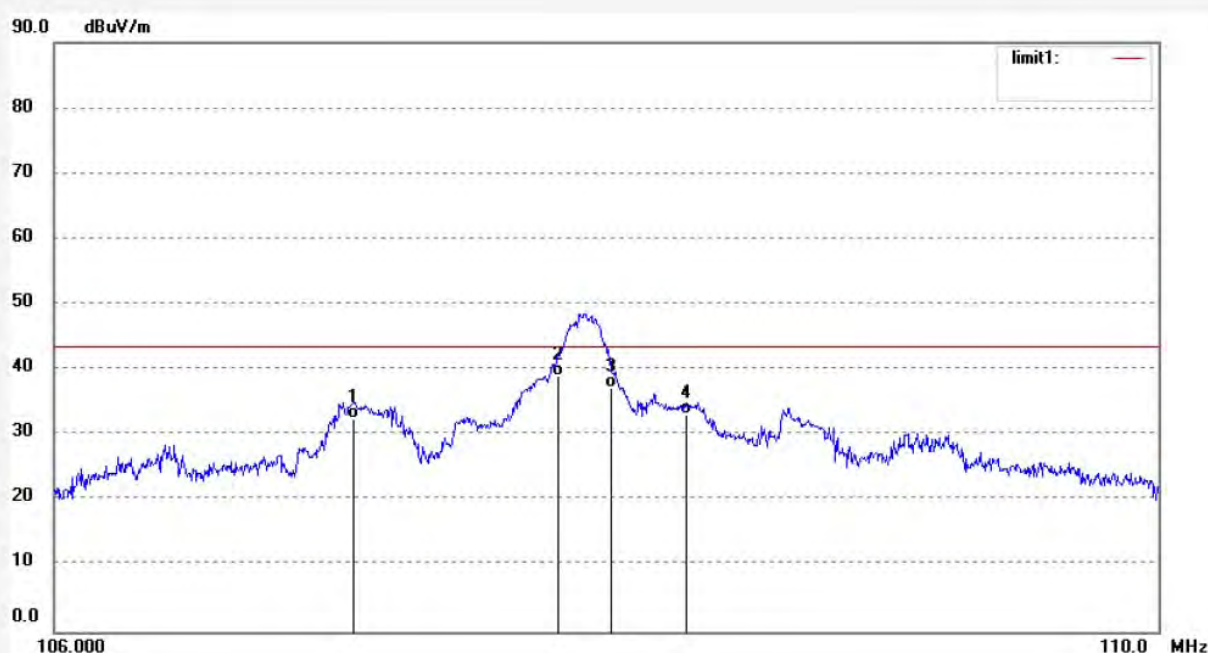
Date: 12/09/18/

Time: 9/29/16

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20122076



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	107.0716	18.63	13.94	32.57	43.50	-10.93	QP			
2	107.8011	24.98	13.95	38.93	43.50	-4.57	QP			
3	108.0053	23.21	13.95	37.16	43.50	-6.34	QP			
4	108.2703	19.21	13.95	33.16	43.50	-10.34	QP			



ACCURATE TECHNOLOGY CO., LTD.

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

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

Job No.: ALEN #307

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: MP3 Player

Mode: FM 107.9MHz(Line in)

Model: CP3004(KW-CP3904)

Manufacturer: Kintech

Polarization: Vertical

Power Source: DC 12V

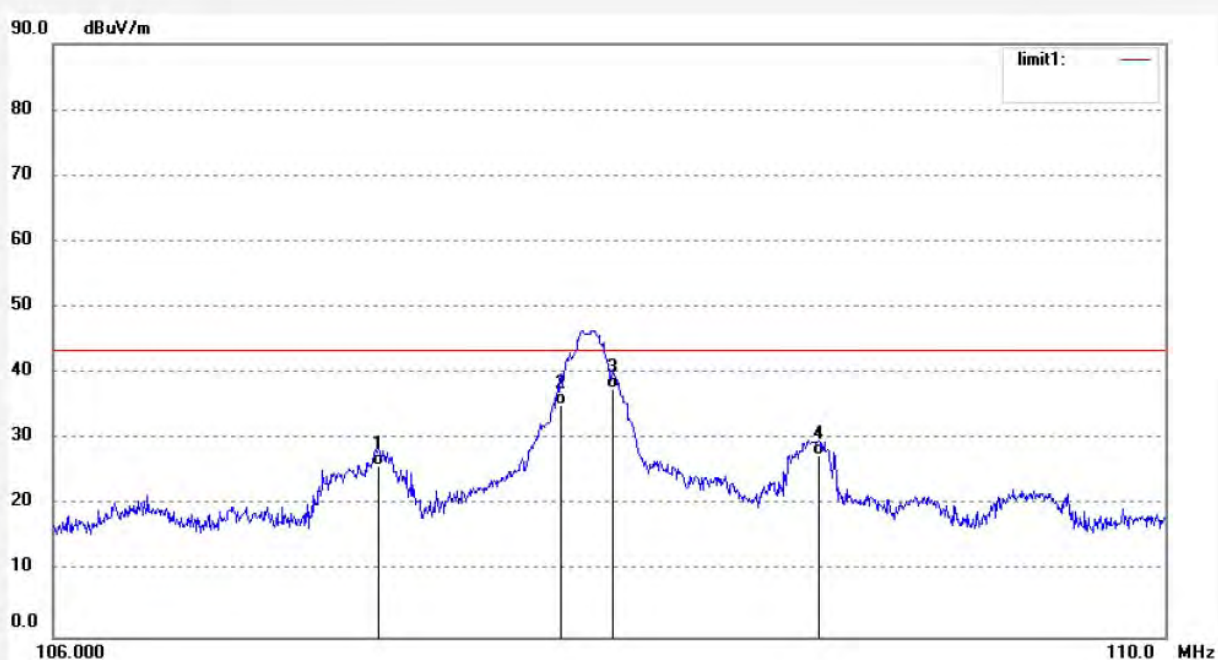
Date: 12/09/18/

Time: 9/28/45

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20122076



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	107.1550	12.14	13.94	26.08	43.50	-17.42	QP			
2	107.8011	21.31	13.95	35.26	43.50	-8.24	QP			
3	107.9975	23.68	13.95	37.63	43.50	-5.87	QP			
4	108.7376	13.68	13.96	27.64	43.50	-15.86	QP			



ACCURATE TECHNOLOGY CO., LTD.

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

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

Job No.: ALEN #284

Standard: FCC PART 15 (FMT)

Test item: Radiation Test

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

EUT: MP3 Player

Mode: FM 88.1MHz(USB)

Model: CP3004(KW-CP3904)

Manufacturer: Kintech

Polarization: Horizontal

Power Source: DC 12V

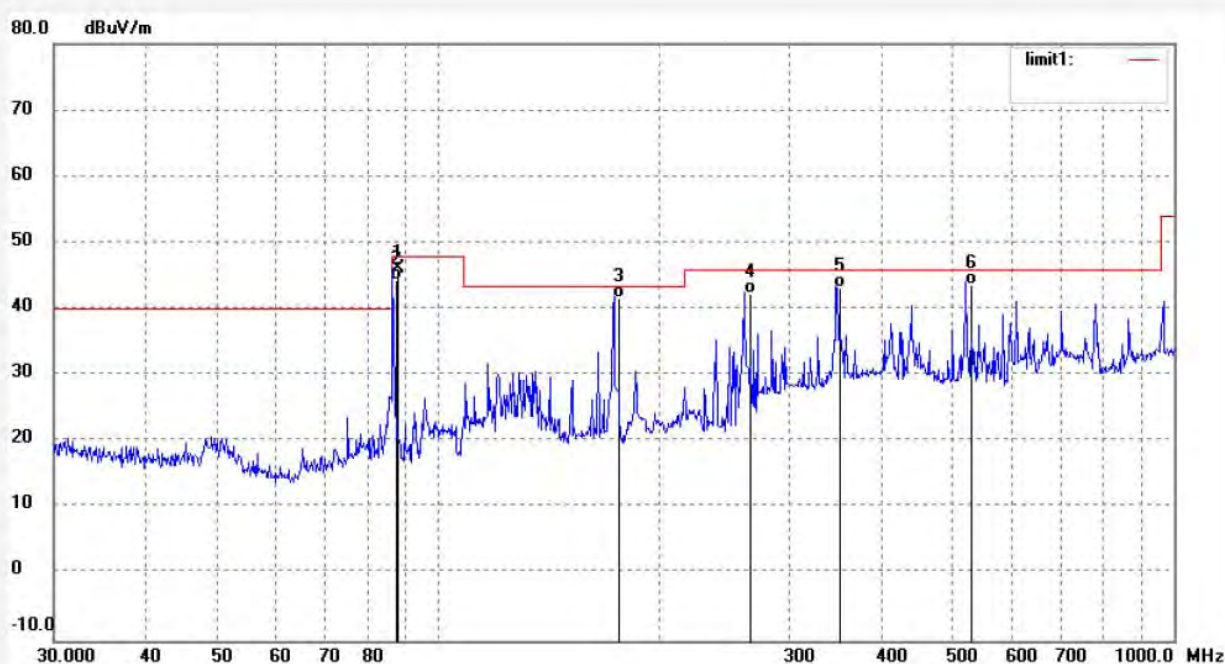
Date: 12/09/17/

Time: 9/14/36

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20122076



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	88.1000	32.33	13.75	46.08	68.00	-21.92	peak			
2	88.1000	30.58	13.75	44.33	48.00	-3.67	AVG			
3	176.2000	28.72	12.98	41.70	43.50	-1.80	QP			
4	264.3000	23.57	18.66	42.23	46.00	-3.77	QP			
5	352.4000	22.18	20.94	43.12	46.00	-2.88	QP			
6	528.6000	19.48	24.21	43.69	46.00	-2.31	QP			



ACCURATE TECHNOLOGY CO., LTD.

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

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

Job No.: ALEN #283

Standard: FCC PART 15 (FMT)

Test item: Radiation Test

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

EUT: MP3 Player

Mode: FM 88.1MHz(USB)

Model: CP3004(KW-CP3904)

Manufacturer: Kintech

Polarization: Vertical

Power Source: DC 12V

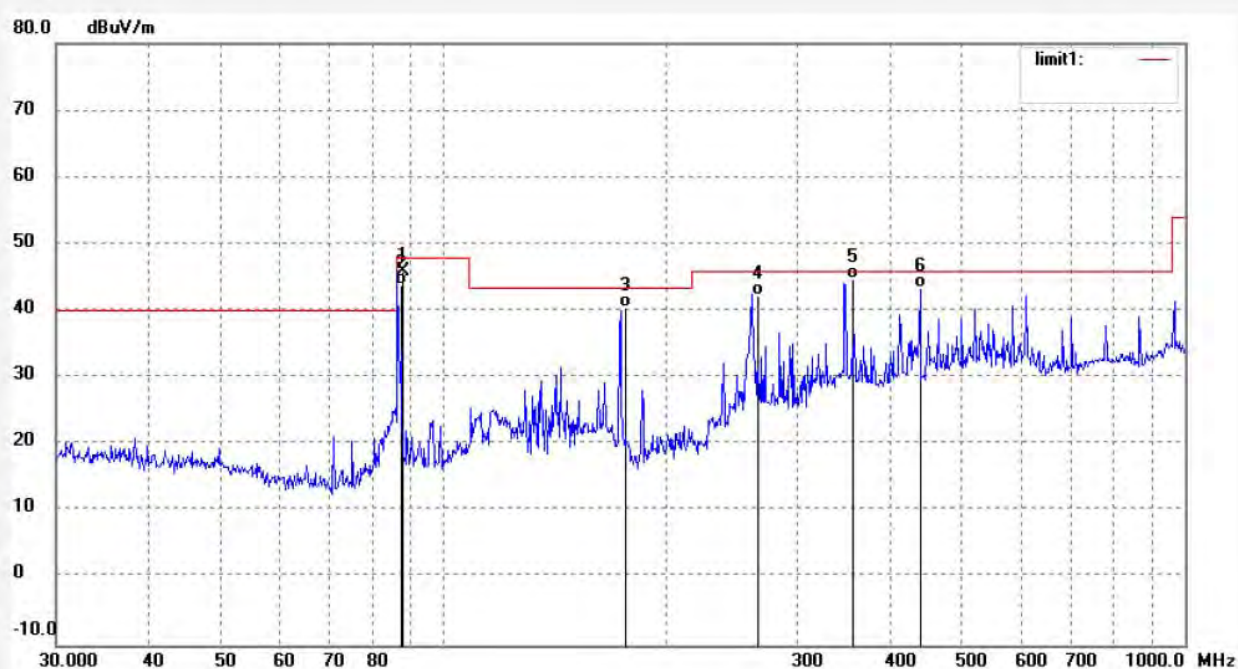
Date: 12/09/17/

Time: 9/13/42

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20122076



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	88.1000	32.16	13.75	45.91	68.00	-22.09	peak			
2	88.1000	30.25	13.75	44.00	48.00	-4.00	AVG			
3	176.2000	27.51	12.98	40.49	43.50	-3.01	QP			
4	264.3000	23.54	18.66	42.20	46.00	-3.80	QP			
5	352.4000	23.91	20.94	44.85	46.00	-1.15	QP			
6	440.5000	20.48	22.85	43.33	46.00	-2.67	QP			



ACCURATE TECHNOLOGY CO., LTD.

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

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: ALEN #297

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: MP3 Player

Mode: FM 88.1MHz(USB)

Model: CP3004(KW-CP3904)

Manufacturer: Kintech

Polarization: Horizontal

Power Source: DC 12V

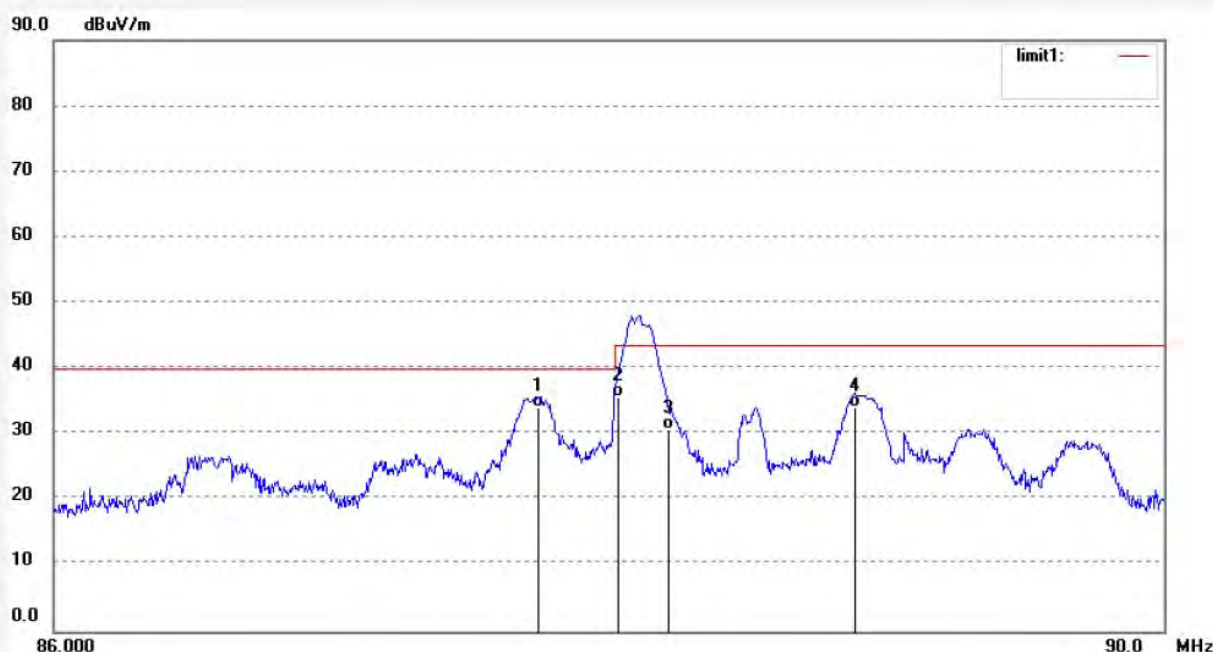
Date: 12/09/17/

Time: 9/31/54

Engineer Signature:

Distance: 3m

Note: Report No.:ATE201222076



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	87.7249	20.36	13.72	34.08	40.00	-5.92	QP			
2	88.0000	22.01	13.74	35.75	40.00	-4.25	QP			
3	88.2000	16.98	13.75	30.73	43.50	-12.77	QP			
4	88.8674	20.35	13.80	34.15	43.50	-9.35	QP			



ACCURATE TECHNOLOGY CO., LTD.

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

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: ALEN #298

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: MP3 Player

Mode: FM 88.1MHz(USB)

Model: CP3004(KW-CP3904)

Manufacturer: Kintech

Polarization: Vertical

Power Source: DC 12V

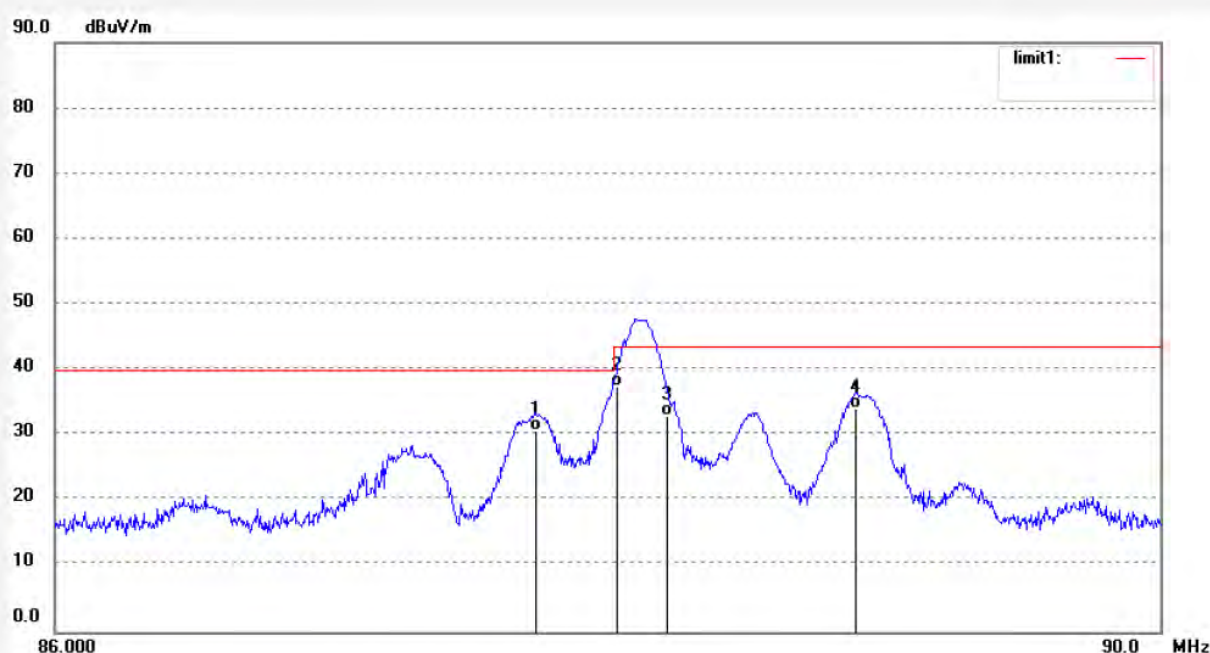
Date: 12/09/17/

Time: 9/33/12

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20122076



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	87.7172	17.00	13.72	30.72	40.00	-9.28	QP			
2	88.0000	23.81	13.74	37.55	40.00	-2.45	QP			
3	88.2000	19.31	13.75	33.06	43.50	-10.44	QP			
4	88.8794	20.35	13.80	34.15	43.50	-9.35	QP			



ACCURATE TECHNOLOGY CO., LTD.

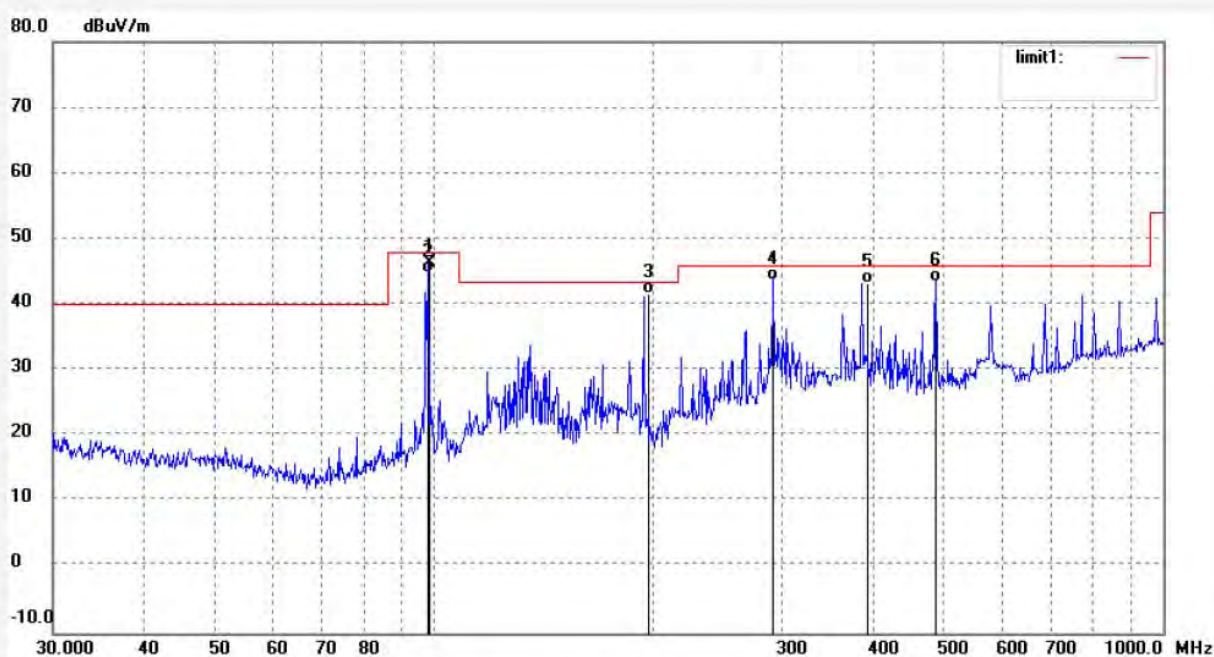
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: ALEN #285
Standard: FCC PART 15 (FMT)
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 49 %
EUT: MP3 Player
Mode: FM 98.1MHz(USB)
Model: CP3004(KW-CP3904)
Manufacturer: Kintech

Polarization: Horizontal
Power Source: DC 12V
Date: 12/09/17/
Time: 9/16/19
Engineer Signature:
Distance: 3m

Note: Report No.:ATE20122076



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	98.1000	32.36	14.03	46.39	68.00	-21.61	peak			
2	98.1000	30.85	14.03	44.88	48.00	-3.12	AVG			
3	196.2000	27.51	14.03	41.54	43.50	-1.96	QP			
4	294.3000	25.15	18.60	43.75	46.00	-2.25	QP			
5	392.4000	21.15	21.97	43.12	46.00	-2.88	QP			
6	490.5000	19.58	23.93	43.51	46.00	-2.49	QP			



ACCURATE TECHNOLOGY CO., LTD.

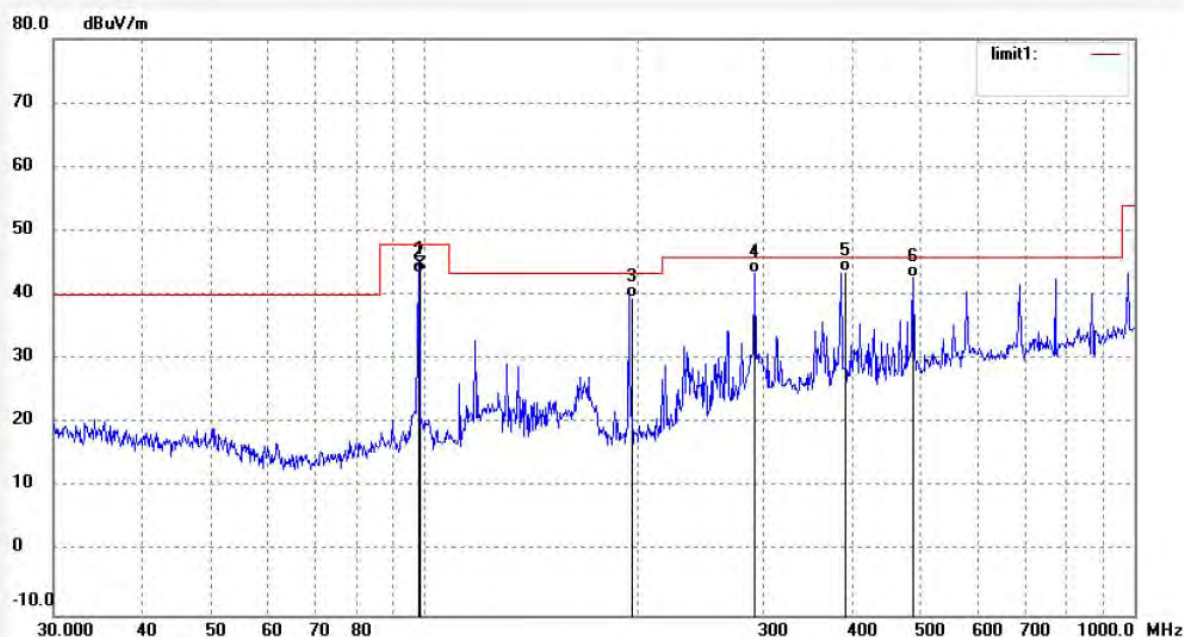
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: ALEN #286
Standard: FCC PART 15 (FMT)
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 49 %
EUT: MP3 Player
Mode: FM 98.1MHz(USB)
Model: CP3004(KW-CP3904)
Manufacturer: Kintech

Polarization: Vertical
Power Source: DC 12V
Date: 12/09/17/
Time: 9/17/06
Engineer Signature:
Distance: 3m

Note: Report No.:ATE20122076



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	98.1000	30.87	14.03	44.90	68.00	-23.10	peak			
2	98.1000	29.51	14.03	43.54	48.00	-4.46	AVG			
3	196.2000	25.51	14.03	39.54	43.50	-3.96	QP			
4	294.3000	24.84	18.60	43.44	46.00	-2.56	QP			
5	392.4000	21.71	21.97	43.68	46.00	-2.32	QP			
6	490.5000	18.89	23.93	42.82	46.00	-3.18	QP			



ACCURATE TECHNOLOGY CO., LTD.

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

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: ALEN #472

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: MP3 player

Mode: FM 98.1MHz(USB)

Model: CP3004(KW-CP3904)

Manufacturer: Kintech

Polarization: Horizontal

Power Source: DC 12V

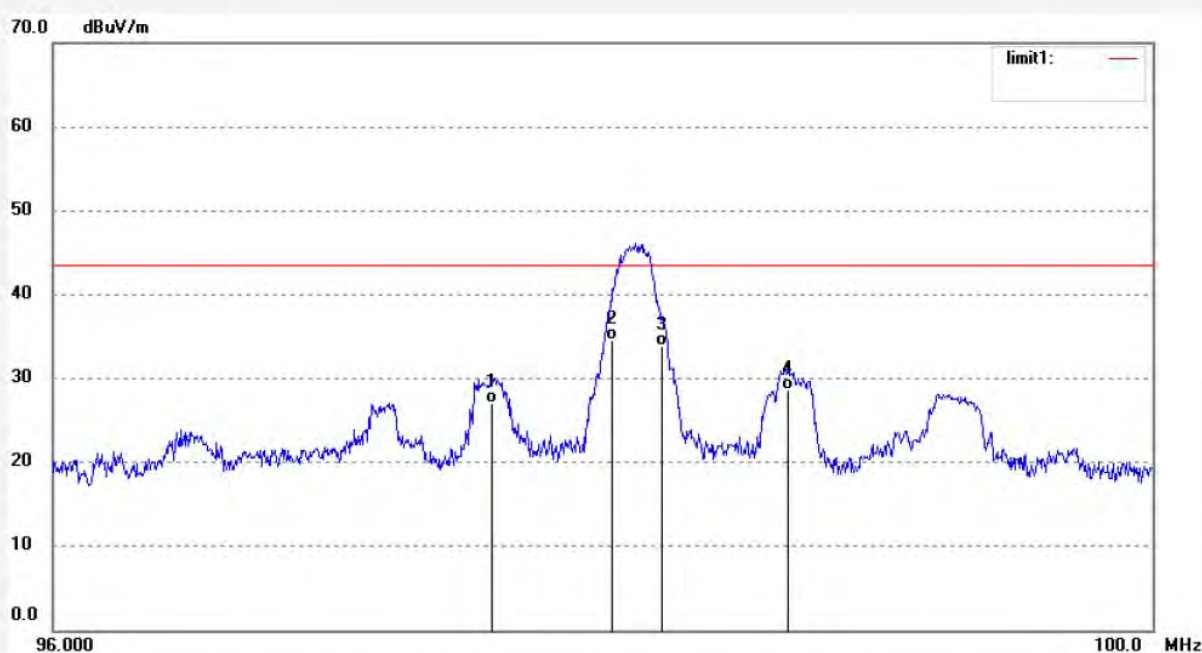
Date: 2012/11/07

Time: 17:34:35

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20122076



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	97.5755	12.60	14.45	27.05	43.50	-16.45	QP			
2	98.0000	20.07	14.51	34.58	43.50	-8.92	QP			
3	98.2000	19.31	14.54	33.85	43.50	-9.65	QP			
4	98.6551	13.95	14.59	28.54	43.50	-14.96	QP			



ACCURATE TECHNOLOGY CO., LTD.

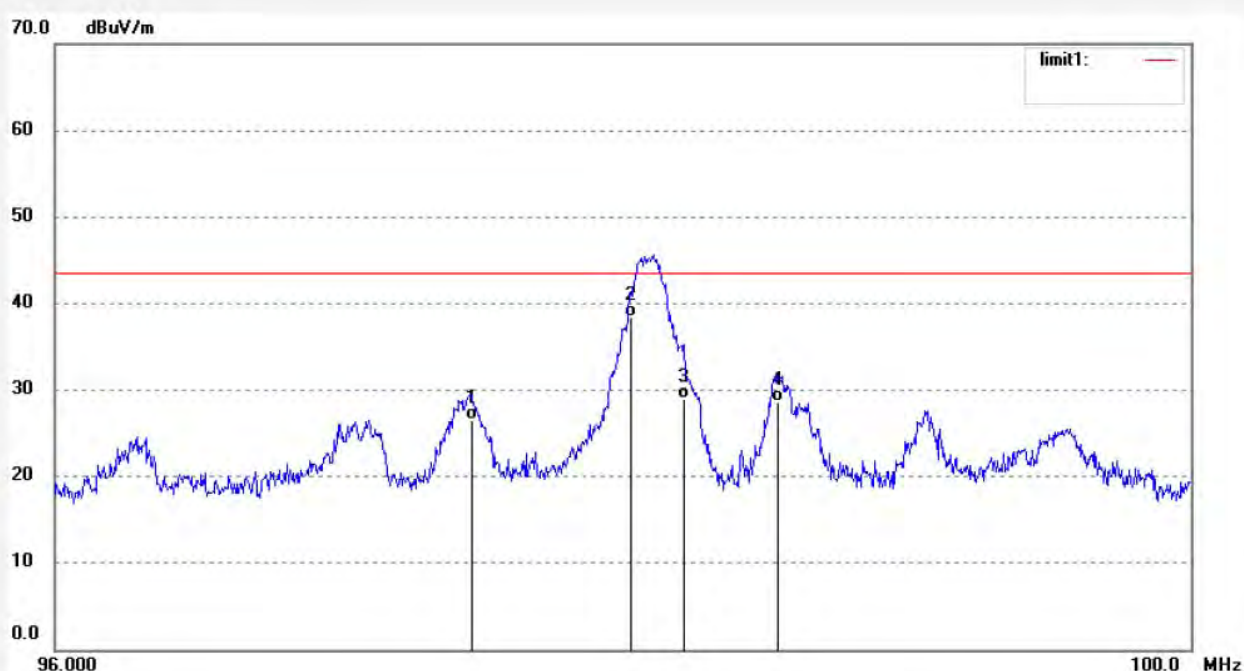
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: ALEN #473
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 49 %
EUT: MP3 player
Mode: FM 98.1MHz(USB)
Model: CP3004(KW-CP3904)
Manufacturer: Kintech

Polarization: Vertical
Power Source: DC 12V
Date: 2012/11/07
Time: 17:34:35
Engineer Signature:
Distance: 3m

Note: Report No.:ATE20122076



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	97.4398	12.12	14.43	26.55	43.50	-16.95	QP			
2	98.0000	23.89	14.51	38.40	43.50	-5.10	QP			
3	98.2000	14.35	14.54	28.89	43.50	-14.61	QP			
4	98.5262	14.02	14.58	28.60	43.50	-14.90	QP			



ACCURATE TECHNOLOGY CO., LTD.

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

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

Job No.: ALEN #288

Standard: FCC PART 15 (FMT)

Test item: Radiation Test

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

EUT: MP3 Player

Mode: FM 107.9MHz(USB)

Model: CP3004(KW-CP3904)

Manufacturer: Kintech

Polarization: Horizontal

Power Source: DC 12V

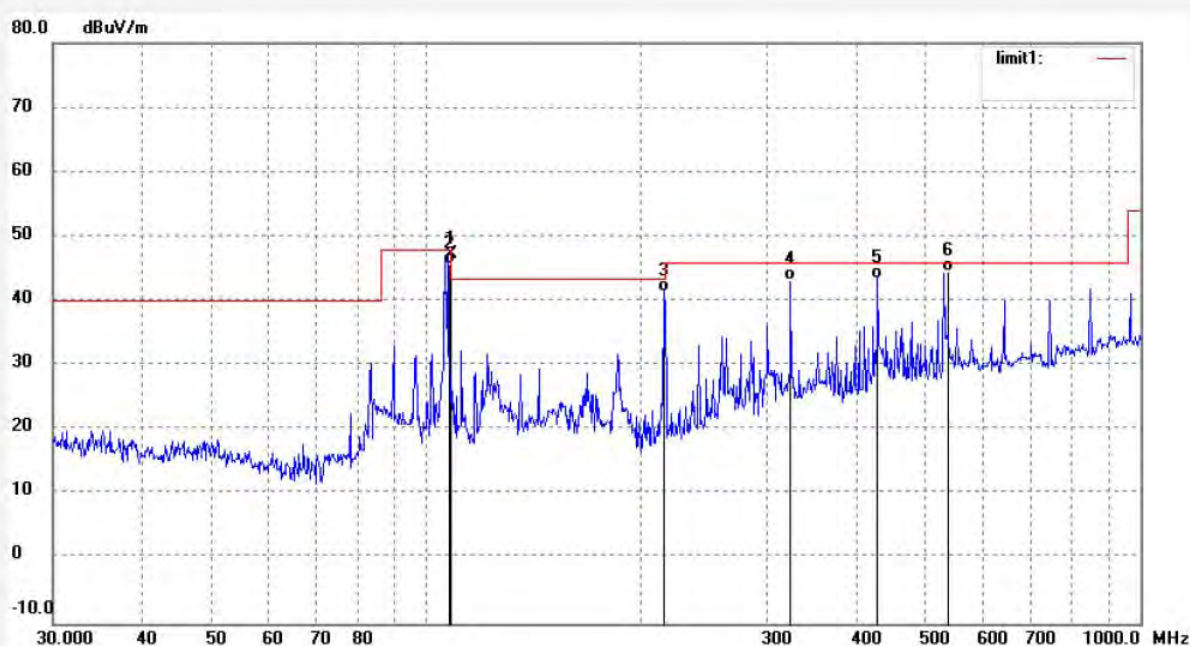
Date: 12/09/17/

Time: 9/19/32

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20122076



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	107.9000	33.36	13.95	47.31	68.00	-20.69	peak			
2	107.9000	31.63	13.95	45.58	48.00	-2.42	AVG			
3	215.8000	26.78	14.72	41.50	43.50	-2.00	QP			
4	323.7000	23.68	19.50	43.18	46.00	-2.82	QP			
5	431.6000	20.54	22.96	43.50	46.00	-2.50	QP			
6	539.5000	19.71	24.93	44.64	46.00	-1.36	QP			



ACCURATE TECHNOLOGY CO., LTD.

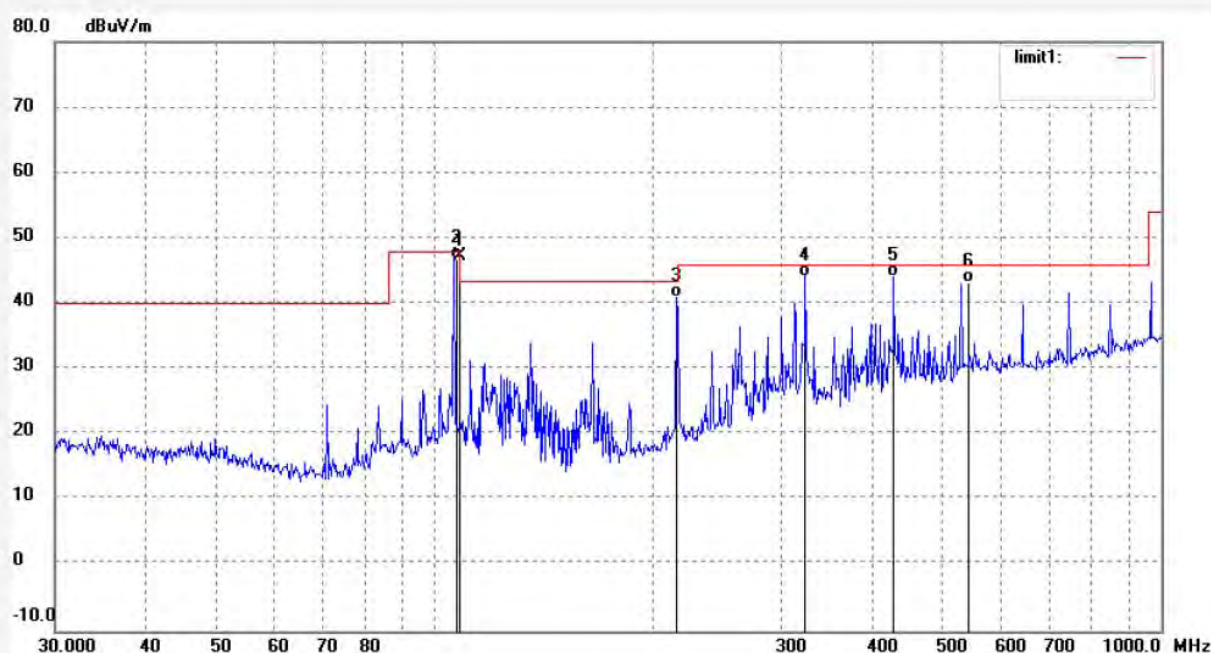
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: ALEN #287
Standard: FCC PART 15 (FMT)
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 49 %
EUT: MP3 Player
Mode: FM 107.9MHz(USB)
Model: CP3004(KW-CP3904)
Manufacturer: Kintech

Polarization: Vertical
Power Source: DC 12V
Date: 12/09/17/
Time: 9/19/01
Engineer Signature:
Distance: 3m

Note: Report No.:ATE20122076



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	107.9000	33.29	13.95	47.24	68.00	-20.76	peak			
2	107.9000	32.77	13.95	46.72	48.00	-1.28	AVG			
3	215.3616	26.25	14.62	40.87	43.50	-2.63	QP			
4	323.7000	24.58	19.50	44.08	46.00	-1.92	QP			
5	431.6000	21.20	22.96	44.16	46.00	-1.84	QP			
6	539.5000	18.21	24.93	43.14	46.00	-2.86	QP			



ACCURATE TECHNOLOGY CO., LTD.

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

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: ALEN #300

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: MP3 Player

Mode: FM 107.9MHz(USB)

Model: CP3004(KW-CP3904)

Manufacturer: Kintech

Polarization: Horizontal

Power Source: DC 12V

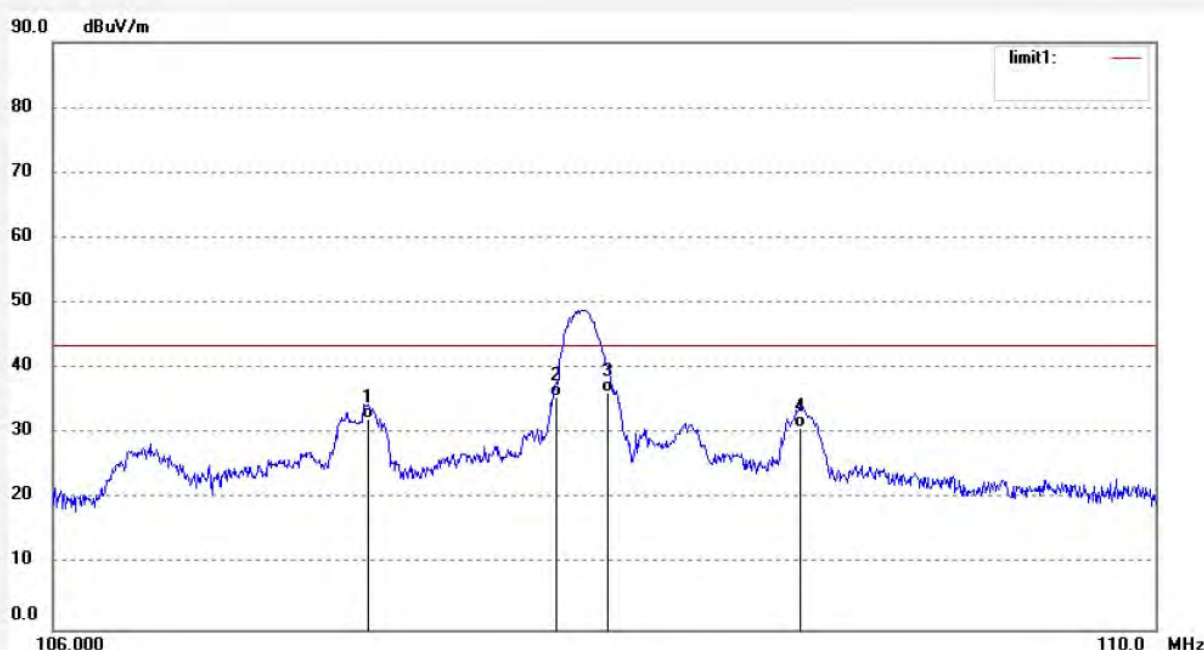
Date: 12/09/17/

Time: 9/35/39

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20122076



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	107.1312	18.32	13.94	32.26	43.50	-11.24	QP			
2	107.8000	21.68	13.95	35.63	43.50	-7.87	QP			
3	108.0000	22.30	13.95	36.25	43.50	-7.25	QP			
4	108.6932	16.87	13.96	30.83	43.50	-12.67	QP			



ACCURATE TECHNOLOGY CO., LTD.

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

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

Job No.: ALEN #299

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: MP3 Player

Mode: FM 107.9MHz(USB)

Model: CP3004(KW-CP3904)

Manufacturer: Kintech

Polarization: Vertical

Power Source: DC 12V

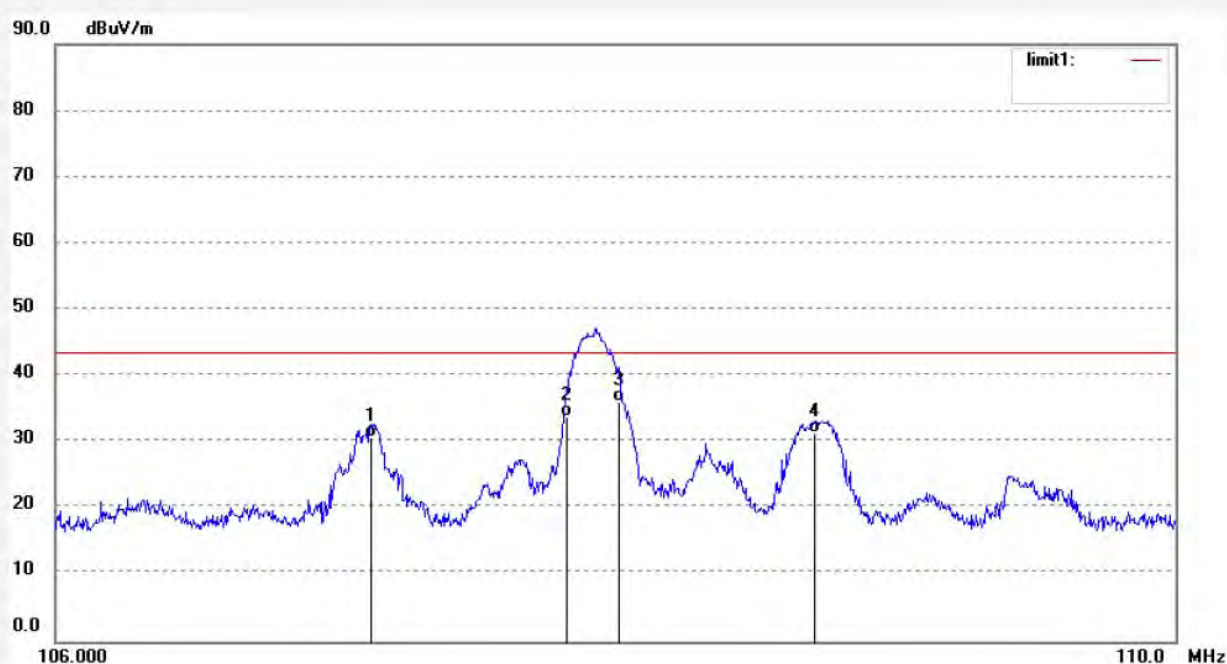
Date: 12/09/17/

Time: 9/35/09

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20122076



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	107.1110	16.68	13.94	30.62	43.50	-12.88	QP			
2	107.8000	19.97	13.95	33.92	43.50	-9.58	QP			
3	108.0000	22.07	13.95	36.02	43.50	-7.48	QP			
4	108.6971	17.36	13.96	31.32	43.50	-12.18	QP			



ACCURATE TECHNOLOGY CO., LTD.

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

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: ALEN #281

Standard: FCC PART 15 (FMT)

Test item: Radiation Test

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

EUT: MP3 Player

Mode: FM 88.1MHz(SD)

Model: CP3004(KW-CP3904)

Manufacturer: Kintech

Polarization: Horizontal

Power Source: DC 12V

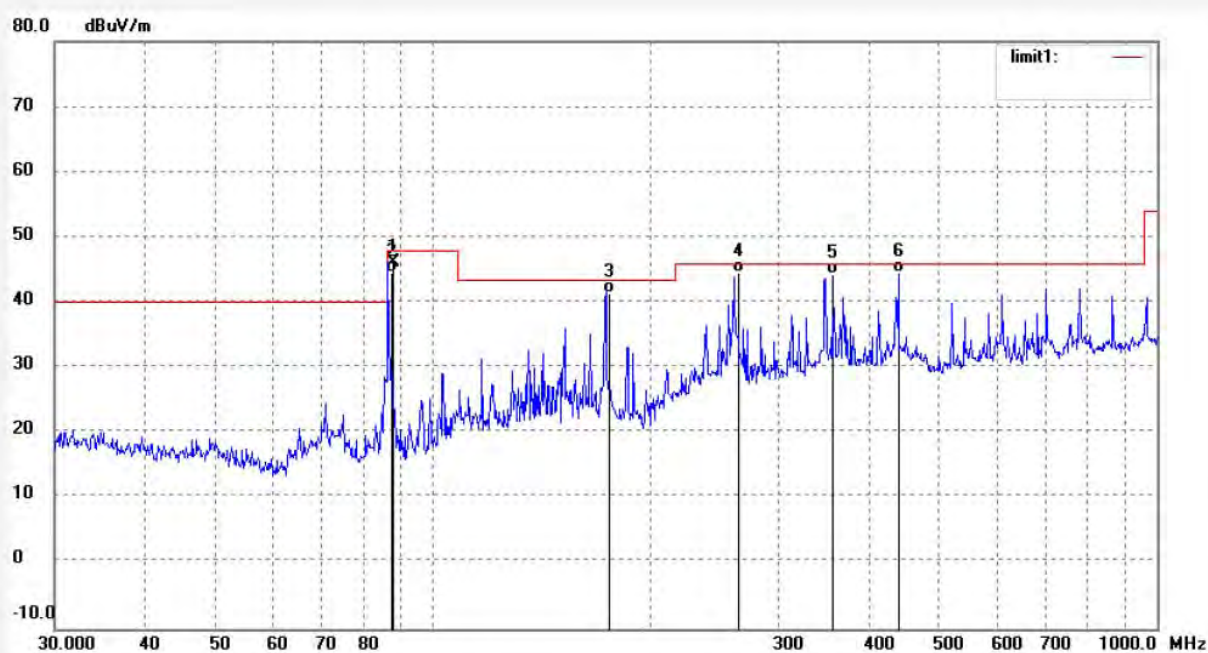
Date: 12/09/17/

Time: 9/08/42

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20122076



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	88.1000	32.36	13.75	46.11	68.00	-21.89	peak			
2	88.1000	30.81	13.75	44.56	48.00	-3.44	AVG			
3	176.2000	28.48	12.98	41.46	43.50	-2.04	QP			
4	264.3000	25.81	18.66	44.47	46.00	-1.53	QP			
5	352.4000	23.45	20.94	44.39	46.00	-1.61	QP			
6	440.5000	21.69	22.85	44.54	46.00	-1.46	QP			



ACCURATE TECHNOLOGY CO., LTD.

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

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

Job No.: ALEN #282

Standard: FCC PART 15 (FMT)

Test item: Radiation Test

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

EUT: MP3 Player

Mode: FM 88.1MHz(SD)

Model: CP3004(KW-CP3904)

Manufacturer: Kintech

Polarization: Vertical

Power Source: DC 12V

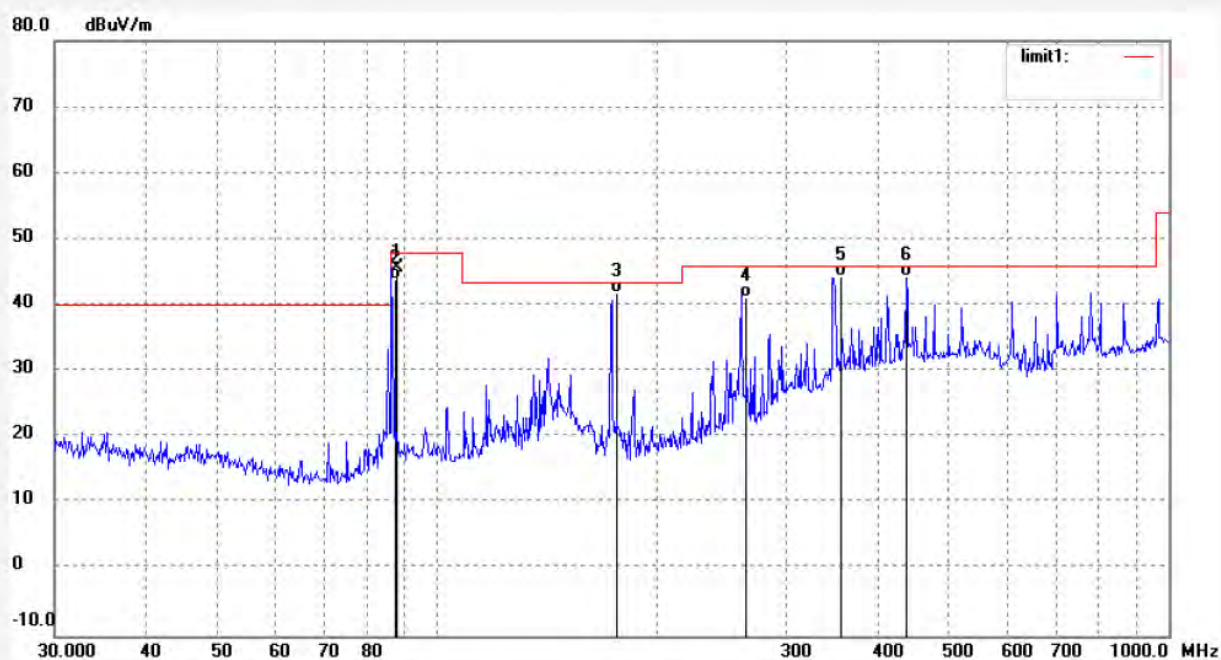
Date: 12/09/17/

Time: 9/10/14

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20122076



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	88.1000	32.03	13.75	45.78	68.00	-22.22	peak			
2	88.1000	30.06	13.75	43.81	48.00	-4.19	AVG			
3	176.2000	28.80	12.98	41.78	43.50	-1.72	QP			
4	264.3000	22.48	18.66	41.14	46.00	-4.86	QP			
5	352.4000	23.41	20.94	44.35	46.00	-1.65	QP			
6	440.5000	21.45	22.85	44.30	46.00	-1.70	QP			



ACCURATE TECHNOLOGY CO., LTD.

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

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

Job No.: ALEN #296

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: MP3 Player

Mode: FM 88.1MHz(SD)

Model: CP3004(KW-CP3904)

Manufacturer: Kintech

Polarization: Horizontal

Power Source: DC 12V

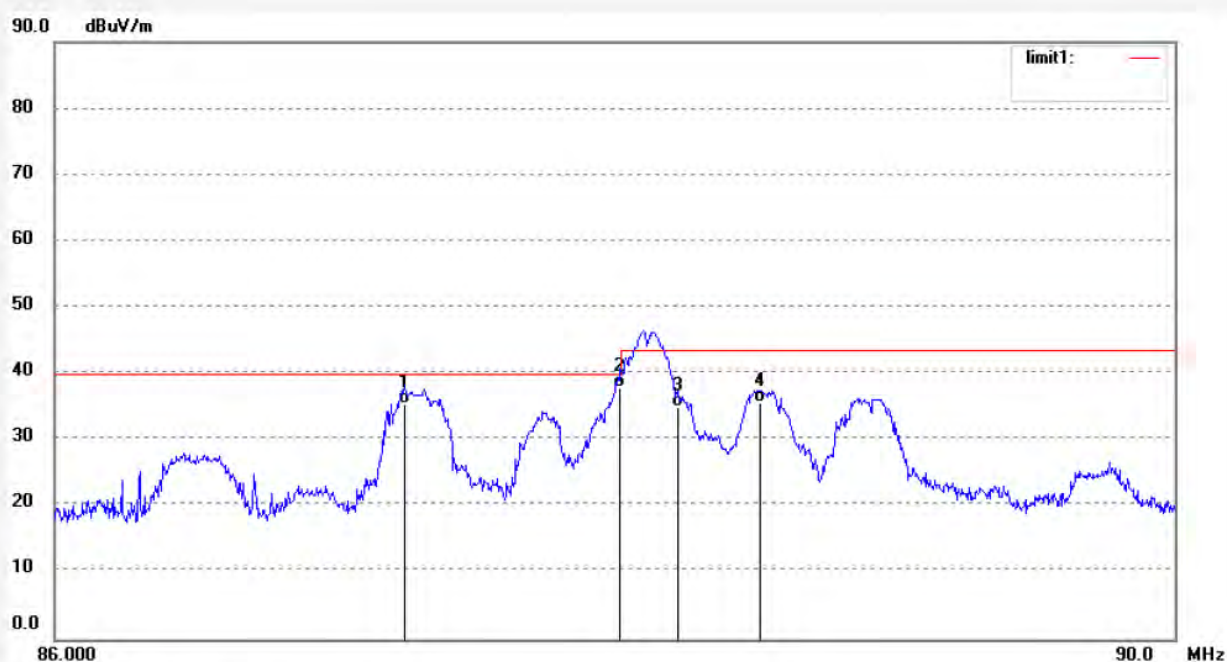
Date: 12/09/17/

Time: 9/30/39

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20122076



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	87.2309	21.69	13.70	35.39	40.00	-4.61	QP			
2	88.0000	24.07	13.74	37.81	40.00	-2.19	QP			
3	88.2000	21.20	13.75	34.95	43.50	-8.55	QP			
4	88.4997	21.98	13.77	35.75	43.50	-7.75	QP			



ACCURATE TECHNOLOGY CO., LTD.

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

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: ALEN #295

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: MP3 Player

Mode: FM 88.1MHz(SD)

Model: CP3004(KW-CP3904)

Manufacturer: Kintech

Polarization: Vertical

Power Source: DC 12V

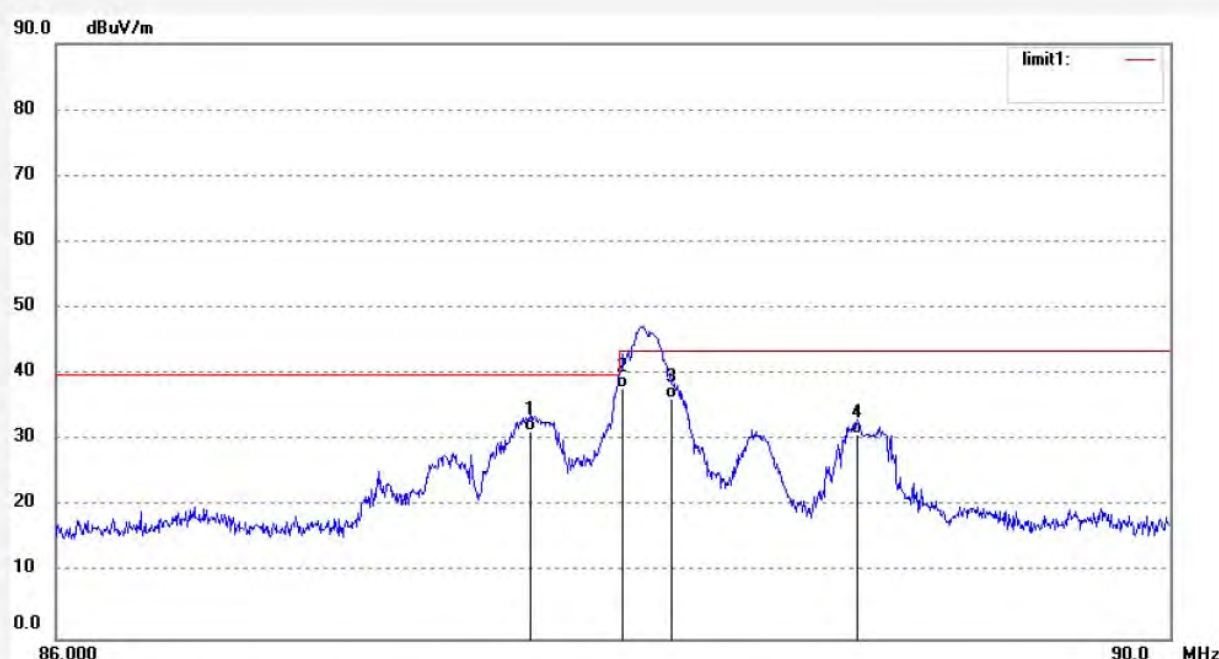
Date: 12/09/17/

Time: 9/30/03

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20122076



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	87.6890	17.68	13.72	31.40	40.00	-8.60	QP			
2	88.0013	24.20	13.74	37.94	43.50	-5.56	QP			
3	88.1979	22.61	13.75	36.36	43.50	-7.14	QP			
4	88.8593	17.24	13.80	31.04	43.50	-12.46	QP			



ACCURATE TECHNOLOGY CO., LTD.

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

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: ALEN #292

Standard: FCC PART 15 (FMT)

Test item: Radiation Test

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

EUT: MP3 player

Mode: FM 98.1MHz(SD)

Model: CP3004(KW-CP3904)

Manufacturer: Kintech

Polarization: Horizontal

Power Source: DC 12V

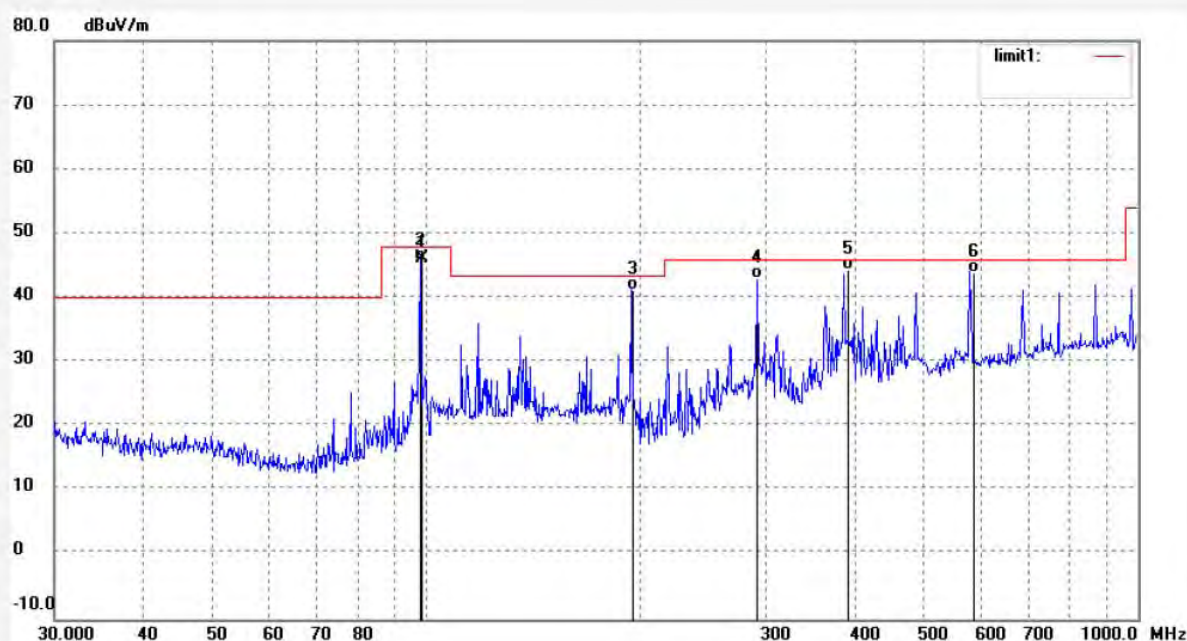
Date: 12/09/17/

Time: 9/24/11

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20122076



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	98.1000	32.07	14.03	46.10	68.00	-21.90	peak			
2	98.1000	31.57	14.03	45.60	48.00	-2.40	AVG			
3	196.2000	27.25	14.03	41.28	43.50	-2.22	QP			
4	294.3000	24.38	18.60	42.98	46.00	-3.02	QP			
5	392.4000	22.41	21.97	44.38	46.00	-1.62	QP			
6	588.6000	18.54	25.40	43.94	46.00	-2.06	QP			



ACCURATE TECHNOLOGY CO., LTD.

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

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: ALEN #291

Standard: FCC PART 15 (FMT)

Test item: Radiation Test

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

EUT: MP3 Player

Mode: FM 98.1MHz(SD)

Model: CP3004(KW-CP3904)

Manufacturer: Kintech

Polarization: Vertical

Power Source: DC 12V

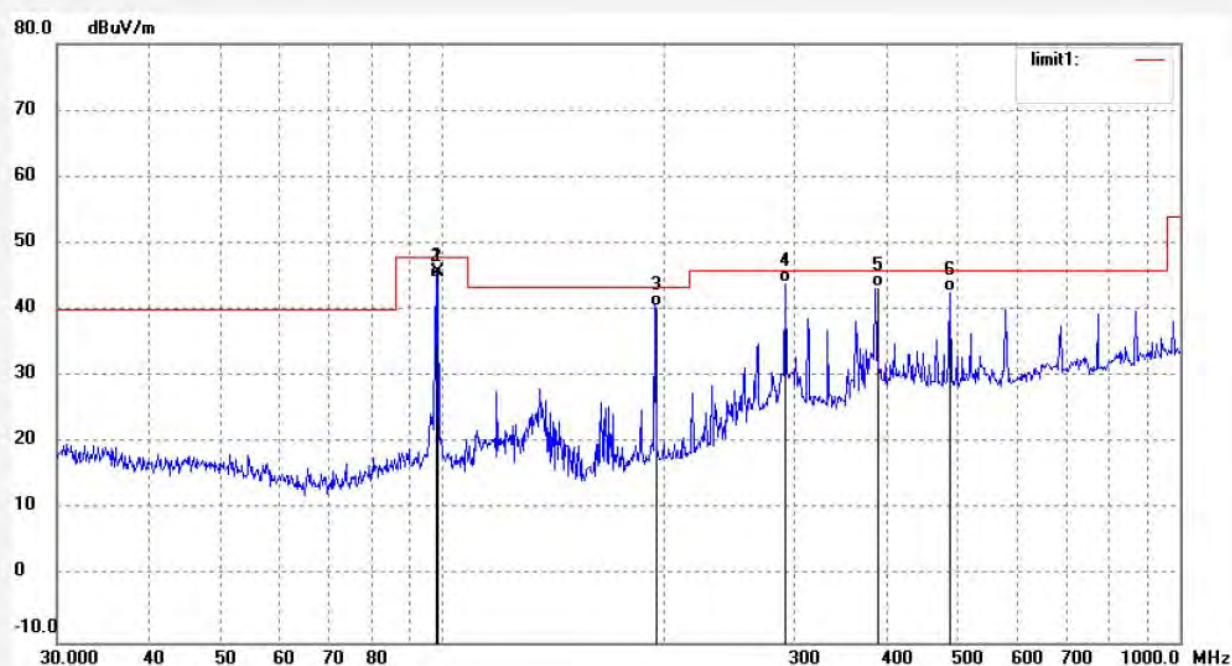
Date: 12/09/17/

Time: 9/23/27

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20122076



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	98.1000	31.76	14.03	45.79	68.00	-22.21	peak			
2	98.1000	30.67	14.03	44.70	48.00	-3.30	AVG			
3	196.2000	26.49	14.03	40.52	43.50	-2.98	QP			
4	294.3000	25.51	18.60	44.11	46.00	-1.89	QP			
5	392.4000	21.48	21.97	43.45	46.00	-2.55	QP			
6	490.4000	18.75	23.93	42.68	46.00	-3.32	QP			



ACCURATE TECHNOLOGY CO., LTD.

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

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: ALEN #471

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: MP3 player

Mode: FM 98.1MHz(SD)

Model: CP3004(KW-CP3904)

Manufacturer: Kintech

Polarization: Horizontal

Power Source: DC 12V

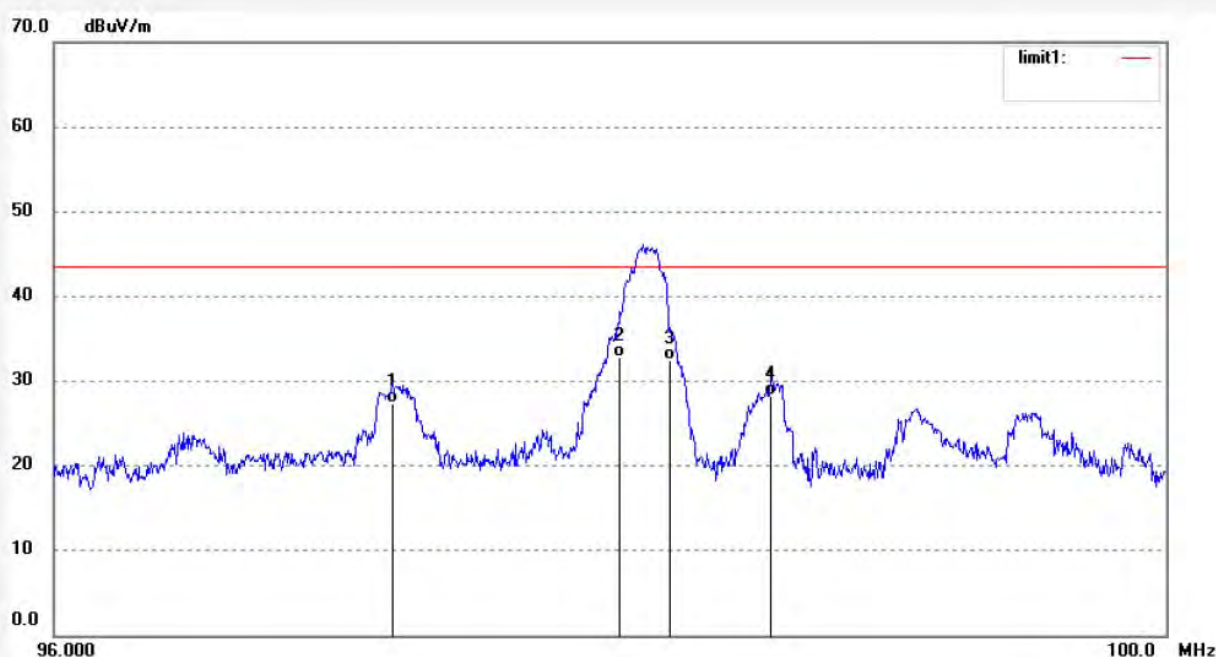
Date: 2012/11/07

Time: 17:34:35

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20122076



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	97.2011	13.02	14.40	27.42	43.50	-16.08	QP			
2	98.0000	18.32	14.51	32.83	43.50	-10.67	QP			
3	98.2000	17.85	14.54	32.39	43.50	-11.11	QP			
4	98.5584	13.60	14.58	28.18	43.50	-15.32	QP			



ACCURATE TECHNOLOGY CO., LTD.

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

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: ALEN #470

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: MP3 player

Mode: FM 98.1MHz(SD)

Model: CP3004(KW-CP3904)

Manufacturer: Kintech

Polarization: Vertical

Power Source: DC 12V

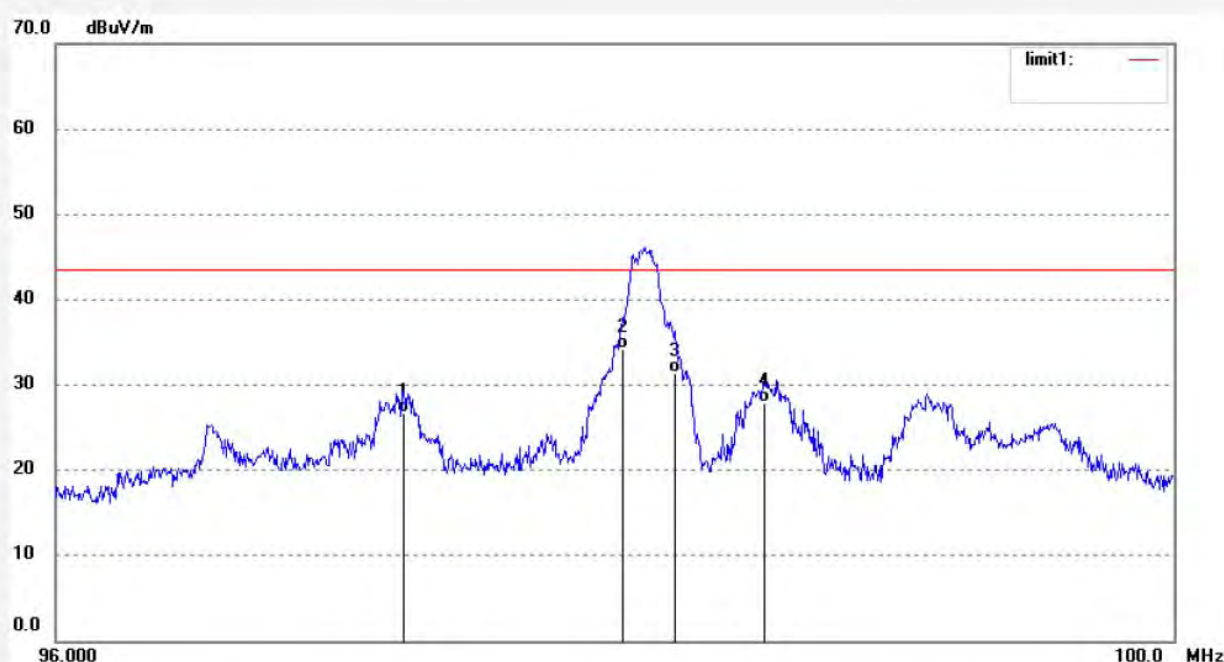
Date: 2012/11/07

Time: 17:34:35

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20122076



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	97.2288	12.36	14.41	26.77	43.50	-16.73	QP			
2	98.0000	19.69	14.51	34.20	43.50	-9.30	QP			
3	98.2000	16.89	14.54	31.43	43.50	-12.07	QP			
4	98.5181	13.36	14.58	27.94	43.50	-15.56	QP			



ACCURATE TECHNOLOGY CO., LTD.

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

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: ALEN #289

Standard: FCC PART 15 (FMT)

Test item: Radiation Test

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

EUT: MP3 Player

Mode: FM 107.9MHz(SD)

Model: CP3004(KW-CP3904)

Manufacturer: Kintech

Polarization: Horizontal

Power Source: DC 12V

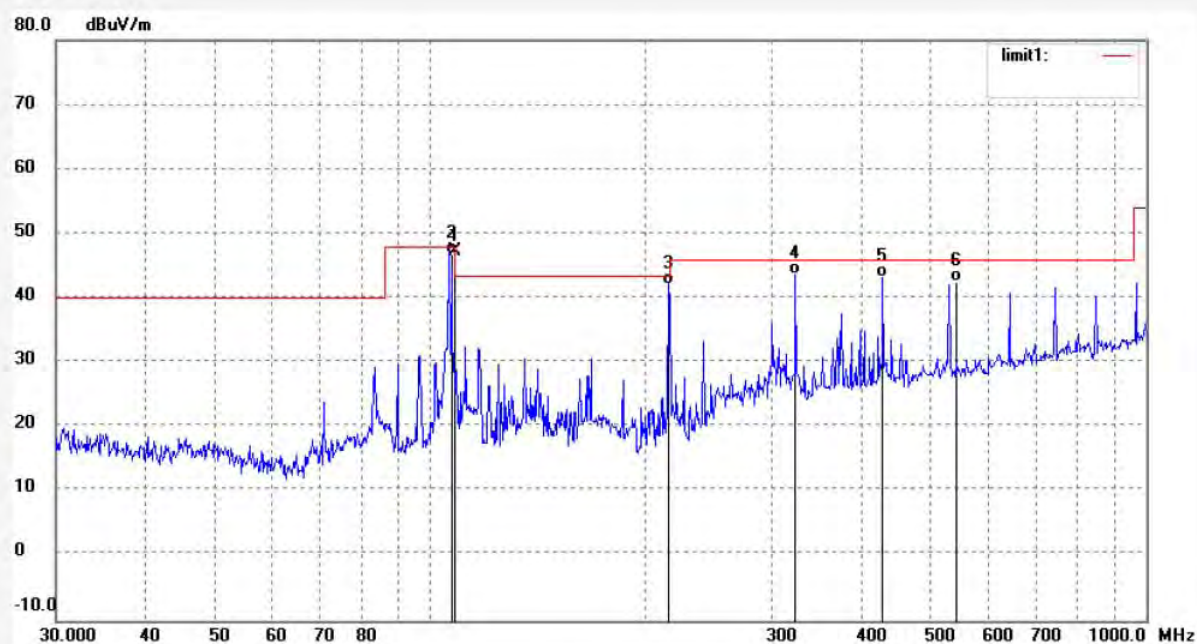
Date: 12/09/17/

Time: 9/20/50

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20122076



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	107.9000	33.35	13.95	47.30	68.00	-20.70	peak			
2	107.9000	32.84	13.95	46.79	48.00	-1.21	AVG			
3	215.8000	27.45	14.72	42.17	43.50	-1.33	QP			
4	323.7000	24.12	19.50	43.62	46.00	-2.38	QP			
5	431.6000	20.23	22.96	43.19	46.00	-2.81	QP			
6	539.5000	17.58	24.93	42.51	46.00	-3.49	QP			



ACCURATE TECHNOLOGY CO., LTD.

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

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

Job No.: ALEN #290

Standard: FCC PART 15 (FMT)

Test item: Radiation Test

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

EUT: MP3 Player

Mode: FM 107.9MHz(SD)

Model: CP3004(KW-CP3904)

Manufacturer: Kintech

Polarization: Vertical

Power Source: DC 12V

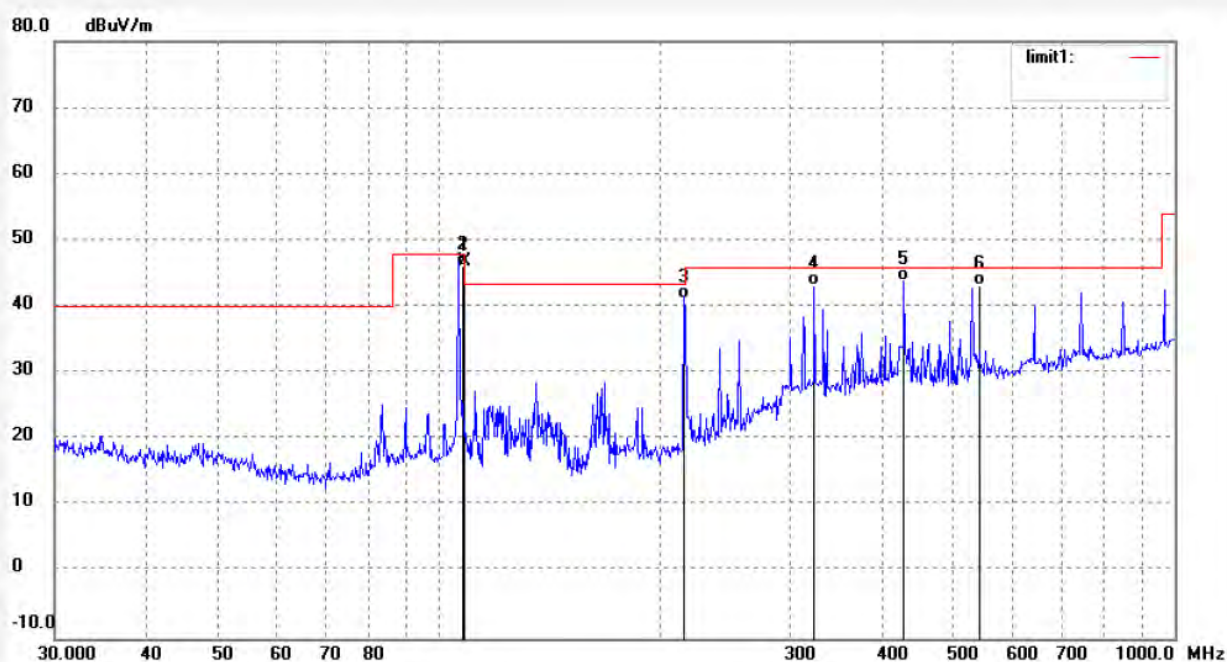
Date: 12/09/17/

Time: 9/21/36

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20122076



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	107.9000	32.84	13.95	46.79	68.00	-21.21	peak			
2	107.9000	32.21	13.95	46.16	48.00	-1.84	AVG			
3	215.8000	26.47	14.72	41.19	43.50	-2.31	QP			
4	323.7000	23.74	19.50	43.24	46.00	-2.76	QP			
5	431.6000	20.84	22.96	43.80	46.00	-2.20	QP			
6	539.5000	18.36	24.93	43.29	46.00	-2.71	QP			



ACCURATE TECHNOLOGY CO., LTD.

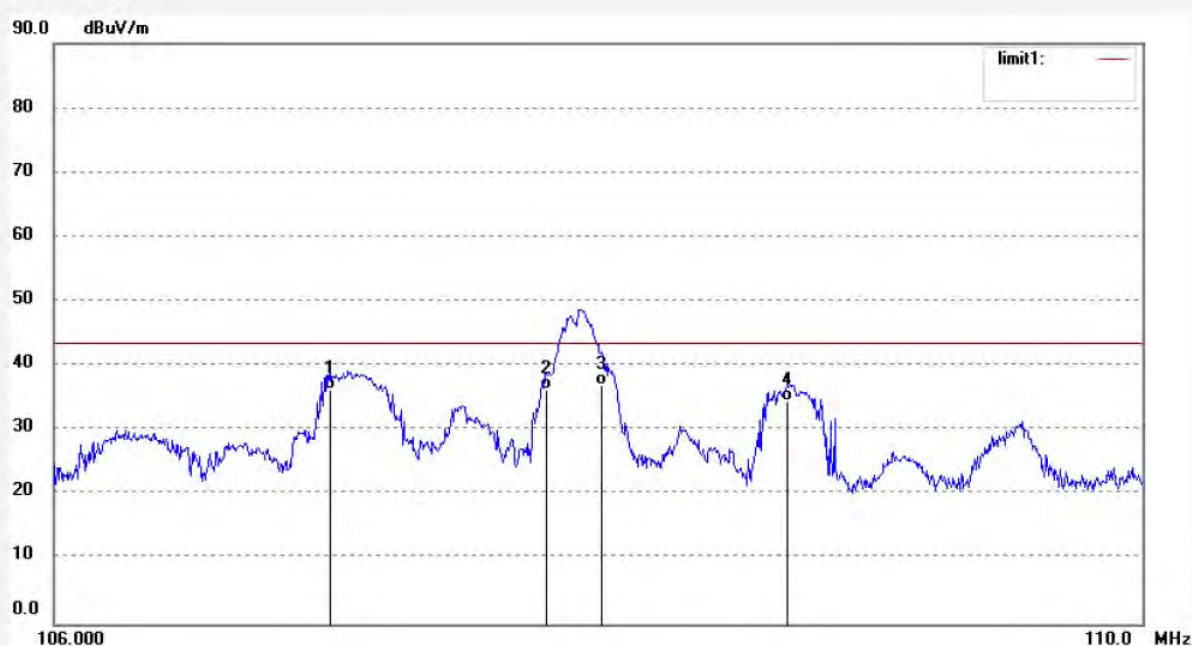
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: ALEN #293
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 49 %
EUT: MP3 Player
Mode: FM 107.9MHz(SD)
Model: CP3004(KW-CP3904)
Manufacturer: Kintech

Polarization: Horizontal
Power Source: DC 12V
Date: 12/09/17/
Time: 9/27/17
Engineer Signature:
Distance: 3m

Note: Report No.:ATE20122076



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	107.0001	22.34	13.94	36.28	43.50	-7.22	QP			
2	107.8000	22.47	13.95	36.42	43.50	-7.08	QP			
3	108.0000	23.07	13.95	37.02	43.50	-6.48	QP			
4	108.6851	20.57	13.96	34.53	43.50	-8.97	QP			



ACCURATE TECHNOLOGY CO., LTD.

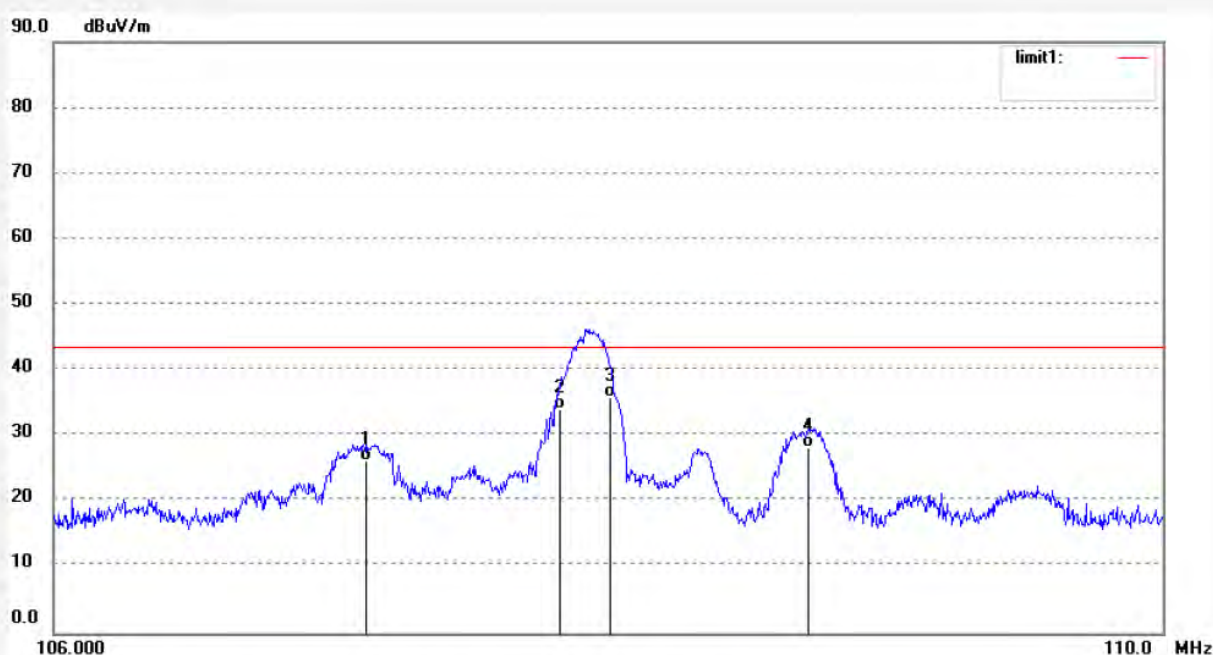
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: ALEN #294
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 49 %
EUT: MP3 Player
Mode: FM 107.9MHz(SD)
Model: CP3004(KW-CP3904)
Manufacturer: Kintech

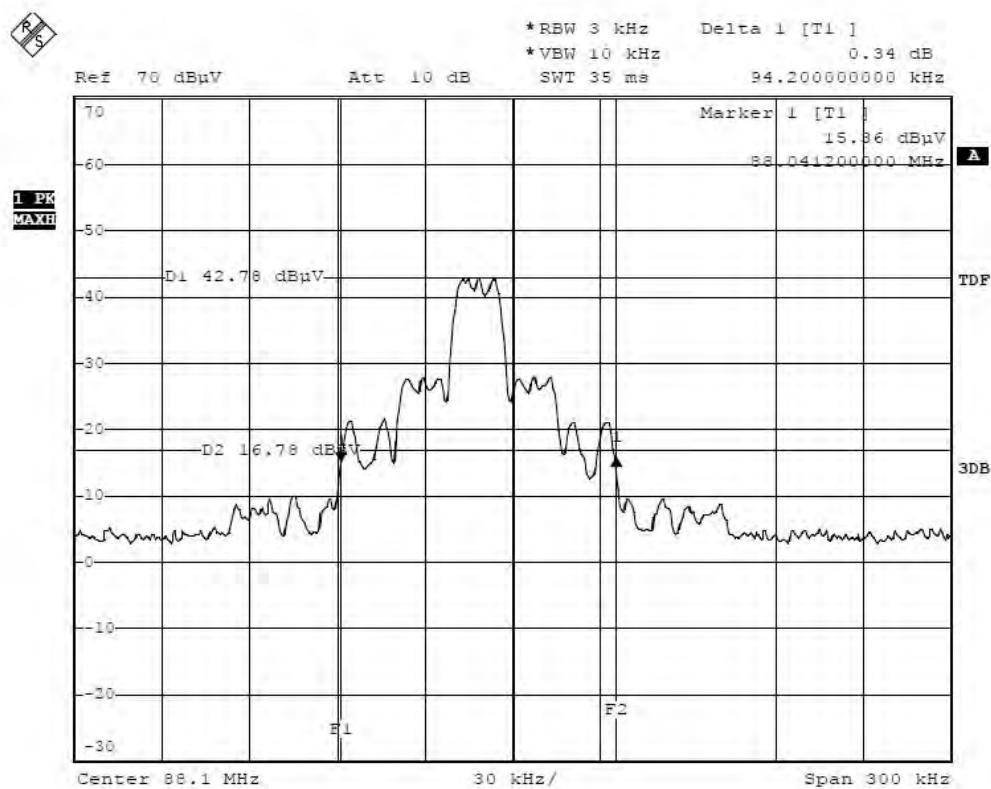
Polarization: Vertical
Power Source: DC 12V
Date: 12/09/17/
Time: 9/27/48
Engineer Signature:
Distance: 3m

Note: Report No.:ATE20122076

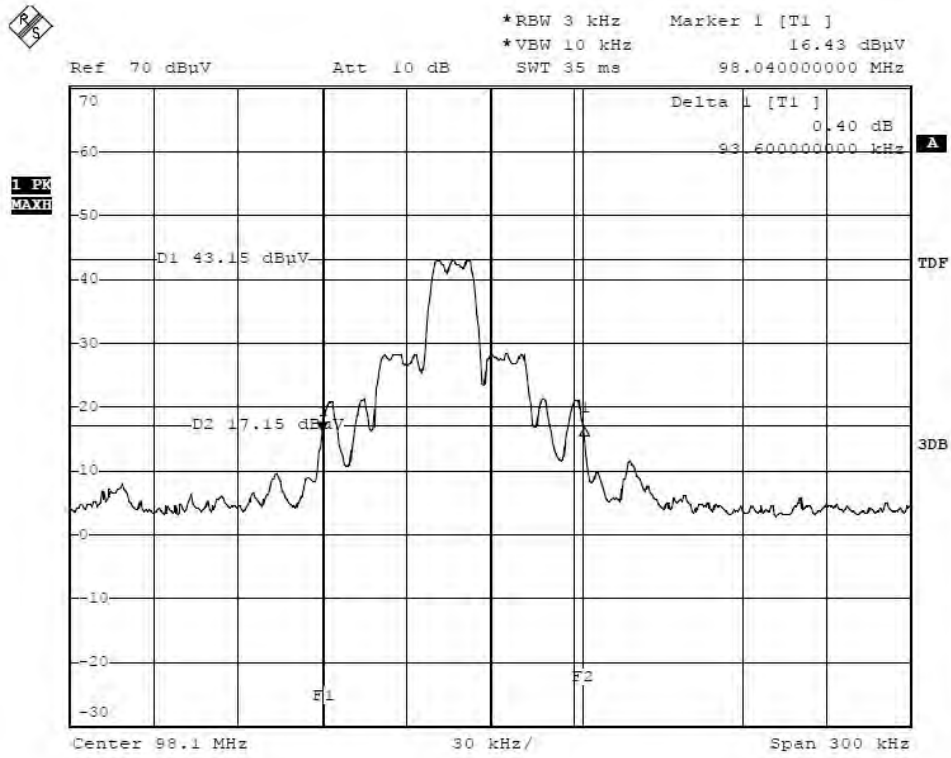


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	107.1110	12.30	13.94	26.24	43.50	-17.26	QP			
2	107.8011	20.12	13.95	34.07	43.50	-9.43	QP			
3	107.9975	21.86	13.95	35.81	43.50	-7.69	QP			
4	108.7052	14.24	13.96	28.20	43.50	-15.30	QP			

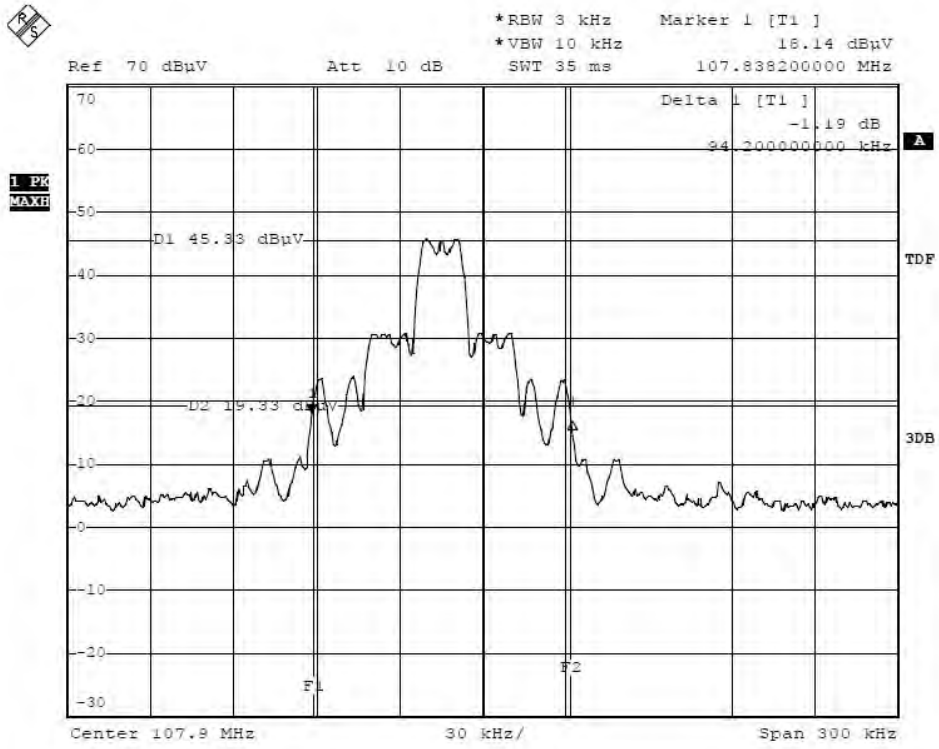
Line in (Connect to iPod)



Date: 16.OCT.2012 10:38:00

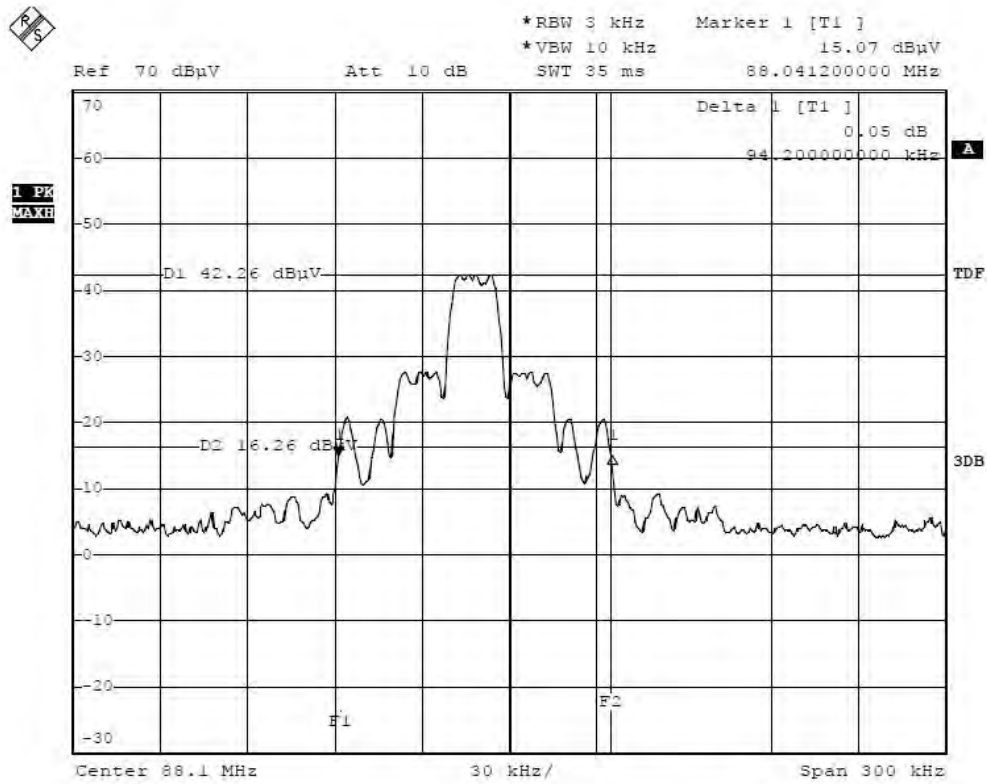


Date: 16.OCT.2012 10:51:54

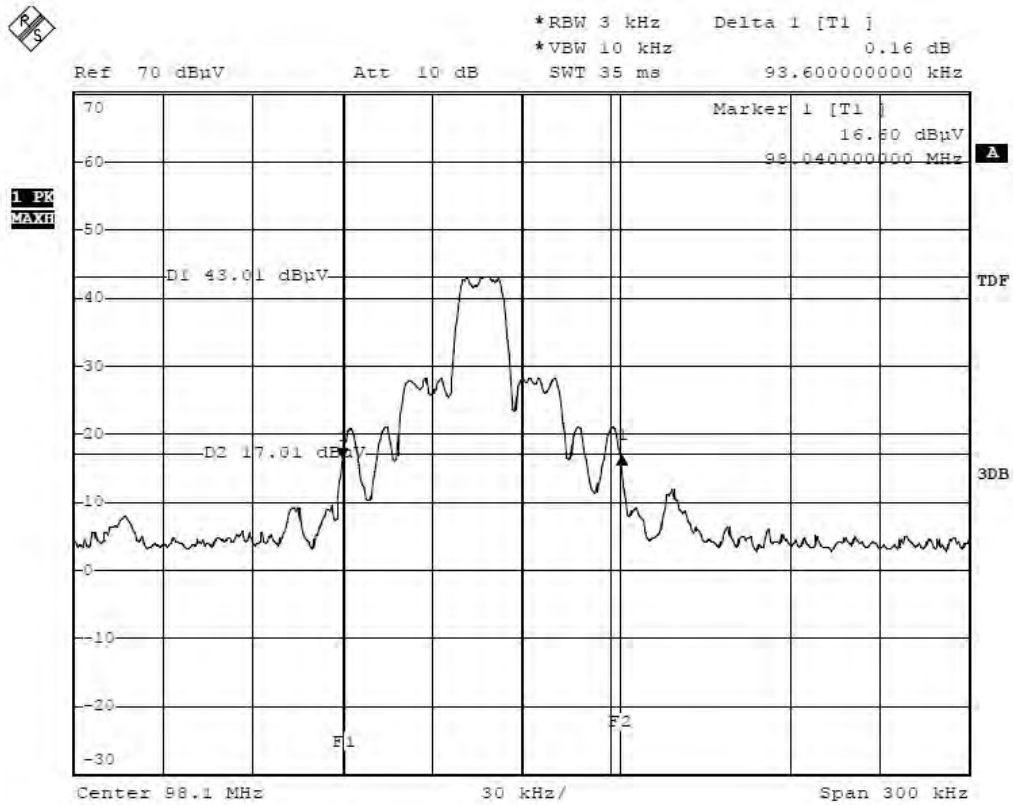


Date: 16.OCT.2012 11:10:32

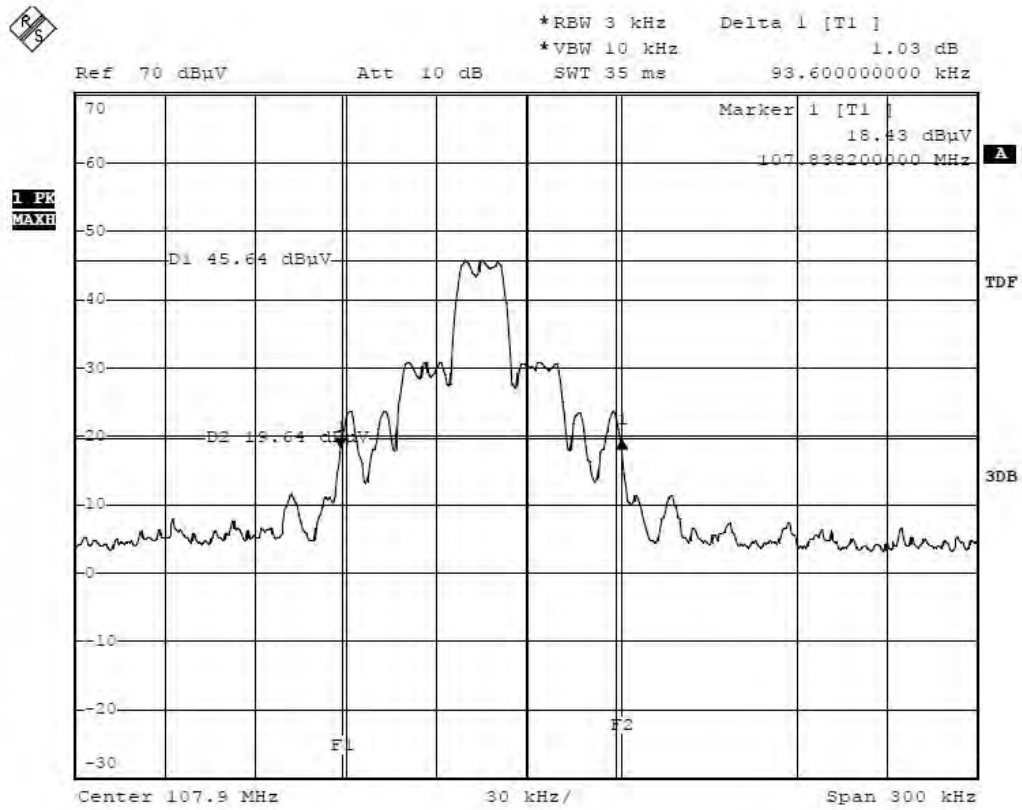
USB playing (Connect to USB Memory Disk)



Date: 16.OCT.2012 10:41:13

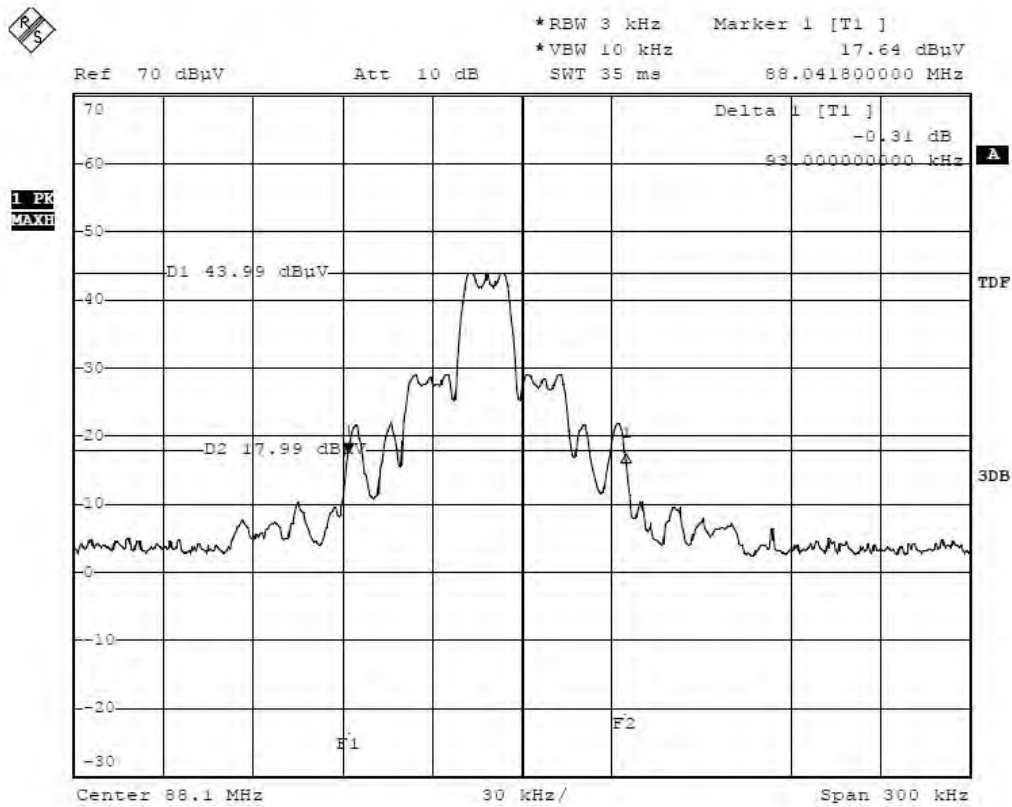


Date: 16.OCT.2012 10:54:27

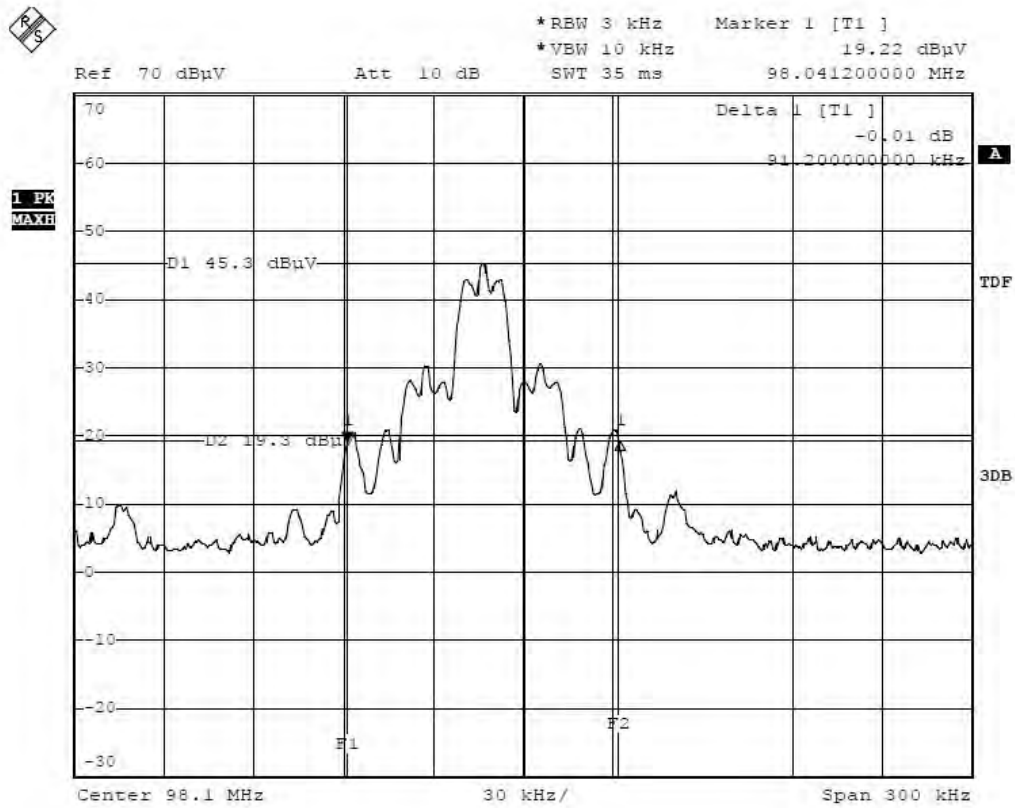


Date: 16.OCT.2012 11:15:30

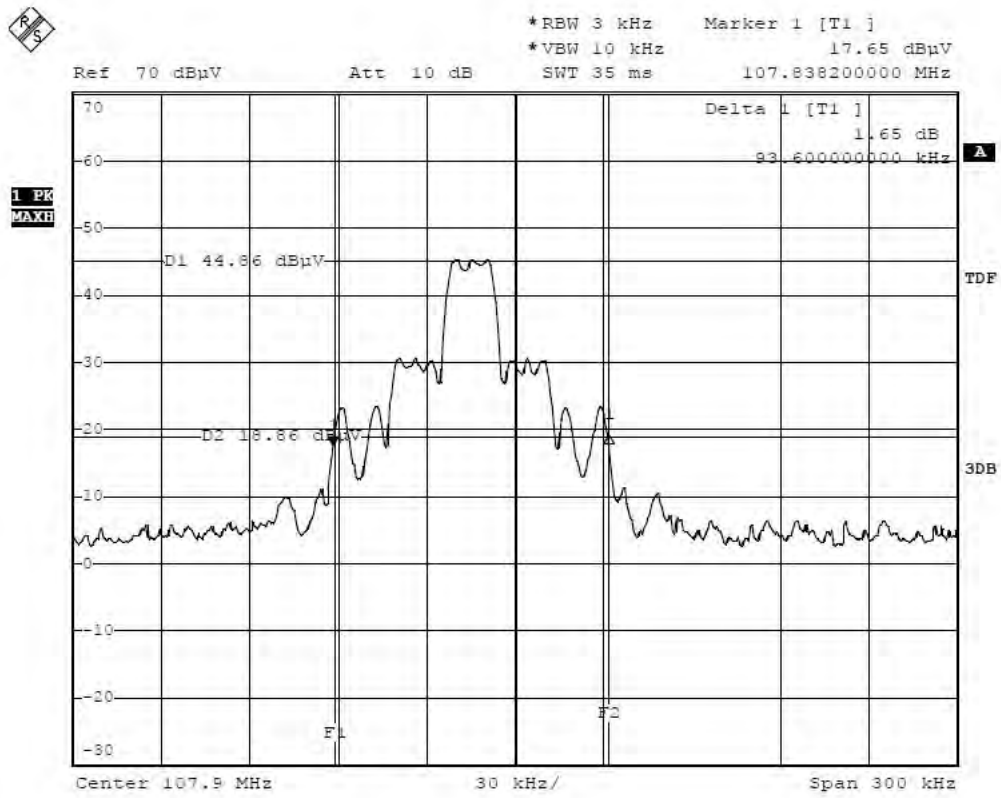
SD Card playing (Connect to Memory Card)



Date: 16.OCT.2012 10:43:12



Date: 16.OCT.2012 10:57:38



Date: 16.OCT.2012 11:21:40