

Applicant:	Kyocera
FCC ID:	V65SCP-3820
Report #:	CT-SCP-3820-9A-0610-R0

# **EXHIBIT 9 APPENDIX A: SAR VALIDATION PLOTS**

## Validation for HEAD

Date: 6/9/2010

Test Laboratory: Comptest/Kyocera

## 835MHz Validation @ 20dbm, Probe #1663, DAE#527, Dipole #019

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

Medium: Head 835 MHz, Medium parameters used (interpolated): f = 835 MHz;  $\sigma = 0.92$  mho/m;  $\epsilon_r = 42.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom: SAM 12, Phantom section: Flat Section

**DASY4 Configuration:** 

Probe: ET3DV6 - SN1663, ConvF(6.44, 6.44, 6.44), Calibrated: 9/10/2009

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

Electronics: DAE4 Sn527, Calibrated: 7/9/2009 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

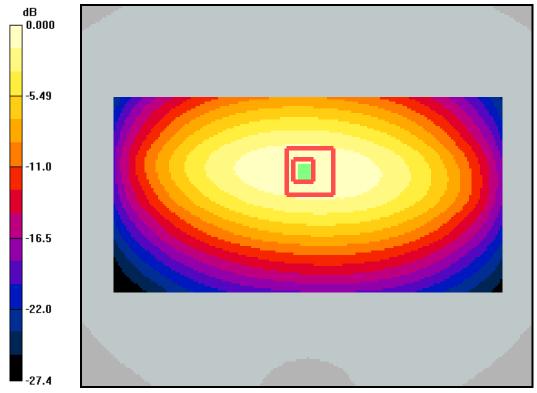
Maximum value of SAR (interpolated) = 1.02 mW/g

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

Reference Value = 29.8 V/m; Power Drift = 0.061 dB

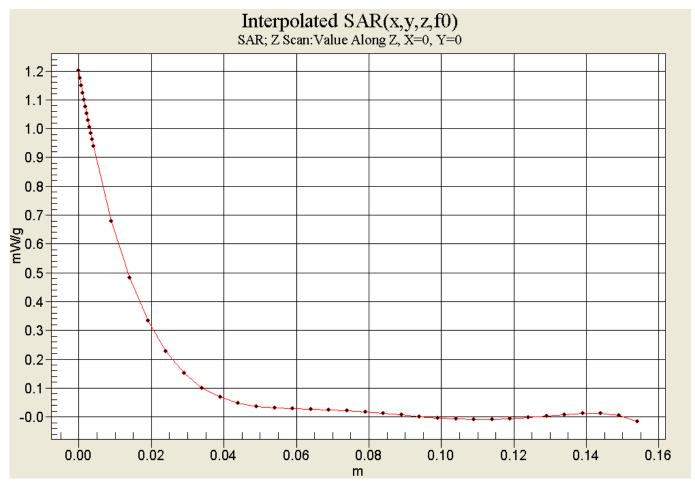
Peak SAR (extrapolated) = 1.37 W/kg

**SAR(1 g) = 0.930 mW/g; SAR(10 g) = 0.608 mW/g**Maximum value of SAR (measured) = 1.01 mW/g



0 dB = 1.02 mW/g







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Date: 6/11/2010

Test Laboratory: Comptest/Kyocera

#### 1900Mhz Validation @ 20dBm Probe 3036, DAE 603 and Dipole 5d016

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

Medium: HSL1900, Medium parameters used (interpolated): f = 1900 MHz;  $\sigma = 1.38 \text{ mho/m}$ ;  $\epsilon_r = 39.6$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom: SAM 12, Phantom section: Flat Section

**DASY4 Configuration:** 

Probe: ES3DV3 - SN3036, ConvF(4.92, 4.92, 4.92), Calibrated: 8/20/2009

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

Electronics: DAE4 Sn603, Calibrated: 9/15/2009 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) = 5.01 mW/g

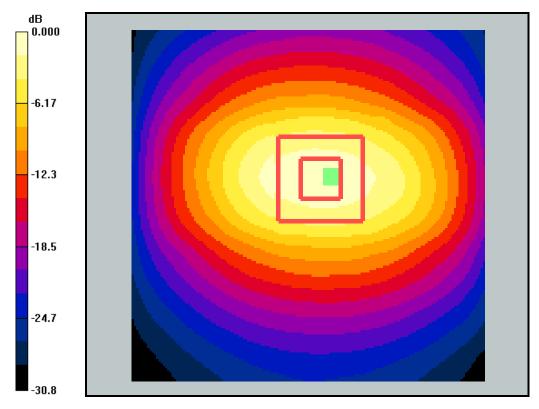
1900MHz Validation @20dBm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 50.1 V/m; Power Drift = -0.082 dB

Peak SAR (extrapolated) = 7.14 W/kg

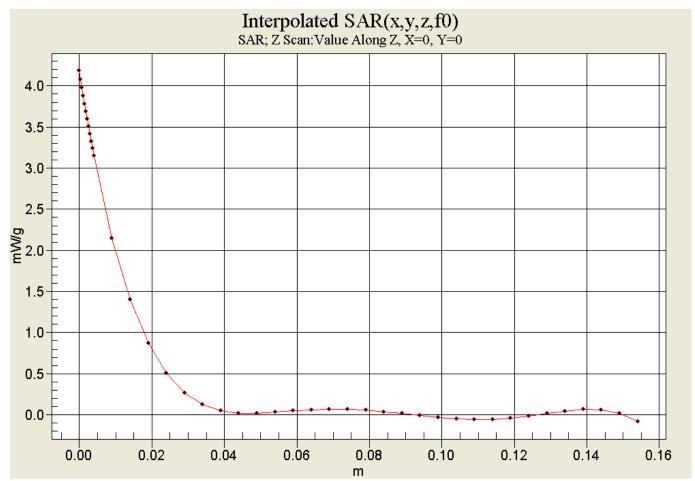
SAR(1 g) = 3.99 mW/g; SAR(10 g) = 2.11 mW/g

Maximum value of SAR (measured) = 4.43 mW/g



0 dB = 5.01 mW/g







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# Validation for BODY

Test Laboratory: Comptest/Kyocera

#### 835MHz Validation (in Muscle), Probe #1618, DAE #493, Dipole #4d019

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

Medium: M900, Medium parameters used: f = 835 MHz;  $\sigma = 0.96$  mho/m;  $\epsilon_r = 54.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom: SAM 12, Phantom section: Flat Section

**DASY4 Configuration:** 

Probe: ET3DV6 - SN1618, ConvF(6.33, 6.33, 6.33), Calibrated: 7/15/2009

Sensor-Surface: 4mm (Mechanical Surface Detection), Electronics: DAE3 Sn493, Calibrated: 8/12/2009 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

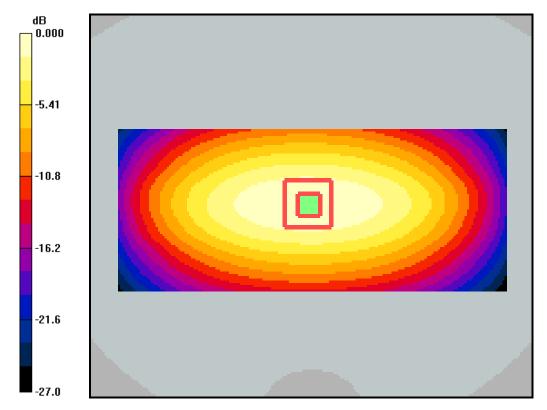
Maximum value of SAR (interpolated) = 1.06 mW/g

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

Reference Value = 34.5 V/m; Power Drift = 0.022 dB

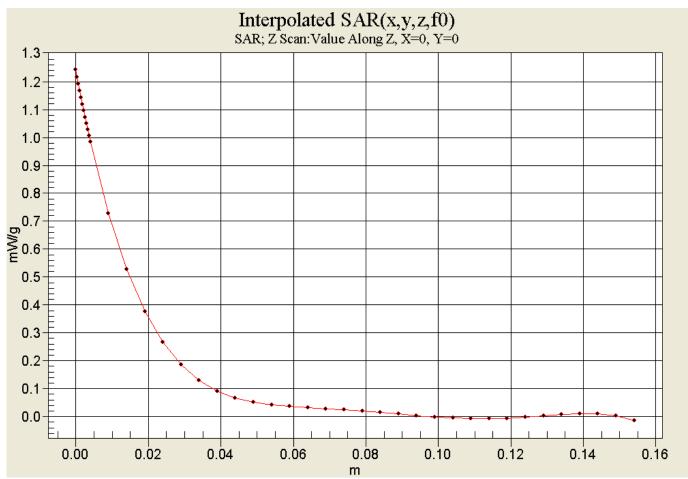
Peak SAR (extrapolated) = 1.42 W/kg

SAR(1 g) = 0.990 mW/g; SAR(10 g) = 0.656 mW/g Maximum value of SAR (measured) = 1.08 mW/g



0 dB = 1.06 mW/g







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Date: 6/4/2010

Test Laboratory: Comptest/Kyocera

### 1900MHz Validation (in Muscle), Probe #3035, DAE #530, Dipole #5d016

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

Medium: M1900, Medium parameters used (interpolated): f = 1900 MHz;  $\sigma = 1.52 \text{ mho/m}$ ;  $\epsilon_r = 52$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom: SAM 12, Phantom section: Flat Section

**DASY4 Configuration:** 

Probe: ES3DV3 - SN3035, ConvF(4.54, 4.54, 4.54), Calibrated: 8/20/2009

Sensor-Surface: 4mm (Mechanical Surface Detection), Electronics: DAE4 Sn530,Calibrated: 4/23/2010 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

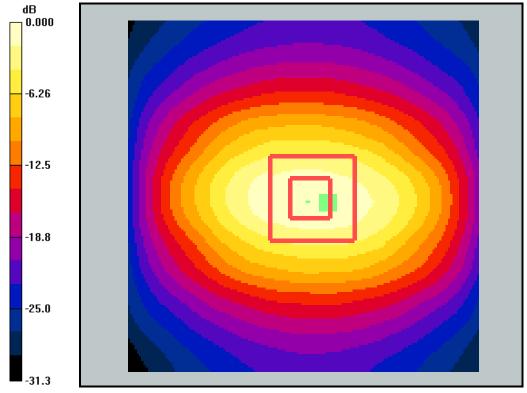
Maximum value of SAR (interpolated) = 4.69 mW/g

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

Reference Value = 55.9 V/m; Power Drift = 0.011 dB

Peak SAR (extrapolated) = 6.62 W/kg

SAR(1 g) = 3.91 mW/g; SAR(10 g) = 2.09 mW/g Maximum value of SAR (measured) = 4.45 mW/g



0 dB = 4.69 mW/g



