

**Conducted noise according to:
EN 55022 class B**

EUT: Scenic 662 (DT6), D1171-A10, PIII 600 MHz
Manufacturer: Siemens AG
Operating Condition: Scroll "H" 1024x768x85Hz, HD + CD + LAN-Test, PSU: ASTEC
Test Site: Siemens AG Augsburg SK1
Operator: R. Schaufler
Configuration: Full config. - Monitor via PC Outlet, FSB 100 MHz,
Comment: Monitor: MCM 1707
Start of Test: 24.09.99 / 13:21:03

SCAN TABLE: "Volt_015-30MHZ"
Unit: dBµV

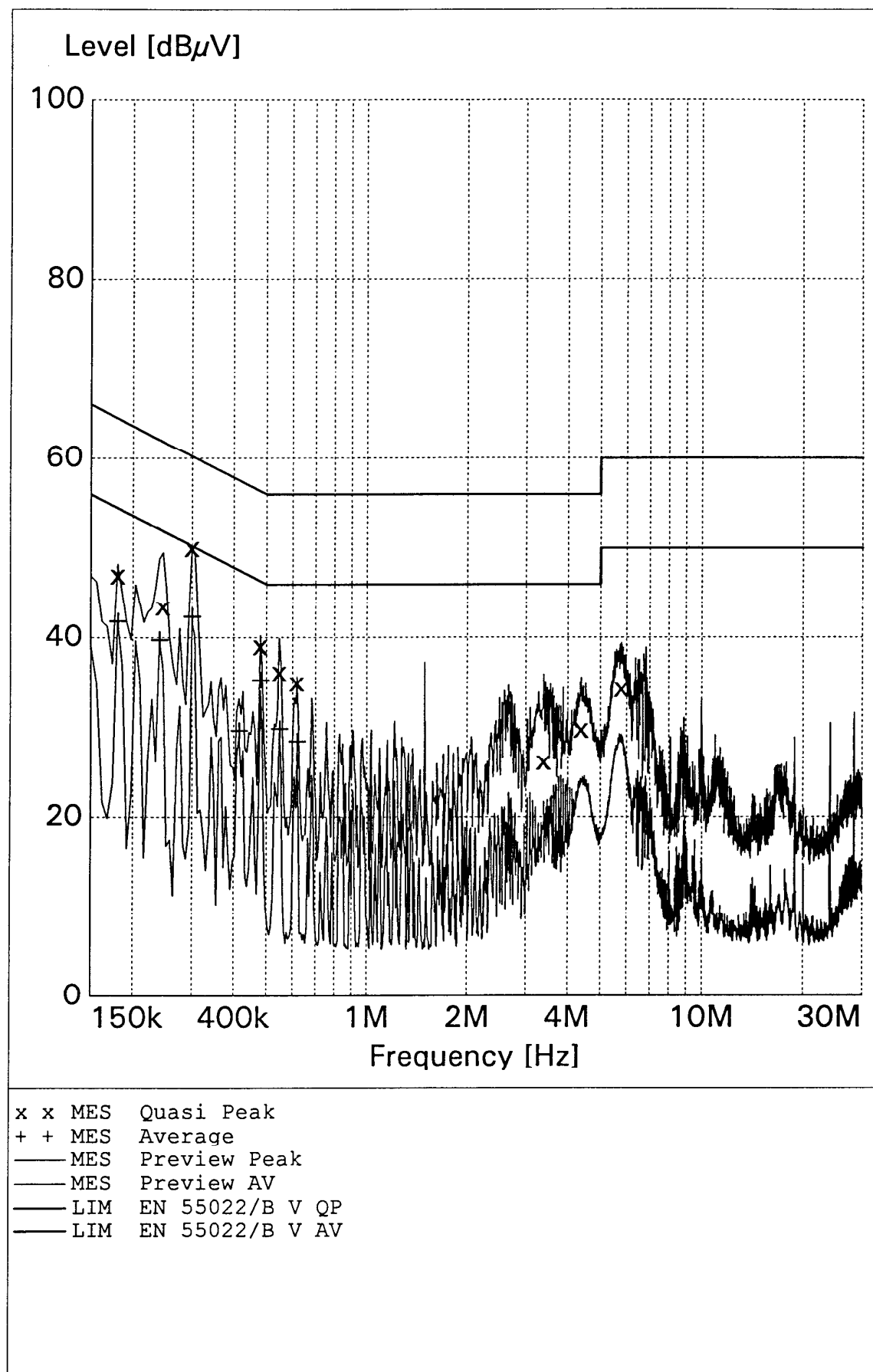
Detector:	Mode:
Curve 1: MaxPeak	MaxHold
Curve 2: Average	MaxHold

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		



MEASUREMENT RESULT: "Quasi Peak"

24.09.99 13:35

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.180000	46.90	10.0	65	17.6	N	GND
0.246000	43.30	10.0	62	18.6	N	GND
0.300000	49.90	10.0	60	10.3	N	GND
0.480000	38.90	10.0	56	17.4	L1	GND
0.546000	36.00	10.0	56	20.0	N	GND
0.618000	34.80	10.0	56	21.2	L1	GND
3.396000	26.00	10.0	56	30.0	L1	GND
4.392000	29.60	10.0	56	26.5	L1	GND
5.790000	34.10	10.0	60	25.9	N	GND

MEASUREMENT RESULT: "Average"

24.09.99 13:35

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.180000	41.70	10.0	55	12.8	N	GND
0.240000	39.60	10.0	52	12.5	N	GND
0.300000	42.20	10.0	50	8.0	N	GND
0.414000	29.50	10.0	48	18.1	N	GND
0.480000	35.20	10.0	46	11.1	N	GND
0.546000	29.70	10.0	46	16.3	L1	GND
0.618000	28.30	10.0	46	17.7	L1	GND

**Conducted noise according to:
EN 55022 class B**

EUT: Scenic 662 (DT6), D1171-A10, PIII 600 MHz
Manufacturer: Siemens AG
Operating Condition: Scroll "H" 1024x768x85Hz, HD + CD + LAN-Test, PSU: ASTEC
Test Site: Siemens AG Augsburg SK1
Operator: R. Schaufler
Configuration: Full config. - Monitor powered extern, FSB 100 MHz,
Comment: Monitor: MCM 1707
Start of Test: 24.09.99 / 13:41:53

SCAN TABLE: "Volt_015-30MHZ"

Unit: dBµV

Detector: Mode:

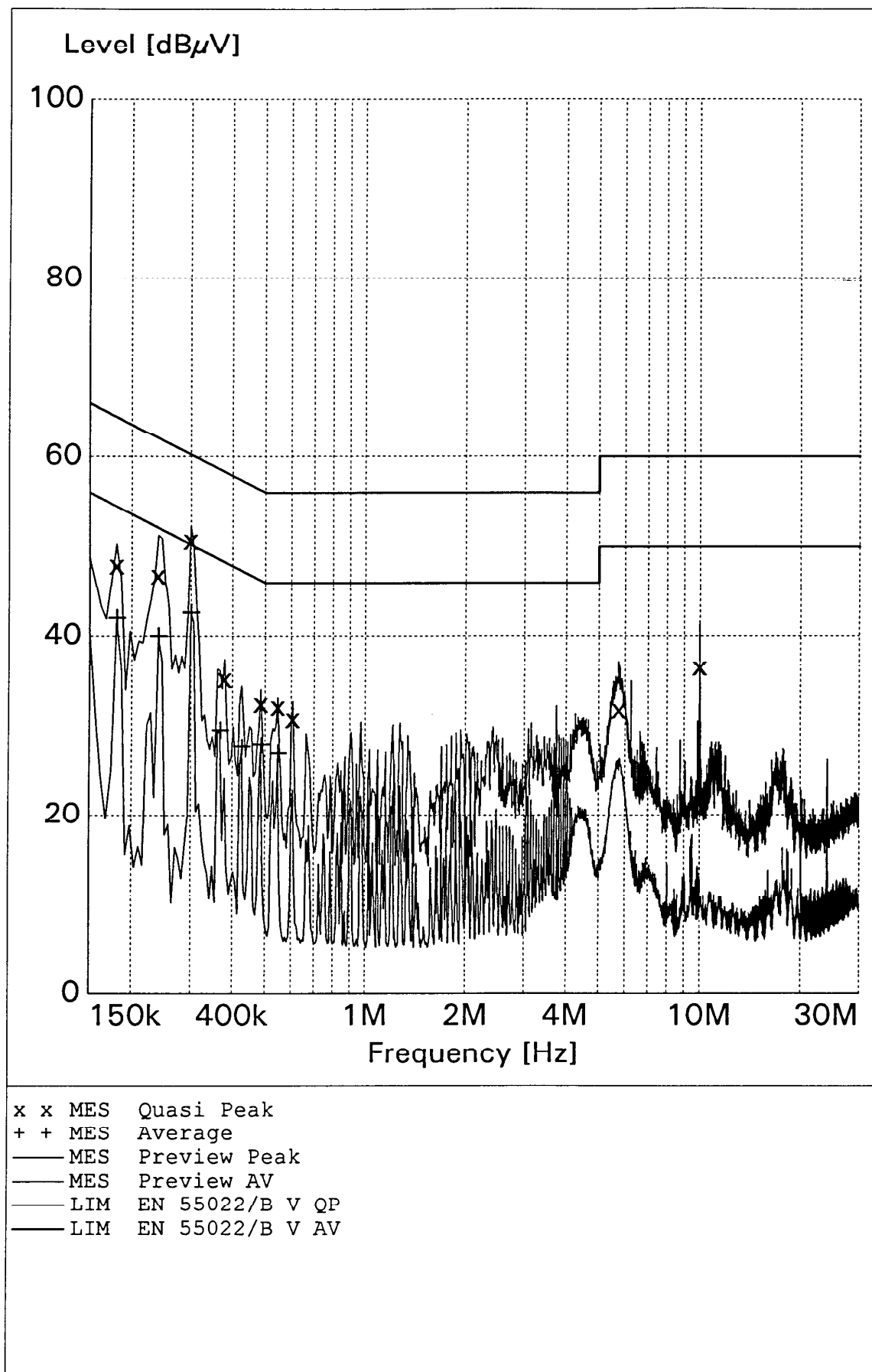
Curve 1: MaxPeak MaxHold
Curve 2: Average MaxHold

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		



MEASUREMENT RESULT: "Quasi Peak"

24.09.99 13:56

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.180000	47.80	10.0	65	16.7	N	GND
0.240000	46.70	10.0	62	15.4	N	GND
0.300000	50.60	10.0	60	9.6	N	GND
0.378000	35.00	10.0	58	23.3	N	GND
0.486000	32.30	10.0	56	23.9	L1	GND
0.546000	31.90	10.0	56	24.1	N	GND
0.606000	30.60	10.0	56	25.4	L1	GND
5.742000	31.60	10.0	60	28.4	N	GND
9.996000	36.40	10.0	60	23.6	N	GND

MEASUREMENT RESULT: "Average"

24.09.99 13:56

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.180000	41.90	10.0	55	12.6	N	GND
0.240000	39.90	10.0	52	12.2	N	GND
0.300000	42.50	10.0	50	7.7	N	GND
0.366000	29.40	10.0	49	19.2	N	GND
0.426000	27.50	10.0	47	19.8	L1	GND
0.486000	27.70	10.0	46	18.5	L1	GND
0.546000	26.80	10.0	46	19.3	L1	GND
3.816000	24.30	10.0	46	21.7	L1	GND

Radiated emission according to:

to EN55022 class B

EUT: Scenic 662 (DT6), D1171-A10, PIII 600 MHz
Manufacturer: Siemens AG
Operating Condition: Scroll "H" 1024x768/85Hz HD/CD-Test, PSU: ASTEC
Test Site: Siemens-Augsburg (Semi-anechoic chamber 10m)
Operator: M. Heuser
Configuration: FSB 100MHz, Monitor: MCM 1707
Comment:
Start of Test: 21.09.99 / 16:53:19

SCAN TABLE: "10m/30-1000"

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

Detector: Mode:

Curve 1: MaxPeak ClearWrite

Subrange 1:

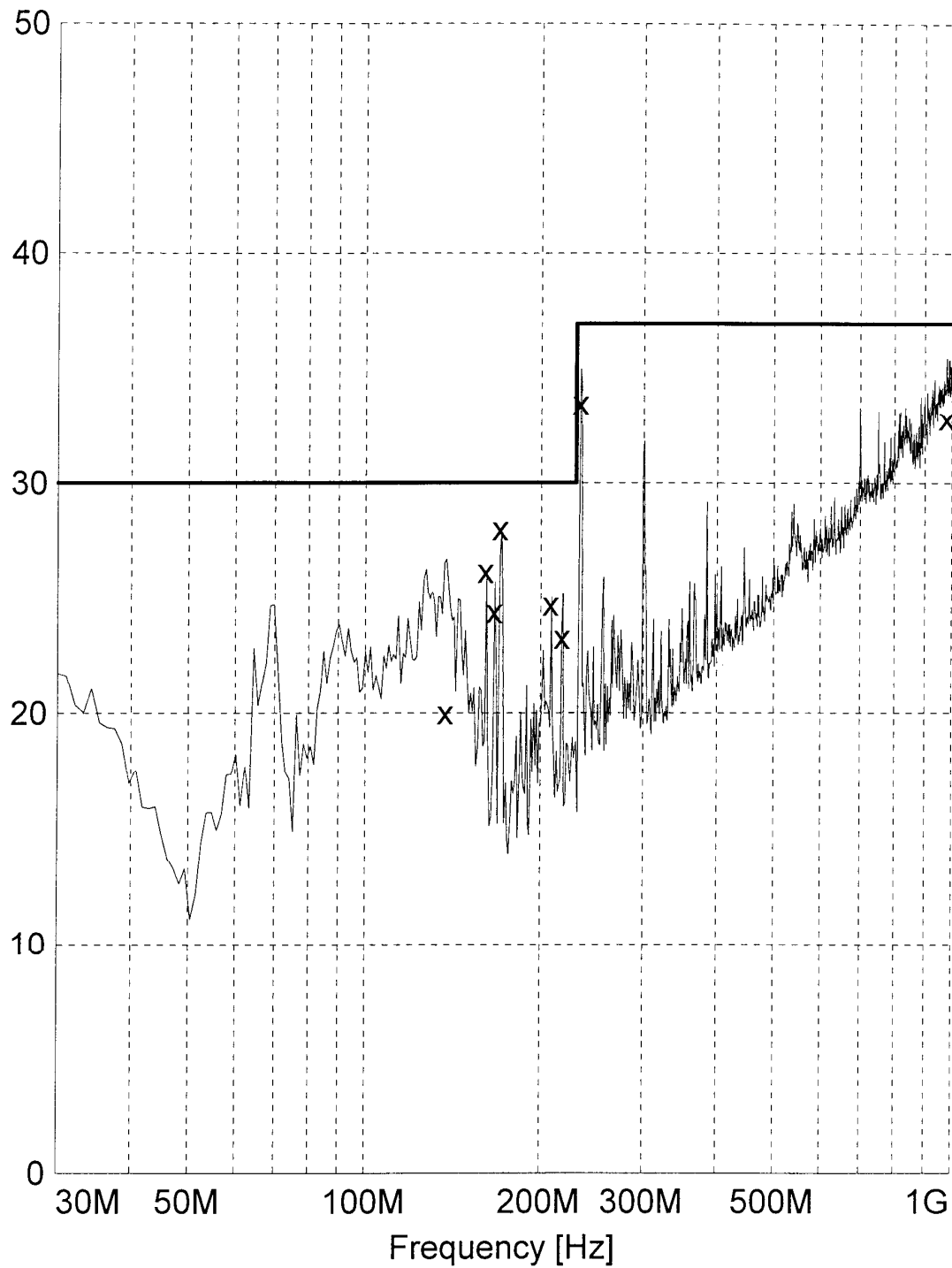
Start Frequency: 30.0 MHz Step Size: 30.0 kHz
Stop Frequency: 1.0 GHz
Measure Time: 10.0 ms
IF Bandwidth: 120 kHz

Receiver: ESXI Transducer: CBL6111 cal. 5/99
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"

21.09.99 17:42

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarisation
137.070000	20.00	12.5	30.0	10.0	100.0	150.00	VERTICAL
160.680000	26.20	11.0	30.0	3.8	100.0	90.00	VERTICAL
166.200000	24.40	10.6	30.0	5.6	100.0	0.00	VERTICAL
170.130000	28.00	10.4	30.0	2.0	100.0	90.00	VERTICAL
207.930000	24.70	9.9	30.0	5.3	100.0	150.00	VERTICAL
217.350000	23.30	10.1	30.0	6.7	100.0	150.00	VERTICAL
233.520000	33.50	11.5	37.0	3.5	100.0	0.00	VERTICAL
979.080000	32.80	28.6	37.0	4.2	220.0	239.00	HORIZONTAL

Radiated emission according to:
to EN55022 class B

EUT: Scenic 662 (DT6), D1171-A10; PIII 600 MHz
Manufacturer: Siemens AG
Operating Condition: Scroll "H" 1024x768/85Hz HD/CD-Test, PSU: ASTEC
Test Site: Siemens-Augsburg (Semi-anechoic chamber 10m)
Operator: A. Siebenhütter
Configuration:
Comment:
Start of Test: 20.09.99 / 10:35:54

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:

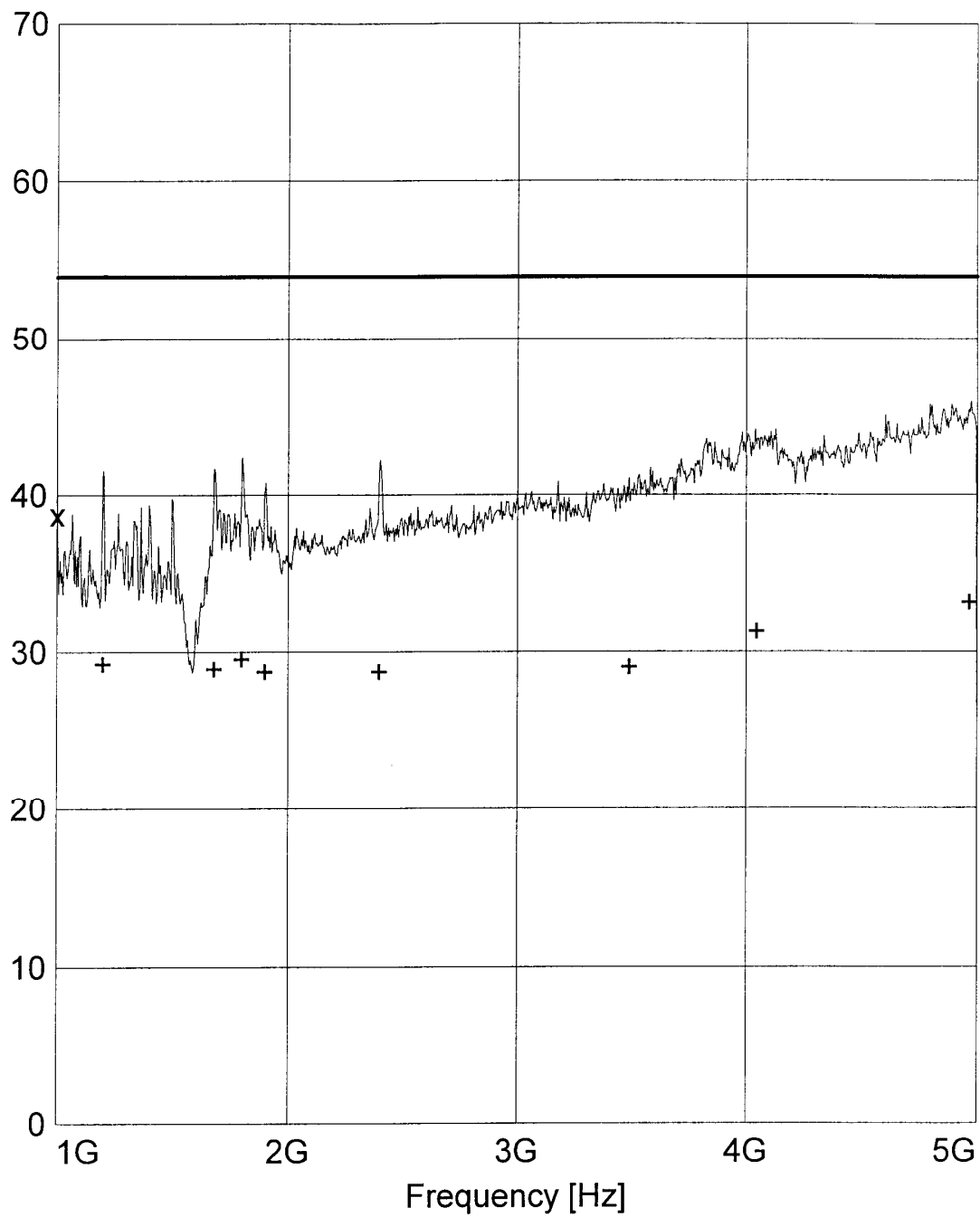
Start Frequency: 1.0 GHz Step Size: 300.0 kHz
Stop Frequency: 5.0 GHz
Measure Time: 10.0 ms
IF Bandwidth: 1 MHz

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]



x x MES PDP9E0_fin QP
 + + 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: "PDP9E0_fin QP"

30.09.99 15:06

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarisation
1000.600000	38.80	7.9	53.9	15.1	100.0	180.00	HORIZONTAL

MEASUREMENT RESULT: "Average"

30.09.99 15:06

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarisation
1198.600000	29.20	8.3	53.9	24.7	180.0	180.00	HORIZONTAL
1678.300000	28.90	10.6	53.9	25.0	140.0	330.00	VERTICAL
1797.700000	29.50	10.9	53.9	24.4	100.0	330.00	VERTICAL
1898.200000	28.70	10.8	53.9	25.2	100.0	330.00	VERTICAL
2396.500000	28.70	13.4	53.9	25.2	100.0	330.00	VERTICAL
3490.300000	29.00	15.2	53.9	24.9	220.0	29.00	HORIZONTAL
4045.000000	31.20	18.4	53.9	22.7	260.0	210.00	VERTICAL
4966.600000	33.20	19.6	53.9	20.7	100.0	150.00	VERTICAL

**Conducted noise according to:
EN 55022 class B**

EUT: Scenic 662 (DT6) - D1171-A10 - PIII 600 MHz
Manufacturer: Siemens AG
Operating Condition: Scroll "H" 1024x768x85Hz - HD+CD+LAN-Test - PSU: Minebea
Test Site: Siemens AG Augsburg SK2
Operator: R. Schaufler
Configuration: Full config. - Monitor powered via PC Outlet
Comment: Monitor MCM 17F1
Start of Test: 20.10.99 / 07:46:59

SCAN TABLE: "Volt_015-30fin"

Unit: dBµV

Detector: Mode:

Curve 1: MaxPeak MaxHold
Curve 2: Average MaxHold

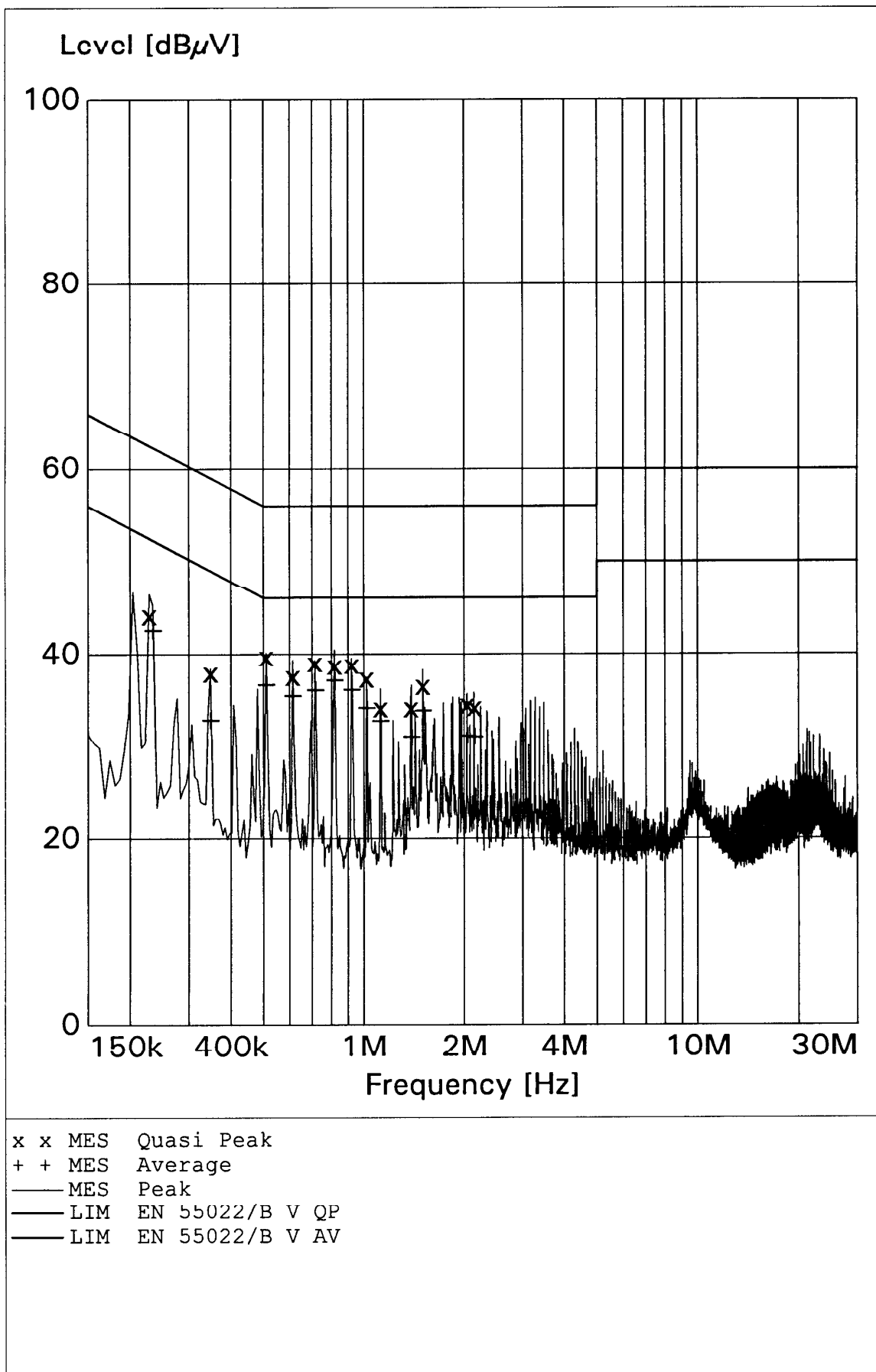
Subrange 1:

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: Single
Curve 2: On Stop Mark: Off
Stop Message: Off
Stop Message:



MEASUREMENT RESULT: "Quasi Peak"

20.10.99 08:10

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.228000	44.00	10.0	62.5	18.5	N	GND
0.348000	37.80	10.0	59.0	21.2	N	GND
0.510000	39.60	10.0	56.0	16.4	N	GND
0.612000	37.40	10.0	56.0	18.6	L1	GND
0.714000	38.90	10.0	56.0	17.1	N	GND
0.816000	38.60	10.0	56.0	17.4	L1	GND
0.918000	38.70	10.0	56.0	17.2	N	GND
1.020000	37.20	10.0	56.0	18.7	N	GND
1.122000	34.00	10.0	56.0	22.0	N	GND
1.386000	34.00	10.0	56.0	22.0	N	GND
1.506000	36.40	10.0	56.0	19.6	N	GND
2.046000	34.40	10.0	56.0	21.6	N	GND
2.148000	34.10	10.0	56.0	21.9	L1	GND

MEASUREMENT RESULT: "Average"

20.10.99 08:10

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.234000	42.50	10.0	52.3	9.8	N	GND
0.348000	32.80	10.0	49.0	16.2	N	GND
0.510000	36.60	10.0	46.0	9.3	L1	GND
0.612000	35.40	10.0	46.0	10.6	L1	GND
0.714000	36.00	10.0	46.0	10.0	L1	GND
0.816000	37.10	10.0	46.0	8.8	L1	GND
0.918000	36.10	10.0	46.0	9.8	L1	GND
1.020000	34.10	10.0	46.0	11.8	N	GND
1.122000	32.70	10.0	46.0	13.2	L1	GND
1.392000	31.00	10.0	46.0	15.0	L1	GND
1.506000	33.80	10.0	46.0	12.2	N	GND
2.046000	31.10	10.0	46.0	14.9	L1	GND
2.148000	31.00	10.0	46.0	15.0	N	GND

Conducted noise according to:
EN 55022 class B

EUT: Scenic 662 (DT6) - D1171-A10 - PIII 600 MHz
Manufacturer: Siemens AG
Operating Condition: Scroll "H" 1024x768x85Hz - HD+CD+LAN-Test - PSU: Minebea
Test Site: Siemens AG Augsburg SK2
Operator: R. Schaufler
Configuration: Full config. - Monitor powered extern
Comment: Monitor MCM 17Pl
Start of Test: 20.10.99 / 08:23:21

SCAN TABLE: "Volt_015-30fin"
Unit: dBµV

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

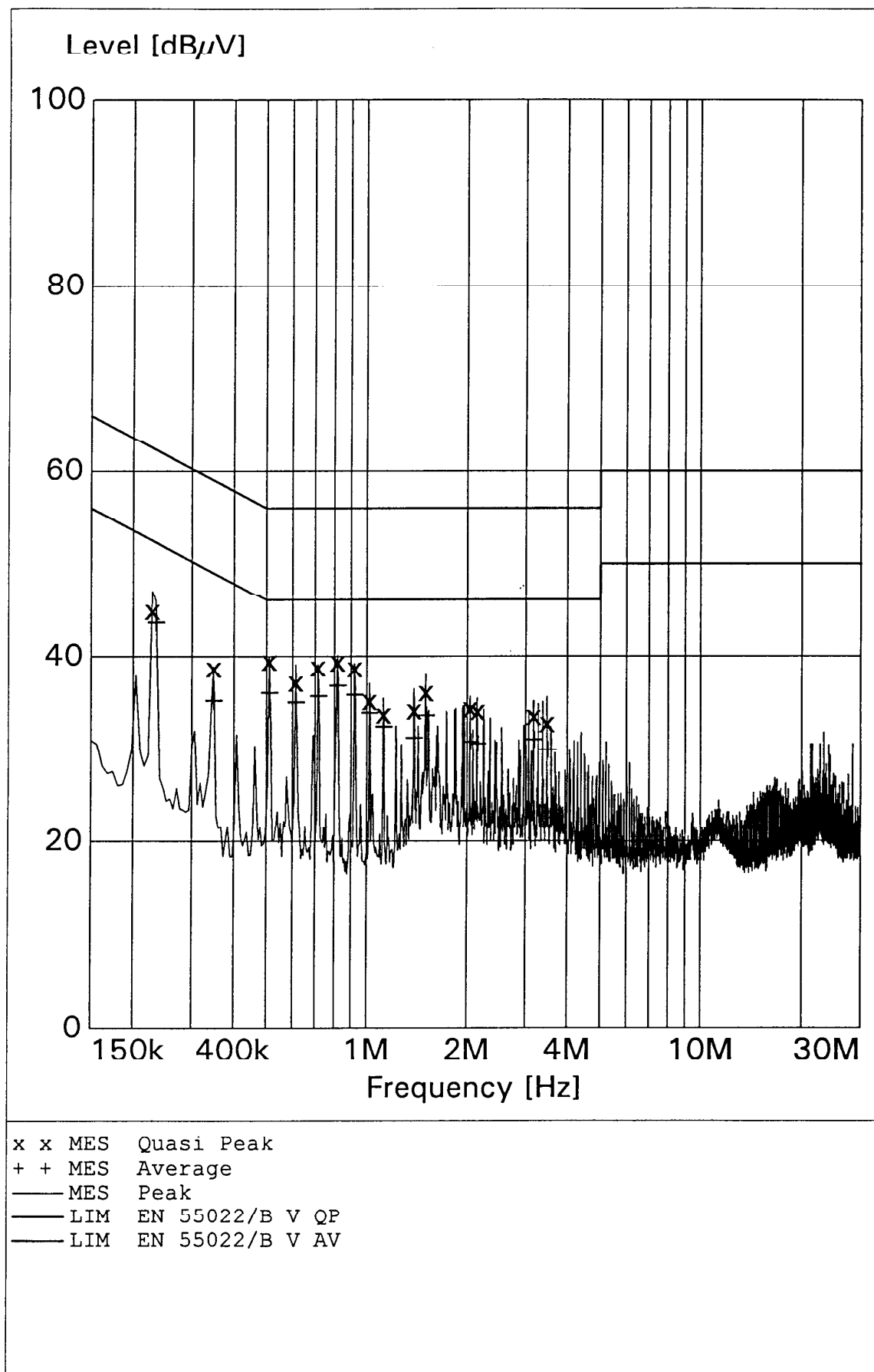
Subrange 1:

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:	Single
Curve 2:	On	Stop Mark:	Off
		Stop Message:	Off
		Stop Message:	Off



MEASUREMENT RESULT: "Quasi Peak"

20.10.99 08:47

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.228000	44.80	10.0	62.5	17.7	N	GND
0.348000	38.60	10.0	59.0	20.4	N	GND
0.510000	39.40	10.0	56.0	16.6	N	GND
0.612000	37.10	10.0	56.0	18.9	L1	GND
0.714000	38.70	10.0	56.0	17.2	N	GND
0.816000	39.30	10.0	56.0	16.7	N	GND
0.918000	38.60	10.0	56.0	17.4	N	GND
1.020000	35.10	10.0	56.0	20.9	N	GND
1.122000	33.70	10.0	56.0	22.2	L1	GND
1.386000	34.10	10.0	56.0	21.9	N	GND
1.506000	36.00	10.0	56.0	20.0	N	GND
2.046000	34.30	10.0	56.0	21.7	L1	GND
2.148000	34.00	10.0	56.0	22.0	L1	GND
3.168000	33.50	10.0	56.0	22.5	N	GND
3.474000	32.70	10.0	56.0	23.2	L1	GND

MEASUREMENT RESULT: "Average"

20.10.99 08:47

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.234000	43.60	10.0	52.3	8.7	N	GND
0.348000	35.20	10.0	49.0	13.8	N	GND
0.510000	36.00	10.0	46.0	10.0	L1	GND
0.612000	35.00	10.0	46.0	11.0	L1	GND
0.714000	35.70	10.0	46.0	10.2	L1	GND
0.816000	36.80	10.0	46.0	9.2	L1	GND
0.918000	35.80	10.0	46.0	10.2	L1	GND
1.020000	33.90	10.0	46.0	12.1	N	GND
1.122000	32.40	10.0	46.0	13.6	N	GND
1.386000	31.20	10.0	46.0	14.8	N	GND
1.506000	33.60	10.0	46.0	12.3	N	GND
2.046000	30.80	10.0	46.0	15.2	L1	GND
2.148000	30.60	10.0	46.0	15.4	L1	GND
3.168000	31.00	10.0	46.0	15.0	L1	GND
3.474000	29.90	10.0	46.0	16.1	N	GND

**Radiated emission according to:
to EN55022 class B**

EUT: Scenic 662 (DT6) - D1171-A100 - PIII 600 MHz - FSB100
Manufacturer: Siemens AG
Operating Condition: Scroll "H" 1024x768x85Hz - HD+CD-Test - PSU: E425-V20 Minebea
Test Site: Siemens Augsburg (Semi-anechoic chamber 10m)
Operator: A. Siebenhütter
Configuration: Full config.
Comment: MCM 1707 NTD
Start of Test: 05.10.99 / 14:26:46

SCAN TABLE: "10m/30-1000"

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

Detector: Mode:

Curve 1: MaxPeak ClearWrite

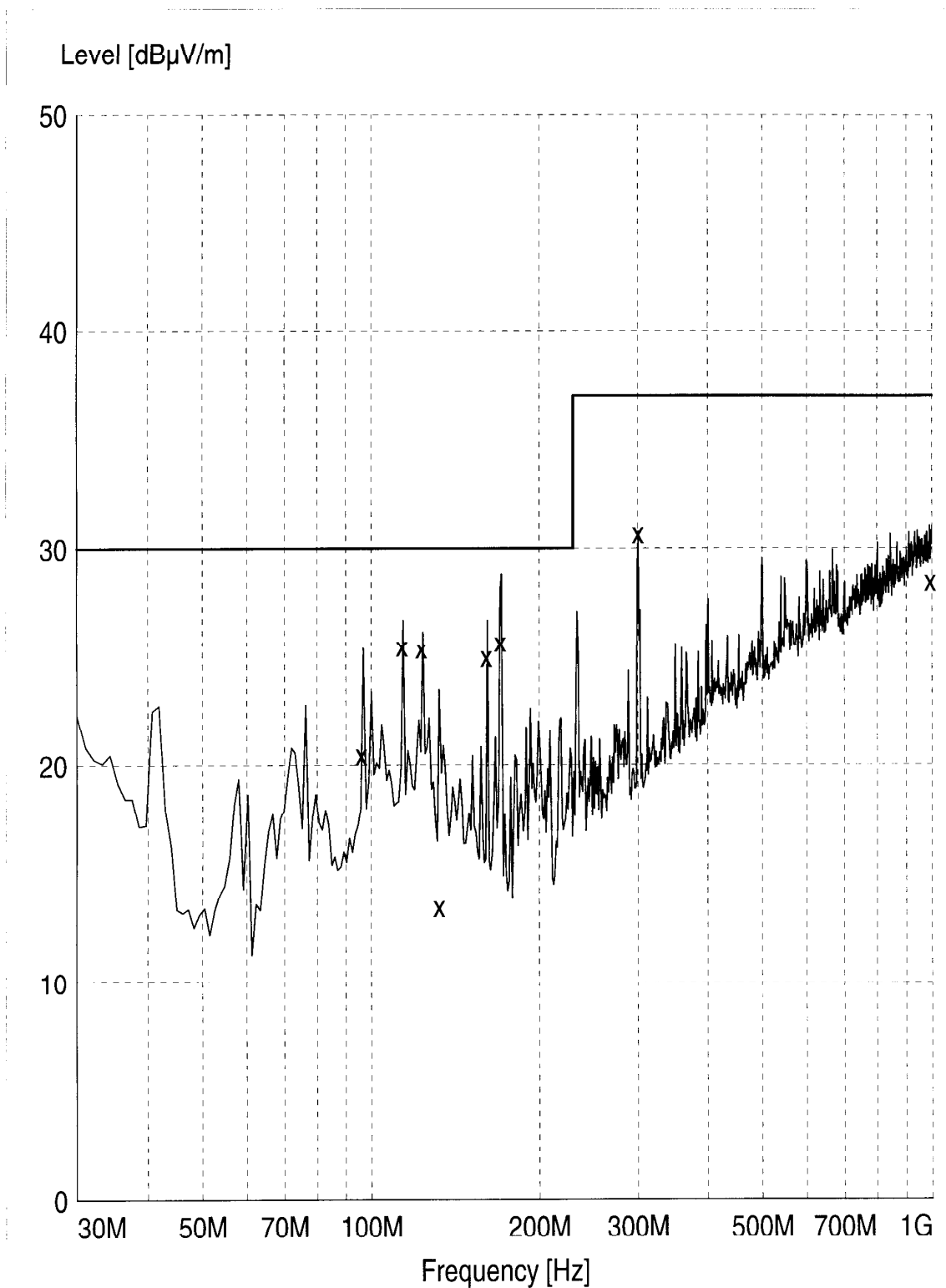
Subrange 1:

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. 8/99
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:



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

MEASUREMENT RESULT: "Quasi Peak"

05.10.99 16:11

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarisation
96.030000	20.50	10.6	30.0	9.5	160.0	119.00	VERTICAL
113.400000	25.50	12.5	30.0	4.5	160.0	150.00	VERTICAL
122.880000	25.40	12.4	30.0	4.6	100.0	210.00	VERTICAL
132.210000	13.50	12.0	30.0	16.5	100.0	90.00	VERTICAL
160.680000	25.00	10.6	30.0	5.0	100.0	29.00	VERTICAL
170.160000	25.70	10.6	30.0	4.3	100.0	29.00	VERTICAL
300.030000	30.70	14.7	37.0	6.3	100.0	150.00	VERTICAL
991.770000	28.50	24.4	37.0	8.5	280.0	210.00	HORIZONTAL