

FCC PART 15 EMI TEST REPORT

of

E.U.T. : COMBO
MODEL : OD-100
FCC ID. : NYYOD-100

for

APPLICANT : MOVITA TECHNOLOGIES INC.

**ADDRESS : No. 26, Wu-Chuan 7th Rd., Wu-Ku Industrial Park,
Taipei County, Taiwan, R.O.C.**

Test Performed by

**ELECTRONICS TESTING CENTER, TAIWAN
NO. 34, LIN 5, DING FU TSUN, LINKOU HSIANG
TAIPEI HSIEN, TAIWAN, R.O.C.**

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Report Number : ET91R-11-094-01

TEST REPORT VERIFICATION

Applicant : MOVITA TECHNOLOGIES INC.
No. 26, Wu-Chuan 7th Rd., Wu-Ku Industrial Park, Taipei County,
Taiwan, R.O.C.

Manufacturer : MOVITA TECHNOLOGIES INC.
No. 26, Wu-Chuan 7th Rd., Wu-Ku Industrial Park, Taipei County,
Taiwan, R.O.C.

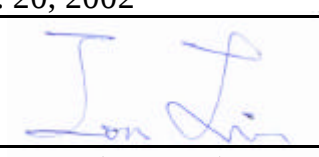
Description of EUT :
a) Type of EUT : COMBO
b) Trade Name : MOVITA ; MUSTEK
c) Model No. : OD-100
d) Type No. : ODB-100 ; ODC-100 ; ODV-100 ; ODR-100
e) Power Supply : Input:100-200VAC,50/60Hz,0.5A
Output:5VDC,2.0A

Regulation Applied : FCC Rules and Regulations Part 15 Subpart B (2002)

I HEREBY CERTIFY THAT: The data shown in this report were made in accordance with the procedures given in ANSI C63.4, and the energy emitted by the device was founded to be within the limits applicable. I assume full responsibility for accuracy and completeness of these data.

Note: 1. The result of the testing report relate only to the item tested.
2. The testing report shall not be reproduced expect in full, without the written approval of ETC.

Issued Date: Dec. 20, 2002

Test Engineer: 
(Ion Lin)

Approve & Authorized Signer:

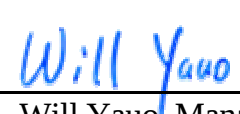

Will Yauo, Manager
EMC Dept. II of ELECTRONICS
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1 GENERAL INFORMATION

1.1 Product Description

- a) Type of EUT : COMBO
- b) Trade Name : MOVITA ; MUSTEK
- c) Model No. : OD-100
- d) Type No. : ODB-100 ; ODC-100 ; ODV-100 ; ODR-100
- e) Power Supply : Input:100-200VAC,50/60Hz,0.5A
Output:5VDC,2.0A

1.2 Characteristics of Device

- 1. USB2.0/1.1 interface
- 2. Access Time : 72ms (1/3 stroke)
- 3. Optical Device : ODC-100 (CD-Rom)
ODR-100 (CD-RW)
ODV-100 (DVD-Rom)
ODB-100 (Combo)
- 4. Write Methods (ODB-100 ; ODR-100) : Track at once ; Disk at once ;
Multi-session ; Incremental
- 5. Write Verification (ODB-100 ; ODR-100) : Running Optimun Power Control to
Dynamically adjust laser write power

1.3 Test Methodology

For OD-100, both conducted, radiated, conducted RF output signal and spurious level and transfer switch isolation testing were performed according to the procedures in section 12.2 of ANSI C63.4 (1992).

1.4 Test Facility

The open area test site and conducted measurement facility used to collect the radiated data is located on the roof top of Building at No.34, Lin 5, Ding Fu Tsun, Linkou Hsiang, Taipei Hsien, Taiwan, R.O.C.

This site has been fully described in a report submitted to your office, and accepted in a letter dated Feb. 10, 2000.

2 LIMITATIONS AND LABELING REQUIREMENT

2.1 Definition

Unintentional radiator:

A device that intentionally generates and radio frequency energy for use within the device, or that sends radio frequency signals by conduction to associated equipment via connecting wiring, but which is not intended to emit RF energy by radiation or induction.

Class A Digital Device:

A digital device which is marketed for use in commercial or business environment; exclusive of a device which is market for use by the general public, or which is intended to be used in the home.

Class B Digital Device :

A digital device which is marketed for use in a residential environment notwithstanding use in a commercial, business of industrial environment. Example of such devices that are marketed for the general public.

Note : A manufacturer may also qualify a device intended to be marketed in a commercial, business, or industrial environment as a Class B digital device, and in fact is encouraged to do so, provided the device complies with the technical specifications for a Class B Digital Device. In the event that a particular type of device has been found to repeatedly cause harmful interference to radio communications, the Commission may classify such a digital device as a Class B Digital Device, Regardless of its intended use.

2.2 Limitation

(1) Conducted Emission Limits :

Class B Line Conducted Emission Limits :

Frequency Range	Quasi-peak level	Average level
150 kHz - 500 kHz	66-56 dB	56-46 dB
500kHz - 5 MHz	56 dB	46 dB
5 MHz - 30 MHz.	60 dB	50 dB

(2) Radiated Emission Limits:

According to 15.109, Except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Class B Radiated Emission Limits:

Frequency MHz	Distance Meters	Radiated dB μ V/m	Radiated μ V/m
30 - 88	3	40.0	100
88 - 216	3	43.5	150
216 - 960	3	46.0	200
Above 960	3	54.0	500

2.3 Labeling Requirement

The device shall bear the following statement in a conspicuous location on the device:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

2.4 User Information

The users manual or instruction manual for an intentional or unintentional radiator shall caution the user that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

For a Class B digital device or peripheral, the instructions furnished the user shall include the following or similar statement, placed in a prominent location in the text of the manual.

The Federal Communications Commission Radio Frequency Interference Statement includes the following paragraph.

This equipment has been tested and found to comply with the limits for a Class B Digital Device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction may cause harmful interference to radio communication. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio / TV technician for help.

3 SYSTEM TEST CONFIGURATION

3.1 Justification

The system was configured for testing in a typical fashion, as a customer would normally use it.

For radiated emission measuring, the EUT was rotated to obtain the maximum level of radiated emissions. The antenna was varied in height from 1 to 4 meters above ground to obtain the maximum signal strength. Measurement was performed under the condition that a computer program was exercised to simulate data communication of EUT. Three highest emissions were verified with varying placement of the connected cable to maximize the emission from EUT.

3.2 Device for Tested System

Device	Manufacture	Model	Description
COMBO*	OD-100	MOVITA TECHNOLOGIES INC.	1.8m Unshielded Adaptor Power Cord
Modem	1200AT	Smar TEAM Co.	1.8m Shielded Cable
Mouse	M-S34	HP	1.5m Unshielded Cable
Printer	PHOTO 700	EPSON	1.2m Shielded Cable
Notebook	Think Pad	IBM	1.8m Unshielded AC Power Cord
Earphone	----	----	1.5m Unshielded Cable

Remark “*” means equipment under test.

4 RADIATED EMISSION MEASUREMENT

4.1 Description for Radiated Emission Measured

According to § 15.33 (b)(3), except for a CB receiver, a receiver employing super-heterodyne techniques shall be investigated from 30 MHz up to at least the second harmonic of the highest local oscillator frequency generated in the device.

The field strength measurements of the receiver under test which was placed on a wooden turntable 0.8 meter in height. The receiving antenna polarized horizontally was varied from 1 to 4 meters and the wooden turntable was rotated through 360 degrees to obtain the highest reading on the field strength meter or on the display of the spectrum analyzer. And also, each emission was to be maximized by changing the orientation of the equipment under test. These measurements were repeated with the receiving antenna polarized vertically.

The following data lists the significant emission frequencies, measured levels, correction factor (includes cable and antenna corrections), the corrected reading, the limit, and margin. Explanation of the Correction Factor is given in paragraph 4.3.

4.2 Radiated Emission Data

A. Type No. : ODB-100

1.Operation Mode : Read

Test Date : Dec. 11, 2002 Temperature : 25 Humidity : 60 %

Emission Frequency (MHz)	Meter Reading (dB μ V)		Corr'd Factor (dB)	Results (dB μ V/m)		AH (m)		DRT degree		Limit @10m (dB μ V/m)	Margin (dB)
	Hor.	Ver.		Hor.	Ver.	Hor.	Ver.	Hor.	Ver.		
178.500	31.9	39.5	-13.3	18.6	26.2	1.5	1.0	15	37	30.0	-3.8
195.510	36.9	39.9	-13.1	23.8	26.8	3.0	2.5	62	52	30.0	-3.2
263.550	42.2	39.8	-9.6	32.6	30.2	2.0	1.0	44	90	37.0	-4.4
719.300	34.6	30.5	-1.1	33.5	29.4	1.0	1.0	32	180	37.0	-3.5
794.900	27.4	32.4	0.0	27.4	32.4	1.0	3.0	62	70	37.0	-4.6
839.700	29.8	28.6	1.6	31.4	30.2	0	4.0	55	60	37.0	-5.6

Note :

1. Remark “---“ means that the emissions from EUT are too weak to be measured.
2. AH means antenna height, DRT means degrees of rotation of turntable.
3. The expanded uncertainty of the radiated emission tests is 3.53 dB.

2.Operation Mode : WriteTest Date : Dec. 11, 2002 Temperature : 25 Humidity: 60 %

Emission Frequency (MHz)	Meter Reading (dB μ V)		Corr'd Factor (dB)	Results (dB μ V/m)		AH (m)		DRT degree		Limit @10m (dB μ V/m)	Margin (dB)
	Hor.	Ver.		Hor.	Ver.	Hor.	Ver.	Hor.	Ver.		
147.180	30.9	30.5	-11.7	19.2	18.8	1.0	1.7	20	132	30.0	-10.8
180.390	36.2	34.2	-13.4	22.8	20.8	1.8	1.0	150	40	30.0	-7.2
240.600	36.4	34.2	-11.0	25.4	23.2	1.0	4.0	45	62	37.0	-11.6
664.000	30.5	30.5	-2.9	27.6	27.6	3.4	3.5	143	66	37.0	-9.4
719.300	29.7	29.7	-1.1	28.6	28.6	1.0	1.0	75	94	37.0	-8.4
839.000	31.8	31.8	1.6	33.4	33.4	2.5	1.0	162	143	37.0	-3.6

Note :

1. Remark “---“ means that the emissions from EUT are too weak to be measured.
2. AH means antenna height, DRT means degrees of rotation of turntable.
3. The expanded uncertainty of the radiated emission tests is 3.53 dB.

3.Operation Mode : RewriteTest Date : Dec. 11, 2002 Temperature : 25 Humidity: 60 %

Emission Frequency (MHz)	Meter Reading (dB μ V)		Corr'd Factor (dB)	Results (dB μ V/m)		AH (m)		DRT degree		Limit @10m (dB μ V/m)	Margin (dB)
	Hor.	Ver.		Hor.	Ver.	Hor.	Ver.	Hor.	Ver.		
120.180	30.3	37.7	-10.7	19.6	27.0	4.0	2.5	17	72	30.0	-3.0
180.390	36.2	34.0	-13.4	22.8	20.6	2.0	3.2	62	23	30.0	-7.2
240.600	33.6	34.4	-11.0	22.6	23.4	2.0	2.0	45	53	37.0	-13.6
718.600	34.5	28.9	-1.1	33.4	27.8	3.5	1.0	124	311	37.0	-3.6
839.000	29.6	26.2	1.6	31.2	27.8	2.5	2.0	145	234	37.0	-5.8
958.000	30.2	27.0	3.2	33.4	30.2	1.0	1.0	321	334	37.0	-3.6

Note :

1. Remark “---“ means that the emissions from EUT are too weak to be measured.
2. AH means antenna height, DRT means degrees of rotation of turntable.
3. The expanded uncertainty of the radiated emission tests is 3.53 dB.

4.Operation Mode : PlayTest Date : Dec. 11, 2002 Temperature : 25 Humidity: 60 %

Emission Frequency (MHz)	Meter Reading (dB μ V)		Corr'd Factor (dB)	Results (dB μ V/m)		AH (m)		DRT degree		Limit @10m (dB μ V/m)	Margin (dB)
	Hor.	Ver.		Hor.	Ver.	Hor.	Ver.	Hor.	Ver.		
144.480	37.3	34.8	-11.7	25.6	23.1	3.2	4.0	170	240	30.0	-4.4
160.610	38.0	38.0	-12.0	26.0	26.0	1.0	2.8	17	24	30.0	-4.0
178.500	39.7	36.5	-13.3	26.4	23.2	1.0	3.2	8.0	15	30.0	-3.6
563.200	36.6	28.1	-3.6	33.0	24.5	2.5	2.0	24	25	37.0	-4.0
720.700	34.6	30.4	-1.0	33.6	29.4	2.5	2.0	70	90	37.0	-3.4
839.000	29.0	28.4	1.6	30.6	30.0	1.7	1.4	88	105	37.0	-6.4

Note :

1. Remark “---“ means that the emissions from EUT are too weak to be measured.
2. AH means antenna height, DRT means degrees of rotation of turntable.
3. The expanded uncertainty of the radiated emission tests is 3.53 dB.

B. Type No. : ODC-100

1.Operation Mode : ReadTest Date : Dec. 11, 2002 Temperature : 25 Humidity : 60 %

Emission Frequency (MHz)	Meter Reading (dB μ V)		Corr'd Factor (dB)	Results (dB μ V/m)		AH (m)		DRT degree		Limit @10m (dB μ V/m)	Margin (dB)
	Hor.	Ver.		Hor.	Ver.	Hor.	Ver.	Hor.	Ver.		
178.500	38.3	40.1	-13.3	25.0	26.8	0.7	1.0	130	20	30.0	-3.2
199.560	38.8	39.0	-12.8	26.0	26.2	1.0	2.8	40	150	30.0	-3.8
204.960	39.0	39.8	-12.8	26.2	27.0	4.0	1.0	60	45	30.0	-3.0
718.600	33.5	31.3	-1.1	32.4	30.2	3.5	1.4	66	143	37.0	-4.6
799.800	26.0	29.4	0.2	26.2	29.6	1.0	1.0	94	75	37.0	-7.4
837.600	30.0	28.6	1.6	31.6	30.2	1.0	2.5	143	162	37.0	-5.4

Note :

1. Remark “---“ means that the emissions from EUT are too weak to be measured.
2. AH means antenna height, DRT means degrees of rotation of turntable.
3. The expanded uncertainty of the radiated emission tests is 3.53 dB.

2.Operation Mode : PlayTest Date : Dec. 11, 2002 Temperature : 25 Humidity: 60 %

Emission Frequency (MHz)	Meter Reading (dB μ V)		Corr'd Factor (dB)	Results (dB μ V/m)		AH (m)		DRT degree		Limit @10m (dB μ V/m)	Margin (dB)
	Hor.	Ver.		Hor.	Ver.	Hor.	Ver.	Hor.	Ver.		
120.700	36.1	37.6	-10.8	25.3	26.8	1.0	3.0	170	222	30.0	-3.2
161.760	34.1	39.1	-12.1	22.0	27.0	2.5	1.0	150	160	30.0	-3.0
196.590	36.8	39.2	-13.0	23.8	26.2	1.0	2.5	143	320	30.0	-3.8
664.700	30.1	32.9	-2.9	27.2	30.0	1.0	1.7	121	180	37.0	-7.0
719.300	31.9	28.3	-1.1	30.8	27.2	3.0	3.4	70	80	37.0	-6.2
799.800	27.0	29.4	0.2	27.2	29.6	4.0	2.8	63	65	37.0	-7.4

Note :

1. Remark “---“ means that the emissions from EUT are too weak to be measured.
2. AH means antenna height, DRT means degrees of rotation of turntable.
3. The expanded uncertainty of the radiated emission tests is 3.53 dB.

C. Type No. : ODV-100

1.Operation Mode : ReadTest Date : Dec. 11, 2002 Temperature : 25 Humidity : 60 %

Emission Frequency (MHz)	Meter Reading (dB μ V)		Corr'd Factor (dB)	Results (dB μ V/m)		AH (m)		DRT degree		Limit @10m (dB μ V/m)	Margin (dB)
	Hor.	Ver.		Hor.	Ver.	Hor.	Ver.	Hor.	Ver.		
200.370	39.2	34.4	-12.8	26.4	21.6	2.0	1.0	25	360	30.0	-3.6
261.390	40.6	38.8	-9.4	31.2	29.4	2.5	4.0	36	302	37.0	-5.8
266.790	43.4	38.4	-9.8	33.6	28.6	3.0	1.0	28	156	37.0	-3.4
480.600	32.8	34.2	-4.0	28.8	30.2	1.7	1.0	5.0	203	37.0	-6.8
696.900	30.5	29.7	-2.1	28.4	27.6	3.2	2.5	42	168	37.0	-8.6
720.000	31.2	31.4	-1.0	30.2	30.4	2.4	2.8	32	170	37.0	-6.6

Note :

1. Remark “---“ means that the emissions from EUT are too weak to be measured.
2. AH means antenna height, DRT means degrees of rotation of turntable.
3. The expanded uncertainty of the radiated emission tests is 3.53 dB.

2.Operation Mode : PlayTest Date : Dec. 11, 2002 Temperature : 25 Humidity: 60 %

Emission Frequency (MHz)	Meter Reading (dB μ V)		Corr'd Factor (dB)	Results (dB μ V/m)		AH (m)		DRT degree		Limit @10m (dB μ V/m)	Margin (dB)
	Hor.	Ver.		Hor.	Ver.	Hor.	Ver.	Hor.	Ver.		
120.720	36.4	37.2	-10.8	25.6	26.4	1.0	3.2	99	3.0	30.0	-3.6
133.950	32.9	35.9	-11.7	21.2	24.2	2.0	1.0	155	25	30.0	-5.8
180.120	35.8	36.0	-13.4	22.4	22.6	1.0	2.5	133	4.0	30.0	-7.4
518.400	26.6	36.6	-4.6	22.0	32.0	3.2	4.0	156	180	37.0	-5.0
664.000	29.1	34.9	-2.9	26.2	32.0	2.5	1.7	172	5.0	37.0	-5.0
801.900	26.7	30.1	0.3	27.0	30.4	2.8	3.2	90	32	37.0	-6.6

Note :

1. Remark “---“ means that the emissions from EUT are too weak to be measured.
2. AH means antenna height, DRT means degrees of rotation of turntable.
3. The expanded uncertainty of the radiated emission tests is 3.53 dB.

D. Type No. : ODR-100

1.Operation Mode : ReadTest Date : Dec. 11, 2002 Temperature : 25 Humidity : 60 %

Emission Frequency (MHz)	Meter Reading (dB μ V)		Corr'd Factor (dB)	Results (dB μ V/m)		AH (m)		DRT degree		Limit @10m (dB μ V/m)	Margin (dB)
	Hor.	Ver.		Hor.	Ver.	Hor.	Ver.	Hor.	Ver.		
135.570	38.1	38.1	-11.7	26.4	26.4	1.0	3.0	207	42	30.0	-3.6
152.580	38.8	40.4	-11.8	27.0	28.6	1.0	1.8	114	66	30.0	-3.0
169.590	38.8	38.8	-12.6	26.2	26.2	2.0	2.0	132	35	30.0	-3.8
659.800	33.2	30.0	-3.0	30.2	27.0	3.0	4.0	151	28	37.0	-6.8
719.300	34.3	28.5	-1.1	33.2	27.4	4.0	1.5	138	17	37.0	-3.8
799.800	27.2	28.8	0.2	27.4	29.0	1.2	5.0	142	7.0	37.0	-8.0

Note :

1. Remark “---“ means that the emissions from EUT are too weak to be measured.
2. AH means antenna height, DRT means degrees of rotation of turntable.
3. The expanded uncertainty of the radiated emission tests is 3.53 dB.

2.Operation Mode : WriteTest Date : Dec. 11, 2002 Temperature : 25 Humidity: 60 %

Emission Frequency (MHz)	Meter Reading (dB μ V)		Corr'd Factor (dB)	Results (dB μ V/m)		AH (m)		DRT degree		Limit @10m (dB μ V/m)	Margin (dB)
	Hor.	Ver.		Hor.	Ver.	Hor.	Ver.	Hor.	Ver.		
120.720	33.0	34.8	-10.8	22.2	24.0	4.0	4.0	66	71	30.0	-6.0
200.100	38.8	33.0	-12.8	26.0	20.2	1.0	1.0	54	48	30.0	-4.0
234.100	41.9	39.3	-11.7	30.2	27.6	3.0	3.0	280	369	37.0	-6.8
659.800	32.4	28.2	-3.0	29.4	25.2	2.0	2.5	142	17	37.0	-7.6
718.600	33.1	25.9	-1.1	32.0	24.8	1.0	1.5	193	24	37.0	-5.0
839.000	26.2	23.7	1.6	27.8	25.3	3.5	3.0	152	93	37.0	-9.2

Note :

1. Remark “---“ means that the emissions from EUT are too weak to be measured.
2. AH means antenna height, DRT means degrees of rotation of turntable.
3. The expanded uncertainty of the radiated emission tests is 3.53 dB.

3.Operation Mode : RewriteTest Date : Dec. 11, 2002 Temperature : 25 Humidity: 60 %

Emission Frequency (MHz)	Meter Reading (dB μ V)		Corr'd Factor (dB)	Results (dB μ V/m)		AH (m)		DRT degree		Limit @10m (dB μ V/m)	Margin (dB)
	Hor.	Ver.		Hor.	Ver.	Hor.	Ver.	Hor.	Ver.		
132.870	35.5	35.5	-11.7	23.8	23.8	2.5	3.0	150	167	30.0	-6.2
200.100	39.4	36.0	-12.8	26.6	23.2	4.0	2.4	132	153	30.0	-3.4
261.120	41.0	40.2	-9.4	31.6	30.8	3.0	1.7	4.0	24	37.0	-5.4
599.600	26.2	31.6	-3.4	22.8	28.2	1.8	2.8	3.0	44	37.0	-8.8
699.000	25.8	30.0	-2.0	23.8	28.0	2.0	3.0	25	66	37.0	-9.0
799.800	26.4	29.2	0.2	26.6	29.4	1.5	2.0	32	58	37.0	-7.6

Note :

1. Remark “---“ means that the emissions from EUT are too weak to be measured.
2. AH means antenna height, DRT means degrees of rotation of turntable.
3. The expanded uncertainty of the radiated emission tests is 3.53 dB.

4.Operation Mode : PlayTest Date : Dec. 11, 2002 Temperature : 25 Humidity: 60 %

Emission Frequency (MHz)	Meter Reading (dB μ V)		Corr'd Factor (dB)	Results (dB μ V/m)		AH (m)		DRT degree		Limit @10m (dB μ V/m)	Margin (dB)
	Hor.	Ver.		Hor.	Ver.	Hor.	Ver.	Hor.	Ver.		
135.570	36.1	37.9	-11.7	24.4	26.2	2.5	2.5	170	320	30.0	-3.8
152.580	33.0	38.0	-11.8	21.2	26.2	4.0	4.0	50	32	30.0	-3.8
169.300	32.9	39.0	-12.6	20.3	26.4	1.7	4.0	66	59	30.0	-3.6
659.800	33.4	28.8	-3.0	30.4	25.8	3.2	3.0	32	5.0	37.0	-6.6
718.600	35.1	28.1	-1.1	34.0	27.0	2.4	2.0	55	28	37.0	-3.0
839.000	27.6	24.7	1.6	29.2	26.3	1.2	1.0	4.0	36	37.0	-7.8

Note :

1. Remark “---“ means that the emissions from EUT are too weak to be measured.
2. AH means antenna height, DRT means degrees of rotation of turntable.
3. The expanded uncertainty of the radiated emission tests is 3.53 dB.

4.2 Field Strength Calculation

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

$$\textbf{RESULT} = \textbf{READING} + \textbf{CORR. FACTOR}$$

where CORR. FACTOR = Antenna FACTOR + Cable FACTOR

4.3 Equipment for Radiation Measurement

The following test equipment are used during the radiated test .

Equipment	Manufacturer	Model No.	Next Cal. Date
Spectrum Analyzer	Hewlett-Packard	8568B	01/10/2003
Quasi Peak Adapter	Hewlett-Packard	85650A	01/10/2003
Pre-selector	Hewlett-Packard	85685A	01/10/2003
Pre-Amplifier	Hewlett-Packard	8447D	10/14/2003
Log Periodic Antenna	EMCO	3146	11/02/2003
Horn Antenna	EMCO	3115	05/10/2003
Preamplifier	Hewlett-Packard	8449B	05/10/2003
RF Test Receiver	Rohde & Schwarz	ESVS 30	08/06/2003
Biconical Antenna	EMCO	3110B	11/01/2003
Spectrum Analyzer	Hewlett-Packard	8564E	04/22/2003

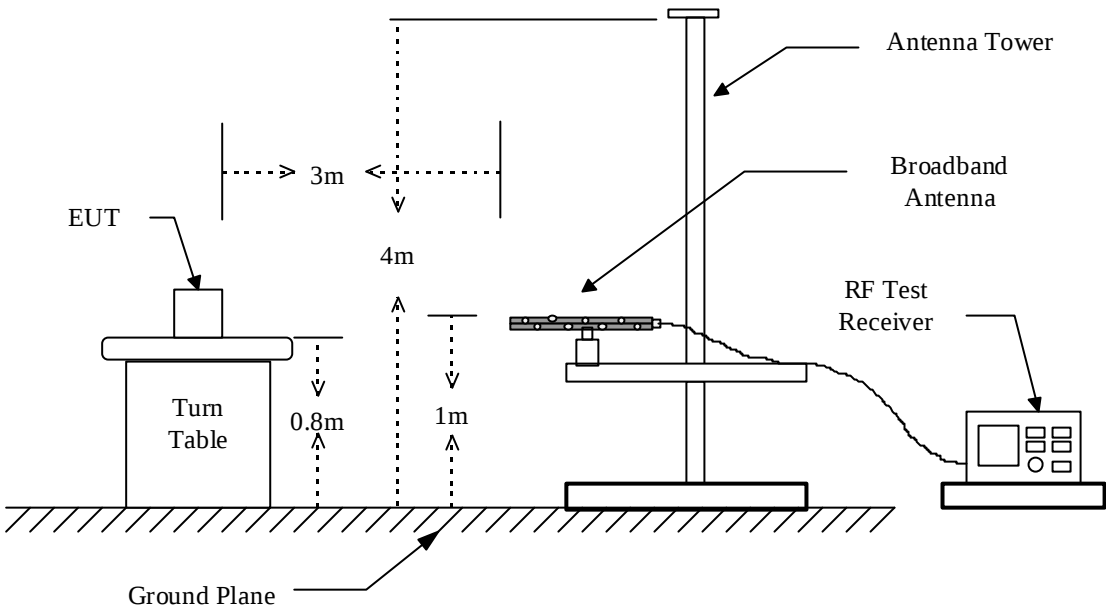
4.4 Measuring Instrument Setup

Explanation of measuring instrument setup when respective function is used in any frequency band is as following :

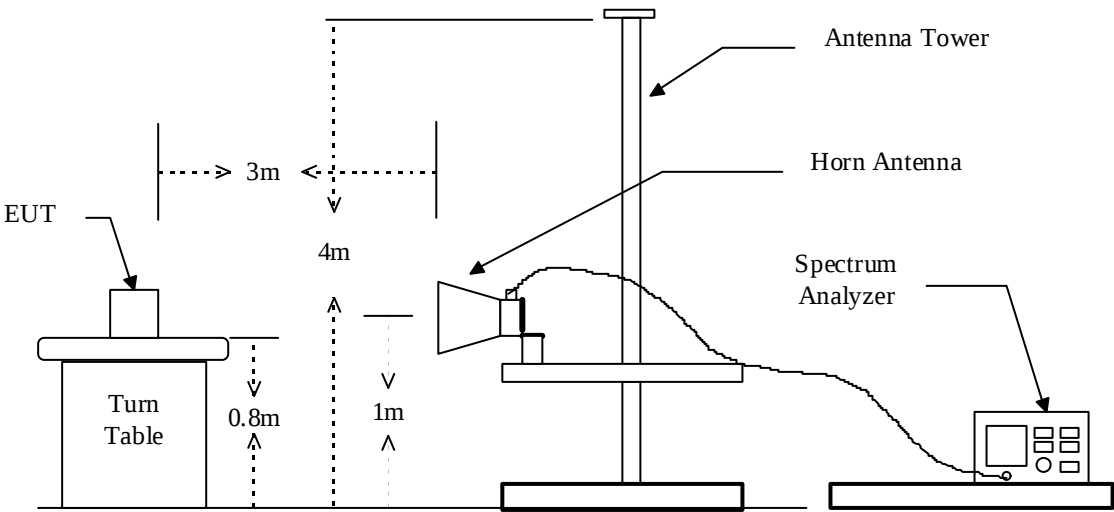
Frequency Band (MHz)	Instrument	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	RF Test Receiver	Quasi Peak	120 kHz	N/A
	Spectrum Analyzer	Peak	100 kHz	100 kHz
Above 1000	Spectrum Analyzer	Peak	1 MHz	1 MHz
	Spectrum Analyzer	Average	1 MHz	300Hz

4.6 Open Field Test Site Setup Diagram

Radiated Emission's Frequency Below 1 GHz



Radiated Emission's Frequency Above 1 GHz



5 CONDUCTED EMISSION MEASUREMENT

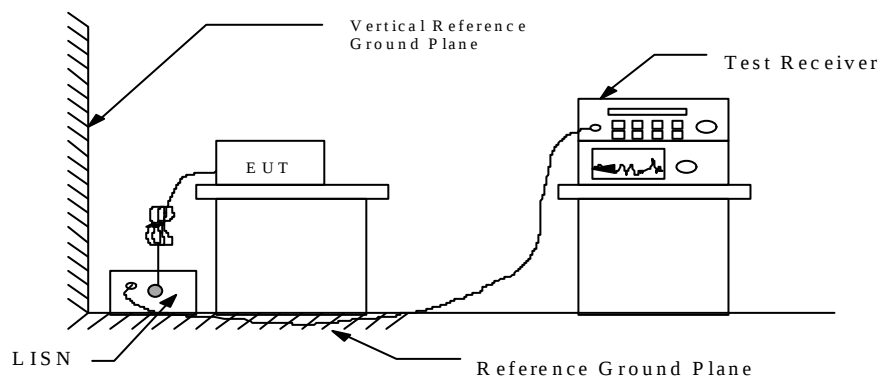
5.1 Standard Applicable

For intentional device, Line Conducted Emission Limits are in accordance to § 15.207(a), any emissions level shall not exceed 48 dBuV.

5.2 Measurement Procedure

1. Setup the configuration per figure 3.
2. A preliminary scan with a spectrum monitor is performed to identify the frequency of emission that has the highest amplitude relative to the limit by operating the EUT in selected modes of operation, typical cable positions, and with a typical system configuration.
3. Record the 6 or 8 highest emissions relative to the limit.
4. Measure each frequency obtained from step 3 by a test receiver set on quasi peak detector function, and then record the accuracy frequency and emission level. If all emissions measured in the specified band are attenuated more than 20 dB from the limit, this step would be ignored, and the peak detector function would be used.
5. Confirm the highest three emissions with variation of the EUT cable configuration and record the final data.
6. Repeat all above procedures on measuring each operation mode of EUT.

Figure 3 : Conducted emissions measurement configuration



5.3 Conducted Emission Data

A. Type No. : ODB-100

1.Operation Mode : Read

Test Date : Dec. 11, 2002

Temperature : 25

Humidity: 60 %

Freq. (MHz)	Meter Reading (dB μ V)				Factor (dB)	Limit (dB μ V)		Result (dB μ V)			
	Q.P Value		AVG. Value			Q.P Value	AVG. Value	Q.P Value		AVG. Value	
	N	L1	N	L1				N	L1	N	L1
0.200	46.8	46.1	----	----	0.2	63.6	53.6	47.0	46.3	----	----
0.259	41.1	40.3	----	----	0.2	61.5	51.5	41.3	40.5	----	----
0.321	33.2	33.4	----	----	0.3	59.7	49.7	33.5	33.7	----	----
0.458	41.8	40.2	----	----	0.3	56.7	46.7	42.1	40.5	----	----
0.523	34.1	34.2	----	----	0.3	56.0	46.0	34.4	34.5	----	----
0.726	38.5	37.9	----	----	0.3	56.0	46.0	38.8	38.2	----	----

2.Operation Mode : Write

Test Date : Dec. 11, 2002

Temperature : 25

Humidity: 60 %

Freq. (MHz)	Meter Reading (dB μ V)				Factor (dB)	Limit (dB μ V)		Result (dB μ V)			
	Q.P Value		AVG. Value			Q.P Value	AVG. Value	Q.P Value		AVG. Value	
	N	L1	N	L1				N	L1	N	L1
0.192	47.6	47.0	----	----	0.2	63.9	53.9	47.8	47.2	----	----
0.267	33.5	40.7	----	----	0.2	61.2	51.2	33.7	40.9	----	----
0.329	38.2	39.1	----	----	0.3	59.5	49.5	38.5	39.4	----	----
0.454	39.2	38.7	----	----	0.3	56.8	46.8	39.5	39.0	----	----
3.179	10.7	11.6	----	----	0.6	56.0	46.0	11.3	12.2	----	----
6.648	11.4	11.4	----	----	0.7	60.0	50.0	12.1	12.1	----	----

Note : 1. Please see appendix 1 for Plotted Data

2. The expanded uncertainty of the conducted emission tests is 2.45 dB.

3.Operation Mode : RewriteTest Date : Dec. 11, 2002Temperature : 25Humidity: 60 %

Freq. (MHz)	Meter Reading (dB μ V)				Factor (dB)	Limit (dB μ V)		Result (dB μ V)			
	Q.P Value		AVG. Value			Q.P Value	AVG. Value	Q.P Value		AVG. Value	
	N	L1	N	L1				N	L1	N	L1
0.196	49.7	48.4	----	----	0.2	63.8	53.8	49.9	48.6	----	----
0.259	42.2	41.0	----	----	0.2	61.5	51.5	42.4	41.2	----	----
0.325	40.7	38.8	----	----	0.3	59.6	49.6	41.0	39.1	----	----
0.396	34.0	31.9	----	----	0.3	57.9	47.9	34.3	32.2	----	----
0.458	40.0	39.1	----	----	0.3	56.7	46.7	40.3	39.4	----	----
3.179	14.5	15.0	----	----	0.6	56.0	46.0	15.1	15.6	----	----

4.Operation Mode : PlayTest Date : Dec. 11, 2002Temperature : 25Humidity: 60 %

Freq. (MHz)	Meter Reading (dB μ V)				Factor (dB)	Limit (dB μ V)		Result (dB μ V)			
	Q.P Value		AVG. Value			Q.P Value	AVG. Value	Q.P Value		AVG. Value	
	N	L1	N	L1				N	L1	N	L1
0.192	51.2	50.2	----	----	0.2	63.9	53.9	51.4	50.4	----	----
0.263	40.5	39.6	----	----	0.2	61.3	51.3	40.7	39.8	----	----
0.321	37.0	34.9	----	----	0.3	59.7	49.7	37.3	35.2	----	----
0.875	41.3	40.3	----	----	0.3	56.0	46.0	41.6	40.6	----	----
3.175	16.9	16.6	----	----	0.6	56.0	46.0	17.5	17.2	----	----
3.300	17.4	17.0	----	----	0.6	56.0	46.0	18.0	17.6	----	----

Note : 1. Please see appendix 1 for Plotted Data

2. The expanded uncertainty of the conducted emission tests is 2.45 dB.

B. Type No. : ODC-100

1.Operation Mode : ReadTest Date : Dec. 11, 2002Temperature : 25Humidity: 60 %

Freq. (MHz)	Meter Reading (dB μ V)				Factor (dB)	Limit (dB μ V)		Result (dB μ V)			
	Q.P Value		AVG. Value			Q.P Value	AVG. Value	Q.P Value		AVG. Value	
	N	L1	N	L1				N	L1	N	L1
0.200	52.0	51.3	----	----	0.2	63.6	53.6	52.2	51.5	----	----
0.400	45.8	44.2	----	----	0.3	57.9	47.9	46.1	44.5	----	----
0.794	40.1	40.0	----	----	0.3	56.0	46.0	40.4	40.3	----	----
3.183	13.7	13.8	----	----	0.6	56.0	46.0	14.3	14.4	----	----
3.453	13.0	13.3	----	----	0.6	56.0	46.0	13.6	13.9	----	----
6.398	12.8	11.5	----	----	0.7	60.0	50.0	13.5	12.2	----	----

2.Operation Mode : PlayTest Date : Dec. 11, 2002Temperature : 25Humidity: 60 %

Freq. (MHz)	Meter Reading (dB μ V)				Factor (dB)	Limit (dB μ V)		Result (dB μ V)			
	Q.P Value		AVG. Value			Q.P Value	AVG. Value	Q.P Value		AVG. Value	
	N	L1	N	L1				N	L1	N	L1
0.200	52.2	51.5	----	----	0.2	63.6	53.6	52.4	51.7	----	----
0.400	45.7	44.6	----	----	0.3	57.9	47.9	46.0	44.9	----	----
0.470	44.1	43.4	----	----	0.3	56.5	46.5	44.4	43.7	----	----
1.000	40.1	40.4	----	----	0.3	56.0	46.0	40.4	40.7	----	----
3.480	35.3	33.7	----	----	0.6	56.0	46.0	35.9	34.3	----	----
5.820	30.9	28.4	----	----	0.7	60.0	50.0	31.6	29.1	----	----

Note : 1. Please see appendix 1 for Plotted Data

2. The expanded uncertainty of the conducted emission tests is 2.45 dB.

C. Type No. : ODV-100

1.Operation Mode : ReadTest Date : Dec. 11, 2002Temperature: 25Humidity: 60 %

Freq. (MHz)	Meter Reading (dB μ V)				Factor (dB)	Limit (dB μ V)		Result (dB μ V)			
	Q.P Value		AVG. Value			Q.P Value	AVG. Value	Q.P Value		AVG. Value	
	N	L1	N	L1				N	L1	N	L1
0.200	52.0	52.1	----	----	0.2	63.6	53.6	52.2	52.3	----	----
0.400	43.8	45.2	----	----	0.3	57.9	47.9	44.1	45.5	----	----
0.466	44.7	45.1	----	----	0.3	56.6	46.6	45.0	45.4	----	----
0.734	41.4	40.9	----	----	0.3	56.0	46.0	41.7	41.2	----	----
3.480	36.1	35.3	----	----	0.6	56.0	46.0	36.7	35.9	----	----
6.824	26.6	29.8	----	----	0.7	60.0	50.0	27.3	30.5	----	----

2.Operation Mode : PlayTest Date : Dec. 11, 2002Temperature: 25Humidity: 60 %

Freq. (MHz)	Meter Reading (dB μ V)				Factor (dB)	Limit (dB μ V)		Result (dB μ V)			
	Q.P Value		AVG. Value			Q.P Value	AVG. Value	Q.P Value		AVG. Value	
	N	L1	N	L1				N	L1	N	L1
0.200	52.1	52.0	----	----	0.2	63.6	53.6	52.3	52.2	----	----
0.400	45.2	43.8	----	----	0.3	57.9	47.9	45.5	44.1	----	----
0.466	45.1	44.7	----	----	0.3	56.6	46.6	45.4	45.0	----	----
0.734	40.9	41.4	----	----	0.3	56.0	46.0	41.2	41.7	----	----
3.480	35.3	36.1	----	----	0.6	56.0	46.0	35.9	36.7	----	----
6.820	29.8	26.6	----	----	0.7	60.0	50.0	30.5	27.3	----	----

Note : 1. Please see appendix 1 for Plotted Data

2. The expanded uncertainty of the conducted emission tests is 2.45 dB.

D. Type No. : ODR-100

1.Operation Mode : ReadTest Date : Dec. 11, 2002Temperature: 25Humidity: 60 %

Freq. (MHz)	Meter Reading (dB μ V)				Factor (dB)	Limit (dB μ V)		Result (dB μ V)			
	Q.P Value		AVG. Value			Q.P Value	AVG. Value	Q.P Value		AVG. Value	
	N	L1	N	L1				N	L1	N	L1
0.200	51.0	50.1	----	----	0.2	63.6	53.6	51.2	50.3	----	----
0.329	40.3	38.1	----	----	0.3	59.5	49.5	40.6	38.4	----	----
0.730	43.1	42.7	----	----	0.3	56.0	46.0	43.4	43.0	----	----
0.875	43.8	42.8	----	----	0.3	56.0	46.0	44.1	43.1	----	----
3.730	36.5	36.7	----	----	0.6	56.0	46.0	37.1	37.3	----	----
20.550	31.0	30.0	----	----	1.4	60.0	50.0	32.4	31.4	----	----

2.Operation Mode : WriteTest Date : Dec. 11, 2002Temperature: 25Humidity: 60 %

Freq. (MHz)	Meter Reading (dB μ V)				Factor (dB)	Limit (dB μ V)		Result (dB μ V)			
	Q.P Value		AVG. Value			Q.P Value	AVG. Value	Q.P Value		AVG. Value	
	N	L1	N	L1				N	L1	N	L1
0.192	46.3	45.0	----	----	0.2	63.9	53.9	46.5	45.2	----	----
0.263	44.0	42.8	----	----	0.2	61.3	51.3	44.2	13.0	----	----
0.325	41.8	40.2	----	----	0.3	59.6	49.6	42.1	40.5	----	----
0.392	41.1	38.4	----	----	0.3	58.0	48.0	41.4	38.7	----	----
0.523	31.5	31.2	----	----	0.3	56.0	46.0	31.8	31.5	----	----
1.242	28.7	30.5	----	----	0.3	56.0	46.0	29.0	30.8	----	----

Note : 1. Please see appendix 1 for Plotted Data

2. The expanded uncertainty of the conducted emission tests is 2.45 dB.

3.Operation Mode : RewriteTest Date : Dec. 11, 2002Temperature : 25Humidity: 60 %

Freq. (MHz)	Meter Reading (dB μ V)				Factor (dB)	Limit (dB μ V)		Result (dB μ V)			
	Q.P Value		AVG. Value			Q.P	AVG.	Q.P Value		AVG. Value	
	N	L1	N	L1		Value	Value	N	L1	N	L1
0.196	49.3	47.9	----	----	0.2	63.8	53.8	49.5	48.1	----	----
0.259	42.8	41.7	----	----	0.2	61.5	51.5	43.0	41.9	----	----
0.325	41.4	40.0	----	----	0.3	59.6	49.6	14.7	40.3	----	----
0.392	40.6	37.8	----	----	0.3	58.0	48.0	40.9	38.1	----	----
0.458	40.9	40.1	----	----	0.3	56.7	46.7	41.2	40.4	----	----
1.113	33.9	34.9	----	----	0.3	56.0	46.0	34.2	35.2	----	----

4.Operation Mode : PlayTest Date : Dec. 11, 2002Temperature : 25Humidity: 60 %

Freq. (MHz)	Meter Reading (dB μ V)				Factor (dB)	Limit (dB μ V)		Result (dB μ V)			
	Q.P Value		AVG. Value			Q.P	AVG.	Q.P Value		AVG. Value	
	N	L1	N	L1		Value	Value	N	L1	N	L1
0.200	51.0	50.2	----	----	0.2	63.6	53.6	51.2	50.4	----	----
0.730	42.7	38.3	----	----	0.3	56.0	46.0	43.0	38.6	----	----
0.871	40.8	32.9	----	----	0.3	56.0	46.0	41.1	33.2	----	----
3.250	13.1	15.3	----	----	0.6	56.0	46.0	13.7	15.9	----	----
3.850	17.2	17.9	----	----	0.6	56.0	46.0	17.8	18.5	----	----
6.510	17.0	14.5	----	----	0.7	60.0	50.0	17.7	15.2	----	----

Note : 1. Please see appendix 1 for Plotted Data

2. The expanded uncertainty of the conducted emission tests is 2.45 dB.

5.4 Result Data Calculation

The result data is calculated by adding the LISN Factor to the measured reading. The basic equation with a sample calculation is as follows:

$$\textbf{RESULT} = \textbf{READING} + \textbf{LISN FACTOR}$$

Assume a receiver reading of 22.5 dB μ V is obtained, and LISN Factor is 0.1 dB, then the total of disturbance voltage is 22.6 dB μ V.

$$\text{RESULT} = 22.5 + 0.1 = 22.6 \text{ dB } \mu \text{ V}$$

$$\begin{aligned} \text{Level in } \mu \text{ V} &= \text{Common Antilogarithm}[(22.6 \text{ dB } \mu \text{ V})/20] \\ &= 13.48 \mu \text{ V} \end{aligned}$$

5.5 Conducted Measurement Equipment

The following test equipment are used during the conducted test.

Equipment	Manufacturer	Model No.	Next Cal. Date
RF Test Receiver	Rohde and Schwarz	ESH3	01/03/2003
Spectrum Monitor	Rohde and Schwarz	EZM	N.C.R.
Line Impedance Stabilization network	Rohde and Schwarz	ESH2-Z5	08/06/2003
Line Impedance Stabilization network	Kyoritsu	KNW-407	12/02/2003
Plotter	Hewlett-Packard	7440A	N/A
Shielded Room	Riken	N/A	N.C.R.

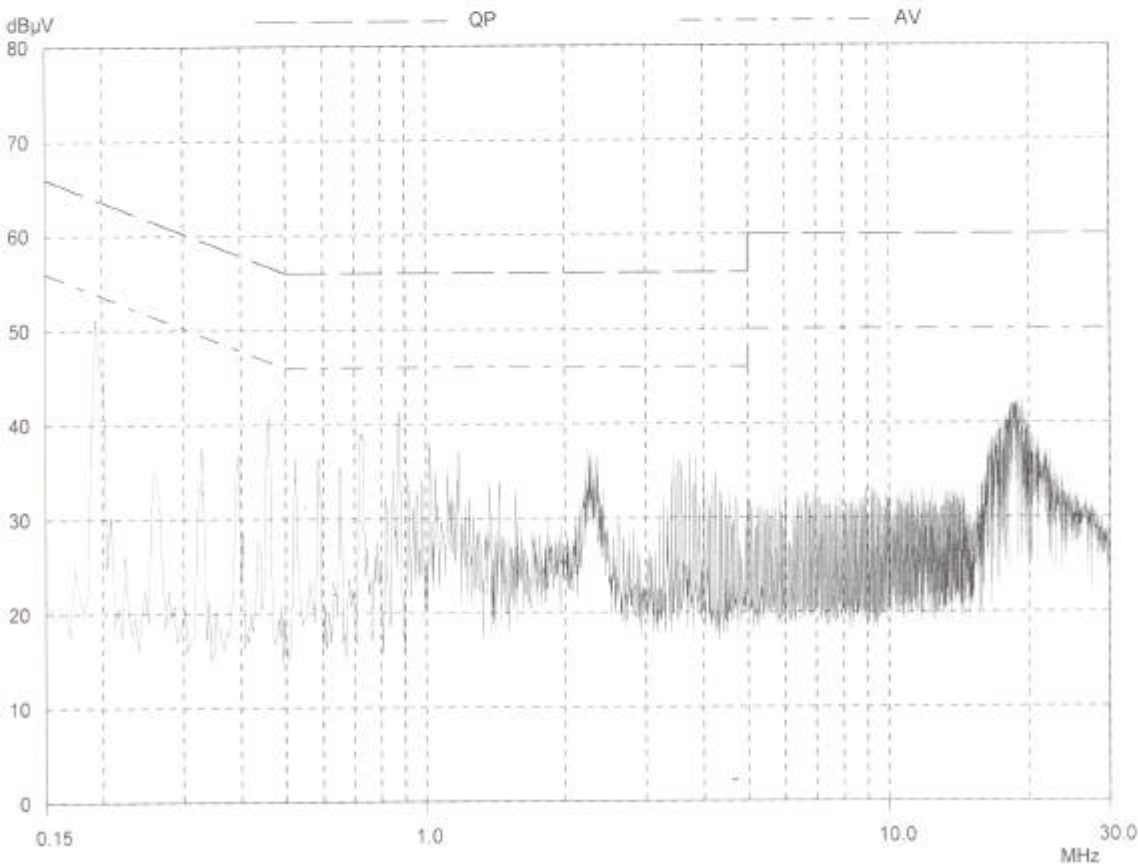
APPENDIX 1 : PLOTTED DATA FOR CONDUCTED EMISSION

CONDUCTION EMISSION TEST

Peak Value

EUT: DVD-RW
Manuf:
Op Cond: READ
Operator:
Test Spec:
Comment:
N
Result File: DVD-RW7.dat : New Measurement

Final Measurement: Detector: X QP
Meas Time: 1sec
Peaks: 8
Acc Margin: 25 dB

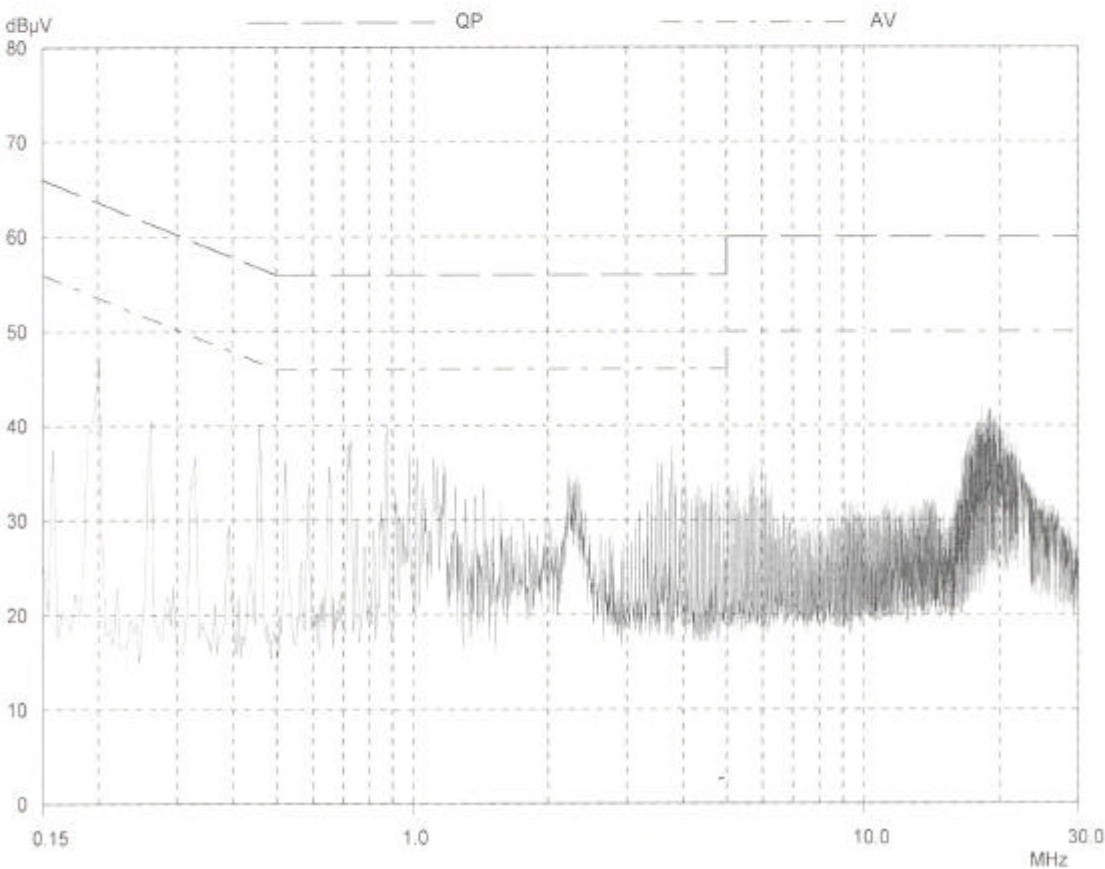


CONDUCTION EMISSION TEST

Peak Value

EUT: DVD-RW
Manuf:
Op Cond: READ
Operator:
Test Spec:
Comment:
L1
Result File: DVD-RW6.dat : New Measurement

Final Measurement: Detector: X QP
Meas Time: 1sec
Peaks: 8
Acc Margin: 25 dB

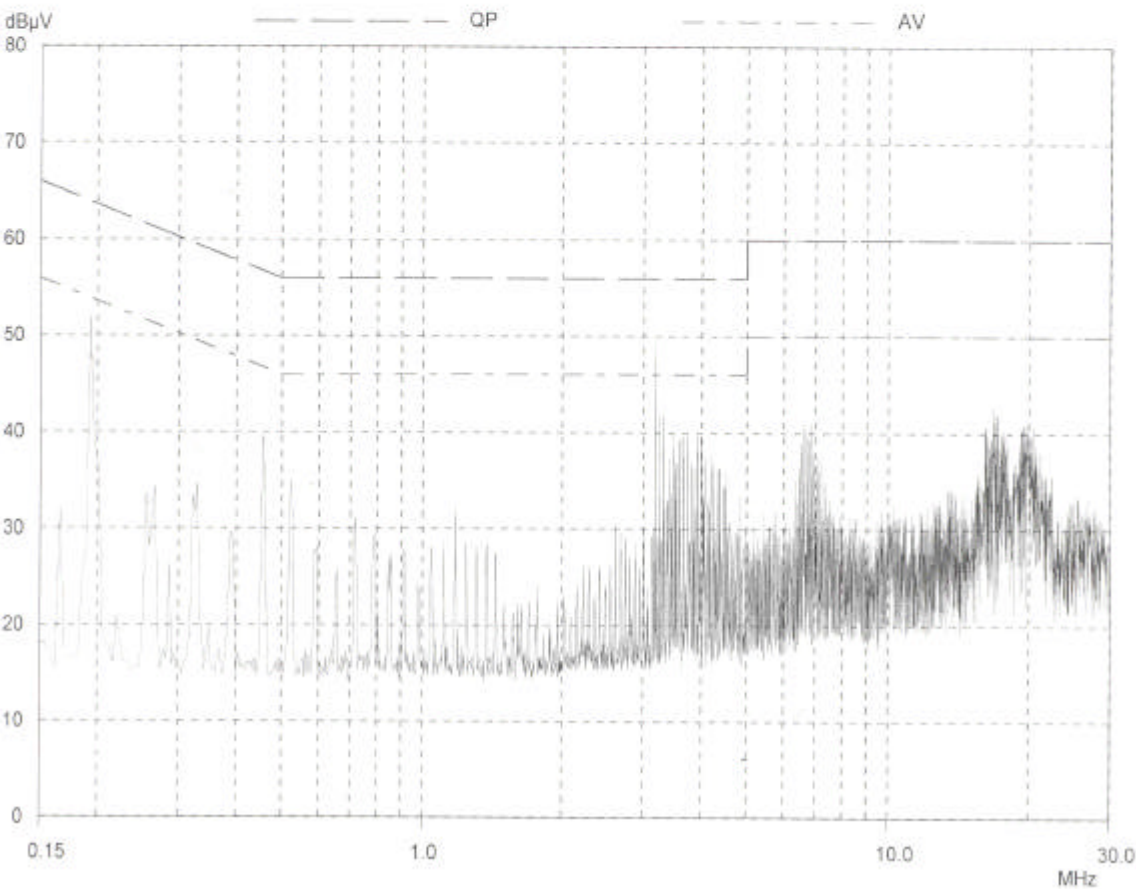


CONDUCTION EMISSION TEST

Peak Value

EUT: DVD-RW
Manuf:
Op Cond: WRITE
Operator:
Test Spec:
Comment: N

Final Measurement: Detector: X QP
Meas Time: 1sec
Peaks: 8
Acc Margin: 25 dB

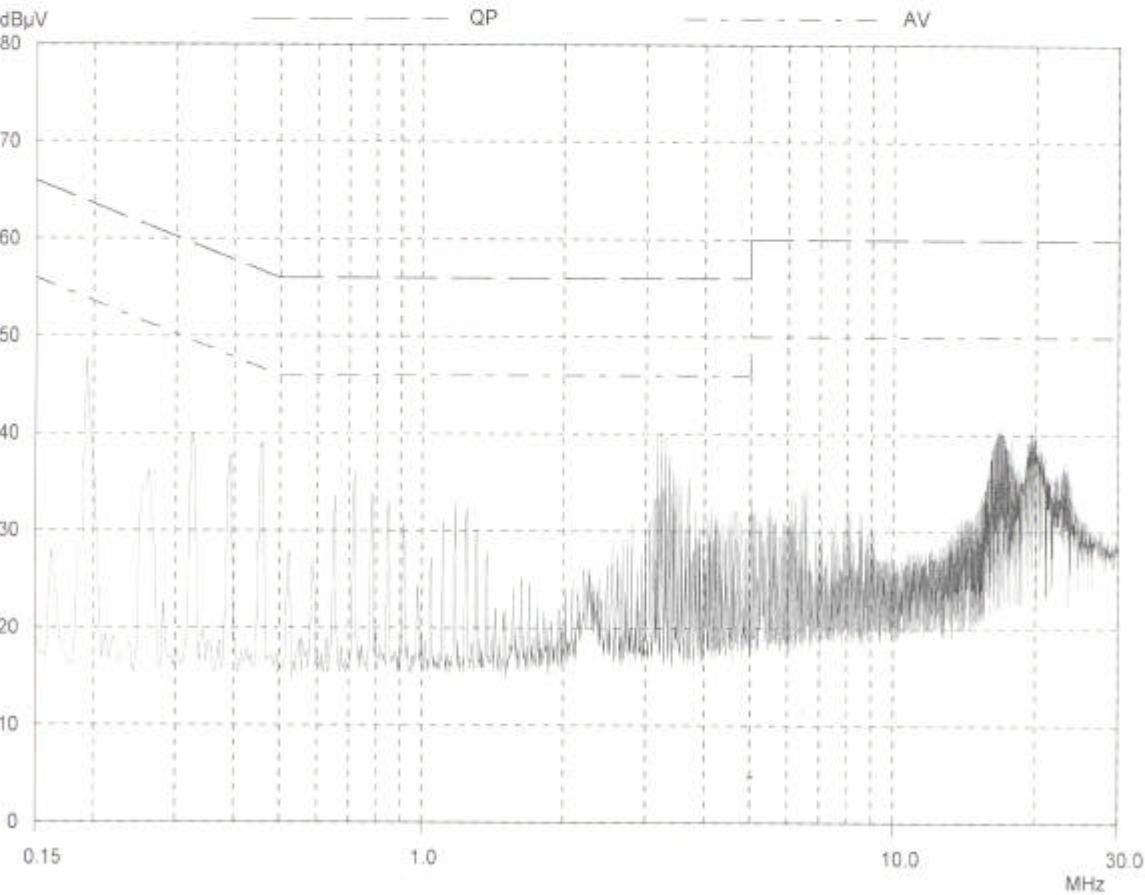


CONDUCTION EMISSION TEST

Peak Value

EUT: DVD-RW
Manuf:
Op Cond: WRITE
Operator:
Test Spec:
Comment: L1

Final Measurement: Detector: X QP
Meas Time: 1sec
Peaks: 8
Acc Margin: 25 dB

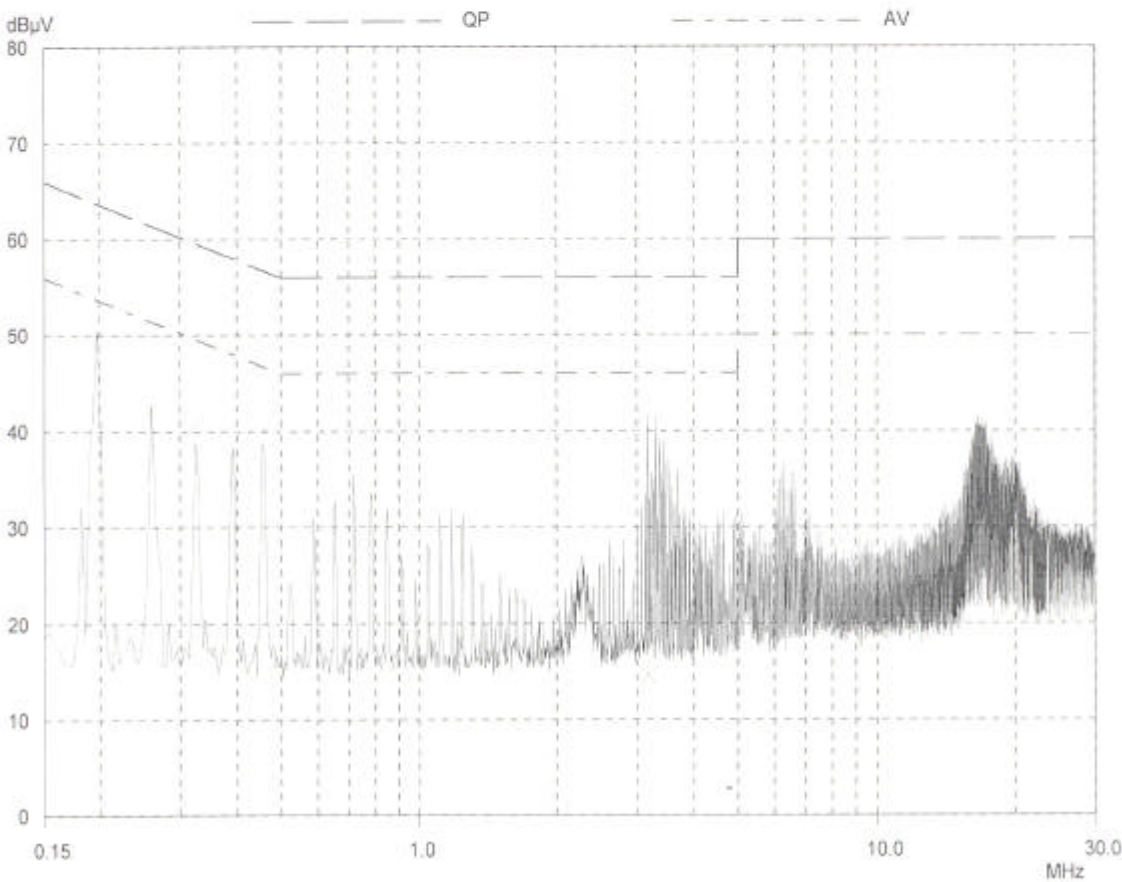


CONDUCTION EMISSION TEST

Peak Value

EUT: DVD-RW
Manuf:
Op Cond: REWRITE
Operator:
Test Spec:
Comment:
N
Result File: DVD-RW3.dat : New Measurement

Final Measurement: Detector: X QP
Meas Time: 1sec
Peaks: 8
Acc Margin: 25 dB

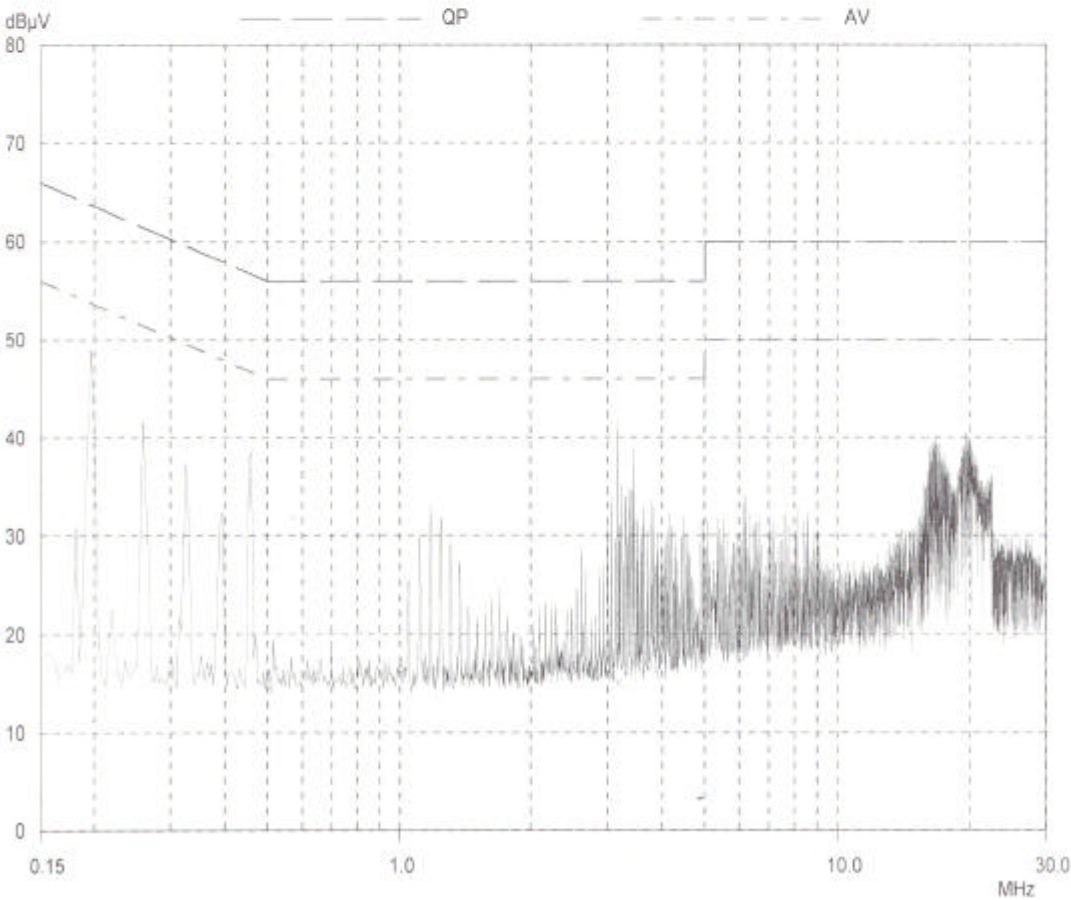


CONDUCTION EMISSION TEST

Peak Value

EUT: DVD-RW
Manuf:
Op Cond: REWRITE
Operator:
Test Spec:
Comment: L1

Final Measurement: Detector: X QP
Meas Time: 1sec
Peaks: 8
Acc Margin: 25 dB

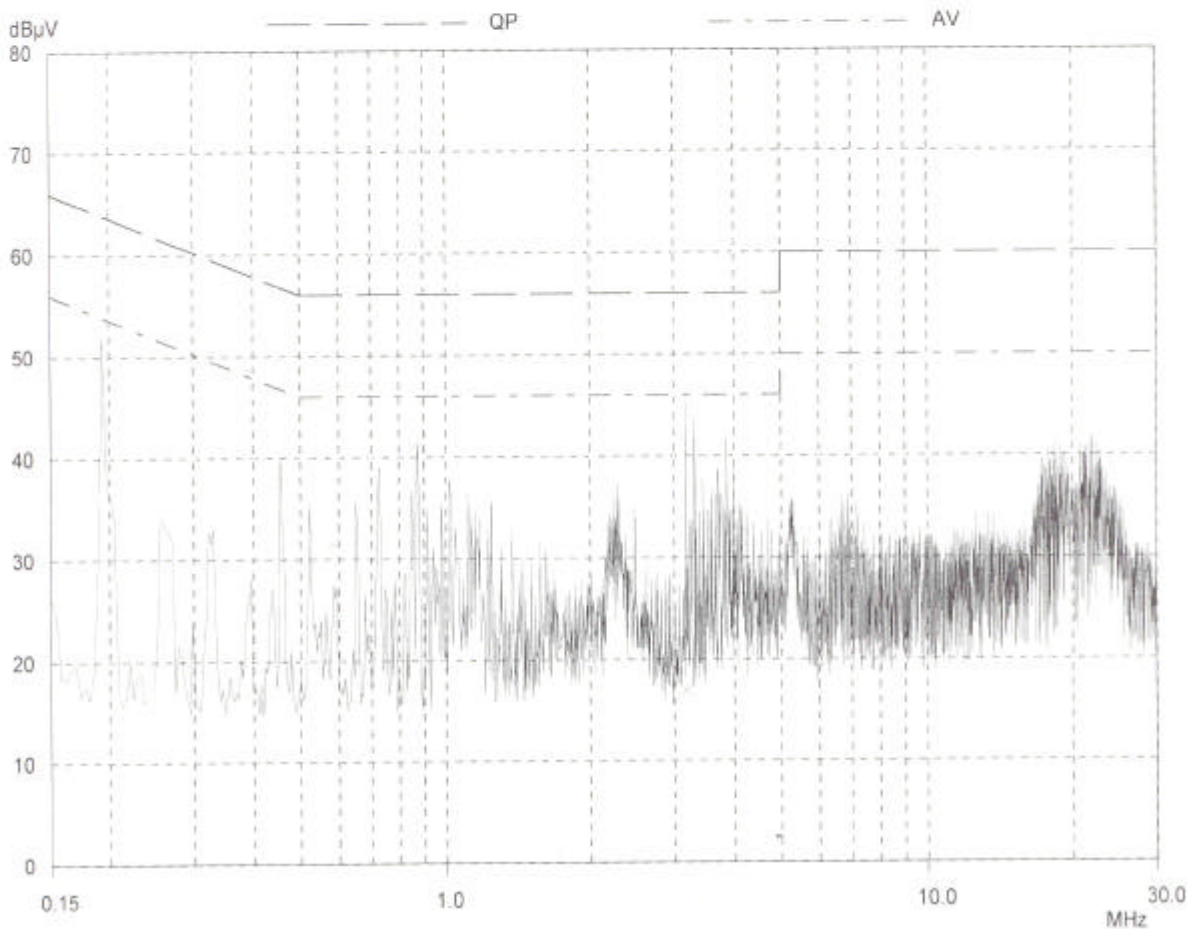


CONDUCTION EMISSION TEST

Peak Value

EUT: DVD-RW
Manuf:
Op Cond: PLAY
Operator:
Test Spec:
Comment:
N
Result File: DVD-RW4.dat : New Measurement

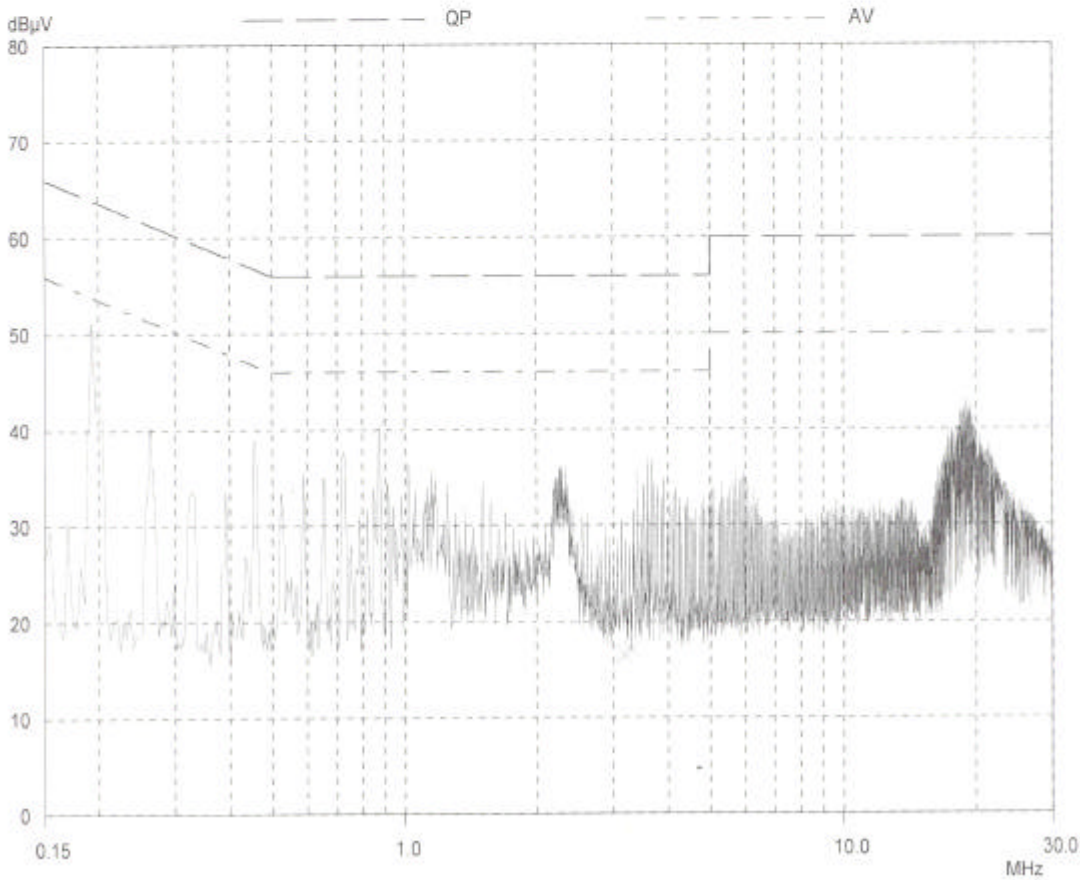
Final Measurement: Detector: X QP
Meas Time: 1sec
Peaks: 8
Acc Margin: 25 dB



CONDUCTION EMISSION TEST

Peak Value

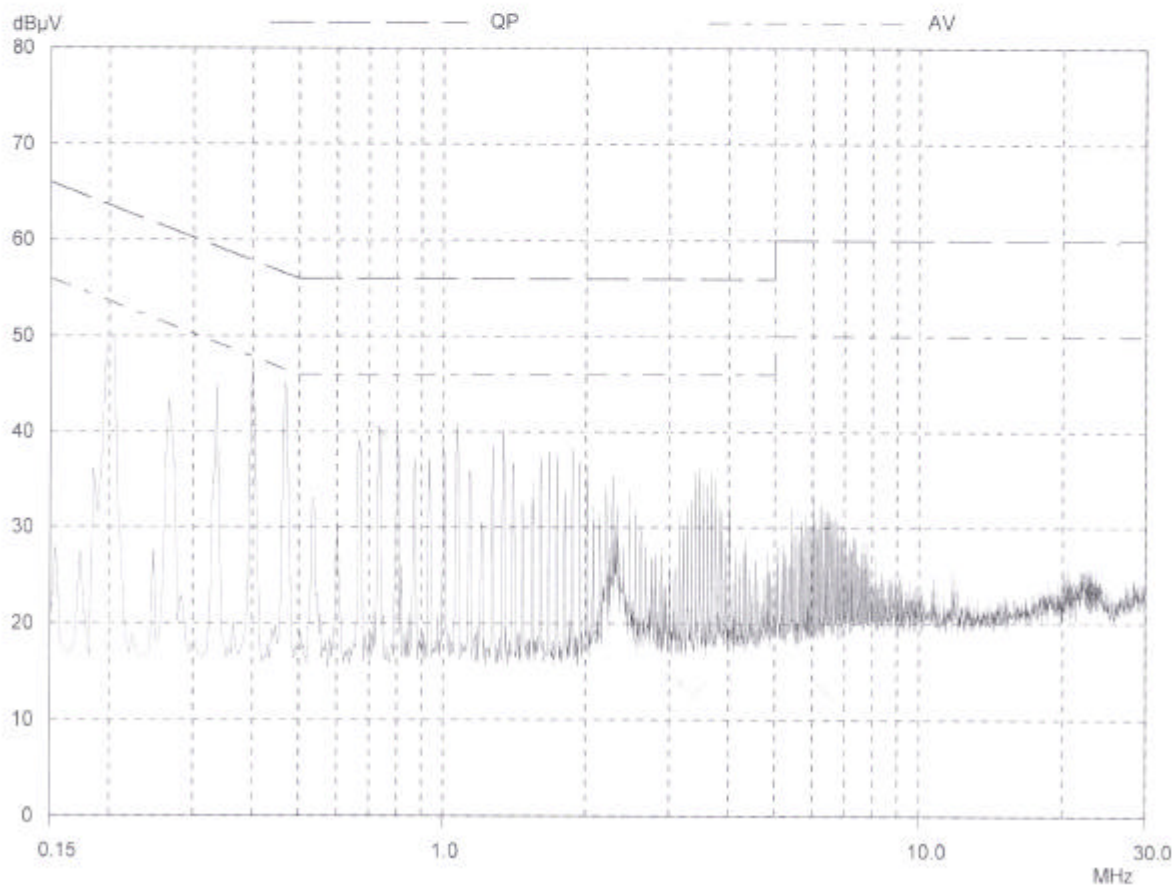
EUT: DVD-RW
Manuf:
Op Cond: PLAY
Operator:
Test Spec:
Comment:
L1
Result File: DVD-RW5.dat : New Measurement
Final Measurement: Detector: X QP
Meas Time: 1sec
Peaks: 8
Acc Margin: 25 dB



CONDUCTION EMISSION TEST

Peak Value

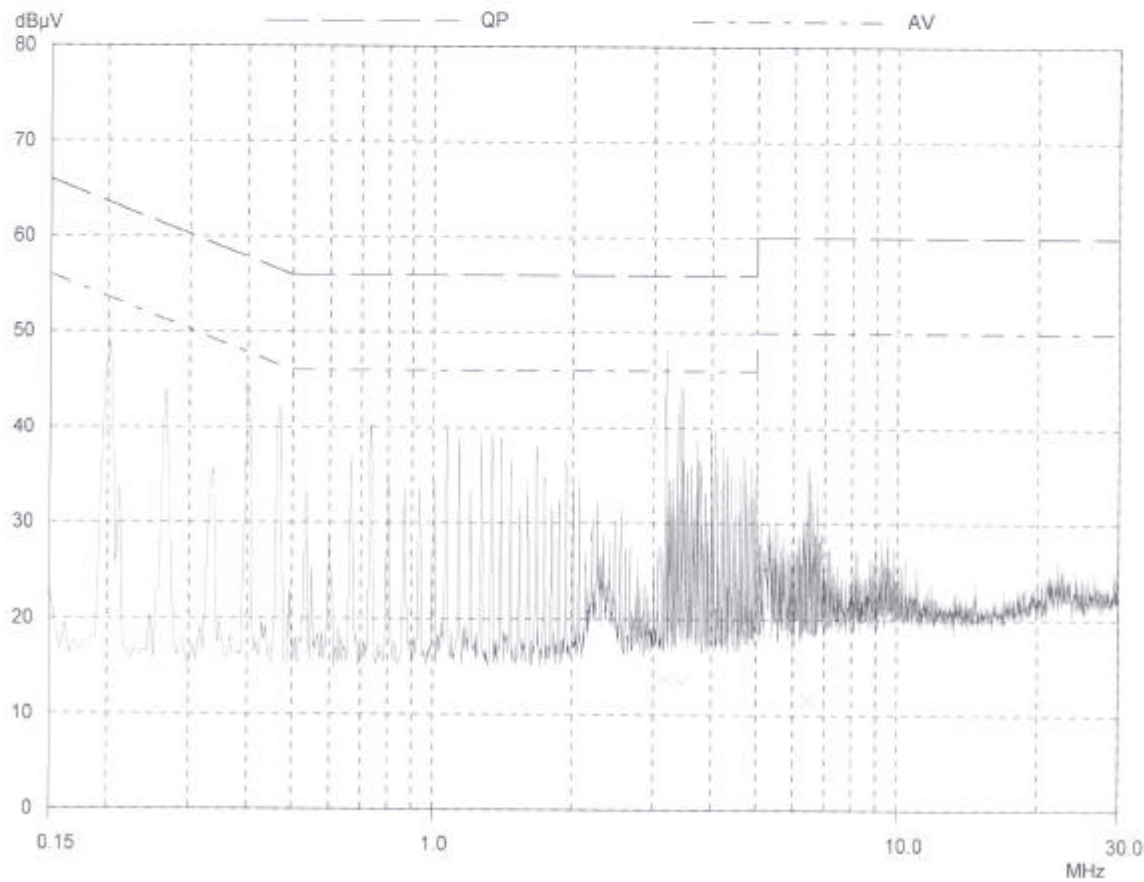
EUT: CD-ROM
Manuf:
Op Cond: READ
Operator:
Test Spec:
Comment:
N
Result File: qpn-cd.dat : New Measurement
Final Measurement: Detector: X QP
Meas Time: 1sec
Peaks: 8
Acc Margin: 25 dB



CONDUCTION EMISSION TEST

Peak Value

EUT: CD-ROM
Manuf:
Op Cond: READ
Operator:
Test Spec:
Comment:
L1
Result File: qpl1-cd.dat : New Measurement
Final Measurement: Detector: X QP
Meas Time: 1sec
Peaks: 8
Acc Margin: 25 dB

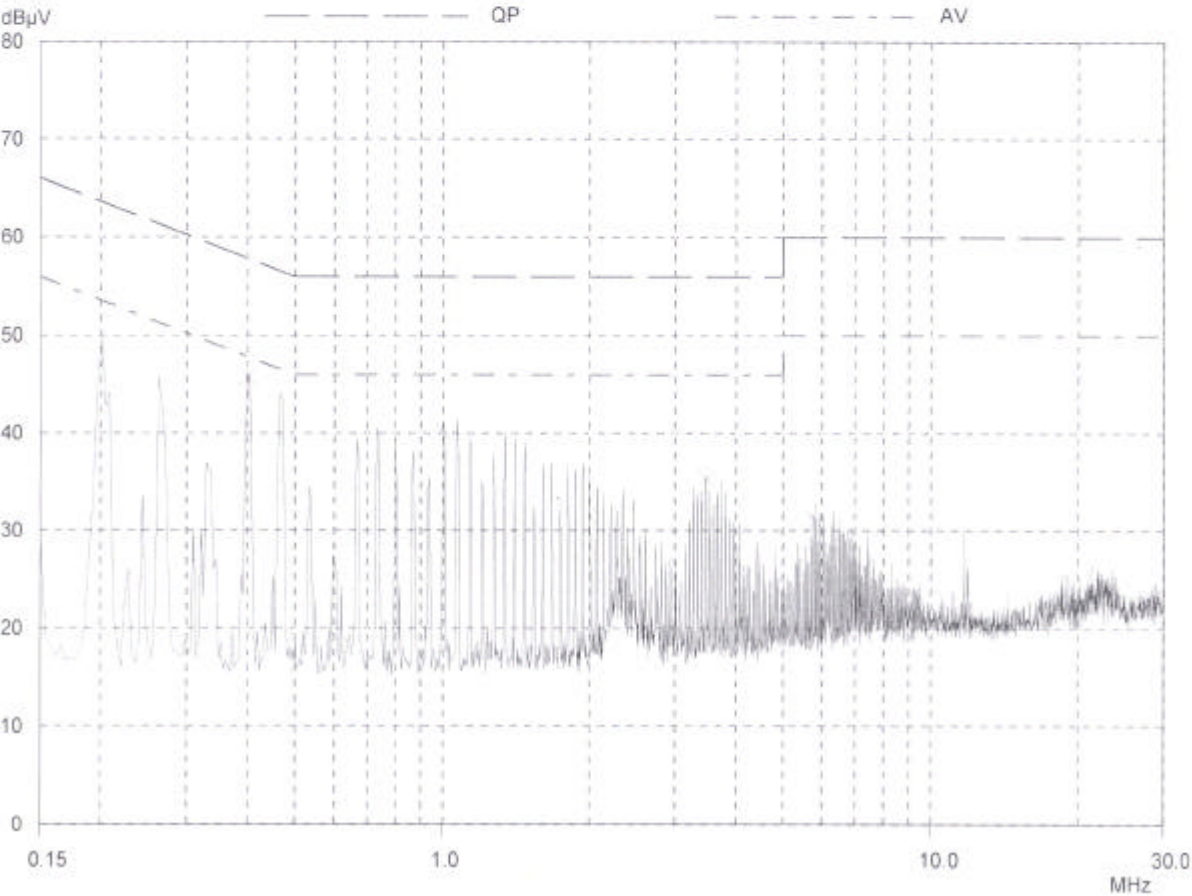


CONDUCTION EMISSION TEST

Peak Value

EUT: CD-ROM
Manuf:
Op Cond: PLAY
Operator:
Test Spec:
Comment:
N
Result File: qpn-cd.dat : New Measurement

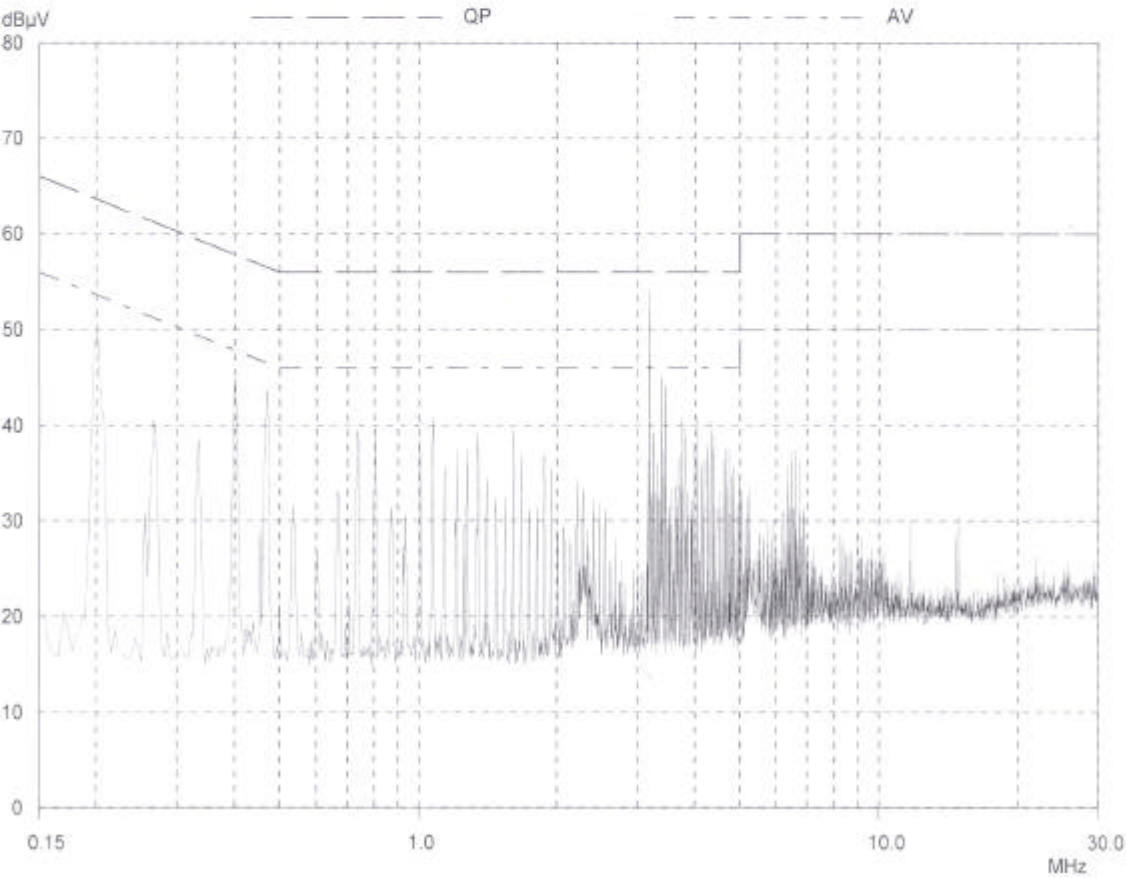
Final Measurement: Detector: X QP
 Meas Time: 1sec
 Peaks: 8
 Acc Margin: 25 dB



CONDUCTION EMISSION TEST

Peak Value

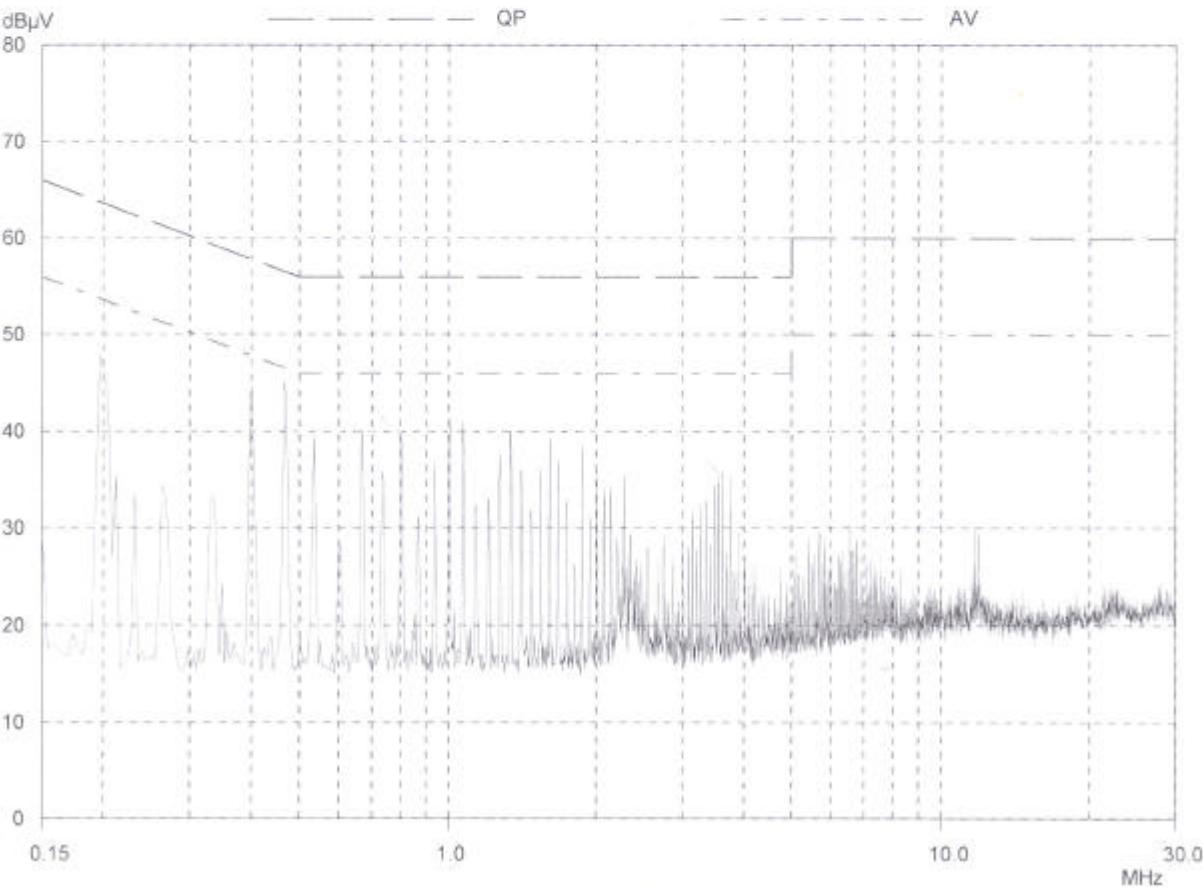
EUT: CD-ROM
Manuf:
Op Cond: PLAY
Operator:
Test Spec:
Comment:
L1
Result File: qpl1-cd.dat : New Measurement
Final Measurement: Detector: X QP
Meas Time: 1sec
Peaks: 8
Acc Margin: 25 dB



CONDUCTION EMISSION TEST

Peak Value

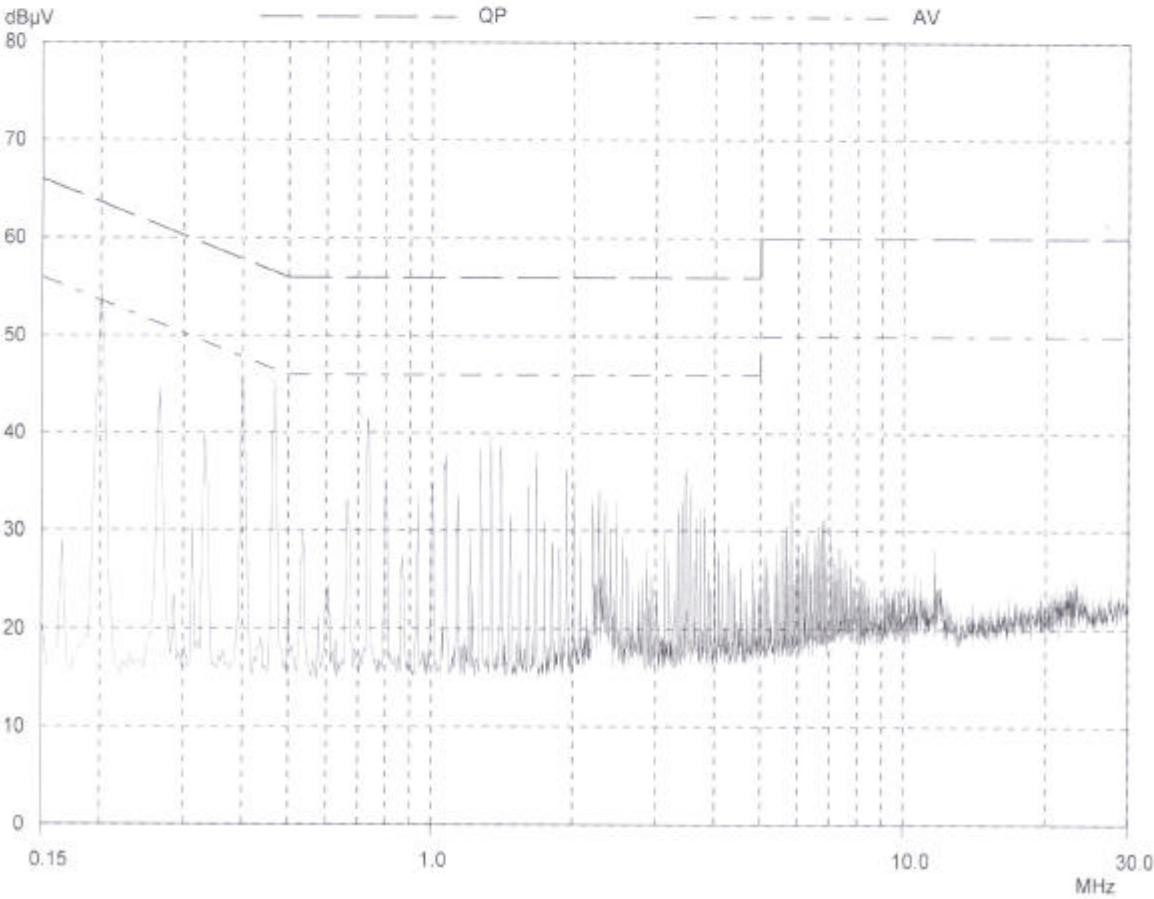
EUT: DVD-ROM
Manuf:
Op Cond: READ
Operator:
Test Spec:
Comment:
N
Result File: qpn-dvd.dat : New Measurement
Final Measurement: Detector: X QP
Meas Time: 1sec
Peaks: 8
Acc Margin: 25 dB



CONDUCTION EMISSION TEST

Peak Value

EUT: DVD-ROM
Manuf:
Op Cond: READ
Operator:
Test Spec:
Comment:
L1
Result File: qpl1-dvd.dat : New Measurement
Final Measurement: Detector: X QP
Meas Time: 1sec
Peaks: 8
Acc Margin: 25 dB

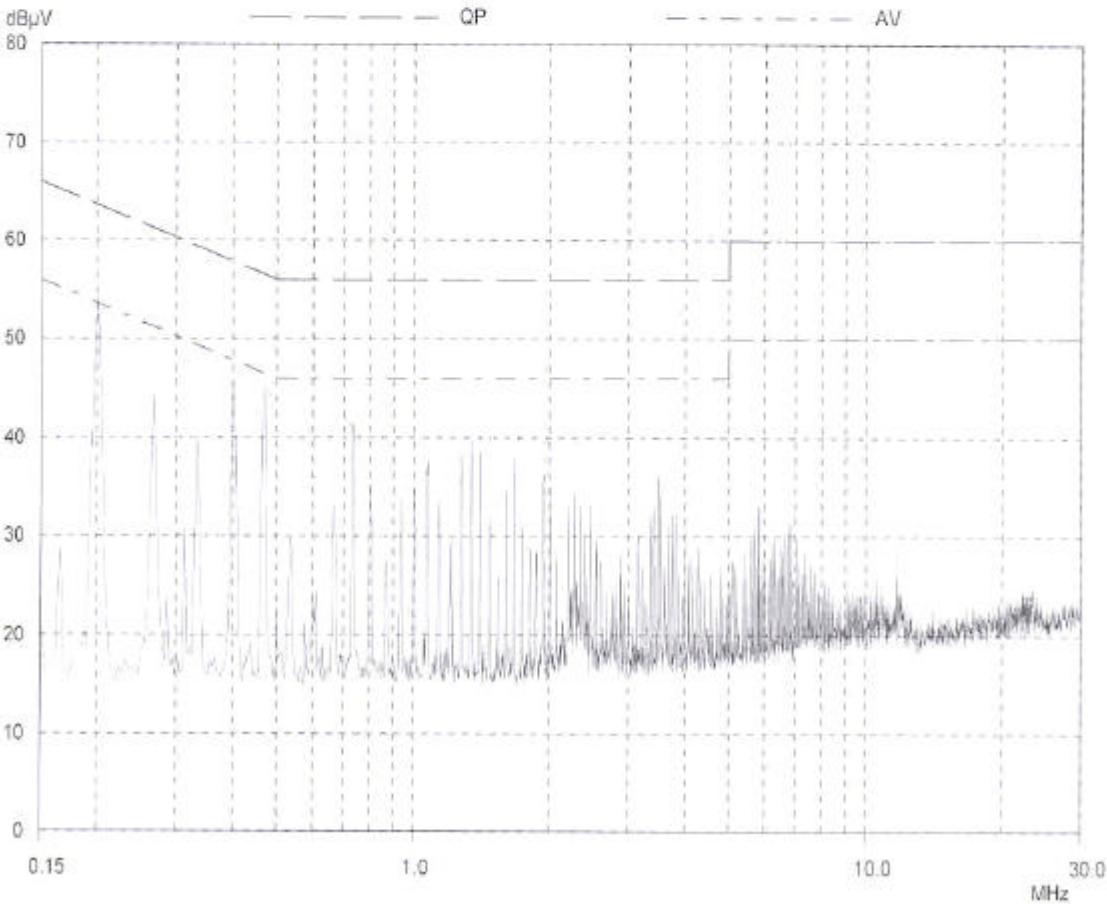


CONDUCTION EMISSION TEST

Peak Value

EUT: DVD-ROM
Manuf:
Op Cond: PLAY
Operator:
Test Spec:
Comment:
N
Result File: qpn-dvd.dat : New Measurement

Final Measurement: Detector: X QP
Meas Time: 1sec
Peaks: 8
Acc Margin: 25 dB

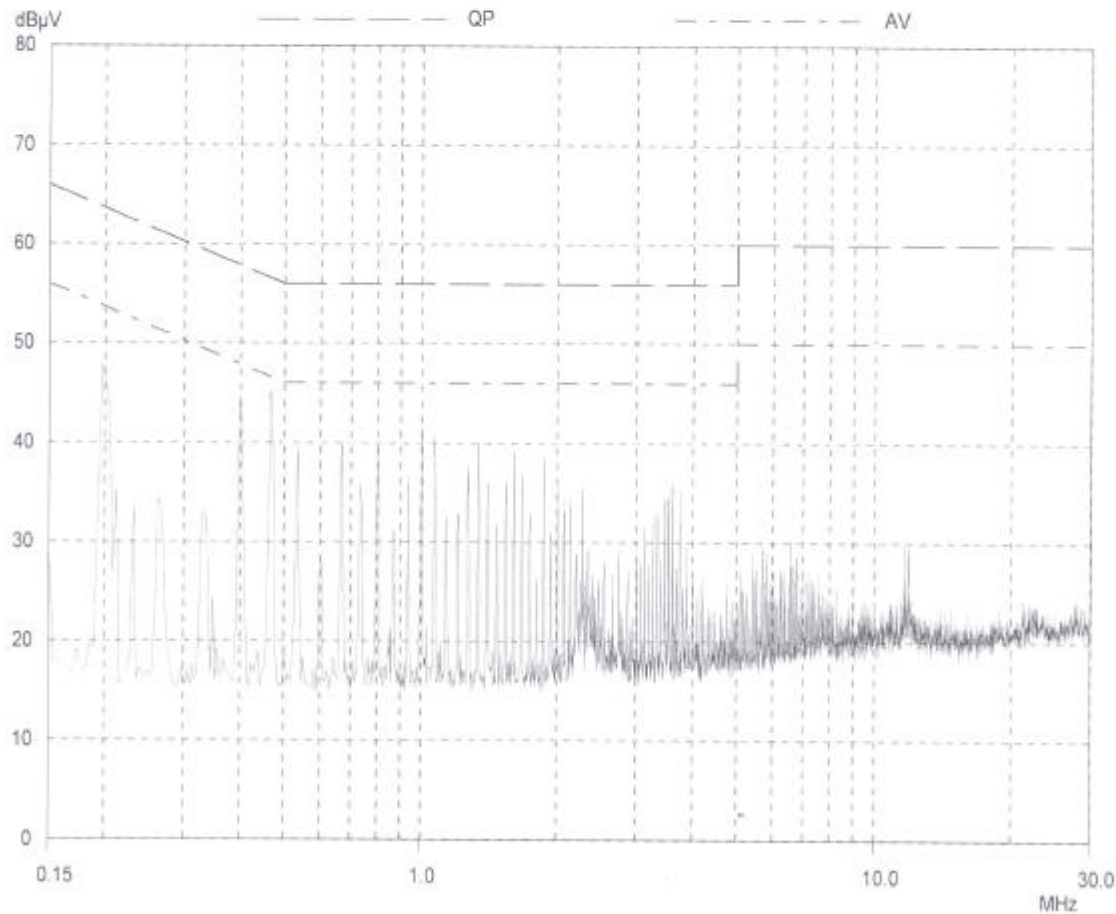


CONDUCTION EMISSION TEST

Peak Value

EUT: DVD-ROM
Manuf:
Op Cond: PLAY
Operator:
Test Spec:
Comment:
L1
Result File: qpl1-dvd.dat : New Measurement

Final Measurement: Detector: X QP
Meas Time: 1sec
Peaks: 8
Acc Margin: 25 dB

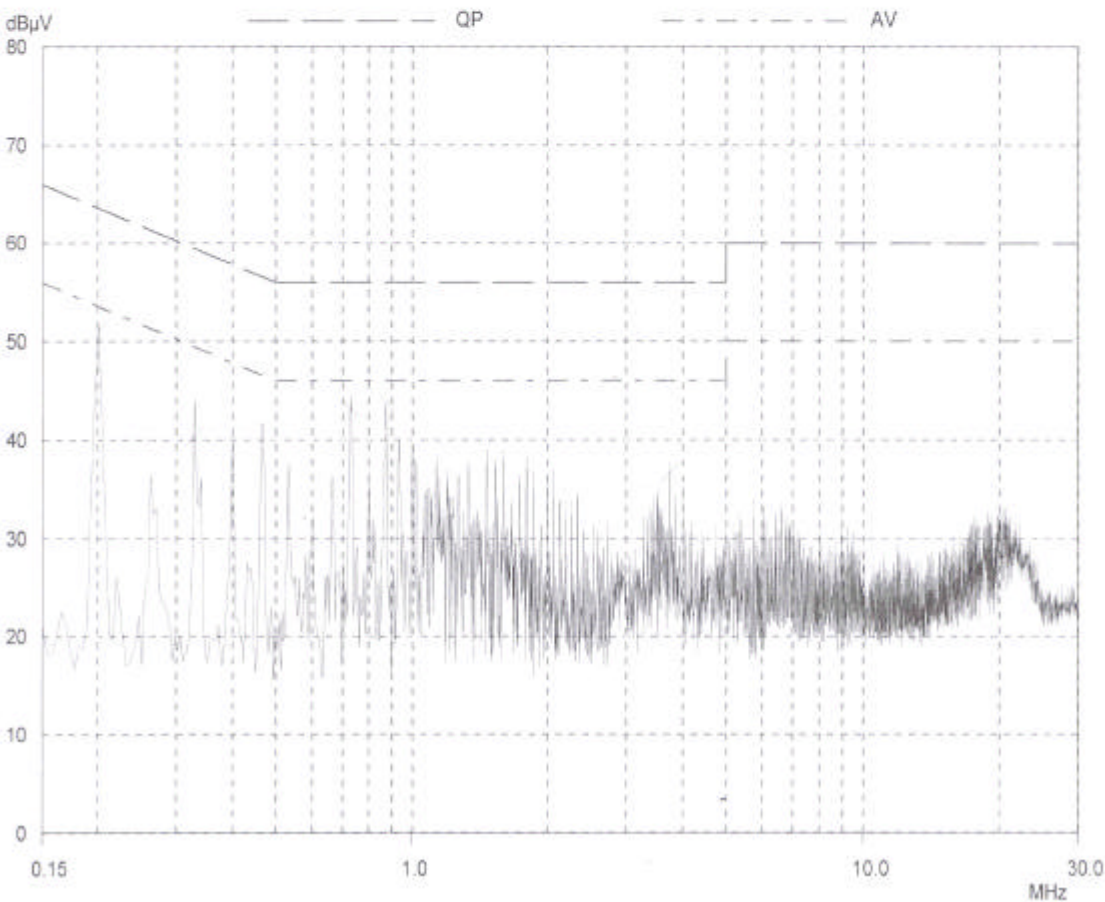


CONDUCTION EMISSION TEST

Peak Value

EUT: CD-RW
Manuf:
Op Cond: READ
Operator:
Test Spec:
Comment: N

Final Measurement: Detector: X QP
Meas Time: 1sec
Peaks: 8
Acc Margin: 25 dB

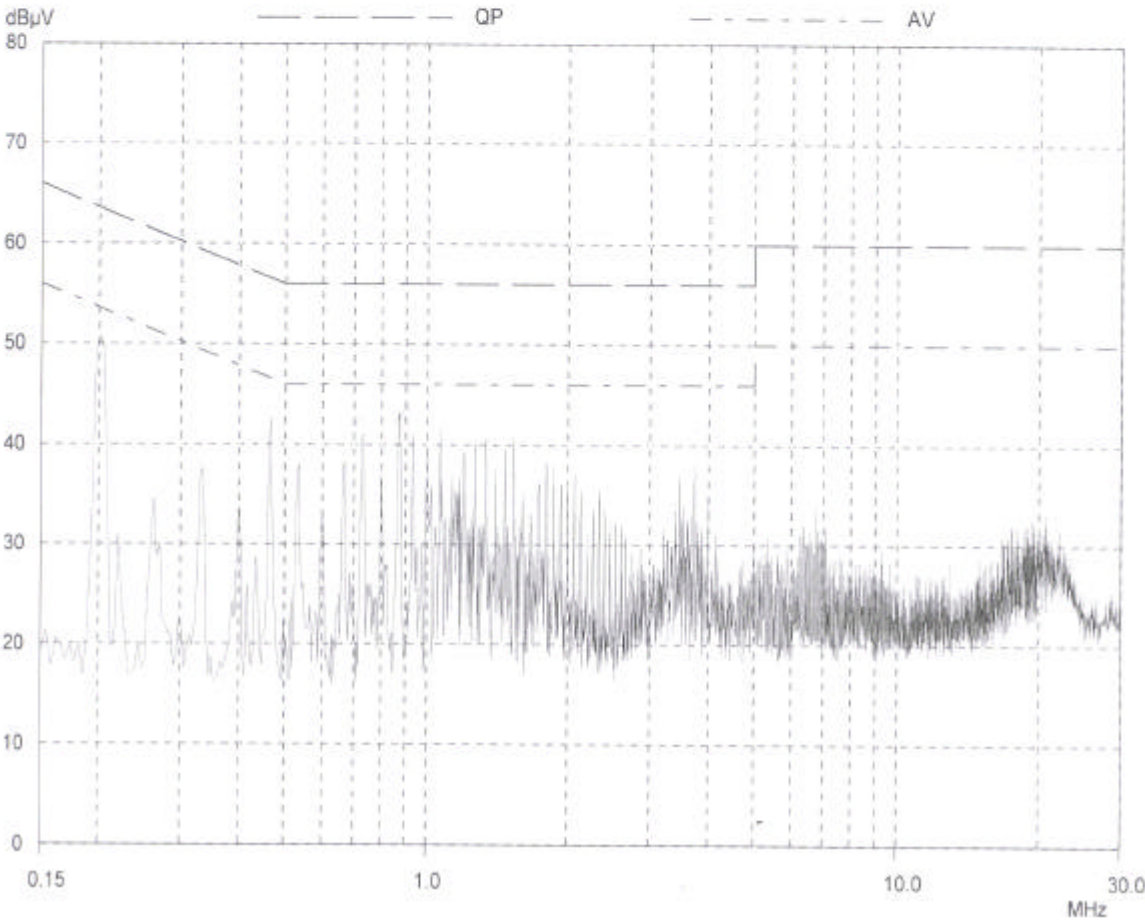


CONDUCTION EMISSION TEST

Peak Value

EUT: CD-RW
Manuf:
Op Cond: READ
Operator:
Test Spec:
Comment:
L1
Result File: QPN-CDRW.dat : New Measurement

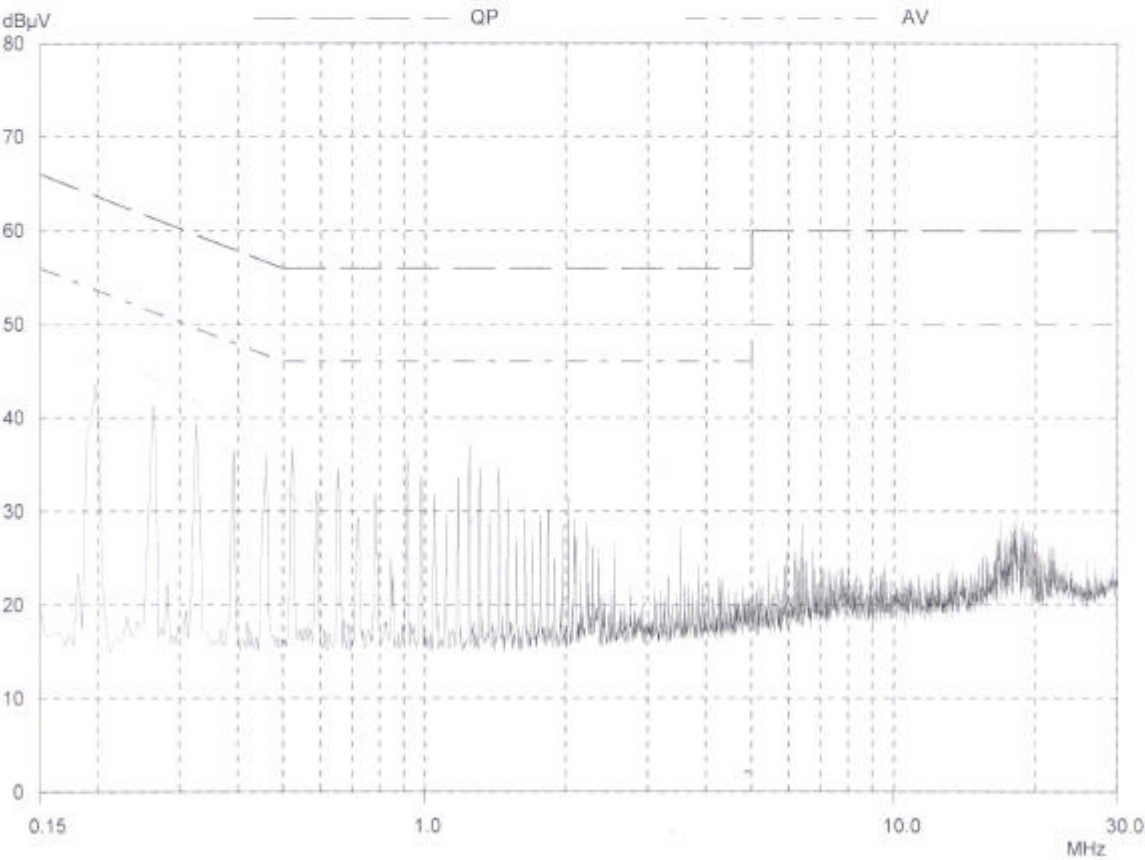
Final Measurement: Detector: X QP
Meas Time: 1sec
Peaks: 8
Acc Margin: 25 dB



CONDUCTION EMISSION TEST

EUT: CDRW
Manuf:
Op Cond: WRITE
Operator:
Test Spec:
Comment: N

Final Measurement: Detector: X QP
Meas Time: 1sec
Peaks: 8
Acc Margin: 25 dB

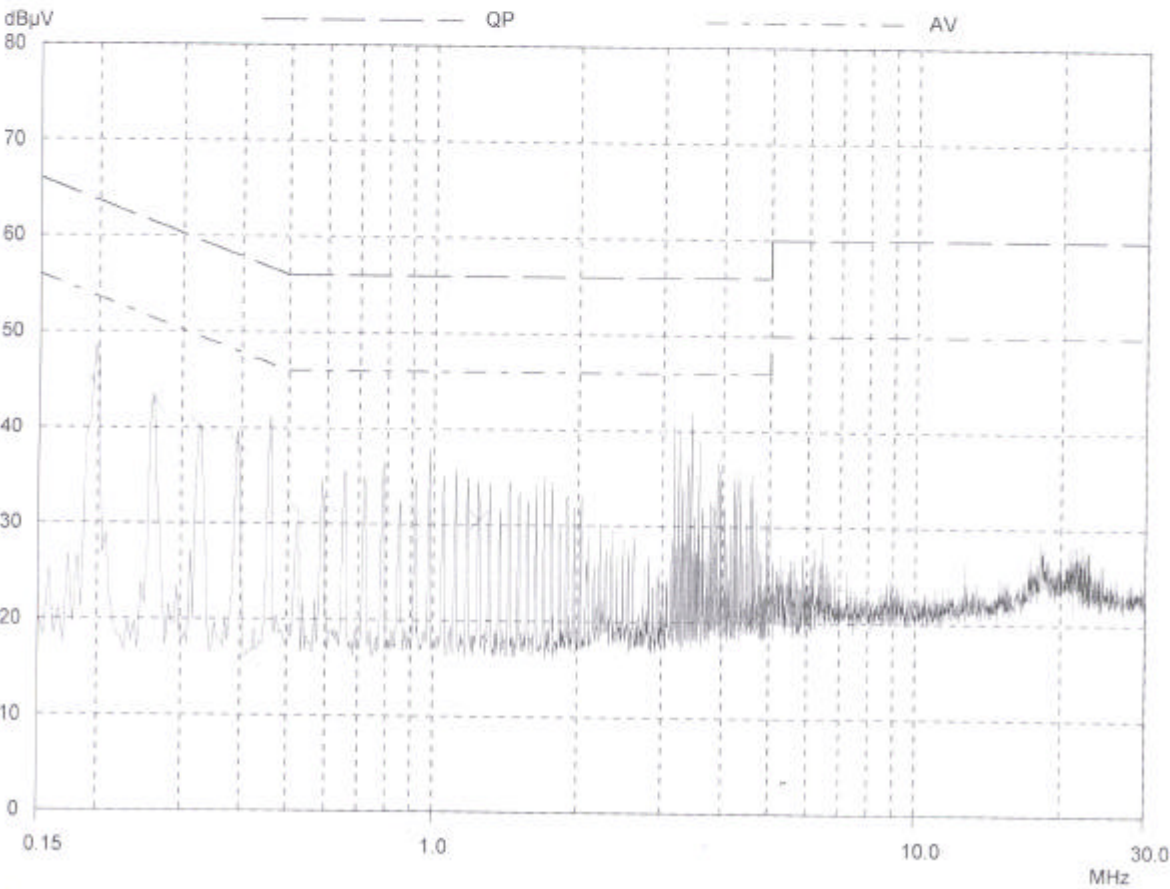


CONDUCTION EMISSION TEST

EUT: CDRW
Manuf:
Op Cond: WRITE
Operator:
Test Spec:
Comment: L1

Result File: 10.dat : New Measurement

Final Measurement: Detector: X QP
 Meas Time: 1sec
 Peaks: 8
 Acc Margin: 25 dB

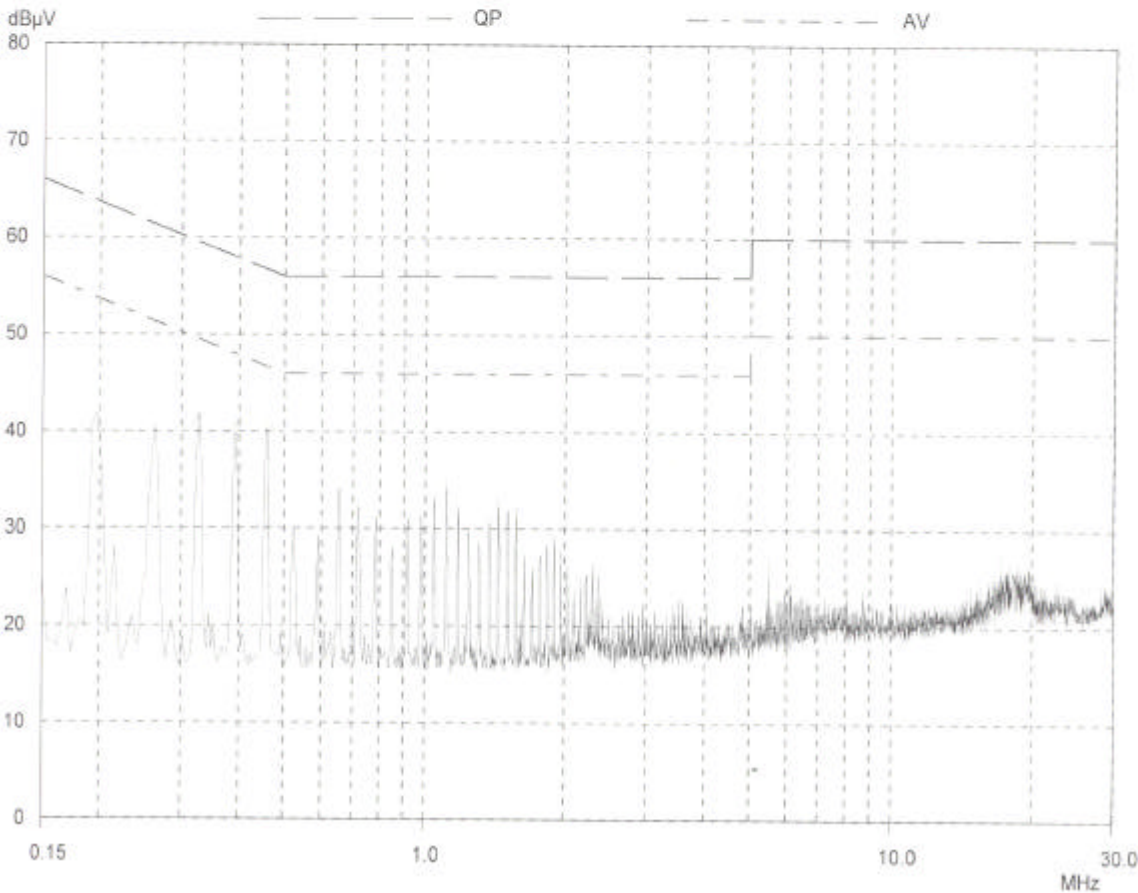


CONDUCTION EMISSION TEST

EUT: CDRW
Manuf:
Op Cond: REWRITE
Operator:
Test Spec:
Comment: N

Result File: CDRWN-1.dat : New Measurement

Final Measurement: Detector: X QP
 Meas Time: 1sec
 Peaks: 8
 Acc Margin: 25 dB

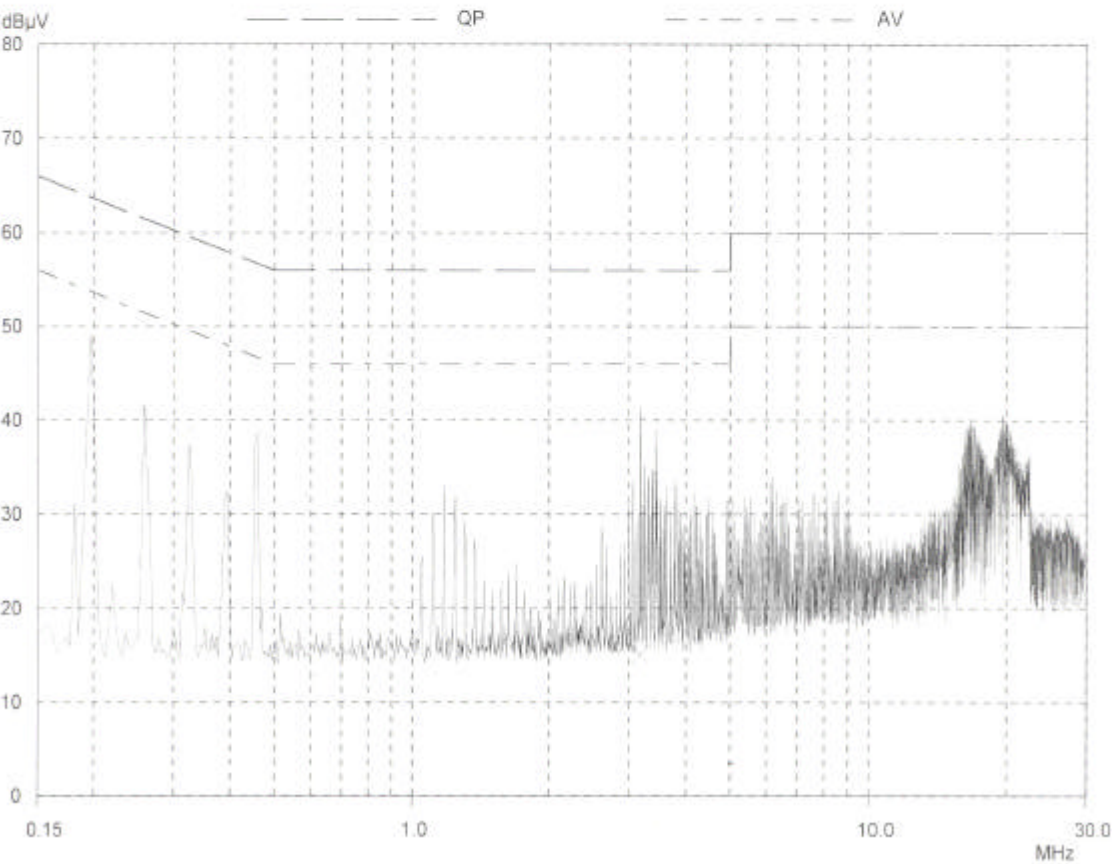


CONDUCTION EMISSION TEST

Peak Value

EUT: DVD-RW
Manuf:
Op Cond: REWRITE
Operator:
Test Spec:
Comment: L1

Final Measurement: Detector: X QP
Meas Time: 1sec
Peaks: 8
Acc Margin: 25 dB

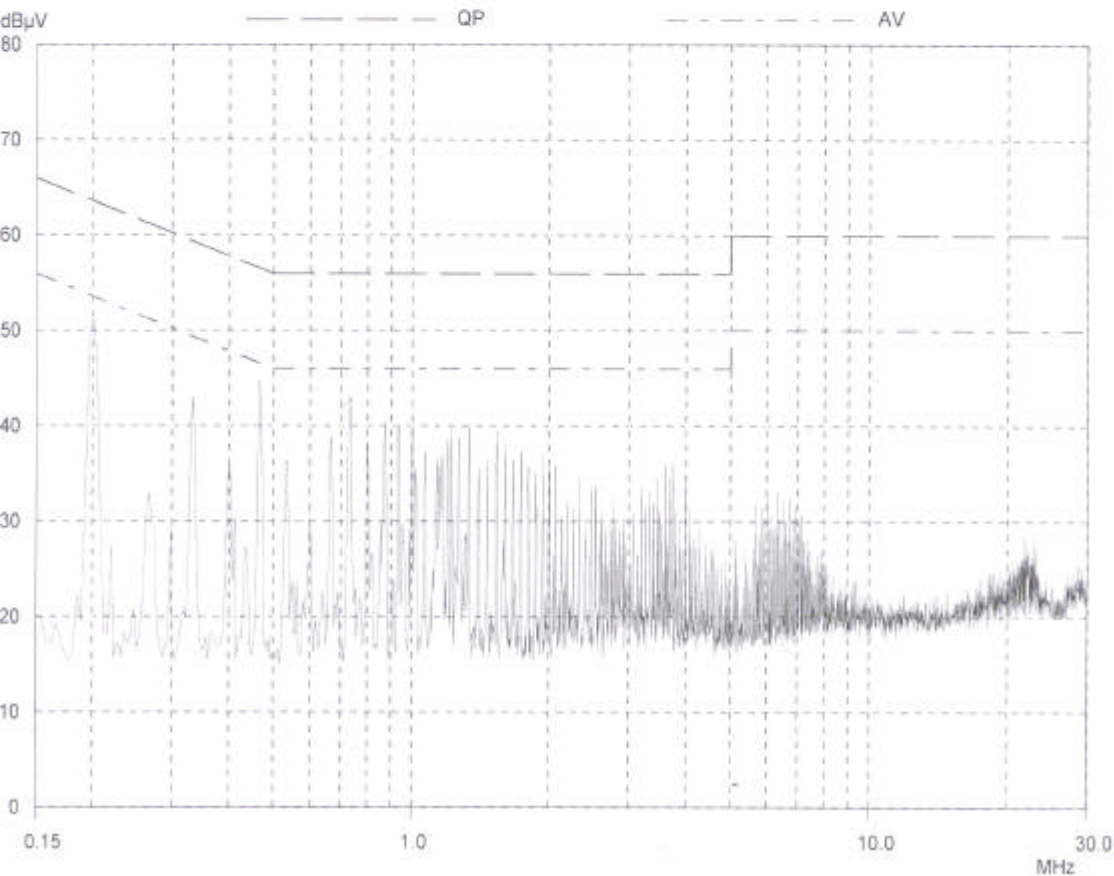


CONDUCTION EMISSION TEST

Peak Value

EUT: CD-RW
Manuf:
Op Cond: PLAY
Operator:
Test Spec:
Comment:
N
Result File: QL1-CDRW.dat : New Measurement

Final Measurement: Detector: X QP
Meas Time: 1sec
Peaks: 8
Acc Margin: 25 dB



CONDUCTION EMISSION TEST

Peak Value

EUT: CD-RW
Manuf:
Op Cond: PLAY
Operator:
Test Spec:
Comment:
L1
Result File: QL1-CDRW.dat : New Measurement
Final Measurement: Detector: X QP
Meas Time: 1sec
Peaks: 8
Acc Margin: 25 dB

