



SHENZHEN MOST ELECTRONICS CO., LTD.

Tel: (86) 755-26825180 Fax: (86) 755-86170310

Http:// www. szmost.com Email: szmost@szmost.com

## **Test Report**

Product Name: iPod/MP3 Player for FM Radio

FCC ID: UZY489702116

Applicant:

**FMP-3 COMPANY CO., LTD.**

**3/F., Jonsim Place, 228 Queen's Road East Wanchai, Hong Kong**

**Date Received: 3/01/2007**

**Date Tested: 3/01/2007**

APPLICANT: FMP-3 COMPANY CO., LTD.

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Cover Sheet



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## TABLE OF CONTENTS

**APPLICANT:** FMP-3 COMPANY CO., LTD.

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### TEST REPORT CONTAINING:

PAGE 1.....TEST EQUIPMENT LIST  
PAGE 2.....TEST PROCEDURE  
PAGE 3-5.....POWER LINE CONDUCTED INTERFERENCE AND PLOTS  
PAGE 6-7.....RADIATION INTERFERENCE TEST DATA  
PAGE 8-14.....OCCUPIED BANDWIDTH AND PLOTS

### EXHIBIT INCLUDED:

PAGE 1.....BLOCK DIAGRAM  
PAGE 2.....SCHEMATIC  
PAGE 3.....USERS MANUAL  
PAGE 4.....LABEL SAMPLE  
PAGE 5.....LABEL LOCATION  
PAGE 6.....EXTERNAL PHOTOGRAPHS  
PAGE 7.....INTERNAL PHOTOGRAPHS  
PAGE 8.....OPERATIONAL DESCRIPTION  
PAGE 9.....TEST SET UP PHOTOGRAPHS

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TABLE OF CONTENTS



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#### EMC Equipment List

Test Equipment	Manufacturer	Model	Serial No.	Last Cal.	Cal. Due
EMI Test Receiver	R&S	ESCS 30	640101048	2006-06-08	2007-06-08
LISN	R&S	ESH2-Z5	640201028-0	2006-06-08	2007-06-08
EMI Test Receiver	R&S	ESMI	640201028	2006-06-08	2007-06-08
BiConiLog antenna	ETS•Lindgren	3142B	00026414	2006-06-08	2007-06-08
Double ridge horn Antenna	EMCO	3115	640201028-0 8	2006-06-08	2007-06-08
Chamber	ETS•Lindgren	RFSD-F-100	2693	2006-06-08	2007-06-08
Radio communication tester	R&S	CMU200	106389	2006-08-08	2007-08-08

Remark:

Test Firm Name: CHINA CEPREI (HEADQUARTERS) LABORATORY

Test Firm Address: NO 110 DONGGUANZHUANG ROAD, TIANHE DISTRICT, GUANGZHOU 510610,  
P.R. CHINA

FCC Registered Test Site Number: 258518



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## TEST PROCEDURE

**GENERAL:** This report shall NOT be reproduced except in full without the written approval of SHENZHEN MOST ELECTRONICS CO., LTD. The EUT was transmitting a test signal during the testing.

**POWER LINE CONDUCTED INTERFERENCE:** The test procedure used was ANSI Standard C63.4-2003 using a 50 UH LISN. Both Lines were observed. The bandwidth of the receiver was 10kHz with an appropriate sweep speed. The ambient temperature of the EUT was 25 with a humidity of 58%.

**RADIATION INTERFERENCE:** The test procedure used was ANSI Standard C63.4-2003 using a ANRITSU spectrum analyzer with a pre-selector. The analyzer was calibrated in dB above a micro volt at the output of the antenna. The resolution bandwidth was 100 kHz and the video bandwidth was 300 kHz up to 1 GHz and 1 MHz with a video BW of 3 MHz above 1 GHz. The ambient temperature of the EUT was 25 with a humidity of 58%.

**FORMULA OF CONVERSION FACTORS:** The Field Strength at 3m was established by adding the meter reading of the spectrum analyzer (which is set to read in units of dBuV) to the antenna correction factor supplied by the antenna manufacturer. The antenna correction factors are stated in terms of dB. The gain of the Pre-selector was accounted for in the Spectrum Analyzer Meter Reading.

Example:

Freq (MHz) METER READING + ACF = FS

33                      20 dBuV + 10.36 dB = 30.36 dBuV/m @ 3m

**ANSI STANDARD C63.4-2003 10.1.7 MEASUREMENT PROCEDURES:** The EUT was placed on a table 80 cm high and with dimensions of 1m by 1.5m. The EUT was placed in the center of the table (1.5m side). The table used for radiated measurements is capable of continuous rotation.

When an emission was found, the table was rotated to produce the maximum signal strength. At this point, the antenna was raised and lowered from 1m to 4m. The antenna was placed in both the horizontal and vertical planes.

The situation was similar for the conducted measurement except that the table did not rotate. The EUT was setup as described in ANSI Standard C63.4-2003 10.1.7 with the EUT 40 cm from the vertical ground wall.



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**APPLICANT:** FMP-3 COMPANY CO., LTD.  
**FCC ID:** UZY489702116  
**NAME OF TEST:** POWER LINE CONDUCTED INTERFERENCE  
**RULES PART NUMBER:** 15.107

<b>MINIMUM REQUIREMENTS:</b>	<b>FREQUENCY</b>	<b>LEVEL</b>
	<b>MHz</b>	<b>UV</b>
	0.150-30	250

**TEST PROCEDURE:** ANSI STANDARD C63.4-2003

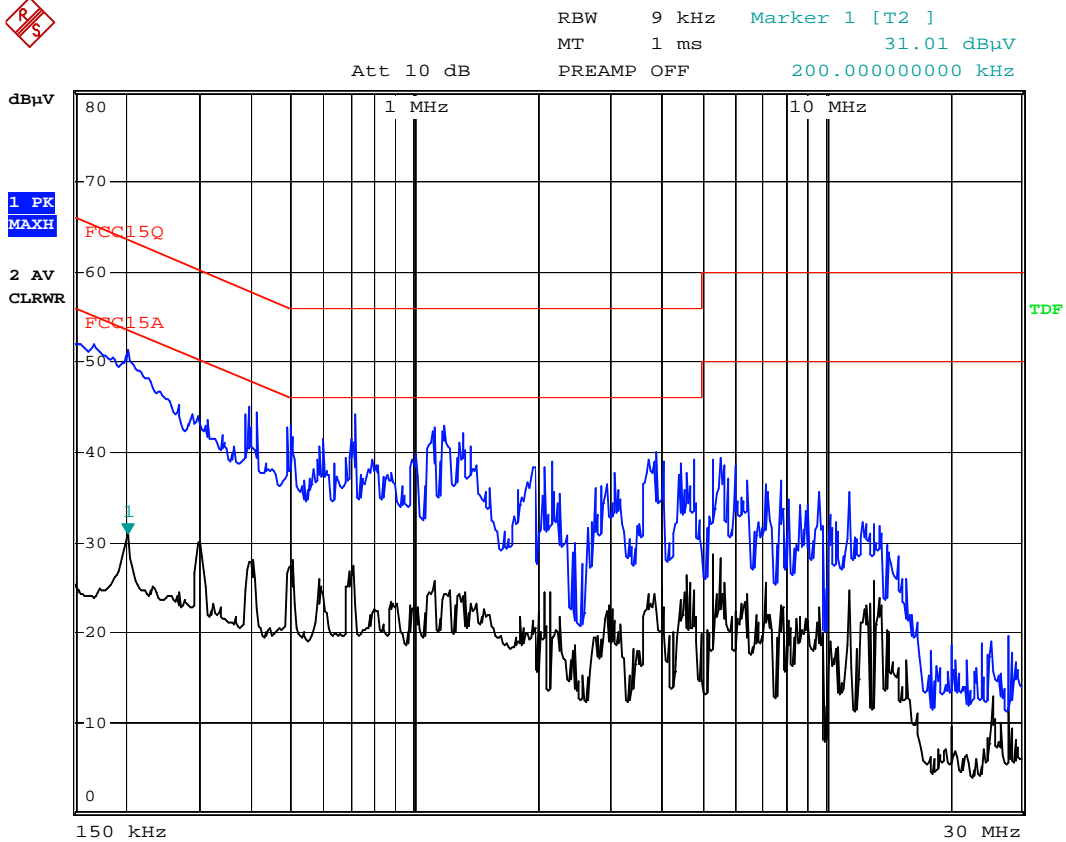
THE HIGHEST EMISSION READ FOR LINE 1 WAS 37.6dBuV @ 695kHz.

THE HIGHEST EMISSION READ FOR LINE 2 WAS 38.8dBuV @ 696kHz.

THE PLOTS ON THE NEXT PAGE REPRESENT THE EMISSIONS READ FOR POWER LINE CONDUCTED FOR THIS DEVICE.



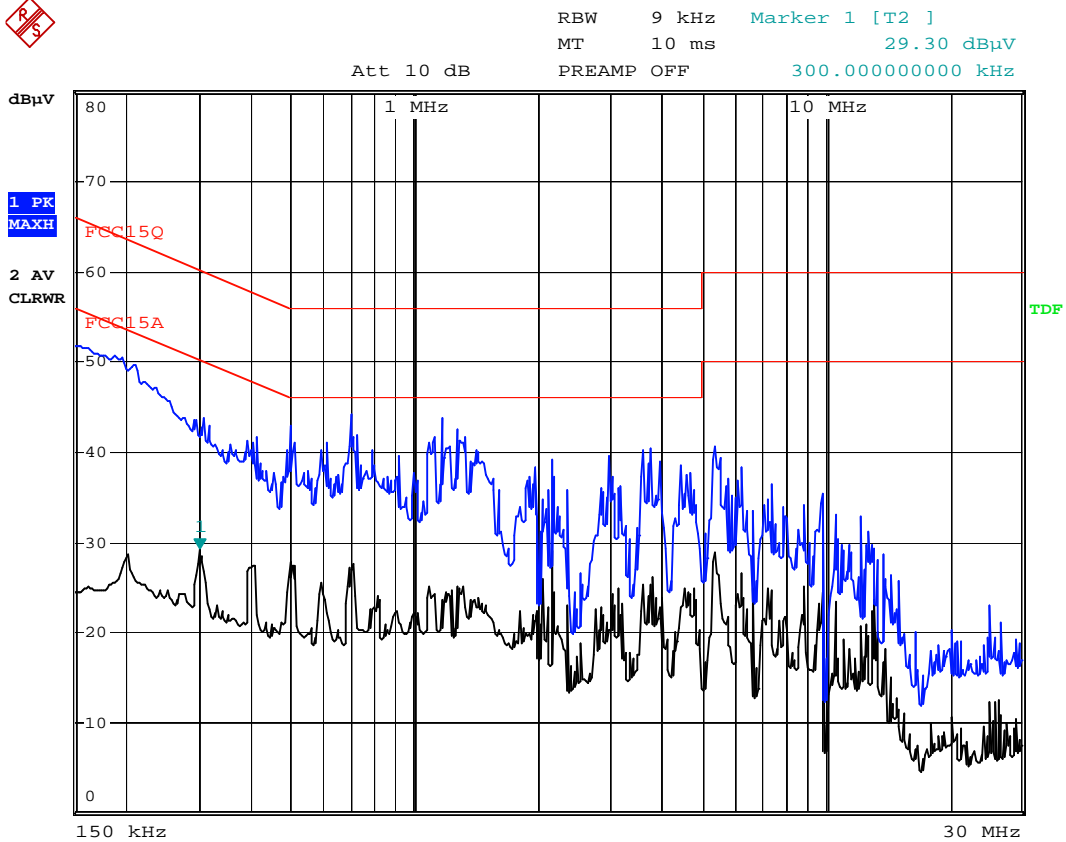
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**APPLICANT:** FMP-3 COMPANY CO., LTD.

**FCC ID:** UZY489702116

**NAME OF TEST:** RADIATION INTERFERENCE

**RULES PART NUMBER:** 15.239, 15.209

**REQUIREMENTS:**

FIELD STRENGTH of Fundamental: S15.209

88-108 MHZ 30 -88 MHz 40 dBuV/m @3M  
88 - 216 MHz 43.5  
216 - 960 MHz 46  
47.96 dBuV/m @3m ABOVE 960 MHz 54dBuV/m

EMISSIONS RADIATED OUTSIDE OF THE SPECIFIED FREQUENCY BANDS, EXCEPT FOR HARMONICS, SHALL BE ATTENUATED BY AT LEAST 50 dB BELOW THE LEVEL OF THE FUNDAMENTAL OR TO THE GENERAL RADIATED EMISSION LIMITS IN 15.209, WHICHEVER IS THE LESSER ATTENUATION.

Fundamental Radiation Interference Data:

Frequency (MHz)	Antenna Polarization	Emission Level (dBuV/m)	FCC 15 Subpart C Limit (dBuV/m)
Low frequency			
88.100	Horizontal	41.50	47.96
88.100	Vertical	40.00	47.96
Middle frequency			
98.100	Horizontal	39.75	47.96
98.100	Vertical	41.21	47.96
High frequency			
107.900	Horizontal	40.11	47.96
107.900	Vertical	41.35	47.96





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**FCC ID:** UZY489702116

**NAME OF TEST:** RADIATION INTERFERENCE

**RULES PART NUMBER:** 15.239, 15.209

**REQUIREMENTS:**

FIELD STRENGTH of S15.209  
Fundamental:

88-108 MHZ 30 -88 MHz 40 dBuV/m @3M  
88 - 216 MHz 43.5  
216 - 960 MHz 46  
47.96 dBuV/m @3m ABOVE 960 MHz 54 dBuV/m

EMISSIONS RADIATED OUTSIDE OF THE SPECIFIED FREQUENCY BANDS, EXCEPT FOR HARMONICS, SHALL BE ATTENUATED BY AT LEAST 50 dB BELOW THE LEVEL OF THE FUNDAMENTAL OR TO THE GENERAL RADIATED EMISSION LIMITS IN 15.209, WHICHEVER IS THE LESSER ATTENUATION.

**Continued:**

General Radiation Interference Data:

Frequency (MHz)	Antenna Polarization	Emission Level (dBuV/m)	FCC 15 Subpart C Limit (dBuV/m)
46.140	Horizontal	32.16	40.0
52.350	Horizontal	31.15	40.0
176.250	Horizontal	32.60	43.5
196.200	Horizontal	32.20	43.5
46.360	Vertical	31.35	40.0
52.050	Vertical	30.05	40.0
176.250	Vertical	31.85	43.5
196.200	Vertical	31.35	43.5

TEST PROCEDURE: ANSI Standard C63.4-2003 using a ANRITSU spectrum analyzer with a pre-selector and an appropriate antenna. The resolution bandwidth of spectrum analyzer was 100 kHz below 1 GHz and 1 MHz above 1 GHz. An appropriate sweep speed was used. When an emission was found, the table was rotated to produce the maximum signal strength. The antenna was placed in both the horizontal and vertical planes and the worse case emissions were reported. The spectrum was searched to at least the tenth (10) harmonic of the fundamental.

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**NAME OF TEST:** Occupied Bandwidth and Band Edge Compliance

**RULES PART NUMBER:** 15.239

**REQUIREMENTS:** Emissions from the intentional radiator shall be confined within a band 200 kHz wide centered on the operating frequency. The 200 kHz band shall lie wholly within the frequency range of 88-108 MHz.

Band edge emissions plots are included on the following pages

**METHOD OF MEASUREMENT:** A small sample of the transmitter output was fed into the spectrum analyzer and the attached plot was printed. The vertical scale is set to 10 dB per division.

**TEST RESULTS:** The unit DOES meet the FCC requirements.



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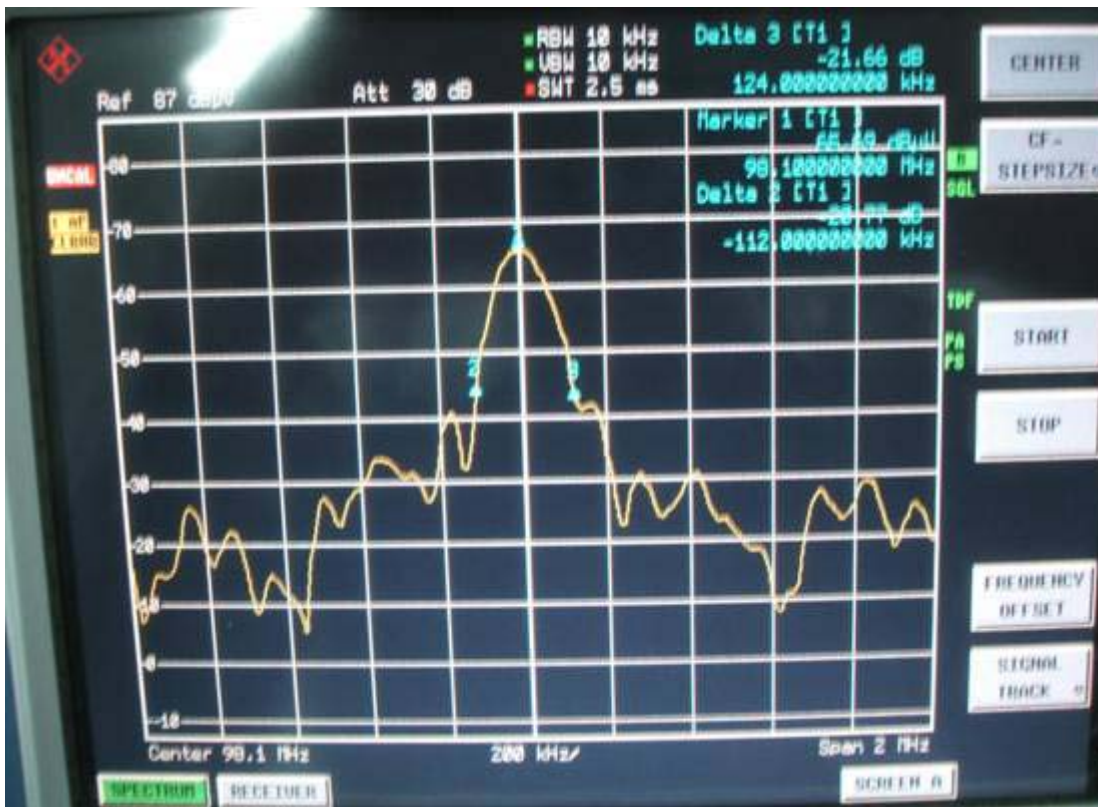




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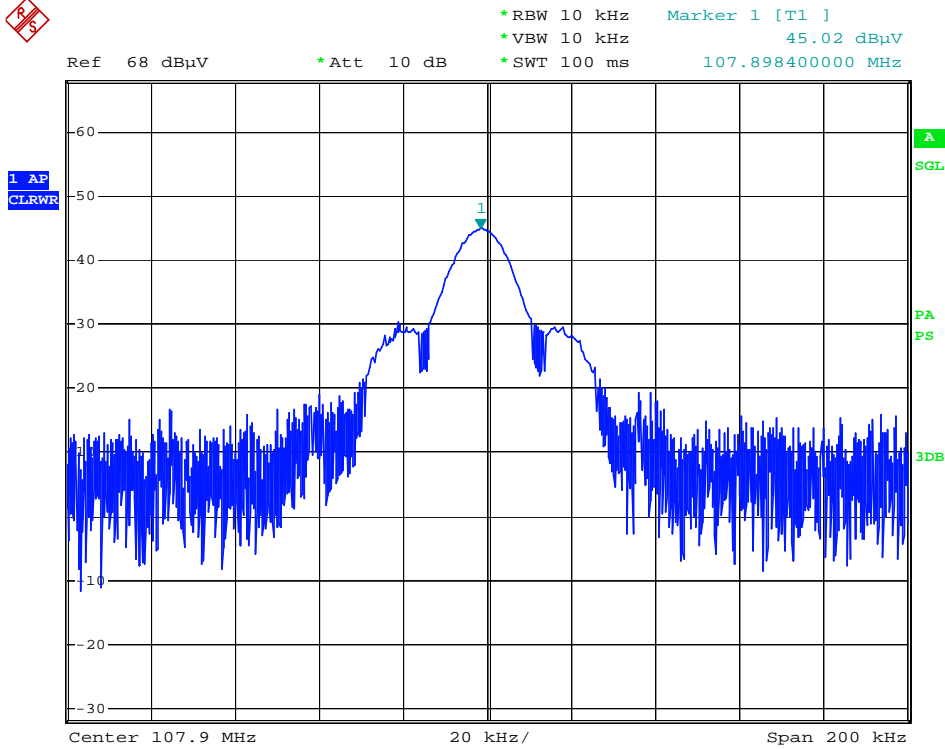


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