

Applicant:	Kyocera
FCC ID:	V65S3015
Report #:	CT-S3015-9A-0711-R0

EXHIBIT 9 APPENDIX A: SAR VALIDATION PLOTS

## Validation for HEAD

Applicant:	Kyocera
FCC ID:	V65S3015
Report #:	CT-S3015-9A-0711-R0

Test Laboratory: Comptest/Kyocera

Date: 06/24/2011

**835MHz Validation @ 20dbm, Probe #1618, DAE#530, Dipole #467**

Communication System: CDMA, Frequency: 835 MHz, Duty Cycle: 1:1

 Medium: Head 835 MHz, Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.9$  mho/m;  $\epsilon_r = 41.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom: SAM 12, Phantom section: Flat Section

**DASY4 Configuration:**

Probe: ET3DV6 - SN1618, ConvF(6.52, 6.52, 6.52), Calibrated: 8/11/2010

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

Electronics: DAE4 Sn530, 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

**835MHz Validation/Area Scan (61x121x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.03 mW/g

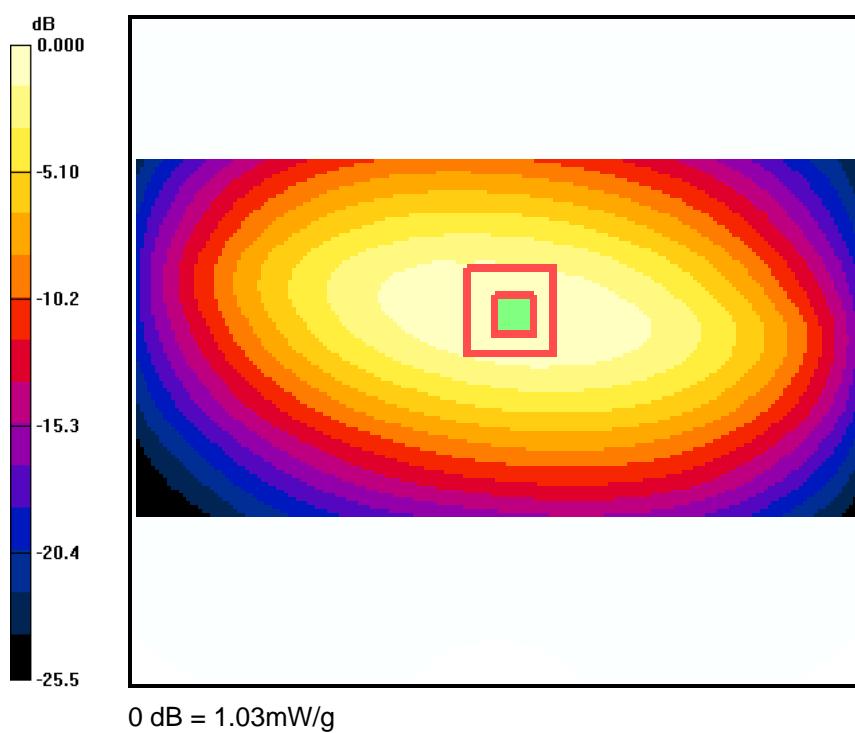
**835MHz Validation/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 32.5 V/m; Power Drift = 0.307 dB

Peak SAR (extrapolated) = 1.39 W/kg

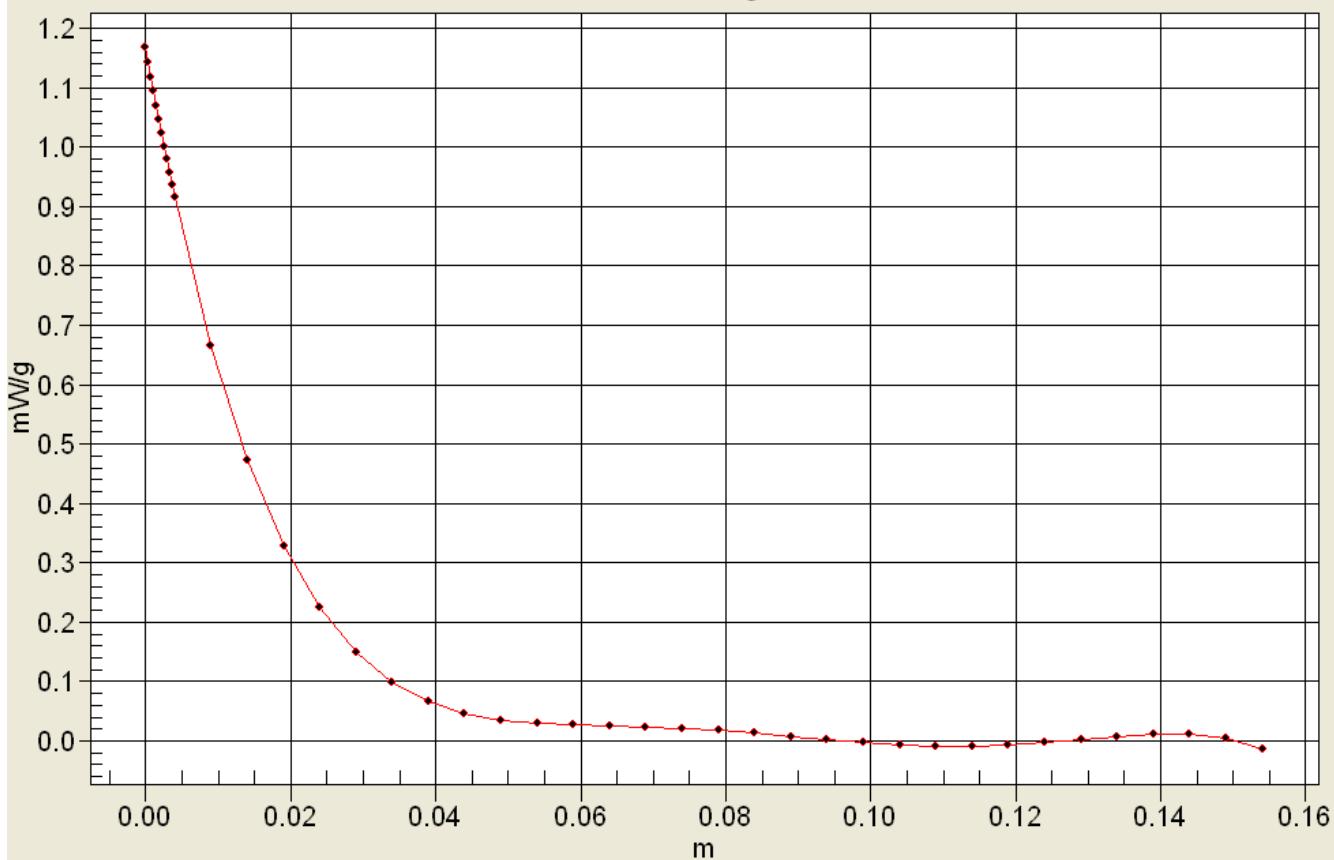
**SAR(1 g) = 0.955 mW/g; SAR(10 g) = 0.625 mW/g**

Maximum value of SAR (measured) = 1.03 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: 07/05/2011

**835MHz Validation @ 20dbm, Probe #1618, DAE#530, Dipole #467**

Communication System: CDMA, Frequency: 835 MHz, Duty Cycle: 1:1

 Medium: Head 835 MHz, Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.9$  mho/m;  $\epsilon_r = 41.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom: SAM 12, Phantom section: Flat Section

**DASY4 Configuration:**

Probe: ET3DV6 - SN1618, ConvF(6.52, 6.52, 6.52), Calibrated: 8/11/2010

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

Electronics: DAE4 Sn530, 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

**835MHz Validation/Area Scan (61x121x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.04 mW/g

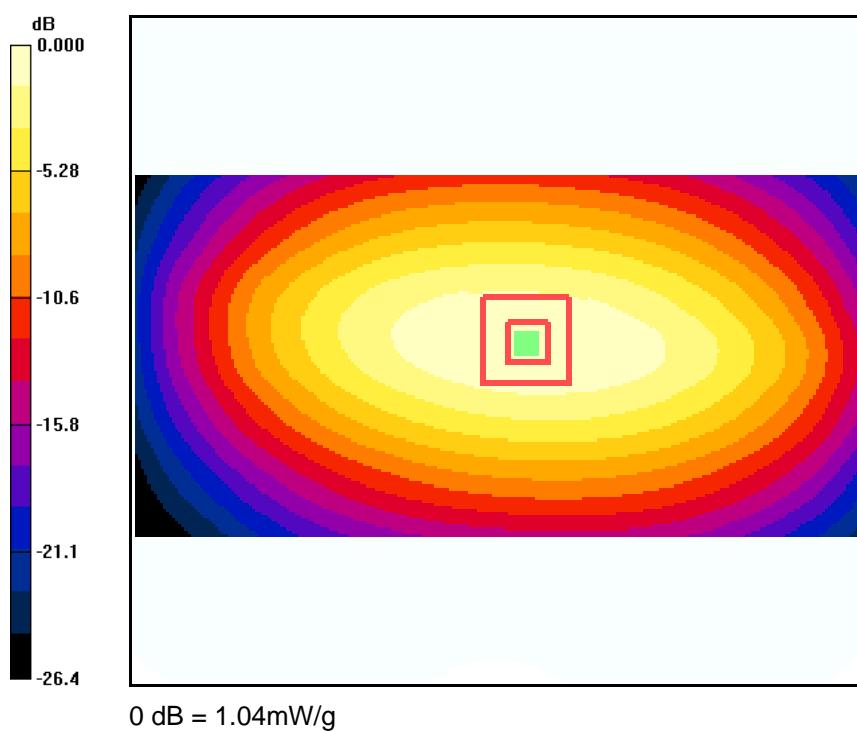
**835MHz Validation/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 34.4 V/m; Power Drift = 0.006 dB

Peak SAR (extrapolated) = 1.40 W/kg

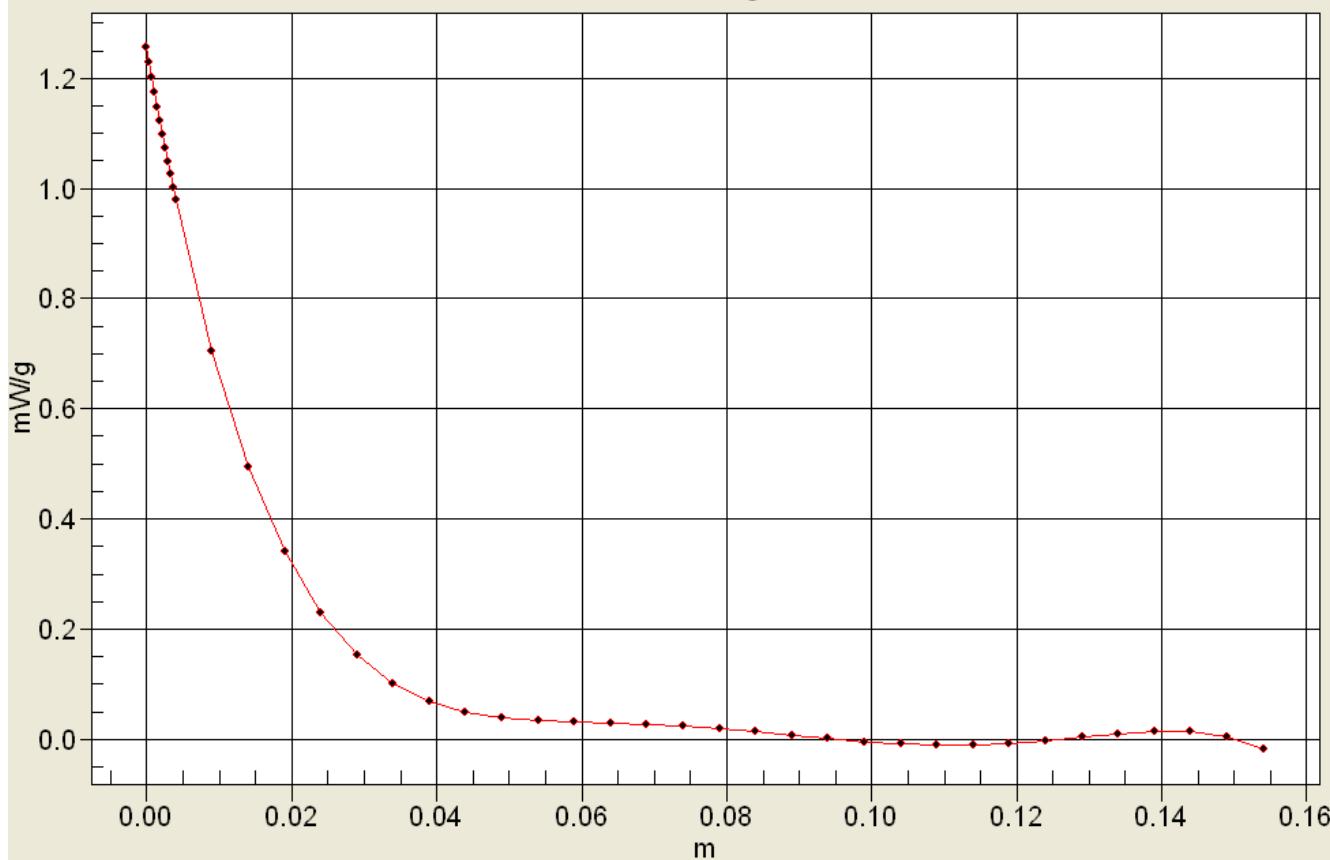
**SAR(1 g) = 0.960 mW/g; SAR(10 g) = 0.630 mW/g**

Maximum value of SAR (measured) = 1.04 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: 07/06/2011

**835MHz Validation @ 20dbm, Probe #1618, DAE#530, Dipole #467**

Communication System: CDMA, Frequency: 835 MHz, Duty Cycle: 1:1

 Medium: Head 835 MHz, Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.9$  mho/m;  $\epsilon_r = 42$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom: SAM 12, Phantom section: Flat Section

**DASY4 Configuration:**

Probe: ET3DV6 - SN1618, ConvF(6.52, 6.52, 6.52), Calibrated: 8/11/2010

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

Electronics: DAE4 Sn530, 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

**835MHz Validation/Area Scan (61x121x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.03 mW/g

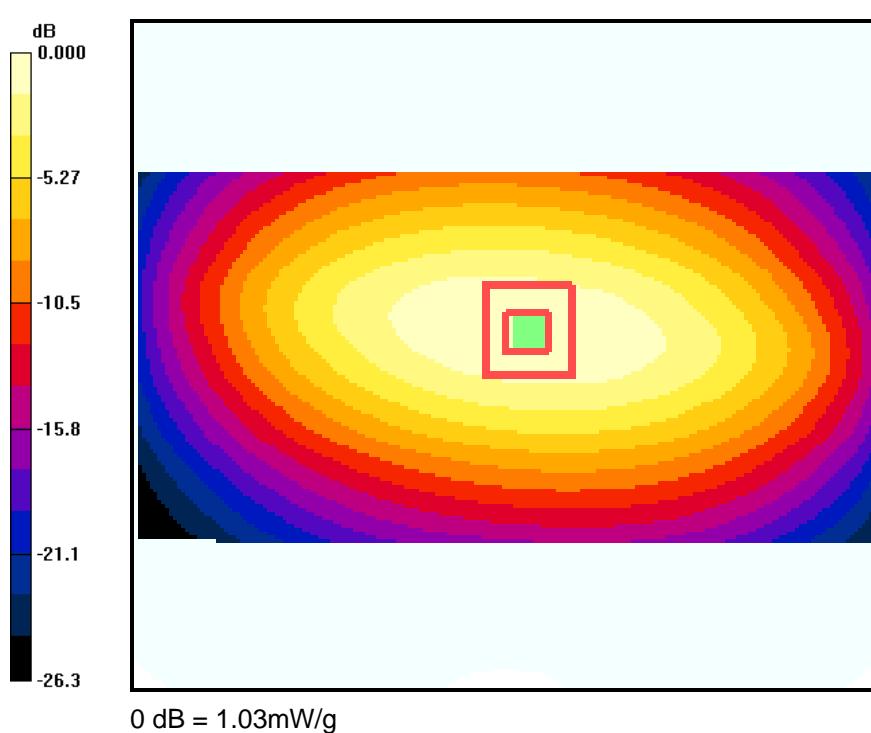
**835MHz Validation/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 32.6 V/m; Power Drift = 0.141 dB

Peak SAR (extrapolated) = 1.40 W/kg

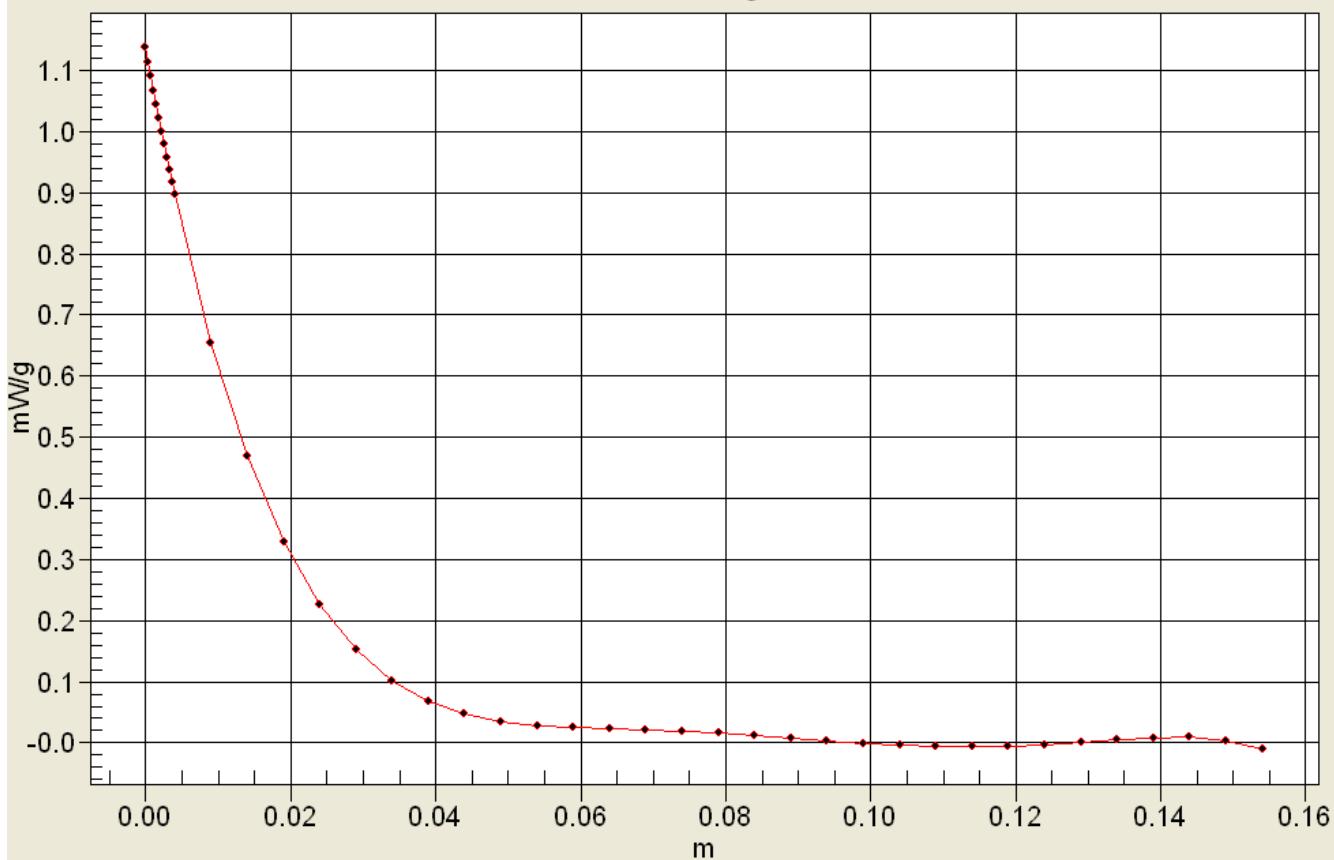
**SAR(1 g) = 0.955 mW/g; SAR(10 g) = 0.624 mW/g**

Maximum value of SAR (measured) = 1.03 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: 06/28/2011

**1900Mhz Validation @ 20dBm Probe 3035, DAE 675 and Dipole 5d016**

Communication System: CW, Frequency: 1900 MHz, Duty Cycle: 1:1

 Medium: HSL1900, Medium parameters used (interpolated):  $f = 1900$  MHz;  $\sigma = 1.37$  mho/m;  $\epsilon_r = 39.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom: SAM 12, Phantom section: Flat Section

**DASY4 Configuration:**

Probe: ES3DV3 - SN3035, ConvF(5, 5, 5), Calibrated: 9/9/2010

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

Electronics: DAE4 Sn603, Calibrated: 9/20/2010

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

**1900MHz Validation @20dBm/Area Scan (61x61x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 4.49 mW/g

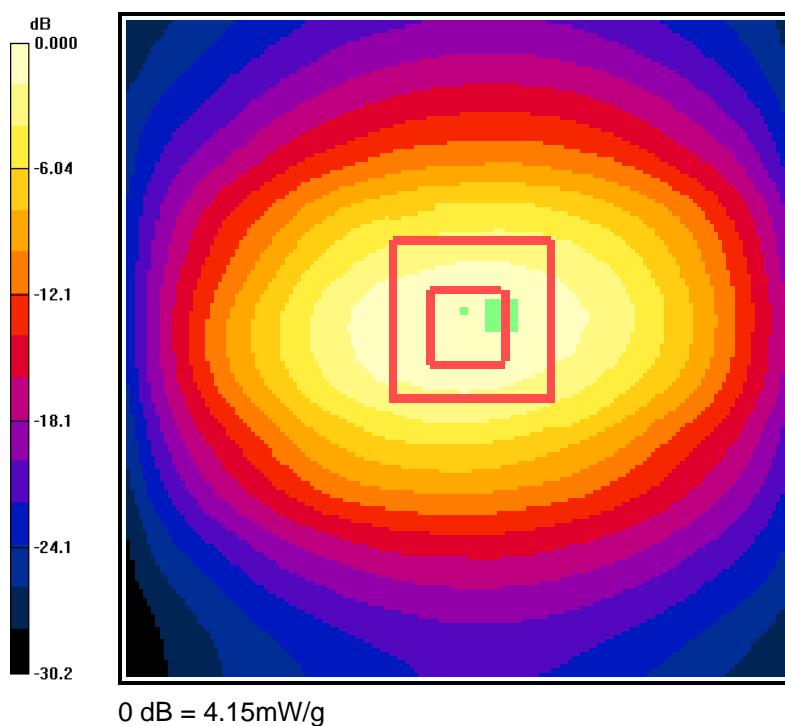
**1900MHz Validation @20dBm/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 54.8 V/m; Power Drift = -0.034 dB

Peak SAR (extrapolated) = 6.63 W/kg

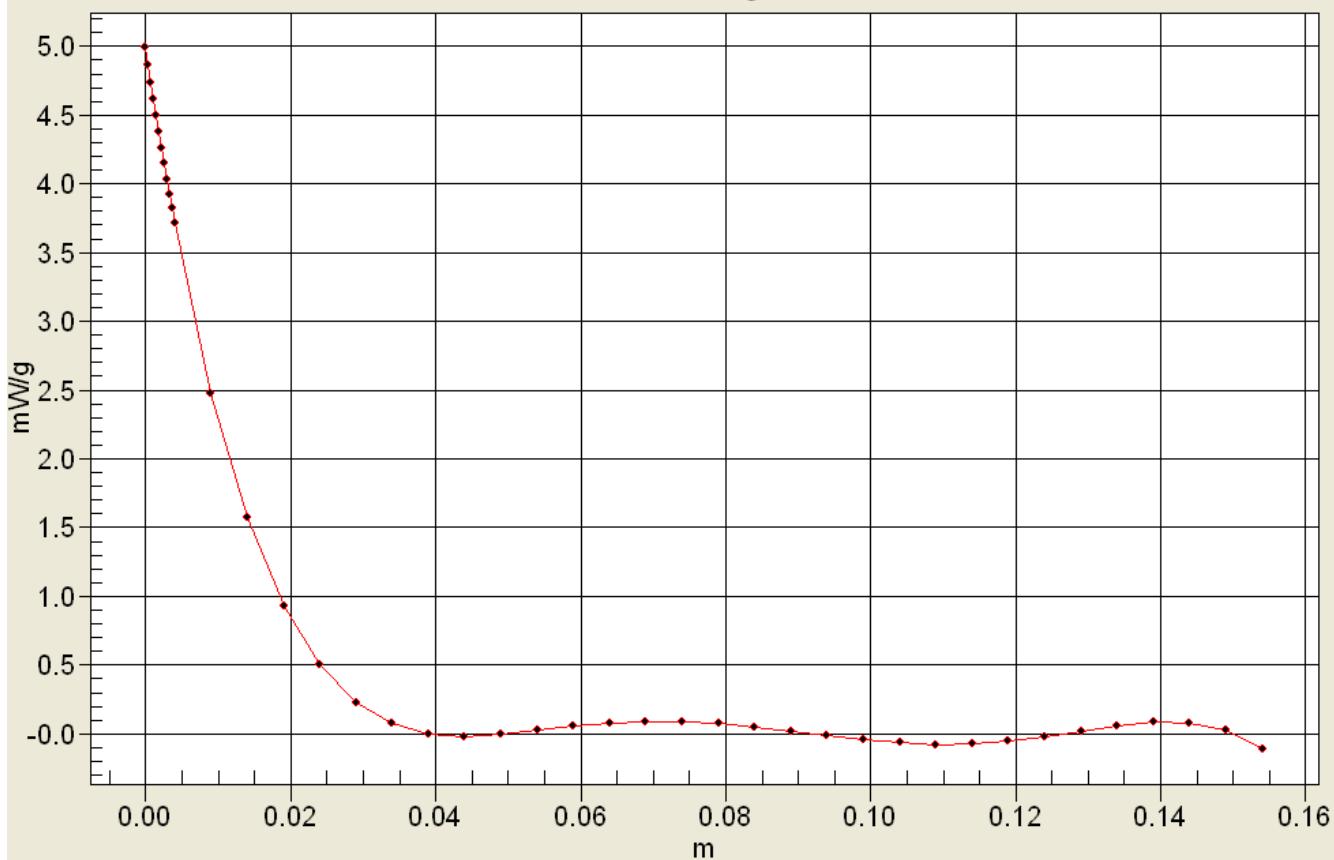
**SAR(1 g) = 3.71 mW/g; SAR(10 g) = 1.96 mW/g**

Maximum value of SAR (measured) = 4.15 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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## Validation for BODY

Applicant:	Kyocera
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Report #:	CT-S3015-9A-0711-R0

Test Laboratory: Comptest/Kyocera

Date: 07/11/2011

**835MHz Validation (in Muscle), Probe #3078, DAE #602, Dipole #467**

Communication System: CW, Frequency: 835 MHz, Duty Cycle: 1:1

 Medium: M800, Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.94$  mho/m;  $\epsilon_r = 53.8$ ;  $\rho = 1000$  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

**835MHz/Area Scan (51x121x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.05 mW/g

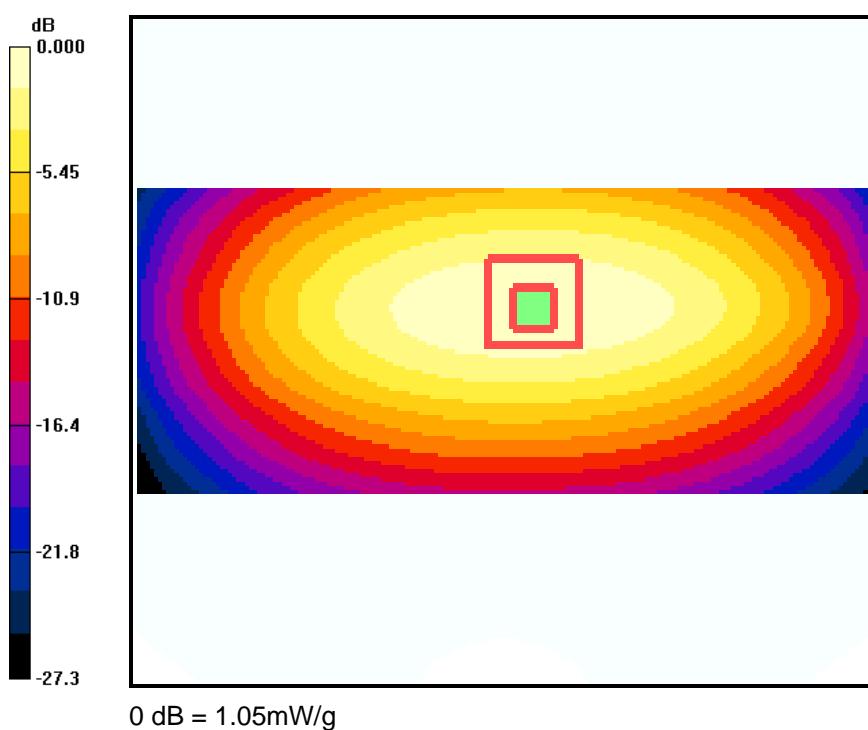
**835MHz/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 32.4 V/m; Power Drift = -0.045 dB

Peak SAR (extrapolated) = 1.43 W/kg

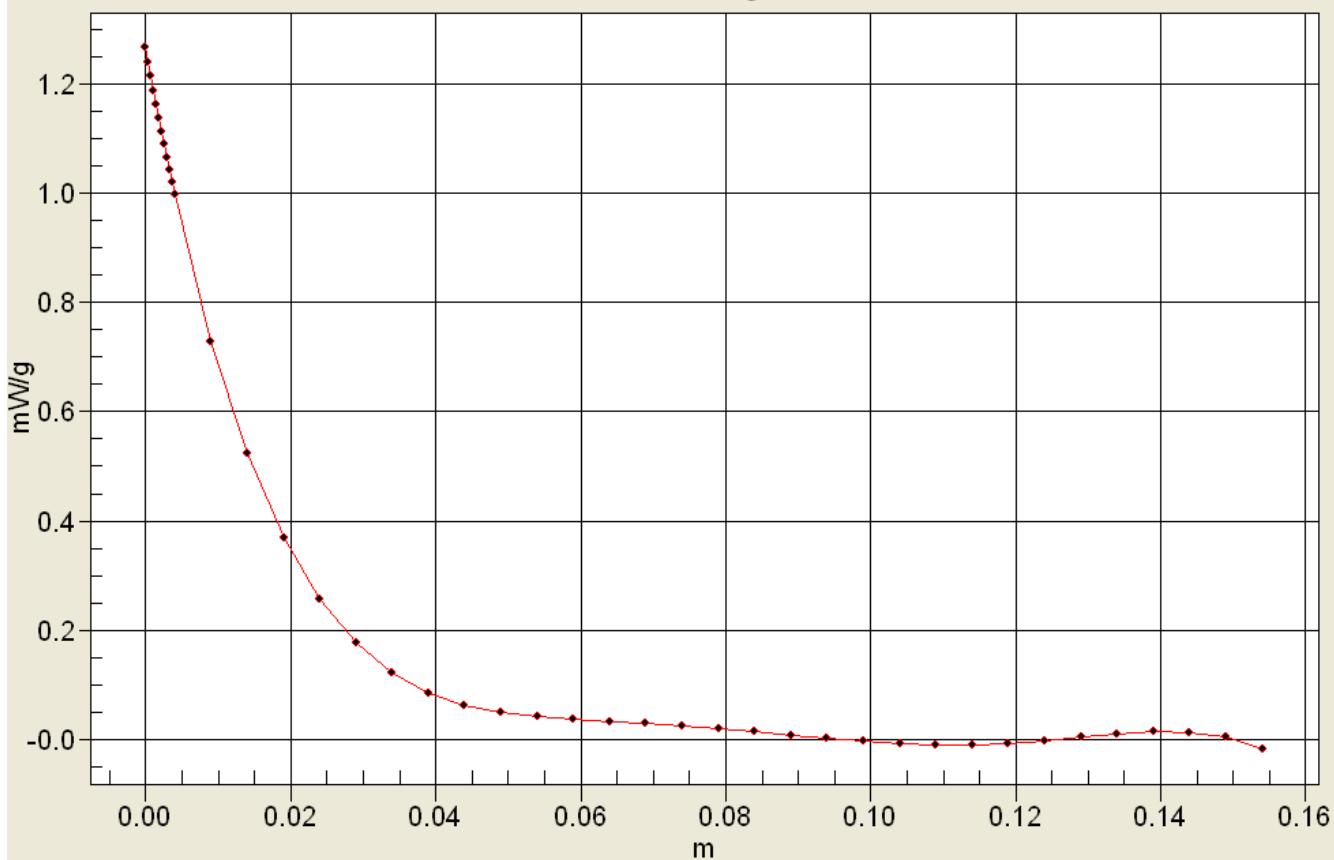
**SAR(1 g) = 0.970 mW/g; SAR(10 g) = 0.640 mW/g**

Maximum value of SAR (measured) = 1.05 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

**1900Mhz Validation @ 20dBm Probe 3035, DAE 675 and Dipole 5d016**

Communication System: CW, Frequency: 1900 MHz, Duty Cycle: 1:1

 Medium: M1800, Medium parameters used (interpolated):  $f = 1900$  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

**1900MHz Validation @20dBm/Area Scan (61x61x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 4.78 mW/g

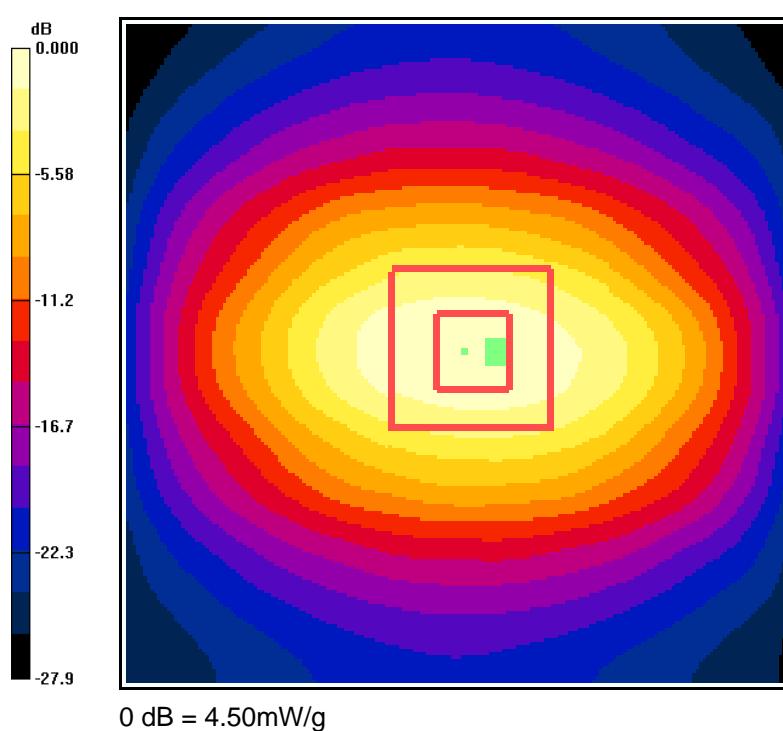
**1900MHz Validation @20dBm/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 56.4 V/m; Power Drift = 0.042 dB

Peak SAR (extrapolated) = 6.82 W/kg

**SAR(1 g) = 3.99 mW/g; SAR(10 g) = 2.12 mW/g**

Maximum value of SAR (measured) = 4.50 mW/g



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

