

Table of Measurement Uncertainty Values of SAR Evaluations

<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>e = f(d,k)</i>	<i>f</i>	<i>g = c x f / e</i>	<i>k</i>
Uncertainty Component	Sec.	Tol. (± %)	Prob. Dist.	Div.	<i>c_i</i> (1-g)	1-g <i>u_i</i> (±%)	<i>v_i</i>
Measurement System							
Probe Calibration	E2.1	3.6	N	1	1	3.6	∞
Axial Isotropy	E2.2	4.23	R	√3	(1-cp) ^{1/2}	0.00	∞
Hemispherical Isotropy	E2.2	10.7	R	√3	√c _p	6.18	∞
Boundary Effect	E2.3	1.7	R	√3	1	0.98	∞
Linearity	E2.4	2.92	R	√3	1	1.69	∞
System Detection Limits	E2.5	0.00	R	√3	1	0.00	∞
Readout Electronics	E2.6	0.00	N	1	1	0.00	∞
Response Time	E2.7	0.00	R	√3	1	0.00	∞
Integration Time	E2.8	0.4	R	√3	1	0.23	∞
RF Ambient Conditions	E6.1	0.00	R	√3	1	0.00	∞
Probe Positioner Mechanical Tolerance	E6.2	0.57	R	√3	1	0.33	∞
Probe Positioning with respect to Phantom Shell	E6.3	1.43	R	√3	1	0.83	∞
Extrapolation, interpolation and Integration Algorithms for Max. SAR Evaluation	E5.2	3.6	R	√3	1	2.08	∞
Test sample Related							
Test Sample Positioning	E4.2	4.81	N	1	1	4.81	29
Device Holder Uncertainty	E4.1	0.00	N	1	1	0.00	0
Output Power Variation - SAR drift measurement	6.6.2	5.0	R	√3	1	2.89	∞
Phantom and Tissue Parameters							
Phantom Uncertainty (shape and thickness tolerances)	E3.1	1.43	R	√3	1	0.83	∞
Liquid Conductivity Target - tolerance	E3.2	5.0	R	√3	0.7	2.02	∞
Liquid Conductivity - measurement uncertainty	E3.3	2.0	R	√3	0.7	0.81	∞
Liquid Permittivity Target tolerance	E3.2	5.0	R	√3	0.6	1.73	∞
Liquid Permittivity - measurement uncertainty	E3.3	1.0	R	√3	0.6	0.35	∞
Combined Standard Uncertainty			RSS			± 10.0%	
Expanded Uncertainty (95% CONFIDENCE INTERVAL)			<i>k</i> = 2.00705			± 20.1%	

When there is more than one tolerance for an item the highest tolerance is listed in the table above.