

Appendix 1

SAR distribution comparisons for System Accuracy Verifications

System Accuracy Verification Measurements for Head SAR Measurements

Test Laboratory: Motorola Mobility

835MHz System Performance Check (Head Tissue)

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:4D128

Procedure Notes: PMI Power = 200 mW Refl Pwr PM3 = -23.41 dB [Sim Temp@SPC](#) = 19.5C Room Temp @ SPC = 20.8C

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

Medium: Validation *HEAD Tissue*, Medium parameters used: $f = 835 \text{ MHz}$, $\sigma = 0.92 \text{ mho/m}$, $\epsilon_r = 40.8$, $\rho = 1000 \text{ kg/m}^3$

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 14.6.5 (6469)

DASY5, SAM - System Performance Check Template, Rev.2 (12-Sept-11)/Daily SPC Check/Dipole Area Scan (5x15x1):

Measurement grid: $dx=10\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 2.14 mW/g

DASY5, SAM - System Performance Check Template, Rev.2 (12-Sept-11)/Daily SPC Check/0-Degree, 5x5x7 Cube (5x5x7)/Cube

0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 49.114 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 3.056 mW/g

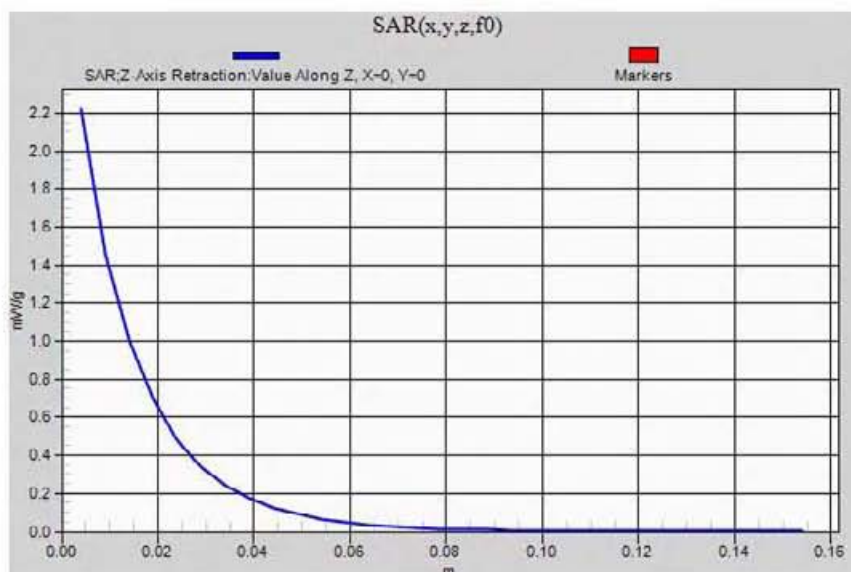
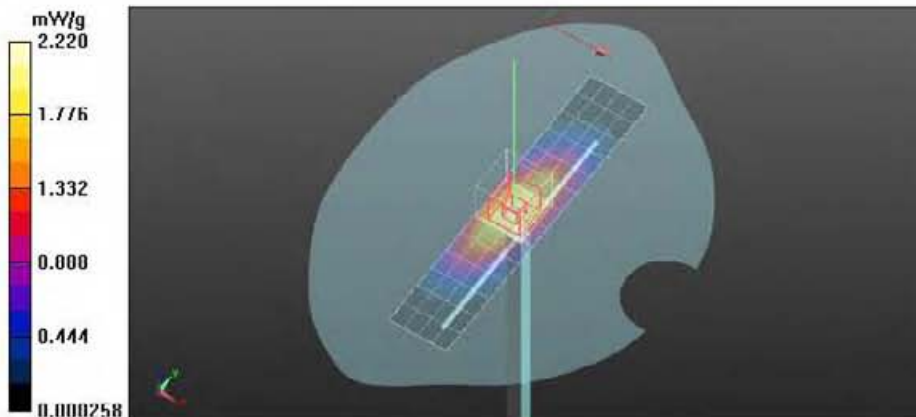
SAR(1 g) = 2.02 mW/g; SAR(10 g) = 1.31 mW/g

Maximum value of SAR (measured) = 2.18 mW/g

DASY5, SAM - System Performance Check Template, Rev.2 (12-Sept-11)/Daily SPC Check/Z-Axis Retraction (1x1x31):

Measurement grid: $dx=20\text{mm}$, $dy=20\text{mm}$, $dz=5\text{mm}$

Maximum value of SAR (measured) = 2.22 mW/g



Test Laboratory: Motorola Mobility - 835MHz System Performance Check (Head Tissue)

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:4D128

Procedure Notes: PM1 Power = 200 mW Refl.Pwr PM3 = -30 dB Sim.Temp@SPC = 19.8C Room Temp @ SPC = 21.4°C

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

Medium: Validation *HEAD Tissue*; Medium parameters used: $f = 835$ MHz; $\sigma = 0.94$ mho/m; $\epsilon_r = 42$; $\rho = 1000$ kg/m³

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 14.6.5 (6469)

DASY5, SAM - System Performance Check Template, Rev.2 (12-Sept-11)/Daily SPC Check/Dipole Area Scan (5x15x1):

Measurement grid: dx=10mm, dy=15mm

Maximum value of SAR (measured) = 2.20 mW/g

DASY5, SAM - System Performance Check Template, Rev.2 (12-Sept-11)/Daily SPC Check/0-Degree, 5x5x7 Cube (5x5x7)/Cube

0; Measurement grid: dx=8mm, dy=8mm, dz=5mm

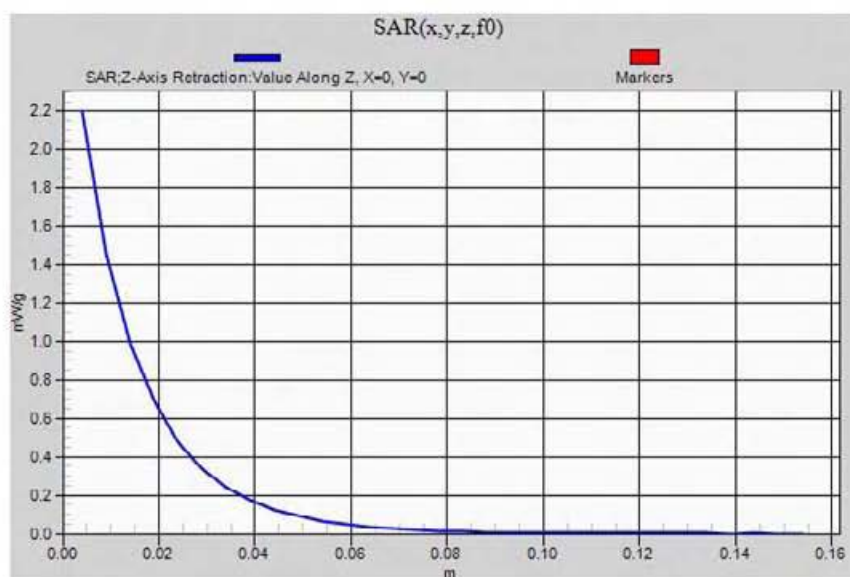
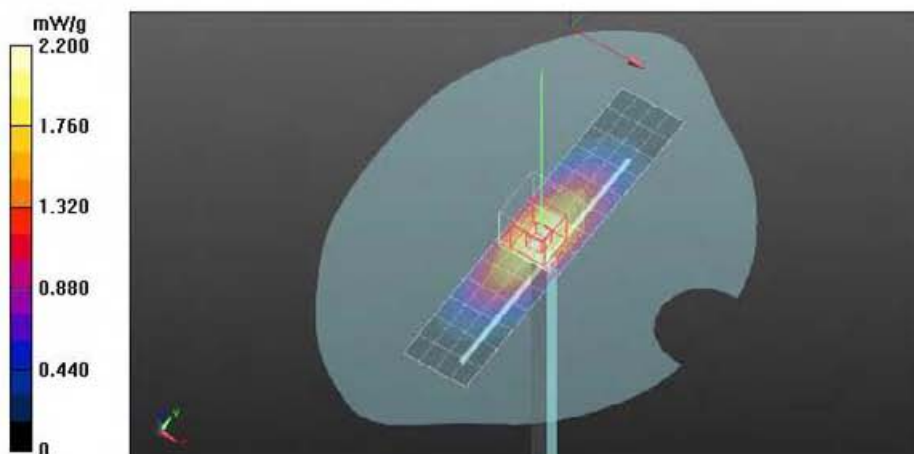
Reference Value = 48.697 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 3.099 mW/g

SAR(1 g) = 2.04 mW/g; SAR(10 g) = 1.32 mW/g

DASY5, SAM - System Performance Check Template, Rev.2 (12-Sept-11)/Daily SPC Check/Z-Axis Retraction (1x1x31):

Measurement grid: dx=20mm, dy=20mm, dz=5mm



Test Laboratory: Motorola Mobility - 835MHz System Performance Check (Head Tissue)

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:4D128

Procedure Notes: PM1 Power = 200 mW Refl Pwr PM3 = -30.10 dB [Sim Temp@SPC](#) = 19.3C Room Temp @ SPC = 20.8C

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

Medium: Validation *HEAD Tissue* ; Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.92 \text{ mho/m}$; $\epsilon_r = 41.4$; $\rho = 1000 \text{ kg/m}^3$

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 5 (6469)

DASY5, SAM - System Performance Check Template, Rev.2 (12-Sept-11)/Daily SPC Check/Dipole Area Scan (5x15x1):

Measurement grid: dx=10mm, dy=15mm

Maximum value of SAR (measured) = 2.13 mW/g

DASY5, SAM - System Performance Check Template, Rev.2 (12-Sept-11)/Daily SPC Check/0-Degree, 5x5x7 Cube (5x5x7)/Cube

0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 48.488 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 3.059 mW/g

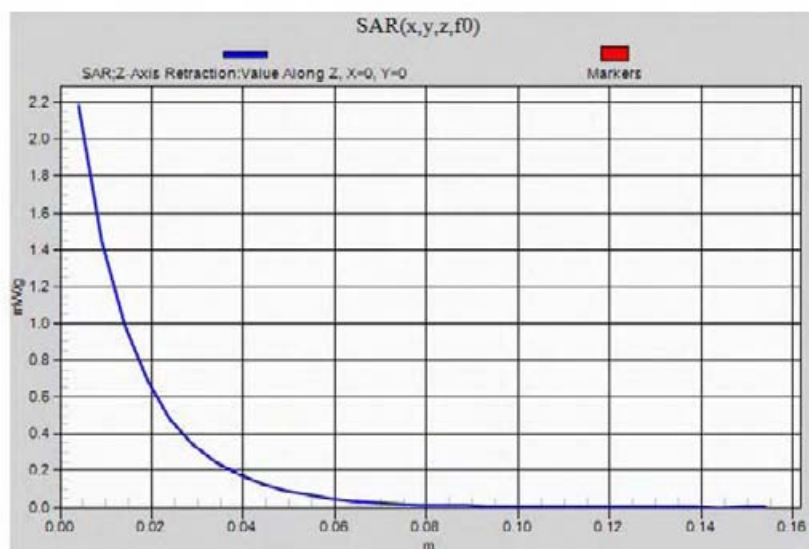
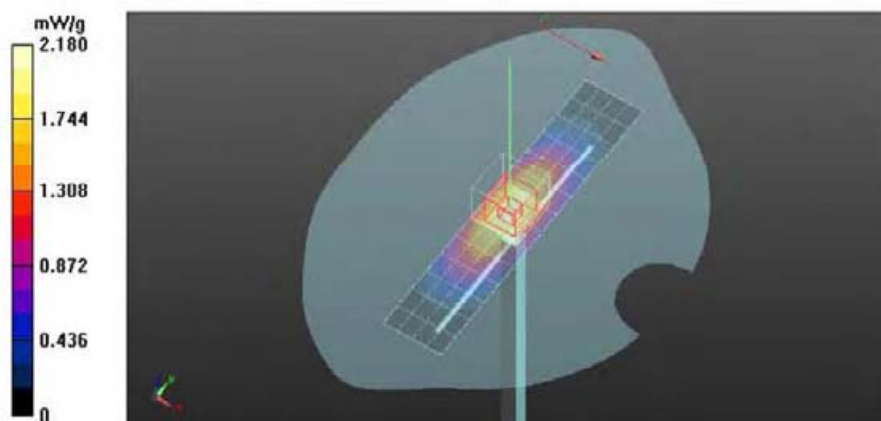
SAR(1 g) = 2.02 mW/g; SAR(10 g) = 1.32 mW/g

Maximum value of SAR (measured) = 2.19 mW/g

DASY5, SAM - System Performance Check Template, Rev.2 (12-Sept-11)/Daily SPC Check/Z-Axis Retraction (1x1x31):

Measurement grid: dx=20mm, dy=20mm, dz=5mm

Maximum value of SAR (measured) = 2.18 mW/g



Test Laboratory: Motorola Mobility - 835MHz System Performance Check (Head Tissue)

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:4D129

Procedure Notes: PM1 Power = 200 mW Refl.Pwr PM3 = -22.80 dB Sim.Temp@SPC = 19.2C Room Temp @ SPC = 21.2C

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

Medium: Validation *HEAD Tissue*; Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.94 \text{ mho/m}$; $\epsilon_r = 40.5$; $\rho = 1000 \text{ kg/m}^3$

DASY4 Configuration:

- Probe: ES3DV3 - SN3284; ConvF(6.18, 6.18, 6.18); Calibrated: 1/10/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1310; Calibrated: 1/11/2012
- Phantom: R# 4 Sugar SAM (extended range), Rev.2 (24-Feb-12), Type: SAM v4.0, Serial: TP-1132,
- SEMCAD X Version 14.6.5 (6469)

DASY5, SAM - System Performance Check Template, Rev.2 (12-Sept-11)/Daily SPC Check/Dipole Area Scan (5x15x1):

Measurement grid: $dx=10\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 2.19 mW/g

DASY5, SAM - System Performance Check Template, Rev.2 (12-Sept-11)/Daily SPC Check/0-Degree, 5x5x7 Cube (5x5x7)/Cube

0; Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 49.400 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 3.019 mW/g

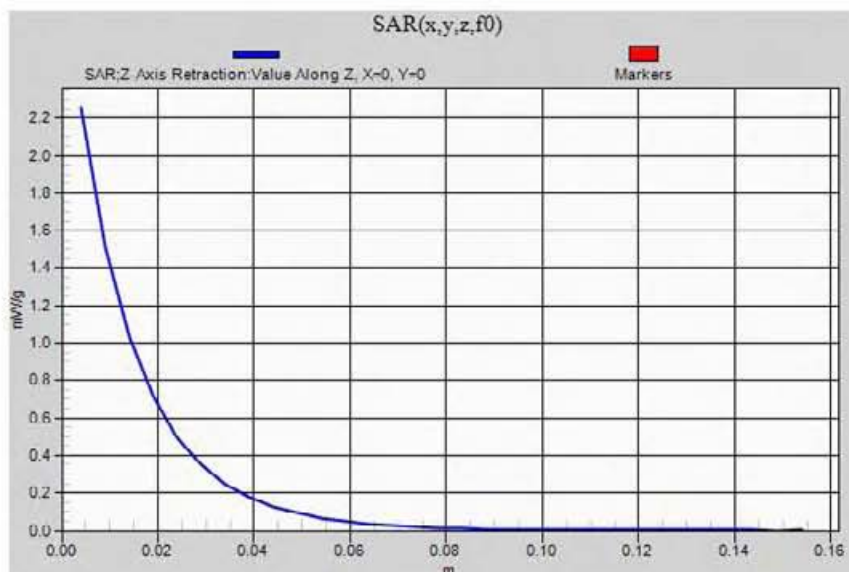
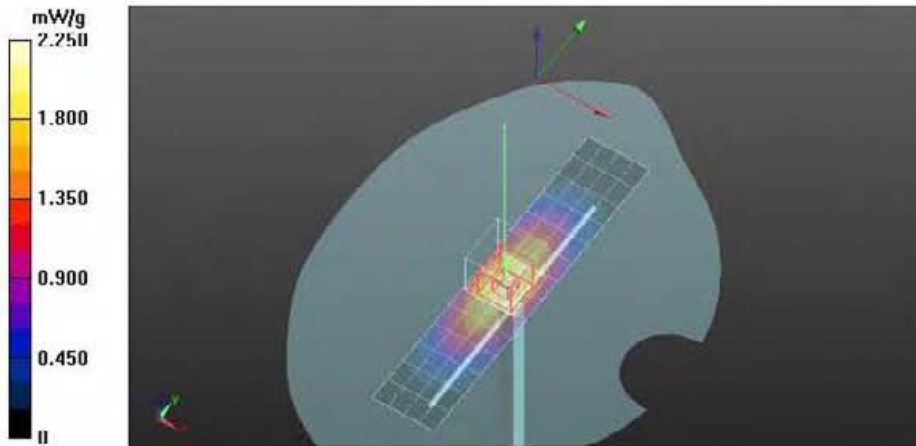
SAR(1 g) = 2.05 mW/g; SAR(10 g) = 1.34 mW/g

Maximum value of SAR (measured) = 2.22 mW/g

DASY5, SAM - System Performance Check Template, Rev.2 (12-Sept-11)/Daily SPC Check/Z-Axis Retraction (1x1x31):

Measurement grid: $dx=20\text{mm}$, $dy=20\text{mm}$, $dz=5\text{mm}$

Maximum value of SAR (measured) = 2.25 mW/g



Test Laboratory: Motorola Mobility - 835MHz System Performance Check (Head Tissue)

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:4D129

Procedure Notes: PM1 Power = 200 mW Refl.Pwr PM3 = -23.00 dB Sim.Temp@SPC = 19.0C Room Temp @ SPC = 21.0C

Communication System: CW - Dipole, Frequency: 835 MHz, Duty Cycle: 1.1

Medium: Validation *HEAD Tissue*; Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.93 \text{ mho/m}$; $\epsilon_r = 40.5$; $\rho = 1000 \text{ kg/m}^3$

DASY4 Configuration:

- Probe: ES3DV3 - SN3284; ConvF(6.18, 6.18, 6.18); Calibrated: 1/10/2012;
- Sensor Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1310; Calibrated: 1/11/2012
- Phantom: R#_ 4 Sugar SAM (extended range), Rev.2 (24-Feb-12); Type: SAM v4.0; Serial: TP-1132;
- SEMCAD X Version 14.6.5 (6469)

DASY5, SAM - System Performance Check Template, Rev.2 (12-Sept-11)/Daily SPC Check/Dipole Area Scan (5x15x1):

Measurement grid: $dx=10\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 2.14 mW/g

DASY5, SAM - System Performance Check Template, Rev.2 (12-Sept-11)/Daily SPC Check/0-Degree, 5x5x7 Cube (5x5x7)/Cube

0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 48.583 V/m, Power Drift = -0.00 dB

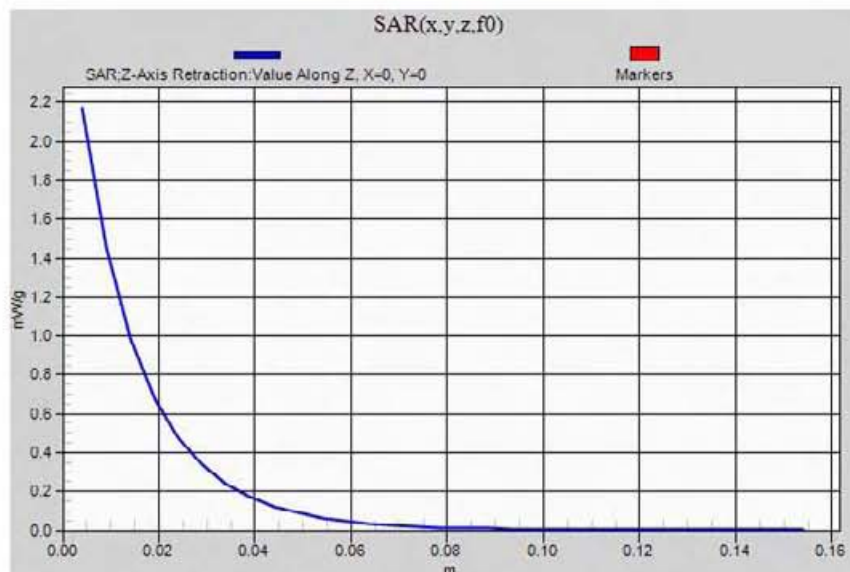
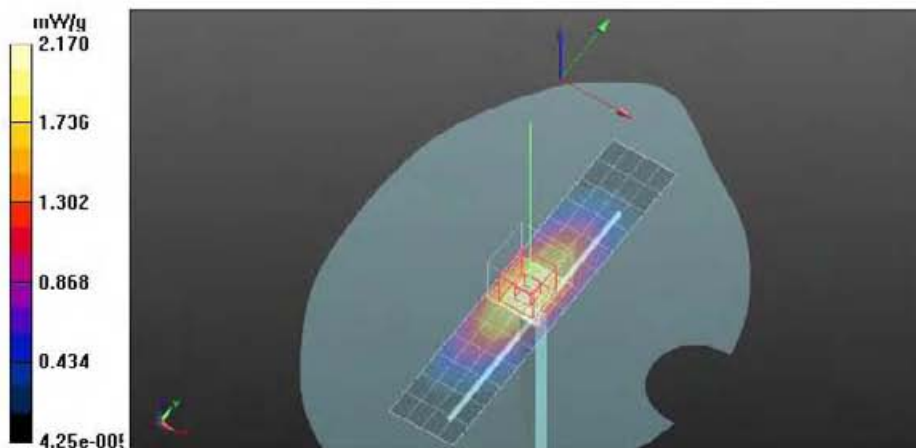
Peak SAR (extrapolated) = 2.970 mW/g

SAR(1 g) = 2.01 mW/g; SAR(10 g) = 1.31 mW/g

Maximum value of SAR (measured) = 2.17 mW/g

DASY5, SAM - System Performance Check Template, Rev.2 (12 Sept 11)/Daily SPC Check/Z Axis Retraction (1x1x31):

Measurement grid: $dx=20\text{mm}$, $dy=20\text{mm}$, $dz=5\text{mm}$



Test Laboratory: Motorola Mobility - 835MHz System Performance Check (Head Tissue)

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:4D129

Procedure Notes: PM1 Power = 200 mW Refl.Pwr PM3 = -23.55 dB [Sim Temp@SPC](#) = 19.7°C Room Temp @ SPC = 21.7°C

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

Medium: Validation *HEAD Tissue*; Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.94 \text{ mho/m}$; $\epsilon_r = 41.4$; $\rho = 1000 \text{ kg/m}^3$

DASY4 Configuration:

- Probe: ES3DV3 - SN3284; ConvF(6.18, 6.18, 6.18); Calibrated: 1/10/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1310; Calibrated: 1/11/2012
- Phantom: R#_ 4 Sugar SAM (extended range), Rev.2 (24-Feb-12); Type: SAM v4.0; Serial: TP-1132;
- SEMCAD X Version 14 6 5 (6469)

DASY5, SAM - System Performance Check Template, Rev.2 (12 Sept 11)/Daily SPC Check/Dipole Area Scan (5x15x1):

Measurement grid: $dx=10\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 2.19 mW/g

DASY5, SAM - System Performance Check Template, Rev.2 (12-Sept-11)/Daily SPC Check/0-Degree, 5x5x7 Cube (5x5x7)/Cube

0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 48.953 V/m; Power Drift = 0.00 dB

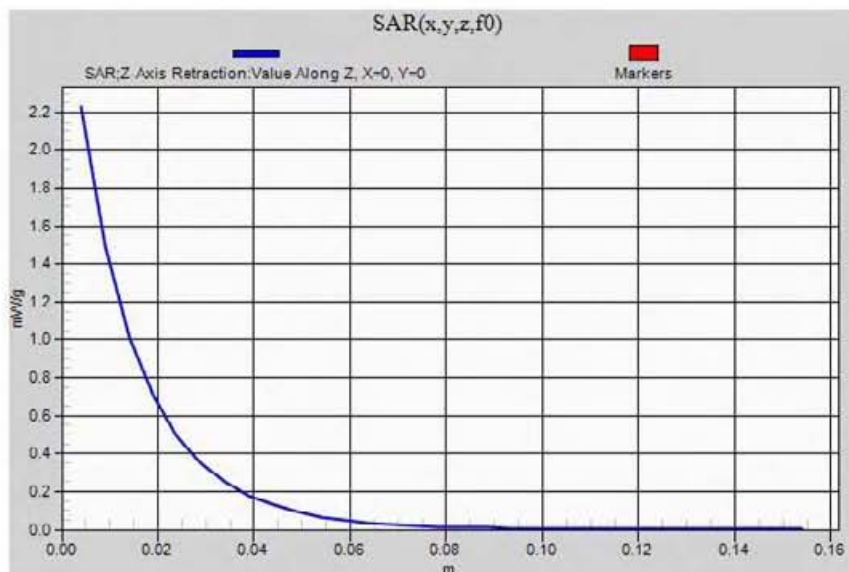
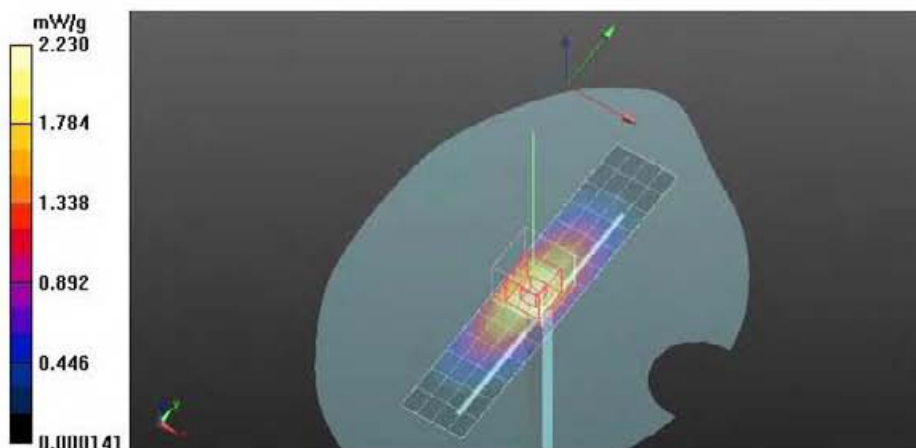
Peak SAR (extrapolated) = 3.059 mW/g

SAR(1 g) = 2.06 mW/g; SAR(10 g) = 1.34 mW/g

Maximum value of SAR (measured) = 2.23 mW/g

DASY5, SAM - System Performance Check Template, Rev.2 (12-Sept-11)/Daily SPC Check/Z-Axis Retraction (1x1x31):

Measurement grid: $dx=20\text{mm}$, $dy=20\text{mm}$, $dz=5\text{mm}$



Test Laboratory: Motorola Mobility - 1800 MHz System Performance Check (Head Tissue)

DUT: Dipole 1800 MHz; Type: D1800V2; Serial: D1800V2 - SN:259

Procedure Notes: PM1 Power = 200 mW Refl.Pwr PM3 = -26.92 dB Sim.Temp@SPC = 19.5C Room Temp @ SPC = 20.6C

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

Medium: Validation *HEAD Tissue*; Medium parameters used: $f = 1800$ MHz; $\sigma = 1.37$ mho/m; $\epsilon_r = 38.7$; $\rho = 1000$ 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 14.6.5 (6469)

DASY5, SAM - System Performance Check Template, Rev.2 (12-Sept-11)/Daily SPC Check/Dipole Area Scan (5x15x1):

Measurement grid: dx=10mm, dy=15mm

Maximum value of SAR (measured) = 7.94 mW/g

DASY5, SAM - System Performance Check Template, Rev.2 (12-Sept-11)/Daily SPC Check/0-Degree, 5x5x7 Cube (5x5x7)/Cube

0; Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 77.024 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 13 896 mW/g

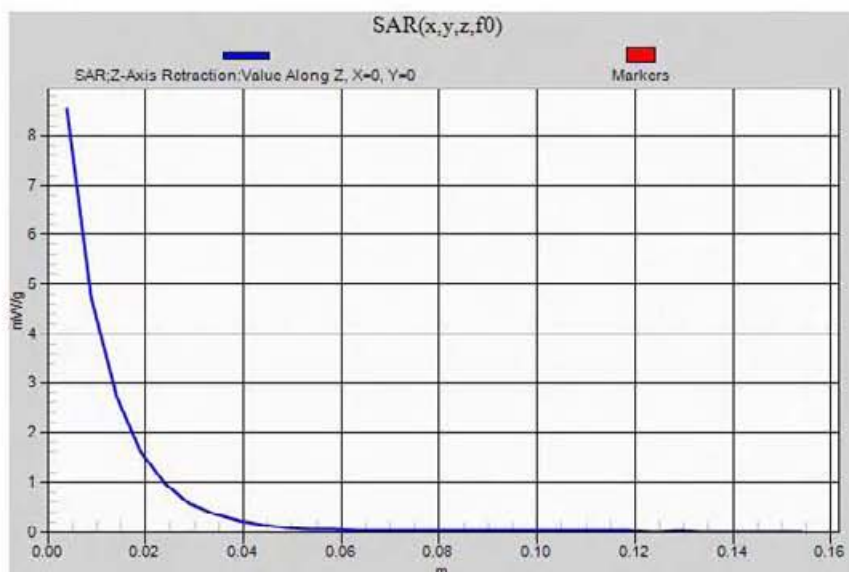
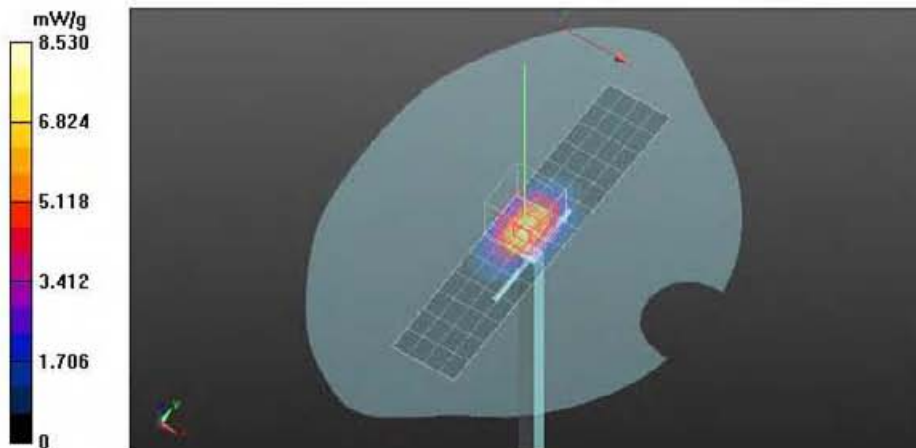
SAR(1 g) = 7.59 mW/g; SAR(10 g) = 4 mW/g

Maximum value of SAR (measured) = 8.50 mW/g

DASY5, SAM - System Performance Check Template, Rev.2 (12-Sept-11)/Daily SPC Check/Z-Axis Retraction (1x1x31):

Measurement grid: dx=20mm, dy=20mm, dz=5mm

Maximum value of SAR (measured) = 8.53 mW/g



Date/Time: 4/17/2012 6:59:29 AM

Test Laboratory: Motorola Mobility - Apr-17-2012 1800 MHz Head

DUT: Dipole 1800 MHz; Type: D1800V2; Serial: D1800V2 - SN: 2D191; FCC ID: IHDT56NG1

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

Sim.Temp@meas = 18.8°C; Sim.Temp@SPC = 18.9°C; Room Temp @ SPC = 20.8°C

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

Medium: Validation *HEAD Tissue*

Medium parameters used: $f = 1800$ MHz; $\sigma = 1.39$ mho/m; $\epsilon_r = 38.6$; $\rho = 1000$ kg/m³

DASY4 Configuration:

- Probe: ES3DV3 - SN3284; ConvF(5.33, 5.33, 5.33); 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 14.6.5 (6469)

DASY5, Triple Flat System Performance Check Template - Rev.3 (19-Sept-11)/Daily SPC Check/Dipole Area Scan (4x15x1):

Measurement grid: dx=15mm, dy=15mm; Maximum value of SAR (measured) = 7.40 mW/g

DASY5, Triple Flat System Performance Check Template - Rev.3 (19-Sept-11)/Daily SPC Check/0-Degree 5x5x7 Cube (5x5x7)/Cube 0:

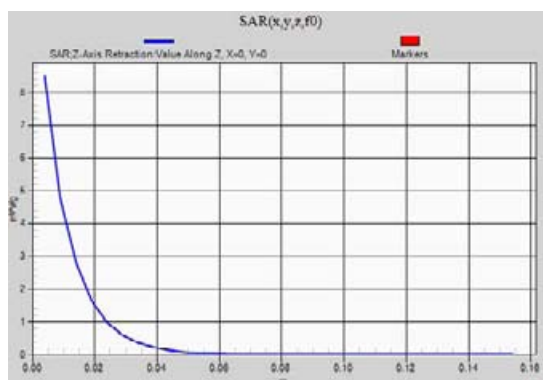
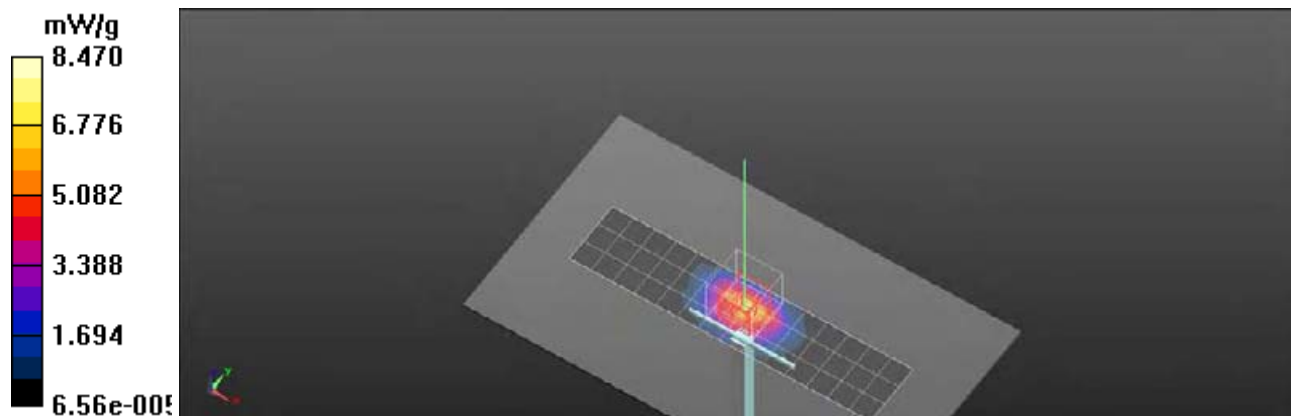
Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 78.373 V/m; Power Drift = -0.02 dB; Peak SAR (extrapolated) = 13.691 mW/g

SAR(1 g) = 7.56 mW/g; SAR(10 g) = 3.98 mW/g; Maximum value of SAR (measured) = 8.50 mW/g

DASY5, Triple Flat System Performance Check Template - Rev.3 (19-Sept-11)/Daily SPC Check/Z-Axis Retraction (1x1x31):

Measurement grid: dx=20mm, dy=20mm, dz=5mm; Maximum value of SAR (measured) = 8.47 mW/g



Date/Time: 4/25/2012 9:33:47 PM

Test Laboratory: Motorola Mobility - Apr-25-2012 1800 MHz Head

DUT: Dipole 1800 MHz; Type: D1800V2; Serial: D1800V2 - SN:2d191; FCC ID: IHDT56NG1

Procedure Notes: 1800 MHz System Performance Check; Dipole Sn# 2d191; Input Power = 200 mW

Sim.Temp@meas = 18.6°C; Sim.Temp@SPC = 20.1°C Room Temp @ SPC = 20.7°C

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

Medium: Validation *HEAD Tissue*

Medium parameters used: $f = 1800$ MHz; $\sigma = 1.38$ mho/m; $\epsilon_r = 38.5$; $\rho = 1000$ kg/m³

DASY4 Configuration:

- Probe: ES3DV3 - SN3284; ConvF(5.33, 5.33, 5.33); Calibrated: 1/10/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1310; Calibrated: 1/11/2012
- Phantom: R#4 Glycol SAM (extended range), Rev.2 (24-Feb-12); Type: SAM v4.0; Serial: TP-1162;
- SEMCAD X Version 14.6.5 (6469)

DASY5, SAM - System Performance Check Template, Rev.2 (12-Sept-11)/Daily SPC Check/Dipole Area Scan (5x15x1):

Measurement grid: dx=10mm, dy=15mm; Maximum value of SAR (measured) = 8.77 mW/g

DASY5, SAM - System Performance Check Template, Rev.2 (12-Sept-11)/Daily SPC Check/0-Degree, 5x5x7 Cube

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

Reference Value = 80.926 V/m; Power Drift = -0.02 dB

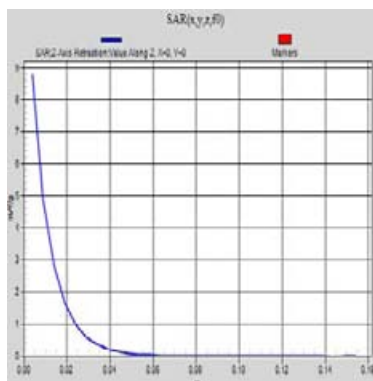
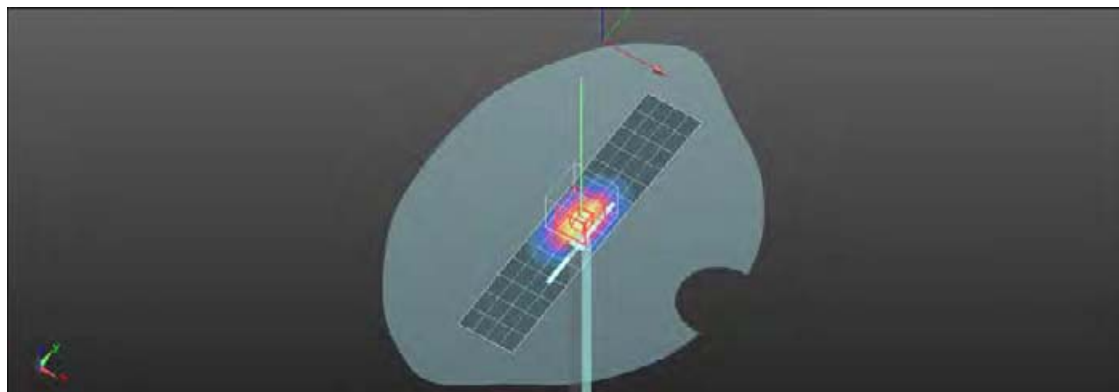
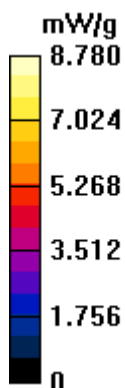
Peak SAR (extrapolated) = 14.257 mW/g

SAR(1 g) = 7.8 mW/g; SAR(10 g) = 4.1 mW/g

DASY5, SAM - System Performance Check Template, Rev.2 (12-Sept-11)/Daily SPC Check/Z-Axis Retraction (1x1x31):

Measurement grid: dx=20mm, dy=20mm, dz=5mm

Maximum value of SAR (measured) = 8.78 mW/g



Test Laboratory: Motorola Mobility - 1800MHz System Performance Check (Head Tissue)

DUT: Dipole 1800 MHz; Type: D1800V2; Serial: D1800V2 - SN:2D191

Procedure Notes: PM1 Power = 200 mW Refl.Pwr PM3 = -21.40 dB Sim.Temp@SPC = 19.2C Room Temp @ SPC = 21.5C

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

Medium: Validation *HEAD Tissue*; Medium parameters used: $f = 1800 \text{ MHz}$; $\sigma = 1.36 \text{ mho/m}$; $\epsilon_r = 39.1$; $\rho = 1000 \text{ kg/m}^3$

DASY4 Configuration:

- Probe: ES3DV3 - SN3284; ConvF(5.33, 5.33, 5.33); Calibrated: 1/10/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1310; Calibrated: 1/11/2012
- Phantom: R#4 Glycol SAM (extended range), Rev.2 (24-Feb-12); Type: SAM v4.0; Serial: TP-1162;
- SEMCAD X Version 14.6.5 (6469)

DASY5, SAM - System Performance Check Template, Rev.2 (12-Sept-11)/Daily SPC Check/Dipole Area Scan (5x15x1):

Measurement grid: $dx=10\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 8.52 mW/g

DASY5, SAM - System Performance Check Template, Rev.2 (12-Sept-11)/Daily SPC Check/0-Degree, 5x5x7 Cube (5x5x7)/Cube

0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 80.430 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 13.859 mW/g

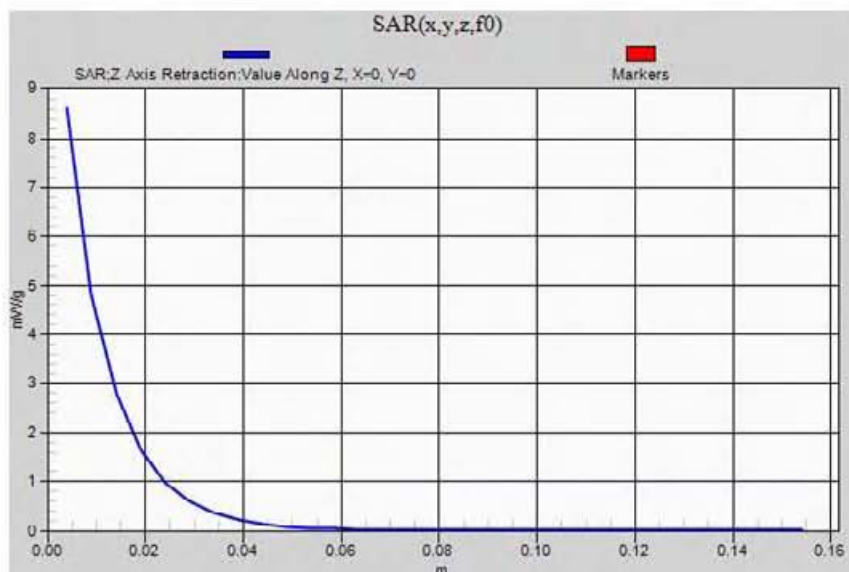
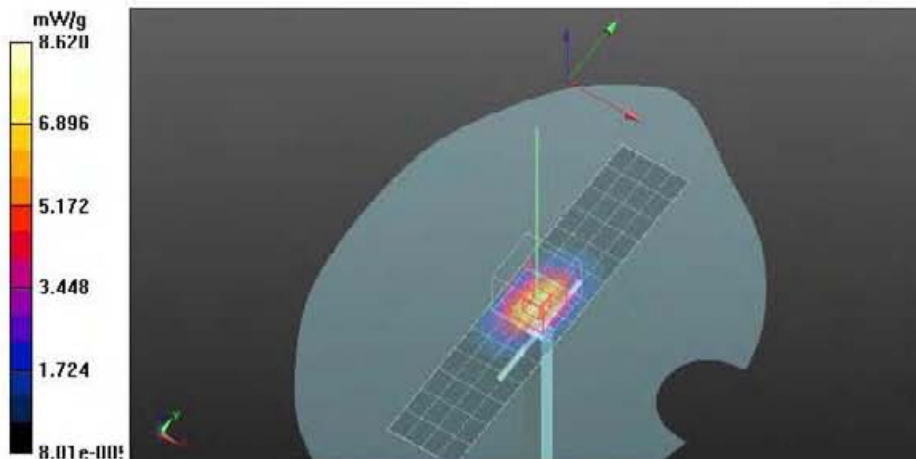
SAR(1 g) = 7.63 mW/g; SAR(10 g) = 4.02 mW/g

Maximum value of SAR (measured) = 8.58 mW/g

DASY5, SAM - System Performance Check Template, Rev.2 (12-Sept-11)/Daily SPC Check/Z-Axis Retraction (1x1x31):

Measurement grid: $dx=20\text{mm}$, $dy=20\text{mm}$, $dz=5\text{mm}$

Maximum value of SAR (measured) = 8.62 mW/g



Test Laboratory: Motorola Mobility - 1800MHz System Performance Check (Head Tissue)

DUT: Dipole 1800 MHz; Type: D1800V2; Serial: D1800V2 - SN:2D191

Procedure Notes: PM1 Power = 200 mW Refl.Pwr PM3 = -21.39 dB [Sim.Temp@SPC](#) = 19.6C Room Temp @ SPC = 21.4C

Communication System: CW - Dipole, Frequency: 1800 MHz, Duty Cycle: 1.1

Medium: Validation *HEAD Tissue*; Medium parameters used: $f = 1800 \text{ MHz}$; $\sigma = 1.38 \text{ mho/m}$; $\epsilon_r = 38.7$; $\rho = 1000 \text{ kg/m}^3$

DASY4 Configuration:

- Probe: ES3DV3 - SN3284; ConvF(5.33, 5.33, 5.33); 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 14.6.5 (6469)

DASY5, Triple Flat System Performance Check Template - Rev.3 (19-Sept-11)/Daily SPC Check/Dipole Area Scan (4x15x1):

Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 5.83 mW/g

DASY5, Triple Flat System Performance Check Template - Rev.3 (19-Sept-11)/Daily SPC Check/0-Degree 5x5x7 Cube

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

Reference Value = 76.847 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 12.992 mW/g

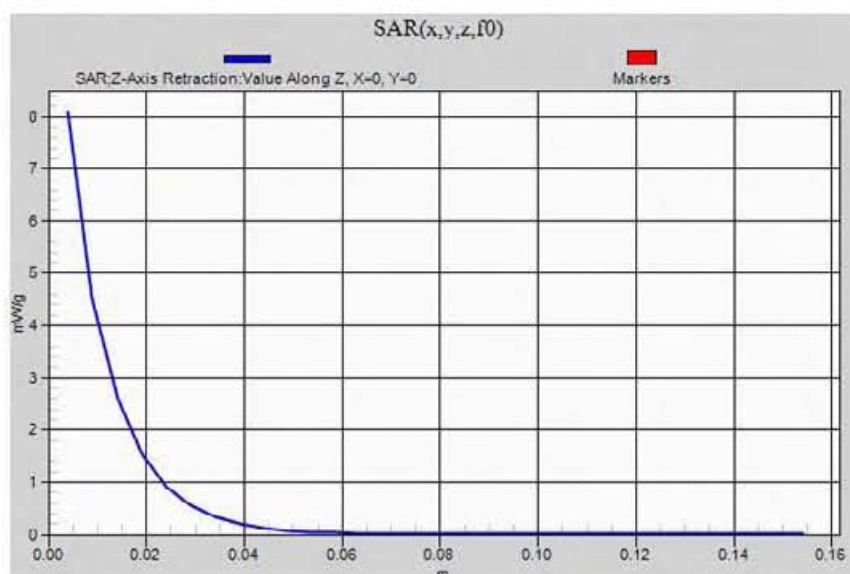
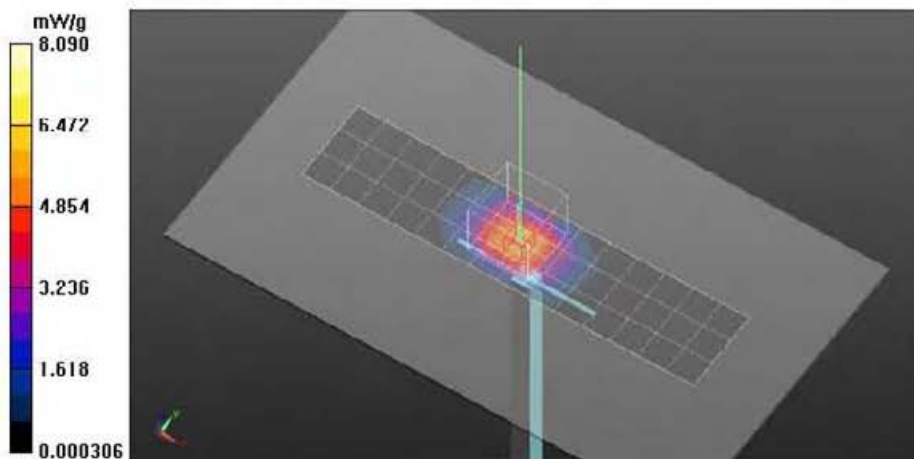
SAR(1 g) = 7.15 mW/g; SAR(10 g) = 3.77 mW/g

Maximum value of SAR (measured) = 8.02 mW/g

DASY5, Triple Flat System Performance Check Template - Rev.3 (19 Sept 11)/Daily SPC Check/Z Axis Retraction (1x1x31):

Measurement grid: $dx=20\text{mm}$, $dy=20\text{mm}$, $dz=5\text{mm}$

Maximum value of SAR (measured) = 8.09 mW/g



Date/Time: 6/26/2012 4:15:06 PM

Test Laboratory: Motorola Mobility - Jun-26-2012 2450 MHz Head

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN: 863; FCC ID: IHDT56NG1

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

Sim.Temp@meas = 21.4°C; Sim.Temp@SPC = 20.0°C; Room Temp @ SPC = 20.8°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; $\epsilon_r = 37.6$; $\rho = 1000$ 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: DAE4 Sn1312; Calibrated: 5/29/2012
- Phantom: R#-3, Triple Flat Phantom 5.1C (Rev.4); Type: QD 000 P51 CA; Serial: n/a;
- ; SEMCAD X Version 14.6.5 (6469)

DASY5, Triple Flat System Performance Check Template - Rev.3 (19-Sept-11)/Daily SPC Check/Dipole Area Scan (4x15x1):

Measurement grid: dx=15mm, dy=15mm; Maximum value of SAR (measured) = 8.90 mW/g

DASY5, Triple Flat System Performance Check Template - Rev.3 (19-Sept-11)/Daily SPC Check/0-Degree 5x5x7 Cube (5x5x7)/Cube 0:

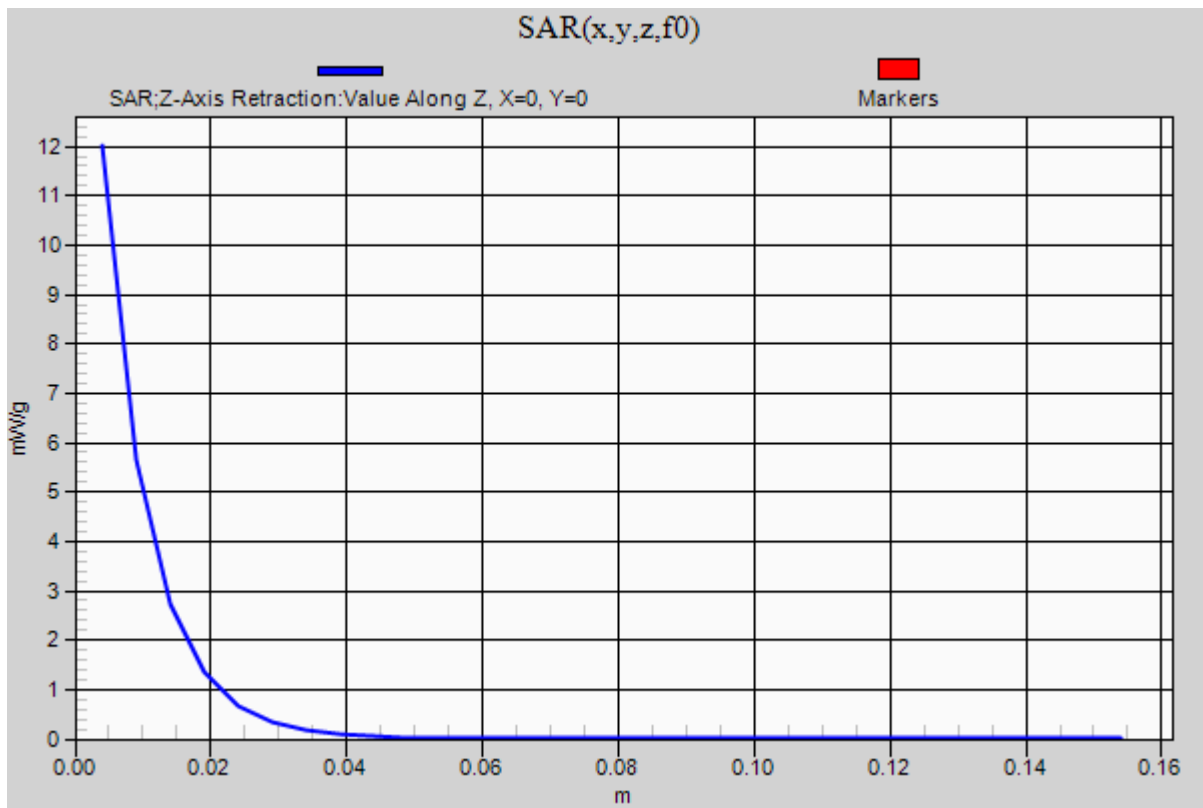
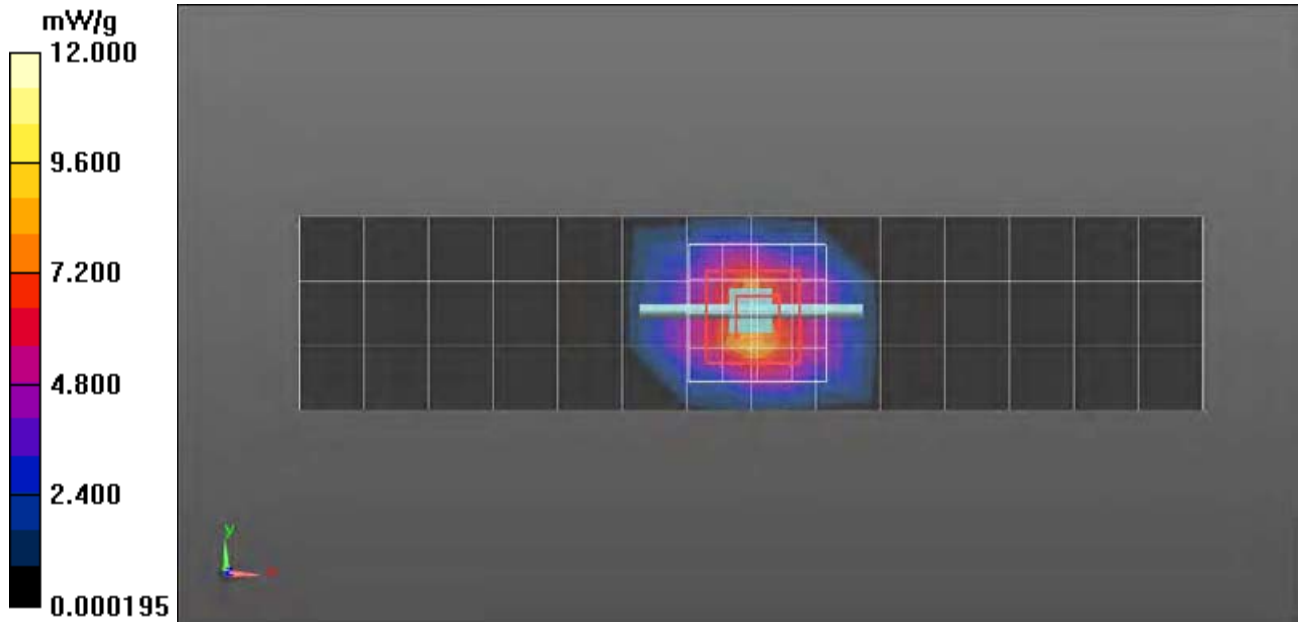
Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 81.501 V/m; Power Drift = -0.10 dB; Peak SAR (extrapolated) = 24.185 mW/g

SAR(1 g) = 11 mW/g; SAR(10 g) = 4.95 mW/g; Maximum value of SAR (measured) = 12.4 mW/g

DASY5, Triple Flat System Performance Check Template - Rev.3 (19-Sept-11)/Daily SPC Check/Z-Axis Retraction (1x1x31):

Measurement grid: dx=20mm, dy=20mm, dz=5mm; Maximum value of SAR (measured) = 12.0 mW/g



Date/Time: 6/27/2012 3:29:43 PM

Test Laboratory: Motorola Mobility - Jun-27-2012 5200 MHz Head

DUT: Dipole 5-6GHz; Type: D5GHzV2; Serial: D5GHzV2 - SN: 1088; FCC ID: IHDT56NG1

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 *HEAD Tissue*

Medium parameters used: $f = 5200$ MHz; $\sigma = 4.58$ mho/m; $\epsilon_r = 35.4$; $\rho = 1000$ 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: DAE4 Sn1312; Calibrated: 5/29/2012
- Phantom: R#3 5 GHz HEAD SAM (extended range), Rev.2 (24-Feb-12); Type: SAM v4.0; Serial: TP-1106;
- ; SEMCAD X Version 14.6.5 (6469)

DASY5 - 5-6GHz, SAM System Performance Check Template - Rev.3 (15-may-12)/Daily SPC Check/Dipole Area Scan (5x22x1):

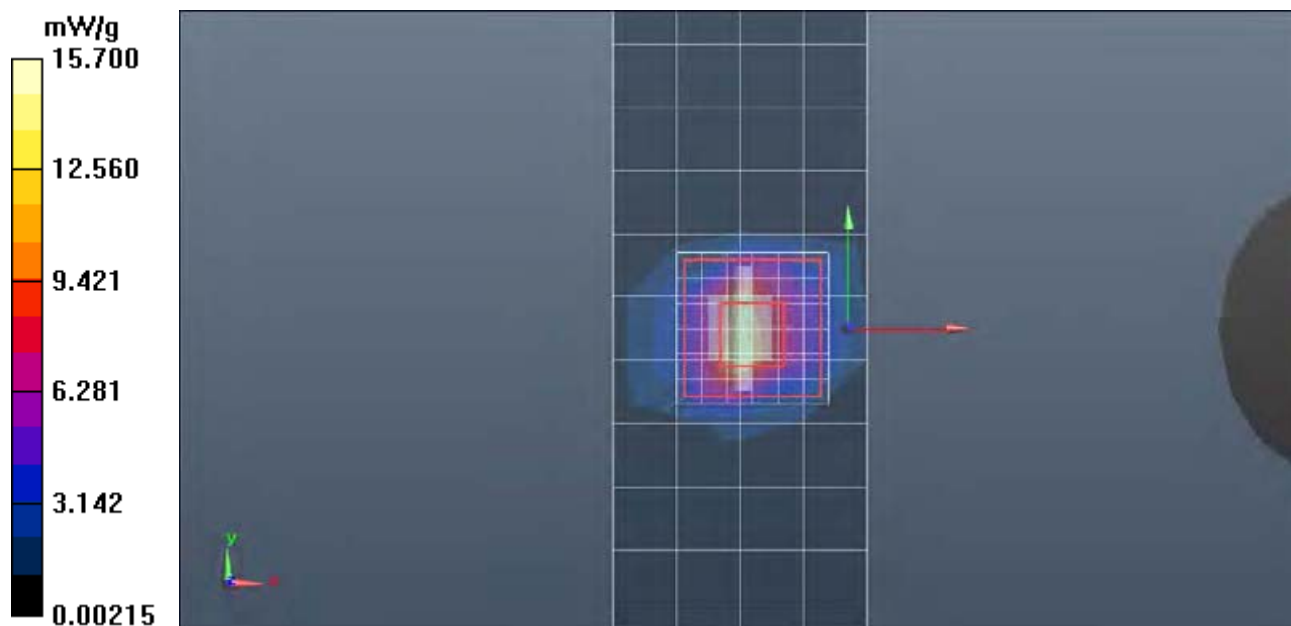
Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 11.8 mW/g

DASY5 - 5-6GHz, SAM System Performance Check Template - Rev.3 (15-may-12)/Daily SPC Check/0-Degree, 7x7x12 Cube (7x7x6)/Cube 0:

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

Reference Value = 61.862 V/m; Power Drift = -0.10 dB; Peak SAR (extrapolated) = 29.489 mW/g

SAR(1 g) = 7.46 mW/g; SAR(10 g) = 2.11 mW/g; Maximum value of SAR (measured) = 15.7 mW/g



Date/Time: 6/28/2012 11:34:02 AM

Test Laboratory: Motorola Mobility - Jun-28-2012 5800 MHz Head

DUT: Dipole 5-6GHz; Type: D5GHzV2; Serial: D5GHzV2 - SN:1088; FCC ID: IHDT56NG1

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

Sim.Temp@meas = 19.6°C; Sim.Temp@SPC = 19.8°C; Room Temp @ SPC = 21.1°C

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

Medium: Validation *HEAD Tissue*

Medium parameters used: $f = 5800$ MHz; $\sigma = 5.2$ mho/m; $\epsilon_r = 34.5$; $\rho = 1000$ kg/m³

DASY4 Configuration:

- Probe: EX3DV4 - SN3728; ConvF(4.23, 4.23, 4.23); Calibrated: 4/24/2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1312; Calibrated: 5/29/2012
- Phantom: R#3 5 GHz HEAD SAM (extended range), Rev.2 (24-Feb-12); Type: SAM v4.0; Serial: TP-1106;
- ; SEMCAD X Version 14.6.5 (6469)

DASY5 - 5-6GHz, SAM System Performance Check Template - Rev.3 (15-may-12)/Daily SPC Check/Dipole Area Scan (5x22x1):

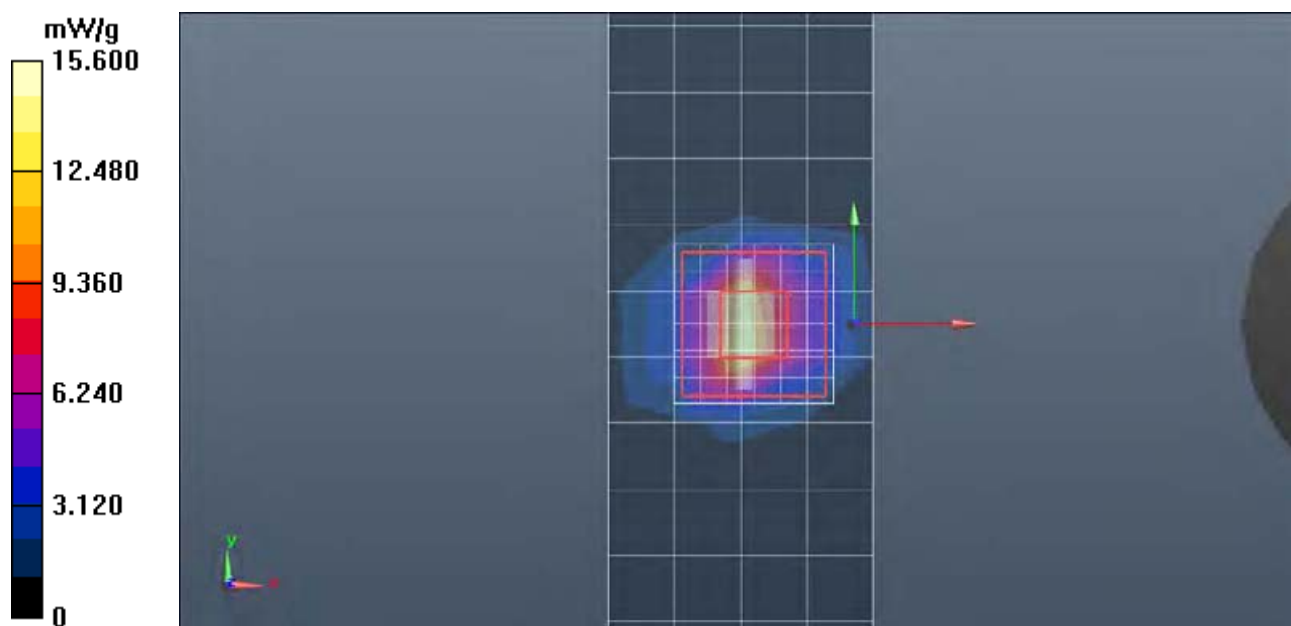
Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 11.9 mW/g

DASY5 - 5-6GHz, SAM System Performance Check Template - Rev.3 (15-may-12)/Daily SPC Check/0-Degree, 7x7x12 Cube (7x7x6)/Cube 0:

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

Reference Value = 58.396 V/m; Power Drift = -0.07 dB; Peak SAR (extrapolated) = 30.853 mW/g

SAR(1 g) = 7.25 mW/g; SAR(10 g) = 2.05 mW/g; Maximum value of SAR (measured) = 15.6 mW/g



Date/Time: 7/6/2012 9:36:35 AM

Test Laboratory: Motorola Mobility - Jul-06-2012 5800 MHz Head

DUT: Dipole 5-6GHz; Type: D5GHzV2; Serial: D5GHzV2 - SN 1088; FCC ID: IHDT56NG1

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

Sim.Temp@meas = 19.0°C; Sim.Temp@SPC = 19.0°C; Room Temp @ SPC = 20.8°C

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

Medium: Validation *HEAD Tissue* SPEAG

Medium parameters used: $f = 5800$ MHz; $\sigma = 5.13$ mho/m; $\epsilon_r = 33.9$; $\rho = 1000$ kg/m³

DASY4 Configuration:

- Probe: EX3DV4 - SN3728; ConvF(4.23, 4.23, 4.23); Calibrated: 4/24/2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1312; Calibrated: 5/29/2012
- Phantom: R#3 5 GHz HEAD SAM (extended range), Rev.2 (24-Feb-12); Type: SAM v4.0; Serial: TP-1106;
- ; SEMCAD X Version 14.6.5 (6469)

DASY5 - 5-6GHz, SAM System Performance Check Template - Rev.3 (15-may-12)/Daily SPC Check/Dipole Area Scan (5x22x1):

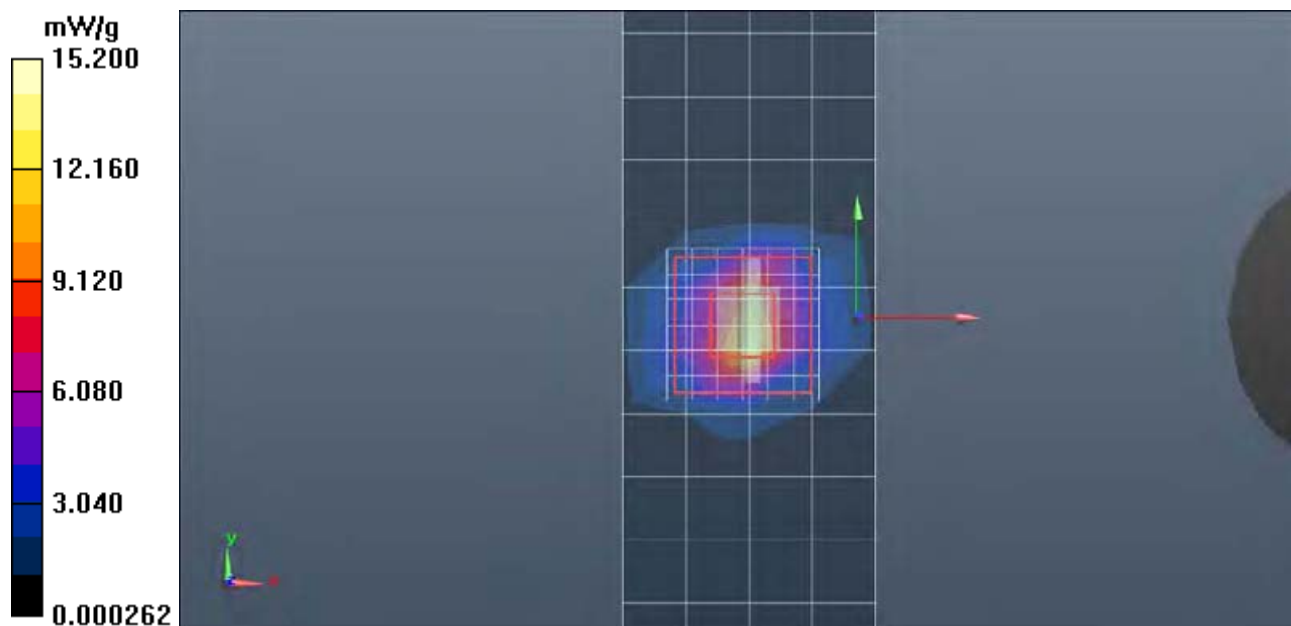
Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 12.3 mW/g

DASY5 - 5-6GHz, SAM System Performance Check Template - Rev.3 (15-may-12)/Daily SPC Check/0-Degree, 7x7x12 Cube (7x7x6)/Cube 0:

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

Reference Value = 59.743 V/m; Power Drift = -0.17 dB; Peak SAR (extrapolated) = 30.312 mW/g

SAR(1 g) = 7.11 mW/g; SAR(10 g) = 2.02 mW/g; Maximum value of SAR (measured) = 15.2 mW/g



System Accuracy Verification Measurements for Body SAR Measurements

Test Laboratory: Motorola Mobility - 835MHz System Performance Check (Body Tissue)

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:4D128

Procedure Notes: PM1 Power -200 mW RefLPwr PM3 - -19.20dB Sim Temp@SPC -18.6C Room Temp @ SPC - 20.2C

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

Medium: Validation *BODY Tissue* ; Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 1 \text{ mho/m}$; $\epsilon_r = 53.5$; $\rho = 1000 \text{ kg/m}^3$

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 14.6.5 (6469)

DASY5, Triple Flat System Performance Check Template - Rev.3 (19-Sept-11)/Daily SPC Check/Dipole Area Scan (4x15x1):

Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 1.98 mW/g

DASY5, Triple Flat System Performance Check Template - Rev.3 (19-Sept-11)/Daily SPC Check/0-Degree 5x5x7 Cube

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

Reference Value = 48.949 V/m; Power Drift = -0.27 dB

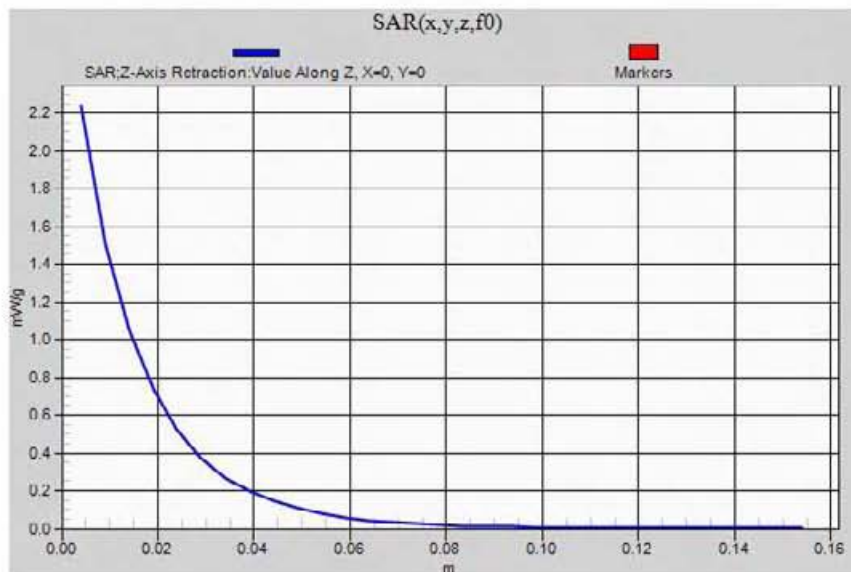
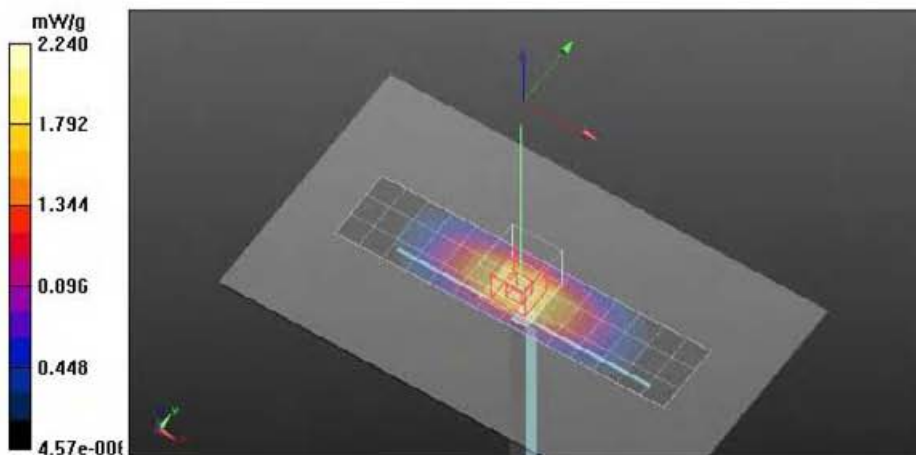
Peak SAR (extrapolated) = 3 102 mW/g

SAR(1 g) = 2.07 mW/g; SAR(10 g) = 1.35 mW/g

Maximum value of SAR (measured) = 2.24 mW/g

DASY5, Triple Flat System Performance Check Template - Rev.3 (19-Sept-11)/Daily SPC Check/Z-Axis Retraction (1x1x31):

Measurement grid: $dx=20\text{mm}$, $dy=20\text{mm}$, $dz=5\text{mm}$



Test Laboratory: Motorola Mobility - 835MHz System Performance Check (Body Tissue)

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:4D128

Procedure Notes: PM1 Power = 200 mW Refl.Pwr PM3 = -22.20 dB [Sim.Temp@SPC](#) = 18.8C Room Temp @ SPC = 21.1C

Communication System: CW - Dipole, Frequency: 835 MHz, Duty Cycle: 1.1

Medium: Validation *BODY Tissue*; Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.99 \text{ mho/m}$; $\epsilon_r = 54.7$; $\rho = 1000 \text{ kg/m}^3$

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 14.6.5 (6469)

DASY5, Triple Flat System Performance Check Template - Rev.3 (19-Sept-11)/Daily SPC Check/Dipole Area Scan (4x15x1):

Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 2.15 mW/g

DASY5, Triple Flat System Performance Check Template - Rev.3 (19-Sept-11)/Daily SPC Check/0-Degree 5x5x7 Cube

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

Reference Value = 46.682 V/m; Power Drift = -0.04 dB

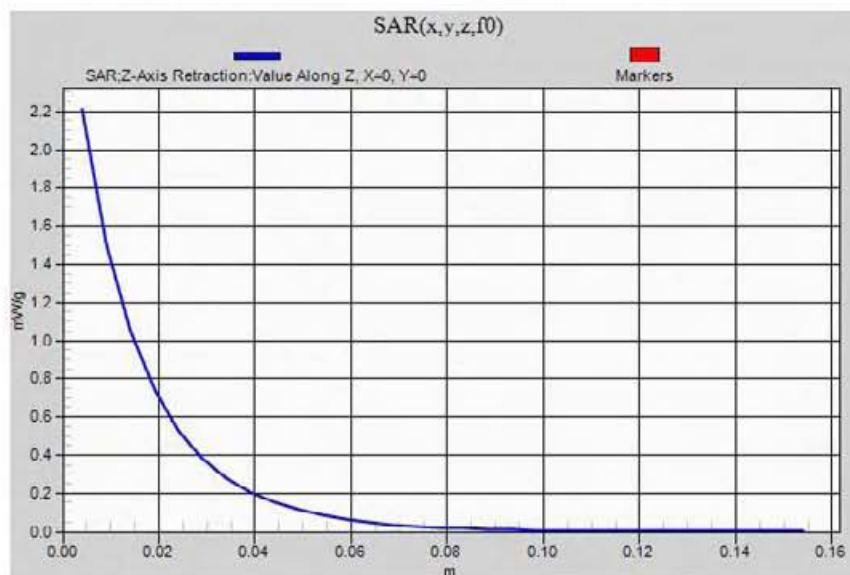
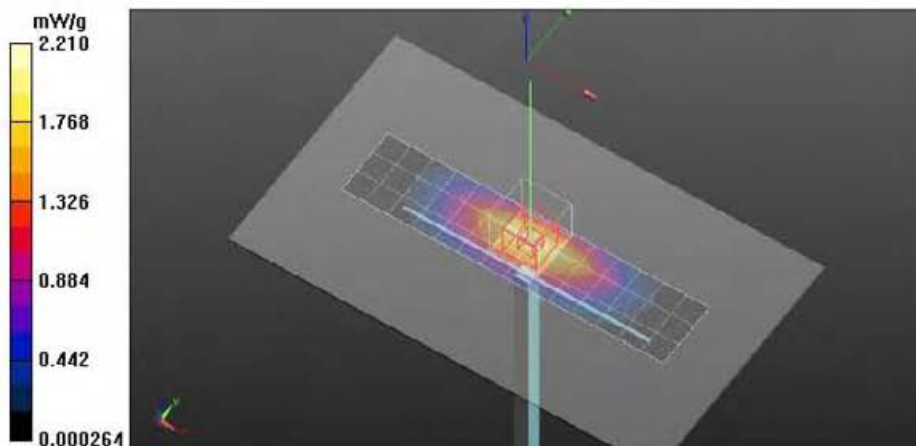
Peak SAR (extrapolated) = 3.025 mW/g

SAR(1 g) = 2.04 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 - Rev.3 (19 Sept 11)/Daily SPC Check/Z Axis Retraction (1x1x31):

Measurement grid: $dx=20\text{mm}$, $dy=20\text{mm}$, $dz=5\text{mm}$



Test Laboratory: Motorola Mobility - 835MHz System Performance Check (Body Tissue)

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:4D128

Procedure Notes: PM1 Power = 200 mW Refl.Pwr PM3 = -23.2dB Sim.Temp@SPC = 18.8°C Room Temp @ SPC = 21.1°C

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

Medium: Validation *BODY Tissue*; Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 1 \text{ mho/m}$; $\epsilon_r = 55.1$; $\rho = 1000 \text{ kg/m}^3$

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 14.6.5 (6469)

DASY5, Triple Flat System Performance Check Template - Rev.3 (19-Sept-11)/Daily SPC Check/Dipole Area Scan (4x15x1):

Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 2.01 mW/g

DASY5, Triple Flat System Performance Check Template - Rev.3 (19-Sept-11)/Daily SPC Check/0-Degree 5x5x7 Cube

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

Reference Value = 48.803 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 3.056 mW/g

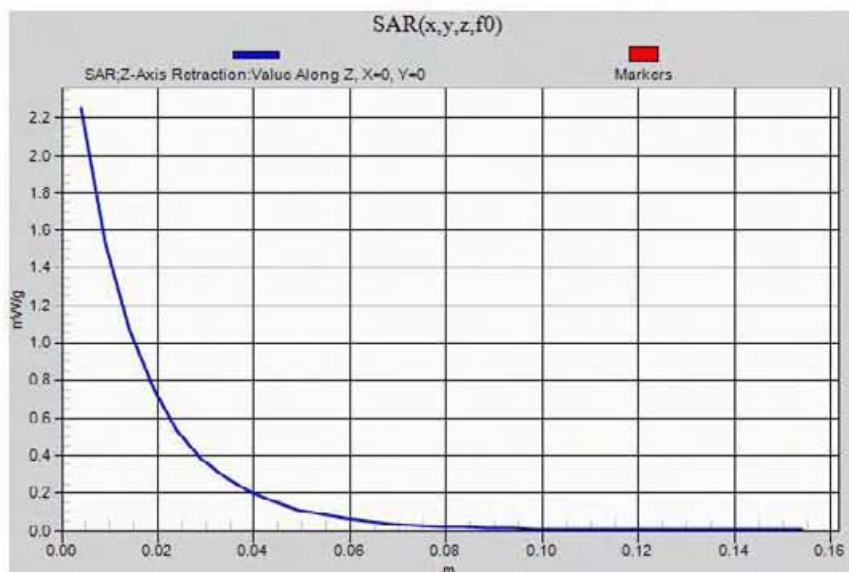
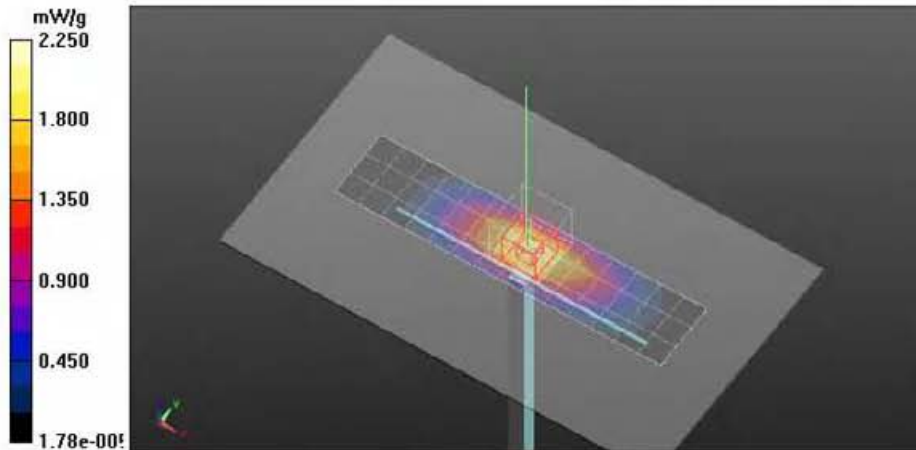
SAR(1 g) = 2.07 mW/g; SAR(10 g) = 1.36 mW/g

Maximum value of SAR (measured) = 2.22 mW/g

DASY5, Triple Flat System Performance Check Template - Rev.3 (19-Sept-11)/Daily SPC Check/Z-Axis Retraction (1x1x31):

Measurement grid: $dx=20\text{mm}$, $dy=20\text{mm}$, $dz=5\text{mm}$

Maximum value of SAR (measured) = 2.25 mW/g



Test Laboratory: Motorola Mobility - 835MHz System Performance Check (Body Tissue)

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:4D128

Procedure Notes: PM1 Power = 200 mW Refl.Pwr PM3 = -22.3 dB [Sim.Temp@SPC](#) = 19°C Room Temp @ SPC = 20.9°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;
- SEMCAD X Version 14.6.5 (6469)

DASY5, Triple Flat System Performance Check Template - Rev.3 (19-Sept-11)/Daily SPC Check/Dipole Area Scan (4x15x1):

Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 1.95 mW/g

DASY5, Triple Flat System Performance Check Template - Rev.3 (19-Sept-11)/Daily SPC Check/0-Degree 5x5x7 Cube

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

Reference Value = 47.383 V/m; Power Drift = -0.01 dB

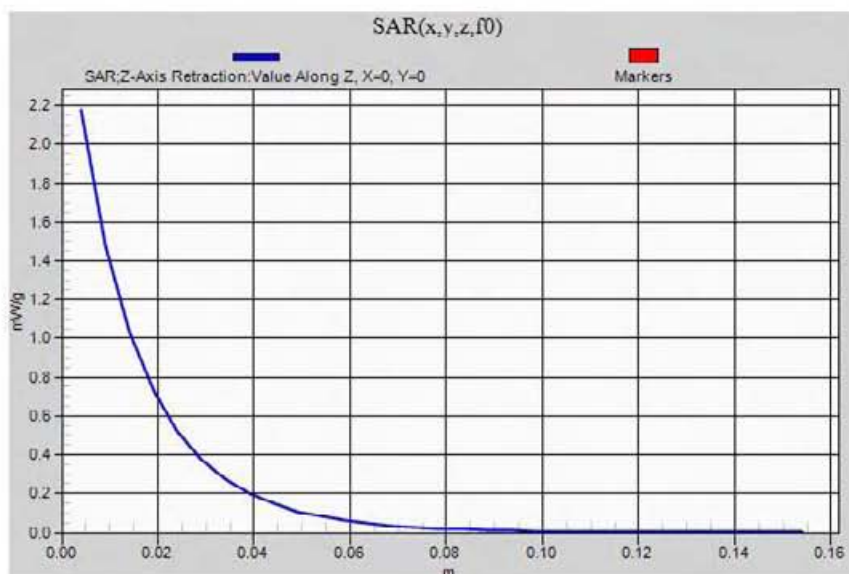
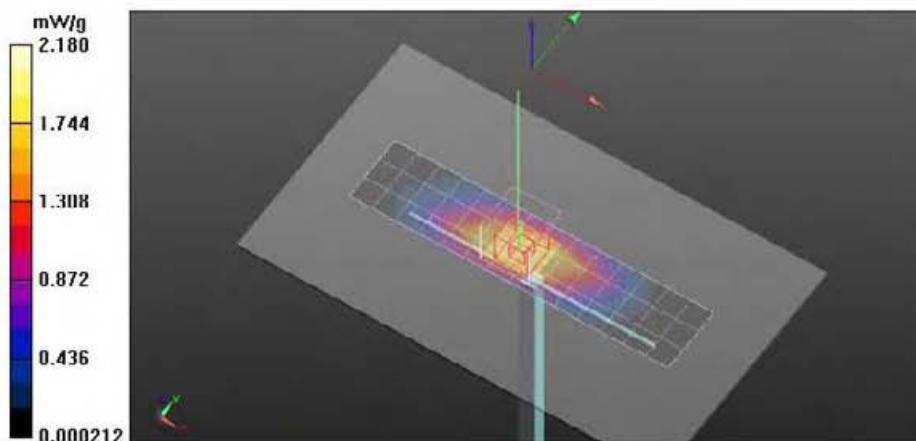
Peak SAR (extrapolated) = 2.985 mW/g

SAR(1 g) = 2.02 mW/g; SAR(10 g) = 1.33 mW/g

Maximum value of SAR (measured) = 2.18 mW/g

DASY5, Triple Flat System Performance Check Template - Rev.3 (19-Sept-11)/Daily SPC Check/Z-Axis Retraction (1x1x31):

Measurement grid: $dx=20\text{mm}$, $dy=20\text{mm}$, $dz=5\text{mm}$



Date/Time: 5/19/2012 7:47:48 AM

Test Laboratory: Motorola Mobility - May-19-2012 835 MHz Body

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN: 4d129; FCC ID: IHDT56NG1

Procedure Notes: 835MHz System Performance Check; Dipole Sn# 4d129; Input Power = 200 mW

Sim.Temp@meas = 19.1°C; Sim.Temp@SPC = 19.0°C; Room Temp @ SPC = 21.7°C

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

Medium: Validation *BODY Tissue*

Medium parameters used: $f = 835$ MHz; $\sigma = 0.99$ mho/m; $\epsilon_r = 53.8$; $\rho = 1000$ kg/m³

DASY4 Configuration:

- Probe: ES3DV3 - SN3284; ConvF(6.28, 6.28, 6.28); 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 14.6.5 (6469)

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

Measurement grid: dx=15mm, dy=15mm; Maximum value of SAR (measured) = 1.99 mW/g

DASY5, Triple Flat System Performance Check Template - 0-Degree 5x5x7 Cube

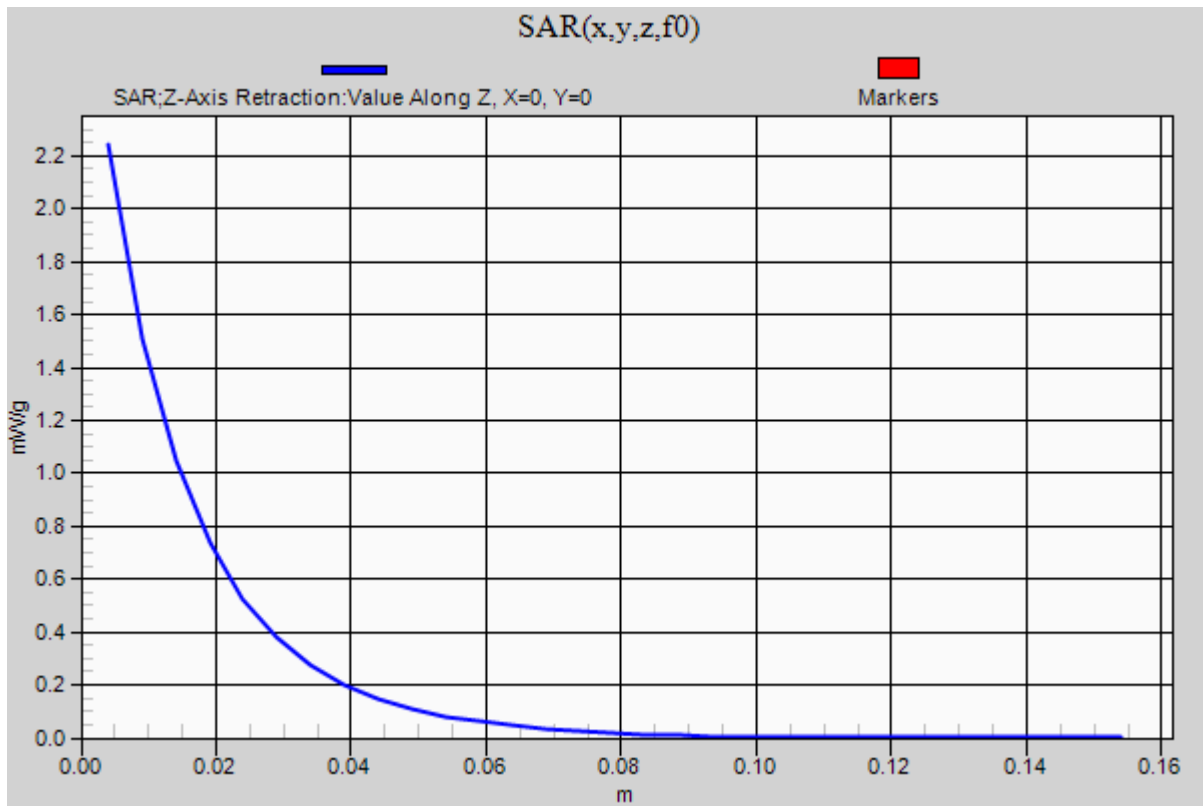
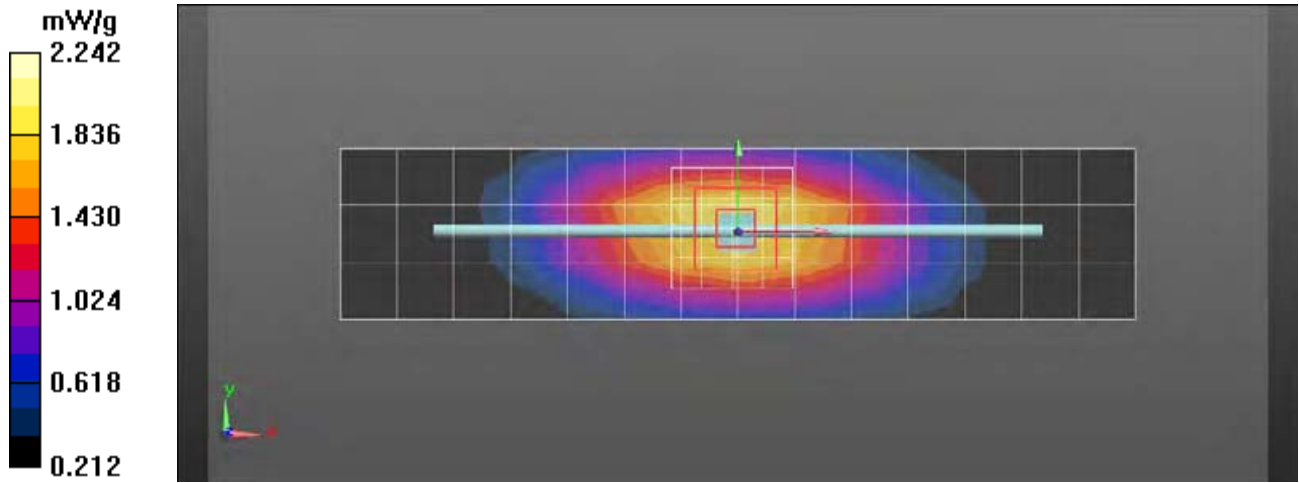
(5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 47.988 V/m; Power Drift = -0.02 dB; Peak SAR (extrapolated) = 3.103 mW/g

SAR(1 g) = 2.07 mW/g; SAR(10 g) = 1.36 mW/g; Maximum value of SAR (measured) = 2.24 mW/g

DASY5, Triple Flat System Performance Check Template - Z-Axis Retraction (1x1x31):

Measurement grid: dx=20mm, dy=20mm, dz=5mm;



Date/Time: 6/27/2012 2:55:17 PM

Test Laboratory: Motorola Mobility - Jun-27-2012 835 MHz Body**DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN: 436TR; FCC ID: IHDT56NG1**

Procedure Notes: 835 MHz System Performance Check; Dipole Sn# 436TR; Input Power = 200 mW

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

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

Medium: Validation *BODY Tissue*

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.99 \text{ mho/m}$; $\epsilon_r = 55.8$; $\rho = 1000 \text{ kg/m}^3$

DASY4 Configuration:

- Probe: ES3DV3 - SN3115; ConvF(5.89, 5.89, 5.89); 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 14.6.5 (6469)

DASY5, Triple Flat System Performance Check Template - Rev.3 (19-Sept-11)/Daily SPC Check/Dipole Area Scan (4x15x1):

Measurement grid: dx=15mm, dy=15mm; Maximum value of SAR (measured) = 1.95 mW/g

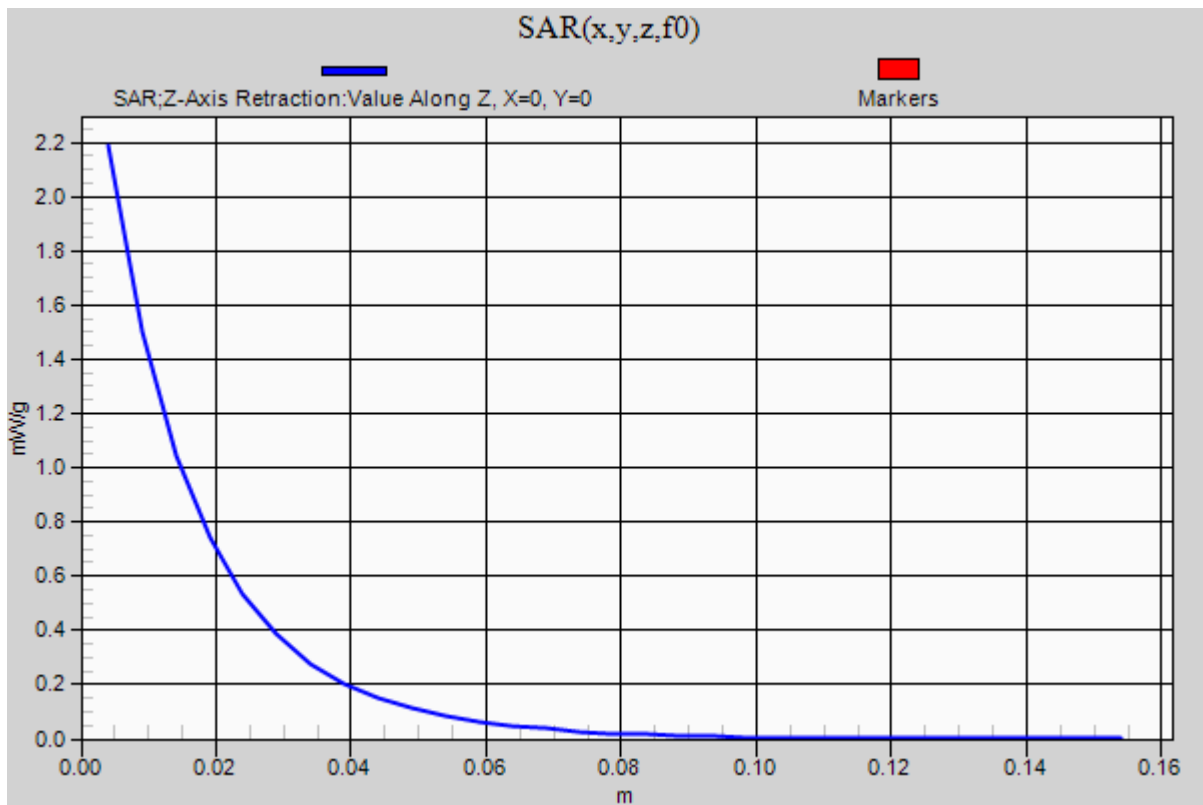
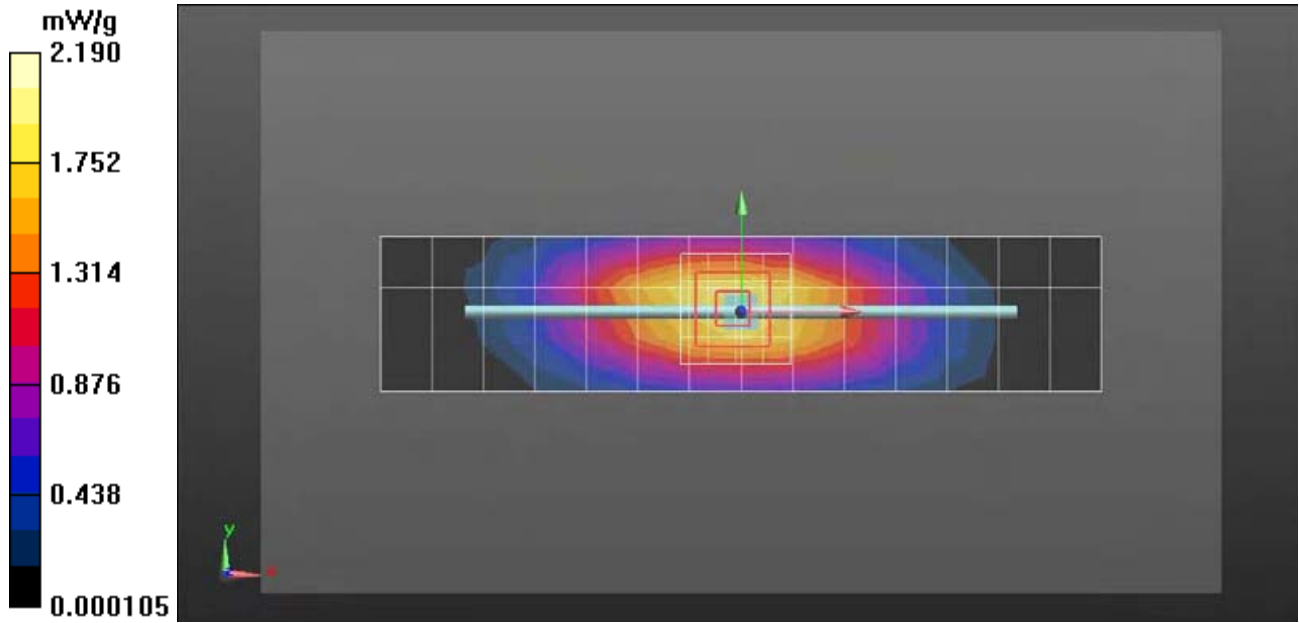
DASY5, Triple Flat System Performance Check Template - Rev.3 (19-Sept-11)/Daily SPC Check/0-Degree 5x5x7 Cube (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 47.691 V/m; Power Drift = -0.00 dB; Peak SAR (extrapolated) = 2.925 mW/g

SAR(1 g) = 2.02 mW/g; SAR(10 g) = 1.33 mW/g; Maximum value of SAR (measured) = 2.18 mW/g**DASY5, Triple Flat System Performance Check Template - Rev.3 (19-Sept-11)/Daily SPC Check/Z-Axis Retraction (1x1x31):**

Measurement grid: dx=20mm, dy=20mm, dz=5mm; Maximum value of SAR (measured) = 2.19 mW/g



Test Laboratory: Motorola Mobility - 1800 MHz System Performance Check (Body Tissue)

DUT: Dipole 1800 MHz; Type: D1800V2; Serial: D1800V2 - SN:259

Procedure Notes: PM1 Power = 200 mW Refl.Pwr PM3 = -23.32 dB [Sim.Temp@SPC](#) = 19.2C Room Temp @ SPC = 20.7C

Communication System: CW - Dipole, Frequency: 1800 MHz, Duty Cycle: 1:1

Medium: Validation *BODY Tissue*; Medium parameters used: $f = 1800 \text{ MHz}$; $\sigma = 1.48 \text{ mho/m}$; $\epsilon_r = 53$; $\rho = 1000 \text{ kg/m}^3$

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 14.6.5 (6469)

DASY5, Triple Flat System Performance Check Template - Rev.3 (19-Sept-11)/Daily SPC Check/Dipole Area Scan (4x15x1):

Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 6.62 mW/g

DASY5, Triple Flat System Performance Check Template - Rev.3 (19-Sept-11)/Daily SPC Check/0-Degree 5x5x7 Cube

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

Reference Value = 78.387 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 14.114 mW/g

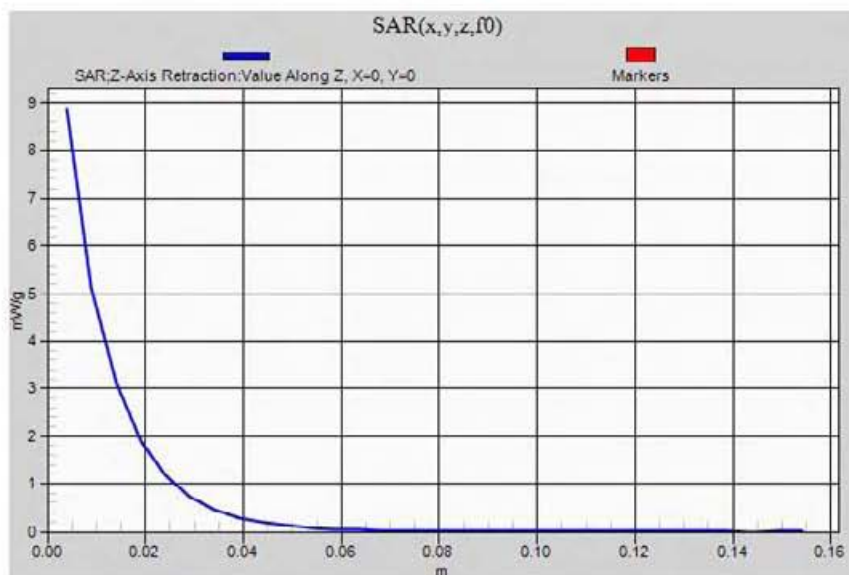
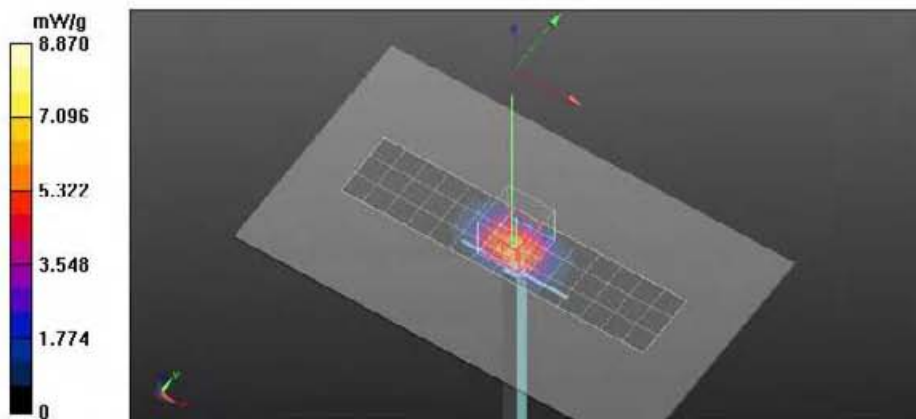
SAR(1 g) = 7.94 mW/g; SAR(10 g) = 4.23 mW/g

Maximum value of SAR (measured) = 8.86 mW/g

DASY5, Triple Flat System Performance Check Template - Rev.3 (19 Sept 11)/Daily SPC Check/Z Axis Retraction (1x1x31):

Measurement grid: $dx=20\text{mm}$, $dy=20\text{mm}$, $dz=5\text{mm}$

Maximum value of SAR (measured) = 8.87 mW/g



Test Laboratory: Motorola Mobility - 1800MHz System Performance Check (Body Tissue)

DUT: Dipole 1800 MHz; Type: D1800V2; Serial: D1800V2 - SN:259

Procedure Notes: PM1 Power = 200 mW Refl.Pwr PM3 = -22.dB Sim.Temp@SPC = 19.3°C Room Temp @ SPC = 21.4°C

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

Medium: Validation *BODY Tissue*; Medium parameters used: $f = 1800 \text{ MHz}$; $\sigma = 1.5 \text{ mho/m}$; $\epsilon_r = 52.3$; $\rho = 1000 \text{ kg/m}^3$

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 14.6.5 (6469)

DASY5, Triple Flat System Performance Check Template - Rev.3 (19-Sept-11)/Daily SPC Check/Dipole Area Scan (4x15x1):

Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 6.35 mW/g

DASY5, Triple Flat System Performance Check Template - Rev.3 (19-Sept-11)/Daily SPC Check/0-Degree 5x5x7 Cube

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

Reference Value = 77.972 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 13.940 mW/g

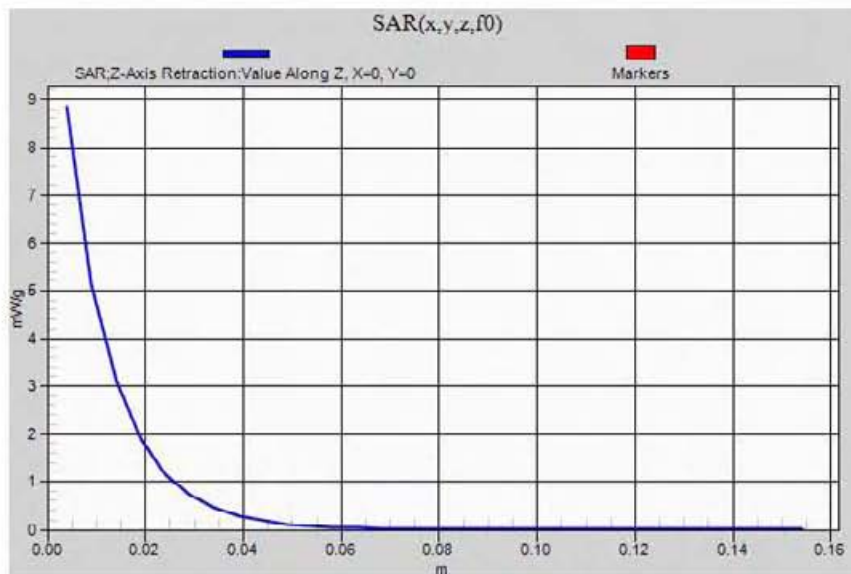
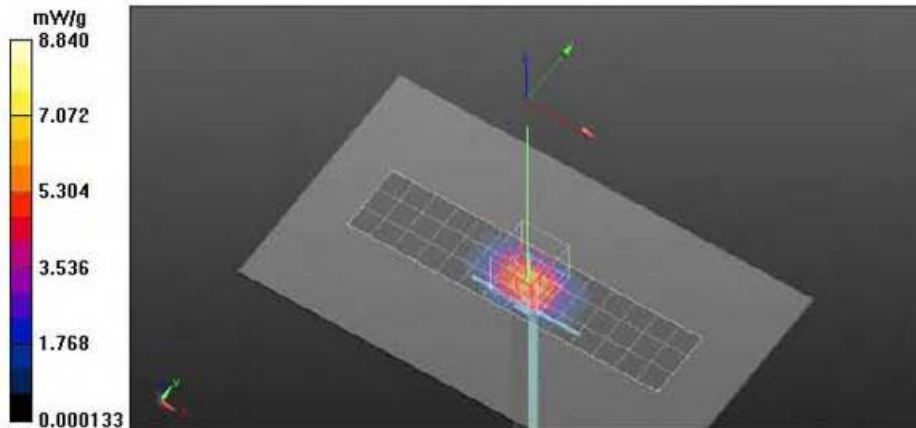
SAR(1 g) = 7.88 mW/g; SAR(10 g) = 4.2 mW/g

Maximum value of SAR (measured) = 8.85 mW/g

DASY5, Triple Flat System Performance Check Template - Rev.3 (19-Sept-11)/Daily SPC Check/Z-Axis Retraction (1x1x31):

Measurement grid: $dx=20\text{mm}$, $dy=20\text{mm}$, $dz=5\text{mm}$

Maximum value of SAR (measured) = 8.84 mW/g



Test Laboratory: Motorola Mobility - 1800MHz System Performance Check (Body Tissue)

DUT: Dipole 1800 MHz; Type: D1800V2; Serial: D1800V2 - SN:259

Procedure Notes: PM1 Power = 200 mW Refl.Pwr PM3 = -19.62 dB Sim.Temp@SPC = 19.9 Room Temp @ SPC = 20.9

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

Medium: Validation *BODY Tissue*; Medium parameters used: $f = 1800 \text{ MHz}$; $\sigma = 1.49 \text{ mho/m}$; $\epsilon_r = 53.5$; $\rho = 1000 \text{ kg/m}^3$

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 14.6.5 (6469)

DASY5, Triple Flat System Performance Check Template - Rev.3 (19-Sept-11)/Daily SPC Check/Dipole Area Scan (4x15x1):

Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 7.50 mW/g

DASY5, Triple Flat System Performance Check Template - Rev.3 (19-Sept-11)/Daily SPC Check/0-Degree 5x5x7 Cube

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

Reference Value = 76.347 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 13 856 mW/g

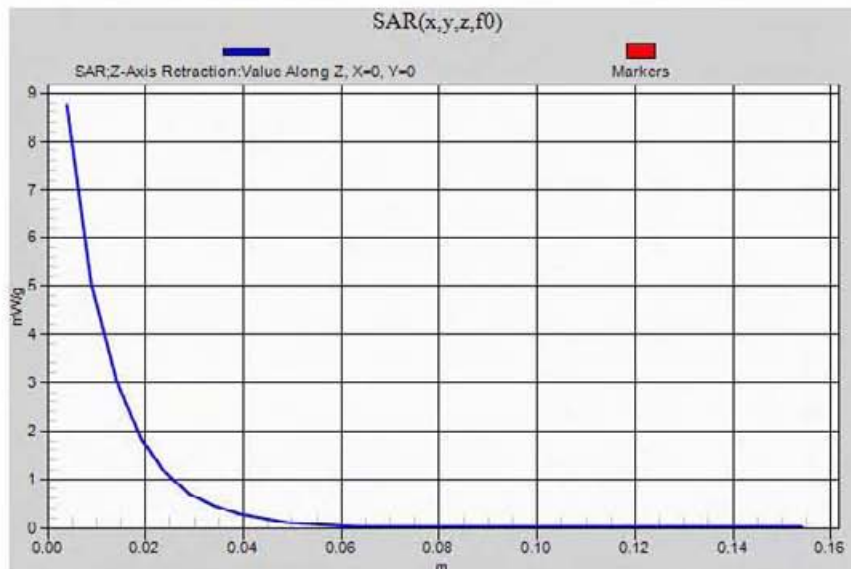
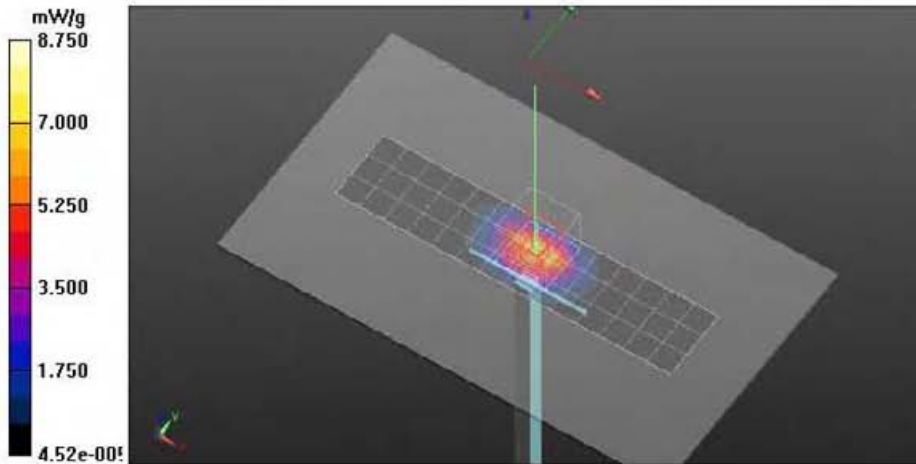
SAR(1 g) = 7.78 mW/g; SAR(10 g) = 4.14 mW/g

Maximum value of SAR (measured) = 8.69 mW/g

DASY5, Triple Flat System Performance Check Template - Rev.3 (19-Sept-11)/Daily SPC Check/Z-Axis Retraction (1x1x31):

Measurement grid: $dx=20\text{mm}$, $dy=20\text{mm}$, $dz=5\text{mm}$

Maximum value of SAR (measured) = 8.75 mW/g



Test Laboratory: Motorola Mobility - 1800 MHz System Performance Check (Body Tissue)

DUT: Dipole 1800 MHz; Type: D1800V2; Serial: D1800V2 - SN:2D190

Procedure Notes: PM1 Power = 200 mW Refl.Pwr PM3 = -17.97 dB [Sim Temp@SPC](#) = 18.9°C Room Temp @ SPC = 21.3°C

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

Medium: Validation *BODY Tissue*; Medium parameters used: $f = 1800 \text{ MHz}$; $\sigma = 1.49 \text{ mho/m}$; $\epsilon_r = 51.7$; $\rho = 1000 \text{ kg/m}^3$

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;
- SEMCAD X Version 14.6.5 (6469)

DASY5, Triple Flat System Performance Check Template - Rev.3 (19-Sept-11)/Daily SPC Check/Dipole Area Scan (4x15x1):

Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 6.55 mW/g

DASY5, Triple Flat System Performance Check Template - Rev.3 (19-Sept-11)/Daily SPC Check/0-Degree 5x5x7 Cube

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

Reference Value = 76.421 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 13.307 mW/g

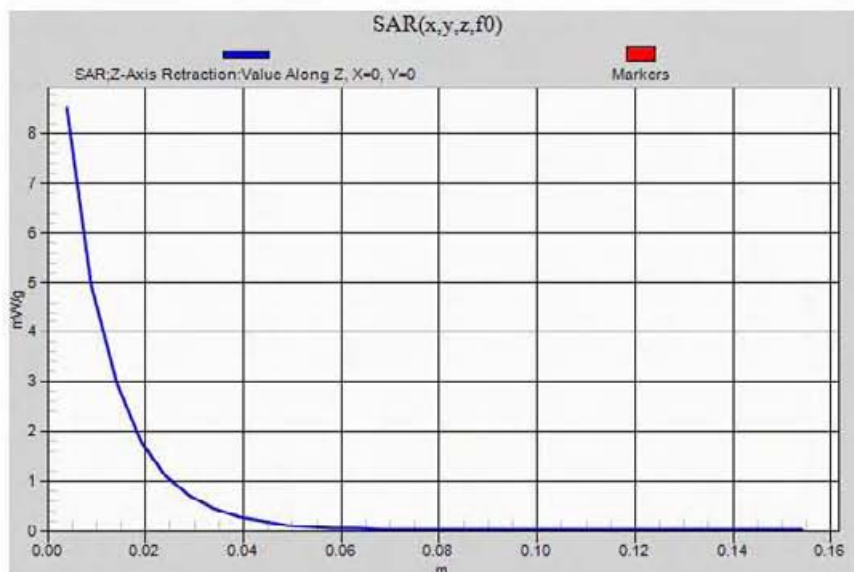
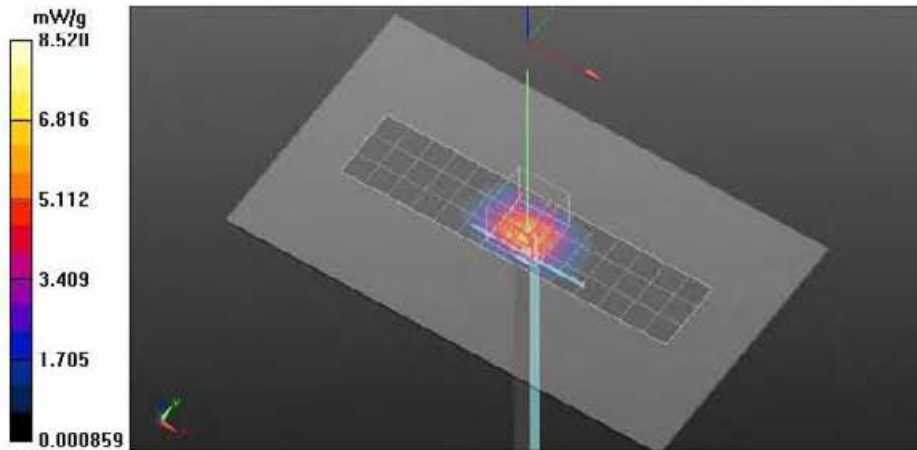
SAR(1 g) = 7.56 mW/g; SAR(10 g) = 4.02 mW/g

Maximum value of SAR (measured) = 8.51 mW/g

DASY5, Triple Flat System Performance Check Template - Rev.3 (19-Sept-11)/Daily SPC Check/Z-Axis Retraction (1x1x31):

Measurement grid: $dx=20\text{mm}$, $dy=20\text{mm}$, $dz=5\text{mm}$

Maximum value of SAR (measured) = 8.52 mW/g



Test Laboratory: Motorola Mobility - 1800 MHz System Performance Check (Body Tissue)

DUT: Dipole 1800 MHz; Type: D1800V2; Serial: D1800V2 - SN:2D190

Procedure Notes: PM1 Power = 200 mW Refl.Pwr PM3 = -19.70 dB Sim.Temp@SPC = 18.7C Room Temp @ SPC = 20.9C

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

Medium: Validation *BODY Tissue*; Medium parameters used: $f = 1800 \text{ MHz}$; $\sigma = 1.49 \text{ mho/m}$; $\epsilon_r = 51.5$; $\rho = 1000 \text{ kg/m}^3$

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 14.6.5 (6469)

DASY5, Triple Flat System Performance Check Template - Rev.3 (19-Sept-11)/Daily SPC Check/Dipole Area Scan (4x15x1):

Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 7.24 mW/g

DASY5, Triple Flat System Performance Check Template - Rev.3 (19-Sept-11)/Daily SPC Check/0-Degree 5x5x7 Cube

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

Reference Value = 74 659 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 13.381 mW/g

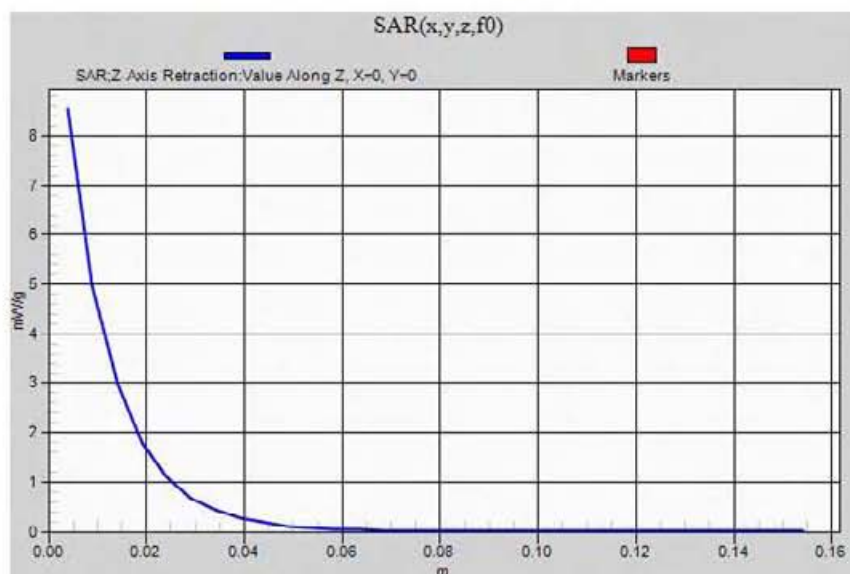
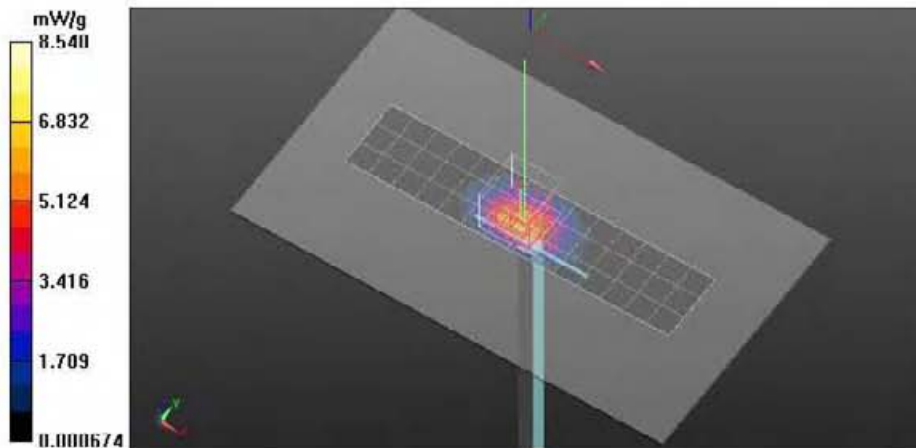
SAR(1 g) = 7.58 mW/g; SAR(10 g) = 4.03 mW/g

Maximum value of SAR (measured) = 8.48 mW/g

DASY5, Triple Flat System Performance Check Template - Rev.3 (19-Sept-11)/Daily SPC Check/Z-Axis Retraction (1x1x31):

Measurement grid: $dx=20\text{mm}$, $dy=20\text{mm}$, $dz=5\text{mm}$

Maximum value of SAR (measured) = 8.54 mW/g



Test Laboratory: Motorola Mobility - 1800MHz System Performance Check (Body Tissue)

DUT: Dipole 1800 MHz; Type: D1800V2; Serial: D1800V2 - SN:2D191

Procedure Notes: PM1 Power = 200 mW Refl.Pwr PM3 = -21.56 dB Sim.Temp@SPC = 19.7C Room Temp @ SPC = 21.3C

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

Medium: Validation *BODY Tissue*; Medium parameters used: $f = 1800$ MHz; $\sigma = 1.49$ mho/m; $\epsilon_r = 51.9$; $\rho = 1000$ 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 14.6.5 (6469)

DASY5, Triple Flat System Performance Check Template - Rev.3 (19-Sept-11)/Daily SPC Check/Dipole Area Scan (4x15x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 6.08 mW/g

DASY5, Triple Flat System Performance Check Template - Rev.3 (19-Sept-11)/Daily SPC Check/90-Degree 5x5x7 Cube

(5x5x7)/Cube 0; Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 72.245 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 12.028 mW/g

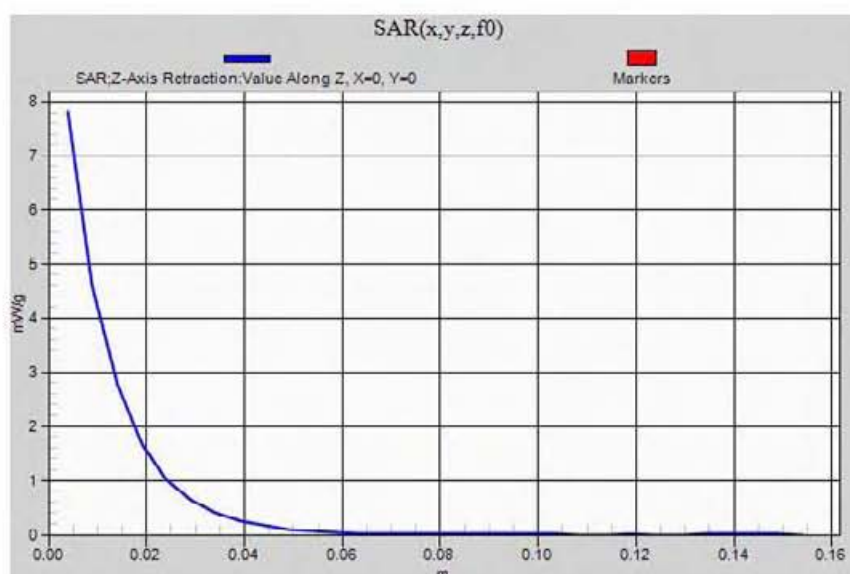
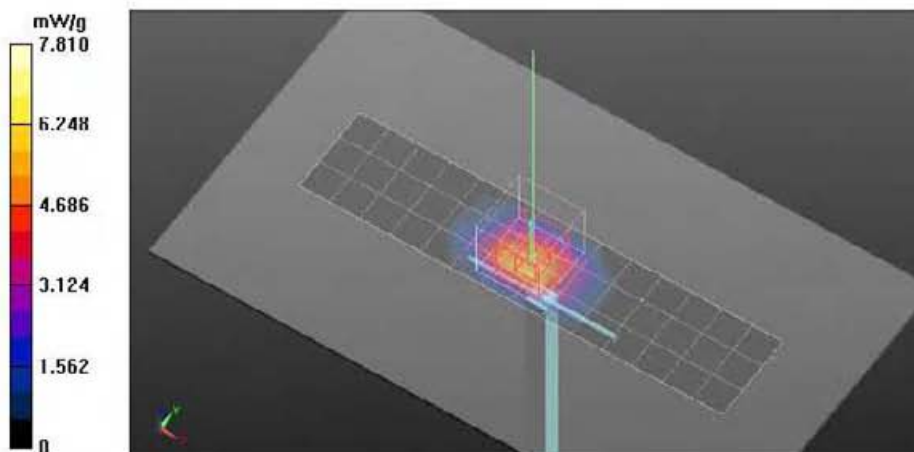
SAR(1 g) = 6.92 mW/g; SAR(10 g) = 3.69 mW/g

Maximum value of SAR (measured) = 7.80 mW/g

DASY5, Triple Flat System Performance Check Template - Rev.3 (19-Sept-11)/Daily SPC Check/Z-Axis Retraction (1x1x31):

Measurement grid: dx=20mm, dy=20mm, dz=5mm

Maximum value of SAR (measured) = 7.81 mW/g



Test Laboratory: Motorola Mobility - 1800MHz System Performance Check (Body Tissue)

DUT: Dipole 835 MILz; Type: D835V2; Serial: D835V2 - SN:2D191

Procedure Notes: PM1 Power = 200 mW Refl.Pwr PM3 = -20.15 dB Sim.Temp@SPC = 19.7C Room Temp @ SPC = 21.9C

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

Medium: Validation *BODY Tissue*; Medium parameters used: $f = 1800$ MHz; $\sigma = 1.5$ mho/m; $\epsilon_r = 51.7$; $\rho = 1000$ 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 14.6.5 (6469)

DASY5, Triple Flat System Performance Check Template - Rev.3 (19-Sept-11)/Daily SPC Check/Dipole Area Scan (4x15x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 6.02 mW/g

DASY5, Triple Flat System Performance Check Template - Rev.3 (19-Sept-11)/Daily SPC Check/0-Degree 5x5x7 Cube

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

Reference Value = 69.718 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 11.968 mW/g

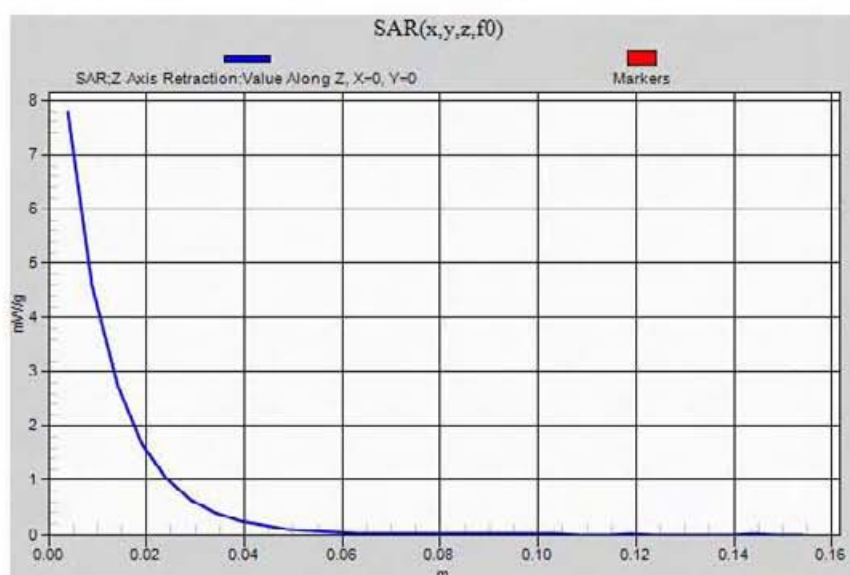
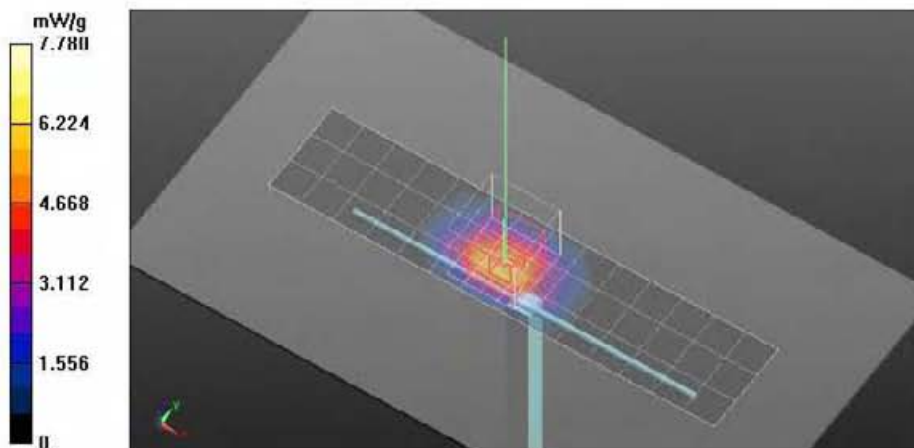
SAR(1 g) = 6.91 mW/g; SAR(10 g) = 3.68 mW/g

Maximum value of SAR (measured) = 7.77 mW/g

DASY5, Triple Flat System Performance Check Template - Rev.3 (19-Sept-11)/Daily SPC Check/Z-Axis Retraction (1x1x31):

Measurement grid: dx=20mm, dy=20mm, dz=5mm

Maximum value of SAR (measured) = 7.78 mW/g



Date/Time: 6/26/2012 3:40:55 PM

Test Laboratory: Motorola Mobility - Jun-26-2012 2450 MHz Body

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN: 863; FCC ID: IHDT56NG1

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

Sim.Temp@meas = 18.8°C; Sim.Temp@SPC = 19.4°C; Room Temp @ SPC = 20.8°C

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

Medium: Validation *BODY Tissue*

Medium parameters used: $f = 2450$ MHz; $\sigma = 2$ mho/m; $\epsilon_r = 50.5$; $\rho = 1000$ kg/m³

DASY4 Configuration:

- Probe: EX3DV4 - SN3728; ConvF(6.84, 6.84, 6.84); Calibrated: 4/24/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1312; Calibrated: 5/29/2012
- Phantom: R#-3, Triple Flat Phantom 5.1C (Rev.4); Type: QD 000 P51 CA; Serial: n/a;
- ; SEMCAD X Version 14.6.5 (6469)

DASY5, Triple Flat System Performance Check Template - Rev.3 (19-Sept-11)/Daily SPC Check/Dipole Area Scan (4x15x1):

Measurement grid: dx=15mm, dy=15mm; Maximum value of SAR (measured) = 8.26 mW/g

DASY5, Triple Flat System Performance Check Template - Rev.3 (19-Sept-11)/Daily SPC Check/0-Degree 5x5x7 Cube (5x5x7)/Cube 0:

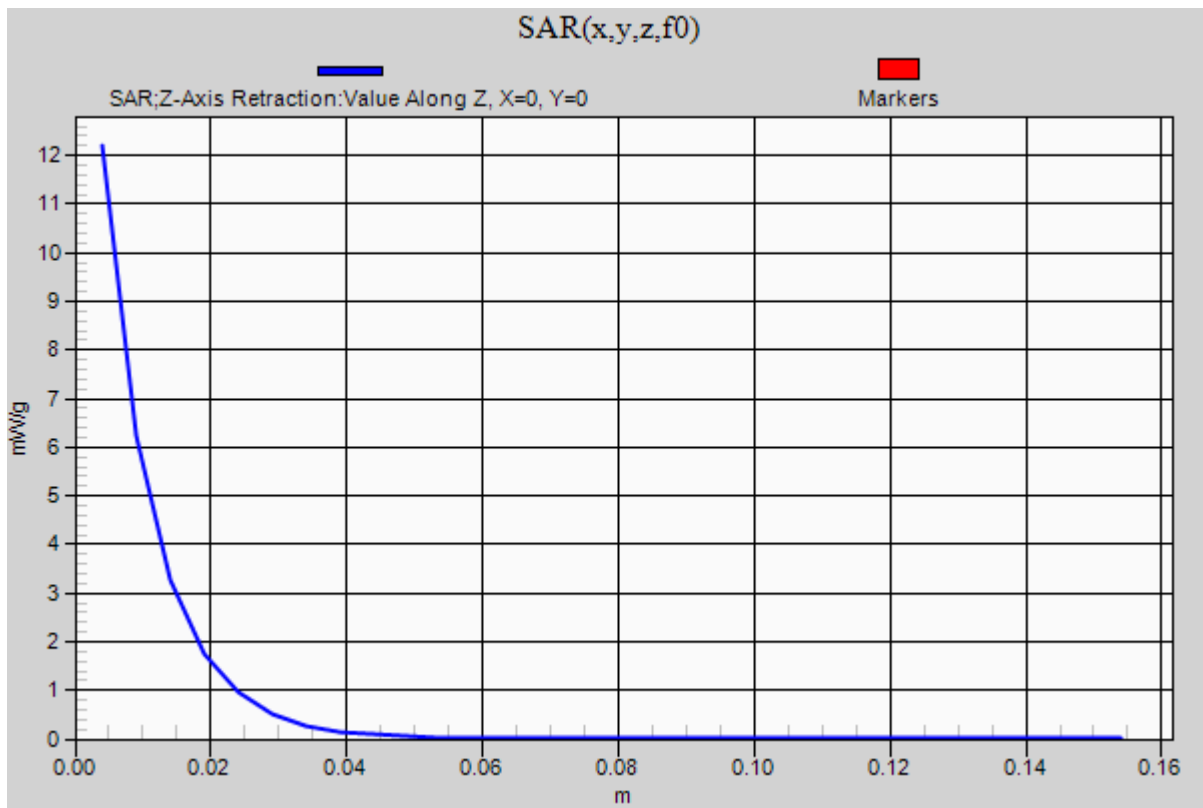
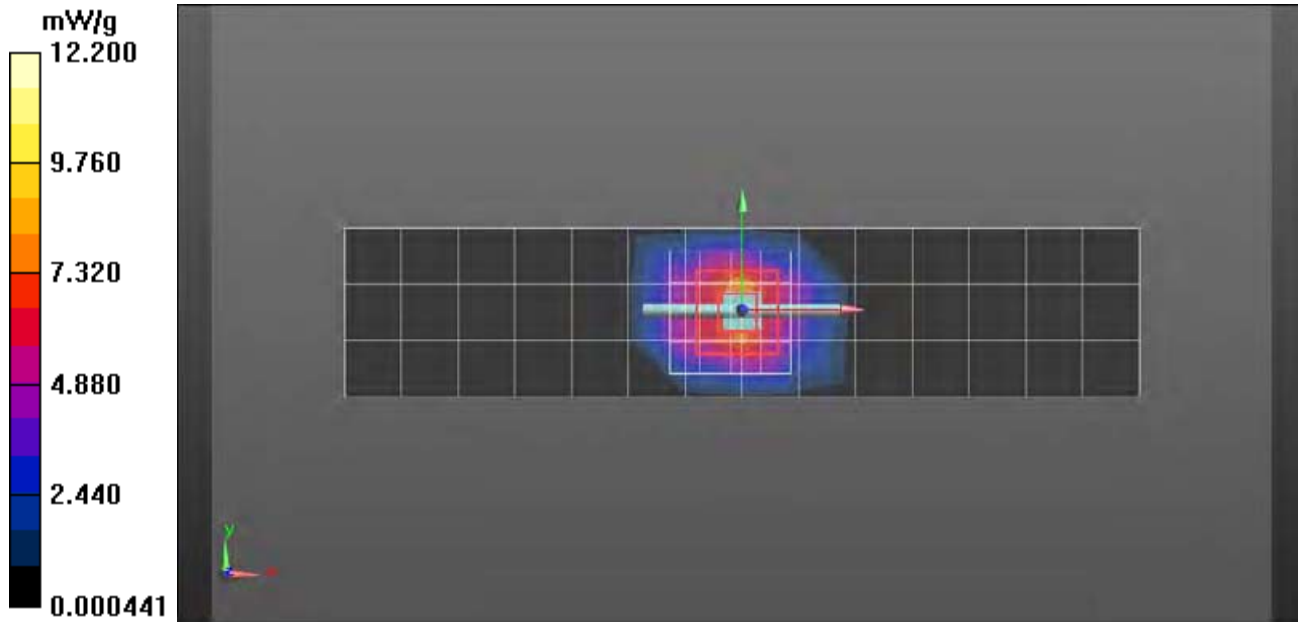
Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 78.236 V/m; Power Drift = -0.03 dB; Peak SAR (extrapolated) = 22.173 mW/g

SAR(1 g) = 10.9 mW/g; SAR(10 g) = 5.07 mW/g; Maximum value of SAR (measured) = 12.5 mW/g

DASY5, Triple Flat System Performance Check Template - Rev.3 (19-Sept-11)/Daily SPC Check/Z-Axis Retraction (1x1x31):

Measurement grid: dx=20mm, dy=20mm, dz=5mm; Maximum value of SAR (measured) = 12.2 mW/g



Date/Time: 7/5/2012 4:59:55 PM

Test Laboratory: Motorola Mobility - Jul-05-2012 2450 MHz Body

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN: 766; FCC ID: IHDT56NG1

Procedure Notes: 2450 MHz System Performance Check; Dipole Sn# 766; Input Power = 200 mW

Sim.Temp@meas = 19.1°C; Sim.Temp@SPC = 18.9°C; Room Temp @ SPC = 20.8°C

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

Medium: Validation *BODY Tissue*

Medium parameters used: $f = 2450$ MHz; $\sigma = 2.04$ mho/m; $\epsilon_r = 50.5$; $\rho = 1000$ kg/m³

DASY4 Configuration:

- Probe: EX3DV4 - SN3728; ConvF(6.84, 6.84, 6.84); Calibrated: 4/24/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1312; Calibrated: 5/29/2012
- Phantom: R#-3, Triple Flat Phantom 5.1C (Rev.4); Type: QD 000 P51 CA; Serial: n/a;
- ; SEMCAD X Version 14.6.5 (6469)

DASY5, Triple Flat System Performance Check Template - Rev.3 (19-Sept-11)/Daily SPC Check/Dipole Area Scan (4x15x1):

Measurement grid: dx=15mm, dy=15mm; Maximum value of SAR (measured) = 8.32 mW/g

DASY5, Triple Flat System Performance Check Template - Rev.3 (19-Sept-11)/Daily SPC Check/0-Degree 5x5x7 Cube (5x5x7)/Cube 0:

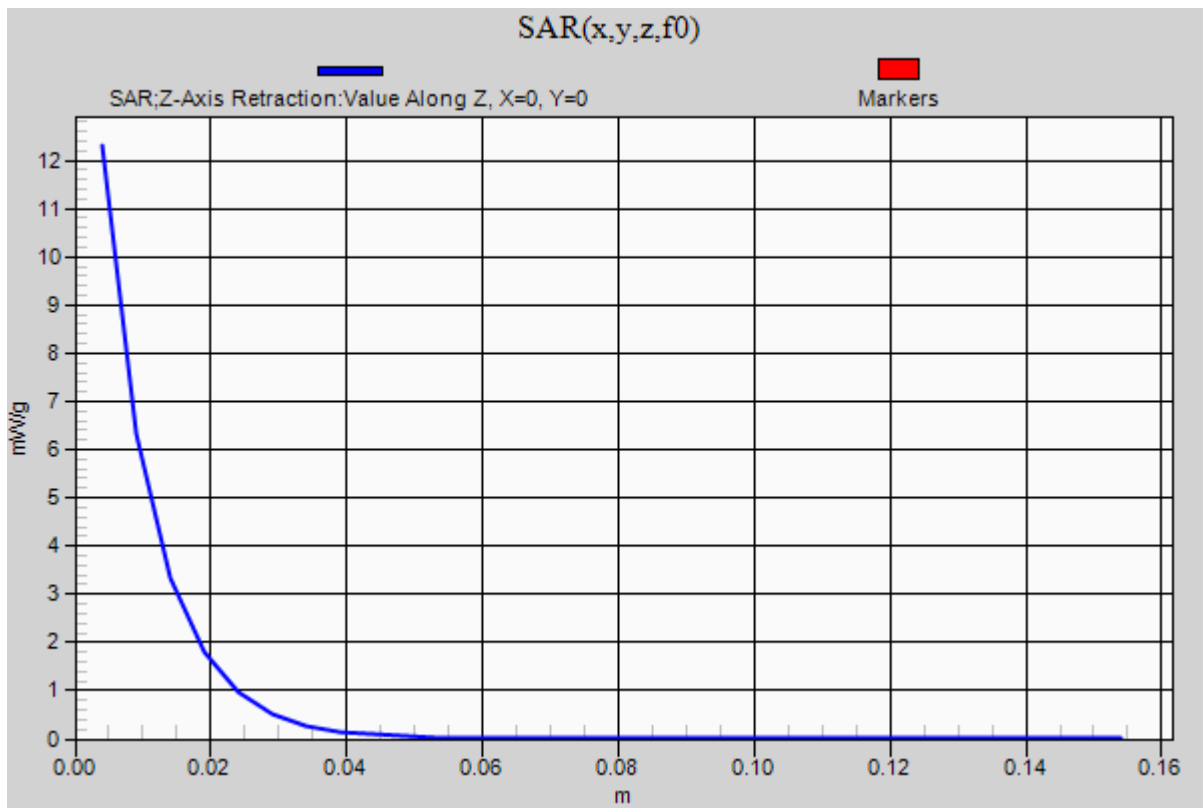
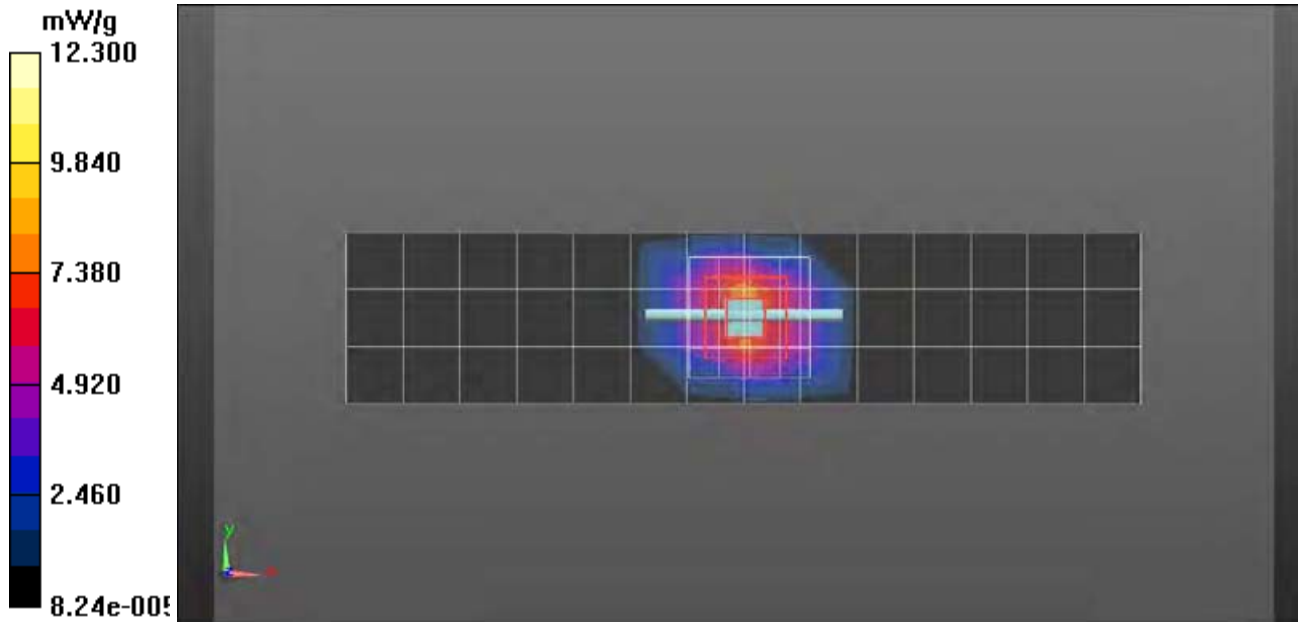
Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 77.715 V/m; Power Drift = -0.01 dB; Peak SAR (extrapolated) = 22.173 mW/g

SAR(1 g) = 10.9 mW/g; SAR(10 g) = 5.06 mW/g; Maximum value of SAR (measured) = 12.5 mW/g

DASY5, Triple Flat System Performance Check Template - Rev.3 (19-Sept-11)/Daily SPC Check/Z-Axis Retraction (1x1x31):

Measurement grid: dx=20mm, dy=20mm, dz=5mm; Maximum value of SAR (measured) = 12.3 mW/g



Date/Time: 6/27/2012 4:32:09 PM

Test Laboratory: Motorola Mobility - Jun-27-2012 5200 MHz Body

DUT: Dipole 5-6GHz; Type: D5GHzV2; Serial: D5GHzV2 - SN: 1088; FCC ID: IHDT56NG1

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

Sim.Temp@meas = 21.1°C; Sim.Temp@SPC = 21.3°C; Room Temp @ SPC = 20.7°C

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

Medium: Validation *BODY Tissue*

Medium parameters used: $f = 5200$ MHz; $\sigma = 5.24$ mho/m; $\epsilon_r = 48.1$; $\rho = 1000$ 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: DAE4 Sn1312; Calibrated: 5/29/2012
- Phantom: R#-3, Triple Flat Phantom 5.1C (Rev.4); Type: QD 000 P51 CA; Serial: n/a;
- ; SEMCAD X Version 14.6.5 (6469)

DASY5 - 5-6GHz, Triple Flat System Performance Check Template, Rev.3 (15-May-12)/Daily SPC Check/Dipole Area Scan (22x5x1):

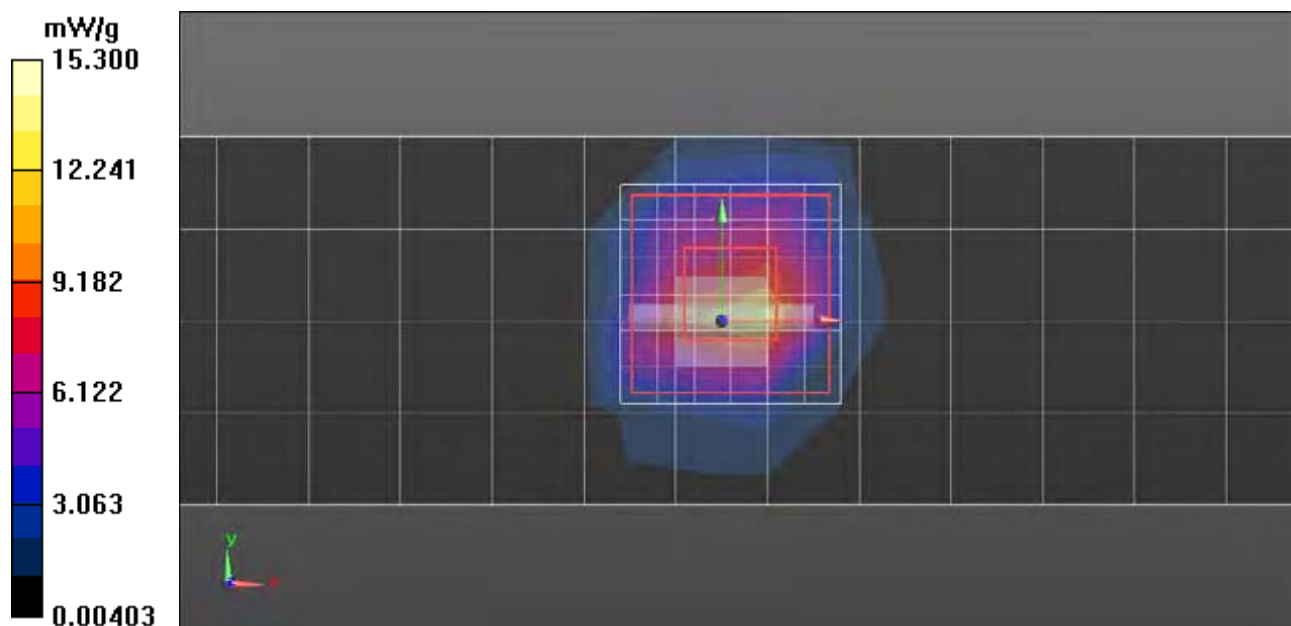
Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 11.0 mW/g

DASY5 - 5-6GHz, Triple Flat System Performance Check Template, Rev.3 (15-May-12)/Daily SPC Check/0-Degree, 7x7x12 Cube (7x7x6)/Cube 0:

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

Reference Value = 55.809 V/m; Power Drift = -0.02 dB; Peak SAR (extrapolated) = 26.269 mW/g

SAR(1 g) = 7.3 mW/g; SAR(10 g) = 2.07 mW/g; Maximum value of SAR (measured) = 15.3 mW/g



Date/Time: 7/4/2012 11:03:15 AM

Test Laboratory: Motorola Mobility - Jul-04-2012 5800 MHz Body

DUT: Dipole 5-6GHz; Type: D5GHzV2; Serial: D5GHzV2 - SN:1088; FCC ID: IHDT56NG1

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

Sim.Temp@meas = 19.0°C; Sim.Temp@SPC = 19.0°C; Room Temp @ SPC = 21.0°C

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

Medium: Validation *BODY Tissue*

Medium parameters used: $f = 5800$ MHz; $\sigma = 5.93$ mho/m; $\epsilon_r = 43.5$; $\rho = 1000$ 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: DAE4 Sn1312; Calibrated: 5/29/2012
- Phantom: R#-3, Triple Flat Phantom 5.1C (Rev.4); Type: QD 000 P51 CA; Serial: n/a;
- ; SEMCAD X Version 14.6.5 (6469)

DASY5 - 5-6GHz, Triple Flat System Performance Check Template, Rev.3 (15-May-12)/Daily SPC Check/Dipole Area Scan (22x5x1):

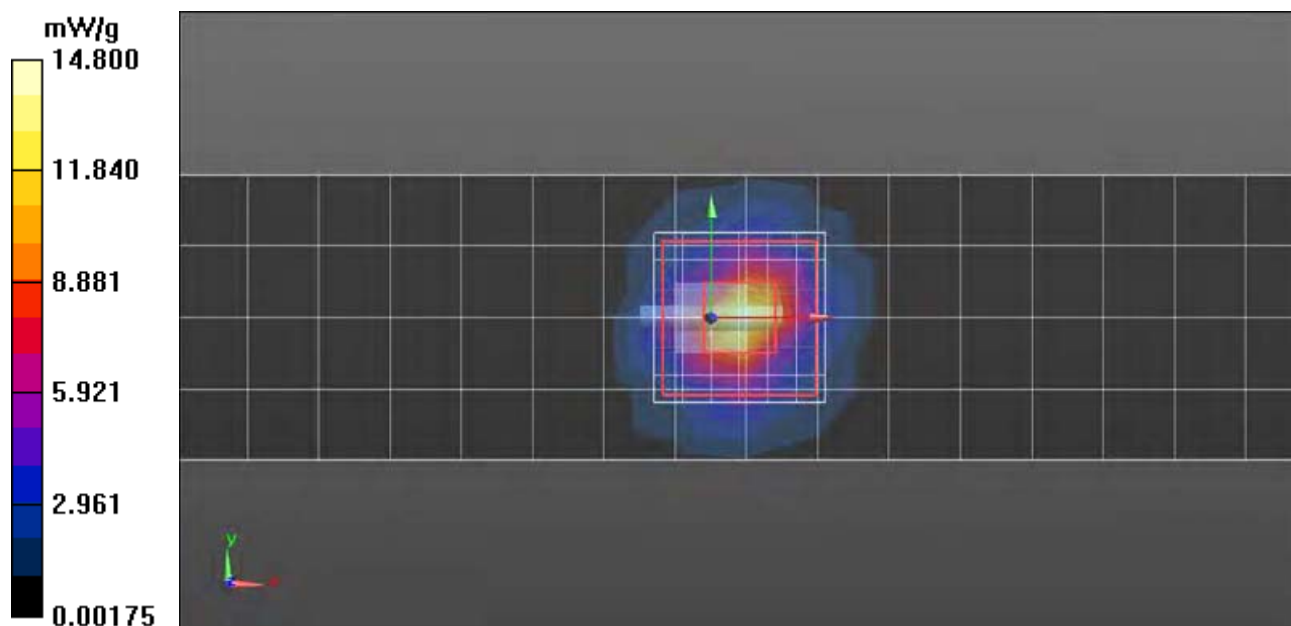
Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 14.5 mW/g

DASY5 - 5-6GHz, Triple Flat System Performance Check Template, Rev.3 (15-May-12)/Daily SPC Check/0-Degree, 7x7x12 Cube (7x7x6)/Cube 0:

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

Reference Value = 50.332 V/m; Power Drift = -0.19 dB; Peak SAR (extrapolated) = 27.420 mW/g

SAR(1 g) = 6.82 mW/g; SAR(10 g) = 1.92 mW/g; Maximum value of SAR (measured) = 14.8 mW/g



Date/Time: 7/6/2012 1:09:19 PM

Test Laboratory: Motorola Mobility - Jul-06-2012 5800 MHz Body

DUT: Dipole 5-6GHz; Type: D5GHzV2; Serial: D5GHzV2 - SN 1088; FCC ID: IHDT56NG1

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

Sim.Temp@meas = 19.1°C; Sim.Temp@SPC = 19.0°C; Room Temp @ SPC = 20.5°C

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

Medium: Validation *BODY Tissue*

Medium parameters used: $f = 5800$ MHz; $\sigma = 6.11$ mho/m; $\epsilon_r = 43.9$; $\rho = 1000$ 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: DAE4 Sn1312; Calibrated: 5/29/2012
- Phantom: R#-3, Triple Flat Phantom 5.1C (Rev.4); Type: QD 000 P51 CA; Serial: n/a;
- ; SEMCAD X Version 14.6.5 (6469)

DASY5 - 5-6GHz, Triple Flat System Performance Check Template, Rev.3 (15-May-12)/Daily SPC Check/Dipole Area Scan (22x5x1):

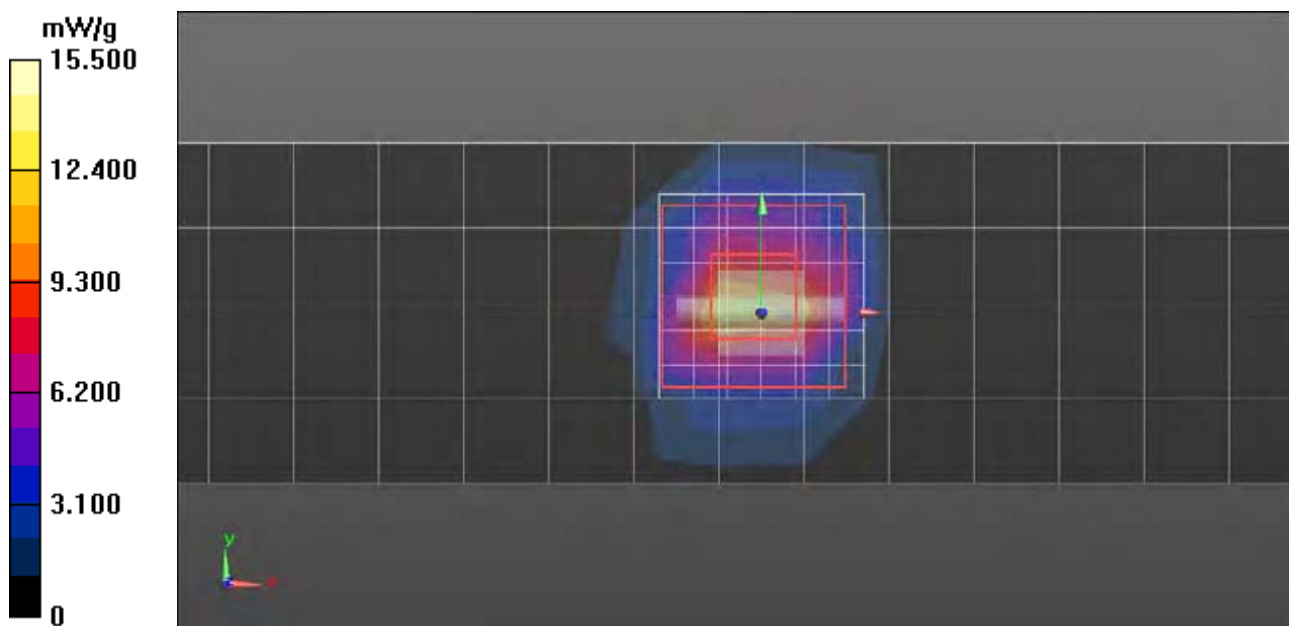
Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 11.5 mW/g

DASY5 - 5-6GHz, Triple Flat System Performance Check Template, Rev.3 (15-May-12)/Daily SPC Check/0-Degree, 7x7x12 Cube (7x7x6)/Cube 0:

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

Reference Value = 54.783 V/m; Power Drift = 0.01 dB; Peak SAR (extrapolated) = 29.365 mW/g

SAR(1 g) = 7.13 mW/g; SAR(10 g) = 2 mW/g; Maximum value of SAR (measured) = 15.5 mW/g



Appendix 2

SAR distribution plots for Head Adjacent Test Results

Test Laboratory: Motorola Mobility - LTE Band 13 Left Head Cheek**DUT: Phone; Serial: LVQV2L0031, FCC ID: IIDT56NG1**

Procedure Notes: Pwr Step: N/A Battery Model #: INTERNAL DEVICE POSITION: CHEEK Touch

Start RB: 0 # RBs: 1 RB Allocation: 1 RB @ Low End Modulation: QPSK

Communication System: _LTE Band 13; Frequency: 782 MHz; Duty Cycle: 1:1

Medium: Low Freq Head; Medium parameters used: $f = 782 \text{ MHz}$; $\sigma = 0.89 \text{ mho/m}$; $\epsilon_r = 42.7$; $\rho = 1000 \text{ kg/m}^3$ **DASY4 Configuration:**

- Probe: ES3DV3 - SN3124; ConvF(6.26, 6.26, 6.26); 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 14.6.5 (6469)

DASY5, SAM - Phone against Left Head Template, Rev.3 (29-Sept-11)/Left Head Template/Area Scan - Normal Extended (15mm) (7x17x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.479 mW/g

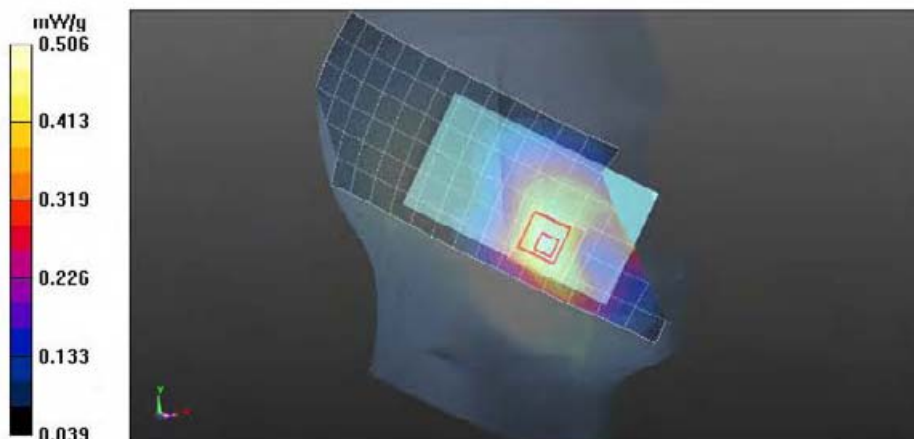
DASY5, SAM - Phone against Left Head Template, Rev.3 (29-Sept-11)/Left Head Template/5x5x7 Zoom Scan (<-3GHz) (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 23 448 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.616 mW/g

SAR(1 g) = 0.481 mW/g; SAR(10 g) = 0.362 mW/g

Maximum value of SAR (measured) = 0.506 mW/g



Test Laboratory: Motorola Mobility - CDMA 1x 800 MHz Left Head Cheek

DUT: Serial: LVQV2L0031, FCC ID: IIDT56NG1

Procedure Notes: Pwr Step. All Up Bits Battery Model#. Internal DEVICE POSITION (check or rotated). Cheek Communication System. CDMA, Frequency: 836.52 MHz, Duty Cycle: 1.1

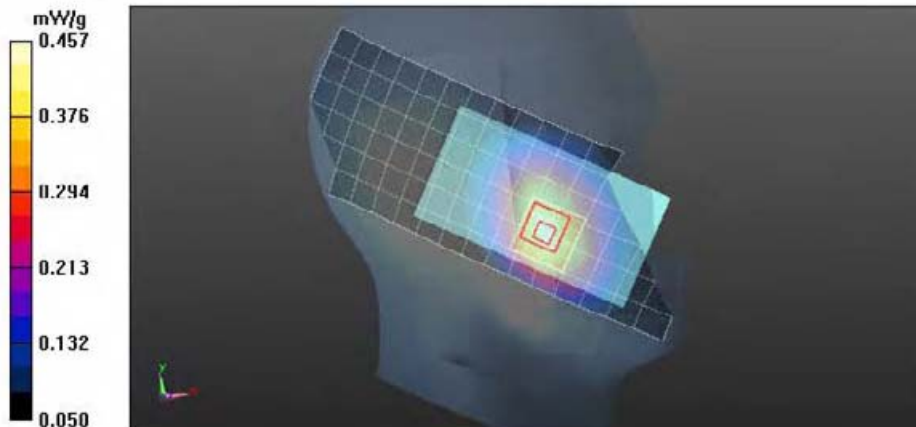
Medium: Low Freq Head; Medium parameters used: $f = 835$ MHz; $\sigma = 0.92$ mho/m; $\epsilon_r = 40.8$; $\rho = 1000$ kg/m³

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 14.6.5 (6469)

DASY5, SAM - Phone against Left Head Template, Rev.3 (29-Sept-11)/Left Head Template/Area Scan - Normal Extended (15mm) (7x17x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.455 mW/g

DASY5, SAM - Phone against Left Head Template, Rev.3 (29-Sept-11)/Left Head Template/5x5x7 Zoom Scan (<=3GHz) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 22.005 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 0.557 mW/g
SAR(1 g) = 0.430 mW/g; SAR(10 g) = 0.323 mW/g
Maximum value of SAR (measured) = 0.457 mW/g



Test Laboratory: Motorola Mobility - EVDO 800 MHz (bottom Tx Antenna) Right Head Cheek Touch

DUT: Serial: LVQV2L0031, FC CID: IIDT56NG1

Procedure Notes: Pwr Step: ALL UP BITS Battery Model #: INTERNAL Test Config. CHEEK / EVDO Rev O (RTAP)

Communication System: _CDMA; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium: Low Freq Head; Medium parameters used: $f = 835$ MHz; $\sigma = 0.94$ mho/m; $c_r = 40.5$; $\rho = 1000$ kg/m³

DASY4 Configuration:

- Probe: ES3DV3 - SN3284; ConvF(6.18, 6.18, 6.18); Calibrated: 1/10/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1310; Calibrated: 1/11/2012
- Phantom: R# 4 Sugar SAM (extended range), Rev.2 (24-Feb-12); Type: SAM v4.0; Serial: TP-1132;
- SEMCAD X Version 14.6.5 (6469)

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) = 0.383 mW/g

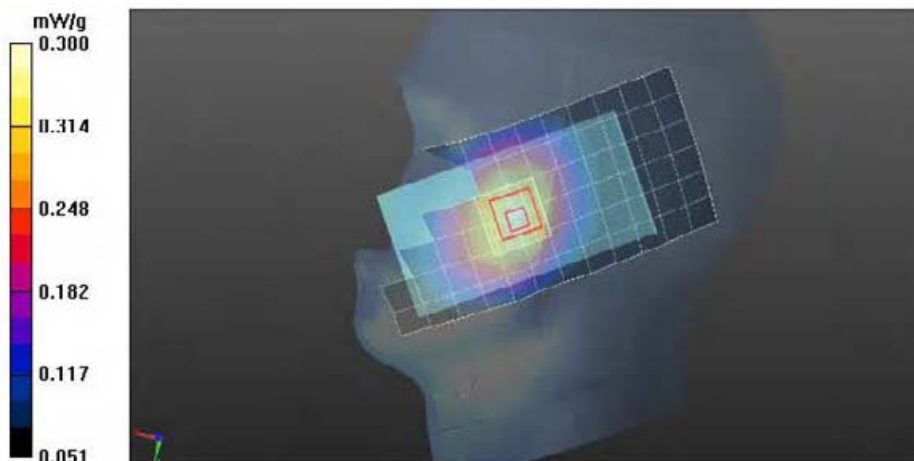
DASY5, SAM - Phone against RIGHT head template - Rev.2 (29-Sept-11)/Right Head Template/5x5x7 Zoom Scan (<=3GHz)**(5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 19.730 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 0.453 mW/g

SAR(1 g) = 0.361 mW/g; SAR(10 g) = 0.273 mW/g

Maximum value of SAR (measured) = 0.380 mW/g



Test Laboratory: Motorola Mobility - EVDO 800 MHz (top Tx Antenna) Right Head Cheek Touch

DUT: Serial: LVQV2G0014, FCC ID: IIDT56NG1

Procedure Notes: Pwr Step: Test Mode Battery Model #: INTERNAL Test Cofnig: Cheek Touch

Communication System: CDMA, Frequency: 836.52 MHz, Duty Cycle: 1.1

Medium: Low Freq Head; Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.94 \text{ mho/m}$; $\epsilon_r = 41.4$; $\rho = 1000 \text{ kg/m}^3$

DASY4 Configuration:

- Probe: ES3DV3 - SN3284; ConvF(6.18, 6.18, 6.18); Calibrated: 1/10/2012;
- Sensor Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1310; Calibrated: 1/11/2012
- Phantom: R#_ 4 Sugar SAM (extended range), Rev.2 (24-Feb-12); Type: SAM v4.0; Serial: TP-1132;
- SEMCAD X Version 14.6.5 (6469)

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) = 0.150 mW/g

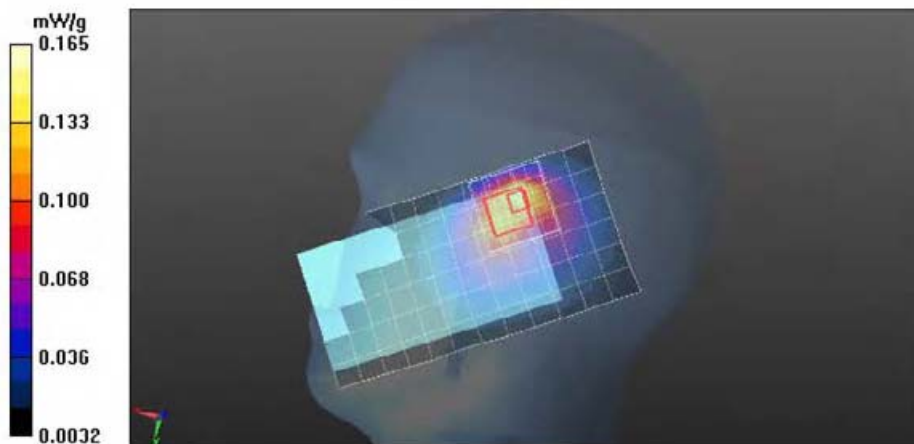
DASY5, SAM - Phone against RIGHT head template - Rev.2 (29-Sept-11)/Right Head Template/5x5x7 Zoom Scan ($\leq 3\text{GHz}$)(6x6x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 11.392 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.320 mW/g

SAR(1 g) = 0.150 mW/g; SAR(10 g) = 0.082 mW/g

Maximum value of SAR (measured) = 0.165 mW/g



Test Laboratory: Motorola Mobility - CDMA 1x 1900MHz Right Head Cheek**DUT: Serial: LVQV2L0031, FCC ID: IIDT56NGI**

Procedure Notes: Pwr Step: AL UP BITS Battery Model #: INTERNAL DEVICE POSITION: RH Cheek

Communication System: _CDMA; Frequency: 1851.25 MHz; Duty Cycle: 1:1

Medium: Regular Glycol Head 1750/1880; Medium parameters used: $f = 1880$ MHz; $\sigma = 1.45$ mho/m; $\epsilon_r = 38.4$; $\rho = 1000$ 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 14.6.5 (6469)

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) = 0.907 mW/g

DASY5, SAM - Phone against RIGHT head template - Rev.2 (29-Sept-11)/Right Head Template/5x5x7 Zoom Scan (<=3GHz)

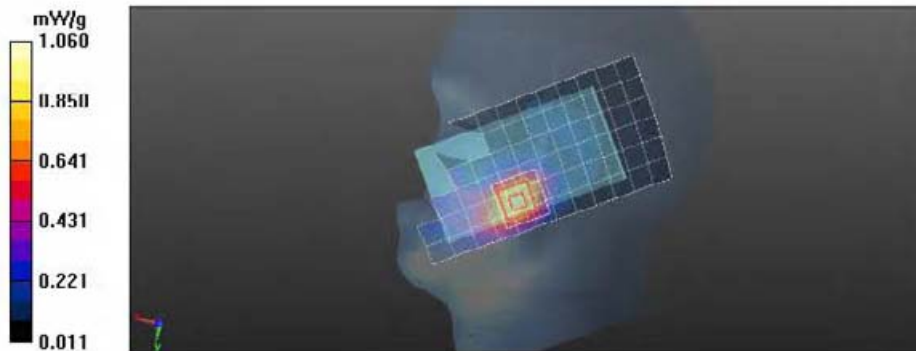
(5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 20.366 V/m; Power Drift = 0.33 dB

Peak SAR (extrapolated) = 1.501 mW/g

SAR(1 g) = 0.971 mW/g; SAR(10 g) = 0.591 mW/g

Maximum value of SAR (measured) = 1.06 mW/g



Date/Time: 4/25/2012 11:52:12 PM

Test Laboratory: Motorola Mobility - EVDO 1900 Cheek

Serial: LVQV2L0031; FCC ID: IHDT56NG1

Procedure Notes: Pwr Step: ALL UP BITS; Antenna Position: Internal; Accessory Model #: N/A

Battery Model #: Internal; DEVICE POSITION (cheek or rotated): CHEEK

Device Mode: EVDO Rev O (RTAP)

Communication System: _CDMA; Frequency: 1908.75 MHz; Channel Number: 1175; Duty Cycle: 1:1
Medium: Regular Glycol Head 1750/1880;

Medium parameters used: $f = 1880$ MHz; $s = 1.47$ mho/m; $\epsilon_r = 38.1$; $\rho = 1000$ kg/m³

DASY4 Configuration:

- Probe: ES3DV3 - SN3284; ConvF(5.33, 5.33, 5.33); Calibrated: 1/10/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1310; Calibrated: 1/11/2012
- Phantom: R#4 Glycol SAM (extended range), Rev.2 (24-Feb-12); Type: SAM v4.0; Serial: TP-1162;
- ; SEMCAD X Version 14.6.5 (6469)

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) = 0.684 mW/g

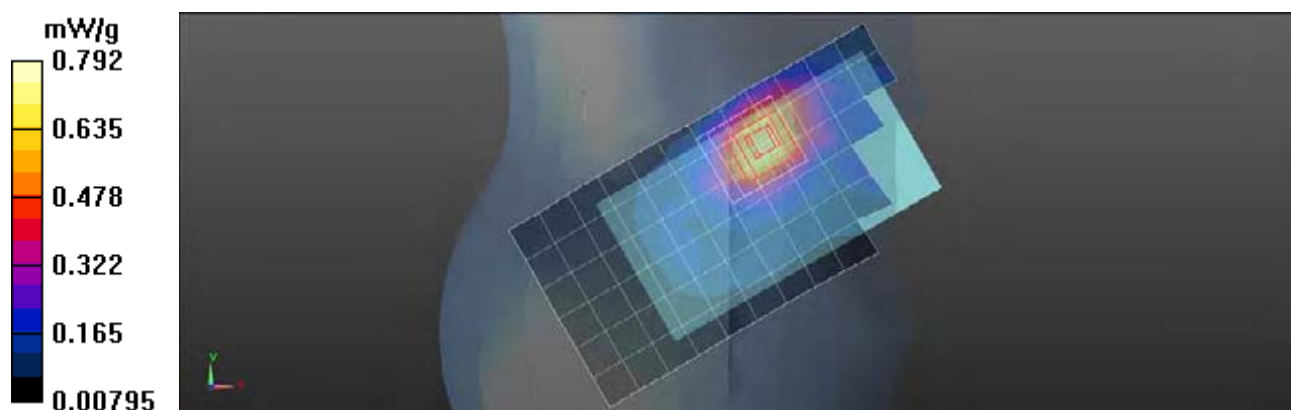
DASY5, SAM - Phone against RIGHT head template - Rev.2 (29-Sept-11)/Right Head Template/5x5x7 Zoom Scan (<=3GHz) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 18.840 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 1.169 mW/g

SAR(1 g) = 0.724 mW/g; SAR(10 g) = 0.427 mW/g

Maximum value of SAR (measured) = 0.792 mW/g



Test Laboratory: Motorola Mobility - EVDO 1900MHz (top Tx antenna) Right Head Cheek**DUT: Serial: LVQV2G0014, FCC ID: IIIDT56NG1**

Procedure Notes: Pwr Step, Test Mode Battery Model #: INTERNAL Test Config, Right Head Cheek

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

Medium: Regular Glycol Head 1750/1880; Medium parameters used: $f = 1880$ MHz; $\sigma = 1.44$ mho/m; $\epsilon_r = 38.8$; $\rho = 1000$ kg/m³

DASY4 Configuration:

- Probe: ES3DV3 - SN3284; ConvF(5.33, 5.33, 5.33); Calibrated: 1/10/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1310; Calibrated: 1/11/2012
- Phantom: R#4 Glycol SAM (extended range), Rev.2 (24-Feb-12), Type: SAM v4.0, Serial: TP-1162,
- SEMCAD X Version 14.6.5 (6469)

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) = 0.527 mW/g

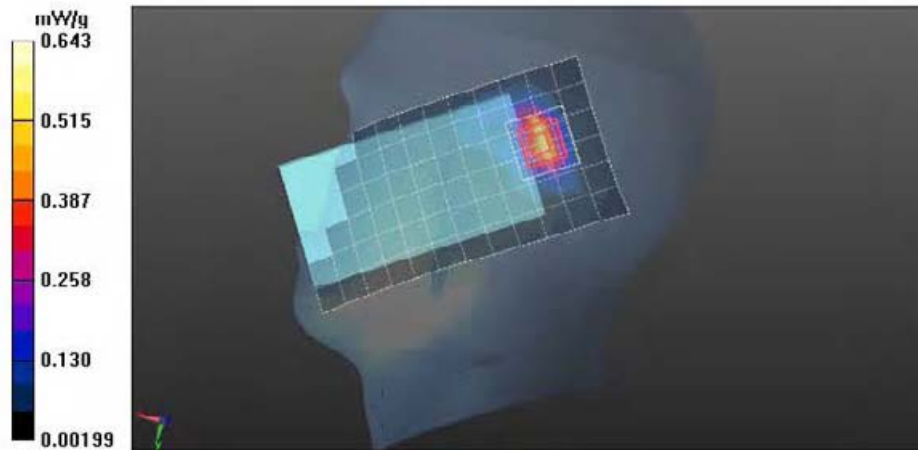
DASY5, SAM - Phone against RIGHT head template - Rev.2 (29-Sept-11)/Right Head Template/5x5x7 Zoom Scan (<-3GHz)**(5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 21.604 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 1.298 mW/g

SAR(1 g) = 0.605 mW/g; SAR(10 g) = 0.267 mW/g

Maximum value of SAR (measured) = 0.643 mW/g



Date/Time: 6/27/2012 12:53:08 AM

Test Laboratory: Motorola Mobility - Wi-Fi 2.4 GHz Cheek

Serial: TA648000RP; FCC ID: IHDT56NG1

Procedure Notes: Pwr Step: N/A; Antenna Position: Internal; Accessory Model #: N/A

Battery Model #: Internal; DEVICE POSITION (cheek or rotated): CHEEK

Device Mode: 802.11b mode, 1 Mbps data rate

Communication System: _Wi-Fi 2450MHz; Frequency: 2412 MHz; Channel Number: 1; Duty Cycle: 1:1

Medium: 2450 Diacetin Head

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.86$ mho/m; $\epsilon_r = 37.6$; $\rho = 1000$ 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: DAE4 Sn1312; Calibrated: 5/29/2012
- Phantom: R#3 5G/2450 WiFi SAM (extended range), Rev.2 (24-Feb-12); Type: SAM v4.0; Serial: TP-1153;
- ; SEMCAD X Version 14.6.5 (6469)

DASY5, SAM - Phone against RIGHT head template - Rev.2 (29-Sept-11)/Right Head Template/Area Scan - Normal (15mm) (7x17x1):

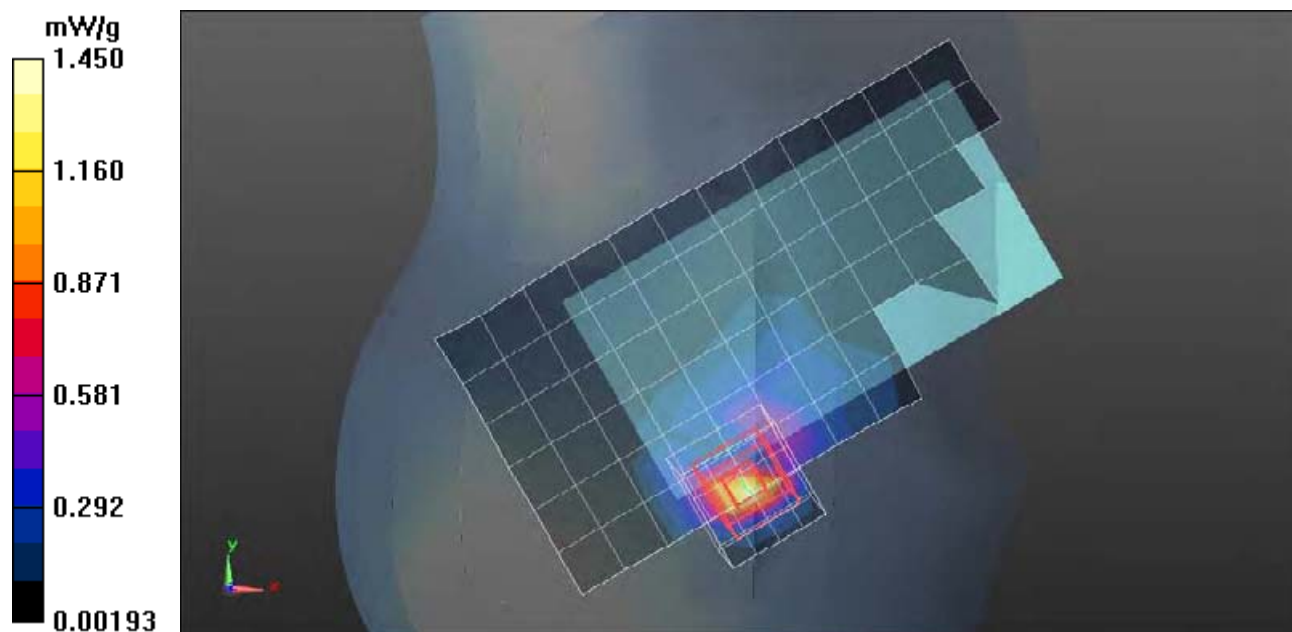
Measurement grid: dx=15mm, dy=15mm; Maximum value of SAR (measured) = 1.46 mW/g

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 = 11.663 V/m; Power Drift = -0.08 dB; Peak SAR (extrapolated) = 4.414 mW/g

SAR(1 g) = 1.5 mW/g; SAR(10 g) = 0.539 mW/g; Maximum value of SAR (measured) = 1.45 mW/g



Date/Time: 6/28/2012 12:46:48 AM

Test Laboratory: Motorola Mobility - Wi-Fi 5.2 GHz Cheek

Serial: TA648000RP; FCC ID: IHDT56NG1

Procedure Notes: Pwr Step: N/A; Antenna Position: Internal; Accessory Model #: N/A

Battery Model #: Internal; DEVICE POSITION (cheek or rotated): CHEEK

Device Mode: 802.11a mode, 6 Mbps data rate

Communication System: _WIFI 5-6GHz; Frequency: 5220 MHz; Channel Number: 44; Duty Cycle: 1:1

Medium: 5.2 - 5.6 GHz HEAD

Medium parameters used: $f = 5210$ MHz; $\sigma = 4.59$ mho/m; $\epsilon_r = 35.4$; $\rho = 1000$ 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: DAE4 Sn1312; Calibrated: 5/29/2012
- Phantom: R#3 5 GHz HEAD SAM (extended range), Rev.2 (24-Feb-12); Type: SAM v4.0; Serial: TP-1106;
- ; SEMCAD X Version 14.6.5 (6469)

DASY5 - 5-6GHz, Right Head SAM Template - Rev.3 (4-April-12)/Right Head Template/Area Scan - Normal (10mm) (10x25x1):

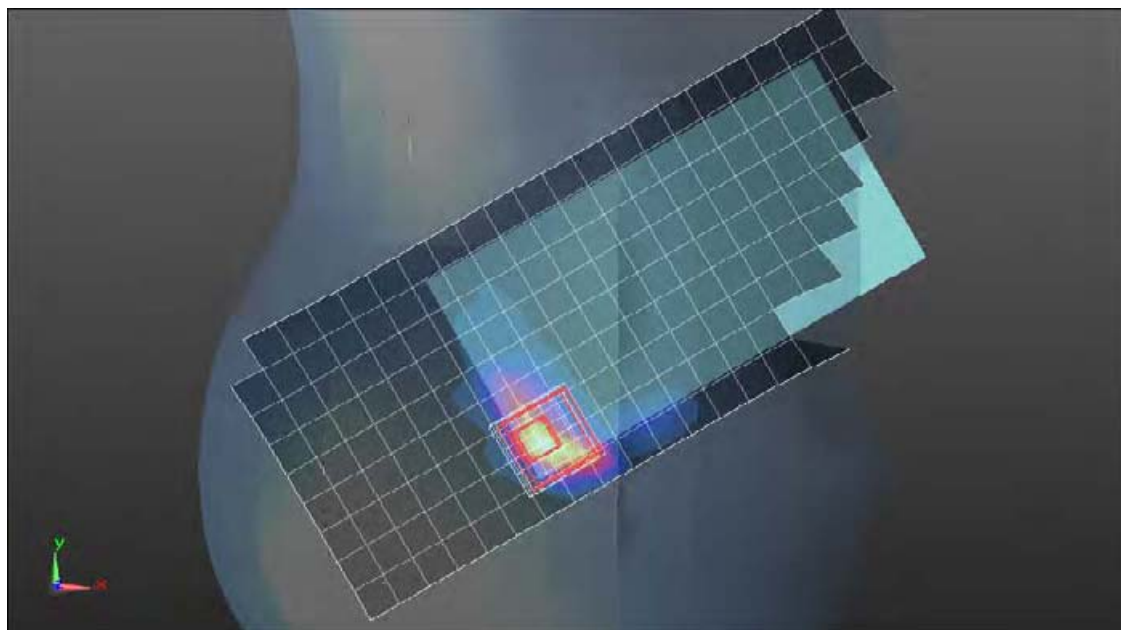
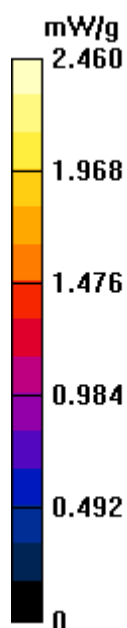
Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 2.59 mW/g

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=4mm, dy=4mm, dz=2mm

Reference Value = 11.189 V/m; Power Drift = -0.53 dB; Peak SAR (extrapolated) = 5.304 mW/g

SAR(1 g) = 1.2 mW/g; SAR(10 g) = 0.379 mW/g; Maximum value of SAR (measured) = 2.46 mW/g



Date/Time: 6/28/2012 9:42:26 AM

Test Laboratory: Motorola Mobility - Wi-Fi 5.3 GHz Cheek

Serial: TA648000RP; FCC ID: IHDT56NG1

Procedure Notes: Pwr Step: N/A; Antenna Position: Internal; Accessory Model #: N/A

Battery Model #: Internal; DEVICE POSITION: CHEEK

Device Mode: 802.11a mode, 6 Mbps data rate

Communication System: _WIFI 5-6GHz; Frequency: 5300 MHz; Channel Number: 60; Duty Cycle: 1:1

Medium: 5.2 - 5.6 GHz HEAD

Medium parameters used: $f = 5290$ MHz; $\sigma = 4.66$ mho/m; $\epsilon_r = 35.2$; $\rho = 1000$ kg/m³

DASY4 Configuration:

- Probe: EX3DV4 - SN3728; ConvF(4.43, 4.43, 4.43); Calibrated: 4/24/2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1312; Calibrated: 5/29/2012
- Phantom: R#3 5 GHz HEAD SAM (extended range), Rev.2 (24-Feb-12); Type: SAM v4.0; Serial: TP-1106;
- ; SEMCAD X Version 14.6.5 (6469)

DASY5 - 5-6GHz, Right Head SAM Template - Rev.3 (4-April-12)/Right Head Template/Area Scan - Normal (10mm) (10x25x1):

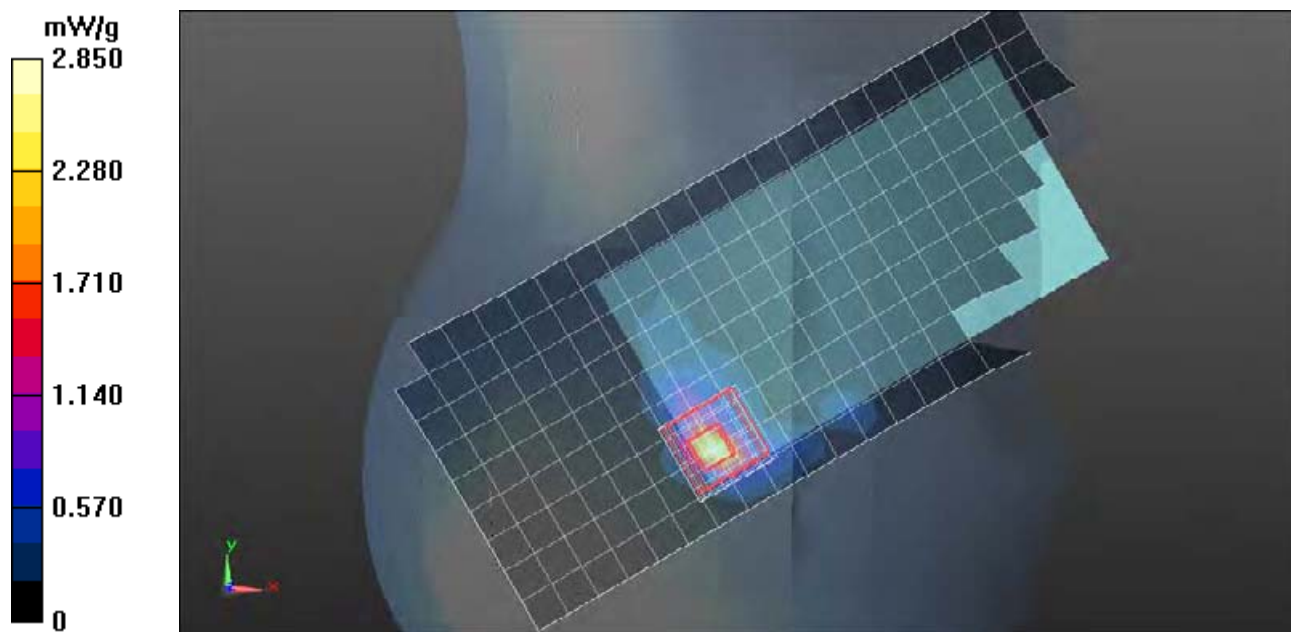
Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 3.03 mW/g

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=4mm, dy=4mm, dz=2mm

Reference Value = 11.584 V/m; Power Drift = -0.39 dB; Peak SAR (extrapolated) = 6.515 mW/g

SAR(1 g) = 1.29 mW/g; SAR(10 g) = 0.331 mW/g; Maximum value of SAR (measured) = 2.85 mW/g



Date/Time: 6/28/2012 7:11:22 PM

Test Laboratory: Motorola Mobility - Wi-Fi 5.6 GHz Cheek

Serial: TA648000RP; FCC ID: IHDT56NG1

Procedure Notes: Pwr Step: N/A; Antenna Position: Internal; Accessory Model #: N/A

Battery Model #: Internal; DEVICE POSITION (cheek or rotated): CHEEK

Device Mode: 802.11a mode, 6 Mbps data rate

Communication System: _WIFI 5-6GHz; Frequency: 5680 MHz; Channel Number: 136; Duty Cycle: 1:1

Medium: 5.2 - 5.6 GHz HEAD

Medium parameters used: $f = 5600$ MHz; $\sigma = 5.09$ mho/m; $\epsilon_r = 34.6$; $\rho = 1000$ kg/m³

DASY4 Configuration:

- Probe: EX3DV4 - SN3728; ConvF(4.14, 4.14, 4.14); Calibrated: 4/24/2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1312; Calibrated: 5/29/2012
- Phantom: R#3 5 GHz HEAD SAM (extended range), Rev.2 (24-Feb-12); Type: SAM v4.0; Serial: TP-1106;
- ; SEMCAD X Version 14.6.5 (6469)

DASY5 - 5-6GHz, Right Head SAM Template - Rev.3 (4-April-12)/Right Head Template/Area Scan - Normal (10mm) (10x25x1):

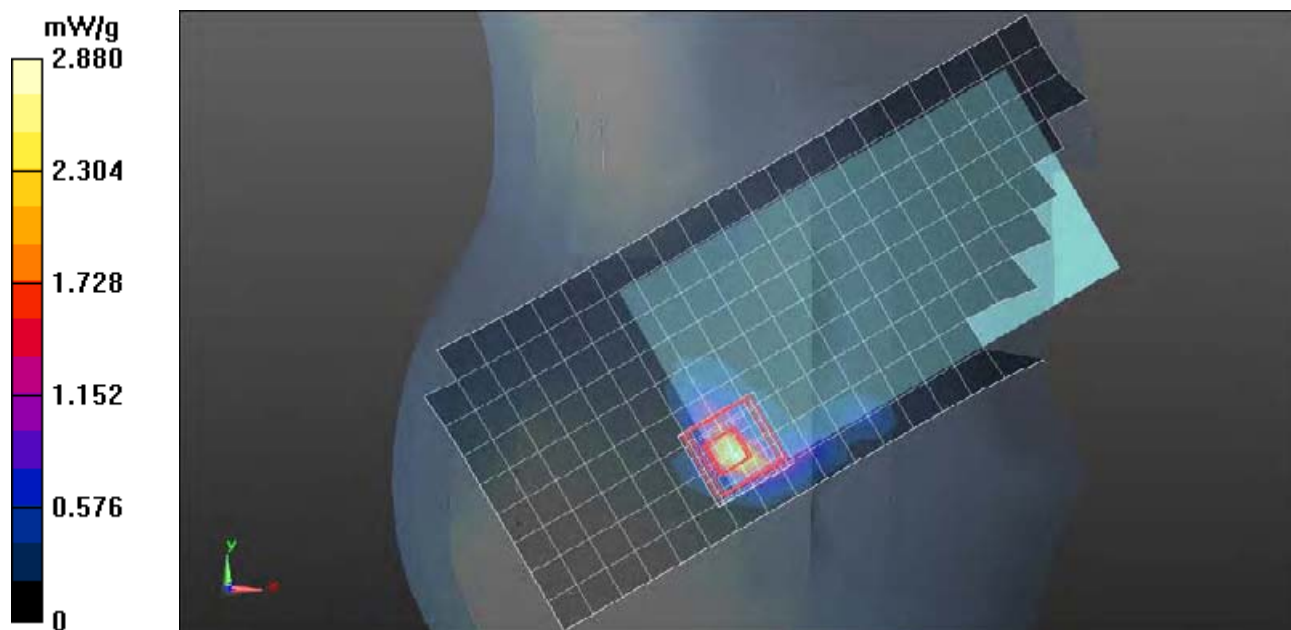
Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 3.03 mW/g

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=4mm, dy=4mm, dz=2mm

Reference Value = 9.907 V/m; Power Drift = -0.82 dB; Peak SAR (extrapolated) = 6.196 mW/g

SAR(1 g) = 1.29 mW/g; SAR(10 g) = 0.351 mW/g; Maximum value of SAR (measured) = 2.88 mW/g



Date/Time: 7/6/2012 10:31:38 AM

Test Laboratory: Motorola Mobility - Wi-Fi 5.8 GHz Cheek

Serial: TA648000RP; FCC ID: IHDT56NG1

Procedure Notes: Pwr Step: N/A; Antenna Position: Internal; Accessory Model #: N/A

Battery Model #: Internal; DEVICE POSITION: CHEEK

Device Mode: 802.11a mode, 6 Mbps data rate

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

Medium: 5.785 GHz HEAD

Medium parameters used: $f = 5785$ MHz; $\sigma = 5.12$ mho/m; $\epsilon_r = 33.9$; $\rho = 1000$ kg/m³

DASY4 Configuration:

- Probe: EX3DV4 - SN3728; ConvF(4.23, 4.23, 4.23); Calibrated: 4/24/2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1312; Calibrated: 5/29/2012
- Phantom: R#3 5 GHz HEAD SAM (extended range), Rev.2 (24-Feb-12); Type: SAM v4.0; Serial: TP-1106;
- ; SEMCAD X Version 14.6.5 (6469)

DASY5 - 5-6GHz, Right Head Short Scan for Drift - Rev.1 (6-July-12)/Right Head Template/Area Scan - Normal Extended (10mm) (10x29x1):

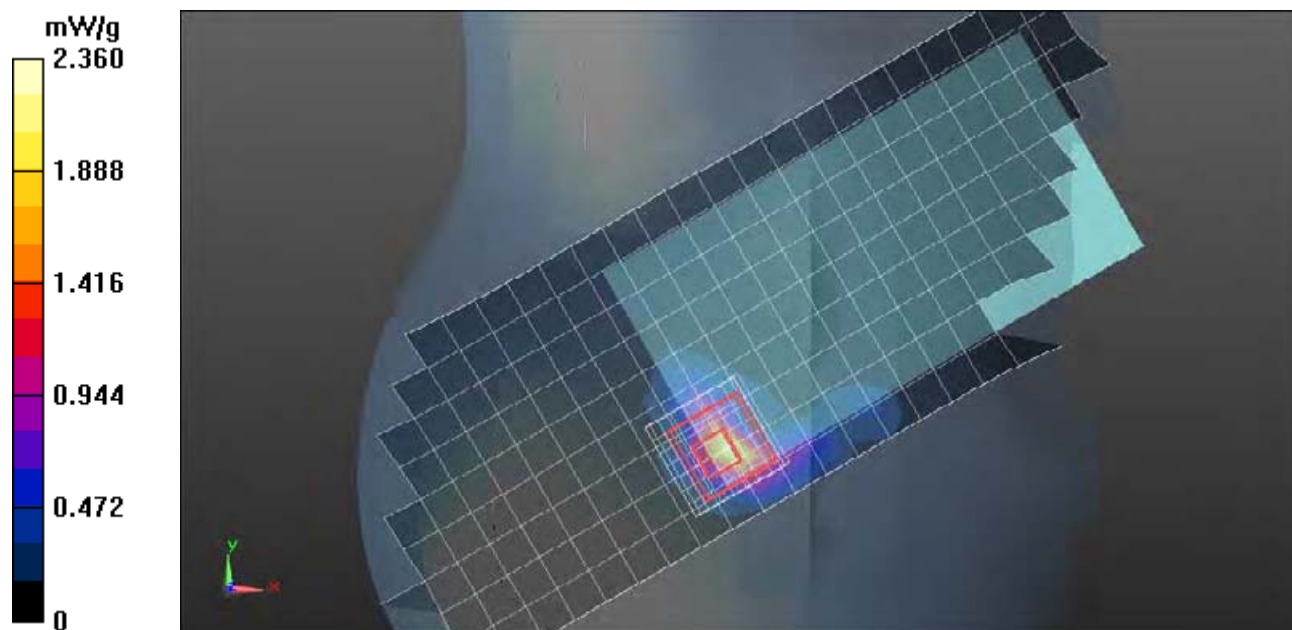
Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 2.21 mW/g

DASY5 - 5-6GHz, Right Head Short Scan for Drift - Rev.1 (6-July-12)/Right Head Template/7x7x12 Zoom Scan (5-6GHz) (8x8x6)/Cube 0:

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

Reference Value = 22.626 V/m; Power Drift = 0.05 dB; Peak SAR (extrapolated) = 5.190 mW/g

SAR(1 g) = 1.07 mW/g; SAR(10 g) = 0.296 mW/g; Maximum value of SAR (measured) = 2.36 mW/g



Test Laboratory: Motorola Mobility - LTE Band 13 Left Head Tilt

DUT: Serial: LVQV2L0031, FCC ID: IHDT56NG1

Procedure Notes: Pwr Step: N/A Battery Model #: INTERNAL Test Config: ROTATED

Start RB: 0 # RBs: 1 RB Allocation: 1 RB @ Low End Modulation: QPSK

Communication System: _LTE Band 13; Frequency: 782 MHz; Duty Cycle: 1:1

Medium: Low Freq Head; Medium parameters used: $f = 782$ MHz; $\sigma = 0.89$ mho/m; $c_r = 42.7$; $\rho = 1000$ kg/m³

DASY4 Configuration:

- Probe: ES3DV3 - SN3124; ConvF(6.26, 6.26, 6.26); 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 14.6.5 (6469)

DASY5, SAM - Phone against Left Head Template, Rev.3 (29-Sept-11)/Left Head Template/Area Scan - Normal Extended (15mm) (7x17x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.234 mW/g

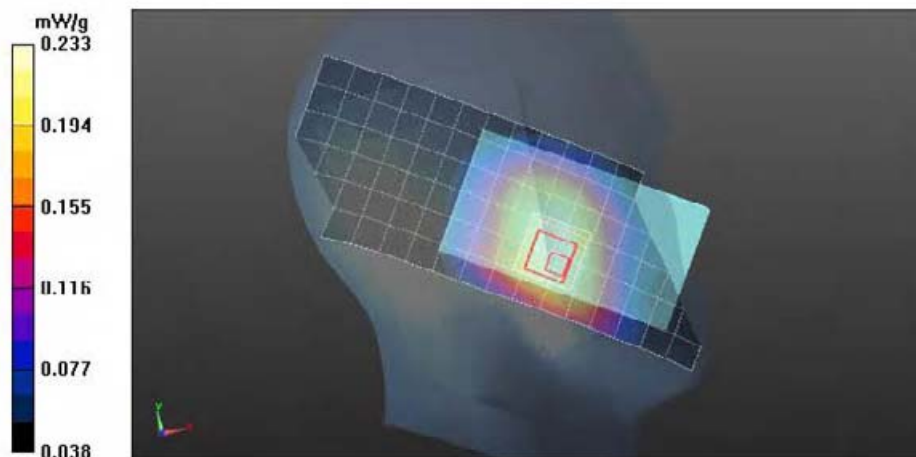
DASY5, SAM - Phone against Left Head Template, Rev.3 (29-Sept-11)/Left Head Template/5x5x7 Zoom Scan (<=3GHz) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 16.228 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.282 mW/g

SAR(1 g) = 0.225 mW/g; SAR(10 g) = 0.183 mW/g

Maximum value of SAR (measured) = 0.233 mW/g



Test Laboratory: Motorola Mobility - CDMA 1x 800MHz Right Head Tilt

DUT: Serial: LVQV2L0031, FCC ID: IHDT56NG1

Procedure Notes: Pwr Step: All Up Bits Battery Model #: Internal DEVICE POSITION: RIIT

Communication System: CDMA, Frequency: 836.52 MHz, Duty Cycle: 1.1

Medium: Low Freq Head; Medium parameters used: $f = 835$ MHz; $\sigma = 0.92$ mho/m; $\epsilon_r = 40.8$; $\rho = 1000$ kg/m³

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-Fcb-12); Type: SAM v4.0; Serial: TP-1156;
- SEMCAD X Version 14.6.5 (6469)

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

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

Maximum value of SAR (measured) = 0.230 mW/g

DASY5, SAM - Phone against RIGHT head template - Rev.2 (29-Sept-11)/Right Head Template/5x5x7 Zoom Scan (<=3GHz)

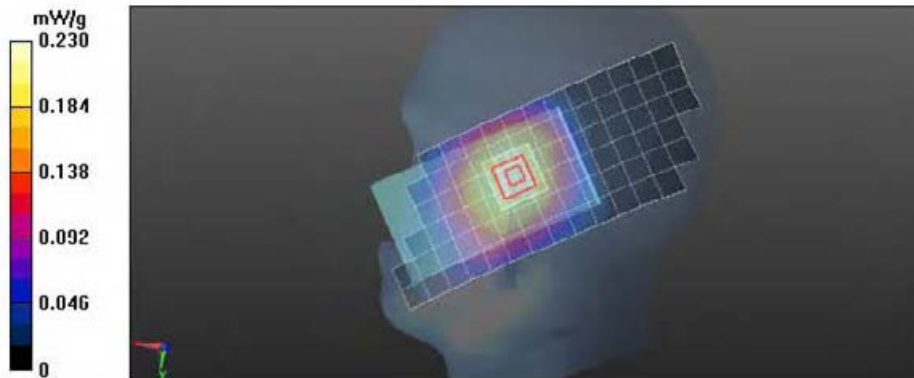
(5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 16.182 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.275 mW/g

SAR(1 g) = 0.225 mW/g; SAR(10 g) = 0.174 mW/g

Maximum value of SAR (measured) = 0.236 mW/g



Test Laboratory: Motorola Mobility - EVDO 800 MHz (bottom Tx Antenna) Left Head Tilt

DUT: Serial: LVQV2L0031, FCC ID: IIDT56NG1

Procedure Notes: Pwr Step: ALL UP BITS Battery Model #: INTERNAL Test Config. TILTED / EVDO Rev O (RTAP)

Communication System: _CDMA; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium: Low Freq Head; Medium parameters used: $f = 835$ MHz; $\sigma = 0.93$ mho/m; $c_r = 40.5$; $\rho = 1000$ kg/m³

DASY4 Configuration:

- Probe: ES3DV3 - SN3284; ConvF(6.18, 6.18, 6.18); Calibrated: 1/10/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1310; Calibrated: 1/11/2012
- Phantom: R#_ 4 Sugar SAM (extended range), Rev.2 (24-Feb-12); Type: SAM v4.0; Serial: TP-1132;
- SEMCAD X Version 14.6.5 (6469)

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) = 0.241 mW/g

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

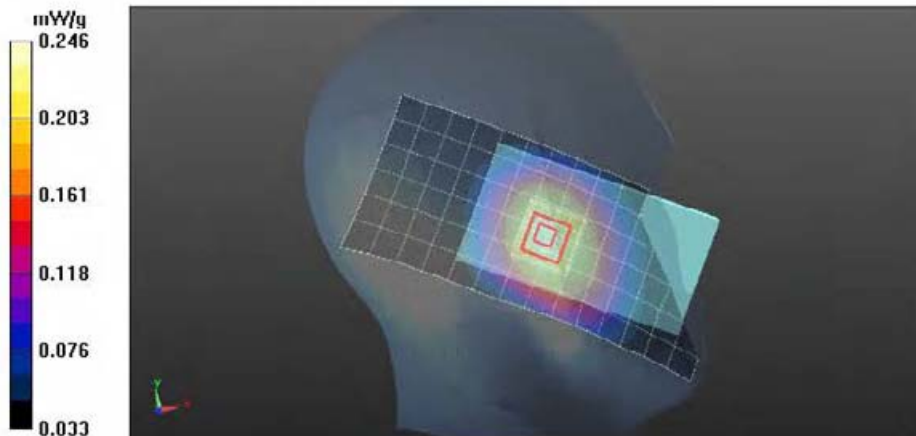
(5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 16 267 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.293 mW/g

SAR(1 g) = 0.235 mW/g; SAR(10 g) = 0.181 mW/g

Maximum value of SAR (measured) = 0.246 mW/g



Test Laboratory: Motorola Mobility - EVDO 800 MHz (top Tx Antenna) Right Head Tilt**DUT: Serial: LVQV2G0014, FCC ID: IIDT56NG1**

Procedure Notes: Pwr Step: Test Mode Battery Model #: INTERNAL Test Config: TILT

Communication System: _CDMA; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium: Low Freq Head; Medium parameters used: $f = 835$ MHz; $\sigma = 0.94$ mho/m; $c_r = 41.4$; $\rho = 1000$ kg/m³

DASY4 Configuration:

- Probe: ES3DV3 - SN3284; ConvF(6.18, 6.18, 6.18); Calibrated: 1/10/2012;
- Sensor Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1310; Calibrated: 1/11/2012
- Phantom: R#_ 4 Sugar SAM (extended range), Rev.2 (24-Feb-12); Type: SAM v4.0; Serial: TP-1132;
- SEMCAD X Version 14.6.5 (6469)

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) = 0.111 mW/g

DASY5, SAM - Phone against RIGHT head template - Rev.2 (29-Sept-11)/Right Head Template/5x5x7 Zoom Scan (<=3GHz)

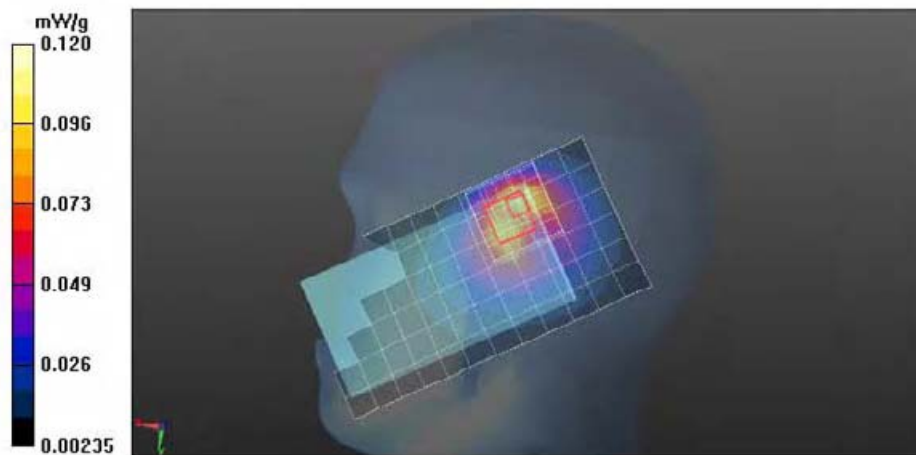
(6x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.434 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.236 mW/g

SAR(1 g) = 0.110 mW/g; SAR(10 g) = 0.059 mW/g

Maximum value of SAR (measured) = 0.120 mW/g



Test Laboratory: Motorola Mobility - CDMA 1x 1900MHz Left Head Tilt**DUT: Serial: LVQV2L0031, FCC ID: IHDT56NG1**

Procedure Notes: Pwr Step: ALL BITS UP Battery Model #: INTERNAL DEVICE POSITION: Left Head TILT

Communication System: CDMA, Frequency: 1880 MHz, Duty Cycle: 1.1

Medium: Regular Glycol Head 1750/1880; Medium parameters used: $f = 1880$ MHz; $\sigma = 1.45$ mho/m; $\epsilon_r = 38.4$; $\rho = 1000$ 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-Fcb-12); Type: SAM v4.0; Serial: TP-1319;
- SEMCAD X Version 14.6.5 (6469)

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) = 0.285 mW/g

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

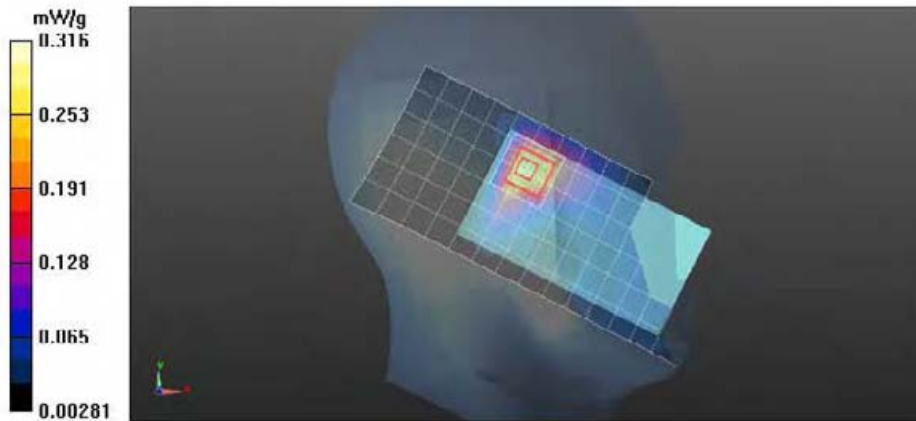
(5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.871 V/m, Power Drill = 0.09 dB

Peak SAR (extrapolated) = 0.475 mW/g

SAR(1 g) = 0.293 mW/g; SAR(10 g) = 0.171 mW/g

Maximum value of SAR (measured) = 0.316 mW/g



Date/Time: 4/17/2012 9:26:57 PM

Test Laboratory: Motorola Mobility - EVDO 1900 Tilt

Serial: LVQV2L0031; FCC ID: IHDT56NG1

Procedure Notes: Pwr Step: ALL UP BITS; Antenna Position: Internal; Accessory Model #: N/A

Battery Model #: Internal; DEVICE POSITION: Tilted

Device Mode TESTER INITIALS: JW/JB EVDO Rev O (RTAP)

Communication System: _CDMA; Frequency: 1880 MHz; Channel Number: 600; 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 - SN3284; ConvF(5.33, 5.33, 5.33); Calibrated: 1/10/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1310; Calibrated: 1/11/2012
- Phantom: R#4 Glycol SAM (extended range), Rev.2 (24-Feb-12); Type: SAM v4.0; Serial: TP-1162;
- ; SEMCAD X Version 14.6.5 (6469)

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) = 0.186 mW/g

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

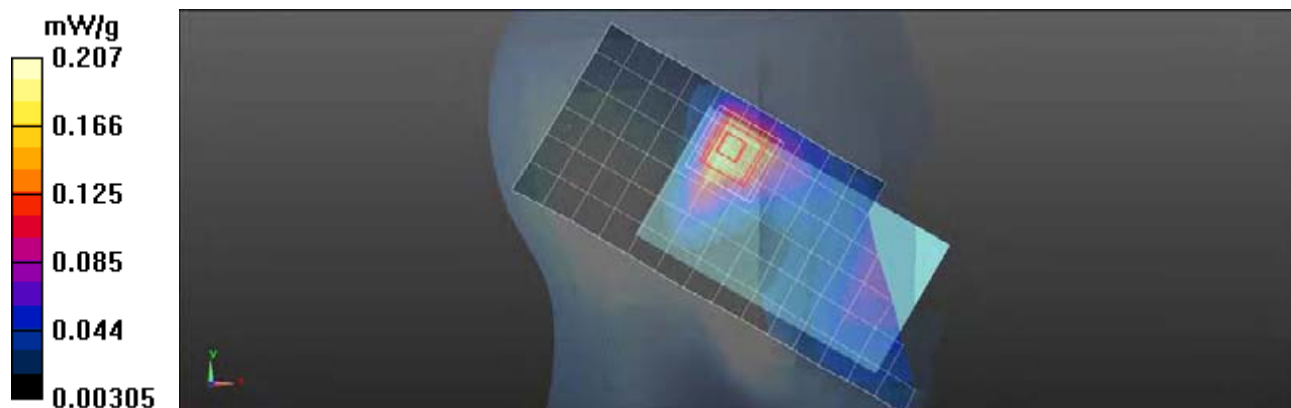
Template/5x5x7 Zoom Scan (<=3GHz) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.306 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.317 mW/g

SAR(1 g) = 0.196 mW/g; SAR(10 g) = 0.113 mW/g

Maximum value of SAR (measured) = 0.207 mW/g



Test Laboratory: Motorola Mobility - EVDO 1900MHz (top Tx antenna) Left Head Tilt**DUT: Serial: LVQV2G0014, FCC ID: IHDT56NG1**

Procedure Notes: Pwr Step: Test Mode Battery Model #: Internal Test Cofnig: Left Head Tilt

Communication System: CDMA, Frequency: 1880 MHz, Duty Cycle: 1.1

Medium: Regular Glycol Head 1750/1880; Medium parameters used: $f = 1880$ MHz; $\sigma = 1.44$ mho/m; $\epsilon_r = 38.8$; $\rho = 1000$ kg/m³

DASY4 Configuration:

- Probe: ES3DV3 - SN3284; ConvF(5.33, 5.33, 5.33); Calibrated: 1/10/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1310; Calibrated: 1/11/2012
- Phantom: R#4 Glycol SAM (extended range), Rev.2 (24-Fcb-12); Type: SAM v4.0; Serial: TP-1162;
- SEMCAD X Version 14.6.5 (6469)

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) = 0.615 mW/g

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

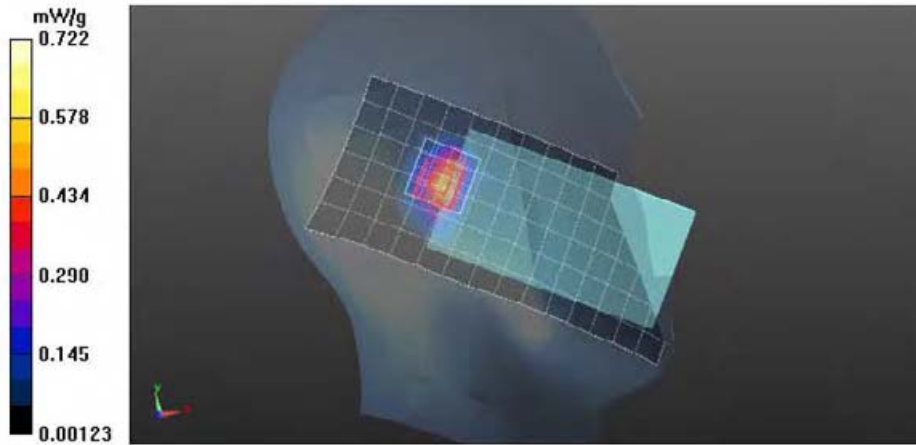
(5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.947 V/m; Power Drift = -0.36 dB

Peak SAR (extrapolated) = 1.312 mW/g

SAR(1 g) = 0.637 mW/g; SAR(10 g) = 0.286 mW/g

Maximum value of SAR (measured) = 0.722 mW/g



Date/Time: 6/27/2012 12:01:28 AM

Test Laboratory: Motorola Mobility - Wi-Fi 2.4 GHz Tilt

Serial: TA648000RP; FCC ID: IHDT56NG1

Procedure Notes: Pwr Step: N/A; Antenna Position: Internal; Accessory Model #: N/A

Battery Model #: Internal; DEVICE POSITION (cheek or rotated): TILT

Device Mode: 802.11b mode, 1 Mbps data rate

Communication System: _Wi-Fi 2450MHz; Frequency: 2437 MHz; Channel Number: 6; Duty Cycle: 1:1

Medium: 2450 Diacetin Head

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.86$ mho/m; $\epsilon_r = 37.6$; $\rho = 1000$ 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: DAE4 Sn1312; Calibrated: 5/29/2012
- Phantom: R#3 5G/2450 WiFi SAM (extended range), Rev.2 (24-Feb-12); Type: SAM v4.0; Serial: TP-1153;
- ; SEMCAD X Version 14.6.5 (6469)

DASY5, SAM - Phone against RIGHT head template - Rev.2 (29-Sept-11)/Right Head Template/Area Scan - Normal (15mm) (7x17x1):

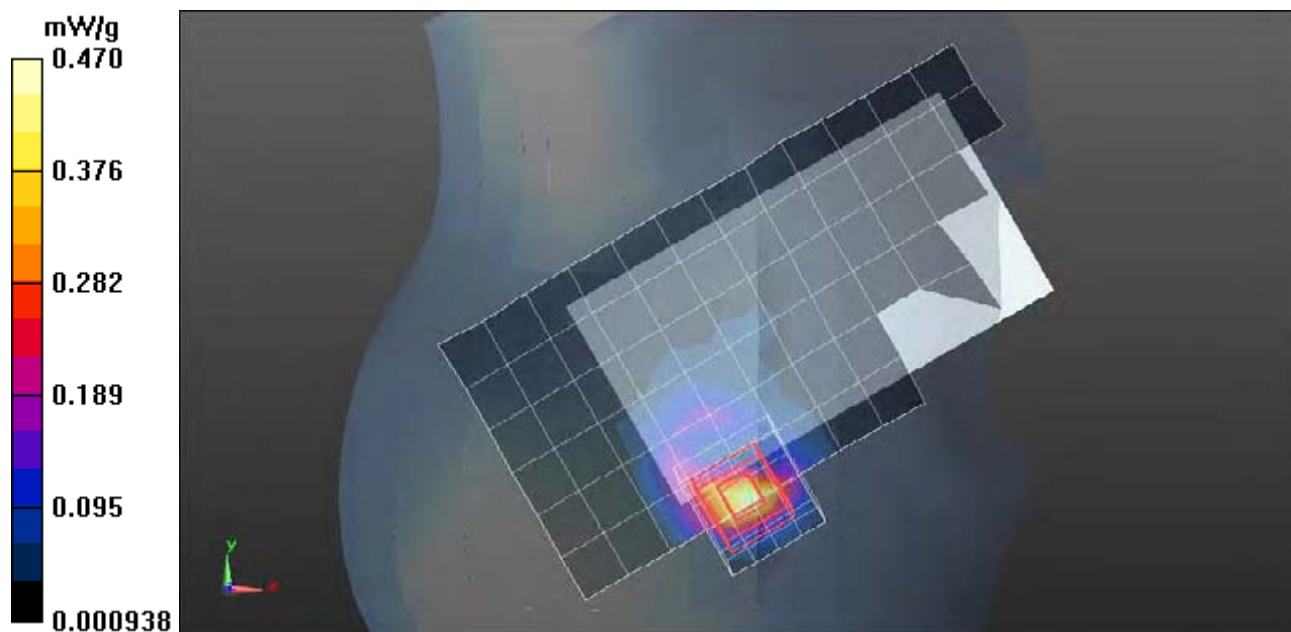
Measurement grid: dx=15mm, dy=15mm; Maximum value of SAR (measured) = 0.504 mW/g

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 = 8.774 V/m; Power Drift = -0.17 dB; Peak SAR (extrapolated) = 1.290 mW/g

SAR(1 g) = 0.484 mW/g; SAR(10 g) = 0.182 mW/g; Maximum value of SAR (measured) = 0.470 mW/g



Date/Time: 6/28/2012 1:33:47 AM

Test Laboratory: Motorola Mobility - Wi-Fi 5.2 GHz Tilt

Serial: TA648000RP; FCC ID: IHDT56NG1

Procedure Notes: Pwr Step: N/A; Antenna Position: Internal; Accessory Model #: N/A

Battery Model #: Internal; DEVICE POSITION (cheek or rotated): TILT

Device Mode: 802.11a mode, 6 Mbps data rate

Communication System: _WIFI 5-6GHz; Frequency: 5220 MHz; Channel Number: 44; Duty Cycle: 1:1

Medium: 5.2 - 5.6 GHz HEAD

Medium parameters used: $f = 5210$ MHz; $\sigma = 4.59$ mho/m; $\epsilon_r = 35.4$; $\rho = 1000$ 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: DAE4 Sn1312; Calibrated: 5/29/2012
- Phantom: R#3 5 GHz HEAD SAM (extended range), Rev.2 (24-Feb-12); Type: SAM v4.0; Serial: TP-1106;
- ; SEMCAD X Version 14.6.5 (6469)

DASY5 - 5-6GHz, Right Head SAM Template - Rev.3 (4-April-12)/Right Head Template/Area Scan - Normal (10mm) (10x25x1):

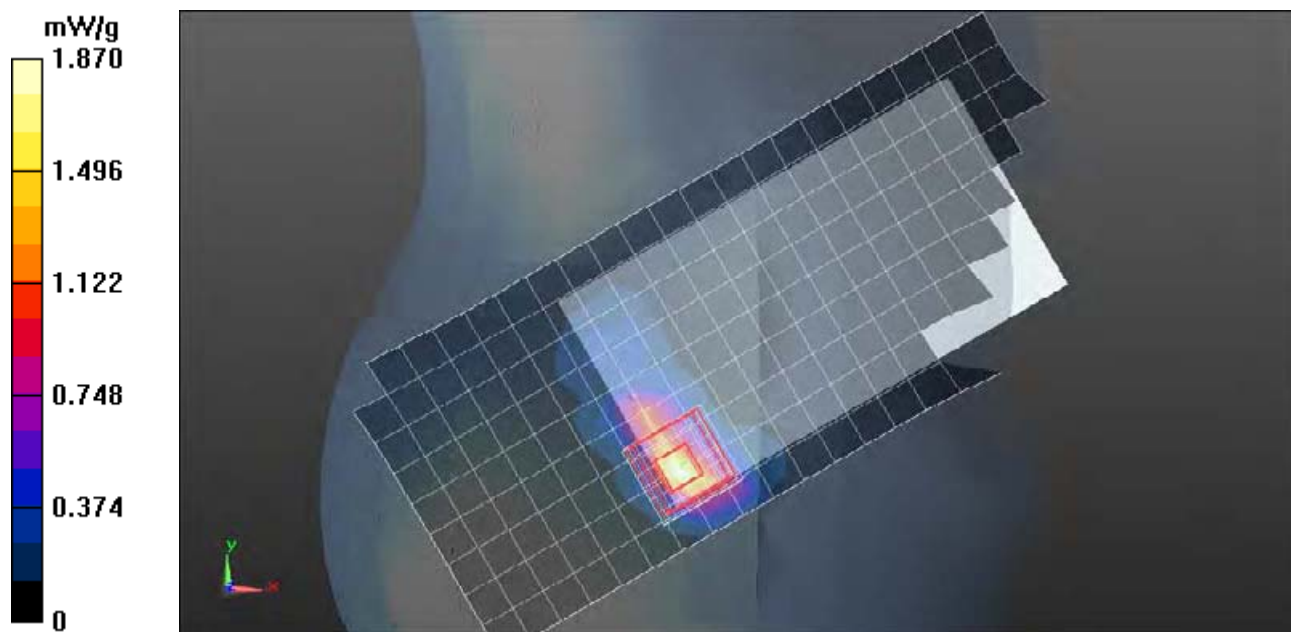
Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 1.94 mW/g

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=4mm, dy=4mm, dz=2mm;

Reference Value = 8.922 V/m; Power Drift = 0.44 dB; Peak SAR (extrapolated) = 3.696 mW/g

SAR(1 g) = 0.918 mW/g; SAR(10 g) = 0.290 mW/g; Maximum value of SAR (measured) = 1.87 mW/g



Date/Time: 6/28/2012 10:27:06 AM

Test Laboratory: Motorola Mobility - Wi-Fi 5.3 GHz Tilt

Serial: TA648000RP; FCC ID: IHDT56NG1

Procedure Notes: Pwr Step: N/A; Antenna Position: Internal; Accessory Model #: N/A

Battery Model #: Internal; DEVICE POSITION: TILTED

Device Mode: 802.11a mode, 6 Mbps data rate

Communication System: _WIFI 5-6GHz; Frequency: 5300 MHz; Channel Number: 60; Duty Cycle: 1:1

Medium: 5.2 - 5.6 GHz HEAD

Medium parameters used: $f = 5290$ MHz; $\sigma = 4.66$ mho/m; $\epsilon_r = 35.2$; $\rho = 1000$ kg/m³

DASY4 Configuration:

- Probe: EX3DV4 - SN3728; ConvF(4.43, 4.43, 4.43); Calibrated: 4/24/2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1312; Calibrated: 5/29/2012
- Phantom: R#3 5 GHz HEAD SAM (extended range), Rev.2 (24-Feb-12); Type: SAM v4.0; Serial: TP-1106;
- ; SEMCAD X Version 14.6.5 (6469)

DASY5 - 5-6GHz, Right Head SAM Template - Rev.3 (4-April-12)/Right Head Template/Area Scan - Normal (10mm) (10x25x1):

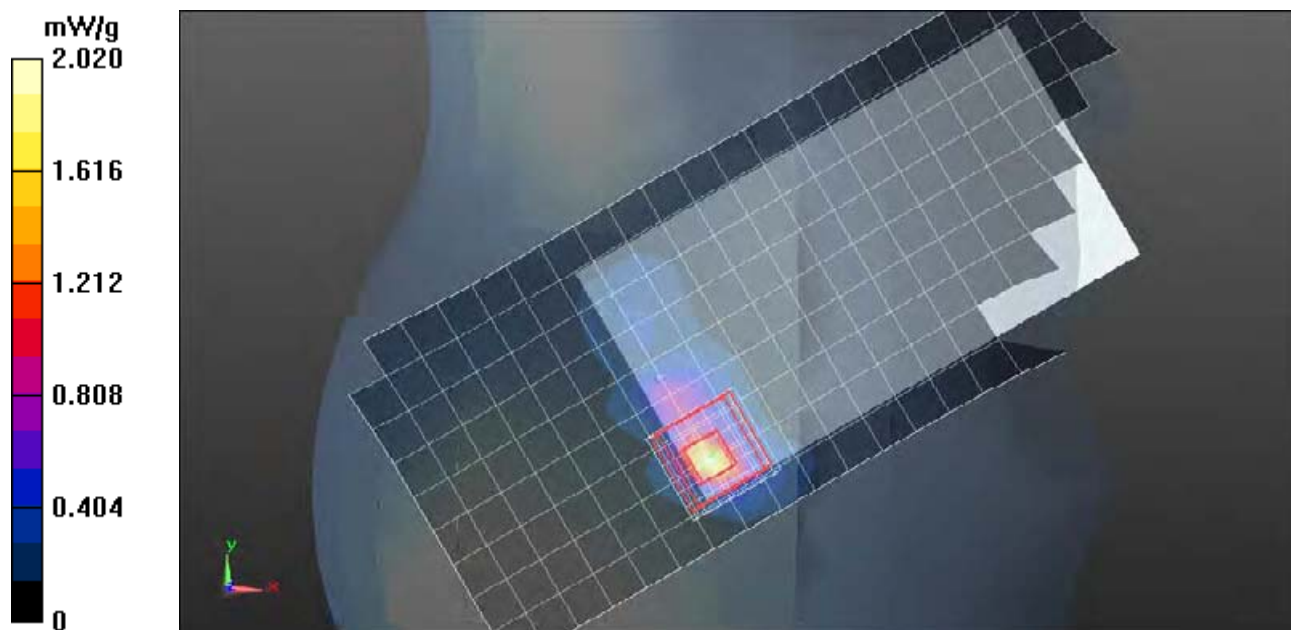
Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 2.00 mW/g

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=4mm, dy=4mm, dz=2mm

Reference Value = 10.495 V/m; Power Drift = -0.34 dB; Peak SAR (extrapolated) = 4.165 mW/g

SAR(1 g) = 0.916 mW/g; SAR(10 g) = 0.241 mW/g; Maximum value of SAR (measured) = 2.02 mW/g



Date/Time: 6/28/2012 7:48:24 PM

Test Laboratory: Motorola Mobility - Wi-Fi 5.6 GHz Tilt

Serial: TA648000RP; FCC ID: IHDT56NG1

Procedure Notes: Pwr Step: N/A; Antenna Position: Internal; Accessory Model #: N/A

Battery Model #: Internal; DEVICE POSITION (cheek or rotated): TILT

Device Mode: 802.11a mode, 6 Mbps data rate

Communication System: _WIFI 5-6GHz; Frequency: 5680 MHz; Channel Number: 136; Duty Cycle: 1:1

Medium: 5.2 - 5.6 GHz HEAD

Medium parameters used: $f = 5600$ MHz; $\sigma = 5.09$ mho/m; $\epsilon_r = 34.6$; $\rho = 1000$ kg/m³

DASY4 Configuration:

- Probe: EX3DV4 - SN3728; ConvF(4.14, 4.14, 4.14); Calibrated: 4/24/2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1312; Calibrated: 5/29/2012
- Phantom: R#3 5 GHz HEAD SAM (extended range), Rev.2 (24-Feb-12); Type: SAM v4.0; Serial: TP-1106;
- ; SEMCAD X Version 14.6.5 (6469)

DASY5 - 5-6GHz, Right Head SAM Template - Rev.3 (4-April-12)/Right Head Template/Area Scan - Normal (10mm) (10x25x1):

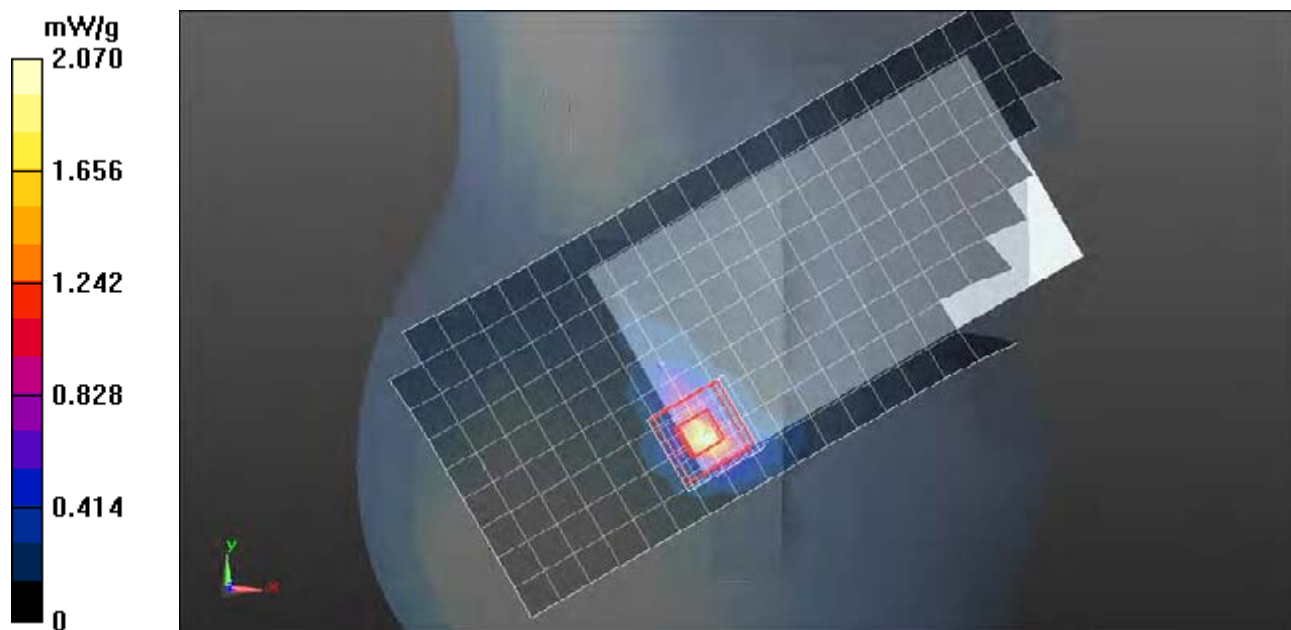
Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 2.10 mW/g

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=4mm, dy=4mm, dz=2mm

Reference Value = 7.133 V/m; Power Drift = 0.11 dB; Peak SAR (extrapolated) = 4.113 mW/g

SAR(1 g) = 0.925 mW/g; SAR(10 g) = 0.252 mW/g; Maximum value of SAR (measured) = 2.07 mW/g



Date/Time: 6/29/2012 12:17:54 AM

Test Laboratory: Motorola Mobility - Wi-Fi 5.8 GHz Tilt

Serial: TA648000RP; FCC ID: IHDT56NG1

Procedure Notes: Pwr Step: N/A; Antenna Position: Internal; Accessory Model #: N/A

Battery Model #: Internal; DEVICE POSITION (cheek or rotated): TILT

Device Mode: 802.11a mode, 6 Mbps data rate

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

Medium: 5.785 GHz HEAD

Medium parameters used: $f = 5785$ MHz; $\sigma = 5.29$ mho/m; $\epsilon_r = 34.3$; $\rho = 1000$ kg/m³

DASY4 Configuration:

- Probe: EX3DV4 - SN3728; ConvF(4.23, 4.23, 4.23); Calibrated: 4/24/2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1312; Calibrated: 5/29/2012
- Phantom: R#3 5 GHz HEAD SAM (extended range), Rev.2 (24-Feb-12); Type: SAM v4.0; Serial: TP-1106;
- ; SEMCAD X Version 14.6.5 (6469)

DASY5 - 5-6GHz, Right Head SAM Template - Rev.3 (4-April-12)/Right Head Template/Area Scan - Normal (10mm) (10x25x1):

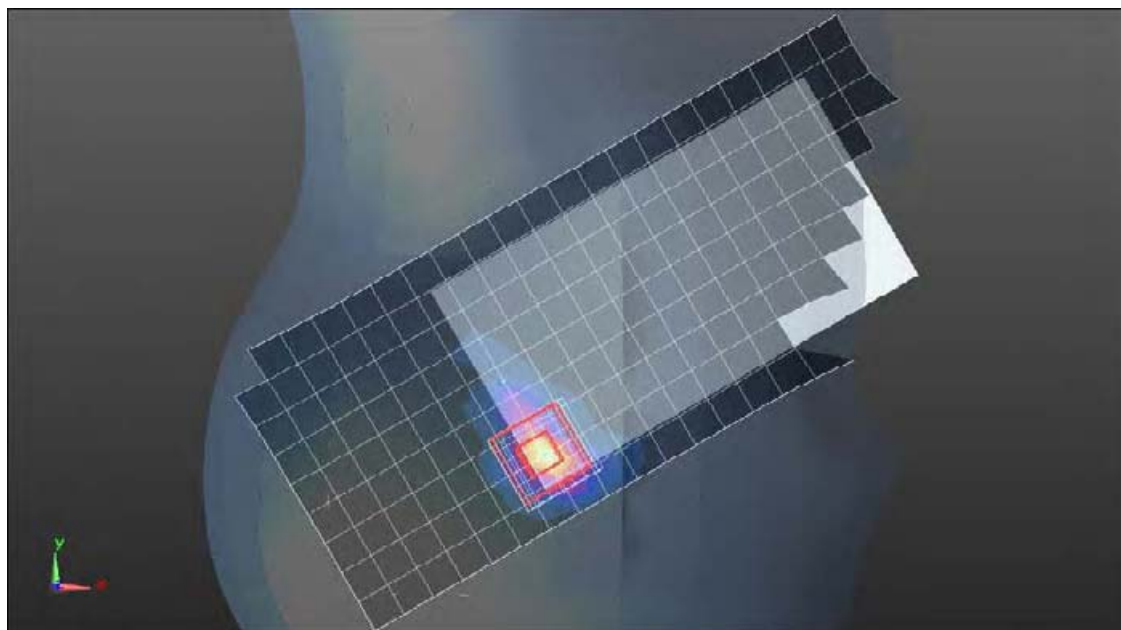
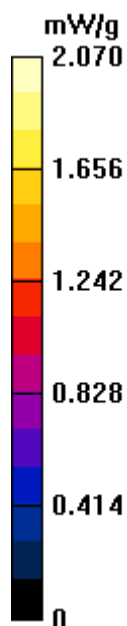
Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 2.12 mW/g

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=4mm, dy=4mm, dz=2mm

Reference Value = 7.324 V/m; Power Drift = 0.34 dB; Peak SAR (extrapolated) = 4.343 mW/g

SAR(1 g) = 0.941 mW/g; SAR(10 g) = 0.258 mW/g; Maximum value of SAR (measured) = 2.07 mW/g



Appendix 3

SAR distribution plots for Body Worn Test Results

Test Laboratory: Motorola Mobility - LTE Band 13 Body Worn

DUT: Serial: LVQV2L0031, FCC ID: IIDT56NG1

Procedure Notes: Pwr Step, MAX Battery Model #, INTERNAL Test Config, Body worn, Front of Phone 25mm from Phantom

Start RB: 0 ; # RBs: 1 RB Allocation: 1 RB @ Low End Modulation: QPSK

Communication System: _LTE Band 13; Frequency: 782 MHz; Duty Cycle: 1:1

Medium: Low Freq Body; Medium parameters used: $f = 782$ MHz; $\sigma = 0.93$ mho/m; $\epsilon_r = 55.5$; $\rho = 1000$ kg/m³

DASY4 Configuration:

- Probe: ES3DV3 - SN3124; ConvF(6.09, 6.09, 6.09); 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 14.6.5 (6469)

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) = 0.308 mW/g

DASY5, Triple Flat Phone Template - Rev.5 (6-April-12)/Triple Flat Phone Template/5x5x7 Zoom Scan (<-3GHz) (5x5x7)/Cube 0:

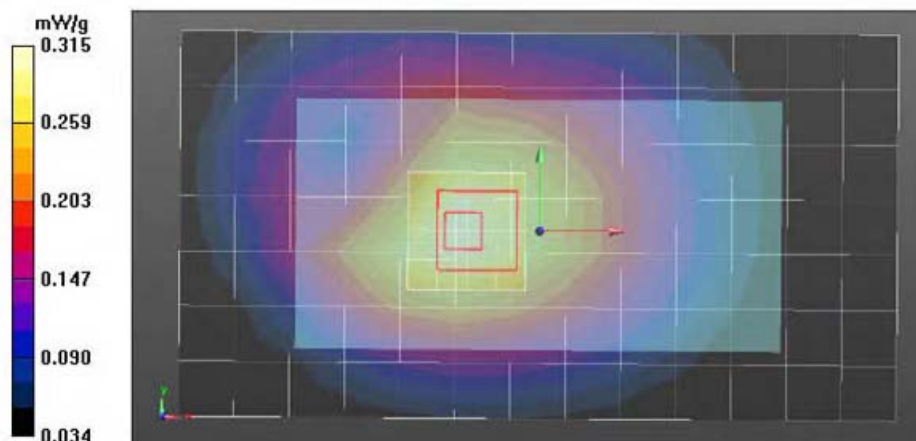
Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 18.462 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 0.388 mW/g

SAR(1 g) = 0.298 mW/g; SAR(10 g) = 0.221 mW/g

Maximum value of SAR (measured) = 0.315 mW/g



Test Laboratory: Motorola Mobility - CDMA 1x 800MHz Body Worn**DUT: Serial: LVQV2L0031, FCC ID: IIDT56NG1**

Procedure Notes: Pwr Step: ALL BITS UP Battery Model #: INTERNAL BODY WORN, BACK OF PHONE 25MM FROM PHANTOM

Communication System: _CDMA; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium: Low Freq Body; Medium parameters used: $f = 835$ MHz; $\sigma = 1$ mho/m; $\epsilon_r = 53.5$; $\rho = 1000$ kg/m³

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 14.6.5 (6469)

DASY5, Triple Flat Phone Template - Rev.4 (7-Oct-11)/Triple Flat Phone Template/Area Scan - Normal Body (15mm) (12x8x1):

Measurement grid: dx=15mm, dy=15mm

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

DASY5, Triple Flat Phone Template - Rev.4 (7-Oct-11)/Triple Flat Phone Template/5x5x7 Zoom Scan (<=3GHz) (5x5x7)/Cube 0:

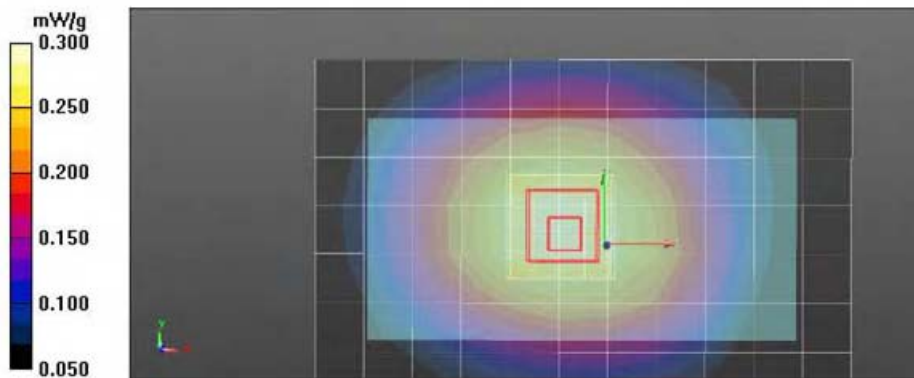
Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.666 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.371 mW/g

SAR(1 g) = 0.287 mW/g; SAR(10 g) = 0.216 mW/g

Maximum value of SAR (measured) = 0.300 mW/g



Test Laboratory: Motorola Mobility - EVDO 800MHz Body Worn (bottom Tx antenna)

DUT: Phone; Serial: LVQV2L0031, FCC ID: IHDT56NG1

Procedure Notes: Pwr Step: ALL UP BITS Battery Model #: INTERNAL Test Config - back 25mm EVDO REV O (RTAP),

Communication System: _CDMA; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium: Low Freq Body; Medium parameters used: $f = 835$ MHz; $\sigma = 1$ mho/m; $\epsilon_r = 55.1$; $\rho = 1000$ kg/m³

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 14.6.5 (6469)

DASY5, Triple Flat Phone Template - Rev.4 (7-Oct-11)/Triple Flat Phone Template/Area Scan - Normal Body (15mm) (14x8x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.417 mW/g

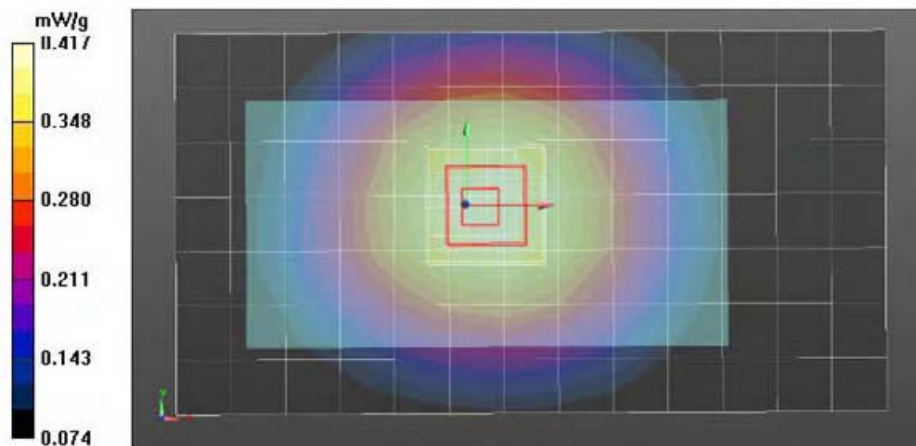
DASY5, Triple Flat Phone Template - Rev.4 (7-Oct-11)/Triple Flat Phone Template/5x5x7 Zoom Scan (<=3GHz) (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 20.015 V/m, Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.506 mW/g

SAR(1 g) = 0.398 mW/g; SAR(10 g) = 0.301 mW/g



Date/Time: 6/27/2012 5:22:29 PM

Test Laboratory: Motorola Mobility - EVDO 800 (Top TX Antenna) Body Worn**Serial: LVQV2G0014; FCC ID: IHDT56NG1**

Procedure Notes: Pwr Step: N/A; Antenna Position: Internal; Battery Model #: Internal

Device Position: Body Worn, Back of Phone 25mm from Phantom

Communication System: _CDMA; Frequency: 836.52 MHz; Channel Number: 384; Duty Cycle: 1:1

Medium: Low Freq Body

Medium parameters used: $f = 835$ MHz; $\sigma = 0.99$ mho/m; $\epsilon_r = 55.8$; $\rho = 1000$ kg/m³

DASY4 Configuration:

- Probe: ES3DV3 - SN3115; ConvF(5.89, 5.89, 5.89); 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 14.6.5 (6469)

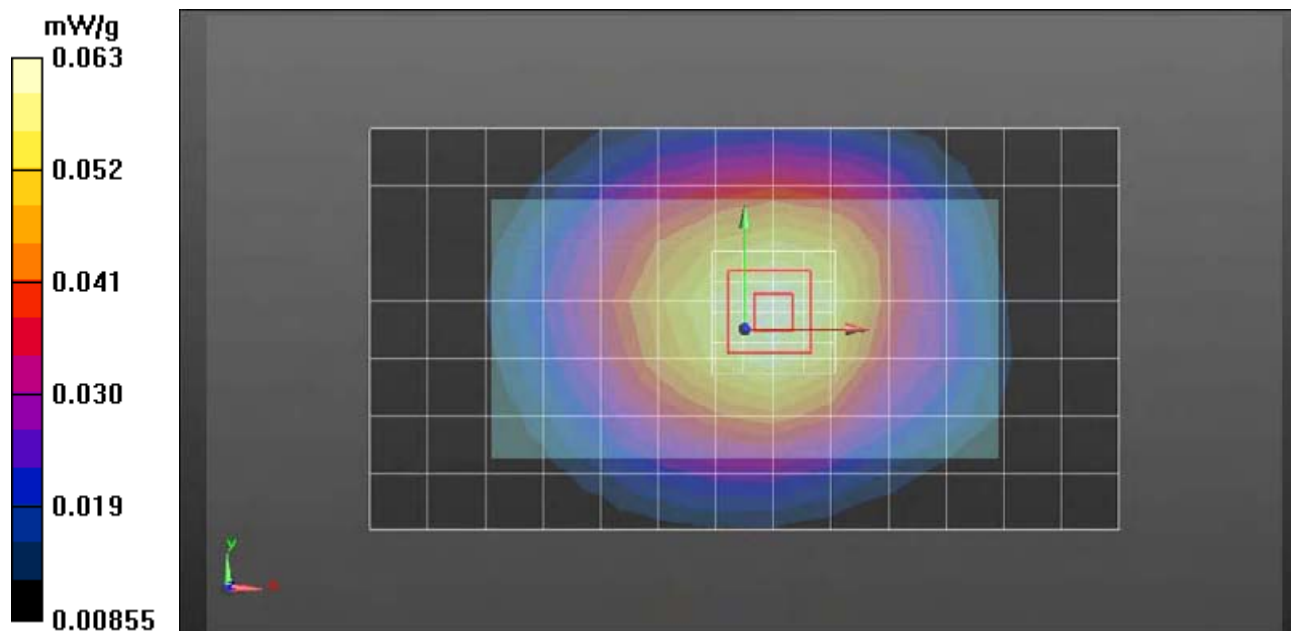
DASY5, Triple Flat Phone Template - Rev.5 (6-April-12)/Triple Flat Phone Template/Area Scan - Normal Body (15mm) (14x8x1):

Measurement grid: dx=15mm, dy=15mm; Maximum value of SAR (measured) = 0.0626 mW/g

DASY5, Triple Flat Phone Template - Rev.5 (6-April-12)/Triple Flat Phone Template/5x5x7 Zoom Scan (<=3GHz) (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.036 V/m; Power Drift = -0.02 dB; Peak SAR (extrapolated) = 0.078 mW/g

SAR(1 g) = 0.060 mW/g; SAR(10 g) = 0.045 mW/g; Maximum value of SAR (measured) = 0.0631 mW/g

Test Laboratory: Motorola Mobility - CDMA 1x 1900MHz Body Worn

DUT: Serial: LVQV2L0031, FCC ID: IHDT56NG1

Procedure Notes: Pwr Step: ALL BITS UP Battery Model #: INTERNAL BODY WORN, BACK OF PHONE 25MM FROM PHANTOM

Communication System: CDMA, Frequency: 1880 MHz, Duty Cycle: 1.1

Medium: Regular Glycol Body 1750/1880; Medium parameters used: $f = 1880$ MHz; $\sigma = 1.57$ mho/m; $\epsilon_r = 52.7$; $\rho = 1000$ kg/m³

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 14.6.5 (6469)

DASY5, Triple Flat Phone Template - Rev.4 (7-Oct-11)/Triple Flat Phone Template/Area Scan - Normal Body (15mm) (12x8x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.475 mW/g

DASY5, Triple Flat Phone Template - Rev.4 (7 Oct 11)/Triple Flat Phone Template/5x5x7 Zoom Scan (<=3GHz) (5x5x7)/Cube 0:

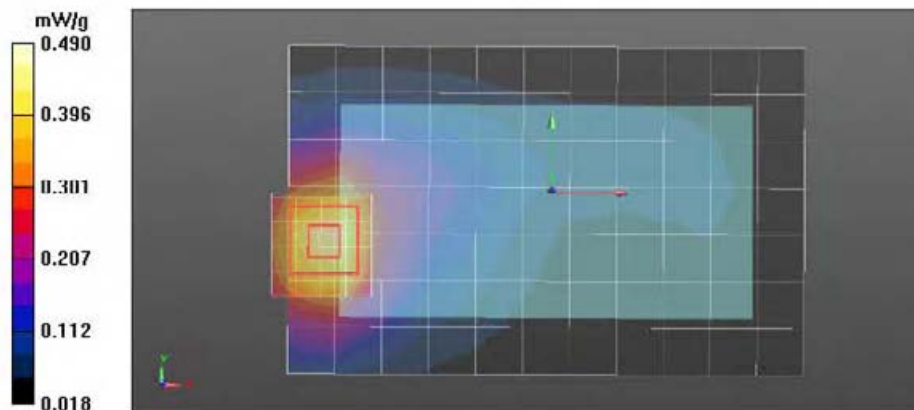
Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 16.659 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.722 mW/g

SAR(1 g) = 0.456 mW/g; SAR(10 g) = 0.283 mW/g

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



Test Laboratory: Motorola Mobility - EVDO 1900MHz Body Worn

DUT: Serial: LVQV2L0031, FCC ID: IIDT56NG1

Procedure Notes: Pwr Step: ALL UP BITS Battery Model #: INTERNAL Test Cong = back 25mm EVDO REV O (RTAP),
Communication System: CDMA, Frequency: 1880 MHz, Duty Cycle: 1.1

Medium: Regular Glycol Body 1750/1880; Medium parameters used: $f = 1880$ MHz; $\sigma = 1.59$ mho/m; $\epsilon_r = 52$; $\rho = 1000$ kg/m³

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 14.6.5 (6469)

DASY5, Triple Flat Phone Template - Rev.4 (7-Oct-11)/Triple Flat Phone Template/Area Scan - Normal Body (15mm) (14x8x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.473 mW/g

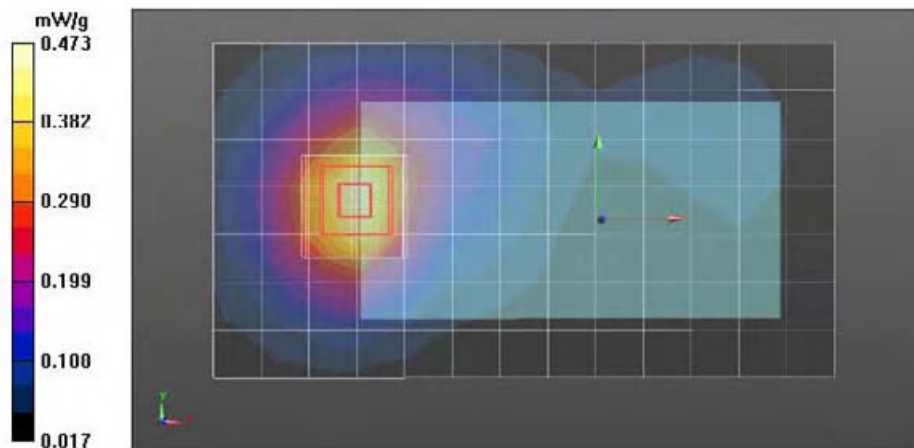
DASY5, Triple Flat Phone Template - Rev.4 (7-Oct-11)/Triple Flat Phone Template/5x5x7 Zoom Scan (<3GHz) (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 16.703 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.683 mW/g

SAR(1 g) = 0.440 mW/g; SAR(10 g) = 0.274 mW/g



Test Laboratory: Motorola Mobility - EVDO 1900 (top Tx antenna) Body Worn

DUT: Serial: LVQV2G0014, FCC ID: IIIDT56NG1

Procedure Notes: Pwr Step. Test Mode Battery Model #: INTERNAL Test Config. front of phone 25mm from phantom

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

Medium: Regular Glycol Body 1750/1880; Medium parameters used: $f = 1880$ MHz; $\sigma = 1.58$ mho/m; $\epsilon_r = 53.2$; $\rho = 1000$ kg/m³

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 14.6.5 (6469)

DASY5, Triple Flat Phone Template - Rev.5 (6-April-12)/Triple Flat Phone Template/Area Scan - Extended Phone (15mm)

(19x8x1): Measurement grid: dx=15mm, dy=15mm

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 (<=3GHz) (5x5x7)/Cube 0:

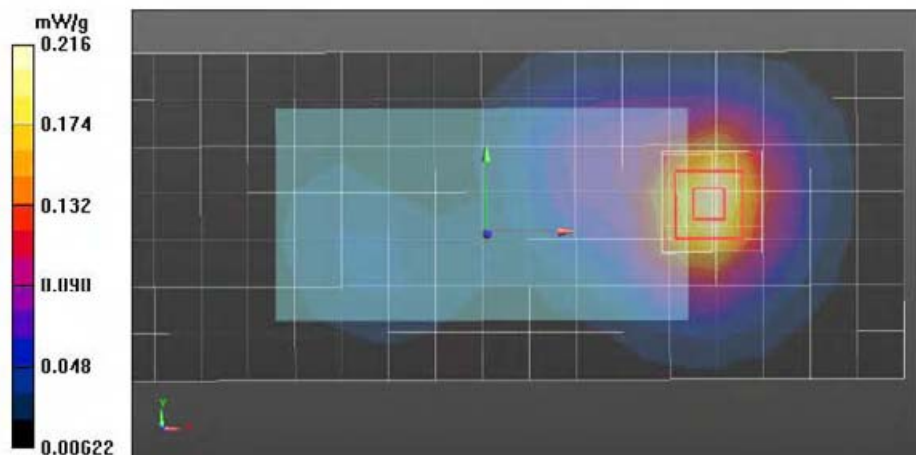
Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.533 V/m; Power Drift = -0.72 dB

Peak SAR (extrapolated) = 0.313 mW/g

SAR(1 g) = 0.198 mW/g; SAR(10 g) = 0.120 mW/g

Maximum value of SAR (measured) = 0.216 mW/g



Date/Time: 6/26/2012 6:23:38 PM

Test Laboratory: Motorola Mobility - Wi-Fi 2.4 GHz Body-Worn

Serial: TA648000RP; FCC ID: IHDT56NG1

Procedure Notes: Pwr Step: N/A; Antenna Position: Internal; Battery Model #: Internal

Device Position: Body Worn, Front of Phone 25mm from Phantom

Device Mode: 802.11b mode, 1 Mbps data rate

Communication System: _Wi-Fi 2450MHz; Frequency: 2437 MHz; Channel Number: 6; Duty Cycle: 1:1

Medium: 2450 Triton Body

Medium parameters used: $f = 2450$ MHz; $\sigma = 2$ mho/m; $\epsilon_r = 50.5$; $\rho = 1000$ kg/m³

DASY4 Configuration:

- Probe: EX3DV4 - SN3728; ConvF(6.84, 6.84, 6.84); Calibrated: 4/24/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1312; Calibrated: 5/29/2012
- Phantom: R#-3, Triple Flat Phantom 5.1C (Rev.4); Type: QD 000 P51 CA; Serial: n/a;
- ; SEMCAD X Version 14.6.5 (6469)

DASY5, Triple Flat Phone Template - Rev.5 (6-April-12)/Triple Flat Phone Template/Area Scan - Normal Body (15mm) (14x8x1):

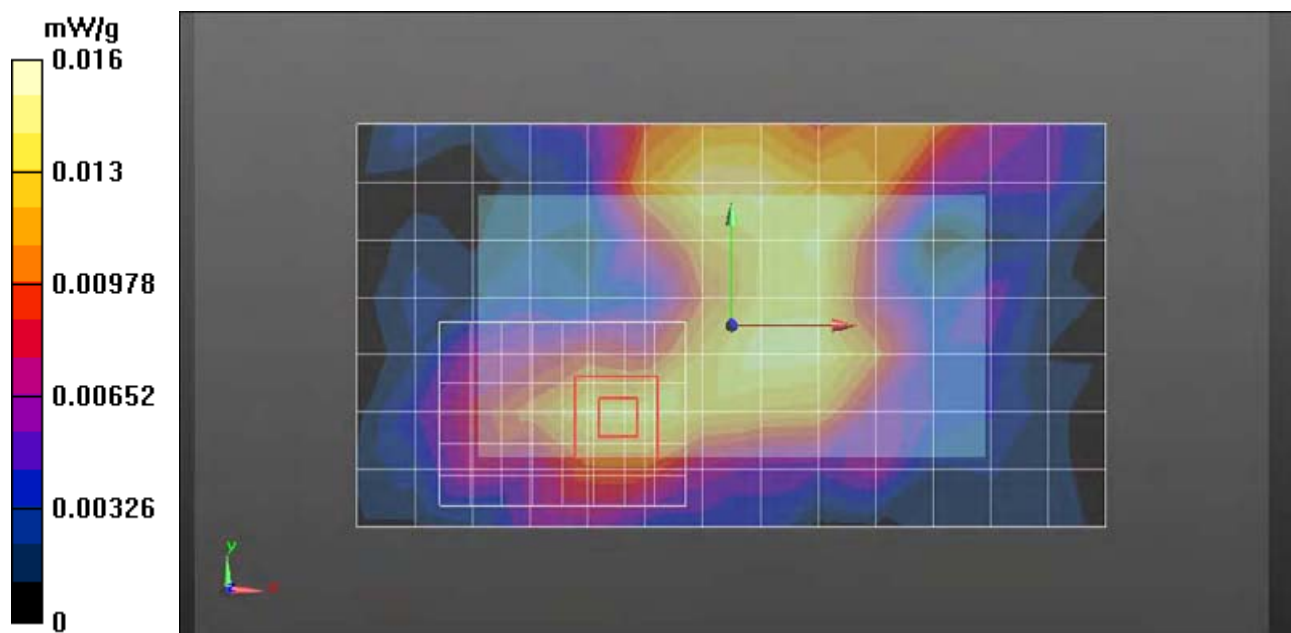
Measurement grid: dx=15mm, dy=15mm; Maximum value of SAR (measured) = 0.0151 mW/g

DASY5, Triple Flat Phone Template - Rev.5 (6-April-12)/Triple Flat Phone Template/5x5x7 Zoom Scan (<=3GHz) (9x7x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.944 V/m; Power Drift = -0.12 dB; Peak SAR (extrapolated) = 0.021 mW/g

SAR(1 g) = 0.014 mW/g; SAR(10 g) = 0.00872 mW/g; Maximum value of SAR (measured) = 0.0163 mW/g



Date/Time: 6/27/2012 6:07:09 PM

Test Laboratory: Motorola Mobility - Wi-Fi 5.2 GHz Body-Worn

Serial: TA648000RP; FCC ID: IHDT56NG1

Procedure Notes: Pwr Step: N/A; Antenna Position: Internal; Battery Model #: Internal

Device Position: Body Worn, Back of Phone 25mm from Phantom

Device Mode: 802.11a mode, 6 Mbps data rate

Communication System: _WIFI 5-6GHz; Frequency: 5220 MHz; Channel Number: 44; Duty Cycle: 1:1

Medium: 5.2 - 5.6 GHz BODY

Medium parameters used: $f = 5210$ MHz; $\sigma = 5.26$ mho/m; $\epsilon_r = 48.1$; $\rho = 1000$ 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: DAE4 Sn1312; Calibrated: 5/29/2012
- Phantom: R#-3, Triple Flat Phantom 5.1C (Rev.4); Type: QD 000 P51 CA; Serial: n/a;
- ; SEMCAD X Version 14.6.5 (6469)

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):

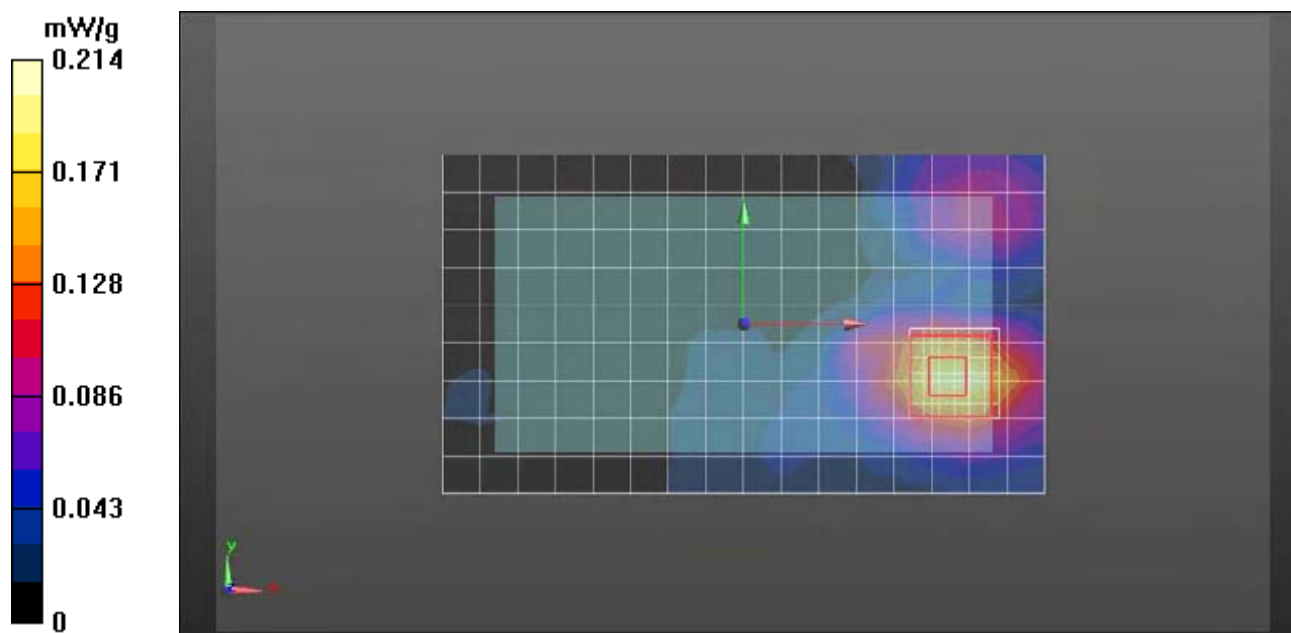
Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 0.204 mW/g

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=4mm, dy=4mm, dz=2mm

Reference Value = 4.834 V/m; Power Drift = 0.09 dB; Peak SAR (extrapolated) = 0.351 mW/g

SAR(1 g) = 0.123 mW/g; SAR(10 g) = 0.048 mW/g; Maximum value of SAR (measured) = 0.214 mW/g



Date/Time: 6/27/2012 6:48:39 PM

Test Laboratory: Motorola Mobility - Wi-Fi 5.3 GHz Body-Worn

Serial: TA648000RP; FCC ID: IHDT56NG1

Procedure Notes: Pwr Step: N/A; Antenna Position: Internal; Battery Model #: Internal

Device Position: Body Worn, Back of Phone 25mm from Phantom

Device Mode: 802.11a mode, 6 Mbps data rate

Communication System: _WIFI 5-6GHz; Frequency: 5300 MHz; Channel Number: 60; Duty Cycle: 1:1

Medium: 5.2 - 5.6 GHz BODY

Medium parameters used: $f = 5290$ MHz; $\sigma = 5.37$ mho/m; $\epsilon_r = 47.9$; $\rho = 1000$ kg/m³

DASY4 Configuration:

- Probe: EX3DV4 - SN3728; ConvF(4.11, 4.11, 4.11); Calibrated: 4/24/2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1312; Calibrated: 5/29/2012
- Phantom: R#-3, Triple Flat Phantom 5.1C (Rev.4); Type: QD 000 P51 CA; Serial: n/a;
- ; SEMCAD X Version 14.6.5 (6469)

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):

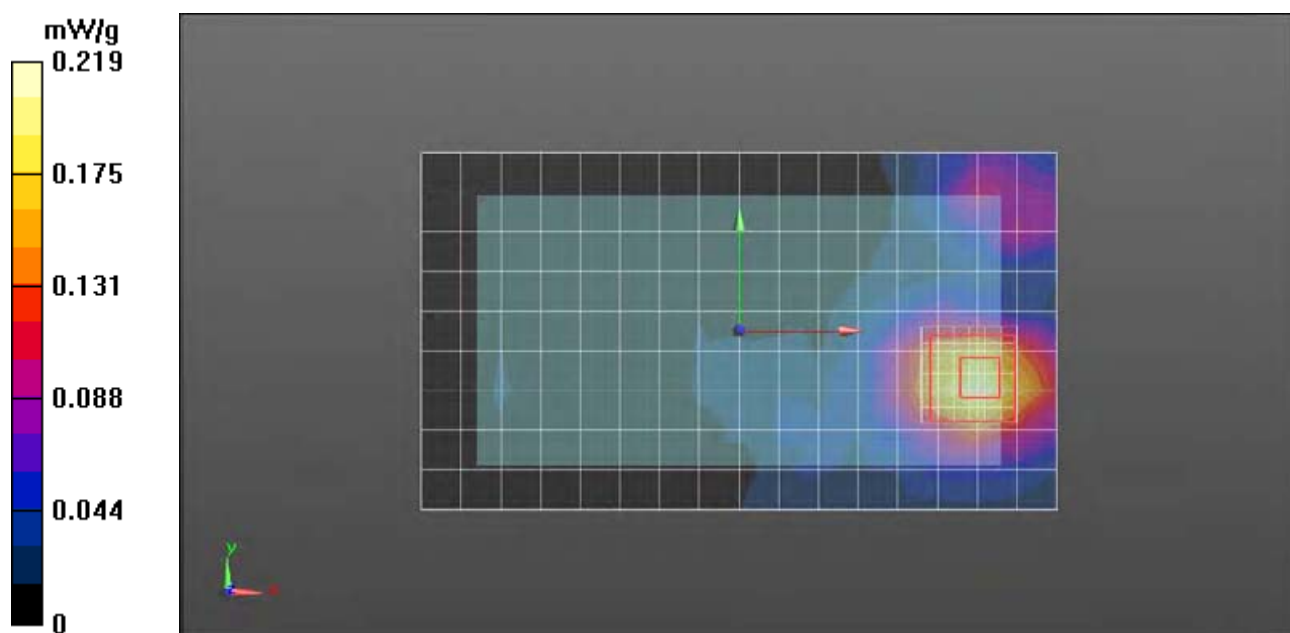
Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 0.209 mW/g

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=4mm, dy=4mm, dz=2mm

Reference Value = 5.362 V/m; Power Drift = -0.24 dB; Peak SAR (extrapolated) = 0.335 mW/g

SAR(1 g) = 0.116 mW/g; SAR(10 g) = 0.045 mW/g; Maximum value of SAR (measured) = 0.219 mW/g



Date/Time: 7/6/2012 1:58:07 PM

Test Laboratory: Motorola Mobility - Wi-Fi 5.6 GHz Body-Worn

Serial: TA648000RP; FCC ID: IHDT56NG1

Procedure Notes: Pwr Step: N/A; Antenna Position: Internal; Battery Model #: Internal

Device Position: Body Worn, Front of Phone 25mm from Phantom

Device Mode: 802.11a mode, 6 Mbps data rate

Communication System: _WIFI 5-6GHz; Frequency: 5680 MHz; Channel Number: 136; Duty Cycle: 1:1

Medium: 5.2 - 5.6 GHz BODY

Medium parameters used: $f = 5600$ MHz; $\sigma = 5.82$ mho/m; $\epsilon_r = 44.3$; $\rho = 1000$ kg/m³

DASY4 Configuration:

- Probe: EX3DV4 - SN3728; ConvF(3.37, 3.37, 3.37); Calibrated: 4/24/2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1312; Calibrated: 5/29/2012
- Phantom: R#-3, Triple Flat Phantom 5.1C (Rev.4); Type: QD 000 P51 CA; Serial: n/a;
- ; SEMCAD X Version 14.6.5 (6469)

DASY5 - 5-6GHz, TRIPLE Flat Phone Template, Rev.2 (4-April-12)/TRIPLE Flat Phone Against Flat Section/Area Scan - Extended Body (10mm) (23x14x1):

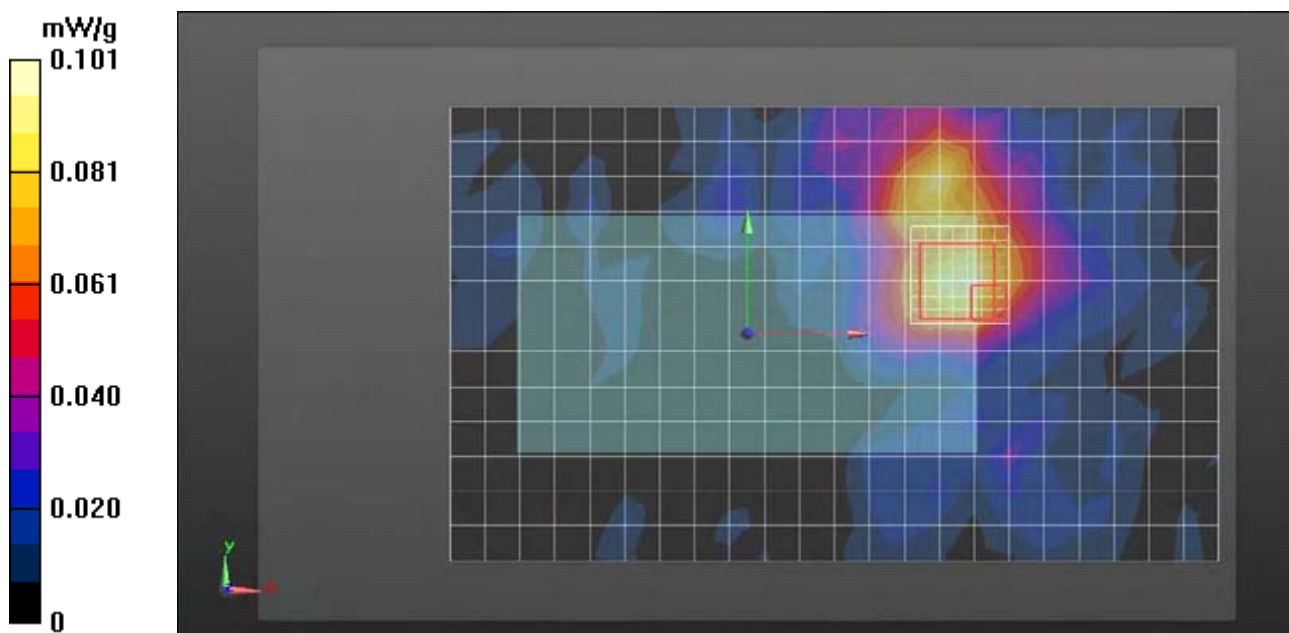
Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 0.0983 mW/g

DASY5 - 5-6GHz, TRIPLE Flat Phone Template, Rev.2 (4-April-12)/TRIPLE Flat Phone Against Flat Section/7x7x12 Zoom Scan (5-6GHz) (8x8x6)/Cube 0:

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

Reference Value = 4.182 V/m; Power Drift = -0.17 dB; Peak SAR (extrapolated) = 0.136 mW/g

SAR(1 g) = 0.040 mW/g; SAR(10 g) = 0.017 mW/g; Maximum value of SAR (measured) = 0.101 mW/g



Date/Time: 7/4/2012 1:20:33 PM

Test Laboratory: Motorola Mobility - Wi-Fi 5.8 GHz Body-Worn

Serial: TA648000RP; FCC ID: IHDT56NG1

Procedure Notes: Pwr Step: N/A; Antenna Position: Internal; Battery Model #: Internal

Device Position: Body Worn, Front of Phone 25mm from Phantom

Device Mode: 802.11a mode, 6 Mbps data rate

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

Medium: 5.785 GHz BODY

Medium parameters used: $f = 5785$ MHz; $\sigma = 5.9$ mho/m; $\epsilon_r = 43.5$; $\rho = 1000$ 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: DAE4 Sn1312; Calibrated: 5/29/2012
- Phantom: R#-3, Triple Flat Phantom 5.1C (Rev.4); Type: QD 000 P51 CA; Serial: n/a;
- ; SEMCAD X Version 14.6.5 (6469)

DASY5 - 5-6GHz, TRIPLE Flat Phone Template, Rev.2 (4-April-12)/TRIPLE Flat Phone Against Flat Section/Area Scan - Extended Body (10mm) (23x14x1):

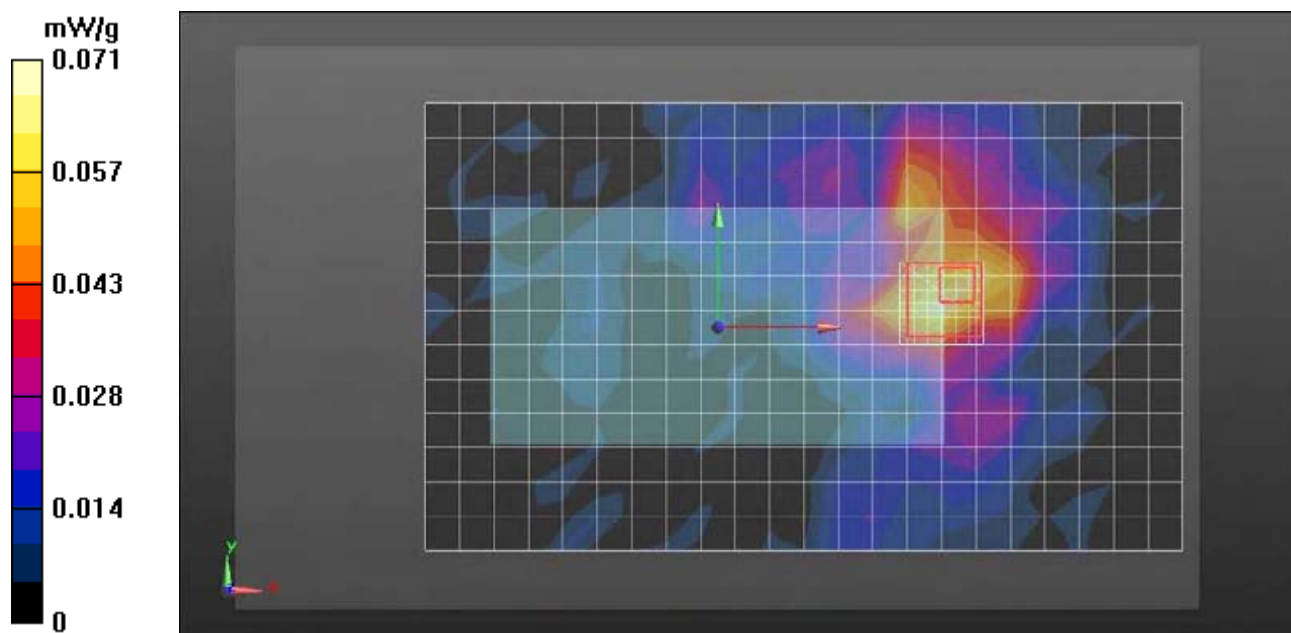
Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 0.0673 mW/g

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=4mm, dy=4mm, dz=2mm

Reference Value = 3.547 V/m; Power Drift = -0.23 dB; Peak SAR (extrapolated) = 0.178 mW/g

SAR(1 g) = 0.033 mW/g; SAR(10 g) = 0.013 mW/g; Maximum value of SAR (measured) = 0.0709 mW/g



Appendix 4

SAR distribution plots for Mobile Hotspot Test Results

Test Laboratory: Motorola Mobility - LTE Band 13 Mobile Hot Spot

DUT: Serial: LVQV2L0031, FCC ID: IHDT56NG1

Procedure Notes: Pwr Step: Max Power Battery Model #: INTERNAL Test Config: front of phone 10mm from phantom

BW 10Mhz QPSK, 1 RB @ Low End Start RB: 0 # RBs: 1

Communication System: _LTE Band 13; Frequency: 782 MHz; Duty Cycle: 1:1

Medium: Low Freq Body; Medium parameters used: $f = 782 \text{ MHz}$; $\sigma = 0.93 \text{ mho/m}$; $\epsilon_r = 54.3$; $\rho = 1000 \text{ kg/m}^3$

DASY4 Configuration:

- Probe: ES3DV3 - SN3284; ConvF(6.36, 6.36, 6.36); 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 14.6.5 (6469)

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) = 0.460 mW/g

DASY5, Triple Flat Phone Template - Rev.5 (6-April-12)/Triple Flat Phone Template/5x5x7 Zoom Scan ($\leq 3\text{GHz}$) (6x6x7)/Cube 0:

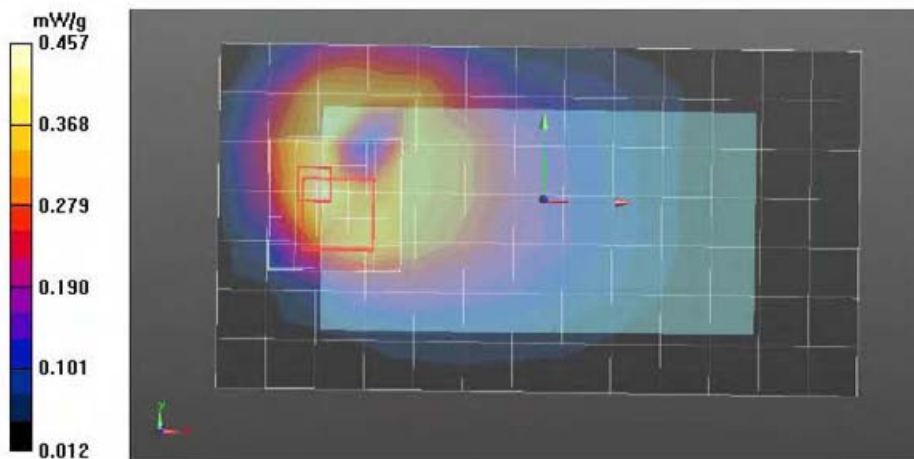
Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 19.924 V/m, Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.733 mW/g

SAR(1 g) = 0.416 mW/g; SAR(10 g) = 0.240 mW/g

Maximum value of SAR (measured) = 0.457 mW/g



Test Laboratory: Motorola Mobility - CDMA 1x 800MHz Mobile Hot Spot

DUT: Serial: LVQV2L0031, FCC ID: IIDT56NGI

Procedure Notes: Pwr Step: ALL UP Battery Model #: INTERNAL Test Config: LEFT EDGE OF PHONE 10MM FROM PHANTOM

Communication System: _CDMA; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium: Low Freq Body; Medium parameters used: $f = 835$ MHz; $\sigma = 0.99$ mho/m; $c_r = 54.7$; $\rho = 1000$ kg/m³

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 14.6.5 (6469)

DASY5, Triple Flat Phone Template - Rev.4 (7-Oct-11)/Triple Flat Phone Template/Area Scan - Normal Body (15mm) (12x8x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.801 mW/g

DASY5, Triple Flat Phone Template - Rev.4 (7-Oct-11)/Triple Flat Phone Template/5x5x7 Zoom Scan (<=3GHz) (5x5x7)/Cube 0:

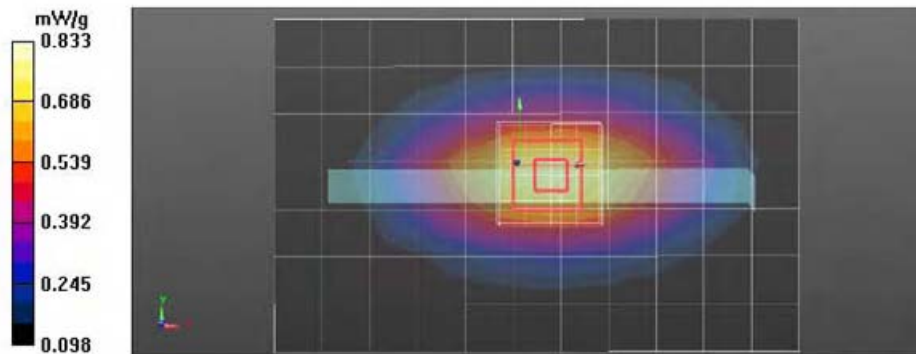
Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 28.397 V/m, Power Drift = 0.02 dB

Peak SAR (extrapolated) = 1.129 mW/g

SAR(1 g) = 0.778 mW/g; SAR(10 g) = 0.530 mW/g

Maximum value of SAR (measured) = 0.833 mW/g



Test Laboratory: Motorola Mobility - EVDO 800MHz Mobile Hot Spot (bottom Tx antenna)

DUT: Serial: LVQV2L0031, FCC ID: IIDT56NG1

Procedure Notes: Pwr Step: ALL UP BITS Battery Model #: INTERNAL Test Config – left edge 10mm EVDO REV O (RTAP),

Communication System: CDMA, Frequency: 836.52 MHz, Duty Cycle: 1.1

Medium: Low Freq Body; Medium parameters used: $f = 835$ MHz; $\sigma = 1$ mho/m; $\epsilon_r = 55.1$; $\rho = 1000$ kg/m³

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 14.6.5 (6469)

DASY5, Triple Flat Phone Template - Rev.4 (7-Oct-11)/Triple Flat Phone Template/Area Scan - Normal Body (15mm) (14x8x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.762 mW/g

DASY5, Triple Flat Phone Template - Rev.4 (7-Oct-11)/Triple Flat Phone Template/5x5x7 Zoom Scan (<-3GHz) (5x5x7)/Cube 0:

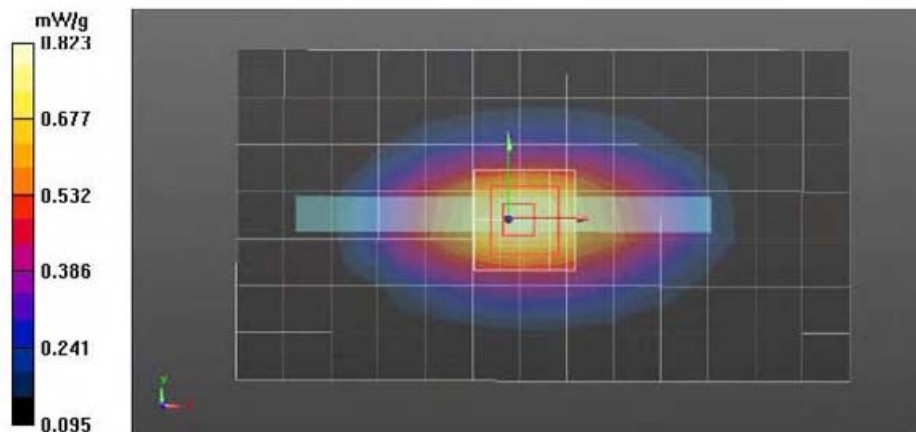
Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 28.587 V/m, Power Drift = 0.03 dB

Peak SAR (extrapolated) = 1.093 mW/g

SAR(1 g) = 0.771 mW/g; SAR(10 g) = 0.527 mW/g

Maximum value of SAR (measured) = 0.823 mW/g



Date/Time: 6/27/2012 11:30:51 PM

Test Laboratory: Motorola Mobility - EVDO 800 (Top TX Antenna) Mobile Hotspot
Serial: LVQV2G0014; FCC ID: IHDT56NG1

Procedure Notes: Pwr Step: N/A; Antenna Position: Internal; Battery Model #: Internal

Device Position: Mobile Hotspot (Body-adjacent) position, Back of Phone 10mm from Phantom

Communication System: _CDMA; Frequency: 836.52 MHz; Channel Number: 384; Duty Cycle: 1:1

Medium: Low Freq Body

Medium parameters used: $f = 835$ MHz; $\sigma = 0.99$ mho/m; $\epsilon_r = 55.8$; $\rho = 1000$ kg/m³

DASY4 Configuration:

- Probe: ES3DV3 - SN3115; ConvF(5.89, 5.89, 5.89); 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 14.6.5 (6469)

DASY5, Triple Flat Phone Template - Rev.5 (6-April-12)/Triple Flat Phone Template/Area Scan - Normal Body (15mm) (14x8x1):

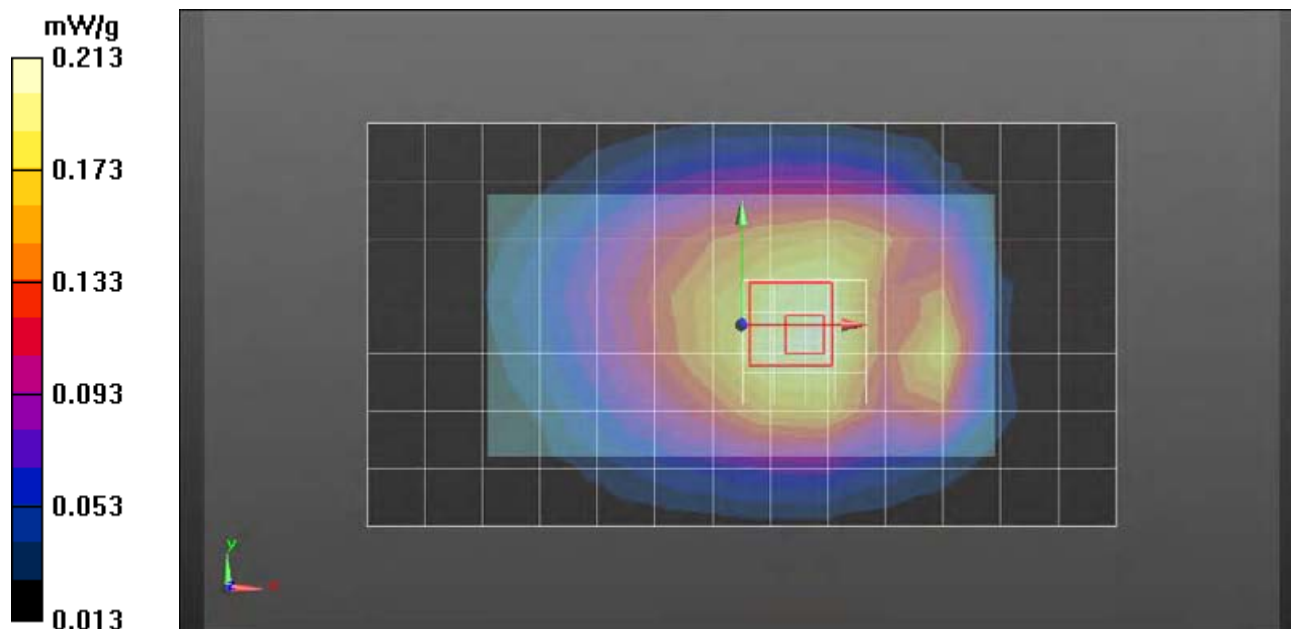
Measurement grid: dx=15mm, dy=15mm; Maximum value of SAR (measured) = 0.204 mW/g

DASY5, Triple Flat Phone Template - Rev.5 (6-April-12)/Triple Flat Phone Template/5x5x7 Zoom Scan (<=3GHz) (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.915 V/m; Power Drift = -0.06 dB; Peak SAR (extrapolated) = 0.263 mW/g

SAR(1 g) = 0.201 mW/g; SAR(10 g) = 0.149 mW/g; Maximum value of SAR (measured) = 0.213 mW/g



Test Laboratory: Motorola Mobility - CDMA 1x 1900 MHz Mobile Hot Spot**DUT: Serial: LVQV2L0031, FCC ID: IIDT56NGI**

Procedure Notes: Pwr Step: ALL UP BITS Battery Model #: INTERNAL Test Config. Body Worn, bottom of phone 10mm from phantom

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

Medium: Regular Glycol Body 1750/1880; Medium parameters used: $f = 1880$ MHz; $\sigma = 1.58$ mho/m; $\epsilon_r = 51.3$; $\rho = 1000$ kg/m³

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 14.6.5 (6469)

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) = 0.704 mW/g

DASY5, Triple Flat Phone Template - Rev.5 (6-April-12)/Triple Flat Phone Template/5x5x7 Zoom Scan (<=3GHz) (5x5x7)/Cube 0:

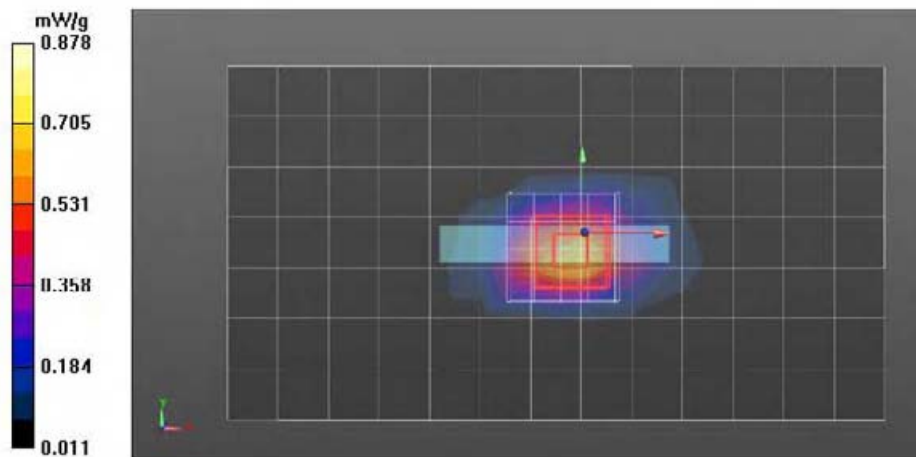
Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 21.031 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 1.418 mW/g

SAR(1 g) = 0.783 mW/g; SAR(10 g) = 0.396 mW/g

Maximum value of SAR (measured) = 0.878 mW/g



Test Laboratory: Motorola Mobility - EVDO 1900 MHz (bottom Tx antenna) Mobile Hot Spot

DUT: Serial: LVQV2L0031, FCC ID: IIDT56NG1

Procedure Notes: Pwr Step: ALL UP BITS Battery Model #: Internal Test CofnigL EVDO Rev O (RTAP) Bottom Edge of phone 10mm from phantom Communication System: CDMA, Frequency: 1908.75 MHz, Duty Cycle: 1.1

Medium: Regular Glycol Body 1750/1880; Medium parameters used: $f = 1880$ MHz; $\sigma = 1.59$ mho/m; $\epsilon_r = 51.2$; $\rho = 1000$ kg/m³

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 14.6.5 (6469)

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) = 0.887 mW/g

DASY5, Triple Flat Phone Template - Rev.5 (6-April-12)/Triple Flat Phone Template/5x5x7 Zoom Scan (<-3GHz) (5x5x7)/Cube 0:

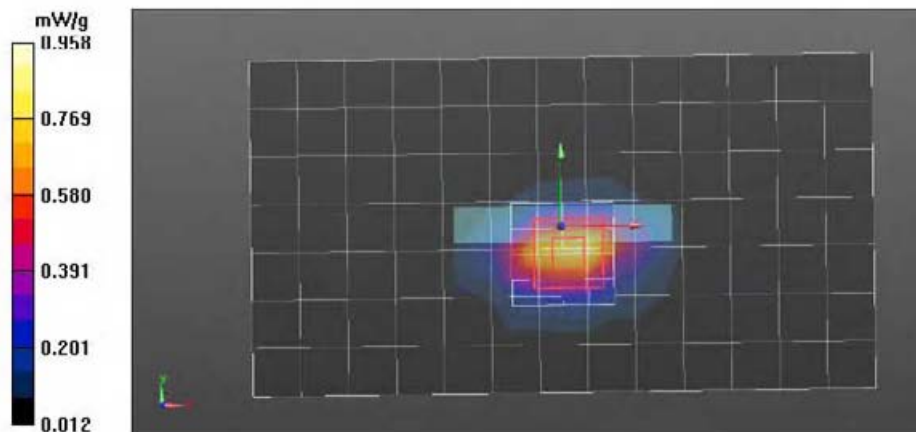
Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.526 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 1.558 mW/g

SAR(1 g) = 0.848 mW/g; SAR(10 g) = 0.422 mW/g

Maximum value of SAR (measured) = 0.958 mW/g



Test Laboratory: Motorola Mobility - EVDO 1900MHz (top Tx antenna) Mobile Hot Spot**DUT: Serial: LVQV2G0014, FCC ID: IIIDT56NG1**

Procedure Notes: Pwr Step: Test Mode Battery Model #: INTERNAL Test Config: Top Edge of Phone 10mm from Phantom Communication System. CDMA, Frequency: 1880 MHz, Duty Cycle: 1.1

Medium: Regular Glycol Body 1750/1880; Medium parameters used: $f = 1880$ 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 14.6.5 (6469)

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) = 0.159 mW/g

DASY5, Triple Flat Phone Template - Rev.5 (6-April-12)/Triple Flat Phone Template/5x5x7 Zoom Scan (<-3GHz) (5x5x7)/Cube 0:

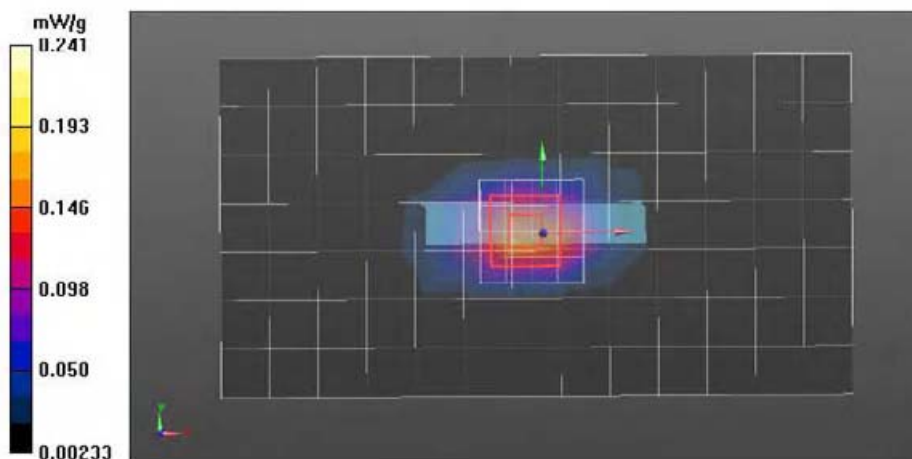
Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.110 V/m, Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.378 mW/g

SAR(1 g) = 0.209 mW/g; SAR(10 g) = 0.103 mW/g

Maximum value of SAR (measured) = 0.241 mW/g



Date/Time: 7/6/2012 2:35:59 AM

Test Laboratory: Motorola Mobility - Wi-Fi 2.4 GHz Mobile Hotspot

Serial: TA648000RP; FCC ID: IHDT56NG1

Procedure Notes: Pwr Step: N/A; Antenna Position: Internal; Battery Model #: Internal

Device Position: Mobile Hotspot (Body-adjacent) position, Left Edge of Phone 10mm from Phantom

Device Mode: 802.11b mode, 1 Mbps data rate

Communication System: _Wi-Fi 2450MHz; Frequency: 2437 MHz; Channel Number: 6; Duty Cycle: 1:1

Medium: 2450 Triton Body

Medium parameters used: $f = 2450$ MHz; $\sigma = 2.04$ mho/m; $\epsilon_r = 50.5$; $\rho = 1000$ kg/m³

DASY4 Configuration:

- Probe: EX3DV4 - SN3728; ConvF(6.84, 6.84, 6.84); Calibrated: 4/24/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1312; Calibrated: 5/29/2012
- Phantom: R#-3, Triple Flat Phantom 5.1C (Rev.4); Type: QD 000 P51 CA; Serial: n/a;
- ; SEMCAD X Version 14.6.5 (6469)

DASY5, Triple Flat Phone Template - Rev.5 (6-April-12)/Triple Flat Phone Template/Area Scan - Normal Body (15mm) (14x8x1):

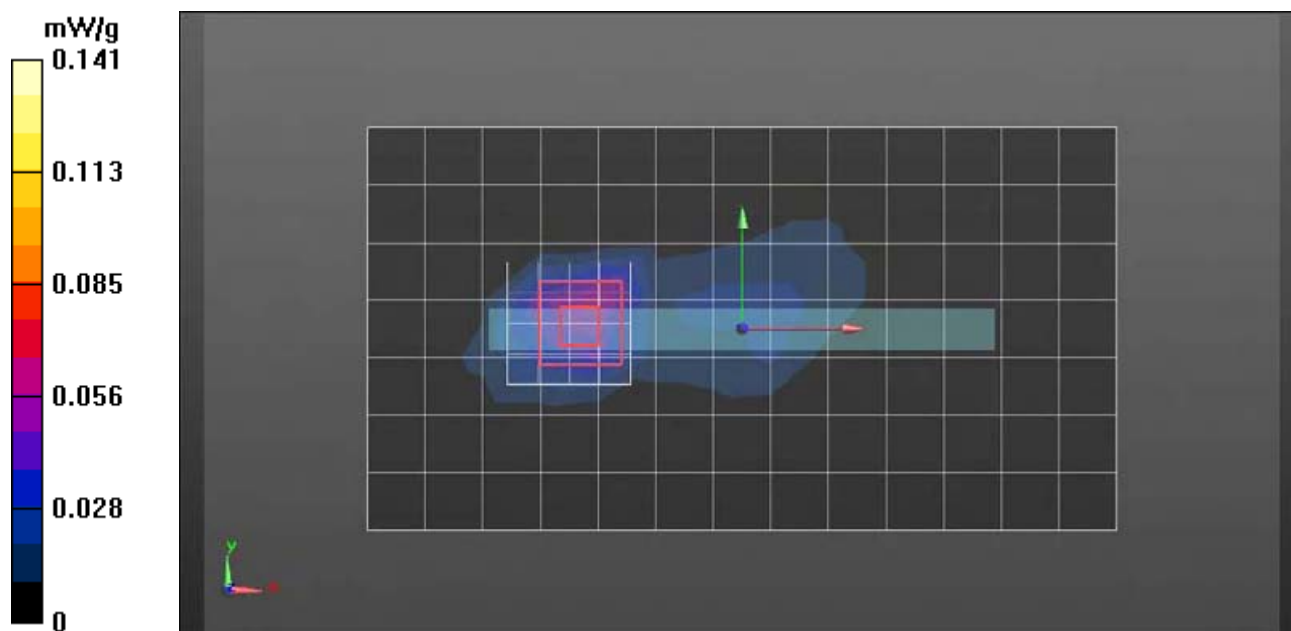
Measurement grid: dx=15mm, dy=15mm; Maximum value of SAR (measured) = 0.0635 mW/g

DASY5, Triple Flat Phone Template - Rev.5 (6-April-12)/Triple Flat Phone Template/5x5x7 Zoom Scan (<=3GHz) (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.230 V/m; Power Drift = 0.06 dB; Peak SAR (extrapolated) = 0.280 mW/g

SAR(1 g) = 0.117 mW/g; SAR(10 g) = 0.043 mW/g; Maximum value of SAR (measured) = 0.141 mW/g



Date/Time: 7/4/2012 8:48:29 PM

Test Laboratory: Motorola Mobility - Wi-Fi 5.8 GHz Mobile Hotspot**Serial: TA648000RP; FCC ID: IHDT56NG1**

Procedure Notes: Pwr Step: N/A; Antenna Position: Internal; Battery Model #: Internal

Device Position: Mobile Hotspot (Body-adjacent) position, Left Edge of Phone 10mm from Phantom

Device Mode: 802.11a mode, 6 Mbps data rate

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

Medium: 5.785 GHz BODY

Medium parameters used: $f = 5785$ MHz; $\sigma = 5.9$ mho/m; $\epsilon_r = 43.5$; $\rho = 1000$ 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: DAE4 Sn1312; Calibrated: 5/29/2012
- Phantom: R#-3, Triple Flat Phantom 5.1C (Rev.4); Type: QD 000 P51 CA; Serial: n/a;
- ; SEMCAD X Version 14.6.5 (6469)

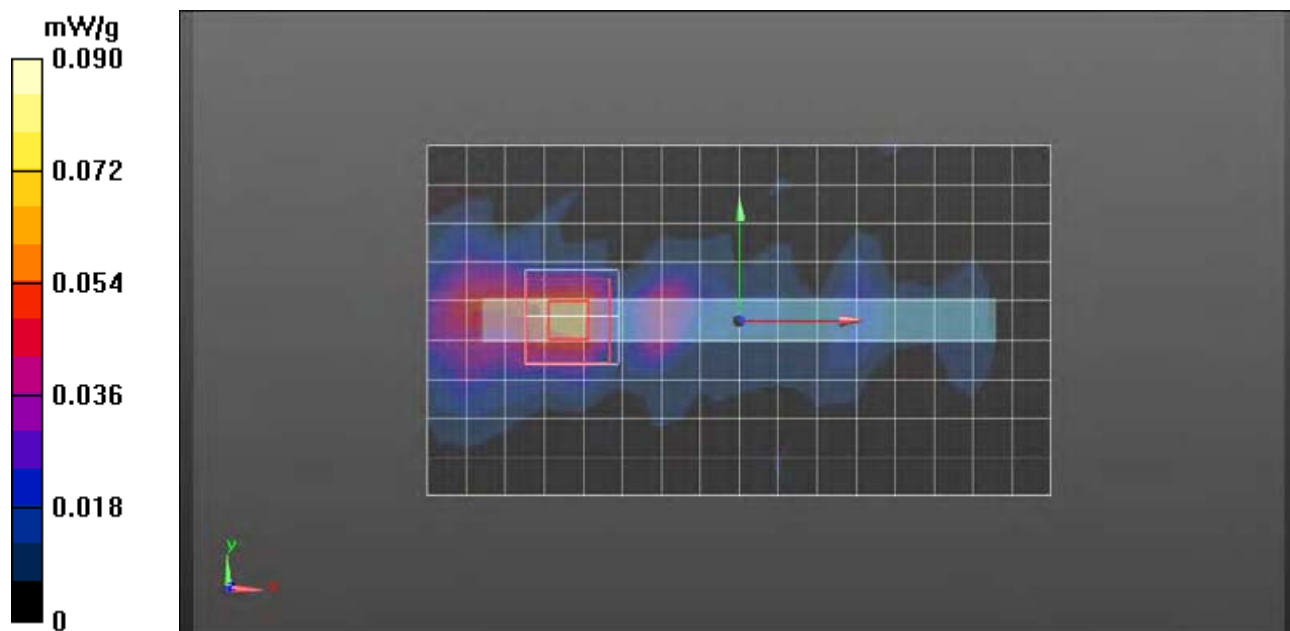
DASY5 - 5-6GHz, TRIPLE Flat Phone Template, Rev.2 (4-April-12)/TRIPLE Flat Phone Against Flat Section/Phone Area Scan - Normal Body (10mm) (17x10x1):

Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 0.0588 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=4mm, dy=4mm, dz=2mm

Reference Value = 4.377 V/m; Power Drift = -0.10 dB; Peak SAR (extrapolated) = 0.156 mW/g

SAR(1 g) = 0.042 mW/g; SAR(10 g) = 0.012 mW/g; Maximum value of SAR (measured) = 0.0895 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>	$e = f(d,k)$	<i>f</i>	<i>g</i>	$h = c \times f / e$	$i = c \times g / e$	<i>k</i>
Uncertainty Component	Description 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	