

Dipole Verification Plots

DIGITAL EMC CO., LTD

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:4d159

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.898 \text{ S/m}$; $\epsilon_r = 40.141$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3933; ConvF(10.06, 10.06, 10.06); Calibrated: 9/24/2013; ; Electronics: DAE4 Sn1396

Phantom: SAM with CRP_2013_10_08_middle; Type: QD000P40CD; Serial: TP:1786

Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Test Date: 2014-01-24; Ambient Temp: 20.9; Tissue Temp: 21.5

835 MHz System Verification

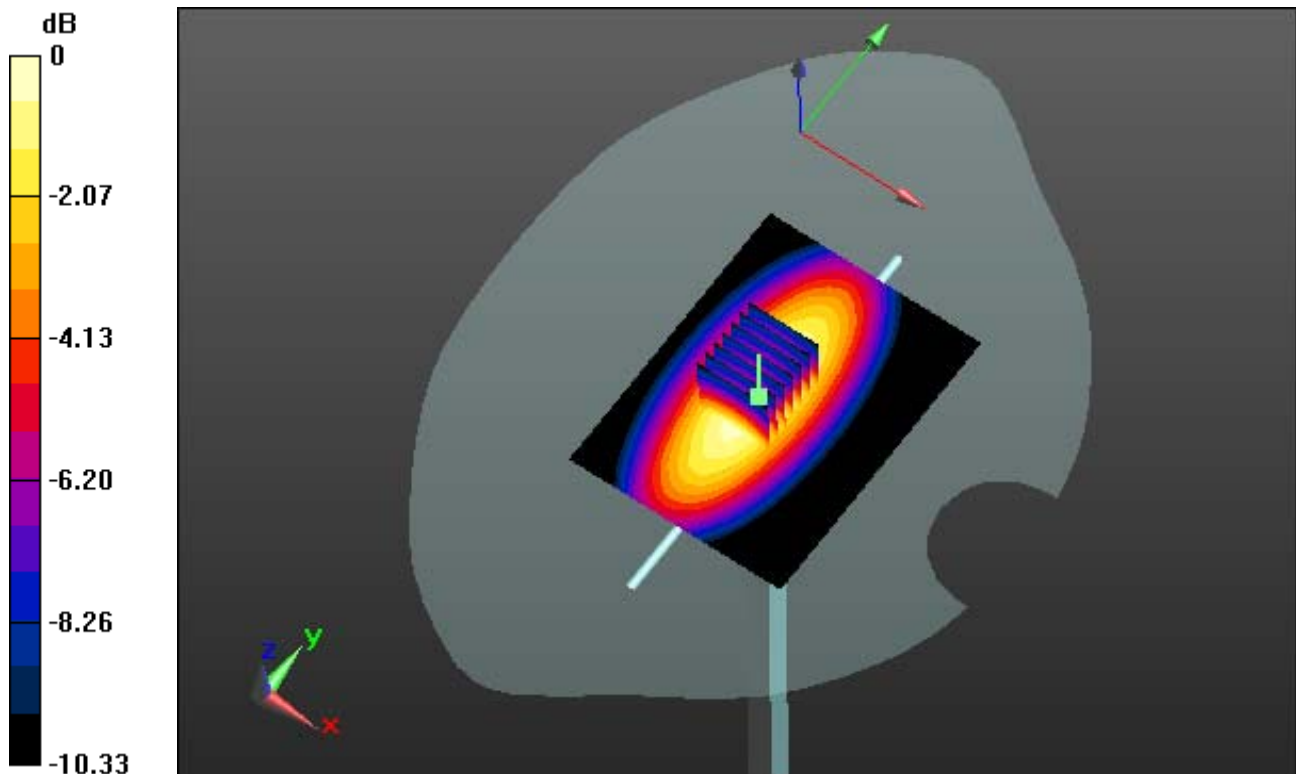
Area Scan (61x81x1): Interpolated grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Power Drift = -0.03 dB

Peak SAR (extrapolated) = 3.32 W/kg

SAR(1 g) = 2.23 W/kg; SAR(10 g) = 1.48 W/kg



0 dB = 2.68 W/kg

DIGITAL EMC CO., LTD

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:4d159

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.898 \text{ S/m}$; $\epsilon_r = 40.141$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3933; ConvF(10.06, 10.06, 10.06); Calibrated: 9/24/2013; ; Electronics: DAE4 Sn1396

Phantom: SAM with CRP_2013_10_08_middle; Type: QD000P40CD; Serial: TP:1786

Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Test Date: 2014-01-24; Ambient Temp: 20.9; Tissue Temp: 21.5

835 MHz System Verification

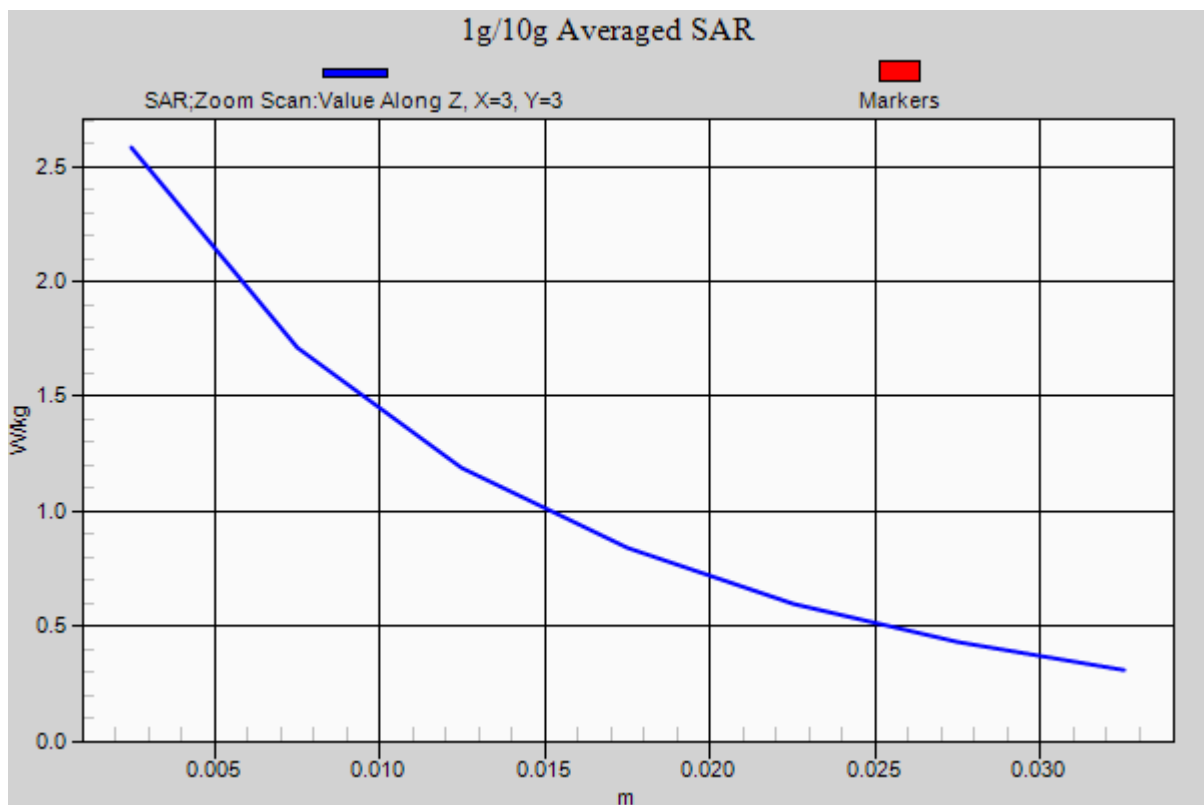
Area Scan (61x81x1): Interpolated grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Power Drift = -0.03 dB

Peak SAR (extrapolated) = 3.32 W/kg

SAR(1 g) = 2.23 W/kg; SAR(10 g) = 1.48 W/kg



DIGITAL EMC CO., LTD

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:4d159

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.979 \text{ S/m}$; $\epsilon_r = 53.648$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3933; ConvF(9.79, 9.79, 9.79); Calibrated: 9/24/2013; ; Electronics: DAE4 Sn1396

Phantom: SAM with CRP_2013_10_08_middle; Type: QD000P40CD; Serial: TP:1786

Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Test Date: 2014-01-25; Ambient Temp: 20.6; Tissue Temp: 21.2

835 MHz System Verification

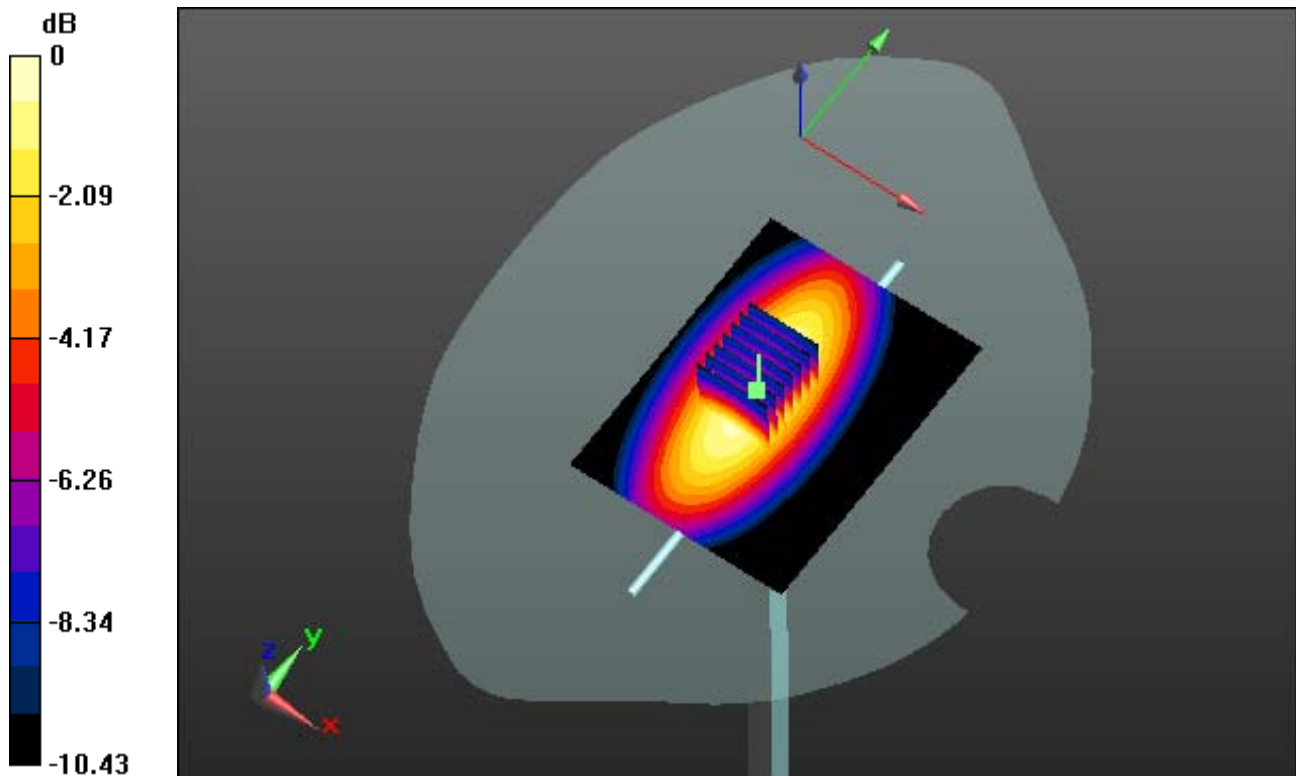
Area Scan (61x81x1): Interpolated grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Power Drift = -0.03 dB

Peak SAR (extrapolated) = 3.35 W/kg

SAR(1 g) = 2.24 W/kg; SAR(10 g) = 1.5 W/kg



0 dB = 2.71 W/kg

DIGITAL EMC CO., LTD

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:4d159

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 835$ MHz; $\sigma = 0.979$ S/m; $\epsilon_r = 53.648$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3933; ConvF(9.79, 9.79, 9.79); Calibrated: 9/24/2013; ; Electronics: DAE4 Sn1396

Phantom: SAM with CRP_2013_10_08_middle; Type: QD000P40CD; Serial: TP:1786

Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Test Date: 2014-01-25; Ambient Temp: 20.6; Tissue Temp: 21.2

835 MHz System Verification

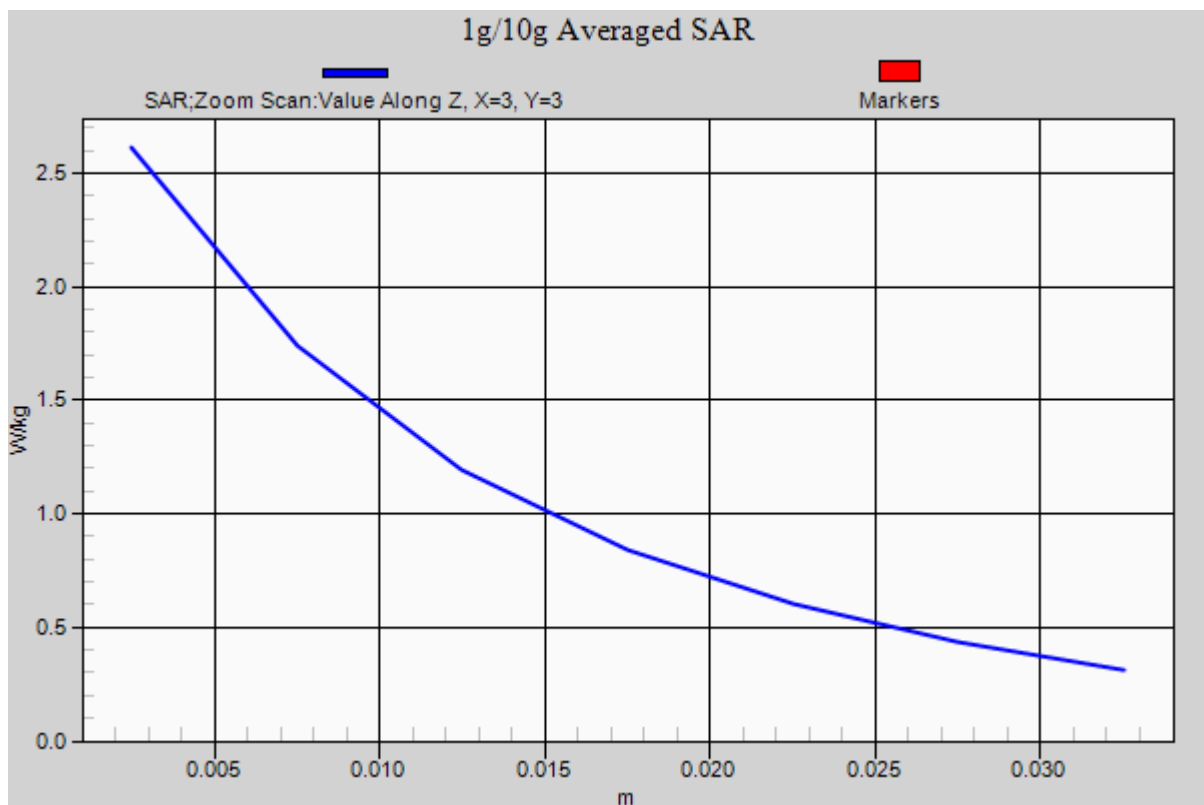
Area Scan (61x81x1): Interpolated grid: dx=15mm, dy=15mm

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

Power Drift = -0.03 dB

Peak SAR (extrapolated) = 3.35 W/kg

SAR(1 g) = 2.24 W/kg; SAR(10 g) = 1.5 W/kg



DIGITAL EMC CO., LTD

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:4d159

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.952 \text{ S/m}$; $\epsilon_r = 54.088$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3933; ConvF(9.79, 9.79, 9.79); Calibrated: 9/24/2013; ; Electronics: DAE4 Sn1396

Phantom: SAM with CRP_2013_10_08_middle; Type: QD000P40CD; Serial: TP:1786

Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Test Date: 2014-02-10; Ambient Temp: 20.7; Tissue Temp: 21.2

835 MHz System Verification

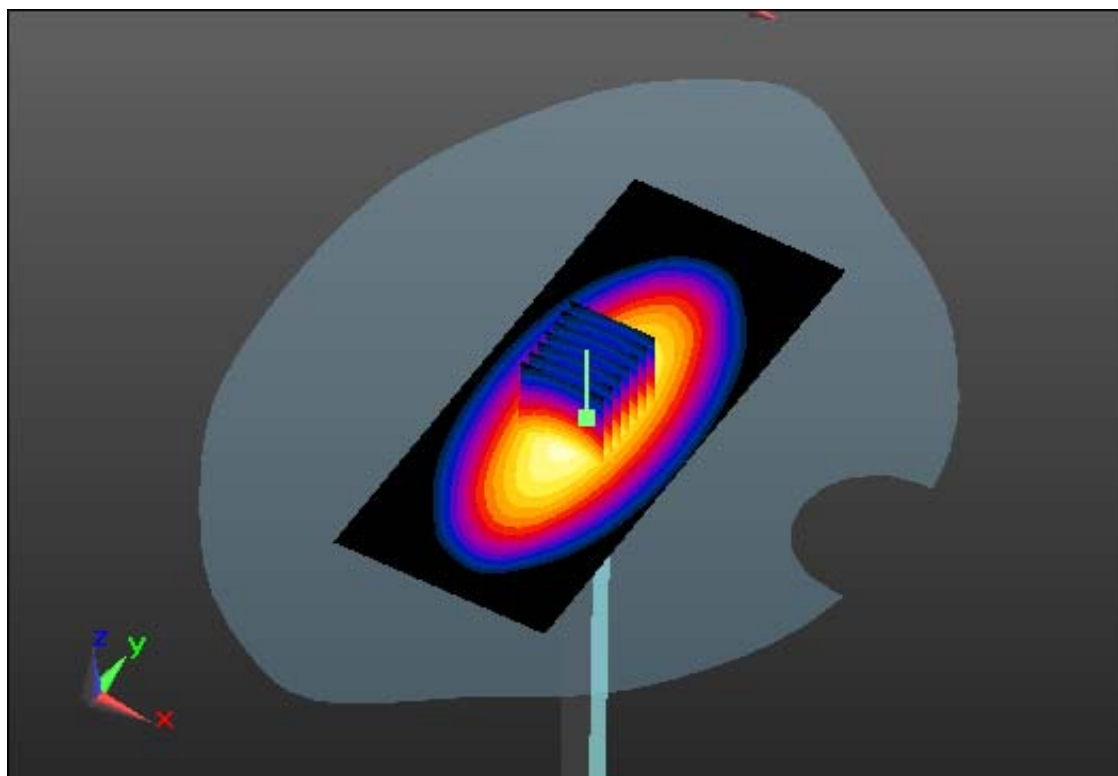
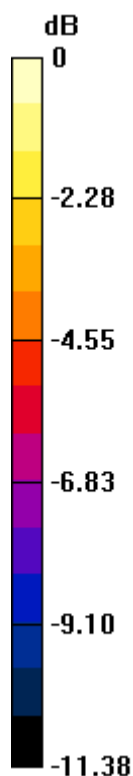
Area Scan (51x121x1): Interpolated grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Power Drift = -0.04 dB

Peak SAR (extrapolated) = 3.80 W/kg

SAR(1 g) = 2.47 W/kg; SAR(10 g) = 1.59 W/kg



0 dB = 3.17 W/kg

DIGITAL EMC CO., LTD

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:4d159

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 835$ MHz; $\sigma = 0.952$ S/m; $\epsilon_r = 54.088$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3933; ConvF(9.79, 9.79, 9.79); Calibrated: 9/24/2013; ; Electronics: DAE4 Sn1396

Phantom: SAM with CRP_2013_10_08_middle; Type: QD000P40CD; Serial: TP:1786

Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Test Date: 2014-02-10; Ambient Temp: 20.7; Tissue Temp: 21.2

835 MHz System Verification

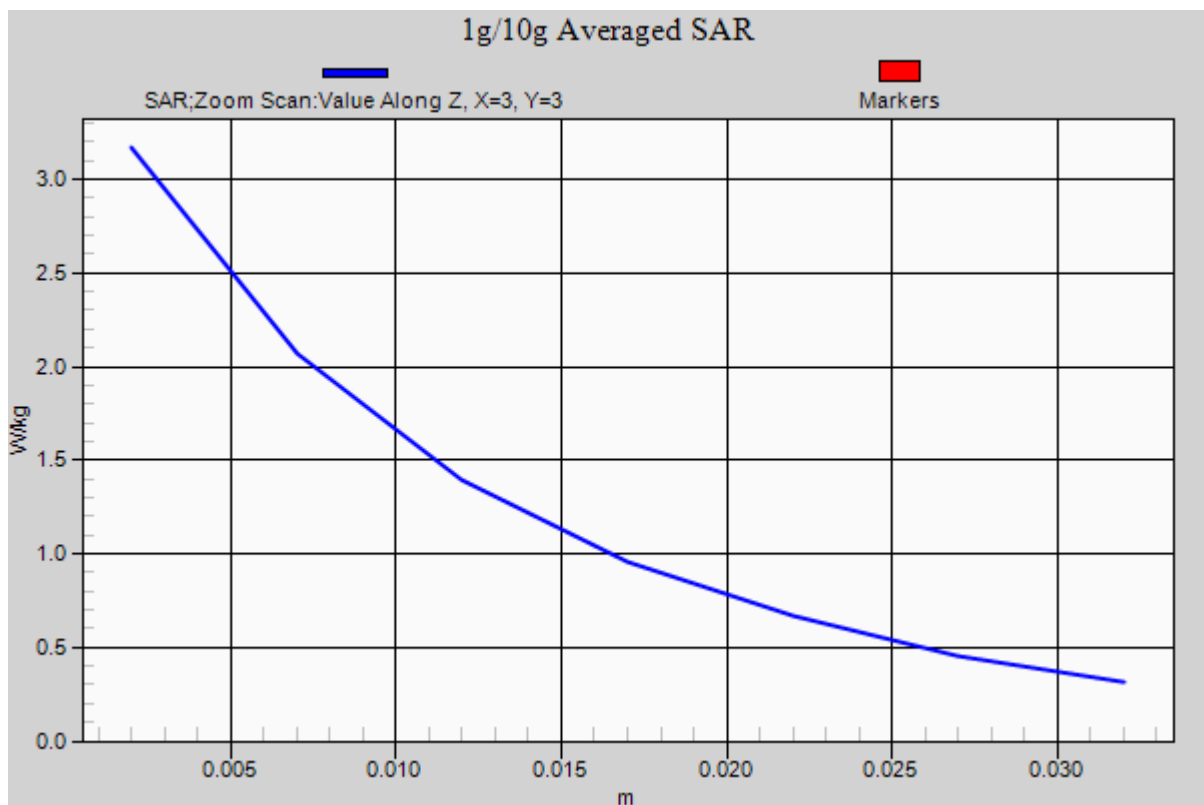
Area Scan (51x121x1): Interpolated grid: dx=15mm, dy=15mm

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

Power Drift = -0.04 dB

Peak SAR (extrapolated) = 3.80 W/kg

SAR(1 g) = 2.47 W/kg; SAR(10 g) = 1.59 W/kg



DIGITAL EMC CO., LTD

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:5d176

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.436$ S/m; $\epsilon_r = 39.118$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3933; ConvF(8.25, 8.25, 8.25); Calibrated: 9/24/2013; ; Electronics: DAE4 Sn1396

Phantom: SAM with CRP_2013_10_08_middle; Type: QD000P40CD; Serial: TP:1786

Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Test Date: 2014-01-22; Ambient Temp: 21.0; Tissue Temp: 21.6

1900 MHz System Verification

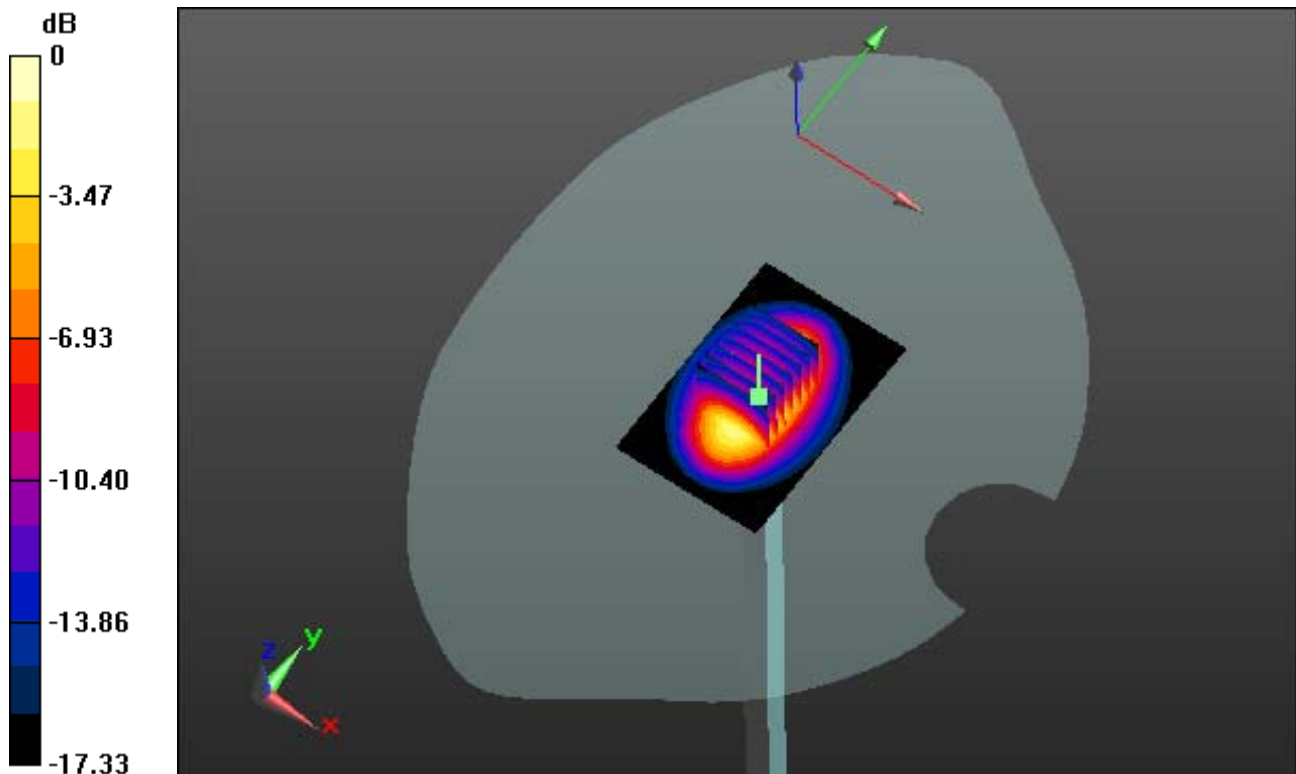
Area Scan (61x91x1): Interpolated grid: dx=15mm, dy=15mm

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

Power Drift = 0.04 dB

Peak SAR (extrapolated) = 17.6 W/kg

SAR(1 g) = 9.51 W/kg; SAR(10 g) = 5.01 W/kg



0 dB = 12.9 W/kg

DIGITAL EMC CO., LTD

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:5d176

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.436$ S/m; $\epsilon_r = 39.118$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3933; ConvF(8.25, 8.25, 8.25); Calibrated: 9/24/2013; ; Electronics: DAE4 Sn1396

Phantom: SAM with CRP_2013_10_08_middle; Type: QD000P40CD; Serial: TP:1786

Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Test Date: 2014-01-22; Ambient Temp: 21.0; Tissue Temp: 21.6

1900 MHz System Verification

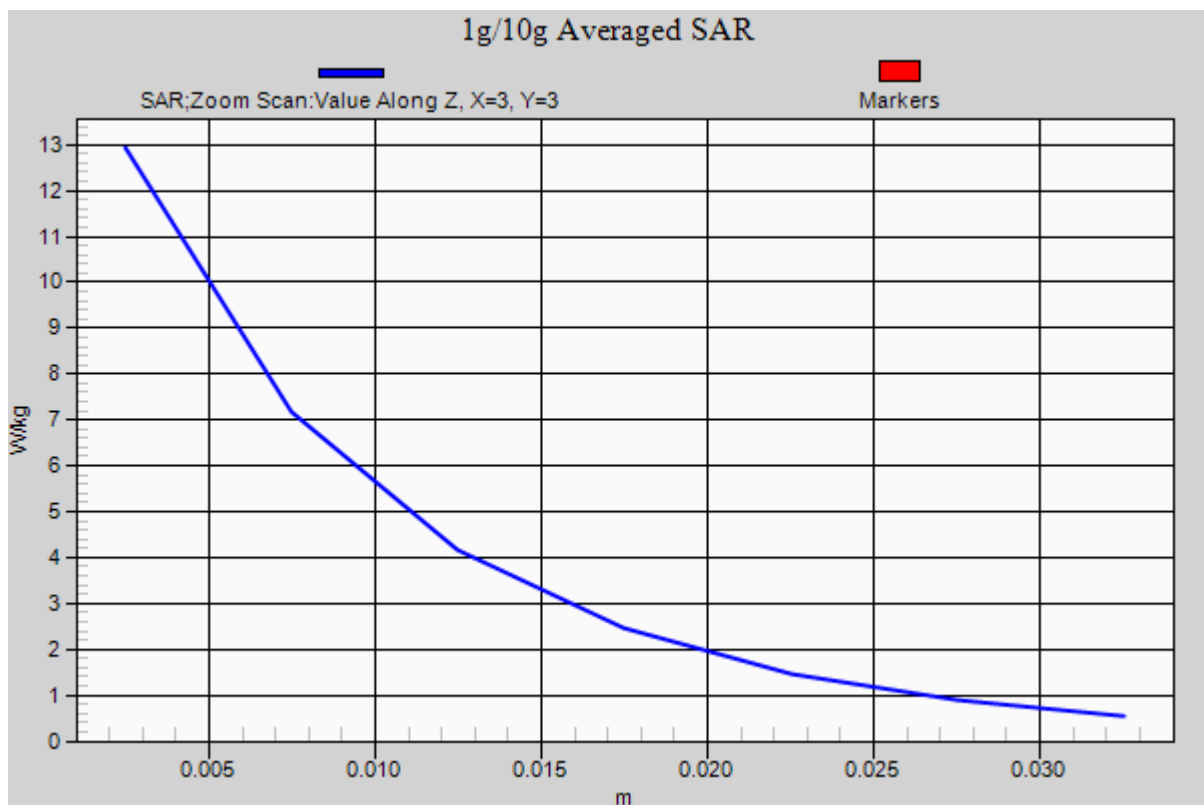
Area Scan (61x91x1): Interpolated grid: dx=15mm, dy=15mm

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

Power Drift = 0.04 dB

Peak SAR (extrapolated) = 17.6 W/kg

SAR(1 g) = 9.51 W/kg; SAR(10 g) = 5.01 W/kg



DIGITAL EMC CO., LTD

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:5d176

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1900 \text{ MHz}$; $\sigma = 1.418 \text{ S/m}$; $\epsilon_r = 40.123$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3933; ConvF(8.25, 8.25, 8.25); Calibrated: 9/24/2013; ; Electronics: DAE4 Sn1396

Phantom: SAM with CRP_2013_10_08_middle; Type: QD000P40CD; Serial: TP:1786

Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Test Date: 2014-02-10; Ambient Temp: 20.7; Tissue Temp: 21.0

1900 MHz System Verification

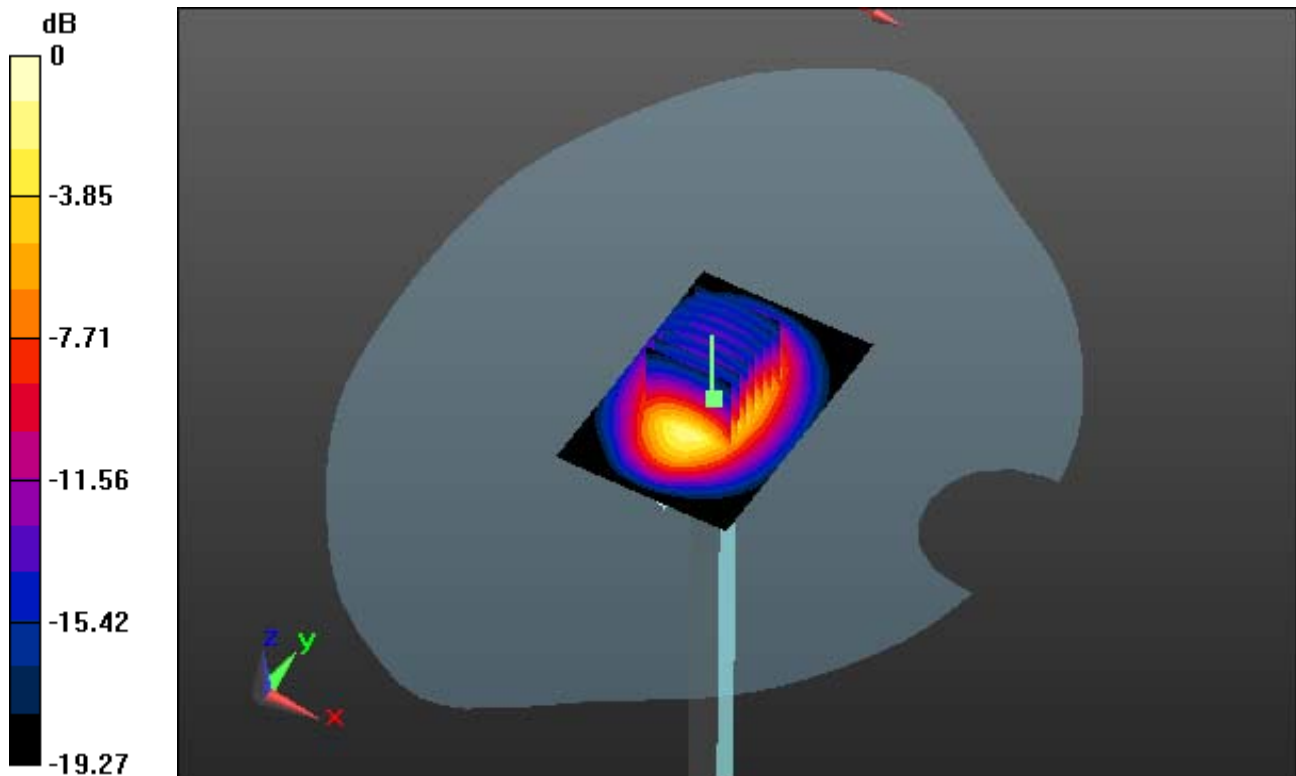
Area Scan (61x91x1): Interpolated grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Power Drift = 0.00 dB

Peak SAR (extrapolated) = 18.5 W/kg

SAR(1 g) = 9.46 W/kg; SAR(10 g) = 4.92 W/kg



0 dB = 12.9 W/kg

DIGITAL EMC CO., LTD

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:5d176

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.418$ S/m; $\epsilon_r = 40.123$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3933; ConvF(8.25, 8.25, 8.25); Calibrated: 9/24/2013; ; Electronics: DAE4 Sn1396

Phantom: SAM with CRP_2013_10_08_middle; Type: QD000P40CD; Serial: TP:1786

Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Test Date: 2014-02-10; Ambient Temp: 20.7; Tissue Temp: 21.0

1900 MHz System Verification

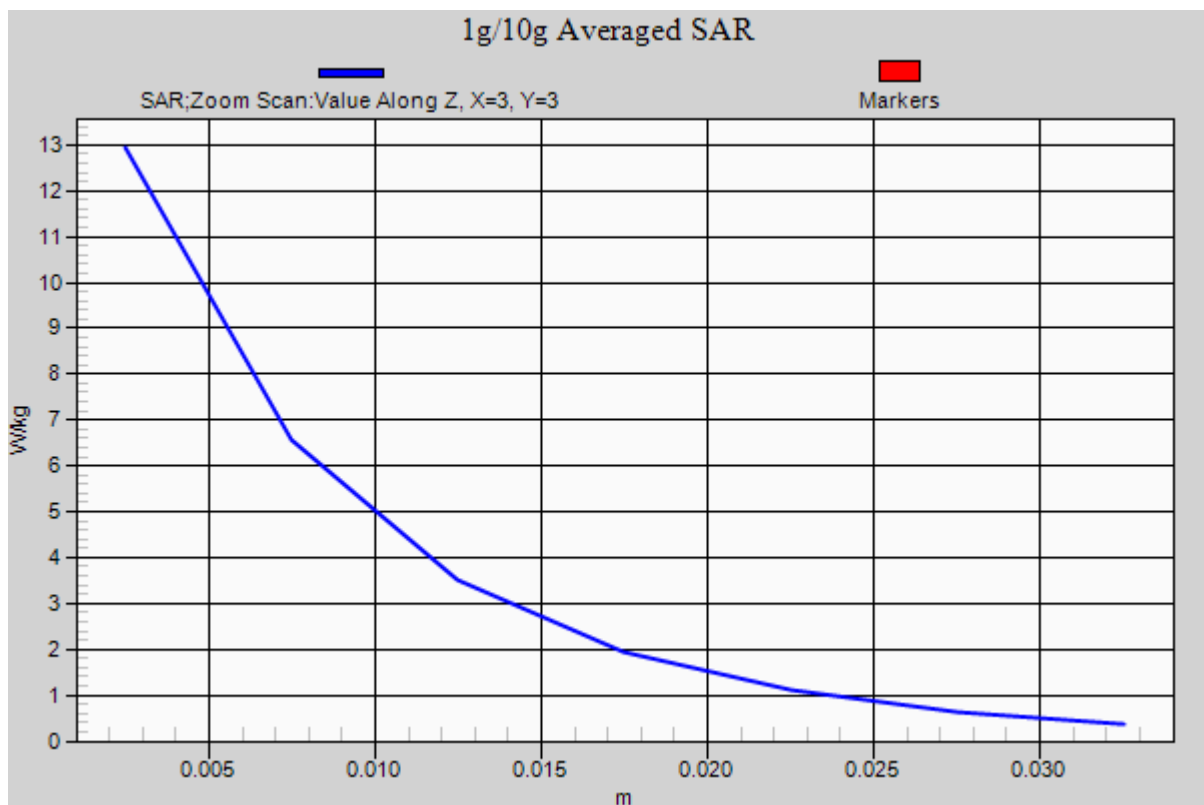
Area Scan (61x91x1): Interpolated grid: dx=15mm, dy=15mm

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

Power Drift = 0.00 dB

Peak SAR (extrapolated) = 18.5 W/kg

SAR(1 g) = 9.46 W/kg; SAR(10 g) = 4.92 W/kg



DIGITAL EMC CO., LTD

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:5d176

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.549$ S/m; $\epsilon_r = 52.764$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3933; ConvF(7.79, 7.79, 7.79); Calibrated: 9/24/2013; ; Electronics: DAE4 Sn1396

Phantom: SAM with CRP_2013_10_08_middle; Type: QD000P40CD; Serial: TP:1786

Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Test Date: 2014-01-23; Ambient Temp: 20.8; Tissue Temp: 21.3

1900 MHz System Verification

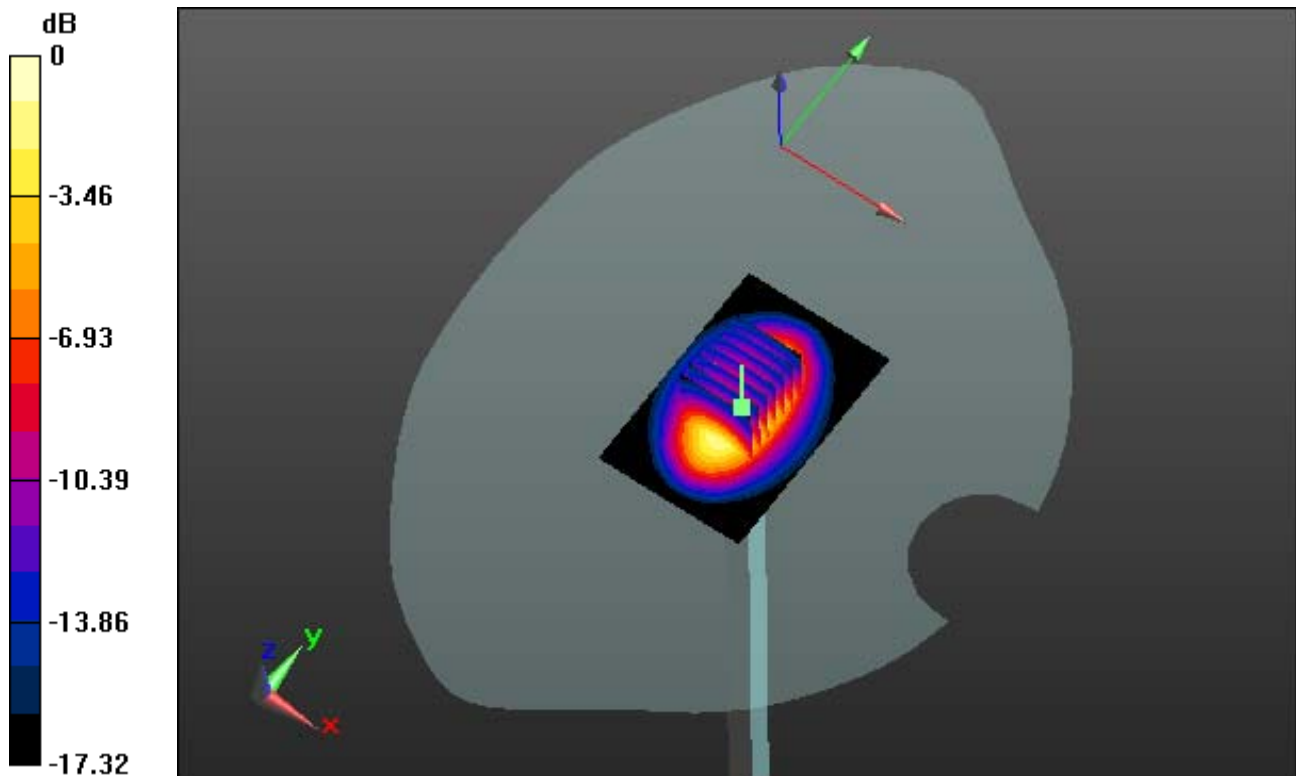
Area Scan (61x91x1): Interpolated grid: dx=15mm, dy=15mm

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

Power Drift = 0.04 dB

Peak SAR (extrapolated) = 20.0 W/kg

SAR(1 g) = 10.8 W/kg; SAR(10 g) = 5.6 W/kg



0 dB = 14.7 W/kg

DIGITAL EMC CO., LTD

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:5d176

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.549$ S/m; $\epsilon_r = 52.764$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3933; ConvF(7.79, 7.79, 7.79); Calibrated: 9/24/2013; ; Electronics: DAE4 Sn1396

Phantom: SAM with CRP_2013_10_08_middle; Type: QD000P40CD; Serial: TP:1786

Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Test Date: 2014-01-23; Ambient Temp: 20.8; Tissue Temp: 21.3

1900 MHz System Verification

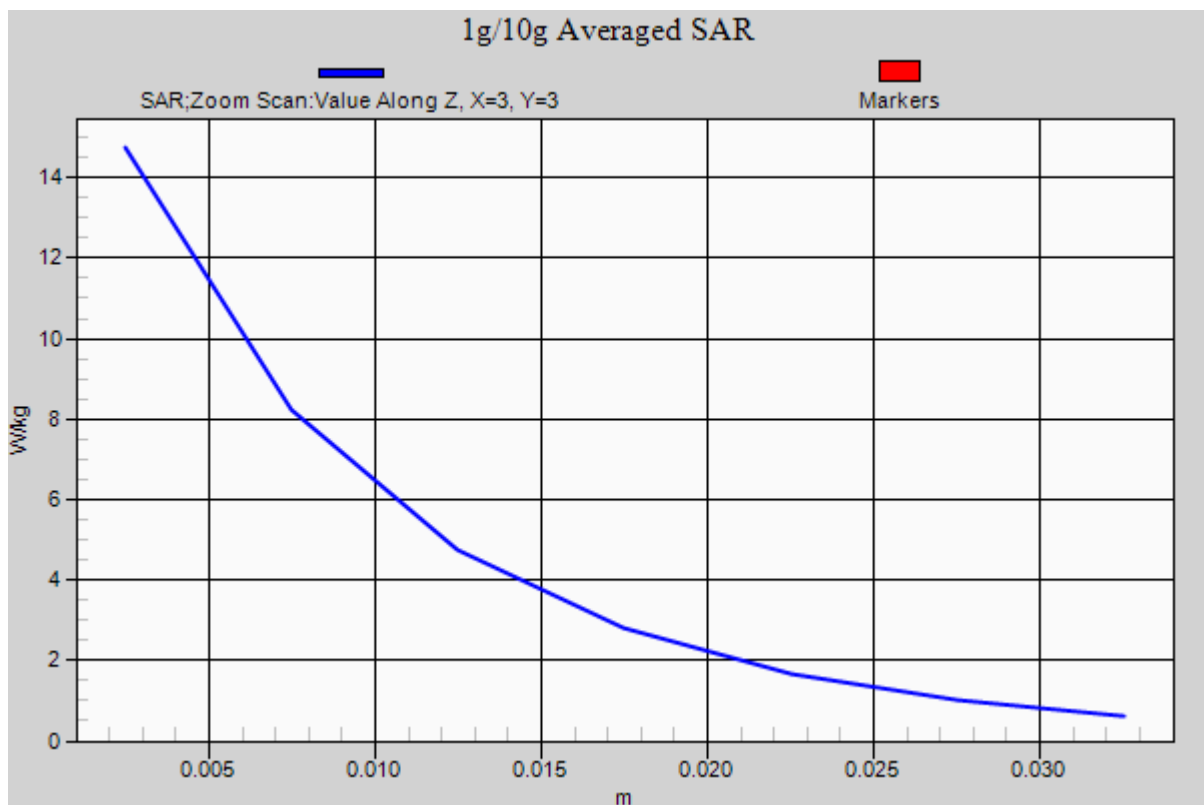
Area Scan (61x91x1): Interpolated grid: dx=15mm, dy=15mm

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

Power Drift = 0.04 dB

Peak SAR (extrapolated) = 20.0 W/kg

SAR(1 g) = 10.8 W/kg; SAR(10 g) = 5.6 W/kg



DIGITAL EMC CO., LTD

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:920

Communication System: CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.768$ S/m; $\epsilon_r = 38.355$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3933; ConvF(7.44, 7.44, 7.44); Calibrated: 9/24/2013; ; Electronics: DAE4 Sn1396

Phantom: SAM with CRP_2013_10_08_middle; Type: QD000P40CD; Serial: TP:1786

Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Test Date: 2014-01-27; Ambient Temp: 21.1; Tissue Temp: 21.7

2450 MHz System Verification

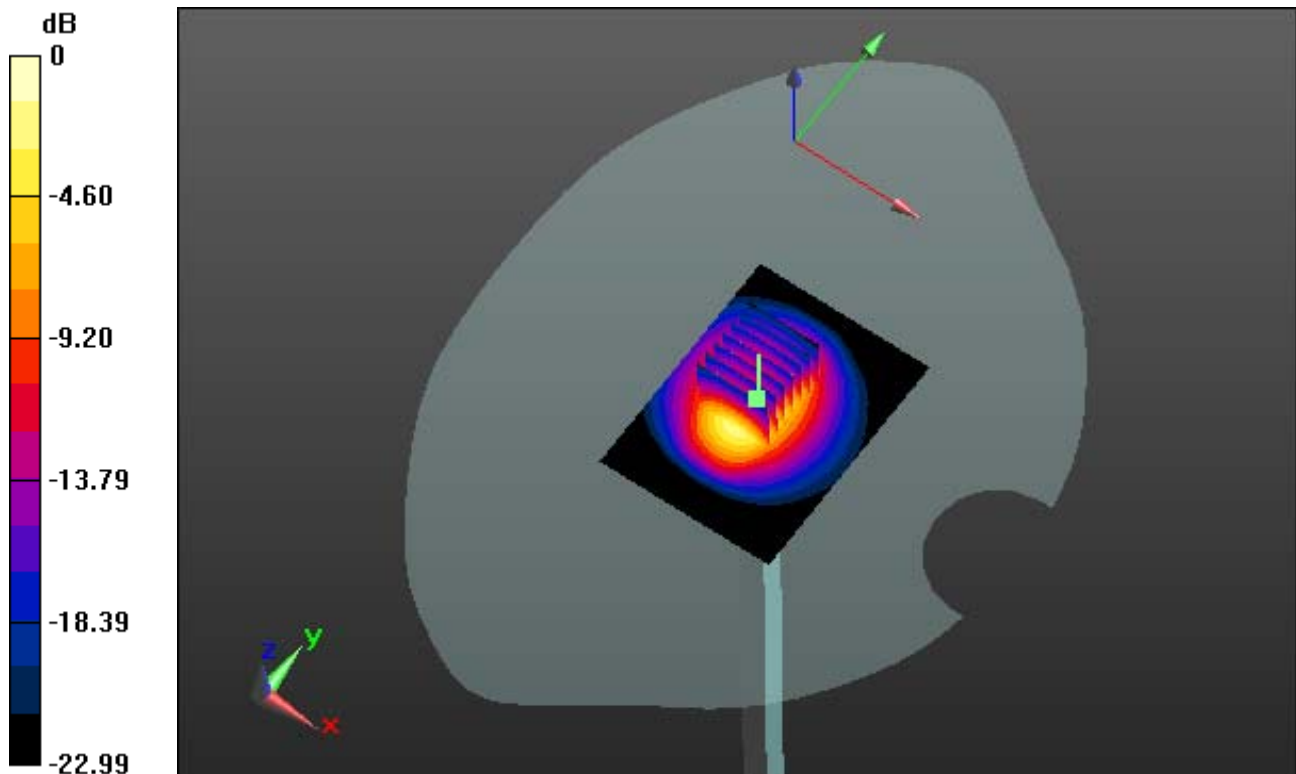
Area Scan (61x81x1): Interpolated grid: dx=12mm, dy=12mm

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

Power Drift = 0.11 dB

Peak SAR (extrapolated) = 27.9 W/kg

SAR(1 g) = 13.3 W/kg; SAR(10 g) = 6.16 W/kg



0 dB = 20.3 W/kg

DIGITAL EMC CO., LTD

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:920

Communication System: CW; Frequency: 2450 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 2450$ MHz; $\sigma = 1.768$ S/m; $\epsilon_r = 38.355$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3933; ConvF(7.44, 7.44, 7.44); Calibrated: 9/24/2013; ; Electronics: DAE4 Sn1396
Phantom: SAM with CRP_2013_10_08_middle; Type: QD000P40CD; Serial: TP:1786
Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Test Date: 2014-01-27; Ambient Temp: 21.1; Tissue Temp: 21.7

2450 MHz System Verification

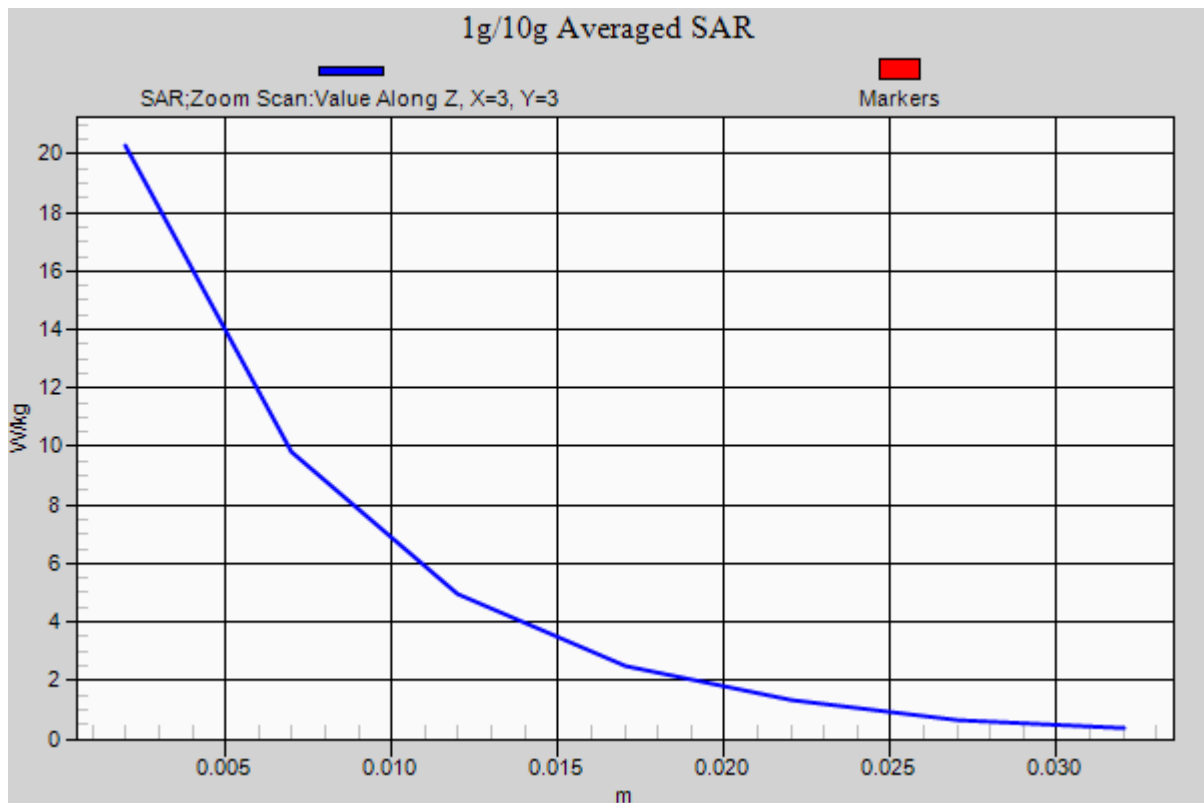
Area Scan (61x81x1): Interpolated grid: dx=12mm, dy=12mm

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

Power Drift = 0.11 dB

Peak SAR (extrapolated) = 27.9 W/kg

SAR(1 g) = 13.3 W/kg; SAR(10 g) = 6.16 W/kg



DIGITAL EMC CO., LTD

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:920

Communication System: CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2450$ MHz; $\sigma = 2.006$ S/m; $\epsilon_r = 53.256$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3933; ConvF(7.36, 7.36, 7.36); Calibrated: 9/24/2013; ; Electronics: DAE4 Sn1396

Phantom: SAM with CRP_2013_10_08_middle; Type: QD000P40CD; Serial: TP:1786

Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Test Date: 2014-01-27; Ambient Temp: 21.1; Tissue Temp: 21.7

2450 MHz System Verification

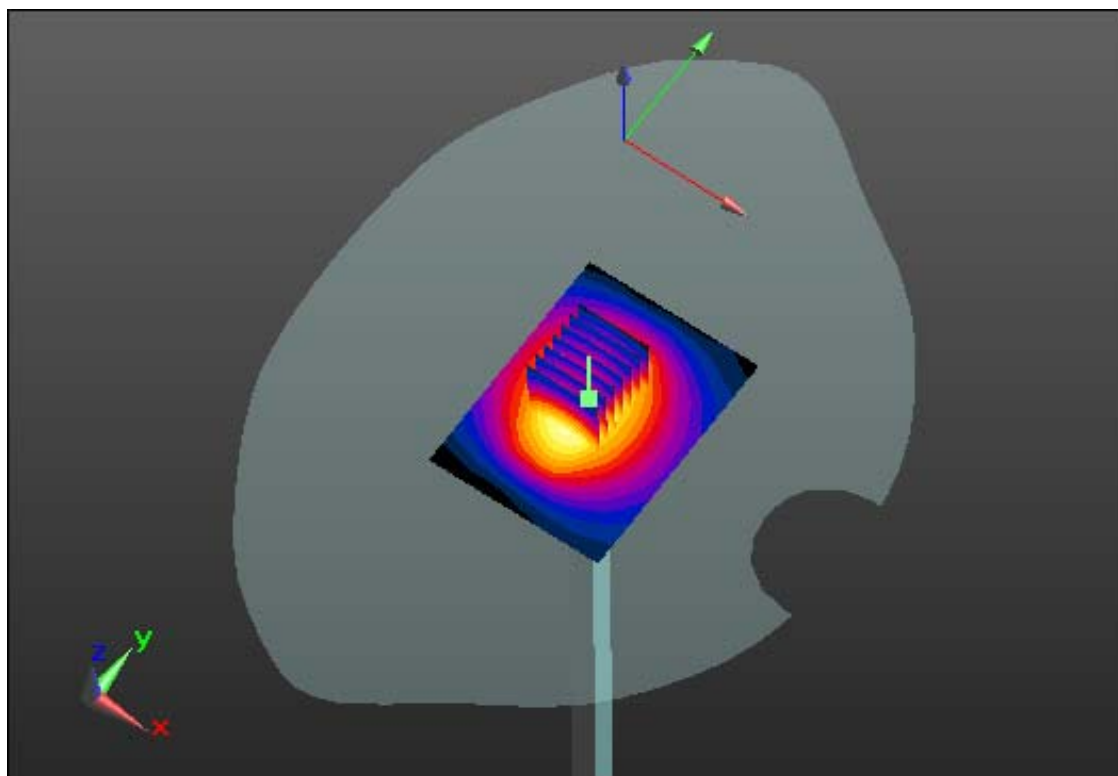
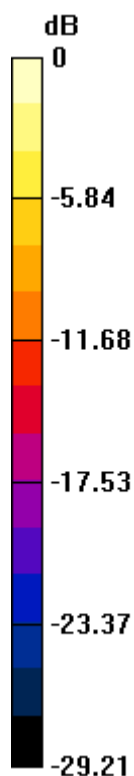
Area Scan (61x81x1): Interpolated grid: dx=12mm, dy=12mm

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

Power Drift = 0.00 dB

Peak SAR (extrapolated) = 32.1 W/kg

SAR(1 g) = 12.5 W/kg; SAR(10 g) = 5.17 W/kg



0 dB = 18.7 W/kg

DIGITAL EMC CO., LTD

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:920

Communication System: CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2450$ MHz; $\sigma = 2.006$ S/m; $\epsilon_r = 53.256$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3933; ConvF(7.36, 7.36, 7.36); Calibrated: 9/24/2013; ; Electronics: DAE4 Sn1396

Phantom: SAM with CRP_2013_10_08_middle; Type: QD000P40CD; Serial: TP:1786

Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Test Date: 2014-01-27; Ambient Temp: 21.1; Tissue Temp: 21.7

2450 MHz System Verification

Area Scan (61x81x1): Interpolated grid: dx=12mm, dy=12mm

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

Power Drift = 0.00 dB

Peak SAR (extrapolated) = 32.1 W/kg

SAR(1 g) = 12.5 W/kg; SAR(10 g) = 5.17 W/kg

