

## APPENDIX B: SAR DIPOLE VERIFICATION PLOTS

# ELEMENT

**DUT: Dipole 13.0 MHz; Type: CLA-13 - SN1004**

Communication System: UID: 0, CW; Frequency: 13.0 MHz  
Medium: 30 Head; Medium parameters used:  
 $f = 13.0$  MHz;  $\text{cond} = 0.744$  S/m;  $\text{perm} = 52.6$ ;  $\text{density} = 1000$  kg/m<sup>3</sup>  
Phantom Section: Flat; Space: 0 mm

Test Date: 07/07/2025; Ambient Temp: 21.6°C; Tissue Temp: 23.2°C

Probe: EX3DV4 - SN3746; ConvF:(15.27,15.58,17.13); Calibrated 2024-10-15  
Sensor-Surface: 1.4mm (All points)  
Electronics: DAE4 Sn1237; Calibrated 2024-10-10  
Phantom: ELI V6.0; Serial: 2003  
Measurement SW: DASY Module SAR V16.4.0.5005

## 13.0 MHz System Verification at 30.0 dBm (1000 mW)

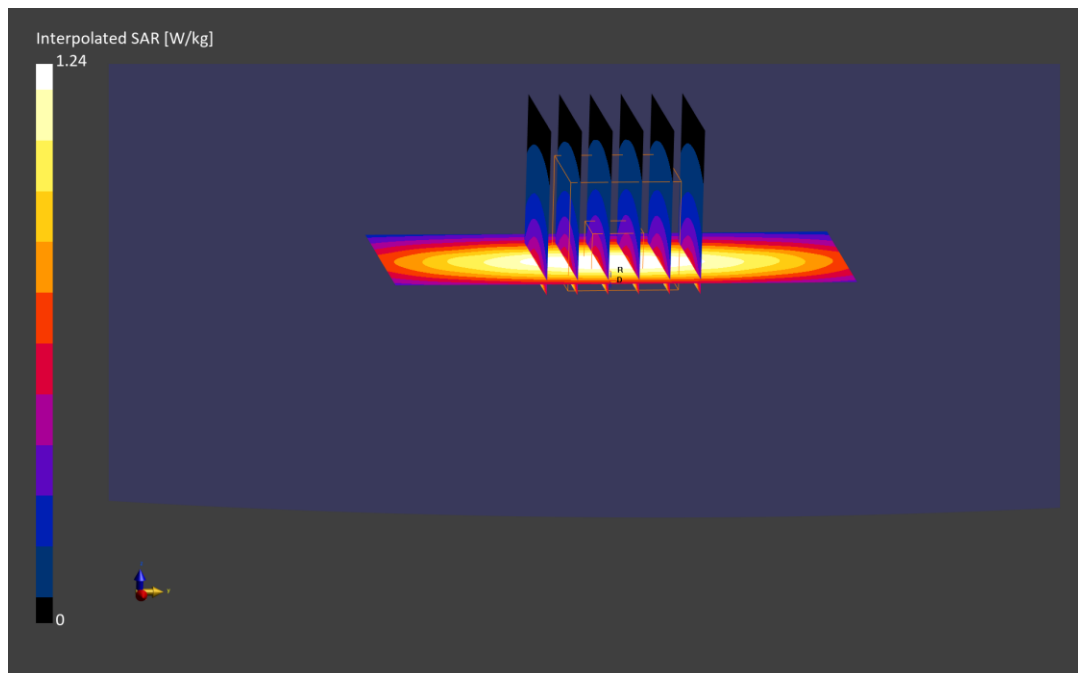
**Area Scan (40.0 x 90.0):** Measurement grid:  $dx=10.0$  mm,  $dy=15.0$  mm

**Zoom Scan (30.0 x 30.0 x 31.2):** Measurement grid:  $dx=6.0$  mm,  $dy=6.0$  mm,  $dz=1.5$  mm; Graded Ratio: 1.5

Peak SAR (extrapolated) = 1.24 W/kg

**SAR(10 g) = 0.373 W/kg**

Deviation (10 g) = 5.07%



# ELEMENT

**DUT: Dipole 2450.0 MHz; Type: D2450V2 - SN750**

Communication System: UID: 0, CW; Frequency: 2450.0 MHz

Medium: 2450 Head; Medium parameters used:

$f = 2450.0$  MHz;  $\text{cond} = 1.81$  S/m;  $\text{perm} = 39.8$ ;  $\text{density} = 1000$  kg/m<sup>3</sup>

Phantom Section: Flat; Space: 10 mm

Test Date: 06/16/2025; Ambient Temp: 22.1°C; Tissue Temp: 22.0°C

Probe: EX3DV4 - SN7551; ConvF:(6.98,6.91,7.1); Calibrated 2025-04-16

Sensor-Surface: 1.4mm (VMS + 6p)

Electronics: DAE4 Sn1323; Calibrated 2025-04-15

Phantom: Twin-SAM V4.0; Serial: 1447

Measurement SW: DASY Module SAR V16.4.0.5005

## 2450.0 MHz System Verification at 20.0 dBm (100 mW)

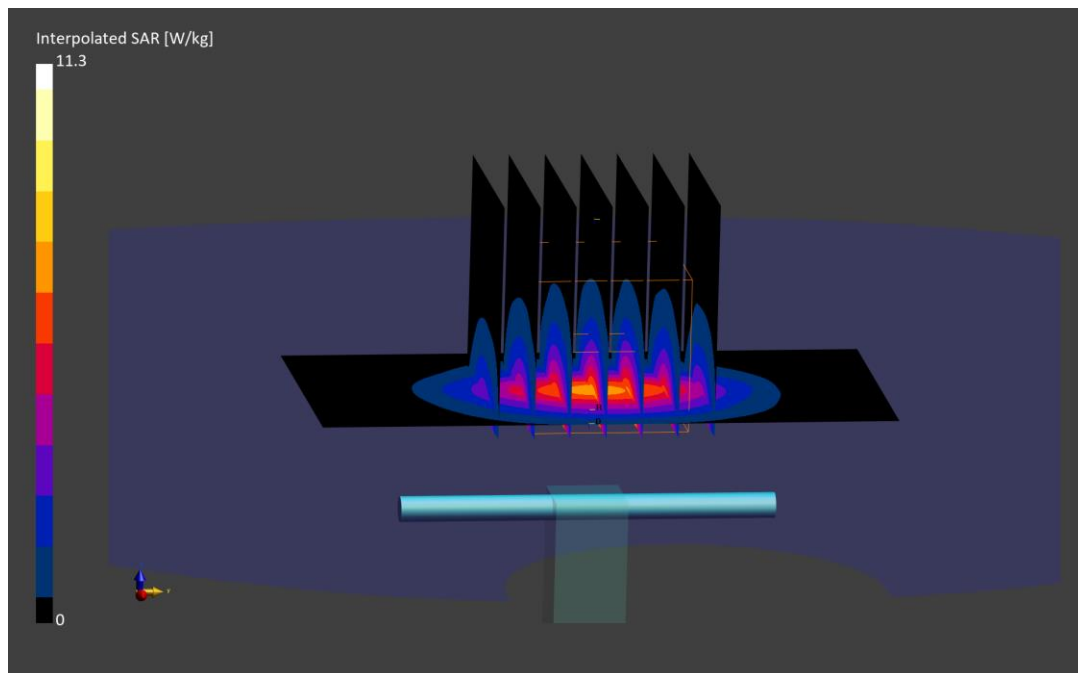
**Area Scan (40.0 x 80.0):** Measurement grid:  $dx=10.0$  mm,  $dy=10.0$  mm

**Zoom Scan (30.0 x 30.0 x 31.2):** Measurement grid:  $dx=5.0$  mm,  $dy=5.0$  mm,  $dz=1.5$  mm; Graded Ratio: 1.5

Peak SAR (extrapolated) = 11.3 W/kg

**SAR(1 g) = 5.60 W/kg; SAR(10 g) = 2.60 W/kg**

Deviation (1 g) = 5.07%; Deviation (10 g) = 3.59%



# ELEMENT

**DUT: Dipole 5250.0 MHz; Type: D5GHzV2 - SN1163**

Communication System: UID: 0, CW; Frequency: 5250.0 MHz

Medium: 5200-5850 Head; Medium parameters used:

$f = 5250.0$  MHz;  $\text{cond} = 4.65$  S/m;  $\text{perm} = 36.5$ ;  $\text{density} = 1000$  kg/m<sup>3</sup>

Phantom Section: Flat; Space: 10 mm

Test Date: 06/27/2025; Ambient Temp: 20.8°C; Tissue Temp: 19.2°C

Probe: EX3DV4 - SN7499; ConvF:(5.42,5.54,5.73); Calibrated 2025-01-14

Sensor-Surface: 1.4mm (VMS + 6p)

Electronics: DAE4 Sn1465; Calibrated 2025-01-08

Phantom: Twin-SAM V8.0; Serial: 2070

Measurement SW: DASY Module SAR V16.4.0.5005

## 5250.0 MHz System Verification at 17.0 dBm (50 mW)

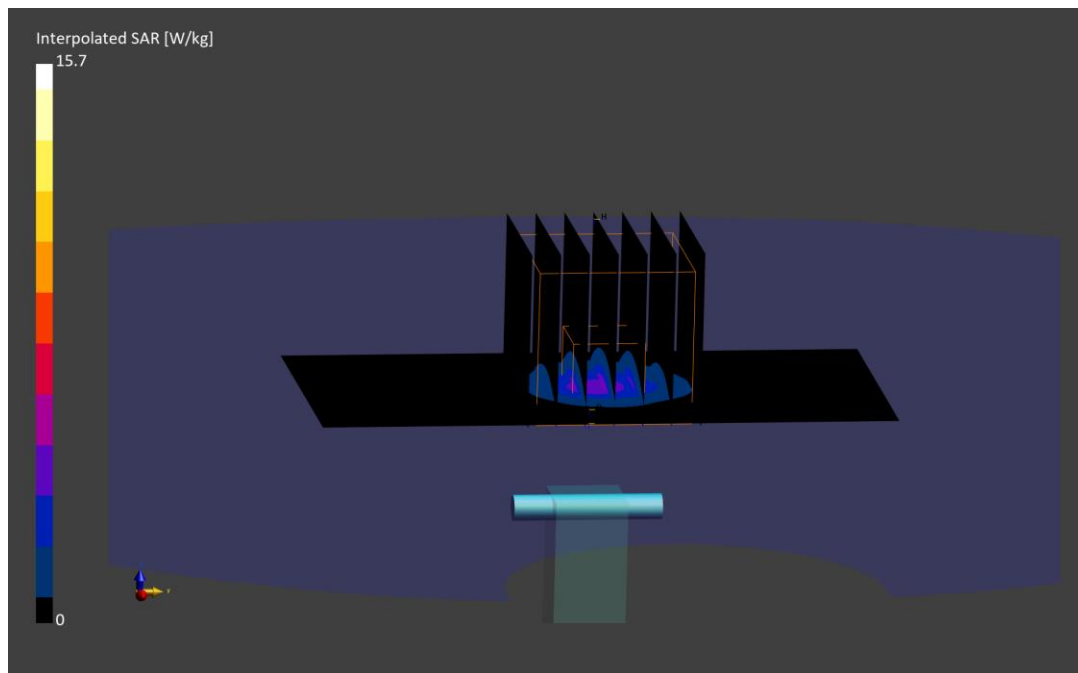
**Area Scan (40.0 x 80.0):** Measurement grid:  $dx=10.0$  mm,  $dy=10.0$  mm

**Zoom Scan (24.0 x 24.0 x 22.9):** Measurement grid:  $dx=4.0$  mm,  $dy=4.0$  mm,  $dz=1.4$  mm; Graded Ratio: 1.4

Peak SAR (extrapolated) = 15.7 W/kg

**SAR(1 g) = 3.84 W/kg; SAR(10 g) = 1.12 W/kg**

Deviation (1 g) = -2.54%; Deviation (10 g) = 0.45%



# ELEMENT

**DUT: Dipole 5600.0 MHz; Type: D5GHzV2 - SN1163**

Communication System: UID: 0, CW; Frequency: 5600.0 MHz  
Medium: 5200-5850 Head; Medium parameters used:  
f = 5600.0 MHz; cond = 5.05 S/m; perm = 35.8; density = 1000 kg/m<sup>3</sup>  
Phantom Section: Flat; Space: 10 mm

Test Date: 06/27/2025; Ambient Temp: 20.8°C; Tissue Temp: 19.2°C

Probe: EX3DV4 - SN7499; ConvF:(4.83,4.94,5.11); Calibrated 2025-01-14  
Sensor-Surface: 1.4mm (VMS + 6p)  
Electronics: DAE4 Sn1465; Calibrated 2025-01-08  
Phantom: Twin-SAM V8.0; Serial: 2070  
Measurement SW: DASY Module SAR V16.4.0.5005

## 5600.0 MHz System Verification at 17.0 dBm (50 mW)

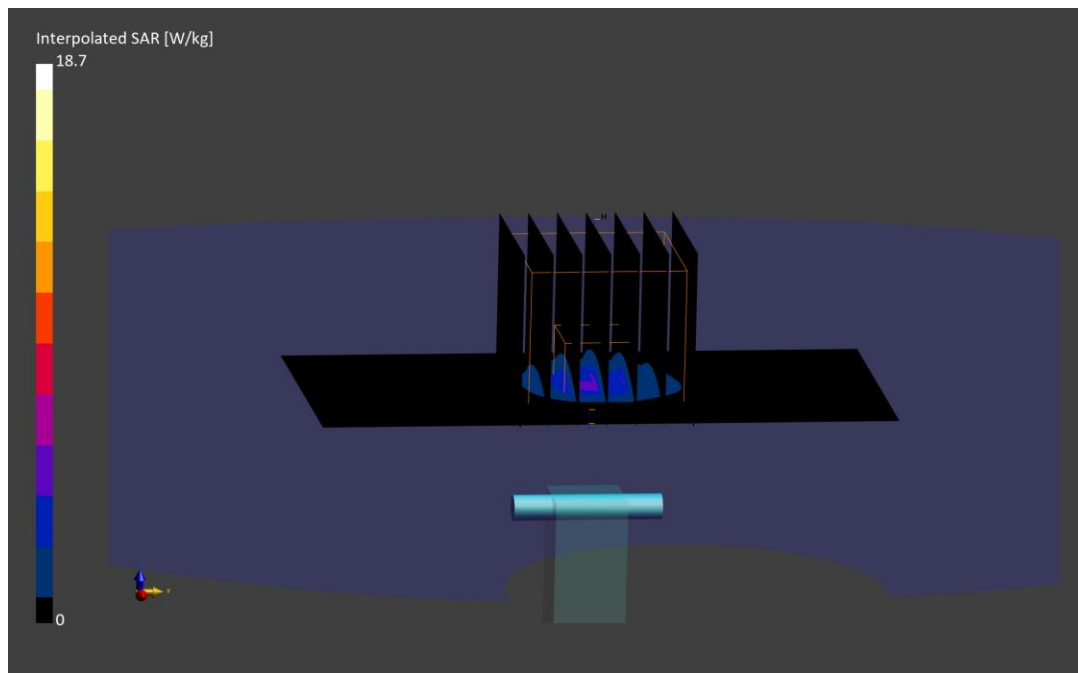
**Area Scan (40.0 x 80.0):** Measurement grid: dx=10.0 mm, dy=10.0 mm

**Zoom Scan (24.0 x 24.0 x 22.9):** Measurement grid: dx=4.0 mm, dy=4.0 mm, dz=1.4 mm; Graded Ratio: 1.4

Peak SAR (extrapolated) = 18.7 W/kg

**SAR(1 g) = 4.21 W/kg; SAR(10 g) = 1.21 W/kg**

Deviation (1 g) = 4.08%; Deviation (10 g) = 5.22%



# ELEMENT

**DUT: Dipole 5750.0 MHz; Type: D5GHzV2 - SN1163**

Communication System: UID: 0, CW; Frequency: 5750.0 MHz

Medium: 5200-5850 Head; Medium parameters used:

$f = 5750.0$  MHz;  $\text{cond} = 5.23$  S/m;  $\text{perm} = 35.5$ ;  $\text{density} = 1000$  kg/m<sup>3</sup>

Phantom Section: Flat; Space: 10 mm

Test Date: 06/27/2025; Ambient Temp: 20.8°C; Tissue Temp: 19.2°C

Probe: EX3DV4 - SN7499; ConvF:(4.93,5.05,5.22); Calibrated 2025-01-14

Sensor-Surface: 1.4mm (VMS + 6p)

Electronics: DAE4 Sn1465; Calibrated 2025-01-08

Phantom: Twin-SAM V8.0; Serial: 2070

Measurement SW: DASY Module SAR V16.4.0.5005

## 5750.0 MHz System Verification at 17.0 dBm (50 mW)

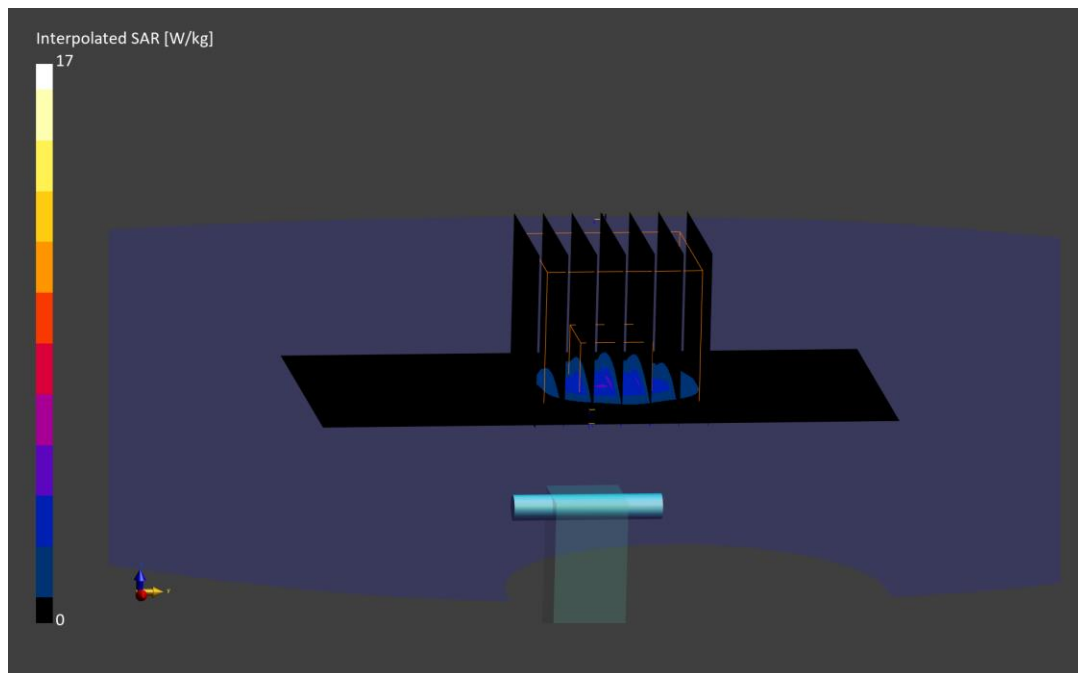
**Area Scan (40.0 x 80.0):** Measurement grid:  $dx=10.0$  mm,  $dy=10.0$  mm

**Zoom Scan (24.0 x 24.0 x 22.9):** Measurement grid:  $dx=4.0$  mm,  $dy=4.0$  mm,  $dz=1.4$  mm; Graded Ratio: 1.4

Peak SAR (extrapolated) = 17.0 W/kg

**SAR(1 g) = 3.73 W/kg; SAR(10 g) = 1.08 W/kg**

Deviation (1 g) = -4.48%; Deviation (10 g) = -2.26%



# ELEMENT

**DUT: Dipole 5750.0 MHz; Type: D5GHzV2 - SN1066**

Communication System: UID: 0, CW; Frequency: 5750.0 MHz  
Medium: 5200-5850 Head; Medium parameters used:  
 $f = 5750.0$  MHz;  $\text{cond} = 5.16$  S/m;  $\text{perm} = 34.2$ ;  $\text{density} = 1000$  kg/m<sup>3</sup>  
Phantom Section: Flat; Space: 10 mm

Test Date: 07/21/2025; Ambient Temp: 20.8°C; Tissue Temp: 19.4°C

Probe: EX3DV4 - SN7499; ConvF:(4.93,5.05,5.22); Calibrated 2025-01-14  
Sensor-Surface: 1.4mm (VMS + 6p)  
Electronics: DAE4 Sn1465; Calibrated 2025-01-08  
Phantom: Twin-SAM V8.0; Serial: 2070  
Measurement SW: DASY Module SAR V16.4.0.5005

## 5750.0 MHz System Verification at 17.0 dBm (50 mW)

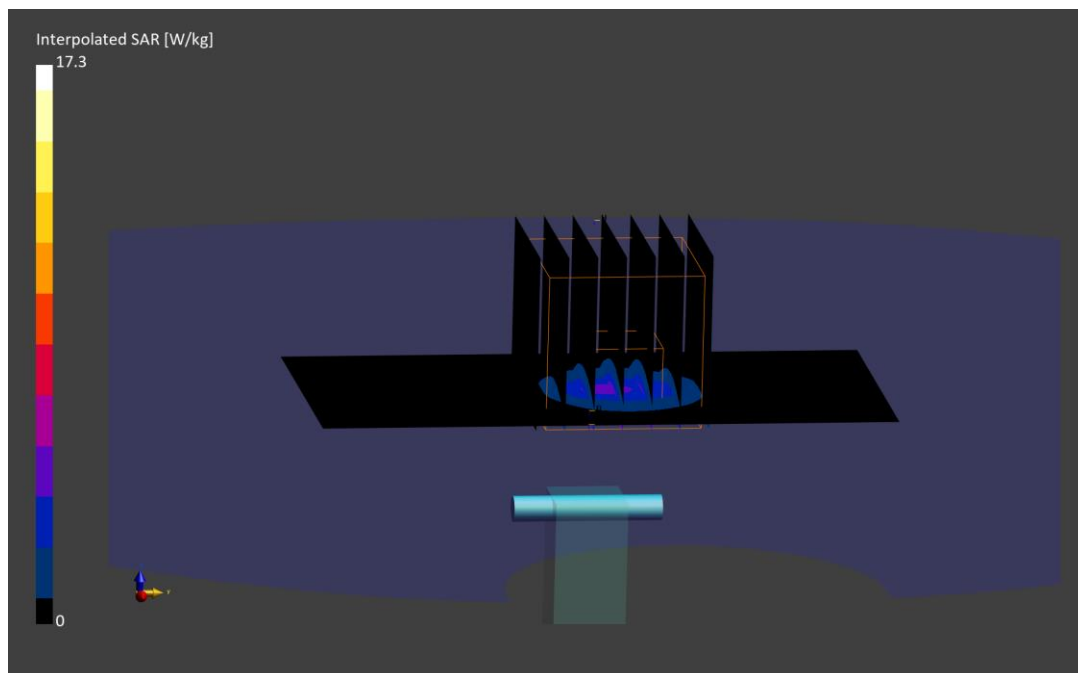
**Area Scan (40.0 x 80.0):** Measurement grid:  $dx=10.0$  mm,  $dy=10.0$  mm

**Zoom Scan (24.0 x 24.0 x 22.9):** Measurement grid:  $dx=4.0$  mm,  $dy=4.0$  mm,  $dz=1.4$  mm; Graded Ratio: 1.4

Peak SAR (extrapolated) = 17.3 W/kg

**SAR(10 g) = 1.10 W/kg**

Deviation (10 g) = -5.17%



# ELEMENT

**DUT: Dipole 5850.0 MHz; Type: D5GHzV2 - SN1163**

Communication System: UID: 0, CW; Frequency: 5850.0 MHz

Medium: 5200-5850 Head; Medium parameters used:

f = 5850.0 MHz; cond = 5.34 S/m; perm = 35.4; density = 1000 kg/m<sup>3</sup>

Phantom Section: Flat; Space: 10 mm

Test Date: 06/27/2025; Ambient Temp: 20.8°C; Tissue Temp: 19.2°C

Probe: EX3DV4 - SN7499; ConvF:(4.9,5.02,5.19); Calibrated 2025-01-14

Sensor-Surface: 1.4mm (VMS + 6p)

Electronics: DAE4 Sn1465; Calibrated 2025-01-08

Phantom: Twin-SAM V8.0; Serial: 2070

Measurement SW: DASY Module SAR V16.4.0.5005

## 5850.0 MHz System Verification at 17.0 dBm (50 mW)

**Area Scan (40.0 x 80.0):** Measurement grid: dx=10.0 mm, dy=10.0 mm

**Zoom Scan (24.0 x 24.0 x 22.9):** Measurement grid: dx=4.0 mm, dy=4.0 mm, dz=1.4 mm; Graded Ratio: 1.4

Peak SAR (extrapolated) = 17.6 W/kg

**SAR(1 g) = 3.74 W/kg; SAR(10 g) = 1.08 W/kg**

Deviation (1 g) = -6.27%; Deviation (10 g) = -4.00%

