Amptek, Inc XRF Analysis Report

File: C:\CrossRoads Scientific\SIR-FP Tutorial\MLSQ Files\UnknownRock.tfr
12:48:29 PM 11-Sep-13

Comment line

Layer Table ==========

#	Thick	Type	Error	Units	Density	Norm.	Total
1	0.00	Bulk	0.00	mg/cm2	0.00	On	100.00

Sample Table ==========

Layer	Component	Type	Concn.	Error	Units	Mole%	Error
1	Ba	Calc	1090.20	155.833	ppm	0.023	0.003
1	Cu	Calc	253.95	24.355	ppm	0.012	0.001
1	Ni	Calc	111.72	12.123	ppm	0.006	0.001
1	Rb	Calc	149.54	11.606	ppm	0.005	0.000
1	Sr	Calc	182.73	15.165	ppm	0.006	0.001
1	V	Calc	271.34	40.182	ppm	0.016	0.002
1	Zr	Calc	131.12	7.377	ppm	0.004	0.000
1	P2O5	Calc	0.308	0.287	wt.%	0.064	0.059
1	SiO2	Calc	48.937	0.718	wt.%	23.917	0.351
1	TiO2	Calc	0.935	0.022	wt.%	0.344	0.008
1	Al2O3	Calc	20.563	0.762	wt.%	5.922	0.220
1	Fe2O3	Calc	9.843	0.044	wt.%	1.810	0.008
1	CaO	Calc	2.727	0.051	wt.%	1.428	0.027
1	MgO	Calc	2.686	1.367	wt.%	1.957	0.996
1	K2O	Calc	3.325	0.068	wt.%	1.036	0.021
1	MnO	Calc	0.141	0.007	wt.%	0.058	0.003
1	S	Calc	0.535	0.055	wt.%	0.489	0.050
1	H	SIRFP	0.371	0.000	wt.%	10.805	0.000
1	O	SIRFP	51.099	0.000	wt.%	93.786	0.000

Element Table ==========

Elmt	Line Code	Cond Code	Ratio Method	Intensity (c/s)	Error (c/s)	Intensity Method	Conc.	Conc Method	Calibration Coefficient
H	Ka	0	None	0.000	0.0000	Gaussian	0.370	None	0.000
O	Ka	0	None	0.000	0.0000	Gaussian	92.790	None	0.000
Mg	Ka	1	None	1.764	0.8510	Gaussian	1.620	SIRFP	113387.100
Al	Ka	1	None	104.382	2.5362	Gaussian	10.883	SIRFP	118246.900
Si	Ka	1	None	352.441	3.9165	Gaussian	22.875	SIRFP	50925.790
P	Ka	1	None	1.196	1.1151	Gaussian	0.134	SIRFP	18444.560
S	Ka	1	None	43.529	1.8118	Gaussian	0.535	SIRFP	70962.540
K	Ka	1	None	507.708	5.7542	Gaussian	2.760	SIRFP	57676.940
Ca	Ka	1	None	452.836	5.2860	Gaussian	1.949	SIRFP	49934.990
Ti	Ka	1	None	209.188	3.2137	Gaussian	0.560	SIRFP	33556.480
V	Ka	1	None	18.382	1.5499	Gaussian	0.027	SIRFP	47622.900
Mn	Ka	1	None	99.339	2.7048	Gaussian	0.109	SIRFP	39846.670
Fe	Ka	1	None	6733.831	17.7701	Gaussian	6.885	SIRFP	29381.590
Ni	Ka	1	None	24.885	2.3018	Gaussian	0.011	SIRFP	68170.730
Cu	Ka	1	None	93.348	2.3460	Gaussian	0.025	SIRFP	231839.300
Rb	Ka	1	None	51.767	2.1297	Gaussian	0.015	SIRFP	44298.390
Sr	Ka	1	None	62.071	2.2318	Gaussian	0.018	SIRFP	47402.430
Zr	Ka	1	None	45.356	2.0131	Gaussian	0.013	SIRFP	50522.960
Ba	Ka	1	None	17.754	1.8450	Gaussian	0.109	SIRFP	2504930.000

Analysis Conditions ==========

#	Targ	Filter	Thick. mg/cm2	kV	uA	---Detector--- Type	Filter	Thick. mg/cm2	Atmos	Preset Time(s)	Actual Time(s)
1	Ag	None	0.00	40.0	25.0	Si drift	None	0.0	Air	300.0	198.8

Processing Conditions ==========

#	No. Smths	Escape Peaks	Sum Peaks	Back Type	C/R Ratio	Blank Rem. ----Blank---- ----File-----
1	2	Yes	Yes	Auto	Yes	No

Compton/Rayleigh Results ==========

#	Compton (c/s)	---ROI(keV)--- Low	High	Rayleigh (c/s)	---ROI(keV)--- Low	High
1	263.25	20.220	21.720	96.45	21.720	22.500