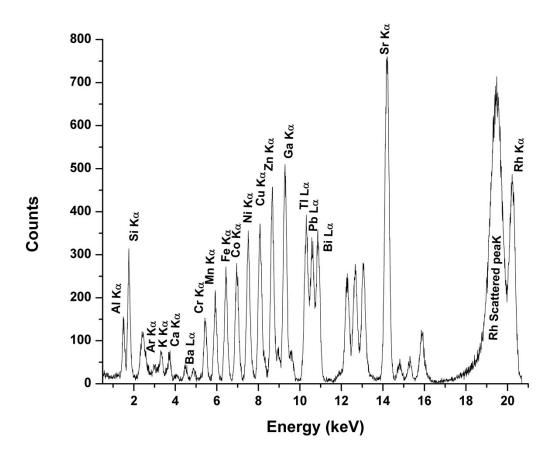
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## **Electronic Suplimentary Information**



TXRF spectrum of MES having analyte concentration of 2  $\mu g/mL$  in Al matrix having concentration of 1000  $\mu g/mL$ 

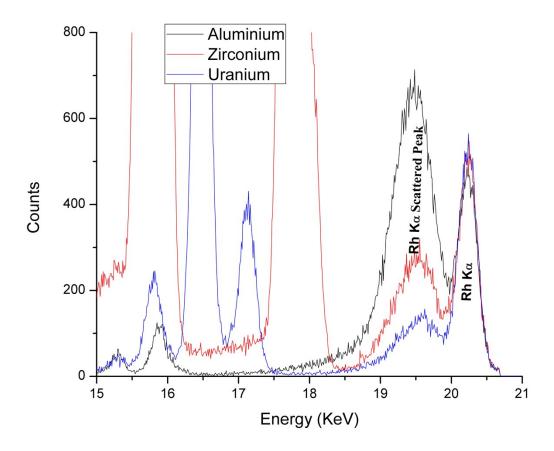


Figure showing the drastic decrease in the Compton intensity with increasing atomic number of the matrix and the matrix effect is especially visible with that peak.