

Appendix A Verification Plots

Appendix A.1 Verification Plots for Verification 750MHz

Date/Time: 2023-09-30 09:08:19

Test Laboratory : SGS Korea (Gunpo Laboratory)
File Name: [Verification 750MHz_2023-09-30_da53.0](#)

Input Power : 100mW

DUT: Dipole 750 MHz D750V3; Type: D750V3; Serial: D750V3 - SN:1085

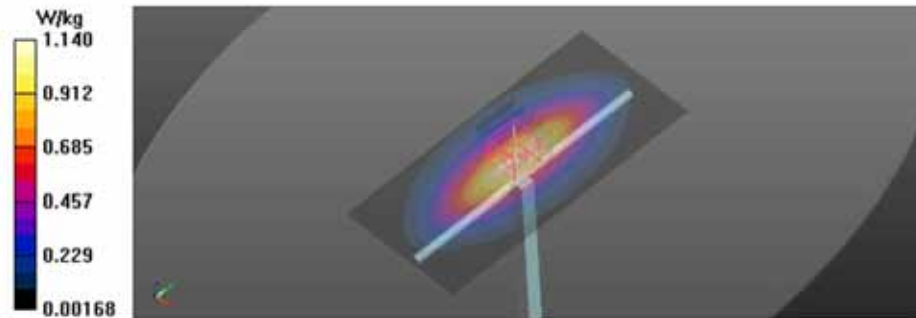
Communication System: UID 0, CW (0); Frequency: 750 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 750 \text{ MHz}$; $\sigma = 0.927 \text{ S/m}$; $\epsilon_r = 40.469$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3791; ConvF(9, 9, 9) @ 750 MHz; Calibrated: 2023-05-23
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1503; Calibrated: 2023-08-28
- Phantom: ELI v5.0 1244; Type: QDOVA002AA; Serial: TP:1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Verification/Verification 750MHz/Area Scan (61x131x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 1.14 W/kg

Verification/Verification 750MHz/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 36.55 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 1.27 W/kg
SAR(1 g) = 0.867 W/kg; SAR(10 g) = 0.590 W/kg
Smallest distance from peaks to all points 3 dB below = 18.7 mm
Ratio of SAR at M2 to SAR at M1 = 68.4%
Maximum value of SAR (measured) = 1.13 W/kg



Date/Time: 2023-10-01 08:54:27

Test Laboratory : SGS Korea (Gunpo Laboratory)
File Name: [Verification 750MHz_2023-10-01_da53-0](#)

Input Power : 100mW

DUT: Dipole 750 MHz D750V3; Type: D750V3; Serial: D750V3 - SN:1085

Communication System: UID 0, CW (0); Frequency: 750 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 750 \text{ MHz}$; $\sigma = 0.92 \text{ S/m}$; $\epsilon_r = 41.361$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3791; ConvF(9, 9, 9) @ 750 MHz; Calibrated: 2023-05-23
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1503; Calibrated: 2023-08-28
- Phantom: ELI v5.0 1244; Type: QDOVA002AA; Serial: TP:1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Verification/Verification 750MHz/Area Scan (61x131x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 1.09 W/kg

Verification/Verification 750MHz/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 35.98 V/m; Power Drift = 0.05 dB

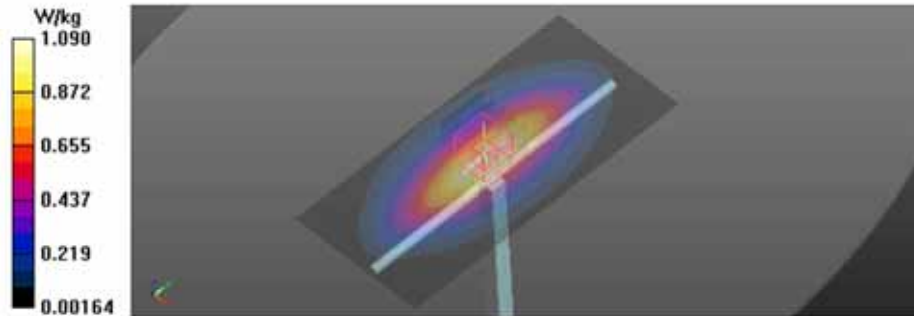
Peak SAR (extrapolated) = 1.23 W/kg

SAR(1 g) = 0.837 W/kg; SAR(10 g) = 0.568 W/kg

Smallest distance from peaks to all points 3 dB below = 19.5 mm

Ratio of SAR at M2 to SAR at M1 = 68.3%

Maximum value of SAR (measured) = 1.10 W/kg



Date/Time: 2023-10-02 09:07:50

Test Laboratory : SGS Korea (Gunpo Laboratory)
File Name: [Verification 750MHz_2023-10-02_da53-0](#)

Input Power : 100mW

DUT: Dipole 750 MHz D750V3; Type: D750V3; Serial: D750V3 - SN:1085

Communication System: UID 0, CW (0); Frequency: 750 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 750 \text{ MHz}$; $\sigma = 0.918 \text{ S/m}$; $\epsilon_r = 41.88$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3791; ConvF(9, 9, 9) @ 750 MHz; Calibrated: 2023-05-23
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1503; Calibrated: 2023-08-28
- Phantom: ELI v5.0 1244; Type: QDOVA002AA; Serial: TP:1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Verification/Verification 750MHz/Area Scan (61x131x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 1.11 W/kg

Verification/Verification 750MHz/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 36.39 V/m; Power Drift = 0.02 dB

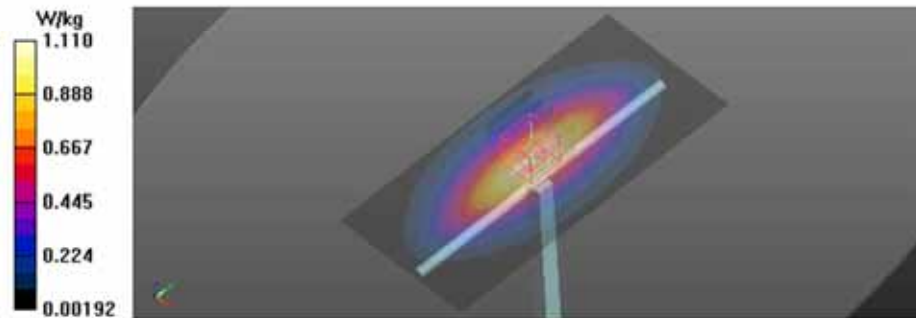
Peak SAR (extrapolated) = 1.25 W/kg

SAR(1 g) = 0.850 W/kg; SAR(10 g) = 0.577 W/kg

Smallest distance from peaks to all points 3 dB below = 19.5 mm

Ratio of SAR at M2 to SAR at M1 = 68.3%

Maximum value of SAR (measured) = 1.12 W/kg



Date/Time: 2023-10-04 09:09:10

Test Laboratory : SGS Korea (Gunpo Laboratory)
File Name: [Verification 750MHz_2023-10-04_da53-0](#)

Input Power : 100mW

DUT: Dipole 750 MHz D750V3; Type: D750V3; Serial: D750V3 - SN:1085

Communication System: UID 0, CW (0); Frequency: 750 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 750 \text{ MHz}$; $\sigma = 0.917 \text{ S/m}$; $\epsilon_r = 41.455$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3791; ConvF(9, 9, 9) @ 750 MHz; Calibrated: 2023-05-23
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1503; Calibrated: 2023-08-28
- Phantom: ELI v5.0 1244; Type: QDOVA002AA; Serial: TP:1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Verification/Verification 750MHz/Area Scan (61x131x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 1.08 W/kg

Verification/Verification 750MHz/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 36.00 V/m; Power Drift = 0.02 dB

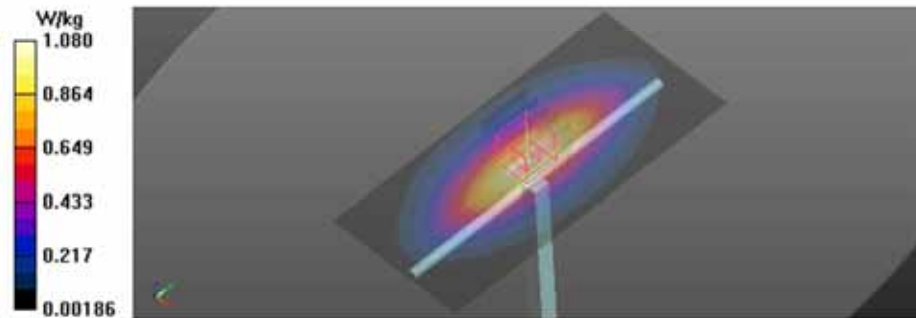
Peak SAR (extrapolated) = 1.22 W/kg

SAR(1 g) = 0.830 W/kg; SAR(10 g) = 0.563 W/kg

Smallest distance from peaks to all points 3 dB below = 19.5 mm

Ratio of SAR at M2 to SAR at M1 = 68.2%

Maximum value of SAR (measured) = 1.09 W/kg



Date/Time: 2023-10-13 00:53:32

Test Laboratory : SGS Korea (Gunpo Laboratory)
File Name: [Verification 750MHz_2023-10-13_da53-0](#)

Input Power : 100mW

DUT: Dipole 750 MHz D750V3; Type: D750V3; Serial: D750V3 - SN:1085

Communication System: UID 0, CW (0); Frequency: 750 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 750 \text{ MHz}$; $\sigma = 0.877 \text{ S/m}$; $\epsilon_r = 41.666$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3791; ConvF(9, 9, 9) @ 750 MHz; Calibrated: 2023-05-23
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1503; Calibrated: 2023-08-28
- Phantom: ELI v5.0 1244; Type: QDOVA002AA; Serial: TP:1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Verification/Verification 750MHz/Area Scan (61x131x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 1.11 W/kg

Verification/Verification 750MHz/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 37.49 V/m; Power Drift = -0.08 dB

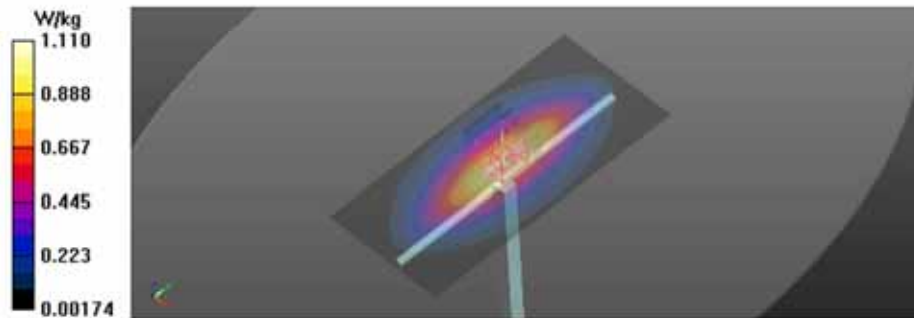
Peak SAR (extrapolated) = 1.26 W/kg

SAR(1 g) = 0.834 W/kg; SAR(10 g) = 0.562 W/kg

Smallest distance from peaks to all points 3 dB below = 21.5 mm

Ratio of SAR at M2 to SAR at M1 = 66.6%

Maximum value of SAR (measured) = 1.11 W/kg



Date/Time: 2023-10-17 01:20:49

Test Laboratory : SGS Korea (Gunpo Laboratory)
File Name: [Verification 750MHz_2023-10-17_da53-0](#)

Input Power : 100mW

DUT: Dipole 750 MHz D750V3; Type: D750V3; Serial: D750V3 - SN:1085

Communication System: UID 0, CW (0); Frequency: 750 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 750 \text{ MHz}$; $\sigma = 0.876 \text{ S/m}$; $\epsilon_r = 42.985$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3791; ConvF(9, 9, 9) @ 750 MHz; Calibrated: 2023-05-23
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1503; Calibrated: 2023-08-28
- Phantom: ELI v5.0 1244; Type: QDOVA002AA; Serial: TP:1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Verification/Verification 750MHz/Area Scan (61x131x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 1.11 W/kg

Verification/Verification 750MHz/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 37.12 V/m; Power Drift = -0.01 dB

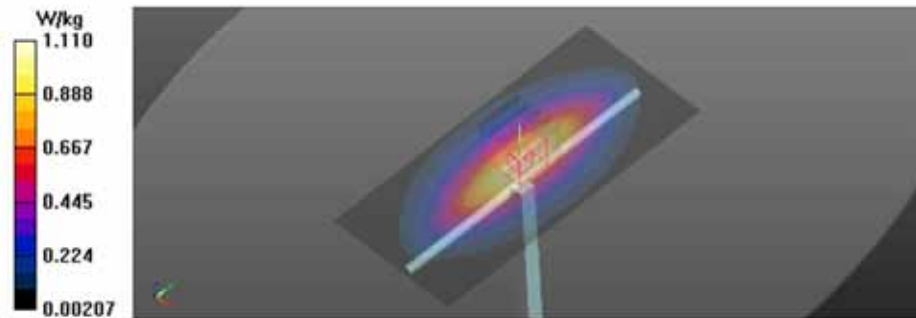
Peak SAR (extrapolated) = 1.25 W/kg

SAR(1 g) = 0.830 W/kg; SAR(10 g) = 0.560 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 66.8%

Maximum value of SAR (measured) = 1.09 W/kg



Date/Time: 2023-10-19 00:36:38

Test Laboratory : SGS Korea (Gunpo Laboratory)
 File Name: [Verification 750MHz_2023-10-19_da53-0](#)

Input Power : 100mW

DUT: Dipole 750 MHz D750V3; Type: D750V3; Serial: D750V3 - SN:1085

Communication System: UID 0, CW (0); Frequency: 750 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 750 \text{ MHz}$; $\sigma = 0.899 \text{ S/m}$; $\epsilon_r = 43.538$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3791; ConvF(9, 9, 9) @ 750 MHz; Calibrated: 2023-05-23
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1503; Calibrated: 2023-08-28
- Phantom: ELI v5.0 1244; Type: QDOVA002AA; Serial: TP:1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Verification/Verification 750MHz/Area Scan (61x131x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
 Maximum value of SAR (interpolated) = 1.16 W/kg

Verification/Verification 750MHz/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 37.60 V/m; Power Drift = 0.13 dB

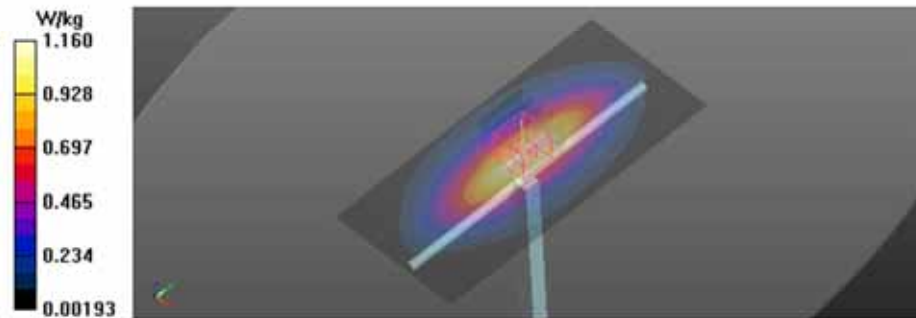
Peak SAR (extrapolated) = 1.37 W/kg

SAR(1 g) = 0.876 W/kg; SAR(10 g) = 0.584 W/kg

Smallest distance from peaks to all points 3 dB below = 16 mm

Ratio of SAR at M2 to SAR at M1 = 64.2%

Maximum value of SAR (measured) = 1.19 W/kg



Appendix A.2 Verification Plots for Verification 835MHz

Date/Time: 2023-10-03 07:25:37

Test Laboratory : SGS Korea (Gunpo Laboratory)
File Name: [Verification 835MHz_2023-10-03_da53-0](#)

Input Power : 100mW

DUT: Dipole 835 MHz D835V2; Type: D835V2; Serial: D835V2 - SN:4d138

Communication System: UID 0, CW (0); Frequency: 835 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.911 \text{ S/m}$; $\epsilon_r = 41.386$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3791; ConvF(8.79, 8.79, 8.79) @ 835 MHz; Calibrated: 2023-05-23
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1503; Calibrated: 2023-08-28
- Phantom: ELI v5.0 1244; Type: QDOVA002AA; Serial: TP:1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Verification/Verification 835MHz/Area Scan (61x131x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 1.36 W/kg

Verification/Verification 835MHz/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 39.55 V/m; Power Drift = -0.06 dB

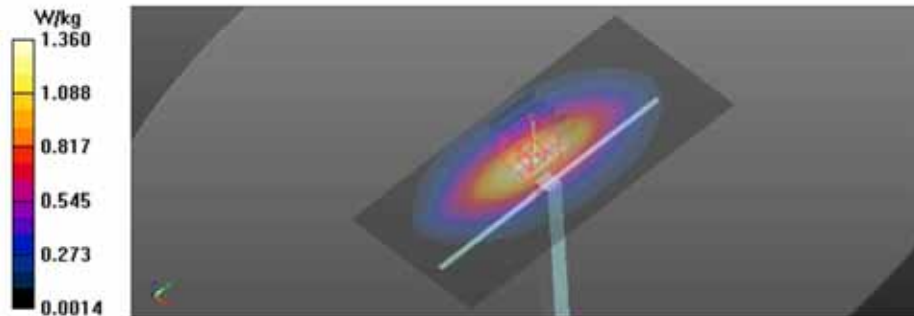
Peak SAR (extrapolated) = 1.41 W/kg

SAR(1 g) = 0.952 W/kg; SAR(10 g) = 0.641 W/kg

Smallest distance from peaks to all points 3 dB below = 17.2 mm

Ratio of SAR at M2 to SAR at M1 = 67.5%

Maximum value of SAR (measured) = 1.26 W/kg



Date/Time: 2023-10-10 06:05:48

Test Laboratory : SGS Korea (Gunpo Laboratory)
File Name: [Verification 835MHz_2023-10-10_da53-0](#)

Input Power : 100mW

DUT: Dipole 835 MHz D835V2; Type: D835V2; Serial: D835V2 - SN:4d138

Communication System: UID 0, CW (0); Frequency: 835 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.935 \text{ S/m}$; $\epsilon_r = 40.446$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3791; ConvF(8.79, 8.79, 8.79) @ 835 MHz; Calibrated: 2023-05-23
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1503; Calibrated: 2023-08-28
- Phantom: ELI v5.0 1244; Type: QDOVA002AA; Serial: TP:1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Verification/Verification 835MHz/Area Scan (61x131x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 1.34 W/kg

Verification/Verification 835MHz/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 38.33 V/m; Power Drift = 0.07 dB

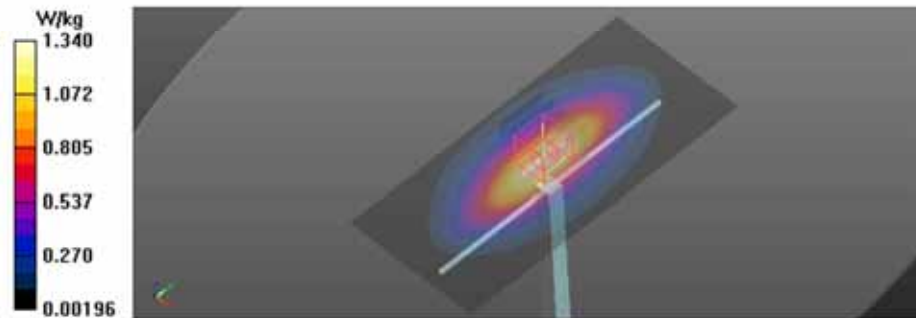
Peak SAR (extrapolated) = 1.44 W/kg

SAR(1 g) = 0.965 W/kg; SAR(10 g) = 0.646 W/kg

Smallest distance from peaks to all points 3 dB below = 17.2 mm

Ratio of SAR at M2 to SAR at M1 = 66.9%

Maximum value of SAR (measured) = 1.28 W/kg



Date/Time: 2023-10-16 01:00:39

Test Laboratory : SGS Korea (Gunpo Laboratory)
File Name: [Verification 835MHz_2023-10-16_da53-0](#)

Input Power : 100mW

DUT: Dipole 835 MHz D835V2; Type: D835V2; Serial: D835V2 - SN:4d138

Communication System: UID 0, CW (0); Frequency: 835 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.883 \text{ S/m}$; $\epsilon_r = 43.435$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3791; ConvF(8.79, 8.79, 8.79) @ 835 MHz; Calibrated: 2023-05-23
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1503; Calibrated: 2023-08-28
- Phantom: ELI v5.0 1244; Type: QDOVA002AA; Serial: TP:1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Verification/Verification 835MHz/Area Scan (61x131x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 1.34 W/kg

Verification/Verification 835MHz/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 40.58 V/m; Power Drift = -0.02 dB

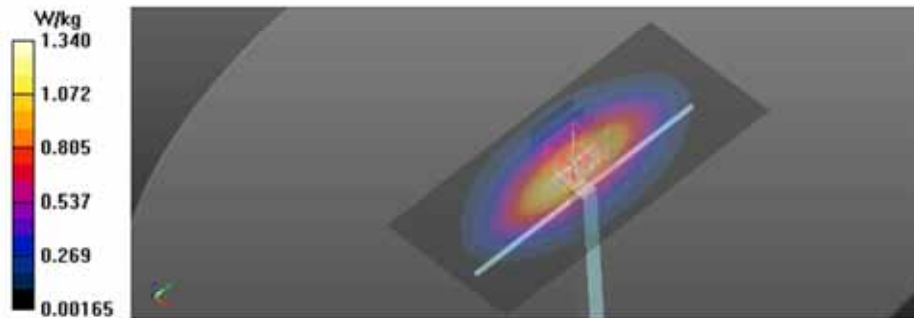
Peak SAR (extrapolated) = 1.44 W/kg

SAR(1 g) = 0.969 W/kg; SAR(10 g) = 0.651 W/kg

Smallest distance from peaks to all points 3 dB below = 16 mm

Ratio of SAR at M2 to SAR at M1 = 67.2%

Maximum value of SAR (measured) = 1.28 W/kg



Date/Time: 2023-10-18 01:26:00

Test Laboratory : SGS Korea (Gunpo Laboratory)
File Name: [Verification 835MHz_2023-10-18_da53-0](#)

Input Power : 100mW

DUT: Dipole 835 MHz D835V2; Type: D835V2; Serial: D835V2 - SN:4d138

Communication System: UID 0, CW (0); Frequency: 835 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.879 \text{ S/m}$; $\epsilon_r = 41.803$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3791; ConvF(8.79, 8.79, 8.79) @ 835 MHz; Calibrated: 2023-05-23
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1503; Calibrated: 2023-08-28
- Phantom: ELI v5.0 1244; Type: QDOVA002AA; Serial: TP:1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Verification/Verification 835MHz/Area Scan (61x131x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 1.24 W/kg

Verification/Verification 835MHz/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 38.97 V/m; Power Drift = 0.06 dB

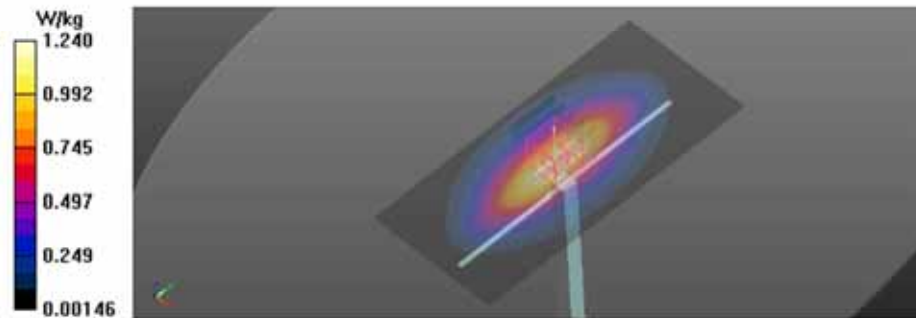
Peak SAR (extrapolated) = 1.40 W/kg

SAR(1 g) = 0.937 W/kg; SAR(10 g) = 0.629 W/kg

Smallest distance from peaks to all points 3 dB below = 16 mm

Ratio of SAR at M2 to SAR at M1 = 67.2%

Maximum value of SAR (measured) = 1.24 W/kg



Date/Time: 2024-06-11 09:35:21

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: [Verification 835MHz_2024-06-11.da53:0](#)

Input Power : 100mW

DUT: Dipole 835 MHz D835V2; Type: D835V2; Serial: D835V2 - SN:4d138

Communication System: UID 0, CW (0); Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 835$ MHz; $\sigma = 0.906$ S/m; $\epsilon_r = 42.754$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3791; ConvF(8.68, 8.71, 7.96) @ 835 MHz; Calibrated: 2024-04-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1503; Calibrated: 2023-08-28
- Phantom: ELI V8.0 (20deg probe tilt); Type: QD OVA 004 Ax; Serial: 1200
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Verification/Verification 835MHz/Area Scan (61x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.25 W/kg

Verification/Verification 835MHz/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 39.32 V/m; Power Drift = -0.19 dB

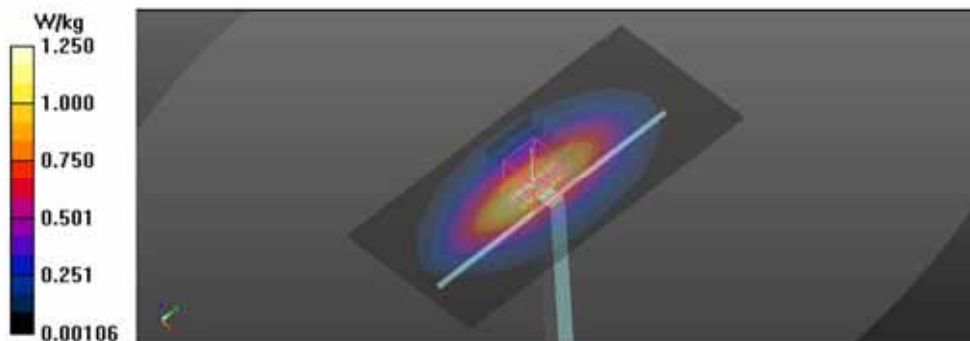
Peak SAR (extrapolated) = 1.35 W/kg

SAR(1 g) = 0.940 W/kg; SAR(10 g) = 0.619 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%

Maximum value of SAR (measured) = 1.23 W/kg



Date/Time: 2024-06-12 08:32:41

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: [Verification 835MHz_2024-06-12_da53:0](#)

Input Power : 100mW

DUT: Dipole 835 MHz D835V2; Type: D835V2; Serial: D835V2 - SN:4d138

Communication System: UID 0, CW (0); Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 835$ MHz; $\sigma = 0.896$ S/m; $\epsilon_r = 42.082$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3791; ConvF(8.68, 8.71, 7.96) @ 835 MHz; Calibrated: 2024-04-22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1503; Calibrated: 2023-08-28
- Phantom: ELI V8.0 (20deg probe tilt); Type: QD OVA 004 Ax; Serial: 1200
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Verification/Verification 835MHz/Area Scan (61x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.22 W/kg

Verification/Verification 835MHz/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 39.49 V/m; Power Drift = -0.00 dB

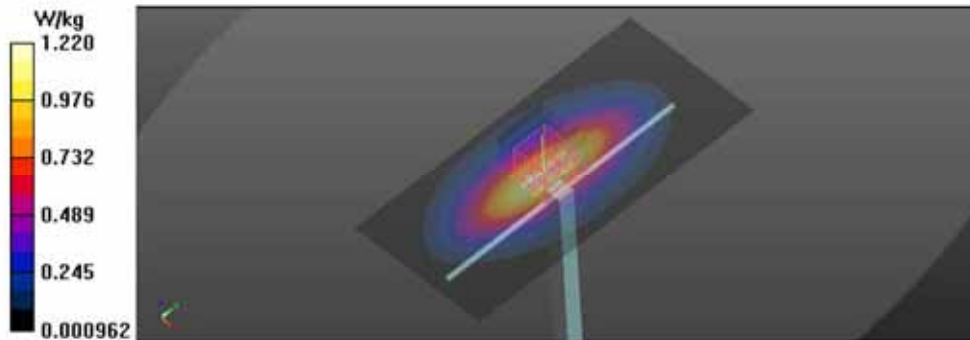
Peak SAR (extrapolated) = 1.36 W/kg

SAR(1 g) = 0.950 W/kg; SAR(10 g) = 0.627 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 69.7%

Maximum value of SAR (measured) = 1.23 W/kg



Appendix A.3 Verification Plots for Verification 1750MHz

Date/Time: 2023-10-07 03:45:34

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: [Verification 1750MHz_2023-10-07_da53.0](#)

Input Power : 100mW

DUT: Dipole 1750 MHz D1750V2; Type: D1750V2; Serial: D1750V2 - SN:1116

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

Medium parameters used: $f = 1750$ MHz; $\sigma = 1.393$ S/m; $\epsilon_r = 39.648$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3791; ConvF(7.6, 7.6, 7.6) @ 1750 MHz; Calibrated: 2023-05-23
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1503; Calibrated: 2023-08-28
- Phantom: ELI v5.0 1244; Type: QDOVA002AA; Serial: TP:1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Verification/Verification 1750MHz/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 6.41 W/kg

Verification/Verification 1750MHz/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 69.06 V/m; Power Drift = -0.07 dB

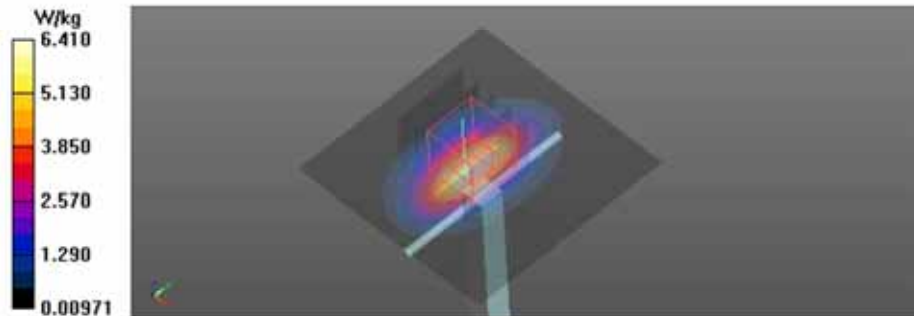
Peak SAR (extrapolated) = 6.34 W/kg

SAR(1 g) = 3.64 W/kg; SAR(10 g) = 2 W/kg

Smallest distance from peaks to all points 3 dB below = 11.2 mm

Ratio of SAR at M2 to SAR at M1 = 57.6%

Maximum value of SAR (measured) = 5.36 W/kg



Date/Time: 2023-10-13 13:34:37

Test Laboratory : SGS Korea (Gunpo Laboratory)
File Name: [Verification 1750MHz_2023-10-13.da53:0](#)

Input Power : 100 mW

DUT: Dipole 1750 MHz D1750V2; Type: D1750V2; Serial: D1750V2 - SN:1116

Communication System: UID 0, CW (0); Frequency: 1750 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1750$ MHz; $\sigma = 1.402$ S/m; $\epsilon_r = 41.25$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3791; ConvF(7.6, 7.6, 7.6) @ 1750 MHz; Calibrated: 2023-05-23
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1503; Calibrated: 2023-08-28
- Phantom: ELI v5.0 1244; Type: QDOVA002AA; Serial: TP:1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Verification/Verification 1750MHz/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 5.67 W/kg

Verification/Verification 1750MHz/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 64.47 V/m; Power Drift = -0.07 dB

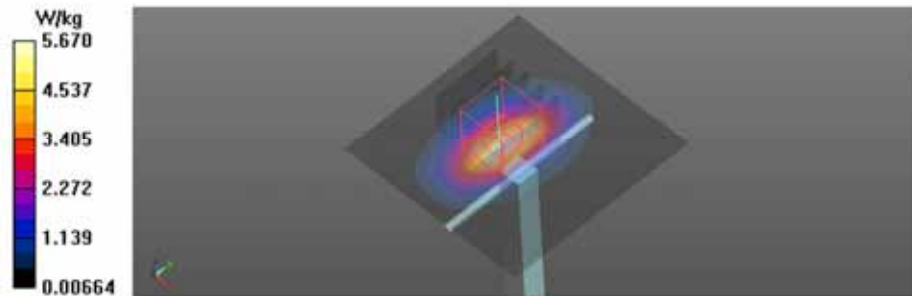
Peak SAR (extrapolated) = 6.22 W/kg

SAR(1 g) = 3.61 W/kg; SAR(10 g) = 2 W/kg

Smallest distance from peaks to all points 3 dB below = 11.2 mm

Ratio of SAR at M2 to SAR at M1 = 58.1%

Maximum value of SAR (measured) = 5.36 W/kg



Date/Time: 2023-10-14 00:41:58

Test Laboratory : SGS Korea (Gunpo Laboratory)
File Name: [Verification 1750MHz_2023-10-14_da530](#)

Input Power : 100mW

DUT: Dipole 1750 MHz D1750V2; Type: D1750V2; Serial: D1750V2 - SN:1116

Communication System: UID 0, CW (0); Frequency: 1750 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1750$ MHz; $\sigma = 1.356$ S/m; $\epsilon_r = 40.976$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3791; ConvF(7.6, 7.6, 7.6) @ 1750 MHz; Calibrated: 2023-05-23
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1503; Calibrated: 2023-08-28
- Phantom: ELI v5.0 1244; Type: QDOVA002AA; Serial: TP:1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Verification/Verification 1750MHz/Area Scan (61x61x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
Maximum value of SAR (interpolated) = 5.19 W/kg

Verification/Verification 1750MHz/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 72.78 V/m; Power Drift = -0.10 dB

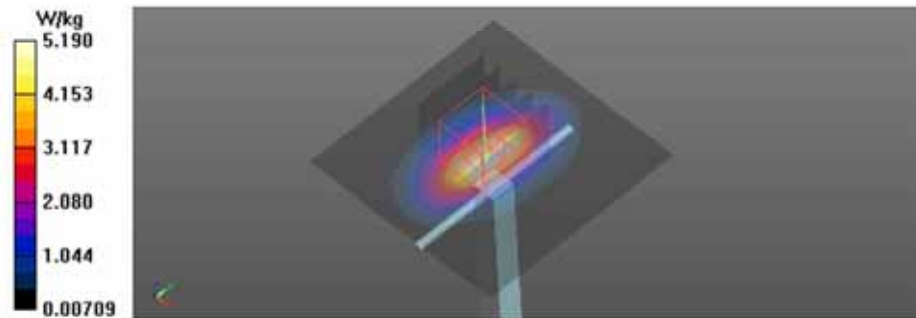
Peak SAR (extrapolated) = 6.49 W/kg

SAR(1 g) = 3.59 W/kg; SAR(10 g) = 1.95 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) = 5.45 W/kg



Date/Time: 2023-10-20 01:01:55

Test Laboratory : SGS Korea (Gunpo Laboratory)
File Name: [Verification 1750MHz_2023-10-20_da53.0](#)

Input Power : 100mW

DUT: Dipole 1750 MHz D1750V2; Type: D1750V2; Serial: D1750V2 - SN:1116

Communication System: UID 0, CW (0); Frequency: 1750 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1750$ MHz; $\sigma = 1.38$ S/m; $\epsilon_r = 38.566$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3791; ConvF(7.6, 7.6, 7.6) @ 1750 MHz; Calibrated: 2023-05-23
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1503; Calibrated: 2023-08-28
- Phantom: ELI v5.0 1244; Type: QDOVA002AA; Serial: TP:1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Verification/Verification 1750MHz/Area Scan (61x61x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
Maximum value of SAR (interpolated) = 5.44 W/kg

Verification/Verification 1750MHz/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 63.66 V/m; Power Drift = 0.15 dB

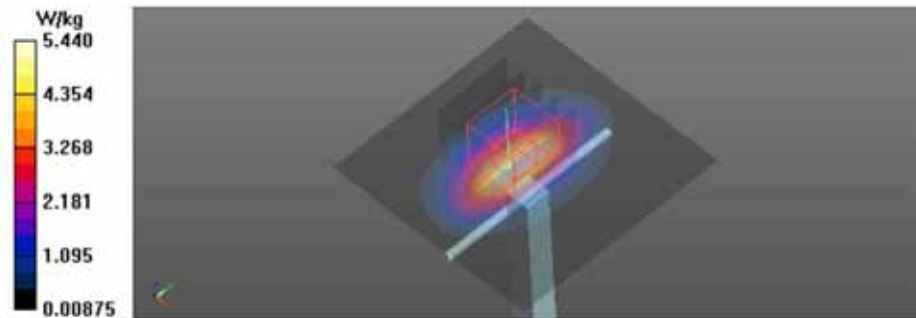
Peak SAR (extrapolated) = 6.32 W/kg

SAR(1 g) = 3.63 W/kg; SAR(10 g) = 2 W/kg

Smallest distance from peaks to all points 3 dB below = 10.7 mm

Ratio of SAR at M2 to SAR at M1 = 57.6%

Maximum value of SAR (measured) = 5.40 W/kg



Appendix A.4 Verification Plots for Verification 1900MHz

Date/Time: 2023-10-05 00:22:09

Test Laboratory : SGS Korea (Gunpo Laboratory)
File Name: [Verification 1900MHz_2023-10-05_da53.0](#)

Input Power : 100mW

DUT: Dipole 1900 MHz D1900V2; Type: D1900V2; Serial: D1900V2 - SN:5d158

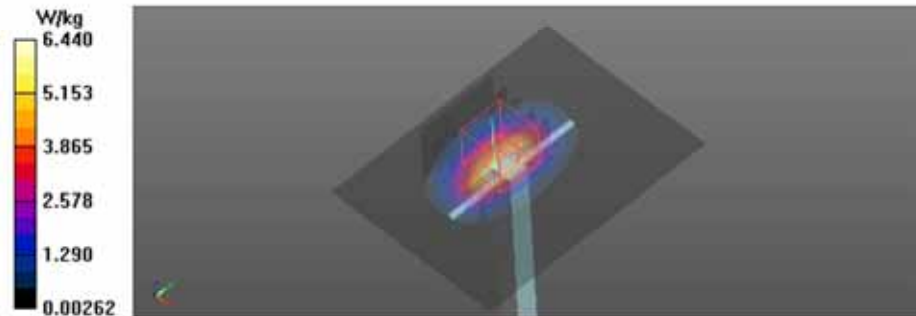
Communication System: UID 0, CW (0); Frequency: 1900 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1900$ MHz; $\sigma = 1.456$ S/m; $\epsilon_r = 41.007$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3791; ConvF(7.41, 7.41, 7.41) @ 1900 MHz; Calibrated: 2023-05-23
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1503; Calibrated: 2023-08-28
- Phantom: ELI v5.0 1244; Type: QDOVA002AA; Serial: TP:1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Verification/Verification 1900MHz/Area Scan (61x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 6.44 W/kg

Verification/Verification 1900MHz/Zoom Scan (5x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 65.65 V/m; Power Drift = 0.17 dB
Peak SAR (extrapolated) = 7.31 W/kg
SAR(1 g) = 4.05 W/kg; SAR(10 g) = 2.18 W/kg
Smallest distance from peaks to all points 3 dB below = 10.1 mm
Ratio of SAR at M2 to SAR at M1 = 55.7%
Maximum value of SAR (measured) = 6.12 W/kg



Date/Time: 2023-10-06 02:22:51

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: [Verification 1900MHz_2023-10-06_da530](#)

Input Power : 100mW

DUT: Dipole 1900 MHz D1900V2; Type: D1900V2; Serial: D1900V2 - SN:5d158

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

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.395$ S/m; $\epsilon_r = 40.847$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3791; ConvF(7.41, 7.41, 7.41) @ 1900 MHz; Calibrated: 2023-05-23
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1503; Calibrated: 2023-08-28
- Phantom: ELI v5.0 1244; Type: QDOVA002AA; Serial: TP:1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Verification/Verification 1900MHz/Area Scan (61x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 6.64 W/kg

Verification/Verification 1900MHz/Zoom Scan (5x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 69.09 V/m; Power Drift = 0.05 dB

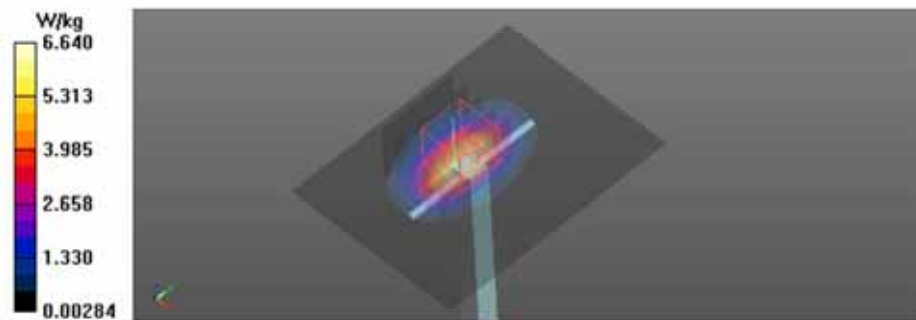
Peak SAR (extrapolated) = 7.07 W/kg

SAR(1 g) = 3.92 W/kg; SAR(10 g) = 2.11 W/kg

Smallest distance from peaks to all points 3 dB below = 10.7 mm

Ratio of SAR at M2 to SAR at M1 = 55.7%

Maximum value of SAR (measured) = 5.90 W/kg



Date/Time: 2023-10-12 01:13:19

Test Laboratory : SGS Korea (Gunpo Laboratory)
File Name: [Verification 1900MHz_2023-10-12_da53:0](#)

Input Power : 100mW

DUT: Dipole 1900 MHz D1900V2; Type: D1900V2; Serial: D1900V2 - SN:5d158

Communication System: UID 0, CW (0); Frequency: 1900 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1900$ MHz; $\sigma = 1.4$ S/m; $\epsilon_r = 41.266$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3791; ConvF(7.41, 7.41, 7.41) @ 1900 MHz; Calibrated: 2023-05-23
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1503; Calibrated: 2023-08-28
- Phantom: ELI v5.0 1244; Type: QDOVA002AA; Serial: TP:1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Verification/Verification 1900MHz/Area Scan (61x81x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
Maximum value of SAR (interpolated) = 6.32 W/kg

Verification/Verification 1900MHz/Zoom Scan (5x6x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 67.66 V/m; Power Drift = 0.14 dB

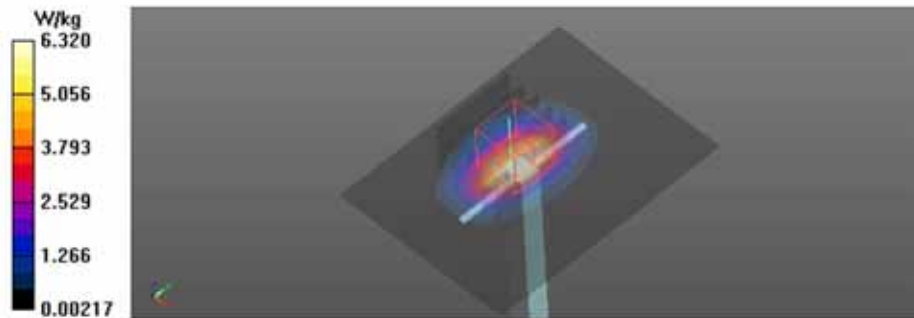
Peak SAR (extrapolated) = 7.15 W/kg

SAR(1 g) = 3.97 W/kg; SAR(10 g) = 2.14 W/kg

Smallest distance from peaks to all points 3 dB below = 10.7 mm

Ratio of SAR at M2 to SAR at M1 = 55.7%

Maximum value of SAR (measured) = 6.04 W/kg



Appendix A.5 Verification Plots for Verification 2600MHz

Date/Time: 2023-10-06 00:31:39

Test Laboratory : SGS Korea (Gunpo Laboratory)
File Name: [Verification 2600MHz_2023-10-06_da53.0](#)

Input Power : 100 mW

DUT: Dipole 2600 MHz D2600V2; Type: D2600V2; Serial: D2600V2 - SN:1038

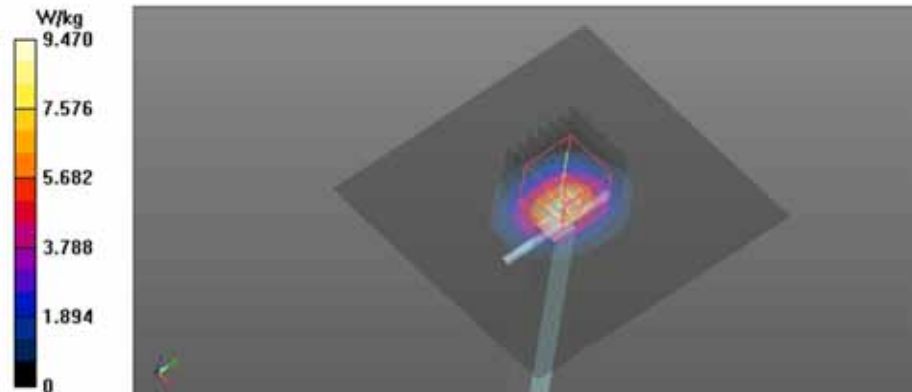
Communication System: UID 0, CW (0); Frequency: 2600 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 2600$ MHz; $\sigma = 2.028$ S/m; $\epsilon_r = 39.507$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN7574; ConvF(7.11, 7.11, 7.11) @ 2600 MHz; Calibrated: 2023-07-18
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1430; Calibrated: 2023-03-22
- Phantom: ELI v5.0 1169; Type: QDOVA002AA; Serial: TP:1169
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Verification/2600MHz Verification/Area Scan (91x101x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 9.47 W/kg

Verification/2600MHz Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 70.31 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 12.2 W/kg
SAR(1 g) = 5.58 W/kg; SAR(10 g) = 2.46 W/kg
Smallest distance from peaks to all points 3 dB below = 9 mm
Ratio of SAR at M2 to SAR at M1 = 45.3%
Maximum value of SAR (measured) = 9.68 W/kg



Date/Time: 2023-10-14 00:20:35

Test Laboratory : SGS Korea (Gunpo Laboratory)
 File Name: [Verification 2600MHz 2023-10-14 da530](#)

Input Power : 100 mW

DUT: Dipole 2600 MHz D2600V2; Type: D2600V2; Serial: D2600V2 - SN:1038

Communication System: UID 0, CW (0); Frequency: 2600 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 2600$ MHz; $\sigma = 2.029$ S/m; $\epsilon_r = 37.132$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN7574; ConvF(7.11, 7.11, 7.11) @ 2600 MHz; Calibrated: 2023-07-18
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1430; Calibrated: 2023-03-22
- Phantom: ELI v5.0 1169; Type: QDOVA002AA; Serial: TP:1169
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Verification/2600MHz Verification/Area Scan (91x101x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm
 Maximum value of SAR (interpolated) = 10.0 W/kg

Verification/2600MHz Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 72.25 V/m; Power Drift = -0.10 dB

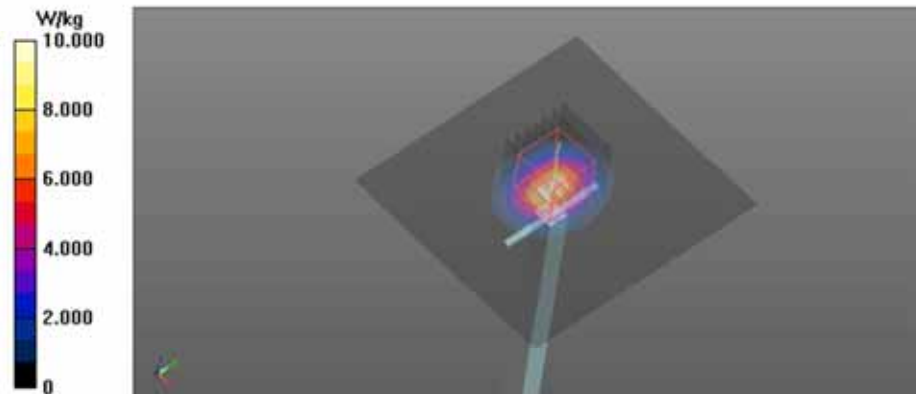
Peak SAR (extrapolated) = 12.6 W/kg

SAR(1 g) = 5.49 W/kg; SAR(10 g) = 2.36 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 42.6%

Maximum value of SAR (measured) = 9.84 W/kg



Date/Time: 2023-10-16 00:05:27

Test Laboratory : SGS Korea (Gunpo Laboratory)
File Name: [Verification 2600MHz 2023-10-16 da530](#)

Input Power : 100 mW

DUT: Dipole 2600 MHz D2600V2; Type: D2600V2; Serial: D2600V2 - SN:1038

Communication System: UID 0, CW (0); Frequency: 2600 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 2600$ MHz; $\sigma = 1.99$ S/m; $\epsilon_r = 40.471$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN7574; ConvF(7.11, 7.11, 7.11) @ 2600 MHz; Calibrated: 2023-07-18
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1430; Calibrated: 2023-03-22
- Phantom: ELI v5.0 1169; Type: QDOVA002AA; Serial: TP:1169
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Verification/2600MHz Verification/Area Scan (91x101x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm
Maximum value of SAR (interpolated) = 10.5 W/kg

Verification/2600MHz Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 75.55 V/m; Power Drift = 0.04 dB

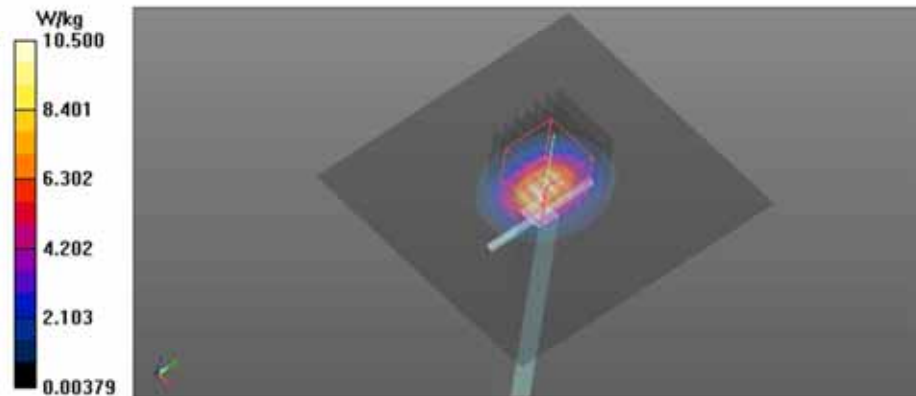
Peak SAR (extrapolated) = 12.2 W/kg

SAR(1 g) = 5.84 W/kg; SAR(10 g) = 2.65 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 48.2%

Maximum value of SAR (measured) = 9.88 W/kg



Date/Time: 2023-10-20 00:19:22

Test Laboratory : SGS Korea (Gunpo Laboratory)
File Name: [Verification 2600MHz_2023-10-20_da530](#)

Input Power : 100 mW

DUT: Dipole 2600 MHz D2600V2; Type: D2600V2; Serial: D2600V2 - SN:1038

Communication System: UID 0, CW (0); Frequency: 2600 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 2600$ MHz; $\sigma = 1.937$ S/m; $\epsilon_r = 39.887$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3986; ConvF(8.01, 8.01, 8.01) @ 2600 MHz; Calibrated: 2023-01-26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1504; Calibrated: 2023-01-23
- Phantom: ELI V8.0 (20deg probe tilt); Type: QD OVA 004 Ax; Serial: 1200
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Verification/Verification 2600MHz/Area Scan (61x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 10.0 W/kg

Verification/Verification 2600MHz/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 74.46 V/m; Power Drift = 0.11 dB

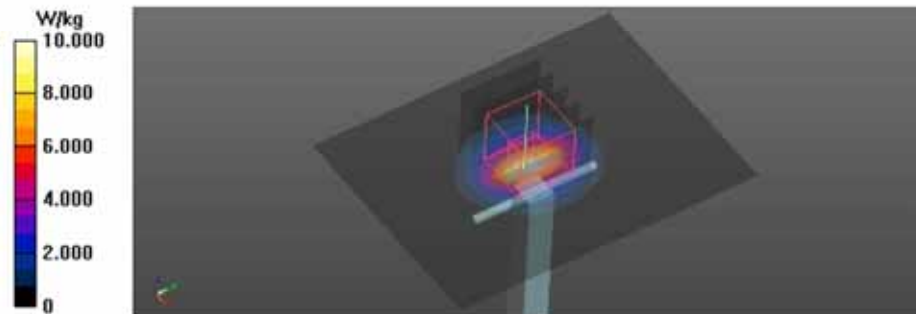
Peak SAR (extrapolated) = 12.5 W/kg

SAR(1 g) = 5.54 W/kg; SAR(10 g) = 2.43 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 44%

Maximum value of SAR (measured) = 9.70 W/kg



Date/Time: 2023-10-23 00:04:16

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: [Verification 2600MHz_2023-10-23_da530](#)

Input Power : 100 mW

DUT: Dipole 2600 MHz D2600V2; Type: D2600V2; Serial: D2600V2 - SN:1038

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

Medium parameters used: $f = 2600$ MHz; $\sigma = 1.955$ S/m; $\epsilon_r = 40.548$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3986; ConvF(8.01, 8.01, 8.01) @ 2600 MHz; Calibrated: 2023-01-26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1504; Calibrated: 2023-01-23
- Phantom: ELI V8.0 (20deg probe tilt); Type: QD OVA 004 Ax; Serial: 1200
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Verification/Verification 2600MHz/Area Scan (61x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 10.7 W/kg

Verification/Verification 2600MHz/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 74.66 V/m; Power Drift = -0.04 dB

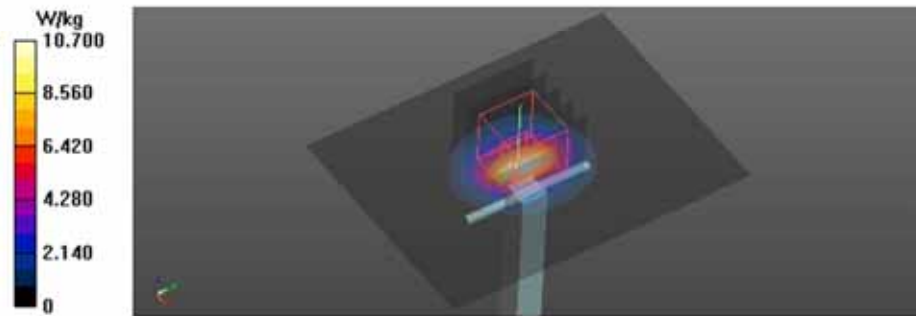
Peak SAR (extrapolated) = 13.1 W/kg

SAR(1 g) = 5.83 W/kg; SAR(10 g) = 2.56 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 44.1%

Maximum value of SAR (measured) = 10.2 W/kg



Date/Time: 2023-10-25 00:26:19

Test Laboratory : SGS Korea (Gunpo Laboratory)
File Name: [Verification 2600MHz_2023-10-25_da530](#)

Input Power : 100 mW

DUT: Dipole 2600 MHz D2600V2; Type: D2600V2; Serial: D2600V2 - SN:1038

Communication System: UID 0, CW (0); Frequency: 2600 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 2600$ MHz; $\sigma = 2.006$ S/m; $\epsilon_r = 38.364$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3986; ConvF(8.01, 8.01, 8.01) @ 2600 MHz; Calibrated: 2023-01-26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1504; Calibrated: 2023-01-23
- Phantom: ELI V8.0 (20deg probe tilt); Type: QD OVA 004 Ax; Serial: 1200
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Verification/Verification 2600MHz/Area Scan (61x81x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
Maximum value of SAR (interpolated) = 10.4 W/kg

Verification/Verification 2600MHz/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 76.19 V/m; Power Drift = 0.01 dB

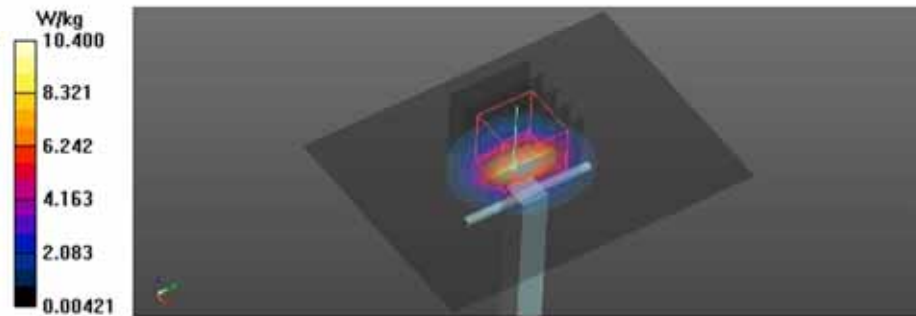
Peak SAR (extrapolated) = 12.5 W/kg

SAR(1 g) = 5.61 W/kg; SAR(10 g) = 2.47 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 44.3%

Maximum value of SAR (measured) = 9.57 W/kg



Appendix A.6 Verification Plots for Verification 3500MHz

Date/Time: 2023-10-18 00:10:25

Test Laboratory : SGS Korea (Gunpo Laboratory)
File Name: [Verification 3500MHz_2023-10-18_da53.0](#)

Input Power : 100 mW

DUT: Dipole 3500 MHz D3500V2; Type: D3500V2; Serial: D3500V2 - SN:1058

Communication System: UID 0, CW (0); Frequency: 3500 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 3500$ MHz; $\sigma = 2.849$ S/m; $\epsilon_r = 38.346$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN7574; ConvF(6.61, 6.61, 6.61) @ 3500 MHz; Calibrated: 2023-07-18
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1430; Calibrated: 2023-03-22
- Phantom: ELI v5.0 1169; Type: QDOVA002AA; Serial: TP:1169
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Verification/3500MHz Verification/Area Scan (61x61x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 12.6 W/kg

Verification/3500MHz Verification/Zoom Scan (9x9x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 68.33 V/m; Power Drift = -0.03 dB

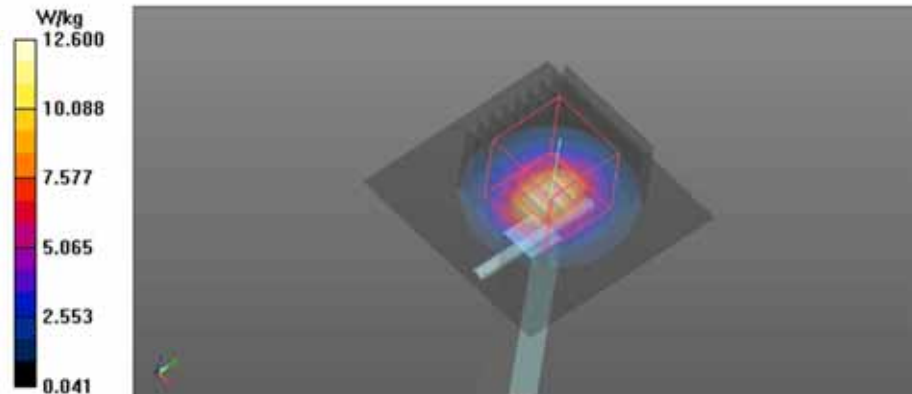
Peak SAR (extrapolated) = 16.4 W/kg

SAR(1 g) = 6.54 W/kg; SAR(10 g) = 2.56 W/kg

Smallest distance from peaks to all points 3 dB below = 8.8 mm

Ratio of SAR at M2 to SAR at M1 = 76.3%

Maximum value of SAR (measured) = 12.4 W/kg



Date/Time: 2023-10-19 00:10:43

Test Laboratory : SGS Korea (Gunpo Laboratory)
 File Name: [Verification 3500MHz 2023-10-19 da530](#)

Input Power : 100 mW

DUT: Dipole 3500 MHz D3500V2; Type: D3500V2; Serial: D3500V2 - SN:1058

Communication System: UID 0, CW (0); Frequency: 3500 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 3500$ MHz; $\sigma = 2.933$ S/m; $\epsilon_r = 39.632$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN7574; ConvF(6.61, 6.61, 6.61) @ 3500 MHz; Calibrated: 2023-07-18
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1430; Calibrated: 2023-03-22
- Phantom: ELI v5.0 1169; Type: QDOVA002AA; Serial: TP:1169
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Verification/3500MHz Verification/Area Scan (61x61x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
 Maximum value of SAR (interpolated) = 13.0 W/kg

Verification/3500MHz Verification/Zoom Scan (9x9x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 68.41 V/m; Power Drift = -0.02 dB

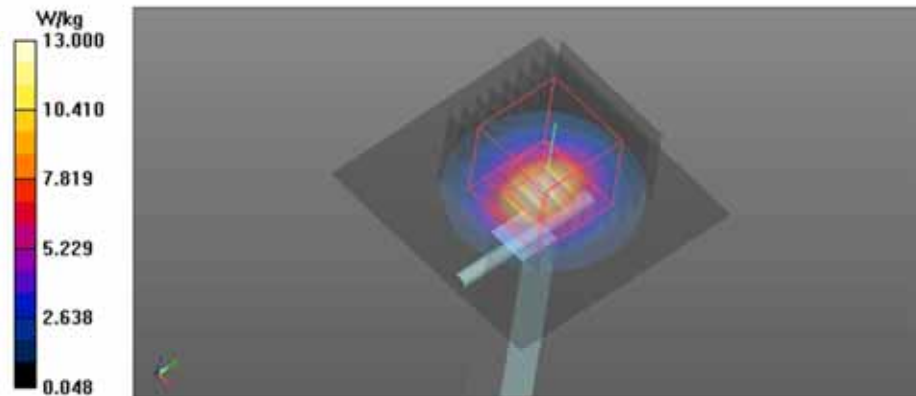
Peak SAR (extrapolated) = 16.8 W/kg

SAR(1 g) = 6.7 W/kg; SAR(10 g) = 2.63 W/kg

Smallest distance from peaks to all points 3 dB below = 8.8 mm

Ratio of SAR at M2 to SAR at M1 = 76.4%

Maximum value of SAR (measured) = 12.7 W/kg



Date/Time: 2023-10-21 00:10:49

Test Laboratory : SGS Korea (Gunpo Laboratory)
File Name: [Verification 3500MHz 2023-10-21 da530](#)

Input Power : 100 mW

DUT: Dipole 3500 MHz D3500V2; Type: D3500V2; Serial: D3500V2 - SN:1058

Communication System: UID 0, CW (0); Frequency: 3500 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 3500$ MHz; $\sigma = 2.988$ S/m; $\epsilon_r = 37.875$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN7574; ConvF(6.61, 6.61, 6.61) @ 3500 MHz; Calibrated: 2023-07-18
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1430; Calibrated: 2023-03-22
- Phantom: ELI v5.0 1169; Type: QDOVA002AA; Serial: TP:1169
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Verification/3500MHz Verification/Area Scan (61x61x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 13.1 W/kg

Verification/3500MHz Verification/Zoom Scan (9x9x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 67.96 V/m; Power Drift = -0.02 dB

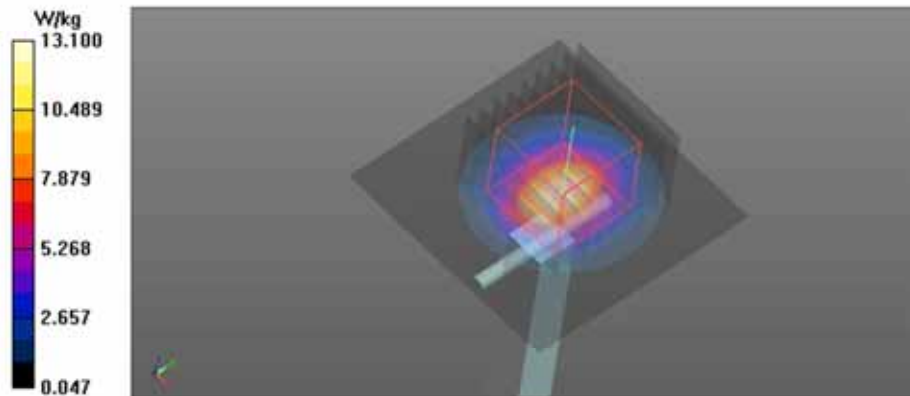
Peak SAR (extrapolated) = 16.9 W/kg

SAR(1 g) = 6.74 W/kg; SAR(10 g) = 2.64 W/kg

Smallest distance from peaks to all points 3 dB below = 8.8 mm

Ratio of SAR at M2 to SAR at M1 = 76.4%

Maximum value of SAR (measured) = 12.8 W/kg



Date/Time: 2023-10-22 00:07:38

Test Laboratory : SGS Korea (Gunpo Laboratory)
File Name: [Verification 3500MHz 2023-10-22 da530](#)

Input Power : 100 mW

DUT: Dipole 3500 MHz D3500V2; Type: D3500V2; Serial: D3500V2 - SN:1058

Communication System: UID 0, CW (0); Frequency: 3500 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 3500$ MHz; $\sigma = 2.938$ S/m; $\epsilon_r = 37.539$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN7574; ConvF(6.61, 6.61, 6.61) @ 3500 MHz; Calibrated: 2023-07-18
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1430; Calibrated: 2023-03-22
- Phantom: ELI v5.0 1169; Type: QDOVA002AA; Serial: TP:1169
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Verification/3500MHz Verification/Area Scan (61x61x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 12.4 W/kg

Verification/3500MHz Verification/Zoom Scan (9x9x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 66.46 V/m; Power Drift = -0.03 dB

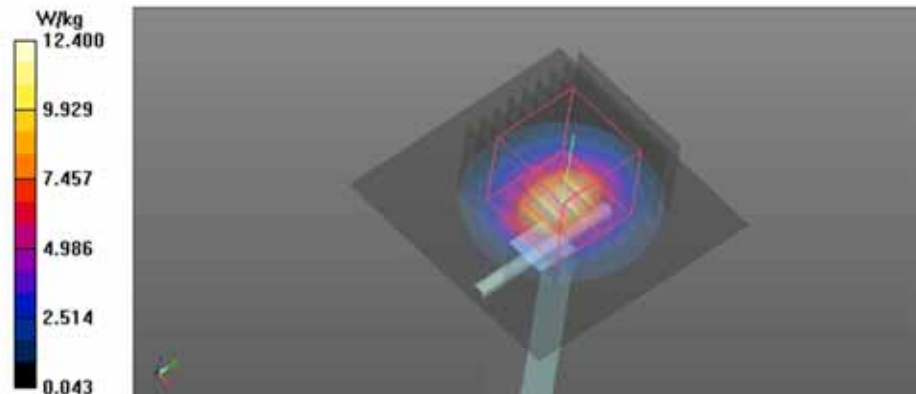
Peak SAR (extrapolated) = 16.0 W/kg

SAR(1 g) = 6.36 W/kg; SAR(10 g) = 2.5 W/kg

Smallest distance from peaks to all points 3 dB below = 8.8 mm

Ratio of SAR at M2 to SAR at M1 = 76.4%

Maximum value of SAR (measured) = 12.1 W/kg



Appendix A.7 Verification Plots for Verification 3900MHz

Date/Time: 2023-10-18 00:49:29

Test Laboratory : SGS Korea (Gunpo Laboratory)
File Name: [Verification 3900MHz_2023-10-18_da53.0](#)

Input Power : 100 mW

DUT: Dipole 3900 MHz D3900V2; Type: D3900V2; Serial: D3900V2 - SN:1036

Communication System: UID 0, CW (0); Frequency: 3900 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 3900$ MHz; $\sigma = 3.28$ S/m; $\epsilon_r = 37.76$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN7574; ConvF(6.39, 6.39, 6.39) @ 3900 MHz; Calibrated: 2023-07-18
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1430; Calibrated: 2023-03-22
- Phantom: ELI v5.0 1169; Type: QDOVA002AA; Serial: TP:1169
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Verification/3900MHz Verification/Area Scan (81x81x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 13.5 W/kg

Verification/3900MHz Verification/Zoom Scan (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 69.52 V/m; Power Drift = -0.05 dB

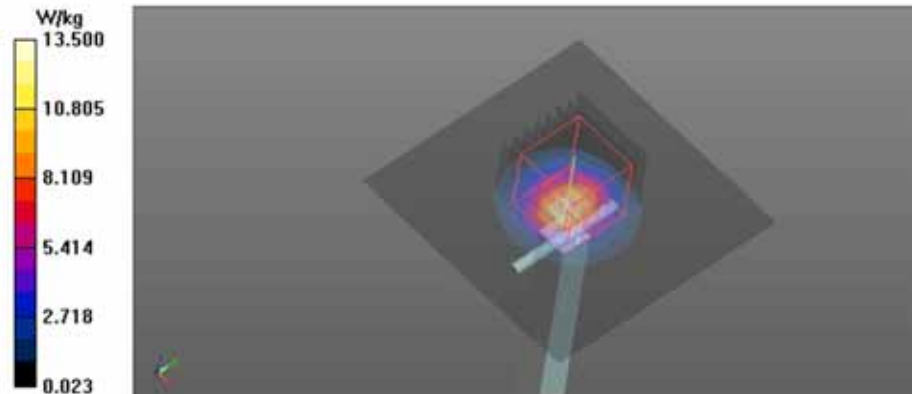
Peak SAR (extrapolated) = 17.5 W/kg

SAR(1 g) = 6.78 W/kg; SAR(10 g) = 2.44 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 76.5%

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



Date/Time: 2023-10-20 00:11:02

Test Laboratory : SGS Korea (Gunpo Laboratory)
 File Name: [Verification 3900MHz_2023-10-20_da530](#)

Input Power : 100 mW

DUT: Dipole 3900 MHz D3900V2; Type: D3900V2; Serial: D3900V2 - SN:1036

Communication System: UID 0, CW (0); Frequency: 3900 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 3900$ MHz; $\sigma = 3.314$ S/m; $\epsilon_r = 38.356$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN7574; ConvF(6.39, 6.39, 6.39) @ 3900 MHz; Calibrated: 2023-07-18
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1430; Calibrated: 2023-03-22
- Phantom: ELI v5.0 1169; Type: QDOVA002AA; Serial: TP:1169
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Verification/3900MHz Verification/Area Scan (81x81x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
 Maximum value of SAR (interpolated) = 13.4 W/kg

Verification/3900MHz Verification/Zoom Scan (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 69.08 V/m; Power Drift = -0.04 dB

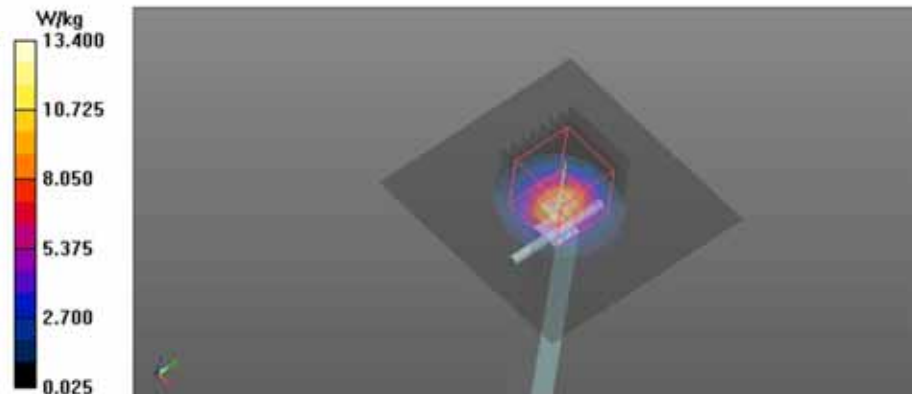
Peak SAR (extrapolated) = 17.3 W/kg

SAR(1 g) = 6.71 W/kg; SAR(10 g) = 2.42 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 76.6%

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



Date/Time: 2023-10-21 00:51:47

Test Laboratory : SGS Korea (Gunpo Laboratory)
File Name: [Verification 3900MHz 2023-10-21 da530](#)

Input Power : 100 mW

DUT: Dipole 3900 MHz D3900V2; Type: D3900V2; Serial: D3900V2 - SN:1036

Communication System: UID 0, CW (0); Frequency: 3900 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 3900$ MHz; $\sigma = 3.314$ S/m; $\epsilon_r = 36.828$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN7574; ConvF(6.39, 6.39, 6.39) @ 3900 MHz; Calibrated: 2023-07-18
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1430; Calibrated: 2023-03-22
- Phantom: ELI v5.0 1169; Type: QDOVA002AA; Serial: TP:1169
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Verification/3900MHz Verification/Area Scan (81x81x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 14.2 W/kg

Verification/3900MHz Verification/Zoom Scan (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 70.83 V/m; Power Drift = -0.06 dB

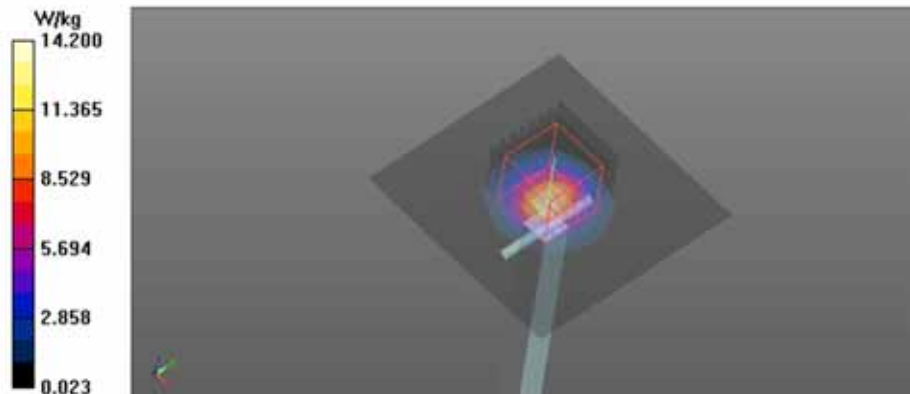
Peak SAR (extrapolated) = 17.3 W/kg

SAR(1 g) = 6.68 W/kg; SAR(10 g) = 2.41 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 76.4%

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



Date/Time: 2023-10-23 00:52:40

Test Laboratory : SGS Korea (Gunpo Laboratory)
 File Name: [Verification 3900MHz 2023-10-23_da530](#)

Input Power : 100 mW

DUT: Dipole 3900 MHz D3900V2; Type: D3900V2; Serial: D3900V2 - SN:1036

Communication System: UID 0, CW (0); Frequency: 3900 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 3900 \text{ MHz}$; $\sigma = 3.283 \text{ S/m}$; $\epsilon_r = 36.592$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN7574; ConvF(6.39, 6.39, 6.39) @ 3900 MHz; Calibrated: 2023-07-18
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1430; Calibrated: 2023-03-22
- Phantom: ELI v5.0 1169; Type: QDOVA002AA; Serial: TP:1169
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Verification/3900MHz Verification/Area Scan (81x81x1): Interpolated grid: $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$
 Maximum value of SAR (interpolated) = 13.3 W/kg

Verification/3900MHz Verification/Zoom Scan (8x8x7)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=1.4\text{mm}$

Reference Value = 69.12 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 17.3 W/kg

SAR(1 g) = 6.66 W/kg; SAR(10 g) = 2.4 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 76.3%

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

