



GeoPT

Proficiency Testing Programme for Geochemical Laboratories

Organised by the International Association of Geoanalysts (IAG)

Certificate of Performance



Subscriber: **GeoPT555**
Round: **GeoPT59A**

Laboratory Code: **B38**

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

Analyte	Z-Score	Data Quality	Consensus Value	Result Submitted
			g/100g	g/100g
SiO ₂	-0.03	2	76.16	76.1
TiO ₂	1.03	2	0.1995	0.21
Al ₂ O ₃	-0.64	2	11.81	11.6
Fe ₂ O ₃ T	-0.3	2	1.820	1.8
MnO	0.7	2	0.07105	0.074
MgO	0.92	2	0.09500	0.1
Na ₂ O	-0.41	2	3.771	3.72
K ₂ O	0.86	2	5.190	5.33
			mg/kg	mg/kg
As	-	2	3.700	
Ba	0.2	2	3.570	3.666
Be	0.18	2	7.090	7.265
Bi	-1.53	2	0.07077	0.045
Cd	-	2	0.08750	
Ce	0.45	2	128.3	132.7
Co	-0.01	2	0.1655	0.165
Cr	0.91	2	40.50	43.88
Cs	-0.15	2	4.202	4.121
Dy	0.61	2	9.000	9.635
Er	0.72	2	4.330	4.731
Eu	-0.1	2	0.4670	0.459
Ga	1.26	2	25.58	28.74
Gd	1.1	2	11.40	12.77
Ge	-	2	1.750	
Hf	-0.16	2	15.14	14.88
Ho	0.2	2	1.650	1.7
In	-	2	0.09200	

Analyte	Z-Score	Data Quality	Consensus Value	Result Submitted
			mg/kg	mg/kg
La	0.64	2	67.05	70.72
Li	-0.09	2	47.70	47.3
Lu	0.59	2	0.5700	0.639
Mo	1.28	2	1.006	1.211
Nb	-0.52	2	76.16	72.84
Nd	0.32	2	68.38	70.25
Ni	-0.22	2	0.6910	0.665
Pb	-1.07	2	47.95	43.35
Pr	0.36	2	18.71	19.4
Rb	0.64	2	275.5	287.6
Sb	-	2	0.1800	
Sc	-0.06	2	2.400	2.381
Sm	0.1	2	14.92	15.08
Sn	0.84	2	6.250	6.89
Sr	-0.73	2	4.948	4.492
Ta	-0.05	2	4.275	4.247
Tb	0.94	2	1.671	1.902
Th	-0.72	2	29.70	27.39
Tl	-0.75	2	1.174	1.037
Tm	0.49	2	0.6200	0.675
U	-0.62	2	3.500	3.213
V	2.08	2	3.050	3.909
W	-0.62	2	1.905	1.719
Y	0.01	2	43.14	43.17
Yb	0.63	2	3.900	4.221
Zn	-0.35	2	168.0	163.6
Zr	-0.85	2	469.3	444

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