

Title Measurements of radio frequency interference from
Adapter RF3150 (STP- and S-UTP-cables)

Test object Adapter RF3150

Report no. DANAK-194403

Project no. K220843-2

Test period 1999-01-18 to 1999-03-16

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Manufacturer Olicom A/S

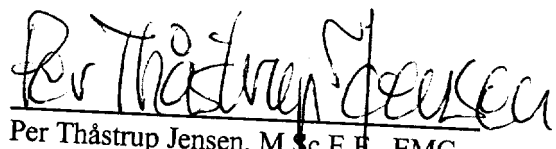
Specification EN 55022 class B
FCC Rules and Regulations part 15, subpart B, class B,
demonstrated by compliance with EN 55022:1994 class B
VCCI class B
CISPR 22 class B

Test personnel Henrik Egeberg Nielsen
Jesper Nielsen

Results The emission from the Adapter RF3150 was within the
limits of EN 55022 class B, FCC rules and regulations part
15, subpart B class B (EN55022), VCCI class B, and CISPR
22 class B when using STP- and S-UTP-cables.

Date 1999-03-24

Project manager 
Per Hansen, Facility Manager, EMC
DELTA Electronics Testing

Responsible 
Per Thastrup Jensen, M.Sc.E.E., EMC
DELTA Electronics Testing

Please note that we have not tested the equipment for any errors which may arise before, during, or after the change of date from the year 1999 to the year 2000, either in the equipment or its interaction with other products.

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1. SUMMARY OF TEST RESULTS

The results of the emission tests can be summarised as follows:

Emission tests	EN 55022 class B	FCC class B *)	VCCI class B	CISPR 22 class B
Conducted emission, AC mains	Passed	Passed	Passed	Passed
Radiated electromagnetic field	Passed	Passed	Passed	Passed

Abbreviations : Passed : The emission was below the limit.
Not done : No test was performed.
N/A : Not applicable.
Not relevant : The test was not relevant for the test object.

*) Demonstrated by compliance with EN 55022:1994 class B

The test results relate only to the specimen tested.

2. TEST SPECIMEN

Category	:	Network equipment
Manufacturer	:	Olicom A/S
Model/Type	:	Adapter RF3150
Part no.	:	770002310
Serial no.	:	144830022
Supply voltage	:	115 / 230 VAC
Operational mode	:	During the test, PC1 was transmitting data through EUT via STP- or S-UTP-cables to PC2. See <i>section 3.1</i> .

3. GENERAL TEST CONDITIONS

3.1 Test set-up

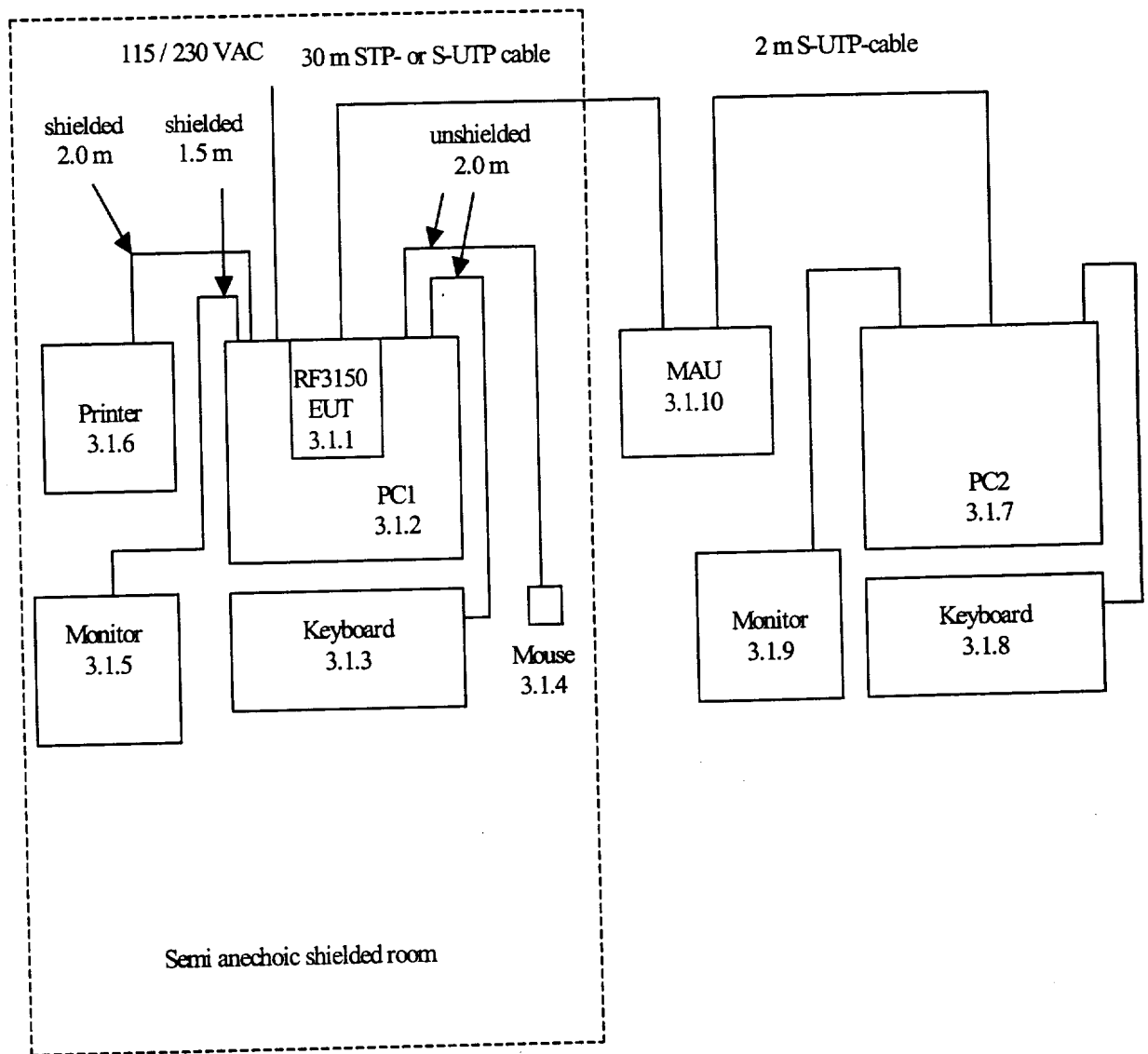


FIG. 1 Test set-up including test object and peripheral equipment.

The complete system used during the tests consisted of the following units:

3.1.1 Adapter RF3150 (EUT installed in 3.1.2)

Manufacturer : Olicom
Model/type : RF3150
Part no. : 770002310
Serial no. : 144830022

3.1.2 PC1

Manufacturer : Gateway 2000
Model/type : ATX Tower
Part no. : -
Serial no. : 5614165
FCC ID : HWYTHP5133T

3.1.3 Keyboard (PC1)

Manufacturer : Digital
Model/type : RT102
Part no. : 120117 Rev. A
Serial no. : 70540913
FCC ID : AQ6-MTN4XZ15

3.1.4 Mouse (PC1)

Manufacturer : Genius
Model/type : GM-F303
Part no. : -
Serial no. : -
FCC ID : FSU4VVGMZAS

3.1.5 Monitor (PC1)

Manufacturer : Compaq
Model/type : 460
Part no. : -
Serial no. : 32342601T003
FCC ID : BR85M-5514N

3.1.6 Printer (PC1)

Manufacturer : Hewlett Packard
Model/type : Desk Jet 890 C
Part no. : -
Serial no. : SG7 A8190QY
FCC ID : B94C4602X

3.1.7 PC2

Manufacturer	:	Compaq
Model/type	:	Prolinea 4/33
Part no.	:	-
Serial no.	:	3061
FCC ID	:	CNT75MBF5

3.1.8 Keyboard (PC2)

Manufacturer	:	Compaq
Model/type	:	KPQ-E99 AC-10
Part no.	:	-
Serial no.	:	-
FCC ID	:	EW4KPQ4813

3.1.9 Monitor (PC2)

Manufacturer	:	KFC
Model/type	:	-
Part no.	:	MA-0933
Serial no.	:	1161475
FCC ID	:	-

3.1.10 MAU Switch

Manufacturer	:	Olicom
Model/type	:	OC-3625
Part no.	:	77000001
Serial no.	:	-
FCC ID	:	-

4. TESTS AND RESULTS

4.1 Conducted emission, AC mains (EN 55022, class B)

	Requirements	
Specification	EN 50081-1:1992	
Test method	EN 55022:1994 (CISPR 22:1993), class B	
Frequency range	0.15-30 MHz	
Limit: (quasi-peak)	0.15-0.50 MHz: (decreasing lin. with the logarithm of freq.) 0.50-5 MHz: 5-30 MHz:	66-56 dB μ V 56 dB μ V 60 dB μ V
Limit: (average)	0.15-0.50 MHz: (decreasing lin. with the logarithm of freq.) 0.50-5 MHz: 5-30 MHz:	56-46 dB μ V 46 dB μ V 50 dB μ V
Test record sheets and photos		<i>Annex 2</i>

Results:

The emission was within the specified limits.

Comments:

Supply voltage was 230 VAC.
Cables used were STP- and S-UTP-cables.

4.2 Conducted emission, AC mains (FCC, class B / EN 55022, class B)

	Requirements	
Specification	FCC Rules and Regulations part 15, subpart B class B, demonstrated by compliance with EN 55022:1994, class B	
Test method	CISPR 22:1993	
Frequency range	0.15-30 MHz	
Test set-up	ANSI C63.4:1992	
Limit: (quasi-peak)	0.15-0.50 MHz: (decreasing lin. with the logarithm of freq.) 0.50-5 MHz: 5-30 MHz:	66-56 dB μ V 56 dB μ V 60 dB μ V
Limit: (average)	0.15-0.50 MHz: (decreasing lin. with the logarithm of freq.) 0.50-5 MHz: 5-30 MHz:	56-46 dB μ V 46 dB μ V 50 dB μ V
Test record sheets and photos		
Annex 3		

Results:

The emission was within the specified limits.

Comments:

Supply voltage was 115 VAC.
Cables used were STP- and S-UTP-cables.

4.3 Conducted emission, AC mains (VCCI, class B)

	Requirements	
Specification	VCCI:1989	
Test method	EN 55022:1994 (CISPR 22:1993), class B	
Frequency range	0.15-30 MHz	
Limit: (quasi-peak)	0.15-0.50 MHz: (decreasing lin. with the logarithm of freq.) 0.50-5 MHz: 5-30 MHz:	66-56 dB μ V 56 dB μ V 60 dB μ V
Limit: (average)	0.15-0.50 MHz: (decreasing lin. with the logarithm of freq.) 0.50-5 MHz: 5-30 MHz:	56-46 dB μ V 46 dB μ V 50 dB μ V
Test record sheets and photos		<i>Annex 4</i>

Results:

The emission was within the specified limits.

Comments:

Supply voltage was 230 VAC.
Cables used were STP- and S-UTP-cables.

4.4 Radiated electromagnetic field (EN 55022, class B)

	Requirements	
Specification	EN 50081-1:1992	
Test method	EN 55022:1994 (CISPR 22:1993), class B	
Measuring distance	10 m	
Frequency range	30-1000 MHz	
Limit: (quasi-peak)	30-230 MHz:	30 dB μ V/m
	230-1000 MHz:	37 dB μ V/m
Test record sheets and photos		<i>Annex 5</i>

Results:

The emission was within the specified limits.

Comments:

Supply voltage was 115 VAC.
Cables used were STP- and S-UTP-cables.

4.5 Radiated electromagnetic field (FCC, class B / EN 55022, class B)

	Requirements	
Specification	FCC Rules and Regulations part 15, subpart B, class B, demonstrated by compliance with EN 55022:1994, class B	
Test method	EN 55022:1995 (CISPR 22:1993), class B	
Test set-up	ANSI C63.4:1992	
Measuring distance	10 m	
Frequency range	30-1000 MHz	
Limit: (quasi-peak)	30-230 MHz:	30 dB μ V/m
	230-1000 MHz:	37 dB μ V/m
Test record sheets and photos		<i>Annex 6</i>

Results:

The emission was within the specified limits.

Comments:

Supply voltage was 115 VAC.
 Cables used were STP- and S-UTP-cables.

4.6 Radiated electromagnetic field (VCCI, class B)

	Requirements	
Specification	VCCI:1989	
Test method	EN 55022:1994 (CISPR 22:1993), class B	
Measuring distance	10 m	
Frequency range	30-1000 MHz	
Limit: (quasi-peak)	30-230 MHz:	30 dB μ V/m
	230-1000 MHz:	37 dB μ V/m
Test record sheets and photos		
Annex 7		

Results:

The emission was within the specified limits.

Comments:

Supply voltage was 115 VAC.
Cables used were STP- and S-UTP-cables.

ANNEX 1

List of instruments

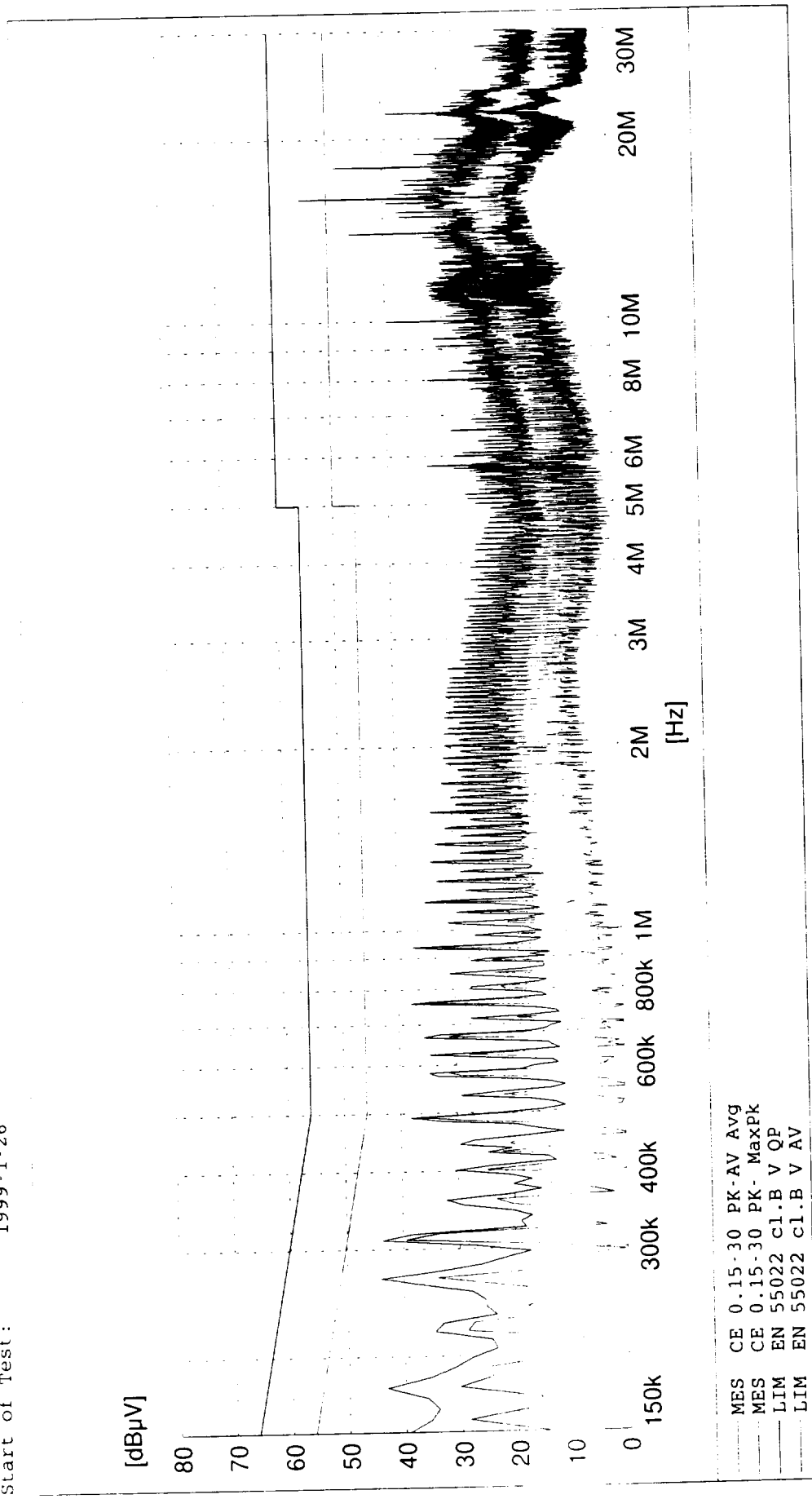
(1 page)

LIST OF INSTRUMENTS

EC NO	INSTRUMENT	MANUFACTURER	TYPE
29861	SOFTWARE Ver. 1.50c	ROHDE & SCHWARZ	ES-K1, PART:1026.6790.02
29916	AUTOMATIC EMI RECEIVER	ROHDE & SCHWARZ	ESCS-30
29797	BILOG ANTENNA, 30-1000 MHz	CHASE ELECTRICS LTD	CBL 6111A
29461	ARTIFICIAL MAINS NETWORK	ROHDE & SCHWARZ	ESH2-Z5

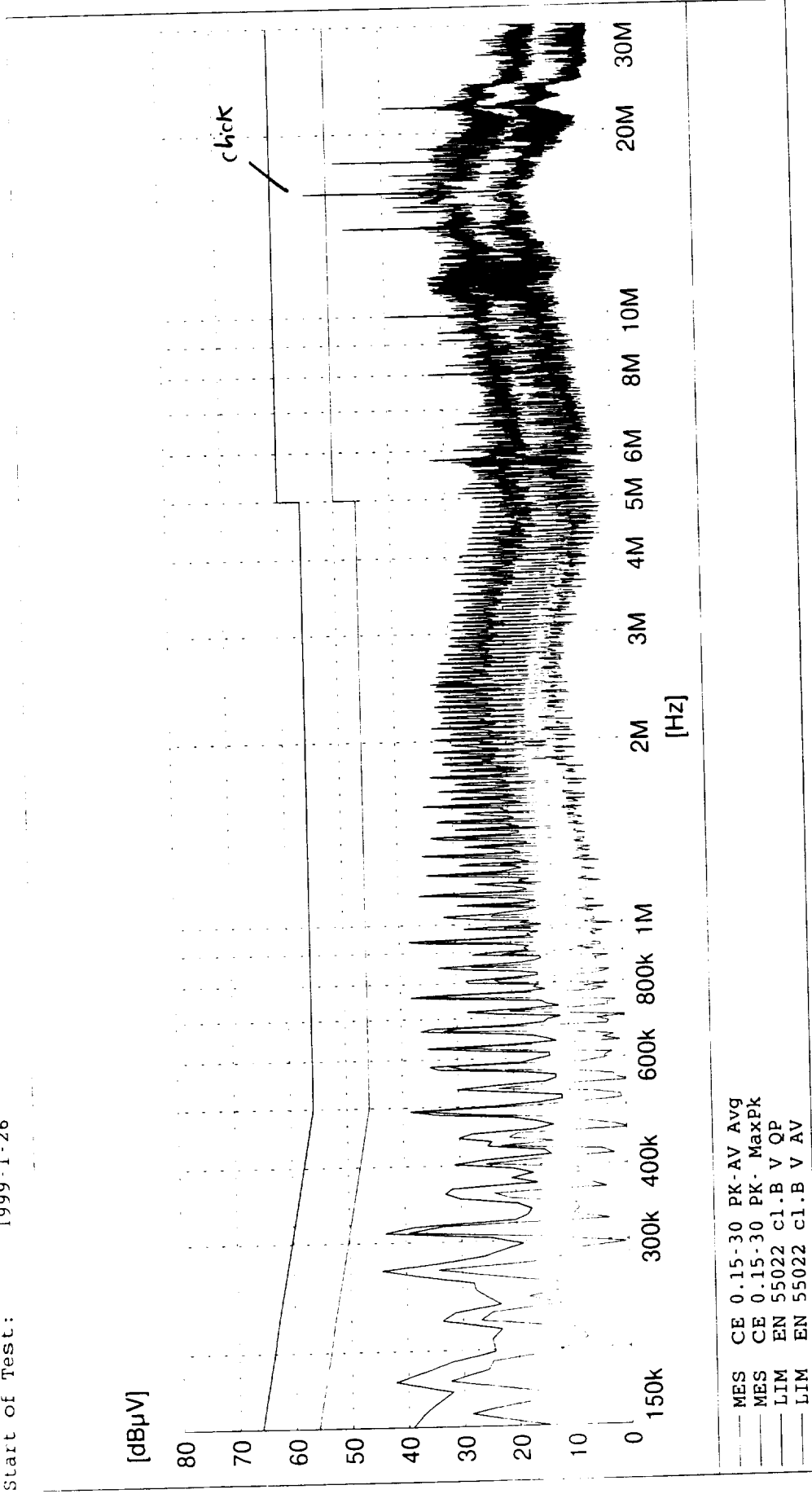
ionics testing

EUT: cf 3150
 Manufacturer: Olicom.
 Operating Condition: 230 VAC Line 1, S-UTP cable.
 Test Site: EMC-5
 Operator: JN K220843
 Test Specification: EN 55022 Class B
 Comment: Sheet 8
 Start of Test: 1999-1-26



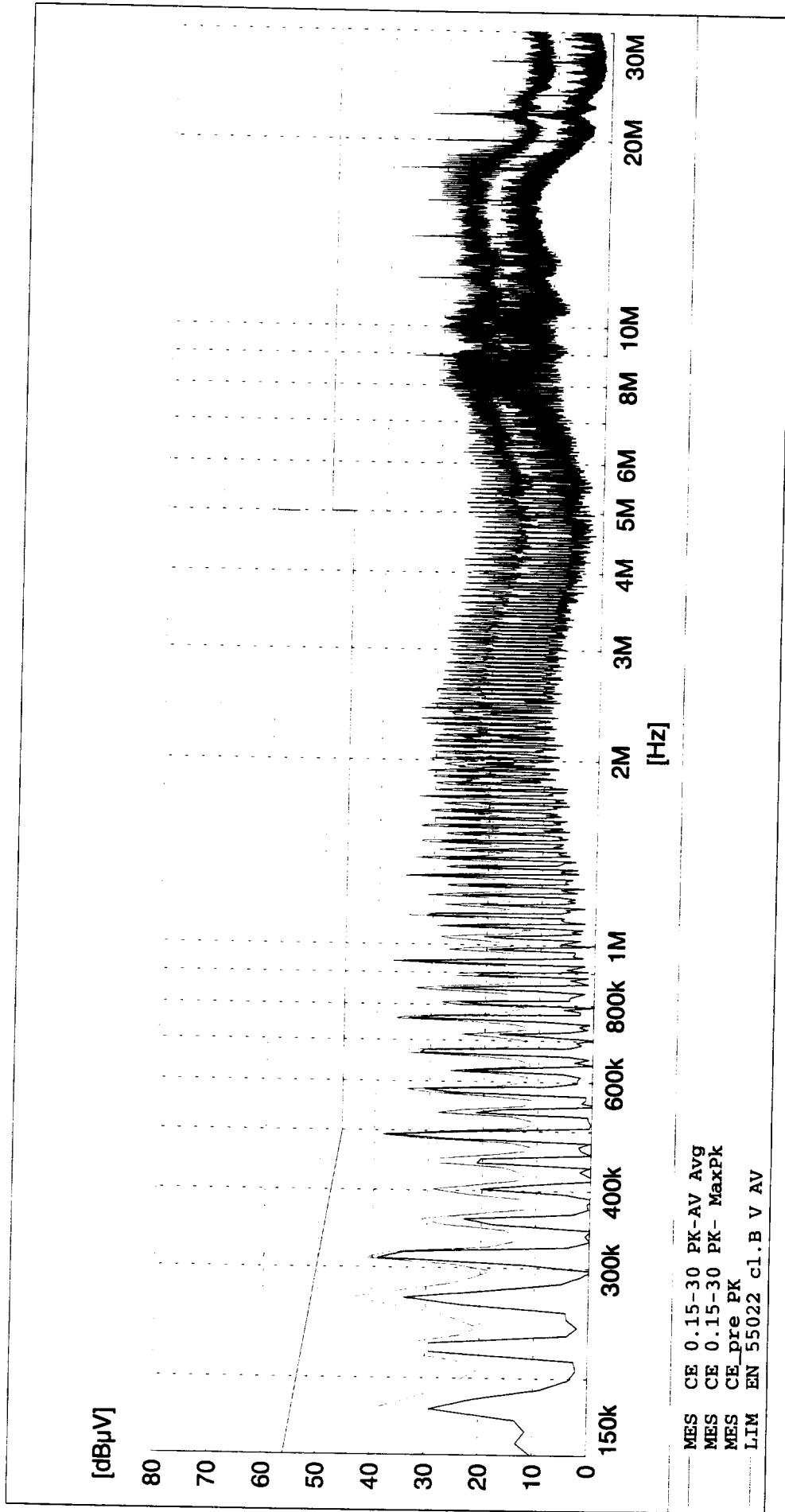
DELTA electronics testing

EUT: cf 3150
Manufacturer: Olicom.
Operating Condition: 230 VAC Neutral. Supply cable.
Test Site: EMC 5
Operator: JN K220843
Test Specification: EN 55022 class B
Comment: Sheet 7
Start of Test: 1999-1-26



DELTA Electronics Testing

EUT: RF 3150. STP cable.
Manufacturer: Olimcom A/S
Operating Condition: Line no.: Line 1. 230 Vac.
Test Site: EMC-5
Operator: HEN K220843
Test Specification: EN 55022 class B.
Comment: Sheet 9
Start of Test: 1999-03-16



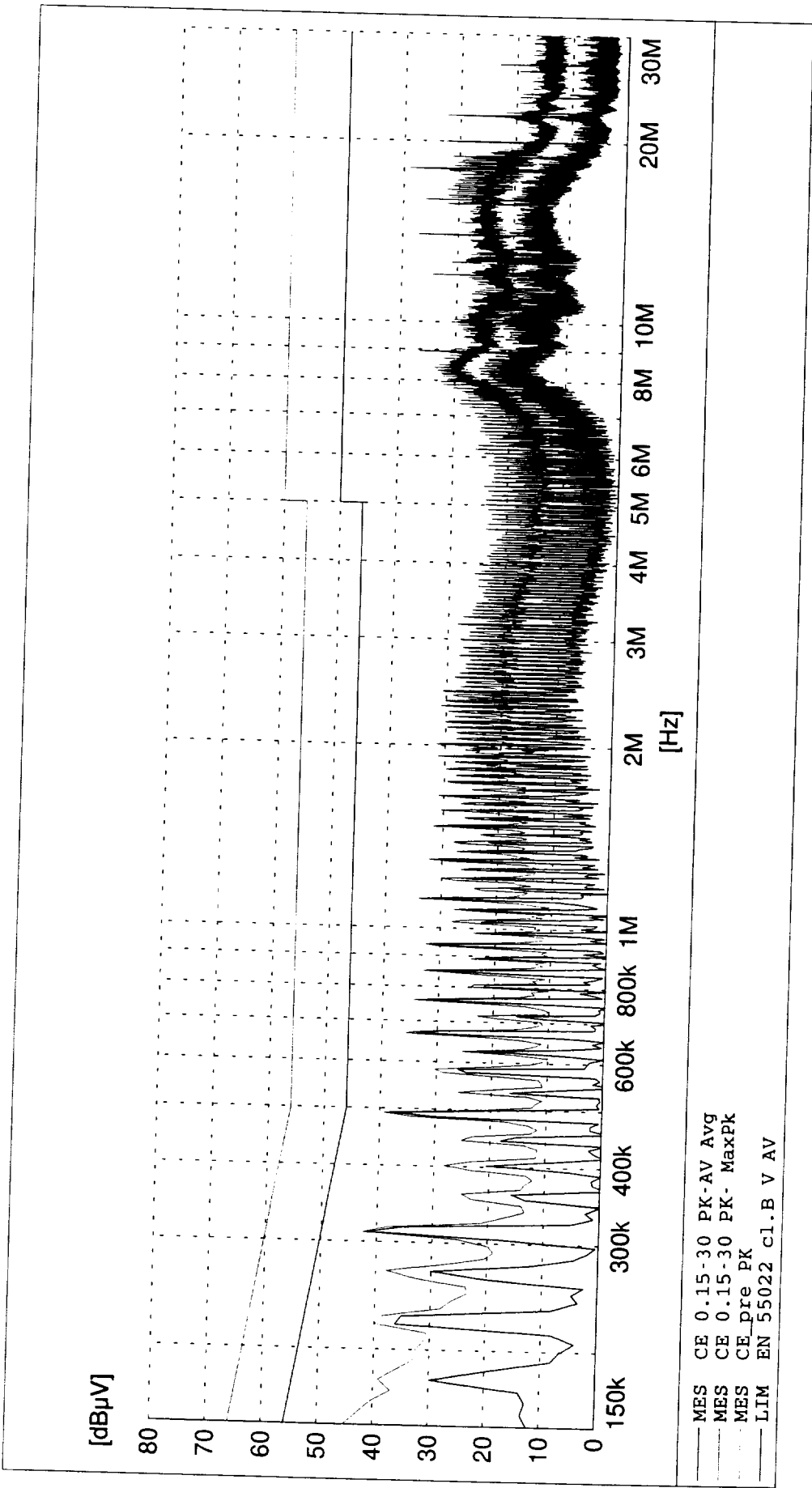
ANNEX 3

**Test record sheets and photos regarding
conducted emission, AC mains (FCC class B / EN 55022 class B)**

(7 pages)

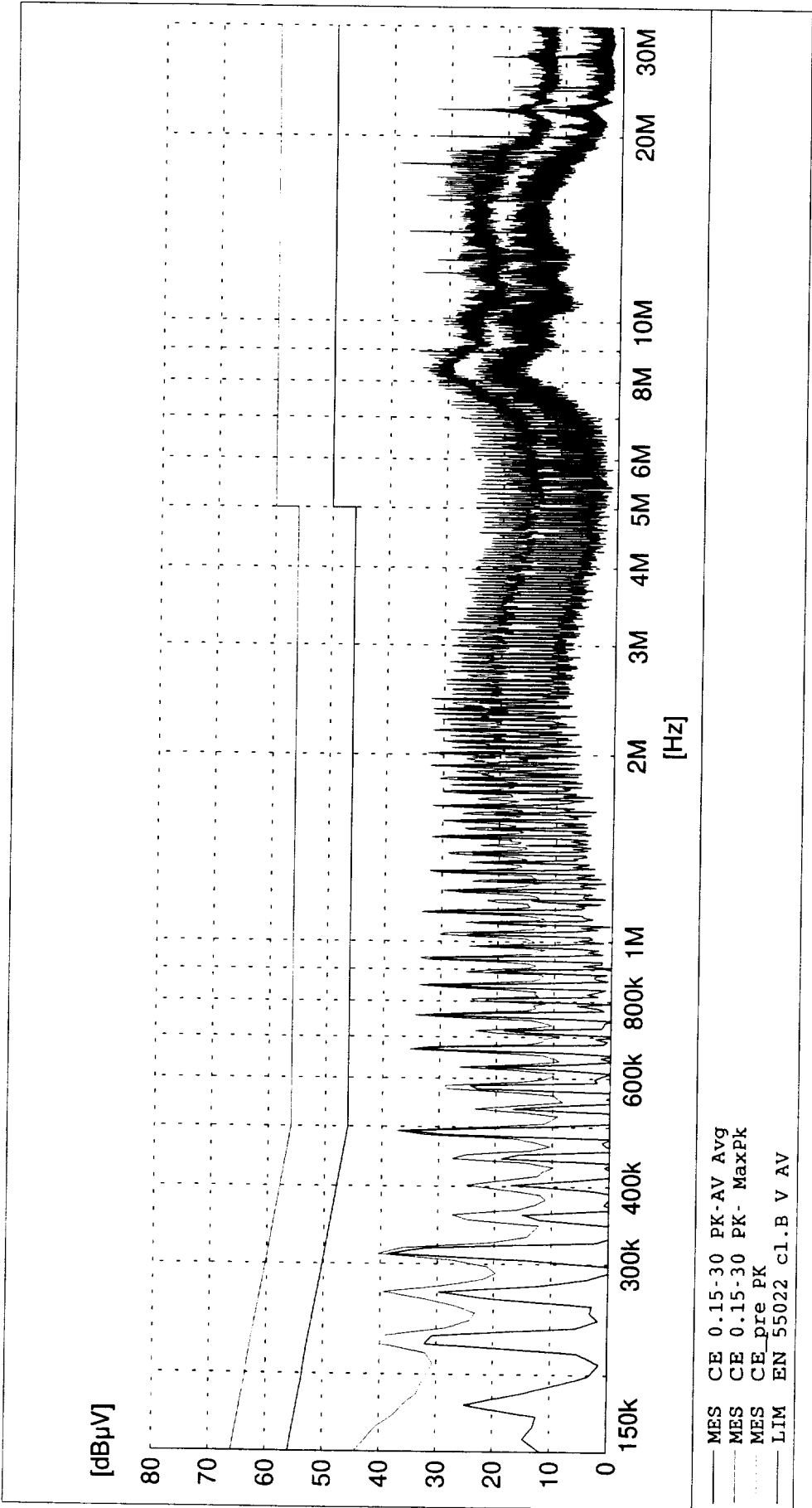
DELTA Electronics Testing

EUT: RF 3150. STP cable.
Manufacturer: Olicom A/S
Operating Condition: Line no.: Line 1. 115 Vac.
Test Site: EMC-5
Operator: HEN K220843
Test Specification: EN 55022 class B.
Comment: Sheet 8
Start of Test: 1999-03-16



DELTA Electronics Testing

EUT: RF 3150. STP cable.
Manufacturer: Olimcom A/S
Operating Condition: Line no.: Neutral. 115 Vac.
Test Site: EMC-5
Operator: HEN K220843
Test Specification: EN 55022 class B.
Comment: Sheet 7
Start of Test: 1999-03-16

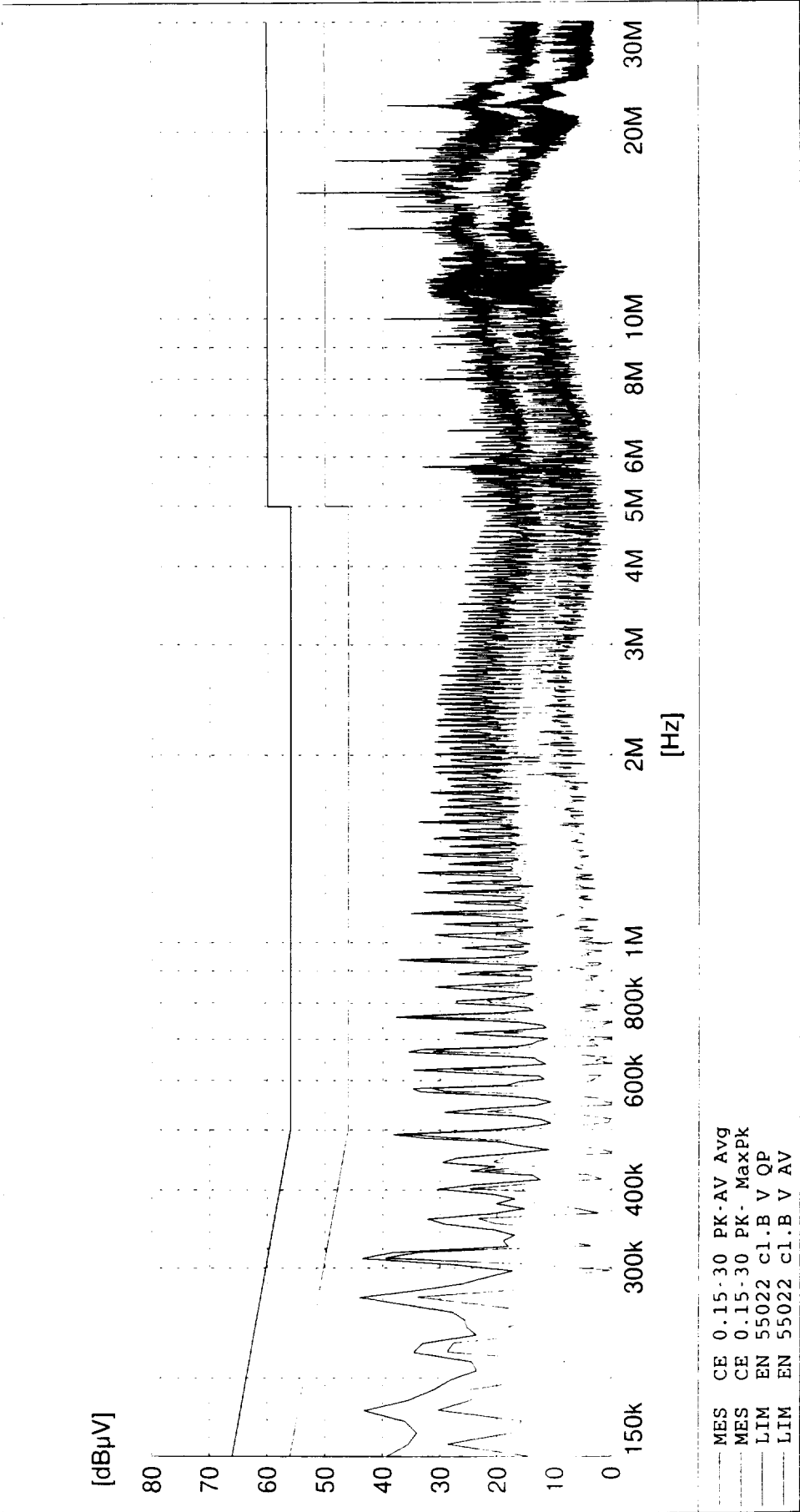


ANNEX 4

Test record sheets and photos regarding
conducted emission, AC mains (VCCI, class B)

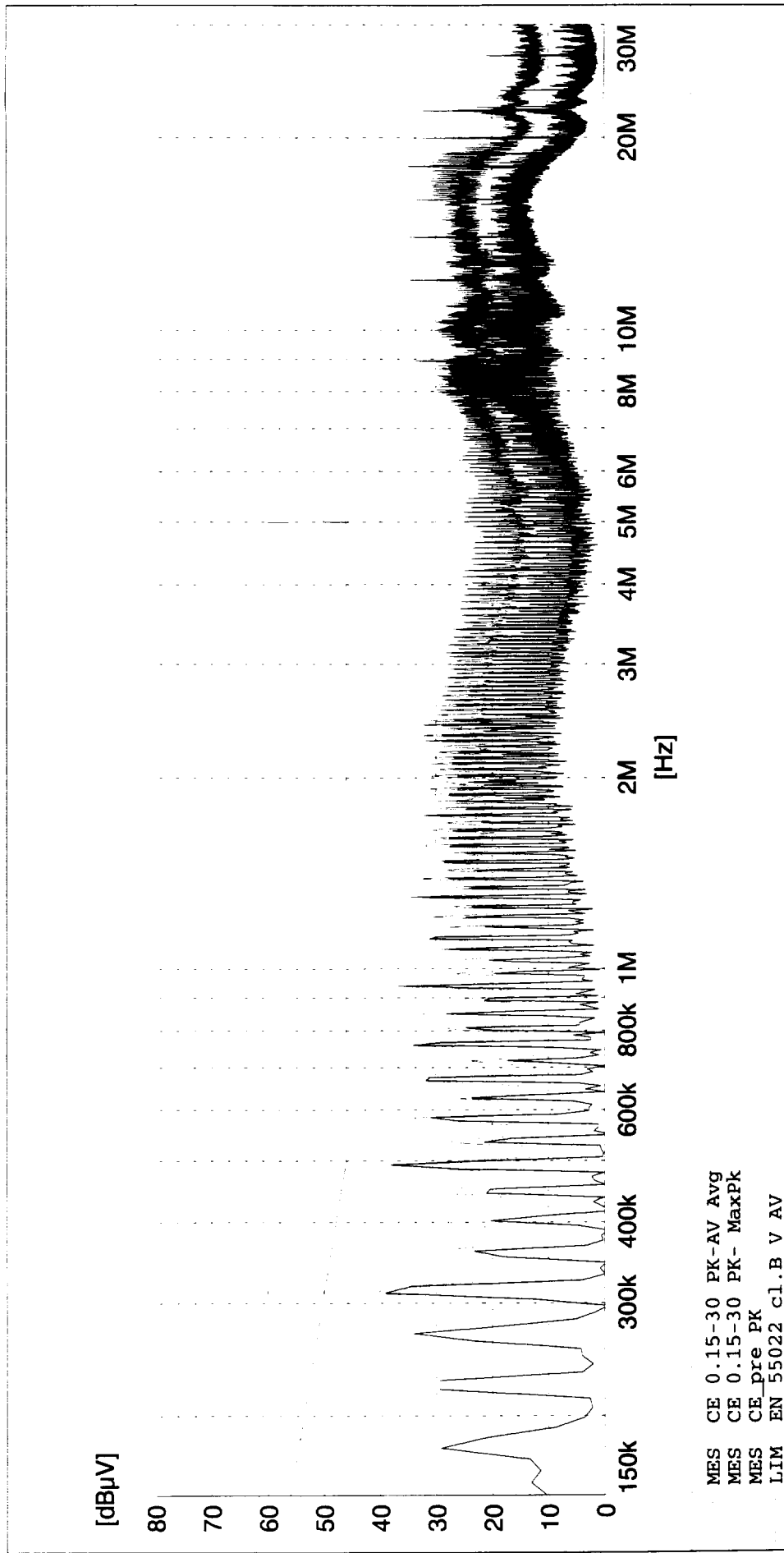
(7 pages)

EUT: cf 3150
Manufacturer: Olicom.
Operating Condition: 230 VAC Line 1. S UTP cable.
Test Site: EMC-5
Operator: JN K220843
Test Specification: EN 55022 class B
Comment: Sheet 8
Start of Test: 1999-1-26



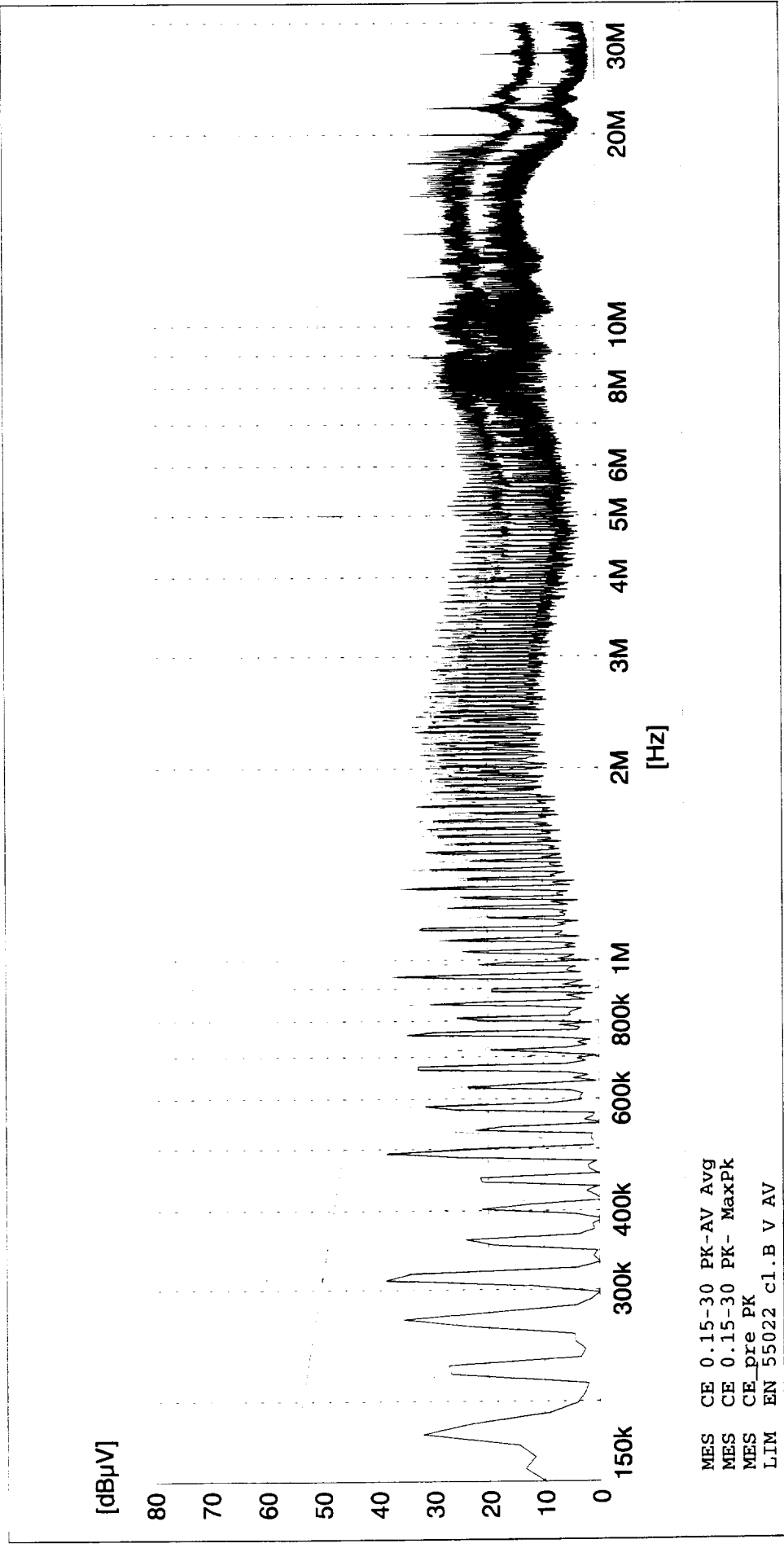
DELTA Electronics Testing

EUT: RF 3150. STP cable.
 Manufacturer: Olicom A/S
 Operating Condition: Line no.: Line 1. 230 Vac.
 Test Site: EMC-5
 Operator: HEN K220843
 Test Specification: EN 55022 class B.
 Comment: Sheet 9
 Start of Test: 1999-03-16



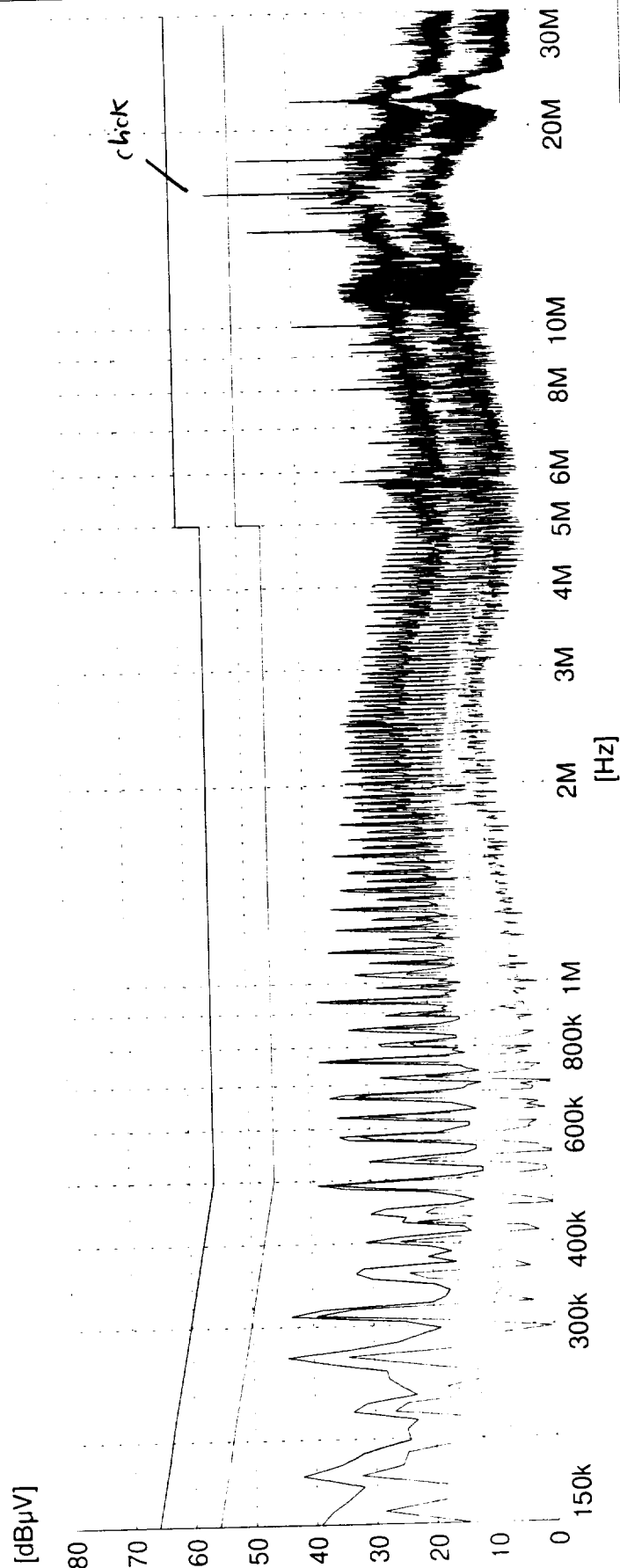
DELTA Electronics Testing

EUT: RF 3150. STP cable.
Manufacturer: Olicom A/S
Operating Condition: Line no.: Neutral. 230 Vac.
Test Site: EMC-5
Operator: HEN K220843
Test Specification: EN 55022 class B.
Comment: Sheet 10
Start of Test: 1999-03-16



DELTA electronics testing

EUT: cf 3150
 Manufacturer: Olimcom.
 Operating Condition: 230 VAC Neutral, S UTP cable.
 Test Site: EMC 5
 Operator: JN K220843
 Test Specification: EN 55022 class B
 Comment: Sheet 7
 Start of Test: 1999-1-26



— MES CE 0.15-30 PK-AV Avg
 — MES CE 0.15-30 PK- MaxPk
 — LIM EN 55022 cl.B V QP
 — LIM EN 55022 cl.B V AV

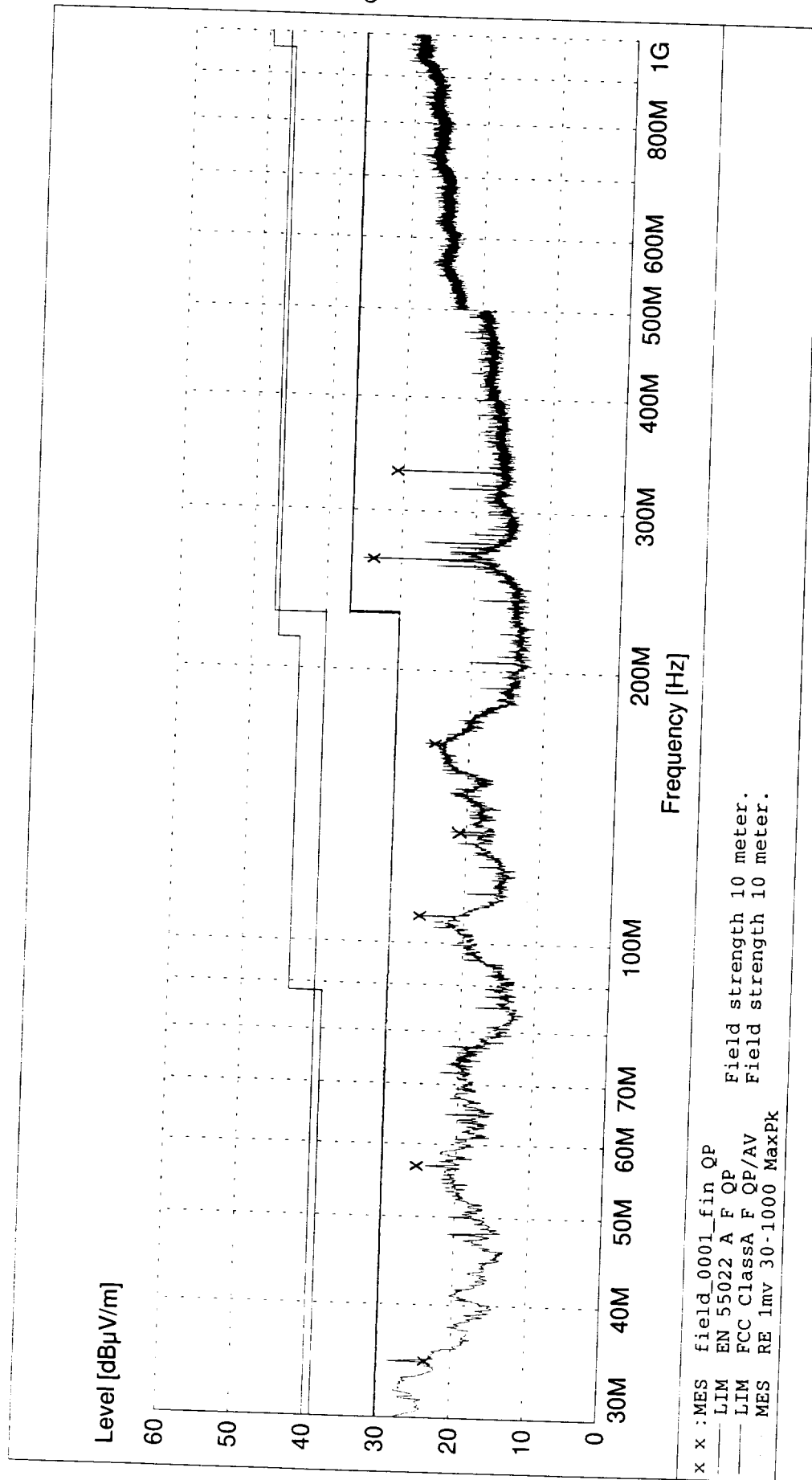
ANNEX 5

Test record sheets and photos regarding
radiated electromagnetic field (EN 55022, class B)

(8 pages)

DELTA electronics testing

EUT: CF 3150
 Manufacturer: Olimcom
 Operating Condition: 115 VAC. Ant. 1 meter vertical. S-UTP cable.
 Test Site: EMC-5
 Operator: BLA K220843
 Test Specification: EN 55022 class **B** FCC class **B**.
 Comment: Sheet 3
 Start of Test: 1999-1-18



MEASUREMENT RESULT: "field_0001_fin_QP"

18-01-99 19:06

Frequency MHz	Level dBuV/m	Transd dB	Limit dBuV/m	Margin dB	Height cm	Azimuth deg	Polarisation
132.630000	21.40	11.6	40.0	18.5	352.0	4.00	HORIZONTAL

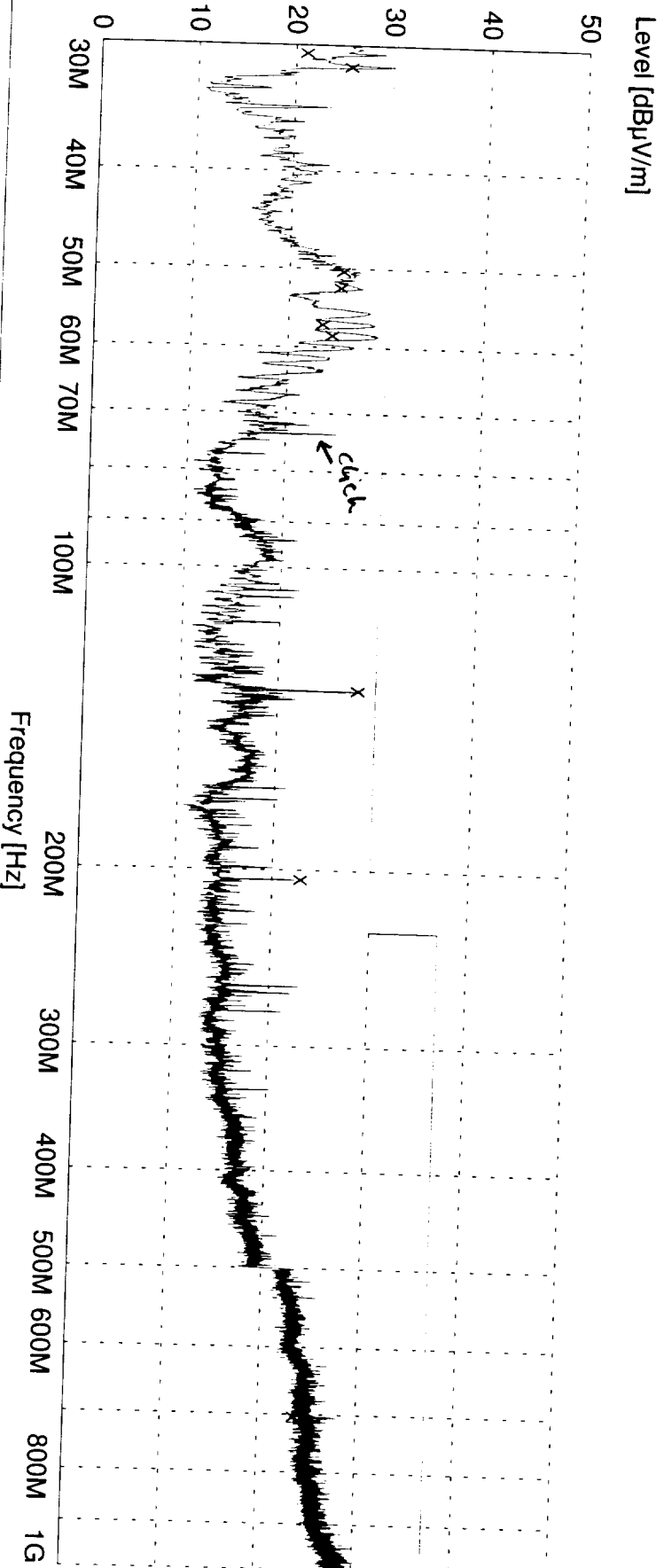
MEASUREMENT RESULT: "field_0001_fin_QP"

18-01-99 18:48

Frequency MHz	Level dBuV/m	Transd dB	Limit dBuV/m	Margin dB	Height cm	Azimuth deg	Polarisation
34.620000	23.90	15.7	40.0	16.0	111.0	8.00	VERTICAL
56.720000	25.70	6.0	40.0	14.2	294.0	308.00	VERTICAL
107.010000	26.40	10.8	40.0	13.5	100.0	33.00	VERTICAL
165.790000	25.00	9.7	40.0	14.9	112.0	321.00	VERTICAL
265.260000	34.10	13.4	47.0	12.8	100.0	25.00	VERTICAL
331.580000	31.20	14.8	47.0	15.7	101.0	146.00	VERTICAL

DELTA Electronics Testing

EUT: RF 3150, STP cable.
 Manufacturer: Olimcom A/S
 Operating Condition: ant. 1 m vertical. 115 Vac.
 Test Site: EMC-5
 Operator: HEN K220843
 Test Specification: EN 55022 class B.
 Comment: Sheet 5
 Start of Test: 1999-03-16



* : MES field_0001_fin QP
 MES RE 1mV 30-1000 MaxPK
 LIM EN 55022 cl.B F QP

MEASUREMENT RESULT: "field_0001_fin QP"

18-01-99 18:48

Frequency MHz	Level dBuV/m	Transd dB	Limit dBuV/m	Margin dB	Height cm	Azimuth deg	Polarisation
34.620000	23.90	15.7	40.0	16.0	111.0	8.00	VERTICAL
56.720000	25.70	6.0	40.0	14.2	294.0	308.00	VERTICAL
107.010000	26.40	10.8	40.0	13.5	100.0	33.00	VERTICAL
165.790000	25.00	9.7	40.0	14.9	112.0	321.00	VERTICAL
265.260000	34.10	13.4	47.0	12.8	100.0	25.00	VERTICAL
331.580000	31.20	14.8	47.0	15.7	101.0	146.00	VERTICAL

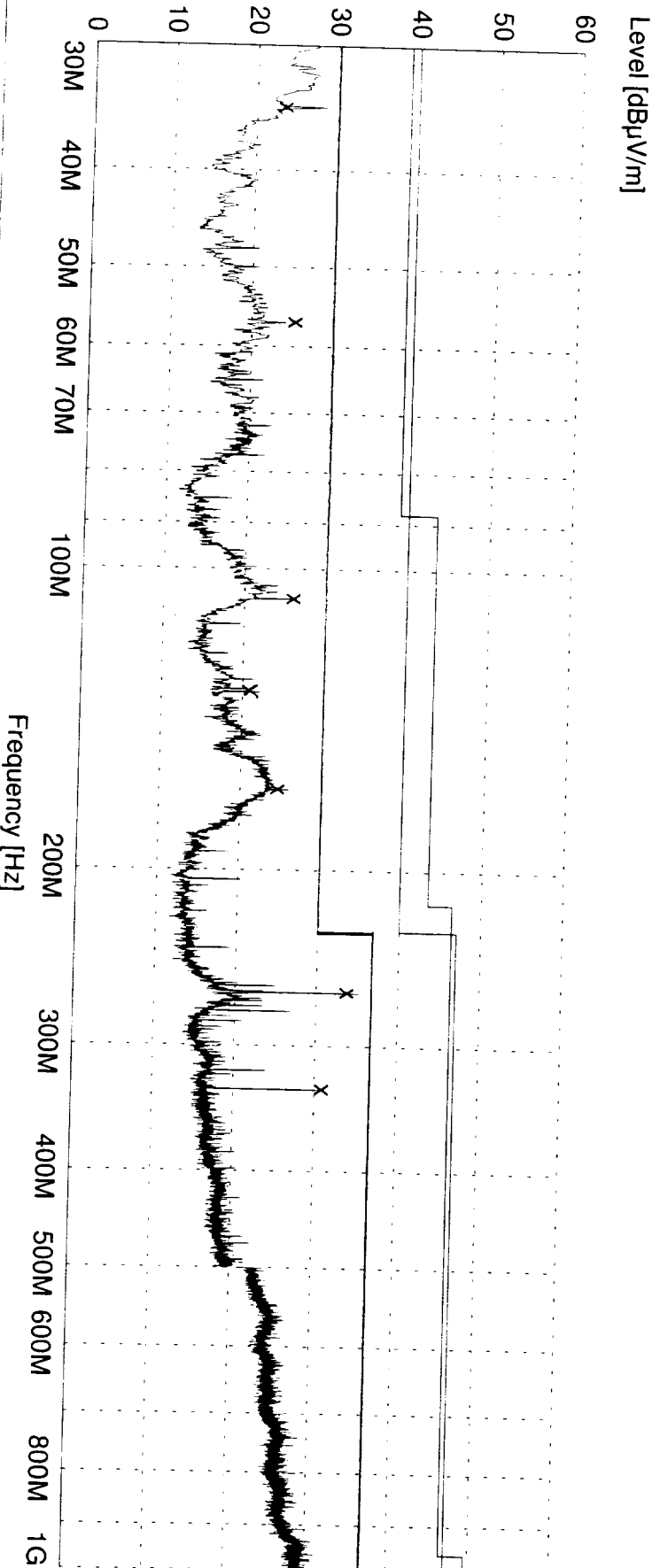
MEASUREMENT RESULT: "field_0001_fin_QP"

18-01-99 19:06

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarisation
132.630000	21.40	11.6	40.0	18.5	352.0	4.00	HORIZONTAL

DELTA electronics testing

EUT: CF 3150
Manufacturer: Olicom
Operating Condition: 115 VAC. Ant. 1 meter vertical. S-UTP cable.
Test Site: EMC-5
Operator: Bla K220843
Test Specification: EN 55022 class B FCC class B.
Comment: Sheet 3
Start of Test: 1999-1-18



x x : MES field_0001_fin QP
LIM EN 55022 A F QP
LIM FCC ClassA F QP/AV
MES RE 1mV 30-1000 MaxPk

Field strength 10 meter.
Field strength 10 meter.

ANNEX 7

Test record sheets and photos regarding
radiated electromagnetic field (VCCI, class B)

(8 pages)

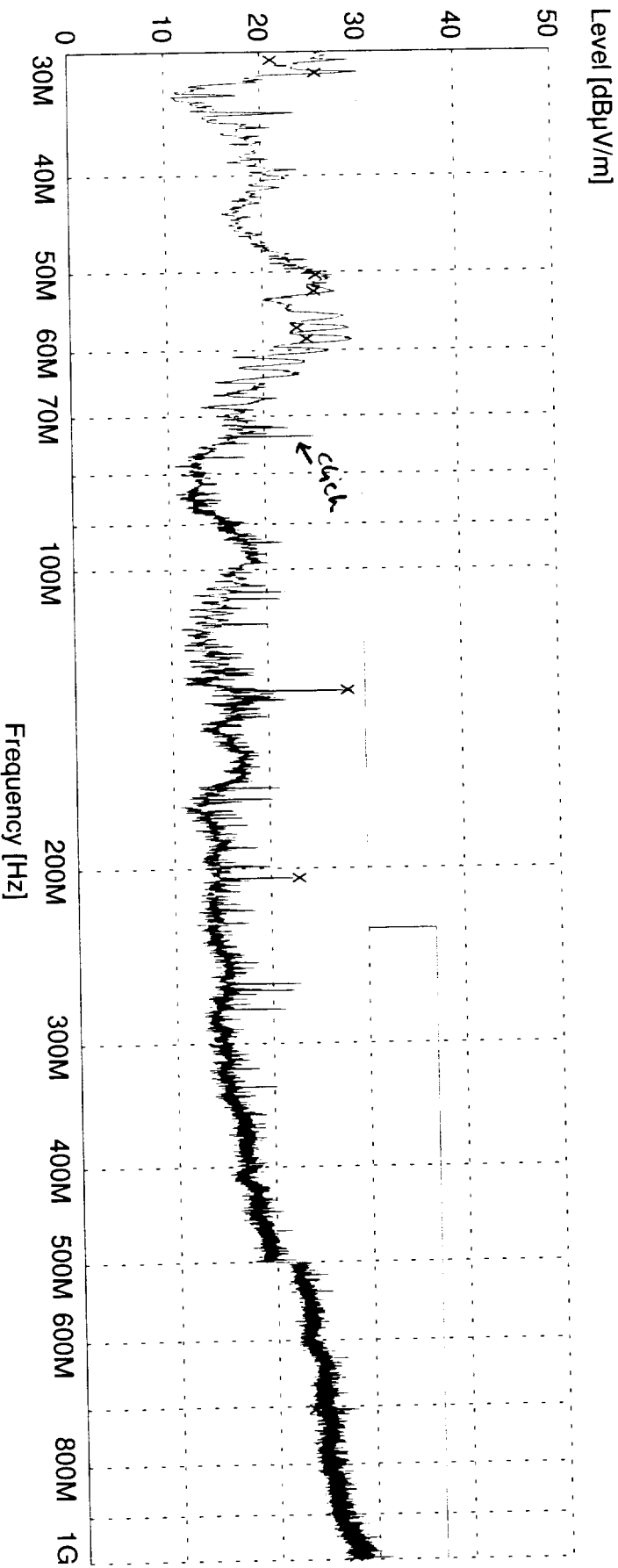
MEASUREMENT RESULT: "field_0001_fin qp"

16-03-99 13:19

Frequency MHz	Level dBuV/m	Transd dB	Limit dBuV/m	Margin dB	Height cm	Azimuth deg	Polarisation
30.600000	21.40	4.8	30.0	8.5	150.0	28.00	VERTICAL
31.570000	26.00	5.5	30.0	3.9	128.0	4.00	VERTICAL
50.400000	25.80	10.0	30.0	4.1	101.0	117.00	VERTICAL
52.400000	25.60	10.0	30.0	4.3	122.0	24.00	VERTICAL
57.000000	23.80	10.0	30.0	6.1	257.0	18.00	VERTICAL
58.500000	24.80	10.0	30.0	5.1	290.0	344.00	VERTICAL
132.630000	28.50	7.8	30.0	1.4	100.0	116.00	VERTICAL
204.600000	23.20	10.5	30.0	6.7	352.0	161.00	HORIZONTAL
704.000000	24.00	22.1	37.0	12.9	400.0	161.00	VERTICAL
994.700000	27.80	25.7	37.0	9.1	111.0	354.00	VERTICAL

DELTA Electronics Testing

EUT: RF 3150. STP cable.
 Manufacturer: Olimcom A/S
 Operating Condition: ant. 1 m vertical. 115 Vac.
 Test Site: EMC-5
 Operator: HEN K220843
 Test Specification: EN 55022 class B.
 Comment: Sheet 5
 Start of Test: 1999-03-16



x x MES field_0001_fin QP
 MES RE 1mV 30-1000 MaxPk
 LIM EN 55022 cl.B F QP

MEASUREMENT RESULT: "field_0001_fin_QP"

18-01-99 18:48

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarisation
34.620000	23.90	15.7	40.0	16.0	111.0	8.00	VERTICAL
56.720000	25.70	6.0	40.0	14.2	294.0	308.00	VERTICAL
107.010000	26.40	10.8	40.0	13.5	100.0	33.00	VERTICAL
165.790000	25.00	9.7	40.0	14.9	112.0	321.00	VERTICAL
265.260000	34.10	13.4	47.0	12.8	100.0	25.00	VERTICAL
331.580000	31.20	14.8	47.0	15.7	101.0	146.00	VERTICAL

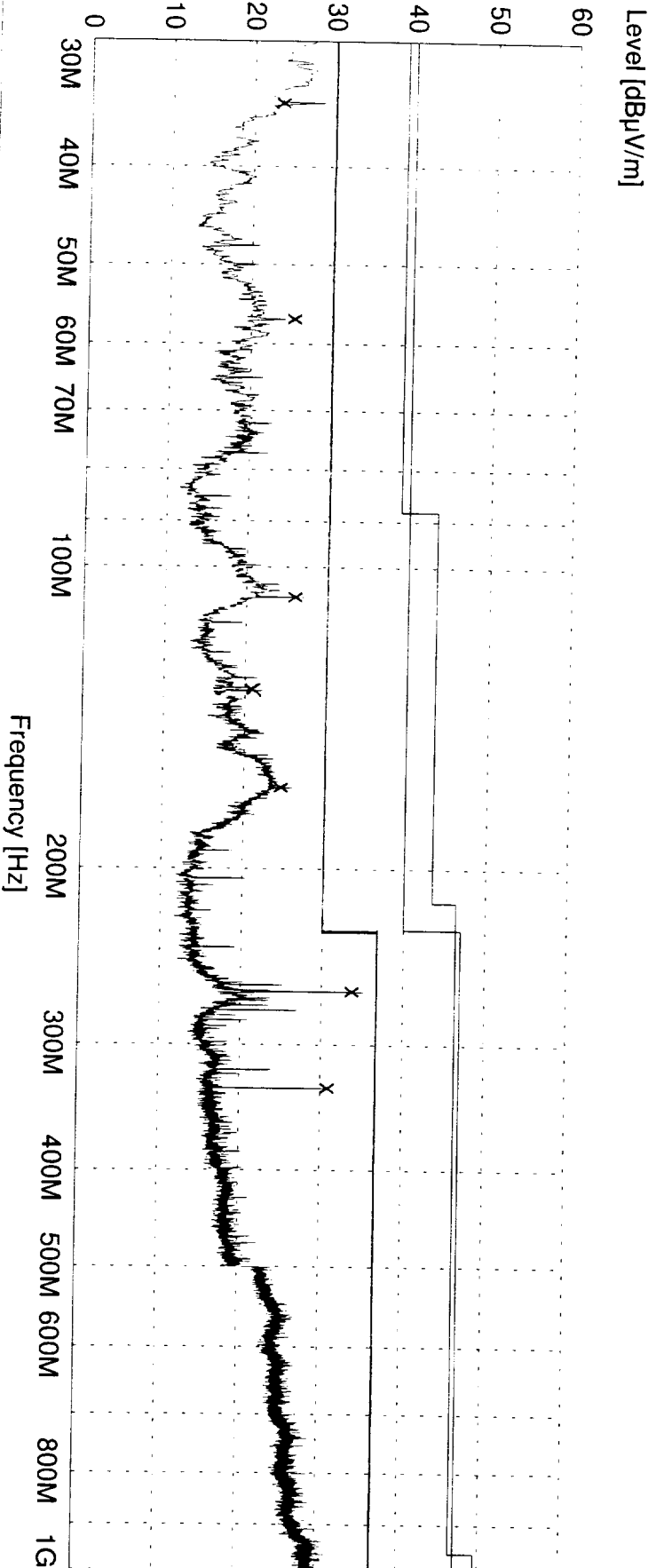
MEASUREMENT RESULT: "field_0001_fin_QP"

18-01-99 19:06

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarisation
132.630000	21.40	11.6	40.0	18.5	352.0	4.00	HORIZONTAL

DELTA electronics testing

EUT: CF 3150
 Manufacturer: Olimcom
 Operating Condition: 115 VAC. Ant. 1 meter vertical. S-UTP cable.
 Test Site: EMC-5
 Operator: Bla K220843
 Test Specification: EN 55022 class **B** FCC class **B**.
 Comment: Sheet 3
 Start of Test: 1999-1-18



x x :MES field_0001_fin QP
 LIM EN 55022 A F QP Field strength 10 meter.
 LIM FCC ClassA F QP/AV Field strength 10 meter.
 MES RE 1mv 30-1000 MaxPk

ANNEX 6

Test record sheets and photos regarding
radiated electromagnetic field (FCC, class B / EN 55022, class B)

(8 pages)

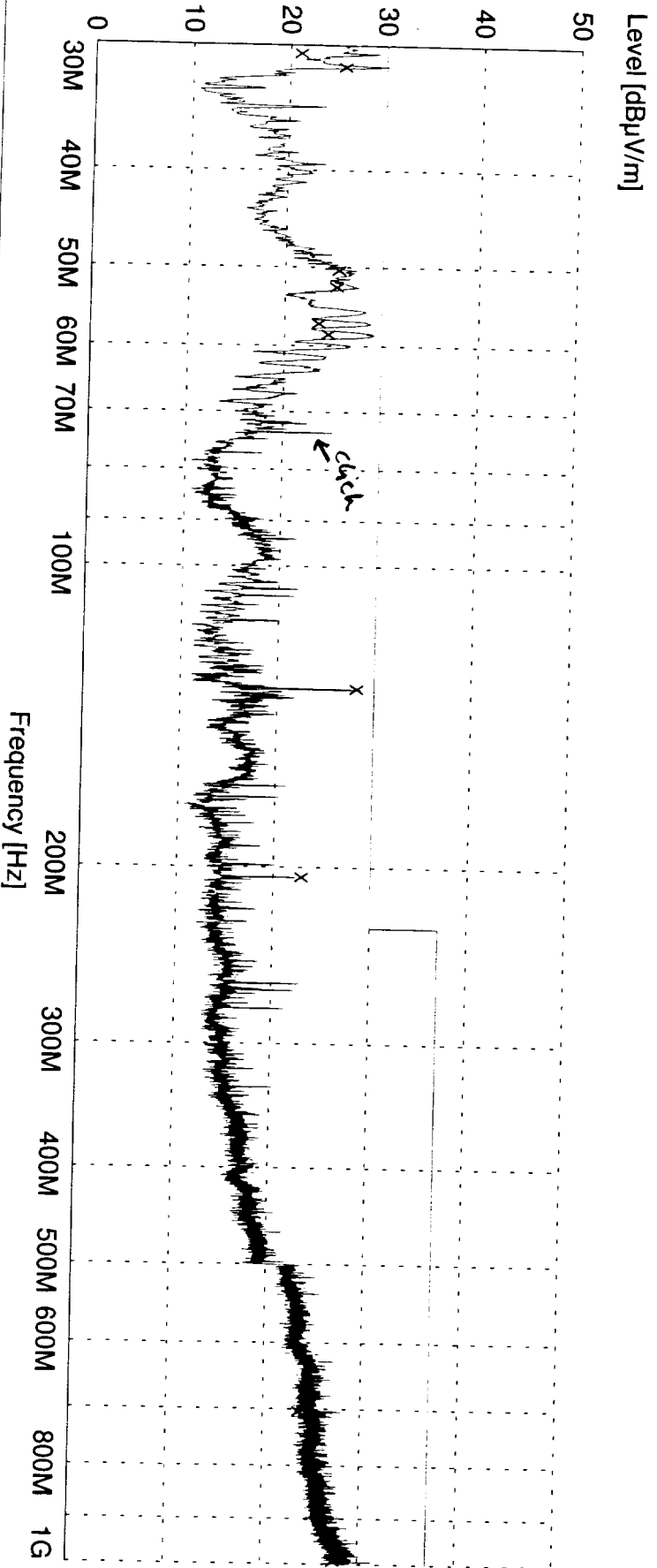
MEASUREMENT RESULT: "field_0001_fin qp"

16-03-99 13:19

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarisation
30.600000	21.40	4.8	30.0	8.5	150.0	28.00	VERTICAL
31.570000	26.00	5.5	30.0	3.9	128.0	4.00	VERTICAL
50.400000	25.80	10.0	30.0	4.1	101.0	117.00	VERTICAL
52.400000	25.60	10.0	30.0	4.3	122.0	111.00	VERTICAL
57.000000	23.80	10.0	30.0	6.1	257.0	24.00	VERTICAL
58.500000	24.80	10.0	30.0	5.1	290.0	18.00	VERTICAL
132.630000	28.50	7.8	30.0	1.4	100.0	344.00	VERTICAL
204.600000	23.20	10.5	30.0	6.7	352.0	116.00	HORIZONTAL
704.000000	24.00	22.1	37.0	12.9	400.0	161.00	VERTICAL
994.700000	27.80	25.7	37.0	9.1	111.0	354.00	VERTICAL

DELTA Electronics Testing

EUT: RF 3150. STP cable.
 Manufacturer: Olicom A/S
 Operating Condition: ant. 1 m vertical. 115 Vac.
 Test Site: EMC-5
 Operator: HEN K220843
 Test Specification: EN 55022 class B.
 Comment: Sheet 5
 Start of Test: 1999-03-16



x x : MES field_0001_fin QP
 MES RE 1mv 30-1000 MaxPk
 LIM EN 55022 cl.B F QP

MEASUREMENT RESULT: "field_0001_fin_QP"

16-03-99 13:19

Frequency MHz	Level dBuV/m	Transd dB	Limit dBuV/m	Margin dB	Height cm	Azimuth deg	Polarisation
30.600000	21.40	4.8	30.0	8.5	150.0	28.00	VERTICAL
31.570000	26.00	5.5	30.0	3.9	128.0	4.00	VERTICAL
50.400000	25.80	10.0	30.0	4.1	101.0	117.00	VERTICAL
52.400000	25.60	10.0	30.0	4.3	122.0	111.00	VERTICAL
57.000000	23.80	10.0	30.0	6.1	257.0	24.00	VERTICAL
58.500000	24.80	10.0	30.0	5.1	290.0	18.00	VERTICAL
132.630000	28.50	7.8	30.0	1.4	100.0	344.00	VERTICAL
204.600000	23.20	10.5	30.0	6.7	352.0	116.00	HORIZONTAL
704.000000	24.00	22.1	37.0	12.9	400.0	161.00	VERTICAL
994.700000	27.80	25.7	37.0	9.1	111.0	354.00	VERTICAL

Exhibit C Hardware description and Block Diagram

Olicom RF3150 is a PCI 16/4 Mbps Token-Ring Network Adapter. Below is a block diagram and descriptions of the different blocks.

Status LED's

RF3150 PCI TRN Adapter is equipped with two status LED's.

One YELLOW LED indicating 4 Mbps media speed

One GREEN LED indicating when the adapter is inserted on the token ring

Optional 128/256 KByte Flash Remote Program Load

RF3150 PCI TRN Adapter provides remote program load option that enables the PC to boot from the network. (the RPL prom is option)

User benefits: The adapter can be installed in a diskless PC and booted from the network.

Power Management

The RF3150 PCI TRN Adapter supports power management that places the adapter in power down mode when ever possible. In power down mode the adapter is able to receive wake-up frames from the network. When a wake up frame (Magic Packet TM or 'Virtually Connected' frame) is received the adapter can be switched back into normal power on mode.

Bullseye Chip

Bullseye is an ASIC designed by Olicom. It is a Token-Ring Media Access Controller with PCI interface.

TI380C60

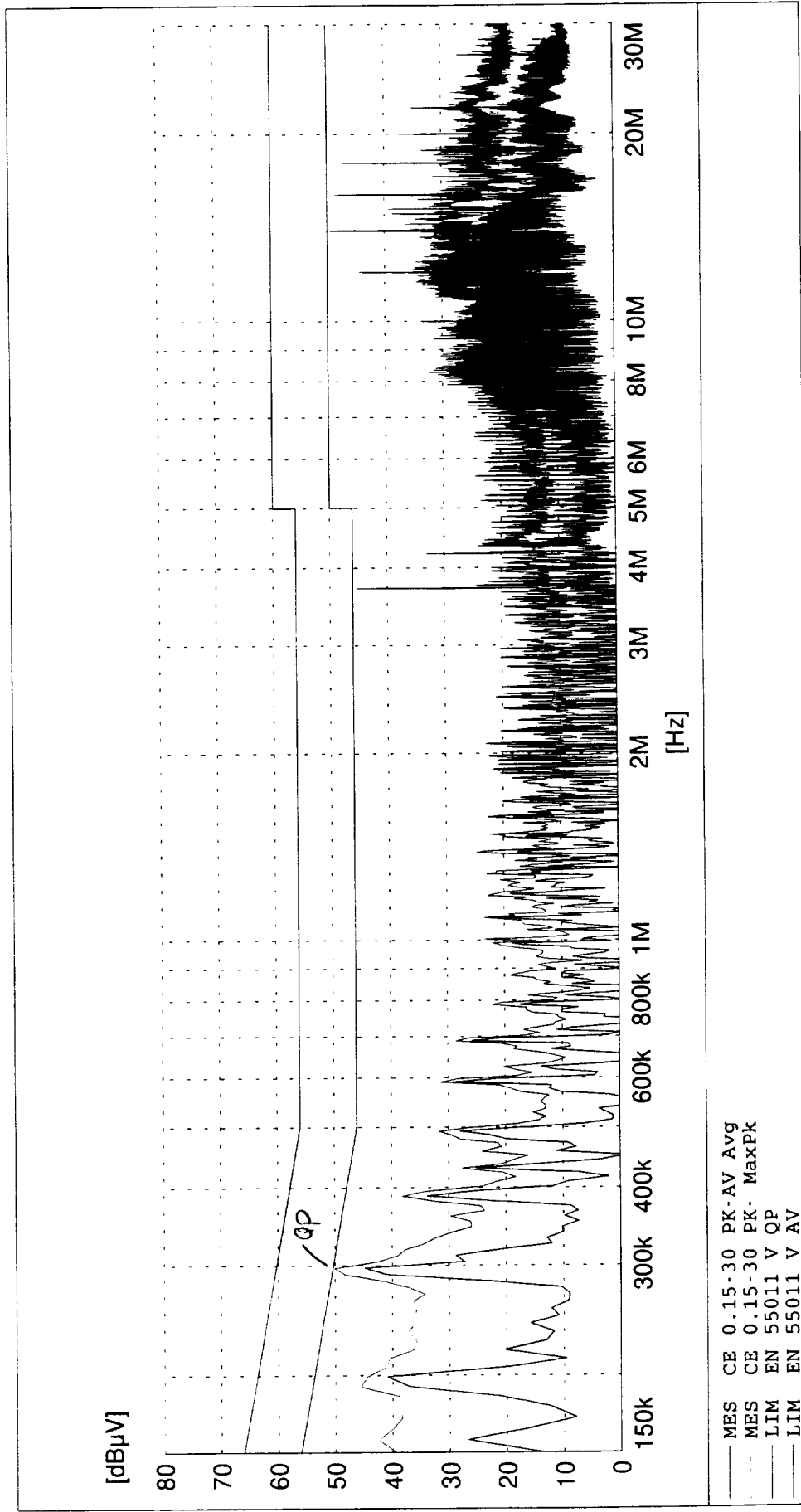
TI380C60 is a wave shaping chip for Token-Ring.

Token-Ring Interface.

Contains analog filter/magnetics.

DELTA electronics testing

EUT: CF 3150
 Manufacturer: Olimcom
 Operating Condition: 115 VAC. Line : Line 1. S-UTP cable.
 Test Site: EMC-5
 Operator: BLA K220843
 Test Specification: EN 55022 class A, FCC class A.
 Comment: Sheet 6
 Start of Test: 1999-1-18



DELTA electronics testing

EUT: CF 3150
 Manufacturer: Olimcom
 Operating Condition: 115 VAC. Line : Neutral. S-UTP cable.
 Test Site: EMC-5
 Operator: BLA K220843
 Test Specification: EN 55022 class A, FCC class A.
 Comment: Sheet 5
 Start of Test: 1999-1-18

