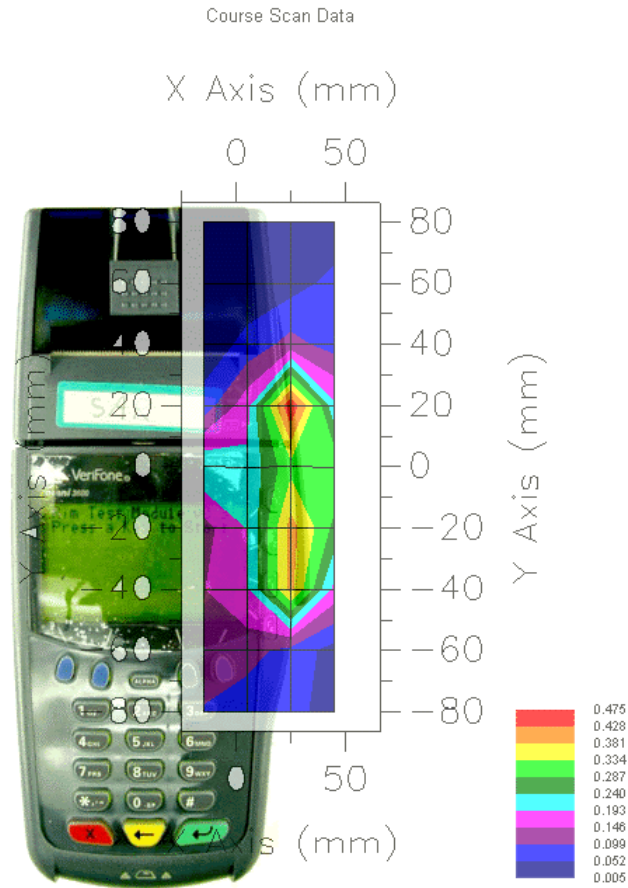


Appendix A: GRAPHIC PLOTS AND SAR DATA SHEETS

GRAPH 1

Course Scan Only
 Keyboard Up, Folded Antenna, Distance 0 mm
 Channel 720 - medium, Frequency: 899 MHz



AUTOMATED SAR DATA REPORT (GRPAH 1)

SAR Data Report Veri scan 1

Start : 13-May-02 03:11:25 pm
End : 13-May-02 03:12:53 pm
Code Version : 4.12
Robot Version: 4.08

Product Data:

Type : Veriphone
Model Number : OMNI 3600
Serial Number : P096-100-02
Frequency : 899 MHz
Transmit Pwr : 1.905 W
Antenna Type : 1/4 Wave
Antenna Posn. : Out

Measurement Data:

Phantom Name : APREL-Uni
Phantom Type : Uniphantom
Tissue Type : Muscle
Tissue Dielectric : 52.400
Tissue Conductivity : 1.090
Tissue Density : 1.000
Crest Factor : 10.000
Robot Name : CRS

Probe Data:

Probe Name : 163
Probe Type : E Fld Triangle
Frequency : 900 MHz
Tissue Type : Muscle
Calibrated Dielectric : 52.400
Calibrated Conductivity : 1.090
Probe Offset : 2.500 mm
Conversion Factor : 7.200
Diode Compression Pt : 76.0 mV
Probe Sensitivity : 0.580 0.580 0.580 mV/(mW/cm²)
Amplifier Gains : 20.00 20.00 20.00
Chan. Offset (mV) : 1.21 1.38 1.12

Sample:

Rate: 6000 Samples/Sec
Count: 2000 Samples
NIDAQ Gain: 5
Scan Time: 333.3 msec

Comments:

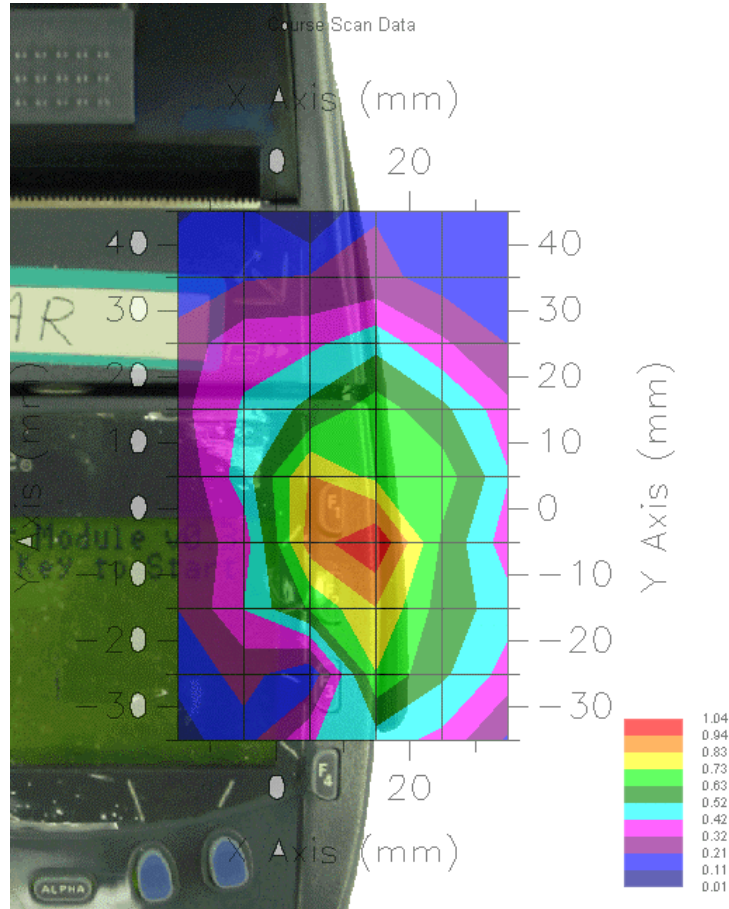
Keyboard Up
Course Scan

Area Scan - Max Local SAR Value at x=26.0 y=18.0 = 0.48 W/kg



GRAPH 2

Keyboard Up, Folded Antenna, Distance 0 mm
Channel 720 - medium, Frequency: 899 MHz



AUTOMATED SAR DATA REPORT (GRPAH 2)

SAR Data Report Veri scan11

Start : 14-May-02 10:21:48 am
End : 14-May-02 10:27:58 am
Code Version : 4.12
Robot Version: 4.08

Product Data:

Type : Veriphone
Model Number : OMNI 3600
Serial Number : P096-100-02
Frequency : 899 MHz
Transmit Pwr : 1.905 W
Antenna Type : 1/4 Wave
Antenna Posn. : Out

Measurement Data:

Phantom Name : APREL-Uni
Phantom Type : Uniphantom
Tissue Type : Muscle
Tissue Dielectric : 52.400
Tissue Conductivity : 1.090
Tissue Density : 1.000
Crest Factor : 10.000
Robot Name : CRS

Probe Data:

Probe Name : 163
Probe Type : E Fld Triangle
Frequency : 900 MHz
Tissue Type : Muscle
Calibrated Dielectric : 52.400
Calibrated Conductivity : 1.090
Probe Offset : 2.500 mm
Conversion Factor : 7.200
Diode Compression Pt : 76.0 mV
Probe Sensitivity : 0.580 0.580 0.580 mV/(mW/cm²)
Amplifier Gains : 20.00 20.00 20.00
Chan. Offset (mV) : 1.17 1.24 1.06

Sample:

Rate: 4000 Samples/Sec
Count: 1000 Samples
NIDAQ Gain: 5
Scan Time: 250.0 msec

Comments:

Keyboard Up

Area Scan - Max Local SAR Value at x=12.0 y=-6.0 = 1.07 W/kg

Zoom Scan - Max Local SAR Value at x=28.0 y=3.0 z=0.0 = 4.07 W/kg

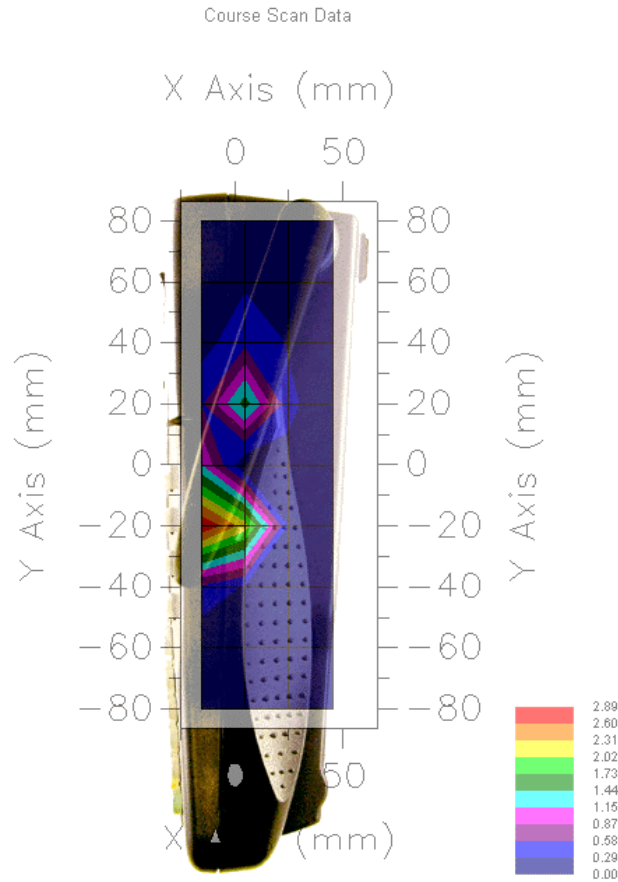
Max 1g SAR at x=23.0 y=-17.0 z=0.0 = 1.10 W/kg

Max 10g SAR at x=17.0 y=-3.0 z=0.0 = 0.51 W/kg



GRAPH 3

Course Scan Only
Right Side Up, Folded Antenna, Distance 0 mm
Channel 720 - medium, Frequency: 899 MHz



AUTOMATED SAR DATA REPORT (GRPAH 3)

SAR Data Report Veri scan2

Start : 13-May-02 04:04:56 pm
End : 13-May-02 04:06:24 pm
Code Version : 4.12
Robot Version: 4.08

Product Data:

Type : Veriphone
Model Number : OMNI 3600
Serial Number : P096-100-02
Frequency : 899 MHz
Transmit Pwr : 1.905 W
Antenna Type : 1/4 Wave
Antenna Posn. : Out

Measurement Data:

Phantom Name : APREL-Uni
Phantom Type : Uniphantom
Tissue Type : Muscle
Tissue Dielectric : 52.400
Tissue Conductivity : 1.090
Tissue Density : 1.000
Crest Factor : 10.000
Robot Name : CRS

Probe Data:

Probe Name : 163
Probe Type : E Fld Triangle
Frequency : 900 MHz
Tissue Type : Muscle
Calibrated Dielectric : 52.400
Calibrated Conductivity : 1.090
Probe Offset : 2.500 mm
Conversion Factor : 7.200
Diode Compression Pt : 76.0 mV
Probe Sensitivity : 0.580 0.580 0.580 mV/(mW/cm^2)
Amplifier Gains : 20.00 20.00 20.00
Chan. Offset (mV) : 1.21 1.38 1.12

Sample:

Rate: 6000 Samples/Sec
Count: 2000 Samples
NIDAQ Gain: 5
Scan Time: 333.3 msec

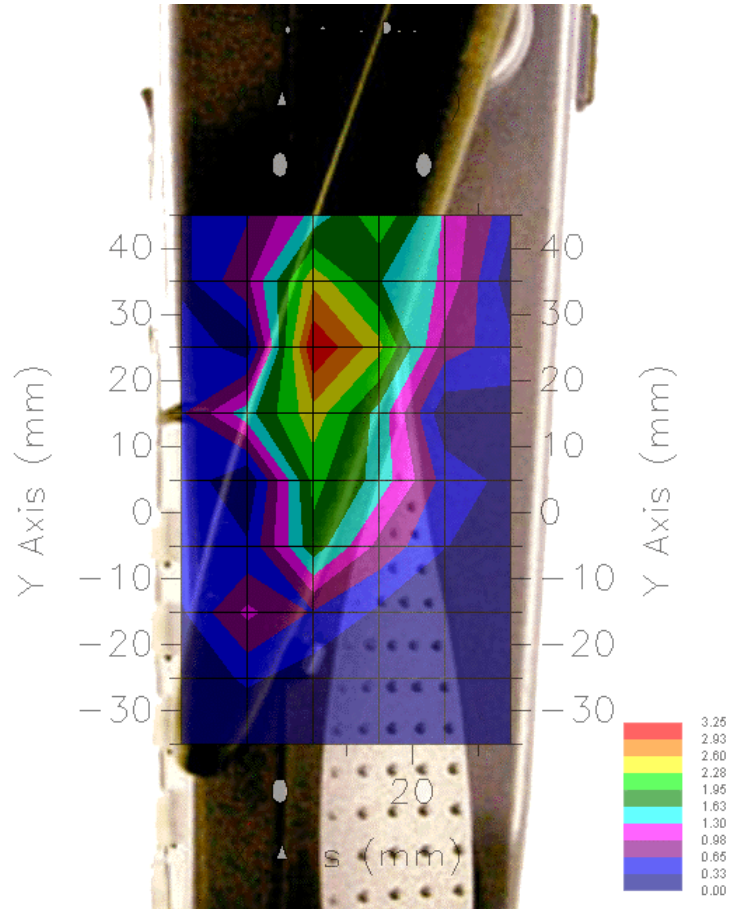
Comments:

Right Side Up
Course Scan

Area Scan - Max Local SAR Value at x=-15.0 y=-19.0 = 2.90 W/kg



GRAPH 4
Right Side Up, Folded Antenna, Distance 0 mm
Channel 480 - low, Frequency: 896 MHz



AUTOMATED SAR DATA REPORT (GRPAH 4)

SAR Data Report Veri scan9

Start : 13-May-02 05:37:59 pm
End : 13-May-02 05:44:11 pm
Code Version : 4.12
Robot Version: 4.08

Product Data:

Type : Veriphone
Model Number : OMNI 3600
Serial Number : P096-100-02
Frequency : 896 MHz
Transmit Pwr : 1.905 W
Antenna Type : 1/4 Wave
Antenna Posn. : Out

Measurement Data:

Phantom Name : APREL-Uni
Phantom Type : Uniphantom
Tissue Type : Muscle
Tissue Dielectric : 52.400
Tissue Conductivity : 1.090
Tissue Density : 1.000
Crest Factor : 10.000
Robot Name : CRS

Probe Data:

Probe Name : 163
Probe Type : E Fld Triangle
Frequency : 900 MHz
Tissue Type : Muscle
Calibrated Dielectric : 52.400
Calibrated Conductivity : 1.090
Probe Offset : 2.500 mm
Conversion Factor : 7.200
Diode Compression Pt : 76.0 mV
Probe Sensitivity : 0.580 0.580 0.580 mV/(mW/cm²)
Amplifier Gains : 20.00 20.00 20.00
Chan. Offset (mV) : 1.39 1.51 1.27

Sample:

Rate: 4000 Samples/Sec
Count: 1000 Samples
NIDAQ Gain: 5
Scan Time: 250.0 msec

Comments:

Right Side Up

Area Scan - Max Local SAR Value at x=7.0 y=25.0 = 3.45 W/kg

Zoom Scan - Max Local SAR Value at x=-3.0 y=17.0 z=0.0 = 21.81 W/kg

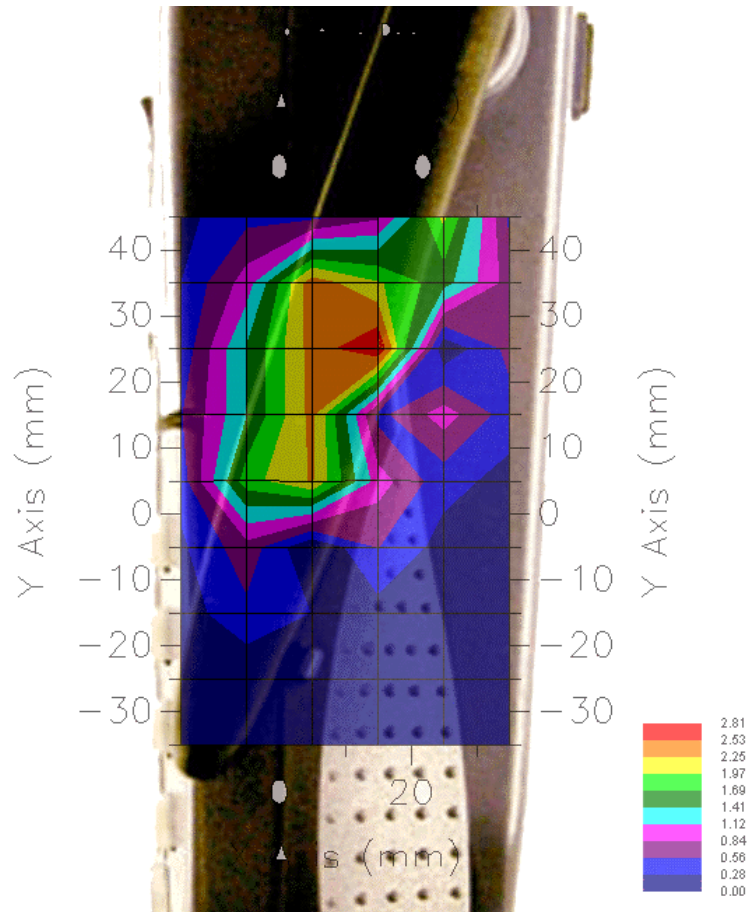
Max 1g SAR at x=-2.0 y=17.0 z=0.0 = 5.02 W/kg

Max 10g SAR at x=6.0 y=21.0 z=0.0 = 1.69 W/kg



GRAPH 5

Right Side Up, Folded Antenna, Distance 0 mm
Channel 720 - medium, Frequency: 899 MHz



AUTOMATED SAR DATA REPORT (GRPAH 5)

SAR Data Report Veri Scan5

Start : 13-May-02 04:54:16 pm
End : 13-May-02 05:00:26 pm
Code Version : 4.12
Robot Version: 4.08

Product Data:

Type : Veriphone
Model Number : OMNI 3600
Serial Number : P096-100-02
Frequency : 899 MHz
Transmit Pwr : 1.905 W
Antenna Type : 1/4 Wave
Antenna Posn. : Out

Measurement Data:

Phantom Name : APREL-Uni
Phantom Type : Uniphantom
Tissue Type : Muscle
Tissue Dielectric : 52.400
Tissue Conductivity : 1.090
Tissue Density : 1.000
Crest Factor : 10.000
Robot Name : CRS

Probe Data:

Probe Name : 163
Probe Type : E Fld Triangle
Frequency : 900 MHz
Tissue Type : Muscle
Calibrated Dielectric : 52.400
Calibrated Conductivity : 1.090
Probe Offset : 2.500 mm
Conversion Factor : 7.200
Diode Compression Pt : 76.0 mV
Probe Sensitivity : 0.580 0.580 0.580 mV/(mW/cm²)
Amplifier Gains : 20.00 20.00 20.00
Chan. Offset (mV) : 1.32 1.43 1.24

Sample:

Rate: 4000 Samples/Sec
Count: 1000 Samples
NIDAQ Gain: 5
Scan Time: 250.0 msec

Comments:

Right Side Up

Area Scan - Max Local SAR Value at x=12.0 y=27.0 = 3.15 W/kg

Zoom Scan - Max Local SAR Value at x=6.0 y=16.0 z=0.0 = 23.54 W/kg

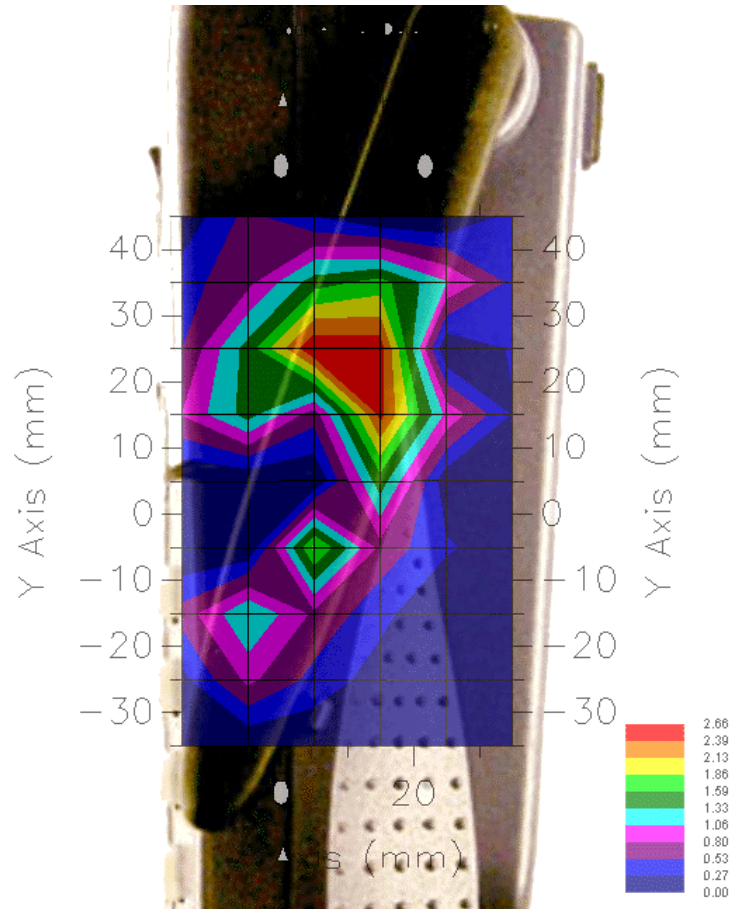
Max 1g SAR at x=6.0 y=16.0 z=0.0 = 6.49 W/kg

Max 10g SAR at x=7.0 y=22.0 z=0.0 = 1.75 W/kg



GRAPH 6

Right Side Up, Folded Antenna, Distance 0 mm
Channel 880 - high, Frequency: 901 MHz



AUTOMATED SAR DATA REPORT (GRPAH 6)

SAR Data Report Veri scan8

Start : 13-May-02 05:26:34 pm
End : 13-May-02 05:32:45 pm
Code Version : 4.12
Robot Version: 4.08

Product Data:

Type : Veriphone
Model Number : OMNI 3600
Serial Number : P096-100-02
Frequency : 901 MHz
Transmit Pwr : 1.905 W
Antenna Type : 1/4 Wave
Antenna Posn. : Out

Measurement Data:

Phantom Name : APREL-Uni
Phantom Type : Uniphantom
Tissue Type : Muscle
Tissue Dielectric : 52.400
Tissue Conductivity : 1.090
Tissue Density : 1.000
Crest Factor : 10.000
Robot Name : CRS

Probe Data:

Probe Name : 163
Probe Type : E Fld Triangle
Frequency : 900 MHz
Tissue Type : Muscle
Calibrated Dielectric : 52.400
Calibrated Conductivity : 1.090
Probe Offset : 2.500 mm
Conversion Factor : 7.200
Diode Compression Pt : 76.0 mV
Probe Sensitivity : 0.580 0.580 0.580 mV/(mW/cm²)
Amplifier Gains : 20.00 20.00 20.00
Chan. Offset (mV) : 1.35 1.46 1.29

Sample:

Rate: 4000 Samples/Sec
Count: 1000 Samples
NIDAQ Gain: 5
Scan Time: 250.0 msec

Comments:

Right Side Up

Area Scan - Max Local SAR Value at x=10.0 y=25.0 = 2.97 W/kg

Zoom Scan - Max Local SAR Value at x=1.0 y=17.0 z=0.0 = 21.88 W/kg

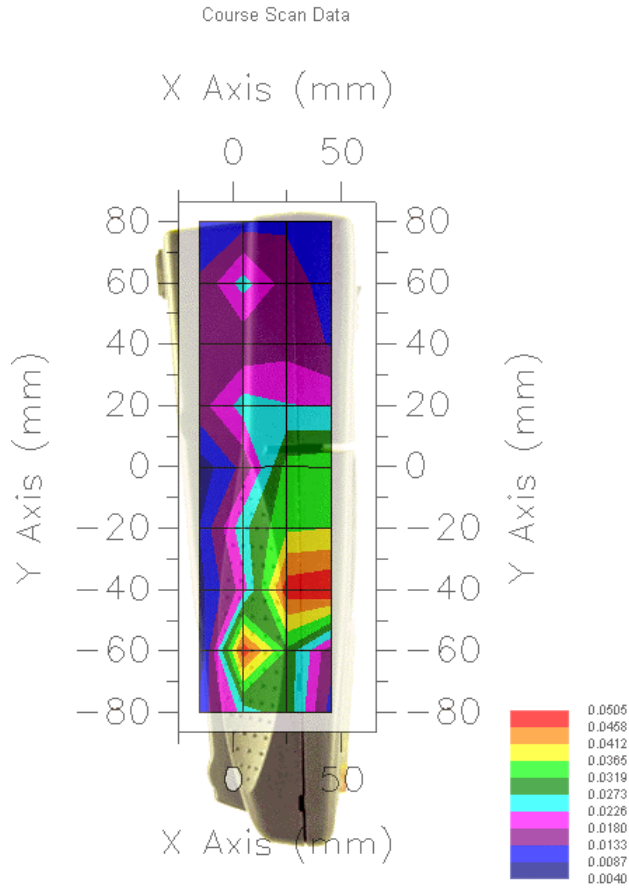
Max 1g SAR at x=2.0 y=18.0 z=0.0 = 4.91 W/kg

Max 10g SAR at x=7.0 y=24.0 z=0.0 = 1.42 W/kg



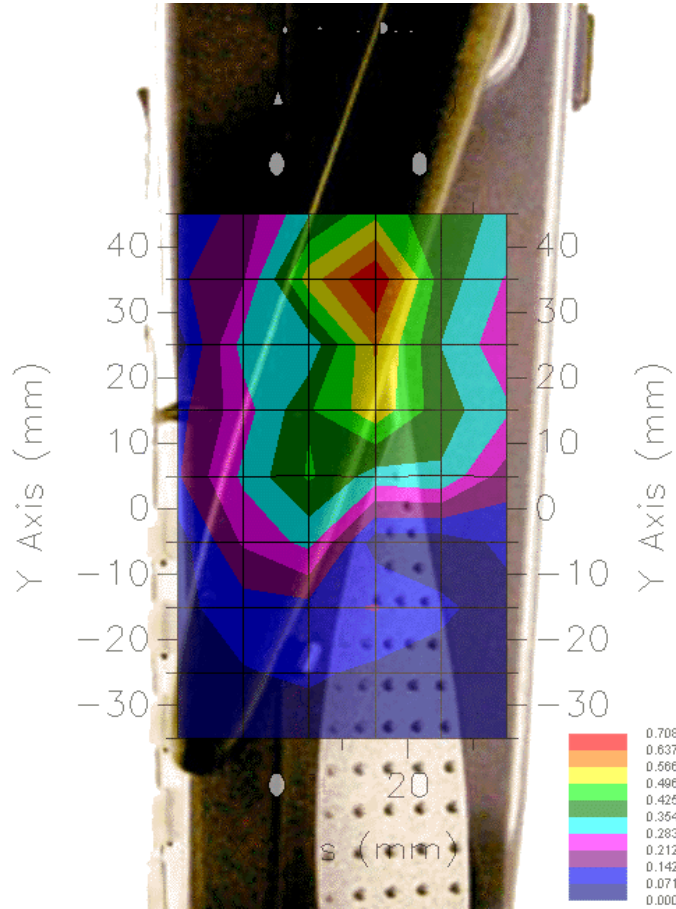
GRAPH 7

Left Side Up, Folded Antenna, Distance 0 mm
Channel 720 - medium, Frequency: 899 MHz



GRAPH 8 (Highest SAR)

Right Side Up, Folded Antenna, Distance 15 mm
Channel 720 - medium, Frequency: 899 MHz



AUTOMATED SAR DATA REPORT (GRPAH 8)

SAR Data Report Veri scan16 (Highest SAR)

Start : 14-May-02 11:26:54 am
End : 14-May-02 11:33:06 am
Code Version : 4.12
Robot Version: 4.08

Product Data:

Type : Veriphone
Model Number : OMNI 3600
Serial Number : P096-100-02
Frequency : 899 MHz
Transmit Pwr : 1.905 W
Antenna Type : 1/4 Wave
Antenna Posn. : Out

Measurement Data:

Phantom Name : APREL-Uni
Phantom Type : Uniphantom
Tissue Type : Muscle
Tissue Dielectric : 52.400
Tissue Conductivity : 1.090
Tissue Density : 1.000
Crest Factor : 10.000
Robot Name : CRS

Probe Data:

Probe Name : 163
Probe Type : E Fld Triangle
Frequency : 900 MHz
Tissue Type : Muscle
Calibrated Dielectric : 52.400
Calibrated Conductivity : 1.090
Probe Offset : 2.500 mm
Conversion Factor : 7.200
Diode Compression Pt : 76.0 mV
Probe Sensitivity : 0.580 0.580 0.580 mV/(mW/cm²)
Amplifier Gains : 20.00 20.00 20.00
Chan. Offset (mV) : 1.34 1.49 1.27

Sample:

Rate: 4000 Samples/Sec
Count: 1000 Samples
NIDAQ Gain: 5
Scan Time: 250.0 msec

Comments:

Right Side Up
15mm Separation Distance

Area Scan - Max Local SAR Value at x=14.0 y=27.0 = 1.09 W/kg

Zoom Scan - Max Local SAR Value at x=13.0 y=34.0 z=0.0 = 2.59 W/kg

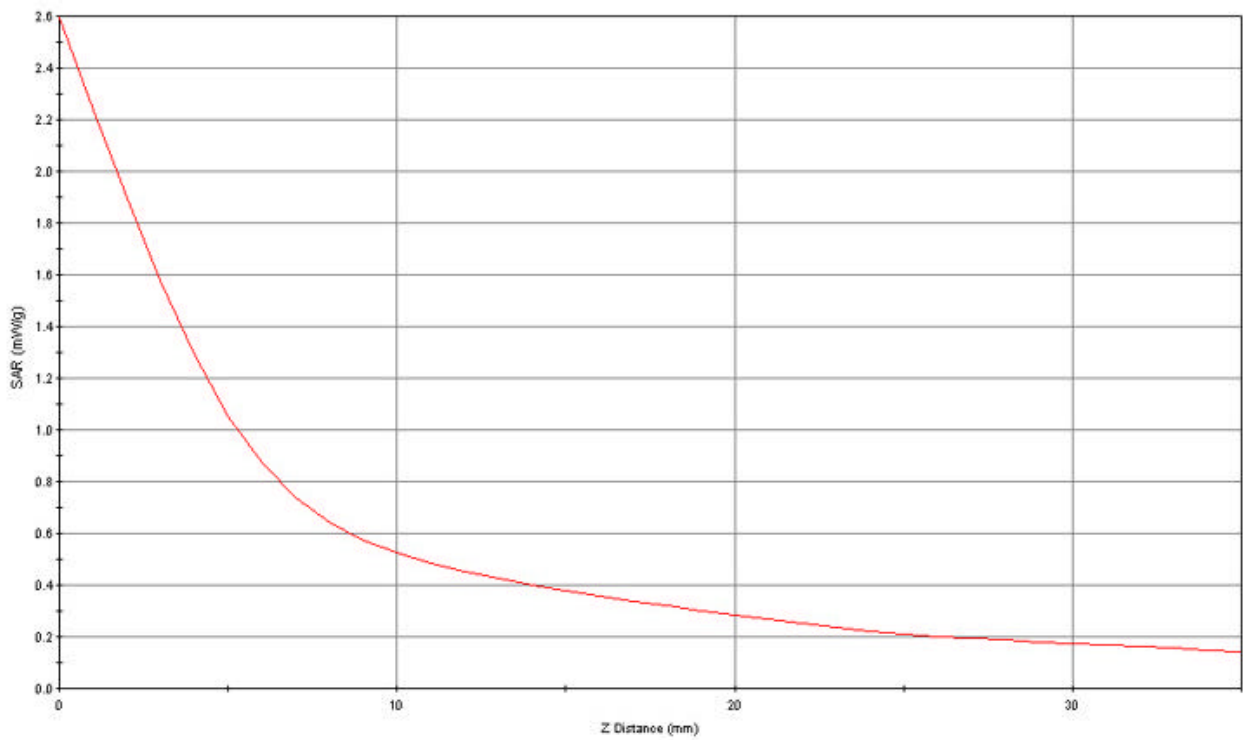
Max 1g SAR at x=14.0 y=34.0 z=0.0 = 1.15 W/kg

Max 10g SAR at x=11.0 y=32.0 z=0.0 = 0.51 W/kg



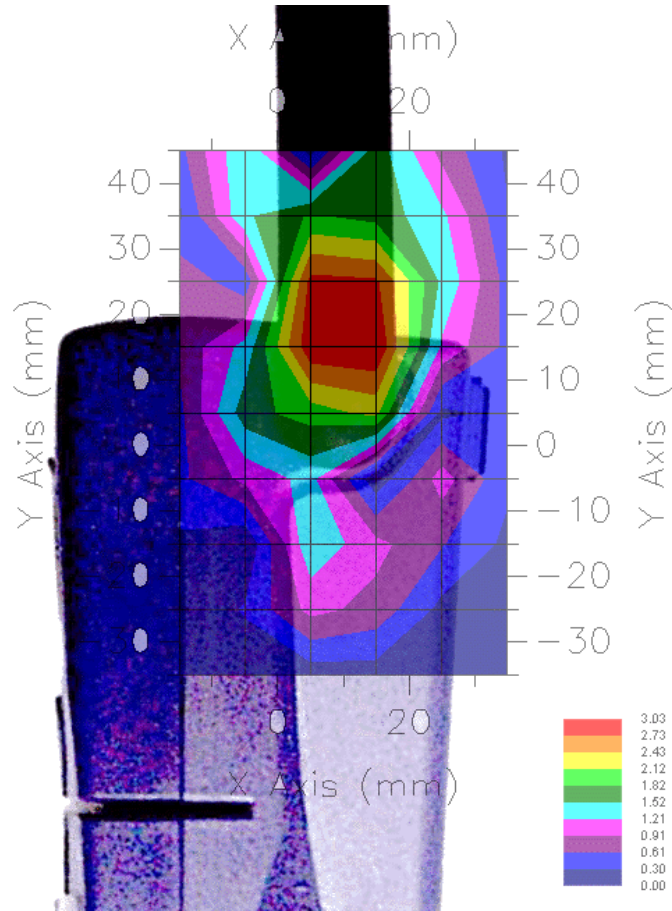
Z-axis Plot for Scan 16

SAR - Z Axis
at Hotspot x:13.0 y:34.0



GRAPH 10

Right Side Up, Extended Antenna, Distance 0 mm
Channel 720 - medium, Frequency: 899 MHz



AUTOMATED SAR DATA REPORT (GRPAH 9)

SAR Data Report Veri scan12

Start : 14-May-02 10:51:41 am
End : 14-May-02 10:57:53 am
Code Version : 4.12
Robot Version: 4.08

Product Data:

Type : Veriphone
Model Number : OMNI 3600
Serial Number : P096-100-02
Frequency : 899 MHz
Transmit Pwr : 1.905 W
Antenna Type : 1/4 Wave
Antenna Posn. : Out

Measurement Data:

Phantom Name : APREL-Uni
Phantom Type : Uniphantom
Tissue Type : Muscle
Tissue Dielectric : 52.400
Tissue Conductivity : 1.090
Tissue Density : 1.000
Crest Factor : 10.000
Robot Name : CRS

Probe Data:

Probe Name : 163
Probe Type : E Fld Triangle
Frequency : 900 MHz
Tissue Type : Muscle
Calibrated Dielectric : 52.400
Calibrated Conductivity : 1.090
Probe Offset : 2.500 mm
Conversion Factor : 7.200
Diode Compression Pt : 76.0 mV
Probe Sensitivity : 0.580 0.580 0.580 mV/(mW/cm²)
Amplifier Gains : 20.00 20.00 20.00
Chan. Offset (mV) : 1.34 1.49 1.27

Sample:

Rate: 4000 Samples/Sec
Count: 1000 Samples
NIDAQ Gain: 5
Scan Time: 250.0 msec

Comments:

Right Side Up
Antenna Extended

Area Scan - Max Local SAR Value at x=10.0 y=19.0 = 3.43 W/kg

Zoom Scan - Max Local SAR Value at x=19.0 y=19.0 z=0.0 = 15.78 W/kg

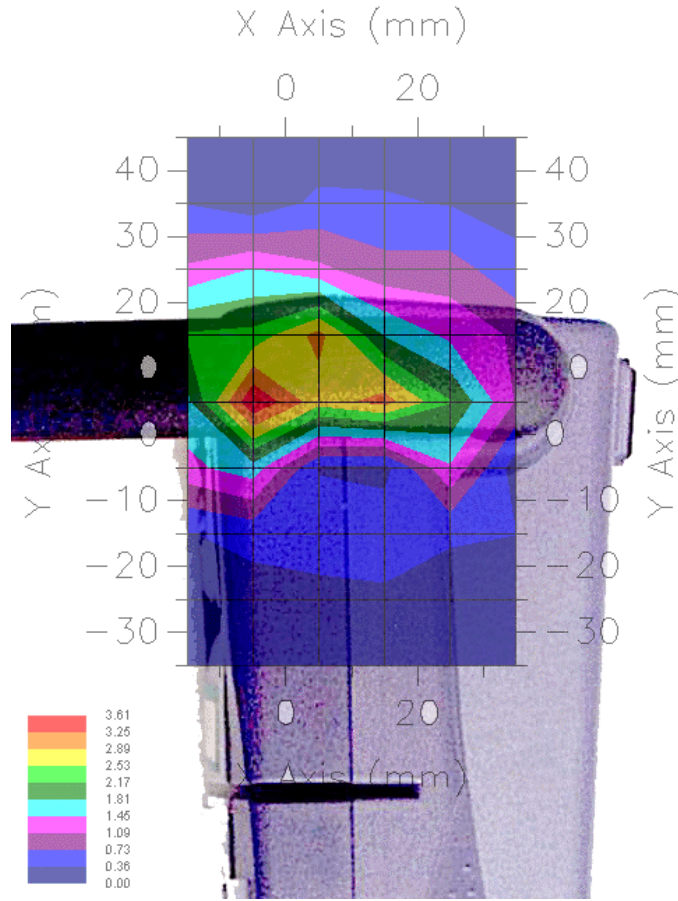
Max 1g SAR at x=0.0 y=20.0 z=0.0 = 3.93 W/kg

Max 10g SAR at x=10.0 y=24.0 z=0.0 = 1.68 W/kg



GRAPH 10

Right Side Up, Antenna at 90° angle, Distance 0 mm
Channel 720 - medium, Frequency: 899 MHz



AUTOMATED SAR DATA REPORT (GRPAH 10)

SAR Data Report Veri scan15

Start : 14-May-02 11:33:51 am
End : 14-May-02 11:40:06 am
Code Version : 4.12
Robot Version: 4.08

Product Data:

Type : Veriphone
Model Number : OMNI 3600
Serial Number : P096-100-02
Frequency : 899 MHz
Transmit Pwr : 1.905 W
Antenna Type : 1/4 Wave
Antenna Posn. : Out

Measurement Data:

Phantom Name : APREL-Uni
Phantom Type : Uniphantom
Tissue Type : Muscle
Tissue Dielectric : 52.400
Tissue Conductivity : 1.090
Tissue Density : 1.000
Crest Factor : 10.000
Robot Name : CRS

Probe Data:

Probe Name : 163
Probe Type : E Fld Triangle
Frequency : 900 MHz
Tissue Type : Muscle
Calibrated Dielectric : 52.400
Calibrated Conductivity : 1.090
Probe Offset : 2.500 mm
Conversion Factor : 7.200
Diode Compression Pt : 76.0 mV
Probe Sensitivity : 0.580 0.580 0.580 mV/(mW/cm²)
Amplifier Gains : 20.00 20.00 20.00
Chan. Offset (mV) : 1.34 1.49 1.27

Sample:

Rate: 4000 Samples/Sec
Count: 1000 Samples
NIDAQ Gain: 5
Scan Time: 250.0 msec

Comments:

Right Side Up
Antenna 90 degree

Area Scan - Max Local SAR Value at x=-4.0 y=6.0 z=0.0 = 3.61 W/kg

Zoom Scan - Max Local SAR Value at x=-20.0 y=-2.0 z=0.0 = 11.76 W/kg

Max 1g SAR at x=-8.0 y=7.0 z=0.0 = 3.39 W/kg

Max 10g SAR at x=-9.0 y=8.0 z=0.0 = 1.66 W/kg

