

APPENDIX D – DIPOLE VALIDATION PLOTS

Dipole 450 MHz

SAM I Phantom; Flat Section; Position: (90°,90°); Frequency: 450 MHz

Probe: ET3DV6 - SN1609; ConvF(7.69,7.69,7.69); Crest factor: 1.0; Brain 450 MHz: $s = 0.86$ $\rho/m_e = 43.8$ $r = 1.00$ g/cm³Cubes (2): SAR (1g): 4.62 mW/g ± 0.01 dB, SAR (10g): 3.08 mW/g ± 0.00 dB

Coarse: Dx = 20.0, Dy = 20.0, Dz = 10.0

Powerdrift: 0.03 dB

Comment:

Dipole Validation (D450V2/ S.N: 1007)

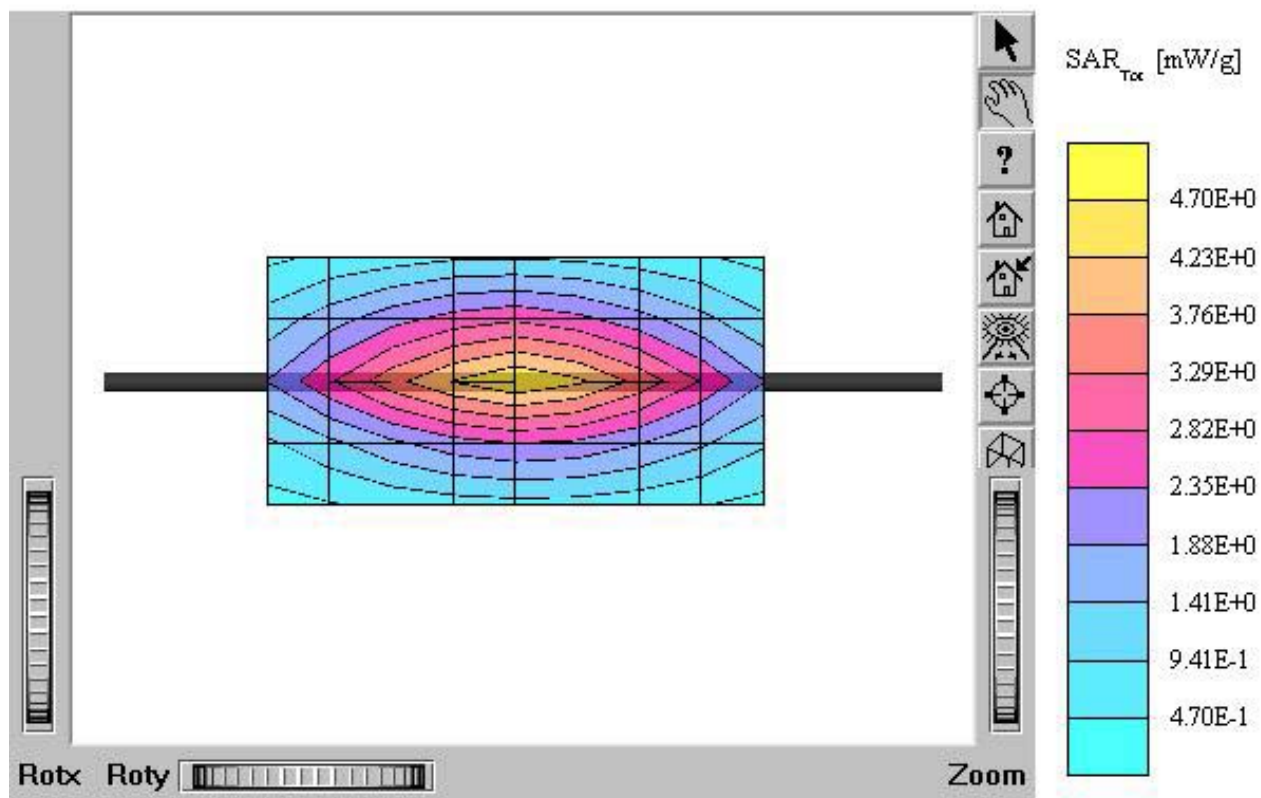
450MHz Brain

Antenna Input Power: 30dBm (1 W)

HCT Co., Ltd. Brain Tissue Simulating Liquid

Liquid Temperature : 21.5 °C

Date Tested : January 19, 2005



Dipole 450 MHz

SAM I Phantom; Flat Section; Position: (90°,90°); Frequency: 450 MHz

Probe: ET3DV6 - SN1609; ConvF(7.69,7.69,7.69); Crest factor: 1.0; Brain 450 MHz: $s = 0.86$ $\rho = 43.8 \text{ g/cm}^3$ Cubes (2): SAR (1g): $4.62 \text{ mW/g} \pm 0.01 \text{ dB}$, SAR (10g): $3.08 \text{ mW/g} \pm 0.00 \text{ dB}$ Cube 5x5x7: $D_x = 8.0$, $D_y = 8.0$, $D_z = 5.0$

Comment:

Dipole Validation (D450V2/ S.N: 1007)

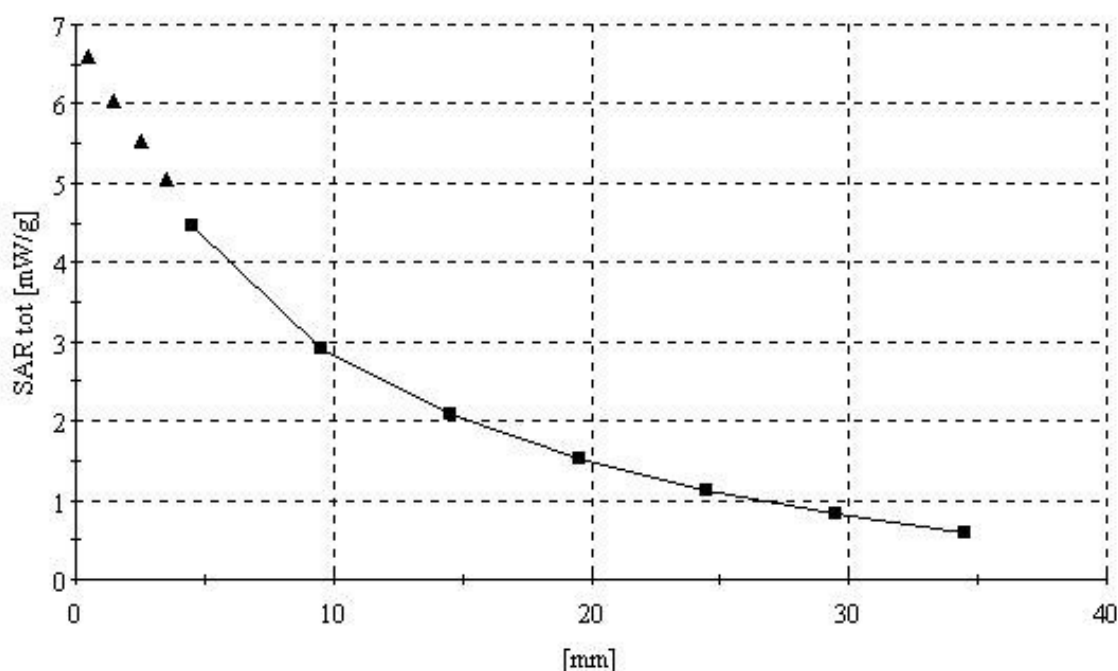
450MHz Brain

Antenna Input Power: 30dBm (1 W)

HCT Co., Ltd. Brain Tissue Simulating Liquid

Liquid Temperature : 21.5 °C

Date Tested : January 19, 2005



Title : GXT-500

SubTitle : 450MHz Brain

January 19, 2005 09:05 AM

Frequency	e'	e''
400.000000 MHz	45.0934	36.7330
405.000000 MHz	45.0578	36.5964
410.000000 MHz	44.8756	36.1470
415.000000 MHz	44.7614	36.0016
420.000000 MHz	44.5615	35.6629
425.000000 MHz	44.5221	35.4467
430.000000 MHz	44.3313	35.2582
435.000000 MHz	44.1586	35.0331
440.000000 MHz	44.0420	34.6518
445.000000 MHz	44.0053	34.5316
450.000000 MHz	43.8741	34.2787
455.000000 MHz	43.8073	34.2998
460.000000 MHz	43.6792	34.0364
465.000000 MHz	43.6069	33.8789
470.000000 MHz	43.5218	33.7990
475.000000 MHz	43.5612	33.5934
480.000000 MHz	43.5115	33.4414
485.000000 MHz	43.3782	33.3063
490.000000 MHz	43.4422	33.0890
495.000000 MHz	43.3855	32.8784
500.000000 MHz	43.4611	32.8366

Title : GXT-500

SubTitle : 450MHz Body

January 19, 2005 02:20 PM

Frequency	e'	e''
400.000000 MHz	55.7160	40.3303
405.000000 MHz	55.6889	40.1142
410.000000 MHz	55.5493	39.6729
415.000000 MHz	55.4895	39.4334
420.000000 MHz	55.4881	39.0050
425.000000 MHz	55.4102	38.8212
430.000000 MHz	55.2435	38.5784
435.000000 MHz	55.0969	38.3180
440.000000 MHz	54.9890	37.9389
445.000000 MHz	55.0059	37.6984
450.000000 MHz	54.9903	37.3919
455.000000 MHz	54.9135	37.2550
460.000000 MHz	54.8934	37.0157
465.000000 MHz	54.8730	36.8644
470.000000 MHz	54.7037	36.7462
475.000000 MHz	54.5083	36.4813
480.000000 MHz	54.5202	36.1976
485.000000 MHz	54.4031	36.0709
490.000000 MHz	54.3187	35.8336
495.000000 MHz	54.1707	35.4562
500.000000 MHz	54.3884	35.2341

Dipole 450 MHz

SAM I Phantom; Flat Section; Position: (90°,90°); Frequency: 450 MHz

Probe: ET3DV6 - SN1609; ConvF(7.69,7.69,7.69); Crest factor: 1.0; Brain 450 MHz: $\sigma = 0.86 \text{ mho/m}$ $\epsilon_r = 43.9$

$\rho = 1.00 \text{ g/cm}^3$

Cube 5x5x7: SAR (1g): 4.40 mW/g, SAR (10g): 2.90 mW/g, (Worst-case extrapolation)

Coarse: Dx = 20.0, Dy = 20.0, Dz = 10.0

Peak: 6.90 mW/g; Powerdrift: -0.03 dB

Comment :

Dipole Validation (D450V2/ S.N: 1007)

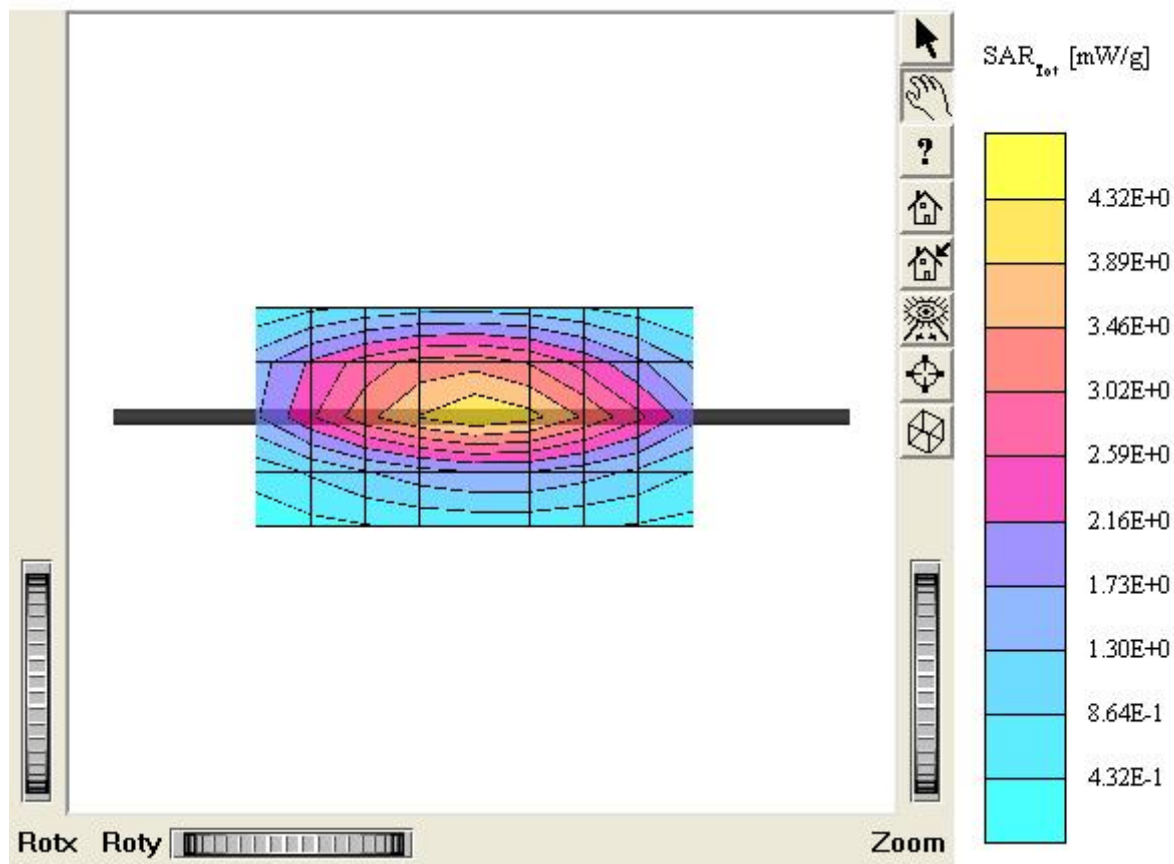
450MHz Brain

Antenna Input Power: 30dBm (1 W)

HCT Co., Ltd. Brain Tissue Simulating Liquid

Liquid Temperature : 21.5 °C

Date Tested : February 15, 2005



Title : GXT-500
SubTitle : 450MHz Brain
February 15, 2005 09:25 AM

Frequency	e'	e''
400.000000 MHz	45.0670	36.6950
405.000000 MHz	44.9360	36.4693
410.000000 MHz	44.9912	36.0994
415.000000 MHz	44.6875	35.9115
420.000000 MHz	44.5644	35.6824
425.000000 MHz	44.4969	35.4109
430.000000 MHz	44.3285	35.2390
435.000000 MHz	44.0772	35.0068
440.000000 MHz	43.9859	34.6604
445.000000 MHz	43.9938	34.4576
450.000000 MHz	43.8867	34.2393
455.000000 MHz	43.8472	34.2006
460.000000 MHz	43.7359	34.0457
465.000000 MHz	43.6189	33.8406
470.000000 MHz	43.4529	33.8192
475.000000 MHz	43.5641	33.6107
480.000000 MHz	43.5230	33.4041
485.000000 MHz	43.3981	33.3205
490.000000 MHz	43.4900	33.0635
495.000000 MHz	43.4104	32.8225
500.000000 MHz	43.4303	32.7566