



Accredited testing laboratory

DAR registration number: TTI-P-G 166/98

**Federal Motor Transport Authority (KBA)
DAR registration number: KBA-P 00070-97**

Test report no. : 4-0827-1-1/02
Type identification : HT 4000 and PT 4000
Test specification : EN 50371: 2002

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1 General Information

1.1 Notes

The test results of this test report relate exclusively to the test item specified in 1.5. The CETECOM ICT Services GmbH does not assume responsibility for any conclusions and generalisations drawn from the test results with regard to other specimens or samples of the type of the equipment represented by the test item. The test report may only be reproduced or published in full. Reproduction or publication of extracts from the report requires the prior written approval of the CETECOM ICT Services GmbH.

Test laboratory manager:

08.01.03**Fabien Coulet**

Date

Name

Signature

Technical responsibility for area of testing:

08.01.03**Bernd Rebmann**

Date

Name

Signature

1.2 Testing laboratory

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State of accreditation: The Test laboratory (area of testing) is accredited according to DIN EN ISO/IEC 17025. DAR registration number: TTI-P-G-166/98

Test location, if different from CETECOM ICT Services GmbH

Name:
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Town:
Country:
Phone:
Fax:

1.3 Details of applicant

Name: AKG Acoustics GmbH

Street: Lemböckgasse 21-25
Town: 1230 Wien
Country: Österreich

Contact: Peter Tiefenthaler
Telephone: +43 1 86654-1350

1.4 Application details

Date of receipt of application: 21.11.02
Date of receipt of test item: 08.12.02
Start/Date of test: 17.12.02
End of test: 17.12.02

Person(s) present during the test: ---

1.5 Test item

Description of the test item:	UHF transmitter (hand- a. pocket transmitter)
Type identification:	HT 4000: 3001Z0003 (hand transmitter) PT 4000: 3002Z0003 (pocket transmitter)
Serial number:	HT 4000: 024800004-4.1/0.3 PT 4000: 024800004-4.1/0.3
Manufacturer:	
Name:	AKG Acoustics GmbH
Street:	Lemböckgasse 21-25
Town:	1230 Wien
Country:	Österreich
additional information on the DUT:	
device type :	UHF radio microphone transmitter
operating frequency range	720 MHz to 750 MHz
adjusted frequency during the measurement	750 MHz
max. radiated output power (ERP)	HT 4000: 56 mW PT 4000: 38 mW
auxiliary equipment:	Headset C444

1.6 Test specification(s)

EN 50371:2002

Generic standard to demonstrate the compliance of low power electronic and electrical apparatus with the basic restrictions related to human exposure to electromagnetic fields (10 MHz-300 GHz)

2 Technical test

2.1 Summary of test results

No deviations from the technical specification(s) were ascertained in the course of the tests performed.	☒
The deviations as specified in 2.5 were ascertained in the course of the tests performed.	☐

2.2 Test environment

General Environment conditions in the test area are as follows :

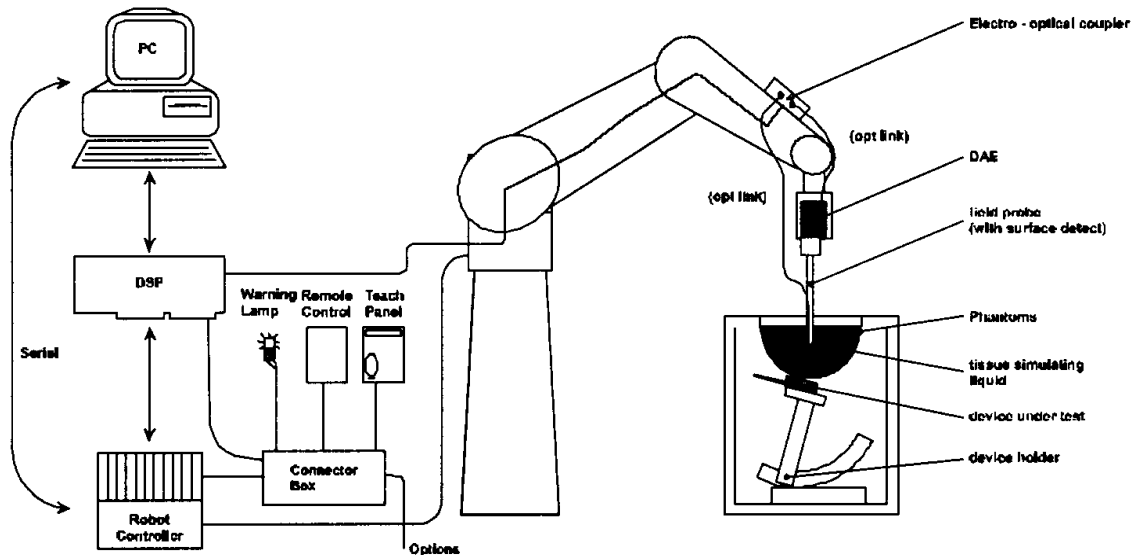
Ambient temperature: 20°C – 24°C
Tissue simulating liquid: 20°C – 24°C
Humidity: 40% – 50%

2.3 Measurement and test set-up

The measurement system is described in chapter 2.4.

2.4 Measurement system

2.4.1 System Description



The DASY3 system for performing compliance tests consists of the following items:

- A standard high precision 6-axis robot (Stäubli RX family) with controller and software. An arm extension for accommodating the data acquisition electronics (DAE).
- A dosimetric probe, i.e. an isotropic E-field probe optimized and calibrated for usage in tissue simulating liquid. The probe is equipped with an optical surface detector system.
- A data acquisition electronic (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
- A unit to operate the optical surface detector which is connected to the EOC.
- The Electro-Optical Coupler (EOC) performs the conversion from the optical into a digital electric signal of the DAE. The EOC is connected to the PC plug-in card.
- The function of the PC plug-in card based on a DSP is to perform the time critical task such as signal filtering, surveillance of the robot operation fast movement interrupts.
- A computer operating Windows 95 or higher
- DASY3 software
- Remote control with teach panel and additional circuitry for robot safety such as warning lamps, etc.
- The generic twin phantom enabling the testing of left-hand and right-hand usage.
- The device holder for handheld mobile phones.
- Tissue simulating liquid mixed according to the given recipes.
- System validation dipoles allowing to validate the proper functioning of the system.

2.4.2 Test environment

The DASY3 measurement system is placed at the head end of a room with dimensions : $5 \times 2.5 \times 3 \text{ m}^3$, the SAM phantom is placed in a distance of 75 cm from the side walls and 1.1m from the rear wall. Above the test system a $1.5 \times 1.5 \text{ m}^2$ array of pyramid absorbers is installed to reduce reflections from the ceiling.

Picture 1 of the photo documentation shows a complete view of the the test environment.

The system allows the measurement of SAR values larger than 0.005 mW/g .

2.4.3 Probe description

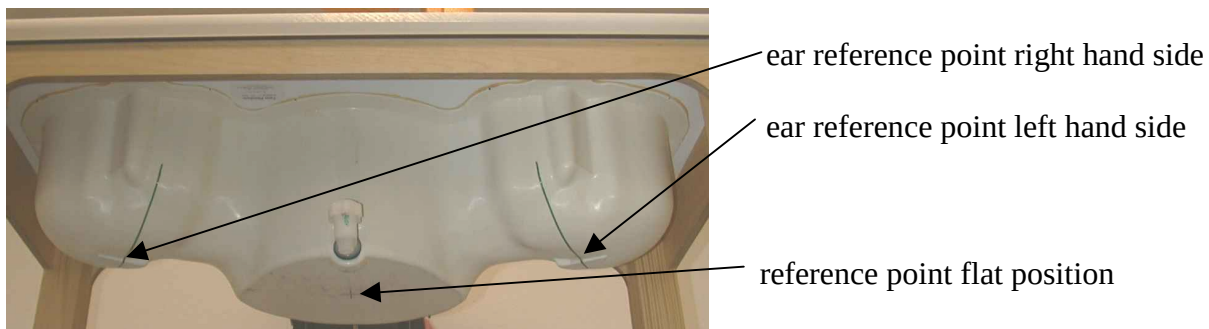
Isotropic E-Field Probe ET3DV6 for Dosimetric Measurements

Technical data according to manufacturer information	
Construction	Symmetrical design with triangular core Built-in optical fiber for surface detection system Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., glycolether)
Calibration	In air from 10 MHz to 2.5 GHz In head tissue simulating liquid (HSL) at 900 (800-1000) MHz and 1.8 GHz (1700-1910 MHz) (accuracy $\pm 9.5\%$; $k=2$) Calibration for other liquids and frequencies upon request
Frequency	10 MHz to 3 GHz (dosimetry); Linearity: $\pm 0.2 \text{ dB}$ (30 MHz to 3 GHz)
Directivity	$\pm 0.2 \text{ dB}$ in HSL (rotation around probe axis) $\pm 0.4 \text{ dB}$ in HSL (rotation normal to probe axis)
Dynamic range	$5 \mu\text{W/g}$ to $> 100 \text{ mW/g}$; Linearity: $\pm 0.2 \text{ dB}$
Optical Surface Detection	$\pm 0.2 \text{ mm}$ repeatability in air and clear liquids over diffuse reflecting surfaces (ET3DV6 only)
Dimensions	Overall length: 330 mm Tip length: 16 mm Body diameter: 12 mm Tip diameter: 6.8 mm Distance from probe tip to dipole centers: 2.7 mm
Application	General dosimetry up to 3 GHz Compliance tests of mobile phones Fast automatic scanning in arbitrary phantoms (ET3DV6)

2.4.4 Phantom description

The used SAM Phantom meets the requirements specified in Edition 01-01 of Supplement C to OET Bulletin 65 for Specific Absorption Rate (SAR) measurements.

The phantom consists of a fibreglass shell integrated in a wooden table. It allows left-hand and right-hand head as well as body-worn measurements with a maximum liquid depth of 18 mm in head position and 22 mm in planar position (body measurements). The thickness of the Phantom shell is 2 mm +/- 0.1 mm.



2.4.5 Device holder description

The DASY3 device holder has two scales for device rotation (with respect to the body axis) and the device inclination (with respect to the line between the ear openings). The plane between the ear openings and the mouth tip has a rotation angle of 65°. The bottom plate contains three pair of bolts for locking the device holder. The device holder positions are adjusted to the standard measurement positions in the three sections. This device holder is used for standard mobile phones or PDA's only. If necessary an additional support of polystyrene material is used.



Larger DUT's (e.g. notebooks) cannot be tested using this device holder. Instead a support of bigger polystyrene cubes and thin polystyrene plates is used to position the DUT in all relevant positions to find and measure spots with maximum SAR values.

Therefore those devices are normally only tested at the flat part of the SAM.

2.4.6 Scanning procedure

The DASY3 installation includes predefined files with recommended procedures for measurements and validation. They are read-only document files and destined as fully defined but unmeasured masks. All test positions (head or body-worn) are tested with the same configuration of test steps differing only in the grid definition for the different test positions.

- The „reference“ and „drift“ measurements are located at the beginning and end of the batch process. They measure the field drift at one single point in the liquid over the complete procedure. The indicated drift is mainly the variation of the DUT's output power and should vary max. $\pm 5\%$.
- The „surface check“ measurement tests the optical surface detection system of the DASY3 system by repeatedly detecting the surface with the optical and mechanical surface detector and comparing the results. The output gives the detecting heights of both systems, the difference between the two systems and the standard deviation of the detection repeatability. Air bubbles or refraction in the liquid due to separation of the sugar-water mixture gives poor repeatability (above $\pm 0.1\text{mm}$). To prevent wrong results tests are only executed when the liquid is free of air bubbles. The difference between the optical surface detection and the actual surface depends on the probe and is specified with each probe. (It does not depend on the surface reflectivity or the probe angle to the surface within $\pm 30^\circ$.)

The „coarse scan“ measures the SAR above the dipole on a parallel plane to the surface. It is used to locate the approximate location of the peak SAR with 2D spline interpolation. The robot performs a stepped movement along one grid axis while the local electrical field strength is measured by the probe. The standard scan uses large grid spacing for faster measurement. Standard grid spacing for head measurements is 15 mm in x- and y- dimension. If a finer graphic is needed, the grid spacing can be reduced. Grid spacing and orientation have no influence on the SAR result. For special applications where the standard scan method does not find the peak SAR within the grid, e.g. mobile phones with flip cover, the grid can be adapted in orientation.

- A „cube 5x5x7 scan“ measures the field in a volume around the 2D peak SAR value acquired in the previous „coarse“ scan. This is a fine 5x5 grid where the robot additionally moves the probe in 7 steps along the z-axis away from the bottom of the Phantom. Grid spacing for the cube measurement is 8 mm in x and y-direction and 5 mm in z-direction. In this document, the evaluated peak 1g and 10g averaged SAR values are shown in the 2D-graphics in annex 2. Test results relevant for the specified standard (see chapter 1.7.) are shown in table form in chapter 2.5.

2.4.7 Spatial Peak SAR Evaluation

The spatial peak SAR - value for 1 and 10 g is evaluated after the Cube measurements have been done. The basis of the evaluation are the SAR values measured at the points of the fine cube grid consisting of 5 x 5 x 7 points. If any parameter is changed afterwards with 'File Modify' (for example crest factor or medium factors) a re-evaluation of the measurement is needed. This evaluation can be repeated by selecting 'Job Evaluation' on the selected scans. The algorithm that finds the maximal averaged volume is separated into three different stages.

- The data between the dipole center of the probe and the surface of the phantom are extrapolated. This data cannot be measured since the center of the dipole is 2.7 mm away from the tip of the probe and the distance between the surface and the lowest measuring point is about 1 mm (see probe calibration sheet). The extrapolated data from a cube measurement can be visualized by selecting 'Graph Evaluated'.
- The maximum interpolated value is searched with a straight-forward algorithm. Around this maximum the SAR - values averaged over the spatial volumes (1g or 10 g) are computed using the 3d-spline interpolation algorithm. If the volume cannot be evaluated (i.e., if a part of the grid was cut off by the boundary of the measurement area) the evaluation will be started on the corners of the bottom plane of the cube.
- All neighboring volumes are evaluated until no neighboring volume with a higher average value is found.

Extrapolation

The extrapolation is based on a least square algorithm [W. Gander, Computermathematik, p.168-180]. Through the points in the first 3 cm along the z-axis, polynomials of order four are calculated. These polynomials are then used to evaluate the points between the surface and the probe tip. The points, calculated from the surface, have a distance of 1 mm from each other.

Interpolation

The interpolation of the points is done with a 3d-Spline. The 3d-Spline is composed of three one-dimensional splines with the "Not a knot"-condition [W. Gander, Computermathematik, p.141-150] (x, y and z -direction) [Numerical Recipes in C, Second Edition, p.123ff].

Volume Averaging

At First the size of the cube is calculated. Then the volume is integrated with the trapezoidal algorithm. 8000 points (20x20x20) are interpolated to calculate the average.

Advanced Extrapolation

The BIOEMC group of the ETH Zurich is currently investigating the boundary effects on E-field probes. As soon as the research is finished DASY3 will allow to compensate for these boundary effects. But until then we do not encourage to use the 'Advanced Extrapolation' option.

2.4.8 Data Storage and Evaluation

2.4.8.1 Data Storage

The DASY3 software stores the acquired data from the data acquisition electronics as raw data (in microvolt readings from the probe sensors), together with all necessary software parameters for the data evaluation (probe calibration data, liquid parameters and device frequency and modulation data) in measurement files with the extension ".DA3". The software evaluates the desired unit and format for output each time the data is visualized or exported. This allows verification of the complete software setup even after the measurement and allows correction of incorrect parameter settings. For example, if a measurement has been performed with a wrong crest factor parameter in the device setup, the parameter can be corrected afterwards and the data can be re-evaluated. To avoid unintentional parameter changes or data manipulations, the parameters in measured files are locked. In the administrator access mode of the software, the parameters can be unlocked by selecting the "modify"-switch in the "file"-pull down menu. After changing the parameters, the measured scans must be re-evaluated by selecting them and using the "evaluate"-option in the "scan"-pull down menu.

The measured data can be visualized or exported in different units or formats, depending on the selected probe type ([V/m], [A/m], [°C], [mW/g], [mW/cm²], [dBrel], etc.). Some of these units are not available in certain situations or show meaningless results, e.g., a SAR output in a lossless media will always be zero. Raw data can also be exported to perform the evaluation with other software packages.

2.4.8.2 Data Evaluation

The DASY3 software automatically executes the following procedures to calculate the field units from the microvolt readings at the probe connector. The parameters used in the evaluation are stored in the configuration modules of the software:

Probe parameters:	- Sensitivity	$\text{Norm}_i, a_{i0}, a_{i1}, a_{i2}$
	- Conversion factor	ConvF_i
	- Diode compression point	Dcpi
Device parameters:	- Frequency	f
	- Crest factor	cf
Media parameters:	- Conductivity	σ
	- Density	ρ

These parameters must be set correctly in the software. They can be found in the component documents or they can be imported into the software from the configuration files issued for the DASY3 components. In the direct measuring mode of the multimeter option, the parameters of the actual system setup are used. In the scan visualization and export modes, the parameters stored in the corresponding document files are used.

The first step of the evaluation is a linearization of the filtered input signal to account for the compression characteristics of the detector diode. The compensation depends on the input signal, the diode type and the DC-transmission factor from the diode to the evaluation electronics.

If the exciting field is pulsed, the crest factor of the signal must be known to correctly compensate for peak power. The formula for each channel can be given as:

$$V_i = U_i + U_i^2 \cdot cf/dcp_i$$

with V_i = compensated signal of channel i (i = x, y, z)
 U_i = input signal of channel i (i = x, y, z)
 cf = crest factor of exciting field (DASY parameter)
 dcp_i = diode compression point (DASY parameter)

From the compensated input signals the primary field data for each channel can be evaluated:

E-field probes: $E_i = (V_i / Norm_i \cdot ConvF)^{1/2}$

H-field probes: $H_i = (V_i)^{1/2} \cdot (a_{i0} + a_{i1}f + a_{i2}f^2)/f$

with V_i = compensated signal of channel i (i = x, y, z)
 $Norm_i$ = sensor sensitivity of channel i (i = x, y, z)
 [mV/(V/m)²] for E-field Probes
 $ConvF$ = sensitivity enhancement in solution
 a_{ij} = sensor sensitivity factors for H-field probes
 f = carrier frequency [GHz]
 E_i = electric field strength of channel i in V/m
 H_i = magnetic field strength of channel i in A/m

The RSS value of the field components gives the total field strength (Hermitian magnitude):

$$E_{tot} = (E_x^2 + E_y^2 + E_z^2)^{1/2}$$

The primary field data are used to calculate the derived field units.

$$SAR = (E_{tot}^2 \cdot \sigma) / (\rho \cdot 1000)$$

with SAR = local specific absorption rate in mW/g
 E_{tot} = total field strength in V/m
 σ = conductivity in [mho/m] or [Siemens/m]
 ρ = equivalent tissue density in g/cm³

Note that the density is normally set to 1 (or 1.06), to account for actual brain density rather than the density of the simulation liquid. The power flow density is calculated assuming the excitation field to be a free space field.

$$P_{pwe} = E_{tot}^2 / 3770 \quad \text{or} \quad P_{pwe} = H_{tot}^2 \cdot 37.7$$

with P_{pwe} = equivalent power density of a plane wave in mW/cm²
 E_{tot} = total electric field strength in V/m
 H_{tot} = total magnetic field strength in A/m

2.4.9 Test equipment utilized

This table gives a complete overview of the SAR measurement equipment

Devices used during the test described in chapter 2.5. are marked ☒

	Manufacturer	Device	Type	Serial number	Date of last calibration)*
☒	Schmid & Partner Engineering AG	Dosimetric E-Field Probe	ET3DV6	1558	March 22, 2002
	Schmid & Partner Engineering AG	Dosimetric E-Field Probe (spare)	ET3DV6	1559	February 20, 2001
☒	Schmid & Partner Engineering AG	900 MHz System Validation Dipole	D900V2	102	February 13, 2001
	Schmid & Partner Engineering AG	1800 MHz System Validation Dipole	D1800V2	287	February 13, 2001
	Schmid & Partner Engineering AG	1900 MHz System Validation Dipole	D1900V2	5d009	June 13, 2002
	Schmid & Partner Engineering AG	2450 MHz System Validation Dipole	D2450V2	710	July 15, 2002
☒	Schmid & Partner Engineering AG	Data acquisition electronics	DAE3V1	413	N/A
☒	Schmid & Partner Engineering AG	Software	DASY 3 V3.1c	---	N/A
☒	Schmid & Partner Engineering AG	Phantom	SAM	---	N/A
	Rohde & Schwarz	Universal Radio Communication Tester (used as controller only)	CMU 200	U-972406/000	August 30, 2001
	Agilent	Network Analyser 300 kHz to 3 GHz	8753C	2936A00872	February 26, 2002
	Agilent	Dielectric Probe Kit	85070C	US99360146	March 8, 2001
☒	Agilent	Peak Power Analyzer	8990A	3128A00169	August 6, 2002
☒	Agilent	Peak Power Sensor	84813A	3125A00111	September 18, 2002
☒	Rohde & Schwarz	Signal Generator	SMPD	882.362/009	January 11, 2002
☒	Amplifier Reasearch	Amplifier	25S1G4 (25 Watt)	20452	N/A
☒	Agilent	Power Meter	438A	2804U01006	April 12,2002
☒	Agilent	Power Meter Sensor	8482A	2703A03025	April 22, 2002

)* : Measurement devices are in a 1-year calibration cycle, validation dipoles are in a 2-year calibration cycle

2.4.10 Tissue simulating liquids : dielectric properties

The following materials are used for producing the tissue-equivalent materials (liquids used for tests described in chapter 2.5. are marked with ☒) :

Ingredients (% of weight)	Frequency (MHz)					
frequency band	☐ 450	☒ 750	☐ 900	☐ 1800	☐ 1900	☐ 2450
Tissue Type	Body	Body	Body	Body	Body	Body
Water	51.16	52.4	56.0	69.91	69.91	73.2
Salt (NaCl)	1.49	1.40	0.76	0.13	0.13	0.04
Sugar	46.78	45.0	41.76	0.0	0.0	0.0
HEC	0.52	1.0	1.21	0.0	0.0	0.0
Bactericide	0.05	0.1	0.27	0.0	0.0	0.0
Triton X-100	0.0	0.0	0.0	0.0	0.0	0.0
DGBE	0.0	0.0	0.0	29.96	29.96	26.7

Table 1: Body tissue dielectric properties

Salt: 99+% Pure Sodium Chloride

Sugar: 98+% Pure Sucrose

Water: De-ionized, 16MΩ+ resistivity

HEC: Hydroxyethyl Cellulose

DGBE: 99+% Di(ethylene glycol) butyl ether, [2-(2-butoxyethoxy)ethanol]

Triton X-100(ultra pure): Polyethylene glycol mono [4-(1,1,3,3-tetramethylbutyl)phenyl]ether

2.4.11 Tissue simulating liquids : parameters

(liquids used for tests described in chapter 2.5. are marked with ☒)

body/muscle tissue simulating liquids

Used Target Frequency	Target Body Tissue		Measured Body Tissue		Measured Date
[GHz]	Permittivity	Conductivity [S/m]	Permittivity	Conductivity [S/m]	
450	56.7	0.94	60.6	0.84	2002-02-25
☒ 750	55.6	0.97	56.8	0.96	2000-12-19
900	55.0	1.05	56.7	1.01	2002-12-19
915	55.0	1.06	56.6	1.02	2002-12-19
1800	53.3	1.52	54.3	1.45	2002-12-19
1900	53.3	1.52	53.8	1.56	2002-12-19
2450	52.7	1.95	51.8	2.00	2002-12-12

Table 2: Parameter of the body tissue simulating liquid

Note: The dielectric properties have been measured using the contact probe method at 22°C.

2.4.12 Measurement uncertainties

The overall combined measurement uncertainty of the measurement system is $\pm 13,6\%$ ($K=1$).
The breakdown of the individual uncertainties is as follows:

Error Sources	Uncertainty Value	Probability Distribution	Divisor	c_i	Standard Uncertainty	v_i^2 or v_{eff}
Measurement System						
Probe calibration	$\pm 4.4\%$	Normal	1	1	$\pm 4.4\%$	∞
Axial isotropy	$\pm 4.7\%$	Rectangular	$\sqrt{3}$	$(1-cp)^{1/2}$	$\pm 1.9\%$	∞
Spherical isotropy	$\pm 9.6\%$	Rectangular	$\sqrt{3}$	$(cp)^{1/2}$	$\pm 3.9\%$	∞
Spatial resolution	$\pm 0.0\%$	Rectangular	$\sqrt{3}$	1	$\pm 0.0\%$	∞
Boundary effects	$\pm 5.5\%$	Rectangular	$\sqrt{3}$	1	$\pm 3.2\%$	∞
Probe linearity	$\pm 4.7\%$	Rectangular	$\sqrt{3}$	1	$\pm 2.7\%$	∞
Detection limit	$\pm 1.0\%$	Rectangular	$\sqrt{3}$	1	$\pm 0.6\%$	∞
Readout electronics	$\pm 1.0\%$	Normal	1	1	$\pm 1.0\%$	∞
Response time	$\pm 0.8\%$	Rectangular	$\sqrt{3}$	1	$\pm 0.5\%$	∞
Integration time	$\pm 1.4\%$	Rectangular	$\sqrt{3}$	1	$\pm 0.8\%$	∞
RF ambient conditions	$\pm 3.0\%$	Rectangular	$\sqrt{3}$	1	$\pm 1.7\%$	∞
Mech. robot constructions	$\pm 0.4\%$	Rectangular	$\sqrt{3}$	1	$\pm 0.2\%$	∞
Probe positioning	$\pm 2.9\%$	Rectangular	$\sqrt{3}$	1	$\pm 1.7\%$	∞
Extrapolation & integration	$\pm 3.9\%$	Rectangular	$\sqrt{3}$	1	$\pm 2.3\%$	∞
Test Sample Related						
Device holder	$\pm 6.0\%$	Normal	0.89	1	$\pm 6.7\%$	12
Device holder uncertainty	$\pm 5.0\%$	Normal	0.84	1	$\pm 5.9\%$	8
Power drift	$\pm 5.0\%$	Rectangular	$\sqrt{3}$	1	$\pm 2.9\%$	∞
Phantom and Set-up						
Phantom uncertainty	$\pm 4.0\%$	Rectangular	$\sqrt{3}$	1	$\pm 2.3\%$	∞
Liquid conductivity (target)	$\pm 5.0\%$	Rectangular	$\sqrt{3}$	0.6	$\pm 1.7\%$	∞
Liquid conductivity (meas.)	$\pm 10.0\%$	Rectangular	$\sqrt{3}$	0.6	$\pm 3.5\%$	∞
Liquid permittivity (target)	$\pm 5.0\%$	Rectangular	$\sqrt{3}$	0.6	$\pm 1.7\%$	∞
Liquid permittivity (meas.)	$\pm 5.0\%$	Rectangular	$\sqrt{3}$	0.6	$\pm 1.7\%$	∞
Combined Uncertainty					$\pm 13.6\%$	

Table 3: Measurement uncertainties

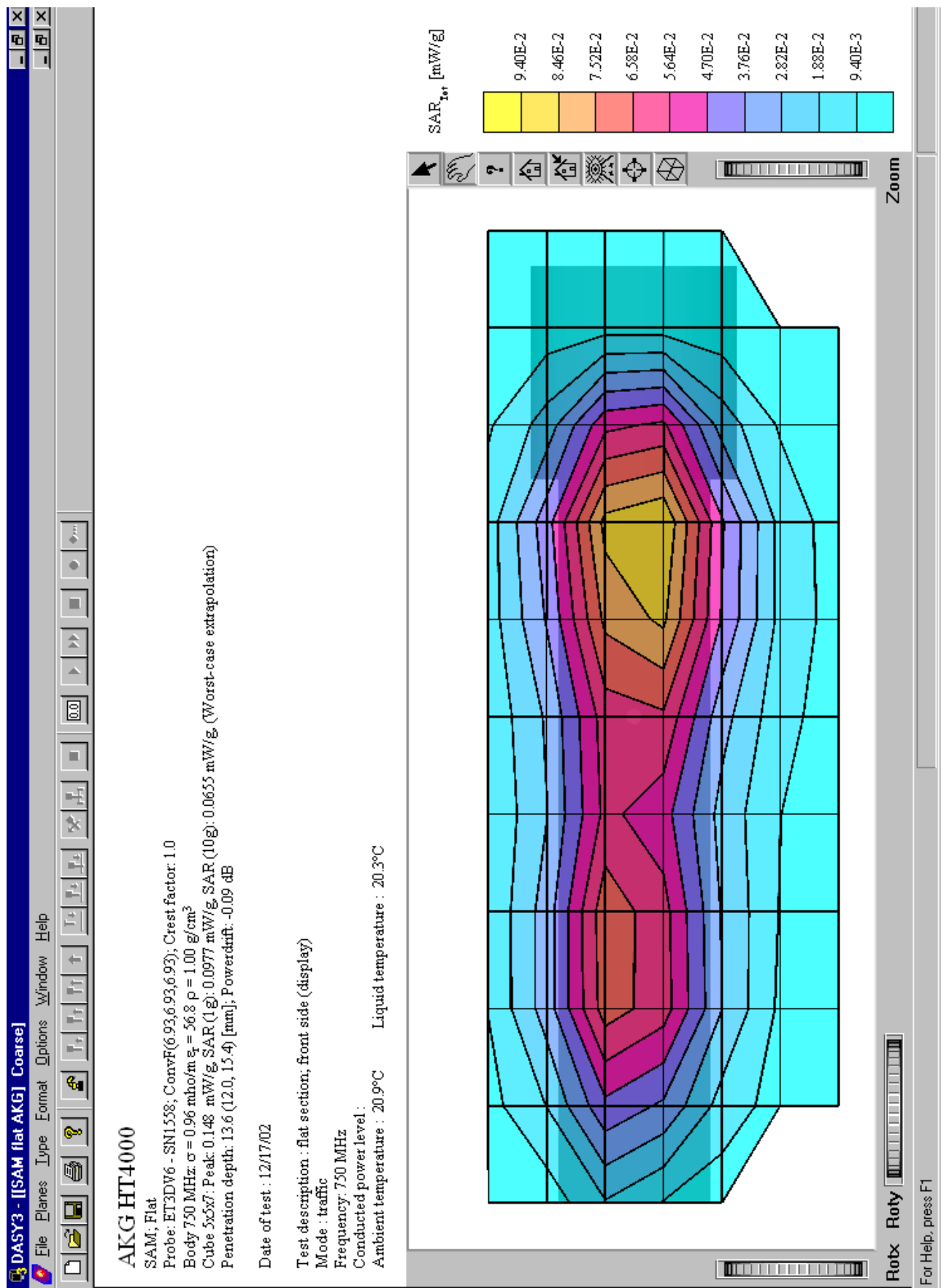
The measurement uncertainty budget suggested by IEEE Std 1528-200X and determined by Schmid & Partner Engineering AG. The expanded uncertainty ($k=2$) is assessed to be $\pm 27.2\%$

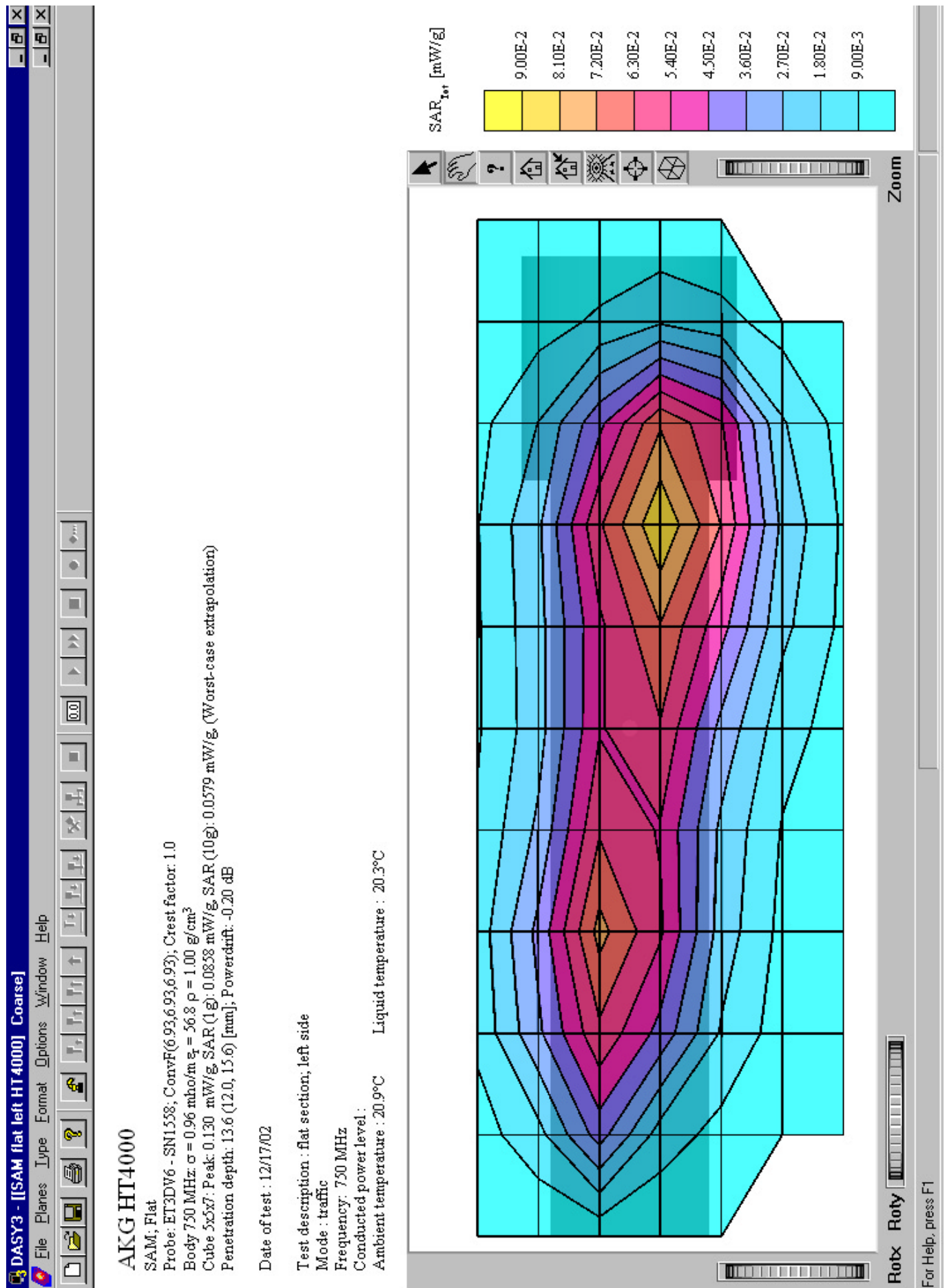
2.5 Test results (Body SAR)

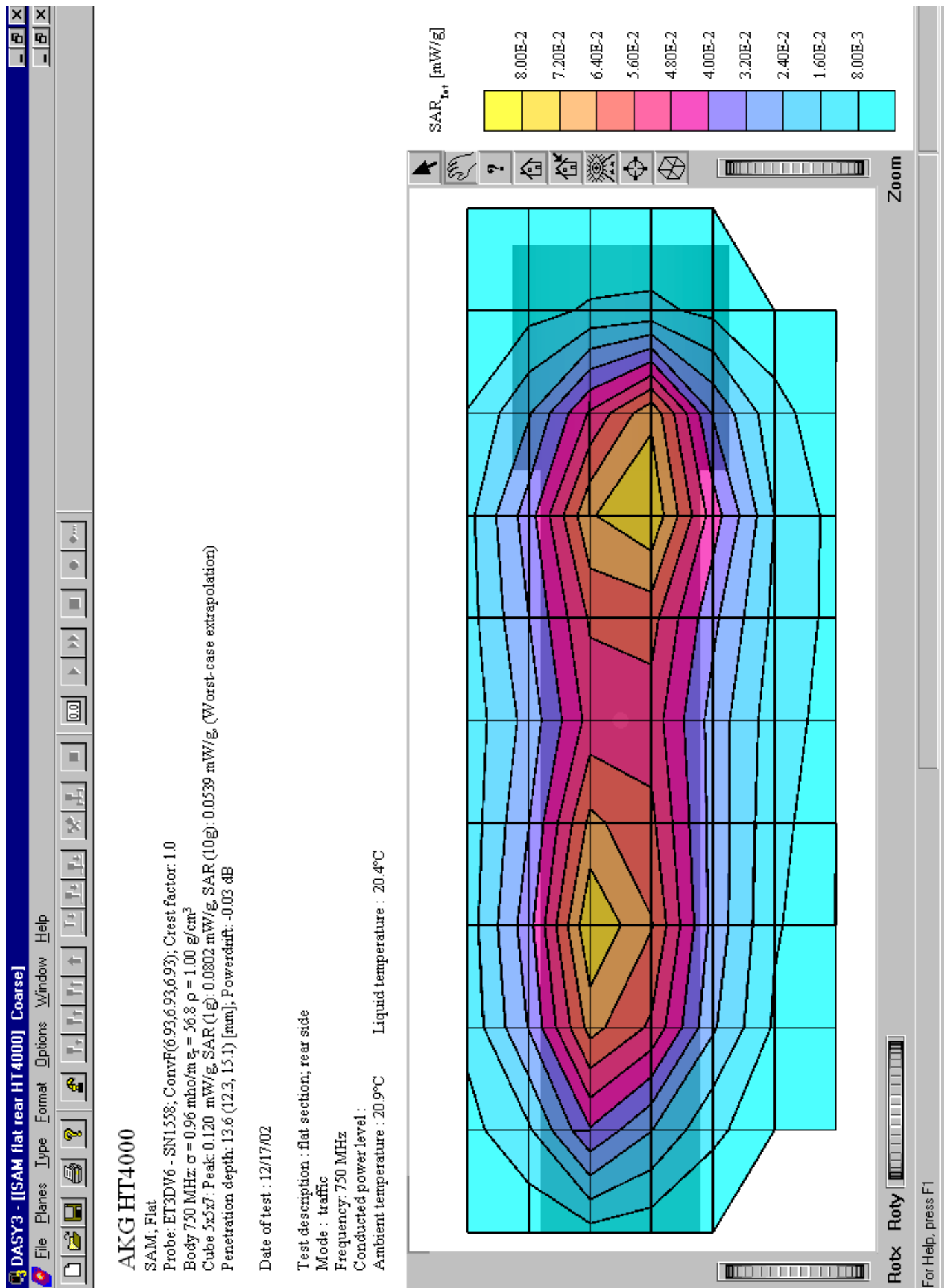
The table contains the measured SAR values averaged over a mass of 10 g			
Model / Frequency	Position	SAR value	Limit
HT 4000 / 750 MHz	front side (display)	0.0655 W/kg	2 W/kg
HT 4000 / 750 MHz	left side	0.0539 W/kg	2 W/kg
HT 4000 / 750 MHz	rear side	0.0579 W/kg	2 W/kg
HT 4000 / 750 MHz	right side	0.0603 W/kg	2 W/kg
PT 4000 / 750 MHz	rear side with head set	0.128 W/kg	2 W/kg

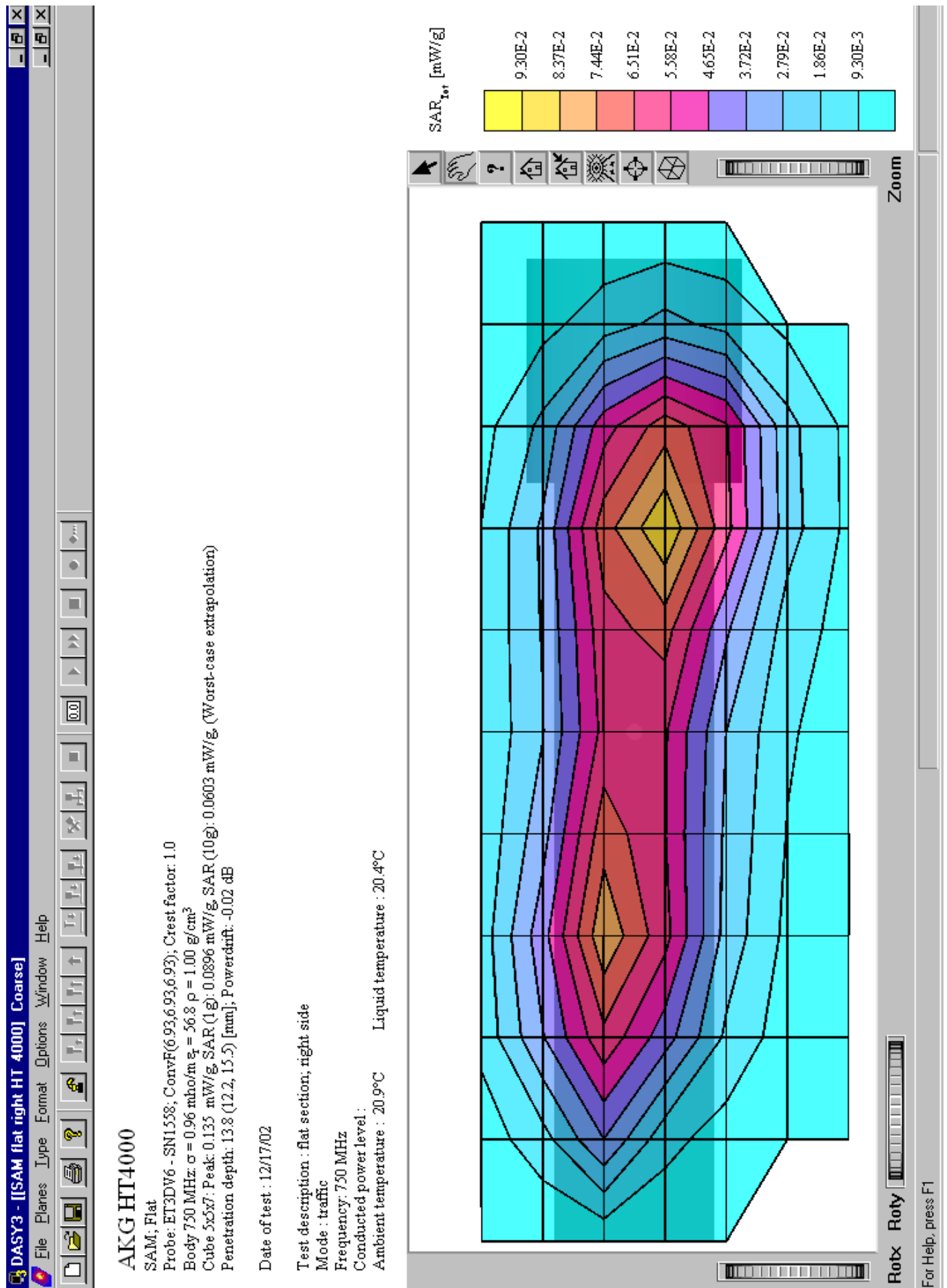
Table 4: Test results (Body SAR)

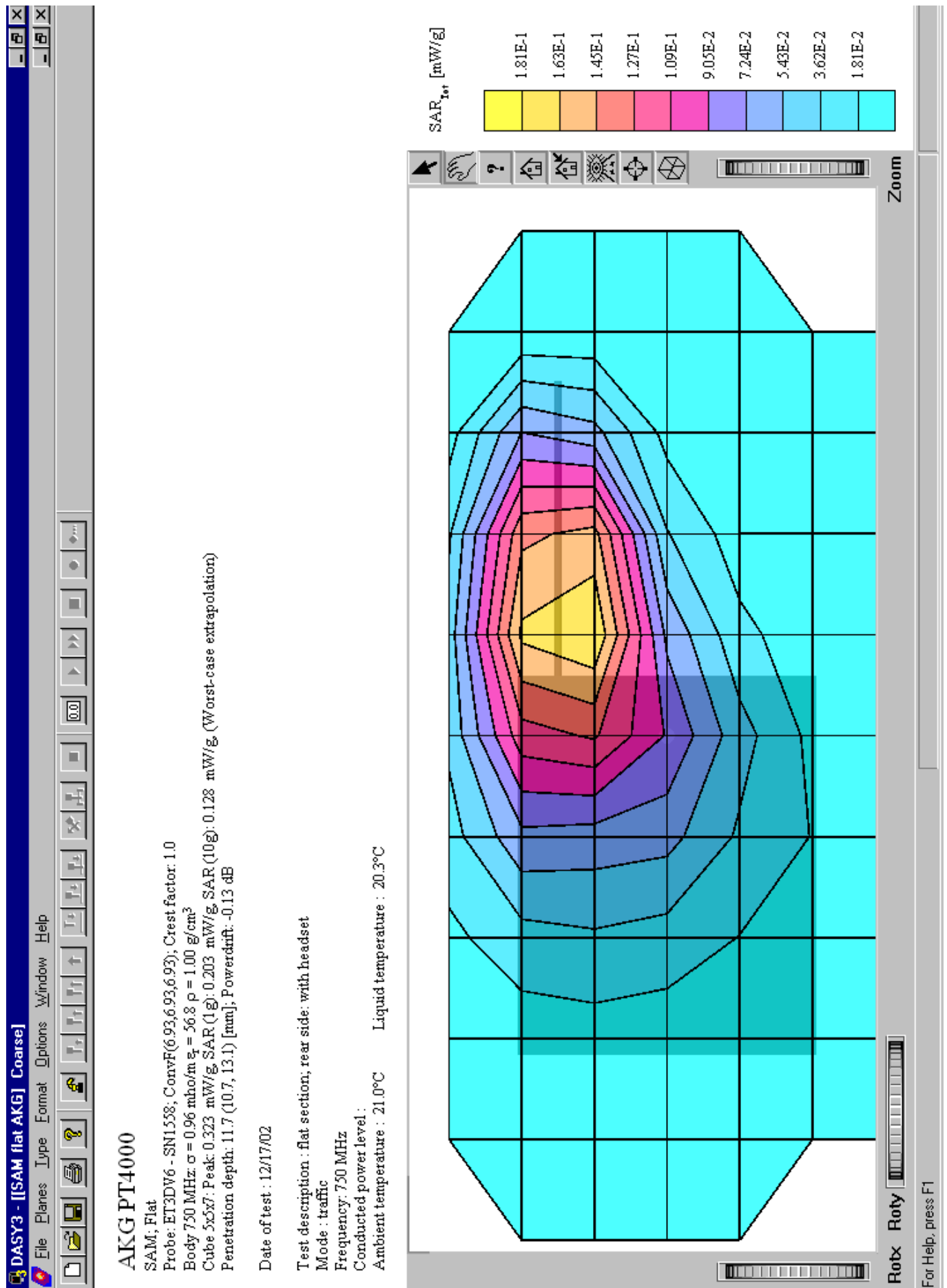
Annex 1 Measurement results (printout from DASY™)











Annex 2 Photo documentation

Picture no. 1

Measurement System DASY 3



Picture no. 2

HT 4000, front side



Picture no. 3

HT 4000, left side



Picture no. 4

HT 4000, rear side



Picture no. 5

HT 4000, right side



Picture no. 6

PT 4000, rear side



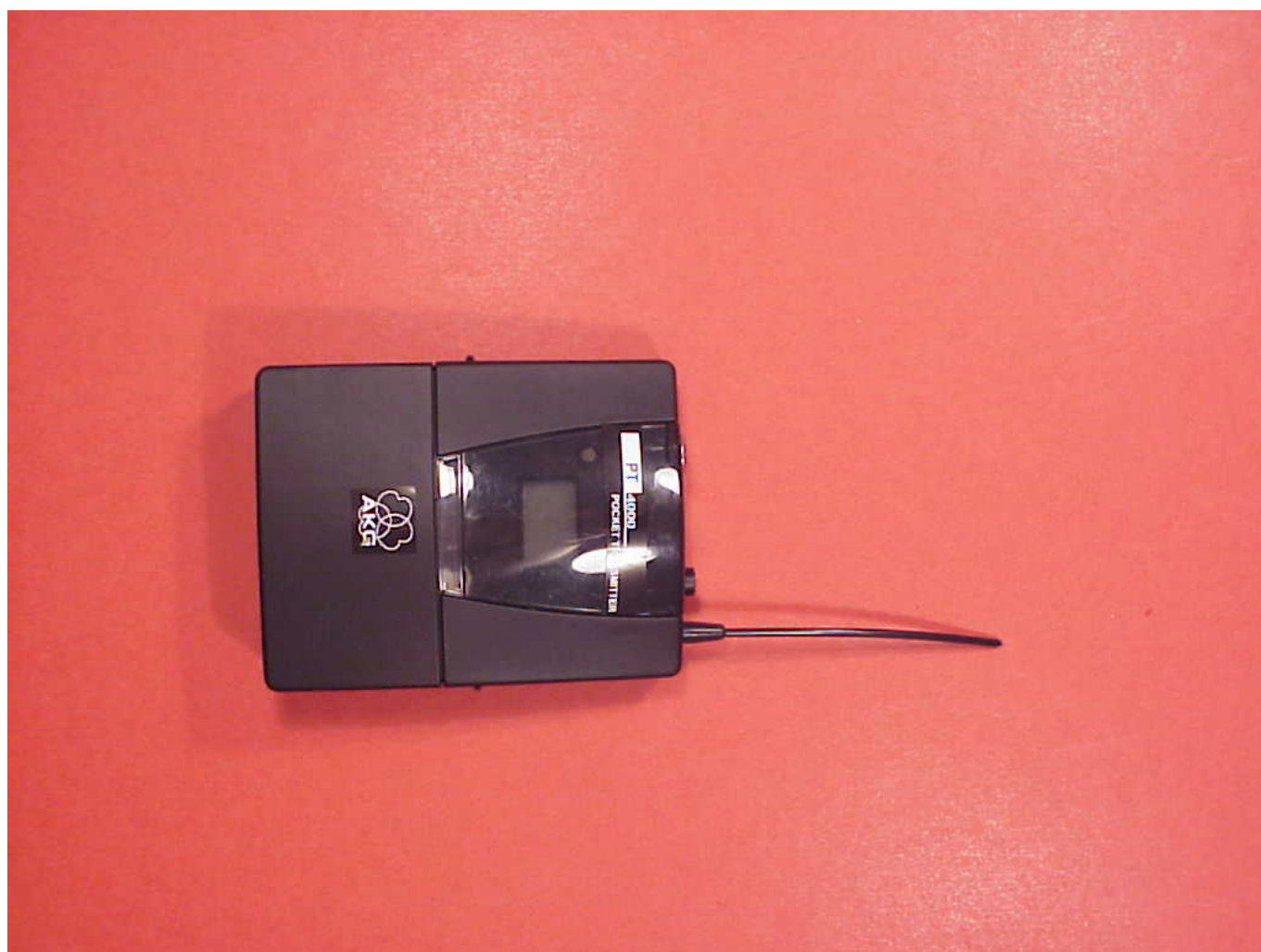
Picture no. 7

HT 4000



Picture no. 8

PT 4000



Picture no. 9

Headset C444

