

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: $\sigma = 1.43$

mho/m $\epsilon_r = 38.4$ $\rho = 1.00$ g/cm³

Cubes (2): SAR (1g): 41.2 mW/g ± 0.07 dB, SAR (10g): 21.1 mW/g ± 0.05 dB

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

Powerdrift: 0.04 dB

Comment:

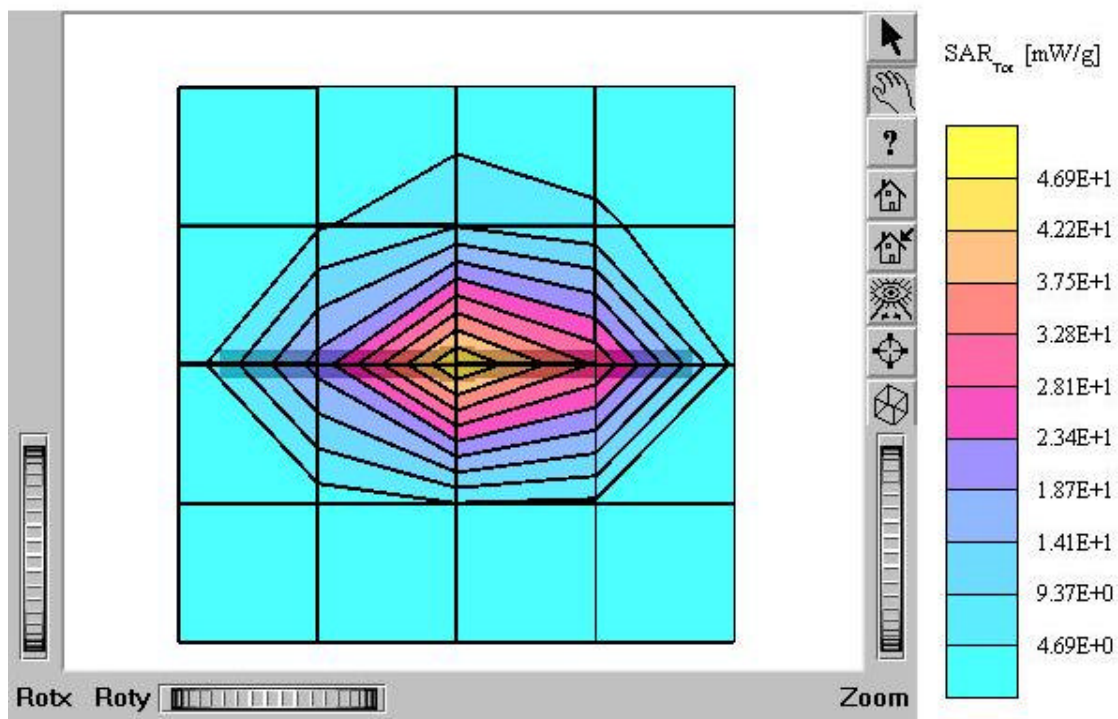
1900 MHz Brain Dipole Validation (D1900V2/ S.N: 5d032)

Antenna Input Power : 30 dBm (1W)

HCT Co., Ltd. Brain Tissue Simulating Liquid

Liquid Temperature: 21.2 °C

Date Tested : December 12, 2003



Dipole 1900 MHz

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

Comment:

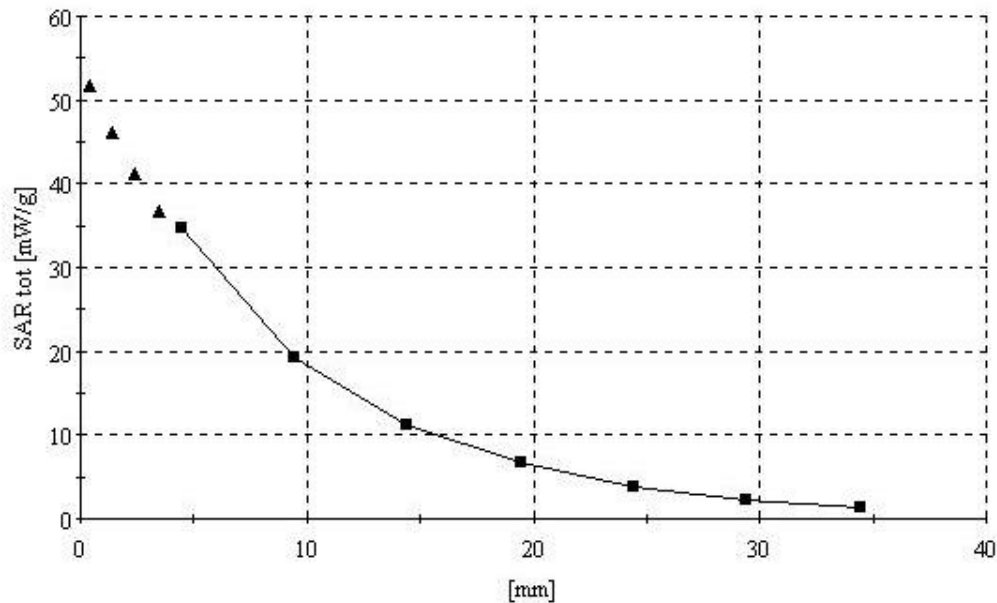
1900 MHz Brain Dipole Validation (D1900V2/ S.N: 5d032)

Antenna Input Power : 30 dBm (1W)

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Dielectric Parameter (1900MHz Brain)**Title : WS-4000****SubTitle : PCS CDMA Brain**

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Frequency	e'	e''
1.700000000 GHz	39.1896	13.0373
1.710000000 GHz	39.2189	13.1148
1.720000000 GHz	39.2835	13.1868
1.730000000 GHz	39.3598	13.2016
1.740000000 GHz	39.3391	13.2070
1.750000000 GHz	39.3207	13.1986
1.760000000 GHz	39.2334	13.1543
1.770000000 GHz	39.1060	13.1282
1.780000000 GHz	38.9800	13.1689
1.790000000 GHz	38.8167	13.1840
1.800000000 GHz	38.7294	13.2484
1.810000000 GHz	38.6841	13.3454
1.820000000 GHz	38.6897	13.3939
1.830000000 GHz	38.7497	13.4963
1.840000000 GHz	38.8065	13.5757
1.850000000 GHz	38.8180	13.5980
1.860000000 GHz	38.8539	13.6049
1.870000000 GHz	38.7862	13.5919
1.880000000 GHz	38.6952	13.5876
1.890000000 GHz	38.5814	13.5922
1.900000000 GHz	38.4317	13.5934
1.910000000 GHz	38.2850	13.6112
1.920000000 GHz	38.2040	13.6565
1.930000000 GHz	38.1296	13.7243
1.940000000 GHz	38.1441	13.7920
1.950000000 GHz	38.1858	13.8684
1.960000000 GHz	38.2235	13.9410
1.970000000 GHz	38.3017	13.9928
1.980000000 GHz	38.3062	14.0098
1.990000000 GHz	38.2357	13.9676
2.000000000 GHz	38.1428	13.9608

Dielectric Parameter (1900MHz Body)**Title : WS-4000****SubTitle : PCS CDMA Body**

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Frequency	e'	e''
1.700000000 GHz	52.7149	14.2526
1.710000000 GHz	52.6645	14.2970
1.720000000 GHz	52.6791	14.3694
1.730000000 GHz	52.6319	14.4077
1.740000000 GHz	52.6414	14.4144
1.750000000 GHz	52.6434	14.3834
1.760000000 GHz	52.6267	14.3897
1.770000000 GHz	52.5663	14.3633
1.780000000 GHz	52.5335	14.3724
1.790000000 GHz	52.4830	14.3713
1.800000000 GHz	52.4141	14.3935
1.810000000 GHz	52.3935	14.4402
1.820000000 GHz	52.3324	14.5217
1.830000000 GHz	52.2890	14.5704
1.840000000 GHz	52.2811	14.6826
1.850000000 GHz	52.2382	14.7060
1.860000000 GHz	52.1988	14.7556
1.870000000 GHz	52.1942	14.7605
1.880000000 GHz	52.1769	14.7695
1.890000000 GHz	52.1350	14.7573
1.900000000 GHz	52.1134	14.7418
1.910000000 GHz	52.0017	14.7287
1.920000000 GHz	51.9371	14.7458
1.930000000 GHz	51.8597	14.7431
1.940000000 GHz	51.8535	14.8086
1.950000000 GHz	51.7617	14.8957
1.960000000 GHz	51.7695	14.9524
1.970000000 GHz	51.7518	15.0294
1.980000000 GHz	51.7039	15.0486
1.990000000 GHz	51.7494	15.0775
2.000000000 GHz	51.6965	15.0878