

SAR Test Report No.:

SAR_544_2003_FCC_850_1900_2450_AC555_KM8

Date of Report: 10/07/2003

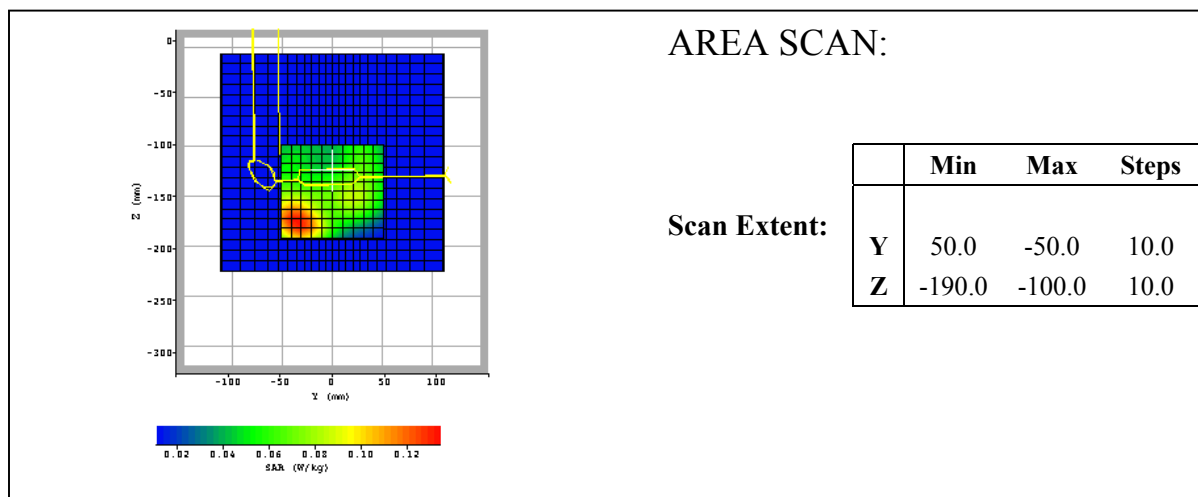
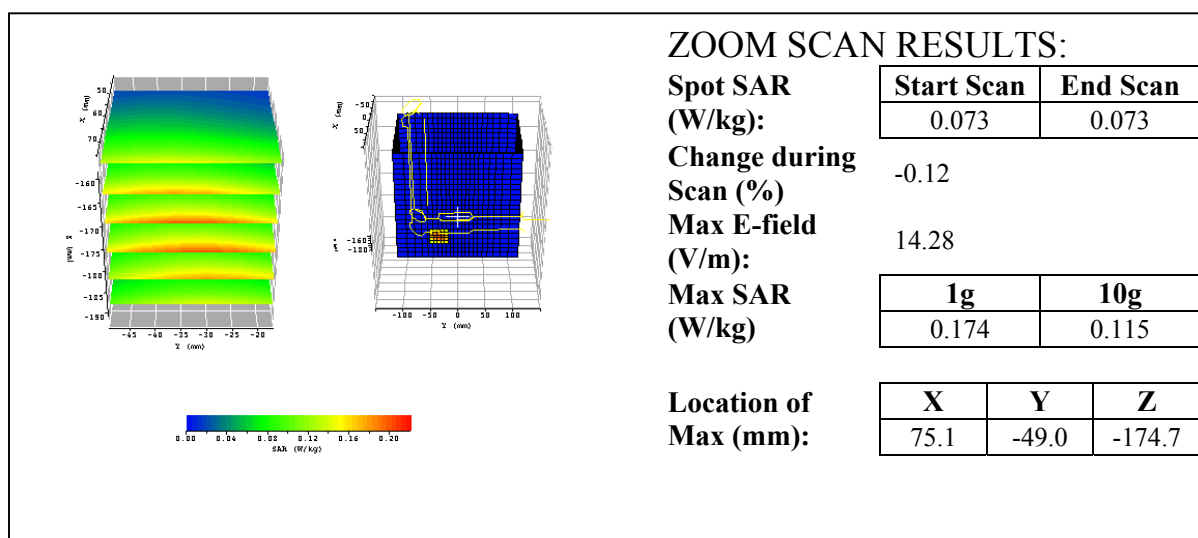
Appendix A Plots

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Date / Time:	9/4/2003 10:23:36 AM	Position:	Lap
Filename:	*.txt	Phantom:	HeadBox_new_spout.csv
Device Tested:	Xplore iX104 CDMA	Head Rotation:	0
Antenna:	integral	Test Frequency:	835
Shape File:	xplorgprslap.csv	Power Level:	maximum

Probe:	0106			
Cal File:	106_835_BODY_CDMA			
Cal Factors:		X	Y	Z
	Air	415	805	371
	DCP	20	20	20
	Lin	0.35	0.35	0.35
		7	7	7
Amp Gain:	2			
Averaging:	6			
Batteries				
Renlaced:	09/03/2003			

Liquid:	850
Type:	Body
Conductivity:	0.986
Relative Permittivity:	55.4
Liquid Temp (deg C):	22.0
Ambient Temp (deg C):	22.0
Ambient RH (%):	50
Density (kg/m3):	1000
Software Version:	0.420



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Date / Time:	9/4/2003 10:50:14 AM	Position:	bystander 1.5cm
Filename:	*.txt	Phantom:	HeadBox_new_spout.csv
Device Tested:	Xplore iX104 CDMA	Head Rotation:	0
Antenna:	integral	Test Frequency:	835
Shape File:	xplorgprsbystand.csv	Power Level:	maximum

Probe:	0106			
Cal File:	106_835_BODY_CDMA			
Cal Factors:		X	Y	Z
	Air	415	805	371
	DCP	20	20	20
	Lin	0.35	0.35	0.35
		7	7	7
Amp Gain:	2			
Averaging:	6			
Batteries				
Renlaced:	09/03/2003			

Liquid:	850
Type:	Body
Conductivity:	0.986
Relative Permittivity:	55.4
Liquid Temp (deg C):	22.0
Ambient Temp (deg C):	22.0
Ambient RH (%):	50
Density (kg/m3):	1000
Software Version:	0.420

Two 3D SAR scan plots are shown. The left plot displays the full volume with axes X (mm) from -165 to 50, Y (mm) from 15 to 40, and Z (mm) from -135 to -165. The right plot is a zoomed-in view of a specific region with axes X (mm) from -100 to 100, Y (mm) from -100 to 100, and Z (mm) from -240 to -180. A color scale at the bottom indicates SAR (W/kg) values from 0.0 (blue) to 0.4 (red).

ZOOM SCAN RESULTS:

Spot SAR

(W/kg):

Start Scan	End Scan
0.186	0.185

**Change during
Scan (%)**

-0.24

Max E-field

(V/m):

20.86

Max SAR

(W/kg)

1g	10g
0.376	0.257

Location of

Max (mm):

X	Y	Z
75.0	13.0	-149.5

A 2D heatmap representing an area scan of SAR (Specific Absorption Rate) on a head phantom. The horizontal axis is labeled 'Y (mm)' and ranges from -100 to 100. The vertical axis is labeled 'Z (mm)' and ranges from 0 to -300. The plot shows a color-coded distribution of SAR values, with a color bar at the bottom indicating the scale from 0.05 to 0.30 W/kg. The color bar uses a rainbow gradient: blue for 0.05, green for 0.10, yellow for 0.15, orange for 0.20, and red for 0.30. A yellow rectangular box highlights a region of high SAR (red/orange) in the center of the head phantom, approximately between Y = -25 and 25 mm and Z = -125 and -175 mm. A yellow bracket on the right side of the plot indicates the extent of the scan in the Z-direction, from approximately Z = -100 to Z = -190 mm.

AREA SCAN:

Scan Extent:

	Min	Max	Steps
Y	50.0	-50.0	10.0
Z	-190.0	-100.0	10.0

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Date / Time:	9/4/2003 11:16:22 AM	Position:	bystander 1.5cm
Filename:	*.txt	Phantom:	HeadBox_new_spout.csv
Device Tested:	Xplore iX104 CDMA	Head Rotation:	0
Antenna:	integral	Test Frequency:	825.25
Shape File:	xplorgprsbystand.csv	Power Level:	maximum

Probe:	0106			
Cal File:	106_835_BODY_CDMA			
Cal Factors:		X	Y	Z
	Air	415	805	371
	DCP	20	20	20
	Lin	0.35	0.35	0.35
		7	7	7
Amp Gain:	2			
Averaging:	6			
Batteries				
Renlaced:	09/03/2003			

Liquid:	850
Type:	Body
Conductivity:	0.977
Relative Permittivity:	55.8
Liquid Temp (deg C):	22.0
Ambient Temp (deg C):	22.0
Ambient RH (%):	50
Density (kg/m3):	1000
Software Version:	0.420

Two 3D SAR plots are shown. The left plot displays a full 3D volume with a color scale ranging from 0.00 to 0.35 W/kg. The right plot is a zoomed-in view of the same volume, showing a yellow rectangular region. The color scale is labeled 'SAR (W/kg)' and ranges from 0.00 to 0.35.

ZOOM SCAN RESULTS:

Spot SAR

(W/kg):

Start Scan	End Scan
0.130	0.130

**Change during
Scan (%)**

-0.06

Max E-field

(V/m):

17.53

Max SAR

(W/kg)

1g	10g
0.262	0.180

Location of

Max (mm):

X	Y	Z
75.0	13.0	-149.5

A 2D heatmap representing the SAR distribution on a head phantom. The horizontal axis is labeled 'Y (mm)' and ranges from -100 to 100. The vertical axis is labeled 'Z (mm)' and ranges from 0 to -300. The plot shows a color-coded SAR distribution, with a color bar at the bottom indicating values from 0.04 to 0.20 W/kg. A yellow rectangular region is highlighted on the head phantom, indicating the area of interest for the scan. The color bar is labeled 'SAR (W/kg)' and has tick marks at 0.04, 0.08, 0.12, 0.16, and 0.20.

AREA SCAN:

Scan Extent:

	Min	Max	Steps
Y	50.0	-50.0	10.0
Z	-190.0	-100.0	10.0

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Date / Time:	9/4/2003 11:43:05 AM	Position:	bystander 1.5cm
Filename:	*.txt	Phantom:	HeadBox_new_spout.csv
Device Tested:	Xplore iX104 CDMA	Head Rotation:	0
Antenna:	integral	Test Frequency:	847.75
Shape File:	xplorgprsbystand.csv	Power Level:	maximum

Probe:	0106			
Cal File:	106_835_BODY_CDMA			
Cal Factors:		X	Y	Z
	Air	415	805	371
	DCP	20	20	20
	Lin	0.35	0.35	0.35
		7	7	7
Amp Gain:	2			
Averaging:	6			
Batteries				
Renlaced:	09/03/2003			

Liquid:	850
Type:	Body
Conductivity:	0.992
Relative Permittivity:	55.3
Liquid Temp (deg C):	22.0
Ambient Temp (deg C):	22.0
Ambient RH (%):	50
Density (kg/m3):	1000
Software Version:	0.420

The figure displays two 3D surface plots of SAR distribution. The left plot shows a color-coded SAR distribution on a rectangular grid, with the X-axis (mm) ranging from 15 to 40, the Y-axis (mm) ranging from -165 to -135, and the Z-axis (mm) ranging from -50 to 50. The right plot shows a 3D wireframe model of a head phantom with SAR distribution, with the X-axis (mm) ranging from -100 to 100, the Y-axis (mm) ranging from -160 to -140, and the Z-axis (mm) ranging from -50 to 50. A color bar below the plots indicates SAR values from 0.00 to 0.40 W/kg.

ZOOM SCAN RESULTS:

Spot SAR

(W/kg):

Start Scan	End Scan
0.161	0.161

**Change during
Scan (%)**

-0.05

Max E-field

(V/m):

19.60

Max SAR

(W/kg)

1g	10g
0.331	0.225

Location of

Max (mm):

X	Y	Z
75.0	12.0	-149.3

The figure displays a 2D color-coded plot of SAR distribution on a grid. The horizontal axis is labeled 'Y (mm)' and ranges from -100 to 100. The vertical axis is labeled 'Z (mm)' and ranges from -300 to 0. A color bar at the bottom indicates SAR values in W/kg, ranging from 0.05 (blue) to 0.25 (red). The plot shows a central region of high SAR (red/orange) surrounded by lower values (green/blue). A yellow rectangular box highlights a specific area within the high-SAR region, and a white dashed line outlines a larger area.

AREA SCAN:

Scan Extent:

	Min	Max	Steps
Y	50.0	-50.0	10.0
Z	-190.0	-100.0	10.0

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1900MHz:

Date / Time:	9/3/2003 3:32:01 PM	Position:	Lap
Filename:	*.txt	Phantom:	HeadBox_new_spout.csv
Device Tested:	Xplore iX104 CDMA	Head Rotation:	0
Antenna:	integral	Test Frequency:	1880
Shape File:	xplorgprslap.csv	Power Level:	maximum

Probe:	0106			
Cal File:	106_1900_BODY_CDMA			
Cal Factors:		X	Y	Z
	Air	415	805	371
	DCP	20	20	20
	Lin	0.47	0.47	0.47
		7	7	7
Amp Gain:	2			
Averaging:	6			
Batteries				
Renlaced:	09/03/2003			

Liquid:	1900
Type:	Body
Conductivity:	1.540
Relative Permittivity:	53.27
Liquid Temp (deg C):	22.0
Ambient Temp (deg C):	22.0
Ambient RH (%):	50
Density (kg/m3):	1000
Software Version:	0.420

The figure displays two 3D SAR plots and a color scale. The left plot shows the SAR distribution in a 3D volume, with the X-axis (mm) ranging from -25 to 10, the Y-axis (mm) ranging from -25 to 10, and the Z-axis (mm) ranging from -180 to 50. The right plot shows a zoomed-in view of the SAR distribution, with the X-axis (mm) ranging from -100 to 100, the Y-axis (mm) ranging from -100 to 100, and the Z-axis (mm) ranging from -150 to -50. The color scale ranges from 0.0 to 0.7 W/kg, with 0.0 being blue and 0.7 being red.

ZOOM SCAN RESULTS:

Spot SAR

(W/kg):

**Change during
Scan (%)**

Max E-field

(V/m):

Max SAR

(W/kg)

Start Scan

End Scan

0.178

0.177

-0.69

21.08

1g

10g

0.573

0.346

**Location of
Max (mm):**

X

Y

Z

75.1

-40.0

-174.7

A 2D AREA SCAN plot showing SAR distribution in a 2D plane. The color scale ranges from 0.05 to 0.40 W/kg. The axes are X (mm) and Y (mm). The plot shows a grid of blue squares, with a central region of higher SAR values (yellow and red) indicating a localized source. A yellow line traces the boundary of the scan area, which is a square with a side length of 200 mm, centered at (0,0). The color scale is labeled SAR (W/kg) and ranges from 0.05 to 0.40.

AREA SCAN:

Scan Extent:

	Min	Max	Steps
Y	50.0	-50.0	10.0
Z	-190.0	-100.0	10.0

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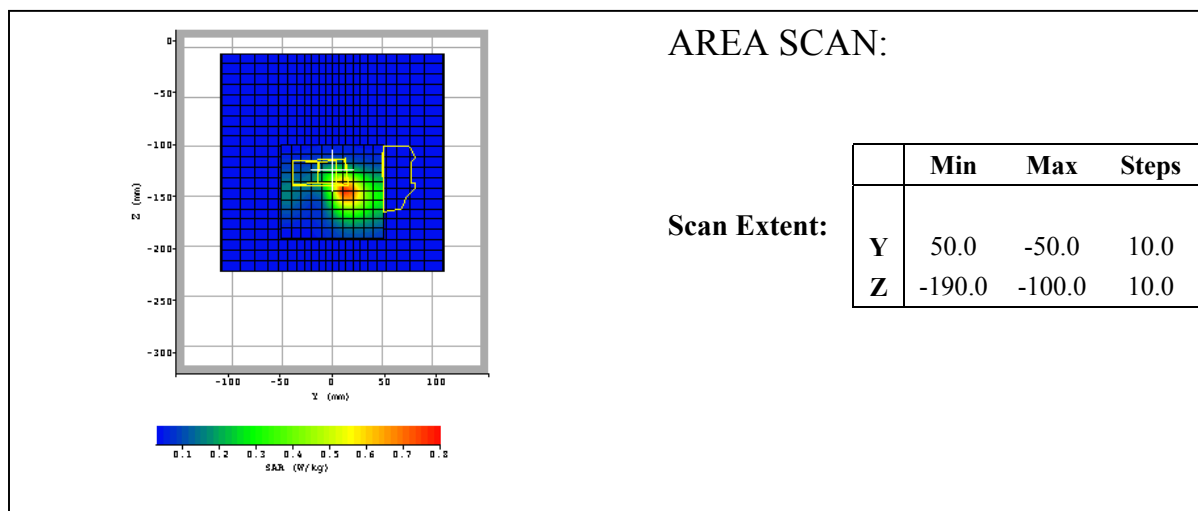
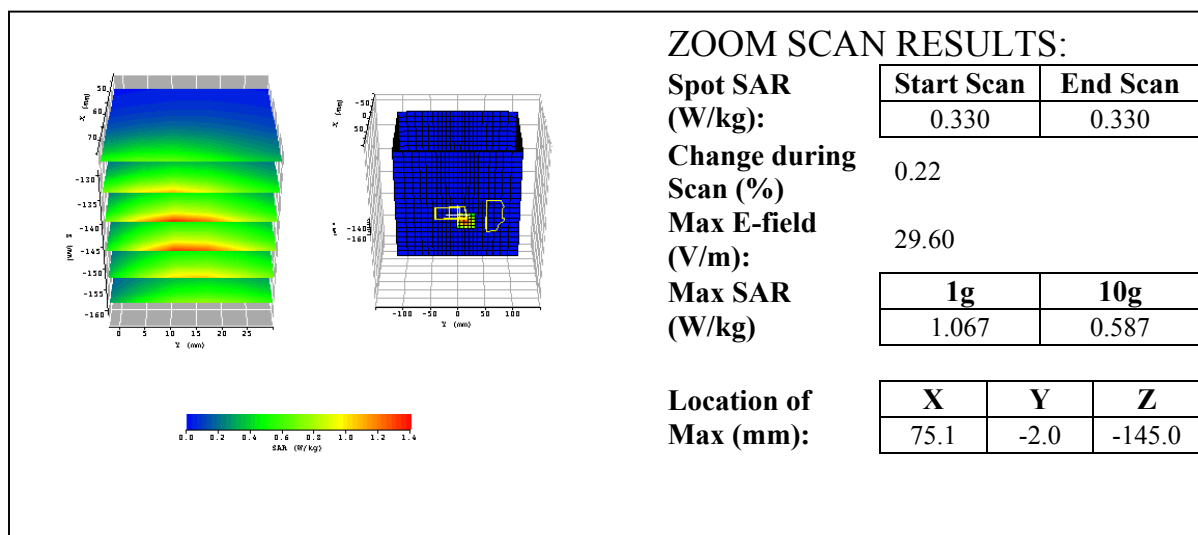
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Date / Time:	9/3/2003 4:26:52 PM	Position:	bystander 1.5cm
Filename:	*.txt	Phantom:	HeadBox_new_spout.csv
Device Tested:	Xplore iX104 CDMA	Head Rotation:	0
Antenna:	integral	Test Frequency:	1880
Shape File:	xplorgprsbystand.csv	Power Level:	maximum

Probe:	0106			
Cal File:	106_1900_BODY_CDMA			
Cal Factors:		X	Y	Z
	Air	415	805	371
	DCP	20	20	20
	Lin	0.47 7	0.47 7	0.47 7
Amp Gain:	2			
Averaging:	6			
Batteries				
Renlaced:	09/03/2003			

Liquid:	1900
Type:	Body
Conductivity:	1.540
Relative Permittivity:	53.27
Liquid Temp (deg C):	22.0
Ambient Temp (deg C):	22.0
Ambient RH (%):	50
Density (kg/m3):	1000
Software Version:	0.420



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Date / Time:	9/3/2003 4:52:34 PM	Position:	bystander 1.5cm
Filename:	*.txt	Phantom:	HeadBox_new_spout.csv
Device Tested:	Xplore iX104 CDMA	Head Rotation:	0
Antenna:	integral	Test Frequency:	1851.25
Shape File:	xplorgprsbystand.csv	Power Level:	maximum

Probe:	0106			
Cal File:	106_1900_BODY_CDMA			
Cal Factors:		X	Y	Z
	Air	415	805	371
	DCP	20	20	20
	Lin	0.47	0.47	0.47
		7	7	7
Amp Gain:	2			
Averaging:	6			
Batteries				
Renlaced:	09/03/2003			

Liquid:	1900
Type:	Body
Conductivity:	1.531
Relative Permittivity:	53.46
Liquid Temp (deg C):	22.0
Ambient Temp (deg C):	22.0
Ambient RH (%):	50
Density (kg/m3):	1000
Software Version:	0.420

The figure displays two 3D surface plots of SAR distribution. The left plot shows a color-coded SAR map with a color bar ranging from 0.0 to 1.2 W/kg. The right plot shows a wireframe model of the device with SAR values indicated by color. The color bar is labeled 'SAR (W/kg)' and ranges from 0.0 to 1.2.

ZOOM SCAN RESULTS:

Spot SAR

(W/kg):

Start Scan	End Scan
0.250	0.253

**Change during
Scan (%)**

1.15

Max E-field

(V/m):

26.03

Max SAR

(W/kg)

1g	10g
0.816	0.448

Location of

Max (mm):

X	Y	Z
75.1	-2.0	-145.0

The figure displays a 2D color-coded SAR plot. The horizontal axis is labeled 'Y (mm)' and ranges from -100 to 100. The vertical axis is labeled 'Z (mm)' and ranges from -200 to 0. A color bar at the bottom indicates SAR values in W/kg, ranging from 0.1 (blue) to 0.5 (red). A yellow rectangular region is highlighted in the center of the plot, with a color bar below it ranging from 0.1 to 0.5 W/kg.

AREA SCAN:

Scan Extent:

	Min	Max	Steps
Y	50.0	-50.0	10.0
Z	-190.0	-100.0	10.0

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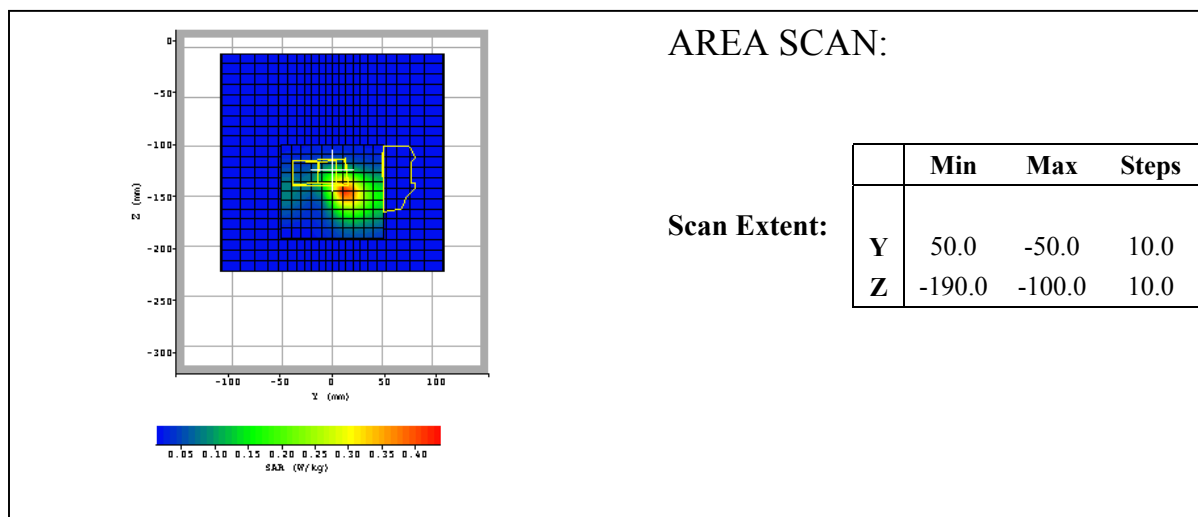
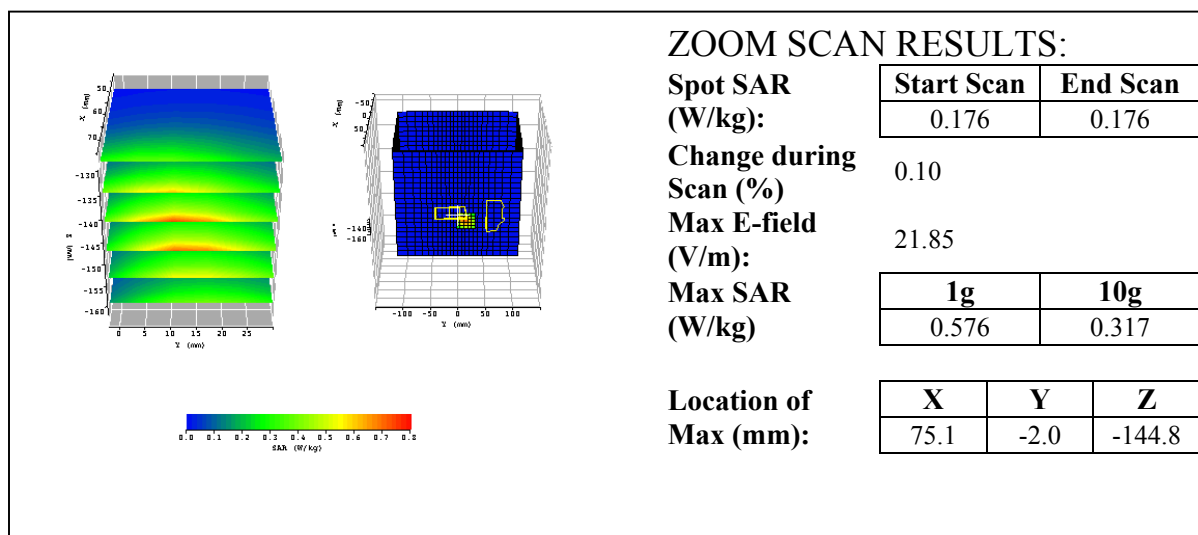
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Date / Time:	9/3/2003 5:19:41 PM	Position:	bystander 1.5cm
Filename:	*.txt	Phantom:	HeadBox_new_spout.csv
Device Tested:	Xplore iX104 CDMA	Head Rotation:	0
Antenna:	integral	Test Frequency:	1908.75
Shape File:	xplorgprsbystand.csv	Power Level:	maximum

Probe:	0106			
Cal File:	106_1900_BODY_CDMA			
Cal Factors:		X	Y	Z
	Air	415	805	371
	DCP	20	20	20
	Lin	0.47	0.47	0.47
		7	7	7
Amp Gain:	2			
Averaging:	6			
Batteries				
Renlaced:	09/03/2003			

Liquid:	1900
Type:	Body
Conductivity:	1.551
Relative Permittivity:	53.06
Liquid Temp (deg C):	22.0
Ambient Temp (deg C):	22.0
Ambient RH (%):	50
Density (kg/m3):	1000
Software Version:	0.420



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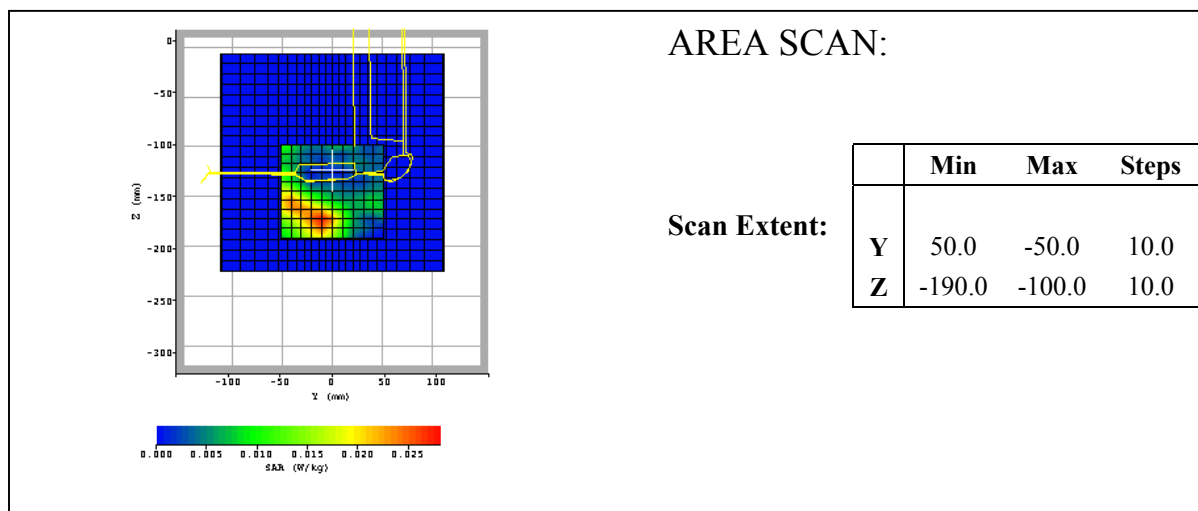
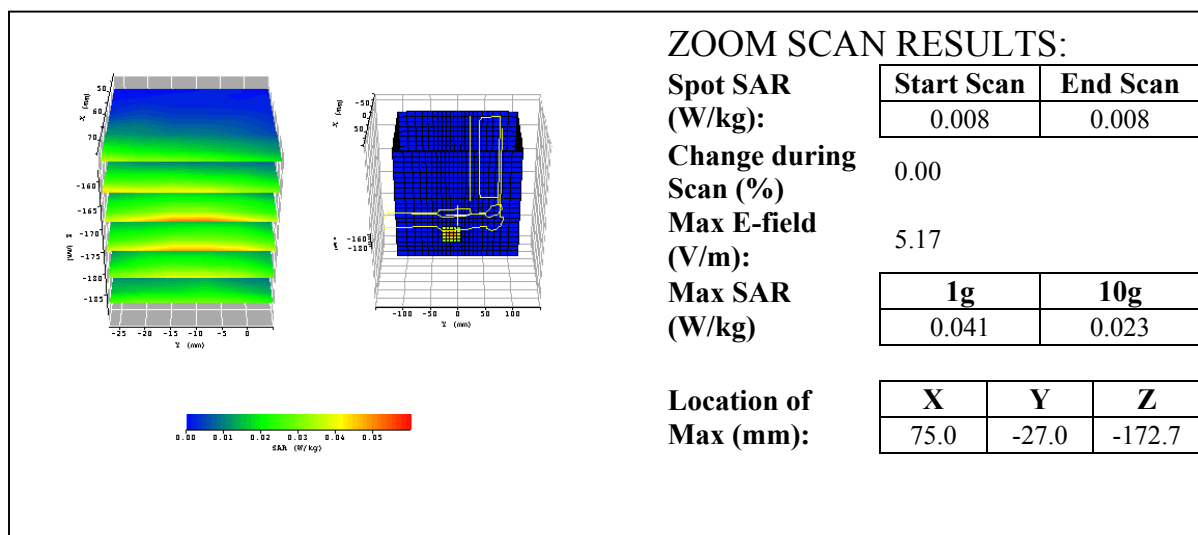
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Date / Time:	9/4/2003 1:27:03 PM	Position:	lap
Filename:	*.txt	Phantom:	HeadBox_new_spout.csv
Device Tested:	Xplore iX104 802.11b KM8	Head Rotation:	0
Antenna:	integral	Test Frequency:	2437
Shape File:	xplor802lap.csv	Power Level:	maximum

Probe:	0106			
Cal File:	106_2450_BODY_802_11			
Cal Factors:		X	Y	Z
	Air	415	805	371
	DCP	19	19	19
	Lin	0.58 5	0.58 5	0.58 5
Amp Gain:	2			
Averaging:	6			
Batteries				
Renlaced:	09/03/2003			

Liquid:	2400
Type:	Body
Conductivity:	1.945
Relative Permittivity:	51.5
Liquid Temp (deg C):	22.0
Ambient Temp (deg C):	22.0
Ambient RH (%):	50
Density (kg/m3):	1000
Software Version:	0.420



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Date / Time:	9/4/2003 1:59:48 PM	Position:	bystander 1.5cm
Filename:	*.txt	Phantom:	HeadBox_new_spout.csv
Device Tested:	Xplore iX104 802.11b KM8	Head Rotation:	0
Antenna:	integral	Test Frequency:	2437
Shape File:	xplor802bystand.csv	Power Level:	maximum

Probe:	0106			
Cal File:	106_2450_BODY_802_11			
Cal Factors:		X	Y	Z
	Air	415	805	371
	DCP	19	19	19
	Lin	0.58	0.58	0.58
		5	5	5
Amp Gain:	2			
Averaging:	6			
Batteries				
Renlaced:	09/03/2003			

Liquid:	2400
Type:	Body
Conductivity:	1.945
Relative Permittivity:	51.5
Liquid Temp (deg C):	22.0
Ambient Temp (deg C):	22.0
Ambient RH (%):	50
Density (kg/m3):	1000
Software Version:	0.420

The figure displays two 3D SAR scan visualizations. The left plot shows a color-coded SAR distribution over a grid of Y (mm) and Z (mm). The right plot shows a 3D grid with a yellow box highlighting a region of interest. A color bar at the bottom indicates SAR values from 0.00 to 0.08 W/kg.

ZOOM SCAN RESULTS:

Spot SAR

(W/kg):

Start Scan	End Scan
0.022	0.022

**Change during
Scan (%)**

0.00

Max E-field

(V/m):

6.60

Max SAR

(W/kg)

1g	10g
0.072	0.042

Location of

Max (mm):

X	Y	Z
75.1	10.0	-149.5

A 2D AREA SCAN plot showing a color-coded grid of the scanned area. The color scale ranges from 0.01 (blue) to 0.05 (red). The axes are X (mm) and Y (mm). The plot shows a central region of high intensity (red/orange) surrounded by lower intensity (green/blue). A yellow rectangular box highlights the central region, and a yellow bracket indicates the extent of the scan along the Y-axis.

Color scale: $\Delta A/\Delta h$ (W/kg)

Value
0.01
0.02
0.03
0.04
0.05

AREA SCAN:

Scan Extent:

	Min	Max	Steps
Y	50.0	-50.0	10.0
Z	-190.0	-100.0	10.0

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Date / Time:	9/4/2003 2:27:48 PM	Position:	bystander 1.5cm
Filename:	*.txt	Phantom:	HeadBox_new_spout.csv
Device Tested:	Xplore iX104 802.11b KM8	Head Rotation:	0
Antenna:	integral	Test Frequency:	2412
Shape File:	xplor802bystand.csv	Power Level:	maximum

Probe:	0106			
Cal File:	106_2450_BODY_802_11			
Cal Factors:		X	Y	Z
	Air	415	805	371
	DCP	19	19	19
	Lin	0.58 5	0.58 5	0.58 5
Amp Gain:	2			
Averaging:	6			
Batteries				
Renlaced:	09/03/2003			

Liquid:	2400
Type:	Body
Conductivity:	1.932
Relative Permittivity:	51.6
Liquid Temp (deg C):	22.0
Ambient Temp (deg C):	22.0
Ambient RH (%):	50
Density (kg/m3):	1000
Software Version:	0.420

The figure displays two 3D surface plots of SAR distribution. The left plot shows a color-coded SAR distribution with a color bar ranging from 0.00 to 0.02 W/kg. The right plot shows a wireframe model of the device with a yellow box indicating the location of maximum SAR.

ZOOM SCAN RESULTS:

Spot SAR

(W/kg):

Start Scan

0.020

End Scan

0.020

Change during

Scan (%)

-2.76

Max E-field

(V/m):

6.67

Max SAR

(W/kg)

1g

0.073

10g

0.043

Location of

Max (mm):

X

75.1

Y

10.0

Z

-149.5

Area Scan plot showing SAR distribution. The plot is a 2D grid with X (mm) on the horizontal axis and Z (mm) on the vertical axis. The X-axis ranges from -100 to 100 mm, and the Z-axis ranges from -300 to 0 mm. A color bar at the bottom indicates SAR values in W/kg, ranging from 0.01 (blue) to 0.05 (red). A yellow rectangular box highlights the area of maximum SAR, centered around X=0 and Z=-150 mm. The SAR values are highest in this region, reaching up to 0.05 W/kg.

AREA SCAN:

Scan Extent:

	Min	Max	Steps
Y	50.0	-50.0	10.0
Z	-190.0	-100.0	10.0

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Filename:	*.txt	Phantom:	HeadBox_new_spout.csv
Device Tested:	Xplore iX104 802.11b KM8	Head Rotation:	0
Antenna:	integral	Test Frequency:	2462
Shape File:	xplor802bystand.csv	Power Level:	maximum

Probe:	0106			
Cal File:	106_2450_BODY_802_11			
Cal Factors:		X	Y	Z
	Air	415	805	371
	DCP	19	19	19
	Lin	0.58 5	0.58 5	0.58 5
Amp Gain:	2			
Averaging:	6			
Batteries				
Renlaced:	09/03/2003			

Liquid:	2400
Type:	Body
Conductivity:	1.961
Relative Permittivity:	51.1
Liquid Temp (deg C):	22.0
Ambient Temp (deg C):	22.0
Ambient RH (%):	50
Density (kg/m3):	1000
Software Version:	0.420

ZOOM SCAN RESULTS:

Spot SAR
(W/kg):

Start Scan	End Scan
0.019	0.019

Change during
Scan (%)

-1.27

Max E-field
(V/m):

6.51

Max SAR
(W/kg)

1g	10g
0.070	0.041

Location of
Max (mm):

X	Y	Z
75.1	9.0	-149.5

A 2D AREA SCAN plot showing a color-coded grid of SAR values. The color scale ranges from 0.01 (blue) to 0.05 (red) W/kg. The axes are X (mm) and Y (mm). The plot shows a central region of high SAR (red/orange) surrounded by lower values (green/blue). A yellow outline highlights a specific area of interest within the high-SAR region.

Color scale: SAR (W/kg)

0.01 0.02 0.03 0.04 0.05

AREA SCAN:

Scan Extent:

	Min	Max	Steps
Y	50.0	-50.0	10.0
Z	-190.0	-100.0	10.0