

Annex A System performance check

1. System Performance Check for Body Tissue simulating liquid
 - System Performance Check 2450 MHz Body
 - System Performance Check 5200 MHz Body
 - System Performance Check 5600 MHz Body
 - System Performance Check 5800 MHz Body

Test Laboratory: Cetecom Essen

System Performance Check 2450 MHz Body

DUT: D2450V2; Type: D2450V2; Serial: 993

Communication System: UID 0, CW (0); Communication System Band: D2450 (2450 MHz);
Frequency: 2450 MHz;
Medium parameters used: $f = 2450$ MHz; $\sigma = 2.02$ S/m; $\epsilon_r = 52.291$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3860; ConvF(7.98, 7.98, 7.98); Calibrated: 25.09.2017;
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1233; Calibrated: 16.02.2017
- Phantom: ELI V5.0 (20deg probe tilt); Type: QD OVA 002 Ax; Serial: 1125
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Body/Area Scan (7x7x1): Measurement grid: $dx=12$ mm, $dy=12$ mm
Maximum value of SAR (measured) = 13.2 W/kg

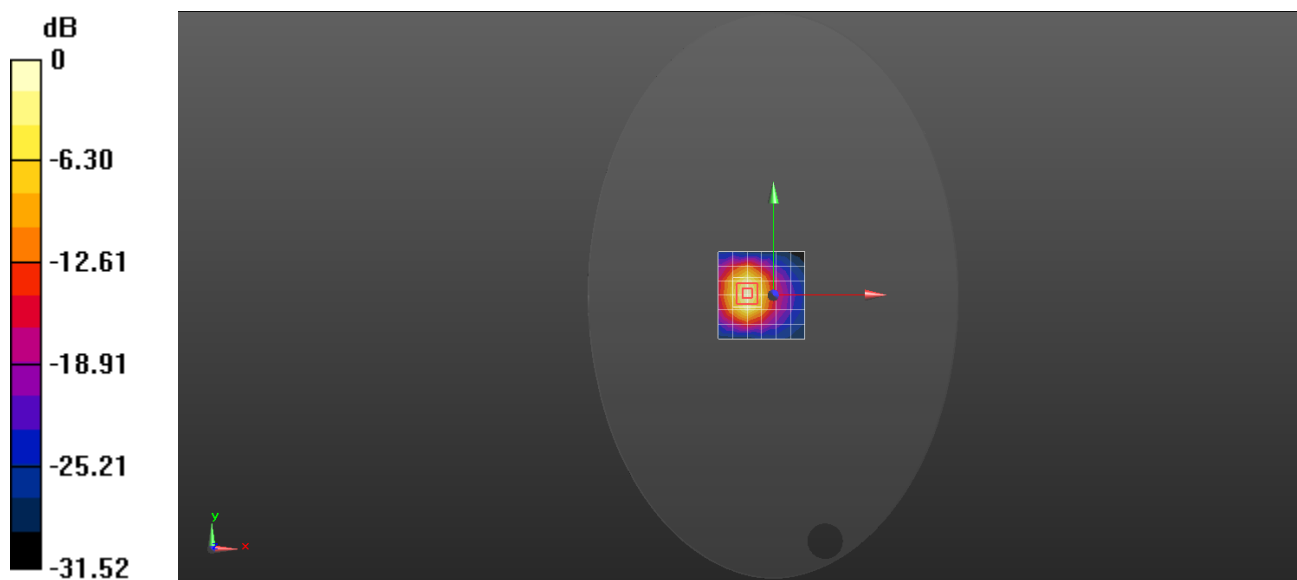
Configuration/Body/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 105.3 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 25.8 W/kg

SAR(1 g) = 13.12 W/kg; SAR(10 g) = 6.25 W/kg

Maximum value of SAR (measured) = 14.8 W/kg



0 dB = 14.8 W/kg = 11.70 dBW/kg

Test Laboratory: Cetecom Essen

System Performance Check 5200 MHz Body

DUT: D5GHzV2; Type: D5GHzV2; Serial: 1193

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz); Frequency: 5200 MHz;

Medium parameters used: $f = 5200$ MHz; $\sigma = 5.391$ S/m; $\epsilon_r = 47.33$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3860; ConvF(4.59, 4.59, 4.59); Calibrated: 25.09.2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1233; Calibrated: 16.02.2017
- Phantom: ELI V5.0 (20deg probe tilt); Type: QD OVA 002 Ax; Serial: 1125
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Body/Area Scan (7x7x1): Measurement grid: $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 16.51 W/kg

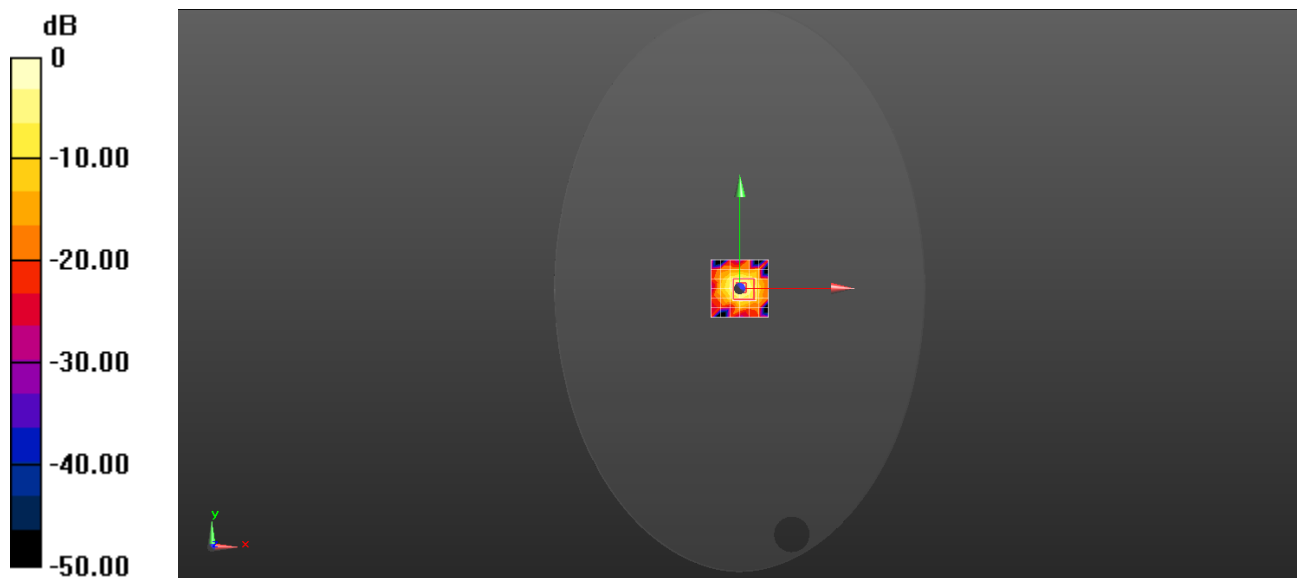
Configuration/Body/Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 71.79 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 28.7 W/kg

SAR(1 g) = 7.22 W/kg; SAR(10 g) = 2.03 W/kg

Maximum value of SAR (measured) = 18.3 W/kg



0 dB = 18.3 W/kg = 12.62 dBW/kg

Test Laboratory: Cetecom Essen

System Performance Check 5600 MHz Body

DUT: D5GHzV2; Type: D5GHzV2; Serial: 1193

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz); Frequency: 5600 MHz;

Medium parameters used: $f = 5600$ MHz; $\sigma = 5.965$ S/m; $\epsilon_r = 46.41$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3860; ConvF(3.94, 3.94, 3.94); Calibrated: 25.09.2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1233; Calibrated: 16.02.2017
- Phantom: ELI V5.0 (20deg probe tilt); Type: QD OVA 002 Ax; Serial: 1125
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Body/Area Scan (7x7x1): Measurement grid: $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 18.51 W/kg

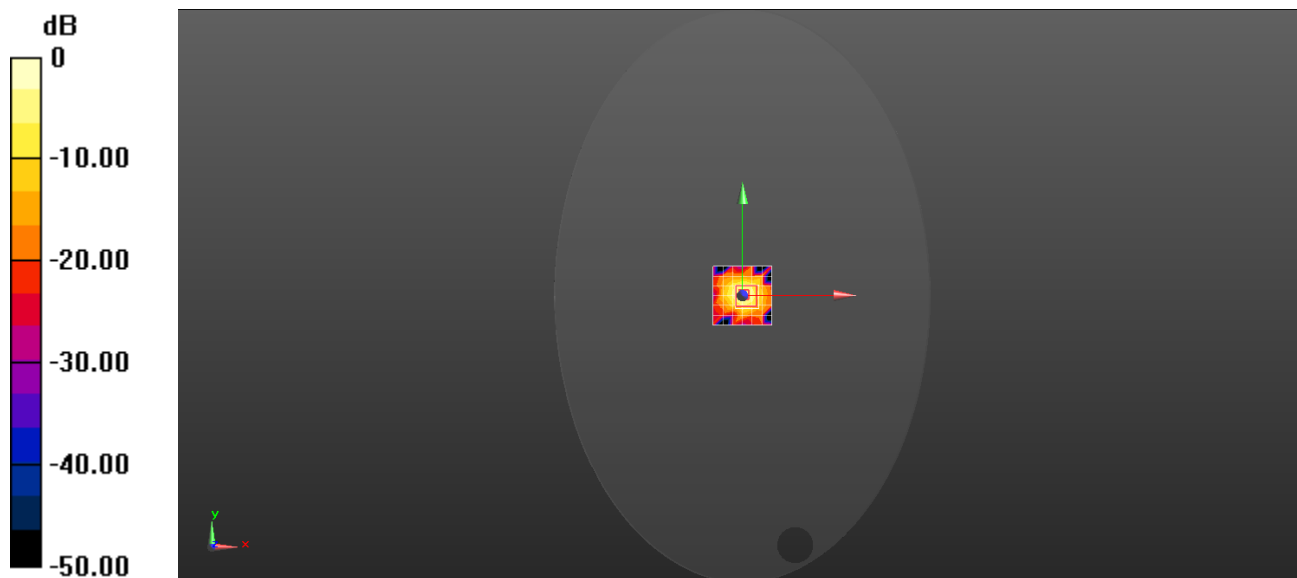
Configuration/Body/Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 67.79 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 34.7 W/kg

SAR(1 g) = 7.82 W/kg; SAR(10 g) = 2.15 W/kg

Maximum value of SAR (measured) = 20.3 W/kg



0 dB = 20.3 W/kg = 13.07 dBW/kg

Test Laboratory: Cetecom Essen

System Performance Check 5800 MHz Body

DUT: D5GHzV2; Type: D5GHzV2; Serial: 1193

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz); Frequency: 5800 MHz;

Medium parameters used: $f = 5800$ MHz; $\sigma = 6.268$ S/m; $\epsilon_r = 46.052$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3860; ConvF(4.23, 4.23, 4.23); Calibrated: 25.09.2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1233; Calibrated: 16.02.2017
- Phantom: ELI V5.0 (20deg probe tilt); Type: QD OVA 002 Ax; Serial: 1125
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Body/Area Scan (7x7x1): Measurement grid: $dx=10$ mm, $dy=10$ mm

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

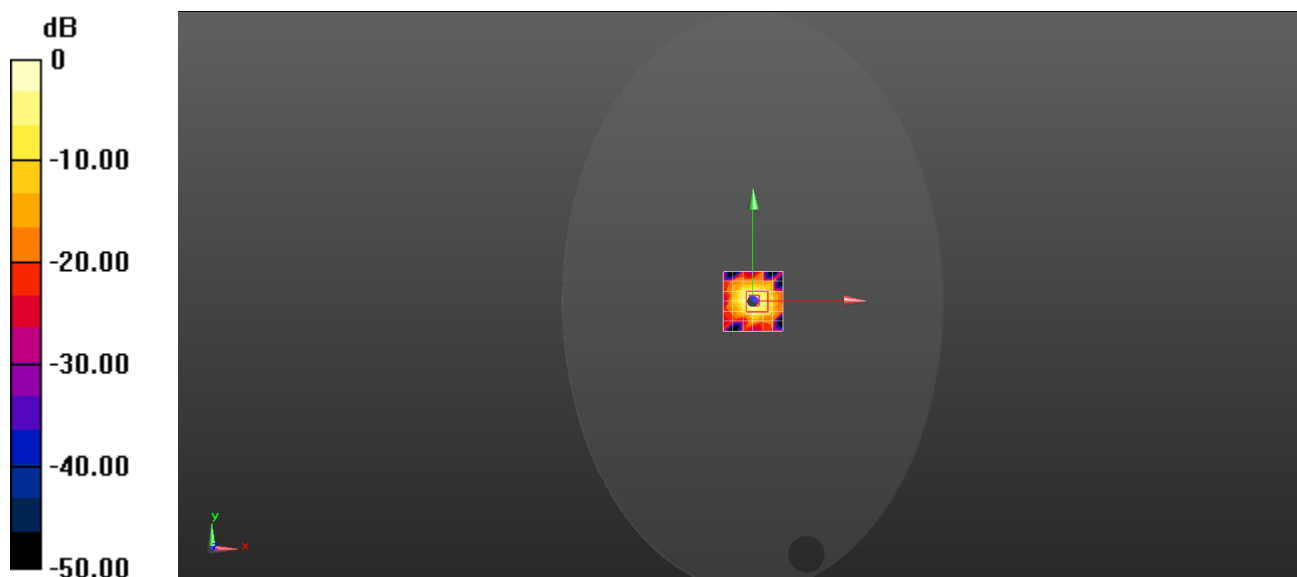
Configuration/Body/Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 57.79 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 35.7 W/kg

SAR(1 g) = 7.74 W/kg; SAR(10 g) = 2.31 W/kg

Maximum value of SAR (measured) = 19.6 W/kg



0 dB = 19.6 W/kg = 12.92 dBW/kg