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Auftraggeber: Classic Tech Development Ltd.

Client:

11-12/F., YUE XIU IND'L BLDG.
87 HUNG TO ROAD,
KWUN TONG, KOWLOON
HONG KONG

Gegenstand der Prüfung: Receiver of Wireless Headphone System

Test item:

Bezeichnung:

HP492

FCC ID:

REDHP492-001R

Identification:

HP892

FCC ID

Wareneingangs-Nr.:

73008804

Eingangsdatum:

25.07.2003

Receipt No.:

Date of receipt:

Prüfort:

Testing location:

Shenzhen Bureau of Quality Technical
Supervision Shenzhen Academy of Metrology
and Quality Inspection
Bldg. of Shenzhen Academy of Metrology and
Quality Inspection, Longzhu Road, Nanshan,
Shenzhen,
P.R. China

Listed test laboratory
according to FCC rules
section 2.948 for
measuring devices under
Parts 15

Prüfgrundlage:

Test specification:

ANSI C63.4:1992

Conduct Emissions with limits described at FCC Part 15 subpart B section 15.107

Radiated Emissions with limits described at FCC Part 15 Subpart B section 15.109

38 dB rejection described at FCC Part 15 Subpart B section 15.121

Prüfergebnis:

Test Result:

Der vorstehend beschriebene Prüfgegenstand wurde geprüft und entspricht oben genannter Prüfgrundlage.

The a. m. test item passed.

Prüflaboratorium/ Testing Laboratory:

zusammengestellt/ compiled by:

kontrolliert/ checked by:

18.08.2003

Dave Xie



20.08.2003

Yuxin Huang



*Datum
Date*

*Name
Name*

*Unterschrift
Signature*

*Datum
Date*

*Name
Name*

*Unterschrift
Signature*

Sonstiges/ Other Aspects:

Abkürzungen: ok / P = entspricht Prüfgrundlage
fail / F = entspricht nicht Prüfgrundlage
n.a. / N = nicht anwendbar

Abbreviations: ok / P = passed
fail / F = failed
n.a. / N = not applicable

Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.

This test report relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.

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TEST SUMMARY

5.1 CONDUCTED EMISSION FOR FCC PART 15 PER SECTION 15.107(A)

RESULT: *n.a.*

5.2 RADIATED EMISSION FOR FCC PART 15 PER SECTION 15.109(A)

RESULT: *ok*

5.3 38 dB REJECTION SIGNAL FROM CELLULAR FREQUENCY BAND

RESULT: *ok*

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1 General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix 1: Test result

2 Test Sites

2.1 Test Facilities

Shenzhen SMQ

Shenzhen Bureau of Quality Technical Supervision
Shenzhen Academy of Metrology and Quality Inspection
Bldg. of Shenzhen Academy of Metrology and Quality Inspection
Longzhu Road, Nanshan, Shenzhen,
P.R. China

The tests at these test sites have been conducted under the supervision of a TÜV engineer.

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2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Kind of Equipment	Manufacturer	Type	S/N	Calibrated until
Antenna	Schwarzbeck	VUBA9117	115	08.06.2004
Horn Antenna	Rohde & Schwarz	HF906	100013	01.02.2004
Horn Antenna	Rohde & Schwarz	HF906	100014	01.02.2004
3m Semi-anechoic chamber	Albatross Projects	9X6X6	----	01.02.2004
EMI Test Receiver	Rohde & Schwarz	ESI26	838786/013	01.02.2004
Communications Test Set	Rohde & Schwarz	CMU200	1100.0008.02	31.01.2004
Communications Test Set	HP	HP8920A	3438A05187	12.12.2003

2.3 Trace ability

All measurement equipment calibrations are traceable to NIST or where calibration is performed outside the United States, to equivalent nationally recognized standards organizations

2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

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2.5 Measurement Uncertainty

The estimated combined standard uncertainty for conducted emissions measurements is ± 3 dB.
The estimated combined standard uncertainty for radiated emissions measurements is ± 3 dB.

2.6 Location of original data

The original copies of all test data taken during actual testing were attached at Appendix 1 of this report and delivered to the applicant. A copy has been retained in the TÜV Rheinland (Guangzhou) file for certification follow-up purposes.

2.7 Status of facility used for testing

Shenzhen Bureau of Quality Technical Supervision, Shenzhen Academy of Metrology and Quality Inspection, Bldg, of Shenzhen Academy of Metrology and Quality Inspection, Longzhu Road, Nanshan, Shenzhen, P.R.China is listed on the US Federal Communications Commission list of facilities approved to perform measurements

3 General Product Information

Brief description of the test sample:

The model HP492 and HP892 are receivers for a wireless headphone system. They have auto scan function.

HP892 has the same electrical construction with HP492, only the appearance of plastic enclosure is changed. They bear the same FCC ID.

According to above mentioned, all the tests were performed on HP492.

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3.1 Product Function and Intended Use

For details, refer to user manual.

3.2 Ratings and System Details

Frequency range	:	913.03MHz, 912.53MHz, 912.03MHz
Number of channels	:	Auto tunable
Type of antenna	:	Integral antenna
FCC ID:		REDHP492-001R
Power supply	:	DC 2.4V ("AAA" type 1.2V NiCd battery 2x)
Ports	:	None
Protection Class	:	III

Refer to document for further information

3.3 Independent Operation Modes

The basic operation modes are:

Receiving with volume and freq. adjustable

For further information refer to User Manual

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3.4 Submitted Documents

Block Diagram
Circuit Diagram
Components List
PCB Layout
FCC Label
Rating Label
User Manual
Photo Document

4 Test Set-up and Operation Mode

4.1 Principle of Configuration Selection

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Refer to Test set-up in chapter 5.

4.3 Special Accessories and Auxiliary Equipment

None

4.4 Countermeasures to achieve EMC Compliance

The test sample, which has been tested, contained the noise suppression parts as described in the Constructional Data Form or the Technical document. No additional measures were employed to achieve compliance.

4.5 Test set-up

Diagram 1 of Measurement Equipment Configuration for Testing Conducted Emission

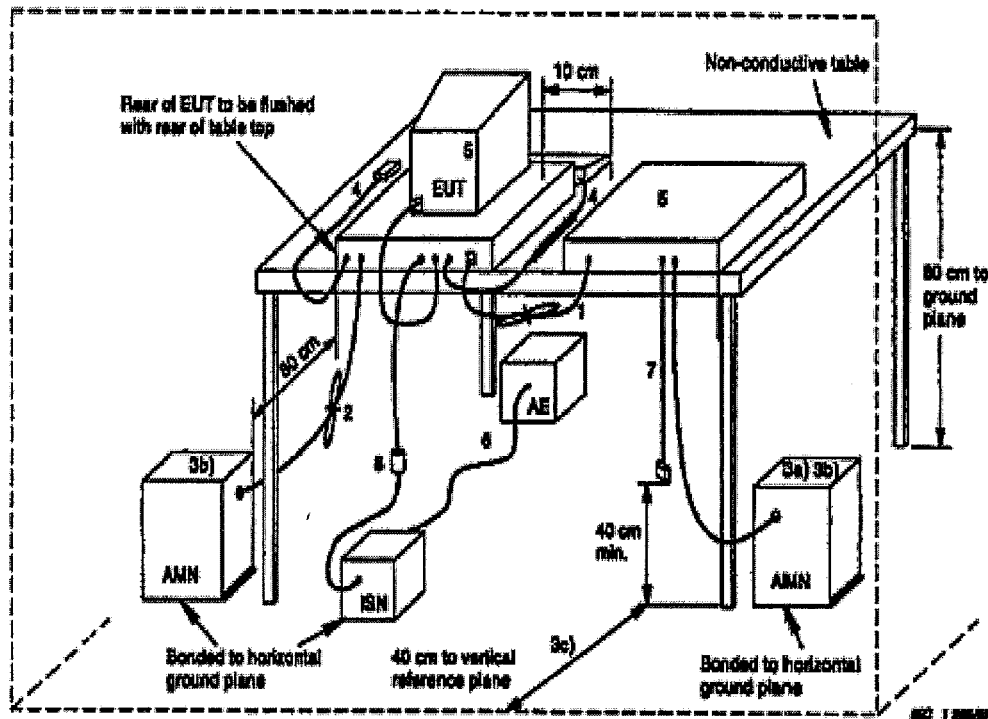
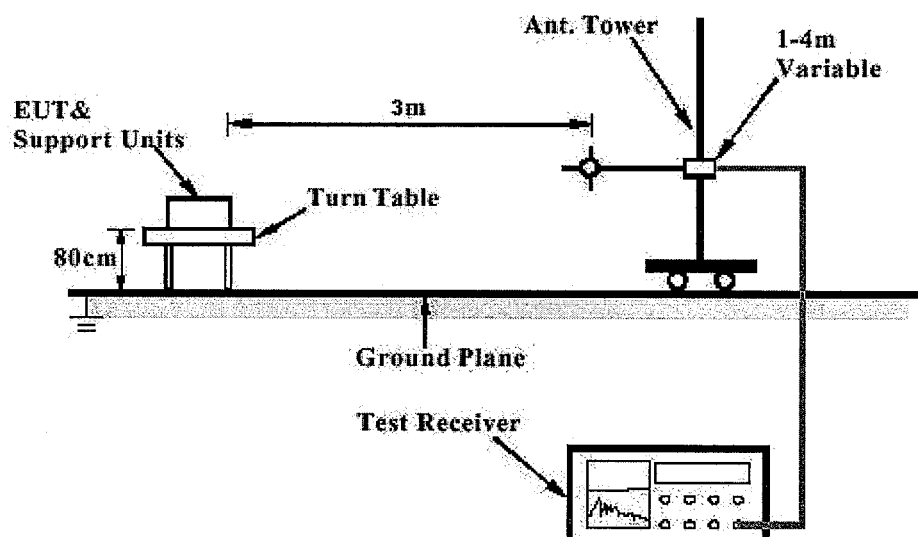


Diagram 2 of Measurement Equipment Configuration for Testing Radiated Emission



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5 Test Results EMISSION

5.1 Conducted Emission for FCC Part 15 Per Section 15.107(a)

RESULT:

n.a.

Date of testing	:	---
Test specification	:	FCC Part 15 Per Section 15.107(a)
Deviations from Standard Test procedures	:	None
Test procedure	:	n.a.
Kind of test site	:	Shielded room

There is no connection available for mains.

5.2 Radiated Emission for FCC Part 15 Per Section 15.109(a)

RESULT:

ok

Date of testing	:	04.08.2003
Test specification	:	FCC Part 15 Per Section 15.109(a)
Limit	:	FCC Part 15 Per Section 15.109(a)
Deviations from Standard Test procedures	:	None
Test procedure	:	Procedure specified in ANSI C63.4 were followed
Kind of test site	:	3m Semi-anechoic chamber

Refer to Appendix 1 for test result.

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5.3 38 dB rejection signal from Cellular Frequency band

RESULT:

ok

Date of testing : 04.08.2003
Test specification : FCC Part 15 Per Section 15.121(b)
Limit : FCC Part 15 Per Section 15.121(b)
Operation mode: receiving
Test procedure Procedure specified in ANSI C63.4 were followed
Kind of test site : Shielded room
Test signal : RF signal FM at 1kHz audio, 19kHz pilot with
75kHz deviation
Reference level : -63dBm

Table 2 : 38 dB Rejection

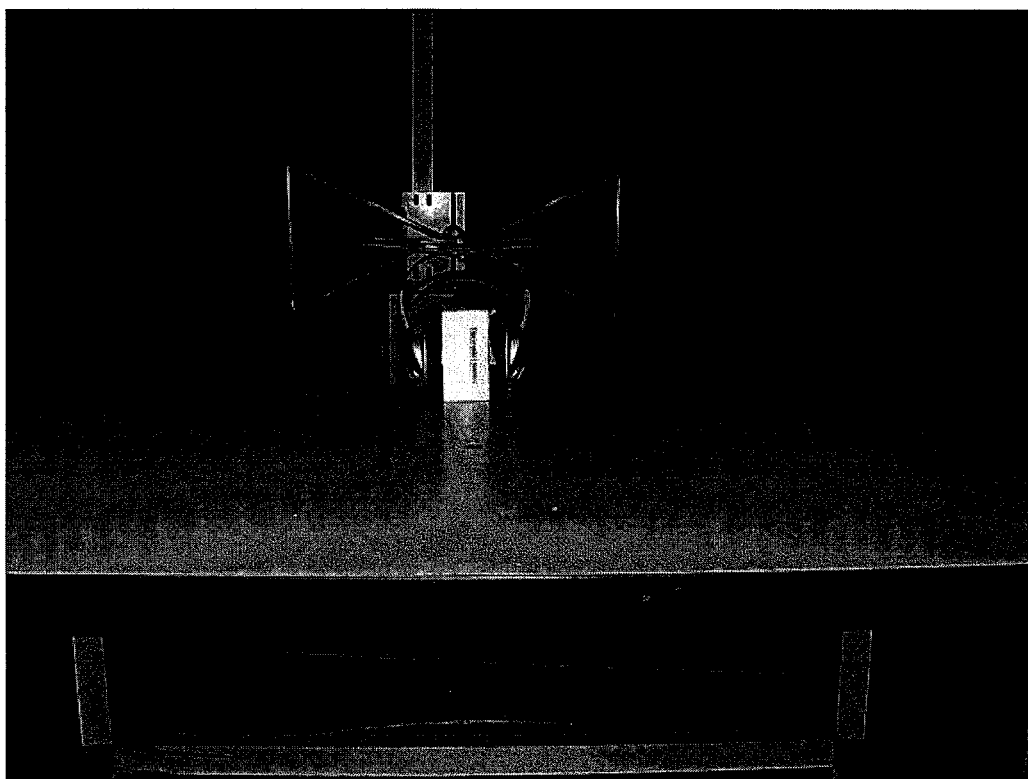
Injection frequency(Cellular) in MHz	Level 12dB SINAD at injected frequency in dBm	Rejection in dB	Limit in dB
824.04	>23	>40	38
836.00	>23	>40	38
848.97	>23	>40	38
869.04	>23	>40	38
881.00	>23	>40	38
893.97	>23	>40	38

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6 Photographs of the Test Set-Up

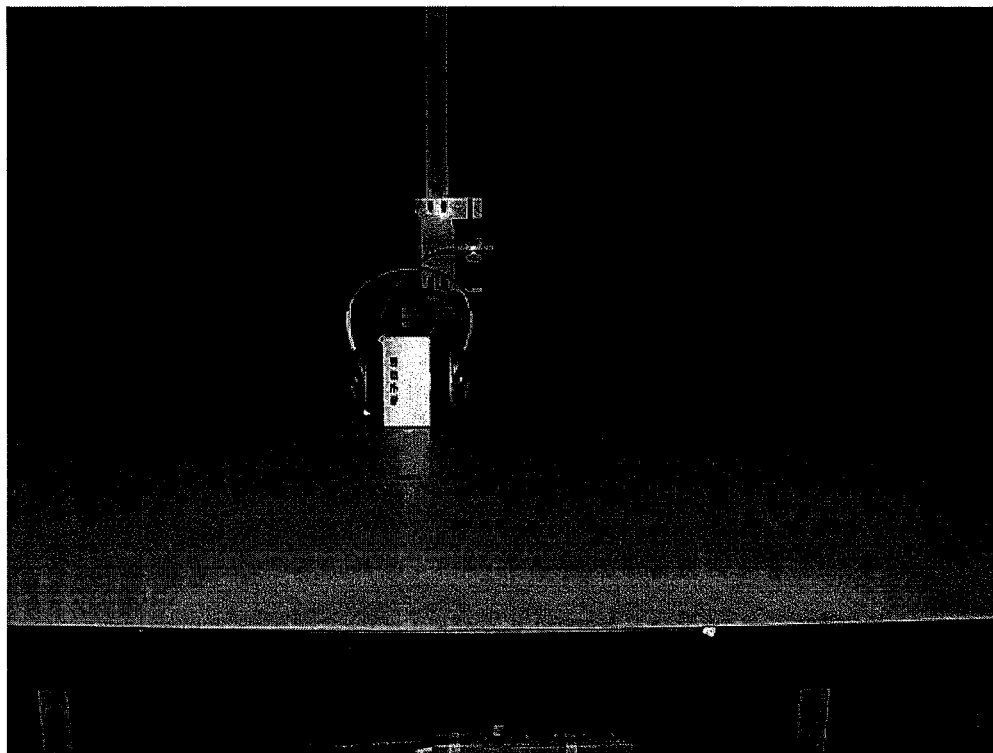
Photograph 1: Set-up for Radiation Measurement Below 1GHz



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Photograph 2: Set-up for Radiation Measurement Above 1GHz



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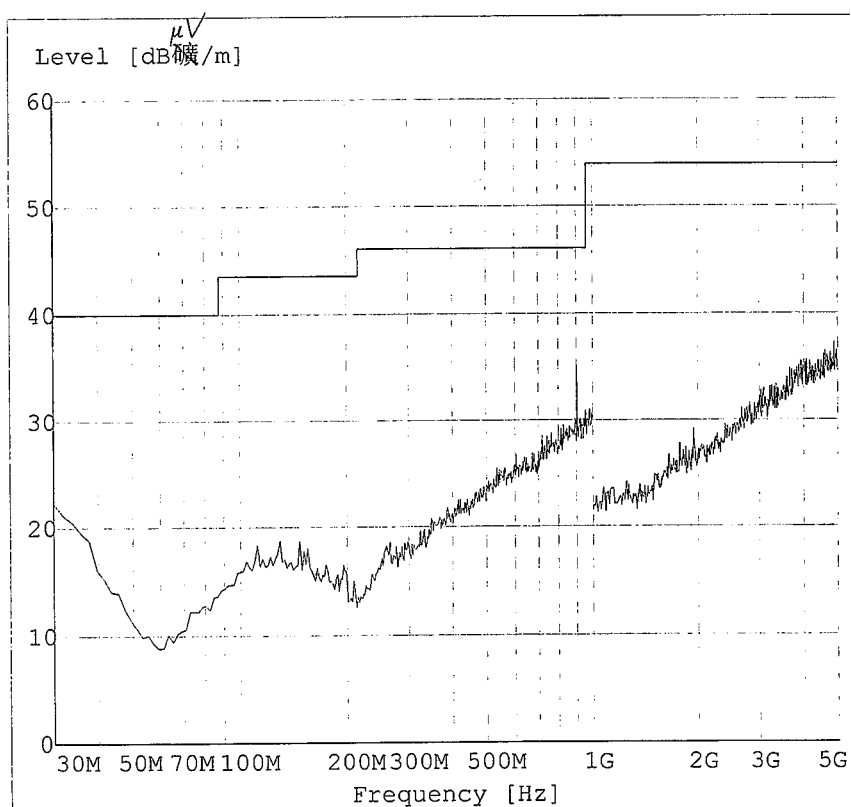
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Radiated Disturbance

FCC Class B

EUT: M/N:HP492
Manufacturer:
Operating Condition: ON
Test Site: SMQ EMC Lab.SAC
Operator:
Test Specification: Horizontal
Comment: AC 120V/60Hz



— MES HP492 RX Hor
— MES HP491 RX Hor
— LIM FCC ClassB F QP/AV FCC ClassB, field strength

Fre:	read value	Limit
901.809 MHz	36.1 dB μ V/m	46 dB μ V/m

8/18/03 10:11AM

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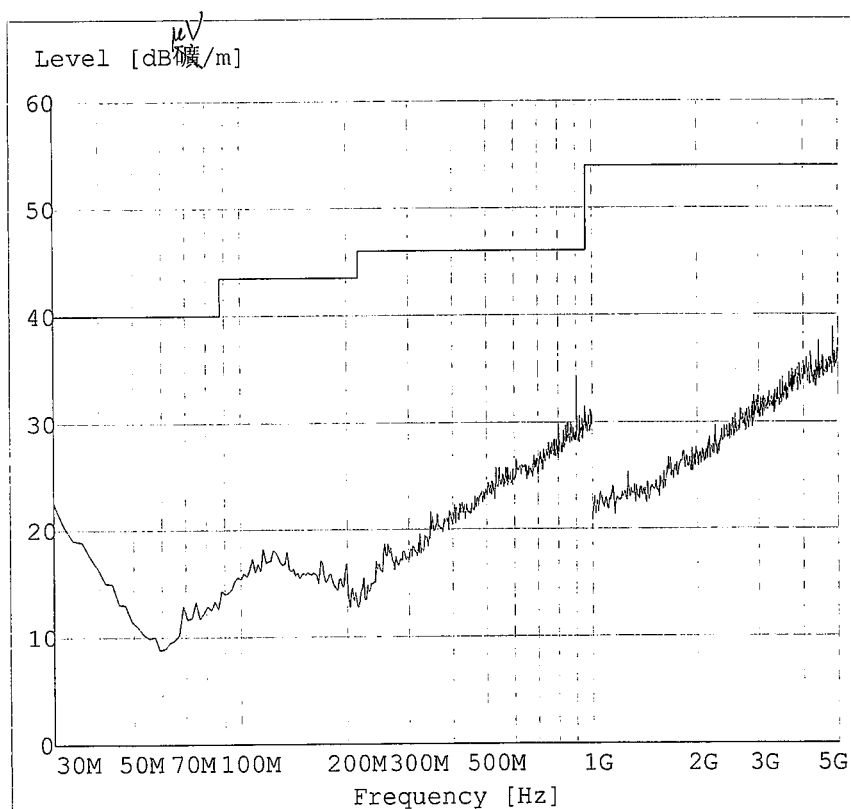
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Radiated Disturbance

FCC Class B

EUT: M/N:HP492
Manufacturer:
Operating Condition: ON
Test Site: SMQ EMC Lab.SAC
Operator:
Test Specification: Vertical
Comment: AC 120V/60Hz



— MES HP492 RX Ver
— MES HP491 RX Ver
— LIM FCC ClassB F QP/AV FCC ClassB, field strength

901.809 MHz : 36.0 dB μ V/m 46 dB μ V/m
Fre: reading Value Limit

8/18/03 10:11AM