

Test data: conducted noise

ASTEC PSU: E427-V30

100 MHz clock/Intel Pentium II 500 MHz
video resolution 1024 x 768/100 Hz

100 MHz clock/Intel Pentium II 500 MHz
video resolution 1600 x 1200/85 Hz

Conducted noise according to:

EN5022/B

EUT: Scenic 850 (London / 500MHz, Systemboard D1107)
Manufacturer: Siemens AG
Operating Condition: scr. "H" 1024x768/100Hz, HD/CD-ROM-test
Test Site: EMC CENTER Augsburg ; SK2
Operator: A. Siebenhütter.
Comment : full configuration, PSU E427-V30
Comment: Monitor MCM1705, supply from PC
Start of Test: 09.01.1999 / 09:34:27

SCAN TABLE: "Volt_015-30av"

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

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

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

MEASUREMENT RESULT: "Quasi Peak"

09.01.1999 10:09

Frequency	Level	Limit	Margin	Exceed	Line	PE
MHz	dBµV	dBµV	dB	Mark		
0.180000	44.50	64	20.0		N	GND
0.186000	40.70	64	23.5		L1	GND
0.246000	41.10	62	20.8		N	GND

MEASUREMENT RESULT: "Quasi Peak"

(continued)

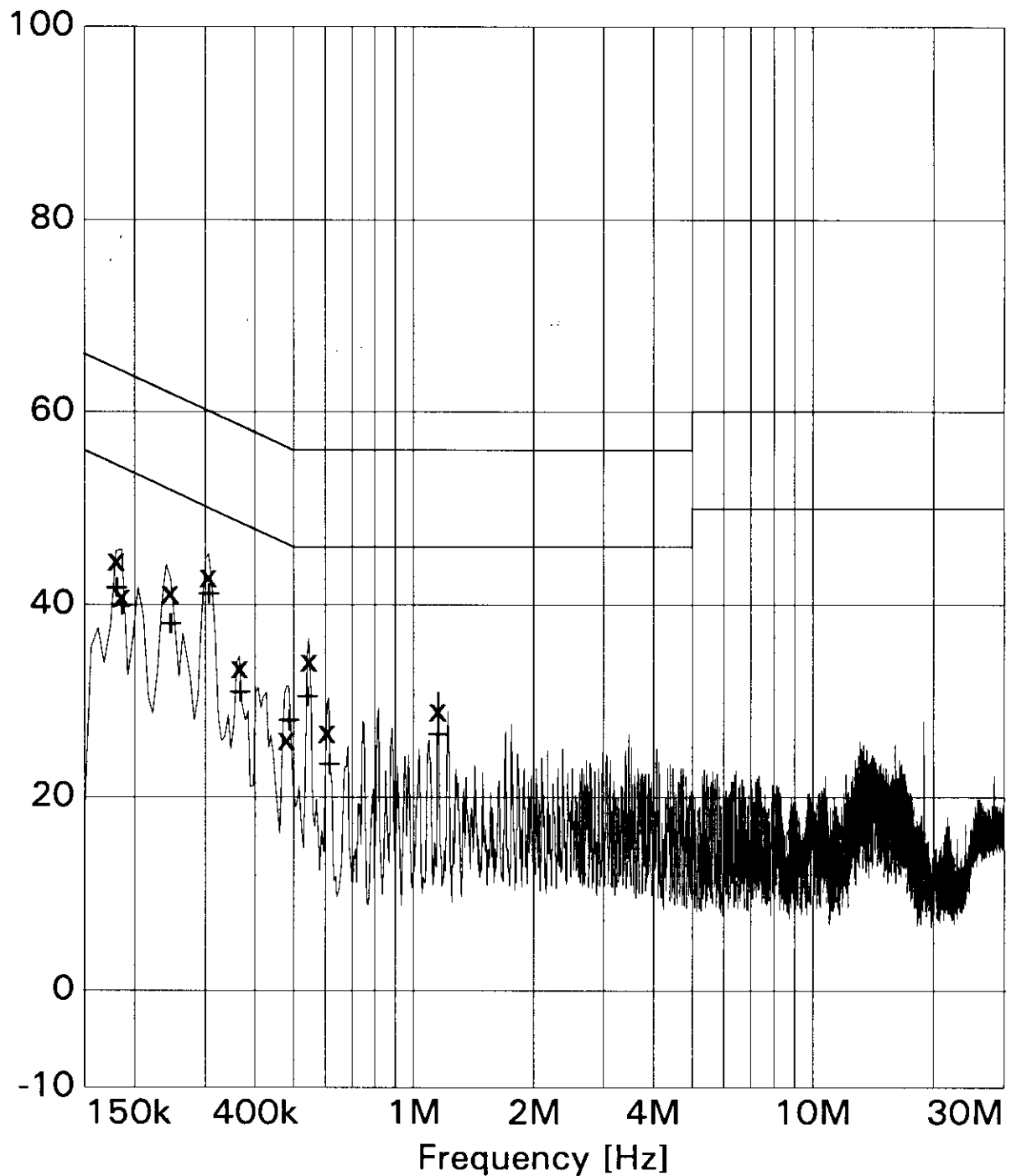
Frequency	Level	Limit	Margin	Exceed	Line	PE
MHz	dBµV	dBµV	dB	Mark		
0.306000	42.80	60	17.3		L1	GND
0.366000	33.30	59	25.3		N	GND
0.480000	25.80	56	30.5		L1	GND
0.546000	34.00	56	22.0		L1	GND
0.606000	26.60	56	29.4		N	GND
1.152000	28.80	56	27.2		L1	GND

MEASUREMENT RESULT: "Average"

09.01.1999 10:09

Frequency	Level	Limit	Margin	Exceed	Line	PE
MHz	dBµV	dBµV	dB	Mark		
0.180000	41.70	54	12.8		N	GND
0.186000	39.90	54	14.3		N	GND
0.246000	38.00	52	13.9		N	GND
0.306000	41.10	50	9.0		N	GND
0.366000	30.80	49	17.8		N	GND
0.486000	27.90	46	18.3		L1	GND
0.540000	30.40	46	15.6		L1	GND
0.612000	23.30	46	22.7		N	GND
1.152000	26.40	46	19.6		L1	GND

Level [dB μ V]



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

Conducted noise according to:

EN5022/B

EUT: Scenic 850 (London / 500MHz, Systemboard D1107)
Manufacturer: Siemens AG
Operating Condition: scr. "H" 1024x768/100Hz, HD/CD-ROM-test
Test Site: EMC CENTER Augsburg ; SK2
Operator: A. Siebenhütter.
Comment : full configuration, PSU E427-V30
Comment: Monitor MCM1705, external supply
Start of Test: 09.01.1999 / 10:11:13

SCAN TABLE: "Volt_015-30av"

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

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

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

MEASUREMENT RESULT: "Quasi Peak"

09.01.1999 10:39

Frequency	Level	Limit	Margin	Exceed	Line	PE
MHz	dBµV	dBµV	dB	Mark		
0.180000	45.20	64	19.3		N	GND
0.246000	38.60	62	23.3		L1	GND
0.300000	42.70	60	17.5		N	GND

MEASUREMENT RESULT: "Quasi Peak"

(continued)

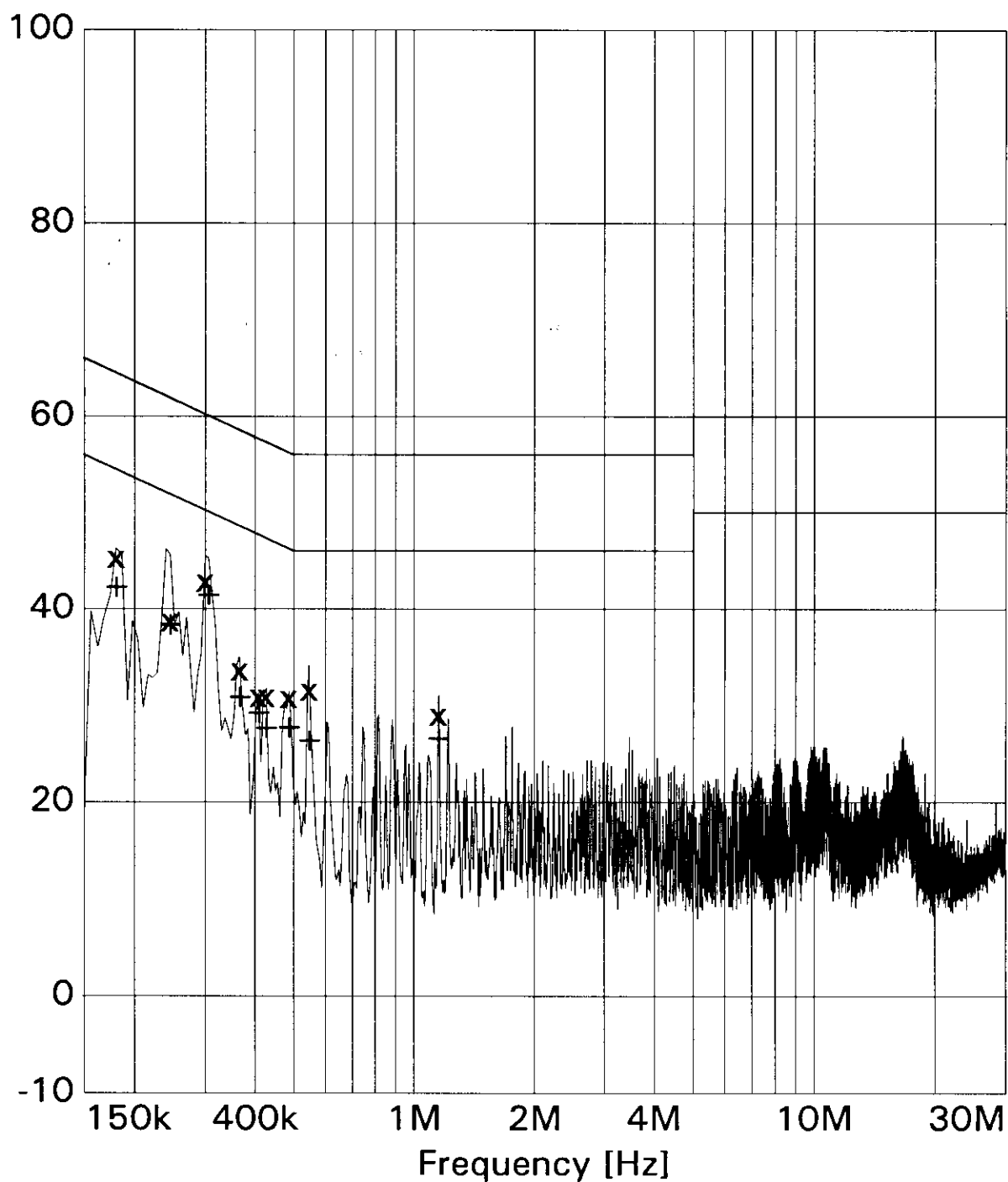
Frequency	Level	Limit	Margin	Exceed	Line	PE
MHz	dBµV	dBµV	dB	Mark		
0.366000	33.60	59	25.0		N	GND
0.408000	30.80	58	26.9		L1	GND
0.426000	30.80	57	26.5		N	GND
0.486000	30.70	56	25.5		N	GND
0.546000	31.50	56	24.5		N	GND
1.152000	28.90	56	27.1		L1	GND

MEASUREMENT RESULT: "Average"

09.01.1999 10:40

Frequency	Level	Limit	Margin	Exceed	Line	PE
MHz	dBµV	dBµV	dB	Mark		
0.180000	42.20	54	12.3		N	GND
0.246000	38.30	52	13.6		N	GND
0.306000	41.40	50	8.7		N	GND
0.366000	30.80	49	17.8		N	GND
0.408000	29.20	48	18.5		L1	GND
0.426000	27.60	47	19.7		N	GND
0.486000	27.70	46	18.5		N	GND
0.546000	26.30	46	19.7		L1	GND
1.152000	26.50	46	19.5		L1	GND

Level [dB μ V]



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

Conducted noise according to:

EN5022/B

EUT: Scenic 850 (London / 500MHz, Systemboard D1107)
Manufacturer: Siemens AG
Operating Condition: scr. "H" 1600 x 1200/85Hz, HD/CD-ROM-test
Test Site: EMC CENTER Augsburg ; SK2
Operator: A. Siebenhütter.
Comment : full configuration, PSU E427-V30
Comment: Monitor MCM2108, supply from PC
Start of Test: 09.01.1999 / 08:51:26

SCAN TABLE: "Volt_015-30av"

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

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

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

MEASUREMENT RESULT: "Quasi Peak"

09.01.1999 09:19

Frequency	Level	Limit	Margin	Exceed	Line	PE
MHz	dBµV	dBµV	dB	Mark		
0.150000	32.50	66	33.5		L1	GND
0.180000	45.10	64	19.4		N	GND
0.246000	41.40	62	20.5		N	GND

MEASUREMENT RESULT: "Quasi Peak"

(continued)

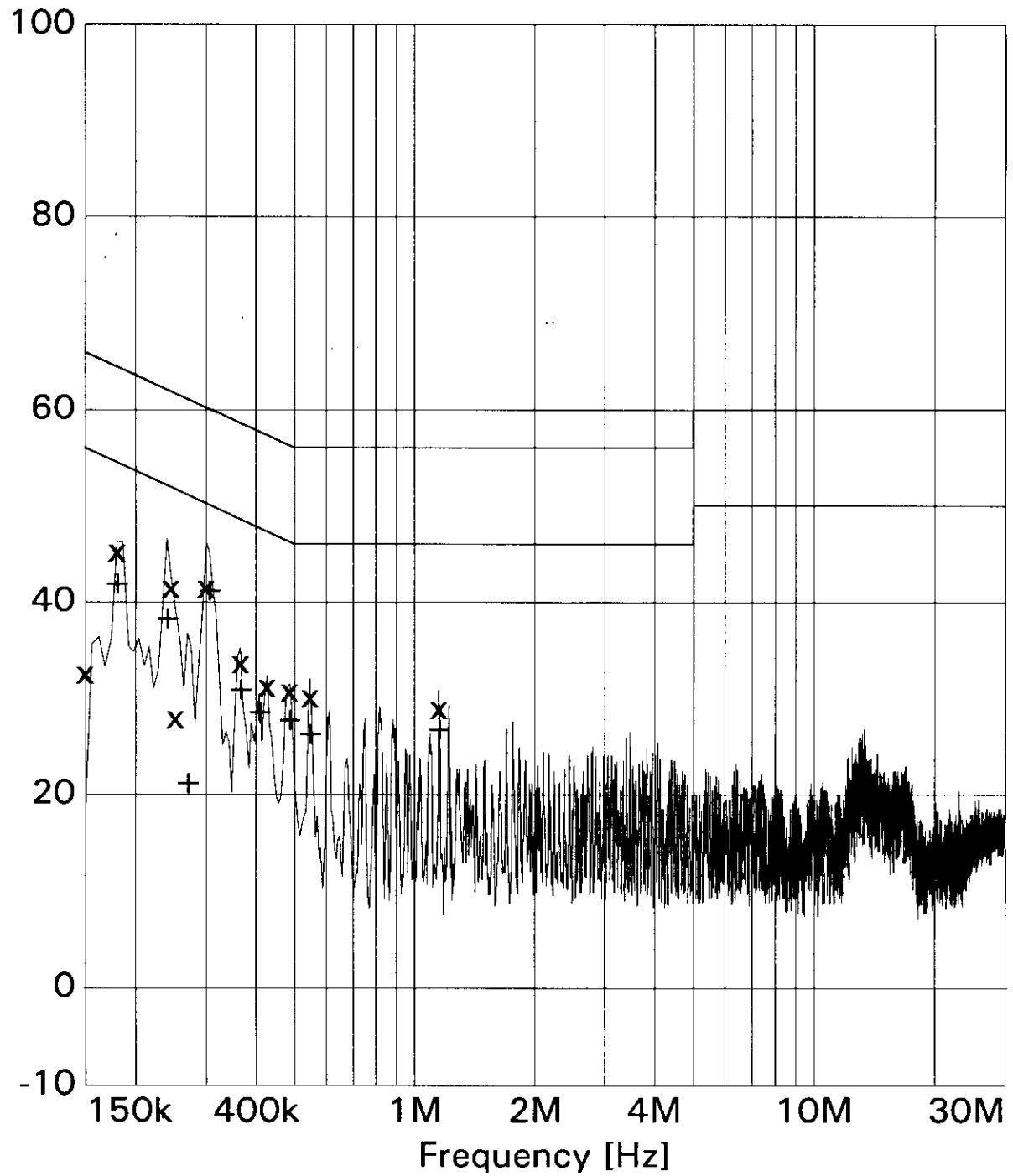
Frequency	Level	Limit	Margin	Exceed	Line	PE
MHz	dBµV	dBµV	dB	Mark		
0.252000	27.80	62	33.9		N	GND
0.300000	41.40	60	18.8		L1	GND
0.366000	33.60	59	25.0		N	GND
0.426000	31.10	57	26.2		N	GND
0.486000	30.60	56	25.6		N	GND
0.546000	30.00	56	26.0		L1	GND
1.152000	28.80	56	27.2		L1	GND

MEASUREMENT RESULT: "Average"

09.01.1999 09:19

Frequency	Level	Limit	Margin	Exceed	Line	PE
MHz	dBµV	dBµV	dB	Mark		
0.180000	41.80	54	12.7		N	GND
0.240000	38.20	52	13.9		N	GND
0.270000	21.10	51	30.0		L1	GND
0.306000	41.10	50	9.0		N	GND
0.366000	30.80	49	17.8		N	GND
0.408000	28.50	48	19.2		L1	GND
0.486000	27.70	46	18.5		N	GND
0.546000	26.20	46	19.8		L1	GND
1.152000	26.70	46	19.3		L1	GND

Level [dB μ V]



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

Conducted noise according to:

EN5022/B

EUT: Scenic 850 (London / 500MHz, Systemboard D1107)
Manufacturer: Siemens AG
Operating Condition: scr. "H" 1600 x 1200/85Hz, HD/CD-ROM-test
Test Site: EMC CENTER Augsburg ; SK2
Operator: A. Siebenhütter
Comment : full configuration, PSU E427-V30
Comment: Monitor MCM2108, Monitor power external
Start of Test: 05.01.1999 / 14:39:10

SCAN TABLE: "Volt_015-30av"

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

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

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

MEASUREMENT RESULT: "Quasi Peak"

05.01.1999 15:07

Frequency	Level	Limit	Margin	Exceed	Line	PE
MHz	dBµV	dBµV	dB	Mark		
0.180000	45.20	64	19.3		N	GND
0.186000	40.40	64	23.8		L1	GND
0.246000	38.60	62	23.3		L1	GND

MEASUREMENT RESULT: "Quasi Peak"

(continued)

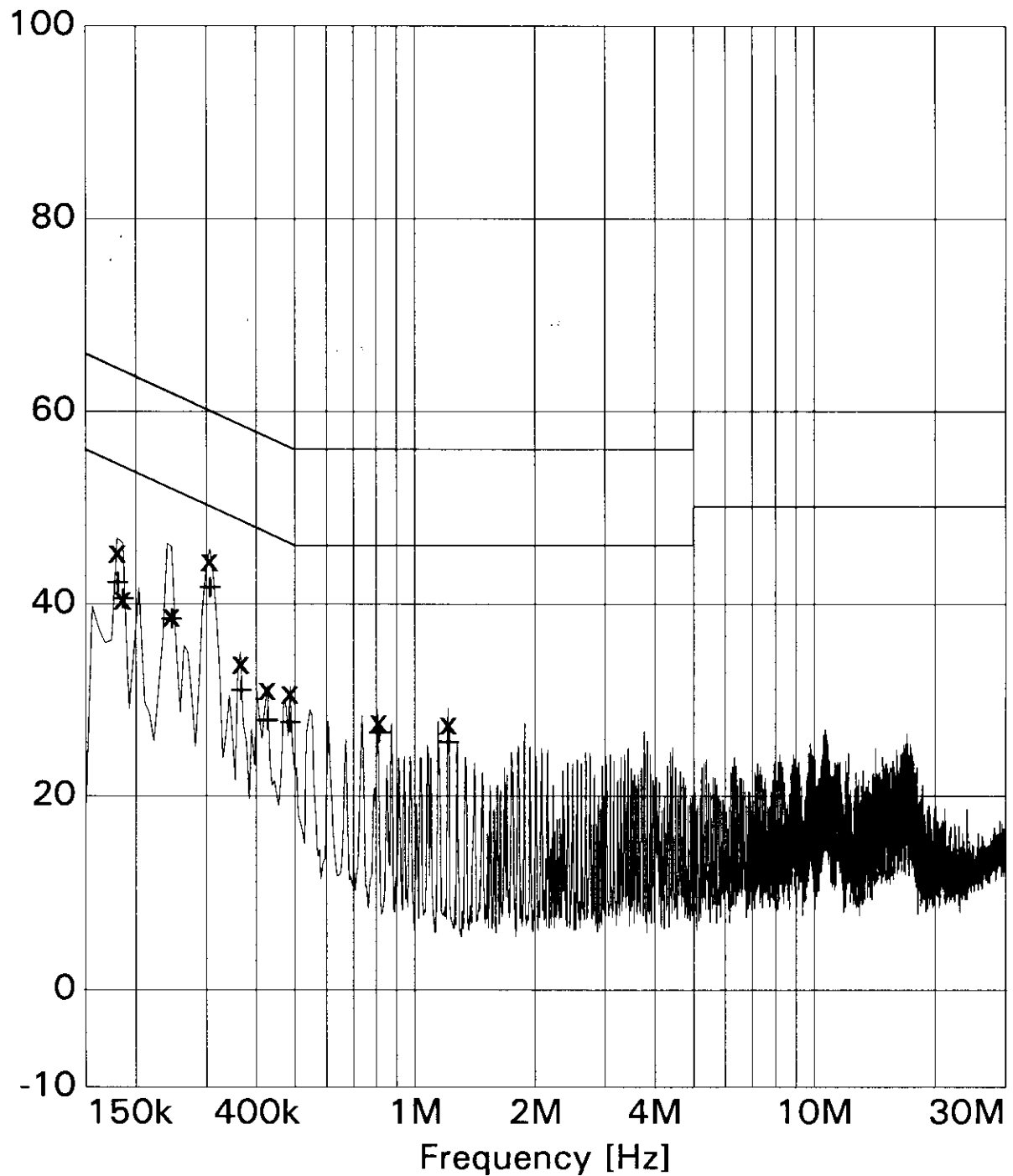
Frequency	Level	Limit	Margin	Exceed	Line	PE
MHz	dBµV	dBµV	dB	Mark		
0.306000	44.30	60	15.8		N	GND
0.366000	33.70	59	24.9		N	GND
0.426000	31.00	57	26.3		N	GND
0.486000	30.60	56	25.6		N	GND
0.810000	27.60	56	28.4		N	GND
1.212000	27.40	56	28.6		L1	GND

MEASUREMENT RESULT: "Average"

05.01.1999 15:07

Frequency	Level	Limit	Margin	Exceed	Line	PE
MHz	dBµV	dBµV	dB	Mark		
0.180000	42.20	54	12.3		N	GND
0.186000	40.50	54	13.7		N	GND
0.246000	38.40	52	13.5		N	GND
0.306000	41.60	50	8.5		N	GND
0.366000	31.00	49	17.6		N	GND
0.426000	27.90	47	19.4		N	GND
0.486000	27.70	46	18.5		N	GND
0.810000	26.60	46	19.4		N	GND
1.212000	25.60	46	20.4		L1	GND

Level [dB μ V]



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

Test data: conducted noise

Minebea PSU: E427-V20

100 MHz clock/Intel Pentium II 500 MHz
video resolution 1024 x 768/100 Hz

100 MHz clock/Intel Pentium II 500 MHz
video resolution 1600 x 1200/85 Hz

Conducted noise according to:

EN 55022 class B

EUT: Scenic 850 (London/500 MHz) D1107
Manufacturer: Siemens AG
Operating Condition: ScrH 1024*768/120 Hz HD/CD-Test
Test Site: Siemens AG Augsburg SK1
Operator: Schaufler.
Comment: Full configuration, mon. MCM2110 (supply from PC)
Comment: PSU Minebea E427-V20, Matrox G200/8MB
Start of Test: 22.01.99 / 10:33:00

SCAN TABLE: "Volt_015-30MHZ"

Unit: dBµV

Detector: Mode:

Curve 1: MaxPeak MaxHold
Curve 2: Average MaxHold

Subrange 1:

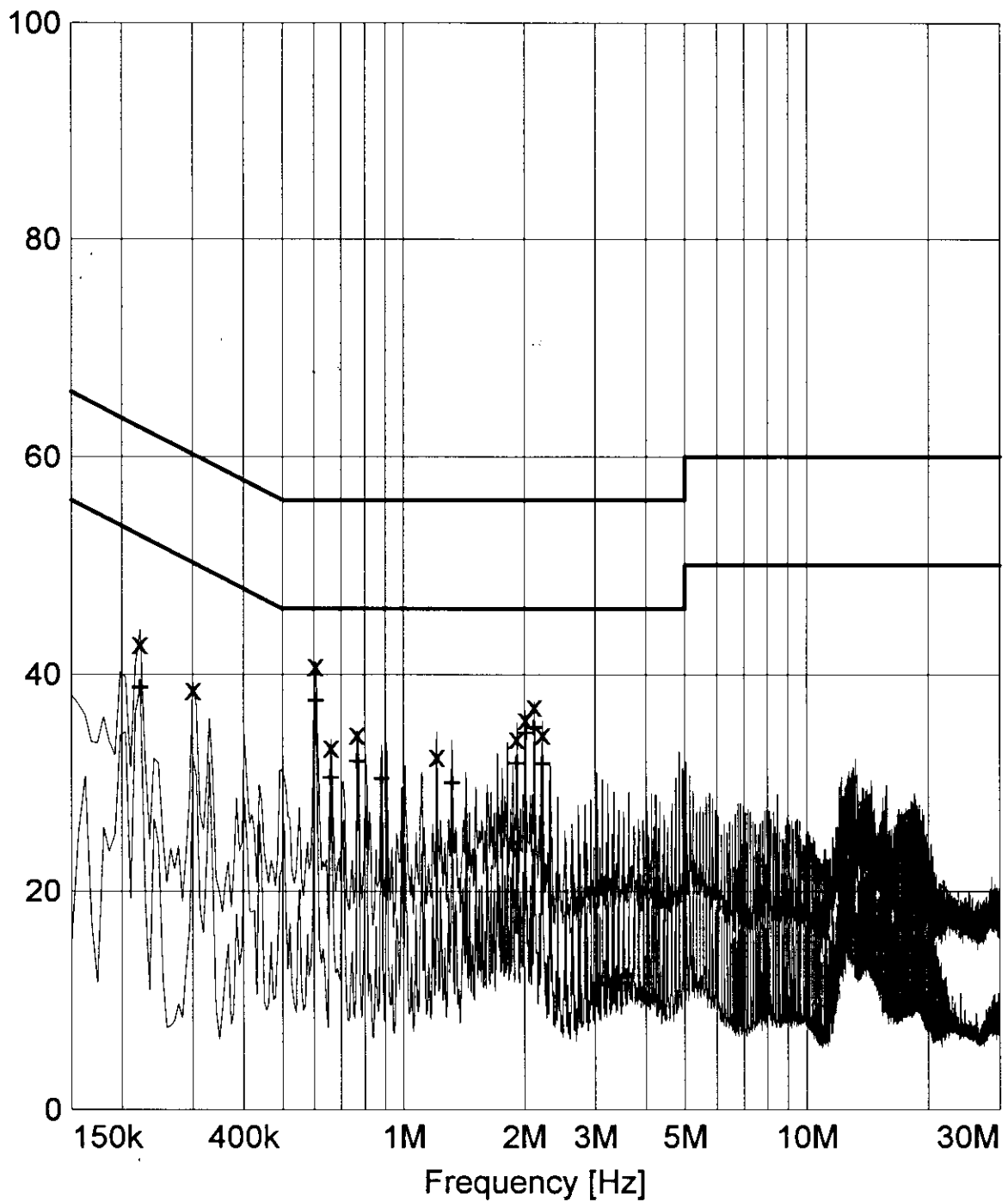
Start Frequency: 150.0 kHz Step Size: 6.0 kHz
Stop Frequency: 30.0 MHz
Measure Time: 10.0 ms
IF Bandwidth: 10 kHz

Receiver: ESHS Transducer: ESH2-25
Signal Path: None System Transducer: None
Meas. Mode: Lin Add. Transd. 1: ESH3-22
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"

22.01.99 10:43

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.222000	42.80	10.0	62.7	19.8	L1	GND
0.300000	38.60	10.0	60.2	21.6	N	GND
0.606000	40.80	10.0	56.0	15.1	L1	GND
0.660000	33.30	10.0	56.0	22.6	N	GND
0.768000	34.50	10.0	56.0	21.4	N	GND
1.212000	32.50	10.0	56.0	23.4	N	GND
1.914000	34.10	10.0	56.0	21.9	N	GND
2.016000	35.90	10.0	56.0	20.0	N	GND
2.118000	37.10	10.0	56.0	18.8	N	GND
2.220000	34.50	10.0	56.0	21.5	L1	GND

MEASUREMENT RESULT: "Average"

22.01.99 10:43

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.222000	38.80	10.0	52.7	13.9	N	GND
0.606000	37.60	10.0	46.0	8.3	N	GND
0.660000	30.50	10.0	46.0	15.4	L1	GND
0.768000	32.00	10.0	46.0	13.9	N	GND
0.882000	30.40	10.0	46.0	15.5	L1	GND
1.320000	30.00	10.0	46.0	15.9	L1	GND
1.914000	31.80	10.0	46.0	14.1	L1	GND
2.016000	34.60	10.0	46.0	11.3	N	GND
2.118000	35.10	10.0	46.0	10.8	L1	GND
2.220000	31.70	10.0	46.0	14.2	L1	GND

Conducted noise according to:

EN 55022 class B

EUT: Scenic 850 (London/500 MHz) D1107
Manufacturer: Siemens AG
Operating Condition: ScrH 1024*768/120 Hz HD/CD-Test
Test Site: Siemens AG Augsburg SK1
Operator: Schaufler.
Comment: Full configuration, mon. MCM2110 (external supply)
Comment: PSU Minebea E427-V20, Matrox G200/8MB
Start of Test: 22.01.99 / 10:03:10

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

MEASUREMENT RESULT: "Quasi Peak"

22.01.99 10:13

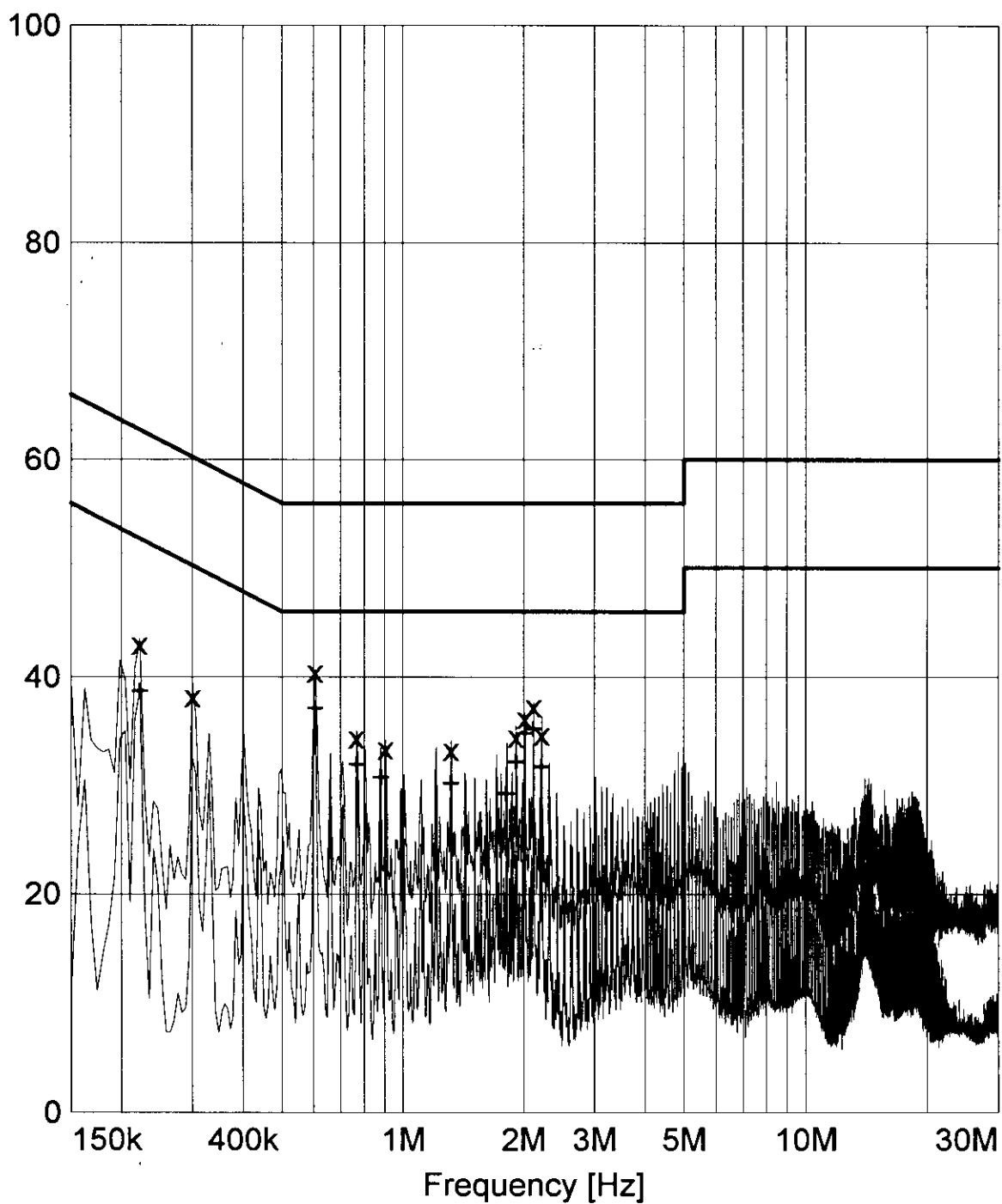
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.222000	43.00	10.0	62.7	19.7	N	GND
0.300000	38.20	10.0	60.2	21.9	L1	GND
0.606000	40.50	10.0	56.0	15.4	L1	GND
0.768000	34.40	10.0	56.0	21.5	N	GND
0.906000	33.40	10.0	56.0	22.6	L1	GND
1.320000	33.30	10.0	56.0	22.6	N	GND
1.914000	34.50	10.0	56.0	21.4	L1	GND
2.016000	36.20	10.0	56.0	19.7	N	GND
2.118000	37.30	10.0	56.0	18.6	N	GND
2.220000	34.70	10.0	56.0	21.2	N	GND

MEASUREMENT RESULT: "Average"

22.01.99 10:13

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.222000	38.70	10.0	52.7	13.9	L1	GND
0.606000	37.10	10.0	46.0	8.8	L1	GND
0.768000	32.00	10.0	46.0	14.0	L1	GND
0.882000	30.80	10.0	46.0	15.1	N	GND
1.320000	30.20	10.0	46.0	15.7	L1	GND
1.812000	29.30	10.0	46.0	16.6	L1	GND
1.914000	32.20	10.0	46.0	13.7	N	GND
2.016000	34.80	10.0	46.0	11.1	N	GND
2.118000	35.20	10.0	46.0	10.7	L1	GND
2.220000	31.80	10.0	46.0	14.1	L1	GND

Level [dBμV]



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

Conducted noise according to:

EN 55022 class B

EUT: Scenic 850 (London/500 MHz) D1107
Manufacturer: Siemens AG
Operating Condition: ScrH 1600*1200/85 Hz HD/CD-Test
Test Site: Siemens AG Augsburg SK1
Operator: Schaufler.
Comment: Full configuration, mon. MCM2110 (supply from PC)
Comment: PSU Minebea E427-V20, Matrox G200/8MB
Start of Test: 22.01.99 / 09:07:55

SCAN TABLE: "Volt_015-30MHZ"

Unit: dBµV

Detector: Mode:

Curve 1: MaxPeak MaxHold
Curve 2: Average MaxHold

Subrange 1:

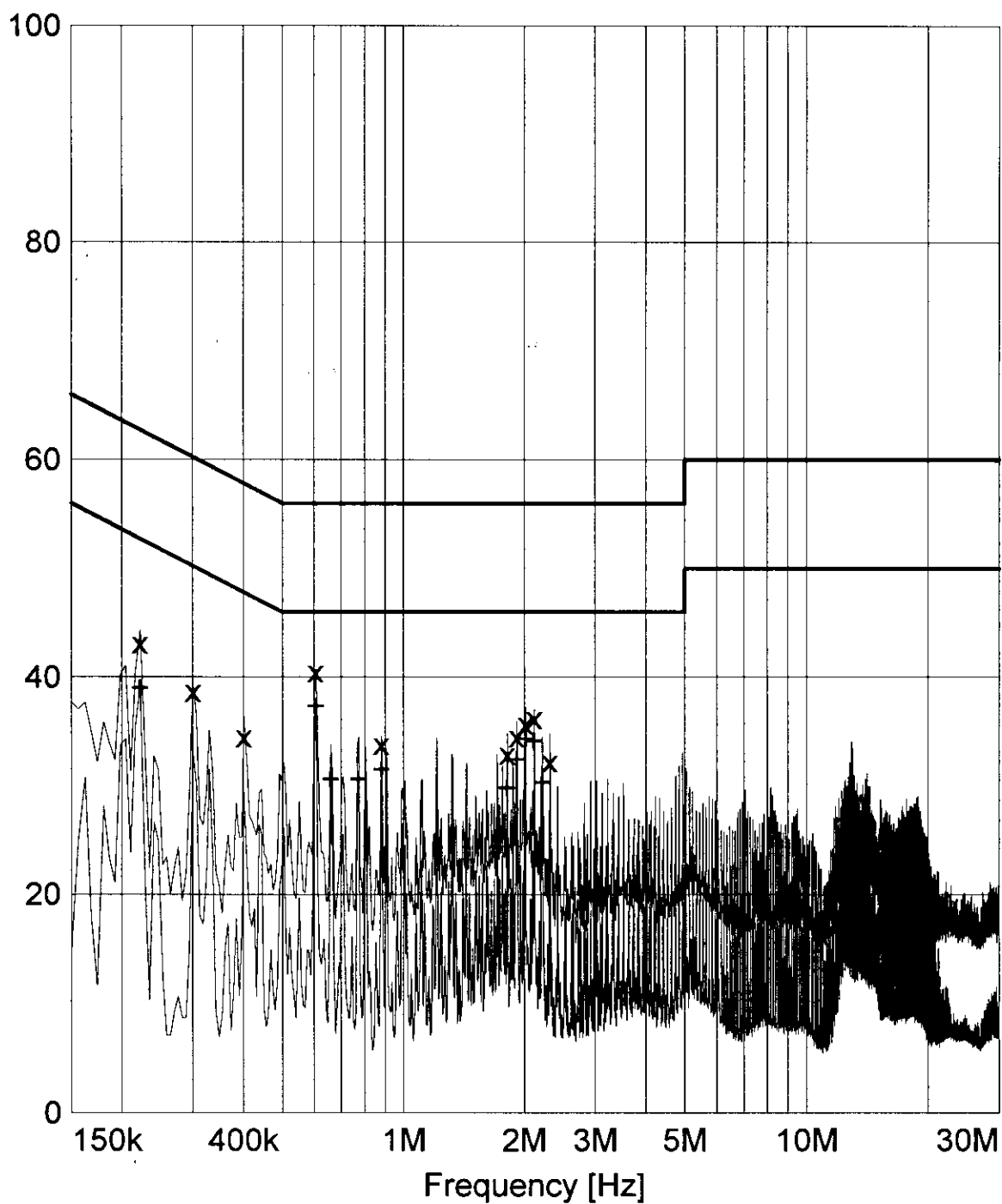
Start Frequency: 150.0 kHz Step Size: 6.0 kHz
Stop Frequency: 30.0 MHz
Measure Time: 10.0 ms
IF Bandwidth: 10 kHz

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"

22.01.99 09:18

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.222000	43.10	10.0	62.7	19.5	N	GND
0.300000	38.70	10.0	60.2	21.5	L1	GND
0.402000	34.50	10.0	57.8	23.2	N	GND
0.606000	40.50	10.0	56.0	15.4	N	GND
0.882000	33.80	10.0	56.0	22.1	N	GND
1.812000	32.90	10.0	56.0	23.0	L1	GND
1.914000	34.50	10.0	56.0	21.5	L1	GND
2.016000	35.70	10.0	56.0	20.2	L1	GND
2.118000	36.20	10.0	56.0	19.7	L1	GND
2.316000	32.20	10.0	56.0	23.7	L1	GND

MEASUREMENT RESULT: "Average"

22.01.99 09:18

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.222000	39.00	10.0	52.7	13.6	N	GND
0.606000	37.30	10.0	46.0	8.6	L1	GND
0.660000	30.60	10.0	46.0	15.3	L1	GND
0.774000	30.60	10.0	46.0	15.3	L1	GND
0.882000	31.50	10.0	46.0	14.4	L1	GND
1.812000	29.80	10.0	46.0	16.1	L1	GND
1.914000	32.40	10.0	46.0	13.5	N	GND
2.016000	34.30	10.0	46.0	11.6	L1	GND
2.118000	34.10	10.0	46.0	11.8	L1	GND
2.220000	30.30	10.0	46.0	15.6	N	GND

Conducted noise according to:

EN 55022 class B

EUT: Scenic 850 (London/500 MHz) D1107
Manufacturer: Siemens AG
Operating Condition: ScrH 1600*1200/85 Hz HD/CD-Test
Test Site: Siemens AG Augsburg SK1
Operator: Schaufler.
Comment: Full configuration, mon. MCM2110 (external supply)
Comment: PSU Minebea E427-V20, Matrox G200/8MB
Start of Test: 22.01.99 / 09:39:48

SCAN TABLE: "Volt_015-30MHZ"

Unit: dBµV

Detector: Mode:

Curve 1: MaxPeak MaxHold
Curve 2: Average MaxHold

Subrange 1:

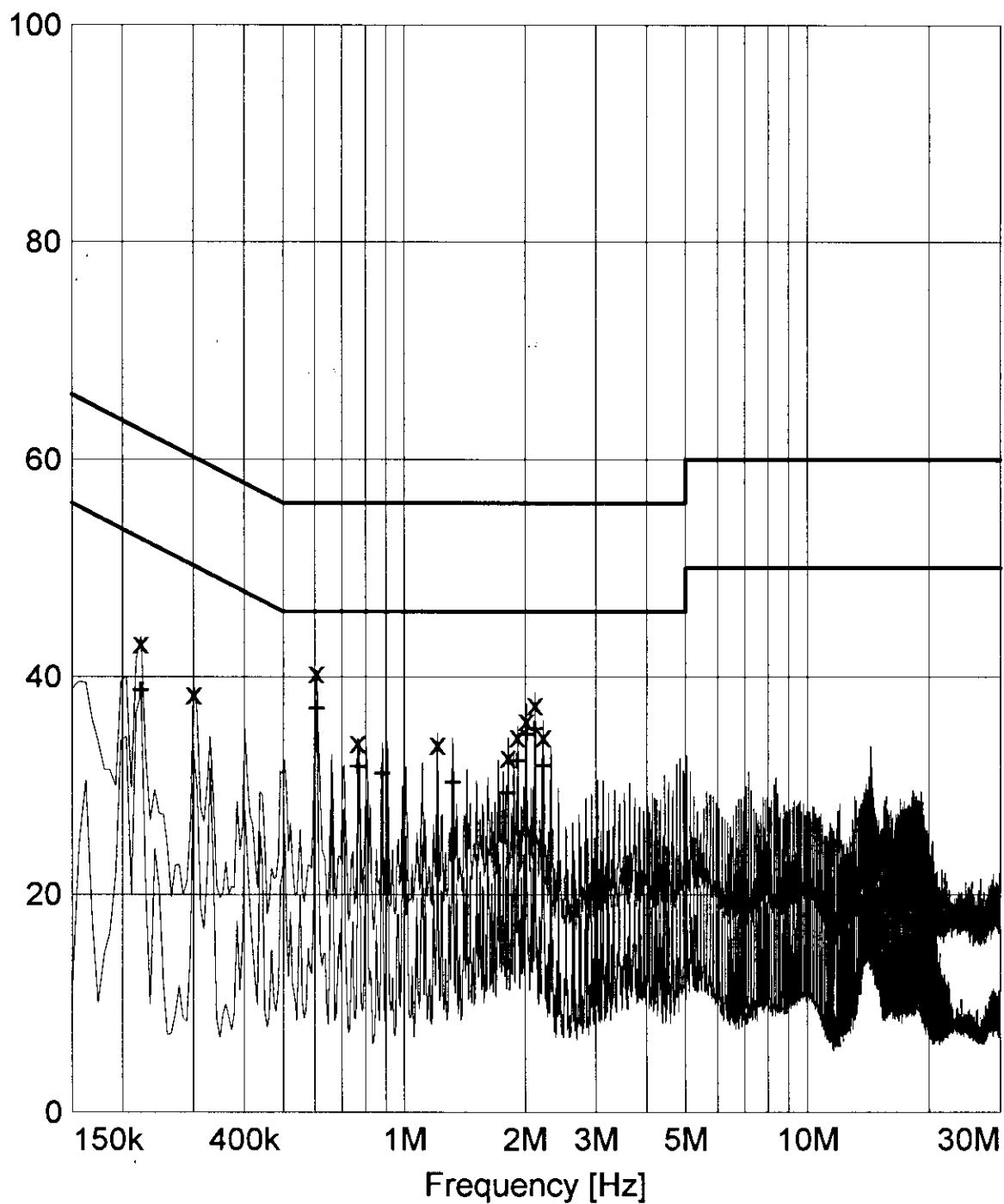
Start Frequency: 150.0 kHz Step Size: 6.0 kHz
Stop Frequency: 30.0 MHz
Measure Time: 10.0 ms
IF Bandwidth: 10 kHz

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"

22.01.99 09:50

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.222000	43.10	10.0	62.7	19.5	L1	GND
0.300000	38.40	10.0	60.2	21.8	L1	GND
0.606000	40.40	10.0	56.0	15.5	L1	GND
0.768000	34.00	10.0	56.0	21.9	L1	GND
1.212000	33.80	10.0	56.0	22.1	L1	GND
1.812000	32.60	10.0	56.0	23.3	L1	GND
1.914000	34.50	10.0	56.0	21.4	L1	GND
2.016000	36.00	10.0	56.0	19.9	L1	GND
2.118000	37.50	10.0	56.0	18.4	L1	GND
2.220000	34.50	10.0	56.0	21.4	L1	GND

MEASUREMENT RESULT: "Average"

22.01.99 09:50

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.222000	38.80	10.0	52.7	13.9	L1	GND
0.606000	37.10	10.0	46.0	8.8	N	GND
0.768000	31.70	10.0	46.0	14.2	L1	GND
0.882000	31.10	10.0	46.0	14.8	N	GND
1.320000	30.30	10.0	46.0	15.6	L1	GND
1.812000	29.30	10.0	46.0	16.6	L1	GND
1.914000	32.30	10.0	46.0	13.6	N	GND
2.016000	34.70	10.0	46.0	11.2	L1	GND
2.118000	35.20	10.0	46.0	10.7	L1	GND
2.220000	31.80	10.0	46.0	14.1	L1	GND

Test data: radiated emission

ASTEC PSU: E427-V30

Frequency range 30 MHz - 1 GHz:

100 MHz clock/Intel Pentium II 500 MHz

video resolution 1024 x 768/100 Hz

100 MHz clock/Intel Pentium II 500 MHz

video resolution 1600 x 1200/85 Hz

Frequency range 1 GHz - 5 GHz:

100 MHz clock/Intel Pentium II 500 MHz

video resolution 1600 x 1200/85 Hz

Radiated emission according to:

to EN55022 class B

EUT: Scenic 850 (London / 500MHz, Systemboard D1107)
Manufacturer: Siemens AG
Operating Condition: Scr."H", 1024x768/100Hz ;HD/LAN/CD-Test
Test Site: Siemens-Augsburg (Semi-anechoic chamber 10m)
Operator: A. Siebenhütter
Configuration: full configuration, Monitor MCM 1705
Comment: SV E427-V30; Matrox G200/8Mb
Start of Test: 23.12.98 / 10:09:03

SCAN TABLE: "10m/30-1000"

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

Detector: Mode:

Curve 1: MaxPeak ClearWrite

Subrange 1:

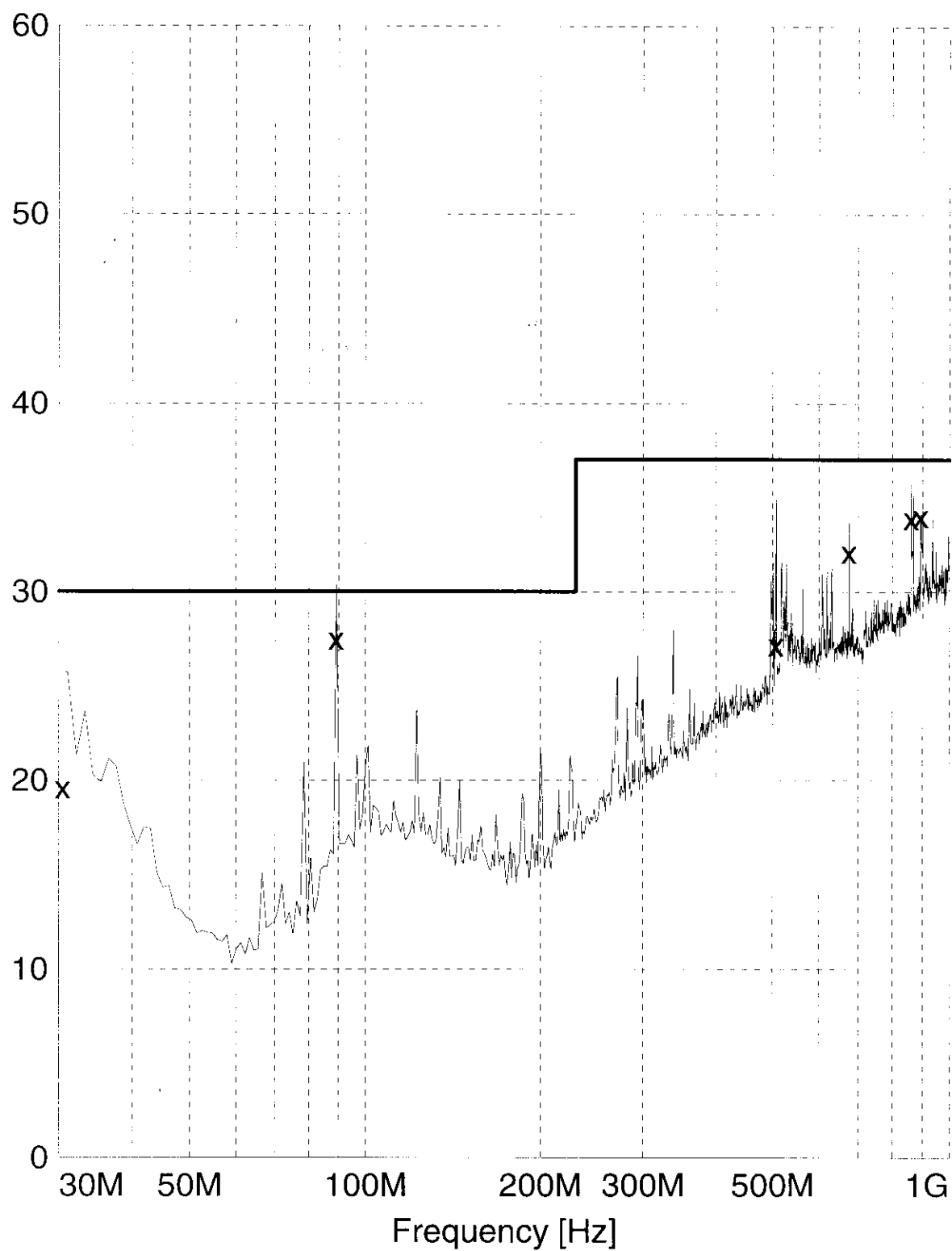
Start Frequency:	30.0 MHz	Step Size:	30.0 kHz
Stop Frequency:	1.0 GHz		
Measure Time:	10.0 ms		
IF Bandwidth:	120 kHz		

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"

23.12.98 11:10

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarisation
30.480000	19.60	18.1	30.0	10.3	100.0	150.00	VERTICAL
89.100000	27.50	10.0	30.0	2.5	160.0	300.00	VERTICAL
506.250000	27.20	19.9	37.0	9.7	220.0	59.00	HORIZONTAL
675.000000	32.10	21.7	37.0	4.8	400.0	59.00	HORIZONTAL
860.400000	33.90	23.3	37.0	3.0	340.0	59.00	HORIZONTAL
893.460000	34.00	23.7	37.0	2.9	280.0	59.00	HORIZONTAL

Radiated emission according to:
to EN55022 class B

EUT: Scenic 850 (London / 500MHz, Systemboard D1107)
Manufacturer: Siemens AG
Operating Condition: Scr."H", 1600x1200/85Hz ;HD/LAN/CD-Test
Test Site: Siemens-Augsburg (Semi-anechoic chamber 10m)
Operator: A. Siebenhütter
Configuration: full configuration, Monitor MCM 2110
Comment: SV E427-V30; Matrox G200/8Mb
Start of Test: 23.12.98 / 11:22:03

SCAN TABLE: "10m/30-1000"

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

Detector: Mode:

Curve 1: MaxPeak ClearWrite

Subrange 1:

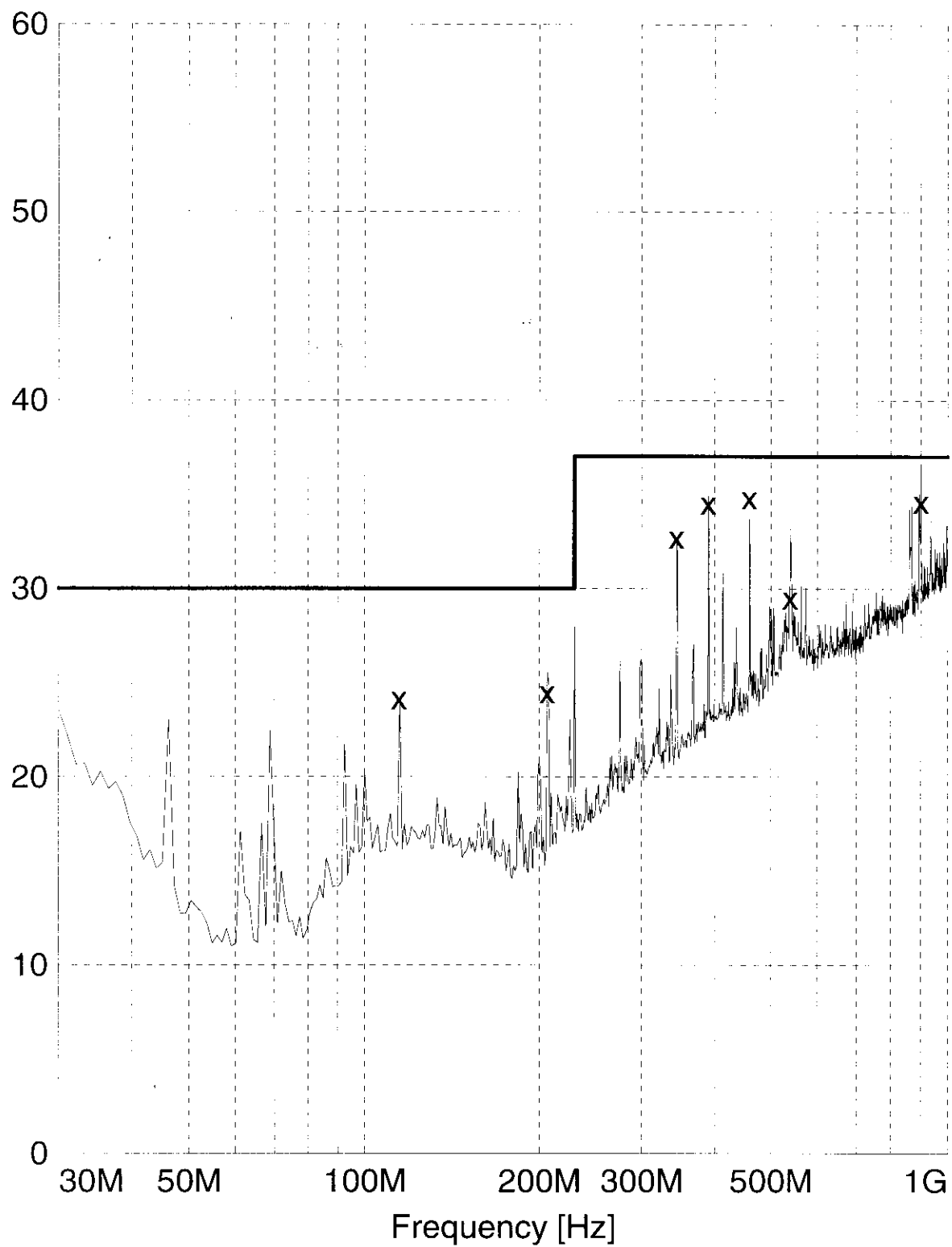
Start Frequency: 30.0 MHz Step Size: 30.0 kHz
Stop Frequency: 1.0 GHz
Measure Time: 10.0 ms
IF Bandwidth: 120 kHz

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"

23.12.98 12:20

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarisation
114.750000	24.20	12.8	30.0	5.7	400.0	59.00	HORIZONTAL
206.580000	24.50	11.2	30.0	5.4	400.0	180.00	HORIZONTAL
344.250000	32.70	16.6	37.0	4.2	100.0	330.00	VERTICAL
390.150000	34.50	18.0	37.0	2.5	100.0	0.00	VERTICAL
459.000000	34.80	19.1	37.0	2.1	220.0	0.00	VERTICAL
539.670000	29.50	21.0	37.0	7.4	160.0	29.00	VERTICAL
900.810000	34.60	23.7	37.0	2.3	280.0	59.00	HORIZONTAL

Radiated emission according to:

to FCC class B

EUT: Scenic 850 (London / 500MHz, Systemboard D1107)
Manufacturer: Siemens AG
Operating Condition: Scr."H", 1600x1200/85Hz ;HD/LAN/CD-Test
Test Site: Siemens-Augsburg (Semi-anechoic chamber 10m)
Operator: A. Siebenhütter
Configuration: full configuration, Monitor MCM 2110
Comment: SV E427-V30; Matrox G200/8Mb
Start of Test: 05.02.99 / 11:20:15

SCAN TABLE: "FCC1-5GHz"

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

Detector: Mode:

Curve 1: MaxPeak MaxHold
Curve 2: Average MaxHold

Subrange 1:

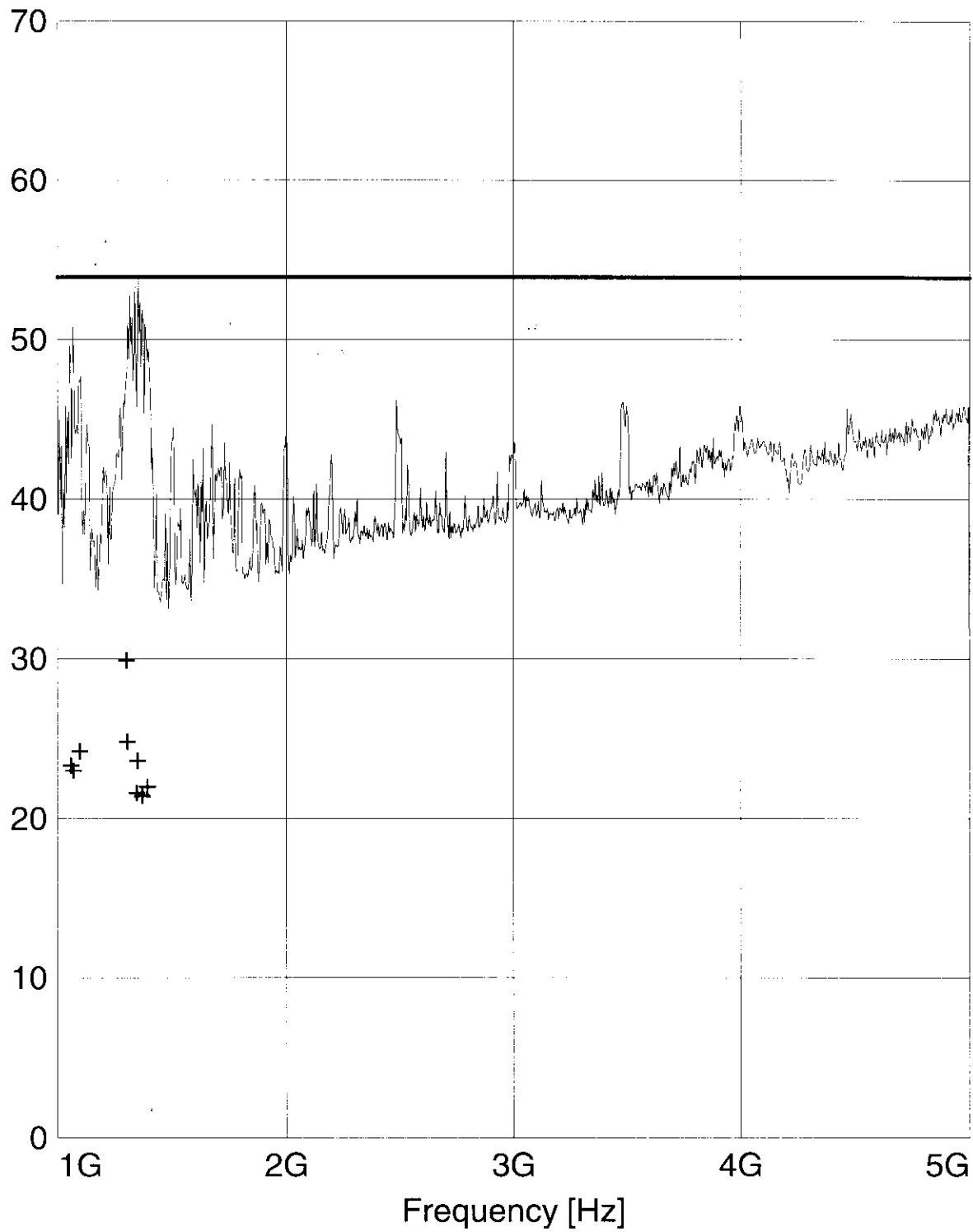
Start Frequency: 1.0 GHz Step Size: 300.0 kHz
Stop Frequency: 5.0 GHz
Measure Time: 10.0 ms
IF Bandwidth: 1 MHz

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:

Level [dBμV/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

MEASUREMENT RESULT: "Average"

05.02.99 12:05

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarisation
1059.700000	23.50	9.2	53.9	30.3	100.0	270.00	VERTICAL
1068.700000	23.20	9.2	53.9	30.6	100.0	29.00	HORIZONTAL
1096.900000	24.40	9.2	53.9	29.4	100.0	210.00	HORIZONTAL
1300.900000	30.10	8.9	53.9	23.7	100.0	59.00	HORIZONTAL
1305.700000	25.00	8.9	53.9	28.8	100.0	29.00	HORIZONTAL
1346.200000	21.80	9.2	53.9	32.0	100.0	119.00	HORIZONTAL
1349.800000	23.80	9.2	53.9	30.0	100.0	29.00	HORIZONTAL
1369.900000	21.60	9.3	53.9	32.2	100.0	119.00	HORIZONTAL
1392.100000	22.20	9.0	53.9	31.6	100.0	119.00	HORIZONTAL

Test data: radiated emission

Minebea PSU: E427-V20

Frequency range 30 MHz - 1 GHz:

100 MHz clock/Intel Pentium II 500 MHz

video resolution 1024 x 768/100 Hz

100 MHz clock/Intel Pentium II 500 MHz

video resolution 1600 x 1200/85 Hz

Frequency range 1 GHz - 5 GHz:

100 MHz clock/Intel Pentium II 500 MHz

video resolution 1600 x 1200/85 Hz

Radiated emission according to:

to EN55022 class B

EUT: Scenic 850 (London / 500MHz, Systemboard D1107)
Manufacturer: Siemens AG
Operating Condition: Scr."H", 1024 x 768/100Hz ;HD/LAN/CD-Test
Test Site: Siemens-Augsburg (Semi-anechoic chamber 10m)
Operator: A. Siebenhütter
Configuration: full configuration, Monitor MCM 1705
Comment: SV E427-V20; Matrox G200/8Mb
Start of Test: 23.12.98 / 11:22:03

SCAN TABLE: "10m/30-1000"

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

Detector: Mode:

Curve 1: MaxPeak ClearWrite

Subrange 1:

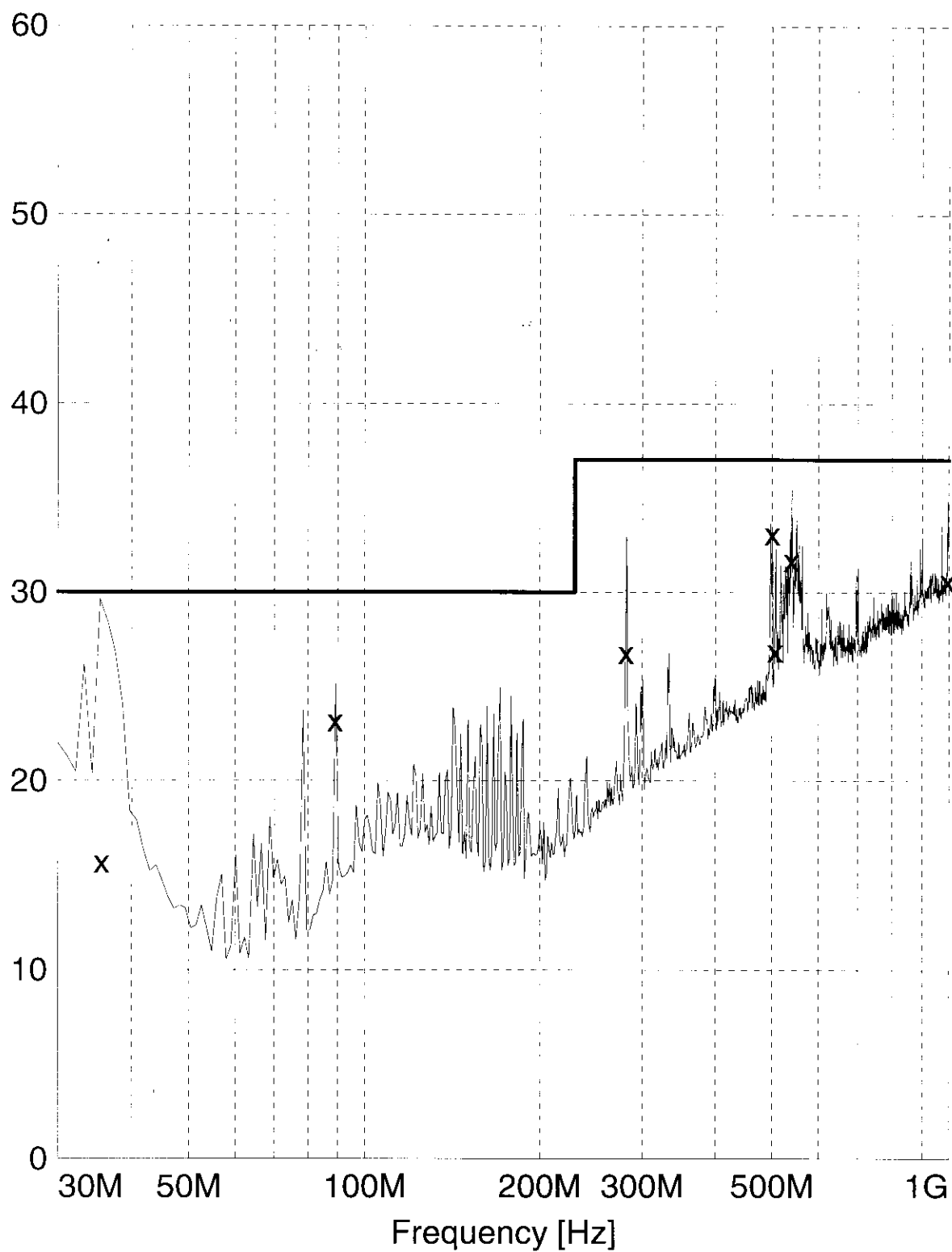
Start Frequency: 30.0 MHz Step Size: 30.0 kHz
Stop Frequency: 1.0 GHz
Measure Time: 10.0 ms
IF Bandwidth: 120 kHz

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"

21.01.99 18:27

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarisation
35.580000	15.70	15.4	30.0	14.2	340.0	119.00	VERTICAL
89.130000	23.20	10.0	30.0	6.7	160.0	29.00	VERTICAL
281.250000	26.80	14.9	37.0	10.1	100.0	239.00	VERTICAL
500.370000	33.10	19.7	37.0	3.8	160.0	210.00	HORIZONTAL
506.250000	26.90	19.9	37.0	10.0	280.0	0.00	VERTICAL
539.850000	31.70	21.0	37.0	5.2	400.0	59.00	HORIZONTAL
995.280000	30.60	24.8	37.0	6.3	100.0	59.00	HORIZONTAL

Radiated emission according to:
to EN55022 class B

EUT: Scenic 850 (London / 500MHz, Systemboard D1107)
Manufacturer: Siemens AG
Operating Condition: Scr."H", 1600 x 1200/85Hz ;HD/LAN/CD-Test
Test Site: Siemens-Augsburg (Semi-anechoic chamber 10m)
Operator: A. Siebenhütter
Configuration: full configuration, Monitor MCM 2110
Comment: SV E427-V20; Matrox G200/8Mb
Start of Test: 21.01.99 / 18:39:31

SCAN TABLE: "10m/30-1000"

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

Detector: Mode:

Curve 1: MaxPeak ClearWrite

Subrange 1:

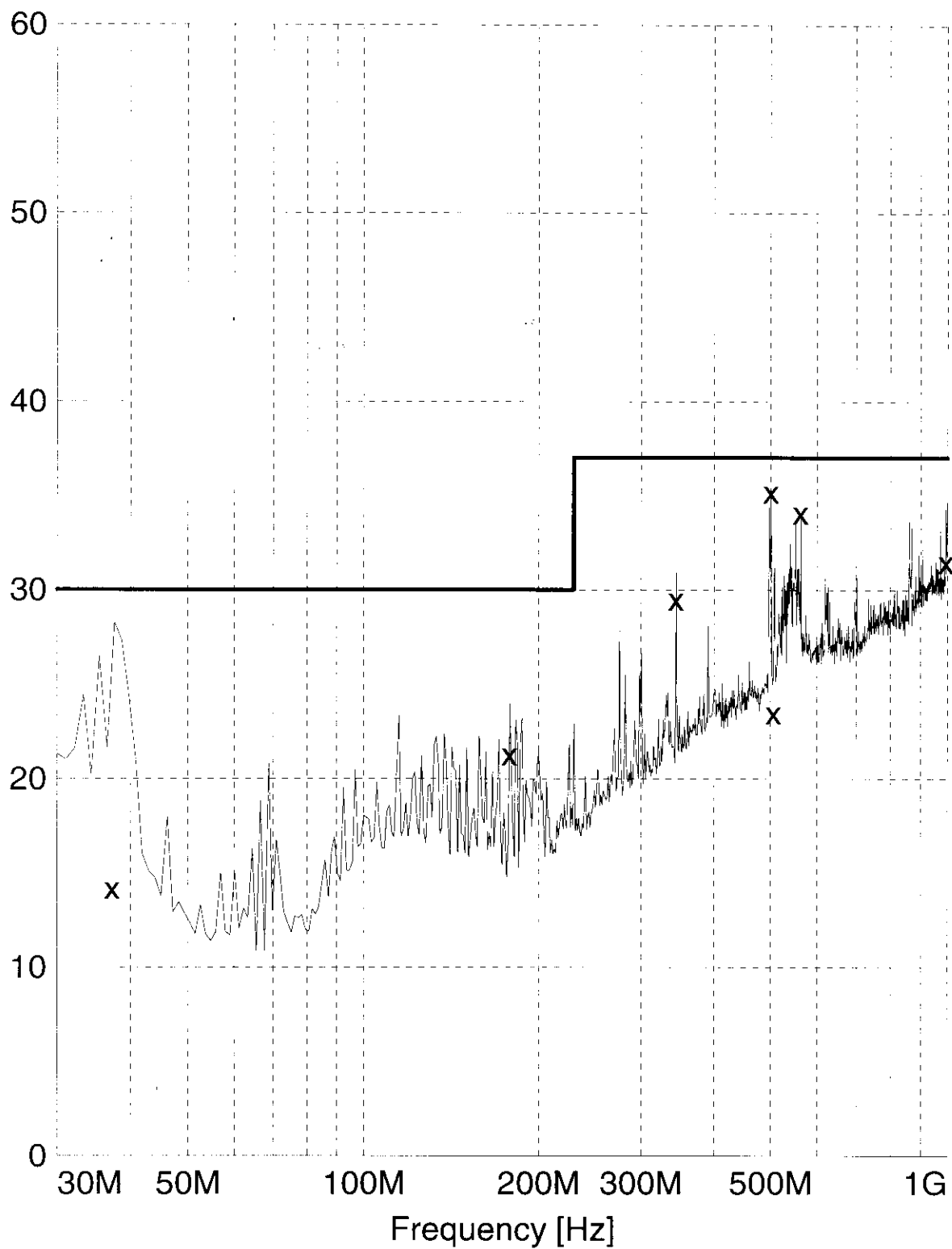
Start Frequency:	30.0 MHz	Step Size:	30.0 kHz
Stop Frequency:	1.0 GHz		
Measure Time:	10.0 ms		
IF Bandwidth:	120 kHz		

Receiver:	ESXI	Transducer:	CBL6112 cal. 9/95
Signal Path:	2DC-CP1X1	System Transducer:	RFin2-CP1/X1
Meas. Mode:	Lin	Add. Transd. 1:	cab30-1000
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"

21.01.99 19:33

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarisation
37.230000	14.20	14.6	30.0	15.7	280.0	90.00	VERTICAL
178.320000	21.30	10.9	30.0	8.6	100.0	180.00	VERTICAL
344.250000	29.50	16.6	37.0	7.4	220.0	29.00	HORIZONTAL
500.340000	35.20	19.7	37.0	1.7	160.0	270.00	HORIZONTAL
505.830000	23.50	19.8	37.0	13.4	280.0	210.00	HORIZONTAL
562.470000	34.10	21.3	37.0	2.8	220.0	59.00	HORIZONTAL
993.810000	31.50	24.7	37.0	5.4	220.0	270.00	VERTICAL

Radiated emission according to:

to FCC class B

EUT: Scenic 850 (London / 500MHz, Systemboard D1107)
Manufacturer: Siemens AG
Operating Condition: Scr."H", 1600x1200/85Hz ;HD/LAN/CD-Test
Test Site: Siemens-Augsburg (Semi-anechoic chamber 10m)
Operator: A. Siebenhütter
Configuration: full configuration, Monitor MCM 2110
Comment: SV E427-V20; Matrox G200/8Mb
Start of Test: 05.02.99 / 13:24:53

SCAN TABLE: "FCC1-5GHz"

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

Detector: Mode:

Curve 1: MaxPeak MaxHold
Curve 2: Average MaxHold

Subrange 1:

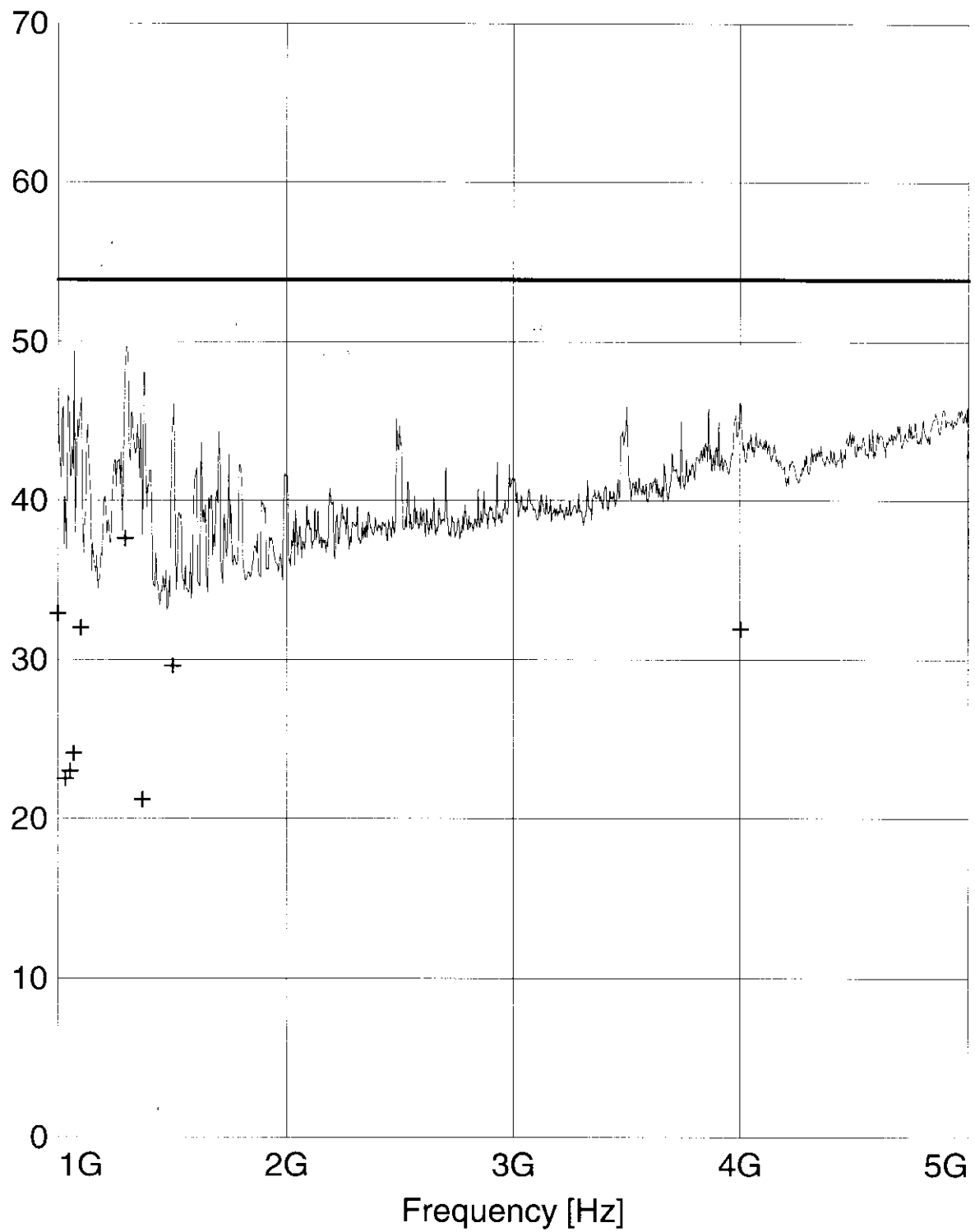
Start Frequency: 1.0 GHz Step Size: 300.0 kHz
Stop Frequency: 5.0 GHz
Measure Time: 10.0 ms
IF Bandwidth: 1 MHz

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:

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

MEASUREMENT RESULT: "Average"

05.02.99 13:47

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarisation
1000.300000	33.10	8.9	20.8	53.9	100.0	195.00	HORIZONTAL
1032.100000	22.70	8.9	53.9	31.1	100.0	0.00	HORIZONTAL
1053.700000	23.20	9.2	53.9	30.6	100.0	59.00	VERTICAL
1068.700000	24.30	9.2	53.9	29.5	100.0	29.00	VERTICAL
1100.500000	32.20	9.1	53.9	21.6	100.0	239.00	HORIZONTAL
1293.700000	37.80	9.0	53.9	16.0	100.0	239.00	HORIZONTAL
1369.600000	21.40	9.2	53.9	32.4	300.0	59.00	HORIZONTAL
1501.000000	29.80	9.3	53.9	24.0	100.0	59.00	HORIZONTAL
4003.600000	32.10	18.6	53.9	21.7	140.0	29.00	HORIZONTAL