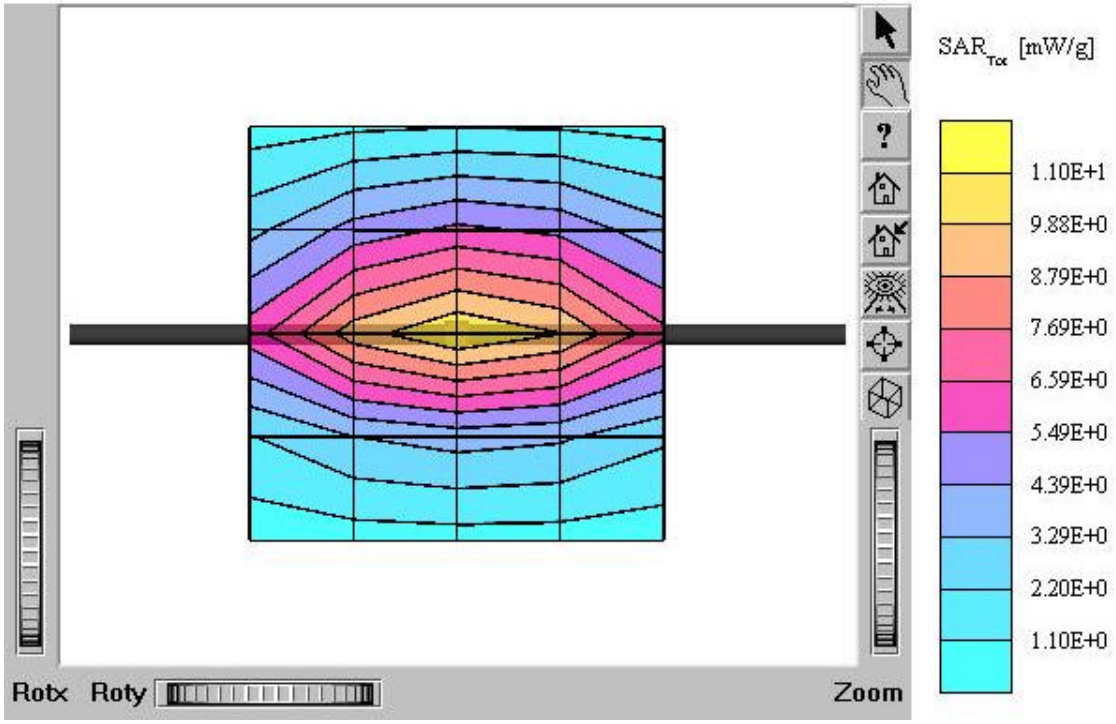
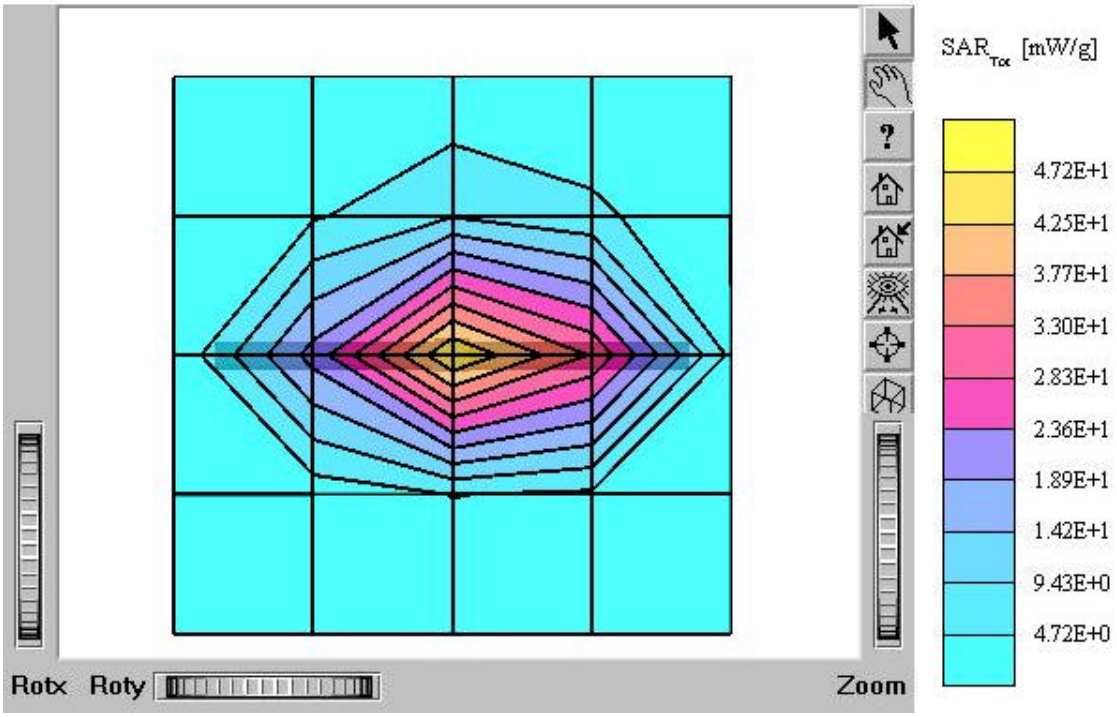
Validation Data (835MHz Brain)

Dipole 835 MHz
SAM I Phantom; Flat Section; Position: (90°,90°); Frequency: 835 MHz
Probe: ET3DV6 - SN1798; ConvF(6.60,6.60,6.60); Crest factor: 1.0; Brain 835 MHz: σ = 0.90 mho/m ε_r = 42.7 ρ = 1.00 g/cm^3
Cubes (2): SAR (1g): 10.2 mW/g ± 0.00 dB, SAR (10g): 6.44 mW/g ± 0.01 dB
Coarse: Dx = 20.0, Dy = 20.0, Dz = 10.0
Powerdrift: 0.01 dB
Comment:
835MHz Brain Dipole Validation (D835V2/ S.N: 441)
Antenna Input Power: 30 dBm (1 W)
HCT Co., Ltd. Brain Tissue Simulating Liquid
Liquid Temperature: 21.4 ℃
Date Tested : December 15, 2003



Validation Data (1900MHz Brain)

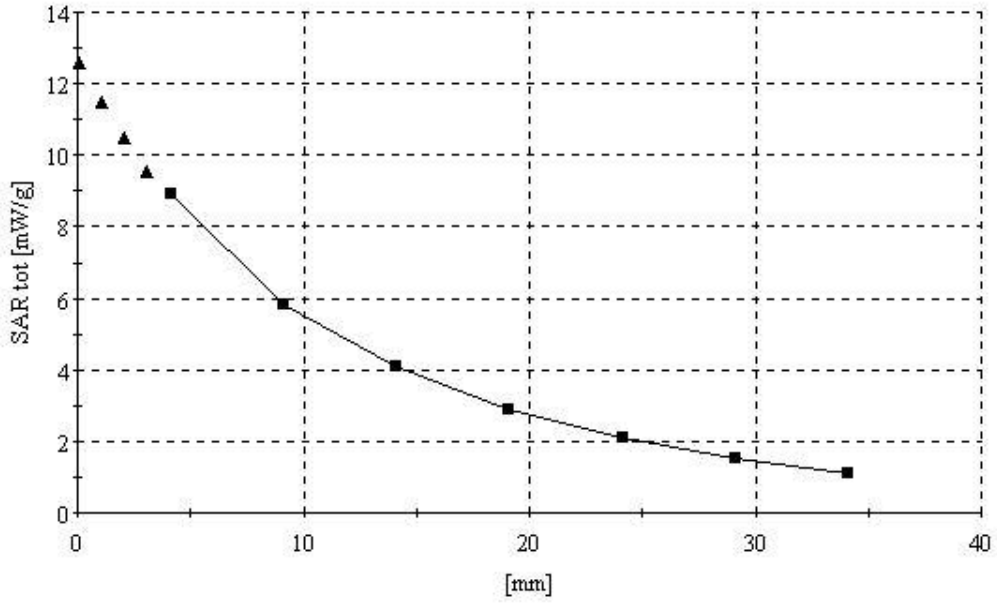
Dipole 1900 MHz
SAM II Phantom; Flat Section; Position: (90°,90°); Frequency: 1900 MHz
Probe: ET3DV6 - SN1798; ConvF(5.20,5.20,5.20); Crest factor: 1.0; Brain 1900 MHz: σ = 1.42 mho/m ε_r = 38.9 ρ = 1.00 g/cm^3
Cubes (2): SAR (1g): 41.0 mW/g ± 0.07 dB, SAR (10g): 21.0 mW/g ± 0.05 dB
Coarse: Dx = 20.0, Dy = 20.0, Dz = 10.0
Powerdrift: 0.04 dB
Comment:
1900 MHz Brain Dipole Validation (D1900V2/ S.N: 5d032)
Antenna Input Power: 30 dBm (1 W)
HCT Co., Ltd. Brain Tissue Simulating Liquid
Liquid Temperature : 21.7 ℃
Date Tested : December 16, 2003



Dipole 835 MHz

SAM I Phantom; Flat Section; Position: (90°,90°); Frequency: 835 MHz
Probe: ET3DV6 - SN1798; ConvF(6.60,6.60,6.60); Crest factor: 1.0; Brain 835 MHz: σ = 0.90 mho/m ε_r = 42.7 ρ = 1.00 g/cm^3
Cubes (2): SAR (1g): 10.2 mW/g ± 0.00 dB, SAR (10g): 6.44 mW/g ± 0.01 dB
Cube 5x5x7: Dx = 8.0, Dy = 8.0, Dz = 5.0

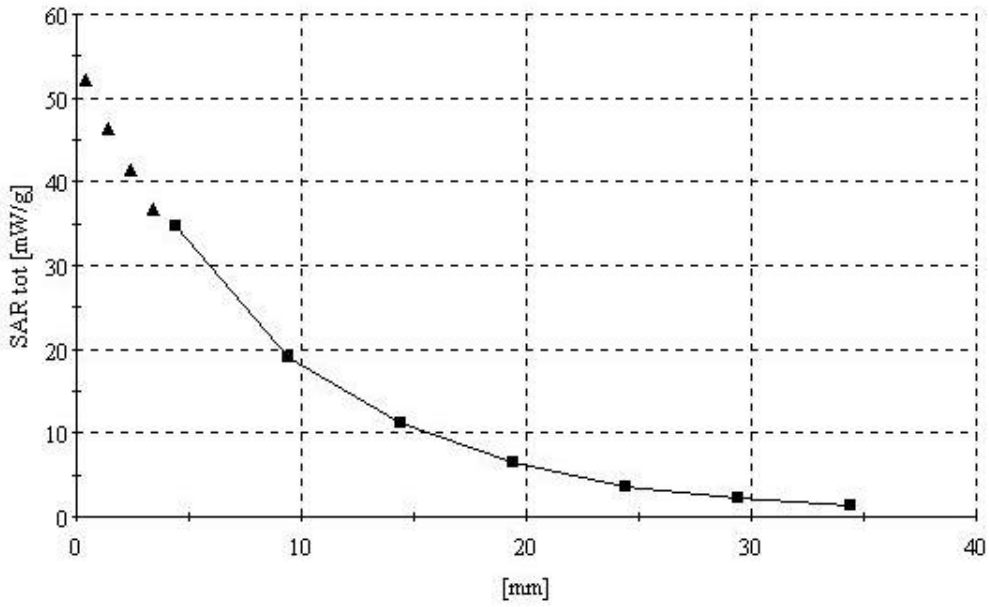
Comment:
835MHz Brain Dipole Validation (D835V2/ S.N: 441)
Antenna Input Power: 30 dBm (1 W)
HCT Co., Ltd. Brain Tissue Simulating Liquid
Liquid Temperature: 21.4 ℃
Date Tested : December 15, 2003



Dipole 1900 MHz

SAM II Phantom; Flat Section; Position: (90°,90°); Frequency: 1900 MHz
Probe: ET3DV6 - SN1798; ConvF(5.20,5.20,5.20); Crest factor: 1.0; Brain 1900 MHz: σ = 1.42 mho/m ε_r = 38.9 ρ = 1.00 g/cm^3
Cubes (2): SAR (1g): 41.0 mW/g ± 0.07 dB, SAR (10g): 21.0 mW/g ± 0.05 dB
Cube 5x5x7: Dx = 8.0, Dy = 8.0, Dz = 5.0

Comment:
1900 MHz Brain Dipole Validation (D1900V2/ S.N: 5d032)
Antenna Input Power: 30 dBm (1 W)
HCT Co., Ltd. Brain Tissue Simulating Liquid
Liquid Temperature : 21.7 ℃
Date Tested : December 16, 2003



Dielectric Parameter (835MHz Brain)

Title : SCP-500
SubTitle : 835 MHz Brain
December 15, 2003 08:41 AM

Frequency	e'	e''
800.000000 MHz	43.2829	19.4974
805.000000 MHz	43.1596	19.5087
810.000000 MHz	43.0910	19.5158
815.000000 MHz	42.9780	19.5141
820.000000 MHz	42.9078	19.4685
825.000000 MHz	42.8562	19.4288
830.000000 MHz	42.7565	19.4035
835.000000 MHz	42.6562	19.4634
840.000000 MHz	42.5932	19.4283
845.000000 MHz	42.5626	19.3216
850.000000 MHz	42.4998	19.2461
855.000000 MHz	42.4876	19.0947
860.000000 MHz	42.4663	19.1222
865.000000 MHz	42.4560	19.1155
870.000000 MHz	42.4004	19.0916
875.000000 MHz	42.3446	19.0985
880.000000 MHz	42.3163	19.0923
885.000000 MHz	42.2101	19.1096
890.000000 MHz	42.1316	19.1137
895.000000 MHz	42.0495	19.1191
900.000000 MHz	41.9785	19.0916

Dielectric Parameter (1900MHz Brain)

Title : SCP-500
SubTitle : 1900 MHz Brain
December 16, 2003 09:13 AM

Frequency	e'	e''
1.700000000 GHz	39.6198	12.9868
1.710000000 GHz	39.6639	13.0755
1.720000000 GHz	39.7393	13.1514
1.730000000 GHz	39.8111	13.1817
1.740000000 GHz	39.8203	13.1982
1.750000000 GHz	39.7861	13.1446
1.760000000 GHz	39.6976	13.1173
1.770000000 GHz	39.5616	13.1007
1.780000000 GHz	39.4232	13.0927
1.790000000 GHz	39.2730	13.1382
1.800000000 GHz	39.1610	13.1737
1.810000000 GHz	39.1126	13.2772
1.820000000 GHz	39.1400	13.3438
1.830000000 GHz	39.1927	13.4546
1.840000000 GHz	39.2238	13.5175
1.850000000 GHz	39.2915	13.5303
1.860000000 GHz	39.3115	13.5328
1.870000000 GHz	39.2731	13.5265
1.880000000 GHz	39.1614	13.5157
1.890000000 GHz	39.0307	13.5057
1.900000000 GHz	38.8827	13.4987
1.910000000 GHz	38.7557	13.5179
1.920000000 GHz	38.6561	13.5735
1.930000000 GHz	38.5705	13.6207
1.940000000 GHz	38.6058	13.7086
1.950000000 GHz	38.6398	13.7968
1.960000000 GHz	38.7044	13.8530
1.970000000 GHz	38.7919	13.9111
1.980000000 GHz	38.7682	13.9179
1.990000000 GHz	38.7198	13.8856
2.000000000 GHz	38.6404	13.8888

Dielectric Parameter (835MHz Muscle)

Title : SCP-500
SubTitle : 835 MHz Body
December 15, 2003 08:35 AM

Frequency	e'	e''
800.000000 MHz	54.3972	21.6634
805.000000 MHz	54.3687	21.6340
810.000000 MHz	54.2772	21.6160
815.000000 MHz	54.2906	21.5722
820.000000 MHz	54.2312	21.5434
825.000000 MHz	54.2303	21.5496
830.000000 MHz	54.1854	21.4937
835.000000 MHz	54.1193	21.4683
840.000000 MHz	54.0834	21.4321
845.000000 MHz	54.0194	21.4066
850.000000 MHz	53.9805	21.3286
855.000000 MHz	53.9257	21.3223
860.000000 MHz	53.8649	21.2969
865.000000 MHz	53.7921	21.2656
870.000000 MHz	53.7486	21.2237
875.000000 MHz	53.7055	21.2088
880.000000 MHz	53.6147	21.2335
885.000000 MHz	53.5166	21.2348
890.000000 MHz	53.4220	21.2140
895.000000 MHz	53.3526	21.1735
900.000000 MHz	53.3726	21.1719

Dielectric Parameter (1900MHz Muscle)

Title : SCP-500
SubTitle : 1900 MHz Body
December 16, 2003 08:38 AM

Frequency	e'	e''
1.700000000 GHz	52.7256	14.2660
1.710000000 GHz	52.7054	14.3116
1.720000000 GHz	52.6808	14.3717
1.730000000 GHz	52.6629	14.4190
1.740000000 GHz	52.6573	14.4161
1.750000000 GHz	52.6589	14.3889
1.760000000 GHz	52.6629	14.4070
1.770000000 GHz	52.5877	14.3672
1.780000000 GHz	52.5734	14.3897
1.790000000 GHz	52.5057	14.3811
1.800000000 GHz	52.4446	14.4038
1.810000000 GHz	52.4110	14.4651
1.820000000 GHz	52.3274	14.5369
1.830000000 GHz	52.2932	14.6173
1.840000000 GHz	52.2641	14.6756
1.850000000 GHz	52.2372	14.7213
1.860000000 GHz	52.2264	14.7459
1.870000000 GHz	52.1887	14.7870
1.880000000 GHz	52.1912	14.7857
1.890000000 GHz	52.1614	14.7626
1.900000000 GHz	52.1018	14.7450
1.910000000 GHz	52.0387	14.7457
1.920000000 GHz	51.9668	14.7549
1.930000000 GHz	51.9074	14.7679
1.940000000 GHz	51.8626	14.8147
1.950000000 GHz	51.7648	14.9108
1.960000000 GHz	51.7619	14.9558
1.970000000 GHz	51.7554	15.0332
1.980000000 GHz	51.7414	15.0925
1.990000000 GHz	51.7548	15.0796
2.000000000 GHz	51.7162	15.1087