

8 - TEST RESULTS

This page summarizes the results of the performed dosimetric evaluation. The plots with the corresponding SAR distributions, which reveal information about the location of the maximum SAR with respect to the device could be found in the following pages.

8.1 SAR Body-Worn Test Data

Ambient Temperature (°C): 23.0

Relative Humidity (%): 49.3

Worst case SAR reading

EUT Position	Ch (MHz)	Conducted Power (W)	Worst case SAR, averaged over 1g [mW/g]				
			Setup condition (applicable checked)		Measured		Limit
			Antenna	Phantom	100% duty cycle	50% duty cycle	
2.5cm Separation without Belt Clip	148	4.37	Built-in	Flat	2.71	1.355	8
2.5cm Separation with Belt Clip	148	4.37			2.22	1.11	8
2.5cm Separation without Belt Clip	163	4.07			2.54	1.27	8
2.5cm Separation with Belt Clip	163	4.07			2.37	1.185	8
2.5cm Separation without Belt Clip	174	3.89			3.52	1.76	8
2.5cm Separation with Belt Clip	174	3.89			2.61	1.305	8
2.5cm Facing Left Face	148	4.37			3.64	1.82	8
2.5cm Facing Left Face	163	4.37			1.76	0.88	8
2.5cm Facing Left Face	174	4.07			3.63	1.815	8
2.5cm Facing Right Face	148	4.07			3.72	1.86	8
2.5cm Facing Right Face	163	3.89			3.49	1.745	8
2.5cm Facing Right Face	174	3.89			3.63	1.815	8

8.2 Plots of Test Result

The plots of test result were attached as reference.

RELm Wireless RPV599A (without belt clip, 21 Deg C, 12/2/02)

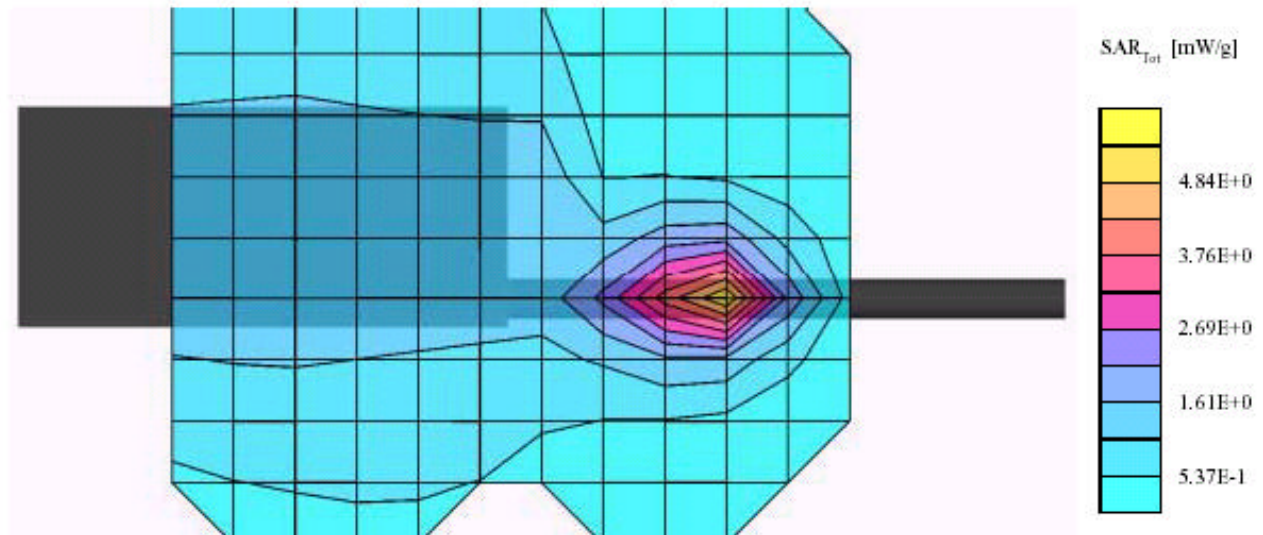
SAM Phantom; Flat Section; Position: (90°,90°); Frequency: 148 MHz

Probe: ET3DV6 - SN1604; ConvF(8.80,8.80,8.80); Crest factor: 1.0; Flat (Body) 150 MHz: $\sigma = 0.78 \text{ mho/m}$, $\epsilon_r = 59.1$, $\rho = 1.00 \text{ g/cm}^3$

Cube 5x5x7: SAR (1g): 2.71 mW/g, SAR (10g): 1.65 mW/g, (Worst-case extrapolation)

Coarse: Dx = 17.0, Dy = 17.0, Dz = 14.0

Powerdrift: -0.03 dB



REL M Wireless RPV599A (with belt clip, 21 Deg C, 12/2/02)

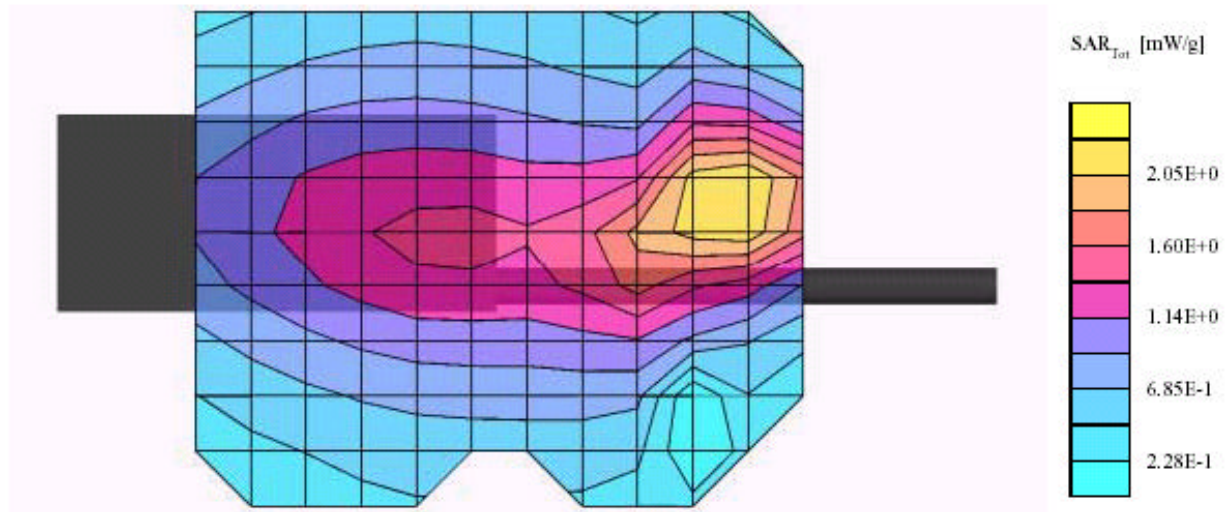
SAM Phantom; Flat Section; Position: (90°,90°); Frequency: 148 MHz

Probe: ET3DV6 - SN1604; ConvF(8.80,8.80,8.80); Crest factor: 1.0; Body 150 MHz: $\sigma = 0.78 \text{ mho/m}$, $\epsilon_r = 59.1$, $\rho = 1.00 \text{ g/cm}^3$

Cube 5x5x7: SAR (1g): 2.22 mW/g, SAR (10g): 1.51 mW/g, (Worst-case extrapolation)

Coarse: Dx = 17.0, Dy = 17.0, Dz = 14.0

Powerdrift: -0.02 dB



REL M Wireless RPV599A (without belt clip, 21 Deg C, 12/2/02)

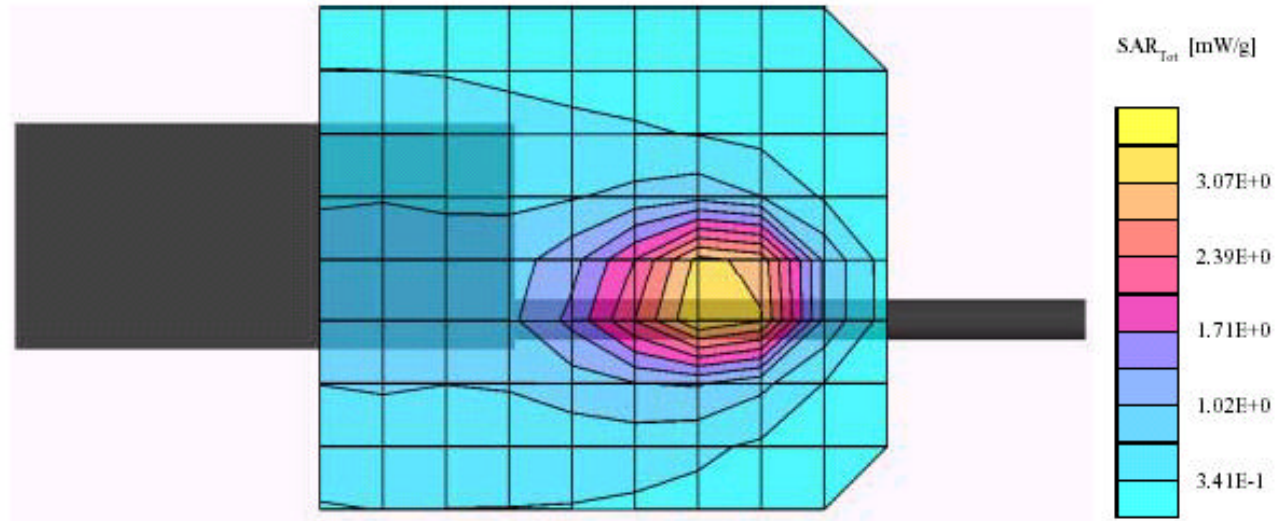
SAM Phantom; Flat Section; Position: (90°,90°); Frequency: 163 MHz

Probe: ET3DV6 - SN1604; ConvF(8.80,8.80,8.80); Crest factor: 1.0; Body 150 MHz: $\sigma = 0.78 \text{ mho/m}$, $\epsilon_r = 59.1$, $\rho = 1.00 \text{ g/cm}^3$

Cube 5x5x7: SAR (1g): 2.54 mW/g, SAR (10g): 1.57 mW/g, (Worst-case extrapolation)

Coarse: Dx = 17.0, Dy = 17.0, Dz = 14.0

Powerdrift: -0.02 dB



RELm Wireless RPV599A (with belt clip, 21 Deg C, 12/2/02)

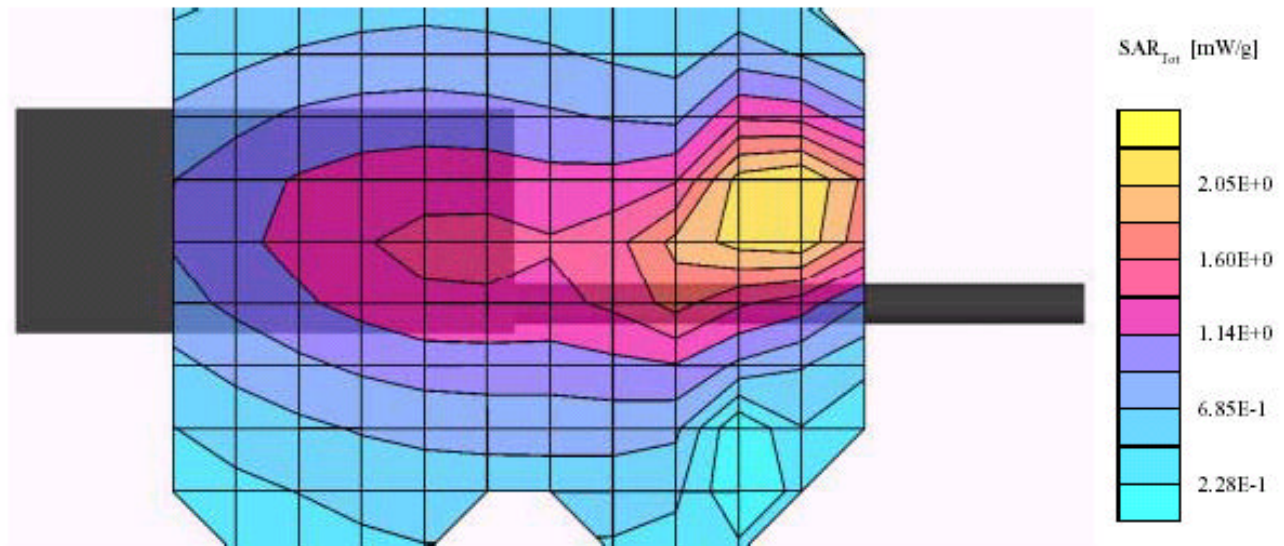
SAM Phantom; Flat Section; Position: (90°,90°); Frequency: 163 MHz

Probe: ET3DV6 - SN1604; ConvF(8.80,8.80,8.80); Crest factor: 1.0; Flat (Body) 150 MHz: $\sigma = 0.78 \text{ mho/m}$, $\epsilon_r = 59.1$, $\rho = 1.00 \text{ g/cm}^3$

Cube 5x5x7: SAR (1g): 2.37 mW/g, SAR (10g): 1.61 mW/g, (Worst-case extrapolation)

Coarse: Dx = 17.0, Dy = 17.0, Dz = 14.0

Powerdrift: -0.01 dB



REL M Wireless RPV599A (without belt clip, 21 Deg C, 12/2/02)

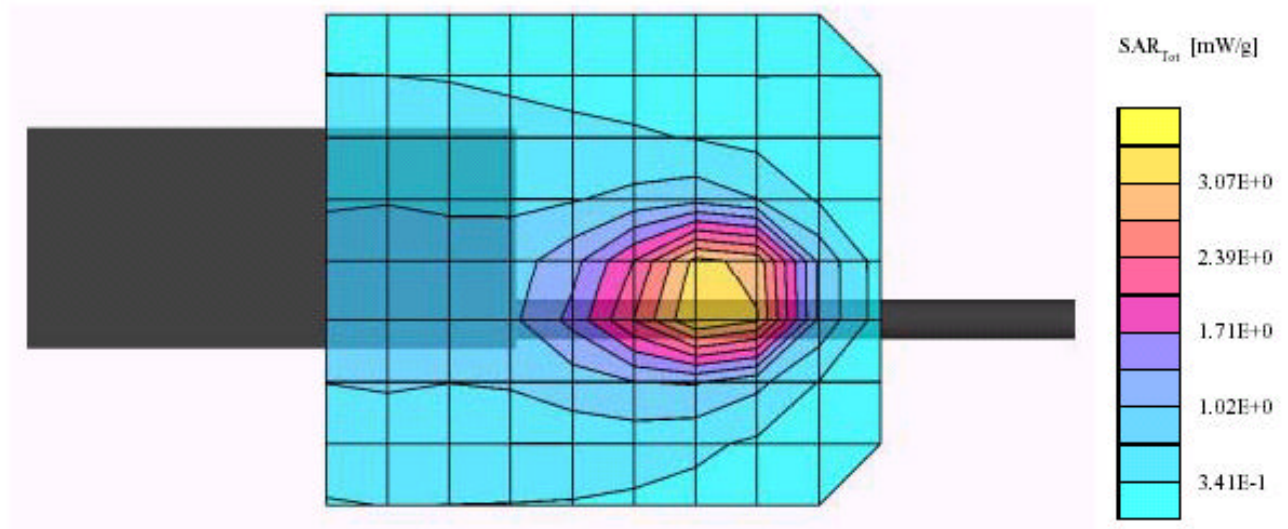
SAM Phantom; Flat Section; Position: (90°,90°); Frequency: 174 MHz

Probe: ET3DV6 - SN1604; ConvF(8.80,8.80,8.80); Crest factor: 1.0; Flat (Body) 150 MHz: $\sigma = 0.78 \text{ mho/m}$ $\epsilon_r = 59.1$ $\rho = 1.00 \text{ g/cm}^3$

Cube 5x5x7: SAR (1g): 3.52 mW/g, SAR (10g): 1.95 mW/g, (Worst-case extrapolation)

Coarse: Dx = 17.0, Dy = 17.0, Dz = 14.0

Powerdrift: -0.04 dB



REL M Wireless RPV599A (with belt clip, 21 Deg C, 12/2/02)

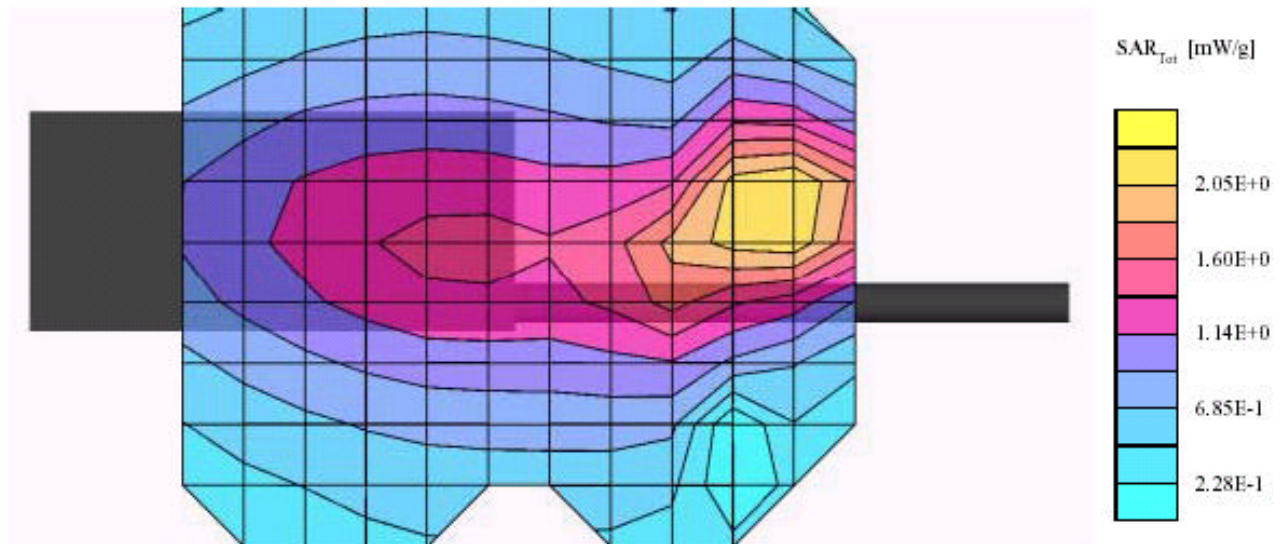
SAM Phantom; Flat Section; Position: (90°,90°); Frequency: 174 MHz

Probe: ET3DV6 - SN1604; ConvF(8.80,8.80,8.80); Crest factor: 1.0; Flat (Body) 150 MHz: $\sigma = 0.78 \text{ mho/m}$, $\epsilon_r = 59.1$, $\rho = 1.00 \text{ g/cm}^3$

Cube 5x5x7: SAR (1g): 2.61 mW/g, SAR (10g): 1.27 mW/g, (Worst-case extrapolation)

Coarse: Dx = 17.0, Dy = 17.0, Dz = 14.0

Powerdrift: -0.03 dB



RELm Wireless RPV599A (EUT 2.5cm facing left face, 22 Deg C, 12/2/02)

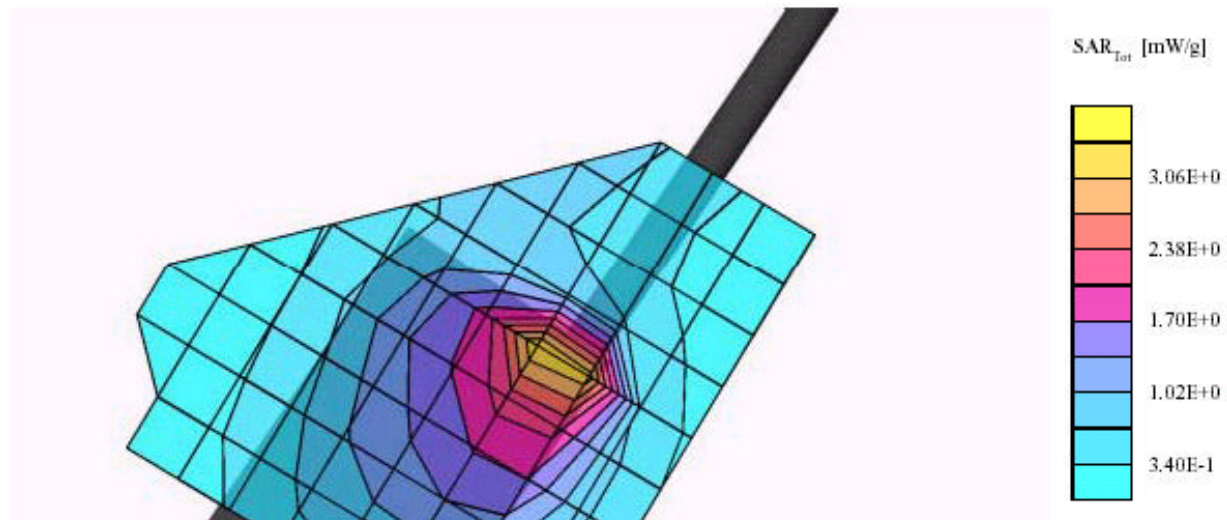
SAM Phantom; Left Hand Section; Position: (87°,56°); Frequency: 148 MHz

Probe: ET3DV6 - SN1604; ConvF(9.20,9.20,9.20); Crest factor: 1.0; Head 150 MHz: $\sigma = 0.75 \text{ mho/m}$, $\epsilon_r = 52.0$, $\rho = 1.00 \text{ g/cm}^3$

Cube 5x5x7: SAR (1g): 3.64 mW/g, SAR (10g): 1.75 mW/g, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0

Powerdrift: -0.16 dB



RELm Wireless RPV599A (EUT 2.5cm facing left face, 22 Deg C, 12/2/02)

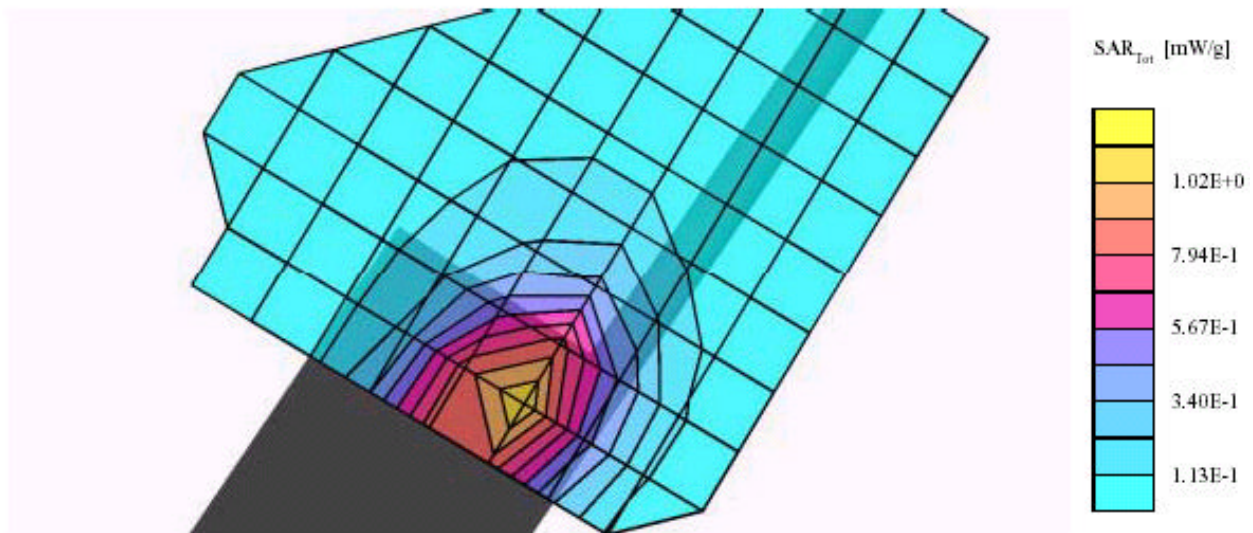
SAM Phantom; Left Hand Section; Position: (87°, 56°); Frequency: 163 MHz

Probe: ET3DV6 - SN1604; ConvF(9.20,9.20,9.20); Crest factor: 1.0; Head 150 MHz: $\sigma = 0.75 \text{ mho/m}$, $\epsilon_r = 52.0$, $\rho = 1.00 \text{ g/cm}^3$

Cube 5x5x7: SAR (1g): 1.76 mW/g, SAR (10g): 1.13 mW/g, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0

Powerdrift: -0.03 dB



RELm Wireless RPV599A (EUT 2.5cm facing left face, 22 Deg C, 12/2/02)

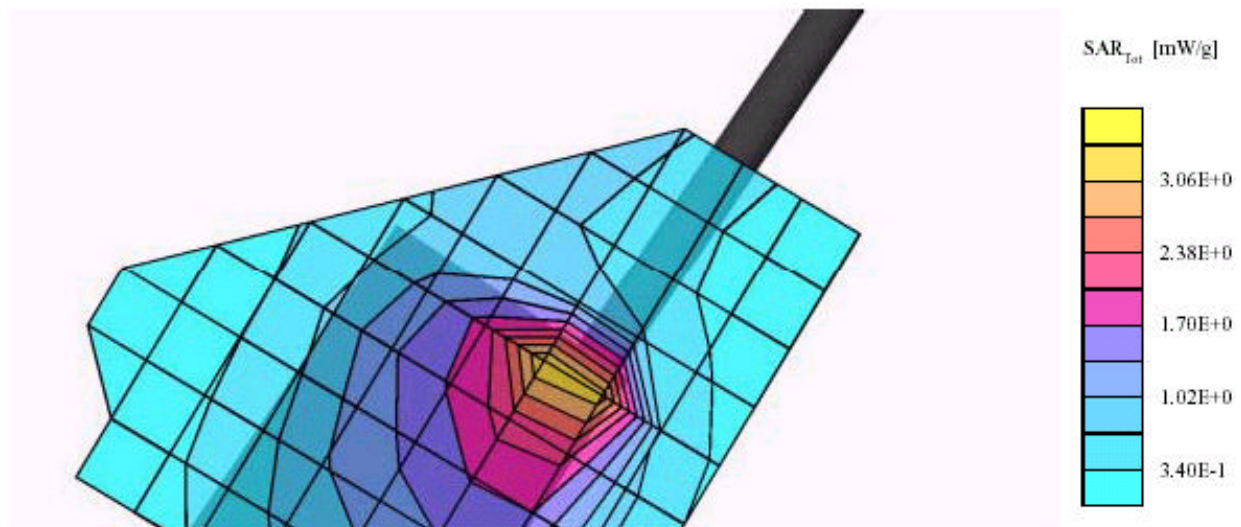
SAM Phantom; Left Hand Section; Position: (87°, 56°); Frequency: 174 MHz

Probe: ET3DV6 - SN1604; ConvF(9.20,9.20,9.20); Crest factor: 1.0; Head 150 MHz: $\sigma = 0.75 \text{ mho/m}$, $\epsilon_r = 52.0$, $\rho = 1.00 \text{ g/cm}^3$

Cube 5x5x7: SAR (1g): 3.63 mW/g, SAR (10g): 1.75 mW/g, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0

Powerdrift: -0.16 dB



RELm Wireless RPV599A (EUT 2.5cm facing right face, 22 Deg C, 12/2/02)

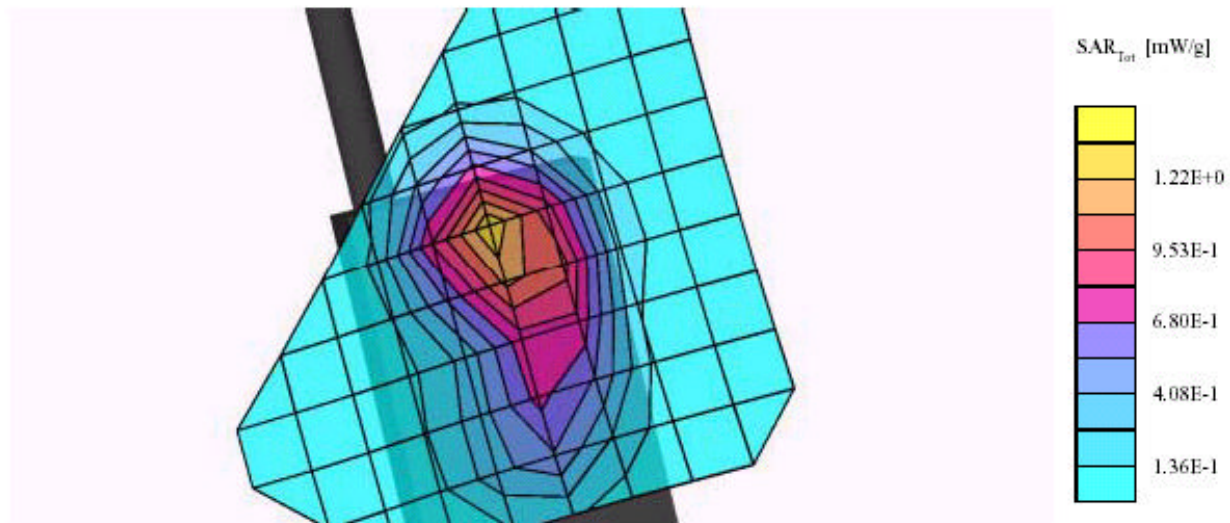
SAM Phantom; Section; Position: (87°, 56°); Frequency: 148 MHz

Probe: ET3DV6 - SN1604; ConvF(9.20,9.20,9.20); Crest factor: 1.0; Head 150 MHz: $\sigma = 0.75 \text{ mho/m}$, $\epsilon_r = 52.0$, $\rho = 1.00 \text{ g/cm}^3$

Cube 5x5x7: SAR (1g): 3.72 mW/g, SAR (10g): 2.17 mW/g, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0

Powerdrift: 0.02 dB



RELm Wireless RPV599A (EUT 2.5cm facing right face, 22 Deg C, 12/2/02)

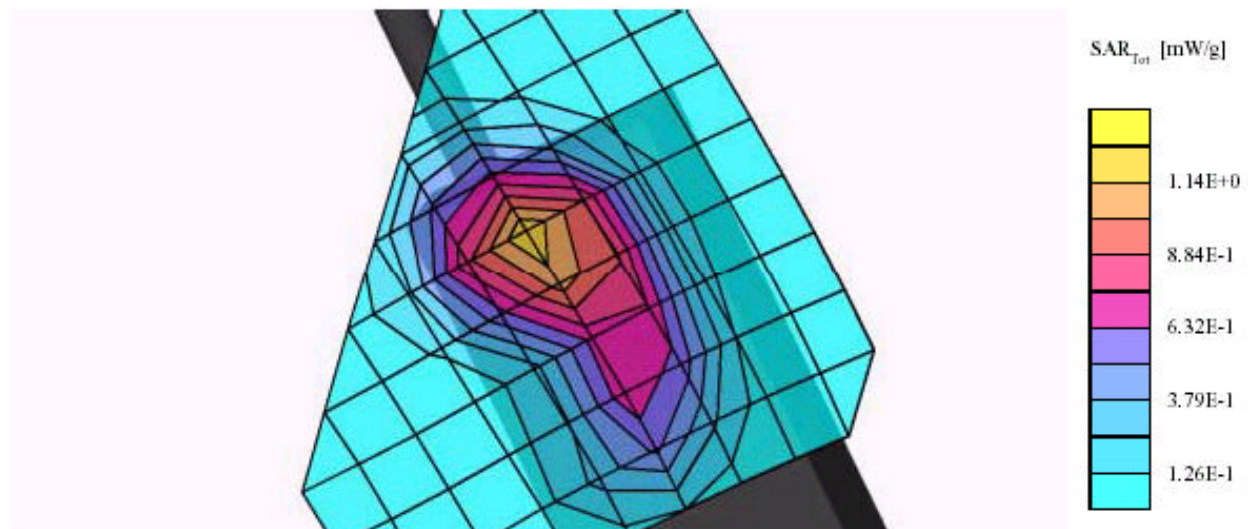
SAM Phantom; Section; Position: (87°, 56°); Frequency: 163 MHz

Probe: ET3DV6 - SN1604; ConvF(9.20,9.20,9.20); Crest factor: 1.0; Head 150 MHz: $\sigma = 0.75 \text{ mho/m}$, $\epsilon_r = 52.0$, $\rho = 1.00 \text{ g/cm}^3$

Cube 5x5x7: SAR (1g): 3.49 mW/g, SAR (10g): 2.07 mW/g, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0

Powerdrift: 0.05 dB



RELm Wireless RPV599A (EUT 2.5cm facing right face, 22 Deg C, 12/2/02)

SAM Phantom; Section; Position: (87°, 56°); Frequency: 174 MHz

Probe: ET3DV6 - SN1604; ConvF(9.20,9.20,9.20); Crest factor: 1.0; Head 150 MHz: $\sigma = 0.75 \text{ mho/m}$, $\epsilon_r = 52.0$, $\rho = 1.00 \text{ g/cm}^3$

Cube 5x5x7: SAR (1g): 3.63 mW/g, SAR (10g): 1.75 mW/g, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0

Powerdrift: -0.16 dB

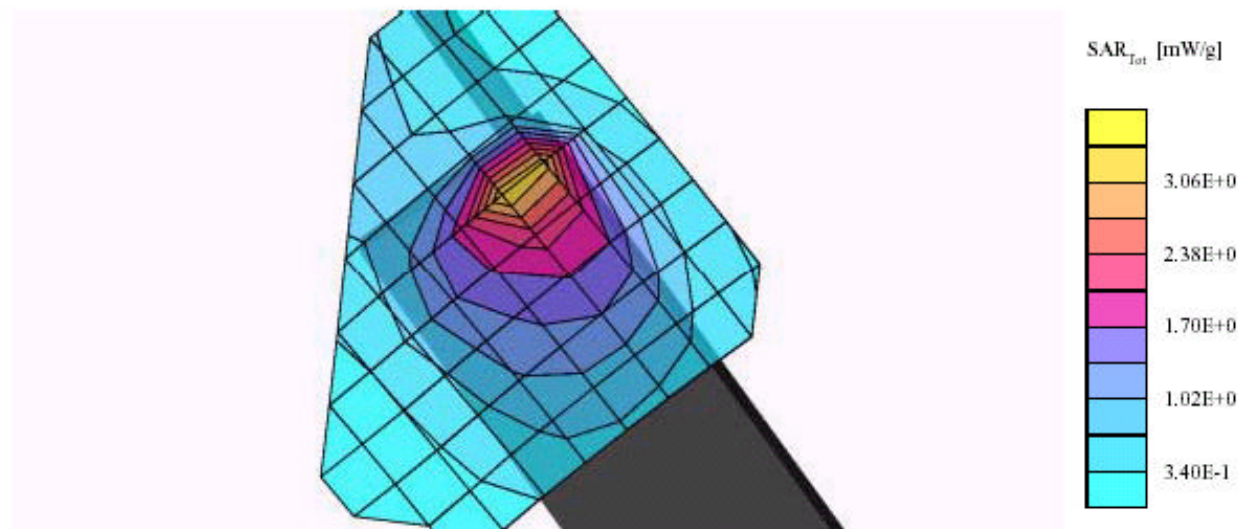
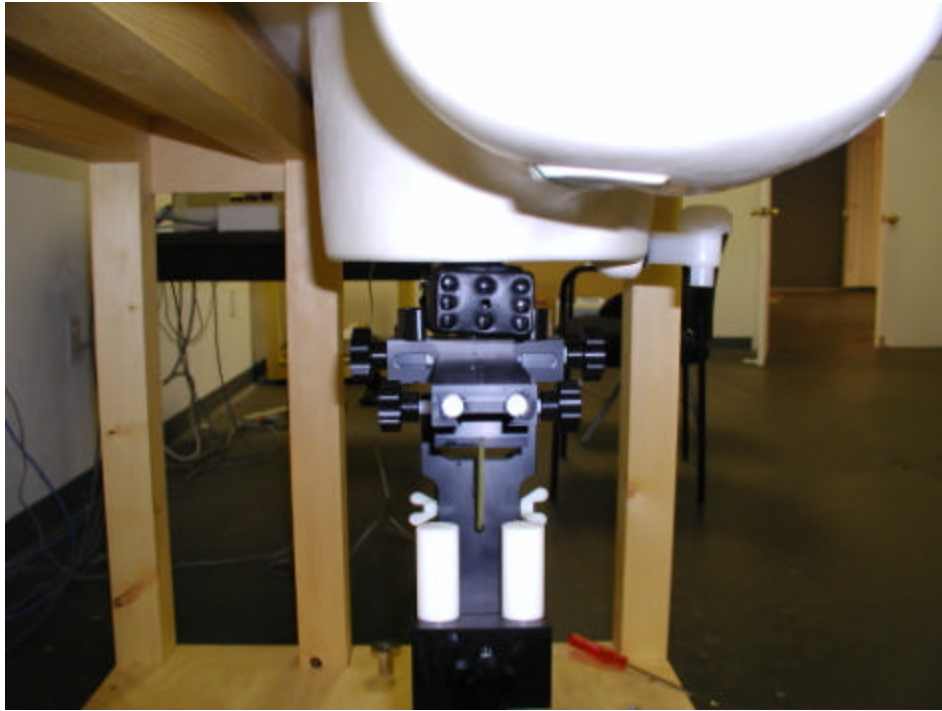


EXHIBIT A - SAR SETUP PHOTOGRAPHS

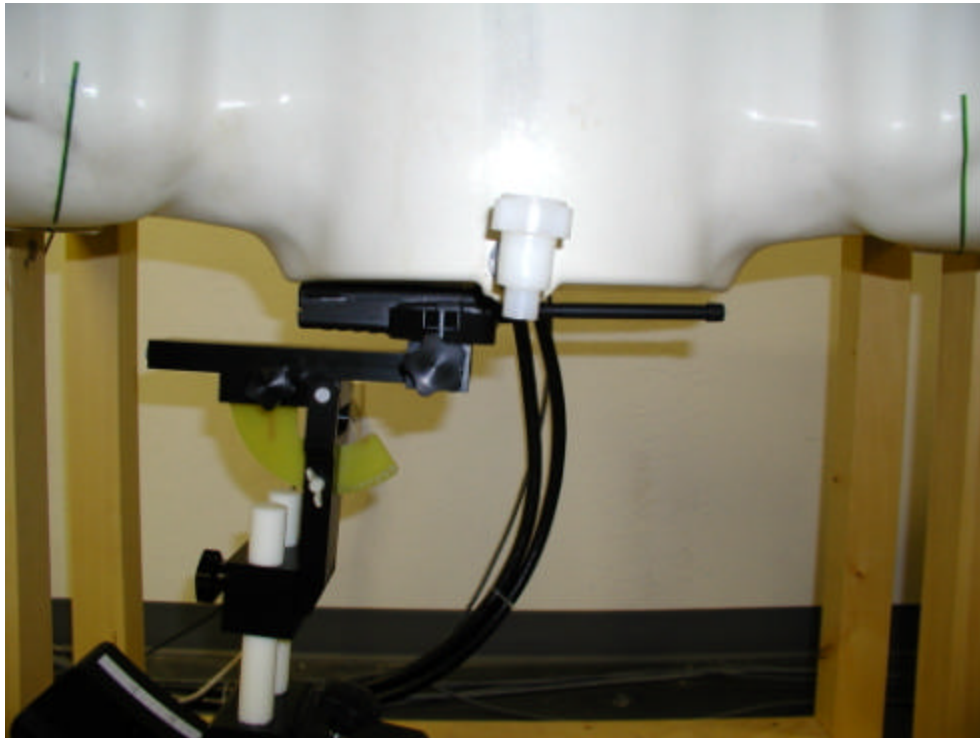
With Accessories - Front/Rear View



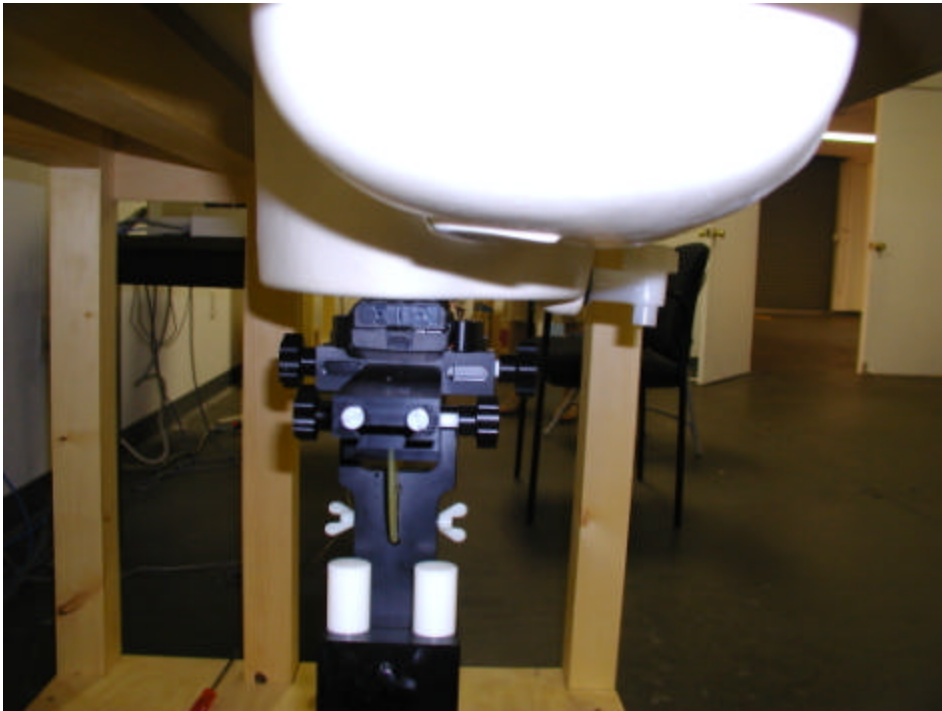
With Accessories - Left/Right View



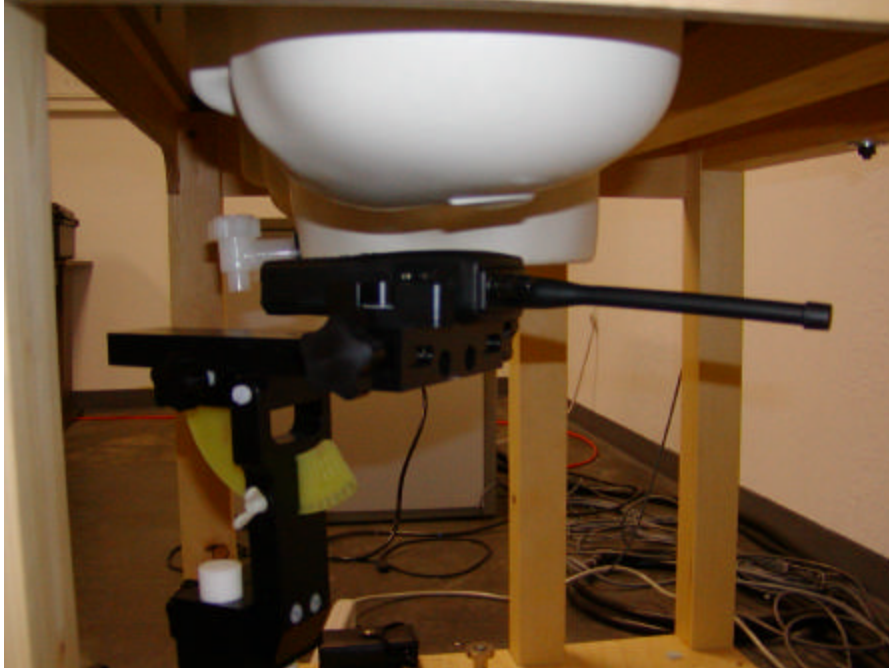
Without Accessories - Front/Rear View



Without Accessories - Left/Right View



SAR Left Setup View



SAR Right Setup View



SAR with Belt Clip Setup View



SAR without Belt Clip Setup View



2.5cm Separation Close View



EXHIBIT B - EUT PHOTOGRAPHS

Chassis - Front View



Chassis - Back View

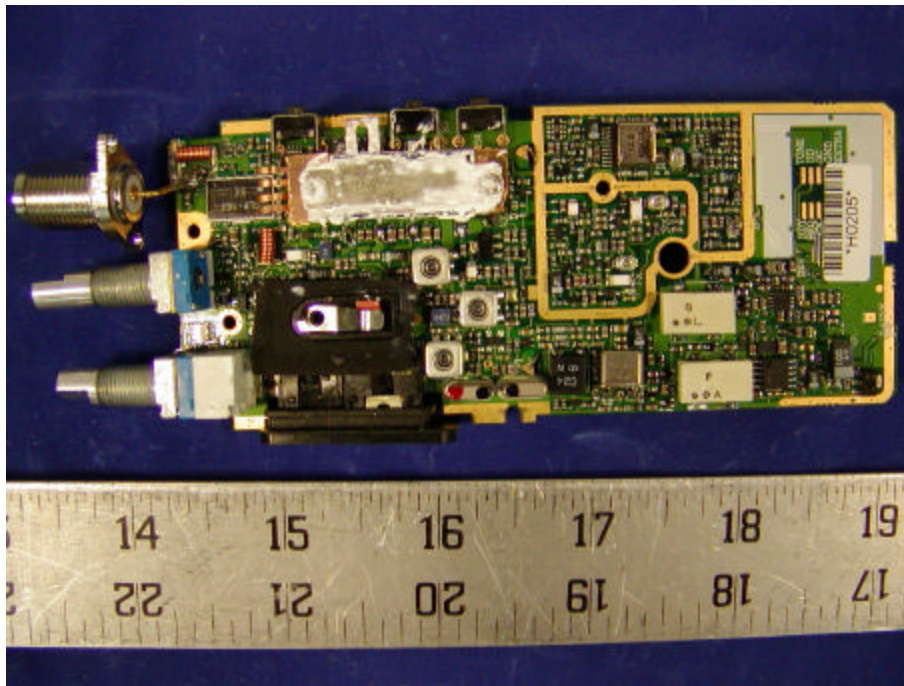
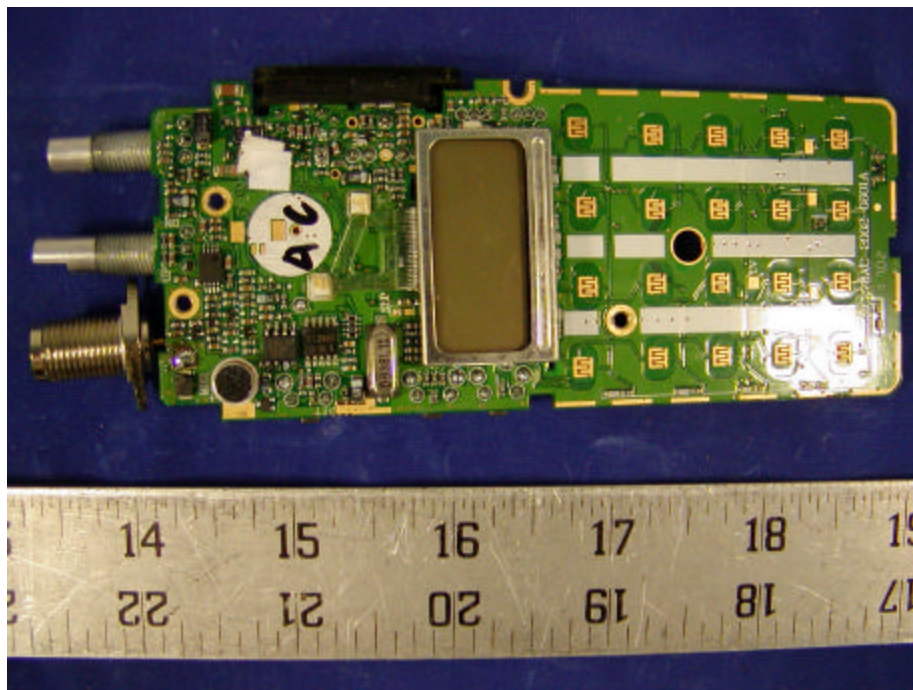


Chassis - Top View

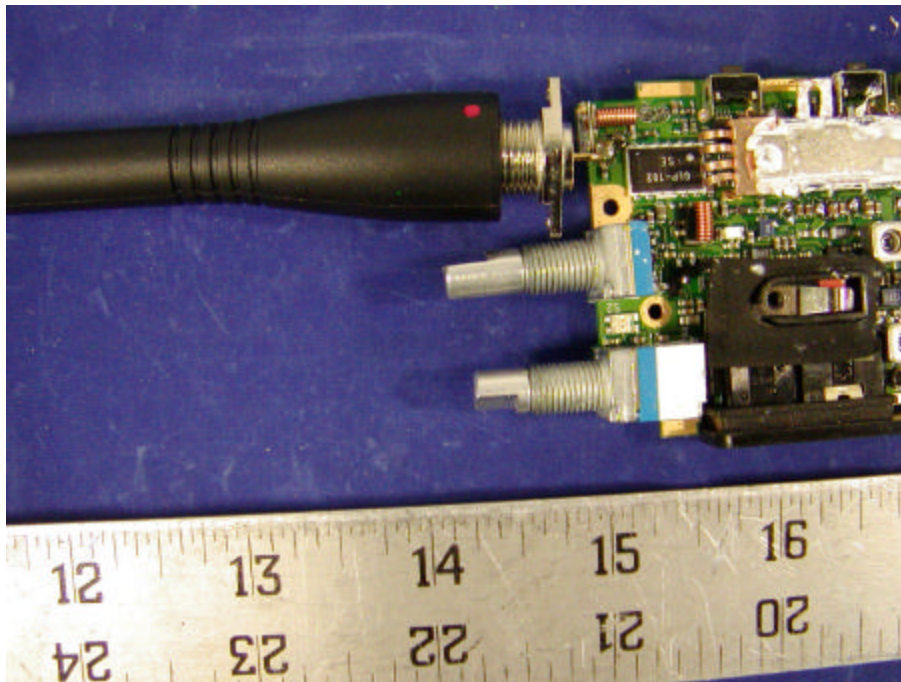


Chassis - Side View

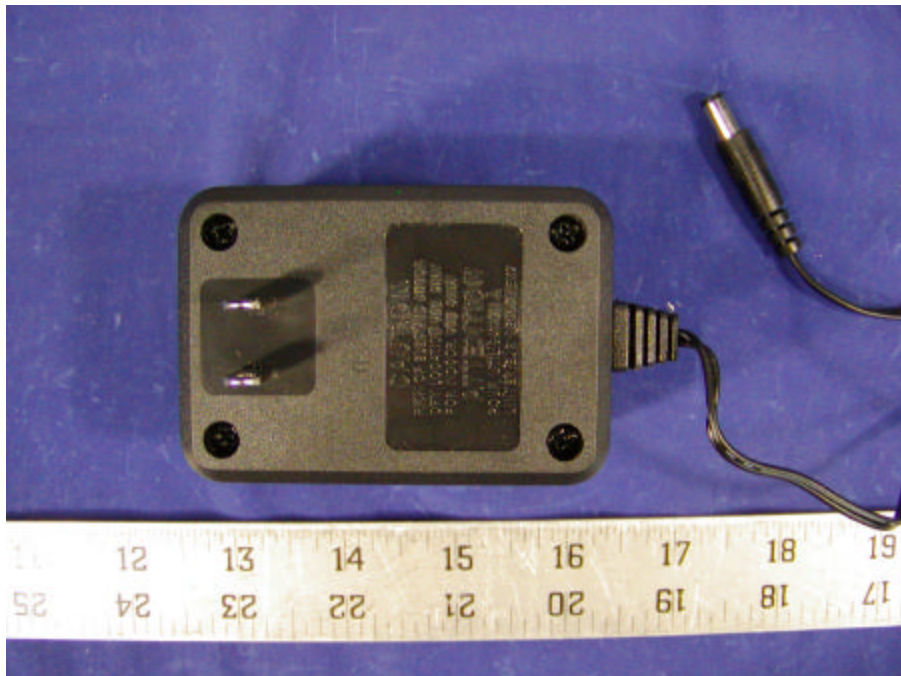


Main Board - Component View**Main Board - Solder View**

Antenna Attachment



Power Adapter

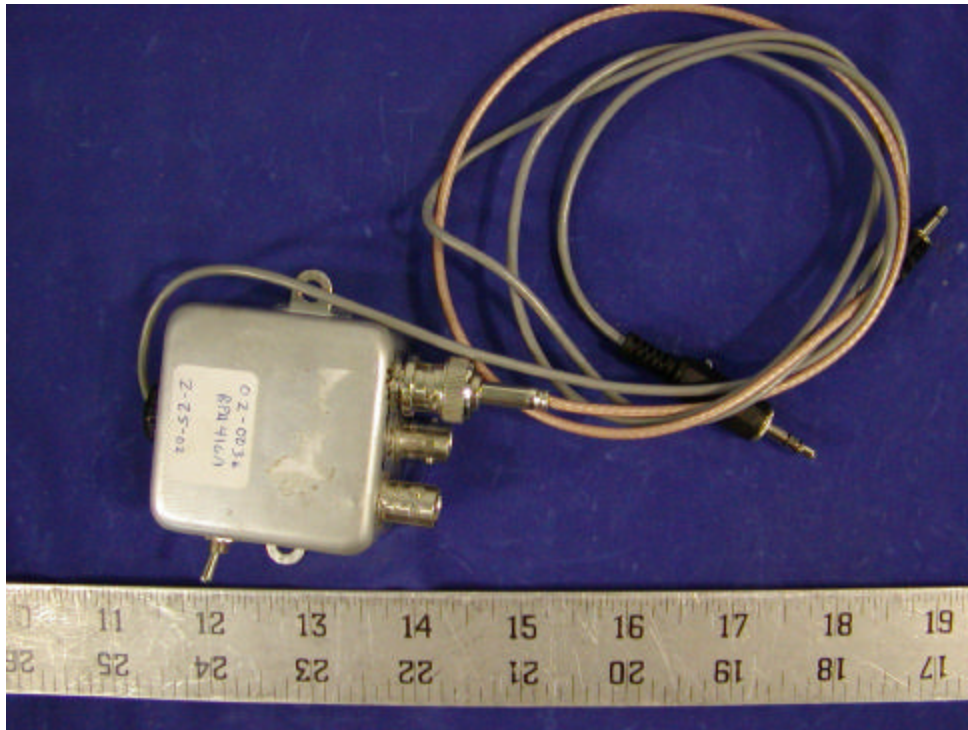
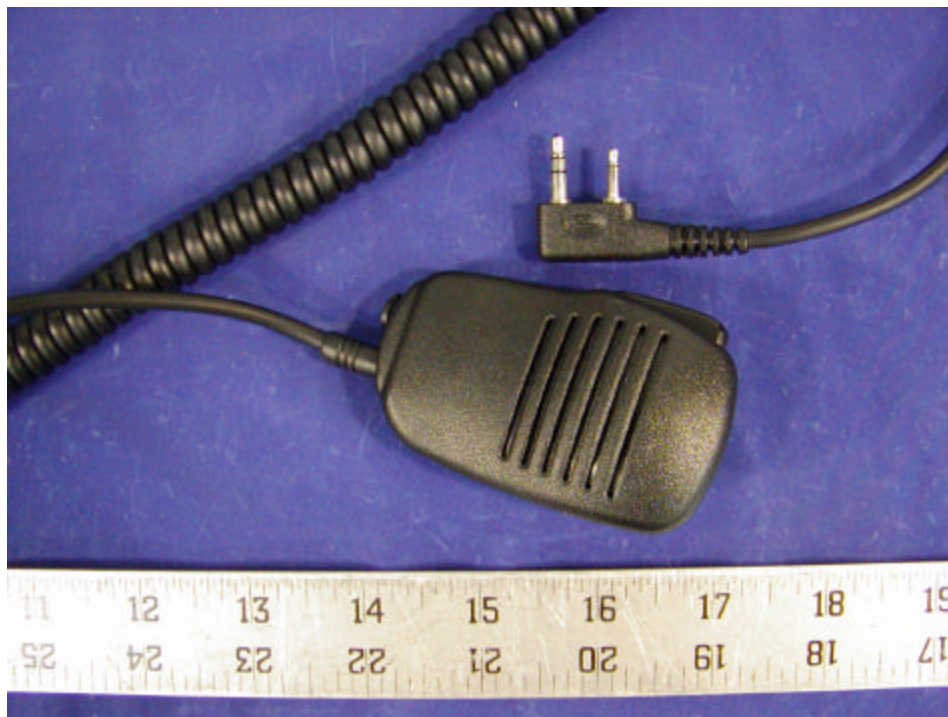


Charger Top View



Charger Bottom View



Radio Interface Box**Speaker**

EUT – Front View / Antenna Hotspot Area

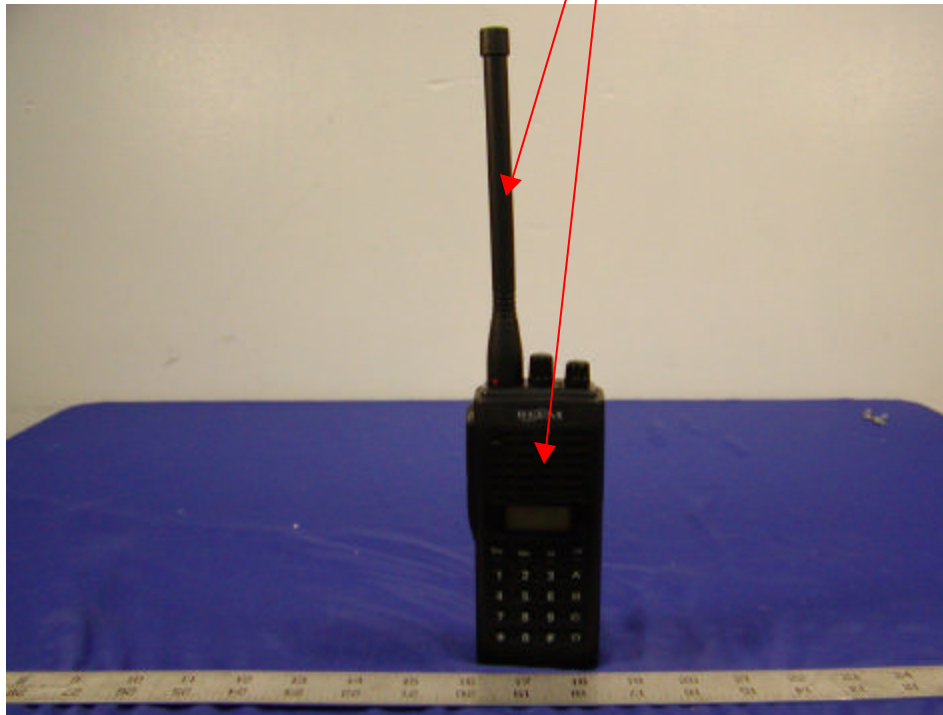


EXHIBIT C – Z-Axis

RELm Wireless RPV599A (EUT 2.5cm facing left face, 22 Deg C, 12/2/02)

SAM Phantom; Section; Position: ; Frequency: 148 MHz

Probe: ET3DV6 - SN1604; ConvF(9.20,9.20,9.20); Crest factor: 1.0; Head 150 MHz: $\sigma = 0.75 \text{ mho/m}$ $\epsilon_r = 52.0$ $\rho = 1.00 \text{ g/cm}^3$

: , 0

Z-Axis: Dx = 0.0, Dy = 0.0, Dz = 2.0

