

Prüfbericht - Nr.: 16001901 001

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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: HP892A **FCC ID:** REDHP892A-001R
Identification: FCC ID

Wareneingangs-Nr.: 73008834 **Eingangsdatum:** 19.08.2003
Receipt No.: *Date of receipt:*

Prüfort: Shenzhen Bureau of Quality Technical
Testing location: 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: ANSI C63.4:1992
Test specification: 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

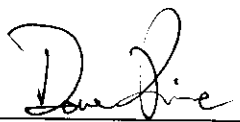
Prüfergebnis: Der vorstehend beschriebene Prüfgegenstand wurde geprüft und
Test Result: entspricht oben genannter Prüfgrundlage.
The a. m. test item passed.

Prüflaboratorium/ Testing Laboratory:
zusammengestellt/ compiled by:

kontrolliert/ checked by:

01.09.2003 Dave Xie

Datum Name
Date Name


Unterschrift
Signature

05.09.2003 Yuxin Huang

Datum Name
Date 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 38dB 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 HP892A is a 900MHz receiver for a wireless headphone system. The main function of the EUT is receiving of RF signal from associated transmitter, demodulate the signal and express in audio. The typical frequency range of the EUT is 912.03-913.03MHz, the receiving frequency can be selected by pressing the AUTO SCAN button on the EUT, the volume can be adjusted to obtain the desired sound level, there are two LEDs on EUT, the red one will light up when you place the On/Off switch in the On position, the green light up means the frequency was locked.

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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:		REDHP892A-001R
Power supply	:	DC 2.4V ("AAA" type 1.2V NiCd battery 2x)
Ports	:	None
Protection Class	:	III

Refer to technical 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

3.4 Submitted Documents

Block Diagram
Circuit Diagram
Components List
PCB layout
FCC label
Rating Label
User Manual
Photo document

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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 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

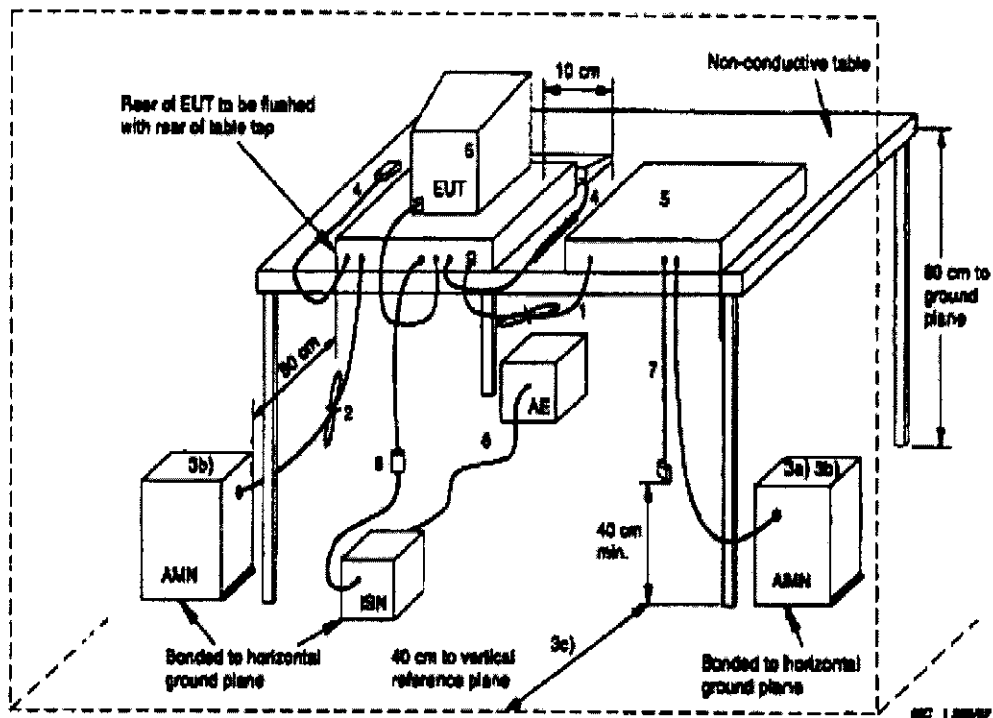
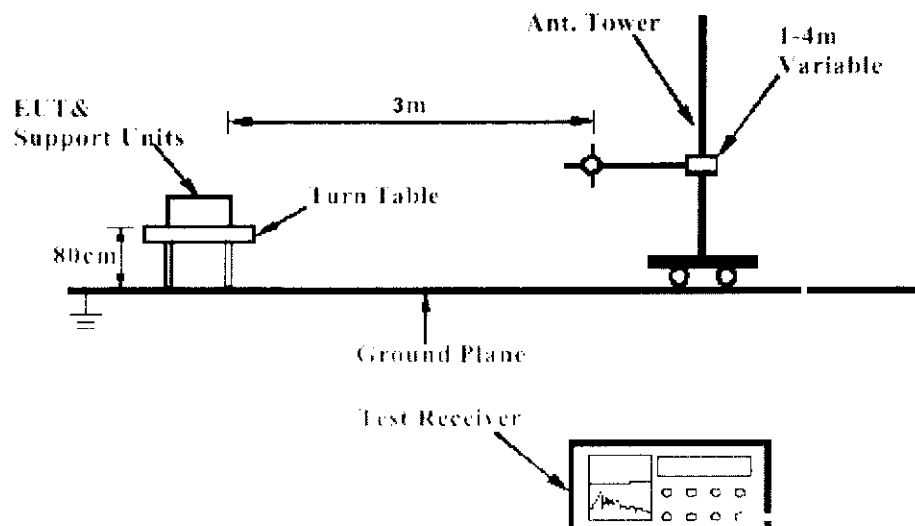


Diagram 2 of Measurement Equipment Configuration for Testing Radiated Emission



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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	:	19.08.2003
Test specification	:	FCC Part 15 Per Section 15.109(a)
Limits	:	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 : 19.08.2003
Test specification : FCC Part 15 Per Section 15.121
Limits : FCC Part 15 Per Section 15.121
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

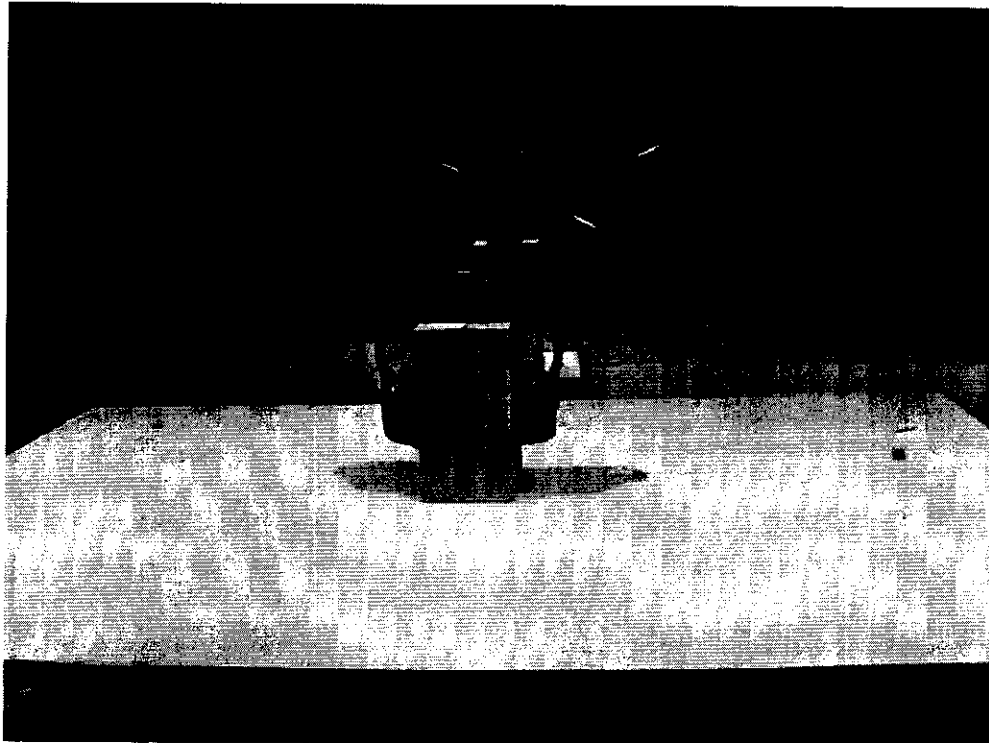
Injection frequency(Cellular) in MHz	Level 12dB SINAD at injected frequency in dBm	Rejection in dB	Limit in dB
824.04	>23	>40	38
836.00	>23	>40	38
848.97	>23	>40	38
869.04	>23	>40	38
881.00	>23	>40	38
893.97	>23	>40	38

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6 Photographs of the Test Set-Up

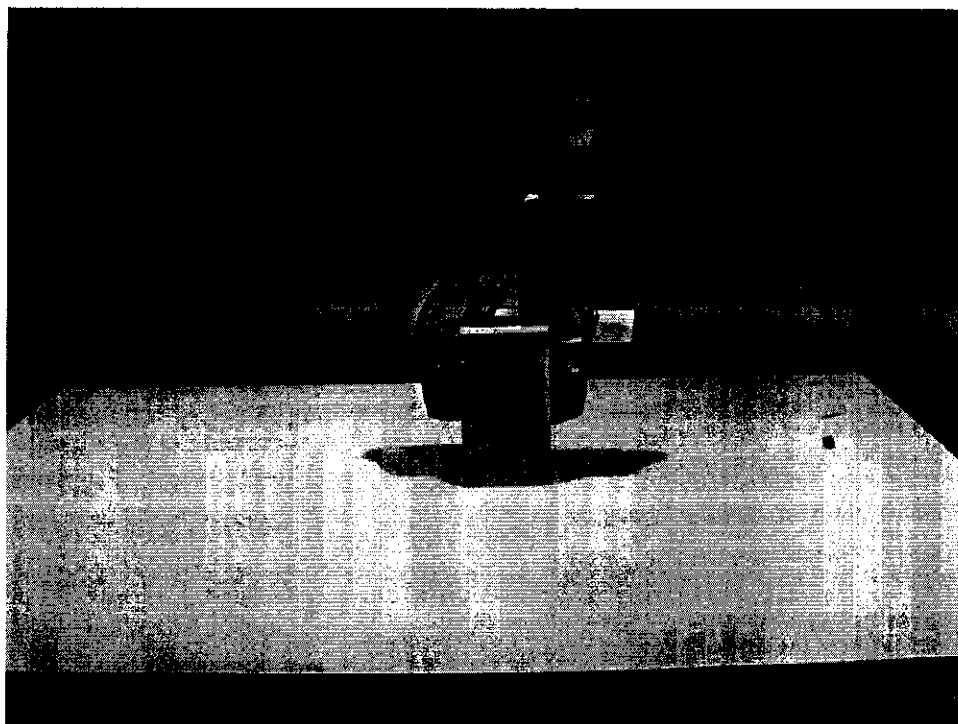
Photograph 1: Set-up for Radiation Measurement Below 1GHz



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



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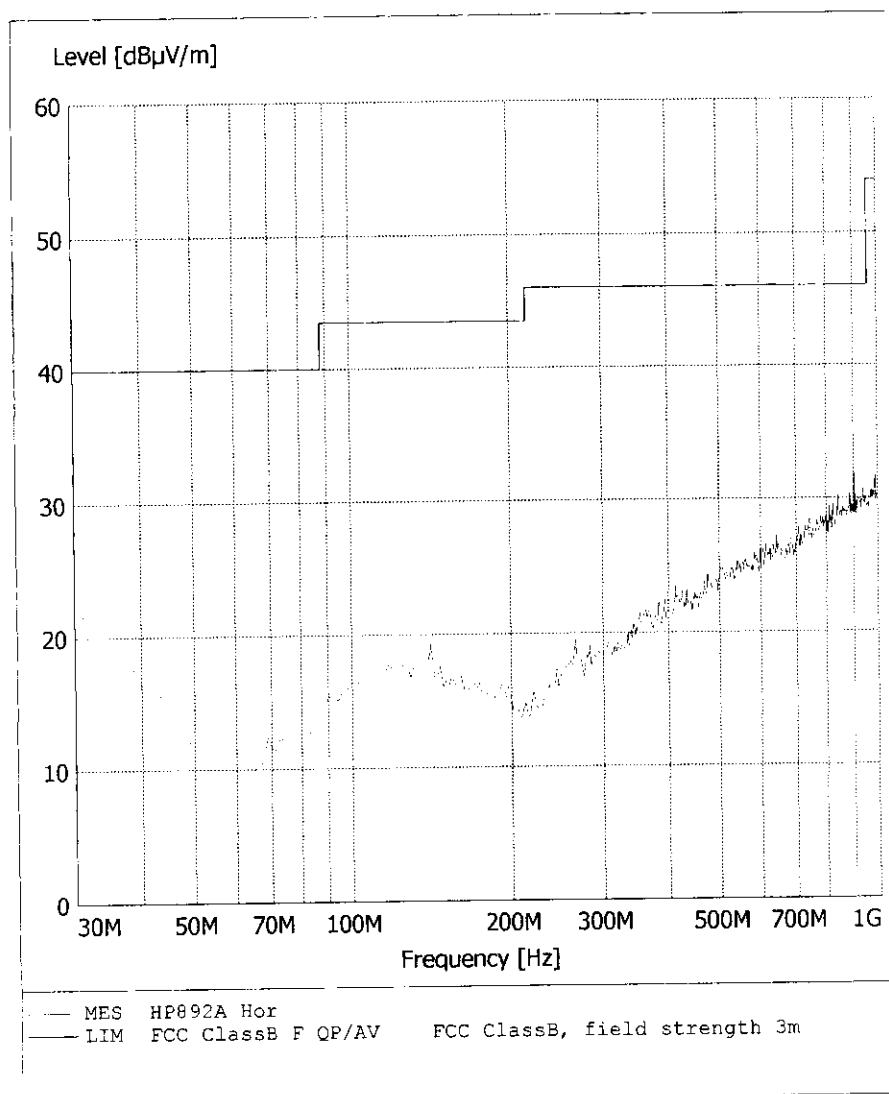
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Radiated Disturbance

FCC Class B

EUT: M/N:HP892A
Manufacturer:
Operating Condition: RX
Test Site: SMQ EMC Lab.SAC
Operator:
Test Specification: Horizontal
Comment: AC 120V/60Hz



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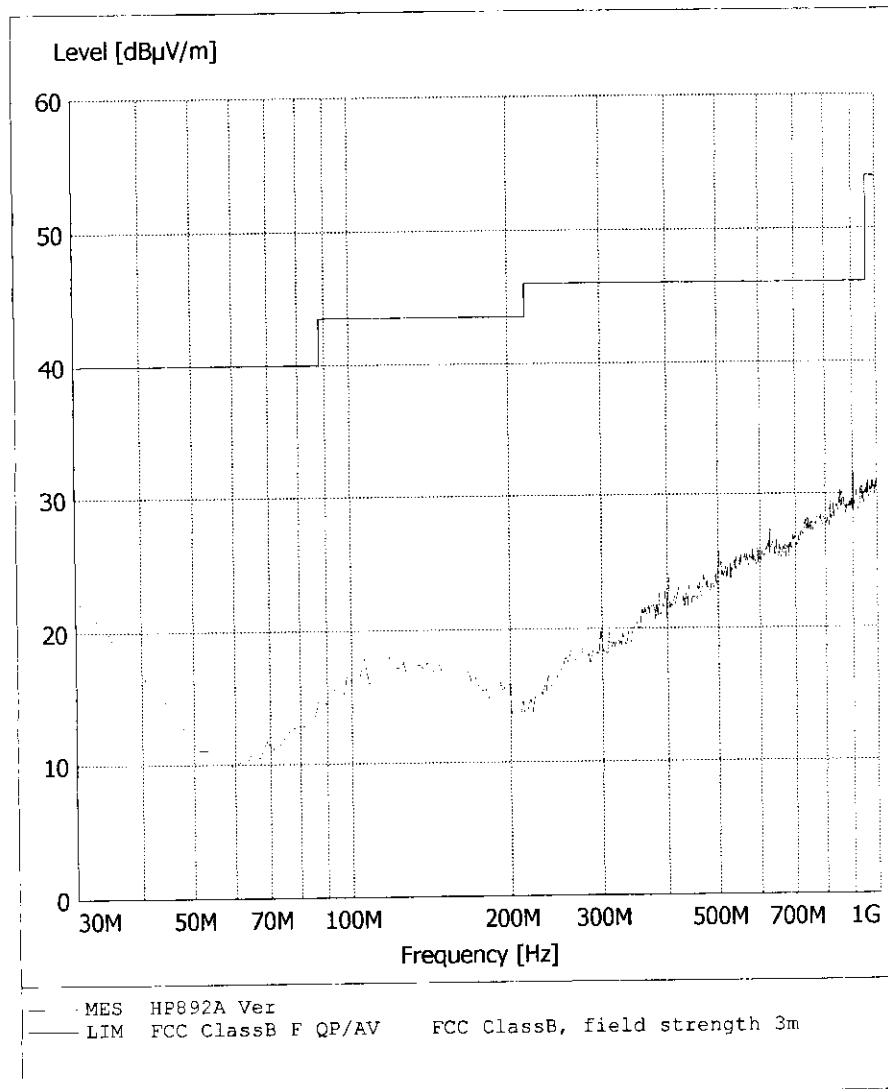
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Radiated Disturbance

FCC Class B

EUT: M/N:HP892A
Manufacturer:
Operating Condition: RX
Test Site: SMQ EMC Lab.SAC
Operator:
Test Specification: Vertical
Comment: AC 120V/60Hz



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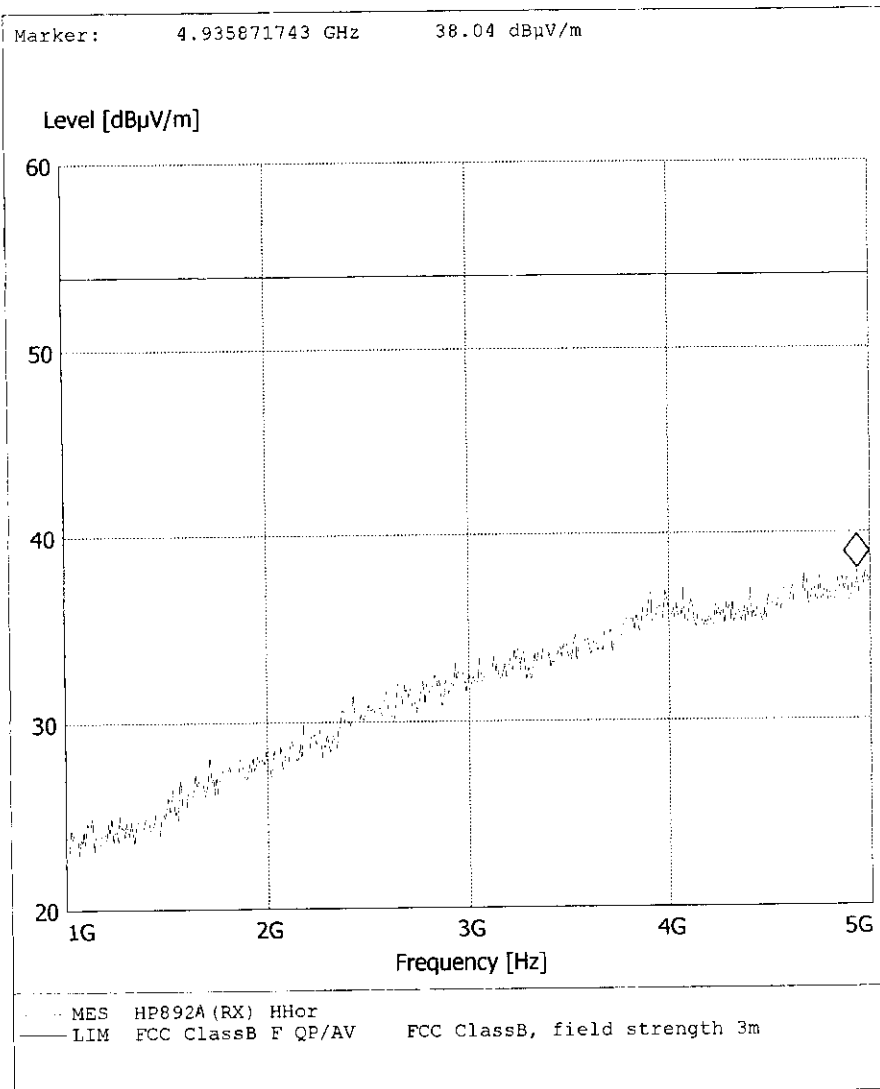
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Radiated Disturbance

FCC Class B

EUT: M/N:HP892A
Manufacturer:
Operating Condition: RX
Test Site: SMQ EMC Lab.SAC
Operator:
Test Specification: Horizontal
Comment: AC 120V/60Hz



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Radiated Disturbance

FCC Class B

EUT: M/N:HP892A
Manufacturer:
Operating Condition: RX
Test Site: SMQ EMC Lab.SAC
Operator:
Test Specification: Vertical
Comment: AC 120V/60Hz

