

11. MEASUREMENT UNCERTAINTIES

a	b	c	d	e= f(d,k)	f	g	h = cxf/e	i = cxg/e	k
Uncertainty Component	Sec.	Tol. (± %)	Prob. Dist.	Div.	c _i (1 - g)	c _i (10 - g)	1 - g u _i (± %)	10 - g u _i (± %)	v _i
Measurement System									
Probe Calibration	E1.1	3.0	N	1	1	1	3.0	3.0	∞
Axial Isotropy	E1.2	4.88	R	√3	0.5	0.5	2.8	2.8	∞
Hemishperical Isotropy	E1.2	9.6	R	√3	0.5	0.5	5.5	5.5	∞
Boundary Effect	E1.3	11.0	R	√3	1	1	6.4	6.4	∞
Linearity	E1.4	4.7	R	√3	1	1	2.7	2.7	∞
System Detection Limits	E1.5	1.0	R	√3	1	1	0.6	0.6	∞
Readout Electronics	E1.6	1.0	R	1	1	1	1.0	1.0	∞
Response Time	E1.7	0.8	R	√3	1	1	0.5	0.5	∞
Integration Time	E1.8	1.7	R	√3	1	1	1.0	1.0	∞
RF Ambient Conditions	E5.1	1.2	R	√3	1	1	0.7	0.7	∞
Probe Positioner Mechanical Tolerance	E5.2	0.4	R	√3	1	1	0.2	0.2	∞
Probe Positioning w/ respect to Phantom	E5.3	2.9	R	√3	1	1	1.7	1.7	∞
Extrapolation, Interpolation & Integration Algorithms for Max. SAR Evaluation	E4.2	3.9	R	√3	1	1	2.3	2.3	∞
Test Sample Related									
Test Sample Positioning	E3.2.1	10.6	R	√3	1	1	6.1	6.1	11
Device Holder Uncertainty	E3.1.1	8.7	R	√3	1	1	5.0	5.0	8
Output Power Variation - SAR drift measurement	5.6.2	5.0	R	√3	1	1	2.9	2.9	∞
Phantom & Tissue Parameters									
Phantom Uncertainty (Shape & Thickness tolerances)	E2.1	4.0	R	√3	1	1	2.3	2.1	∞
Liquid Conductivity - deviation from target values	E2.2	5.0	R	√3	0.7	0.5	2.0	1.4	∞
Liquid Conductivity - measurement uncertainty	E2.2	10.0	R	√3	0.7	0.5	4.0	2.9	∞
Liquid Permittivity - deviation from target values	E2.2	5.0	R	√3	0.6	0.5	1.7	1.4	∞
Liquid Permittivity - measurement uncertainty	E2.2	5.0	R	√3	0.6	0.5	1.7	1.4	∞
Combined Standard Uncertainty (k=1)			RSS				14.5	14.0	
Expanded Uncertainty (k=2) (95% CONFIDENCE LEVEL)							29.0	28.0	

The above measurement uncertainties are according to IEEE Std. 1528-200x (July, 2001)

PCTEST™ SAR REPORT	 FCC CERTIFICATION 			Reviewed by: Quality Manager
SAR Filename: SAR-220423185.CJ6	Test Dates: Apr. 23-26 & 30, 2002	Phone Type: Tri-Mode Dual-Band	FCC ID: CJ6DCE46036A	Page 15 of 38