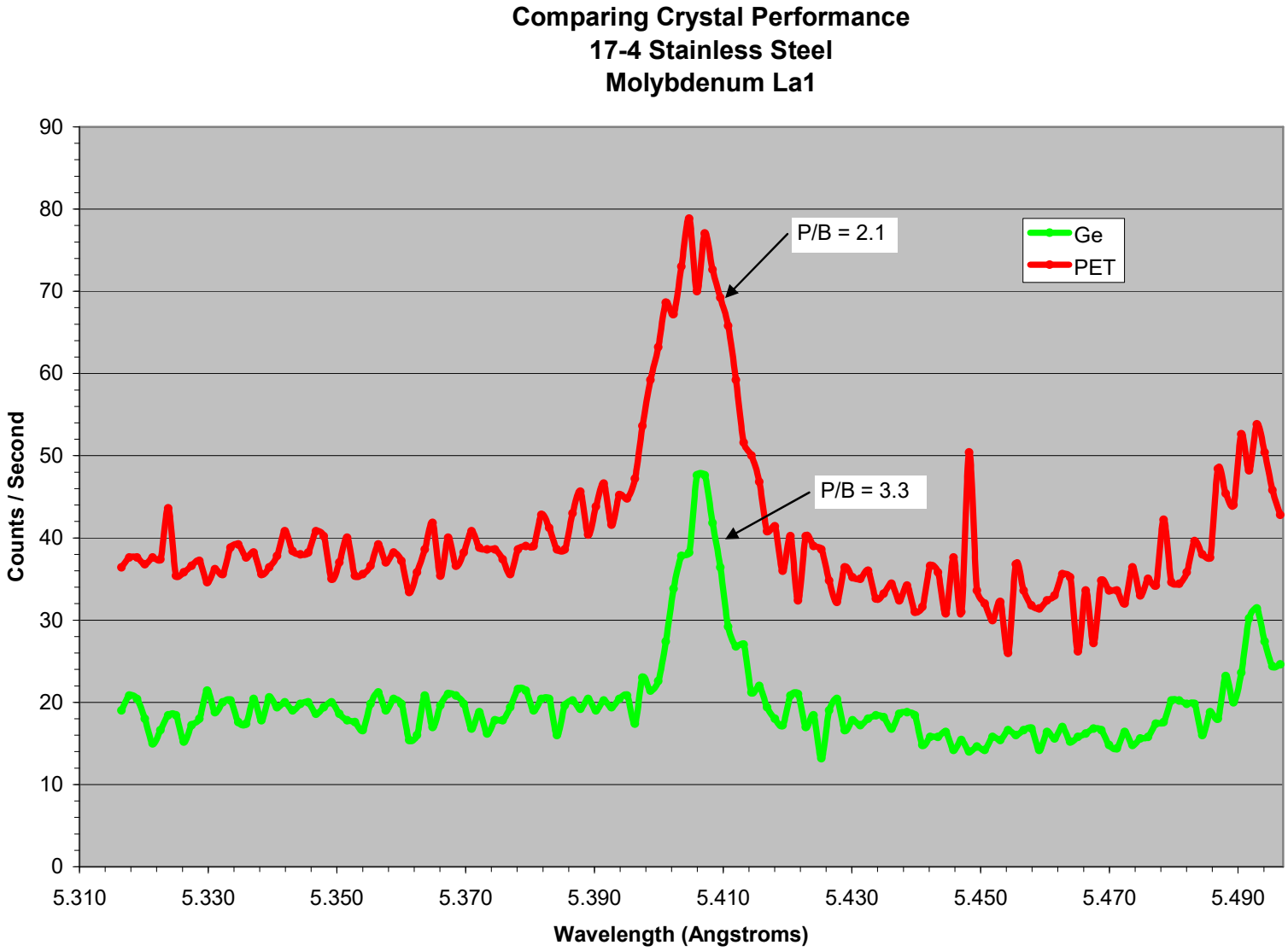
Sample: 17-4 Stainless Steel
#519

Element	Weight %	Ge P/B	LiF P/B	PET P/B	Ge Reso eV	LiF Reso eV	PET Reso eV	Ge MDL PPM	LiF MDL PPM	PET MDL PPM	Element
C	0.0360										C
N	0.0320										N
Si	0.3900										Si
P	0.0260										P
S	0.0010										S
Cr	15.0800	135.4	103.9	56.4	10	18	56	68	86	412	Cr
Mn	0.4300	3.7	3.1		10	20		66	71		Mn
Co	0.0540	2.1	1.3		12	16		6	7		Co
Ni	4.7200	24.8	13.9		12	16		105	139		Ni
Cu	3.4000										Cu
Mo	0.2300	3.1		1.36	6		8	53		144	Mo
Ta	0.0024										Ta
Fe	75.5986	505.2	248.0		6	26		37	58		Fe

Gun: 20KV
Counting Time: 300 Seconds
Crystals: Germanium Precision; LiF; PET
Detector: Xenon
The Ge Crystal Exceeds the LiF and PET crystals for P/ B, Resolution, and Minimum Detection Limits


Comparing Crystal Performance
17-4 Stainless Steel
Molybdenum La1
Counts / Second
Wavelength (Angstroms)
P/B = 2.1
P/B = 3.3
Ge
PET
0
10
20
30
40
50
60
70
80
90
5.310
5.330
5.350
5.370
5.390
5.410
5.430
5.450
5.470
5.490