

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: $s = 0.86$
 $\rho_{\text{ho/m e}} = 44.4$ $r = 1.00$ g/cm³

Cubes (2): SAR (1g): $4.51 \text{ mW/g} \pm 0.02 \text{ dB}$, SAR (10g): $3.00 \text{ mW/g} \pm 0.02 \text{ dB}$

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

Powerdrift: 0.04 dB

Comment:

Dipole Validation (D450V2/ S.N: 1007)

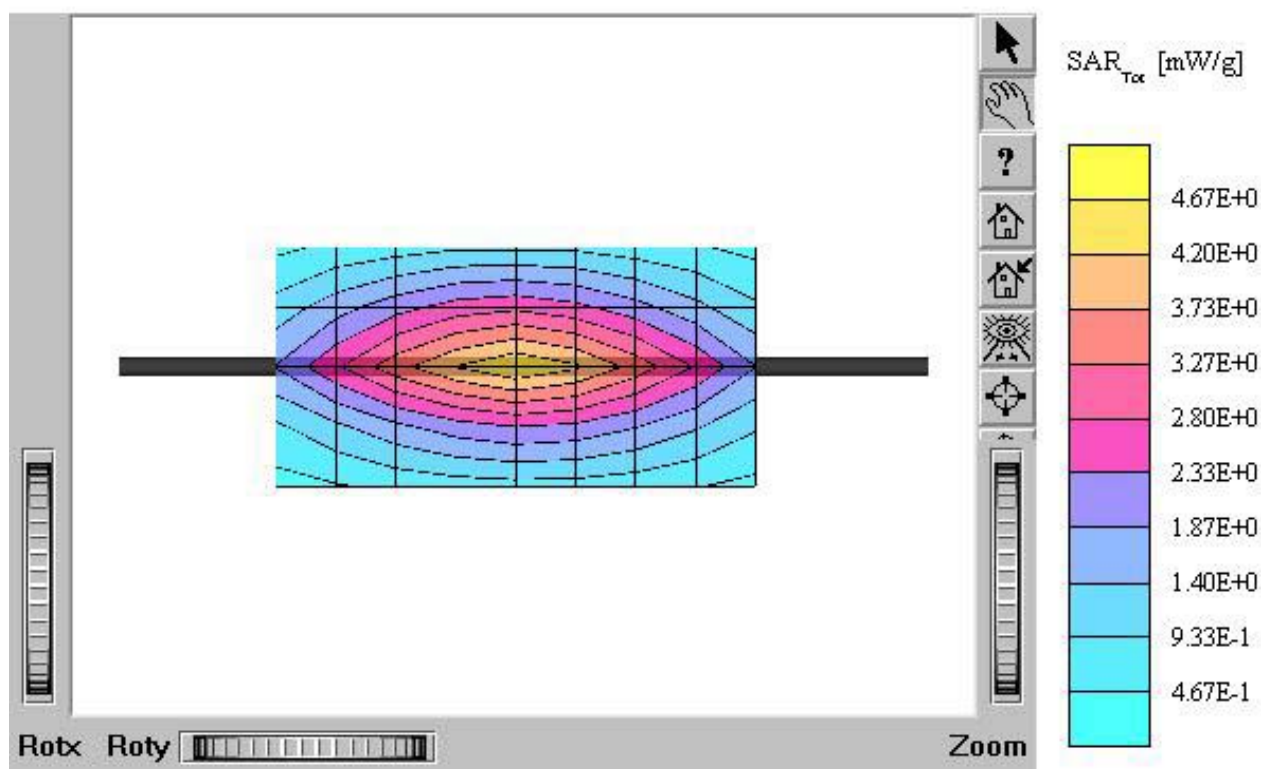
450MHz Brain

Antenna Input Power: 30dBm (1 W)

HCT Co., Ltd. Brain Tissue Simulating Liquid

Liquid Temperature: 21.6 °C

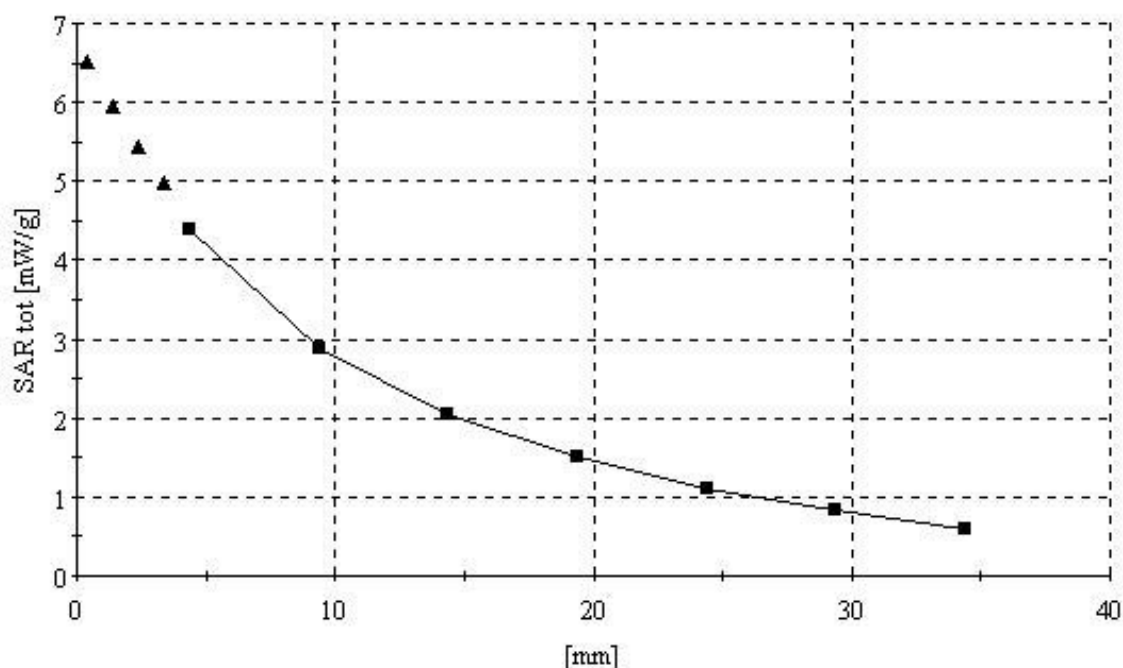
Date Tested: January 20, 2005



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: $s = 0.86$
 $\rho = 44.4$ g/cm³
Cubes (2): SAR (1g): 4.51 mW/g ± 0.02 dB, SAR (10g): 3.00 mW/g ± 0.02 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: 21.6 °C
Date Tested: January 20, 2005



Title : GMRS-1202

SubTitle : 450MHz Brain

January 20, 2005 09:40 AM

Frequency	e'	e''
400.000000 MHz	45.4360	36.7882
405.000000 MHz	45.2919	36.5003
410.000000 MHz	45.3271	36.0907
415.000000 MHz	45.1372	35.9459
420.000000 MHz	44.9475	35.7051
425.000000 MHz	44.8951	35.4298
430.000000 MHz	44.7842	35.1500
435.000000 MHz	44.5992	35.0041
440.000000 MHz	44.4764	34.7376
445.000000 MHz	44.3936	34.4708
450.000000 MHz	44.3584	34.2585
455.000000 MHz	44.2543	34.1915
460.000000 MHz	44.2198	33.9679
465.000000 MHz	44.0623	33.7688
470.000000 MHz	43.8923	33.6935
475.000000 MHz	43.9004	33.4838
480.000000 MHz	43.8214	33.2836
485.000000 MHz	43.7418	33.1752
490.000000 MHz	43.6811	32.9617
495.000000 MHz	43.5632	32.7104
500.000000 MHz	43.6090	32.6064

Title : GMRS-1202

SubTitle : 450MHz Body

January 20, 2005 01:50 PM

Frequency	e'	e''
400.000000 MHz	55.9750	40.3483
405.000000 MHz	55.9690	40.1483
410.000000 MHz	55.9967	39.7272
415.000000 MHz	55.9391	39.4128
420.000000 MHz	55.8362	39.1239
425.000000 MHz	55.7681	38.7945
430.000000 MHz	55.5939	38.5322
435.000000 MHz	55.6521	38.3304
440.000000 MHz	55.5758	37.9430
445.000000 MHz	55.4857	37.7790
450.000000 MHz	55.4064	37.4632
455.000000 MHz	55.3401	37.2081
460.000000 MHz	55.3051	37.1020
465.000000 MHz	55.2626	36.8598
470.000000 MHz	55.0667	36.7642
475.000000 MHz	54.9603	36.4612
480.000000 MHz	54.8255	36.1883
485.000000 MHz	54.7254	35.9854
490.000000 MHz	54.6136	35.7181
495.000000 MHz	54.5117	35.4890
500.000000 MHz	54.5859	35.2612

Dipole 450 MHz

SAM 1 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: $s = 0.86$ $\rho/m_e = 43.8$ $r = 1.00$ g/cm³Cubes (2): SAR (1g): 4.97 mW/g ± 0.03 dB, SAR (10g): 3.22 mW/g ± 0.03 dB

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

Powerdrift: -0.04 dB

Comment:

Dipole Validation (D450V2/ S.N: 1007)

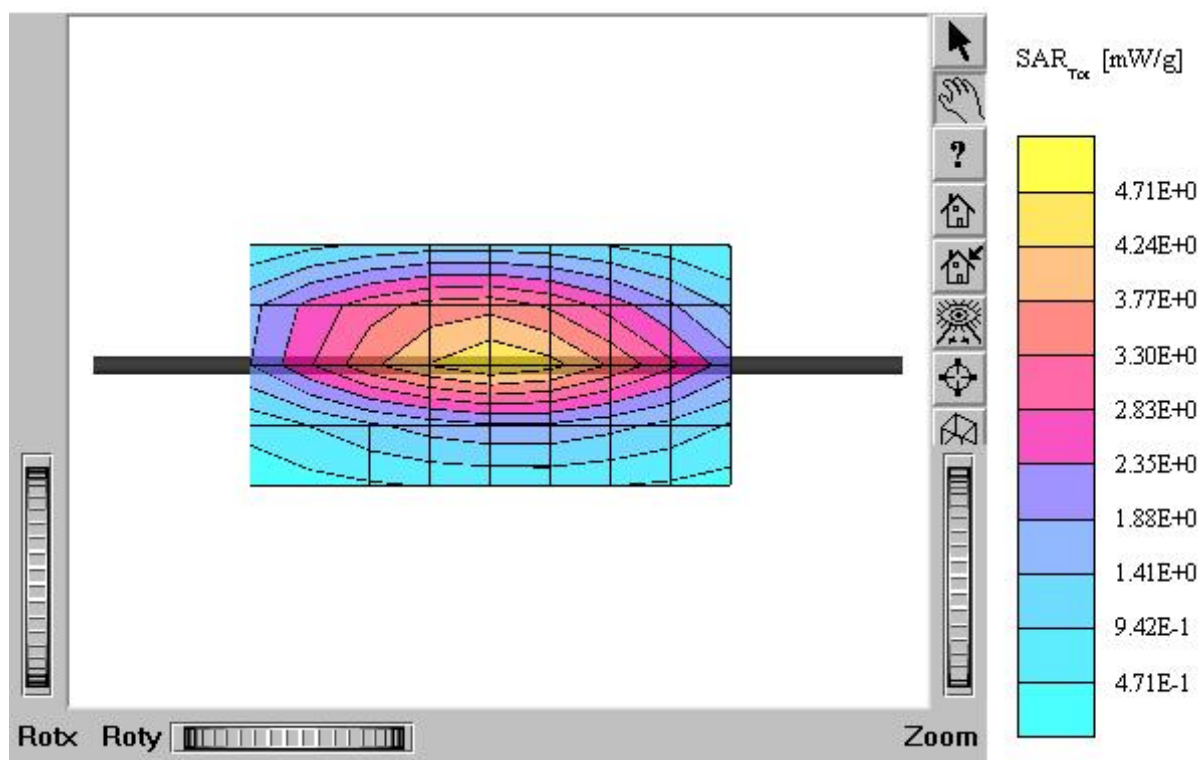
450MHz Brain

Antenna Input Power: 30dBm (1 W)

HCT Co., Ltd. Brain Tissue Simulating Liquid

Liquid Temperature : 21.5 °C

Date Tested : February 15, 2005



Title : GMRS-1202

SubTitle : 450MHz Brain

February 15, 2005 09:40 AM

Frequency	e'	e''
400.000000 MHz	45.1314	36.7066
405.000000 MHz	44.9621	36.5069
410.000000 MHz	45.0056	36.1279
415.000000 MHz	44.7131	35.9481
420.000000 MHz	44.5898	35.7186
425.000000 MHz	44.5221	35.4467
430.000000 MHz	44.3198	35.1817
435.000000 MHz	44.2038	34.9488
440.000000 MHz	44.0190	34.7510
445.000000 MHz	43.9712	34.5558
450.000000 MHz	43.8393	34.4154
455.000000 MHz	43.7719	34.1940
460.000000 MHz	43.7122	34.0127
465.000000 MHz	43.6189	33.8406
470.000000 MHz	43.5016	33.7302
475.000000 MHz	43.4888	33.5874
480.000000 MHz	43.4685	33.3954
485.000000 MHz	43.3554	33.2750
490.000000 MHz	43.5154	33.1113
495.000000 MHz	43.3574	32.8144
500.000000 MHz	43.4223	32.8092

Title : GMRS-1202

SubTitle : 450MHz Body

February 16, 2005 12:44 PM

Frequency	e'	e''
400.000000 MHz	55.2386	38.9475
405.000000 MHz	55.0023	38.6178
410.000000 MHz	54.9440	38.2131
415.000000 MHz	54.7503	37.9647
420.000000 MHz	54.7062	37.6245
425.000000 MHz	54.6112	37.4411
430.000000 MHz	54.4453	37.0767
435.000000 MHz	54.4779	36.9189
440.000000 MHz	54.2280	36.6036
445.000000 MHz	54.2279	36.3637
450.000000 MHz	54.1811	36.0800
455.000000 MHz	54.0085	35.9208
460.000000 MHz	53.9877	35.7542
465.000000 MHz	53.8492	35.5031
470.000000 MHz	53.8003	35.2302
475.000000 MHz	53.7480	35.0720
480.000000 MHz	53.5849	34.8046
485.000000 MHz	53.5833	34.6164
490.000000 MHz	53.4634	34.3677
495.000000 MHz	53.3595	34.1032
500.000000 MHz	53.3654	33.9417