



Test Report

Compliance with Industry Canada Interference-Causing
Equipment Standard ICES-003

Product Name : LCD TV
Basic Model No. : Z47LC6DF-UN, Z47LC6DF
Multi Model No. : Z47LCD4F, Z47LCD4F-UN, 47LC6DF, 47LC6DF-UN,
47LG20, 47LG20-UA
FCC ID : BEJZ47LC6DFUN

Applicant : LG Electronics USA

Address : 1000 Sylvan Avenue Englewood Cliffs, New Jersey
United States 07632

Date of Receipt : 2008/04/11
Issued Date : 2008/08/12
Report No. : 084211R-ITUSP02V02
Reference Number : RL-8452
Version : V5.0

The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration of the equipment and evaluated measurement uncertainty herein.

This report must not be used to claim product endorsement by TAF, NVLAP, NIST or any agency of the Government.

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Test Report Certification

Issued Date : 2008/08/12


Report No. : 084211R-ITUSP02V02



Product Name : LCD TV
Applicant : LG Electronics USA
Address : 1000 Sylvan Avenue Englewood Cliffs, New Jersey
United States 07632
Manufacturer : Qisda Corporation
Basic Model No. : Z47LC6DF-UN, Z47LC6DF
Multi Model No. : Z47LCD4F, Z47LCD4F-UN, 47LC6DF, 47LC6DF-UN,
47LG20, 47LG20-UA
Rated Voltage : AC 120 V / 60 Hz
EUT Voltage : AC 120 V / 60 Hz
Trade Name : Zenith, LG
Applicable Standard : FCC CFR Title 47 Part 15 Subpart B: 2007 Class B
CISPR 22: 2005, ANSI C63.4: 2003,
ICES-003 Issue 4: 2004 Class B
Test Result : Complied
Performed Location : Quietek Corporation (Linkou Laboratory)
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Laboratory Information

We , **Quietek Corporation**, are an independent EMC and safety consultancy that was established the whole facility in our laboratories. The test facility has been accredited/accepted (audited or listed) by the following related bodies in compliance with ISO 17025, EN 45001 and specified testing scopes:

Taiwan R.O.C.	:	BSMI, NCC, TAF
Germany	:	TUV Rheinland
Norway	:	Nemko, DNV
USA	:	FCC, NVLAP
Japan	:	VCCI

The related certificate for our laboratories about the test site and management system can be downloaded from Quietek Corporation’s Web Site : <http://tw.quietek.com/modules/enterprise/services.php?item=100>
The address and introduction of Quietek Corporation’s laboratories can be founded in our Web site : <http://www.quietek.com/>

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TABLE OF CONTENTS

Description	Page
1. General Information	5
1.1. EUT Description.....	5
1.2. Mode of Operation	6
1.3. Tested System Details	7
1.4. Configuration of Tested System	8
1.5. EUT Exercise Software.....	9
2. Technical Test	10
2.1. Summary of Test Result.....	10
2.2. List of Test Equipment	11
2.3. Measurement Uncertainty.....	12
2.4. Test Environment.....	13
3. Conducted Emission	14
3.1. Test Setup.....	14
3.2. Limit.....	14
3.3. Test Procedure	15
3.4. Test Result.....	16
3.5. Test Photograph	28
4. Radiated Emission.....	30
4.1. Test Setup.....	30
4.2. Limit.....	31
4.3. Test Procedure	32
4.4. Test Result.....	33
4.5. Test Photograph	45
5. Attachment.....	48
EUT Photograph.....	48

1. General Information

1.1. EUT Description

Product Name	LCD TV
Trade Name	Zenith, LG
Basic Model No.	Z47LC6DF-UN, Z47LC6DF
Multi Model No.	Z47LCD4F, Z47LCD4F-UN, 47LC6DF, 47LC6DF-UN, 47LG20, 47LG20-UA

Component	
Panel	LG.PHILIPS / LC470WUN

Note:

1. The verification report for TV mode would be issued by LG Electronics USA.
2. The EUT is including eight models for different marketing requirement.

Brand	Inch	Market	Model Name	Factory
				Model Name
Zenith	47	US	Z47LC6DF	Z47LC6DF-UN
Zenith	47	Canada	Z47LCD4F	Z47LCD4F-UN
LG	47	Mexico	47LC6DF	47LC6DF-UN
LG	47	US	47LG20	47LG20-UN

1.2. Mode of Operation

QuieTek has verified the construction and function in typical operation. All the test modes were carried out with the EUT in normal operation, which was shown in this test report and defined as:

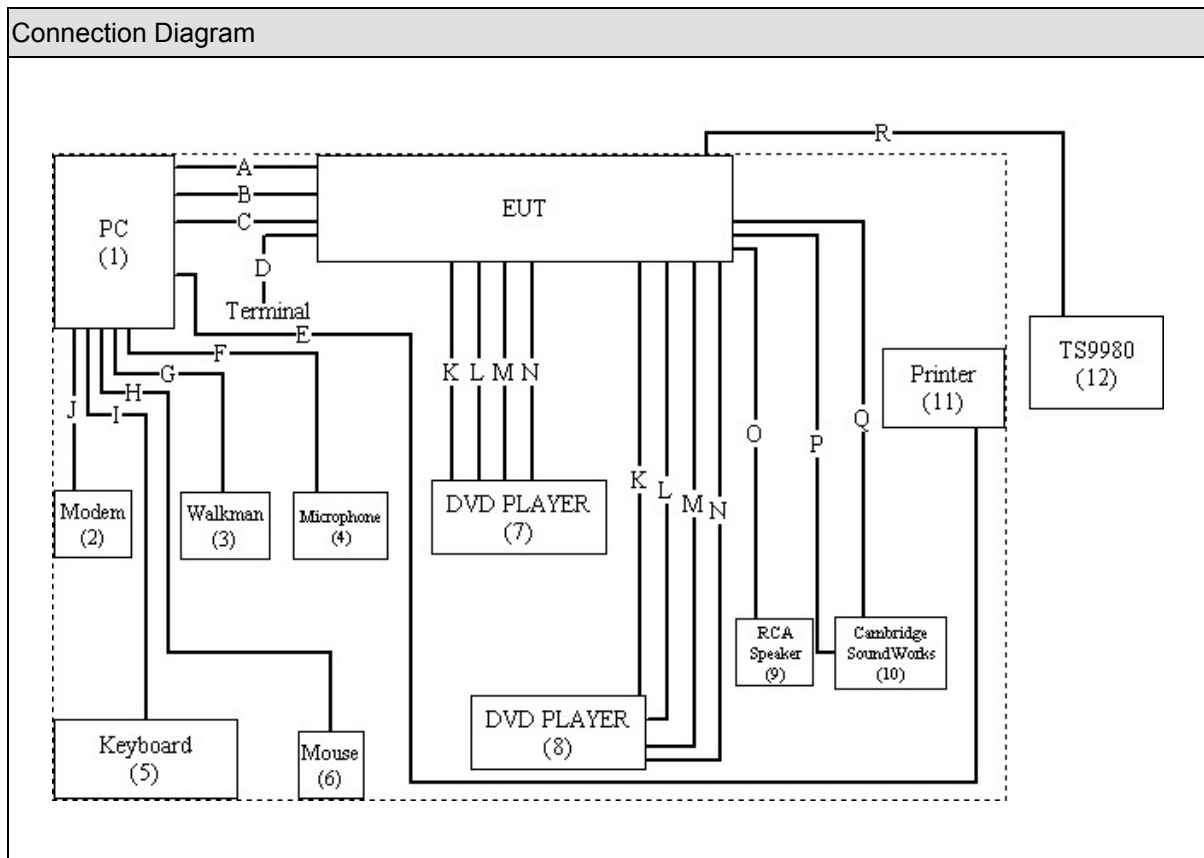
Pre-Test Mode	
Mode 1: HDMI to DVI (1920*1080/60Hz)	
Mode 2: HDMI2	
Mode 3: HDMI3	
Mode 4: D-SUB (1920*1080/60Hz)	
Mode 5: YCbCr 1	
Mode 6: YCbCr 2	
Mode 7: S-Video (AV 1)	
Mode 8: Video (AV 1)	
Mode 9: S-Video (AV 2)	
Mode 10: Video (AV 2)	
Mode 11: ATSC	
Final Test Mode	
Emission	Mode 1: HDMI to DVI (1920*1080/60Hz) Mode 4: D-SUB (1920*1080/60Hz)

1.3. Tested System Details

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

Product	Manufacturer	Model No.	Serial No.	Power Cord
1 PC	COMPAQ	Evo D310	SG30801048	Non-Shielded, 1.8m
2 Modem	ACEEX	DM-1414	0102027553	Non-Shielded, 1.8m
3 Walkman	AIWA	HS-TA164	N/A	N/A
4 Microphone	Yi Sheng	S-124	N/A	N/A
5 Keyboard	Logitech	Y-SM46	867404-0121	Non-Shielded, 1.6m
6 Mouse	HP	M-S69	N/A	N/A
7 DVD PLAYER	Pioneer	DV-S969Avi	EAMP004349LW	Non-Shielded, 1.6m
8 DVD PLAYER	Panasonic	DVD-S97	VC6GG001022R	Non-Shielded, 1.6m
9 RCA Speaker	SANYO	OTTO-301A	JA03244040	Non-Shielded, 1.5m
10 Cambridge SoundWorks	Creative	S80130	AM01303200000941	Non-Shielded, 1.5m
11 Printer	EPSON	StyLus C63	FAPY094321	Non-Shielded, 1.6m
12 TS9980	R&S	N/A	N/A	Non-Shielded, 1.8m

1.4. Configuration of Tested System



Signal Cable Type	Signal cable Description
A	HDMI to DVI Cable Shielded, 1.8m, with two ferrite cores bonded.
B	D-SUB Cable Shielded, 1.8m, with two ferrite cores bonded.
C	Audio Cable Non-Shielded, 1.6m
D	Signal Cable Non-Shielded, 1.6m
E	Printer Cable Shielded, 1.2m
F	Microphone Cable Non-Shielded, 1.6m
G	Audio Cable Non-Shielded, 1.6m
H	Mouse Cable Shielded, 1.8m
I	Keyboard Cable Shielded, 1.8m
J	RS232 Cable Shielded, 1.5m
K	HDMI Cable Non-Shielded, 1.5m, two PCS
L	YPbPr (+AV 15 Line) Cable Non-Shielded, 1.5m, two PCS
M	S-Video Cable Non-Shielded, 1.5m, two PCS
N	AV (3 Line) Cable Non-Shielded, 1.5m, two PCS
O	RCA (2 Line) Cable Non-Shielded, 1.5m
P	Fiber Cable Non-Shielded, 1.5m
Q	Coaxial Cable Shielded, 1.8m
R	Coaxial Cable Shielded, 3.0m

1.5. EUT Exercise Software

1	Setup the EUT and simulators as shown on 1.4.
2	Turn on the power of all equipment.
3	Boot the PC from Hard Disk to operation system, setup to appropriated video resolution.
4	PC will display “video figure” on EUT.
5	Adjust the brightness and contrast to the maximum (middle) position to get the worst case reading.
6	According to user manual, change display resolution (H-sync, V-sync, interlaced or Non-interlaced) to find the worst case mode.
7	All the peripheral devices will be accessed during the test.
8	Repeat the above procedure (4) to (7).

2. Technical Test

2.1. Summary of Test Result

- No deviations from the test standards
- Deviations from the test standards as below description:

Emission			
Performed Item	Normative References	Test Performed	Deviation
Conducted Emission	FCC CFR Title 47 Part 15 Subpart B: 2007 Class B, ANSI C63.4: 2003	Yes	No
Radiated Emission	FCC CFR Title 47 Part 15 Subpart B: 2007 Class B, ANSI C63.4: 2003	Yes	No

2.2. List of Test Equipment

Conducted Emission / SR1

Instrument	Manufacturer	Type No.	Serial No	Cal. Date
EMI Test Receiver	R&S	ESCS 30	100366	2007/10/18
LISN	R&S	ENV4200	833209/007	2008/07/13
LISN	R&S	ENV216	100085	2008/02/14
Pulse Limiter	R&S	ESH3-Z2	357.88.10.52	2007/09/04

Radiated Emission / Site3

Instrument	Manufacturer	Type No.	Serial No	Cal. Date
Bilog Antenna	Schaffner Chase	CBL6112B	2704	2007/09/15
Broadband Horn Antenna	Schwarzbeck	BBHA9170	208	2008/07/25
EMI Test Receiver	R&S	ESCS 30	838251/001	2008/03/22
Horn Antenna	Schwarzbeck	BBHA9120D	305	2008/08/10
Pre-Amplifier	QTK			2008/01/03
Spectrum Analyzer	Advantest	R3162	101102468	2007/10/24
EMI Test Receiver	R&S	ESI 26	838786/004	2008/05/25
Pre-Amplifier	MITEQ	QMF-4D-18040 0-45-6P	925974	2008/01/03

2.3. Measurement Uncertainty

Conducted Emission

The measurement uncertainty is evaluated as ± 2.26 dB.

Radiated Emission

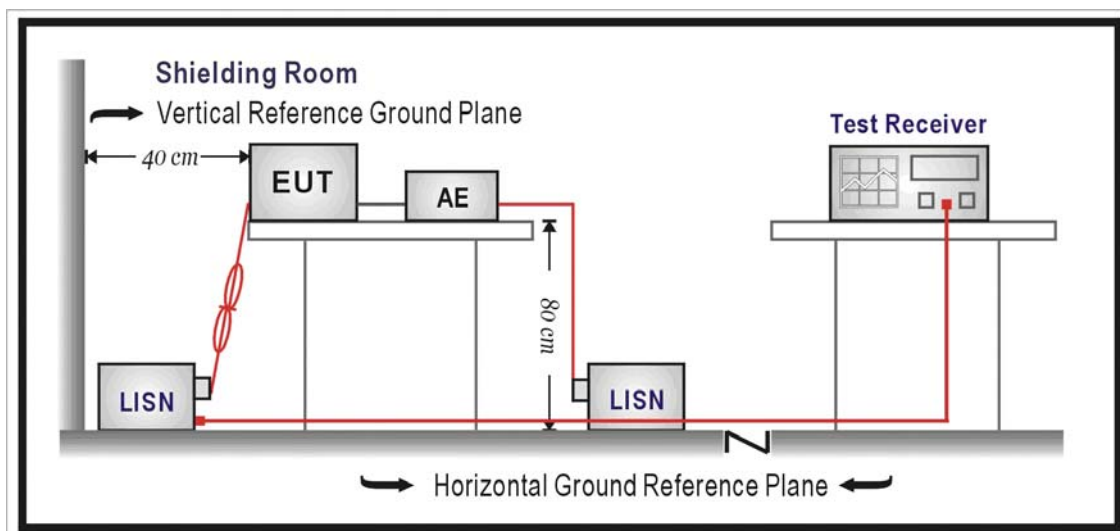
The measurement uncertainty is evaluated as ± 3.19 dB.

2.4. Test Environment

Performed Item	Items	Required	Actual
Conducted Emission	Temperature (°C)	15-35	25
	Humidity (%RH)	25-75	50
	Barometric pressure (mbar)	860-1060	950-1000
Radiated Emission	Temperature (°C)	15-35	25
	Humidity (%RH)	25-75	50
	Barometric pressure (mbar)	860-1060	950-1000

3. Conducted Emission

3.1. Test Setup



3.2. Limit

Limits		
Frequency (MHz)	QP (dBuV)	AV (dBuV)
0.15 - 0.50	66 - 56	56 - 46
0.50-5.0	56	46
5.0 - 30	60	50

Remarks: In the above table, the tighter limit applies at the band edges.

3.3. Test Procedure

The EUT was setup and tested according to ANSI C63.4, 2003.

The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface. The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs.)

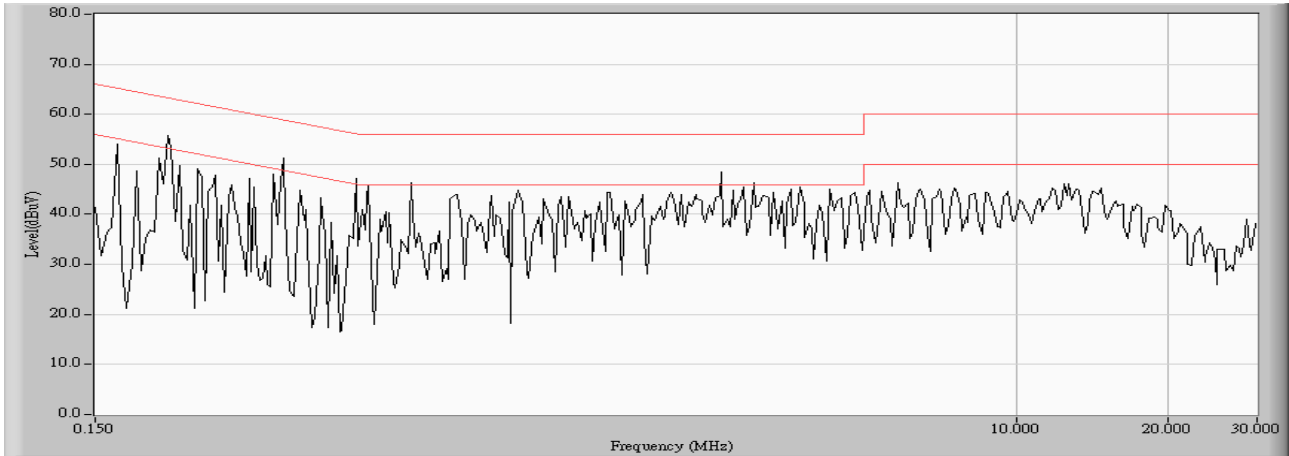
Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.

The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.

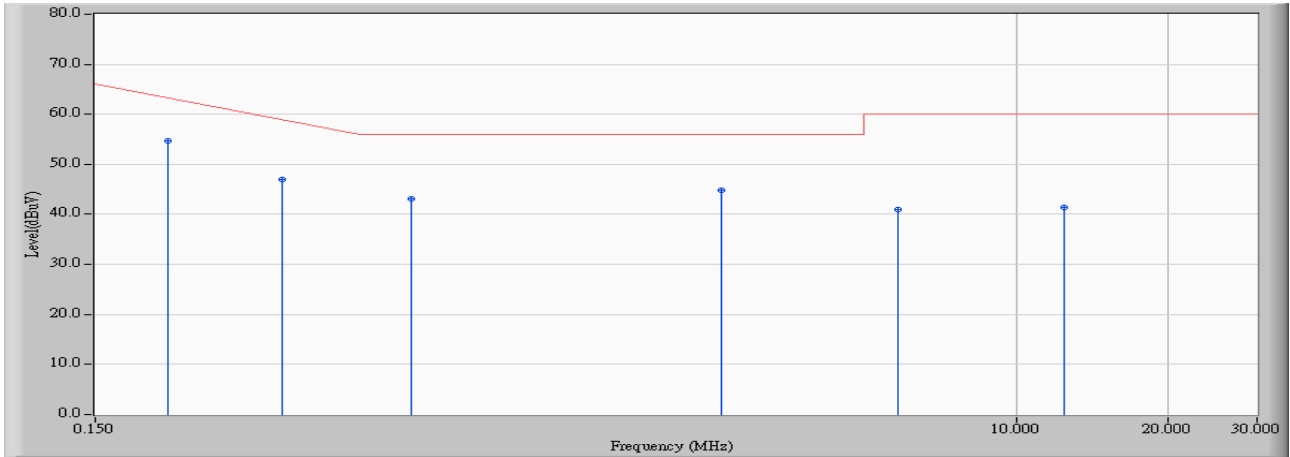
Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

3.4. Test Result

Site : SR-1	Time : 2008/05/26 - 22:42
Limit : CISPR_B_00M_QP	Margin : 10
EUT : LCD TV	Probe : LISN-L(023) - Line1
Power : AC 120V/60Hz	Note : Mode 1



Site : SR-1	Time : 2008/05/26 - 22:50
Limit : CISPR_B_00M_QP	Margin : 0
EUT : LCD TV	Probe : LISN-L(023) - Line1
Power : AC 120V/60Hz	Note : Mode 1

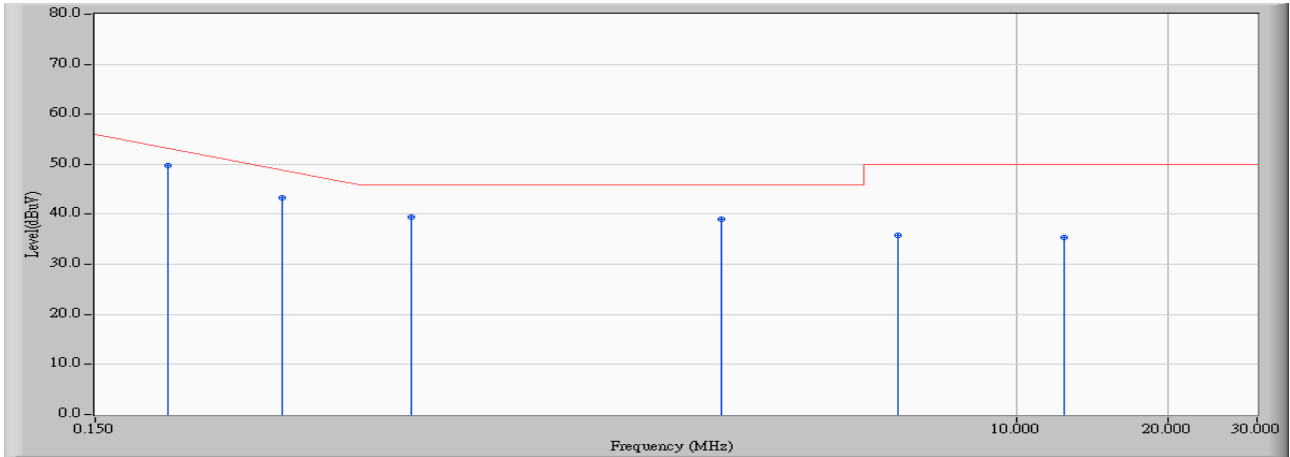


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.209	0.588	54.210	54.798	-9.516	64.314	QUASIPeAK
2		0.353	0.300	46.600	46.900	-13.300	60.200	QUASIPeAK
3		0.634	0.302	42.760	43.062	-12.938	56.000	QUASIPeAK
4		2.599	0.360	44.390	44.750	-11.250	56.000	QUASIPeAK
5		5.838	0.460	40.530	40.990	-19.010	60.000	QUASIPeAK
6		12.443	0.818	40.470	41.288	-18.712	60.000	QUASIPeAK

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : SR-1	Time : 2008/05/26 - 22:50
Limit : CISPR_B_00M_AV	Margin : 0
EUT : LCD TV	Probe : LISN-L(023) - Line1
Power : AC 120V/60Hz	Note : Mode 1

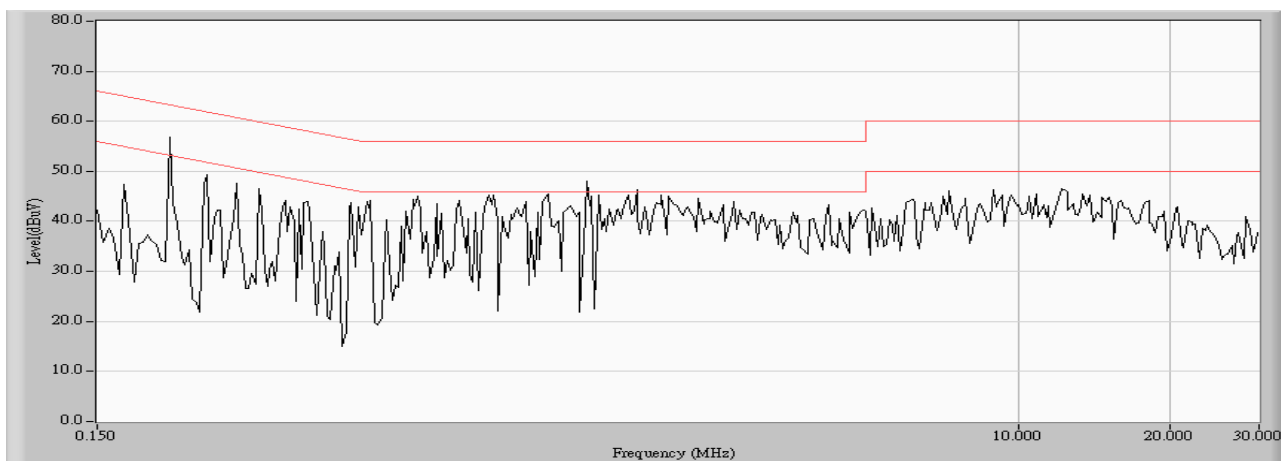


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.209	0.588	49.270	49.858	-4.456	54.314	AVERAGE
2		0.353	0.300	42.950	43.250	-6.950	50.200	AVERAGE
3		0.634	0.302	39.070	39.372	-6.628	46.000	AVERAGE
4		2.599	0.360	38.770	39.130	-6.870	46.000	AVERAGE
5		5.838	0.460	35.290	35.750	-14.250	50.000	AVERAGE
6		12.443	0.818	34.530	35.348	-14.652	50.000	AVERAGE

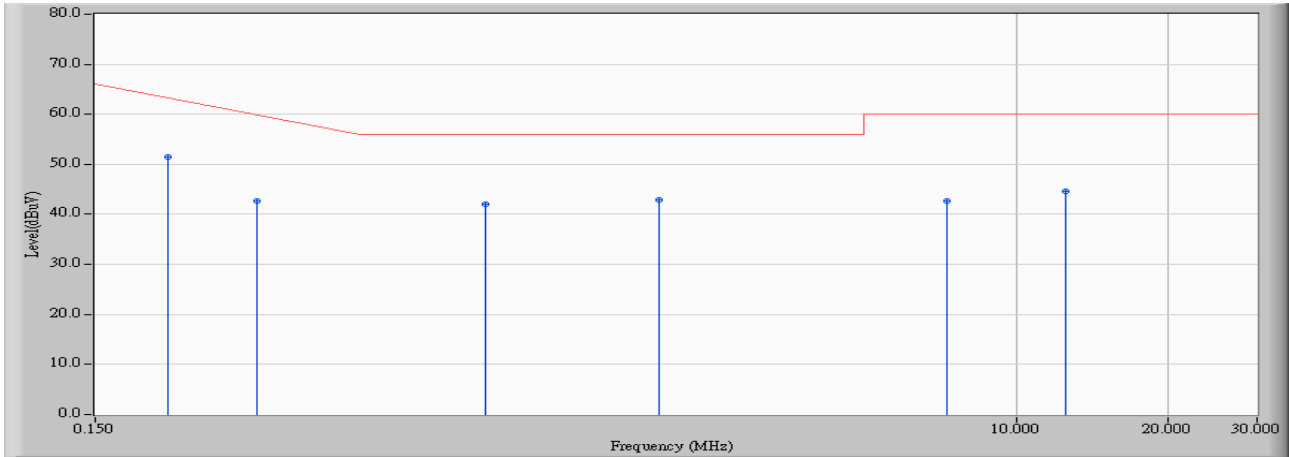
Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : SR-1	Time : 2008/05/26 - 22:51
Limit : CISPR_B_00M_QP	Margin : 10
EUT : LCD TV	Probe : LISN-N(023) - Line2
Power : AC 120V/60Hz	Note : Mode 1



Site : SR-1	Time : 2008/05/26 - 22:52
Limit : CISPR_B_00M_QP	Margin : 0
EUT : LCD TV	Probe : LISN-N(023) - Line2
Power : AC 120V/60Hz	Note : Mode 1

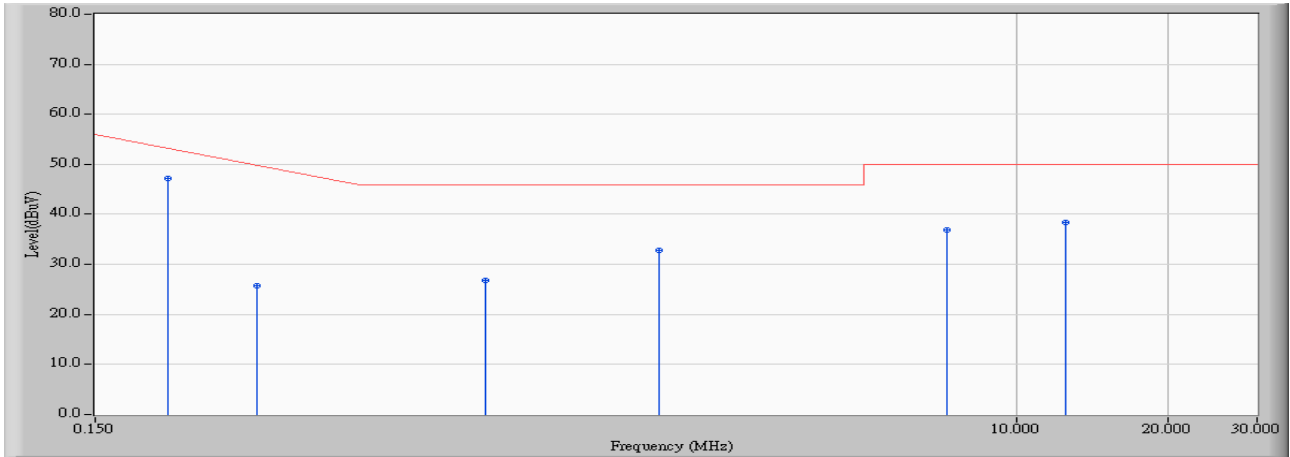


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.209	0.300	51.120	51.420	-12.894	64.314	QUASIPeAK
2		0.314	0.300	42.370	42.670	-18.644	61.314	QUASIPeAK
3		0.892	0.320	41.740	42.060	-13.940	56.000	QUASIPeAK
4		1.962	0.350	42.490	42.840	-13.160	56.000	QUASIPeAK
5		7.306	0.450	42.270	42.720	-17.280	60.000	QUASIPeAK
6		12.509	0.724	43.850	44.574	-15.426	60.000	QUASIPeAK

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : SR-1	Time : 2008/05/26 - 22:52
Limit : CISPR_B_00M_AV	Margin : 0
EUT : LCD TV	Probe : LISN-N(023) - Line2
Power : AC 120V/60Hz	Note : Mode 1

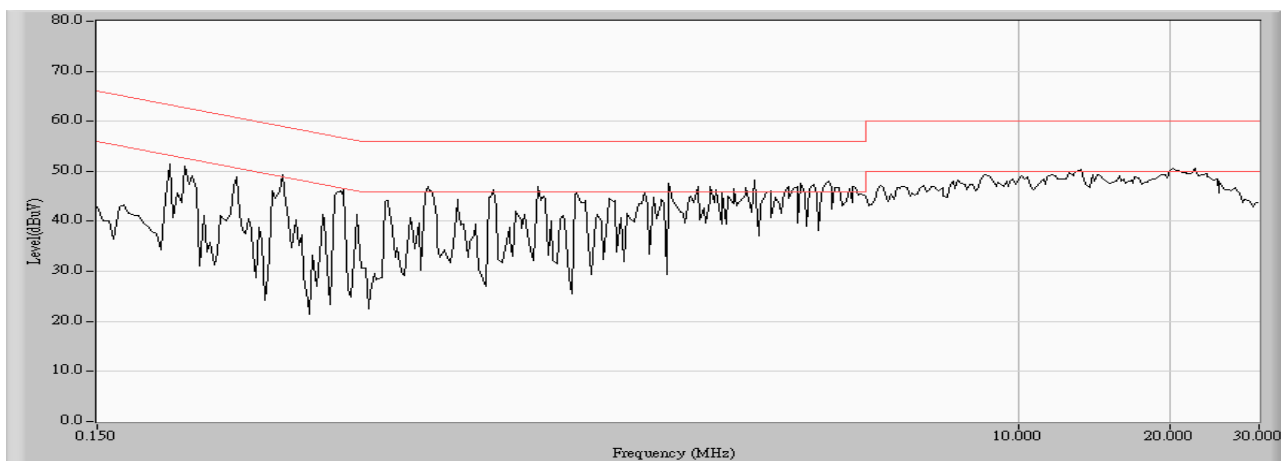


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.209	0.300	46.920	47.220	-7.094	54.314	AVERAGE
2		0.314	0.300	25.420	25.720	-25.594	51.314	AVERAGE
3		0.892	0.320	26.480	26.800	-19.200	46.000	AVERAGE
4		1.962	0.350	32.530	32.880	-13.120	46.000	AVERAGE
5		7.306	0.450	36.360	36.810	-13.190	50.000	AVERAGE
6		12.509	0.724	37.590	38.314	-11.686	50.000	AVERAGE

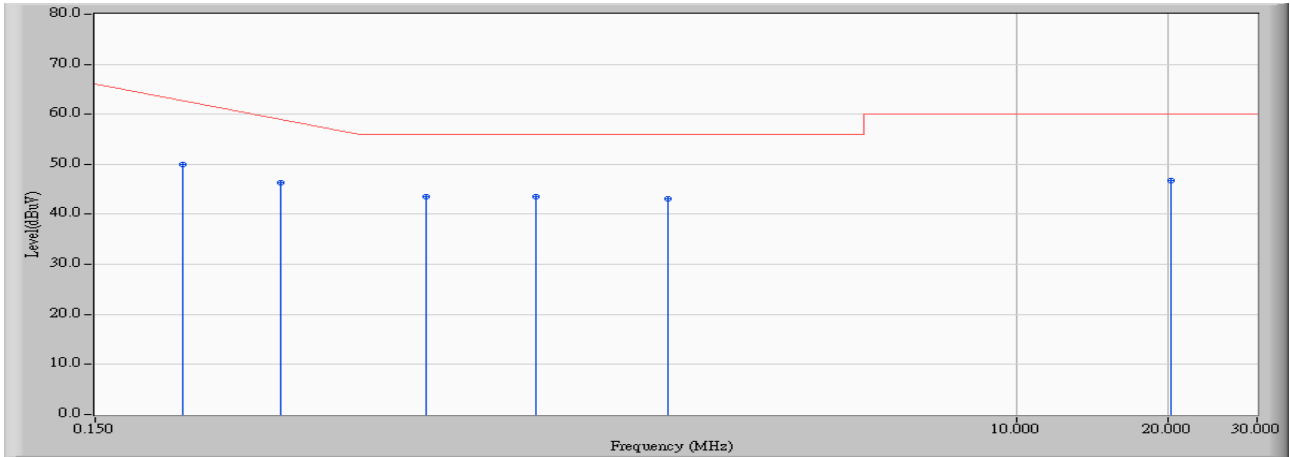
Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : SR-1	Time : 2008/05/24 - 05:20
Limit : CISPR_B_00M_QP	Margin : 10
EUT : LCD TV	Probe : LISN-L(023) - Line1
Power : AC 120V/60Hz	Note : Mode 4



Site : SR-1	Time : 2008/05/24 - 05:21
Limit : CISPR_B_00M_QP	Margin : 0
EUT : LCD TV	Probe : LISN-L(023) - Line1
Power : AC 120V/60Hz	Note : Mode 4

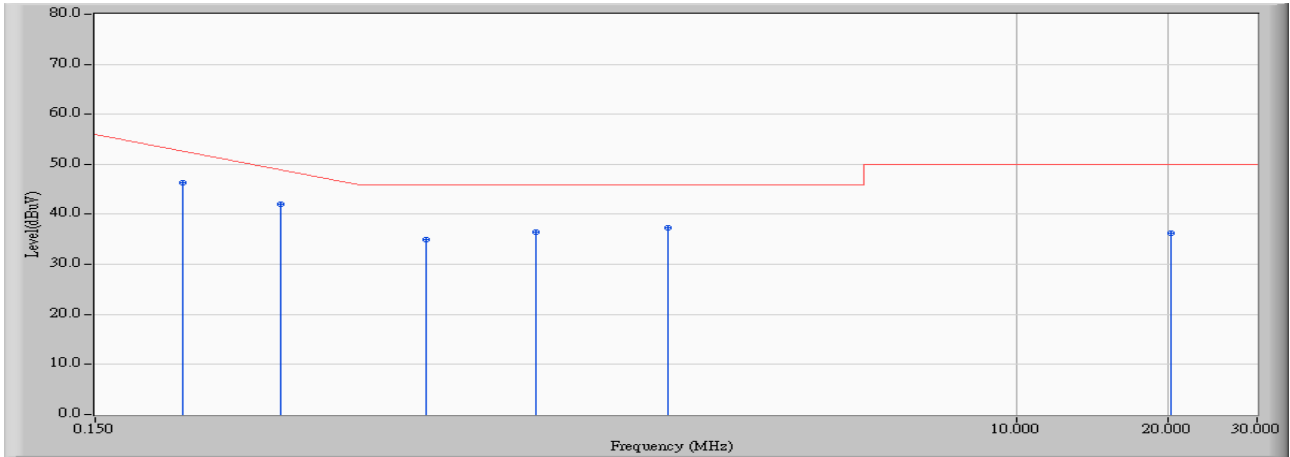


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.224	0.476	49.580	50.056	-13.830	63.886	QUASIPeAK
2		0.349	0.300	45.930	46.230	-14.084	60.314	QUASIPeAK
3	*	0.677	0.310	43.310	43.620	-12.380	56.000	QUASIPeAK
4		1.119	0.320	43.210	43.530	-12.470	56.000	QUASIPeAK
5		2.037	0.340	42.710	43.050	-12.950	56.000	QUASIPeAK
6		20.302	1.110	45.630	46.740	-13.260	60.000	QUASIPeAK

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : SR-1	Time : 2008/05/24 - 05:21
Limit : CISPR_B_00M_AV	Margin : 0
EUT : LCD TV	Probe : LISN-L(023) - Line1
Power : AC 120V/60Hz	Note : Mode 4

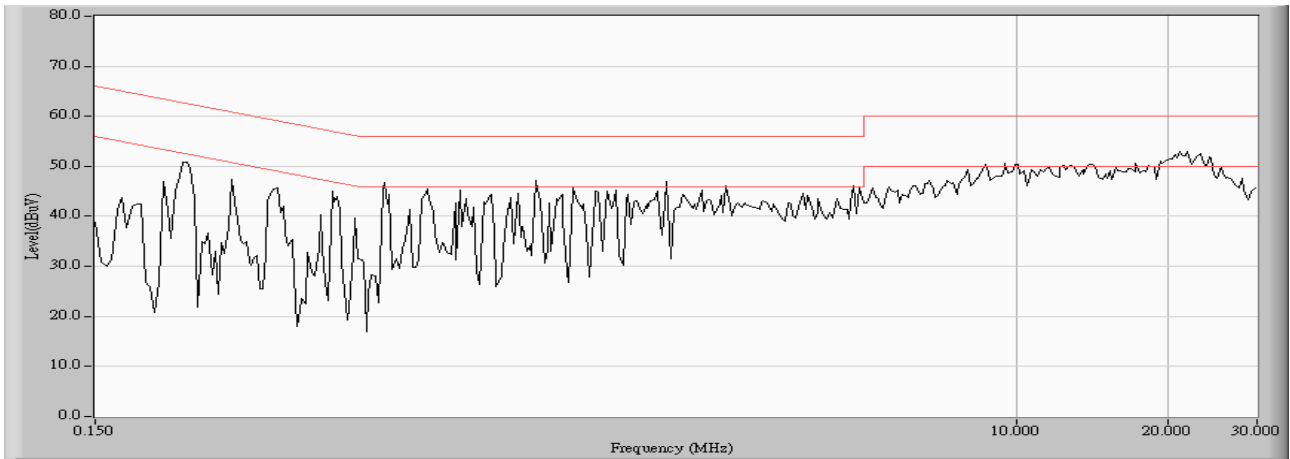


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.224	0.476	45.890	46.366	-7.520	53.886	AVERAGE
2		0.349	0.300	41.830	42.130	-8.184	50.314	AVERAGE
3		0.677	0.310	34.570	34.880	-11.120	46.000	AVERAGE
4		1.119	0.320	36.090	36.410	-9.590	46.000	AVERAGE
5		2.037	0.340	36.980	37.320	-8.680	46.000	AVERAGE
6		20.302	1.110	35.240	36.350	-13.650	50.000	AVERAGE

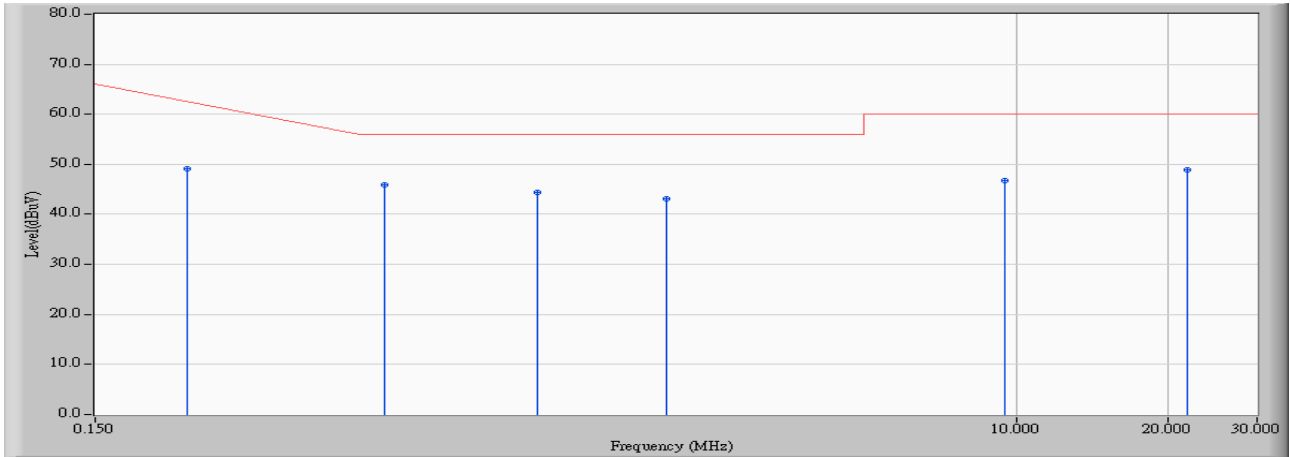
Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : SR-1	Time : 2008/05/24 - 05:23
Limit : CISPR_B_00M_QP	Margin : 10
EUT : LCD TV	Probe : LISN-N(023) - Line2
Power : AC 120V/60Hz	Note : Mode 4



Site : SR-1	Time : 2008/05/24 - 05:24
Limit : CISPR_B_00M_QP	Margin : 0
EUT : LCD TV	Probe : LISN-N(023) - Line2
Power : AC 120V/60Hz	Note : Mode 4

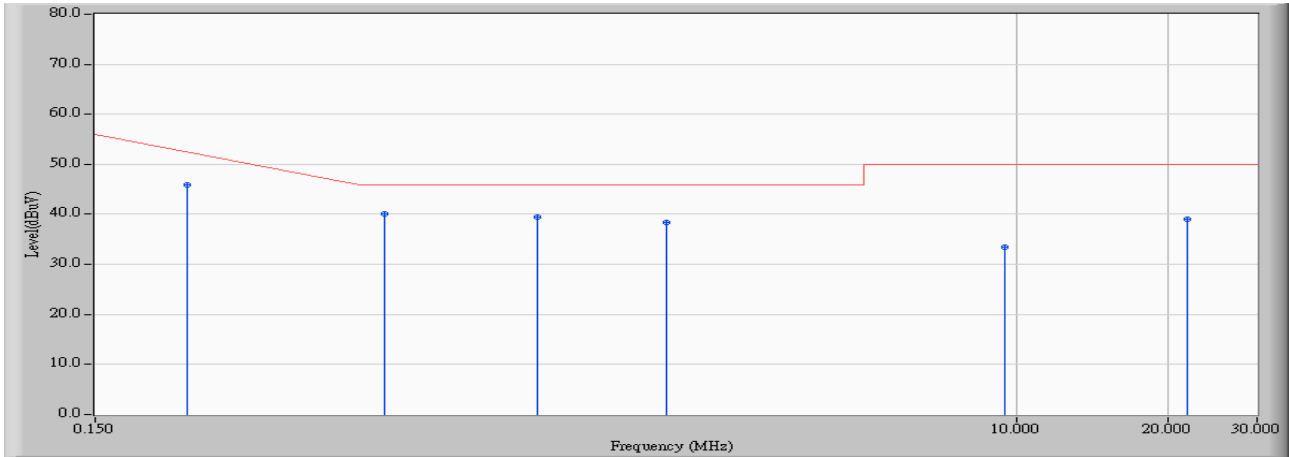


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.228	0.300	48.800	49.100	-14.671	63.771	QUASIPeAK
2	*	0.560	0.310	45.530	45.840	-10.160	56.000	QUASIPeAK
3		1.123	0.326	44.160	44.486	-11.514	56.000	QUASIPeAK
4		2.033	0.350	42.770	43.120	-12.880	56.000	QUASIPeAK
5		9.521	0.490	46.200	46.690	-13.310	60.000	QUASIPeAK
6		21.877	0.970	47.850	48.820	-11.180	60.000	QUASIPeAK

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : SR-1	Time : 2008/05/24 - 05:24
Limit : CISPR_B_00M_AV	Margin : 0
EUT : LCD TV	Probe : LISN-N(023) - Line2
Power : AC 120V/60Hz	Note : Mode 4



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.228	0.300	45.650	45.950	-7.821	53.771	AVERAGE
2	*	0.560	0.310	39.890	40.200	-5.800	46.000	AVERAGE
3		1.123	0.326	39.050	39.376	-6.624	46.000	AVERAGE
4		2.033	0.350	38.140	38.490	-7.510	46.000	AVERAGE
5		9.521	0.490	33.060	33.550	-16.450	50.000	AVERAGE
6		21.877	0.970	38.160	39.130	-10.870	50.000	AVERAGE

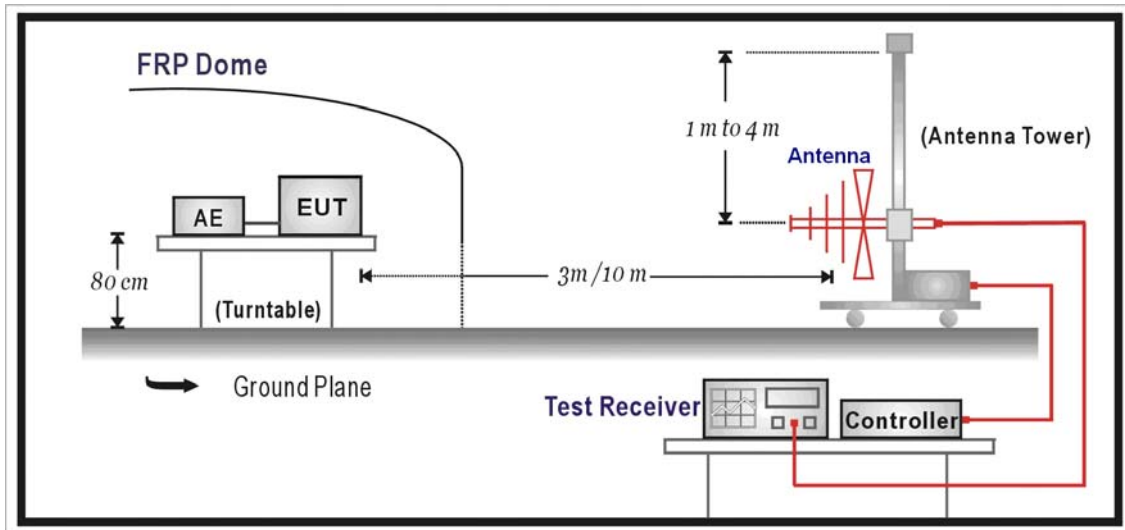
Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

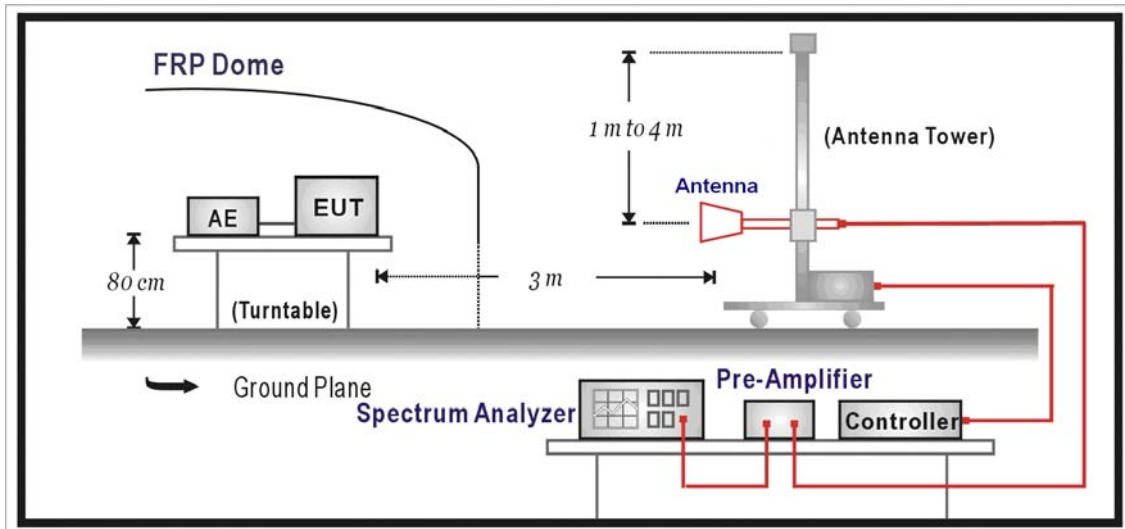
4. Radiated Emission

4.1. Test Setup

Under 1GHz Test Setup:



Above 1GHz Test Setup:



4.2. Limit

Under 1GHz test shall not exceed the following value:

Limits		
Frequency (MHz)	Distance (m)	dBuV/m
30 – 230	10	30
230 – 1000	10	37

Above 1GHz test shall not exceed the following value:

FCC Part 15 Subpart B Paragraph 15.109 Limits (dBuV/m)		
Frequency (MHz)	Distance (m)	dBuV/m
30-88	3	40
88-216	3	43.5
216-960	3	46
Above 960	3	54

Remark:

1. The tighter limit shall apply at the edge between two frequency bands.
2. $E \text{ field strength (dBuV/m)} = 20 \log E \text{ field strength (uV/m)}$

4.3. Test Procedure

The EUT was setup and tested according to ANSI C63.4, 2003.

The EUT is placed on a turn table which is 0.8 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level. The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.4:2003 on radiated measurement.

For an unintentional radiator, including a digital device, the spectrum shall be investigated from the lowest radio frequency signal generated or used in the device, without going below the lowest frequency for which a radiated emission limit is specified, up to the frequency shown in the following table:

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 1.705	30
1.705 – 108	1000
108 – 500	2000
500 – 1000	5000
Above 1000	5 th harmonic of the highest frequency or 40 GHz, whichever is lower

On any frequency or frequencies below or equal to 1000 MHz, the radiated limits shown are based on measuring equipment employing a quasi-peak detector function and above 1000 MHz, the radiated limits shown are based measuring equipment employing an average detector function.

When average radiated emission measurement are included emission measurement Above 1000 MHz, there also is a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit.

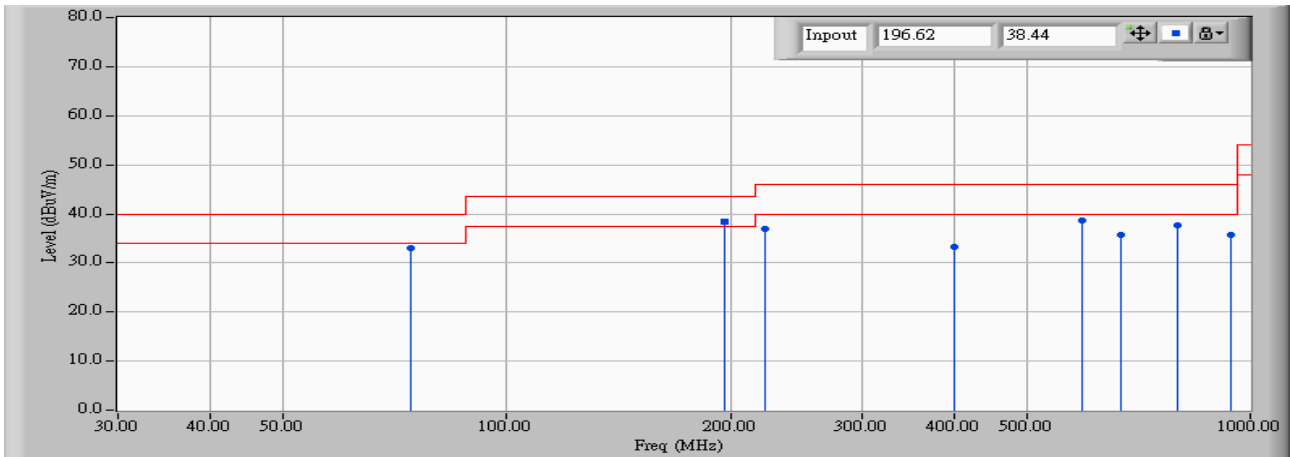
For class A, the measurement distance between the EUT and antenna is 10 meters for under 1GHz and above 1GHz.

For class B, the measurement distance between the EUT and antenna is 10 meters for under 1GHz and 3 meters for above 1GHz.

The bandwidth below 1GHz setting on the field strength meter (R&S Test Receiver ESCS 30) is 120 kHz and above 1GHz is 1MHz.

4.4. Test Result

Site : OATS-3	Time : 2008/05/19 - 13:17
Limit : FCC_CLASS_B_03M_QP	Margin : 6
EUT : LCD TV	Probe : 2007_Site1(2921)_3M - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1

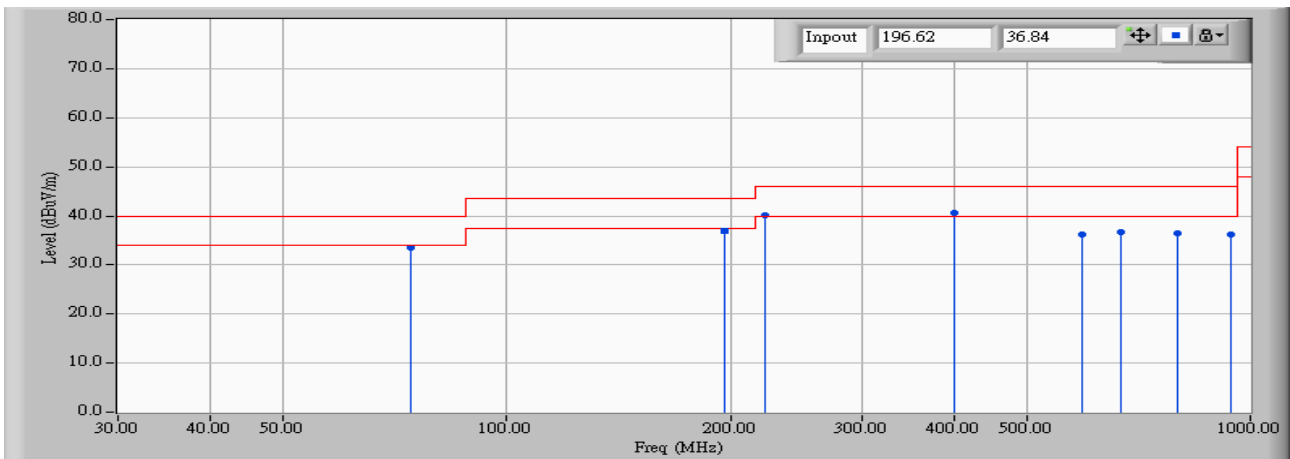


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		74.190	7.129	25.900	33.029	-6.971	40.000	QUASIPeAK
2	*	196.620	10.938	27.500	38.438	-5.062	43.500	QUASIPeAK
3		222.740	11.051	25.800	36.851	-9.149	46.000	QUASIPeAK
4		399.990	19.005	14.300	33.305	-12.695	46.000	QUASIPeAK
5		593.980	22.331	16.300	38.631	-7.369	46.000	QUASIPeAK
6		668.230	22.890	12.800	35.690	-10.310	46.000	QUASIPeAK
7		799.980	24.596	13.000	37.596	-8.404	46.000	QUASIPeAK
8		943.400	26.003	9.600	35.603	-10.397	46.000	QUASIPeAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : OATS-3	Time : 2008/05/19 - 13:17
Limit : FCC_CLASS_B_03M_QP	Margin : 6
EUT : LCD TV	Probe : 2007_Site1(2921)_3M - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1

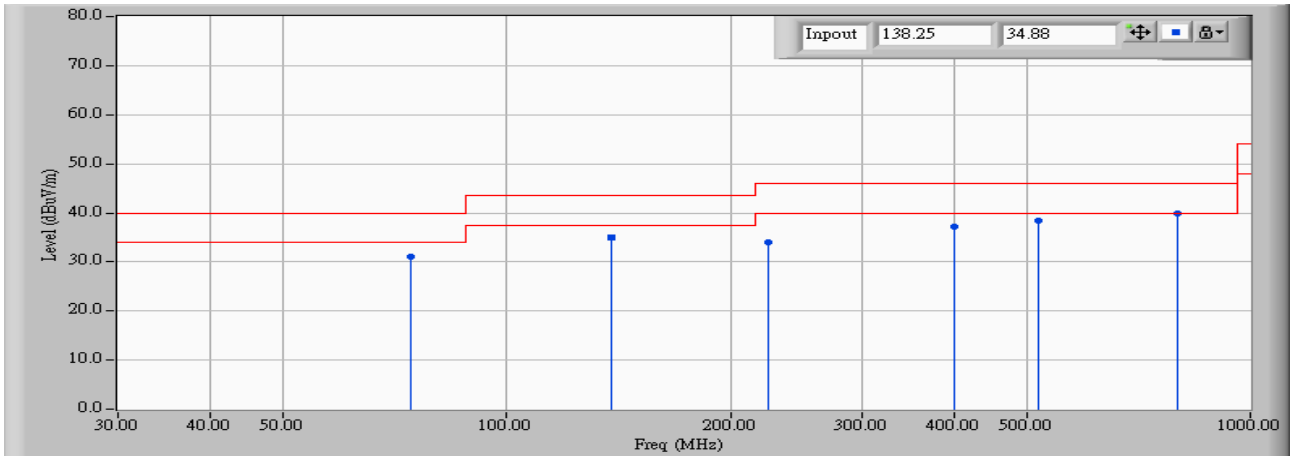


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	74.190	7.129	26.400	33.529	-6.471	40.000	QUASIPeAK
2	196.620	10.938	25.900	36.838	-6.662	43.500	QUASIPeAK
3	222.740	11.051	29.000	40.051	-5.949	46.000	QUASIPeAK
4	* 399.990	19.005	21.600	40.605	-5.395	46.000	QUASIPeAK
5	593.980	22.331	13.800	36.131	-9.869	46.000	QUASIPeAK
6	668.280	22.890	13.700	36.590	-9.410	46.000	QUASIPeAK
7	799.990	24.596	11.800	36.396	-9.604	46.000	QUASIPeAK
8	943.400	26.003	10.100	36.103	-9.897	46.000	QUASIPeAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : OATS-3	Time : 2008/05/19 - 10:13
Limit : FCC_CLASS_B_03M_QP	Margin : 6
EUT : LCD TV	Probe : 2007_Site1(2921)_3M - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 4

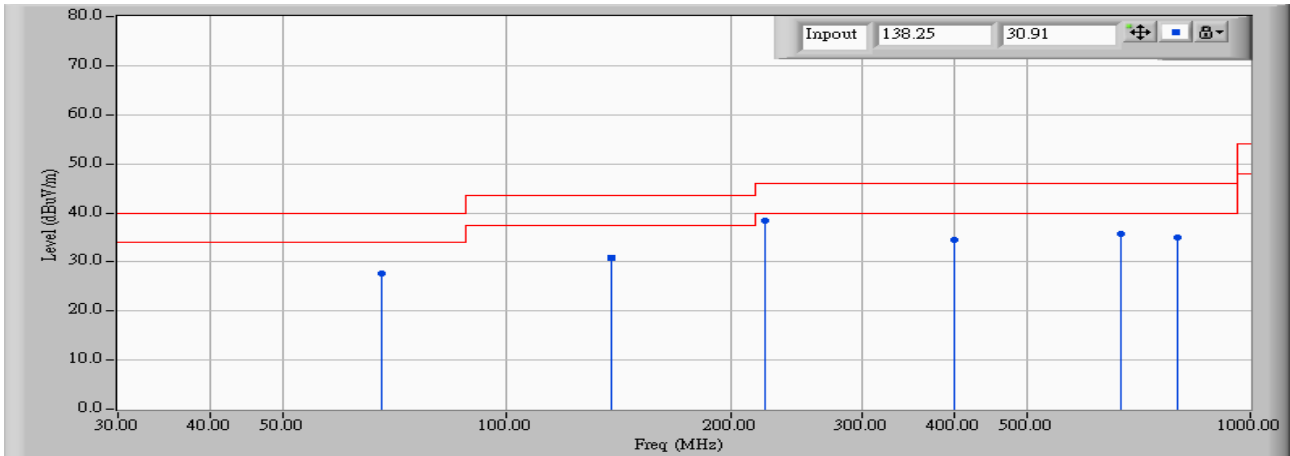


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	74.259	7.140	23.860	31.000	-9.000	40.000	QUASIPeAK
2	138.247	12.927	21.950	34.877	-8.623	43.500	QUASIPeAK
3	224.644	11.217	22.820	34.037	-11.963	46.000	QUASIPeAK
4	399.990	19.005	18.200	37.205	-8.795	46.000	QUASIPeAK
5	518.370	21.377	17.000	38.377	-7.623	46.000	QUASIPeAK
6	* 799.980	24.596	15.200	39.796	-6.204	46.000	QUASIPeAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : OATS-3	Time : 2008/05/19 - 09:55
Limit : FCC_CLASS_B_03M_QP	Margin : 6
EUT : LCD TV	Probe : 2007_Site1(2921)_3M - VERTICAL
Power : AC 120V/60Hz	Note : Mode 4

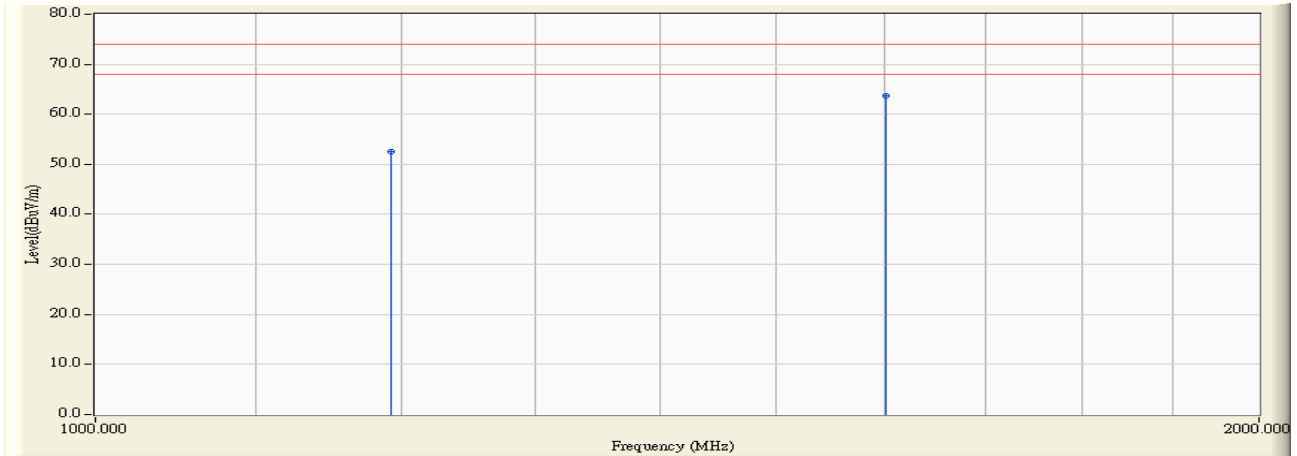


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	68.001	6.641	21.090	27.731	-12.269	40.000	QUASIPeAK
2	138.246	12.927	17.980	30.907	-12.593	43.500	QUASIPeAK
3	* 222.777	11.054	27.360	38.414	-7.586	46.000	QUASIPeAK
4	399.990	19.005	15.600	34.605	-11.395	46.000	QUASIPeAK
5	668.330	22.890	12.900	35.790	-10.210	46.000	QUASIPeAK
6	799.980	24.596	10.500	35.096	-10.904	46.000	QUASIPeAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : OATS-3	Time : 2008/05/27 - 01:29
Limit : FCC_B_(Above_1G)_03M_PK	Margin : 6
EUT : LCD TV	Probe : 9120D_1-18G_Horn - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1

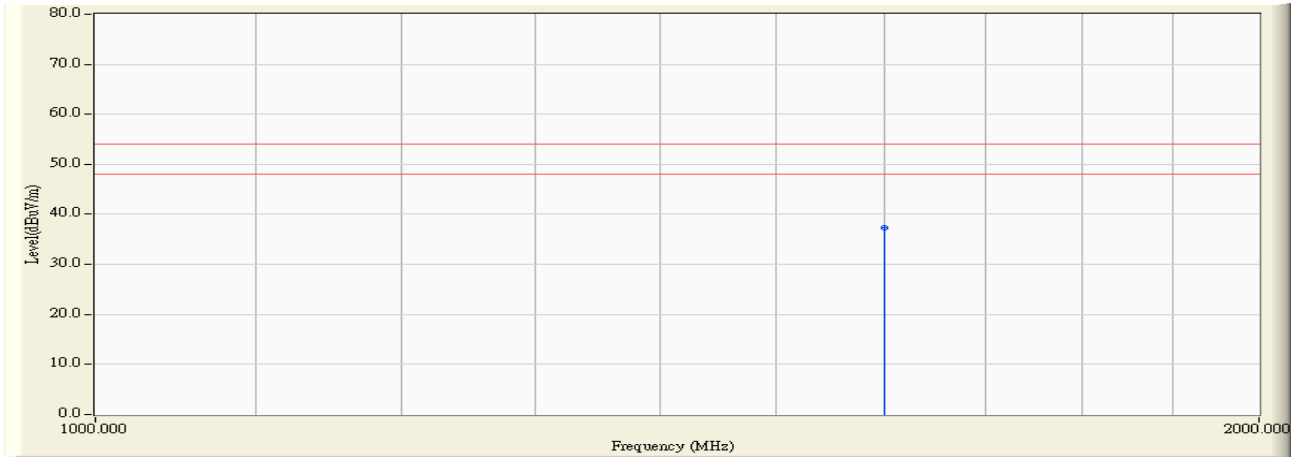


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1193.000	-6.168	58.796	52.628	-21.372	74.000	PEAK
2	*	1601.202	-4.997	68.763	63.766	-10.234	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : OATS-3	Time : 2008/05/27 - 01:31
Limit : FCC_B_(Above_1G)_03M_AV	Margin : 6
EUT : LCD TV	Probe : 9120D_1-18G_Horn - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1

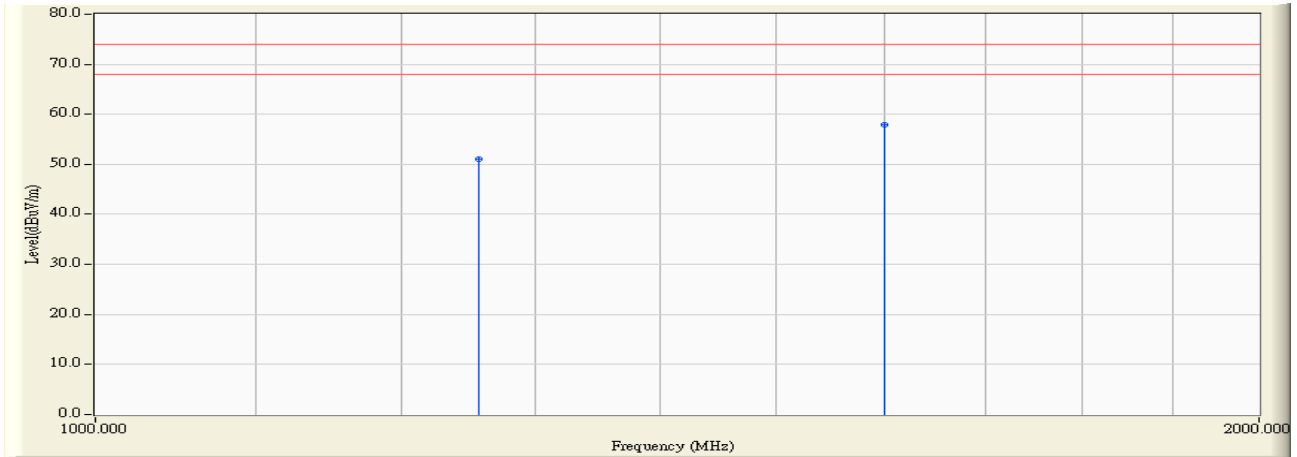


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	1601.202	-4.999	42.340	37.341	-16.659	54.000	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : OATS-3	Time : 2008/05/27 - 01:29
Limit : FCC_B_(Above_1G)_03M_PK	Margin : 6
EUT : LCD TV	Probe : 9120D_1-18G_Horn - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1

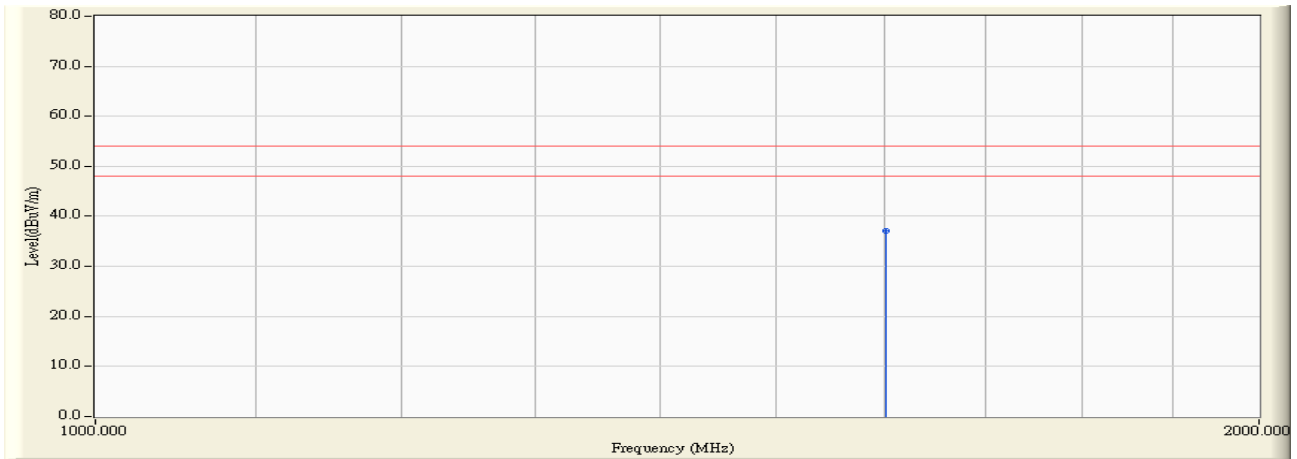


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1256.513	-5.865	56.836	50.971	-23.029	74.000	PEAK
2	*	1600.000	-5.000	62.990	57.990	-16.010	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : OATS-3	Time : 2008/05/27 - 01:31
Limit : FCC_B_(Above_1G)_03M_AV	Margin : 6
EUT : LCD TV	Probe : 9120D_1-18G_Horn - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1

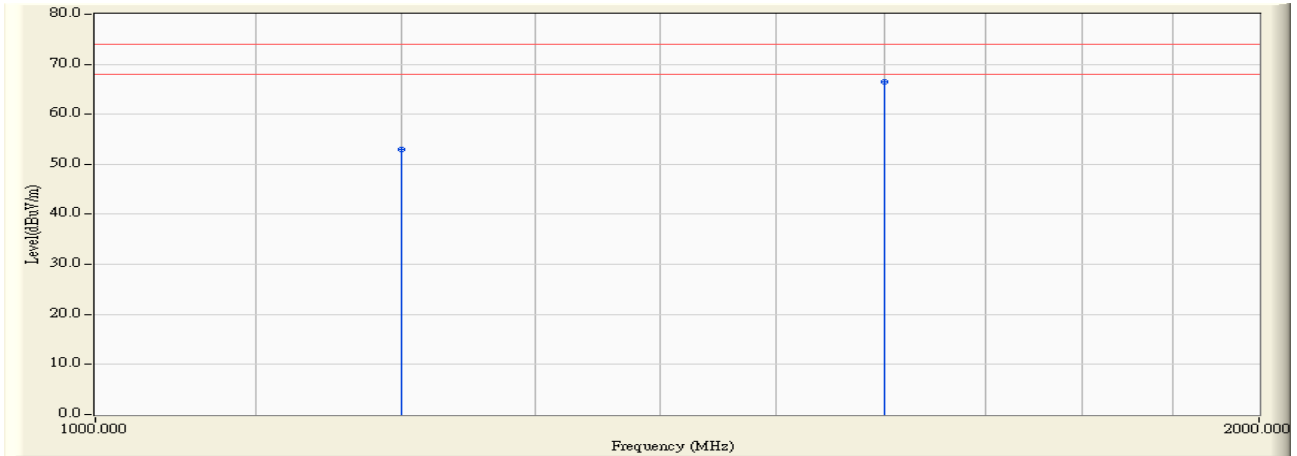


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	1600.000	-4.997	42.100	37.102	-16.898	54.000	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : OATS-3	Time : 2008/05/27 - 01:21
Limit : FCC_B_(Above_1G)_03M_PK	Margin : 6
EUT : LCD TV	Probe : 9120D_1-18G_Horn - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 4

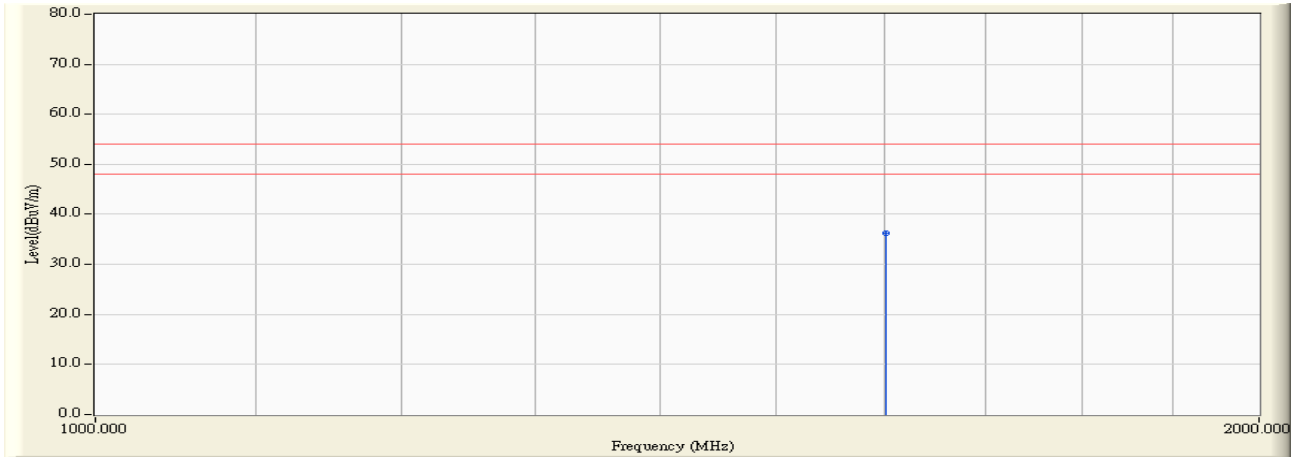


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1200.000	-6.149	59.025	52.876	-21.124	74.000	PEAK
2	*	1600.000	-5.000	71.520	66.520	-7.480	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : OATS-3	Time : 2008/05/27 - 01:31
Limit : FCC_B_(Above_1G)_03M_AV	Margin : 6
EUT : LCD TV	Probe : 9120D_1-18G_Horn - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 4

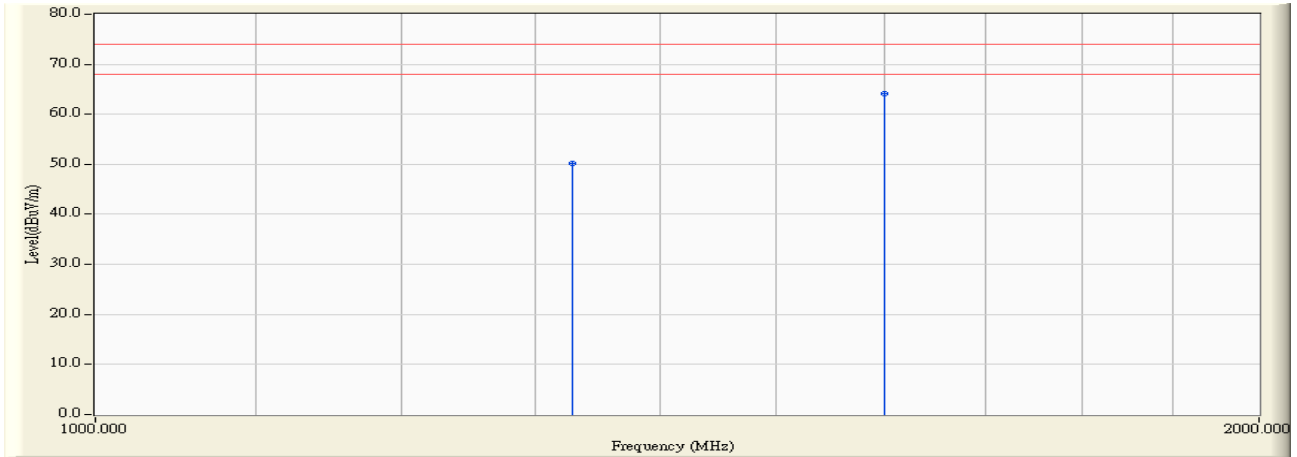


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	1600.000	-4.997	41.340	36.342	-17.658	54.000	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : OATS-3	Time : 2008/05/27 - 01:21
Limit : FCC_B_(Above_1G)_03M_PK	Margin : 6
EUT : LCD TV	Probe : 9120D_1-18G_Horn - VERTICAL
Power : AC 120V/60Hz	Note : Mode 4

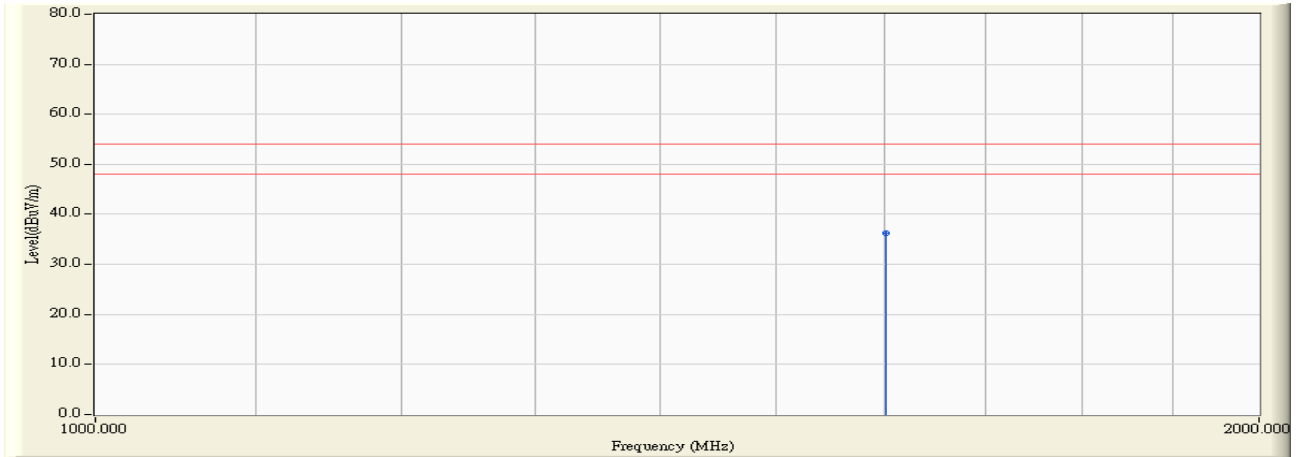


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1328.657	-5.491	55.597	50.106	-23.894	74.000	PEAK
2	*	1600.000	-5.000	69.118	64.118	-9.882	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : OATS-3	Time : 2008/05/27 - 01:31
Limit : FCC_B_(Above_1G)_03M_AV	Margin : 6
EUT : LCD TV	Probe : 9120D_1-18G_Horn - VERTICAL
Power : AC 120V/60Hz	Note : Mode 4



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	1600.000	-4.995	41.240	36.245	-17.755	54.000	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor