

APPENDIX A: SYSTEM CHECKING SCANS

Dipole750V2

Communication System: UID 0, CW; Communication System Band: GSM 750 (747.0 - 763.0 MHz);
Frequency: 750 MHz; Communication System PAR: 0 dB; PMF: 1
Medium parameters used (interpolated): $f = 750$ MHz; $\sigma = 0.9$ S/m; $\epsilon_r = 42.27$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3881; ConvF(9.9, 9.9, 9.9) @ 750 MHz; Calibrated: 2024-01-29
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1636; Calibrated: 2024-01-23
- Phantom: SAM 3; Type: QD 000 P41 AA;
- DASYS 52.10.4(1527); SEMCAD X 14.6.14(7483)

Head/Dipole 750 Area Scan (61x131x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Reference Value = 54.34 V/m; Power Drift = -0.15 dB

Fast SAR: SAR(1 g) = 2.11 W/kg; SAR(10 g) = 1.4 W/kg

Maximum value of SAR (interpolated) = 2.77 W/kg

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

Reference Value = 54.34 V/m; Power Drift = -0.15 dB

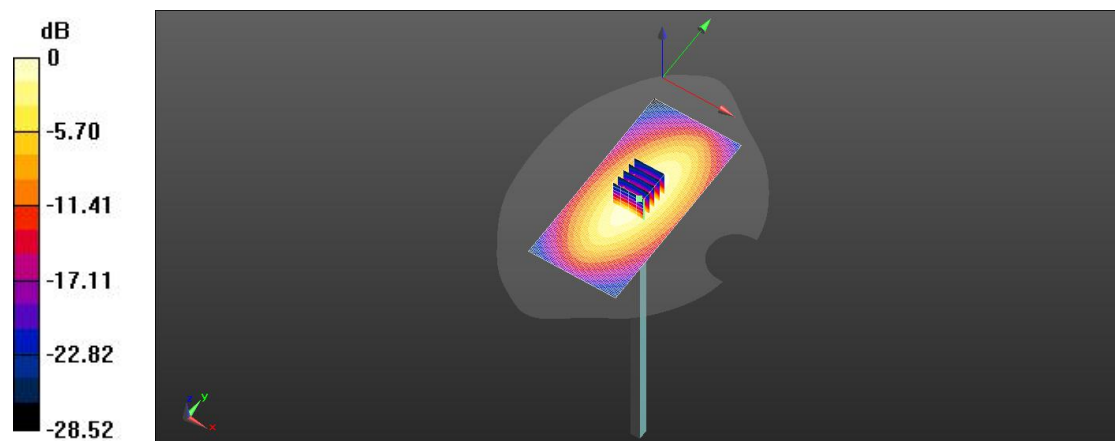
Peak SAR (extrapolated) = 3.06 W/kg

SAR(1 g) = 2.08 W/kg; SAR(10 g) = 1.38 W/kg

Smallest distance from peaks to all points 3 dB below = 23 mm

Ratio of SAR at M2 to SAR at M1 = 62.7%

Maximum value of SAR (measured) = 2.70 W/kg



0 dB = 2.77 W/kg = 4.42 dBW/kg

Dipole835V2

Communication System: UID 0, CW; Communication System Band: D835 (835.0 MHz); Frequency: 835 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used: $f = 835$ MHz; $\sigma = 0.87$ S/m; $\epsilon_r = 41.13$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3881; ConvF(9.39, 9.39, 9.39) @ 835 MHz; Calibrated: 2024-01-29
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1636; Calibrated: 2024-01-23
- Phantom: SAM 3; Type: QD 000 P41 AA;
- DASYS52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Head/Dipole 835/Area Scan (61x131x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Reference Value = 58.28 V/m; Power Drift = -0.02 dB

Fast SAR: SAR(1 g) = 2.41 W/kg; SAR(10 g) = 1.61 W/kg

Maximum value of SAR (interpolated) = 3.13 W/kg

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

Reference Value = 58.28 V/m; Power Drift = -0.02 dB

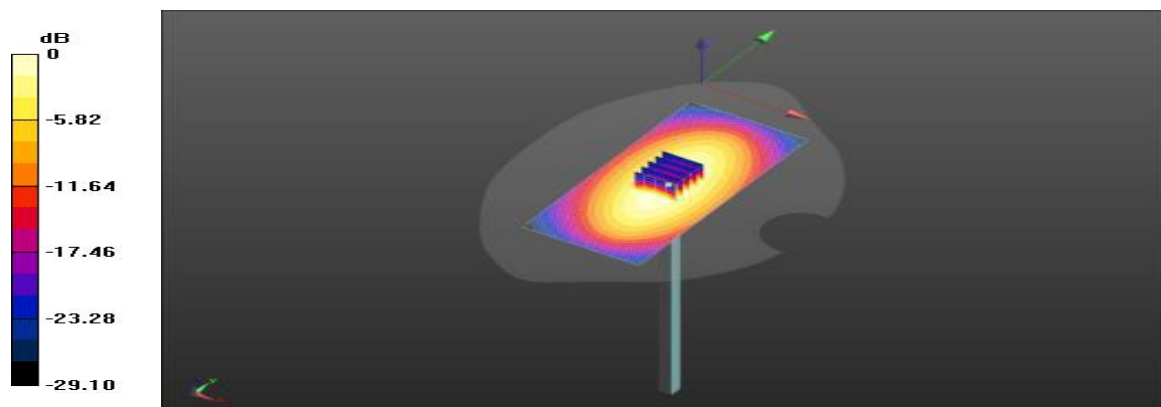
Peak SAR (extrapolated) = 3.66 W/kg

SAR(1 g) = 2.35 W/kg; SAR(10 g) = 1.57 W/kg

Smallest distance from peaks to all points 3 dB below = 17.7 mm

Ratio of SAR at M2 to SAR at M1 = 64.9%

Maximum value of SAR (measured) = 2.97 W/kg



0 dB = 3.13 W/kg = 4.95 dBW/kg

Dipole 1750V2

Communication System: UID 0, CW; Communication System Band: D1750 (1750.0 MHz); Frequency:

1750 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used: $f = 1750$ MHz; $\sigma = 1.39$ S/m; $\epsilon_r = 40.42$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3881; ConvF(8.26, 8.26, 8.26) @ 1750 MHz; Calibrated: 2024-01-29
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1636; Calibrated: 2024-01-23
- Phantom: SAM 3; Type: QD 000 P41 AA;
- DASYS 52.10.4(1527); SEMCAD X 14.6.14(7483)

Head/Dipole 1750/Area Scan (61x131x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Reference Value = 97.21 V/m; Power Drift = -0.08 dB

Fast SAR: SAR(1 g) = 9.25 W/g; SAR(10 g) = 4.94 W/g

Maximum value of SAR (interpolated) = 11.8 W/kg

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

Reference Value = 97.21 V/m; Power Drift = -0.08 dB

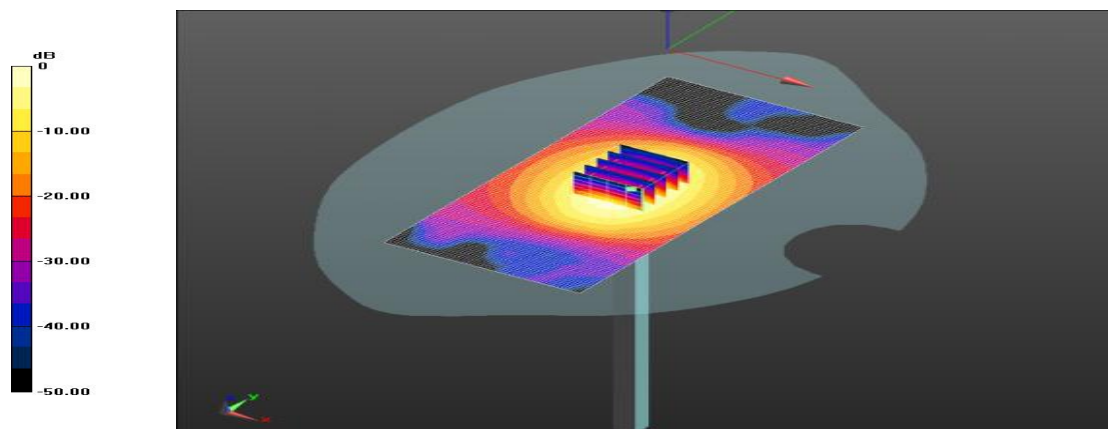
Peak SAR (extrapolated) = 17.1 W/g

SAR(1 g) = 9.13 W/g; SAR(10 g) = 4.91 W/g

Smallest distance from peaks to all points 3 dB below = 9.9 mm

Ratio of SAR at M2 to SAR at M1 = 54.3%

Maximum value of SAR (measured) = 11.5 W/kg



0 dB = 11.8 W/kg = 10.72 dB W/kg

Dipole1900V2

Communication System: UID 0, CW; Communication System Band: D1900 (1900.0 MHz); Frequency:

1900 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.39$ S/m; $\epsilon_r = 40.55$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3881; ConvF(7.95, 7.95, 7.95) @ 1900 MHz; Calibrated: 2024-01-29
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1636; Calibrated: 2024-01-23
- Phantom: SAM 3; Type: QD 000 P41 AA;
- DASYS52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Head/Dipole 1900/Area Scan (61x61x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Reference Value = 95.87 V/m; Power Drift = -0.03 dB

Fast SAR: SAR(1 g) = 10 W/kg; SAR(10 g) = 5.25 W/kg

Maximum value of SAR (interpolated) = 12.9 W/kg

Head/Dipole 1900/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 95.87 V/m; Power Drift = -0.03 dB

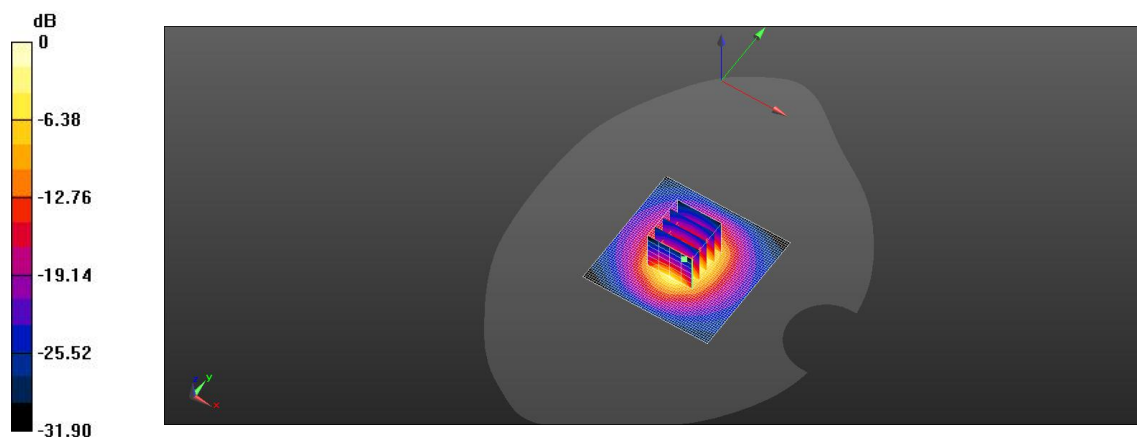
Peak SAR (extrapolated) = 19.2 W/kg

SAR(1 g) = 9.91 W/kg; SAR(10 g) = 5.2 W/kg

Smallest distance from peaks to all points 3 dB below = 10.1 mm

Ratio of SAR at M2 to SAR at M1 = 53.2%

Maximum value of SAR (measured) = 12.5 W/kg



0 dB = 12.9 W/kg = 11.11 dBW/kg

Dipole2450V2

Communication System: UID 0, CW; Communication System Band: D2450 (2450.0 MHz); Frequency:

2450 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.81$ S/m; $\epsilon_r = 38.66$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3881; ConvF(7.51, 7.51, 7.51) @ 2450 MHz; Calibrated: 2024-01-29
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1636; Calibrated: 2024-01-23
- Phantom: SAM 3; Type: QD 000 P41 AA;
- DASYS 52.10.4(1527); SEMCAD X 14.6.14(7483)

Head/Dipole 2450/Area Scan (61x61x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Reference Value = 103.1 V/m; Power Drift = 0.05 dB

Fast SAR: SAR(1 g) = 13.1 W/kg; SAR(10 g) = 6.14 W/kg

Maximum value of SAR (interpolated) = 16.2 W/kg

Head/Dipole 2450/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 103.1 V/m; Power Drift = 0.05 dB

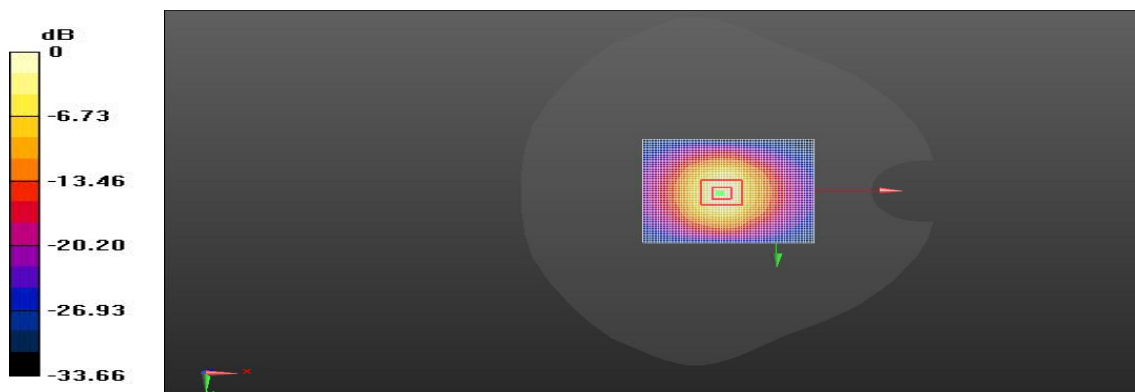
Peak SAR (extrapolated) = 27.6 W/kg

SAR(1 g) = 13 W/kg; SAR(10 g) = 6.08 W/kg

Smallest distance from peaks to all points 3 dB below = 8.9 mm

Ratio of SAR at M2 to SAR at M1 = 47.3%

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



0 dB = 16.2 W/kg = 12.10 dBW/kg

Dipole2600V2

Communication System: UID 0, CW; Communication System Band: D2600 (2600.0 MHz); Frequency:

2600 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used: $f = 2600$ MHz; $\sigma = 2.03$ S/m; $\epsilon_r = 38.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3881; ConvF(7.31, 7.31, 7.31) @ 2600 MHz; Calibrated: 2024-01-29
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1636; Calibrated: 2024-01-23
- Phantom: SAM 3; Type: QD 000 P41 AA;
- DASYS52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Head/Dipole 2600MHz/Area Scan (61x61x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Reference Value = 100.2 V/m; Power Drift = -0.02 dB

Fast SAR: SAR(1 g) = 14.2 W/kg; SAR(10 g) = 6.42 W/kg

Maximum value of SAR (interpolated) = 18.0W/kg

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

Reference Value = 100.2 V/m; Power Drift = -0.02 dB

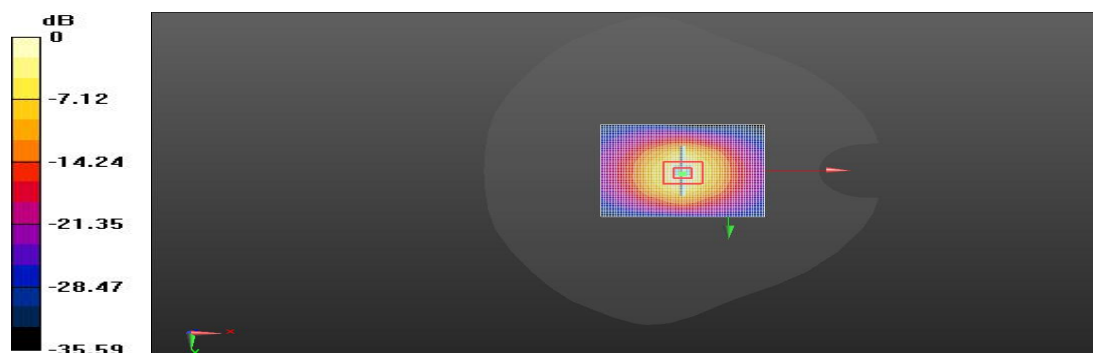
Peak SAR (extrapolated) = 30.6 W/kg

SAR(1 g) = 14.1 W/kg; SAR(10 g) = 6.34 W/kg

Smallest distance from peaks to all points 3 dB below = 8.9 mm

Ratio of SAR at M2 to SAR at M1 = 47.5%

Maximum value of SAR (measured) = 17.7W/kg



0 dB = 18.0 W/kg = 12.55 dBW/kg

Dipole 5.2GV2

Communication System: UID 0, CW (0); Communication System Band: CW5250; Frequency: 5250

MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used: $f = 5250$ MHz; $\sigma = 4.83$ S/m; $\epsilon_r = 36.49$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3881; ConvF(5.24, 5.24, 5.24) @ 5250 MHz; Calibrated: 2024-01-29
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1636; Calibrated: 2024-01-23
- Phantom: SAM 3; Type: QD 000 P41 AA;
- DASYS 52.10.4(1527); SEMCAD X 14.6.14(7483)

Head/Dipole 5.25G/Area Scan (81x121x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Reference Value = 65.42 V/m; Power Drift = 0.02 dB

Fast SAR: SAR(1 g) = 7.79 W/kg; SAR(10 g) = 2.22 W/kg

Maximum value of SAR (interpolated) = 9.65 W/kg

Head/Dipole 5.25G/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 65.42 V/m; Power Drift = 0.02 dB

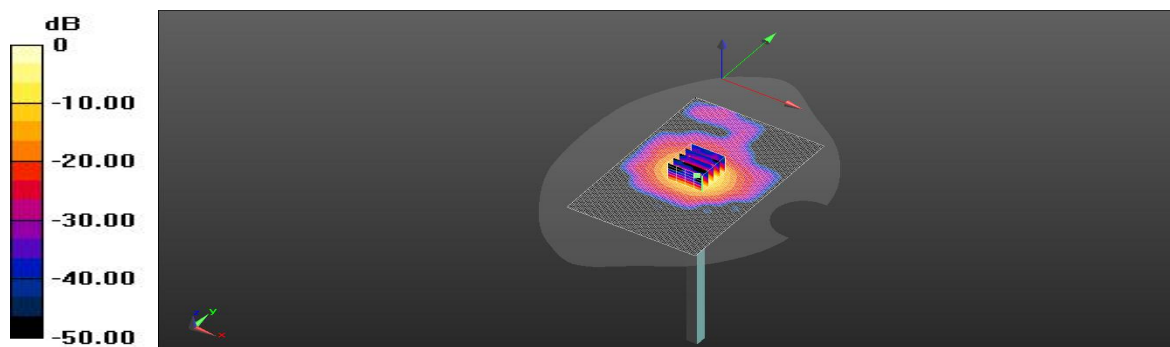
Peak SAR (extrapolated) = 31.7 W/kg

SAR(1 g) = 7.67 W/kg; SAR(10 g) = 2.18 W/kg

Smallest distance from peaks to all points 3 dB below = 7.2 mm

Ratio of SAR at M2 to SAR at M1 = 63.5%

Maximum value of SAR (measured) = 9.56 W/kg



0 dB = 9.65 W/kg = 9.85 dBW/kg

Dipole 5.6GV2

Communication System: UID 0, CW (0); Communication System Band: CW5600; Frequency: 5600 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used: $f = 5600$ MHz; $\sigma = 5.21$ S/m; $\epsilon_r = 34.96$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3881; ConvF(4.60, 4.60, 4.60) @ 5600 MHz; Calibrated: 2024-01-29
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1636; Calibrated: 2024-01-23
- Phantom: SAM 3; Type: QD 000 P41 AA;
- DASYS52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Head/Dipole 5.6G/Area Scan (81x121x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Reference Value = 64.38 V/m; Power Drift = 0.01 dB

Fast SAR: SAR(1 g) = 8.06 W/kg; SAR(10 g) = 2.32 W/kg

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

Head/Dipole 5.6G/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 64.38 V/m; Power Drift = 0.01 dB

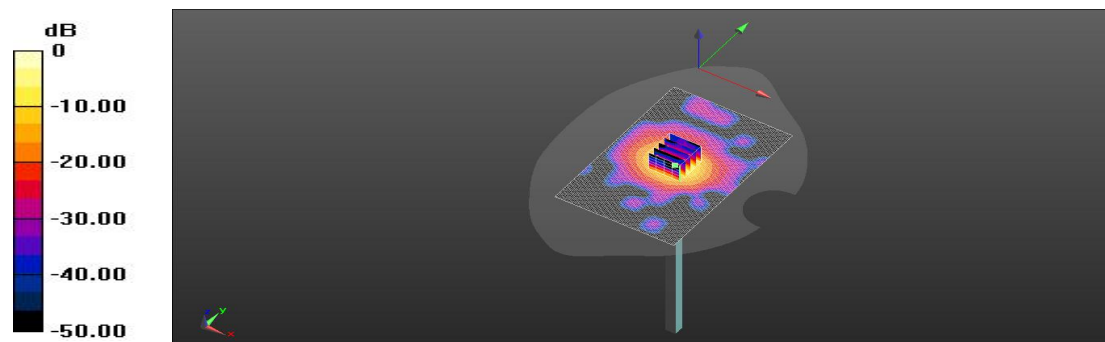
Peak SAR (extrapolated) = 36.4 W/kg

SAR(1 g) = 8.02 W/kg; SAR(10 g) = 2.27 W/kg

Smallest distance from peaks to all points 3 dB below = 7.2 mm

Ratio of SAR at M2 to SAR at M1 = 65.0%

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



0 dB = 10.2 W/kg = 10.08 dBW/kg

Dipole 5.75GV2

Communication System: UID 0, CW (0); Communication System Band: CW5750; Frequency: 5750

MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used: $f = 5750$ MHz; $\sigma = 5.48$ S/m; $\epsilon_r = 34.81$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3881; ConvF(4.68, 4.68, 4.68) @ 5750 MHz; Calibrated: 2024-01-29
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1636; Calibrated: 2024-01-23
- Phantom: SAM 3; Type: QD 000 P41 AA;
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Head/Dipole 5.75G/Area Scan (81x121x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Reference Value = 63.00 V/m; Power Drift = 0.17 dB

Fast SAR: SAR(1 g) = 7.86 W/kg; SAR(10 g) = 2.25 W/kg

Maximum value of SAR (interpolated) = 9.81 W/kg

Head/Dipole 5.75G/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 63.00 V/m; Power Drift = 0.17 dB

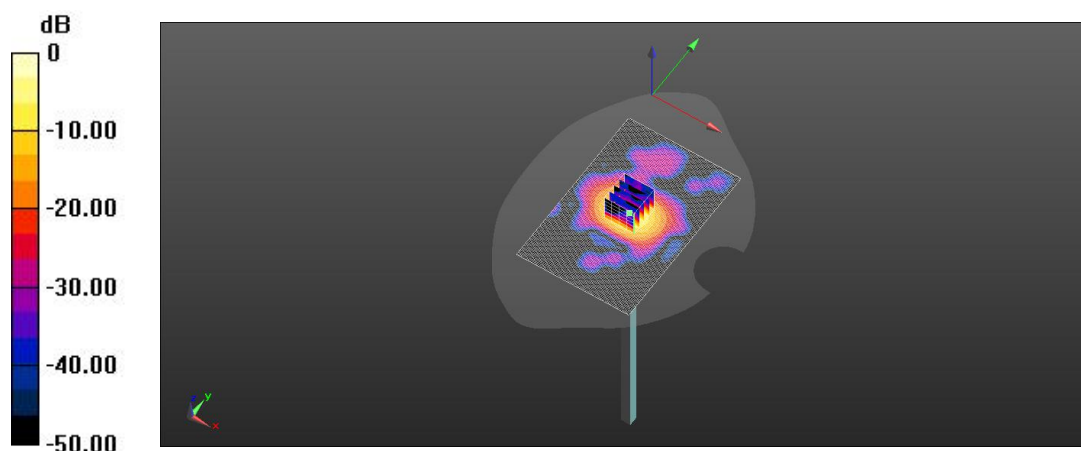
Peak SAR (extrapolated) = 36.7 W/kg

SAR(1 g) = 7.74 W/kg; SAR(10 g) = 2.2 W/kg

Smallest distance from peaks to all points 3 dB below = 7.2 mm

Ratio of SAR at M2 to SAR at M1 = 59.8%

Maximum value of SAR (measured) = 9.58 W/kg



0 dB = 9.81 W/kg = 9.92 dBW/kg