Amptek, Inc XRF Analysis Report

File: C:\CrossRoads Scientific\SIR-FP Tutorial\FP Files\Cal_File_SIRFP.tfr
6:08:06 PM 10-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	C	Fixed	2.080	0.000	wt.%	9.561	0.000
1	H2O	Fixed	8.180	0.000	wt.%	23.553	0.000
1	Na2O	Fixed	0.140	0.000	wt.%	0.000	0.000
1	Ba	Calc	788.00	0.000	ppm	0.000	0.000
1	Cu	Calc	31.000	0.000	ppm	0.000	0.000
1	Ni	Calc	82.800	0.000	ppm	0.000	0.000
1	Rb	Calc	147.00	0.000	ppm	0.000	0.000
1	Sr	Calc	178.00	0.000	ppm	0.000	0.000
1	V	Calc	220.00	0.000	ppm	0.000	0.000
1	Zr	Calc	134.00	0.000	ppm	0.000	0.000
1	P2O5	Calc	0.370	0.000	wt.%	0.000	0.000
1	SiO2	Calc	47.640	20.717	wt.%	42.581	0.000
1	TiO2	Calc	0.855	0.077	wt.%	0.343	0.000
1	Al2O3	Calc	21.000	41.846	wt.%	17.627	0.000
1	Fe2O3	Calc	9.710	0.062	wt.%	0.018	0.000
1	CaO	Calc	2.950	0.220	wt.%	1.594	0.000
1	MgO	Calc	2.600	0.000	wt.%	3.561	0.000
1	K2O	Calc	3.450	0.296	wt.%	1.094	0.000
1	MnO	Calc	0.150	0.015	wt.%	0.050	0.000
1	S	Calc	0.715	0.000	wt.%	0.000	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	0.915	None	0.000
C	Ka	0	None	0.000	0.0000	Gaussian	2.080	None	0.000
O	Ka	0	None	0.000	0.0000	Gaussian	48.520	None	0.000
Na	Ka	1	None	0.000	0.6480	Gaussian	0.000	None	0.000
Mg	Ka	1	None	1.764	0.8510	Gaussian	1.568	SIRFP	103165.600
Al	Ka	1	None	104.382	2.5362	Gaussian	11.114	SIRFP	110895.900
Si	Ka	1	None	352.441	3.9165	Gaussian	22.269	SIRFP	51502.760
P	Ka	1	None	1.196	1.1151	Gaussian	0.161	SIRFP	11425.760
S	Ka	1	None	43.529	1.8118	Gaussian	0.715	SIRFP	36835.940
K	Ka	1	None	507.708	5.7542	Gaussian	2.864	SIRFP	56506.680
Ca	Ka	1	None	452.836	5.2860	Gaussian	2.108	SIRFP	43951.510
Ti	Ka	1	None	209.188	3.2137	Gaussian	0.513	SIRFP	36405.970
V	Ka	1	None	18.382	1.5499	Gaussian	0.022	SIRFP	51971.480
Mn	Ka	1	None	99.339	2.7048	Gaussian	0.116	SIRFP	32470.720
Fe	Ka	1	None	6733.831	17.7701	Gaussian	6.792	SIRFP	30515.300
Ni	Ka	1	None	24.885	2.3018	Gaussian	0.008	SIRFP	83404.870
Cu	Ka	1	None	93.348	2.3460	Gaussian	0.000	SIRFP	0.000
Rb	Ka	1	None	51.767	2.1297	Gaussian	0.015	SIRFP	45275.890
Sr	Ka	1	None	62.071	2.2318	Gaussian	0.018	SIRFP	47553.230
Zr	Ka	1	None	45.356	2.0131	Gaussian	0.013	SIRFP	49012.100
Ba	Ka	1	None	17.754	1.8450	Gaussian	0.079	SIRFP	3552374.000

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