

MEASUREMENT / TECHNICAL REPORT

Fujitsu Siemens Computers

Model: Personal Computer Scenic DT6

FCC ID: HSSSCENIC6621

Jan. 21, 2000

This report concerns:

☐ Original grant

Class II change

Equipment type:

Personal Computer

Request issue of grant:

Immediately upon completion of review

☐ Defer grant per 47 CFR 0.457(d)(1)(ii) until _____ date _____. Company Name agrees to notify the Commission by _____ date _____ of the intended date of announcement of the product so that the grant can be issued on that date.

Measurement procedure
used:

ANSI C63.4-1992

☐ FCC/OET MP-4(1987)

☐ other _____

Limits on compliance with: CISPR 22 resp. FCC class B

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Engineer: _____

Martin Heuser

Fujitsu Siemens Computers
Personal Computer Scenic DT6

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HSSSCENIC6621

Date: Jan. 21, 2000

Page:
1/39

Table of Contents

1	GENERAL INFORMATION	4
1.1	Product Description	4 - 5
1.2	Related Submittal(s)/Grant(s)	6
1.3	Tested System Details	6 - 9
1.4	Test Methodology	10
1.5	Test Facility	10
1.6	Referenced Rules Sections	10
2	PRODUCT LABELING	11
	Figure 2.1 FCC ID Label: see original grant, date: Oct. 29, 1999	11
	Figure 2.2 Location of Label on EUT: see original grant, date: Oct. 29, 1999	11
3	SYSTEM TEST CONFIGURATION	12
3.1	Justification	12 - 13
3.2	Video Mode Justification	14
3.3	EUT Exercise Software	15
3.4	Special Accessories	15
3.5	Equipment Modifications	16
3.6	Configuration of Tested System	16
	Figure 3.1 Configuration of Tested System	17
4	BLOCK DIAGRAM OF EQUIPMENT UNDER TEST	18
4.1	Block Diagram Description	18
4.2	Clockfrequencies of the EUT	19
4.3	Theory of Operation	19 - 20
	Figure 4.1 Block Diagram	21
5	CONDUCTED EMISSION DATA	22
5.1	Test Procedure	22
5.2	Measured Data: see attached file	22 - 24
5.3	Referenced Rules	25
5.4	Test Instrumentation Used, Conducted Measurement	25

6	RADIATED EMISSION DATA	26
6.1	Test Procedure	26
6.2	Measured Data: see attached file	27 - 29
6.3	Reference Rules Sections	30
6.4	Test Instrumentation Used, Radiated Measurement	30
6.5	Field Strength Calculation	31
6.6	Table of Correction Factors	32 – 35
7	CONDUCTED AND RADIATED MEASUREMENT PHOTOS: see attached files	36
8	EXTERNAL PHOTOS OF EUT: see original grant, date Oct. 29, 1999	37
9	INTERNAL PHOTOS OF EUT: see attached files	38
10	USER MANUAL: see original grant, date Oct. 29, 1999	39

1 GENERAL INFORMATION

1.1 Product Description

The Fujitsu Siemens Computers Scenic DT6 is a compact desktop personal computer. The system board integrates the Pentium Processor, memory, and I/O-technologies. The main system unit is assembled with the Processor Intel Pentium III up to 750 MHz.

Description of the power supplies:

- Power supplies:

ASTEC, model	AA20650 S26113-E425-V30
Minebea, model	SPW1553-1 S26113-E425-V20 (GS2)

Features Overview:

CPU – Intel PGA370 / FCPGA

- 300 - 600 MHz Celeron (Coppermine-128k) with (66/100 MHz) FSB
- up to 750 MHz PIII with 100 / 133 MHz FSB
- Onboard voltage regulator

Main memory

- Two 3,3 V DIMM sockets for 16 MByte up to 512 MByte, support only unbuffered SDRAM DIMMs with 100 MHz (PC100)

Chips on board

- Intel 810e Chip Set
- Analog Devices AD 1881 Audio Codec
- Intel 82559 LAN Controller
- National PC87363 Super I/O

2D/3D Graphics

- 24 Bit 230 MHz RAMDAC
- optional Display Cache
- Dynamic Video Memory (DVM)

AC'97

- Host based Audio with AC'97
- Mono Micro In, Stereo Line In, Stereo CD IN, Stereo Aux In, Game/MIDI Port
- Stereo Line Out (max. 2x0,5 W / 8 Ω)
- Sound via internal system speaker

Communication

- 2 USB ports with 12 MBits/s
- 2 External PS2 ports
- 1 External parallel port
- 1 External serial (COM1) port
- 1 Internal connector for chipcard reader or external serial (COM2) port via wire

LAN – Ethernet Controller

- Intel 82559 with 10/100 MBit/s
- WOL by interesting packets, link status change and Magic-Packet™
- InCom LAN boot and Intel LANdesk Service Agent (LSA) support
- Alert on LAN (AOL)

Storage Devices

- 2 IDE ports for up to 4 IDE devices Support enhanced busmaster ATA66
- One internal Floppy port for two Floppy and one Floppy-Tape drive Support up to 2,88 MByte Floppy

Form factor, slots compatible list

- Micro ATX
- 4 PCI slots
- Compatible to ACPI, APM, AGP, BBS, DMI, IAPC, OnNow, PC99, PCI, WfM

The personal computer is assembled by Siemens PC Systeme GmbH & Co. KG, Bürgermeister-Ulrich-Str. 100, 86199 Augsburg.



Fujitsu Siemens Computers
Personal Computer Scenic DT6

FCC Identifier:
HSSSCENIC6621

Date: Jan. 21, 2000

Page:
5/39

1.2 Related Submittal Grant

N/A

1.3 Tested System Details

The FCC IDs for all equipment, plus description of all cables used in the tested system are:

Pos	Model Number (Serial Number)	FCC ID	Description	Cable Description (length in [cm])
1	Fujitsu Siemens Computers DT6-D1171-A11 (Scenic 662)	HSSSCENIC6621	Personal Computer EUT	unshielded power cord [292]
2	Fujitsu Siemens Computers MCM 17P1 YEDA175949	A3LCSE783	Monitor	unshielded power cord [175] shielded video cable [168]
3	Microsoft Mouse 2.1 A 1825831-00000	C3KKMP1	Mouse	shielded mouse cable [197]
4	Logitech M-UB48 LZA83300052	DZL211137	USB-Mouse	shielded mouse cable [197]

Pos	Model Number (Serial Number)	FCC ID	Description	Cable Description (length in [cm])
5	Fujitsu Siemens Computers S26381-K252-V120 OG6A1NKFGP	HSS01TASTK252	Keyboard	shielded keyboard cable [143]
6	Cherry MY3000USB4A 000468K37	DOC	USB- Keyboard	shielded keyboard cable [143]
7	Hewlett Packard HP 2225C+ (2910S40941)	DSI6XU2225	Printer, parallel I/F	unshielded AC ca- ble [180], shielded centronics cable [190]
8	Hewlett Packard HP 2225D+ (2952S61298)	DSI6XU2225	Printer, serial I/F	unshielded power cord [185], shiel- ded serial cable [190]
8	Labtec AM-32	N/A	Microphone	shielded cable [142]
9	Boeder LT-100	N/A	Headphone	shielded cable [166 + 124]
10	Microsoft Side Winder 3D Pro 02102539	C3KMJ1	Joystick	shielded cable
11	Bay Networks HUB 100BaseT	N/A	HUB	

Pos	Model Number (Serial Number)	FCC ID	Description	Cable Description (length in [cm])
12			Line IN	shielded cable, terminated [192]
	<u>Pos 1 contains:</u>			
a ₁	ASTECC (UK), AA20650 S26113-E425-V30	N/A	Power supply	N/A
a ₂	Minebea SPW1553-1 S26113-E425-V20 GS2	N/A	Power supply	N/A
b	Quantum Fireball QUM: FBCR43A S26361-H447-V100	N/A	Hard disk drive	N/A
c	LITE-ON LTN-382 S26361-H451-V500	DOC	CD-ROM drive	N/A
d	SONY MPF920-C S26361-H303-V500	N/A	Floppy disk drive	N/A
e	Fujitsu Siemens Computers S26361-D1171-A11	N/A	System board	N/A
f	Intel Pentium III 750 MHz	N/A	Processor module	N/A

Pos	Model Number (Serial Number)	FCC ID	Description	Cable Description (length in [cm])
g	Hyundai HYM7V65801 PC100-322-620	N/A	SDRAM	N/A

Remark: position 1a₁ / 1a₂ optional

1.4 Test Methodology

Both, conducted and radiated tests were performed according to the procedures in ANSI C63.4-1992. Radiated testing below 1 GHz was performed at an antenna to EUT distance of 10 meters above 1 GHz at an antenna to EUT distance of 3 meters. All radiated emission measurements were done in an anechoic chamber. Limits for radiated and conducted emission are in compliance with CISPR 22 resp FCC class B.

1.5 Test Facility

The anechoic chamber and conducted measurement facility used to collect the emission data is located at Siemens PC Systeme GmbH & Co. KG, Bürgermeister Ulrich Str. 100, 86199 Augsburg, Germany. This site has been fully described in a report dated January 24, 1997 submitted to your office, and accepted in a letter dated March 03, 1997 (31040/SIT).

1.6 Referenced Rules Sections

N/A

2 PRODUCT LABELING

2.1 FCC ID Label:

see original grant, date: Oct. 29, 1999

2.2 Location of Label on EUT: see attached file

see original grant, date: Oct. 29, 1999

3 SYSTEM TEST CONFIGURATION

3.1 Justification

The system was configured for testing in a maximum fashion (as a customer can use it). Each type of external ports was connected with a peripheral unit (e.g. serial port connected to a serial printer, external keyboard port connected to a keyboard and so on). During radiated emission the monitor was powered via system unit, during conducted emission also the external monitor supply was tested.

The system clock is 100 MHz, the clock frequency was tested with the corresponding worst case processor:

100 MHz clock: Intel Pentium III 750 MHz

The system is provided with two kinds of power supplies:

- ASTEC, AA20650 FSC: S26113-E425-V30
- Minebea, SPW1553-1 FSC: S26113-E425-V20

According both worst case results concernig the test report of the original grant (dated: Oct. 29, 1999) the following configuration has been tested.

Referring to radiated emission the following (worst case) results are applicable:

Minebea PSU:

Frequency range 30 MHz - 1 GHz:

100 MHz clock/Pentium III 750 MHz, video resolution 1024 x 768/85 Hz

Frequency range 1 GHz - 5 GHz:

100 MHz clock/Pentium III 750 MHz, video resolution 1024 x 768/85 Hz

Referring to conducted emission the following (worst case) results are applicable:

Minebea PSU:

100 MHz clock/Pentium III 750 MHz, video resolution 1024 x 768/85 Hz
monitor power via EUT

100 MHz clock/Pentium III 750 MHz, video resolution 1024 x 768/85 Hz
monitor power from peripheral device LISN

3.2 Video mode Justification

The system was tested in video graphic mode 1024 x 768, 85 Hz (worst case of the low performance graphic controller).

The following data are applicable:

radiated emission:

Minebea PSU:

Frequency range 30 MHz - 1 GHz:

100 MHz clock/Pentium III 750 MHz, video resolution 1024 x 768/85 Hz

conducted emission:

Minebea PSU:

100 MHz clock/Pentium III 750 MHz, video resolution 1024 x 768/85 Hz
monitor power via EUT

100 MHz clock/Pentium III 750 MHz, video resolution 1024 x 768/85 Hz
monitor power from peripheral device LISN

3.3 EUT Exercise Software

The EUT exercise program used during radiated and conducted testing was designed to exercise the various system components in a manner similar to typical use.

The used sequence is:

- scrolling "H" with applicable video mode (see 3.2)
- internal Floppy drive writes to the HD and reads back
- internal CD-ROM writes to the HD
- "H`s" are sent to the printer ports
- data is sent to USB ports
- LAN data communication

3.4 Special Accessories

As shown in Figure 3.1, all interface cables used for compliance testing are shielded like normally supplied by the manufacturer. All cable connectors feature integral metal hoods for shielding.

3.5 Equipment Modifications

To achieve compliance to Class B levels, the following modifications were made during compliance testing:

no modifications

Applicant Signature _____ Date _____

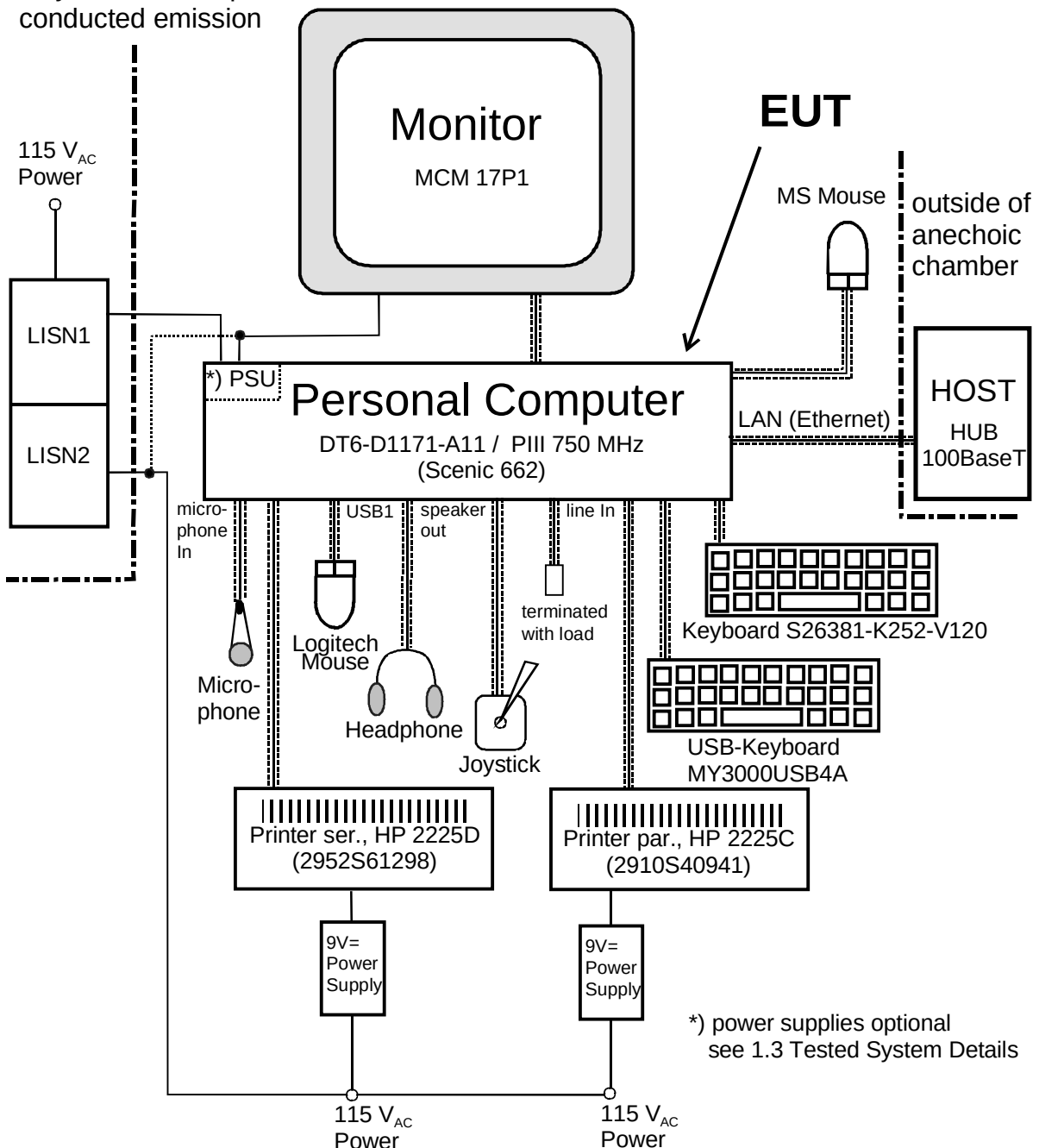
Typed/Printed Name _____ Position _____

3.6 Configuration of Tested System

All necessary tests were carried out like figure 3.1. The system was used according to paragraph 1.1. During test for conducted emission the EUT was connected to a LISN. All peripherals were supplied by a second LISN. The equipment was configured according to ANSI C63.4-1992 Fig 11.

Figure 3.1 Configuration of Tested System

only for test set-up
conducted emission



4 BLOCK DIAGRAM OF EUT

see fig 4.1 page 21

4.1 Block Diagram Description (see fig. 4.1)

The major parts of the system are (fig 4.1).

- System board
- Power supply
- Floppy disk drive
- Hard disk drive
- CD-ROM drive
- Peripheral connector area (keyboard, mouse, ser. 1, parallel port LAN, USB and audio)

The detailed diagram of the system board is shown in fig 4.1

The personal computer works exactly like a traditional P.C..

4.2 Clockfrequencies of EUT

VGA controller	48 MHz
Clock synthesizer	14,318 MHz
Front side bus	66,6/100/133 MHz
Memory	100 MHz
PCI-bus	33,3 MHz
PIIX4 to IDE and USB	33,3 MHz
I/O controller	48 MHz
USB	48 MHz
Display cache	133 MHz
Audio controller	24,576 MHz

4.3 Theory of Operation

The compact desktop PC works exactly as a traditional PC.

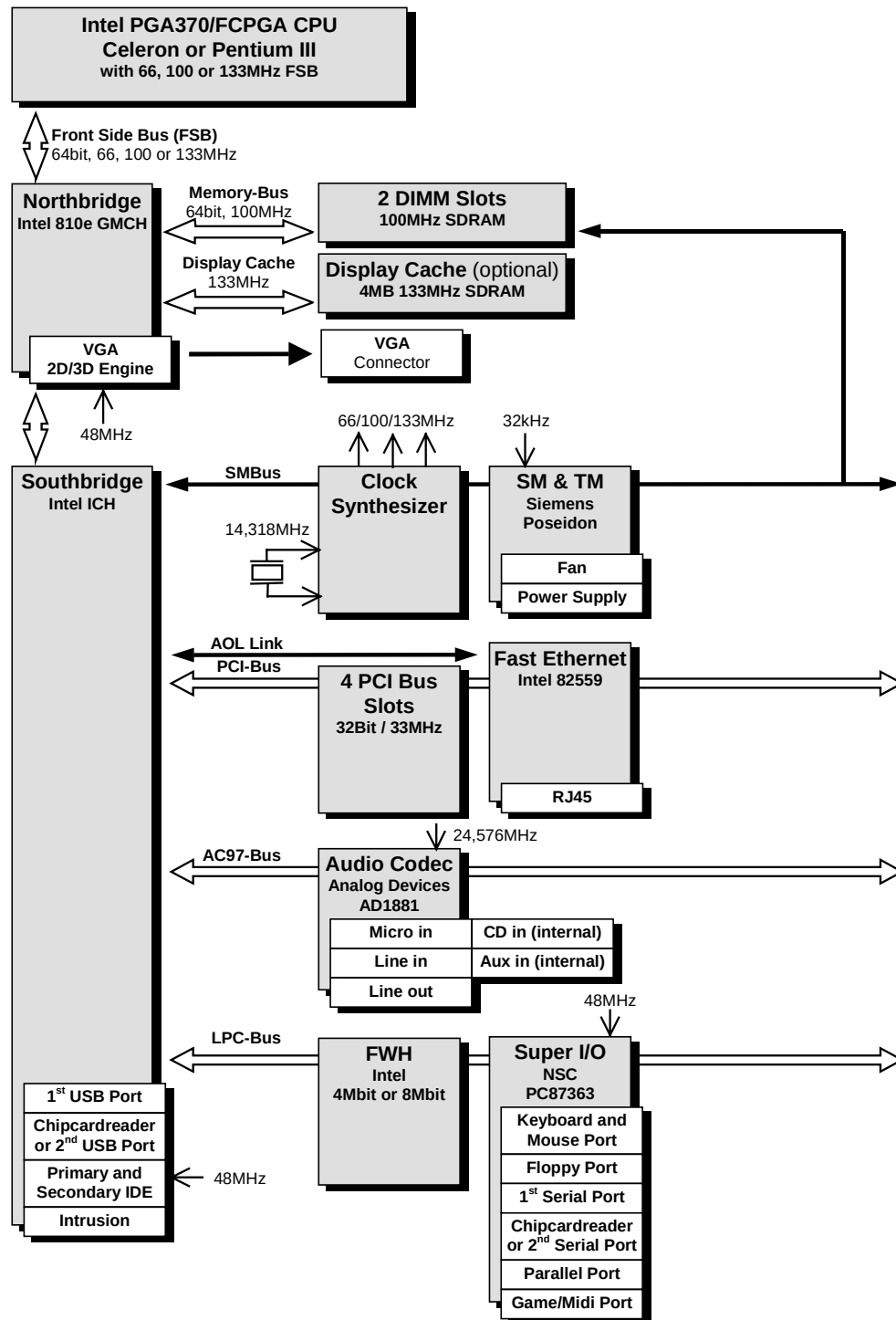
The processors run internally between 233 and 750 MHz, the system clock is 66,6 MHz, 100 MHz or 133 MHz and is multiplied by the processors internally by 3,5, 4,0, 4,5, 5,0, 5,5, 6,0, 7,0 or 7,5.

The highest possible frequencies and the corresponding processors are:

Processor	System clock	factor
233 MHz	66,6 MHz	3,5
266 MHz	66,6 MHz	4,0
300 MHz	66,6 MHz	4,5
333 MHz	66,6 MHz	5,0
366 MHz	66,6 MHz	5,5
350 MHz	100 MHz	3,5
400 MHz	100 MHz	4,0
450 MHz	100 MHz	4,5
500 MHz	100 MHz	5,0

Processor	System clock	factor
550 MHz	100 MHz	5,5
600 MHz	100 MHz	6,0
700 MHz	100 MHz	7,0
733 MHz	133 MHz	5,5
750 MHz	100 MHz	7,5

4.1 Block Diagram of the EUT



5 CONDUCTED EMISSION DATA

5.1 Test Procedure

The initial step in collecting conducted emission data is a Rohde & Schwarz Test Receiver (ESH3). During first scan all data in peak mode is measured, then all significant peaks are explored either in quasi-peak mode or in average mode. In case of low noise (no peak value reaches the quasi peak limit), only average checks are done.

5.2 Measured Data

The conducted emission was measured the following way:

1. Peak noise on L
2. Peak noise on N

During the emission measurement the printers are supplied with power via a second LISN, the monitor was either powered via the system unit or separately.

The worst case results of the corresponding configuration (video resolution, supply modus: monitor via system unit or external) is given next:

Minebea PSU

- a) video resolution 1024 x 768/85 Hz, monitor power via EUT
- b) video resolution 1024 x 768/85 Hz, monitor power from peripheral device LISN

Judgement: Passed by

	Frequency [MHz]	Measured [dB(μV)]	Kind of value	Limit [dB(μV)]	Configuration
neutral	0,714	40,10	QP	56,0	a

	Frequency [MHz]	Measured [dB(μV)]	Kind of value	Limit [dB(μV)]	Configuration
neutral	1,428	40,40	QP	56,0	a
neutral	1,530	40,10	QP	56,0	a
neutral	0,714	37,80	AV	46,0	a
neutral	1,428	38,90	AV	46,0	a
phase	1,530	38,20	AV	46,0	a
neutral	0,612	38,70	QP	56,0	b
neutral	0,714	39,80	QP	56,0	b
neutral	1,428	39,90	QP	56,0	b
neutral	0,714	37,50	AV	46,0	b
neutral	1,428	38,60	AV	46,0	b
neutral	1,530	38,00	AV	46,0	b

AV: average

QP: quasi peak

Test Personnel:

Tester Signature: _____ Date: _____

Printed Name: M. Heuser

Measurement Protocols: see attached file

Minebea PSU:

100 MHz clock/Intel Pentium III 750 MHz

video resolution 1024 x 768/85 Hz

monitor power via EUT

100 MHz clock/Intel Pentium III 750 MHz

video resolution 1024 x 768/85 Hz

monitor power from peripheral device LISN

5.3 Referenced Rules Sections

N/A

5.4 Test Instrumentation Used, Conducted Measurement

Type	Manufacturer/ Model No.	Serial No.	Last Cal.	Cal. Interval
Receiver	ESHS10 Rohde&Schwarz	842884/011	May 99	12 months
Receiver	ESH3 Rohde&Schwarz	879599/019	May 99	12 months
LISN	ESH2-Z5 Rohde&Schwarz	871884/004	May 99	12 months
LISN	ESH3-Z5 Rohde&Schwarz	883650/027	May 99	12 months
Pulse limiter	ESH3-Z2 Rohde&Schwarz	---	May 99	12 months

6 RADIATED EMISSION DATA

6.1 Test Procedure

The radiated emission was measured in two parts:

1. in the frequency range from 30 MHz to 1000 MHz. The bandwidth of the EMI-receiver was set to 120 kHz and the detector was set to peak. During prescan all data in peak mode are accumulated automatically. At final measurement the detector was set to CISPR quasi peak and values above the acceptance line were verified automatically.
2. in the frequency range from 1000 MHz to 5000 MHz. The bandwidth of the EMI-receiver was set to 1 MHz and the detector was set to peak. During prescan all data in peak mode are accumulated automatically. At final measurement the detector was set to average and values above the acceptance line were verified automatically.

Both tests were performed in a semi anechoic chamber, measurements below 1000 MHz in a distance of 10 meters between antenna and EUT, above 1 GHz with a distance of 3 meters between antenna and EUT. During tests the EUT was turned 360° and the actual used receiving antenna was moved from 1 to 4 meters and the antenna polarisation was changed from horizontal to vertical for finding the maximum levels of emission.

For each range one antenna for the whole span was used

1. 30 MHz to 1000 MHz: log.-per antenna
2. 1000 MHz to 5000 MHz: rigid tensor antenna

After automatic tests during manual verification the cables and the equipment were placed and moved within the range of position in order to find the maximum of emission.

6.2 Measured Data

The EUT was measured with the Processor Intel Pentium III 750 MHz in video mode 1024 x 768, 85 Hz. The test results below reflect the worst case with:

Minebea PSU:

a) 100 MHz clock/Intel Pentium III 750 MHz,
video resolution 1024 x 768/85 Hz

Part 1: frequency range 30 MHz - 1000 MHz:

Judgement: Passed by

Frequency [MHz]	Level* [dB(μV/m)]	10 Meter Limit [dB(μV/m)]	Exceeding [dB]	Ant Pol	Height in [m]	Angle in deg
96.81000	22.30	30.000	-7.7	ver	2.00	59.000
147.48000	22.50	30.000	-7.5	hor	4.00	270.000
299.94000	31.20	37.000	-5.8	ver	1.00	330.000
432.06000	31.40	37.000	-5.6	hor	3.00	180.000
499.92000	28.60	37.000	-8.4	ver	4.00	180.000
721.62000	33.70	37.000	-3.3	ver	2.00	180.000

all levels are quasi-peak levels

*The correction factor is considered automatically by the test receiver.
A table of correction factors is listed in paragraph 7.4.

Part 2: frequency range 1 GHz - 5 GHz:

Judgement: Passed by

Frequency [MHz]	Level* [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Exceed Mark	Height [cm]	Azimuth [deg]	Ant Pol
1296.10000	32.40	53.9	21.5		200.00	119.00	ver
1595.80000	33.30	53.9	20.6		100.00	330.00	ver

Frequency [MHz]	Level* [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Exceed Mark	Height [cm]	Azimuth [deg]	Ant Pol
1647.70000	33.40	53.9	20.5		100.00	0.00	ver
1689.70000	32.70	53.9	21.2		100.00	330.00	ver
1789.00000	31.40	53.9	22.5		100.00	300.00	ver
4970.20000	33.20	53.9	20.7		200.00	239.00	hor

all levels are average levels

*The correction factor is considered automatically by the test receiver.
A table of correction factors is listed in paragraph 7.4.

Test Personnel:

Tester Signature: _____ Date: _____

Printed Name: M. Heuser

Measurement Protocols: see attached file

Minebea PSU:

Frequency range 30 MHz - 1 GHz:

100 MHz clock/Intel Pentium III 750 MHz

video resolution 1024 x 768/85 Hz

Frequency range 1 GHz - 5 GHz:

100 MHz clock/Intel Pentium III 750 MHz

video resolution 1024 x 768/85 Hz

6.3 Referenced Rules Sections

N/A

6.4 Test Instrumentation Used, Radiated Measurement

Type	Manufacturer/ Model No.	Serial No.	Last Cal.	Cal. Interval
Receiver	ESMI Rohde&Schwarz	840607/006	May 99	15 months
Antenna	CBL 6111 Chase	1345	May 99	12 months
Antenna	CBL 6112 Chase	2041	Aug 99	15 months
Active Ridged antenna	Tensor 4105 Rohde&Schwarz	2063	Dec 99	15 months

6.5 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor automatically to the measured value. The display of the Receiver shows the corrected value. The complete table of correction factors is given on next page. The basic equation with a sample calculation is as follows:

$$\mathbf{FS = RA + AF + CF}$$

where FS = Field Strength

AF = Antenna Factor (incl. Preamplifier factor)

CF = Cable Attenuation Factor

Assume a receiver reading of 28,5 dB μ V is obtained. The Antenna Factor of 10,5 and a Cable Factor of 1,3 is added, giving a field strength of 40,3 dB μ V/m.

$$FS = 28,5 + 10,5 + 1,3 = 40,3 \text{ dB}\mu\text{V/m}$$

The 40,3 dB μ V/m value can be mathematically converted to its corresponding level in μ V/m.

Level in μ V/m =
Common Antilogarithm [(40,3 dB μ V/m)/20] =

103,5 μ V/m

6.6 Table of Correction Factors

Frequency range: 30 MHz to 1000 MHz (Antenna CBL6112)

Frequency [MHz]	Correction Bilog Antenna [dB]	Correction Cable [dB]	Correction Antenna + Cable [dB]
30,0	17,80	0,65	18,45
35,0	15,10	0,67	15,77
40,0	12,40	0,68	13,08
45,0	9,80	0,73	10,53
50,0	7,70	0,74	8,44
55,0	6,20	0,82	7,02
60,0	5,10	0,84	5,94
70,0	5,00	0,90	5,90
80,0	6,60	0,95	7,55
90,0	8,50	0,99	9,49
100,0	10,30	1,10	11,40
120,0	11,40	1,14	12,54
140,0	10,40	1,27	11,67
160,0	9,40	1,35	10,75
180,0	8,50	1,45	9,95
200,0	9,10	1,51	10,61
250,0	11,80	1,71	13,51
300,0	13,00	1,84	14,84
350,0	14,10	2,00	16,10
400,0	16,00	2,18	18,18
450,0	16,30	2,35	18,65
500,0	17,10	2,43	19,53
550,0	18,80	2,62	21,41
600,0	18,60	2,73	21,33

Frequency [MHz]	Correction Bilog Antenna [dB]	Correction Cable [dB]	Correction Antenna + Cable [dB]
650,0	19,00	2,88	21,88
700,0	19,10	2,91	22,01
750,0	19,80	3,01	22,81
800,0	19,80	3,21	23,01
850,0	20,40	3,32	23,72
900,0	20,50	3,40	23,90
950,0	20,80	3,49	24,29
1000,0	21,10	3,69	24,79

Frequency range: 1 GHz to 5 GHz

Frequency [GHz]	Correction Tensor Antenna with Pre- amplifier [dB]	Correction Cable [dB]	Correction Antenna + Cable [dB]
1,0	5,70	1,62	7,32
1,1	4,80	1,68	6,48
1,2	5,10	1,75	6,85
1,3	5,00	1,80	6,80
1,4	5,10	1,96	7,06
1,5	5,90	2,00	7,90
1,6	5,60	2,15	7,75
1,7	6,70	2,30	9,00
1,8	6,60	2,32	8,92
1,9	5,90	2,35	8,25
2,0	7,20	2,44	9,64
2,1	7,30	2,62	9,92
2,2	7,40	2,75	10,15
2,3	8,40	2,70	11,10
2,4	8,00	2,69	10,69
2,5	9,30	2,65	11,95
2,6	8,70	2,75	11,45
2,7	8,70	2,92	11,62
2,8	9,00	2,98	11,98
2,9	8,60	3,10	11,70
3,0	9,50	3,12	12,62
3,1	9,20	2,37	11,57
3,2	8,60	2,40	11,00

Frequency [GHz]	Correction Tensor Antenna with Pre- amplifier [dB]	Correction Cable [dB]	Correction Antenna + Cable [dB]
3,3	8,70	2,42	11,12
3,4	9,70	2,43	12,13
3,5	9,70	2,46	12,16
3,6	10,40	2,43	12,83
3,7	10,80	2,45	13,25
3,8	11,50	2,47	13,97
3,9	11,90	2,49	14,39
4,0	10,90	2,46	13,36
4,1	10,10	2,48	12,58
4,2	8,80	2,49	11,29
4,3	8,70	2,51	11,21
4,4	8,50	2,53	11,03
4,5	8,70	2,54	11,24
4,6	9,50	2,57	12,07
4,7	10,10	2,57	12,67
4,8	11,10	2,59	13,69
4,9	11,50	2,60	14,10
5,0	11,60	2,62	14,22

7 Conducted And Radiated Emission Measurement Photos: see attached files

7.1 Test set-up, conducted emission, front side view

7.2 Test set-up, conducted emission, rear side view

7.3 Test set-up, radiated emission, front side view

7.4 Test set-up, radiated emission, rear side view

8 External Photos of EUT

see original grant, date: Oct. 29, 1999



**Fujitsu Siemens Computers
Personal Computer Scenic DT6**

FCC Identifier:
HSSSCENIC6621

Date: **Jan. 21, 2000**

Page:
37/39

9 Internal Photos of EUT: see attached files

9.1 Inside view of EUT

9.2 Processor, top side view

9.3 Processor, rear side view

10 User Manual

see original grant, date: Oct. 29, 1999