

Blue

Generic Twin, Flat

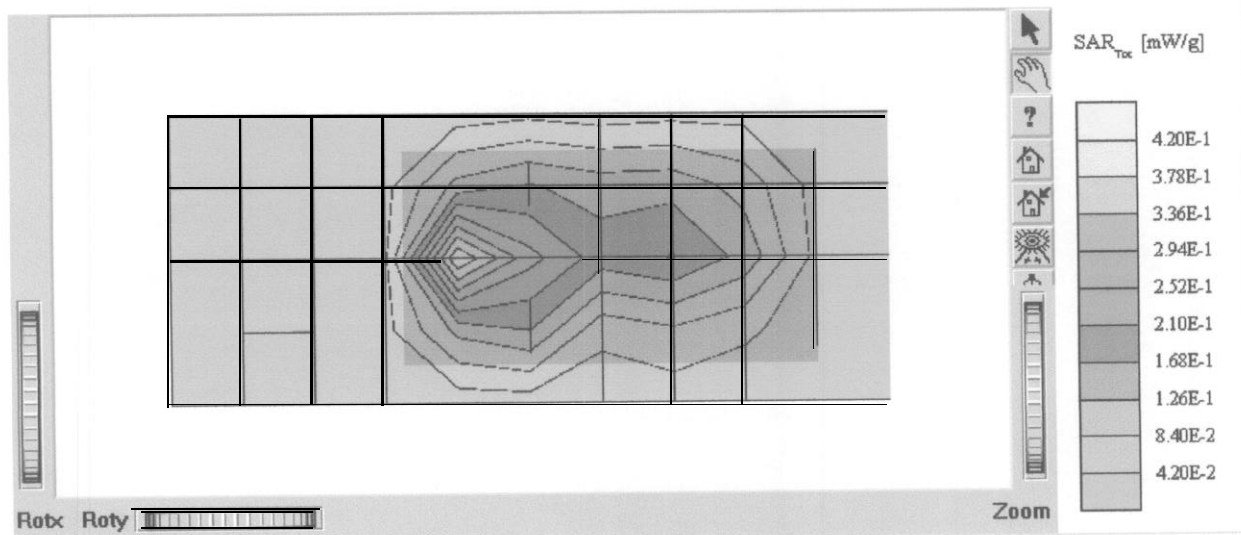
Probe: ET3DV5/DAE3 - 1332; ConvF(3.58,3.58,3.58); Crest factor: 1.2; Brain 2400MHz: $\sigma = 2.35 \text{ mho/m}$ $\epsilon_r = 34.4$ $\rho = 1.04 \text{ g/cm}^3$
:..0

Fig. 7: SAR distribution plot with maximum local SAR value (position: top; frequency: 2402 MHz, ch. 0x).

The Siemens Gigaset B420 data complies with the American Standard ANSI C95.1 [ANSI 1992]. The tests were performed according to the Federal Communications Commission (FCC) Guidelines [FCC 1997].

Note: The measured SAR values depend on the material parameters. Therefore the material parameters must be enclosed in all copies and publications of these results.

7 Appendix

7.1 Administrative Data

Date of measurement: October 24, 2000 by: André van den Bosch
Data stored: Siemens_6575_115

7.2 Device under Test and Test Conditions

MTE: Siemens Gigaset B420data
MTE: #1005, Vers. 3.01, 1E3008103
Date of receipt of MTE: October 24, 2000
Standard: Bluetooth
Frequency Tx: low end: ch. 0x (2402 MHz), center: ch. 27x (2441 MHz),
high end: ch. 4Ex (2480 MHz)
Power: max. 19 dBm (Duty cycle: 5/6)

7.3 DASY Options

Software version: DASY V3.1c
Probe: ET3DV5 SN: 1332
Validation: October 24, 2000, dipole validation kit: D1800V2 #: 206
Phantom: Schmid & Partner generic twin phantom, left and right hand position

7.4 Material Measurement System

Type: HP85070B
Software version: HP85070 Rev. B.01.05 1993
VNA: HP8753D (6 GHz option)



Material parameters:

	FCC recommended (muscle tissue)	measured
Relative permittivity ϵ_r	53.6	34.4 ± 6.0
Conductivity σ	1.81 S/m	(2.35 ± 0.37) S/m
Mass density ρ	1.04 g/cm ³	1.04 g/cm ³

Table 7: Parameters of the tissue simulating liquid at 2450 GHz.

Note: The measured SAR values depend on the material parameters. If the target values do not match with the actual dielectric parameters of the tissue simulating liquid, the following rules apply:

1. If the measured permittivity is lower than the recommended permittivity the measured SAR will be always higher than the real SAR.
2. If the measured conductivity is higher than the recommended conductivity the measured SAR will be always higher than the real SAR.

7.5 Environment

Ambient temperature: 20-23 °C
Tissue simulating liquid: 20-23 °C



7.6 Data sheets

**Schmid & Partner
Engineering AG**

Staffelstrasse 8, 8045 Zurich, Switzerland, Telefon +41 1 280 08 60, Fax +41 1 280 08 64

Calibration Certificate**Dosimetric E-Field Probe**

Type:

ET3DV5

Serial Number:

1332

Place of Calibration:

Zurich

Date of Calibration:

December 18, 1999

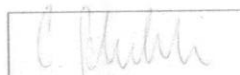
Calibration Interval:

12 months

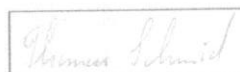
Schmid & Partner Engineering AG hereby certifies, that this device has been calibrated on the date indicated above. The calibration was performed in accordance with specifications and procedures of Schmid & Partner Engineering AG.

Wherever applicable, the standards used in the calibration process are traceable to international standards. In all other cases the standards of the Laboratory for EMF and Microwave Electronics at the Swiss Federal Institute of Technology (ETH) in Zurich, Switzerland have been applied.

Calibrated by:



Approved by:



Schmid & Partner
Engineering A G

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Probe ET3DV5

SN:1332

Manufactured:	December 20, 1997
Last calibration:	January 12, 1999
Recalibrated:	December 18, 1999

Calibrated for System DASY3

