

Applicant	Kyocera
FCC ID:	V65C5120
Report #:	CT-C5120-9B2-0711-R0

EXHIBIT 9 APPENDIX B2: SAR DISTRIBUTION PLOTS (BODY)

## CELL-BC10

Applicant	Kyocera
FCC ID:	V65C5120
Report #:	CT-C5120-9B2-0711-R0

Test Laboratory: Comptest/Kyocera

Date: 07/07/2011

**FCC C5120 CDMA-800 BC-10 Flat with 15mm Air Space, Face-Down Ch. 684, Closed**

Communication System: Cell BC-10, Frequency: 823.1 MHz, Duty Cycle: 1:1

 Medium: M800, Medium parameters used (interpolated):  $f = 823.1$  MHz;  $\sigma = 0.94$  mho/m;  $\epsilon_r = 53.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom: SAM 12, Phantom section: Flat Section

**DASY4 Configuration:**

Probe: ES3DV3 - SN3078, ConvF(5.82, 5.82, 5.82), Calibrated: 7/14/2010

Sensor-Surface: 4mm (Mechanical Surface Detection),

Electronics: DAE4 Sn602, Calibrated: 7/14/2010

Measurement SW: DASY4, V4.7 Build 80

Postprocessing SW: SEMCAD, V1.8 Build 186

**Temperature:**

Room T = 21.8 1 deg C, Liquid T = 22.0 1 deg C

**CDMA-800 FLAT Face-Down Ch684 SO32/Area Scan (51x101x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.812 mW/g

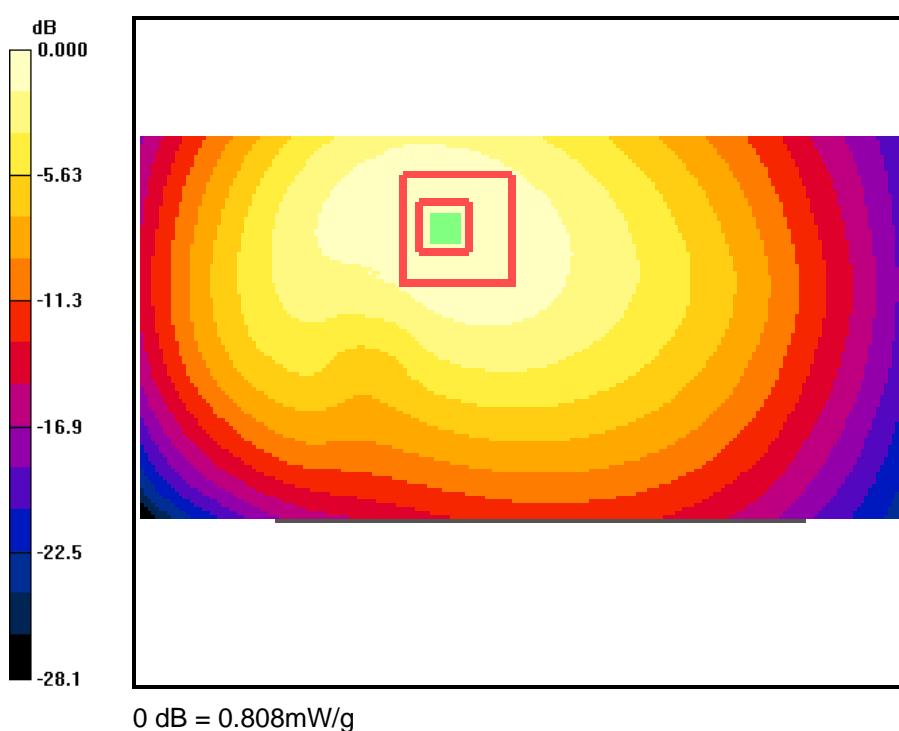
**CDMA-800 FLAT Face-Down Ch684 SO32/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 19.8 V/m; Power Drift = -0.133 dB

Peak SAR (extrapolated) = 1.06 W/kg

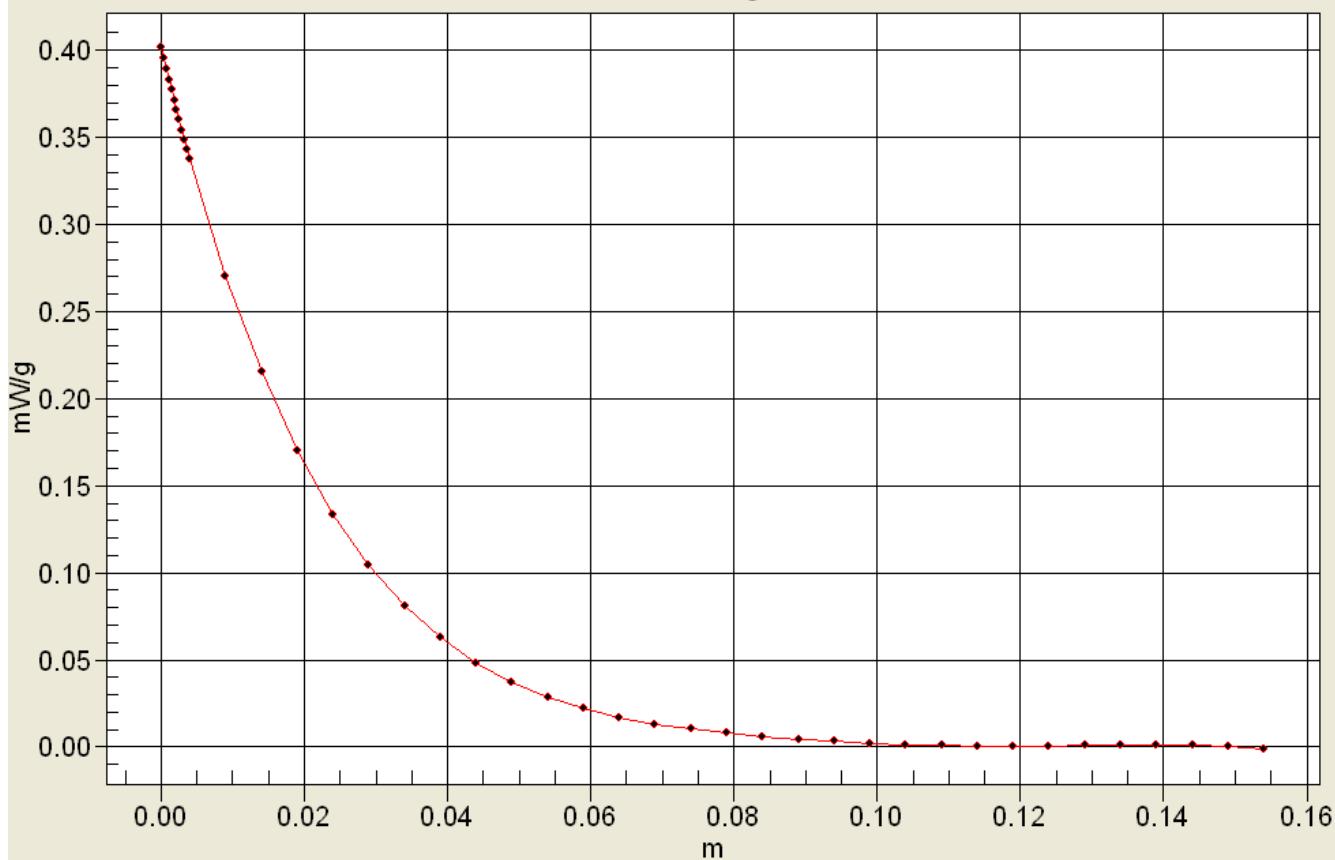
**SAR(1 g) = 0.757 mW/g; SAR(10 g) = 0.516 mW/g**

Maximum value of SAR (measured) = 0.808 mW/g



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**Interpolated SAR(x,y,z,f0)**  
 SAR; Z Scan: Value Along Z, X=0, Y=0



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Test Laboratory: Comptest/Kyocera

Date: 07/07/2011

**FCC C5120 CDMA-800 BC-10 Flat with 15mm Air Space, Face-Up Ch. 684, Closed**

Communication System: Cell BC-10, Frequency: 823.1 MHz, Duty Cycle: 1:1

 Medium: M800, Medium parameters used (interpolated):  $f = 823.1$  MHz;  $\sigma = 0.94$  mho/m;  $\epsilon_r = 53.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom: SAM 12, Phantom section: Flat Section

**DASY4 Configuration:**

Probe: ES3DV3 - SN3078, ConvF(5.82, 5.82, 5.82), Calibrated: 7/14/2010

Sensor-Surface: 4mm (Mechanical Surface Detection),

Electronics: DAE4 Sn602, Calibrated: 7/14/2010

Measurement SW: DASY4, V4.7 Build 80

Postprocessing SW: SEMCAD, V1.8 Build 186

**Temperature:**

Room T = 21.8 1 deg C, Liquid T = 22.0 1 deg C

**CDMA-800 FLAT Face-Up Ch684 SO32/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.304 mW/g

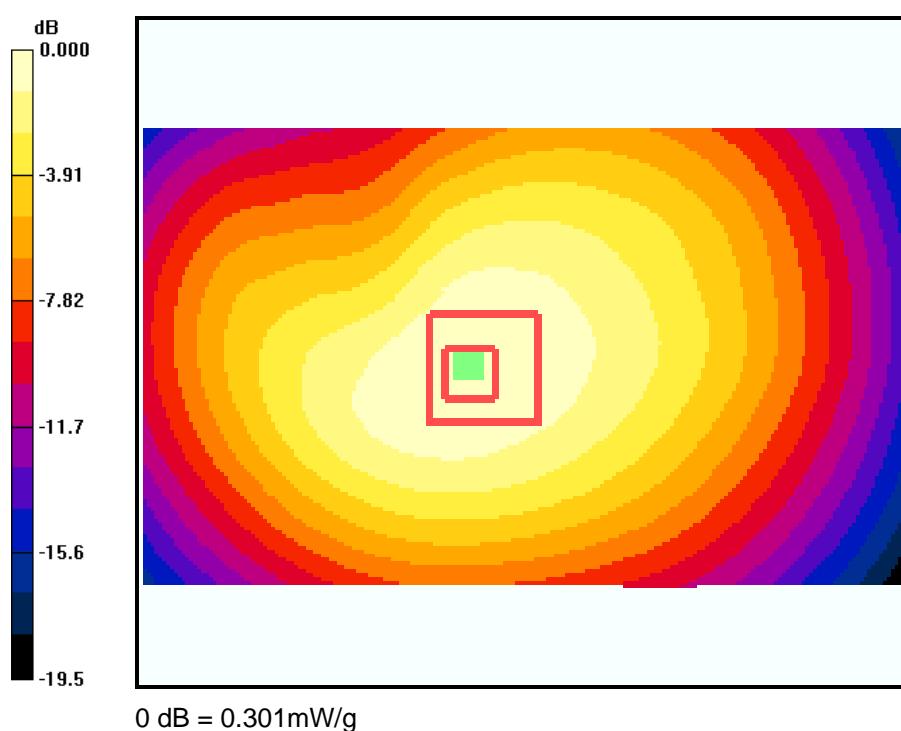
**CDMA-800 FLAT Face-Up Ch684 SO32/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 16.7 V/m; Power Drift = 0.060 dB

Peak SAR (extrapolated) = 0.384 W/kg

**SAR(1 g) = 0.285 mW/g; SAR(10 g) = 0.204 mW/g**

Maximum value of SAR (measured) = 0.301 mW/g



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Date: 07/07/2011

**FCC C5120 CDMA-800 BC-10 Flat with 15mm Air Space, Face-Down Ch. 684, Open**

Communication System: Cell BC-10, Frequency: 823.1 MHz, Duty Cycle: 1:1

 Medium: M800, Medium parameters used (interpolated):  $f = 823.1$  MHz;  $\sigma = 0.94$  mho/m;  $\epsilon_r = 53.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom: SAM 12, Phantom section: Flat Section

**DASY4 Configuration:**

Probe: ES3DV3 - SN3078, ConvF(5.82, 5.82, 5.82), Calibrated: 7/14/2010

Sensor-Surface: 4mm (Mechanical Surface Detection),

Electronics: DAE4 Sn602, Calibrated: 7/14/2010

Measurement SW: DASY4, V4.7 Build 80

Postprocessing SW: SEMCAD, V1.8 Build 186

**Temperature:**

Room T = 21.8 ± 1 deg C, Liquid T = 22.0 ± 1 deg C

**CDMA-800 FLAT Face-Down Ch684 SO32/Area Scan (81x101x1):** Measurement grid: dx=15mm, dy=15mm  
 Maximum value of SAR (interpolated) = 0.694 mW/g

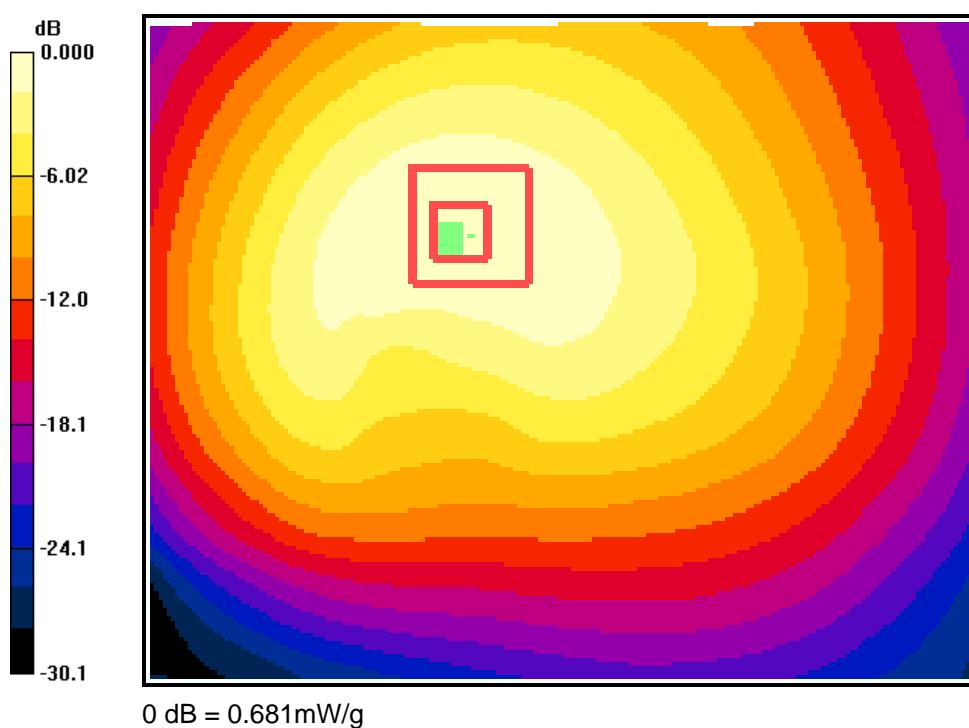
**CDMA-800 FLAT Face-Down Ch684 SO32/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 20.7 V/m; Power Drift = -0.095 dB

Peak SAR (extrapolated) = 0.920 W/kg

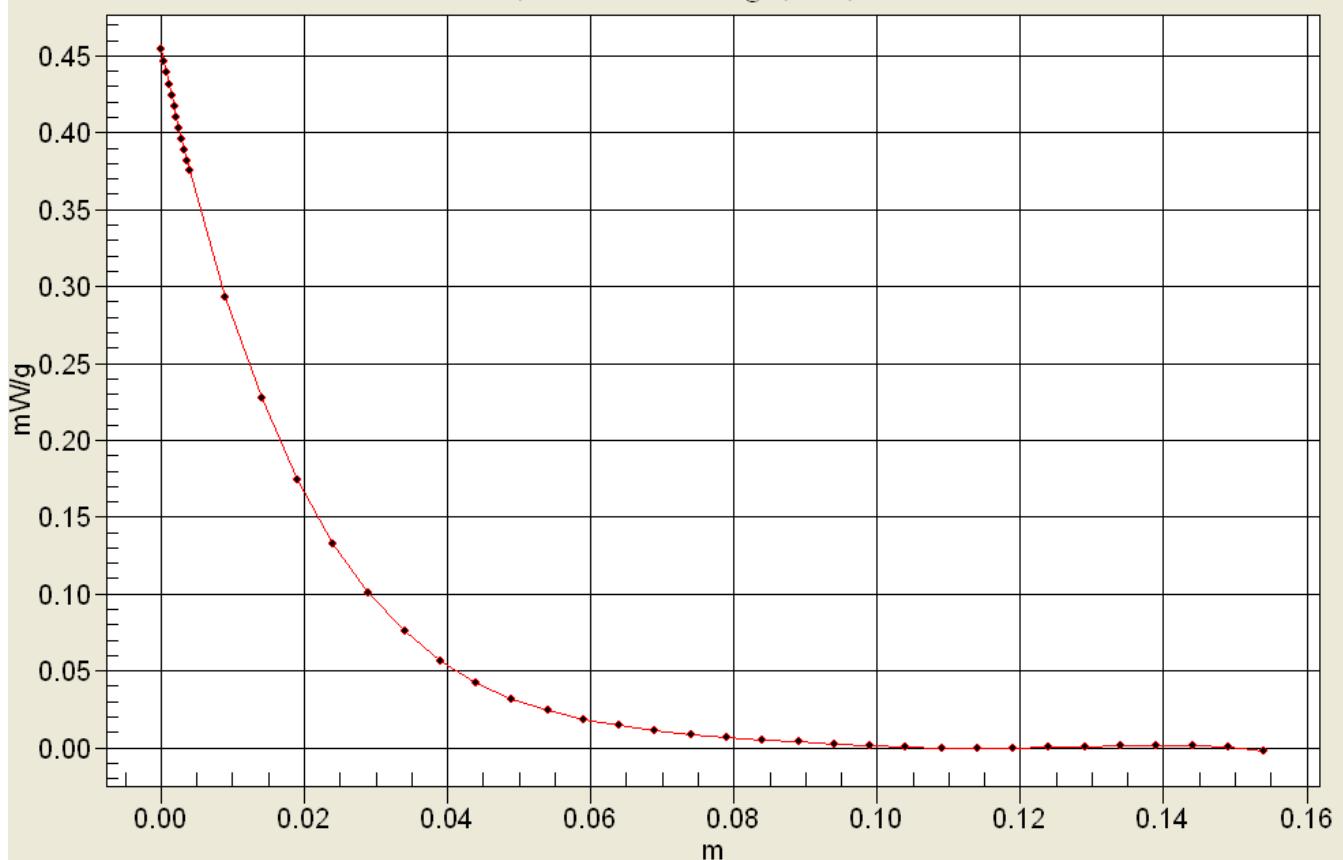
**SAR(1 g) = 0.635 mW/g; SAR(10 g) = 0.429 mW/g**

Maximum value of SAR (measured) = 0.681 mW/g



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**Interpolated SAR(x,y,z,f0)**  
 SAR; Z Scan: Value Along Z, X=0, Y=0



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Test Laboratory: Comptest/Kyocera

Date: 07/07/2011

**FCC C5120 CDMA-800 BC-10 Flat with 15mm Air Space, Face-Up Ch. 684, Open**

Communication System: Cell BC-10, Frequency: 823.1 MHz, Duty Cycle: 1:1

 Medium: M800, Medium parameters used (interpolated):  $f = 823.1$  MHz;  $\sigma = 0.94$  mho/m;  $\epsilon_r = 53.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom: SAM 12, Phantom section: Flat Section

**DASY4 Configuration:**

Probe: ES3DV3 - SN3078, ConvF(5.82, 5.82, 5.82), Calibrated: 7/14/2010

Sensor-Surface: 4mm (Mechanical Surface Detection),

Electronics: DAE4 Sn602, Calibrated: 7/14/2010

Measurement SW: DASY4, V4.7 Build 80

Postprocessing SW: SEMCAD, V1.8 Build 186

**Temperature:**

Room T = 21.8 ± 1 deg C, Liquid T = 22.0 ± 1 deg C

**CDMA-800 FLAT Face-Up Ch684 SO32/Area Scan (81x101x1):** Measurement grid: dx=15mm, dy=15mm  
 Maximum value of SAR (interpolated) = 0.384 mW/g

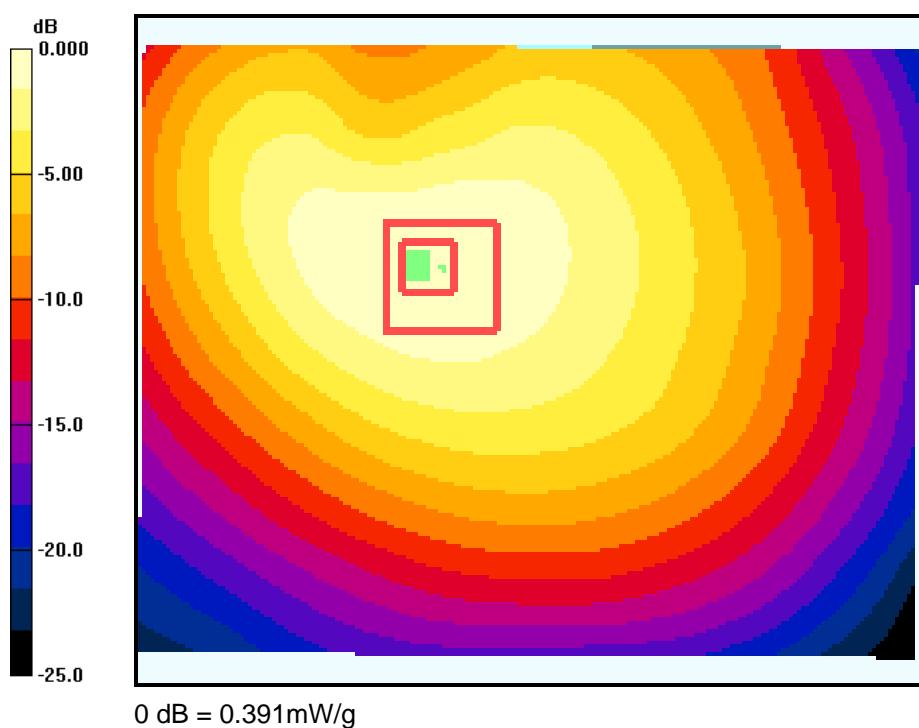
**CDMA-800 FLAT Face-Up Ch684 SO32/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 16.0 V/m; Power Drift = 0.124 dB

Peak SAR (extrapolated) = 0.511 W/kg

**SAR(1 g) = 0.369 mW/g; SAR(10 g) = 0.260 mW/g**

Maximum value of SAR (measured) = 0.391 mW/g



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**PCS**

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Test Laboratory: Comptest/Kyocera

Date: 07/09/2011

**FCC C5120 PCS Flat with 15mm Air Space, Face Down Ch. 600, Closed**

Communication System: CDMA-1900, Frequency: 1880 MHz, Duty Cycle: 1:1

 Medium: M1800, Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.49$  mho/m;  $\epsilon_r = 51.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom: SAM 12, Phantom section: Flat Section

**DASY4 Configuration:**

Probe: ES3DV3 - SN3035, ConvF(4.5, 4.5, 4.5), Calibrated: 9/9/2010

Sensor-Surface: 4mm (Mechanical Surface Detection),

Electronics: DAE4 Sn675, Calibrated: 5/5/2011

Measurement SW: DASY4, V4.7 Build 80

Postprocessing SW: SEMCAD, V1.8 Build 186

**Temperature:**

Room T = 21.8 +/- 1 deg C, Liquid T = 22.0 +/- 1 deg C

**CDMA-1900 FLAT - Face Down Ch600/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.757 mW/g

**CDMA-1900 FLAT - Face Down Ch600/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm,

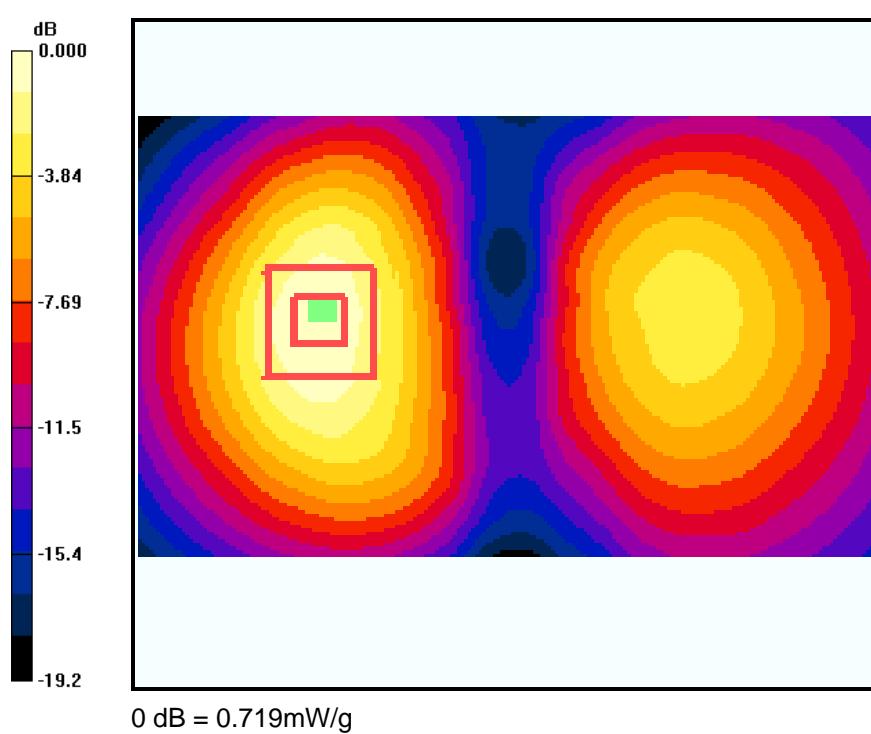
dz=5mm

Reference Value = 4.94 V/m; Power Drift = -0.040 dB

Peak SAR (extrapolated) = 0.985 W/kg

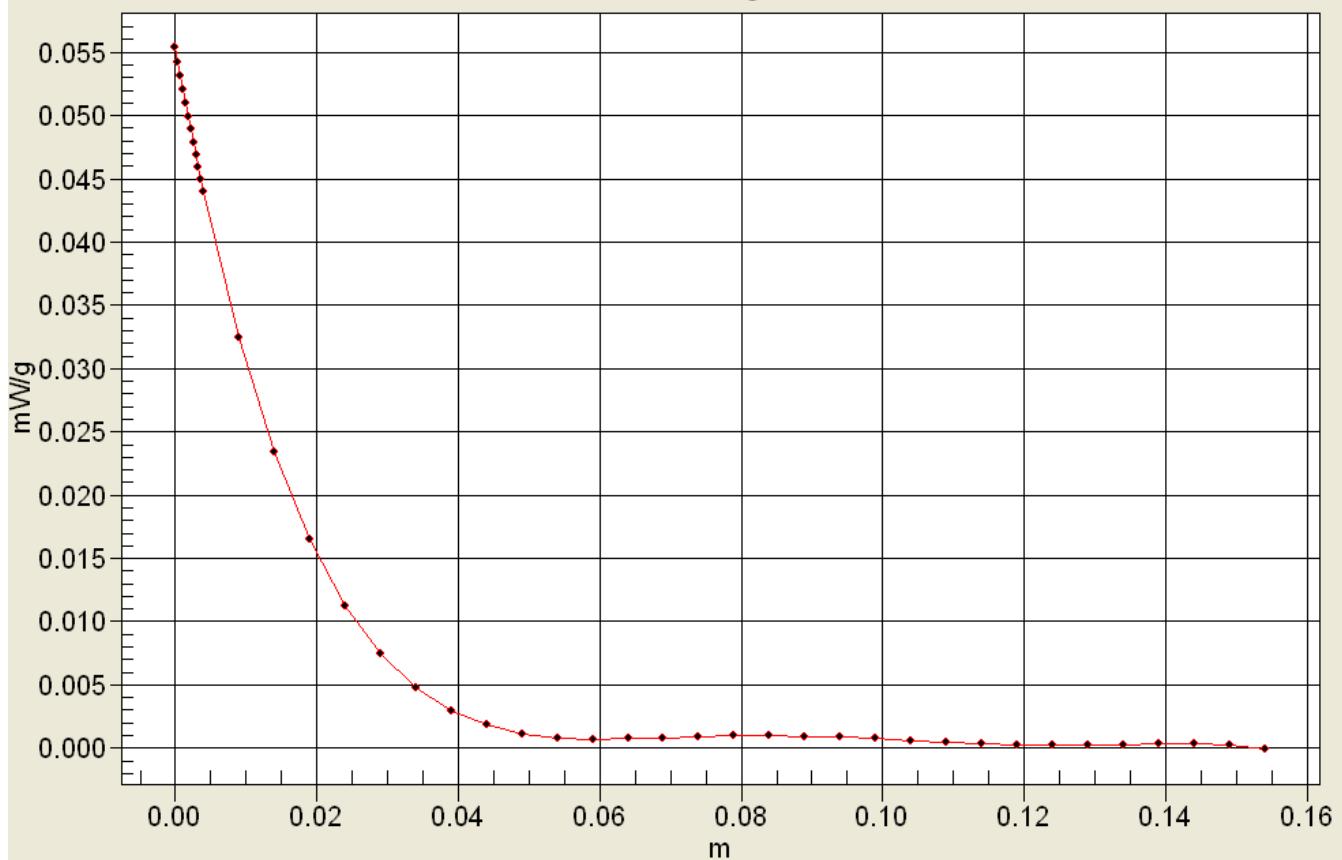
**SAR(1 g) = 0.654 mW/g; SAR(10 g) = 0.392 mW/g**

Maximum value of SAR (measured) = 0.719 mW/g



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**Interpolated SAR(x,y,z,f0)**  
 SAR; Z Scan: Value Along Z, X=0, Y=0



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Test Laboratory: Comptest/Kyocera

Date: 07/09/2011

**FCC C5120 PCS Flat with 15mm Air Space, Face Up Ch. 600, Closed**

Communication System: CDMA-1900, Frequency: 1880 MHz, Duty Cycle: 1:1

 Medium: M1800, Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.49$  mho/m;  $\epsilon_r = 51.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom: SAM 12, Phantom section: Flat Section

**DASY4 Configuration:**

Probe: ES3DV3 - SN3035, ConvF(4.5, 4.5, 4.5), Calibrated: 9/9/2010

Sensor-Surface: 4mm (Mechanical Surface Detection),

Electronics: DAE4 Sn675, Calibrated: 5/5/2011

Measurement SW: DASY4, V4.7 Build 80

Postprocessing SW: SEMCAD, V1.8 Build 186

**Temperature:**

Room T = 21.8 +/- 1 deg C, Liquid T = 22.0 +/- 1 deg C

**CDMA-1900 FLAT - Face Up Ch600/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.179 mW/g

**CDMA-1900 FLAT - Face Up Ch600/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.26 V/m; Power Drift = 0.077 dB

Peak SAR (extrapolated) = 0.253 W/kg

**SAR(1 g) = 0.169 mW/g; SAR(10 g) = 0.107 mW/g**

Maximum value of SAR (measured) = 0.182 mW/g

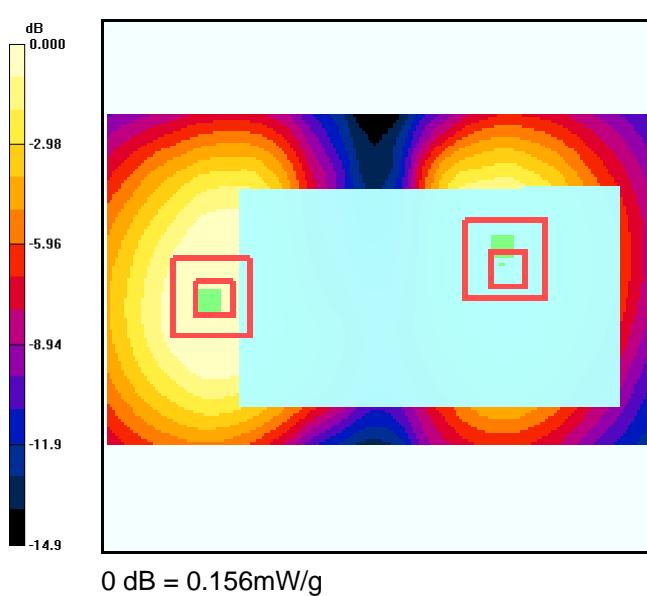
**CDMA-1900 FLAT - Face Up Ch600/Zoom Scan (7x7x7)/Cube 1:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.26 V/m; Power Drift = 0.077 dB

Peak SAR (extrapolated) = 0.206 W/kg

**SAR(1 g) = 0.145 mW/g; SAR(10 g) = 0.095 mW/g**

Maximum value of SAR (measured) = 0.156 mW/g



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**FCC C5120 PCS Flat with 15mm Air Space, Face Down Ch. 600, Open**

Communication System: CDMA-1900, Frequency: 1880 MHz, Duty Cycle: 1:1

 Medium: M1800, Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.49$  mho/m;  $\epsilon_r = 51.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom: SAM 12, Phantom section: Flat Section

**DASY4 Configuration:**

Probe: ES3DV3 - SN3035, ConvF(4.5, 4.5, 4.5), Calibrated: 9/9/2010

Sensor-Surface: 4mm (Mechanical Surface Detection),

Electronics: DAE4 Sn675, Calibrated: 5/5/2011

Measurement SW: DASY4, V4.7 Build 80

Postprocessing SW: SEMCAD, V1.8 Build 186

**Temperature:**

Room T = 21.8 +/- 1 deg C, Liquid T = 22.0 +/- 1 deg C

**CDMA-1900 FLAT - Face Down Ch600/Area Scan (71x101x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.819 mW/g

**CDMA-1900 FLAT - Face Down Ch600/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm,

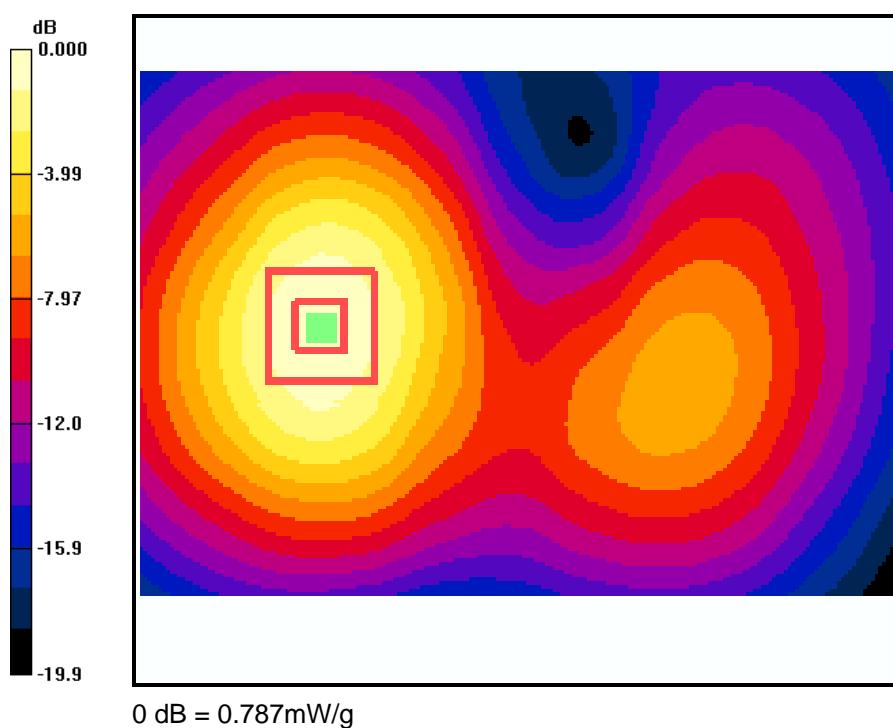
dz=5mm

Reference Value = 6.36 V/m; Power Drift = 0.855 dB

Peak SAR (extrapolated) = 1.10 W/kg

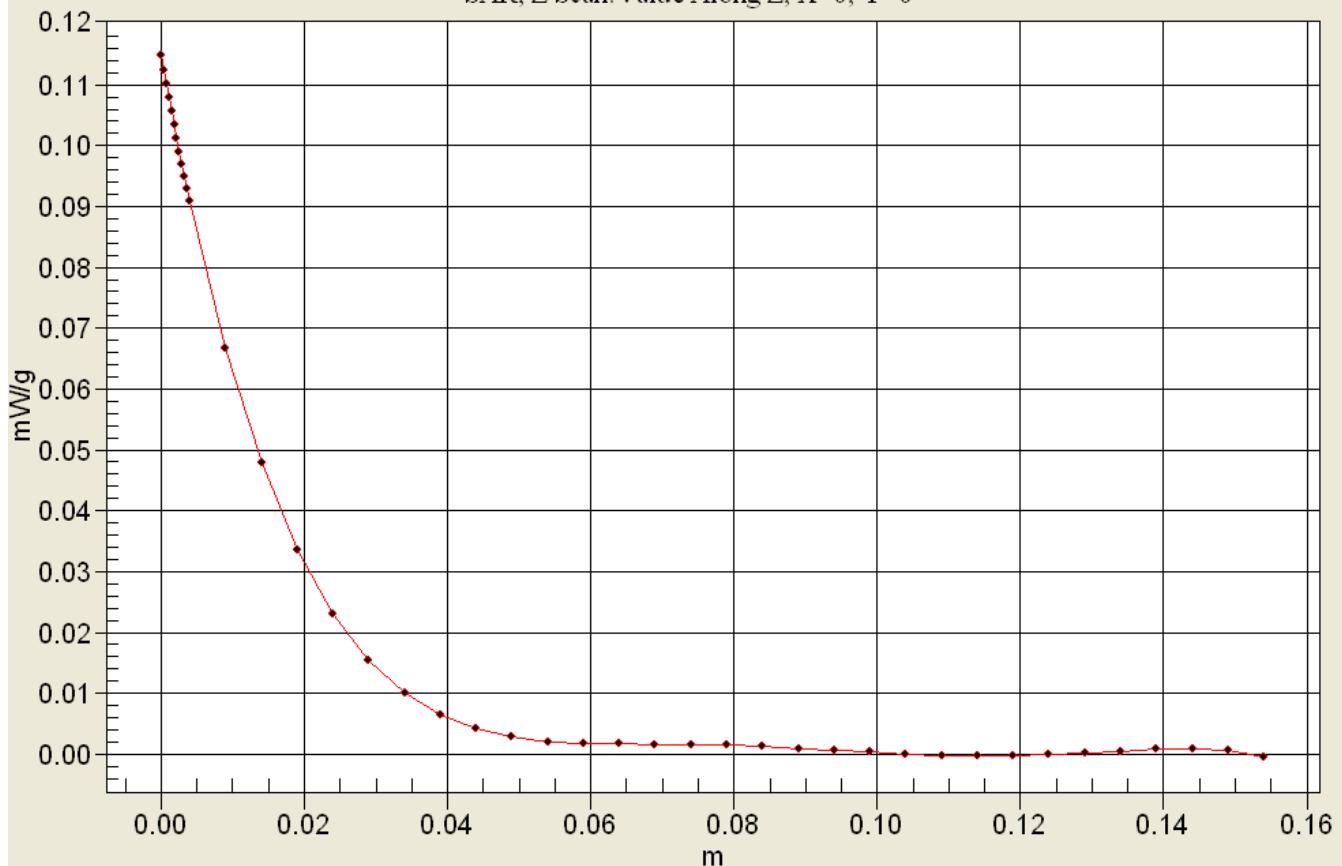
**SAR(1 g) = 0.725 mW/g; SAR(10 g) = 0.447 mW/g**

Maximum value of SAR (measured) = 0.787 mW/g



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**Interpolated SAR(x,y,z,f0)**  
 SAR; Z Scan: Value Along Z, X=0, Y=0



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Report #:	CT-C5120-9B2-0711-R0

Test Laboratory: Comptest/Kyocera

Date: 07/09/2011

**FCC C5120 PCS Flat with 15mm Air Space, Face Up Ch. 600, Open**

Communication System: CDMA-1900, Frequency: 1880 MHz, Duty Cycle: 1:1

 Medium: M1800, Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.49$  mho/m;  $\epsilon_r = 51.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom: SAM 12, Phantom section: Flat Section

**DASY4 Configuration:**

Probe: ES3DV3 - SN3035, ConvF(4.5, 4.5, 4.5), Calibrated: 9/9/2010

Sensor-Surface: 4mm (Mechanical Surface Detection),

Electronics: DAE4 Sn675, Calibrated: 5/5/2011

Measurement SW: DASY4, V4.7 Build 80

Postprocessing SW: SEMCAD, V1.8 Build 186

**Temperature:**

Room T = 21.8 +/- 1 deg C, Liquid T = 22.0 +/- 1 deg C

**CDMA-1900 FLAT - Face Up Ch600/Area Scan (71x101x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.240 mW/g

**CDMA-1900 FLAT - Face Up Ch600/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm,

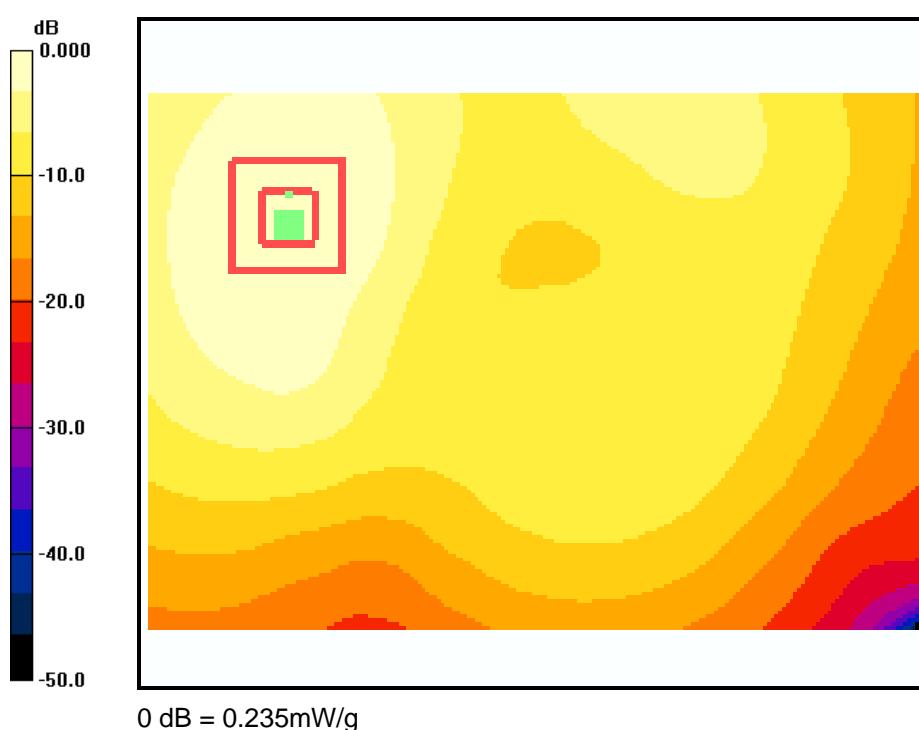
dz=5mm

Reference Value = 5.45 V/m; Power Drift = -0.090 dB

Peak SAR (extrapolated) = 0.321 W/kg

**SAR(1 g) = 0.217 mW/g; SAR(10 g) = 0.140 mW/g**

Maximum value of SAR (measured) = 0.235 mW/g



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## WLAN

Applicant	Kyocera
FCC ID:	V65C5120
Report #:	CT-C5120-9B2-0711-R0

Test Laboratory: Comptest/Kyocera

Date: 07/08/2011

**FCC C5120 WLAN Flat with 15mm Air Space, Face Down Ch. 1, Closed**

Communication System: WLAN-2450, Frequency: 2412 MHz, Duty Cycle: 1:1

 Medium: M2450, Medium parameters used:  $f = 2400$  MHz;  $\sigma = 2.03$  mho/m;  $\epsilon_r = 51$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom: SAM 12, Phantom section: Flat Section

**DASY4 Configuration:**

Probe: ES3DV3 - SN3078, ConvF(4.18, 4.18, 4.18), Calibrated: 7/14/2010

Sensor-Surface: 4mm (Mechanical Surface Detection),

Electronics: DAE4 Sn602, Calibrated: 7/14/2010

Measurement SW: DASY4, V4.7 Build 80

Postprocessing SW: SEMCAD, V1.8 Build 186

**Temperature:**

Room T = 21.8 +/- 1 deg C, Liquid T = 22.0 +/- 1 deg C

**WLAN-2450 ch1 Face DOWN-15mm/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.034 mW/g

**WLAN-2450 ch1 Face DOWN-15mm/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm,

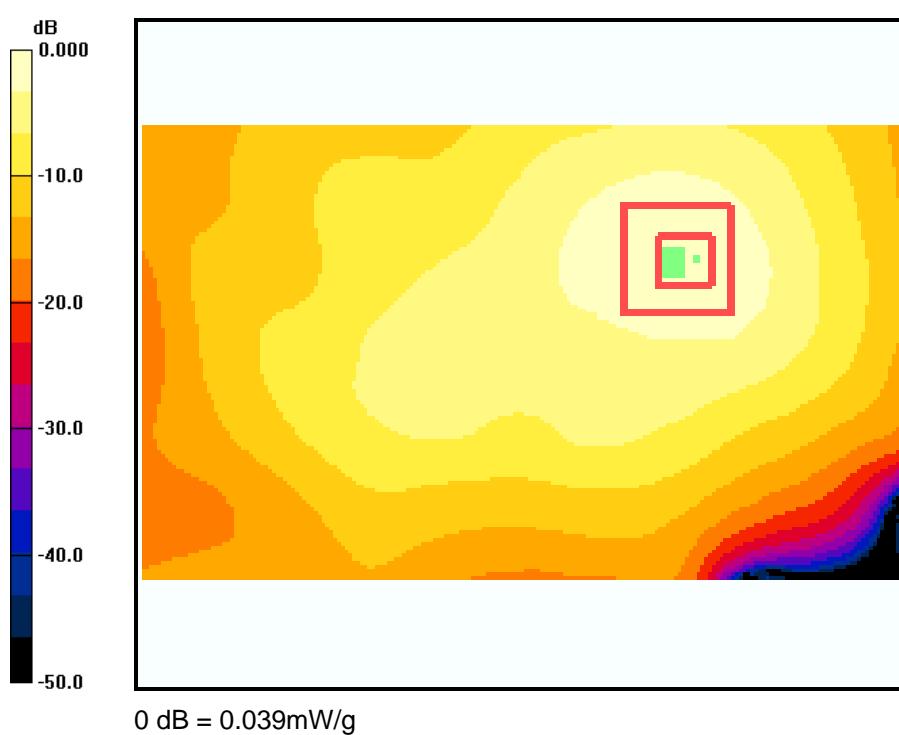
dz=5mm

Reference Value = 2.58 V/m; Power Drift = 0.050 dB

Peak SAR (extrapolated) = 0.067 W/kg

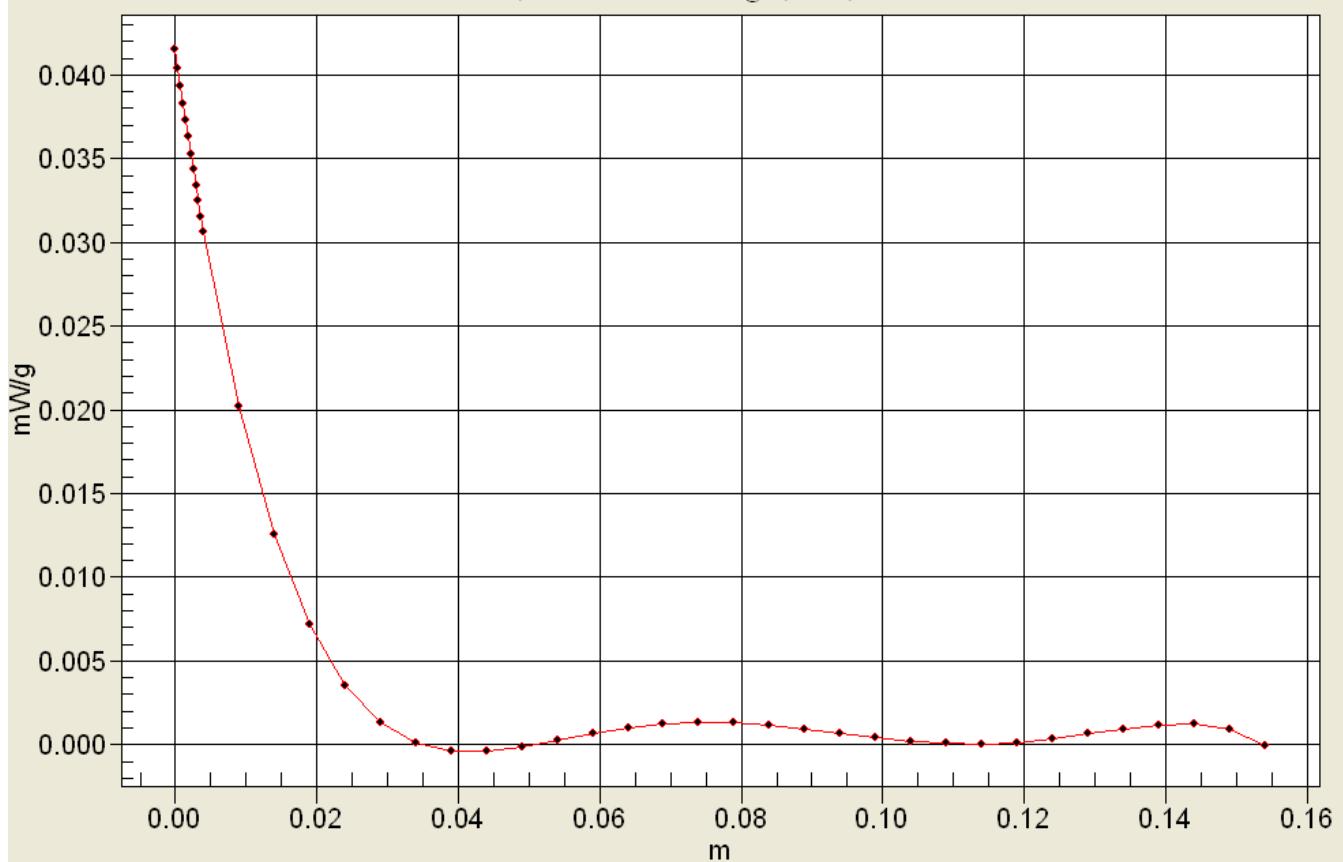
**SAR(1 g) = 0.033 mW/g; SAR(10 g) = 0.018 mW/g**

Maximum value of SAR (measured) = 0.039 mW/g



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**Interpolated SAR(x,y,z,f0)**  
 SAR; Z Scan: Value Along Z, X=0, Y=0



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Test Laboratory: Comptest/Kyocera

Date: 07/08/2011

**FCC C5120 WLAN Flat with 15mm Air Space, Face Up Ch. 1, Closed**

Communication System: WLAN-2450, Frequency: 2412 MHz, Duty Cycle: 1:1

 Medium: M2450, Medium parameters used:  $f = 2400$  MHz;  $\sigma = 2.03$  mho/m;  $\epsilon_r = 51$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom: SAM 12, Phantom section: Flat Section

**DASY4 Configuration:**

Probe: ES3DV3 - SN3078, ConvF(4.18, 4.18, 4.18), Calibrated: 7/14/2010

Sensor-Surface: 4mm (Mechanical Surface Detection),

Electronics: DAE4 Sn602, Calibrated: 7/14/2010

Measurement SW: DASY4, V4.7 Build 80

Postprocessing SW: SEMCAD, V1.8 Build 186

**Temperature:**

Room T = 21.8 +/- 1 deg C, Liquid T = 22.0 +/- 1 deg C

**WLAN-2450 ch1 Face UP-15mm/Area Scan (61x101x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.021 mW/g

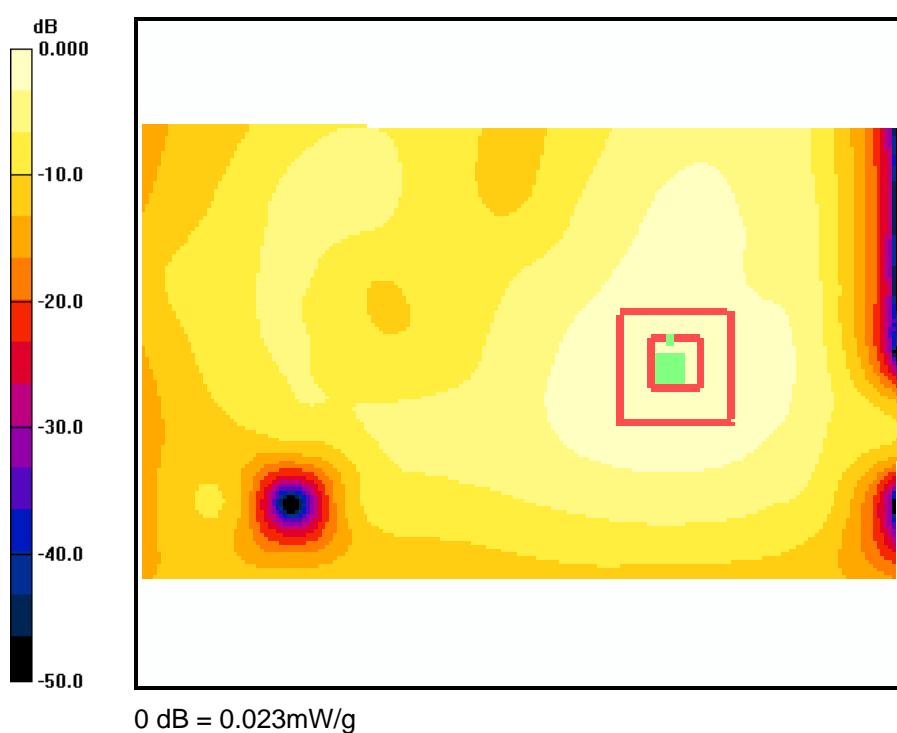
**WLAN-2450 ch1 Face UP-15mm/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.78 V/m; Power Drift = 0.019 dB

Peak SAR (extrapolated) = 0.039 W/kg

**SAR(1 g) = 0.021 mW/g; SAR(10 g) = 0.012 mW/g**

Maximum value of SAR (measured) = 0.023 mW/g



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**FCC C5120 WLAN Flat with 15mm Air Space, Face Down Ch. 1, Open**

Communication System: WLAN-2450, Frequency: 2412 MHz, Duty Cycle: 1:1

 Medium: M2450, Medium parameters used:  $f = 2400$  MHz;  $\sigma = 2.03$  mho/m;  $\epsilon_r = 51$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom: SAM 12, Phantom section: Flat Section

**DASY4 Configuration:**

Probe: ES3DV3 - SN3078, ConvF(4.18, 4.18, 4.18), Calibrated: 7/14/2010

Sensor-Surface: 4mm (Mechanical Surface Detection),

Electronics: DAE4 Sn602, Calibrated: 7/14/2010

Measurement SW: DASY4, V4.7 Build 80

Postprocessing SW: SEMCAD, V1.8 Build 186

**Temperature:**

Room T = 21.8 +/- 1 deg C, Liquid T = 22.0 +/- 1 deg C

**WLAN-2450 ch1 Open Face DOWN-22mm/Area Scan (81x101x1):** Measurement grid: dx=15mm, dy=15mm  
 Maximum value of SAR (interpolated) = 0.047 mW/g

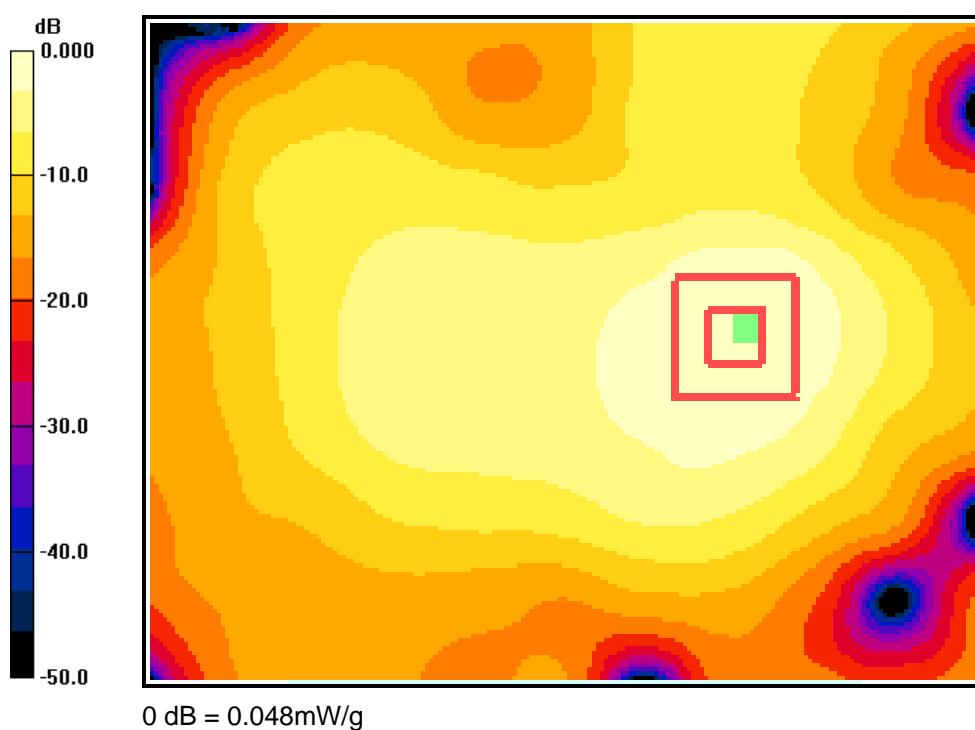
**WLAN-2450 ch1 Open Face DOWN-22mm/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.88 V/m; Power Drift = 0.157 dB

Peak SAR (extrapolated) = 0.080 W/kg

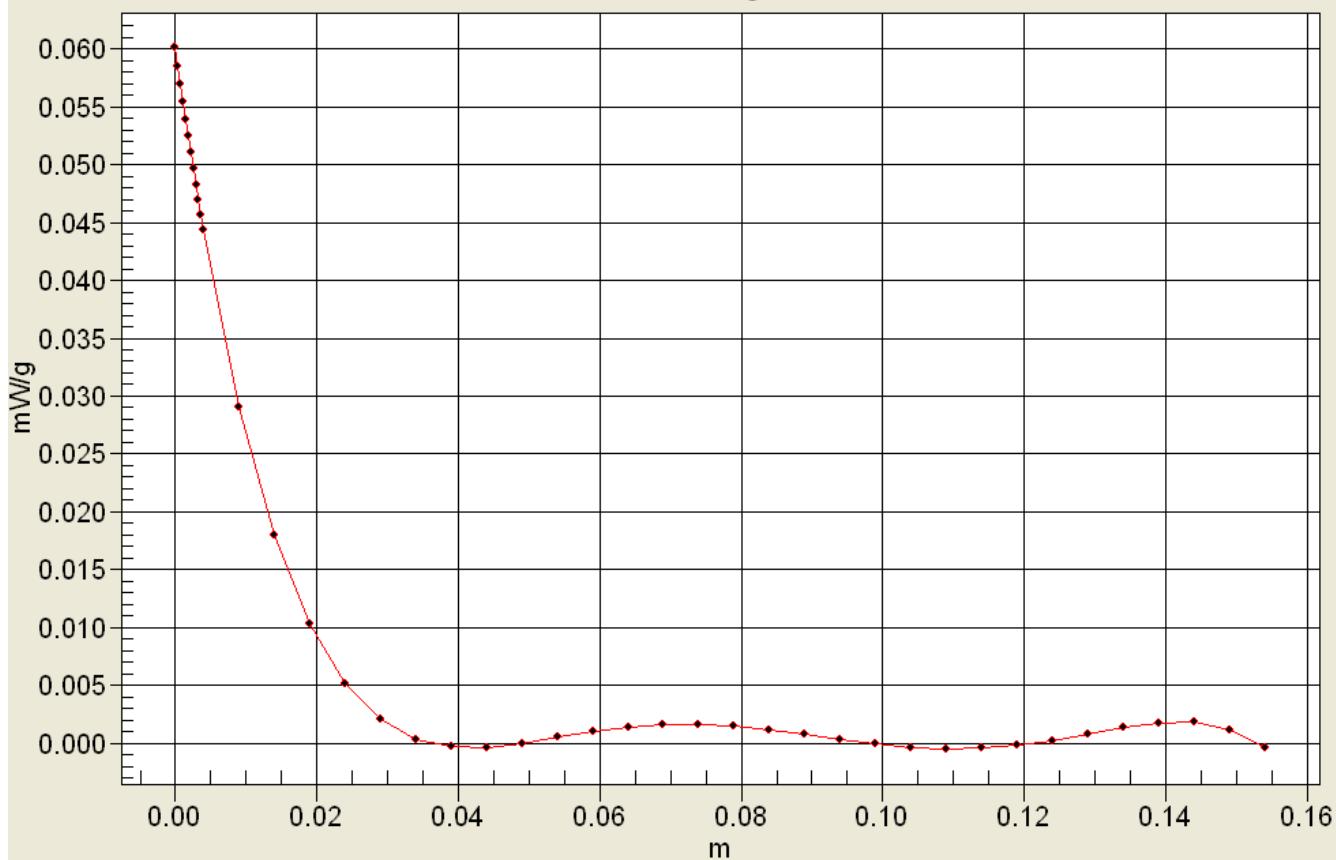
**SAR(1 g) = 0.045 mW/g; SAR(10 g) = 0.025 mW/g**

Maximum value of SAR (measured) = 0.048 mW/g



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**Interpolated SAR(x,y,z,f0)**  
 SAR; Z Scan: Value Along Z, X=0, Y=0



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Date: 07/08/2011

**FCC C5120 WIFI Flat with 15mm Air Space, Face Up Ch. 1, Open**

Communication System: WLAN-2450, Frequency: 2412 MHz, Duty Cycle: 1:1

 Medium: M2450, Medium parameters used:  $f = 2400$  MHz;  $\sigma = 2.03$  mho/m;  $\epsilon_r = 51$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom: SAM 12, Phantom section: Flat Section

**DASY4 Configuration:**

Probe: ES3DV3 - SN3078, ConvF(4.18, 4.18, 4.18), Calibrated: 7/14/2010

Sensor-Surface: 4mm (Mechanical Surface Detection),

Electronics: DAE4 Sn602, Calibrated: 7/14/2010

Measurement SW: DASY4, V4.7 Build 80

Postprocessing SW: SEMCAD, V1.8 Build 186

**Temperature:**

Room T = 21.8 +/- 1 deg C, Liquid T = 22.0 +/- 1 deg C

**WLAN-2450 ch1 Open Face UP-22mm/Area Scan (81x101x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.036 mW/g

**WLAN-2450 ch1 Open Face UP-22mm/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm,

dz=5mm

Reference Value = 1.73 V/m; Power Drift = -0.190 dB

Peak SAR (extrapolated) = 0.058 W/kg

**SAR(1 g) = 0.032 mW/g; SAR(10 g) = 0.018 mW/g**

Maximum value of SAR (measured) = 0.035 mW/g

**WLAN-2450 ch1 Open Face UP-22mm/Zoom Scan (7x7x7)/Cube 1:** Measurement grid: dx=5mm, dy=5mm,

dz=5mm

Reference Value = 1.73 V/m; Power Drift = -0.190 dB

Peak SAR (extrapolated) = 0.055 W/kg

**SAR(1 g) = 0.030 mW/g; SAR(10 g) = 0.017 mW/g**

Maximum value of SAR (measured) = 0.033 mW/g

