

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: $s = 0.85$ $\rho_{\text{ho/m e}} = 44.4$ $r = 1.00$ g/cm³Cubes (2): SAR (1g): 4.78 mW/g ± 0.15 dB, SAR (10g): 3.11 mW/g ± 0.14 dB

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

Powerdrift: 0.06 dB

Comment:

Dipole Validation (D450V2/ S.N: 1007)

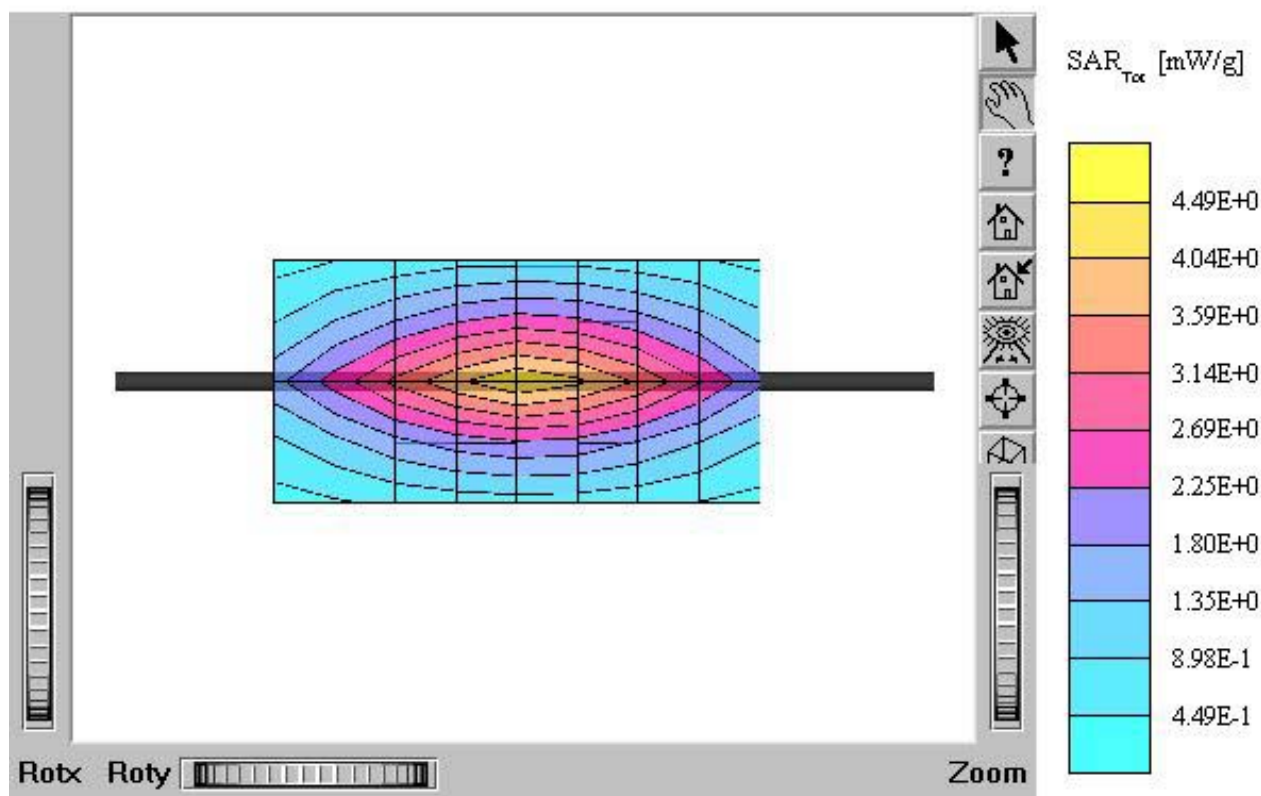
450MHz Brain

Antenna Input Power: 30dBm (1 W)

HCT Co., Ltd. Brain Tissue Simulating Liquid

Liquid Temperature: 21.3 °C

Date Tested: January 21, 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: $s = 0.85$
 $\rho_{\text{ho/m}} e_r = 44.4$ $r = 1.00$ g/cm³
Cubes (2): SAR (1g): $4.78 \text{ mW/g} \pm 0.15 \text{ dB}$, SAR (10g): $3.11 \text{ mW/g} \pm 0.14 \text{ dB}$
Cube 5x5x7: $D_x = 8.0$, $D_y = 8.0$, $D_z = 5.0$

Comment:

Dipole Validation (D450V2/ S.N: 1007)

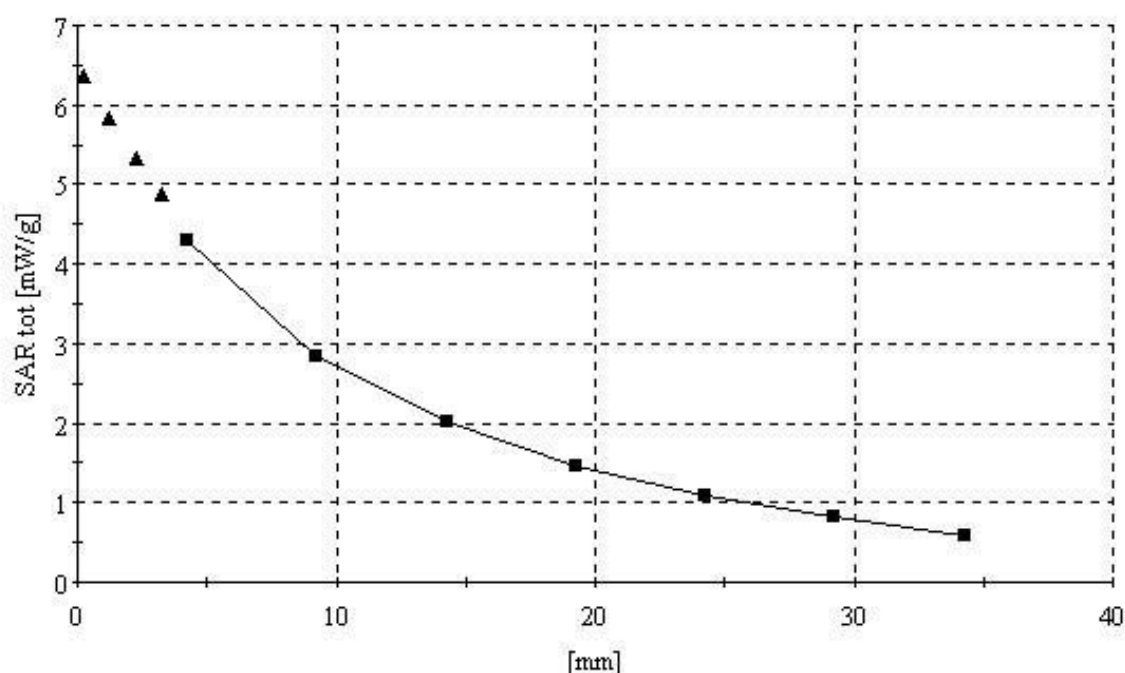
450MHz Brain

Antenna Input Power: 30dBm (1 W)

HCT Co., Ltd. Brain Tissue Simulating Liquid

Liquid Temperature: 21.3 °C

Date Tested: January 21, 2005



Title : GMRS-602

SubTitle : 450MHz Brain

January 21, 2005 09:32 AM

Frequency	e'	e''
400.000000 MHz	45.4705	36.4487
405.000000 MHz	45.3892	36.1760
410.000000 MHz	45.3631	35.8505
415.000000 MHz	45.2145	35.6515
420.000000 MHz	45.0295	35.4530
425.000000 MHz	45.0531	35.1687
430.000000 MHz	44.8225	34.8901
435.000000 MHz	44.6659	34.6844
440.000000 MHz	44.5232	34.4241
445.000000 MHz	44.5222	34.2044
450.000000 MHz	44.4150	34.0246
455.000000 MHz	44.2651	33.9113
460.000000 MHz	44.2387	33.7443
465.000000 MHz	44.0751	33.5120
470.000000 MHz	44.0112	33.4847
475.000000 MHz	44.0163	33.3217
480.000000 MHz	43.8672	33.1345
485.000000 MHz	43.8436	32.9478
490.000000 MHz	43.7816	32.7363
495.000000 MHz	43.7125	32.4785
500.000000 MHz	43.6824	32.4403

Title : GMRS-602

SubTitle : 450MHz Body

January 21, 2005 01:20 PM

Frequency	e'	e''
400.000000 MHz	56.2996	40.3758
405.000000 MHz	56.2901	40.1747
410.000000 MHz	56.0765	39.7648
415.000000 MHz	56.0262	39.4380
420.000000 MHz	55.9471	39.0625
425.000000 MHz	55.8412	38.8614
430.000000 MHz	55.7892	38.6149
435.000000 MHz	55.6367	38.3531
440.000000 MHz	55.5679	38.0031
445.000000 MHz	55.4039	37.7563
450.000000 MHz	55.3254	37.4409
455.000000 MHz	55.3656	37.2409
460.000000 MHz	55.2546	37.1309
465.000000 MHz	55.2075	36.9547
470.000000 MHz	55.0631	36.7465
475.000000 MHz	54.9048	36.5457
480.000000 MHz	54.8017	36.2475
485.000000 MHz	54.7092	36.0784
490.000000 MHz	54.6244	35.7690
495.000000 MHz	54.4816	35.5130
500.000000 MHz	54.6431	35.2837

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: $s = 0.85$ $\rho/m \epsilon_r = 44.5$ $r = 1.00$ g/cm³Cubes (2): SAR (1g): 4.93 mW/g ± 0.00 dB, SAR (10g): 3.19 mW/g ± 0.02 dB

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

Powerdrift: -0.00 dB

Comment:

Dipole Validation (D450V2/ S.N: 1007)

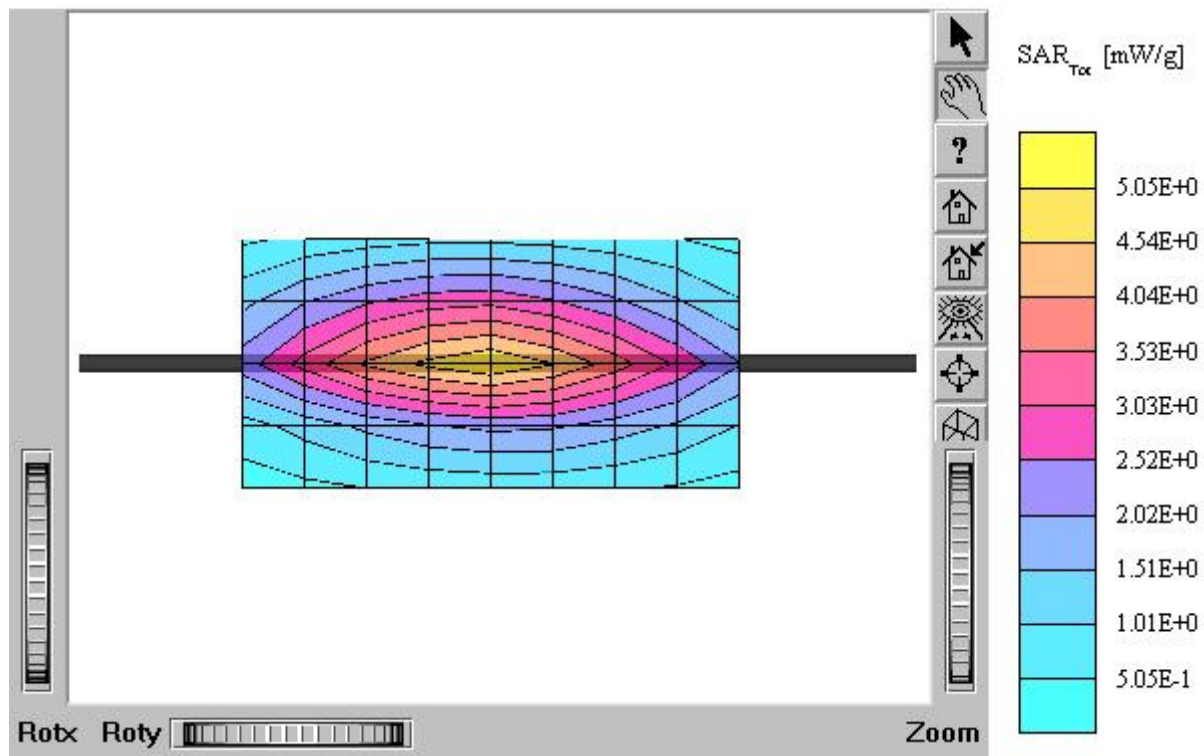
450MHz Brain

Antenna Input Power: 30dBm (1 W)

HCT Co., Ltd. Brain Tissue Simulating Liquid

Liquid Temperature : 21.5 °C

Date Tested : February 15, 2005



Title : GMRS-602

SubTitle : 450MHz Brain

February 15, 2005 09:27 AM

Frequency	e'	e''
400.000000 MHz	45.4940	36.4662
405.000000 MHz	45.4475	36.2914
410.000000 MHz	45.4493	35.9501
415.000000 MHz	45.2352	35.7898
420.000000 MHz	45.0970	35.5027
425.000000 MHz	45.0455	35.2488
430.000000 MHz	44.8915	34.9576
435.000000 MHz	44.8156	34.7772
440.000000 MHz	44.5752	34.5117
445.000000 MHz	44.5581	34.3124
450.000000 MHz	44.4690	34.1285
455.000000 MHz	44.3100	33.9598
460.000000 MHz	44.2474	33.7980
465.000000 MHz	44.1633	33.6067
470.000000 MHz	44.0624	33.4672
475.000000 MHz	43.9932	33.2899
480.000000 MHz	43.9561	33.1373
485.000000 MHz	43.8237	32.9336
490.000000 MHz	43.7593	32.8095
495.000000 MHz	43.7465	32.5758
500.000000 MHz	43.7903	32.4727

Title : GMRS-602

SubTitle : 450MHz Body

February 15, 2005 02:15 PM

Frequency	e'	e''
400.000000 MHz	55.4353	40.1880
405.000000 MHz	55.2369	39.9419
410.000000 MHz	55.2234	39.4817
415.000000 MHz	55.0927	39.1762
420.000000 MHz	55.0060	38.9307
425.000000 MHz	54.8480	38.7241
430.000000 MHz	54.7500	38.3918
435.000000 MHz	54.5357	38.1676
440.000000 MHz	54.5306	37.8898
445.000000 MHz	54.3586	37.6493
450.000000 MHz	54.2208	37.3697
455.000000 MHz	54.1480	37.2160
460.000000 MHz	54.0921	37.0435
465.000000 MHz	53.9920	36.8738
470.000000 MHz	53.8487	36.5233
475.000000 MHz	53.8669	36.4662
480.000000 MHz	53.8335	36.2848
485.000000 MHz	53.7360	36.0483
490.000000 MHz	53.5772	35.9357
495.000000 MHz	53.5562	35.7090
500.000000 MHz	53.4671	35.5703