

APPENDIX D – DIPOLE VALIDATION PLOTS

GMRS7001

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

Probe: ET3DV6 - SN1609; ConvF(7.40,7.40,7.40); Crest factor: 1.0; Brain 450 MHz: $\sigma = 0.84$ mho/m $\epsilon_r = 43.8$ $\rho = 1.00$ g/cm³Cubes (2): SAR (1g): 5.05 mW/g ± 0.01 dB, SAR (10g): 3.49 mW/g ± 0.01 dB

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

Powerdrift: -0.02 dB

Comment:

Dipole Validation (D450V2/ S.N: 1007)

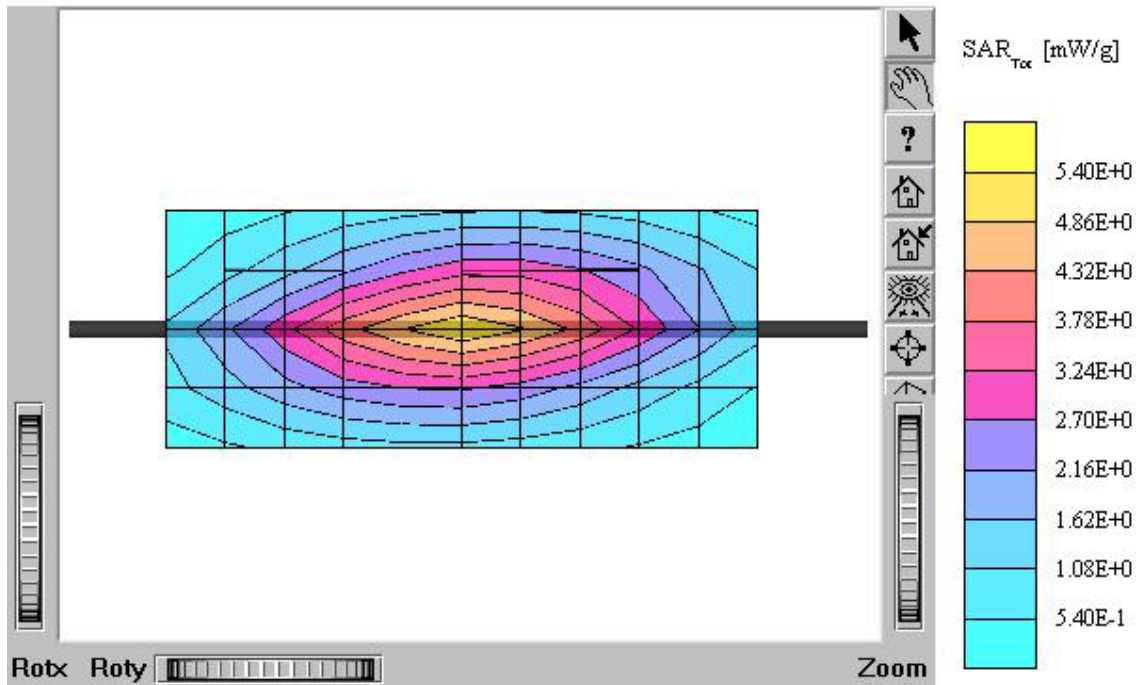
450MHz Brain

Antenna Input Power: 30dBm (1 W)

HCT Co., Ltd. Brain Tissue Simulating Liquid

Liquid Temperature: 21.5 °C

Date Tested: March 7, 2003



GMRS7001

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Cube 5x5x7: Dx = 8.0, Dy = 8.0, Dz = 5.0

Comment:

Dipole Validation (D450V2/ S.N: 1007)

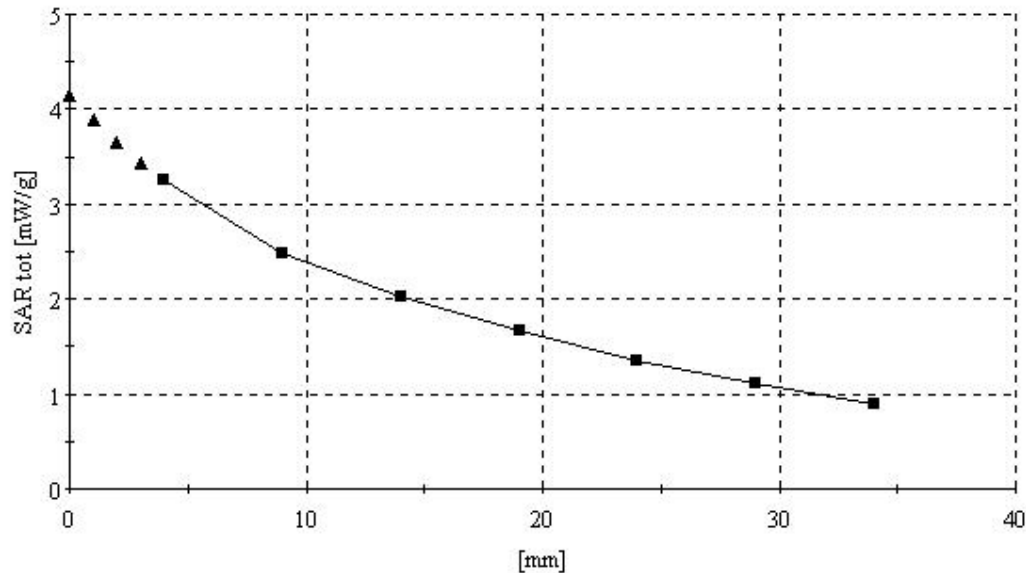
450MHz Brain

Antenna Input Power: 30dBm (1 W)

HCT Co., Ltd. Brain Tissue Simulating Liquid

Liquid Temperature: 21.5 °C

Date Tested: March 7, 2003



Title : GMRS7001

SubTitle : 450 MHz Brain

March 07, 2003 09:33 AM

Frequency	e'	e''
400.000000 MHz	45.0083	36.2855
405.000000 MHz	45.0130	36.0037
410.000000 MHz	44.8826	35.7069
415.000000 MHz	44.8296	35.5068
420.000000 MHz	44.6537	35.2098
425.000000 MHz	44.5758	34.8856
430.000000 MHz	44.3573	34.7852
435.000000 MHz	44.3014	34.4506
440.000000 MHz	44.0993	34.2796
445.000000 MHz	44.0257	34.0552
450.000000 MHz	43.7784	33.7880
455.000000 MHz	43.7850	33.6911
460.000000 MHz	43.5492	33.4512
465.000000 MHz	43.5007	33.3323
470.000000 MHz	43.3929	33.1715
475.000000 MHz	43.2156	33.0077
480.000000 MHz	43.1226	32.7988
485.000000 MHz	43.0717	32.6221
490.000000 MHz	43.0896	32.4372
495.000000 MHz	42.8603	32.3145
500.000000 MHz	42.6796	32.0507

Title : GMRS7001

SubTitle : 450 MHz Body

March 07, 2003 01:53 AM

Frequency	e'	e''
400.000000 MHz	56.1720	40.3772
405.000000 MHz	56.1398	40.1597
410.000000 MHz	56.0802	39.7850
415.000000 MHz	55.9664	39.4491
420.000000 MHz	55.8954	39.1129
425.000000 MHz	55.8302	38.8030
430.000000 MHz	55.7397	38.5644
435.000000 MHz	55.6785	38.3649
440.000000 MHz	55.3875	37.9794
445.000000 MHz	55.4266	37.6745
450.000000 MHz	55.3734	37.3931
455.000000 MHz	55.3073	37.2336
460.000000 MHz	55.2834	37.0876
465.000000 MHz	55.1949	36.9387
470.000000 MHz	55.0313	36.7714
475.000000 MHz	54.8698	36.5530
480.000000 MHz	54.7396	36.2966
485.000000 MHz	54.6884	36.0648
490.000000 MHz	54.6075	35.7726
495.000000 MHz	54.4913	35.4758
500.000000 MHz	54.5432	35.3053