FCC-TEST REPORT

REPORT NO.: 31017A/2/400F

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FCC listed testlab acc. to Section 2.948 of the FCC - Rules

in compliance with the requirements of ANSI C63.4 - 1992

Product: FM Modulator

Product Class: Low Power Communication Device

Transmitter

Model : EH-1205L

Applicant : SOUNDING AUDIO INDUSTRIAL

LIMITED

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LABORATORY - REPORT

APPLICANT: SOUNDING AUDIO INDUSTRIAL LIMITED **ADDRESS:** Unit N, 9/F, Stage 2, Wah Fung Industrial Centre,

33-39 Kwai Fung Road, Kwai Chung

NT, HONG KONG

DATE OF SAMPLE RECEIVED: 2002-07-08

DATE OF TESTING: 2002-08-13 and 2002-10-21

DESCRIPTION OF SAMPLE:

Product: FM Modulator

Product class: Low Power Communication Device Transmitter

Model number: EH-1205L Brand name: HONDA

Rating: DC 12V car battery

Country of Origin: P.R. CHINA

INVESTIGATIONS REQUESTED:

Measurements to the relevant clauses of F.C.C. Rules and Regulations

Part 15 Subpart C - Intentional Radiators

RESULTS: See the attached test sheets

CONCLUSIONS From the measurement data obtained, the tested sample was considered

to have COMPLIED with the requirements for the relevant clauses of Federal Communications Commission Rules as specified above.

Authorized Signature

Remark: Purpose of those tests in this report is to provide the applicant with the necessary test data of their device for the submission to FCC with application for Equipment Authorization under the FCC Equipment Authorization Program. The tests themselves are not Approval Tests

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Summary of Test Results

Interference Radiation:

Test result: O.K

Test data: See attached data sheet

Interference Voltage:

Test result: N.A. Test data: N.A.

PHOTOGRAPH OF THE SAMPLE



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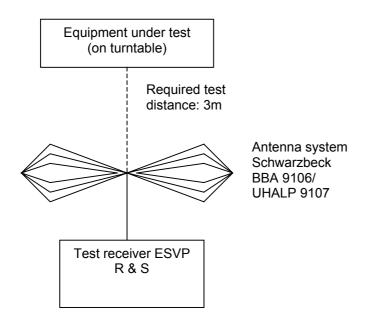
TEST EQUIPMENT LIST

Equipment	Manufacturer	Model	Serial No.	Remark
Test Receiver	Rohde & Schwarz	ESH 3	863497/015	10KHz – 30MHz
Test Receiver	Rohde & Schwarz	ESVP	860688/022	25MHz – 1,300 MHz
Artificial Mains Network (LISN)	Schwarzbeck	NSLK 8127		2 x 10A, 50Ω, 50μH 10KHz-30MHz
Antenna System	Schwarzbeck	BBA 9106 / UHALP 9107		30MHz – 1000MHz
Antenna Mast System	Schwarzbeck	AM9104		Max. 4 meters height
Spectrum Analyzer with Q. Peak	Tektronix	2712	B023006	9KHz – 1.8GHz
Interface for Spectrum 2712	Tektronix	TD3F14A		
Loop Antenna	Rohde & Schwarz	HFH2-Z2	871336/48	9KHz-30MHz
Test Receiver	Rohde & Schwarz	ESH 3	892580/006	10KHz – 30MHz
Test Receiver	Rohde & Schwarz	ESVP	863512/012	25MHz – 1,300 MHz
Impulse Limiter	Rohde & Schwarz	ESH-3-Z2		
Antenna System	Schwarzbeck	BBA 9106 / UHALP 9107		30MHz – 1000MHz
Signal Generator	Rohde & Schwarz	SWS 2	879113/42	100KHz – 1040 MHz
Digital Multimeter	Tektronix	DM2510G	DM- 2510GTW10555	10KHz – 30MHz
Turntable with Controller	Drehtisch	DT312		ф120 cm

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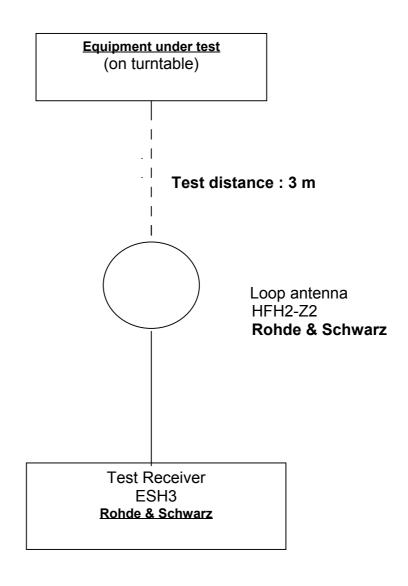
Radiated Emission Test Procedure (> 30MHz)



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Radiated Emission Test Procedure (9kHz - 30MHz)



Interference Radiation

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Measurement of Radiated Emissions Acc: FCC Part 15 Subpart C

IECC Ref: 31017A/2/400F

Model: EH-1205L
Applicant: SOUNDING AUDIO INDUSTRIAL LIMITED

Ser.Nr.: 1

Set under test: FM Modulator
Connected sets: -

Operating mode: Operate

Test Equipment

Receiver: ESVP Rohde & Schwarz Antenna: Schwarzbeck BBA 9106 and UHALP 9107

Radiation Measurement (Fundamental Frequency = 88.5 MHz)

1. Fundamental Frequency

 $\begin{tabular}{lll} \hline Frequency (MHz) & Maximum Test Result (dB(<math>\mu$ V/m)) & FCC Limit (dB(μ V/m)) & Peak Average & Peak Average & Ave

2. Other Frequencies

Frequency (MHz)	Horz. Reading dB(μV)		eading Reading Factor		Horiz. Test Result dB(µV/m)		Vert. Test Result dB(µV/m)	Limit dΒ(μV/m)	
30.00	<	5	٧	5	18.4	٧	23.4	< 23.4	40.0
60.00	<	5	٧	5	8.4	٧	13.4	< 13.4	40.0
100.00	<	5	٧	5	10.3	٧	15.3	< 15.3	43.5
200.00	<	5	٧	5	16.5	٧	21.5	< 21.5	43.5
300.00	<	5	<	5	20.0	<	25.0	< 25.0	46.0
500.00	<	5	٧	5	19.7	٧	24.7	< 24.7	46.0
1000.00	<	5	<	5	26.5	<	31.5	< 31.5	54.0

Remark: NO SIGNIFICANT EMISSIONS FOUND. ALL EMISSIONS ARE IN THE NOISE

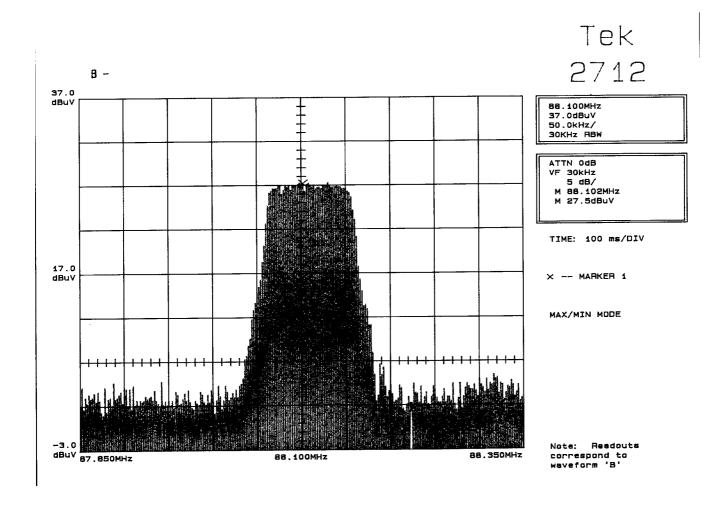
FLOOR OF THE RHODE & SCHWARZ ANALYZER.

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Occupied Bandwidth Plot (Operation at 88.1 MHz)



Result: The occupied bandwidth at the lowest frequency was found to lie within the frequency range of 88 – 108 MHz.

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Notes for Radiation Measurement

1. Measurement facility:

Measurement facility located at Fanling (Hong Kong), placed on file with the FCC Pursuant to Section 2.948 of the FCC Rules.

2. Distance between the EUT and measuring antenna:

3 meters.

3. Measuring instrumentations:

Rohde & Schwarz ESVP Test Receiver (20 - 1300 MHz) with a CISPR weighting QP detector, 6 dB bandwidth set at 120 KHz.

In the frequency range above 1000 MHz Spectrum Analyzer FMSM26 and Analyzer Display Unit FSAD are used, bandwidth set at 100 kHz.

4. Measuring antenna:

Broad-band antenna for the frequency range 30 - 300 MHz and frequency range 300 - 1000 MHz, connected with 10 meters coaxial cable. Cable loss of the coaxial cable included in the Antenna Factor for measurement data. The antennas are capable of measuring both horizontal and vertical polarizations.

Loop antenna for the frequency range 9KHz – 30MHz, connected with 10 meters coaxial cable. Cable loss of the coaxial cable included in the measurement data. The center of the loop 1 m above the ground plane, positioned with its plane vertical at the specified distance and rotated about its vertical axis and placed horizontal for maximum response at each azimuth about the EUT.

In the frequnecy range above 1 GHz horn-antenna RGA 50/60 is used.

5. Frequency range scanned:

The frequency range 30 - 5000 MHz has been scanned. Readings of the highest emissions relating to the limit were reported as above.

6. Arrangement of EUT:

During the test, the sample was operated at rated supply voltage and arranged for maximum emissions. To find the maximum emission, the antenna was raised from 1 to 4 meters and was stopped at the maximum emission point.

7. Measuring Procedure:

In accordance with the relevant sections of the American National Standards Institute (ANSI) C63.4-1992 'Methods of Measurement of Radio Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9KHz to 40GHz'.