CMA Testing and Certification Laboratories
廠商會檢定中心

TEST REPORT

Report No. : AF025186-001 Date : 2005 October 31

Application No. : LF212366(9)

Applicant : Jetta Company Limited
Jetta House, 19, On Kui Street,
On Lok Tsuen, Fanling, N. T., Hong Kong.

Sample Description : One(1) submitted sample(s) stated to be Jear of Model No. 06628
Rating : For Jear: 1 x 3.6V Lithium ion rechargeable battery
For adaptor: 100 – 240V / DC 5.3V
Testing Voltage : AC 120V
No. of submitted sample : One (1) set(s)

Date Received : 2005 July 06

Test Period : 2005 July 06 – 2005 October 20

Test Requested : FCC Part 15 Certification.

Test Method : FCC Rules and Regulations Part 15 – July 2004
ANSI C63.4 – 2003

Test Result : See attached sheet(s) from page 2 to 13.

Conclusion : The submitted sample was found to comply with requirement of FCC Part 15 Subpart B.

For and on behalf of
CMA Testing and Certification Laboratories

Authorized Signature : _____
Danny Chui
EMC Engineer - EL. Division

FCC ID: TLB-J06628

Room 1302, Yan Hing Centre, 9-13 Wong Chuk Yeung St.., Fo Tan, Shatin, Hong Kong.
Tel: (852) 2698 8198 Fax: (852) 2695 4177 E-mail: info@cmatcl.com Web Site: http://www.cmatcl.com

TEST REPORT

Report No. : AF025186-001 Date : 2005 October 31

Table of Contents

Room 1302, Yan Hing Centre, 9-13 Wong Chuk Yeung St.., Fo Tan, Shatin, Hong Kong.
Tel: (852) 2698 8198 Fax: (852) 2695 4177 E-mail: info@cmatcl.com Web Site: http://www.cmatcl.com

TEST REPORT

Report No. : AF025186-001 Date : 2005 October 31

Test Result :

1 General Information

1.1 General Description

The equipment under test (EUT) is a standalone product and is powered by a 3.6V Li-ion rechargeable battery. The EUT is an audio amplifier for use with a mobile phone. It also amplifies sounds when used alone. It has preset EQ settings and is programmable via COM port connection to PC. The EUT operates on a clock frequency of 32.768 kHz while the main controller has an internal clock frequency of 49.152 MHz.

The brief circuit description is saved with file name: OpDes.pdf

1.2 Related Submittal Grants

This is a single application for certification of a computer peripheral product.

Room 1302, Yan Hing Centre, 9-13 Wong Chuk Yeung St.., Fo Tan, Shatin, Hong Kong.
Tel: (852) 2698 8198 Fax: (852) 2695 4177 E-mail: info@cmatcl.com Web Site: http://www.cmatcl.com

TEST REPORT

Report No. : AF025186-001 Date : 2005 October 31

Test Result :

1.2 Location of the test site

Radiated emissions measurements are investigated and taken pursuant to the procedures of ANSI C63.4 – 2003. A Semi-Anechoic Chamber Testing Site is set up for investigation and located at :

Ground Floor, Yan Hing Centre,
9 – 13 Wong Chuk Yeung Street,
Fo Tan, Shatin,
New Territories,
Hong Kong.

Conducted emissions measurements are investigated and also taken pursuant to the procedures of ANSI C63.4 – 2003. A shielded room is located at :

Ground Floor, Yan Hing Centre,
9 – 13 Wong Chuk Yeung Street,
Fo Tan, Shatin,
New Territories,
Hong Kong.

Room 1302, Yan Hing Centre, 9-13 Wong Chuk Yeung St.., Fo Tan, Shatin, Hong Kong.
Tel: (852) 2698 8198 Fax: (852) 2695 4177 E-mail: info@cmatcl.com Web Site: http://www.cmatcl.com

TEST REPORT

Report No. : AF025186-001 Date : 2005 October 31

Test Result :

1.3 List of measuring equipment

Equipment	Manufacturer	Model No.	Serial No.	Calibration Certification No.
EMI Test Receiver	R&S	ESCS30	100001	S43284
Broadband Antenna	Schaffner	CBL6112B	2692	CA3025
Signal Generator	IFR	2023B	202302/938	S43098
LISN	R&S	ESH3-Z5	100038	S43377
LISN	R&S	ESH3-Z5	100010	S43101
Pulse Limiter	R&S	ESH3-Z2	100001	S43325
Biconical Antenna	R&S	HK116	837414/004	2GB05000535-0001
Loop Antenna	EMCO	6502	00056620	49906

Support equipment: Sony Ericsson mobile phone T100 S/N: 350465-80-629545-8

Room 1302, Yan Hing Centre, 9-13 Wong Chuk Yeung St.., Fo Tan, Shatin, Hong Kong.
Tel: (852) 2698 8198 Fax: (852) 2695 4177 E-mail: info@cmatcl.com Web Site: http://www.cmatcl.com

TEST REPORT

Report No. : AF025186-001 Date : 2005 October 31

Test Result :

2 Description of the radiated emission test

2.1 Test Procedure

Radiated emissions measurements are investigated and taken pursuant to the procedures of ANSI C63.4 – 2003

The equipment under test (EUT) was placed on a non-conductive turntable with dimensions of 1.5m x 1m and 0.8m high above the ground. 3m from the EUT, a broadband antenna mounting on the mast received the signal strength. The turntable was rotated to maximize the emission level. The antenna was then moving along the mast from 1m up to 4m until no more higher value was found. Both horizontal and vertical polarization of the antenna were placed and investigated.

2.2 Test Result

All other measurements are well below the limit. Thus, those highest emissions were presented in next page.

The emissions meeting the requirement of section 15.109 are based on measurements employing the CISPR quasi-peak detector.

It was found that the EUT meet the FCC requirement.

Room 1302, Yan Hing Centre, 9-13 Wong Chuk Yeung St.., Fo Tan, Shatin, Hong Kong.
Tel: (852) 2698 8198 Fax: (852) 2695 4177 E-mail: info@cmatcl.com Web Site: http://www.cmatcl.com

TEST REPORT

Report No. : AF025186-001 Date : 2005 October 31

Test Result :

2.3 Radiated Emission Measurement Data

Radiated emission

pursuant to

the requirement of FCC Part 15 subpart B

Mode: Connected w/ AC-DC adaptor

Frequency (MHz)	Polarity (H/V)	Reading at 3m (dBμV/m)	Antenna and Cable factor (dB)	Field Strength (dBμV/m)	Limit at 3m (dBμV/m)	Margin (dB)
49.156	V	17.4	10.3	27.7	40.0	-12.3
72.193	V	10.6	5.9	16.5	40.0	-23.5
98.312	V	21.6	9.2	30.8	43.5	-12.7
196.650	H	19.8	9.2	29.0	43.5	-14.5
245.786	H	16.8	9.7	26.5	46.0	-19.5
294.910	H	18.8	13.9	32.7	46.0	-13.3
393.210	H	15.2	14.9	30.1	46.0	-15.9
491.545	H	8.7	17.7	26.4	46.0	-19.6
515.390	V	1.3	19.2	20.5	46.0	-25.5
544.020	H	3.3	19.2	22.5	46.0	-23.5

Room 1302, Yan Hing Centre, 9-13 Wong Chuk Yeung St.., Fo Tan, Shatin, Hong Kong.
Tel: (852) 2698 8198 Fax: (852) 2695 4177 E-mail: info@cmatcl.com Web Site: http://www.cmatcl.com

TEST REPORT

Report No. : AF025186-001 Date : 2005 October 31

Test Result :

2.3 Radiated Emission Measurement Data

Radiated emission

pursuant to

the requirement of FCC Part 15 subpart B

Mode: Connected w/ mobile phone

Frequency (MHz)	Polarity (H/V)	Reading at 3m (dBμV/m)	Antenna and Cable factor (dB)	Field Strength (dBμV/m)	Limit at 3m (dBμV/m)	Margin (dB)
49.147	H	15.7	10.3	26.0	40.0	-14.0
98.315	H	29.2	9.2	38.4	43.5	-5.1
147.456	H	8.2	11.9	20.1	43.5	-23.4
196.600	H	21.2	9.2	30.4	43.5	-13.1
245.758	H	11.8	9.7	21.5	46.0	-24.5
294.934	H	19.1	13.9	33.0	46.0	-13.0
344.065	H	7.2	14.9	22.1	46.0	-23.9
393.222	H	14.5	14.9	29.4	46.0	-26.6
442.396	H	6.9	17.7	24.6	46.0	-21.4
491.527	H	7.7	17.7	25.4	46.0	-20.6

Room 1302, Yan Hing Centre, 9-13 Wong Chuk Yeung St.., Fo Tan, Shatin, Hong Kong.
Tel: (852) 2698 8198 Fax: (852) 2695 4177 E-mail: info@cmatcl.com Web Site: http://www.cmatcl.com

TEST REPORT

Report No. : AF025186-001 Date : 2005 October 31

Test Result :

2.3 Radiated Emission Measurement Data

Radiated emission

pursuant to

the requirement of FCC Part 15 subpart B

Mode: Connected w/ PC

Frequency (MHz)	Polarity (H/V)	Reading at 3m (dBμV/m)	Antenna and Cable factor (dB)	Field Strength (dBμV/m)	Limit at 3m (dBμV/m)	Margin (dB)
37.501	V	7.3	15.6	22.9	40.0	-17.1
89.245	V	13.3	7.2	20.5	43.5	-23.0
166.421	V	11.1	10.4	21.5	43.5	-22.0
233.815	H	15.7	9.7	25.4	46.0	-20.6
300.185	H	15.5	14.9	30.4	46.0	-15.6
357.941	H	13.6	14.9	28.5	46.0	-17.5
386.564	H	17.0	14.9	31.9	46.0	-14.1
415.242	H	12.1	17.7	29.8	46.0	-16.2
720.114	V	9.9	21.6	31.5	46.0	-14.5
768.120	H	11.8	21.6	33.4	46.0	-12.6

Room 1302, Yan Hing Centre, 9-13 Wong Chuk Yeung St.., Fo Tan, Shatin, Hong Kong.
Tel: (852) 2698 8198 Fax: (852) 2695 4177 E-mail: info@cmatcl.com Web Site: http://www.cmatcl.com

TEST REPORT

Report No. : AF025186-001 Date : 2005 October 31

Test Result :

3 Description of the Line-conducted Test

3.1 Test Procedure

Conducted emissions measurements are investigated and also taken pursuant to the procedures of ANSI C63.4 – 2003. The EUT was setup as described in the procedures, and both lines were measured.

3.2 Test Result

The PC connected mode and stand-alone mode have been tested. The EUT connecting with an USB cable and earphone produced the maximum emission. The measurement data was indicated in Appendix.

The result showed that the EUT met the FCC requirement.

3.3 Graph and Table of Conducted Emission Measurement Data

For electronic filing, the document are saved with filename TestRpt2.pdf

Room 1302, Yan Hing Centre, 9-13 Wong Chuk Yeung St.., Fo Tan, Shatin, Hong Kong.
Tel: (852) 2698 8198 Fax: (852) 2695 4177 E-mail: info@cmatcl.com Web Site: http://www.cmatcl.com

TEST REPORT

Report No. : AF025186-001 Date : 2005 October 31

Test Result :

4 Photograph

4.1 Photographs of the Test Setup for Radiated Emission and Conduction Emission

For electronic filing, the photos are saved with filename TSup1.jpg to TSup5.jpg

4.2 Photographs of the External and Internal Configurations of the EUT

For electronic filing, the photos are saved with filename ExPho1.jpg to ExPho2.jpg and InPho1.jpg to InPho2.jpg.

Room 1302, Yan Hing Centre, 9-13 Wong Chuk Yeung St.., Fo Tan, Shatin, Hong Kong.
Tel: (852) 2698 8198 Fax: (852) 2695 4177 E-mail: info@cmatcl.com Web Site: http://www.cmatcl.com

TEST REPORT

Report No. : AF025186-001 Date : 2005 October 31

Test Result :

5 Supplementary document

The following document were submitted by applicant, and for electronic filing, the document are saved with the following filenames:

Document	Filename
ID Label/Location	LabelSmp.jpg
Block Diagram	BlkDia.pdf
Schematic Diagram	Schem.pdf
Users Manual	UserMan.pdf
Operational Description	OpDes.pdf

Room 1302, Yan Hing Centre, 9-13 Wong Chuk Yeung St.., Fo Tan, Shatin, Hong Kong.
Tel: (852) 2698 8198 Fax: (852) 2695 4177 E-mail: info@cmatcl.com Web Site: http://www.cmatcl.com

TEST REPORT

Report No. : AF025186-001 Date : 2005 October 31

6 Appendices

A1.	Photos of the set-up of Radiated Emissions	1	page
A2.	Photos of the set-up of Conducted Emissions	2	pages
A3.	Photos of External Configurations	1	page
A4.	Photos of Internal Configurations	1	page
A5.	ID Label/Location	1	page
A6.	Conducted Emission Test Result	4	pages
A7.	Block Diagram	1	page
A8.	Schematics	1	page
A9.	User Manual	14	pages
A10.	Operation Description	1	page

***** End of Report *****

Room 1302, Yan Hing Centre, 9-13 Wong Chuk Yeung St.., Fo Tan, Shatin, Hong Kong.
Tel: (852) 2698 8198 Fax: (852) 2695 4177 E-mail: info@cmatcl.com Web Site: http://www.cmatcl.com