

	Determination Limit at 50 % RSD	Calibration range	Calibration RMs	Calibration SEE	Validation RMs	Raw validation SEE	Normalized validation SEE	Validation low range	# RMs low range	Validation SEE low range
SiO ₂	0.2 +/- 0.1 wt%	0-100 wt %	62	0.490 wt. %	130	0.654 wt %	0.22 wt %			
TiO ₂	0.002 +/- 0.001 wt%	0-7 wt %	63	0.016 wt. %	125	0.018 wt %	0.015 wt %			
Al ₂ O ₃	0.044 +/- 0.022 wt%	0-75 wt %	66	0.199 wt. %	131	0.242 wt %	0.102 wt %			
FeO*	0.003 +/- 0.0015 wt%	0-60 wt %	65	0.127 wt. %	131	0.146 wt %	0.125 wt %			
MnO	0.0003 +/- 0.00015 wt%	0-13 wt %	60	0.003 wt %	123	0.005 wt %	0.003 wt %			
MgO	0.004 +/- 0.002 wt%	0-55 wt %	63	0.104 wt %	129	0.179 wt %	0.088 wt %			
CaO	0.032 +/- 0.016 wt%	0-80 wt %	63	0.068 wt %	132	0.133 wt %	0.101 wt %			
Na ₂ O	0.028 +/- 0.014 wt%	0-9 wt %	63	0.056 wt %	123	0.094 wt %	0.080 wt %			
K ₂ O	0.002 +/- 0.001 wt%	0-16 wt %	65	0.041 wt %	124	0.047 wt %	0.037 wt %			
P ₂ O ₅	0.0004 +/- 0.0002 wt%	0-10 wt %	55	0.006 wt %	119	0.014 wt %	0.016 wt %			
F	0.18 +/- 0.09 wt%	0-3 wt %	28	0.037 wt %						
Cl	0.014 +/- 0.007 wt%	0-2 wt %	30	0.0089 wt %						
SO ₃	0.10 +/- 0.05 wt%	0-1.5 wt %	39	0.034 wt %						
As	26 +/- 13 ppm	0-300 ppm	35	2.8 ppm						
Ba	7.5 +/- 3.75 ppm	0-15000 ppm	57	11.4 ppm	100	13.8 ppm		0-1000 ppm	89	11.5 ppm
Bi	2.9 +/- 1.5 ppm	0-40 ppm	19	0.9 ppm	43	1.0 ppm				
Br	4.9 +/- 2.45 ppm	0-200 ppm	9	1.6 ppm						
Ce	8.9 +/- 4.45 ppm	0-10000 ppm	50	4.0 ppm	99	3.7 ppm				
Cr	7.0 +/- 3.5 ppm	0-12000 ppm	46	8.5 ppm	99	30.0 ppm		0-600 ppm	90	4.1 ppm
Cs	6.1 +/- 3.05 ppm	0-800 ppm	49	1.9 ppm	90	1.9 ppm				
Cu	4.6 +/- 2.3 ppm	0-600 ppm	41	2.6 ppm	92	4.6 ppm				
Dy	0.46 +/- 0.23 ppm	0-100 ppm	46	1.1 ppm	81	0.6 ppm				
Ga	2.4 +/- 1.2 ppm	0-100 ppm	39	0.8 ppm	87	1.6 ppm				
Hf	1.4 +/- 0.7 ppm	0-250 ppm	46	1.3 ppm	76	0.6 ppm				
La	6.2 +/- 3.1 ppm	0-6000 ppm	52	2.2 ppm	96	2.4 ppm				
Mo	2.1 +/- 1.05 ppm	0-300 ppm	36	0.8 ppm	65	1.1 ppm				
Nb	2.0 +/- 1.0 ppm	0-600 ppm	40	1.6 ppm	81	1.9 ppm				
Nd	5.2 +/- 2.6 ppm	0-3000 ppm	49	3.1 ppm	97	2.1 ppm				
Ni	3.5 +/- 1.75 ppm	0-4000 ppm	43	3.6 ppm	94	16.3 ppm		0-400 ppm	85	4.7 ppm
Pb	4.3 +/- 2.15 ppm	0-2000 ppm	50	2.1 ppm	95	12.4 ppm		0-500 ppm	89	3.3 ppm
Rb	1.9 +/- 0.95 ppm	0-4000 ppm	53	3.2 ppm	97	10.1 ppm		0-400 ppm	92	2.8 ppm
Sc	2.6 +/- 1.3 ppm	0-100 ppm	49	1.2 ppm	88	1.1 ppm				
Sm	0.8 +/- 0.4 ppm	0-300 ppm	46	1.6 ppm	85	1.1 ppm				
Sr	1.9 +/- 0.95 ppm	0-8000 ppm	55	3.4 ppm	104	14.0 ppm		0-1200 ppm	101	8.6 ppm
Ta	4.5 +/- 2.25 ppm	0-400 ppm	46	1.3 ppm	80	1.7 ppm				
Th	3.4 +/- 1.7 ppm	0-400 ppm	51	1.0 ppm	89	1.3 ppm				
Tl	5.0 +/- 2.5 ppm	0-20 ppm	29	1.8 ppm	56	1.6 ppm				
U	3.8 +/- 1.9 ppm	0-300 ppm	49	1.0 ppm	90	1.1 ppm				
V	3.5 +/- 1.75 ppm	0-800 ppm	51	4.5 ppm	101	6.5 ppm				
Y	2.2 +/- 1.1 ppm	0-600 ppm	43	1.4 ppm	96	1.8 ppm				
Yb	6.1 +/- 3.05 ppm	0-75 ppm	51	1.7 ppm	90	1.9 ppm				
Zn	3.0 +/- 1.5 ppm	0-2500 ppm	53	3.4 ppm	107	6.4 ppm		0-400 ppm	103	5.5 ppm
Zr	3.1 +/- 1.55 ppm	0-6000 ppm	42	7.6 ppm	80	6.9 ppm		0-400 ppm	76	5.7 ppm