

APPENDIX D – DIPOLE VALIDATION PLOTS

Dipole 450 MHz

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

Probe: ET3DV6 - SN1798; ConvF(7.72,7.72,7.72); Crest factor: 1.0; Head 450 MHz: $\sigma = 0.84 \text{ mho/m}$ $\epsilon_r = 45.5$ $\rho = 1.00 \text{ g/cm}^3$

Cubes (2): SAR (1g): $4.87 \text{ mW/g} \pm 0.01 \text{ dB}$, SAR (10g): $3.13 \text{ mW/g} \pm 0.01 \text{ dB}$

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

Powerdrift: -0.04 dB

Comment :

Dipole Validation (D450V2/ S.N: 1007)

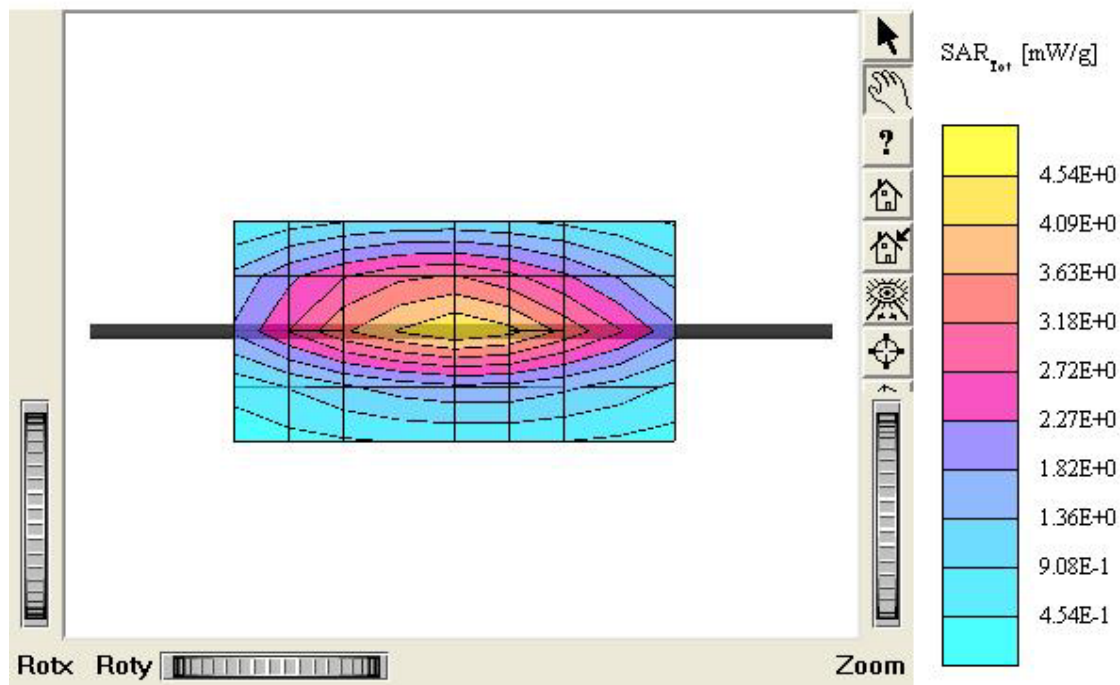
450MHz Brain

Antenna Input Power: 30dBm (1 W)

HCT Co., Ltd. Brain Tissue Simulating Liquid

Liquid Temperature : 21.9 °C

Date Tested : February 14, 2006



Title : GXT650**SubTitle : 450MHz Head**

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Frequency	e'	e''
400.000000 MHz	47.0990	36.7107
405.000000 MHz	46.8016	36.3589
410.000000 MHz	46.7031	35.9966
415.000000 MHz	46.5587	35.5891
420.000000 MHz	46.2279	35.1903
425.000000 MHz	46.1158	34.8863
430.000000 MHz	45.9745	34.6329
435.000000 MHz	45.7584	34.3781
440.000000 MHz	45.6565	34.0922
445.000000 MHz	45.6150	33.9354
450.000000 MHz	45.5382	33.9000
455.000000 MHz	45.4280	33.8711
460.000000 MHz	45.3779	33.7414
465.000000 MHz	45.3858	33.7322
470.000000 MHz	45.3128	33.6644
475.000000 MHz	45.2855	33.5367
480.000000 MHz	45.2340	33.4688
485.000000 MHz	45.1214	33.3427
490.000000 MHz	45.0594	33.1931
495.000000 MHz	44.9481	32.9516
500.000000 MHz	45.0646	32.8282

Title : GXT650

SubTitle : 450MHz Body

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Frequency	e'	e''
400.000000 MHz	55.1419	38.8796
405.000000 MHz	55.0932	38.5388
410.000000 MHz	54.9376	38.2350
415.000000 MHz	54.7467	37.9449
420.000000 MHz	54.6991	37.5852
425.000000 MHz	54.4928	37.3426
430.000000 MHz	54.4083	36.9844
435.000000 MHz	54.4637	36.8431
440.000000 MHz	54.3253	36.6046
445.000000 MHz	54.2429	36.3416
450.000000 MHz	54.1403	36.1641
455.000000 MHz	53.9036	35.8658
460.000000 MHz	53.9770	35.7003
465.000000 MHz	53.7834	35.4514
470.000000 MHz	53.7440	35.2232
475.000000 MHz	53.6084	35.0096
480.000000 MHz	53.4400	34.7982
485.000000 MHz	53.4361	34.5933
490.000000 MHz	53.3078	34.3824
495.000000 MHz	53.3093	34.1137
500.000000 MHz	53.2861	33.9758