

## **Appendix 1**

### **SAR Distribution Plots for Test System Verification**

## **System Accuracy Verification Measurements for Head SAR Measurements**

Date/Time: 8/1/2013 8:55:46 AM

**Test Lab: Motorola Mobility - CW System Verification for SAR using Dipoles****DUT Serial: D835V2 - SN:422tr****DASY Configuration:**

- Probe: ES3DV3 - SN3180; ConvF(6.23,6.23,6.23); Calibrated: 2/11/2013;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn661; Calibrated: 5/21/2013
- Phantom: R#1 - Sugar SAM (extended range), Rev.2 (24-Feb-12);  
Type: SAM v4.0; Serial: TP-1156
- DASY52 52.8.7(1137); SEMCAD X Version 14.6.10 (7164)

Communication System: CW for SAR Dipoles; Frequency: 835.0 MHz; Duty Cycle: 1:1.000  
Medium Parameters used:  $f=835$  MHz;  $\sigma = 0.9142$ ;  $\epsilon_r = 40.18$  mho/m;  $\rho = 1.000$  kg/m<sup>3</sup>

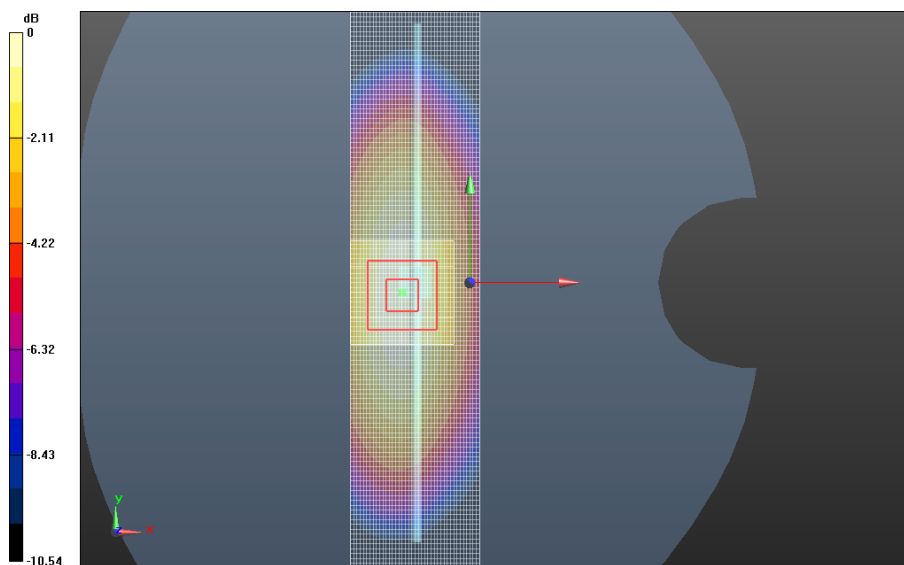
**<2 GHz, SAM Daily SPC Check/fastSAR, Dipole Area Scan (41x141x1):****Interpolated grid: dx=1.000 mm, dy=1.500 mm**

Fast SAR: SAR(1g) = 1.83 W/kg; SAR(10g) = 1.22 W/kg

**<2 GHz, SAM Daily SPC Check/CUBE SAR, 5x5x7 (21x21x36)/Cube 0:****Interpolated grid: dx=1.600 mm, dy=1.600 mm, dz=1.000 mm**

Reference Value = 46.459 V/m, Power Drift = 0.032 dB

Averaged SAR: SAR(1g) = 1.83 W/kg; SAR(10g) = 1.20 W/kg

**Daily SPC Check**

## Test Lab: Motorola Mobility - CW System Verification for SAR using Dipoles

DUT Serial: D1800V2 - SN:259tr ; Date/Time: 8/2/2013 7:12:05 AM

### DASY Configuration:

- Probe: ES3DV3 - SN3180; ConvF(5.01,5.01,5.01); Calibrated: 2/11/2013;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn661; Calibrated: 5/21/2013
- Phantom: R#-1, Triple Flat Phantom 5.1C (Rev.4);  
Type: QD 000 P51 CA; Serial: n/a
- DASY52 52.8.7(1137); SEMCAD X Version 14.6.10 (7164)

Communication System: CW for SAR Dipoles; Frequency: 1800 MHz; Duty Cycle: 1:1.000  
Medium Parameters used:  $f=1800$  MHz;  $\sigma = 1.333$ ;  $\epsilon_r = 38.23$  mho/m;  $\rho = 1.000$  kg/m<sup>3</sup>

### < 2GHz, Daily SPC Check/fastSAR, Dipole Area Scan (41x141x1):

Interpolated grid:  $dx=1.000$  mm,  $dy=1.500$  mm

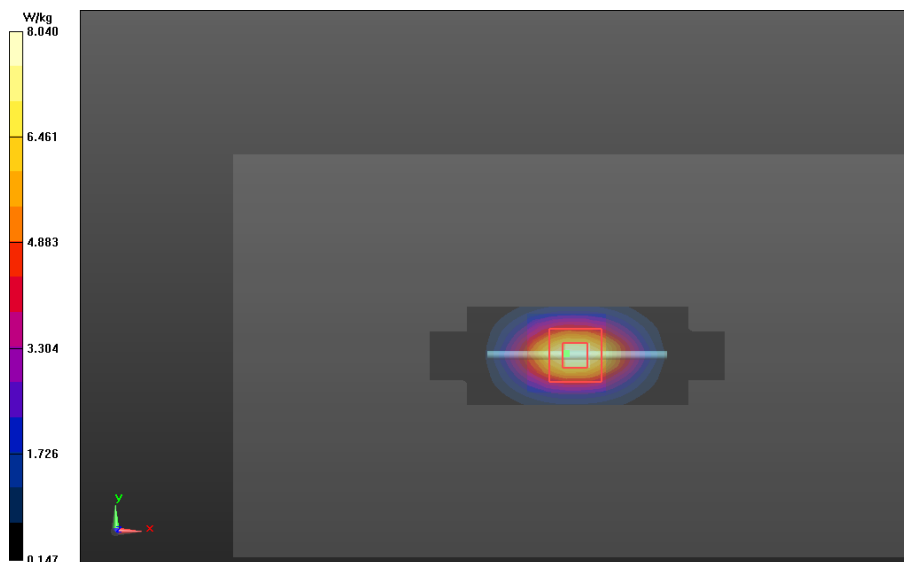
Fast SAR: SAR(1g) = 7.51 W/kg; SAR(10g) = 4.06 W/kg

### < 2GHz, Daily SPC Check/CUBE SAR, 5x5x7 (21x21x36)/Cube 0:

Interpolated grid:  $dx=1.600$  mm,  $dy=1.600$  mm,  $dz=1.000$  mm

Reference Value = 79.455 V/m, Power Drift = 0.022 dB

Averaged SAR: SAR(1g) = 7.46 W/kg; SAR(10g) = 3.93 W/kg



Daily SPC Check

## Test Lab: Motorola Mobility - CW System Verification for SAR using Dipoles

DUT Serial: D835V2 - SN:436tr ; Date/Time: 7/25/2013 7:51:19 AM

### DASY Configuration:

- Probe: ES3DV3 - SN3124; ConvF(6.01,6.01,6.01); Calibrated: 8/20/2012;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn376; Calibrated: 9/3/2012
- Phantom: R#2 Sugar SAM (extended range), Rev.2 (24-Feb-12);  
Type: SAM v4.0; Serial: TP-1235
- DASY52 52.8.7(1137); SEMCAD X Version 14.6.10 (7164)

Communication System: CW for SAR Dipoles; Frequency: 835.0 MHz; Duty Cycle: 1:1.000  
Medium Parameters used:  $f=835$  MHz;  $\sigma = 0.9009$ ;  $\epsilon_r = 39.18$  mho/m;  $\rho = 1.000$  kg/m<sup>3</sup>

### <2 GHz, SAM Daily SPC Check/fastSAR, Dipole Area Scan (41x141x1):

Interpolated grid:  $dx=1.000$  mm,  $dy=1.500$  mm

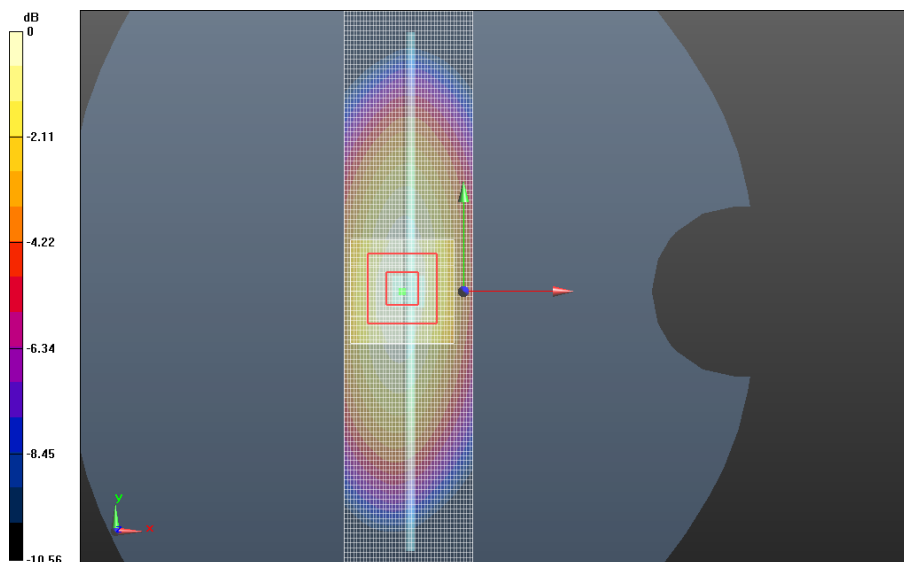
Fast SAR: SAR(1g) = 1.99 W/kg; SAR(10g) = 1.33 W/kg

### <2 GHz, SAM Daily SPC Check/CUBE SAR, 5x5x7 (21x21x36)/Cube 0:

Interpolated grid:  $dx=1.600$  mm,  $dy=1.600$  mm,  $dz=1.000$  mm

Reference Value = 49.525 V/m, Power Drift = -0.014 dB

Averaged SAR: SAR(1g) = 1.98 W/kg; SAR(10g) = 1.30 W/kg



Daily SPC Check

**Test Lab: Motorola Mobility - CW System Verification for SAR using Dipoles****DUT Serial: D1800V2 - SN:2d190 ; Date/Time: 7/26/2013 7:11:28 AM****DASY Configuration:**

- Probe: ES3DV3 - SN3124; ConvF(5.07,5.07,5.07); Calibrated: 8/20/2012;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn376; Calibrated: 9/3/2012
- Phantom: R#2 Triple Flat Phantom 5.1C (Rev.4);  
Type: QD 000 P51 CA; Serial: n/a
- DASY52 52.8.7(1137); SEMCAD X Version 14.6.10 (7164)

Communication System: CW for SAR Dipoles; Frequency: 1800 MHz; Duty Cycle: 1:1.000  
Medium Parameters used:  $f=1800$  MHz;  $\sigma = 1.329$ ;  $\epsilon_r = 38.88$  mho/m;  $\rho = 1.000$  kg/m<sup>3</sup>

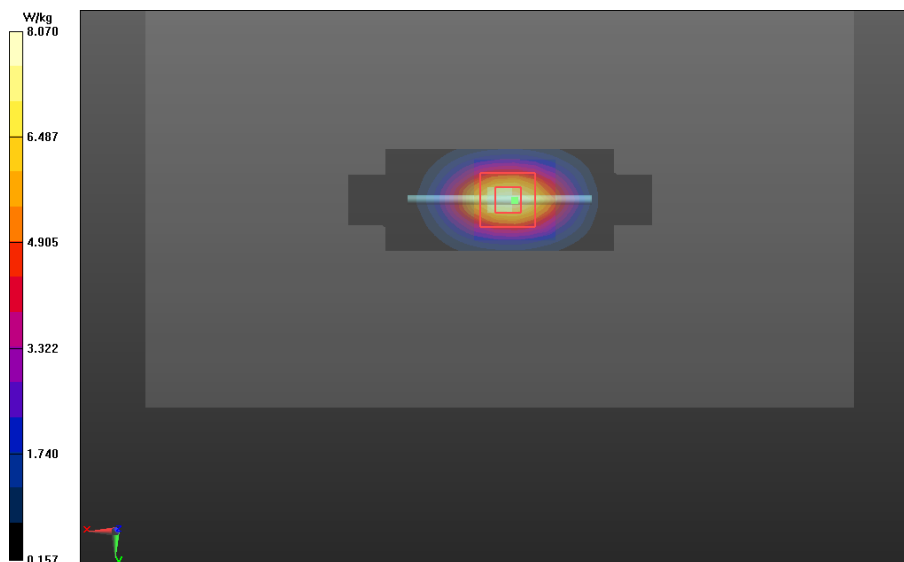
**< 2GHz, Daily SPC Check/fastSAR, Dipole Area Scan (41x141x1):****Interpolated grid: dx=1.000 mm, dy=1.500 mm**

Fast SAR: SAR(1g) = 7.60 W/kg; SAR(10g) = 4.05 W/kg

**< 2GHz, Daily SPC Check/CUBE SAR, 5x5x7 (21x21x36)/Cube 0:****Interpolated grid: dx=1.600 mm, dy=1.600 mm, dz=1.000 mm**

Reference Value = 79.152 V/m, Power Drift = -0.043 dB

Averaged SAR: SAR(1g) = 7.41 W/kg; SAR(10g) = 3.91 W/kg

**Daily SPC Check**

Date/Time: 1/31/2014 10:57:32 AM

## Test Lab: Motorola Mobility – CW System Verification for SAR using Dipoles

DUT Serial: D2450V2 - SN:740;

### DASY Configuration:

- Probe: EX3DV4 - SN3728; ConvF(6.91,6.91,6.91); Calibrated: 5/30/2013;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn784; Calibrated: 3/6/2013
- Phantom: R#3, 2450 WiFi SAM (extended range), Rev.2 (24-Feb-12); Type: SAM v4.0; Serial: TP-1153
- DASY52 52.8.7(1137); SEMCAD X Version 14.6.8 (7028)

Communication System: CW - Dipole; Frequency: 2450 MHz; Duty Cycle: 1:1.000

Medium Parameters used:  $f=2450$  MHz;  $\sigma = 1.787$ ;  $\epsilon_r = 35.76$  mho/m;  $\rho = 1.000$  kg/m<sup>3</sup>

### 2-3 GHz, SAM Daily SPC Check/fastSAR, Dipole Area Scan (41x221x1):

Interpolated grid:  $dx=1.000$  mm,  $dy=1.000$  mm

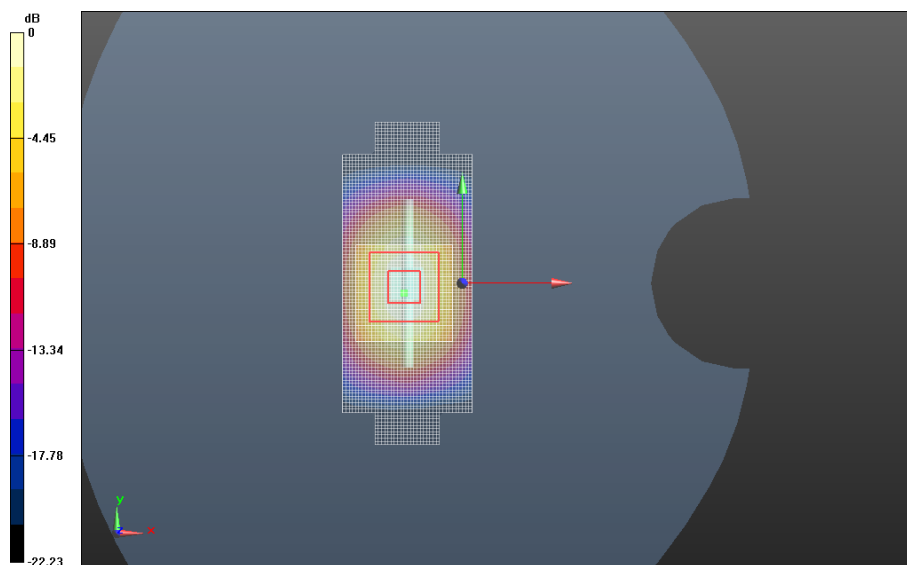
Fast SAR: SAR(1g) = 5.39 W/kg; SAR(10g) = 2.56 W/kg

### 2-3 GHz, SAM Daily SPC Check/CUBE SAR, 7x7x7 (31x31x36)/Cube 0:

Interpolated grid:  $dx=1.000$  mm,  $dy=1.000$  mm,  $dz=1.000$  mm

Reference Value = 59.560 V/m, Power Drift = -0.079 dB

Averaged SAR: SAR(1g) = 5.37 W/kg; SAR(10g) = 2.49 W/kg



2-3 GHz, SAM Daily SPC Check

## **System Accuracy Verification Measurements for Body SAR Measurements**

Date/Time: 8/6/2013 9:41:38 PM

**Test Lab: Motorola Mobility - CW System Verification for SAR using Dipoles****DUT Serial: D835V2 - SN:422tr****DASY Configuration:**

- Probe: ES3DV3 - SN3180; ConvF(6.05,6.05,6.05); Calibrated: 2/11/2013;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn661; Calibrated: 5/21/2013
- Phantom: R#-1, Triple Flat Phantom 5.1C (Rev.4);  
Type: QD 000 P51 CA; Serial: n/a
- DASY52 52.8.7(1137); SEMCAD X Version 14.6.10 (7164)

Communication System: CW for SAR Dipoles; Frequency: 835.0 MHz; Duty Cycle: 1:1.000  
Medium Parameters used:  $f=835$  MHz;  $\sigma = 0.9978$ ;  $\epsilon_r = 54.04$  mho/m;  $\rho = 1.000$  kg/m<sup>3</sup>

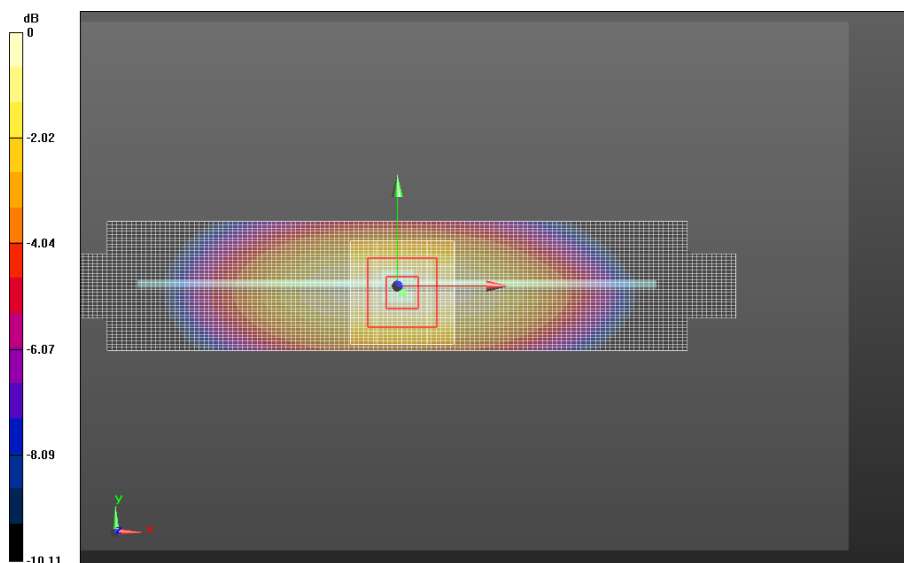
**< 2GHz, Daily SPC Check/fastSAR, Dipole Area Scan (41x141x1):****Interpolated grid: dx=1.000 mm, dy=1.500 mm**

Fast SAR: SAR(1g) = 1.91 W/kg; SAR(10g) = 1.27 W/kg

**< 2GHz, Daily SPC Check/CUBE SAR, 5x5x7 (21x21x36)/Cube 0:****Interpolated grid: dx=1.600 mm, dy=1.600 mm, dz=1.000 mm**

Reference Value = 46.662 V/m, Power Drift = 0.043 dB

Averaged SAR: SAR(1g) = 1.92 W/kg; SAR(10g) = 1.28 W/kg

**Daily SPC Check**

## Test Lab: Motorola Mobility - CW System Verification for SAR using Dipoles

DUT Serial: D1800V2 - SN:259tr ; Date/Time: 8/5/2013 7:50:24 PM

### DASY Configuration:

- Probe: ES3DV3 - SN3180; ConvF(4.78,4.78,4.78); Calibrated: 2/11/2013;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn661; Calibrated: 5/21/2013
- Phantom: R#-1, Triple Flat Phantom 5.1C (Rev.4);  
Type: QD 000 P51 CA; Serial: n/a
- DASY52 52.8.7(1137); SEMCAD X Version 14.6.10 (7164)

Communication System: CW for SAR Dipoles; Frequency: 1800 MHz; Duty Cycle: 1:1.000  
Medium Parameters used:  $f=1800$  MHz;  $\sigma = 1.456$ ;  $\epsilon_r = 52.36$  mho/m;  $\rho = 1.000$  kg/m<sup>3</sup>

### < 2GHz, Daily SPC Check/fastSAR, Dipole Area Scan (41x141x1):

Interpolated grid:  $dx=1.000$  mm,  $dy=1.500$  mm

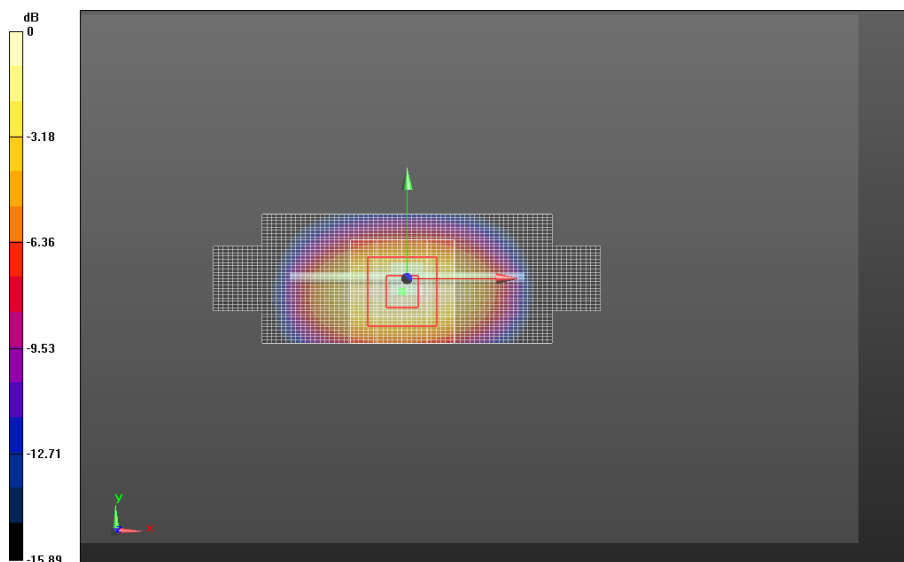
Fast SAR: SAR(1g) = 7.44 W/kg; SAR(10g) = 3.95 W/kg

### < 2GHz, Daily SPC Check/CUBE SAR, 5x5x7 (21x21x36)/Cube 0:

Interpolated grid:  $dx=1.600$  mm,  $dy=1.600$  mm,  $dz=1.000$  mm

Reference Value = 73.747 V/m, Power Drift = -0.028 dB

Averaged SAR: SAR(1g) = 7.31 W/kg; SAR(10g) = 3.90 W/kg



Daily SPC Check

## Test Lab: Motorola Mobility - CW System Verification for SAR using Dipoles

DUT Serial: D1800V2 - SN:259tr ; Date/Time: 8/7/2013 12:56:22 AM

### DASY Configuration:

- Probe: ES3DV3 - SN3180; ConvF(4.78,4.78,4.78); Calibrated: 2/11/2013;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn661; Calibrated: 5/21/2013
- Phantom: R#-1, Triple Flat Phantom 5.1C (Rev.4);  
Type: QD 000 P51 CA; Serial: n/a
- DASY52 52.8.7(1137); SEMCAD X Version 14.6.10 (7164)

Communication System: CW for SAR Dipoles; Frequency: 1800 MHz; Duty Cycle: 1:1.000  
Medium Parameters used:  $f=1800$  MHz;  $\sigma = 1.451$ ;  $\epsilon_r = 52.74$  mho/m;  $\rho = 1.000$  kg/m<sup>3</sup>

### < 2GHz, Daily SPC Check/fastSAR, Dipole Area Scan (41x141x1):

Interpolated grid:  $dx=1.000$  mm,  $dy=1.500$  mm

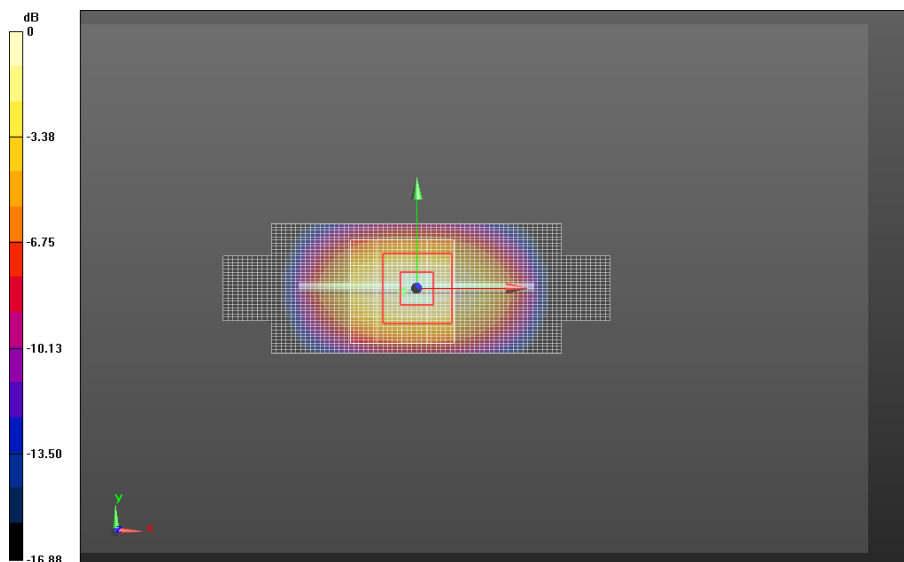
Fast SAR: SAR(1g) = 7.44 W/kg; SAR(10g) = 3.95 W/kg

### < 2GHz, Daily SPC Check/CUBE SAR, 5x5x7 (21x21x36)/Cube 0:

Interpolated grid:  $dx=1.600$  mm,  $dy=1.600$  mm,  $dz=1.000$  mm

Reference Value = 76.227 V/m, Power Drift = 0.011 dB

Averaged SAR: SAR(1g) = 7.37 W/kg; SAR(10g) = 3.93 W/kg



Daily SPC Check

**Test Lab: Motorola Mobility - CW System Verification for SAR using Dipoles****DUT Serial: D835V2 - SN:436tr ; Date/Time: 7/25/2013 2:27:51 PM****DASY Configuration:**

- Probe: ES3DV3 - SN3124; ConvF(6.02,6.02,6.02); Calibrated: 8/20/2012;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn376; Calibrated: 9/3/2012
- Phantom: R#2 Triple Flat Phantom 5.1C (Rev.4);  
Type: QD 000 P51 CA; Serial: n/a
- DASY52 52.8.7(1137); SEMCAD X Version 14.6.10 (7164)

Communication System: CW for SAR Dipoles; Frequency: 835.0 MHz; Duty Cycle: 1:1.000  
Medium Parameters used:  $f=835$  MHz;  $\sigma = 0.9972$ ;  $\epsilon_r = 53.56$  mho/m;  $\rho = 1.000$  kg/m<sup>3</sup>

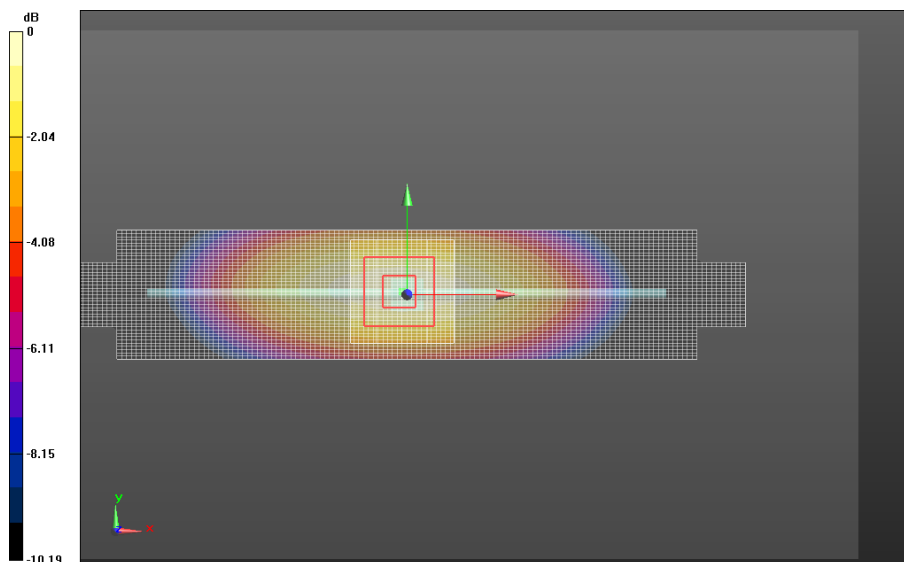
**< 2GHz, Daily SPC Check/fastSAR, Dipole Area Scan (41x141x1):****Interpolated grid: dx=1.000 mm, dy=1.500 mm**

Fast SAR: SAR(1g) = 1.96 W/kg; SAR(10g) = 1.30 W/kg

**< 2GHz, Daily SPC Check/CUBE SAR, 5x5x7 (21x21x36)/Cube 0:****Interpolated grid: dx=1.600 mm, dy=1.600 mm, dz=1.000 mm**

Reference Value = 47.469 V/m, Power Drift = -0.012 dB

Averaged SAR: SAR(1g) = 1.96 W/kg; SAR(10g) = 1.30 W/kg

**Daily SPC Check**

**Test Lab: Motorola Mobility - CW System Verification for SAR using Dipoles****DUT Serial: D1800V2 - SN:2d190 ; Date/Time: 7/26/2013 9:31:02 AM****DASY Configuration:**

- Probe: ES3DV3 - SN3124; ConvF(4.76,4.76,4.76); Calibrated: 8/20/2012;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn376; Calibrated: 9/3/2012
- Phantom: R#2 Triple Flat Phantom 5.1C (Rev.4);  
Type: QD 000 P51 CA; Serial: n/a
- DASY52 52.8.7(1137); SEMCAD X Version 14.6.10 (7164)

Communication System: CW for SAR Dipoles; Frequency: 1800 MHz; Duty Cycle: 1:1.000  
Medium Parameters used:  $f=1800$  MHz;  $\sigma = 1.541$ ;  $\epsilon_r = 50.48$  mho/m;  $\rho = 1.000$  kg/m<sup>3</sup>

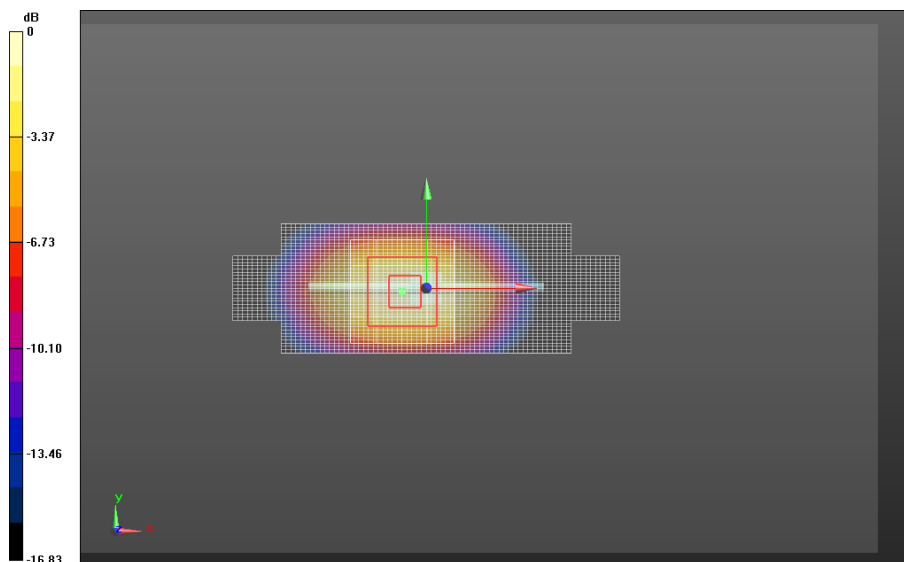
**< 2GHz, Daily SPC Check/fastSAR, Dipole Area Scan (41x141x1):****Interpolated grid: dx=1.000 mm, dy=1.500 mm**

Fast SAR: SAR(1g) = 7.95 W/kg; SAR(10g) = 4.20 W/kg

**< 2GHz, Daily SPC Check/CUBE SAR, 5x5x7 (21x21x36)/Cube 0:****Interpolated grid: dx=1.600 mm, dy=1.600 mm, dz=1.000 mm**

Reference Value = 71.988 V/m, Power Drift = -0.014 dB

Averaged SAR: SAR(1g) = 7.73 W/kg; SAR(10g) = 4.10 W/kg

**Daily SPC Check**

Date/Time: 2/13/2014 11:52:04 AM

## Test Lab: Motorola Mobility – CW System Verification for SAR using Dipoles

DUT Serial: D835V2 - SN:422tr;

### DASY Configuration:

- Probe: EX3DV4 - SN3728; ConvF(7.13,7.13,7.13); Calibrated: 5/30/2013;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn784; Calibrated: 3/6/2013
- Phantom: R#-3, Triple Flat Phantom 5.1C (Rev.4); Type: QD 000 P51 CA; Serial: n/a
- DASY52 52.8.7(1137); SEMCAD X Version 14.6.8 (7028)

Communication System: CW - Dipole; Frequency: 2450 MHz; Duty Cycle: 1:1.000

Medium Parameters used:  $f=2450$  MHz;  $\sigma = 1.981$ ;  $\epsilon_r = 47.79$  mho/m;  $\rho = 1.000$  kg/m<sup>3</sup>

### < 2GHz, Daily SPC Check/fastSAR, Dipole Area Scan (41x141x1):

Interpolated grid:  $dx=1.000$  mm,  $dy=1.500$  mm

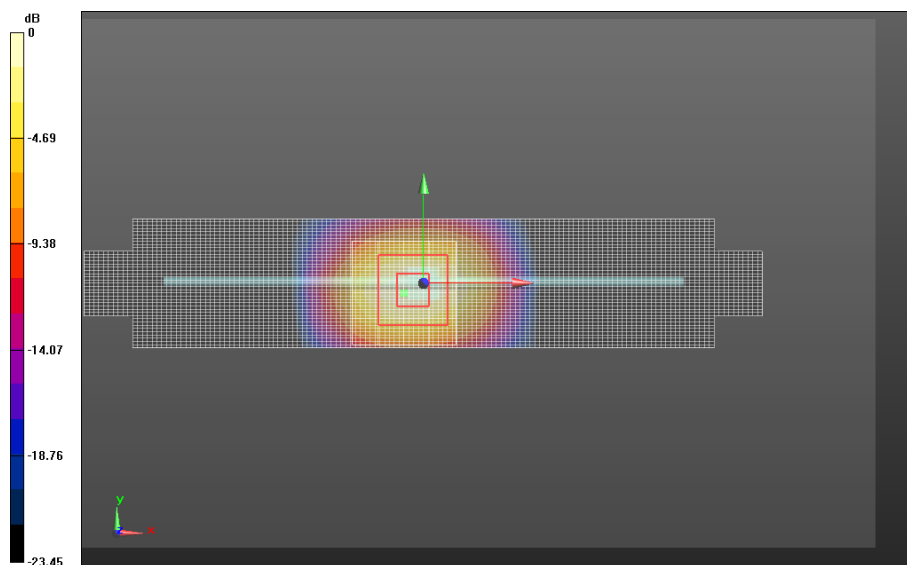
Fast SAR: SAR(1g) = 5.22 W/kg; SAR(10g) = 2.40 W/kg

### < 2GHz, Daily SPC Check/CUBE SAR, 5x5x7 (21x21x36)/Cube 0:

Interpolated grid:  $dx=1.600$  mm,  $dy=1.600$  mm,  $dz=1.000$  mm

Reference Value = 53.245 V/m, Power Drift = -0.011 dB

Averaged SAR: SAR(1g) = 5.02 W/kg; SAR(10g) = 2.34 W/kg



< 2GHz, Daily SPC Check

## **Appendix 2**

### **SAR Distribution Plots for Head-Adjacent Test Results**

Date/Time: 8/1/2013 7:20:21 PM

## Test Lab: Motorola Mobility

**DUT Serial: LDXU220015;**

Antenna: Internal;

Test Configuration: Cheek

**DASY Configuration:**

- Probe: ES3DV3 - SN3180; ConvF(6.23,6.23,6.23); Calibrated: 2/11/2013;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn661; Calibrated: 5/21/2013
- Phantom: R#1 - Sugar SAM (extended range), Rev.2 (24-Feb-12); Type: SAM v4.0; Serial: TP-1156
- DASY52 52.8.7(1137); SEMCAD X Version 14.6.10 (7164)

Communication System: \_GSM (0); Communication System Band: GSM 850; Frequency: 836.6 MHz;  
Duty Cycle: 1:8.300

Medium Parameters used:  $f=836.6$  MHz;  $\sigma = 0.9158$ ;  $\epsilon_r = 40.16$  mho/m;  $\rho = 1.000$  kg/m<sup>3</sup>

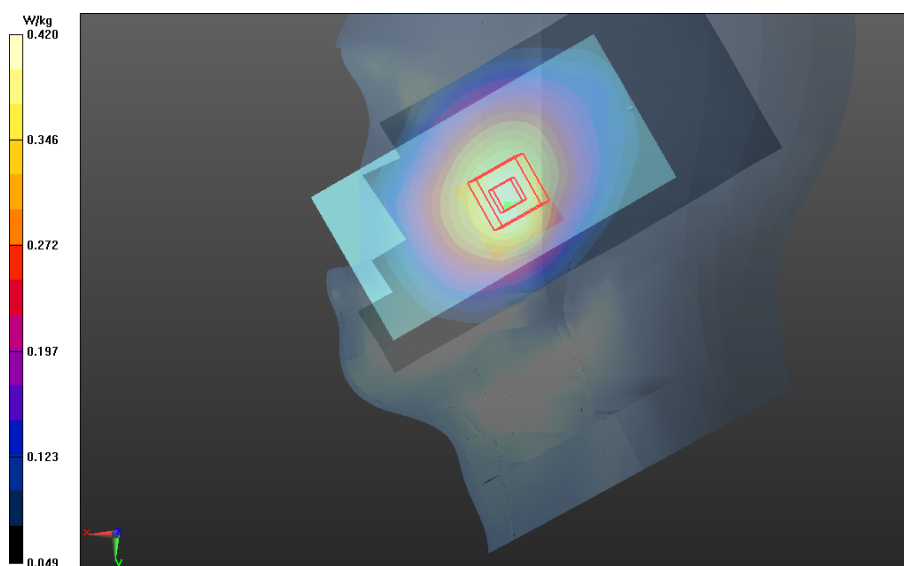
**0.6-2GHz Right Head Template/15mm, Area Scan (61x161x1):****Interpolated grid: dx=1.500 mm, dy=1.500 mm**

Fast SAR: SAR(1g) = 0.403 W/kg; SAR(10g) = 0.275 W/kg

**0.6-2GHz Right Head Template/5x5x7 Zoom Scan (0.6-2GHz) (21x21x36)/Cube 0:****Interpolated grid: dx=1.600 mm, dy=1.600 mm, dz=1.000 mm**

Reference Value = 21.375 V/m, Power Drift = -0.00626 dB

Averaged SAR: SAR(1g) = 0.404 W/kg; SAR(10g) = 0.305 W/kg

**0.6-2GHz Right Head Template**

Date/Time: 8/3/2013 2:03:25 AM

## Test Lab: Motorola Mobility

**DUT Serial: LDXU220015;**

Antenna: Internal;

Test Configuration: Cheek

**DASY Configuration:**

- Probe: ES3DV3 - SN3180; ConvF(5.01,5.01,5.01); Calibrated: 2/11/2013;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn661; Calibrated: 5/21/2013
- Phantom: R#1 - Glycol SAM (extended range), Rev.2 (24-Feb-12); Type: SAM v4.0; Serial: TP-1319
- DASY52 52.8.7(1137); SEMCAD X Version 14.6.10 (7164)

Communication System: \_GPRS Class 10 (0); Communication System Band: 1900 MHz; Frequency: 1880 MHz; Duty Cycle: 1:4.150

Medium Parameters used:  $f=1880$  MHz;  $\sigma = 1.417$ ;  $\epsilon_r = 37.90$  mho/m;  $\rho = 1.000$  kg/m<sup>3</sup>

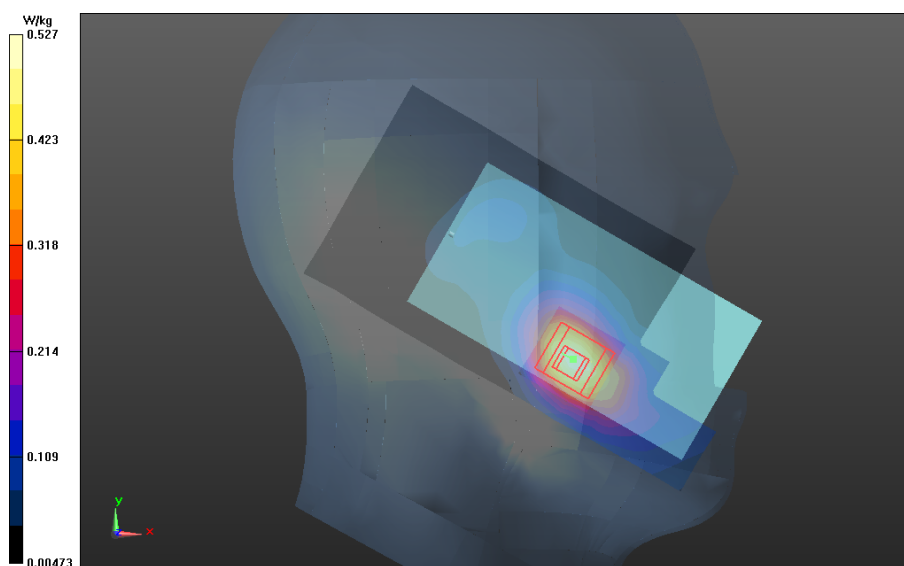
**0.6-2GHz, Left Head Template/15mm, Area Scan (61x161x1):****Interpolated grid: dx=1.500 mm, dy=1.500 mm**

Fast SAR: SAR(1g) = 0.474 W/kg; SAR(10g) = 0.271 W/kg

**0.6-2GHz, Left Head Template/5x5x7 Zoom Scan (0.6-2GHz) (21x21x36)/Cube 0:****Interpolated grid: dx=1.600 mm, dy=1.600 mm, dz=1.000 mm**

Reference Value = 15.974 V/m, Power Drift = -0.00538 dB

Averaged SAR: SAR(1g) = 0.488 W/kg; SAR(10g) = 0.288 W/kg

**0.6-2GHz, Left Head Template**

Date/Time: 7/25/2013 8:22:06 PM

## Test Lab: Motorola Mobility

**DUT Serial: LDXU220297;**

Antenna: Internal;

Test Configuration: Cheek

**DASY Configuration:**

- Probe: ES3DV3 - SN3124; ConvF(6.01,6.01,6.01); Calibrated: 8/20/2012;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn376; Calibrated: 9/3/2012
- Phantom: R#2 Sugar SAM (extended range), Rev.2 (24-Feb-12); Type: SAM v4.0; Serial: TP-1235
- DASY52 52.8.7(1137); SEMCAD X Version 14.6.10 (7164)

Communication System: \_WCDMA (0); Communication System Band: WCDMA-850, Band 5;  
Frequency: 836.0 MHz; Duty Cycle: 1:1.000

Medium Parameters used:  $f=836$  MHz;  $\sigma = 0.9019$ ;  $\epsilon_r = 39.17$  mho/m;  $\rho = 1.000$  kg/m<sup>3</sup>

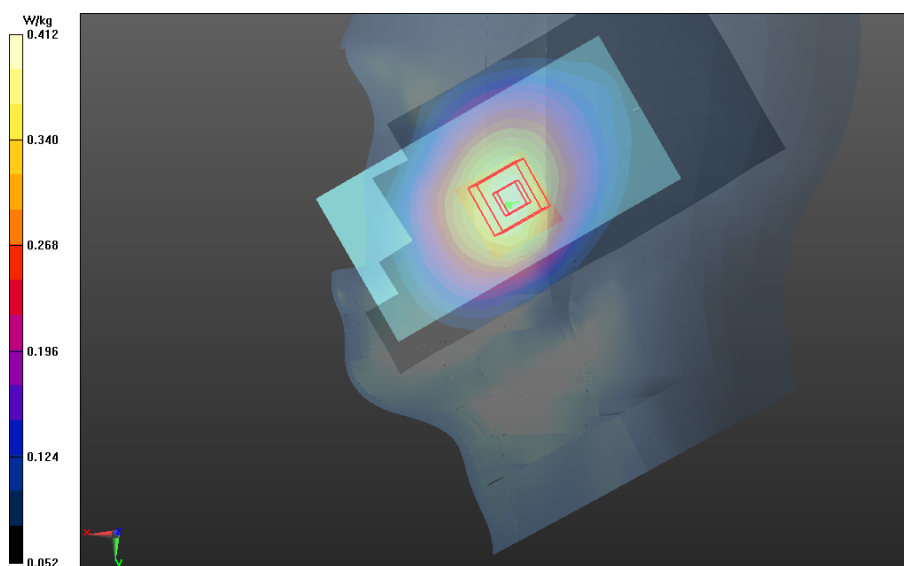
**0.6-2GHz Right Head Template/15mm, Area Scan (61x161x1):****Interpolated grid: dx=1.500 mm, dy=1.500 mm**

Fast SAR: SAR(1g) = 0.394 W/kg; SAR(10g) = 0.269 W/kg

**0.6-2GHz Right Head Template/5x5x7 Zoom Scan (0.6-2GHz) (21x21x36)/Cube 0:****Interpolated grid: dx=1.600 mm, dy=1.600 mm, dz=1.000 mm**

Reference Value = 21.182 V/m, Power Drift = -0.107 dB

Averaged SAR: SAR(1g) = 0.392 W/kg; SAR(10g) = 0.294 W/kg

**0.6-2GHz Right Head Template**

Date/Time: 7/27/2013 1:47:13 AM

## Test Lab: Motorola Mobility

**DUT Serial: LDXU220297;**

Antenna: Internal;

Test Configuration: Cheek

**DASY Configuration:**

- Probe: ES3DV3 - SN3124; ConvF(5.07,5.07,5.07); Calibrated: 8/20/2012;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn376; Calibrated: 9/3/2012
- Phantom: R#2 Glycol SAM (extended range), Rev.2 (24-Feb-12); Type: SAM v4.0; Serial: TP-1136
- DASY52 52.8.7(1137); SEMCAD X Version 14.6.10 (7164)

Communication System: \_WCDMA (0); Communication System Band: WCDMA-1900, Band 2;  
Frequency: 1908 MHz; Duty Cycle: 1:1.000

Medium Parameters used:  $f=1907.6$  MHz;  $\sigma = 1.447$ ;  $\epsilon_r = 38.42$  mho/m;  $\rho = 1.000$  kg/m<sup>3</sup>

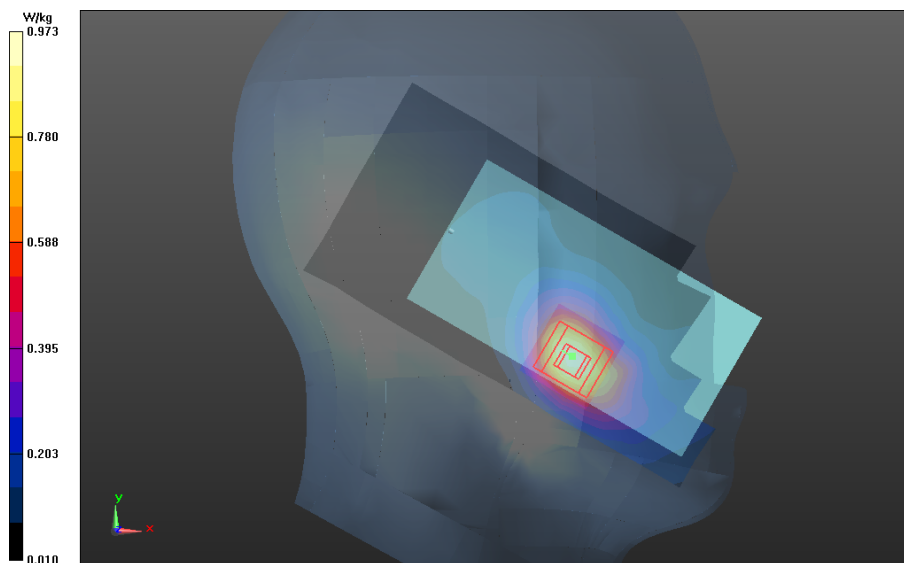
**0.6-2GHz, Left Head Template/15mm, Area Scan (61x161x1):****Interpolated grid: dx=1.500 mm, dy=1.500 mm**

Fast SAR: SAR(1g) = 0.871 W/kg; SAR(10g) = 0.496 W/kg

**0.6-2GHz, Left Head Template/5x5x7 Zoom Scan (0.6-2GHz) (21x21x36)/Cube 0:****Interpolated grid: dx=1.600 mm, dy=1.600 mm, dz=1.000 mm**

Reference Value = 22.015 V/m, Power Drift = 0.00346 dB

Averaged SAR: SAR(1g) = 0.898 W/kg; SAR(10g) = 0.525 W/kg

**0.6-2GHz, Left Head Template**

Date/Time: 1/31/2014 1:26:51 PM

## Test Lab: Motorola Mobility

**DUT Serial: TA8830NJK2;**

Procedure Notes: Antenna: Internal;

Test Position: Cheek

**DASY Configuration:**

- Probe: EX3DV4 - SN3728; ConvF(6.91,6.91,6.91); Calibrated: 5/30/2013;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn784; Calibrated: 3/6/2013
- Phantom: R#3, 2450 WiFi SAM (extended range), Rev.2 (24-Feb-12); Type: SAM v4.0; Serial: TP-1153
- DASY52 52.8.7(1137); SEMCAD X Version 14.6.8 (7028)

Communication System: \_Wi-Fi 2450 MHz; Band: 2450MHz WIFI; Frequency: 2412 MHz; Duty Cycle: 1:1.000  
Medium Parameters used:  $f=2412$  MHz;  $\sigma = 1.753$ ;  $\epsilon_r = 35.89$  mho/m;  $\rho = 1.000$  kg/m<sup>3</sup>

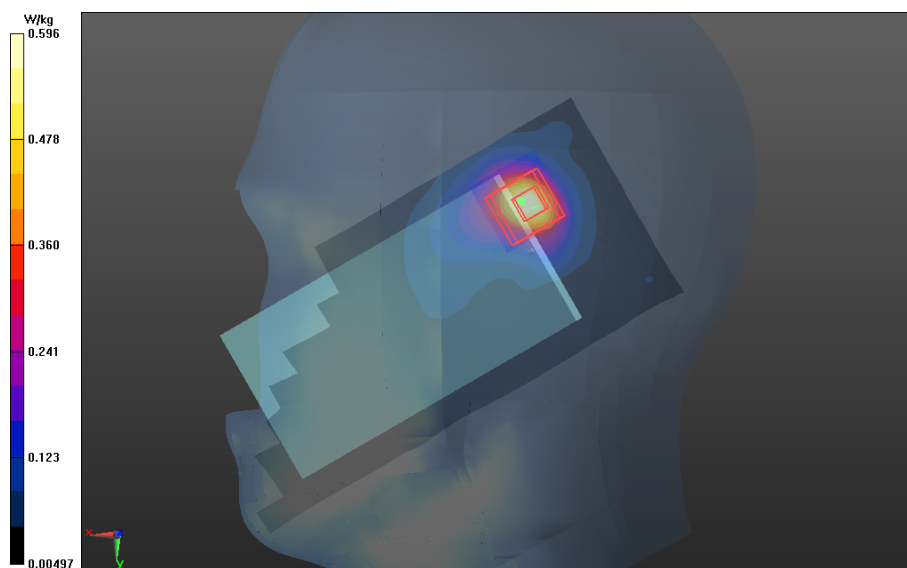
**2-3GHz Right Head Template/10mm, Area Scan (91x241x1):****Interpolated grid: dx=1.000 mm, dy=1.000 mm**

Fast SAR: SAR(1g) = 0.529 W/kg; SAR(10g) = 0.253 W/kg

**2-3GHz Right Head Template/7x7x7 Zoom Scan (2-3GHz) (31x31x36)/Cube 0:****Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm**

Reference Value = 17.371 V/m, Power Drift = -0.241 dB

Averaged SAR: SAR(1g) = 0.543 W/kg; SAR(10g) = 0.247 W/kg

**2-3GHz Right Head Template**

## **Appendix 3**

### **SAR Distribution Plots for Body-Worn Accessory Test Results**

Date/Time: 8/7/2013 5:24:35 PM

## Test Lab: Motorola Mobility

**DUT Serial: LDXU220015;**

Antenna: Internal;

Test Configuration: Body Worn, Front of Phone from Phantom

**DASY Configuration:**

- Probe: ES3DV3 - SN3180; ConvF(6.05,6.05,6.05); Calibrated: 2/11/2013;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn661; Calibrated: 5/21/2013
- Phantom: R#-1, Triple Flat Phantom 5.1C (Rev.4); Type: QD 000 P51 CA; Serial: n/a
- DASY52 52.8.7(1137); SEMCAD X Version 14.6.10 (7164)

Communication System: \_GPRS Class 10 (0); Communication System Band: 850 MHz; Frequency: 836.6 MHz; Duty Cycle: 1:4.150

Medium Parameters used:  $f=836.6$  MHz;  $\sigma = 0.9994$ ;  $\epsilon_r = 54.02$  mho/m;  $\rho = 1.000$  kg/m<sup>3</sup>

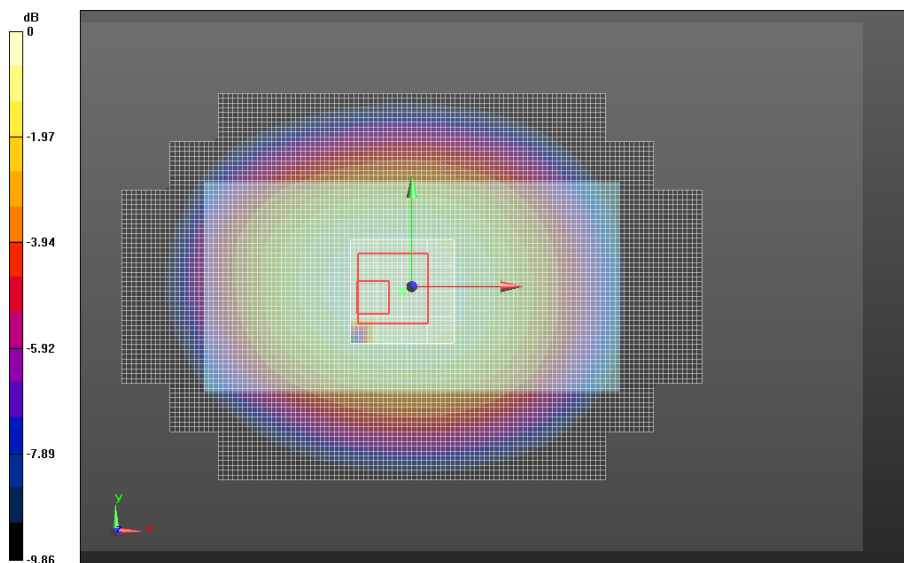
**0.6-2GHz Triple Flat Phone Template/Area Scan (15mm), not for EDGES (181x101x1):****Interpolated grid: dx=1.500 mm, dy=1.500 mm**

Fast SAR: SAR(1g) = 0.612 W/kg; SAR(10g) = 0.433 W/kg

**0.6-2GHz Triple Flat Phone Template/5x5x7 Zoom Scan (0.6-2GHz) (21x21x36)/Cube 0:****Interpolated grid: dx=1.600 mm, dy=1.600 mm, dz=1.000 mm**

Reference Value = 25.886 V/m, Power Drift = -0.132 dB

Averaged SAR: SAR(1g) = 0.641 W/kg; SAR(10g) = 0.478 W/kg

**0.6-2GHz Triple Flat Phone Template**

Date/Time: 8/7/2013 5:53:42 PM

## Test Lab: Motorola Mobility

**DUT Serial: LDXU220015;**

Antenna: Internal;

Test Configuration: Body Worn, Back of Phone from Phantom

**DASY Configuration:**

- Probe: ES3DV3 - SN3180; ConvF(4.78,4.78,4.78); Calibrated: 2/11/2013;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn661; Calibrated: 5/21/2013
- Phantom: R#-1, Triple Flat Phantom 5.1C (Rev.4); Type: QD 000 P51 CA; Serial: n/a
- DASY52 52.8.7(1137); SEMCAD X Version 14.6.10 (7164)

Communication System: \_GPRS Class 10 (0); Communication System Band: 1900 MHz; Frequency: 1880 MHz; Duty Cycle: 1:4.150

Medium Parameters used:  $f=1880$  MHz;  $\sigma = 1.548$ ;  $\epsilon_r = 51.99$  mho/m;  $\rho = 1.000$  kg/m<sup>3</sup>

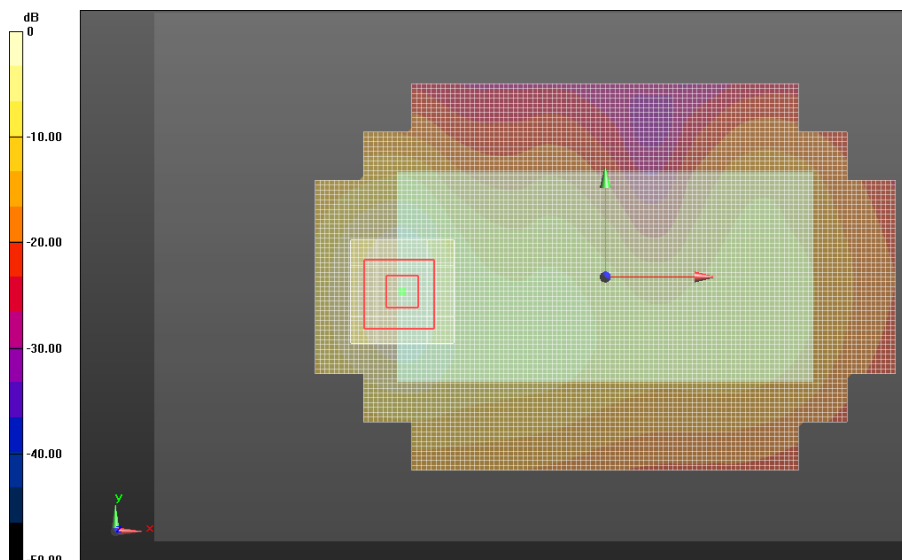
**0.6-2GHz Triple Flat Phone Template/Area Scan (15mm), not for EDGES (181x101x1):****Interpolated grid: dx=1.500 mm, dy=1.500 mm**

Fast SAR: SAR(1g) = 0.706 W/kg; SAR(10g) = 0.378 W/kg

**0.6-2GHz Triple Flat Phone Template/5x5x7 Zoom Scan (0.6-2GHz) (21x21x36)/Cube 0:****Interpolated grid: dx=1.600 mm, dy=1.600 mm, dz=1.000 mm**

Reference Value = 16.967 V/m, Power Drift = -0.146 dB

Averaged SAR: SAR(1g) = 0.711 W/kg; SAR(10g) = 0.409 W/kg



**0.6-2GHz Triple Flat Phone Template**

Date/Time: 7/25/2013 5:21:04 PM

## Test Lab: Motorola Mobility

**DUT Serial: LDXU220297;**

Antenna: Internal;

Test Configuration: Body Worn, Back of Phone from Phantom

**DASY Configuration:**

- Probe: ES3DV3 - SN3124; ConvF(6.02,6.02,6.02); Calibrated: 8/20/2012;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn376; Calibrated: 9/3/2012
- Phantom: R#2 Triple Flat Phantom 5.1C (Rev.4); Type: QD 000 P51 CA; Serial: n/a
- DASY52 52.8.7(1137); SEMCAD X Version 14.6.10 (7164)

Communication System: \_WCDMA (0); Communication System Band: WCDMA-850, Band 5;  
Frequency: 846.6 MHz; Duty Cycle: 1:1.000

Medium Parameters used:  $f=846.6$  MHz;  $\sigma = 1.010$ ;  $\epsilon_r = 53.43$  mho/m;  $\rho = 1.000$  kg/m<sup>3</sup>

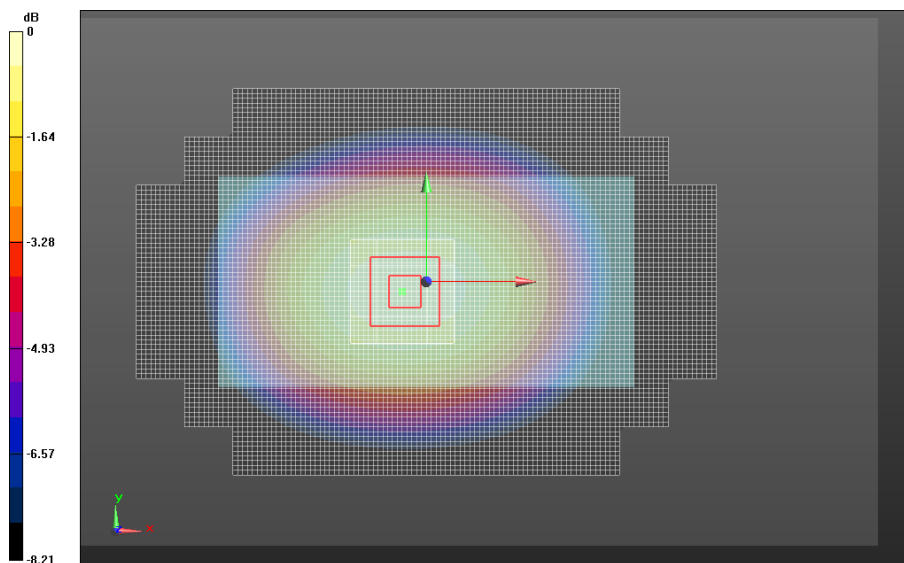
**0.6-2GHz Triple Flat Phone Template/Area Scan (15mm), not for EDGES (181x101x1):****Interpolated grid: dx=1.500 mm, dy=1.500 mm**

Fast SAR: SAR(1g) = 0.704 W/kg; SAR(10g) = 0.492 W/kg

**0.6-2GHz Triple Flat Phone Template/5x5x7 Zoom Scan (0.6-2GHz) (21x21x36)/Cube 0:****Interpolated grid: dx=1.600 mm, dy=1.600 mm, dz=1.000 mm**

Reference Value = 27.241 V/m, Power Drift = -0.041 dB

Averaged SAR: SAR(1g) = 0.708 W/kg; SAR(10g) = 0.530 W/kg

**0.6-2GHz Triple Flat Phone Template**

Date/Time: 7/26/2013 11:27:46 PM

## Test Lab: Motorola Mobility

**DUT Serial: LDXU220297;**

Antenna: Internal;

Test Configuration: Body Worn, Back of Phone from Phantom

**DASY Configuration:**

- Probe: ES3DV3 - SN3124; ConvF(4.76,4.76,4.76); Calibrated: 8/20/2012;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn376; Calibrated: 9/3/2012
- Phantom: R#2 Triple Flat Phantom 5.1C (Rev.4); Type: QD 000 P51 CA; Serial: n/a
- DASY52 52.8.7(1137); SEMCAD X Version 14.6.10 (7164)

Communication System: \_WCDMA (0); Communication System Band: WCDMA-1900, Band 2;  
Frequency: 1908 MHz; Duty Cycle: 1:1.000

Medium Parameters used:  $f=1907.6$  MHz;  $\sigma = 1.572$ ;  $\epsilon_r = 52.50$  mho/m;  $\rho = 1.000$  kg/m<sup>3</sup>

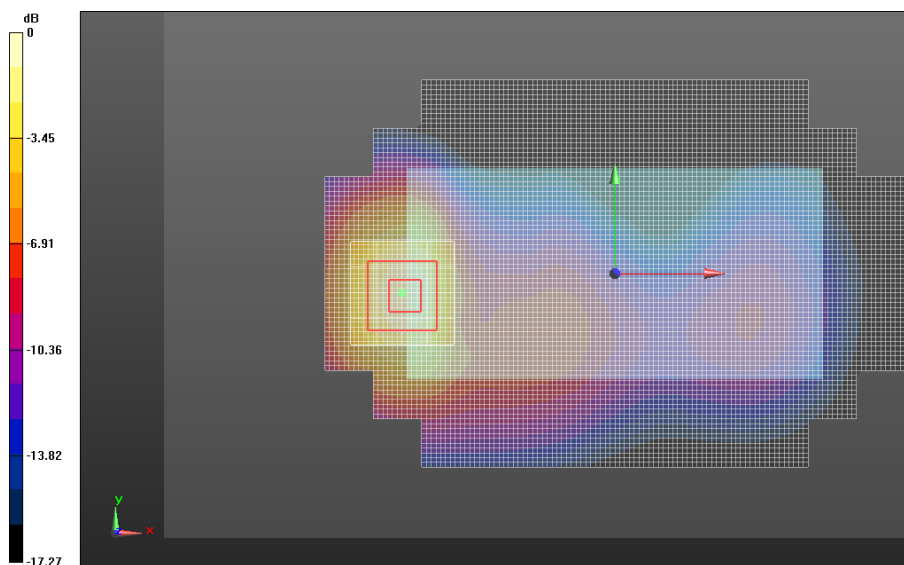
**0.6-2GHz Triple Flat Phone Template/Area Scan (15mm), not for EDGES (181x101x1):****Interpolated grid: dx=1.500 mm, dy=1.500 mm**

Fast SAR: SAR(1g) = 0.781 W/kg; SAR(10g) = 0.430 W/kg

**0.6-2GHz Triple Flat Phone Template/5x5x7 Zoom Scan (0.6-2GHz) (21x21x36)/Cube 0:****Interpolated grid: dx=1.600 mm, dy=1.600 mm, dz=1.000 mm**

Reference Value = 19.616 V/m, Power Drift = -0.048 dB

Averaged SAR: SAR(1g) = 0.806 W/kg; SAR(10g) = 0.461 W/kg

**0.6-2GHz Triple Flat Phone Template**

Date/Time: 2/13/2014 2:13:55 PM

## Test Lab: Motorola Mobility

### DUT Serial: TA8830NJK2;

Procedure Notes: Antenna: Internal

Test Position: Body Worn, Back of Phone 15 mm from Phantom

### DASY Configuration:

- Probe: EX3DV4 - SN3728; ConvF(7.13,7.13,7.13); Calibrated: 5/30/2013;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn784; Calibrated: 3/6/2013
- Phantom: R#-3, Triple Flat Phantom 5.1C (Rev.4); Type: QD 000 P51 CA; Serial: n/a
- DASY52 52.8.7(1137); SEMCAD X Version 14.6.8 (7028)

Communication System: Wi-Fi 2450 MHz; Band: 2450MHz WIFI; Frequency: 2412 MHz; Duty Cycle: 1:1.000  
Medium Parameters used:  $f=2412$  MHz;  $\sigma = 1.934$ ;  $\epsilon_r = 47.87$  mho/m;  $\rho = 1.000$  kg/m<sup>3</sup>

### 2-3GHz Triple Flat Phone Template/Area Scan (10mm) (261x141x1):

**Interpolated grid: dx=1.000 mm, dy=1.000 mm**

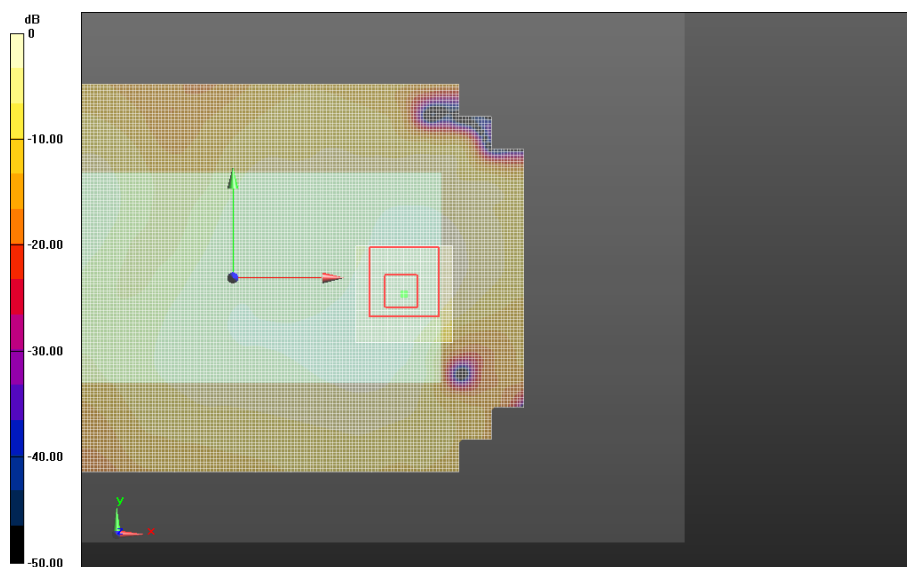
Fast SAR: SAR(1g) = 0.101 W/kg; SAR(10g) = 0.0545 W/kg

### 2-3GHz Triple Flat Phone Template/7x7x7 Zoom Scan (2-3GHz) (31x31x36)/Cube 0:

**Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm**

Reference Value = 6.787 V/m, Power Drift = -0.063 dB

Averaged SAR: SAR(1g) = 0.102 W/kg; SAR(10g) = 0.0540 W/kg



2-3GHz Triple Flat Phone Template

## **Appendix 4**

### **SAR Distribution Plots for Mobile Hotspot Test Results**

Date/Time: 8/6/2013 11:37:42 PM

## Test Lab: Motorola Mobility

**DUT Serial: LDXU220002;**

Antenna: Internal;

Test Configuration: Back of Phone 10 mm from Phantom

**DASY Configuration:**

- Probe: ES3DV3 - SN3180; ConvF(6.05,6.05,6.05); Calibrated: 2/11/2013;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn661; Calibrated: 5/21/2013
- Phantom: R#-1, Triple Flat Phantom 5.1C (Rev.4); Type: QD 000 P51 CA; Serial: n/a
- DASY52 52.8.7(1137); SEMCAD X Version 14.6.10 (7164)

Communication System: \_GSM (0); Communication System Band: GSM 850; Frequency: 836.6 MHz;  
Duty Cycle: 1:8.300

Medium Parameters used:  $f=836.6$  MHz;  $\sigma = 0.9992$ ;  $\epsilon_r = 54.03$  mho/m;  $\rho = 1.000$  kg/m<sup>3</sup>

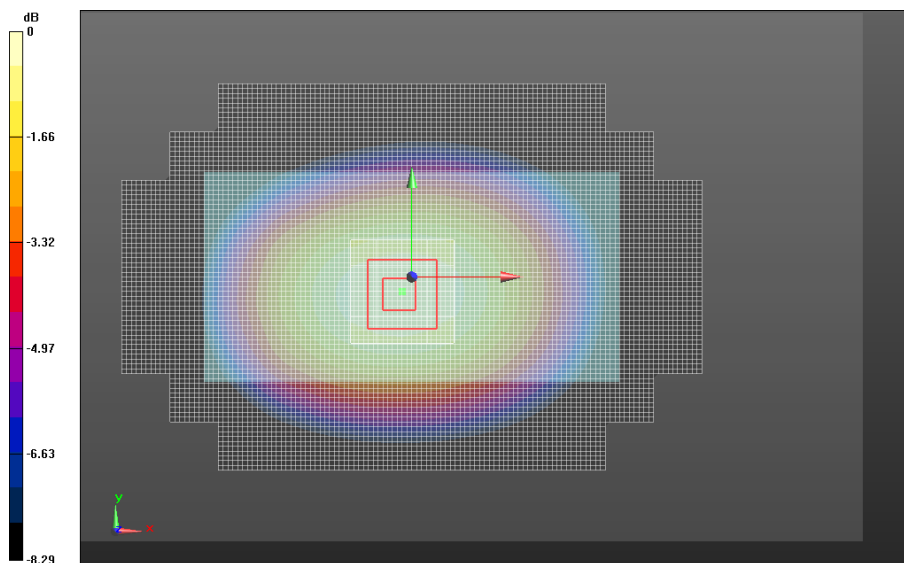
**0.6-2GHz Triple Flat Phone Template/Area Scan (15mm), not for EDGES (181x101x1):****Interpolated grid: dx=1.500 mm, dy=1.500 mm**

Fast SAR: SAR(1g) = 0.459 W/kg; SAR(10g) = 0.320 W/kg

**0.6-2GHz Triple Flat Phone Template/5x5x7 Zoom Scan (0.6-2GHz) (21x21x36)/Cube 0:****Interpolated grid: dx=1.600 mm, dy=1.600 mm, dz=1.000 mm**

Reference Value = 21.684 V/m, Power Drift = -0.048 dB

Averaged SAR: SAR(1g) = 0.457 W/kg; SAR(10g) = 0.343 W/kg

**0.6-2GHz Triple Flat Phone Template**

Date/Time: 8/6/2013 6:36:54 PM

## Test Lab: Motorola Mobility

**DUT Serial: LDXU220002;**

Antenna: Internal;

Test Configuration: Bottom Edge of Phone 10 mm from Phantom

**DASY Configuration:**

- Probe: ES3DV3 - SN3180; ConvF(4.78,4.78,4.78); Calibrated: 2/11/2013;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn661; Calibrated: 5/21/2013
- Phantom: R#-1, Triple Flat Phantom 5.1C (Rev.4); Type: QD 000 P51 CA; Serial: n/a
- DASY52 52.8.7(1137); SEMCAD X Version 14.6.10 (7164)

Communication System: \_GPRS Class 10 (0); Communication System Band: 1900 MHz; Frequency: 1880 MHz; Duty Cycle: 1:4.150

Medium Parameters used:  $f=1880$  MHz;  $\sigma = 1.544$ ;  $\epsilon_r = 52.52$  mho/m;  $\rho = 1.000$  kg/m<sup>3</sup>

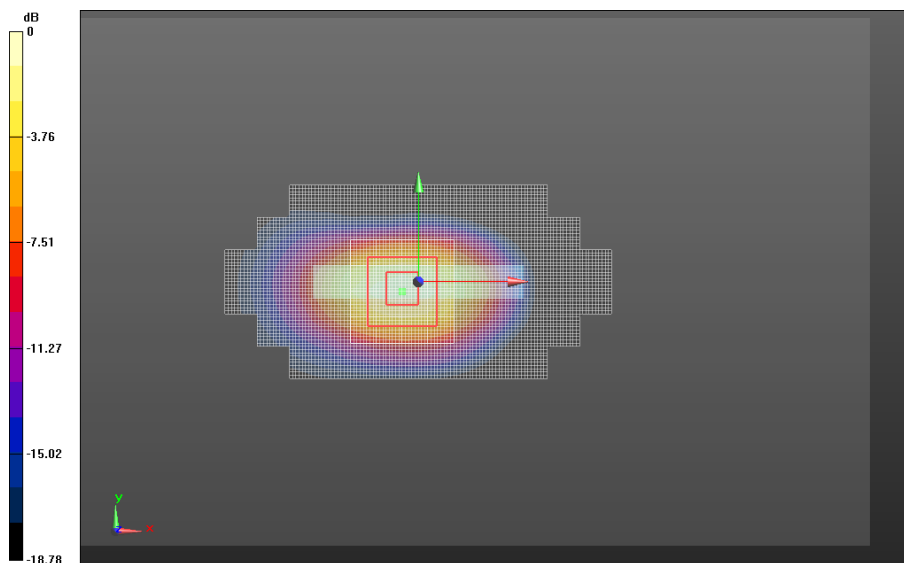
**0.6-2GHz Triple Flat Phone Template/Area Scan (10mm) (261x141x1):****Interpolated grid: dx=1.000 mm, dy=1.000 mm**

Fast SAR: SAR(1g) = 1.30 W/kg; SAR(10g) = 0.642 W/kg

**0.6-2GHz Triple Flat Phone Template/5x5x7 Zoom Scan (0.6-2GHz) (21x21x36)/Cube 0:****Interpolated grid: dx=1.600 mm, dy=1.600 mm, dz=1.000 mm**

Reference Value = 27.471 V/m, Power Drift = -0.079 dB

Averaged SAR: SAR(1g) = 1.29 W/kg; SAR(10g) = 0.655 W/kg

**0.6-2GHz Triple Flat Phone Template**

Date/Time: 7/25/2013 9:14:21 PM

## Test Lab: Motorola Mobility

**DUT Serial: LDXU220297;**

Antenna: Internal;

Test Configuration: Back of Phone 10 mm from Phantom

**DASY Configuration:**

- Probe: ES3DV3 - SN3124; ConvF(6.02,6.02,6.02); Calibrated: 8/20/2012;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn376; Calibrated: 9/3/2012
- Phantom: R#2 Triple Flat Phantom 5.1C (Rev.4); Type: QD 000 P51 CA; Serial: n/a
- DASY52 52.8.7(1137); SEMCAD X Version 14.6.10 (7164)

Communication System: \_WCDMA (0); Communication System Band: WCDMA-850, Band 5;  
Frequency: 836.0 MHz; Duty Cycle: 1:1.000

Medium Parameters used:  $f=836$  MHz;  $\sigma = 0.9983$ ;  $\epsilon_r = 53.54$  mho/m;  $\rho = 1.000$  kg/m<sup>3</sup>

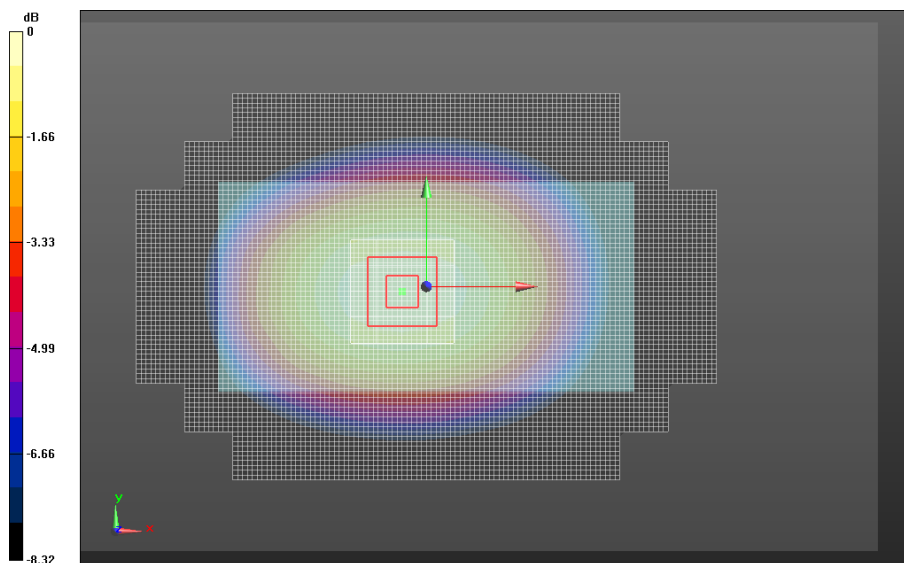
**0.6-2GHz Triple Flat Phone Template/Area Scan (15mm), not for EDGES (181x101x1):****Interpolated grid: dx=1.500 mm, dy=1.500 mm**

Fast SAR: SAR(1g) = 0.445 W/kg; SAR(10g) = 0.311 W/kg

**0.6-2GHz Triple Flat Phone Template/5x5x7 Zoom Scan (0.6-2GHz) (21x21x36)/Cube 0:****Interpolated grid: dx=1.600 mm, dy=1.600 mm, dz=1.000 mm**

Reference Value = 21.909 V/m, Power Drift = -0.024 dB

Averaged SAR: SAR(1g) = 0.445 W/kg; SAR(10g) = 0.337 W/kg

**0.6-2GHz Triple Flat Phone Template**

Date/Time: 7/26/2013 9:16:24 PM

## Test Lab: Motorola Mobility

**DUT Serial: LDXU220297;**

Antenna: Internal;

Test Configuration: Bottom Edge of Phone 10 mm from Phantom

**DASY Configuration:**

- Probe: ES3DV3 - SN3124; ConvF(4.76,4.76,4.76); Calibrated: 8/20/2012;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn376; Calibrated: 9/3/2012
- Phantom: R#2 Triple Flat Phantom 5.1C (Rev.4); Type: QD 000 P51 CA; Serial: n/a
- DASY52 52.8.7(1137); SEMCAD X Version 14.6.10 (7164)

Communication System: \_WCDMA (0); Communication System Band: WCDMA-1900, Band 2;  
Frequency: 1908 MHz; Duty Cycle: 1:1.000

Medium Parameters used:  $f=1907.6$  MHz;  $\sigma = 1.572$ ;  $\epsilon_r = 52.50$  mho/m;  $\rho = 1.000$  kg/m<sup>3</sup>

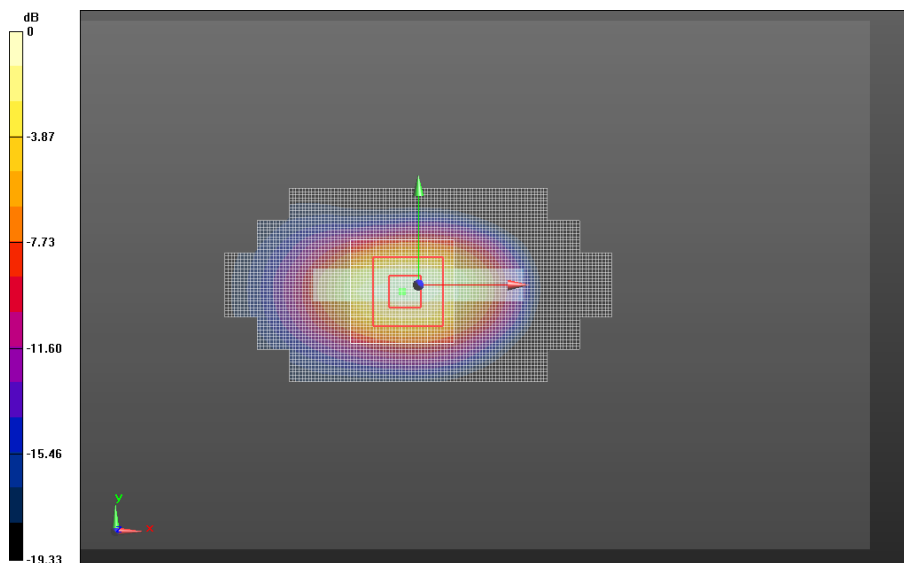
**0.6-2GHz Triple Flat Phone Template/Area Scan (10mm) (261x141x1):****Interpolated grid: dx=1.000 mm, dy=1.000 mm**

Fast SAR: SAR(1g) = 0.816 W/kg; SAR(10g) = 0.403 W/kg

**0.6-2GHz Triple Flat Phone Template/5x5x7 Zoom Scan (0.6-2GHz) (21x21x36)/Cube 0:****Interpolated grid: dx=1.600 mm, dy=1.600 mm, dz=1.000 mm**

Reference Value = 21.167 V/m, Power Drift = -0.023 dB

Averaged SAR: SAR(1g) = 0.814 W/kg; SAR(10g) = 0.413 W/kg

**0.6-2GHz Triple Flat Phone Template**

Date/Time: 2/13/2014 2:50:58 PM

## Test Lab: Motorola Mobility

### DUT Serial: TA8830NJK2

Procedure Notes: Antenna: Internal

Test Position: Mobile Hotspot Position, Back of Phone 10 mm from Phantom

### DASY Configuration:

- Probe: EX3DV4 - SN3728; ConvF(7.13,7.13,7.13); Calibrated: 5/30/2013;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn784; Calibrated: 3/6/2013
- Phantom: R#-3, Triple Flat Phantom 5.1C (Rev.4); Type: QD 000 P51 CA; Serial: n/a
- DASY52 52.8.7(1137); SEMCAD X Version 14.6.8 (7028)

Communication System: Wi-Fi 2450 MHz; Band: 2450MHz WIFI; Frequency: 2412 MHz; Duty Cycle: 1:1.000  
Medium Parameters used:  $f=2412$  MHz;  $\sigma = 1.934$ ;  $\epsilon_r = 47.87$  mho/m;  $\rho = 1.000$  kg/m<sup>3</sup>

### 2-3GHz Triple Flat Phone Template/Area Scan (10mm) (261x141x1):

**Interpolated grid: dx=1.000 mm, dy=1.000 mm**

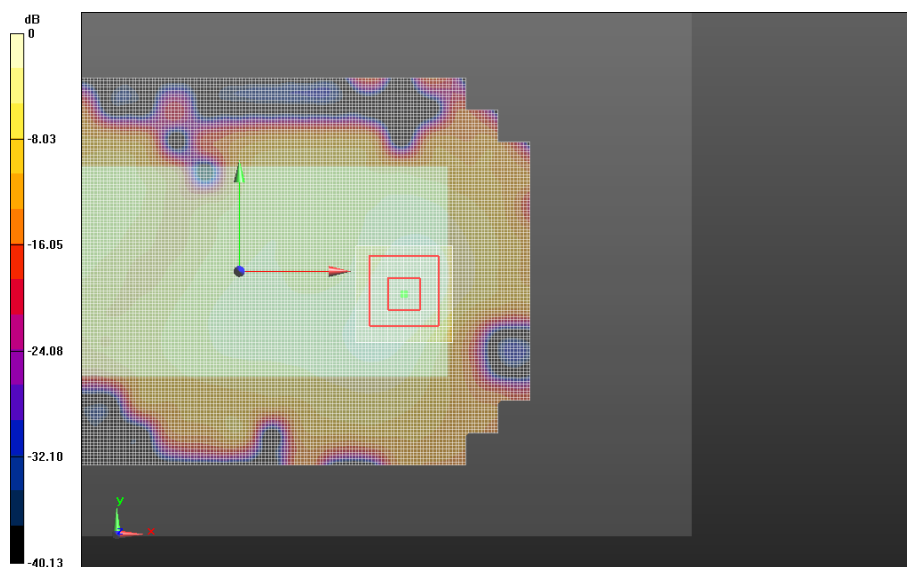
Fast SAR: SAR(1g) = 0.216 W/kg; SAR(10g) = 0.110 W/kg

### 2-3GHz Triple Flat Phone Template/7x7x7 Zoom Scan (2-3GHz) (31x31x36)/Cube 0:

**Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm**

Reference Value = 9.357 V/m, Power Drift = 0.051 dB

Averaged SAR: SAR(1g) = 0.220 W/kg; SAR(10g) = 0.111 W/kg



2-3GHz Triple Flat Phone Template

## **Appendix 5**

### **Measurement Uncertainty Budget**

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

| <i>a</i>                               | <i>b</i>                                              | <i>c</i>      | <i>d</i>     | <i>e = f(d,k)</i> | <i>f</i>                      | <i>g</i>                       | <i>h =<br/>c x f / e</i>            | <i>i =<br/>c x g / e</i>             | <i>k</i>             |
|----------------------------------------|-------------------------------------------------------|---------------|--------------|-------------------|-------------------------------|--------------------------------|-------------------------------------|--------------------------------------|----------------------|
| Uncertainty Component                  | Description<br>IEEE 1528(2003) /<br>IEC 62209-1(2005) | Tol.<br>(± %) | Prob<br>Dist | Div.              | <i>c<sub>i</sub></i><br>(1 g) | <i>c<sub>i</sub></i><br>(10 g) | 1 g<br><i>u<sub>i</sub></i><br>(±%) | 10 g<br><i>u<sub>i</sub></i><br>(±%) | <i>v<sub>i</sub></i> |
| <b>Measurement System</b>              |                                                       |               |              |                   |                               |                                |                                     |                                      |                      |
| 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                                       | 2.9           | R            | 1.73              | 1                             | 1                              | 1.7                                 | 1.7                                  | ∞                    |
| Max. SAR Evaluation (ext., int., avg.) | E.5 / 7.2.4                                           | 3.4           | R            | 1.73              | 1                             | 1                              | 2.0                                 | 2.0                                  | ∞                    |
| <b>Test sample Related</b>             |                                                       |               |              |                   |                               |                                |                                     |                                      |                      |
| 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                                  | ∞                    |
| <b>Phantom and Tissue Parameters</b>   |                                                       |               |              |                   |                               |                                |                                     |                                      |                      |
| Phantom Uncertainty                    | E.3.1 / 7.2.2.2                                       | 6.1           | R            | 1.73              | 1                             | 1                              | 3.5                                 | 3.5                                  | ∞                    |
| SAR Correction                         |                                                       | 1.9           | R            | 1.73              | 1                             | 0.84                           | 1.1                                 | 0.9                                  | ∞                    |
| Liquid Conductivity (measurement)      | E.3.3 / 7.2.3.3                                       | 1.3           | N            | 1.00              | 0.64                          | 0.43                           | 0.9                                 | 0.6                                  | 6                    |
| Liquid Permittivity (measurement)      | E.3.2 / 7.2.3.4                                       | 0.7           | N            | 1.00              | 0.6                           | 0.49                           | 0.4                                 | 0.3                                  | 6                    |
| <b>Combined Standard Uncertainty</b>   |                                                       |               |              |                   |                               |                                |                                     |                                      |                      |
| <b>Expanded Uncertainty</b>            |                                                       |               |              |                   |                               |                                |                                     |                                      |                      |
| (95% CONFIDENCE LEVEL)                 |                                                       |               |              |                   |                               |                                |                                     |                                      |                      |
|                                        |                                                       |               | RSS          |                   |                               |                                | 11                                  | 11                                   | 390                  |
|                                        |                                                       |               | k=2          |                   |                               |                                | 22                                  | 22                                   |                      |