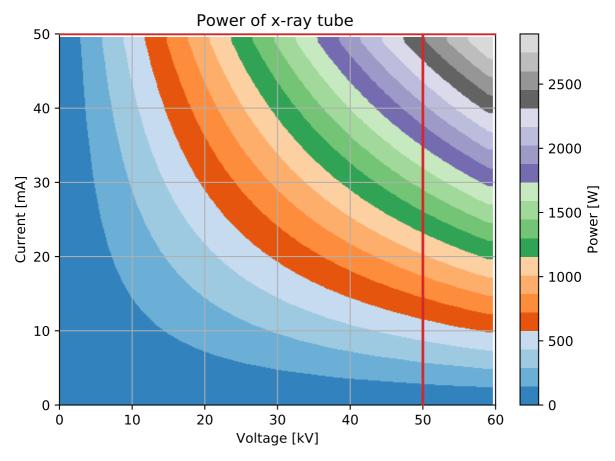
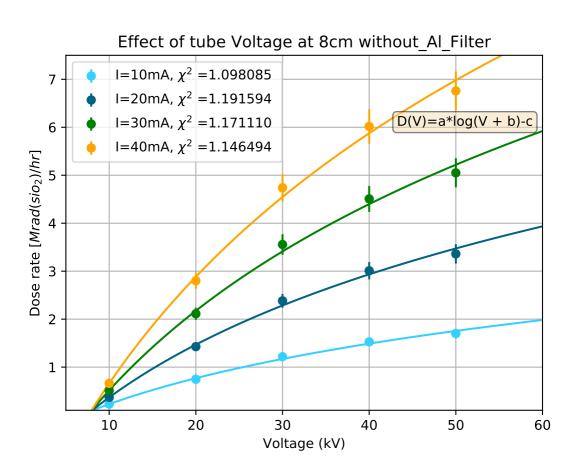


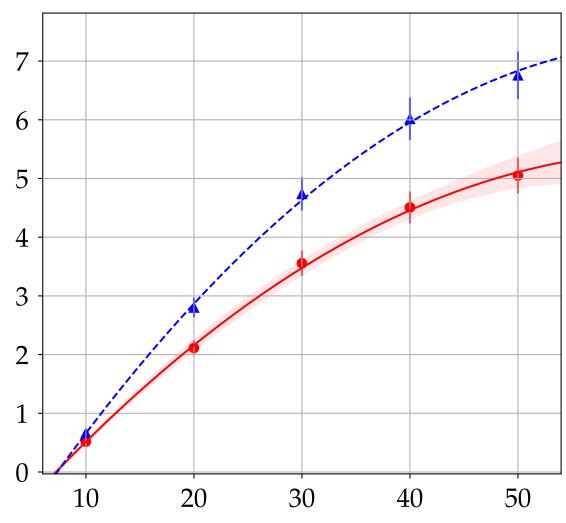
Dose rate vs Distance at (40 kV and 50 mA) Fit: a=1130.44 ,b= 5.26 & χ^2_{red} = 1.10 40 Fit: a=637.76 ,b= 9.52 & χ_{red}^2 = 0.51 35 without Al Filter with Al Filter Dose rate (D) [Mrad(sio₂)/hr] 30 25 20 0.75 cm 15 0.9 cm 10 1.05 cm 1.3 cm 1.5 cm 1.8 cm 5 3.5 cm 5.0 cm 0 10 20 30 50 60 40

Distance (r) [cm]









$$f(x; a, b, c) = a x^{2} + b x + c$$

$$f(x; a, b, c) = a x^{2} + b x + c$$

$$f(x; a, b, c) = a x^{2} + b x + c$$

$$I=30\text{mA}$$

$$I=40\text{mA}$$

Fit Info

$$f(x; a, b, c) = a x^{2} + b x + c$$

$$a = -0.00166 \pm 0.00045$$

$$b = 0.214 \pm 0.023$$

$$c = -1.46 \pm 0.19$$

$$f(x; a, b, c) = a x^{2} + b x + c$$

$$f(x; a, b, c) = a x^2 + b x + c$$
:
 $a = -0.00221 \pm 0.0006$
 $b = 0.287 \pm 0.03$
 $c = -1.99 \pm 0.26$