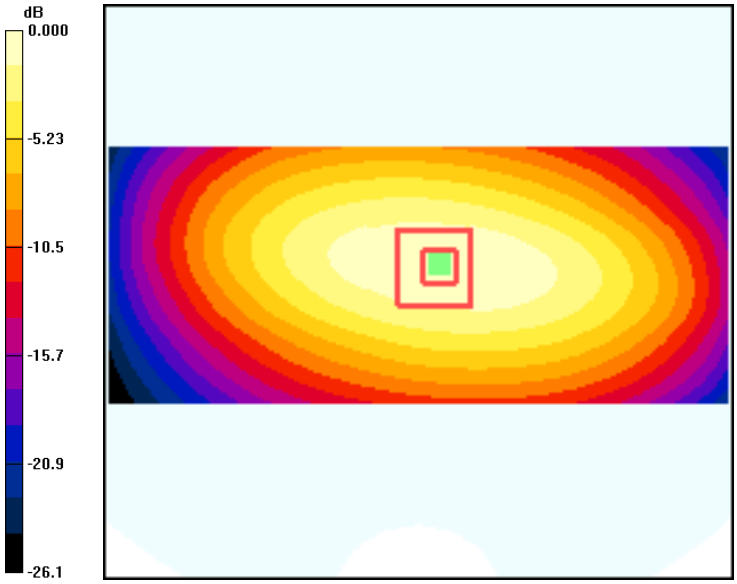
Validation for HEAD

Test Laboratory: Comptest/Kyocera Date: 11/15/2012

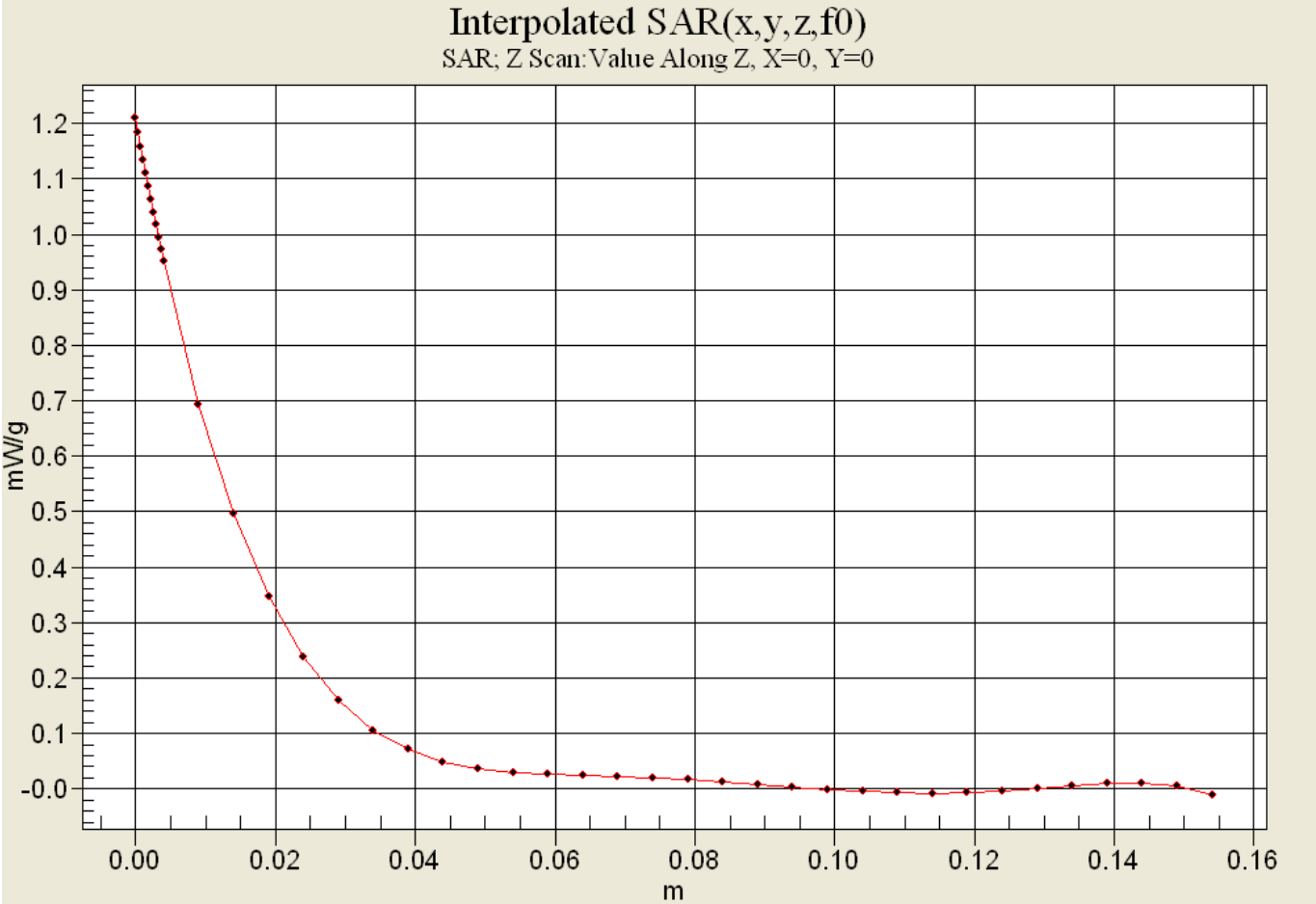
835MHz Validation , Probe #3035, DAE #530, Dipole #467
Communication System: CW, Frequency: 835 MHz, Duty Cycle: 1:1
Medium: Head 835 MHz,Medium parameters used (interpolated): f = 835 MHz; σ = 0.9 mho/m; ε_r = 40.7; ρ = 1000 kg/m^3
Phantom: SAM 12,Phantom section: Flat Section
DASY4 Configuration:
Probe: ES3DV3 - SN3035, ConvF(6.04, 6.04, 6.04), Calibrated: 2/22/2012
Sensor-Surface: 4mm (Mechanical Surface Detection),
Electronics: DAE4 Sn530,Calibrated: 5/30/2012
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) = 1.09 mW/g

835MHz/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 35.0 V/m; Power Drift = -0.178 dB
Peak SAR (extrapolated) = 1.49 W/kg
SAR(1 g) = 0.992 mW/g; SAR(10 g) = 0.645 mW/g
Maximum value of SAR (measured) = 1.08 mW/g



0 dB = 1.09mW/g

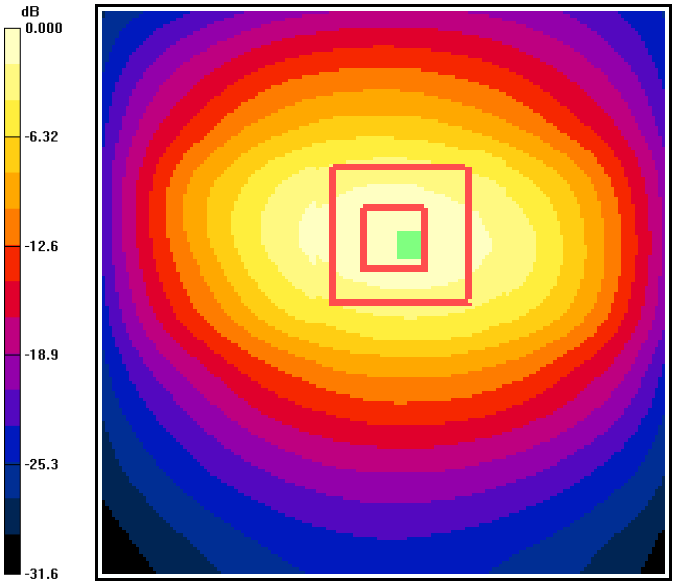


Test Laboratory: Comptest/Kyocera Date: 11/14/2012

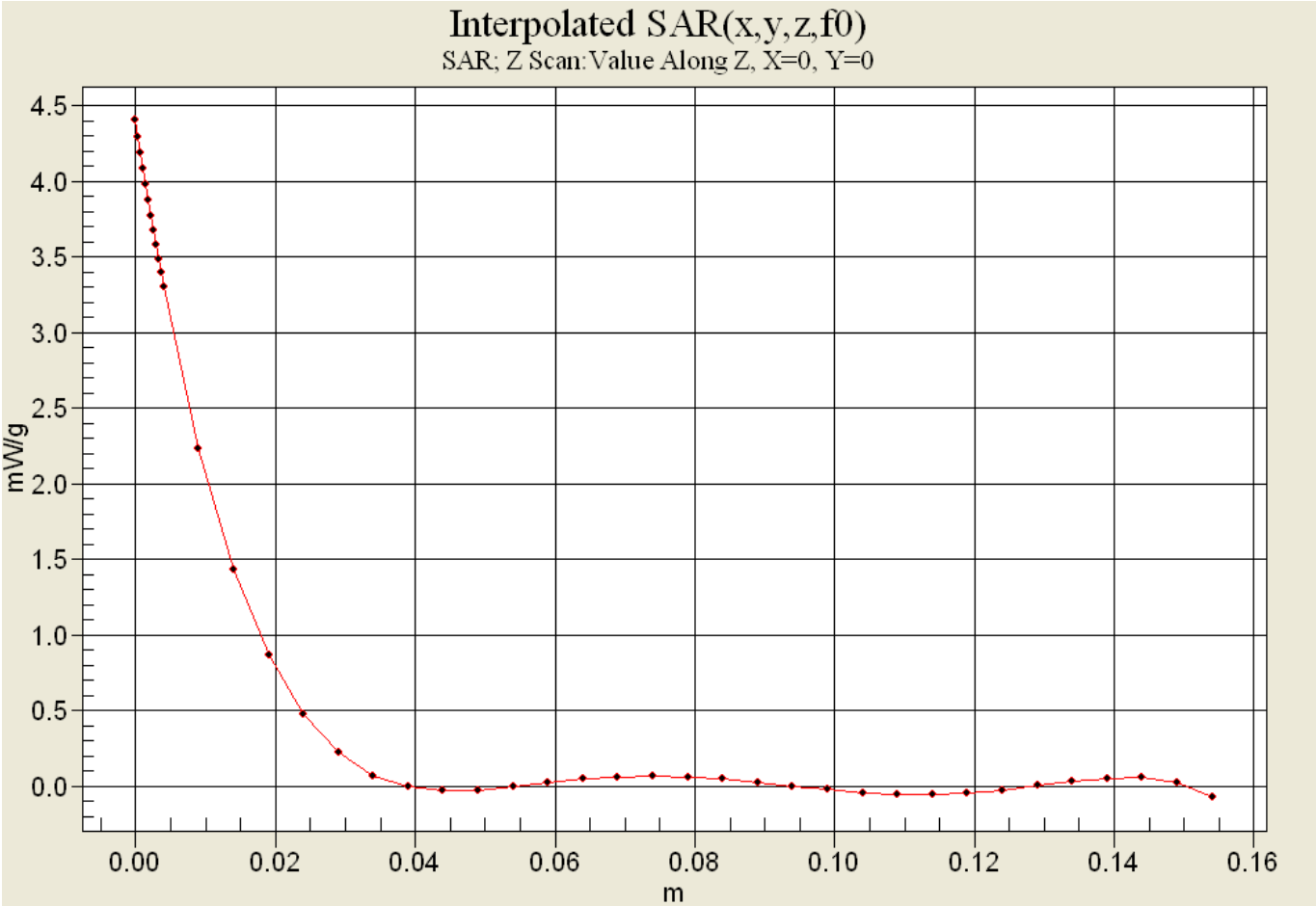
1900Mhz Validation @ 20dBm Probe 1618, DAE 675 and Dipole 5d016
Communication System: CW, Frequency: 1900 MHz, Duty Cycle: 1:1
Medium: HSL1900,Medium parameters used (interpolated): f = 1900 MHz; σ = 1.46 mho/m; ε_r = 38; ρ = 1000 kg/m^3
Phantom: SAM 12,Phantom section: Flat Section
DASY4 Configuration:
Probe: ET3DV6 - SN1618, ConvF(5.17, 5.17, 5.17), Calibrated: 9/13/2012
Sensor-Surface: 4mm (Mechanical Surface Detection),
Electronics: DAE4 Sn675,Calibrated: 5/23/2012
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) = 4.61 mW/g

1900MHz Validation @20dBm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 50.9 V/m; Power Drift = -0.100 dB
Peak SAR (extrapolated) = 6.27 W/kg
SAR(1 g) = 3.75 mW/g; SAR(10 g) = 1.98 mW/g
Maximum value of SAR (measured) = 4.20 mW/g



0 dB = 4.61mW/g



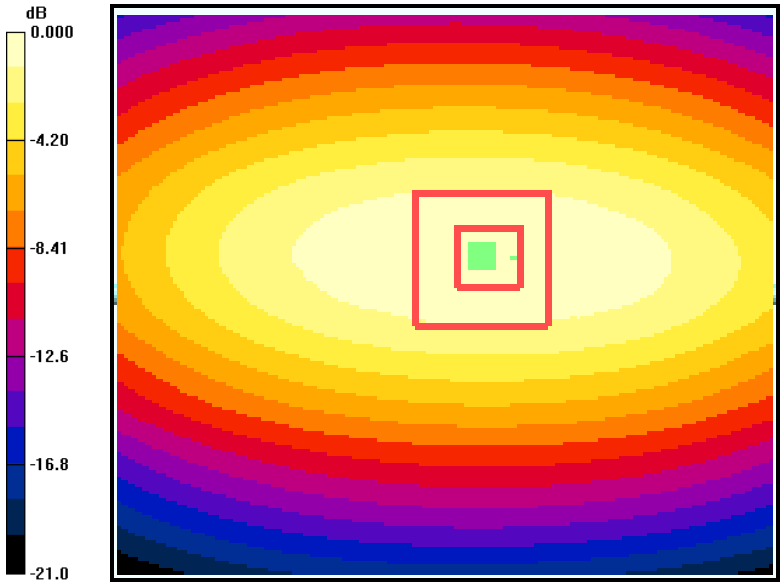
Validation for BODY

Test Laboratory: Comptest/Kyocera Date: 11/16/2012

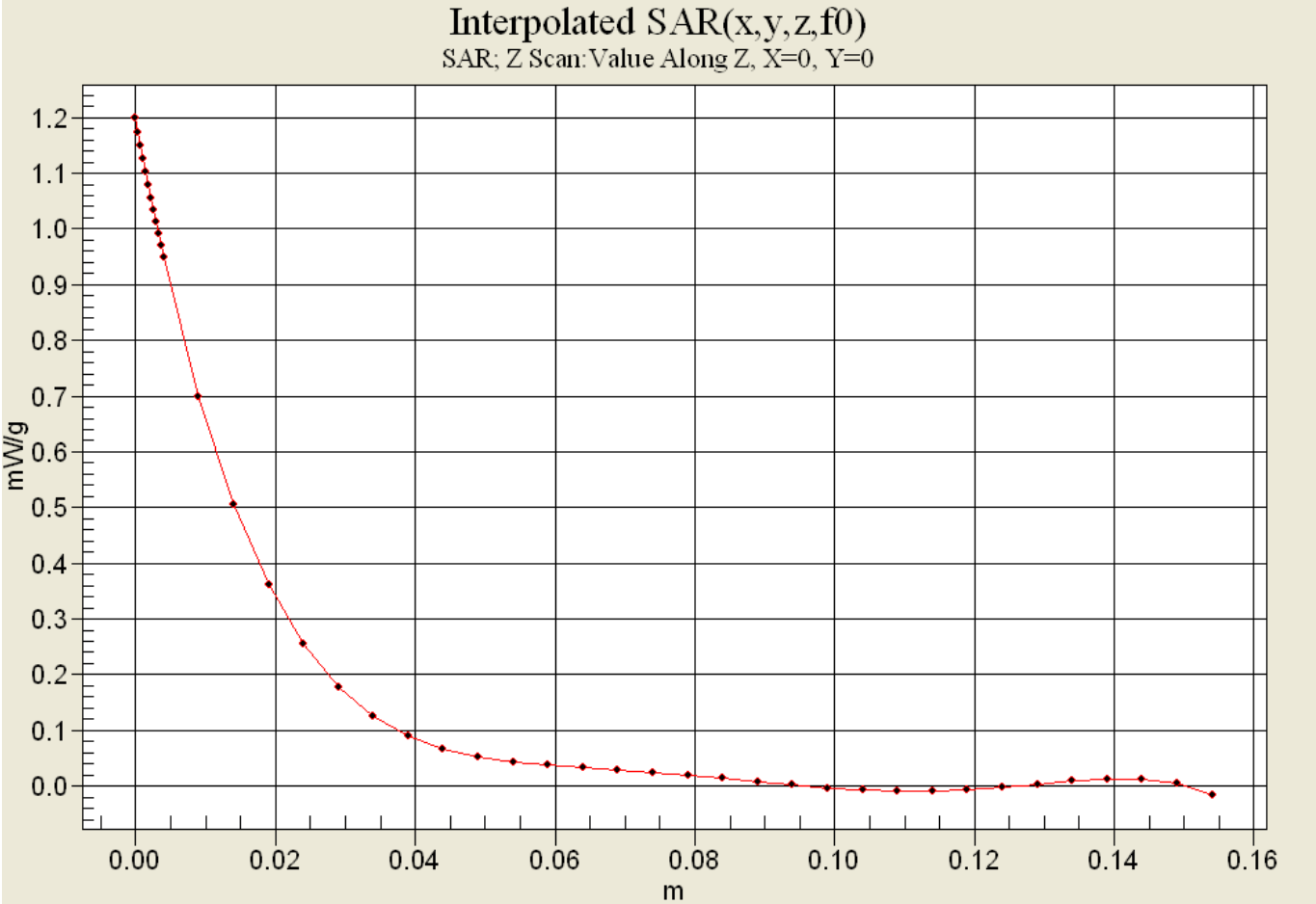
835MHz Validation(Muscle), Probe #3036, DAE #603, Dipole #5d016
Communication System: CW, Frequency: 835 MHz, Duty Cycle: 1:1
Medium: M800,Medium parameters used: f = 835 MHz; σ = 0.95 mho/m; ε_r = 53.8; ρ = 1000 kg/m^3
Phantom: SAM 12,Phantom section: Flat Section
DASY4 Configuration:
Probe: ES3DV3 - SN3036, ConvF(5.83, 5.83, 5.83), Calibrated: 5/29/2012
Sensor-Surface: 4mm (Mechanical Surface Detection),
Electronics: DAE4 Sn603,Calibrated: 9/27/2011
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 @20dBm/Area Scan (61x71x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 1.06 mW/g

835MHz Validation @20dBm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 31.9 V/m; Power Drift = 0.038 dB
Peak SAR (extrapolated) = 1.43 W/kg
SAR(1 g) = 0.986 mW/g; SAR(10 g) = 0.653 mW/g
Maximum value of SAR (measured) = 1.07 mW/g



0 dB = 1.06mW/g

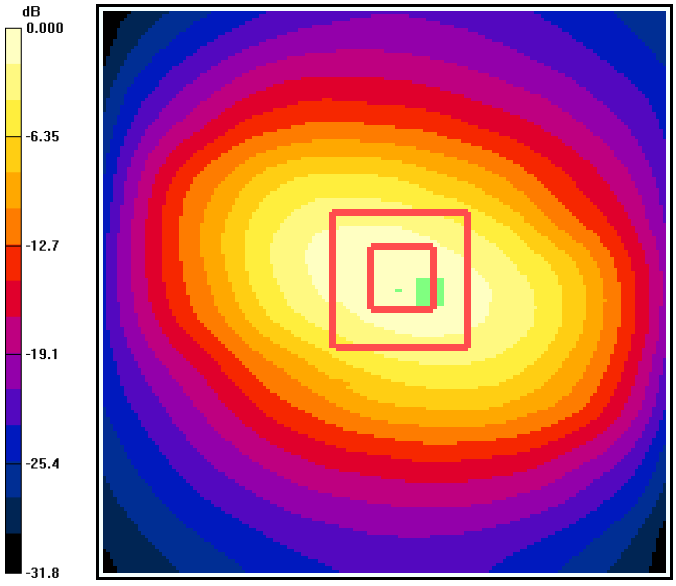


Test Laboratory: Comptest/Kyocera Date: 11/19/2012

1900Mhz Validation (Muscle) @ 20dBm Probe 1618, DAE 675 and Dipole 5d016
Communication System: CW, Frequency: 1900 MHz, Duty Cycle: 1:1
Medium: M1800,Medium parameters used (interpolated): f = 1900 MHz; σ = 1.55 mho/m; ε_r = 51.3; ρ = 1000 kg/m^3
Phantom: SAM 12,Phantom section: Flat Section
DASY4 Configuration:
Probe: ET3DV6 - SN1618, ConvF(4.42, 4.42, 4.42), Calibrated: 9/13/2012
Sensor-Surface: 4mm (Mechanical Surface Detection),
Electronics: DAE4 Sn675,Calibrated: 5/23/2012
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(Muscle) Validation @20dBm/Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 4.58 mW/g

1900MHz(Muscle) Validation @20dBm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 57.0 V/m; Power Drift = -0.048 dB
Peak SAR (extrapolated) = 5.71 W/kg
SAR(1 g) = 3.77 mW/g; SAR(10 g) = 2.06 mW/g
Maximum value of SAR (measured) = 4.28 mW/g



0 dB = 4.58mW/g