

## 12. SYSTEM VERIFICATION

### Tissue Verification

Table 12.1 Simulated Tissue Verification

MEASURED TISSUE PARAMETERS									
Date(s)	03/25/02	1900MHz Brain			1900MHz Muscle		2450MHz Brain		2450MHz Muscle
Liquid Temperature (°C)	21.8	Target	Measured	Target	Measured	Target	Measured	Target	Measured
Dielectric Constant: $\epsilon$	40.00	N/A	53.30	N/A	39.20	39.4	52.70	52.00	
Conductivity: $\sigma$	1.400	N/A	1.520	N/A	1.800	1.880	1.950	1.92	

### Test System Validation

Prior to assessment, the system is verified to the  $\pm 10\%$  of the specifications at 2450MHz by using the system validation kit(s). (Graphic Plots Attached)

Table 12.2 System Validation

SYSTEM DIPOLE VALIDATION TARGET & MEASURED (0.250 W)				
System Validation Kit: D-835S, S/N: 103	835MHz Brain	Targeted SAR <sub>1g</sub> (mW/g) 2.375	Measured SAR <sub>1g</sub> (mW/g) N/A	Deviation (%) N/A
System Validation Kit: D-1900S, S/N: 104	1900MHz Brain	Targeted SAR <sub>1g</sub> (mW/g) 9.925	Measured SAR <sub>1g</sub> (mW/g) N/A	Deviation (%) N/A
System Validation Kit: D-2450S, S/N: 105	2450MHz Brain	Targeted SAR <sub>1g</sub> (mW/g) 13.100	Measured SAR <sub>1g</sub> (mW/g) 13.0	Deviation (%) - 0.8

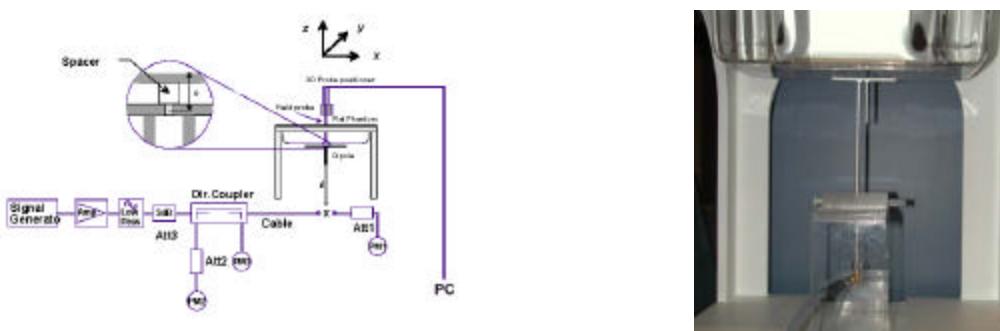


Figure 12.1 Dipole Validation Test Setup

PCTEST® SAR TEST REPORT	PCTEST®	FCC CERTIFICATION	Panasonic®	Reviewed by: Quality Manager
SAR Filename: SAR.22040424182.ACJ	Test Dates: May 13-14, 2002	EUT Type: 2.4 GHz Cordless Telephone	FCC ID: ACJ96NKX-TG2382	Page 16 of 26