

APPENDIX A: SAR TEST DATA

SAR Data Report 03031716

Start : 17-Mar-03 05:06:58 pm
End : 17-Mar-03 05:15:32 pm
Code Version : 4.08
Robot Version: 4.08

Product Data:

Type : ZEBRA
Model Number : CC16232-2
Frequency : 2437 MHz
Transmit Pwr : 0.097 W
Antenna Type : Dipole
Antenna Posn. : Fixed

Measurement Data:

Phantom Name : SAM FLAT
Phantom Type : Uniphantom
Tissue Type : Muscle
Tissue Dielectric : 51.000
Tissue Conductivity : 1.980
Tissue Density : 1.000
Robot Name : CRS

Probe Data:

Probe Name : PCT003
Probe Type : E Fld Triangle
Frequency : 2440 MHz
Tissue Type : Muscle
Calibrated Dielectric : 52.300
Calibrated Conductivity : 1.990
Calibrated Density : 1.000
Probe Offset : 2.400 mm
Conversion Factor : 9.900
Probe Sensitivity : 2.075 2.820 2.456 mV/(mW/cm²)
Amplifier Gains : 20.00 20.00 20.00

Sample:

Rate: 6000 Samples/Sec
Count: 1000 Samples
NIDAQ Gain: 5

Comments:

DSS Mode CH-6
BODY
CF=1; Amb. Temp= 22.3 'C; Liq. Temp=21.1 'C

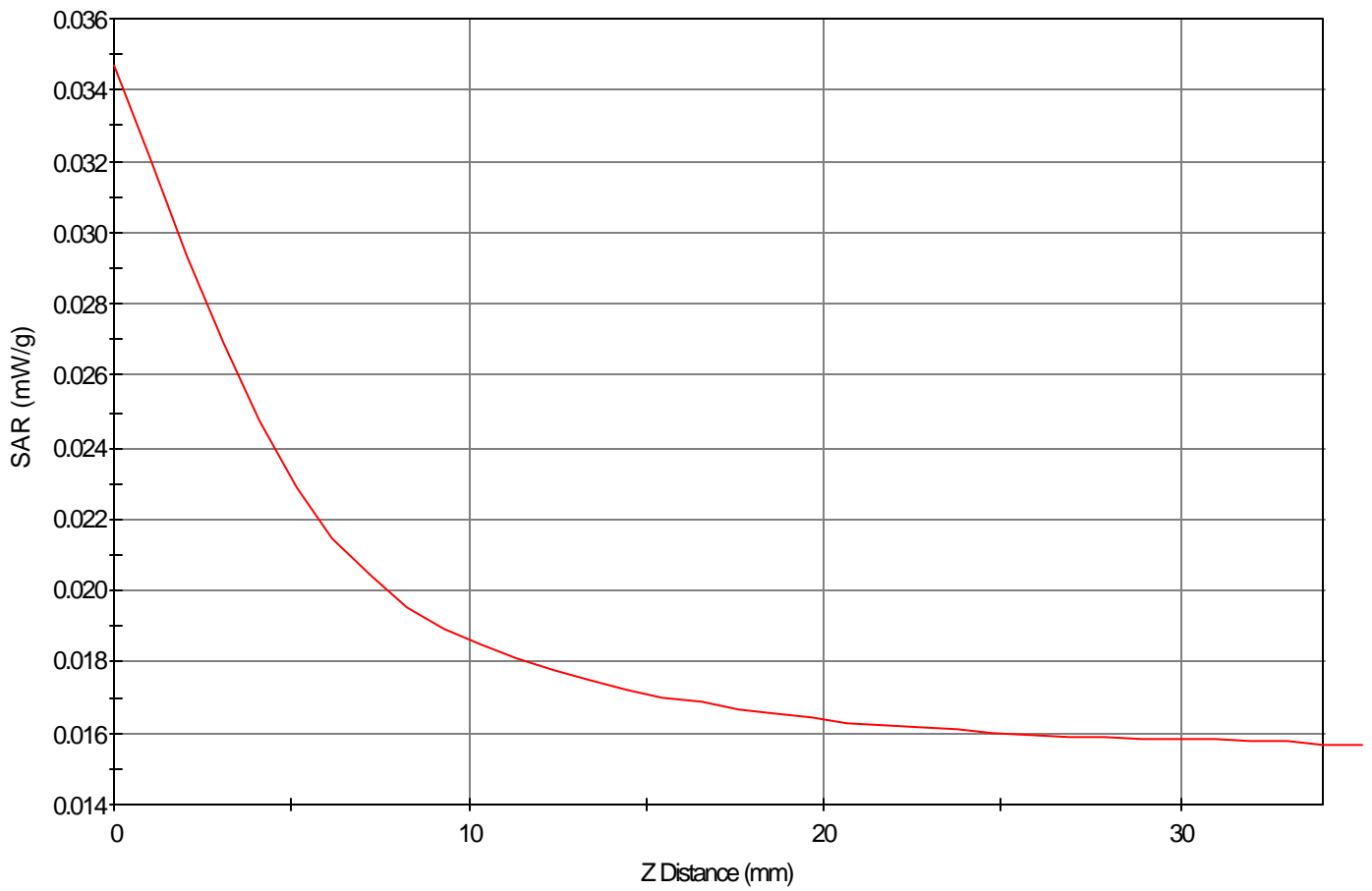
Area Scan - Max Peak SAR Value at x=-21.0 y=27.0 = 0.10 W/kg

Zoom Scan - Max Peak SAR Value at x=-37.0 y=25.0 z=0.0 = 0.03 W/kg

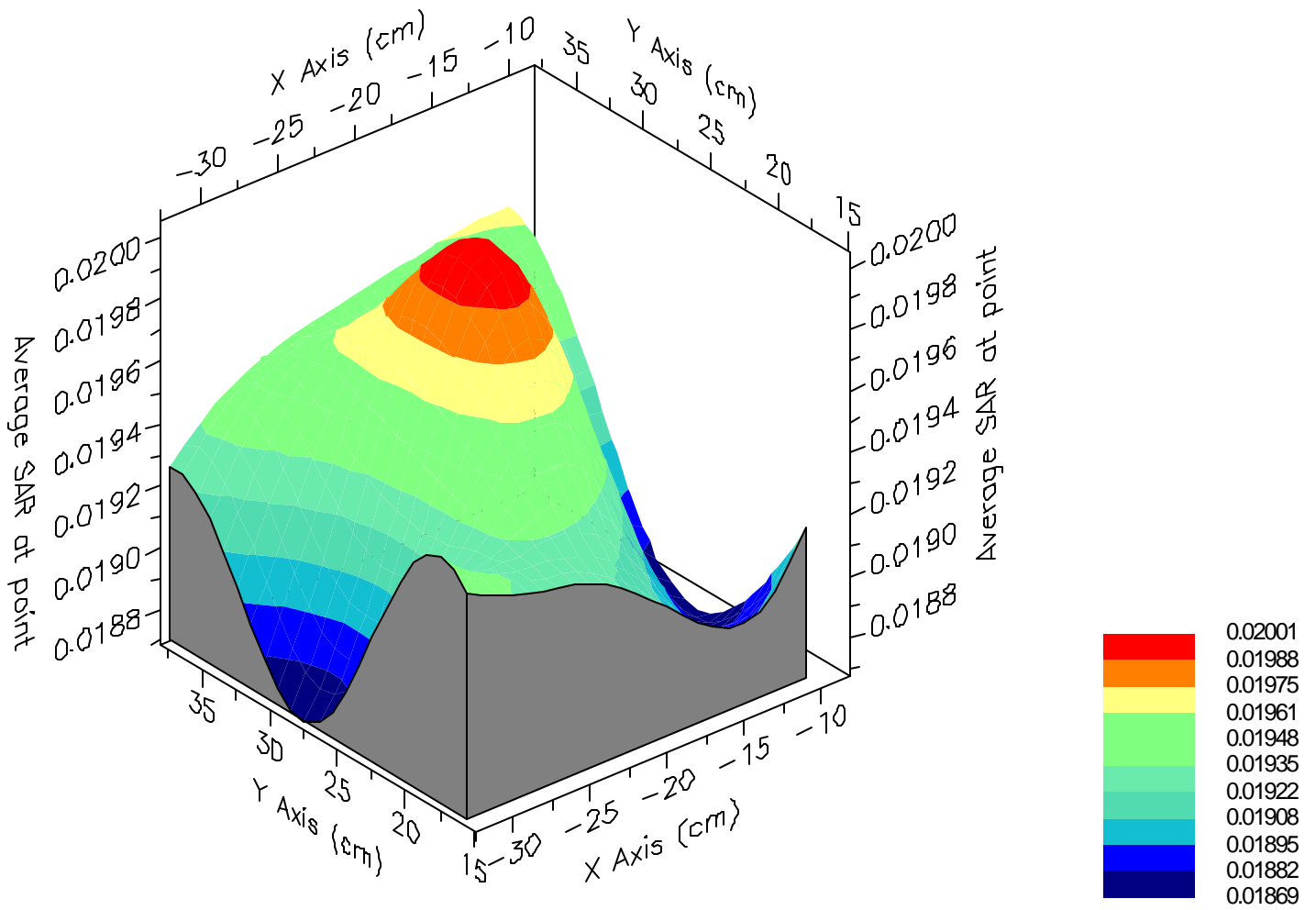
Max 1g SAR at x=-22.0 y=28.0 z=22.0 = 0.02 W/kg

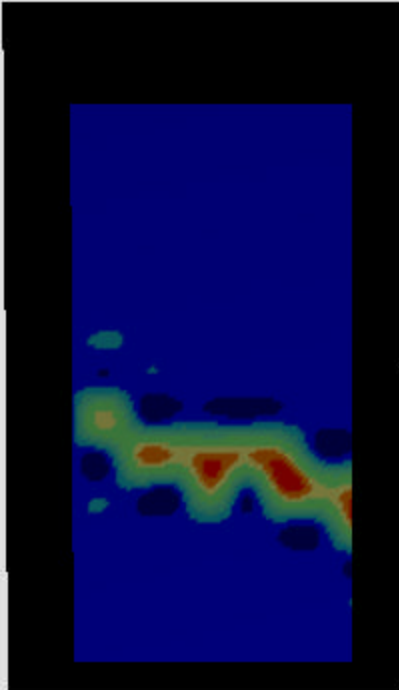
Max 10g SAR at x=-16.0 y=32.0 z=10.0 = 0.02 W/kg

SAR - Z Axis
at Hotspot x:-37.0 y:25.0



1g SAR Values





SAR Data Report 03031712

Start : 17-Mar-03 04:33:13 pm
End : 17-Mar-03 04:39:14 pm
Code Version : 4.08
Robot Version: 4.08

Product Data:

Type : ZEBRA
Model Number : CC16232-2
Frequency : 2462 MHz
Transmit Pwr : 0.093 W
Antenna Type : Dipole
Antenna Posn. : Fixed

Measurement Data:

Phantom Name : SAM FLAT
Phantom Type : Uniphantom
Tissue Type : Muscle
Tissue Dielectric : 51.000
Tissue Conductivity : 1.980
Tissue Density : 1.000
Robot Name : CRS

Probe Data:

Probe Name : PCT003
Probe Type : E Fld Triangle
Frequency : 2440 MHz
Tissue Type : Muscle
Calibrated Dielectric : 52.300
Calibrated Conductivity : 1.990
Calibrated Density : 1.000
Probe Offset : 2.400 mm
Conversion Factor : 9.900
Probe Sensitivity : 2.075 2.820 2.456 mV/(mW/cm²)
Amplifier Gains : 20.00 20.00 20.00

Sample:

Rate: 6000 Samples/Sec
Count: 1000 Samples
NIDAQ Gain: 5

Comments:

DSS Mode CH-11
BODY
CF=1; Amb. Temp= 22.3 'C; Liq. Temp=21.1 'C

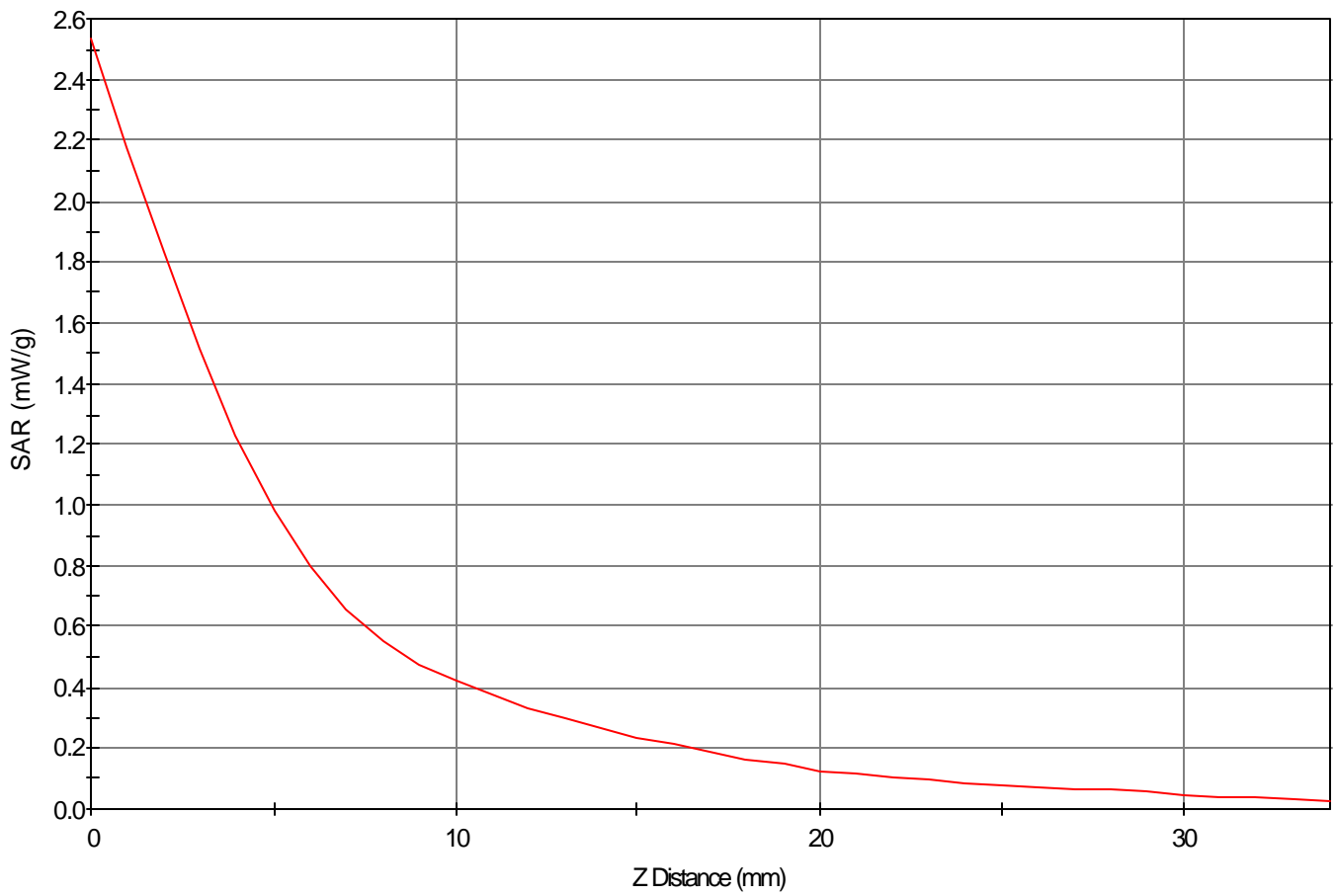
Area Scan - Max Peak SAR Value at x=0.0 y=0.0 = 1.01 W/kg

Zoom Scan - Max Peak SAR Value at x=0.0 y=-1.0 z=0.0 = 2.54 W/kg

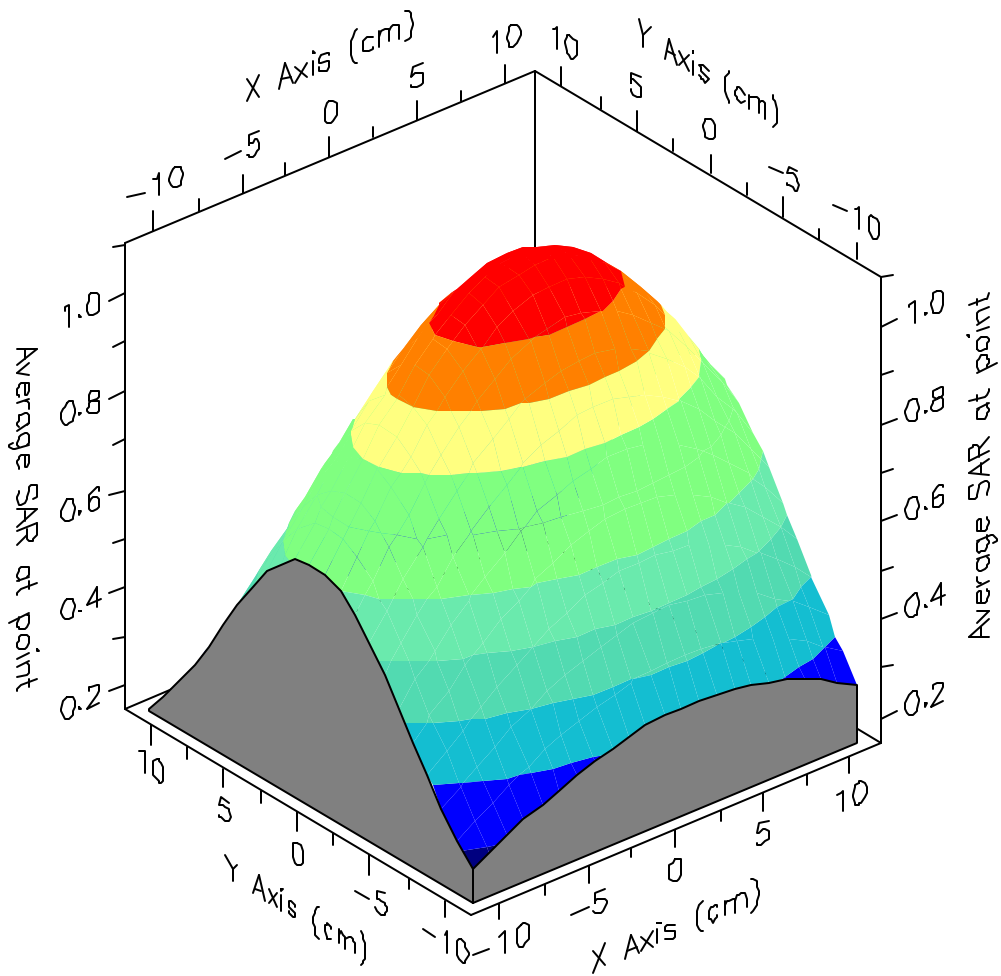
Max 1g SAR at x=1.0 y=0.0 z=0.0 = 1.10 W/kg

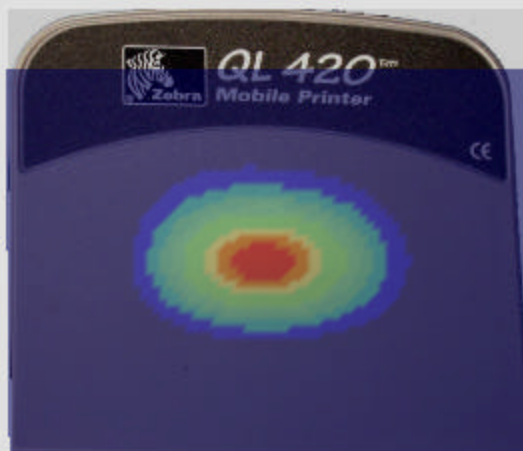
Max 10g SAR at x=1.0 y=-1.0 z=0.0 = 0.41 W/kg

SAR - Z Axis
at Hotspot x:0.0 y:-1.0



1g SAR Values





APPENDIX B: DIPOLE VALIDATION

SAR Data Report 03031702

Start : 17-Mar-03 10:32:25 am
End : 17-Mar-03 10:36:44 am
Code Version : 4.08
Robot Version: 4.08

Product Data:

Type : Verification
Model Number : E-010
Serial Number : PCT003
Frequency : 2440 MHz
Transmit Pwr : 0.100 W
Antenna Type : Dipole
Antenna Posn. : Validation

Measurement Data:

Phantom Name : SAM-FLAT-B
Phantom Type : Uniphantom
Tissue Type : Brain
Tissue Dielectric : 40.030
Tissue Conductivity : 1.880
Tissue Density : 1.000
Robot Name : CRS

Probe Data:

Probe Name : PCT003
Probe Type : E Fld Triangle
Frequency : 2440 MHz
Tissue Type : Brain
Calibrated Dielectric : 39.340
Calibrated Conductivity : 1.770
Calibrated Density : 1.300
Probe Offset : 2.400 mm
Conversion Factor : 8.800
Probe Sensitivity : 2.075 2.820 2.456 mV/(mW/cm^2)
Amplifier Gains : 20.00 20.00 20.00

Sample:

Rate: 6000 Samples/Sec
Count: 1000 Samples
NIDAQ Gain: 5

Comments:

Verification

CF=1; Amb. Temp= 22.3 'C; Liq. Temp=21.1 'C

Area Scan - Max Peak SAR Value at x=-4.0 y=-1.0 = 4.71 W/kg

Zoom Scan - Max Peak SAR Value at x=-4.0 y=-2.0 z=0.0 = 10.76 W/kg

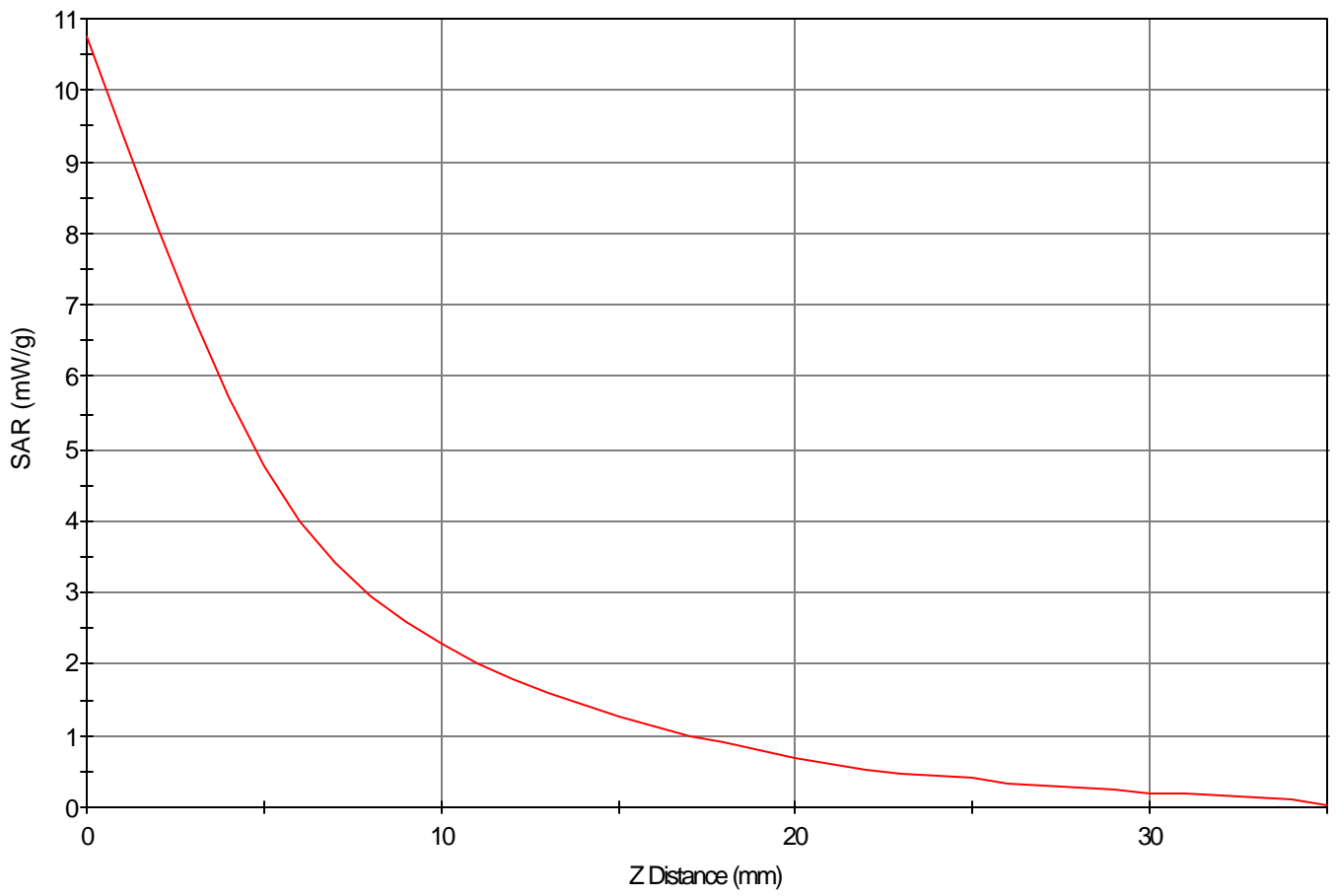
Max 1g SAR at x=-4.0 y=-2.0 z=0.0 = 5.34 W/kg

Max 10g SAR at x=-4.0 y=-2.0 z=0.0 = 2.36 W/kg

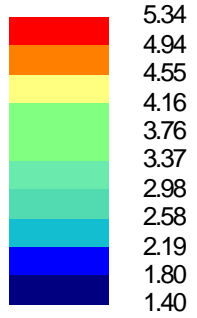
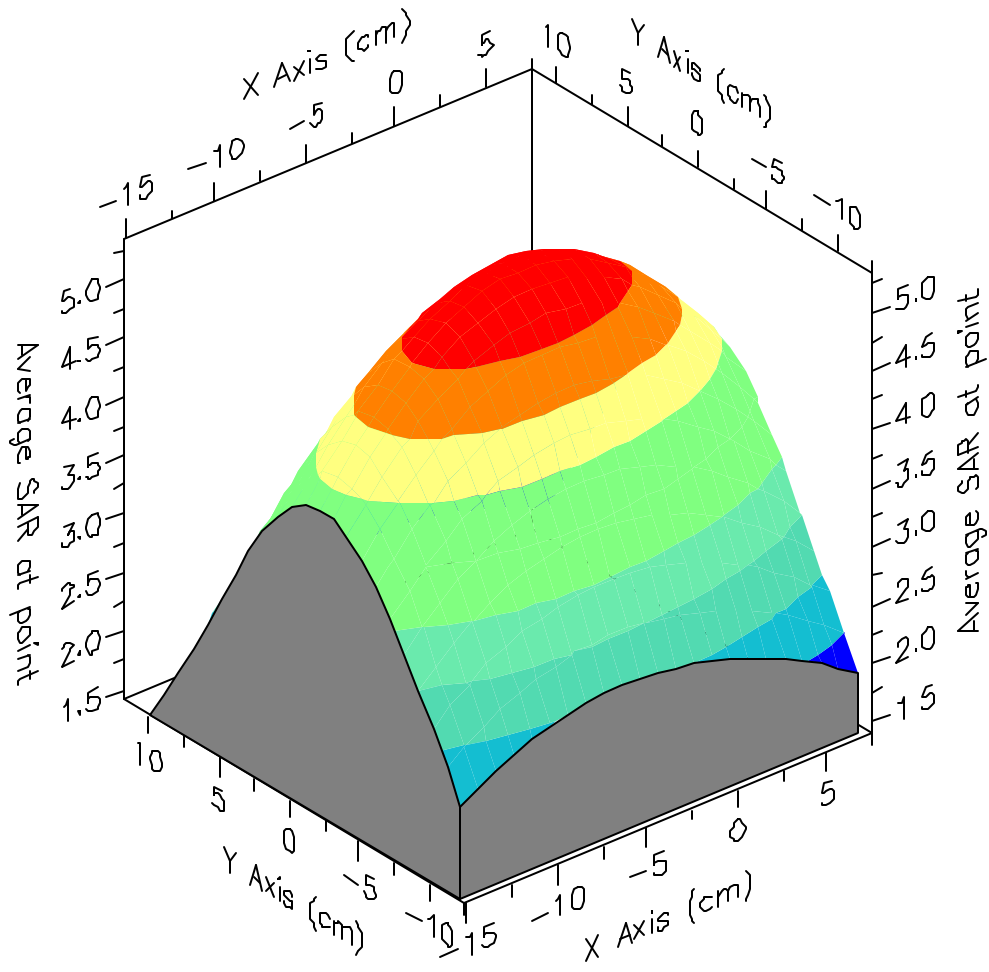
Validation Results at 0.10 W:

Peak Nominal = 10.4, Error: 3.25 %
1g Nominal = 5.2, Error: 1.87 %
10g Nominal = 2.4, Error: -1.61 %

SAR - Z Axis
at Hotspot x:-4.0 y:-2.0



1g SAR Values





APPENDIX C: PROBE CALIBRATION

Probe E-010

SN: PCT003

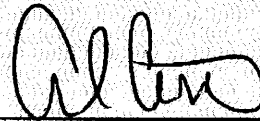
Manufactured:
Calibrated:

November 4, 2002
January 3, 2003

Calibrated for the IDX System

PCTEST Calibration Laboratory

Approved By:



Alfred Cirwithian
Vice President Engineering

Calibration is performed according to IEEE Std. P1528-200X, Sec. 7 Draft 6.5 (2001)
and all test equipment used are traceable to U.S. NIST.

