

Appendix 1

SAR distribution comparisons for System Accuracy Verifications

System Accuracy Verification Measurements for Head SAR Measurements

Date/Time: 7/12/2012 3:42:49 PM

Test Laboratory: Motorola Mobility - Jul-12-2012 750 MHz Head**DUT: Dipole 750 MHz; Type: D750V3; Serial: D750V3 - SN: 1040; FCC ID: IHDT56NG9**

Procedure Notes: 750 MHz System Performance Check; Dipole Sn# 1040; Input Power = 200 mW

Sim.Temp@meas = 19.7°C; Sim.Temp@SPC = 19.6°C; Room Temp @ SPC = 20.8°C

Communication System: _CW - Dipole; Frequency: 750 MHz; Duty Cycle: 1:1

Medium: Validation *HEAD Tissue*

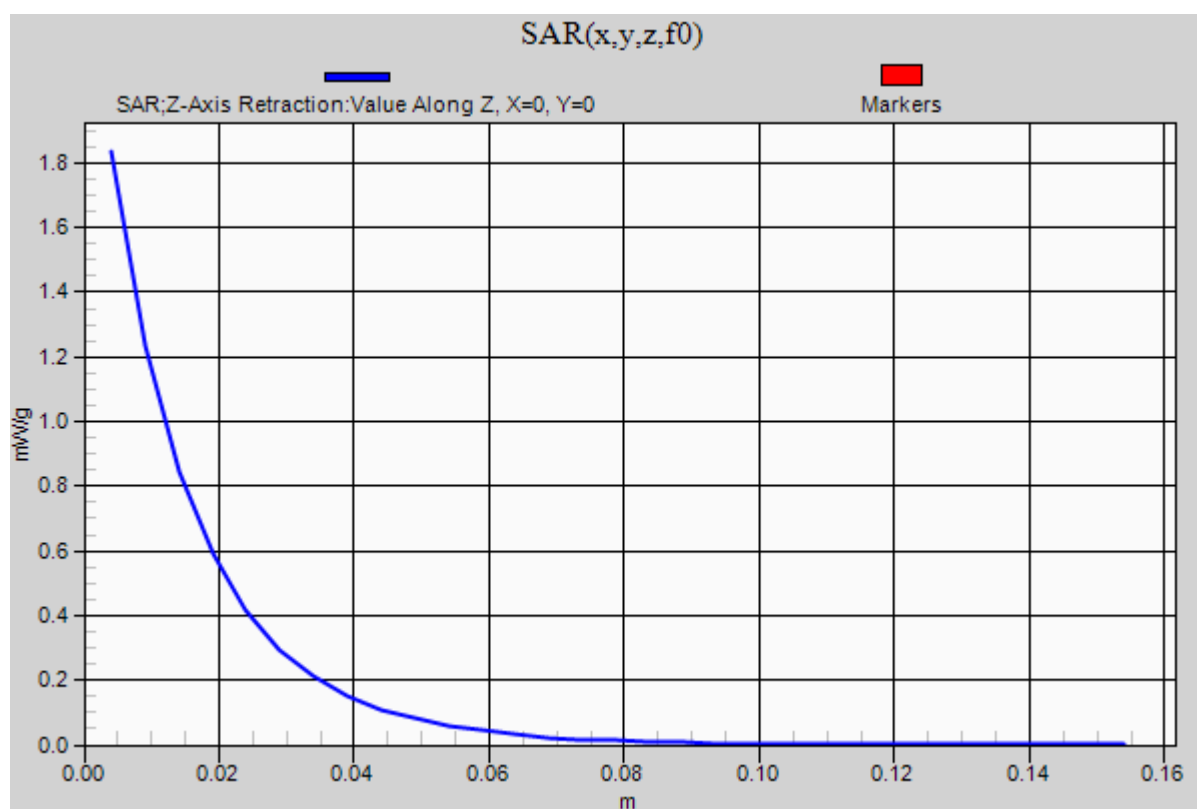
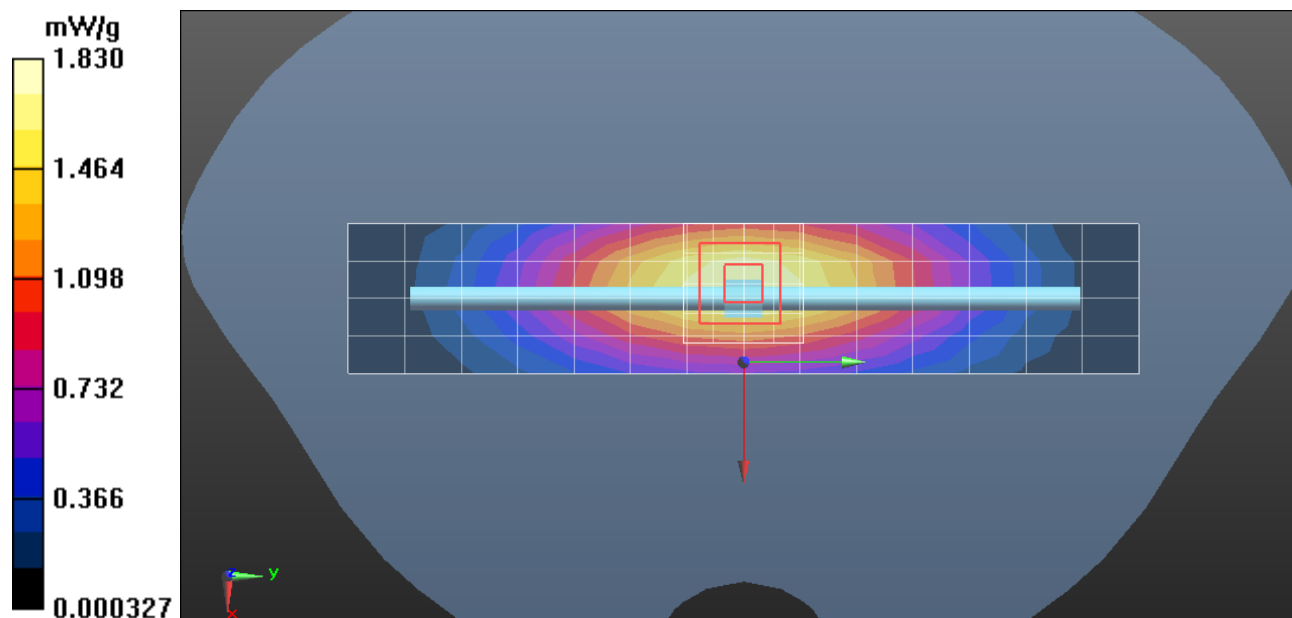
Medium parameters used: $f = 750 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 40.3$; $\rho = 1000 \text{ kg/m}^3$ **DASY4 Configuration:**

- Probe: ES3DV3 - SN3115; ConvF(6.05, 6.05, 6.05); Calibrated: 1/11/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn699; Calibrated: 9/22/2011
- Phantom: R#2 Glycol SAM (extended range), Rev.2 (24-Feb-12); Type: SAM v4.0; Serial: TP-1136; Phantom section: Flat Section
- SEMCAD X Version 14.6.5 (6469)

DASY5, SAM - System Performance Check Template, Dipole Area Scan (5x15x1):Measurement grid: $dx=10\text{mm}$, $dy=15\text{mm}$; Maximum value of SAR (measured) = 1.75 mW/g**DASY5, SAM - System Performance Check Template, 0-Degree, 5x5x7 Cube (5x5x7)/Cube 0:**Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 44.935 V/m; Power Drift = 0.04 dB; Peak SAR (extrapolated) = 2.480 mW/g

SAR(1 g) = 1.69 mW/g; SAR(10 g) = 1.11 mW/g; Maximum value of SAR (measured) = 1.83 mW/g**DASY5, SAM - System Performance Check Template, Z-Axis Retraction (1x1x31):**Measurement grid: $dx=20\text{mm}$, $dy=20\text{mm}$, $dz=5\text{mm}$



Date/Time: 7/16/2012 8:34:02 AM

Test Laboratory: Motorola Mobility - Jul-16-2012 750 MHz Head**DUT: Dipole 750 MHz; Type: D750V3; Serial: D750V3 - SN: 1040; FCC ID: IHDT56NG9**

Procedure Notes: 750 MHz System Performance Check; Dipole Sn# 1040; Input Power = 200 mW

Sim.Temp@meas = 20.1°C; Sim.Temp@SPC = 20.1°C; Room Temp @ SPC = 21.1°C

Communication System: _CW - Dipole; Frequency: 750 MHz; Duty Cycle: 1:1

Medium: Validation *HEAD Tissue*

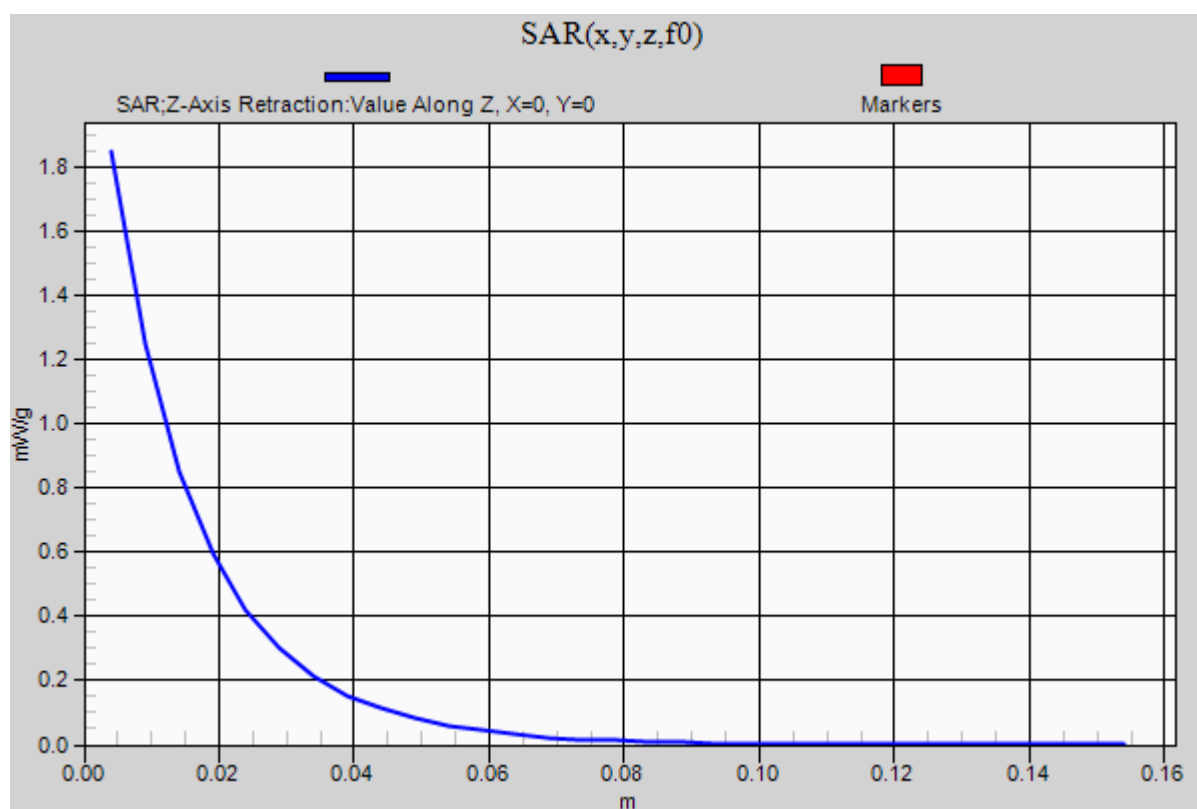
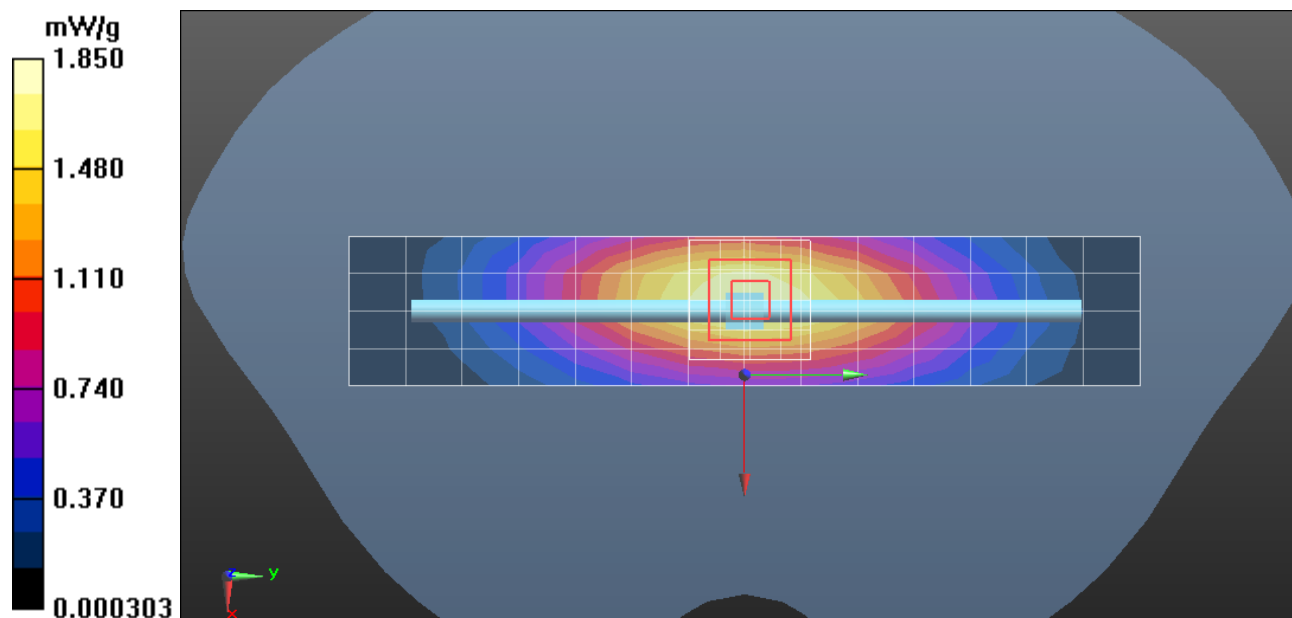
Medium parameters used: $f = 750 \text{ MHz}$; $\sigma = 0.91 \text{ mho/m}$; $\epsilon_r = 41.5$; $\rho = 1000 \text{ kg/m}^3$ **DASY4 Configuration:**

- Probe: ES3DV3 - SN3115; ConvF(6.05, 6.05, 6.05); Calibrated: 1/11/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn699; Calibrated: 9/22/2011
- Phantom: R#2 Glycol SAM (extended range), Rev.2 (24-Feb-12); Type: SAM v4.0; Serial: TP-1136; Phantom section: Flat Section
- SEMCAD X Version 14.6.5 (6469)

DASY5, SAM - System Performance Check Template, Dipole Area Scan (5x15x1):Measurement grid: $dx=10\text{mm}$, $dy=15\text{mm}$; Maximum value of SAR (measured) = 1.79 mW/g**DASY5, SAM - System Performance Check Template, 0-Degree, 5x5x7 Cube (5x5x7)/Cube 0:**Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 45.164 V/m; Power Drift = -0.01 dB; Peak SAR (extrapolated) = 2.500 mW/g

SAR(1 g) = 1.7 mW/g; SAR(10 g) = 1.12 mW/g; Maximum value of SAR (measured) = 1.85 mW/g**DASY5, SAM - System Performance Check Template, Z-Axis Retraction (1x1x31):**Measurement grid: $dx=20\text{mm}$, $dy=20\text{mm}$, $dz=5\text{mm}$



Date/Time: 4/18/2012 9:37:44 AM

Test Laboratory: Motorola Mobility - Apr-18-2012 835 MHz Head**DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN: 4D128; FCC ID: IHDT56NG9**

Procedure Notes: 835 MHz System Performance Check; Dipole Sn# 4D128; Input Power = 200 mW

Sim.Temp@meas = 18.6°C; Sim.Temp@SPC = 18.6°C; Room Temp @ SPC = 20.9°C

Communication System: _CW - Dipole; Frequency: 835 MHz; Duty Cycle: 1:1

Medium: Validation *HEAD Tissue*

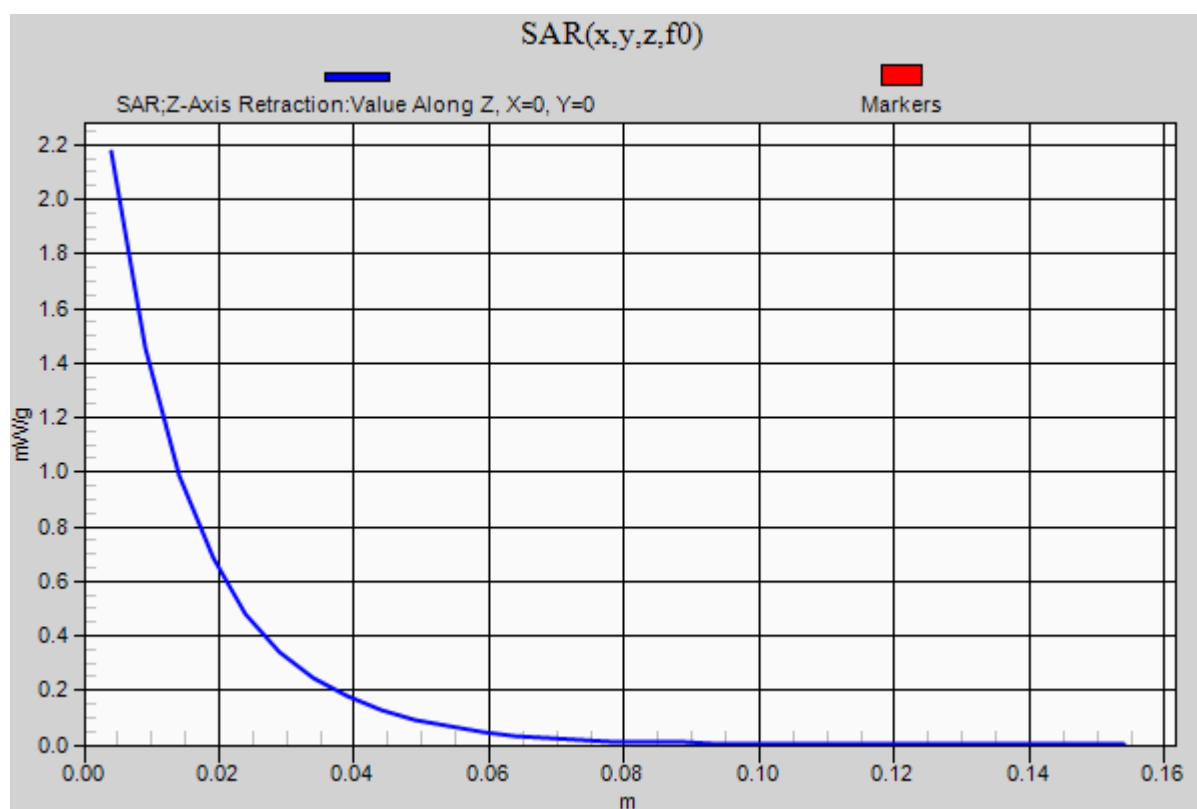
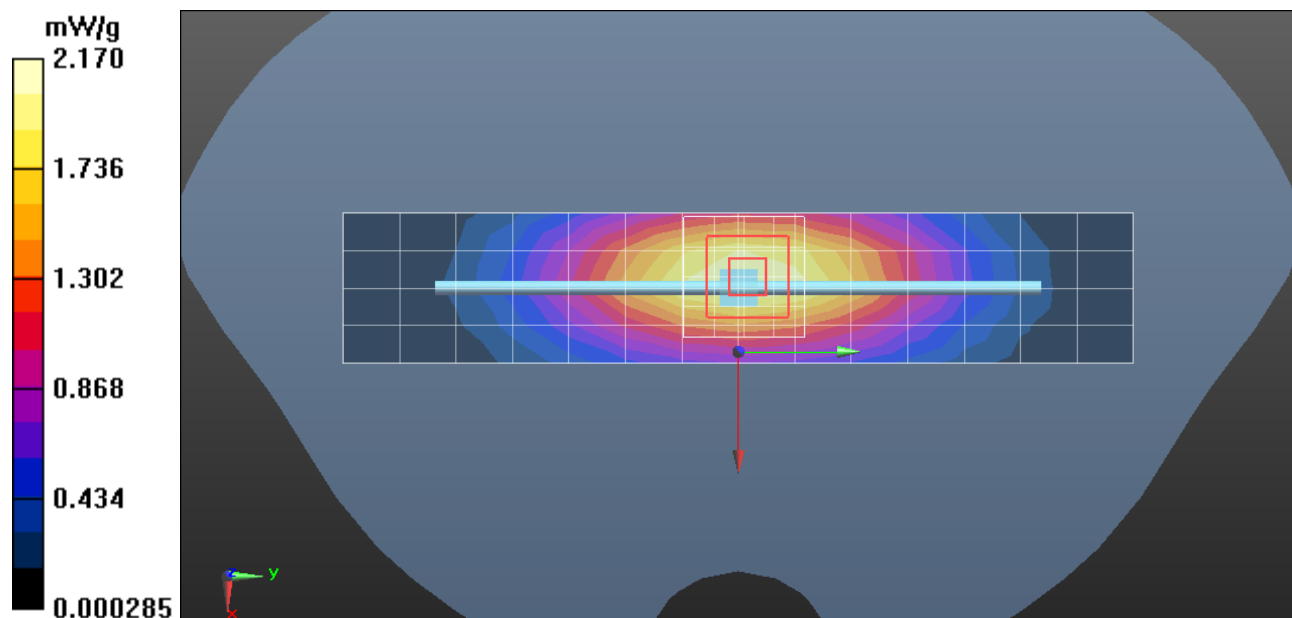
Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.93 \text{ mho/m}$; $\epsilon_r = 41.1$; $\rho = 1000 \text{ kg/m}^3$ **DASY4 Configuration:**

- Probe: ES3DV3 - SN3124; ConvF(6.08, 6.08, 6.08); Calibrated: 8/23/2011;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn376; Calibrated: 8/31/2011
- Phantom: R#1 - Sugar SAM (extended range), Rev.2 (24-Feb-12); Type: SAM v4.0;
Serial: TP-1156; Phantom section: Flat Section
- SEMCAD X Version 14.6.5 (6469)

DASY5, SAM - System Performance Check Template, Dipole Area Scan (5x15x1):Measurement grid: $dx=10\text{mm}$, $dy=15\text{mm}$; Maximum value of SAR (measured) = 2.10 mW/g**DASY5, SAM - System Performance Check Template, 0-Degree, 5x5x7 Cube (5x5x7)/Cube 0:**Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 48.212 V/m; Power Drift = -0.06 dB; Peak SAR (extrapolated) = 2.961 mW/g

SAR(1 g) = 1.99 mW/g; SAR(10 g) = 1.3 mW/g; Maximum value of SAR (measured) = 2.16 mW/g**DASY5, SAM - System Performance Check Template, Z-Axis Retraction (1x1x31):**Measurement grid: $dx=20\text{mm}$, $dy=20\text{mm}$, $dz=5\text{mm}$; Maximum value of SAR (measured) = 2.17 mW/g



Date/Time: 4/20/2012 8:38:57 AM

Test Laboratory: Motorola Mobility - Apr-20-2012 835 MHz Head**DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN: 4D128; FCC ID: IHDT56NG9**

Procedure Notes: 835 MHz System Performance Check; Dipole Sn# 4D128; Input Power = 200 mW

Sim.Temp@meas = 19.3°C; Sim.Temp@SPC = 19.3°C; Room Temp @ SPC = 20.1°C

Communication System: _CW - Dipole; Frequency: 835 MHz; Duty Cycle: 1:1

Medium: Validation *HEAD Tissue*

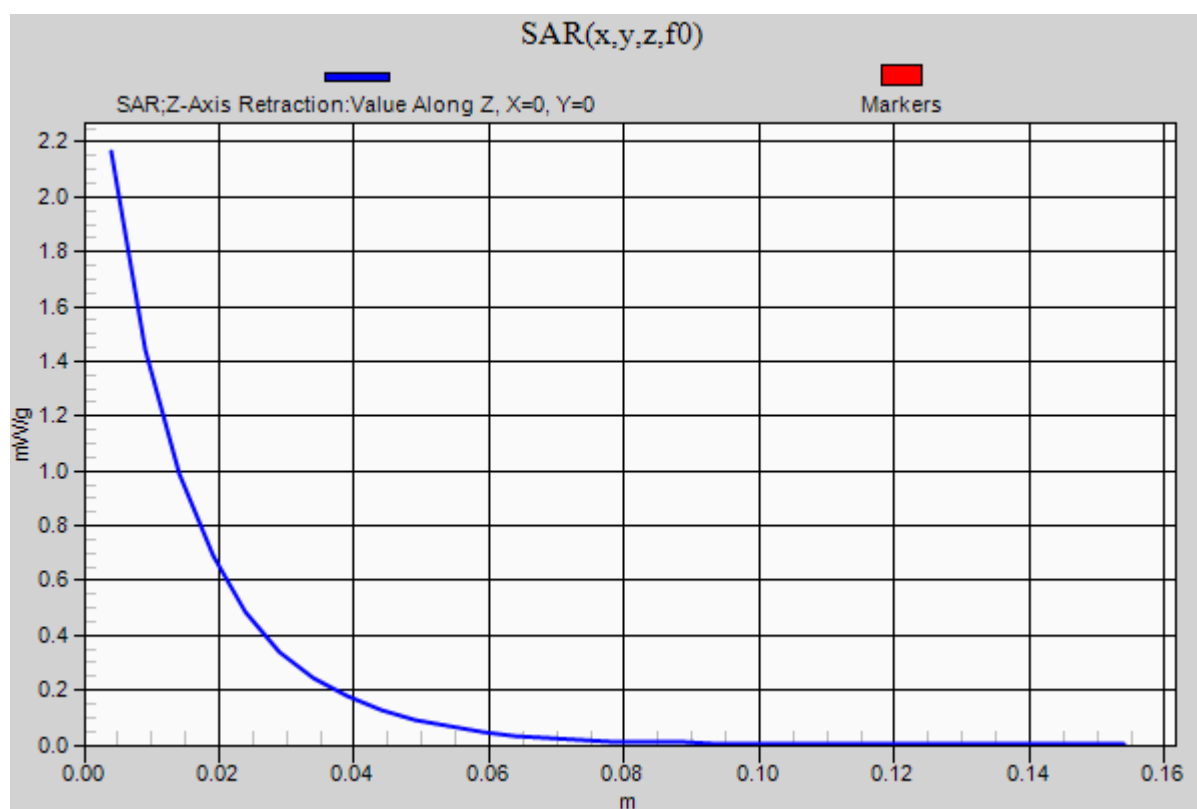
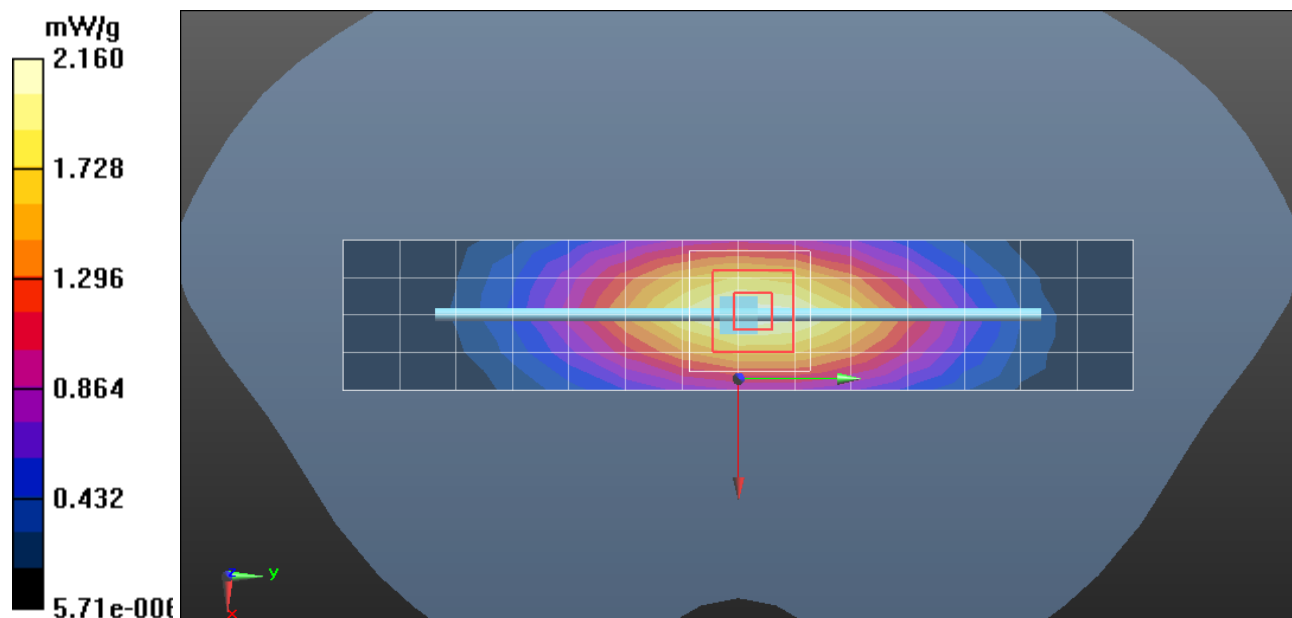
Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.93 \text{ mho/m}$; $\epsilon_r = 41.7$; $\rho = 1000 \text{ kg/m}^3$ **DASY4 Configuration:**

- Probe: ES3DV3 - SN3124; ConvF(6.08, 6.08, 6.08); Calibrated: 8/23/2011;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn376; Calibrated: 8/31/2011
- Phantom: R#1 - Sugar SAM (extended range), Rev.2 (24-Feb-12); Type: SAM v4.0;
Serial: TP-1156; Phantom section: Flat Section
- SEMCAD X Version 14.6.5 (6469)

DASY5, SAM - System Performance Check Template, Dipole Area Scan (5x15x1):Measurement grid: $dx=10\text{mm}$, $dy=15\text{mm}$; Maximum value of SAR (measured) = 2.17 mW/g**DASY5, SAM - System Performance Check Template, 0-Degree, 5x5x7 Cube (5x5x7)/Cube 0:**Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 48.636 V/m; Power Drift = -0.03 dB; Peak SAR (extrapolated) = 3.006 mW/g

SAR(1 g) = 2 mW/g; SAR(10 g) = 1.3 mW/g; Maximum value of SAR (measured) = 2.16 mW/g**DASY5, SAM - System Performance Check Template, Z-Axis Retraction (1x1x31):**Measurement grid: $dx=20\text{mm}$, $dy=20\text{mm}$, $dz=5\text{mm}$



Date/Time: 4/17/2012 7:19:08 AM

Test Laboratory: Motorola Mobility - Apr-17-2012 1800 MHz Head**DUT: Dipole 1800 MHz; Type: D1800V2; Serial: D1800V2 - SN:259TR; FCC ID: IHDT56NG9**

Procedure Notes: 1800 MHz System Performance Check; Dipole Sn# 259TR; Input Power = 200 mW

Sim.Temp@meas = 18.8°C; Sim.Temp@SPC = 18.9°C; Room Temp @ SPC = 21.0°C

Communication System: CW; Frequency: 1800 MHz; Duty Cycle: 1:1

Medium: Validation *HEAD Tissue*

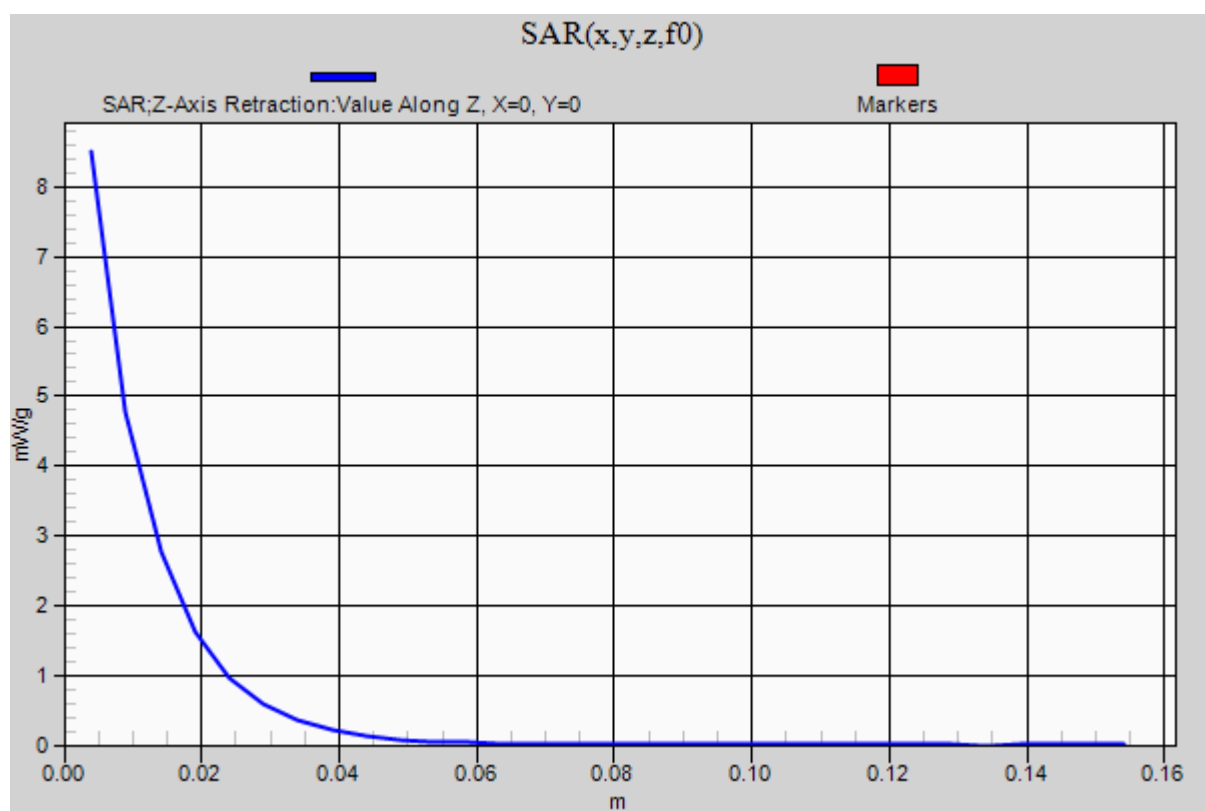
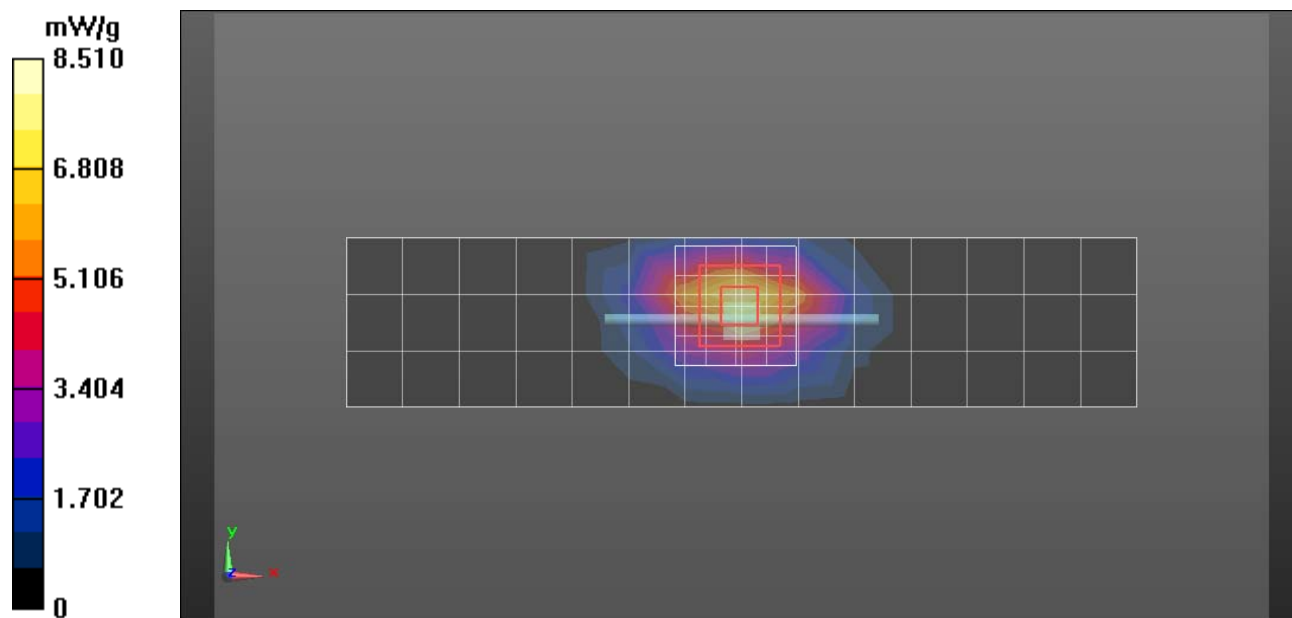
Medium parameters used: $f = 1800 \text{ MHz}$; $\sigma = 1.39 \text{ mho/m}$; $\epsilon_r = 38.6$; $\rho = 1000 \text{ kg/m}^3$ **DASY4 Configuration:**

- Probe: ES3DV3 - SN3124; ConvF(5.03, 5.03, 5.03); Calibrated: 8/23/2011;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn376; Calibrated: 8/31/2011
- Phantom: R#-1, Triple Flat Phantom 5.1C (Rev.4); Type: QD 000 P51 CA;
Serial: n/a; Phantom section: Left Section
- SEMCAD X Version 14.6.5 (6469)

DASY5, Triple Flat System Performance Check Template - Dipole Area Scan (4x15x1):Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$; Maximum value of SAR (measured) = 8.05 mW/g**DASY5, Triple Flat System Performance Check Template - 0-Degree 5x5x7 Cube****(5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 75.737 V/m; Power Drift = -0.00 dB; Peak SAR (extrapolated) = 13.792 mW/g

SAR(1 g) = 7.59 mW/g; SAR(10 g) = 4.01 mW/g; Maximum value of SAR (measured) = 8.53 mW/g**DASY5, Triple Flat System Performance Check Template - Z-Axis Retraction (1x1x31):**Measurement grid: $dx=20\text{mm}$, $dy=20\text{mm}$, $dz=5\text{mm}$; Maximum value of SAR (measured) = 8.51 mW/g



Date/Time: 4/20/2012 8:04:26 AM

Test Laboratory: Motorola Mobility - Apr-20-2011 1800 MHz Head**DUT: Dipole 1800 MHz; Type: D1800V2; Serial: D1800V2 - SN: 259TR; FCC ID: IHDT56NG9**

Procedure Notes: 1800 MHz System Performance Check; Dipole Sn# 259TR; Input Power = 200 mW

Sim.Temp@meas = 18.8°C; Sim.Temp@SPC = 18.8°C; Room Temp @ SPC = 20.1°C

Communication System: _CW - Dipole; Frequency: 1800 MHz; Duty Cycle: 1:1

Medium: Validation *HEAD Tissue*

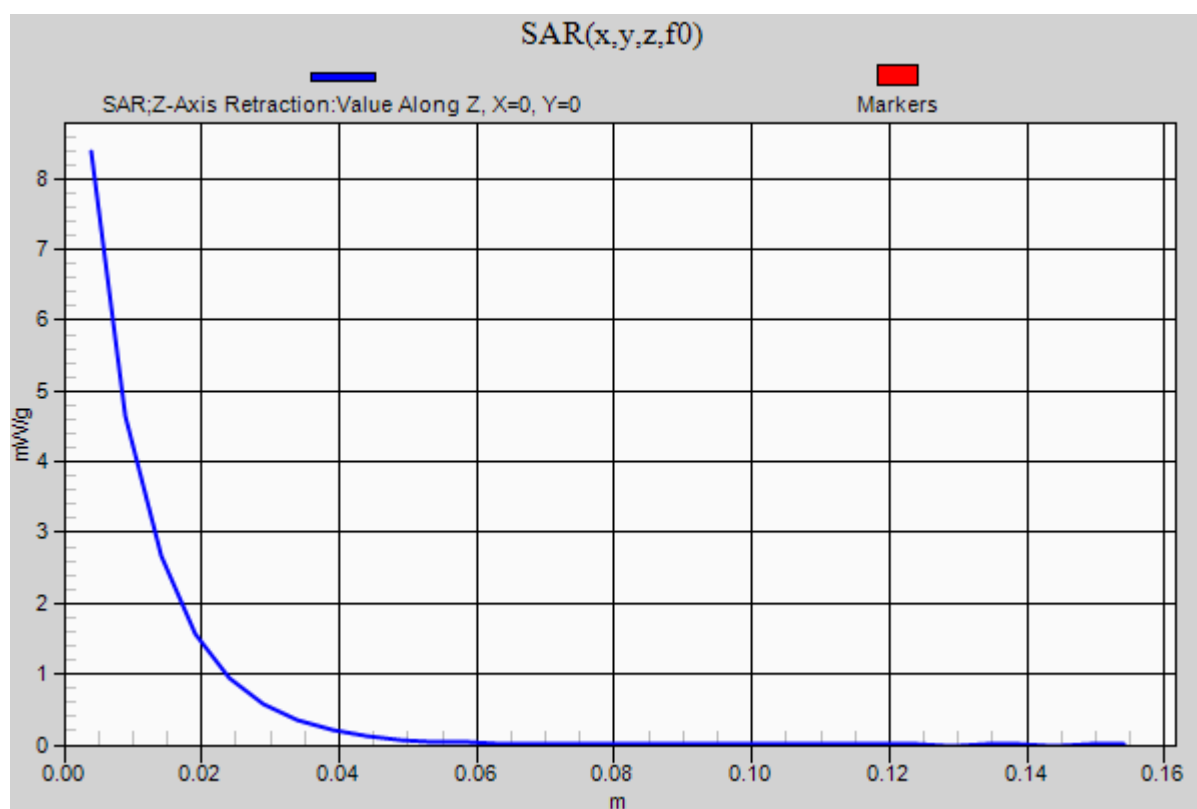
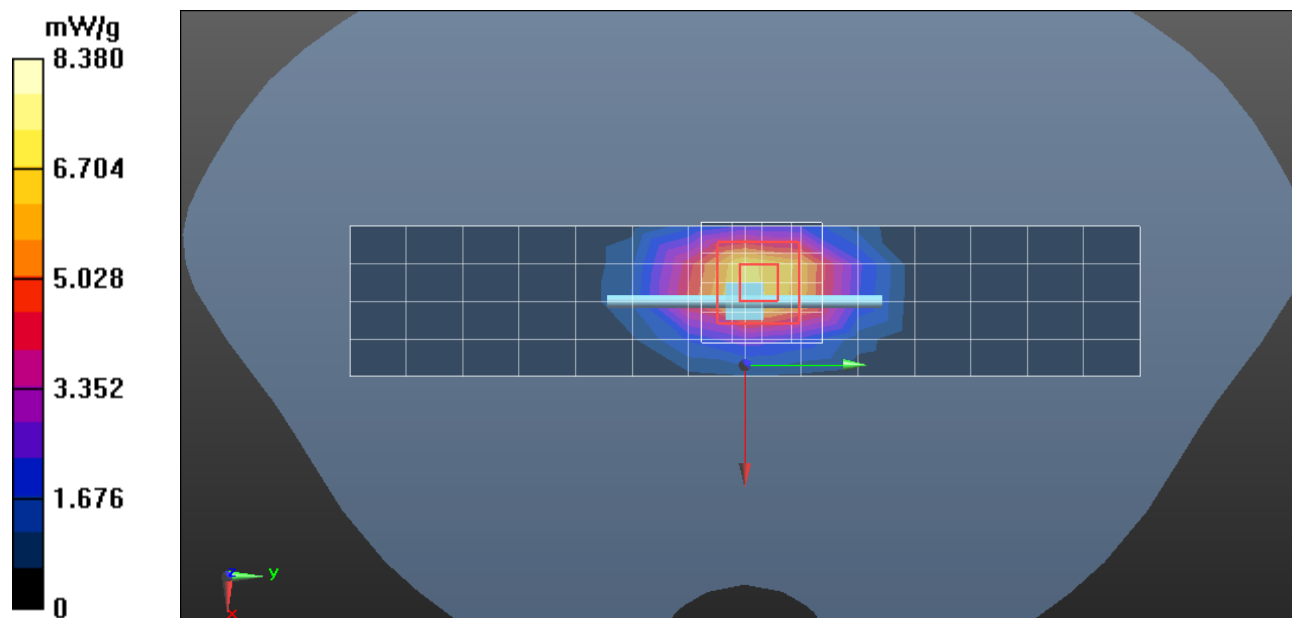
Medium parameters used: $f = 1800 \text{ MHz}$; $\sigma = 1.36 \text{ mho/m}$; $\epsilon_r = 38.9$; $\rho = 1000 \text{ kg/m}^3$ **DASY4 Configuration:**

- Probe: ES3DV3 - SN3124; ConvF(5.03, 5.03, 5.03); Calibrated: 8/23/2011;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn376; Calibrated: 8/31/2011
- Phantom: R#1 - Glycol SAM (extended range), Rev.2 (24-Feb-12); Type: SAM v4.0;
Serial: TP-1319; Phantom section: Flat Section
- SEMCAD X Version 14.6.5 (6469)

DASY5, SAM - System Performance Check Template, Dipole Area Scan (5x15x1):Measurement grid: $dx=10\text{mm}$, $dy=15\text{mm}$; Maximum value of SAR (measured) = 7.21 mW/g**DASY5, SAM - System Performance Check Template, 0-Degree, 5x5x7 Cube (5x5x7)/Cube 0:**Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 74.037 V/m; Power Drift = 0.01 dB; Peak SAR (extrapolated) = 13.685 mW/g

SAR(1 g) = 7.47 mW/g; SAR(10 g) = 3.93 mW/g; Maximum value of SAR (measured) = 8.38 mW/g**DASY5, SAM - System Performance Check Template, Z-Axis Retraction (1x1x31):**Measurement grid: $dx=20\text{mm}$, $dy=20\text{mm}$, $dz=5\text{mm}$



Date/Time: 7/17/2012 5:20:14 PM

Test Laboratory: Motorola Mobility - Jul-17-2012 1800 MHz Head**DUT: Dipole 1800 MHz; Type: D1800V2; Serial: D1800V2 - SN: 2D190; FCC ID: IHDT56NG9**

Procedure Notes: 1800 MHz System Performance Check; Dipole Sn# 2D190; Input Power = 200 mW

Sim.Temp@meas = 19.4°C; Sim.Temp@SPC = 19.7°C; Room Temp @ SPC = 21.1°C

Communication System: _CW - Dipole; Frequency: 1800 MHz; Duty Cycle: 1:1

Medium: Validation *HEAD Tissue*

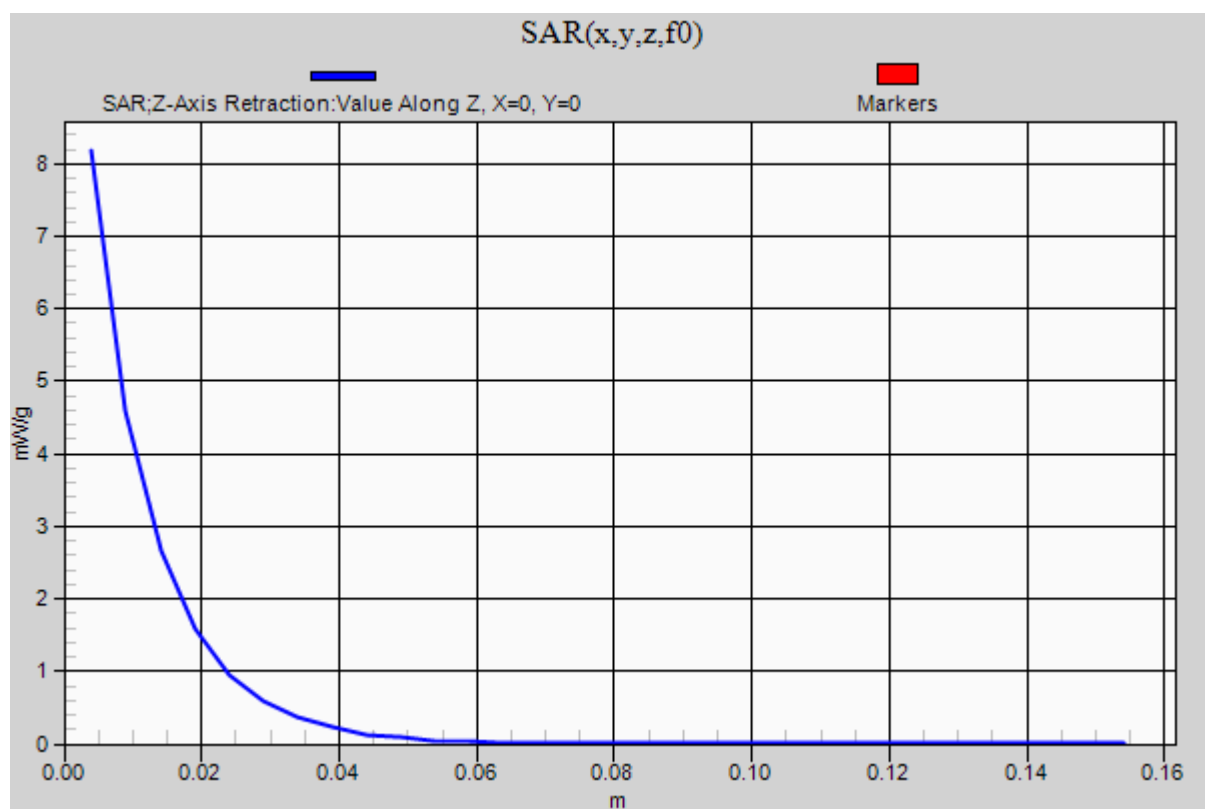
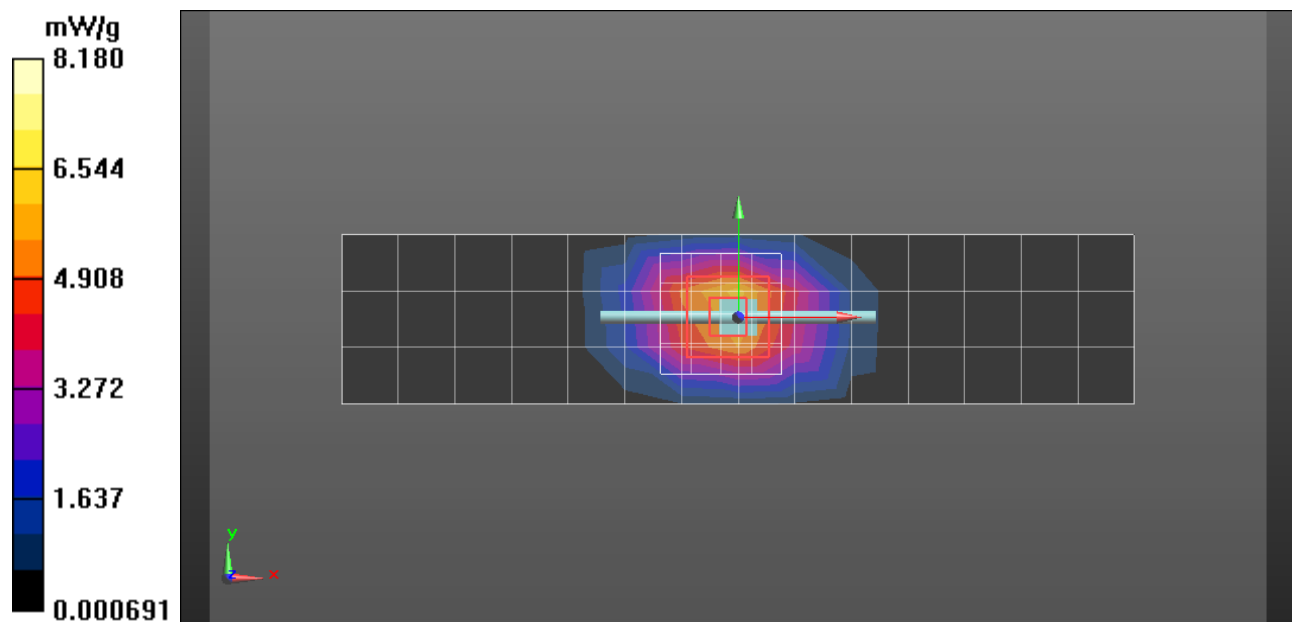
Medium parameters used: $f = 1800 \text{ MHz}$; $\sigma = 1.39 \text{ mho/m}$; $\epsilon_r = 39.3$; $\rho = 1000 \text{ kg/m}^3$ **DASY4 Configuration:**

- Probe: ES3DV3 - SN3115; ConvF(5.17, 5.17, 5.17); Calibrated: 1/11/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn699; Calibrated: 9/22/2011
- Phantom: R#2 Triple Flat Phantom 5.1C (Rev.4); Type: QD 000 P51 CA;
Serial: n/a; Phantom section: Center Section
- SEMCAD X Version 14.6.5 (6469)

DASY5, Triple Flat System Performance Check Template - Dipole Area Scan (4x15x1):Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$; Maximum value of SAR (measured) = 6.25 mW/g**DASY5, Triple Flat System Performance Check Template - 0-Degree 5x5x7 Cube****(5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 77.443 V/m; Power Drift = 0.02 dB; Peak SAR (extrapolated) = 13.288 mW/g

SAR(1 g) = 7.32 mW/g; SAR(10 g) = 3.87 mW/g; Maximum value of SAR (measured) = 8.18 mW/g**DASY5, Triple Flat System Performance Check Template - Z-Axis Retraction (1x1x31):**Measurement grid: $dx=20\text{mm}$, $dy=20\text{mm}$, $dz=5\text{mm}$



Date/Time: 7/21/2012 6:23:22 AM

Test Laboratory: Motorola Mobility - Jul-21-2012 2450 MHz Head**DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN: 863; FCC ID: IHDT56NG9**

Procedure Notes: 2450 MHz System Performance Check; Dipole Sn# 863; Input Power = 200 mW

Sim.Temp@meas = 19.8°C; Sim.Temp@SPC = 19.6°C; Room Temp @ SPC = 21.4°C

Communication System: _CW - Dipole; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: Validation *HEAD Tissue*

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.86$ mho/m; $\epsilon_r = 38.4$; $\rho = 1000$ kg/m³**DASY4 Configuration:**

- Probe: EX3DV4 - SN3728; ConvF(6.86, 6.86, 6.86); Calibrated: 4/24/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn440; Calibrated: 5/23/2012
- Phantom: R#-3, Triple Flat Phantom 5.1C (Rev.4); Type: QD 000 P51 CA;
Serial: n/a; Phantom section: Left Section
- SEMCAD X Version 14.6.5 (6469)

DASY5, Triple Flat System Performance Check Template - Dipole Area Scan (4x15x1):

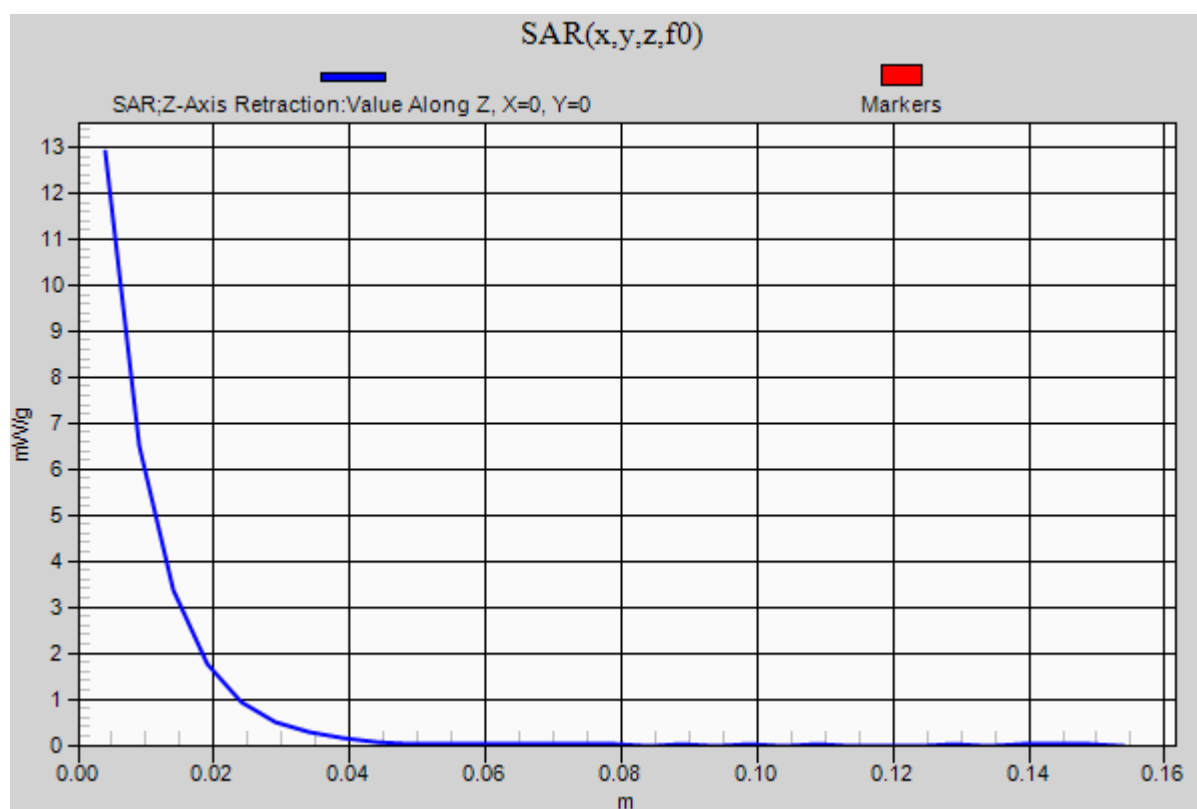
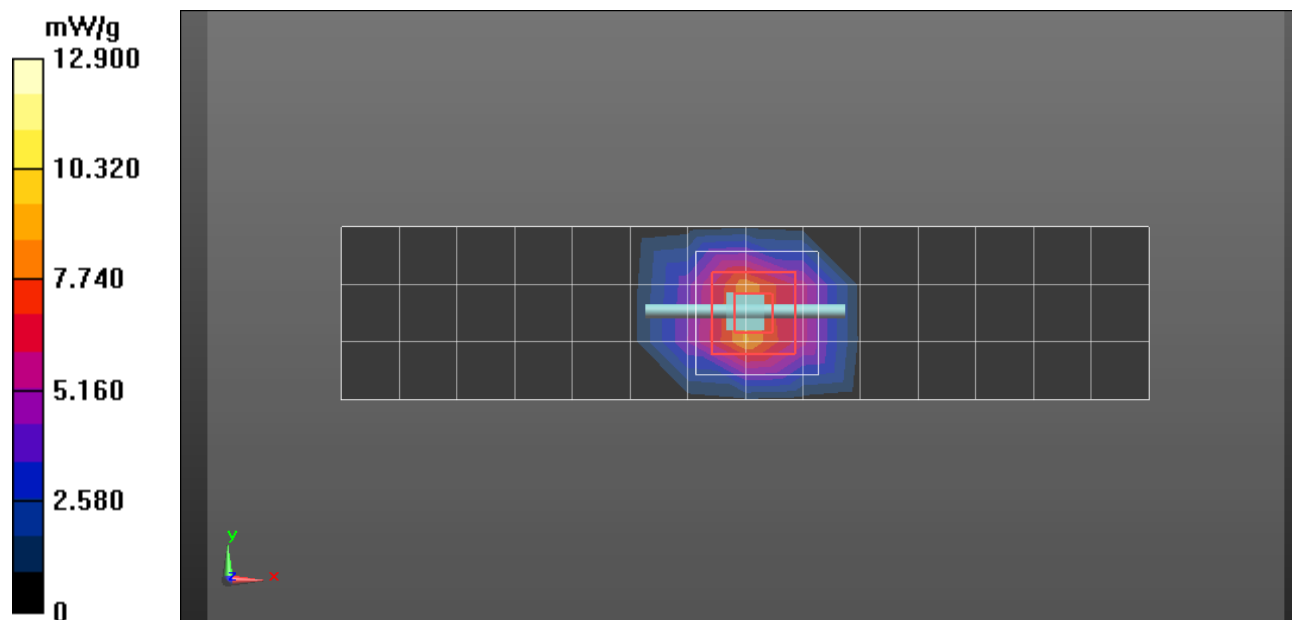
Measurement grid: dx=15mm, dy=15mm; Maximum value of SAR (measured) = 8.81 mW/g

DASY5, Triple Flat System Performance Check Template - 0-Degree 5x5x7 Cube**(5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 84.090 V/m; Power Drift = -0.07 dB; Peak SAR (extrapolated) = 23.788 mW/g

SAR(1 g) = 11.5 mW/g; SAR(10 g) = 5.37 mW/g; Maximum value of SAR (measured) = 13.1 mW/g**DASY5, Triple Flat System Performance Check Template - Z-Axis Retraction (1x1x31):**

Measurement grid: dx=20mm, dy=20mm, dz=5mm; Maximum value of SAR (measured) = 12.9 mW/g



Date/Time: 7/25/2012 3:29:13 PM

Test Laboratory: Motorola Mobility - Jul-25-2012 5200 MHz Head**DUT: Dipole 5-6GHz; Type: D5GHzV2; Serial: D5GHzV2 - SN: 1098; FCC ID: IHDT56NG9**

Procedure Notes: 5200 MHz System Performance Check; Dipole Sn# 1098; Input Power = 100 mW

Sim.Temp@meas = 19.7°C; Sim.Temp@SPC = 19.7°C; Room Temp @ SPC = 20.8°C

Communication System: _CW - Dipole; Frequency: 5200 MHz; Duty Cycle: 1:1

Medium: Validation *HEAD Tissue*

Medium parameters used: $f = 5200$ MHz; $\sigma = 4.61$ mho/m; $\epsilon_r = 35.8$; $\rho = 1000$ kg/m³**DASY4 Configuration:**

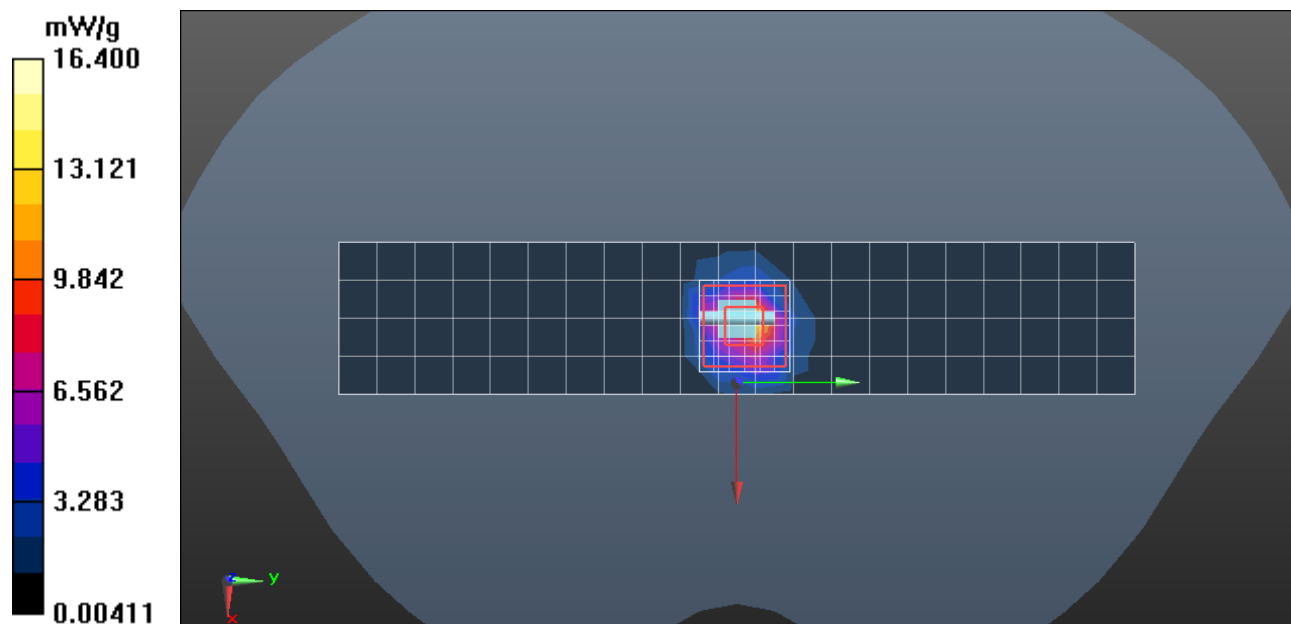
- Probe: EX3DV4 - SN3728; ConvF(4.74, 4.74, 4.74); Calibrated: 4/24/2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn440; Calibrated: 5/23/2012
- Phantom: R#3 5 GHz HEAD SAM (extended range), Rev.2 (24-Feb-12); Type: SAM v4.0; Serial: TP-1106; Phantom section: Flat Section
- SEMCAD X Version 14.6.5 (6469)

DASY5, SAM System Performance Check Template - Dipole Area Scan (5x22x1):

Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 13.8 mW/g

DASY5, SAM System Performance Check Template - 0-Degree, 7x7x12 Cube (7x7x6)/Cube**0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 60.304 V/m; Power Drift = -0.06 dB; Peak SAR (extrapolated) = 30.893 mW/g

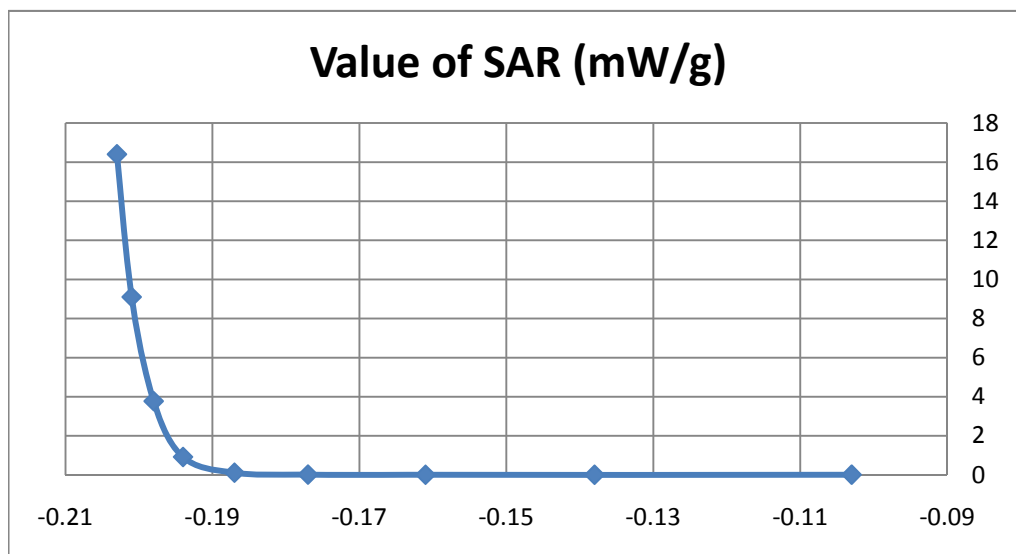
SAR(1 g) = 7.85 mW/g; SAR(10 g) = 2.25 mW/g; Maximum value of SAR (measured) = 16.4 mW/g

Jul-25-2012 5200 MHz Head - Z-axis Probe Retraction

SAR(x,y,z,f0) in mW/g

Grid: 1x1x9x1

Value of SAR mW/g	X m	Y m	Z m
16.4	-0.015	0.002	-0.203
9.1	-0.015	0.002	-0.201
3.77	-0.015	0.002	-0.198
0.916	-0.015	0.002	-0.194
0.111	-0.015	0.002	-0.187
0.012	-0.015	0.002	-0.177
0.00677	-0.015	0.002	-0.161
0.00409	-0.015	0.002	-0.138
0.00889	-0.015	0.002	-0.103



Date/Time: 7/26/2012 2:44:37 PM

Test Laboratory: Motorola Mobility - Jul-26-2012 5800 MHz Head**DUT: Dipole 5-6GHz; Type: D5GHzV2; Serial: D5GHzV2 - SN: 1098; FCC ID: IHDT56NG9**

Procedure Notes: 5800 MHz System Performance Check; Dipole Sn# 1098; Input Power = 100 mW

Sim.Temp@meas = 19.7°C; Sim.Temp@SPC = 19.9°C; Room Temp @ SPC = 20.9°C

Communication System: _CW - Dipole; Frequency: 5800 MHz; Duty Cycle: 1:1

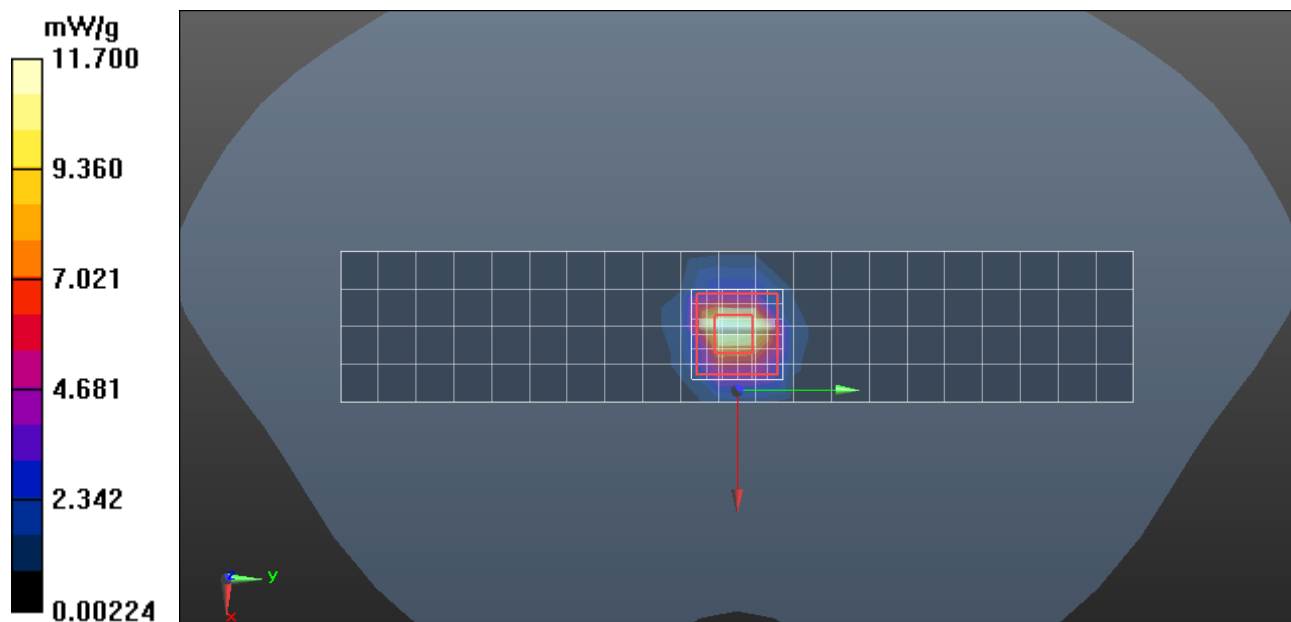
Medium: Validation *HEAD Tissue*

Medium parameters used: $f = 5800 \text{ MHz}$; $\sigma = 5.26 \text{ mho/m}$; $\epsilon_r = 34.5$; $\rho = 1000 \text{ kg/m}^3$ **DASY4 Configuration:**

- Probe: EX3DV4 - SN3728; ConvF(4.23, 4.23, 4.23); Calibrated: 4/24/2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn440; Calibrated: 5/23/2012
- Phantom: R#3 5 GHz HEAD SAM (extended range), Rev.2 (24-Feb-12);
Type: SAM v4.0; Serial: TP-1106; Phantom section: Flat Section
- SEMCAD X Version 14.6.5 (6469)

DASY5, SAM System Performance Check Template - Dipole Area Scan (5x22x1):Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$; Maximum value of SAR (measured) = 11.7 mW/g**DASY5, SAM System Performance Check Template-0-Degree, 7x7x12 Cube (7x7x6)/Cube 0:**Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 58.059 V/m; Power Drift = -0.18 dB; Peak SAR (extrapolated) = 31.772 mW/g

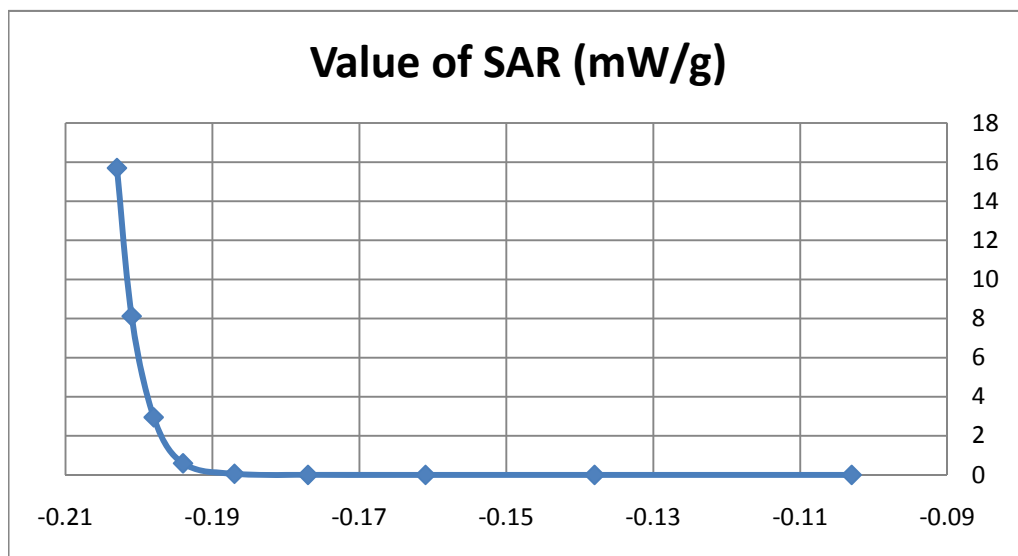
SAR(1 g) = 7.32 mW/g; SAR(10 g) = 2.07 mW/g; Maximum value of SAR (measured) = 15.6 mW/g

Jul-26-2012 5800 MHz Head - Z-axis Probe Retraction

SAR(x,y,z,f0) in mW/g

Grid: 1x1x9x1

Value of SAR	X	Y	Z
mW/g	m	m	m
15.7	-0.015	-0.0008	-0.203
8.12	-0.015	-0.0008	-0.201
2.95	-0.015	-0.0008	-0.198
0.597	-0.015	-0.0008	-0.194
0.0594	-0.015	-0.0008	-0.187
0.00537	-0.015	-0.0008	-0.177
0.00305	-0.015	-0.0008	-0.161
0.00398	-0.015	-0.0008	-0.138
0.00197	-0.015	-0.0008	-0.103



System Accuracy Verification Measurements for Body SAR Measurements

Date/Time: 7/11/2012 5:03:07 PM

Test Laboratory: Motorola Mobility - Jul-11-2012 750 MHz Body**DUT: Dipole 750 MHz; Type: D750V3; Serial: D750V3 - SN:1040; FCC ID: IHDT56NG9**

Procedure Notes: 750 MHz System Performance Check; Dipole Sn# 1040; Input Power = 200 mW

Sim.Temp@meas = 19.0°C; Sim.Temp@SPC = 19.1°C; Room Temp @ SPC = 21.2°C

Communication System: _CW - Dipole; Frequency: 750 MHz; Duty Cycle: 1:1

Medium: Validation *BODY Tissue*

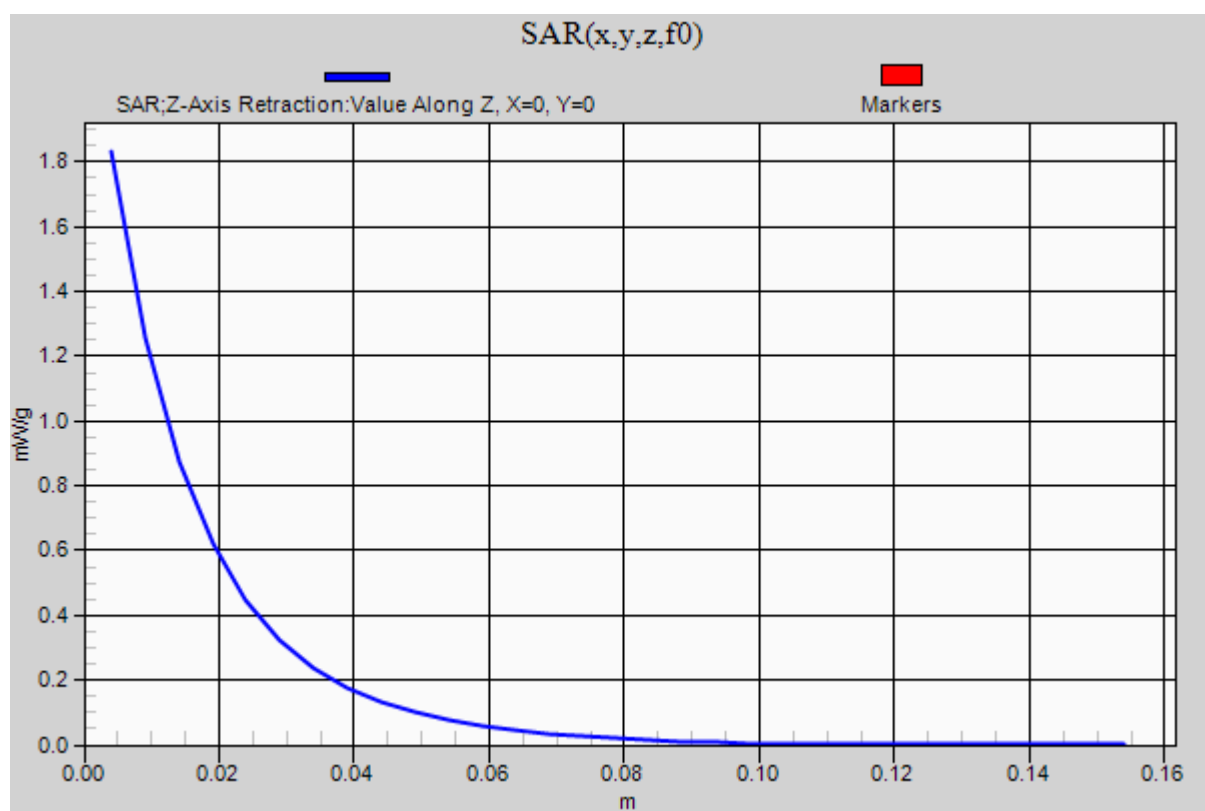
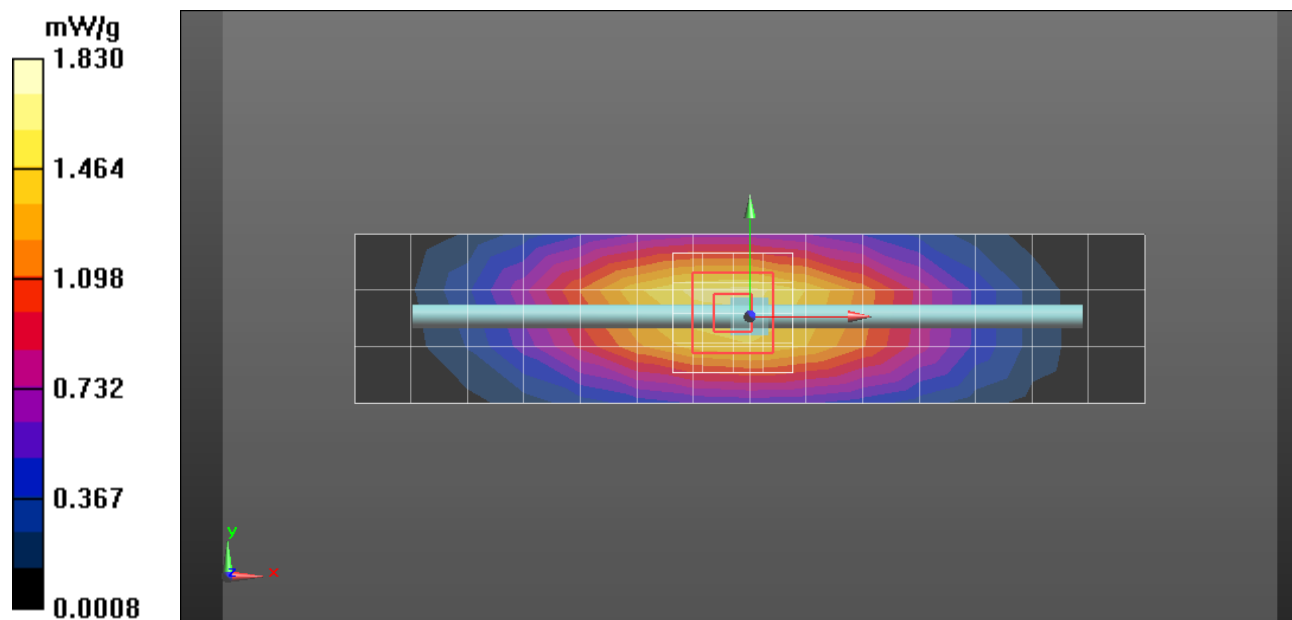
Medium parameters used: $f = 750 \text{ MHz}$; $\sigma = 0.95 \text{ mho/m}$; $\epsilon_r = 55.4$; $\rho = 1000 \text{ kg/m}^3$ **DASY4 Configuration:**

- Probe: ES3DV3 - SN3115; ConvF(5.97, 5.97, 5.97); Calibrated: 1/11/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn699; Calibrated: 9/22/2011
- Phantom: R#2 Triple Flat Phantom 5.1C (Rev.4); Type: QD 000 P51 CA; Serial: n/a; Phantom section: Center Section
- SEMCAD X Version 14.6.5 (6469)

DASY5, Triple Flat System Performance Check Template - Dipole Area Scan (4x15x1):Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$; Maximum value of SAR (measured) = 1.64 mW/g**DASY5, Triple Flat System Performance Check Template - 0-Degree 5x5x7 Cube****(5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 44.391 V/m; Power Drift = -0.00 dB; Peak SAR (extrapolated) = 2.433 mW/g

SAR(1 g) = 1.69 mW/g; SAR(10 g) = 1.12 mW/g; Maximum value of SAR (measured) = 1.83 mW/g**DASY5, Triple Flat System Performance Check Template - Z-Axis Retraction (1x1x31):**Measurement grid: $dx=20\text{mm}$, $dy=20\text{mm}$, $dz=5\text{mm}$



Date/Time: 7/14/2012 8:53:06 AM

Test Laboratory: Motorola Mobility - Jul-14-2012 750 MHz Body**DUT: Dipole 750 MHz; Type: D750V3; Serial: D750V3 - 1040; FCC ID: IHDT56NG9**

Procedure Notes: 750 MHz System Performance Check; Dipole Sn# 1040; Input Power = 200 mW

Sim.Temp@meas = 19.2°C; Sim.Temp@SPC = 20.1°C; Room Temp @ SPC = 20.6°C

Communication System: _CW - Dipole; Frequency: 750 MHz; Duty Cycle: 1:1

Medium: Validation *BODY Tissue* 750 GLYCOL

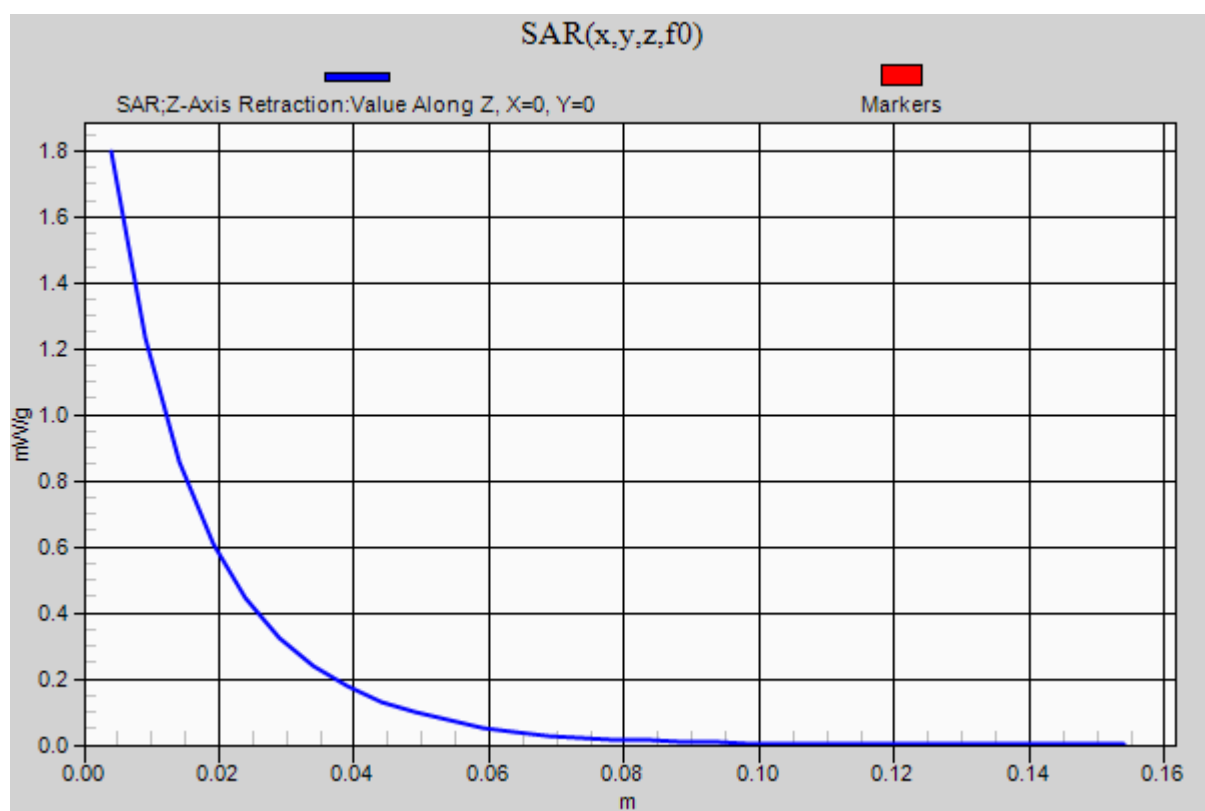
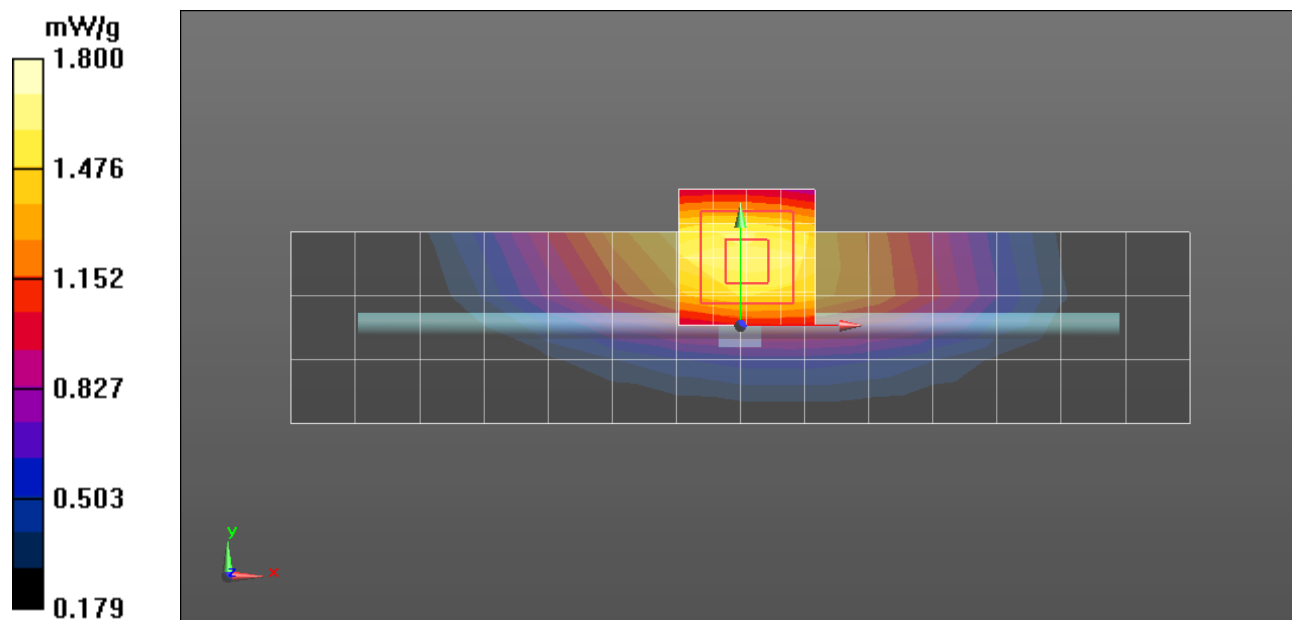
Medium parameters used: $f = 750 \text{ MHz}$; $\sigma = 0.96 \text{ mho/m}$; $\epsilon_r = 55$; $\rho = 1000 \text{ kg/m}^3$ **DASY4 Configuration:**

- Probe: ES3DV3 - SN3115; ConvF(5.97, 5.97, 5.97); Calibrated: 1/11/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn699; Calibrated: 9/22/2011
- Phantom: R#2 Triple Flat Phantom 5.1C (Rev.4); Type: QD 000 P51 CA;
Serial: n/a; Phantom section: Center Section
- SEMCAD X Version 14.6.5 (6469)

DASY5, Triple Flat System Performance Check Template - Dipole Area Scan (4x15x1):Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$; Maximum value of SAR (measured) = 1.61 mW/g**DASY5, Triple Flat System Performance Check Template - 0-Degree 5x5x7 Cube****(5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 33.036 V/m; Power Drift = 0.00 dB; Peak SAR (extrapolated) = 2.410 mW/g

SAR(1 g) = 1.67 mW/g; SAR(10 g) = 1.11 mW/g; Maximum value of SAR (measured) = 1.80 mW/g**DASY5, Triple Flat System Performance Check Template - Z-Axis Retraction (1x1x31):**Measurement grid: $dx=20\text{mm}$, $dy=20\text{mm}$, $dz=5\text{mm}$



Date/Time: 4/19/2012 2:02:07 AM

Test Laboratory: Motorola Mobility - Apr-19-2012 835 MHz Body**DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN: 4D128; FCC ID: IHDT56NG9**

Procedure Notes: 835 MHz System Performance Check; Dipole Sn# 4D128; Input Power = 200 mW

Sim.Temp@meas = 18.7°C; Sim.Temp@SPC = 19.7°C; Room Temp @ SPC = 20.7°C

Communication System: _CW - Dipole; Frequency: 835 MHz; Duty Cycle: 1:1

Medium: Validation *BODY Tissue*

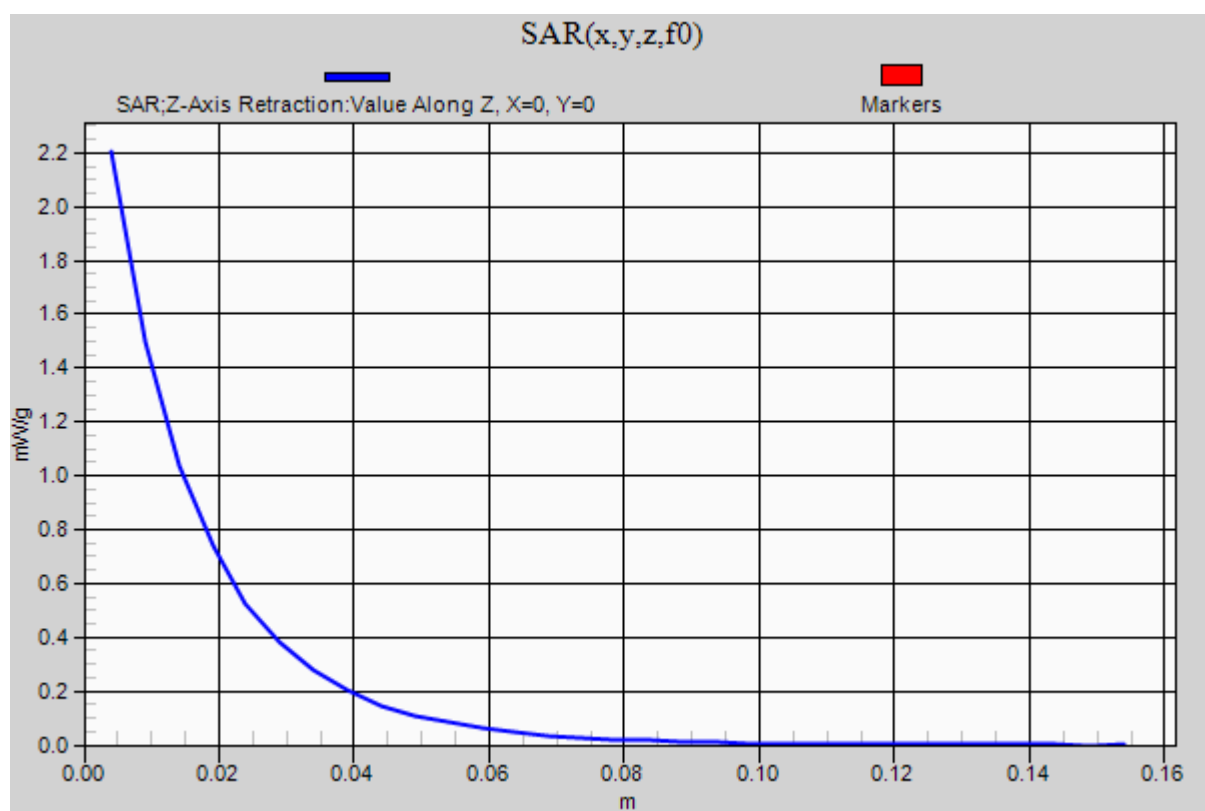
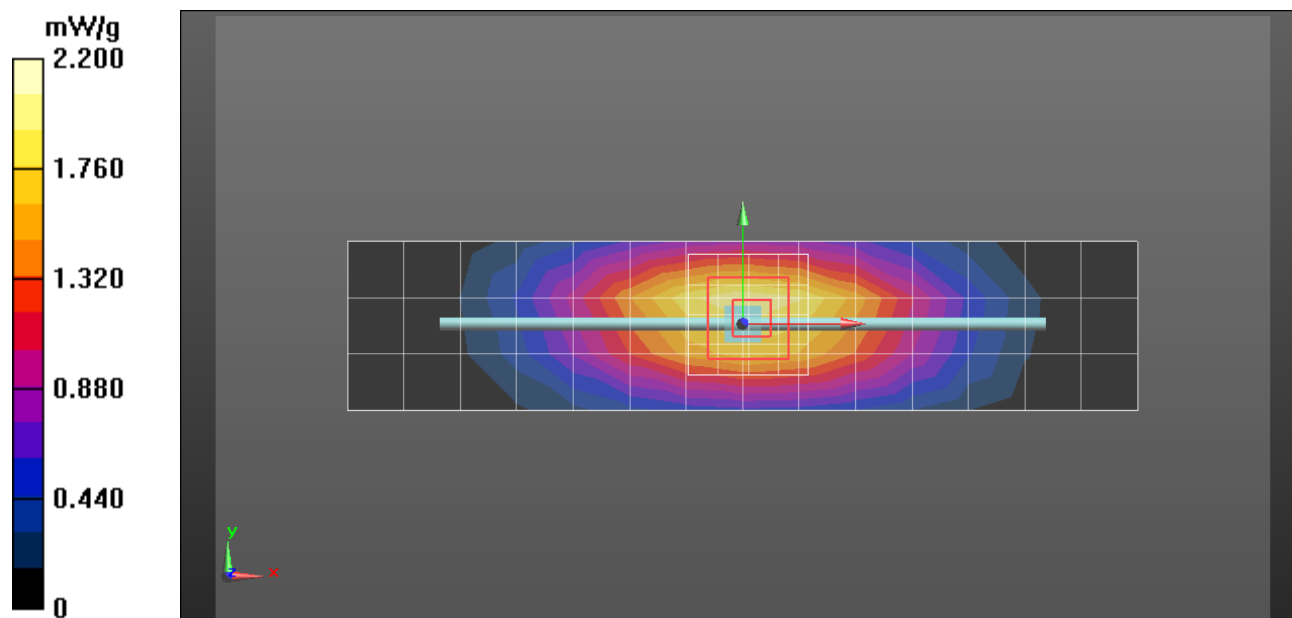
Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.99 \text{ mho/m}$; $\epsilon_r = 53.6$; $\rho = 1000 \text{ kg/m}^3$ **DASY4 Configuration:**

- Probe: ES3DV3 - SN3124; ConvF(6.04, 6.04, 6.04); Calibrated: 8/23/2011;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn376; Calibrated: 8/31/2011
- Phantom: R#-1, Triple Flat Phantom 5.1C (Rev.4); Type: QD 000 P51 CA;
Serial: n/a; Phantom section: Center Section
- SEMCAD X Version 14.6.5 (6469)

DASY5, Triple Flat System Performance Check Template - Dipole Area Scan (4x15x1):Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$; Maximum value of SAR (measured) = 2.05 mW/g**DASY5, Triple Flat System Performance Check Template - 0-Degree 5x5x7 Cube****(5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 47.382 V/m; Power Drift = -0.01 dB; Peak SAR (extrapolated) = 3.022 mW/g

SAR(1 g) = 2.05 mW/g; SAR(10 g) = 1.34 mW/g; Maximum value of SAR (measured) = 2.21 mW/g**DASY5, Triple Flat System Performance Check Template - Z-Axis Retraction (1x1x31):**Measurement grid: $dx=20\text{mm}$, $dy=20\text{mm}$, $dz=5\text{mm}$; Maximum value of SAR (measured) = 2.20 mW/g



Date/Time: 4/20/2012 4:51:41 PM

Test Laboratory: Motorola Mobility - Apr-20-2012 835 MHz Body**DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN: 4D128; FCC ID: IHDT56NG9**

Procedure Notes: 835 MHz System Performance Check; Dipole Sn# 4D128; Input Power = 200 mW

Sim.Temp@meas = 19.3°C; Sim.Temp@SPC = 18.8°C; Room Temp @ SPC = 20.4°C

Communication System: _CW - Dipole; Frequency: 835 MHz; Duty Cycle: 1:1

Medium: Validation *BODY Tissue*

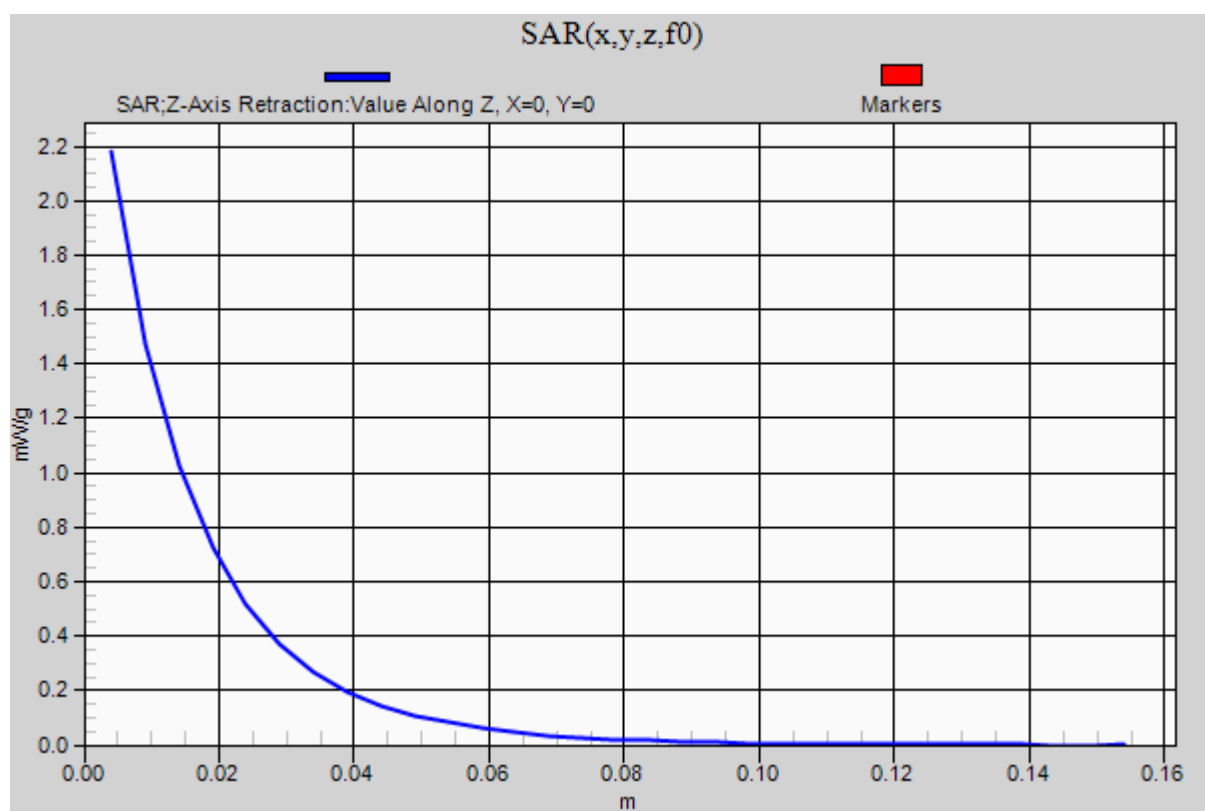
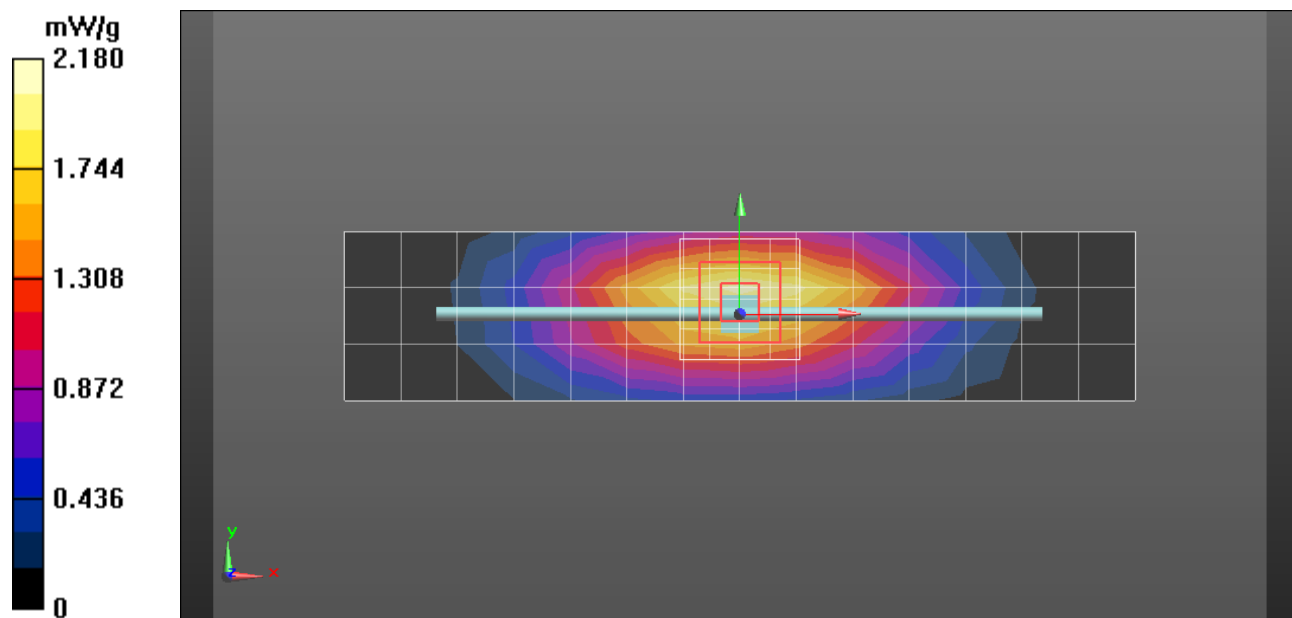
Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.98 \text{ mho/m}$; $\epsilon_r = 55$; $\rho = 1000 \text{ kg/m}^3$ **DASY4 Configuration:**

- Probe: ES3DV3 - SN3124; ConvF(6.04, 6.04, 6.04); Calibrated: 8/23/2011;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn376; Calibrated: 8/31/2011
- Phantom: R#-1, Triple Flat Phantom 5.1C (Rev.4); Type: QD 000 P51 CA;
Serial: n/a; Phantom section: Center Section
- SEMCAD X Version 14.6.5 (6469)

DASY5, Triple Flat System Performance Check Template - Dipole Area Scan (4x15x1):Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$; Maximum value of SAR (measured) = 2.10 mW/g**DASY5, Triple Flat System Performance Check Template - 0-Degree 5x5x7 Cube****(5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 46.966 V/m; Power Drift = -0.06 dB; Peak SAR (extrapolated) = 3.008 mW/g

SAR(1 g) = 2.02 mW/g; SAR(10 g) = 1.32 mW/g; Maximum value of SAR (measured) = 2.18 mW/g**DASY5, Triple Flat System Performance Check Template - Z-Axis Retraction (1x1x31):**Measurement grid: $dx=20\text{mm}$, $dy=20\text{mm}$, $dz=5\text{mm}$



Date/Time: 4/19/2012 4:45:39 PM

Test Laboratory: Motorola Mobility - Apr-19-2012 1800 MHz Body**DUT: Dipole 1800 MHz; Type: D1800V2; Serial: D1800V2 - SN: 259TR; FCC ID: IHDT56NG9**

Procedure Notes: 1800 MHz System Performance Check; Dipole Sn# 259TR; Input Power = 200 mW

Sim.Temp@meas = 18.8°C; Sim.Temp@SPC = 19.6°C; Room Temp @ SPC = 20.5°C

Communication System: _CW - Dipole; Frequency: 1800 MHz; Duty Cycle: 1:1

Medium: Validation *BODY Tissue*

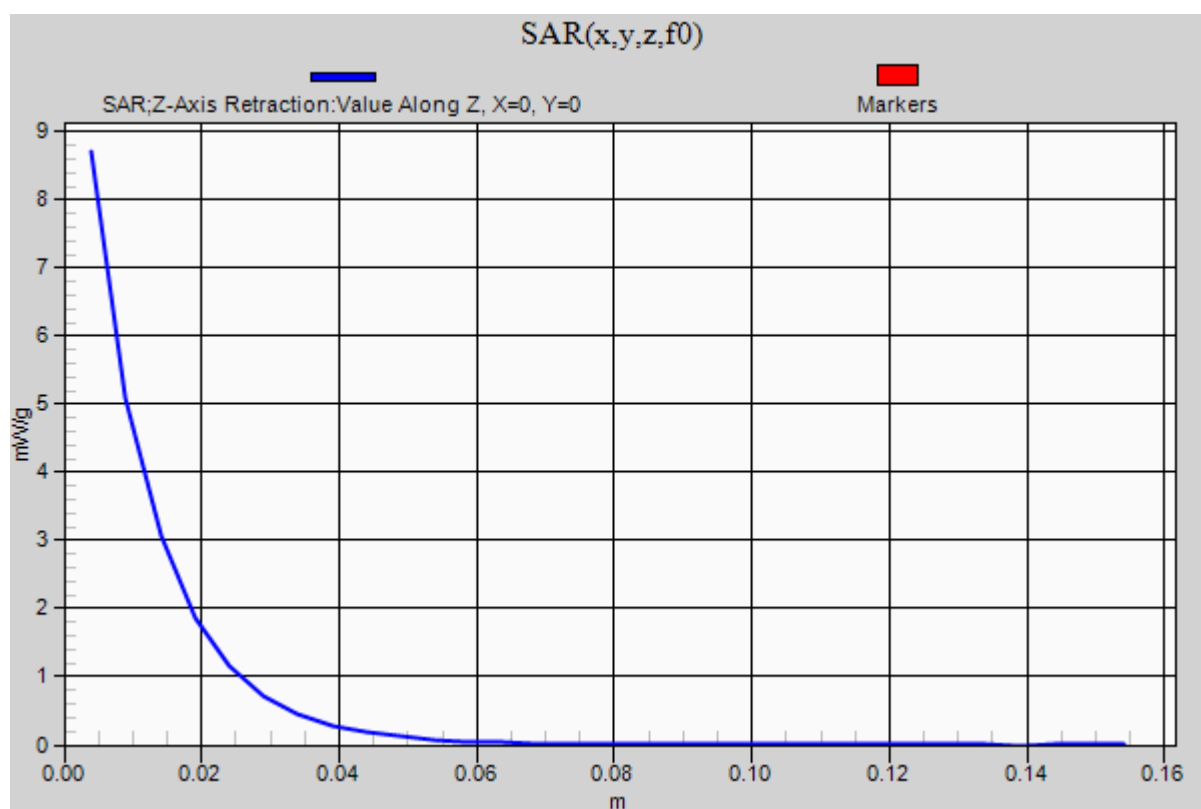
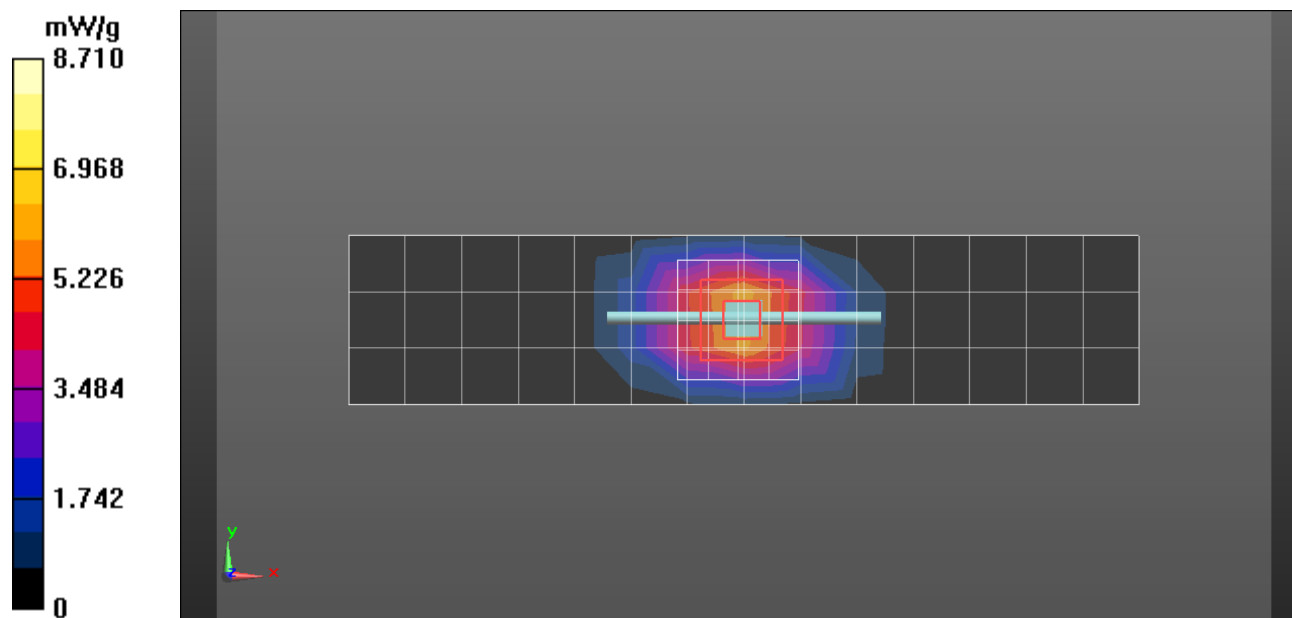
Medium parameters used: $f = 1800 \text{ MHz}$; $\sigma = 1.49 \text{ mho/m}$; $\epsilon_r = 51.1$; $\rho = 1000 \text{ kg/m}^3$ **DASY4 Configuration:**

- Probe: ES3DV3 - SN3124; ConvF(4.69, 4.69, 4.69); Calibrated: 8/23/2011;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn376; Calibrated: 8/31/2011
- Phantom: R#-1, Triple Flat Phantom 5.1C (Rev.4); Type: QD 000 P51 CA;
Serial: n/a; Phantom section: Left Section
- SEMCAD X Version 14.6.5 (6469)

DASY5, Triple Flat System Performance Check Template - Dipole Area Scan (4x15x1):Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$; Maximum value of SAR (measured) = 6.13 mW/g**DASY5, Triple Flat System Performance Check Template - 0-Degree 5x5x7 Cube****(5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 78.006 V/m; Power Drift = -0.07 dB; Peak SAR (extrapolated) = 13.691 mW/g

SAR(1 g) = 7.76 mW/g; SAR(10 g) = 4.15 mW/g; Maximum value of SAR (measured) = 8.72 mW/g**DASY5, Triple Flat System Performance Check Template - Z-Axis Retraction (1x1x31):**Measurement grid: $dx=20\text{mm}$, $dy=20\text{mm}$, $dz=5\text{mm}$; Maximum value of SAR (measured) = 8.71 mW/g



Date/Time: 4/20/2012 5:23:40 PM

Test Laboratory: Motorola Mobility - Apr-20-2012 1800 MHz Body**DUT: Dipole 1800 MHz; Type: D1800V2; Serial: D1800V2 - SN:259TR; FCC ID: IHDT56NG9**

Procedure Notes: 1800 MHz System Performance Check; Dipole Sn# 259TR; Input Power = 200 mW

Sim.Temp@meas = 18.8°C; Sim.Temp@SPC = 19.6°C; Room Temp @ SPC = 20.3°C

Communication System: _CW - Dipole; Frequency: 1800 MHz; Duty Cycle: 1:1

Medium: Validation *BODY Tissue*

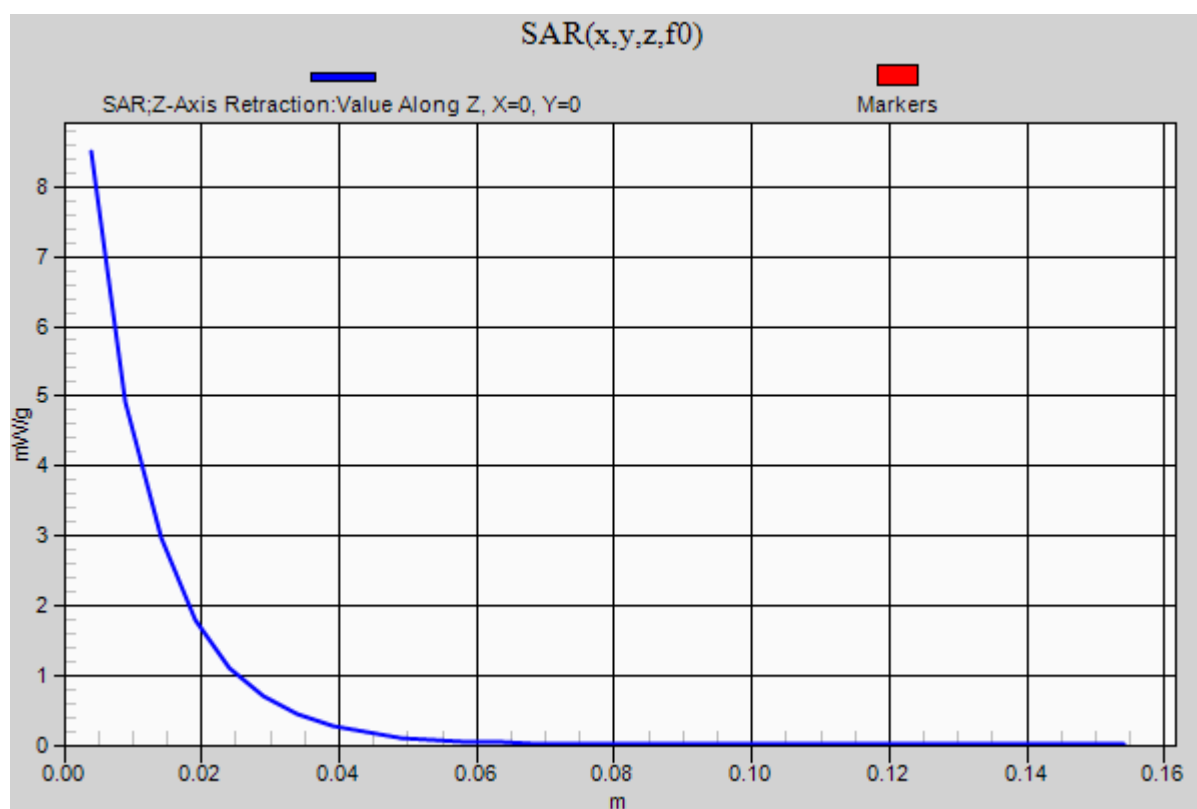
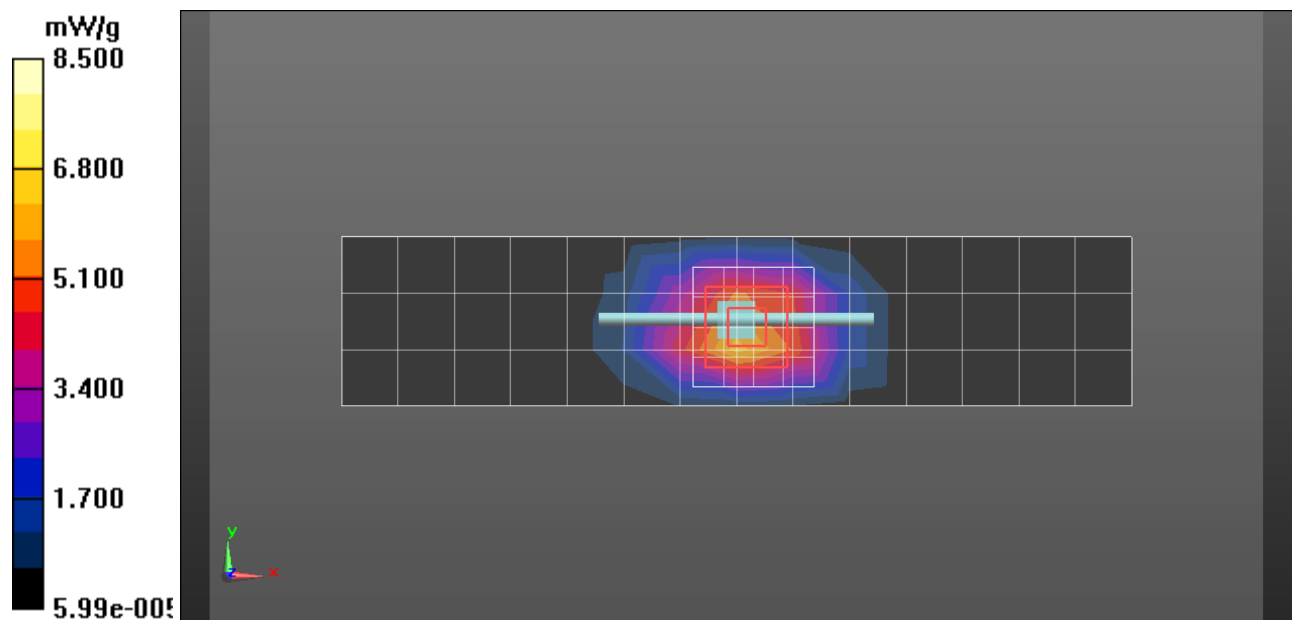
Medium parameters used: $f = 1800 \text{ MHz}$; $\sigma = 1.46 \text{ mho/m}$; $\epsilon_r = 52.2$; $\rho = 1000 \text{ kg/m}^3$ **DASY4 Configuration:**

- Probe: ES3DV3 - SN3124; ConvF(4.69, 4.69, 4.69); Calibrated: 8/23/2011;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn376; Calibrated: 8/31/2011
- Phantom: R#-1, Triple Flat Phantom 5.1C (Rev.4); Type: QD 000 P51 CA;
Serial: n/a; Phantom section: Left Section
- SEMCAD X Version 14.6.5 (6469)

DASY5, Triple Flat System Performance Check Template - Dipole Area Scan (4x15x1):Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$; Maximum value of SAR (measured) = 6.52 mW/g**DASY5, Triple Flat System Performance Check Template - 0-Degree 5x5x7 Cube****(5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 76.269 V/m; Power Drift = -0.01 dB; Peak SAR (extrapolated) = 13.421 mW/g

SAR(1 g) = 7.57 mW/g; SAR(10 g) = 4.04 mW/g; Maximum value of SAR (measured) = 8.50 mW/g**DASY5, Triple Flat System Performance Check Template - Z-Axis Retraction (1x1x31):**Measurement grid: $dx=20\text{mm}$, $dy=20\text{mm}$, $dz=5\text{mm}$



Date/Time: 5/3/2012 7:21:08 AM

Test Laboratory: Motorola Mobility - May-03-2012 1800 MHz Body**DUT: Dipole 1800 MHz; Type: D1800V2; Serial: D1800V2 - SN:2D191; FCC ID: IHDT56NG9**

Procedure Notes: 1800 MHz System Performance Check; Dipole Sn# 2D191; Input Power = 200 mW

Sim.Temp@meas = 19.0°C; Sim.Temp@SPC = 20.2°C; Room Temp @ SPC = 20.6°C

Communication System: CW; Frequency: 1800 MHz; Duty Cycle: 1:1

Medium: Validation *BODY Tissue*

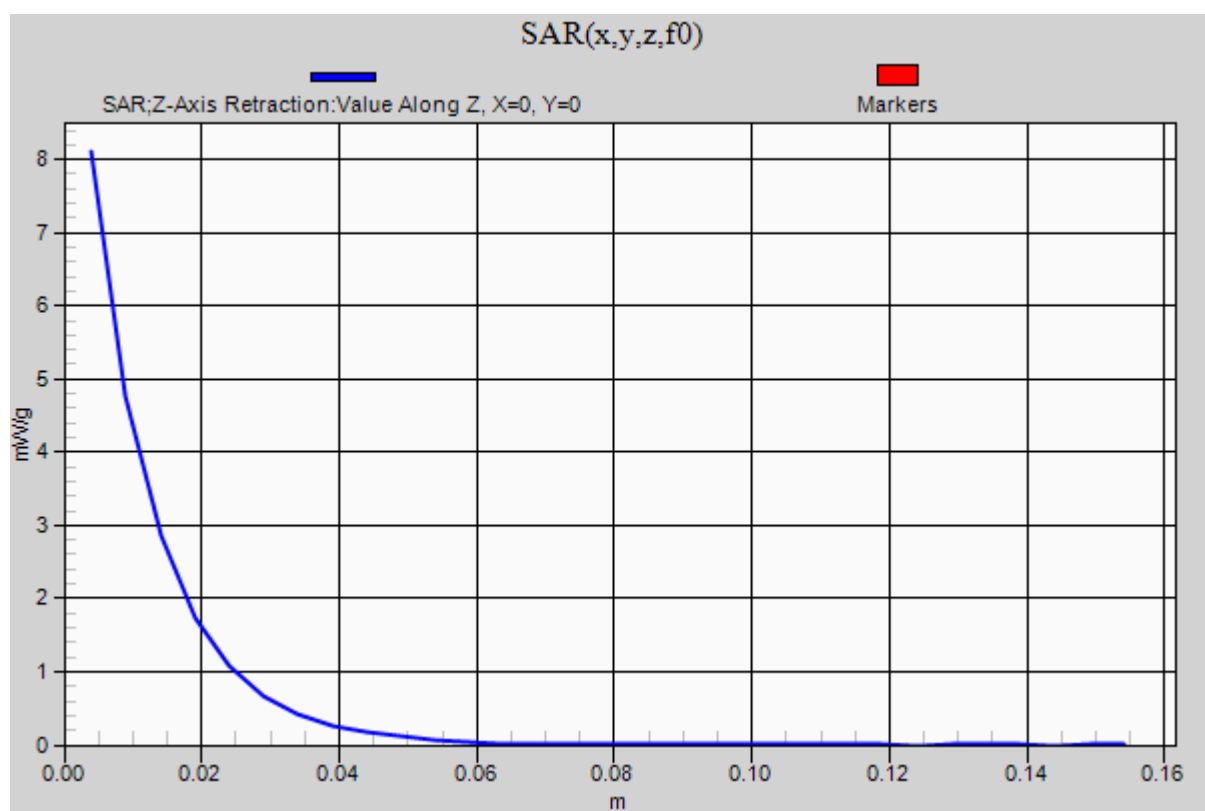
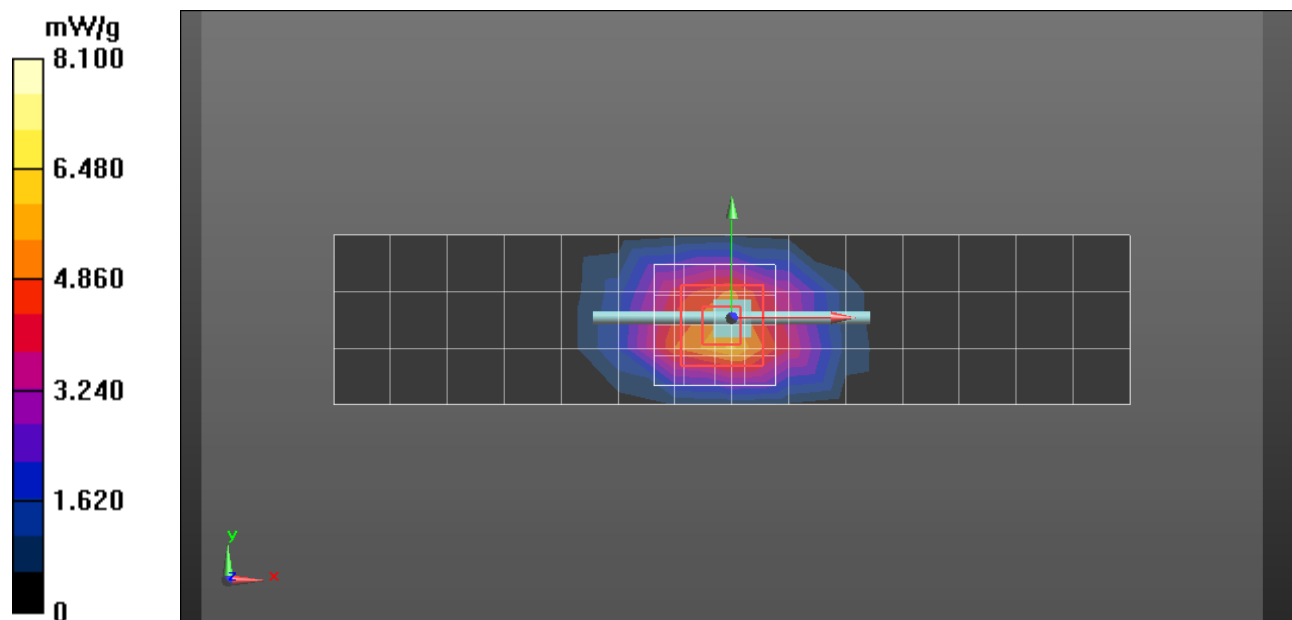
Medium parameters used: $f = 1800 \text{ MHz}$; $\sigma = 1.48 \text{ mho/m}$; $\epsilon_r = 52$; $\rho = 1000 \text{ kg/m}^3$ **DASY4 Configuration:**

- Probe: ES3DV3 - SN3284; ConvF(5.28, 5.28, 5.28); Calibrated: 1/10/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1310; Calibrated: 1/11/2012
- Phantom: R#4, Triple Flat Phantom 5.1C (Rev.4); Type: QD 000 P51 CA;
Serial: n/a; Phantom section: Center Section
- SEMCAD X Version 14.6.5 (6469)

DASY5, Triple Flat System Performance Check Template - Dipole Area Scan (4x15x1):Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$; Maximum value of SAR (measured) = 6.09 mW/g**DASY5, Triple Flat System Performance Check Template - 0-Degree 5x5x7 Cube****(5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 74.566 V/m; Power Drift = 0.03 dB; Peak SAR (extrapolated) = 12.511 mW/g

SAR(1 g) = 7.2 mW/g; SAR(10 g) = 3.85 mW/g; Maximum value of SAR (measured) = 8.07 mW/g**DASY5, Triple Flat System Performance Check Template - Z-Axis Retraction (1x1x31):**Measurement grid: $dx=20\text{mm}$, $dy=20\text{mm}$, $dz=5\text{mm}$; Maximum value of SAR (measured) = 8.10 mW/g



Date/Time: 5/4/2012 9:49:59 AM

Test Laboratory: Motorola Mobility - May-04-2012 1800 MHz Body**DUT: Dipole 1800 MHz; Type: D1800V2; Serial: D1800V2 - SN: 2D191; FCC ID: IHDT56NG9**

Procedure Notes: 1800 MHz System Performance Check; Dipole Sn# 2D191; Input Power = 200 mW

Sim.Temp@meas = 18.9°C; Sim.Temp@SPC = 19.0°C; Room Temp @ SPC = 20.1°C

Communication System: _CW - Dipole; Frequency: 1800 MHz; Duty Cycle: 1:1

Medium: Validation *BODY Tissue*

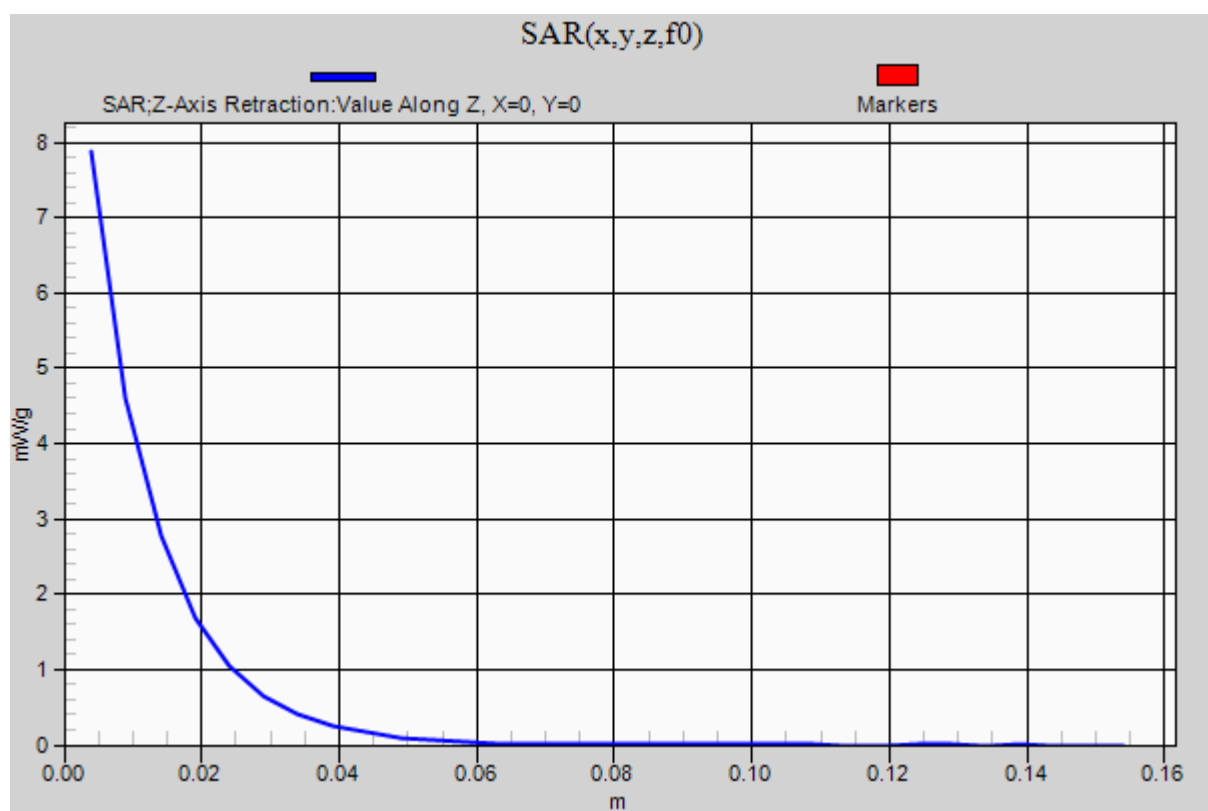
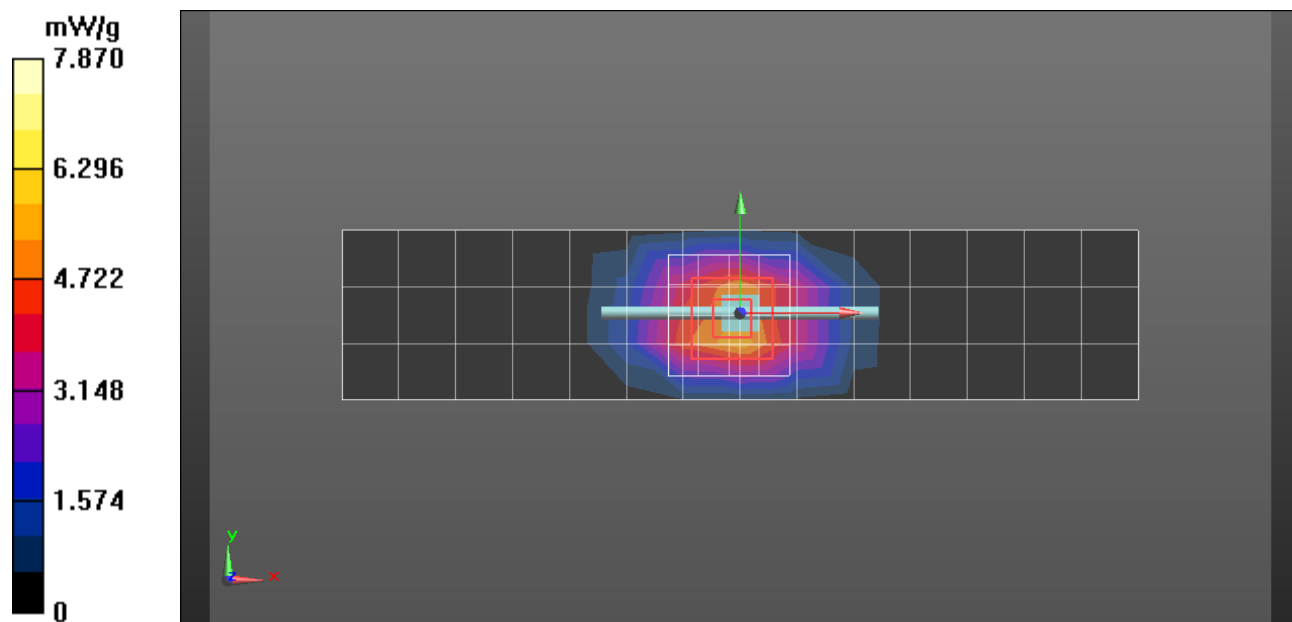
Medium parameters used: $f = 1800 \text{ MHz}$; $\sigma = 1.47 \text{ mho/m}$; $\epsilon_r = 52.7$; $\rho = 1000 \text{ kg/m}^3$ **DASY4 Configuration:**

- Probe: ES3DV3 - SN3284; ConvF(5.28, 5.28, 5.28); Calibrated: 1/10/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1310; Calibrated: 1/11/2012
- Phantom: R#4, Triple Flat Phantom 5.1C (Rev.4); Type: QD 000 P51 CA;
Serial: n/a; Phantom section: Center Section
- SEMCAD X Version 14.6.5 (6469)

DASY5, Triple Flat System Performance Check Template - Dipole Area Scan (4x15x1):Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$; Maximum value of SAR (measured) = 5.70 mW/g**DASY5, Triple Flat System Performance Check Template - 0-Degree 5x5x7 Cube****(5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 74.612 V/m; Power Drift = -0.00 dB; Peak SAR (extrapolated) = 12.057 mW/g

SAR(1 g) = 6.96 mW/g; SAR(10 g) = 3.72 mW/g; Maximum value of SAR (measured) = 7.83 mW/g**DASY5, Triple Flat System Performance Check Template - Z-Axis Retraction (1x1x31):**Measurement grid: $dx=20\text{mm}$, $dy=20\text{mm}$, $dz=5\text{mm}$; Maximum value of SAR (measured) = 7.87 mW/g



Date/Time: 7/27/2012 7:20:32 AM

Test Laboratory: Motorola Mobility - Jul-27-2012 1800 MHz Body**DUT: Dipole 1800 MHz; Type: D1800V2; Serial: D1800V2 - SN: 2D191; FCC ID: IHDT56NG9**

Procedure Notes: 1800 MHz System Performance Check; Dipole Sn# 2D191; Input Power = 200 mW

Sim.Temp@meas = 19.7°C; Sim.Temp@SPC = 19.7°C; Room Temp @ SPC = 21.1°C

Communication System: _CW - Dipole; Frequency: 1800 MHz; Duty Cycle: 1:1

Medium: Validation *BODY Tissue*

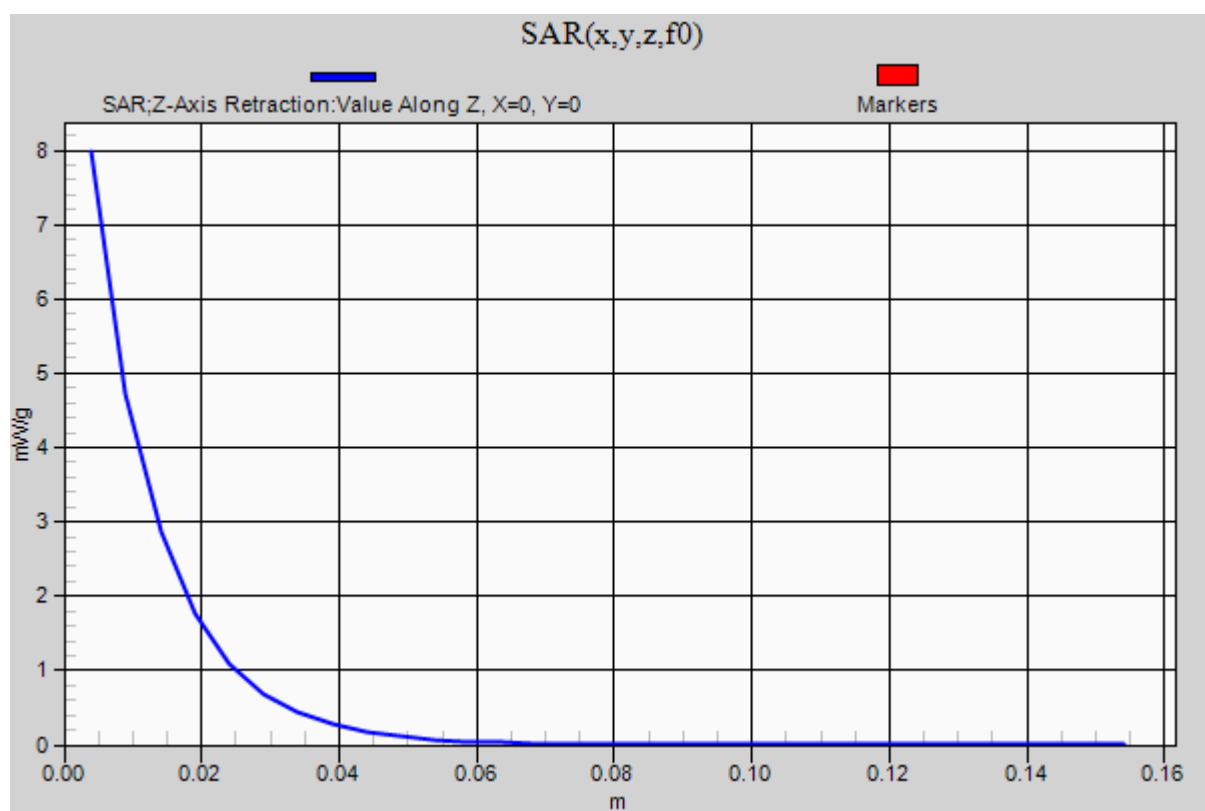
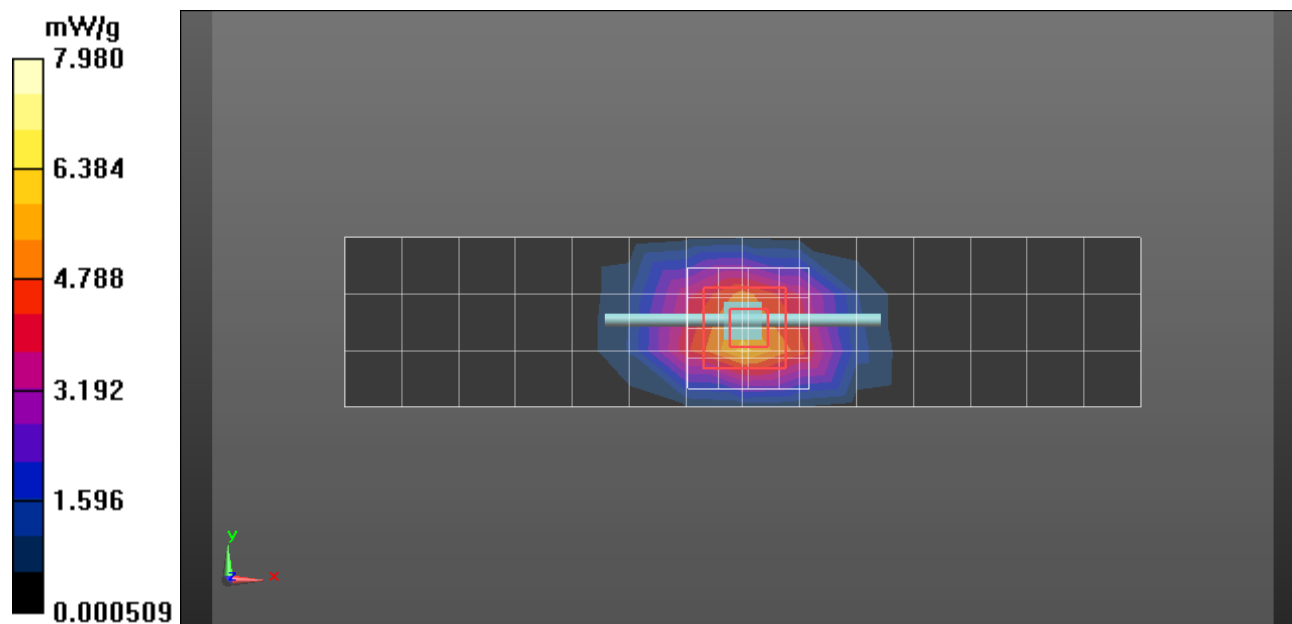
Medium parameters used: $f = 1800 \text{ MHz}$; $\sigma = 1.48 \text{ mho/m}$; $\epsilon_r = 52.9$; $\rho = 1000 \text{ kg/m}^3$ **DASY4 Configuration:**

- Probe: ES3DV3 - SN3284; ConvF(5.28, 5.28, 5.28); Calibrated: 1/10/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1310; Calibrated: 1/11/2012
- Phantom: R#4, Triple Flat Phantom 5.1C (Rev.4); Type: QD 000 P51 CA;
Serial: n/a; Phantom section: Left Section
- SEMCAD X Version 14.6.5 (6469)

DASY5, Triple Flat System Performance Check Template - Dipole Area Scan (4x15x1):Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$; Maximum value of SAR (measured) = 6.09 mW/g**DASY5, Triple Flat System Performance Check Template - 0-Degree 5x5x7 Cube****(5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 74.786 V/m; Power Drift = -0.06 dB; Peak SAR (extrapolated) = 12.215 mW/g

SAR(1 g) = 7.09 mW/g; SAR(10 g) = 3.81 mW/g; Maximum value of SAR (measured) = 8.00 mW/g**DASY5, Triple Flat System Performance Check Template - Z-Axis Retraction (1x1x31):**Measurement grid: $dx=20\text{mm}$, $dy=20\text{mm}$, $dz=5\text{mm}$; Maximum value of SAR (measured) = 7.98 mW/g



Date/Time: 7/17/2012 11:03:56 PM

Test Laboratory: Motorola Mobility - Jul-17-2012 1800 MHz Body**DUT: Dipole 1800 MHz; Type: D1800V2; Serial: D1800V2 - SN: 2D190; FCC ID: IHDT56NG9**

Procedure Notes: 1800 MHz System Performance Check; Dipole Sn# 2D190; Input Power = 200 mW

Sim.Temp@meas = 19.5°C; Sim.Temp@SPC = 19.1°C; Room Temp @ SPC = 20.8°C

Communication System: _CW - Dipole; Frequency: 1800 MHz; Duty Cycle: 1:1

Medium: Validation *BODY Tissue*

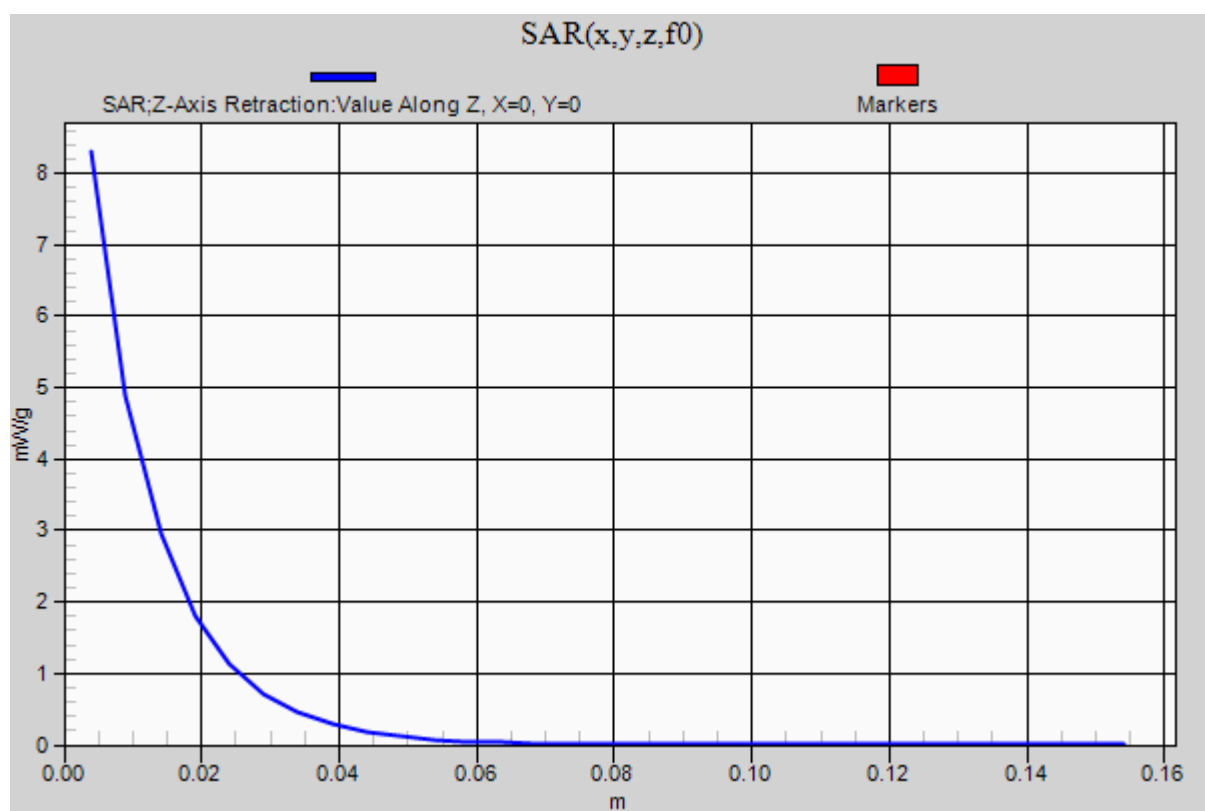
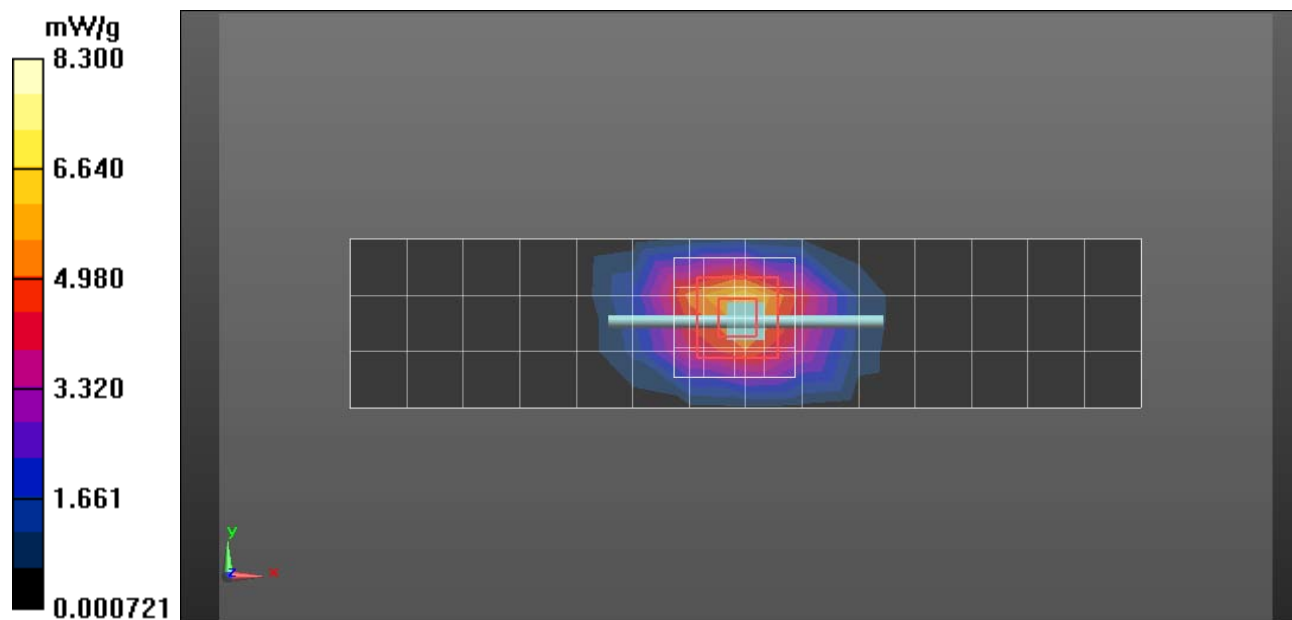
Medium parameters used: $f = 1800 \text{ MHz}$; $\sigma = 1.48 \text{ mho/m}$; $\epsilon_r = 52.7$; $\rho = 1000 \text{ kg/m}^3$ **DASY4 Configuration:**

- Probe: ES3DV3 - SN3115; ConvF(4.72, 4.72, 4.72); Calibrated: 1/11/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn699; Calibrated: 9/22/2011
- Phantom: R#2 Triple Flat Phantom 5.1C (Rev.4); Type: QD 000 P51 CA;
Serial: n/a; Phantom section: Right Section
- SEMCAD X Version 14.6.5 (6469)

DASY5, Triple Flat System Performance Check Template - Dipole Area Scan (4x15x1):Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$; Maximum value of SAR (measured) = 6.57 mW/g**DASY5, Triple Flat System Performance Check Template - 0-Degree 5x5x7 Cube****(5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 76.157 V/m; Power Drift = -0.02 dB; Peak SAR (extrapolated) = 12.946 mW/g

SAR(1 g) = 7.41 mW/g; SAR(10 g) = 3.97 mW/g; Maximum value of SAR (measured) = 8.35 mW/g**DASY5, Triple Flat System Performance Check Template - Z-Axis Retraction (1x1x31):**Measurement grid: $dx=20\text{mm}$, $dy=20\text{mm}$, $dz=5\text{mm}$; Maximum value of SAR (measured) = 8.30 mW/g



Date/Time: 7/19/2012 7:47:01 AM

Test Laboratory: Motorola Mobility - Jul-19-2012 1800 MHz Body**DUT: Dipole 1800 MHz; Type: D1800V2; Serial: D1800V2 - SN: 2D190; FCC ID: IHDT56NG9**

Procedure Notes: 1800 MHz System Performance Check; Dipole Sn# 2D190; Input Power = 200 mW

Sim.Temp@meas = 19.6°C; Sim.Temp@SPC = 19.6°C; Room Temp @ SPC = 21.5°C

Communication System: _CW - Dipole; Frequency: 1800 MHz; Duty Cycle: 1:1

Medium: Validation *BODY Tissue*

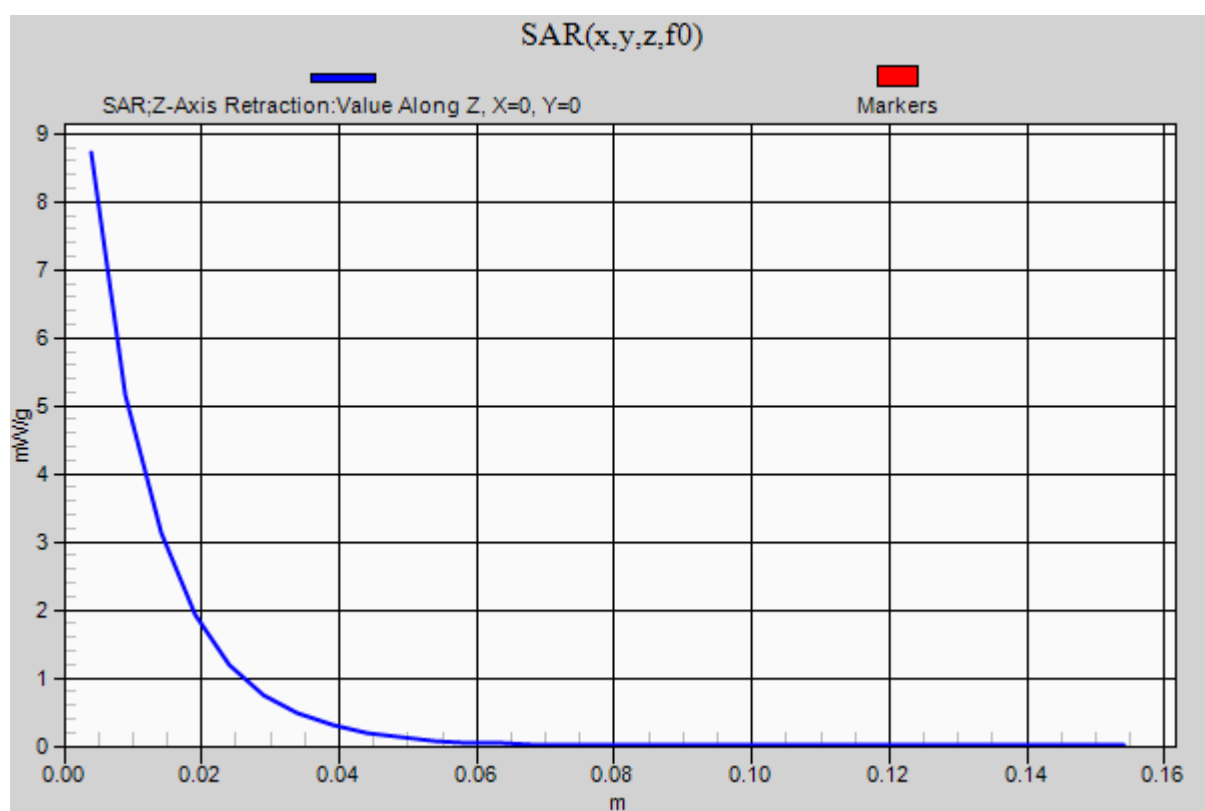
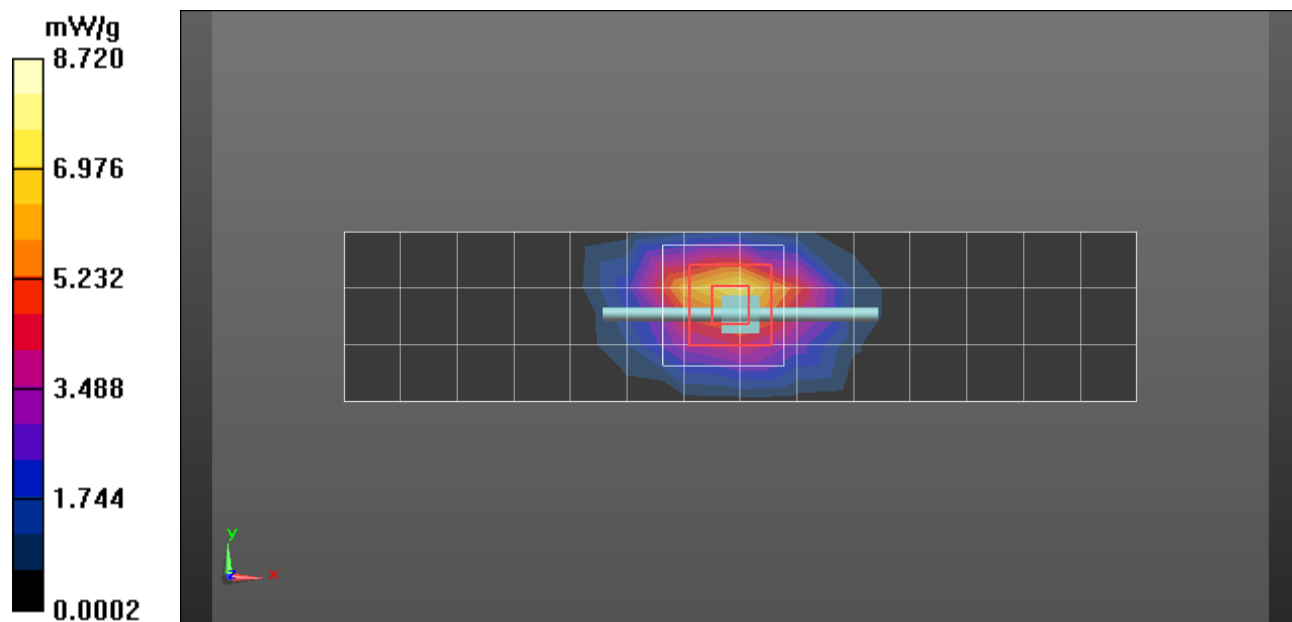
Medium parameters used: $f = 1800 \text{ MHz}$; $\sigma = 1.48 \text{ mho/m}$; $\epsilon_r = 52.6$; $\rho = 1000 \text{ kg/m}^3$ **DASY4 Configuration:**

- Probe: ES3DV3 - SN3115; ConvF(4.72, 4.72, 4.72); Calibrated: 1/11/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn699; Calibrated: 9/22/2011
- Phantom: R#2 Triple Flat Phantom 5.1C (Rev.4); Type: QD 000 P51 CA;
Serial: n/a; Phantom section: Right Section
- SEMCAD X Version 14.6.5 (6469)

DASY5, Triple Flat System Performance Check Template - Dipole Area Scan (4x15x1):Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$; Maximum value of SAR (measured) = 7.73 mW/g**DASY5, Triple Flat System Performance Check Template - 0-Degree 5x5x7 Cube****(5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 75.934 V/m; Power Drift = -0.01 dB; Peak SAR (extrapolated) = 13.506 mW/g

SAR(1 g) = 7.76 mW/g; SAR(10 g) = 4.17 mW/g; Maximum value of SAR (measured) = 8.69 mW/g**DASY5, Triple Flat System Performance Check Template - Z-Axis Retraction (1x1x31):**Measurement grid: $dx=20\text{mm}$, $dy=20\text{mm}$, $dz=5\text{mm}$; Maximum value of SAR (measured) = 8.72 mW/g



Date/Time: 7/23/2012 12:27:06 AM

Test Laboratory: Motorola Mobility - Jul-23-2012 2450 MHz Body**DUT: HAC Dipole 2450 MHz; Type: CD2450V3; Serial: 863; FCC ID: IHDT56NG9**

Procedure Notes: 2450 MHz System Performance Check; Dipole Sn# 863; Input Power = 200 mW

Sim.Temp@meas = 19.2°C; Sim.Temp@SPC = 20.2°C; Room Temp @ SPC = 21.3°C

Communication System: _CW - Dipole; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: Validation *BODY Tissue*

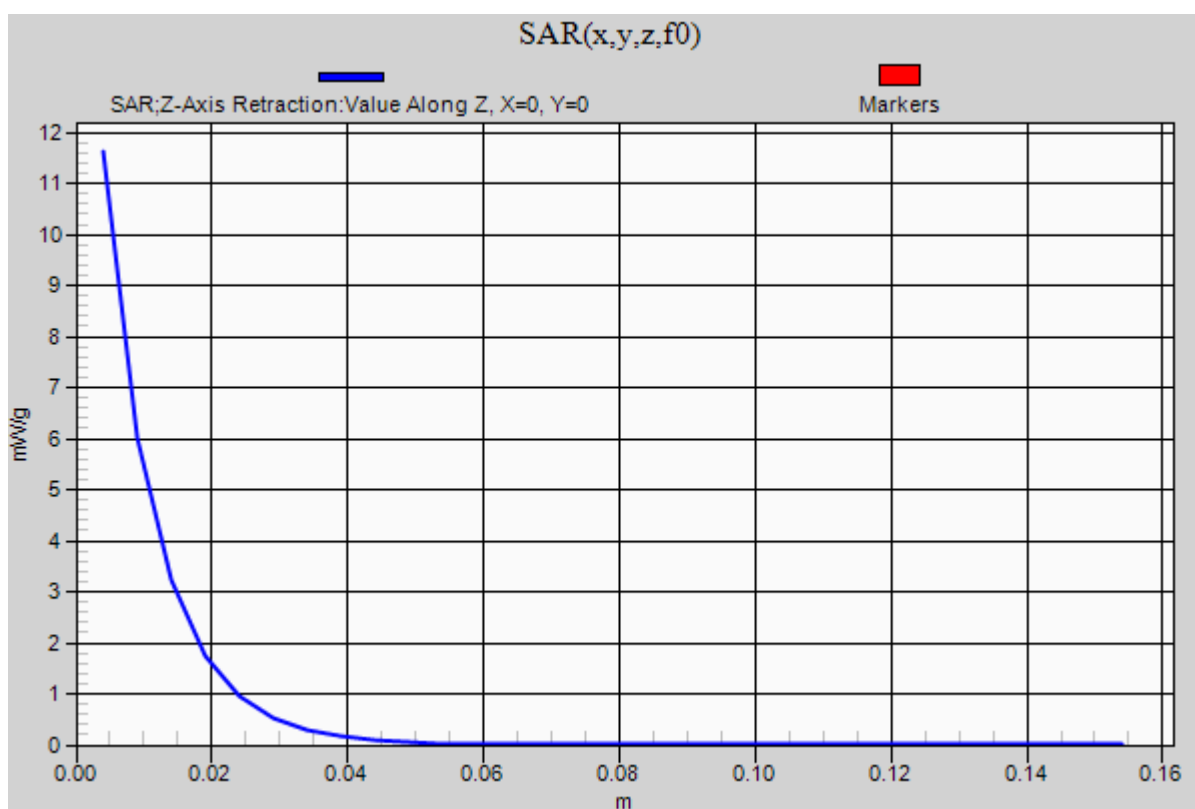
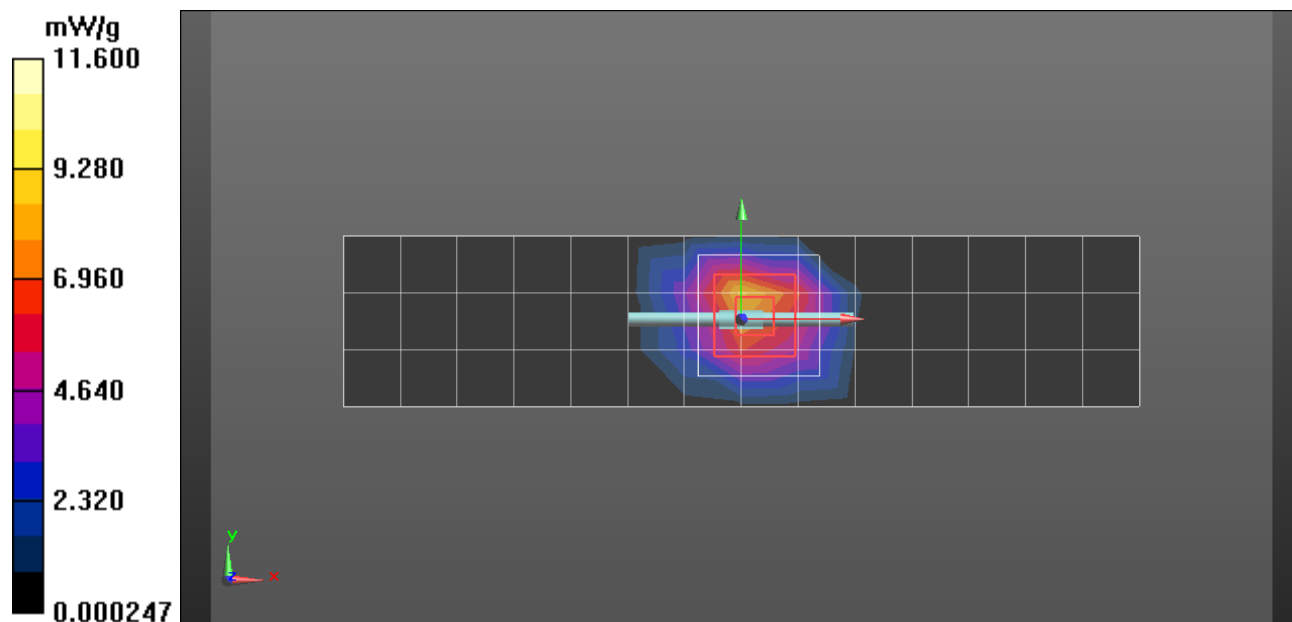
Medium parameters used: $f = 2450 \text{ MHz}$; $\sigma = 1.96 \text{ mho/m}$; $\epsilon_r = 51.9$; $\rho = 1000 \text{ kg/m}^3$ **DASY4 Configuration:**

- Probe: EX3DV4 - SN3728; ConvF(6.84, 6.84, 6.84); Calibrated: 4/24/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn440; Calibrated: 5/23/2012
- Phantom: R#-3, Triple Flat Phantom 5.1C (Rev.4); Type: QD 000 P51 CA;
Serial: n/a; Phantom section: Center Section
- SEMCAD X Version 14.6.5 (6469)

DASY5, Triple Flat System Performance Check Template - Dipole Area Scan (4x15x1):Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$; Maximum value of SAR (measured) = 8.83 mW/g**DASY5, Triple Flat System Performance Check Template - 0-Degree 5x5x7 Cube****(5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 76.841 V/m; Power Drift = -0.10 dB; Peak SAR (extrapolated) = 20.824 mW/g

SAR(1 g) = 10.4 mW/g; SAR(10 g) = 4.87 mW/g; Maximum value of SAR (measured) = 11.9 mW/g**DASY5, Triple Flat System Performance Check Template - Z-Axis Retraction (1x1x31):**Measurement grid: $dx=20\text{mm}$, $dy=20\text{mm}$, $dz=5\text{mm}$; Maximum value of SAR (measured) = 11.6 mW/g



Date/Time: 7/24/2012 1:52:48 PM

Test Laboratory: Motorola Mobility - Jul-24-2012 5200 MHz Body**DUT: Dipole 5-6GHz; Type: D5GHzV2; Serial: D5GHzV2 - SN: 1088; FCC ID: IHDT56NG9**

Procedure Notes: 5200 MHz System Performance Check; Dipole Sn# 1088; Input Power = 100 mW

Sim.Temp@meas = 19.6°C; Sim.Temp@SPC = 19.7°C; Room Temp @ SPC = 20.5°C

Communication System: _CW - Dipole; Frequency: 5200 MHz; Duty Cycle: 1:1

Medium: Validation *BODY Tissue*

Medium parameters used: $f = 5200$ MHz; $\sigma = 5.3$ mho/m; $\epsilon_r = 46.6$; $\rho = 1000$ kg/m³**DASY4 Configuration:**

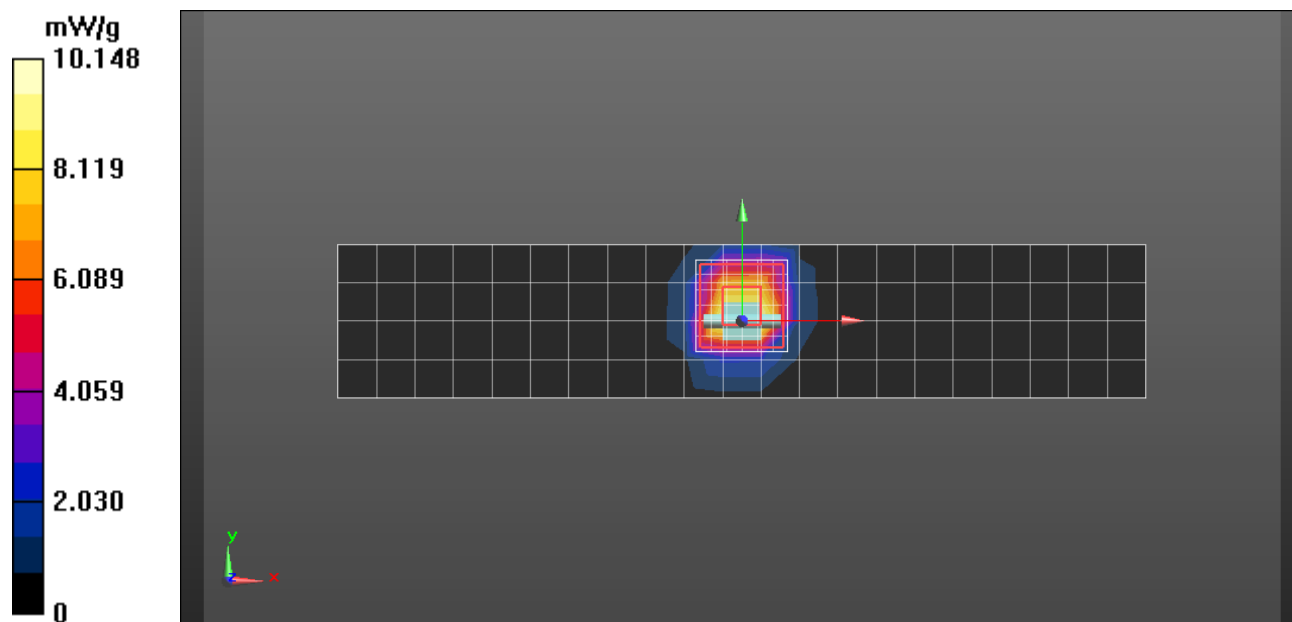
- Probe: EX3DV4 - SN3728; ConvF(4.22, 4.22, 4.22); Calibrated: 4/24/2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn440; Calibrated: 5/23/2012
- Phantom: R#-3, Triple Flat Phantom 5.1C (Rev.4); Type: QD 000 P51 CA;
Serial: n/a; Phantom section: Center Section
- SEMCAD X Version 14.6.5 (6469)

DASY5, Triple Flat System Performance Check Template, Dipole Area Scan (22x5x1):

Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 10.1 mW/g

DASY5, Triple Flat System Performance Check Template, 0-Degree, 7x7x12 Cube**(7x7x6)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 56.137 V/m; Power Drift = -0.05 dB; Peak SAR (extrapolated) = 28.844 mW/g

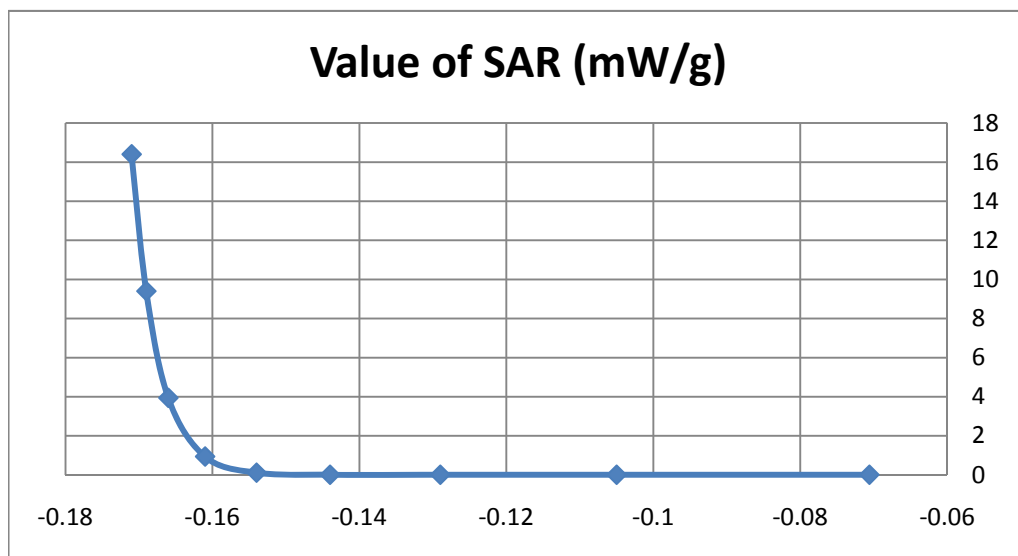
SAR(1 g) = 7.82 mW/g; SAR(10 g) = 2.21 mW/g; Maximum value of SAR (measured) = 16.3 mW/g

Jul-24-2012 5200 MHz Body - Z-axis Probe Retraction

SAR(x,y,z,f0) in mW/g

Grid: 1x1x9x1

Value of SAR	X	Y	Z
mW/g	m	m	m
16.4	8.74E-11	0.0032	-0.171
9.4	8.74E-11	0.0032	-0.169
3.94	8.74E-11	0.0032	-0.166
0.939	8.74E-11	0.0032	-0.161
0.114	8.74E-11	0.0032	-0.154
0.00776	8.74E-11	0.0032	-0.144
0.00644	8.74E-11	0.0032	-0.129
0.00737	8.74E-11	0.0032	-0.105
0.00985	8.74E-11	0.0032	-0.0706



Date/Time: 7/24/2012 2:28:30 PM

Test Laboratory: Motorola Mobility - Jul-24-2012 5800 MHz Body**DUT: Dipole 5-6GHz; Type: D5GHzV2; Serial: D5GHzV2 - SN: 1088; FCC ID: IHDT56NG9**

Procedure Notes: 5800 MHz System Performance Check; Dipole Sn# 1088; Input Power = 100 mW

Sim.Temp@meas = 19.6°C; Sim.Temp@SPC = 19.7°C; Room Temp @ SPC = 20.7°C

Communication System: _CW - Dipole; Frequency: 5800 MHz; Duty Cycle: 1:1

Medium: Validation *BODY Tissue*

Medium parameters used: $f = 5800$ MHz; $\sigma = 6.17$ mho/m; $\epsilon_r = 45.1$; $\rho = 1000$ kg/m³**DASY4 Configuration:**

- Probe: EX3DV4 - SN3728; ConvF(3.71, 3.71, 3.71); Calibrated: 4/24/2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn440; Calibrated: 5/23/2012
- Phantom: R#-3, Triple Flat Phantom 5.1C (Rev.4); Type: QD 000 P51 CA;
Serial: n/a; Phantom section: Center Section
- SEMCAD X Version 14.6.5 (6469)

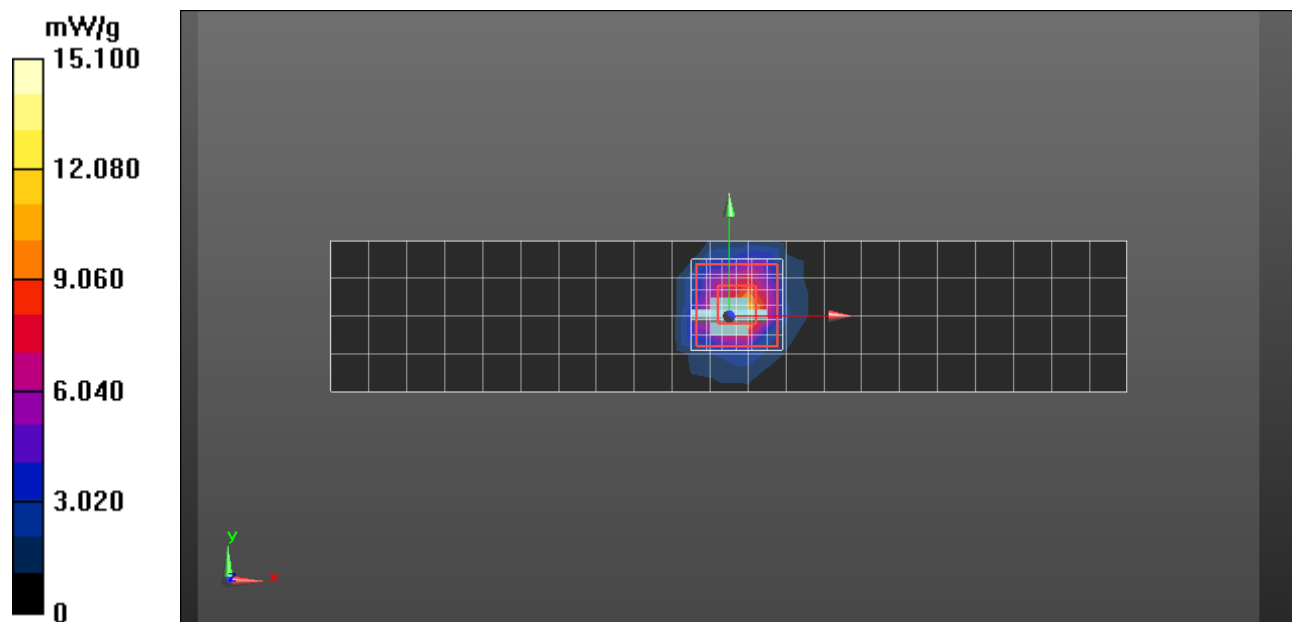
DASY5, Triple Flat System Performance Check Template, Dipole Area Scan (22x5x1):

Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 12.1 mW/g

DASY5, Triple Flat System Performance Check Template, 0-Degree, 7x7x12 Cube (7x7x6)/Cube 0:

Measurement grid: dx=4mm, dy=4mm, dz=2mm

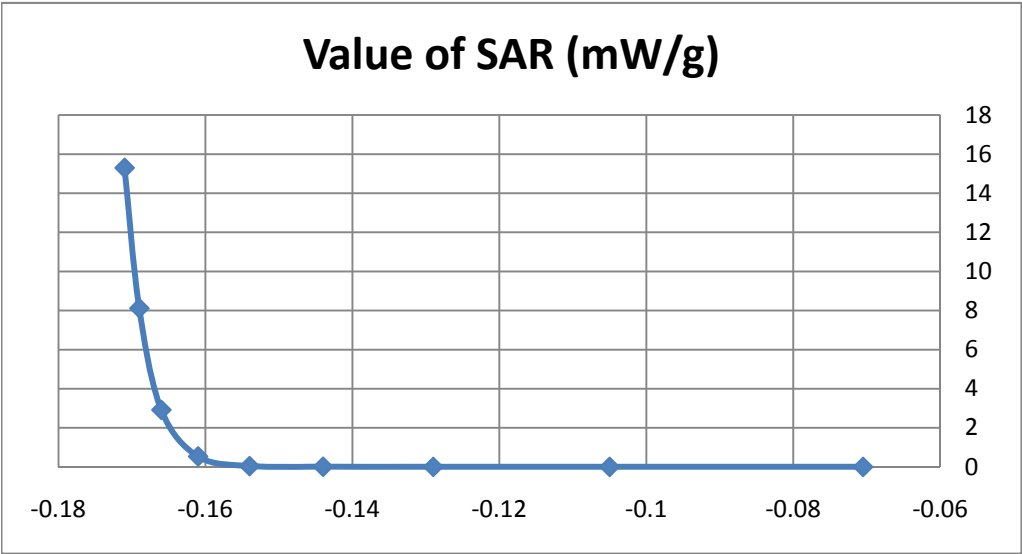
Reference Value = 50.822 V/m; Power Drift = -0.07 dB; Peak SAR (extrapolated) = 28.496 mW/g

SAR(1 g) = 6.98 mW/g; SAR(10 g) = 1.96 mW/g; Maximum value of SAR (measured) = 15.1 mW/g

Jul-24-2012 5800 MHz Body - Z-axis Probe Retraction
SAR(x,y,z,f0) in mW/g

Grid: 1x1x9x1

Value of SAR	X	Y	Z
mW/g	m	m	m
15.3	0.002	0.003	-0.171
8.12	0.002	0.003	-0.169
2.92	0.002	0.003	-0.166
0.541	0.002	0.003	-0.161
0.0459	0.002	0.003	-0.154
0.0123	0.002	0.003	-0.144
0.00692	0.002	0.003	-0.129
0.00308	0.002	0.003	-0.105
0.0039	0.002	0.003	-0.0705



Appendix 2

SAR distribution plots for Head Adjacent Test Results

Test Laboratory: Motorola Mobility LTE Band 17 Cheek Touch

DUT: Type: Phone; Serial: LVUEB20013, FCC ID: IHDT56NG9

Procedure Notes: Mode: QPSK, 1 RB High; Battery Model #: INTERNAL Test Config: CHEEK

Communication System: _LTE Band 17; Frequency: 710 MHz; Duty Cycle: 1:1

Medium: Low Freq Head; Medium parameters used: $f = 710 \text{ MHz}$; $\sigma = 0.87 \text{ mho/m}$; $\epsilon_r = 40.9$; $\rho = 1000 \text{ kg/m}^3$

DASY4 Configuration:

- Probe: ES3DV3 - SN3115; ConvF(6.05, 6.05, 6.05); Calibrated: 1/11/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn699; Calibrated: 9/22/2011
- Phantom: R#2 Glycol SAM (extended range), Rev.2 (24-Feb-12); Type: SAM v4.0; Serial: TP-1136;
- SEMCAD X Version 14.6.4 (4989)

DASY5, SAM - Phone against Left Head Template, Rev.3 (29-Sept-11)/Left Head Template/Area

Scan - Normal (15mm) (7x17x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.301 mW/g

DASY5, SAM - Phone against Left Head Template, Rev.3 (29-Sept-11)/Left Head Template/5x5x7

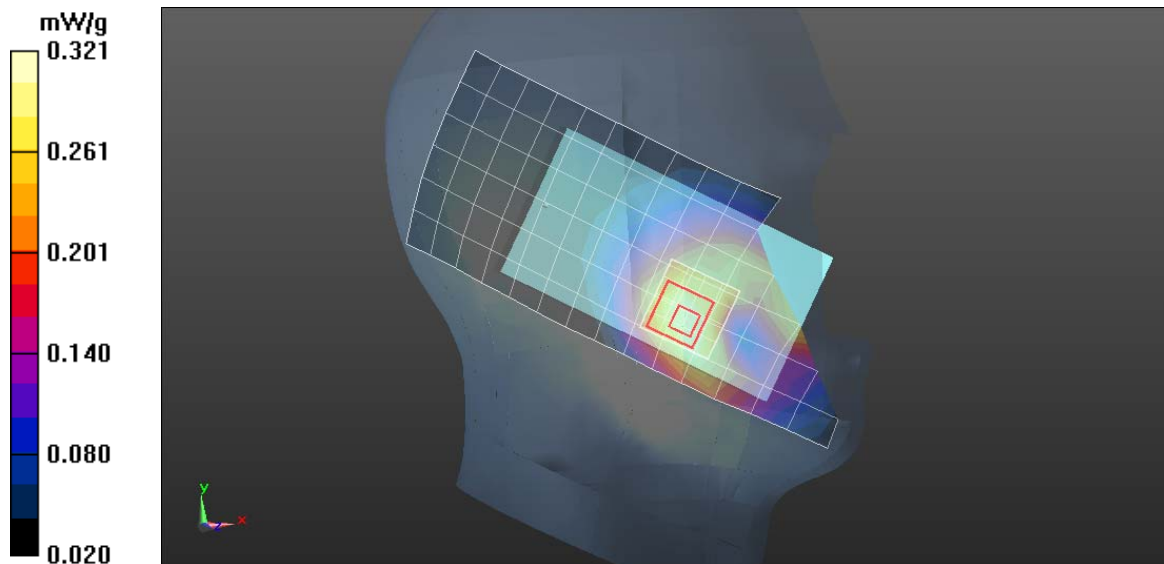
Zoom Scan ($\leq 3\text{GHz}$) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 18.721 V/m; Power Drift = -0.0013 dB

Peak SAR (extrapolated) = 0.3940

SAR(1 g) = 0.306 mW/g; SAR(10 g) = 0.223 mW/g

Maximum value of SAR (measured) = 0.321 mW/g



Test Laboratory: Motorola Mobility GSM 850MHz Cheek

DUT: Type: Tablet; Serial: LVML2A0064, FCC ID: IHDT56NG9

Procedure Notes: Pwr Step: 05 Battery Model #: INTERNAL Test Config: CHEEK

Communication System: _GPRS Class 10; Frequency: 836.6 MHz; Duty Cycle: 1:4.14954

Medium: Low Freq Head; Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.93 \text{ mho/m}$; $\epsilon_r = 41.7$; $\rho = 1000 \text{ kg/m}^3$

DASY4 Configuration:

- Probe: ES3DV3 - SN3124; ConvF(6.08, 6.08, 6.08); Calibrated: 8/23/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn376; Calibrated: 8/31/2011
- Phantom: R#1 - Sugar SAM (extended range), Rev.2 (24-Feb-12); Type: SAM v4.0; Serial: TP-1156;
- SEMCAD X Version 14.6.4 (4989)

DASY5, SAM - Phone against Left Head Template, Rev.3 (29-Sept-11)/Left Head Template/Area

Scan - Normal (15mm) (7x17x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.290 mW/g

DASY5, SAM - Phone against Left Head Template, Rev.3 (29-Sept-11)/Left Head Template/5x5x7

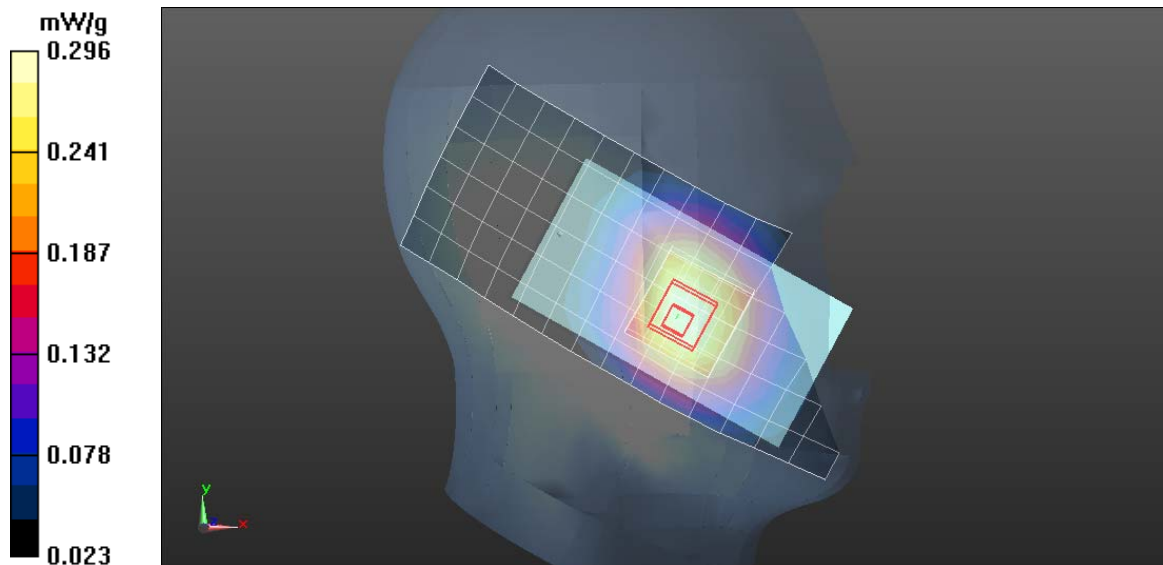
Zoom Scan ($\leq 3\text{GHz}$) (6x6x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 18.515 V/m; Power Drift = -0.44 dB

Peak SAR (extrapolated) = 0.3600

SAR(1 g) = 0.281 mW/g; SAR(10 g) = 0.214 mW/g

Maximum value of SAR (measured) = 0.296 mW/g



Test Laboratory: Motorola Mobility WCDMA 850MHz Cheek Touch

DUT: Type: Phone; Serial: LVML2A0064, FCC ID: IHDT56NG9

Procedure Notes: Pwr Step: ALL UP Battery Model #: INTERNAL Test Config: CHEEK TOUCH

Communication System: _WCDMA; Frequency: 836 MHz; Duty Cycle: 1:1

Medium: Low Freq Head; Medium parameters used: $f = 836 \text{ MHz}$; $\sigma = 0.93 \text{ mho/m}$; $\epsilon_r = 41.1$; $\rho = 1000 \text{ kg/m}^3$

DASY4 Configuration:

- Probe: ES3DV3 - SN3124; ConvF(6.08, 6.08, 6.08); Calibrated: 8/23/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn376; Calibrated: 8/31/2011
- Phantom: R#1 - Sugar SAM (extended range), Rev.2 (24-Feb-12); Type: SAM v4.0; Serial: TP-1156;
- SEMCAD X Version 14.6.4 (4989)

DASY5, SAM - Phone against Left Head Template, Rev.3 (29-Sept-11)/Left Head Template/Area

Scan - Normal (15mm) (7x17x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.314 mW/g

DASY5, SAM - Phone against Left Head Template, Rev.3 (29-Sept-11)/Left Head Template/5x5x7

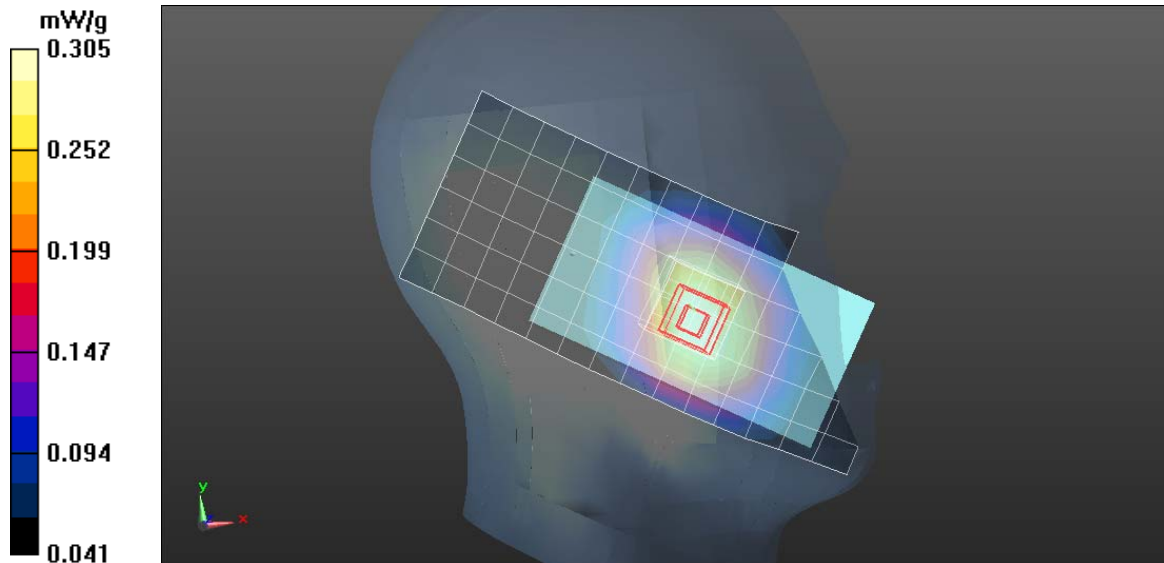
Zoom Scan ($\leq 3\text{GHz}$) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 18.924 V/m; Power Drift = -0.23 dB

Peak SAR (extrapolated) = 0.3680

SAR(1 g) = 0.292 mW/g; SAR(10 g) = 0.225 mW/g

Maximum value of SAR (measured) = 0.305 mW/g



Test Laboratory: Motorola Mobility LTE Band 4 Cheek Touch

DUT: Type: Phone; Serial: LVUEB20013, FCC ID: IHDT56NG9

Procedure Notes: Mode: QPSK, 1 RB High; Battery Model #: INTERNAL Test Config: CHEEK

Communication System: _LTE Band 04; Frequency: 1731.8 MHz; Duty Cycle: 1:1

Medium: 1730 Glycol Head; Medium parameters used: $f = 1731.8 \text{ MHz}$; $\sigma = 1.41 \text{ mho/m}$; $\epsilon_r = 39.2$; $\rho = 1000 \text{ kg/m}^3$

DASY4 Configuration:

- Probe: ES3DV3 - SN3115; ConvF(5.17, 5.17, 5.17); Calibrated: 1/11/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn699; Calibrated: 9/22/2011
- Phantom: R#2 Glycol SAM (extended range), Rev.2 (24-Feb-12); Type: SAM v4.0; Serial: TP-1136;
- SEMCAD X Version 14.6.4 (4989)

DASY5, SAM - Phone against RIGHT head template - Rev.2 (29-Sept-11)/Right Head Template/Area

Scan - Normal (15mm) (7x17x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.754 mW/g

DASY5, SAM - Phone against RIGHT head template - Rev.2 (29-Sept-11)/Right Head

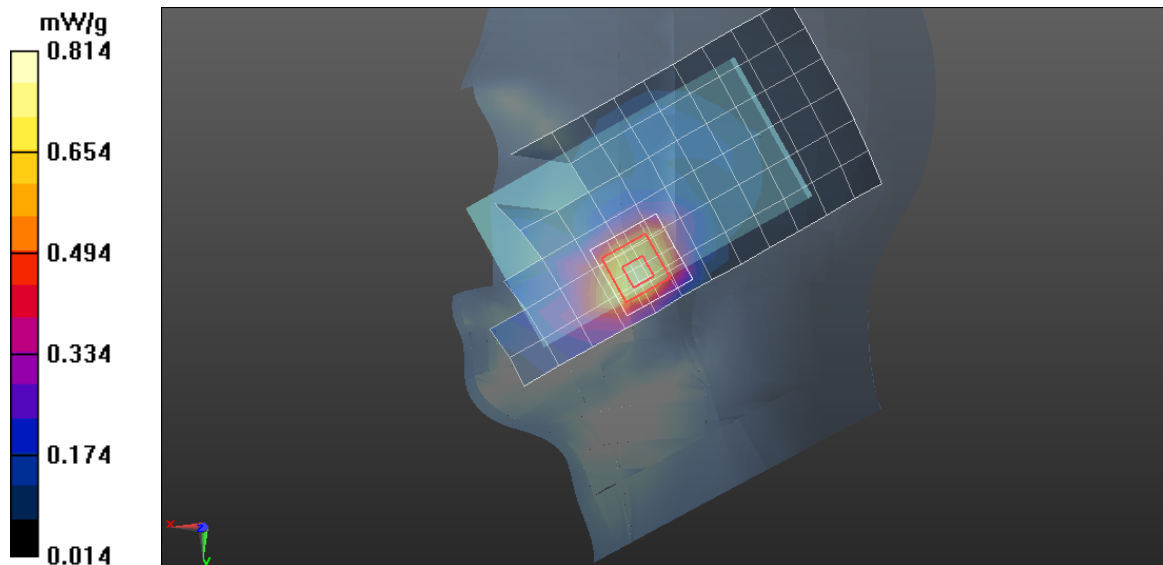
Template/5x5x7 Zoom Scan ($\leq 3\text{GHz}$) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 18.514 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 1.1500

SAR(1 g) = 0.754 mW/g; SAR(10 g) = 0.465 mW/g

Maximum value of SAR (measured) = 0.814 mW/g



Test Laboratory: Motorola Mobility GSM 1900MHz Cheek

DUT: Type: Phone; Serial: LVML2A0064, FCC ID: IHDT56NG9

Procedure Notes: Pwr Step:0 Battery Model #: INTERNAL Test Config: CHEEK

Communication System: _GPRS Class 11; Frequency: 1880 MHz; Duty Cycle: 1:2.75994

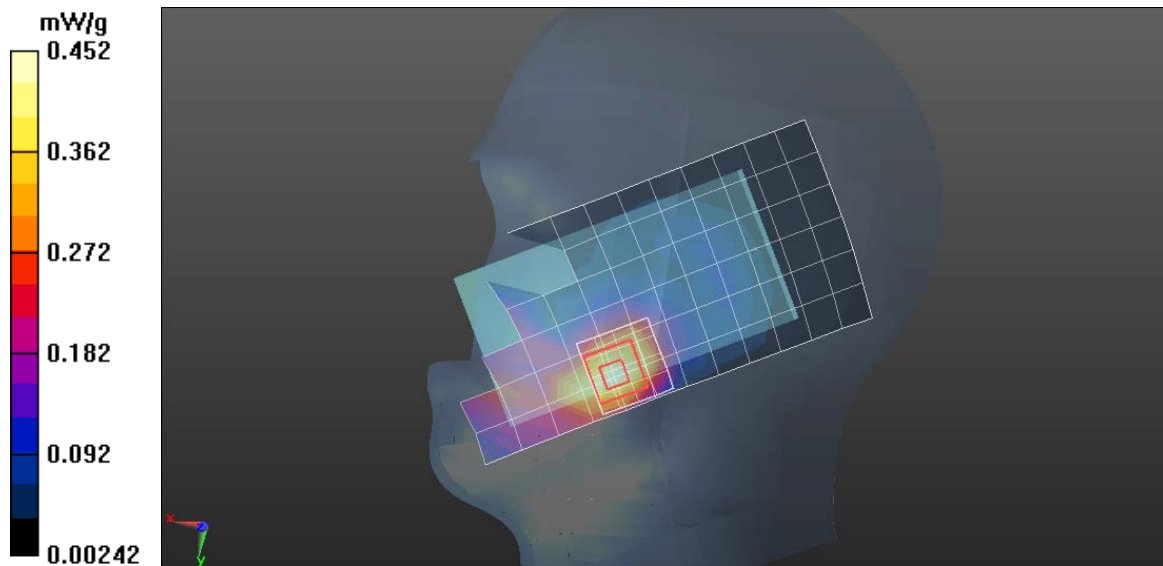
Medium: Regular Glycol Head 1750/1880; Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.45 \text{ mho/m}$; $\epsilon_r = 38.5$; $\rho = 1000 \text{ kg/m}^3$

DASY4 Configuration:

- Probe: ES3DV3 - SN3124; ConvF(5.03, 5.03, 5.03); Calibrated: 8/23/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn376; Calibrated: 8/31/2011
- Phantom: R#1 - Glycol SAM (extended range), Rev.2 (24-Feb-12); Type: SAM v4.0; Serial: TP-1319;
- SEMCAD X Version 14.6.4 (4989)

DASY5, SAM - Phone against RIGHT head template - Rev.2 (29-Sept-11)/Right Head Template/Area Scan - Normal (15mm) (7x17x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (measured) = 0.457 mW/g

DASY5, SAM - Phone against RIGHT head template - Rev.2 (29-Sept-11)/Right Head Template/5x5x7 Zoom Scan ($\leq 3\text{GHz}$) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 14.277 V/m; Power Drift = -0.30 dB
Peak SAR (extrapolated) = 0.6320
SAR(1 g) = 0.423 mW/g; SAR(10 g) = 0.265 mW/g
Maximum value of SAR (measured) = 0.452 mW/g



Test Laboratory: Motorola Mobility WCDMA 1900 Cheek Touch

DUT: Serial: LVML2A0064, FCC ID: IHDT56NG9

Procedure Notes: Pwr Step: ALL UP Battery Model #: INTERNAL DEVICE POSITION: CHEEK TOUCH

Communication System: _WCDMA; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: Regular Glycol Head 1750/1880; Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.47 \text{ mho/m}$; $\epsilon_r = 38.1$; $\rho = 1000 \text{ kg/m}^3$

DASY4 Configuration:

- Probe: ES3DV3 - SN3124; ConvF(5.03, 5.03, 5.03); Calibrated: 8/23/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn376; Calibrated: 8/31/2011
- Phantom: R#1 - Glycol SAM (extended range), Rev.2 (24-Feb-12); Type: SAM v4.0; Serial: TP-1319;
- SEMCAD X Version 14.6.4 (4989)

DASY5, SAM - Phone against RIGHT head template - Rev.2 (29-Sept-11)/Right Head Template/Area

Scan - Normal (15mm) (7x17x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.603 mW/g

DASY5, SAM - Phone against RIGHT head template - Rev.2 (29-Sept-11)/Right Head

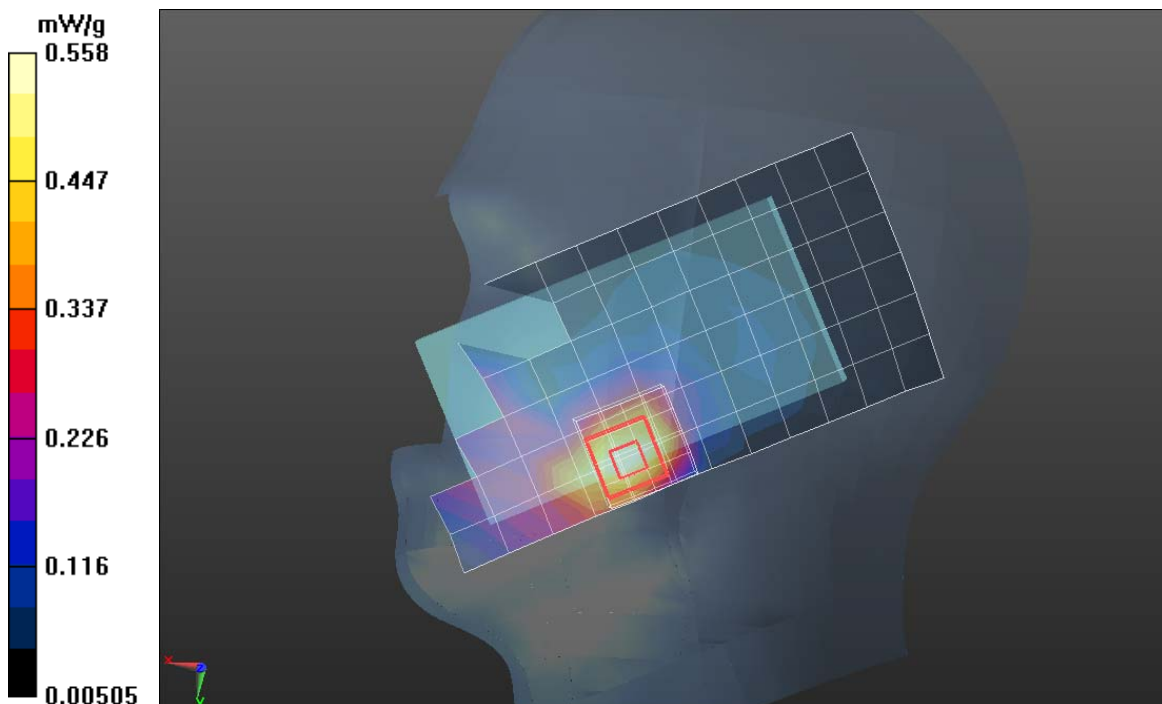
Template/5x5x7 Zoom Scan ($\leq 3\text{GHz}$) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 14.414 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.8070

SAR(1 g) = 0.532 mW/g; SAR(10 g) = 0.331 mW/g

Maximum value of SAR (measured) = 0.558 mW/g



Test Laboratory: Motorola Mobility 2.45 GHz WiFi Cheek Touch

DUT: Type: Phone; Serial: LVULC30006, FCC ID: IHDT56NG9

Procedure Notes: Mode: 802.11b, 1Mbps; Battery Model #: INTERNAL Test Config: Cheek

Communication System: _Wi-Fi 2450MHz; Frequency: 2437 MHz;Duty Cycle: 1:1

Medium: 2450 TRITON Head; Medium parameters used: $f = 2437$ MHz; $\sigma = 1.84$ mho/m; $\epsilon_r = 38.5$; $\rho = 1000$ kg/m³

DASY4 Configuration:

- Probe: EX3DV4 - SN3728; ConvF(6.86, 6.86, 6.86); Calibrated: 4/24/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn440; Calibrated: 5/23/2012
- Phantom: R#3 5G/2450 WiFi SAM (extended range), Rev.2 (24-Feb-12); Type: SAM v4.0; Serial: TP-1153;
- SEMCAD X Version 14.6.4 (4989)

DASY5, SAM - Phone against RIGHT head template - Rev.2 (29-Sept-11)/Right Head Template/Area

Scan - Normal (15mm) (7x17x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 1.301 mW/g

DASY5, SAM - Phone against RIGHT head template - Rev.2 (29-Sept-11)/Right Head

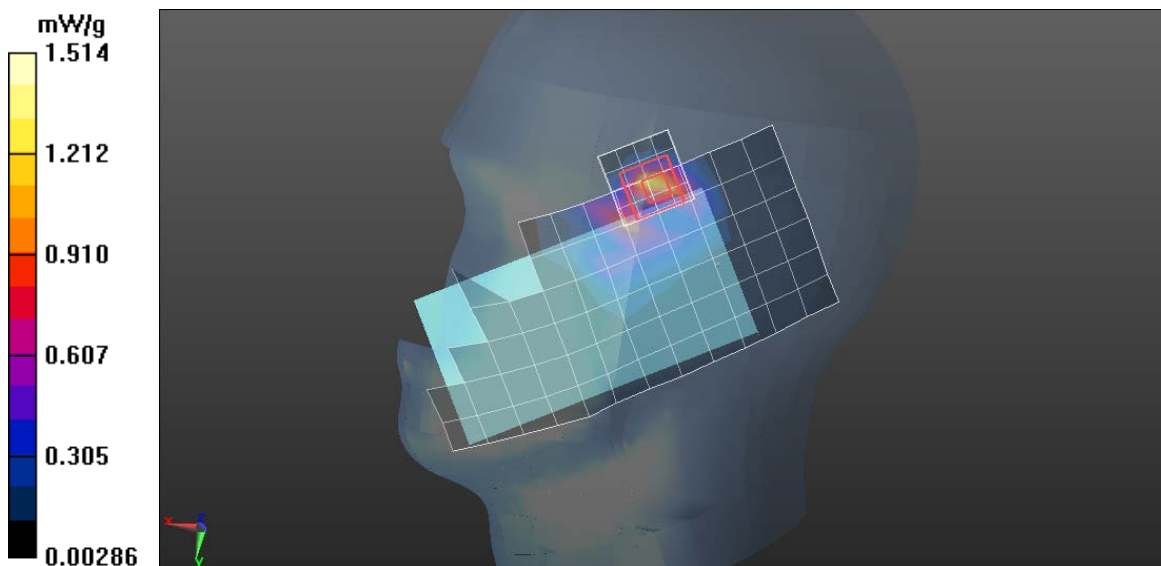
Template/5x5x7 Zoom Scan (≤ 3 GHz) (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 15.055 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 3.6270

SAR(1 g) = 1.4 mW/g; SAR(10 g) = 0.525 mW/g

Maximum value of SAR (measured) = 1.514 mW/g



Test Laboratory: Motorola Mobility 5.2 GHz WiFi Cheek Touch

DUT: Type: Phone; Serial: LVULC30009, FCC ID: IHDT56NG9

Procedure Notes: Mode: 802.11a 6Mbps; Battery Model #: INTERNAL Test Config: CHEEK

Communication System: _WIFI 5-6GHz; Frequency: 5220 MHz; Duty Cycle: 1:1

Medium: 5.2 - 5.6 GHz HEAD; Medium parameters used: $f = 5220 \text{ MHz}$; $\sigma = 4.66 \text{ mho/m}$; $\epsilon_r = 35.5$; $\rho = 1000 \text{ kg/m}^3$

DASY4 Configuration:

- Probe: EX3DV4 - SN3728; ConvF(4.74, 4.74, 4.74); Calibrated: 4/24/2012
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn440; Calibrated: 5/23/2012
- Phantom: R#3 5 GHz HEAD SAM (extended range), Rev.2 (24-Feb-12); Type: SAM v4.0; Serial: TP-1106;
- SEMCAD X Version 14.6.4 (4989)

DASY5 - 5-6GHz, Right Head SAM Template - Rev.3 (4-April-12)/Right Head Template/Area Scan - Normal (10mm) (10x25x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$
Maximum value of SAR (measured) = 2.189 mW/g

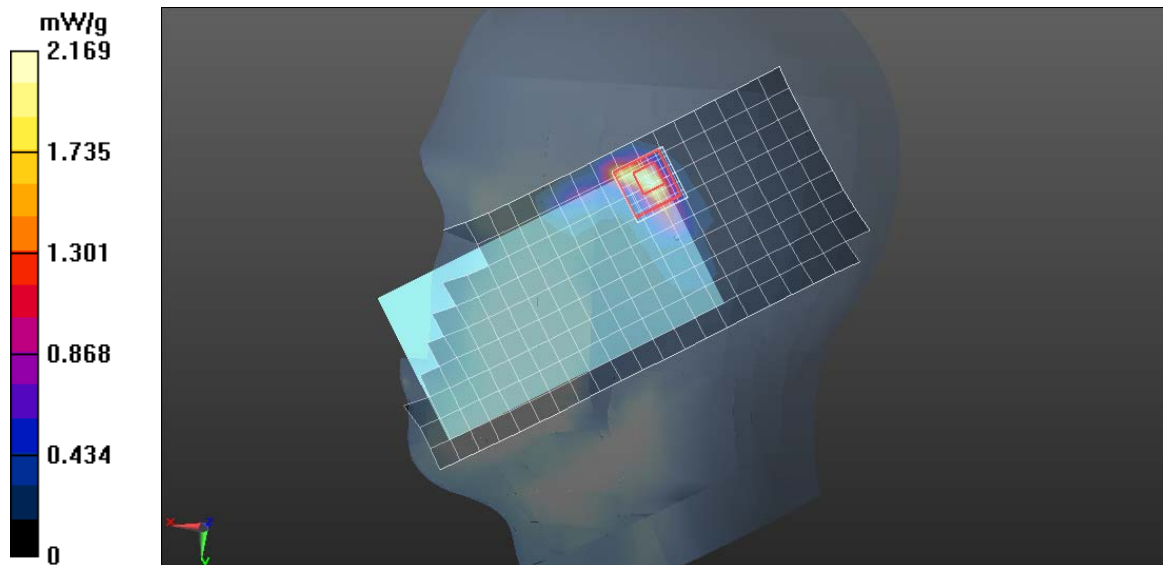
DASY5 - 5-6GHz, Right Head SAM Template - Rev.3 (4-April-12)/Right Head Template/7x7x12 Zoom Scan (5-6GHz) (7x7x6)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 9.382 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 4.6840

SAR(1 g) = 1.07 mW/g; SAR(10 g) = 0.339 mW/g

Maximum value of SAR (measured) = 2.169 mW/g



Test Laboratory: Motorola Mobility 5.8 GHz WiFi Cheek Touch

DUT: Type: Phone; Serial: LVULC30009, FCC ID: IHDT56NG9

Procedure Notes: Mode: 802.11a, 6 Mbps; Battery Model #: INTERNAL Test Config: Cheek Touch

Communication System: _WIFI 5-6GHz; Frequency: 5745 MHz; Duty Cycle: 1:1

Medium: 5.785 GHz HEAD; Medium parameters used: $f = 5745 \text{ MHz}$; $\sigma = 5.2 \text{ mho/m}$; $\epsilon_r = 34.6$; $\rho = 1000 \text{ kg/m}^3$

DASY4 Configuration:

- Probe: EX3DV4 - SN3728; ConvF(4.23, 4.23, 4.23); Calibrated: 4/24/2012
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn440; Calibrated: 5/23/2012
- Phantom: R#3 5 GHz HEAD SAM (extended range), Rev.2 (24-Feb-12); Type: SAM v4.0; Serial: TP-1106;
- SEMCAD X Version 14.6.4 (4989)

DASY5 - 5-6GHz, Right Head SAM Template - Rev.3 (4-April-12)/Right Head Template/Area Scan - Normal (10mm) (10x25x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$
Maximum value of SAR (measured) = 1.455 mW/g

DASY5 - 5-6GHz, Right Head SAM Template - Rev.3 (4-April-12)/Right Head Template/7x7x12

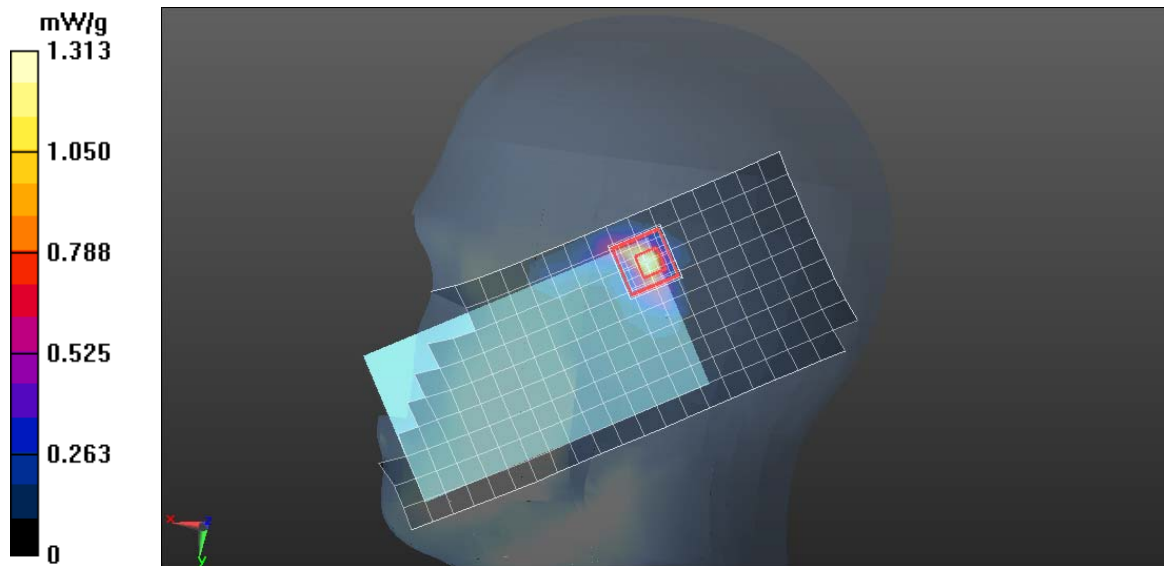
Zoom Scan (5-6GHz) (7x7x6)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 8.209 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 2.8070

SAR(1 g) = 0.609 mW/g; SAR(10 g) = 0.174 mW/g

Maximum value of SAR (measured) = 1.313 mW/g



Test Laboratory: Motorola Mobility LTE Band 17 Tilt

DUT: Type: Phone; Serial: LVUEB20013, FCC ID: IHDT56NG9

Procedure Notes: Mode: QPSK, 1 RB High;; Battery Model #: Internal; Test Cofnig: TILT;

Communication System: _LTE Band 17; Frequency: 710 MHz; Channel: 23790; Duty Cycle: 1:1

Medium: Low Freq Head; Medium parameters used: $f = 710 \text{ MHz}$; $\sigma = 0.87 \text{ mho/m}$; $\epsilon_r = 42$; $\rho = 1000 \text{ kg/m}^3$

DASY4 Configuration:

- Probe: ES3DV3 - SN3115; ConvF(6.05, 6.05, 6.05); Calibrated: 1/11/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn699; Calibrated: 9/22/2011
- Phantom: R#2 Glycol SAM (extended range), Rev.2 (24-Feb-12); Type: SAM v4.0; Serial: TP-1136;
- SEMCAD X Version 14.6.4 (4989)

DASY5, SAM - Phone against RIGHT head template - Rev.2 (29-Sept-11)/Right Head Template/Area

Scan - Normal (15mm) (7x17x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.106 mW/g

DASY5, SAM - Phone against RIGHT head template - Rev.2 (29-Sept-11)/Right Head

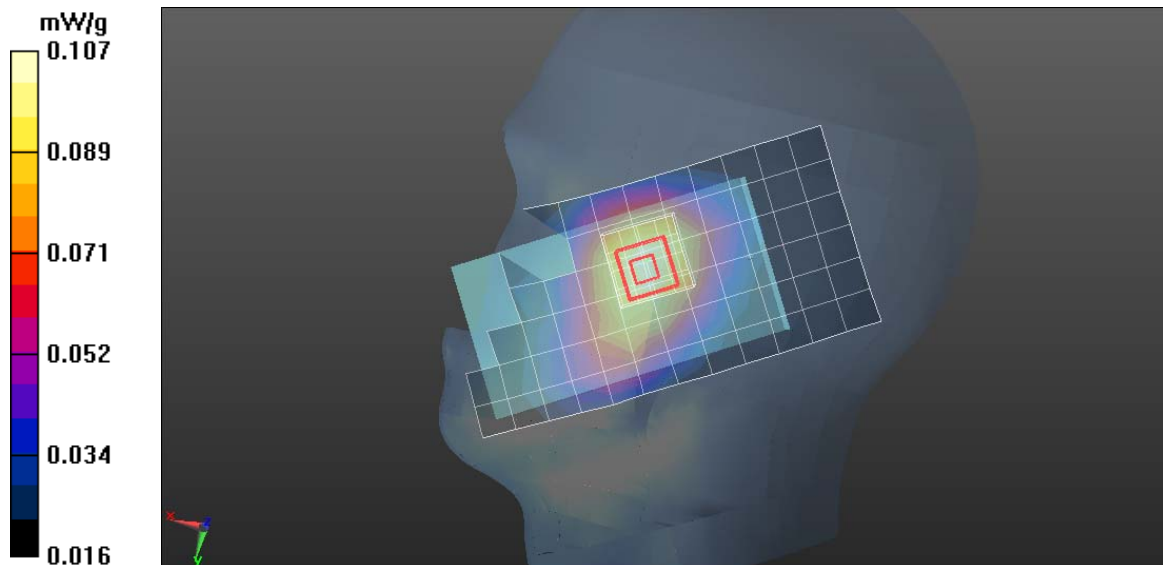
Template/5x5x7 Zoom Scan ($\leq 3\text{GHz}$) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 11.207 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 0.1200

SAR(1 g) = 0.103 mW/g; SAR(10 g) = 0.082 mW/g

Maximum value of SAR (measured) = 0.107 mW/g



Test Laboratory: Motorola Mobility GSM 850 Tilt

DUT: Type: Phone; Serial: LVML2A0064, FCC ID: IHDT56NG9

Procedure Notes: Pwr Step: 5 Battery Model #: INTERNAL DEVICE POSITION: ROTATED

Communication System: _GSM; Frequency: 836.6 MHz; Duty Cycle: 1:8.30042

Medium: Low Freq Head; Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.93 \text{ mho/m}$; $\epsilon_r = 41.1$; $\rho = 1000 \text{ kg/m}^3$

DASY4 Configuration:

- Probe: ES3DV3 - SN3124; ConvF(6.08, 6.08, 6.08); Calibrated: 8/23/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn376; Calibrated: 8/31/2011
- Phantom: R#1 - Sugar SAM (extended range), Rev.2 (24-Feb-12); Type: SAM v4.0; Serial: TP-1156;
- SEMCAD X Version 14.6.4 (4989)

DASY5, SAM - Phone against RIGHT head template - Rev.2 (29-Sept-11)/Right Head Template/Area

Scan - Normal (15mm) (7x17x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.133 mW/g

DASY5, SAM - Phone against RIGHT head template - Rev.2 (29-Sept-11)/Right Head

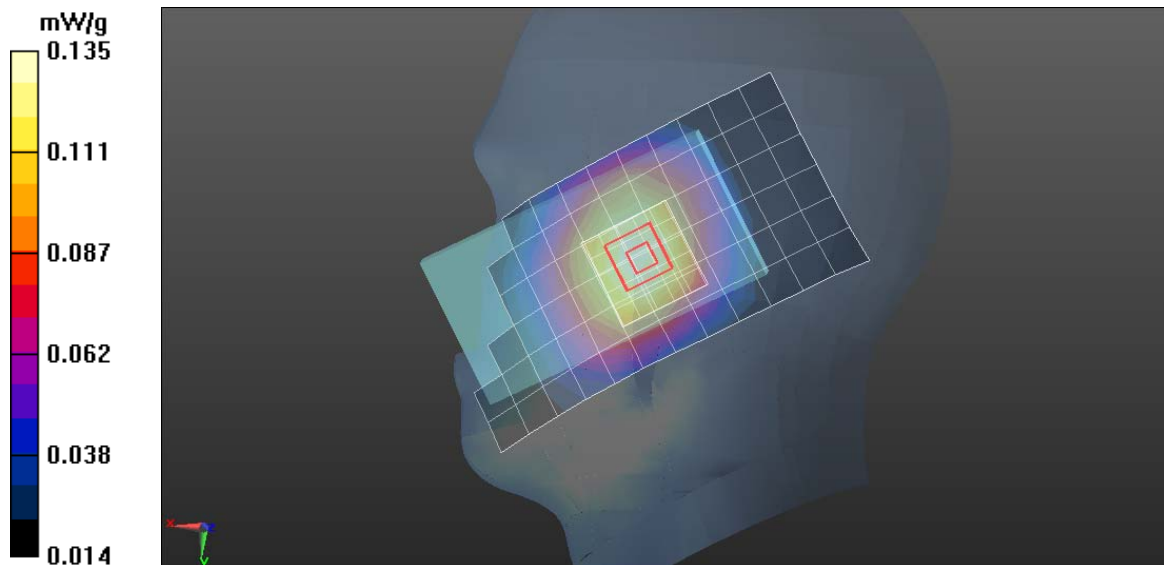
Template/5x5x7 Zoom Scan ($\leq 3\text{GHz}$) (6x6x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 11.799 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.1560

SAR(1 g) = 0.129 mW/g; SAR(10 g) = 0.101 mW/g

Maximum value of SAR (measured) = 0.135 mW/g



Test Laboratory: Motorola Mobility WCDMA 850 Tilt

DUT: Type: Phone; Serial: LVML2A0064, FCC ID: IHDT56NG9

Procedure Notes: Pwr Step: ALL UP Battery Model #: INTERNAL DEVICE POSITION: ROTATED

Communication System: _WCDMA; Frequency: 836 MHz; Duty Cycle: 1:1

Medium: Low Freq Head; Medium parameters used: $f = 836 \text{ MHz}$; $\sigma = 0.93 \text{ mho/m}$; $\epsilon_r = 41.1$; $\rho = 1000 \text{ kg/m}^3$

DASY4 Configuration:

- Probe: ES3DV3 - SN3124; ConvF(6.08, 6.08, 6.08); Calibrated: 8/23/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn376; Calibrated: 8/31/2011
- Phantom: R#1 - Sugar SAM (extended range), Rev.2 (24-Feb-12); Type: SAM v4.0; Serial: TP-1156;
- SEMCAD X Version 14.6.4 (4989)

DASY5, SAM - Phone against RIGHT head template - Rev.2 (29-Sept-11)/Right Head Template/Area

Scan - Normal (15mm) (7x17x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.177 mW/g

DASY5, SAM - Phone against RIGHT head template - Rev.2 (29-Sept-11)/Right Head

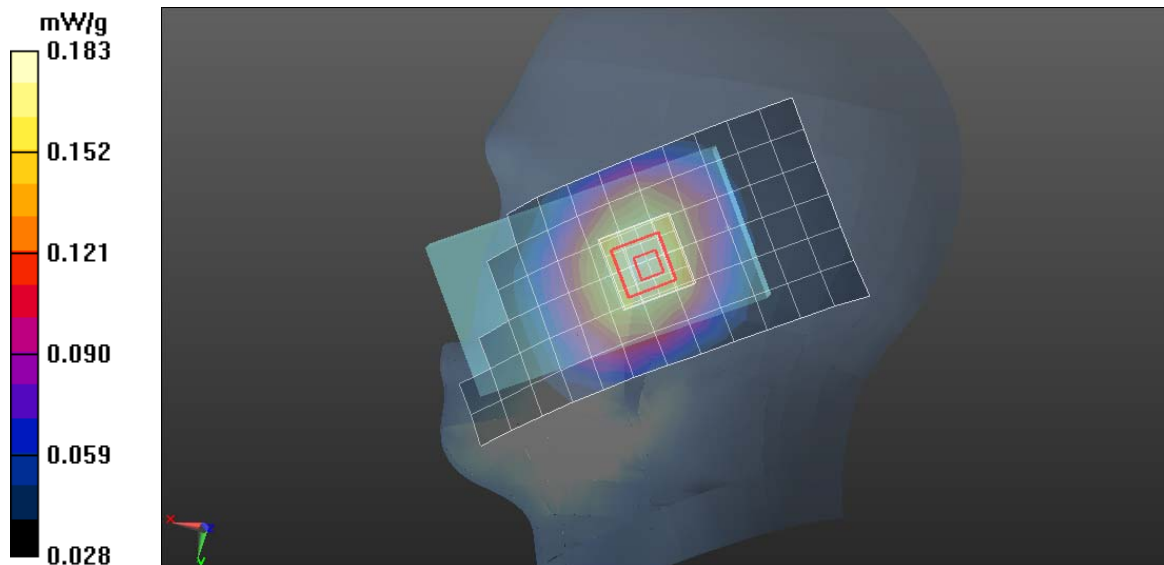
Template/5x5x7 Zoom Scan ($\leq 3\text{GHz}$) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 13.437 V/m ; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 0.2080

SAR(1 g) = 0.173 mW/g ; SAR(10 g) = 0.135 mW/g

Maximum value of SAR (measured) = 0.183 mW/g



Test Laboratory: Motorola Mobility LTE Band 4 Tilt

DUT: Type: Phone; Serial: LVUEB20013, FCC ID: IHDT56NG9

Procedure Notes: Mode: QPSK, 1 RB Low; Battery Model #: INTERNAL Test Config: TILTED

Communication System: _LTE Band 04; Frequency: 1732.5 MHz; Channel: 20175; Duty Cycle: 1:1

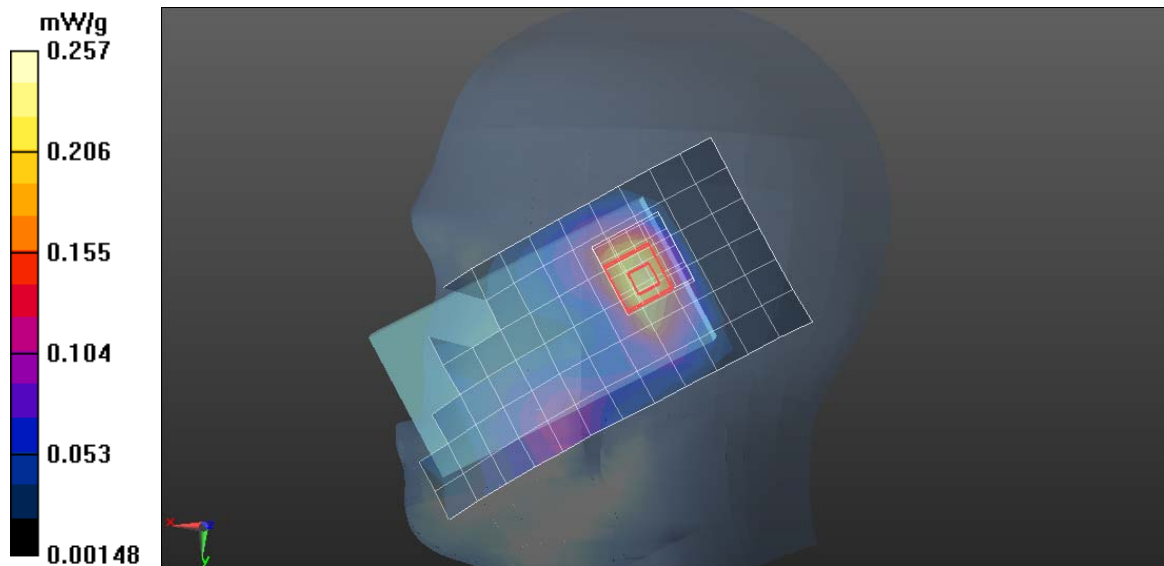
Medium: 1730 Glycol Head; Medium parameters used: $f = 1730$ MHz; $\sigma = 1.41$ mho/m; $\epsilon_r = 39.2$; $\rho = 1000$ kg/m³

DASY4 Configuration:

- Probe: ES3DV3 - SN3115; ConvF(5.17, 5.17, 5.17); Calibrated: 1/11/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn699; Calibrated: 9/22/2011
- Phantom: R#2 Glycol SAM (extended range), Rev.2 (24-Feb-12); Type: SAM v4.0; Serial: TP-1136;
- SEMCAD X Version 14.6.4 (4989)

DASY5, SAM - Phone against RIGHT head template - Rev.2 (29-Sept-11)/Right Head Template/Area Scan - Normal (15mm) (7x17x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.218 mW/g

DASY5, SAM - Phone against RIGHT head template - Rev.2 (29-Sept-11)/Right Head Template/5x5x7 Zoom Scan (<=3GHz) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 13.588 V/m; Power Drift = -0.11 dB
Peak SAR (extrapolated) = 0.3920
SAR(1 g) = 0.237 mW/g; SAR(10 g) = 0.137 mW/g
Maximum value of SAR (measured) = 0.257 mW/g



Test Laboratory: Motorola Mobility GSM 1900 Tilt

DUT: Type: Phone; Serial: LVML2A0064, FCC ID: IHDT56NG9

Procedure Notes: Pwr Step: 0 Battery Model #: INTERNAL DEVICE POSITION: ROTATED

Communication System: _GSM; Frequency: 1880 MHz; Duty Cycle: 1:8.30042

Medium: Regular Glycol Head 1750/1880; Medium parameters used: $f = 1880$ MHz; $\sigma = 1.47$ mho/m; $\epsilon_r = 38.1$; $\rho = 1000$ kg/m³

DASY4 Configuration:

- Probe: ES3DV3 - SN3124; ConvF(5.03, 5.03, 5.03); Calibrated: 8/23/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn376; Calibrated: 8/31/2011
- Phantom: R#1 - Glycol SAM (extended range), Rev.2 (24-Feb-12); Type: SAM v4.0; Serial: TP-1319;
- SEMCAD X Version 14.6.4 (4989)

DASY5, SAM - Phone against Left Head Template, Rev.3 (29-Sept-11)/Left Head Template/Area

Scan - Normal (15mm) (7x17x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.105 mW/g

DASY5, SAM - Phone against Left Head Template, Rev.3 (29-Sept-11)/Left Head Template/5x5x7

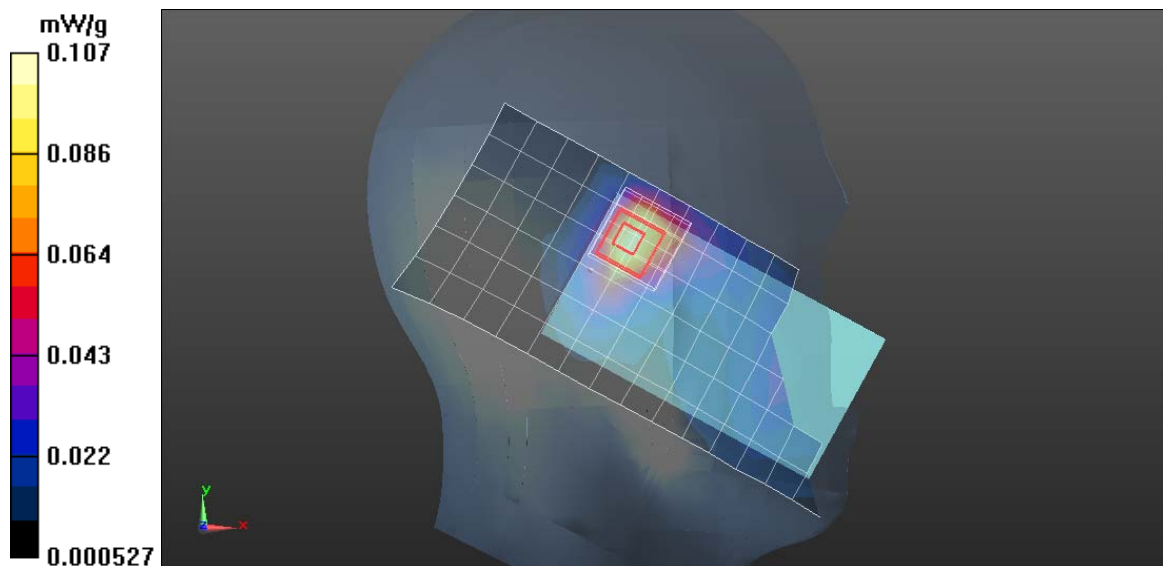
Zoom Scan (≤ 3 GHz) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.088 V/m; Power Drift = 0.30 dB

Peak SAR (extrapolated) = 0.1630

SAR(1 g) = 0.102 mW/g; SAR(10 g) = 0.059 mW/g

Maximum value of SAR (measured) = 0.107 mW/g



Test Laboratory: Motorola Mobility WCDMA 1900 Tilt

DUT: Type: Phone; Serial: LVML2A0064, FCC ID: IHDT56NG9

Procedure Notes: Pwr Step: ALL UP Battery Model #: INTERNAL DEVICE POSITION: ROTATED

Communication System: _WCDMA; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: Regular Glycol Head 1750/1880; Medium parameters used: $f = 1880$ MHz; $\sigma = 1.47$ mho/m; $\epsilon_r = 38.1$; $\rho = 1000$ kg/m³

DASY4 Configuration:

- Probe: ES3DV3 - SN3124; ConvF(5.03, 5.03, 5.03); Calibrated: 8/23/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn376; Calibrated: 8/31/2011
- Phantom: R#1 - Glycol SAM (extended range), Rev.2 (24-Feb-12); Type: SAM v4.0; Serial: TP-1319;
- SEMCAD X Version 14.6.4 (4989)

DASY5, SAM - Phone against Left Head Template, Rev.3 (29-Sept-11)/Left Head Template/Area

Scan - Normal (15mm) (7x17x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.182 mW/g

DASY5, SAM - Phone against Left Head Template, Rev.3 (29-Sept-11)/Left Head Template/5x5x7

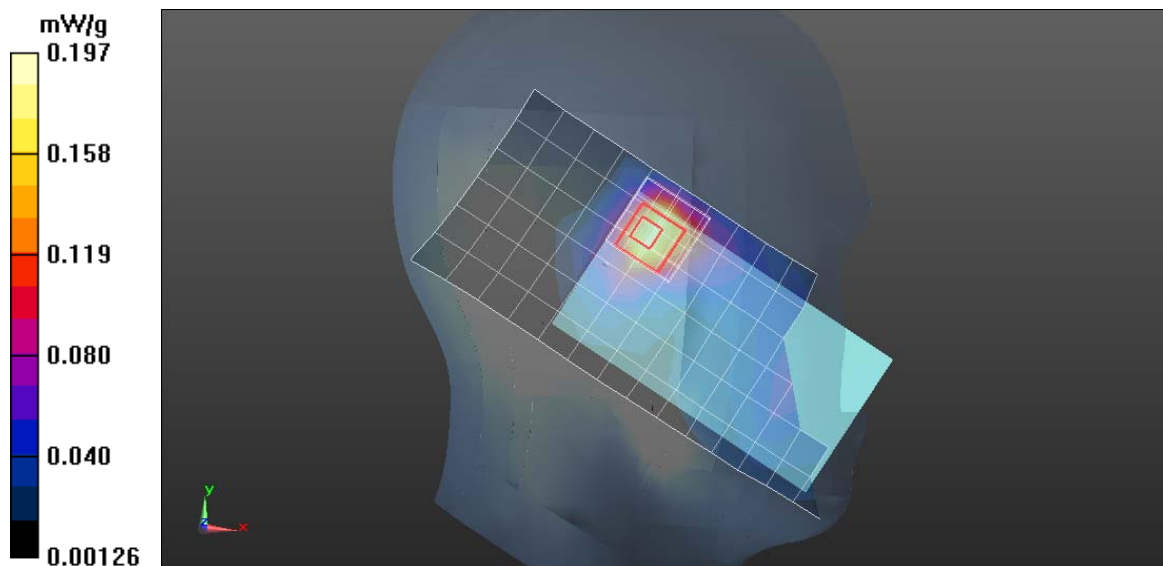
Zoom Scan (≤ 3 GHz) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.927 V/m; Power Drift = 0.28 dB

Peak SAR (extrapolated) = 0.3110

SAR(1 g) = 0.194 mW/g; SAR(10 g) = 0.112 mW/g

Maximum value of SAR (measured) = 0.197 mW/g



Test Laboratory: Motorola Mobility 2.45 GHz WiFi Tilt

DUT: Type: Phone; Serial: LVULC30006, FCC ID: IHDT56NG9

Procedure Notes: Mode: 802.11b, 1Mbps; Battery Model #: INTERNAL; Test Config: Tilt

Communication System: _Wi-Fi 2450MHz; Frequency: 2437 MHz;Duty Cycle: 1:1

Medium: 2450 TRITON Head; Medium parameters used: $f = 2437$ MHz; $\sigma = 1.84$ mho/m; $\epsilon_r = 38.5$; $\rho = 1000$ kg/m³

DASY4 Configuration:

- Probe: EX3DV4 - SN3728; ConvF(6.86, 6.86, 6.86); Calibrated: 4/24/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn440; Calibrated: 5/23/2012
- Phantom: R#3 5G/2450 WiFi SAM (extended range), Rev.2 (24-Feb-12); Type: SAM v4.0; Serial: TP-1153;
- SEMCAD X Version 14.6.4 (4989)

DASY5, SAM - Phone against RIGHT head template - Rev.2 (29-Sept-11)/Right Head Template/Area

Scan - Normal (15mm) (7x17x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.546 mW/g

DASY5, SAM - Phone against RIGHT head template - Rev.2 (29-Sept-11)/Right Head

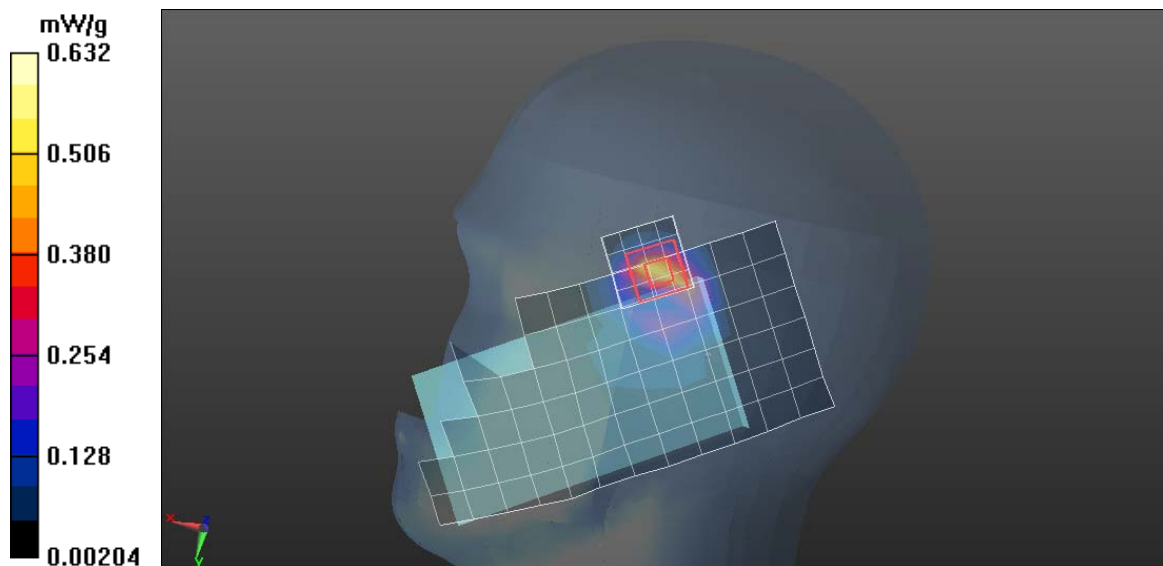
Template/5x5x7 Zoom Scan (≤ 3 GHz) (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 11.574 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 1.3680

SAR(1 g) = 0.568 mW/g; SAR(10 g) = 0.223 mW/g

Maximum value of SAR (measured) = 0.632 mW/g



Test Laboratory: Motorola Mobility 5.2 GHz WiFi Tilt

DUT: Type: Phone; Serial: LVULC30009, FCC ID: IHDT56NG9

Procedure Notes: Mode: 802.11a, 6Mbps; Battery Model #: INTERNAL Test Config: TILTED

Communication System: _WIFI 5-6GHz; Frequency: 5220 MHz; Duty Cycle: 1:1

Medium: 5.2 - 5.6 GHz HEAD; Medium parameters used: $f = 5220 \text{ MHz}$; $\sigma = 4.66 \text{ mho/m}$; $\epsilon_r = 35.5$; $\rho = 1000 \text{ kg/m}^3$

DASY4 Configuration:

- Probe: EX3DV4 - SN3728; ConvF(4.74, 4.74, 4.74); Calibrated: 4/24/2012
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn440; Calibrated: 5/23/2012
- Phantom: R#3 5 GHz HEAD SAM (extended range), Rev.2 (24-Feb-12); Type: SAM v4.0; Serial: TP-1106;
- SEMCAD X Version 14.6.4 (4989)

DASY5 - 5-6GHz, Right Head SAM Template - Rev.3 (4-April-12)/Right Head Template/Area Scan - Normal (10mm) (10x25x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$
Maximum value of SAR (measured) = 1.591 mW/g

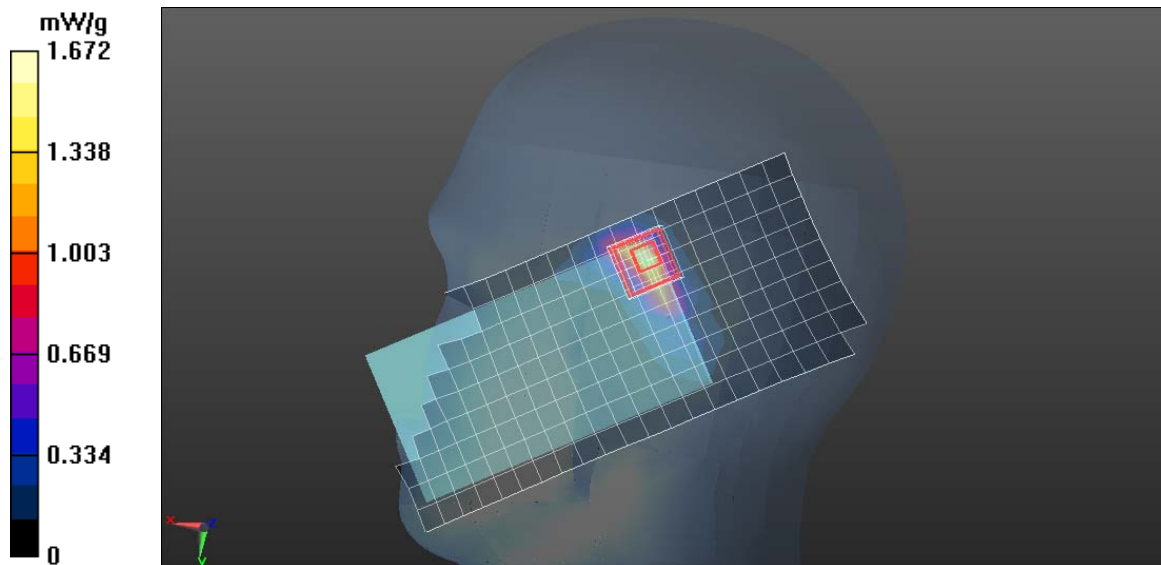
DASY5 - 5-6GHz, Right Head SAM Template - Rev.3 (4-April-12)/Right Head Template/7x7x12 Zoom Scan (5-6GHz) (7x7x6)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 8.758 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 3.4950

SAR(1 g) = 0.841 mW/g; SAR(10 g) = 0.266 mW/g

Maximum value of SAR (measured) = 1.672 mW/g



Test Laboratory: Motorola Mobility 5.8 GHz WiFi Tilt

DUT: Type: Phone; Serial: LVULC30009, FCC ID: IHDT56NG9

Procedure Notes: Mode: 802.11a, 6Mbps; Battery Model #: INTERNAL; Test Config: TILTED

Communication System: _WIFI 5-6GHz; Frequency: 5745 MHz; Channel: 149; Duty Cycle: 1:1

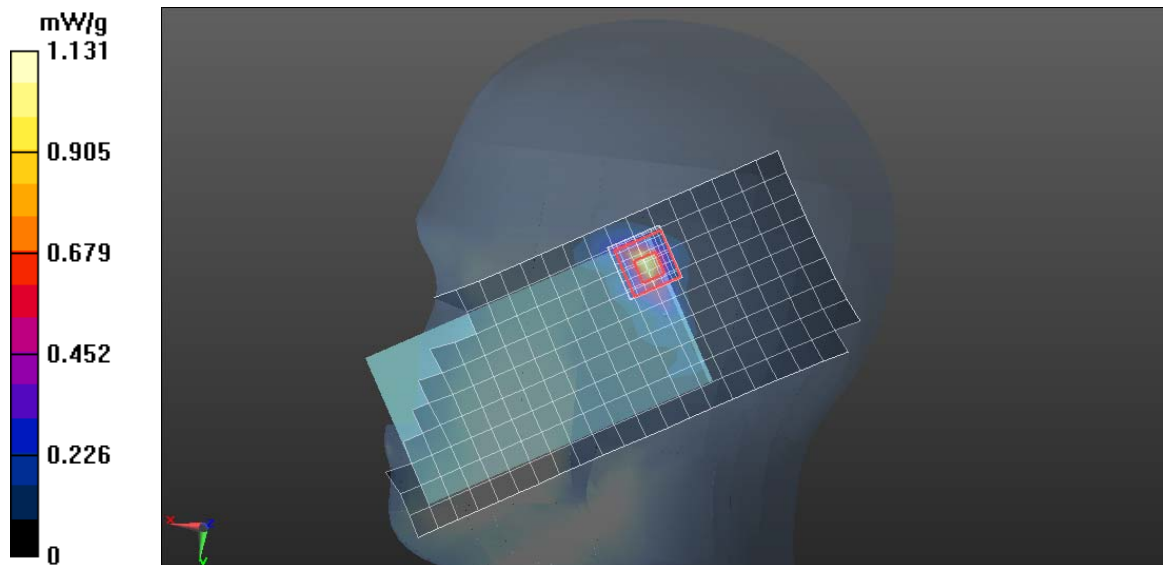
Medium: 5.785 GHz HEAD; Medium parameters used: $f = 5745 \text{ MHz}$; $\sigma = 5.2 \text{ mho/m}$; $\epsilon_r = 34.6$; $\rho = 1000 \text{ kg/m}^3$

DASY4 Configuration:

- Probe: EX3DV4 - SN3728; ConvF(4.23, 4.23, 4.23); Calibrated: 4/24/2012
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn440; Calibrated: 5/23/2012
- Phantom: R#3 5 GHz HEAD SAM (extended range), Rev.2 (24-Feb-12); Type: SAM v4.0; Serial: TP-1106;
- SEMCAD X Version 14.6.4 (4989)

DASY5 - 5-6GHz, Right Head SAM Template - Rev.3 (4-April-12)/Right Head Template/Area Scan - Normal (10mm) (10x25x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$
Maximum value of SAR (measured) = 1.077 mW/g

DASY5 - 5-6GHz, Right Head SAM Template - Rev.3 (4-April-12)/Right Head Template/7x7x12 Zoom Scan (5-6GHz) (7x7x6)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$
Reference Value = 7.745 V/m; Power Drift = -0.14 dB
Peak SAR (extrapolated) = 2.3150
SAR(1 g) = 0.513 mW/g; SAR(10 g) = 0.138 mW/g
Maximum value of SAR (measured) = 1.131 mW/g



Appendix 3

SAR distribution plots for Body Worn Test Results

Test Laboratory: Motorola Mobility LTE Band 17 Body Worn

DUT: Type: Tablet; Serial: LVUEB20013. FCC ID: IHDT56NG9

Procedure Notes: Mode: QPSK, 1 RB High; Battery Model #: INTERNAL Test Config: front 25mm

Communication System: _LTE Band 17; Frequency: 710 MHz; Duty Cycle: 1:1

Medium: Low Freq Body 710 GLYCOL; Medium parameters used: $f = 710 \text{ MHz}$; $\sigma = 0.93 \text{ mho/m}$; $\epsilon_r = 55.6$; $\rho = 1000 \text{ kg/m}^3$

DASY4 Configuration:

- Probe: ES3DV3 - SN3115; ConvF(5.97, 5.97, 5.97); Calibrated: 1/11/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn699; Calibrated: 9/22/2011
- Phantom: R#2 Triple Flat Phantom 5.1C (Rev.4); Type: QD 000 P51 CA; Serial: n/a;
- SEMCAD X Version 14.6.4 (4989)

DASY5, Triple Flat Phone Template - Rev.5 (6-April-12)/Triple Flat Phone Template/Area Scan -

Normal Body (15mm) (14x8x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.223 mW/g

DASY5, Triple Flat Phone Template - Rev.5 (6-April-12)/Triple Flat Phone Template/5x5x7 Zoom

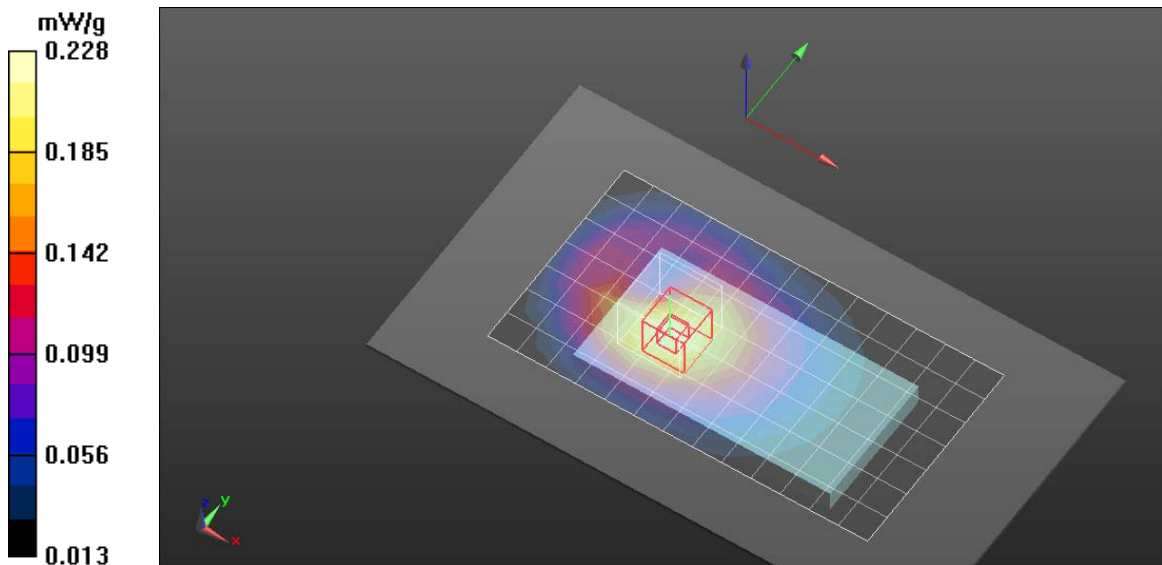
Scan ($\leq 3\text{GHz}$) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 14.463 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.2870

SAR(1 g) = 0.214 mW/g; SAR(10 g) = 0.153 mW/g

Maximum value of SAR (measured) = 0.228 mW/g



Test Laboratory: Motorola Mobility GSM 850 Body Worn

DUT: Type: Phone; Serial: LVML2A0064, FCC ID: IHDT56NG9

Procedure Notes: Pwr Step: 05 Battery Model #: INTERNAL Test Congi: FRONT of Phone 25mm Separation

Communication System: _GPRS Class 10; Frequency: 836.6 MHz; Duty Cycle: 1:4.14954

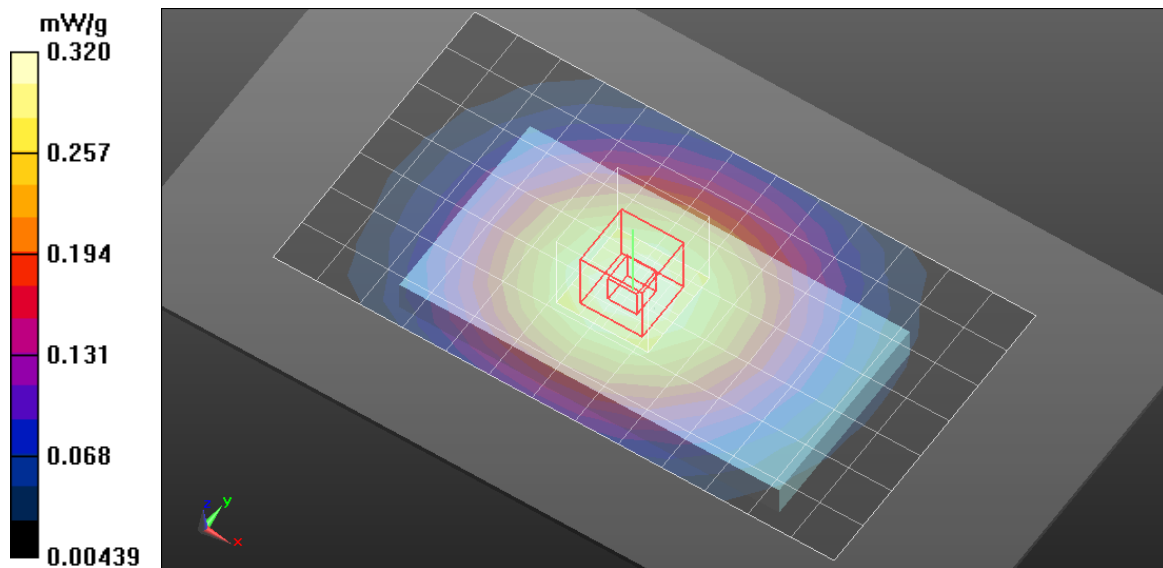
Medium: Low Freq Body; Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.97 \text{ mho/m}$; $\epsilon_r = 53.1$; $\rho = 1000 \text{ kg/m}^3$

DASY4 Configuration:

- Probe: ES3DV3 - SN3124; ConvF(6.04, 6.04, 6.04); Calibrated: 8/23/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn376; Calibrated: 8/31/2011
- Phantom: R#-1, Triple Flat Phantom 5.1C (Rev.4); Type: QD 000 P51 CA; Serial: n/a;
- SEMCAD X Version 14.6.4 (4989)

DASY5, Triple Flat Phone Template - Rev.5 (6-April-12)/Triple Flat Phone Template/Area Scan - Normal Body (15mm) (14x8x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (measured) = 0.320 mW/g

DASY5, Triple Flat Phone Template - Rev.5 (6-April-12)/Triple Flat Phone Template/5x5x7 Zoom Scan ($\leq 3\text{GHz}$) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 18.192 V/m ; Power Drift = -0.11 dB
Peak SAR (extrapolated) = 0.3960
SAR(1 g) = 0.305 mW/g ; SAR(10 g) = 0.230 mW/g



Test Laboratory: Motorola Mobility WCDMA 850 MHz Body

DUT: Type: Phone; Serial: LVML2A0064, FCC ID: IHDT56NG9

Procedure Notes: Pwr Step: ALWAYS UP Battery Model #: INTERNAL Test Config = FRONT OF PHONE 25MM Separation

Communication System: _WCDMA; Frequency: 836 MHz; Duty Cycle: 1:1

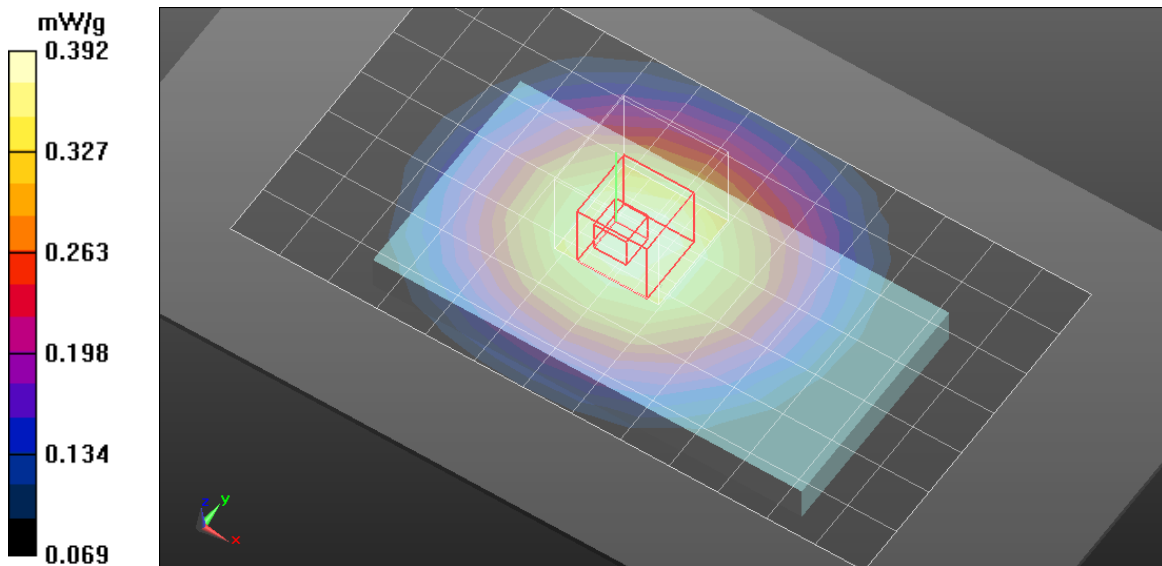
Medium: Low Freq Body; Medium parameters used: $f = 836 \text{ MHz}$; $\sigma = 0.97 \text{ mho/m}$; $\epsilon_r = 53.1$; $\rho = 1000 \text{ kg/m}^3$

DASY4 Configuration:

- Probe: ES3DV3 - SN3124; ConvF(6.04, 6.04, 6.04); Calibrated: 8/23/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn376; Calibrated: 8/31/2011
- Phantom: R#-1, Triple Flat Phantom 5.1C (Rev.4); Type: QD 000 P51 CA; Serial: n/a;
- SEMCAD X Version 14.6.4 (4989)

DASY5, Triple Flat Phone Template - Rev.5 (6-April-12)/Triple Flat Phone Template/Area Scan - Normal Body (15mm) (14x8x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (measured) = 0.395 mW/g

DASY5, Triple Flat Phone Template - Rev.5 (6-April-12)/Triple Flat Phone Template/5x5x7 Zoom Scan ($\leq 3\text{GHz}$) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 20.335 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 0.4850
SAR(1 g) = 0.374 mW/g; SAR(10 g) = 0.283 mW/g
Maximum value of SAR (measured) = 0.392 mW/g



Test Laboratory: Motorola Mobility LTE Band 4 Body Worn

DUT: Type: Phone; Serial: LVUEB20013, FCC ID: IHDT56NG9

Procedure Notes: Pwr Step: N/A Battery Model #: Internal Test Config: Back of Phone 25mm separation

Mode: QPSK 1RB @ High End

Communication System: _LTE Band 04; Frequency: 1731.8 MHz; Duty Cycle: 1:1

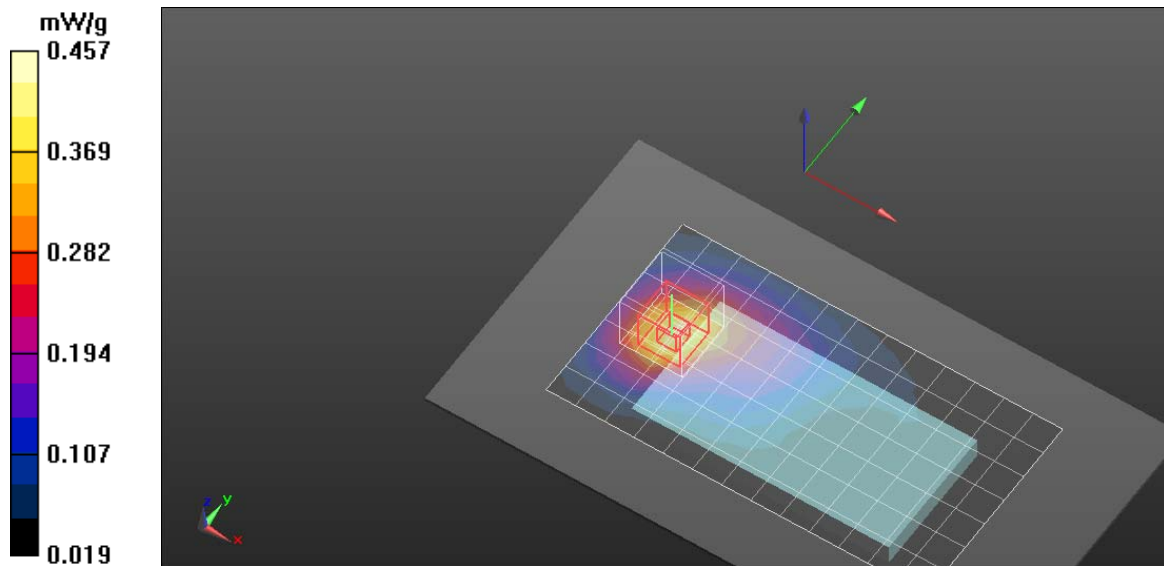
Medium: 1730 Glycol Body; Medium parameters used: $f = 1731.8 \text{ MHz}$; $\sigma = 1.51 \text{ mho/m}$; $\epsilon_r = 51.5$; $\rho = 1000 \text{ kg/m}^3$

DASY4 Configuration:

- Probe: ES3DV3 - SN3115; ConvF(4.72, 4.72, 4.72); Calibrated: 1/11/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn699; Calibrated: 9/22/2011
- Phantom: R#2 Triple Flat Phantom 5.1C (Rev.4); Type: QD 000 P51 CA; Serial: n/a;
- SEMCAD X Version 14.6.4 (4989)

DASY5, Triple Flat Phone Template - Rev.5 (6-April-12)/Triple Flat Phone Template/Area Scan - Normal Body (15mm) (14x8x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (measured) = 0.445 mW/g

DASY5, Triple Flat Phone Template - Rev.5 (6-April-12)/Triple Flat Phone Template/5x5x7 Zoom Scan ($\leq 3\text{GHz}$) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 17.046 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 0.6350
SAR(1 g) = 0.423 mW/g; SAR(10 g) = 0.269 mW/g
Maximum value of SAR (measured) = 0.457 mW/g



Test Laboratory: Motorola Mobility GSM 1900MHz Body

DUT: Type: PHONE; Serial: LVML2A0064, FCC ID: IHDT56NG9

Procedure Notes: Pwr Step: 0 Battery Model #:INTERNAL Test Config: FRONT OF PHONE 25MM FROM PHANTOM

Communication System: _GPRS Class 11; Frequency: 1880 MHz; Duty Cycle: 1:2.75994

Medium: Regular Glycol Body 1750/1880; Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.58 \text{ mho/m}$; $\epsilon_r = 50.7$; $\rho = 1000 \text{ kg/m}^3$

DASY4 Configuration:

- Probe: ES3DV3 - SN3124; ConvF(4.69, 4.69, 4.69); Calibrated: 8/23/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn376; Calibrated: 8/31/2011
- Phantom: R#-1, Triple Flat Phantom 5.1C (Rev.4); Type: QD 000 P51 CA; Serial: n/a;
- SEMCAD X Version 14.6.4 (4989)

DASY5, Triple Flat Phone Template - Rev.5 (6-April-12)/Triple Flat Phone Template/Area Scan - Normal Body (15mm) (14x8x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (measured) = 0.407 mW/g

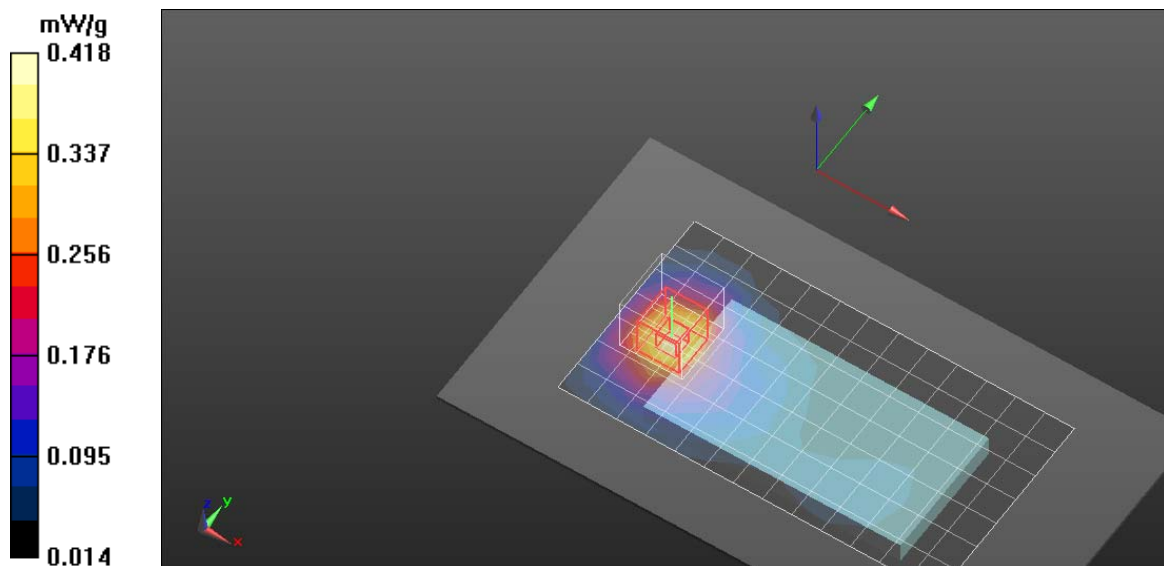
DASY5, Triple Flat Phone Template - Rev.5 (6-April-12)/Triple Flat Phone Template/5x5x7 Zoom Scan ($\leq 3\text{GHz}$) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 16.572 V/m ; Power Drift = -0.25 dB

Peak SAR (extrapolated) = 0.6080

SAR(1 g) = 0.385 mW/g ; SAR(10 g) = 0.237 mW/g

Maximum value of SAR (measured) = 0.418 mW/g



Test Laboratory: Motorola Mobility WCDMA 1900MHz Body

DUT: Type: PHONE; Serial: LVML2A0064, FCC ID: IHDT56NG9

Procedure Notes: Pwr Step: ALL UP Battery Model #: INTERNAL Test Config: BACK OF PHONE 25MM Separation

Communication System: _WCDMA; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: Regular Glycol Body 1750/1880; Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.58 \text{ mho/m}$; $\epsilon_r = 50.7$; $\rho = 1000 \text{ kg/m}^3$

DASY4 Configuration:

- Probe: ES3DV3 - SN3124; ConvF(4.69, 4.69, 4.69); Calibrated: 8/23/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn376; Calibrated: 8/31/2011
- Phantom: R#-1, Triple Flat Phantom 5.1C (Rev.4); Type: QD 000 P51 CA; Serial: n/a;
- SEMCAD X Version 14.6.4 (4989)

DASY5, Triple Flat Phone Template - Rev.5 (6-April-12)/Triple Flat Phone Template/Area Scan - Normal Body (15mm) (14x8x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (measured) = 0.473 mW/g

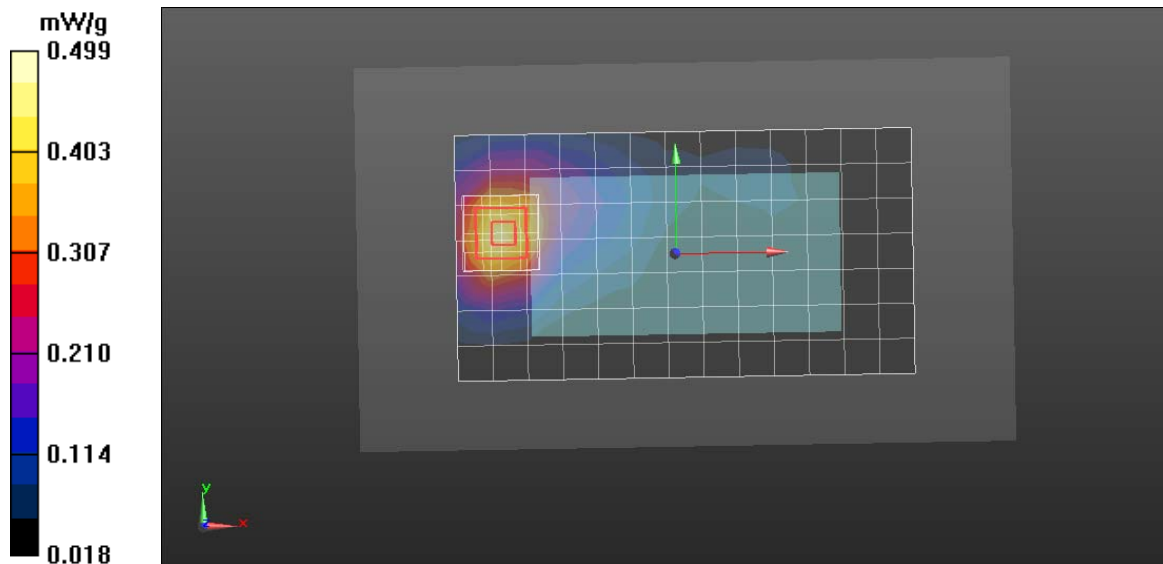
DASY5, Triple Flat Phone Template - Rev.5 (6-April-12)/Triple Flat Phone Template/5x5x7 Zoom Scan ($\leq 3\text{GHz}$) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 17.065 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.7200

SAR(1 g) = 0.460 mW/g; SAR(10 g) = 0.284 mW/g

Maximum value of SAR (measured) = 0.499 mW/g



Test Laboratory: Motorola Mobility 2.45 GHz WiFi Body Worn

DUT: Type: Phone; Serial: LVULC30006

Procedure Notes: Mode: 802.11b, 1Mbps; Battery Model #: INTERNAL Test Config: FRONT OF PHONE 25MM FROM PHANTOM

Communication System: _Wi-Fi 2450MHz; Frequency: 2437 MHz; Duty Cycle: 1:1

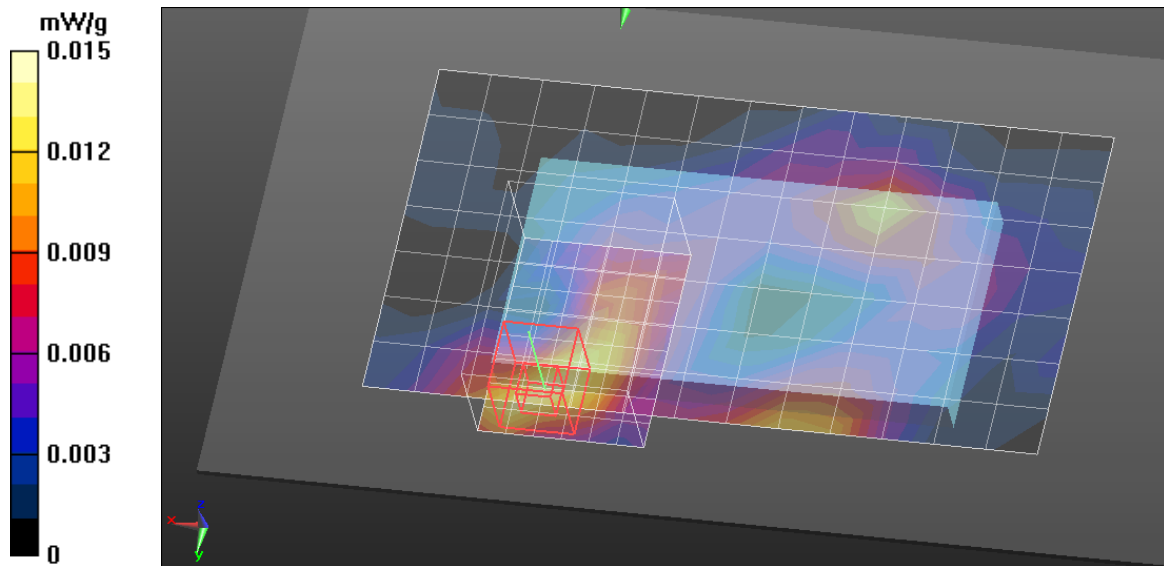
Medium: 2450 Triton Body; Medium parameters used: $f = 2437 \text{ MHz}$; $\sigma = 1.94 \text{ mho/m}$; $\epsilon_r = 51.9$; $\rho = 1000 \text{ kg/m}^3$

DASY4 Configuration:

- Probe: EX3DV4 - SN3728; ConvF(6.84, 6.84, 6.84); Calibrated: 4/24/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn440; Calibrated: 5/23/2012
- Phantom: R#-3, Triple Flat Phantom 5.1C (Rev.4); Type: QD 000 P51 CA; Serial: n/a;
- SEMCAD X Version 14.6.4 (4989)

DASY5, Triple Flat Phone Template - Rev.5 (6-April-12)/Triple Flat Phone Template/Area Scan - Normal Body (15mm) (14x8x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (measured) = 0.013 mW/g

DASY5, Triple Flat Phone Template - Rev.5 (6-April-12)/Triple Flat Phone Template/5x5x7 Zoom Scan ($\leq 3\text{GHz}$) (7x9x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 2.147 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 0.0260
SAR(1 g) = 0.013 mW/g; SAR(10 g) = 0.00654 mW/g
Maximum value of SAR (measured) = 0.015 mW/g



Test Laboratory: Motorola Mobility 5.2 GHz WiFi Body Worn

DUT: Type: Phone; Serial: LVULC30009, FCC ID: IHDT56NG9

Procedure Notes: Mode: 802.11a, 6Mbps; Battery Model #: INTERNAL

Test Config: Back of Phone 25mm from Phantom

Communication System: _WIFI 5-6GHz; Frequency: 5220 MHz; Duty Cycle: 1:1

Medium: 5.2 - 5.6 GHz BODY; Medium parameters used: $f = 5220 \text{ MHz}$; $\sigma = 5.33 \text{ mho/m}$; $\epsilon_r = 46.6$; $\rho = 1000 \text{ kg/m}^3$

DASY4 Configuration:

- Probe: EX3DV4 - SN3728; ConvF(4.22, 4.22, 4.22); Calibrated: 4/24/2012
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn440; Calibrated: 5/23/2012
- Phantom: R#-3, Triple Flat Phantom 5.1C (Rev.4); Type: QD 000 P51 CA; Serial: n/a;
- SEMCAD X Version 14.6.4 (4989)

DASY5 - 5-6GHz, TRIPLE Flat Phone Template, Rev.2 (4-April-12)/TRIPLE Flat Phone Against Flat Section/Phone Area Scan - Normal Body (10mm) (17x10x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$
Maximum value of SAR (measured) = 0.237 mW/g

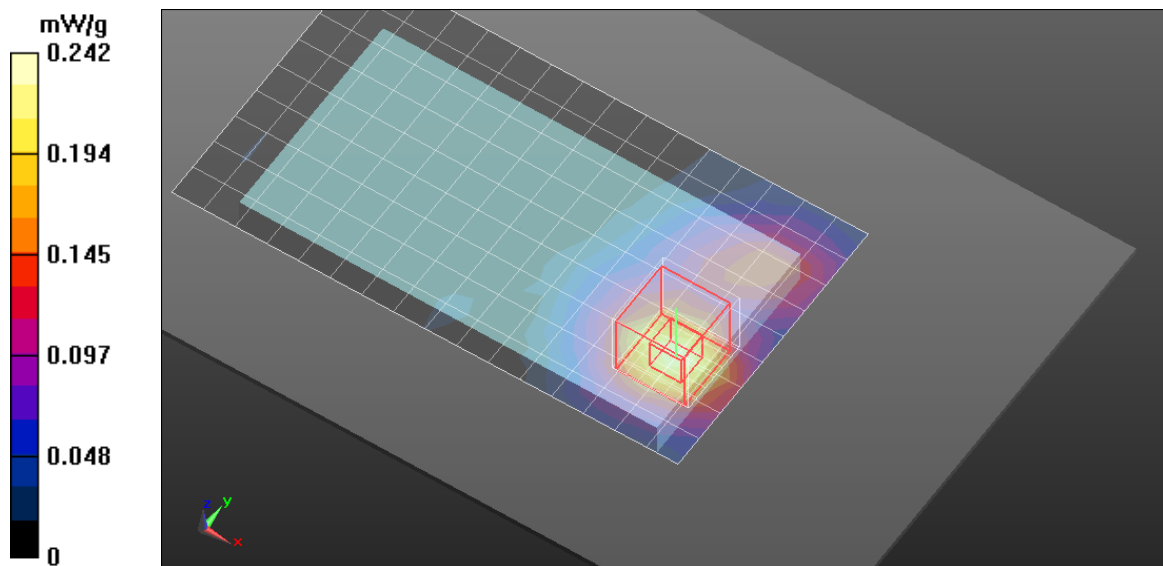
DASY5 - 5-6GHz, TRIPLE Flat Phone Template, Rev.2 (4-April-12)/TRIPLE Flat Phone Against Flat Section/7x7x12 Zoom Scan (5-6GHz) (7x7x6)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 5.776 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.3990

SAR(1 g) = 0.139 mW/g; SAR(10 g) = 0.058 mW/g

Maximum value of SAR (measured) = 0.242 mW/g



Test Laboratory: Motorola Mobility 5.8 GHz Body Worn

DUT: Type: Phone; Serial: LVULC30009, FCC ID: IHDT56NG9

Procedure Notes: Mode: 802.11a, 6Mbps; Battery Model #: INTERNAL

Test Config: Front of Phone 25mm from Phantom

Communication System: _WIFI 5-6GHz; Frequency: 5745 MHz; Duty Cycle: 1:1

Medium: 5.785 GHz BODY; Medium parameters used: $f = 5745 \text{ MHz}$; $\sigma = 6.09 \text{ mho/m}$; $\epsilon_r = 45.2$; $\rho = 1000 \text{ kg/m}^3$

DASY4 Configuration:

- Probe: EX3DV4 - SN3728; ConvF(3.71, 3.71, 3.71); Calibrated: 4/24/2012
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn440; Calibrated: 5/23/2012
- Phantom: R#-3, Triple Flat Phantom 5.1C (Rev.4); Type: QD 000 P51 CA; Serial: n/a;
- SEMCAD X Version 14.6.4 (4989)

DASY5 - 5-6GHz, TRIPLE Flat Phone Template, Rev.2 (4-April-12)/TRIPLE Flat Phone Against Flat Section/Phone Area Scan - Normal Body (10mm) (17x10x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$
Maximum value of SAR (measured) = 0.049 mW/g

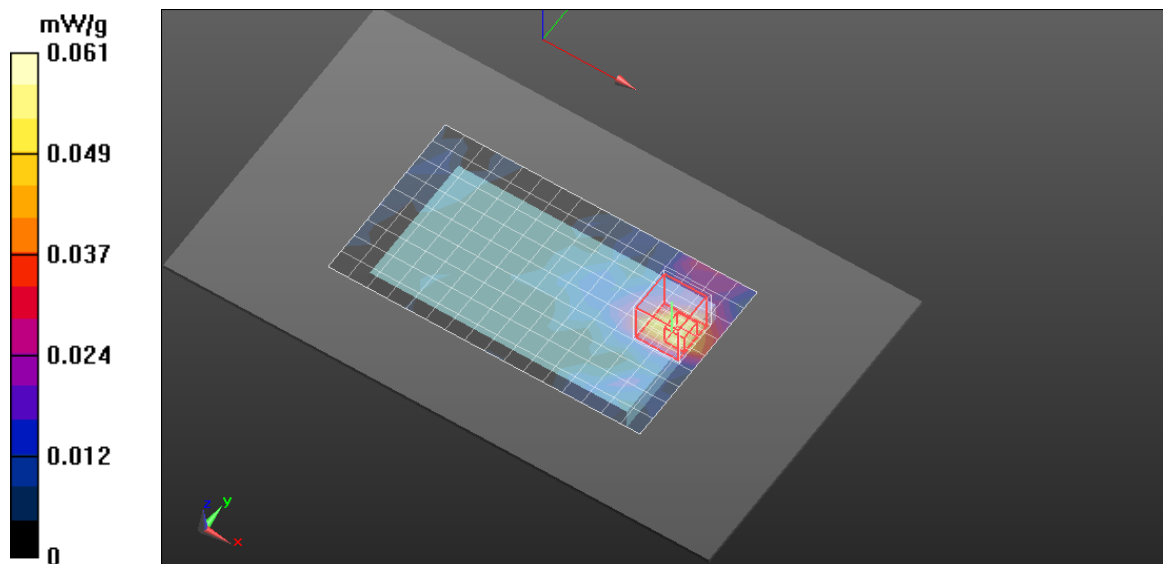
DASY5 - 5-6GHz, TRIPLE Flat Phone Template, Rev.2 (4-April-12)/TRIPLE Flat Phone Against Flat Section/7x7x12 Zoom Scan (5-6GHz) (7x7x6)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 3.164 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.0800

SAR(1 g) = 0.029 mW/g; SAR(10 g) = 0.012 mW/g

Maximum value of SAR (measured) = 0.061 mW/g



Appendix 4

SAR distribution plots for Mobile Hotspot Test Results

Test Laboratory: Motorola Mobility LTE Band 17 Mobile Hotspot

DUT: Type: Phone; Serial: LVUEB20013, FCC ID: IHDT56NG9

Procedure Notes: Mode: QPSK, 1 RB High; Battery Model #: INTERNAL Test Config: FRONT of Phone 10mm separation

Communication System: _LTE Band 17; Frequency: 710 MHz; Duty Cycle: 1:1

Medium: Low Freq Body 710 GLYCOL; Medium parameters used: $f = 710 \text{ MHz}$; $\sigma = 0.94 \text{ mho/m}$; $\epsilon_r = 55.2$; $\rho = 1000 \text{ kg/m}^3$

DASY4 Configuration:

- Probe: ES3DV3 - SN3115; ConvF(5.97, 5.97, 5.97); Calibrated: 1/11/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn699; Calibrated: 9/22/2011
- Phantom: R#2 Triple Flat Phantom 5.1C (Rev.4); Type: QD 000 P51 CA; Serial: n/a;
- SEMCAD X Version 14.6.4 (4989)

DASY5, Triple Flat Phone Template - Rev.5 (6-April-12)/Triple Flat Phone Template/Area Scan -

Normal Body (15mm) (14x8x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.786 mW/g

DASY5, Triple Flat Phone Template - Rev.5 (6-April-12)/Triple Flat Phone Template/5x5x7 Zoom

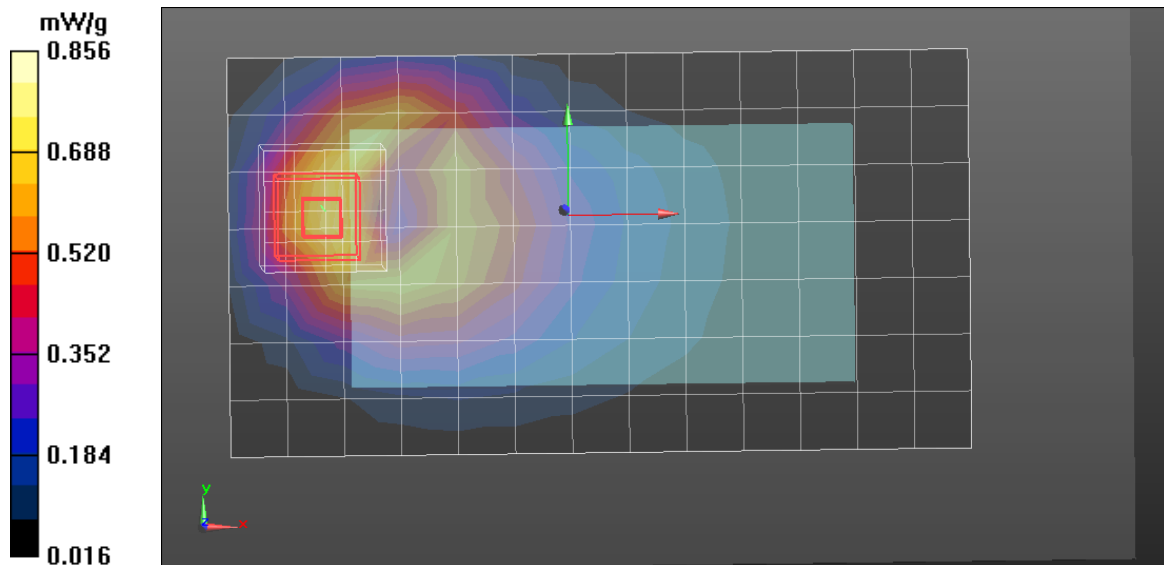
Scan ($\leq 3\text{GHz}$) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 27.729 V/m; Power Drift = 0.0015 dB

Peak SAR (extrapolated) = 1.4100

SAR(1 g) = 0.777 mW/g; SAR(10 g) = 0.439 mW/g

Maximum value of SAR (measured) = 0.856 mW/g



Test Laboratory: Motorola Mobility GSM 850MHz Mobile Hotspot

DUT: Type: PHONE; Serial: LVML2A0064, FCC ID: IHDT56NG9

Procedure Notes: Pwr Step: 05 Battery Model #:INTERNAL Test Config: RIGHT EDGE OF PHONE 10MM separation

Communication System: _GPRS Class 10; Frequency: 836.6 MHz; Duty Cycle: 1:4.14954

Medium: Low Freq Body; Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 1 \text{ mho/m}$; $\epsilon_r = 54.2$; $\rho = 1000 \text{ kg/m}^3$

DASY4 Configuration:

- Probe: ES3DV3 - SN3124; ConvF(6.04, 6.04, 6.04); Calibrated: 8/23/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn376; Calibrated: 8/31/2011
- Phantom: R#-1, Triple Flat Phantom 5.1C (Rev.4); Type: QD 000 P51 CA; Serial: n/a;
- SEMCAD X Version 14.6.4 (4989)

DASY5, Triple Flat Phone Template - Rev.5 (6-April-12)/Triple Flat Phone Template/Area Scan -

Normal Body (15mm) (14x8x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.502 mW/g

DASY5, Triple Flat Phone Template - Rev.5 (6-April-12)/Triple Flat Phone Template/5x5x7 Zoom

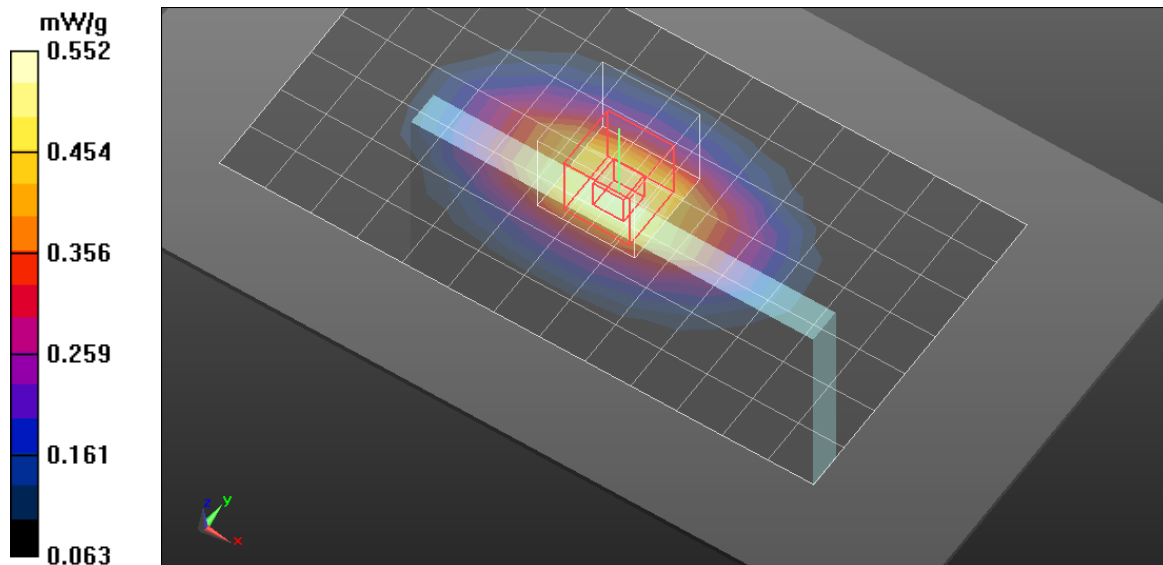
Scan ($\leq 3\text{GHz}$) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 23.738 V/m; Power Drift = -0.33 dB

Peak SAR (extrapolated) = 0.7370

SAR(1 g) = 0.514 mW/g; SAR(10 g) = 0.350 mW/g

Maximum value of SAR (measured) = 0.552 mW/g



Test Laboratory: Motorola Mobility WCDMA 850MHz Mobile Hotspot

DUT: Type: PHONE; Serial: LVML2A0064, FCC ID: IHDT56NG9

Procedure Notes: Pwr Step: ALL BITS UP Battery Model #:INTERNAL Test Config: RIGHT EDGE OF PHONE
10MM separation

Communication System: _WCDMA; Frequency: 836 MHz; Duty Cycle: 1:1

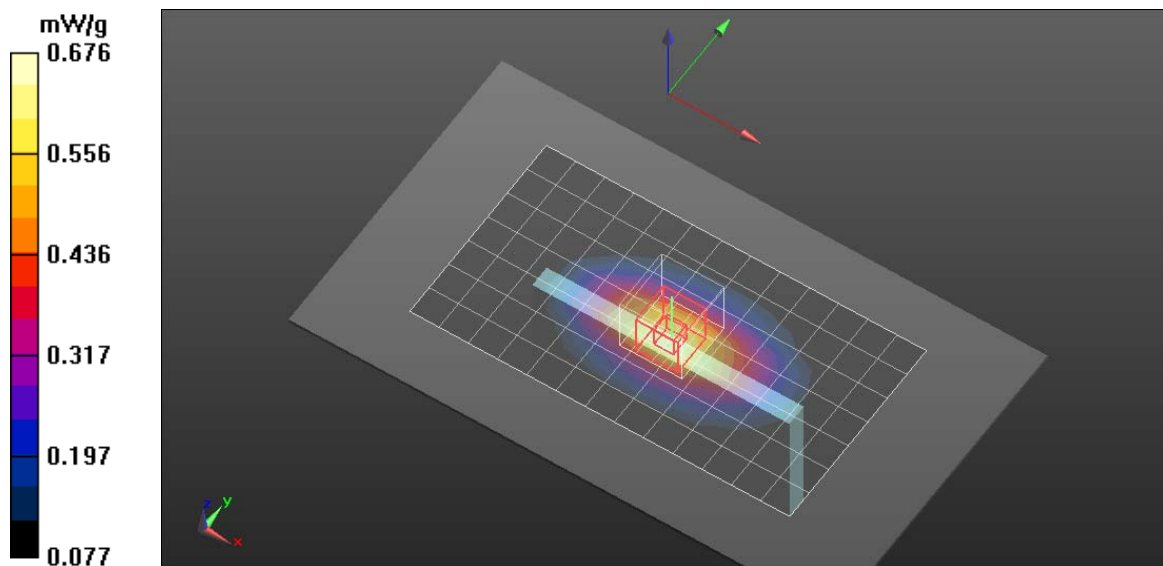
Medium: Low Freq Body; Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.98 \text{ mho/m}$; $\epsilon_r = 55$; $\rho = 1000 \text{ kg/m}^3$

DASY4 Configuration:

- Probe: ES3DV3 - SN3124; ConvF(6.04, 6.04, 6.04); Calibrated: 8/23/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn376; Calibrated: 8/31/2011
- Phantom: R#-1, Triple Flat Phantom 5.1C (Rev.4); Type: QD 000 P51 CA; Serial: n/a;
- SEMCAD X Version 14.6.4 (4989)

DASY5, Triple Flat Phone Template - Rev.5 (6-April-12)/Triple Flat Phone Template/Area Scan - Normal Body (15mm) (14x8x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (measured) = 0.631 mW/g

DASY5, Triple Flat Phone Template - Rev.5 (6-April-12)/Triple Flat Phone Template/5x5x7 Zoom Scan ($\leq 3\text{GHz}$) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 25.730 V/m; Power Drift = 0.006 dB
Peak SAR (extrapolated) = 0.9070
SAR(1 g) = 0.630 mW/g; SAR(10 g) = 0.428 mW/g
Maximum value of SAR (measured) = 0.676 mW/g



Test Laboratory: Motorola Mobility LTE Band 4 Mobile Hotspot w/ Power Reduction

DUT: Type: Phone; Serial: LVUEB20013, FCC ID: IHDT56NG9

Procedure Notes: Pwr Step: QPSK, 50% RB; Battery Model #: Internal

Test Config: Bottom Edge of Phone 10mm separation

Communication System: _LTE Band 04; Frequency: 1731.8 MHz; Duty Cycle: 1:1

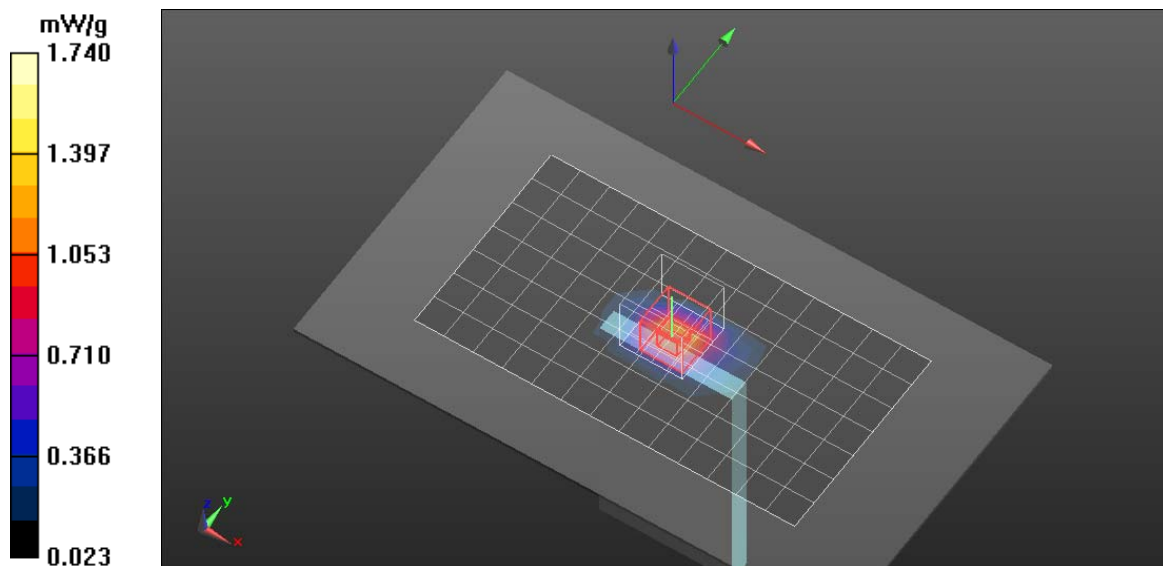
Medium: 1730 Glycol Body; Medium parameters used: $f = 1731.8 \text{ MHz}$; $\sigma = 1.52 \text{ mho/m}$; $\epsilon_r = 52.3$; $\rho = 1000 \text{ kg/m}^3$

DASY4 Configuration:

- Probe: ES3DV3 - SN3284; ConvF(5.28, 5.28, 5.28); Calibrated: 1/10/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1310; Calibrated: 1/11/2012
- Phantom: R#4, Triple Flat Phantom 5.1C (Rev.4); Type: QD 000 P51 CA; Serial: n/a;
- SEMCAD X Version 14.6.4 (4989)

DASY5, Triple Flat Phone Template - Rev.5 (6-April-12)/Triple Flat Phone Template/Area Scan - Normal Body (15mm) (14x8x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (measured) = 1.128 mW/g

DASY5, Triple Flat Phone Template - Rev.5 (6-April-12)/Triple Flat Phone Template/5x5x7 Zoom Scan ($\leq 3\text{GHz}$) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 26.947 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 2.7420
SAR(1 g) = 1.51 mW/g; SAR(10 g) = 0.756 mW/g
Maximum value of SAR (measured) = 1.740 mW/g



Test Laboratory: Motorola Mobility GSM 1900 Mobile Hotspot w Power Reduction - High Channel

DUT: Type: Tablet; Serial: LVML2A0064, FCC ID: IHDT56NG9

Procedure Notes: Pwr Step: 0,0,0 Battery Model #: INTERNAL Test Config: bottom edge 10mm separation

Communication System: _GPRS Class 11; Frequency: 1909.8 MHz; Duty Cycle: 1:2.75994

Medium: Regular Glycol Body 1750/1880; Medium parameters used: $f = 1908.9$ MHz; $\sigma = 1.59$ mho/m; $\epsilon_r = 51.6$; $\rho = 1000$ kg/m³

DASY4 Configuration:

- Probe: ES3DV3 - SN3284; ConvF(5.28, 5.28, 5.28); Calibrated: 1/10/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1310; Calibrated: 1/11/2012
- Phantom: R#4, Triple Flat Phantom 5.1C (Rev.4); Type: QD 000 P51 CA; Serial: n/a;
- SEMCAD X Version 14.6.4 (4989)

DASY5, Triple Flat Phone Template - Rev.5 (6-April-12)/Triple Flat Phone Template/Area Scan -

Normal Body (15mm) (14x8x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.726 mW/g

DASY5, Triple Flat Phone Template - Rev.5 (6-April-12)/Triple Flat Phone Template/5x5x7 Zoom

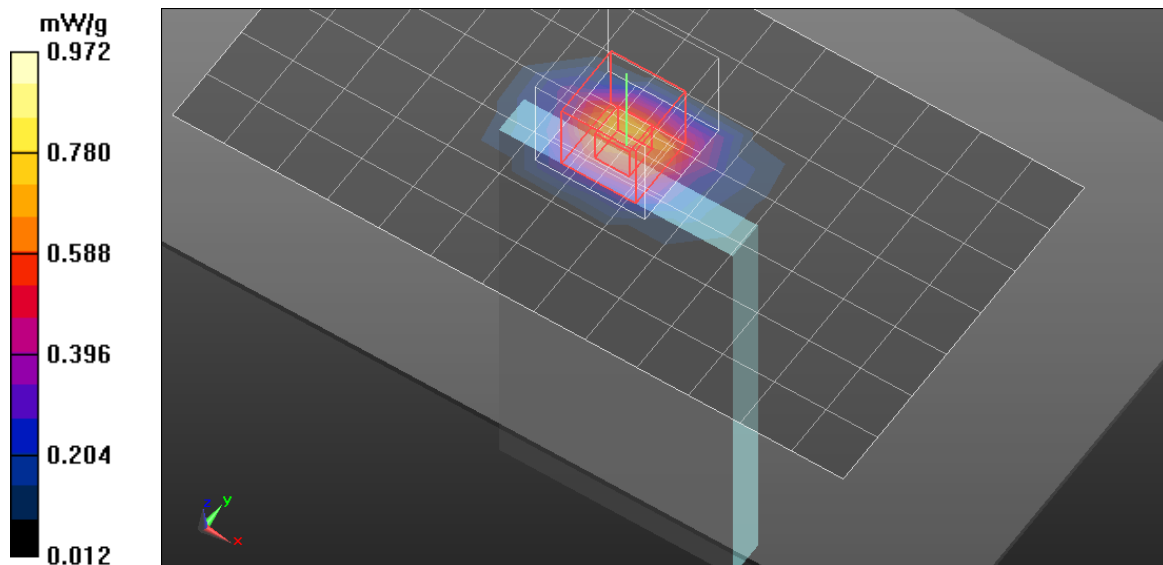
Scan (≤ 3 GHz) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 21.094 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 1.5400

SAR(1 g) = 0.855 mW/g; SAR(10 g) = 0.429 mW/g

Maximum value of SAR (measured) = 0.972 mW/g



Test Laboratory: Motorola Mobility WCDMA 1900MHz Mobile Hotspot

DUT: Type: Phone Serial: LVML2A0064, FCC ID: IHDT56NG9

Procedure Notes: Pwr Step: ALL UP BITS Battery Model #: INTERNAL Test Config = bottom of Phone 10mm separation

Communication System: _WCDMA; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: Regular Glycol Body 1750/1880; Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.56 \text{ mho/m}$; $\epsilon_r = 52.4$; $\rho = 1000 \text{ kg/m}^3$

DASY4 Configuration:

- Probe: ES3DV3 - SN3284; ConvF(5.28, 5.28, 5.28); Calibrated: 1/10/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1310; Calibrated: 1/11/2012
- Phantom: R#4, Triple Flat Phantom 5.1C (Rev.4); Type: QD 000 P51 CA; Serial: n/a;
- SEMCAD X Version 14.6.4 (4989)

DASY5, Triple Flat Phone Template - Rev.5 (6-April-12)/Triple Flat Phone Template/Area Scan -

Normal Body (15mm) (14x8x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.490 mW/g

DASY5, Triple Flat Phone Template - Rev.5 (6-April-12)/Triple Flat Phone Template/5x5x7 Zoom

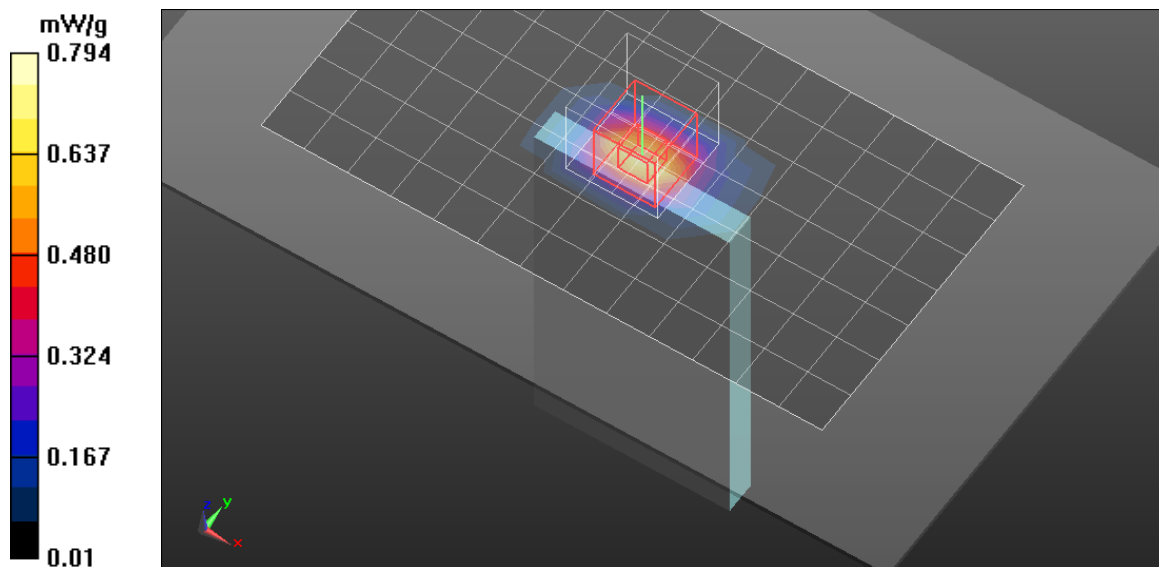
Scan ($\leq 3\text{GHz}$) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 18.409 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 1.2440

SAR(1 g) = 0.696 mW/g; SAR(10 g) = 0.350 mW/g

Maximum value of SAR (measured) = 0.794 mW/g



Test Laboratory: Motorola Mobility 2.45 GHz WiFi Mobile Hotspot

DUT: Type: Phone; Serial: LVULC30006, FCC ID: IHDT56NG9

Procedure Notes: Mode: 802.11b, 1Mbps; Battery Model #: INTERNAL

Test Config: LEFT EDGE OF PHONE 10MM FROM PHANTOM

Communication System: _Wi-Fi 2450MHz; Frequency: 2437 MHz;Duty Cycle: 1:1

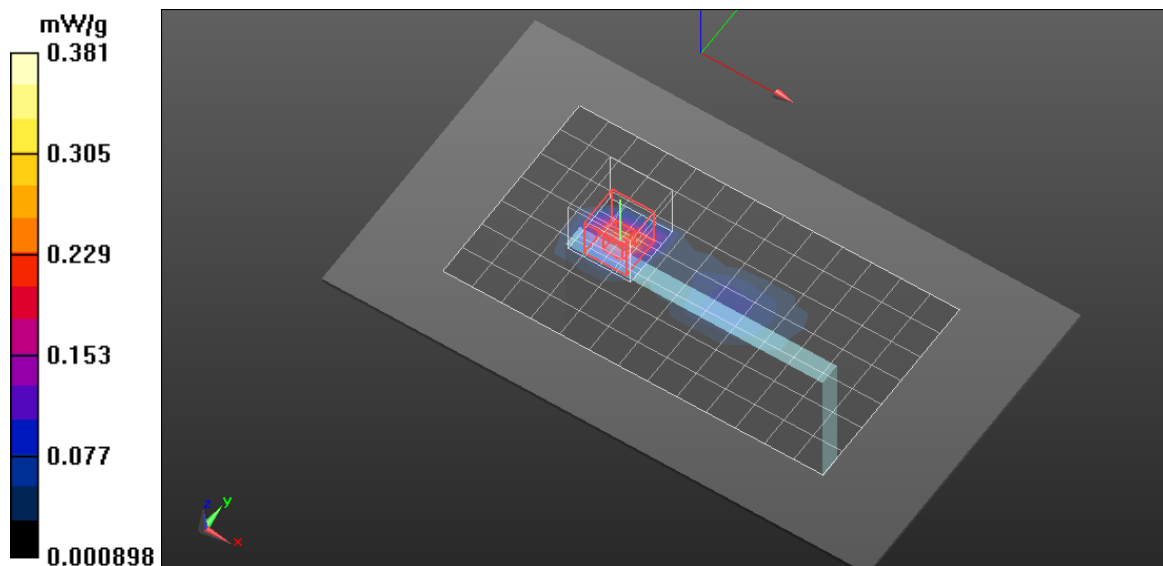
Medium: 2450 Triton Body; Medium parameters used: $f = 2437 \text{ MHz}$; $\sigma = 1.94 \text{ mho/m}$; $\epsilon_r = 51.9$; $\rho = 1000 \text{ kg/m}^3$

DASY4 Configuration:

- Probe: EX3DV4 - SN3728; ConvF(6.84, 6.84, 6.84); Calibrated: 4/24/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn440; Calibrated: 5/23/2012
- Phantom: R#-3, Triple Flat Phantom 5.1C (Rev.4); Type: QD 000 P51 CA; Serial: n/a;
- SEMCAD X Version 14.6.4 (4989)

DASY5, Triple Flat Phone Template - Rev.5 (6-April-12)/Triple Flat Phone Template/Area Scan - Normal Body (15mm) (14x8x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (measured) = 0.233 mW/g

DASY5, Triple Flat Phone Template - Rev.5 (6-April-12)/Triple Flat Phone Template/5x5x7 Zoom Scan ($\leq 3\text{GHz}$) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 13.484 V/m; Power Drift = -0.00065 dB
Peak SAR (extrapolated) = 0.6920
SAR(1 g) = 0.310 mW/g; SAR(10 g) = 0.123 mW/g
Maximum value of SAR (measured) = 0.381 mW/g..



Test Laboratory: Motorola Mobility 5.8 GHz WiFi Mobile Hotspot

DUT: Type: Phone; Serial: LVULC30009, FCC ID: IHDT56NG9

Procedure Notes: Mode: 802.11a, 6Mbps; Battery Model #: INTERNAL Test

Config: LEFT Edge of Phone 10MM FROM PHANTOM

Communication System: _WIFI 5-6GHz; Frequency: 5745 MHz; Duty Cycle: 1:1

Medium: 5.785 GHz BODY; Medium parameters used: $f = 5745 \text{ MHz}$; $\sigma = 6.19 \text{ mho/m}$; $\epsilon_r = 45.8$; $\rho = 1000 \text{ kg/m}^3$

DASY4 Configuration:

- Probe: EX3DV4 - SN3728; ConvF(3.71, 3.71, 3.71); Calibrated: 4/24/2012
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn440; Calibrated: 5/23/2012
- Phantom: R#-3, Triple Flat Phantom 5.1C (Rev.4); Type: QD 000 P51 CA; Serial: n/a;
- SEMCAD X Version 14.6.4 (4989)

DASY5 - 5-6GHz, TRIPLE Flat Phone Template, Rev.2 (4-April-12)/TRIPLE Flat Phone Against Flat Section/Phone Area Scan - Normal Body (10mm) (17x10x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$
Maximum value of SAR (measured) = 0.249 mW/g

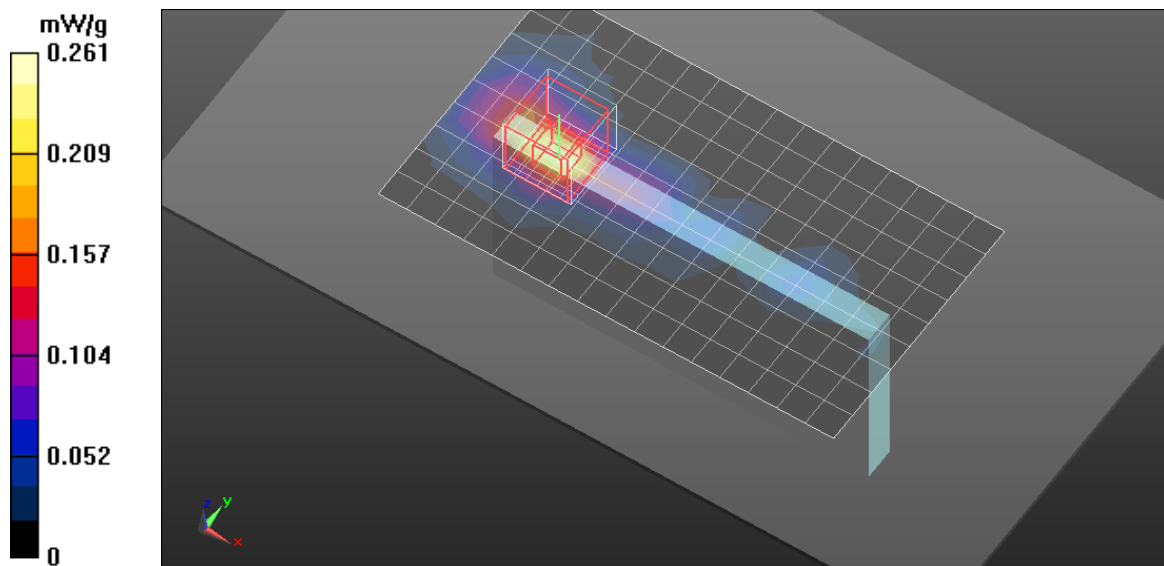
DASY5 - 5-6GHz, TRIPLE Flat Phone Template, Rev.2 (4-April-12)/TRIPLE Flat Phone Against Flat Section/7x7x12 Zoom Scan (5-6GHz) (7x7x6)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 7.089 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 0.3980

SAR(1 g) = 0.132 mW/g; SAR(10 g) = 0.047 mW/g

Maximum value of SAR (measured) = 0.261 mW/g



Appendix 5

Measurement Uncertainty Budget

Uncertainty Budget for Device Under Test, for 735 MHz to 3 GHz

<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>e</i> = <i>f</i> (<i>d</i> , <i>k</i>)	<i>f</i>	<i>g</i>	<i>h</i> = <i>c</i> × <i>f</i> / <i>e</i>	<i>i</i> = <i>c</i> × <i>g</i> / <i>e</i>	<i>k</i>
Uncertainty Component	Description IEEE1528(2003) / IEC62209-1(2005)	Tol. (± %)	Prob Dist	Div.	<i>c_i</i> (1 g)	<i>c_i</i> (10 g)	1 g <i>u_i</i> (±%)	10 g <i>u_i</i> (±%)	<i>v_i</i>
Measurement System									
Probe Calibration [ES3DV3]	E.2.1 / 7.2.1	6.0	N	1.00	1	1	6.0	6.0	∞
Axial Isotropy	E.2.2 / 7.2.1.2	4.7	R	1.73	0.707	0.707	1.9	1.9	∞
Hemispherical Isotropy	E.2.2 / 7.2.1.2	9.6	R	1.73	0.707	0.707	3.9	3.9	∞
Boundary Effect	E.2.3 / 7.2.1.5	1.0	R	1.73	1	1	0.6	0.6	∞
Linearity	E.2.4 / 7.2.1.3	4.7	R	1.73	1	1	2.7	2.7	∞
System Detection Limits	E.2.5 / 7.2.1.4	1.0	R	1.73	1	1	0.6	0.6	∞
Readout Electronics	E.2.6 / 7.2.1.6	0.3	N	1.00	1	1	0.3	0.3	∞
Response Time	E.2.7 / 7.2.1.7	1.1	R	1.73	1	1	0.6	0.6	∞
Integration Time	E.2.8 / 7.2.1.8	1.1	R	1.73	1	1	0.6	0.6	∞
RF Ambient Conditions - Noise	E.6.1 / 7.2.3.6	3.0	R	1.73	1	1	1.7	1.7	∞
RF Ambient Conditions - Reflections	E.6.1 / 7.2.3.6	3.0	R	1.73	1	1	1.7	1.7	∞
Probe Positioner Mech. Tolerance	E.6.2 / 7.2.2.1	0.4	R	1.73	1	1	0.2	0.2	∞
Probe Positioning w.r.t Phantom	E.6.3 / 7.2.2.3	1.4	R	1.73	1	1	0.8	0.8	∞
Max. SAR Evaluation (ext., int., avg.)	E.5 / 7.2.4	3.4	R	1.73	1	1	2.0	2.0	∞
Test sample Related									
Test Sample Positioning	E.4.2 / 7.2.2.4	3.4	N	1.00	1	1	3.4	3.4	79
Device Holder Uncertainty	E.4.1 / 7.2.2.4.2	4.5	N	1.00	1	1	4.5	4.5	11
SAR drift	6.6.2 / 7.2.3.5	0.0	R	1.73	1	1	0.0	0.0	∞
Phantom and Tissue Parameters									
Phantom Uncertainty	E.3.1 / 7.2.2.2	4.0	R	1.73	1	1	2.3	2.3	∞
Liquid Conductivity (target)	E.3.2 / 7.2.3.3	5.0	R	1.73	0.64	0.43	1.8	1.2	∞
Liquid Conductivity (measurement)	E.3.3 / 7.2.3.3	2.5	N	1.00	0.64	0.43	1.6	1.1	6
Liquid Permittivity (target)	E.3.2 / 7.2.3.4	5.0	R	1.73	0.6	0.49	1.7	1.4	∞
Liquid Permittivity (measurement)	E.3.2 / 7.2.3.4	2.3	N	1.00	0.6	0.49	1.4	1.1	6
Combined Standard Uncertainty			RSS				11	11	372
Expanded Uncertainty (95% CONFIDENCE LEVEL)			<i>k</i> =2				22	22	

Uncertainty Budget for Device Under Test for 3 to 6 GHz

<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	$e = f(d,k)$	<i>f</i>	<i>g</i>	$h = c \times f / e$	$i = c \times g / e$	<i>k</i>
Uncertainty Component	Description IEC62209-2(2010)	Tol. (± %)	Prob Dist	Div.	<i>c_i</i> (1 g)	<i>c_i</i> (10 g)	1 g <i>u_i</i> (±%)	10 g <i>u_i</i> (±%)	<i>v_i</i>
Measurement System									
Probe Calibration [EX3DV4]	7.2.2.1	6.6	N	1.00	1	1	6.6	6.6	∞
Axial Isotropy	7.2.2.2	4.7	R	1.73	0.707	0.707	1.9	1.9	∞
Hemispherical Isotropy	7.2.2.2	9.6	R	1.73	0.707	0.707	3.9	3.9	∞
Boundary Effect	7.2.2.6	2.0	R	1.73	1	1	1.2	1.2	∞
Linearity	7.2.2.5	4.7	R	1.73	1	1	2.7	2.7	∞
System Detection Limits	7.2.2	1.0	R	1.73	1	1	0.6	0.6	∞
Readout Electronics	7.2.2.7	0.3	N	1.00	1	1	0.3	0.3	∞
Response Time	7.2.2.8	1.1	R	1.73	1	1	0.6	0.6	∞
Integration Time	7.2.2.9	1.1	R	1.73	1	1	0.6	0.6	∞
RF Ambient Conditions - Noise	7.2.4.5	3.0	R	1.73	1	1	1.7	1.7	∞
RF Ambient Conditions - Reflections	7.2.4.5	3.0	R	1.73	1	1	1.7	1.7	∞
Probe Positioner Mech. Tolerance	7.2.3.1	1.0	R	1.73	1	1	0.6	0.6	∞
Probe Positioning w.r.t Phantom	7.2.3.3	4.0	R	1.73	1	1	2.3	2.3	∞
Max. SAR Evaluation (ext., int., avg.)	7.2.5.3	4.0	R	1.73	1	1	2.3	2.3	∞
Test sample Related									
Test Sample Positioning	7.2.3.4	3.4	N	1.00	1	1	3.4	3.4	79
Device Holder Uncertainty	7.2.3.4	4.5	N	1.00	1	1	4.5	4.5	11
SAR drift	7.2.2.10	0.0	R	1.73	1	1	0.0	0.0	∞
Phantom and Tissue Parameters									
Phantom Uncertainty	7.2.3.2	4.0	R	1.73	1	1	2.3	2.3	∞
Liquid Conductivity (target)		5.0	R	1.73	0.64	0.43	1.8	1.2	∞
Liquid Conductivity (measurement)	7.2.4.3	3.4	N	1.00	0.64	0.43	2.2	1.5	6
Liquid Permittivity (target)		10.0	R	1.73	0.6	0.49	3.5	2.8	∞
Liquid Permittivity (measurement)	7.2.4.3	2.6	N	1.00	0.6	0.49	1.6	1.3	6
Combined Standard Uncertainty			RSS				12	12	508
Expanded Uncertainty (95% CONFIDENCE LEVEL)			<i>k</i> =2				24	24	