

APPENDIX A: SYSTEM CHECKING SCANS

Dipole750V2

Communication System: UID 0, CW; Communication System Band: D750 (750.0 MHz); Frequency: 750 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used: $f = 750$ MHz; $\sigma = 0.89$ S/m; $\epsilon_r = 43.11$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY Configuration:

- Probe: EX3DV4 - SN7623; ConvF(10.6, 10.6, 10.6) @ 750 MHz; Calibrated: 2023-02-28
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1637; Calibrated: 2023-10-20
- Phantom: SAM 3; Type: QD 000 P41 AA;
- DASY52 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 = 52.91 V/m; Power Drift = -0.15 dB

Fast SAR: SAR(1 g) = 2.09 W/kg; SAR(10 g) = 1.37 W/kg

Maximum value of SAR (interpolated) = 2.72 W/kg

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

Reference Value = 52.91 V/m; Power Drift = -0.15 dB

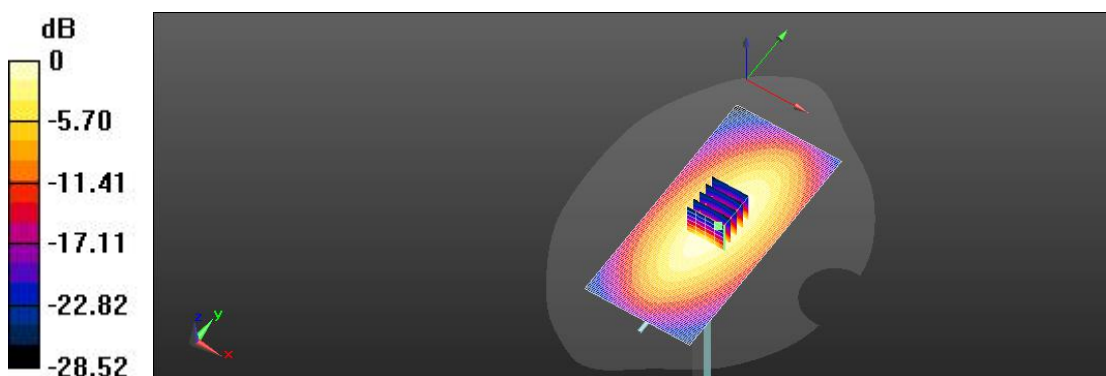
Peak SAR (extrapolated) = 2.89 W/kg

SAR(1 g) = 1.96 W/kg; SAR(10 g) = 1.32 W/kg

Smallest distance from peaks to all points 3 dB below = 23.6 mm

Ratio of SAR at M2 to SAR at M1 = 62.2%

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



0 dB = 2.72 W/kg = 4.35 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; $\sigma = 0.92$ S/m; $\epsilon_r = 42.71$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section
 Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN7623; ConvF(10.21, 10.21, 10.21) @ 835 MHz; Calibrated: 2023-02-28
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1637; Calibrated: 2023-10-20
- Phantom: SAM 3; Type: QD 000 P41 AA;
- DASY52 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 = 60.66 V/m; Power Drift = -0.11 dB

Fast SAR: SAR(1 g) = 2.48 W/kg; SAR(10 g) = 1.57 W/kg

Maximum value of SAR (interpolated) = 3.22 W/kg

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

Reference Value = 60.66 V/m; Power Drift = -0.11 dB

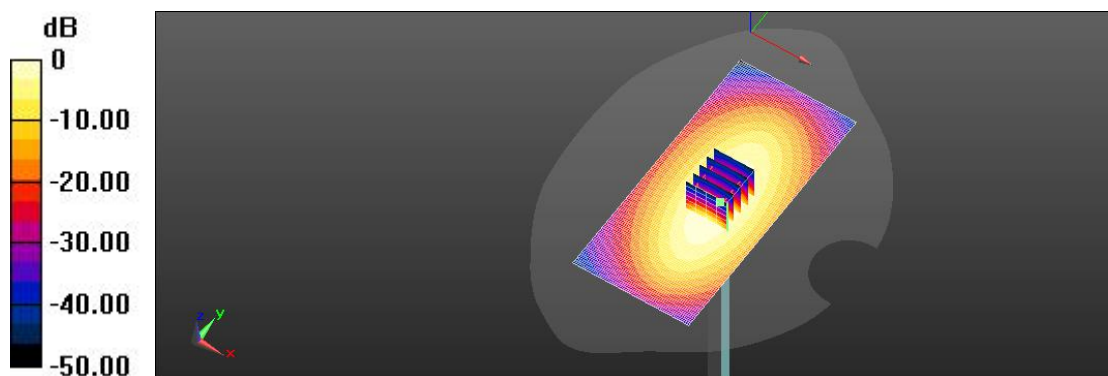
Peak SAR (extrapolated) = 3.69 W/kg

SAR(1 g) = 2.37 W/kg; SAR(10 g) = 1.52 W/kg

Smallest distance from peaks to all points 3 dB below = 17.8 mm

Ratio of SAR at M2 to SAR at M1 = 65.3%

Maximum value of SAR (measured) = 3.09 W/kg



0 dB = 3.22 W/kg = 5.08 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; $\sigma = 1.34$ 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 - SN7623; ConvF(8.65, 8.65, 8.65) @ 1750 MHz; Calibrated: 2023-02-28
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1637; Calibrated: 2023-10-20
- Phantom: SAM 3; Type: QD 000 P41 AA;
- DASYS52 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 = 94.97 V/m; Power Drift = 0.11 dB

Fast SAR: SAR(1 g) = 9.04 W/g; SAR(10 g) = 4.84 W/g

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

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

Reference Value = 94.97 V/m; Power Drift = 0.11 dB

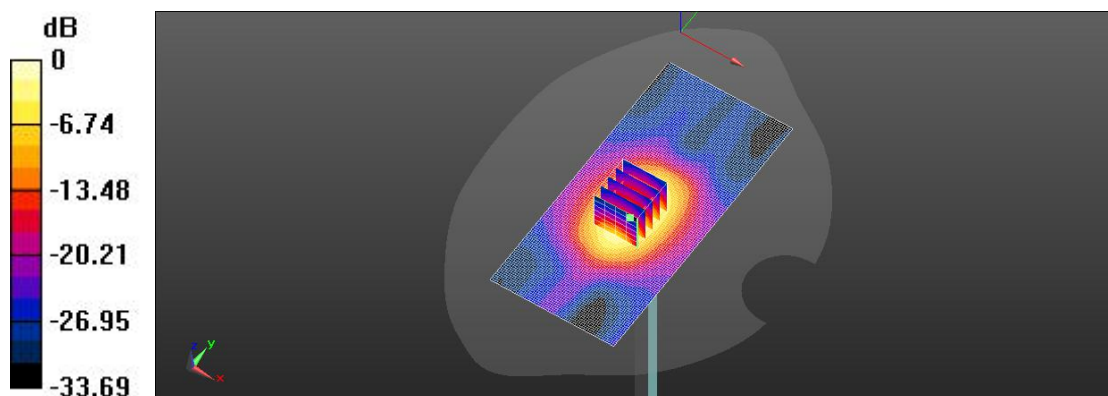
Peak SAR (extrapolated) = 16.8 W/g

SAR(1 g) = 8.98 W/g; SAR(10 g) = 4.81 W/g

Smallest distance from peaks to all points 3 dB below = 10.2 mm

Ratio of SAR at M2 to SAR at M1 = 54.1%

Maximum value of SAR (measured) = 11.2 W/kg



0 dB = 11.5 W/kg = 10.60 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; $\sigma = 1.41$ S/m; $\epsilon_r = 40.99$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY Configuration:

- Probe: EX3DV4 - SN7623; ConvF(8.34, 8.34, 8.34) @ 1900 MHz; Calibrated: 2023-02-28
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1637; Calibrated: 2023-10-20
- Phantom: SAM 3; Type: QD 000 P41 AA;
- DASY52 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 = 106.2 V/m; Power Drift = 0.13 dB

Fast SAR: SAR(1 g) = 10.2 W/kg; SAR(10 g) = 5.17 W/kg

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

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

Reference Value = 106.2 V/m; Power Drift = 0.13 dB

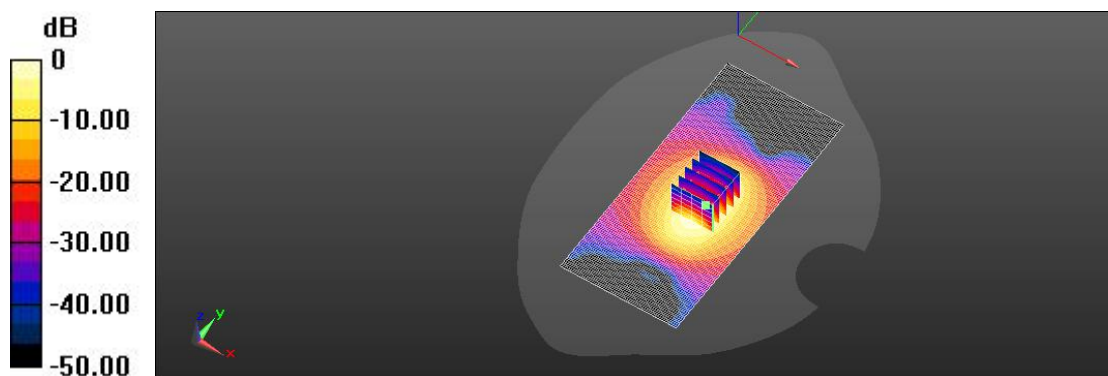
Peak SAR (extrapolated) = 19.6 W/kg

SAR(1 g) = 10.1 W/kg; SAR(10 g) = 5.13 W/kg

Smallest distance from peaks to all points 3 dB below = 10.3 mm

Ratio of SAR at M2 to SAR at M1 = 53.6%

Maximum value of SAR (measured) = 12.6 W/kg



0 dB = 12.8 W/kg = 11.07 dBW/kg