



Applicant:	Kyocera
FCC ID:	V65C5155A1
Report #:	CT-C5155-9A-0412-R0

EXHIBIT 9 APPENDIX A: SAR VALIDATION PLOTS

Validation for HEAD

Applicant:	Kyocera
FCC ID:	V65C5155A1
Report #:	CT-C5155-9A-0412-R0

Test Laboratory: Comptest/Kyocera

Date: 04/05/2012

1900Mhz Validation @ 20dBm Probe 3036, DAE 675 and Dipole 5d016

Communication System: CW, Frequency: 1900 MHz, Duty Cycle: 1:1
 Medium: HSL1900, Medium parameters used (interpolated): $f = 1900$ MHz; $\sigma = 1.43$ mho/m; $\epsilon_r = 38.4$; $\rho = 1000$ kg/m³
 Phantom: SAM 12, Phantom section: Flat Section

DASY4 Configuration:

Probe: ES3DV3 - SN3036, ConvF(5.06, 5.06, 5.06), Calibrated: 5/11/2011
 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 \pm 1 deg C, Liquid T = 22.0 \pm 1 deg C

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

Maximum value of SAR (interpolated) = 4.92 mW/g

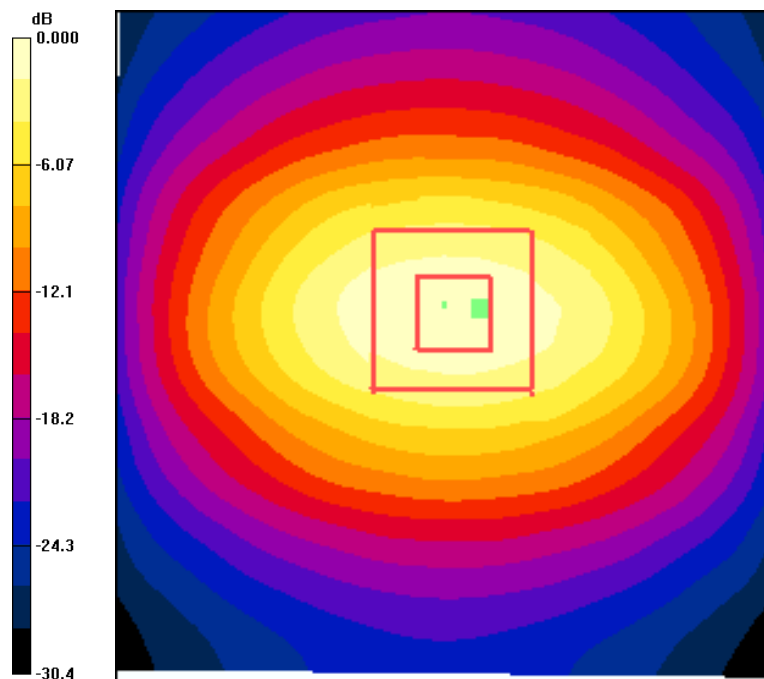
1900MHz Validation @20dBm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 55.3 V/m; Power Drift = 0.039 dB

Peak SAR (extrapolated) = 7.73 W/kg

SAR(1 g) = 4.14 mW/g; SAR(10 g) = 2.13 mW/g

Maximum value of SAR (measured) = 4.62 mW/g



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Test Laboratory: Comptest/Kyocera

Date: 04/06/2012

1900MHz Validation @ 20dBm Probe 3036, DAE 675 and Dipole 5d016

Communication System: CW, Frequency: 1900 MHz, Duty Cycle: 1:1
 Medium: HSL1900, Medium parameters used (interpolated): $f = 1900$ MHz; $\sigma = 1.43$ mho/m; $\epsilon_r = 38.6$; $\rho = 1000$ kg/m³
 Phantom: SAM 12, Phantom section: Flat Section

DASY4 Configuration:

Probe: ES3DV3 - SN3036, ConvF(5.06, 5.06, 5.06), Calibrated: 5/11/2011
 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 \pm 1 deg C, Liquid T = 22.0 \pm 1 deg C

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

Maximum value of SAR (interpolated) = 4.73 mW/g

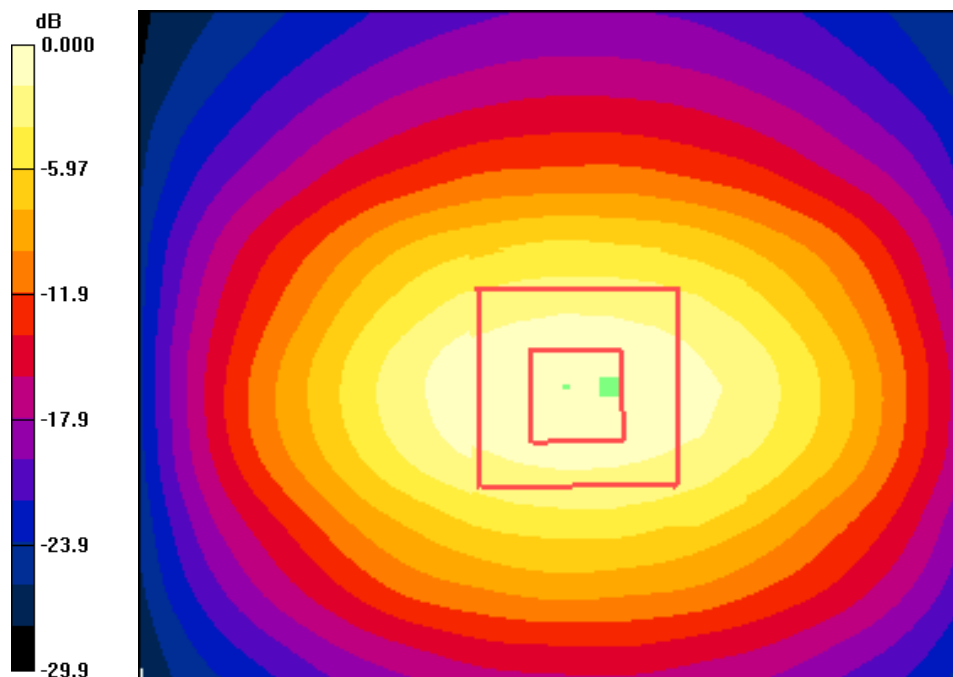
1900MHz Validation @20dBm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 55.6 V/m; Power Drift = 0.025 dB

Peak SAR (extrapolated) = 7.40 W/kg

SAR(1 g) = 3.97 mW/g; SAR(10 g) = 2.05 mW/g

Maximum value of SAR (measured) = 4.47 mW/g



0 dB = 4.47mW/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: 04/09/2012

2450MHz Validation, Probe #3078, DAE #530, Dipole #776

Communication System: CW, Frequency: 2450 MHz, Duty Cycle: 1:1
 Medium: HSL2450, Medium parameters used: $f = 2450$ MHz; $\sigma = 1.83$ mho/m; $\epsilon_r = 37.9$; $\rho = 1000$ kg/m³
 Phantom: SAM 12, Phantom section: Flat Section

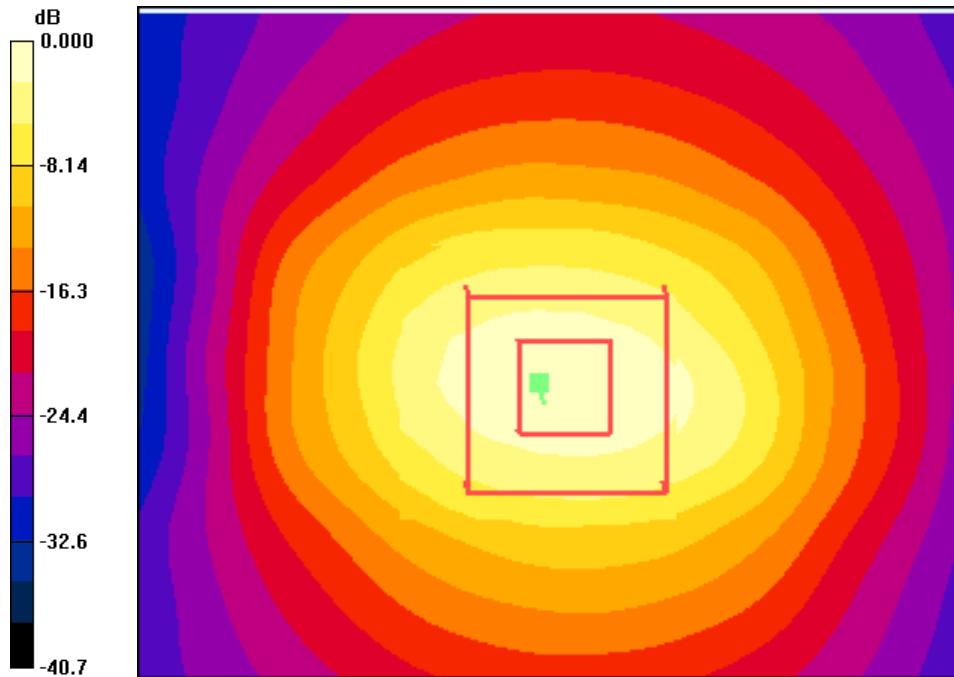
DASY4 Configuration:

Probe: ES3DV3 - SN3078, ConvF(4.36, 4.36, 4.36), Calibrated: 9/19/2011
 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 \pm 1 deg C, Liquid T = 22.0 \pm 1 deg C

2450MHz Validation @20dBm/Area Scan (61x71x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (interpolated) = 6.95 mW/g

2450MHz Validation @20dBm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
 Reference Value = 54.4 V/m; Power Drift = -0.171 dB
 Peak SAR (extrapolated) = 12.1 W/kg
SAR(1 g) = 5.47 mW/g; SAR(10 g) = 2.45 mW/g
 Maximum value of SAR (measured) = 6.18 mW/g



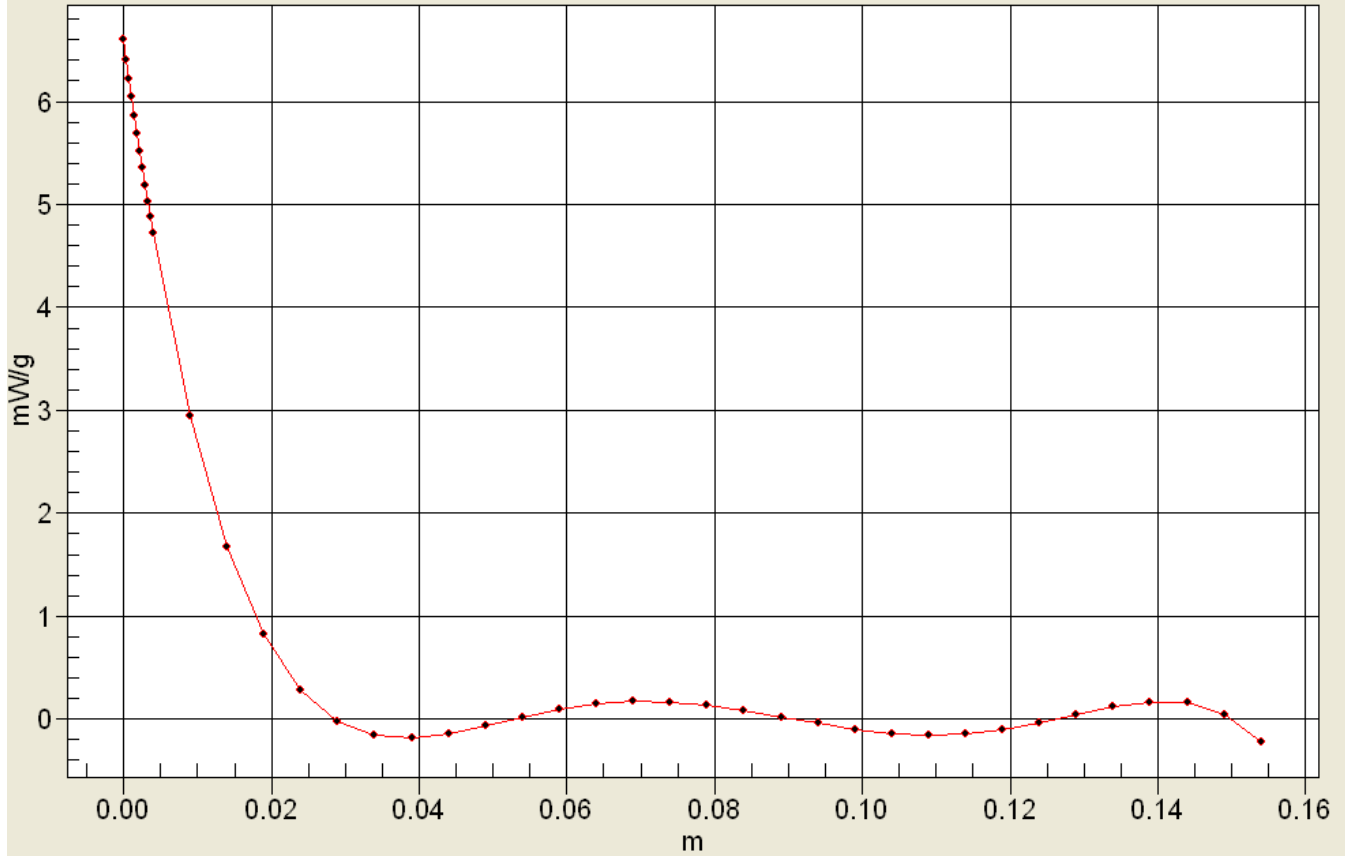
0 dB = 6.95mW/g



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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

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Test Laboratory: Comptest/Kyocera

Date: 03/27/2012

1900MHz Validation (Muscle) @ 20dBm Probe 3036, DAE 675 and Dipole 5d016

Communication System: CW, Frequency: 1900 MHz, Duty Cycle: 1:1
 Medium: M1800, Medium parameters used (interpolated): $f = 1900$ MHz; $\sigma = 1.53$ mho/m; $\epsilon_r = 51.8$; $\rho = 1000$ kg/m³
 Phantom: SAM 12, Phantom section: Flat Section

DASY4 Configuration:

Probe: ES3DV3 - SN3036, ConvF(4.57, 4.57, 4.57), Calibrated: 5/11/2011
 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

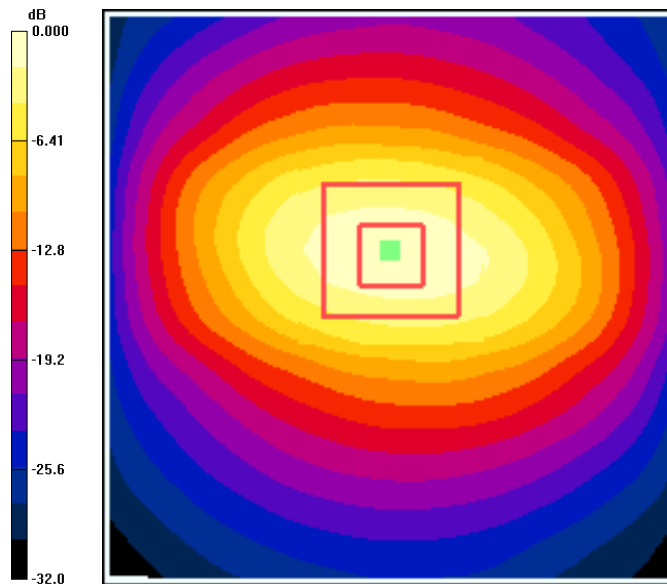
Temperature:

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) = 5.28 mW/g

1900MHz Validation @20dBm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
 Reference Value = 47.3 V/m; Power Drift = 0.125 dB
 Peak SAR (extrapolated) = 7.73 W/kg

SAR(1 g) = 4.27 mW/g; SAR(10 g) = 2.23 mW/g
 Maximum value of SAR (measured) = 4.87 mW/g

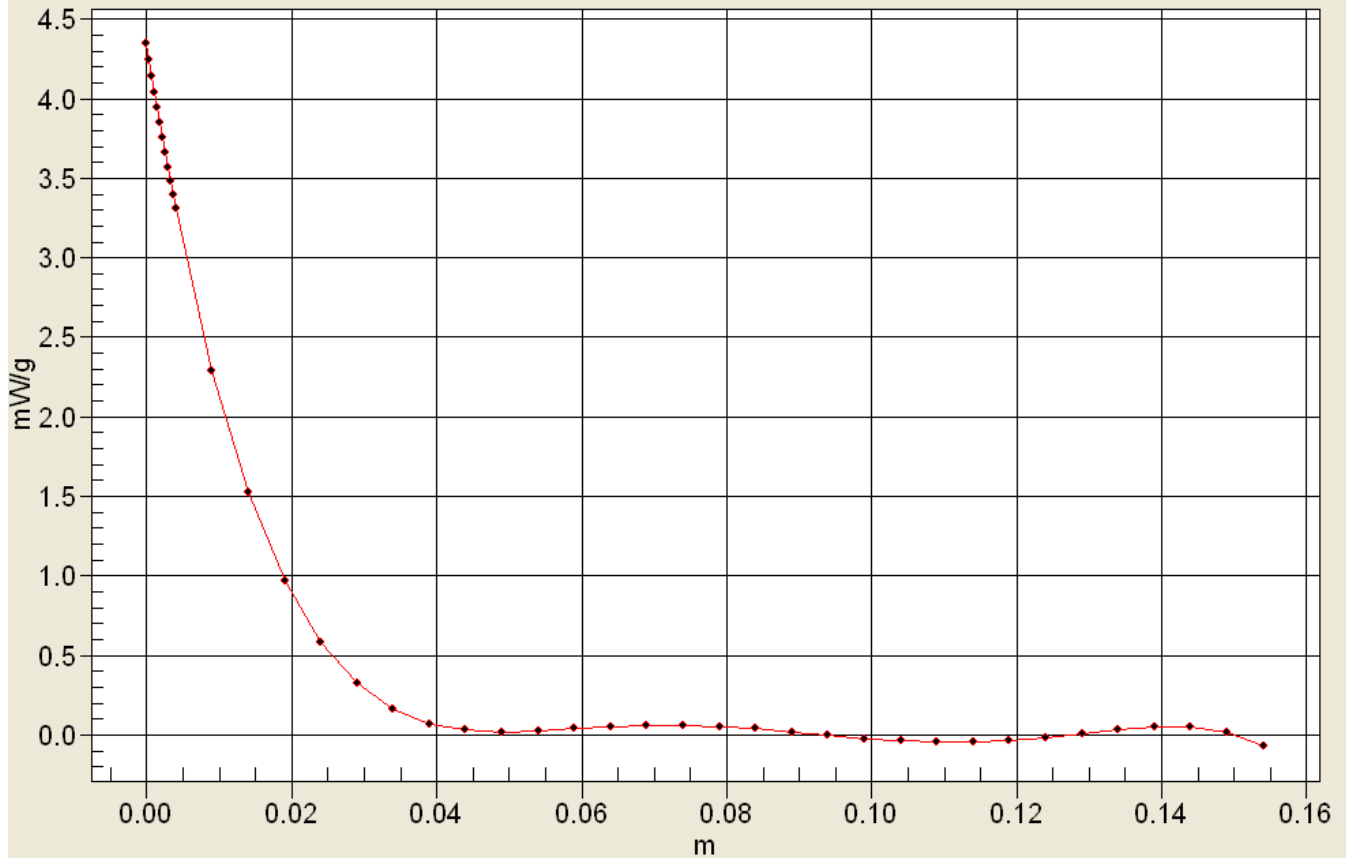




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Interpolated SAR(x,y,z,f0)

SAR; Z Scan: Value Along Z, X=0, Y=0



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Test Laboratory: Comptest/Kyocera

Date: 03/28/2012

1900MHz Validation (Muscle) @ 20dBm Probe 3036, DAE 675 and Dipole 5d016

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

Medium: M1800, Medium parameters used (interpolated): $f = 1900$ MHz; $\sigma = 1.52$ mho/m; $\epsilon_r = 51.5$; $\rho = 1000$ kg/m³

Phantom: SAM 12, Phantom section: Flat Section

DASY4 Configuration:

Probe: ES3DV3 - SN3036, ConvF(4.57, 4.57, 4.57), Calibrated: 5/11/2011

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 \pm 1 deg C, Liquid T = 22.0 \pm 1 deg C

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

Maximum value of SAR (interpolated) = 5.16 mW/g

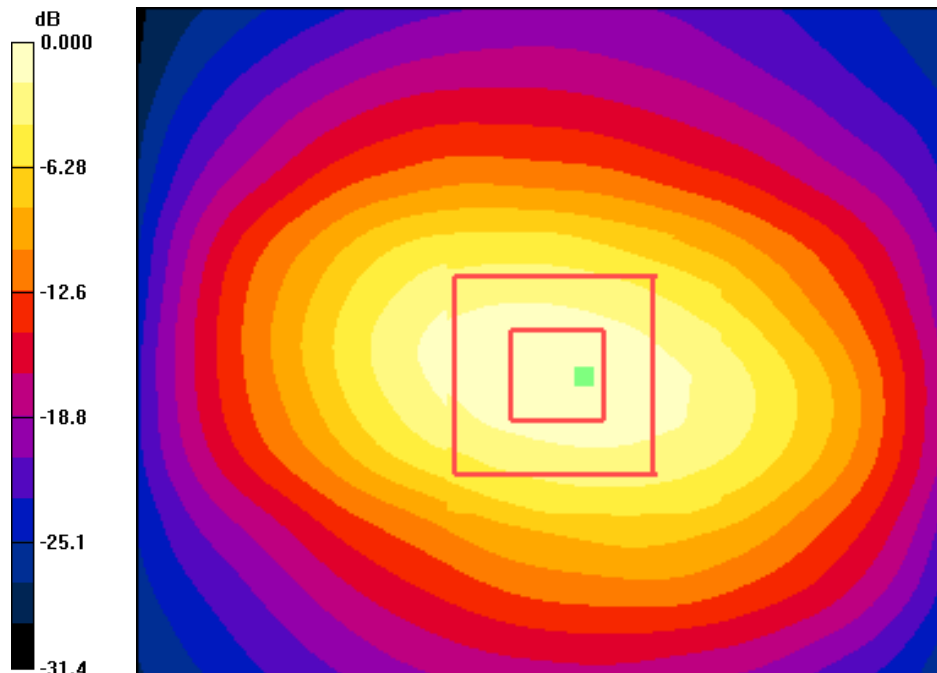
1900MHz Validation @20dBm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 52.7 V/m; Power Drift = 0.016 dB

Peak SAR (extrapolated) = 7.65 W/kg

SAR(1 g) = 4.26 mW/g; SAR(10 g) = 2.23 mW/g

Maximum value of SAR (measured) = 4.81 mW/g



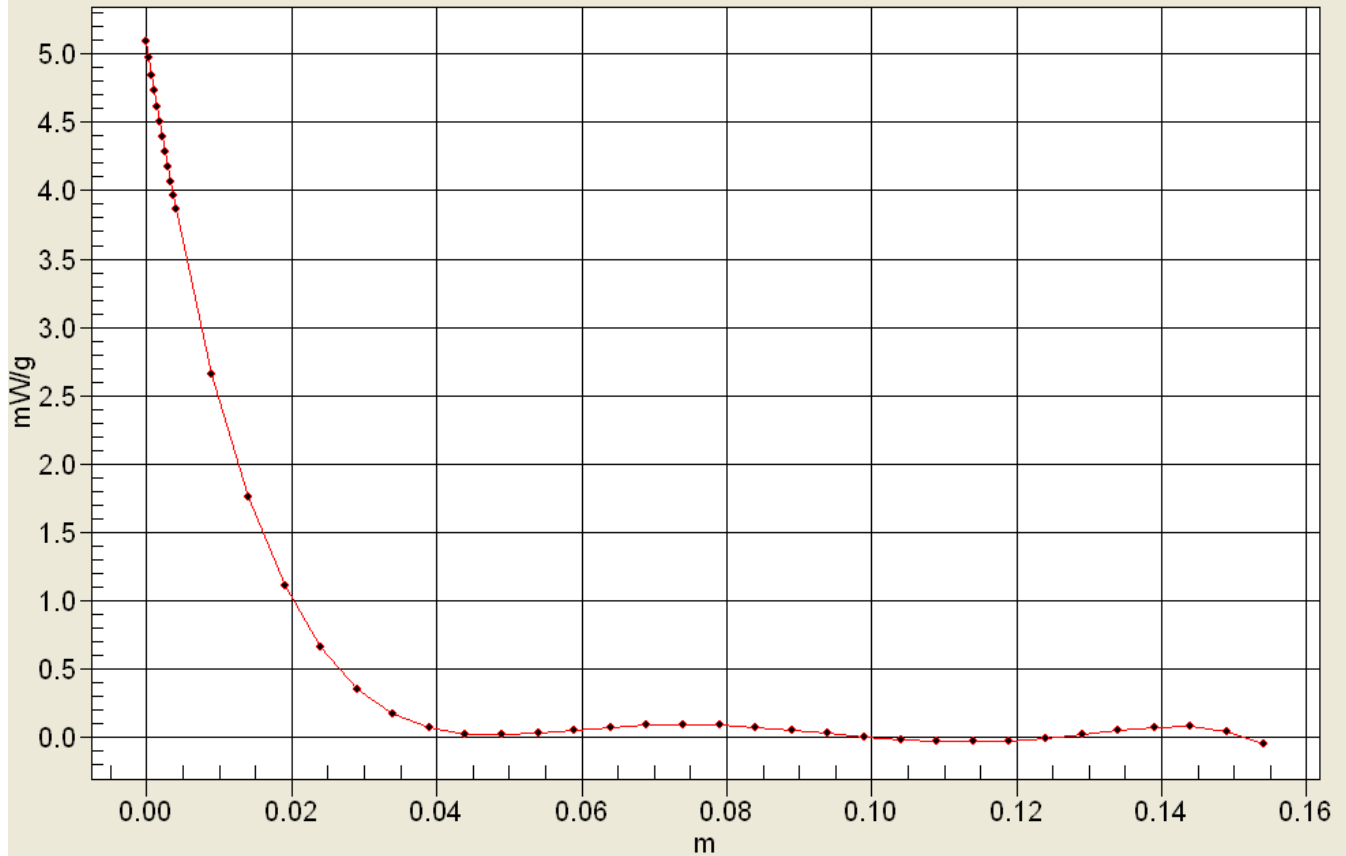
0 dB = 5.16mW/g



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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: 04/02/2012

2450MHz Validation (in Muscle), Probe #3078, DAE #530, Dipole #776

Communication System: CW, Frequency: 2450 MHz, Duty Cycle: 1:1
 Medium: M2450, Medium parameters used (interpolated): $f = 2450$ MHz; $\sigma = 2.01$ mho/m; $\epsilon_r = 50.6$; $\rho = 1000$ kg/m³
 Phantom: SAM 12, Phantom section: Flat Section

DASY4 Configuration:

Probe: ES3DV3 - SN3078, ConvF(4.16, 4.16, 4.16), Calibrated: 9/19/2011
 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 \pm 1 deg C, Liquid T = 22.0 \pm 1 deg C

2450MHz Validation @20dBm/Area Scan (61x71x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (interpolated) = 6.94 mW/g

2450MHz Validation @20dBm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
 Reference Value = 48.2 V/m; Power Drift = 0.022 dB
 Peak SAR (extrapolated) = 12.1 W/kg

SAR(1 g) = 5.54 mW/g; SAR(10 g) = 2.49 mW/g

Maximum value of SAR (measured) = 6.29 mW/g





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Interpolated SAR(x,y,z,f0)

SAR; Z Scan: Value Along Z, X=0, Y=0

