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

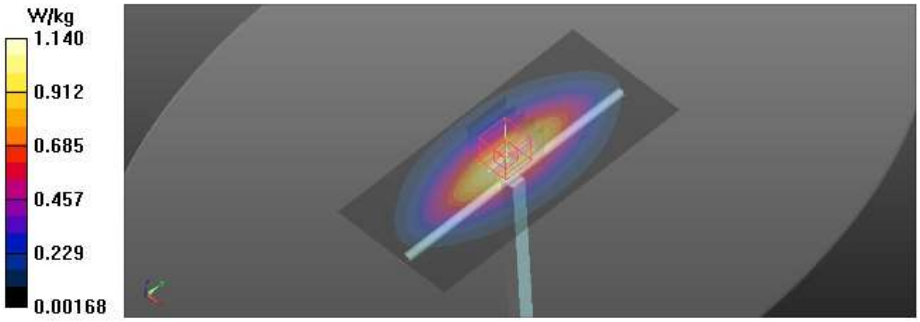
DUT: Dipole 750 MHz D750V3; Type: D750V3; Serial: D750V3 - SN:1085

Communication System: UID 0, CW (0); Frequency: 750 MHz;Duty Cycle: 1:1
Medium parameters used: f = 750 MHz; σ = 0.927 S/m; ε_r = 40.469; ρ = 1000 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 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.14 W/kg

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

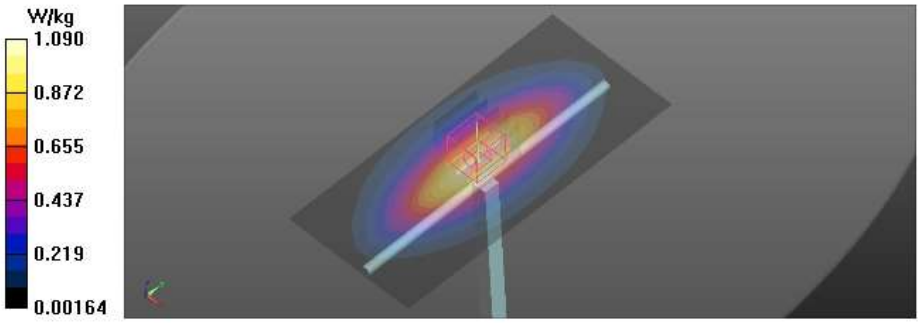
DUT: Dipole 750 MHz D750V3; Type: D750V3; Serial: D750V3 - SN:1085

Communication System: UID 0, CW (0); Frequency: 750 MHz;Duty Cycle: 1:1
Medium parameters used: f = 750 MHz; σ = 0.92 S/m; ε_r = 41.361; ρ = 1000 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 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.09 W/kg

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

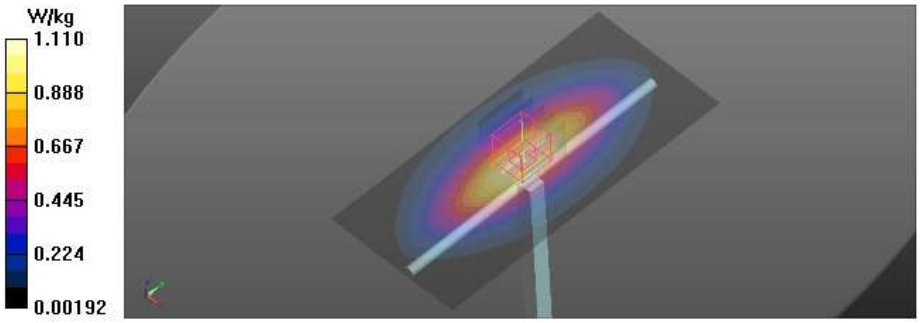
DUT: Dipole 750 MHz D750V3; Type: D750V3; Serial: D750V3 - SN:1085

Communication System: UID 0, CW (0); Frequency: 750 MHz;Duty Cycle: 1:1
Medium parameters used: f = 750 MHz; σ = 0.918 S/m; ε_r = 41.88; ρ = 1000 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 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.11 W/kg

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

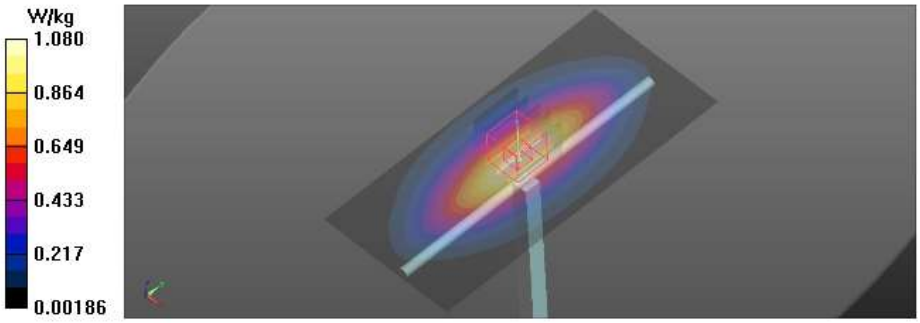
DUT: Dipole 750 MHz D750V3; Type: D750V3; Serial: D750V3 - SN:1085

Communication System: UID 0, CW (0); Frequency: 750 MHz;Duty Cycle: 1:1
Medium parameters used: f = 750 MHz; σ = 0.917 S/m; ε_r = 41.455; ρ = 1000 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 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.08 W/kg

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

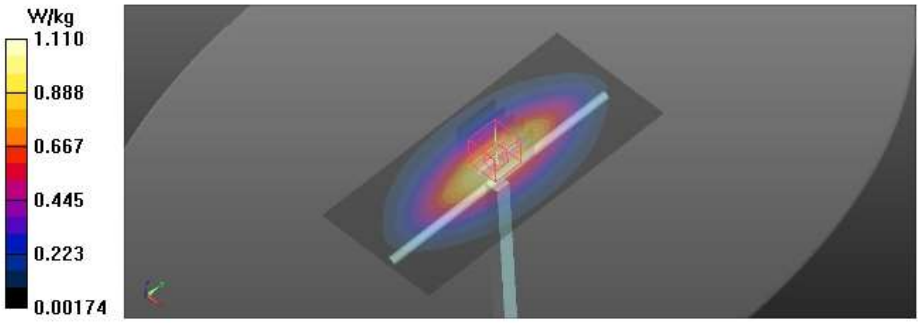
DUT: Dipole 750 MHz D750V3; Type: D750V3; Serial: D750V3 - SN:1085

Communication System: UID 0, CW (0); Frequency: 750 MHz;Duty Cycle: 1:1
Medium parameters used: f = 750 MHz; σ = 0.877 S/m; ε_r = 41.666; ρ = 1000 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 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.11 W/kg

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

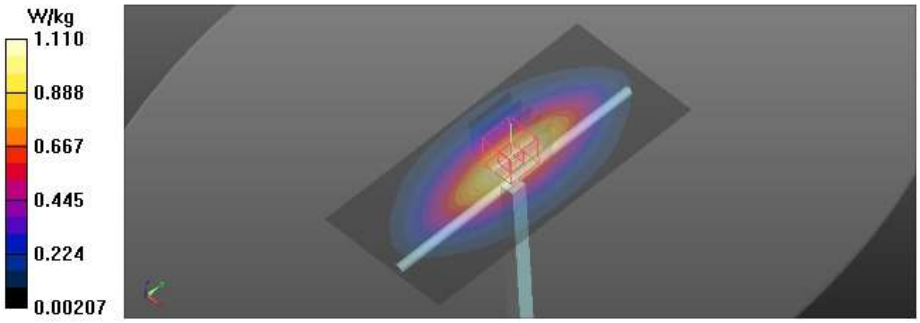
DUT: Dipole 750 MHz D750V3; Type: D750V3; Serial: D750V3 - SN:1085

Communication System: UID 0, CW (0); Frequency: 750 MHz;Duty Cycle: 1:1
Medium parameters used: f = 750 MHz; σ = 0.876 S/m; ε_r = 42.985; ρ = 1000 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 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.11 W/kg

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

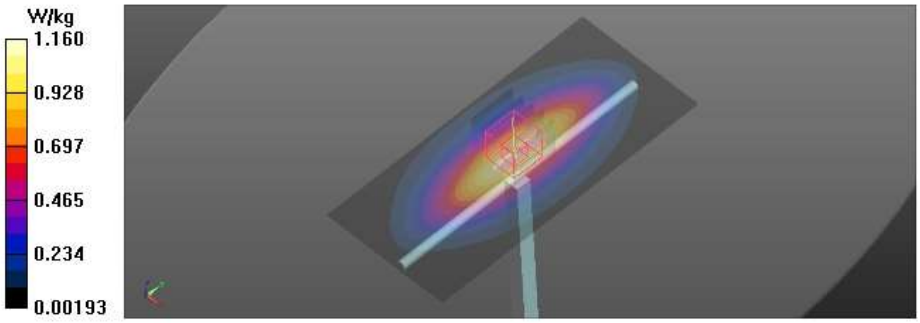
DUT: Dipole 750 MHz D750V3; Type: D750V3; Serial: D750V3 - SN:1085

Communication System: UID 0, CW (0); Frequency: 750 MHz;Duty Cycle: 1:1
Medium parameters used: f = 750 MHz; σ = 0.899 S/m; ε_r = 43.538; ρ = 1000 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 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.16 W/kg

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

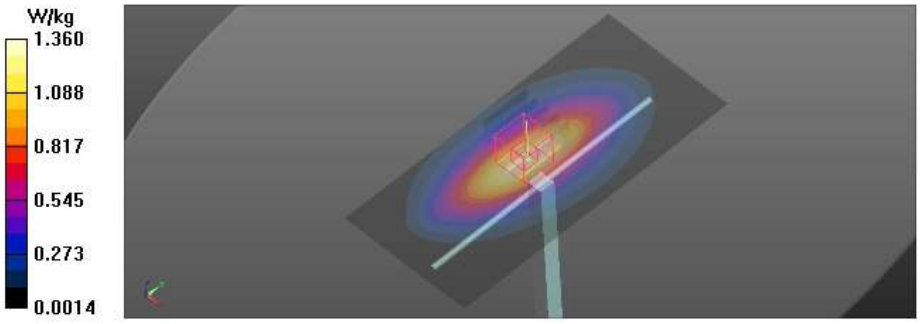
DUT: Dipole 835 MHz D835V2; Type: D835V2; Serial: D835V2 - SN:4d138

Communication System: UID 0, CW (0); Frequency: 835 MHz;Duty Cycle: 1:1
Medium parameters used: f = 835 MHz; σ = 0.911 S/m; ε_r = 41.386; ρ = 1000 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 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.36 W/kg

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

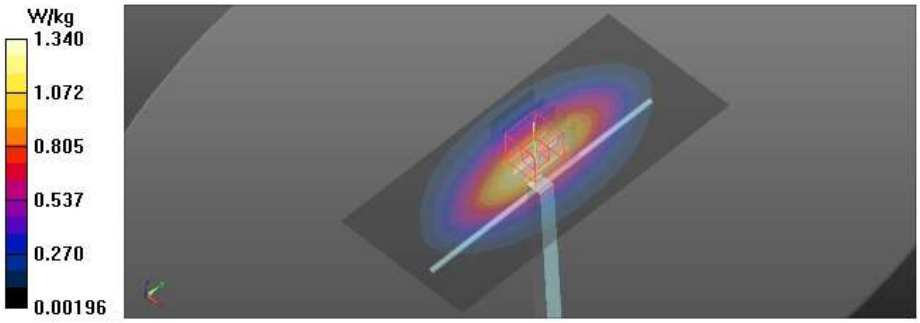
DUT: Dipole 835 MHz D835V2; Type: D835V2; Serial: D835V2 - SN:4d138

Communication System: UID 0, CW (0); Frequency: 835 MHz;Duty Cycle: 1:1
Medium parameters used: f = 835 MHz; σ = 0.935 S/m; ε_r = 40.446; ρ = 1000 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 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.34 W/kg

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

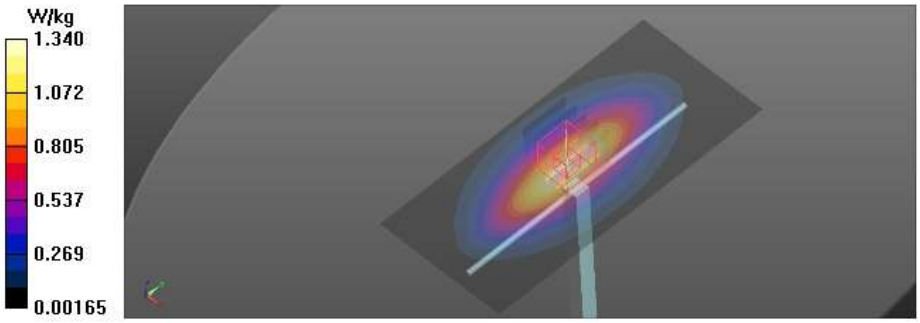
DUT: Dipole 835 MHz D835V2; Type: D835V2; Serial: D835V2 - SN:4d138

Communication System: UID 0, CW (0); Frequency: 835 MHz;Duty Cycle: 1:1
Medium parameters used: f = 835 MHz; σ = 0.883 S/m; ε_r = 43.435; ρ = 1000 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 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.34 W/kg

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

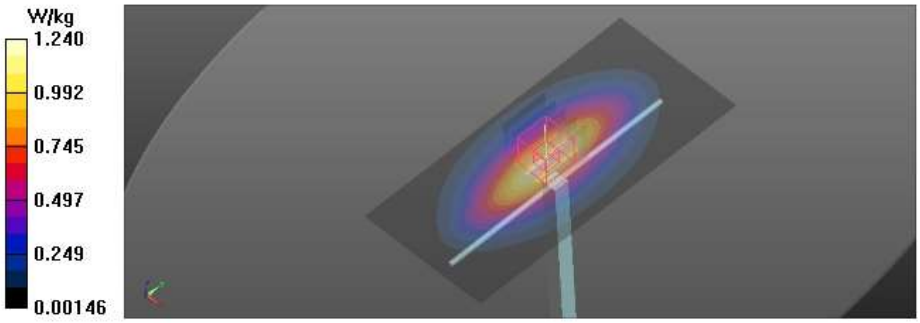
DUT: Dipole 835 MHz D835V2; Type: D835V2; Serial: D835V2 - SN:4d138

Communication System: UID 0, CW (0); Frequency: 835 MHz;Duty Cycle: 1:1
Medium parameters used: f = 835 MHz; σ = 0.879 S/m; ε_r = 41.803; ρ = 1000 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 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.24 W/kg

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



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

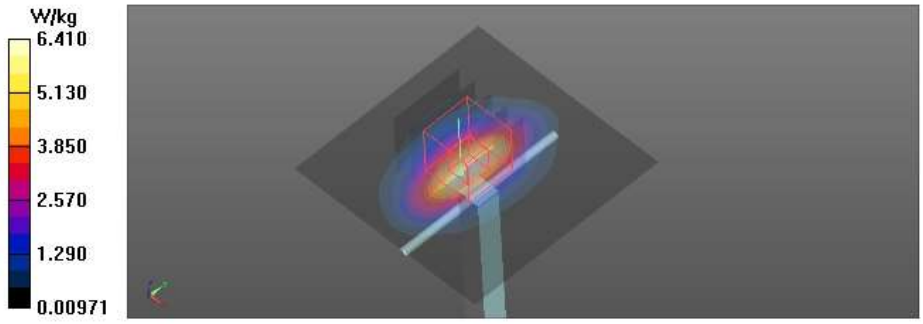
DUT: Dipole 1750 MHz D1750V2; Type: D1750V2; Serial: D1750V2 - SN:1116

Communication System: UID 0, CW (0); Frequency: 1750 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1750 MHz; σ = 1.393 S/m; ε_r = 39.648; ρ = 1000 kg/m^3
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

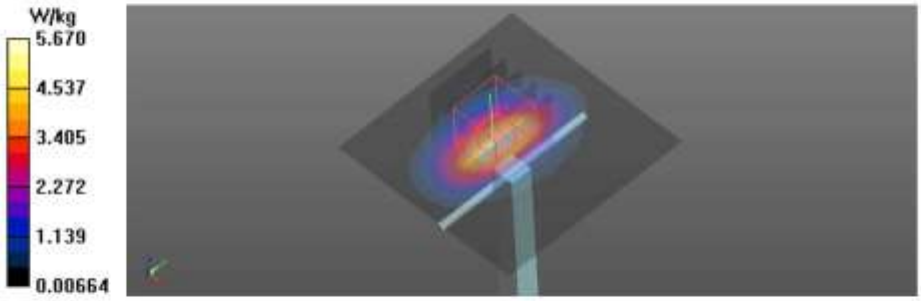
DUT: Dipole 1750 MHz D1750V2; Type: D1750V2; Serial: D1750V2 - SN:1116

Communication System: UID 0, CW (0); Frequency: 1750 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1750 MHz; σ = 1.402 S/m; ε_r = 41.25; ρ = 1000 kg/m^3
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.da53:0

Input Power : 100mW

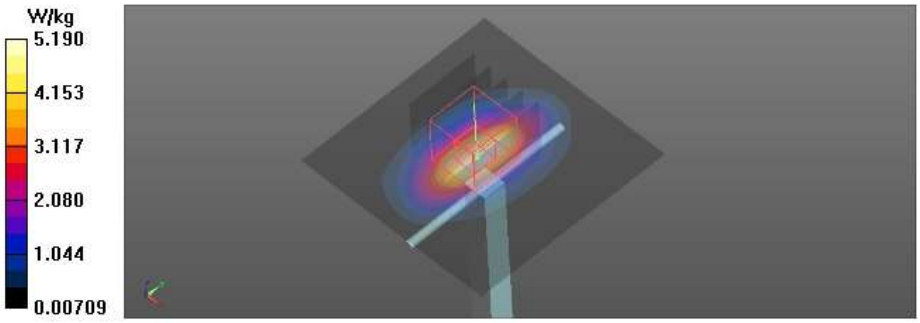
DUT: Dipole 1750 MHz D1750V2; Type: D1750V2; Serial: D1750V2 - SN:1116

Communication System: UID 0, CW (0); Frequency: 1750 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1750 MHz; σ = 1.356 S/m; ε_r = 40.976; ρ = 1000 kg/m^3
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=8mm, dy=8mm, dz=5mm
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

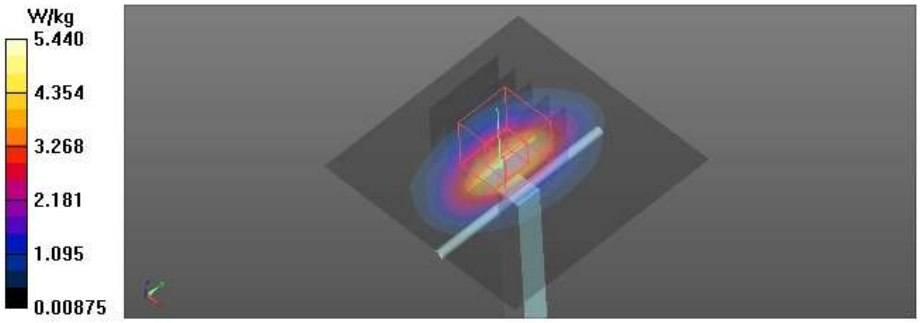
DUT: Dipole 1750 MHz D1750V2; Type: D1750V2; Serial: D1750V2 - SN:1116

Communication System: UID 0, CW (0); Frequency: 1750 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1750 MHz; σ = 1.38 S/m; ε_r = 38.566; ρ = 1000 kg/m^3
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=8mm, dy=8mm, dz=5mm
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

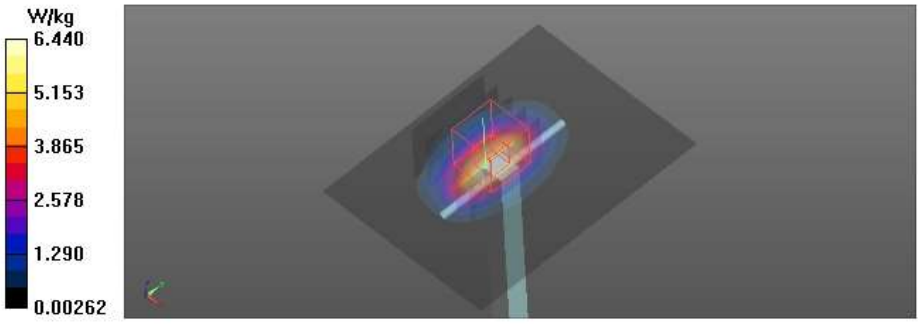
DUT: Dipole 1900 MHz D1900V2; Type: D1900V2; Serial: D1900V2 - SN:5d158

Communication System: UID 0, CW (0); Frequency: 1900 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1900 MHz; σ = 1.456 S/m; ε_r = 41.007; ρ = 1000 kg/m^3
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.da53:0

Input Power : 100mW

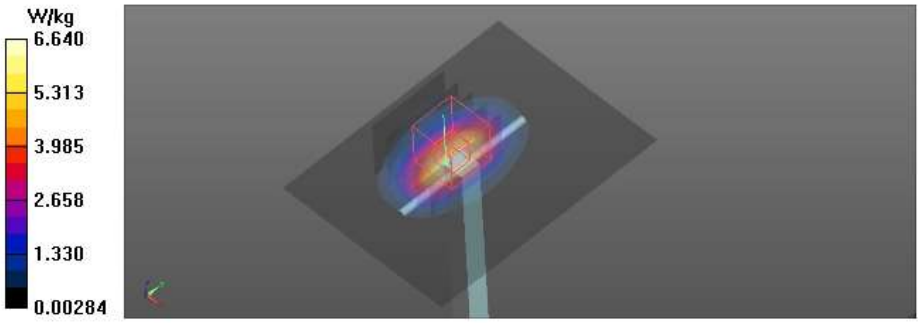
DUT: Dipole 1900 MHz D1900V2; Type: D1900V2; Serial: D1900V2 - SN:5d158

Communication System: UID 0, CW (0); Frequency: 1900 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1900 MHz; σ = 1.395 S/m; ε_r = 40.847; ρ = 1000 kg/m^3
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

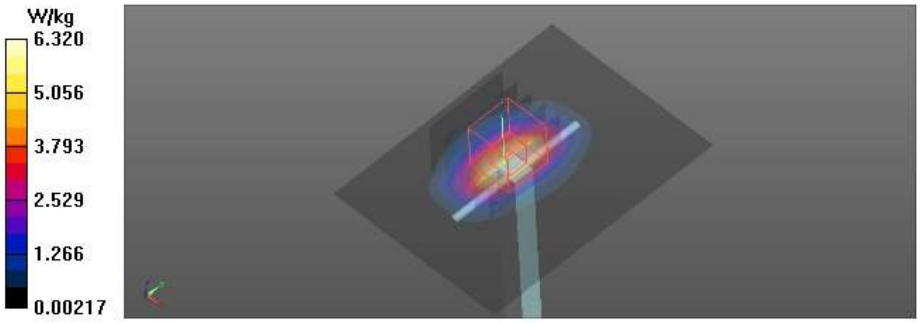
DUT: Dipole 1900 MHz D1900V2; Type: D1900V2; Serial: D1900V2 - SN:5d158

Communication System: UID 0, CW (0); Frequency: 1900 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1900 MHz; σ = 1.4 S/m; ε_r = 41.266; ρ = 1000 kg/m^3
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=8mm, dy=8mm, dz=5mm
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

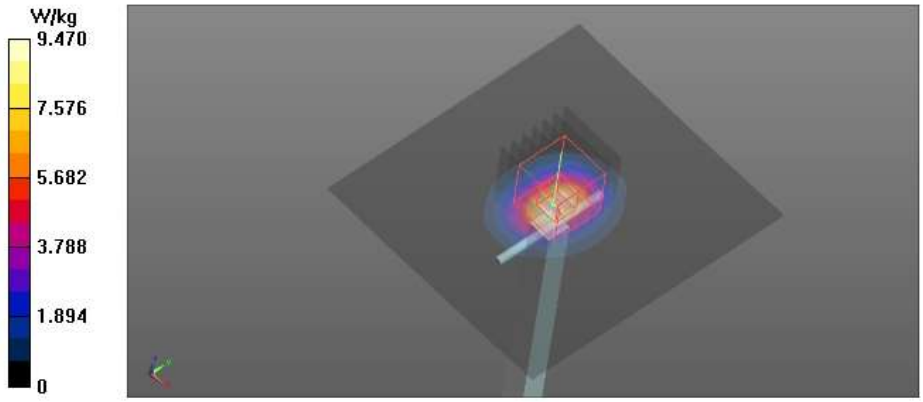
DUT: Dipole 2600 MHz D2600V2; Type: D2600V2; Serial: D2600V2 - SN:1038

Communication System: UID 0, CW (0); Frequency: 2600 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2600 MHz; σ = 2.028 S/m; ε_r = 39.507; ρ = 1000 kg/m^3
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.da53:0

Input Power : 100 mW

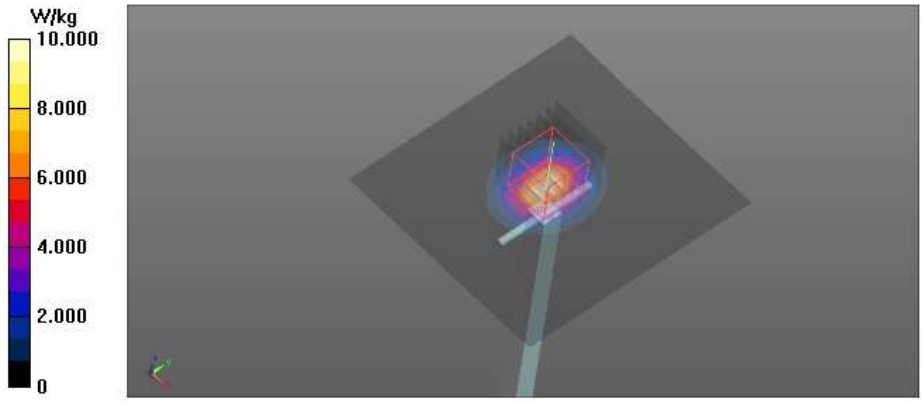
DUT: Dipole 2600 MHz D2600V2; Type: D2600V2; Serial: D2600V2 - SN:1038

Communication System: UID 0, CW (0); Frequency: 2600 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2600 MHz; σ = 2.029 S/m; ε_r = 37.132; ρ = 1000 kg/m^3
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=5mm, dy=5mm, dz=5mm
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.da53:0

Input Power : 100 mW

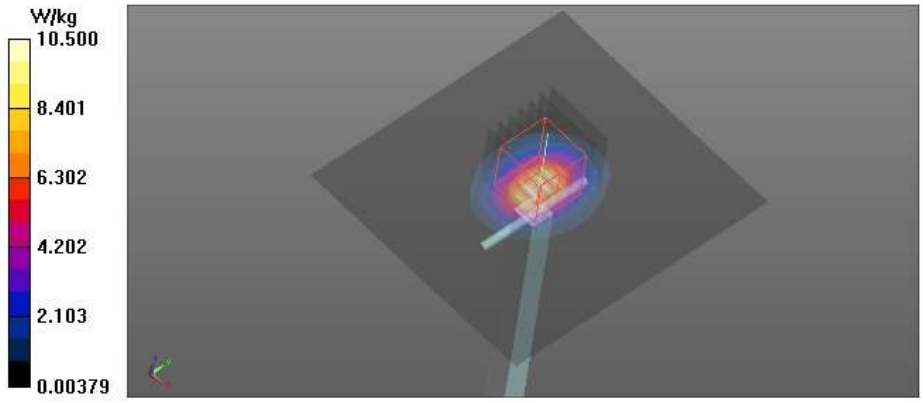
DUT: Dipole 2600 MHz D2600V2; Type: D2600V2; Serial: D2600V2 - SN:1038

Communication System: UID 0, CW (0); Frequency: 2600 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2600 MHz; σ = 1.99 S/m; ε_r = 40.471; ρ = 1000 kg/m^3
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=5mm, dy=5mm, dz=5mm
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.da53:0

Input Power : 100 mW

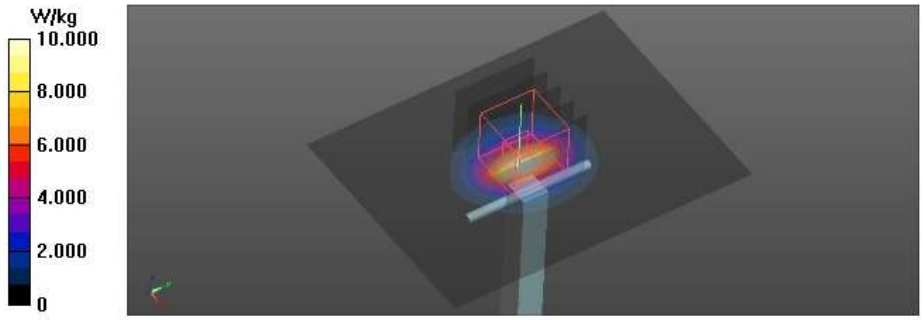
DUT: Dipole 2600 MHz D2600V2; Type: D2600V2; Serial: D2600V2 - SN:1038

Communication System: UID 0, CW (0); Frequency: 2600 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2600 MHz; σ = 1.937 S/m; ε_r = 39.887; ρ = 1000 kg/m^3
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.da53:0

Input Power : 100 mW

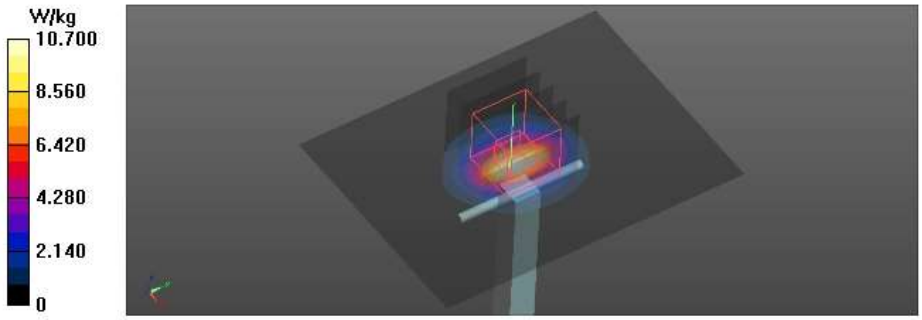
DUT: Dipole 2600 MHz D2600V2; Type: D2600V2; Serial: D2600V2 - SN:1038

Communication System: UID 0, CW (0); Frequency: 2600 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2600 MHz; σ = 1.955 S/m; ε_r = 40.548; ρ = 1000 kg/m^3
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.da53:0

Input Power : 100 mW

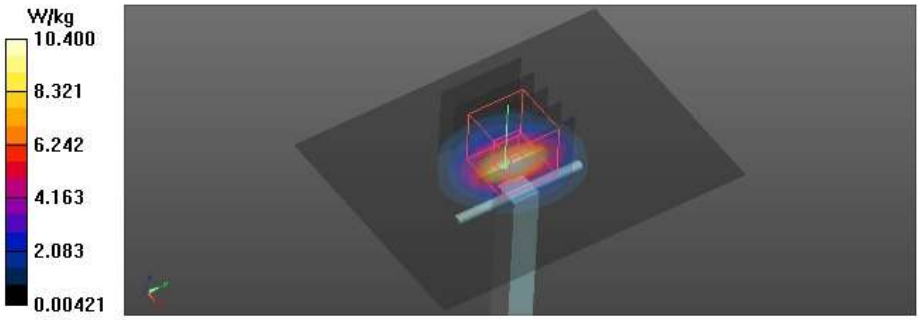
DUT: Dipole 2600 MHz D2600V2; Type: D2600V2; Serial: D2600V2 - SN:1038

Communication System: UID 0, CW (0); Frequency: 2600 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2600 MHz; σ = 2.006 S/m; ε_r = 38.364; ρ = 1000 kg/m^3
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=8mm, dy=8mm, dz=5mm
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

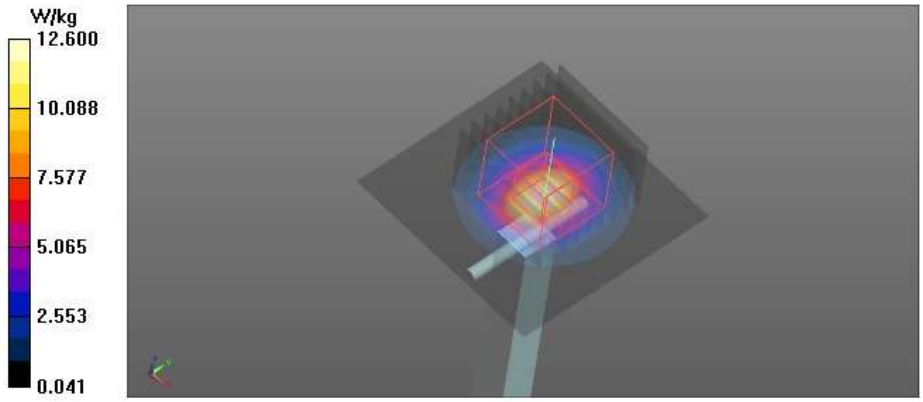
DUT: Dipole 3500 MHz D3500V2; Type: D3500V2; Serial: D3500V2 - SN:1058

Communication System: UID 0, CW (0); Frequency: 3500 MHz;Duty Cycle: 1:1
Medium parameters used: f = 3500 MHz; σ = 2.849 S/m; ε_r = 38.346; ρ = 1000 kg/m^3
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.da53:0

Input Power : 100 mW

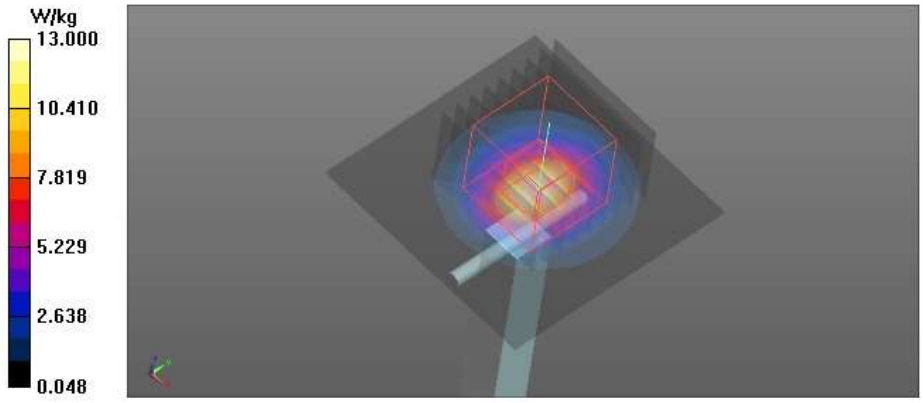
DUT: Dipole 3500 MHz D3500V2; Type: D3500V2; Serial: D3500V2 - SN:1058

Communication System: UID 0, CW (0); Frequency: 3500 MHz;Duty Cycle: 1:1
Medium parameters used: f = 3500 MHz; σ = 2.933 S/m; ε_r = 39.632; ρ = 1000 kg/m^3
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.da53:0

Input Power : 100 mW

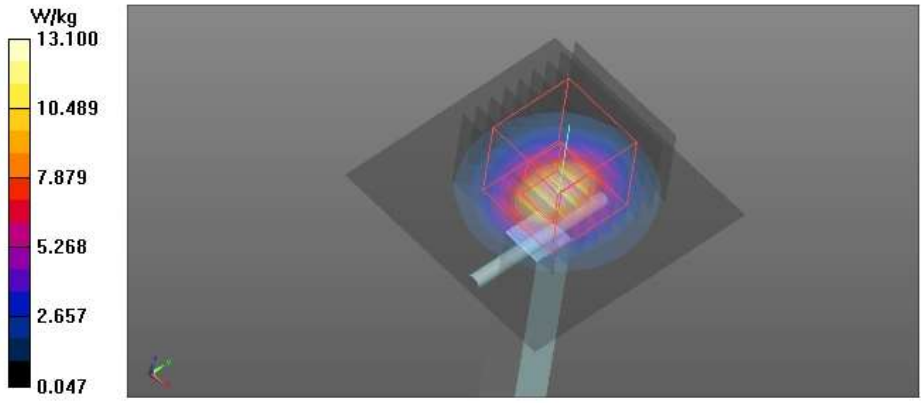
DUT: Dipole 3500 MHz D3500V2; Type: D3500V2; Serial: D3500V2 - SN:1058

Communication System: UID 0, CW (0); Frequency: 3500 MHz;Duty Cycle: 1:1
Medium parameters used: f = 3500 MHz; σ = 2.988 S/m; ε_r = 37.875; ρ = 1000 kg/m^3
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.da53:0

Input Power : 100 mW

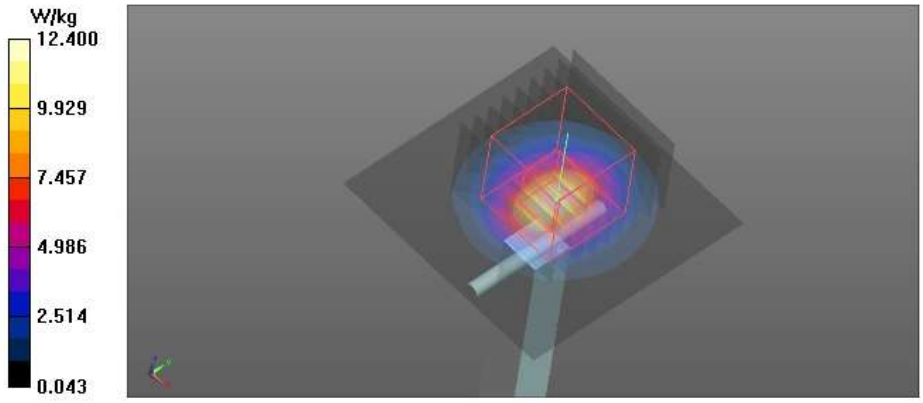
DUT: Dipole 3500 MHz D3500V2; Type: D3500V2; Serial: D3500V2 - SN:1058

Communication System: UID 0, CW (0); Frequency: 3500 MHz;Duty Cycle: 1:1
Medium parameters used: f = 3500 MHz; σ = 2.938 S/m; ε_r = 37.539; ρ = 1000 kg/m^3
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

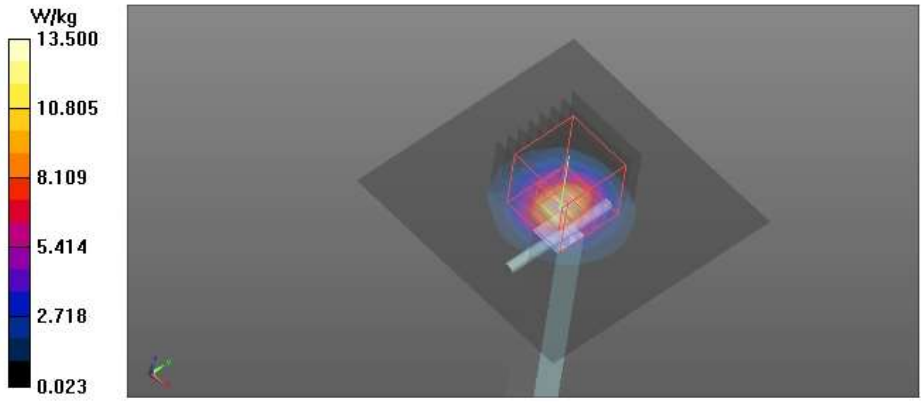
DUT: Dipole 3900 MHz D3900V2; Type: D3900V2; Serial: D3900V2 - SN:1036

Communication System: UID 0, CW (0); Frequency: 3900 MHz;Duty Cycle: 1:1
Medium parameters used: f = 3900 MHz; σ = 3.28 S/m; ε_r = 37.76; ρ = 1000 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 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.da53:0

Input Power : 100 mW

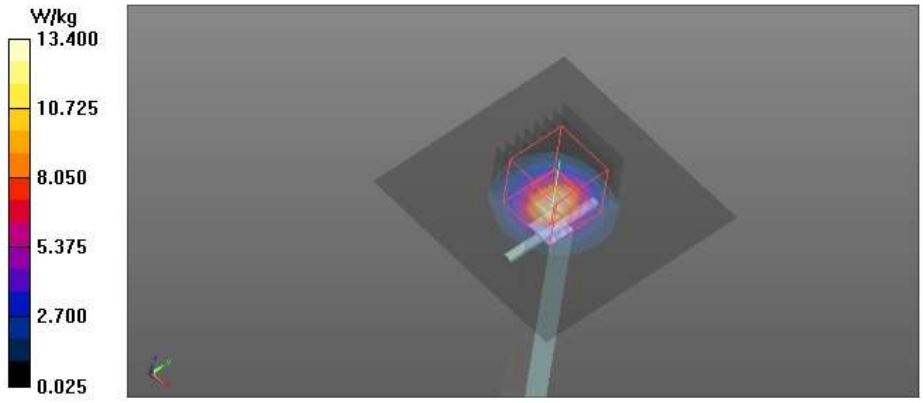
DUT: Dipole 3900 MHz D3900V2; Type: D3900V2; Serial: D3900V2 - SN:1036

Communication System: UID 0, CW (0); Frequency: 3900 MHz;Duty Cycle: 1:1
Medium parameters used: f = 3900 MHz; σ = 3.314 S/m; ε_r = 38.356; ρ = 1000 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 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.da53:0

Input Power : 100 mW

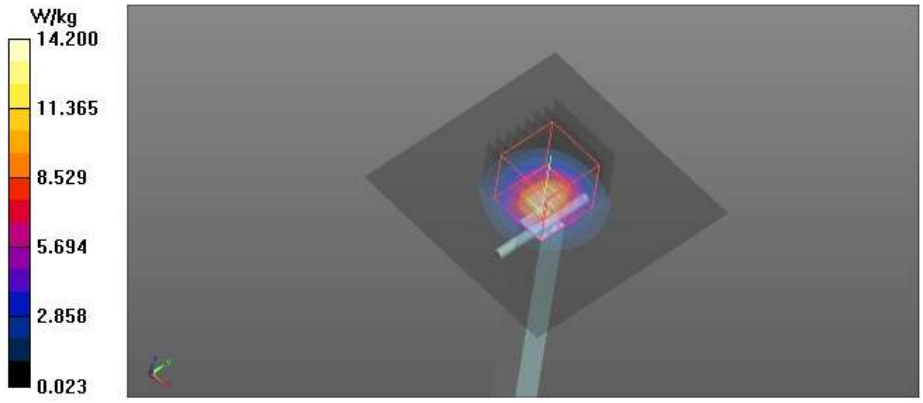
DUT: Dipole 3900 MHz D3900V2; Type: D3900V2; Serial: D3900V2 - SN:1036

Communication System: UID 0, CW (0); Frequency: 3900 MHz;Duty Cycle: 1:1
Medium parameters used: f = 3900 MHz; σ = 3.314 S/m; ε_r = 36.828; ρ = 1000 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 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.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; σ = 3.283 S/m; ε_r = 36.592; ρ = 1000 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 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 13.3 W/kg

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