



# GeoPT

## Proficiency Testing Programme for Geochemical Laboratories

Organised by the International Association of Geoanalysts (IAG)

### Certificate of Performance



Subscriber: **GeoPT229**  
Round: **GeoPT56**

Laboratory Code: **W47**

Test Material: **GAK-1**  
Date: **December 2024**

Analyte	Z-Score	Data Quality	Consensus Value	Result Submitted
			g/100g	g/100g
SiO <sub>2</sub>	-0.15	2	70.68	70.45
TiO <sub>2</sub>	-0.03	2	0.5178	0.517
Al <sub>2</sub> O <sub>3</sub>	0.33	2	12.98	13.09
Fe <sub>2</sub> O <sub>3</sub> T	-0.32	2	5.060	5.01
MnO	-0.59	2	0.08900	0.086
MgO	0.72	2	0.3200	0.331
CaO	0.1	2	2.212	2.22
Na <sub>2</sub> O	0.13	2	3.345	3.36
K <sub>2</sub> O	0.24	2	3.900	3.93
P <sub>2</sub> O <sub>5</sub>	0.5	2	0.1520	0.156
			mg/kg	mg/kg
Ag	-	2	0.05690	
As	-	2	5.510	
Ba	-0.65	2	1588	1533.7
Be	-	2	2.943	
Bi	-	2	0.1622	
Cd	-	2	0.1162	
Ce	0.21	2	153.0	155.4
Co	-	2	3.064	
Cr	-0.16	2	533.1	527.6
Cs	-	2	3.748	
Cu	-	2	5.670	
Dy	-	2	9.670	
Er	-	2	5.539	
Eu	-	2	2.910	
Ga	0.03	2	19.64	19.7
Gd	-	2	10.73	
Hf	-	2	12.95	
Ho	-	2	1.937	

Analyte	Z-Score	Data Quality	Consensus Value	Result Submitted
			mg/kg	mg/kg
In	-	2	0.07525	
La	-0.06	2	82.13	81.7
Li	-	2	19.47	
Lu	-	2	0.7725	
Mo	-	2	2.605	
Nb	-1.19	2	19.80	17.4
Nd	-	2	64.80	
Ni	-	2	7.213	
Pb	0.41	2	40.00	41.5
Pr	-	2	17.26	
Rb	0.13	2	148.1	149.5
Sb	-	2	0.5350	
Sc	-	2	9.500	
Sm	-	2	12.05	
Sn	-	2	2.498	
Sr	0.09	2	195.0	196.3
Ta	-	2	1.318	
Tb	-	2	1.609	
Th	-	2	17.74	
Tl	-	2	0.7146	
Tm	-	2	0.8000	
U	-	2	4.224	
V	3.3	2	7.780	10.8
W	-	2	4.686	
Y	0.23	2	52.05	53.1
Yb	-	2	5.127	
Zn	-0.11	2	95.02	94.2
Zr	-0.72	2	503.0	480.4

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