

My Data - Calculating the wavelength of Red and Green diode lasers

Red Laser: $\lambda = 650$ nm

$d = 0.0125$ cm

$D = 109$ cm

m	2x (cm)	x (cm)	λ (cm)	λ (nm)	
1	1.05	0.525	6.021E-05	602.1	
2	2.2	1.1	6.307E-05	630.7	
3	3.3	1.65	6.307E-05	630.7	
4	4.4	2.2	6.307E-05	630.7	
5	5.65	2.825	6.479E-05	647.9	
				628.4	3%

Green Laser: $\lambda = 532$ nm

m	2x (cm)	x (cm)	λ (cm)	λ (nm)	
1	1.0	0.5	5.734E-05	573.4	
2	1.85	0.925	5.304E-05	530.4	
3	2.75	1.375	5.256E-05	525.6	
4	3.10	1.55	4.444E-05	444.4	
5	4.65	2.325	5.333E-05	533.3	
				521.4	2%