

APPENDIX D – DIPOLE VALIDATION PLOTS

Dipole 450 MHz

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

Probe: ET3DV6 - SN1798; ConvF(7.50,7.50,7.50); Crest factor: 1.0; Brain 450 MHz: $\sigma = 0.84$ mho/m $\epsilon_r = 43.0$ $\rho = 1.00$ g/cm³Cubes (2): SAR (1g): 5.08 mW/g ± 0.01 dB, SAR (10g): 3.51 mW/g ± 0.01 dB

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

Powerdrift: -0.01 dB

Comment:

Dipole Validation (D450V2/ S.N: 1007)

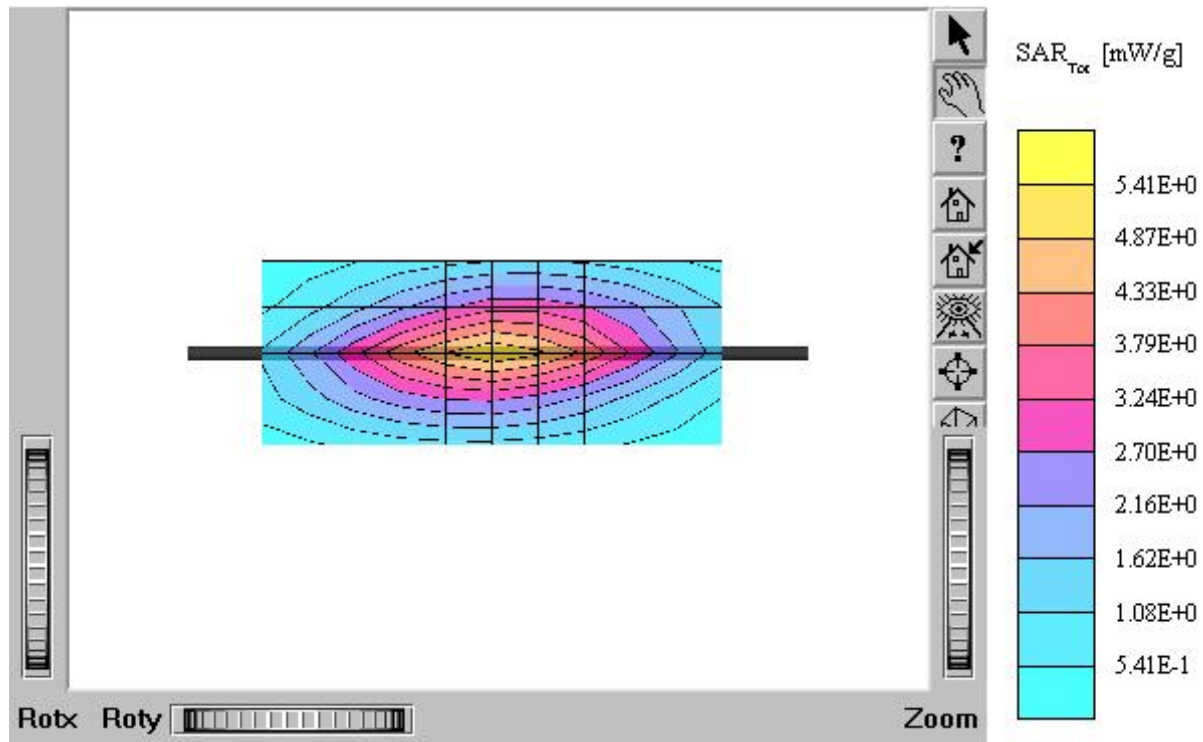
450MHz Brain

Antenna Input Power: 30dBm (1 W)

HCT Co., Ltd. Brain Tissue Simulating Liquid

Liquid Temperature : 21.1 °C

Date Tested : January 29, 2004



Dipole 450 MHz

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

Probe: ET3DV6 - SN1798; ConvF(7.50,7.50,7.50); Crest factor: 1.0; Brain 450 MHz: $\sigma = 0.84$

mho/m $\epsilon_r = 43.0$ $\rho = 1.00$ g/cm³

Cubes (2): SAR (1g): 5.08 mW/g ± 0.01 dB, SAR (10g): 3.51 mW/g ± 0.01 dB

Cube 5x5x7: Dx = 8.0, Dy = 8.0, Dz = 5.0

Comment:

Dipole Validation (D450V2/ S.N: 1007)

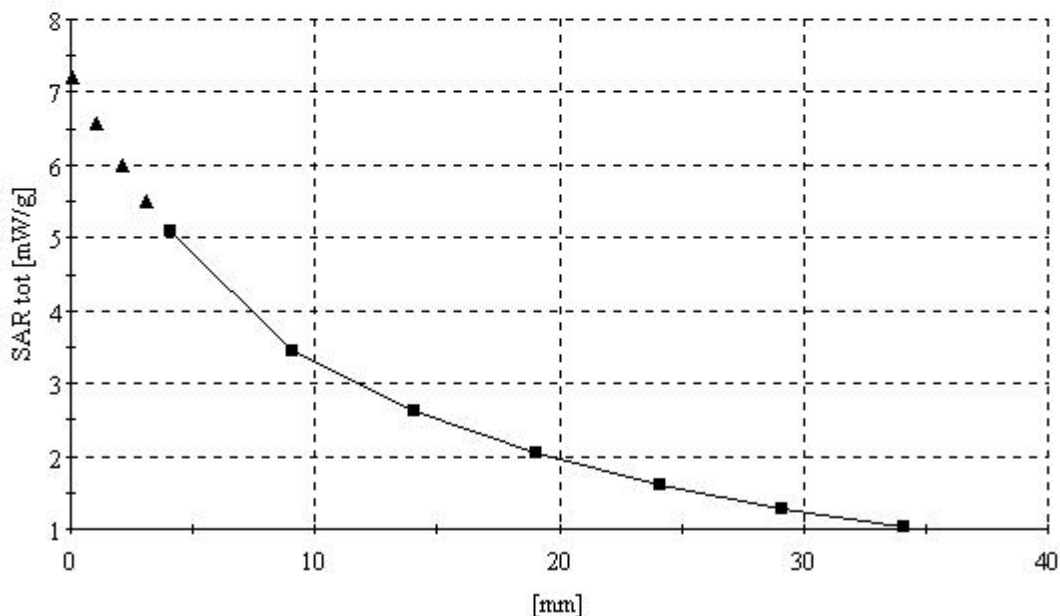
450MHz Brain

Antenna Input Power: 30dBm (1 W)

HCT Co., Ltd. Brain Tissue Simulating Liquid

Liquid Temperature : 21.1 °C

Date Tested : January 29, 2004



Title : GXT-400

SubTitle : 450 MHz Brain

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Frequency	e'	e''
400.000000 MHz	44.3454	35.8791
405.000000 MHz	44.3053	35.6724
410.000000 MHz	44.1226	35.2466
415.000000 MHz	44.0774	35.0528
420.000000 MHz	43.9268	34.8788
425.000000 MHz	43.8731	34.5373
430.000000 MHz	43.7132	34.3946
435.000000 MHz	43.6782	34.1596
440.000000 MHz	43.4953	33.9521
445.000000 MHz	43.3170	33.7491
450.000000 MHz	43.0405	33.4914
455.000000 MHz	43.0511	33.3806
460.000000 MHz	42.9270	33.1098
465.000000 MHz	42.8637	32.9802
470.000000 MHz	42.7487	32.7988
475.000000 MHz	42.6193	32.6237
480.000000 MHz	42.4543	32.4847
485.000000 MHz	42.3642	32.2496
490.000000 MHz	42.3798	32.1228
495.000000 MHz	42.2541	31.9702
500.000000 MHz	42.1065	31.7736

Title : GXT-400

SubTitle : 450 MHz Body

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Frequency	e'	e''
400.000000 MHz	55.4999	39.7085
405.000000 MHz	55.4151	39.4053
410.000000 MHz	55.4630	39.1370
415.000000 MHz	55.3081	38.8901
420.000000 MHz	55.1829	38.6744
425.000000 MHz	55.1881	38.2785
430.000000 MHz	55.0819	37.9313
435.000000 MHz	55.0835	37.7289
440.000000 MHz	54.9509	37.5364
445.000000 MHz	54.7926	37.2954
450.000000 MHz	54.7008	37.0853
455.000000 MHz	54.5719	36.8679
460.000000 MHz	54.4210	36.8097
465.000000 MHz	54.4046	36.5686
470.000000 MHz	54.1984	36.2966
475.000000 MHz	54.1143	36.0697
480.000000 MHz	53.9216	35.8336
485.000000 MHz	53.8360	35.5806
490.000000 MHz	53.8000	35.3045
495.000000 MHz	53.7722	35.0666
500.000000 MHz	53.7300	34.9227