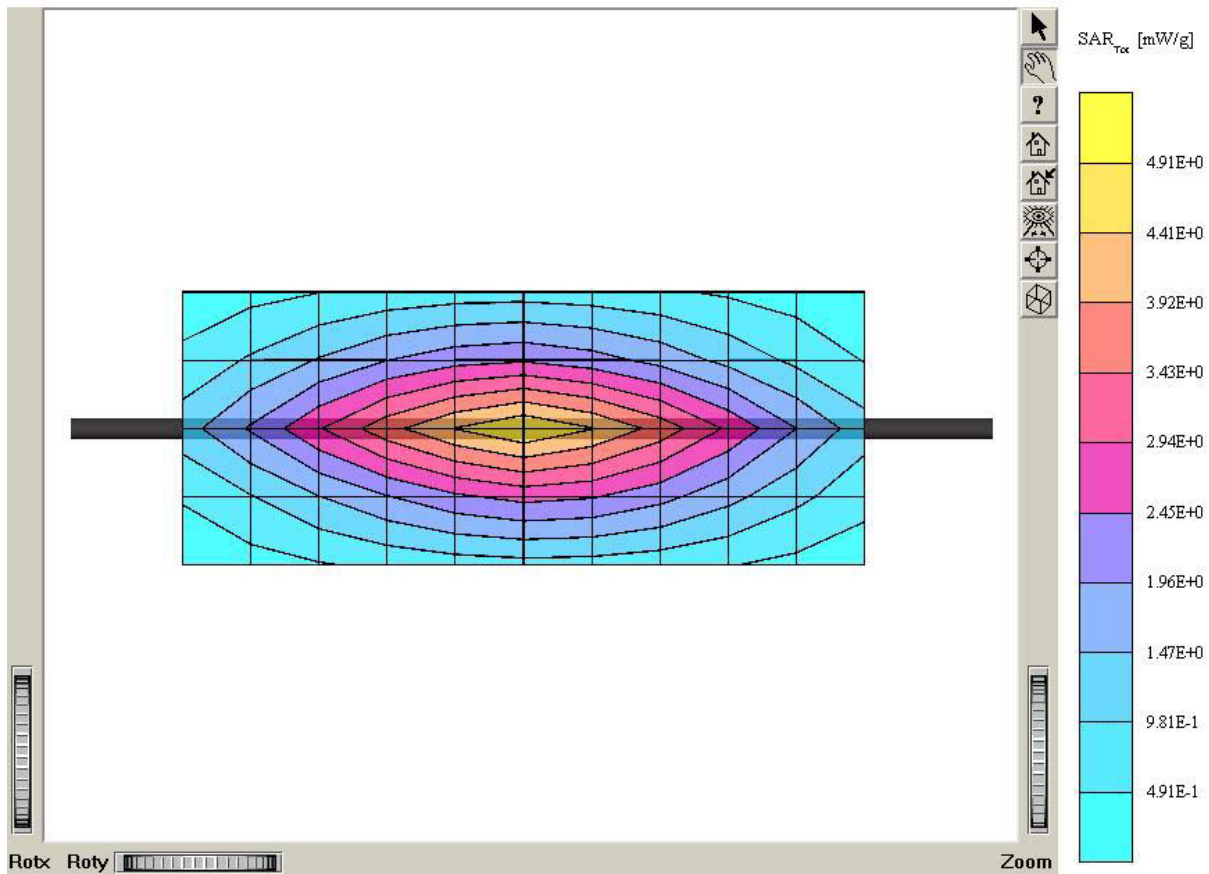


APPENDIX D – DIPOLE VALIDATION PLOTS

Dipole 450 MHz

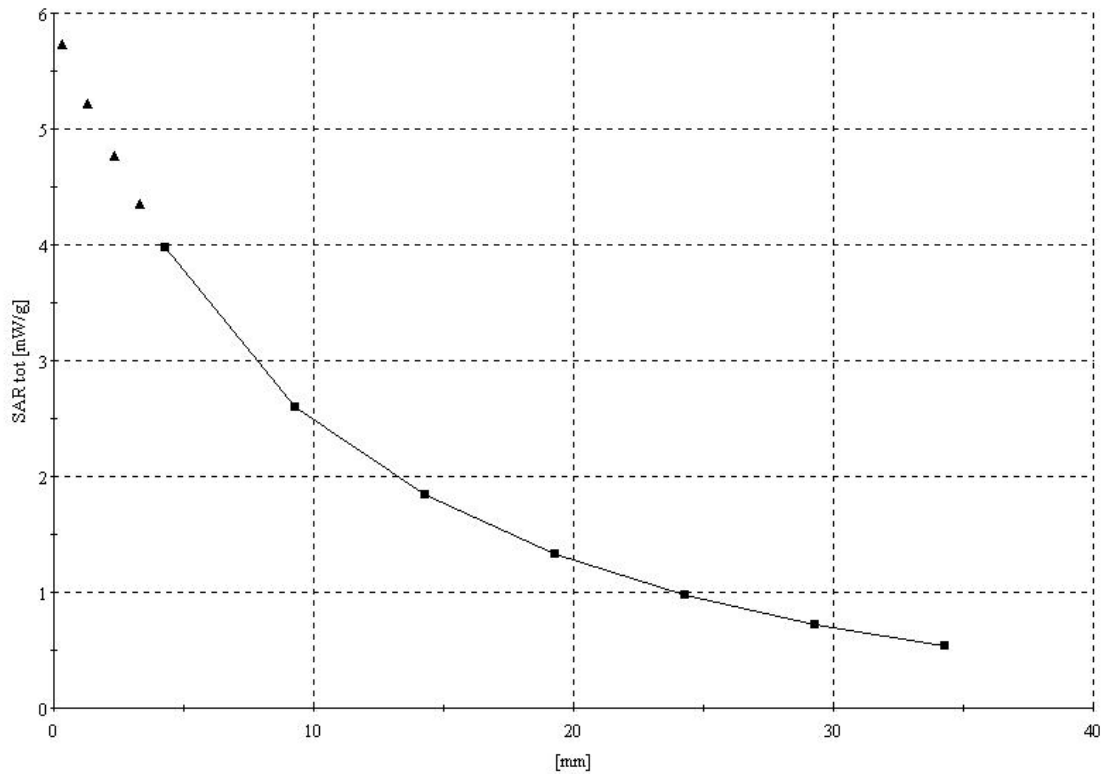
SAM II Phantom: Flat Section; Position: (90°,90°); Frequency: 450 MHz
 Probe: ET3DV6 - SN1609; ConvF(7.40,7.40,7.40); Crest factor: 1.0; Body 450 MHz: $s = 0.86 \text{ mho/m}$, $\epsilon_r = 45.1$, $\rho = 1.00 \text{ g/cm}^3$
 Cubes (2): SAR (1g): $4.68 \text{ mW/g} \pm 0.10 \text{ dB}$, SAR (10g): $3.02 \text{ mW/g} \pm 0.11 \text{ dB}$
 Coarse: $D_x = 20.0$, $D_y = 20.0$, $D_z = 10.0$
 : Powerdrift: 0.04 dB
 Comment:
 Dipole Validation (D450V2/ S.N: 1007)
 450MHz Brain
 Antenna Input Power: 30dBm (1 W)
 HCT Co., Ltd. Brain Tissue Simulating Liquid
 Liquid Temperature: 21.7 °C
 Date Tested: December 23, 2002



Dipole 450 MHz

SAM II Phantom: Flat Section; Position: (90° 90°); Frequency: 450 MHz
 Probe: ET3DV6 - SN1609; ConvF(7.40,7.40,7.40); Crest factor: 1.0; Body 450 MHz: $s = 0.86 \text{ mho/m}$, $\epsilon_r = 45.1$, $\rho = 1.00 \text{ g/cm}^3$
 Cubes (2): SAR (1g): $4.68 \text{ mW/g} \pm 0.10 \text{ dB}$, SAR (10g): $3.02 \text{ mW/g} \pm 0.11 \text{ dB}$
 Cube 5x5x7: $D_x = 8.0$, $D_y = 8.0$, $D_z = 5.0$

Comment:
 Dipole Validation (D450V2/ S.N: 1007)
 450MHz Brain
 Antenna Input Power: 30dBm (1 W)
 HCT Co., Ltd. Brain Tissue Simulating Liquid
 Liquid Temperature: 21.7 °C
 Date Tested: December 23, 2002



Title: GMRS-122**SubTitle: 450MHz Brain**

December 23, 2002 08:35 AM

Frequency	e'	e''
400.000000 MHz	46.2555	36.6686
405.000000 MHz	46.2441	36.5046
410.000000 MHz	46.1455	36.1629
415.000000 MHz	46.0323	36.1145
420.000000 MHz	45.8313	35.7310
425.000000 MHz	45.7558	35.4958
430.000000 MHz	45.6634	35.2684
435.000000 MHz	45.5419	35.0895
440.000000 MHz	45.2929	34.9351
445.000000 MHz	45.2668	34.5977
450.000000 MHz	45.1128	34.4005
455.000000 MHz	45.0744	34.2077
460.000000 MHz	44.9478	34.0332
465.000000 MHz	44.8836	33.7795
470.000000 MHz	44.6647	33.6199
475.000000 MHz	44.5955	33.3678
480.000000 MHz	44.4810	33.2080
485.000000 MHz	44.3976	33.0113
490.000000 MHz	44.2936	32.7874
495.000000 MHz	44.1594	32.6764
500.000000 MHz	43.9751	32.4576

Title: GMRS-122**SubTitle: 450MHz Body**

December 23, 2002 10:26 AM

Frequency	e'	e''
400.000000 MHz	57.2533	40.6949
405.000000 MHz	57.1424	40.3361
410.000000 MHz	57.0266	39.9969
415.000000 MHz	56.8980	39.6887
420.000000 MHz	56.7417	39.3827
425.000000 MHz	56.7261	39.0570
430.000000 MHz	56.5841	38.8022
435.000000 MHz	56.3810	38.6246
440.000000 MHz	56.2595	38.2399
445.000000 MHz	56.2191	37.9636
450.000000 MHz	56.0954	37.7478
455.000000 MHz	56.0080	37.5104
460.000000 MHz	55.9413	37.2737
465.000000 MHz	55.7879	37.1526
470.000000 MHz	55.7671	36.8963
475.000000 MHz	55.6525	36.6277
480.000000 MHz	55.5531	36.3794
485.000000 MHz	55.5052	36.1967
490.000000 MHz	55.4954	35.9381
495.000000 MHz	55.4542	35.7786
500.000000 MHz	55.3834	35.5586