



## Appendix A. System Check Plots

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Test Laboratory: HUAWEI SAR/HAC Lab

## SystemPerformanceCheck-D2450-EX-Body

**DUT: Dipole 2450 MHz D2450V2; Type: D2450V2; Serial: D2450V2 - SN:860**

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

Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.984$  S/m;  $\epsilon_r = 51.146$ ;  $\rho = 1000$  kg/m<sup>3</sup>

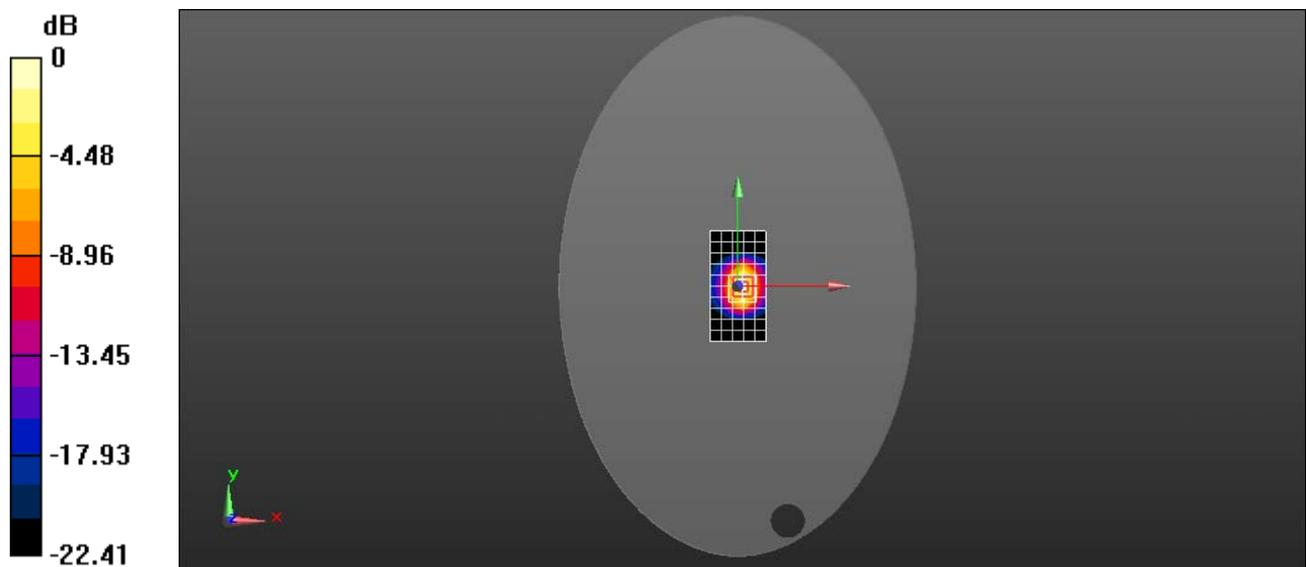
Phantom section: Flat Section

DASY Configuration:

- ⌘ Probe: EX3DV4 - SN3744; ConvF(6.77, 6.77, 6.77); Calibrated: 2015-7-24;
- ⌘ Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- ⌘ Electronics: DAE4 Sn852; Calibrated: 2015-4-27
- ⌘ Phantom: ELI v5.0; Type: ELI; Serial: TP:1111
- ⌘ DASY52 52.8.8(1222);

**Configuration/d=10mm, Pin=250mW/Area Scan (6x11x1):** Measurement grid:  $dx=12$ mm,  $dy=12$ mm  
Maximum value of SAR (measured) = 18.1 W/kg

**Configuration/d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm  
Reference Value = 79.68 V/m; Power Drift = -0.13 dB  
Peak SAR (extrapolated) = 28.2 W/kg  
SAR(1 g) = 13.6 W/kg; SAR(10 g) = 6.26 W/kg



0 dB = 18.1 W/kg = 12.57 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## System Performance Check-D5200-EX-Body

**DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN:1155**

Communication System: UID 0, CW (0); Frequency: 5200 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 5200$  MHz;  $\sigma = 5.184$  S/m;  $\epsilon_r = 48.035$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- ε Probe: EX3DV4 - SN7351; ConvF(4.36, 4.36, 4.36); Calibrated: 2015-10-30;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 25.0$
- ε Electronics: DAE4 Sn1236; Calibrated: 2015-11-23
- ε Phantom: ELI v5.0; Type: ELI; Serial: TP:1111
- ε DASY52 52.8.8(1222);

### System Performance Check with D5GHzV2 Dipole (graded grid)/d=10mm, Pin=100mW, f=5200 MHz/Area Scan (8x9x1):

Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 16.4 W/kg

### System Performance Check with D5GHzV2 Dipole (graded grid)/d=10mm, Pin=100mW, f=5200 MHz/Zoom Scan (4x4x1.4mm, graded), dist=1.4mm

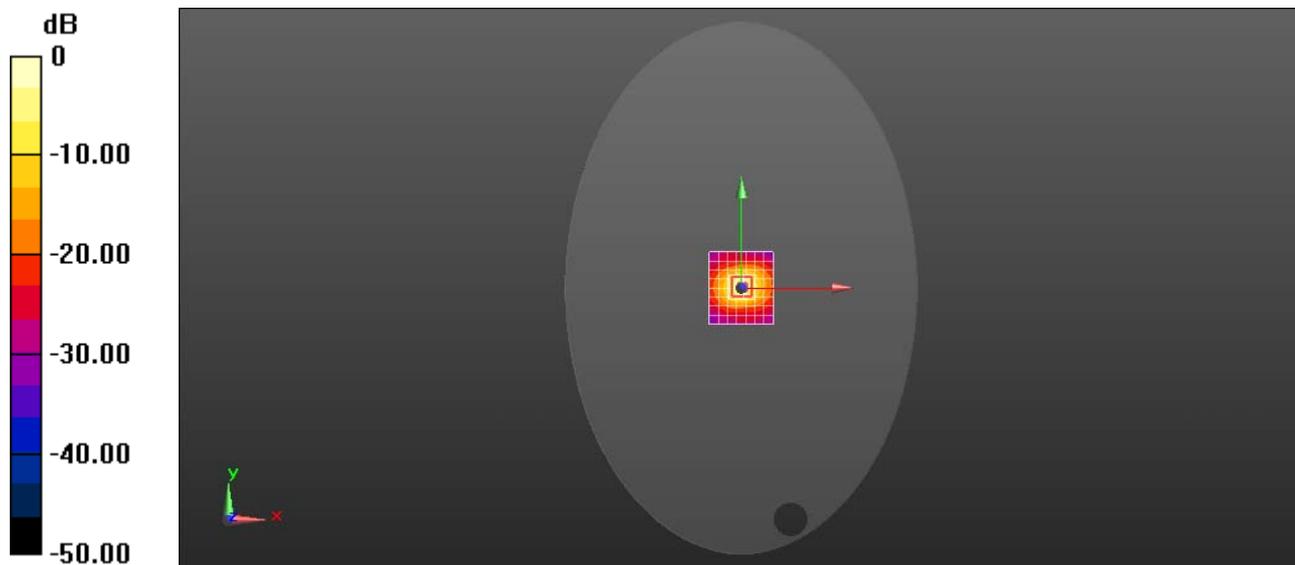
(8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 71.05 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 33.4 W/kg

SAR(1 g) = 8.3 W/kg; SAR(10 g) = 2.32 W/kg

Maximum value of SAR (measured) = 19.2 W/kg



0 dB = 19.2 W/kg = 12.84 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## System Performance Check-D5300-EX-Body

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN:1155

Communication System: UID 0, CW (0); Frequency: 5300 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 5300$  MHz;  $\sigma = 5.346$  S/m;  $\epsilon_r = 47.791$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- ⌘ Probe: EX3DV4 - SN3736; ConvF(4.08, 4.08, 4.08); Calibrated: 2015-4-30;
- ⌘ Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 25.0$
- ⌘ Electronics: DAE4 Sn852; Calibrated: 2015-4-27
- ⌘ Phantom: ELI v5.0; Type: ELI; Serial: TP:1111
- ⌘ DASY52 52.8.8(1222);

### System Performance Check with D5GHzV2 Dipole (graded grid)/d=10mm, Pin=100mW, f=5300 MHz/Area Scan (8x9x1):

Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 20.3 W/kg

### System Performance Check with D5GHzV2 Dipole (graded grid)/d=10mm, Pin=100mW, f=5300 MHz/Zoom Scan (4x4x1.4mm, graded), dist=1.4mm

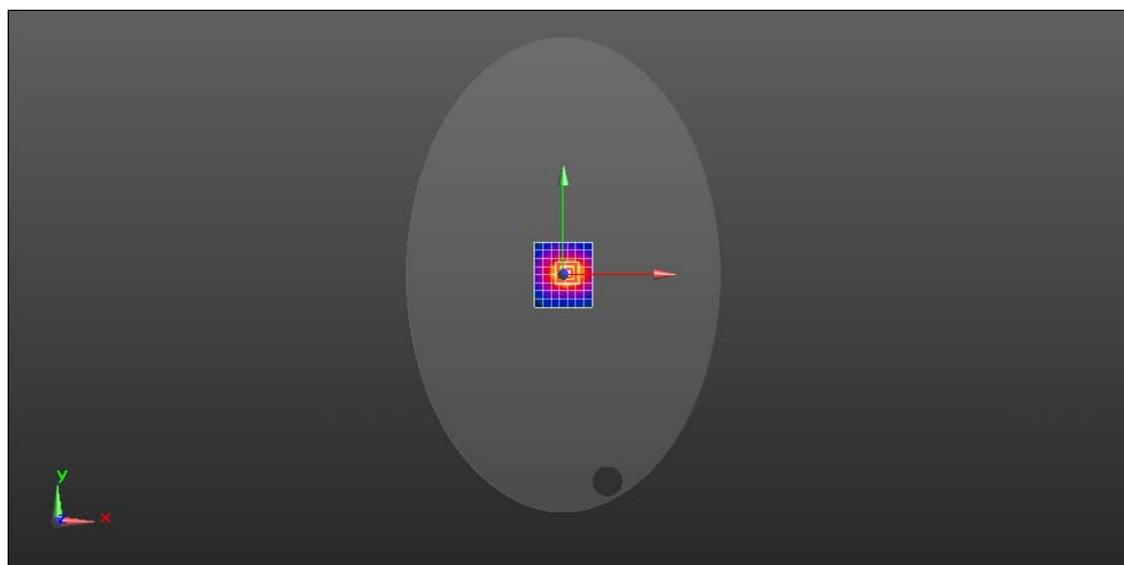
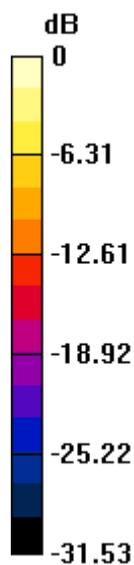
(8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 56.02 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 36.8 W/kg

SAR(1 g) = 8.26 W/kg; SAR(10 g) = 2.29 W/kg

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



0 dB = 19.7 W/kg = 12.94 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## SystemPerformanceCheck-D5300-EX-Body

**DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN:1155**

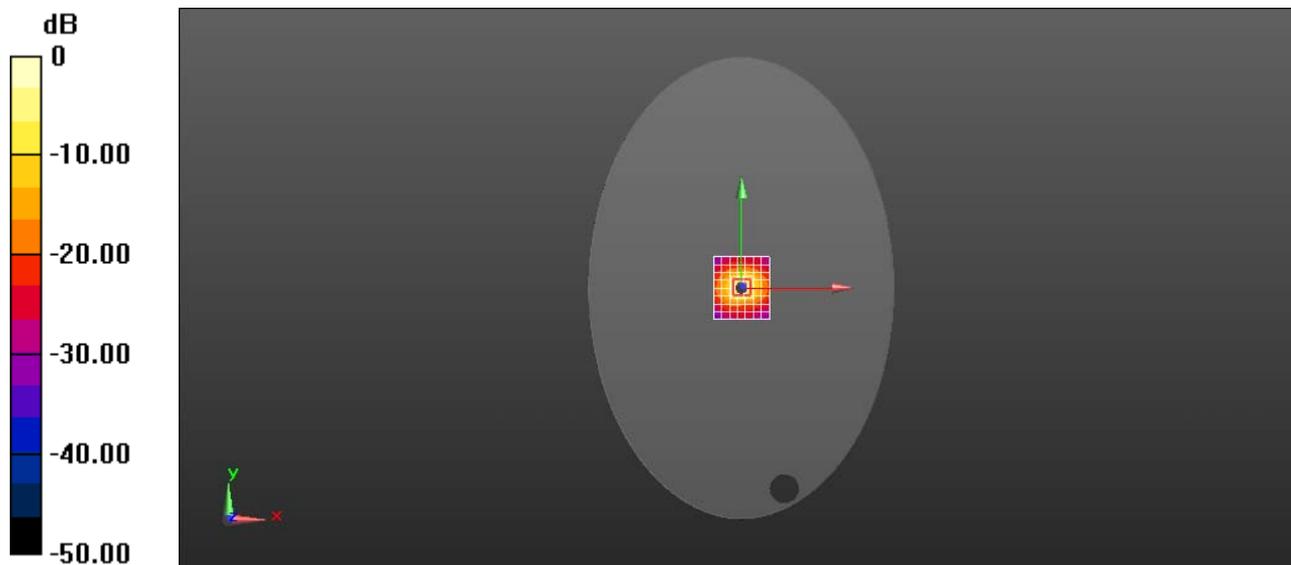
Communication System: UID 0, CW (0); Frequency: 5300 MHz;Duty Cycle: 1:1  
 Medium parameters used:  $f = 5300$  MHz;  $\sigma = 5.346$  S/m;  $\epsilon_r = 47.791$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Flat Section

DASY Configuration:

- ⊘ Probe: EX3DV4 - SN7351; ConvF(4.2, 4.2, 4.2); Calibrated: 2015-10-30;
- ⊘ Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 25.0$
- ⊘ Electronics: DAE4 Sn1236; Calibrated: 2015-11-23
- ⊘ Phantom: ELI v5.0; Type: ELI; Serial: TP:1111
- ⊘ DASY52 52.8.8(1222);

**System Performance Check with D5GHzV2 Dipole (graded grid)/d=10mm, Pin=100mW, f=5300 MHz/Area Scan (8x9x1):** Measurement grid: dx=10mm, dy=10mm  
 Maximum value of SAR (measured) = 16.3 W/kg

**System Performance Check with D5GHzV2 Dipole (graded grid)/d=10mm, Pin=100mW, f=5300 MHz/Zoom Scan (4x4x1.4mm, graded), dist=1.4mm (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm  
 Reference Value = 69.67 V/m; Power Drift = -0.14 dB  
 Peak SAR (extrapolated) = 32.8 W/kg  
**SAR(1 g) = 7.92 W/kg; SAR(10 g) = 2.19 W/kg**  
 Maximum value of SAR (measured) = 18.6 W/kg



0 dB = 18.6 W/kg = 12.69 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## System Performance Check-D5600-EX-Body

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN:1155

Communication System: UID 0, CW (0); Frequency: 5600 MHz; Duty Cycle: 1:1  
 Medium parameters used:  $f = 5600$  MHz;  $\sigma = 5.869$  S/m;  $\epsilon_r = 47.27$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Flat Section

DASY Configuration:

- ⌵ Probe: EX3DV4 - SN3736; ConvF(3.71, 3.71, 3.71); Calibrated: 2015-4-30;
- ⌵ Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 25.0$
- ⌵ Electronics: DAE4 Sn852; Calibrated: 2015-4-27
- ⌵ Phantom: ELI v5.0; Type: ELI; Serial: TP:1111
- ⌵ DASY52 52.8.8(1222);

### System Performance Check with D5GHzV2 Dipole (graded grid)/d=10mm, Pin=100mW, f=5600 MHz/Area Scan (8x9x1):

Measurement grid: dx=10mm, dy=10mm  
 Maximum value of SAR (measured) = 21.8 W/kg

### System Performance Check with D5GHzV2 Dipole (graded grid)/d=10mm, Pin=100mW, f=5600 MHz/Zoom Scan (4x4x1.4mm, graded), dist=1.4mm

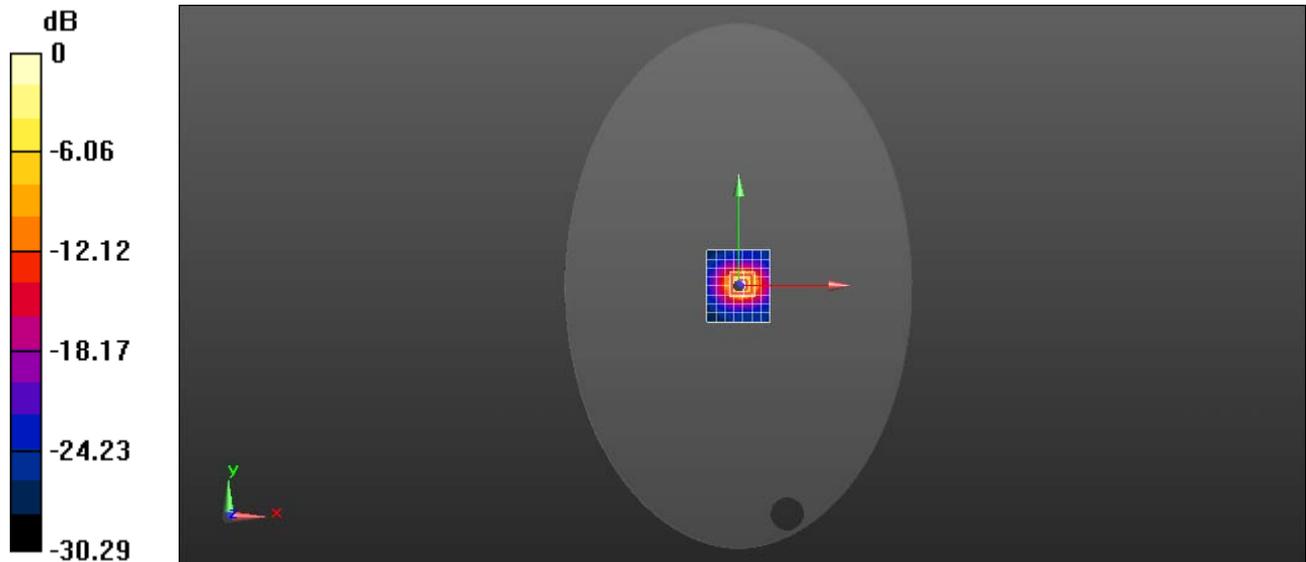
(8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 60.74 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 38.0 W/kg

SAR(1 g) = 8.59 W/kg; SAR(10 g) = 2.4 W/kg

Maximum value of SAR (measured) = 21.2 W/kg



0 dB = 21.2 W/kg = 13.26 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## System Performance Check-D5800-EX-Body

**DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN:1155**

Communication System: UID 0, CW (0); Frequency: 5800 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 5800$  MHz;  $\sigma = 6.209$  S/m;  $\epsilon_r = 46.976$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- ⌘ Probe: EX3DV4 - SN3736; ConvF(3.86, 3.86, 3.86); Calibrated: 2015-4-30;
- ⌘ Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 25.0$
- ⌘ Electronics: DAE4 Sn852; Calibrated: 2015-4-27
- ⌘ Phantom: ELI v5.0; Type: ELI; Serial: TP:1111
- ⌘ DASY52 52.8.8(1222);

### System Performance Check with D5GHzV2 Dipole (graded grid)/d=10mm, Pin=100mW, f=5800 MHz/Area Scan (8x9x1):

Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 19.2 W/kg

### System Performance Check with D5GHzV2 Dipole (graded grid)/d=10mm, Pin=100mW, f=5800 MHz/Zoom Scan (4x4x1.4mm, graded), dist=1.4mm

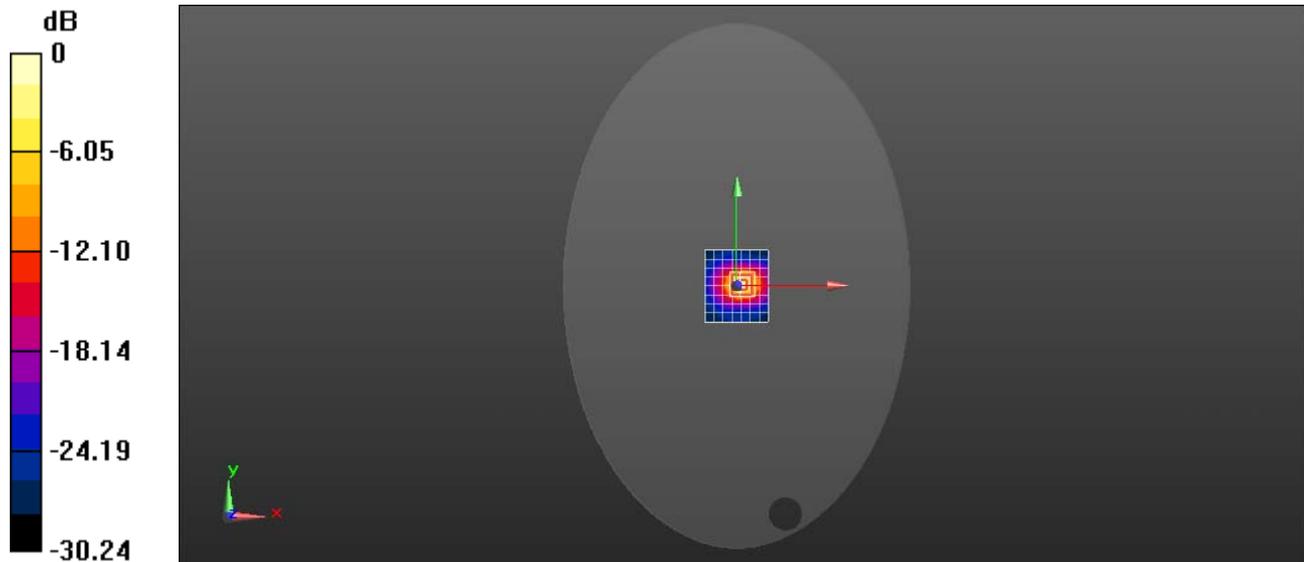
(8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 49.67 V/m; Power Drift = -0.29 dB

Peak SAR (extrapolated) = 34.9 W/kg

SAR(1 g) = 7.5 W/kg; SAR(10 g) = 2.1 W/kg

Maximum value of SAR (measured) = 18.6 W/kg



0 dB = 18.6 W/kg = 12.70 dBW/kg