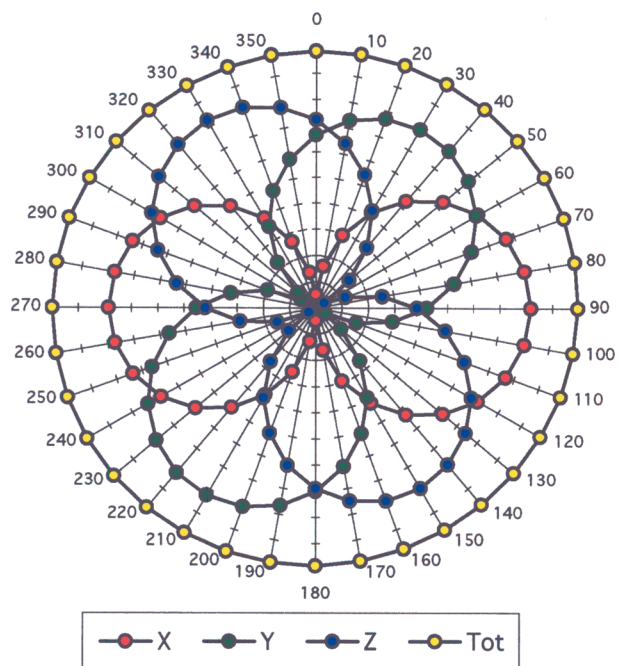
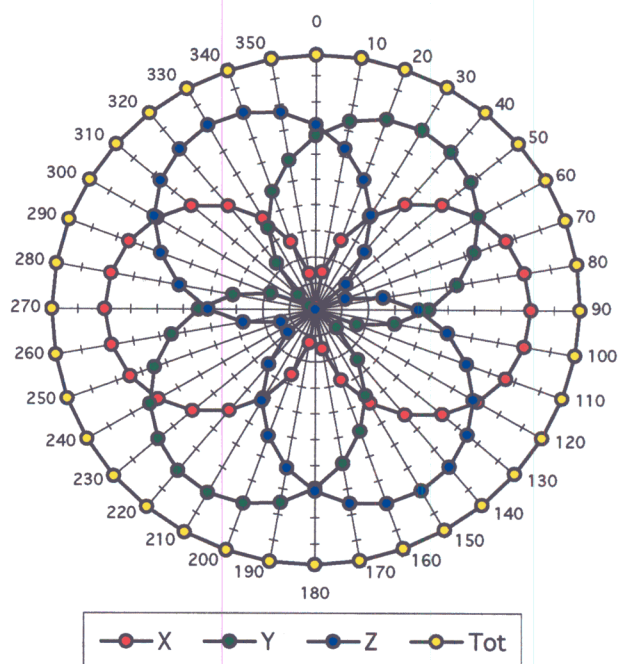
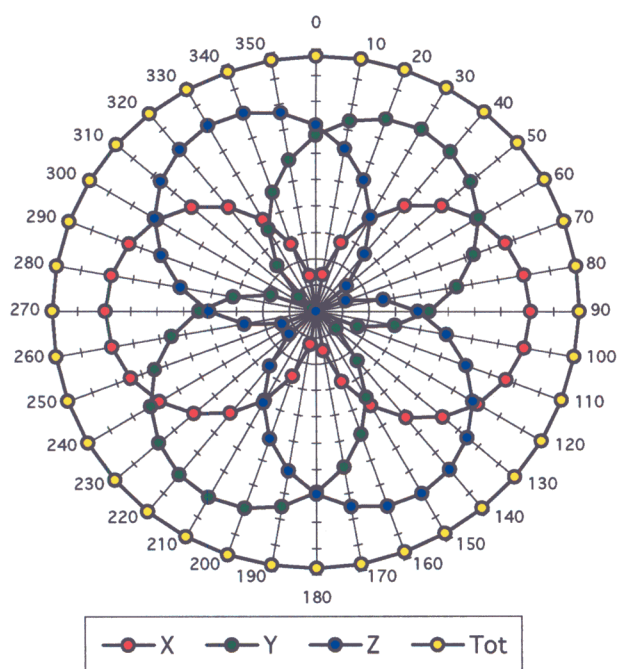
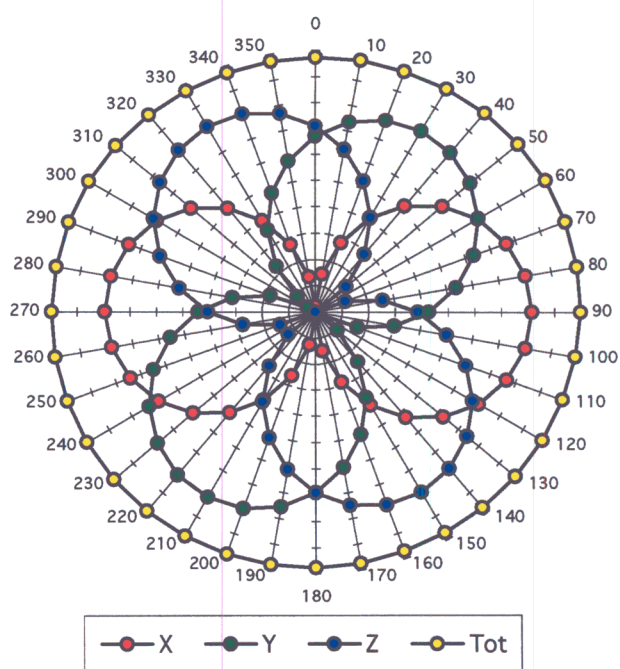
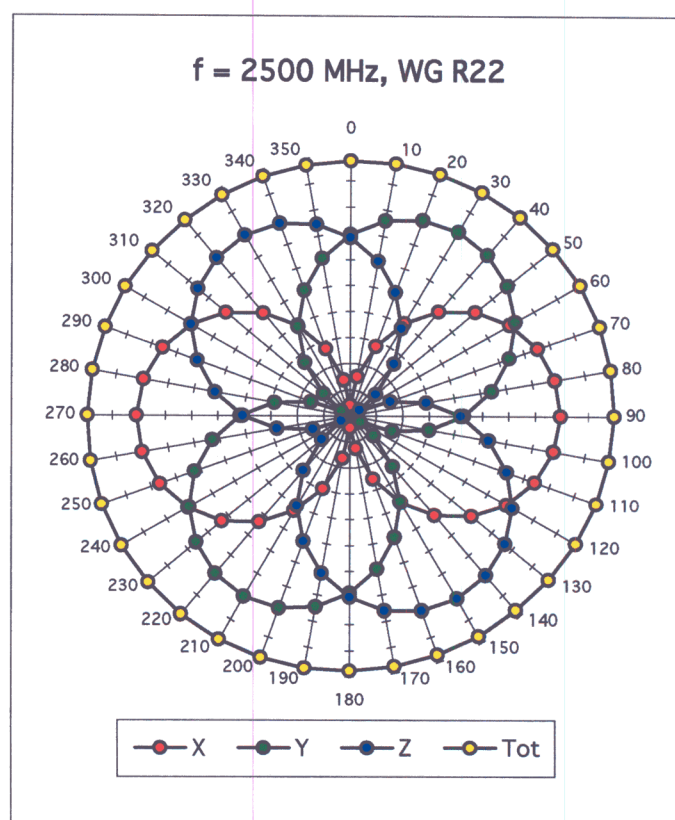
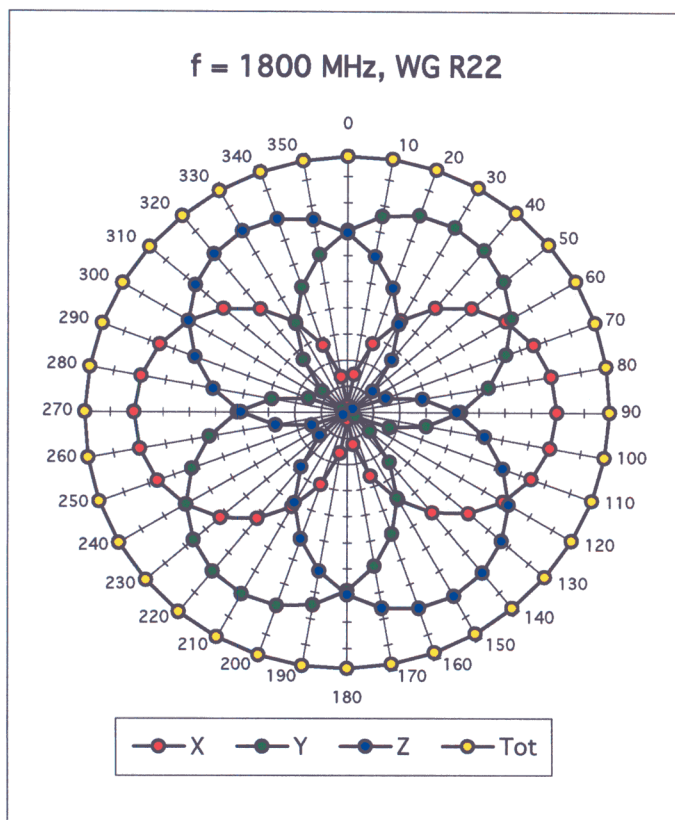
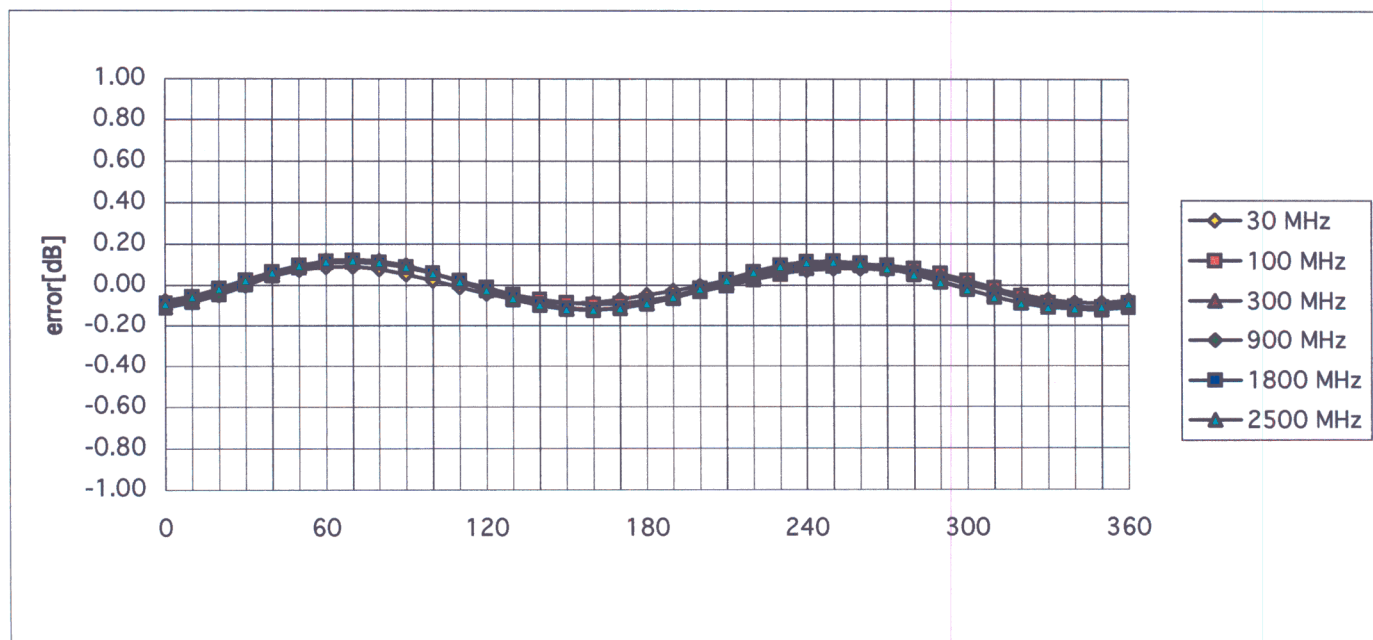


Receiving Pattern (ϕ), $\theta = 0^\circ$ $f = 30 \text{ MHz}$, TEM cell ifi110 $f = 100 \text{ MHz}$, TEM cell ifi110 $f = 300 \text{ MHz}$, TEM cell ifi110 $f = 900 \text{ MHz}$, TEM cell ifi110

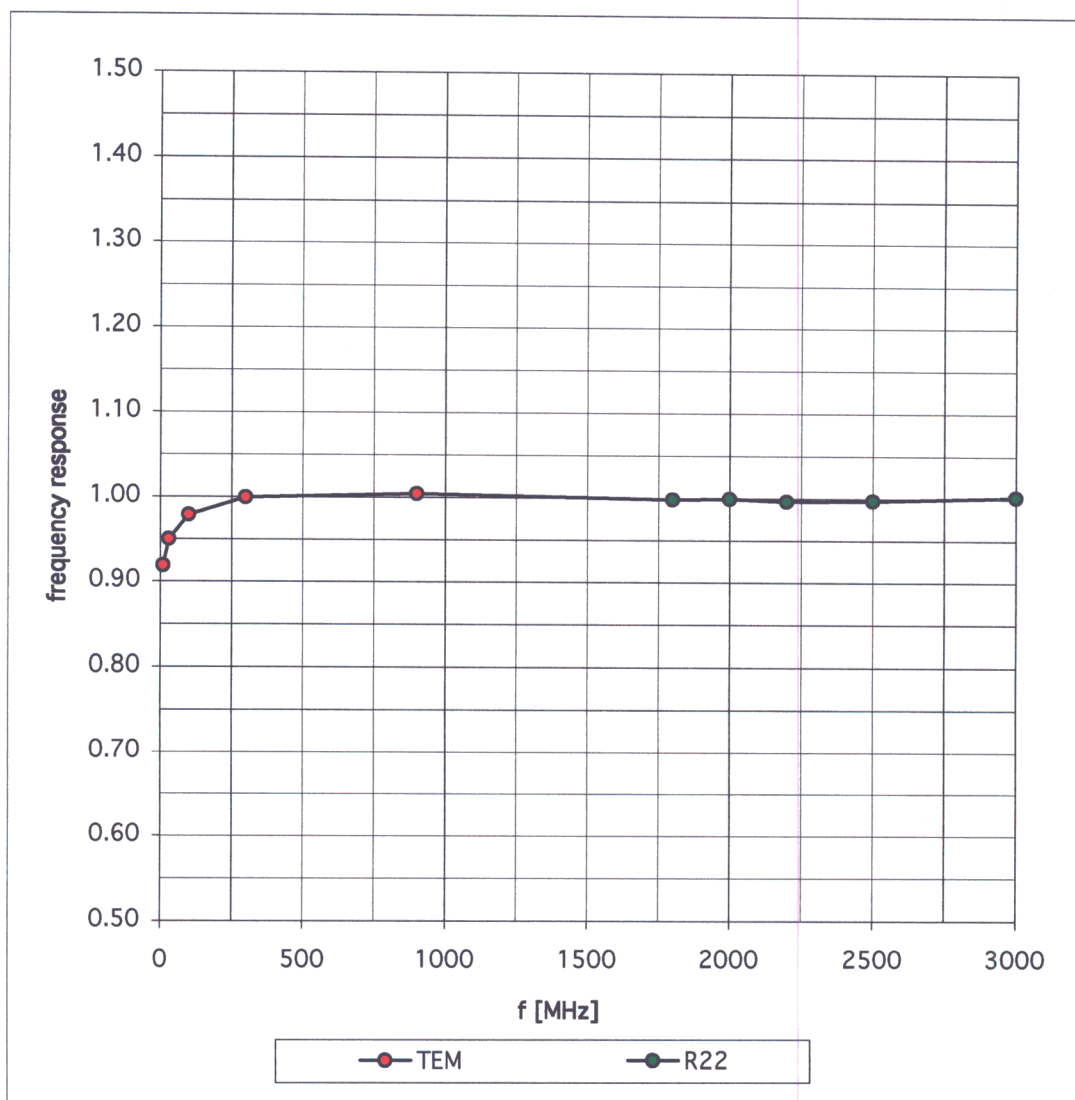


Isotropy Error (ϕ), $\theta = 0^\circ$



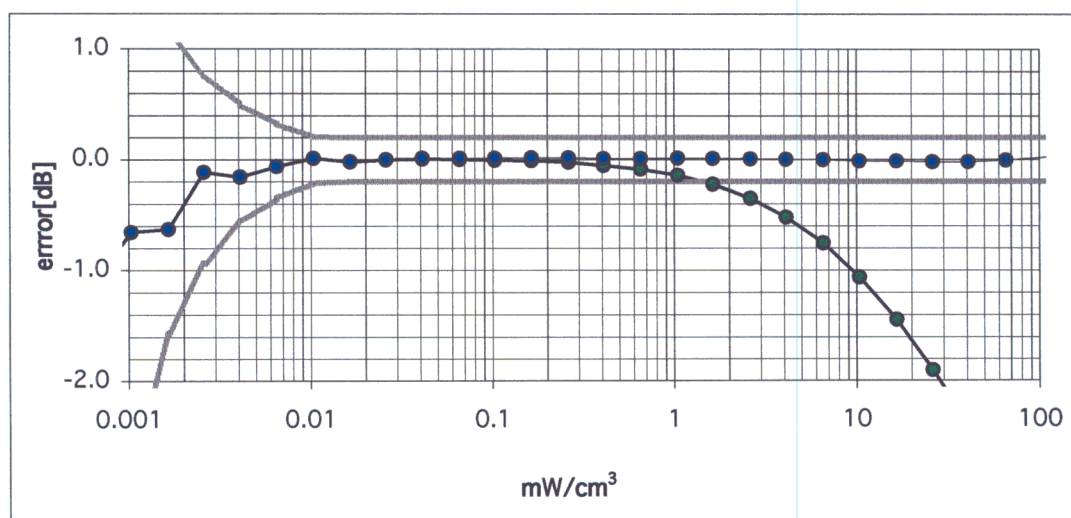
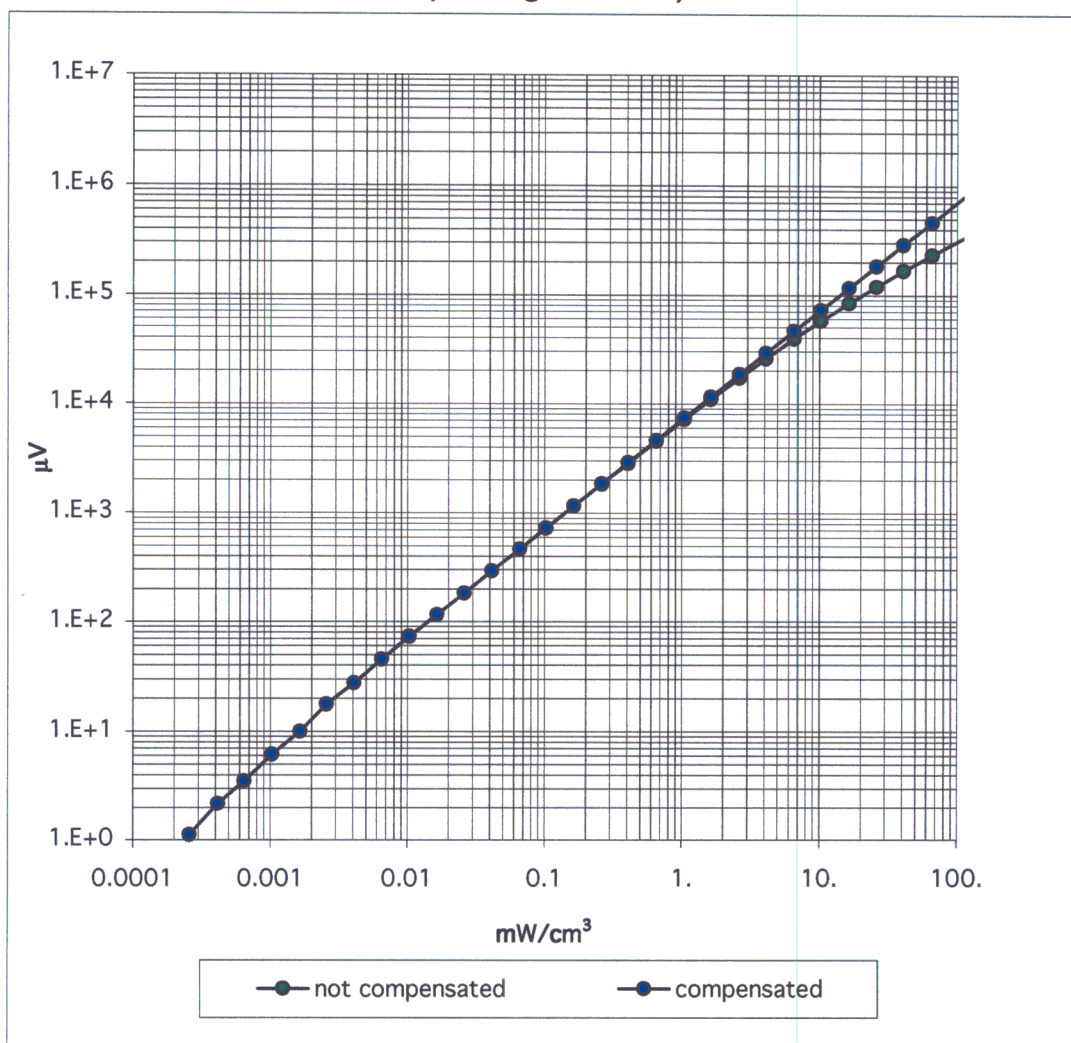
Frequency Response of E-Field

(TEM-Cell:ifi110, Waveguide R22)

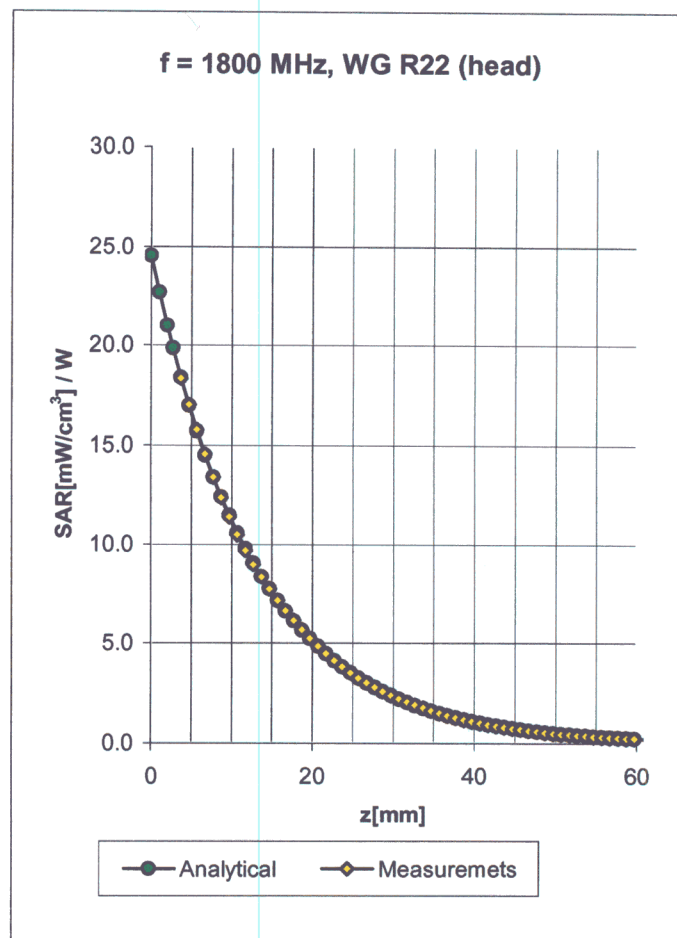
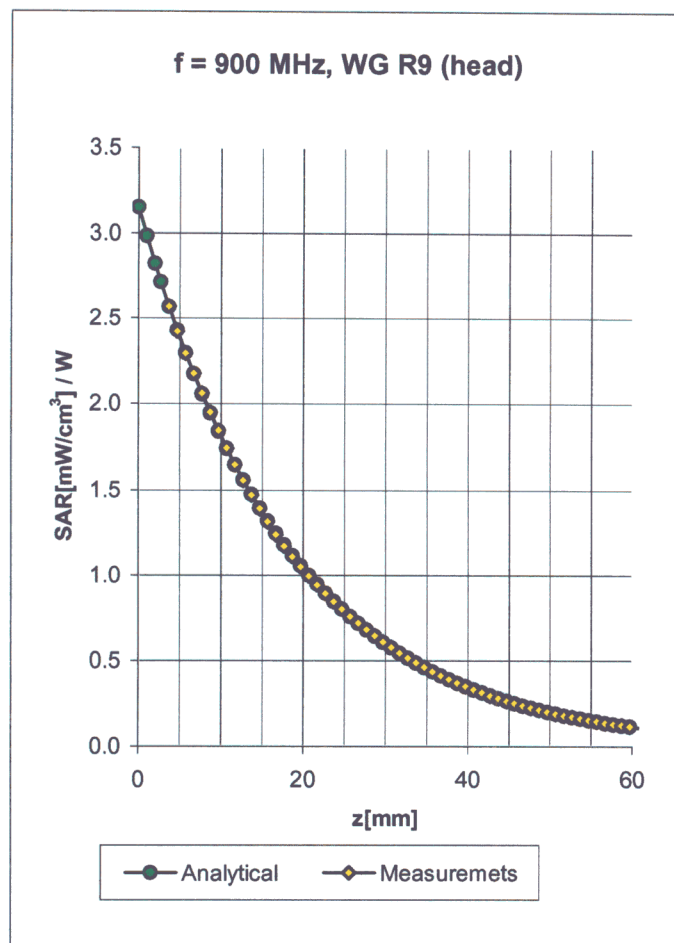


Dynamic Range f(SAR_{brain})

(Waveguide R22)



Conversion Factor Assessment



Head 900 MHz $\epsilon_r = 41.5 \pm 5\%$ $\sigma = 0.97 \pm 5\%$ mho/m

Valid for f=800-1000 MHz with Head Tissue Simulating Liquid according to EN 50361, P1528-200X

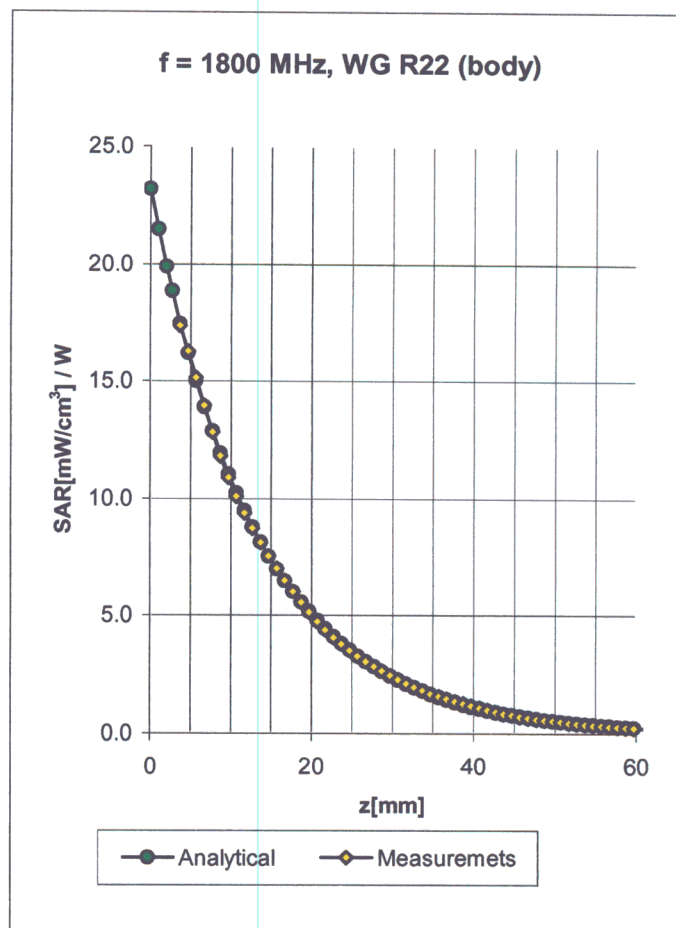
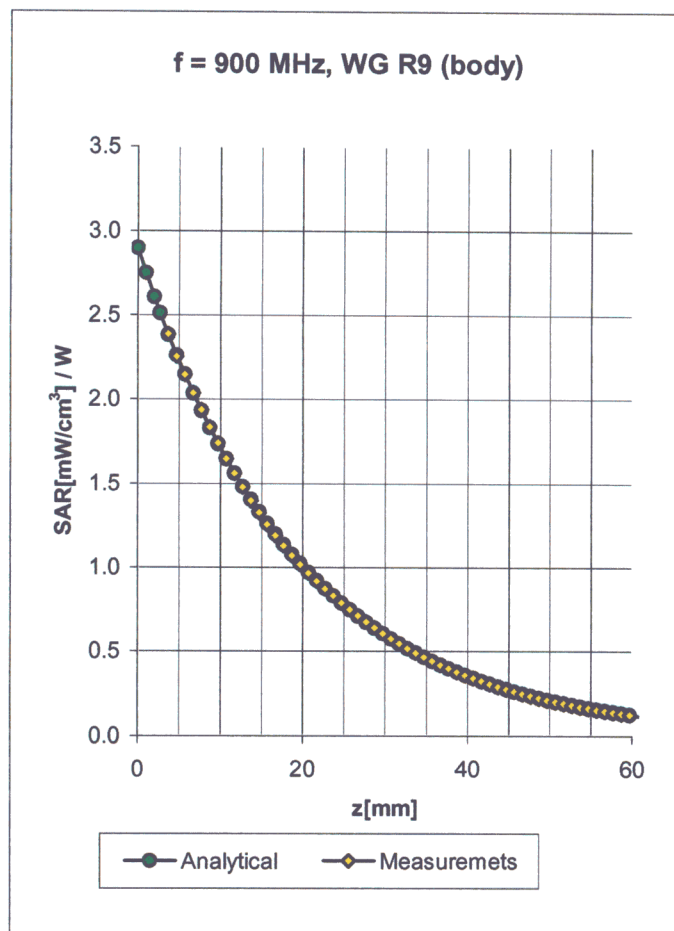
ConvF X	6.7 $\pm 9.5\%$ (k=2)	Boundary effect:	
ConvF Y	6.7 $\pm 9.5\%$ (k=2)	Alpha	0.40
ConvF Z	6.7 $\pm 9.5\%$ (k=2)	Depth	2.18

Head 1800 MHz $\epsilon_r = 40.0 \pm 5\%$ $\sigma = 1.40 \pm 5\%$ mho/m

Valid for f=1710-1910 MHz with Head Tissue Simulating Liquid according to EN 50361, P1528-200X

ConvF X	5.3 $\pm 9.5\%$ (k=2)	Boundary effect:	
ConvF Y	5.3 $\pm 9.5\%$ (k=2)	Alpha	0.45
ConvF Z	5.3 $\pm 9.5\%$ (k=2)	Depth	2.62

Conversion Factor Assessment



Body 900 MHz $\epsilon_r = 55.0 \pm 5\%$ $\sigma = 1.05 \pm 5\%$ mho/m

Valid for f=800-1000 MHz with Body Tissue Simulating Liquid according to OET 65 Suppl. C

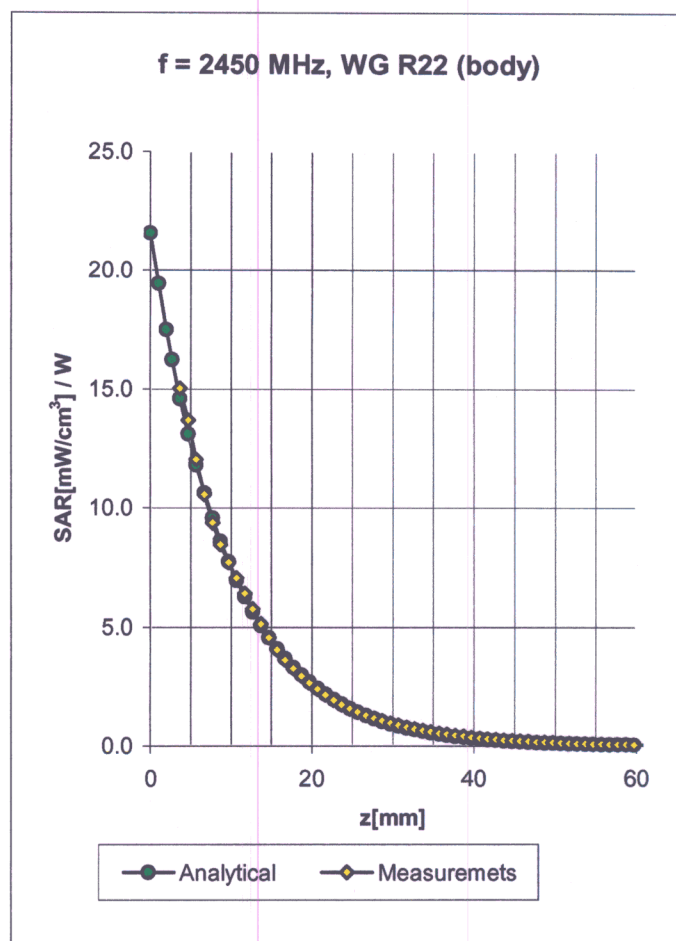
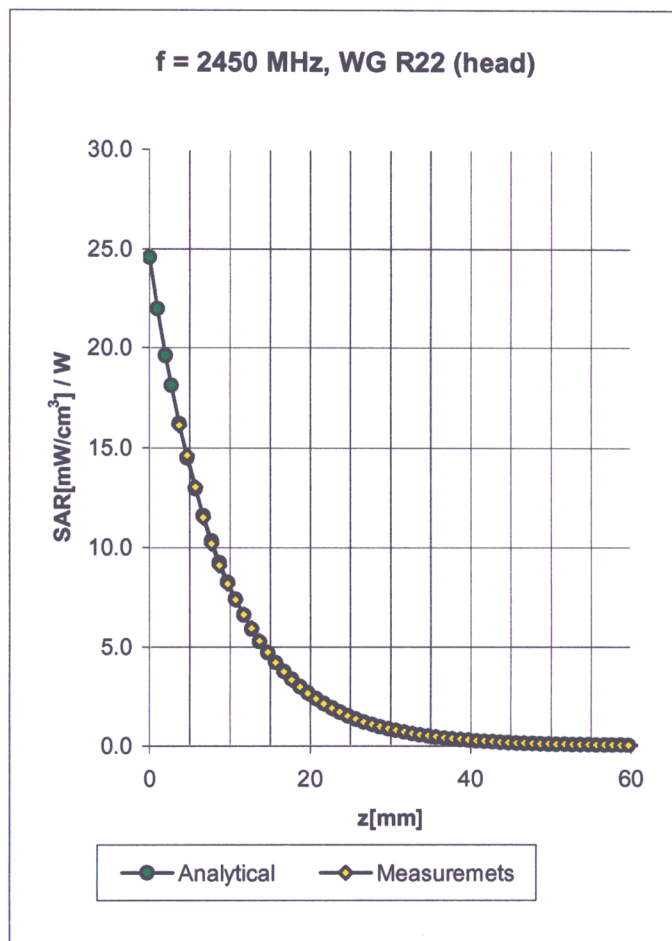
ConvF X	6.6 $\pm 9.5\%$ (k=2)	Boundary effect:	
ConvF Y	6.6 $\pm 9.5\%$ (k=2)	Alpha	0.35
ConvF Z	6.6 $\pm 9.5\%$ (k=2)	Depth	2.51

Body 1800 MHz $\epsilon_r = 53.3 \pm 5\%$ $\sigma = 1.52 \pm 5\%$ mho/m

Valid for f=1710-1910 MHz with Body Tissue Simulating Liquid according to OET 65 Suppl. C

ConvF X	5.0 $\pm 9.5\%$ (k=2)	Boundary effect:	
ConvF Y	5.0 $\pm 9.5\%$ (k=2)	Alpha	0.51
ConvF Z	5.0 $\pm 9.5\%$ (k=2)	Depth	2.80

Conversion Factor Assessment



Head 2450 MHz $\epsilon_r = 39.2 \pm 5\%$ $\sigma = 1.80 \pm 5\%$ mho/m

Valid for f=2400-2500 MHz with Head Tissue Simulating Liquid according to EN 50361, P1528-200X

ConvF X	4.9 $\pm 8.9\%$ (k=2)	Boundary effect:	
ConvF Y	4.9 $\pm 8.9\%$ (k=2)	Alpha	0.86
ConvF Z	4.9 $\pm 8.9\%$ (k=2)	Depth	1.98

Body 2450 MHz $\epsilon_r = 52.7 \pm 5\%$ $\sigma = 1.95 \pm 5\%$ mho/m

Valid for f=2400-2500 MHz with Body Tissue Simulating Liquid according to OET 65 Suppl. C

ConvF X	4.5 $\pm 8.9\%$ (k=2)	Boundary effect:	
ConvF Y	4.5 $\pm 8.9\%$ (k=2)	Alpha	1.40
ConvF Z	4.5 $\pm 8.9\%$ (k=2)	Depth	1.45

Deviation from Isotropy in HSL

Error (θ, ϕ), $f = 900$ MHz

