



GeoPT

Proficiency Testing Programme for Geochemical Laboratories

Organised by the International Association of Geoanalysts (IAG)

Certificate of Performance



Subscriber: **GeoPT229**
Round: **GeoPT59A**

Laboratory Code: **B31**

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

Analyte	Z-Score	Data Quality	Consensus Value	Result Submitted
			g/100g	g/100g
SiO ₂	-0.1	2	76.16	76
TiO ₂	0.15	2	0.1995	0.201
Al ₂ O ₃	-0.18	2	11.81	11.75
Fe ₂ O ₃ T	-0.72	2	1.820	1.772
MnO	0.93	2	0.07105	0.075
MgO	8.86	2	0.09500	0.143
Na ₂ O	1.04	2	3.771	3.9
K ₂ O	-0.06	2	5.190	5.18
			mg/kg	mg/kg
As	-	2	3.700	144.9
Ba	-	2	3.570	
Be	-	2	7.090	
Bi	-	2	0.07077	
Cd	-	2	0.08750	
Ce	1.68	2	128.3	
Co	-	2	0.1655	
Cr	0.84	2	40.50	
Cs	-	2	4.202	
Dy	-	2	9.000	
Er	-	2	4.330	25.1
Eu	-	2	0.4670	
Ga	-0.19	2	25.58	
Gd	-	2	11.40	
Ge	-	2	1.750	
Hf	-	2	15.14	
Ho	-	2	1.650	
In	-	2	0.09200	

Analyte	Z-Score	Data Quality	Consensus Value	Result Submitted
			mg/kg	mg/kg
La	1.38	2	67.05	74.9
Li	-	2	47.70	77
Lu	-	2	0.5700	
Mo	-	2	1.006	
Nb	0.13	2	76.16	
Nd	-	2	68.38	
Ni	-	2	0.6910	
Pb	-0.48	2	47.95	
Pr	-	2	18.71	
Rb	0.14	2	275.5	
Sb	-	2	0.1800	278.2
Sc	-	2	2.400	
Sm	-	2	14.92	
Sn	-	2	6.250	
Sr	-	2	4.948	
Ta	-	2	4.275	
Tb	-	2	1.671	
Th	-0.23	2	29.70	
Tl	-	2	1.174	
Tm	-	2	0.6200	28.8
U	-	2	3.500	
V	-	2	3.050	
W	-	2	1.905	
Y	0.63	2	43.14	
Yb	-	2	3.900	
Zn	0.03	2	168.0	
Zr	0.97	2	469.3	

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