Appendix C: System Check

20230202 750 MHz Ambient Temp_23.5 deg.C._Liquid Temp_23.5 deg.C

Communication System info
Communication System: UID 0, #CW (0)
Communication System Band: D750 (750.0 MHz)Duty Cycle: 1:1
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

Probe info:
Probe: EX3DV4 - SN3825 / Calibrated: 2022/07/20
ConvF(9.83, 9.83, 9.83) @ 750 MHz
Medium parameters used: f = 750 MHz; σ = 0.916 S/m; ε_r = 41.99; ρ = 1000 kg/m^3
Sensor-Surface: 1.4 mm (Mechanical Surface Detection), Sensor-Surface: 0 mm (Fix Surface)

DAE info:
Electronics: DAE4 Sn1369 / Calibrated: 2022/05/09

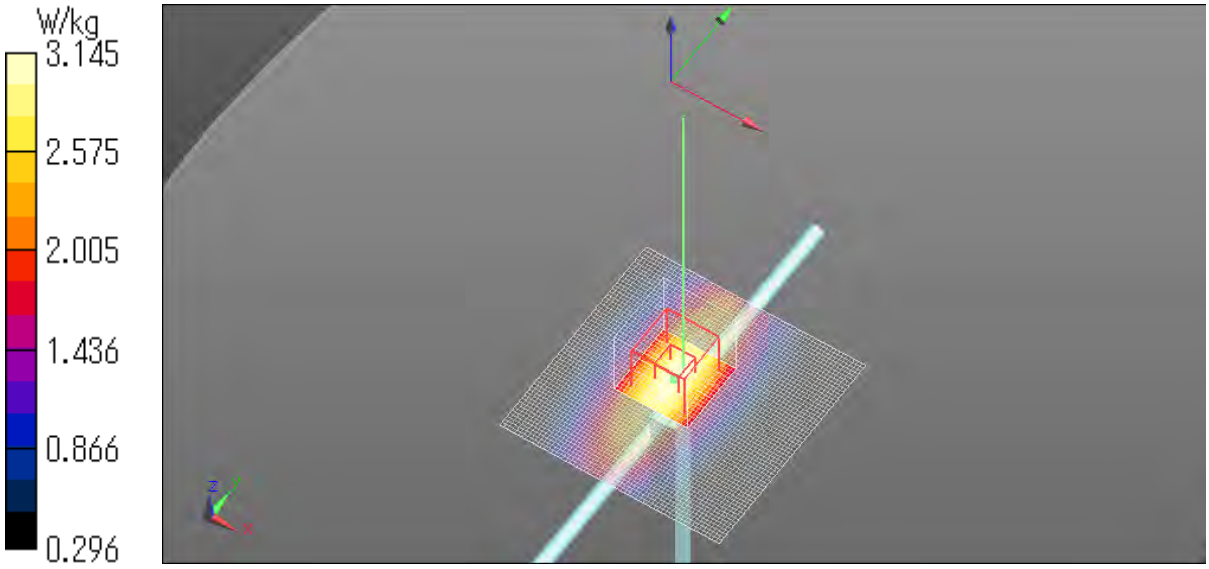
Phantom info:
Phantom: ELI v5.0 TP1207 (30 deg probe tilt)/Phantom section: Flat Section
Type: QDOVA001BB
Serial: TP:1207
Software info DASY52 52.10.4(1535) SEMCAD X 14.6.14(7501)

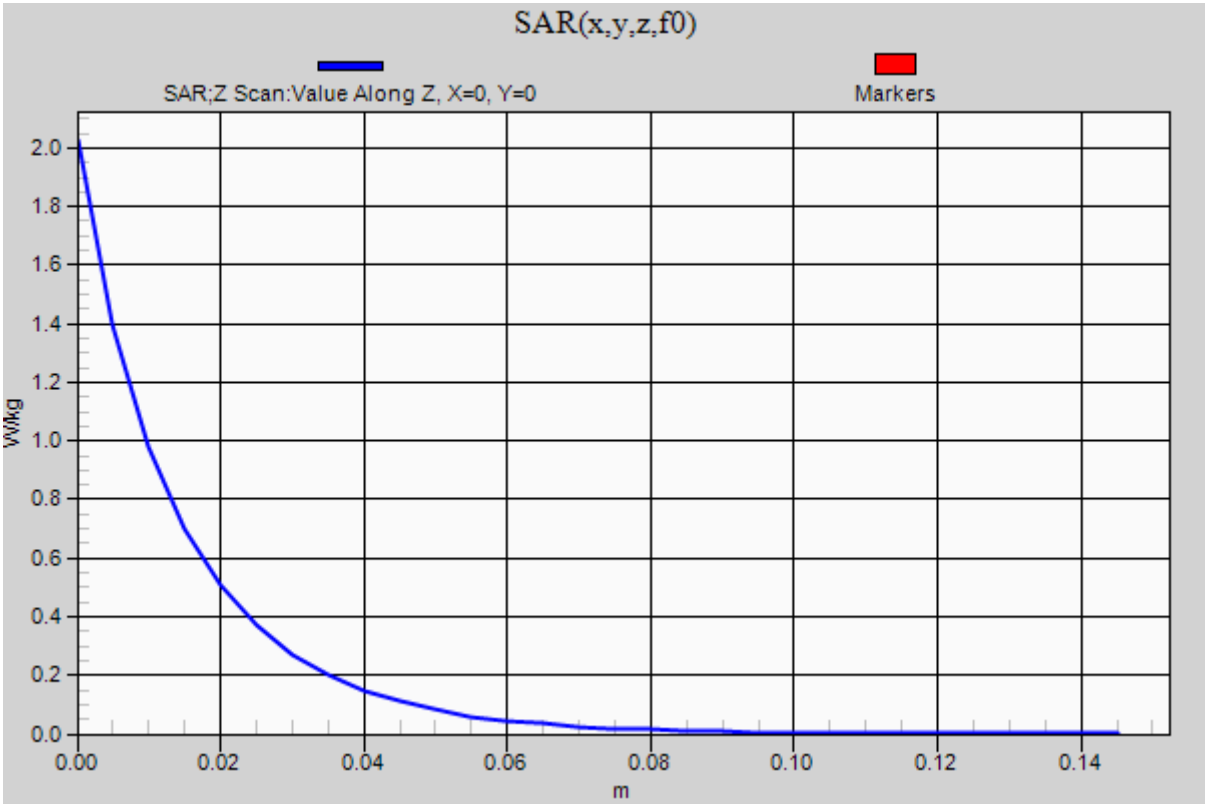
Configuration/250 mW/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 3.02 W/kg

Configuration/250 mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5 mm, dy=5 mm, dz=5 mm
Reference Value = 60.35 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 3.59 W/kg
SAR(1 g) = 2.32 W/kg; SAR(10 g) = 1.53 W/kg
Smallest distance from peaks to all points 3 dB below: Larger than measurement grid (> 15 mm)
Ratio of SAR at M2 to SAR at M1 = 64.5%
Maximum value of SAR (measured) = 3.14 W/kg

Configuration/250 mW/Z Scan (1x1x31): Measurement grid: dx=20 mm, dy=20 mm, dz=5 mm
Maximum value of SAR (measured) = 2.02 W/kg

Note: Liquid temp. is kept within the 2 degree.C. during the test.


W/kg
3.145
2.575
2.005
1.436
0.866
0.296


SAR(x,y,z,f0)
SAR;Z Scan:Value Along Z, X=0, Y=0
Markers
W/kg
2.0
1.8
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
0.00
0.02
0.04
0.06
0.08
0.10
0.12
0.14
m

20230206 750 MHz Ambient Temp_22.5 deg.C._Liquid Temp_22.5 deg.C

Communication System info
Communication System: UID 0, #CW (0)
Communication System Band: D750 (750.0 MHz)Duty Cycle: 1:1
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

Probe info:
Probe: EX3DV4 - SN3917 / Calibrated: 2022/05/17
ConvF(10.11, 10.11, 10.11) @ 750 MHz
Medium parameters used: f = 750 MHz; σ = 0.902 S/m; ε_r = 41.378; ρ = 1000 kg/m^3
Sensor-Surface: 1.4 mm (Mechanical Surface Detection), Sensor-Surface: 0 mm (Fix Surface)

DAE info:
Electronics: DAE4 Sn509 / Calibrated: 2022/07/13

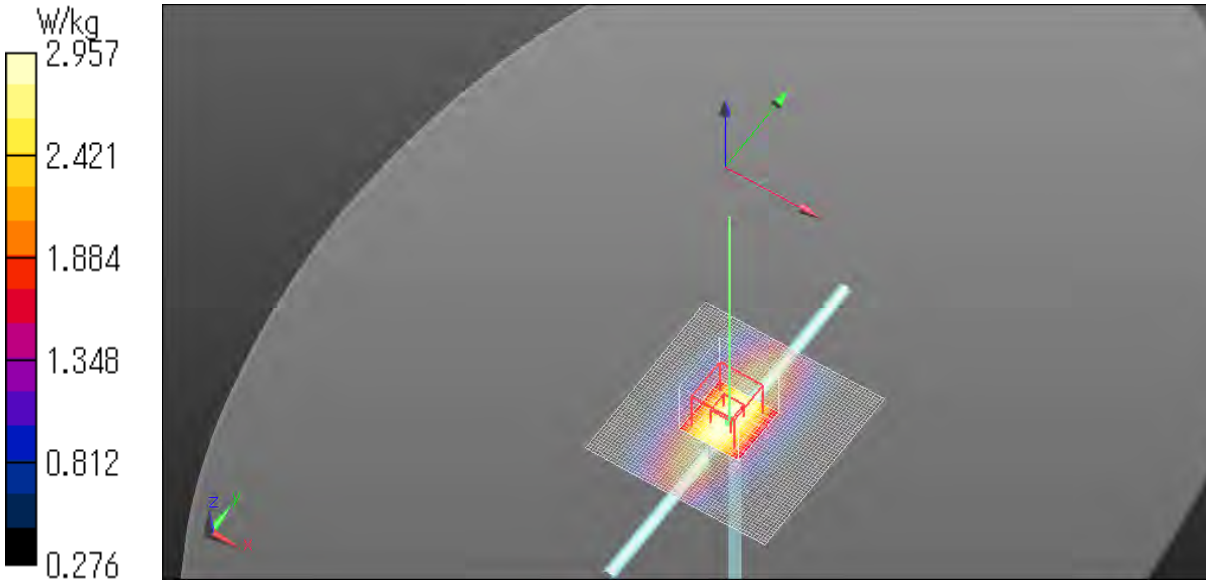
Phantom info:
Phantom: ELI v5.0 (20 deg probe tilt)/Phantom section: Flat Section
Type: QDOVA001BB
Serial: TP:1203
Software info DASY52 52.10.4(1535) SEMCAD X 14.6.14(7501)

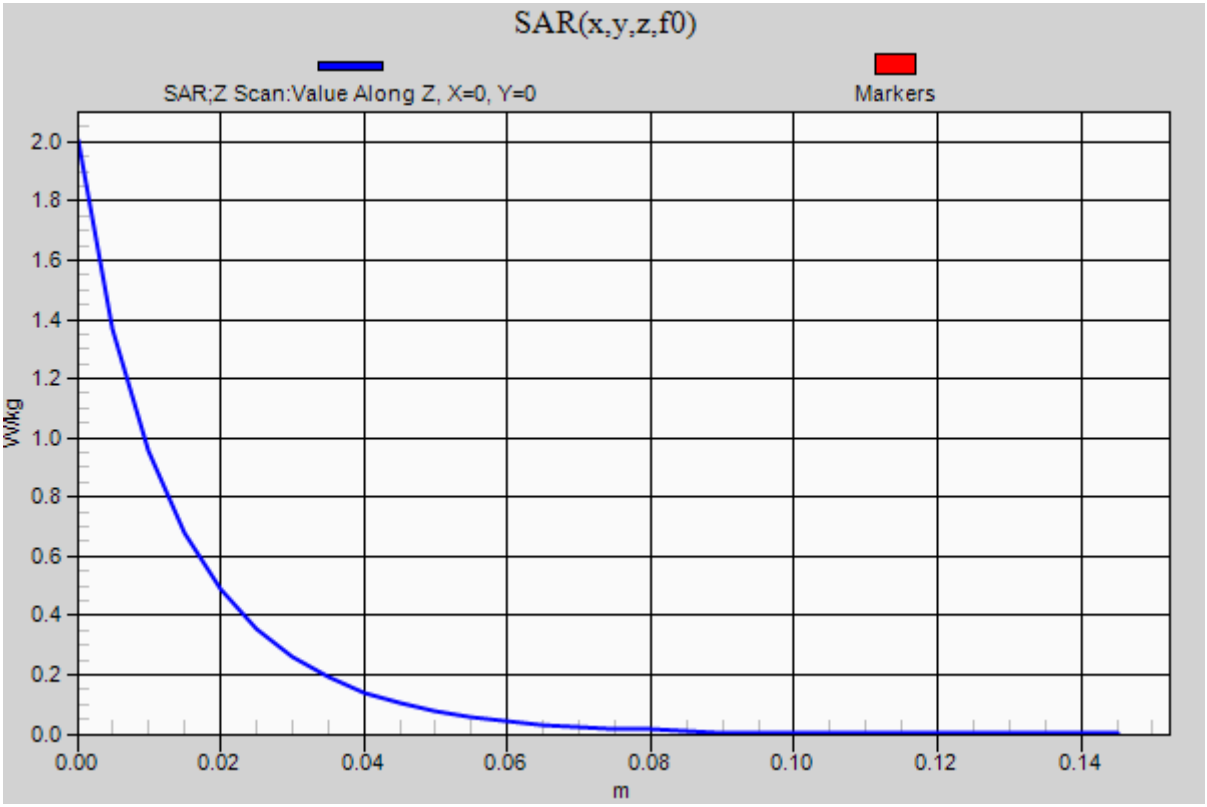
Configuration/250 mW/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 2.94 W/kg

Configuration/250 mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5 mm, dy=5 mm, dz=5 mm
Reference Value = 60.24 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 3.30 W/kg
SAR(1 g) = 2.24 W/kg; SAR(10 g) = 1.48 W/kg
Smallest distance from peaks to all points 3 dB below = 21.3 mm
Ratio of SAR at M2 to SAR at M1 = 67.7 %
Maximum value of SAR (measured) = 2.96 W/kg

Configuration/250 mW/Z Scan (1x1x31): Measurement grid: dx=20 mm, dy=20 mm, dz=5 mm
Maximum value of SAR (measured) = 2.00 W/kg

Note: Liquid temp. is kept within the 2 degree.C. during the test.


W/kg
2.957
2.421
1.884
1.348
0.812
0.276


SAR(x,y,z,f0)
SAR;Z Scan:Value Along Z, X=0, Y=0
Markers
W/kg
2.0
1.8
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
0.00
0.02
0.04
0.06
0.08
0.10
0.12
0.14
m

20230206 835 MHz Ambient Temp_22.5 deg.C._Liquid Temp_22.5 deg.C

Communication System info
Communication System: UID 0, #CW (0)
Communication System Band: D835 (835.0 MHz)Duty Cycle: 1:1
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

Probe info:
Probe: EX3DV4 - SN3917 / Calibrated: 2022/05/17
ConvF(9.71, 9.71, 9.71) @ 835 MHz
Medium parameters used: f = 835 MHz; σ = 0.93 S/m; ε_r = 40.937; ρ = 1000 kg/m^3
Sensor-Surface: 1.4 mm (Mechanical Surface Detection), Sensor-Surface: 0 mm (Fix Surface)

DAE info:
Electronics: DAE4 Sn509 / Calibrated: 2022/07/13

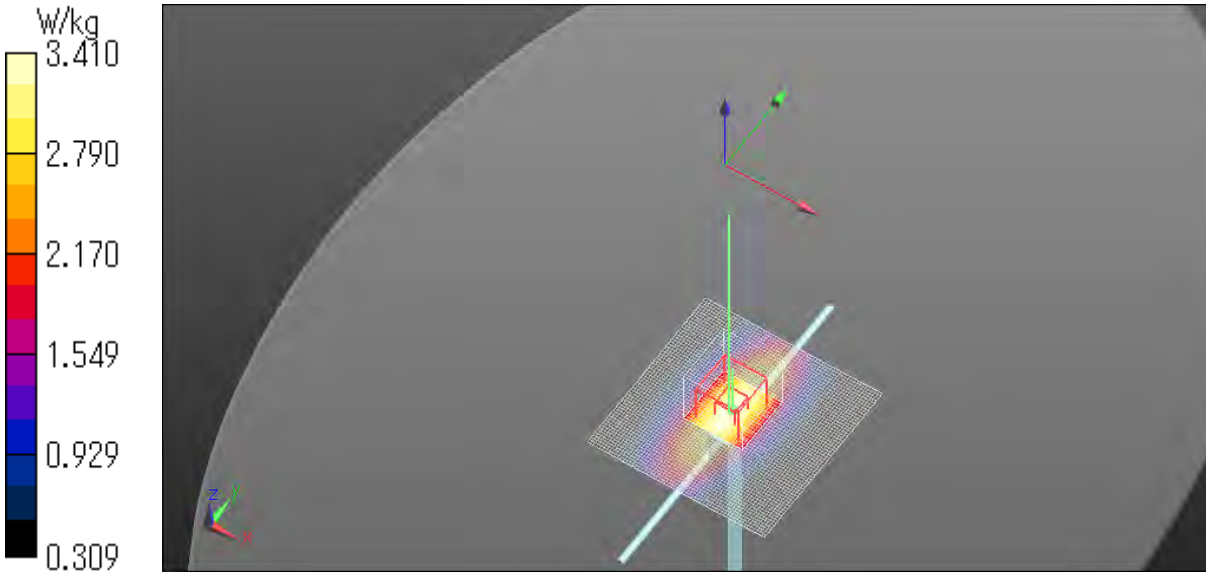
Phantom info:
Phantom: ELI v5.0 (20 deg probe tilt)/Phantom section: Flat Section
Type: QDOVA001BB
Serial: TP:1203
Software info DASY52 52.10.4(1535) SEMCAD X 14.6.14(7501)

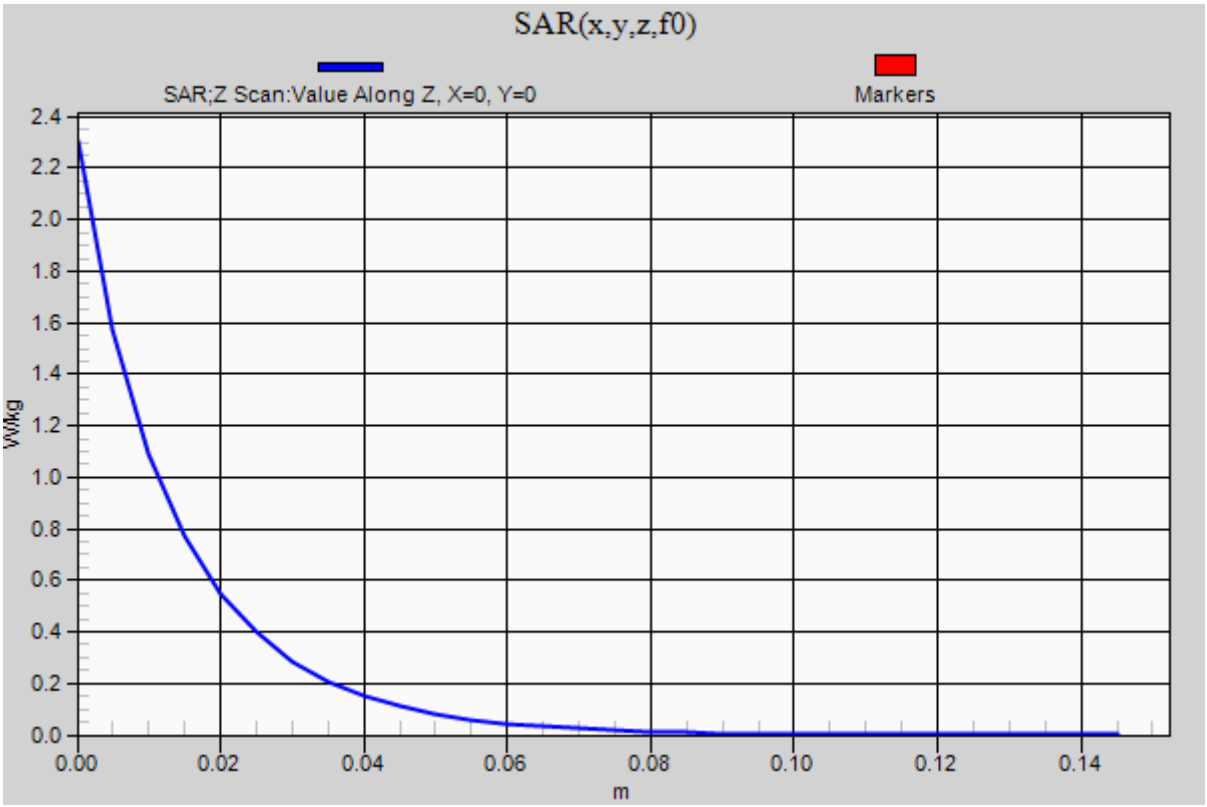
Configuration/250 mW 2/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 3.37 W/kg

Configuration/250 mW 2/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5 mm, dy=5 mm, dz=5 mm
Reference Value = 63.66 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 3.81 W/kg
SAR(1 g) = 2.58 W/kg; SAR(10 g) = 1.69 W/kg
Smallest distance from peaks to all points 3 dB below = 19.2 mm
Ratio of SAR at M2 to SAR at M1 = 67.5 %
Maximum value of SAR (measured) = 3.41 W/kg

Configuration/250 mW 2/Z Scan (1x1x31): Measurement grid: dx=20 mm, dy=20 mm, dz=5 mm
Maximum value of SAR (measured) = 2.30 W/kg

Note: Liquid temp. is kept within the 2 degree.C. during the test.


W/kg
3.410
2.790
2.170
1.549
0.929
0.309


SAR(x,y,z,f0)
SAR;Z Scan:Value Along Z, X=0, Y=0
Markers
W/kg
2.4
2.2
2.0
1.8
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
0.00
0.02
0.04
0.06
0.08
0.10
0.12
0.14
m

20230207 1750 MHz Ambient Temp_22.0 deg.C._Liquid Temp_22.0 deg.C

Communication System info
Communication System: UID 0, _CW (0)
Communication System Band: D1750 (1750.0 MHz)Duty Cycle: 1:1
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

Probe info:
Probe: EX3DV4 - SN3825 / Calibrated: 2022/07/20
ConvF(8.66, 8.66, 8.66) @ 1750 MHz
Medium parameters used: f = 1750 MHz; σ = 1.313 S/m; ε_r = 37.361; ρ = 1000 kg/m^3
Sensor-Surface: 1.4 mm (Mechanical Surface Detection), Sensor-Surface: 0 mm (Fix Surface)

DAE info:
Electronics: DAE4 Sn1369 / Calibrated: 2022/05/09

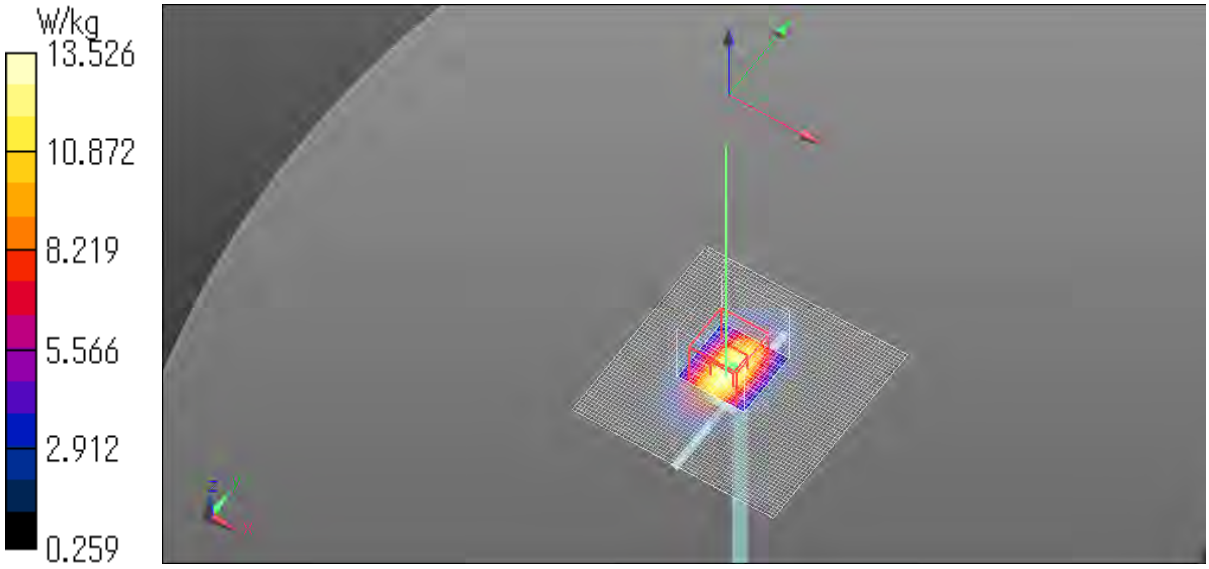
Phantom info:
Phantom: ELI v5.0 TP1207 (30 deg probe tilt)/Phantom section: Flat Section
Type: QDOVA001BB
Serial: TP:1207
Software info DASY52 52.10.4(1535) SEMCAD X 14.6.14(7501)

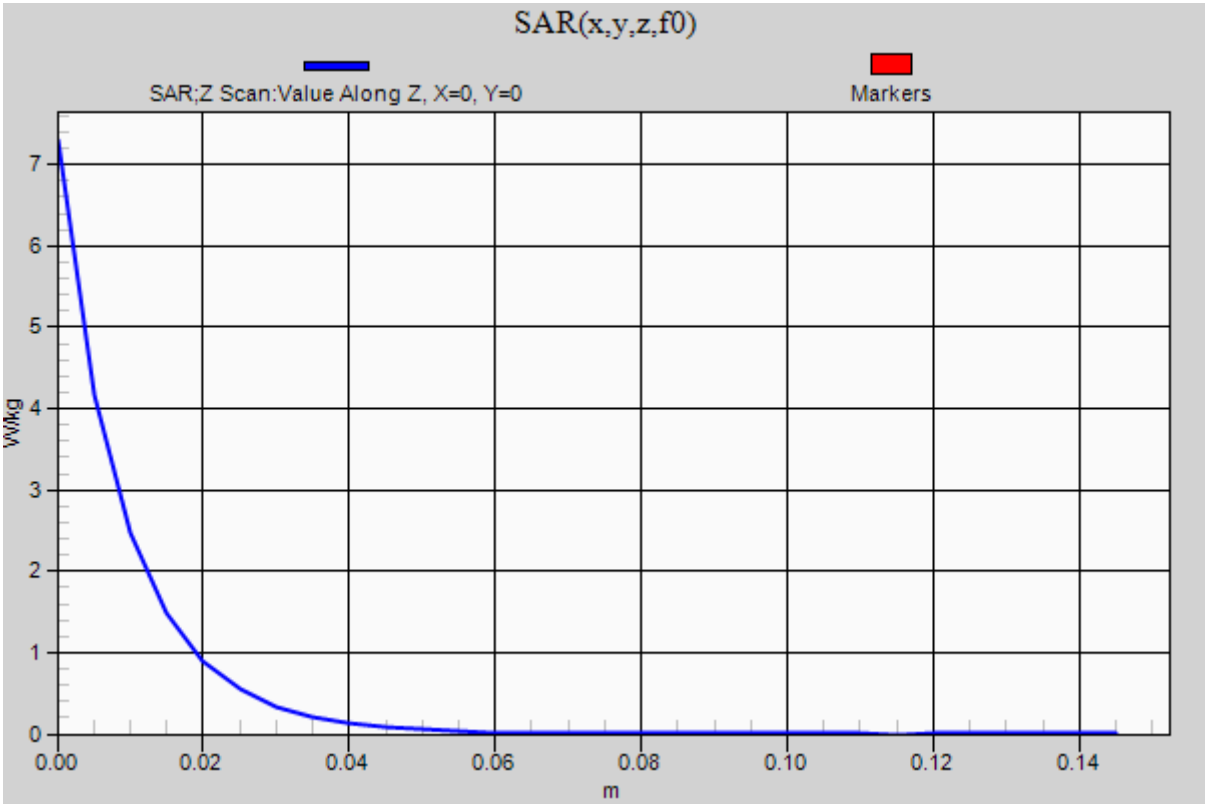
Configuration/250 mW/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 13.2 W/kg

Configuration/250 mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5 mm, dy=5 mm, dz=5 mm
Reference Value = 103.9 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 16.4 W/kg
SAR(1 g) = 8.82 W/kg; SAR(10 g) = 4.65 W/kg (SAR corrected for target medium)
Smallest distance from peaks to all points 3 dB below = 10 mm
Ratio of SAR at M2 to SAR at M1 = 53.8 %
Maximum value of SAR (measured) = 13.5 W/kg

Configuration/250 mW/Z Scan (1x1x31): Measurement grid: dx=20 mm, dy=20 mm, dz=5 mm
Maximum value of SAR (measured) = 7.29 W/kg

Note: Liquid temp. is kept within the 2 degree.C. during the test.


W/kg
13.526
10.872
8.219
5.566
2.912
0.259


SAR(x,y,z,f0)
SAR;Z Scan:Value Along Z, X=0, Y=0
Markers
W/kg
7
6
5
4
3
2
1
0
0.00
0.02
0.04
0.06
0.08
0.10
0.12
0.14
m

20230207 1900 MHz Ambient Temp_22.0 deg.C._Liquid Temp_22.0 deg.C

Communication System info
Communication System: UID 0, _CW (0)
Communication System Band: D1900 (1900.0 MHz)Duty Cycle: 1:1
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

Probe info:
Probe: EX3DV4 - SN3825 / Calibrated: 2022/07/20
ConvF(8.36, 8.36, 8.36) @ 1900 MHz
Medium parameters used: f = 1900 MHz; σ = 1.394 S/m; ε_r = 36.897; ρ = 1000 kg/m^3
Sensor-Surface: 1.4 mm (Mechanical Surface Detection), Sensor-Surface: 0 mm (Fix Surface)

DAE info:
Electronics: DAE4 Sn1369 / Calibrated: 2022/05/09

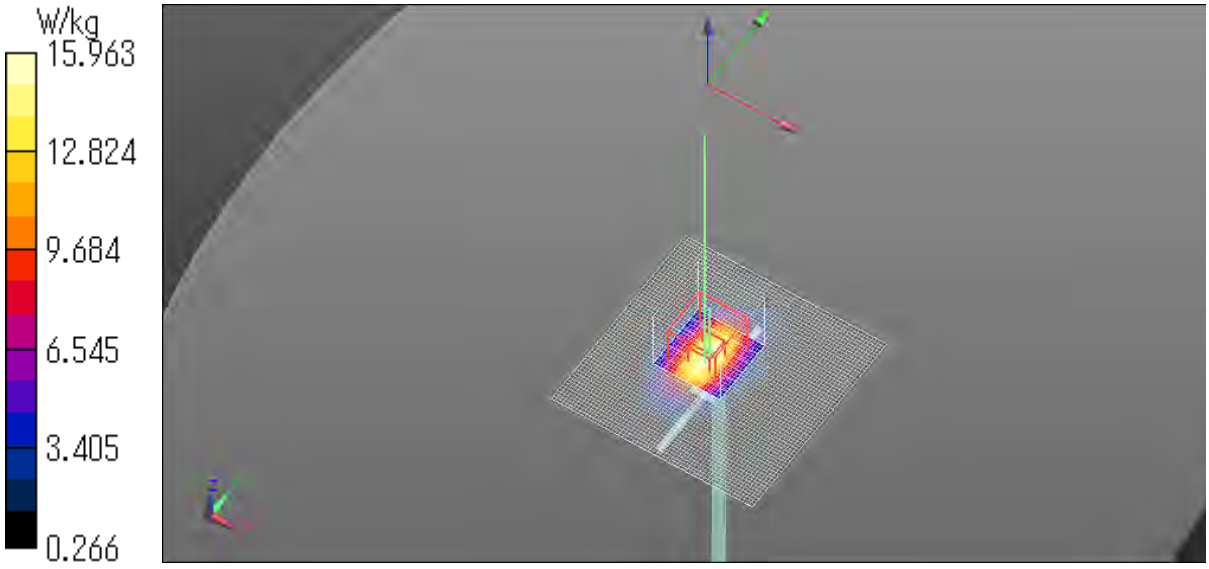
Phantom info:
Phantom: ELI v5.0 TP1207 (30 deg probe tilt)/Phantom section: Flat Section
Type: QDOVA001BB
Serial: TP:1207
Software info DASY52 52.10.4(1535) SEMCAD X 14.6.14(7501)

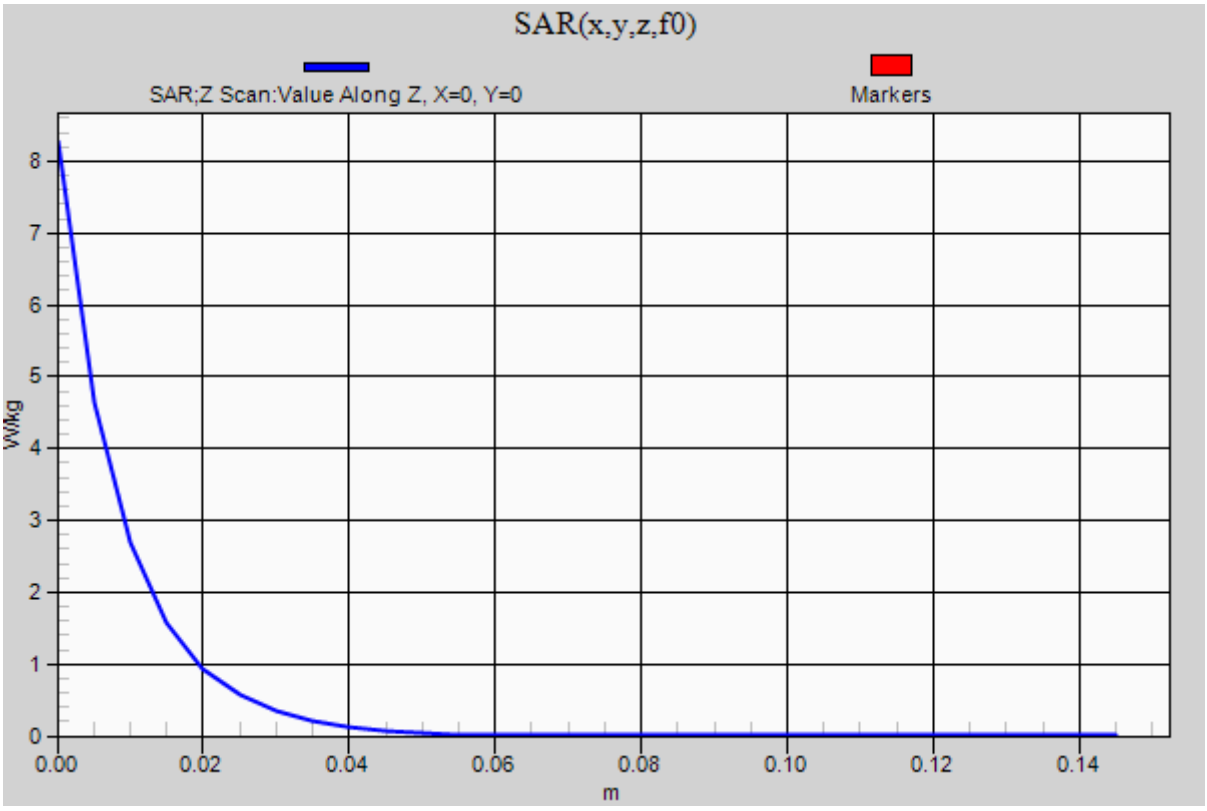
Configuration/250 mW 2/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 15.8 W/kg

Configuration/250 mW 2/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5 mm, dy=5 mm, dz=5 mm
Reference Value = 110.6 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 19.2 W/kg
SAR(1 g) = 10.2 W/kg; SAR(10 g) = 5.29 W/kg (SAR corrected for target medium)
Smallest distance from peaks to all points 3 dB below = 10 mm
Ratio of SAR at M2 to SAR at M1 = 53.4 %
Maximum value of SAR (measured) = 16.0 W/kg

Configuration/250 mW 2/Z Scan (1x1x31): Measurement grid: dx=20 mm, dy=20 mm, dz=5 mm
Maximum value of SAR (measured) = 8.27 W/kg

Note: Liquid temp. is kept within the 2 degree.C. during the test.


W/kg
15.963
12.824
9.684
6.545
3.405
0.266


SAR(x,y,z,f0)
SAR;Z Scan:Value Along Z, X=0, Y=0
Markers
W/kg
8
7
6
5
4
3
2
1
0
0.00
0.02
0.04
0.06
0.08
0.10
0.12
0.14
m

Communication System info
Communication System: UID 0, #CW (0)
Communication System Band: D750 (750.0 MHz)Duty Cycle: 1:1
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

Probe info:
Probe: EX3DV4 - SN3917 / Calibrated: 2022/05/17
ConvF(10.11, 10.11, 10.11) @ 750 MHz
Medium parameters used: f = 750 MHz; σ = 0.886 S/m; ε_r = 40.321; ρ = 1000 kg/m^3
Sensor-Surface: 1.4 mm (Mechanical Surface Detection), Sensor-Surface: 0 mm (Fix Surface)

DAE info:
Electronics: DAE4 Sn509 / Calibrated: 2022/07/13

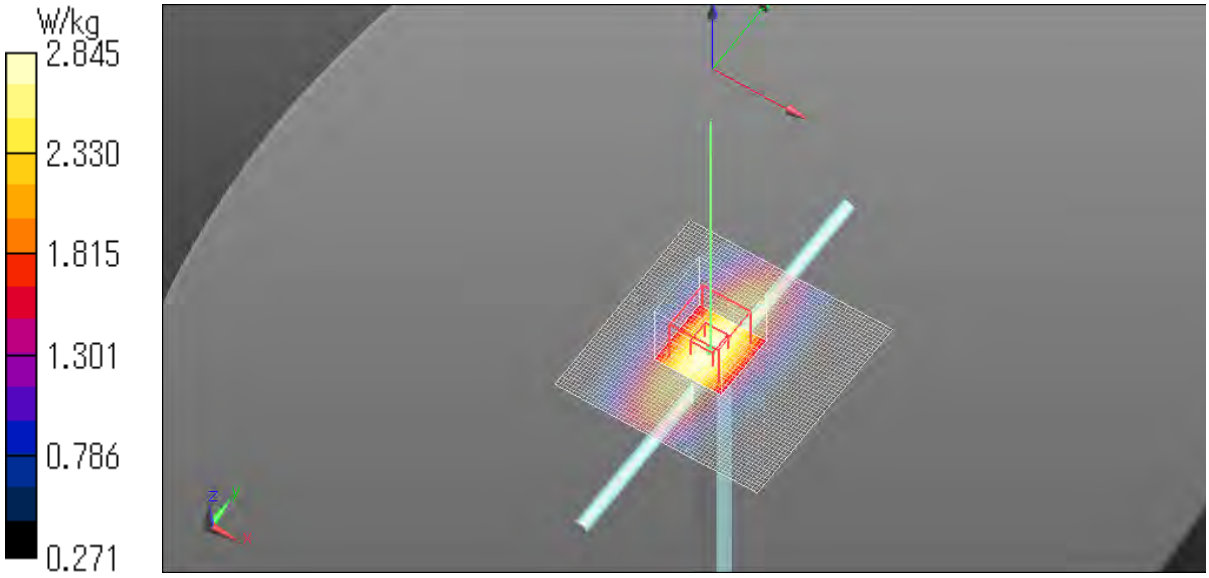
Phantom info:
Phantom: ELI v5.0 (20 deg probe tilt)/Phantom section: Flat Section
Type: QDOVA001BB
Serial: TP:1203
Software info DASY52 52.10.4(1535) SEMCAD X 14.6.14(7501)

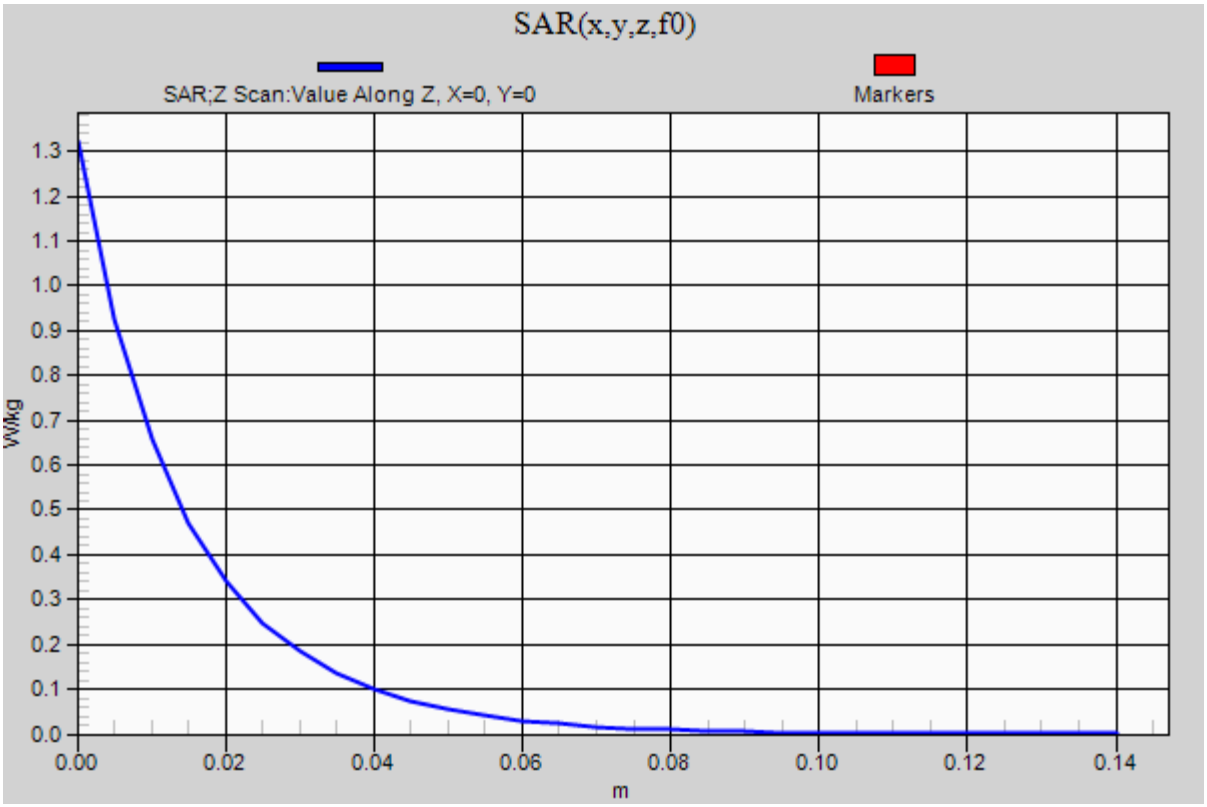
Configuration/250 mW/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 2.76 W/kg

Configuration/250 mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5 mm, dy=5 mm, dz=5 mm
Reference Value = 59.38 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 3.18 W/kg
SAR(1 g) = 2.15 W/kg; SAR(10 g) = 1.42 W/kg
Smallest distance from peaks to all points 3 dB below: Larger than measurement grid (> 15 mm)
Ratio of SAR at M2 to SAR at M1 = 67.4 %
Maximum value of SAR (measured) = 2.84 W/kg

Configuration/250 mW/Z Scan (1x1x31): Measurement grid: dx=20 mm, dy=20 mm, dz=5 mm
Maximum value of SAR (measured) = 1.32 W/kg

Note: Liquid temp. is kept within the 2 degree.C. during the test.


W/kg
2.845
2.330
1.815
1.301
0.786
0.271


SAR(x,y,z,f0)
SAR;Z Scan:Value Along Z, X=0, Y=0
Markers
W/kg
1.3
1.2
1.1
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
0.00
0.02
0.04
0.06
0.08
0.10
0.12
0.14
m

20230210 835 MHz Ambient Temp_22.5 deg.C._Liquid Temp_22.5 deg.C

Communication System info
Communication System: UID 0, #CW (0)
Communication System Band: D835 (835.0 MHz)Duty Cycle: 1:1
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

Probe info:
Probe: EX3DV4 - SN3917 / Calibrated: 2022/05/17
ConvF(9.71, 9.71, 9.71) @ 835 MHz
Medium parameters used: f = 835 MHz; σ = 0.913 S/m; ε_r = 39.993; ρ = 1000 kg/m^3
Sensor-Surface: 1.4 mm (Mechanical Surface Detection), Sensor-Surface: 0 mm (Fix Surface)

DAE info:
Electronics: DAE4 Sn509 / Calibrated: 2022/07/13

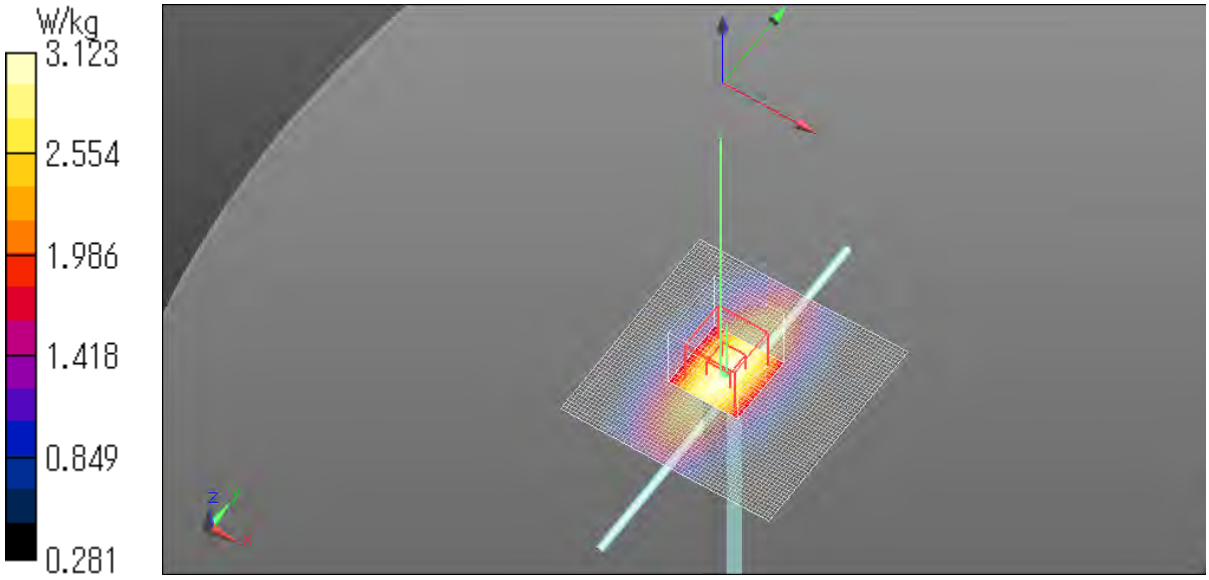
Phantom info:
Phantom: ELI v5.0 (20 deg probe tilt)/Phantom section: Flat Section
Type: QDOVA001BB
Serial: TP:1203
Software info DASY52 52.10.4(1535) SEMCAD X 14.6.14(7501)

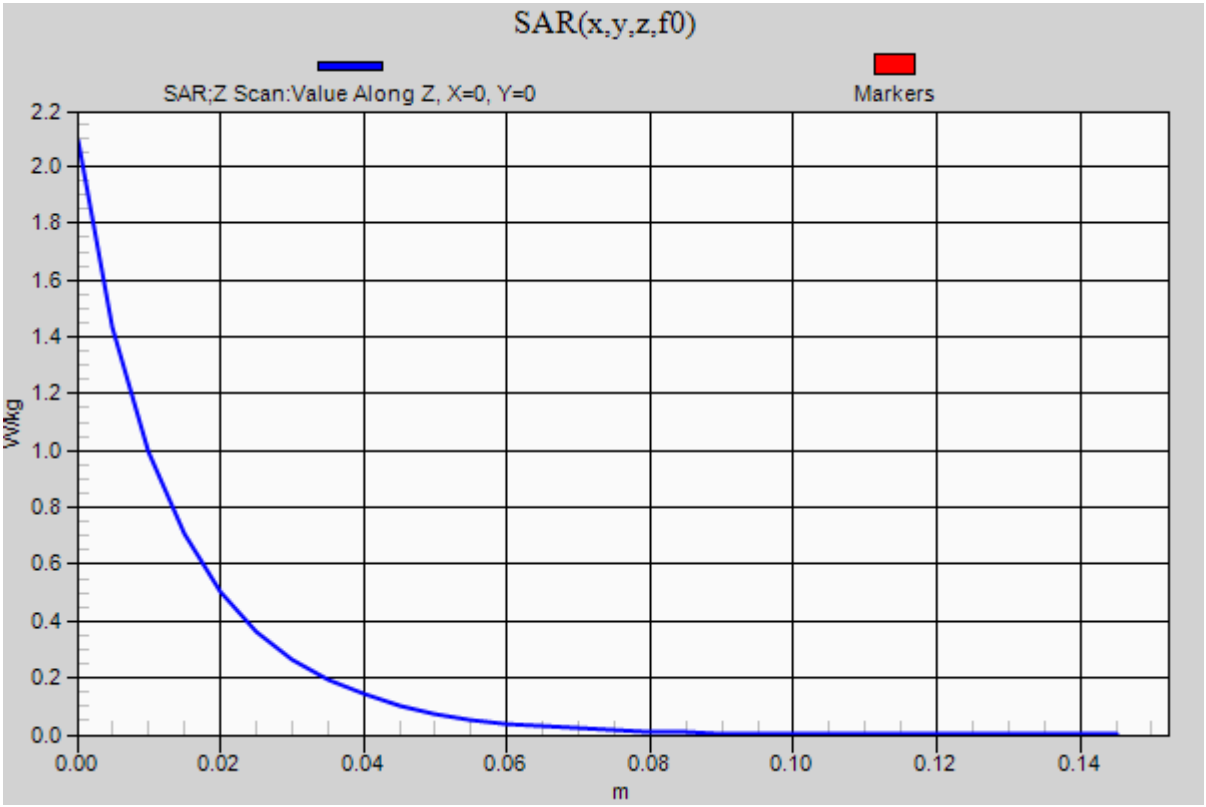
Configuration/250 mW 2/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 3.04 W/kg

Configuration/250 mW 2/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5 mm, dy=5 mm, dz=5 mm
Reference Value = 60.91 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 3.48 W/kg
SAR(1 g) = 2.36 W/kg; SAR(10 g) = 1.55 W/kg
Smallest distance from peaks to all points 3 dB below = 18.6 mm
Ratio of SAR at M2 to SAR at M1 = 67.7 %
Maximum value of SAR (measured) = 3.12 W/kg

Configuration/250 mW 2/Z Scan (1x1x31): Measurement grid: dx=20 mm, dy=20 mm, dz=5 mm
Maximum value of SAR (measured) = 2.09 W/kg

Note: Liquid temp. is kept within the 2 degree.C. during the test.


W/kg
3.123
2.554
1.986
1.418
0.849
0.281


SAR(x,y,z,f0)
SAR;Z Scan:Value Along Z, X=0, Y=0
Markers
W/kg
2.2
2.0
1.8
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
0.00
0.02
0.04
0.06
0.08
0.10
0.12
0.14
m

20230210 1750 MHz Ambient Temp_22.5 deg.C._Liquid Temp_22.5 deg.C

Communication System info
Communication System: UID 0, _CW (0)
Communication System Band: D1750 (1750.0 MHz)Duty Cycle: 1:1
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

Probe info:
Probe: EX3DV4 - SN3917 / Calibrated: 2022/05/17
ConvF(8.4, 8.4, 8.4) @ 1750 MHz
Medium parameters used: f = 1750 MHz; σ = 1.308 S/m; ε_r = 38.591; ρ = 1000 kg/m^3
Sensor-Surface: 1.4 mm (Mechanical Surface Detection), Sensor-Surface: 0 mm (Fix Surface)

DAE info:
Electronics: DAE4 Sn509 / Calibrated: 2022/07/13

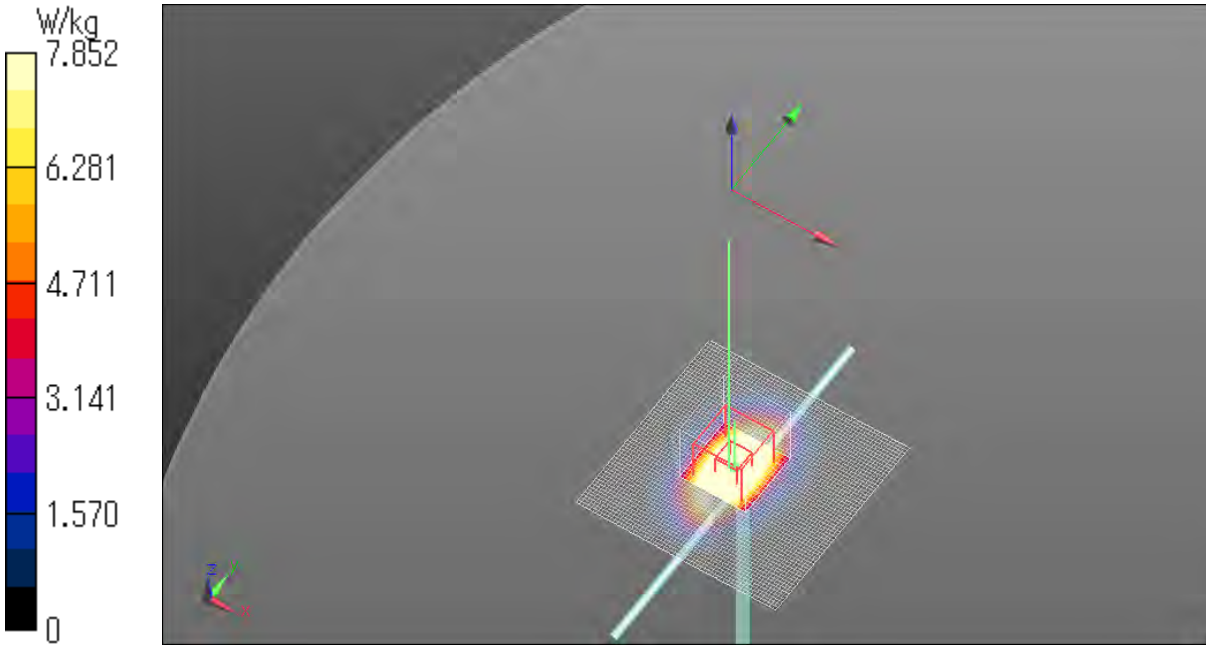
Phantom info:
Phantom: ELI v5.0 (20 deg probe tilt)/Phantom section: Flat Section
Type: QDOVA001BB
Serial: TP:1203
Software info DASY52 52.10.4(1535) SEMCAD X 14.6.14(7501)

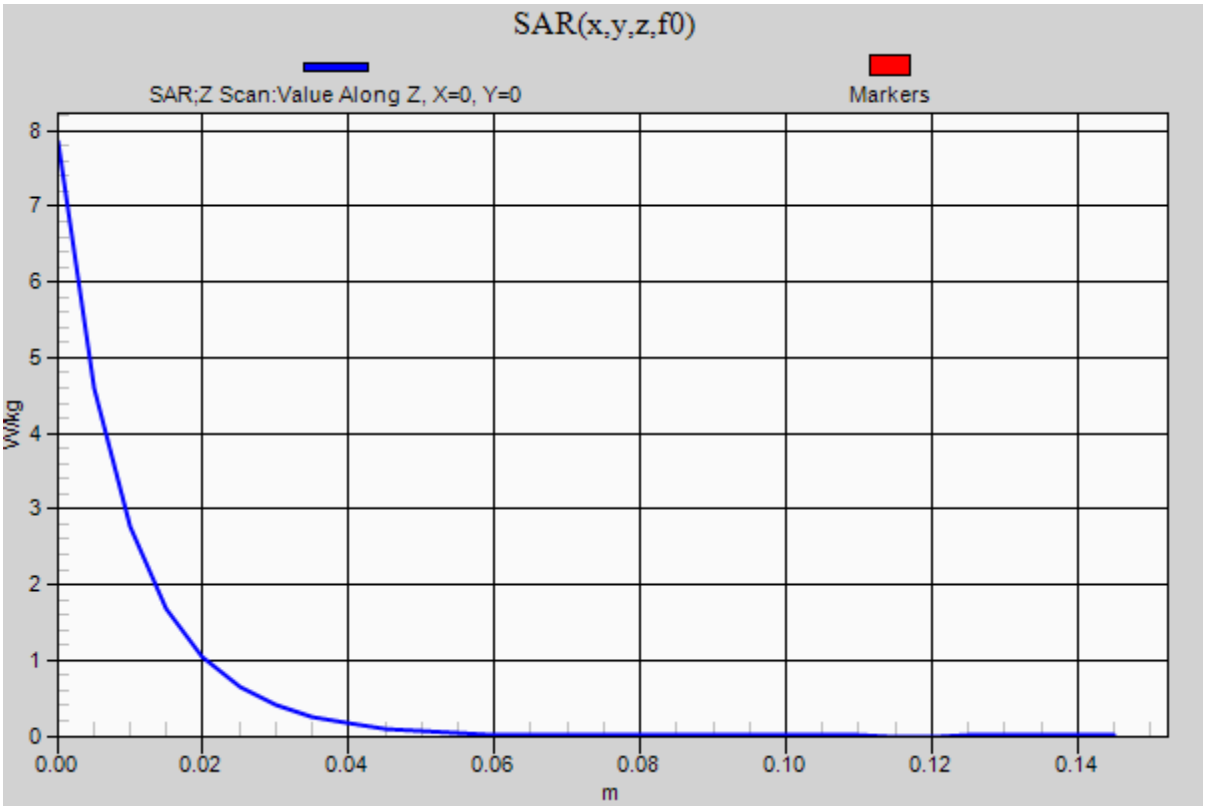
Configuration/250mW 3/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 14.1 W/kg

Configuration/250 mW 3/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5 mm, dy=5 mm, dz=5 mm
Reference Value = 106.9 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 17.8 W/kg
SAR(1 g) = 9.45 W/kg; SAR(10 g) = 5.04 W/kg
Smallest distance from peaks to all points 3 dB below = 10 mm
Ratio of SAR at M2 to SAR at M1 = 53.8 %
Maximum value of SAR (measured) = 14.8 W/kg

Configuration/250 mW 3/Z Scan (1x1x31): Measurement grid: dx=20 mm, dy=20 mm, dz=5 mm
Maximum value of SAR (measured) = 7.85 W/kg

Note: Liquid temp. is kept within the 2 degree.C. during the test.


W/kg
7.852
6.281
4.711
3.141
1.570
0


SAR(x,y,z,f0)
SAR;Z Scan:Value Along Z, X=0, Y=0
Markers
W/kg
8
7
6
5
4
3
2
1
0
0.00
0.02
0.04
0.06
0.08
0.10
0.12
0.14
m

20230210 1900 MHz Ambient Temp_22.5 deg.C._Liquid Temp_22.5 deg.C

Communication System info
Communication System: UID 0, _CW (0)
Communication System Band: D1900 (1900.0 MHz)Duty Cycle: 1:1
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

Probe info:
Probe: EX3DV4 - SN3917 / Calibrated: 2022/05/17
ConvF(8.18, 8.18, 8.18) @ 1900 MHz
Medium parameters used: f = 1900 MHz; σ = 1.387 S/m; ε_r = 38.391; ρ = 1000 kg/m^3
Sensor-Surface: 1.4 mm (Mechanical Surface Detection), Sensor-Surface: 0 mm (Fix Surface)

DAE info:
Electronics: DAE4 Sn509 / Calibrated: 2022/07/13

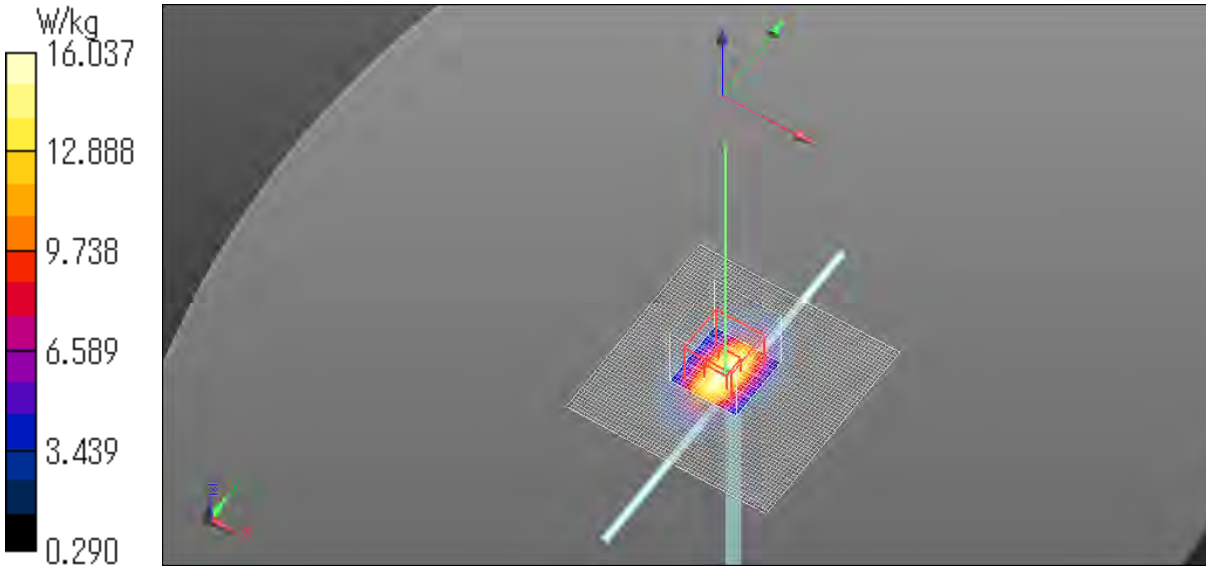
Phantom info:
Phantom: ELI v5.0 (20 deg probe tilt)/Phantom section: Flat Section
Type: QDOVA001BB
Serial: TP:1203
Software info DASY52 52.10.4(1535) SEMCAD X 14.6.14(7501)

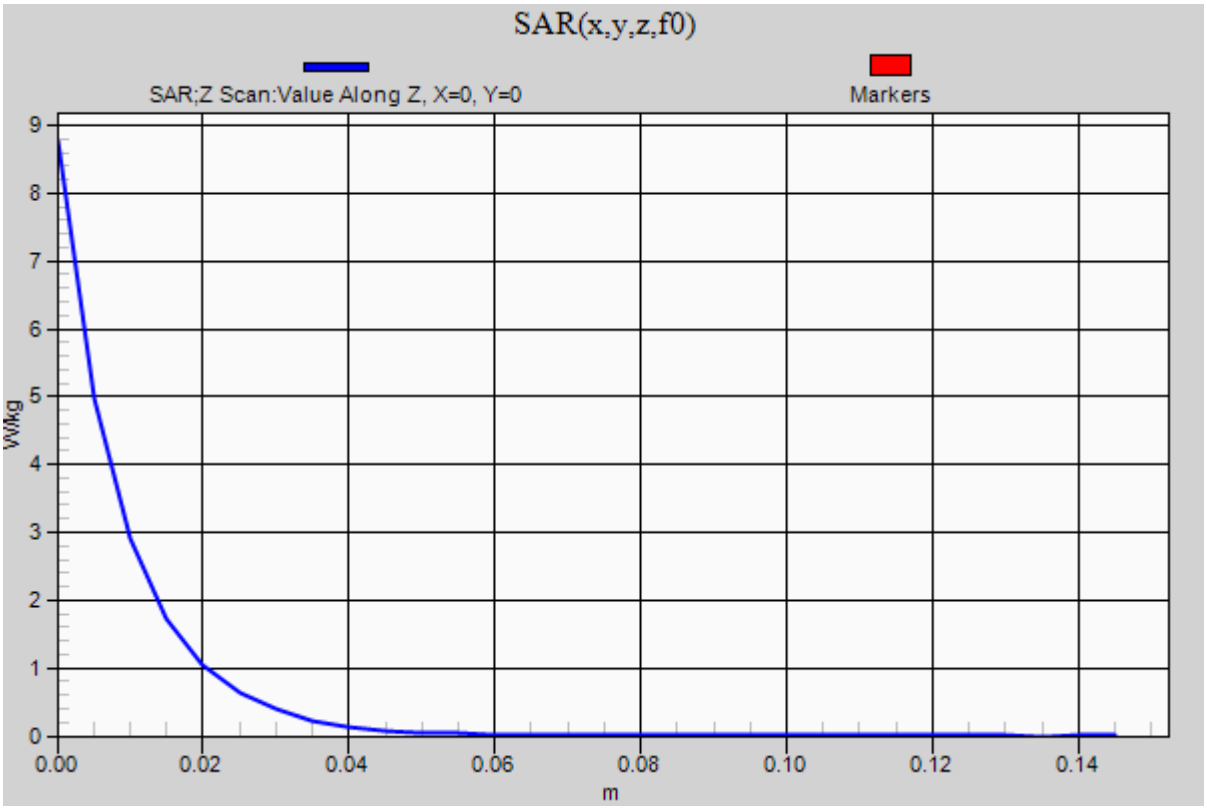
Configuration/250 mW 4/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 15.5 W/kg

Configuration/250 mW 4/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5 mm, dy=5 mm, dz=5 mm
Reference Value = 110.5 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 19.3 W/kg
SAR(1 g) = 10.4 W/kg; SAR(10 g) = 5.41 W/kg
Smallest distance from peaks to all points 3 dB below = 10 mm
Ratio of SAR at M2 to SAR at M1 = 54.2 %
Maximum value of SAR (measured) = 16.0 W/kg

Configuration/250 mW 4/Z Scan (1x1x31): Measurement grid: dx=20 mm, dy=20 mm, dz=5 mm
Maximum value of SAR (measured) = 8.76 W/kg

Note: Liquid temp. is kept within the 2 degree.C. during the test.


W/kg
16.037
12.888
9.738
6.589
3.439
0.290


SAR(x,y,z,f0)
SAR;Z Scan:Value Along Z, X=0, Y=0
Markers
W/kg
9
8
7
6
5
4
3
2
1
0
0.00
0.02
0.04
0.06
0.08
0.10
0.12
0.14
m

20230213 3500 MHz Ambient Temp_19.3 deg.C._Liquid Temp_19.0 deg.C

Communication System info
Communication System: UID 0, _CW (0)
Communication System Band: D3500 (3500.0 MHz)Duty Cycle: 1:1
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

Probe info:
Probe: EX3DV4 - SN3825 / Calibrated: 2022/07/20
ConvF(6.63, 6.63, 6.63) @ 3500 MHz
Medium parameters used: f = 3500 MHz; σ = 2.771 S/m; ε_r = 38.999; ρ = 1000 kg/m^3
Sensor-Surface: 1.4 mm (Mechanical Surface Detection)

DAE info:
Electronics: DAE4 Sn1369 / Calibrated: 2022/05/09

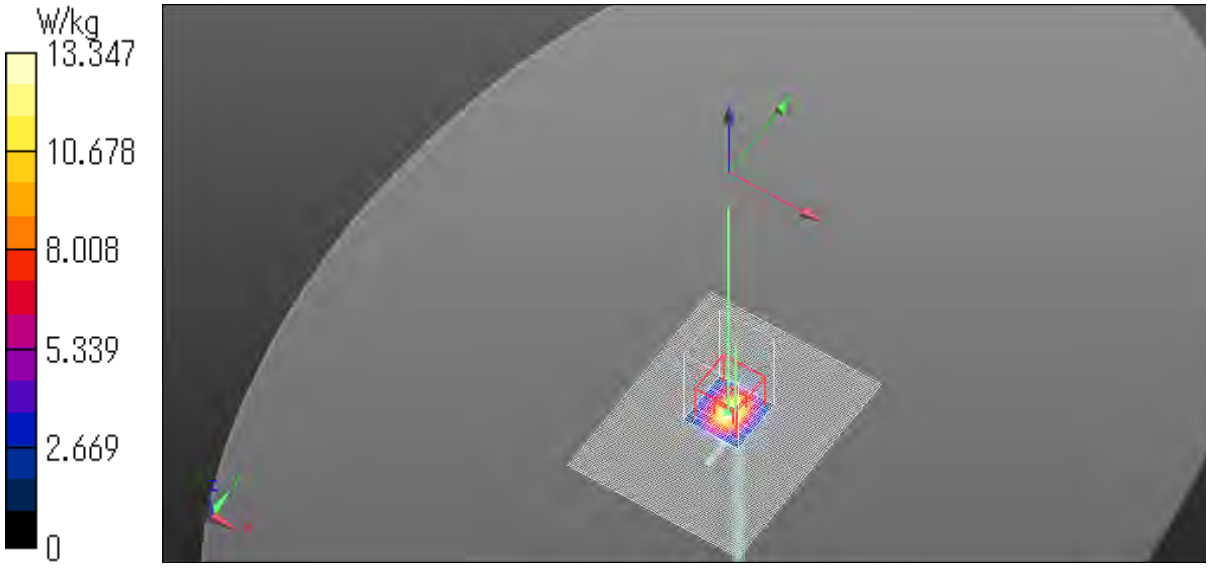
Phantom info:
Phantom: ELI v5.0 TP1207 (30 deg probe tilt)/Phantom section: Flat Section
Type: QDOVA001BB
Serial: TP:1207
Software info DASY52 52.10.4(1535) SEMCAD X 14.6.14(7501)

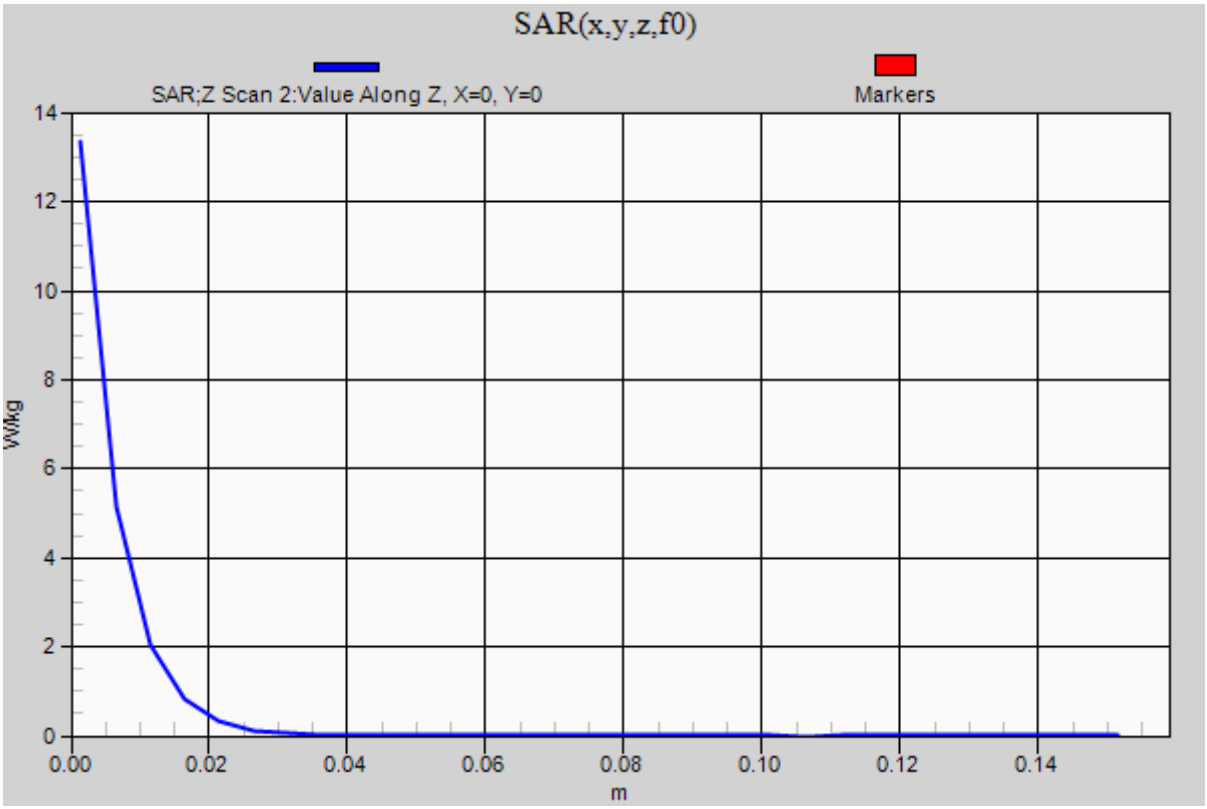
SPC/3500 MHz/Area Scan (81x101x1): Interpolated grid: dx=1.100 mm, dy=1.100 mm
Maximum value of SAR (interpolated) = 13.7 W/kg

SPC/3500 MHz/Zoom Scan (8x8x9)/Cube 0: Measurement grid: dx=4 mm, dy=4 mm, dz=1.4 mm
Reference Value = 72.94 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 17.8 W/kg
SAR(1 g) = 6.91 W/kg; SAR(10 g) = 2.67 W/kg
Smallest distance from peaks to all points 3 dB below = 8.4 mm
Ratio of SAR at M2 to SAR at M1 = 75.9 %
Maximum value of SAR (measured) = 12.9 W/kg

SPC/3500 MHz/Z Scan 2 (1x1x31): Measurement grid: dx=20 mm, dy=20 mm, dz=5 mm
Maximum value of SAR (measured) = 13.3 W/kg

Note: Liquid temp. is kept within the 2 degree.C. during the test.


W/kg
13.347
10.678
8.008
5.339
2.669
0


SAR(x,y,z,f0)
SAR;Z Scan 2:Value Along Z, X=0, Y=0
Markers
W/kg
14
12
10
8
6
4
2
0
0.00
0.02
0.04
0.06
0.08
0.10
0.12
0.14
m

20230215 750 MHz Ambient Temp_22.0 deg.C._Liquid Temp_22.0 deg.C

Communication System info
Communication System: UID 0, #CW (0)
Communication System Band: D750 (750.0 MHz)Duty Cycle: 1:1
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

Probe info:
Probe: EX3DV4 - SN3825 / Calibrated: 2022/07/20
ConvF(9.83, 9.83, 9.83) @ 750 MHz
Medium parameters used: f = 750 MHz; σ = 0.908 S/m; ε_r = 43.105; ρ = 1000 kg/m^3
Sensor-Surface: 1.4 mm (Mechanical Surface Detection), Sensor-Surface: 0 mm (Fix Surface)

DAE info:
Electronics: DAE4 Sn1369 / Calibrated: 2022/05/09

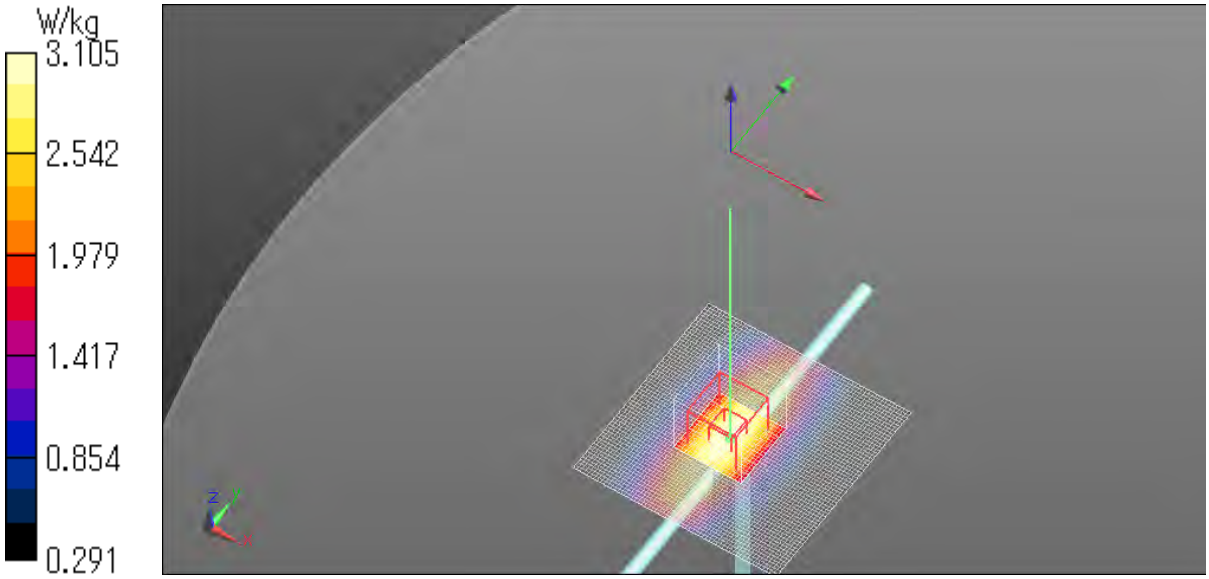
Phantom info:
Phantom: ELI v5.0 (20 deg probe tilt)/Phantom section: Flat Section
Type: QDOVA001BB
Serial: TP:1203
Software info DASY52 52.10.3(1513) SEMCAD X 14.6.13(7474)

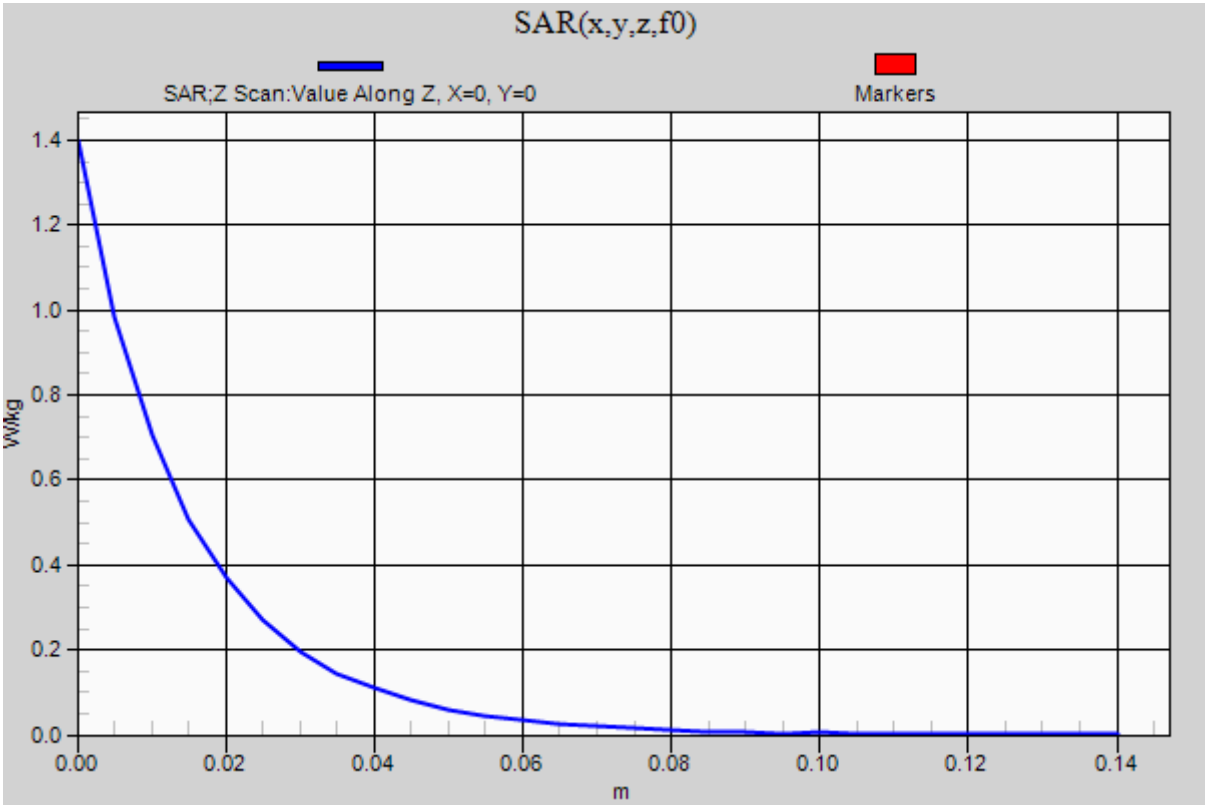
Configuration/250 mW/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 3.05 W/kg

Configuration/250 mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5 mm, dy=5 mm, dz=5 mm
Reference Value = 60.90 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 3.53 W/kg
SAR(1 g) = 2.31 W/kg; SAR(10 g) = 1.52 W/kg
Smallest distance from peaks to all points 3 dB below = 21.3 mm
Ratio of SAR at M2 to SAR at M1 = 65.5 %
Maximum value of SAR (measured) = 3.11 W/kg

Configuration/250 mW/Z Scan (1x1x31): Measurement grid: dx=20 mm, dy=20 mm, dz=5 mm
Maximum value of SAR (measured) = 1.40 W/kg

Note: Liquid temp. is kept within the 2 degree.C. during the test.


W/kg
3.105
2.542
1.979
1.417
0.854
0.291


SAR(x,y,z,f0)
SAR;Z Scan:Value Along Z, X=0, Y=0
Markers
W/kg
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
0.00
0.02
0.04
0.06
0.08
0.10
0.12
0.14
m

20230215 835 MHz Ambient Temp_22.0 deg.C._Liquid Temp_22.0 deg.C

Communication System info
Communication System: UID 0, #CW (0)
Communication System Band: D835 (835.0 MHz)Duty Cycle: 1:1
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

Probe info:
Probe: EX3DV4 - SN3825 / Calibrated: 2022/07/20
ConvF(9.57, 9.57, 9.57) @ 835 MHz
Medium parameters used: f = 835 MHz; σ = 0.951 S/m; ε_r = 42.953; ρ = 1000 kg/m^3
Sensor-Surface: 1.4 mm (Mechanical Surface Detection), Sensor-Surface: 0 mm (Fix Surface)

DAE info:
Electronics: DAE4 Sn1369 / Calibrated: 2022/05/09

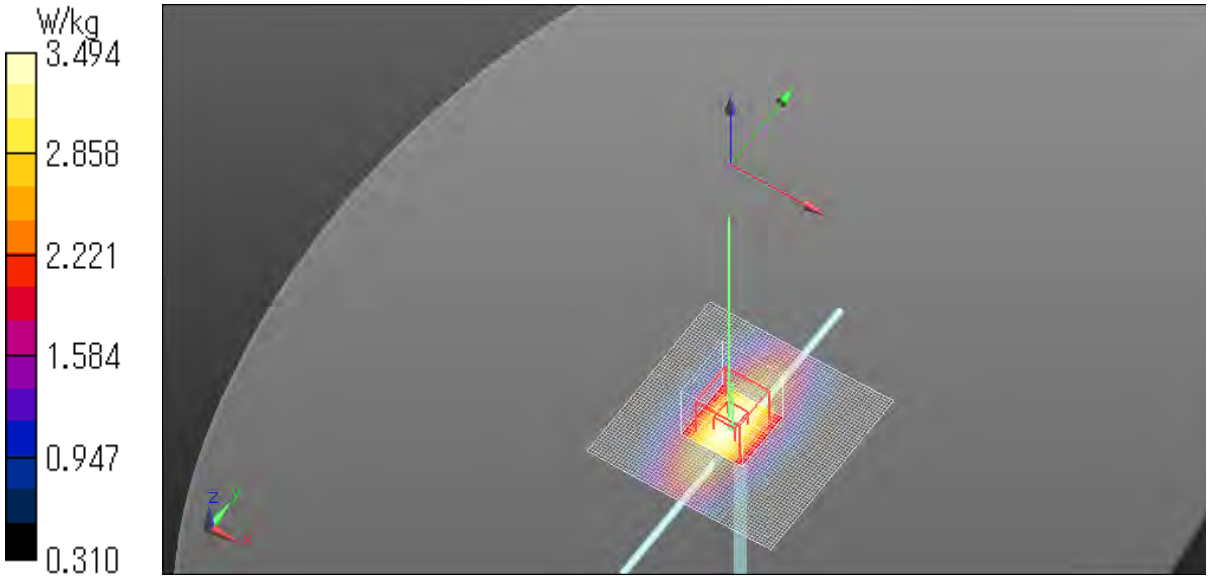
Phantom info:
Phantom: ELI v5.0 (20 deg probe tilt)/Phantom section: Flat Section
Type: QDOVA001BB
Serial: TP:1203
Software info DASY52 52.10.3(1513) SEMCAD X 14.6.13(7474)

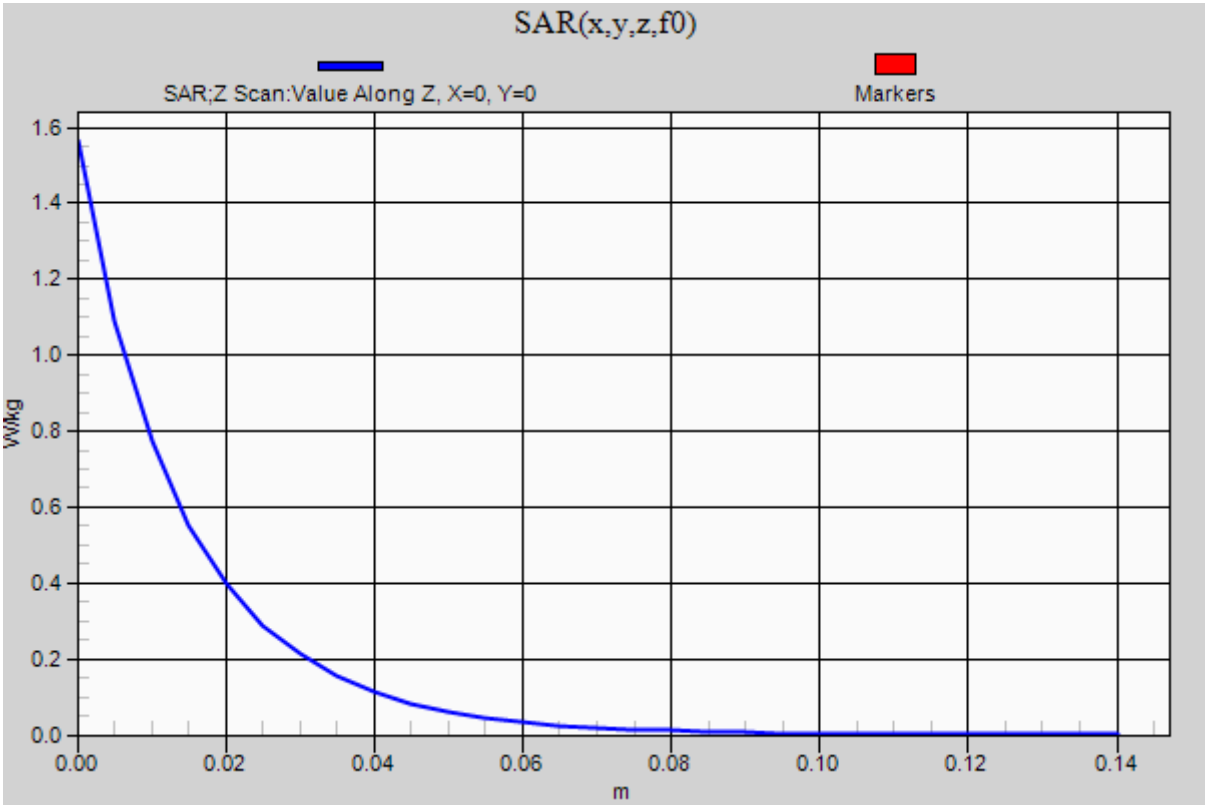
Configuration/250 mW 2/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 3.44 W/kg

Configuration/250 mW 2/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5 mm, dy=5 mm, dz=5 mm
Reference Value = 62.96 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 3.97 W/kg
SAR(1 g) = 2.59 W/kg; SAR(10 g) = 1.69 W/kg
Smallest distance from peaks to all points 3 dB below = 19.8 mm
Ratio of SAR at M2 to SAR at M1 = 65.5 %
Maximum value of SAR (measured) = 3.49 W/kg

Configuration/250 mW 2/Z Scan (1x1x31): Measurement grid: dx=20 mm, dy=20 mm, dz=5 mm
Maximum value of SAR (measured) = 1.56 W/kg

Note: Liquid temp. is kept within the 2 degree.C. during the test.


W/kg
3.494
2.858
2.221
1.584
0.947
0.310


SAR(x,y,z,f0)
SAR;Z Scan:Value Along Z, X=0, Y=0
Markers
W/kg
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
0.00
0.02
0.04
0.06
0.08
0.10
0.12
0.14
m

20230215 1750 MHz Ambient Temp_22.0 deg.C._Liquid Temp_22.0 deg.C

Communication System info
Communication System: UID 0, _CW (0)
Communication System Band: D1750 (1750.0 MHz)Duty Cycle: 1:1
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

Probe info:
Probe: EX3DV4 - SN3825 / Calibrated: 2022/07/20
ConvF(8.66, 8.66, 8.66) @ 1750 MHz
Medium parameters used: f = 1750 MHz; σ = 1.343 S/m; ε_r = 40.836; ρ = 1000 kg/m^3
Sensor-Surface: 1.4 mm (Mechanical Surface Detection), Sensor-Surface: 0 mm (Fix Surface)

DAE info:
Electronics: DAE4 Sn1369 / Calibrated: 2022/05/09

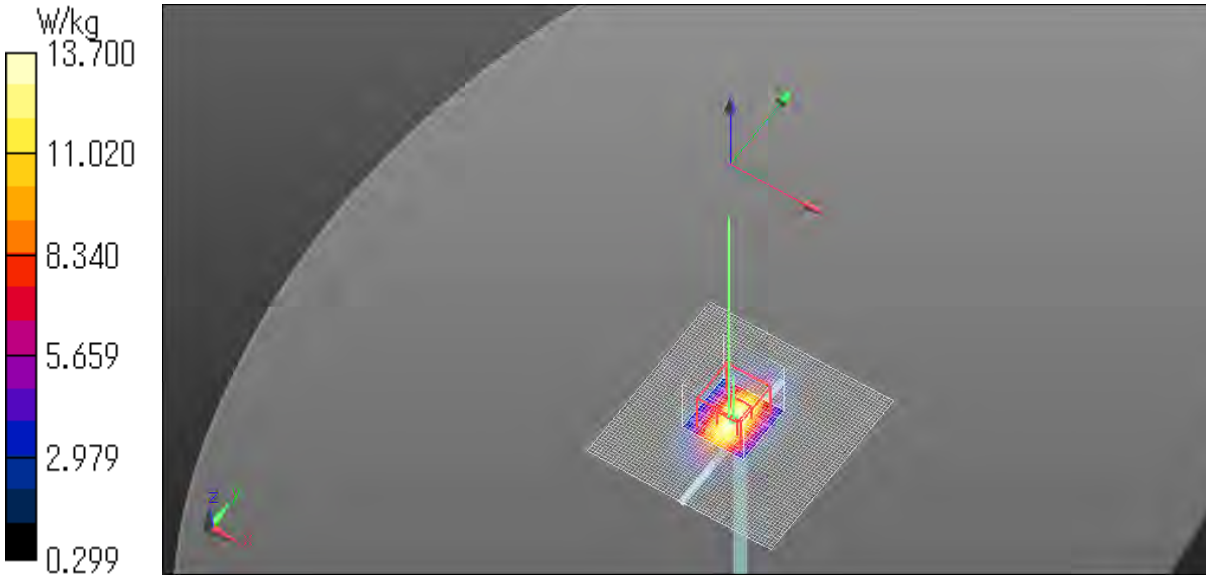
Phantom info:
Phantom: ELI v5.0 (20 deg probe tilt)/Phantom section: Flat Section
Type: QDOVA001BB
Serial: TP:1203
Software info DASY52 52.10.3(1513) SEMCAD X 14.6.13(7474)

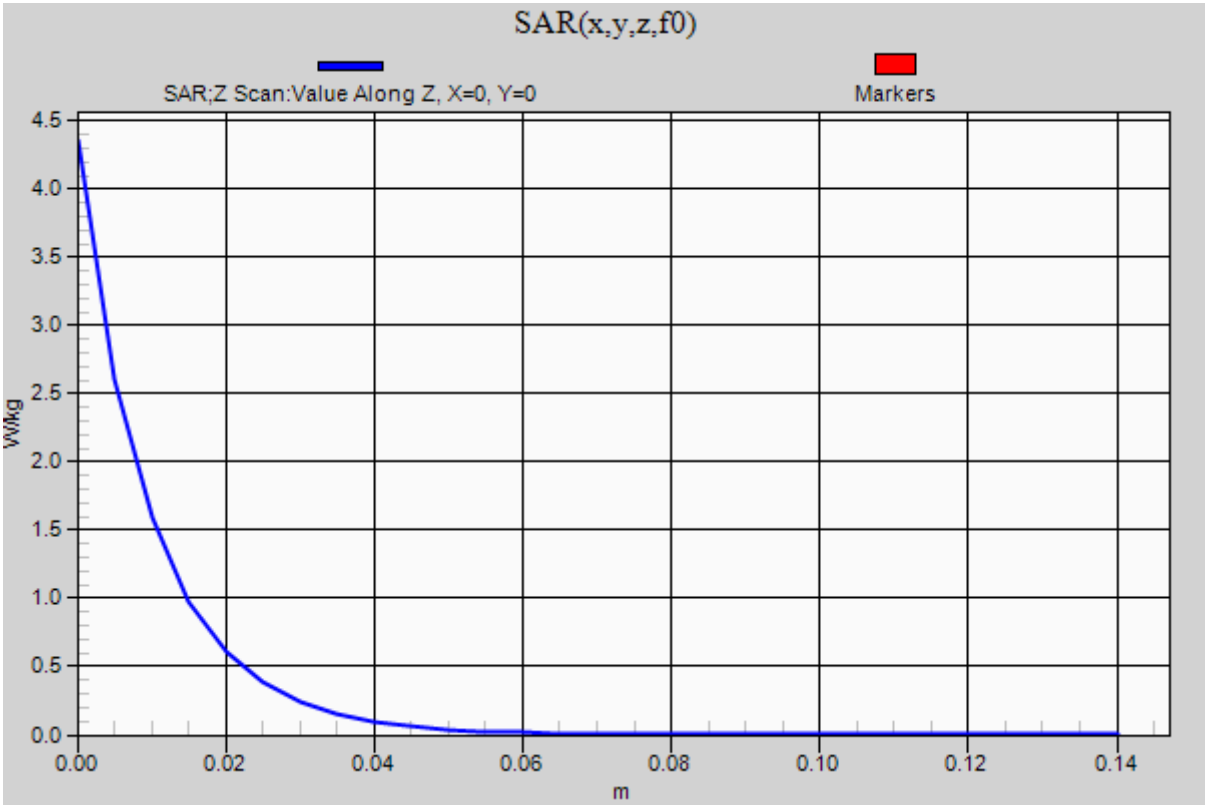
Configuration/250 mW 3/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 13.2 W/kg

Configuration/250 mW 3/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5 mm, dy=5 mm, dz=5 mm
Reference Value = 103.8 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 16.4 W/kg
SAR(1 g) = 8.84 W/kg; SAR(10 g) = 4.72 W/kg
Smallest distance from peaks to all points 3 dB below = 10 mm
Ratio of SAR at M2 to SAR at M1 = 54.7 %
Maximum value of SAR (measured) = 13.7 W/kg

Configuration/250 mW 3/Z Scan (1x1x31): Measurement grid: dx=20 mm, dy=20 mm, dz=5 mm
Maximum value of SAR (measured) = 4.35 W/kg

Note: Liquid temp. is kept within the 2 degree.C. during the test.


W/kg
13.700
11.020
8.340
5.659
2.979
0.299


SAR(x,y,z,f0)
SAR;Z Scan:Value Along Z, X=0, Y=0
Markers
W/kg
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.00
0.02
0.04
0.06
0.08
0.10
0.12
0.14
m

20230215 1900 MHz Ambient Temp_22.0 deg.C._Liquid Temp_22.0 deg.C

Communication System info
Communication System: UID 0, _CW (0)
Communication System Band: D1900 (1900.0 MHz)Duty Cycle: 1:1
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

Probe info:
Probe: EX3DV4 - SN3825 / Calibrated: 2022/07/20
ConvF(8.36, 8.36, 8.36) @ 1900 MHz
Medium parameters used: f = 1900 MHz; σ = 1.425 S/m; ε_r = 40.547; ρ = 1000 kg/m^3
Sensor-Surface: 1.4 mm (Mechanical Surface Detection), Sensor-Surface: 0 mm (Fix Surface)

DAE info:
Electronics: DAE4 Sn1369 / Calibrated: 2022/05/09

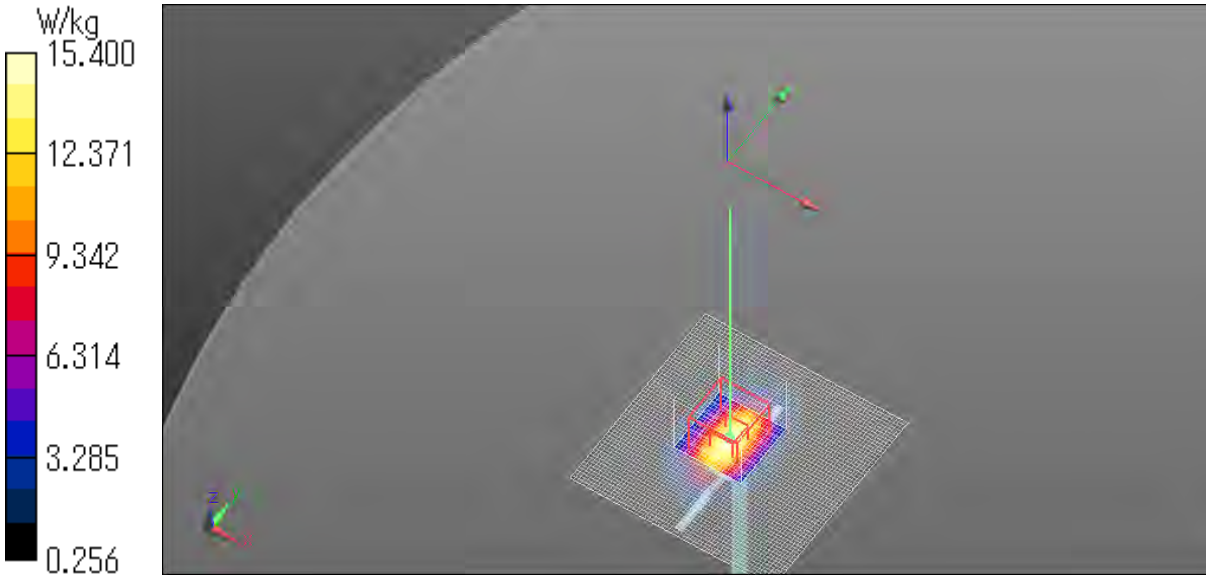
Phantom info:
Phantom: ELI v5.0 (20 deg probe tilt)/Phantom section: Flat Section
Type: QDOVA001BB
Serial: TP:1203
Software info DASY52 52.10.3(1513) SEMCAD X 14.6.13(7474)

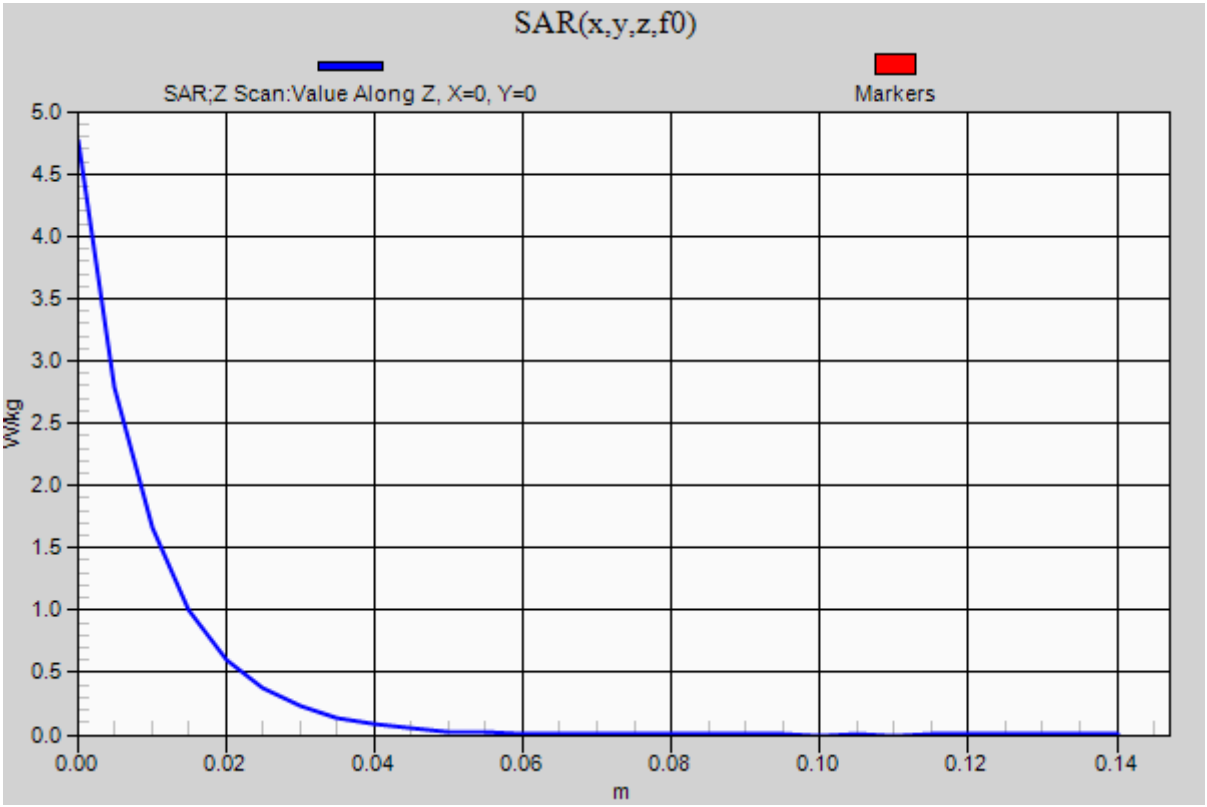
Configuration/250 mW 4/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 14.8 W/kg

Configuration/250 mW 4/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5 mm, dy=5 mm, dz=5 mm
Reference Value = 107.5 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 18.6 W/kg
SAR(1 g) = 9.95 W/kg; SAR(10 g) = 5.18 W/kg
Smallest distance from peaks to all points 3 dB below = 10 mm
Ratio of SAR at M2 to SAR at M1 = 54.2 %
Maximum value of SAR (measured) = 15.4 W/kg

Configuration/250 mW 4/Z Scan (1x1x31): Measurement grid: dx=20 mm, dy=20 mm, dz=5 mm
Maximum value of SAR (measured) = 4.77 W/kg

Note: Liquid temp. is kept within the 2 degree.C. during the test.


W/kg
15.400
12.371
9.342
6.314
3.285
0.256


SAR(x,y,z,f0)
SAR;Z Scan:Value Along Z, X=0, Y=0
Markers
W/kg
5.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.00
0.02
0.04
0.06
0.08
0.10
0.12
0.14
m

20230215 750 MHz Ambient Temp_22.8 deg.C._Liquid Temp_22.5 deg.C

Communication System info
Communication System: UID 0, #CW (0)
Communication System Band: D750 (750.0 MHz)Duty Cycle: 1:1
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

Probe info:
Probe: EX3DV4 - SN3917 / Calibrated: 2022/05/17
ConvF(10.11, 10.11, 10.11) @ 750 MHz
Medium parameters used: f = 750 MHz; σ = 0.877 S/m; ε_r = 41.702; ρ = 1000 kg/m^3
Sensor-Surface: 1.4 mm (Mechanical Surface Detection), Sensor-Surface: 0 mm (Fix Surface)

DAE info:
Electronics: DAE4 Sn509 / Calibrated: 2022/07/13

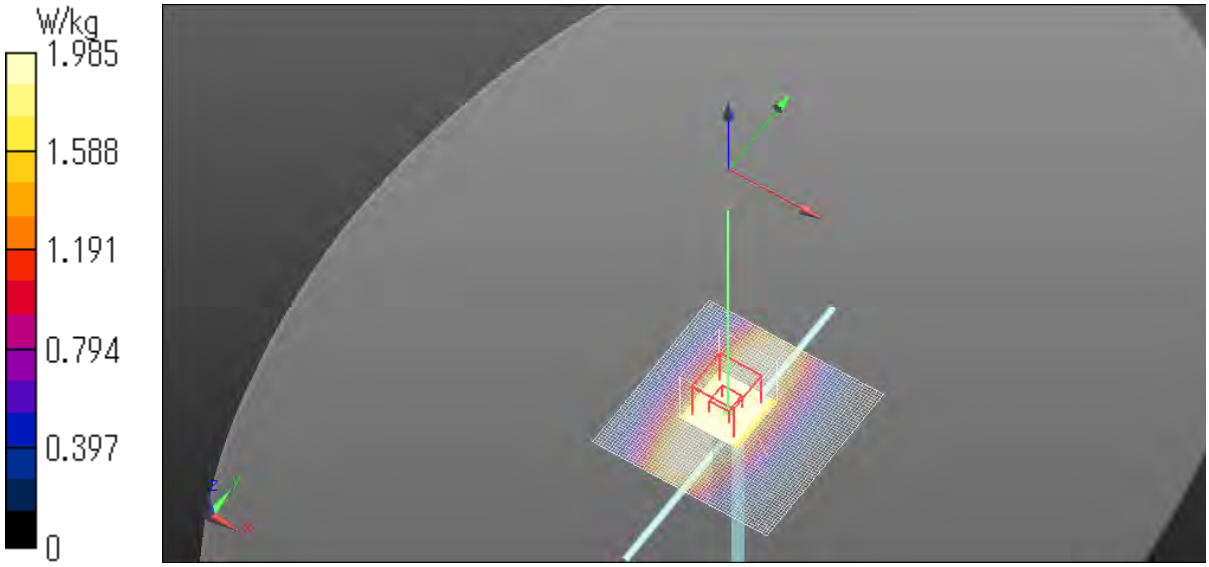
Phantom info:
Phantom: ELI v5.0 TP1207 (30 deg probe tilt)/Phantom section: Flat Section
Type: QDOVA001BB
Serial: TP:1207
Software info DASY52 52.10.4(1535) SEMCAD X 14.6.14(7501)

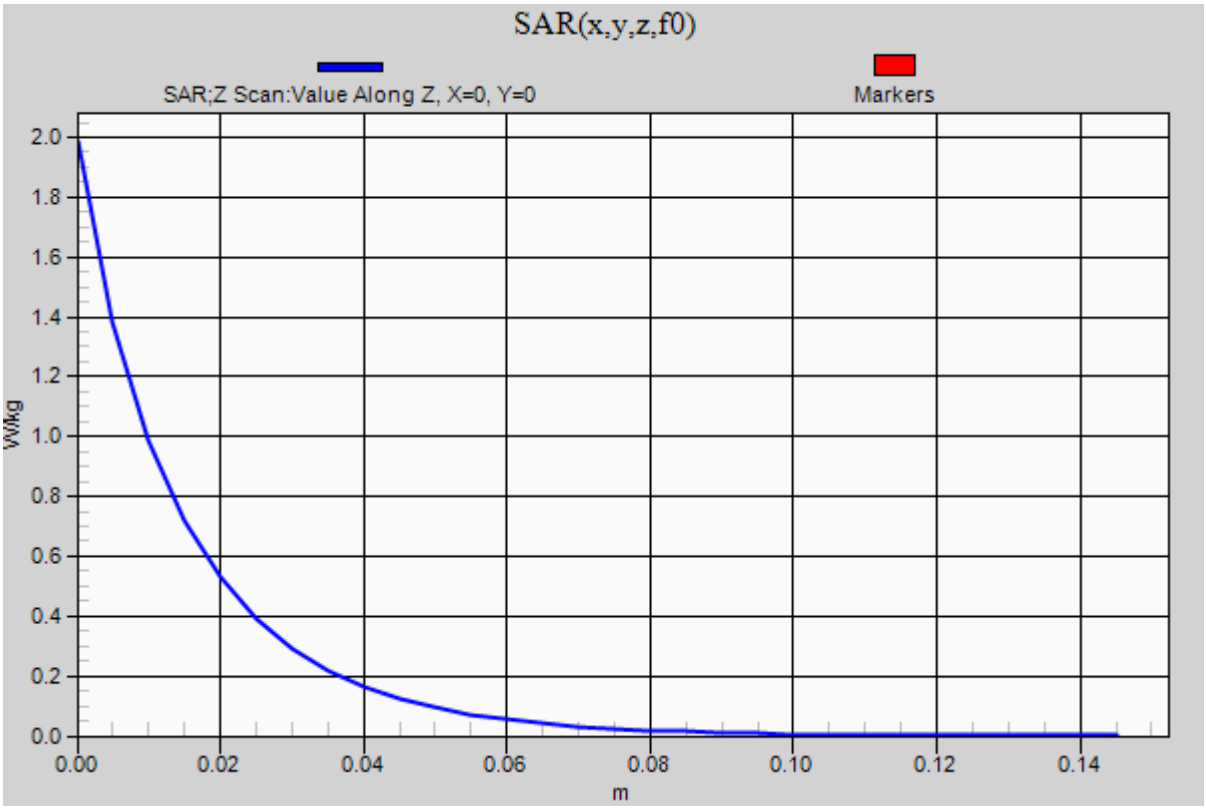
Configuration/250 mW/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 2.81 W/kg

Configuration/250 mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5 mm, dy=5 mm, dz=5 mm
Reference Value = 60.34 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 3.18 W/kg
SAR(1 g) = 2.23 W/kg; SAR(10 g) = 1.5 W/kg (SAR corrected for target medium)
Smallest distance from peaks to all points 3 dB below: Larger than measurement grid (> 15 mm)
Ratio of SAR at M2 to SAR at M1 = 69.3 %
Maximum value of SAR (measured) = 2.86 W/kg

Configuration/250 mW/Z Scan (1x1x31): Measurement grid: dx=20 mm, dy=20 mm, dz=5 mm
Maximum value of SAR (measured) = 1.98 W/kg

Note: Liquid temp. is kept within the 2 degree.C. during the test.


W/kg
1.985
1.588
1.191
0.794
0.397
0


SAR(x,y,z,f0)
SAR;Z Scan:Value Along Z, X=0, Y=0
Markers
W/kg
2.0
1.8
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
0.00
0.02
0.04
0.06
0.08
0.10
0.12
0.14
m

20230215 835 MHz Ambient Temp_22.8 deg.C._Liquid Temp_22.5 deg.C

Communication System info
Communication System: UID 0, #CW (0)
Communication System Band: D835 (835.0 MHz)Duty Cycle: 1:1
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

Probe info:
Probe: EX3DV4 - SN3917 / Calibrated: 2022/05/17
ConvF(9.71, 9.71, 9.71) @ 835 MHz
Medium parameters used: f = 835 MHz; σ = 0.891 S/m; ε_r = 41.663; ρ = 1000 kg/m^3
Sensor-Surface: 1.4 mm (Mechanical Surface Detection), Sensor-Surface: 0 mm (Fix Surface)

DAE info:
Electronics: DAE4 Sn509 / Calibrated: 2022/07/13

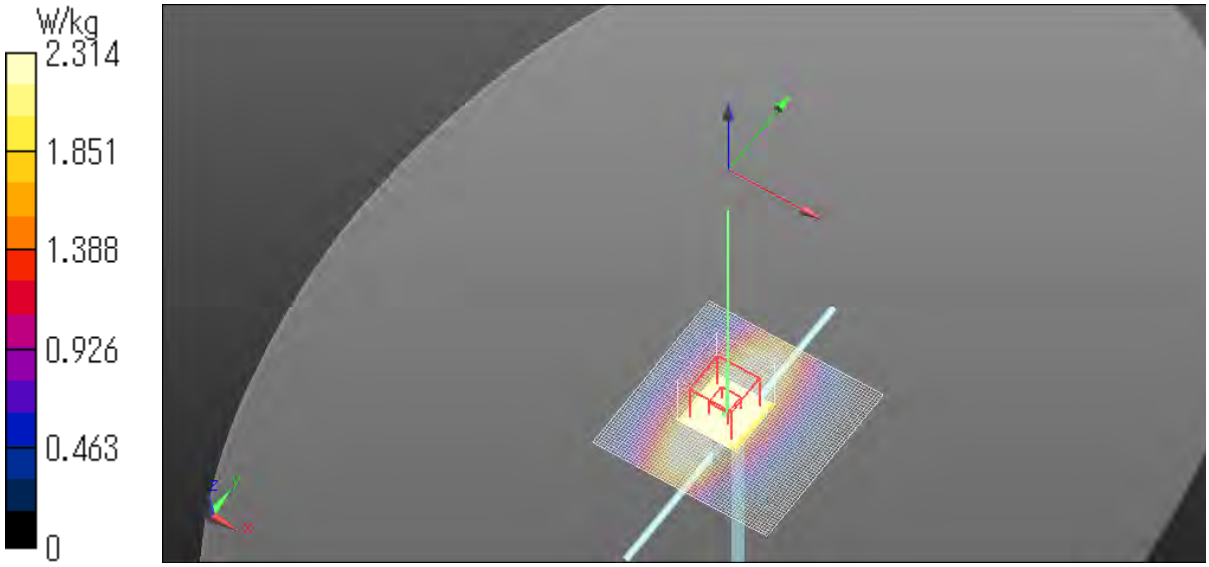
Phantom info:
Phantom: ELI v5.0 TP1207 (30 deg probe tilt)/Phantom section: Flat Section
Type: QDOVA001BB
Serial: TP:1207
Software info DASY52 52.10.4(1535) SEMCAD X 14.6.14(7501)

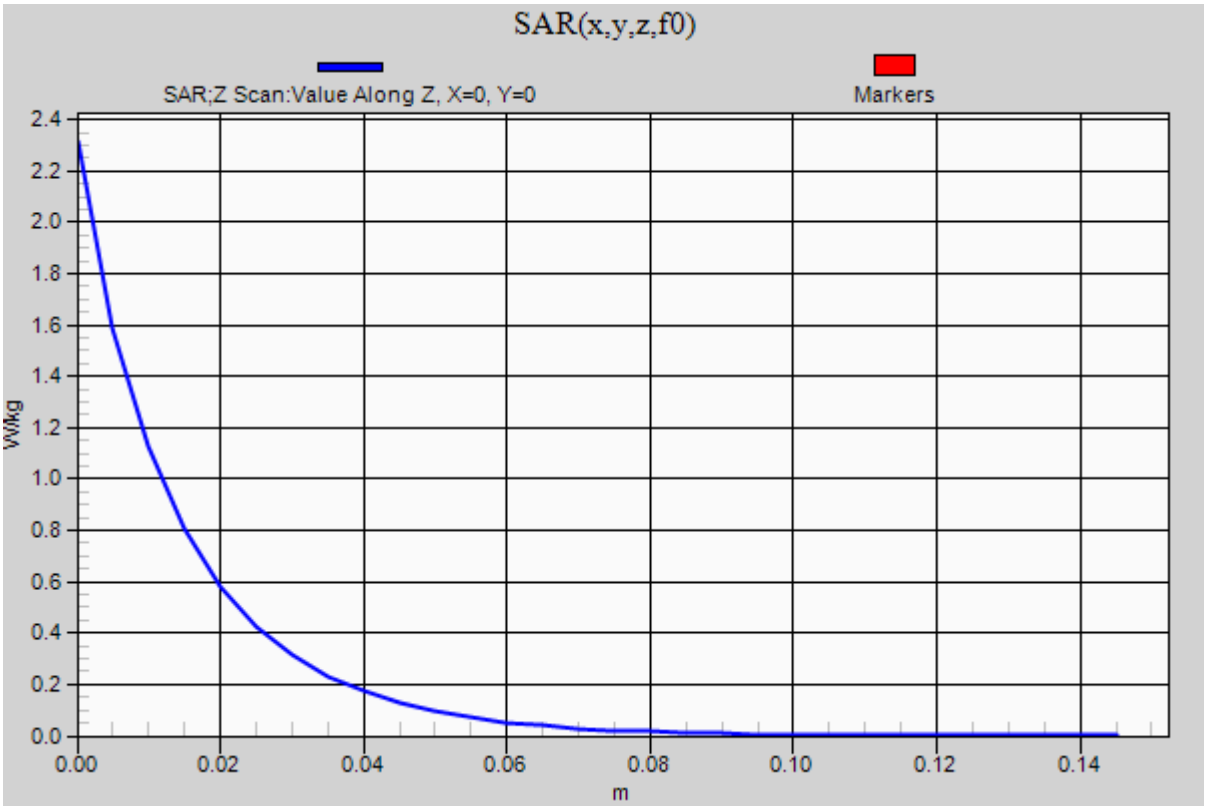
Configuration/250 mW 2/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 3.33 W/kg

Configuration/250 mW 2/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5 mm, dy=5 mm, dz=5 mm
Reference Value = 65.04 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 3.78 W/kg
SAR(1 g) = 2.62 W/kg; SAR(10 g) = 1.74 W/kg (SAR corrected for target medium)
Smallest distance from peaks to all points 3 dB below = 18.9 mm
Ratio of SAR at M2 to SAR at M1 = 68.5 %
Maximum value of SAR (measured) = 3.41 W/kg

Configuration/250 mW 2/Z Scan (1x1x31): Measurement grid: dx=20 mm, dy=20 mm, dz=5 mm
Maximum value of SAR (measured) = 2.31 W/kg

Note: Liquid temp. is kept within the 2 degree.C. during the test.


W/kg
2.314
1.851
1.388
0.926
0.463
0


SAR(x,y,z,f0)
SAR;Z Scan:Value Along Z, X=0, Y=0
Markers
W/kg
2.4
2.2
2.0
1.8
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
0.00
0.02
0.04
0.06
0.08
0.10
0.12
0.14
m

20230215 1750 MHz Ambient Temp_22.8 deg.C._Liquid Temp_22.5 deg.C

Communication System info
Communication System: UID 0, _CW (0)
Communication System Band: D1750 (1750.0 MHz)Duty Cycle: 1:1
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

Probe info:
Probe: EX3DV4 - SN3917 / Calibrated: 2022/05/17
ConvF(8.4, 8.4, 8.4) @ 1750 MHz
Medium parameters used: f = 1750 MHz; σ = 1.328 S/m; ε_r = 39.343; ρ = 1000 kg/m^3
Sensor-Surface: 1.4 mm (Mechanical Surface Detection), Sensor-Surface: 0 mm (Fix Surface)

DAE info:
Electronics: DAE4 Sn509 / Calibrated: 2022/07/13

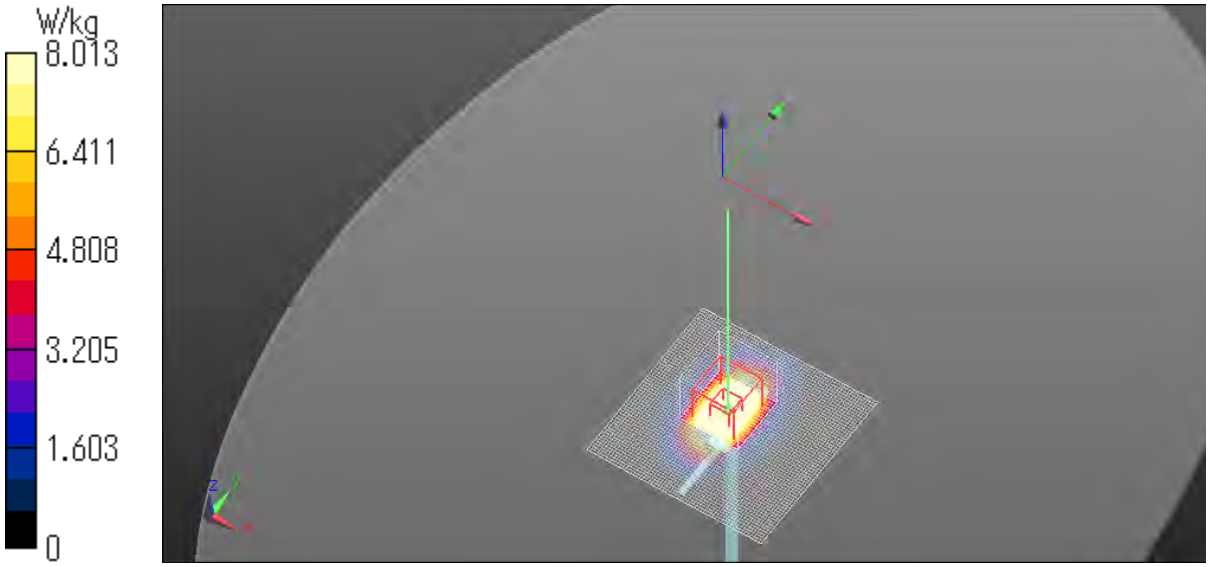
Phantom info:
Phantom: ELI v5.0 TP1207 (30 deg probe tilt)/Phantom section: Flat Section
Type: QDOVA001BB
Serial: TP:1207
Software info DASY52 52.10.4(1535) SEMCAD X 14.6.14(7501)

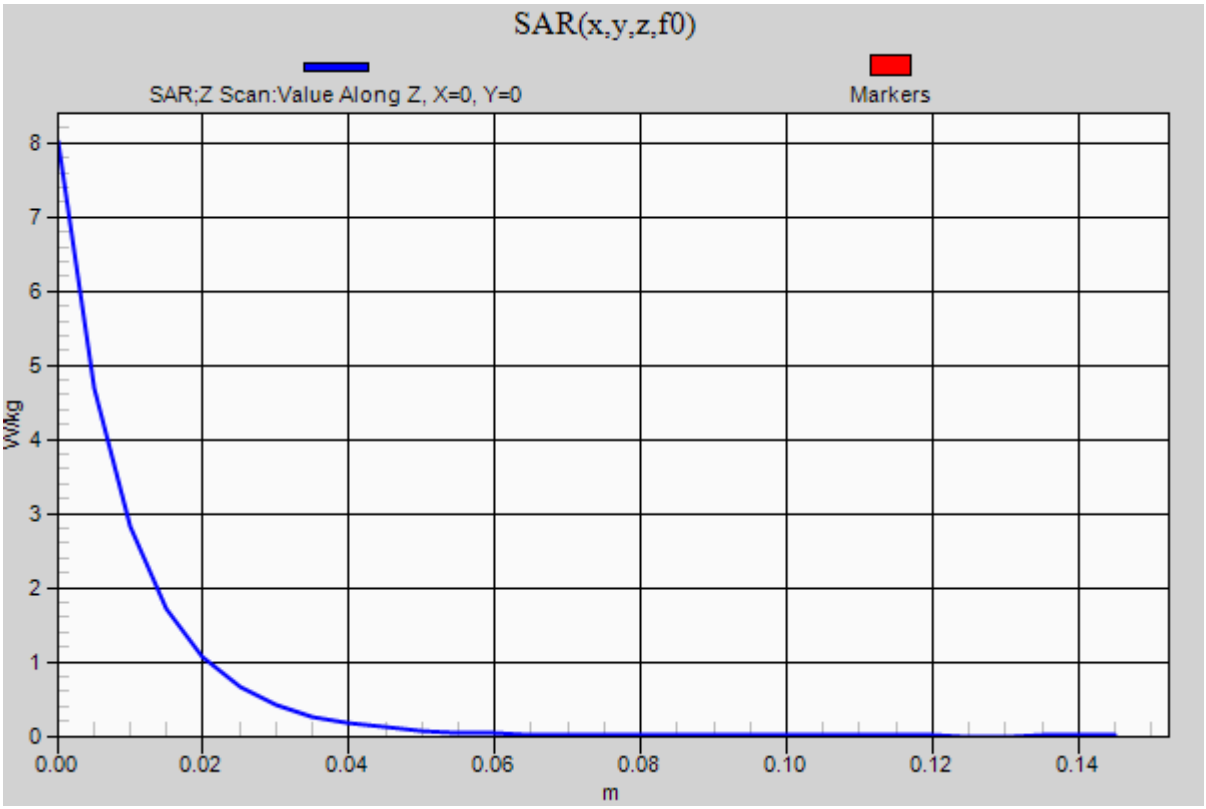
Configuration 2/250 mW 3/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 14.3 W/kg

Configuration 2/250 mW 3/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5 mm, dy=5 mm, dz=5 mm
Reference Value = 107.2 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 17.5 W/kg
SAR(1 g) = 9.64 W/kg; SAR(10 g) = 5.15 W/kg (SAR corrected for target medium)
Smallest distance from peaks to all points 3 dB below = 10 mm
Ratio of SAR at M2 to SAR at M1 = 54.8 %
Maximum value of SAR (measured) = 14.6 W/kg

Configuration 2/250 mW 3/Z Scan (1x1x31): Measurement grid: dx=20 mm, dy=20 mm, dz=5 mm
Maximum value of SAR (measured) = 8.01 W/kg

Note: Liquid temp. is kept within the 2 degree.C. during the test.


W/kg
8.013
6.411
4.808
3.205
1.603
0


SAR(x,y,z,f0)
SAR;Z Scan:Value Along Z, X=0, Y=0
Markers
W/kg
8
7
6
5
4
3
2
1
0
0.00
0.02
0.04
0.06
0.08
0.10
0.12
0.14
m

20230215 1900 MHz Ambient Temp_22.8 deg.C._Liquid Temp_22.5 deg.C

Communication System info
Communication System: UID 0, _CW (0)
Communication System Band: D1900 (1900.0 MHz)Duty Cycle: 1:1
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

Probe info:
Probe: EX3DV4 - SN3917 / Calibrated: 2022/05/17
ConvF(8.18, 8.18, 8.18) @ 1900 MHz
Medium parameters used: f = 1900 MHz; σ = 1.424 S/m; ε_r = 39.109; ρ = 1000 kg/m^3
Sensor-Surface: 1.4 mm (Mechanical Surface Detection), Sensor-Surface: 0 mm (Fix Surface)

DAE info:
Electronics: DAE4 Sn509 / Calibrated: 2022/07/13

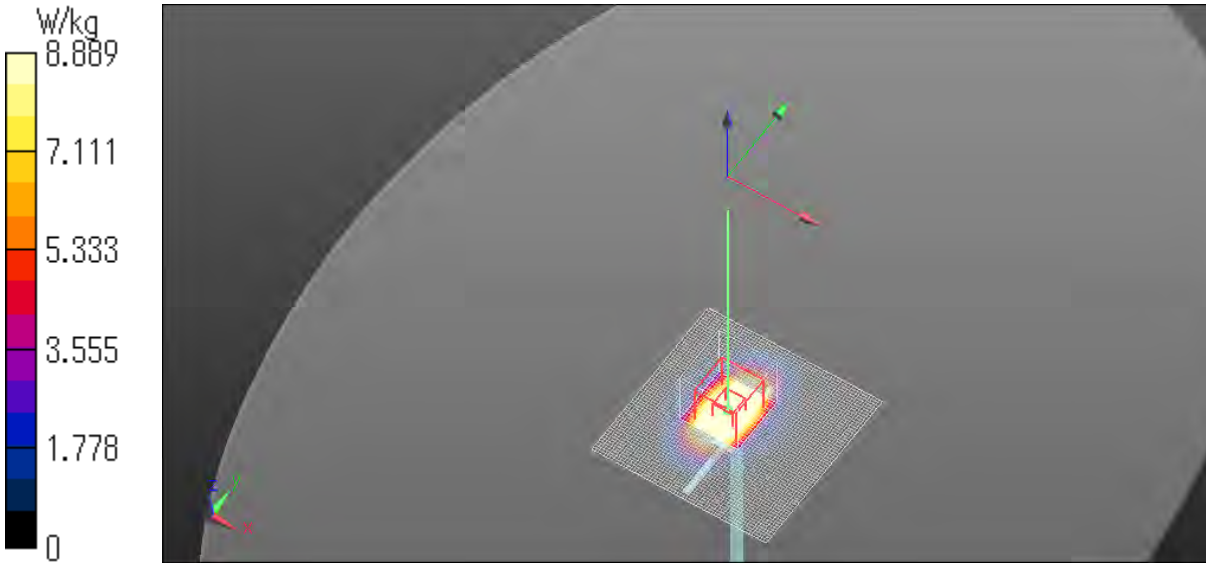
Phantom info:
Phantom: ELI v5.0 TP1207 (30 deg probe tilt)/Phantom section: Flat Section
Type: QDOVA001BB
Serial: TP:1207
Software info DASY52 52.10.4(1535) SEMCAD X 14.6.14(7501)

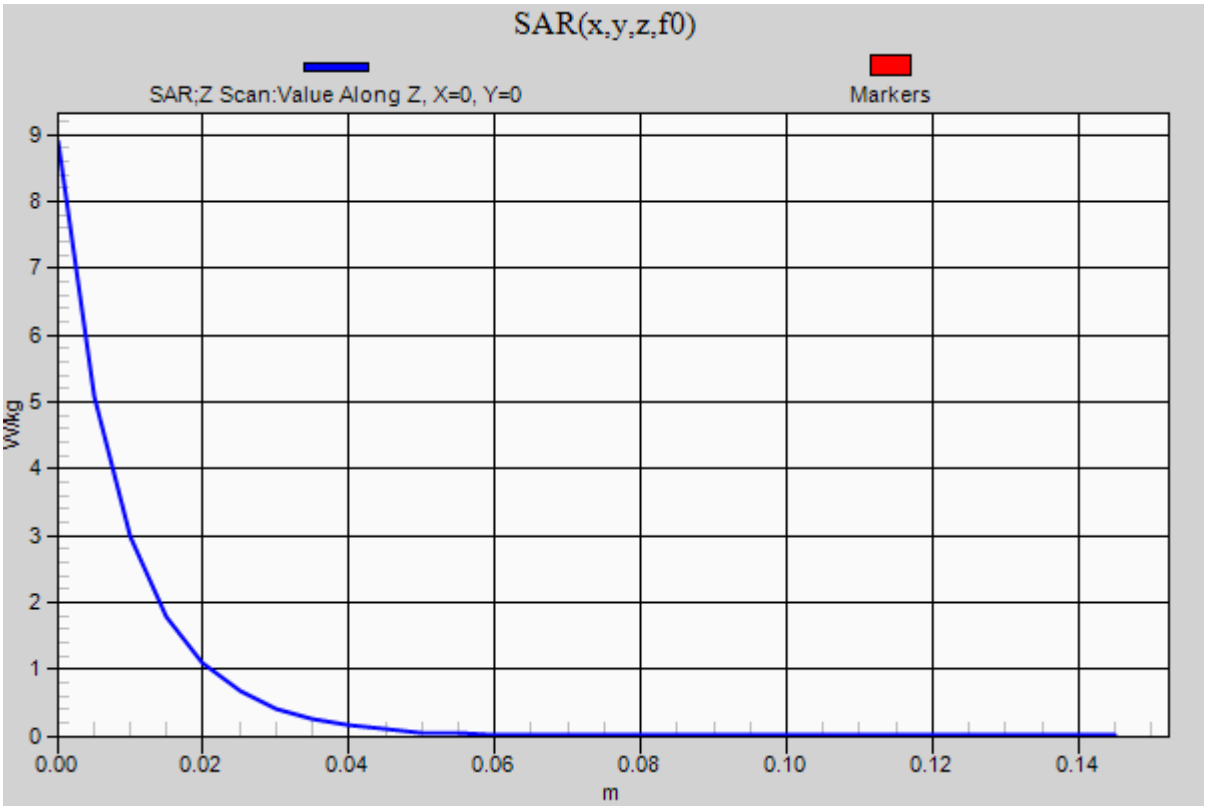
Configuration 2/250 mW 4/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 16.1 W/kg

Configuration 2/250 mW 4/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5 mm, dy=5 mm, dz=5 mm
Reference Value = 109.8 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 19.3 W/kg
SAR(1 g) = 10.5 W/kg; SAR(10 g) = 5.51 W/kg (SAR corrected for target medium)
Smallest distance from peaks to all points 3 dB below = 10 mm
Ratio of SAR at M2 to SAR at M1 = 54.9 %
Maximum value of SAR (measured) = 16.1 W/kg

Configuration 2/250 mW 4/Z Scan (1x1x31): Measurement grid: dx=20 mm, dy=20 mm, dz=5 mm
Maximum value of SAR (measured) = 8.89 W/kg

Note: Liquid temp. is kept within the 2 degree.C. during the test.


W/kg
8.889
7.111
5.333
3.555
1.778
0


SAR(x,y,z,f0)
SAR;Z Scan:Value Along Z, X=0, Y=0
Markers
W/kg
9
8
7
6
5
4
3
2
1
0
0.00
0.02
0.04
0.06
0.08
0.10
0.12
0.14
m

20230215 2600 MHz Ambient Temp_22.8 deg.C._Liquid Temp_22.5 deg.C

Communication System info
Communication System: UID 0, _CW (0)
Communication System Band: D2600 (2600.0 MHz)Duty Cycle: 1:1
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

Probe info:
Probe: EX3DV4 - SN3917 / Calibrated: 2022/05/17
ConvF(7.47, 7.47, 7.47) @ 2600 MHz
Medium parameters used: f = 2600 MHz; σ = 1.9 S/m; ε_r = 38.175; ρ = 1000 kg/m^3
Sensor-Surface: 1.4 mm (Mechanical Surface Detection)

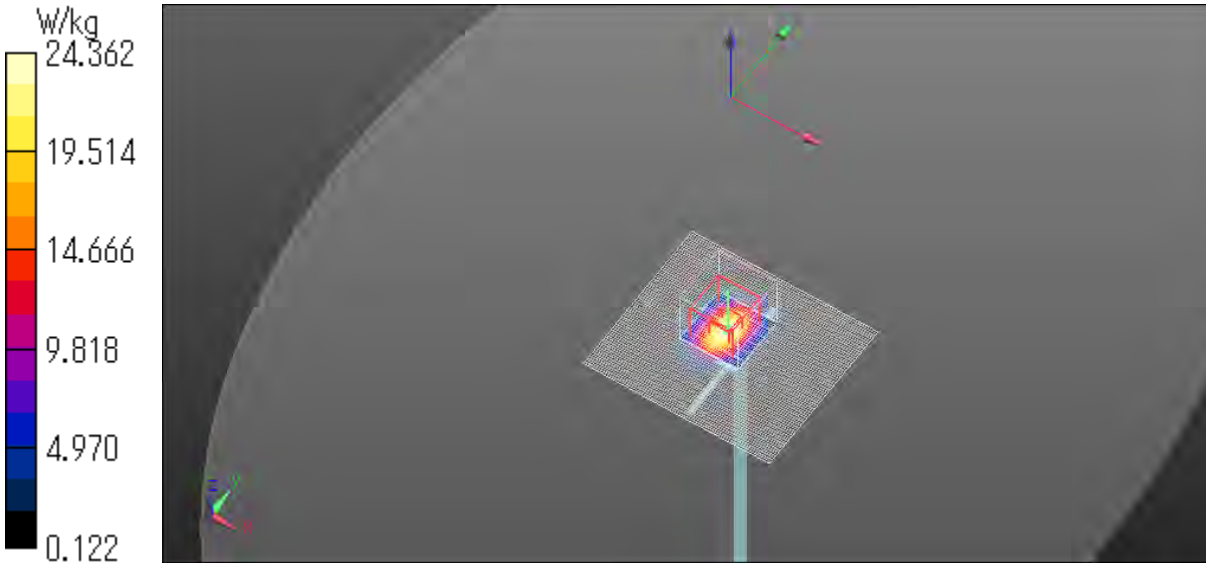
DAE info:
Electronics: DAE4 Sn509 / Calibrated: 2022/07/13

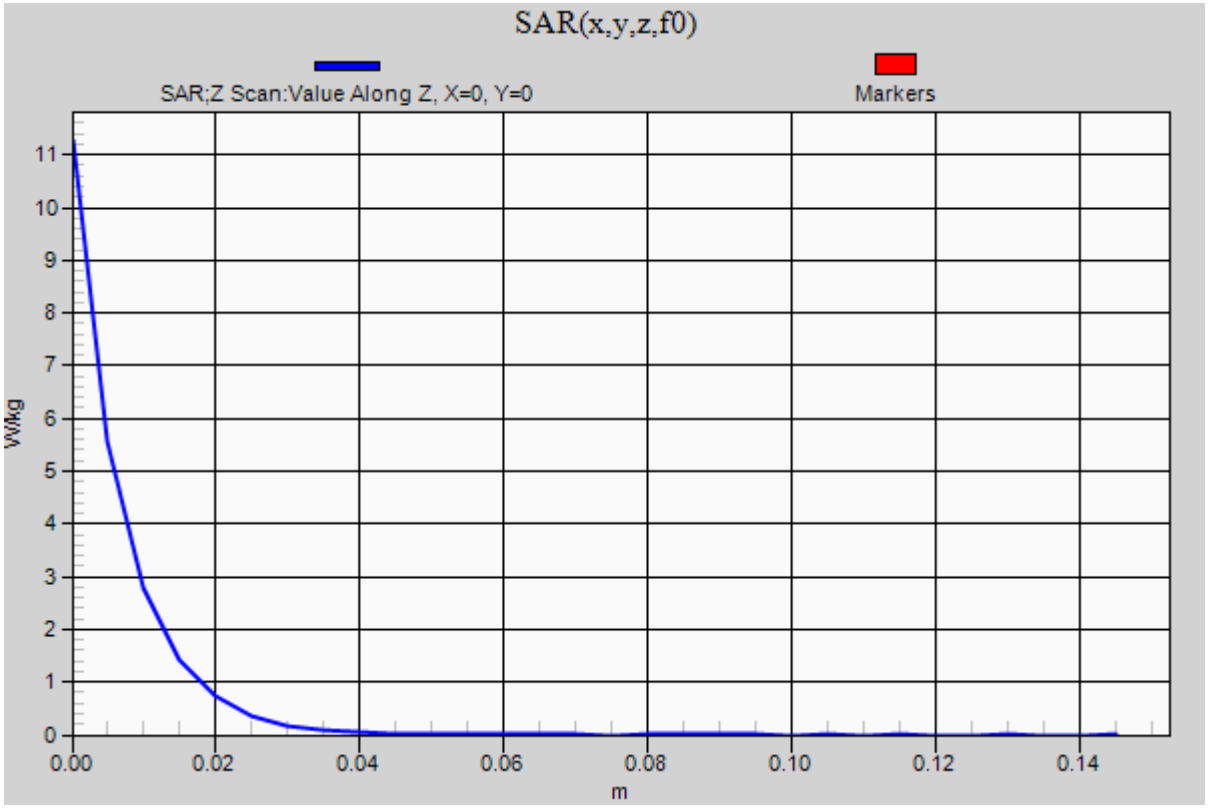
Phantom info:
Phantom: ELI v5.0 TP1207 (30 deg probe tilt)/Phantom section: Flat Section
Type: QDOVA001BB
Serial: TP:1207
Software info DASY52 52.10.4(1535) SEMCAD X 14.6.14(7501)

Configuration 2/250 mW 5/Area Scan (81x71x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 25.0 W/kg

Configuration 2/250 mW 5/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5 mm, dy=5 mm, dz=5 mm
Reference Value = 116.0 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 30.7 W/kg
SAR(1 g) = 14.5 W/kg; SAR(10 g) = 6.52 W/kg (SAR corrected for target medium)
Smallest distance from peaks to all points 3 dB below = 9 mm
Ratio of SAR at M2 to SAR at M1 = 46.7 %
Maximum value of SAR (measured) = 24.4 W/kg

Note: Liquid temp. is kept within the 2 degree.C. during the test.


W/kg
24.362
19.514
14.666
9.818
4.970
0.122


SAR(x,y,z,f0)
SAR;Z Scan:Value Along Z, X=0, Y=0
Markers
W/kg
11
10
9
8
7
6
5
4
3
2
1
0
0.00
0.02
0.04
0.06
0.08
0.10
0.12
0.14
m

20230220 750 MHz Ambient Temp_22.5 deg.C._Liquid Temp_22.25 deg.C

Communication System info
Communication System: UID 0, #CW (0)
Communication System Band: D750 (750.0 MHz)Duty Cycle: 1:1
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

Probe info:
Probe: EX3DV4 - SN3825 / Calibrated: 2022/07/20
ConvF(9.83, 9.83, 9.83) @ 750 MHz
Medium parameters used: f = 750 MHz; σ = 0.876 S/m; ε_r = 42.498; ρ = 1000 kg/m^3
Sensor-Surface: 1.4 mm (Mechanical Surface Detection), Sensor-Surface: 0 mm (Fix Surface)

DAE info:
Electronics: DAE4 Sn1369 / Calibrated: 2022/05/09

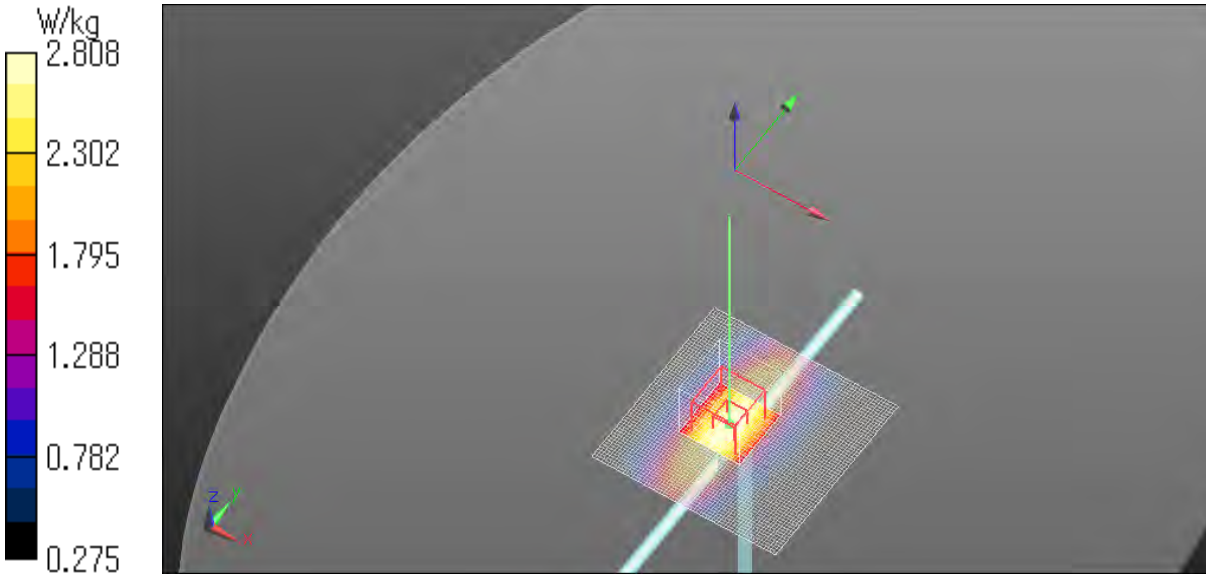
Phantom info:
Phantom: ELI v5.0 (20 deg probe tilt)/Phantom section: Flat Section
Type: QDOVA001BB
Serial: TP:1203
Software info DASY52 52.10.3(1513) SEMCAD X 14.6.13(7474)

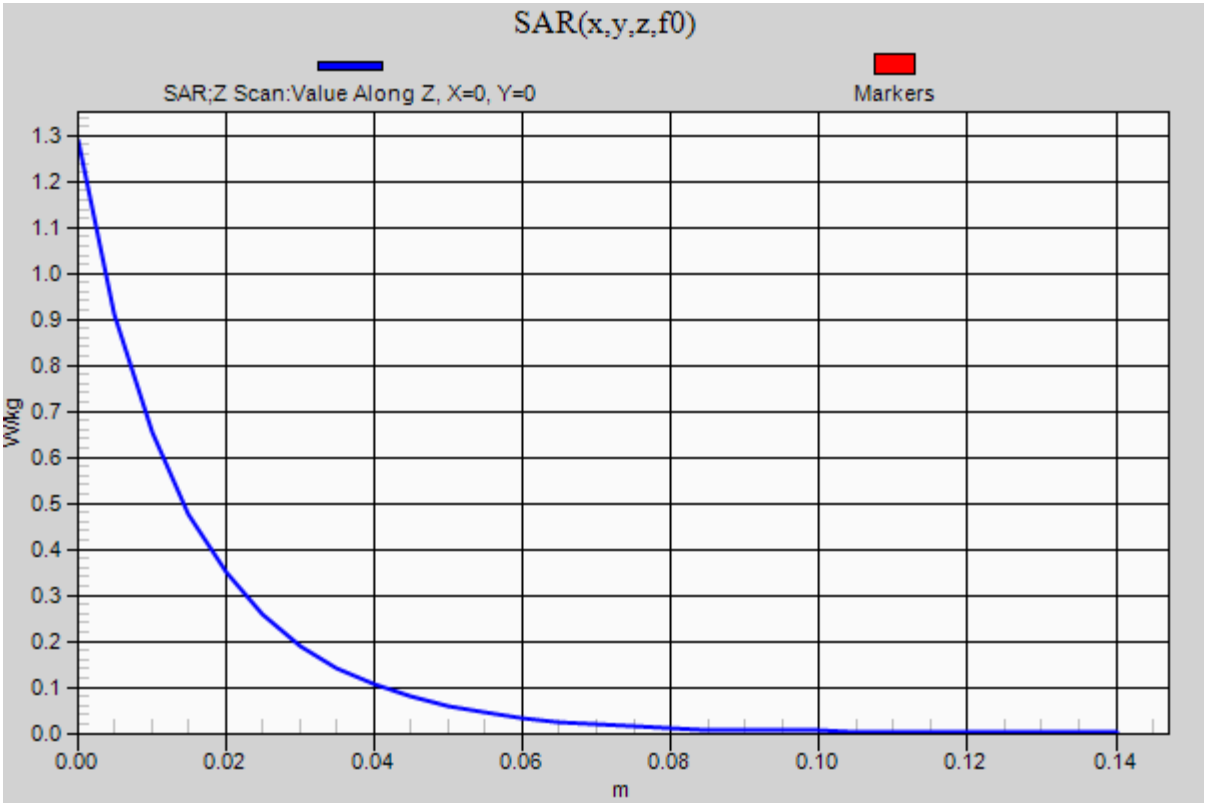
Configuration/250 mW/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 2.73 W/kg

Configuration/250 mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5 mm, dy=5 mm, dz=5 mm
Reference Value = 58.78 V/m; Power Drift = 0.00 dB
Peak SAR (extrapolated) = 3.20 W/kg
SAR(1 g) = 2.1 W/kg; SAR(10 g) = 1.39 W/kg
Smallest distance from peaks to all points 3 dB below = 23.3 mm
Ratio of SAR at M2 to SAR at M1 = 66 %
Maximum value of SAR (measured) = 2.81 W/kg

Configuration/250 mW/Z Scan (1x1x31): Measurement grid: dx=20 mm, dy=20 mm, dz=5 mm
Maximum value of SAR (measured) = 1.29 W/kg

Note: Liquid temp. is kept within the 2 degree.C. during the test.


W/kg
2.808
2.302
1.795
1.288
0.782
0.275


SAR(x,y,z,f0)
SAR;Z Scan:Value Along Z, X=0, Y=0
Markers
W/kg
1.3
1.2
1.1
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
0.00
0.02
0.04
0.06
0.08
0.10
0.12
0.14
m

20230220 835 MHz Ambient Temp_22.5 deg.C._Liquid Temp_22.25 deg.C

Communication System info
Communication System: UID 0, #CW (0)
Communication System Band: D835 (835.0 MHz)Duty Cycle: 1:1
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

Probe info:
Probe: EX3DV4 - SN3825 / Calibrated: 2022/07/20
ConvF(9.57, 9.57, 9.57) @ 835 MHz
Medium parameters used: f = 835 MHz; σ = 0.906 S/m; ε_r = 42.282; ρ = 1000 kg/m^3
Sensor-Surface: 1.4 mm (Mechanical Surface Detection), Sensor-Surface: 0 mm (Fix Surface)

DAE info:
Electronics: DAE4 Sn1369 / Calibrated: 2022/05/09

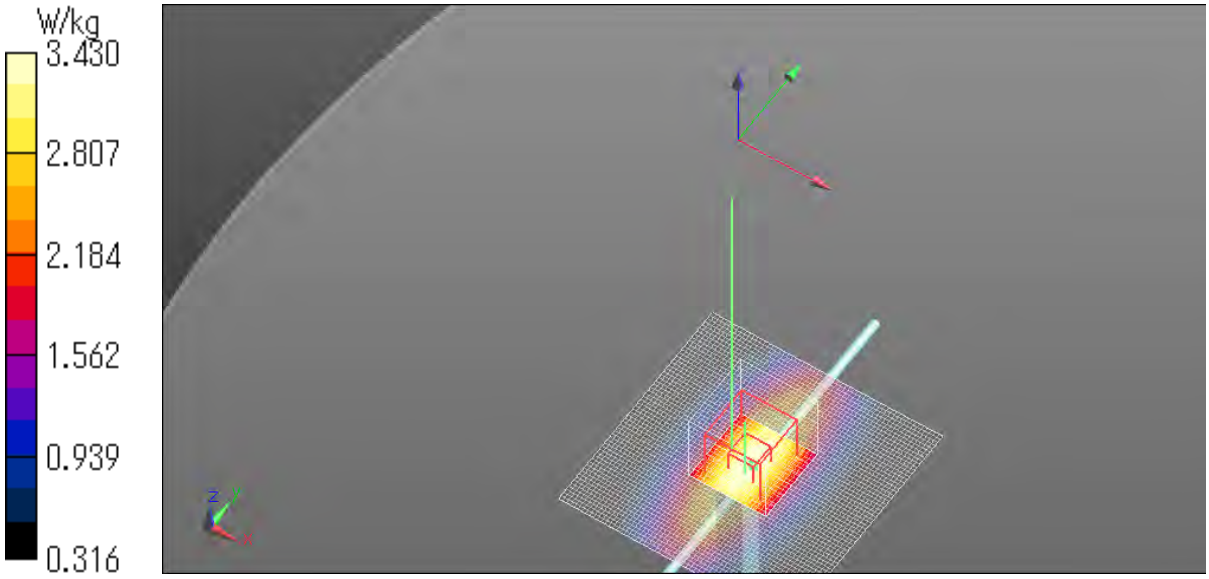
Phantom info:
Phantom: ELI v5.0 (20 deg probe tilt)/Phantom section: Flat Section
Type: QDOVA001BB
Serial: TP:1203
Software info DASY52 52.10.3(1513) SEMCAD X 14.6.13(7474)

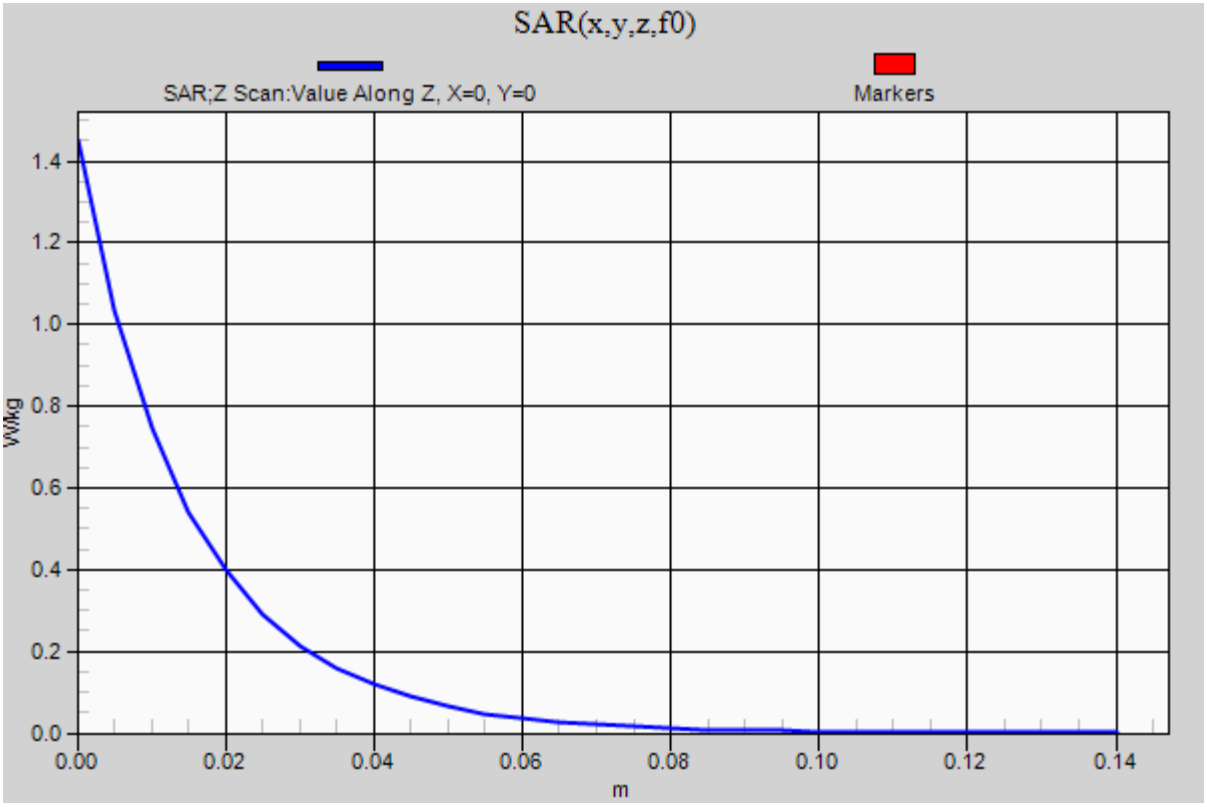
Configuration/250 mW 2/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 3.39 W/kg

Configuration/250 mW 2/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5 mm, dy=5 mm, dz=5 mm
Reference Value = 59.88 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 3.90 W/kg
SAR(1 g) = 2.57 W/kg; SAR(10 g) = 1.69 W/kg
Smallest distance from peaks to all points 3 dB below = 18.4 mm
Ratio of SAR at M2 to SAR at M1 = 65.8 %
Maximum value of SAR (measured) = 3.43 W/kg

Configuration/250 mW 2/Z Scan (1x1x31): Measurement grid: dx=20 mm, dy=20 mm, dz=5 mm
Maximum value of SAR (measured) = 1.45 W/kg

Note: Liquid temp. is kept within the 2 degree.C. during the test.


W/kg
3.430
2.807
2.184
1.562
0.939
0.316


SAR(x,y,z,f0)
SAR;Z Scan:Value Along Z, X=0, Y=0
Markers
W/kg
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
0.00
0.02
0.04
0.06
0.08
0.10
0.12
0.14
m

20230220 1750 MHz Ambient Temp_22.5 deg.C._Liquid Temp_22.25 deg.C

Communication System info
Communication System: UID 0, _CW (0)
Communication System Band: D1750 (1750.0 MHz)Duty Cycle: 1:1
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

Probe info:
Probe: EX3DV4 - SN3825 / Calibrated: 2022/07/20
ConvF(8.66, 8.66, 8.66) @ 1750 MHz
Medium parameters used: f = 1750 MHz; σ = 1.318 S/m; ε_r = 40.597; ρ = 1000 kg/m^3
Sensor-Surface: 1.4 mm (Mechanical Surface Detection), Sensor-Surface: 0 mm (Fix Surface)

DAE info:
Electronics: DAE4 Sn1369 / Calibrated: 2022/05/09

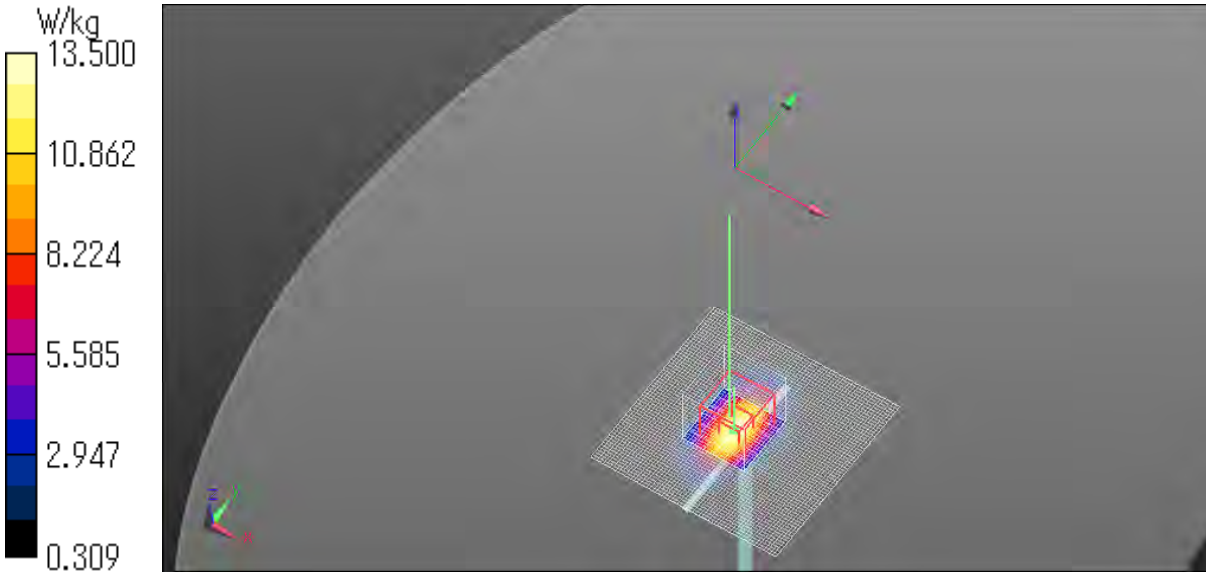
Phantom info:
Phantom: ELI v5.0 (20 deg probe tilt)/Phantom section: Flat Section
Type: QDOVA001BB
Serial: TP:1203
Software info DASY52 52.10.3(1513) SEMCAD X 14.6.13(7474)

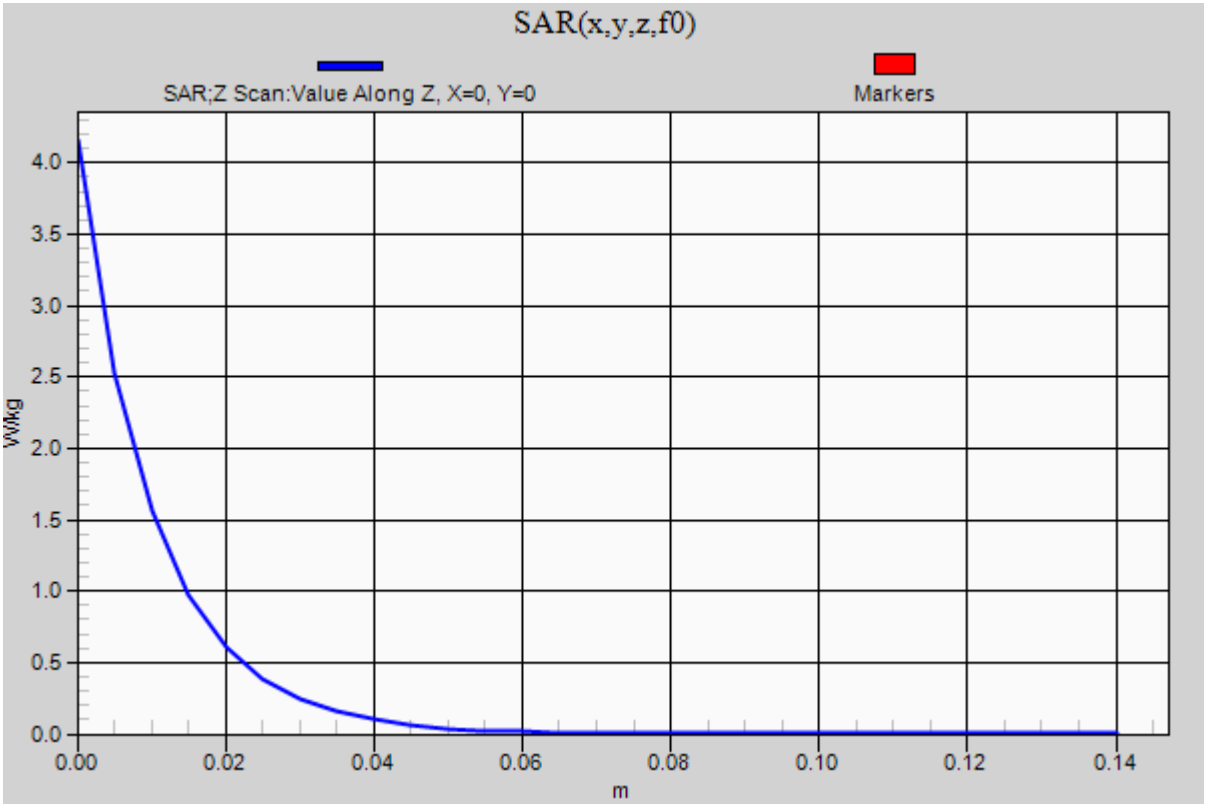
Configuration/250 mW 3/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 13.0 W/kg

Configuration/250 mW 3/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5 mm, dy=5 mm, dz=5 mm
Reference Value = 98.92 V/m; Power Drift = 0.00 dB
Peak SAR (extrapolated) = 16.2 W/kg
SAR(1 g) = 8.73 W/kg; SAR(10 g) = 4.67 W/kg
Smallest distance from peaks to all points 3 dB below = 10 mm
Ratio of SAR at M2 to SAR at M1 = 54.8 %
Maximum value of SAR (measured) = 13.5 W/kg

Configuration/250 mW 3/Z Scan (1x1x31): Measurement grid: dx=20 mm, dy=20 mm, dz=5 mm
Maximum value of SAR (measured) = 4.15 W/kg

Note: Liquid temp. is kept within the 2 degree.C. during the test.


W/kg
13.500
10.862
8.224
5.585
2.947
0.309


SAR(x,y,z,f0)
SAR;Z Scan:Value Along Z, X=0, Y=0
Markers
W/kg
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.00
0.02
0.04
0.06
0.08
0.10
0.12
0.14
m

Communication System info
Communication System: UID 0, _CW (0)
Communication System Band: D1900 (1900.0 MHz)Duty Cycle: 1:1
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

Probe info:
Probe: EX3DV4 - SN3825 / Calibrated: 2022/07/20
ConvF(8.36, 8.36, 8.36) @ 1900 MHz
Medium parameters used: f = 1900 MHz; σ = 1.397 S/m; ε_r = 40.357; ρ = 1000 kg/m^3
Sensor-Surface: 1.4 mm (Mechanical Surface Detection), Sensor-Surface: 0 mm (Fix Surface)

DAE info:
Electronics: DAE4 Sn1369 / Calibrated: 2022/05/09

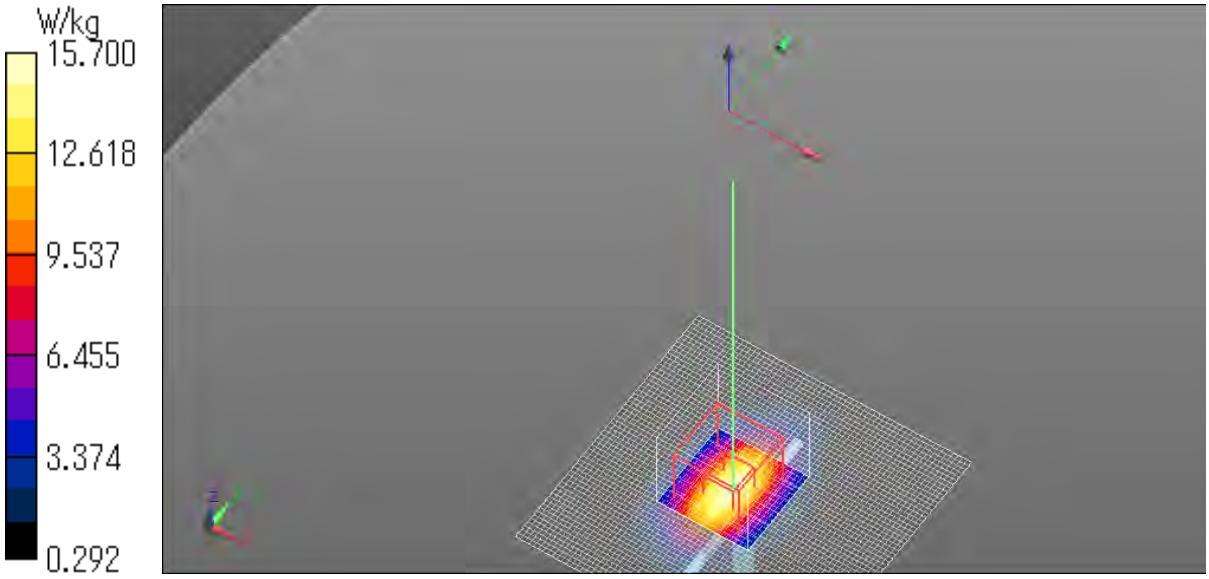
Phantom info:
Phantom: ELI v5.0 (20 deg probe tilt)/Phantom section: Flat Section
Type: QDOVA001BB
Serial: TP:1203
Software info DASY52 52.10.3(1513) SEMCAD X 14.6.13(7474)

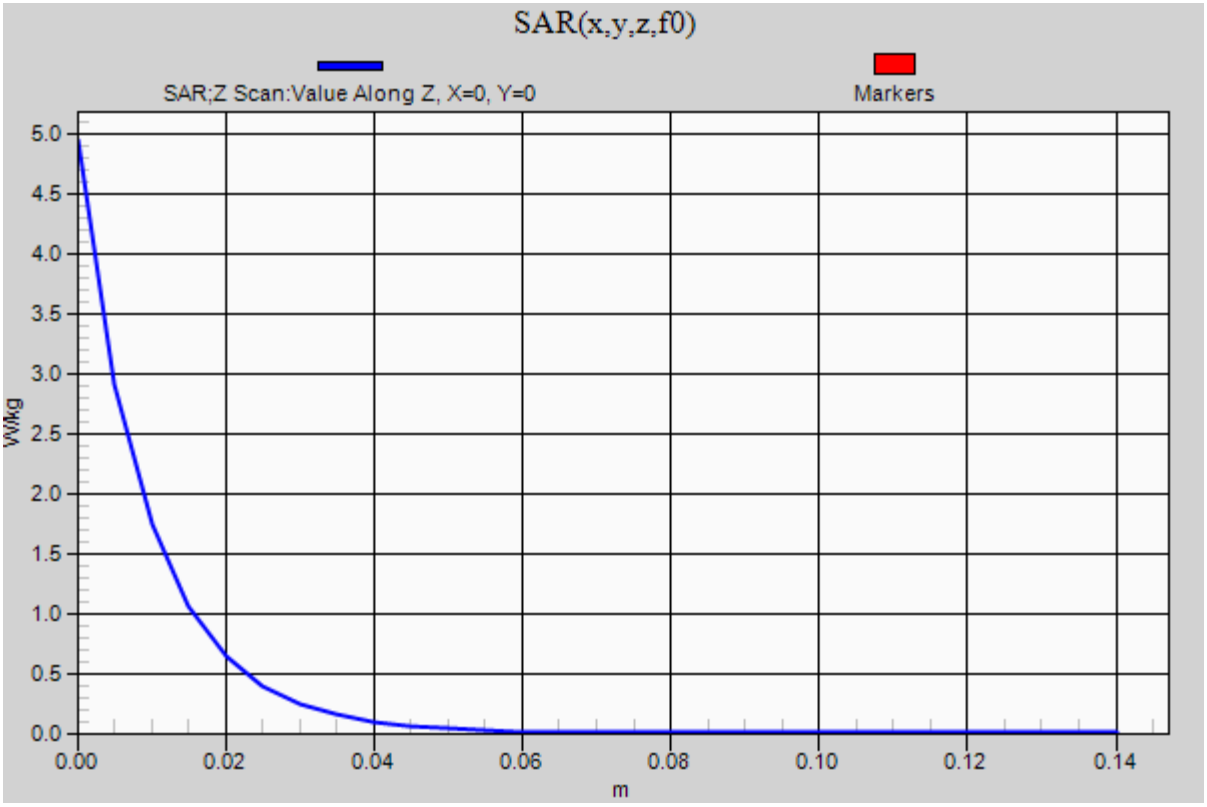
Configuration/250 mW 4/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 15.1 W/kg

Configuration/250 mW 4/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5 mm, dy=5 mm, dz=5 mm
Reference Value = 109.5 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 18.7 W/kg
SAR(1 g) = 10.1 W/kg; SAR(10 g) = 5.31 W/kg
Smallest distance from peaks to all points 3 dB below = 10 mm
Ratio of SAR at M2 to SAR at M1 = 54.7 %
Maximum value of SAR (measured) = 15.7 W/kg

Configuration/250 mW 4/Z Scan (1x1x31): Measurement grid: dx=20 mm, dy=20 mm, dz=5 mm
Maximum value of SAR (measured) = 4.94 W/kg

Note: Liquid temp. is kept within the 2 degree.C. during the test.


W/kg
15.700
12.618
9.537
6.455
3.374
0.292


SAR(x,y,z,f0)
SAR;Z Scan:Value Along Z, X=0, Y=0
Markers
W/kg
5.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.00
0.02
0.04
0.06
0.08
0.10
0.12
0.14
m

20230220 750 MHz Ambient Temp_22.3 deg.C._Liquid Temp_21.8 deg.C

Communication System info
Communication System: UID 0, #CW (0)
Communication System Band: D750 (750.0 MHz)Duty Cycle: 1:1
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

Probe info:
Probe: EX3DV4 - SN3917 / Calibrated: 2022/05/17
ConvF(10.11, 10.11, 10.11) @ 750 MHz
Medium parameters used: f = 750 MHz; σ = 0.872 S/m; ε_r = 41.133; ρ = 1000 kg/m^3
Sensor-Surface: 1.4 mm (Mechanical Surface Detection), Sensor-Surface: 0 mm (Fix Surface)

DAE info:
Electronics: DAE4 Sn509 / Calibrated: 2022/07/13

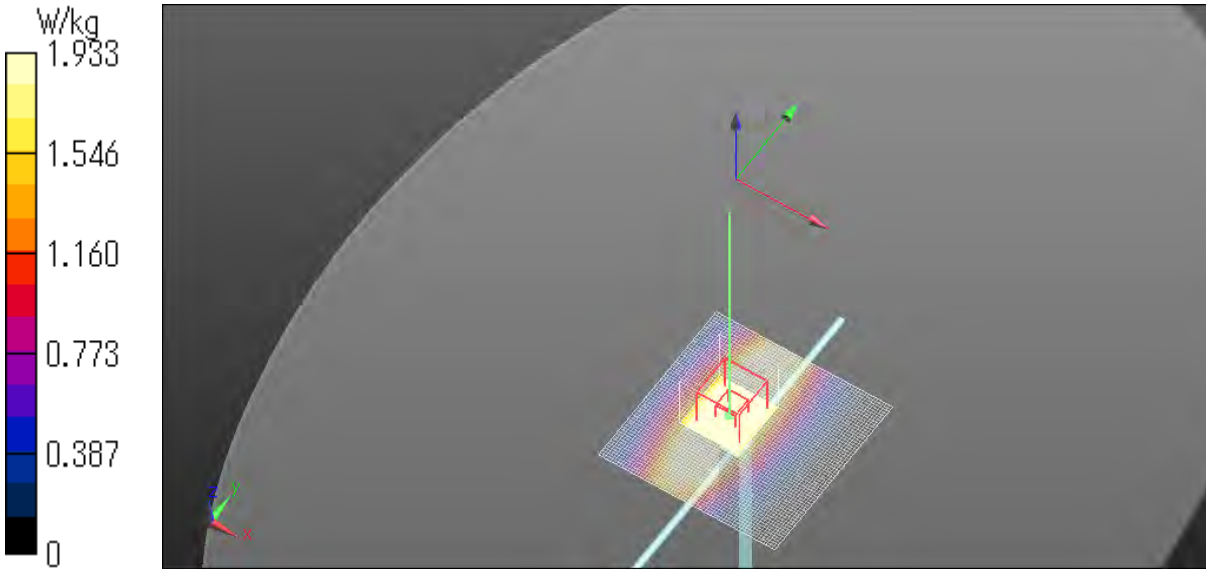
Phantom info:
Phantom: ELI v5.0 TP1207 (30 deg probe tilt)/Phantom section: Flat Section
Type: QDOVA001BB
Serial: TP:1207
Software info DASY52 52.10.4(1535) SEMCAD X 14.6.14(7501)

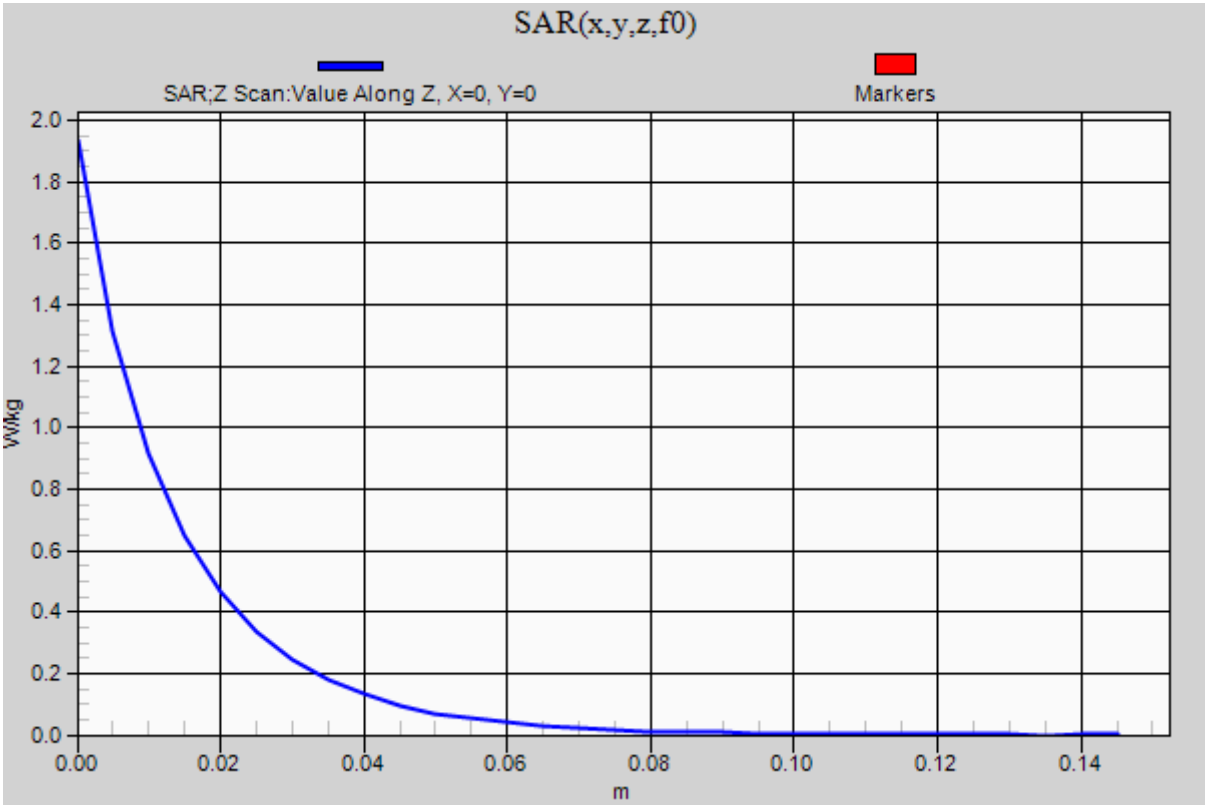
Configuration/250 mW/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 2.80 W/kg

Configuration/250 mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5 mm, dy=5 mm, dz=5 mm
Reference Value = 59.87 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 3.19 W/kg
SAR(1 g) = 2.17 W/kg; SAR(10 g) = 1.43 W/kg (SAR corrected for target medium)
Smallest distance from peaks to all points 3 dB below: Larger than measurement grid (> 15 mm)
Ratio of SAR at M2 to SAR at M1 = 67.1 %
Maximum value of SAR (measured) = 2.84 W/kg

Configuration/250 mW/Z Scan (1x1x31): Measurement grid: dx=20 mm, dy=20 mm, dz=5 mm
Maximum value of SAR (measured) = 1.93 W/kg

Note: Liquid temp. is kept within the 2 degree.C. during the test.


W/kg
1.933
1.546
1.160
0.773
0.387
0


SAR(x,y,z,f0)
SAR;Z Scan:Value Along Z, X=0, Y=0
Markers
W/kg
2.0
1.8
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
0.00
0.02
0.04
0.06
0.08
0.10
0.12
0.14
m

20230220 835 MHz Ambient Temp_22.3 deg.C._Liquid Temp_21.8 deg.C

Communication System info
Communication System: UID 0, #CW (0)
Communication System Band: D835 (835.0 MHz)Duty Cycle: 1:1
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

Probe info:
Probe: EX3DV4 - SN3917 / Calibrated: 2022/05/17
ConvF(9.71, 9.71, 9.71) @ 835 MHz
Medium parameters used: f = 835 MHz; σ = 0.9 S/m; ε_r = 40.868; ρ = 1000 kg/m^3
Sensor-Surface: 1.4 mm (Mechanical Surface Detection), Sensor-Surface: 0 mm (Fix Surface)

DAE info:
Electronics: DAE4 Sn509 / Calibrated: 2022/07/13

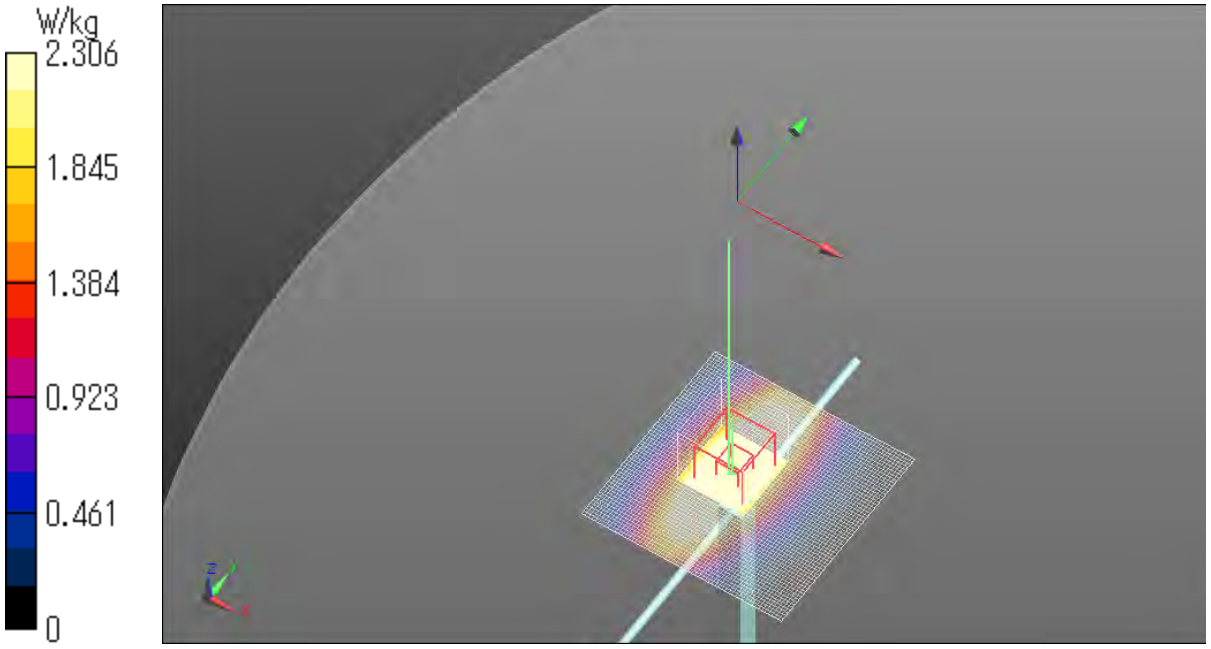
Phantom info:
Phantom: ELI v5.0 TP1207 (30 deg probe tilt)/Phantom section: Flat Section
Type: QDOVA001BB
Serial: TP:1207
Software info DASY52 52.10.4(1535) SEMCAD X 14.6.14(7501)

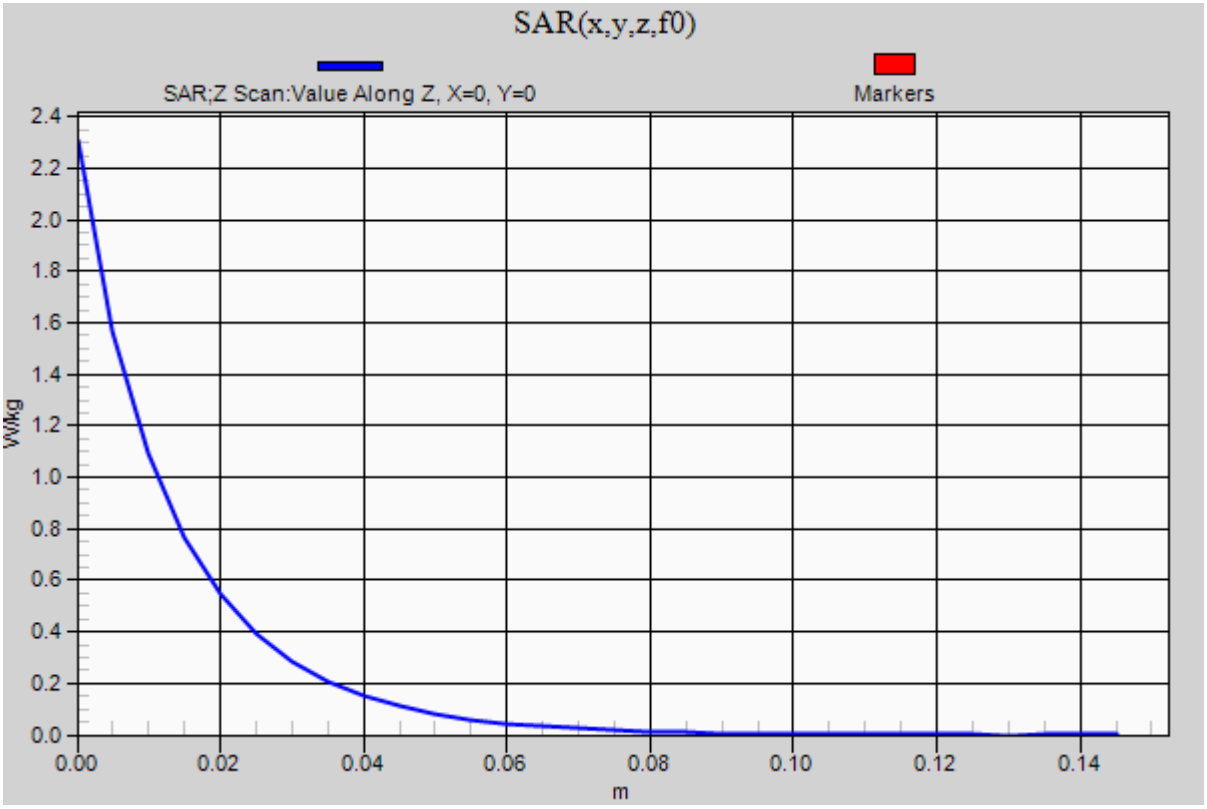
Configuration/250 mW 2/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 3.40 W/kg

Configuration/250 mW 2/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5 mm, dy=5 mm, dz=5 mm
Reference Value = 64.64 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 3.86 W/kg
SAR(1 g) = 2.61 W/kg; SAR(10 g) = 1.71 W/kg (SAR corrected for target medium)
Smallest distance from peaks to all points 3 dB below = 17.9 mm
Ratio of SAR at M2 to SAR at M1 = 67.4 %
Maximum value of SAR (measured) = 3.45 W/kg

Configuration/250 mW 2/Z Scan (1x1x31): Measurement grid: dx=20 mm, dy=20 mm, dz=5 mm
Maximum value of SAR (measured) = 2.31 W/kg

Note: Liquid temp. is kept within the 2 degree.C. during the test.


W/kg
2.306
1.845
1.384
0.923
0.461
0


SAR(x,y,z,f0)
SAR;Z Scan:Value Along Z, X=0, Y=0
Markers
W/kg
2.4
2.2
2.0
1.8
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
0.00
0.02
0.04
0.06
0.08
0.10
0.12
0.14
m

20230220 1750 MHz Ambient Temp_22.3 deg.C._Liquid Temp_21.8 deg.C

Communication System info
Communication System: UID 0, _CW (0)
Communication System Band: D1750 (1750.0 MHz)Duty Cycle: 1:1
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

Probe info:
Probe: EX3DV4 - SN3917 / Calibrated: 2022/05/17
ConvF(8.4, 8.4, 8.4) @ 1750 MHz
Medium parameters used: f = 1750 MHz; σ = 1.32 S/m; ε_r = 39.239; ρ = 1000 kg/m^3
Sensor-Surface: 1.4 mm (Mechanical Surface Detection), Sensor-Surface: 0 mm (Fix Surface)

DAE info:
Electronics: DAE4 Sn509 / Calibrated: 2022/07/13

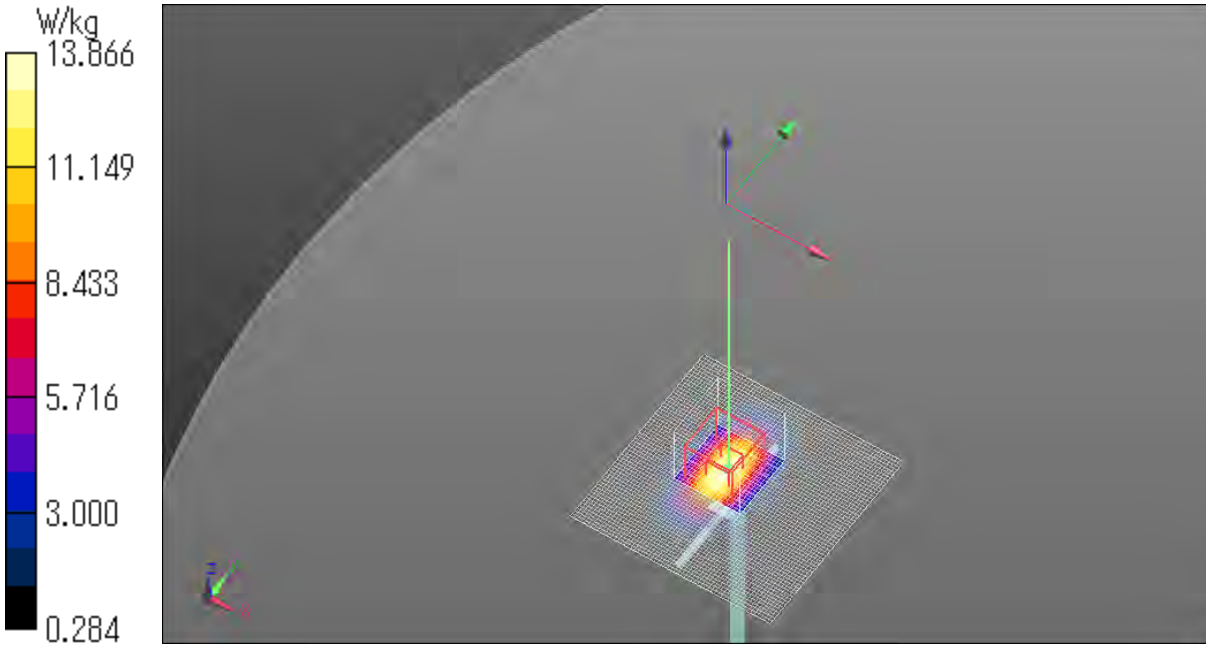
Phantom info:
Phantom: ELI v5.0 TP1207 (30 deg probe tilt)/Phantom section: Flat Section
Type: QDOVA001BB
Serial: TP:1207
Software info DASY52 52.10.4(1535) SEMCAD X 14.6.14(7501)

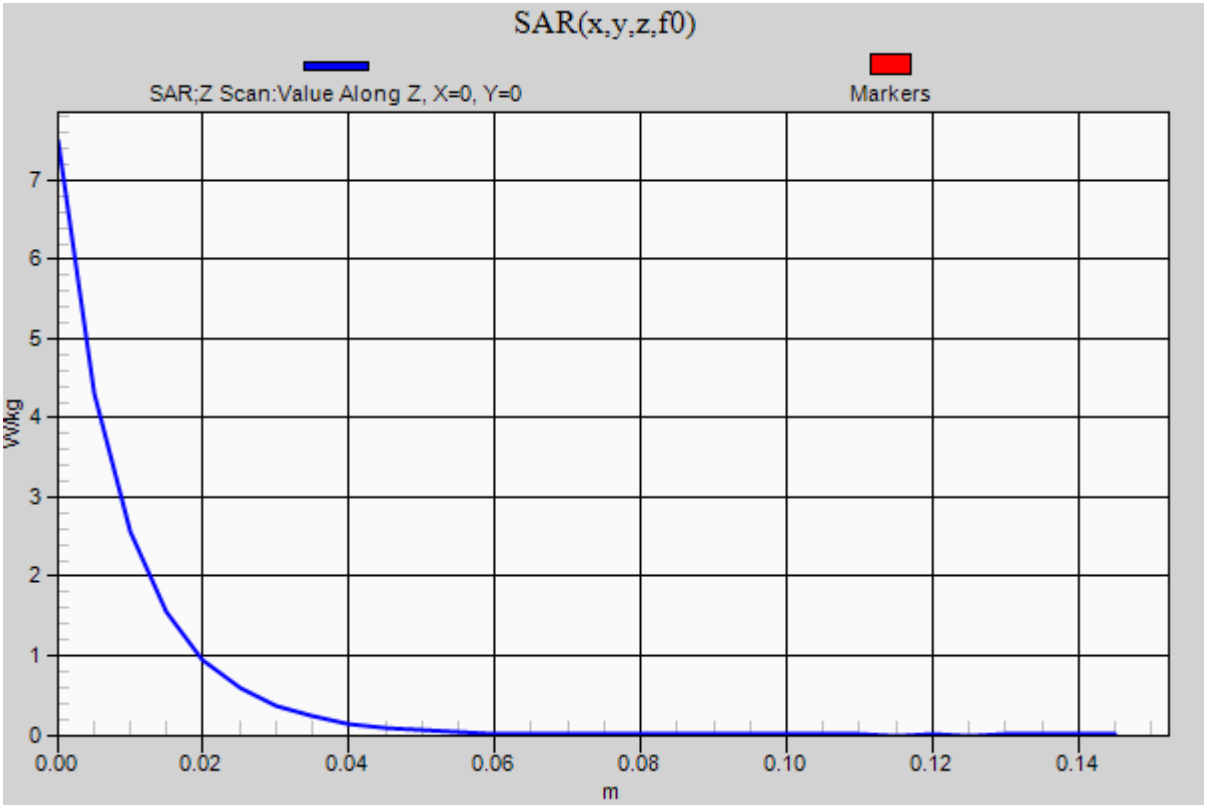
Configuration 2/250 mW 3/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 13.6 W/kg

Configuration 2/250 mW 3/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5 mm, dy=5 mm, dz=5 mm
Reference Value = 104.9 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 16.9 W/kg
SAR(1 g) = 9.2 W/kg; SAR(10 g) = 4.87 W/kg (SAR corrected for target medium)
Smallest distance from peaks to all points 3 dB below = 10 mm
Ratio of SAR at M2 to SAR at M1 = 54.2 %
Maximum value of SAR (measured) = 13.9 W/kg

Configuration 2/250 mW 3/Z Scan (1x1x31): Measurement grid: dx=20 mm, dy=20 mm, dz=5 mm
Maximum value of SAR (measured) = 7.50 W/kg

Note: Liquid temp. is kept within the 2 degree.C. during the test.


W/kg
13.866
11.149
8.433
5.716
3.000
0.284


SAR(x,y,z,f0)
SAR;Z Scan:Value Along Z, X=0, Y=0
Markers
W/kg
0
1
2
3
4
5
6
7
0.00
0.02
0.04
0.06
0.08
0.10
0.12
0.14
m

20230220 1900 MHz Ambient Temp_22.3 deg.C._Liquid Temp_21.8 deg.C

Communication System info
Communication System: UID 0, _CW (0)
Communication System Band: D1900 (1900.0 MHz)Duty Cycle: 1:1
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

Probe info:
Probe: EX3DV4 - SN3917 / Calibrated: 2022/05/17
ConvF(8.18, 8.18, 8.18) @ 1900 MHz
Medium parameters used: f = 1900 MHz; σ = 1.413 S/m; ε_r = 38.979; ρ = 1000 kg/m^3
Sensor-Surface: 1.4 mm (Mechanical Surface Detection), Sensor-Surface: 0 mm (Fix Surface)

DAE info:
Electronics: DAE4 Sn509 / Calibrated: 2022/07/13

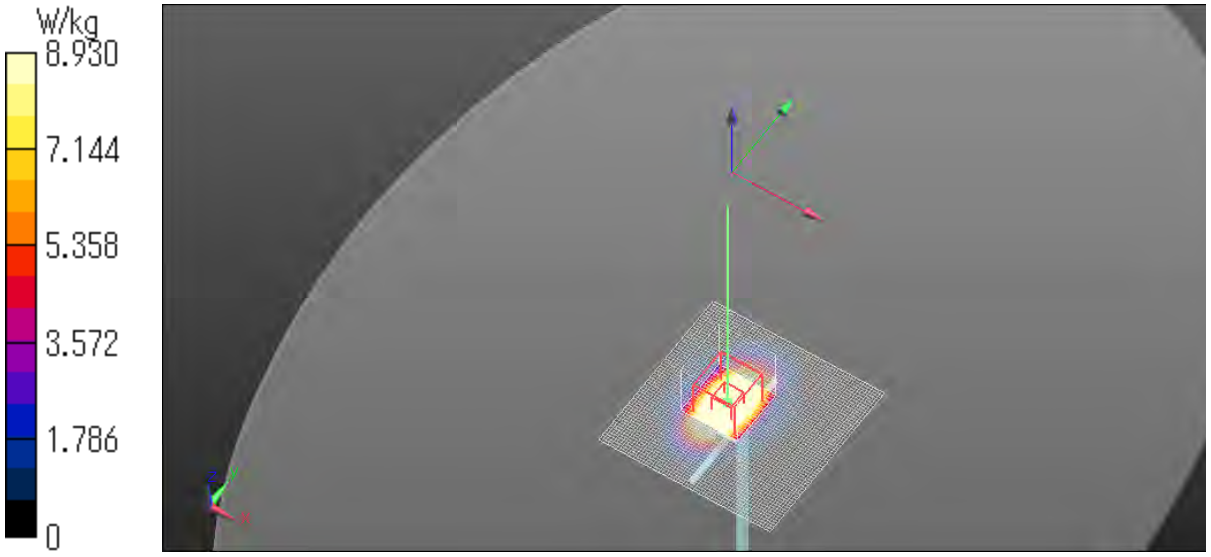
Phantom info:
Phantom: ELI v5.0 TP1207 (30 deg probe tilt)/Phantom section: Flat Section
Type: QDOVA001BB
Serial: TP:1207
Software info DASY52 52.10.4(1535) SEMCAD X 14.6.14(7501)

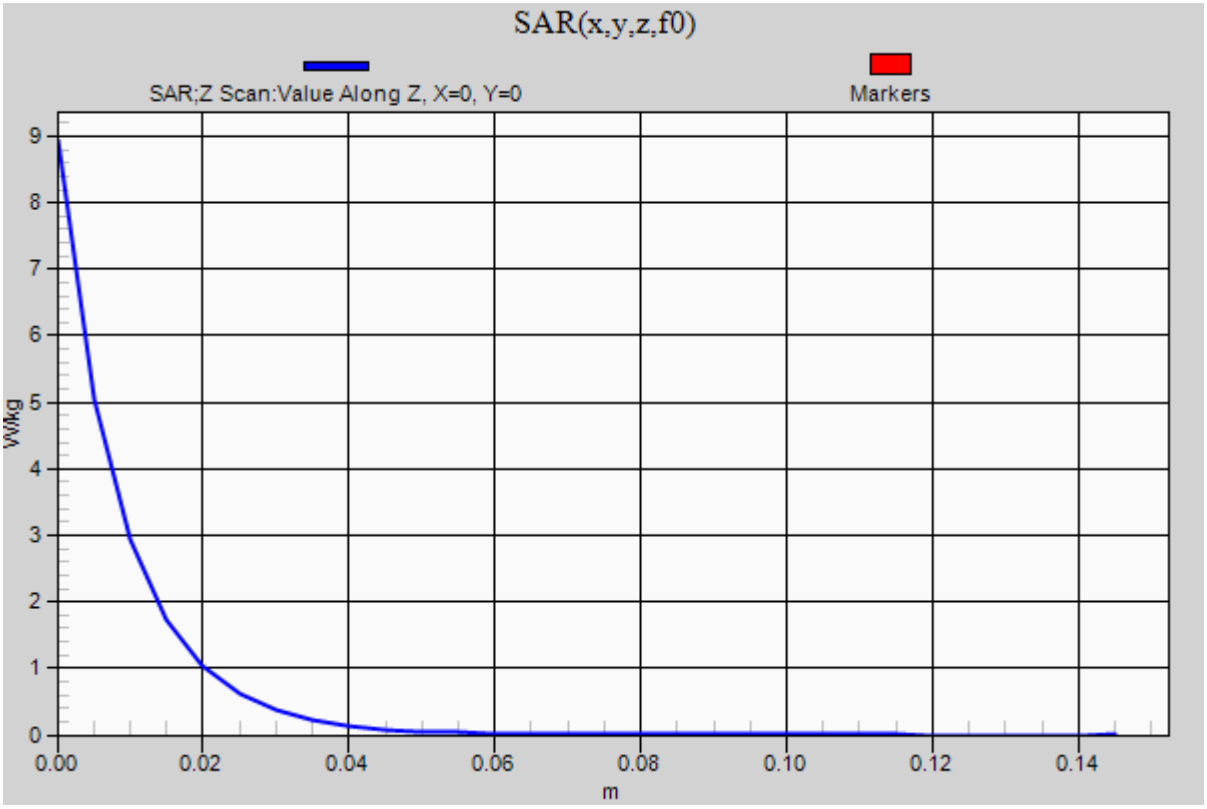
Configuration 2/250 mW 4/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 16.5 W/kg

Configuration 2/250 mW 4/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5 mm, dy=5 mm, dz=5 mm
Reference Value = 112.3 V/m; Power Drift = -0.10 dB
Peak SAR (extrapolated) = 20.0 W/kg
SAR(1 g) = 10.7 W/kg; SAR(10 g) = 5.57 W/kg (SAR corrected for target medium)
Smallest distance from peaks to all points 3 dB below = 10 mm
Ratio of SAR at M2 to SAR at M1 = 53.9 %
Maximum value of SAR (measured) = 16.6 W/kg

Configuration 2/250 mW 4/Z Scan (1x1x31): Measurement grid: dx=20 mm, dy=20 mm, dz=5 mm
Maximum value of SAR (measured) = 8.93 W/kg

Note: Liquid temp. is kept within the 2 degree.C. during the test.


W/kg
8.930
7.144
5.358
3.572
1.786
0


SAR(x,y,z,f0)
SAR;Z Scan:Value Along Z, X=0, Y=0
Markers
W/kg
9
8
7
6
5
4
3
2
1
0
0.00
0.02
0.04
0.06
0.08
0.10
0.12
0.14
m

20230220 2600 MHz Ambient Temp_22.3 deg.C._Liquid Temp_21.8 deg.C

Communication System info
Communication System: UID 0, _CW (0)
Communication System Band: D2600 (2600.0 MHz)Duty Cycle: 1:1
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

Probe info:
Probe: EX3DV4 - SN3917 / Calibrated: 2022/05/17
ConvF(7.47, 7.47, 7.47) @ 2600 MHz
Medium parameters used: f = 2600 MHz; σ = 1.892 S/m; ε_r = 37.959; ρ = 1000 kg/m^3
Sensor-Surface: 1.4 mm (Mechanical Surface Detection), Sensor-Surface: 0 mm (Fix Surface)

DAE info:
Electronics: DAE4 Sn509 / Calibrated: 2022/07/13

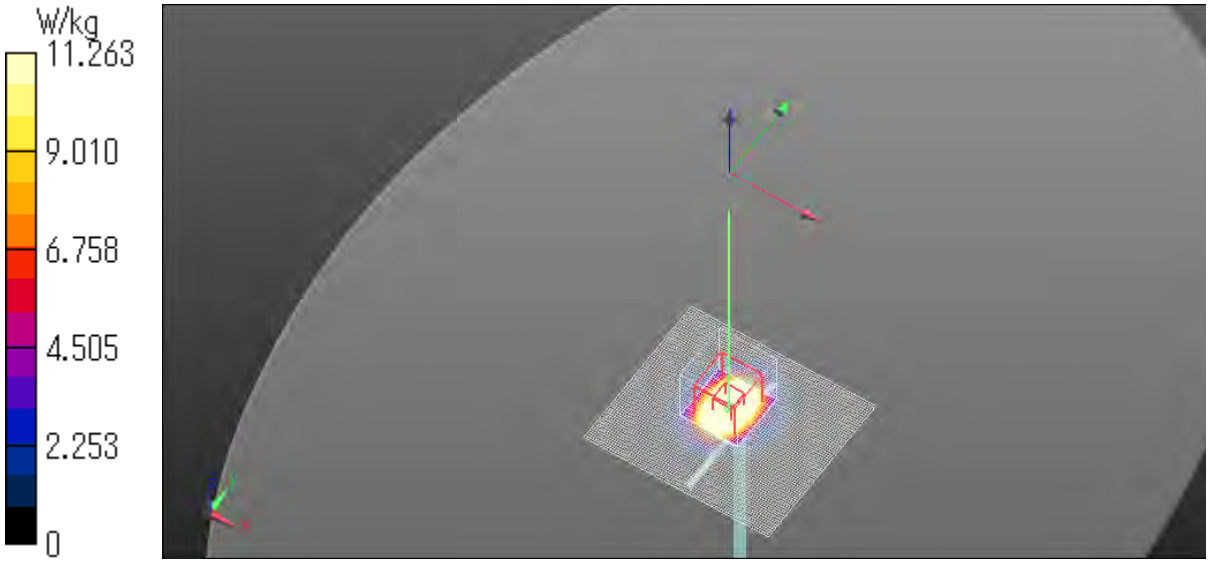
Phantom info:
Phantom: ELI v5.0 TP1207 (30 deg probe tilt)/Phantom section: Flat Section
Type: QDOVA001BB
Serial: TP:1207
Software info DASY52 52.10.4(1535) SEMCAD X 14.6.14(7501)

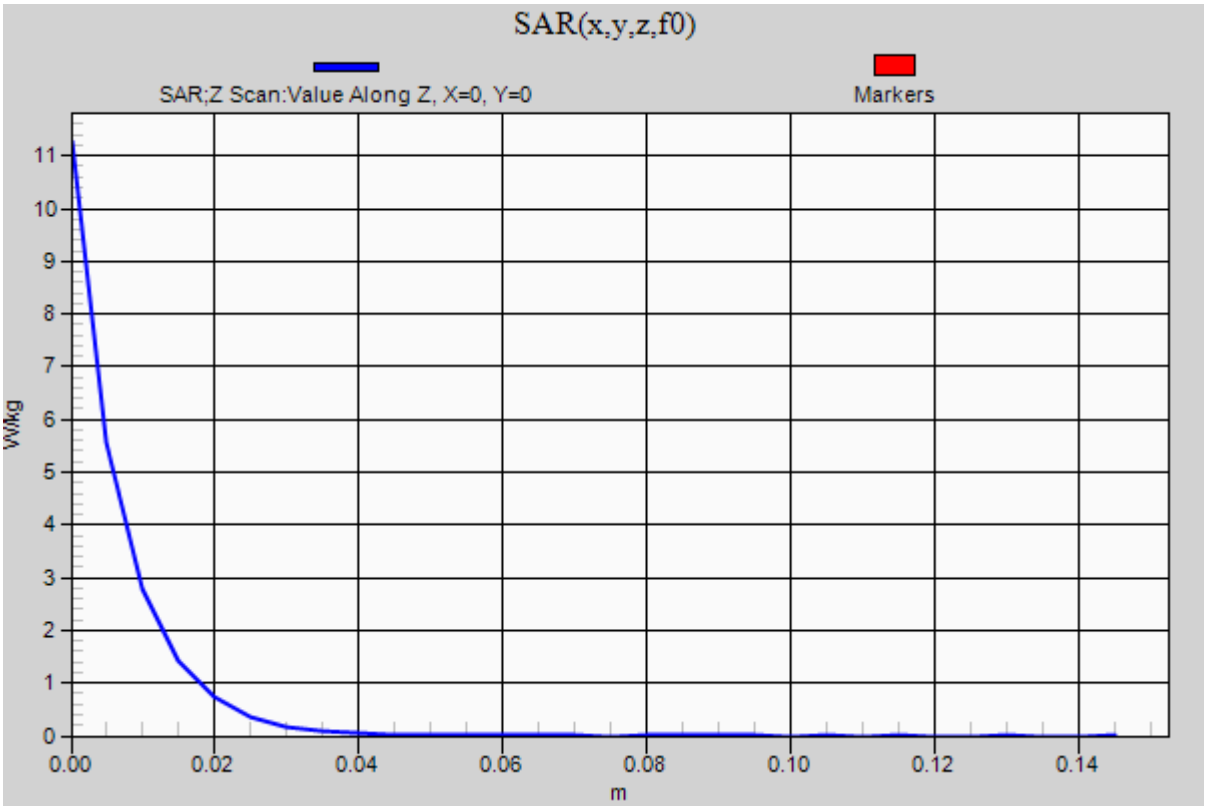
Configuration 2/250 mW 5/Area Scan (81x71x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 24.6 W/kg

Configuration 2/250 mW 5/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5 mm, dy=5 mm, dz=5 mm
Reference Value = 115.9 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 30.7 W/kg
SAR(1 g) = 14.3 W/kg; SAR(10 g) = 6.39 W/kg (SAR corrected for target medium)
Smallest distance from peaks to all points 3 dB below = 9 mm
Ratio of SAR at M2 to SAR at M1 = 46.2 %
Maximum value of SAR (measured) = 24.4 W/kg

Configuration 2/250 mW 5/Z Scan (1x1x31): Measurement grid: dx=20 mm, dy=20 mm, dz=5 mm
Maximum value of SAR (measured) = 11.3 W/kg

Note: Liquid temp. is kept within the 2 degree.C. during the test.


W/kg
11.263
9.010
6.758
4.505
2.253
0


SAR(x,y,z,f0)
SAR;Z Scan:Value Along Z, X=0, Y=0
Markers
W/kg
11
10
9
8
7
6
5
4
3
2
1
0
0.00
0.02
0.04
0.06
0.08
0.10
0.12
0.14
m

20230224 750 MHz Ambient Temp_22.5 deg.C._Liquid Temp_22.3 deg.C

Communication System info
Communication System: UID 0, #CW (0)
Communication System Band: D750 (750.0 MHz)Duty Cycle: 1:1
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

Probe info:
Probe: EX3DV4 - SN3825 / Calibrated: 2022/07/20
ConvF(9.83, 9.83, 9.83) @ 750 MHz
Medium parameters used: f = 750 MHz; σ = 0.882 S/m; ε_r = 42.275; ρ = 1000 kg/m^3
Sensor-Surface: 1.4 mm (Mechanical Surface Detection)

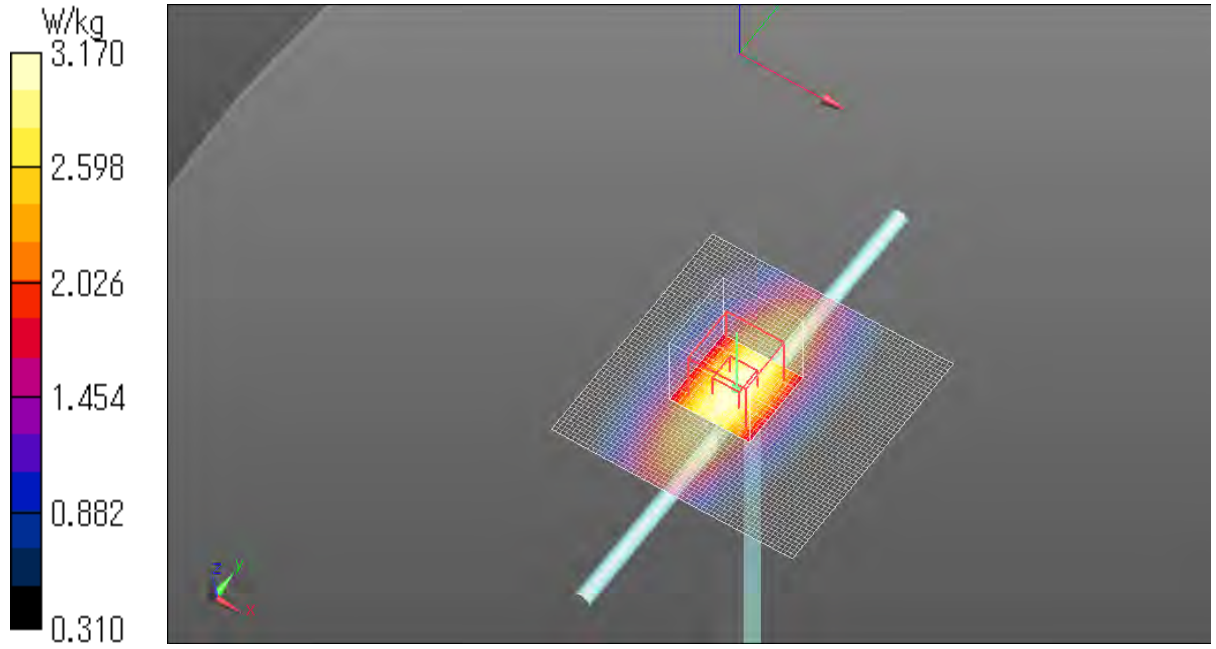
DAE info:
Electronics: DAE4 Sn1369 / Calibrated: 2022/05/09

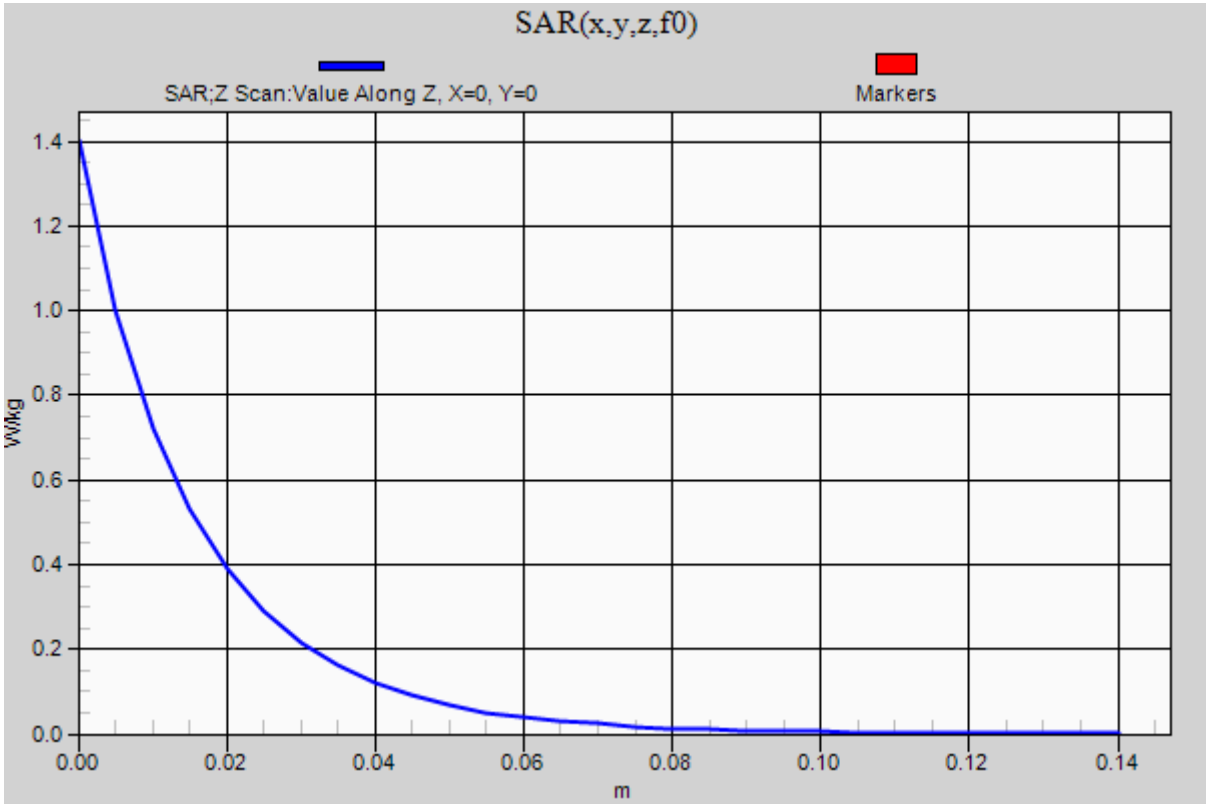
Phantom info:
Phantom: ELI v5.0 (20 deg probe tilt)/Phantom section: Flat Section
Type: QDOVA001BB
Serial: TP:1203
Software info DASY52 52.10.3(1513) SEMCAD X 14.6.13(7474)

Configuration/250 mW/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 3.09 W/kg

Configuration/250 mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5 mm, dy=5 mm, dz=5 mm
Reference Value = 62.51 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 3.70 W/kg
SAR(1 g) = 2.32 W/kg; SAR(10 g) = 1.53 W/kg
Ratio of SAR at M2 to SAR at M1 = 63.3 %
Maximum value of SAR (measured) = 3.17 W/kg

Note: Liquid temp. is kept within the 2 degree.C. during the test.


W/kg
3.170
2.598
2.026
1.454
0.882
0.310


SAR(x,y,z,f0)
SAR;Z Scan:Value Along Z, X=0, Y=0
Markers
W/kg
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
0.00
0.02
0.04
0.06
0.08
0.10
0.12
0.14
m

20230224 1750 MHz Ambient Temp_22.5 deg.C._Liquid Temp_22.3 deg.C

Communication System info
Communication System: UID 0, _CW (0)
Communication System Band: D1750 (1750.0 MHz)Duty Cycle: 1:1
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

Probe info:
Probe: EX3DV4 - SN3825 / Calibrated: 2022/07/20
ConvF(8.66, 8.66, 8.66) @ 1750 MHz
Medium parameters used: f = 1750 MHz; σ = 1.314 S/m; ε_r = 40.396; ρ = 1000 kg/m^3
Sensor-Surface: 1.4 mm (Mechanical Surface Detection), Sensor-Surface: 0 mm (Fix Surface)

DAE info:
Electronics: DAE4 Sn1369 / Calibrated: 2022/05/09

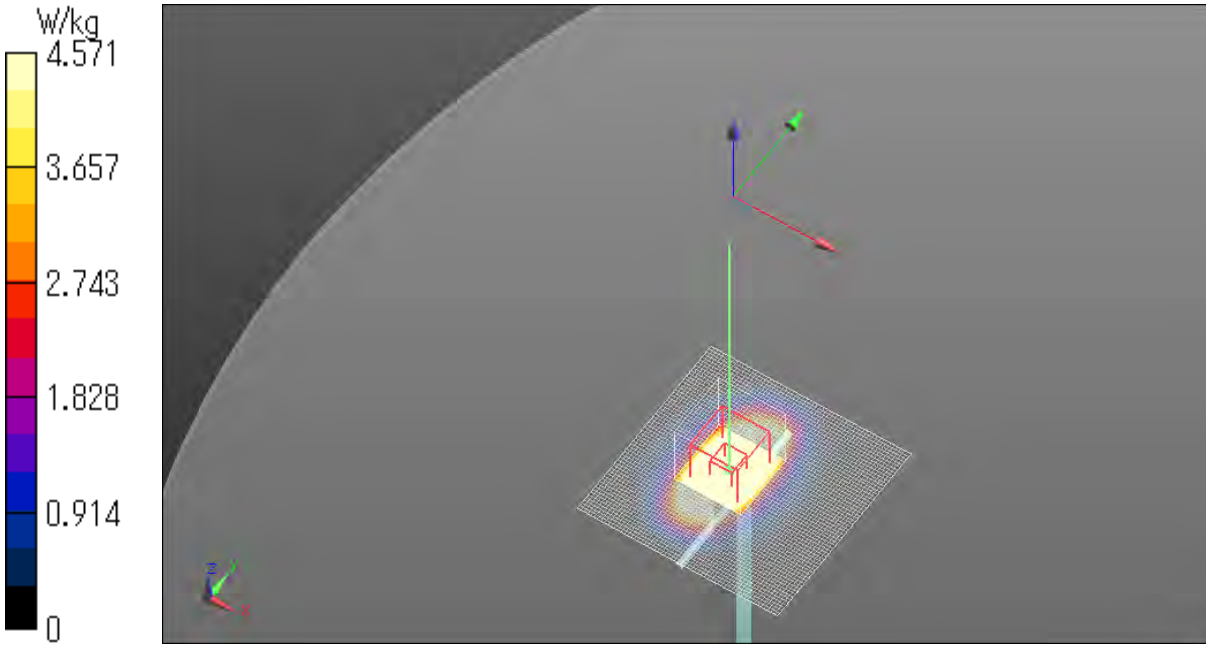
Phantom info:
Phantom: ELI v5.0 (20 deg probe tilt)/Phantom section: Flat Section
Type: QDOVA001BB
Serial: TP:1203
Software info DASY52 52.10.3(1513) SEMCAD X 14.6.13(7474)

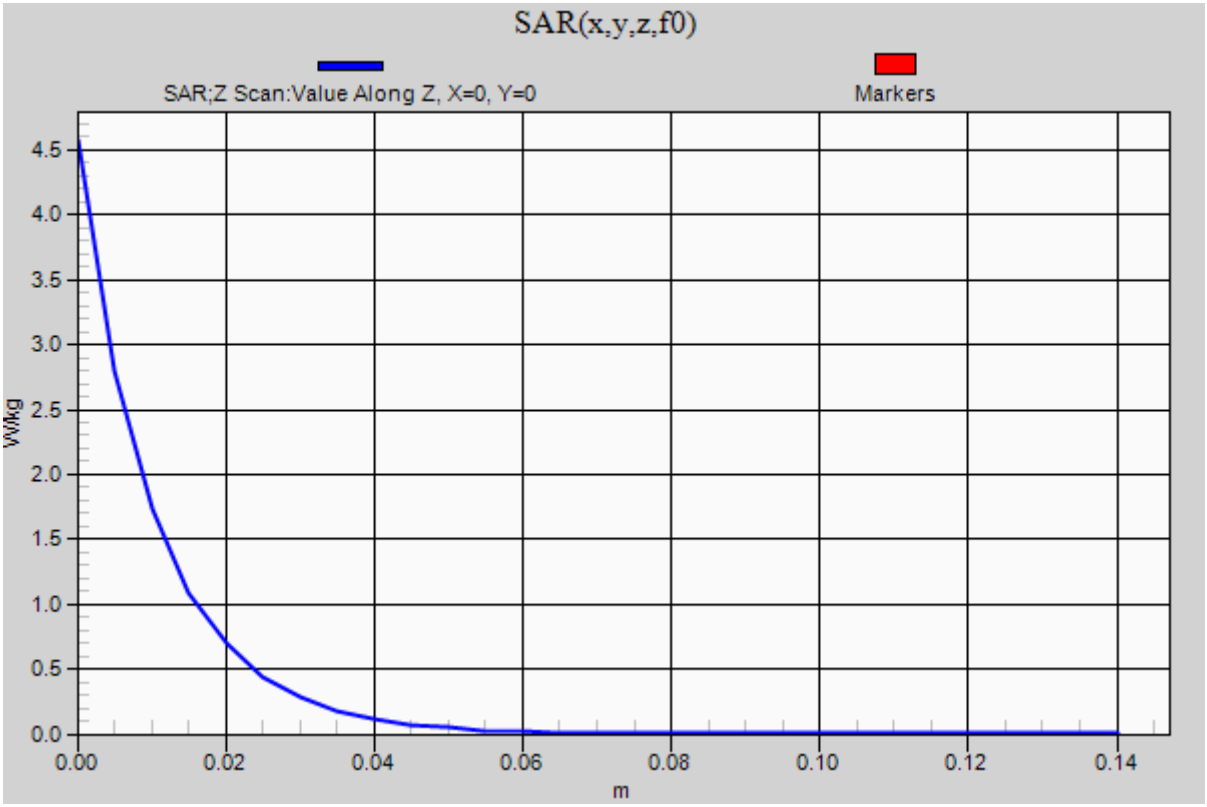
Configuration/250 mW 2/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 13.7 W/kg

Configuration/250 mW 2/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5 mm, dy=5 mm, dz=5 mm
Reference Value = 106.2 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 16.4 W/kg
SAR(1 g) = 8.96 W/kg; SAR(10 g) = 4.82 W/kg
Smallest distance from peaks to all points 3 dB below = 10 mm
Ratio of SAR at M2 to SAR at M1 = 55.7 %
Maximum value of SAR (measured) = 13.7 W/kg

Configuration/250 mW 2/Z Scan (1x1x31): Measurement grid: dx=20 mm, dy=20 mm, dz=5 mm
Maximum value of SAR (measured) = 4.57 W/kg

Note: Liquid temp. is kept within the 2 degree.C. during the test.


W/kg
4.571
3.657
2.743
1.828
0.914
0


SAR(x,y,z,f0)
SAR;Z Scan:Value Along Z, X=0, Y=0
Markers
W/kg
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.00
0.02
0.04
0.06
0.08
0.10
0.12
0.14
m

20230224 3500 MHz Ambient Temp_20.5 deg.C._Liquid Temp_20.0 deg.C

Communication System info
Communication System: UID 0, _CW (0)
Communication System Band: D3500 (3500.0 MHz)Duty Cycle: 1:1
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

Probe info:
Probe: EX3DV4 - SN3917 / Calibrated: 2022/05/17
ConvF(6.8, 6.8, 6.8) @ 3500 MHz
Medium parameters used: f = 3500 MHz; σ = 2.959 S/m; ε_r = 38.276; ρ = 1000 kg/m^3
Sensor-Surface: 1.4 mm (Mechanical Surface Detection)

DAE info:
Electronics: DAE4 Sn509 / Calibrated: 2022/07/13

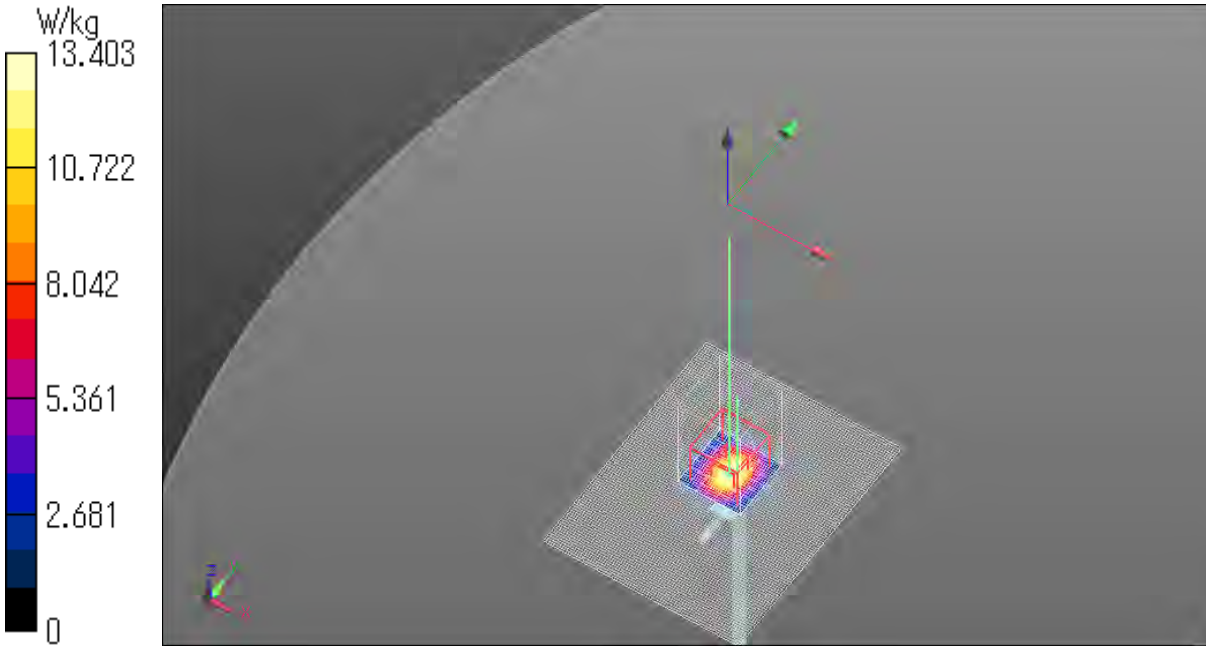
Phantom info:
Phantom: ELI v5.0 TP1207 (30 deg probe tilt)/Phantom section: Flat Section
Type: QDOVA001BB
Serial: TP:1207
Software info DASY52 52.10.4(1535) SEMCAD X 14.6.14(7501)

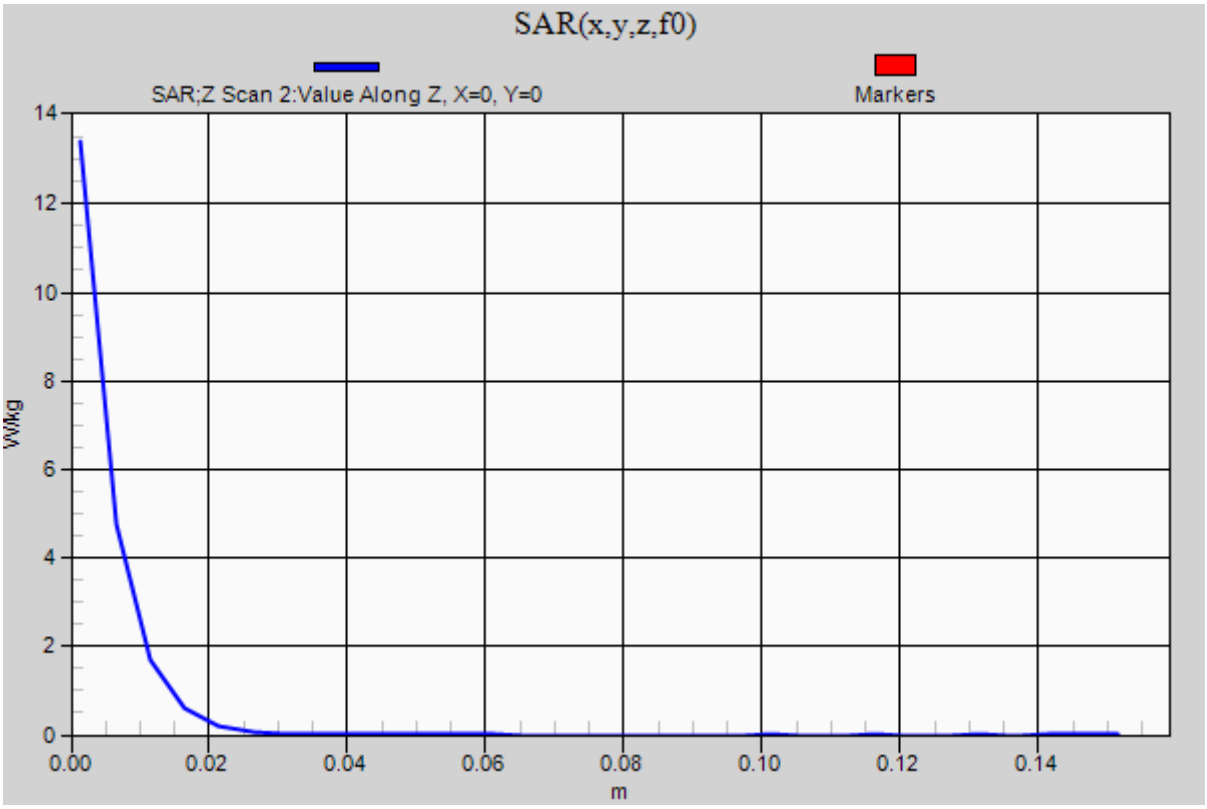
SPC/3500 MHz/Area Scan (81x101x1): Interpolated grid: dx=1.100 mm, dy=1.100 mm
Maximum value of SAR (interpolated) = 13.5 W/kg

SPC/3500 MHz/Zoom Scan (8x8x9)/Cube 0: Measurement grid: dx=4 mm, dy=4 mm, dz=1.4 mm
Reference Value = 70.86 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 18.1 W/kg
SAR(1 g) = 6.75 W/kg; SAR(10 g) = 2.54 W/kg
Smallest distance from peaks to all points 3 dB below = 8.8 mm
Ratio of SAR at M2 to SAR at M1 = 75 %
Maximum value of SAR (measured) = 12.8 W/kg

SPC/3500 MHz/Z Scan 2 (1x1x31): Measurement grid: dx=20 mm, dy=20 mm, dz=5 mm
Maximum value of SAR (measured) = 13.4 W/kg

Note: Liquid temp. is kept within the 2 degree.C. during the test.


W/kg
13.403
10.722
8.042
5.361
2.681
0


SAR(x,y,z,f0)
SAR;Z Scan 2:Value Along Z, X=0, Y=0
Markers
W/kg
14
12
10
8
6
4
2
0
0.00
0.02
0.04
0.06
0.08
0.10
0.12
0.14
m

20230224 3700 MHz Ambient Temp_20.5 deg.C._Liquid Temp_20.0 deg.C

Communication System info
Communication System: UID 0, _CW (0)
Communication System Band: D3700 (3700.0 MHz)Duty Cycle: 1:1
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

Probe info:
Probe: EX3DV4 - SN3917 / Calibrated: 2022/05/17
ConvF(6.6, 6.6, 6.6) @ 3700 MHz
Medium parameters used: f = 3700 MHz; σ = 3.131 S/m; ε_r = 37.956; ρ = 1000 kg/m^3
Sensor-Surface: 1.4 mm (Mechanical Surface Detection)

DAE info:
Electronics: DAE4 Sn509 / Calibrated: 2022/07/13

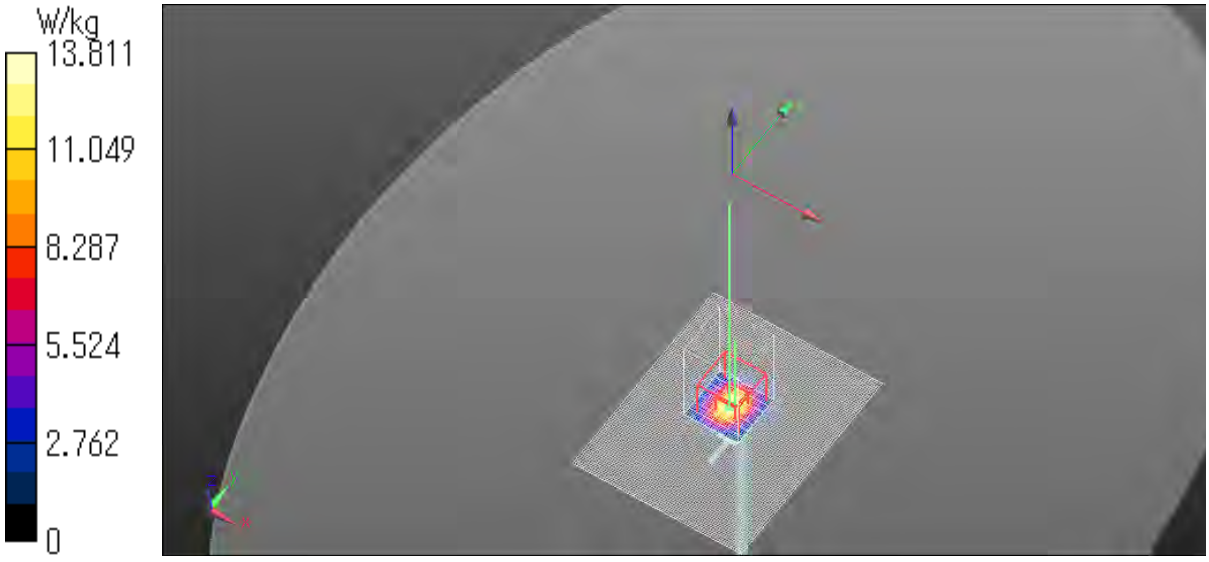
Phantom info:
Phantom: ELI v5.0 TP1207 (30 deg probe tilt)/Phantom section: Flat Section
Type: QDOVA001BB
Serial: TP:1207
Software info DASY52 52.10.4(1535) SEMCAD X 14.6.14(7501)

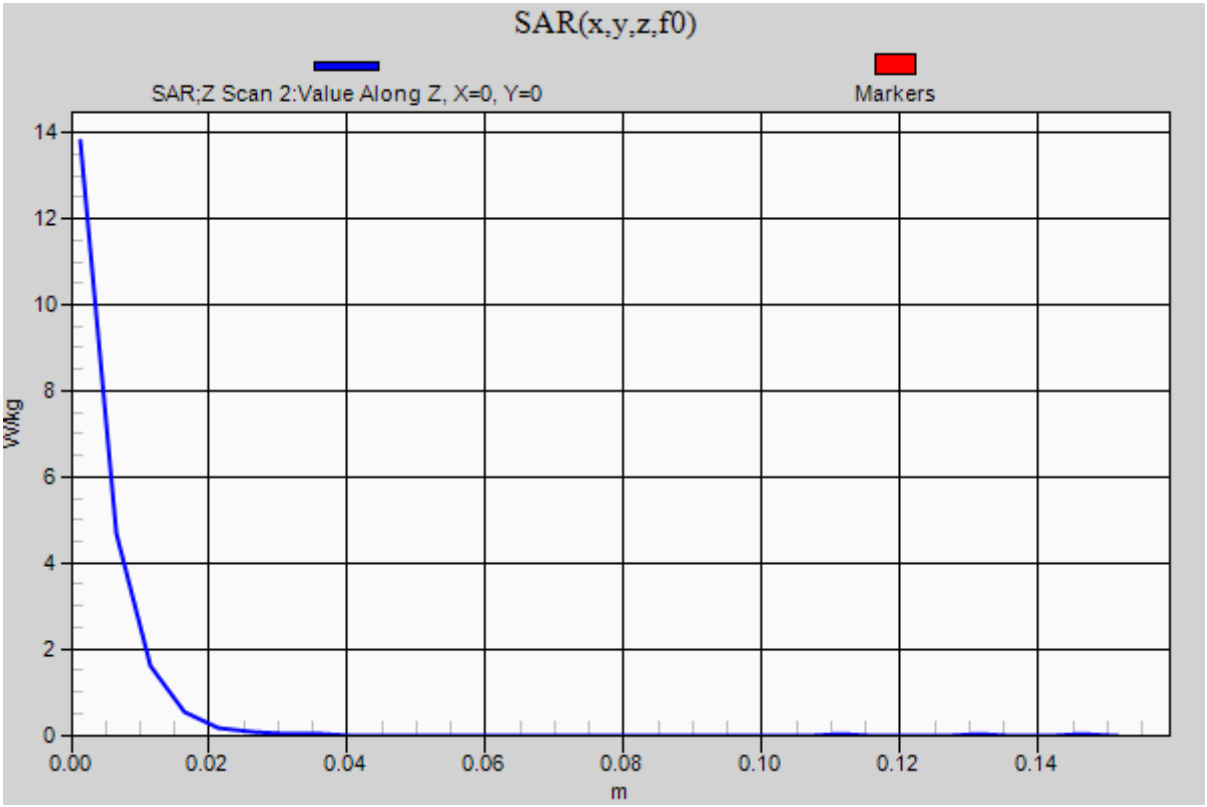
SPC/3700 MHz/Area Scan (81x101x1): Interpolated grid: dx=1.100 mm, dy=1.100 mm
Maximum value of SAR (interpolated) = 14.4 W/kg

SPC/3700 MHz/Zoom Scan (8x8x9)/Cube 0: Measurement grid: dx=4 mm, dy=4 mm, dz=1.4 mm
Reference Value = 70.10 V/m; Power Drift = -0.11 dB
Peak SAR (extrapolated) = 19.2 W/kg
SAR(1 g) = 6.83 W/kg; SAR(10 g) = 2.48 W/kg
Smallest distance from peaks to all points 3 dB below = 8.4 mm
Ratio of SAR at M2 to SAR at M1 = 73.7 %
Maximum value of SAR (measured) = 13.5 W/kg

SPC/3700 MHz/Z Scan 2 (1x1x31): Measurement grid: dx=20 mm, dy=20 mm, dz=5 mm
Maximum value of SAR (measured) = 13.8 W/kg

Note: Liquid temp. is kept within the 2 degree.C. during the test.


W/kg
13.811
11.049
8.287
5.524
2.762
0


SAR(x,y,z,f0)
SAR;Z Scan 2:Value Along Z, X=0, Y=0
Markers
W/kg
14
12
10
8
6
4
2
0
0.00
0.02
0.04
0.06
0.08
0.10
0.12
0.14
m

20230302 10 GHz Ambient Temp_21.0 deg.C._

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Device,	75.0 x 50.0 x 170.0		Phone

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor
5G	FRONT, 10.00	Validation band	CW, 0--	10000.0, 10000	1.0

Hardware Setup

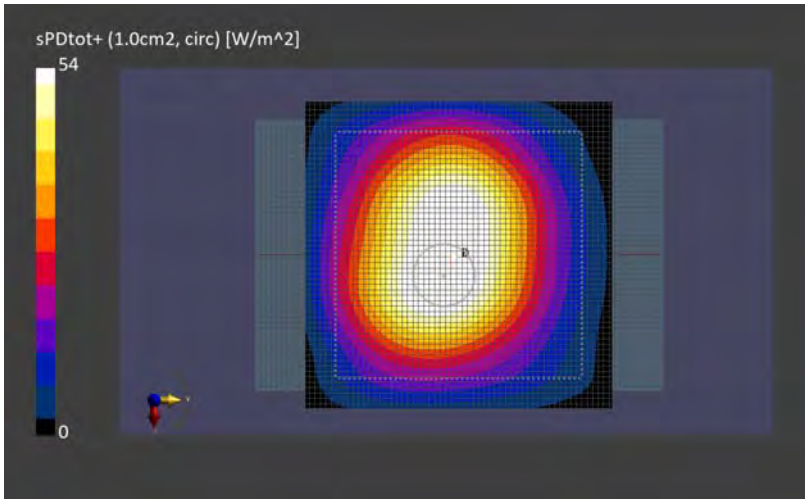
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1038	Air -	EUmmWV4 - SN9450_F1-55GHz, 2022-11-17	DAE4 Sn1369, 2022-05-09

Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	25.0 x 25.0
Grid Steps [lambda]	0.125 x 0.125
Sensor Surface [mm]	10.0
MAIA	N/A

Measurement Results

Scan Type	5G Scan
Date	2023-03-02, 17:55
Avg. Area [cm²]	4.00
psPDn+ [W/m²]	53.7
psPDtot+ [W/m²]	54.0
psPDmod+ [W/m²]	54.4
E_{max} [V/m]	154
Power Drift [dB]	0.02



20230313 1750 MHz Ambient Temp_22.6 deg.C._Liquid Temp_22.1 deg.C

Communication System info
Communication System: UID 0, _CW (0)
Communication System Band: D1750 (1750.0 MHz)Duty Cycle: 1:1
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

Probe info:
Probe: EX3DV4 - SN3917 / Calibrated: 2022/05/17
ConvF(8.4, 8.4, 8.4) @ 1750 MHz
Medium parameters used: f = 1750 MHz; σ = 1.322 S/m; ε_r = 39.006; ρ = 1000 kg/m^3
Sensor-Surface: 1.4mm (Mechanical Surface Detection), Sensor-Surface: 0mm (Fix Surface)

DAE info:
Electronics: DAE4 Sn509 / Calibrated: 2022/07/13

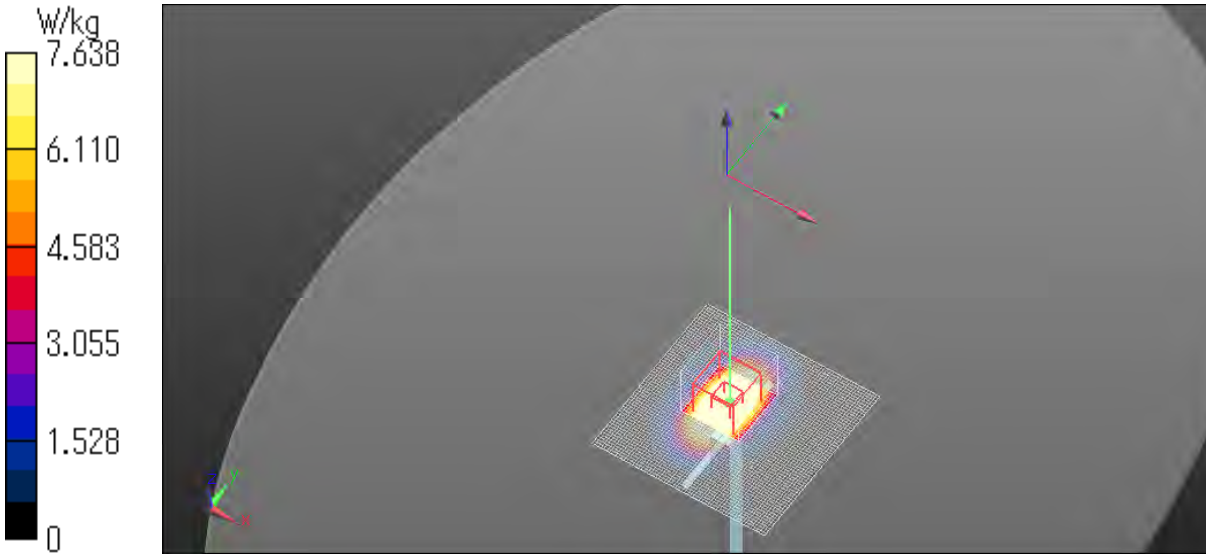
Phantom info:
Phantom: ELI v5.0 (20deg probe tilt)/Phantom section: Flat Section
Type: QDOVA001BB
Serial: TP:1203
Software info DASY52 52.10.4(1535) SEMCAD X 14.6.14(7501)

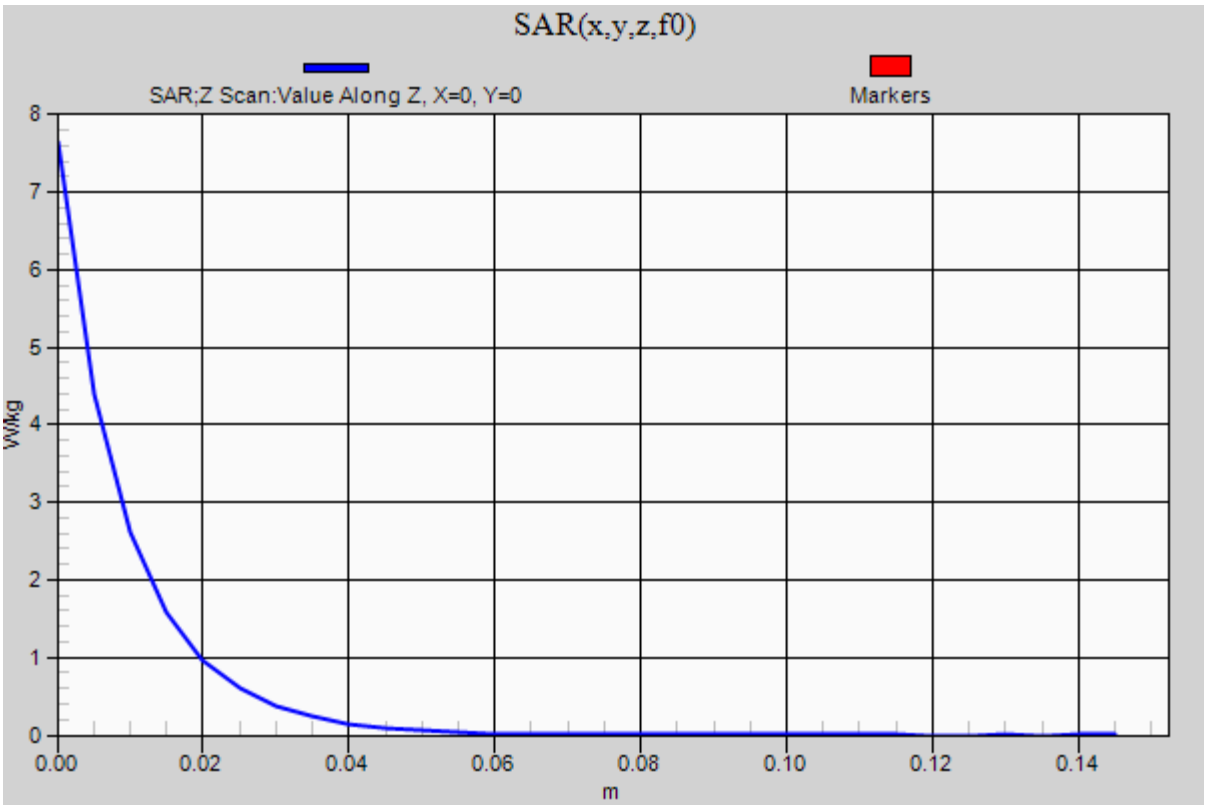
Configuration/250mW/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 14.0 W/kg

Configuration/250mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 105.9 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 17.3 W/kg
SAR(1 g) = 9.33 W/kg; SAR(10 g) = 4.93 W/kg (SAR corrected for target medium)
Smallest distance from peaks to all points 3 dB below = 10 mm
Ratio of SAR at M2 to SAR at M1 = 53.3%
Maximum value of SAR (measured) = 14.3 W/kg

Configuration/250mW/Z Scan (1x1x31): Measurement grid: dx=20mm, dy=20mm, dz=5mm
Maximum value of SAR (measured) = 7.64 W/kg

Note: Liquid temp. is kept within the 2 degree.C. during the test.


W/kg
7.638
6.110
4.583
3.055
1.528
0


SAR(x,y,z,f0)
SAR;Z Scan:Value Along Z, X=0, Y=0
Markers
W/kg
8
7
6
5
4
3
2
1
0
0.00
0.02
0.04
0.06
0.08
0.10
0.12
0.14
m