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[.]CONDUCTED EMISSION PLOT

[.]RADIATED EMISSION DATA

[.]EUT PHOTOGRAPHS

1. VERIFICATION OF COMPLIANCE



COMPANY NAME: LAB

LABWAY CORPORATION

6F, 788, CHUNG CHENG RD., CHUNG HO CITY

TAIPEI HSIEN, TAIWAN, R. O. C.

CONTACT PERSON: CHRIS FONG / R&D MANAGER

TELEPHONE NO: (02) 323-40222

MODEL NO/NAME: A311H3

SERIAL NO:

N/A

DATE TESTED:

AUGUST 27, 1998

TYPE OF EQUIPMENT:	INFORMATION TECHNOLOGY EQUIPMENT (ITE)	
MEASUREMENT DISTANCE:	() 3 METER (×) 10 METER	
TECHNICAL LIMIT:	CLASS B	
FCC RULES:	PART 15	
MEASUREMENT PROCEDURE	ANSI C63.4:92 / EN55022	
EQUIPMENT AUTHORIZATION PROCEDURE	CERTIFICATION	
MODIFICATION MADE ON EUT	∑ YES □ NO	
DEVIATIONS FROM MEASUREMENT PROCEDURE	YES (refer to section 21 for comments) NO	
RADIATED EMISSION TEST RESULT	-2.1 dB @ 147.45 MHz/VERTICAL	
CONDUCTED EMISSION TEST RESULT	-14.09 dB @ 0.162 MHz/L1	

The above equipment was tested by Compliance Engineering Services, Inc. for compliance with the requirements set forth in the FCC CFR 47, PART 15. The results of testing in this report apply to the product/system which was tested only. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Approved By

Acknowledged By

MIKE C.I. KUO / VICE PRESIDENT

COMPLIANCE ENGINEERING SERVICES

CHRIS FONG / R&D MANAGER

LABWAY CORPORATION

DATE:SEPTEMBER 2, 1998 FCC ID:LWHA311H3

2. PRODUCT DESCRIPTION

LIST OF EACH OSC. OR XTAL. FREQ. (FREQ.>=1 MHz)	Y1 = 49.152 MHz
CHIPSET BRAND AND PART NO.	ESS, Maestro-2
NUMBER OF PCB LAYERS	2 LAYERS
POWER REQUIREMENTS	DC 5/12 V
NO. OF EXTERNAL I/O CONNECTORS	4

TESTED SYSTEM DETAILS 3.

The Model names for all equipment, plus descriptions of all cables used in the tested system (including inserted cards) are:

Host Computer

Device Type	Manufacturer	Model Number	Serial Number	FCC ID / DoC
HOST COMPUTER	VIVA	VIVA586-133	HS-04	DOC
HARD DRIVE	Seagate	ST3630A	HD-04	N/A
FLOPPY DRIVE	NEC	FD1231H	FD-04	N/A
CD-ROM DRIVE	SONY	CDU311	CD-04	AK8CDU31110
VGA CARD	CARDEX	S3 TRIO64V2	CV19	ICUVGA-GW503B
I/O CARD	BUILT-IN	N/A	N/A	N/A
SOUND CARD	LABWAY	А311Н3	N/A	LWHA311H3

External Peripheral Devices

Device Type	Manufacturer	Model Number	Serial No.	FCC ID / DoC
MONITOR	VIVA	1568	N/A	DOC
KEYBOARD	Acer	6511- TW	КВ-10	JVPKBS-WIN
MOUSE	LOGITECH	M-M35	ME-02	DZL210365
PRINTER	MATSUSHITA	KX-P1080i	PRN-01	ACJ5Z6KX-P1080I
SPEAKER	J-S	J-003	SPK-04	N/A
PLAYER	Matsushita	RQ-L317	PLY-02	N/A
MICROPHONE	KOKA	DM-510	MIC-01	N/A
JOYSTICK	LOGITECH	3119	JOY-05	N/A

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4. TEST FACILITY

The open area test sites and conducted measurement facilities used to collect the radiated data are located at No. 199, Chung Sheng Road, Hsin Tien City, Taipei, Taiwan R.O.C. The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 and CISPR Publication 22.

ACCREDITATION AND LISTING 5.

The test facilities used to perform radiated and conducted emissions tests are accredited by National Voluntary Laboratory Accreditation Program for the specific scope of accreditation under Lab Code: 200064-0 to perform Electromagnetic Interference tests according to FCC PART 15 AND CISPR 22 requirements. No part of this report may be used to claim or imply product endorsement by NVLAP or any agency of the US Government. In addition, the test facilities are listed with Federal Communications Commission (reference no: 31040/SIT(1300F2))

MEASUREMENT INSTRUMENTATION 6.

Radiated emissions were measured with one or more of the following types of linearly polarized antennas: tuned dipole, biconical, log periodic, bi-log, ridged waveguide, liner horn. EMI receivers were used for line conducted readings, spectrum analyzers with preselectors and quasi-peak detectors were used to perform radiated Receiving equipment (i.e., receiver, analyzer, measurements. quasi-peak adapter, pre-selector) and LISNs conform to CISPR specification for "Radio Interference Measuring Apparatus and Measurement Methods," Publication 16.

Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.

7. MEASURING INSTRUMENT CALIBRATION

The measuring equipment which was utilized in performing the tests documented herein has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment which is traceable to recognized national standards.

COMPLIANCE ENGINEERING SERVICES, INC.

8. UNITS OF MEASUREMENT

Measurements of radiated interference are reported in terms of $dB\left(uV/m\right)$ at a specified distance. The indicated readings on the spectrum analyzer were converted to $dB\left(uV/m\right)$ by use of appropriate conversion factors. Measurements of conducted interference are reported in terms of $dB\left(uV\right)$.

The field strength is calculated by adding the Antenna Factor and Cable Factors, then by subtracting the Amplifier Gain from the measured reading. The basic equation with a sample calculation is as follows:

FS = RA + AF + CF - AG

WhereFS = Field Strength

RA = Receiver Amplitude

AF = Antenna Factor

CF = Cable Attenuation Factor

AG = Amplifier Gain

Assume a receiver reading of 52.5 dBuV is obtained. The Antenna Factor of 7.4dB/m and a Cable Factor of 1.1dB is added. The Amplifier Gain of 29 dB is subtracted, giving a field strength of 32 dBuV/m. The 32 dBuV/m value was mathematically converted to its corresponding level in uV/m.

 $FS = 52.5 + 7.4 + 1.1 - 29 = 32 \, dBuV/m$

Level in uV/m = Common Antilogarithm [(32 dBuV/m)/20] = 39.8 uV/m

9. ANTENNAS

The calibrated antennas used to sample the radiated field strength are mounted on a non-conductive, motorized antenna mast 10 meters from the leading edge of the turn table.

10. CLASSIFICATION OF DIGITAL DEVICE

Class A includes digital devices that are marketed for use in commercial, industrial or business environments, excluding devices which are marketed for use by the general public or are intended to be used in the home.

Class B includes digital devices that are marketed for use in residential environments, notwithstanding use in commercial, business and industrial environments.

Note: The responsible party may also qualify a device intended to be marketed in a commercial, business or industrial environment as

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Class B device, and in fact is encouraged to do so provided the device complies with the technical specifications for a Class B digital device. In the event that a particular type of device has been found to repeatedly cause harmful interference to radio communications, the Commission may classify such a digital device as a Class B digital device, regardless of its intended use.

11. RADIATED EMISSION LIMITS

FCC PART 15 CLASS B

	100 11111 10 011100 2	
MEASUR	ING DISTANCE OF 3 MET	ER
FREQUENCY RANGE (MHz)	FIELD STRENGTH (Microvolts/m)	FIELD STRENGTH (dBuV/m)
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

FCC CLASS B ALTERNATIVE DISTANCE (CISPR 22:1993)

тос сшаро в т	TILLIAMITAT DIDITACE (010111 00111111
MEASUR	ING DISTANCE OF 10 MET	ER
FREQUENCY RANGE (MHz)	FIELD STRENGTH (Microvolts/m)	FIELD STRENGTH (dBuV/m)
30-88	30	29.5
88-216	45	33.0
216-960	60	35.6
960-1000	150	43.5
ABOVE 1000	150	43.5

Note: Limits extrapolated 20dB/decade

FCC PART 15 CLASS A

MEASUR I	MEASURING DISTANCE OF 10 METER		
FREQUENCY RANGE (MHz)	FIELD STRENGTH (Microvolts/m)	FIELD STRENGTH (dBuV/m)	
30-88	90	39.1	
88-216	150	43.5	
216-960	210	46.4	
Above 960	300	49.5	

12. CONDUCTED EMISSION LIMITS

CLASS B

FREQUENCY RANGE	FIELD STRENGTH	FIELD STRENGTH
_	(Microvolts)	(dBuV)
450kHz-30MHz	250	48

CLASS A

FREQUENCY RANGE	FIELD STRENGTH (Microvolts)	FIELD STRENGTH (dBuV)
450kHz-1.705MHz	1000	60
1.705MHz - 30MHz	3000	69.54

13. CONDUCTED EMISSION TEST PROCEDURE

The EUT is located so that the distance between the boundary of the EUT and the closest surface to the LISN is 0.8m.

EUT test configuration is according to Section 7 of ANSI C63.4/1992.

Conducted disturbance shall be measured between the phase lead and the ground, and between the neutral lead and the ground. The frequency 0.450 - 30 MHz shall be investigated.

Set the EMI receiver to PEAK detector setting and sweep continuously over the frequency range to be investigated. Set resolution bandwidth to 9kHz minimum. Connect EMI receiver input cable to LINE 1 RF measurement connection on the LISN. Connect a 50ohm terminator to the unused RF connection on the LISN. For each mode of EUT operation, maximize emissions readings by manipulating cable and wire positions. Record the configuration for each EUT power cord which produces emissions closest to the limit. Repeat the same procedure for LINE 2 of each EUT power cord.

14. RADIATED EMISSION TEST PROCEDURE

The EUT and all other support equipment are placed on a wooden table 80 cm above the ground screen. Antenna to EUT distance is either 3 meters or 10 meters (Class B or Class A). During the test, the table is rotated 360 degrees to maximize emissions, and the antenna is positioned from 1 to 4 meters above the ground screen to further maximize emissions. The antenna is polarized in both vertical and horizontal positions.

EUT test configuration is according to Section 8 of ANSI C63.4/1992.

Monitor the frequency range of interest at a fixed antenna height and EUT azimuth. Frequency span should be small enough to easily

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differentiate between broadcast stations and intermittent ambients. Rotate EUT 360 degrees to maximize emissions received from EUT. If emission increases by more than 1 dB, or if another emission appears that is greater by 1 dB, return to azimuth where maximum occurred and perform additional cable manipulation to further maximize received emission.

Move antenna up and down to further maximize suspected highest amplitude signal. If emission increased by 1 dB or more, or if another emission appears that is greater by 1dB or more, return to antenna height where maximum signal was observed and manipulate cables to produce highest emissions, noting frequency and amplitude.

15. AMBIENT CONDITIONS

The ambient conditions at the time of final tests were as follows:

	Radiated Emission	Conducted Emission
Temperature	31°C	26℃
Humidity	85%	80%

16. SYSTEM TEST CONFIGURATION

The equipment under test was configured and operated in a manner which tended to maximize its emission characteristics in a typical application. Power and signal distribution, ground, interconnecting cabling and physical placement of equipment simulated the typical application and usage insofar as practicable.

	SOFTWARE USED DURING THE TESTS
Operating System	WINDOWS 95
File Name	AUDIO ROCK32, EMITEST.EXE
Program Sequence	1. WINDOWS 95 BOOTS SYSTEM. 2. RUN AUDIO ROCK32 TO PLAY CD MUSIC. 3. PLAY TAPE TO LINE-IN. 4. RUN EMITEST.EXE EXCUTE TO ALL PERIPHERALS AND DISPLAY "H" PATTERN ON MONITOR SCREEN.

17. EQUIPMENT MODIFICATIONS

To achieve compliance to CLASS B levels, the following change(s) were made during compliance testing:

- Mod.#1 CHANGE C37 WITH 0.1 μ F CAPACITOR.
- Mod.#2 REPLACED R44 RESISTOR TO BE A R-C LOW PASS FILTER. (R=75 Ω , C=22 pF).
- Mod.#3 SOLDER I/O BRACKET WITH PNONE JACK GROUND.

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19. TEST EQUIPMENT LIST

#4"			-	1	Cal	Due
Equipment	Manuf.	Model No.	Serial No.	Site	Date	Date
EMI TEST	ROHDE	DSAI-D	827832/001	D	11/97	11/98
DISPLAY	& SCHWARZ	804.8932.52				
EMI TEST RF	ROHDE	ESBI-	827832/001	D	11/97	11/98
UNIT	& SCHWARZ	RF/1005.4300.52				
AMPLIFIER	H.P.	8447E A	272A02379	D	12/97	12/98
ANTENNA	EMC TEST SYSTEMS	CBL6111	1118	D	4/98	4/99
LISN(EUT)	EMCO	3825/2	1842	D	1/98	1/99
LISN	EMCO	3825/2	1435	D	6/98	6/99
CABLE	TALLEY	HELIX FSJ4-50B	D0301	D	12/97	12/98
CABLE	TIME MICROWAVE	LMR-400-2	D1001	D	12/97	12/98
				<u> </u>		
SPECTRUM ANALYZER	H.P.	8568B	2928A04814	E	2/98	2/99
SPECTRUM DISPLAY	H.P.	85662 A	2848A18276	E	2/98	2/99
QUASI-PEAK DETECTOR	Н.Р.	85650A	2811A01439	E	2/98	2/99
AMPLIFIER	H.P.	8447D B	1644A02328	E	4/98	4/99
ANTENNA	CHASE	CBL6111A	1547	E	10/97	10/98
TEST	ROHDE	ESHS20	840455/006	E	2/98	2/99
RECEIVER	& SCHWARZ					
LISN	EMCO	3825/2	1371	E	9/97	9/98
LISN(EUT)	FISCHER	FCC-LISN-50/250 -25-2	107	E	4/98	4/99
CABLE	TIME	LMR-400-2	E1001	E	4/98	4/99
	MICROWAVE					
CABLE	TALLEY	HELIX FSJ4-50B	E0301	E	4/98	4/99

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20. CORRECTION FACTOR

OATS NO. D

	F	ANTENNA	3 METER	A	ANTENNA 10 METER		
FREQ	HORI.	VERT.	CABLE LOSS	HORI.	VERT.	CABLE LOSS	AMP GAIN
(MHZ)			(dB)]	(dB)	(dB)
30	20.35	17.65	0.66	18.32	16.84	0.68	22.26
35	16.29	15.02	0.68	15.33	14.36	0.73	22.23
40	13.65	12.09	0.73	13.11	11.87	0.83	22.26
4.5	10.69	9.88	0.81	10.31	9.70	0.91	22.24
50	8.42	7.42	0.81	8.46	8.25	0.92	22.21
60	5.29	5.81	0.92	5.41	4.57	1.02	22.15
70	5.12	4.95	0.99	5.75	4.91	1.09	22.11
80	6.46	6.71	1.05	6.93	7.29	1.15	22.20
90	8.14	8.86	1.01	8.37	8.46	1.22	22.21
100	9.70	10.47	1.09	9.72	9.16	1.32	22.14
120	11.09	12.51	1.14	11.09	11.04	1.37	22.14
125	11.20	12.32	1.27	11.13	11.27	1.53	22.03
140	11.59	12.46	1.35	10.86	10.91	1.57	22.09
150	11.05	11.35	1.35	10.34	11.02	1.63	22.06
160	10.56	11.08	1.39	9.92	10.16	1.70	22.18
175	9.55	9.91	1.50	9.17	9.08	1.76	22.21
180	9.50	9.70	1.42	8.86	9.26	1.72	22.18
200	9.95	10.14	1.50	8.58	9.66	1.80	22.26
250	12.24	11.70	1.65	11.60	12.01	1.93	22.31
300	13.84	12.71	1.72	13.05	13.35	2.08	22.34
400	16.54	15.85	2.08	16.21	16.36	2.49	22.39
500	18.70	18.45	2.41	18.41	18.60	2.85	22.34
600	19.92	19.67	2.70	19.74	19.63	3.18	22.46
700	21.43	21.14	2.92	21.37	21.20	3.53	22.44
800	22.50	22.88	3.35	22.53	22.73	3.89	22.06
900	22.36	22.66	3.53	23.34	22.95	4.32	21.81
1000	24.74	24.69	3.81	25.66	24.40	4.42	21.12
1100	24.29	24.47	4.04	24.77	24.71		21.32
1200	25.41	25.82	4.77	25.49	25.46		21.30
1300	28.33	28.45	4.90	28.12	28.11		21.01
1400	26.16	26.59	7.80	28.07	27.15		
1500	29.20	29.24	6.63	29.21	28.69		
1600	27.44	27.79	5.53	28.59	28.24		
1700	31.27	30.79	5.48	29.31	28.76		
1800	32.61	31.49	5.64	31.25	31.19		
1900	33.54	32.74	6.22	34.18	32.01		
2000	32.01	32.34	5.74	32.71	32.21		

21. TEST RESULT SUMMARY

Preliminary Radiated Emission Tests were performed at the 10 meter open area test site. CCS test procedure no:CCSUE2001B and the procedure listed in ANSI C63.4 /1992 section 8.3.1.1. were used. The following preliminary tests were conducted to determine the worst mode of operation and configuration.

Preliminary Radiated Emission Test						
Frequency Range Investi	30 MHz TO 10	00 MHz				
Mode of operation Date		Data Report No.	Worst Mode			
NORMAL MODE	8/27/98	980827D8				

Final Radiated Emission Test was conducted by operating the worst mode as indicated above.

OATS D / 1	No: 0 M	Data Report No. 980827D8		Date 8/27/98		Tested By: MORRIS HUANG	
	Six Highest Radiated Emission Readings						
Frequenc	cy Range	Investi	gated	30	MHz TO	1000 MHz	
Freq (MHz)	Meter Reading (dBm)	C.F. (dB/m)	Corrected Reading (dBuV)	Limits (dBuV)	Margin (dB)	Reading Type P/O/A	Pol. H/V
48.00	-68.2	-12.5	26.3	30	-3.7	P	v
147.45	-69.6	-9.5	27.9	30	-2.1	P	v
168.03	-69.1	-10.9	27.0	30	-3.0	P	V
172.02	-70.2	-11.2	25.6	30	-4.4	P	v
147.45	-69.6	-10.0	27.4	30	-2.6	P	Н
216.02	-70.7	-10.9	25.4	30	-4.6	P	Н

C.F.(Correction Factor) = Antenna Factor + Cable Loss - Amplifier Gain Corrected Reading = Metering Reading + C.F.

Margin=Corrected Reading - Limits

P=Peak Reading H=Horizontal Polarization/Antenna Q=Quasi-peak V=Vertical Polarization/Antenna

A=Average Reading

Comments: N/A

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Preliminary Conducted Emission Tests were performed according to CCS test procedure no:CCSUE2002B and ANSI C63.4/1992 section 7.2.3. The following preliminary tests were conducted to determine the worst mode of operation.

Preliminary Conducted Emission Test						
Frequency Range Invest	igated	150 kHz TO 30 M	Hz			
Mode of operation	Date	Data Report/Plot No.	Worst Mode			
NORMAL MODE	8/27/98	7585E(#13, #23) / N/A				

Final Conducted Emission Test was conducted by operating the worst mode as indicated above.

Conduct	ed	Plot No		Dat	- 1	Tested	Ву:	
Room			N/2	A	8/27,	/98	MORRIS	HUANG
	Six Highest Conduc					on Readii	ngs	
Frequen	су Е	Range	Invest.	igated		150 kHz J	70 30 MHz	
	Me	eter		Corrected			Reading	
Freq	Rea	ding	C.F.	Reading	Limits	Margin	Type	Line
(MHz)	(d	BuV)	(dB)	(dBuV)	(dBuV)	(dB)	(P/Q/A)	(L1/L2)
0.162	5:	1.25	0	51.25	65.34	-14.09	P	L1
0.207	4	7.45	0	47.45	63.32	-15.87	P	Ll
0.253	44	1.31	0	44.31	61.64	-17.33	P	L1
13.623	44	1.93	0	44.93	60.00	-15.07	P	L1
16.055	4:	L.58	0	41.58	60.00	-18.42	P	L1
16.055	4:	L.72	0	41.72	60.00	-18.28	P	L2

C.F.(Correction Factor) = Insertion Loss + Cable Loss

Corrected Reading = Metering Reading + C.F.

A=Average Reading

Comments: N/A

DATE:SEPTEMBER 2, 1998

FCC ID:LWHA311H3

APPENDICES

EXTERNAL I/O CABLE CONSTRUCTION DESCRIPTION

CONFIGURATION BLOCK DIAGRAM

CONDUCTED EMISSION PLOT

RADIATED EMISSION DATA

EUT PHOTOGRAPHS

REPORT NO:98E7585 DATE:SEPTEMBER 2, 1998 FCC ID:LWHA311H3 EUT: SOUND CARD

External I/O Cable Construction Description

CABLE NO: 1	Number of I/O ports of this type: 1
I/O Port: MIDI/JOYSTICK	Connector Type: DB15
Capture Type: Snap-In	Type of Cable used: Un-Shielded
Cable Connector Type: Molded	Cable Length: 1.8 M
Bundled During Tests: No	Data Traffic Generated: Yes
Remarks: N/A	

CABLE NO: 2, 4, 5	Number of I/O ports of this type: 3
I/O Port: AUDIO OUT, MIC IN, LINE IN	Connector Type: Phone Jack
Capture Type: Snap-In	Type of Cable used: Un-Shielded
Cable Connector Type: Molded	Cable Length: 0.95 M, 2.9 M, 1.8 M
Bundled During Tests: No, Yes, No	Data Traffic Generated: Yes
Remarks: N/A	

CABLE NO: 3	Number of I/O ports of this type: 1
I/O Port: KB	Connector Type: DIN-5 Pin
Capture Type: Snap-In	Type of Cable used: Shielded
Cable Connector Type: Molded	Cable Length: 1.0 M
Bundled During Tests: No	Data Traffic Generated: Yes
Remarks: N/A	

CABLE NO: 6	Number of I/O ports of this type: 1
I/O Port: Parallel	Connector Type: DB25
Capture Type: Screw-In	Type of Cable used: Shielded
Cable Connector Type: Molded	Cable Length: 1.7 M
Bundled During Tests: Yes	Data Traffic Generated: Yes
Remarks: N/A	

CABLE NO: 7	Number of I/O ports of this type: 1
I/O Port: Serial Mouse	Connector Type: DB9
Capture Type: Screw-In	Type of Cable used: Un-Shielded
Cable Connector Type: Molded	Cable Length: 1.9 M
Bundled During Tests: No	Data Traffic Generated: Yes
Remarks: N/A	

REPORT NO:98E7585 DATE:SEPTEMBER 2, 1998 EUT:SOUND CARD FCC ID:LWHA311H3

CABLE NO: 8	Number of I/O ports of this type: 1
I/O Port: VGA	Connector Type: DB15
Capture Type: Screw-In	Type of Cable used: Shielded
Cable Connector Type: Molded	Cable Length: 1.0 M
Bundled During Tests: No	Data Traffic Generated: Yes
Remarks: N/A	

Remarks: N/A	
No (Radiation), Yes (Line Conduction)	
Bundled During Tests:	Data Traffic Generated: No
Cable Connector Type: Molded	Cable Length: 1.8 M
Capture Type: Snap-In	Type of Cable used: Un-Shielded
I/O Port: Power Cord	Connector Type: AC Inlet
CABLE NO: 9~11	Number of I/O ports of this type: 3

Compliance Engineering Services, Inc.

Report No. : 980827D8

Date : 08/27/1998

Time : 21:33

>> 10 M RADIATED EMISSION DATA << Test Engr : MORRIS HUANG

Mons

Company: LABWAY CORPORATION

Equipment Under Test: A311H3

Test Configuration: EUT/MONITOR/PRN01/PLY02/ME02/SPX04/MIC01/KB10

JOY05

Type of Test : EN55022 CLASS B

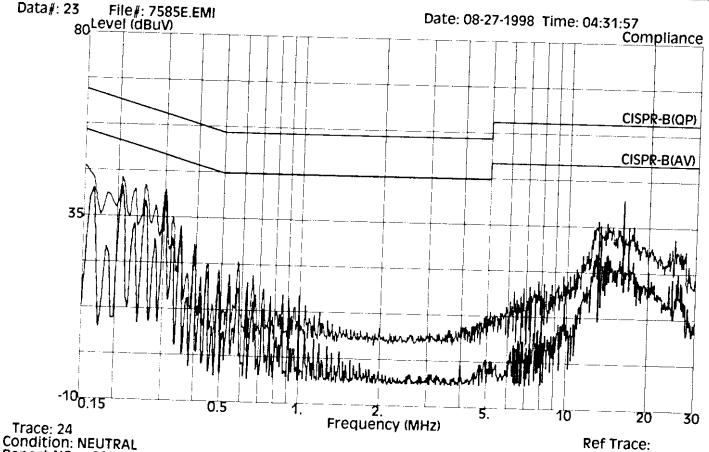
Mode of Operation : NORMAL MODE

Freq.	dBm	CF(dB)	dBu√	EN55022-A	EN55022-B	EUT-A	EUT-B	Note
48.00	-68.2	-12.5	26.3	40.0	30.0	-13.7	-3.7	Vertical
122.88	-74.1	-9.4	23.5	40.0	30.0	-16.5	-6.5	Vertical
147.45	-69.6	-9.5	27.9	40.0	30.0	-12.1	-2.1	Vertical
168.03	-69.1	-10.9	27.0	40.0	30.0	-13.0	-3.0	Vertical
172.02	-70.2	-11.2	25.6	40.0	30.0	-14.4	-4.4	Vertical
196.61	-72.1	-10.9	24.0	40.0	30.0	-16.0	-6.0	Vertical
215.05	-72.6	-10.1	24.3	40.0	30.0	-15.7	-5.7	Vertical
219.99	-71.9	-9.8	25.3	40.0	30.0	-14.7	-4.7	Vertical
258.02	-67.4	-9.1	31.5	47.0	37.0	-15.5	-5.5	Vertical
270.32	-69.5	-7.8	29.7	47.0	37.0	-17.3	-7.3	Vertical
294.88	-70.4	-7.1	29.5	47.0	37.0	-17.5	-7.5	Vertical
319.47	-70.3	-6.3	30.4	47.0	37.0	-16.6	-6.6	Vertical
49.16	-71.8	-12.5	22.7	40.0	30.0	-17.3	-7.3	Horizontal
122.89	-73.7	-9.5	23.8	40.0	30.0	-16.2	-6.2	Horizontal
147.45	-69.6	-10.0	27.4	40.0	30.0	-12.6	-2.6	Horizontal
199.91	-71.7	-11.9	23.4	40.0	30.0	-16.6	-6.6	Horizontal
216.02	-70.7	-10.9	25.4	40.0	30.0	-14.6	-4.6	Horizontal
294.90	-70.1	-7.4	29.5	47.0	37.0	-17 .5	-7.5	Horizontal

tal # of data 18

.0.a





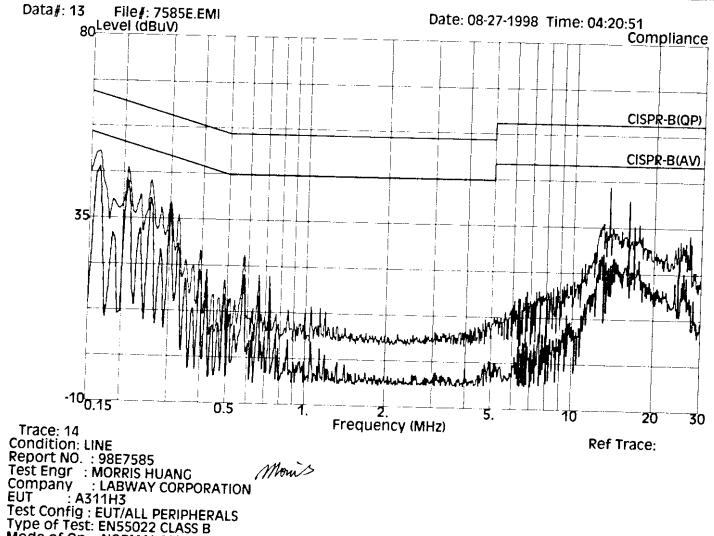
Mours

Report NO. : 98E7585

Test Engr : MORRIS HUANG Company : LABWAY CORPORATION EUT : A311H3

Test Config : EUT/ALL PERIPHERALS
Type of Test: EN55022 CLASS B
Mode of Op. : NORMAL MODE
Comment : PEAK(GREEN), AVERAGE(BLACK)





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