

■ Validation Data (835MHz Brain)

Dipole 835 MHz

SAM II Phantom; Flat Section; Position: (90°, 90°); Frequency: 835 MHz

Probe: ET3DV6 - SN1609; ConvF(6.63,6.63,6.63); Crest factor: 1.0; Head 835 MHz: $\sigma = 0.89 \text{ mho/m}$, $\epsilon_r = 41.0$, $\rho = 1.00 \text{ g/cm}^3$

Cube 5x5x7: SAR (1g): 10.1 mW/g, SAR (10g): 6.50 mW/g

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

Powerdrift: -0.02 dB

Comment :

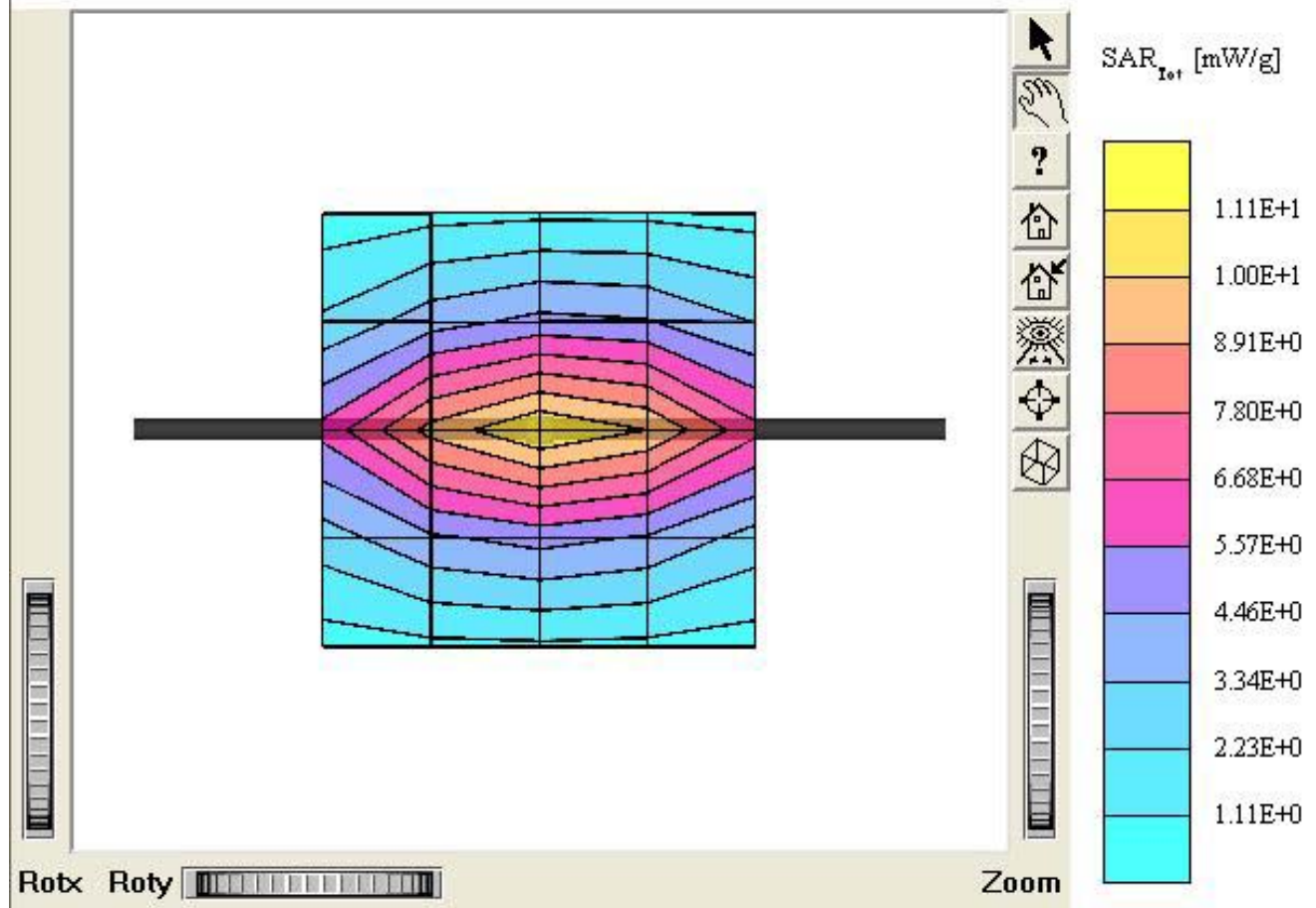
835MHz Brain Dipole Validation (D835V2/ S.N: 441)

Antenna Input Power: 30 dBm (1W)

HCT Co., Ltd. Brain Tissue Simulating Liquid

Liquid Temperature: 21.6°C

Date Tested : June 24, 2005



Validation Data (1900MHz Brain)

Dipole 1900 MHz

SAM I Phantom; Flat Section; Position: (90°,90°); Frequency: 1900 MHz

Probe: ET3DV6 - SN1609; ConvF(5.34,5.34,5.34); Crest factor: 1.0; Head 1900 MHz: $\sigma = 1.45 \text{ mho/m}$ $\epsilon_r = 39.0$

$\rho = 1.00 \text{ g/cm}^3$

Cube 5x5x7: SAR (1g): 41.3 mW/g, SAR (10g): 20.8 mW/g

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

Powerdrift: -0.01 dB

Comment :

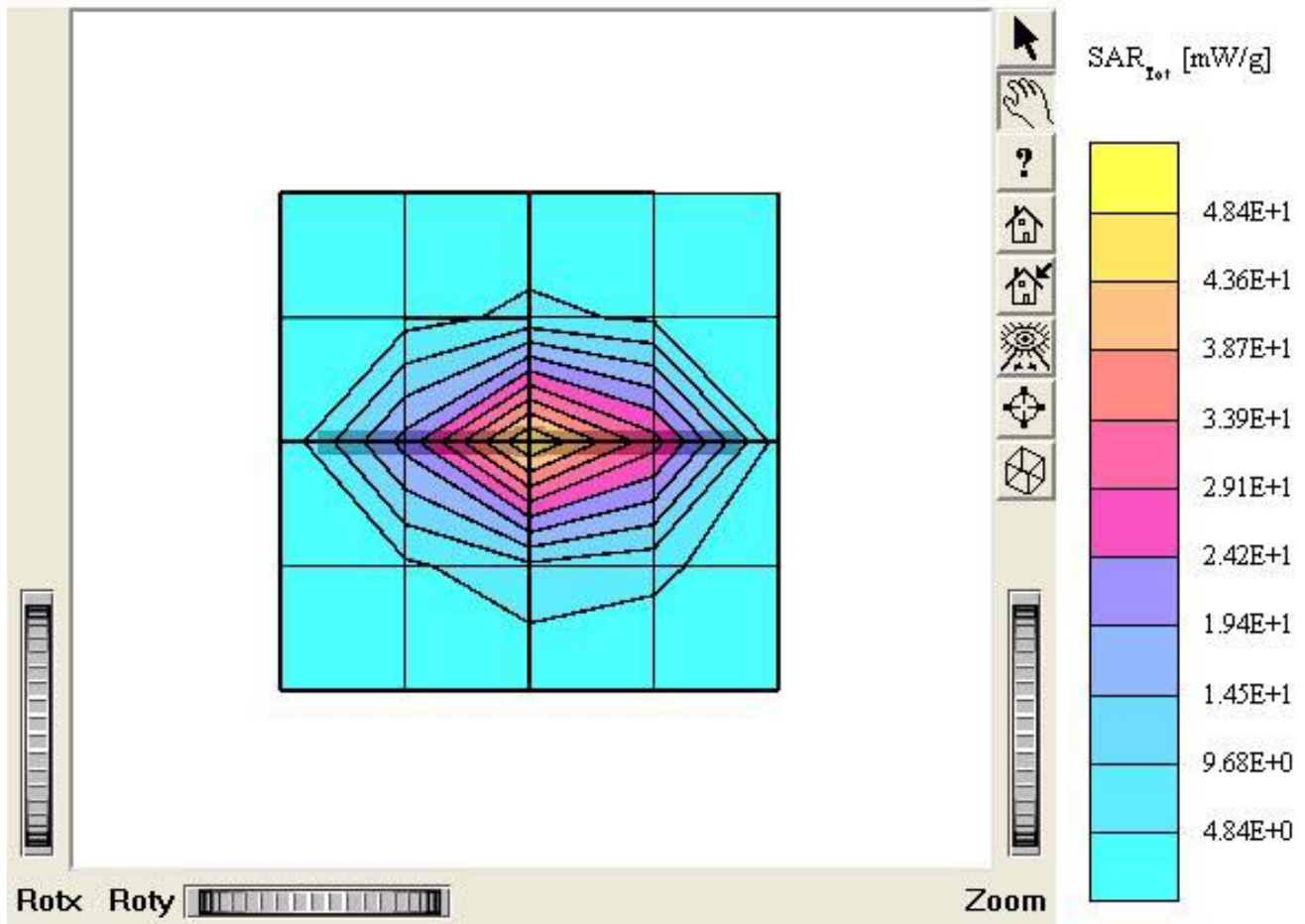
1900 MHz Brain Dipole Validation (D1900V2/ S.N: 5d032)

Antenna Input Power: 30 dBm (1 W)

HCT Co., Ltd. Brain Tissue Simulating Liquid

Liquid Temperature: 21.6°C

Date Tested : June 24, 2005



Dipole 835 MHz

SAM IIPhantom; Section; Position: ; Frequency: 835 MHz

Probe: ET3DV6 - SN1609; ConvF(6.63,6.63,6.63); Crest factor: 1.0; Head 835 MHz: $\sigma = 0.89 \text{ mho/m}$ $\epsilon_r = 41.0$ $\rho = 1.00 \text{ g/cm}^3$

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Z-Axis: $D_x = 0.0$, $D_y = 0.0$, $D_z = 5.0$

Comment :

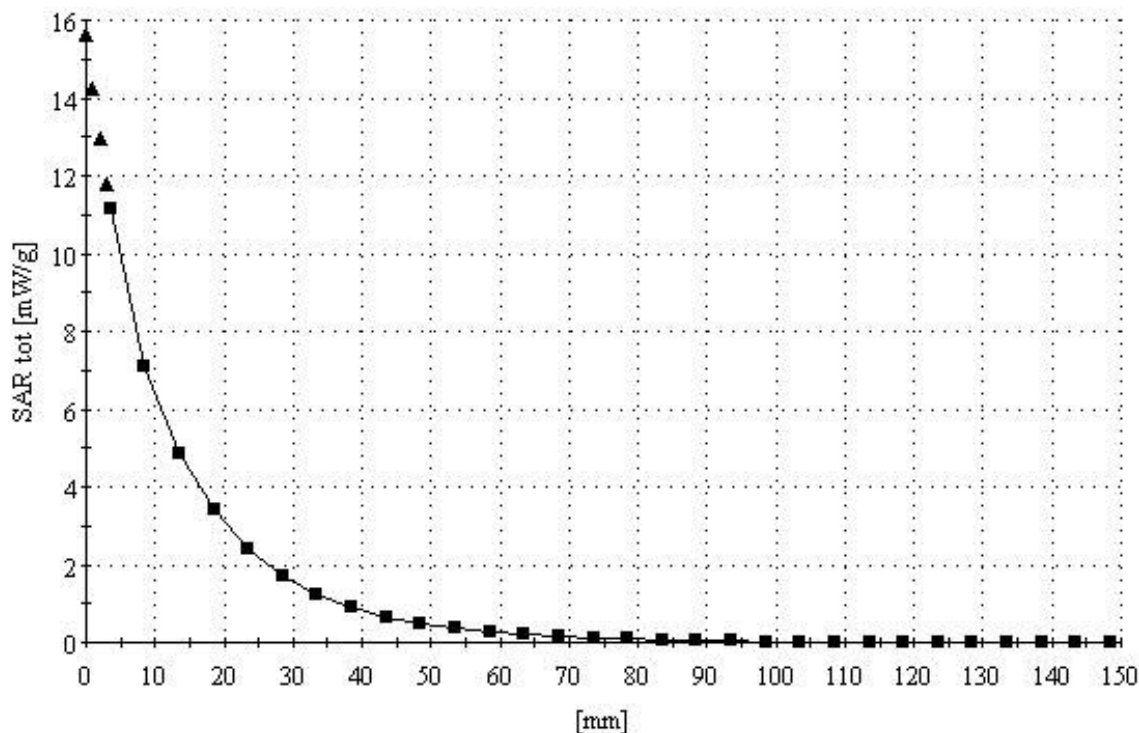
835MHz Brain Dipole Validation (D835V2/ S.N: 441)

Antenna Input Power: 30 dBm (1W)

HCT Co., Ltd. Brain Tissue Simulating Liquid

Liquid Temperature: 21.6°C

Date Tested : June 24, 2005



Dipole 1900 MHz

SAM I Phantom; Section; Position: ; Frequency: 1900 MHz

Probe: ET3DV6 - SN1609; ConvF(5.34,5.34,5.34); Crest factor: 1.0; Head 1900 MHz: $\sigma = 1.45 \text{ mho/m}$ $\epsilon_r = 39.0$ $\rho = 1.00 \text{ g/cm}^3$

:

Z-Axis: $D_x = 0.0$, $D_y = 0.0$, $D_z = 5.0$

Comment :

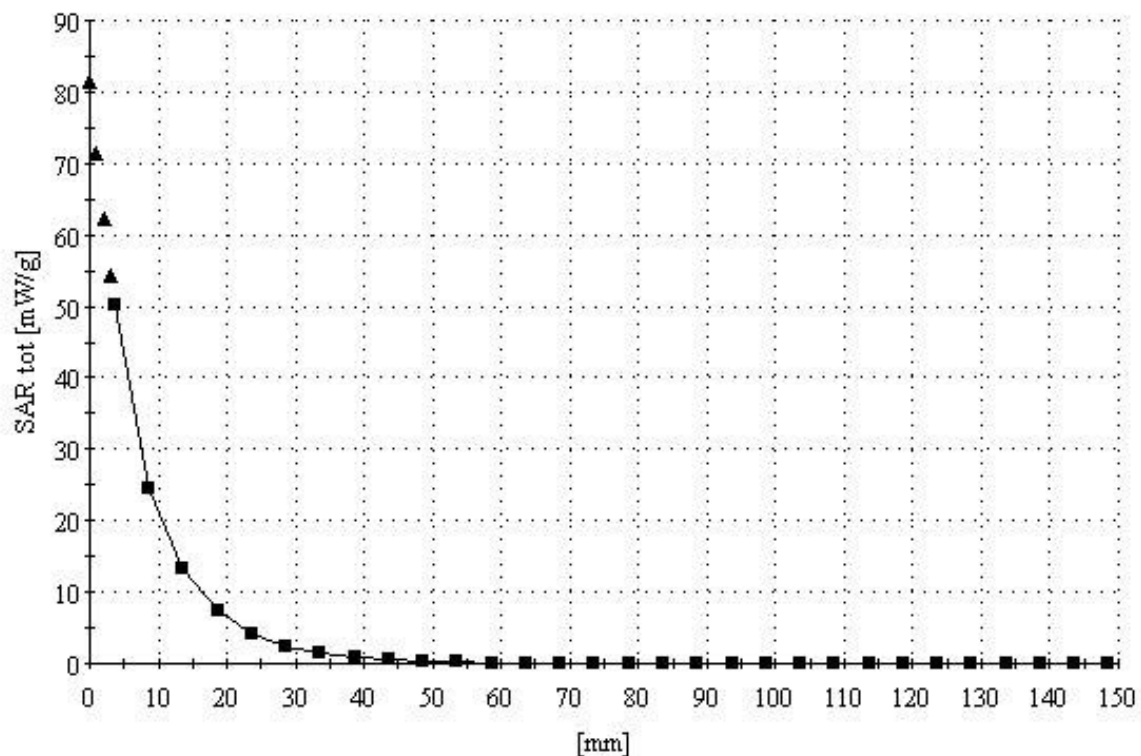
1900 MHz Brain Dipole Validation (D1900V2/ S.N: 54032)

Antenna Input Power: 30 dBm (1 W)

HCT Co., Ltd. Brain Tissue Simulating Liquid

Liquid Temperature: 21.6°C

Date Tested : June 24, 2005



■ Dielectric Parameter (835MHz Brain)

Title : C3000**SubTitle : AMPS CDMA Brain**

June 24, 2005 08:49 AM

Frequency	e'	e''
800.000000 MHz	41.8158	19.2785
805.000000 MHz	41.6469	19.2958
810.000000 MHz	41.4456	19.3439
815.000000 MHz	41.5080	19.0527
820.000000 MHz	41.3721	19.1326
825.000000 MHz	41.2813	19.0409
830.000000 MHz	41.1960	19.0806
835.000000 MHz	41.0232	19.1970
840.000000 MHz	41.0848	18.9450
845.000000 MHz	40.9686	18.8797
850.000000 MHz	40.9202	18.9411
855.000000 MHz	40.9016	18.9217
860.000000 MHz	40.7045	19.0655
865.000000 MHz	40.7326	18.8799
870.000000 MHz	40.6921	18.9182
875.000000 MHz	40.6084	18.9080
880.000000 MHz	40.5457	18.9323
885.000000 MHz	40.3489	18.9903
890.000000 MHz	40.3132	19.0119
895.000000 MHz	40.2756	18.8704
900.000000 MHz	40.2252	18.9213

■ Dielectric Parameter (1900MHz Brain)

Title : C3000
SubTitle : PCS Brain
June 24, 2005 10:27 AM

Frequency	e'	e''
1.800000000 GHz	37.8429	12.9151
1.810000000 GHz	38.9363	13.4507
1.820000000 GHz	39.2521	13.6197
1.830000000 GHz	39.2437	13.6978
1.840000000 GHz	39.2811	13.7594
1.850000000 GHz	38.2741	13.4263
1.860000000 GHz	38.4979	13.5474
1.870000000 GHz	39.1771	13.8097
1.880000000 GHz	39.0253	13.7999
1.890000000 GHz	39.0145	13.7651
1.900000000 GHz	38.9757	13.7748
1.910000000 GHz	38.8711	13.7582
1.920000000 GHz	38.8003	13.7651
1.930000000 GHz	38.7480	13.8227
1.940000000 GHz	38.7285	13.8742
1.950000000 GHz	38.6874	13.9541
1.960000000 GHz	38.5855	13.9733
1.970000000 GHz	38.5543	14.0412
1.980000000 GHz	38.6788	14.1308
1.990000000 GHz	38.4554	14.0696
2.000000000 GHz	36.4820	13.3104

■ Dielectric Parameter (835MHz Muscle)

Title : C3000**SubTitle : AMPS CDMA BODY**

June 24, 2005 03:32 PM

Frequency	e'	e''
800.000000 MHz	54.4562	20.9586
805.000000 MHz	54.3515	20.9142
810.000000 MHz	54.3297	20.9085
815.000000 MHz	54.2591	20.9203
820.000000 MHz	54.2814	20.8763
825.000000 MHz	54.2009	20.8696
830.000000 MHz	54.1688	20.9009
835.000000 MHz	54.1646	20.8995
840.000000 MHz	54.0864	20.9033
845.000000 MHz	54.1173	20.9324
850.000000 MHz	54.0376	20.9259
855.000000 MHz	54.0294	20.9037
860.000000 MHz	54.0194	20.9037
865.000000 MHz	53.9816	20.8282
870.000000 MHz	53.9160	20.9029
875.000000 MHz	53.8909	20.8285
880.000000 MHz	53.8209	20.7879
885.000000 MHz	53.7307	20.7609
890.000000 MHz	53.6462	20.7586
895.000000 MHz	53.5719	20.6583
900.000000 MHz	53.5286	20.6617

■ Dielectric Parameter (1900MHz Muscle)

Title : C3000**SubTitle : PCS BODY**

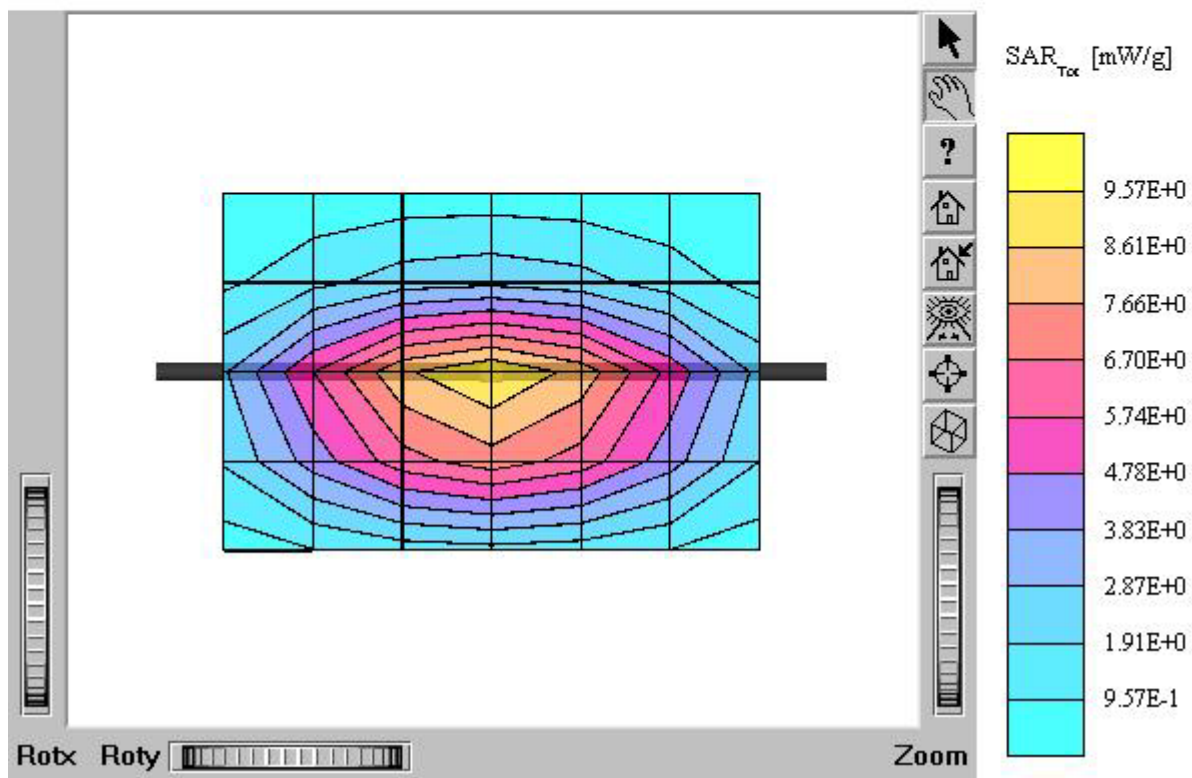
June 24, 2005 04:14 PM

Frequency	e'	e''
1.800000000 GHz	53.2497	13.8519
1.810000000 GHz	53.2374	13.9162
1.820000000 GHz	53.2353	13.9605
1.830000000 GHz	53.2030	13.9804
1.840000000 GHz	53.1833	13.9675
1.850000000 GHz	53.1771	13.9718
1.860000000 GHz	53.1198	13.9822
1.870000000 GHz	53.0748	14.0401
1.880000000 GHz	52.9961	14.1145
1.890000000 GHz	52.8874	14.1771
1.900000000 GHz	52.8266	14.2656
1.910000000 GHz	52.7453	14.3409
1.920000000 GHz	52.7109	14.4642
1.930000000 GHz	52.7295	14.5130
1.940000000 GHz	52.7249	14.5618
1.950000000 GHz	52.7291	14.6023
1.960000000 GHz	52.6795	14.6032
1.970000000 GHz	52.6679	14.6154
1.980000000 GHz	52.6372	14.6099
1.990000000 GHz	52.5826	14.6569
2.000000000 GHz	52.5020	14.6861

■ Validation Data (835MHz Brain)

Dipole 835 MHz

SAM II Phantom; Flat Section; Position: (90°,90°); Frequency: 835 MHz
Probe: ET3DV6 - SN1607; ConvF(6.22,6.22,6.22); Crest factor: 1.0; Head 835 MHz: $s = 0.88$
 mho/m $e_r = 42.1$ $r = 1.00$ g/cm^3
Cubes (2): SAR (1g): $9.91 \text{ mW/g} \pm 0.03 \text{ dB}$, SAR (10g): $6.32 \text{ mW/g} \pm 0.03 \text{ dB}$
Coarse: $D_x = 20.0$, $D_y = 20.0$, $D_z = 10.0$
Powerdrift: -0.24 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: 21.5°C
Date Tested : November 26, 2004



■ Validation Data (835MHz Brain)

Dipole 835 MHz

SAM II Phantom; Flat Section; Position: (90°,90°); Frequency: 835 MHz
Probe: ET3DV6 - SN1607; ConvF(6.22,6.22,6.22); Crest factor: 1.0; Head 835 MHz: $s = 0.88$
 mho/m $e_r = 42.4$ $r = 1.00$ g/cm^3
Cubes (2): SAR (1g): $9.90 \text{ mW/g} \pm 0.06 \text{ dB}$, SAR (10g): $6.31 \text{ mW/g} \pm 0.05 \text{ dB}$
Coarse: $D_x = 20.0$, $D_y = 20.0$, $D_z = 10.0$
Powerdrift: 0.03 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 : 21.9°C
Date Tested : November 27, 2004

