

Applicant:	Kyocera
FCC ID:	V65E4233
Report #:	CT- E4233-9A-1111-R0

EXHIBIT 9 APPENDIX A: SAR VALIDATION PLOTS

Validation for HEAD

Applicant:	Kyocera
FCC ID:	V65E4233
Report #:	CT- E4233-9A-1111-R0

Test Laboratory: Comptest/Kyocera

Date: 10/25/2011

835MHz Validation @ 20dbm, Probe #1618, DAE#602, Dipole #467

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

Medium: Head 835 MHz, Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.89 \text{ mho/m}$; $\epsilon_r = 40.7$; $\rho = 1000 \text{ kg/m}^3$

Phantom: SAM 12, Phantom section: Flat Section

DASY4 Configuration:

Probe: ET3DV6 - SN1618, ConvF(6.31, 6.31, 6.31), Calibrated: 9/19/2011

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

Electronics: DAE4 Sn602, Calibrated: 9/16/2011

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) = 1.02 mW/g

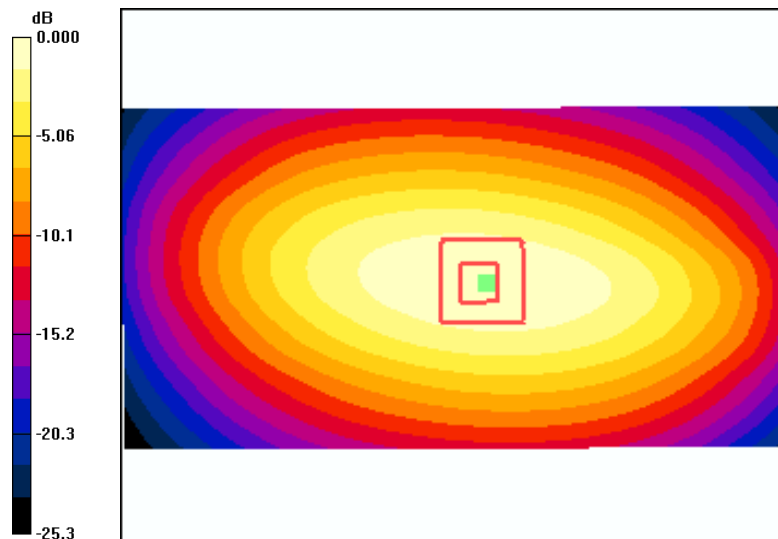
835MHz Validation/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 35.2 V/m; Power Drift = -0.003 dB

Peak SAR (extrapolated) = 1.36 W/kg

SAR(1 g) = 0.952 mW/g; SAR(10 g) = 0.626 mW/g

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

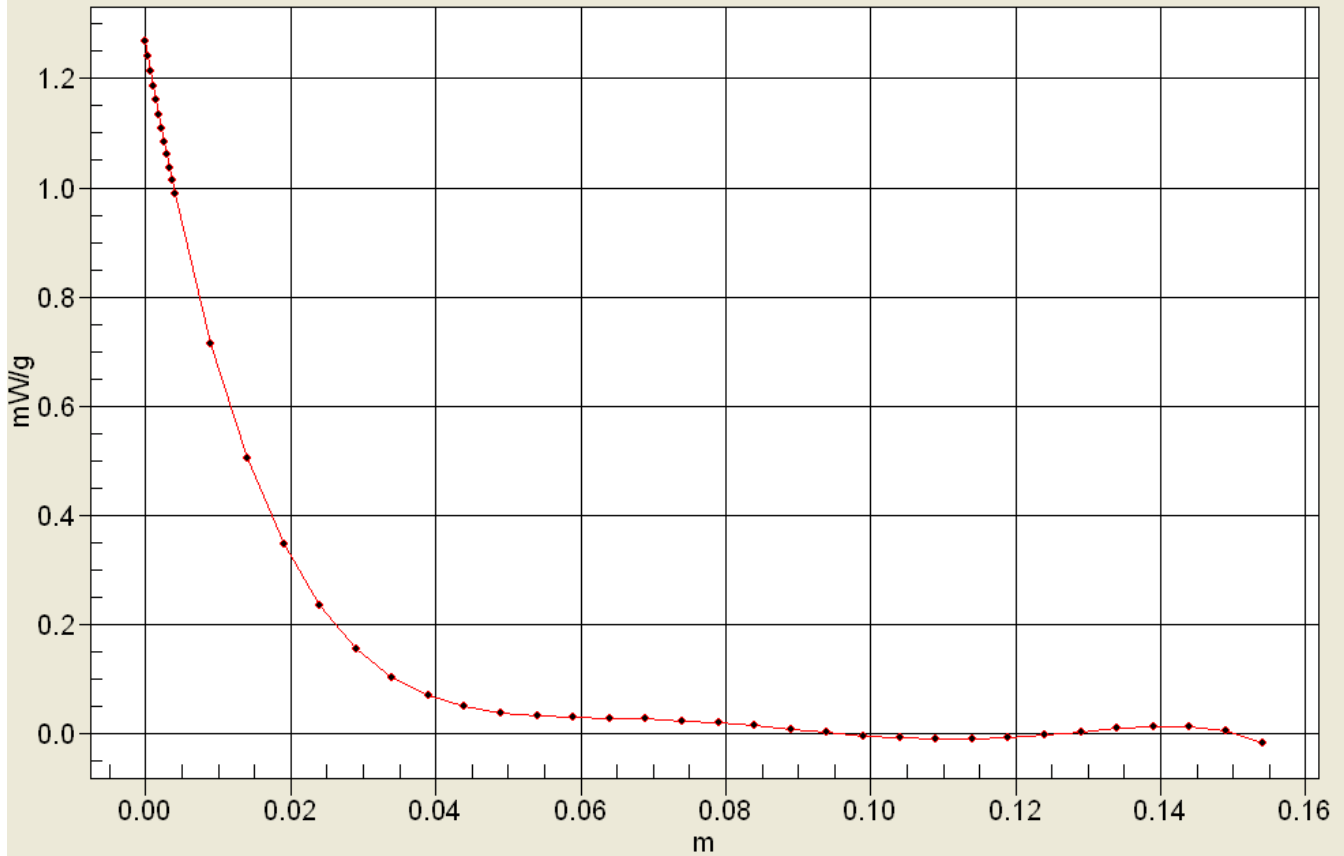


0 dB = 1.02mW/g



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



Applicant:	Kyocera
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Test Laboratory: Comptest/Kyocera

Date: 10/24/2011

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; $\sigma = 1.44$ 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 ± 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) = 4.93 mW/g

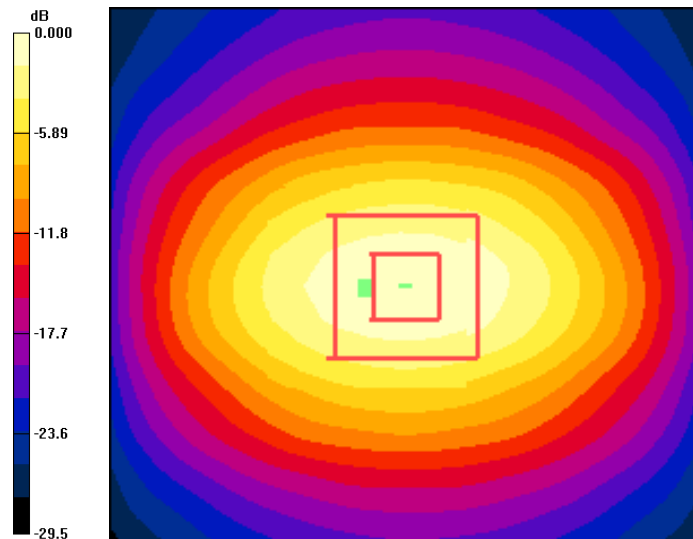
1900MHz Validation @20dBm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 56.7 V/m; Power Drift = 0.058 dB

Peak SAR (extrapolated) = 7.90 W/kg

SAR (1 g) = 4.24 mW/g; SAR(10 g) = 2.19 mW/g

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

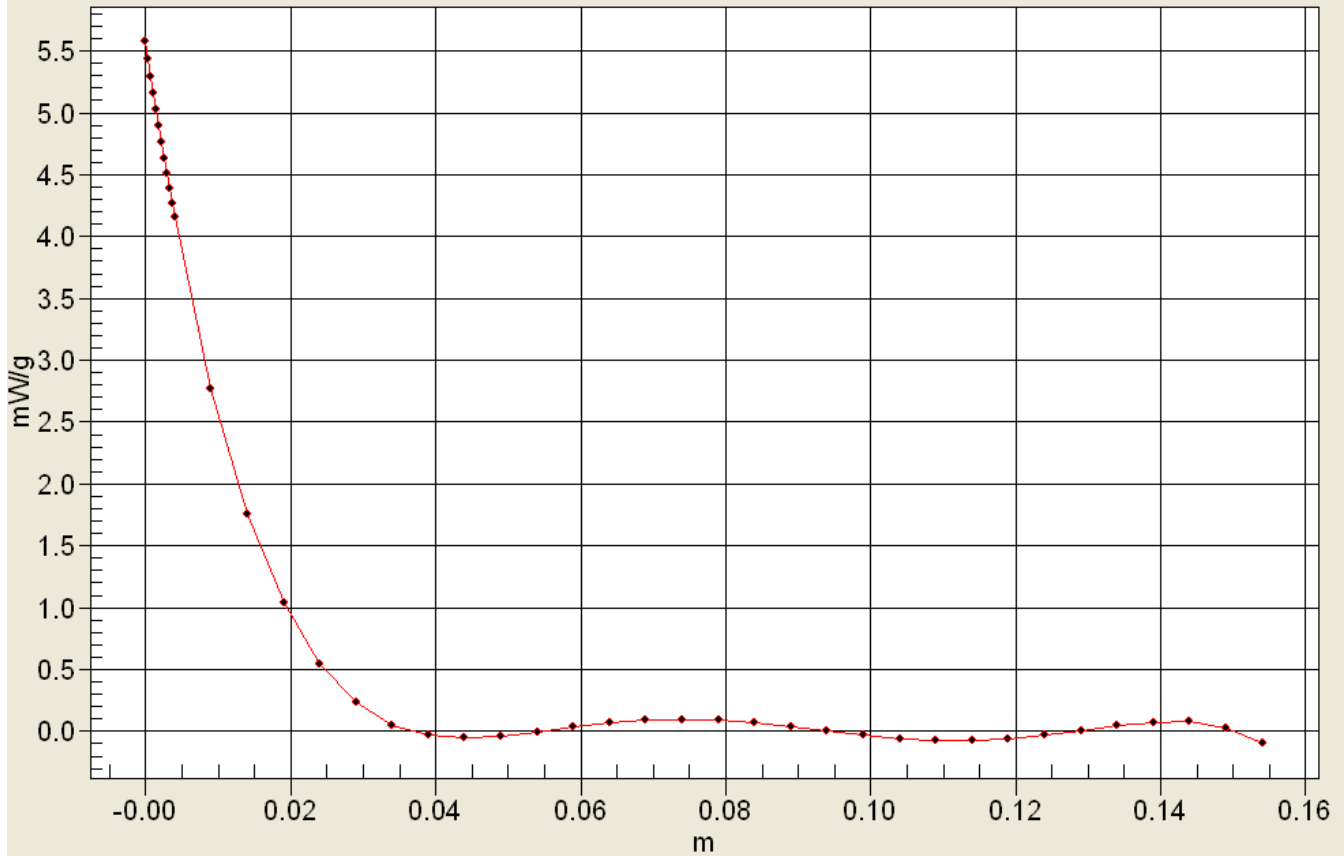


0 dB = 4.93mW/g



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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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Report #:	CT- E4233-9A-1111-R0

Test Laboratory: Comptest/Kyocera

Date: 11/01/2011

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

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

Medium: M900, Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.93 \text{ mho/m}$; $\epsilon_r = 54.1$; $\rho = 1000 \text{ kg/m}^3$

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

Maximum value of SAR (interpolated) = 1.01 mW/g

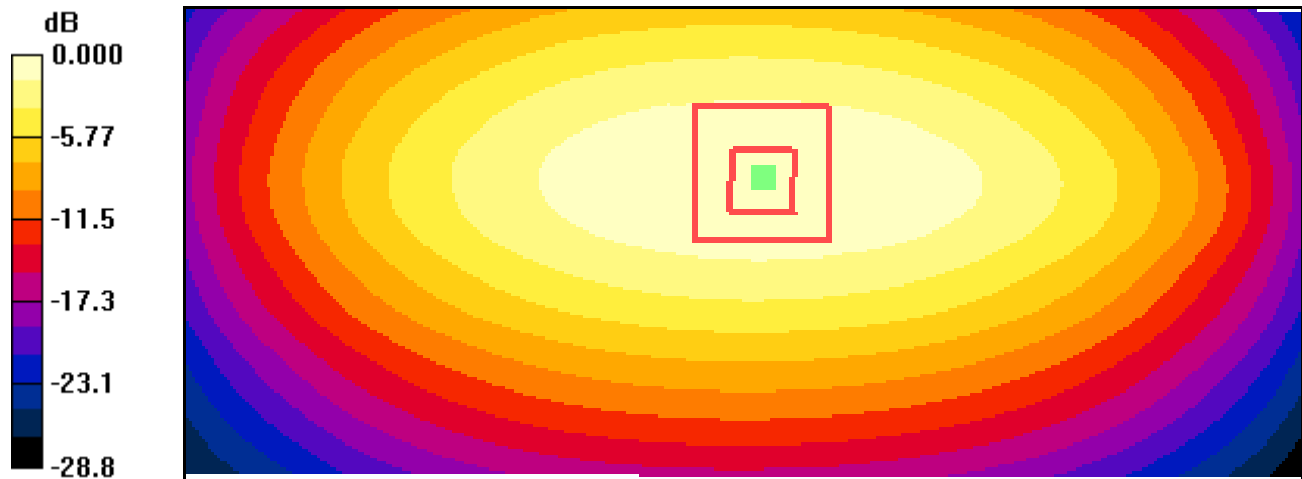
835MHz/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 31.1 V/m; Power Drift = -0.040 dB

Peak SAR (extrapolated) = 1.37 W/kg

SAR(1 g) = 0.938 mW/g; SAR(10 g) = 0.621 mW/g

Maximum value of SAR (measured) = 1.01 mW/g

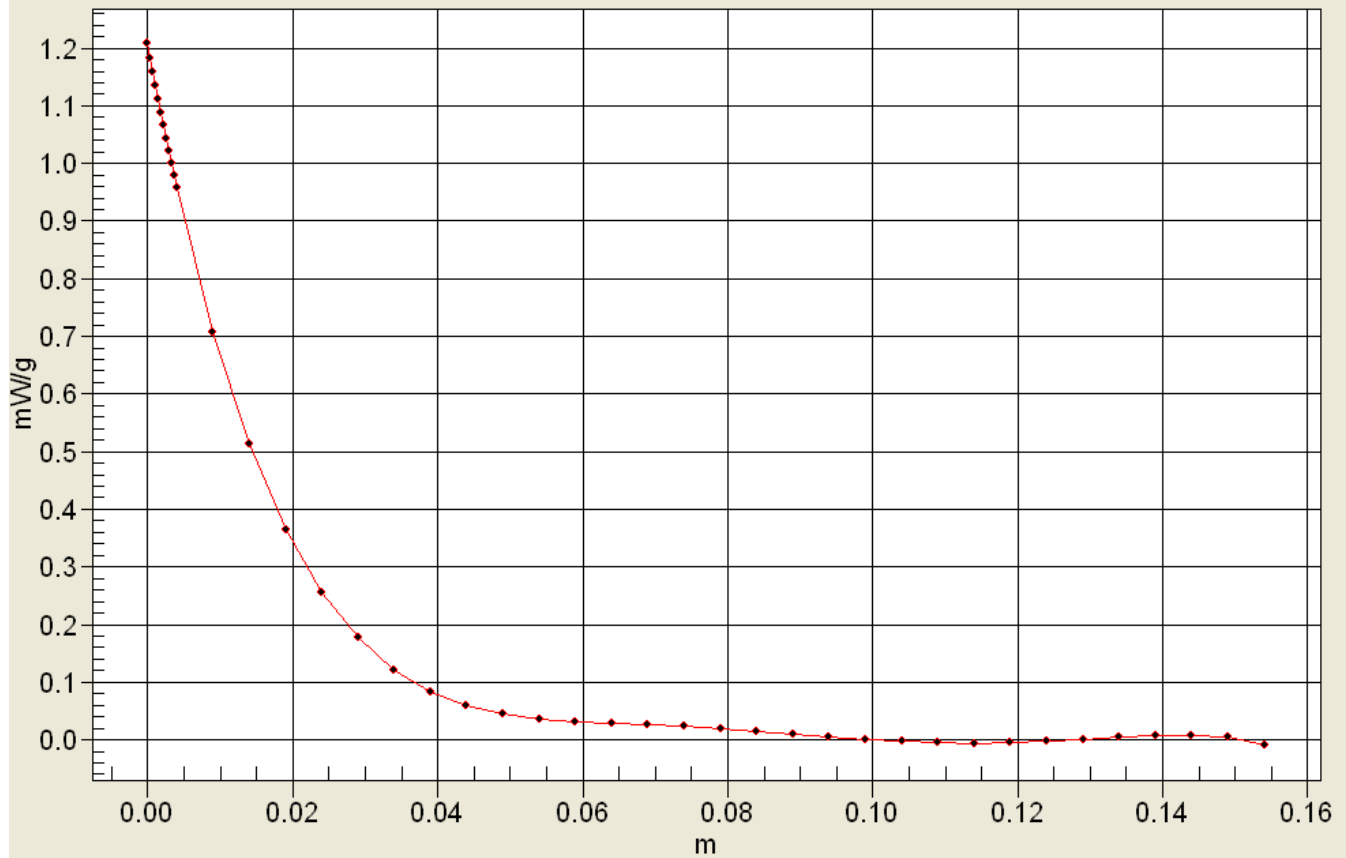


0 dB = 1.01mW/g



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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: 10/28/2011

1900MHz Validation (in Muscle) @ 20dBm Probe 3078, DAE 530 and Dipole 5d016

Communication System: CW, Frequency: 1900 MHz, Duty Cycle: 1:1
 Medium: M1900, Medium parameters used (interpolated): $f = 1900$ MHz; $\sigma = 1.52$ mho/m; $\epsilon_r = 51.8$; $\rho = 1000$ kg/m³
 Phantom: SAM 12, Phantom section: Flat Section

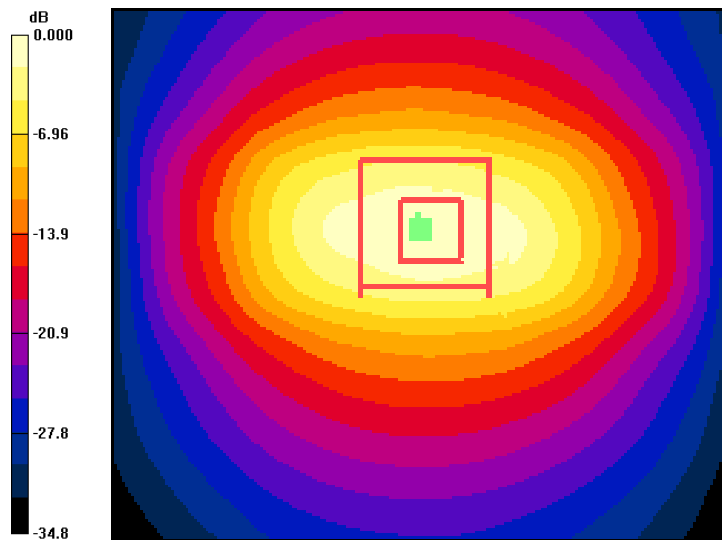
DASY4 Configuration:

Probe: ES3DV3 - SN3078, ConvF(4.49, 4.49, 4.49), 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 +/- 1 deg C, Liquid T = 22.0 +/- 1 deg C

1900MHz Validation @20dBm/Area Scan (61x71x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (interpolated) = 5.54 mW/g

1900MHz Validation @20dBm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
 Reference Value = 49.1 V/m; Power Drift = -0.085 dB
 Peak SAR (extrapolated) = 7.56 W/kg

SAR(1 g) = 4.22 mW/g; SAR(10 g) = 2.22 mW/g
 Maximum value of SAR (measured) = 4.78 mW/g

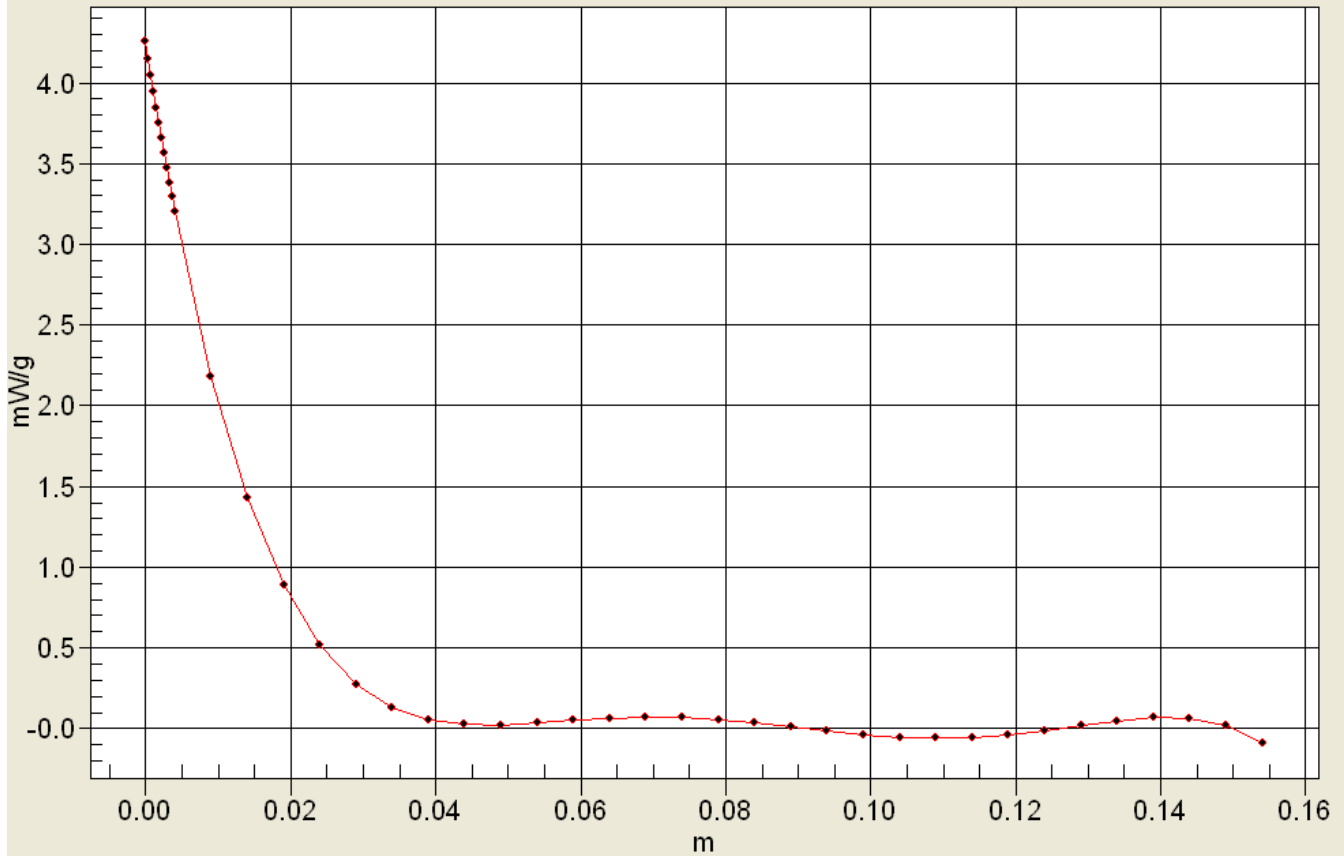


0 dB = 5.54mW/g



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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: 10/31/2011

1900Mhz Validation (in Muscle) @ 20dBm Probe 3078, DAE 530 and Dipole 5d016

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

Medium: M1900, Medium parameters used (interpolated): $f = 1900$ MHz; $\sigma = 1.49$ mho/m; $\epsilon_r = 51.9$; $\rho = 1000$ kg/m³

Phantom: SAM 12, Phantom section: Flat Section

DASY4 Configuration:

Probe: ES3DV3 - SN3078, ConvF(4.49, 4.49, 4.49), 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 +/- 1 deg C, Liquid T = 22.0 +/- 1 deg C

1900MHz Validation @20dBm/Area Scan (61x71x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 5.29 mW/g

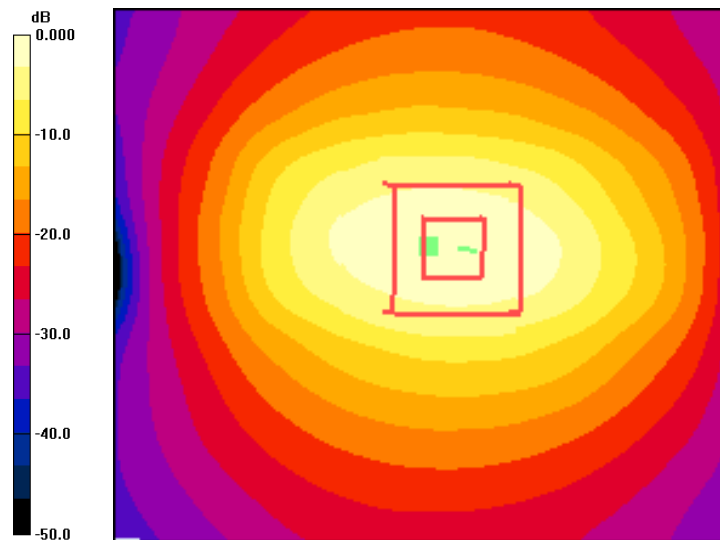
1900MHz Validation @20dBm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 53.0 V/m; Power Drift = -0.087 dB

Peak SAR (extrapolated) = 7.71 W/kg

SAR(1 g) = 4.27 mW/g; SAR(10 g) = 2.24 mW/g

Maximum value of SAR (measured) = 4.88 mW/g

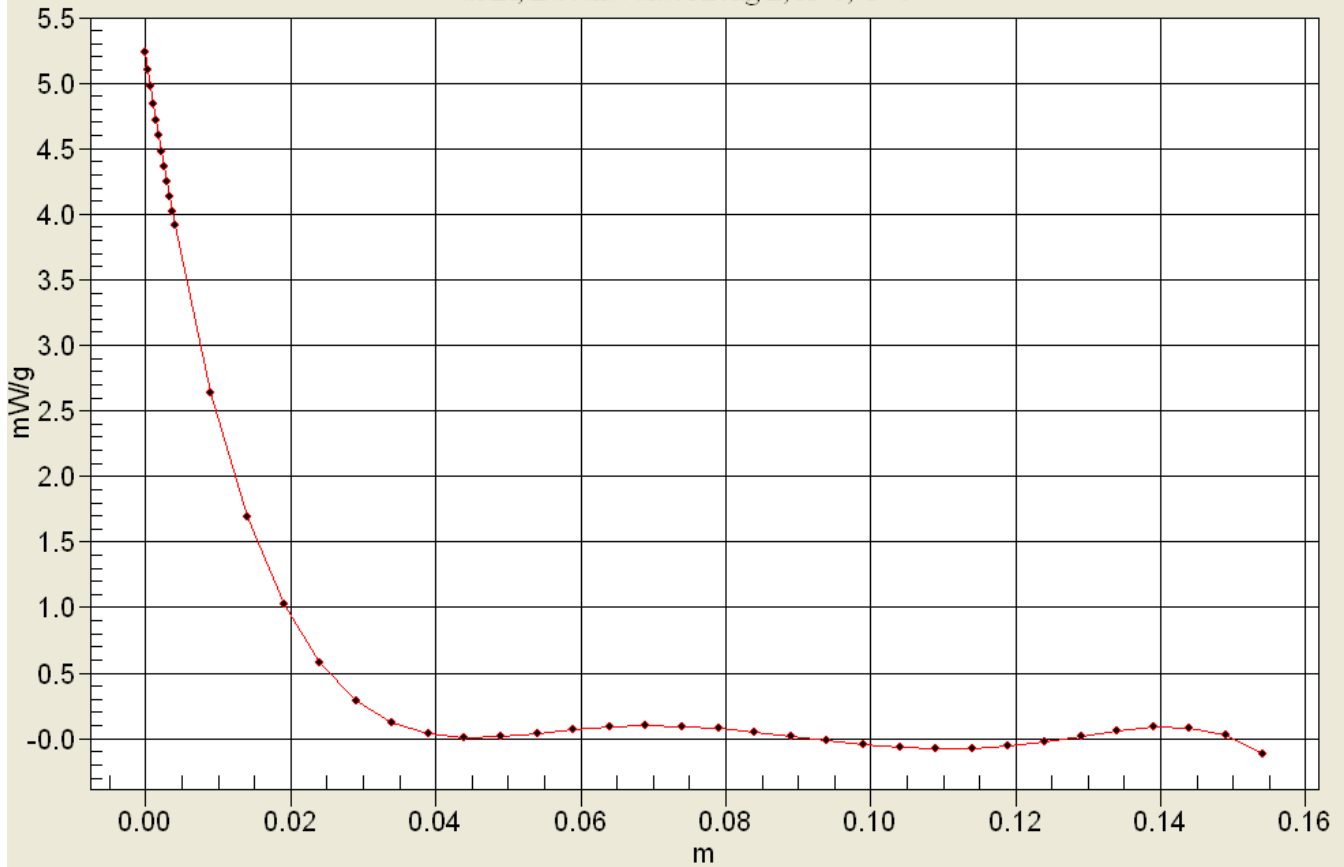


0 dB = 5.29mW/g



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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: 11/07/2011

2450MHz Validation (in Muscle) @ 20dBm Probe 3078, DAE 530 and Dipole 776

Communication System: CW, Frequency: 2450 MHz, Duty Cycle: 1:1
 Medium: M2450, Medium parameters used (interpolated): $f = 2450$ MHz; $\sigma = 2.02$ mho/m; $\epsilon_r = 50.6$; $\rho = 1000$ kg/m³
 Phantom: SAM 12, Phantom section: Flat Section

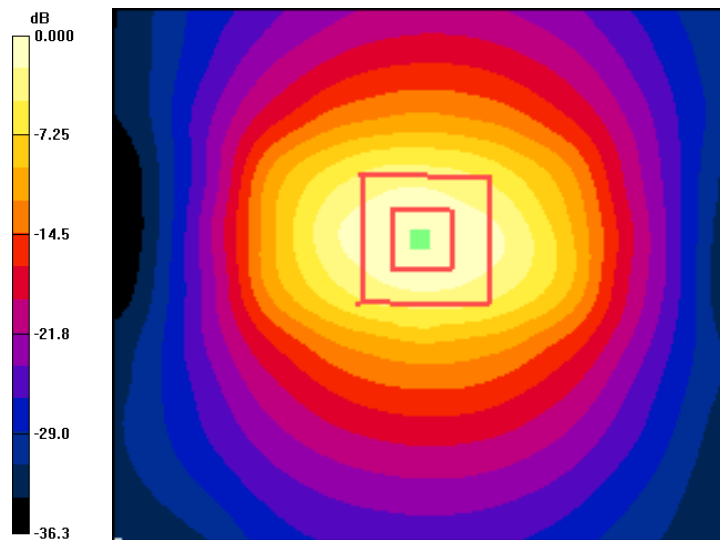
DASY4 Configuration:

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

2450MHz Validation @20dBm/Area Scan (61x71x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (interpolated) = 7.34 mW/g

2450MHz Validation @20dBm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
 Reference Value = 47.5 V/m; Power Drift = -0.052 dB
 Peak SAR (extrapolated) = 11.8 W/kg

SAR(1 g) = 5.48 mW/g; SAR(10 g) = 2.5 mW/g
 Maximum value of SAR (measured) = 6.24 mW/g



0 dB = 6.24mW/g



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

