



提供電器產品測試國際認證及諮詢服務 Technical Services in Electrical Product Testing International Certification & Information







FCC - Test Report

Date: 2010-12-09

No. 54812

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LABORATORY - REPORT

APPLICANT: EVER SHINING TECHNICAL COMPANY LIMITED

ADDRESS: Flat 8, 13/F., Wah Yiu Industrial Centre

30-32 Au Pui Wan Street Fo Tan, Shatin, N.T.

Hong Kong

DATE OF SAMPLE RECEIVED: 2010-11-16

DATE OF TESTING: 2010-11-24 to 2010-12-03

DESCRIPTION OF SAMPLE:

Product: USB Turntable

Product class: Class B Computing Device Peripheral

Model No.: L-79
FCC ID number: Y3YL-79

Rating: AC/DC adaptor : S006MU1200030, Input : AC 100-240V 50/60Hz,

Output: DC 12V 300mA

CONDITION OF TEST SAMPLE: The received sample was under good condition.

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

REQUESTED: Part 15 Subpart B – 'Unintentional 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.

ELECTRICAL CERTIFICATION

Stephen C.N. Wong Technical Manager











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- 8. Test Results
- 9-21. Measurement Data
- 22. Photo of sample

Address 地址.

Units 602-605, 6/F., 31 Lok Yip Rd , On Lok Tsuen, Faniing, N.T , Hong Kong. 香港新界粉積安樂村樂業路31號6槽602-605室

China 中國: Address 地址. IECC (Guangzhou) Services Co. Ltd. 廣州時亚遊技術服務有限公司 Flat A. 2/F , Block 3. 56 Shuiyin Road, Guangzhou, P.R. of China 廣州市水蔭路56號3棟2A室. Postcode 郵政網號 510075 Tel 電話. (852) 2305 2570 Fax 傅勇 (852) 2756 4480

Tel 心話 (86-20) 8768 4838 Fax 傳更 (86-20) 8768 3918 E-mail 17子製件 info@iecc.com.hk Home Page 網頁: http://www.iecc.com.hk

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Test Locations

International Electrical Certification Centre Ltd.

Units 602-605, 31 Lok Yip Road, On Lok Tsuen, Fanling, N.T., Hong Kong

Tel: +852 23052570 Fax: +852 27564480 Email: info@iecc.com.hk

Summary of Test Results

Radiated Emission:

Test result: O.K.

Test data: See attached data sheet

Conducted Emission:

Test result: O.K.

Test data: See attached data sheet

Address 地址

Units 602-605, 6/F, 31 Lok Yip Rd., On Lok Tsuen, Fanling N T. Hong Kong 香港新界份項安樂村梁乘路31號6樓602-605室

China 中國 Address 地址: IECC (Guangzhou) Services Co., Ltd. 屬州時並進技衛服務有限公司 Flat A. 2/F., Block 3, 56 Shuiyin Road, Guangzhou, PR of China 廣州市水幡路56號3棟2A至 Postcode 郵政钨號 510075 Tel 卓語 (852) 2305 2570 Fax 傅東 (852) 2756 4480

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TEST EQUIPMENT LIST

Equipment Manufacturer		Model	Serial No.	Last Calibration Date	Next Calibration Date	
Test Receiver	Rohde & Schwarz	ESCS 30	100388	11/11/2010	10/11/2011	
Test Receiver	Rohde & Schwarz	ESHS 30	839667/002	19/05/2010	18/05/2011	
Artificial Mains Network (LISN)	Schwarzbeck	NSLK 8127	8127312	11/01/2010	10/01/2011	
Antenna	Schaffner	CBL6111C	2791	30/09/2010	29/09/2012	
Antenna Mast System	Schwarzbeck	AM9104				
Turntable with Controller	Drehtisch	DT312				
Spectrum Analyzer with Q. Peak	Advantest	R3132	140101852	20/05/2010	19/05/2011	

TEST SUPPORT UNITS

The sample was tested with the following PC system:

Equipment	Manufacturer	Model	Serial No.			
NoteBook	DELL	PP10S	H8893 A02			
Keyboard (external)	DELL	SK-8115				
Mouse	HP	_	RK679PA#AB2			
Monitor (external)	ViewSonic	VLCDS23585-1W	90\$040201520			
Printer	HP	6L	JPZT102346			
Ethernet router	D-Link	DES-1008D	DRE9158000047			

Address 地址. China 四圖:

Address 地址.

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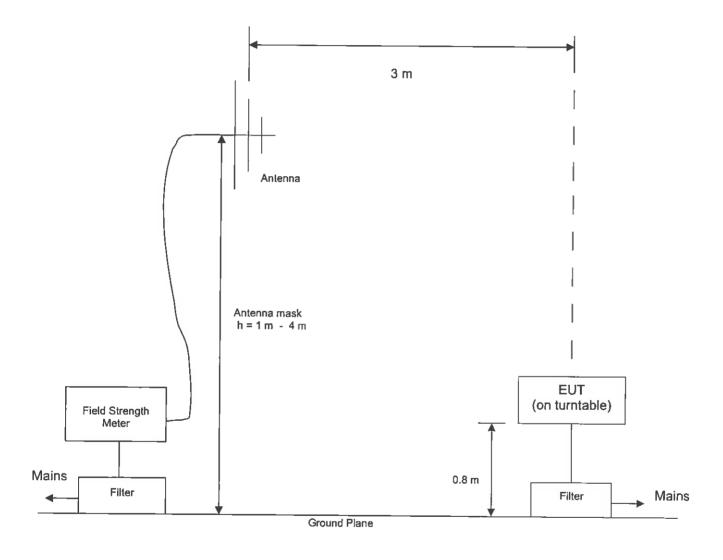


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Radiated Emission Test Setup (3 m diatance)







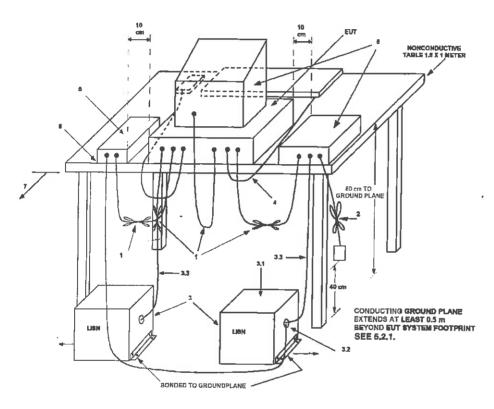




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Conducted Emission Test Setup



LEGEND:

- Interconnecting cables that hang closer than 40 cm to the groundplane shall be folded back and forth in the center forming a bundle 30 to 40 cm long (see 6.1.4 and 11.2.4).
- 2) I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m (see 6.1.4).
- 3) EUT connected to one LISN. Unused LISN measuring port connectors shall be terminated in 50 Ω. LISN can be placed on top of, or immediately beneath, reference groundplane (see 5.2.3 and 7.2.1).
 - 3.1) All other equipment powered from additional LISN(s).
 - 3.2) Multiple outlet strip can be used for multiple power cords of non-EUT equipment.
 - 3.3) LISN at least 80 cm from nearest part of EUT chassis.
- Cables of hand-operated devices, such as keyboards, mice, etc., shall be placed as for normal use (See 6.2.1.3 and 11.2.4).
- 5) Non-EUT components of EUT system being tested (see also Figure 13).
- Rear of EUT, including peripherals, shall all be aligned and flush with rear of tabletop (see 6.2.1.1 and 6.2.1.2).
- 7) Rear of tabletop shall be 40 cm removed from a vertical conducting plane that is bonded to the groundplane (see 5.2.2 for options).









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Test Procedure

Radiated Emission:

The EUT was tested according to ANSI 63.4-2003 for the requirements of FCC Part 15 Subpart B Section 15.109.

During the test, the sample was placed on a turn table and operated with supply at rated AC voltage (i.e AC120V 60Hz) to the AC/DC adaptor. The sample was operated under record playing mode and the playing signal was recorded to the host computer. The table is 0.8 meter above the reference ground plane on the Test Site and can rotate 360 degrees to determine the position of the maximum emission level. Broad-band antennas for the frequency range 30 - 1000 MHz, connected with 10 meters coaxial cable to the test receiver was used for measurement. The antenna is capable of measuring both horizontal and vertical polarizations. The antenna was raised from 1 to 4 meters to find out the maximum emission level from the EUT.

The computer system included a notebook computer, an external keyboard, a mouse, an external monitor, a printer and an ethernet router was connected to the sample during the test.

An initial pre-scan was performed to find out the maximum emission level of the sample placed at 3 orthogonal planes. Final measurement was then performed to record the data for the emissions under worst-case condition for combination of the antenna orientation / height and turn table position.

Note: The Open Aera Test Site located at IECC was placed on file with the FCC Pursuant to Section 2.948 of the FCC Rules (FCC Registration No.: 97774).

Conducted Emission:

For Class B Computing Device Peripheral:

The EUT was tested according to ANSI 63.4-2003 for the requirements of FCC Part 15 Subpart B Section 15.107.

During the test, the sample was placed on a wooden table and operated with supply at rated AC voltage (i.e AC120V 60Hz) via the LISN to the AC/DC adaptor. The sample was operated under record playing mode and the playing signal was recorded to the host computer. The table is 0.8 meter above the floor. The LISN was connected to the test receiver for conducted emission measurement (150kHz – 30MHz).

The computer system included a notebook computer, an external keyboard, a mouse, an external monitor, a printer and an ethernet router was connected to the sample during the test.

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Test Results

Radiated Emission:

Test Requirement: FCC Part 15 Subpart B Section 15.109

Test Method: ANSI C63.4 : 2003

Deviations from Standard Test Method: Nil

Frequency Range: 30MHz – 1000MHz

Measurement Distance: 3 m

Class B

Detector: Quasi-Peak

Refer to page 9-10 for measurement data.

Conducted Emission:

Test Requirement: FCC Part 15 Subpart B Section 15.107

Test Method: ANSI C63.4 : 2003

Deviations from Standard Test Method: Nil

Frequency Range: 150kHz – 30MHz

Class: Class B

Detector: Quasi-Peak / Average

Refer to page 11 - 21 for measurement data.

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Test Equipment

Receiver: Rohde & Schwarz ESCS 30

Antenna: Schaffner CBL6111C









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Radiated Emission

Acc: FCC Part 15 Subpart B (15.109) Class B

IECC Ref:

54812

Model:

Ser.Nr.:

L-79

Applicant:

EVER SHINING TECHNICAL

MANUFACTURING LIMITED

Set under test:

USB Turntable

Operating mode:

Playing record

Frequency (MHz)	Horz. Reading dB(µV)		Vert. Reading dB(μV)		Corr. Factor (dB)	Horiz. Test Result dB(μV/m)		Vert. Test Result dB(µV/m)		Limit dB(µV/m)
30	<	16.0	<	16.0	20.5	<	36.5	<	36.5	40.0
52	<	16.0		21.0	9.0	<	25.0		30.0	40.0
70	<	16.0	<	16.0	9.1	<	25.1	<	25.1	40.0
130	<	16.0	<	16.0	13.3	<	29.3	<	29.3	43.5
200	<	16.0	<	16.0	10.9	<	26.9	<	26.9	43.5
300	<	16.0	<	16.0	15.8	<	31.8	<	31.8	46.0
500	<	16.0	<	16.0	20.6	<	36.6	<	36.6	46.0
1000	<	16.0	<	16.0	28.0	<	44.0	<	44.0	54.0

The measurement results indicate that the test unit meets the FCC requirements.

Note:

- 1. The above measured data are in Quasi-Peak values.
- 2. The above results were the worst case results with the sample placed normally on the table for different turned angles during the test.

Operator: WH

Address 地址:

Units 602-605, 6/F, 31 Lok Yip Rd, On Lok Tsuen, Fanling, N.T. Hong Kong.

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Test Equipment

Receiver: Rohde & Schwarz ESCS 30

Antenna: Schaffner CBL6111C









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Date: 2010-12-09

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Radiated Emission

Acc: FCC Part 15 Subpart B (15.109) Class B

IECC Ref:

54812

Model:

L-79

Applicant:

EVER SHINING TECHNICAL

MANUFACTURING LIMITED

Ser.Nr.:

Set under test:

USB Turntable

Operating mode:

Data Transfer (Recording record playing signal to computer)

Frequency (MHz)		Horz. Reading dB(µV)		Vert. Reading dB(µV)	Corr. Factor (dB)		oriz. Test Result B(µV/m)	R	rt. Test lesult (µV/m)	Limit dB(µV/m)
30	<	16.0	<	16.0	20.5	<	36.5	<	36.5	40.0
47.99	<	16.0		21.5	10.7	<	26.7		32.2	40.0
50	<	16.0		21.0	9.3	<	25.3		30.3	40.0
86	<	16.0	<	16.0	10.8	<	26.8	<	26.8	40.0
120	<	16.0	<	16.0	13.6	<	29.6	<	29.6	43.5
132	<	16.0	<	16.0	13.2	<	29.2	<	29.2	43.5
140	<	16.0	<	16.0	12.9	<	28.9	<	28.9	43.5
300	<	16.0	<	16.0	15.8	<	31.8	<	31.8	46.0
500	<	16.0	<	16.0	20.6	<	36.6	<	36.6	46.0
1000	<	16.0	<	16.0	28.0	<	44.0	<	44.0	54.0

The measurement results indicate that the test unit meets the FCC requirements.

Note:

- 1. The above measured data are in Quasi-Peak values.
- 2. The above results were the worst case results with the sample placed normally on the table for different turned angles during the test.

Operator: WH

Address 地址:

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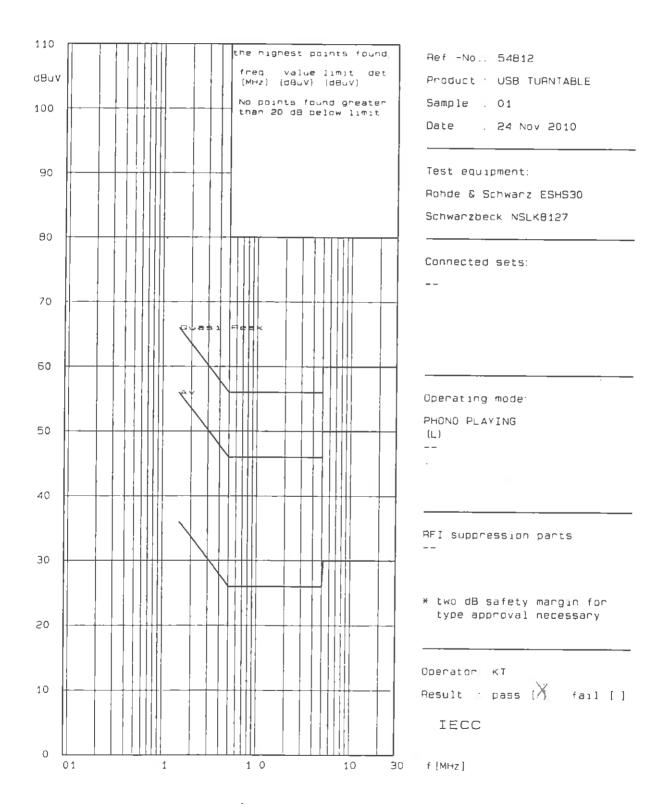
China 中國 Address 地址 IECC (Guangzhou) Services Co , Ltd 廣州時並進技術服務有限公司 Flat A, 2/F., Block 3, 56 Shuiyin Road, Guangzhou, P.R. of China. 廣州市水蔭路56號3棵2A室 Postcode 郵政編號 510075 Tel 募結 (852) 2305 2570 Fax 傳真 (852) 2756 4480

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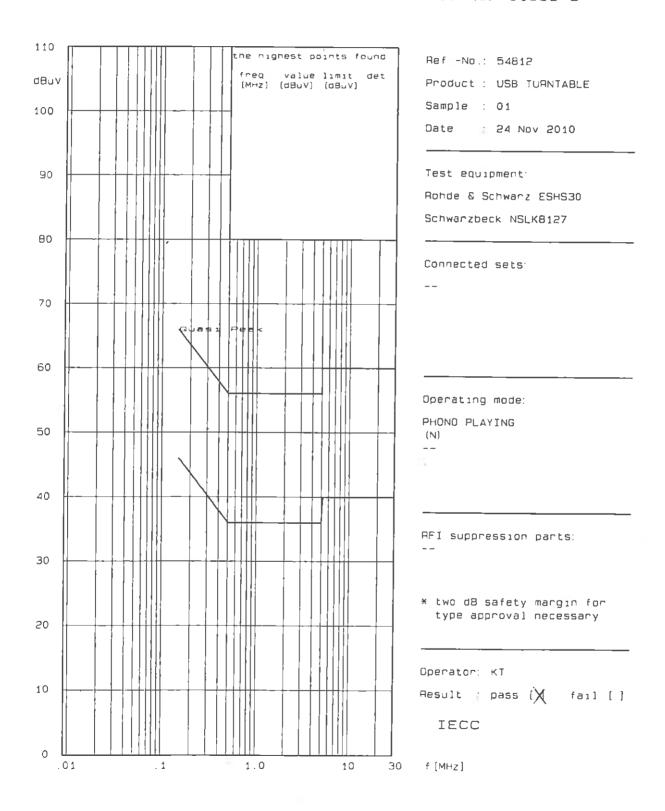
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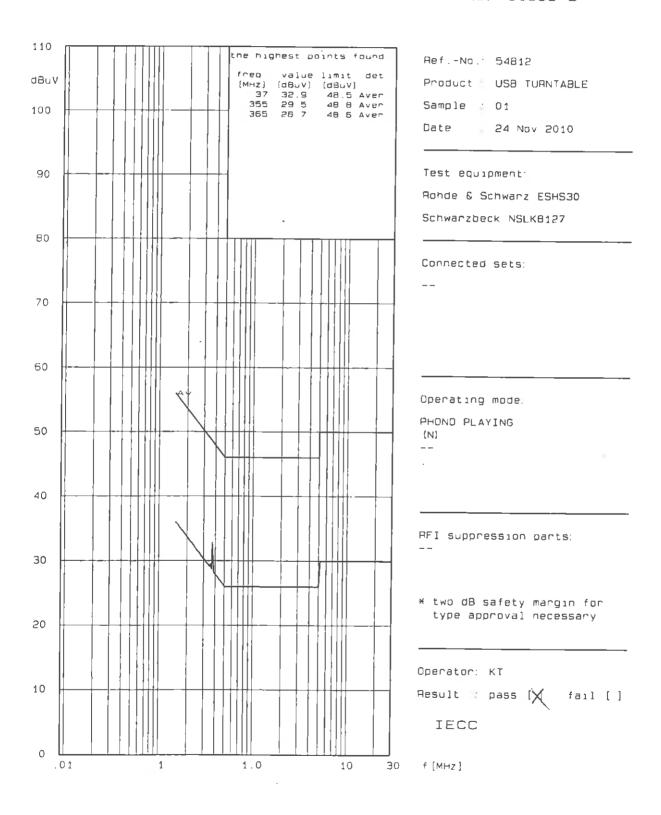
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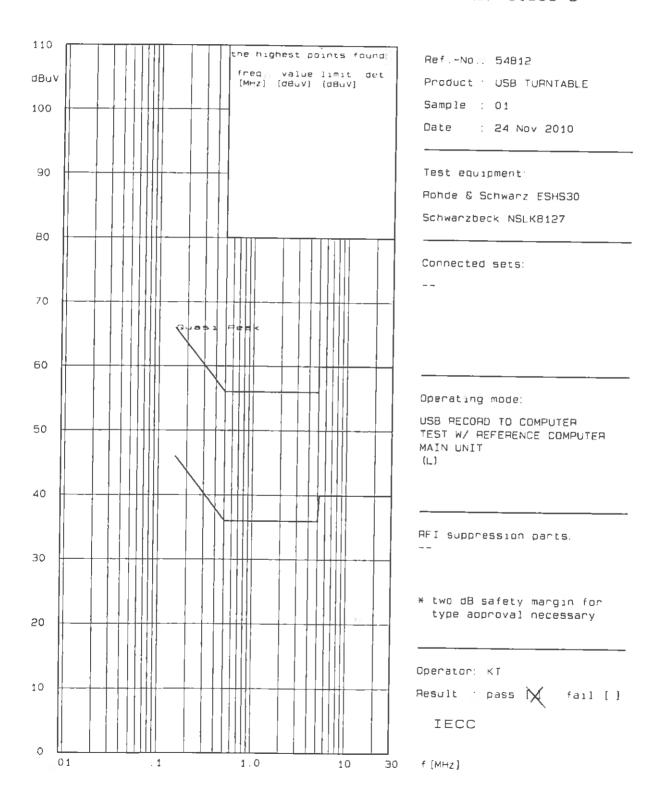
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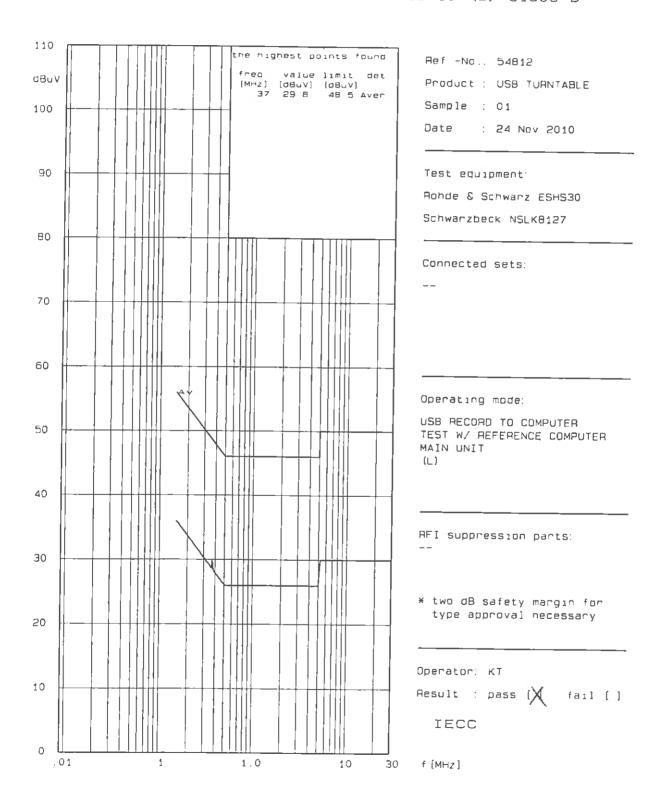
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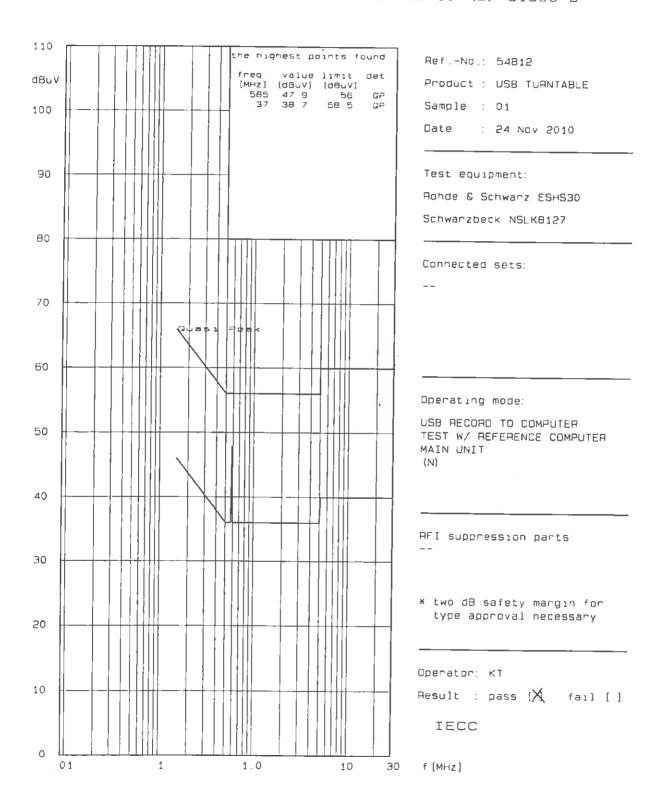
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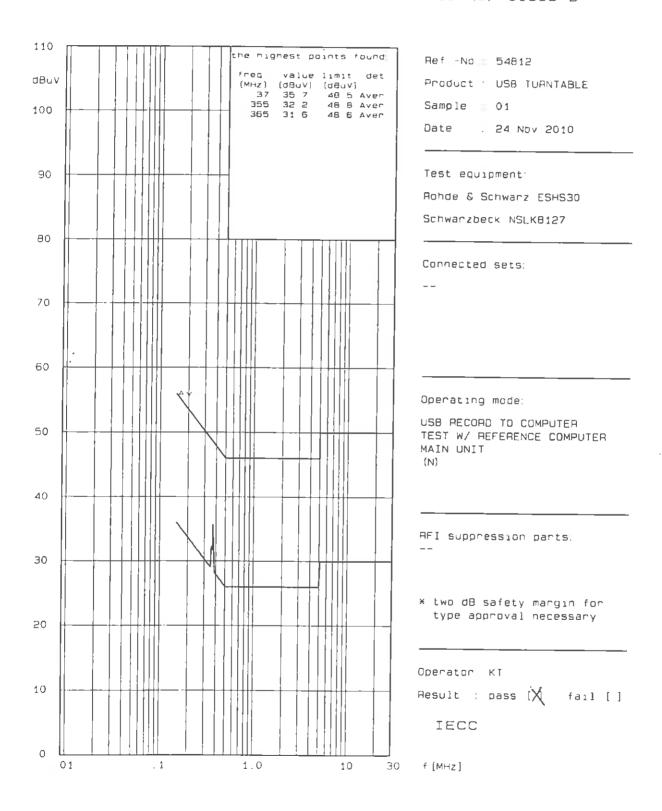
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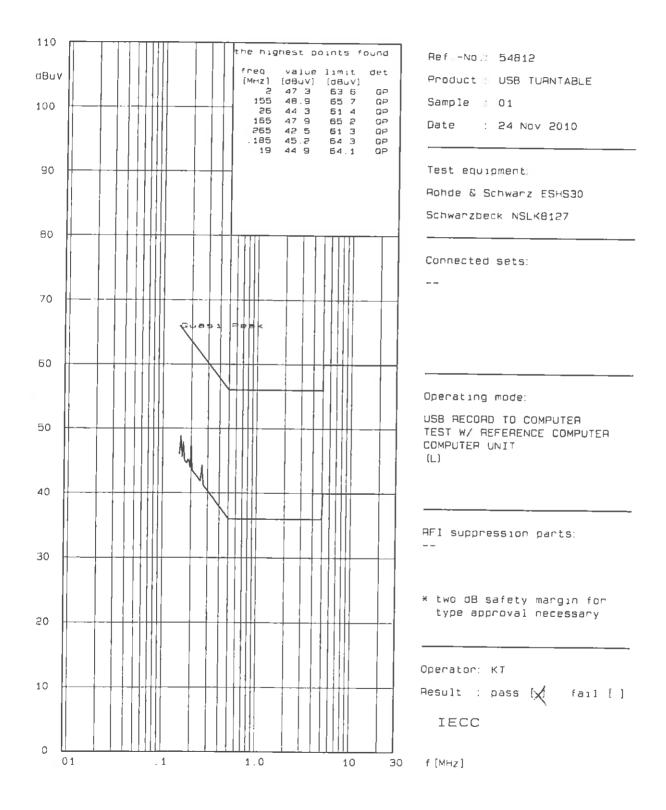
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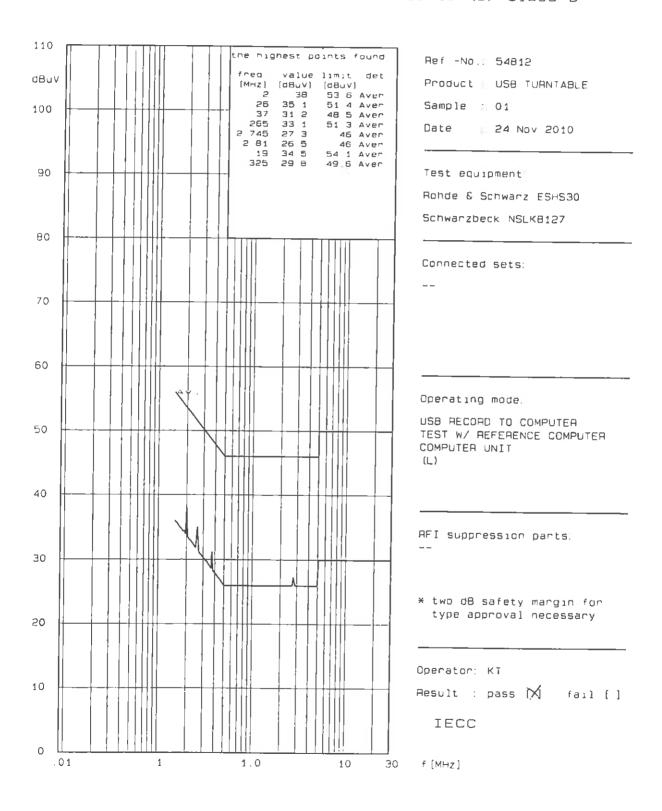
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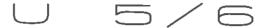


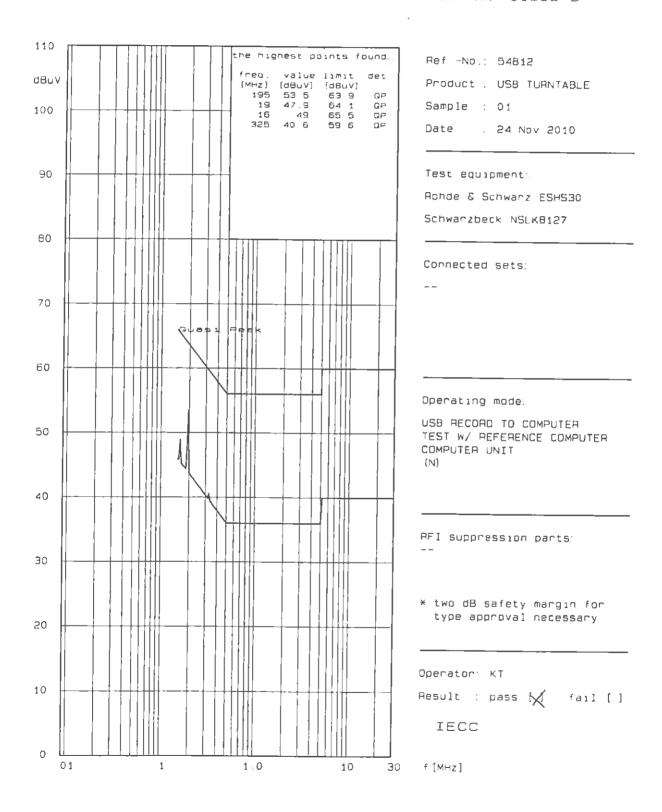
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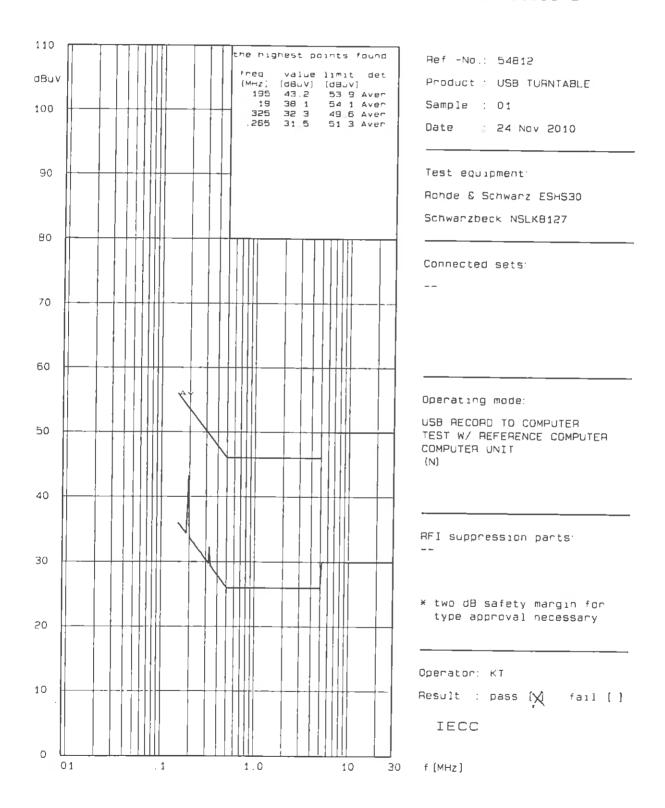
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Photo of Sample



Sample Outlook



AC/DC Adaptor - Rating Plate