

DASY/EASY - Parameters of Probe: EX3DV4 - SN: 3962

Calibration Parameter Determined in Body Tissue Simulating Media

f [MHz] ^C	Relative Permittivity ^F	Conductivity (S/m) ^F	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unct. (k=2)
750	55.5	0.96	10.34	10.34	10.34	0.40	0.80	±12.1%
835	55.2	0.97	9.92	9.92	9.92	0.19	1.38	±12.1%
1750	53.4	1.49	8.30	8.30	8.30	0.27	1.02	±12.1%
1900	53.3	1.52	8.02	8.02	8.02	0.24	1.14	±12.1%
2300	52.9	1.81	7.82	7.82	7.82	0.62	0.79	±12.1%
2450	52.7	1.95	7.70	7.70	7.70	0.69	0.75	±12.1%
2600	52.5	2.16	7.51	7.51	7.51	0.65	0.75	±12.1%
5250	48.9	5.36	5.10	5.10	5.10	0.50	1.45	±13.3%
5600	48.5	5.77	4.33	4.33	4.33	0.55	1.55	±13.3%
5750	48.3	5.94	4.43	4.43	4.43	0.55	1.35	±13.3%

^c Frequency validity above 300 MHz of ±100MHz only applies for DASY v4.4 and higher (Page 2), else it is restricted to ±50MHz. The uncertainty is the RSS of ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Above 5 GHz frequency validity can be extended to ± 110 MHz.

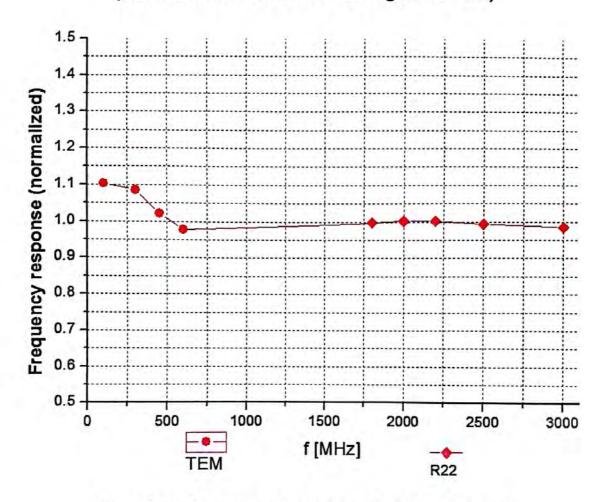
Certificate No: Z19-60038

F At frequency below 3 GHz, the validity of tissue parameters (ϵ and σ) can be relaxed to ±10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ϵ and σ) is restricted to ±5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

^G Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for the frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.



Frequency Response of E-Field (TEM-Cell: ifi110 EXX, Waveguide: R22)



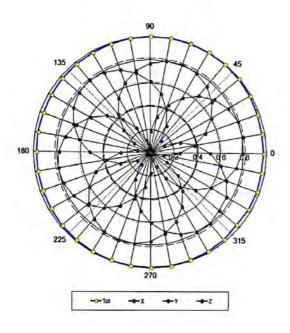
Uncertainty of Frequency Response of E-field: ±7.4% (k=2)

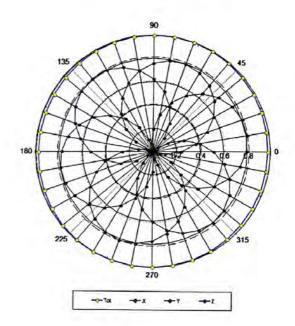


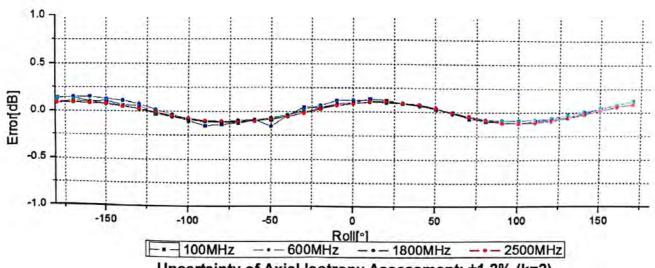
Receiving Pattern (Φ), θ=0°

f=600 MHz, TEM

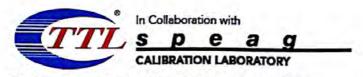
f=1800 MHz, R22



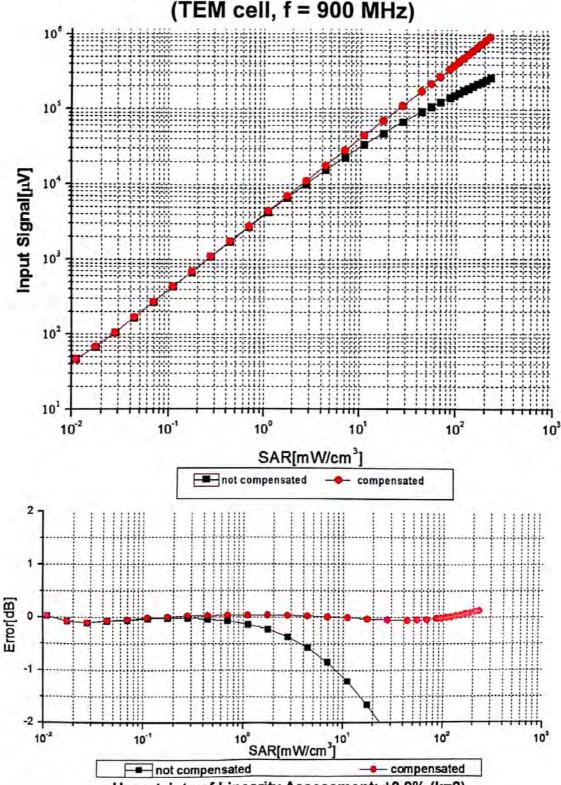




Uncertainty of Axial Isotropy Assessment: ±1.2% (k=2)



Dynamic Range f(SAR_{head}) (TEM cell, f = 900 MHz)



Uncertainty of Linearity Assessment: ±0.9% (k=2)

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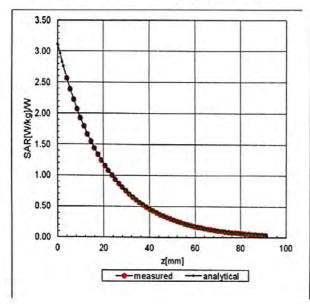
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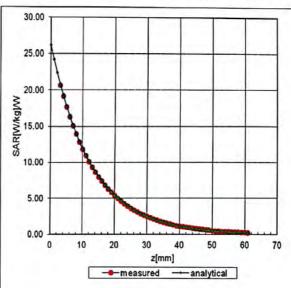


Conversion Factor Assessment

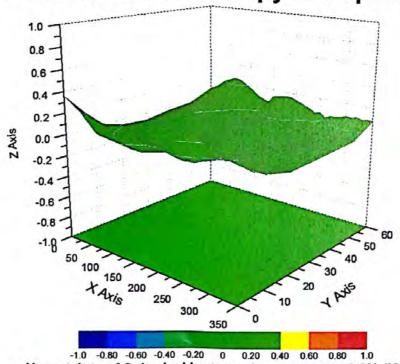
f=750 MHz, WGLS R9(H_convF)

f=1750 MHz, WGLS R22(H_convF)





Deviation from Isotropy in Liquid



Uncertainty of Spherical Isotropy Assessment: ±3.2% (K=2)



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Other Probe Parameters

Sensor Arrangement	Triangular		
Connector Angle (°)	151.2		
Mechanical Surface Detection Mode	enabled		
Optical Surface Detection Mode	disable		
Probe Overall Length	337mm		
Probe Body Diameter	10mm		
Tip Length	9mm		
Tip Diameter	2.5mm		
Probe Tip to Sensor X Calibration Point	1mm		
Probe Tip to Sensor Y Calibration Point	1mm		
Probe Tip to Sensor Z Calibration Point	1mm		
Recommended Measurement Distance from Surface	1.4mm		