

		Document Appendix A for the BlackBerry® Smartphone Model RGY181LW SAR Report Rev 2		Page 1(39)
Author Data Andrew Becker	Dates of Test April 15 – June 13, 2014	Test Report No RTS-6057-1405-01	FCC ID: L6ARGY180LW	

APPENDIX A: SAR DISTRIBUTION COMPARISON FOR ACCURACY VERIFICATION

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Date/Time: 5/8/2014 11:01:20 PM

Test Laboratory: BlackBerry RTS

DipoleValidation_750MHz_05_08_14_Amb_Tem_23.8C_Liq_Tem_22.1

DUT: Dipole 750 MHz; Type: D750V3; Serial: D750V3 - SN:1021

Communication System: UID 0, CW; Frequency: 750 MHz

Medium parameters used: $f = 750 \text{ MHz}$; $\sigma = 0.891 \text{ S/m}$; $\epsilon_r = 40.512$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ET3DV6 - SN1643; ConvF(6.55, 6.55, 6.55); Calibrated: 3/10/2014;
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 2.7, 32.7$
- Electronics: DAE3 Sn472; Calibrated: 3/18/2014
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASYS 52.8.7(1137); SEMCAD X 14.6.10(7164)

Configuration/RF ON_d=15mm, Pin=1000mW/Area Scan

(41x121x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Reference Value = 103.9 V/m ; Power Drift = -0.01 dB

Fast SAR: SAR(1 g) = 8.31 W/kg; SAR(10 g) = 5.56 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 8.95 W/kg

Configuration/RF ON_d=15mm, Pin=1000mW/Zoom Scan (5x5x7)

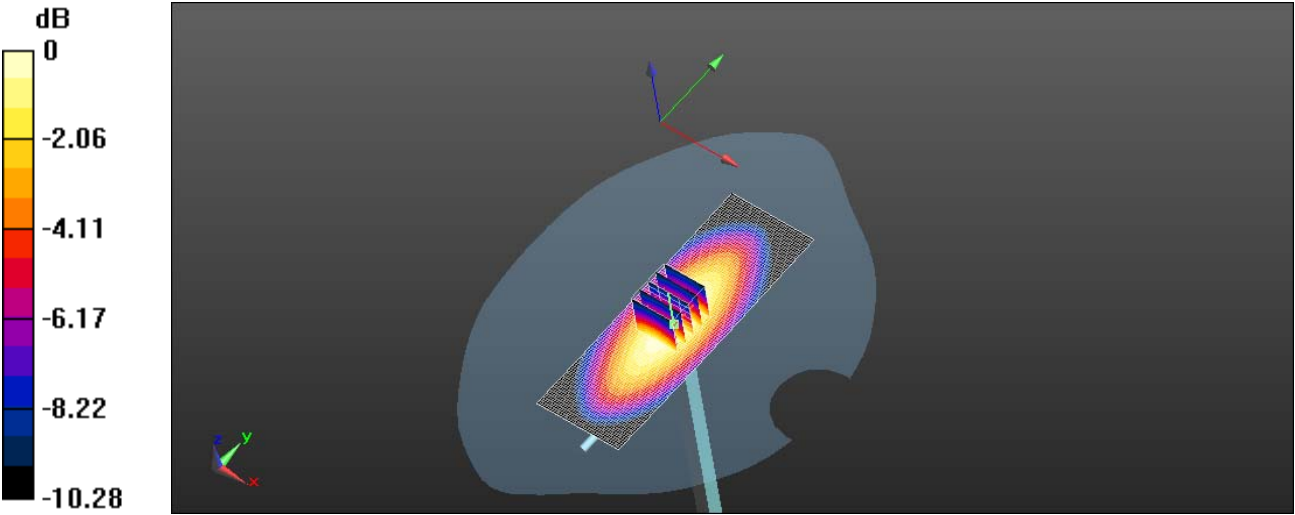
(5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 103.9 V/m ; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 12.3 W/kg

SAR(1 g) = 8.25 W/kg; SAR(10 g) = 5.42 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 8.90 W/kg



0 dB = 8.90 W/kg = 9.49 dBW/kg

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Date/Time: 5/12/2014 8:53:21 AM

Test Laboratory: BlackBerry RTS

DipoleValidation_750MHz_05_12_14_Amb_Tem_23.9C_Liq_Tem_22.3C

DUT: Dipole 750 MHz; Type: D750V3; Serial: D750V3 - SN:1021

Communication System: UID 0, CW; Frequency: 750 MHz

Medium parameters used: $f = 750 \text{ MHz}$; $\sigma = 0.897 \text{ S/m}$; $\epsilon_r = 40.94$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ET3DV6 - SN1643; ConvF(6.55, 6.55, 6.55); Calibrated: 3/10/2014;
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 2.7, 32.7$
- Electronics: DAE3 Sn472; Calibrated: 3/18/2014
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Configuration/RF ON_d=15mm, Pin=1000mW/Area Scan

(41x121x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Reference Value = 101.8 V/m ; Power Drift = -0.08 dB

Fast SAR: SAR(1 g) = 8.13 W/kg; SAR(10 g) = 5.44 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 8.74 W/kg

Configuration/RF ON_d=15mm, Pin=1000mW/Zoom Scan (5x5x7)

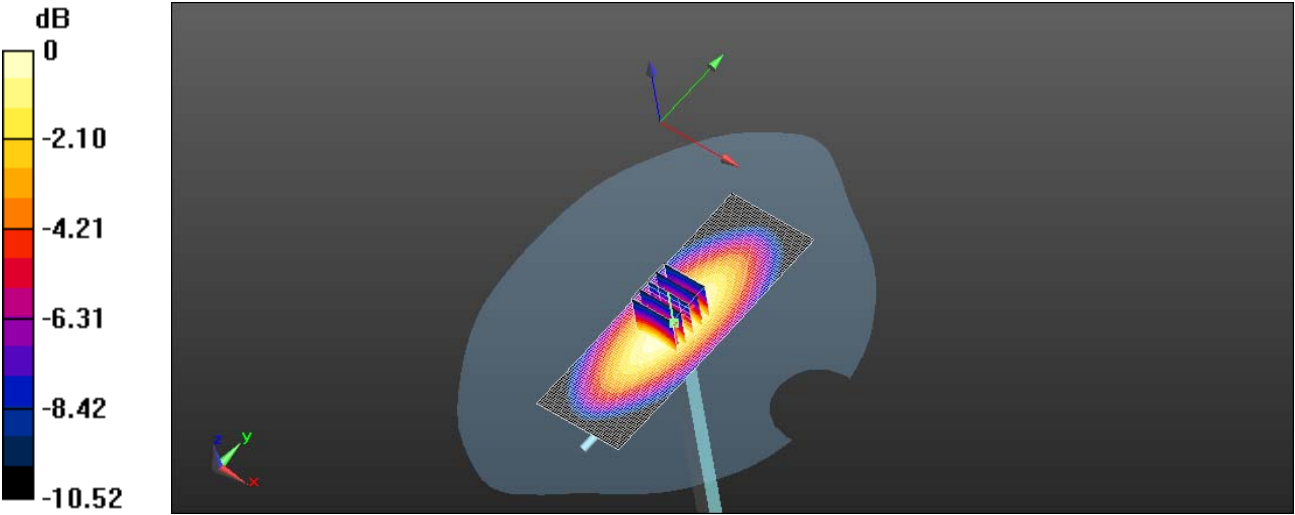
(5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 101.8 V/m ; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 11.8 W/kg

SAR(1 g) = 8.03 W/kg; SAR(10 g) = 5.26 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 8.66 W/kg



0 dB = 8.66 W/kg = 9.38 dBW/kg

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Date/Time: 5/1/2014 2:55:37 PM

Test Laboratory: BlackBerry RTS

DipoleValidation_835MHz_05_01_14_Amb_Tem_23.8C_Liq_Tem_22.0C

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:446

Communication System: UID 0, CW (0); Frequency: 835 MHz

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.869 \text{ S/m}$; $\epsilon_r = 39.957$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ET3DV6 - SN1643; ConvF(6.55, 6.55, 6.55); Calibrated: 3/10/2014;
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 2.7, 32.7$
- Electronics: DAE3 Sn472; Calibrated: 3/18/2014
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASYS 52.8.7(1137); SEMCAD X 14.6.10(7164)

System Performance Check at Frequencies below 1 GHz/d=15mm, Pin=1000mW, dist=4.0mm (ET-Probe)/Area Scan (41x121x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Reference Value = 111.2 V/m; Power Drift = 0.01 dB

Fast SAR: SAR(1 g) = 9.52 W/kg; SAR(10 g) = 6.31 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 10.1 W/kg

System Performance Check at Frequencies below 1 GHz/d=15mm, Pin=1000mW, dist=4.0mm (ET-Probe)/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 111.2 V/m; Power Drift = 0.01 dB

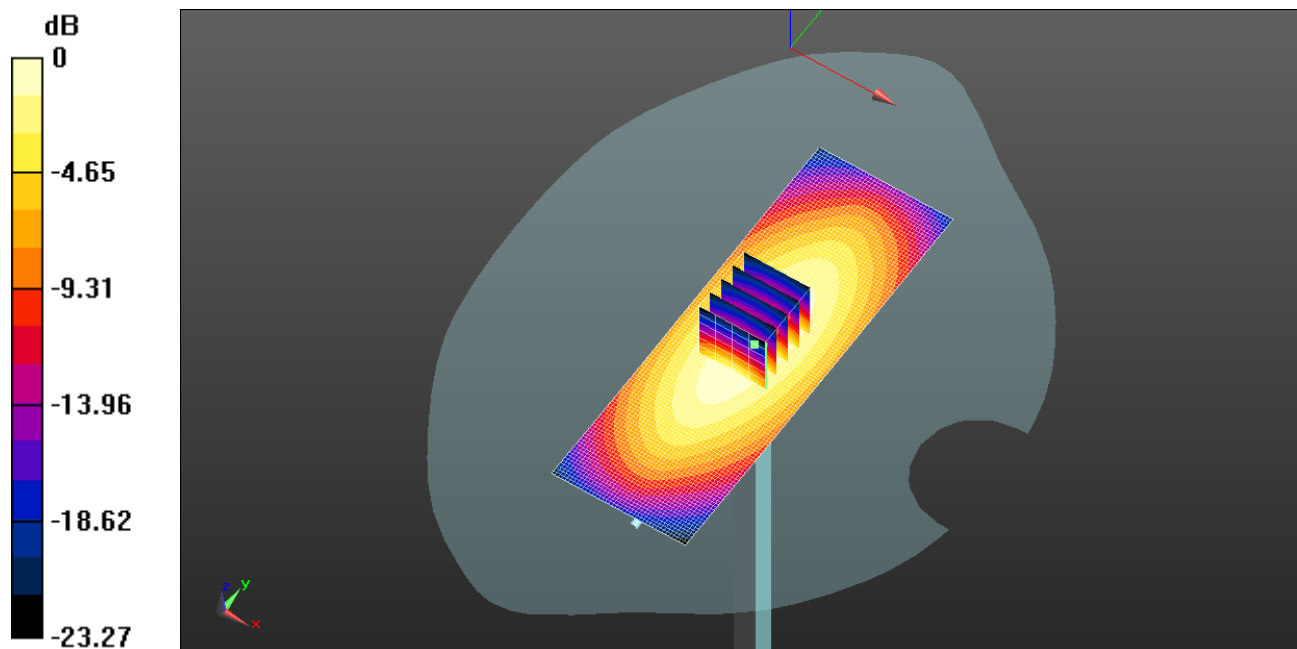
Peak SAR (extrapolated) = 13.3 W/kg

SAR(1 g) = 9.48 W/kg; SAR(10 g) = 6.27 W/kg (SAR corrected for target

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medium)

Maximum value of SAR (measured) = 10.0 W/kg



0 dB = 10.1 W/kg = 10.03 dBW/kg

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Date/Time: 5/5/2014 11:04:15 AM

Test Laboratory: BlackBerry RTS

DipoleValidation_835MHz_05_05_14_Amb_Tem_24.0C_Liq_Tem_22.9C

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:446

Communication System: UID 0, CW (0); Frequency: 835 MHz

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.887 \text{ S/m}$; $\epsilon_r = 40.013$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ET3DV6 - SN1643; ConvF(6.55, 6.55, 6.55); Calibrated: 3/10/2014;
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 2.7, 32.7$
- Electronics: DAE3 Sn472; Calibrated: 3/18/2014
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASYS 52.8.7(1137); SEMCAD X 14.6.10(7164)

System Performance Check at Frequencies below 1 GHz/d=15mm, Pin=1000mW, dist=4.0mm (ET-Probe)/Area Scan (41x121x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Reference Value = 113.0 V/m ; Power Drift = -0.08 dB

Fast SAR: SAR(1 g) = 9.74 W/kg; SAR(10 g) = 6.46 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 10.5 W/kg

System Performance Check at Frequencies below 1 GHz/d=15mm, Pin=1000mW, dist=4.0mm (ET-Probe)/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 113.0 V/m ; Power Drift = -0.08 dB

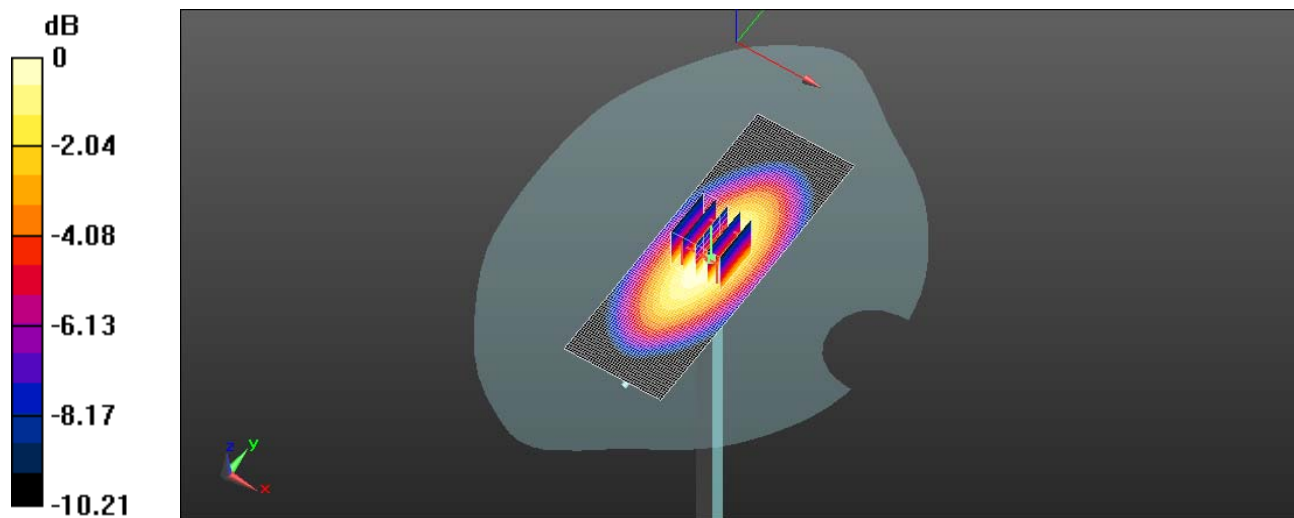
Peak SAR (extrapolated) = 13.7 W/kg

SAR(1 g) = 9.55 W/kg; SAR(10 g) = 6.33 W/kg (SAR corrected for target

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medium)

Maximum value of SAR (measured) = 10.3 W/kg



0 dB = 10.3 W/kg = 10.13 dBW/kg

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Date/Time: 6/9/2014 12:52:24 PM

Test Laboratory: BlackBerry RTS

DipoleValidation_835MHz_06_09_14_Amb_Tem_23.0C_Liq_Tem_22.9C

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:446

Communication System: UID 0, CW (0); Frequency: 835 MHz

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.885 \text{ S/m}$; $\epsilon_r = 41.338$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ET3DV6 - SN1643; ConvF(6.55, 6.55, 6.55); Calibrated: 3/10/2014;
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 2.7, 32.7$
- Electronics: DAE3 Sn472; Calibrated: 3/18/2014
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASYS 52.8.7(1137); SEMCAD X 14.6.10(7164)

System Performance Check at Frequencies below 1 GHz/d=15mm, Pin=1000mW, dist=4.0mm (ET-Probe)/Area Scan (41x121x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Reference Value = 110.4 V/m; Power Drift = -0.00 dB

Fast SAR: SAR(1 g) = 9.42 W/kg; SAR(10 g) = 6.25 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 10.0 W/kg

System Performance Check at Frequencies below 1 GHz/d=15mm, Pin=1000mW, dist=4.0mm (ET-Probe)/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 110.4 V/m; Power Drift = -0.00 dB

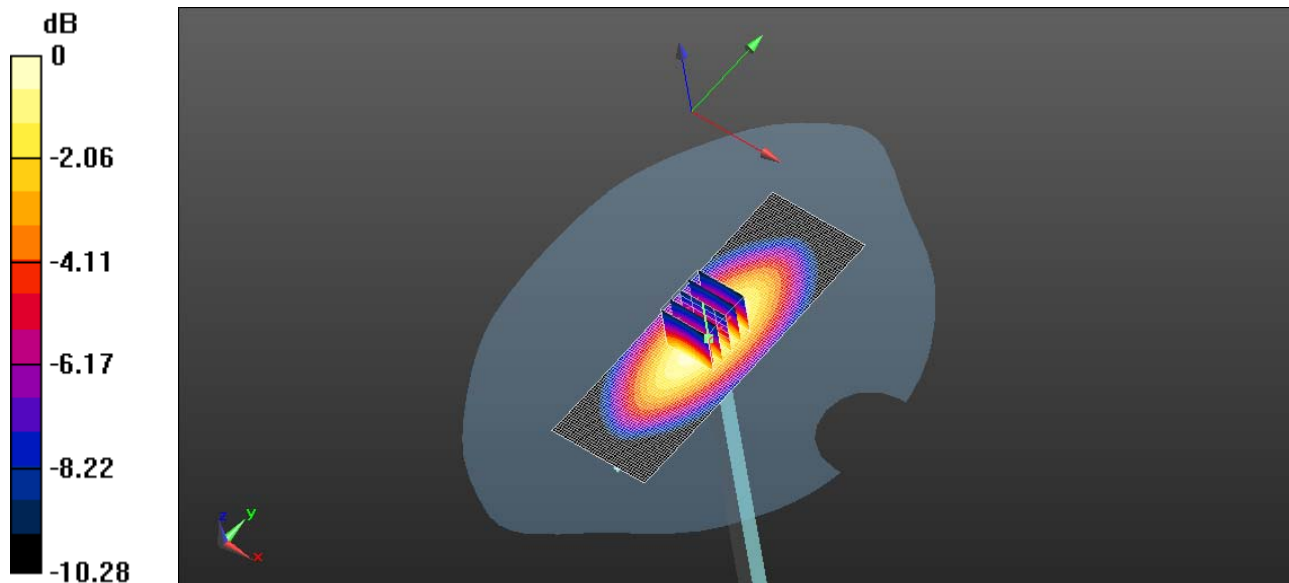
Peak SAR (extrapolated) = 13.6 W/kg

SAR(1 g) = 9.48 W/kg; SAR(10 g) = 6.23 W/kg (SAR corrected for target

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medium)

Maximum value of SAR (measured) = 10.2 W/kg



0 dB = 10.2 W/kg = 10.09 dBW/kg

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Date/Time: 5/13/2014 12:07:57 AM

Test Laboratory: BlackBerry RTS

DipoleValidation_1800MHz_05_12_14_Amb_Tem_24.1C_Liq_Tem_22.5

DUT: Dipole 1800 MHz; Type: D1800V2; Serial: D1800V2 - SN:2d020

Communication System: UID 0, CW; Frequency: 1800 MHz

Medium parameters used: $f = 1800 \text{ MHz}$; $\sigma = 1.468 \text{ S/m}$; $\epsilon_r = 40.426$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ET3DV6 - SN1643; ConvF(5.17, 5.17, 5.17); Calibrated: 3/10/2014;
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 2.7, 32.7$
- Electronics: DAE3 Sn472; Calibrated: 3/18/2014
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASYS 52.8.7(1137); SEMCAD X 14.6.10(7164)

Configuration/RF_ON_d=10mm, Pin=1000mW/Area Scan (41x81x1):

Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Reference Value = 169.1 V/m ; Power Drift = -0.01 dB

Fast SAR: SAR(1 g) = 35.7 W/kg ; SAR(10 g) = 19.2 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 41.4 W/kg

Configuration/RF_ON_d=10mm, Pin=1000mW/Zoom Scan (5x5x7)

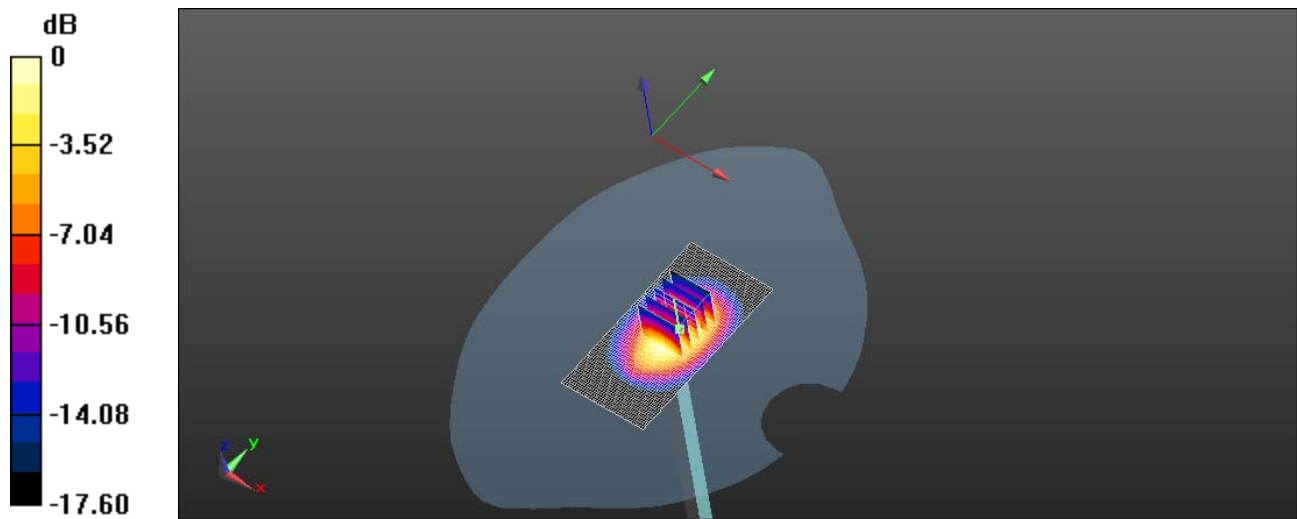
(5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 169.1 V/m ; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 58.0 W/kg

SAR(1 g) = 34.8 W/kg ; SAR(10 g) = 18.6 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 39.1 W/kg



0 dB = 39.1 W/kg = 15.92 dBW/kg

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Date/Time: 5/15/2014 10:06:00 AM

Test Laboratory: BlackBerry RTS

DipoleValidation_1800MHz_05_15_14_Amb_Tem_24.4C_Liq_Tem_23.0C

DUT: Dipole 1800 MHz; Type: D1800V2; Serial: D1800V2 - SN:2d020

Communication System: UID 0, CW; Frequency: 1800 MHz

Medium parameters used: $f = 1800 \text{ MHz}$; $\sigma = 1.437 \text{ S/m}$; $\epsilon_r = 40.119$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ET3DV6 - SN1643; ConvF(5.17, 5.17, 5.17); Calibrated: 3/10/2014;
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 2.7, 32.7$
- Electronics: DAE3 Sn472; Calibrated: 3/18/2014
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Configuration/RF_ON_d=10mm, Pin=1000mW/Area Scan (41x81x1):

Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Reference Value = 177.2 V/m ; Power Drift = -0.04 dB

Fast SAR: SAR(1 g) = 35.6 W/kg ; SAR(10 g) = 19.2 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 39.9 W/kg

Configuration/RF_ON_d=10mm, Pin=1000mW/Zoom Scan (5x5x7)

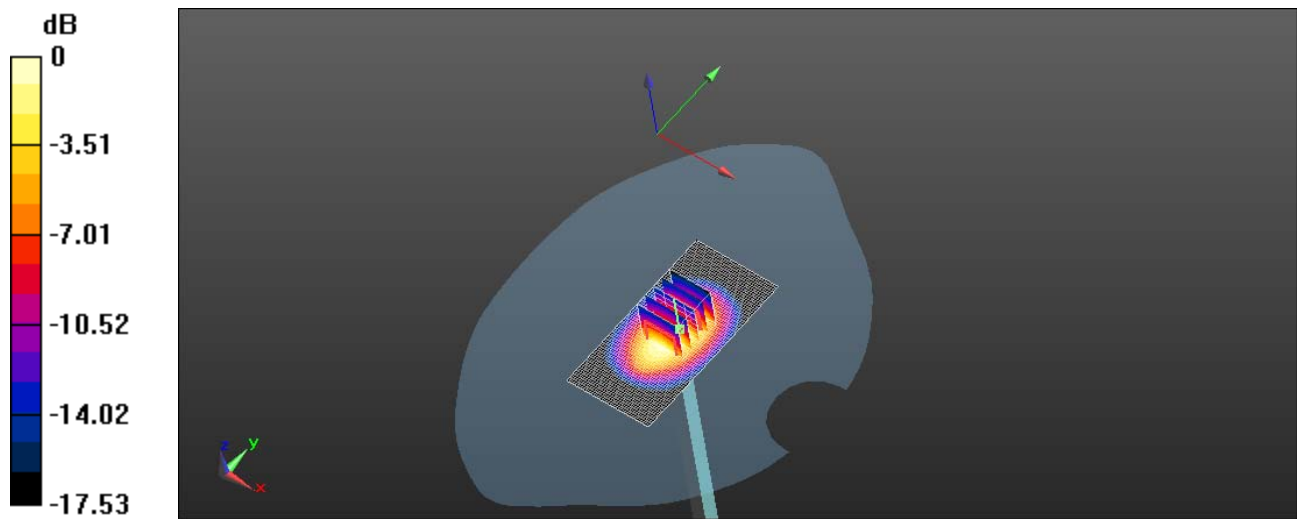
(5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 177.2 V/m ; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 60.0 W/kg

SAR(1 g) = 35.3 W/kg ; SAR(10 g) = 18.8 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 39.4 W/kg



0 dB = 39.4 W/kg = 15.95 dBW/kg

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Date/Time: 6/4/2014 1:36:11 PM

Test Laboratory: BlackBerry RTS

DipoleValidation_1800MHz_06_04_14_Amb_Tem_23.7C_Liq_Tem_22.4 C

DUT: Dipole 1800 MHz; Type: D1800V2; Serial: D1800V2 - SN:2d020

Communication System: UID 0, CW; Frequency: 1800 MHz

Medium parameters used: $f = 1800 \text{ MHz}$; $\sigma = 1.461 \text{ S/m}$; $\epsilon_r = 39.976$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ET3DV6 - SN1643; ConvF(5.17, 5.17, 5.17); Calibrated: 3/10/2014;
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 2.7, 32.7$
- Electronics: DAE3 Sn472; Calibrated: 3/18/2014
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Configuration/RF_ON_d=10mm, Pin=1000mW/Area Scan

(41x81x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Reference Value = 175.0 V/m ; Power Drift = 0.02 dB

Fast SAR: SAR(1 g) = 36 W/kg; SAR(10 g) = 19.4 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 40.7 W/kg

Configuration/RF_ON_d=10mm, Pin=1000mW/Zoom Scan (5x5x7)

(6x6x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 175.0 V/m ; Power Drift = 0.02 dB

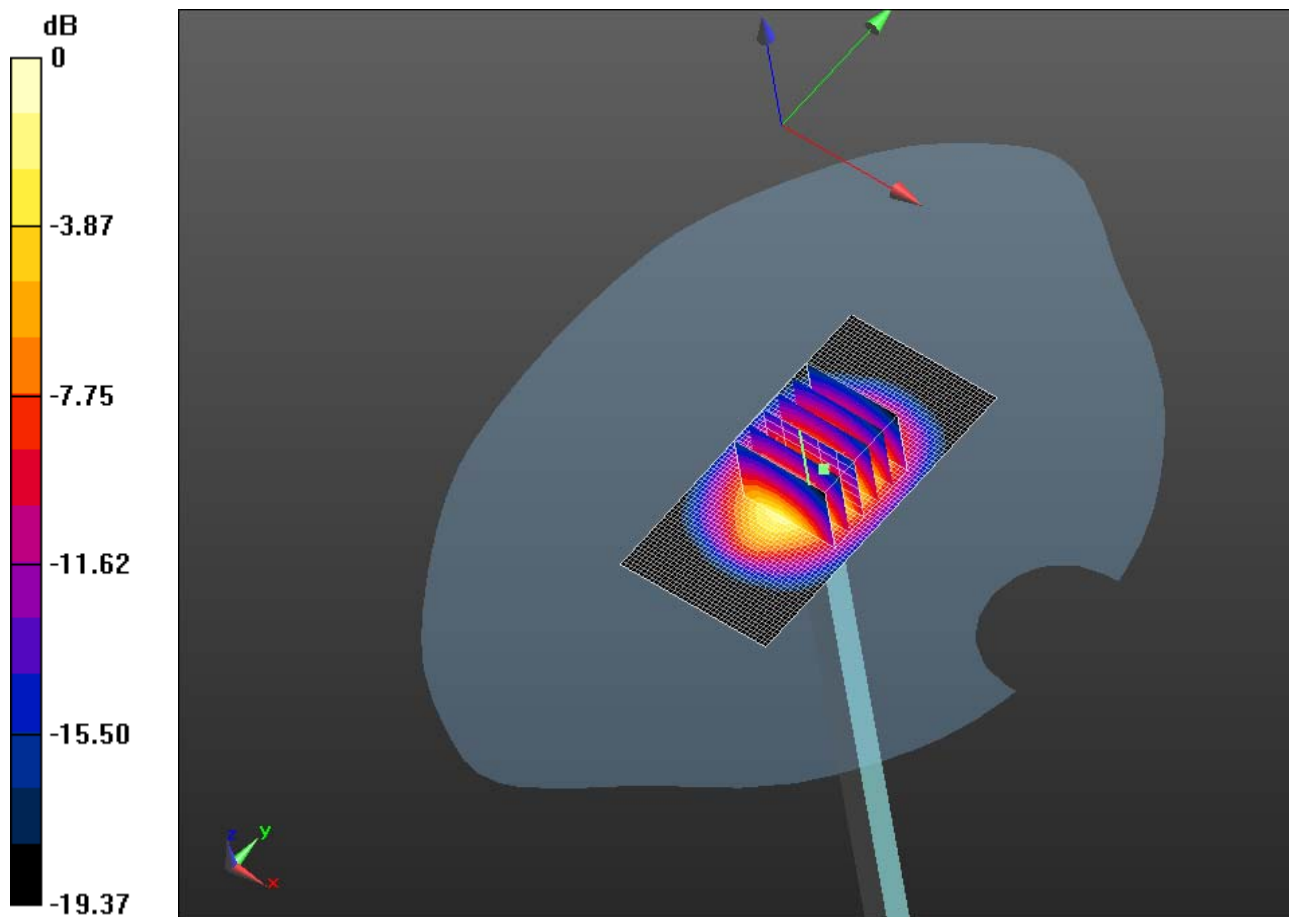
Peak SAR (extrapolated) = 60.2 W/kg

SAR(1 g) = 35.5 W/kg; SAR(10 g) = 19 W/kg (SAR corrected for target

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medium)

Maximum value of SAR (measured) = 39.7 W/kg



0 dB = 39.7 W/kg = 15.99 dBW/kg

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Date/Time: 4/24/2014 5:49:02 PM

Test Laboratory: BlackBerry RTS

DipoleValidation_1900MHz_04_24_14_Amb_Tem_23.8C_Liq_Tem_21.1

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:545

Communication System: UID 0, CW; Frequency: 1900 MHz

Medium parameters used: $f = 1900 \text{ MHz}$; $\sigma = 1.434 \text{ S/m}$; $\epsilon_r = 39.194$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ET3DV6 - SN1643; ConvF(5.17, 5.17, 5.17); Calibrated: 3/10/2014;
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 2.7, 32.7$
- Electronics: DAE3 Sn472; Calibrated: 3/18/2014
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASYS 52.8.7(1137); SEMCAD X 14.6.10(7164)

Configuration/d=10mm, Pin=1000mW/Area Scan (41x81x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Reference Value = 189.1 V/m ; Power Drift = -0.06 dB

Fast SAR: SAR(1 g) = 40.9 W/kg; SAR(10 g) = 21.9 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 46.6 W/kg

Configuration/d=10mm, Pin=1000mW/Zoom Scan (5x5x7) (6x6x7)/Cube

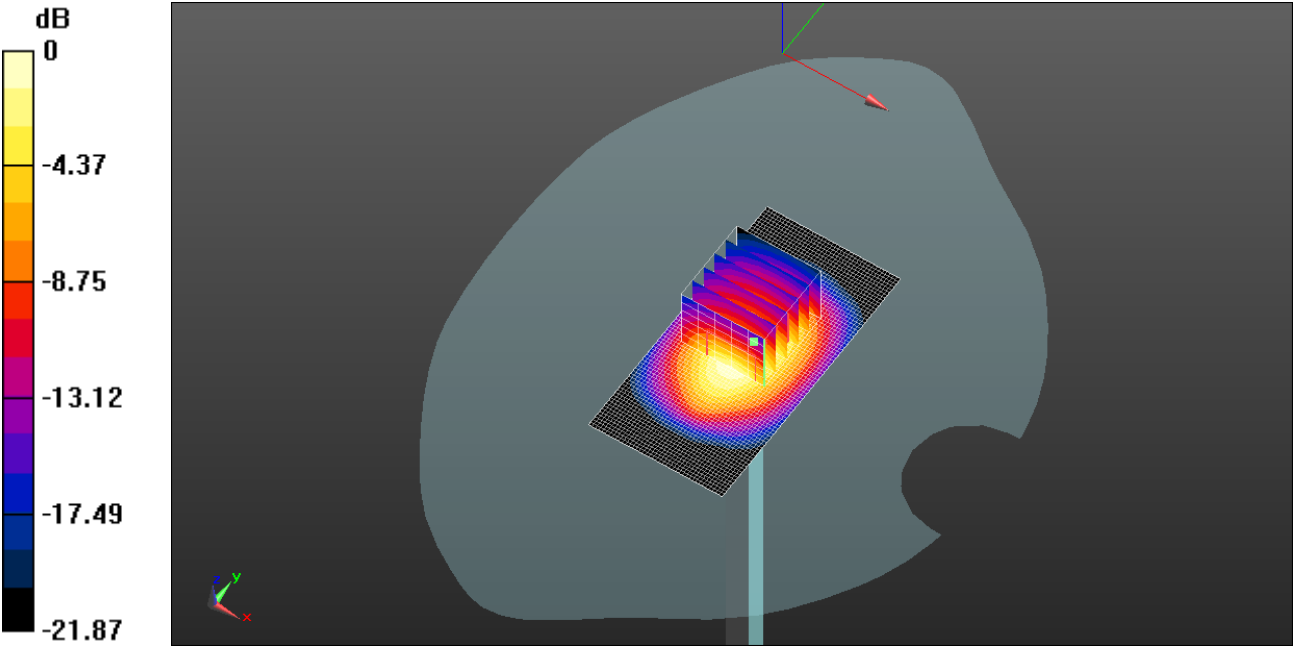
0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 189.1 V/m ; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 67.2 W/kg

SAR(1 g) = 39.9 W/kg; SAR(10 g) = 21.4 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 44.4 W/kg



0 dB = 44.4 W/kg = 16.47 dBW/kg

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Date/Time: 4/28/2014 10:31:43 AM

Test Laboratory: BlackBerry RTS

DipoleValidation_1900MHz_04_28_14_Amb_Tem_24.1C_Liq_Tem_22.4C

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:545

Communication System: UID 0, CW; Frequency: 1900 MHz

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.368$ S/m; $\epsilon_r = 40.91$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ET3DV6 - SN1643; ConvF(5.17, 5.17, 5.17); Calibrated: 3/10/2014;
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 2.7, 32.7$
- Electronics: DAE3 Sn472; Calibrated: 3/18/2014
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Configuration/d=10mm, Pin=1000mW/Area Scan (41x81x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Reference Value = 183.1 V/m; Power Drift = -0.03 dB

Fast SAR: SAR(1 g) = 38 W/kg; SAR(10 g) = 20.1 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 42.3 W/kg

Configuration/d=10mm, Pin=1000mW/Zoom Scan (5x5x7) (6x7x7)/Cube

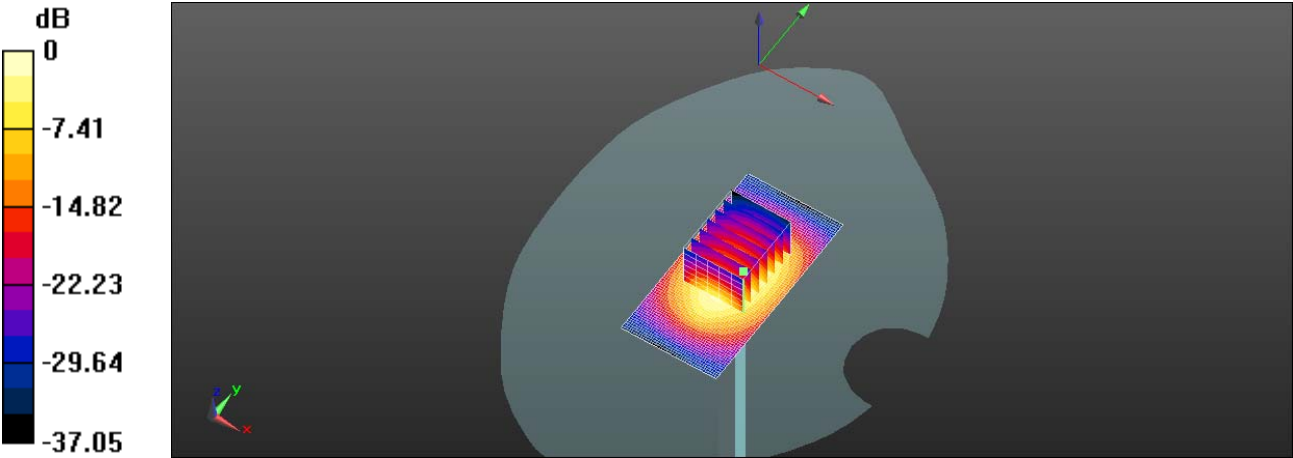
0: Measurement grid: $dx=7.5$ mm, $dy=7.5$ mm, $dz=5$ mm

Reference Value = 183.1 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 61.6 W/kg

SAR(1 g) = 37.6 W/kg; SAR(10 g) = 20.1 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 41.1 W/kg



0 dB = 42.3 W/kg = 16.26 dBW/kg

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Author Data Andrew Becker	Dates of Test April 15 – June 13, 2014	Test Report No RTS-6057-1405-01	FCC ID: L6ARGY180LW	

Date/Time: 5/30/2014 10:06:00 AM

Test Laboratory: BlackBerry RTS

DipoleValidation_1900MHz_05_30_14_Amb_Tem_23.1C_Liq_Tem_22.2C

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:545

Communication System: UID 0, CW; Frequency: 1900 MHz

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.405$ S/m; $\epsilon_r = 40.304$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ET3DV6 - SN1643; ConvF(5.17, 5.17, 5.17); Calibrated: 3/10/2014;
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 2.7, 32.7$
- Electronics: DAE3 Sn472; Calibrated: 3/18/2014
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASYS2 52.8.7(1137); SEMCAD X 14.6.10(7164)

Configuration/d=10mm, Pin=1000mW/Area Scan (41x81x1): Interpolated

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

Reference Value = 180.6 V/m; Power Drift = -0.02 dB

Fast SAR: SAR(1 g) = 38.3 W/kg; SAR(10 g) = 20.2 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 44.5 W/kg

Configuration/d=10mm, Pin=1000mW/Zoom Scan (5x5x7) (6x6x7)/Cube

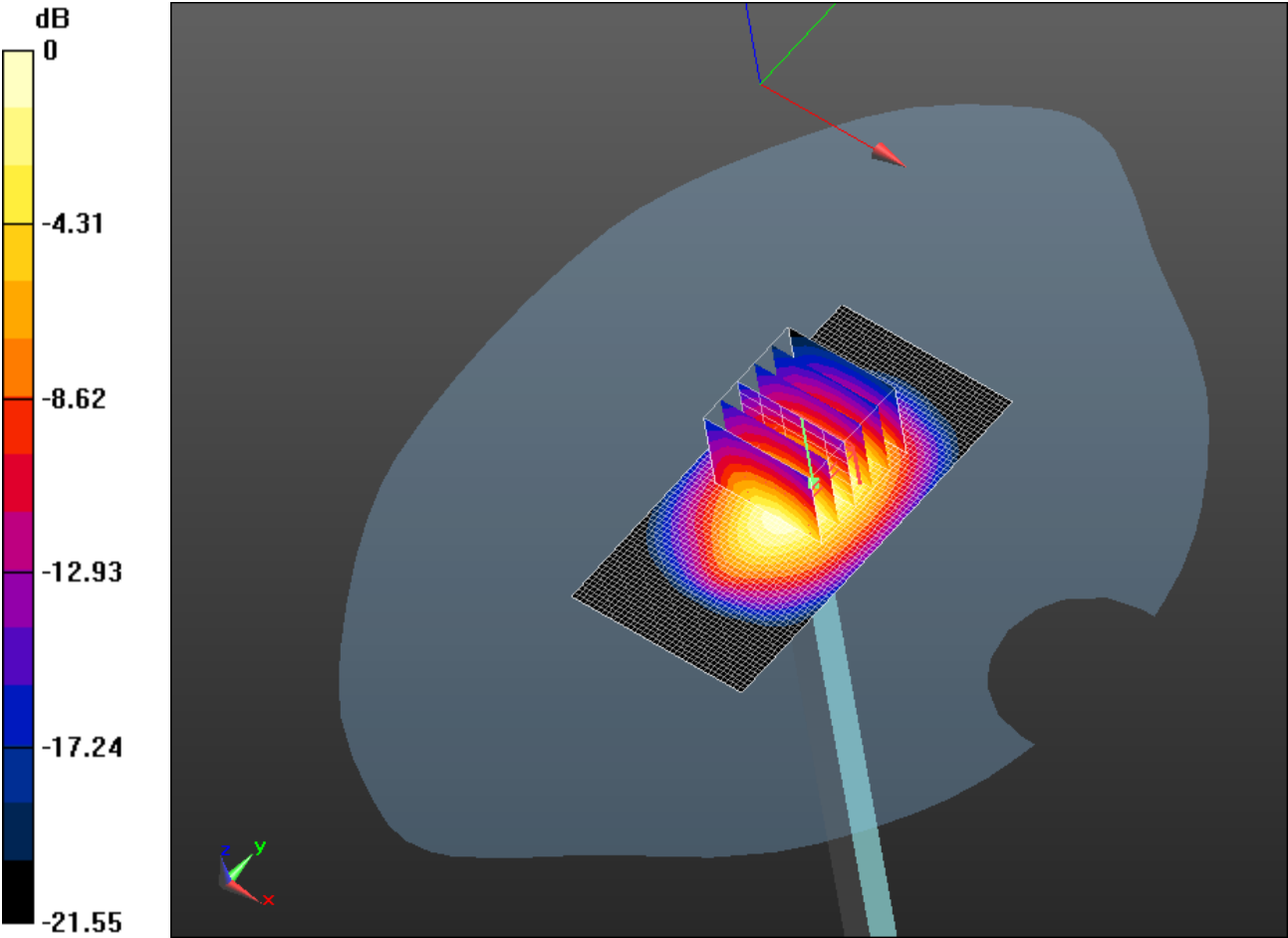
0: Measurement grid: $dx=7.5$ mm, $dy=7.5$ mm, $dz=5$ mm

Reference Value = 180.6 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 61.9 W/kg

SAR(1 g) = 37.2 W/kg; SAR(10 g) = 20.1 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 41.5 W/kg



0 dB = 41.5 W/kg = 16.18 dBW/kg

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Author Data Andrew Becker	Dates of Test April 15 – June 13, 2014	Test Report No RTS-6057-1405-01	FCC ID: L6ARGY180LW	

Date/Time: 6/3/2014 5:11:53 PM

Test Laboratory: BlackBerry RTS

DipoleValidation_1900MHz_06_03_14_Amb_Tem_23.6C_Liq_Tem_22.7 C

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:545

Communication System: UID 0, CW; Frequency: 1900 MHz

Medium parameters used: $f = 1900 \text{ MHz}$; $\sigma = 1.375 \text{ S/m}$; $\epsilon_r = 39.792$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ET3DV6 - SN1643; ConvF(5.17, 5.17, 5.17); Calibrated: 3/10/2014;
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 2.7, 32.7$
- Electronics: DAE3 Sn472; Calibrated: 3/18/2014
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Configuration/d=10mm, Pin=1000mW/Area Scan (41x81x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Reference Value = 181.7 V/m; Power Drift = -0.08 dB

Fast SAR: SAR(1 g) = 37.3 W/kg; SAR(10 g) = 19.8 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 42.3 W/kg

Configuration/d=10mm, Pin=1000mW/Zoom Scan (5x5x7) (6x6x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 181.7 V/m; Power Drift = -0.08 dB

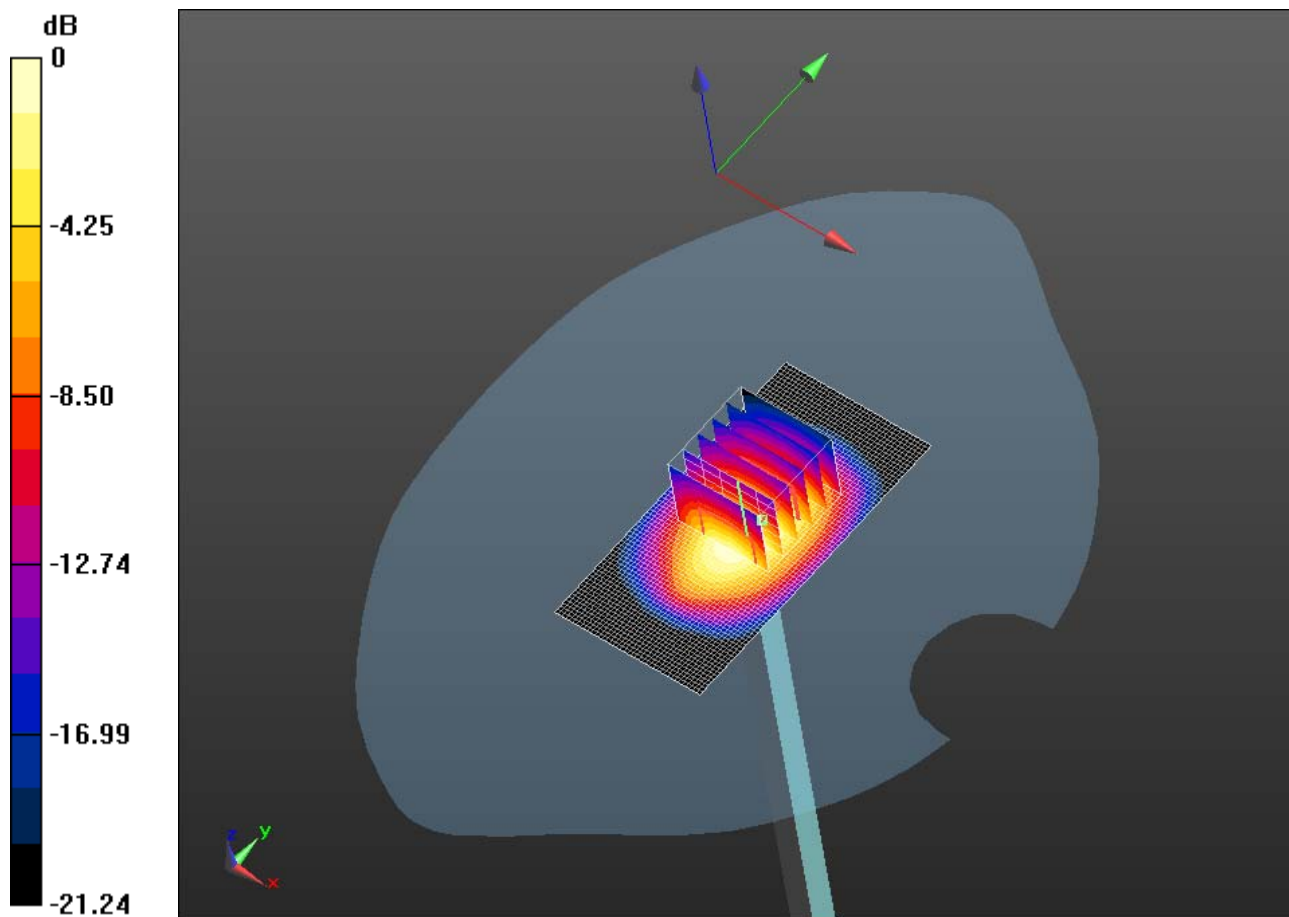
Peak SAR (extrapolated) = 60.2 W/kg

SAR(1 g) = 36.3 W/kg; SAR(10 g) = 19.5 W/kg (SAR corrected for target

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Author Data Andrew Becker	Dates of Test April 15 – June 13, 2014	Test Report No RTS-6057-1405-01	FCC ID: L6ARGY180LW	

medium)

Maximum value of SAR (measured) = 39.8 W/kg



0 dB = 39.8 W/kg = 16.00 dBW/kg

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Author Data Andrew Becker	Dates of Test April 15 – June 13, 2014	Test Report No RTS-6057-1405-01	FCC ID: L6ARGY180LW	

Date/Time: 5/16/2014 8:17:31 PM

Test Laboratory: BlackBerry RTS

DipoleValidation_2450MHz_05_16_14_Amb_Tem_24.1C_Liq_Tem_22.0C

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:747

Communication System: UID 0, CW; Frequency: 2450 MHz

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.856$ S/m; $\epsilon_r = 37.728$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.64, 4.64, 4.64); Calibrated: 1/22/2014;
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn472; Calibrated: 3/18/2014
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Dipole Validation 2.45GHz/RF ON_d=10mm, Pin=1000 mW, dist=3.0mm (ES-Probe)/Area Scan (41x71x1):

Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

Reference Value = 206.5 V/m; Power Drift = 0.00 dB

Fast SAR: SAR(1 g) = 56.2 W/kg; SAR(10 g) = 24.7 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 77.2 W/kg

Dipole Validation 2.45GHz/RF ON_d=10mm, Pin=1000 mW, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7) (7x7x7)/Cube 0:

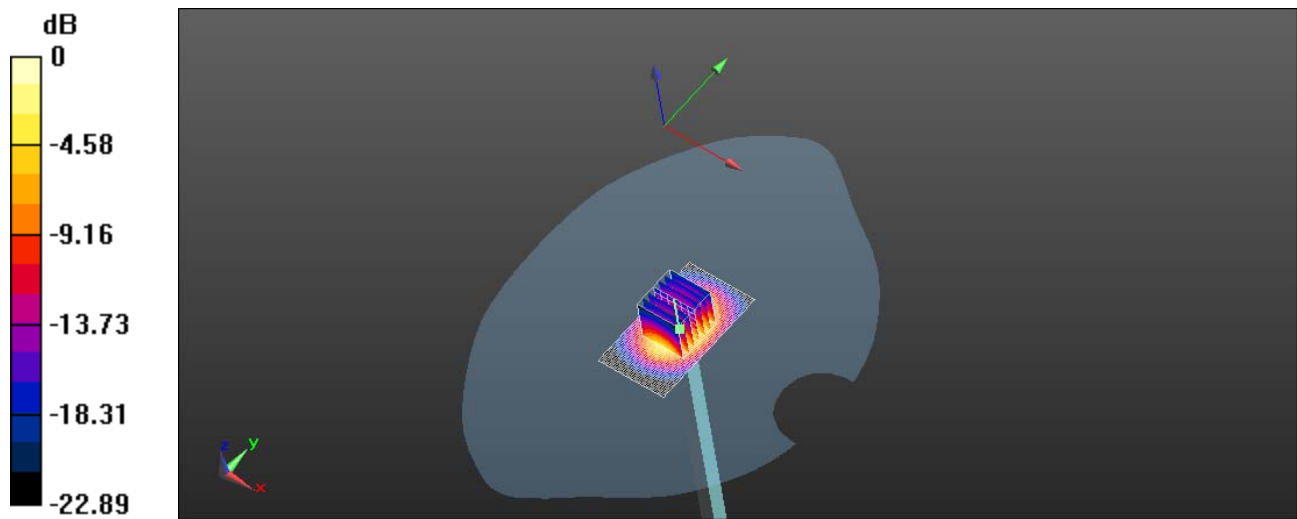
Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 206.5 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 118 W/kg

SAR(1 g) = 56.4 W/kg; SAR(10 g) = 26.1 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 73.9 W/kg



0 dB = 73.9 W/kg = 18.69 dBW/kg

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Author Data Andrew Becker	Dates of Test April 15 – June 13, 2014	Test Report No RTS-6057-1405-01	FCC ID: L6ARGY180LW	

Date/Time: 5/20/2014 4:45:14 PM

Test Laboratory: BlackBerry RTS

DipoleValidation_2450MHz_05_20_14_Amb_Tem_24.1C_Liq_Tem_22.1C

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:791

Communication System: UID 0, CW; Frequency: 2450 MHz

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.836$ S/m; $\epsilon_r = 37.666$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.64, 4.64, 4.64); Calibrated: 1/22/2014;
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn472; Calibrated: 3/18/2014
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Dipole Validation 2.45GHz/RF ON_d=10mm, Pin=1000 mW, dist=3.0mm (ES-Probe)/Area Scan (41x71x1):

Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

Reference Value = 207.8 V/m; Power Drift = -0.01 dB

Fast SAR: SAR(1 g) = 56.6 W/kg; SAR(10 g) = 24.7 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 76.5 W/kg

Dipole Validation 2.45GHz/RF ON_d=10mm, Pin=1000 mW, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7) (7x7x7)/Cube 0:

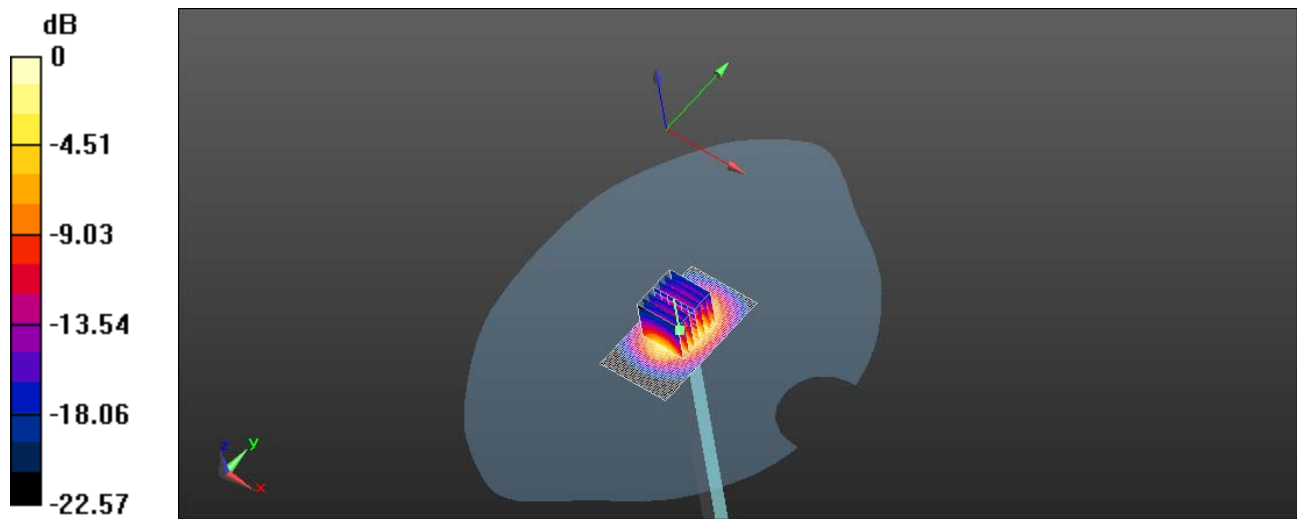
Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 207.8 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 118 W/kg

SAR(1 g) = 56.7 W/kg; SAR(10 g) = 26.3 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 74.3 W/kg



0 dB = 74.3 W/kg = 18.71 dBW/kg

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Author Data Andrew Becker	Dates of Test April 15 – June 13, 2014	Test Report No RTS-6057-1405-01	FCC ID: L6ARGY180LW	

Date/Time: 5/21/2014 6:34:21 PM

Test Laboratory: BlackBerry RTS

DipoleValidation_2600MHz_05_21_14_Amb_Tem_23.5C_Liq_Tem_21.9C

DUT: Dipole 2600 MHz; Type: D2600V2; Serial: D2600V2 - SN:1033

Communication System: UID 0, CW; Communication System Band: D2600 (2600.0 MHz); Frequency: 2600 MHz; Communication System PAR: 0 dB; PMF: 1.12202e-005
Medium parameters used: $f = 2600$ MHz; $\sigma = 1.994$ S/m; $\epsilon_r = 37.122$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.33, 4.33, 4.33); Calibrated: 1/22/2014;
 - Modulation Compensation:
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn472; Calibrated: 3/18/2014
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASYS 52.8.7(1137); SEMCAD X 14.6.10(7164)

System Performance Check at Frequencies between 2 GHz - 3 GHz/RF

ON_d=10mm, Pin=1000mW, dist=3.0mm (ES-Probe) 2/Area Scan

(81x71x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

Reference Value = 210.1 V/m; Power Drift = 0.00 dB

Fast SAR: SAR(1 g) = 64 W/kg; SAR(10 g) = 28.9 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 85.1 W/kg

System Performance Check at Frequencies between 2 GHz - 3 GHz/RF

ON_d=10mm, Pin=1000mW, dist=3.0mm (ES-Probe) 2/Zoom Scan (7x7x7)

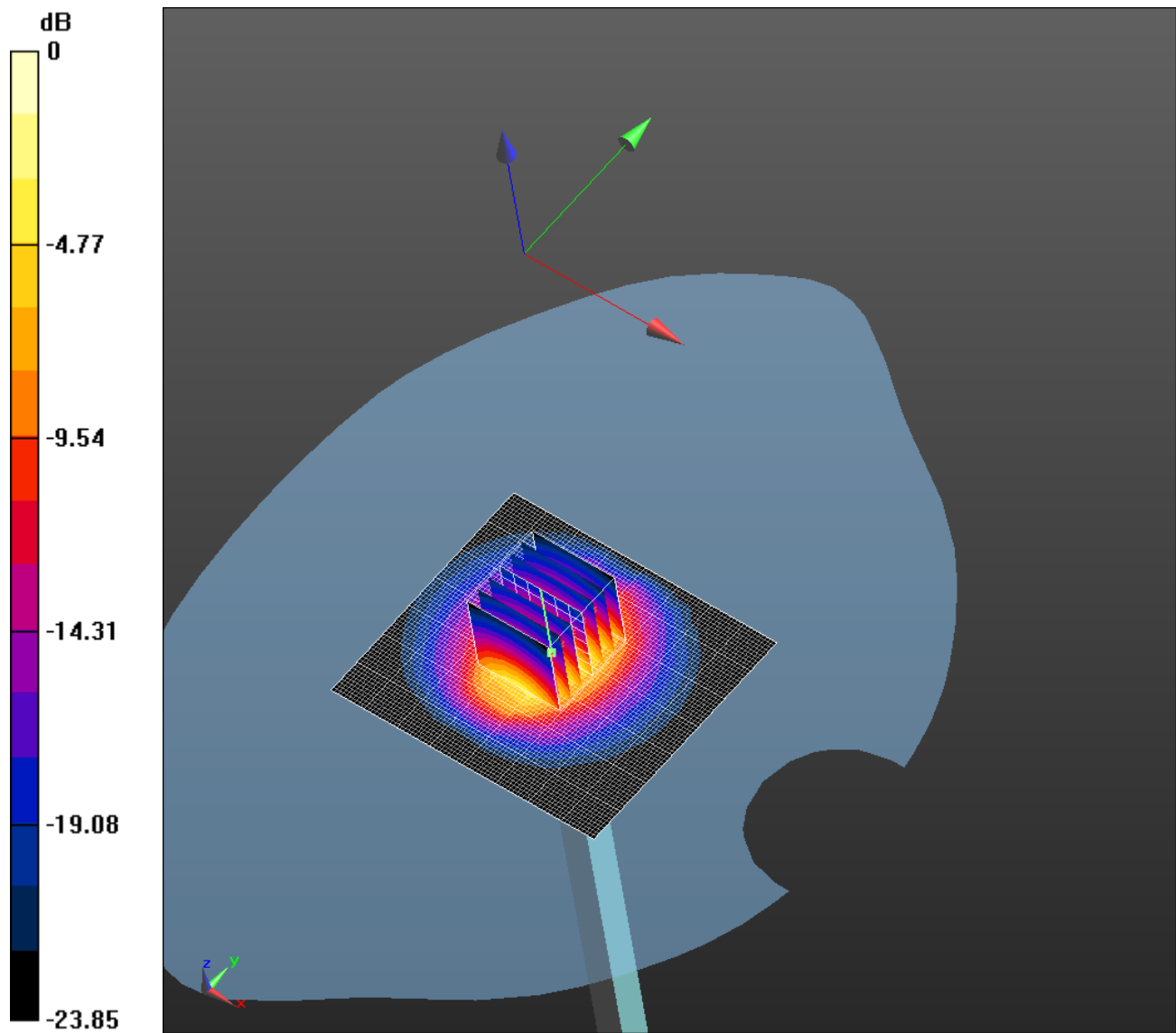
(7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 210.1 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 136 W/kg

SAR(1 g) = 62.8 W/kg; SAR(10 g) = 27.9 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 84.6 W/kg



0 dB = 84.6 W/kg = 19.27 dBW/kg

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Author Data Andrew Becker	Dates of Test April 15 – June 13, 2014	Test Report No RTS-6057-1405-01	FCC ID: L6ARGY180LW	

Date/Time: 6/5/2014 12:00:13 AM

Test Laboratory: BlackBerry RTS

DipoleValidation_2600MHz_06_05_14_Amb_Tem_24.3C_Liq_Tem_22.4C

DUT: Dipole 2600 MHz; Type: D2600V2; Serial: D2600V2 - SN:1033

Communication System: UID 0, CW; Frequency: 2600 MHz

Medium parameters used: $f = 2600$ MHz; $\sigma = 1.991$ S/m; $\epsilon_r = 37.292$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.33, 4.33, 4.33); Calibrated: 1/22/2014;
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn472; Calibrated: 3/18/2014
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

System Performance Check at Frequencies between 2 GHz - 3

GHz/d=10mm, Pin=1000mW, dist=3.0mm (ES-Probe) 2/Area Scan

(81x71x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

Reference Value = 206.1 V/m; Power Drift = 0.00 dB

Fast SAR: SAR(1 g) = 63.8 W/kg; SAR(10 g) = 28.5 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 84.5 W/kg

System Performance Check at Frequencies between 2 GHz - 3

GHz/d=10mm, Pin=1000mW, dist=3.0mm (ES-Probe) 2/Zoom Scan

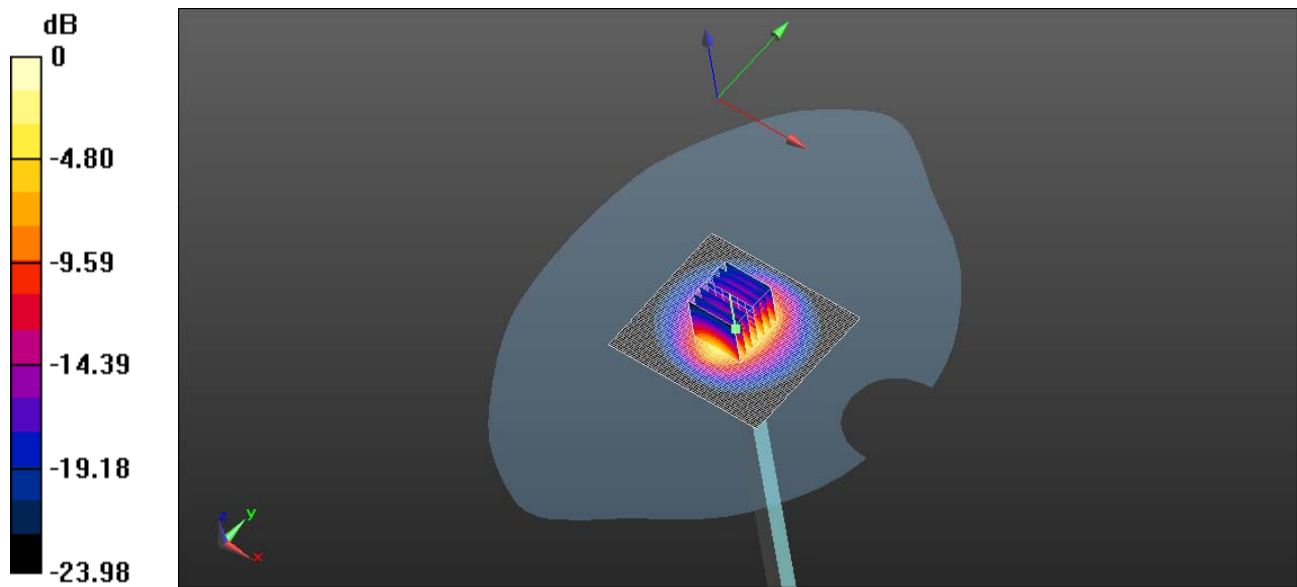
(7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 206.1 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 133 W/kg

SAR(1 g) = 62.2 W/kg; SAR(10 g) = 27.9 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 82.6 W/kg



0 dB = 82.6 W/kg = 19.17 dBW/kg

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Author Data Andrew Becker	Dates of Test April 15 – June 13, 2014	Test Report No RTS-6057-1405-01	FCC ID: L6ARGY180LW	

Date/Time: 5/26/2014 2:37:39 PM

Test Laboratory: BlackBerry RTS

DipoleValidation_5200MHz_05_26_14_Amb_Tem_23.0C_Liq_Tem_21.4C

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN 1033

Communication System: UID 0, CW (0); Frequency: 5200 MHz

Medium parameters used: $f = 5200$ MHz; $\sigma = 4.71$ S/m; $\epsilon_r = 34.705$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY Configuration:

- Probe: EX3DV4 - SN3548; ConvF(5.37, 5.37, 5.37); Calibrated: 1/17/2014;
- Sensor-Surface: 2mm (Mechanical Surface Detection), $z = 1.0, 23.0$
- Electronics: DAE3 Sn472; Calibrated: 3/18/2014
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

System Performance Check at Frequency 5.2 GHz/d=10mm,

Pin=1000mW, dist=2.0mm (EX-Probe)/Area Scan (61x91x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm

Reference Value = 191.5 V/m; Power Drift = 0.04 dB

Fast SAR: SAR(1 g) = 77.3 W/kg; SAR(10 g) = 21.5 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 173 W/kg

System Performance Check at Frequency 5.2 GHz/d=10mm,

Pin=1000mW, dist=2.0mm (EX-Probe)/Zoom Scan (7x7x12)

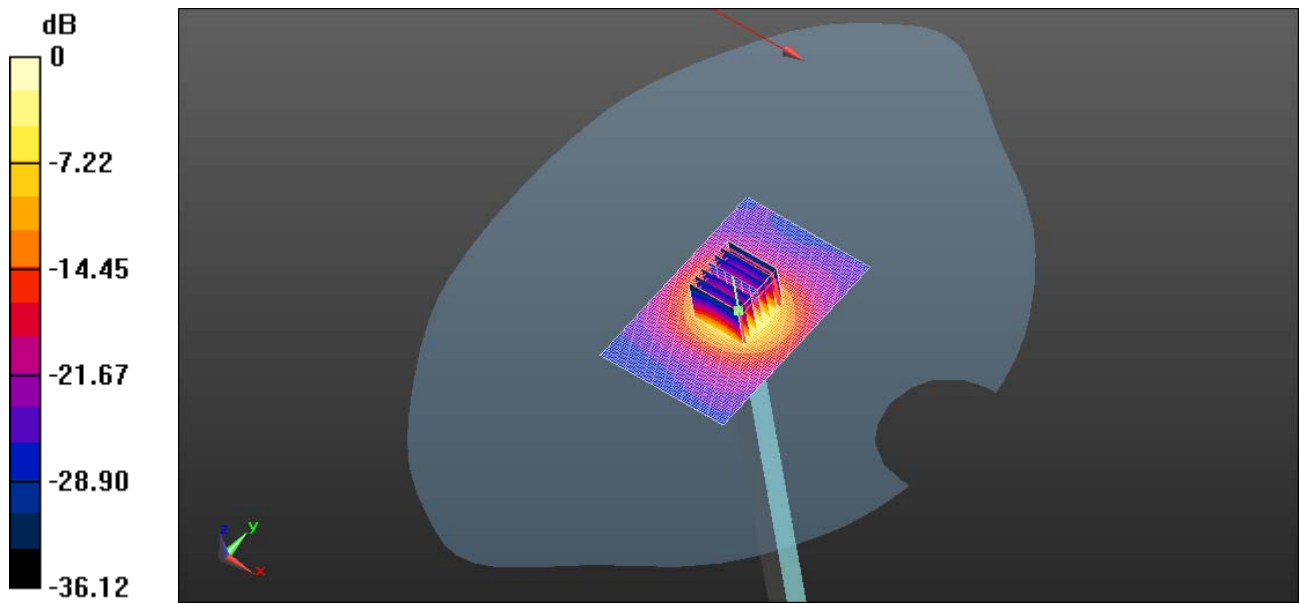
(7x7x12)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 191.5 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 324 W/kg

SAR(1 g) = 80.6 W/kg; SAR(10 g) = 23.4 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 167 W/kg



0 dB = 167 W/kg = 22.23 dBW/kg

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Author Data Andrew Becker	Dates of Test April 15 – June 13, 2014	Test Report No RTS-6057-1405-01	FCC ID: L6ARGY180LW	

Date/Time: 5/26/2014 2:13:15 PM

Test Laboratory: BlackBerry RTS

DipoleValidation_5500MHz_05_26_14_Amb_Tem_23.0C_Liq_Tem_21.4C

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN 1033

Communication System: UID 0, CW (0); Frequency: 5500 MHz

Medium parameters used: $f = 5500$ MHz; $\sigma = 5.081$ S/m; $\epsilon_r = 34.16$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY Configuration:

- Probe: EX3DV4 - SN3548; ConvF(4.94, 4.94, 4.94); Calibrated: 1/17/2014;
- Sensor-Surface: 2mm (Mechanical Surface Detection), $z = 1.0, 23.0$
- Electronics: DAE3 Sn472; Calibrated: 3/18/2014
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

System Performance Check at Frequency 5.5 GHz/d=10mm,

Pin=1000mW, dist=2.0mm (EX-Probe)/Area Scan (61x91x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm

Reference Value = 191.5 V/m; Power Drift = 0.04 dB

Fast SAR: SAR(1 g) = 88.2 W/kg; SAR(10 g) = 24.4 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 203 W/kg

System Performance Check at Frequency 5.5 GHz/d=10mm,

Pin=1000mW, dist=2.0mm (EX-Probe)/Zoom Scan (7x7x12)

(7x7x12)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

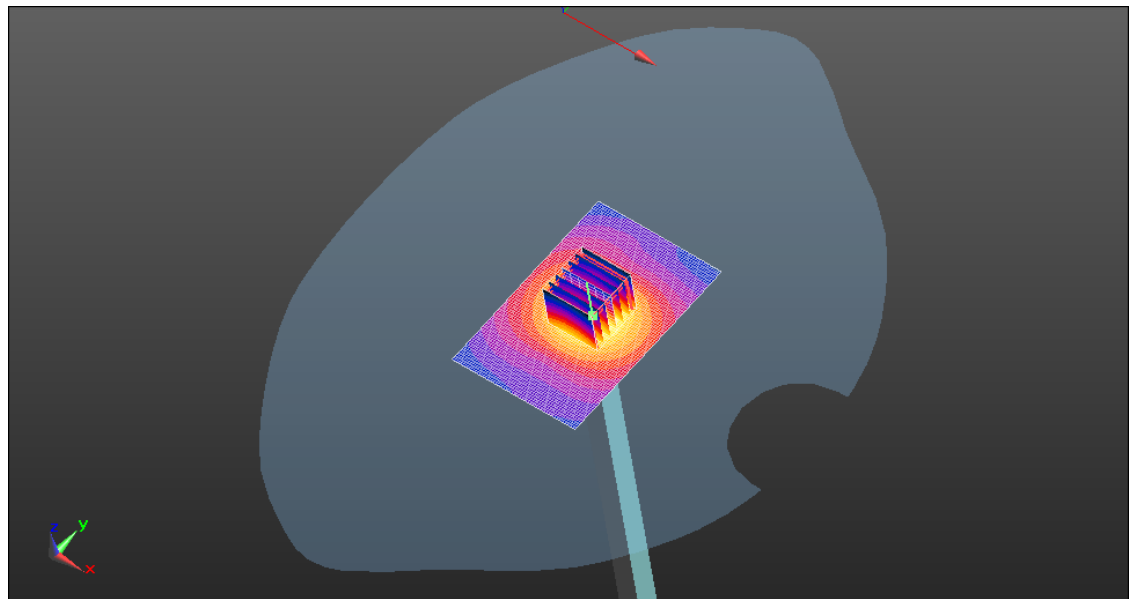
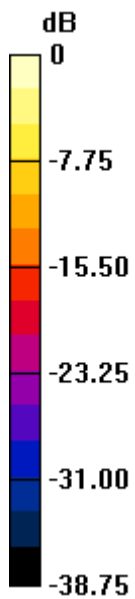
Reference Value = 191.5 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 423 W/kg

SAR(1 g) = 94.5 W/kg; SAR(10 g) = 26.9 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 199 W/kg

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0 dB = 199 W/kg = 22.99 dBW/kg

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Author Data Andrew Becker	Dates of Test April 15 – June 13, 2014	Test Report No RTS-6057-1405-01	FCC ID: L6ARGY180LW	

Date/Time: 5/26/2014 1:43:42 PM

Test Laboratory: BlackBerry RTS

DipoleValidation_5800MHz_05_26_14_Amb_Tem_23.0C_Liq_Tem_21.4C

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN 1033

Communication System: UID 0, CW (0); Frequency: 5800 MHz

Medium parameters used: $f = 5800$ MHz; $\sigma = 5.388$ S/m; $\epsilon_r = 33.557$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY Configuration:

- Probe: EX3DV4 - SN3548; ConvF(4.76, 4.76, 4.76); Calibrated: 1/17/2014;
- Sensor-Surface: 2mm (Mechanical Surface Detection), $z = 1.0, 23.0$
- Electronics: DAE3 Sn472; Calibrated: 3/18/2014
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

System Performance Check at Frequency 5.8 GHz/d=10mm,

Pin=1000mW, dist=2.0mm (EX-Probe)/Area Scan (61x91x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm

Reference Value = 191.5 V/m; Power Drift = 0.04 dB

Fast SAR: SAR(1 g) = 80.4 W/kg; SAR(10 g) = 22.1 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 186 W/kg

System Performance Check at Frequency 5.8 GHz/d=10mm,

Pin=1000mW, dist=2.0mm (EX-Probe)/Zoom Scan (7x7x12)

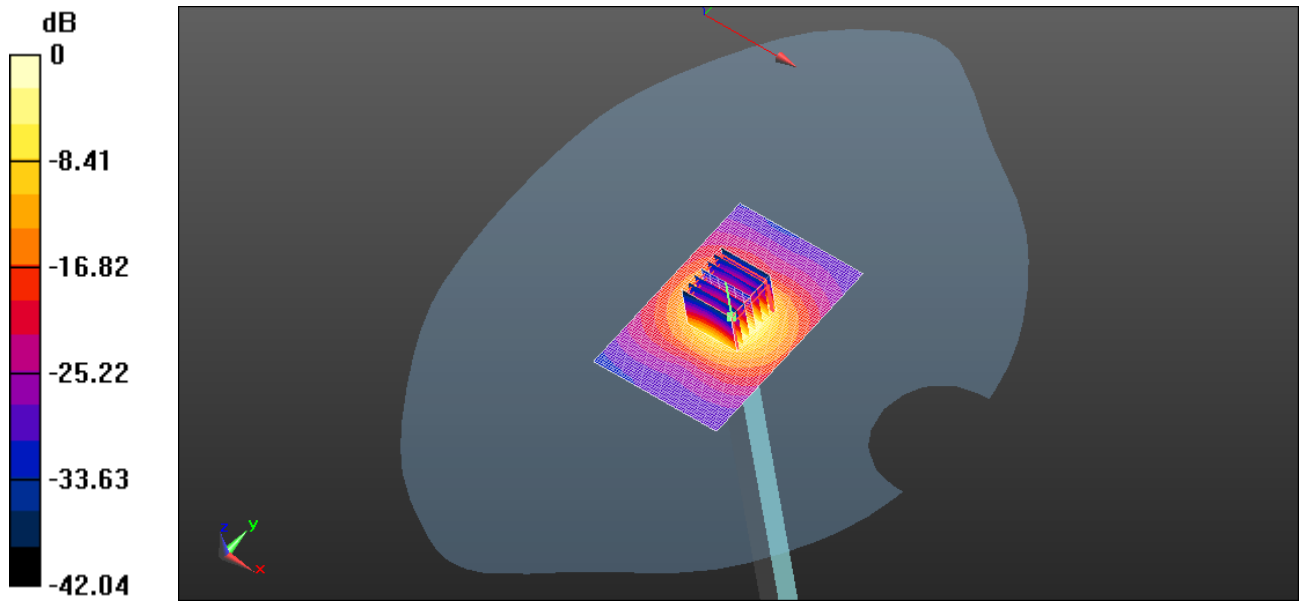
(7x7x12)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 191.5 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 373 W/kg

SAR(1 g) = 85.4 W/kg; SAR(10 g) = 24.3 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 179 W/kg



0 dB = 179 W/kg = 22.53 dBW/kg