

ATTACHMENT Q – DIPOLE VALIDATION

■ Validation Data (835MHz Head)

Dipole 835 MHz

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

Probe: ET3DV6 - SN1798; ConvF(6.91,6.91,6.91); Crest factor: 1.0; Brain 835 MHz: $\sigma = 0.89$ mho/m $\epsilon_r = 42.4$ $\rho = 1.00$ g/cm³

Cubes (2): SAR (1g): 10.1 mW/g ± 0.03 dB, SAR (10g): 6.51 mW/g ± 0.04 dB

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

Powerdrift: -0.03 dB

Comment :

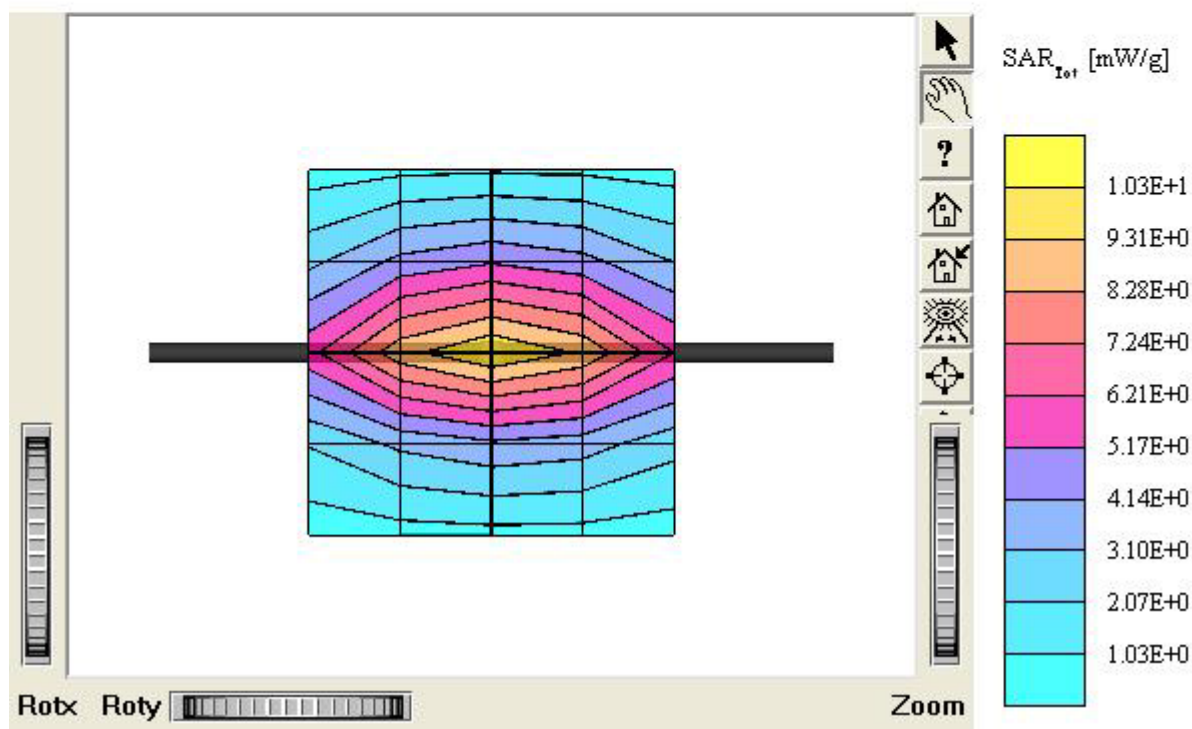
835MHz Brain Dipole Validation (D835V2/ S.N: 441)

Antenna Input Power: 30 dBm (1 W)

HCT Co., Ltd. Brain Tissue Simulating Liquid

Liquid Temperature : 21.7°C

Date Tested : November 14, 2005



Dipole 835 MHz

SAM I Phantom; Section; Position: ; Frequency: 835 MHz

Probe: ET3DV6 - SN1798; ConvF(6.91,6.91,6.91); Crest factor: 1.0; Brain 835 MHz: $\sigma = 0.89$ mho/m $\epsilon_r = 42.4$ $\rho = 1.00$ g/cm³

:

Z-Axis: Dx = 0.0, Dy = 0.0, Dz = 5.0

Comment :

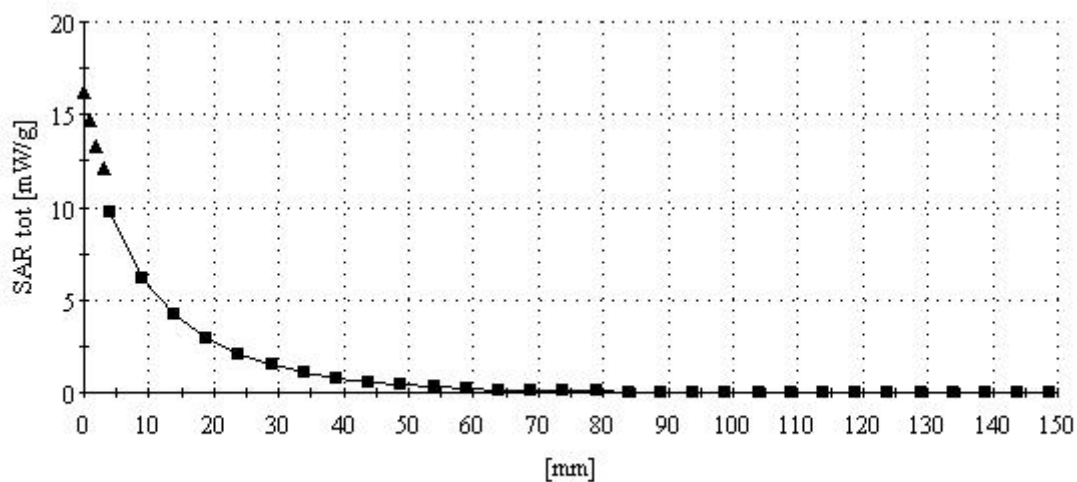
835MHz Brain Dipole Validation (D835V2/ S.N: 441)

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■ Dielectric Parameter (835MHz Head)

Title : PC-7130**SubTitle : CDMA835 HEAD**

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Frequency	e'	e''
800.000000 MHz	43.0928	19.1682
805.000000 MHz	42.9976	19.1629
810.000000 MHz	42.8898	19.1076
815.000000 MHz	42.7747	19.0982
820.000000 MHz	42.7352	19.1802
825.000000 MHz	42.6188	19.1184
830.000000 MHz	42.5536	19.1754
835.000000 MHz	42.4415	19.1559
840.000000 MHz	42.3489	19.1628
845.000000 MHz	42.3583	19.1927
850.000000 MHz	42.2515	19.2143
855.000000 MHz	42.1777	19.2369
860.000000 MHz	42.1267	19.2630
865.000000 MHz	42.1061	19.2494
870.000000 MHz	42.0562	19.2037
875.000000 MHz	41.9864	19.2254
880.000000 MHz	41.9790	19.1982
885.000000 MHz	41.9221	19.1557
890.000000 MHz	41.8909	19.1462
895.000000 MHz	41.8309	19.0557
900.000000 MHz	41.7882	19.0205

■ Dielectric Parameter (835MHz Body)

Title : PC-7130**SubTitle : CDMA835 BODY**

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Frequency	e'	e''
800.000000 MHz	54.2222	22.0107
805.000000 MHz	54.0489	21.7585
810.000000 MHz	53.8794	21.6102
815.000000 MHz	53.6720	21.4778
820.000000 MHz	53.5298	21.3189
825.000000 MHz	53.3598	21.2502
830.000000 MHz	53.2224	21.2209
835.000000 MHz	53.0812	21.1609
840.000000 MHz	53.0269	21.2460
845.000000 MHz	53.0179	21.2705
850.000000 MHz	52.9948	21.3432
855.000000 MHz	53.0190	21.4520
860.000000 MHz	53.0935	21.6059
865.000000 MHz	53.1556	21.7518
870.000000 MHz	53.2325	21.8475
875.000000 MHz	53.3537	21.9732
880.000000 MHz	53.4558	22.0882
885.000000 MHz	53.4925	22.1413
890.000000 MHz	53.4998	22.1571
895.000000 MHz	53.5284	22.1167
900.000000 MHz	53.4900	22.0391