

SYSTEM VALIDATION DATA

Ambient temperature (°C): 20.2

Date: January 27, 2002

Relative Humidity (%): 55

Measured By: Sunny Shih

Liquid depth (cm): 15.1

Dipole: D1800V2 S/N: 294

Liquid	Liquid Temp [°C]	Parameters	Target Value	Measured Value	Deviation [%]	Limit [%]
Head 1800 MHz	19.2	e	40	40.6	+1.50	± 5
		s	1.4	1.437	+2.64	± 5
	19.3	1 g SAR	38.1	38.6	+1.31	± 10

IEEE SCC-34/SC-2 P1528 RECOMMENDED TISSUE DIELECTRIC PARAMETERS

Target Frequency	Head		Body	
(MHz)	ϵ_r	σ (S/m)	ϵ_r	σ (S/m)
150	52.3	0.76	61.9	0.80
300	45.3	0.87	58.2	0.92
450	43.5	0.87	56.7	0.94
835	41.5	0.90	55.2	0.97
900	41.5	0.97	55.0	1.05
915	41.5	0.98	55.0	1.06
1450	40.5	1.20	54.0	1.30
1610	40.3	1.29	53.8	1.40
1800-2000	40.0	1.40	53.3	1.52
2450	39.2	1.80	52.7	1.95
3000	38.5	2.40	52.0	2.73
5800	45.3	5.27	48.2	6.00

(ϵ_r = relative permittivity, σ = conductivity and ρ = 1000 kg/m³)

IEEE P1528 RECOMMENDED REFERENCE VALUE

Frequency (MHz)	1 g SAR	10 g SAR	Local SAR at surface (Above feed point)	Local SAR at surface (y=2cm offset from feed point)
900	10.8	6.9	16.4	5.4
1800	38.1	19.8	69.5	6.8

1/27/02

System Validation (Dipole: D1800V2 S/N: 294)

(Output power: 250 mW)

Generic Twin Phantom; Flat Section; Position: (90°,90°); Frequency: 1800 MHz

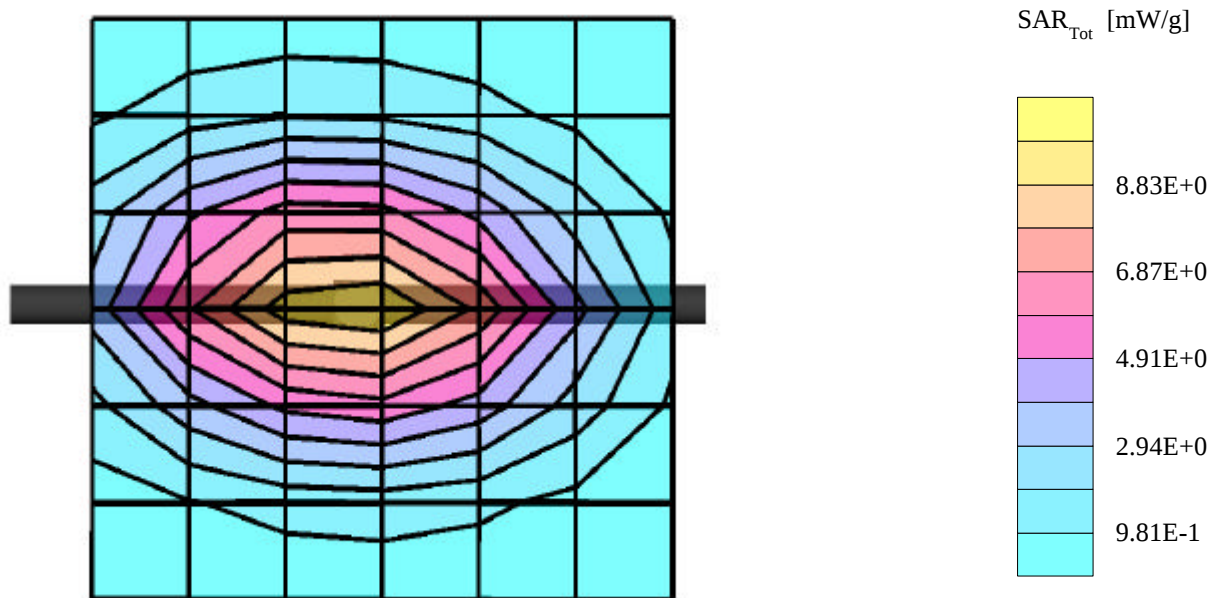
Probe: ET3DV6 - SN1577; ConvF(5.86,5.86,5.86); Crest factor: 1.0; Head 1900 MHz: $\sigma = 1.44$ mho/m $\epsilon_r = 40.6$ $\rho = 1.00$ g/cm³

Cube 5x5x7: SAR (1g): 9.65 mW/g, SAR (10g): 5.02 mW/g, (Worst-case extrapolation)

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

Powerdrift: -0.03 dB

Liquid Temperature: 19.3°C



System Validation (Dipole: D1800V2 S/N: 294)

(Output power: 250 mW)

Generic Twin Phantom; Section; Position: ; Frequency: 1800 MHz
Probe: ET3DV6 - SN1577; ConvF(5.86,5.86,5.86); Crest factor: 1.0; Head 1900 MHz: $\sigma = 1.44 \text{ mho/m}$ $\epsilon_r = 40.6$ $\rho = 1.00 \text{ g/cm}^3$
 $\therefore, 0$
Z-Axis: Dx = 0.0, Dy = 0.0, Dz = 2.0

Liquid Temperature: 19.3°C

