TEST REPORT FOR CERTIFICATION

On Behalf for

Philips Electronics Industries (Taiwan) Ltd.

Display Color Monitor

Model No.: (1)6739-K0E A (2)6739-K0N A (3)6739-K0S A
(4)6739-20E A (5)6739-20N A (6)6739-20S A
(7)6739-60E A (8)6739-60N A (9)6739-60S A

FCC ID. : A3KM114

Brand : IBM

Prepared for : Philips Electronics Industries (Taiwan) Ltd.
5, Tze Chiang 1 Road, Chungli Industrial Park
Chungli, Taoyuan, Taiwan, R.O.C.

Prepared By : Audix Corporation
Technical Division EMC Department
No. 53-11, Tin-Fu Tsun, Lin-Kou,
Taipei County, Taiwan, R.O.C.

Tel : (02) 2609-9301, 2609-2133
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File Number	:	EM931062
Report Number	:	EM-F930194
Date of Test	:	Sep. 01 ~ 15, 2004
Date of Report	:	Sep. 30, 2004

TABLE OF CONTENTS

TEST REPORT CERTIFICATION

Applicant	:	Philips Electronics Industries (Taiwan) Ltd.
Manufacturer	:	Philips Electronics Industries (Taiwan) Ltd.
Factory #1	:	Skyway (Dong Guan) Monitor Factory
Factory #2	:	Philips Consumer Electronics Co., of Suzhou Ltd.
Factory #3	:	Philips Ltd. Assembly Centre Hungary
EUT Description	:	Display Color Monitor
FCC ID.	:	A3KM114

(A) MODEL NO. : (1)6739-K0E A (2)6739-K0N A (3)6739-K0S A
(4)6739-20E A (5)6739-20N A (6)6739-20S A
(7)6739-60E A (8)6739-60N A (9)6739-60S A

(B) SERIAL NO. : (1) TY0404515 (For 6739-K0N A)
(2) TY0404520 (For 6739-K0N A)
(3) TY0404519 (For 6739-K0N A)

(C) BRAND : IBM

(D) POWER SUPPLY : AC 100V-240V~ , 60-50Hz, 1.8A
(Test Voltage: AC 120V/60Hz)

Measurement Procedure Used:

FCC CFR 47 Part 15 Subpart B/ Apr. 2004 and CISPR 22/1997
ANSI C63.4-2001

The device described above was tested by AUDIX Corporation to determine the maximum emission levels emanating from the device. The maximum emission levels were compared to the FCC Part 15 Subpart B with the provisions of section §15.107 (a) and §15.109 (a)(g) Class B limits both conducted and radiated emission.

The measurement results are contained in this test report and AUDIX Corporation is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliance with the FCC official limits.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of AUDIX Corporation.

Date of Test : Sep. 01 ~ 15, 2004

Prepared by : May Chen Oct. 01, 2004
(May Chen/Clerk)

Test Engineer : Allen Wang Oct. 01'04
(Allen Wang/Manager)

Approved & Authorized Signer : Leon Liu Oct. 1 2004
(Leon Liu/Senior Manager)

1. GENERAL INFORMATION

1.1. Description of Device

Description : Display Color Monitor

FCC ID : A3KM114

Model Number : (1)6739-K0E A (2)6739-K0N A (3)6739-K0S A
(4)6739-20E A (5)6739-20N A (6)6739-20S A
(7)6739-60E A (8)6739-60N A (9)6739-60S A

Above all models have the same PCB and circuit, the details of differences are follows as:

Model No.	Tube	Appearance	CRT
(1) 6739-K0E A	Equator	Silver Gray /Black	(1) Samsung (SDI), M/N M46QCK761X214 (2) Chunghwa (CPT), M/N M46AJS53X46 (3) LG Philips (LPD), M/N M46QEF903X21
(2) 6739-K0N A	**North Hemisphere**	**Silver Gray /Black**	
(3) 6739-K0S A	South Hemisphere	Silver Gray /Black	
(4) 6739-20E A	Equator	White	
(5) 6739-20N A	North Hemisphere	White	
(6) 6739-20S A	South Hemisphere	White	
(7) 6739-60E A	Equator	Black	
(8) 6739-60N A	North Hemisphere	Black	
(9) 6739-60S A	South Hemisphere	Black	

The Model (2) 6739-K0N A is representative selected in the test and included in this report.

Serial Number : (1) TY0404515 (For 6739-K0N A)
(2) TY0404520 (For 6739-K0N A)
(3) TY0404519 (For 6739-K0N A)

Brand : IBM

Applicant : Philips Electronics Industries (Taiwan) Ltd.
5, Tze Chiang 1 Road, Chungli Industrial Park
Chungli, Taoyuan, Taiwan, R.O.C.

Manufacturer : Philips Electronics Industries (Taiwan) Ltd.
5, Tze Chiang 1 Road, Chungli Industrial Park
P.O. Box 123, Chungli, Taoyuan, Taiwan, R.O.C

Factory #1 : Skyway (Dong Guan) Monitor Factory
Industrial Zone, Da Ling Shan Town, Dong Guan City, Guang Dong, China

Factory #2	:	Philips Consumer Electronics Co., of Suzhou Ltd. No. 161, Zhujiang Road, New District, Suzhou 215011, China
Factory #3	:	Philips Ltd. Assembly Centre Hungary Holland Fasor 6. PF 204, H-8002 Szekesfehervar, Hungary
Scanning Frequency	:	Horizontal : 30kHz-96kHz Vertical : 50Hz-160Hz
Max. Resolution	:	1600*1200/75Hz
CRT	:	(1) Samsung (SDI), M/N M46QCK761X214 (2)Chunghwa (CPT), M/N M46AJS53X46 (3) LG Philips (LPD), M/N M46QEF903X21
Data Cable (D-Sub)	:	Shielded, Undetachable, 1.8m Bonded two ferrite cores
Power Cord	:	Non-Shielded, Detachable, 1.8m (3 Pin)
Date of Receipt of Sample	:	Sep. 01 ~ 15, 2004
Date of Test	:	Sep. 30, 2004

1.2. Tested Supporting System Details

1.2.1. PC SYSTEM

Model Number	:	8305-52V
Serial Number	:	99BLVVB
FCC ID	:	By DoC
BSMI ID	:	R33026
Manufacturer	:	IBM
VGA Card	:	Intel, M/N 82845G
Power Cord	:	Non-Shielded, Detachable, 1.8m

1.2.2. KEYBOARD

Model Number	:	SK-8820
Serial Number	:	03923173
FCC ID	:	By DoC
BSMI ID	:	3912A521
Manufacturer	:	IBM
Data Cable	:	Non-Shielded, Undetachable, 2.0m

1.2.3. PRINTER

Model Number	:	KX-P2135
Serial Number	:	8DMCN02139
FCC ID	:	ACJ5Z6KX-P2135
BSMI ID	:	3872A371
Manufacturer	:	Matsushita (Brand: Panasonic)
Data Cable	:	Shielded, Detachable, 1.5m
Power Cord	:	Non-Shielded, Detachable, 1.8m

1.2.4. MODEM

Model Number	:	DM-1414
Serial Number	:	980034392
FCC ID	:	IFAXDM1414
Manufacturer	:	Aceex
Data Cable	:	Shielded, Detachable, 1.2m
Power Adapter	:	Amigo, Model AM-91000A Non-Shielded, Undetachable, 1.8m

1.2.5. PS2 MOUSE

Model Number	:	MU29J
Serial Number	:	23-256768
FCC ID	:	By DoC
BSMI ID	:	3902A581
Manufacturer	:	IBM
Data Cable	:	Non-Shielded, Undetachable, 1.8m

1.2.6. USB2.0 MICRO VAULT (USB STORAGE MEDIA)

Model Number	:	USM128U2
Serial Number	:	N/A
FCC ID	:	By DoC
BSMI ID	:	D33021
Manufacturer	:	SONY
Data Cable	:	Shielded, Detachable, 1.8m

1.2.7. MICROPHONE

Model Number	:	HD-303
Serial Number	:	N/A
Manufacturer	:	Multimedia Microphone System
Data Cable	:	Non-Shielded, Undetachable, 2.2m

1.2.8. WALKMAN

Model Number	:	RQ-P35LT-K
Serial Number	:	HA08474
Manufacturer	:	Panasonic
Data Cable	:	Non-Shielded, Detachable, 1.8m

1.2.9. SPEAKER

Model Number	:	J-008
Serial Number	:	J80547833
Manufacturer	:	(J-S) JAZZ HIPSTER
Data Cable	:	Non-Shielded, Undetachable, 1m

1.3. Description of Test Facility

Name of Firm	:	**Audix Corporation** Technical Division EMC Department No. 53-11, Tin-Fu Tsun, Lin-Kou Hsiang, Taipei County 24443, Taiwan, R.O.C.
Test Facility & Location (C3/R4)	:	**No. 3 Shielded Room** No. 67-4, Tin-Fu Tsun, Lin-Kou Hsiang, Taipei County 24443, Taiwan, R.O.C. **No. 4 Open Test Site** No. 67-4, Tin-Fu Tsun, Lin-Kou Hsiang, Taipei County 24443, Taiwan, R.O.C. Feb. 10, 2003 Re-File on Federal Communication Commission Registration Number: 90991
NVLAP Lab. Code	:	200077-0

(NVLAP is a NATA accredited body under Mutual Recognition Agreement)

DAR-Registration No.	:	DAT-P-145/03-01

1.4. Measurement Uncertainty

Test Item	Frequency Range	Uncertainty (dB)
Conduction Test	150kHz~30MHz	±1.73dB
Radiation Test (Distance: 3m)	30MHz~300MHz	±2.91dB
	300MHz~1000MHz	±2.94dB
Radiation Test (Distance: 10m)	30MHz~300MHz	±2.99dB
	300MHz~1000MHz	±2.73dB

Remark **:** Uncertainty = $ku_c(y)$

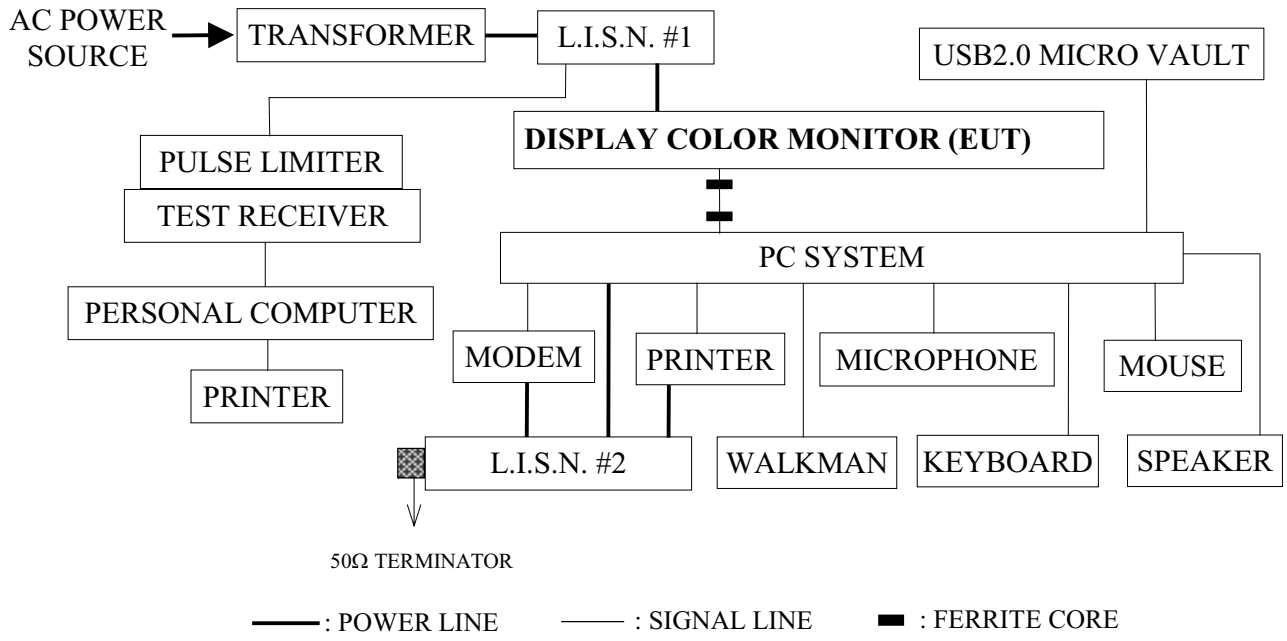
2. CONDUCTED EMISSION MEASUREMENT

2.1. Test Equipment

The following test equipment was used during the conducted emission measurement **:**

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Test Receiver	R & S	ESCS30	825442/020	Aug. 05, 04'	Aug. 05, 05'
2.	L.I.S.N. #1	Kyoritsu	KNW-407	8-1370-9	Jun. 05, 04'	Jun. 05, 05'
3.	L.I.S.N. #2	Kyoritsu	KNW-407	8-1370-10	Jun. 05, 04'	Jun. 05, 05'
4.	Pulse Limiter	R & S	ESH3Z2	100041	Apr. 28, 04'	Apr. 28, 05'

2.2. Block Diagram of Test Setup



2.3. Conducted Emission Limit (§15.107(a), Class B)

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level	Average Level
150kHz ~ 500kHz	66 ~ 56 dBμV	56 ~ 46 dBμV
500kHz ~ 5MHz	56 dBμV	46 dBμV
5MHz ~ 30MHz	60 dBμV	50 dBμV

Remark1.: If the average limit is met when using a Quasi-Peak detector, the EUT shall be deemed to meet both limits and measurement with the average detector is unnecessary.

2.: The lower limit applies at the band edges.

2.4. EUT's Configuration during Compliance Measurement

The following equipment were installed on RF LINE VOLTAGE measurement to meet the Commission requirement and operating in a manner which tended to maximize its emission characteristics in a normal application..

2.4.1. Display Color Monitor (EUT #1)

Model Number	:	6739-K0N A
Serial No.	:	TY0404515
Brand	:	IBM
FCC ID.	:	A3KM114
Manufacturer	:	Philips Electronics Industries (Taiwan) Ltd.
Scanning Frequency	:	Horizontal : 30kHz-96kHz Vertical : 50Hz-160Hz
Max. Resolution	:	1600*1200/75Hz
CRT	:	Samsung (SDI), M/N M46QCK761X214
Data Cable (D-Sub)	:	Shielded, Undetachable, 1.8m Bonded two ferrite cores
Power Cord	:	Non-Shielded, Detachable, 1.8m (3 Pin)

2.4.2. Display Color Monitor (EUT #2)

Model Number	:	6739-K0N A
Serial No.	:	TY0404520
Brand	:	IBM
FCC ID.	:	A3KM114
Manufacturer	:	Philips Electronics Industries (Taiwan) Ltd.
Scanning Frequency	:	Horizontal : 30kHz-96kHz Vertical : 50Hz-160Hz
Max. Resolution	:	1600*1200/75Hz
CRT	:	Chunghwa (CPT), M/N M46AJS53X46
Data Cable (D-Sub)	:	Shielded, Undetachable, 1.8m Bonded two ferrite cores
Power Cord	:	Non-Shielded, Detachable, 1.8m (3 Pin)

2.4.3. Display Color Monitor (EUT #3)

Model Number	:	6739-K0N A
Serial No.	:	TY0404519
Brand	:	IBM
FCC ID.	:	A3KM114
Manufacturer	:	Philips Electronics Industries (Taiwan) Ltd.
Scanning Frequency	:	Horizontal : 30kHz-96kHz Vertical : 50Hz-160Hz
Max. Resolution	:	1600*1200/75Hz
CRT	:	LG Philips (LPD), M/N M46QEF903X21
Data Cable (D-Sub)	:	Shielded, Undetachable, 1.8m Bonded two ferrite cores
Power Cord	:	Non-Shielded, Detachable, 1.8m (3 Pin)

2.4.4. Supporting System : As In Section 1.2.

2.5. Operating Condition of EUT

2.5.1. Setup the EUT and simulator as shown on 2.2.

2.5.2. Turned on the power of all equipment.

2.5.3. The PC system read data from disk.

2.5.4. The PC system running the self-test program "IBM V1.8" by windows XP and sent "H" character to Display Color Monitor (EUT) through VGA card, the screen displayed and filled with "H" pattern by EUT's resolution via D-Sub input.

2.5.5. The PC system played a CD-music disk and sent the sound to speaker link to PC system.

2.5.6. Repeat the above procedures from 2.5.3 to 2.5.5.

2.5.7. The other peripheral devices were driven and operated in turn during all testing.

2.6. Test Procedure

The EUT was put on table which was above the ground by 80cm and its power cord was connected to the power mains through a line impedance stabilization network (L.I.S.N. #1) and the other peripheral devices power cord were connected to the power mains through a line impedance stabilization network (L.I.S.N. #2) This provided a 50 ohm coupling impedance for the measuring equipment. (Please refer to the block diagram of the test setup and photographs.)
Both sides of A.C. line were checked for maximum conducted interference. In order to find the maximum emission, the relative positions simulators of the interface cables were manipulated according to FCC ANSI C63.4-2001 during conducted measurement.

The bandwidth of the R&S Test Receiver ESCS 30 was set at 9kHz.

The frequency range from 150kHz to 30MHz was pre-scanned with a peak detector.

The all final readings from Test Receiver were measured with the Quasi-Peak detector and Average detector. (Remark: If the Average limit is met when using a Quasi-Peak detector, the Average detector is unnecessary)

2.7. Test Results

PASSED.

(All the emissions not reported are below too low against the prescribed limits.)

EUT (Display Color Monitor, M/N: 6739-K0N A) with following test modes and with AC 120V/60Hz supplying voltage were performed during conducted testing and all the test results are attached in next pages.

(Test Date**:** Sep. 15, 2004 Temperature**:** 24℃ Humidity**:** 53%)

The details of test modes are as follows:

Mode	Serial No. /CRT	Resolution/ Frequency	Reference Test Data No.	
			Neutral	Line
1.	TY0404515 (SDI)	640*480/60Hz	# 38.	# 37.
2.		1280*1024/85Hz	# 39.	# 40.
3.		1600*1200/75Hz	# 42.	# 41.
4.	TY0404520 (CPT)	640*480/60Hz	# 6.	# 5.
5.		1280*1024/85Hz	# 3.	# 4.
6.		1600*1200/75Hz	# 2.	# 1.
7.	TY0404519 (LPD)	640*480/60Hz	# 36.	# 35.
8.		1280*1024/85Hz	# 33.	# 34.
9.		1600*1200/75Hz	# 32.	# 31.

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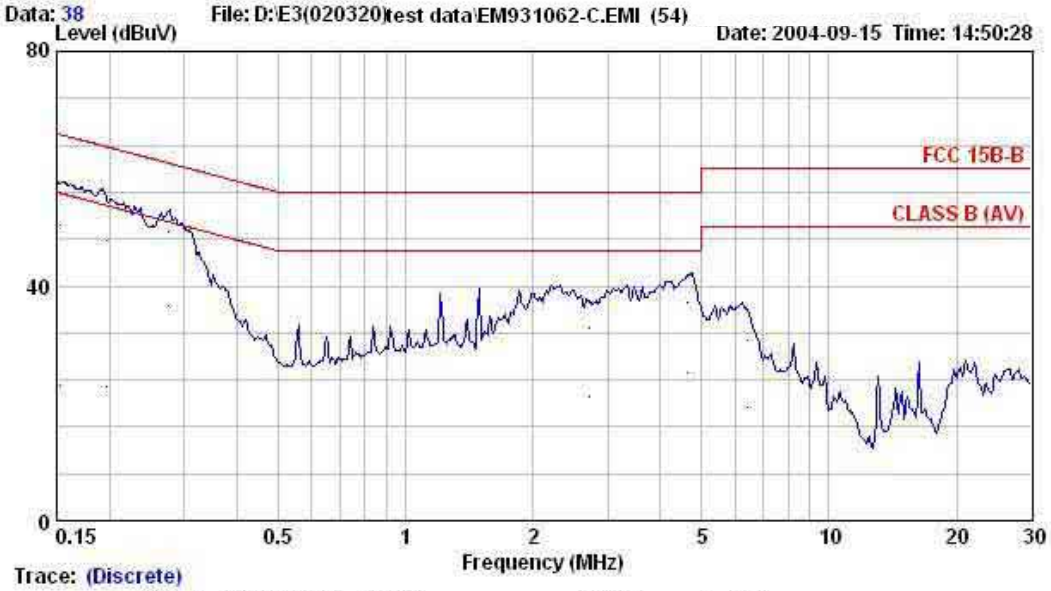

Site : NO.3 Shielded room Data : 38
Condition : KNW-244C Phase : NEUTRAL
Limit : FCC 15B-B
Env. / Ins. : (24*C,53%) /ESCS30 Engineer: Alex Huang
EUT : Display Color Monitor M/N:6739-KON A
Power Rating : 120Vac/60Hz
Test Mode : 640*480/60Hz /31KHz
S/N:TY0404515

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV)	Limits (dBµV)	Margin (dB)	Remark
1	0.153	0.14	0.20	50.07	50.41	65.86	15.45	QP
2	0.153	0.14	0.20	22.91	23.25	55.86	32.61	AVERAGE
3	0.197	0.10	0.20	47.35	47.65	63.76	16.10	QP
4	0.197	0.10	0.20	22.51	22.81	53.76	30.94	AVERAGE
5	0.275	0.10	0.20	48.99	49.29	60.97	11.68	QP
6	0.275	0.10	0.20	36.26	36.56	50.97	14.41	AVERAGE
7	2.720	0.20	0.40	32.28	32.88	56.00	23.12	QP
8	2.720	0.20	0.40	20.44	21.04	46.00	24.96	AVERAGE
9	4.634	0.22	0.60	36.28	37.10	56.00	18.90	QP
10	4.634	0.22	0.60	24.50	25.32	46.00	20.68	AVERAGE
11	6.439	0.25	0.60	30.01	30.86	60.00	29.14	QP
12	6.439	0.25	0.60	18.57	19.42	50.00	30.58	AVERAGE

Remarks: 1.Emission Level= LISN Factor + Cable Loss + Reading.
2.If the average limit is met when using a quasi-peak detector ,the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

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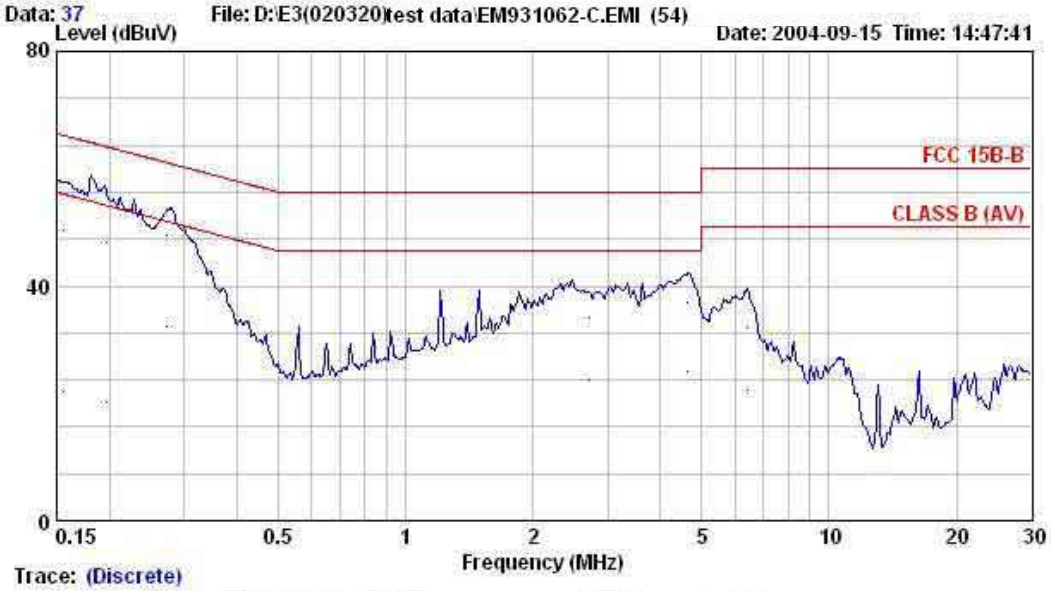

Site : NO.3 Shielded room Data : 37
Condition : KNW-244C Phase : LINE
Limit : FCC 15B-B
Env. / Ins. : (24*C,53%) /ESCS30 Engineer: Alex Huang
EUT : Display Color Monitor M/N:6739-KON A
Power Rating : 120Vac/60Hz
Test Mode : 640*480/60Hz /31KHz
S/N:TY0404515

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV)	Limits (dBµV)	Margin (dB)	Remark
1	0.156	0.14	0.20	49.29	49.63	65.65	16.03	QP
2	0.156	0.14	0.20	21.75	22.09	55.65	33.57	AVERAGE
3	0.197	0.10	0.20	47.17	47.47	63.72	16.25	QP
4	0.197	0.10	0.20	19.98	20.28	53.72	33.44	AVERAGE
5	0.272	0.10	0.20	48.31	48.61	61.05	12.44	QP
6	0.272	0.10	0.20	32.88	33.18	51.05	17.87	AVERAGE
7	2.719	0.14	0.40	33.89	34.43	56.00	21.57	QP
8	2.719	0.14	0.40	23.60	24.14	46.00	21.86	AVERAGE
9	4.634	0.23	0.60	36.46	37.29	56.00	18.71	QP
10	4.634	0.23	0.60	24.75	25.58	46.00	20.42	AVERAGE
11	6.440	0.30	0.60	31.84	32.74	60.00	27.26	QP
12	6.440	0.30	0.60	21.44	22.34	50.00	27.66	AVERAGE

Remarks: 1.Emission Level= LISN Factor + Cable Loss + Reading.
2.If the average limit is met when using a quasi-peak detector ,the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

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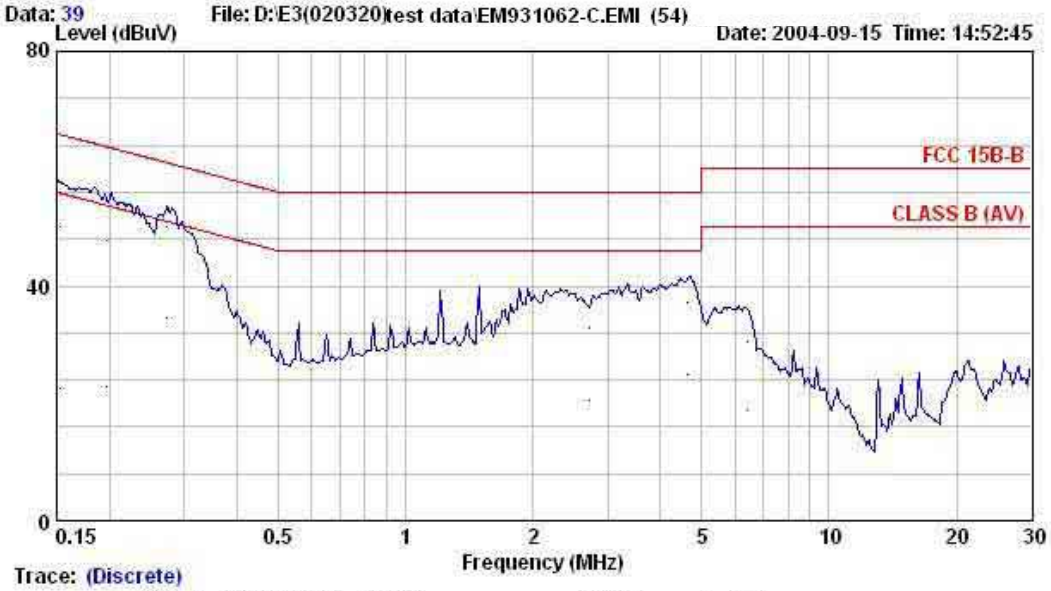

Site : NO.3 Shielded room Data : 39
Condition : KNW-244C Phase : NEUTRAL
Limit : FCC 15B-B
Env. / Ins. : (24*C,53%) /ESCS30 Engineer: Alex Huang
EUT : Display Color Monitor M/N:6739-KON A
Power Rating : 120Vac/60Hz
Test Mode : 1280*1024/85Hz /91KHz
S/N:TY0404515

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV)	Limits (dBµV)	Margin (dB)	Remark
1	0.153	0.14	0.20	49.87	50.21	65.86	15.65	QP
2	0.153	0.14	0.20	22.36	22.70	55.86	33.16	AVERAGE
3	0.197	0.10	0.20	47.49	47.79	63.76	15.96	QP
4	0.197	0.10	0.20	22.46	22.76	53.76	30.99	AVERAGE
5	0.272	0.10	0.20	49.67	49.97	61.05	11.08	QP
6	0.272	0.10	0.20	34.29	34.59	51.05	16.46	AVERAGE
7	2.720	0.20	0.40	32.20	32.80	56.00	23.20	QP
8	2.720	0.20	0.40	19.99	20.59	46.00	25.41	AVERAGE
9	4.635	0.22	0.60	36.34	37.16	56.00	18.84	QP
10	4.635	0.22	0.60	24.07	24.89	46.00	21.11	AVERAGE
11	6.439	0.25	0.60	29.75	30.60	60.00	29.40	QP
12	6.439	0.25	0.60	17.88	18.73	50.00	31.27	AVERAGE

Remarks: 1.Emission Level= LISN Factor + Cable Loss + Reading.
2.If the average limit is met when using a quasi-peak detector ,the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

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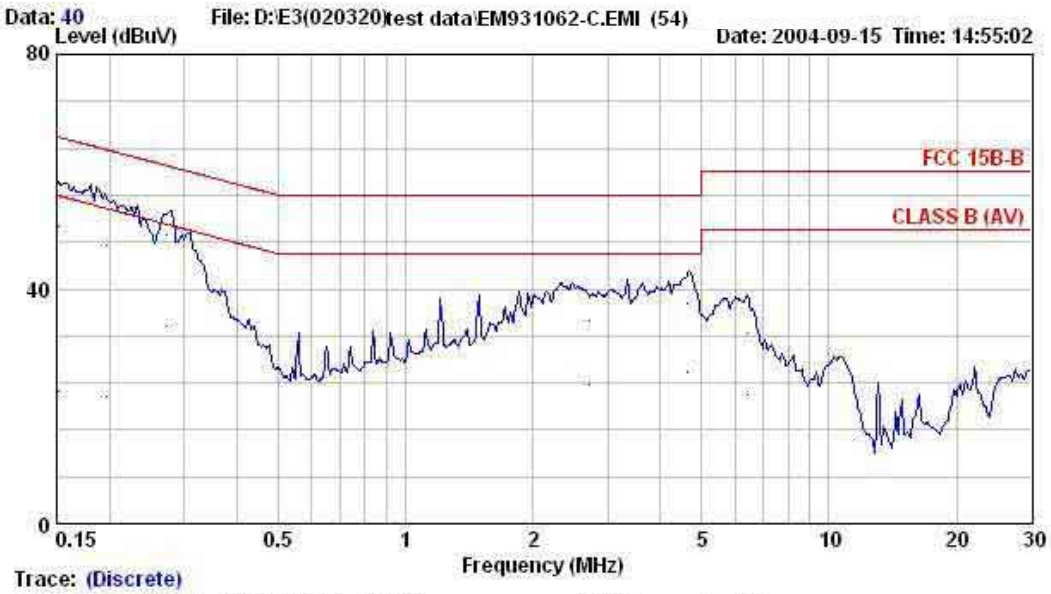

Site : NO.3 Shielded room Data : 40
Condition : KNW-244C Phase : LINE
Limit : FCC 15B-B
Env. / Ins. : (24*C,53%) /ESCS30 Engineer: Alex Huang
EUT : Display Color Monitor M/N:6739-KON A
Power Rating : 120Vac/60Hz
Test Mode : 1280*1024/85Hz /91KHz
S/N:TY0404515

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV)	Limits (dBµV)	Margin (dB)	Remark
1	0.151	0.14	0.20	50.28	50.62	65.93	15.31	QP
2	0.151	0.14	0.20	22.22	22.56	55.93	33.37	AVERAGE
3	0.197	0.10	0.20	47.23	47.53	63.76	16.22	QP
4	0.197	0.10	0.20	21.26	21.56	53.76	32.19	AVERAGE
5	0.272	0.10	0.20	48.97	49.27	61.05	11.78	QP
6	0.272	0.10	0.20	33.54	33.84	51.05	17.21	AVERAGE
7	2.719	0.14	0.40	34.07	34.61	56.00	21.39	QP
8	2.719	0.14	0.40	23.20	23.74	46.00	22.26	AVERAGE
9	4.634	0.23	0.60	36.79	37.62	56.00	18.38	QP
10	4.634	0.23	0.60	24.89	25.72	46.00	20.28	AVERAGE
11	6.439	0.30	0.60	31.57	32.47	60.00	27.53	QP
12	6.439	0.30	0.60	21.11	22.01	50.00	27.99	AVERAGE

Remarks: 1.Emission Level= LISN Factor + Cable Loss + Reading.
2.If the average limit is met when using a quasi-peak detector ,the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

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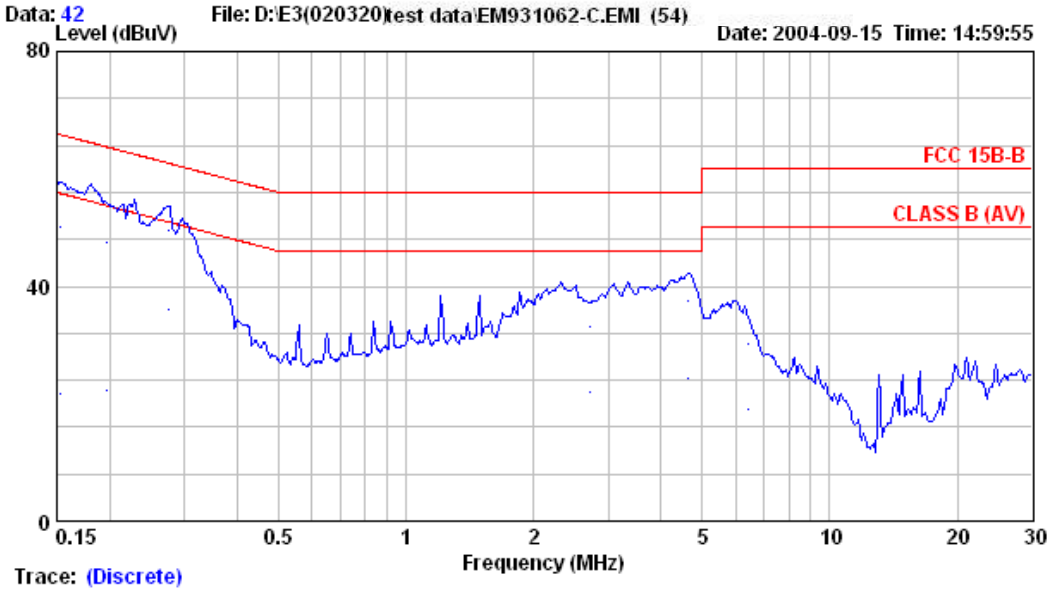

Site : NO.3 Shielded room Data : 42
Condition : KNW-244C Phase : NEUTRAL
Limit : FCC 15B-B
Env. / Ins. : (24*C,53%) /ESCS30 Engineer: Alex Huang
EUT : Display Color Monitor M/N:6739-KON A
Power Rating : 120Vac/60Hz
Test Mode : 1600*1200/75Hz /94KHz
S/N:TY0404515

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV)	Limits (dBµV)	Margin (dB)	Remark
1	0.153	0.14	0.20	49.83	50.17	65.86	15.69	QP
2	0.153	0.14	0.20	21.33	21.67	55.86	34.19	AVERAGE
3	0.197	0.10	0.20	47.31	47.61	63.76	16.14	QP
4	0.197	0.10	0.20	22.08	22.38	53.76	31.37	AVERAGE
5	0.275	0.10	0.20	49.29	49.59	60.97	11.38	QP
6	0.275	0.10	0.20	35.70	36.00	50.97	14.97	AVERAGE
7	2.719	0.20	0.40	32.38	32.98	56.00	23.02	QP
8	2.719	0.20	0.40	21.50	22.10	46.00	23.90	AVERAGE
9	4.637	0.22	0.60	36.77	37.59	56.00	18.41	QP
10	4.637	0.22	0.60	23.58	24.40	46.00	21.60	AVERAGE
11	6.439	0.25	0.60	29.37	30.22	60.00	29.78	QP
12	6.439	0.25	0.60	18.25	19.10	50.00	30.90	AVERAGE

Remarks: 1.Emission Level= LISN Factor + Cable Loss + Reading.
2.If the average limit is met when using a quasi-peak detector ,the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

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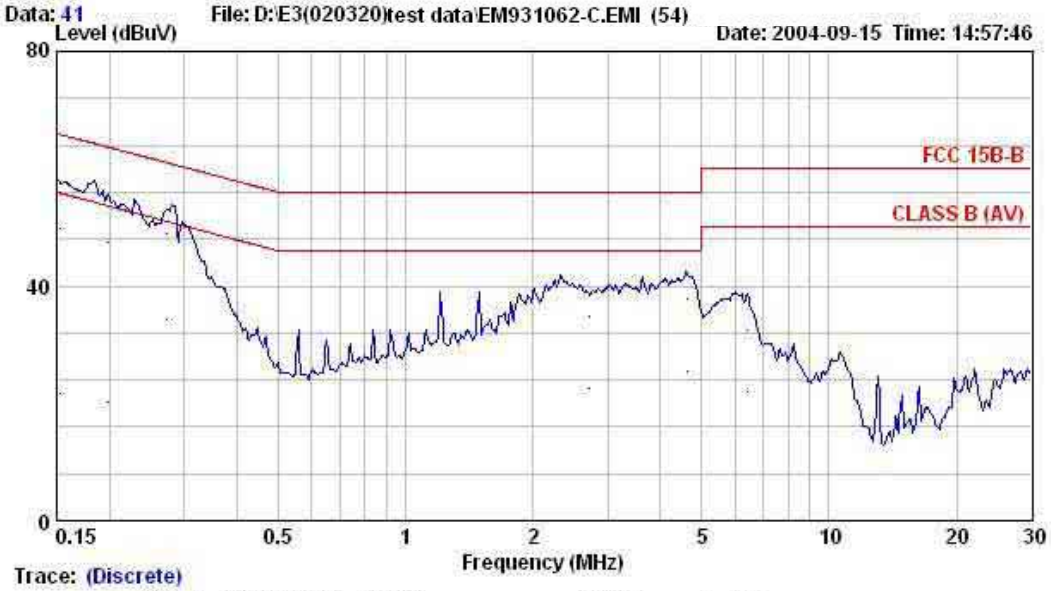

Site : NO.3 Shielded room Data : 41
Condition : KNW-244C Phase : LINE
Limit : FCC 15B-B
Env. / Ins. : (24*C,53%) /ESCS30 Engineer: Alex Huang
EUT : Display Color Monitor M/N:6739-KON A
Power Rating : 120Vac/60Hz
Test Mode : 1600*1200/75Hz /94KHz
S/N:TY0404515

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV)	Limits (dBµV)	Margin (dB)	Remark
1	0.153	0.14	0.20	49.57	49.91	65.86	15.95	QP
2	0.153	0.14	0.20	21.43	21.77	55.86	34.09	AVERAGE
3	0.198	0.10	0.20	47.13	47.43	63.70	16.27	QP
4	0.198	0.10	0.20	19.78	20.08	53.70	33.62	AVERAGE
5	0.274	0.10	0.20	48.73	49.03	61.01	11.98	QP
6	0.274	0.10	0.20	34.06	34.36	51.01	16.65	AVERAGE
7	2.720	0.14	0.40	34.19	34.73	56.00	21.27	QP
8	2.720	0.14	0.40	22.15	22.69	46.00	23.31	AVERAGE
9	4.637	0.23	0.60	37.01	37.84	56.00	18.16	QP
10	4.637	0.23	0.60	24.54	25.37	46.00	20.63	AVERAGE
11	6.439	0.30	0.60	31.51	32.41	60.00	27.59	QP
12	6.439	0.30	0.60	20.94	21.84	50.00	28.16	AVERAGE

Remarks: 1.Emission Level= LISN Factor + Cable Loss + Reading.
2.If the average limit is met when using a quasi-peak detector ,the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

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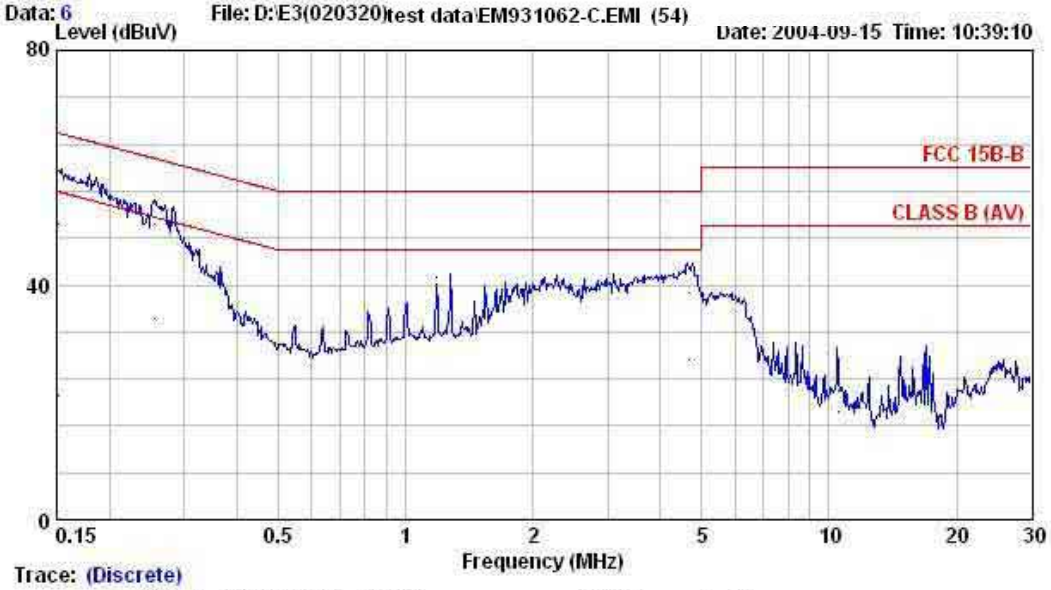

Site : NO.3 Shielded room Data : 6
Condition : KNW-244C Phase : NEUTRAL
Limit : FCC 15B-B
Env. / Ins. : (24*C,53%) /ESCS30 Engineer: Alex Huang
EUT : Display Color Monitor M/N:6739-KON A
Power Rating : 120Vac/60Hz
Test Mode : 640*480 /60Hz /31KHz
S/N:TY0404520

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV)	Limits (dBµV)	Margin (dB)	Remark
1	0.152	0.14	0.20	49.93	50.27	65.89	15.62	QP
2	0.152	0.14	0.20	20.87	21.21	55.89	34.68	AVERAGE
3	0.255	0.10	0.20	50.20	50.50	61.60	11.10	QP
4	0.255	0.10	0.20	34.06	34.36	51.60	17.24	AVERAGE
5	1.185	0.12	0.40	40.70	41.22	56.00	14.78	QP
6	1.185	0.12	0.40	37.82	38.34	46.00	7.66	AVERAGE
7	1.277	0.14	0.40	40.92	41.46	56.00	14.54	QP
8	1.277	0.14	0.40	40.39	40.93	46.00	5.07	AVERAGE @
9	4.685	0.22	0.60	37.88	38.70	56.00	17.30	QP
10	4.685	0.22	0.60	26.46	27.28	46.00	18.72	AVERAGE
11	10.574	0.31	0.70	21.08	22.09	60.00	37.91	QP
12	10.574	0.31	0.70	17.56	18.57	50.00	31.43	AVERAGE

Remarks: 1.Emission Level= LISN Factor + Cable Loss + Reading.
2.If the average limit is met when using a quasi-peak detector ,the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

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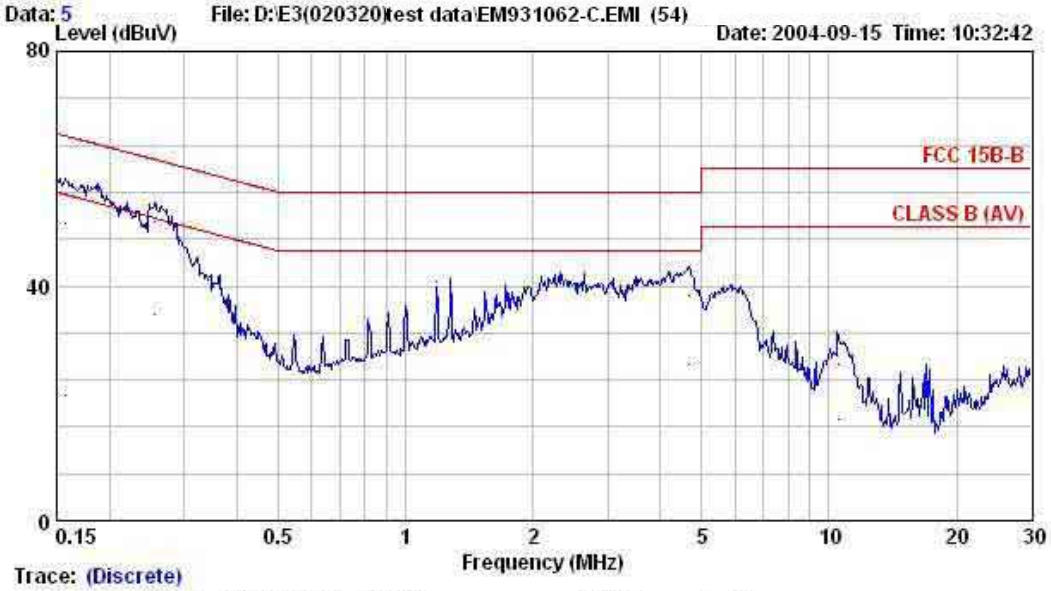

Site : NO.3 Shielded room Data : 5
Condition : KNW-244C Phase : LINE
Limit : FCC 15B-B
Env. / Ins. : (24*C,53%) /ESCS30 Engineer: Alex Huang
EUT : Display Color Monitor M/N:6739-KON A
Power Rating : 120Vac/60Hz
Test Mode : 640*480 /60Hz /31KHz
S/N:TY0404520

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV)	Limits (dBµV)	Margin (dB)	Remark
1	0.158	0.13	0.20	50.30	50.63	65.59	14.96	QP
2	0.158	0.13	0.20	21.15	21.48	55.59	34.11	AVERAGE
3	0.257	0.10	0.20	50.58	50.88	61.54	10.66	QP
4	0.257	0.10	0.20	34.81	35.11	51.54	16.43	AVERAGE
5	1.184	0.10	0.40	40.36	40.86	56.00	15.14	QP
6	1.184	0.10	0.40	37.62	38.12	46.00	7.88	AVERAGE
7	1.274	0.10	0.40	40.24	40.74	56.00	15.26	QP
8	1.274	0.10	0.40	39.73	40.23	46.00	5.77	AVERAGE
9	4.684	0.23	0.60	37.56	38.39	56.00	17.61	QP
10	4.684	0.23	0.60	25.86	26.69	46.00	19.31	AVERAGE
11	10.573	0.40	0.70	25.57	26.67	60.00	33.33	QP
12	10.573	0.40	0.70	16.29	17.39	50.00	32.61	AVERAGE

Remarks: 1.Emission Level= LISN Factor + Cable Loss + Reading.
2.If the average limit is met when using a quasi-peak detector ,the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

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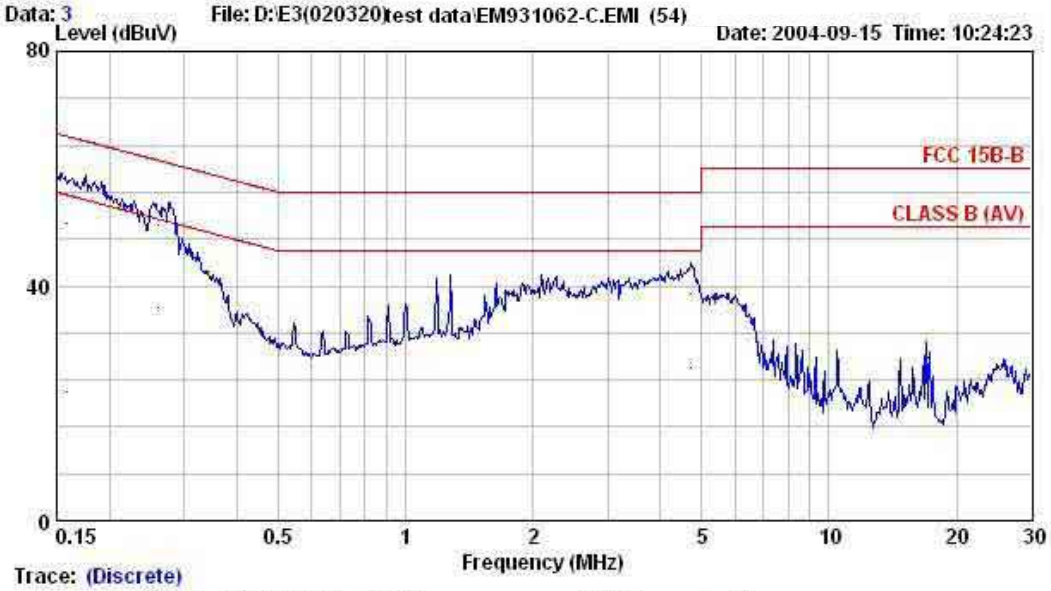

Site : NO.3 Shielded room Data : 3
Condition : KNW-244C Phase : NEUTRAL
Limit : FCC 15B-B
Env. / Ins. : (24*C,53%) /ESCS30 Engineer: Alex Huang
EUT : Display Color Monitor M/N:6739-KON A
Power Rating : 120Vac/60Hz
Test Mode : 1280*1024 /85Hz /91KHz
S/N:TY0404520

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV)	Limits (dBµV)	Margin (dB)	Remark
1	0.159	0.13	0.20	50.38	50.71	65.53	14.82	QP
2	0.159	0.13	0.20	21.62	21.95	55.53	33.58	AVERAGE
3	0.260	0.10	0.20	50.03	50.33	61.43	11.10	QP
4	0.260	0.10	0.20	36.13	36.43	51.43	15.00	AVERAGE
5	1.185	0.12	0.40	40.68	41.20	56.00	14.80	QP
6	1.185	0.12	0.40	38.18	38.70	46.00	7.30	AVERAGE
7	1.275	0.14	0.40	40.64	41.18	56.00	14.82	QP
8	1.275	0.14	0.40	40.21	40.75	46.00	5.25	AVERAGE
9	4.726	0.22	0.60	37.97	38.79	56.00	17.21	QP
10	4.726	0.22	0.60	25.30	26.12	46.00	19.88	AVERAGE
11	17.047	0.40	0.70	26.65	27.75	60.00	32.25	QP
12	17.047	0.40	0.70	25.47	26.57	50.00	23.43	AVERAGE

Remarks: 1.Emission Level= LISN Factor + Cable Loss + Reading.
2.If the average limit is met when using a quasi-peak detector ,the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

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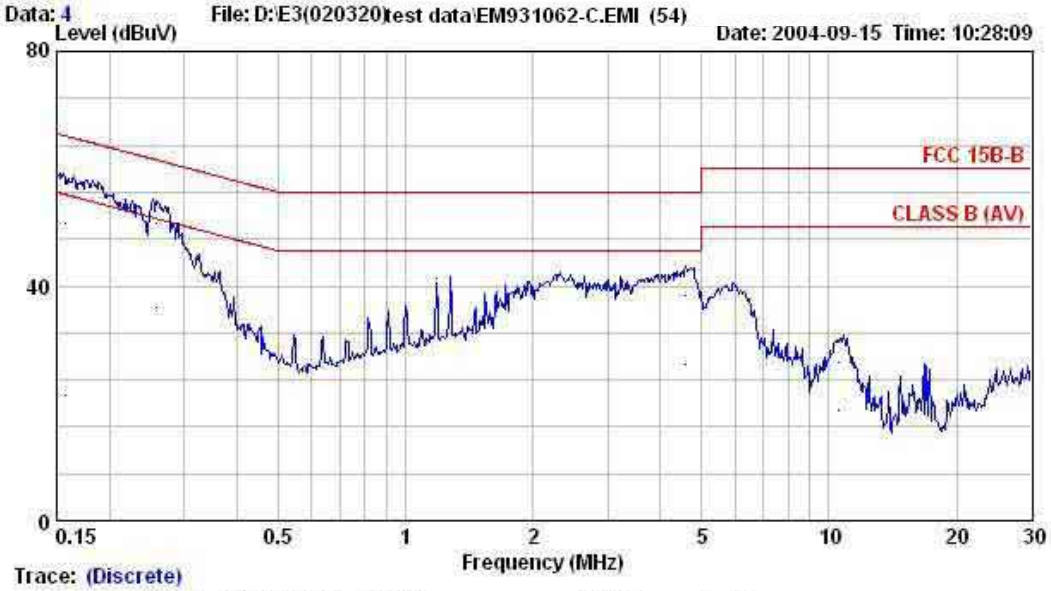

Site : NO.3 Shielded room Data : 4
Condition : KNW-244C Phase : LINE
Limit : FCC 15B-B
Env. / Ins. : (24*C,53%) /ESCS30 Engineer: Alex Huang
EUT : Display Color Monitor M/N:6739-KON A
Power Rating : 120Vac/60Hz
Test Mode : 1280*1024 /85Hz /91KHz
S/N:TY0404520

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV)	Limits (dBµV)	Margin (dB)	Remark
1	0.158	0.13	0.20	50.34	50.67	65.59	14.92	QP
2	0.158	0.13	0.20	21.12	21.45	55.59	34.14	AVERAGE
3	0.259	0.10	0.20	50.50	50.80	61.47	10.67	QP
4	0.259	0.10	0.20	35.95	36.25	51.47	15.22	AVERAGE
5	1.185	0.10	0.40	40.80	41.30	56.00	14.70	QP
6	1.185	0.10	0.40	38.17	38.67	46.00	7.33	AVERAGE
7	1.275	0.10	0.40	40.54	41.04	56.00	14.96	QP
8	1.275	0.10	0.40	40.10	40.60	46.00	5.40	AVERAGE
9	4.605	0.23	0.60	37.61	38.44	56.00	17.56	QP
10	4.605	0.23	0.60	25.69	26.52	46.00	19.48	AVERAGE
11	10.576	0.40	0.70	25.75	26.85	60.00	33.15	QP
12	10.576	0.40	0.70	17.56	18.66	50.00	31.34	AVERAGE

Remarks: 1.Emission Level= LISN Factor + Cable Loss + Reading.
2.If the average limit is met when using a quasi-peak detector ,the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

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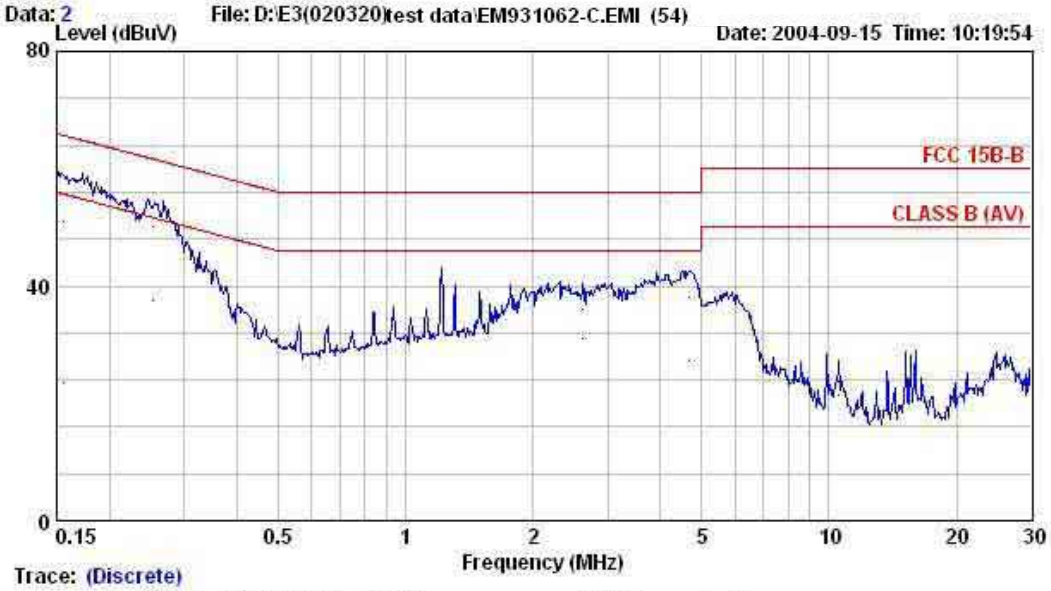

Site : NO.3 Shielded room Data : 2
Condition : KNW-244C Phase : NEUTRAL
Limit : FCC 15B-B
Env. / Ins. : (24*C,53%) /ESCS30 Engineer: Alex Huang
EUT : Display Color Monitor M/N:6739-KON A
Power Rating : 120Vac/60Hz
Test Mode : 1600*1200 /75Hz /94KHz
S/N:TY0404520

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV)	Limits (dBµV)	Margin (dB)	Remark
1	0.155	0.14	0.20	50.68	51.02	65.73	14.71	QP
2	0.155	0.14	0.20	23.09	23.43	55.73	32.30	AVERAGE
3	0.254	0.10	0.20	49.89	50.19	61.64	11.45	QP
4	0.254	0.10	0.20	37.27	37.57	51.64	14.07	AVERAGE
5	1.215	0.13	0.40	41.40	41.93	56.00	14.07	QP
6	1.215	0.13	0.40	39.89	40.42	46.00	5.58	AVERAGE
7	2.620	0.20	0.40	35.57	36.17	56.00	19.83	QP
8	2.620	0.20	0.40	30.52	31.12	46.00	14.88	AVERAGE
9	4.692	0.22	0.60	37.39	38.21	56.00	17.79	QP
10	4.692	0.22	0.60	26.44	27.26	46.00	18.74	AVERAGE
11	10.570	0.31	0.70	22.74	23.75	60.00	36.25	QP
12	10.570	0.31	0.70	20.35	21.36	50.00	28.64	AVERAGE

Remarks: 1.Emission Level= LISN Factor + Cable Loss + Reading.
2.If the average limit is met when using a quasi-peak detector ,the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

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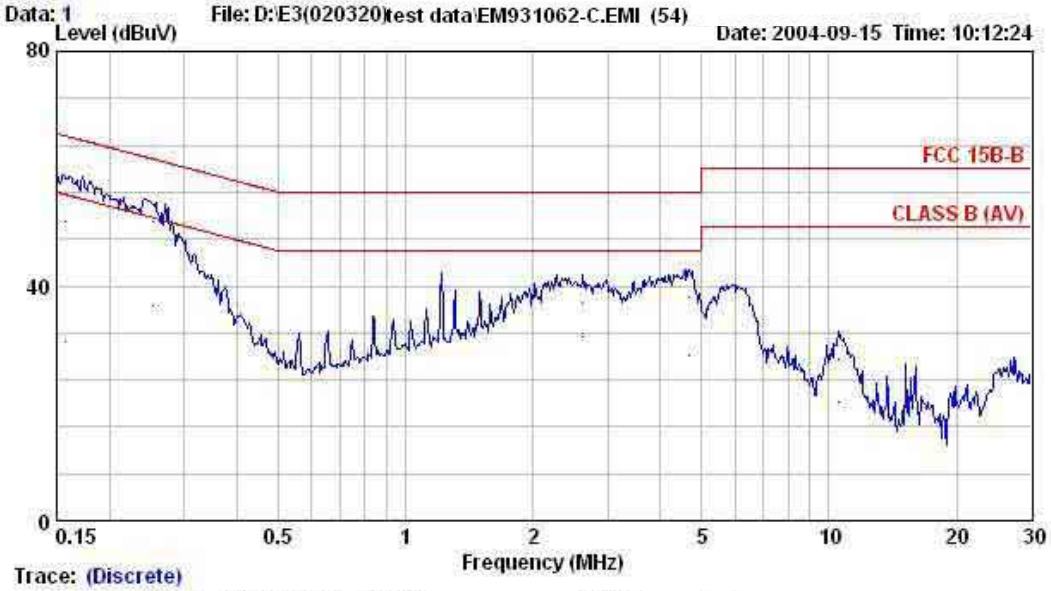

Site : NO.3 Shielded room Data : 1
Condition : KNW-244C Phase : LINE
Limit : FCC 15B-B
Env. / Ins. : (24*C,53%) /ESCS30 Engineer: Alex Huang
EUT : Display Color Monitor M/N:6739-KON A
Power Rating : 120Vac/60Hz
Test Mode : 1600*1200 /75Hz /94KHz
S/N:TY0404520

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV)	Limits (dBµV)	Margin (dB)	Remark
1	0.158	0.13	0.20	50.60	50.93	65.59	14.66	QP
2	0.158	0.13	0.20	30.14	30.47	55.59	25.12	AVERAGE
3	0.254	0.10	0.20	50.77	51.07	61.64	10.57	QP
4	0.254	0.10	0.20	36.39	36.69	51.64	14.95	AVERAGE
5	1.216	0.10	0.40	41.70	42.20	56.00	13.80	QP
6	1.216	0.10	0.40	40.26	40.76	46.00	5.24	AVERAGE @
7	2.619	0.14	0.40	36.62	37.16	56.00	18.84	QP
8	2.619	0.14	0.40	30.80	31.34	46.00	14.66	AVERAGE
9	4.684	0.23	0.60	37.25	38.08	56.00	17.92	QP
10	4.684	0.23	0.60	27.16	27.99	46.00	18.01	AVERAGE
11	10.570	0.40	0.70	26.57	27.67	60.00	32.33	QP
12	10.570	0.40	0.70	19.12	20.22	50.00	29.78	AVERAGE

Remarks: 1.Emission Level= LISN Factor + Cable Loss + Reading.
2.If the average limit is met when using a quasi-peak detector ,the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

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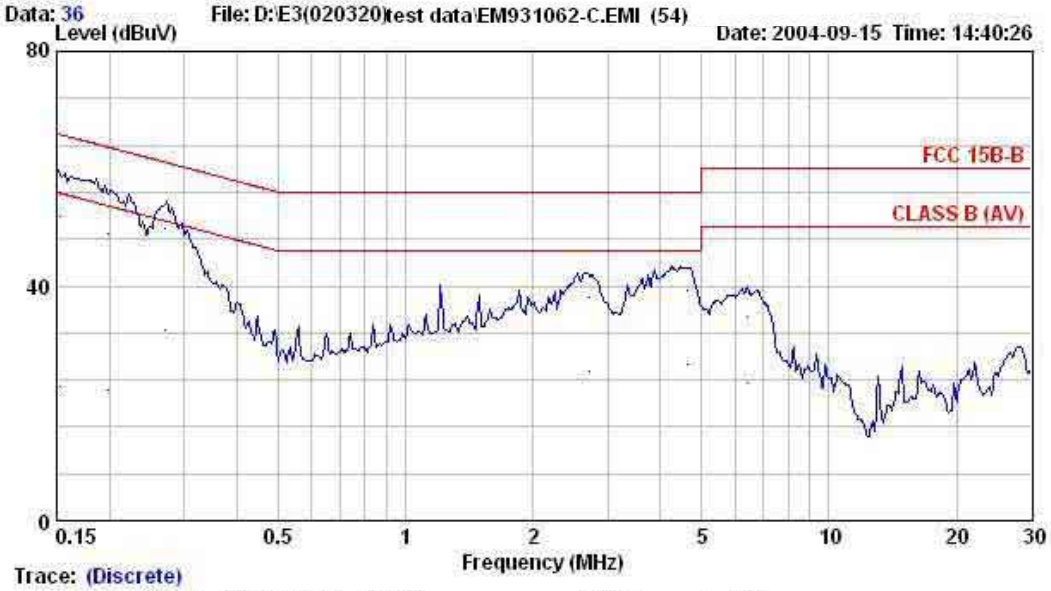

Site : NO.3 Shielded room Data : 36
Condition : KNW-244C Phase : NEUTRAL
Limit : FCC 15B-B
Env. / Ins. : (24*C,53%) /ESCS30 Engineer: Alex Huang
EUT : Display Color Monitor M/N:6739-KON A
Power Rating : 120Vac/60Hz
Test Mode : 640*480/60Hz /31KHz
S/N:TY0404519

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV)	Limits (dBµV)	Margin (dB)	Remark
1	0.153	0.14	0.20	51.67	52.01	65.86	13.85	QP
2	0.153	0.14	0.20	22.45	22.79	55.86	33.07	AVERAGE
3	0.198	0.10	0.20	48.61	48.91	63.70	14.79	QP
4	0.198	0.10	0.20	21.96	22.26	53.70	31.44	AVERAGE
5	0.271	0.10	0.20	49.65	49.95	61.07	11.12	QP
6	0.271	0.10	0.20	32.36	32.66	51.07	18.41	AVERAGE
7	2.719	0.20	0.40	37.42	38.02	56.00	17.98	QP
8	2.719	0.20	0.40	24.83	25.43	46.00	20.57	AVERAGE
9	4.633	0.22	0.60	38.31	39.13	56.00	16.87	QP
10	4.633	0.22	0.60	25.87	26.69	46.00	19.31	AVERAGE
11	6.443	0.25	0.60	34.07	34.92	60.00	25.08	QP
12	6.443	0.25	0.60	22.72	23.57	50.00	26.43	AVERAGE

Remarks: 1.Emission Level= LISN Factor + Cable Loss + Reading.
2.If the average limit is met when using a quasi-peak detector ,the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

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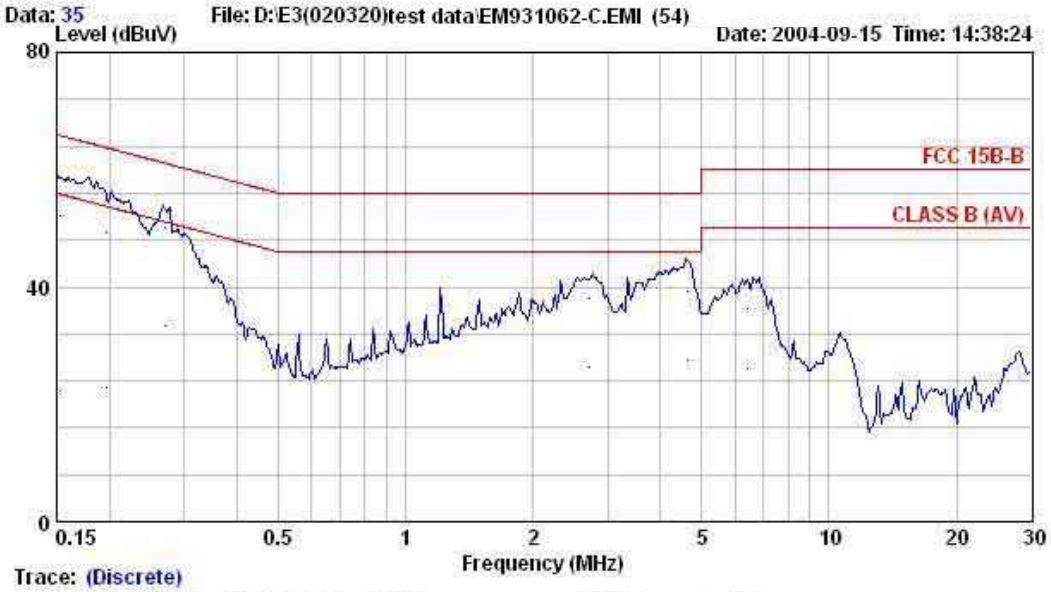

Site : NO.3 Shielded room Data : 35
Condition : KNW-244C Phase : LINE
Limit : FCC 15B-B
Env. / Ins. : (24*C,53%) /ESCS30 Engineer: Alex Huang
EUT : Display Color Monitor M/N:6739-KON A
Power Rating : 120Vac/60Hz
Test Mode : 640*480/60Hz /31KHz
S/N:TY0404519

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV)	Limits (dBµV)	Margin (dB)	Remark
1	0.153	0.14	0.20	51.83	52.17	65.86	13.69	QP
2	0.153	0.14	0.20	21.89	22.23	55.86	33.63	AVERAGE
3	0.197	0.10	0.20	49.05	49.35	63.76	14.40	QP
4	0.197	0.10	0.20	22.55	22.85	53.76	30.90	AVERAGE
5	0.271	0.10	0.20	49.73	50.03	61.07	11.04	QP
6	0.271	0.10	0.20	32.97	33.27	51.07	17.80	AVERAGE
7	2.719	0.14	0.40	37.63	38.17	56.00	17.83	QP
8	2.719	0.14	0.40	25.77	26.31	46.00	19.69	AVERAGE
9	4.634	0.23	0.60	38.41	39.24	56.00	16.76	QP
10	4.634	0.23	0.60	26.60	27.43	46.00	18.57	AVERAGE
11	6.440	0.30	0.60	35.56	36.46	60.00	23.54	QP
12	6.440	0.30	0.60	25.08	25.98	50.00	24.02	AVERAGE

Remarks: 1.Emission Level= LISN Factor + Cable Loss + Reading.
2.If the average limit is met when using a quasi-peak detector ,the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

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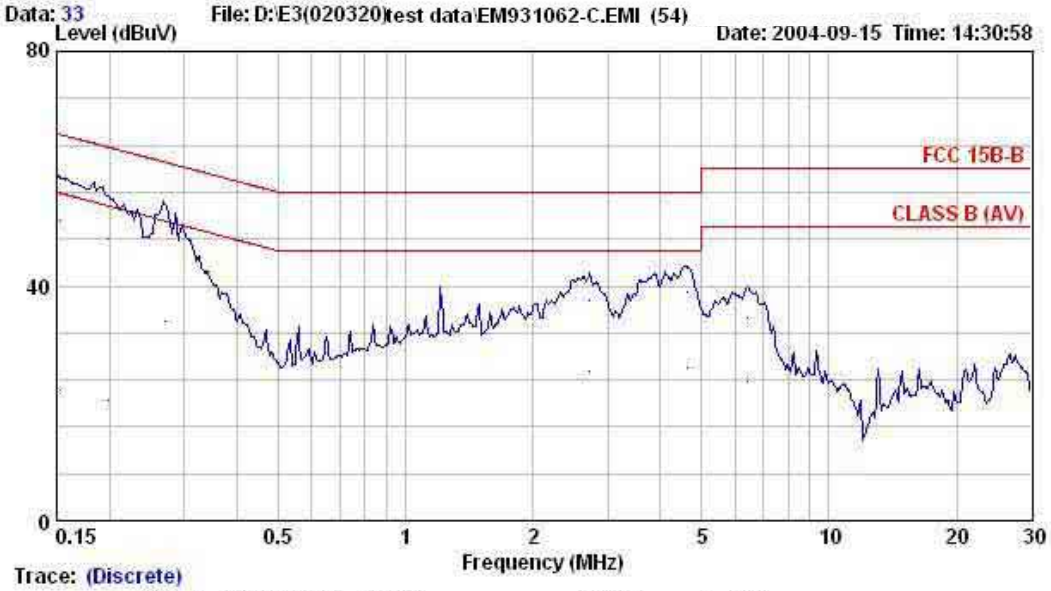

Site : NO.3 Shielded room Data : 33
Condition : KNW-244C Phase : NEUTRAL
Limit : FCC 15B-B
Env. / Ins. : (24*C,53%) /ESCS30 Engineer: Alex Huang
EUT : Display Color Monitor M/N:6739-KON A
Power Rating : 120Vac/60Hz
Test Mode : 1280*1024/85Hz /91KHz
S/N:TY0404519

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV)	Limits (dBµV)	Margin (dB)	Remark
1	0.153	0.14	0.20	51.01	51.35	65.86	14.51	QP
2	0.153	0.14	0.20	21.99	22.33	55.86	33.53	AVERAGE
3	0.198	0.10	0.20	47.79	48.09	63.70	15.61	QP
4	0.198	0.10	0.20	20.32	20.62	53.70	33.08	AVERAGE
5	0.270	0.10	0.20	50.56	50.86	61.11	10.25	QP
6	0.270	0.10	0.20	33.57	33.87	51.11	17.24	AVERAGE
7	2.718	0.20	0.40	36.84	37.44	56.00	18.56	QP
8	2.718	0.20	0.40	24.75	25.35	46.00	20.65	AVERAGE
9	4.633	0.22	0.60	38.15	38.97	56.00	17.03	QP
10	4.633	0.22	0.60	25.33	26.15	46.00	19.85	AVERAGE
11	6.438	0.25	0.60	33.65	34.50	60.00	25.50	QP
12	6.438	0.25	0.60	22.76	23.61	50.00	26.39	AVERAGE

Remarks: 1.Emission Level= LISN Factor + Cable Loss + Reading.
2.If the average limit is met when using a quasi-peak detector ,the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

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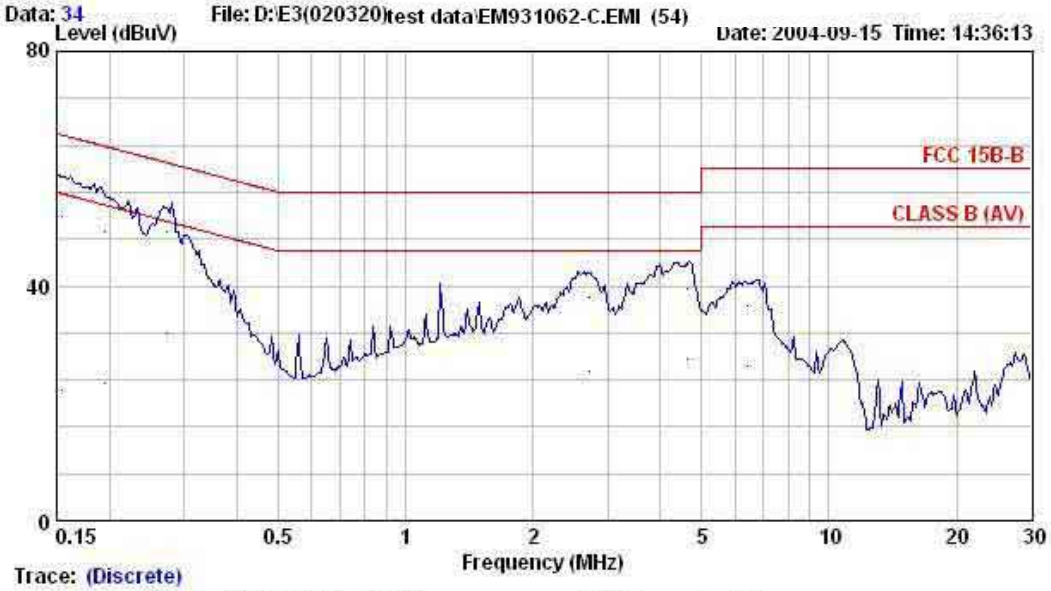

Site : NO.3 Shielded room Data : 34
Condition : KNW-244C Phase : LINE
Limit : FCC 15B-B
Env. / Ins. : (24*C,53%) /ESCS30 Engineer: Alex Huang
EUT : Display Color Monitor M/N:6739-KON A
Power Rating : 120Vac/60Hz
Test Mode : 1280*1024/85Hz /91KHz
S/N:TY0404519

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV)	Limits (dBµV)	Margin (dB)	Remark
1	0.154	0.14	0.20	51.43	51.77	65.79	14.02	QP
2	0.154	0.14	0.20	21.79	22.13	55.79	33.66	AVERAGE
3	0.195	0.10	0.20	48.83	49.13	63.81	14.68	QP
4	0.195	0.10	0.20	23.05	23.35	53.81	30.46	AVERAGE
5	0.273	0.10	0.20	49.05	49.35	61.03	11.68	QP
6	0.273	0.10	0.20	31.74	32.04	51.03	18.99	AVERAGE
7	2.719	0.14	0.40	37.42	37.96	56.00	18.04	QP
8	2.719	0.14	0.40	25.03	25.57	46.00	20.43	AVERAGE
9	4.634	0.23	0.60	38.66	39.49	56.00	16.51	QP
10	4.634	0.23	0.60	26.76	27.59	46.00	18.41	AVERAGE
11	6.439	0.30	0.60	35.78	36.68	60.00	23.32	QP
12	6.439	0.30	0.60	25.35	26.25	50.00	23.75	AVERAGE

Remarks: 1.Emission Level= LISN Factor + Cable Loss + Reading.
2.If the average limit is met when using a quasi-peak detector ,the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

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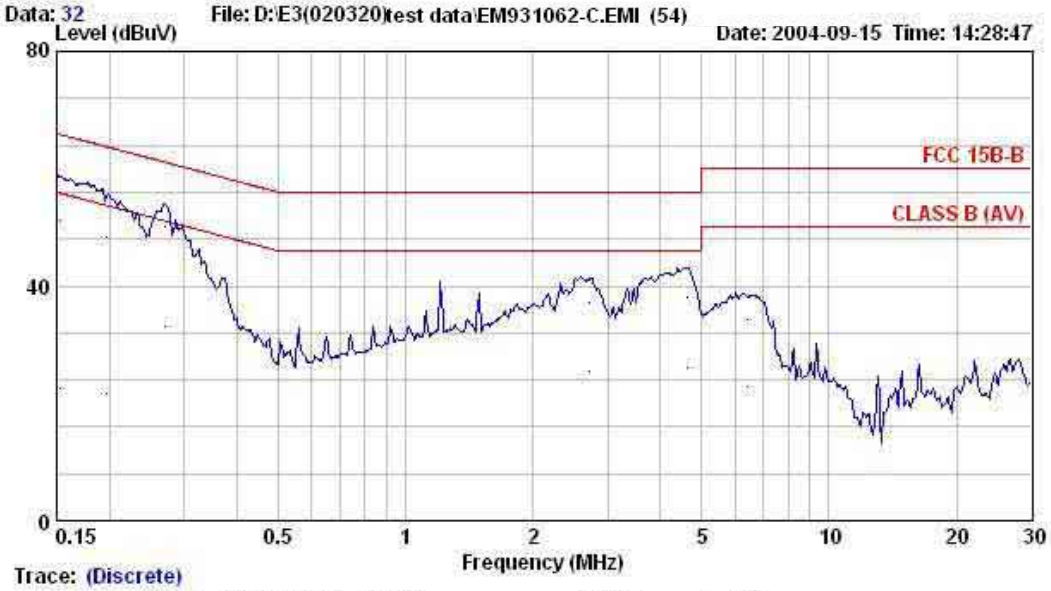

Site : NO.3 Shielded room Data : 32
Condition : KNW-244C Phase : NEUTRAL
Limit : FCC 15B-B
Env. / Ins. : (24*C,53%) /ESCS30 Engineer: Alex Huang
EUT : Display Color Monitor M/N:6739-KON A
Power Rating : 120Vac/60Hz
Test Mode : 1600*1200/75Hz /94KHz
S/N:TY0404519

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV)	Limits (dBµV)	Margin (dB)	Remark
1	0.153	0.14	0.20	50.99	51.33	65.86	14.53	QP
2	0.153	0.14	0.20	22.10	22.44	55.86	33.42	AVERAGE
3	0.197	0.10	0.20	48.05	48.35	63.76	15.40	QP
4	0.197	0.10	0.20	21.35	21.65	53.76	32.10	AVERAGE
5	0.271	0.10	0.20	49.89	50.19	61.08	10.89	QP
6	0.271	0.10	0.20	32.77	33.07	51.08	18.01	AVERAGE
7	2.719	0.20	0.40	36.75	37.35	56.00	18.65	QP
8	2.719	0.20	0.40	24.85	25.45	46.00	20.55	AVERAGE
9	4.634	0.22	0.60	37.40	38.22	56.00	17.78	QP
10	4.634	0.22	0.60	25.17	25.99	46.00	20.01	AVERAGE
11	6.439	0.25	0.60	33.32	34.17	60.00	25.83	QP
12	6.439	0.25	0.60	22.06	22.91	50.00	27.09	AVERAGE

Remarks: 1.Emission Level= LISN Factor + Cable Loss + Reading.
2.If the average limit is met when using a quasi-peak detector ,the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

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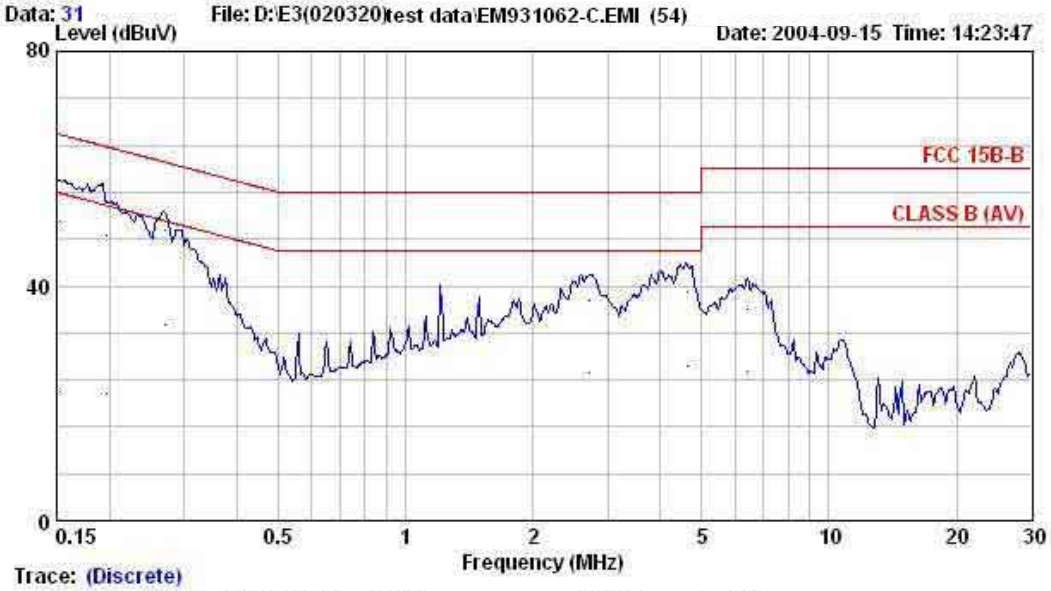


Site : NO.3 Shielded room Data : 31
Condition : KNW-244C Phase : LINE
Limit : FCC 15B-B
Env. / Ins. : (24*C,53%) /ESCS30 Engineer: Alex Huang
EUT : Display Color Monitor M/N:6739-KON A
Power Rating : 120Vac/60Hz
Test Mode : 1600*1200/75Hz /94KHz
S/N:TY0404519

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV)	Limits (dBµV)	Margin (dB)	Remark
1	0.153	0.14	0.20	50.66	51.00	65.86	14.86	QP
2	0.153	0.14	0.20	21.63	21.97	55.86	33.89	AVERAGE
3	0.197	0.10	0.20	48.23	48.53	63.76	15.22	QP
4	0.197	0.10	0.20	21.47	21.77	53.76	31.98	AVERAGE
5	0.271	0.10	0.20	49.19	49.49	61.07	11.58	QP
6	0.271	0.10	0.20	33.10	33.40	51.07	17.67	AVERAGE
7	2.719	0.14	0.40	37.08	37.62	56.00	18.38	QP
8	2.719	0.14	0.40	24.73	25.27	46.00	20.73	AVERAGE
9	4.634	0.23	0.60	38.25	39.08	56.00	16.92	QP
10	4.634	0.23	0.60	25.64	26.47	46.00	19.53	AVERAGE
11	6.439	0.30	0.60	35.19	36.09	60.00	23.91	QP
12	6.439	0.30	0.60	24.62	25.52	50.00	24.48	AVERAGE

Remarks: 1.Emission Level= LISN Factor + Cable Loss + Reading.
2.If the average limit is met when using a quasi-peak detector ,the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

3. RADIATED EMISSION MEASUREMENT

The following test equipment was used during the radiated emission measurement **:**

3.1.1. For 30MHz~1000MHz Frequency (At No. 4 Open Field Test Site)

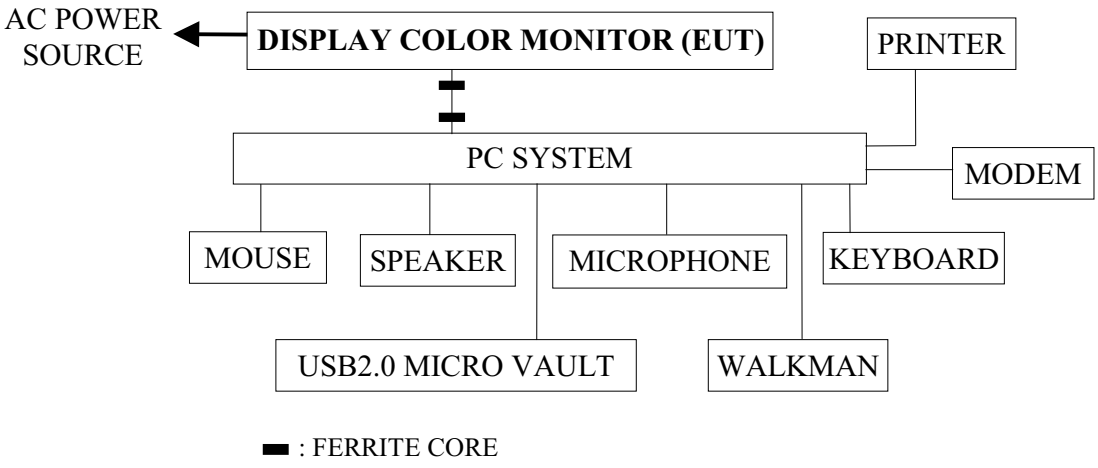
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Test Receiver	R & S	ESVS10	845165/018	Jun. 14, 04’	Jun. 14, 05’
2.	Biconical Antenna	Chase	VBA6106A	1263	Nov. 24, 03’	Nov. 23, 04’
3.	Log Periodic Antenna	Chase	UPA6109	1020	Nov. 24, 03’	Nov. 23, 04’

3.1.2. For 1GHz~2GHz Frequency (At No. 4 Open Field Test Site)

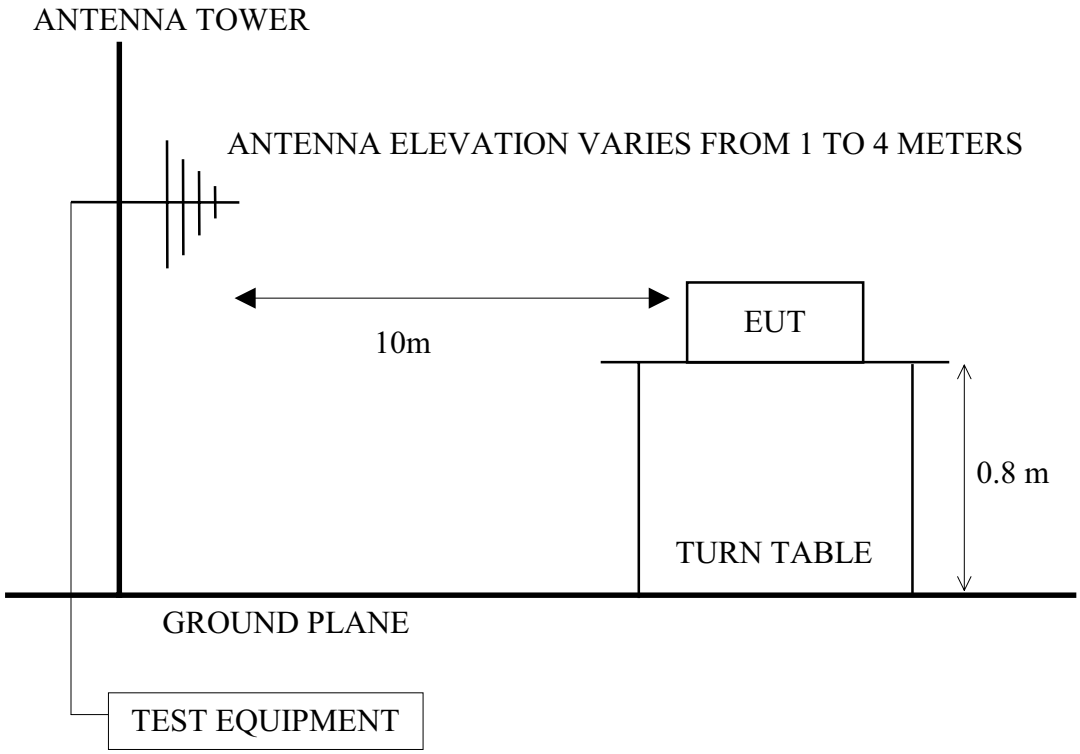
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	HP	8593EM	3826A00272	Jun. 07, 04’	Jun. 07, 05’
2.	Amplifier	HP	8449B	3008A01284	Jul. 02, 04’	Jul. 02, 05’
3.	Horn Antenna	EMCO	3115	9609-4927	Jul. 06, 04’	Jul. 06, 05’

3.2. Block Diagram of Test Setup

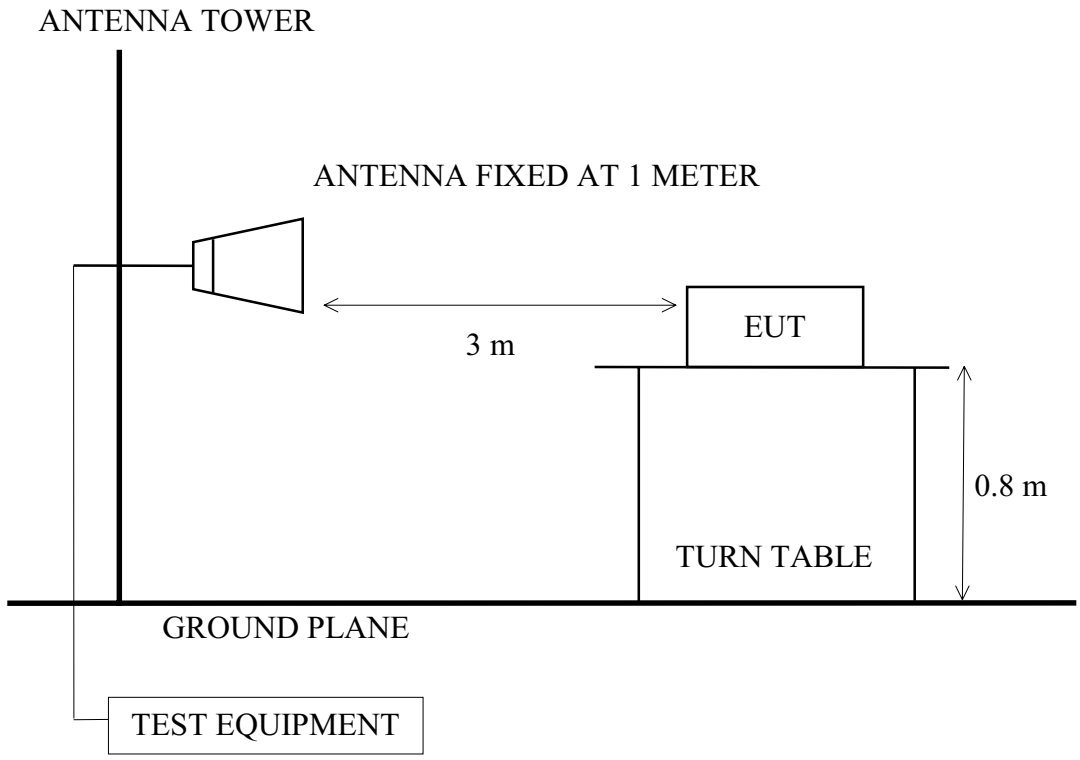
3.2.1. Block Diagram of connection between EUT and simulators



3.2.2. Open Field Test Site (10m) Setup Diagram for 30-1000MHz



3.2.3. Open Field Test Site Setup Diagram (3m) for 1-2GHz



3.3. Radiation Limit (§15.109/CISPR 22, Class B)

All emanations from a class B computing devices or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified below:

FREQUENCY (MHz)	DISTANCE (Meters)	FIELD STRENGTHS LIMITS (dBμV/m)
30 ~ 230	10	30
230 ~ 1000	10	37
1000 ~ 2000	3	54.0 (Average)
1000 ~ 2000	3	74.0 (Peak)

Note： (1) The tighter limit applies at the edge between two frequency bands.
(2) Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the E.U.T.
(3) There is no over 1GHz limits in CISPR 22 standard. Therefor, a FCC limit is used based on CFR 47 Part 15.35 (b) and Part 15.109 (g).
(4) The 3m limit apply relation: L2 = L1(d1/d2)

3.4. EUT's Configuration during Compliance Measurement

The configuration of EUT and its supporting system were same as those used in conducted measurement. Please refer to section 2.4.

3.5. Operating Condition of EUT

Same as conducted measurement which is listed in 2.5., except the test set up replaced by section 3.2.

3.6. Test Procedure

3.6.1. For Frequency Range 30MHz-1000MHz measurement at distance of 10m at No. 4 Open Field Test Site:

The EUT was placed on a turn table which was 0.8 meter above ground. The turn table rotate 360 degrees to determine the position of the maximum emission level. EUT was set 10 away from the receiving antenna which were mounted on a antenna tower. The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated biconical and log periodical antenna) and dipole antenna were used as receiving antenna. Both horizontal and vertical polarization of the antenna were set on measurement. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.4-2001 and CISPR 22 on radiated measurement.

The bandwidth of the R&S Test Receiver ESVS10 was set at 120kHz.

The frequency range from 30MHz to 1000MHz was pre-scanned with a peak detector.

The all final readings from Test Receiver were measured with Quasi-Peak detector.

3.6.2. For Frequency Range 1GHz-2GHz measurement at distance of 3m at No. 4 Open Field Test Site:

The EUT and its simulators were placed on a turn table which was 0.8 meter above ground. The turn table rotated 360 degrees to determine the position of the maximum emission level, EUT was set 3 meters away from the receiving antenna which was mounted on a antenna tower. The antenna was fixed at 1 meter high (maximum emission level receiving position) above the ground.
A calibrated Horn Antenna was used as a receiving antenna. Both horizontal and vertical polarization of the antenna were set on measurement, and both average and peak emission level were recorded form spectrum analyzer. In order to find the maximum emission level, all the interface cables were manipulated according to ANSI C63.4-2001 on radiated measurement.

The resolution bandwidth of Spectrum Analyzer 8593EM was set at 1MHz.

The frequency range from 1GHz to 2GHz was pre-scanned with Peak detector and Average detector.

The all final readings from Spectrum Analyzer were measured with Peak detector and Average detector.

3.7. Radiated Emission Measurement Results

PASSED.
(All emissions not reported below are too low against the prescribed limits.)

3.7.1. For 30MHz~1000MHz frequency range, The EUT (Display Color Monitor, M/N: 6739-K0N A) with flowing testing modes and with AC 120V/60Hz supplying voltage were measured at No. 4 Open Field Test Site and all the test results are attached in next pages. **(※mode for maximum detected emission)**

(Test Date : Sep. 01, 2004 Temperature : 26℃ Humidity : 48%)
(Test Date : Sep. 08, 2004 Temperature : 27℃ Humidity : 51%)
(Test Date : Sep. 10, 2004 Temperature : 28℃ Humidity : 58%)
(Test Date : Sep. 14, 2004 Temperature : 28℃ Humidity : 58%)

The details of test modes are as follows:

Mode	Serial No. /CRT	Resolution/ Frequency	Reference Test Data No.	
			Horizontal	Vertical
1.	TY0404515 (SDI)	640*480/60Hz	# 13.	# 14.
2.		1280*1024/85Hz	# 15.	# 16.
3.		1600*1200/75Hz	# 18.	# 17.
4.	**TY0404520 (CPT)**	640*480/60Hz	# 6.	# 5.
※5.		**1280*1024/85Hz**	**# 3.**	**# 4.**
6.		1600*1200/75Hz	# 1.	# 2.
7.	TY0404519 (LPD)	640*480/60Hz	# 8.	# 7.
8.		1280*1024/85Hz	# 9.	# 10.
9.		1600*1200/75Hz	# 12.	# 11.

3.7.2. For 1-2GHz frequency range, the test mode **[1600*1200/75Hz]** were selected and measured at No. 4 Open Test Site and the test results are attached next pages.

(Test Date : Sep. 14, 2004 Temperature : 28 Humidity : 58%)

(Test Date : Sep. 15, 2004 Temperature : 28 Humidity : 58%)

The details of test modes are as follows:

Mode	Serial No./CRT	Resolution / Frequency		Reference Data No.	
				Horizontal	Vertical
1.	TY0404515 (SDI)	1600*1200/75Hz	Peak	# 21.	# 22.
			Average	# 27.	# 28.
2.	TY0404520 (CPT)	1600*1200/75Hz	Peak	# 24	# 23.
			Average	# 30.	# 29.
3.	TY0404519 (LPD)	1600*1200/75Hz	Peak	# 20.	# 19.
			Average	# 26.	# 25.

[30MHz to 1000MHz Frequency Range Measurement Results]

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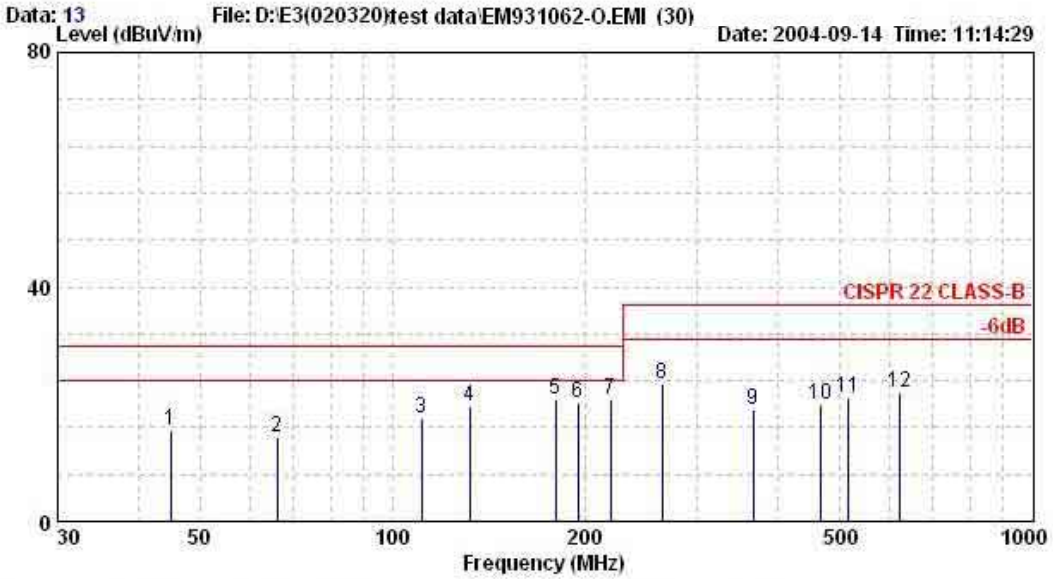

Site no. : NO.4 OPEN SITE Data no. : 13
Dis. / Ant. : 10m 1263/1020(1107) Ant. pol. : HORIZONTAL
Limit : CISPR 22 CLASS-B
Env. / Ins. : 28*C/58% ESVS 10 Engineer : Jingo Lin
EUT : Display Color Monitor M/N:6739-KON A
Power Rating : 120Vac/60Hz
Test Mode : 640*480/60Hz;31KHz
S/N:TY0404515

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	45.021	17.55	0.70	-2.77	15.48	30.00	14.52	
2	66.031	12.40	0.87	1.16	14.43	30.00	15.57	
3	111.052	18.17	1.11	-1.61	17.67	30.00	12.34	
4	132.062	19.74	1.20	-1.23	19.71	30.00	10.29	
5	180.084	20.91	1.48	-1.49	20.90	30.00	9.10	
6	195.091	20.77	1.68	-2.26	20.19	30.00	9.81	
7	219.102	21.36	1.52	-2.08	20.80	30.00	9.20	
8	264.123	22.84	1.72	-1.12	23.44	37.00	13.56	
9	366.171	15.47	2.11	1.50	19.08	37.00	17.92	
10	468.218	17.81	2.41	-0.37	19.84	37.00	17.16	
11	516.241	19.02	2.46	-0.36	21.12	37.00	15.88	
12	621.290	20.13	2.81	-0.82	22.12	37.00	14.88	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

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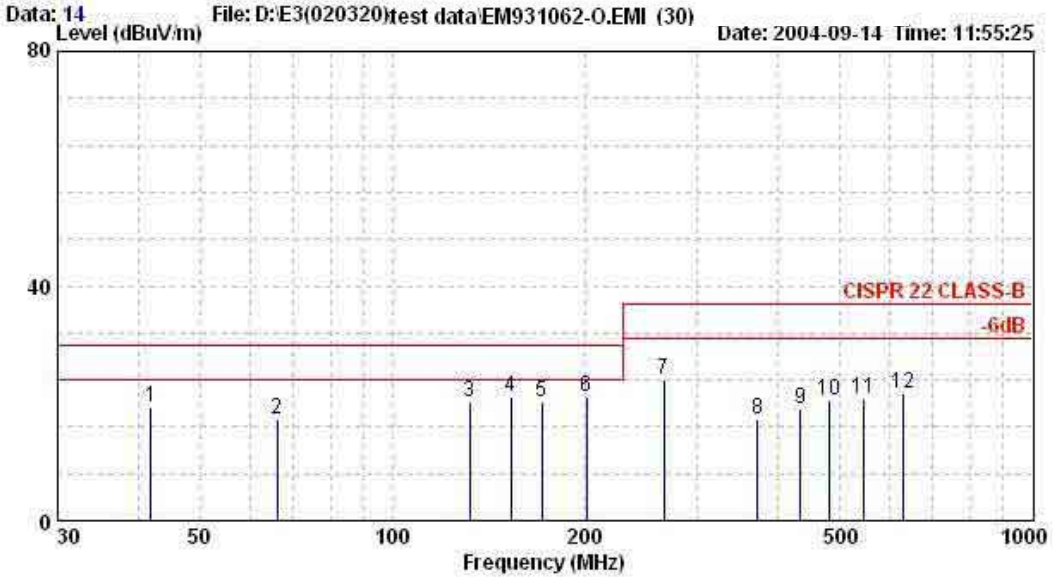

Site no. : NO.4 OPEN SITE Data no. : 14
Dis. / Ant. : 10m 1263/1020(1107) Ant. pol. : VERTICAL
Limit : CISPR 22 CLASS-B
Env. / Ins. : 28*C/58% ESVS 10 Engineer : Jingo Lin
EUT : Display Color Monitor M/N:6739-KON A
Power Rating : 120Vac/60Hz
Test Mode : 640*480/60Hz;31KHz
S/N:TY0404515

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	42.020	19.24	0.68	-0.48	19.45	30.00	10.55	
2	66.031	12.29	0.87	4.15	17.32	30.00	12.68	
3	132.062	17.37	1.20	1.56	20.12	30.00	9.88	
4	153.071	21.07	1.35	-1.26	21.16	30.00	8.84	
5	171.080	20.11	1.37	-1.38	20.10	30.00	9.90	
6	201.094	21.56	1.61	-1.97	21.20	30.00	8.80	
7	265.620	22.85	1.72	-0.58	23.98	37.00	13.02	
8	372.174	15.68	2.12	-0.48	17.32	37.00	19.68	
9	435.203	17.20	2.31	-0.36	19.15	37.00	17.85	
10	483.225	18.46	2.42	-0.44	20.44	37.00	16.56	
11	546.255	18.76	2.53	-0.49	20.80	37.00	16.20	
12	630.294	19.67	2.84	-0.81	21.70	37.00	15.30	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

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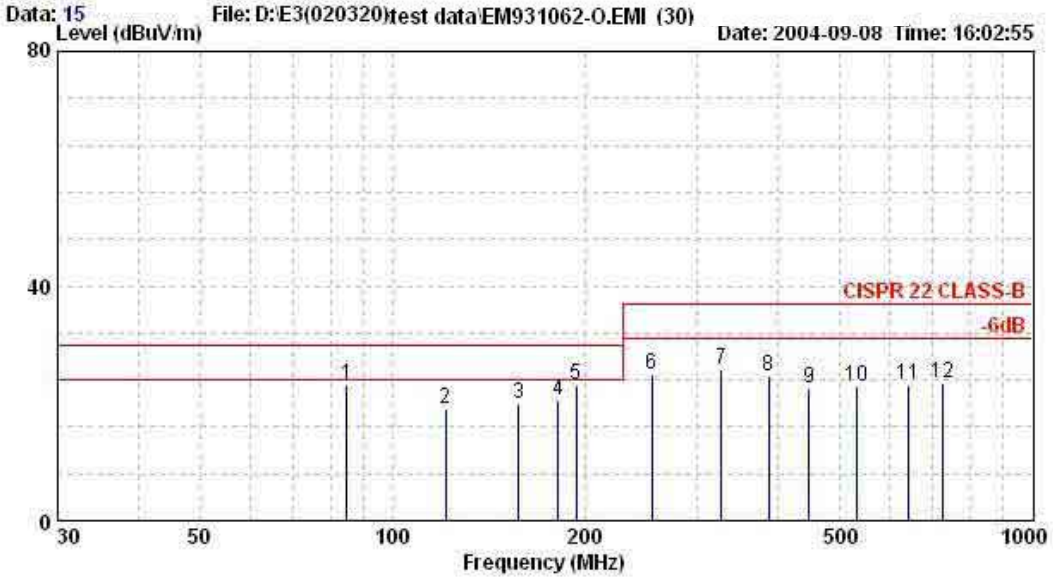

Site no. : NO.4 OPEN SITE Data no. : 15
Dis. / Ant. : 10m 1263/1020(1107) Ant. pol. : HORIZONTAL
Limit : CISPR 22 CLASS-B
Env. / Ins. : (27*C/51%)/ESVS 10 Engineer : Jingo Lin
EUT : Display Color Monitor M/N:6739-KON A
Power Rating : 120Vac/60Hz
Test Mode : 1280*1024/85Hz 91KHz
S/N:TY0404515

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	84.860	15.35	0.98	6.75	23.08	30.00	6.92	
2	121.210	18.72	1.12	-0.74	19.10	30.00	10.90	
3	157.561	19.91	1.35	-1.34	19.92	30.00	10.08	
4	181.794	20.69	1.51	-1.71	20.49	30.00	9.51	
5	193.911	20.64	1.70	0.85	23.19	30.00	6.81	
6	254.495	22.79	1.69	0.29	24.77	37.00	12.23	
7	327.196	14.40	1.97	9.50	25.88	37.00	11.12	
8	387.780	16.11	2.14	6.28	24.54	37.00	12.46	
9	448.364	16.83	2.35	3.49	22.67	37.00	14.33	
10	533.181	19.05	2.50	1.34	22.89	37.00	14.11	
11	642.233	20.18	2.87	0.02	23.07	37.00	13.93	
12	727.050	20.33	3.12	0.09	23.54	37.00	13.46	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

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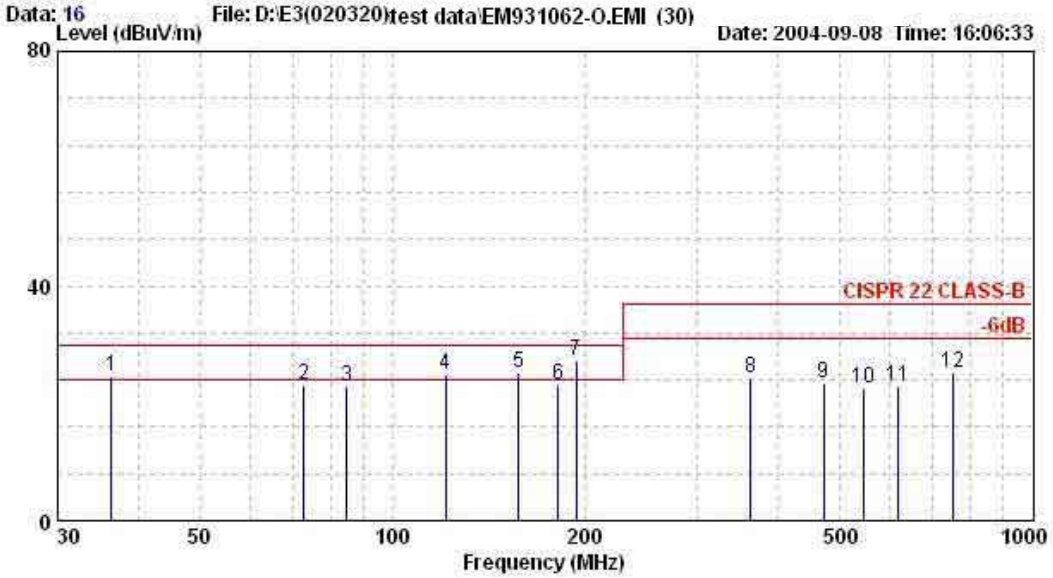

Site no. : NO.4 OPEN SITE Data no. : 16
Dis. / Ant. : 10m 1263/1020(1107) Ant. pol. : VERTICAL
Limit : CISPR 22 CLASS-B
Env. / Ins. : (27*C/51%)/ESVS 10 Engineer : Jingo Lin
EUT : Display Color Monitor M/N:6739-KON A
Power Rating : 120Vac/60Hz
Test Mode : 1280*1024/85Hz 91KHz
S/N:TY0404515

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	36.379	20.62	0.61	3.31	24.54	30.00	5.46	
2	72.703	12.06	0.89	10.13	23.09	30.00	6.91	
3	84.863	14.20	0.98	7.73	22.91	30.00	7.09	
4	121.170	16.86	1.12	6.94	24.92	30.00	5.08	
5	157.534	20.63	1.35	3.32	25.30	30.00	4.70	
6	181.801	21.26	1.51	0.25	23.02	30.00	6.98	
7	193.913	22.11	1.70	3.58	27.39	30.00	2.61	
8	363.584	15.80	2.11	6.28	24.19	37.00	12.81	
9	472.636	18.64	2.41	2.42	23.47	37.00	13.53	
10	545.336	18.76	2.53	1.27	22.56	37.00	14.44	
11	618.037	19.84	2.80	0.14	22.78	37.00	14.22	
12	751.322	22.25	3.18	-0.09	25.34	37.00	11.66	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

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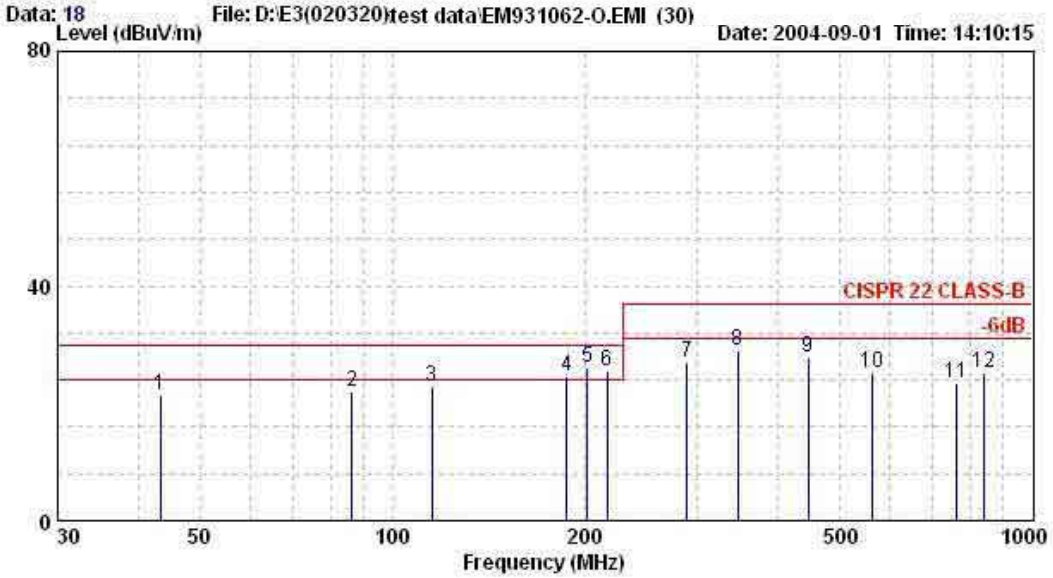

Site no. : NO.4 OPEN SITE Data no. : 18
Dis. / Ant. : 10m 1263/1020(1107) Ant. pol. : HORIZONTAL
Limit : CISPR 22 CLASS-B
Env. / Ins. : (26*C/48%)/ESVS 10 Engineer : Kent Sun
EUT : Display Color Monitor M/N:6739-KON A
Power Rating : 120Vac/60Hz
Test Mode : 1600*1200/75Hz 94KHz
S/N:TY0404515

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	43.402	18.04	0.69	2.60	21.33	30.00	8.67	
2	86.616	15.49	0.99	5.40	21.88	30.00	8.12	
3	115.425	18.20	1.10	3.60	22.91	30.00	7.09	
4	187.640	20.53	1.63	2.60	24.75	30.00	5.25	
5	202.046	20.71	1.60	3.80	26.11	30.00	3.89	
6	216.450	21.38	1.51	2.60	25.49	30.00	4.51	
7	288.570	24.11	1.76	1.20	27.07	37.00	9.93	
8	346.375	14.64	2.10	12.20	28.94	37.00	8.06	
9	447.395	16.83	2.34	8.60	27.77	37.00	9.23	
10	563.248	20.01	2.57	2.60	25.19	37.00	11.81	
11	763.265	22.74	3.21	-2.40	23.55	37.00	13.45	
12	842.156	24.67	3.36	-2.80	25.23	37.00	11.77	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

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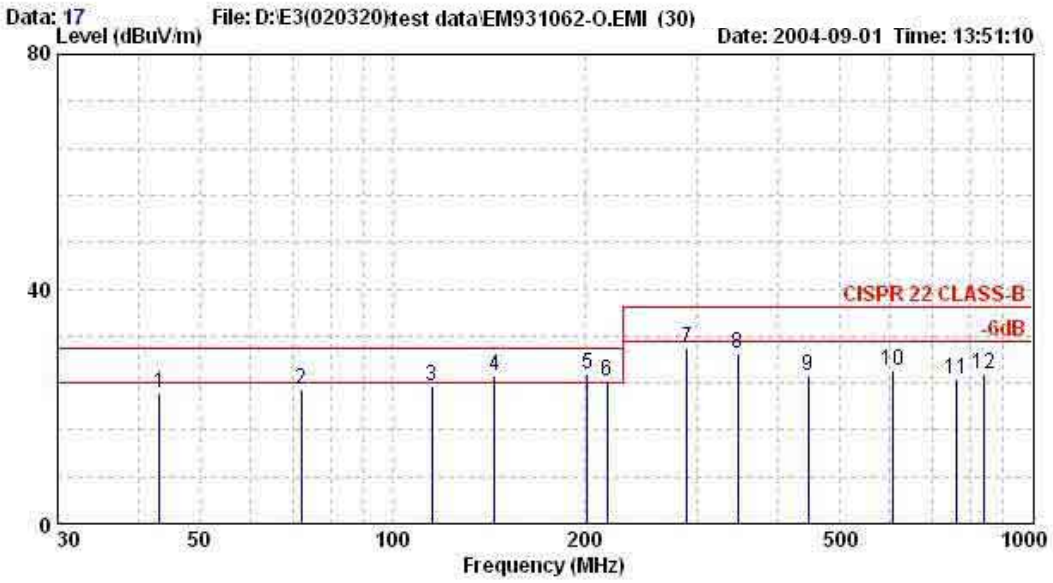

Site no. : NO.4 OPEN SITE Data no. : 17
Dis. / Ant. : 10m 1263/1020(1107) Ant. pol. : VERTICAL
Limit : CISPR 22 CLASS-B
Env. / Ins. : (26*C/48%)/ESVS 10 Engineer : Kent Sun
EUT : Display Color Monitor M/N:6739-KON A
Power Rating : 120Vac/60Hz
Test Mode : 1600*1200/75Hz 94KHz
S/N:TY0404515

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	43.307	18.55	0.69	3.17	22.41	30.00	7.59	
2	72.116	11.84	0.89	10.24	22.98	30.00	7.02	
3	115.429	16.86	1.10	5.54	23.51	30.00	6.49	
4	144.331	20.46	1.35	3.33	25.13	30.00	4.87	
5	202.047	21.56	1.60	2.26	25.41	30.00	4.59	
6	216.451	22.56	1.51	0.32	24.39	30.00	5.61	
7	288.665	24.55	1.76	3.66	29.97	37.00	7.03	
8	346.357	14.42	2.10	12.60	29.12	37.00	7.88	
9	447.395	17.37	2.34	5.60	25.31	37.00	11.69	
10	606.135	19.86	2.75	3.40	26.01	37.00	10.99	
11	763.265	22.74	3.21	-1.40	24.55	37.00	12.45	
12	842.156	24.05	3.36	-1.80	25.61	37.00	11.39	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.