

Annex B DASY System Performance Check

Appendix No.: 1-7811-24-01-03_TR1-A501-R01

Testing Laboratory

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Accredited Test Laboratory:

The testing laboratory (area of testing) is accredited according to DIN EN ISO/IEC 17025 (2018-03) by the Deutsche Akkreditierungsstelle GmbH (DAkkS)

The accreditation is valid for the scope of testing procedures as stated in the accreditation certificate starting with the registration number: D-PL-12047-01-00.

SystemPerformanceCheck-D750**DUT: Dipole; Type: D750V3; Serial: SN1041**

Communication System: CW; Communication System Frequency: 750.0 MHz

Medium parameters used: $f = 750.0$ MHz, $\sigma = 0.928$ S/m; $\epsilon_r = 42.5$; $\rho = 1000$ kg/m³

Phantom Section: Flat

Measurement Standard: DASY 6

DASY Configuration:

- Probe: EX3DV4 - SN7852; ConvF(9.41, 9.41, 9.41); Calibrated: 2023-11-08
- Sensor-Surface: 1.4 mm
- DAE: DAE3 Sn413; Calibrated: 2024-01-15
- Phantom: ELI V8.0-I; Serial: 2101;
- Software: cDASY6 (16.2.4.2524)

HBBL-600-10000/750.0MHz/Area Scan (10.0 x 15.0 x 1.0) :

Grid Extents [mm]: 40.0 x 90.0

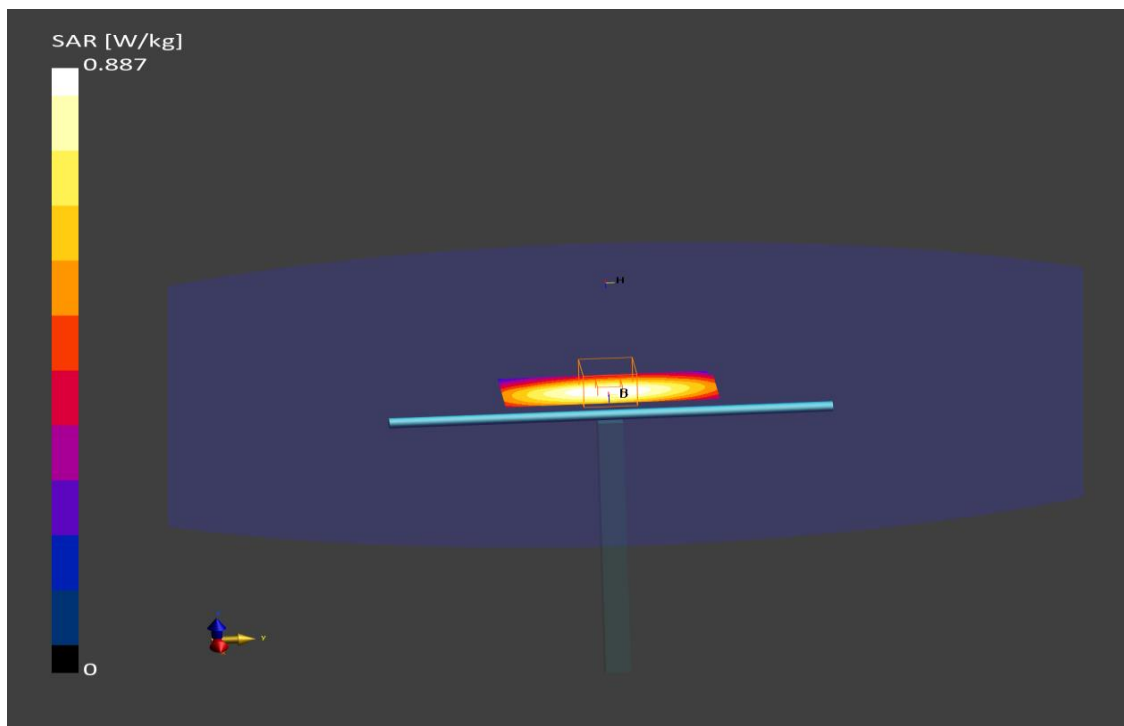
Maximum value of SAR (interpolated) - SAR(1 g) = 0.846 W/kg; SAR(10 g) = 0.569 W/kg

HBBL-600-10000/750.0MHz/Zoom Scan (6.0 x 6.0 x 1.5) :

Grid Extents [mm]: 30.0 x 30.0 x 30.0

SPC Power = 20.0 dBm

Power Drift = 0.04 dB

SAR(1 g) = 0.852 W/kg; SAR(10 g) = 0.560 W/kg**Additional information:**

ambient temperature: 22.8°C; liquid temperature: 21.5°C;

SystemPerformanceCheck-D750**DUT: Dipole; Type: D750V3; Serial: SN1041**

Communication System: CW; Communication System Frequency: 750.0 MHz

Medium parameters used: $f = 750.0$ MHz, $\sigma = 0.915$ S/m; $\epsilon_r = 41.6$; $\rho = 1000$ kg/m³

Phantom Section: Flat

Measurement Standard: DASY 6

DASY Configuration:

- Probe: EX3DV4 - SN3944; ConvF(9.17, 10.02, 9.43); Calibrated: 2024-05-21
- Sensor-Surface: 1.4 mm
- DAE: DAE4 Sn477; Calibrated: 2024-05-22
- Phantom: ELI V8.0-I; Serial: 2101;
- Software: cDASY6 (16.2.4.2524)

HBBL-600-10000/750.0MHz/Area Scan (10.0 x 15.0 x 1.0) :

Grid Extents [mm]: 40.0 x 90.0

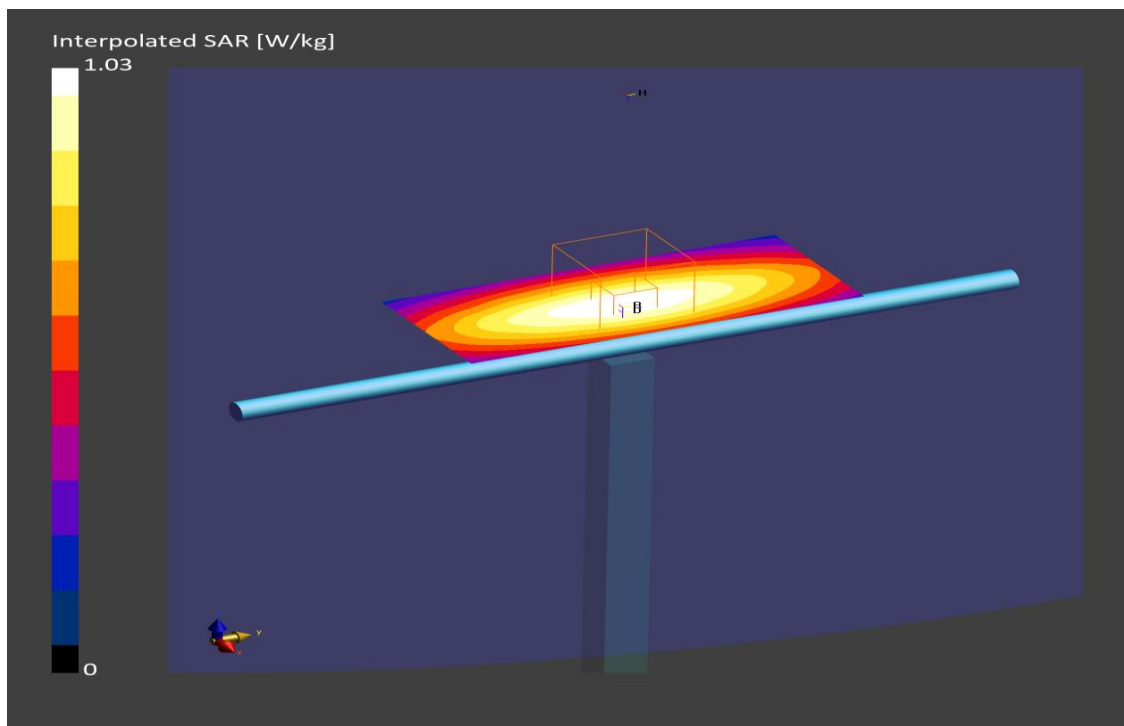
Maximum value of SAR (interpolated) - SAR(1 g) = 0.893 W/kg; SAR(10 g) = 0.599 W/kg

HBBL-600-10000/750.0MHz/Zoom Scan (6.0 x 6.0 x 1.5) :

Grid Extents [mm]: 30.0 x 30.0 x 30.0

SPC Power = 20.0 dBm

Power Drift = -0.00 dB

SAR(1 g) = 0.888 W/kg; SAR(10 g) = 0.590 W/kg**Additional information:**

ambient temperature: 22.8°C; liquid temperature: 22.4°C;

SystemPerformanceCheck-D835

DUT: Dipole; Type: D835V2; Serial: SN4d153

Communication System: CW; Communication System Frequency: 835.0 MHz

Medium parameters used: $f = 835.0$ MHz, $\sigma = 0.959$ S/m; $\epsilon_r = 42.3$; $\rho = 1000$ kg/m³

Phantom Section: Flat

Measurement Standard: DASY 6

DASY Configuration:

- Probe: EX3DV4 - SN7852; ConvF(9.14, 9.14, 9.14); Calibrated: 2023-11-08
- Sensor-Surface: 1.4 mm
- DAE: DAE3 Sn413; Calibrated: 2024-01-15
- Phantom: ELI V8.0-I; Serial: 2101;
- Software: cDASY6 (16.2.4.2524)

HBBL-600-10000/835.0MHz/Area Scan (10.0 x 15.0 x 1.0) :

Grid Extents [mm]: 40.0 x 90.0

Maximum value of SAR (interpolated) - SAR(1 g) = 1.02 W/kg; SAR(10 g) = 0.671 W/kg

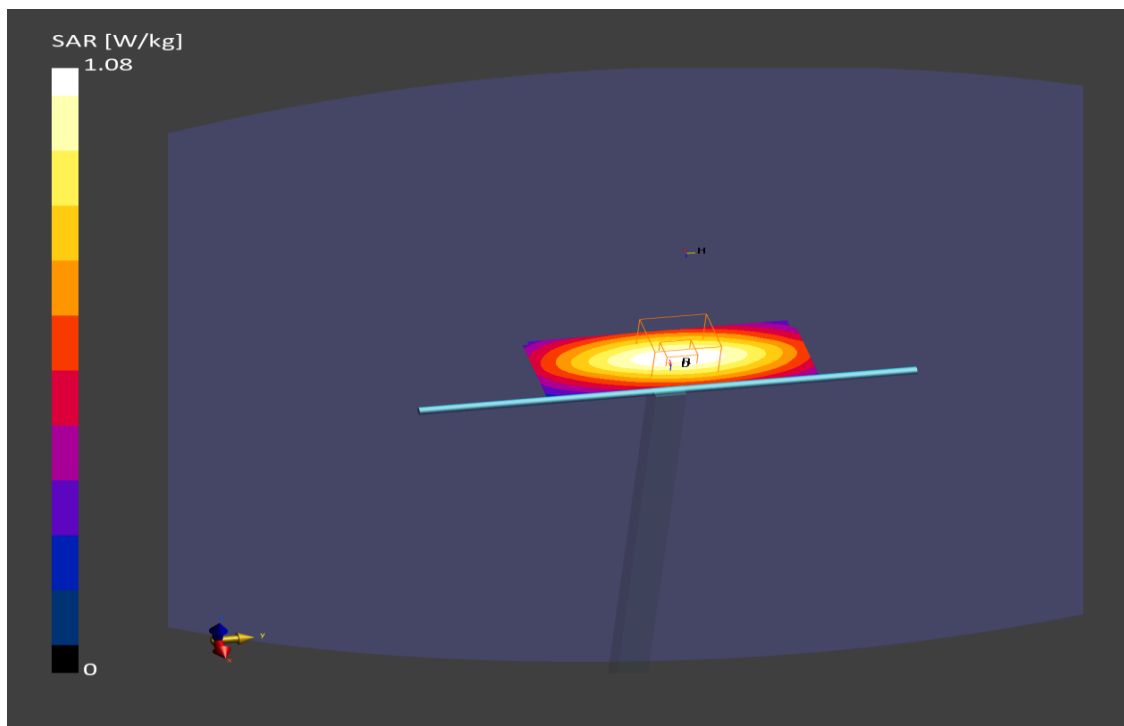
HBBL-600-10000/835.0MHz/Zoom Scan (6.0 x 6.0 x 1.5) :

Grid Extents [mm]: 30.0 x 30.0 x 30.0

SPC Power = 20.0 dBm

Power Drift = 0.01 dB

SAR(1 g) = 1.02 W/kg; SAR(10 g) = 0.659 W/kg



Additional information:

ambient temperature: 22.9°C; liquid temperature: 22.8°C;

SystemPerformanceCheck-D835**DUT: Dipole; Type: D835V2; Serial: SN4d153**

Communication System: CW; Communication System Frequency: 835.0 MHz

Medium parameters used: $f = 835.0$ MHz, $\sigma = 0.945$ S/m; $\epsilon_r = 41.4$; $\rho = 1000$ kg/m³

Phantom Section: Flat

Measurement Standard: DASY 6

DASY Configuration:

- Probe: EX3DV4 - SN3944; ConvF(8.97, 9.49, 9.29); Calibrated: 2024-05-21
- Sensor-Surface: 1.4 mm
- DAE: DAE4 Sn477; Calibrated: 2024-05-22
- Phantom: ELI V8.0-I; Serial: 2101;
- Software: cDASY6 (16.2.4.2524)

HBBL-600-10000/835.0MHz/Area Scan (10.0 x 15.0 x 1.0) :

Grid Extents [mm]: 40.0 x 90.0

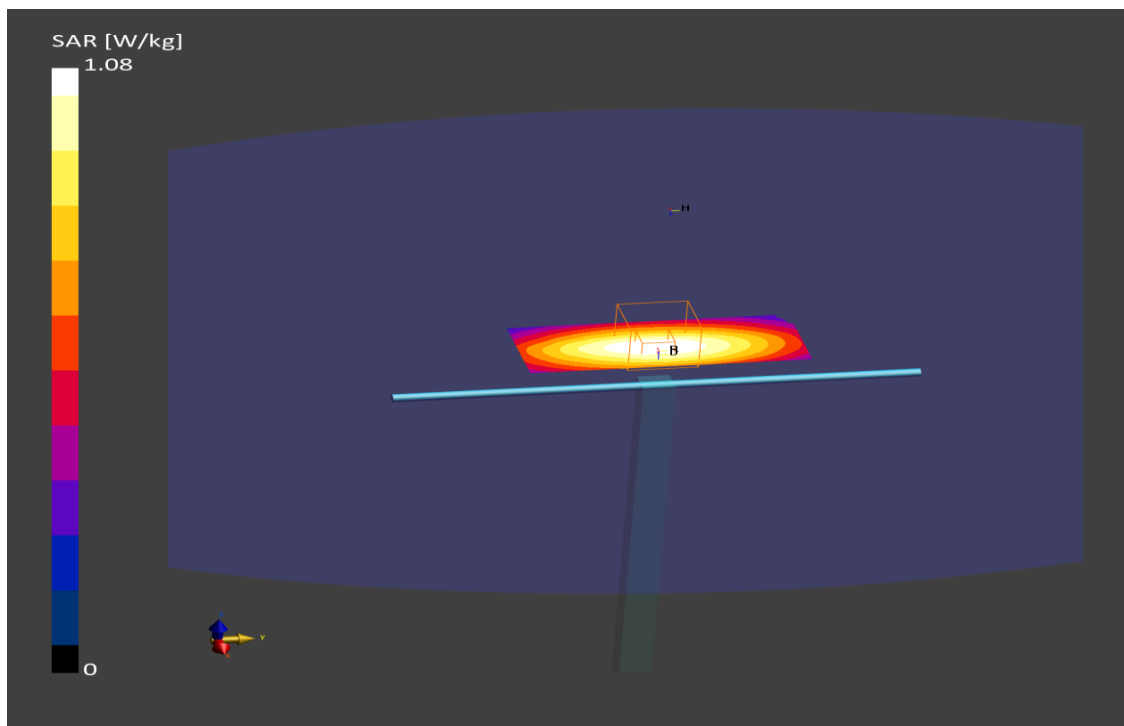
Maximum value of SAR (interpolated) - SAR(1 g) = 1.01 W/kg; SAR(10 g) = 0.670 W/kg

HBBL-600-10000/835.0MHz/Zoom Scan (6.0 x 6.0 x 1.5) :

Grid Extents [mm]: 30.0 x 30.0 x 30.0

SPC Power = 20.0 dBm

Power Drift = 0.00 dB

SAR(1 g) = 1.01 W/kg; SAR(10 g) = 0.662 W/kg**Additional information:**

ambient temperature: 22.8°C; liquid temperature: 21.4°C;

SystemPerformanceCheck-D1750

DUT: Dipole; Type: D1750V2; Serial: SN1093

Communication System: CW; Communication System Frequency: 1750.0 MHz

Medium parameters used: $f = 1750.0$ MHz, $\sigma = 1.38$ S/m; $\epsilon_r = 39.5$; $\rho = 1000$ kg/m³

Phantom Section: Flat

Measurement Standard: DASY 6

DASY Configuration:

- Probe: EX3DV4 - SN3944; ConvF(7.79, 8.41, 8.04); Calibrated: 2024-05-21
- Sensor-Surface: 1.4 mm
- DAE: DAE4 Sn477; Calibrated: 2024-05-22
- Phantom: ELI V8.0-I; Serial: 2101;
- Software: cDASY6 (16.2.4.2524)

HBBL-600-10000/1750.0MHz/Area Scan (10.0 x 15.0 x 1.0) :

Grid Extents [mm]: 40.0 x 90.0

Maximum value of SAR (interpolated) - SAR(1 g) = 3.75 W/kg; SAR(10 g) = 2.05 W/kg

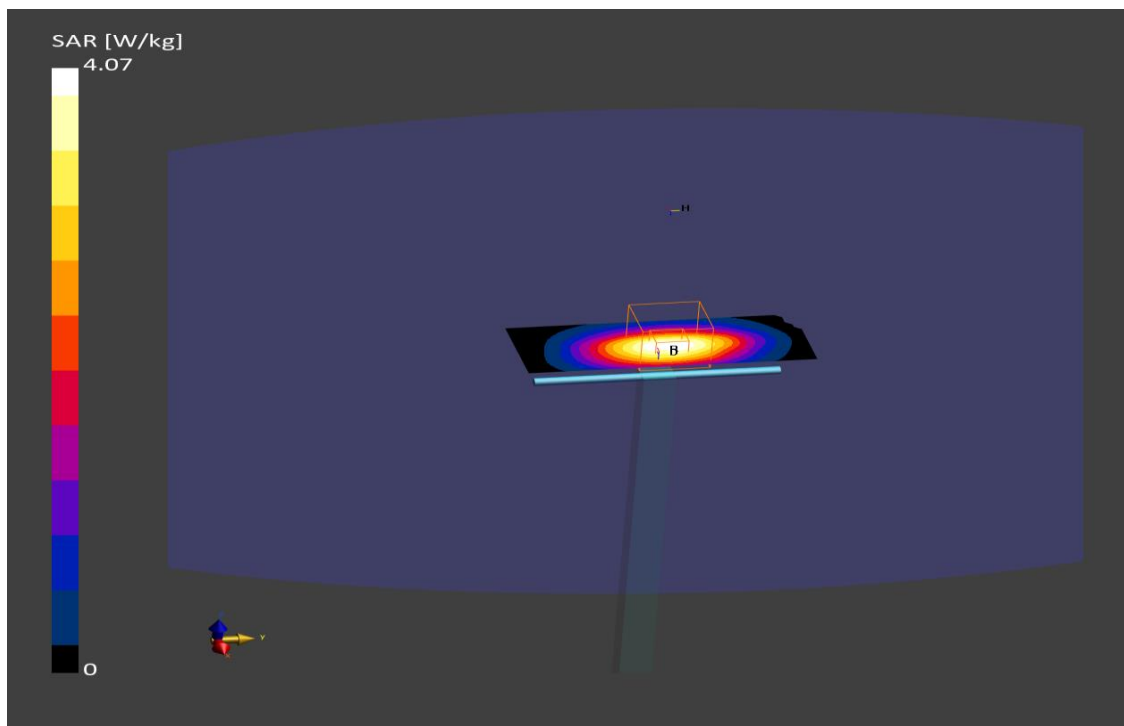
HBBL-600-10000/1750.0MHz/Zoom Scan (6.0 x 6.0 x 1.5) :

Grid Extents [mm]: 30.0 x 30.0 x 30.0

SPC Power = 20.0 dBm

Power Drift = -0.01 dB

SAR(1 g) = 3.78 W/kg; SAR(10 g) = 2.02 W/kg



Additional information:

ambient temperature: 22.8°C; liquid temperature: 22.4°C;

SystemPerformanceCheck-D1800**DUT: Dipole; Type: D1800V2; Serial: SN291**

Communication System: CW; Communication System Frequency: 1800.0 MHz

Medium parameters used: $f = 1800.0$ MHz, $\sigma = 1.43$ S/m; $\epsilon_r = 40.4$; $\rho = 1000$ kg/m³

Phantom Section: Flat

Measurement Standard: DASY 6

DASY Configuration:

- Probe: EX3DV4 - SN7852; ConvF(8.28, 8.28, 8.28); Calibrated: 2023-11-08
- Sensor-Surface: 1.4 mm
- DAE: DAE3 Sn413; Calibrated: 2024-01-15
- Phantom: ELI V8.0-I; Serial: 2101;
- Software: cDASY6 (16.2.4.2524)

HBBL-600-10000/1800.0MHz/Area Scan (10.0 x 15.0 x 1.0) :

Grid Extents [mm]: 40.0 x 90.0

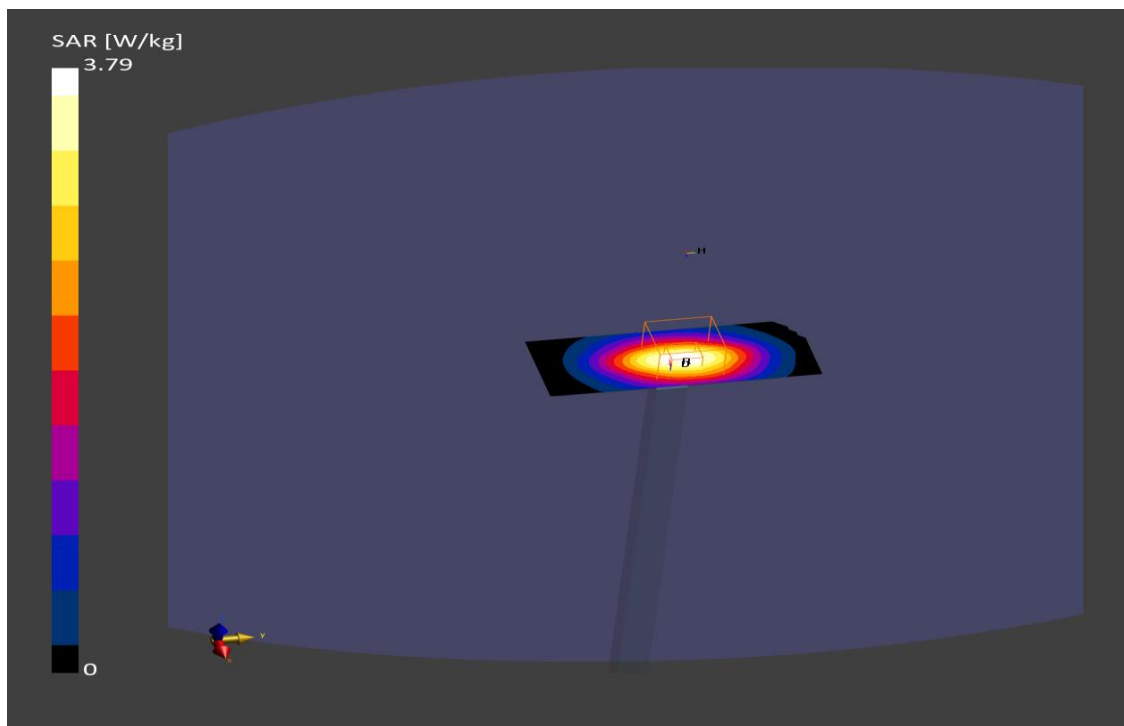
Maximum value of SAR (interpolated) - SAR(1 g) = 3.46 W/kg; SAR(10 g) = 1.86 W/kg

HBBL-600-10000/1800.0MHz/Zoom Scan (6.0 x 6.0 x 1.5) :

Grid Extents [mm]: 30.0 x 30.0 x 30.0

SPC Power = 20.0 dBm

Power Drift = 0.01 dB

SAR(1 g) = 3.50 W/kg; SAR(10 g) = 1.86 W/kg**Additional information:**

ambient temperature: 22.9°C; liquid temperature: 22.8°C;

SystemPerformanceCheck-D1900

DUT: Dipole; Type: D1900V2; Serial: SN5d009

Communication System: CW; Communication System Frequency: 1900.0 MHz

Medium parameters used: $f = 1900.0$ MHz, $\sigma = 1.49$ S/m; $\epsilon_r = 40.3$; $\rho = 1000$ kg/m³

Phantom Section: Flat

Measurement Standard: DASY 6

DASY Configuration:

- Probe: EX3DV4 - SN7852; ConvF(7.69, 7.69, 7.69); Calibrated: 2023-11-08
- Sensor-Surface: 1.4 mm
- DAE: DAE3 Sn413; Calibrated: 2024-01-15
- Phantom: ELI V8.0-I; Serial: 2101;
- Software: cDASY6 (16.2.4.2524)

HBBL-600-10000/1900.0MHz/Area Scan (10.0 x 15.0 x 1.0) :

Grid Extents [mm]: 40.0 x 90.0

Maximum value of SAR (interpolated) - SAR(1 g) = 4.12 W/kg; SAR(10 g) = 2.14 W/kg

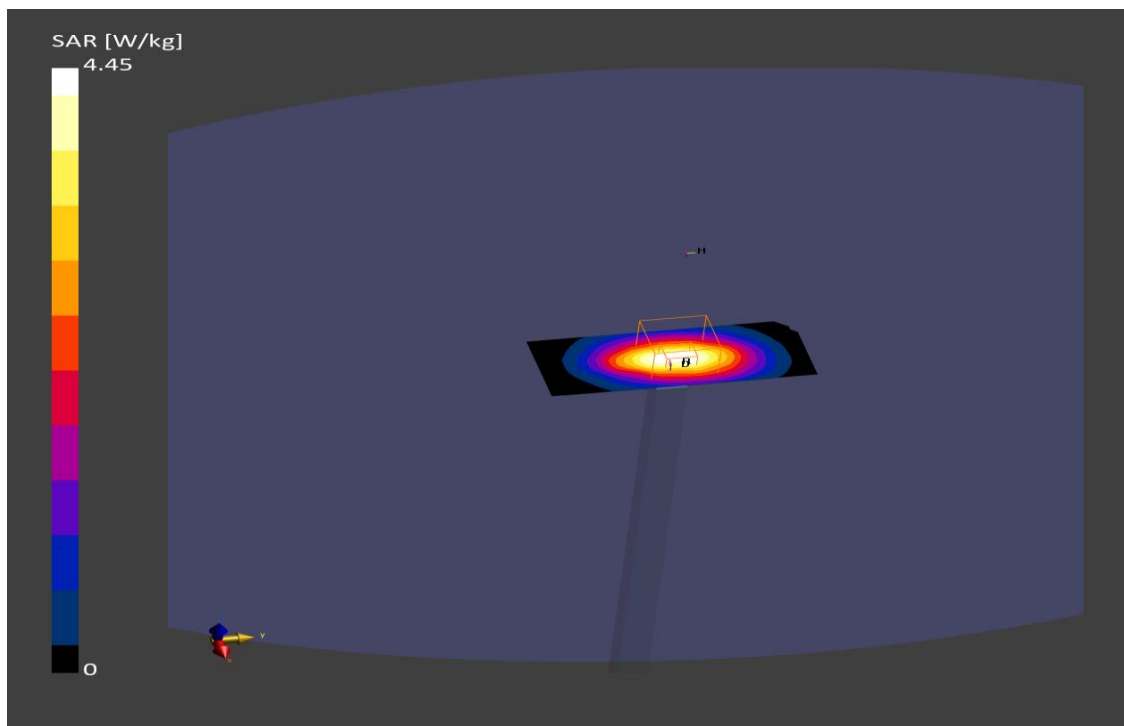
HBBL-600-10000/1900.0MHz/Zoom Scan (6.0 x 6.0 x 1.5) :

Grid Extents [mm]: 30.0 x 30.0 x 30.0

SPC Power = 20.0 dBm

Power Drift = -0.00 dB

SAR(1 g) = 4.09 W/kg; SAR(10 g) = 2.12 W/kg



Additional information:

ambient temperature: 22.9°C; liquid temperature: 22.8°C;

SystemPerformanceCheck-D1900**DUT: Dipole; Type: D1900V2; Serial: SN5d009**

Communication System: CW; Communication System Frequency: 1900.0 MHz

Medium parameters used: $f = 1900.0$ MHz, $\sigma = 1.47$ S/m; $\epsilon_r = 39.3$; $\rho = 1000$ kg/m³

Phantom Section: Flat

Measurement Standard: DASY 6

DASY Configuration:

- Probe: EX3DV4 - SN3944; ConvF(7.67, 8.22, 7.88); Calibrated: 2024-05-21
- Sensor-Surface: 1.4 mm
- DAE: DAE4 Sn477; Calibrated: 2024-05-22
- Phantom: ELI V8.0-I; Serial: 2101;
- Software: cDASY6 (16.2.4.2524)

HBBL-600-10000/1900.0MHz/Area Scan (10.0 x 15.0 x 1.0) :

Grid Extents [mm]: 40.0 x 90.0

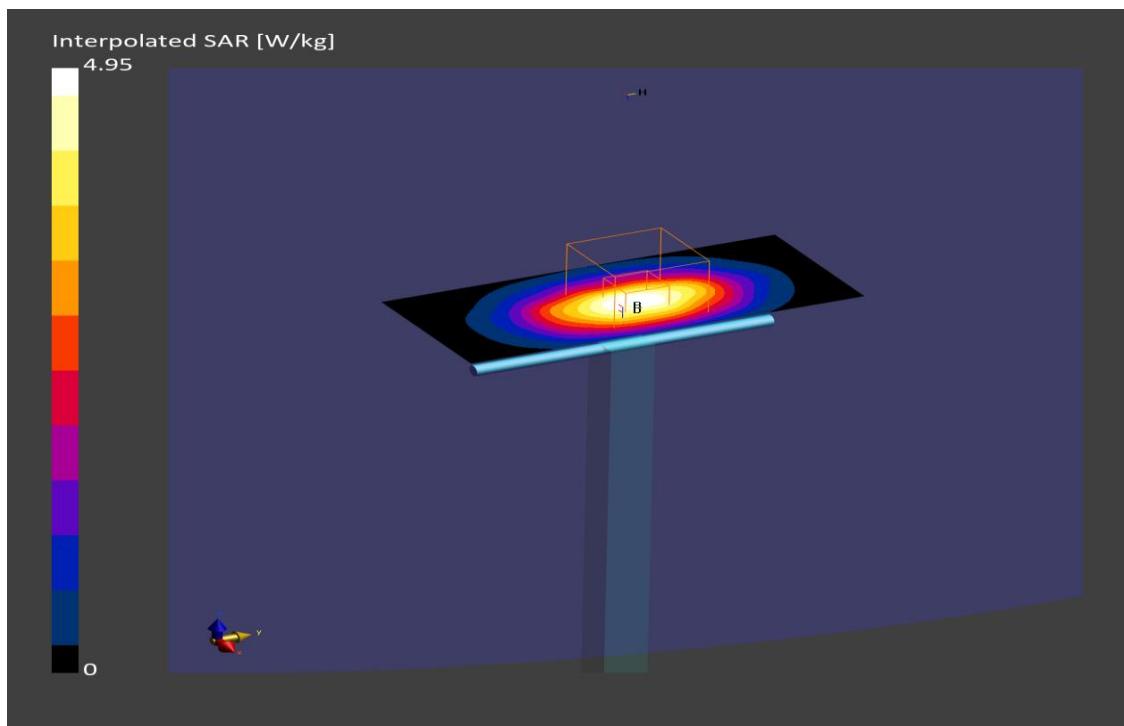
Maximum value of SAR (interpolated) - SAR(1 g) = 4.01 W/kg; SAR(10 g) = 2.13 W/kg

HBBL-600-10000/1900.0MHz/Zoom Scan (6.0 x 6.0 x 1.5) :

Grid Extents [mm]: 30.0 x 30.0 x 30.0

SPC Power = 20.0 dBm

Power Drift = -0.01 dB

SAR(1 g) = 4.05 W/kg; SAR(10 g) = 2.11 W/kg**Additional information:**

ambient temperature: 23.1°C; liquid temperature: 21.6°C;

SystemPerformanceCheck-D2600**DUT: Dipole; Type: D2600V2; Serial: SN1040**

Communication System: CW; Communication System Frequency: 2600.0 MHz

Medium parameters used: $f = 2600.0$ MHz, $\sigma = 1.99$ S/m; $\epsilon_r = 39.2$; $\rho = 1000$ kg/m³

Phantom Section: Flat

Measurement Standard: DASY 6

DASY Configuration:

- Probe: EX3DV4 - SN7852; ConvF(7.41, 7.41, 7.41); Calibrated: 2023-11-08
- Sensor-Surface: 1.4 mm
- DAE: DAE3 Sn413; Calibrated: 2024-01-15
- Phantom: ELI V8.0-I; Serial: 2101;
- Software: cDASY6 (16.2.4.2524)

HBBL-600-10000/2600.0MHz/Area Scan (10.0 x 10.0 x 1.0) :

Grid Extents [mm]: 40.0 x 80.0

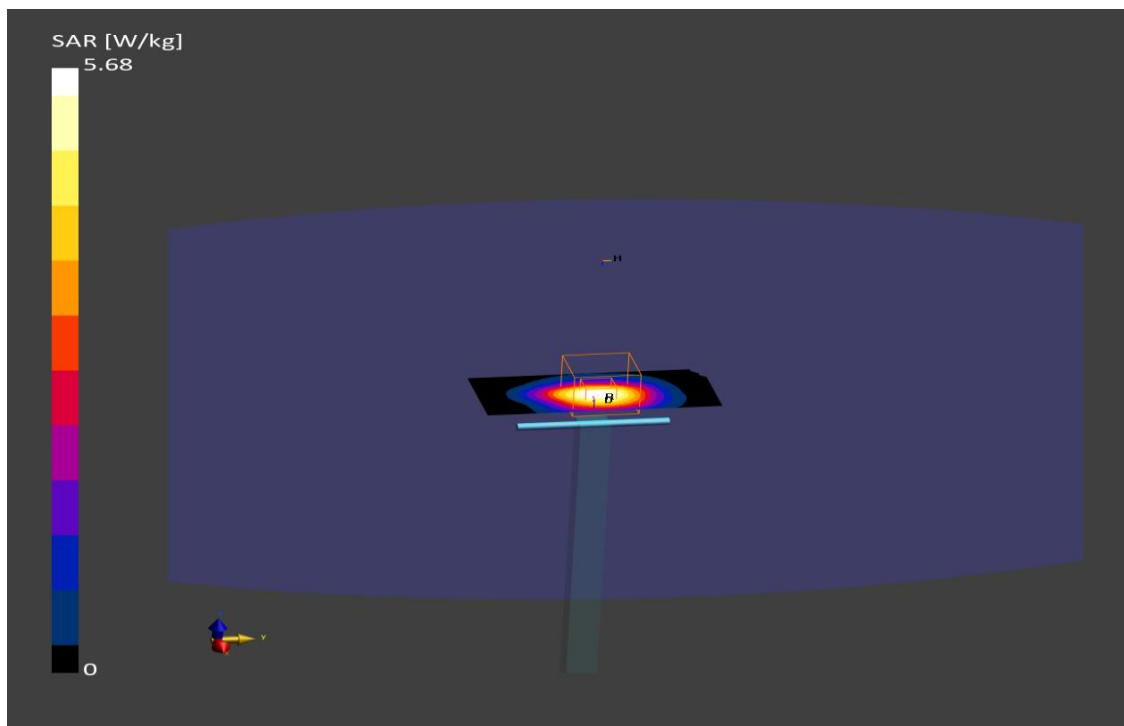
Maximum value of SAR (interpolated) - SAR(1 g) = 5.13 W/kg; SAR(10 g) = 2.39 W/kg

HBBL-600-10000/2600.0MHz/Zoom Scan (5.0 x 5.0 x 1.5) :

Grid Extents [mm]: 30.0 x 30.0 x 30.0

SPC Power = 20.0 dBm

Power Drift = -0.02 dB

SAR(1 g) = 5.31 W/kg; SAR(10 g) = 2.39 W/kg**Additional information:**

ambient temperature: 22.8°C; liquid temperature: 21.5°C;

SystemPerformanceCheck-D2600**DUT: Dipole; Type: D2600V2; Serial: SN1040**

Communication System: CW; Communication System Frequency: 2600.0 MHz

Medium parameters used: $f = 2600.0$ MHz, $\sigma = 1.91$ S/m; $\epsilon_r = 38.3$; $\rho = 1000$ kg/m³

Phantom Section: Flat

Measurement Standard: DASY 6

DASY Configuration:

- Probe: EX3DV4 - SN3944; ConvF(7.21, 7.68, 7.33); Calibrated: 2024-05-21
- Sensor-Surface: 1.4 mm
- DAE: DAE4 Sn477; Calibrated: 2024-05-22
- Phantom: ELI V8.0-I; Serial: 2101;
- Software: cDASY6 (16.2.4.2524)

HBBL-600-10000/2600.0MHz/Area Scan (10.0 x 10.0 x 1.0) :

Grid Extents [mm]: 40.0 x 80.0

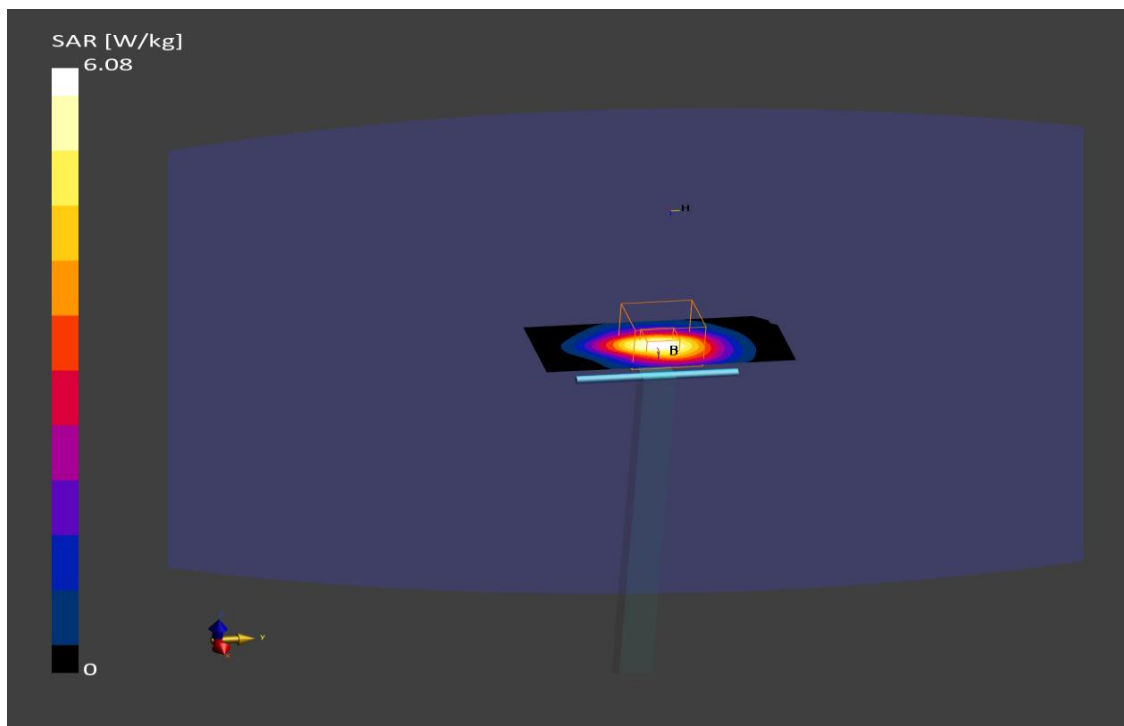
Maximum value of SAR (interpolated) - SAR(1 g) = 5.44 W/kg; SAR(10 g) = 2.49 W/kg

HBBL-600-10000/2600.0MHz/Zoom Scan (5.0 x 5.0 x 1.5) :

Grid Extents [mm]: 30.0 x 30.0 x 30.0

SPC Power = 20.0 dBm

Power Drift = -0.13 dB

SAR(1 g) = 5.36 W/kg; SAR(10 g) = 2.42 W/kg**Additional information:**

ambient temperature: 22.9°C; liquid temperature: 22.6°C;

SystemPerformanceCheck-D3500**DUT: Dipole; Type: D3500V2; Serial: SN1003**

Communication System: CW; Communication System Frequency: 3500.0 MHz

Medium parameters used: $f = 3500.0$ MHz, $\sigma = 2.70$ S/m; $\epsilon_r = 36.3$; $\rho = 1000$ kg/m³

Phantom Section: Flat

Measurement Standard: DASY 6

DASY Configuration:

- Probe: EX3DV4 - SN3944; ConvF(6.59, 7.02, 6.67); Calibrated: 2024-05-21
- Sensor-Surface: 1.4 mm
- DAE: DAE4 Sn477; Calibrated: 2024-05-22
- Phantom: ELI V8.0-I; Serial: 2101;
- Software: cDASY6 (16.2.4.2524)

HBBL-600-10000/3500.0MHz/Area Scan (10.0 x 10.0 x 1.0) :

Grid Extents [mm]: 40.0 x 80.0

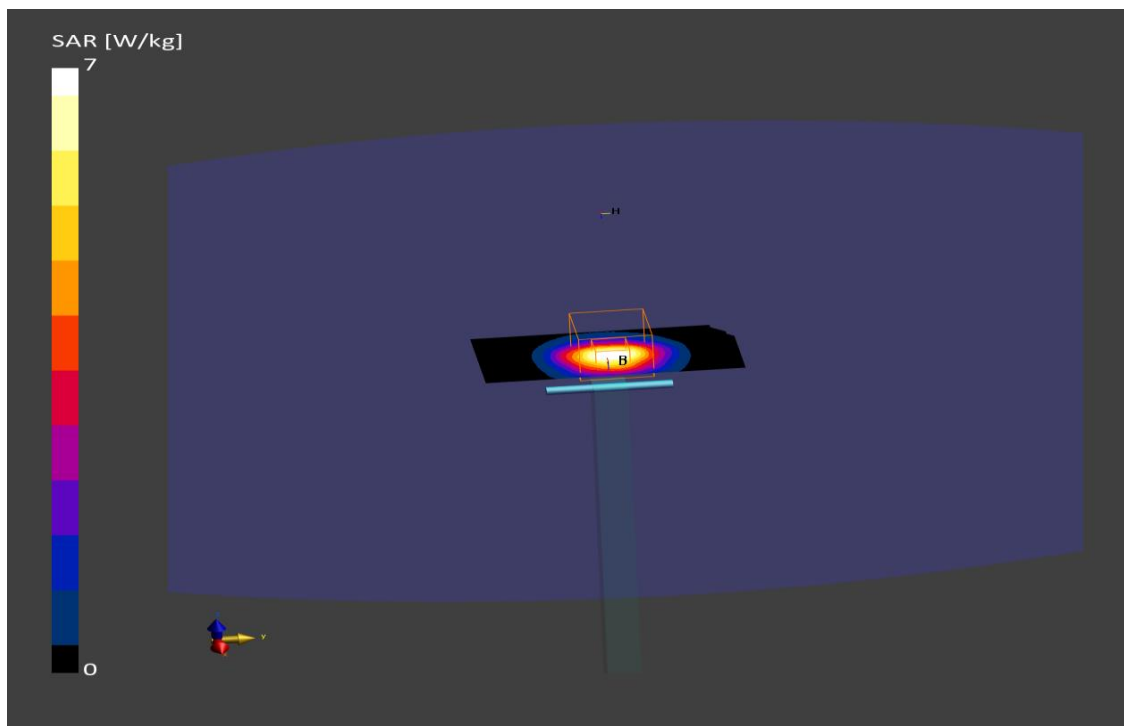
Maximum value of SAR (interpolated) - SAR(1 g) = 6.38 W/kg; SAR(10 g) = 2.53 W/kg

HBBL-600-10000/3500.0MHz/Zoom Scan (5.0 x 5.0 x 1.4) :

Grid Extents [mm]: 28.0 x 28.0 x 28.0

SPC Power = 20.0 dBm

Power Drift = 0.01 dB

SAR(1 g) = 6.64 W/kg; SAR(10 g) = 2.57 W/kg**Additional information:**

ambient temperature: 23.2°C; liquid temperature: 22.5°C;

SystemPerformanceCheck-D3700**DUT: Dipole; Type: D3700V2; Serial: SN1062**

Communication System: CW; Communication System Frequency: 3700.0 MHz

Medium parameters used: $f = 3700.0$ MHz, $\sigma = 2.87$ S/m; $\epsilon_r = 36.0$; $\rho = 1000$ kg/m³

Phantom Section: Flat

Measurement Standard: DASY 6

DASY Configuration:

- Probe: EX3DV4 - SN3944; ConvF(6.52, 6.94, 6.61); Calibrated: 2024-05-21
- Sensor-Surface: 1.4 mm
- DAE: DAE4 Sn477; Calibrated: 2024-05-22
- Phantom: ELI V8.0-I; Serial: 2101;
- Software: cDASY6 (16.2.4.2524)

HBBL-600-10000/3700.0MHz/Area Scan (10.0 x 10.0 x 1.0) :

Grid Extents [mm]: 40.0 x 80.0

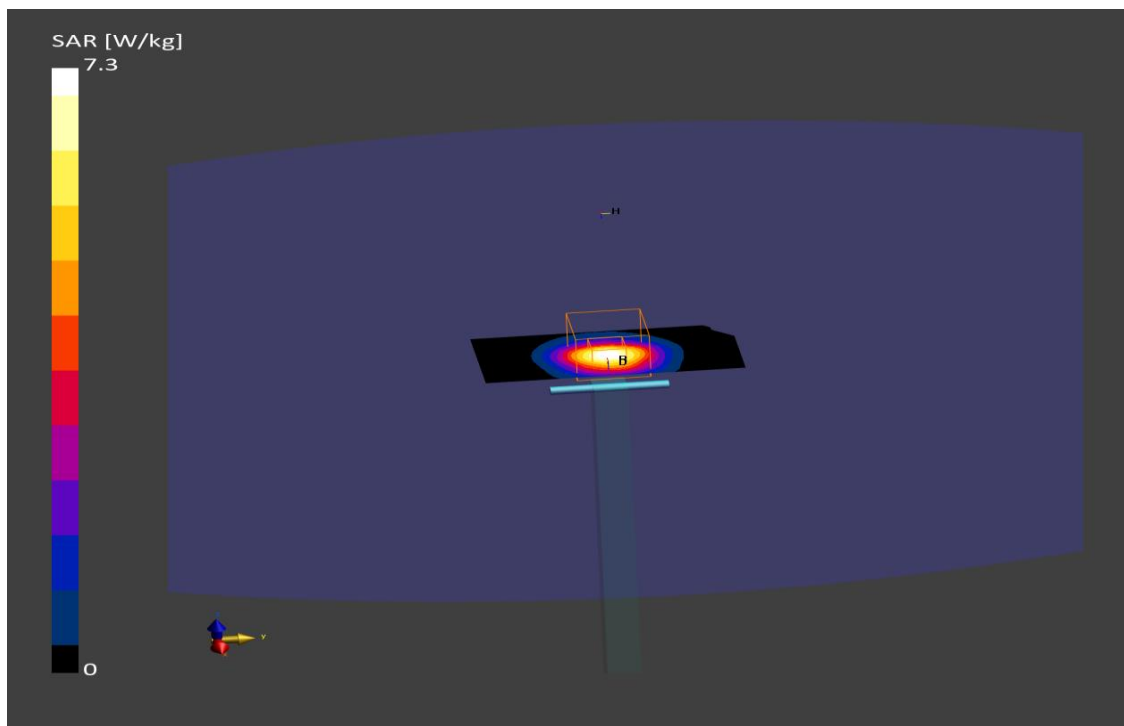
Maximum value of SAR (interpolated) - SAR(1 g) = 6.47 W/kg; SAR(10 g) = 2.48 W/kg

HBBL-600-10000/3700.0MHz/Zoom Scan (5.0 x 5.0 x 1.4) :

Grid Extents [mm]: 28.0 x 28.0 x 28.0

SPC Power = 20.0 dBm

Power Drift = -0.00 dB

SAR(1 g) = 6.72 W/kg; SAR(10 g) = 2.52 W/kg**Additional information:**

ambient temperature: 23.2°C; liquid temperature: 22.5°C;