



document property name.

ELECTROMAGNETIC EMISSION COMPLIANCE REPORT

Test report file number : E011R-044

Applicant : KOREA DATA SYSTEMS CO., LTD.
Address : 170, Gongdan-Dong, Gumi-Si, Gyungbuk, 730-030, Korea

Manufacturer : KOREA DATA SYSTEMS CO., LTD.
Address : 170, Gongdan-Dong, Gumi-Si, Gyungbuk, 730-030, Korea

Type of Equipment : PERSONAL COMPUTER

FCC ID : EVOKDT-3861

Model / Type No. : KDT-XXXX

Serial number : N/A

Total page of Report : 22pages (including this page)

Date of Incoming : January 17, 2001

Date of issuing : February 3, 2001

SUMMARY

The equipment complies with the regulation; FCC PART 15 CFR 47 SUBPART B Section 15.101.

This test report contains only the result of a single test of the sample supplied for the examination. It is not a general valid assessment of the features of the respective products of the mass-production.

Prepared by: _____

Y. K. Nam / Asst. Chief Engineer

Reviewed by: _____

S. S. Hong / Managing Director

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EMC Dept.
ONETECH Corp.

EMC Dept.
ONETECH Corp.

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1. VERIFICATION OF COMPLIANCE

APPLICANT : KOREA DATA SYSTEMS CO., LTD.
 ADDRESS : 170, Gongdan-Dong, Gumi-Si, Gyungbuk, 730-030, Korea
 CONTACT PERSON : Sung-Taek, Roh / R&D Planning Team
 TELEPHONE NO : 82-54-468-3239
 FCC ID : EVOKDT-3861
 MODEL NO/NAME : KDT-XXXX
 SERIAL NUMBER : N/A
 DATE : February 3, 2001

DEVICE TYPE	Class B Personal Computers - Unintentional Radiator
E.U.T. DESCRIPTION	PERSONAL COMPUTER
THIS REPORT CONCERNS	ORIGINAL GRANT
MEASUREMENT PROCEDURES	ANSI C63.4/1992
TYPE OF EQUIPMENT TESTED	PRE-PRODUCTION
KIND OF EQUIPMENT AUTHORIZATION REQUESTED	CERTIFICATION
EQUIPMENT WILL BE OPERATED UNDER FCC RULES PART(S)	FCC PART 15 SECTION 15.101
MODIFICATIONS ON THE EQUIPMENT TO ACHIEVE COMPLIANCE	No
FINAL TEST WAS CONDUCTED ON	3 METER OPEN AREA TEST SITE

The above equipment was tested by ONETECH Corp. for compliance with the requirement set forth in the FCC Rules and Regulations. This said equipment in the configuration described in this report, shows the maximum emission levels emanating from equipment are within the compliance requirements.

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2. GENERAL INFORMATION

2.1 Product Description

The KOREA DATA SYSTEMS CO., LTD., Model KDT-XXXX (referred to as the EUT in this report) is a PERSONAL COMPUTER which is a powerful, versatile and high performance system that offers exceptional speed and convenience in a compact design. Product specification information described herein was obtained from product data sheet or user's manual.

CHASSIS TYPE	METAL
LIST OF EACH OSC. OR CRY. FREQ.(FREQ.>=1MHz)	14.318 MHz on the mainboard, 25.0 MHz on the LAN card
POWER REQUIREMENTS	AC 110 ~ 120V,4A / AC 200V ~ 220V, 2A / 50,60Hz / Max 150W
NUMBER OF LAYERS	Mainboard : 6 Layers, Modem card: 2 Layers, Lan card : 2 Layers
EXTERNAL CONNECTOR	VGA port(15pin), Parallel port(25pin), Com port(9pin), Game port(15pin) USB 2 ports, Sound (audio, line, mic) ports, Modem(phone, line) ports, LAN port, Mouse port, Keyboard port.
USED CPU SPECIFICATION	Pentium III 866, Pentium III 733, Pentium III 700, Celeron 600

Model Differences: -. The following list consists of added model name and their difference. The basic and added models are identical except for the CPU Speed and buyer model name.

	Model Name	Buyer Model Name	Model Differences
Basic Model	KDT-XXXX	IGPC-866	CPU : Pentium III 866
Added Model	KDT-2731	IGPC-733	CPU : Pentium III 733
	KDT-2701	IGPC-700	CPU : Pentium III 700
	KDT-1601	IGPC-600	CPU : Celeron 600

2.2 Related Submittal(s) / Grant(s)

Original submittal only.

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2.3 Test System Details

The model numbers for all the equipments which were used in the tested system is:

Model	Manufacturer	FCC ID	Description	Connected to
KDT-XXXX	KOREA DATA SYSTEMS CO., LTD.	EVOKDT-3861	PERSONAL COMPUTER (EUT)	-
AV-5T	KDS	EVOKD-1510T	MONITOR	EUT
T-300 JP	N/A	DOC	KEYBOARD	EUT
FSUGMZFT	SAMSUNG	DOC	MOUSE	EUT
HD610S	HYUNDAI	N/A	TELEPHONE	EUT
QS-124	QUICKSHOT	N/A	JOYSTICK	EUT
TGX-2000	SAMBO COMPUTER	N/A	SPEAKER	EUT
OK-2000	OKSORI	N/A	MIC	EUT
020-0470	CARDINAL	GDE0196	EXTERNAL MODEM	EUT
5530	BTC	DOC	USB KEYBOARD	EUT
2225C	HP	DSI6XU2225	PRINTER	EUT

2.4 Test Methodology

Both conducted and radiated testing was performed according to the procedures in ANSI C63.4/1992. Radiated testing was performed at a distance of 3 meters from EUT to the antenna.

2.5 Test Facility

The open area test site and conducted measurement facilities are located on at 426-1 Daessangryung-Ri, Chowol-Myun, Kwangju-Kun, Kyunggi-Do 464-080 Korea. Description details of test facilities were submitted to the Commission on January 12, 1999. (Registration Number: 92819)

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3. SYSTEM TEST CONFIGURATION

3.1 Justification

This device was configured for testing in a typical way as a normal customer is supposed to be used. During the test, the following components were installed inside of the EUT.

DEVICE TYPE	MANUFACTURER	MODEL/PART NUMBER	FCC ID
MAIN BOARD	GIGABYTE	GA-6WMMC7	DOC
HDD	SAMSUNG ELEC	SV1022D/TGC	N/A
FDD (3.5")	SAMSUNG ELEC	SFD-321B/LJBT	N/A
DVD ROM	RICOH	MP9060A	BBP9060A
RAM (128 MB)	SAMSUNG ELEC	PC100-322-620	N/A
MODEM CARD	SAE ROM TECH	M-PCI-56-ACL	DOC
LAN CARD	N/A	243127-421	DOC
SMPS	FONG KAI IND	ATS150	DOC

3.2 EUT exercise Software

The windows program used during radiated and conducted testing was designed to exercise the various system components in a manner similar to a typical use. This program was included into HOST. Once loaded, this program sequentially exercises each system component in turn. The sequence used is: (1) series of H characters are printed on the monitor until the screen is completely full, (2) copy series of H characters to mass storage device (if one is used), (3) print series of H characters to printer, (4) playing music and movie file using DVD ROM. The complete cycle is repeated continuously.

3.3 Cable Description

	Power Cord Shielded (Y/N)	I/O cable Shielded (Y/N)	Length (M)
PERSONAL COMPUTER(EUT)	N	-	1.5(P)
MONITOR	N	Y	1.5(P), 1.2(D)
KEYBOARD	N/A	Y	1.8(D)
MOUSE	N/A	Y	1.8(D)
TELEPHONE	N/A	N	1.2(D)
JOYSTICK	N/A	Y	1.8(D)
SPEAKER	N/A	N	1.8(D)
MIC	N/A	N	2.0(D)
EXTERNAL MODEM	N	Y	1.5(P), 1.2(D)
USB KEYBOARD	N/A	Y	1.8(D)

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PRINTER	N	Y	1.5(P), 1.2 (D)
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* The marked "(P)" means the Power Cable, "(D)" means the Data Cable.

document property name.

3.4 Noise Suppression Parts on Cable

	Ferrite Bead (Y/N)	Location	Metal Hood (Y/N)	Location
PERSONAL COMPUTER(EUT)	-	-	-	-
MONITOR	Y	EUT END	Y	EUT END
KEYBOARD	N	N/A	Y	EUT END
MOUSE	N	N/A	Y	EUT END
TELEPHONE	N	N/A	N	N/A
JOYSTICK	N	N/A	Y	EUT END
SPEAKER	N	N/A	Y	EUT END
MIC	N	N/A	Y	EUT END
EXTERNAL MODEM	N	N/A	Y	BOTH END
USB KEYBOARD	N	N/A	Y	EUT END
PRINTER	N	N/A	Y	BOTH END

3.5 Equipment Modifications

None

3.6 Configuration of Test System

Line Conducted Test: The power line of EUT was connected to LISN, all supporting equipment were connected to another LISN. Preliminary Power line Conducted Emission test was performed by using the procedure in ANSI C63.4/1992 7.2.3 to determine the worse operating conditions.

Radiated Emission Test: Preliminary radiated emission test was conducted using the procedure in ANSI C63.4/1992 8.3.1.1 to determine the worse operating conditions. Final radiated emission test was conducted at 3 meters open area test site.

document property name.

4. PRELIMINARY TEST

4.1 Conducted Emission Test

During Preliminary Test, the following operating mode was investigated.

Operation Mode	The Worse operating condition (Please check one only)
“H” pattern scrolling, read and write of HDD, playing music and movie file	X

4.2 Radiated Emission Test

During Preliminary Test, the following operating mode was investigated.

Operation Mode	The Worse operating condition (Please check one only)
“H” pattern scrolling, read and write of HDD, playing music and movie file	X

document property name.

Measuring by: Young Min, Choi / Project Engineer

document property name.

Conducted Emission Test : continued

Result : PASSED BY -2.37 dB at 0.50 MHz

EUT : PERSONAL COMPUTER

Date : January 27, 2001

Operating Condition : "H" pattern scrolling, read and write of HDD, playing music and movie file

Detector : CISPR Quasi-Peak (6 dB Bandwidth: 9 kHz)

Remark : Installed CPU Pentium III 733 on the mainboard

Power Line Conducted Emission			FCC CLASS B	
Frequency (MHz)	Amplitude (dBuV)	Conductor	Limit (dBuV)	Margin (dB)
0.50	45.63	NEUTRAL	48.00	-2.37
0.72	43.10	NEUTRAL	48.00	-4.90
0.89	42.25	HOT	48.00	-5.75
1.11	41.55	NEUTRAL	48.00	-6.45
10.76	41.34	HOT	48.00	-6.66
11.99	43.46	NEUTRAL	48.00	-4.54
12.49	43.77	NEUTRAL	48.00	-4.23
26.41	37.47	HOT	48.00	-10.53

Line Conducted Emission Tabulated Data



document property name.

Measuring by: Young-Min, Choi / Project Engineer

document property name.

Conducted Emission Test : continued

Result : PASSED BY -4.04 dB at 0.50 MHz

EUT : PERSONAL COMPUTER

Date : January 27, 2001

Operating Condition : "H" pattern scrolling, read and write of HDD, playing music and movie file

Detector : CISPR Quasi-Peak (6 dB Bandwidth: 9 kHz)

Remark : Installed CPU Pentium III 700 on the mainboard

Power Line Conducted Emission			FCC CLASS B	
Frequency (MHz)	Amplitude (dBuV)	Conductor	Limit (dBuV)	Margin (dB)
0.50	43.96	HOT	48.00	-4.04
0.67	41.78	HOT	48.00	-6.22
0.89	40.51	HOT	48.00	-7.49
1.06	39.93	HOT	48.00	-8.07
6.91	39.94	HOT	48.00	-8.06
8.00	36.32	NEUTRAL	48.00	-11.68
11.64	42.58	HOT	48.00	-5.42
12.10	38.91	NEUTRAL	48.00	-9.09

Line Conducted Emission Tabulated Data



document property name.

Measuring by: Young-Min, Choi / Project Engineer

document property name.

Conducted Emission Test : continued

 Result : PASSED BY -3.77 dB at 0.50 MHz

EUT : PERSONAL COMPUTER

Date : January 27, 2001

Operating Condition : "H" pattern scrolling, read and write of HDD, playing music and movie file

Detector : CISPR Quasi-Peak (6 dB Bandwidth: 9 kHz)

Remark : Installed CPU Celeron 600 on the mainboard

Power Line Conducted Emission			FCC CLASS B	
Frequency (MHz)	Amplitude (dBuV)	Conductor	Limit (dBuV)	Margin (dB)
0.50	44.23	NEUTRAL	48.00	-3.77
0.67	43.35	HOT	48.00	-4.65
0.72	39.20	NEUTRAL	48.00	-8.80
0.89	40.14	NEUTRAL	48.00	-7.86
4.63	37.34	HOT	48.00	-10.66
11.89	41.19	NEUTRAL	48.00	-6.81
12.17	41.48	NEUTRAL	48.00	-6.52
26.36	34.29	HOT	48.00	-13.71

Line Conducted Emission Tabulated Data



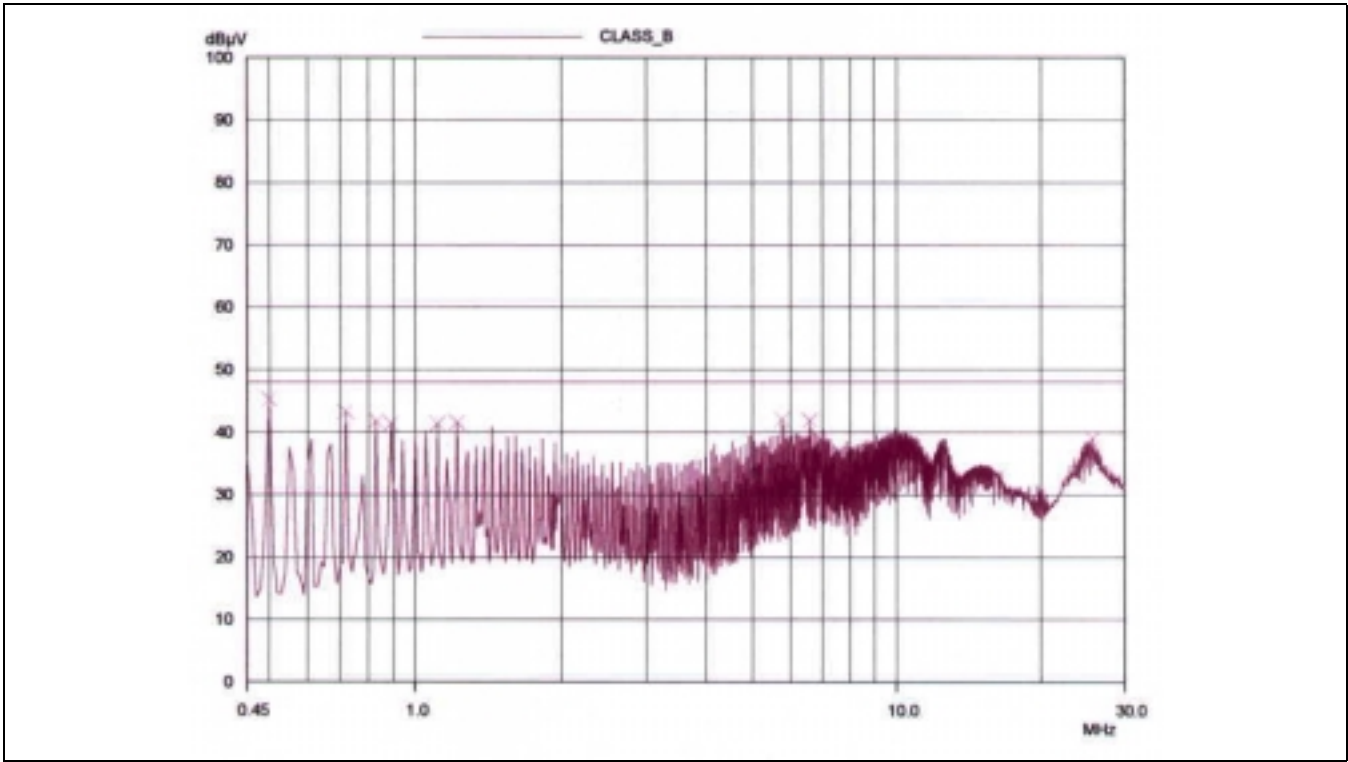
document property name.

Measuring by: Young-Min, Choi / Project Engineer

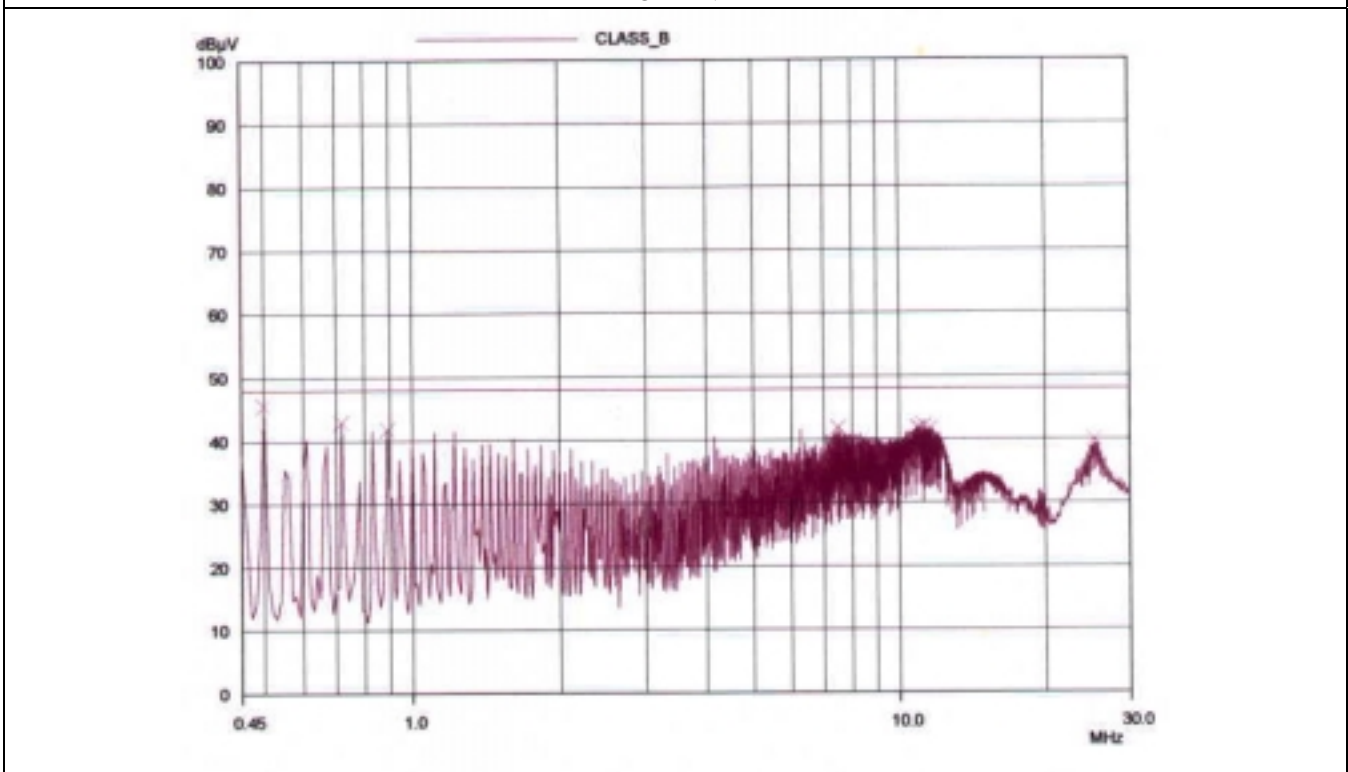


document property name.

Remark : Installed CPU Pentium III 866



HOT LINE



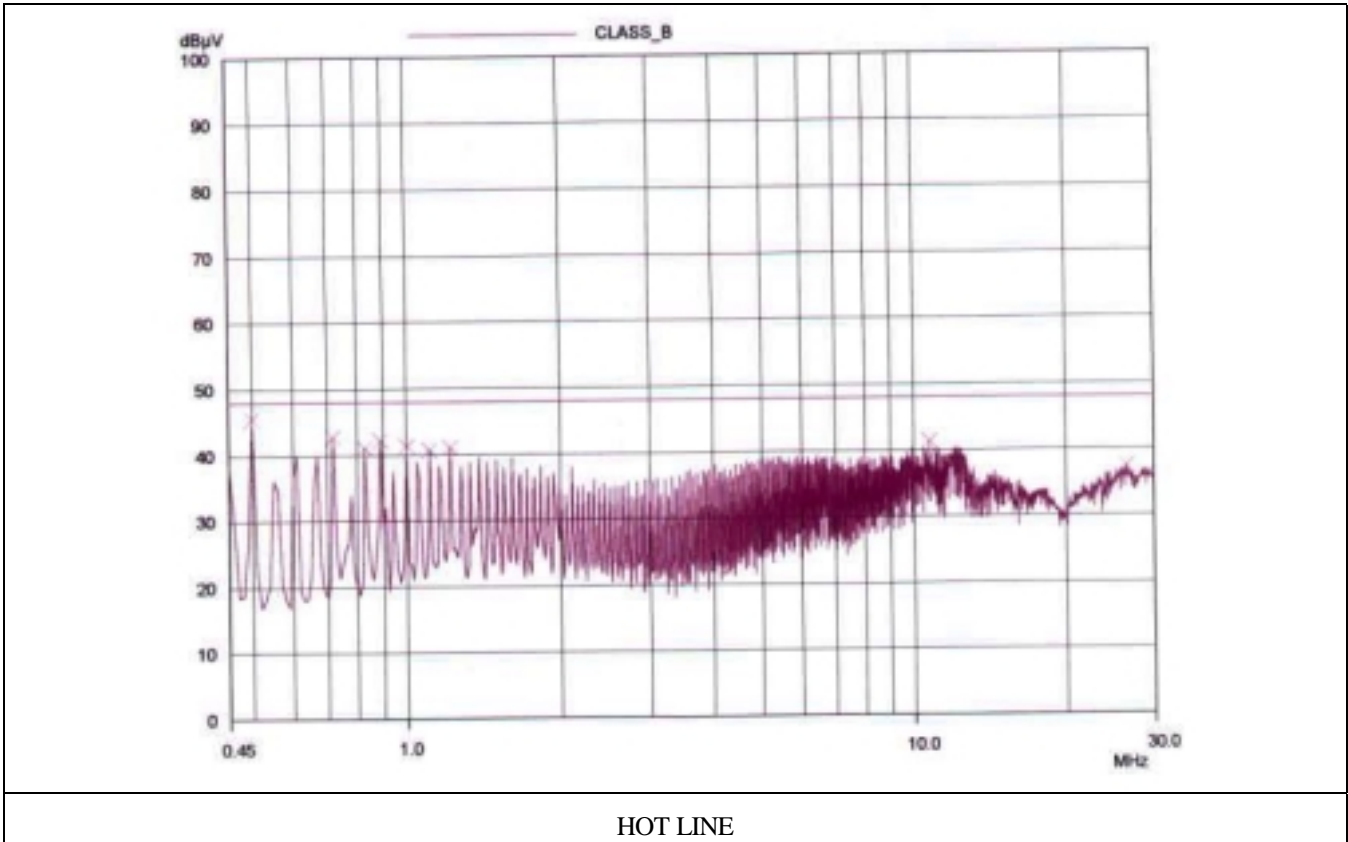


document property name.

NEUTRAL LINE

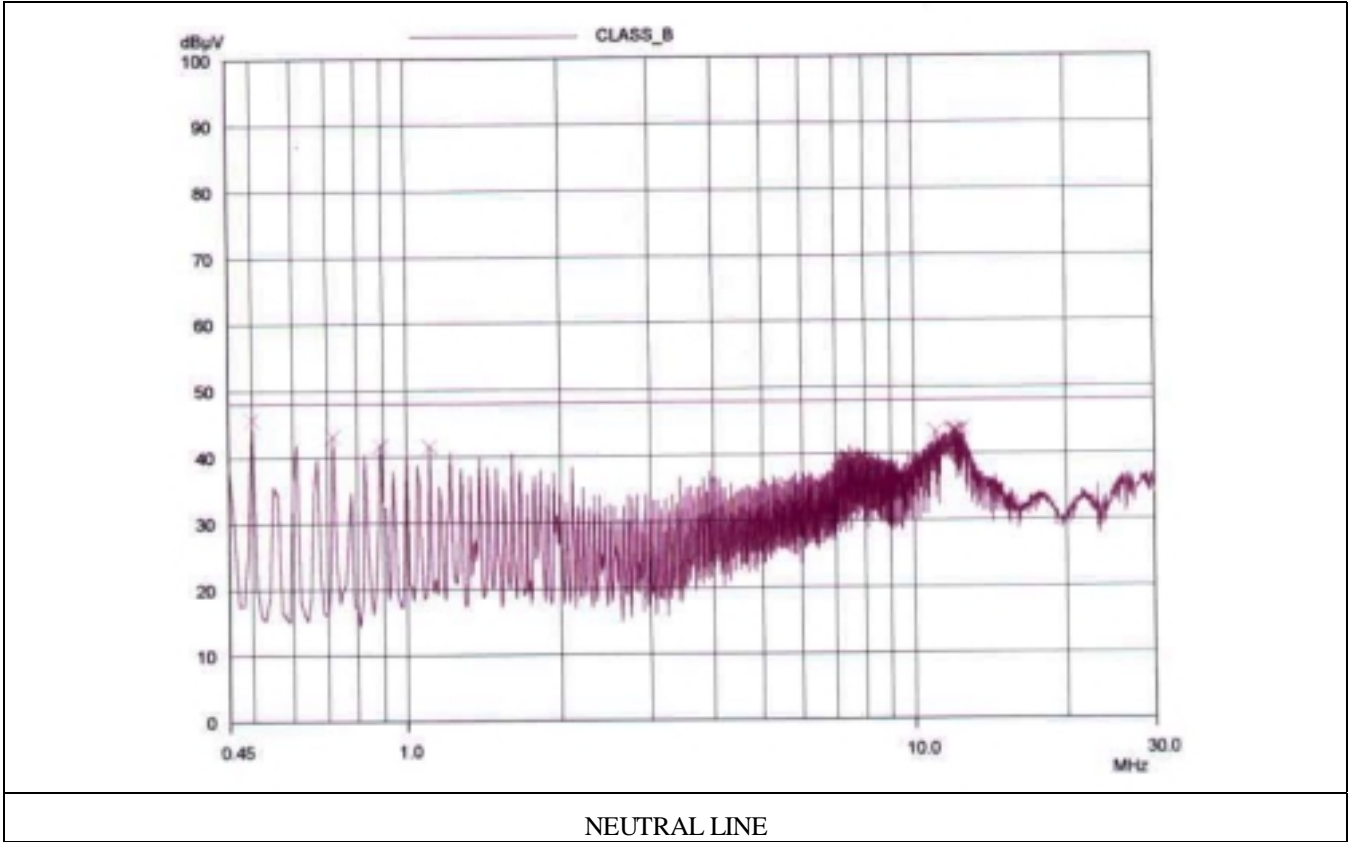
document property name.

Remark : Installed CPU Pentium III 733



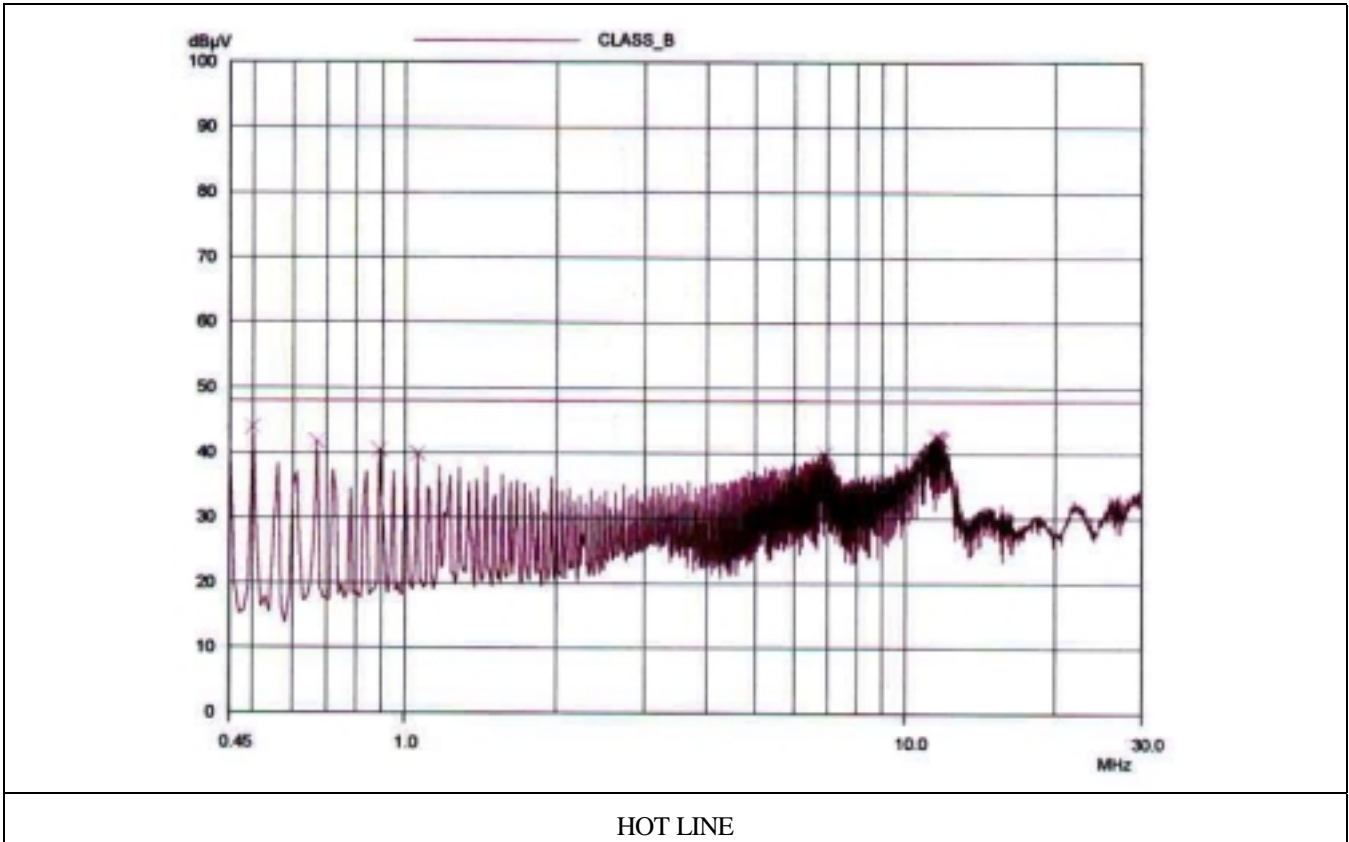
HOT LINE

document property name.



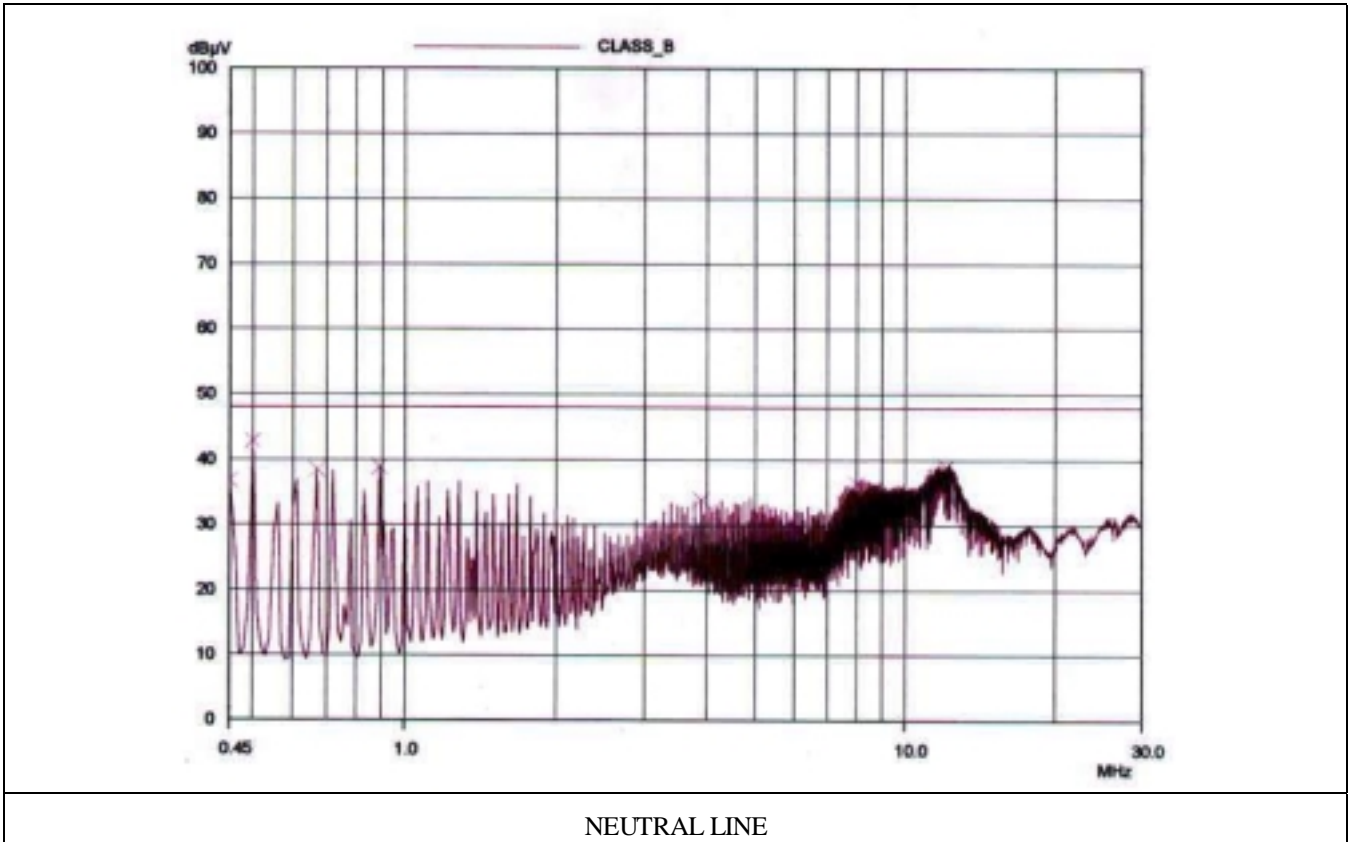
document property name.

Remark : Installed CPU Pentium III 700



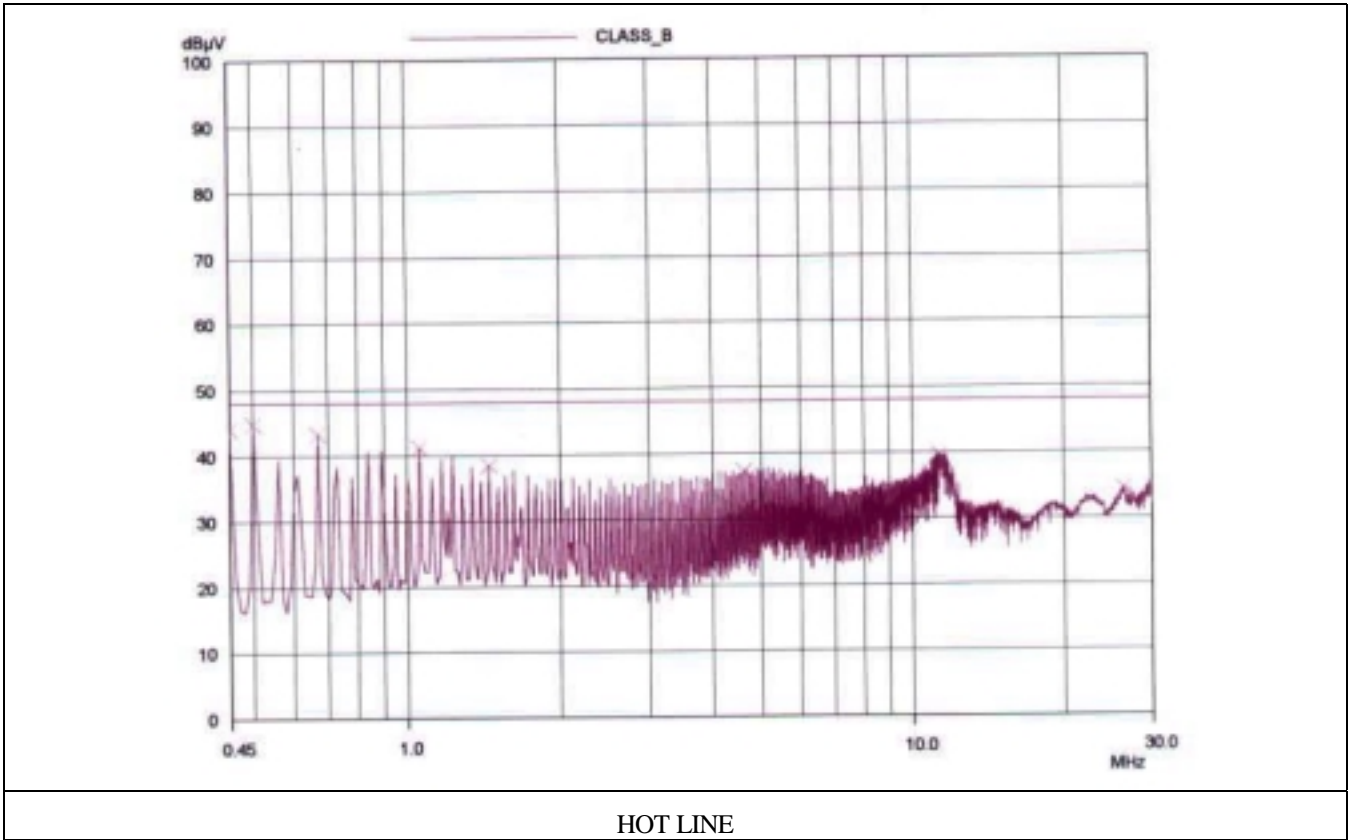
HOT LINE

document property name.



document property name.

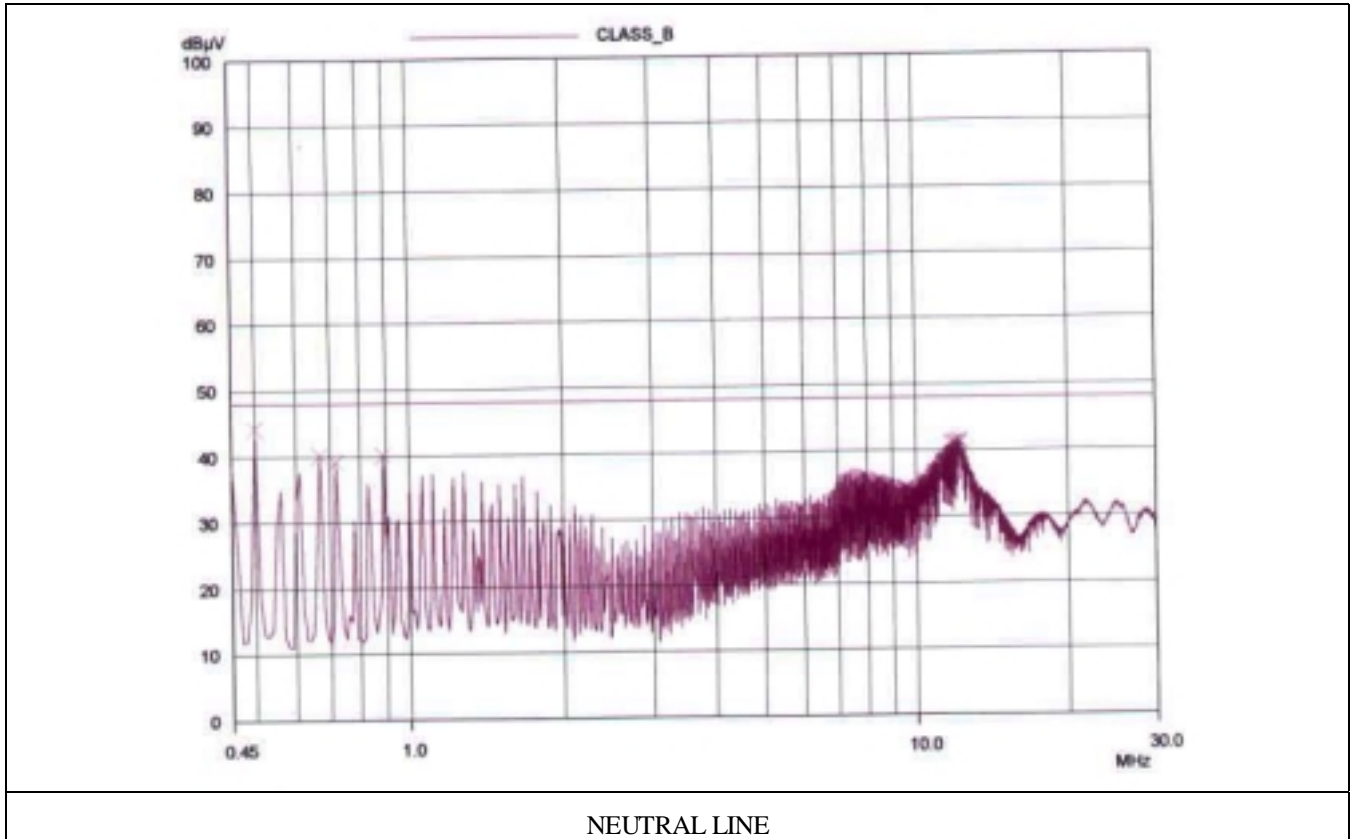
Remark : Installed CPU Celeron 600



HOT LINE



document property name.



NEUTRAL LINE

document property name.

Measuring by: Young Min, Choi / Project Engineer



document property name.

Radiated Emission Test : continued

Result : PASSED BY -2.77 dB at 301.60 MHz

EUT : PERSONAL COMPUTER

Date : January 29, 2001

Operating Condition : "H" pattern scrolling, read and write of HDD, playing music and movie file

Detector : CISPR Quasi-Peak (6 dB Bandwidth: 120 kHz)

Distance : 3 Meter

Remark : Installed CPU Pentium III 733 on the mainboard

Radiated Emission		Ant	Correction Factors		Total	FCC CLASS B	
Freq. (MHz)	Amp. (dBuV)	Pol.	Ant. (dBuV/m)	Cable (dB)	Amp. (dBuV/m)	Limit (dBuV/m)	Margin (dB)
48.00	24.40	V	11.25	0.91	36.56	40.00	-3.44
54.79	21.20	V	10.81	0.98	32.99	40.00	-7.01
66.68	26.04	V	8.15	1.00	35.19	40.00	-4.81
73.75	25.70	V	6.55	1.00	33.25	40.00	-6.75
80.50	24.57	H	6.43	1.01	32.01	40.00	-7.99
86.05	23.20	H	7.54	1.10	31.84	40.00	-8.16
110.44	25.41	H	12.63	1.20	39.24	43.50	-4.26
122.84	20.50	H	13.24	1.24	34.98	43.50	-8.52
147.53	23.00	H	13.22	1.34	37.56	43.50	-5.94
159.91	22.20	V	14.13	1.38	37.71	43.50	-5.79
184.31	17.30	H	16.22	1.48	35.00	43.50	-8.50
200.60	21.40	H	11.54	1.57	34.51	43.50	-8.99
234.20	24.20	H	12.10	1.75	38.05	46.00	-7.95
301.60	26.00	H	15.22	2.01	43.23	46.00	-2.77
469.00	18.40	V	17.45	2.59	38.44	46.00	-7.56
500.00	18.50	V	18.29	2.68	39.47	46.00	-6.53
703.50	16.80	H	20.98	3.33	41.11	46.00	-4.89
905.10	13.90	V	22.54	3.96	40.40	46.00	-5.60
960~5000	*	-	-	-	-	54.00	-

Radiated Emission Tabulated Data

Remark: * means equal or less than 5dB.

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FCC-004 (Rev.0)

HEAD OFFICE : #505 SK APT. Factory 223-28, Sangdaewon 1 Dong, Jungwon-Gu, Seongnam-City, Kyunggi-Do, 462-121, Korea
(TEL: 82-31-746-8500 FAX: 82-31-746-8700)

EMC Testing Dept : 426-1 Daeanggyung-Ri ChongMyun Kwang-Kun Kyunggi-Do 464-860 Korea (TEL: 82-31-765-8289 FAX: 82-31-766-2904)

document property name.

Measuring by: Young Min, Choi / Project Engineer



document property name.

Radiated Emission Test : continued

Result : PASSED BY -2.40 dB at 699.20 MHz

EUT : PERSONAL COMPUTER

Date : January 29, 2001

Operating Condition : "H" pattern scrolling, read and write of HDD, playing music and movie file

Detector : CISPR Quasi-Peak (6 dB Bandwidth: 120 kHz)

Distance : 3 Meter

Remark : Installed CPU Pentium III 700 on the mainboard

Radiated Emission		Ant	Correction Factors		Total	FCC CLASS B	
Freq. (MHz)	Amp. (dBuV)	Pol.	Ant. (dBuV/m)	Cable (dB)	Amp. (dBuV/m)	Limit (dBuV/m)	Margin (dB)
48.00	21.00	V	11.25	0.91	33.16	40.00	-6.84
66.73	23.50	V	8.14	1.00	32.64	40.00	-7.36
80.50	23.40	V	6.43	1.01	30.84	40.00	-9.16
110.62	26.70	H	12.65	1.20	40.55	43.50	-2.95
122.87	19.80	H	13.24	1.24	34.28	43.50	-9.22
135.17	17.50	H	12.82	1.29	31.61	43.50	-11.89
138.09	17.20	H	12.72	1.30	31.22	43.50	-12.28
147.54	22.60	H	13.22	1.34	37.16	43.50	-6.34
159.87	20.50	H	14.13	1.38	36.01	43.50	-7.49
200.60	19.80	H	11.54	1.57	32.91	43.50	-10.59
234.20	24.90	H	12.10	1.75	38.75	46.00	-7.25
301.60	25.30	H	15.22	2.01	42.53	46.00	-3.47
358.60	15.50	H	15.30	2.32	33.12	46.00	-12.88
401.80	14.70	H	15.86	2.43	32.99	46.00	-13.01
431.80	20.20	V	16.53	2.50	39.23	46.00	-6.77
533.40	12.20	H	18.46	2.74	33.40	46.00	-12.60
699.20	19.30	V	20.99	3.31	43.60	46.00	-2.40
960~5000	*	-	-	-	-	54.00	-

Radiated Emission Tabulated Data

Remark: * means equal or less than 5dB.

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EMC Testing Dept : 426-1 Daeangryong-Ri Chowol-Myun Kwangju-Kun Kyunggi-Do 464-860 Korea (TEL: 82-31-765-8289 FAX: 82-31-766-2904)

document property name.

Measuring by: Young Min, Choi / Project Engineer



document property name.

Radiated Emission Test : continued

Result : PASSED BY -2.79 dB at 703.18 MHz

EUT : PERSONAL COMPUTER

Date : January 29, 2001

Operating Condition : "H" pattern scrolling, read and write of HDD, playing music and movie file

Detector : CISPR Quasi-Peak (6 dB Bandwidth: 120 kHz)

Distance : 3 Meter

Remark : Installed CPU Celeron 600 on the mainboard

Radiated Emission		Ant	Correction Factors		Total	FCC CLASS B	
Freq. (MHz)	Amp. (dBuV)	Pol.	Ant. (dBuV/m)	Cable (dB)	Amp. (dBuV/m)	Limit (dBuV/m)	Margin (dB)
48.00	22.50	V	11.25	0.91	34.66	40.00	-5.34
66.98	26.70	V	8.07	1.00	35.77	40.00	-4.23
72.01	24.60	V	6.90	1.00	32.50	40.00	-7.50
81.30	22.60	H	6.58	1.03	30.21	40.00	-9.79
110.40	23.40	H	12.63	1.20	37.23	43.50	-6.27
122.75	20.70	H	13.25	1.24	35.19	43.50	-8.31
135.10	24.70	V	12.83	1.29	38.82	43.50	-4.68
147.60	23.00	H	13.22	1.34	37.56	43.50	-5.94
159.90	18.70	H	14.13	1.38	34.21	43.50	-9.29
234.00	27.00	H	12.10	1.75	40.85	46.00	-5.15
301.50	20.60	H	15.22	2.01	37.83	46.00	-8.17
367.20	18.60	H	15.41	2.36	36.37	46.00	-9.63
431.80	22.20	V	16.53	2.50	41.23	46.00	-4.77
500.00	19.20	V	18.29	2.68	40.17	46.00	-5.83
536.00	16.00	V	18.48	2.75	37.23	46.00	-8.77
570.00	16.30	V	18.65	2.85	37.80	46.00	-8.20
703.18	18.90	H	20.98	3.33	43.21	46.00	-2.79
905.20	12.70	V	22.54	3.96	39.20	46.00	-6.80
960~5000	*	-	-	-	-	54.00	-

Radiated Emission Tabulated Data

Remark: * means equal or less than 5dB.

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EMC Testing Dept : 426-1 Daejeong-gu Ri Chowol Myun Kwangju-Kun Kyunggi-Do 464-860 Korea (TEL: 82-31-765-8289 FAX: 82-31-766-2904)

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document property name.

Measuring by: Young Min, Choi / Project Engineer

document property name.

6. FIELD STRENGTH CALCULATION

Meter readings are compared to the specification limit correcting for antenna and cable losses

	+ Meter reading	(dBuV)
	+ Cable Loss	(dB)
	+ Antenna Factor (Loss)	(dB/meter)
<hr/>		
	= Corrected Reading	(dBuV/meter)
	- Specification Limit	(dBuV/meter)
	= dB Relative to Spec	(+/- dB)



document property name.

document property name.

7. LIST OF TEST EQUIPMENT

No.	EQUIPMENTS	MFR.	MODEL	SER. NO.	LAST CAL	DUE CAL	USE
1.	Test receiver	R/S	ESVS 10	827864/005	SEP/00	12MONTH	■
2.	Test receiver	R/S	ESHS10	834467/007	APRIL/00	12MONTH	■
3.	Spectrum analyzer	HP	8568B	3026A0226	SEP/00	12MONTH	■
4.	RF preselector	HP	85685A	3107A01264	SEP/00	12MONTH	■
5.	Quasi-Peak Adapter	HP	85650A	3107A01542	SEP/00	12MONTH	■
6.	Dipole Antenna	EMCO	3121C	9107-745	JUN/00	12MONTH	
7.	Biconical antenna	EMCO	3104C	9109-4441 9109-4443 9109-4444	MAR/00	12MONTH	■
8.	Log Periodic antenna	EMCO	3146	9109-3213 9109-3214 9109-3217	MAR/00	12MONTH	■
9.	LISN	EMCO	3825/2	9109-1867 9109-1869	FEB/00	12MONTH	■
10.	RF Amplifier	HP	8447F	3113A04554	JUN/00	N/A	
11.	Spectrum Analyzer	HP	8591A	3131A02312	APR/00	12MONTH	
12.	Computer System	HP	98581C	98543A	N/A	N/A	■
	Hard disk drive		9153C	CMC762Z9153	N/A	N/A	■
13.	Plotter	HP	7475A	30052 22986	N/A	N/A	■
14.	Position Controller	EMCO	1090	9107-1038	N/A	N/A	■
15.	Turn Table	EMCO	1080-1.21	9109-1576	N/A	N/A	■
16.	Horn Antenna	EMCO	3115	9509-4563	MAR/00	12MONTH	■
17.	Spectrum Analyzer	HP	8561E	3350A00546	SEP/00	12MONTH	■
18.	Antenna Master	EMCO	1070-1	9109-1624	N/A	N/A	■