

# Appendix A

## Detailed System Check Results

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| 1. System Performance Check            |
| System Performance Check 835 MHz Head  |
| System Performance Check 1750 MHz Head |
| System Performance Check 1900 MHz Head |
| System Performance Check 2450 MHz Head |
| System Performance Check 2600 MHz Head |

Test Laboratory: SGS-SAR Lab

**System Performance Check 835 MHz Head****DUT: D835V2; Type: Dipole; Serial: 4d256**

Communication System: UID 0, 835MHZ; Frequency: 835 MHz;Duty Cycle: 1:1

Medium: HSL835;Medium parameters used:  $f = 835 \text{ MHz}$ ;  $\sigma = 0.95 \text{ S/m}$ ;  $\epsilon_r = 41.397$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN7620; ConvF(10.33, 10.33, 10.33); Calibrated: 2021-08-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1327; Calibrated: 2021-11-05
- Phantom: SAM 2; Type: QD000P40CD; Serial: TP:1563
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Configuration/system check/Area Scan (6x13x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$ 

Maximum value of SAR (measured) = 2.65 W/kg

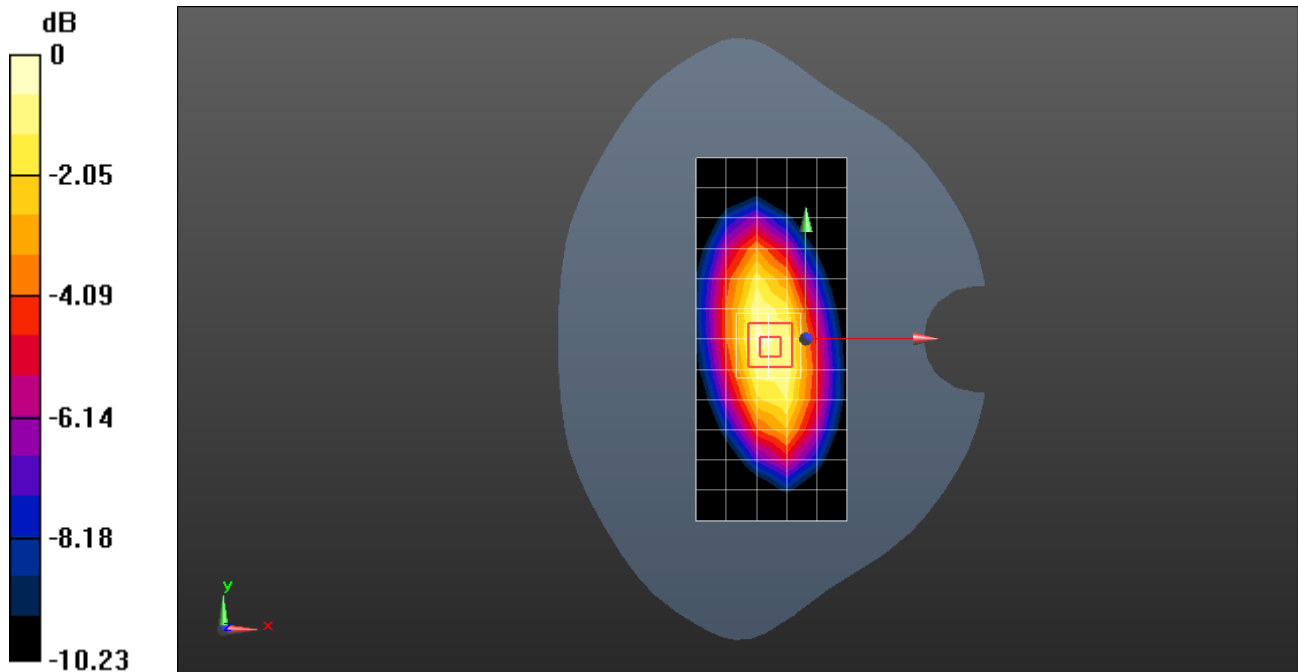
**Configuration/system check/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$ 

Reference Value = 54.28 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 3.50 W/kg

**SAR(1 g) = 2.51 W/kg; SAR(10 g) = 1.68 W/kg**

Maximum value of SAR (measured) = 2.92 W/kg



0 dB = 2.92 W/kg = 4.65 dBW/kg

Test Laboratory: SGS-SAR Lab

**System Performance Check 1750 MHz Head****DUT: D1750V2; Type: Dipole; Serial: 1105**

Communication System: UID 0, CW (0); Frequency: 1750 MHz; Duty Cycle: 1:1

Medium: HSL1750; Medium parameters used:  $f = 1750$  MHz;  $\sigma = 1.34$  S/m;  $\epsilon_r = 40.379$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN7620; ConvF(8.97, 8.97, 8.97); Calibrated: 2021-08-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1327; Calibrated: 2021-11-05
- Phantom: SAM 2; Type: QD000P40CD; Serial: TP:1563
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Body/d=10mm, Pin=250mW/Area Scan (7x10x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 11.3 W/kg

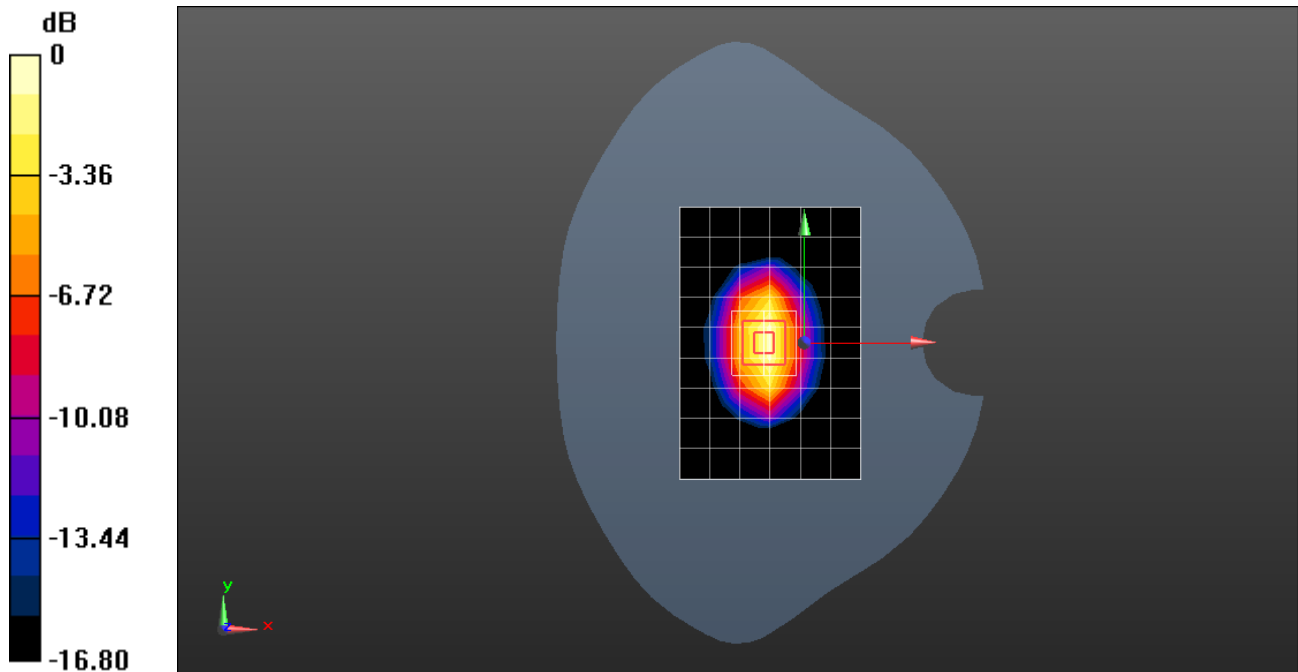
**Body/d=10mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 79.39 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 15.7 W/kg

**SAR(1 g) = 8.72 W/kg; SAR(10 g) = 4.66 W/kg**

Maximum value of SAR (measured) = 13.4 W/kg



0 dB = 13.4 W/kg = 11.27 dBW/kg

Test Laboratory: SGS-SAR Lab

## System Performance Check 1900 MHz Head

**DUT: D1900V2; Type: Dipole; Serial: 5d114**

Communication System: UID 0, CW (0); Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: HSL1900; Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.425$  S/m;  $\epsilon_r = 39.891$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN7620; ConvF(8.67, 8.67, 8.67); Calibrated: 2021-08-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1327; Calibrated: 2021-11-05
- Phantom: SAM 2; Type: QD000P40CD; Serial: TP:1563
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Body/d=10mm, Pin=250mW/Area Scan (7x9x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (measured) = 11.1 W/kg

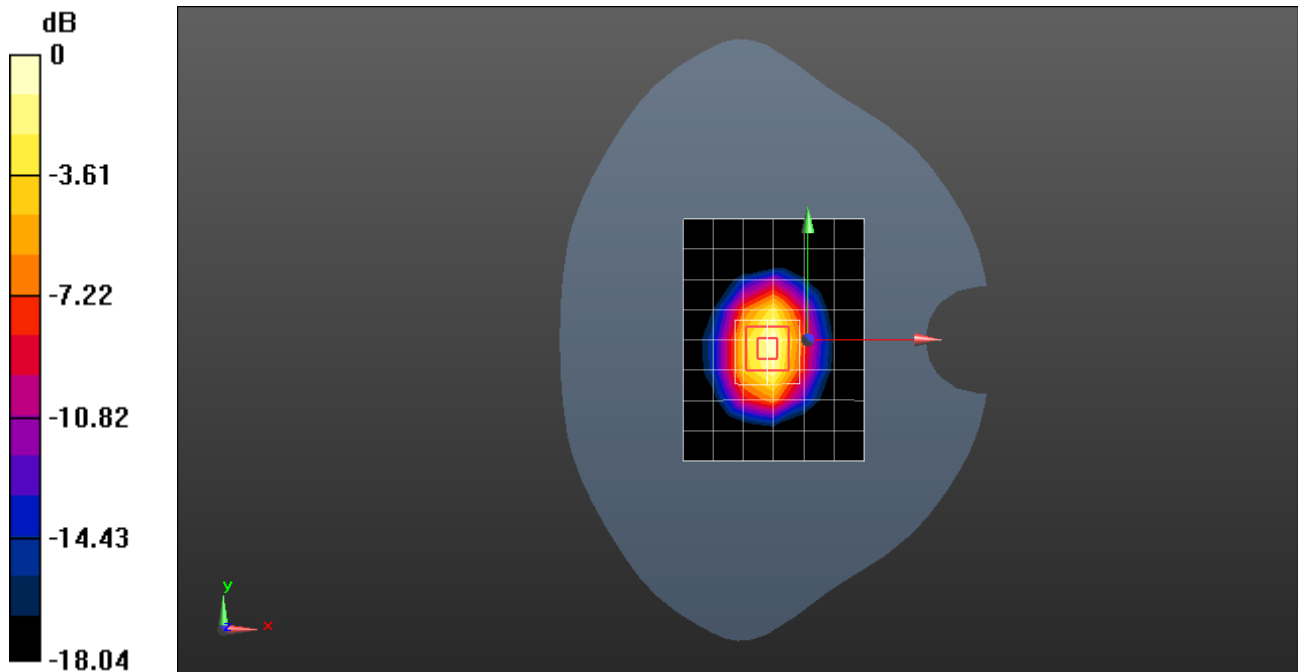
**Body/d=10mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 88.67 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 19.5 W/kg

**SAR(1 g) = 10.5 W/kg; SAR(10 g) = 5.45 W/kg**

Maximum value of SAR (measured) = 11.8 W/kg



0 dB = 11.8 W/kg = 10.72 dBW/kg

Test Laboratory: SGS-SAR Lab

**System Performance Check 2450MHz Head****DUT: D2450V2; Type: Dipole; Serial: 1038**

Communication System: UID 0, CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: HSL2450; Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.818$  S/m;  $\epsilon_r = 39.843$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN7620; ConvF(8.29, 8.29, 8.29); Calibrated: 2021-08-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1327; Calibrated: 2021-11-05
- Phantom: SAM 2; Type: QD000P40CD; Serial: TP:1563
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Body/d=10mm, Pin=250mW/Area Scan (9x10x1):** Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 19.7 W/kg

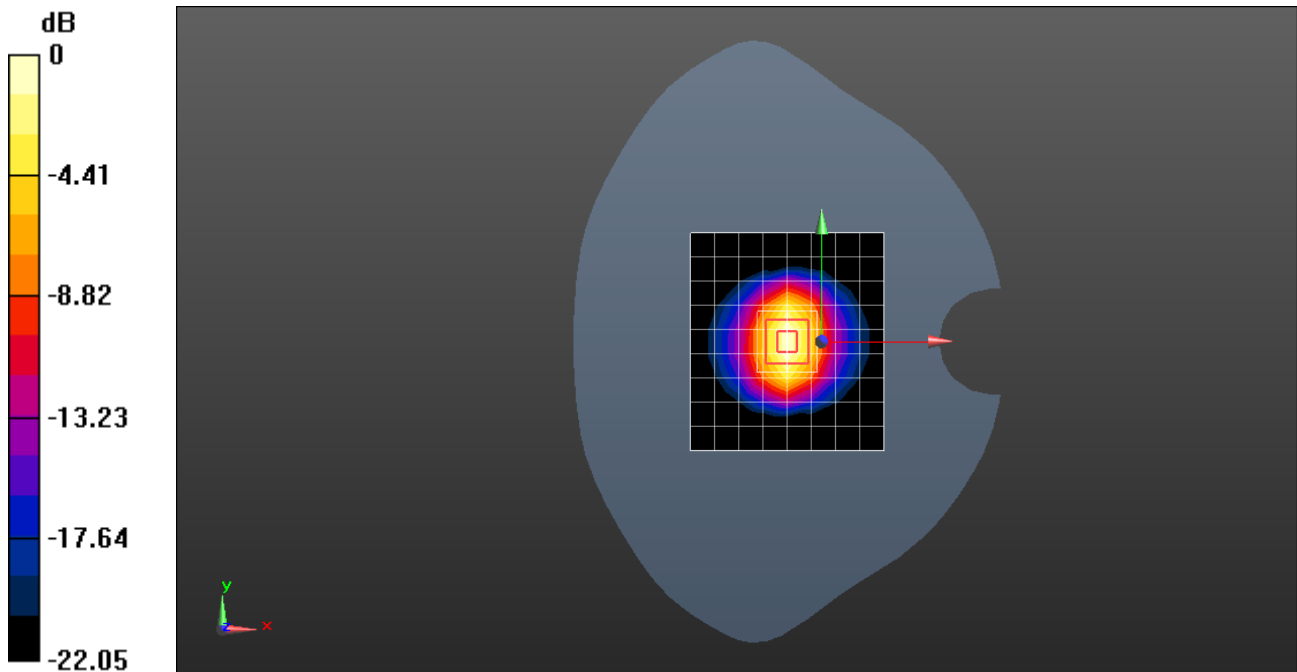
**Body/d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 89.41 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 25.8 W/kg

**SAR(1 g) = 12.5 W/kg; SAR(10 g) = 5.8 W/kg**

Maximum value of SAR (measured) = 20.9 W/kg



0 dB = 20.9 W/kg = 13.20 dBW/kg

Test Laboratory: SGS-SAR Lab

**System Performance Check 2450MHz Head****DUT: D2450V2; Type: Dipole; Serial: 1038**

Communication System: UID 0, CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: HSL2450; Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.809$  S/m;  $\epsilon_r = 39.783$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN7620; ConvF(8.29, 8.29, 8.29); Calibrated: 2021-08-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1327; Calibrated: 2021-11-05
- Phantom: SAM 2; Type: QD000P40CD; Serial: TP:1563
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

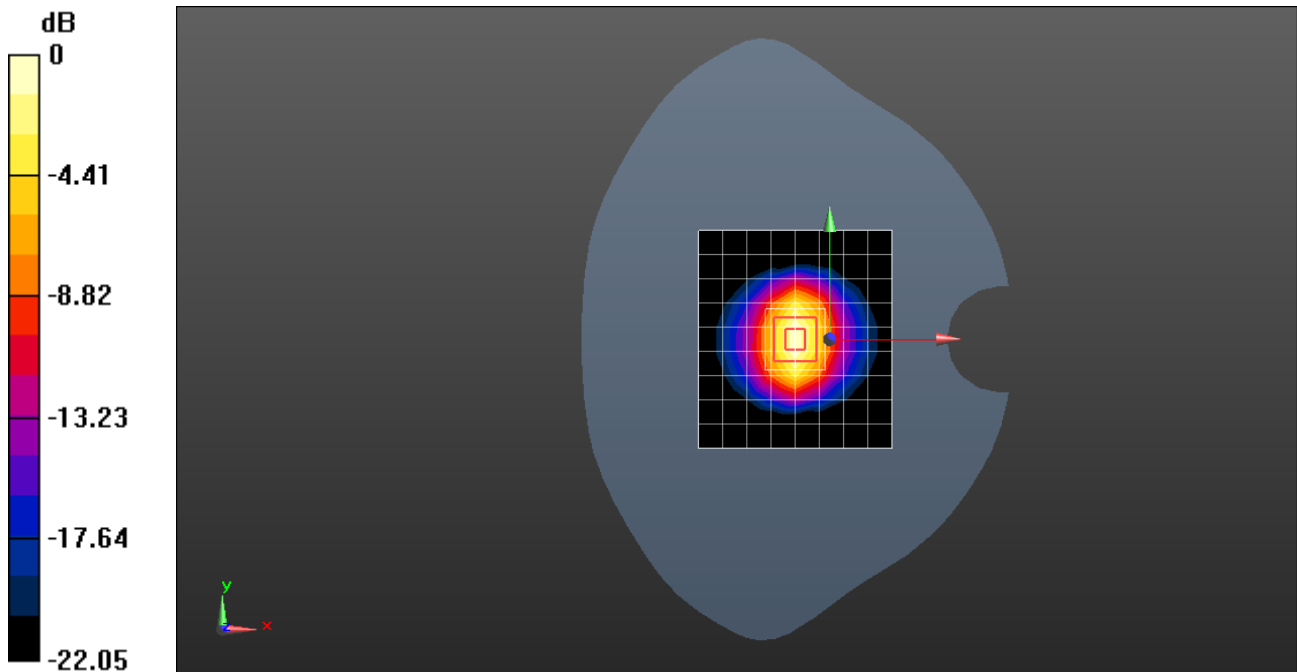
**Body/d=10mm, Pin=250mW/Area Scan (9x10x1):** Measurement grid: dx=12mm, dy=12mm  
Maximum value of SAR (measured) = 19.6 W/kg**Body/d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 89.41 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 25.7 W/kg

**SAR(1 g) = 12.4 W/kg; SAR(10 g) = 5.77 W/kg**

Maximum value of SAR (measured) = 20.8 W/kg



0 dB = 20.8 W/kg = 13.18 dBW/kg

Test Laboratory: SGS-SAR Lab

## System Performance Check 2600MHz Head

**DUT: D2600V2; Type: Dipole; Serial: 1180**

Communication System: UID 0, CW (0); Frequency: 2600 MHz; Duty Cycle: 1:1

Medium: HSL2600; Medium parameters used:  $f = 2600$  MHz;  $\sigma = 2.004$  S/m;  $\epsilon_r = 39.325$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3982; ConvF(7.58, 7.58, 7.58); Calibrated: 2021-12-29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1327; Calibrated: 2021-11-05
- Phantom: SAM 2; Type: QD000P40CD; Serial: TP:1563
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Head/d=10mm, Pin=250mW/Area Scan (10x10x1):** Measurement grid: dx=12mm, dy=12mm  
Maximum value of SAR (measured) = 16.2 W/kg

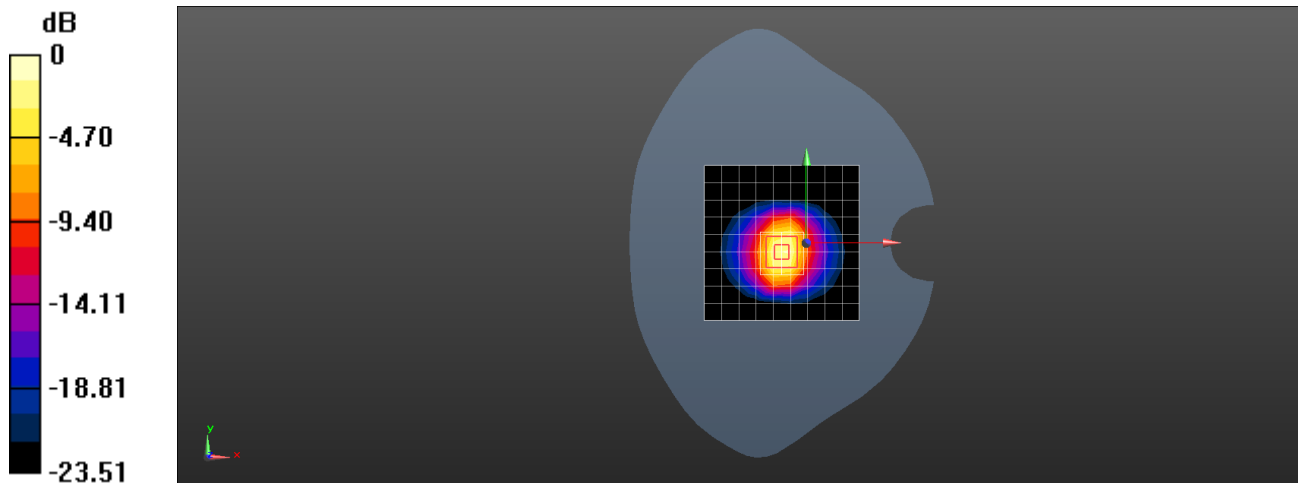
**Head/d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 81.36 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 27.2 W/kg

**SAR(1 g) = 12.9 W/kg; SAR(10 g) = 5.8 W/kg**

Maximum value of SAR (measured) = 22.1 W/kg



0 dB = 22.1 W/kg = 13.44 dBW/kg