

Appendix 1

SAR Distribution Plots for Test System Verification

System Accuracy Verification Measurements for Head SAR Measurements

Date/Time: 5/9/2013 7:55:18 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 Sn656; Calibrated: 2/7/2013
- Phantom: R#1 - Sugar SAM (extended range), Rev.2 (24-Feb-12); Type: SAM v4.0; Serial: TP-1156
- DASY52 52.8.5(1059); 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; $\sigma = 0.9473$; $\epsilon_r = 42.26$ mho/m; $\rho = 1.000$ kg/m³

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

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

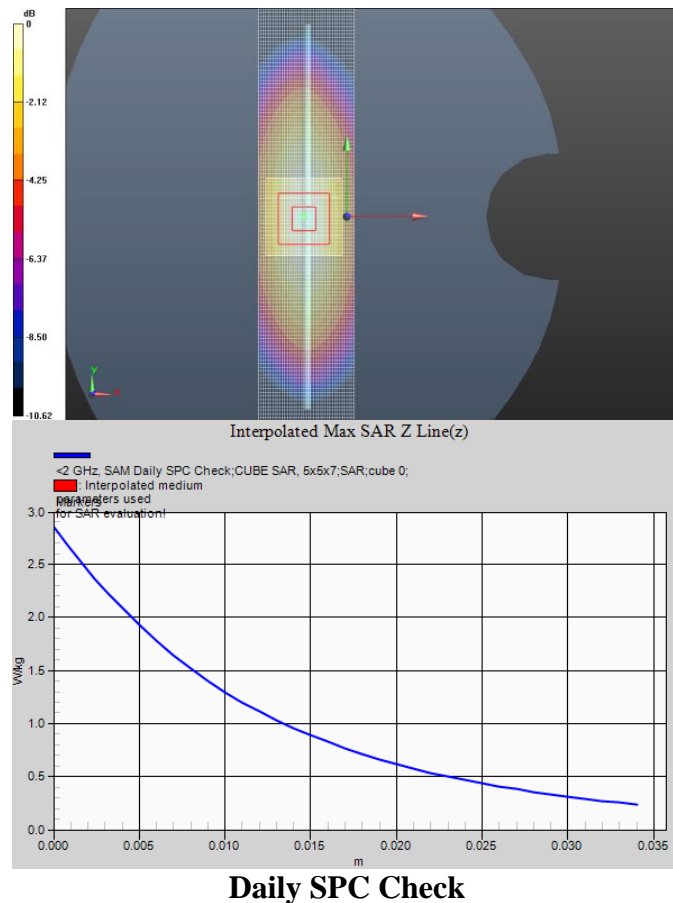
Fast SAR: SAR(1g) = 1.87 W/kg; SAR(10g) = 1.25 W/kg

<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 = 47.805 V/m, Power Drift = -0.014 dB

Averaged SAR: SAR(1g) = 1.86 W/kg; SAR(10g) = 1.23 W/kg



Date/Time: 5/15/2013 7:23:39 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 Sn715; Calibrated: 1/28/2013
- Phantom: R#1 - Sugar SAM (extended range), Rev.2 (24-Feb-12); Type: SAM v4.0; Serial: TP-1156
- DASY52 52.8.5(1059); 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; $\sigma = 0.9412$; $\epsilon_r = 41.81$ mho/m; $\rho = 1.000$ kg/m³

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

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

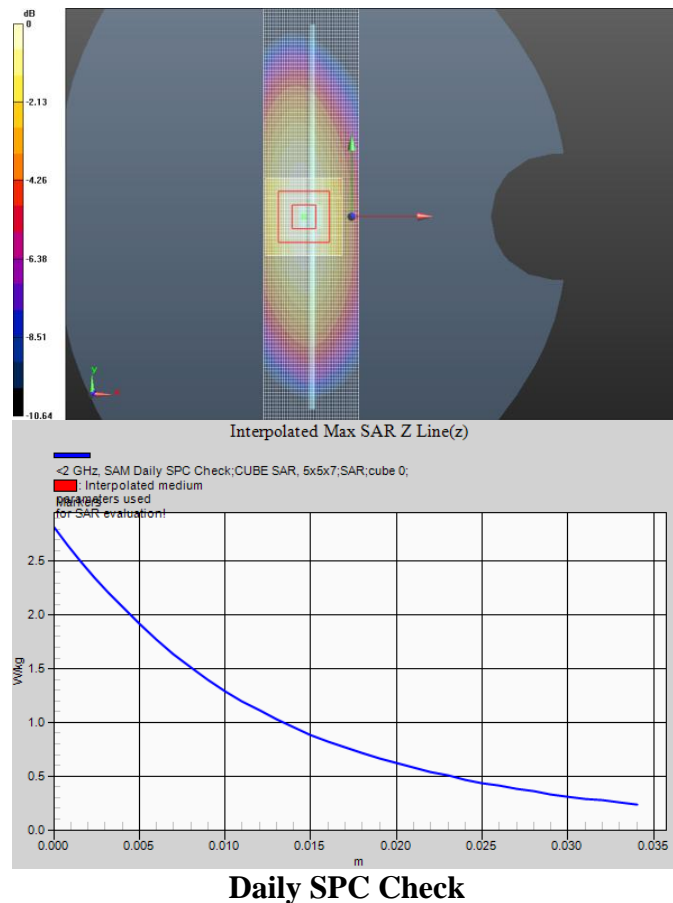
Fast SAR: SAR(1g) = 1.86 W/kg; SAR(10g) = 1.24 W/kg

<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 = 46.925 V/m, Power Drift = 0.040 dB

Averaged SAR: SAR(1g) = 1.86 W/kg; SAR(10g) = 1.22 W/kg



Date/Time: 5/9/2013 7:27:50 AM

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

DUT Serial: D1800V2 - SN:259tr

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 Sn656; Calibrated: 2/7/2013
- Phantom: R#-1, Triple Flat Phantom 5.1C (Rev.4); Type: QD 000 P51 CA; Serial: n/a
- DASY52 52.8.5(1059); 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; $\sigma = 1.353$; $\epsilon_r = 38.16$ mho/m; $\rho = 1.000$ kg/m³

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

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

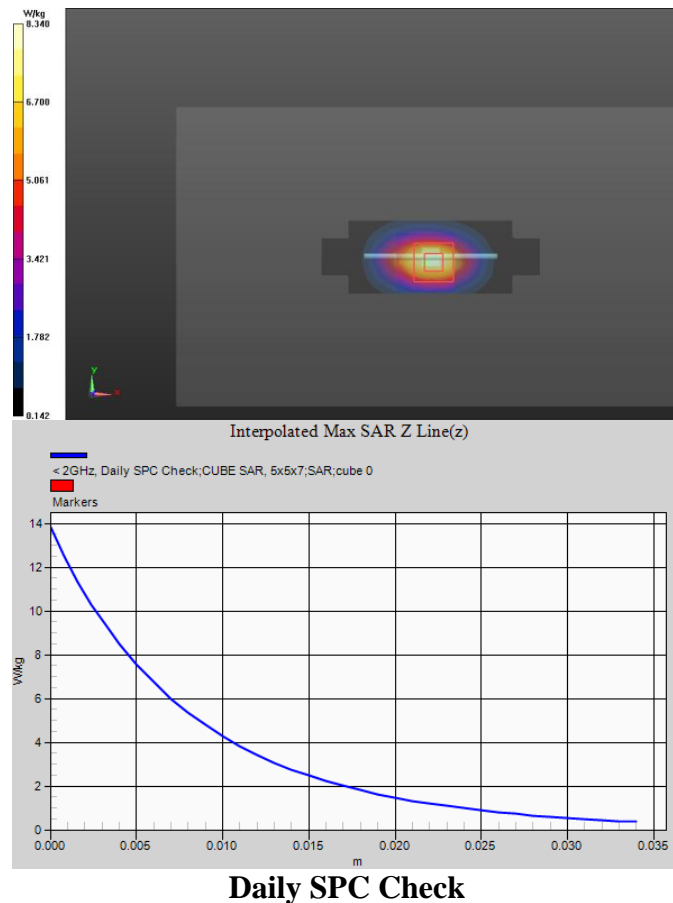
Fast SAR: SAR(1g) = 7.55 W/kg; SAR(10g) = 4.10 W/kg

< 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 = 79.816 V/m, Power Drift = 0.00635 dB

Averaged SAR: SAR(1g) = 7.65 W/kg; SAR(10g) = 4.04 W/kg



Date/Time: 6/10/2013 7:50:14 AM

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

DUT Serial: D835V2 - SN:436tr

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 52.8.5(1059); 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; $\sigma = 0.9250$; $\epsilon_r = 41.03$ mho/m; $\rho = 1.000$ kg/m³

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

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

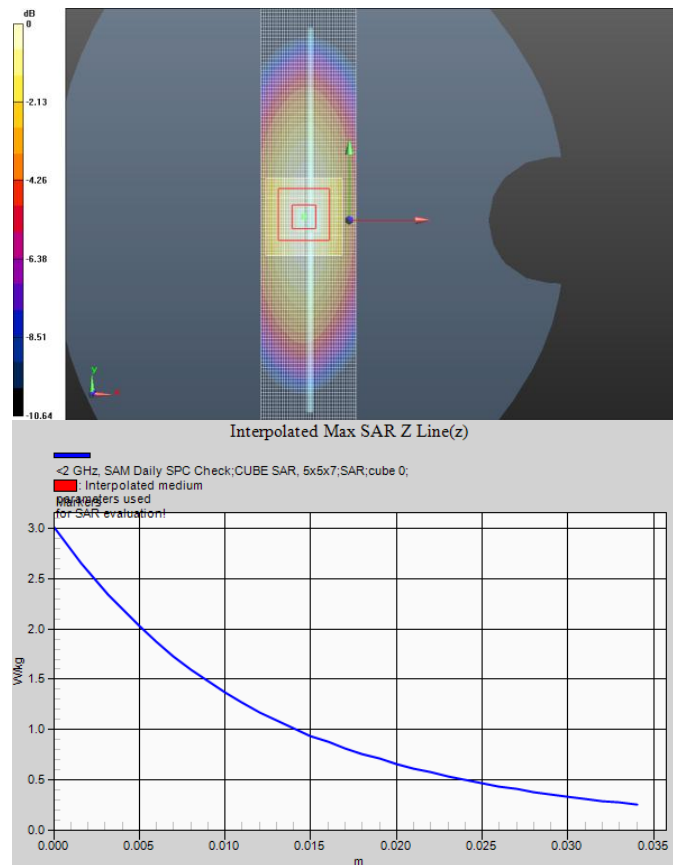
Fast SAR: SAR(1g) = 1.99 W/kg; SAR(10g) = 1.33 W/kg

<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 = 49.231 V/m, Power Drift = -0.016 dB

Averaged SAR: SAR(1g) = 1.99 W/kg; SAR(10g) = 1.30 W/kg



Date/Time: 5/14/2013 7:32:35 AM

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

DUT Serial: D1800V2 - SN:2d190

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 52.8.5(1059); 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; $\sigma = 1.340$; $\epsilon_r = 37.67$ mho/m; $\rho = 1.000$ kg/m³

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

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

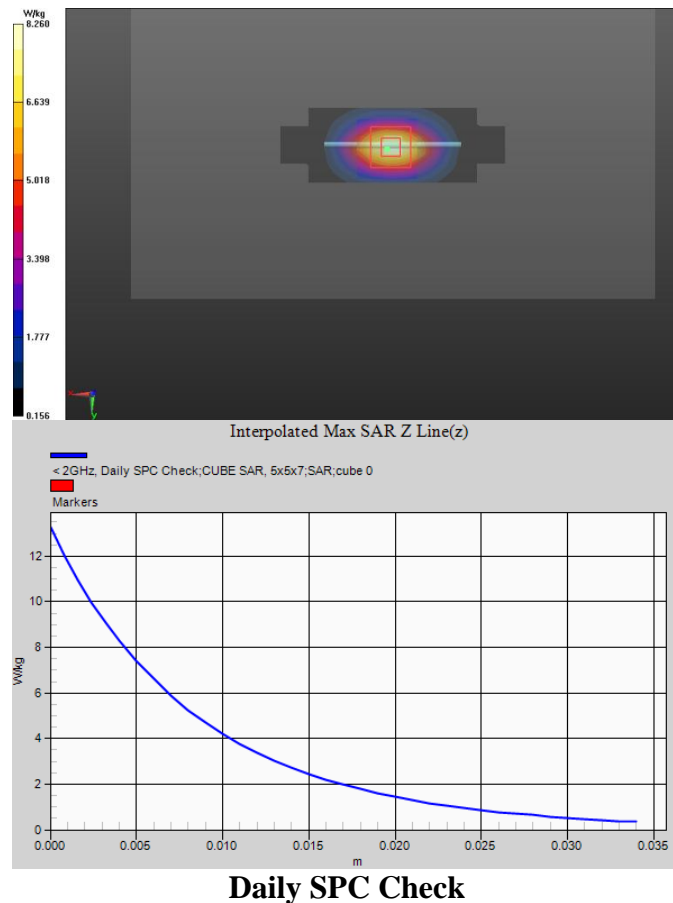
Fast SAR: SAR(1g) = 7.58 W/kg; SAR(10g) = 4.10 W/kg

< 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 = 79.817 V/m, Power Drift = -0.00138 dB

Averaged SAR: SAR(1g) = 7.49 W/kg; SAR(10g) = 3.96 W/kg



Date/Time: 5/22/2013 7:10:15 AM

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

DUT Serial: D1800V2 - SN:2d190

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 52.8.5(1059); 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; $\sigma = 1.332$; $\epsilon_r = 36.85$ mho/m; $\rho = 1.000$ kg/m³

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

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

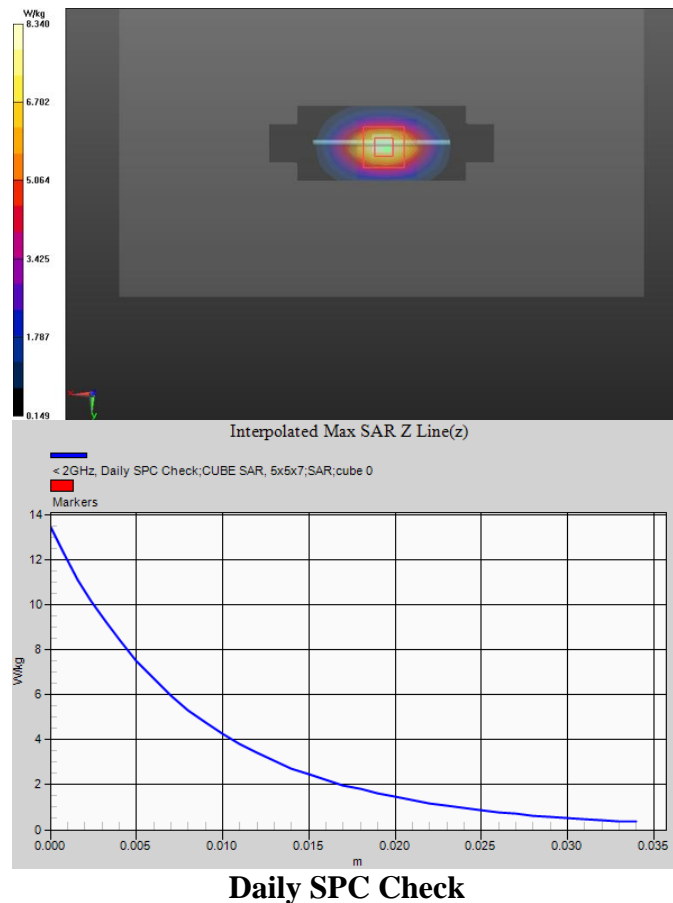
Fast SAR: SAR(1g) = 7.70 W/kg; SAR(10g) = 4.17 W/kg

< 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 = 80.327 V/m, Power Drift = -0.022 dB

Averaged SAR: SAR(1g) = 7.58 W/kg; SAR(10g) = 3.99 W/kg



Date/Time: 6/17/2013 7:19:27 AM

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

DUT Serial: D1800V2 - SN:2d190

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 52.8.5(1059); SEMCAD X Version 14.6.8 (7028)

Communication System: CW for SAR Dipoles; Frequency: 1800 MHz; Duty Cycle: 1:1.000
 Medium Parameters used: $f=1800$ MHz; $\sigma = 1.347$; $\epsilon_r = 38.21$ mho/m; $\rho = 1.000$ kg/m³

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

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

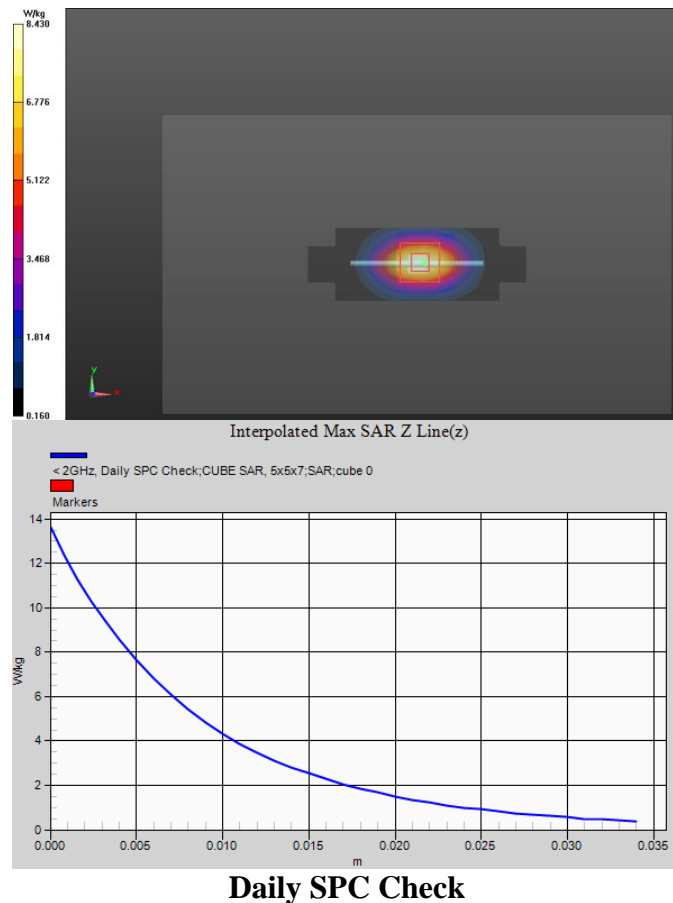
Fast SAR: SAR(1g) = 7.78 W/kg; SAR(10g) = 4.19 W/kg

< 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 = 80.593 V/m, Power Drift = -0.015 dB

Averaged SAR: SAR(1g) = 7.69 W/kg; SAR(10g) = 4.06 W/kg



Date/Time: 6/4/2013 4:05:23 PM

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

DUT Serial: D2450V2 - SN:877

DASY Configuration:

- Probe: EX3DV4 - SN3730; ConvF(6.9,6.9,6.9); Calibrated: 8/24/2012;
- 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 52.8.5(1059); SEMCAD X Version 14.6.10 (7164)

Communication System: CW for SAR Dipoles; Frequency: 2450 MHz; Duty Cycle: 1:1.000
 Medium Parameters used: $f=2450$ MHz; $\sigma = 1.809$; $\epsilon_r = 36.04$ mho/m; $\rho = 1.000$ kg/m³

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

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

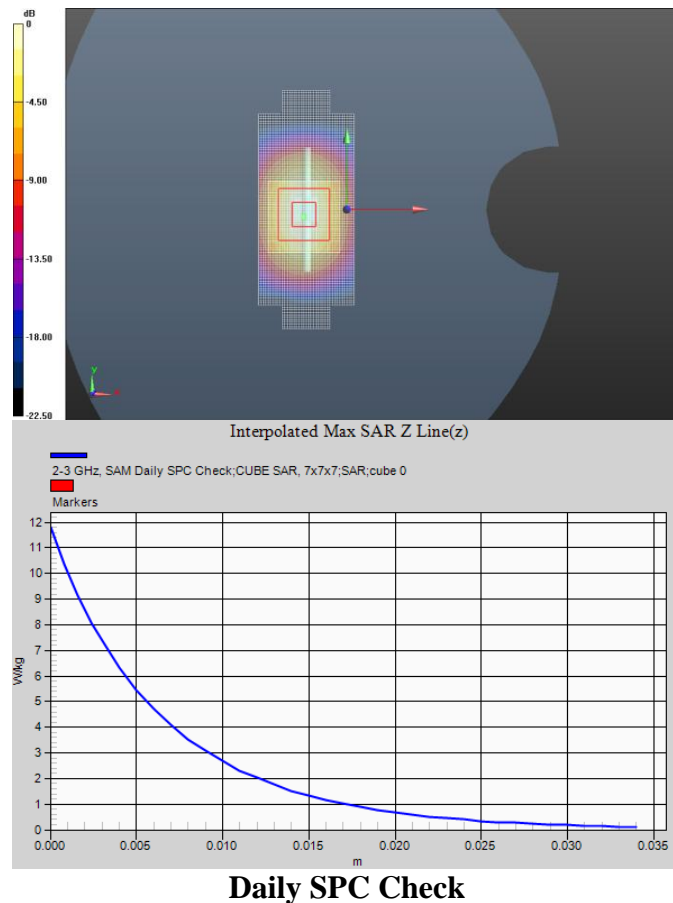
Fast SAR: SAR(1g) = 5.45 W/kg; SAR(10g) = 2.60 W/kg

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 = 59.056 V/m, Power Drift = -0.036 dB

Averaged SAR: SAR(1g) = 5.45 W/kg; SAR(10g) = 2.53 W/kg



Date/Time: 6/4/2013 11:14:45 PM

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

DUT Serial: D5GHzV2 - SN:1098

DASY Configuration:

- Probe: EX3DV4 - SN3730; ConvF(4.9,4.9,4.9); Calibrated: 8/24/2012;
- Sensor-Surface: 2 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn784; Calibrated: 3/6/2013
- Phantom: R#3, 5GHz SAM, REV.2 (13nov12); Type: SAM; Serial: TP-1106
- DASY52 52.8.5(1059); SEMCAD X Version 14.6.10 (7164)

Communication System: CW for SAR Dipoles; Frequency: 5200 MHz; Duty Cycle: 1:1.000
 Medium Parameters used: $f=5200$ MHz; $\sigma = 4.543$; $\epsilon_r = 34.09$ mho/m; $\rho = 1.000$ kg/m³

5-6 GHz, SAM Daily SPC Check/fastSAR, Dipole Area Scan (41x211x1):

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

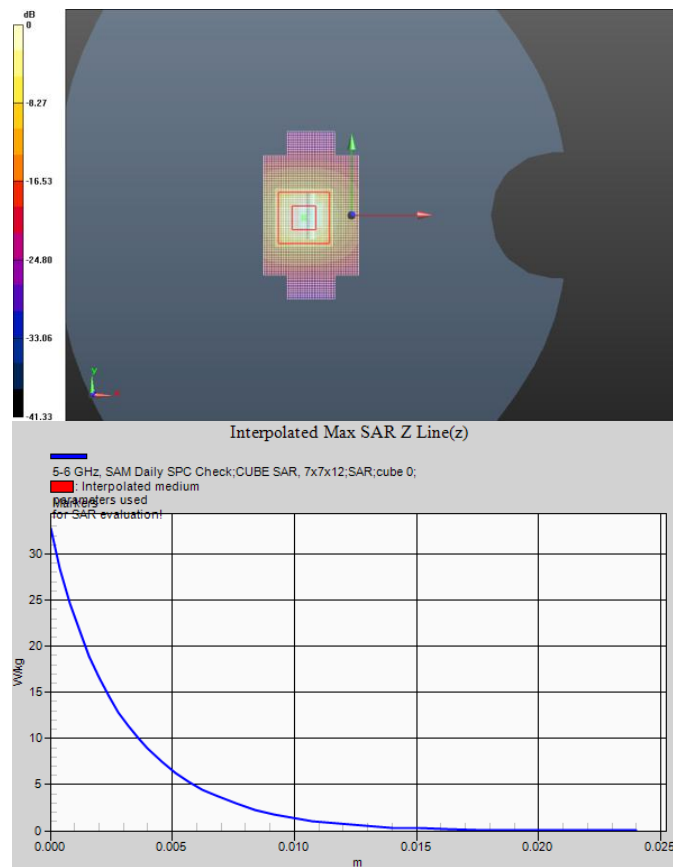
Fast SAR: SAR(1g) = 7.57 W/kg; SAR(10g) = 2.10 W/kg

5-6 GHz, SAM Daily SPC Check/CUBE SAR, 7x7x12 (31x31x31)/Cube 0:

Interpolated grid: $dx=0.800$ mm, $dy=0.800$ mm, $dz=0.400$ mm

Reference Value = 60.174 V/m, Power Drift = 0.022 dB

Averaged SAR: SAR(1g) = 7.80 W/kg; SAR(10g) = 2.21 W/kg



Daily SPC Check

Date/Time: 6/5/2013 2:28:35 AM

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

DUT Serial: D5GHzV2 - SN:1098

DASY Configuration:

- Probe: EX3DV4 - SN3730; ConvF(4.24,4.24,4.24); Calibrated: 8/24/2012;
- Sensor-Surface: 2 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn784; Calibrated: 3/6/2013
- Phantom: R#3, 5GHz SAM, REV.2 (13nov12); Type: SAM; Serial: TP-1106
- DASY52 52.8.5(1059); SEMCAD X Version 14.6.10 (7164)

Communication System: CW for SAR Dipoles; Frequency: 5800 MHz; Duty Cycle: 1:1.000
 Medium Parameters used: $f=5800$ MHz; $\sigma = 5.200$; $\epsilon_r = 32.80$ mho/m; $\rho = 1.000$ kg/m³

5-6 GHz, SAM Daily SPC Check/fastSAR, Dipole Area Scan (41x211x1):

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

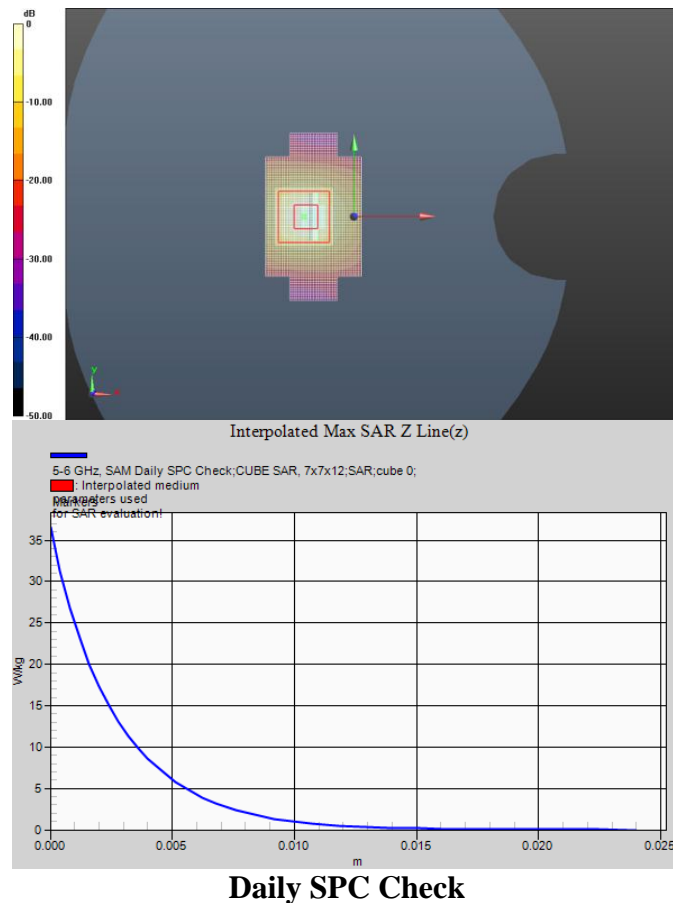
Fast SAR: SAR(1g) = 7.58 W/kg; SAR(10g) = 2.10 W/kg

5-6 GHz, SAM Daily SPC Check/CUBE SAR, 7x7x12 (31x31x31)/Cube 0:

Interpolated grid: $dx=0.800$ mm, $dy=0.800$ mm, $dz=0.400$ mm

Reference Value = 58.461 V/m, Power Drift = -0.050 dB

Averaged SAR: SAR(1g) = 7.89 W/kg; SAR(10g) = 2.21 W/kg



Daily SPC Check

Date/Time: 5/14/2013 7:52:15 AM

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

DUT Serial: D835V2 - SN:423tr

DASY Configuration:

- Probe: ES3DV3 - SN3037; ConvF(6.23,6.23,6.23); Calibrated: 9/13/2012;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn703; Calibrated: 9/11/2012
- Phantom: R#4 Sugar SAM (extended range), Rev.2 (24-Feb-12); Type: SAM v4.0; Serial: TP-1132
- DASY52 52.8.5(1059); 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; $\sigma = 0.9221$; $\epsilon_r = 40.41$ mho/m; $\rho = 1.000$ kg/m³

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

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

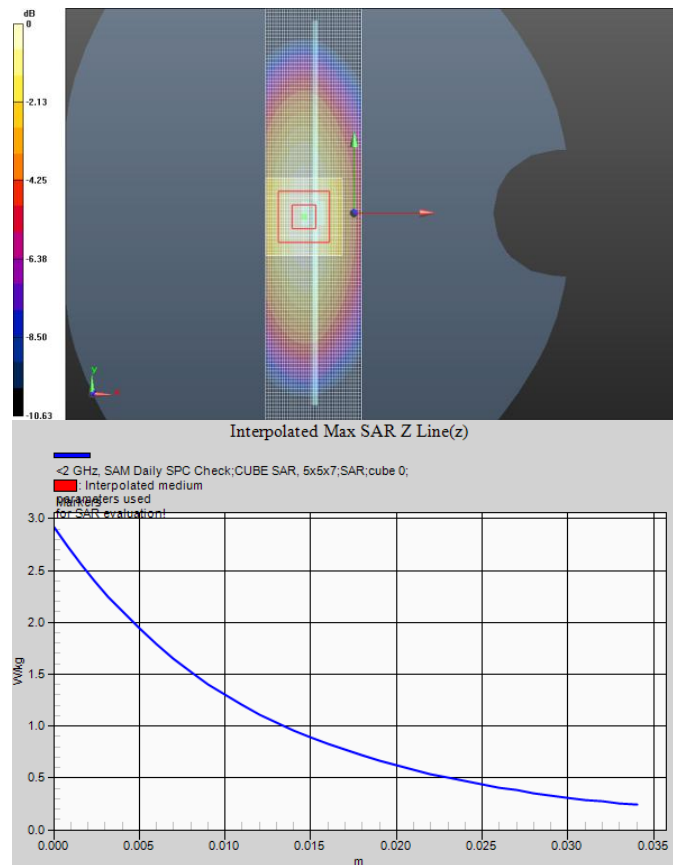
Fast SAR: SAR(1g) = 1.90 W/kg; SAR(10g) = 1.27 W/kg

<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 = 47.407 V/m, Power Drift = 0.019 dB

Averaged SAR: SAR(1g) = 1.90 W/kg; SAR(10g) = 1.24 W/kg



Date/Time: 5/8/2013 7:14:41 AM

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

DUT Serial: D1800V2 - SN:2d191

DASY Configuration:

- Probe: ES3DV3 - SN3037; ConvF(5.15,5.15,5.15); Calibrated: 9/13/2012;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn703; Calibrated: 9/11/2012
- Phantom: R#4 Triple Flat Phantom 5.1C (Rev.4); Type: QD 000 P51 CA; Serial: n/a
- DASY52 52.8.5(1059); 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; $\sigma = 1.334$; $\epsilon_r = 38.28$ mho/m; $\rho = 1.000$ kg/m³

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

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

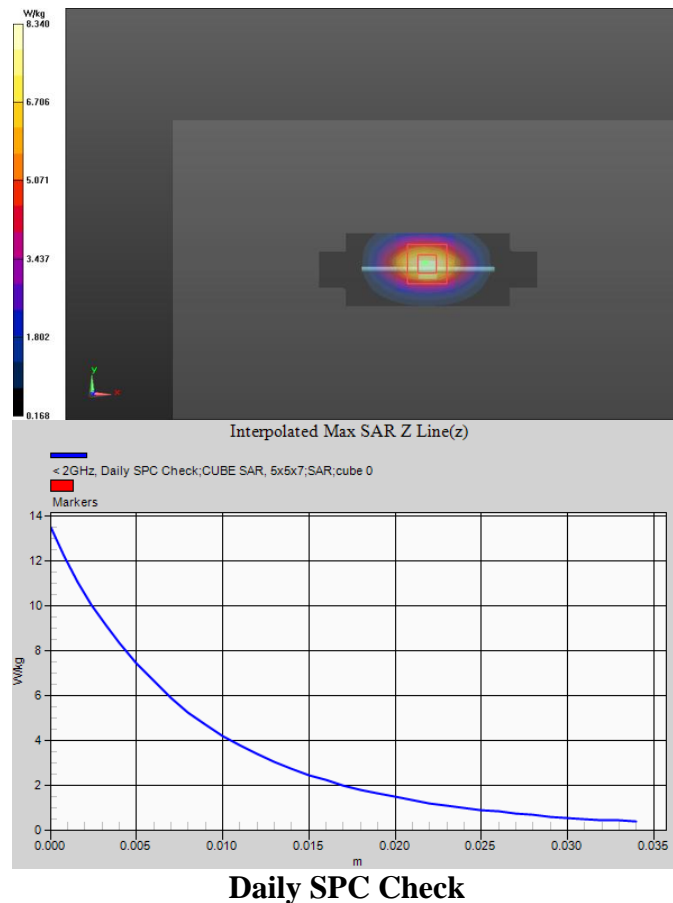
Fast SAR: SAR(1g) = 7.64 W/kg; SAR(10g) = 4.13 W/kg

< 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 = 78.623 V/m, Power Drift = -0.034 dB

Averaged SAR: SAR(1g) = 7.60 W/kg; SAR(10g) = 3.99 W/kg



System Accuracy Verification Measurements for Body SAR Measurements

Date/Time: 5/9/2013 3:36:57 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 Sn656; Calibrated: 2/7/2013
- Phantom: R#-1, Triple Flat Phantom 5.1C (Rev.4); Type: QD 000 P51 CA; Serial: n/a
- DASY52 52.8.5(1059); 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; $\sigma = 0.9958$; $\epsilon_r = 52.92$ mho/m; $\rho = 1.000$ kg/m³

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

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

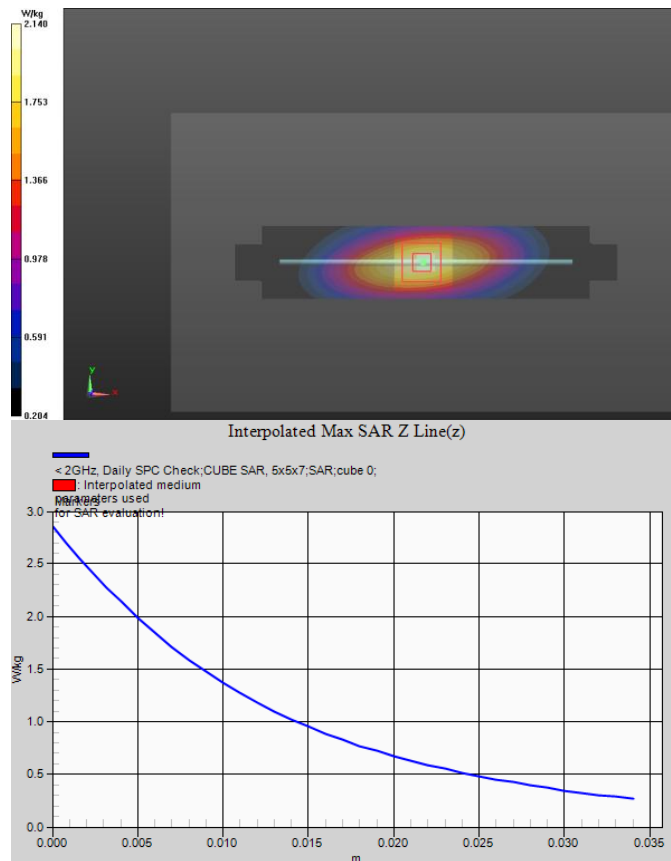
Fast SAR: SAR(1g) = 1.92 W/kg; SAR(10g) = 1.28 W/kg

< 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 = 46.942 V/m, Power Drift = 0.047 dB

Averaged SAR: SAR(1g) = 1.93 W/kg; SAR(10g) = 1.28 W/kg



Date/Time: 5/15/2013 7:52:44 AM

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 Sn715; Calibrated: 1/28/2013
- Phantom: R#-1, Triple Flat Phantom 5.1C (Rev.4); Type: QD 000 P51 CA; Serial: n/a
- DASY52 52.8.5(1059); 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; $\sigma = 0.9940$; $\epsilon_r = 52.62$ mho/m; $\rho = 1.000$ kg/m³

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

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

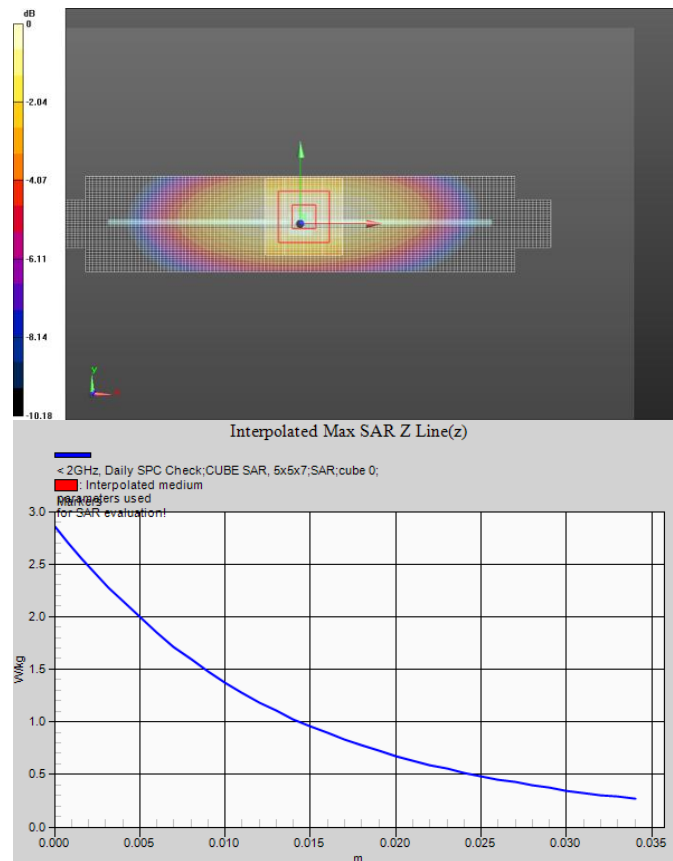
Fast SAR: SAR(1g) = 1.94 W/kg; SAR(10g) = 1.29 W/kg

< 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 = 48.056 V/m, Power Drift = -0.153 dB

Averaged SAR: SAR(1g) = 1.93 W/kg; SAR(10g) = 1.28 W/kg



Daily SPC Check

Date/Time: 5/9/2013 11:26:27 PM

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

DUT Serial: D1800V2 - SN:259tr

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 Sn656; Calibrated: 2/7/2013
- Phantom: R#-1, Triple Flat Phantom 5.1C (Rev.4); Type: QD 000 P51 CA; Serial: n/a
- DASY52 52.8.5(1059); 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; $\sigma = 1.447$; $\epsilon_r = 50.64$ mho/m; $\rho = 1.000$ kg/m³

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

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

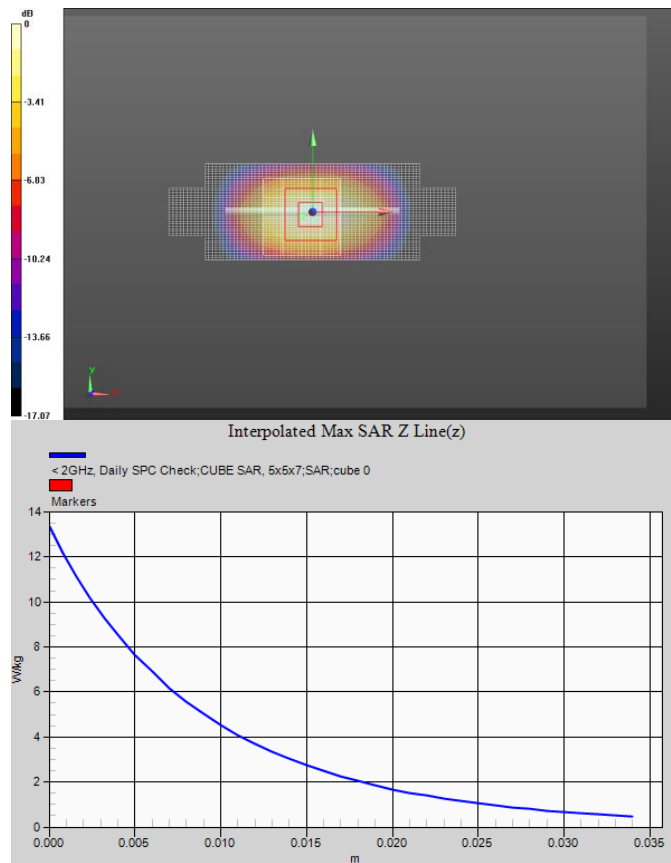
Fast SAR: SAR(1g) = 7.79 W/kg; SAR(10g) = 4.16 W/kg

< 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 = 78.688 V/m, Power Drift = 0.011 dB

Averaged SAR: SAR(1g) = 7.73 W/kg; SAR(10g) = 4.13 W/kg



Date/Time: 5/14/2013 3:52:42 PM

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

DUT Serial: D1800V2 - SN:259tr

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 Sn715; Calibrated: 1/28/2013
- Phantom: R#-1, Triple Flat Phantom 5.1C (Rev.4); Type: QD 000 P51 CA; Serial: n/a
- DASY52 52.8.5(1059); 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; $\sigma = 1.430$; $\epsilon_r = 50.26$ mho/m; $\rho = 1.000$ kg/m³

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

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

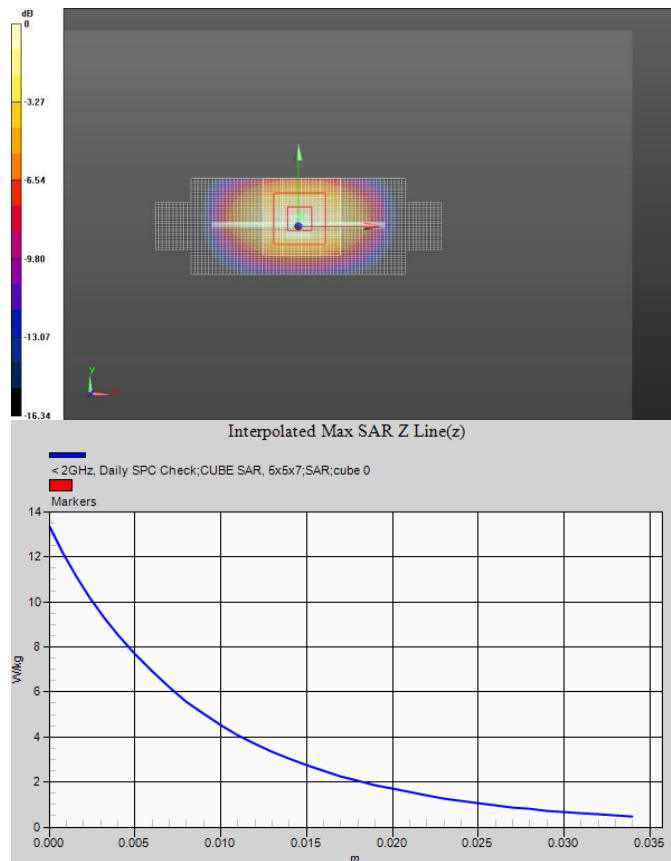
Fast SAR: SAR(1g) = 7.83 W/kg; SAR(10g) = 4.17 W/kg

< 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 = 77.980 V/m, Power Drift = 0.075 dB

Averaged SAR: SAR(1g) = 7.82 W/kg; SAR(10g) = 4.16 W/kg



Date/Time: 6/18/2013 2:49:42 PM

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

DUT Serial: D1800V2 - SN:2d190

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 52.8.5(1059); 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; $\sigma = 1.430$; $\epsilon_r = 49.65$ mho/m; $\rho = 1.000$ kg/m³

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

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

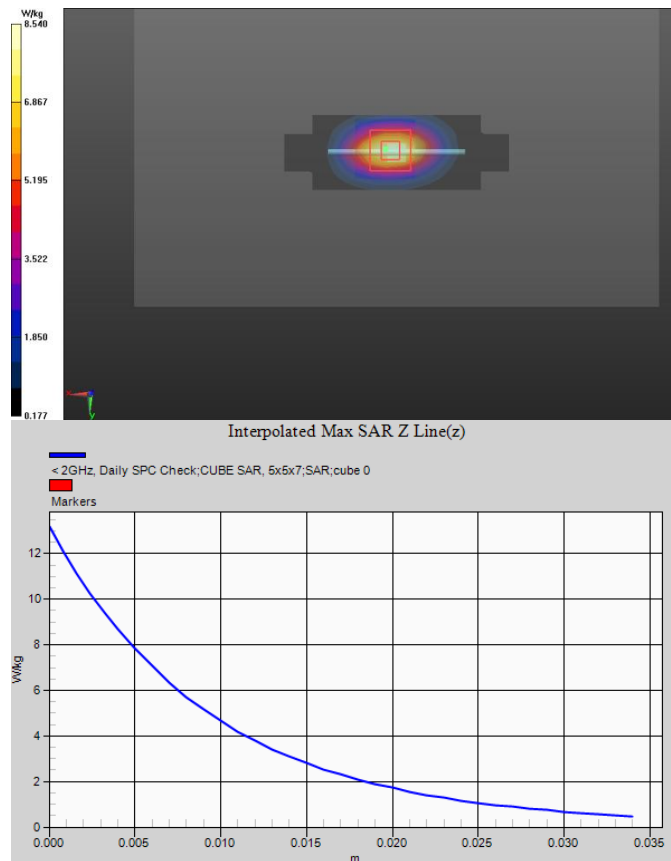
Fast SAR: SAR(1g) = 7.96 W/kg; SAR(10g) = 4.20 W/kg

< 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 = 79.008 V/m, Power Drift = -0.0058 dB

Averaged SAR: SAR(1g) = 7.84 W/kg; SAR(10g) = 4.19 W/kg



Daily SPC Check

Date/Time: 6/20/2013 11:10:34 AM

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

DUT Serial: D835V2 - SN:2d190

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 52.8.5(1059); 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; $\sigma = 1.440$; $\epsilon_r = 48.91$ mho/m; $\rho = 1.000$ kg/m³

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

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

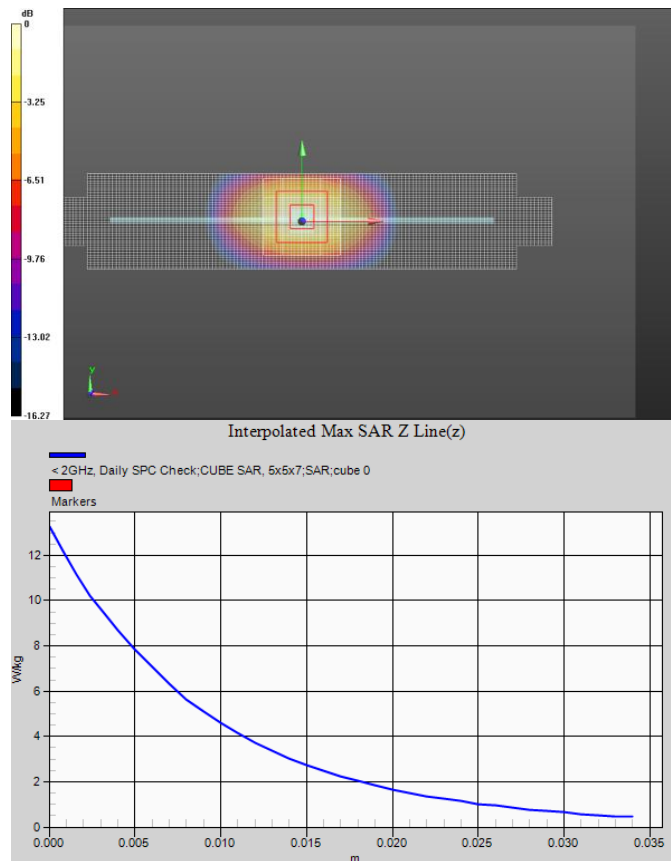
Fast SAR: SAR(1g) = 7.91 W/kg; SAR(10g) = 4.21 W/kg

< 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 = 79.338 V/m, Power Drift = 0.0041 dB

Averaged SAR: SAR(1g) = 7.80 W/kg; SAR(10g) = 4.15 W/kg



Daily SPC Check

Date/Time: 6/4/2013 8:48:04 AM

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

DUT Serial: D2450V2 - SN:877

DASY Configuration:

- Probe: EX3DV4 - SN3730; ConvF(6.86,6.86,6.86); Calibrated: 8/24/2012;
- 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 52.8.5(1059); SEMCAD X Version 14.6.10 (7164)

Communication System: CW for SAR Dipoles; Frequency: 2450 MHz; Duty Cycle: 1:1.000
 Medium Parameters used: $f=2450$ MHz; $\sigma = 1.989$; $\epsilon_r = 48.81$ mho/m; $\rho = 1.000$ kg/m³

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

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

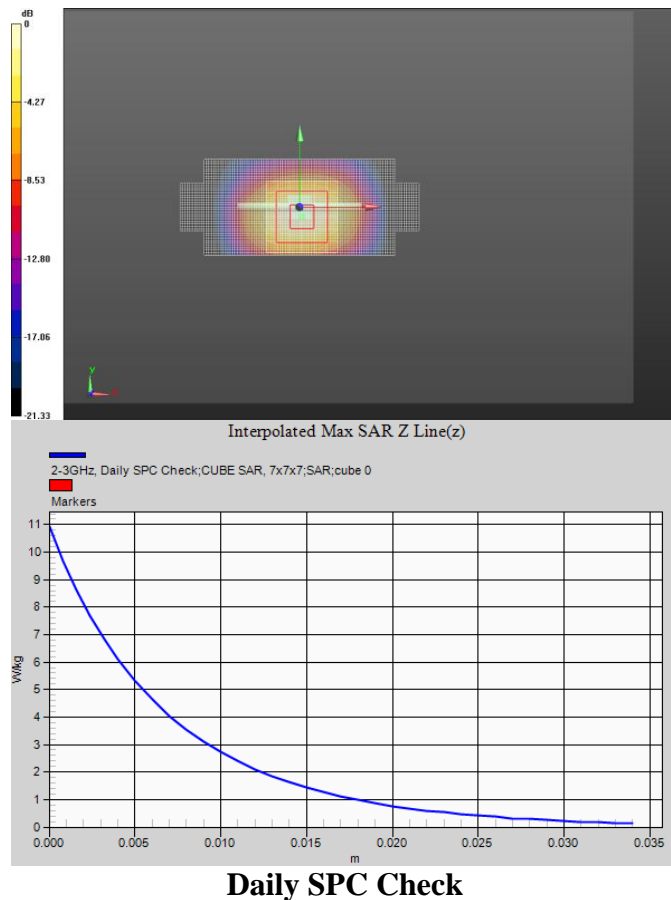
Fast SAR: SAR(1g) = 5.23 W/kg; SAR(10g) = 2.45 W/kg

2-3GHz, 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 = 52.409 V/m, Power Drift = -0.167 dB

Averaged SAR: SAR(1g) = 5.20 W/kg; SAR(10g) = 2.44 W/kg



Date/Time: 6/3/2013 10:55:47 AM

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

DUT Serial: D5GHzV2 - SN:1098

DASY Configuration:

- Probe: EX3DV4 - SN3730; ConvF(4.13,4.13,4.13); Calibrated: 8/24/2012;
- Sensor-Surface: 2 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 52.8.5(1059); SEMCAD X Version 14.6.10 (7164)

Communication System: CW for SAR Dipoles; Frequency: 5200 MHz; Duty Cycle: 1:1.000
 Medium Parameters used: $f=5200$ MHz; $\sigma = 5.302$; $\epsilon_r = 47.18$ mho/m; $\rho = 1.000$ kg/m³

5-6GHz, Daily SPC Check/fastSAR, Dipole Area Scan (221x41x1):

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

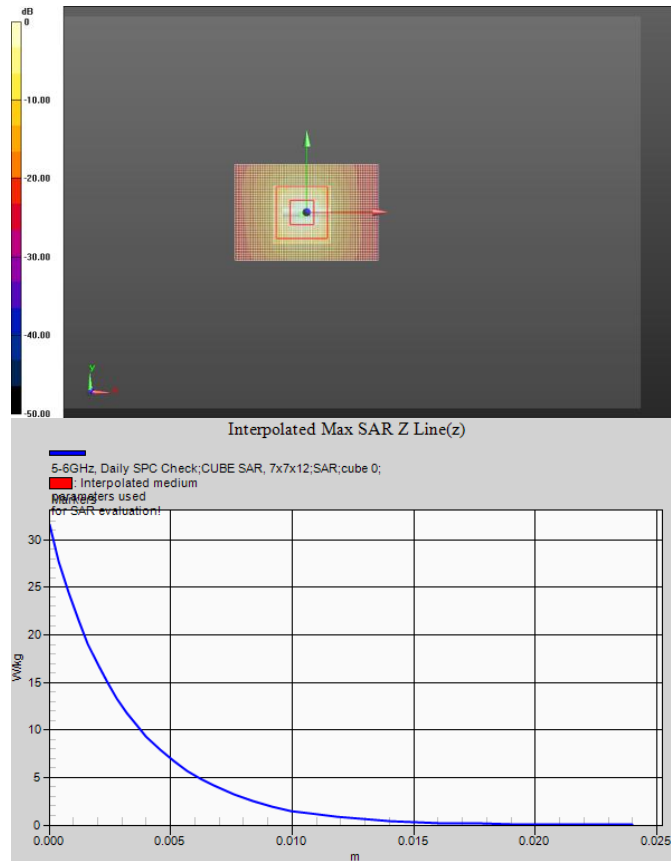
Fast SAR: SAR(1g) = 7.20 W/kg; SAR(10g) = 2.03 W/kg

5-6GHz, Daily SPC Check/CUBE SAR, 7x7x12 (31x31x31)/Cube 0:

Interpolated grid: $dx=0.800$ mm, $dy=0.800$ mm, $dz=0.400$ mm

Reference Value = 60.506 V/m, Power Drift = -0.021 dB

Averaged SAR: SAR(1g) = 7.98 W/kg; SAR(10g) = 2.25 W/kg



Daily SPC Check

Date/Time: 6/3/2013 11:56:06 AM

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

DUT Serial: D5GHzV2 - SN:1098

DASY Configuration:

- Probe: EX3DV4 - SN3730; ConvF(3.81,3.81,3.81); Calibrated: 8/24/2012;
- Sensor-Surface: 2 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 52.8.5(1059); SEMCAD X Version 14.6.10 (7164)

Communication System: CW for SAR Dipoles; Frequency: 5800 MHz; Duty Cycle: 1:1.000
 Medium Parameters used: $f=5800$ MHz; $\sigma = 6.208$; $\epsilon_r = 45.70$ mho/m; $\rho = 1.000$ kg/m³

5-6GHz, Daily SPC Check/fastSAR, Dipole Area Scan (221x41x1):

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

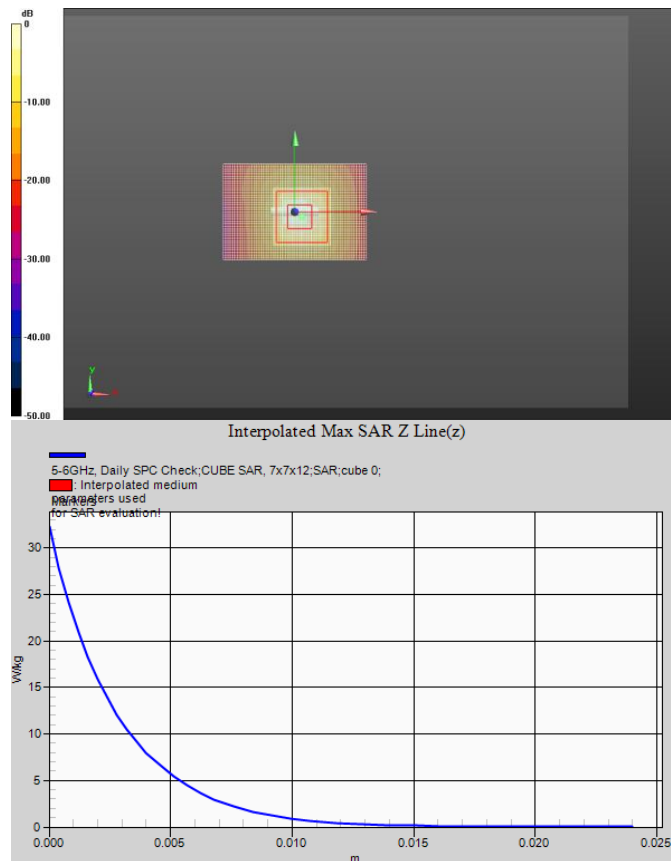
Fast SAR: SAR(1g) = 6.19 W/kg; SAR(10g) = 1.82 W/kg

5-6GHz, Daily SPC Check/CUBE SAR, 7x7x12 (31x31x31)/Cube 0:

Interpolated grid: $dx=0.800$ mm, $dy=0.800$ mm, $dz=0.400$ mm

Reference Value = 52.283 V/m, Power Drift = -0.126 dB

Averaged SAR: SAR(1g) = 7.18 W/kg; SAR(10g) = 2.01 W/kg



Date/Time: 5/9/2013 8:03:10 AM

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

DUT Serial: D835V2 - SN:423tr

DASY Configuration:

- Probe: ES3DV3 - SN3037; ConvF(6.16,6.16,6.16); Calibrated: 9/13/2012;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn703; Calibrated: 9/11/2012
- Phantom: R#4 Triple Flat Phantom 5.1C (Rev.4); Type: QD 000 P51 CA; Serial: n/a
- DASY52 52.8.5(1059); 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; $\sigma = 0.9965$; $\epsilon_r = 52.75$ mho/m; $\rho = 1.000$ kg/m³

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

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

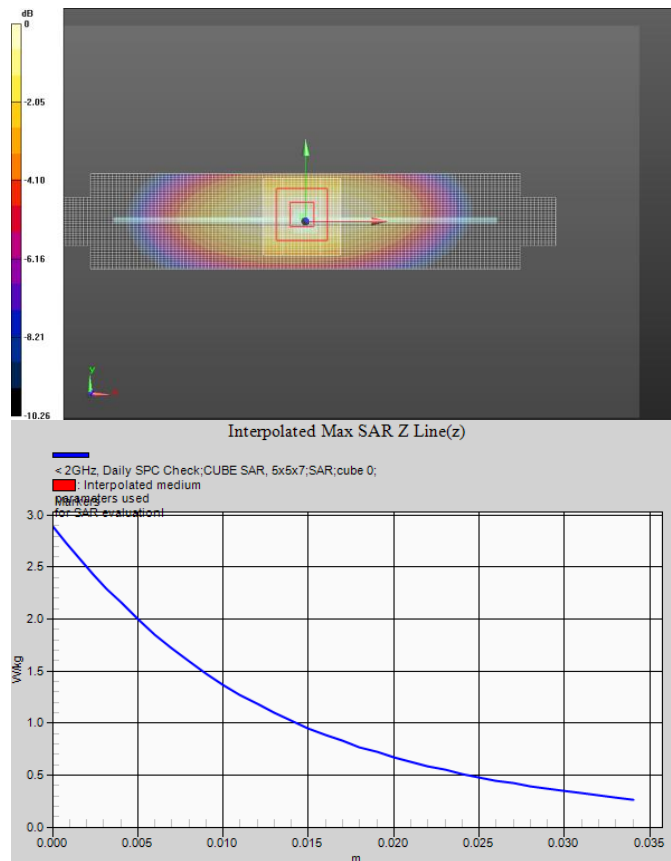
Fast SAR: SAR(1g) = 1.94 W/kg; SAR(10g) = 1.29 W/kg

< 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 = 47.757 V/m, Power Drift = -0.00417 dB

Averaged SAR: SAR(1g) = 1.94 W/kg; SAR(10g) = 1.29 W/kg



Date/Time: 5/10/2013 8:43:46 AM

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

DUT Serial: D835V2 - SN:423tr

DASY Configuration:

- Probe: ES3DV3 - SN3037; ConvF(6.16,6.16,6.16); Calibrated: 9/13/2012;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn703; Calibrated: 9/11/2012
- Phantom: R#4 Triple Flat Phantom 5.1C (Rev.4); Type: QD 000 P51 CA; Serial: n/a
- DASY52 52.8.5(1059); 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; $\sigma = 0.9989$; $\epsilon_r = 53.58$ mho/m; $\rho = 1.000$ kg/m³

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

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

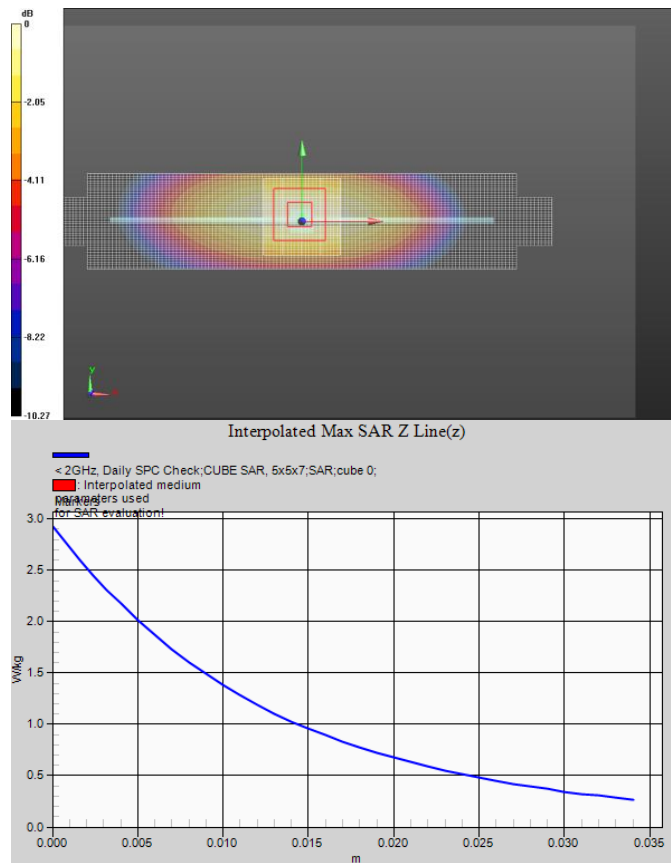
Fast SAR: SAR(1g) = 1.96 W/kg; SAR(10g) = 1.30 W/kg

< 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 = 47.900 V/m, Power Drift = -0.00939 dB

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



Daily SPC Check

Date/Time: 5/9/2013 7:25:15 AM

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

DUT Serial: D1800V2 - SN:2d191

DASY Configuration:

- Probe: ES3DV3 - SN3037; ConvF(4.83,4.83,4.83); Calibrated: 9/13/2012;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn703; Calibrated: 9/11/2012
- Phantom: R#4 Triple Flat Phantom 5.1C (Rev.4); Type: QD 000 P51 CA; Serial: n/a
- DASY52 52.8.5(1059); 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; $\sigma = 1.447$; $\epsilon_r = 50.64$ mho/m; $\rho = 1.000$ kg/m³

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

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

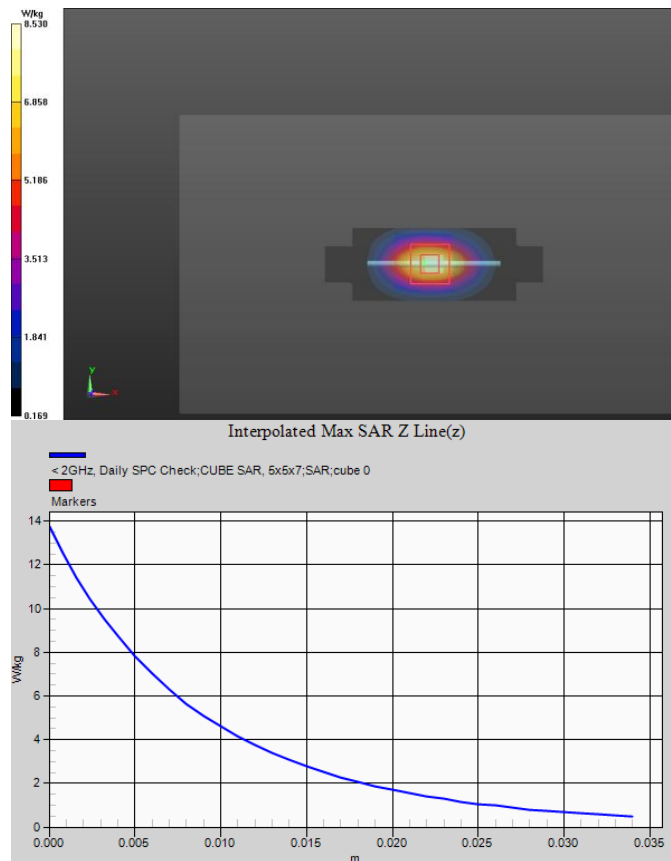
Fast SAR: SAR(1g) = 8.01 W/kg; SAR(10g) = 4.24 W/kg

< 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 = 79.406 V/m, Power Drift = 0.00977 dB

Averaged SAR: SAR(1g) = 7.91 W/kg; SAR(10g) = 4.20 W/kg



Date/Time: 5/12/2013 4:56:11 PM

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

DUT Serial: D1800V2 - SN:2d191

DASY Configuration:

- Probe: ES3DV3 - SN3037; ConvF(4.83,4.83,4.83); Calibrated: 9/13/2012;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn703; Calibrated: 9/11/2012
- Phantom: R#4 Triple Flat Phantom 5.1C (Rev.4); Type: QD 000 P51 CA; Serial: n/a
- DASY52 52.8.5(1059); 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; $\sigma = 1.416$; $\epsilon_r = 50.75$ mho/m; $\rho = 1.000$ kg/m³

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

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

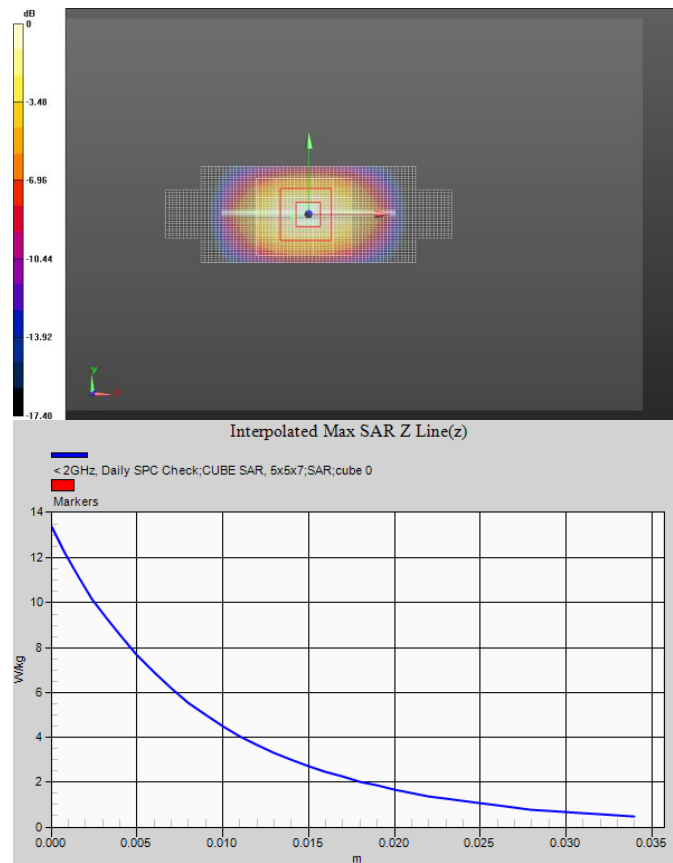
Fast SAR: SAR(1g) = 8.04 W/kg; SAR(10g) = 4.25 W/kg

< 2GHz, Daily SPC Check/CUBE SAR, 5x5x7 (21x26x36)/Cube 0:

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

Reference Value = 79.981 V/m, Power Drift = -0.022 dB

Averaged SAR: SAR(1g) = 7.87 W/kg; SAR(10g) = 4.18 W/kg



Daily SPC Check

Appendix 2

SAR Distribution Plots for Head-Adjacent Test Results

Date/Time: 5/15/2013 9:14:52 AM

Test Lab: Motorola Mobility

DUT Serial: LUME290023; FCC ID: IHDT56PE1;

Antenna: Internal; Battery: SNN5916B;

Test Configuration: Cheek

DASY Configuration:

- Probe: ES3DV3 - SN3180; ConvF(6.45,6.45,6.45); Calibrated: 2/11/2013;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn715; Calibrated: 1/28/2013
- Phantom: R#1 - Sugar SAM (extended range), Rev.2 (24-Feb-12); Type: SAM v4.0; Serial: TP-1156
- DASY52 52.8.5(1059); SEMCAD X Version 14.6.10 (7164)

Communication System: _LTE Band 13; Communication System Band: Band 13: 10 MHz BW;
 Frequency: 782.0 MHz; Duty Cycle: 1:1.000

Medium Parameters used: $f=782$ MHz; $\sigma = 0.8887$; $\epsilon_r = 42.47$ mho/m; $\rho = 1.000$ kg/m³

0.6-2GHz, Left Head Template/15mm, Area Scan (61x161x1):

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

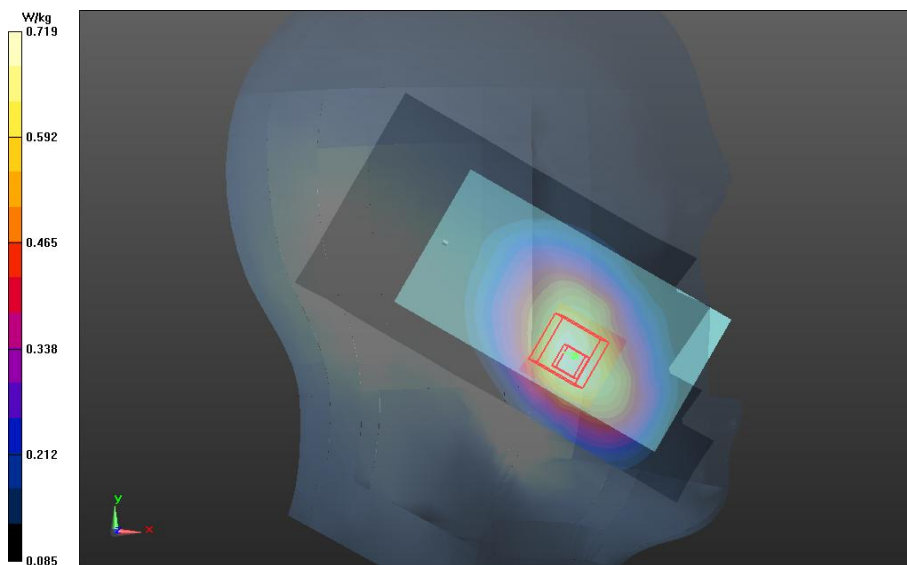
Fast SAR: SAR(1g) = 0.689 W/kg; SAR(10g) = 0.470 W/kg

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 = 28.242 V/m, Power Drift = 0.019 dB

Averaged SAR: SAR(1g) = 0.690 W/kg; SAR(10g) = 0.506 W/kg



0.6-2GHz, Left Head Template

Date/Time: 5/15/2013 1:31:23 AM

Test Lab: Motorola Mobility

DUT Serial: LUME290016; FCC ID: IHDT56PE1;

Antenna: Internal; Battery: SNN5916B;

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 52.8.5(1059); SEMCAD X Version 14.6.10 (7164)

Communication System: _LTE Band 04; Communication System Band: Band 4: 20 MHz BW;
Frequency: 1733 MHz; Duty Cycle: 1:1.000

Medium Parameters used: $f=1732.5$ MHz; $\sigma = 1.332$; $\epsilon_r = 37.26$ mho/m; $\rho = 1.000$ kg/m³

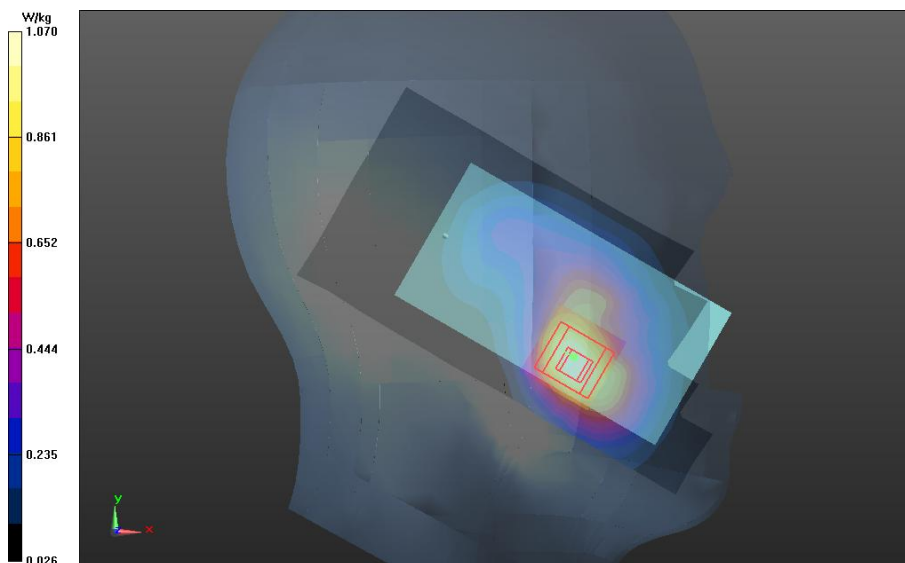
0.6-2GHz, Left Head Template/15mm, Area Scan (61x161x1):**Interpolated grid: dx=1.500 mm, dy=1.500 mm**

Fast SAR: SAR(1g) = 0.980 W/kg; SAR(10g) = 0.593 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 = 26.364 V/m, Power Drift = 0.058 dB

Averaged SAR: SAR(1g) = 1.00 W/kg; SAR(10g) = 0.630 W/kg

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

Date/Time: 6/10/2013 8:54:24 PM

Test Lab: Motorola Mobility

DUT Serial: LUME290020; FCC ID: IHDT56PE1;

Antenna: Internal; Battery: SNN5916B;

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 52.8.5(1059); SEMCAD X Version 14.6.10 (7164)

Communication System: _CDMA; Communication System Band: CDMA 800; Frequency: 824.7 MHz;
Duty Cycle: 1:1.000

Medium Parameters used: $f=824.7$ MHz; $\sigma = 0.9130$; $\epsilon_r = 41.15$ mho/m; $\rho = 1.000$ kg/m³

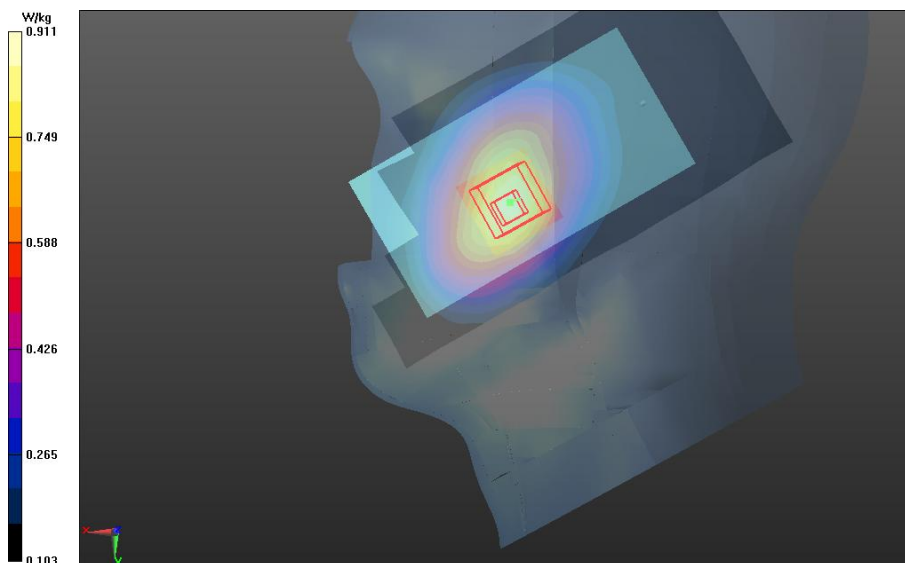
0.6-2GHz Right Head Template/15mm, Area Scan (61x161x1):**Interpolated grid: dx=1.500 mm, dy=1.500 mm**

Fast SAR: SAR(1g) = 0.795 W/kg; SAR(10g) = 0.544 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 = 30.540 V/m, Power Drift = 0.302 dB

Averaged SAR: SAR(1g) = 0.852 W/kg; SAR(10g) = 0.607 W/kg

**0.6-2GHz Right Head Template**

Date/Time: 5/9/2013 12:40:09 AM

Test Lab: Motorola Mobility

DUT Serial: LUME290020; FCC ID: IHDT56PE1;

Antenna: Internal; Battery: SNN5916B;

Test Configuration: Cheek

DASY Configuration:

- Probe: ES3DV3 - SN3037; ConvF(5.15,5.15,5.15); Calibrated: 9/13/2012;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn703; Calibrated: 9/11/2012
- Phantom: R#4 Glycol SAM (extended range), Rev.2 (24-Feb-12); Type: SAM v4.0; Serial: TP-1162
- DASY52 52.8.5(1059); SEMCAD X Version 14.6.10 (7164)

Communication System: _CDMA; Communication System Band: CDMA 1900; Frequency: 1880 MHz;
Duty Cycle: 1:1.000

Medium Parameters used: $f=1880$ MHz; $\sigma = 1.418$; $\epsilon_r = 37.87$ mho/m; $\rho = 1.000$ kg/m³

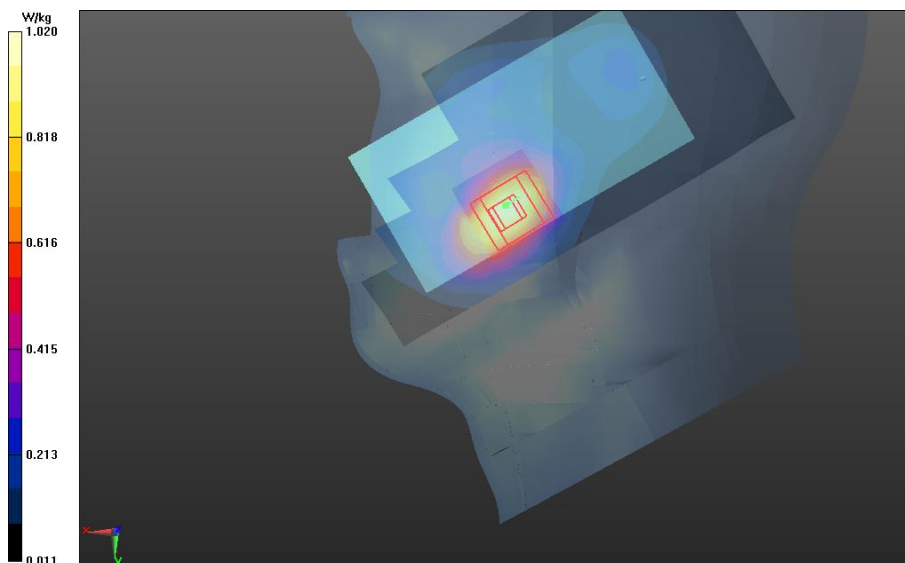
0.6-2GHz Right Head Template/15mm, Area Scan (61x161x1):**Interpolated grid: dx=1.500 mm, dy=1.500 mm**

Fast SAR: SAR(1g) = 0.915 W/kg; SAR(10g) = 0.504 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 = 24.476 V/m, Power Drift = -0.249 dB

Averaged SAR: SAR(1g) = 0.962 W/kg; SAR(10g) = 0.557 W/kg

**0.6-2GHz Right Head Template**

Date/Time: 5/9/2013 1:54:37 PM

Test Lab: Motorola Mobility

DUT Serial: LUME290014; FCC ID: IHDT56PE1;

Antenna: Internal; Battery: SNN5916B;

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 Sn656; Calibrated: 2/7/2013
- Phantom: R#1 - Sugar SAM (extended range), Rev.2 (24-Feb-12); Type: SAM v4.0; Serial: TP-1156
- DASY52 52.8.5(1059); SEMCAD X Version 14.6.10 (7164)

Communication System: _GPRS Class 12; Communication System Band: 850 MHz; Frequency: 824.2 MHz; Duty Cycle: 1:2.075

Medium Parameters used: $f=824.2$ MHz; $\sigma = 0.9320$; $\epsilon_r = 42.31$ mho/m; $\rho = 1.000$ kg/m³

0.6-2GHz Right Head Template/15mm, Area Scan (61x161x1):

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

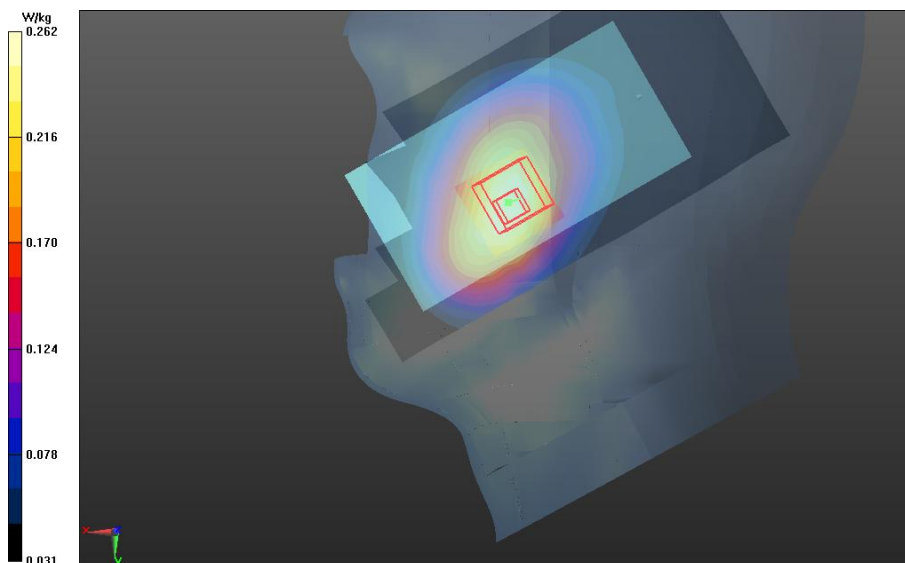
Fast SAR: SAR(1g) = 0.250 W/kg; SAR(10g) = 0.171 W/kg

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 = 17.159 V/m, Power Drift = -0.00779 dB

Averaged SAR: SAR(1g) = 0.248 W/kg; SAR(10g) = 0.184 W/kg



0.6-2GHz Right Head Template

Date/Time: 5/9/2013 10:32:56 PM

Test Lab: Motorola Mobility

DUT Serial: LUME290014; FCC ID: IHDT56PE1;

Antenna: Internal; Battery: SNN5916B;

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 Sn656; Calibrated: 2/7/2013
- Phantom: R#1 - Glycol SAM (extended range), Rev.2 (24-Feb-12); Type: SAM v4.0; Serial: TP-1319
- DASY52 52.8.5(1059); SEMCAD X Version 14.6.10 (7164)

Communication System: _GSM; Communication System Band: GSM 1900; Frequency: 1850 MHz; Duty Cycle: 1:8.300

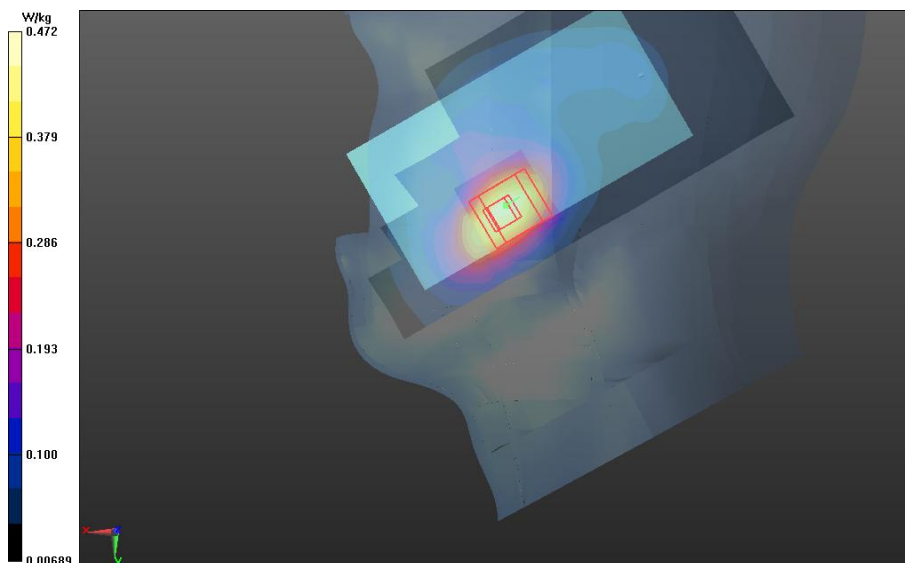
Medium Parameters used: $f=1850.2$ MHz; $\sigma = 1.377$; $\epsilon_r = 38.88$ mho/m; $\rho = 1.000$ kg/m³**0.6-2GHz Right Head Template/15mm, Area Scan (61x161x1):****Interpolated grid: dx=1.500 mm, dy=1.500 mm**

Fast SAR: SAR(1g) = 0.422 W/kg; SAR(10g) = 0.239 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 = 15.250 V/m, Power Drift = 0.172 dB

Averaged SAR: SAR(1g) = 0.439 W/kg; SAR(10g) = 0.255 W/kg

**0.6-2GHz Right Head Template**

Date/Time: 5/14/2013 12:28:37 PM

Test Lab: Motorola Mobility

DUT Serial: LUME290017; FCC ID: IHDT56PE1;

Antenna: Internal; Battery: SNN5916B;

Test Configuration: Cheek

DASY Configuration:

- Probe: ES3DV3 - SN3037; ConvF(6.23,6.23,6.23); Calibrated: 9/13/2012;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn703; Calibrated: 9/11/2012
- Phantom: R#4 Sugar SAM (extended range), Rev.2 (24-Feb-12); Type: SAM v4.0; Serial: TP-1132
- DASY52 52.8.5(1059); SEMCAD X Version 14.6.10 (7164)

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

Medium Parameters used: $f=836$ MHz; $\sigma = 0.9230$; $\epsilon_r = 40.40$ mho/m; $\rho = 1.000$ kg/m³

0.6-2GHz Right Head Template/15mm, Area Scan (61x161x1):

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

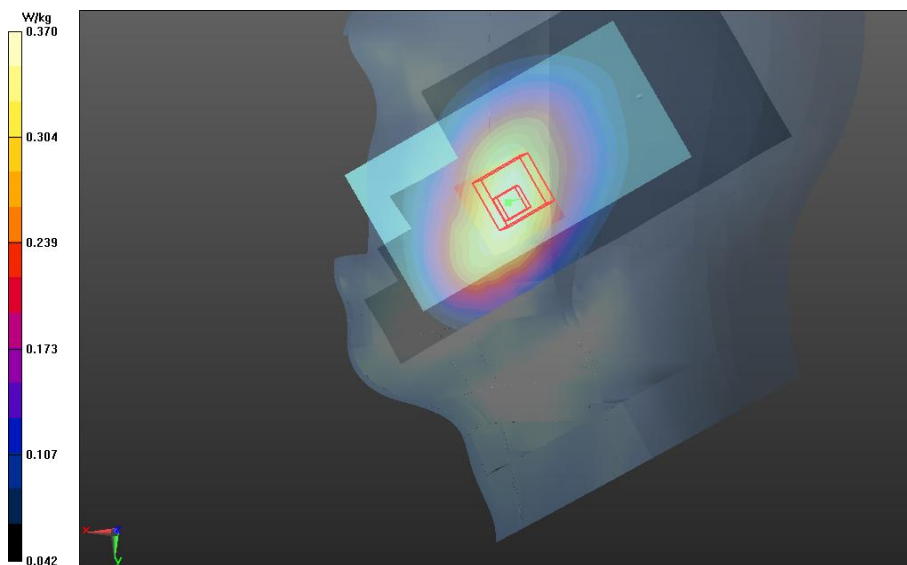
Fast SAR: SAR(1g) = 0.348 W/kg; SAR(10g) = 0.240 W/kg

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 = 20.347 V/m, Power Drift = 0.010 dB

Averaged SAR: SAR(1g) = 0.350 W/kg; SAR(10g) = 0.256 W/kg



0.6-2GHz Right Head Template

Date/Time: 5/22/2013 11:55:00 AM

Test Lab: Motorola Mobility

DUT Serial: LUME290017; FCC ID: IHDT56PE1;

Antenna: Internal; Battery: SNN5916B;

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 52.8.5(1059); SEMCAD X Version 14.6.10 (7164)

Communication System: _WCDMA; Communication System Band: WCDMA-1900, Band 2; Frequency: 1852 MHz; Duty Cycle: 1:1.000

Medium Parameters used: $f=1852.4$ MHz; $\sigma = 1.371$; $\epsilon_r = 36.40$ mho/m; $\rho = 1.000$ kg/m³

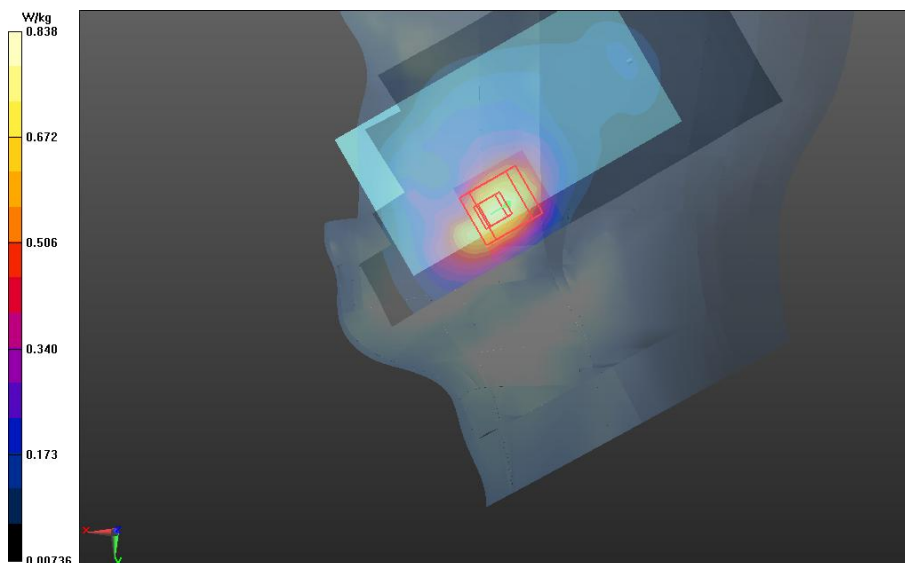
0.6-2GHz Right Head Template/15mm, Area Scan (61x161x1):**Interpolated grid: dx=1.500 mm, dy=1.500 mm**

Fast SAR: SAR(1g) = 0.738 W/kg; SAR(10g) = 0.419 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 = 16.792 V/m, Power Drift = -0.028 dB

Averaged SAR: SAR(1g) = 0.754 W/kg; SAR(10g) = 0.438 W/kg

**0.6-2GHz Right Head Template**

Date/Time: 6/4/2013 7:24:57 PM

Test Lab: Motorola Mobility

DUT Serial: LUME290020; FCC ID: IHDT56PE1;

Antenna: Internal; Battery: SNN5916B;

Test Configuration: Cheek

DASY Configuration:

- Probe: EX3DV4 - SN3730; ConvF(6.9,6.9,6.9); Calibrated: 8/24/2012;
- 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 52.8.5(1059); SEMCAD X Version 14.6.10 (7164)

Communication System: _Wi-Fi 2450MHz; Communication System Band: 2450MHz WIFI; Frequency: 2412 MHz; Duty Cycle: 1:1.000

Medium Parameters used: $f=2412$ MHz; $\sigma = 1.744$; $\epsilon_r = 35.80$ mho/m; $\rho = 1.000$ kg/m³

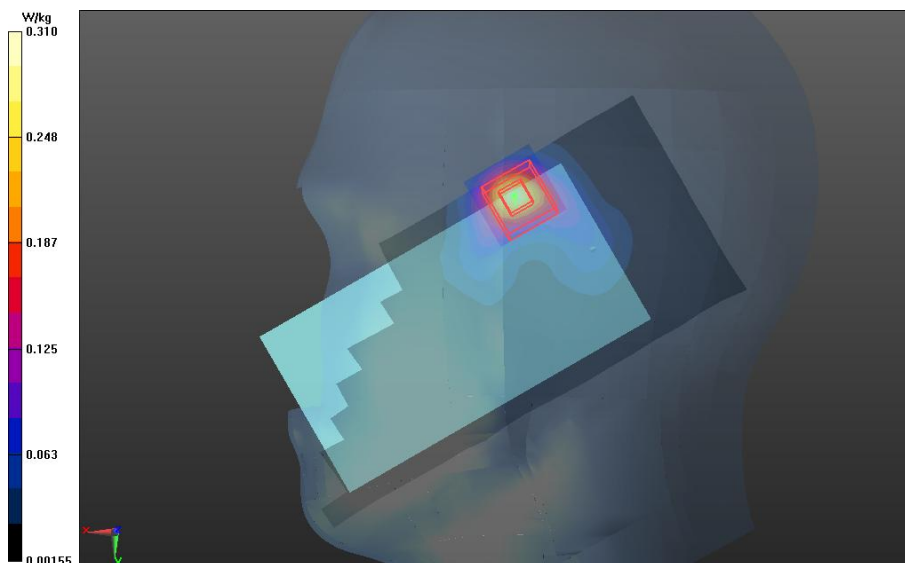
2-3GHz Right Head Template/10mm, Area Scan (91x241x1):**Interpolated grid: dx=1.000 mm, dy=1.000 mm**

Fast SAR: SAR(1g) = 0.251 W/kg; SAR(10g) = 0.117 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 = 5.343 V/m, Power Drift = 0.263 dB

Averaged SAR: SAR(1g) = 0.263 W/kg; SAR(10g) = 0.114 W/kg

**2-3GHz Right Head Template**

Date/Time: 6/5/2013 1:23:17 AM

Test Lab: Motorola Mobility

DUT Serial: LUME290020; FCC ID: IHDT56PE1;

Antenna: Internal; Battery: SNN5916B;

Test Configuration: Cheek

DASY Configuration:

- Probe: EX3DV4 - SN3730; ConvF(4.9,4.9,4.9); Calibrated: 8/24/2012;
- Sensor-Surface: 2 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn784; Calibrated: 3/6/2013
- Phantom: R#3, 5GHz SAM, REV.2 (13nov12); Type: SAM; Serial: TP-1106
- DASY52 52.8.5(1059); SEMCAD X Version 14.6.10 (7164)

Communication System: _WIFI 5-6GHz; Communication System Band: 5210 MHz Sub-Band;
 Frequency: 5180 MHz; Duty Cycle: 1:1.000

Medium Parameters used: $f=5180$ MHz; $\sigma = 4.516$; $\epsilon_r = 34.14$ mho/m; $\rho = 1.000$ kg/m³

Right Head Template/Area Scan - Normal (10mm) (91x211x1):

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

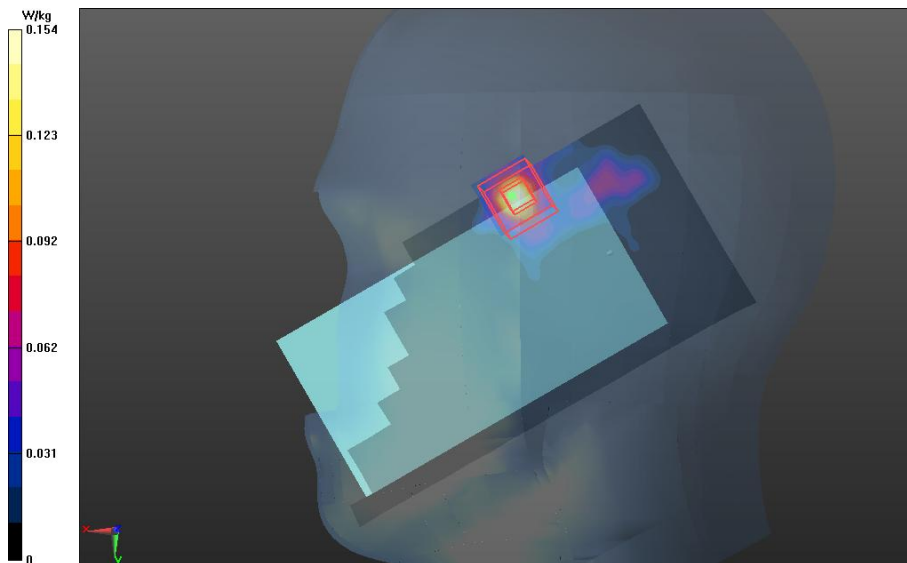
Fast SAR: SAR(1g) = 0.0828 W/kg; SAR(10g) = 0.0261 W/kg

Right Head Template/7x7x12 Zoom Scan (5-6GHz) (31x31x31)/Cube 0:

Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm

Reference Value = 3.887 V/m, Power Drift = 0.059 dB

Averaged SAR: SAR(1g) = 0.0786 W/kg; SAR(10g) = 0.0239 W/kg



Right Head Template

Date/Time: 6/5/2013 3:32:21 AM

Test Lab: Motorola Mobility

DUT Serial: LUME290020; FCC ID: IHDT56PE1;

Antenna: Internal; Battery: SNN5916B;

Test Configuration: Cheek

DASY Configuration:

- Probe: EX3DV4 - SN3730; ConvF(4.24,4.24,4.24); Calibrated: 8/24/2012;
- Sensor-Surface: 2 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn784; Calibrated: 3/6/2013
- Phantom: R#3, 5GHz SAM, REV.2 (13nov12); Type: SAM; Serial: TP-1106
- DASY52 52.8.5(1059); SEMCAD X Version 14.6.10 (7164)

Communication System: _WIFI 5-6GHz; Communication System Band: 5785 MHz Sub-Band;
Frequency: 5745 MHz; Duty Cycle: 1:1.000

Medium Parameters used: $f=5745$ MHz; $\sigma = 5.134$; $\epsilon_r = 32.92$ mho/m; $\rho = 1.000$ kg/m³

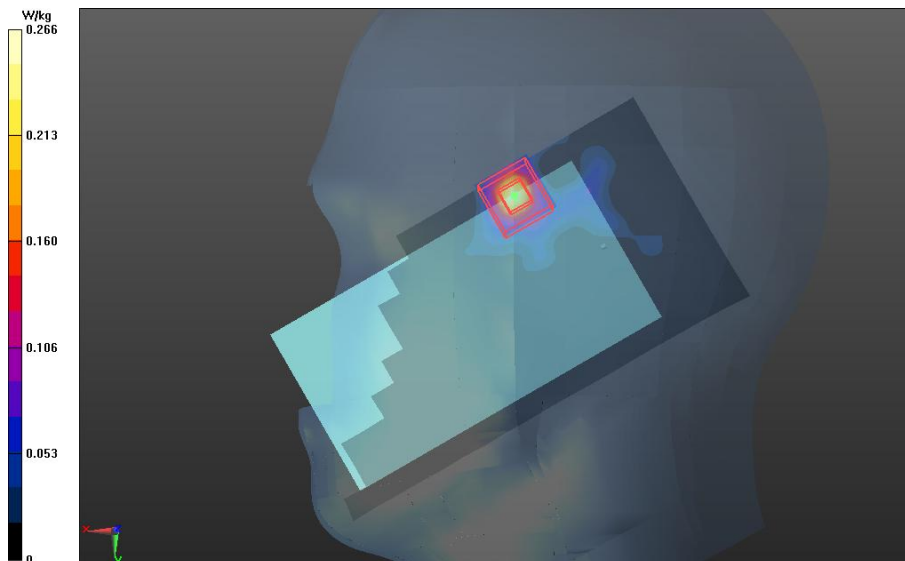
Right Head Template/Area Scan - Normal (10mm) (91x211x1):**Interpolated grid: dx=1.000 mm, dy=1.000 mm**

Fast SAR: SAR(1g) = 0.125 W/kg; SAR(10g) = 0.0383 W/kg

Right Head Template/7x7x12 Zoom Scan (5-6GHz) (31x31x31)/Cube 0:**Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm**

Reference Value = 2.543 V/m, Power Drift = 0.224 dB

Averaged SAR: SAR(1g) = 0.122 W/kg; SAR(10g) = 0.0364 W/kg

**Right Head Template**

Appendix 3

SAR Distribution Plots for Body-Worn Accessory Test Results

Date/Time: 5/15/2013 6:56:32 PM

Test Lab: Motorola Mobility

DUT Serial: LUME290023; FCC ID: IHDT56PE1;

Antenna: Internal; Battery: SNN5916B;

Test Configuration: Body Worn, Front of Phone 25 mm from Phantom

DASY Configuration:

- Probe: ES3DV3 - SN3180; ConvF(6.14,6.14,6.14); Calibrated: 2/11/2013;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn715; Calibrated: 1/28/2013
- Phantom: R#-1, Triple Flat Phantom 5.1C (Rev.4); Type: QD 000 P51 CA; Serial: n/a
- DASY52 52.8.5(1059); SEMCAD X Version 14.6.10 (7164)

Communication System: _LTE Band 13; Communication System Band: Band 13: 10 MHz BW;
Frequency: 782.0 MHz; Duty Cycle: 1:1.000

Medium Parameters used: $f=782$ MHz; $\sigma = 0.9419$; $\epsilon_r = 53.21$ mho/m; $\rho = 1.000$ kg/m³

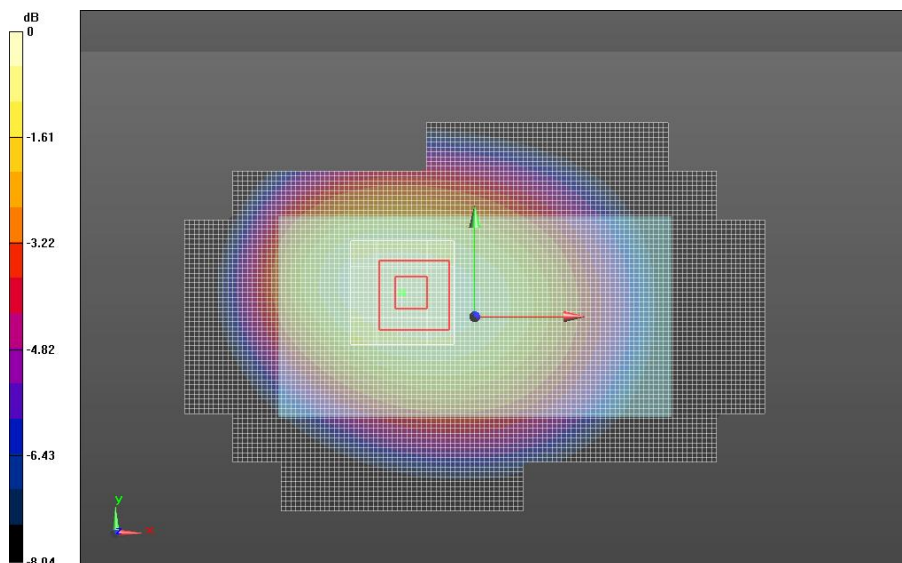
0.6-2GHz Triple Flat Phone Template/Area Scan (15mm), not for EDGES (181x101x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm

Fast SAR: SAR(1g) = 0.262 W/kg; SAR(10g) = 0.184 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 = 17.157 V/m, Power Drift = -0.081 dB

Averaged SAR: SAR(1g) = 0.262 W/kg; SAR(10g) = 0.197 W/kg



0.6-2GHz Triple Flat Phone Template

Date/Time: 5/15/2013 1:00:26 AM

Test Lab: Motorola Mobility

DUT Serial: LUME290023; FCC ID: IHDT56PE1;

Antenna: Internal; Battery: SNN5916B;

Test Configuration: Body Worn, Front of Phone 25 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 Sn715; Calibrated: 1/28/2013
- Phantom: R#-1, Triple Flat Phantom 5.1C (Rev.4); Type: QD 000 P51 CA; Serial: n/a
- DASY52 52.8.5(1059); SEMCAD X Version 14.6.10 (7164)

Communication System: _LTE Band 04; Communication System Band: Band 4: 20 MHz BW;
Frequency: 1733 MHz; Duty Cycle: 1:1.000

Medium Parameters used: $f=1732.5$ MHz; $\sigma = 1.472$; $\epsilon_r = 49.90$ mho/m; $\rho = 1.000$ kg/m³

0.6-2GHz Triple Flat Phone Template/Area Scan (10mm) (261x141x1):

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

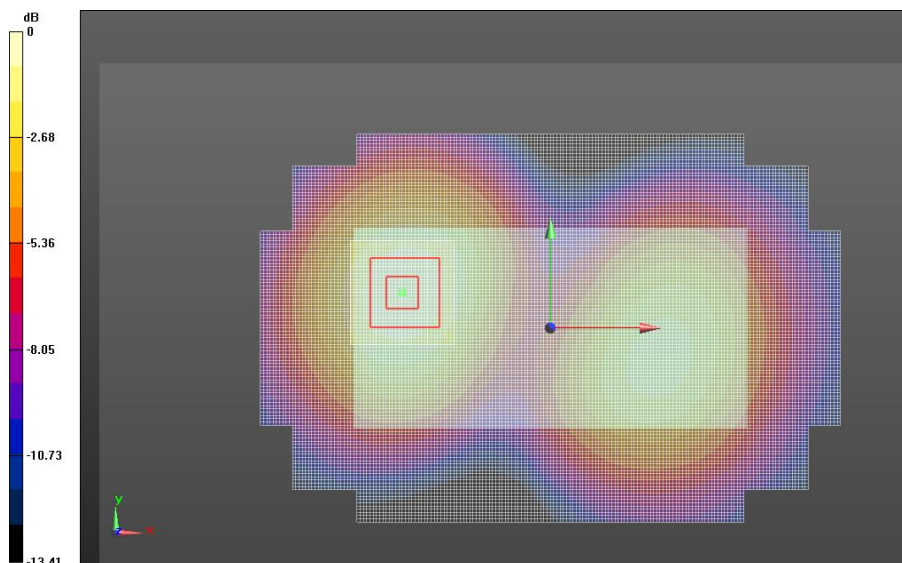
Fast SAR: SAR(1g) = 0.281 W/kg; SAR(10g) = 0.176 W/kg

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 = 14.030 V/m, Power Drift = -0.041 dB

Averaged SAR: SAR(1g) = 0.287 W/kg; SAR(10g) = 0.185 W/kg



0.6-2GHz Triple Flat Phone Template

Date/Time: 5/9/2013 11:20:51 AM

Test Lab: Motorola Mobility

DUT Serial: LUME290020; FCC ID: IHDT56PE1;

Antenna: Internal; Battery: SNN5916B;

Test Configuration: Body Worn, Front of Phone 25 mm from Phantom

DASY Configuration:

- Probe: ES3DV3 - SN3037; ConvF(6.16,6.16,6.16); Calibrated: 9/13/2012;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn703; Calibrated: 9/11/2012
- Phantom: R#4 Triple Flat Phantom 5.1C (Rev.4); Type: QD 000 P51 CA; Serial: n/a
- DASY52 52.8.5(1059); SEMCAD X Version 14.6.10 (7164)

Communication System: _CDMA; Communication System Band: CDMA 800; Frequency: 824.7 MHz; Duty Cycle: 1:1.000

Medium Parameters used: $f=824.7$ MHz; $\sigma = 0.9810$; $\epsilon_r = 52.78$ mho/m; $\rho = 1.000$ kg/m³

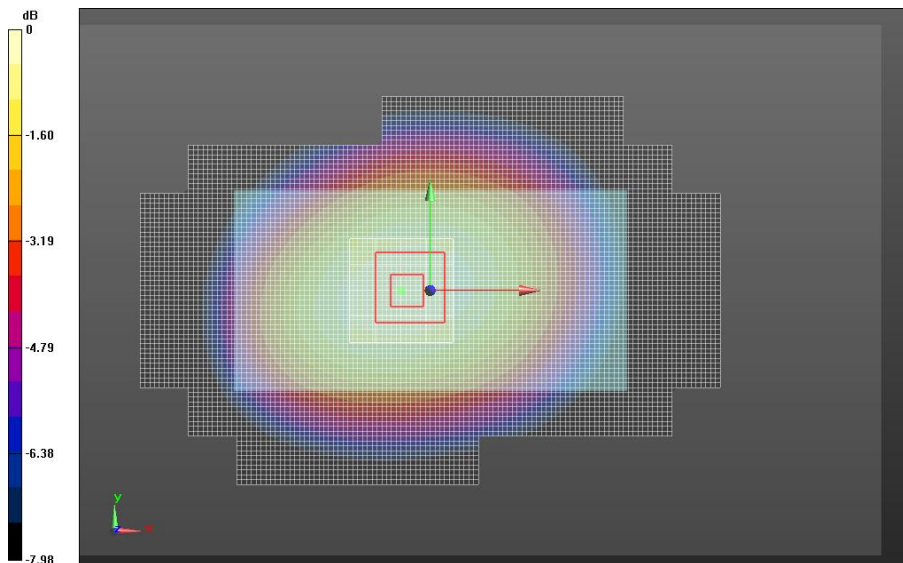
0.6-2GHz Triple Flat Phone Template/Area Scan (15mm), not for EDGES (181x101x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm

Fast SAR: SAR(1g) = 0.507 W/kg; SAR(10g) = 0.356 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 = 23.478 V/m, Power Drift = -0.00494 dB

Averaged SAR: SAR(1g) = 0.502 W/kg; SAR(10g) = 0.377 W/kg



0.6-2GHz Triple Flat Phone Template

Date/Time: 5/9/2013 12:05:18 PM

Test Lab: Motorola Mobility

DUT Serial: LUME290020; FCC ID: IHDT56PE1;

Antenna: Internal; Battery: SNN5916B;

Test Configuration: Body Worn, Back of Phone 25 mm from Phantom

DASY Configuration:

- Probe: ES3DV3 - SN3037; ConvF(4.83,4.83,4.83); Calibrated: 9/13/2012;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn703; Calibrated: 9/11/2012
- Phantom: R#4 Triple Flat Phantom 5.1C (Rev.4); Type: QD 000 P51 CA; Serial: n/a
- DASY52 52.8.5(1059); SEMCAD X Version 14.6.10 (7164)

Communication System: _CDMA; Communication System Band: CDMA 1900; Frequency: 1880 MHz;
Duty Cycle: 1:1.000

Medium Parameters used: f=1880 MHz; $\sigma = 1.497$; $\epsilon_r = 50.77$ mho/m; $\rho = 1.000$ kg/m³

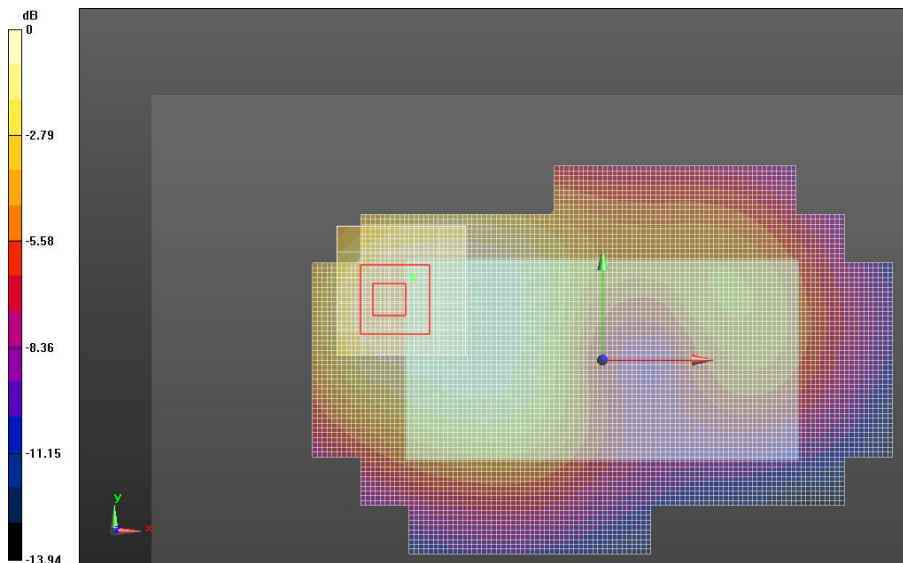
0.6-2GHz Triple Flat Phone Template/Area Scan (15mm), not for EDGES (181x101x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm

Fast SAR: SAR(1g) = 0.153 W/kg; SAR(10g) = 0.0969 W/kg

0.6-2GHz Triple Flat Phone Template/5x5x7 Zoom Scan (0.6-2GHz) (26x26x36)/Cube 0:
Interpolated grid: dx=1.600 mm, dy=1.600 mm, dz=1.000 mm

Reference Value = 10.402 V/m, Power Drift = -0.039 dB

Averaged SAR: SAR(1g) = 0.156 W/kg; SAR(10g) = 0.101 W/kg



0.6-2GHz Triple Flat Phone Template

Date/Time: 5/9/2013 6:01:55 PM

Test Lab: Motorola Mobility

DUT Serial: LUME290014; FCC ID: IHDT56PE1;

Antenna: Internal; Battery: SNN5916B;

Test Configuration: Body Worn, Back of Phone 25 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 Sn656; Calibrated: 2/7/2013
- Phantom: R#-1, Triple Flat Phantom 5.1C (Rev.4); Type: QD 000 P51 CA; Serial: n/a
- DASY52 52.8.5(1059); SEMCAD X Version 14.6.10 (7164)

Communication System: _GSM; Communication System Band: GSM 850; Frequency: 824.2 MHz; Duty Cycle: 1:8.300

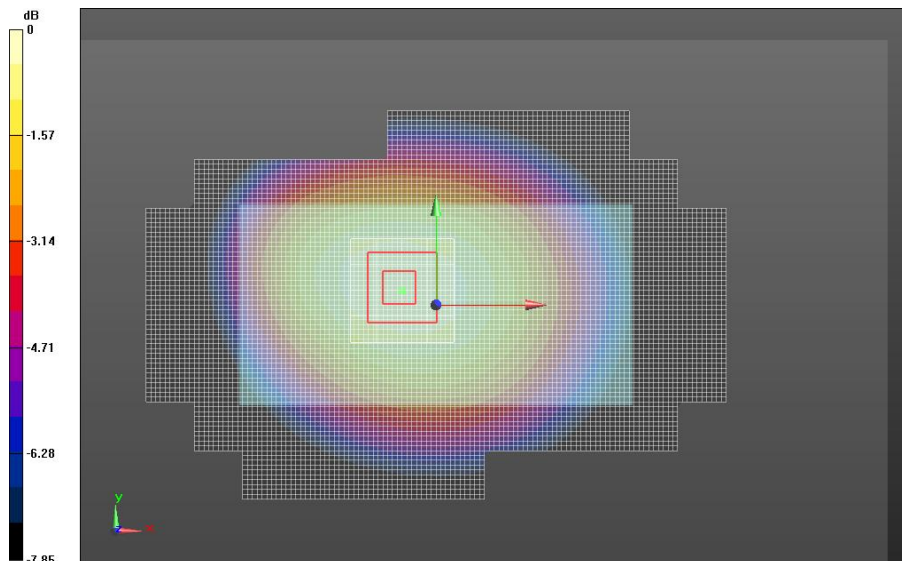
Medium Parameters used: $f=824.2$ MHz; $\sigma = 0.9801$; $\epsilon_r = 52.95$ mho/m; $\rho = 1.000$ kg/m³**0.6-2GHz Triple Flat Phone Template/Area Scan (15mm), not for EDGES (181x101x1):****Interpolated grid: dx=1.500 mm, dy=1.500 mm**

Fast SAR: SAR(1g) = 0.193 W/kg; SAR(10g) = 0.136 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 = 14.524 V/m, Power Drift = 0.00839 dB

Averaged SAR: SAR(1g) = 0.195 W/kg; SAR(10g) = 0.147 W/kg

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

Date/Time: 5/10/2013 12:06:13 AM

Test Lab: Motorola Mobility

DUT Serial: LUME290014; FCC ID: IHDT56PE1;

Antenna: Internal; Battery: SNN5916B;

Test Configuration: Body Worn, Front of Phone 25 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 Sn656; Calibrated: 2/7/2013
- Phantom: R#-1, Triple Flat Phantom 5.1C (Rev.4); Type: QD 000 P51 CA; Serial: n/a
- DASY52 52.8.5(1059); SEMCAD X Version 14.6.10 (7164)

Communication System: _GSM; Communication System Band: GSM 1900; Frequency: 1850 MHz; Duty Cycle: 1:8.300

Medium Parameters used: $f=1850.2$ MHz; $\sigma = 1.464$; $\epsilon_r = 51.59$ mho/m; $\rho = 1.000$ kg/m³

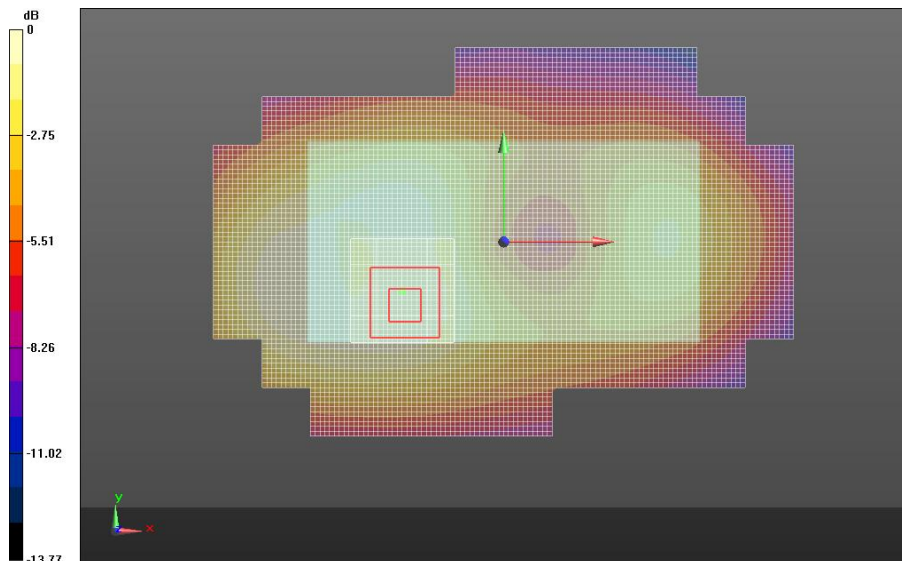
0.6-2GHz Triple Flat Phone Template/Area Scan (15mm), not for EDGES (181x101x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm

Fast SAR: SAR(1g) = 0.0636 W/kg; SAR(10g) = 0.0392 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 = 6.516 V/m, Power Drift = -0.042 dB

Averaged SAR: SAR(1g) = 0.0636 W/kg; SAR(10g) = 0.0400 W/kg



0.6-2GHz Triple Flat Phone Template

Date/Time: 5/10/2013 7:25:33 PM

Test Lab: Motorola Mobility

DUT Serial: LUME290017; FCC ID: IHDT56PE1;

Antenna: Internal; Battery: SNN5916B;

Test Configuration: Body Worn, Front of Phone 25 mm from Phantom

DASY Configuration:

- Probe: ES3DV3 - SN3037; ConvF(6.16,6.16,6.16); Calibrated: 9/13/2012;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn703; Calibrated: 9/11/2012
- Phantom: R#4 Triple Flat Phantom 5.1C (Rev.4); Type: QD 000 P51 CA; Serial: n/a
- DASY52 52.8.5(1059); SEMCAD X Version 14.6.10 (7164)

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

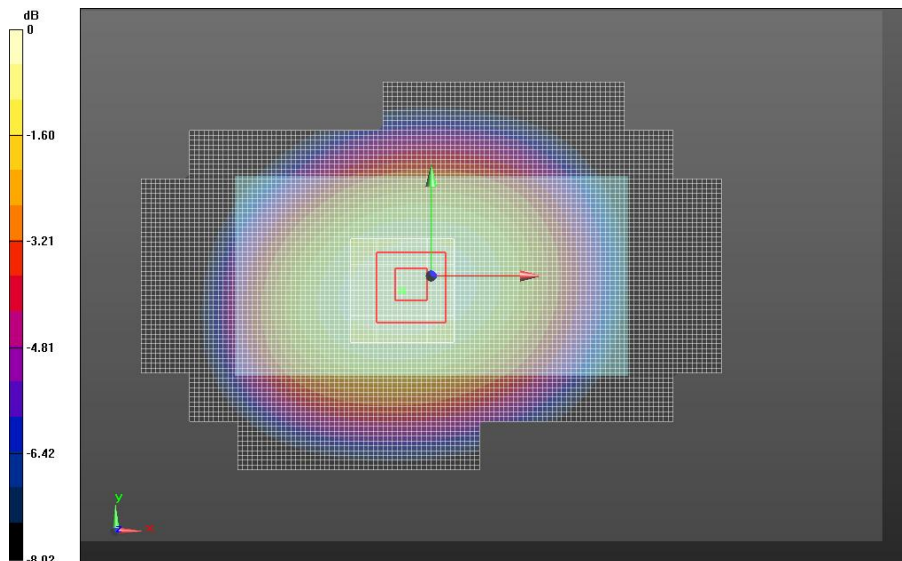
Medium Parameters used: $f=836$ MHz; $\sigma = 0.9999$; $\epsilon_r = 53.58$ mho/m; $\rho = 1.000$ kg/m³**0.6-2GHz Triple Flat Phone Template/Area Scan (15mm), not for EDGES (181x101x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm**

Fast SAR: SAR(1g) = 0.276 W/kg; SAR(10g) = 0.193 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 = 17.039 V/m, Power Drift = -0.100 dB

Averaged SAR: SAR(1g) = 0.270 W/kg; SAR(10g) = 0.203 W/kg

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

Date/Time: 5/12/2013 5:56:49 PM

Test Lab: Motorola Mobility

DUT Serial: LUME290017; FCC ID: IHDT56PE1;

Antenna: Internal; Battery: SNN5916B;

Test Configuration: Body Worn, Front of Phone 25 mm from Phantom

DASY Configuration:

- Probe: ES3DV3 - SN3037; ConvF(4.83,4.83,4.83); Calibrated: 9/13/2012;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn703; Calibrated: 9/11/2012
- Phantom: R#4 Triple Flat Phantom 5.1C (Rev.4); Type: QD 000 P51 CA; Serial: n/a
- DASY52 52.8.5(1059); SEMCAD X Version 14.6.10 (7164)

Communication System: _WCDMA; Communication System Band: WCDMA-1900, Band 2; Frequency: 1852 MHz; Duty Cycle: 1:1.000

Medium Parameters used: $f=1852.4$ MHz; $\sigma = 1.492$; $\epsilon_r = 50.96$ mho/m; $\rho = 1.000$ kg/m³

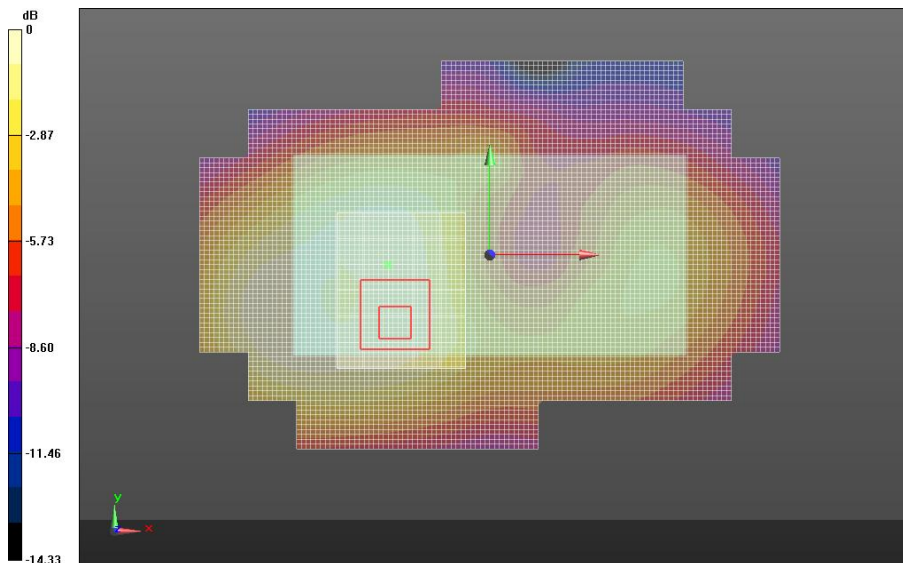
0.6-2GHz Triple Flat Phone Template/Area Scan (15mm), not for EDGES (181x101x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm

Fast SAR: SAR(1g) = 0.103 W/kg; SAR(10g) = 0.0644 W/kg

0.6-2GHz Triple Flat Phone Template/5x5x7 Zoom Scan (0.6-2GHz) (26x31x36)/Cube 0:
Interpolated grid: dx=1.600 mm, dy=1.600 mm, dz=1.000 mm

Reference Value = 8.591 V/m, Power Drift = -0.241 dB

Averaged SAR: SAR(1g) = 0.106 W/kg; SAR(10g) = 0.0669 W/kg



0.6-2GHz Triple Flat Phone Template

Date/Time: 6/4/2013 1:40:21 PM

Test Lab: Motorola Mobility

DUT Serial: LUME290020; FCC ID: IHDT56PE1;

Antenna: Internal; Battery: SNN5916B;

Test Configuration: Body Worn, Back of Phone 25 mm from Phantom

DASY Configuration:

- Probe: EX3DV4 - SN3730; ConvF(6.86,6.86,6.86); Calibrated: 8/24/2012;
- 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 52.8.5(1059); SEMCAD X Version 14.6.10 (7164)

Communication System: _Wi-Fi 2450MHz; Communication System Band: 2450MHz WIFI; Frequency: 2412 MHz; Duty Cycle: 1:1.000

Medium Parameters used: $f=2412$ MHz; $\sigma = 1.920$; $\epsilon_r = 48.53$ mho/m; $\rho = 1.000$ kg/m³

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

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

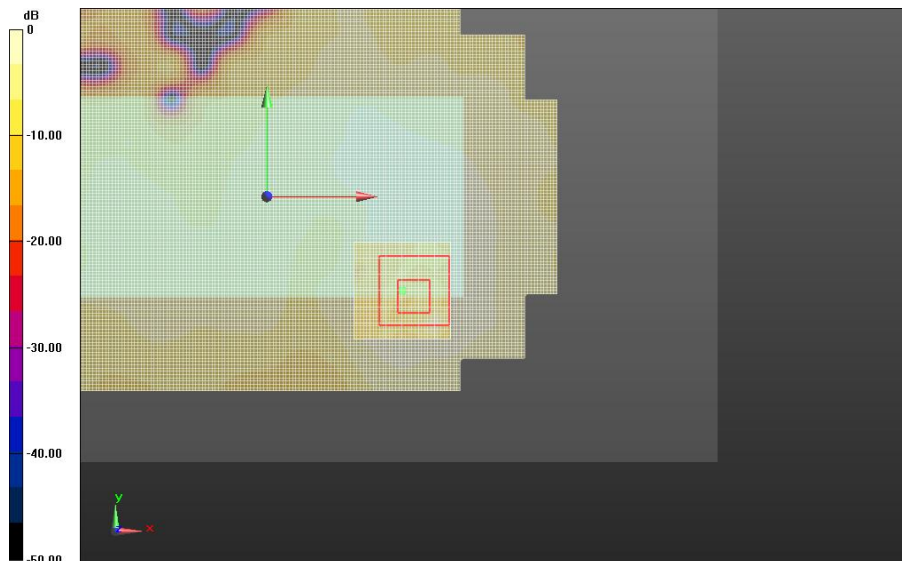
Fast SAR: SAR(1g) = 0.0227 W/kg; SAR(10g) = 0.0128 W/kg

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 = 3.552 V/m, Power Drift = 0.191 dB

Averaged SAR: SAR(1g) = 0.0226 W/kg; SAR(10g) = 0.0129 W/kg



2-3GHz Triple Flat Phone Template

Date/Time: 6/3/2013 2:33:15 PM

Test Lab: Motorola Mobility

DUT Serial: LUME290020; FCC ID: IHDT56PE1;

Antenna: Internal; Battery: SNN5916B;

Test Configuration: Body Worn, Back of Phone 25 mm from Phantom

DASY Configuration:

- Probe: EX3DV4 - SN3730; ConvF(4.13,4.13,4.13); Calibrated: 8/24/2012;
- Sensor-Surface: 2 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 52.8.5(1059); SEMCAD X Version 14.6.10 (7164)

Communication System: _WIFI 5-6GHz; Communication System Band: 5210 MHz Sub-Band;
Frequency: 5180 MHz; Duty Cycle: 1:1.000

Medium Parameters used: $f=5180$ MHz; $\sigma = 5.274$; $\epsilon_r = 47.23$ mho/m; $\rho = 1.000$ kg/m³

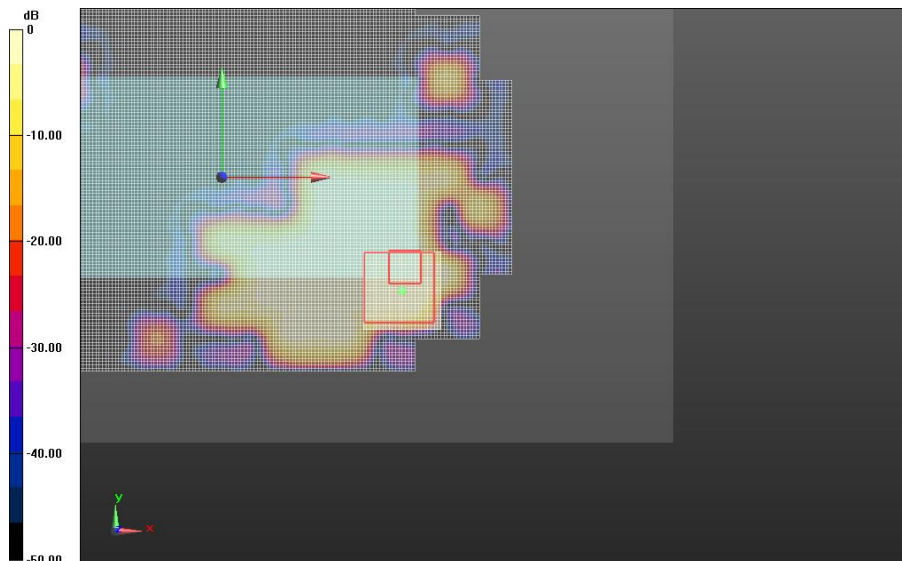
TRIPLE Flat Phone Against Flat Section/Area Scan - Body (10mm) (281x161x1):**Interpolated grid: dx=1.000 mm, dy=1.000 mm**

Fast SAR: SAR(1g) = 0.0406 W/kg; SAR(10g) = 0.0170 W/kg

TRIPLE Flat Phone Against Flat Section/7x7x12 Zoom Scan (5-6GHz) (31x31x31)/Cube 0:**Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm**

Reference Value = 3.729 V/m, Power Drift = -0.206 dB

Averaged SAR: SAR(1g) = 0.0289 W/kg; SAR(10g) = 0.0118 W/kg

**TRIPLE Flat Phone Against Flat Section**

Date/Time: 6/3/2013 11:47:35 PM

Test Lab: Motorola Mobility

DUT Serial: LUME290020; FCC ID: IHDT56PE1;

Antenna: Internal; Battery: SNN5916B;

Test Configuration: Body Worn, Back of Phone 25 mm from Phantom

DASY Configuration:

- Probe: EX3DV4 - SN3730; ConvF(3.81,3.81,3.81); Calibrated: 8/24/2012;
- Sensor-Surface: 2 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 52.8.5(1059); SEMCAD X Version 14.6.10 (7164)

Communication System: _WIFI 5-6GHz; Communication System Band: 5785 MHz Sub-Band;
 Frequency: 5745 MHz; Duty Cycle: 1:1.000

Medium Parameters used: f=5745 MHz; $\sigma = 6.120$; $\epsilon_r = 45.82$ mho/m; $\rho = 1.000$ kg/m³

TRIPLE Flat Phone Against Flat Section/Area Scan - Body (10mm) (281x161x1):

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

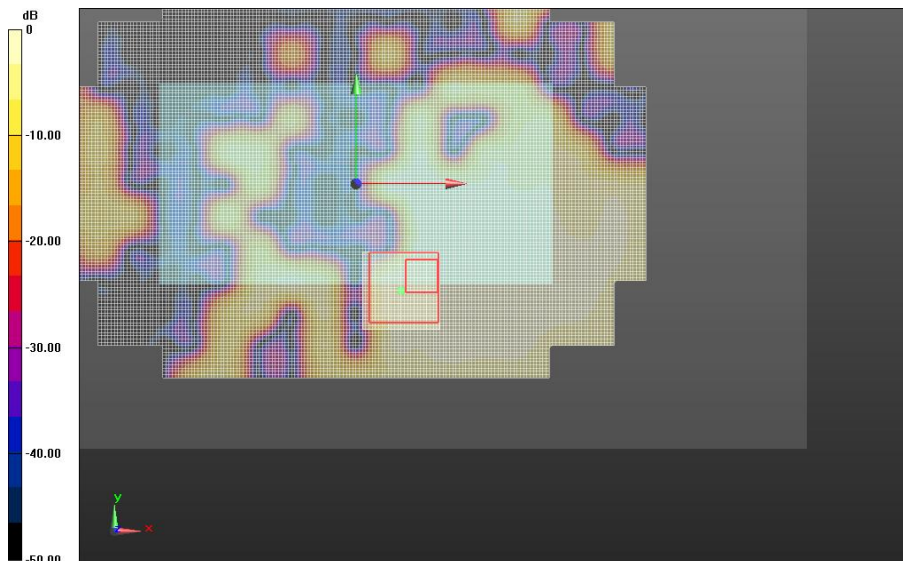
Fast SAR: SAR(1g) = 0.0458 W/kg; SAR(10g) = 0.0192 W/kg

TRIPLE Flat Phone Against Flat Section/7x7x12 Zoom Scan (5-6GHz) (31x31x31)/Cube 0:

Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm

Reference Value = 3.665 V/m, Power Drift = -0.526 dB

Averaged SAR: SAR(1g) = 0.0314 W/kg; SAR(10g) = 0.0128 W/kg



TRIPLE Flat Phone Against Flat Section

Appendix 4

SAR Distribution Plots for Mobile Hotspot Test Results

Date/Time: 5/16/2013 2:01:40 AM

Test Lab: Motorola Mobility

DUT Serial: LUME290023; FCC ID: IHDT56PE1;

Antenna: Internal; Battery: SNN5916B;

Test Configuration: Front of Phone 10 mm from Phantom

DASY Configuration:

- Probe: ES3DV3 - SN3180; ConvF(6.14,6.14,6.14); Calibrated: 2/11/2013;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn715; Calibrated: 1/28/2013
- Phantom: R#-1, Triple Flat Phantom 5.1C (Rev.4); Type: QD 000 P51 CA; Serial: n/a
- DASY52 52.8.5(1059); SEMCAD X Version 14.6.10 (7164)

Communication System: _LTE Band 13; Communication System Band: Band 13: 10 MHz BW;
Frequency: 782.0 MHz; Duty Cycle: 1:1.000

Medium Parameters used: $f=782$ MHz; $\sigma = 0.9419$; $\epsilon_r = 53.21$ mho/m; $\rho = 1.000$ kg/m³

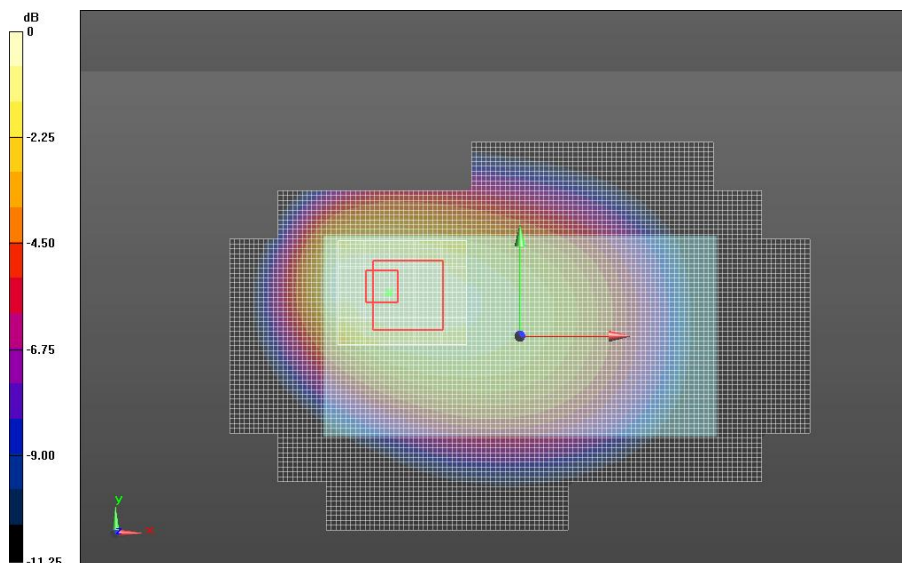
0.6-2GHz Triple Flat Phone Template/Area Scan (15mm), not for EDGES (181x101x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm

Fast SAR: SAR(1g) = 0.711 W/kg; SAR(10g) = 0.485 W/kg

0.6-2GHz Triple Flat Phone Template/5x5x7 Zoom Scan (0.6-2GHz) (26x21x36)/Cube 0:
Interpolated grid: dx=1.600 mm, dy=1.600 mm, dz=1.000 mm

Reference Value = 25.343 V/m, Power Drift = -0.049 dB

Averaged SAR: SAR(1g) = 0.693 W/kg; SAR(10g) = 0.500 W/kg



0.6-2GHz Triple Flat Phone Template

Date/Time: 6/18/2013 3:36:18 PM

Test Lab: Motorola Mobility

DUT Serial: LUME290023; FCC ID: IHDT56PE1;

Antenna: Internal; Battery: SNN5916B;

Test Configuration: Front 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 52.8.5(1059); SEMCAD X Version 14.6.10 (7164)

Communication System: _LTE Band 04; Communication System Band: Band 4: 20 MHz BW;
Frequency: 1733 MHz; Duty Cycle: 1:1.000

Medium Parameters used: $f=1732.5$ MHz; $\sigma = 1.465$; $\epsilon_r = 49.88$ mho/m; $\rho = 1.000$ kg/m³

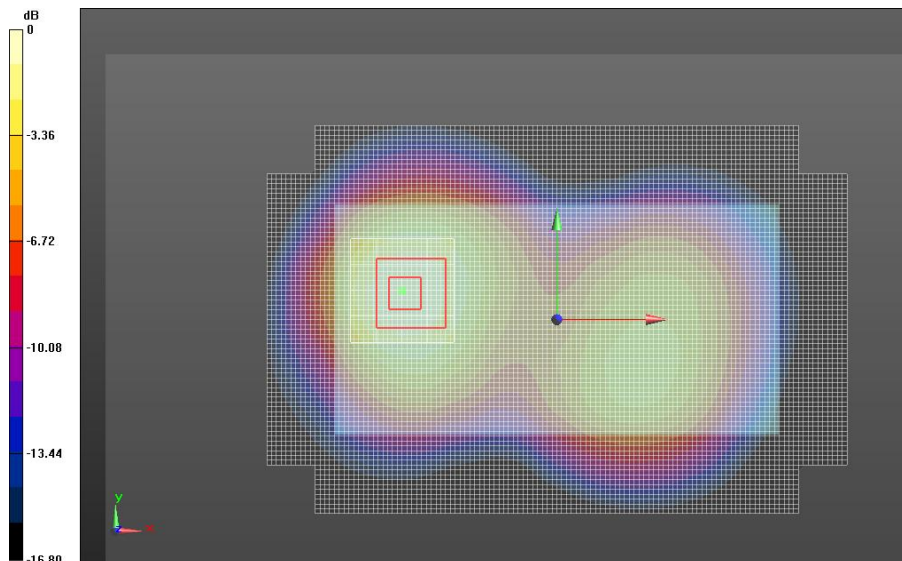
**0.6-2GHz Triple Flat Phone Template/Area Scan (15mm), not for EDGES (181x101x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm**

Fast SAR: SAR(1g) = 1.16 W/kg; SAR(10g) = 0.695 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 = 28.181 V/m, Power Drift = 0.039 dB

Averaged SAR: SAR(1g) = 1.12 W/kg; SAR(10g) = 0.702 W/kg



0.6-2GHz Triple Flat Phone Template

Date/Time: 5/9/2013 10:49:19 PM

Test Lab: Motorola Mobility

DUT Serial: LUME290020; FCC ID: IHDT56PE1;

Antenna: Internal; Battery: SNN5916B;

Test Configuration: Front of Phone 10 mm from Phantom

DASY Configuration:

- Probe: ES3DV3 - SN3037; ConvF(6.16,6.16,6.16); Calibrated: 9/13/2012;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn703; Calibrated: 9/11/2012
- Phantom: R#4 Triple Flat Phantom 5.1C (Rev.4); Type: QD 000 P51 CA; Serial: n/a
- DASY52 52.8.5(1059); SEMCAD X Version 14.6.10 (7164)

Communication System: _CDMA; Communication System Band: CDMA 800; Frequency: 824.7 MHz;
Duty Cycle: 1:1.000

Medium Parameters used: $f=824.7$ MHz; $\sigma = 0.9810$; $\epsilon_r = 52.78$ mho/m; $\rho = 1.000$ kg/m³

0.6-2GHz Triple Flat Phone Template/Area Scan (15mm), not for EDGES (181x101x1):

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

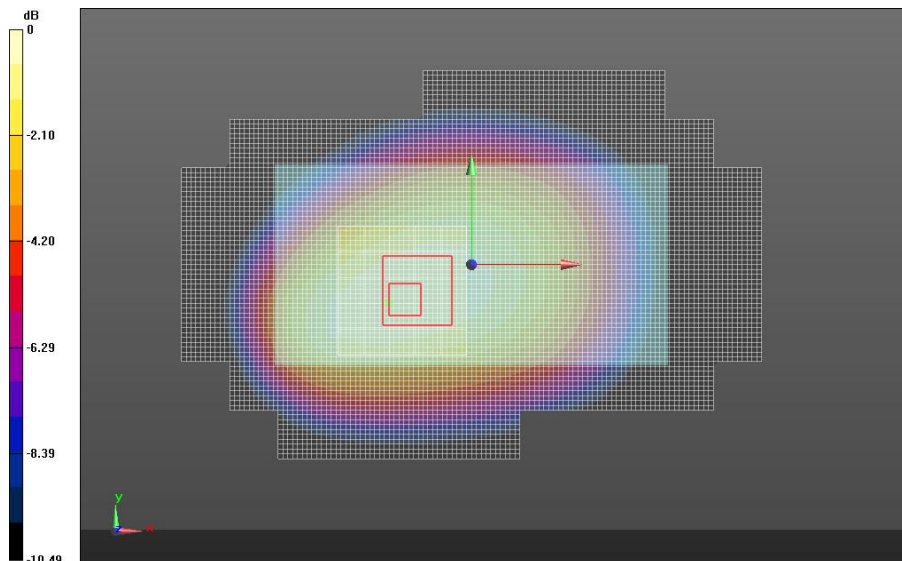
Fast SAR: SAR(1g) = 0.965 W/kg; SAR(10g) = 0.672 W/kg

0.6-2GHz Triple Flat Phone Template/5x5x7 Zoom Scan (0.6-2GHz) (26x26x36)/Cube 0:

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

Reference Value = 31.655 V/m, Power Drift = 0.271 dB

Averaged SAR: SAR(1g) = 0.966 W/kg; SAR(10g) = 0.719 W/kg



0.6-2GHz Triple Flat Phone Template

Date/Time: 6/20/2013 5:18:49 PM

Test Lab: Motorola Mobility

DUT Serial: LUME290020; FCC ID: IHDT56PE1;

Antenna: Internal; Battery: SNN5916B;

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 52.8.5(1059); SEMCAD X Version 14.6.10 (7164)

Communication System: _CDMA; Communication System Band: CDMA 1900; Frequency: 1909 MHz;
Duty Cycle: 1:1.000

Medium Parameters used: $f=1908.75$ MHz; $\sigma = 1.569$; $\epsilon_r = 48.52$ mho/m; $\rho = 1.000$ kg/m³

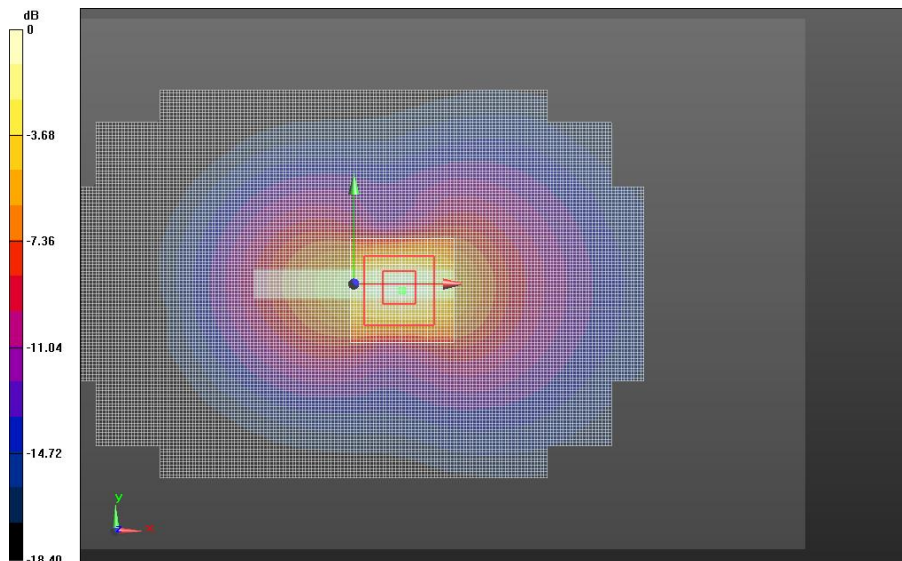
0.6-2GHz Triple Flat Phone Template/Area Scan (10mm) (261x141x1):**Interpolated grid: dx=1.000 mm, dy=1.000 mm**

Fast SAR: SAR(1g) = 0.984 W/kg; SAR(10g) = 0.473 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 = 28.475 V/m, Power Drift = -0.202 dB

Averaged SAR: SAR(1g) = 0.995 W/kg; SAR(10g) = 0.489 W/kg

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

Date/Time: 5/9/2013 7:24:04 PM

Test Lab: Motorola Mobility

DUT Serial: LUME290014; FCC ID: IHDT56PE1;

Antenna: Internal; Battery: SNN5916B;

Test Configuration: Right Edge 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 Sn656; Calibrated: 2/7/2013
- Phantom: R#-1, Triple Flat Phantom 5.1C (Rev.4); Type: QD 000 P51 CA; Serial: n/a
- DASY52 52.8.5(1059); SEMCAD X Version 14.6.10 (7164)

Communication System: _GPRS Class 12; Communication System Band: 850 MHz; Frequency: 836.6 MHz; Duty Cycle: 1:2.075

Medium Parameters used: $f=836.6$ MHz; $\sigma = 0.9975$; $\epsilon_r = 52.92$ mho/m; $\rho = 1.000$ kg/m³

0.6-2GHz Triple Flat Phone Template/Area Scan (10mm) (261x141x1):

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

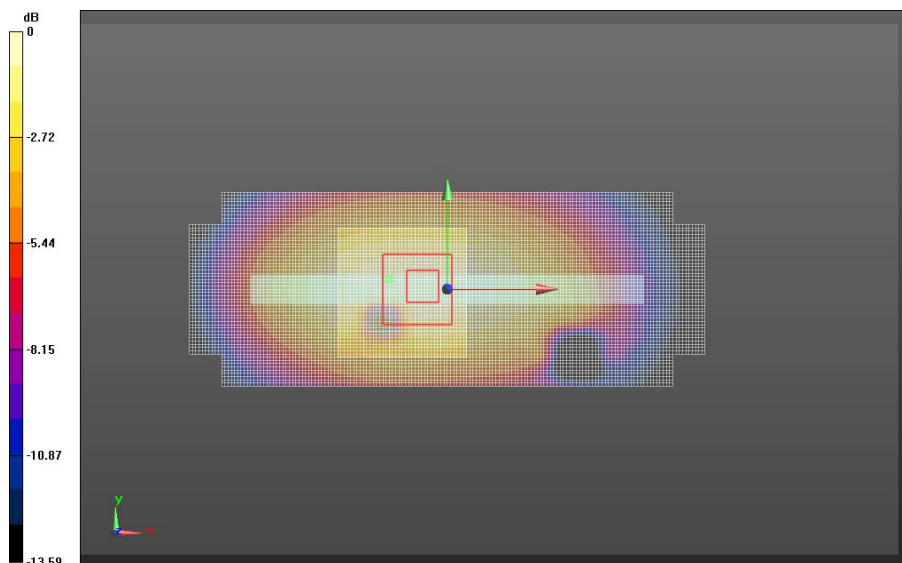
Fast SAR: SAR(1g) = 0.513 W/kg; SAR(10g) = 0.335 W/kg

0.6-2GHz Triple Flat Phone Template/5x5x7 Zoom Scan (0.6-2GHz) (26x26x36)/Cube 0:

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

Reference Value = 23.533 V/m, Power Drift = -0.044 dB

Averaged SAR: SAR(1g) = 0.497 W/kg; SAR(10g) = 0.344 W/kg



0.6-2GHz Triple Flat Phone Template

Date/Time: 5/10/2013 2:00:22 AM

Test Lab: Motorola Mobility

DUT Serial: LUME290014; FCC ID: IHDT56PE1;

Antenna: Internal; Battery: SNN5916B;

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 Sn656; Calibrated: 2/7/2013
- Phantom: R#-1, Triple Flat Phantom 5.1C (Rev.4); Type: QD 000 P51 CA; Serial: n/a
- DASY52 52.8.5(1059); SEMCAD X Version 14.6.10 (7164)

Communication System: _GPRS Class 12; Communication System Band: 1900 MHz; Frequency: 1880 MHz; Duty Cycle: 1:2.075

Medium Parameters used: $f=1880$ MHz; $\sigma = 1.497$; $\epsilon_r = 50.77$ mho/m; $\rho = 1.000$ kg/m³

0.6-2GHz Triple Flat Phone Template/Area Scan (10mm) (261x141x1):

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

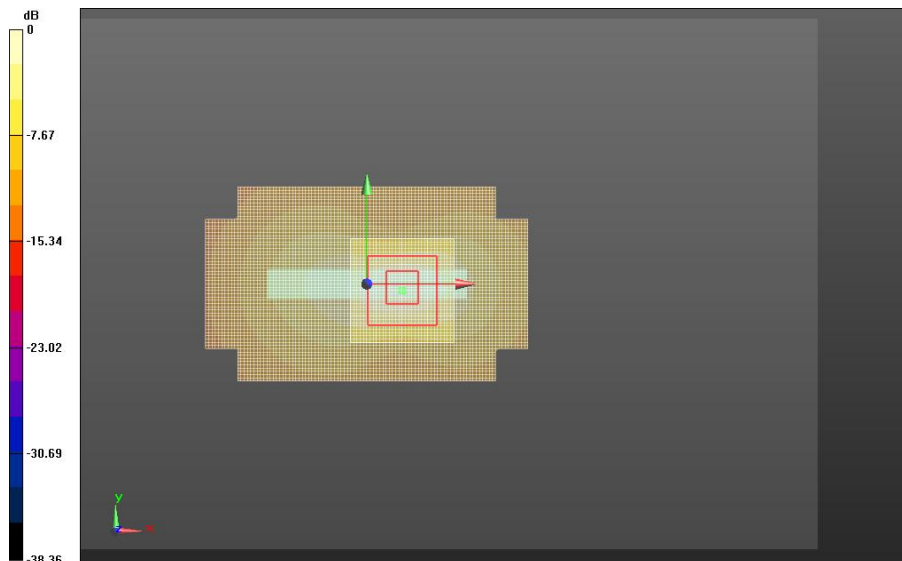
Fast SAR: SAR(1g) = 0.415 W/kg; SAR(10g) = 0.202 W/kg

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 = 18.310 V/m, Power Drift = 0.019 dB

Averaged SAR: SAR(1g) = 0.433 W/kg; SAR(10g) = 0.216 W/kg



0.6-2GHz Triple Flat Phone Template

Date/Time: 5/10/2013 8:10:26 PM

Test Lab: Motorola Mobility

DUT Serial: LUME290017; FCC ID: IHDT56PE1;

Antenna: Internal; Battery: SNN5916B;

Test Configuration: Front of Phone 10 mm from Phantom

DASY Configuration:

- Probe: ES3DV3 - SN3037; ConvF(6.16,6.16,6.16); Calibrated: 9/13/2012;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn703; Calibrated: 9/11/2012
- Phantom: R#4 Triple Flat Phantom 5.1C (Rev.4); Type: QD 000 P51 CA; Serial: n/a
- DASY52 52.8.5(1059); SEMCAD X Version 14.6.10 (7164)

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

Medium Parameters used: $f=836$ MHz; $\sigma = 0.9999$; $\epsilon_r = 53.58$ mho/m; $\rho = 1.000$ kg/m³

0.6-2GHz Triple Flat Phone Template/Area Scan (15mm), not for EDGES (181x101x1):

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

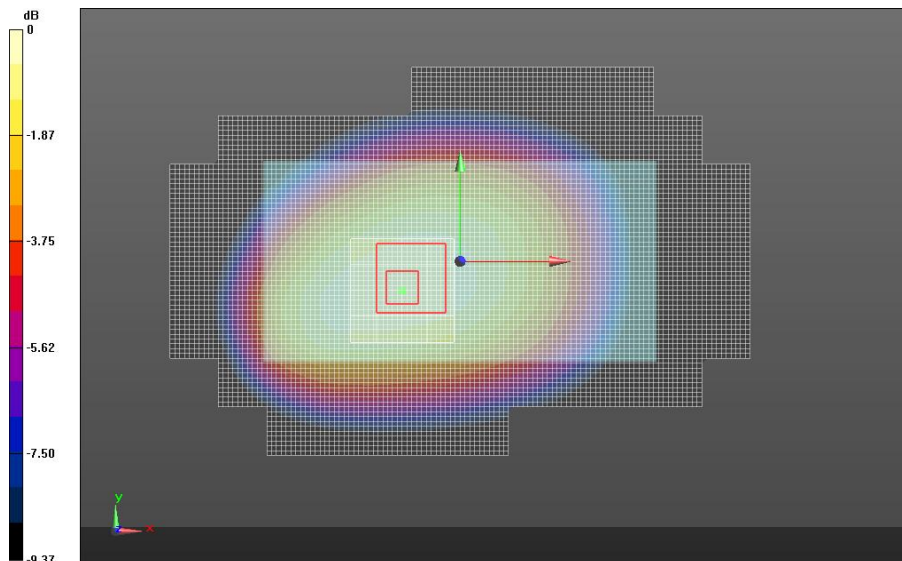
Fast SAR: SAR(1g) = 0.491 W/kg; SAR(10g) = 0.344 W/kg

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 = 22.534 V/m, Power Drift = 0.051 dB

Averaged SAR: SAR(1g) = 0.489 W/kg; SAR(10g) = 0.368 W/kg



0.6-2GHz Triple Flat Phone Template

Date/Time: 5/12/2013 10:01:36 PM

Test Lab: Motorola Mobility

DUT Serial: LUME290017; FCC ID: IHDT56PE1;

Antenna: Internal; Battery: SNN5916B;

Test Configuration: Bottom Edge of Phone 10 mm from Phantom

DASY Configuration:

- Probe: ES3DV3 - SN3037; ConvF(4.83,4.83,4.83); Calibrated: 9/13/2012;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn703; Calibrated: 9/11/2012
- Phantom: R#4 Triple Flat Phantom 5.1C (Rev.4); Type: QD 000 P51 CA; Serial: n/a
- DASY52 52.8.5(1059); SEMCAD X Version 14.6.10 (7164)

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

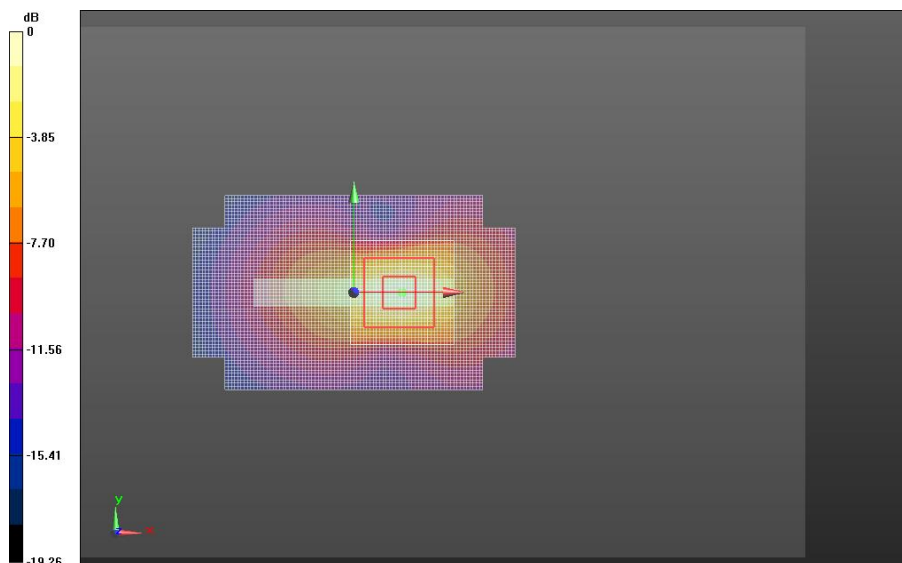
Medium Parameters used: $f=1907.6$ MHz; $\sigma = 1.538$; $\epsilon_r = 50.49$ mho/m; $\rho = 1.000$ kg/m³**0.6-2GHz Triple Flat Phone Template/Area Scan (10mm) (261x141x1):****Interpolated grid: dx=1.000 mm, dy=1.000 mm**

Fast SAR: SAR(1g) = 1.05 W/kg; SAR(10g) = 0.501 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 = 29.560 V/m, Power Drift = -0.049 dB

Averaged SAR: SAR(1g) = 1.10 W/kg; SAR(10g) = 0.528 W/kg

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

Date/Time: 6/4/2013 3:23:41 PM

Test Lab: Motorola Mobility

DUT Serial: LUME290020; FCC ID: IHDT56PE1;

Antenna: Internal; Battery: SNN5916B;

Test Configuration: Left Edge of Phone 10 mm from Phantom

DASY Configuration:

- Probe: EX3DV4 - SN3730; ConvF(6.86,6.86,6.86); Calibrated: 8/24/2012;
- 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 52.8.5(1059); SEMCAD X Version 14.6.10 (7164)

Communication System: _Wi-Fi 2450MHz; Communication System Band: 2450MHz WIFI; Frequency: 2412 MHz; Duty Cycle: 1:1.000

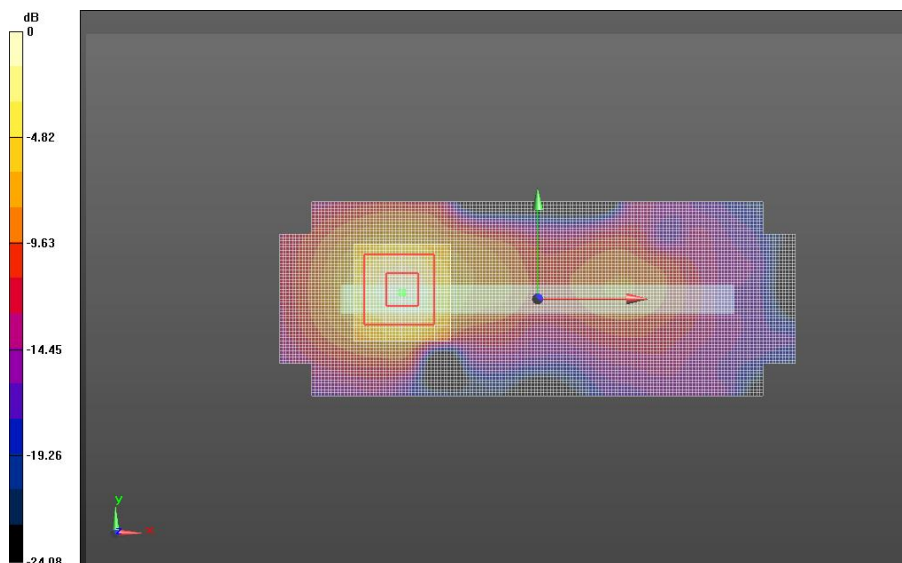
Medium Parameters used: $f=2412$ MHz; $\sigma = 1.920$; $\epsilon_r = 48.53$ mho/m; $\rho = 1.000$ kg/m³**2-3GHz Triple Flat Phone Template/Area Scan (10mm) (261x141x1):****Interpolated grid: dx=1.000 mm, dy=1.000 mm**

Fast SAR: SAR(1g) = 0.182 W/kg; SAR(10g) = 0.0853 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 = 10.224 V/m, Power Drift = -0.093 dB

Averaged SAR: SAR(1g) = 0.189 W/kg; SAR(10g) = 0.0870 W/kg

**2-3GHz Triple Flat Phone Template**

Date/Time: 6/4/2013 1:44:12 AM

Test Lab: Motorola Mobility

DUT Serial: LUME290020; FCC ID: IHDT56PE1;

Antenna: Internal; Battery: SNN5916B;

Test Configuration: Left Edge of Phone 10 mm from Phantom

DASY Configuration:

- Probe: EX3DV4 - SN3730; ConvF(3.81,3.81,3.81); Calibrated: 8/24/2012;
- Sensor-Surface: 2 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 52.8.5(1059); SEMCAD X Version 14.6.10 (7164)

Communication System: _WIFI 5-6GHz; Communication System Band: 5785 MHz Sub-Band;
 Frequency: 5745 MHz; Duty Cycle: 1:1.000

Medium Parameters used: $f=5745$ MHz; $\sigma = 6.120$; $\epsilon_r = 45.82$ mho/m; $\rho = 1.000$ kg/m³

TRIPLE Flat Phone Against Flat Section/Area Scan - Body (10mm) (281x161x1):

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

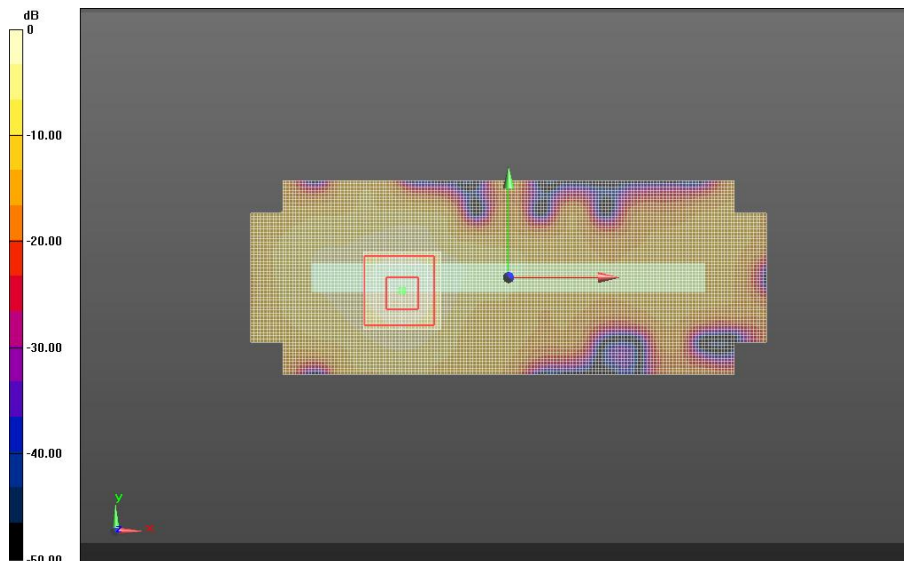
Fast SAR: SAR(1g) = 0.135 W/kg; SAR(10g) = 0.0500 W/kg

TRIPLE Flat Phone Against Flat Section/7x7x12 Zoom Scan (5-6GHz) (31x31x31)/Cube 0:

Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm

Reference Value = 5.779 V/m, Power Drift = 0.095 dB

Averaged SAR: SAR(1g) = 0.144 W/kg; SAR(10g) = 0.0479 W/kg



TRIPLE Flat Phone Against Flat Section

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 = c x f / e</i>	<i>i = c x g / e</i>	<i>k</i>
Uncertainty Component	Description IEEE 1528(2003) / IEC 62209-1(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	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	∞
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	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
Combined Standard Uncertainty				RSS			11	11	390
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>	<i>e = f(d,k)</i>	<i>f</i>	<i>g</i>	<i>h = c x f / e</i>	<i>i = c x g / e</i>	<i>k</i>
Uncertainty Component	Description IEC 62209-2 (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	6.7	R	1.73	1	1	3.9	3.9	∞
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	6.6	R	1.73	1	1	3.8	3.8	∞
SAR Correction	7.2.4.3	1.9	R	1.73	1	0.84	1.1	0.9	∞
Liquid Conductivity (measurement)	7.2.4.3	1.4	N	1.00	0.64	0.43	0.9	0.6	6
Liquid Permittivity (measurement)	7.2.4.3	0.7	N	1.00	0.6	0.49	0.4	0.4	6
Combined Standard Uncertainty			RSS				12	12	557
Expanded Uncertainty (95% CONFIDENCE LEVEL)			<i>k</i> =2				24	24	