APPENDIX B2: VOLUME SCANS AND MULTI-BAND AVERAGE SAR DISTRIBUTION PLOTS FOR HEAD CONFIGURATION

Date/Time: 3/13/2012 10:12:16 AM

Test Laboratory: RIM Testing Services

Volume-Scan_RightHandSide_CDMA1700_high_chan_amb_temp_22.6C_liq_temp_21.1C_Single_Layered

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 331CEAA2

Communication System: CDMA AWS 1700; Frequency: 1753.75 MHz
Medium parameters used (interpolated): f = 1753.75 MHz; σ = 1.416 mho/m; ε_r = 40.889; ρ = 1000 kg/m^3
Phantom section: Right Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

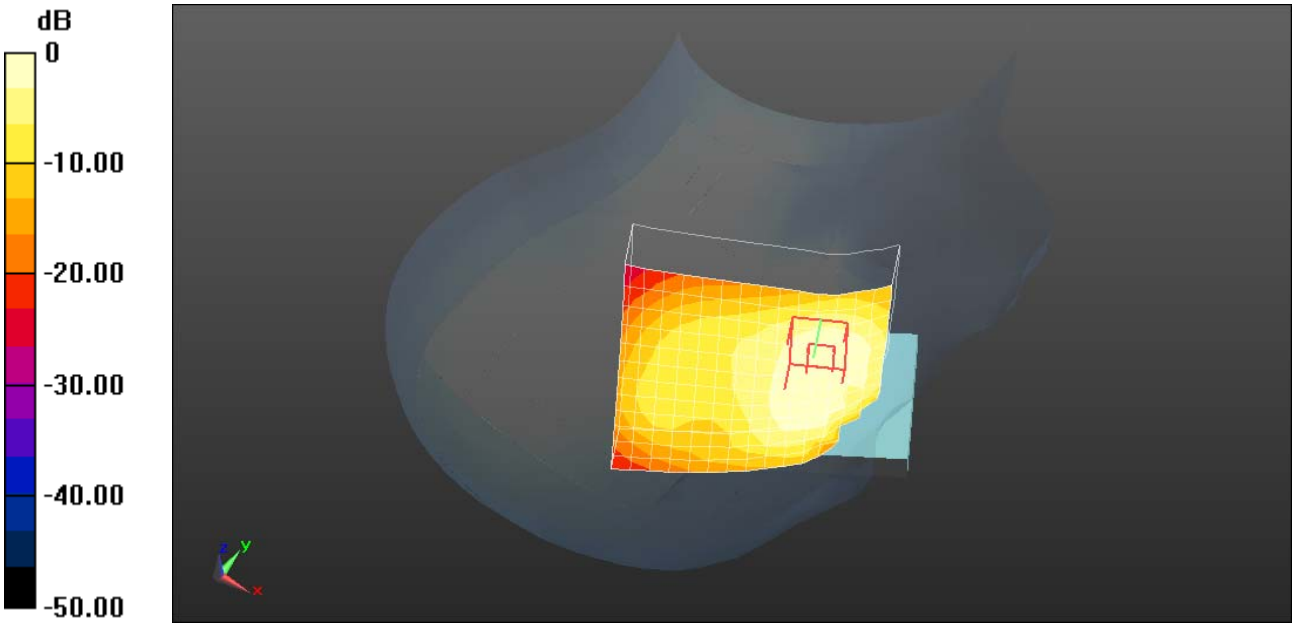
- Probe: ET3DV6 - SN1644; ConvF(5.1, 5.1, 5.1); Calibrated: 11/15/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection), z = 32.7
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position - Volume Scan/Volume Scan (13x15x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 13.266 V/m; Power Drift = -0.006 dB
Peak SAR (extrapolated) = 1.9790
SAR(1 g) = 1.44 mW/g; SAR(10 g) = 0.887 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 1.507 mW/g



0 dB = 1.510mW/g = 3.58 dB mW/g

Date/Time: 3/13/2012 10:12:16 AM

Test Laboratory: RIM Testing Services

Volume-Scan_RightHandSide_CDMA1700_high_chan_amb_temp_22.6C_liq_temp_21.1C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 331CEAA2

Communication System: CDMA AWS 1700; Frequency: 1753.75 MHz
Medium parameters used (interpolated): f = 1753.75 MHz; σ = 1.416 mho/m; ε_r = 40.889; ρ = 1000 kg/m^3
Phantom section: Right Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

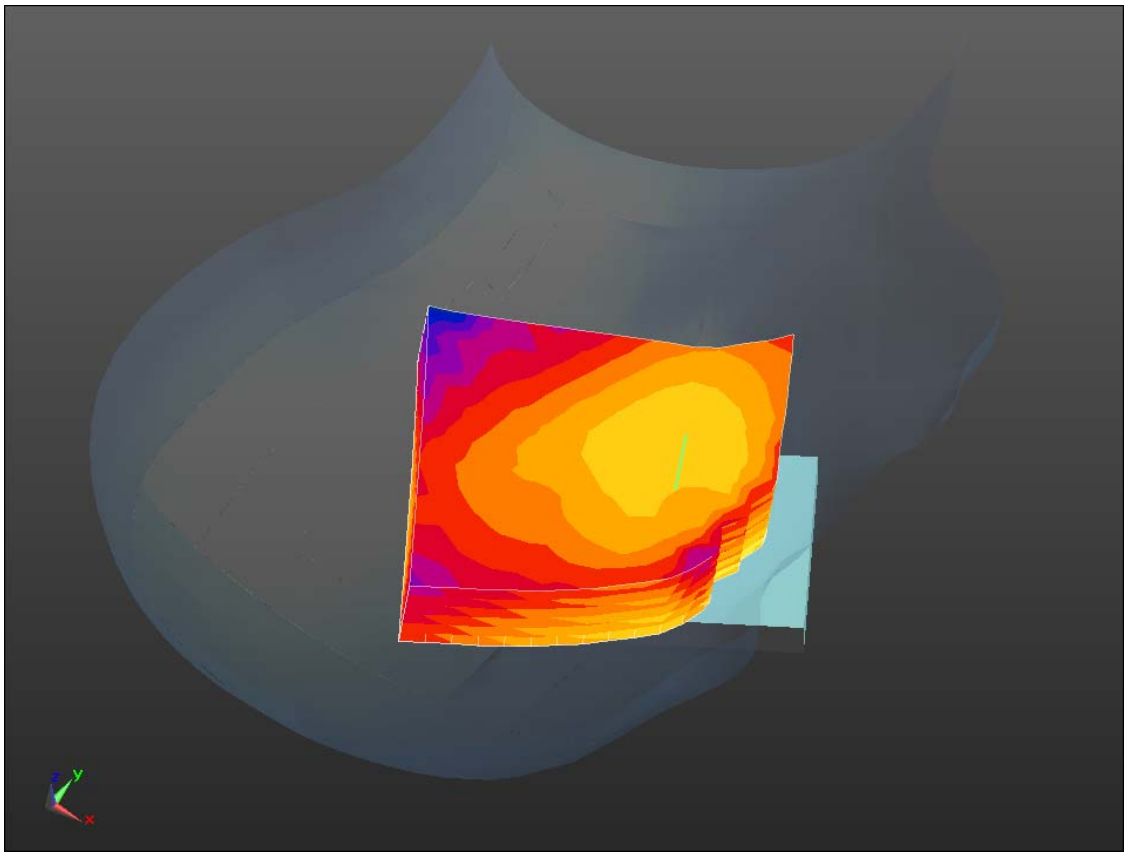
DASY Configuration:

- Probe: ET3DV6 - SN1644; ConvF(5.1, 5.1, 5.1); Calibrated: 11/15/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection), z = 32.7
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position - Volume Scan/Volume Scan (13x15x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 13.266 V/m; Power Drift = -0.006 dB
Peak SAR (extrapolated) = 1.9790
SAR(1 g) = 1.44 mW/g; SAR(10 g) = 0.887 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 1.507 mW/g



0 dB = 1.510mW/g = 3.58 dB mW/g

Date/Time: 3/6/2012 4:26:56 PM

Test Laboratory: RIM Testing Services

Volume_Scan_RightHandSide_802.11b_low_chan_amb_temp_22.4C_liq_temp_20.6C_Single_Layered

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 297DF9E4

Communication System: 802.11 b (2450); Frequency: 2412 MHz
Medium parameters used (interpolated): f = 2412 MHz; σ = 1.812 mho/m; ε_r = 37.761; ρ = 1000 kg/m^3
Phantom section: Right Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

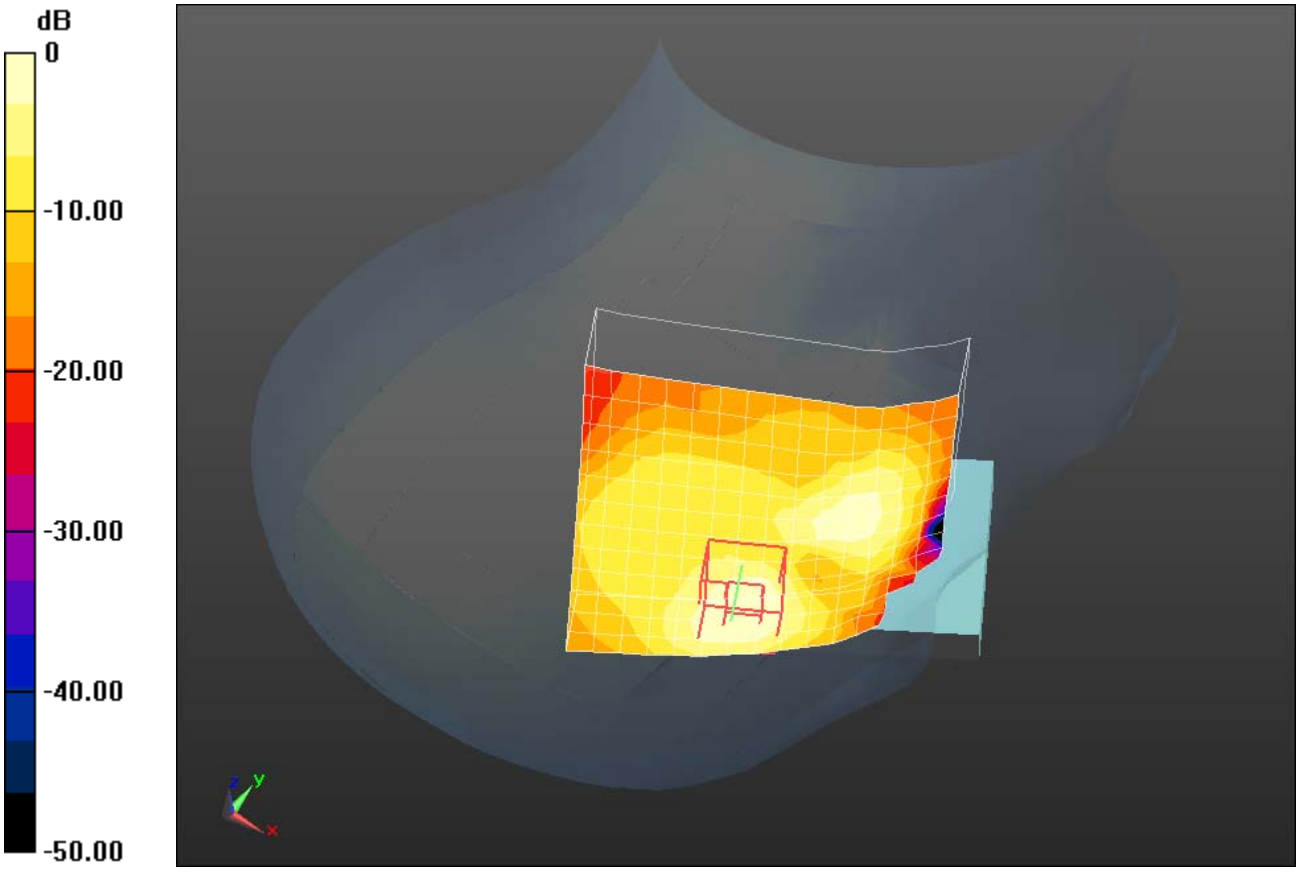
DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.5, 4.5, 4.5); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 32.0
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position - Volume Scan/Volume Scan (13x15x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 5.331 V/m; Power Drift = 0.20 dB
Peak SAR (extrapolated) = 0.3930
SAR(1 g) = 0.194 mW/g; SAR(10 g) = 0.091 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.229 mW/g



0 dB = 0.230mW/g = -12.77 dB mW/g

Date/Time: 3/6/2012 4:26:56 PM

Test Laboratory: RIM Testing Services

Volume_Scan_RightHandSide_802.11b_low_chan_amb_temp_22.4C_liq_temp_20.6C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 297DF9E4

Communication System: 802.11 b (2450); Frequency: 2412 MHz
Medium parameters used (interpolated): f = 2412 MHz; σ = 1.812 mho/m; ε_r = 37.761; ρ = 1000 kg/m^3
Phantom section: Right Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

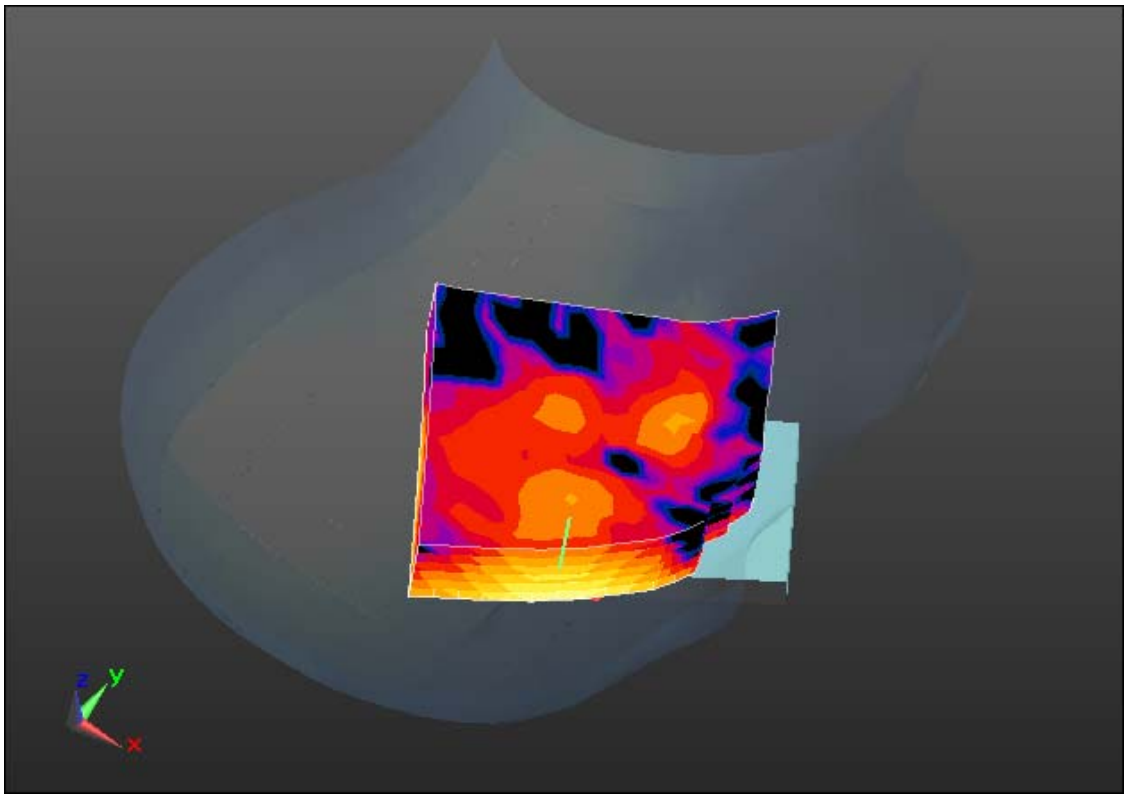
DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.5, 4.5, 4.5); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 32.0
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position - Volume Scan/Volume Scan (13x15x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 5.331 V/m; Power Drift = 0.20 dB
Peak SAR (extrapolated) = 0.3930
SAR(1 g) = 0.194 mW/g; SAR(10 g) = 0.091 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.229 mW/g



0 dB = 0.230mW/g = -12.77 dB mW/g

Multi-band SAR_WiFi_CDMA1700

Multi-Band Configurations,Single_Layered

DASY Configuration for Configuration/Touch position - Volume Scan/Volume Scan:

Date/Time: 3/6/2012 4:26:56 PM
Test Laboratory: RIM Testing Services
File Name: Volume_Scan_RightHandSide_802.11b_low_chan_amb_temp_22.4C_liq_temp_20.6C.da52:0
DUT: BlackBerry Smartphone; Type: Sample ; Serial: 297DF9E4
Communication System: 802.11 b (2450); Frequency: 2412 MHz; Duty Cycle: 1:1; PMF: 1
Medium: HSL2450 Medium parameters used (interpolated): f = 2412 MHz; σ = 1.812 mho/m; ε_r = 37.761; ρ = 1000 kg/m^3
Phantom section: Right Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

- Probe: ES3DV3 - SN3225; ConvF(4.5, 4.5, 4.5); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY52, Version 52.8 (0)

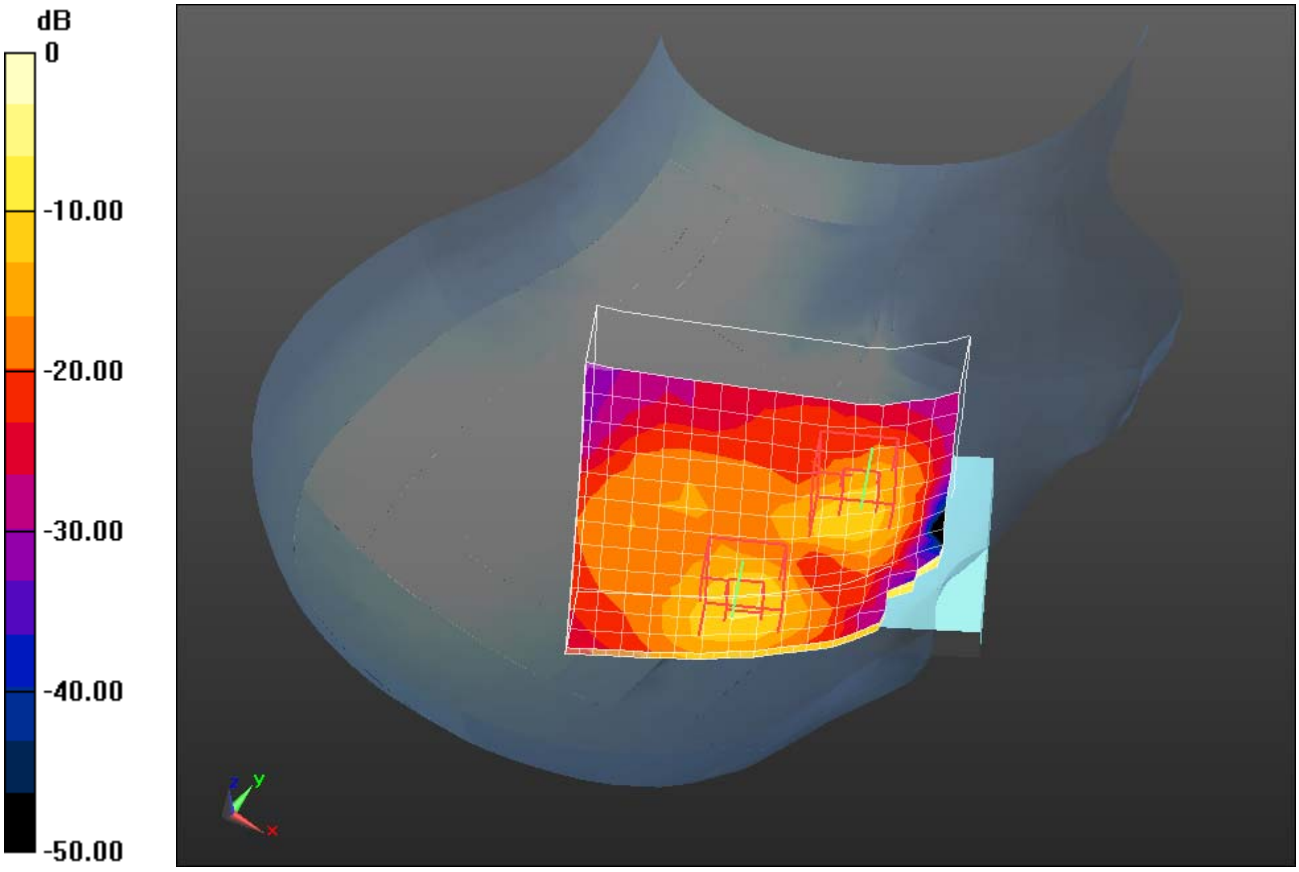
DASY Configuration for Configuration/Touch position - Volume Scan/Volume Scan:

Date/Time: 3/13/2012 10:12:16 AM
Test Laboratory: RIM Testing Services
File Name: Volume-Scan_RightHandSide_CDMA1700_high_chan_amb_temp_22.6C_liq_temp_21.1C.da52:0
DUT: BlackBerry Smartphone; Type: Sample ; Serial: 331CEAA2
Communication System: CDMA AWS 1700; Frequency: 1753.75 MHz; Duty Cycle: 1:1; PMF: 1
Medium: HSL1800 Medium parameters used (interpolated): f = 1753.75 MHz; σ = 1.416

mho/m; ε_r = 40.889; ρ = 1000 kg/m^3
Phantom section: Right Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

- Probe: ET3DV6 - SN1644; ConvF(5.1, 5.1, 5.1); Calibrated: 11/15/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY52, Version 52.8 (0)

Multi Band Result:
SAR(1 g) = 1.56 mW/g; SAR(10 g) = 0.944 mW/g
Maximum value of SAR (interpolated) = 2.136 mW/g



0 dB = 2.140mW/g = 6.61 dB mW/g

SEMCAD X Version 14.6.4 (4989)

Multi-Band Average SAR_CDMA1700_RightHeadSide

Multi-Band Configurations:

DASY Configuration for Configuration/Touch position - Volume Scan/Volume Scan:

Date/Time: 3/6/2012 4:26:56 PM
Test Laboratory: RIM Testing Services
File Name:
Volume_Scan_RightHandSide_802.11b_low_chan_amb_temp_22.4C_liq_temp_20.6C.da52:0
DUT: BlackBerry Smartphone; Type: Sample ; Serial: 297DF9E4
Communication System: 802.11 b (2450); Frequency: 2412 MHz; Duty Cycle: 1:1; PMF: 1
Medium: HSL2450 Medium parameters used (interpolated): f = 2412 MHz; σ = 1.812 mho/m; ε_r = 37.761; ρ = 1000 kg/m^3
Phantom section: Right Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

- Probe: ES3DV3 - SN3225; ConvF(4.5, 4.5, 4.5); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY52, Version 52.8 (0)

DASY Configuration for Configuration/Touch position - Volume Scan/Volume Scan:

Date/Time: 3/13/2012 10:12:16 AM
Test Laboratory: RIM Testing Services

File Name: Volume-Scan_RightHandSide_CDMA1700_high_chan_amb_temp_22.6C_liq_temp_21.1C.da52:0

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 331CEAA2

Communication System: CDMA AWS 1700; Frequency: 1753.75 MHz; Duty Cycle: 1:1; PMF: 1

Medium: HSL1800 Medium parameters used (interpolated): f = 1753.75 MHz; σ = 1.416 mho/m; ε_r = 40.889; ρ = 1000 kg/m^3

Phantom section: Right Section

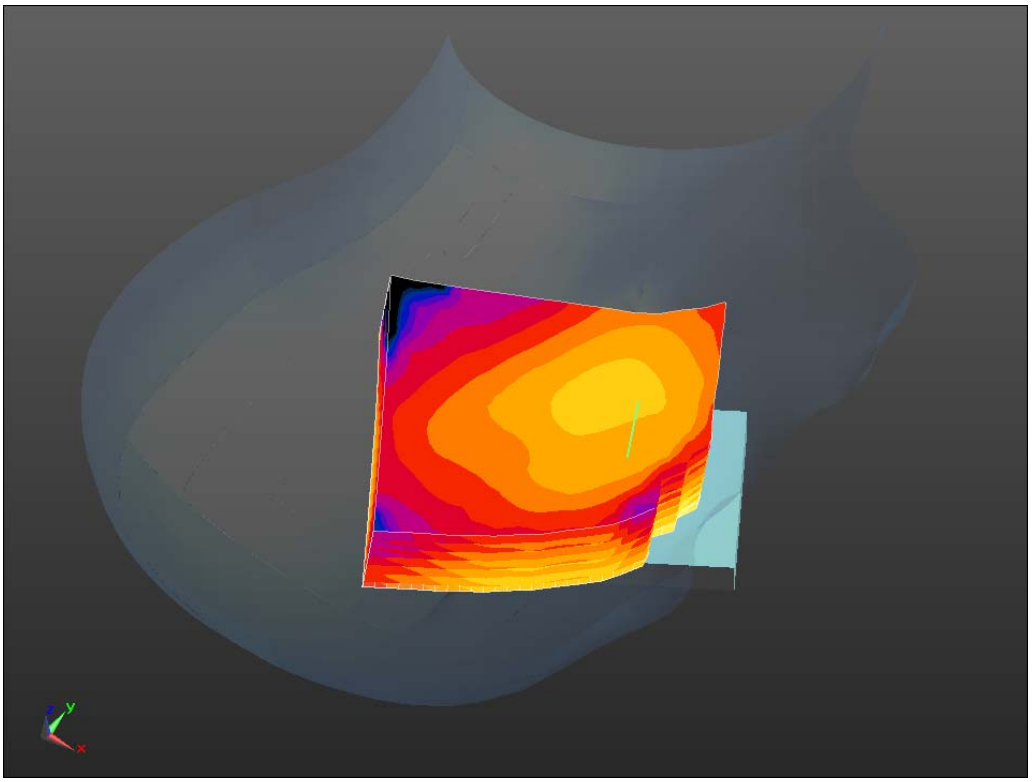
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

- Probe: ET3DV6 - SN1644; ConvF(5.1, 5.1, 5.1); Calibrated: 11/15/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY52, Version 52.8 (0)

Multi Band Result:

SAR(1 g) = 1.56 mW/g; SAR(10 g) = 0.944 mW/g

Maximum value of SAR (interpolated) = 2.136 mW/g



0 dB = 2.140mW/g = 6.61 dB mW/g