

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; Brain 450 MHz: $\sigma = 0.87 \text{ mho/m}$ $\epsilon_r = 43.7$ $\rho = 1.00 \text{ g/cm}^3$

Cubes (2): SAR (1g): $4.93 \text{ mW/g} \pm 0.01 \text{ dB}$, SAR (10g): $3.17 \text{ mW/g} \pm 0.01 \text{ dB}$

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

Powerdrift: -0.04 dB

Comment :

Dipole Validation (D450V2/ S.N: 1007)

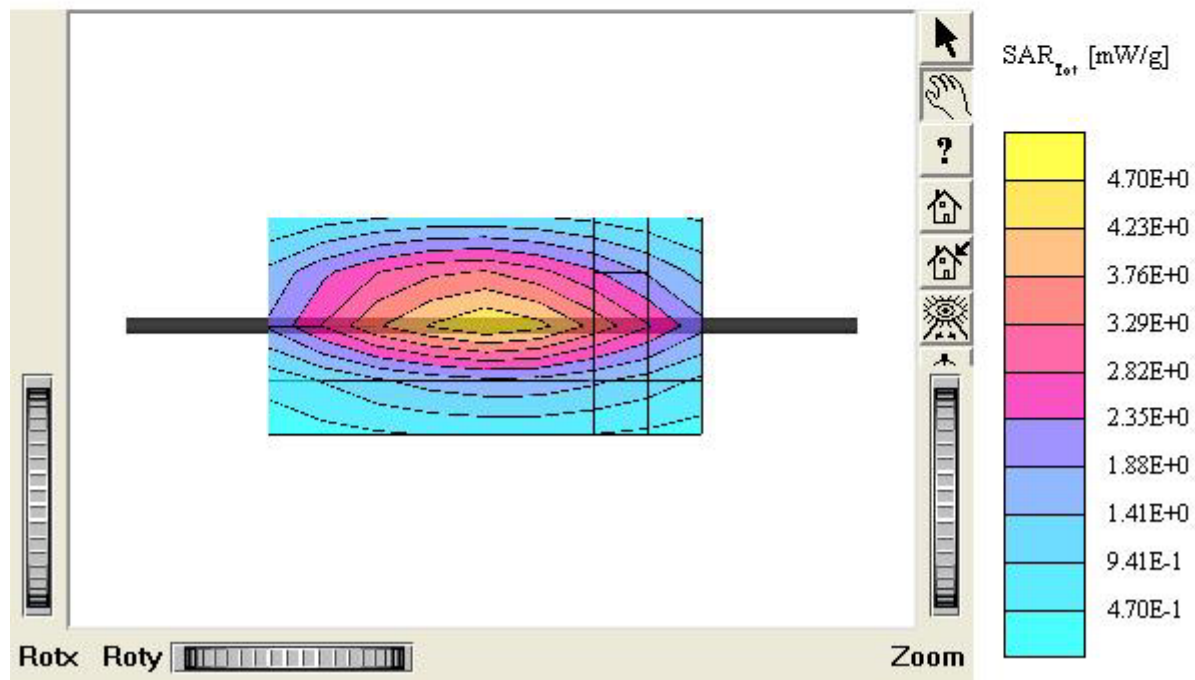
450MHz Brain

Antenna Input Power: 30dBm (1 W)

HCT Co., Ltd. Brain Tissue Simulating Liquid

Liquid Temperature : 21.3 °C

Date Tested : November 15, 2005



Dipole 450 MHz

SAM I Phantom; Section; Position; ; Frequency: 450 MHz

Probe: ET3DV6 - SN1798; ConvF(7.72,7.72,7.72); Crest factor: 1.0; Brain 450 MHz: $\sigma = 0.87 \text{ mho/m}$ $\epsilon_r = 43.7$ $\rho = 1.00 \text{ g/cm}^3$

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Z-Axis: Dx = 0.0, Dy = 0.0, Dz = 5.0

Comment :

Dipole Validation (D450V2/ S.N: 1007)

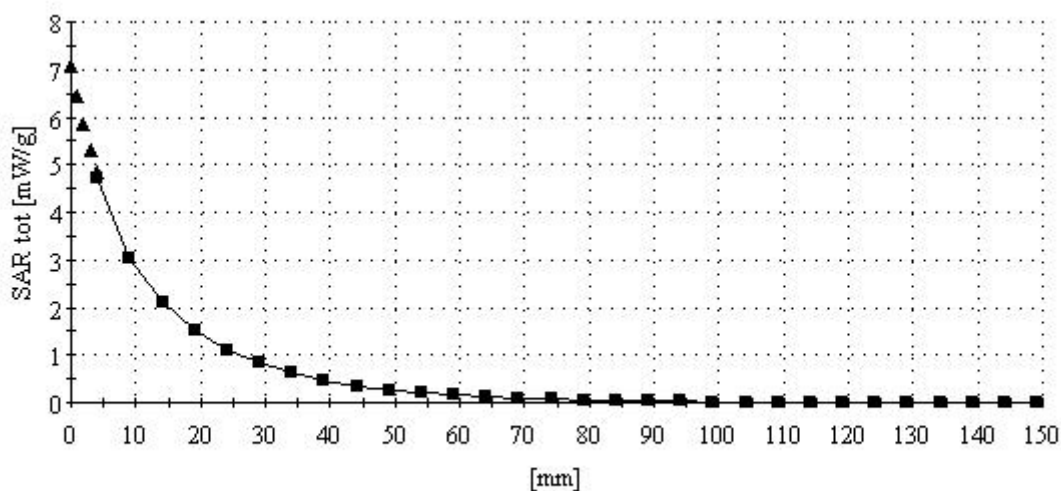
450MHz Brain

Antenna Input Power: 30dBm (1 W)

HCT Co., Ltd. Brain Tissue Simulating Liquid

Liquid Temperature : 21.3 °C

Date Tested : November 15, 2005



Title : LXT420

SubTitle : 450MHz HEAD

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Frequency	e'	e''
400.000000 MHz	44.9148	37.0934
405.000000 MHz	44.8149	36.7763
410.000000 MHz	44.7798	36.6108
415.000000 MHz	44.7004	36.2735
420.000000 MHz	44.5190	36.0491
425.000000 MHz	44.4865	35.8674
430.000000 MHz	44.2879	35.6170
435.000000 MHz	44.1073	35.3313
440.000000 MHz	44.0651	35.0503
445.000000 MHz	43.9346	34.8079
450.000000 MHz	43.6722	34.6667
455.000000 MHz	43.5344	34.4543
460.000000 MHz	43.4066	34.1717
465.000000 MHz	43.3045	34.0367
470.000000 MHz	43.2193	33.7128
475.000000 MHz	43.0544	33.5512
480.000000 MHz	43.0182	33.3458
485.000000 MHz	42.8326	33.1866
490.000000 MHz	42.6512	33.0305
495.000000 MHz	42.7079	32.8382
500.000000 MHz	42.5957	32.6605

Title : LXT420
SubTitle : 450MHz BODY
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Frequency	e'	e''
400.000000 MHz	55.3734	40.1989
405.000000 MHz	55.2442	39.9827
410.000000 MHz	55.0938	39.6299
415.000000 MHz	54.9892	39.4008
420.000000 MHz	54.8736	39.0975
425.000000 MHz	54.8039	38.8128
430.000000 MHz	54.7209	38.5567
435.000000 MHz	54.6133	38.3700
440.000000 MHz	54.5054	38.1680
445.000000 MHz	54.4166	37.8508
450.000000 MHz	54.3184	37.6760
455.000000 MHz	54.1983	37.3767
460.000000 MHz	54.1423	37.2025
465.000000 MHz	54.0741	36.9597
470.000000 MHz	54.0717	36.6716
475.000000 MHz	54.0423	36.5218
480.000000 MHz	53.9277	36.3920
485.000000 MHz	53.9195	36.2431
490.000000 MHz	53.7451	36.0604
495.000000 MHz	53.7228	35.8322
500.000000 MHz	53.6501	35.7756