

Sheet2

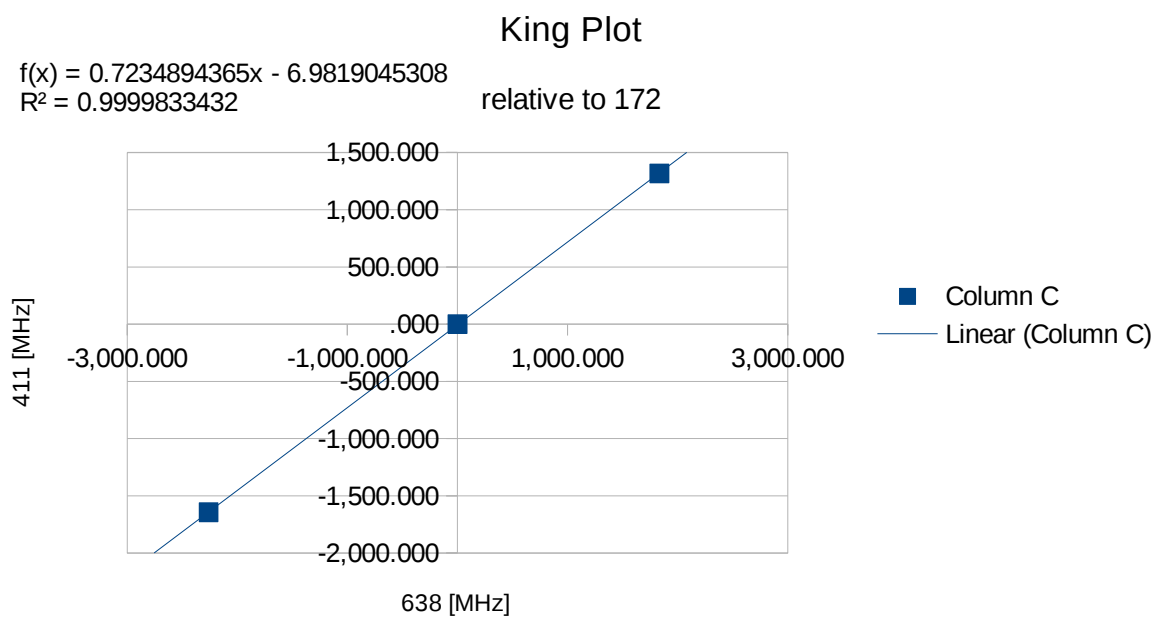
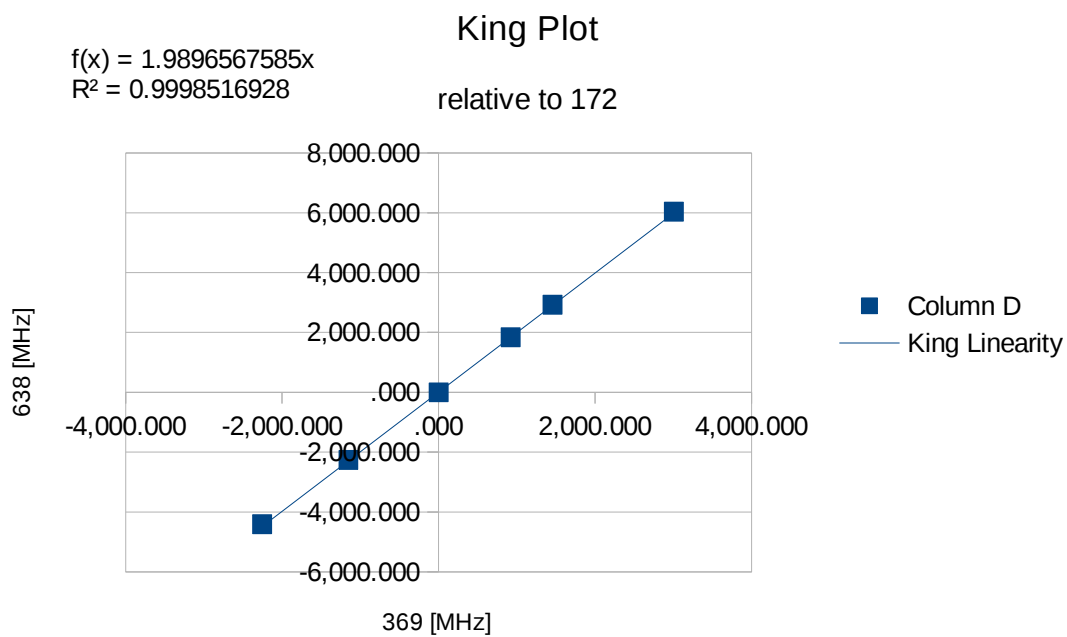
King Plots	Bold:data	unbold:fitted		
	369	411	635	
	2P3/2 (MHz)	2D5/2	D[5/2] (MHz)	absolute freq (MHz)
error	+/- 30 MHz	+/- ~2 MHz	+/-20 MHz	(+/- 2MHz)
168	3,007.800		6,040.000	
170	1,457.900		2,930.000	729,486,462.466
171	922.500	1,317.100	1,835.458	729,487,779.566
172	.000	.000	.000	729,486,462.466
174	-1,152.300	-1,645.197	-2,260.000	729,484,817.269
176	-2,254.800		-4,410.000	

<https://journals.aps.org/prapdf/10.1103/PhysRevA.60.2867>

slope relative to 2P3/2
1.427750678 1.989656759

172 2D5/2 transition frequency: (+/- 150 kHz)
729 487 779 566
<https://journals.aps.org/prapdf/10.1103/PhysRevA.60.2867>

03.

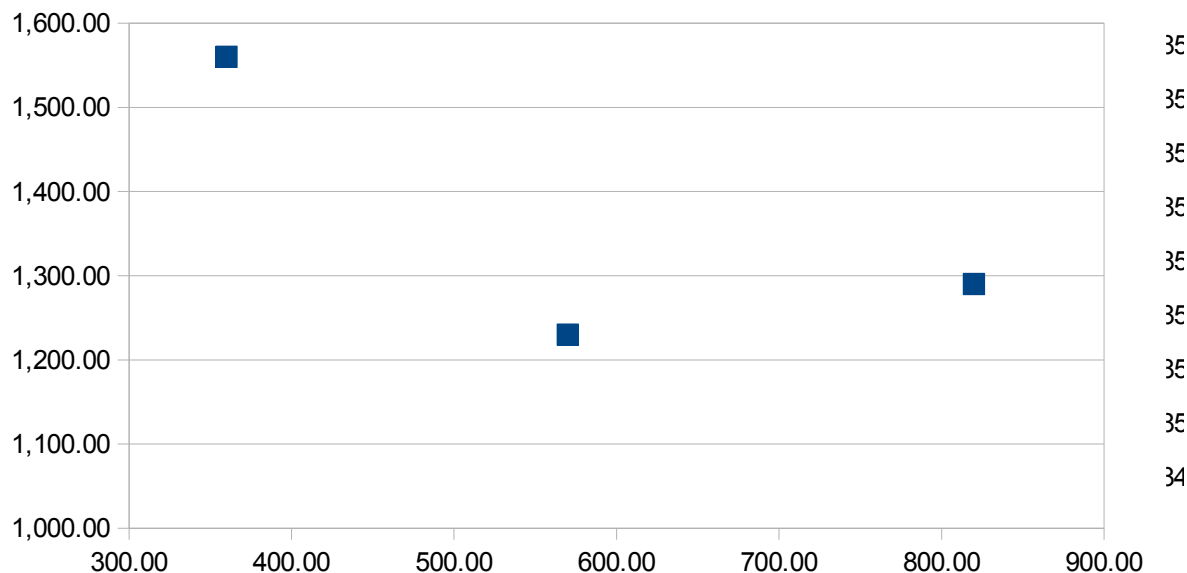


Sheet1

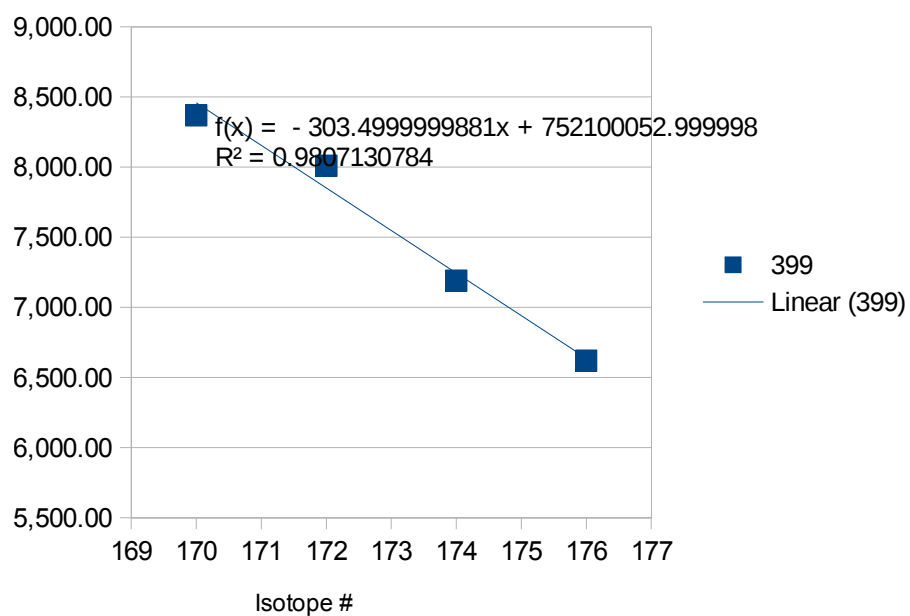
Isotope	399	369	411	435	467
			'2S1/2 2D5/2	'2S1/2 2D3/2	'2S
MHz					
170	752,048,370.00	811,856,040.00	729,498,690.00		
171			729,487,779.57	6	752,04
172	752,048,010.00	811,854,480.00	729,476,869.13	6	
173			729,465,958.69	688,358,979.31	752,04
174	752,047,190.00	811,853,190.00	729,455,048.26		
175			729,444,137.82		752,04
176	752,046,620.00	811,851,960.00	729,433,227.39		
177			729,422,316.95		752,04
178			729,411,406.51		
Average Isotope Shift (MHz / amu)					752,04
	-303.50	-676.50	-10,910.44		752,04
BOLD means real data					752,04
NONBOLD means linear extrapolation					752,04
King Plot	360.00	1,560.00	21,820.87		752,04
	820.00	1,290.00	21,820.87		
	570.00	1,230.00	21,820.87		

Freq (MHz)

King Plot



transition freq vs isotope



transition freq vs isotope

