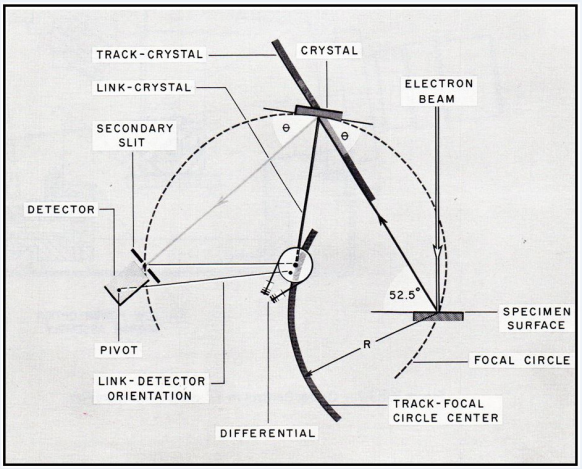
Advanced MicroBeam

Lead and Sulfur Energy Resolution

1. Gun: 15 KV
2. Sample Current: 10 nA
3. Sample: PbS - Lead: 86.6% ; S: 13.4%
4. X-Ray: S Ka @ 2,307 ; Pb Ma @ 2,345 eV
5. Crystal: PET ; 2d – 8.75; Johansson geometry
6. Spectrometer No: 1 - 5
7. Spectrometer Type: Scanning WDS, Curved Crystal
8. Roland Circle Radius: 127 mm
9. Resolution: Pb - 7 eV; S – 5eV
10. Detector Gas: Xenon
11. Xenon Absorption Efficiency for S and Pb: 100%
12. Number of windows between sample and crystal: 0
13. P/B Ratios: Pb – 90; S – 74 ; Background: 27 CPS
14. Takeoff Angle: 52.5^0



Spectrometer Type

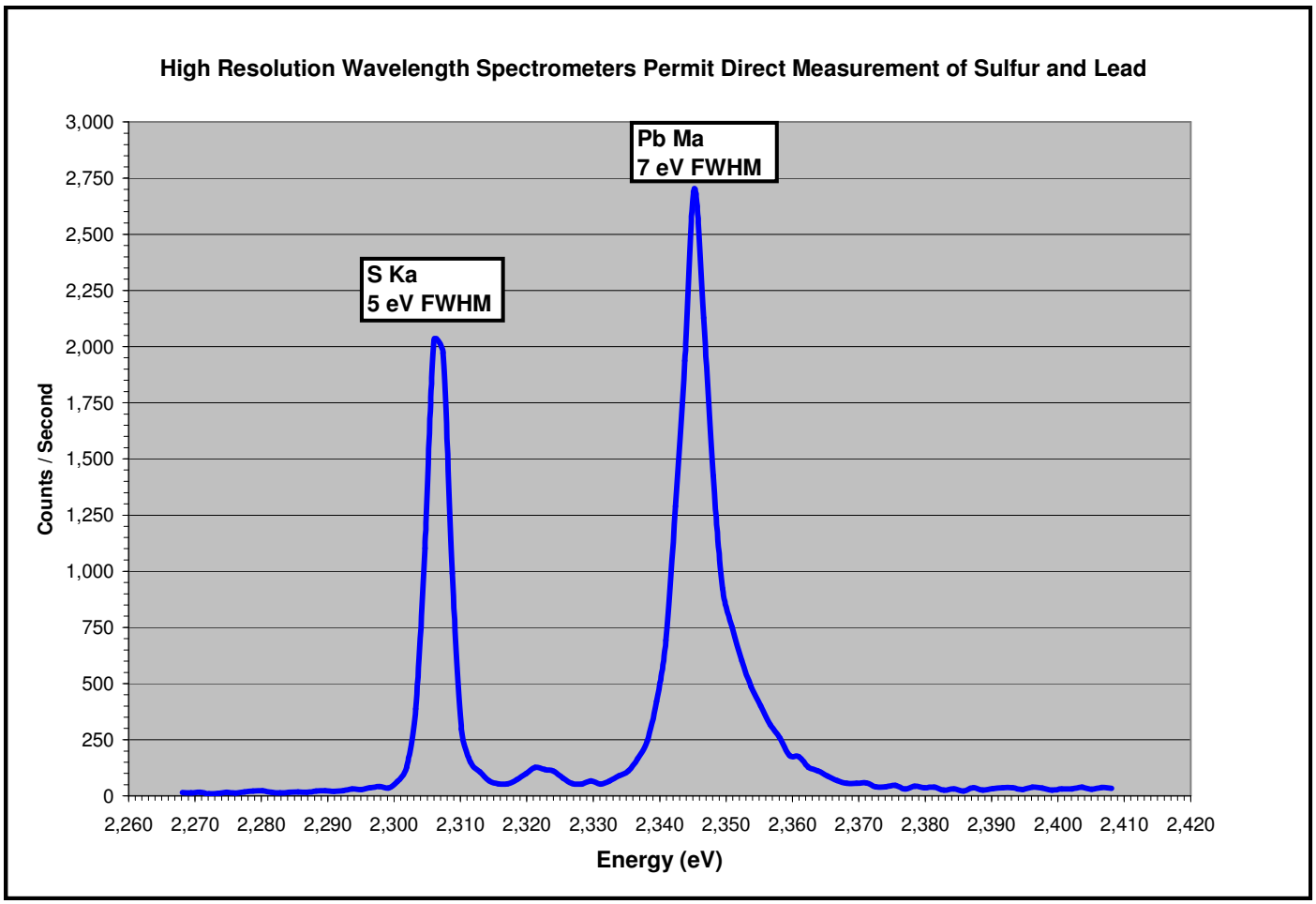


Figure 1: Wave Scan on Lead Sulfide Sample