Validation for HEAD

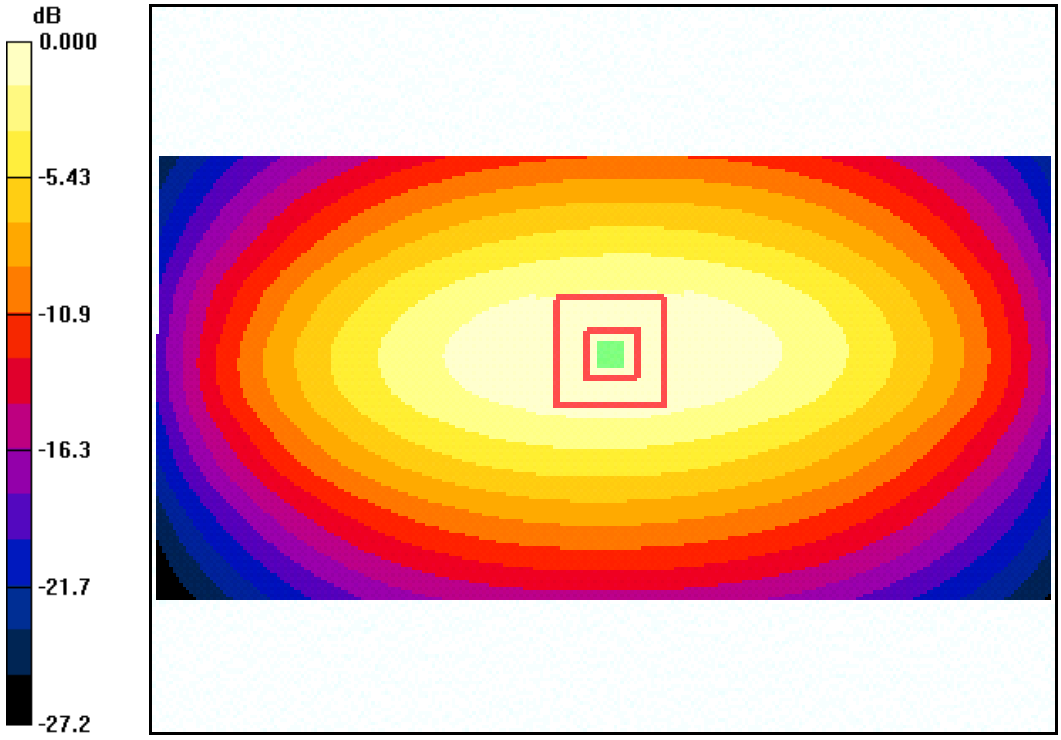
Test Laboratory: Comptest/Kyocera Date: 01/12/2011

835MHz Validation @ 20dbm, Probe #1618, DAE#530, Dipole #4d019
Communication System: CDMA, Frequency: 835 MHz, Duty Cycle: 1:1
Medium: Head 835 MHz,Medium parameters used: f = 835 MHz; σ = 0.91 mho/m; ε_r = 41.3; ρ = 1000 kg/m^3
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: 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

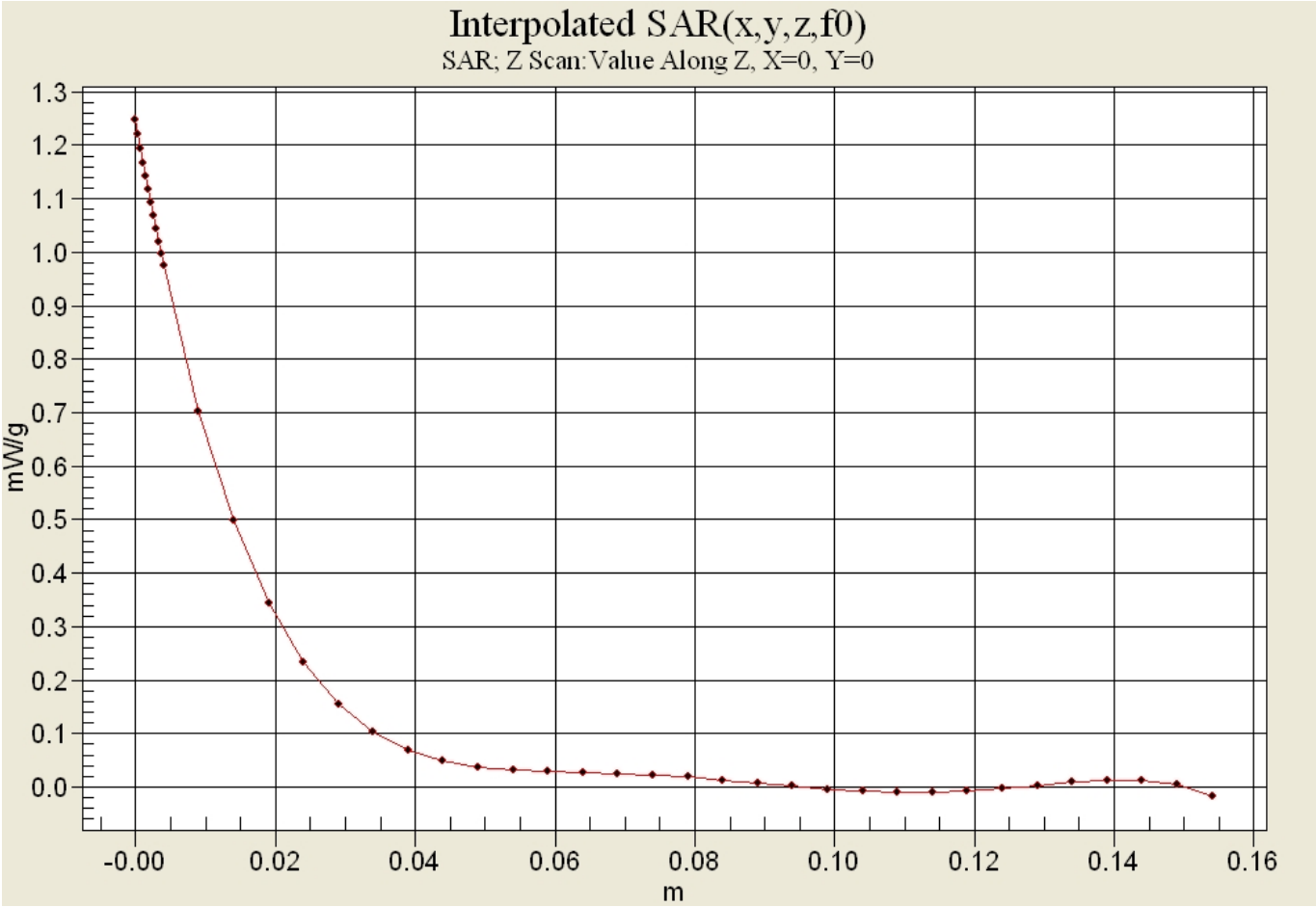
835MHz Validation/Area Scan (61x121x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 1.04 mW/g

835MHz Validation/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 33.9 V/m; Power Drift = 0.057 dB
Peak SAR (extrapolated) = 1.42 W/kg
SAR(1 g) = 0.965 mW/g; SAR(10 g) = 0.630 mW/g
Maximum value of SAR (measured) = 1.04 mW/g



0 dB = 1.04mW/g

835MHz Z-Scan

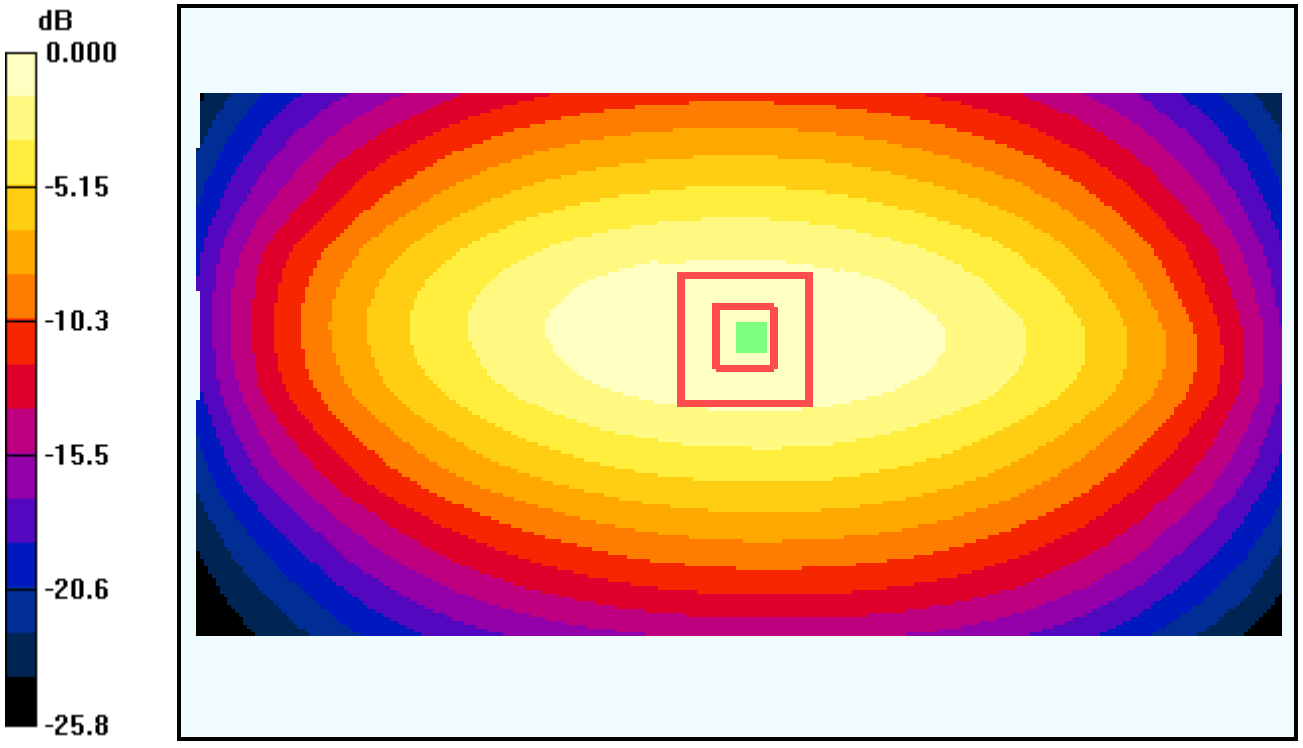


Test Laboratory: Comptest/Kyocera Date: 01/13/2011

835MHz Validation @ 20dbm, Probe #1618, DAE#530, Dipole #4d019
Communication System: CDMA, Frequency: 835 MHz, Duty Cycle: 1:1
Medium: Head 835 MHz,Medium parameters used: f = 835 MHz; σ = 0.9 mho/m; ε_r = 40.5; ρ = 1000 kg/m^3
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: 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

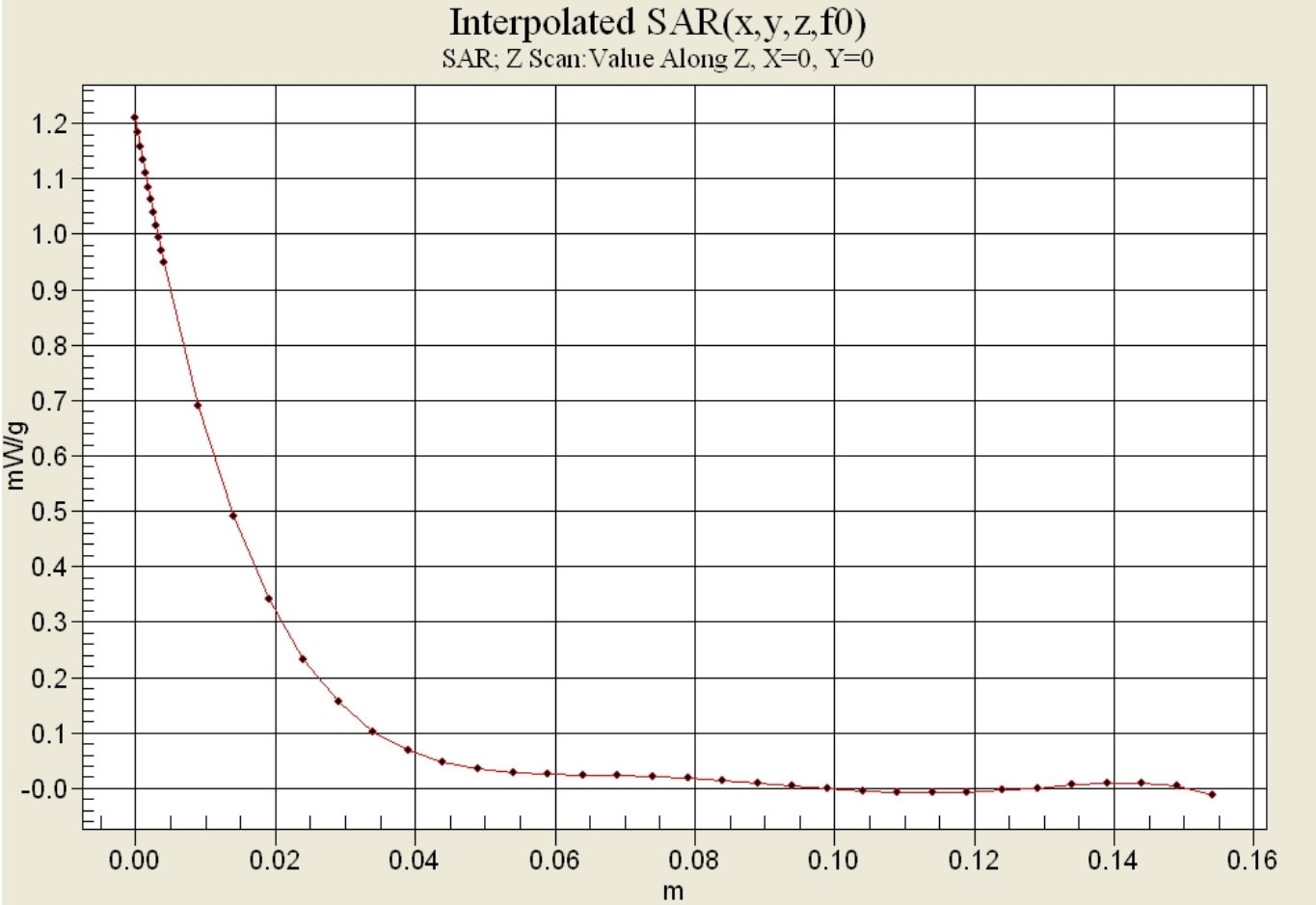
835MHz Validation/Area Scan (61x121x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 1.02 mW/g

835MHz Validation/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 34.5 V/m; Power Drift = -0.156 dB
Peak SAR (extrapolated) = 1.39 W/kg
SAR(1 g) = 0.951 mW/g; SAR(10 g) = 0.622 mW/g
Maximum value of SAR (measured) = 1.03 mW/g



0 dB = 1.03mW/g

835 MHz Z-Scan



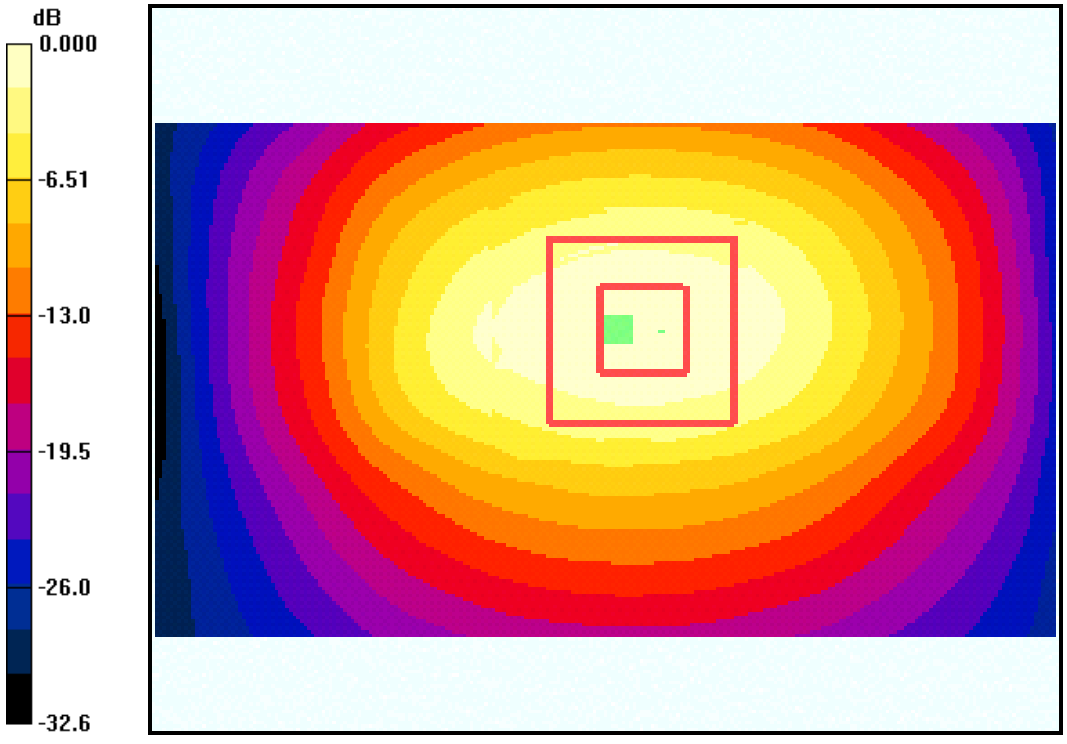
Test Laboratory: Comptest/Kyocera Date: 01/14/2011

1800MHz Validation, Probe #3078, DAE #602, Dipole #220
Communication System: CW 1800Mhz, Frequency: 1800 MHz, Duty Cycle: 1:1
Medium: H1800,Medium parameters used: f = 1800 MHz; σ = 1.4 mho/m; ε_r = 39; ρ = 1000 kg/m^3
Phantom: SAM 12,Phantom section: Flat Section

DASY4 Configuration:
Probe: ES3DV3 - SN3078, ConvF(4.97, 4.97, 4.97), 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

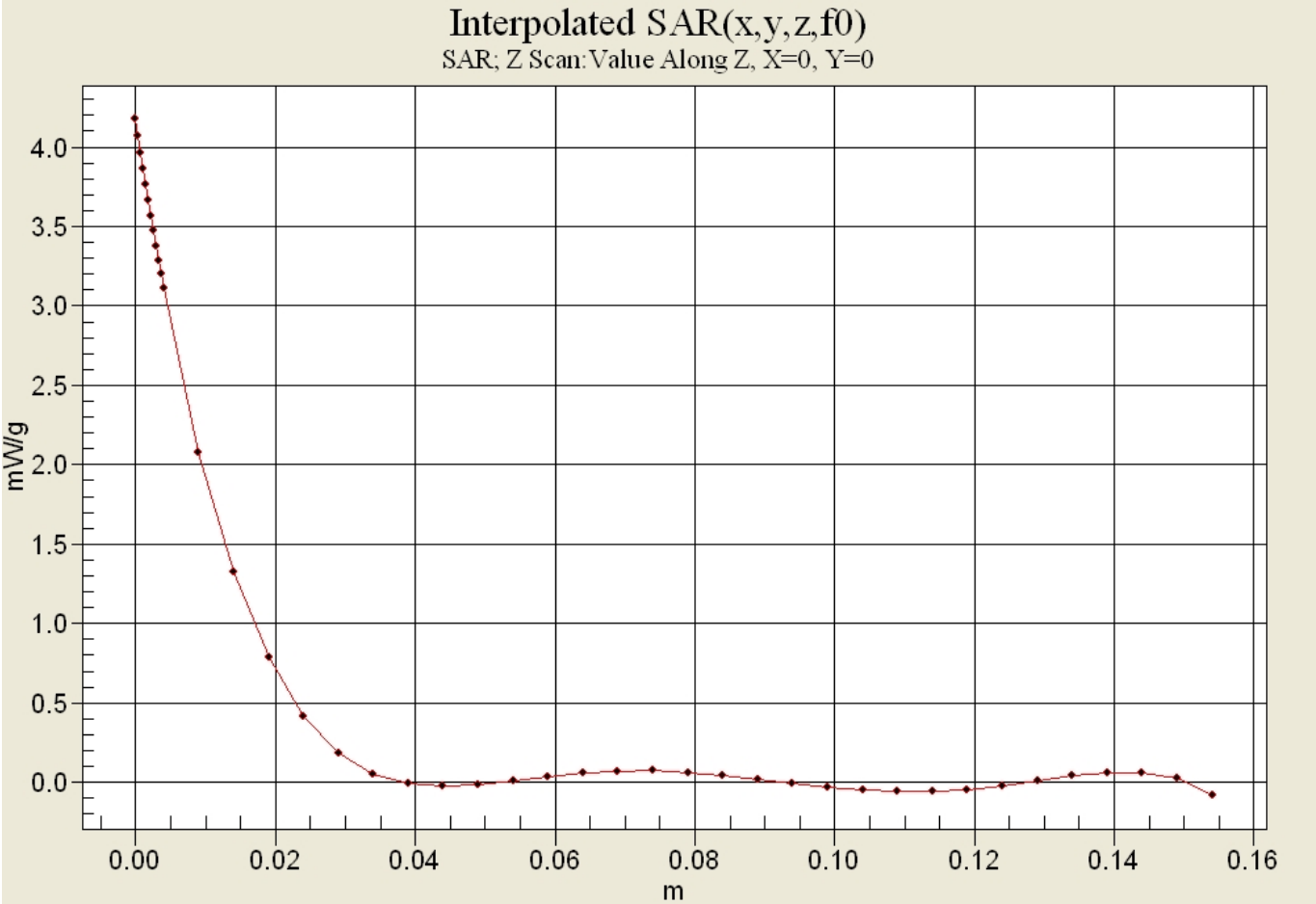
1800Mhz/Area Scan (41x71x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 4.74 mW/g

1800Mhz/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 57.2 V/m; Power Drift = -0.014 dB
Peak SAR (extrapolated) = 7.37 W/kg
SAR(1 g) = 3.9 mW/g; SAR(10 g) = 2 mW/g
Maximum value of SAR (measured) = 4.38 mW/g



0 dB = 4.38mW/g

1800 MHz Z-Scan

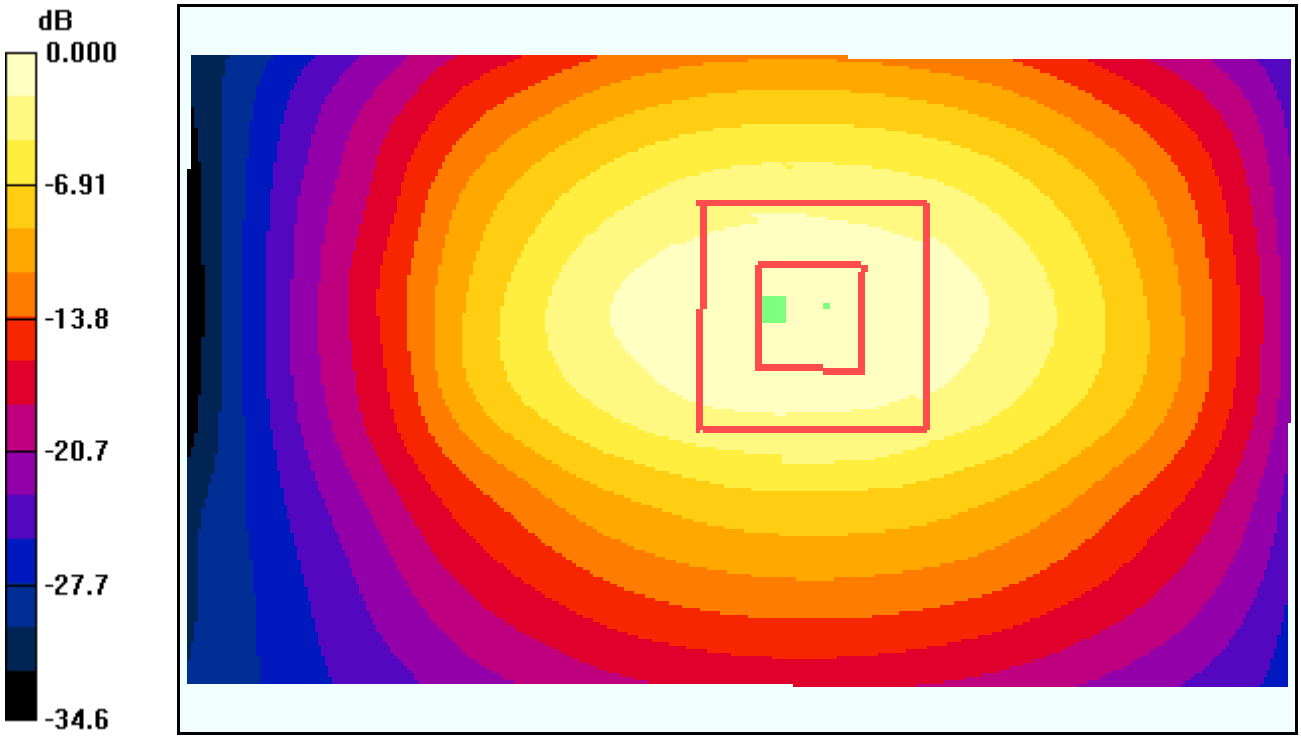


Test Laboratory: Comptest/Kyocera Date: 01/17/2011

1800MHz Validation, Probe #3078, DAE #602, Dipole #220
Communication System: CW 1800Mhz, Frequency: 1800 MHz, Duty Cycle: 1:1
Medium: H1800,Medium parameters used: f = 1800 MHz; σ = 1.44 mho/m; ε_r = 38.8; ρ = 1000 kg/m^3
Phantom: SAM 12,Phantom section: Flat Section
DASY4 Configuration:
Probe: ES3DV3 - SN3078, ConvF(4.97, 4.97, 4.97), 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

1800Mhz/Area Scan (41x71x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 4.66 mW/g

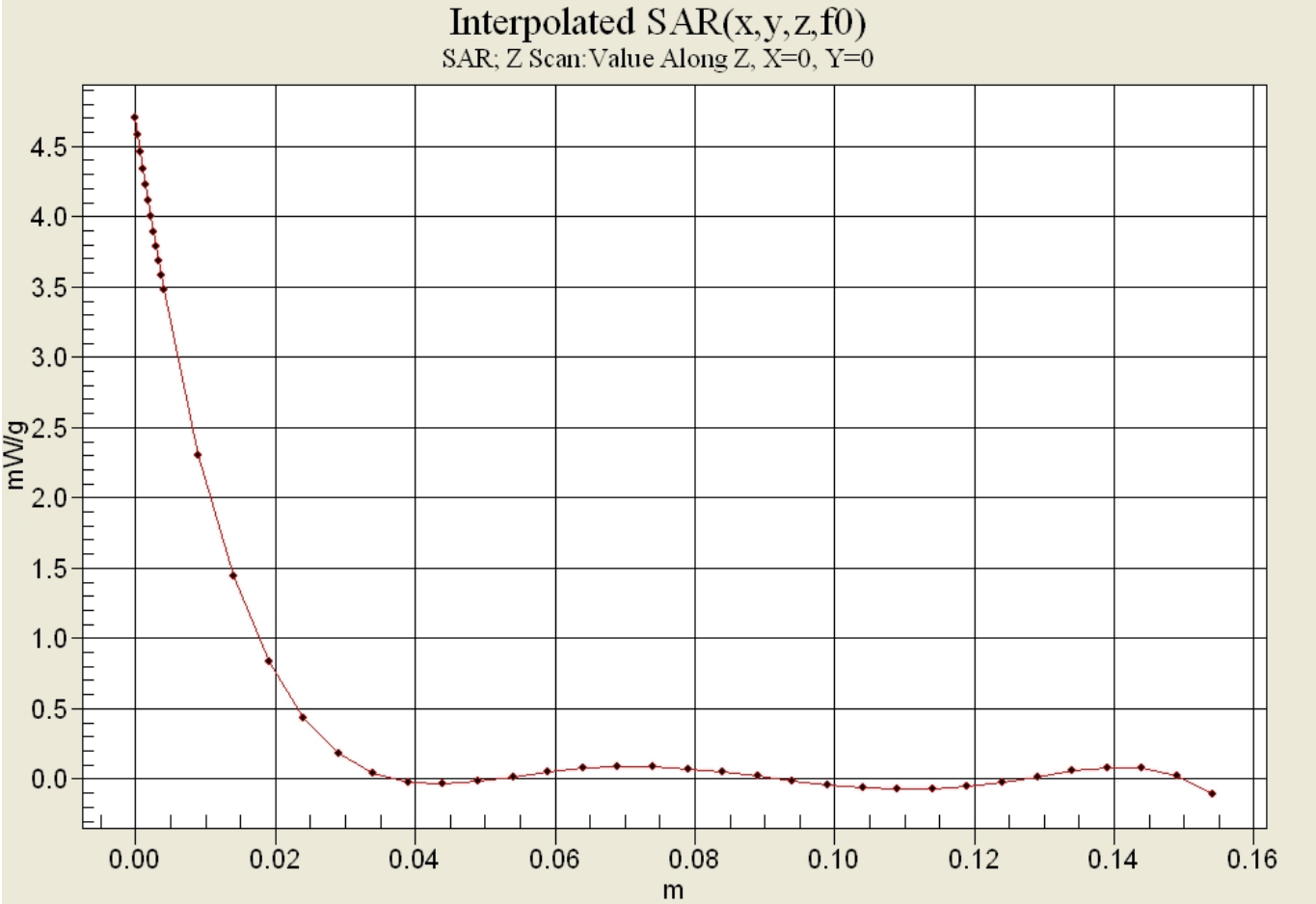
1800Mhz/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 56.3 V/m; Power Drift = -0.126 dB
Peak SAR (extrapolated) = 7.40 W/kg
SAR(1 g) = 3.94 mW/g; SAR(10 g) = 2.03 mW/g
Maximum value of SAR (measured) = 4.44 mW/g



0 dB = 4.44mW/g

Test Laboratory: Comptest/Kyocera Date: 01/17/2011

1800 MHz Z-Scan



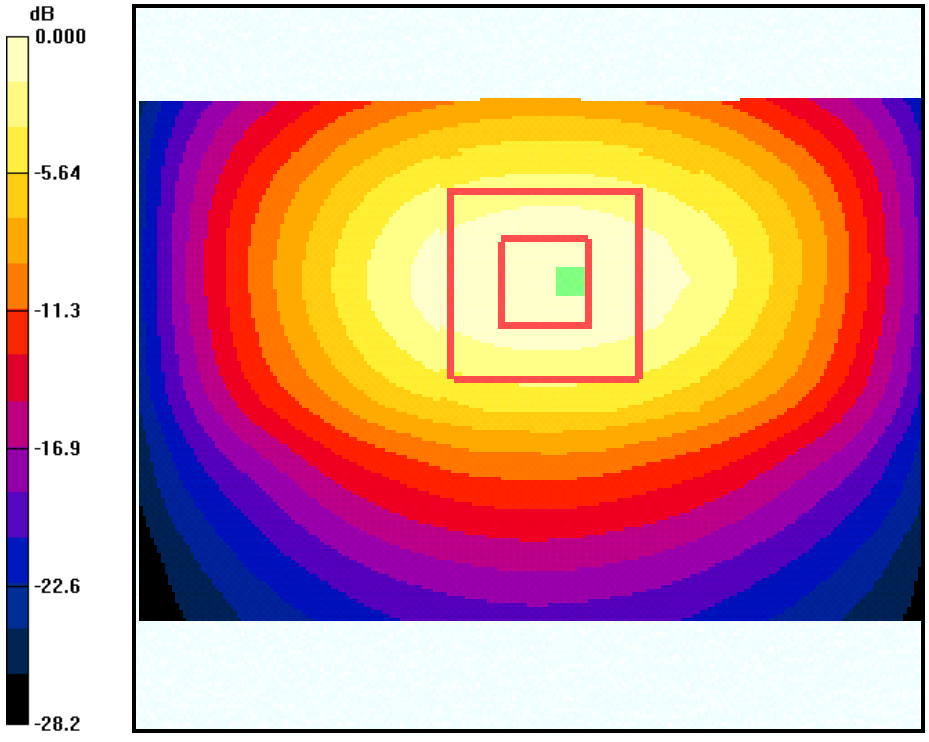
Test Laboratory: Comptest/Kyocera Date: 01/13/2011

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; σ = 1.45 mho/m; ε_r = 39.3; ρ = 1000 kg/m^3
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 Sn675,Calibrated: 4/21/2010
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

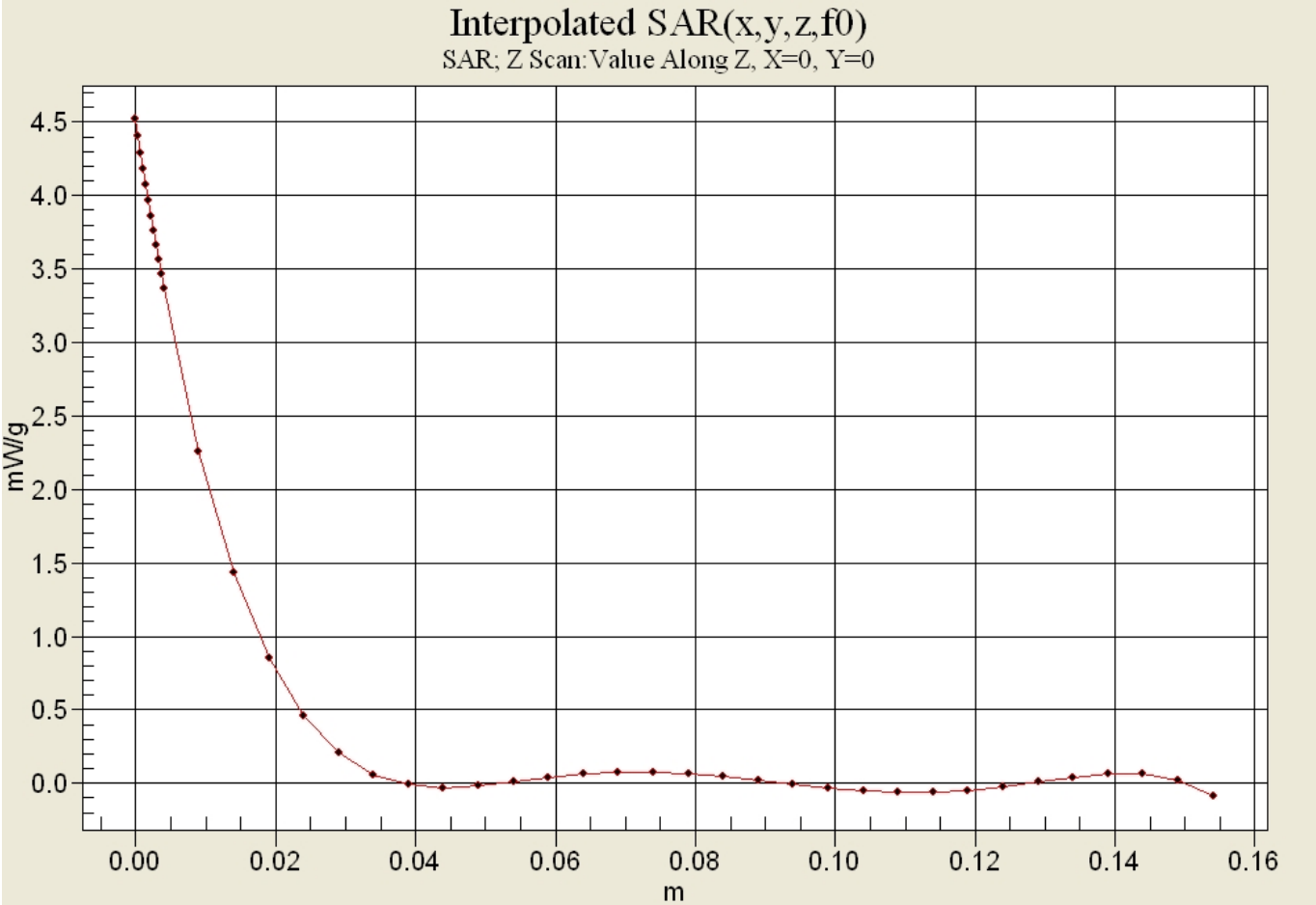
1900MHz Validation @20dBm/Area Scan (41x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 4.84 mW/g

1900MHz Validation @20dBm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 42.9 V/m; Power Drift = 0.013 dB
Peak SAR (extrapolated) = 7.17 W/kg
SAR(1 g) = 3.92 mW/g; SAR(10 g) = 2.03 mW/g
Maximum value of SAR (measured) = 4.37 mW/g



0 dB = 4.37mW/g

1900 MHz Z-Scan



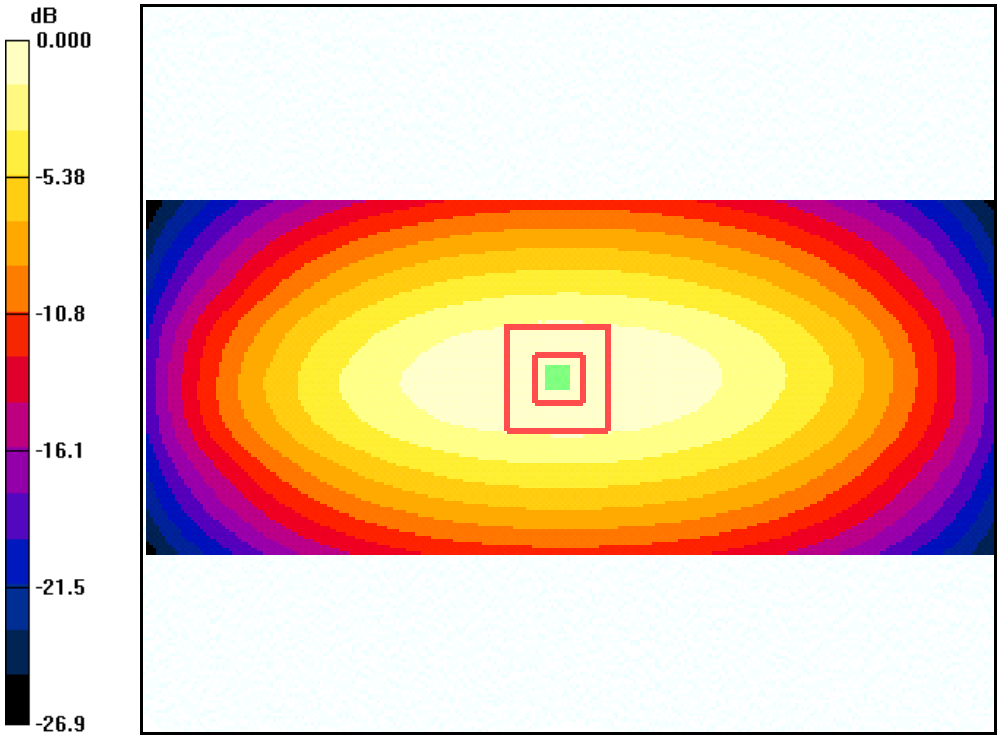
Validation for BODY

835MHz Validation (in Muscle), Probe #3078, DAE #602, Dipole #4d019
Communication System: CW, Frequency: 835 MHz, Duty Cycle: 1:1
Medium: M900,Medium parameters used: f = 835 MHz; σ = 0.94 mho/m; ε_r = 54.6; ρ = 1000 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 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

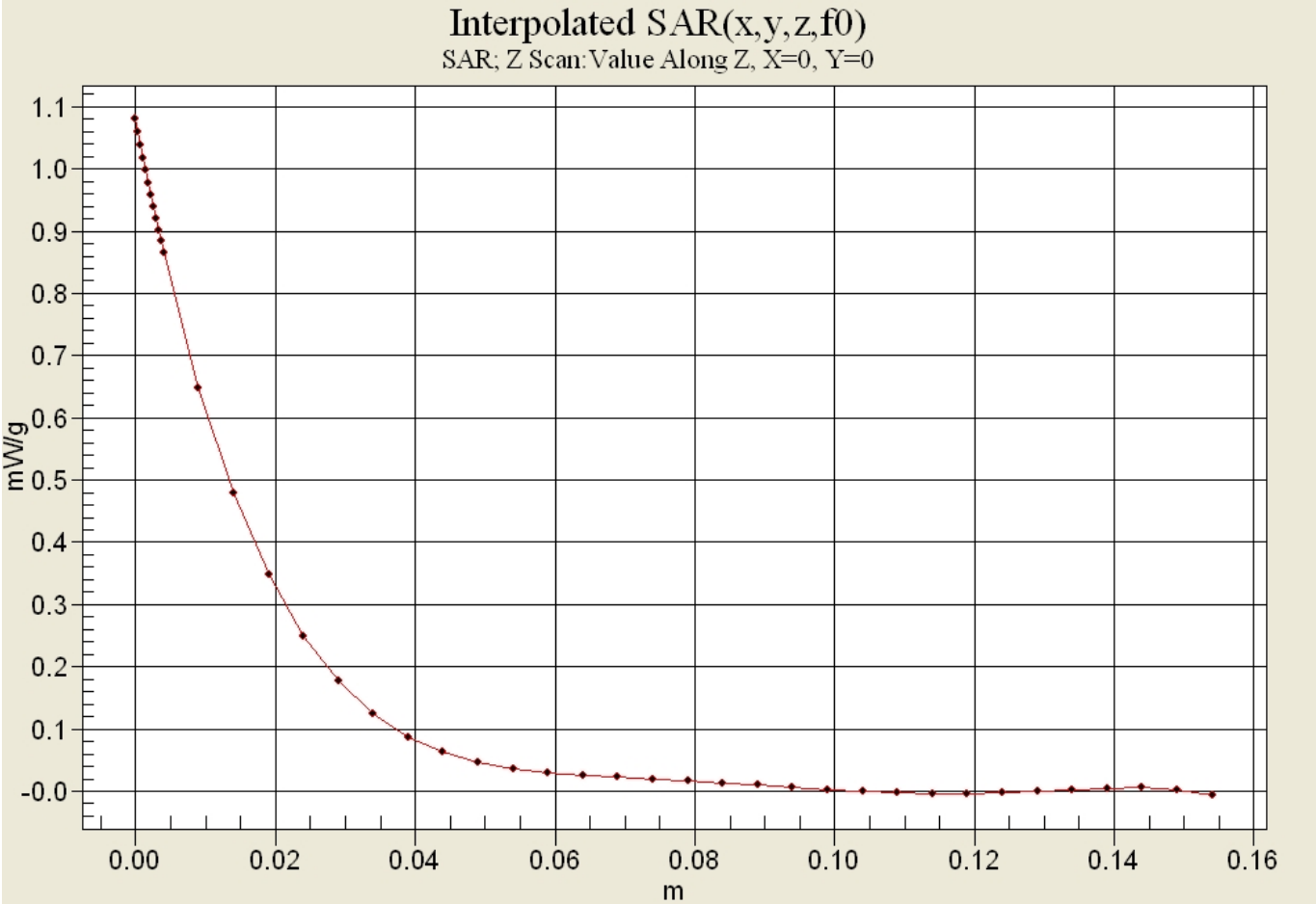
835MHz/Area Scan (51x121x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 1.03 mW/g

835MHz/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 33.3 V/m; Power Drift = 0.000 dB
Peak SAR (extrapolated) = 1.42 W/kg
SAR(1 g) = 0.966 mW/g; SAR(10 g) = 0.638 mW/g
Maximum value of SAR (measured) = 1.05 mW/g



0 dB = 1.05mW/g

835MHz Z-Scan

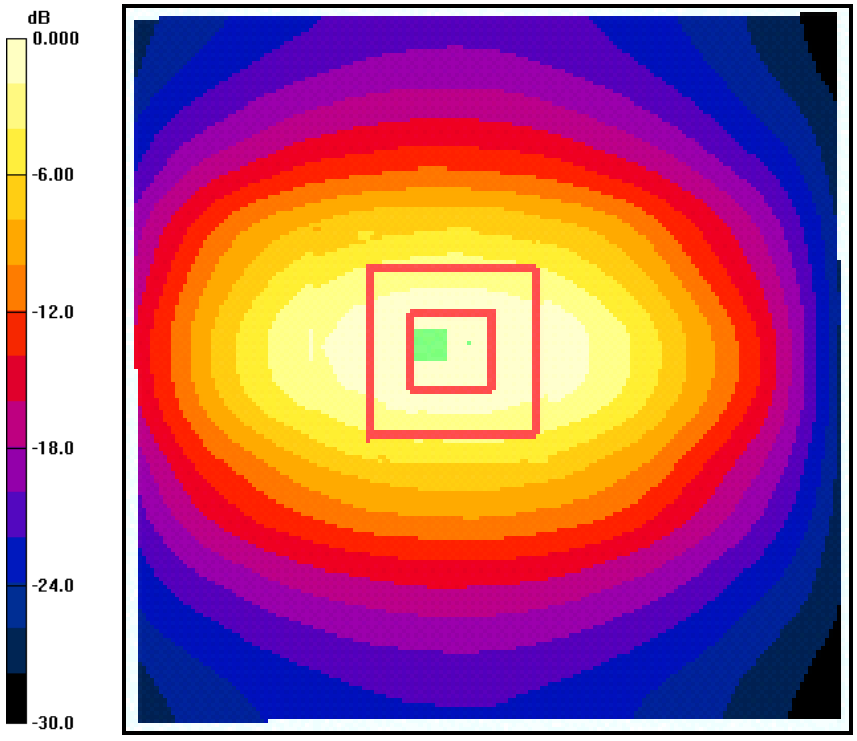


1800MHz Validation (in Muscle), Probe #3078, DAE #602, Dipole #220
Communication System: CW 1800Mhz, Frequency: 1800 MHz, Duty Cycle: 1:1
Medium: M1800,Medium parameters used: f = 1800 MHz; σ = 1.56 mho/m; ε_r = 51.4; ρ = 1000 kg/m^3
Phantom: SAM 12,Phantom section: Flat Section

DASY4 Configuration:
Probe: ES3DV3 - SN3078, ConvF(4.73, 4.73, 4.73), 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

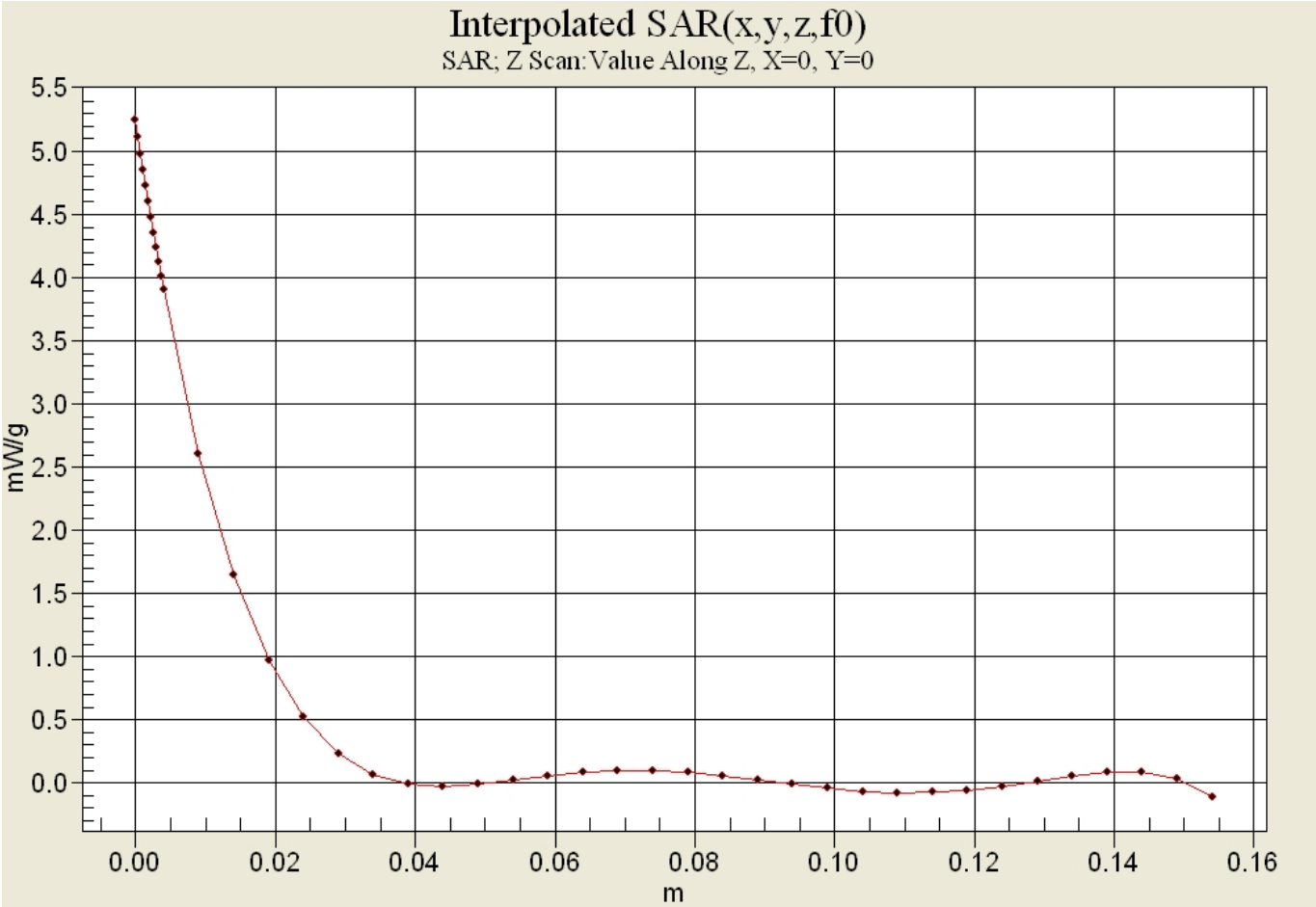
1800Mhz/Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 4.92 mW/g

1800Mhz/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 52.5 V/m; Power Drift = 0.099 dB
Peak SAR (extrapolated) = 6.96 W/kg
SAR(1 g) = 3.87 mW/g; SAR(10 g) = 2.02 mW/g
Maximum value of SAR (measured) = 4.34 mW/g



0 dB = 4.34mW/g

1800 MHz Z-Scan

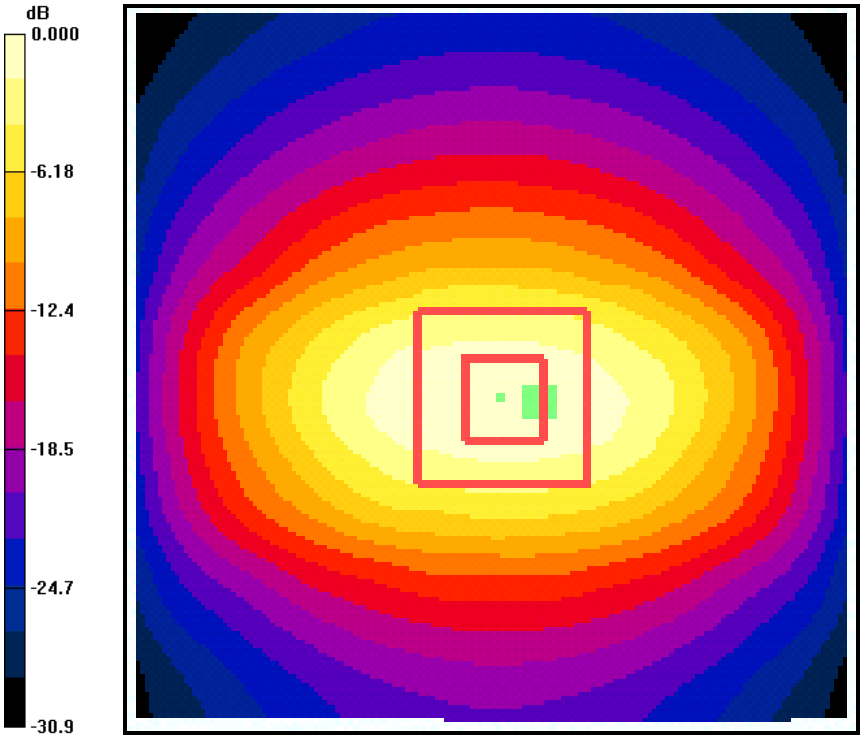


1900MHz Validation (in Muscle), Probe #3078, DAE #602, Dipole #5d016
Communication System: CW, Frequency: 1900 MHz, Duty Cycle: 1:1
Medium: M1900,Medium parameters used (interpolated): f = 1900 MHz; σ = 1.54 mho/m; ε_r = 52; ρ = 1000 kg/m^3
Phantom: SAM 12,Phantom section: Flat Section

DASY4 Configuration:
Probe: ES3DV3 - SN3078, ConvF(4.5, 4.5, 4.5), 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

1900MHz Validation @20dBm/Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 4.98 mW/g

1900MHz Validation @20dBm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 53.5 V/m; Power Drift = -0.157 dB
Peak SAR (extrapolated) = 7.05 W/kg
SAR(1 g) = 4.05 mW/g; SAR(10 g) = 2.12 mW/g
Maximum value of SAR (measured) = 4.67 mW/g



0 dB = 4.67mW/g

1900 MHz Z-Scan