mL std added	Excitation	Emission	Data	Average	Unknown added (mL)	Data for graph		Nathan Gillispie			
0.00	350.0	450.0	23.7			0.00	22.0				
			23.2	23.5	3.2	0.30	27.5				
0.30			27.4			0.50	48.4				
			27.6	27.5	3	0.75	71.3				
0.50			49.0			1.05	72.7				
			47.8	48.4	3	1.30	82.8				
0.75			69.5								
			73.0	71.3	3						
1.05			71.2								
			74.1	72.7	3						
1.30			83.0								
			82.5	82.8	3						

To find how much unknown was in the original we must extrapolate backwards with the linear fit eqn to the y intercept for the line.

y	0.000
m	50.69
b	21.14
eqn	x=(y-b)/m
x	-0.417

To determine concentration of the original unknown we must divide x by the mL of unknown added to each vial and multiply by ppm of standard

initial amount (mL)	0.417
unknown volume (mL)	3.000
ppm of standard	10.000
eqn	0.417mL*10ppm/3.00mL
ppm of unknown	1.390