EMC TEST REPORT

for

GLOBTEK, INC.

Switching Adapter

Model Number : GT-81083-0404-AUS-X.X-ZZZ GT-81083-0506-AUS-X.X-ZZZ
GT-81083-0509-AUS-X.X-ZZZ GT-81083-0513-AUS-X.X-ZZZ
GT-81083-0404-AEU-X.X-ZZZ GT-81083-0506-AEU-X.X-ZZZ
GT-81083-0509-AEU-X.X-ZZZ GT-81083-0513-AEU-X.X-ZZZ
GT-81083-0404-X.X-ZZZ GT-81083-0506-X.X-ZZZ
GT-81083-0509-X.X-ZZZ GT-81083-0513-X.X-ZZZ
X.X is subtracted from output voltage in 0.1 increments;
ZZZ is either W2-NA/Japan, W2E-Euro, W2U-UK, W2A-Australia, W2K-Korean, W2C-China.

Prepared for : GLOBTEK, INC.
Address : 186 VETERANS DRIVE, NORTHVALE, N.J. 07647 U.S.A.

Prepared By : NS Technology Co., Ltd.
Address : Chenwu Industrial Zone, Houjie Town, Dongguan City, Guangdong, China

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Supplement to Report Number: NSE-V0604036
Project No. : NSE-E08082368
Date of Test : Aug. 13, 2008
Date of Report : Aug. 15, 2008

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Appendix I (16 pages)
Appendix II (16 pages)

NS Technology Co., Ltd.

Applicant: **Address:**	GLOBTEK, INC. 186 VETERANS DRIVE, NORTHVALE, N.J. 07647 U.S.A.
Manufacturer: **Address:**	Dee Van Electronics (Shenzhen) Co., Ltd The 5th Industrial District, Gongming, Bao An District Shenzhen, Guangdong 518106 P.R. China
E.U.T:	Switching Adapter
Model Number:	GT-81083-0404-AUS-X.X-ZZZ GT-81083-0506-AUS-X.X-ZZZ GT-81083-0509-AUS-X.X-ZZZ GT-81083-0513-AUS-X.X-ZZZ GT-81083-0404-AEU-X.X-ZZZ GT-81083-0506-AEU-X.X-ZZZ GT-81083-0509-AEU-X.X-ZZZ GT-81083-0513-AEU-X.X-ZZZ GT-81083-0404-X.X-ZZZ GT-81083-0506-X.X-ZZZ GT-81083-0509-X.X-ZZZ GT-81083-0513-X.X-ZZZ X.X is subtracted from output voltage in 0.1 increments; ZZZ is either W2-NA/Japan, W2E-Euro, W2U-UK, W2A-Australia, W2K-Korean,W2C-China.
Trade Name:	GlobTek, Inc **Serial No.:** ------
Date of Receipt:	Aug. 12, 2008 **Date of Test:** Aug. 13, 2008
Test Specification:	EN 55022:2006 Class B CISPR 22:2005 Class B EN 61000-3-2:2006 EN 61000-3-3:1995+A1:2001+A2:2005 EN 55024:1998+A1:2001+A2:2003 CISPR 24:1997+A1:2001+A2:2002 —EN 61000-4-2:1995+A1:1998+A2:2001 —EN 61000-4-3:2002+A1:2002 —EN 61000-4-4: 2004 —EN 61000-4-5:1995+A1:2001 —EN 61000-4-6:1996+A1:2001 —EN 61000-4-8:1993+A1:2001 —EN 61000-4-11: 2004
Test Result:	The equipment under test was found to be compliance with the requirements of the standards applied. **Issue Date: Aug. 15, 2008**

Tested by:	Reviewed by:	Approved by:
Mark / Engineer	Iceman Hu / Supervisor	Steven Lee / Manager

Other Aspects:

Amendment Purpose for Switching Adapter as follows: Only change the applicant、manufacturer、trade name、model No. and so on base on the report NSE-V0604036.

Abbreviations: OK/P=passed fail/F=failed n.a/N=not applicable E.U.T=equipment under tested

1. GENERAL PRODUCT INFORMATION

1.1. Product Function

Refer to Technical Construction Form and User Manual.

1.2. Description of Device (EUT)

Description	:	Switching Adapter
Model No.	:	GT-81083-0506-1.0-W2E, GT-81083-0513-W2E
System Input Voltage	:	100V~240V, 50/60Hz
Rated Current	:	0.2A
DC Line	:	Unshielded, Undetachable 1.8m

1.3. Difference between Model Numbers

***Notes**: The model numbers are different only for the output and input. But the PCB boards are identical.*

1.4. Independent Operation Modes

The basic operation modes are:

1.4.1. Full Load

1.4.2. Half Load

1.4.3. No Load

2. TEST SITES

2.1. Test Facilities

EMC Lab : Certificated by TUV Rheinland, Germany.
Date of registration: July 28, 2003

Certificated by FCC, USA
Registration No.: 897109
Date of registration: October 10, 2003

Certificated by VCCI, Japan
Registration No.: R-1798 & C-1926
Date of registration: January 30, 2004

Certificated by CNAL, CHINA
Registration No.: L1744
Date of registration: November 25, 2004

Certificated by Intertek ETL SEMKO
Registration No.: TMP-013
Date of registration: June 11, 2005

Certificated by TUV/PS, Hong Kong
Date of registration: December 1, 2005

Name of Firm : NS Technology Co., Ltd.

Site Location : Chenwu Industrial Zone, Houjie Town, Dongguan City, Guangdong, China

2.2. List of Test and Measurement Instruments

2.2.1. For conducted emission at the mains terminal test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Test Receiver	Rohde & Schwarz	ESCS30	100199	Mar.20,08	Mar.20,09
L.I.S.N.#1	Rohde & Schwarz	ESH2-Z5	100071	Mar.20,08	Mar.20,09
L.I.S.N.#2(AUX)	Rohde & Schwarz	ESH3-Z5	100317	Mar.20,08	Mar.20,09

2.2.2. For radiated emission test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Test Receiver	Rohde & Schwarz	ESCS30	100340	Mar.20,08	Mar.20,09
Spectrum Analyzer	HP	8593E	3448U00806	Mar.20,08	Mar.20,09
Amplifier	Agilent	8447D	2944A10488	May 2,08	May 2,09
Bilog Antenna	EMCO	3142B	00022050	May 2,08	May 2,09

2.2.3. For harmonic current emissions and voltage fluctuations/flicker test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Power Analyzer	California Instrument	PACS-1	72134	Apr.8,08	Apr.8,09
Voltage Source	California Instrument	5001ix-400	55194	Apr.8,08	Apr.8,09

2.2.4. For electrostatic discharge immunity test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
ESD Generator	HAEFELY	PESD1610	H301530	Apr.8,08	Apr.8,09

2.2.5. For radio frequency electromagnetic field immunity test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Signal Generator	HP	8648A	3426A01263	Apr.8,08	Apr.8,09
Amplifier	A&R	500A100	17034	May 2,08	May 2,09
Amplifier	A&R	100W/1000M1	17028	May 2,08	May 2,09
Isotropic Field Monitor	A&R	FM2000	16829	May 2,08	May 2,09
Isotropic Field Probe	A&R	FP2000	16755	May 2,08	May 2,09
Biconic Antenna	EMCO	3108	9507-2534	May 2,08	May 2,09
Log-periodic Antenna	A&R	AT1080	16812	May 2,08	May 2,09

2.2.6. For electrical fast transient/burst immunity test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EFT Generator	HAEFELY	PEFT4010	150546	Apr.8,08	Apr.8,09
EFT Coupling Clamp	HAEFELY	IP4A	150407	Apr.8,08	Apr.8,09

2.2.7. For surge immunity test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Surge Controller	HAEFELY	PSURGE8000	150336	Apr.8,08	Apr.8,09
Surge Impulse Module	HAEFELY	PIM100	150007	Apr.8,08	Apr.8,09
Surge Coupling Module	HAEFELY	PCD100	149870	Apr.8,08	Apr.8,09

2.2.8. For injected currents susceptibility test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Signal Generator	HP	8648A	3426A01263	Apr.8,08	Apr.8,09
Amplifier	HAEFELY	PAMP250	149594	May 2,08	May 2,09
CDN	Luthi	L-801M2/M3	2015	May 2,08	May 2,09

2.2.9. For power frequency magnetic field immunity test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Magnetic Field Tester	HAEFELY	MAG100.1	150579	May 2,08	May 2,09

2.2.10.For voltage dips and short interruptions immunity test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
DIPS Tester	HAEFELY	PLINE 1610	150370	Apr.8,08	Apr.8,09

3. TEST SET-UP AND OPERATION MODES

3.1. Principle of Configuration Selection

Emission: The equipment under test (EUT) was configured to measure its highest possible emission level. The test modes were adapted accordingly in reference to the Operating Instructions.

3.2. Block Diagram of Test Set-up

System Diagram of Connections Between EUT and Simulators

(EUT: Switching Adapter)

3.3. Test Operation Mode and Test Software

Refer to Test Setup in clause 4 & 5.

3.4. Special Accessories and Auxiliary Equipment

None.

3.5. Countermeasures to Achieve EMC Compliance

None.

4. EMISSION TEST RESULTS

4.1. Conducted Emission at the Mains Terminals Test

RESULT	:	**Pass**
Test procedure	:	CISPR 22:2005 Class B
Frequency range	:	0.15～30MHz
Test Site	:	Shielded Room
Limits	:	CISPR 22:2005 Class B

Test Setup

Date of test	:	Aug. 13, 2008
Model No.	:	GT-81083-0506-1.0-W2E, GT-81083-0513-W2E
Input Voltage	:	AC 230V/50Hz, AC 100V/60Hz
Operation Mode	:	Full Load / Half Load / No Load

The EUT was put on a wooden table which was 0.8metre high above the ground and connected to the AC mains through a Artificial Mains Network (A.M.N). The mains lead in excess of 1 m separating the EUT from the AMN was folded back and forth parallel to the lead so as to form a bundle with a length of 0.3m to 0.4m.

The EUT was kept 0.4m from any other earthed conducting surface. Both sides of AC line were checked to find out the maximum conducted emission levels according to the test procedure during conducted emission test.

The bandwidth of the test receiver (R&S ESCS30) was set at 9KHz.

The frequency range from 150 KHz to 30 MHz was investigated.

The test data of the worst case condition(s) was reported on the following page. All the scanning waveform were attached within Appendix I.

Test Data

EUT:	Switching Adapter	Temperature:	24℃
M/N:	GT-81083-0506-1.0-W2E	Humidity:	54%
Test Mode:	Full Load	Test Engineer:	Mark
Input Voltage:	AC 230V/50Hz		

Conducted Emission at The Mains Terminals					
Frequency (MHz)	Reading (dBμV)			Limit (dBμV)	
	Quasi-Peak	Average	Ports	Quasi-Peak	Average
0.19	51.4	43.6	Neutral	64.0	54.0
0.26	48.5	39.3	Neutral	61.4	51.4
0.32	47.7	38.6	Neutral	59.7	49.7
0.46	50.7	36.3	Neutral	56.7	46.7
0.72	48.2	34.1	Neutral	56.0	46.0
1.55	48.7	34.8	Neutral	56.0	46.0
0.19	47.8	37.6	Line	64.0	54.0
0.32	44.1	33.4	Line	59.7	49.7
0.74	46.3	33.7	Line	56.0	46.0
1.65	47.2	34.2	Line	56.0	46.0
2.57	43.0	35.4	Line	56.0	46.0
4.95	40.9	35.6	Line	56.0	46.0

Test Data

EUT:	Switching Adapter	Temperature:	24℃
M/N:	GT-81083-0506-1.0-W2E	Humidity:	54%
Test Mode:	Full Load	Test Engineer:	Mark
Input Voltage:	AC 100V/60Hz		

Conducted Emission at The Mains Terminals					
Frequency (MHz)	Reading (dBμV)			Limit (dBμV)	
	Quasi-Peak	Average	Ports	Quasi-Peak	Average
0.20	43.1	33.3	Neutral	63.6	53.6
0.38	43.7	31.6	Neutral	58.3	48.3
0.44	44.1	33.6	Neutral	57.1	47.1
0.87	38.1	27.9	Neutral	56.0	46.0
2.65	39.3	30.1	Neutral	56.0	46.0
4.66	36.3	26.4	Neutral	56.0	46.0
0.19	44.3	31.4	Line	64.0	54.0
0.37	42.6	29.7	Line	58.5	48.5
0.45	43.3	30.2	Line	56.9	46.9
0.89	39.3	25.9	Line	56.0	46.0
2.74	37.4	28.4	Line	56.0	46.0
4.61	35.5	23.9	Line	56.0	46.0

Notes: 1. The above data and the following graph were recorded for the tests on the mains terminals.

2. Test uncertainty: ±1.99dB at a level of confidence of 95%.

4.2. Radiated Emission Test

RESULT	**:**	**Pass**
Test procedure	:	CISPR 22:2005 Class B
Frequency range	:	30～1000MHz
Test Site	:	966 Chamber
Limits	:	CISPR 22:2005 Class B

Test Setup

Date of test	:	Aug. 13, 2008
Model No.	:	GT-81083-0506-1.0-W2E, GT-81083-0513-W2E
Input Voltage	:	AC 230V/50Hz, AC 100V/60Hz
Operation Mode	:	Full Load / Half Load / No Load

The EUT was placed on a turn table which was 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was set 3 meters away from the receiving antenna which was mounted on a antenna tower. The measuring antenna moved up and down to find out the maximum emission level. It moved from 1 to 4 m for horizontal and vertical polarizations. The broadband antenna (calibrated by dipole antenna) was used as a receiving antenna.

The bandwidth setting on the test receiver (R&S TEST RECEIVER ESCS30) was 120 KHz.

The EUT was tested in Chamber Site.

The test data of the worst case condition(s) was reported on the following pages. All the scanning waveform were attached within Appendix II.

Test Data

EUT	:	Switching Adapter	Temperature	:	25℃
Model No.	:	GT-81083-0506-1.0-W2E	Humidity	:	55%
Test Mode	:	Full load	Test Engineer	:	Mark
Input Voltage:		AC 230V/50Hz			

Frequency MHz	Antenna Factor dB	Cable Loss dB	Meter Reading Horizontal dBμV	Emission Level Horizontal dBμV/m	Over Limits dB	Limits dBμV/m
58.130	9.51	1.08	20.67	31.26	-8.74	40.00
138.640	10.16	1.82	19.85	31.83	-8.17	40.00
174.530	11.80	2.08	18.72	32.60	-7.40	40.00
198.780	**12.33**	**2.24**	**20.22**	**34.79**	**-5.21**	**40.00**
286.080	14.61	2.76	17.16	34.53	-12.47	47.00
349.130	15.81	3.12	16.67	35.66	-11.34	47.00

Remark: The worst emission was detected at **198.780MHz** with corrected signal level of **34.79dBμV/m**(Limit was **40.00 dBμV/m**) when the antenna was at **Horizontal** polarization and at **1.9m** high, the turn table was at **147°**.

Frequency MHz	Antenna Factor dB	Cable Loss dB	Meter Reading Vertical dBμV	Emission Level Vertical dBμV/m	Over Limits dB	Limits dBμV/m
46.490	12.65	0.95	19.21	32.81	-7.19	40.00
61.040	**9.34**	**1.11**	**24.41**	**34.86**	**-5.14**	**40.00**
85.290	10.39	1.37	17.76	29.52	-10.48	40.00
201.690	12.40	2.24	14.75	29.39	-10.61	40.00
286.080	14.61	2.76	7.72	25.09	-21.91	47.00
337.490	15.64	3.06	7.41	26.11	-20.89	47.00

Remark: The worst emission was detected at **61.040MHz** with corrected signal level of **34.86dBμV/m** (Limit was **40.00 dBμV/m**) when the antenna was at **Vertical** polarization and at **1.2m** high, the turn table was at **56°**.

Notes: 1. All readings were Quasi-Peak values.
2. Emission Level = Antenna Factor + Cable Loss + Meter Reading
3. 0 ° was the table front facing the antenna. Degree was calculated from 0 ° clockwise facing the antenna.
4. Test uncertainty: ±4.76dB at a level of confidence of 95%.

Test Data

EUT	:	Switching Adapter	Temperature	:	25℃
Model No.	:	GT-81083-0506-1.0-W2E	Humidity	:	55%
Test Mode	:	Full load	Test Engineer	:	Mark
Input Voltage:		AC 100V/60Hz			

Frequency	Antenna Factor	Cable Loss	Meter Reading Horizontal	Emission Level Horizontal	Over Limits	Limits
MHz	dB	dB	dBμV	dBμV/m	dB	dBμV/m
59.100	9.39	1.10	20.18	30.67	-9.33	40.00
116.330	10.32	1.65	20.74	32.71	-7.29	40.00
153.190	11.26	1.89	20.82	33.97	-6.03	40.00
196.840	**12.28**	**2.23**	**19.06**	**33.57**	**-6.43**	**40.00**
288.990	14.67	2.76	16.14	33.57	-13.43	47.00
349.130	15.87	3.12	13.24	32.23	-14.77	47.00

Remark: The worst emission was detected at **196.840MHz** with corrected signal level of **33.57dBμV/m**(Limit was **40.00 dBμV/m**) when the antenna was at **Horizontal** polarization and at **2.0m** high, the turn table was at **155°**.

Frequency	Antenna Factor	Cable Loss	Meter Reading Vertical	Emission Level Vertical	Over Limits	Limits
MHz	dB	dB	dBμV	dBμV/m	dB	dBμV/m
43.580	14.17	0.93	17.30	32.40	-7.60	40.00
61.040	**9.34**	**1.11**	**23.41**	**33.86**	**-6.14**	**40.00**
85.290	10.39	1.37	17.93	29.69	-10.31	40.00
162.890	11.60	1.98	14.30	27.88	-12.12	40.00
198.780	12.33	2.24	13.63	28.20	-11.80	40.00
284.140	14.57	2.73	7.42	24.72	-22.28	47.00

Remark: The worst emission was detected at **61.040MHz** with corrected signal level of **33.86dBμV/m** (Limit was **40.00 dBμV/m**) when the antenna was at **Vertical** polarization and at **1.3m** high, the turn table was at **48°**.

Notes: 1. All readings were Quasi-Peak values.
2. Emission Level = Antenna Factor + Cable Loss + Meter Reading
3. 0 ° was the table front facing the antenna. Degree was calculated from 0 ° clockwise facing the antenna.
4. Test uncertainty: ±4.76dB at a level of confidence of 95%.

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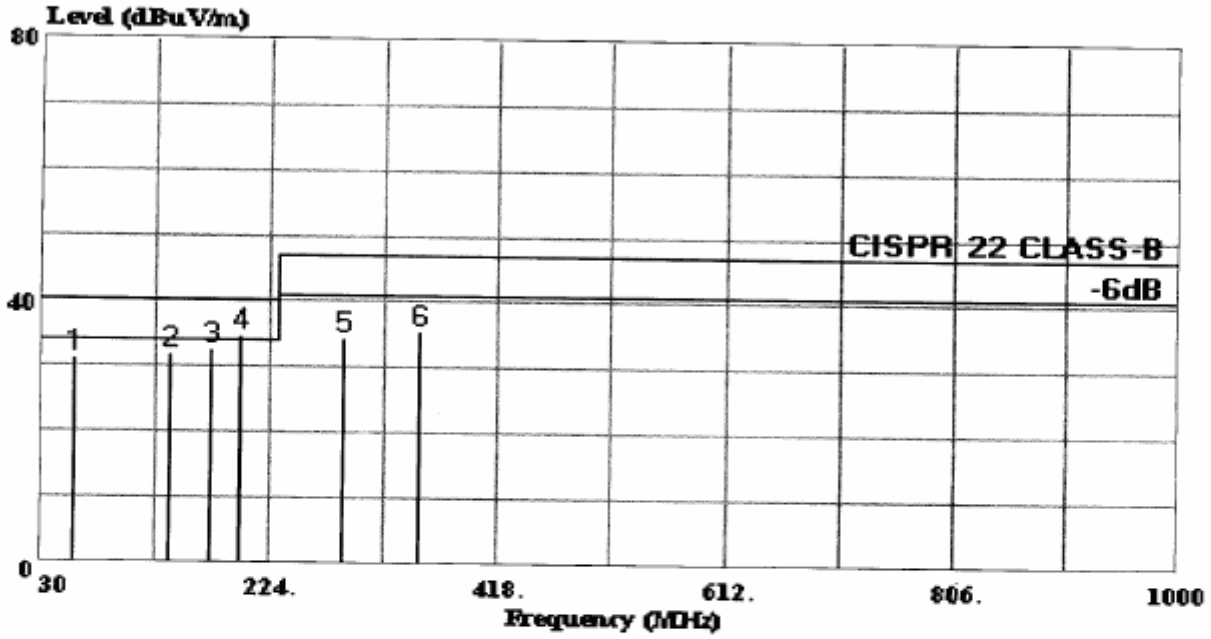

Site : 966 CHAMBER ROOM
Condition : CISPR 22 CLASS-B 3m 3142B HORIZONTAL
EUT : Switching Adapter
Power : AC 230V/50Hz
M/N : GT-81083-0506-1.0-W2E
Test Engineer: Mark
Comment : Temp:25'C Humi:55%
Memo : Full load
: Ant high:1.9m Table angle:147'

		Freq	Level	Over Limit	Limit Line	Read Level	Factor	Cable Loss	Probe Factor
		MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB
1		58.130	31.26	-8.74	40.00	20.67	10.59	1.08	9.51
2		138.640	31.83	-8.17	40.00	19.85	11.98	1.82	10.16
3		174.530	32.60	-7.40	40.00	18.72	13.88	2.08	11.80
4	!	198.780	34.79	-5.21	40.00	20.22	14.57	2.24	12.33
5		286.080	34.53	-12.47	47.00	17.16	17.37	2.76	14.61
6		349.130	35.66	-11.34	47.00	16.67	18.99	3.12	15.87

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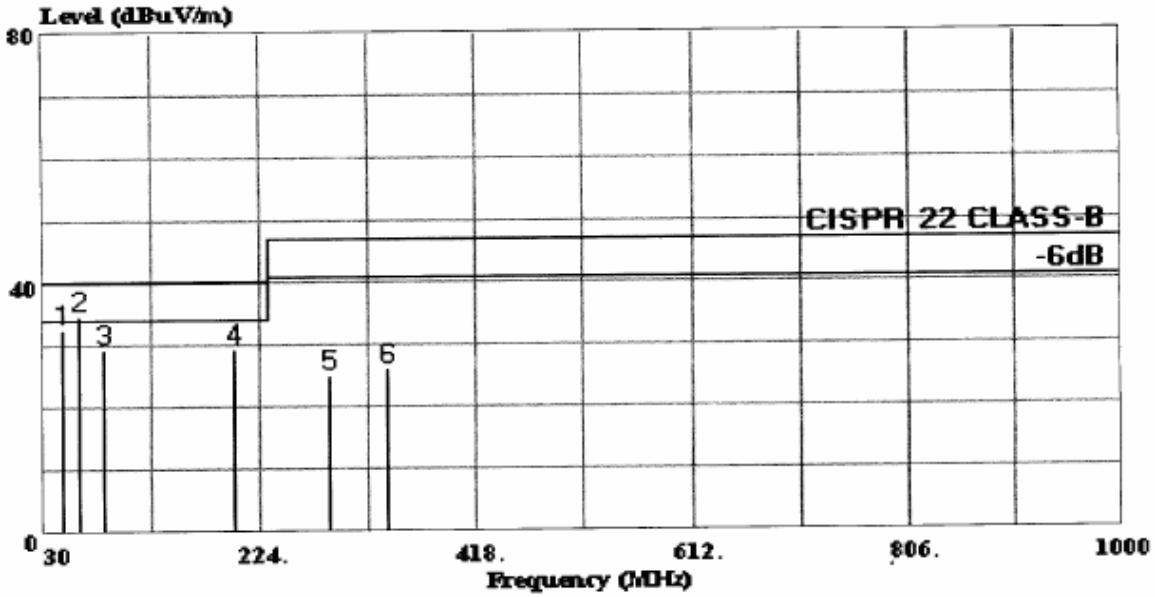

Site : 966 CHAMBER ROOM
Condition : CISPR 22 CLASS-B 3m 3142B VERTICAL
EUT : Switching Adapter
Power : AC 230V/50Hz
M/N : GT-81083-0506-1.0-W2E
Test Engineer: Mark
Comment : Temp:25'C Humi:55%
Memo : Full load
: Ant high:1.2m Table angle:56'

	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Cable Loss	Probe Factor
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB
1	46.490	32.81	-7.19	40.00	19.21	13.60	0.95	12.65
2 !	61.040	34.86	-5.14	40.00	24.41	10.45	1.11	9.34
3	85.290	29.52	-10.48	40.00	17.76	11.76	1.37	10.39
4	201.690	29.39	-10.61	40.00	14.75	14.64	2.24	12.40
5	286.080	25.09	-21.91	47.00	7.72	17.37	2.76	14.61
6	337.490	26.11	-20.89	47.00	7.41	18.70	3.06	15.64

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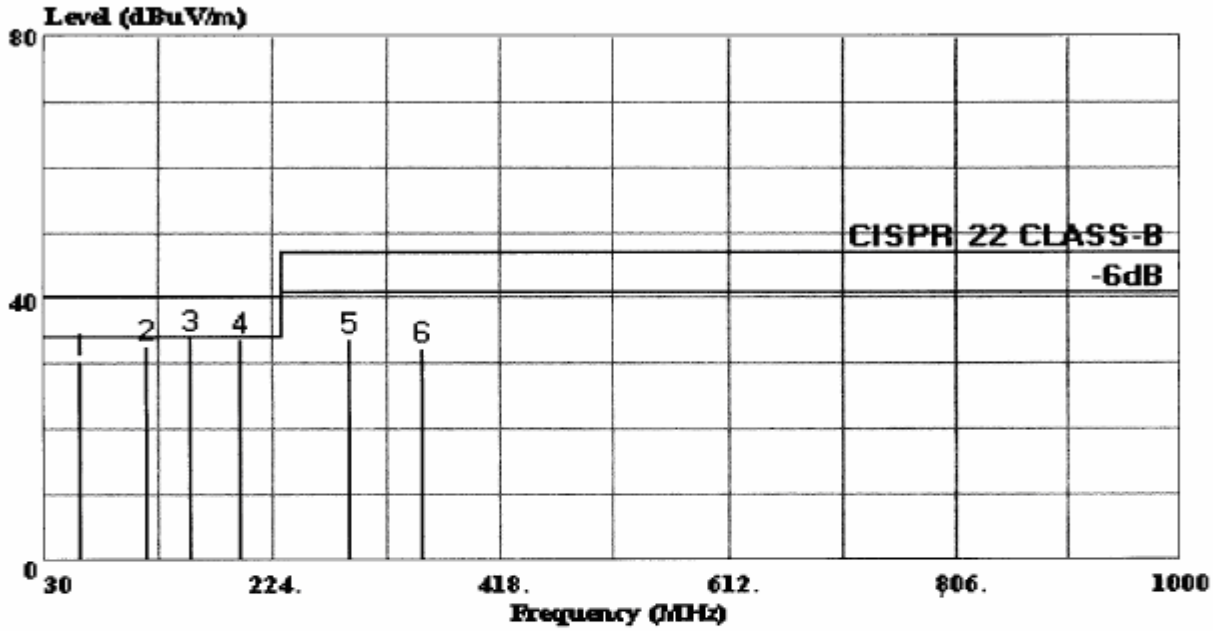

Site : 966 CHAMBER ROOM
Condition : CISPR 22 CLASS-B 3m 3142B HORIZONTAL
EUT : Switching Adapter
Power : AC 100V/60Hz
M/N : GT-81083-0506-1.0-W2E
Test Engineer: Mark
Comment : Temp:25'C Humi:55%
Memo : Full load
: Ant high:2.0m Table angle:155'

Page: 1

	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Cable Loss	Probe Factor
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB
1	59.100	30.67	-9.33	40.00	20.18	10.49	1.10	9.39
2	116.330	32.71	-7.29	40.00	20.74	11.97	1.65	10.32
3	153.190	33.97	-6.03	40.00	20.82	13.15	1.89	11.26
4	196.840	33.57	-6.43	40.00	19.06	14.51	2.23	12.28
5	288.990	33.57	-13.43	47.00	16.14	17.43	2.76	14.67
6	349.130	32.23	-14.77	47.00	13.24	18.99	3.12	15.87

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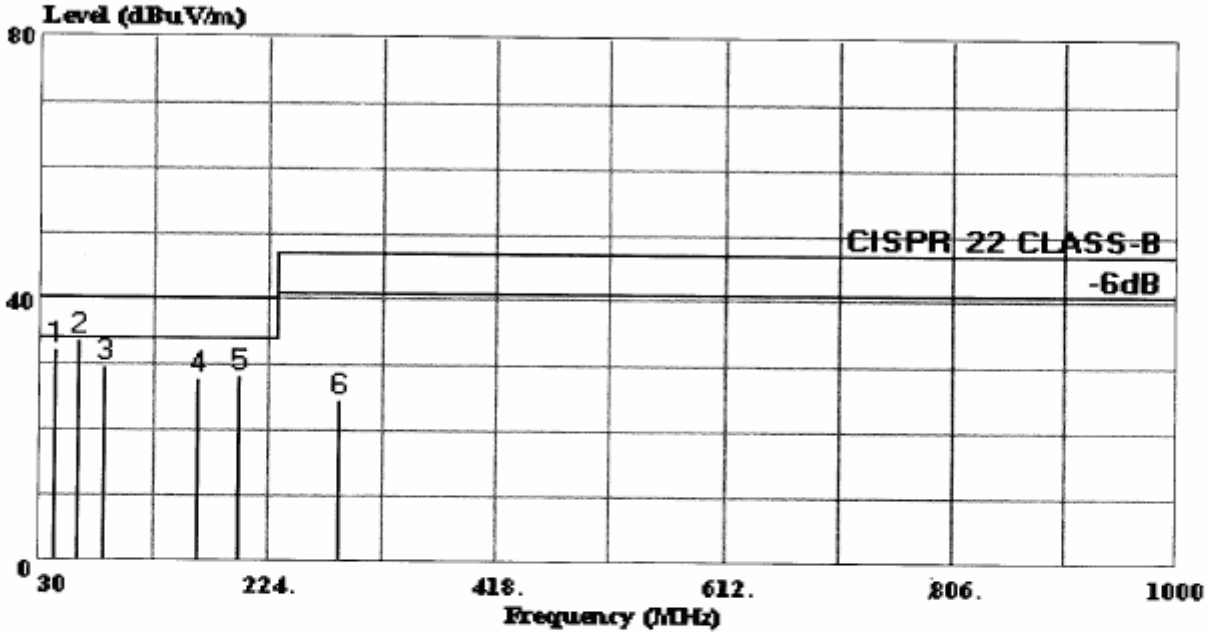
Data#: 126 File#: E:\Radiation\D\Dve.emi Date: 2008-08-13 Time: 20:25:53



Site : 966 CHAMBER ROOM
Condition : CISPR 22 CLASS-B 3m 3142B VERTICAL
EUT : Switching Adapter
Power : AC 100V/60Hz
M/N : GT-81083-0506-1.0-W2E
Test Engineer: Mark
Comment : Temp:25'C Humi:55%
Memo : Full load
: Ant high:1.3m Table angle:48'

	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Cable Loss	Probe Factor
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB
1	43.580	32.40	-7.60	40.00	17.30	15.10	0.93	14.17
2	61.040	33.86	-6.14	40.00	23.41	10.45	1.11	9.34
3	85.290	29.69	-10.31	40.00	17.93	11.76	1.37	10.39
4	162.890	27.88	-12.12	40.00	14.30	13.58	1.98	11.60
5	198.780	28.20	-11.80	40.00	13.63	14.57	2.24	12.33
6	284.140	24.72	-22.28	47.00	7.42	17.30	2.73	14.57

4.3. Harmonic Current Emissions on AC Mains Test

RESULT	**:**	**Pass**
Test procedure	:	EN 61000-3-2:2006
Measured harmonics	:	1～40th
Limits	:	EN 61000-3-2:2006

There is no need for Harmonics test to be performed on this product(rated power is less than 75W) in accordance with EN 61000-3-2:2006.

For further details, please refer to Clause 7 of EN 61000-3-2:2006 which states:

“For the following categories of equipment, limits are not specified in this edition of the standard:

- equipment with a rated power of 75W or less, other than lighting equipment.”

4.4. Voltage Fluctuations and Flicker on AC Mains Test

RESULT	**:**	**Pass**
Test procedure	:	EN 61000-3-3:1995+A1:2001+A2:2005
Limits	:	EN 61000-3-3:1995+A1:2001+A2:2005

There is no need for Flicker test to be performed on this product in accordance with EN 61000-3-3:1995+A1:2001+A2:2005.

For further details, please refer to Clause 6.1 of EN 61000-3-3:1995+A1:2001+A2:2005

which states:

“For voltage changes caused by manual switching, equipment is deemed to comply without further testing if the maximum r.m.s. input current (including inrush current) evaluated over each 10 ms half-period zero-crossings does not exceed 20 A, and the supply current after inrush is within a variation band of 1.5A. ”

5. IMMUNITY TEST RESULT

5.1. Electrostatic Discharge Immunity Test

RESULT	**:**	**Pass**
Test procedure	:	CISPR 24:1997+A1:2001+A2:2002
Basic standard	:	EN 61000-4-2:1995+A1:1998+A2:2001
Test specification	:	+/-4.0kV(Contact discharge) +/-8.0kV(Air discharge)
Number of discharges	:	≥10(Air discharge for single polarity discharge) ≥25 (Contact discharge for single polarity discharge)
Polarity	:	Positive/Negative
Performance criterion	:	B

Test Setup

Date of test	:	Aug. 13, 2008
Model No.	:	GT-81083-0506-1.0-W2E, GT-81083-0513-W2E
Input Voltage	:	AC 230V/50Hz
Operation Mode	:	Full Load
Temperature	:	24℃
Humidity	:	54%

Table 1: Electrostatic Discharge Immunity Test Result

Discharge Location		**Type of discharge**	**Result**
Slot	2 points	Air	Pass
LED	2 points	Air	Pass
Output Port (GND)	1 point	Contact	Pass
HCP	4 points	Contact	Pass
VCP	4 points	Contact	Pass

Remark: 1. No obvious change of function was found after test.
2. Discharge should be considered on Contact and Air and Horizontal Coupling Plane (HCP) and Vertical Coupling Plane (VCP).

5.2. Radio Frequency Electromagnetic Field Immunity Test

RESULT	**:**	**Pass**
Test procedure	:	CISPR 24:1997+A1:2001+A2:2002
Basic standard	:	EN 61000-4-3:2002+A1:2002
Performance criterion	:	A

Test Setup

Date of test	:	Aug. 13, 2008
Model No.	:	GT-81083-0506-1.0-W2E, GT-81083-0513-W2E
Input Voltage	:	AC 230V/50Hz
Operation Mode	:	Full Load
Temperature	:	24℃
Humidity	:	54%

The EUT and its simulators were placed on a turn table which was 0.8 meter above the ground. The EUT was set 3 m away from the transmitting antenna which was mounted on an antenna tower. Both horizontal and vertical polarization of the antenna were set on test. Each of the four sides of EUT must be faced this transmitting antenna and measured individually.

In order to judge the EUT performance, a CCD camera was used to monitor EUT screen.

All the scanning conditions were as follows**:**

Condition of Test		Remarks
1.	Field Strength	3 V/m (Severity Level 2)
2.	Radiated Signal	Modulated
3.	Scanning Frequency	80 - 1000 MHz
4.	Sweeping time of radiated	0.0015 decade/s
5.	Dwell Time	1.5 Sec.

Table 2: Radio Frequency Electromagnetic Field Immunity Test Result

Position	Modulated signal	Test level	Step	Result
Front	AM 80% 1kHz	3 V/m	1%	Pass
Right				Pass
Rear				Pass
Left				Pass

Remark: The EUT was operated as intended during and after the test.

5.3. Electrical Fast Transient/Burst Immunity Test

RESULT	**:**	**Pass**
Test procedure	:	CISPR 24:1997+A1:2001+A2:2002
Basic standard	:	EN 61000-4-4: 2004
Pulseform	:	Tr/Th＝5/50ns
Repetition Frequency	:	5kHz
Test Duration	:	60s
Performance criterion	:	B

Test Setup

Date of test	:	Aug. 13, 2008
Model No.	:	GT-81083-0506-1.0-W2E, GT-81083-0513-W2E
Input Voltage	:	AC 230V/50Hz
Operation Mode	:	Full Load
Temperature	:	24℃
Humidity	:	54%

The EUT and its simulators were placed 0.8m high above the ground reference plane which was a min. 2m*2m metallic sheet with 0.65mm minimum thickness. This reference ground plane shall project beyond the EUT by at least 0.1m on all sides and the minimum distance between EUT and all other conductive structure, except the ground plane beneath the EUT, shall be more than 0.5m.

1. For input and AC power ports:
   The EUT was connected to the power mains by using a coupling device which coupled the EFT interference signal to AC power lines. Both polarities of the test voltage should be applied during compliance test and the duration of the test can't less than 2 mains.

Table 3: Electrical Fast Transient/Burst Immunity Test Result

Coupling Ports		**Coupling Voltage**	**Inject Method**	**Result**
AC Power Ports	L	+/-1kV	Direct	Pass
	N	+/-1kV		Pass
	L、N	+/-1kV		Pass

Remark: No obvious change of function was found after test.

5.4. Surge Immunity Test

RESULT	**:**	**Pass**
Test procedure	:	CISPR 24:1997+A1:2001+A2:2002
Basic standard	:	EN 61000-4-5:1995+A1:2001
Pulseform	:	Tr/Td＝1.2/50us
Test Duration	:	60s
Performance criterion	:	B

Test Setup

Date of test	:	Aug. 13, 2008
Model No.	:	GT-81083-0506-1.0-W2E, GT-81083-0513-W2E
Input Voltage	:	AC 230V/50Hz
Operation Mode	:	Full Load
Temperature	:	24℃
Humidity	:	54%

2Ω effective output impedance of the generator was used for L-N test.12Ω effective output impedance of the generator was used for L-PE,N-PE test.

5 positive and 5 negative (polarity) tests were applied successively synchronized to the voltage phase 0°, 90°, 180°, 270° to L-N respectively. The repetition rate was 1 per minute during test.

1. For input and AC power ports:
   The EUT was connected to the power mains by using a coupling device which coupled the surge interference signal to AC power lines. Both polarities of the test voltage should be applied during compliance test and the duration was 1 minute.
2. For signal lines and control lines ports:
   None.
3. For DC input and DC output power ports:
   None.

Table 4: Surge Immunity Test Result

Coupling Ports		**Coupling Voltage**	**Coupling Phase / Result**			
			0°	**90°**	**180°**	**270°**
AC power ports	L-N	+/-1kV	Pass	Pass	Pass	Pass

Remark: No obvious change of function was found after test.

5.5. Injected Currents Susceptibility Test

RESULT	**:**	**Pass**
Test procedure	:	CISPR 24:1997+A1:2001+A2:2002
Basic standard	:	EN 61000-4-6:1996+A1:2001
Test specification	:	3V(r.m.s) unmodulated,1kHz sinusoidal signal, AM 80%, 0.15MHz ~ 80MHz
Performance criterion	:	A

Test Setup

Date of test	:	Aug. 13, 2008
Model No.	:	GT-81083-0506-1.0-W2E, GT-81083-0513-W2E
Input Voltage	:	AC 230V/50Hz
Operation Mode	:	Full Load
Temperature	:	24℃
Humidity	:	54%

The EUT were placed on an insulating support 0.1m high above a ground reference plane. CDN (coupling and decoupling device) was placed on the ground plane about 0.3m from EUT. Cables between CDN and EUT were as short as possible, and their height above the ground reference plane were between 30 and 50 mm (where possible).

The frequency range was swept from 150KHz to 80MHz using 3V signal level, and with the disturbance signal 80% amplitude modulated with a 1KHz sine wave.

The rate of sweep shall not exceed $1.5*10^{-3}$decades/s.Where the frequency was swept incrementally, the step size shall not exceed 1% of the start and thereafter 1% of the preceding frequency value.

Table 5: Injected Currents Susceptibility Test Result

Coupling ports	**Voltage (r.m.s)**	**Modulation**	**Freq. step**	**Dwell time**	**Coupling method**	**Result**
AC power ports	3V	1kHz AM 80%	1%	1.5s	CDN	Pass
DC power ports	/		/	/	EM Clamp	/
Signal/control	/		/	/	EM Clamp	/

Remark: The EUT was operated as intended during and after the test.

5.6. Power Frequency Magnetic Field Immunity Test

RESULT	**:**	**Pass**
Test procedure	:	CISPR 24:1997+A1:2001+A2:2002
Basic standard	:	EN 61000-4-8:1993+A1:2001
Test specification	:	1 A/m
Performance criterion	:	A

Test Setup

Date of test	:	Aug. 13, 2008
Model No.	:	GT-81083-0506-1.0-W2E, GT-81083-0513-W2E
Input Voltage	:	AC 230V/50Hz
Operation Mode	:	Full Load
Temperature	:	24℃
Humidity	:	54%

The EUT was subjected to the test magnetic field by using the induction coil of standard dimensions (1m*1m). The induction coil then was rotated by 90° in order to expose the EUT to the test field with different orientations.

Table 6: Power Frequency Magnetic Field Immunity Test Result

Test Level	Testing Duration	Coil Orientation	Criterion	Result
1A/m	5 mins	X	A	Pass
1A/m	5 mins	Y	A	Pass
1A/m	5 mins	Z	A	Pass

Remark: The EUT was operated as intended during and after the test.

5.7. Voltage Dips and Short Interruptions Immunity Test

RESULT	**:**	**Pass**
Test procedure	:	CISPR 24:1997+A1:2001+A2:2002
Basic standard	:	EN61000-4-11: 2004
Test specification	:	0%UT / 0.5P, Criterion: B
		70%UT / 25P, Criterion: C
		0%UT / 250P, Criterion: C

Test Setup

Date of test	:	Aug. 13, 2008
Model No.	:	GT-81083-0506-1.0-W2E, GT-81083-0513-W2E
Input Voltage	:	AC 230V/50Hz
Operation Mode	:	Full Load
Temperature	:	24℃
Humidity	:	54%

The interruptions was introduced at selected phase angles with specified duration. Recorded any degradation of performance.

Table 7: Voltage Dips and Short Interruptions Immunity Test Result

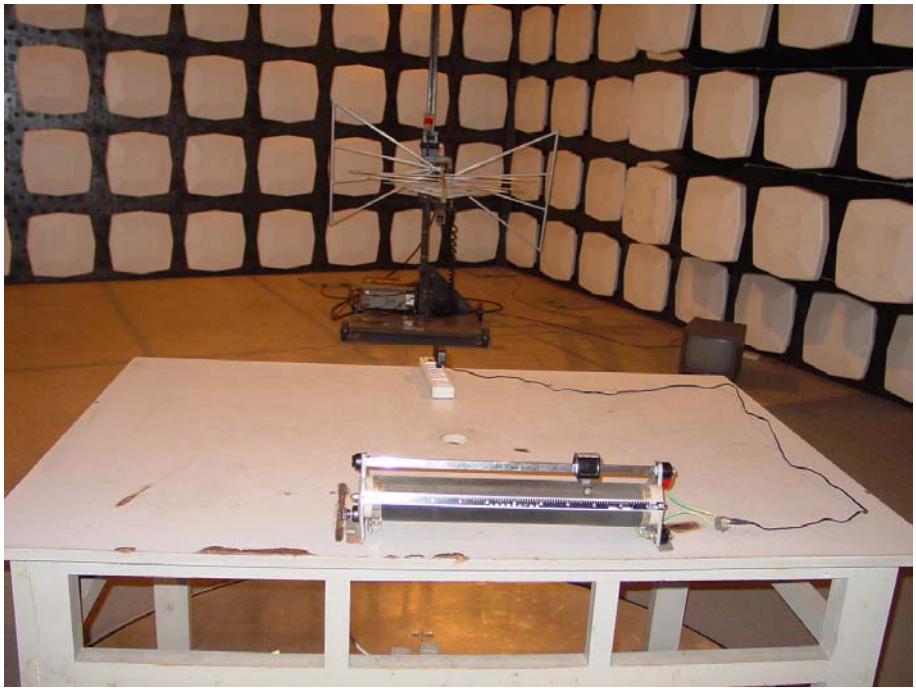
Test Level % UT	Voltage Dips & Short Interruptions % UT	Duration (in period)	Criterion	Result
0	100	0.5P	B	PASS
70	30	25P	C	PASS
0	100	250P	C	PASS

Remark: No obvious change of function was found after test.

6. PHOTOGRAPHS OF TEST SET-UP

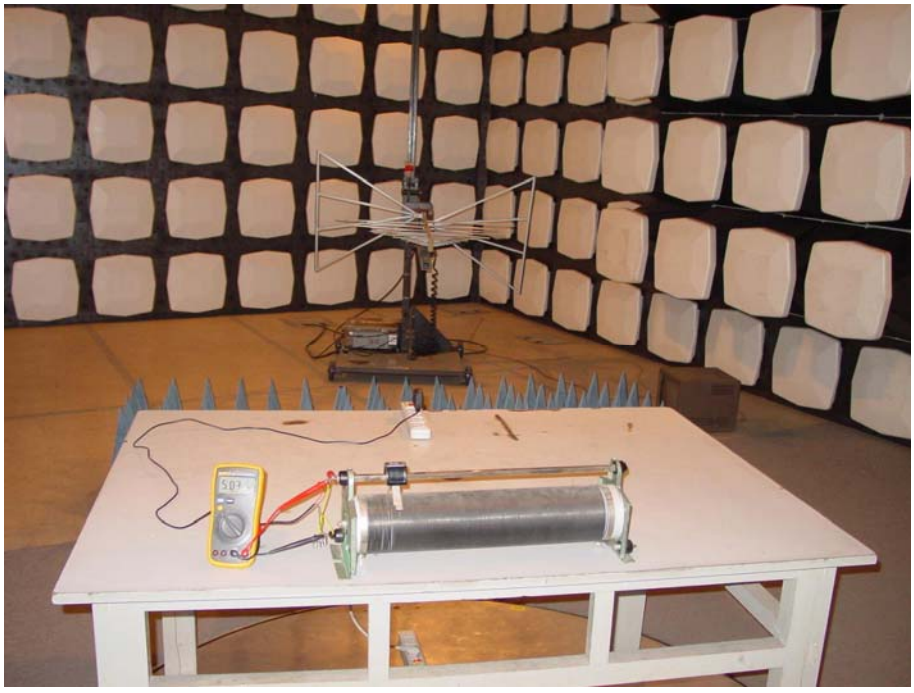
6.1.Set-up for conducted emission at the mains terminals test

6.2.Set-up for radiated emission test



6.3.Set-up for electrostatic discharge immunity test

6.4.Set-up for radio frequency electromagnetic field immunity test



6.5.Set-up for electrical fast transient/burst immunity test

6.6.Set-up for surge immunity test

6.7.Set-up for injected currents susceptibility test

6.8.Set-up for power frequency magnetic field immunity test

6.9.Set-up for voltage dips and short interruptions immunity test

7. PHOTOGRAPHS OF THE EUT

Figure 1
General Appearance of the EUT

Figure 2
General Appearance of the EUT

Figure 3
General Appearance of the PCB
Model No.: GT-81083-0506-1.0-W2E

Figure 4
General Appearance of the PCB
Model No.: GT-81083-0506-1.0-W2E

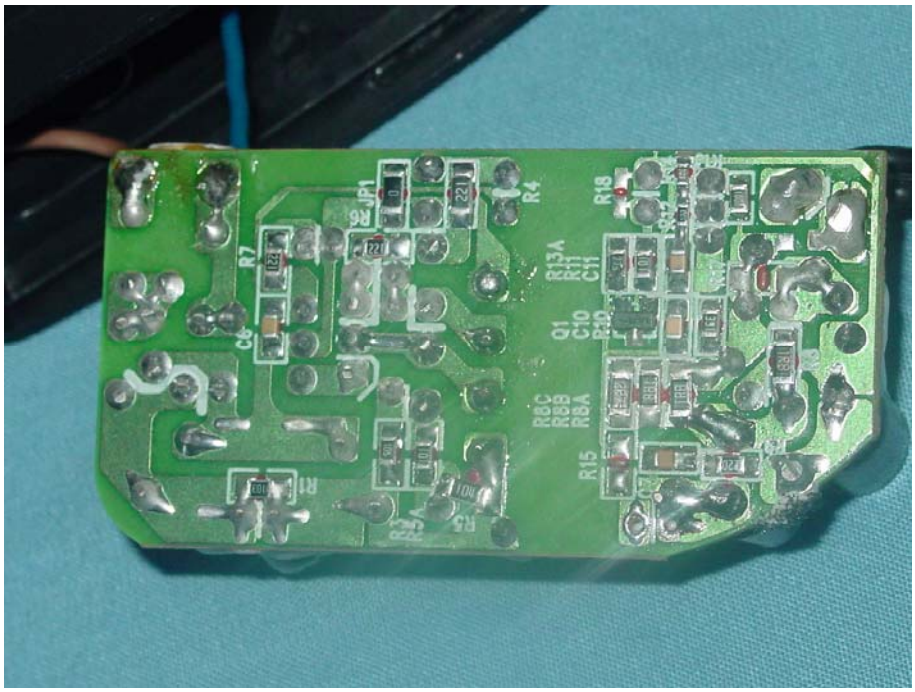
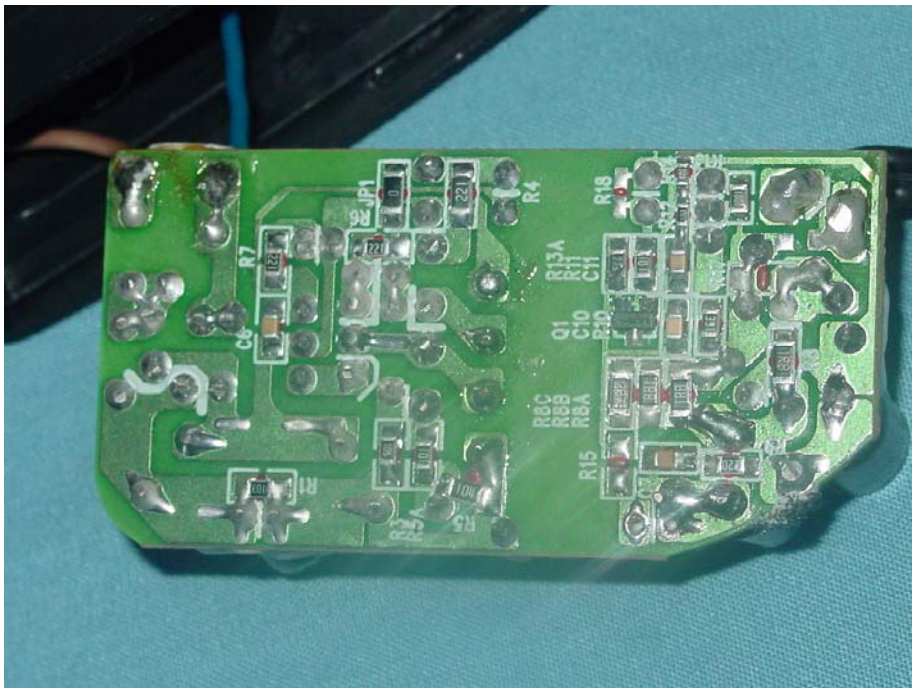


Figure 5
General Appearance of the PCB
Model No.: GT-81083-0513-W2E

Figure 6
General Appearance of the PCB
Model No.: GT-81083-0513-W2E



APPENDIX I

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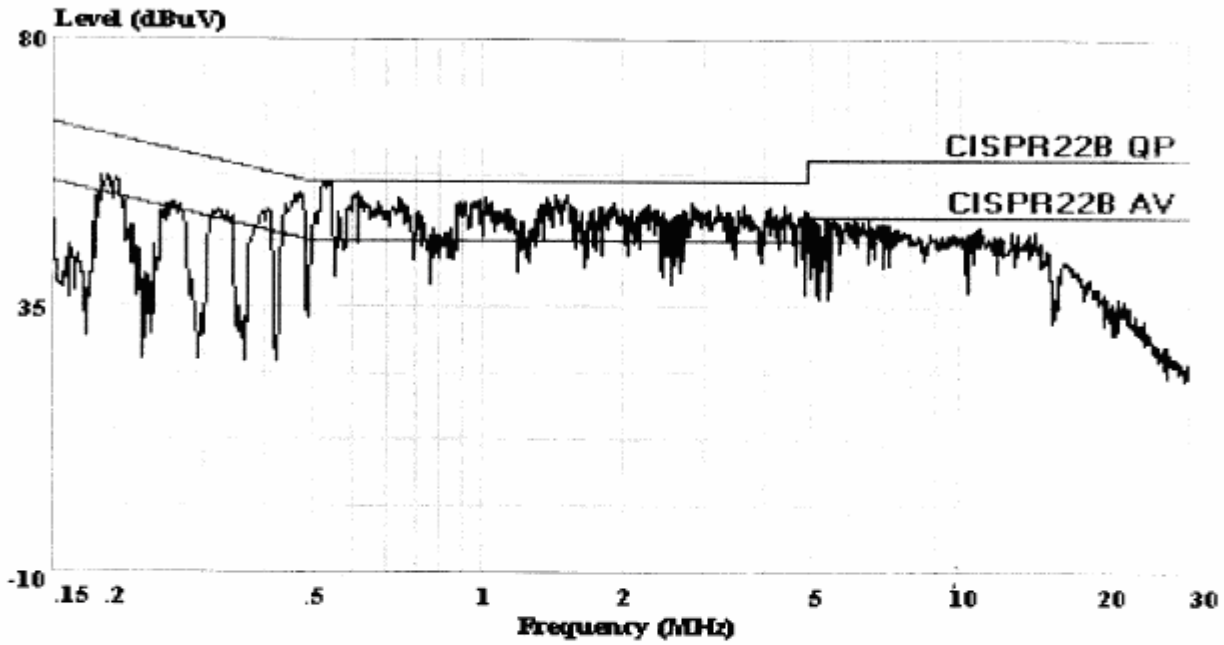

Site : Shielded Room 1#
Condition : CISPR22B AV FACTOR NEUTRAL
EUT : Switching Adapter
Power : AC 230V/50Hz
M/N : GT-81083-0506-1.0-W2E
Comment : Temp:24'C Humi:54%
Test Engineer: Mark
Memo : Full load

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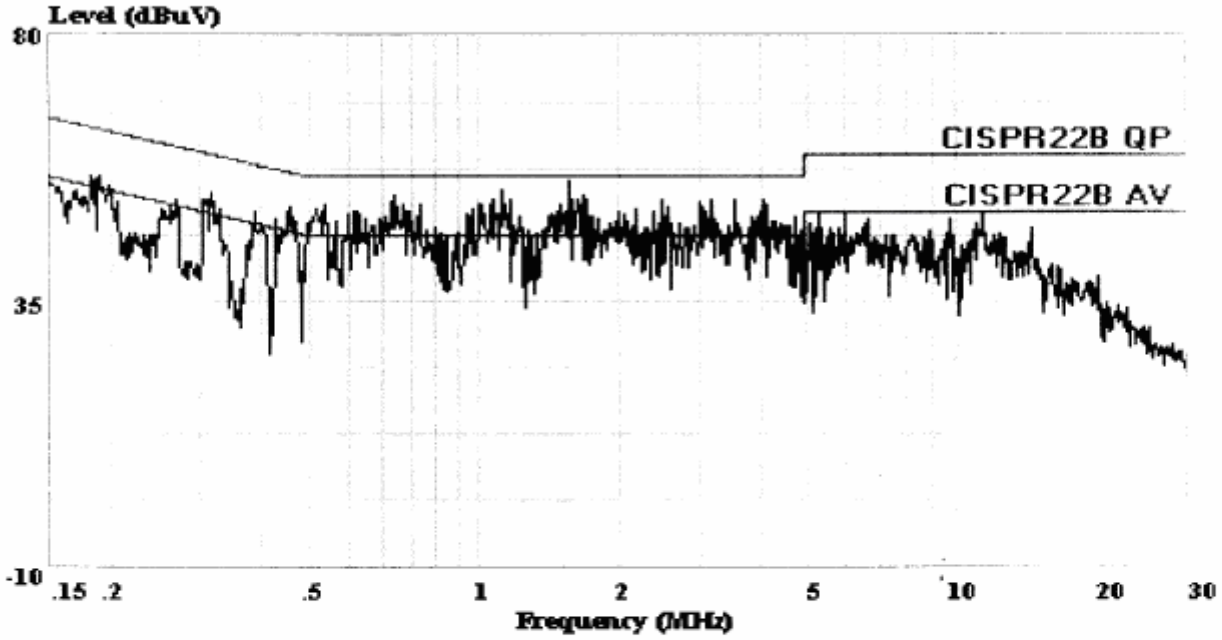
Data#: 64 File#: D:\Conduction\D\DeeVan.emi Date: 2008-08-13 Time: 20:53:57



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Condition : CISPR22B AV FACTOR LINE
EUT : Switching Adapter
Power : AC 230V/50Hz
M/N : GT-81083-0506-1.0-W2E
Comment : Temp:24'C Humi:54%
Test Engineer: Mark
Memo : Full load

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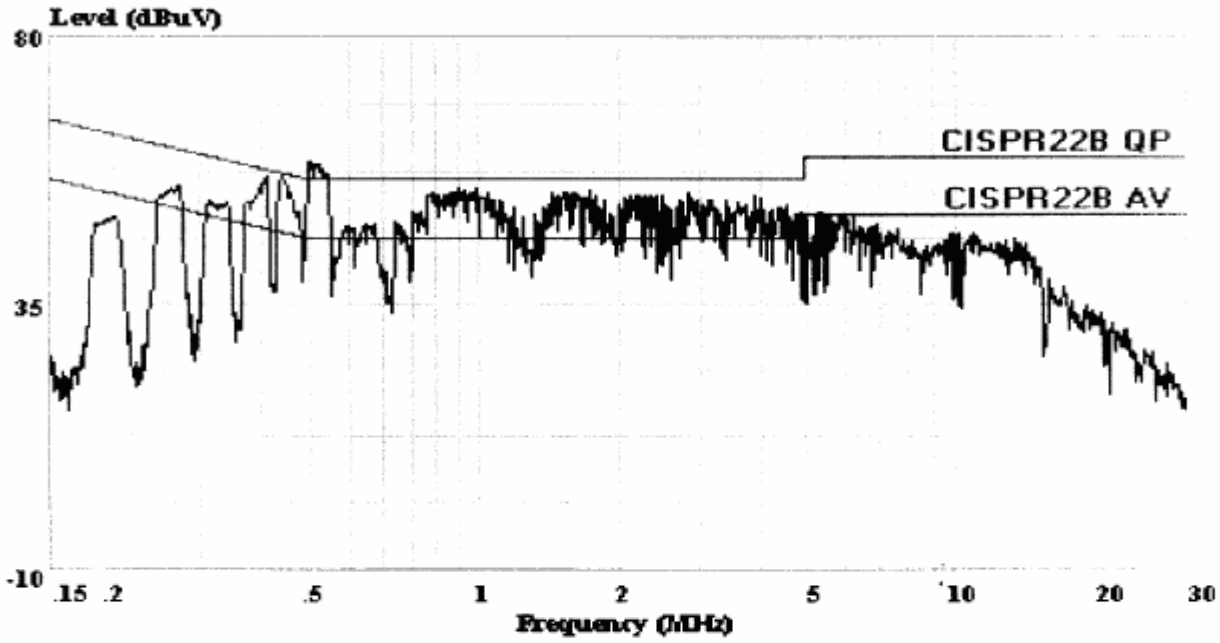

Site : Shielded Room 1#
Condition : CISPR22B AV FACTOR NEUTRAL
EUT : Switching Adapter
Power : AC 230V/50Hz
M/N : GT-81083-0506-1.0-W2E
Comment : Temp:24'C Humi:54%
Test Engineer: Mark
Memo : Half load

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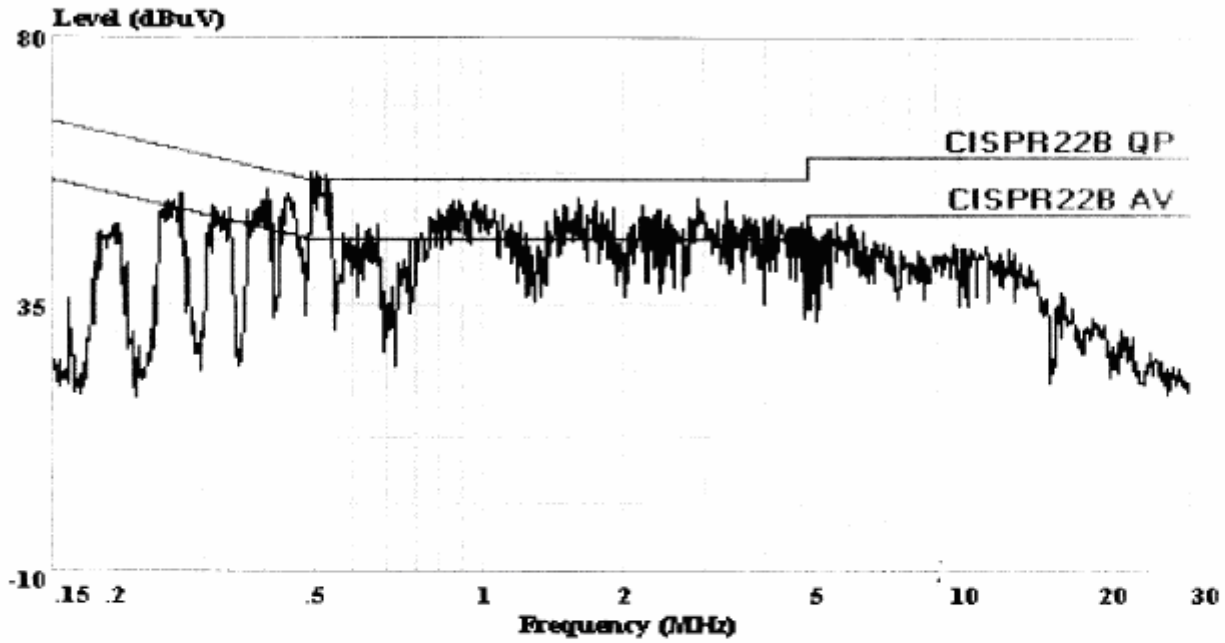

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Condition : CISPR22B AV FACTOR LINE
EUT : Switching Adapter
Power : AC 230V/50Hz
M/N : GT-81083-0506-1.0-W2E
Comment : Temp:24'C Humi:54%
Test Engineer: Mark
Memo : Half load

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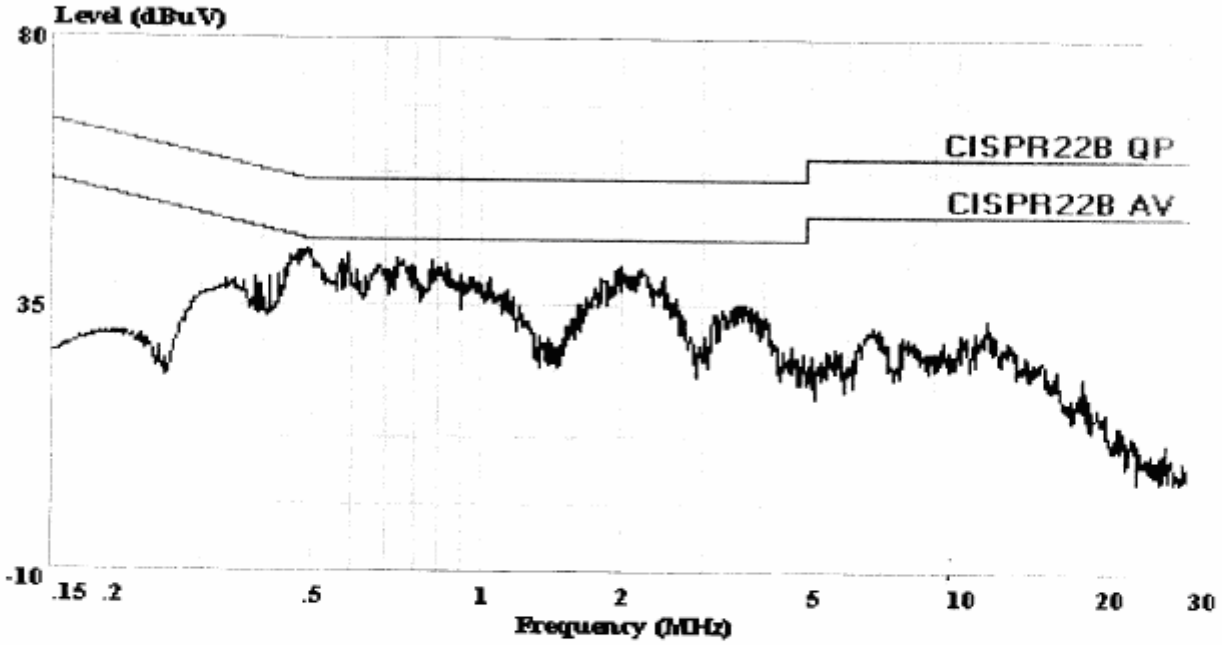

Site : Shielded Room 1#
Condition : CISPR22B AV FACTOR NEUTRAL
EUT : Switching Adapter
Power : AC 230V/50Hz
M/N : GT-81083-0506-1.0-W2E
Comment : Temp:24'C Humi:54%
Test Engineer: Mark
Memo : No load

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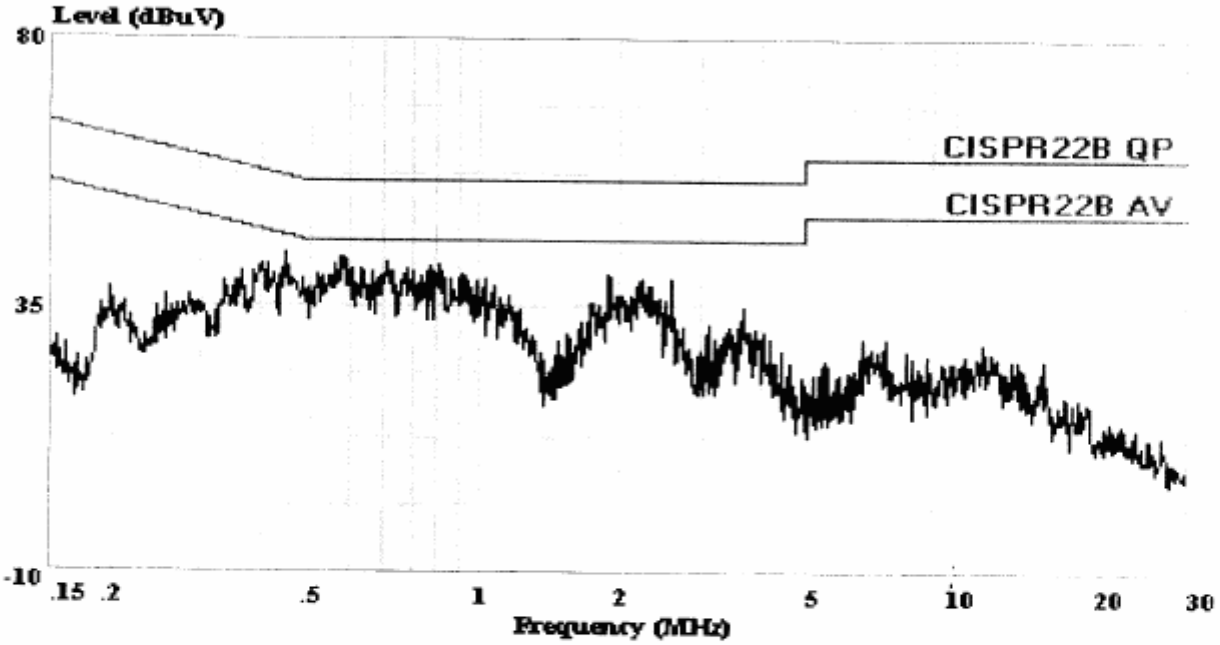

Site : Shielded Room 1#
Condition : CISPR22B AV FACTOR LINE
EUT : Switching Adapter
Power : AC 230V/50Hz
M/N : GT-81083-0506-1.0-W2E
Comment : Temp:24'C Humi:54%
Test Engineer: Mark
Memo : No load

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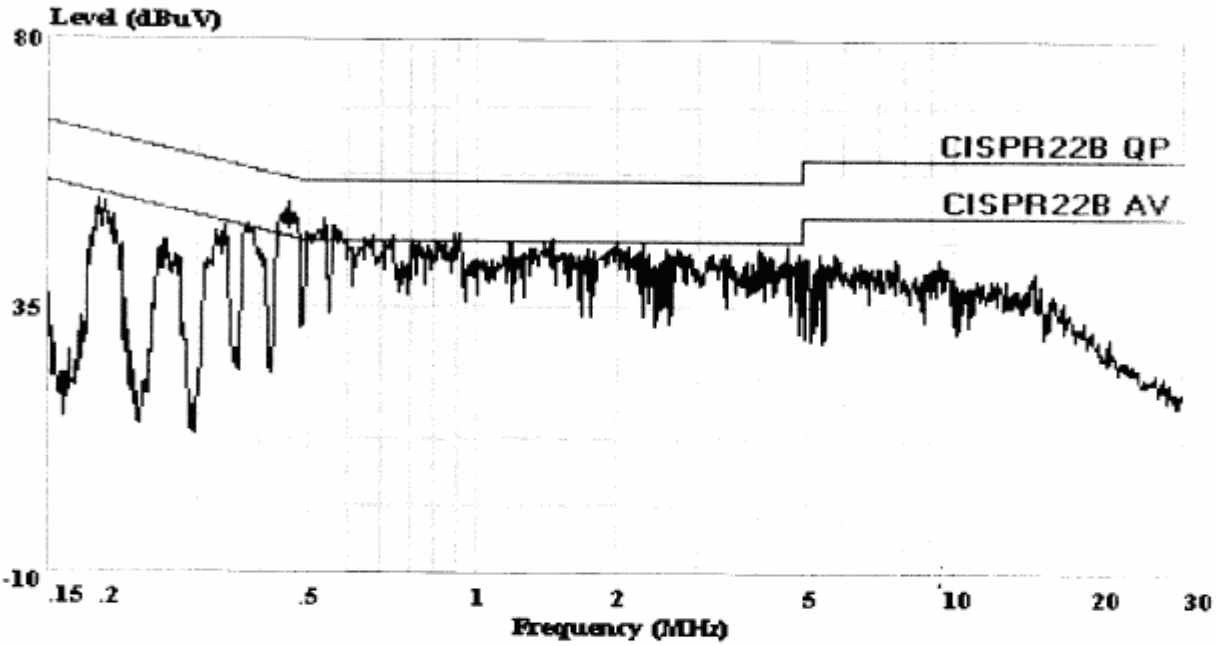
Data#: 74 File#: D:\Conduction\D\DeeVan.emi Date: 2008-08-13 Time: 21:18:34



Site : Shielded Room 1#
Condition : CISPR22B AV FACTOR NEUTRAL
EUT : Switching Adapter
Power : AC 100V/60Hz
M/N : GT-81083-0506-1.0-W2E
Comment : Temp:24'C Humi:54%
Test Engineer: Mark
Memo : Full load

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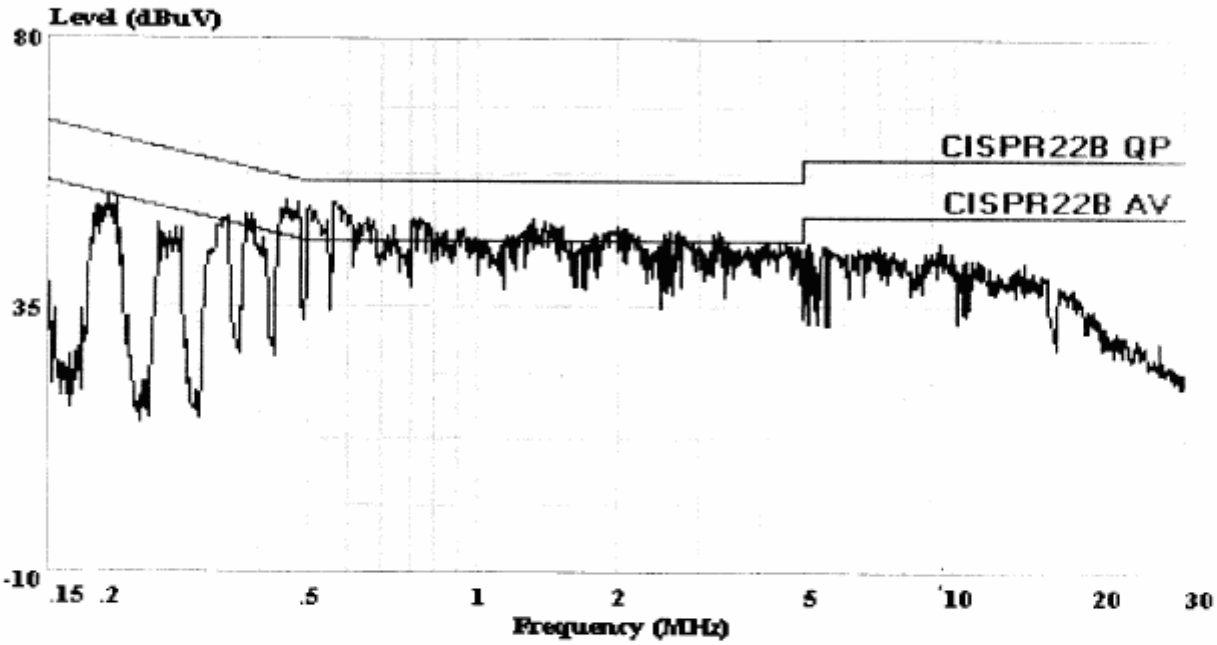
Data#: 73 File#: D:\Conduction\D\DeeVan.emi Date: 2008-08-13 Time: 21:16:30



Site : Shielded Room 1#
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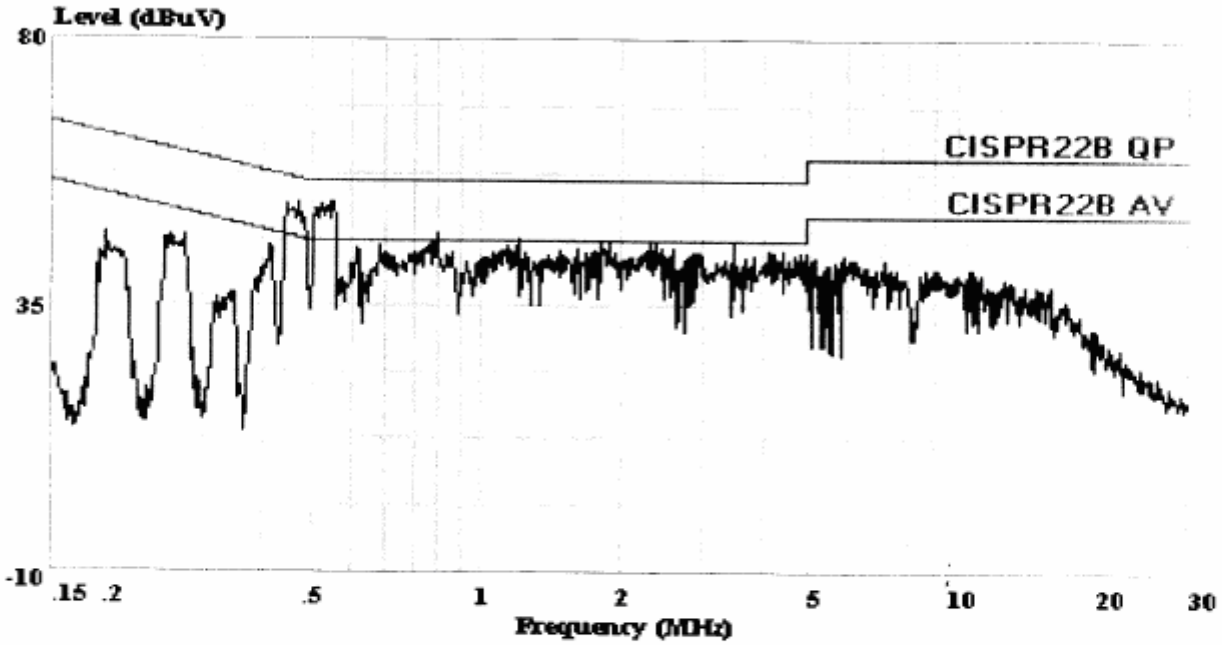
Data#: 71 File#: D:\Conduction\D\DeeVan.emi Date: 2008-08-13 Time: 21:12:44



Site : Shielded Room 1#
Condition : CISPR22B AV FACTOR NEUTRAL
EUT : Switching Adapter
Power : AC 100V/60Hz
M/N : GT-81083-0506-1.0-W2E
Comment : Temp:24'C Humi:54%
Test Engineer: Mark
Memo : Half load

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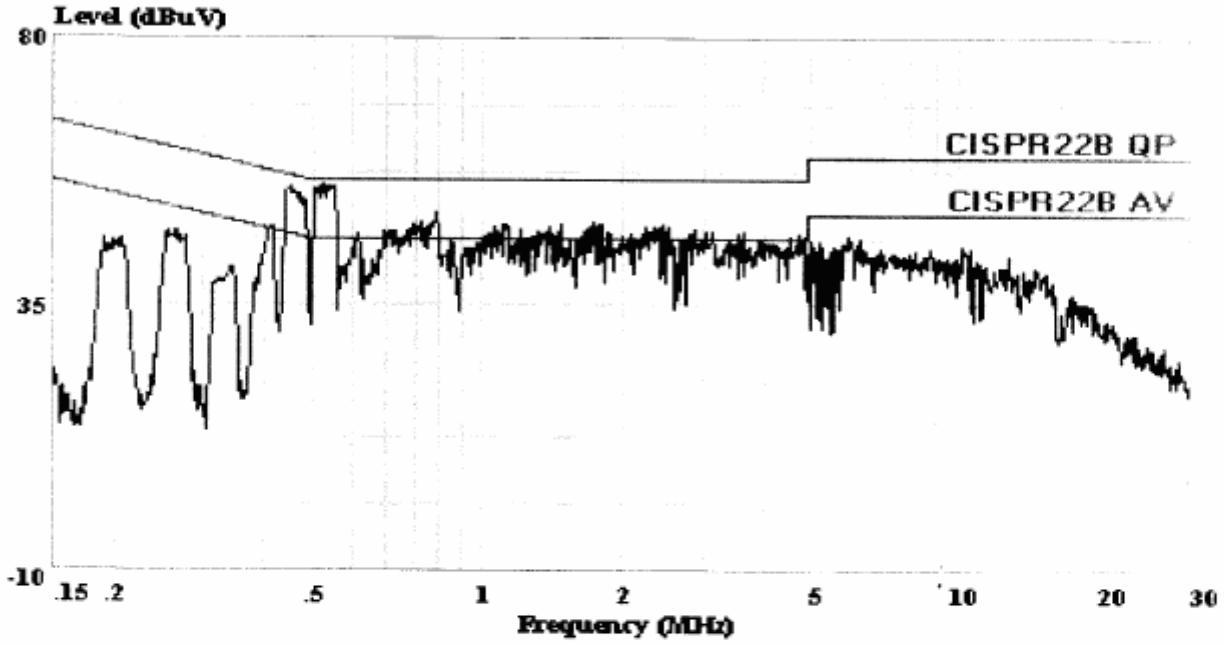
Data#: 72 File#: D:\Conduction\D\DeeVan.emi Date: 2008-08-13 Time: 21:14:34



Site : Shielded Room 1#
Condition : CISPR22B AV FACTOR LINE
EUT : Switching Adapter
Power : AC 100V/60Hz
M/N : GT-81083-0506-1.0-W2E
Comment : Temp:24'C Humi:54%
Test Engineer: Mark
Memo : Half load

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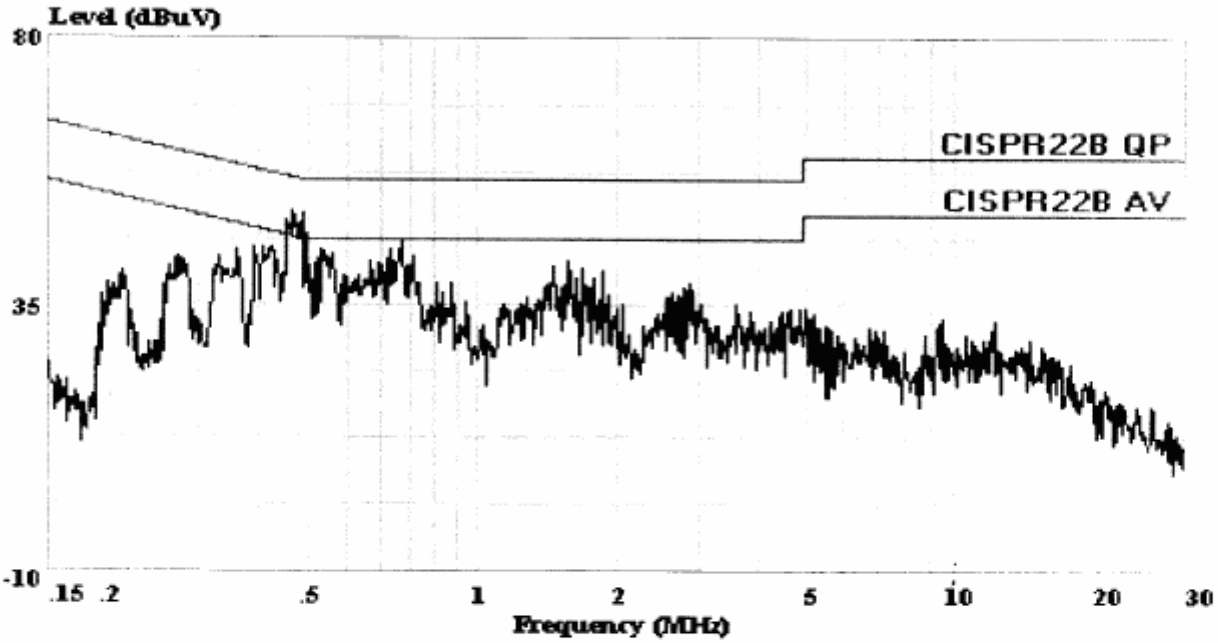
Data#: 70 File#: D:\Conduction\D\DeeVan.emi Date: 2008-08-13 Time: 21:10:38



Site : Shielded Room 1#
Condition : CISPR22B AV FACTOR NEUTRAL
EUT : Switching Adapter
Power : AC 100V/60Hz
M/N : GT-81083-0506-1.0-W2E
Comment : Temp:24'C Humi:54%
Test Engineer: Mark
Memo : No load

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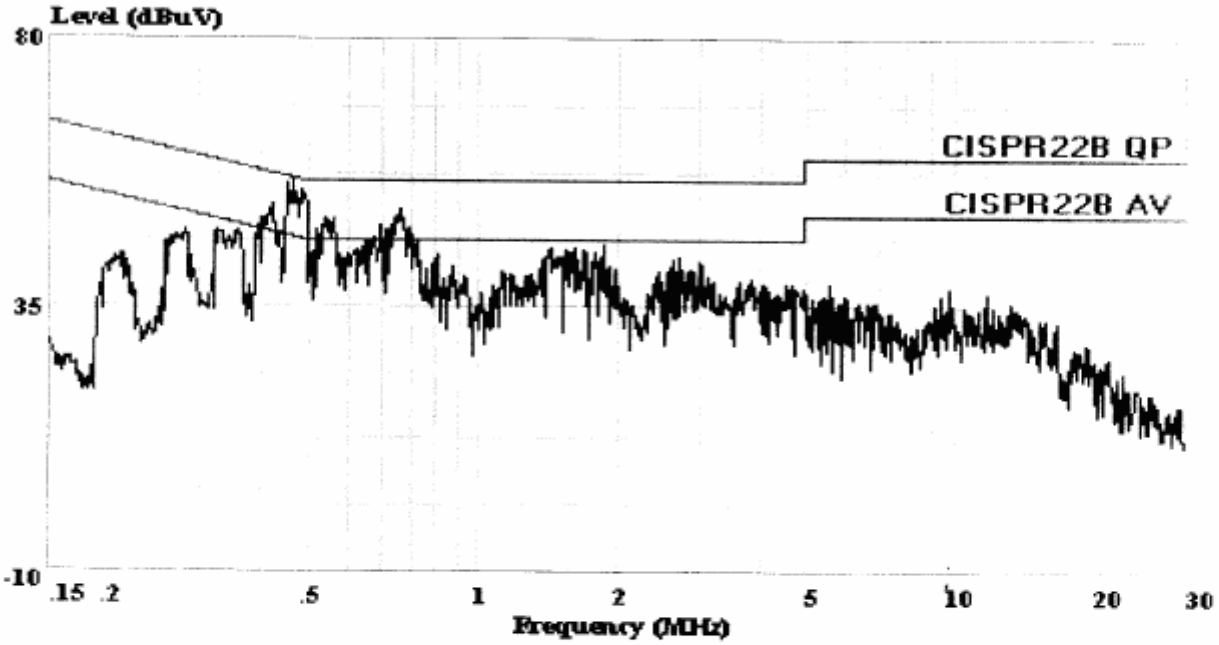
Data#: 69 File#: D:\Conduction\D\DeeVan.emi Date: 2008-08-13 Time: 21:08:44



Site : Shielded Room 1#
Condition : CISPR22B AV FACTOR LINE
EUT : Switching Adapter
Power : AC 100V/60Hz
M/N : GT-81083-0506-1.0-W2E
Comment : Temp:24'C Humi:54%
Test Engineer: Mark
Memo : No load

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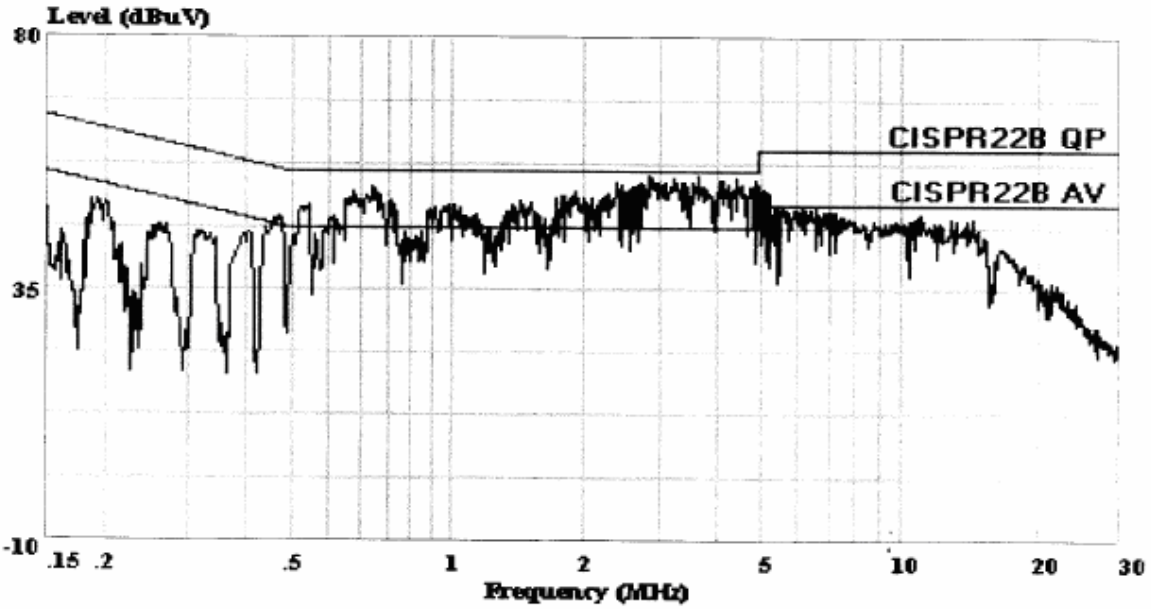
Data#: 91 File#: D:\Conduction\D\DeeVan.emi Date: 2008-08-13 Time: 22:30:12



Site : Shielded Room 1#
Condition : CISPR22B AV FACTOR NEUTRAL
EUT : Switching Adapter
Power : AC 230V/50Hz
M/N : GT-81083-0513-W2E
Comment : Temp:24'C Humi:54%
Test Engineer: Mark
Memo : Full load

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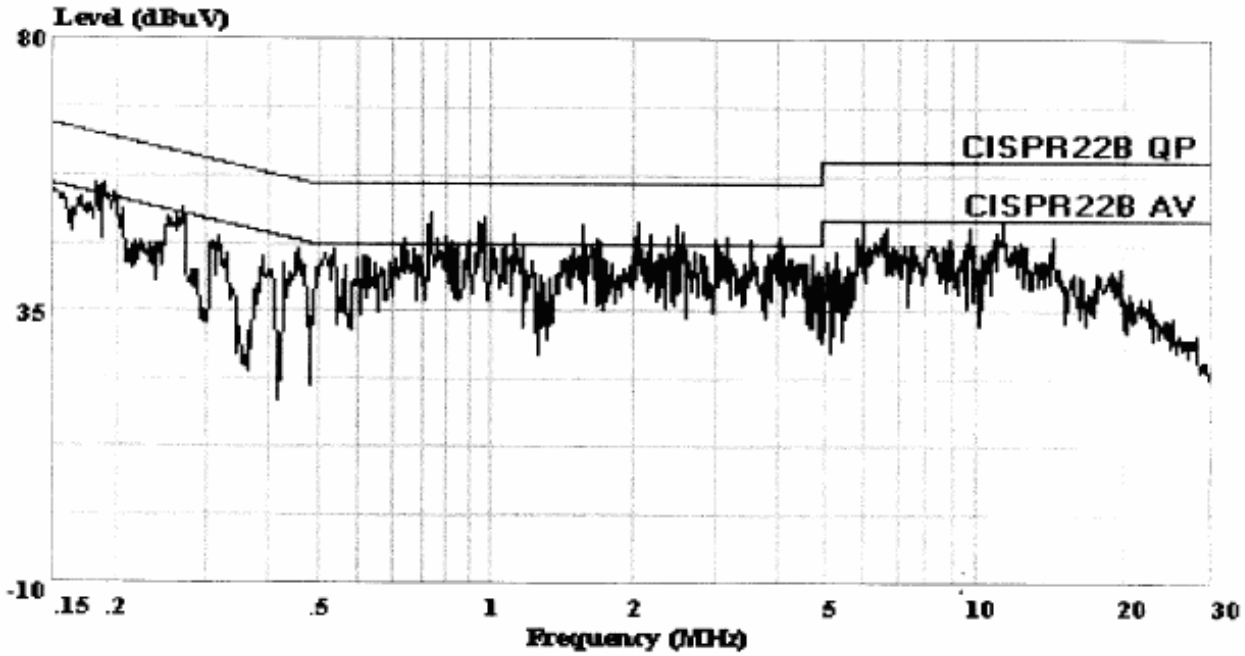
Data#: 92 File#: D:\Conduction\D\DeeVan.emi Date: 2008-08-13 Time: 22:33:45



Site : Shielded Room 1#
Condition : CISPR22B AV FACTOR LINE
EUT : Switching Adapter
Power : AC 230V/50Hz
M/N : GT-81083-0513-W2E
Comment : Temp:24'C Humi:54%
Test Engineer: Mark
Memo : Full load

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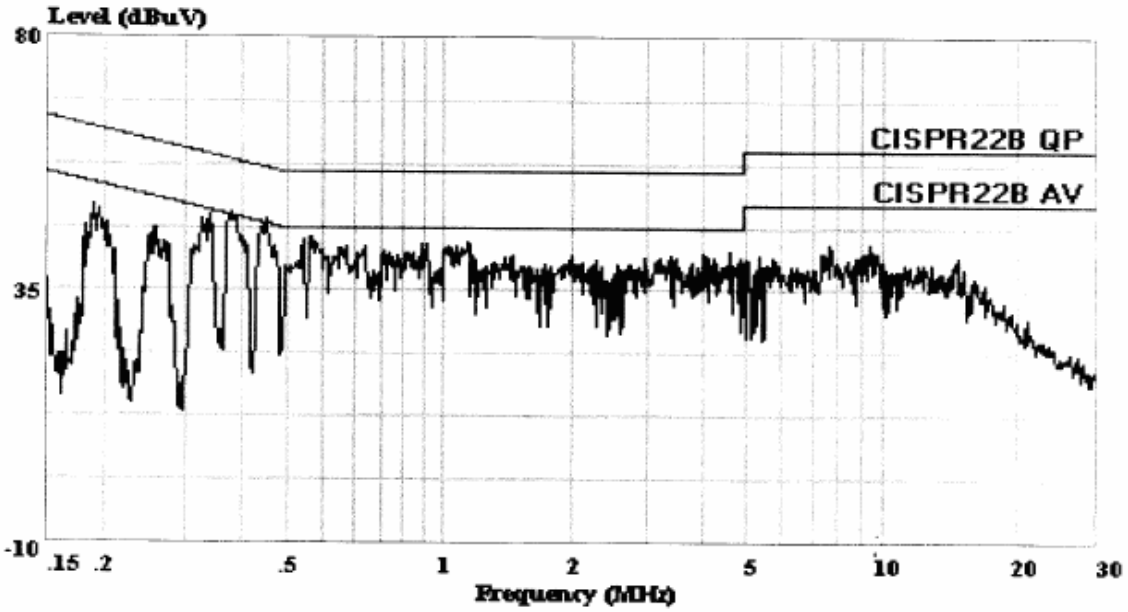
Data#: 94 File#: D:\Conduction\D\DeeVan.emi Date: 2008-08-13 Time: 22:40:25



Site : Shielded Room 1#
Condition : CISPR22B AV FACTOR NEUTRAL
EUT : Switching Adapter
Power : AC 100V/60Hz
M/N : GT-81083-0513-W2E
Comment : Temp:24'C Humi:54%
Test Engineer: Mark
Memo : Full load

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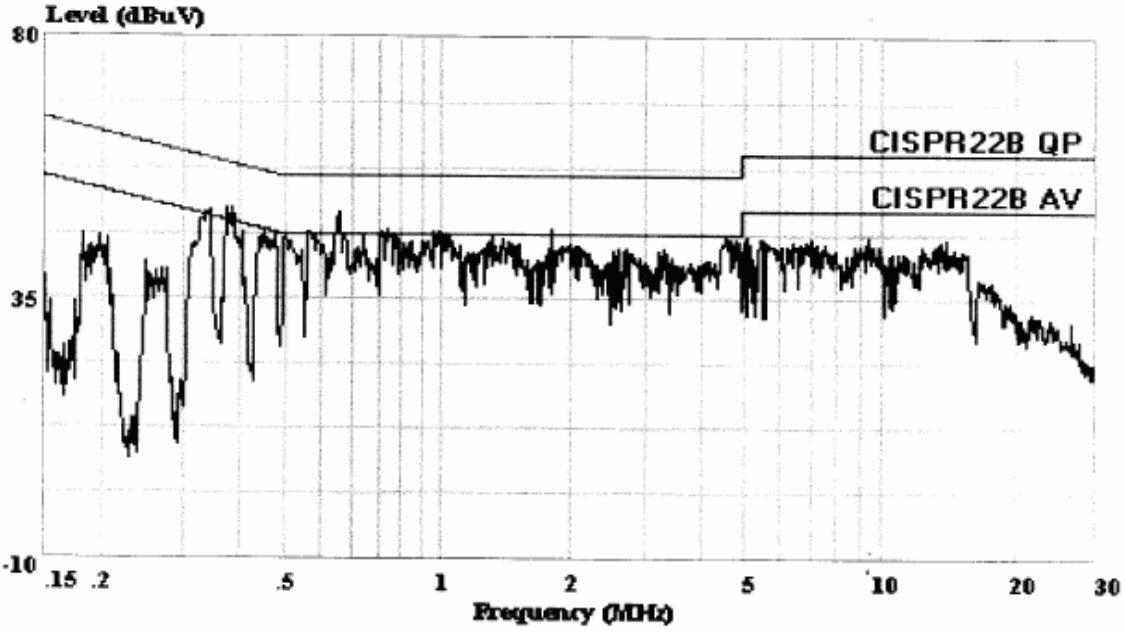
Data#: 93 File#: D:\Conduction\D\DeeVan.emi Date: 2008-08-13 Time: 22:37:02



Site : Shielded Room 1#
Condition : CISPR22B AV FACTOR LINE
EUT : Switching Adapter
Power : AC 100V/60Hz
M/N : GT-81083-0513-W2E
Comment : Temp:24'C Humi:54%
Test Engineer: Mark
Memo : Full load

APPENDIX II

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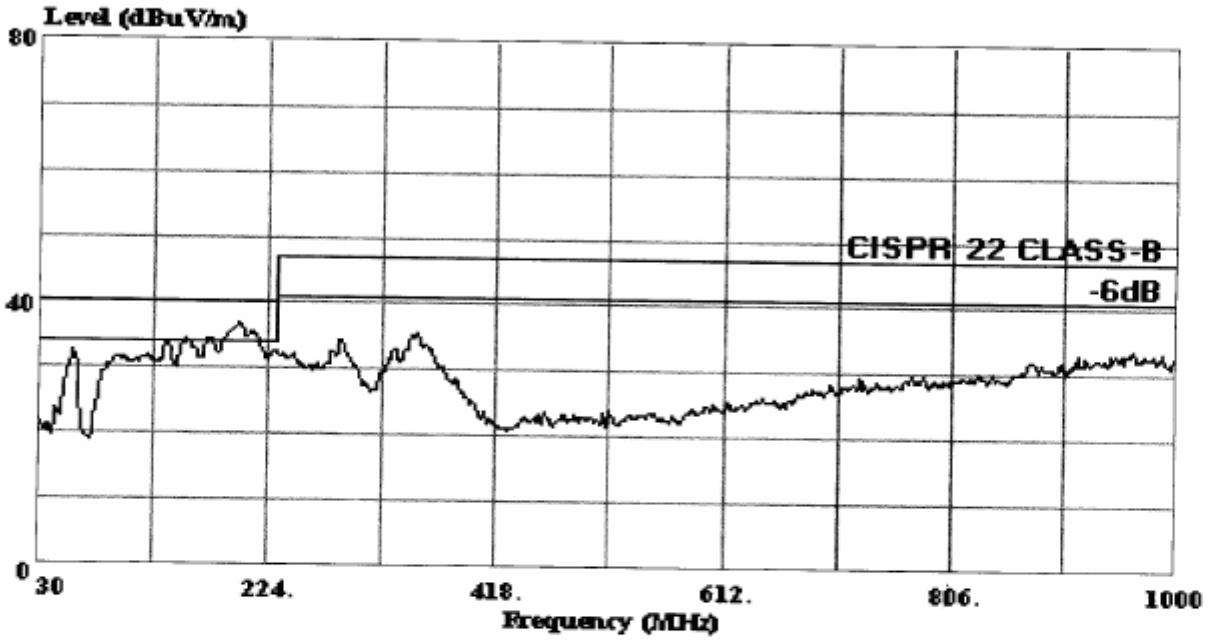
Data#: 112 File#: E:\Radiation\D\Dve.emi Date: 2008-08-13 Time: 20:07:07



Site : 966 CHAMBER ROOM
Condition : CISPR 22 CLASS-B 3m 3142B HORIZONTAL
EUT : Switching Adapter
Power : AC 230V/50Hz
M/N : GT-81083-0506-1.0-W2E
Test Engineer: Mark
Comment : Temp:25'C Humi:55%
Memo : Full load

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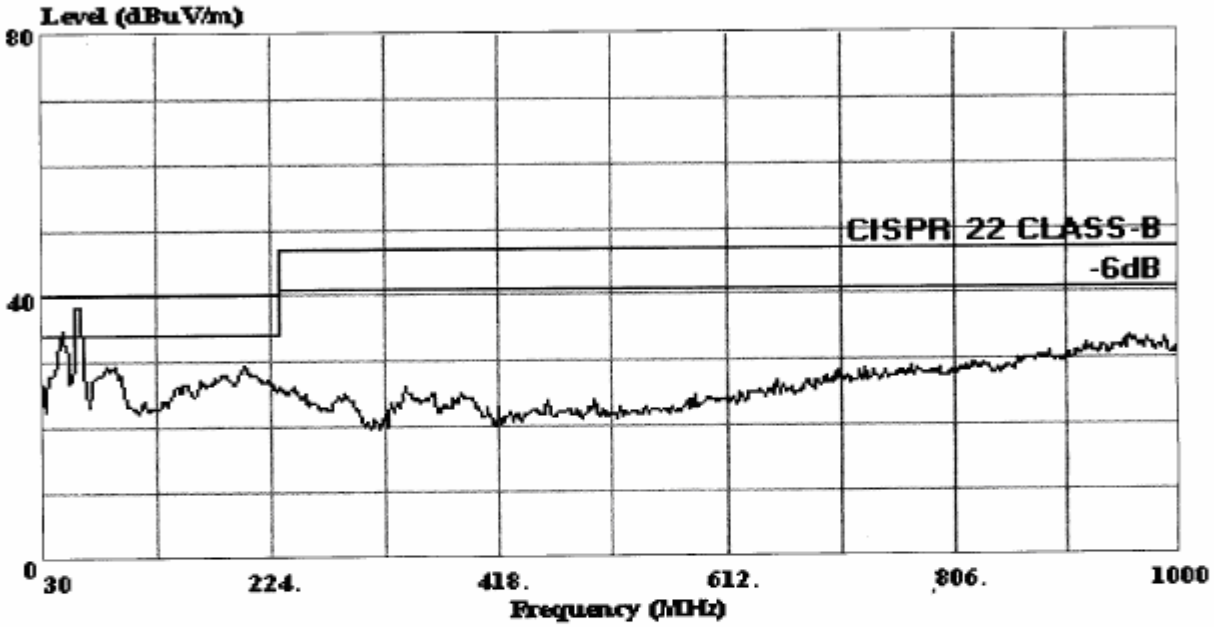
Data#: 113 File#: E:\Radiation\D\Dve.emi Date: 2008-08-13 Time: 20:07:29



Site : 966 CHAMBER ROOM
Condition : CISPR 22 CLASS-B 3m 3142B VERTICAL
EUT : Switching Adapter
Power : AC 230V/50Hz
M/N : GT-81083-0506-1.0-W2E
Test Engineer: Mark
Comment : Temp:25'C Humi:55%
Memo : Full load

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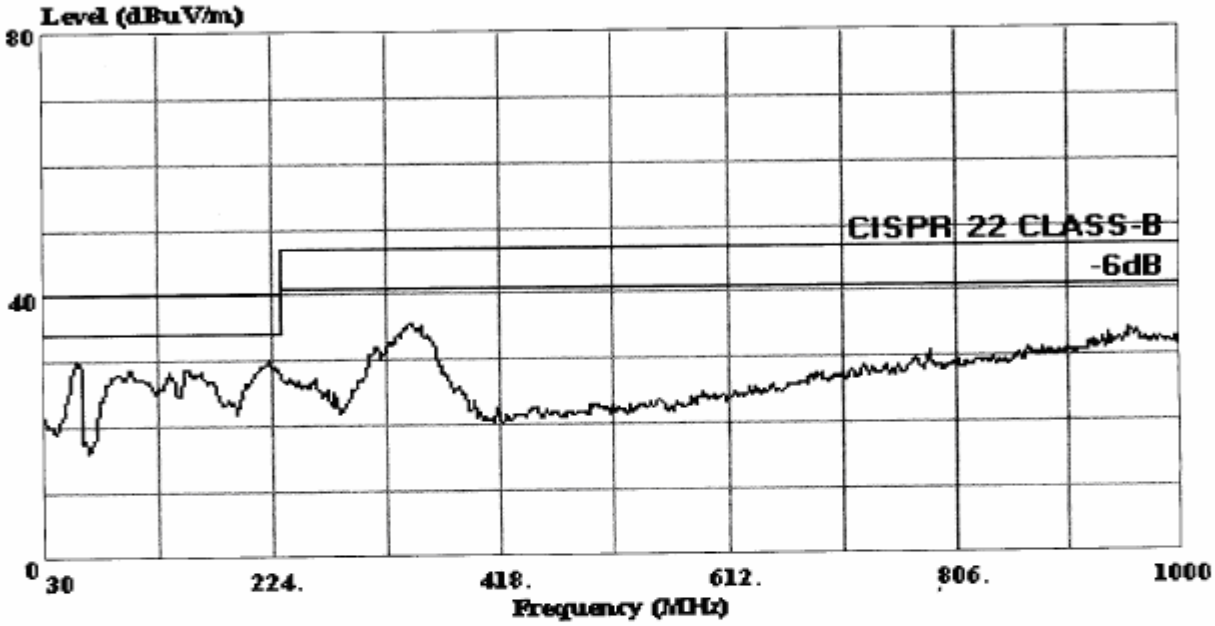
Data#: 115 File#: E:\Radiation\D\Dve.emi Date: 2008-08-13 Time: 20:11:07



Site : 966 CHAMBER ROOM
Condition : CISPR 22 CLASS-B 3m 3142B HORIZONTAL
EUT : Switching Adapter
Power : AC 230V/50Hz
M/N : GT-81083-0506-1.0-W2E
Test Engineer: Mark
Comment : Temp:25'C Humi:55%
Memo : Half load

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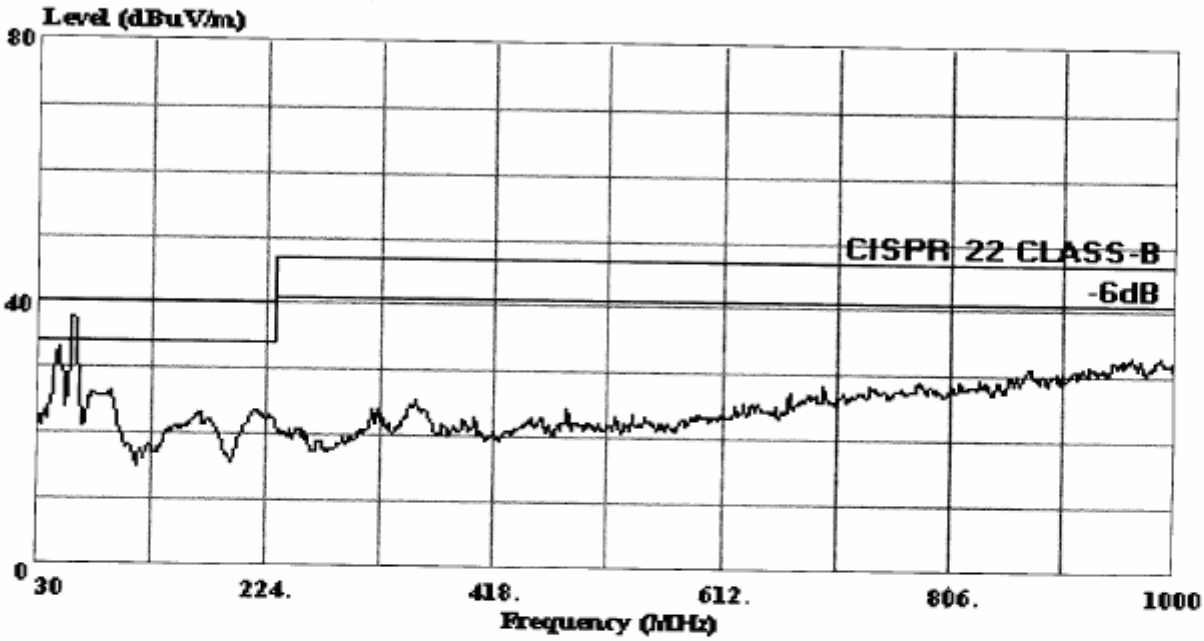
Data#: 114 File#: E:\Radiation\D\Dve.emi Date: 2008-08-13 Time: 20:09:54



Site : 966 CHAMBER ROOM
Condition : CISPR 22 CLASS-B 3m 3142B VERTICAL
EUT : Switching Adapter
Power : AC 230V/50Hz
M/N : GT-81083-0506-1.0-W2E
Test Engineer: Mark
Comment : Temp:25'C Humi:55%
Memo : Half load

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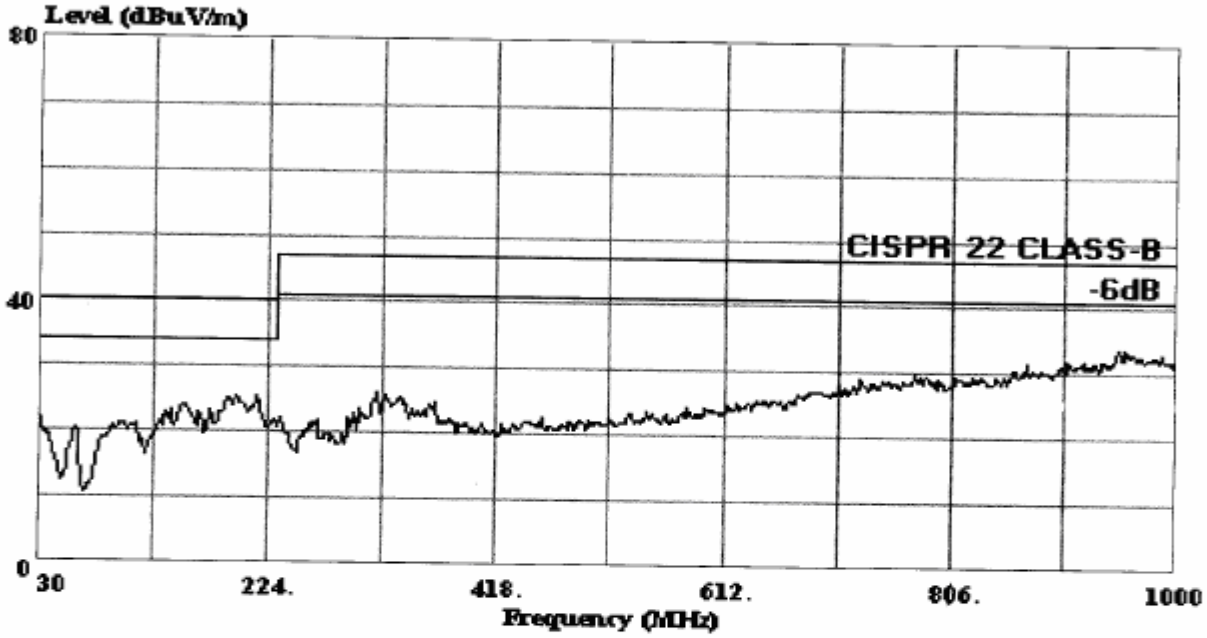
Data#: 116 File#: E:\Radiation\D\Dve.emi Date: 2008-08-13 Time: 20:12:47



Site : 966 CHAMBER ROOM
Condition : CISPR 22 CLASS-B 3m 3142B HORIZONTAL
EUT : Switching Adapter
Power : AC 230V/50Hz
M/N : GT-81083-0506-1.0-W2E
Test Engineer: Mark
Comment : Temp:25'C Humi:55%
Memo : No load

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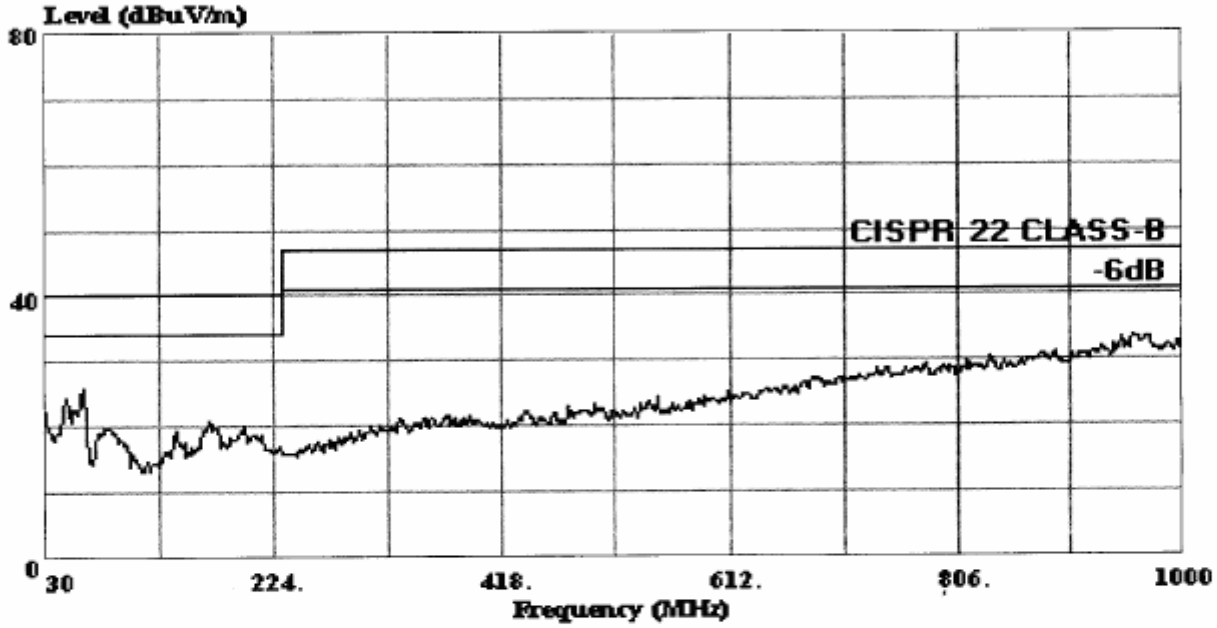
Data#: 117 File#: E:\Radiation\D\Dve.emi Date: 2008-08-13 Time: 20:13:35



Site : 966 CHAMBER ROOM
Condition : CISPR 22 CLASS-B 3m 3142B VERTICAL
EUT : Switching Adapter
Power : AC 230V/50Hz
M/N : GT-81083-0506-1.0-W2E
Test Engineer: Mark
Comment : Temp:25'C Humi:55%
Memo : No load

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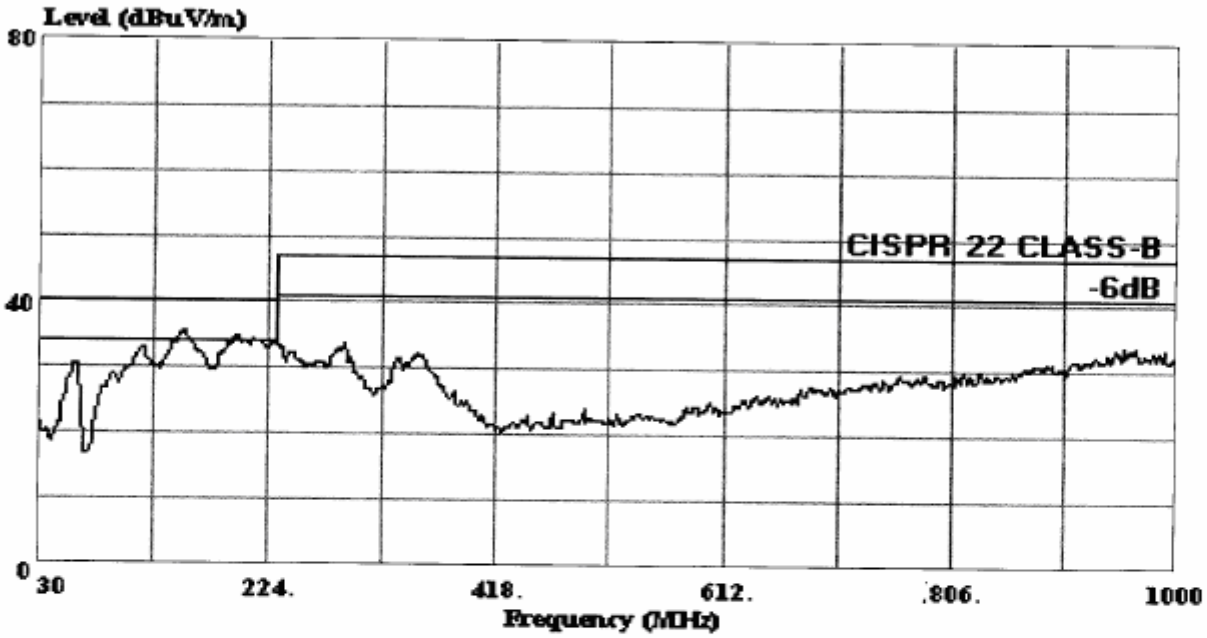
Data#: 124 File#: E:\Radiation\D\Dve.emi Date: 2008-08-13 Time: 20:25:09



Site : 966 CHAMBER ROOM
Condition : CISPR 22 CLASS-B 3m 3142B HORIZONTAL
EUT : Switching Adapter
Power : AC 100V/60Hz
M/N : GT-81083-0506-1.0-W2E
Test Engineer: Mark
Comment : Temp:25'C Humi:55%
Memo : Full load

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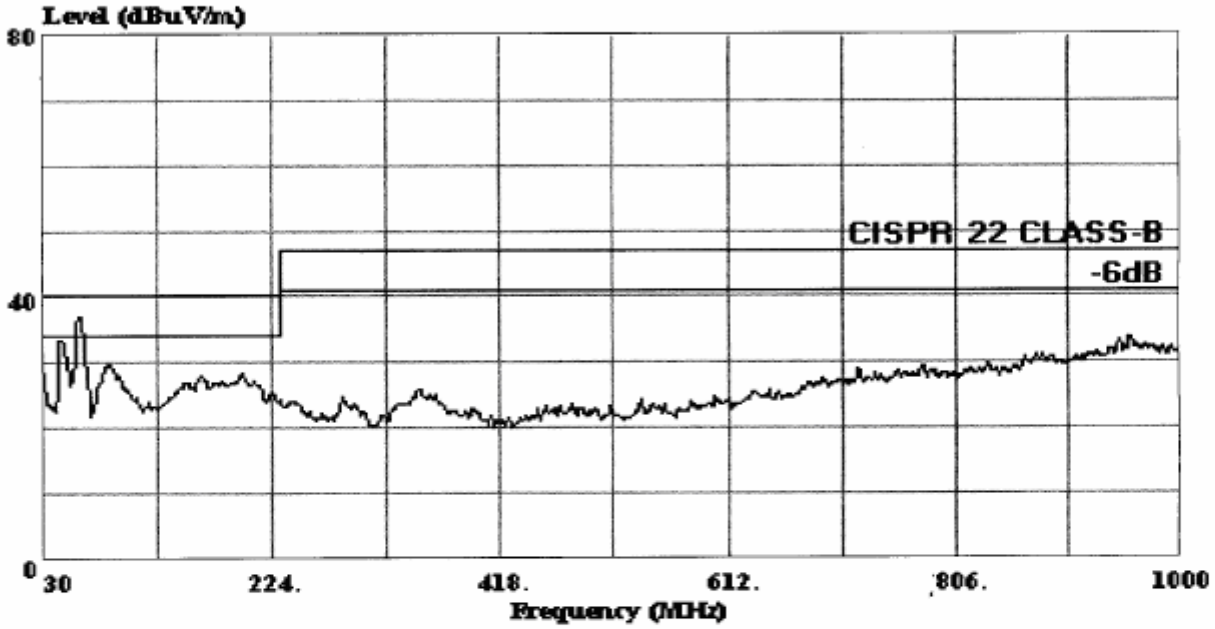
Data#: 125 File#: E:\Radiation\D\Dve.emi Date: 2008-08-13 Time: 20:25:53



Site : 966 CHAMBER ROOM
Condition : CISPR 22 CLASS-B 3m 3142B VERTICAL
EUT : Switching Adapter
Power : AC 100V/60Hz
M/N : GT-81083-0506-1.0-W2E
Test Engineer: Mark
Comment : Temp:25'C Humi:55%
Memo : Full load

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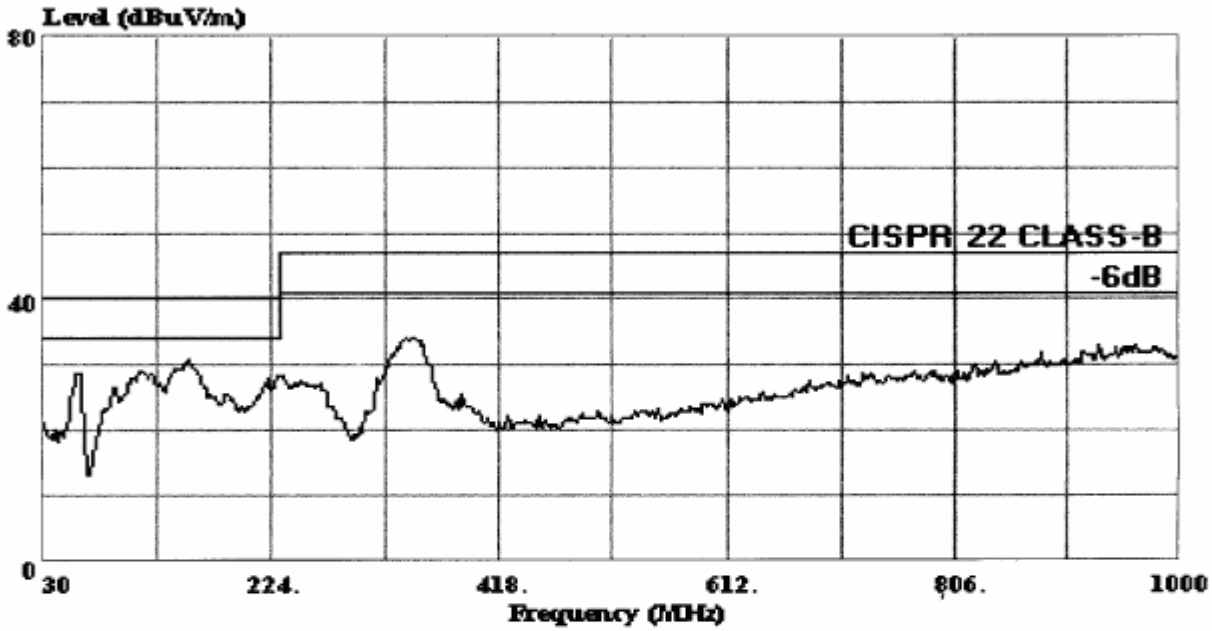
Data#: 123 File#: E:\Radiation\D\Dve.emi Date: 2008-08-13 Time: 20:22:22



Site : 966 CHAMBER ROOM
Condition : CISPR 22 CLASS-B 3m 3142B HORIZONTAL
EUT : Switching Adapter
Power : AC 100V/60Hz
M/N : GT-81083-0506-1.0-W2E
Test Engineer: Mark
Comment : Temp:25'C Humi:55%
Memo : Half load

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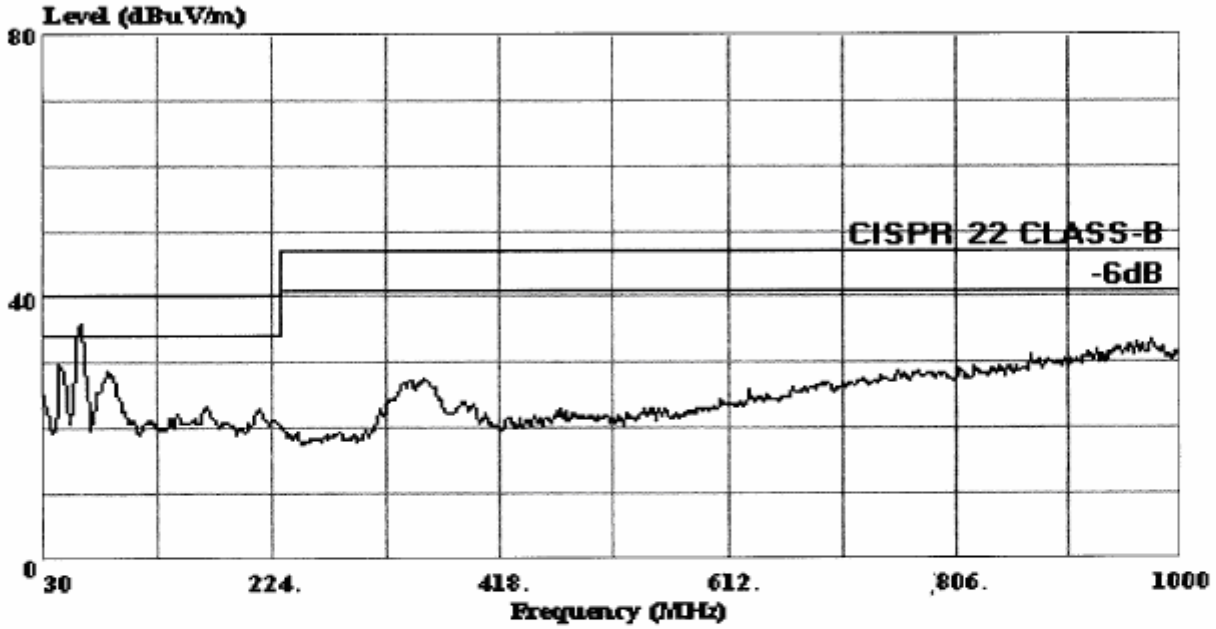
Data#: 122 File#: E:\Radiation\D\Dve.emi Date: 2008-08-13 Time: 20:21:46



Site : 966 CHAMBER ROOM
Condition : CISPR 22 CLASS-B 3m 3142B VERTICAL
EUT : Switching Adapter
Power : AC 100V/60Hz
M/N : GT-81083-0506-1.0-W2E
Test Engineer: Mark
Comment : Temp:25'C Humi:55%
Memo : Half load

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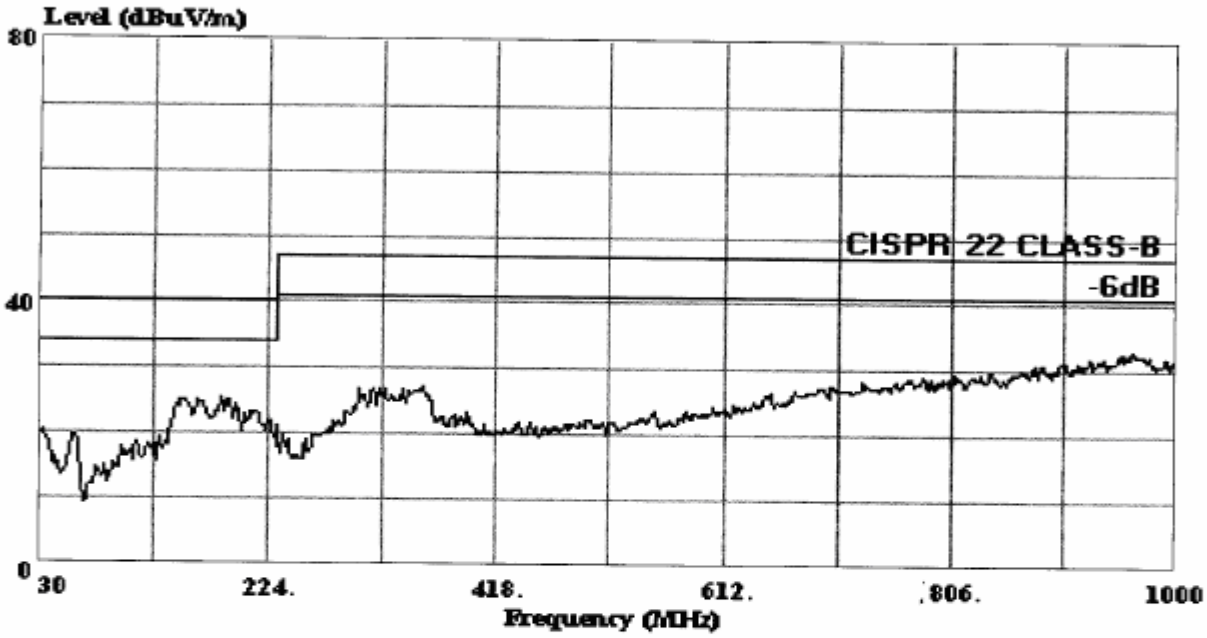
Data#: 120 File#: E:\Radiation\D\Dve.emi Date: 2008-08-13 Time: 20:19:10



Site : 966 CHAMBER ROOM
Condition : CISPR 22 CLASS-B 3m 3142B HORIZONTAL
EUT : Switching Adapter
Power : AC 100V/60Hz
M/N : GT-81083-0506-1.0-W2E
Test Engineer: Mark
Comment : Temp:25'C Humi:55%
Memo : No load

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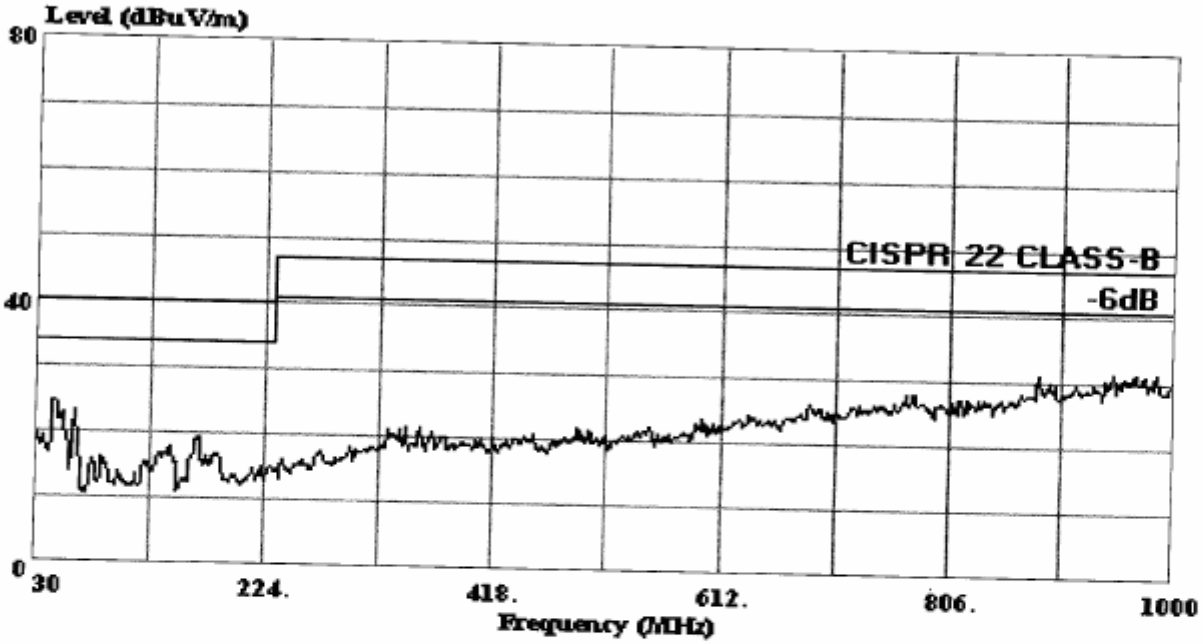
Data#: 121 File#: E:\Radiation\D\Dve.emi Date: 2008-08-13 Time: 20:20:03



Site : 966 CHAMBER ROOM
Condition : CISPR 22 CLASS-B 3m 3142B VERTICAL
EUT : Switching Adapter
Power : AC 100V/60Hz
M/N : GT-81083-0506-1.0-W2E
Test Engineer: Mark
Comment : Temp:25'C Humi:55%
Memo : No load

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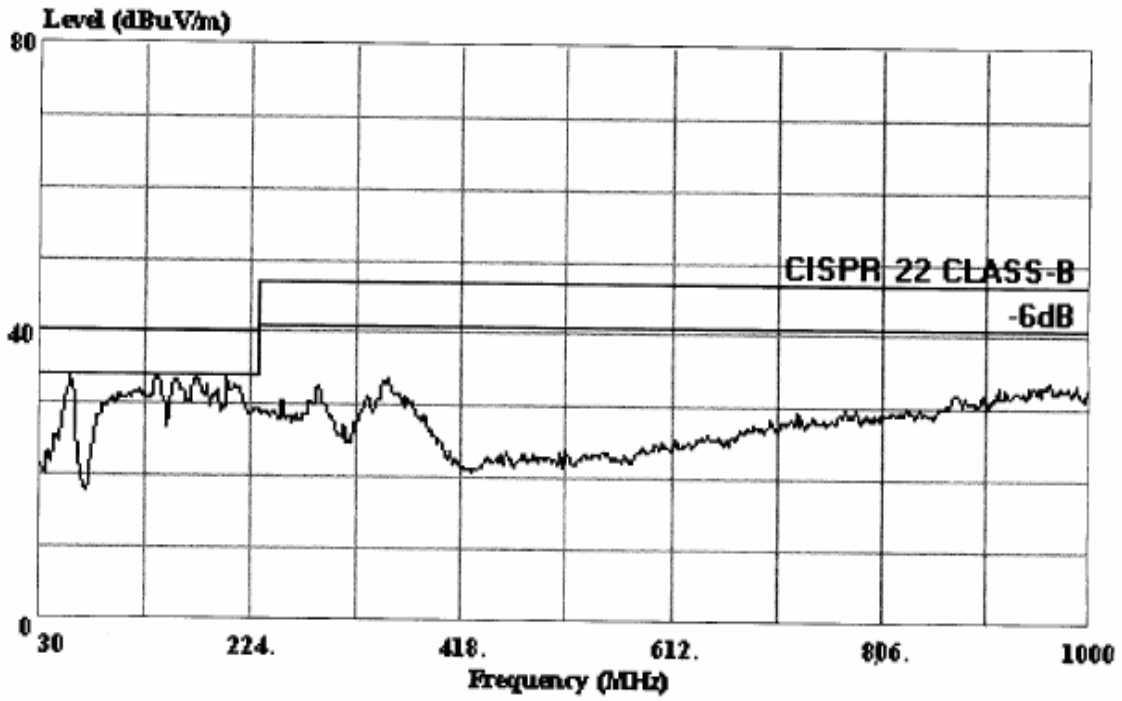
Data#: 130 File#: E:\Radiation\D\Dve.emi Date: 2008-08-13 Time: 20:37:04



Site : 966 CHAMBER ROOM
Condition : CISPR 22 CLASS-B 3m 3142B HORIZONTAL
EUT : Switching Adapter
Power : AC 230V/50Hz
M/N : GT-81083-0513-W2E
Test Engineer: Mark
Comment : Temp:25'C Humi:55%
Memo : Full load

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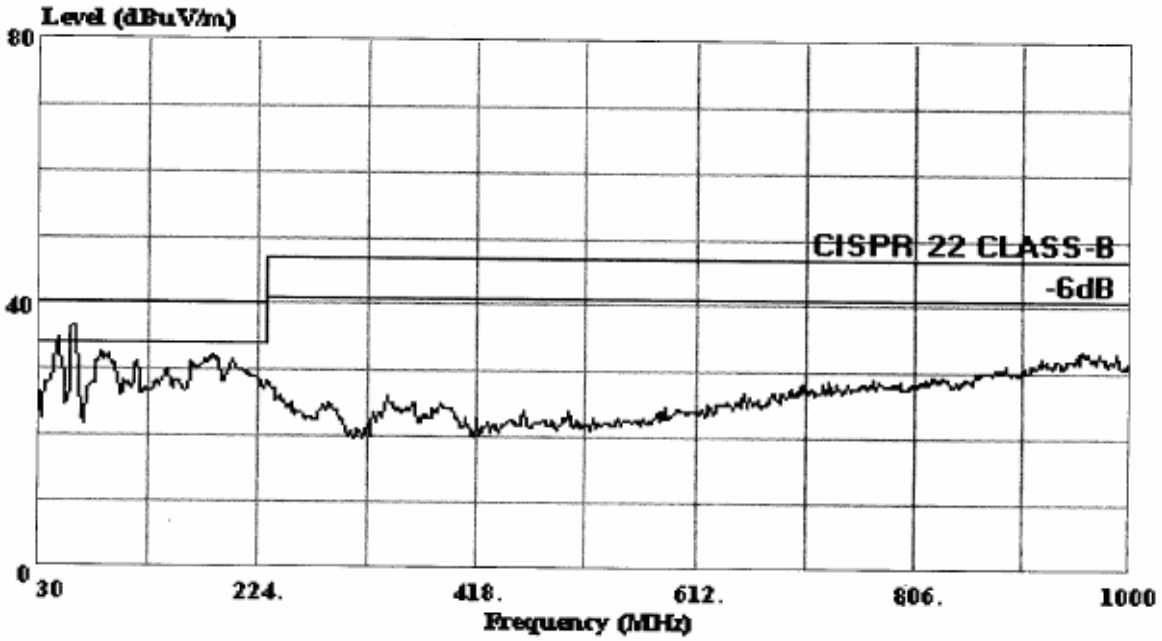
Data#: 131 File#: E:\Radiation\D\Dve.emi Date: 2008-08-13 Time: 20:40:21



Site : 966 CHAMBER ROOM
Condition : CISPR 22 CLASS-B 3m 3142B VERTICAL
EUT : Switching Adapter
Power : AC 230V/50Hz
M/N : GT-81083-0513-W2E
Test Engineer: Mark
Comment : Temp:25'C Humi:55%
Memo : Full load

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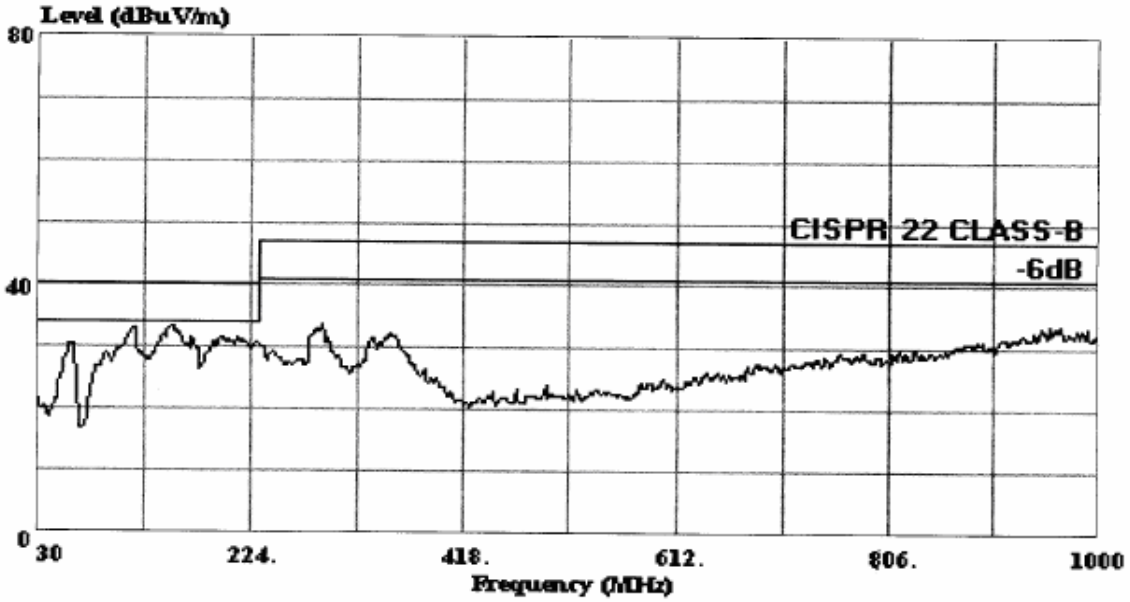
Data#: 128 File#: E:\Radiation\D\Dve.emi Date: 2008-08-13 Time: 20:30:02



Site : 966 CHAMBER ROOM
Condition : CISPR 22 CLASS-B 3m 3142B HORIZONTAL
EUT : Switching Adapter
Power : AC 100V/60Hz
M/N : GT-81083-0513-W2E
Test Engineer: Mark
Comment : Temp:25'C Humi:55%
Memo : Full load

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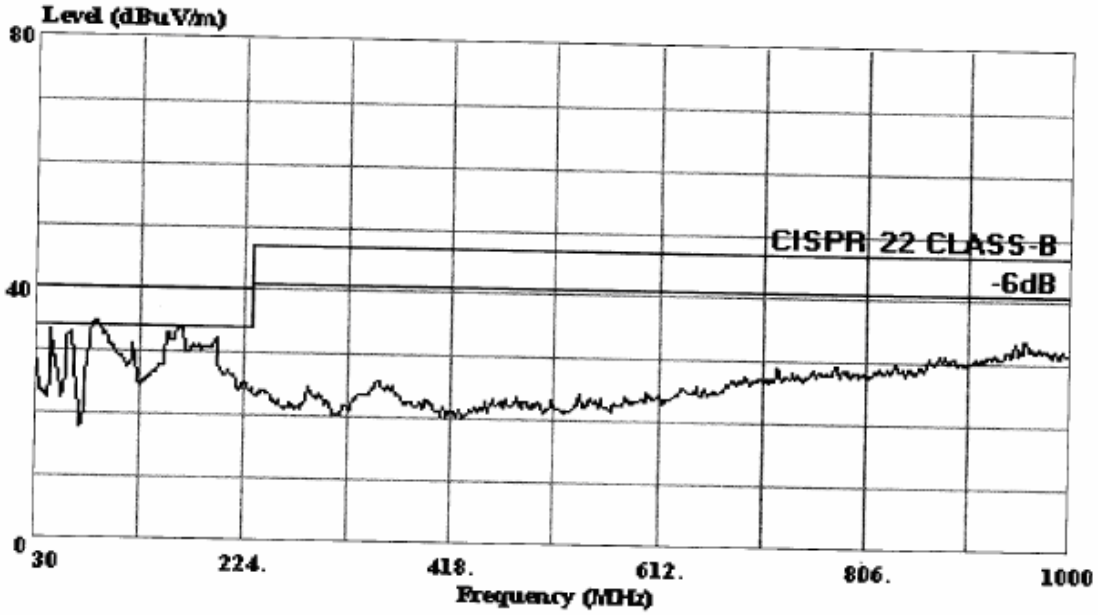
Data#: 129 File#: E:\Radiation\D\Dve.emi Date: 2008-08-13 Time: 20:33:58



Site : 966 CHAMBER ROOM
Condition : CISPR 22 CLASS-B 3m 3142B VERTICAL
EUT : Switching Adapter
Power : AC 100V/60Hz
M/N : GT-81083-0513-W2E
Test Engineer: Mark
Comment : Temp:25'C Humi:55%
Memo : Full load