

FCC – Test Report

Date: 2009-05-06

No. 52128

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LABORATORY - REPORT

APPLICANT: DEBREU LIMITED
ADDRESS: Flat C, 20/F., Gold King Building
35-41 Tai Lin Pai Road
Kwai Chung, N.T.
Hong Kong

DATE OF SAMPLE RECEIVED: 2008-04-27

DATE OF TESTING: 2009-04-29 to 2009-04-30

DESCRIPTION OF SAMPLE:

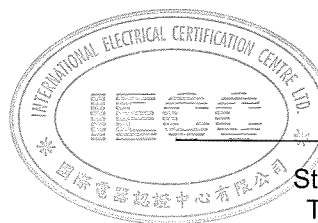
Product: USB Memory Stick
Product class: Class B Computing Device Peripheral
Model No.: JPG
FCC ID number: XDN-SCENTDRIVE-JPG
Rating: DC 5V (USB power)

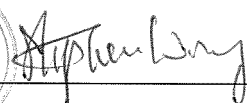
CONDITION OF TEST SAMPLE: The received sample was under good condition.

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




Stephen C.N. Wong
Technical Manager

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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

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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	26/8/2008	25/8/2009
Test Receiver	Rohde & Schwarz	ESHS 30	839667/002	07/01/2009	06/01/2010
Artificial Mains Network (LISN)	Schwarzbeck	NSLK 8127	8127312	2/12/2008	1/12/2009
Antenna	Schaffner	CBL6111C	2791	22/07/2008	21/07/2010
Antenna Mast System	Schwarzbeck	AM9104	--	--	--
Turntable with Controller	Drehtisch	DT312	--	--	--

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	90S040201520
Printer	HP	6L	JPZT102346
Ethernet router	D-Link	DES-1008D	DRE9158000047

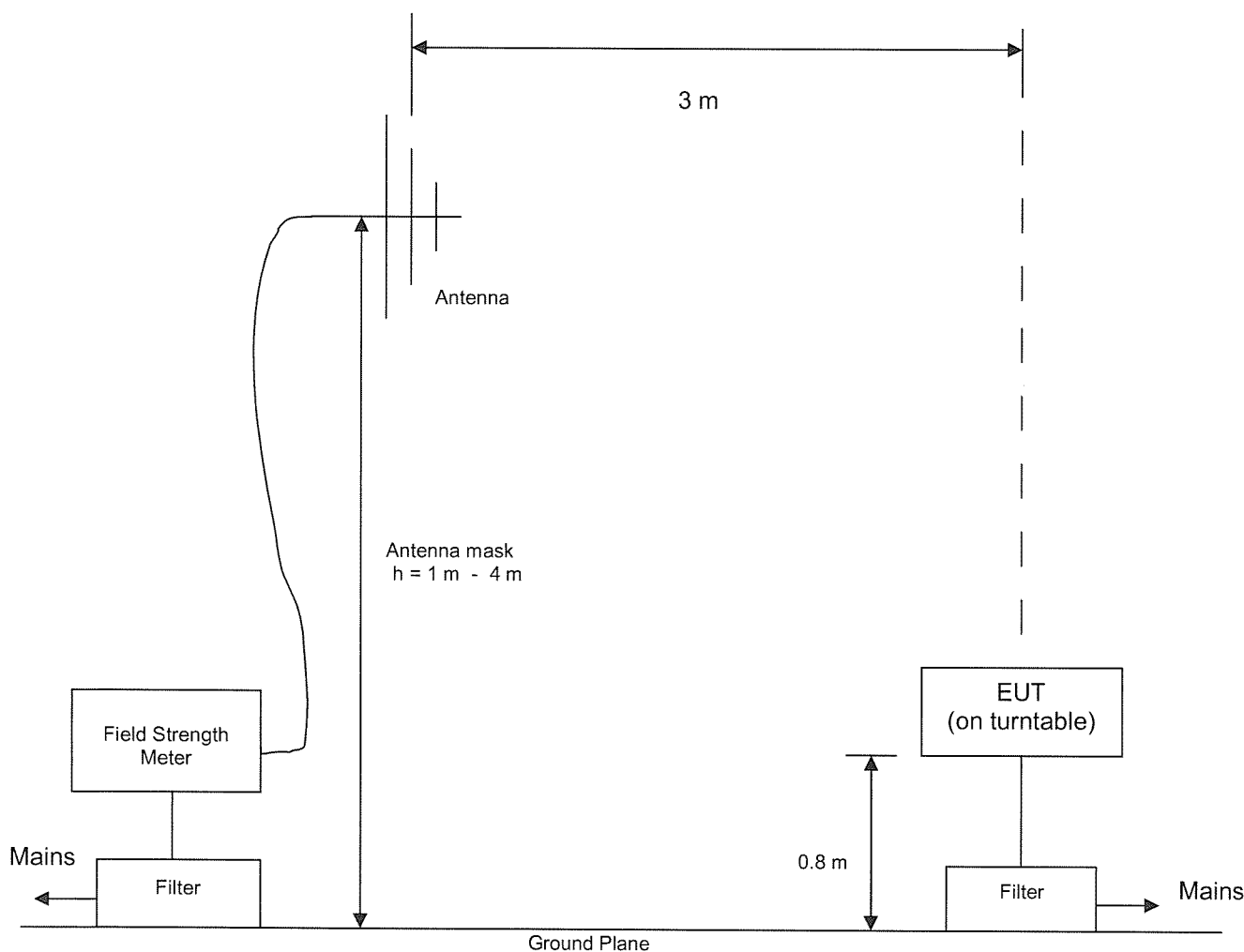
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Radiated Emission Test Setup (3 m distance)



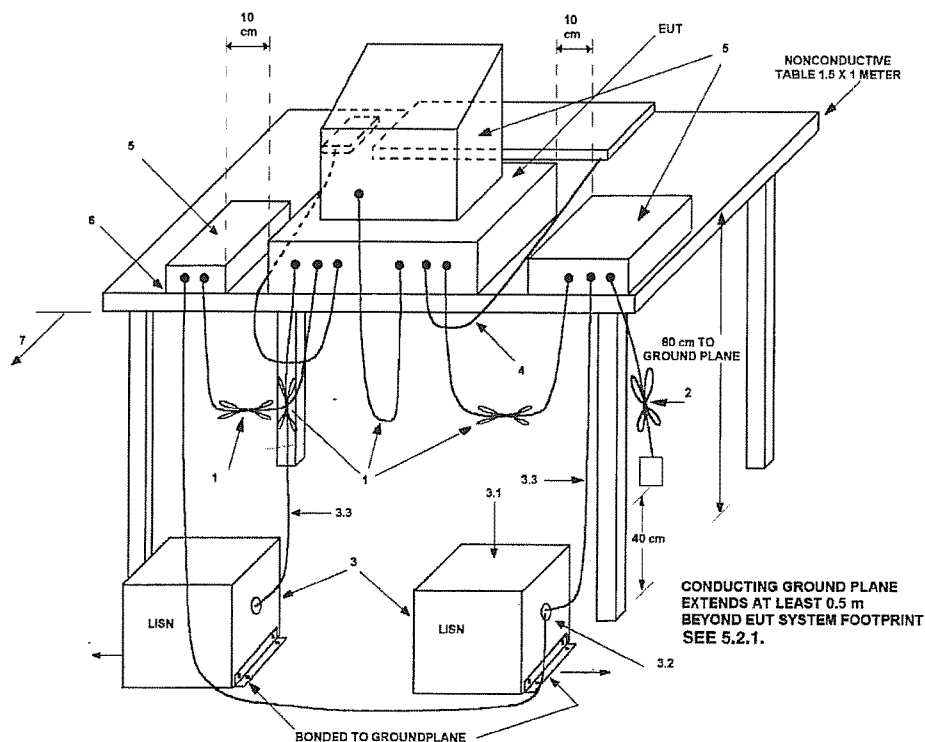
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Conducted Emission Test Setup



LEGEND:

- 1) 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.
- 4) 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).
- 6) 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 under data transfer mode with the host computer. 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. The table is 0.8 meter above the reference ground plane on the Open Area Test Site and can rotate 360 degrees to determine the position of the maximum emission level. A broad-band antenna 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.

An initial pre-scan was performed to find out the maximum emission level of the sample. Final measurement (30 MHz – 1000 MHz) 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 Area 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 :

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 turn table and operated under data transfer mode with the host computer. The table is 0.8 meter above the floor. 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. The host notebook computer was connected to the LISN which was connected to the test receiver for conducted emission measurement (150kHz – 30MHz).

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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:	Class B
Detector:	Quasi-Peak

Refer to page 9 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 10 - 13 for measurement data.

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Radiated Emission 30MHz-1000MHz

Acc: FCC Part 15 Subpart B (15.109)

IECC Ref: 52128

Model: JPG

Applicant: DEBREU LIMITED

Ser.Nr.: --

Set under test: USB Memory Stick

Connected sets: -

Operating mode: DataTransfer with the host computer

Test Equipment

Receiver: Rohde & Schwarz ESCS 30

Antenna: Schaffner CBL6111C

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	19.1	< 35.1	< 35.1	40.0
50	< 16.0	< 16.0	7.7	< 23.7	< 23.7	40.0
100	< 16.0	< 16.0	9.5	< 25.5	< 25.5	43.5
200	< 16.0	< 16.0	8.6	< 24.6	< 24.6	43.5
300	< 16.0	< 16.0	14.2	< 30.2	< 30.2	46.0
500	< 16.0	< 16.0	18.9	< 34.9	< 34.9	46.0
700	< 16.0	< 16.0	22.3	< 38.3	< 38.3	46.0
1000	< 16.0	< 16.0	26.2	< 42.2	< 42.2	54.0

The measurement results indicate that the test sample 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 positioned in all 3 axis during the test. No significant radiation was found during the test.

Operator : YH



U 5 / 6

Interference Voltage 150 KHz - 30 MHz

acc. FCC PART 15 Subpart B Section 15.107 (a) Class B

Model: JPG

Spl./Ser.No.: 01/--

Client : DEBREU LTD.

Product: USB MEMORY STICK

IECC-No.: 52128

Date: 29 Apr 2009

Test equipment:

Rohde & Schwarz ESHS30

Schwarzbeck NSLK8127

Connected sets:

--

Operating mode:

DATA TRANSFER

(L)

TEST W/ REFERENCE COMPUTER

--

RFI suppression parts:

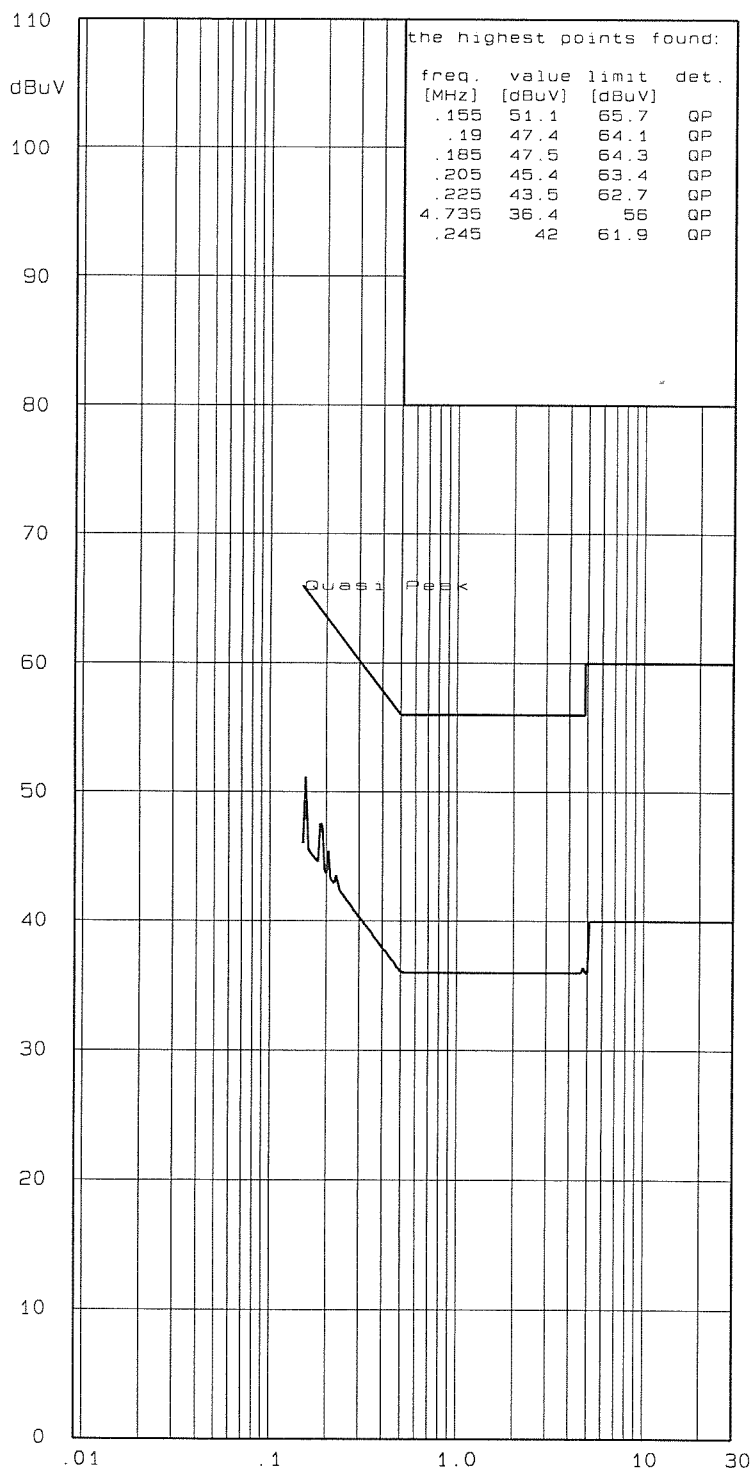
--

* two dB safety margin for
type approval necessary

Operator: YH

Result: OK

IECC



U 5 / 6

Interference Voltage 150 KHz - 30 MHz

acc. FCC PART 15 Subpart B Section 15.107 (a) Class B

Model: JPG

Spl./Ser.No.: 01/--

Client : DEBREU LTD.

Product: USB MEMORY STICK

IECC-No.: 52128

Date: 29 Apr 2009

Test equipment:

Rohde & Schwarz ESHS30

Schwarzbeck NSLK8127

Connected sets:

--

Operating mode:

DATA TRANSFER

(L)

TEST W/ REFERENCE COMPUTER

--

RFI suppression parts:

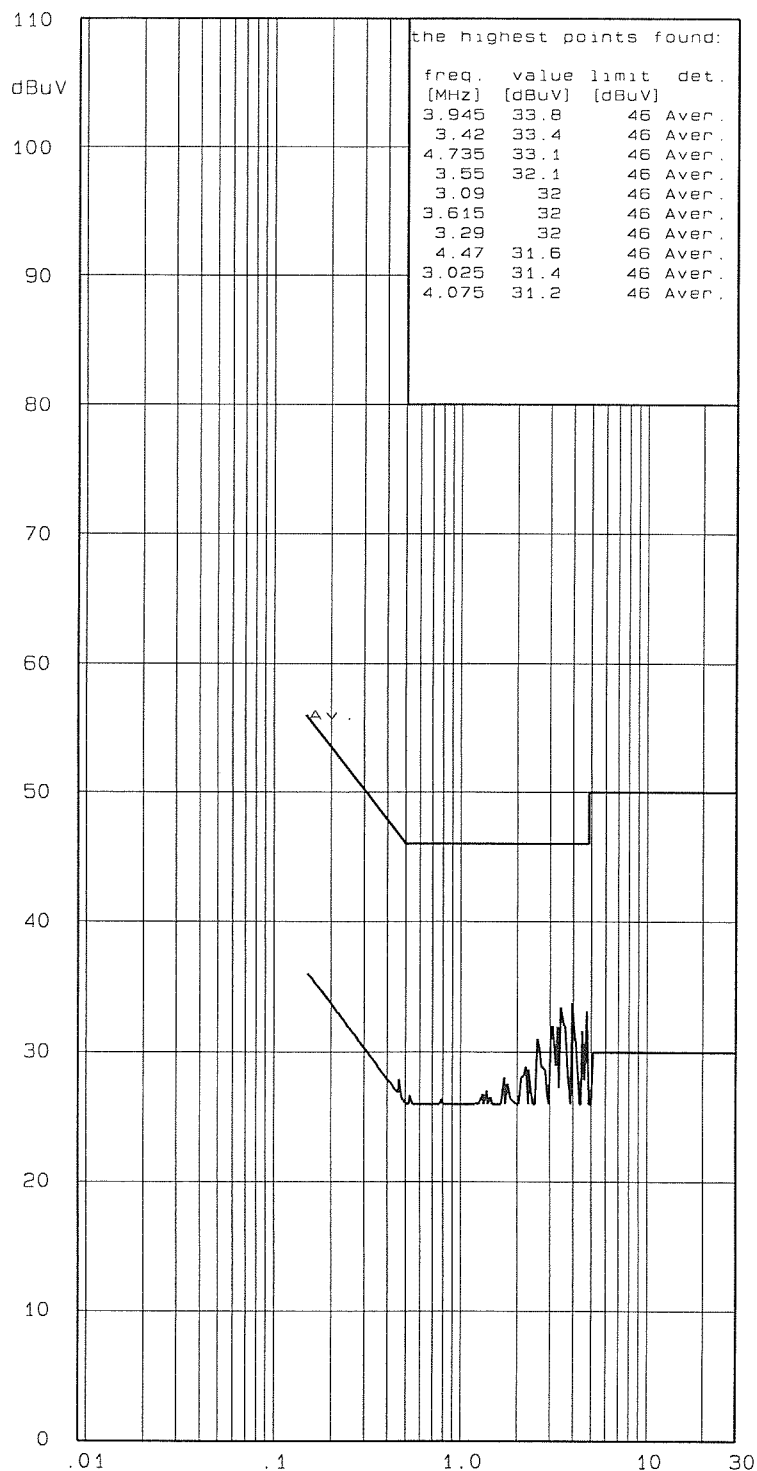
--

* two dB safety margin for
type approval necessary

Operator: YH

Result: OK

IECC



U 5 / 6

Interference Voltage 150 KHz - 30 MHz

acc. FCC PART 15 Subpart B Section 15.107(a) Class B

Model: JPG

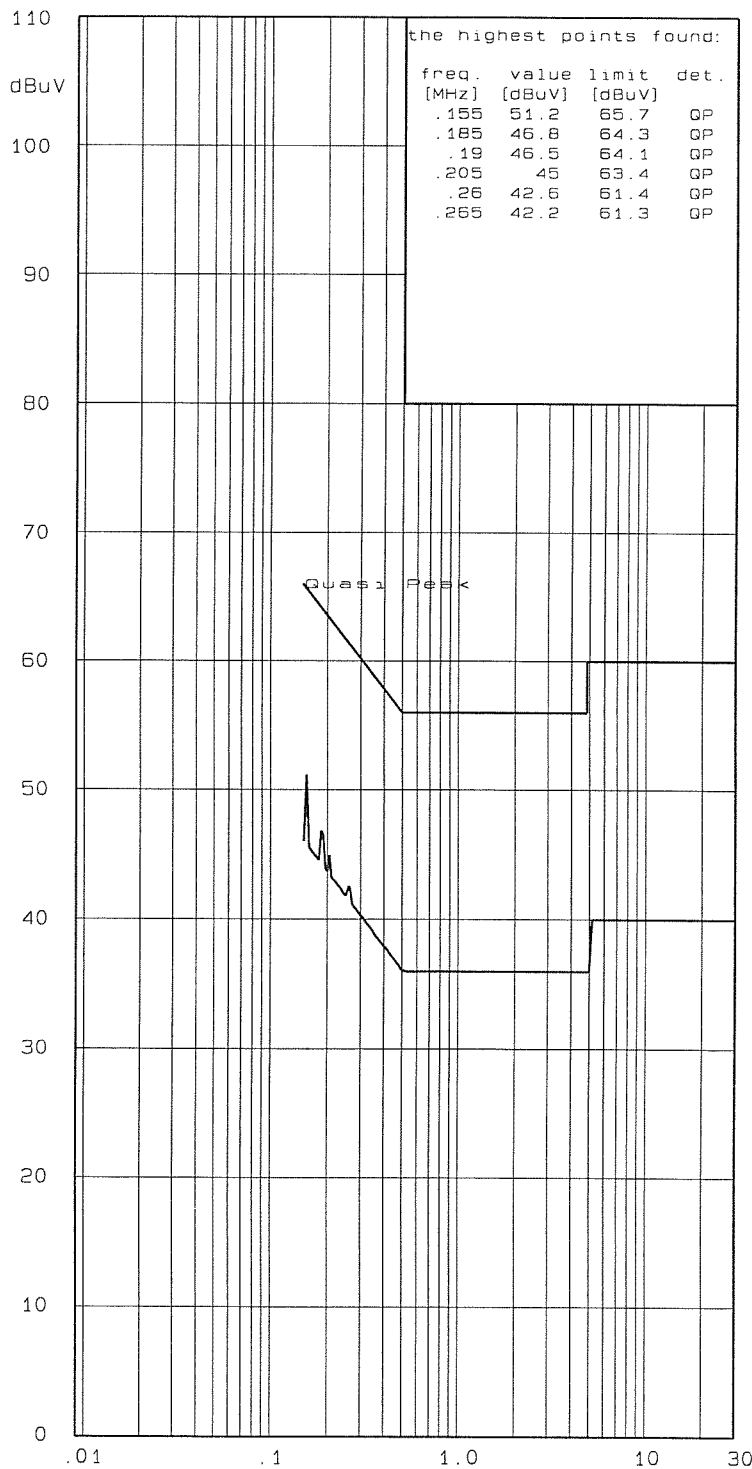
Spl./Ser.No.: 01/--

Client : DEBREU LTD.

Product: USB MEMORY STICK

IECC-No.: 52128

Date: 29 Apr 2009



Test equipment:

Rohde & Schwarz ESHS30

Schwarzbeck NSLK8127

Connected sets:

--

Operating mode:

DATA TRANSFER

(N)

TEST W/ REFERENCE COMPUTER

--

RFI suppression parts:

--

* two dB safety margin for
type approval necessary

Operator: YH

Result: OK

IECC

U 5 / 6

Interference Voltage 150 KHz - 30 MHz

acc. FCC PART 15 Subpart B Section 15.107 (a) Class B

Model: JPG

Spl./Ser.No.: 01/--

Client : DEBREU LTD.

Product: USB MEMORY STICK

IECC-No.: 52128

Date: 29 Apr 2009

Test equipment:

Rohde & Schwarz ESHS30

Schwarzbeck NSLK8127

Connected sets:

--

Operating mode:

DATA TRANSFER

(N)

TEST W/ REFERENCE COMPUTER

--

RFI suppression parts:

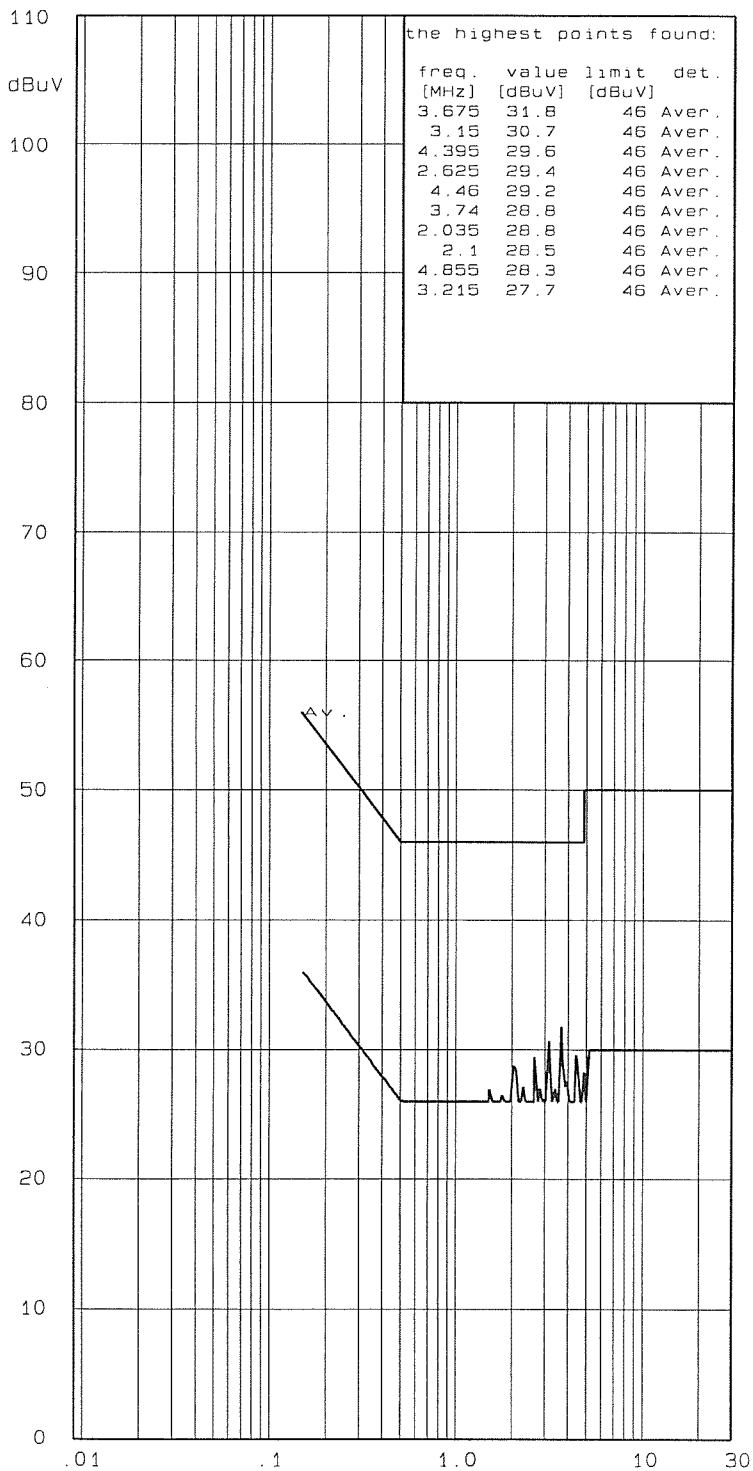
--

* two dB safety margin for
type approval necessary

Operator: YH

Result: OK

IECC



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Photo of Sample