

Appendix A

System Check 750 MHz Head
System Check 835 MHz Head
System Check 1750 MHz Head
System Check 1900 MHz Head
System Check 2300 MHz Head
System Check 2600 MHz Head
System Check 3500 MHz Head
System Check 3700 MHz Head
System Check 3900 MHz Head

Test Laboratory: TOWE Lab**System Check 750MHz****DUT: D750V3; Type: D750V3; Serial: 1231**

Communication System: UID 0, CW (0); Frequency: 750 MHz

Medium parameters used: $f = 750$ MHz; $\sigma = 0.904$ S/m; $\epsilon_r = 42.457$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7812; ConvF(9.47, 8.79, 8.85) @ 750 MHz; Calibrated: 2023/5/16
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn799; Calibrated: 2023/3/27
- Phantom: SAM 2; Type: SAM Twin; Serial: 1359
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

Area Scan (6x13x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 2.80 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 52.89 V/m; Power Drift = -0.18 dB

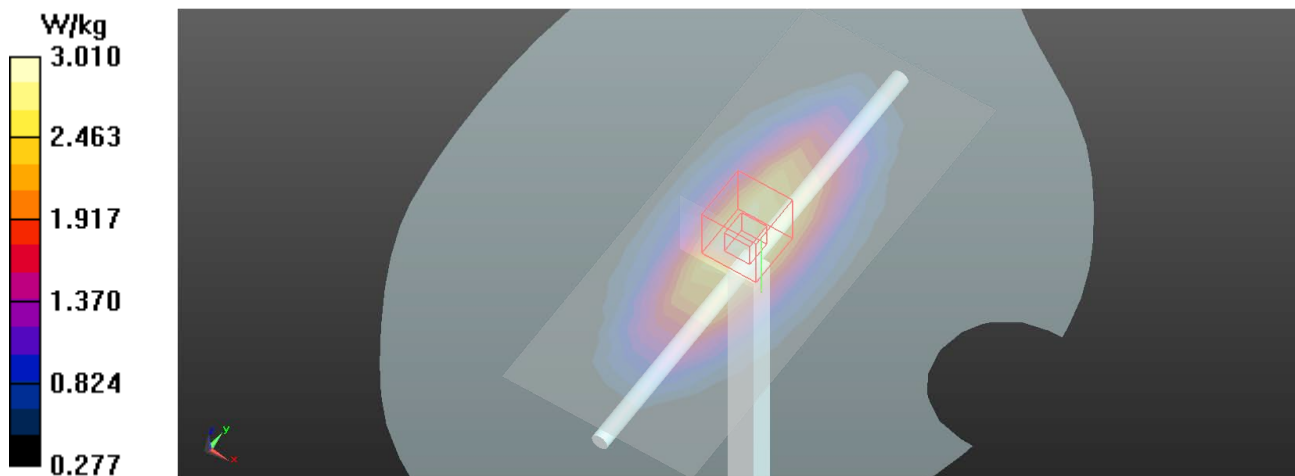
Peak SAR (extrapolated) = 3.39 W/kg

SAR(1 g) = 2.3 W/kg; SAR(10 g) = 1.52 W/kg

Smallest distance from peaks to all points 3 dB below = 17.6 mm

Ratio of SAR at M2 to SAR at M1 = 68%

Maximum value of SAR (measured) = 3.01 W/kg



Test Laboratory: TOWE Lab**System Check 750MHz****DUT: D750V3; Type: D750V3; Serial: 1231**

Communication System: UID 0, CW (0); Frequency: 750 MHz

Medium parameters used: $f = 750$ MHz; $\sigma = 0.898$ S/m; $\epsilon_r = 42.206$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7812; ConvF(9.47, 8.79, 8.85) @ 750 MHz; Calibrated: 2023/5/16
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn799; Calibrated: 2023/3/27
- Phantom: SAM 2; Type: SAM Twin; Serial: 1359
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

Area Scan (6x13x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 2.59 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 52.34 V/m; Power Drift = 0.02 dB

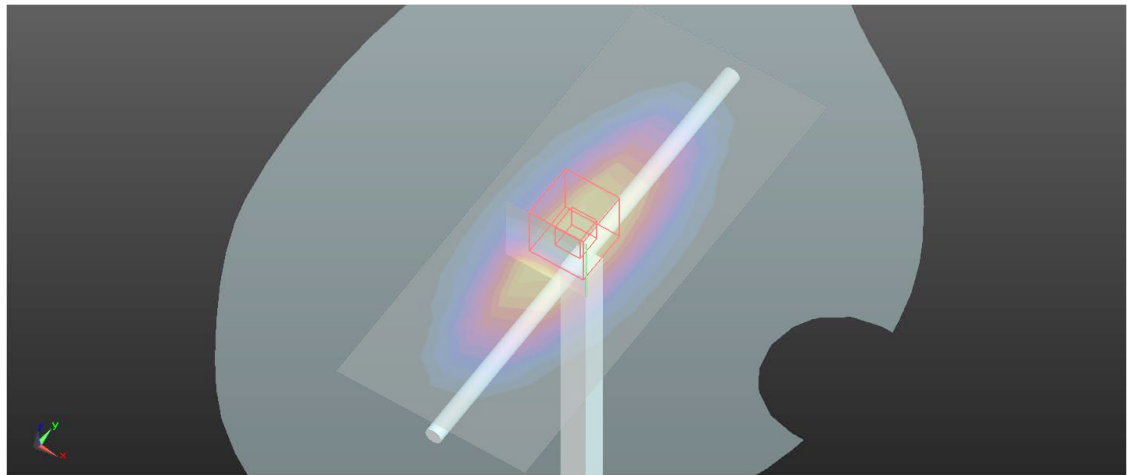
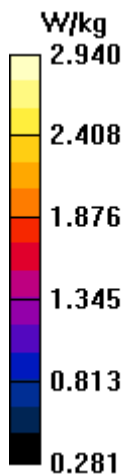
Peak SAR (extrapolated) = 3.24 W/kg

SAR(1 g) = 2.25 W/kg; SAR(10 g) = 1.5 W/kg

Smallest distance from peaks to all points 3 dB below = 16.1 mm

Ratio of SAR at M2 to SAR at M1 = 69.3%

Maximum value of SAR (measured) = 2.94 W/kg



Test Laboratory: TOWE Lab**System Check 750MHz****DUT: D750V3; Type: D750V3; Serial: 1231**

Communication System: UID 0, CW (0); Frequency: 750 MHz

Medium parameters used: $f = 750$ MHz; $\sigma = 0.9$ S/m; $\epsilon_r = 42.332$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7812; ConvF(9.47, 8.79, 8.85) @ 750 MHz; Calibrated: 2023/5/16
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn799; Calibrated: 2023/3/27
- Phantom: SAM 2; Type: SAM Twin; Serial: 1359
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

Area Scan (6x13x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 2.54 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 52.68 V/m; Power Drift = -0.00 dB

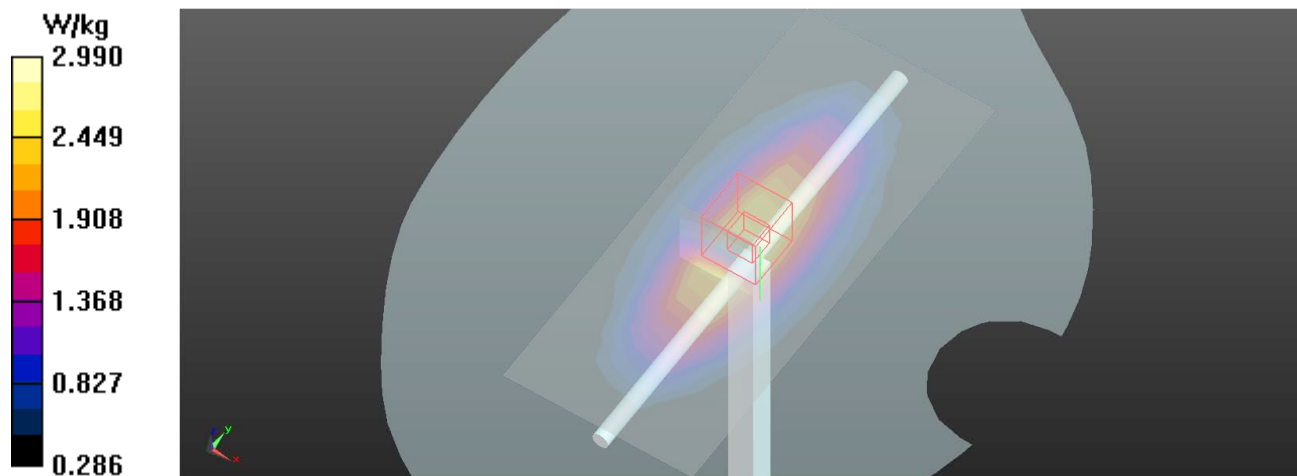
Peak SAR (extrapolated) = 3.30 W/kg

SAR(1 g) = 2.29 W/kg; SAR(10 g) = 1.52 W/kg

Smallest distance from peaks to all points 3 dB below = 17.9 mm

Ratio of SAR at M2 to SAR at M1 = 69%

Maximum value of SAR (measured) = 2.99 W/kg



Test Laboratory: TOWE Lab**System Check 835MHz****DUT: D835V2; Type: D835V2; Serial: 4d302**

Communication System: UID 0, CW (0); Frequency: 835 MHz

Medium parameters used: $f = 835$ MHz; $\sigma = 0.901$ S/m; $\epsilon_r = 41.573$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3624; ConvF(10.03, 10.03, 10.03) @ 835 MHz; Calibrated: 2023/5/17
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE3 Sn395; Calibrated: 2023/4/25
- Phantom: SAM 1; Type: SAM; Serial: 1473
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

Area Scan (7x13x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 3.23 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 54.53 V/m; Power Drift = 0.08 dB

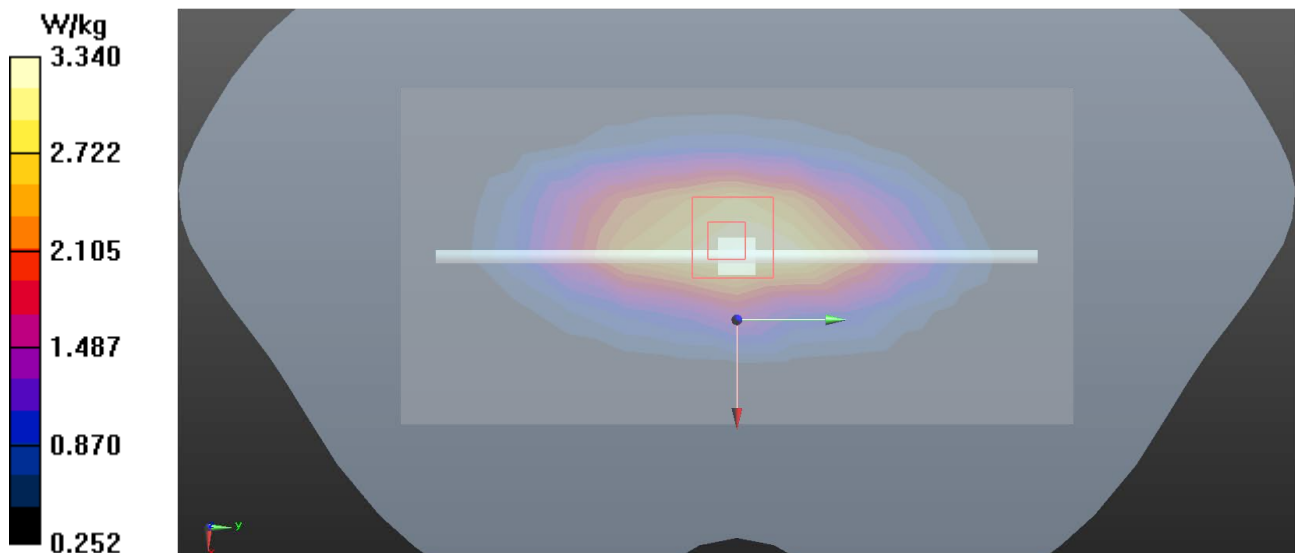
Peak SAR (extrapolated) = 3.79 W/kg

SAR(1 g) = 2.57 W/kg; SAR(10 g) = 1.64 W/kg

Smallest distance from peaks to all points 3 dB below = 17.6 mm

Ratio of SAR at M2 to SAR at M1 = 67.9%

Maximum value of SAR (measured) = 3.34 W/kg



Test Laboratory: TOWE Lab**System Check 835MHz****DUT: D835V2; Type: D835V2; Serial: 4d302**

Communication System: UID 0, CW (0); Frequency: 835 MHz

Medium parameters used: $f = 835$ MHz; $\sigma = 0.896$ S/m; $\epsilon_r = 42.501$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7812; ConvF(9.08, 8.64, 8.81) @ 835 MHz; Calibrated: 2023/5/16
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn799; Calibrated: 2023/3/27
- Phantom: SAM 2; Type: SAM Twin; Serial: 1359
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

Area Scan (6x12x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 2.73 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 55.04 V/m; Power Drift = -0.03 dB

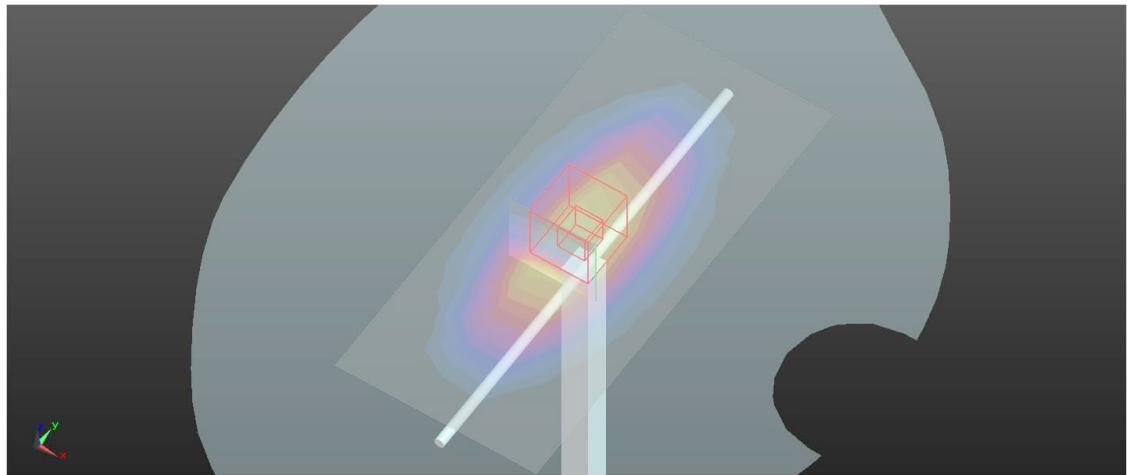
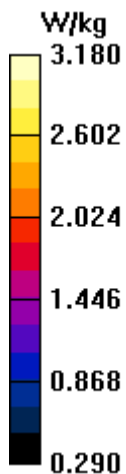
Peak SAR (extrapolated) = 3.52 W/kg

SAR(1 g) = 2.45 W/kg; SAR(10 g) = 1.63 W/kg

Smallest distance from peaks to all points 3 dB below = 17.6 mm

Ratio of SAR at M2 to SAR at M1 = 69.5%

Maximum value of SAR (measured) = 3.18 W/kg



Test Laboratory: TOWE Lab

System Check 1750MHz

DUT: D1750V2; Type: D1750V2; Serial: 1115

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

Medium parameters used: $f = 1750$ MHz; $\sigma = 1.383$ S/m; $\epsilon_r = 41.532$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7812; ConvF(7.98, 7.5, 7.4) @ 1750 MHz; Calibrated: 2023/5/16
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn799; Calibrated: 2023/3/27
- Phantom: SAM 2; Type: SAM Twin; Serial: 1359
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

Area Scan (5x9x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 14.9 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 89.27 V/m; Power Drift = -0.01 dB

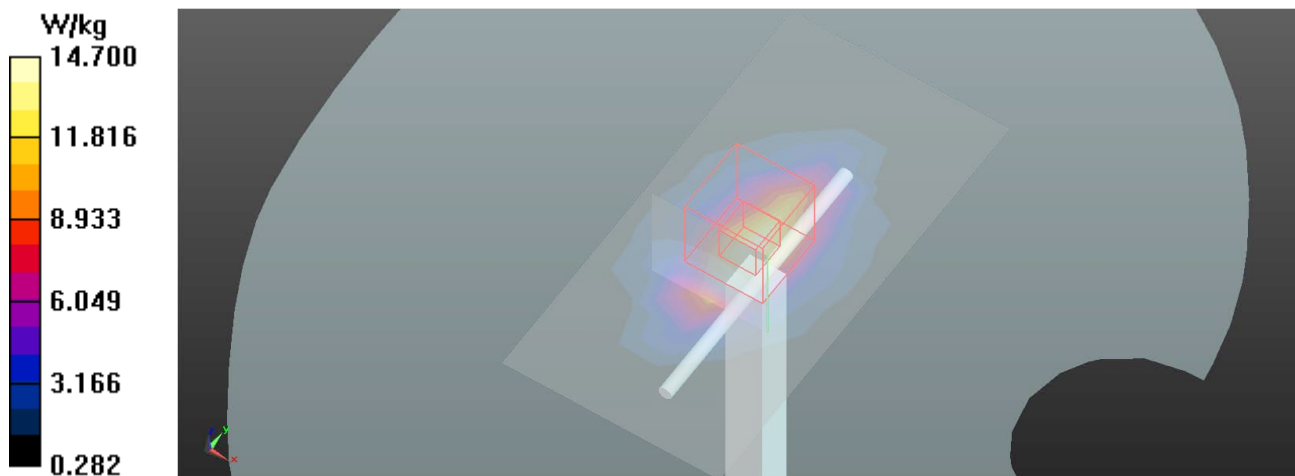
Peak SAR (extrapolated) = 17.2 W/kg

SAR(1 g) = 9.74 W/kg; SAR(10 g) = 5.21 W/kg

Smallest distance from peaks to all points 3 dB below = 9.6 mm

Ratio of SAR at M2 to SAR at M1 = 56.6%

Maximum value of SAR (measured) = 14.7 W/kg



Test Laboratory: TOWE Lab

System Check 1900 MHz

DUT: D1900V2; Type: Dipole; Serial: 512

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

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.373$ S/m; $\epsilon_r = 40.295$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7812; ConvF(7.8, 7.31, 7.26) @ 1900 MHz; Calibrated: 2023/5/16
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn799; Calibrated: 2023/3/27
- Phantom: SAM 2; Type: SAM Twin; Serial: 1359
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

Area Scan (5x9x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 15.9 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 93.06 V/m; Power Drift = 0.02 dB

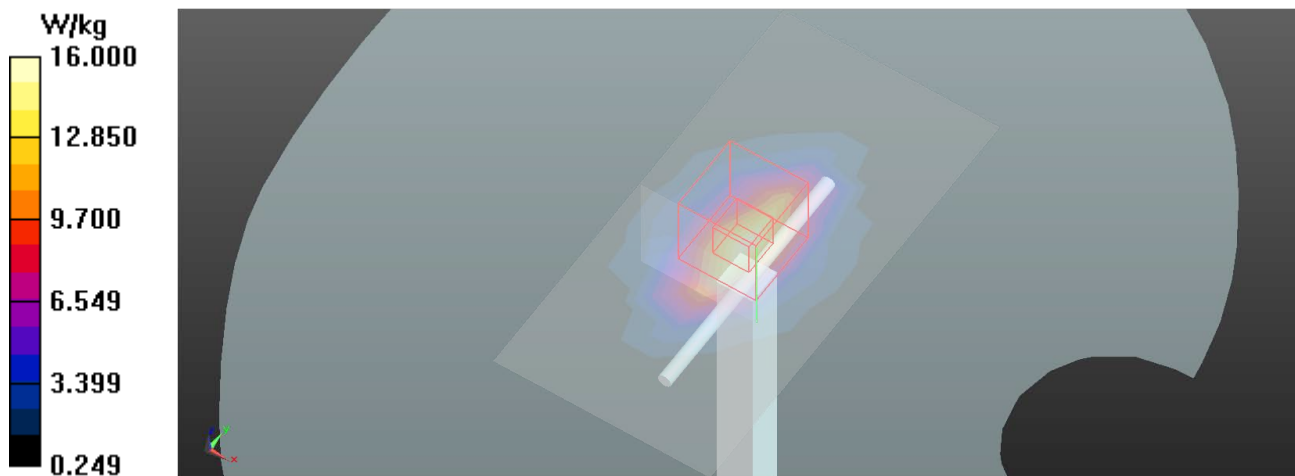
Peak SAR (extrapolated) = 18.7 W/kg

SAR(1 g) = 10.5 W/kg; SAR(10 g) = 5.43 W/kg

Smallest distance from peaks to all points 3 dB below = 9.6 mm

Ratio of SAR at M2 to SAR at M1 = 56%

Maximum value of SAR (measured) = 16.0 W/kg



Test Laboratory: TOWE Lab

System Check 2300MHz

DUT: D2300V2; Type: D2300V2; Serial: 1137

Communication System: UID 0, CW (0); Frequency: 2300 MHz

Medium parameters used: $f = 2300$ MHz; $\sigma = 1.668$ S/m; $\epsilon_r = 40.093$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7812; ConvF(7.52, 7.03, 7.01) @ 2300 MHz; Calibrated: 2023/5/16
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn799; Calibrated: 2023/3/27
- Phantom: SAM 2; Type: SAM Twin; Serial: 1359
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

Area Scan (6x7x1): Measurement grid: $dx=12$ mm, $dy=12$ mm

Maximum value of SAR (measured) = 15.3 W/kg

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

Reference Value = 92.75 V/m; Power Drift = 0.01 dB

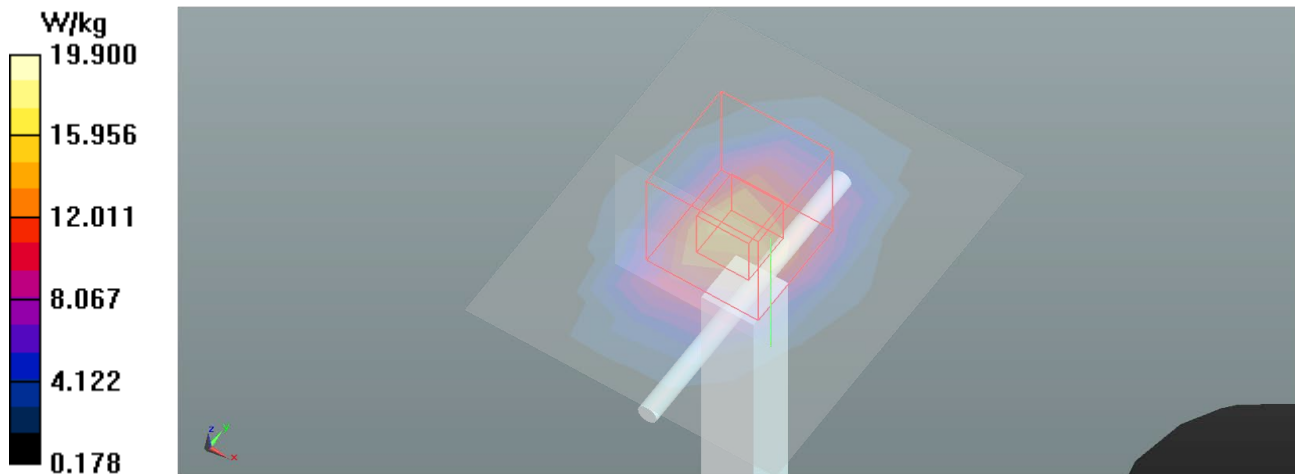
Peak SAR (extrapolated) = 24.0 W/kg

SAR(1 g) = 12.4 W/kg; SAR(10 g) = 5.93 W/kg

Smallest distance from peaks to all points 3 dB below = 9 mm

Ratio of SAR at M2 to SAR at M1 = 52.2%

Maximum value of SAR (measured) = 19.9 W/kg



Test Laboratory: TOWE Lab**System Check 2600MHz****DUT: D2600V2; Type: D2600V2; Serial: 1094**

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

Medium parameters used: $f = 2600$ MHz; $\sigma = 1.929$ S/m; $\epsilon_r = 39.419$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7812; ConvF(7.23, 6.7, 6.74) @ 2600 MHz; Calibrated: 2023/5/16
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn799; Calibrated: 2023/3/27
- Phantom: SAM 2; Type: SAM Twin; Serial: 1359
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

Area Scan (6x7x1): Measurement grid: $dx=12$ mm, $dy=12$ mm

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

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

Reference Value = 93.14 V/m; Power Drift = 0.06 dB

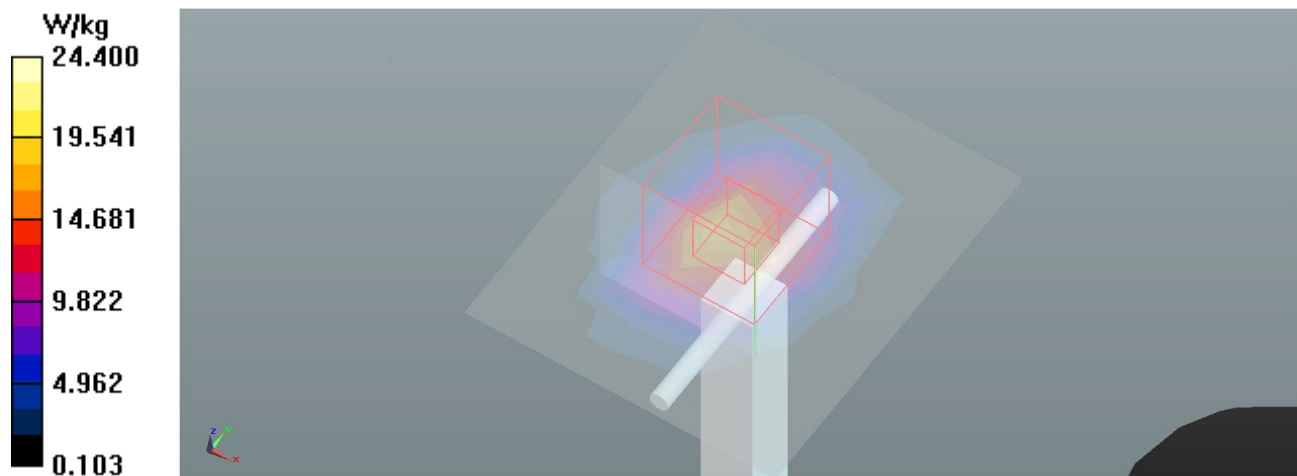
Peak SAR (extrapolated) = 30.3 W/kg

SAR(1 g) = 14.6 W/kg; SAR(10 g) = 6.52 W/kg

Smallest distance from peaks to all points 3 dB below = 9 mm

Ratio of SAR at M2 to SAR at M1 = 48.5%

Maximum value of SAR (measured) = 24.4 W/kg



Test Laboratory: TOWE Lab**System Check 3500MHz****DUT: D3500V2; Type: D3500V2; Serial: 1150**

Communication System: UID 0, CW (0); Frequency: 3500 MHz

Medium parameters used: $f = 3500$ MHz; $\sigma = 2.898$ S/m; $\epsilon_r = 38.269$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7812; ConvF(6.89, 6.37, 6.38) @ 3500 MHz; Calibrated: 2023/5/16
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 25.0$
- Electronics: DAE4 Sn799; Calibrated: 2023/3/27
- Phantom: SAM 2; Type: SAM Twin; Serial: 1359
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

Area Scan (6x7x1): Measurement grid: $dx=12$ mm, $dy=12$ mm

Maximum value of SAR (measured) = 9.50 W/kg

Zoom Scan (7x7x9)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=3$ mm

Reference Value = 53.67 V/m; Power Drift = -0.17 dB

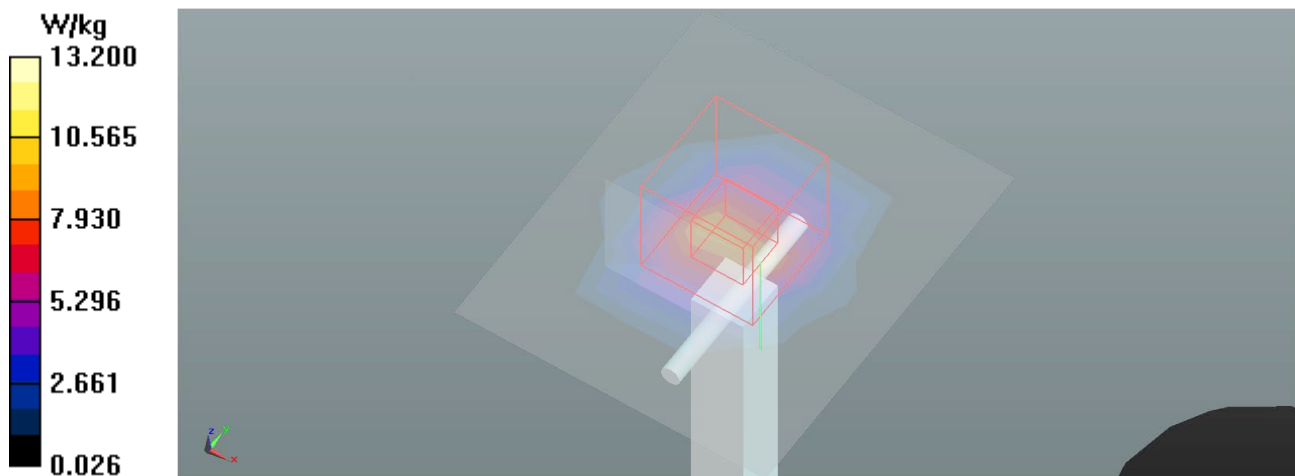
Peak SAR (extrapolated) = 17.4 W/kg

SAR(1 g) = 6.79 W/kg; SAR(10 g) = 2.57 W/kg

Smallest distance from peaks to all points 3 dB below = 8 mm

Ratio of SAR at M2 to SAR at M1 = 56.1%

Maximum value of SAR (measured) = 13.2 W/kg



Test Laboratory: TOWE Lab**System Check 3700MHz****DUT: D3700V2; Type: D3700V2; Serial: 1127**

Communication System: UID 0, CW (0); Frequency: 3700 MHz

Medium parameters used: $f = 3700$ MHz; $\sigma = 3.129$ S/m; $\epsilon_r = 38.009$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7812; ConvF(6.69, 6.18, 6.19) @ 3700 MHz; Calibrated: 2023/5/16
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 25.0$
- Electronics: DAE4 Sn799; Calibrated: 2023/3/27
- Phantom: SAM 2; Type: SAM Twin; Serial: 1359
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

Area Scan (6x7x1): Measurement grid: $dx=12$ mm, $dy=12$ mm

Maximum value of SAR (measured) = 9.60 W/kg

Zoom Scan (7x7x9)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=3$ mm

Reference Value = 51.98 V/m; Power Drift = -0.12 dB

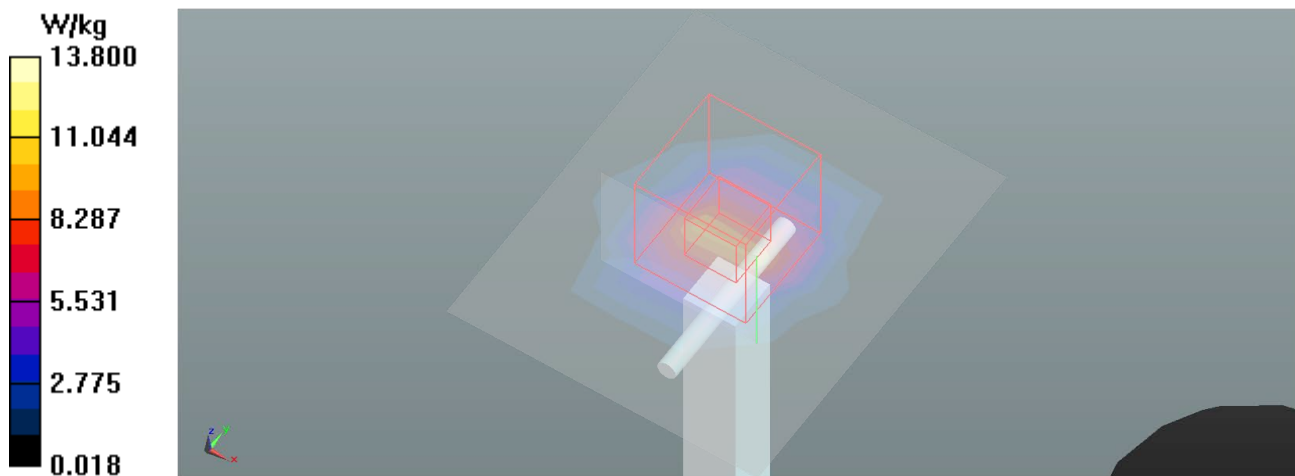
Peak SAR (extrapolated) = 18.7 W/kg

SAR(1 g) = 6.97 W/kg; SAR(10 g) = 2.55 W/kg

Smallest distance from peaks to all points 3 dB below = 8 mm

Ratio of SAR at M2 to SAR at M1 = 54.4%

Maximum value of SAR (measured) = 13.8 W/kg



Test Laboratory: TOWE Lab**System Check 3700MHz****DUT: D3700V2; Type: D3700V2; Serial: 1127**

Communication System: UID 0, CW (0); Frequency: 3700 MHz

Medium parameters used: $f = 3700$ MHz; $\sigma = 3.14$ S/m; $\epsilon_r = 38.134$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7812; ConvF(6.69, 6.18, 6.19) @ 3700 MHz; Calibrated: 2023/5/16
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 25.0$
- Electronics: DAE4 Sn799; Calibrated: 2023/3/27
- Phantom: SAM 2; Type: SAM Twin; Serial: 1359
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

Area Scan (6x7x1): Measurement grid: $dx=12$ mm, $dy=12$ mm

Maximum value of SAR (measured) = 9.47 W/kg

Zoom Scan (7x7x9)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=3$ mm

Reference Value = 51.75 V/m; Power Drift = -0.07 dB

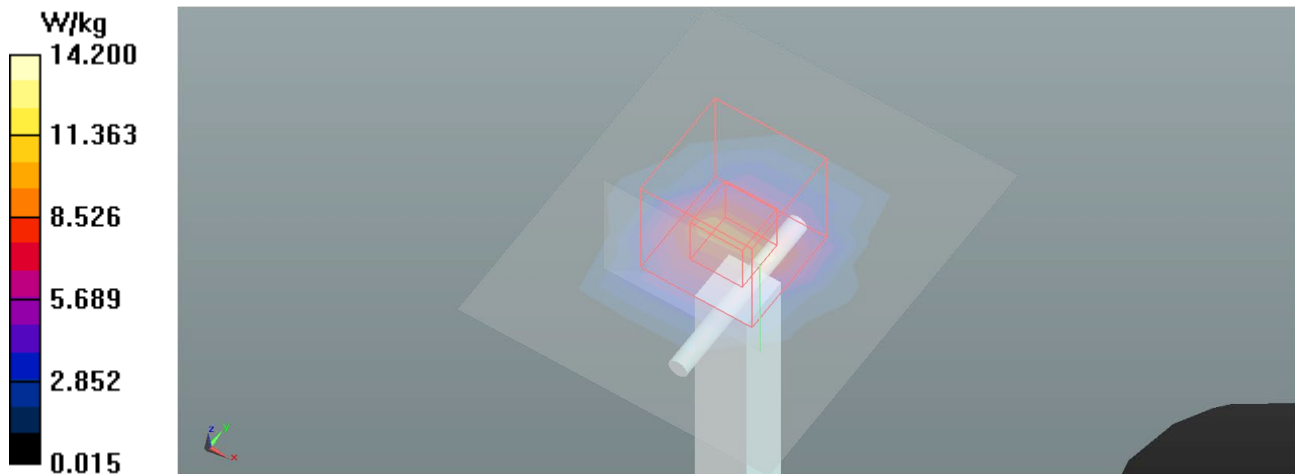
Peak SAR (extrapolated) = 19.0 W/kg

SAR(1 g) = 7.05 W/kg; SAR(10 g) = 2.57 W/kg

Smallest distance from peaks to all points 3 dB below = 8 mm

Ratio of SAR at M2 to SAR at M1 = 54%

Maximum value of SAR (measured) = 14.2 W/kg



Test Laboratory: TOWE Lab

System Check 3900MHz

DUT: D3900V2; Type: D3900V2; Serial: 1099

Communication System: UID 0, CW (0); Frequency: 3900 MHz

Medium parameters used: $f = 3900$ MHz; $\sigma = 3.325$ S/m; $\epsilon_r = 38.011$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7812; ConvF(6.58, 6.09, 6.1) @ 3900 MHz; Calibrated: 2023/5/16
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 25.0$
- Electronics: DAE4 Sn799; Calibrated: 2023/3/27
- Phantom: SAM 2; Type: SAM Twin; Serial: 1359
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

Area Scan (6x7x1): Measurement grid: $dx=12$ mm, $dy=12$ mm

Maximum value of SAR (measured) = 10.9 W/kg

Zoom Scan (7x7x9)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=3$ mm

Reference Value = 51.98 V/m; Power Drift = -0.15 dB

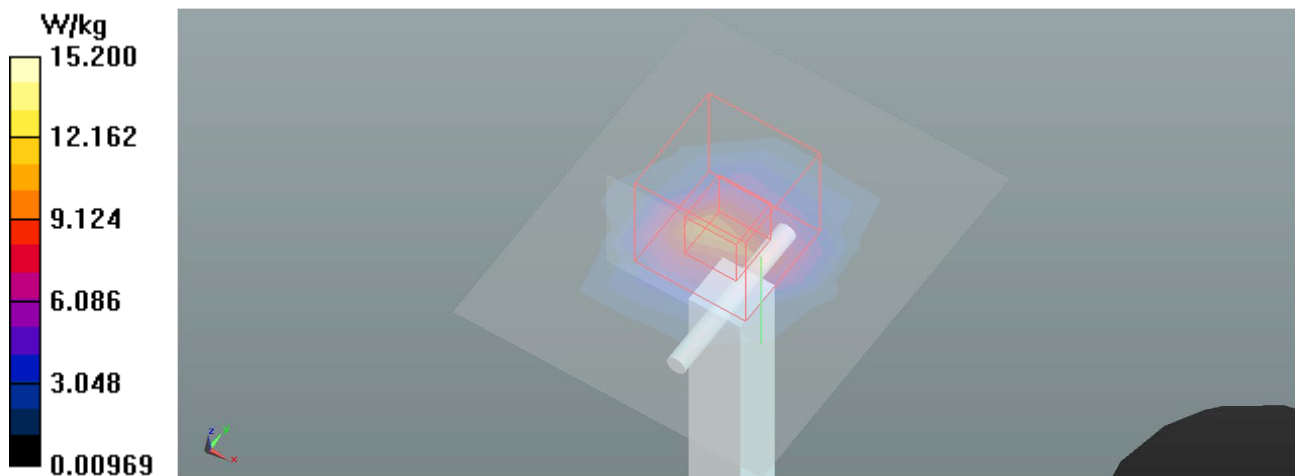
Peak SAR (extrapolated) = 21.2 W/kg

SAR(1 g) = 7.4 W/kg; SAR(10 g) = 2.55 W/kg

Smallest distance from peaks to all points 3 dB below = 7.6 mm

Ratio of SAR at M2 to SAR at M1 = 52.2%

Maximum value of SAR (measured) = 15.2 W/kg



Test Laboratory: TOWE Lab**System Check 3900MHz****DUT: D3900V2; Type: D3900V2; Serial: 1099**

Communication System: UID 0, CW (0); Frequency: 3900 MHz

Medium parameters used: $f = 3900$ MHz; $\sigma = 3.333$ S/m; $\epsilon_r = 38.098$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7812; ConvF(6.58, 6.09, 6.1) @ 3900 MHz; Calibrated: 2023/5/16
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 25.0$
- Electronics: DAE4 Sn799; Calibrated: 2023/3/27
- Phantom: SAM 2; Type: SAM Twin; Serial: 1359
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

Area Scan (6x7x1): Measurement grid: $dx=12$ mm, $dy=12$ mm

Maximum value of SAR (measured) = 10.3 W/kg

Zoom Scan (7x7x9)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=3$ mm

Reference Value = 51.41 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 21.1 W/kg

SAR(1 g) = 7.36 W/kg; SAR(10 g) = 2.54 W/kg

Smallest distance from peaks to all points 3 dB below = 7.6 mm

Ratio of SAR at M2 to SAR at M1 = 52.1%

Maximum value of SAR (measured) = 15.4 W/kg

