



GeoPT

Proficiency Testing Programme for Geochemical Laboratories

Organised by the International Association of Geoanalysts (IAG)

Certificate of Performance



Subscriber: **GeoPT229**
Round: **GeoPT52**

Laboratory Code: **R88**

Test Material: **EMS-1**
Date: **December 2022**

Analyte	Z-Score	Data Quality	Consensus Value	Result Submitted
			g/100g	g/100g
SiO ₂	0.23	2	43.27	43.5
TiO ₂	0.18	2	0.4911	0.495
Al ₂ O ₃	0.43	2	7.890	7.99
Fe ₂ O ₃ T	0.26	2	8.152	8.215
MnO	-0.09	2	0.1015	0.101
MgO	0.18	2	1.252	1.26
CaO	-0.02	2	8.576	8.57
K ₂ O	-0.03	2	4.965	4.96
P ₂ O ₅	-0.37	2	0.8691	0.856
			mg/kg	mg/kg
Ag	-		1.881	
As	-0.68	2	158.7	150.6
Ba	-0.33	2	332.3	325
Be	-		1.845	
Bi	-		0.2138	
C(tot)	-		71350	
Cd	-		15.50	
Ce	0.13	2	116.0	117.2
Co	-		14.80	
Cr	-		48.00	
Cs	-		3.253	
Cu	0.29	2	98.05	100.3
Dy	-		12.24	
Er	-		6.244	
Eu	-		3.000	
Ga	-		10.88	
Gd	-		14.35	
Hf	-		3.827	
Hg	-		0.1850	
Ho	-		2.353	

Analyte	Z-Score	Data Quality	Consensus Value	Result Submitted
			mg/kg	mg/kg
In	-		0.1030	
La	-		46.65	
Li	-		13.52	
Lu	-		0.6490	
Mo	-0.02	2	534.9	534.2
Nb	-		9.500	
Nd	-		62.16	
Ni	-0.08	2	153.1	152.2
Pb	-		212.5	
Pd	-	2	3.866	205.5
Pr	-		14.67	
Rb	0.75	2	76.69	81.5
Sb	-		14.40	
Sc	-		9.300	
Se	-		4.390	
Sm	-		13.90	
Sn	-		1.858	
Sr	-0.01	2	73.24	73.2
Ta	-		0.7000	
Tb	-		2.099	
Th	-		12.00	
Tl	-		10.00	
Tm	-		0.8120	
U	-0.92	2	230.0	215
V	1.21	2	763.0	817.2
W	-		1.200	
Y	-0.32	2	74.00	72
Yb	-		4.762	
Zr	0.12	2	138.8	140.1

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