

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: $\sigma = 0.86 \text{ mho/m}$, $\epsilon_r = 43.8$, $\rho = 1.00 \text{ g/cm}^3$

Cubes (2): SAR (1g): $4.98 \text{ mW/g} \pm 0.00 \text{ dB}$, SAR (10g): $3.22 \text{ mW/g} \pm 0.01 \text{ dB}$

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

Peak: $8.00 \text{ mW/g} \pm 0.00 \text{ dB}$; Powerdrift: -0.07 dB

Comment :

Dipole Validation (D450V2/ S.N: 1007)

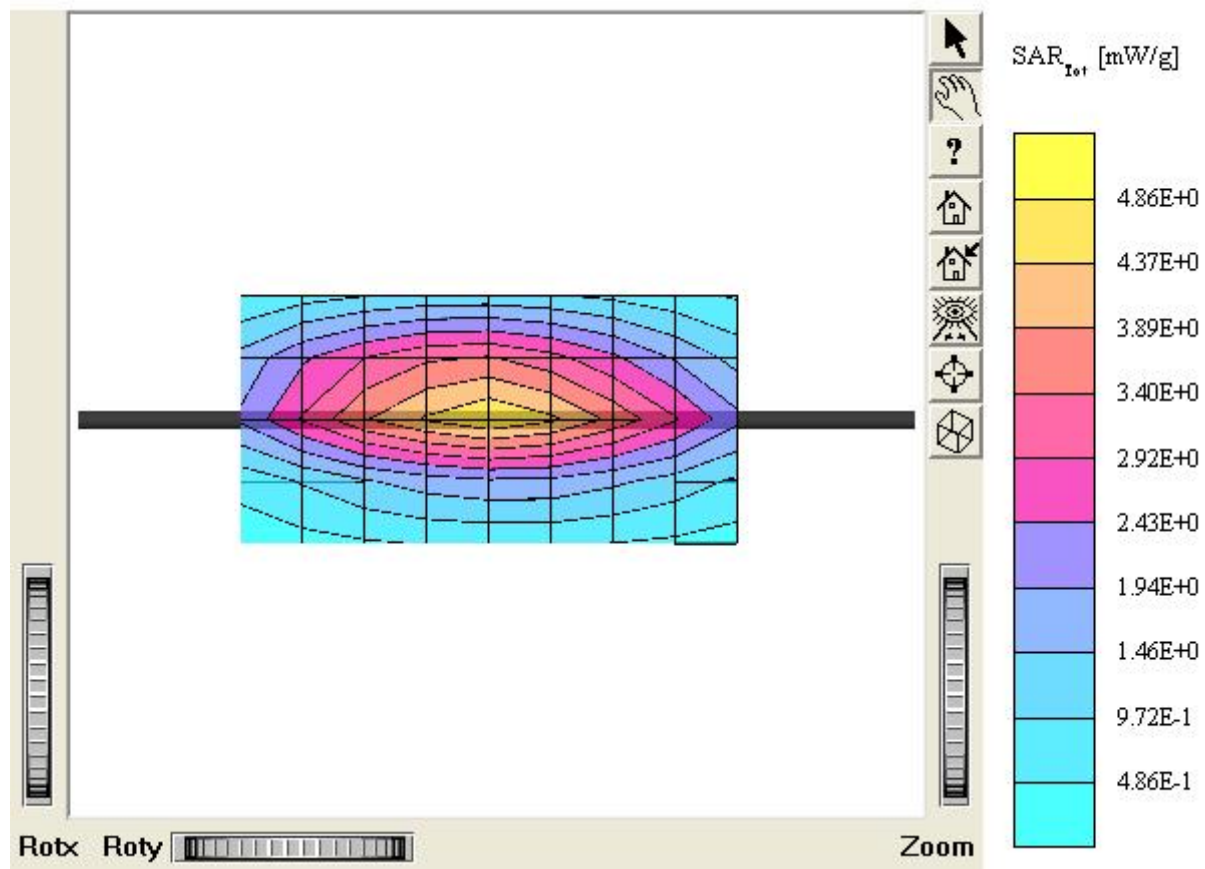
450MHz Brain

Antenna Input Power: 30dBm (1 W)

HCT Co., Ltd. Brain Tissue Simulating Liquid

Liquid Temperature : 21.8 °C

Date Tested : March 11, 2005



Dipole 450 MHz

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

Probe: ET3DV6 - SN1609; ConvF(7.69,7.69,7.69); Crest factor: 1.0; Brain 450 MHz: $\sigma = 0.86 \text{ mho/m}$ $\epsilon_r = 43.8$ $\rho = 1.00 \text{ g/cm}^3$

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Z-Axis: $D_x = 0.0$, $D_y = 0.0$, $D_z = 5.0$

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Comment :

Dipole Validation (D450V2/ S.N: 1007)

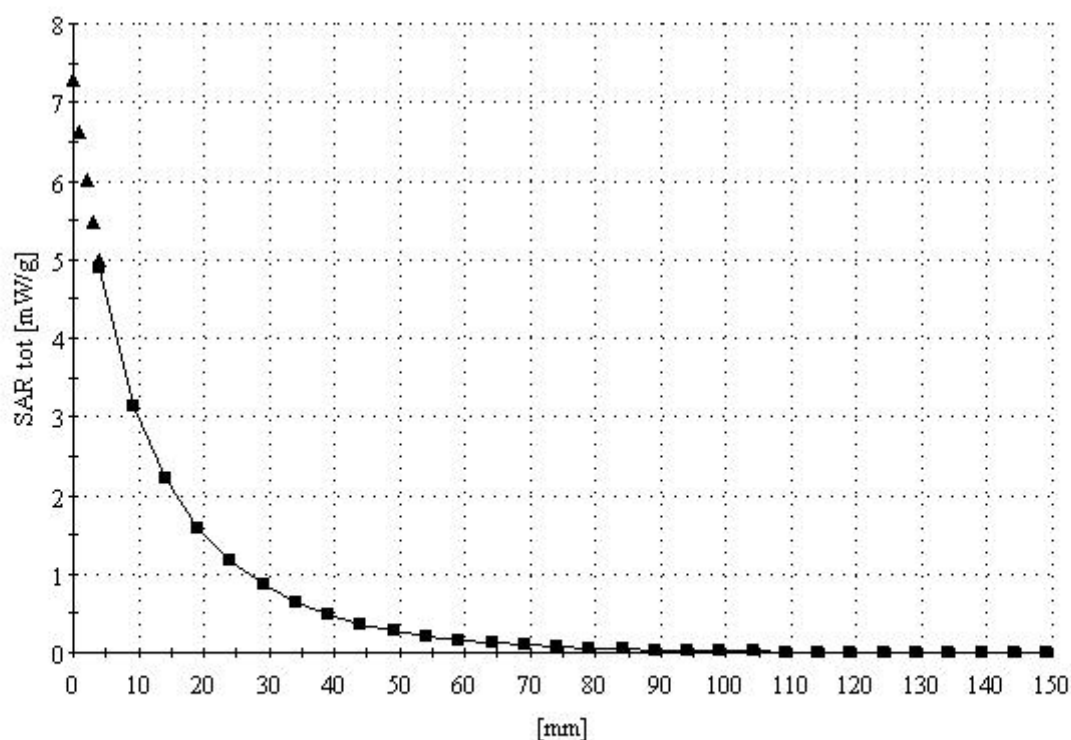
450MHz Brain

Antenna Input Power: 30dBm (1 W)

HCT Co., Ltd. Brain Tissue Simulating Liquid

Liquid Temperature : 21.8 °C

Date Tested : March 11, 2005



Title : LXT210

SubTitle : 450MHz Brain

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Frequency	e'	e''
400.000000 MHz	45.0642	36.8209
405.000000 MHz	44.9999	36.6254
410.000000 MHz	44.9188	36.2326
415.000000 MHz	44.6002	36.0052
420.000000 MHz	44.4138	35.7448
425.000000 MHz	44.4477	35.4776
430.000000 MHz	44.3122	35.2610
435.000000 MHz	44.1368	35.0171
440.000000 MHz	43.9255	34.7654
445.000000 MHz	43.9186	34.5829
450.000000 MHz	43.7998	34.4029
455.000000 MHz	43.7653	34.2693
460.000000 MHz	43.6218	34.1375
465.000000 MHz	43.5565	33.9052
470.000000 MHz	43.4850	33.8501
475.000000 MHz	43.5002	33.6570
480.000000 MHz	43.4311	33.4901
485.000000 MHz	43.4151	33.3176
490.000000 MHz	43.4284	33.2129
495.000000 MHz	43.3691	32.9844
500.000000 MHz	43.4417	32.8229

Title : LXT210

SubTitle : 450MHz Body

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Frequency	e'	e''
400.000000 MHz	55.4694	40.1395
405.000000 MHz	55.3100	39.7605
410.000000 MHz	55.1539	39.4422
415.000000 MHz	55.0021	39.1308
420.000000 MHz	54.9003	38.9094
425.000000 MHz	54.7203	38.6873
430.000000 MHz	54.5430	38.3507
435.000000 MHz	54.5167	38.1711
440.000000 MHz	54.4023	37.9337
445.000000 MHz	54.2726	37.7044
450.000000 MHz	54.1132	37.5052
455.000000 MHz	53.9513	37.1786
460.000000 MHz	53.9838	37.0648
465.000000 MHz	53.8653	36.7969
470.000000 MHz	53.9124	36.5656
475.000000 MHz	53.9090	36.4941
480.000000 MHz	53.7535	36.2470
485.000000 MHz	53.7951	36.1614
490.000000 MHz	53.7103	35.9789
495.000000 MHz	53.7326	35.7950
500.000000 MHz	53.5823	35.7028