

ATTACHMENT Q – DIPOLE VALIDATION

■ Validation Data (1900MHz Head)

Dipole 1900 MHz

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

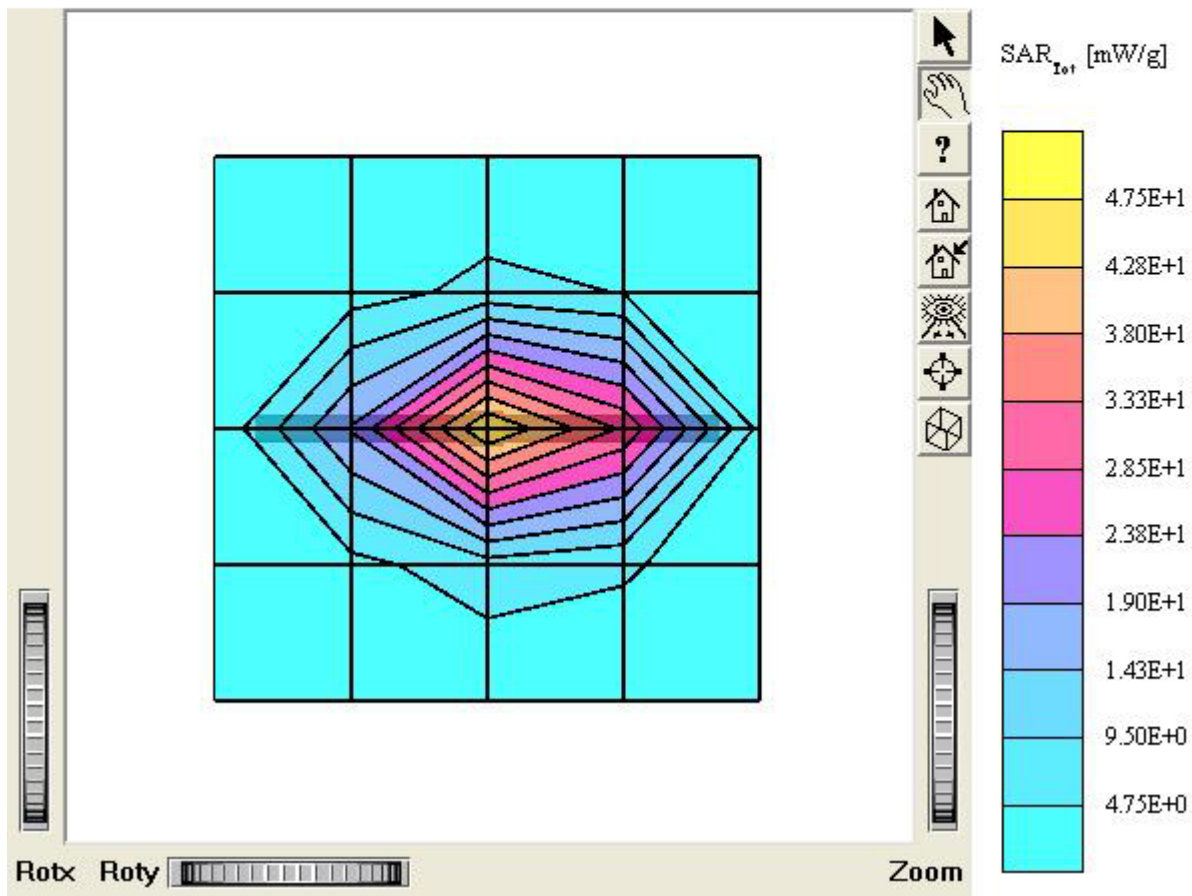
Probe: ET3DV6 - SN1609; ConvF(5.34,5.34,5.34); Crest factor: 1.0; Brain 1900 MHz: $\sigma = 1.44 \text{ mho/m}$ $\epsilon_r = 40.0 \rho = 1.00 \text{ g/cm}^3$

Cubes (2): SAR (1g): $41.1 \text{ mW/g} \pm 0.00 \text{ dB}$, SAR (10g): $20.6 \text{ mW/g} \pm 0.00 \text{ dB}$

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

Peak: $80.4 \text{ mW/g} \pm 0.00 \text{ dB}$; Powerdrift: 0.02 dB

Comment :



Dipole 1900 MHz

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

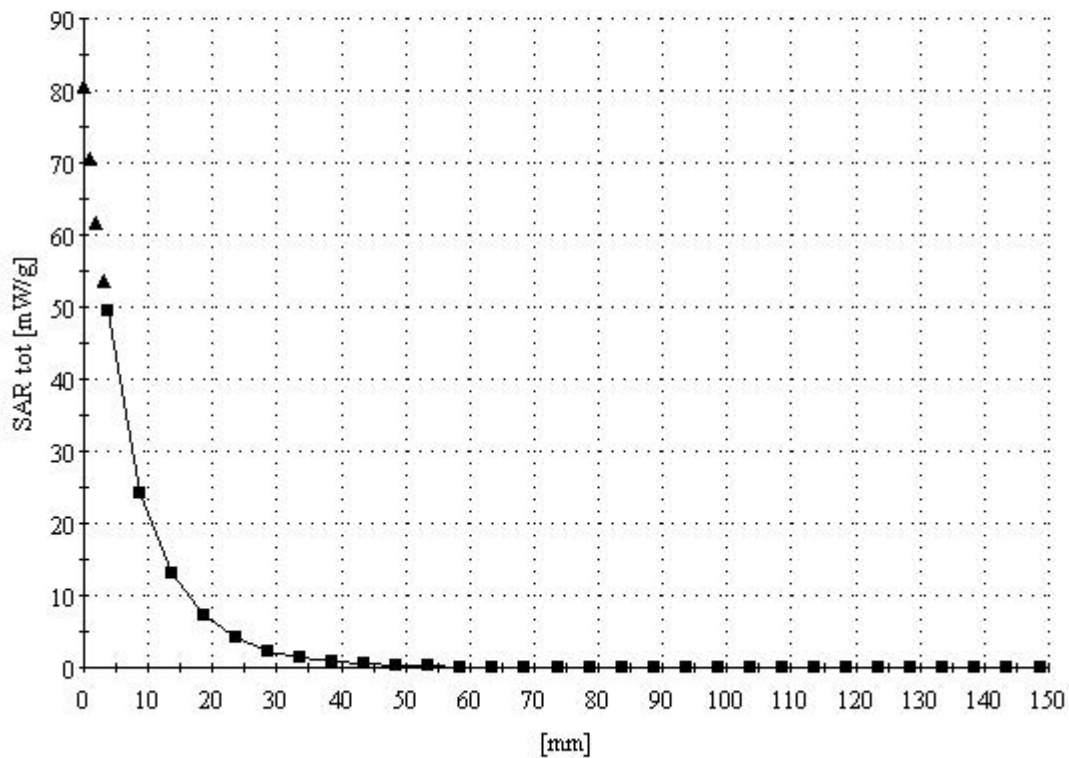
Probe: ET3DV6 - SN1609; ConvF(5.34,5.34,5.34); Crest factor: 1.0; Brain 1900 MHz: $\sigma = 1.44 \text{ mho/m}$ $\epsilon_r = 40.0$ $\rho = 1.00 \text{ g/cm}^3$

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

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Comment :



■ Dielectric Parameter (1900MHz Head)

Title : EZ300**SubTitle : GSM1900 Head****March 29, 2005 09:56 AM**

Frequency	e'	e''
1.8000000000 GHz	40.3582	13.2439
1.8100000000 GHz	40.2630	13.3141
1.8200000000 GHz	40.2435	13.3953
1.8300000000 GHz	40.2279	13.5287
1.8400000000 GHz	40.2356	13.6622
1.8500000000 GHz	40.2319	13.7598
1.8600000000 GHz	40.2082	13.8089
1.8700000000 GHz	40.2128	13.8337
1.8800000000 GHz	40.1408	13.7987
1.8900000000 GHz	40.0860	13.7141
1.9000000000 GHz	40.0262	13.6307
1.9100000000 GHz	39.9359	13.6010
1.9200000000 GHz	39.8181	13.5870
1.9300000000 GHz	39.7234	13.6154
1.9400000000 GHz	39.6895	13.6845
1.9500000000 GHz	39.6207	13.7974
1.9600000000 GHz	39.6449	13.9227
1.9700000000 GHz	39.6812	14.0456
1.9800000000 GHz	39.6774	14.1325
1.9900000000 GHz	39.6653	14.1211
2.0000000000 GHz	39.6430	14.1196

■ Dielectric Parameter (1900MHz Body)**Title : EZ300****SubTitle : GSM1900 Body****March 29, 2005 01:29 PM**

Frequency	e'	e''
1.800000000 GHz	53.0107	13.6011
1.810000000 GHz	52.9900	13.7030
1.820000000 GHz	52.9631	13.8031
1.830000000 GHz	52.9195	13.8853
1.840000000 GHz	52.9056	13.9488
1.850000000 GHz	52.8566	14.0110
1.860000000 GHz	52.8328	14.0583
1.870000000 GHz	52.8035	14.0890
1.880000000 GHz	52.7384	14.1379
1.890000000 GHz	52.6596	14.1455
1.900000000 GHz	52.6386	14.1589
1.910000000 GHz	52.6009	14.1916
1.920000000 GHz	52.5610	14.2627
1.930000000 GHz	52.5590	14.3567
1.940000000 GHz	52.5102	14.4404
1.950000000 GHz	52.4902	14.5445
1.960000000 GHz	52.4118	14.5955
1.970000000 GHz	52.3890	14.6342
1.980000000 GHz	52.3826	14.6577
1.990000000 GHz	52.3078	14.7361
2.000000000 GHz	52.2746	14.7317