Diameter Correction Method Fit

normalized data
fit function
resonance

Q = 278600±2740.440
Q_i = 542000±15271.557
Q_c = 520100±4635.634
$1/Re[1/Q_c]$ = 573300±5110.188
ϕ = 0.434±0.009 radians
f_c = 4.4985917±0.000 GHz