

Parameters of Probe: EX3DV4 - SN:7351

Calibration Parameter Determined in HSL

f (MHz) ^C	Relative Permittivity ^F	Conductivity ^F (S/m)	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unc ^H (k = 2)
750	41.9	0.89	9.41	9.44	10.37	0.37	1.27	±11.0%
835	41.5	0.90	9.11	9.14	10.04	0.37	1.27	±11.0%
900	41.5	0.97	8.90	8.93	9.82	0.37	1.27	±11.0%
1450	40.5	1.20	7.64	7.66	8.42	0.37	1.27	±11.0%
1640	40.2	1.31	7.41	7.43	8.17	0.37	1.27	±11.0%
1750	40.1	1.37	7.79	7.82	8.59	0.37	1.27	±11.0%
1900	40.0	1.40	7.41	7.44	8.18	0.37	1.27	±11.0%
2000	40.0	1.40	7.49	7.51	8.26	0.37	1.27	±11.0%
2300	39.5	1.67	7.34	7.36	8.09	0.37	1.27	±11.0%
2450	39.2	1.80	6.91	6.93	7.62	0.37	1.27	±11.0%
2600	39.0	1.96	7.05	7.07	7.78	0.37	1.27	±11.0%
3300	38.2	2.71	6.53	6.55	7.20	0.37	1.27	±13.1%
3500	37.9	2.91	6.44	6.46	7.10	0.37	1.27	±13.1%
3700	37.7	3.12	6.40	6.42	7.06	0.37	1.27	±13.1%
3900	37.5	3.32	6.52	6.54	7.19	0.37	1.27	±13.1%
4100	37.2	3.53	6.47	6.49	7.13	0.37	1.27	±13.1%
4200	37.1	3.63	6.22	6.24	6.86	0.37	1.27	±13.1%
4400	36.9	3.84	6.09	6.11	6.71	0.37	1.27	±13.1%
4600	36.7	4.04	5.97	5.99	6.58	0.38	1.27	±13.1%
4800	36.4	4.25	6.06	6.08	6.68	0.38	1.27	±13.1%
4950	36.3	4.40	5.99	6.01	6.60	0.36	1.27	±13.1%
5250	35.9	4.71	5.59	5.61	6.16	0.33	1.27	±13.1%
5600	35.5	5.07	5.22	5.24	5.75	0.29	1.27	±13.1%
5750	35.4	5.22	5.18	5.20	5.71	0.28	1.27	±13.1%
5850	35.2	5.32	5.26	5.27	5.79	0.27	1.27	±13.1%

^C Frequency validity above 300 MHz of ±100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ±50 MHz. The uncertainty is the RSS of the 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. Validity of ConvF assessed at 6 MHz is 4–9 MHz, and ConvF assessed at 13 MHz is 9–19 MHz. Above 5 GHz frequency validity can be extended to ±110 MHz.

^F The probes are calibrated using tissue simulating liquids (TSL) that deviate for ϵ and σ by less than ±5% from the target values (typically better than ±3%) and are valid for TSL with deviations of up to ±10% if SAR correction is applied.

^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 frequencies between 3–6 GHz at any distance larger than half the probe tip diameter from the boundary.

^H The stated uncertainty is the total calibration uncertainty (k = 2) of Norm-ConvF. This is equivalent to the uncertainty component with the symbol CF in Table 9 of IEC/IEEE 62209-1528:2020.

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6500	34.5	6.07	5.21	5.23	5.75	0.20	1.27	±18.6%

^C Frequency validity is -600/+700 MHz at 6.5 GHz, ±700 MHz at or above 7 GHz, and ±150 MHz at 9.85 GHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band.

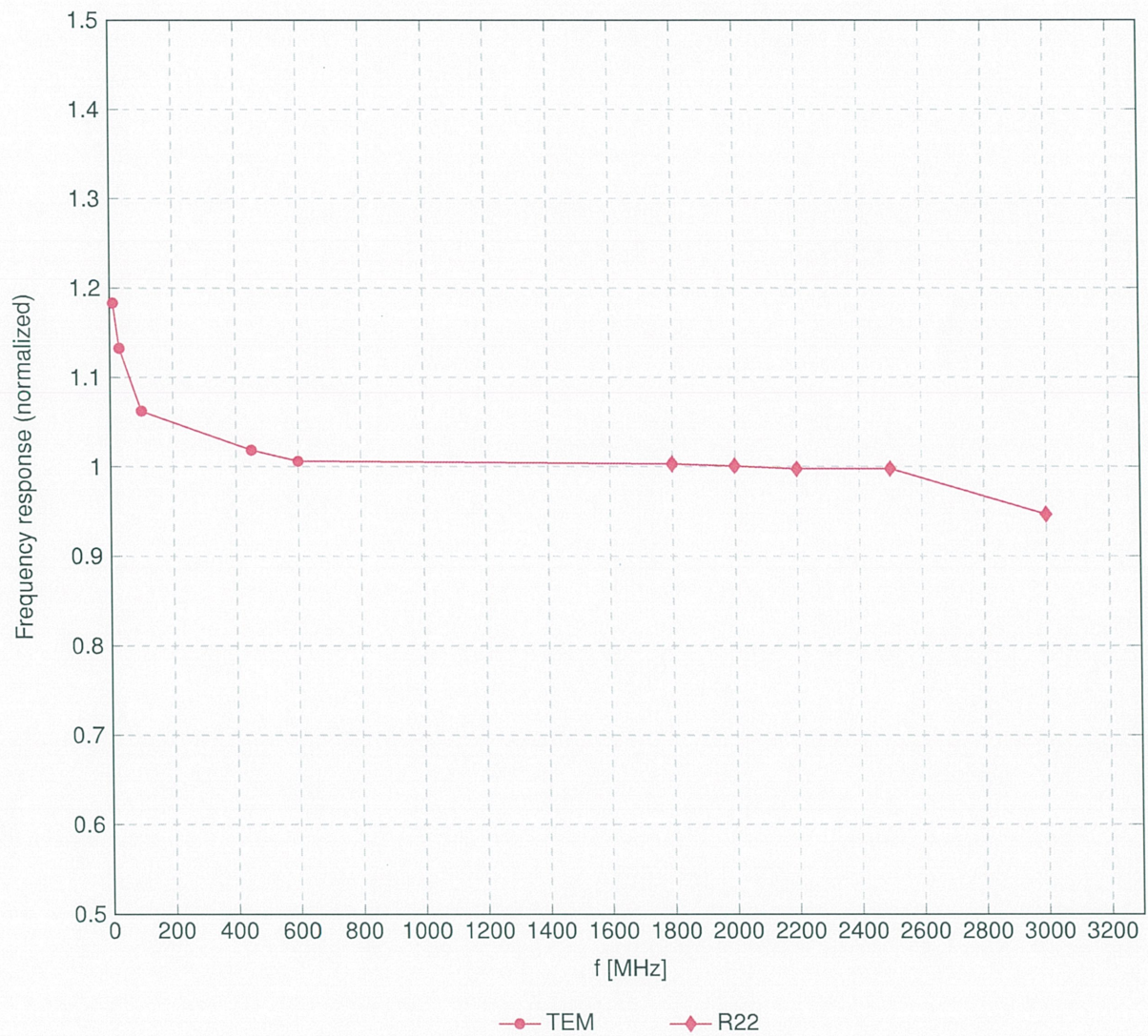
^F The probes are calibrated using tissue simulating liquids (TSL) that deviate for ϵ and σ by less than ±10% from the target values (typically better than ±6%) and are valid for TSL with deviations of up to ±10%.

^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; below ±2% for frequencies between 3–6 GHz; and below ±4% for frequencies between 6–10 GHz at any distance larger than half the probe tip diameter from the boundary.

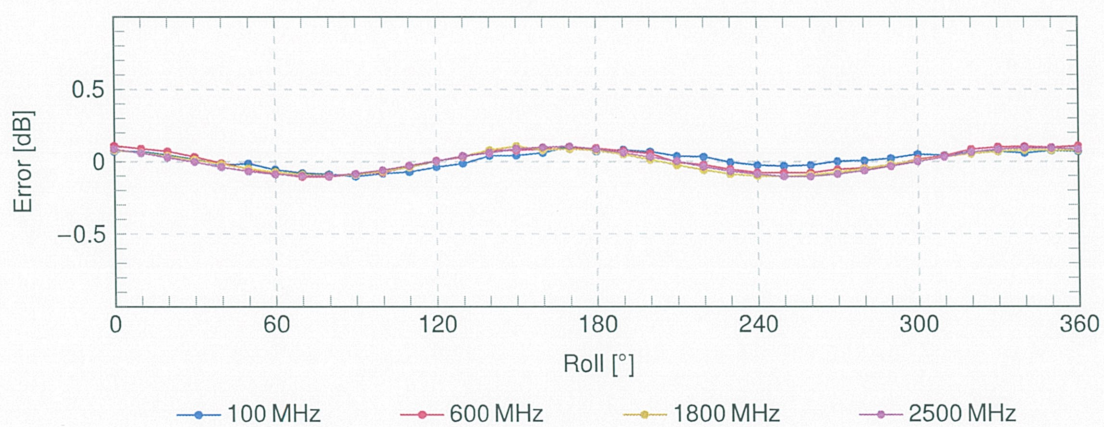
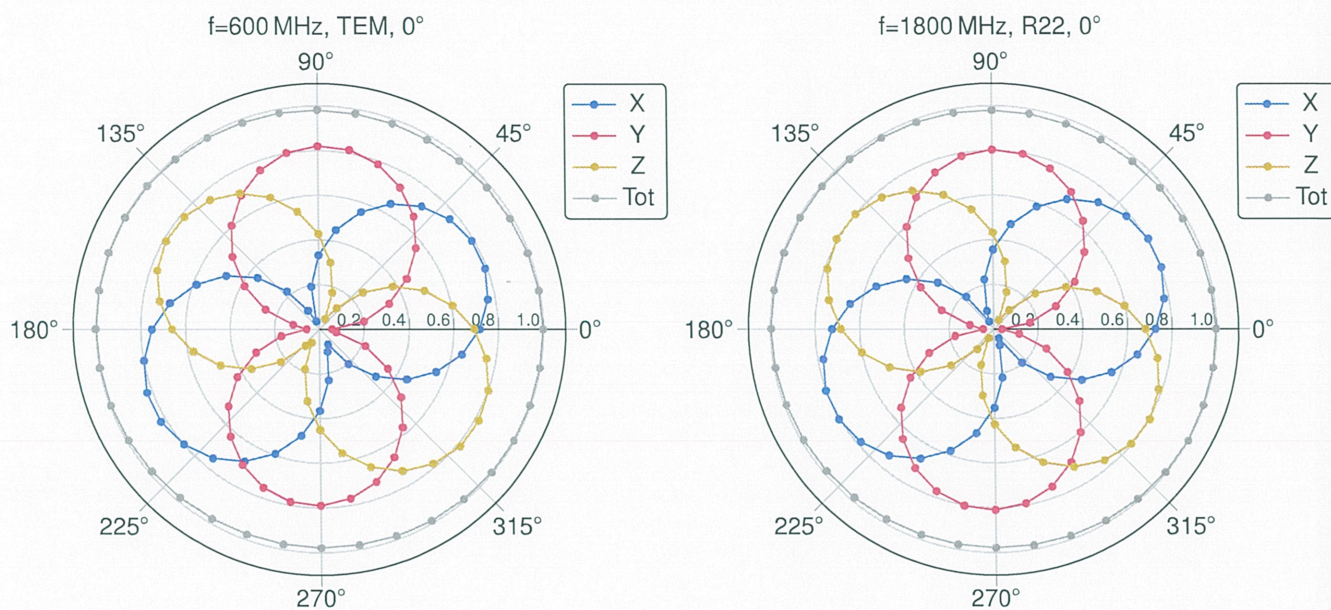
^H The stated uncertainty is the total calibration uncertainty (k = 2) of Norm·ConvF. This is equivalent to the uncertainty component with the symbol CF in Table 9 of IEC/IEEE 62209-1528:2020.

Frequency Response of E-Field

(TEM-Cell:ifi110 EXX, Waveguide:R22)



Uncertainty of Frequency Response of E-field: $\pm 6.3\%$ ($k=2$)

Receiving Pattern (ϕ), $\vartheta = 0^\circ$ 

Uncertainty of Axial Isotropy Assessment: $\pm 0.5\%$ ($k=2$)