FCC ID: **PY7AF061011** 



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REPORT

## Appendix 2

**SAR** distribution plots for Phantom Head Adjacent Use

**REPORT** 



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FCC ID: PY7AF061011

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## 1900 GSM Band: Distribution and Extrapolation of Maximum SAR

Model: Z502A SN: BD3017AYMN with Standard Battery: BST-35

#### Right Side, Cheek/Touch Position.

Date/Time: 06/21/04 12:47:55

File Name: 21June04\_Z502A\_GSM1900\_AYMN\_RC01.da4

Program Notes: Battery BST-35 Humidity: 41.9 Ambient Temp: 22.5 Simulant Temp: 21.7

Communication System: DCS 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8.3

Medium: Head 1800/1900 MHz Medium parameters used (interpolated): f = 1850.2 MHz; s = 1.37 mho/m;  $e_r = 1.37$  mho/m;

39.9; ? =  $1000 \text{ kg/m}^3$ 

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 SN1586; ConvF(5.14, 5.14, 5.14); Calibrated: 5/27/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn432; Calibrated: 5/24/2004
- Phantom: SAM with CRP (High Band Head); Type: SAM; Serial: TP: 1054
- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

#### Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 26.2 V/m; Power Drift = -0.1 dB

Maximum value of SAR (interpolated) = 1.3 mW/g

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 26.2 V/m; Power Drift = -0.1 dB

Maximum value of SAR (measured) = 1.47 mW/g

Peak SAR (extrapolated) = 2.2 W/kg

SAR(1 g) = 1.29 mW/g; SAR(10 g) = 0.673 mW/g

Zoom Scan (31x31x36)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 26.2 V/m; Power Drift = -0.1 dB

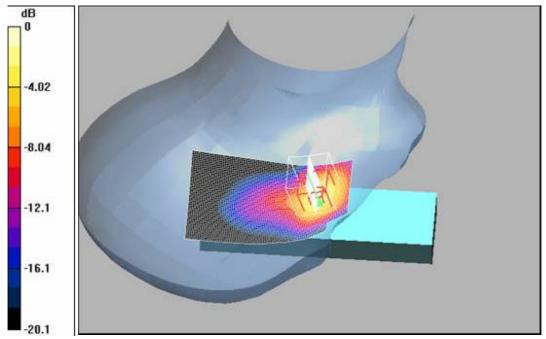
Maximum value of SAR (interpolated) = 2.2 mW/g

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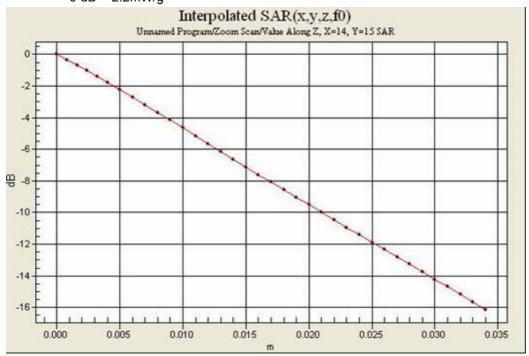


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0 dB = 2.2 mW/g



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# 1900 GSM Band: Distribution and Extrapolation of Maximum SAR Model: Z502A SN: BD3017AYMN with Standard Battery: BST-35 Right Side, Tilt Position.

Date/Time: 06/21/04 11:32:29

File Name: 21June04\_Z502A\_GSM1900\_AYMN\_RT01.da4

Program Notes: Battery BST-35 Humidity: 40.9 Ambient Temp: 23.6 Simulant Temp: 21.8

Communication System: DCS 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium: Head 1800/1900 MHz Medium parameters used: f = 1880 MHz; s = 1.4 mho/m; e<sub>r</sub> = 39.7; ? = 1000

kg/m<sup>3</sup>

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 SN1586; ConvF(5.14, 5.14, 5.14); Calibrated: 5/27/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn432; Calibrated: 5/24/2004
- Phantom: SAM with CRP (High Band Head); Type: SAM; Serial: TP: 1054
- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 9.63 V/m, Power Drift = -0.0 dB Maximum value of SAR (interpolated) = 0.221 mW/g

#### **Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.63 V/m; Power Drift = -0.0 dB Maximum value of SAR (measured) = 0.224 mW/g Peak SAR (extrapolated) = 0.302 W/kg

SAR(1 g) = 0.205 mW/g; SAR(10 g) = 0.129 mW/g

**Zoom Scan (31x31x36)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.63 V/m; Power Drift = -0.0 dB

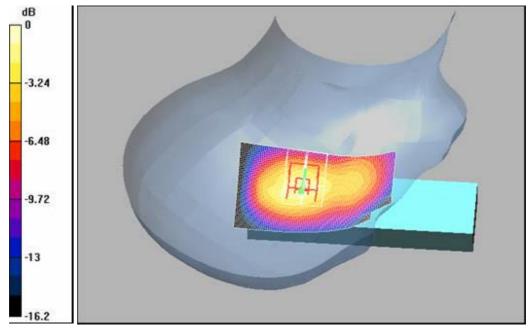
Maximum value of SAR (interpolated) = 0.302 mW/g

FCC ID: **PY7AF061011** 

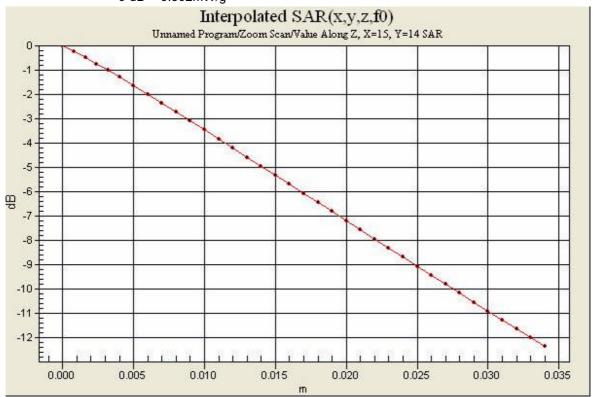
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0 dB = 0.302 mW/g



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FCC ID: PY7AF061011

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### 1900 GSM Band: Distribution and Extrapolation of Maximum SAR

Model: Z502A SN: BD3017AYMN with Standard Battery: BST-35

#### Left Side, Cheek/Touch Position.

Date/Time: 06/21/04 08:41:22

File Name: 21June04\_Z502A\_GSM1900\_AYMN\_LC01.da4

Program Notes: Battery BST-35 Humidity: 43.9 Ambient Temp: 23.5 Simulant Temp: 21.7

Communication System: DCS 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8.3

Medium: Head 1800/1900 MHz Medium parameters used (interpolated): f = 1850.2 MHz; s = 1.37 mho/m;  $e_r = 1.37$  mho/m;

39.9; ? =  $1000 \text{ kg/m}^3$ 

Phantom section: Left Section DASY4 Configuration:

- Probe: ET3DV6 - SN1586; ConvF(5.14, 5.14, 5.14); Calibrated: 5/27/2004

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn432; Calibrated: 5/24/2004

- Phantom: SAM with CRP (High Band Head); Type: SAM; Serial: TP: 1054

- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 27.4 V/m; Power Drift = -0.1 dB

Maximum value of SAR (interpolated) = 1.42 mW/g

**Zoom Scan** (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 27.4 V/m; Power Drift = -0.1 dB

Maximum value of SAR (measured) = 1.62 mW/g

Peak SAR (extrapolated) = 2.5 W/kg

SAR(1 g) = 1.42 mW/g; SAR(10 g) = 0.713 mW/g

Zoom Scan (31x31x36)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

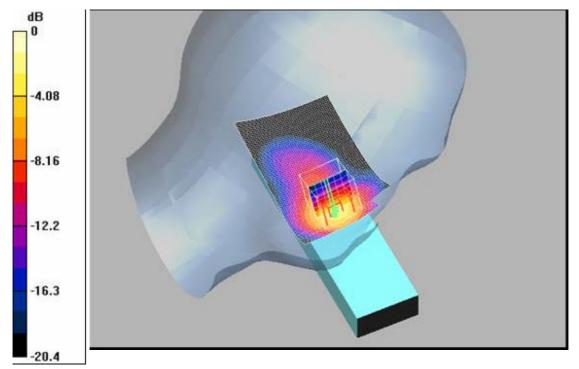
Reference Value = 27.4 V/m; Power Drift = -0.1 dB

Maximum value of SAR (interpolated) = 2.5 mW/g

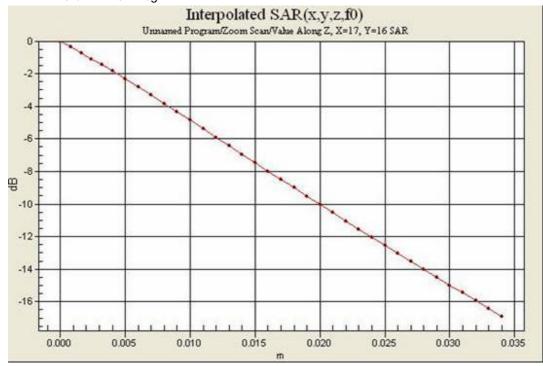
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0 dB = 2.5 mW/g



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# 1900 GSM Band: Distribution and Extrapolation of Maximum SAR Model: Z502A SN: BD3017AYMN with Standard Battery: BST-35 Left Side, Tilt Position.

Date/Time: 06/21/04 09:58:13

File Name: 21June04\_Z502A\_GSM1900\_AYMN\_LT01.da4

Program Notes: Battery BST-35 Humidity: 43.6 Ambient Temp: 23.1 Simulant Temp: 21.9

Communication System: DCS 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium: Head 1800/1900 MHz Medium parameters used: f = 1880 MHz; s = 1.4 mho/m;  $e_r = 39.7$ ; ? = 1000 mHz

kg/m<sup>3</sup>

Phantom section: Left Section DASY4 Configuration:

- Probe: ET3DV6 SN1586; ConvF(5.14, 5.14, 5.14); Calibrated: 5/27/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn432; Calibrated: 5/24/2004
- Phantom: SAM with CRP (High Band Head); Type: SAM; Serial: TP: 1054
- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 9.27 V/m; Power Drift = -0.0 dB Maximum value of SAR (interpolated) = 0.235 mW/g

#### **Zoom Scan** (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.27 V/m; Power Drift = -0.0 dB Maximum value of SAR (measured) = 0.232 mW/g Peak SAR (extrapolated) = 0.312 W/kg

#### SAR(1 g) = 0.216 mW/g; SAR(10 g) = 0.135 mW/g

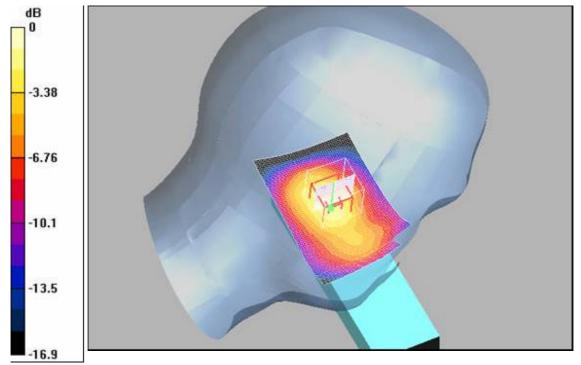
Zoom Scan (31x31x36)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.27 V/m; Power Drift = -0.0 dB Maximum value of SAR (interpolated) = 0.312 mW/g

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0 dB = 0.312 mW/g

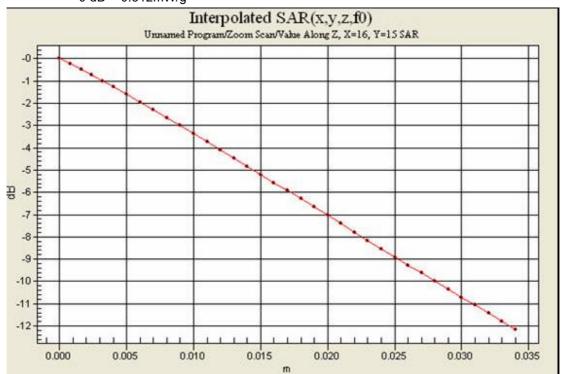


Exhibit 11

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#### 1900 GSM Band: Distribution and Extrapolation of Maximum SAR

Model: Z502A SN: BD3017AYMN with Optional Battery: BST-30

#### Right Side, Cheek/Touch Position.

Date/Time: 07/22/04 10:01:29

File Name: 22July04\_Z502A\_GSM1900\_AYMN\_RC01.da4

Program Notes: Battery BST-30 Humidity: 42.8 Ambient Temp: 23 Simulant Temp: 22.3

Communication System: DCS 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8.3

Medium: Head 1800/1900 MHz Medium parameters used (interpolated): f = 1850.2 MHz; s = 1.39 mho/m; e<sub>r</sub> =

38.3; ? =  $1000 \text{ kg/m}^3$ 

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 SN1538; ConvF(4.95, 4.95, 4.95); Calibrated: 5/27/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn431; Calibrated: 5/26/2004
- Phantom: SAM with CRP (High Band Head); Type: SAM; Serial: TP: 1054
- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

#### Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 26.5 V/m; Power Drift = -0.2 dB

Maximum value of SAR (interpolated) = 1.3 mW/g

#### **Zoom Scan** (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 26.5 V/m; Power Drift = -0.2 dB

Maximum value of SAR (measured) = 1.5 mW/g

Peak SAR (extrapolated) = 2.28 W/kg

SAR(1 g) = 1.3 mW/g; SAR(10 g) = 0.676 mW/g

Zoom Scan (31x31x36)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 26.5 V/m; Power Drift = -0.2 dB

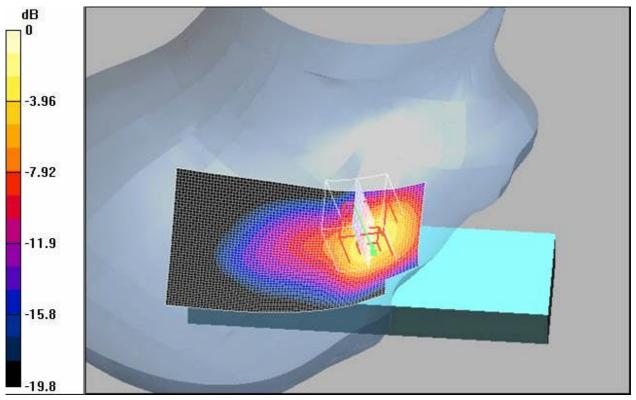
Maximum value of SAR (interpolated) = 2.28 mW/g

#### FCC ID: **PY7AF061011**

## Sony Ericsson

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0 dB = 2.28 mW/g

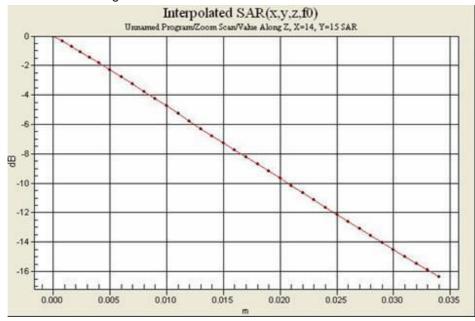


Exhibit 11

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#### 1900 GSM Band: Distribution and Extrapolation of Maximum SAR

Model: Z502A SN: BD3017AYMN with Optional Battery: BST-30

Right Side, Tilt Position.

Date/Time: 07/22/04 12:07:06

File Name: 22July04\_Z502A\_GSM1900\_AYMN\_RT01.da4

DUT: Z502A; Type: Sample

Program Notes: Battery BST-30 Humidity: 49.7 Ambient Temp: 22.7 Simulant Temp: 21.2

Communication System: DCS 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8.3

Medium: Head 1800/1900 MHz Medium parameters used (interpolated): f = 1850.2 MHz; s = 1.39 mho/m; e<sub>r</sub> =

38.3; ? =  $1000 \text{ kg/m}^3$ 

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1538; ConvF(4.95, 4.95, 4.95); Calibrated: 5/27/2004

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn431; Calibrated: 5/26/2004

- Phantom: SAM with CRP (High Band Head); Type: SAM; Serial: TP: 1054

- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

#### Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 9.87 V/m; Power Drift = -0.0 dB Maximum value of SAR (interpolated) = 0.208 mW/g

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.87 V/m; Power Drift = -0.0 dB

Maximum value of SAR (measured) = 0.209 mW/g

Peak SAR (extrapolated) = 0.277 W/kg

SAR(1 g) = 0.191 mW/g; SAR(10 g) = 0.121 mW/g

**Zoom Scan (31x31x36)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.87 V/m; Power Drift = -0.0 dB

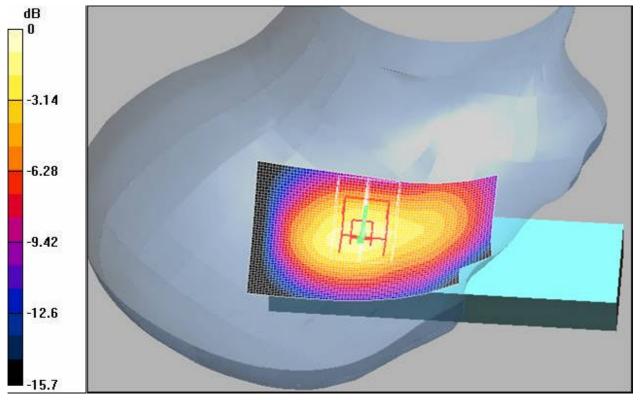
Maximum value of SAR (interpolated) = 0.277 mW/g

FCC ID: **PY7AF061011** 

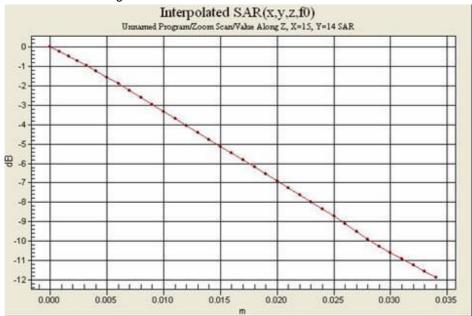
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0 dB = 0.277 mW/g



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#### 1900 GSM Band: Distribution and Extrapolation of Maximum SAR

Model: Z502A SN: BD3017AYMN with Optional Battery: BST-30

#### Left Side, Cheek/Touch Position.

Date/Time: 07/22/04 14:16:19

File Name: 22July04\_Z502A\_GSM1900\_AYMN\_LC01.da4

Program Notes: Battery BST-30 Humidity: 47.2 Ambient Temp: 22.8 Simulant Temp: 21.4

Communication System: DCS 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8.3

Medium: Head 1800/1900 MHz Medium parameters used (interpolated): f = 1850.2 MHz; s = 1.39 mho/m; e<sub>r</sub> =

38.3; ? =  $1000 \text{ kg/m}^3$ 

Phantom section: Left Section DASY4 Configuration:

- Probe: ET3DV6 - SN1538; ConvF(4.95, 4.95, 4.95); Calibrated: 5/27/2004

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn431; Calibrated: 5/26/2004

- Phantom: SAM with CRP (High Band Head); Type: SAM; Serial: TP: 1054

- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 24.4 V/m; Power Drift = -0.1 dB

Maximum value of SAR (interpolated) = 1.3 mW/g

**Zoom Scan** (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 24.4 V/m; Power Drift = -0.1 dB

Maximum value of SAR (measured) = 1.58 mW/g

Peak SAR (extrapolated) = 2.5 W/kg

SAR(1 g) = 1.4 mW/g; SAR(10 g) = 0.699 mW/g

**Zoom Scan (31x31x36)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 24.4 V/m; Power Drift = -0.1 dB

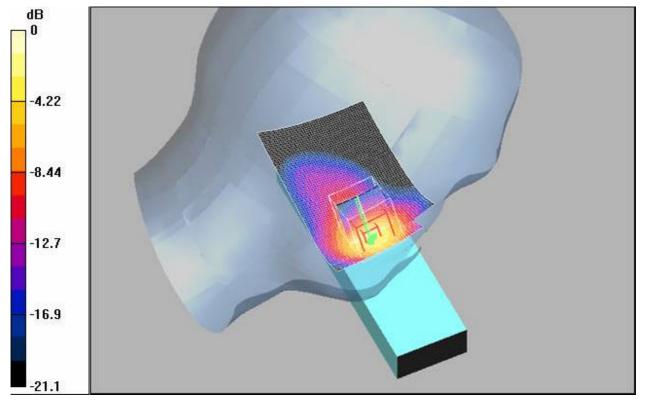
Maximum value of SAR (interpolated) = 2.5 mW/g

#### FCC ID: **PY7AF061011**



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				Reports/FCC2502A.doc



0 dB = 2.5 mW/g

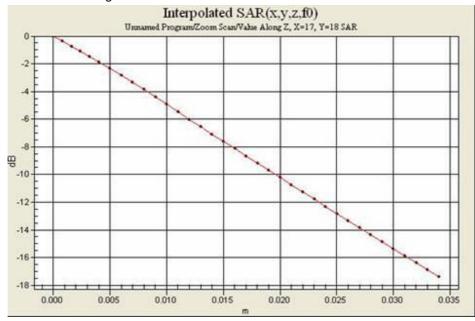


Exhibit 11

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1900 GSM Band: Distribution and Extrapolation of Maximum SAR

Model: Z502A SN: BD3017AYMN with Optional Battery: BST-30

Left Side, Tilt Position.

Date/Time: 07/22/04 13:11:15

File Name: 22July04\_Z502A\_GSM1900\_AYMN\_LT01.da4

Program Notes: Battery BST-30 Humidity: 46.8 Ambient Temp: 22.8 Simulant Temp: 21

Communication System: DCS 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8.3

Medium: Head 1800/1900 MHz Medium parameters used (interpolated): f = 1850.2 MHz; s = 1.39 mho/m; e<sub>r</sub> =

38.3; ? =  $1000 \text{ kg/m}^3$ 

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 SN1538; ConvF(4.95, 4.95, 4.95); Calibrated: 5/27/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn431; Calibrated: 5/26/2004
- Phantom: SAM with CRP (High Band Head); Type: SAM; Serial: TP: 1054
- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 9.67 V/m; Power Drift = 0.0 dB

Maximum value of SAR (interpolated) = 0.228 mW/g

**Zoom Scan** (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.67 V/m; Power Drift = 0.0 dB

Maximum value of SAR (measured) = 0.228 mW/g

Peak SAR (extrapolated) = 0.304 W/kg

SAR(1 g) = 0.211 mW/g; SAR(10 g) = 0.132 mW/g

**Zoom Scan (31x31x36)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.67 V/m; Power Drift = 0.0 dB

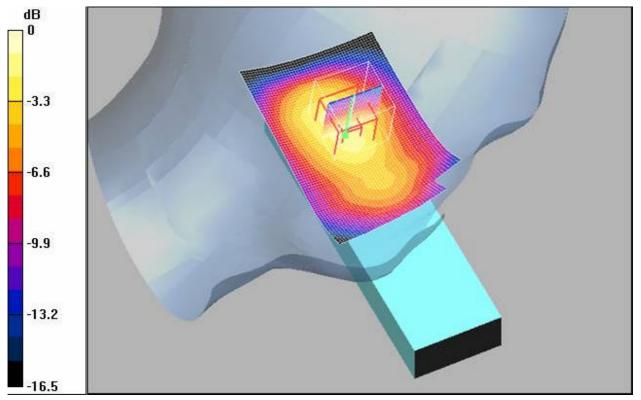
Maximum value of SAR (interpolated) = 0.304 mW/g

#### FCC ID: **PY7AF061011**



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0 dB = 0.304 mW/g

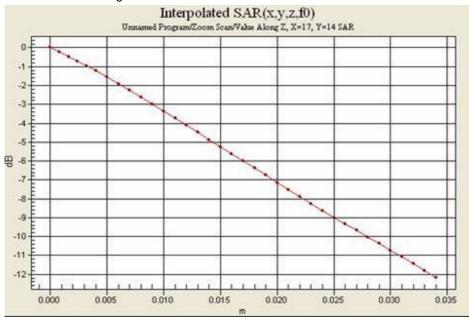


Exhibit 11

FCC ID: **PY7AF061011** 



41(87)

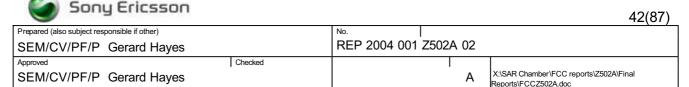
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Prepared (also subject responsible if other)		No.		
SEM/CV/PF/P Gerard Hayes		REP 2004 001	Z502A 02	
Approved	Checked			
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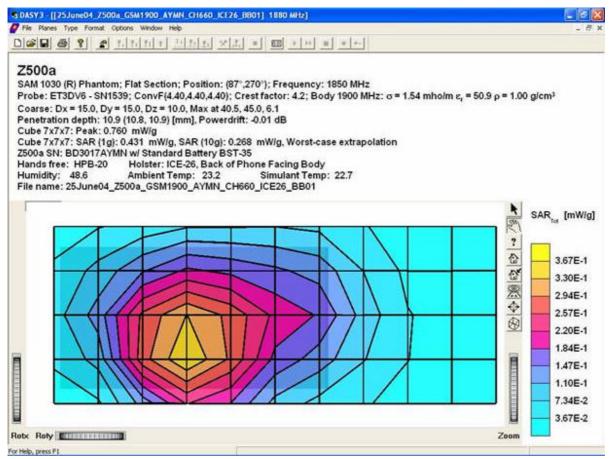
## Appendix 3

**SAR** distribution plots for Body Worn Configuration

#### FCC ID: PY7AF061011

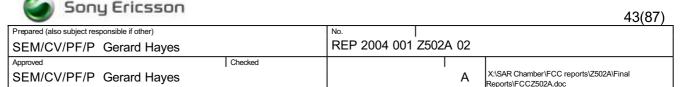
**REPORT** 

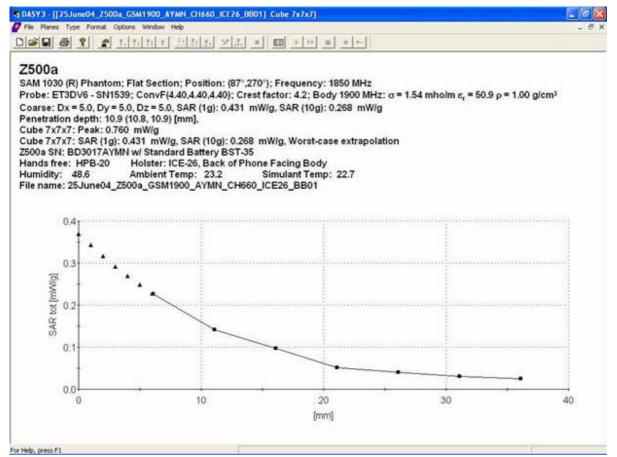




Distribution of maximum SAR in 1900 GSM band. Measured with back of device facing the body using carry accessory ICE-26 and hands free accessory HPB-20. (Standard Battery, BST-35)

FCC ID: PY7AF061011





SAR Extrapolation to the phantom inner surface. Measured for maximum SAR in 1900 GSM band, while back of the phone is against the body using carry accessory ICE-26 and hands free accessory HPB-20. (Standard Battery, BST-35)

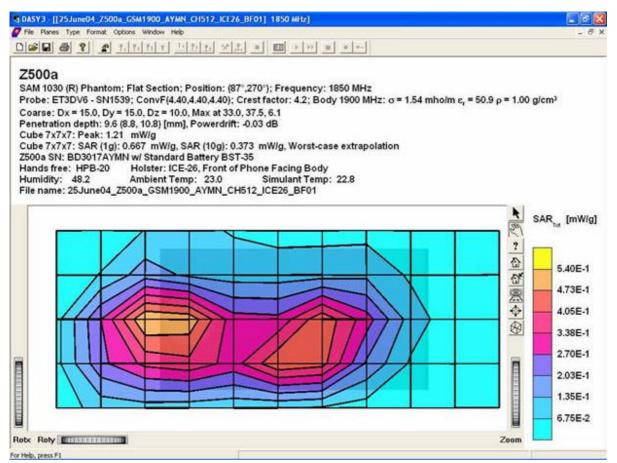
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44(87)

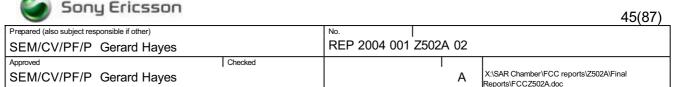
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Prepared (also subject responsible if other)		No.		
SEM/CV/PF/P Gerard Hayes		REP 2004 001 Z	502A 02	
Approved	Checked			
SEM/CV/PF/P Gerard Hayes				X:\SAR Chamber\FCC reports\Z502A\Final Reports\FCCZ502A.doc

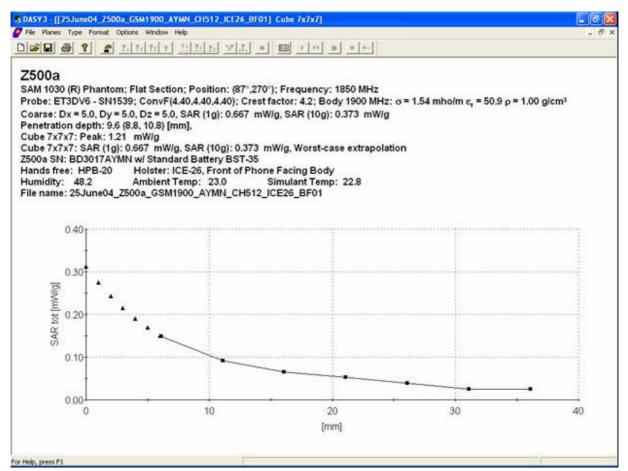


Distribution of maximum SAR in 1900 GSM band. Measured with front of device facing the body using carry accessory ICE-26 and hands free accessory HPB-20. (Standard Battery, BST-35)

FCC ID: PY7AF061011

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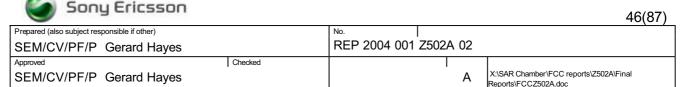


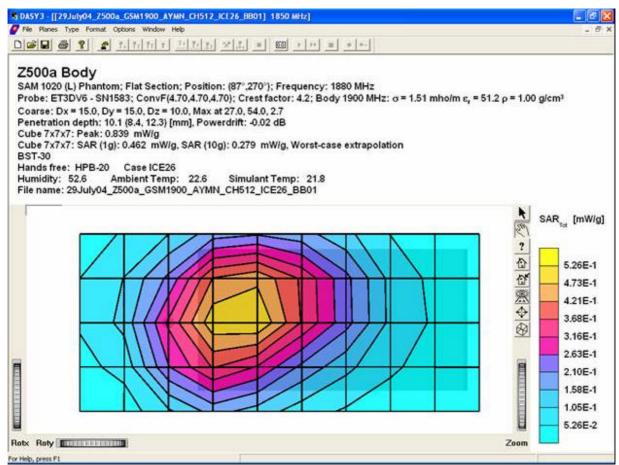


SAR Extrapolation to the phantom inner surface. Measured for maximum SAR in 1900 GSM band, while front of the phone is against the body using carry accessory ICE-26 and hands free accessory HPB-20. (Standard Battery, BST-35)

FCC ID: PY7AF061011

**REPORT** 

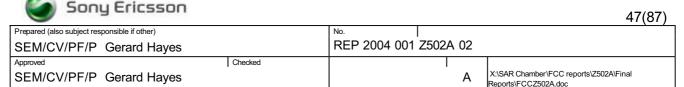


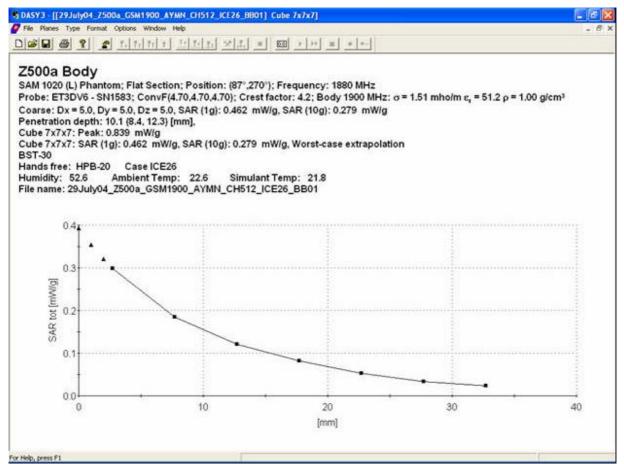


Distribution of maximum SAR in 1900 GSM band. Measured for maximum SAR in 1900 GSM band, while back of the phone is against the body using carry accessory ICE-26 and hands free accessory HPB-20. (Optional Battery, BST-30)

FCC ID: PY7AF061011

**REPORT** 

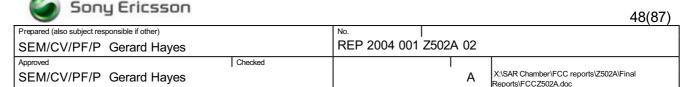


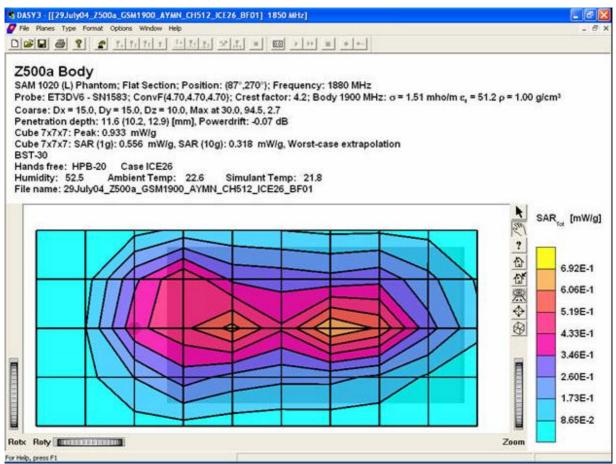


SAR Extrapolation to the phantom inner surface. Measured for maximum SAR in 1900 GSM band, while back of the phone is against the body using carry accessory ICE-26 and hands free accessory HPB-20. (Optional Battery, BST-30)

FCC ID: **PY7AF061011** 

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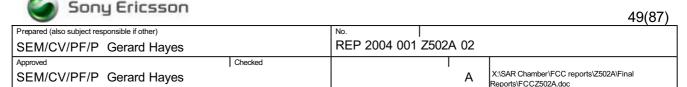


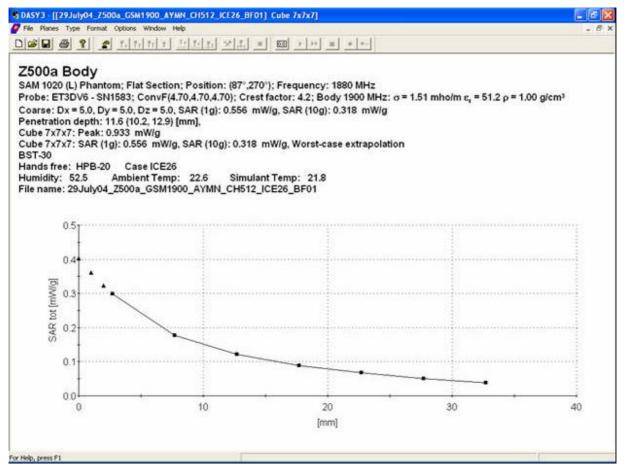


Distribution of maximum SAR in 1900 GSM band. Measured for maximum SAR in 1900 GSM band, while front of the phone is against the body using carry accessory ICE-26 and hands free accessory HPB-20. (Optional Battery, BST-30)

FCC ID: PY7AF061011

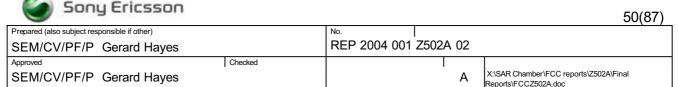
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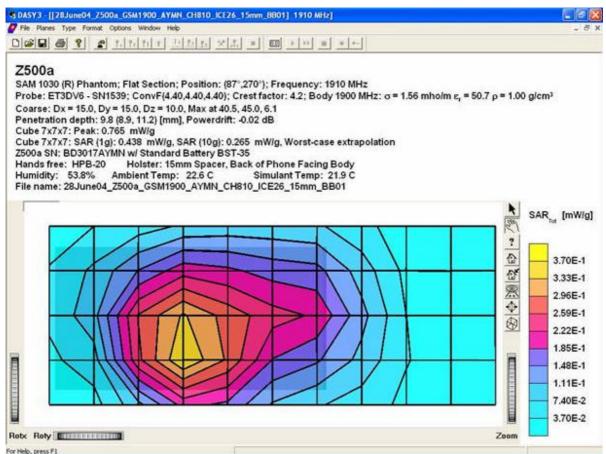




SAR Extrapolation to the phantom inner surface. Measured for maximum SAR in 1900 GSM band, while front of the phone is against the body using carry accessory ICE-26 and hands free accessory HPB-20. (Optional Battery, BST-30)

#### **REPORT**





Distribution of maximum SAR in 1900 GSM band. Measured with back of device facing the body using a 15 mm spacer and hands free accessory HPB-20. (Standard Battery, BST-35)

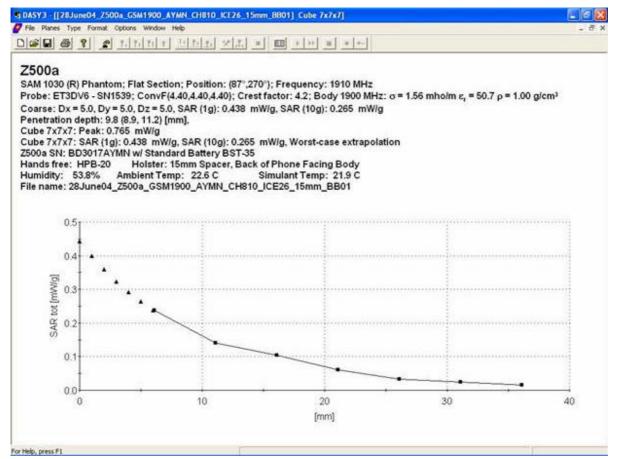
FCC ID: PY7AF061011

**REPORT** 



51(87)

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Prepared (also subject responsible if other)		No.		
SEM/CV/PF/P Gerard Hayes		REP 2004 001 Z	Z502A 02	
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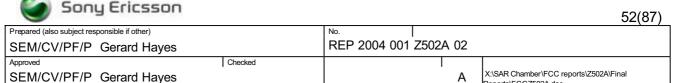


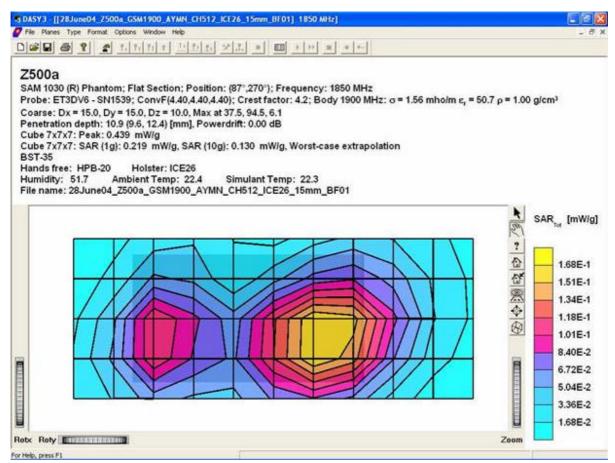
SAR Extrapolation to the phantom inner surface. Measured for maximum SAR in 1900 GSM band, while back of the phone is against the body using a 15 mm spacer and hands free accessory HPB-20. (Standard Battery, BST-35)

FCC ID: **PY7AF061011** 

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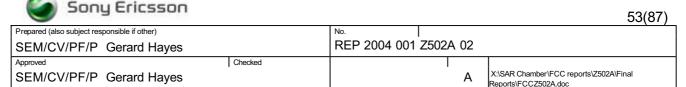
**REPORT** 

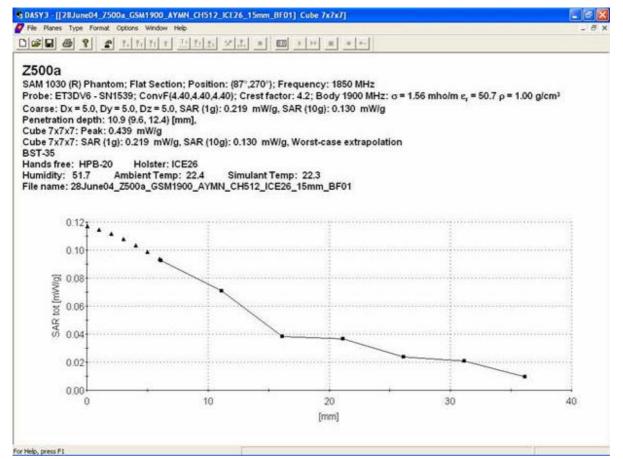




Distribution of maximum SAR in 1900 GSM band. Measured with front of device facing the body using a 15 mm spacer and hands free accessory HPB-20. (Standard Battery, BST-35)

FCC ID: **PY7AF061011** 

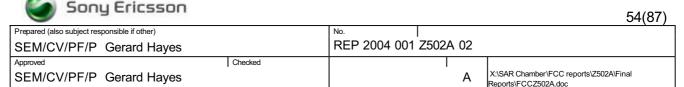


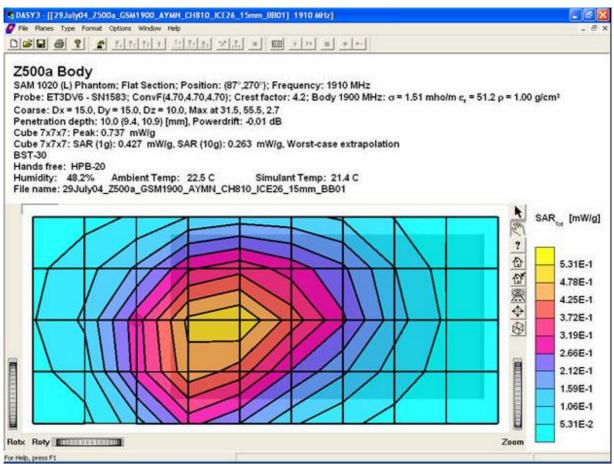


SAR Extrapolation to the phantom inner surface. Measured for maximum SAR in 1900 GSM band, while front of the phone is against the body using a 15 mm spacer and hands free accessory HPB-20. (Standard Battery, BST-35)

FCC ID: **PY7AF061011** 

**REPORT** 

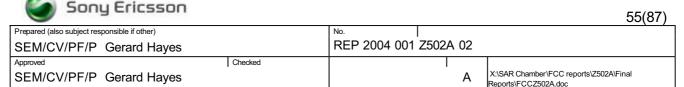


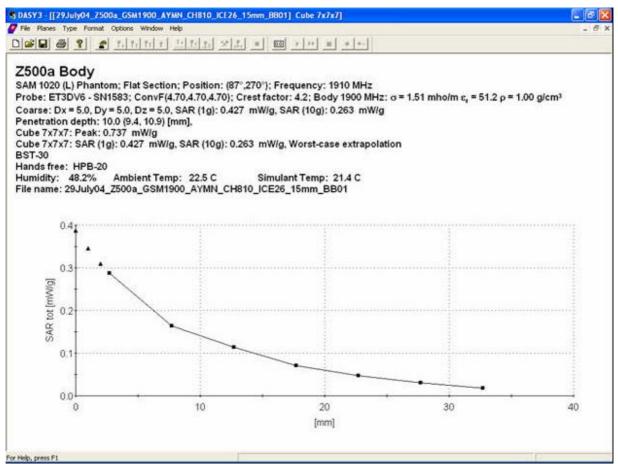


Distribution of maximum SAR in 1900 GSM band. Measured with back of device facing the body using a 15 mm spacer and hands free accessory HPB-20. (Optional Battery, BST-30)

#### FCC ID: **PY7AF061011**

**REPORT** 

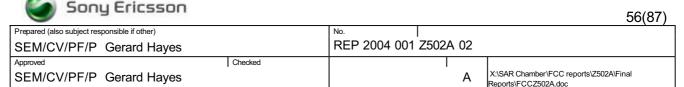


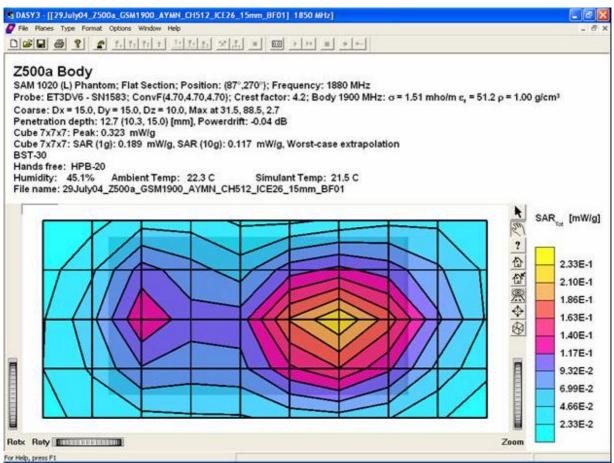


SAR Extrapolation to the phantom inner surface. Measured for maximum SAR in 1900 GSM band, while back of the phone is against the body using a 15 mm spacer and hands free accessory HPB-20. (Optional Battery, BST-30)

FCC ID: **PY7AF061011** 

**REPORT** 



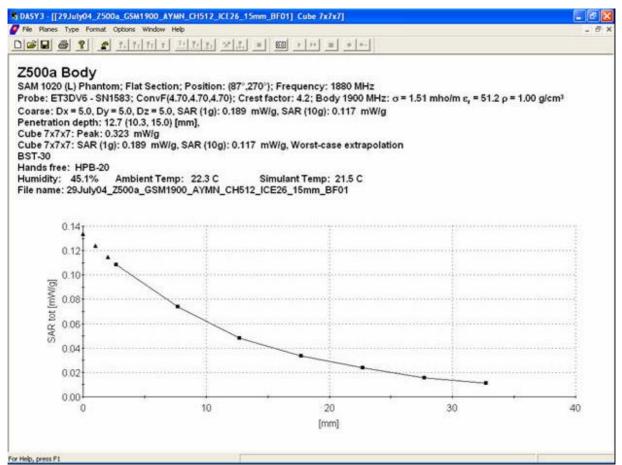


Distribution of maximum SAR in 1900 GSM band. Measured with front of device facing the body using a 15 mm spacer and hands free accessory HPB-20. (Optional Battery, BST-30)

FCC ID: PY7AF061011

**REPORT** Sony Ericsson

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Prepared (also subject responsible if other)		No.		
SEM/CV/PF/P Gerard Hayes		REP 2004 001 Z50	02A 02	
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SAR Extrapolation to the phantom inner surface. Measured for maximum SAR in 1900 GSM band, while front of the phone is against the body using a 15 mm spacer and hands free accessory HPB-20. (Optional Battery, BST-30)