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No.

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SAR Test Report: PY7A1021061

**Date of test:** Oct. 20 to 24, 2004

**Laboratory:** Sony Ericsson SAR Test Laboratory

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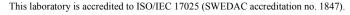
# Statement of Compliance

Sony Ericsson Mobile Communications AB declares under its sole responsibility that the product

Sony Ericsson Type AAB-1021061BV; FCC ID: PY7A1021061

to which this declaration relates, is in conformity with the appropriate RF exposure standards recommendations and guidelines. It also declares that the product was tested in accordance with the appropriate measurement standards, guidelines and recommended practices. Any deviations from these standards, guidelines and recommended practices are noted below:

(None)





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The results and statements contained herein relate only to the items tested. The names of individuals involved may be mentioned only in connection with the statements or results from this report.



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### 2 Introduction

In this report, compliance of the Sony Ericsson PY7A1021061portable telephone with RF safety guidelines is demonstrated. The applicable RF safety guidelines and the SAR measurement specifications used for the test are described in the SAR Measurement Specifications of Wireless Handsets [1].

#### 3 **Device Under Test**

### 3.1 **Antenna Description**

| Туре          | Internal antenna          |      |  |
|---------------|---------------------------|------|--|
| Location      | Inside back, near the top |      |  |
| Dimensions    | Max length                | 38mm |  |
| Dilliensions  | Max width                 | 14mm |  |
| Configuration | PIFA                      |      |  |

### 3.2 **Device description**

| Device model                       | PY7A1021061                       |
|------------------------------------|-----------------------------------|
| Serial number                      | A14901291                         |
| Mode                               | GSM 1900                          |
| Multiple Access Scheme             | TDMA                              |
| Maximum Output Power Setting       | 30.1                              |
| Factory Tolerance in Power Setting | ± 0.5dB                           |
| Maximum Peak Output Power          | 30.6dBm                           |
| Crest Factor                       | 8                                 |
| Transmitting Frequency Range       | 1850.2 – 1909.8 MHz               |
| Prototype or Production Unit       | Preproduction                     |
| Device Category                    | Portable                          |
| RF exposure environment            | General population / uncontrolled |

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# 4 Test equipment

# 4.1 Dosimetric system

SAR measurements were made using the DASY3 professional system (software version 3.1c) with SAM twin phantom, manufactured by Schmid & Partner Engineering AG (SPEAG). The list of calibrated equipment is given below.

| Description                     | Serial Number | Due Date |  |
|---------------------------------|---------------|----------|--|
| DASY3 DAE V1                    | 419           | 4/2005   |  |
| E-field probe ETDV6             | 1585          | 4/2005   |  |
| Dipole Validation Kit, D1900 V2 | 5d002         | 2/2006   |  |

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4.2 Additional equipment

| Description                   | Inventory Number | Due Date |  |  |  |  |  |
|-------------------------------|------------------|----------|--|--|--|--|--|
| Signal generator ESG-D4000A   | INV 483972       | 9/2005   |  |  |  |  |  |
| Directional coupler HP778D    | INV 39656        | 1/2005   |  |  |  |  |  |
| Power meter R&S NRVD          | INV 483920       | 1/2005   |  |  |  |  |  |
| Power sensor R&S NRV-Z5       | INV 2333         | 1/2005   |  |  |  |  |  |
| Power sensor R&S NRV-Z5       | INV 2334         | 1/2005   |  |  |  |  |  |
| Termination 65N50-0-11        | INV 2903         | 1/2005   |  |  |  |  |  |
| Network analyzer HP8753C      | INV421671        | 8/2005   |  |  |  |  |  |
| S-parameter test set HP85047A | INV 421670       | 9/2005   |  |  |  |  |  |
| Dielectric probe kit HP8507D  | INV 20001078     | 2/2005   |  |  |  |  |  |
| Radio Communication Tester    | INV 74410        | 4/2005   |  |  |  |  |  |

# 5 Electrical parameters on the tissue simulating liquid

Prior to conducting SAR measurements, the relative permittivity,  $\mathcal{E}_r$ , and the conductivity,  $\sigma$ , of the tissue simulating liquids were measured with the dielectric probe kit. These values are shown in the table below. The mass density,  $\rho$ , entered into the DASY3 software is also given. Recommended limits for permittivity  $\mathcal{E}_r$ , conductivity  $\sigma$  and mass density  $\rho$  are also shown.

**Application Note:** The head and body tissue dielectric parameter recommended by the IEEE SCC-34/SC-2 in P1528 have been incorporated in the following table is prepared according to the following receipts. **For 1900MHz Head: Water 54.9%, Salt 0.18% and DGBE 44.92%, and** 

For 1900MHz Body: Water 56.1%, DGBE 33.4%, Salt 0.5%,

| f     | Tissue | issue Limits / Measured |                | Dielectric Parameters |           |      |
|-------|--------|-------------------------|----------------|-----------------------|-----------|------|
| (MHz) | type   | Lillits / Weasured      | ε <sub>r</sub> | σ (S/m)               | ρ (g/cm³) |      |
|       | Head   | Measured, 25/10/04      | 39.1           | 1.47                  | 1.0       |      |
| 1900  | пеац   | Recommended             | 40.0           | 1.40                  | 1.0       |      |
| 1300  | Muscle | Measured, 20/10/04      | 50.8           | 1.53                  | 1.0       |      |
|       |        | wiuscie                 | Recommended    | Recommended           | 53.3      | 1.52 |

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# System accuracy verification 6

A system accuracy verification of the DASY3 was performed using the dipole validation kit listed in section 3.1. The system verification test has done as the same day as the measurement of the DUT. The measurement made in ambient temperature 21-22°C and humanity 42%. The obtained results are displayed in the table below. RF noise had been measured in liquid when all RF equipment in lab was set off. Measured value was 0.0012W/g in 1g mass.

| f     | Tissue  | Measured /         | SAR (W/kg) | Dielectric Parameters |         | t (°C)    |        |
|-------|---------|--------------------|------------|-----------------------|---------|-----------|--------|
| (MHz) | type    | Reference          | 1g mass    | ε <sub>r</sub>        | σ (S/m) | ρ (g/cm³) | ι ( υ) |
|       | Head    | Measured, 25/10/04 | 41.3       | 39.1                  | 1.47    | 1.0       | 21     |
|       |         | Reference          | 41.6       | 38.8                  | 1.44    | 1.0       | -      |
| 1900  |         | Measured, 20/10/04 | 42.6       | 50.8                  | 1.53    | 1.0       | 21     |
|       | wiuscie | Reference          | 43.2       | 51.2                  | 1.59    | 1.0       | -      |

7 **SAR** measurement uncertainty

| Error description            | Uncertainty (%) | Distribution | Divisor | c <sub>i</sub><br>1g | Standard Uncertainty Head | Standard Uncertainty<br>Body |
|------------------------------|-----------------|--------------|---------|----------------------|---------------------------|------------------------------|
| Measurement system           | (70)            |              |         |                      |                           |                              |
| Probe calibration            | ±4.4            | Normal       | 1       | 1                    | ±4.4                      | ±4.4                         |
| Axial isotropy               | ±4.7            | Rectangular  | √3      | $(1-c_p)^{1/2}$      | ±1.9                      | ±1.9                         |
| Spherical isotropy           | ±9.6            | Rectangular  | √3      | $(c_p)^{1/2}$        | ±3.9                      | ±3.9                         |
| Spatial resolution           | ±0.0            | Rectangular  | √3      | 1                    | ±0.0                      | ±0.0                         |
| Boundary effects             | ±5.5            | Rectangular  | √3      | 1                    | ±3.2                      | ±3.2                         |
| Probe linearity              | ±4.7            | Rectangular  | √3      | 1                    | ±2.7                      | ±2.7                         |
| Detection limit              | ±1.0            | Rectangular  | √3      | 1                    | ±0.6                      | ±0.6                         |
| Readout electronics          | ±1.0            | Normal       | 1       | 1                    | ±1.0                      | ±1.0                         |
| Response time                | ±0.8            | Rectangular  | √3      | 1                    | ±0.5                      | ±0.5                         |
| Integration time             | ±1.4            | Rectangular  | √3      | 1                    | ±0.8                      | ±0.8                         |
| RF ambient conditions        | ±3.0            | Rectangular  | √3      | 1                    | ±1.7                      | ±1.7                         |
| Mech. Constraints of robot   | ±0.4            | Rectangular  | √3      | 1                    | ±0.2                      | ±0.2                         |
| Probe positioning            | ±2.9            | Rectangular  | √3      | 1                    | ±1.7                      | ±1.7                         |
| Extrap. and integration      | ±3.9            | Rectangular  | √3      | 1                    | ±2.3                      | ±2.3                         |
| Measurement System           |                 |              |         |                      | ±8.3                      | ±8.3                         |
| Uncertainty                  |                 |              |         |                      | 16.3                      | 10.3                         |
| Test sample related          |                 |              |         |                      |                           |                              |
| Device positioning           | ±6.0            | Normal       | 0.89    | 1                    | ±6.7                      | ±6.7                         |
| Device holder                | ±5.0            | Normal       | 0.84    | 1                    | ±5.9                      | ±5.9                         |
| Power drift                  | -4.9/-0.5       | Rectangular  | √3      | 1                    | -2.8                      | -0.3                         |
| Test Sample Related          |                 |              |         |                      | ±9.4                      | ±8.9                         |
| Uncertainty                  |                 |              |         |                      | 13.4                      | 10.9                         |
| Phantom and setup            |                 |              |         |                      |                           |                              |
| Phantom uncertainty          | ±4.0            | Rectangular  | √3      | 1                    | ±2.3                      | ±2.3                         |
| Liquid conductivity (target) | ±5.0            | Rectangular  | √3      | 0.6                  | ±1.7                      | ±1.7                         |
| Liquid conductivity (meas)   | +5/+0.7         | Rectangular  | √3      | 0.6                  | +1.7                      | +0.4                         |
| Liquid permittivity (target) | ±5.0            | Rectangular  | √3      | 0.6                  | ±1.7                      | ±1.7                         |
| Liquid permittivity (meas)   | -2.3/-4.7       | Rectangular  | √3      | 0.6                  | -1.3                      | -2.7                         |
| Phantom and Tissue           |                 |              |         |                      | ±4                        | ±4.3                         |
| parameter Uncertainty        |                 |              |         |                      |                           |                              |
| Combined standard un         | certainty       |              |         |                      | ±13.2                     | ±12.9                        |
| Extended standard uncer      | rtainty(k=2)    |              |         |                      | ±26.4                     | ±25.8                        |

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#### 8 Test results

The measured 1-gram averaged SAR values of the device against the head and the body are provided in Tables 1 and 2 respectively. The humidity and ambient temperature of test facility were 40% - 42% and 21-22 °C respectively. The depth of the head tissue simulating liquid was 15.1 cm and of the muscle tissue simulating liquid was 15cm. A base station simulator was used to control the device during the SAR measurement. The phone was supplied with full-charged battery for each measurement.

For head measurement, the device was tested on the right-hand phantom (corresponding to the right side of the head) and the left-hand phantom in two phone position, cheek (touch) and tilt (cheek + 15deg). For GSM 1900 modes, the Phone was tested at the lowest, middle and highest frequencies in the transmit band.

|      | 01                  | Peak Output Power<br>(dBm) | Dhana Basisian | Li(90)          | SAR (W/kg) in 1g mass |           |
|------|---------------------|----------------------------|----------------|-----------------|-----------------------|-----------|
| Mode | Channel             |                            | Phone Position | Liquid temp(°C) | Right-hand            | Left-hand |
|      | 512                 | 20.5                       | Cheek          | 21-22           | 0.56                  | 0.87      |
|      | 512                 | 512 30,5                   | Tilt           | 21-22           | 0.64                  | 0.77      |
| 1900 | 661                 | 30,5                       | Cheek          | 21-22           | 0.45                  | 0.67      |
| GSM  | 30,3                |                            | 30,5           | Tilt            | 21-22                 | 0.75      |
|      | 810 30,5 Cheek Tilt | Cheek                      | 21-22          | 0.47            | 0.54                  |           |
|      |                     | 810 30,5                   | Tilt           | 21-22           | 0.43                  | 0.45      |

Table1: SAR measurement result for Sony Ericsson PY7A1021061 telephone. Measured against the head.

For body-worn measurements, the device was tested against flat phantom representing the user body. Under measurement the phone was put under flat section of phantom with 15mm space and the measurement provides for both front and back part of the phone to the phantom.

| Mode | Chanel         | Peak Output<br>Power(dBm)  | Phone Position              | Liquid<br>temp(°C) | SAR(W/kg)<br>in 1g mass |
|------|----------------|----------------------------|-----------------------------|--------------------|-------------------------|
|      | 512            | 30.5                       | Front to Phantom 15mm space | 22                 | 0.10                    |
|      | 312            | 30,5                       | Back to Phantom 15mm space  | 22                 | 0.36                    |
| 1900 | SM 661 30,5 Ba | 30 F                       | Front to Phantom 15mm space | 22                 | 0.11                    |
| GSM  |                | Back to Phantom 15mm space | 22                          | 0.36               |                         |
|      |                | 30 F                       | Front to Phantom 15mm space | 22                 | 0.13                    |
|      |                | 810 30,5                   | Back to Phantom 15mm space  | 22                 | 0.44                    |

Table 2: SAR measurement result for Sony Ericsson PY7A1021061 telephone. Measured against the body.



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#### 9 References

[1] R.Plicanic, "SAR Measurement Specification of Wireless Handsets", Sony Ericsson internal document LD/SEMC/GUG/N 03:141

[2] FCC, "Evaluating Compliance with FCC Guidelines for Human Exposure to Radio Frequency Electromagnetic Fields: Additional Information for Evaluating Compliance of Mobile and Portable Devices with FCC Limits for Human Exposure to Radio Frequency Emissions," Supplement C (Edition 01-01) to OET Bulletin 65 (Edition 97-01).

[3] IEEE, "Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Body Due to Wireless Communications Devices: Experimental Techniques," Std 1528-200x.



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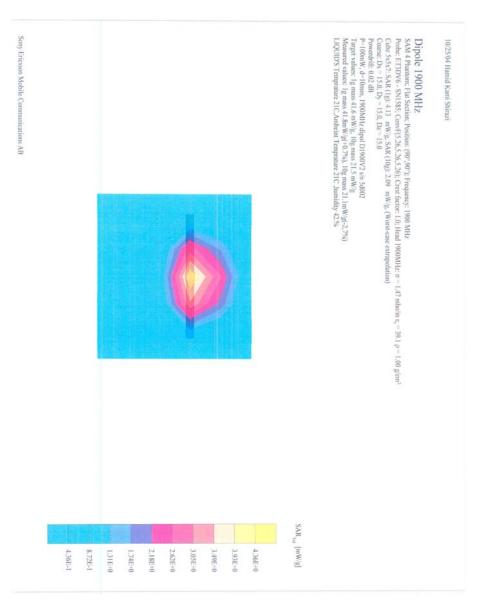
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# 10 Appendix

# 10.1 SAR distribution comparison for system accuracy verification



Validation Dipole, measured with head simulating tissue on 25/10/04



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Date/Time: 04/09/03 18:49:39

Test Laboratory: SPEAG, Zurich, Switzerland File Name: SN5d002\_SN1507\_HSL1900\_090403.da4

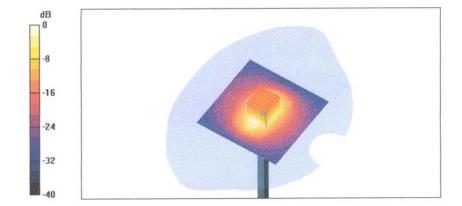
DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN5d002 Program: Dipole Calibration

Communication System: CW-1900; Frequency: 1900 MHz; Duty Cycle: 1:1 Medium: HSL 1900 MHz ( $\sigma$  = 1.44 mho/m,  $\epsilon_r$  = 38.78,  $\rho$  = 1000 kg/m³)

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 SN1507; ConvF(5.2, 5.2, 5.2); Calibrated: 1/18/2003
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 SN411; Calibrated: 1/16/2003
- Phantom: SAM with CRP TP1006; Type: SAM 4.0; Serial: TP:1006
- Measurement SW: DASY4, V4.1 Build 33; Postprocessing SW: SEMCAD, V1.6 Build 109



1900MHz SAR distribution of validation dipole from reference measurement with head simulating tissue



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Validation Dipole, measured with muscle simulating tissue on 20/10/04



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Date/Time: 04/08/03 12:31:50

Test Laboratory: SPEAG, Zurich, Switzerland File Name: SN5d002 SN1507 M1900 080403.da4

DUT: Dipole 1900 MHz; Serial: D1900V2 - SN5d002

Program: Dipole Calibration

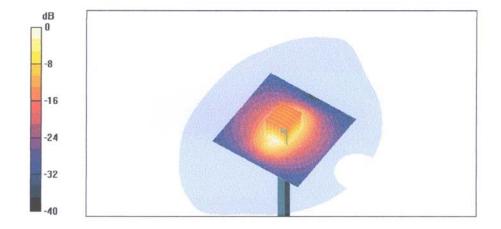
Communication System: CW-1900; Frequency: 1900 MHz; Duty Cycle: 1:1 Medium: Muscle 1900 MHz; ( $\sigma = 1.59$  mho/m,  $\epsilon_r = 51.2$ ,  $\rho = 1000$  kg/m<sup>3</sup>)

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 SN1507; ConvF(4.8, 4.8, 4.8); Calibrated: 1/18/2003
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 SN411; Calibrated: 1/16/2003
- Phantom: SAM with CRP TP1006; Type: SAM 4.0; Serial: TP:1006
- Measurement SW: DASY4, V4.1 Build 33; Postprocessing SW: SEMCAD, V1.6 Build 109

Pin = 250 mW; d = 10 mm/Area Scan (81x81x1): Measurement grid: dx=15mm, dy=15mm Pin = 250 mW; d = 10 mm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 92.8 V/m Peak SAR = 18.9 W/kg SAR(1 g) = 10.8 mW/g; SAR(10 g) = 5.6 mW/g Power Drift = 0.02 dB



1900MHz SAR distribution of validation dipole from reference measurement with muscle simulating tissue



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## 10.2 **SAR** distribution plot



Distribution of max SAR in GSM 1900 mode at ch512, Measured against the head for Cheek phone position



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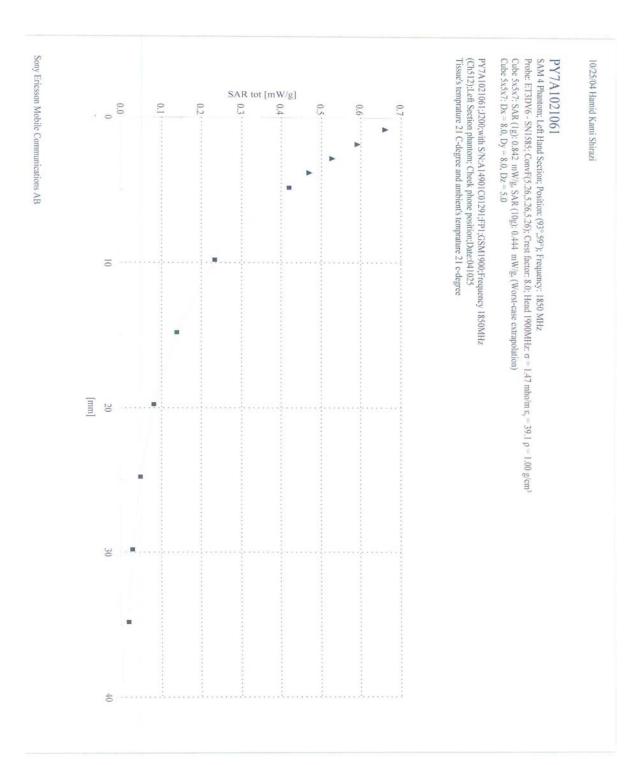
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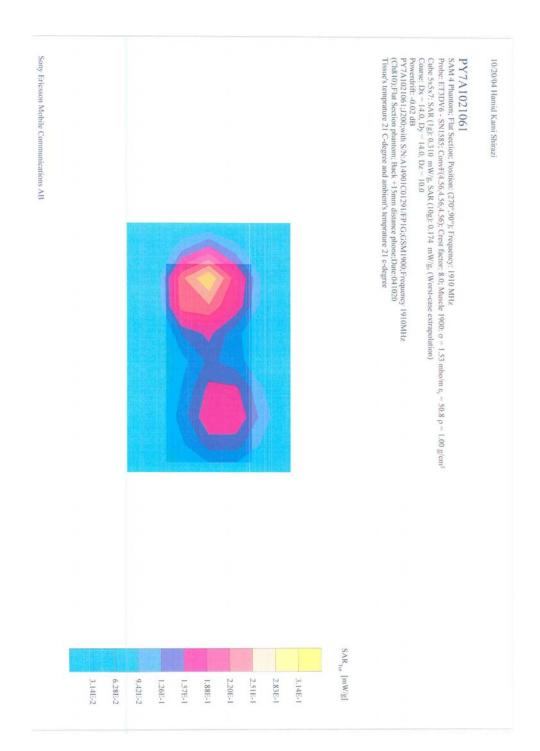
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Distribution of max SAR in GSM1900 mode at ch810, Measured against the body for back part phone with 15mm space to phantom, data communication with two time slots.



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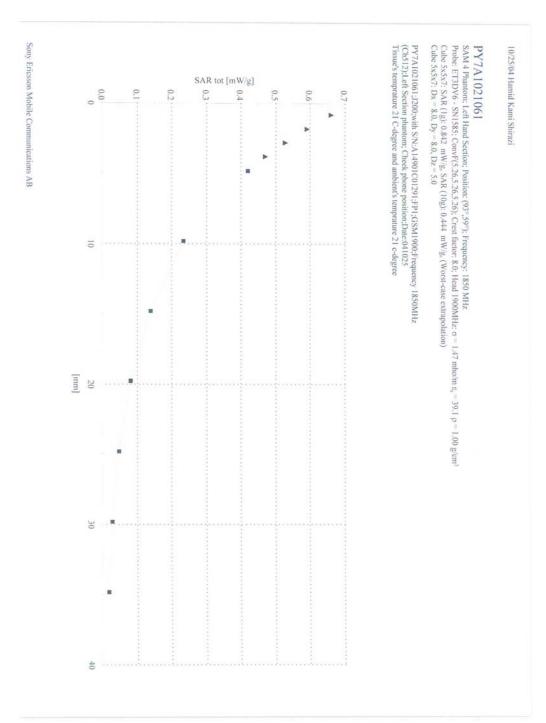
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Z(x) distribution of max SAR in GSM1900 mode at ch810, Measured against the body



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## Photographs of the device under test 10.3



Front and back view



Sides view



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Back & Battery



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# 10.4 Device position on SAM Twins Phantom

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Device position against the head: Tilt phone position



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Device position against the head: Cheek phone position



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Device position against the Body: Phone with 15mm space to phantom



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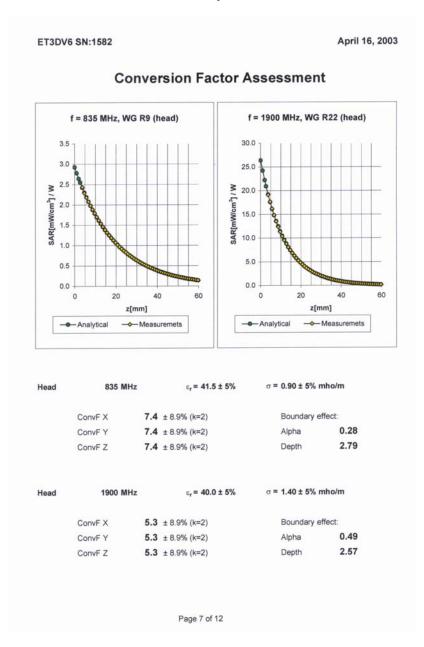
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## 10.5 Probe calibration parameters





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