

Radiated emission according to:

to EN55022 class B

EUT: Scenic Mobile 750 13" 300MHz PII CDRM
Manufacturer: Siemens
Operating Condition: scr. "H" 1024*768, HD/CD-Test, OHD via cable
Test Site: SNI-Augsburg (Semi-anechoic chamber 10m)
Operator: M. Heuser
Configuration: fully conf.; AC-Adapter extern; FDD-Module intern
Comment: MCM1705; sample #2
Start of Test: 17.02.99 / 16:28:05

SCAN TABLE: "10m/30-1000"

Short Description: 10m Field Strength
Unit: dBuV/m

Detector: Mode:

Curve 1: MaxPeak ClearWrite

Subrange 1:

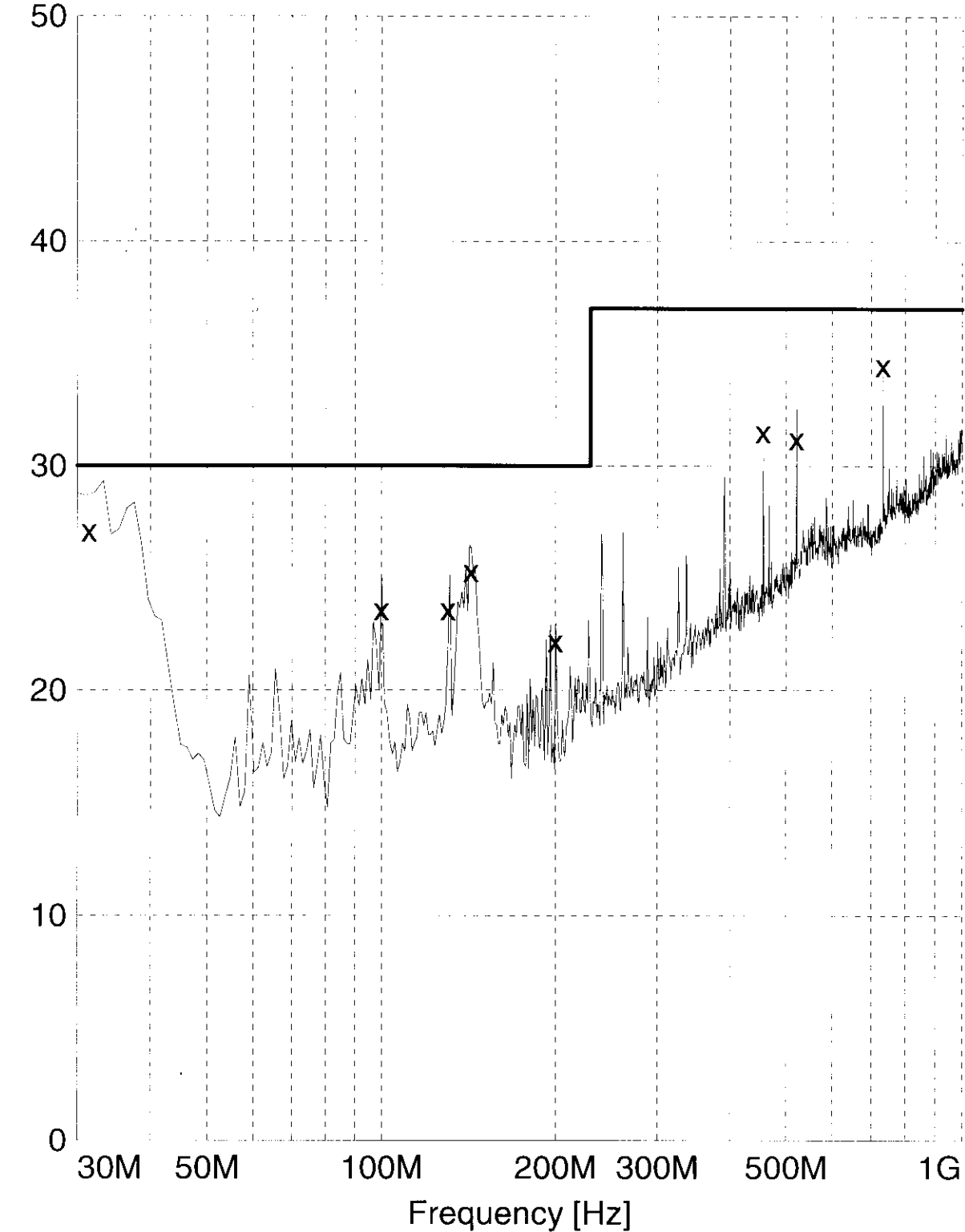
Start Frequency:	30.0 MHz	Step Size:	30.0 kHz
Stop Frequency:	1.0 GHz		
Measure Time:	10.0 ms		
IF Bandwidth:	120 kHz		

Receiver:	ESXI	Transducer:	CBL6112 cal. 9/95
Signal Path:	2DC-CP1X1	System Transducer:	RFin2-CP1/X1
Meas. Mode:	Lin	Add. Transd. 1:	cable30-1000
Tracking Gen.:	Off	Add. Transd. 2:	None
Input:	2DC	Add. Transd. 3:	None

Preamplifier:	10 dB	Demodulation:	AM
RF Att.:	Coupled	Volume:	70 %
Ref. Level:	-60.0 dBm	Squelch:	--
Min. RF Att.:	0 dB	Option:	None
IF Att.:	--		
Autorange:	On		

Curve 1:	On	Repetition:	Single
		Stop Mark:	Off
		Stop Message:	Off
		Stop Message:	Off

Level [dB μ V/m]



x x MES Quasi Peak
- - - MES Preview Peak
— LIM EN55022/B

MEASUREMENT RESULT: "Quasi Peak"

17.02.99 17:24

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarisation
31.470000	27.10	17.6	30.0	2.8	100.0	300.00	VERTICAL
100.020000	23.60	12.0	30.0	6.3	160.0	59.00	VERTICAL
130.320000	23.60	12.7	30.0	6.3	100.0	29.00	VERTICAL
142.920000	25.30	12.3	30.0	4.6	100.0	29.00	VERTICAL
199.950000	22.20	10.8	30.0	7.7	400.0	150.00	HORIZONTAL
456.030000	31.50	19.0	37.0	5.4	220.0	0.00	HORIZONTAL
521.130000	31.20	20.4	37.0	5.7	160.0	150.00	HORIZONTAL
733.080000	34.50	22.4	37.0	2.4	280.0	180.00	VERTICAL

Radiated emission according to:

to EN55022 class B

EUT: Scenic Mobile 750 13" 366MHz PII CDROM
Manufacturer: Siemens
Operating Condition: scr. "H" 1024*768, HD/Lan-Test
Test Site: SNI-Augsburg (Semi-anechoic chamber 10m)
Operator: M. Bosse
Configuration: fully conf.; AC-Adapter extern; FDD-Module extern
Comment: MCM1705 card-bus network connected, Accu intern
Start of Test: 08.12.98 / 08:43:25

SCAN TABLE: "10m/30-1000"

Short Description: 10m Field Strength
Unit: dBuV/m

Detector: Mode:

Curve 1: MaxPeak ClearWrite

Subrange 1:

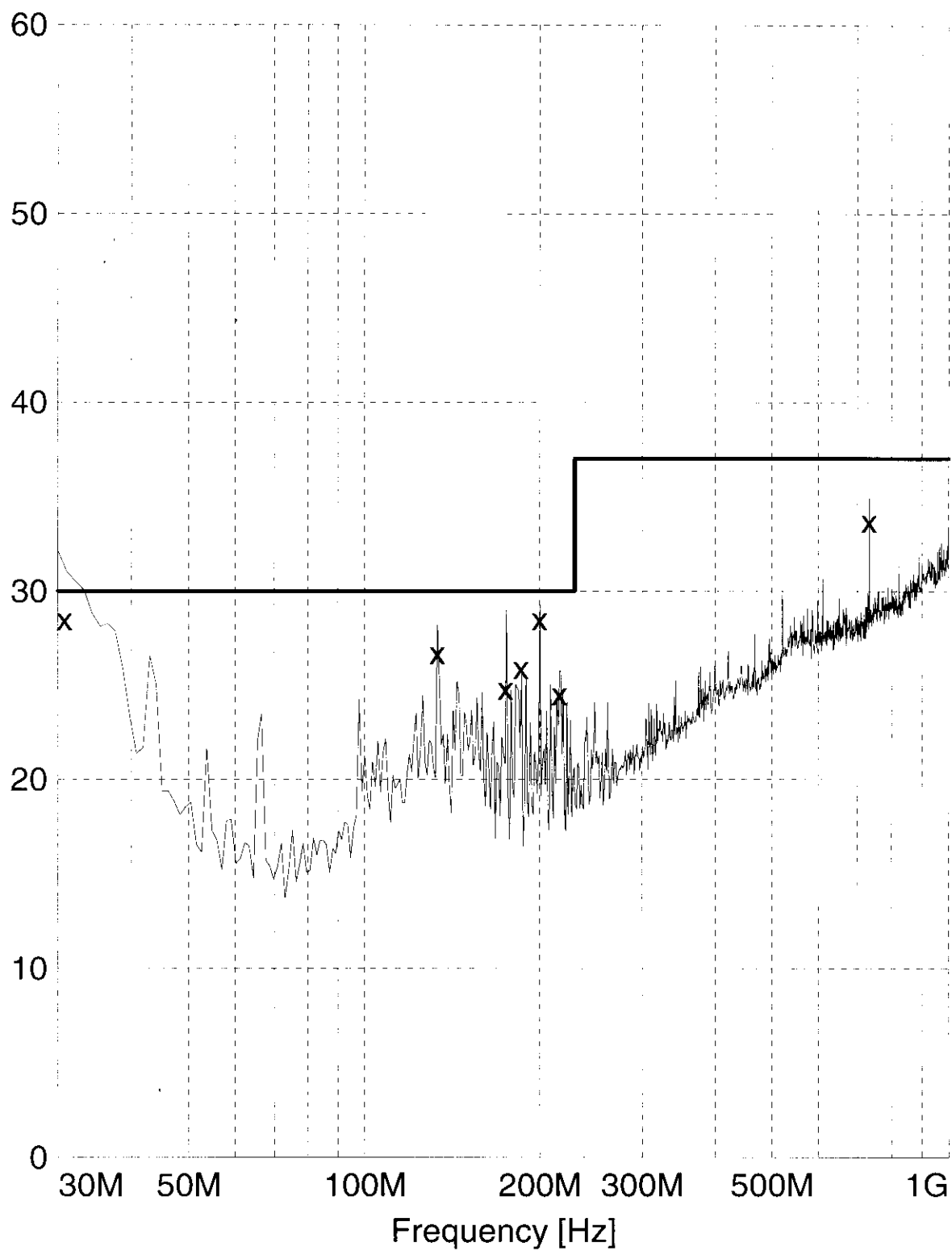
Start Frequency: 30.0 MHz Step Size: 30.0 kHz
Stop Frequency: 1.0 GHz
Measure Time: 10.0 ms
IF Bandwidth: 120 kHz

Receiver: ESXI Transducer: CBL6112 cal. 9/95
Signal Path: 2DC-CP1X1 System Transducer: RFin2-CP1/X1
Meas. Mode: Lin Add. Transd. 1: cable30-1000
Tracking Gen.: Off Add. Transd. 2: None
Input: 2DC Add. Transd. 3: None

Preamplifier: 10 dB Demodulation: AM
RF Att.: Coupled Volume: 70 %
Ref. Level: -60.0 dBm Squelch: --
Min. RF Att.: 0 dB Option: None
IF Att.: --
Autorange: On

Curve 1: On Repetition: Single
Stop Mark: Off
Stop Message: Off
Stop Message:

Level [dB μ V/m]



x x MES Quasi Peak
· MES Preview Peak
— LIM EN55022/B

MEASUREMENT RESULT: "Quasi Peak"

08.12.98 09:37

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarisation
30.780000	28.50	17.9	30.0	1.4	160.0	29.00	VERTICAL
133.320000	26.70	12.6	30.0	3.2	160.0	0.00	VERTICAL
174.780000	24.80	11.1	30.0	5.1	280.0	90.00	HORIZONTAL
185.670000	25.90	10.8	30.0	4.0	400.0	90.00	HORIZONTAL
199.950000	28.50	10.8	30.0	1.4	100.0	119.00	VERTICAL
216.210000	24.50	11.8	30.0	5.4	100.0	119.00	VERTICAL
733.110000	33.70	22.4	37.0	3.2	220.0	180.00	VERTICAL

Radiated emission according to:

to FCC class B

EUT: Scenic Mobile 750 13" 366MHz PII CDROM
Manufacturer: Siemens
Operating Condition: scr. "H" 1024*768, HD//CD/Lan-Test
Test Site: SNI-Augsburg (Semi-anechoic chamber 10m)
Operator: M. Bosse
Configuration: fully conf.; AC-Adapter extern; FDD-Module extern
Comment: MCM1705 card-bus network connected, Accu intern
Start of Test: 08.12.98 / 11:00:17

SCAN TABLE: "FCC1-3GHz"

Short Description: 3m Messung FCC 1 bis 3 GHz
Unit: dBµV/m

Detector: Mode:
Curve 1: MaxPeak MaxHold
Curve 2: Average MaxHold

Subrange 1:

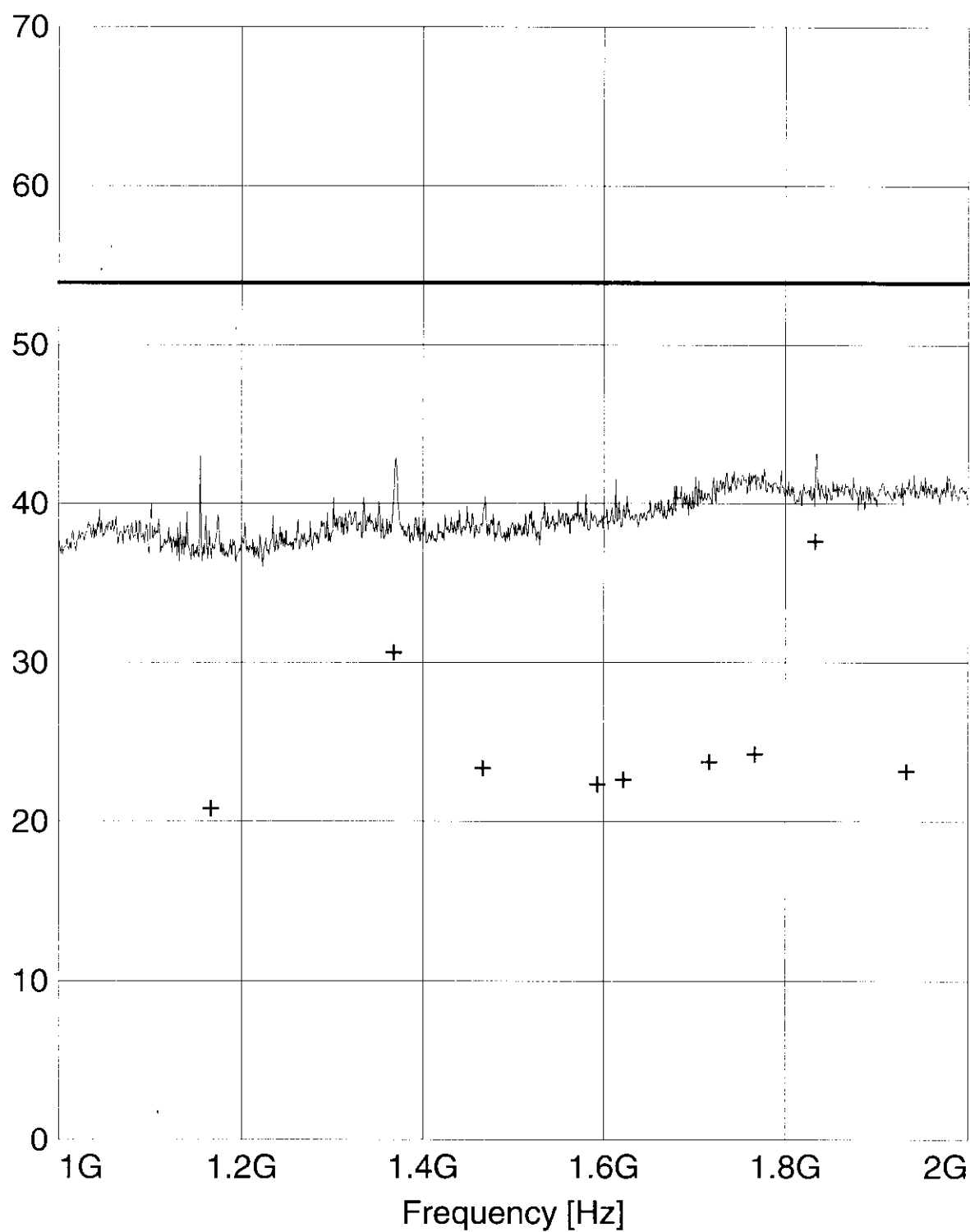
Start Frequency:	1.0 GHz	Step Size:	300.0 kHz
Stop Frequency:	3.0 GHz		
Measure Time:	10.0 ms		
IF Bandwidth:	1 MHz		
Receiver:	ESXI	Transducer:	Tensor4105v
Signal Path:	2DC-CP7X1	System Transducer:	RFin2-CP7/X1
Meas. Mode:	Lin	Add. Transd. 1:	Rosenberger 8m
Tracking Gen.:	Off	Add. Transd. 2:	None
Input:	2DC	Add. Transd. 3:	None
Preamplifier:	10 dB	Demodulation:	AM
RF Att.:	Coupled	Volume:	70 %
Ref. Level:	-30.0 dBm	Squelch:	--
Min. RF Att.:	0 dB	Option:	None
IF Att.:	--		
Autorange:	On		
Curve 1:	On	Repetition:	Single
Curve 2:	On	Stop Mark:	Off
		Stop Message:	Off
		Stop Message:	

MEASUREMENT RESULT: "Average"

08.12.98 11:33

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarisation
1166.200000	21.00	8.2	53.9	32.8	100.0	119.00	VERTICAL
1367.800000	30.80	9.2	53.9	23.0	100.0	300.00	HORIZONTAL
1466.200000	23.50	9.1	53.9	30.3	180.0	119.00	HORIZONTAL
1593.100000	22.50	10.0	53.9	31.3	280.0	239.00	VERTICAL
1621.900000	22.80	10.1	53.9	31.0	100.0	59.00	HORIZONTAL
1716.100000	23.90	11.1	53.9	29.9	120.0	0.00	HORIZONTAL
1766.200000	24.40	11.1	53.9	29.4	220.0	0.00	VERTICAL
1832.800000	37.80	10.5	53.9	16.0	100.0	0.00	VERTICAL
1932.700000	23.30	10.9	53.9	30.5	160.0	0.00	VERTICAL

Level [dB μ V/m]



+ + MES Average
- - - MES Preview FCC
— LIM FCC ClassB F QP/AV FCC ClassB, field strength 3m
— LIM FCC ClassB F QP/AV FCC ClassB, field strength 3m

Conducted noise according to:

EN 55022 class B

EUT: Scenic Mobile 750 13" 366MHz PII CD-ROM
Manufacturer: Siemens AG
Operating Condition: scr. "H" 1024*768/, HD+CD+LAN-Test
Test Site: Siemens AG Augsburg SK1
Operator: R. Schaufler
Comment: Fully conf.; AC-Adapter extern; Fdd-Module extern
Comment: MCM1705 card-bus network connected, Accu intern
Start of Test: 09.12.98 / 13:39:22

SCAN TABLE: "Volt_015-30MHZ"

Unit: dBµV

Detector: Mode:

Curve 1: MaxPeak MaxHold
Curve 2: Average MaxHold

Subrange 1:

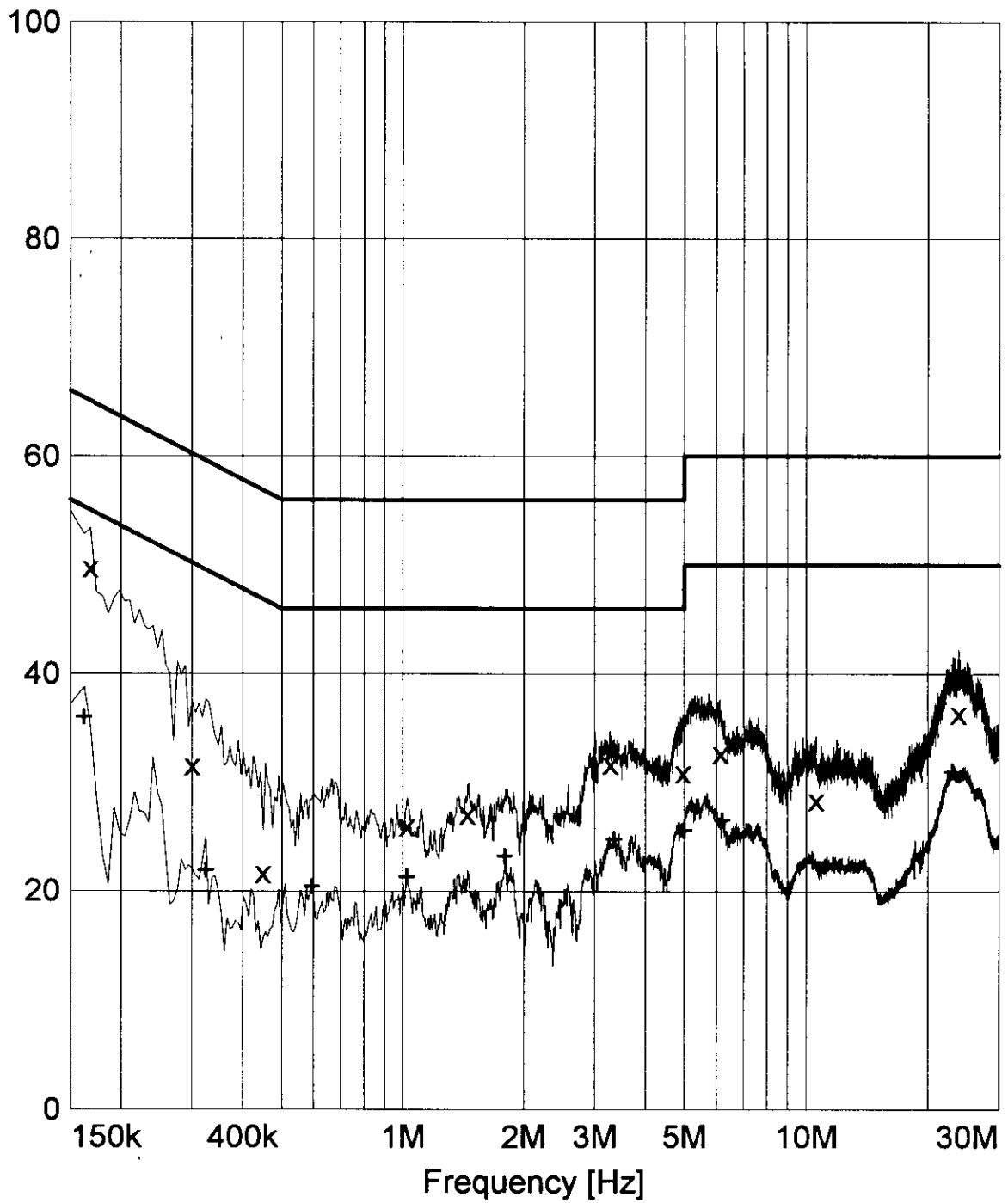
Start Frequency: 150.0 kHz Step Size: 6.0 kHz
Stop Frequency: 30.0 MHz
Measure Time: 10.0 ms
IF Bandwidth: 10 kHz

Receiver: ESHS Transducer: ESH2-Z5
Signal Path: None System Transducer: None
Meas. Mode: Lin Add. Transd. 1: ESH3-Z2
Tracking Gen.: -- Add. Transd. 2: None
Input: -- Add. Transd. 3: None

Preamplifier: Off Demodulation: A3
RF Att.: 0 dB Volume: --
Ref. Level: -- Squelch: --
Min. RF Att.: 10 dB Option: None
IF Att.: LowNoise
Autorange: On

Curve 1: On Repetition: 0
Curve 2: On Stop Mark: Off

Level [dB μ V]



x x MES Quasi Peak
 + + MES Average
 — MES Preview Peak
 — MES Preview AV
 — LIM EN 55022/B V QP
 — LIM EN 55022/B V AV

MEASUREMENT RESULT: "Quasi Peak"

09.12.98 13:50

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.168000	49.80	10.0	65.0	15.1	N	GND
0.300000	31.60	10.0	60.2	28.6	N	GND
0.450000	21.70	10.0	56.8	35.0	N	GND
1.026000	26.00	10.0	56.0	29.9	L1	GND
1.452000	27.10	10.0	56.0	28.8	N	GND
3.288000	31.70	10.0	56.0	24.2	N	GND
4.962000	30.90	10.0	56.0	25.0	L1	GND
6.150000	32.70	10.0	60.0	27.2	L1	GND
10.572000	28.40	10.0	60.0	31.5	N	GND
23.820000	36.40	10.0	60.0	23.5	N	GND

MEASUREMENT RESULT: "Average"

09.12.98 13:50

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.162000	36.00	10.0	55.3	19.3	N	GND
0.324000	21.90	10.0	49.6	27.6	L1	GND
0.594000	20.40	10.0	46.0	25.5	L1	GND
1.026000	21.30	10.0	46.0	24.7	N	GND
1.800000	23.20	10.0	46.0	22.7	L1	GND
3.354000	24.80	10.0	46.0	21.1	N	GND
4.998000	25.60	10.0	46.0	20.3	N	GND
6.204000	26.50	10.0	50.0	23.4	N	GND
10.422000	22.70	10.0	50.0	27.2	L1	GND
22.980000	31.00	10.0	50.0	18.9	L1	GND

Conducted noise according to:

EN 55022 class B

EUT: Scenic Mobile 750 366 MHz PII, CD-ROM
Manufacturer: Siemens AG
Operating Condition: scr. "H"; 1024X768/85Hz; HD/CD-Test;
Test Site: Siemens AG Augsburg SK1
Operator: R. Schaufler
Comment: fully configured; AC-Adapter extern
Comment: Overhead Display connected via cable
Start of Test:

SCAN TABLE: "Volt_015-30MHZ"

Unit: dBuV

Detector: Mode:

Curve 1: MaxPeak MaxHold
Curve 2: Average MaxHold

Subrange 1:

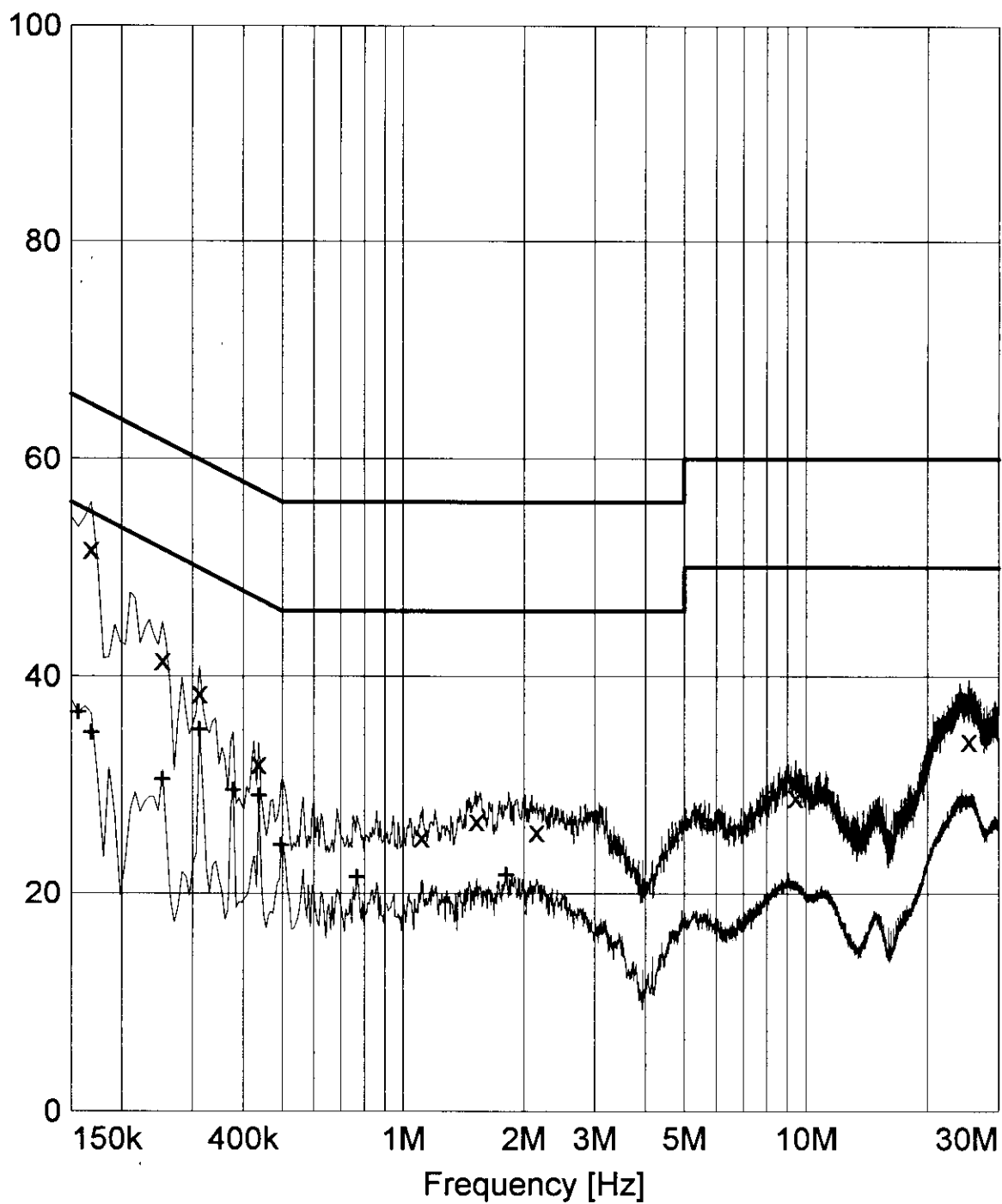
Start Frequency: 150.0 kHz Step Size: 6.0 kHz
Stop Frequency: 30.0 MHz
Measure Time: 10.0 ms
IF Bandwidth: 10 kHz

Receiver: ESHS Transducer: ESH2-Z5
Signal Path: None System Transducer: None
Meas. Mode: Lin Add. Transd. 1: ESH3-Z2
Tracking Gen.: -- Add. Transd. 2: None
Input: -- Add. Transd. 3: None

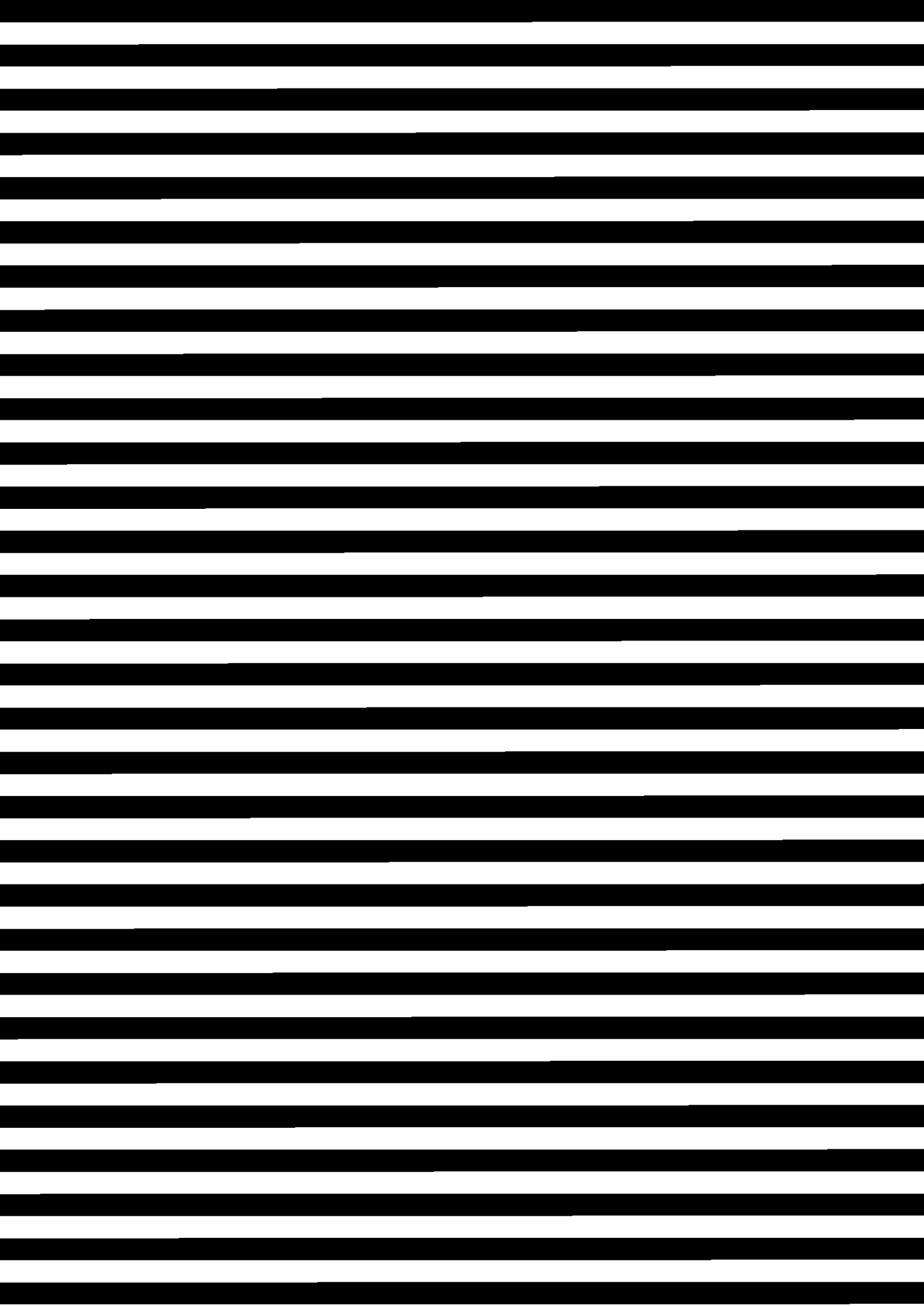
Preamplifier: Off Demodulation: A3
RF Att.: 0 dB Volume: --
Ref. Level: -- Squelch: --
Min. RF Att.: 10 dB Option: None
IF Att.: LowNoise
Autorange: On

Curve 1: On Repetition: 0
Curve 2: On Stop Mark: Off

Level [dB μ V]



x x MES Quasi Peak
 + + MES Average
 — MES Preview Peak
 — MES Preview AV
 — LIM EN 55022/B V QP
 — LIM EN 55022/B V AV



MEASUREMENT RESULT: "Quasi Peak"

25.02.99 17:35

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.168000	51.70	10.0	65.0	13.3	N	GND
0.252000	41.50	10.0	61.6	20.1	N	GND
0.312000	38.50	10.0	59.9	21.4	N	GND
0.438000	32.00	10.0	57.0	25.0	N	GND
1.110000	25.20	10.0	56.0	30.8	N	GND
1.524000	26.70	10.0	56.0	29.2	N	GND
2.154000	25.70	10.0	56.0	30.2	N	GND
9.420000	28.90	10.0	60.0	31.0	L1	GND
25.290000	34.10	10.0	60.0	25.8	N	GND

MEASUREMENT RESULT: "Average"

25.02.99 17:35

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.156000	36.70	10.0	55.6	18.9	N	GND
0.168000	34.80	10.0	55.0	20.2	L1	GND
0.252000	30.50	10.0	51.6	21.1	N	GND
0.312000	35.10	10.0	49.9	14.7	N	GND
0.378000	29.50	10.0	48.3	18.7	N	GND
0.438000	29.00	10.0	47.0	18.0	N	GND
0.498000	24.40	10.0	46.0	21.5	N	GND
0.768000	21.50	10.0	46.0	24.4	L1	GND
1.806000	21.70	10.0	46.0	24.2	L1	GND
24.312000	28.30	10.0	50.0	21.6	N	GND