



GeoPT

Proficiency Testing Programme for Geochemical Laboratories

Organised by the International Association of Geoanalysts (IAG)

Certificate of Performance



Subscriber: **GeoPT229**
Round: **GeoPT59**

Laboratory Code: **A14**

Test Material: **ROC-1**
Date: **June 2026**

Analyte	Z-Score	Data Quality	Consensus Value	Result Submitted
			g/100g	g/100g
SiO ₂	0.23	2	76.13	76.49
TiO ₂	0.1	2	0.05067	0.051
Al ₂ O ₃	0.07	2	11.11	11.13
Fe ₂ O ₃ T	0.31	2	1.760	1.78
MnO	1.19	2	0.02400	0.026
MgO	4.8	2	0.1170	0.148
CaO	-0.2	2	3.352	3.33
Na ₂ O	1.53	2	0.2605	0.28
K ₂ O	-0.22	2	1.633	1.62
LOI	-4.45	2	5.350	4.61
			mg/kg	mg/kg
As	-0.29	2	153.5	150.15
Ba	-		36.52	
Be	-		6.957	
Bi	-		0.1130	
C(tot)	-		6700	
Cd	-		0.06000	
Ce	2.71	2	76.25	93.45
Co	-		1.254	
Cr	0.37	2	97.92	100.8
Cs	-		9.680	
Cu	0.15	2	52.20	52.9
Dy	-		7.634	
Er	-		4.673	
Eu	-		0.07000	
Ga	-0.17	2	17.15	16.85
Gd	-		7.357	
Ge	-		0.9800	
Hf	-		5.000	

Analyte	Z-Score	Data Quality	Consensus Value	Result Submitted
			mg/kg	mg/kg
Ho	-		1.580	
La	-		34.60	
Li	-		171.0	
Lu	-		0.6521	
Mo	-		2.500	
Nb	0.5	2	77.58	80.8
Nd	-		31.80	
Ni	-		2.940	
Pb	-		11.40	
Pr	-		9.000	
Rb	0.06	2	76.00	76.4
Sb	-		1.184	
Sc	-		0.9550	
Sm	-		7.670	
Sn	-		4.543	
Sr	0.55	2	33.00	34.7
Ta	-		7.630	
Tb	-		1.225	
Th	-0.09	2	32.34	32.05
Tl	-		0.3375	
Tm	-		0.6900	
U	-		6.623	
V	-		2.281	
W	-		3.100	
Y	1.16	2	49.94	55.1
Yb	-		4.480	
Zn	1.12	2	28.70	31.8
Zr	0.93	2	105.0	112.7

The principles upon which GeoPT z-scores are based are detailed in the full report for this round

- indicates result within acceptable range of z-score limits $|z| < 2$

- indicates result outside z-score limits $|z| > 2$ but within the z-score limits $|z| < \text{or} = 3$

- indicates result outside z-score limits $|z| > 3$ and likely to require investigation

Consensus values are assigned values unless otherwise indicated

Shaded Consensus values have provisional status

Peter Webb . Peter Webb - Administrator of GeoPT on behalf of the International Association of Geoanalysts