

Precise measurement of selenium isotopes by HG-MC-ICPMS using a 76-78 double-spike

Marie-Laure Pons^{a,b*}, Marc-Alban Millet^c, Geoff N. Nowell^d, Sambuddha Misra^{a,e} and Helen M. Williams^a

^aThe University of Cambridge, Department of Earth Sciences, Downing St, Cambridge CB2 3EQ, United Kingdom

^bCNRS, Aix Marseille Univ, IRD, INRA, Coll France, CEREGE, 13545, Aix en Provence, France

^cCardiff University, School of Earth and Ocean Sciences, Main Building, Park Pl, Cardiff CF10 3AT, United Kingdom

^dDurham University, Department of Earth Sciences, Elvet Hill, Durham DH1 3LE, United Kingdom

^eIndian Institute of Science, Centre for Earth Sciences, Bengaluru, India

*corresponding author dr.marie.laure.pons@gmail.com

Supplementary information

Table S1. $\delta^{82/78}\text{Se}_{\text{MERCK}}$. Merck Se solution calibration to Se NIST SRM-3149. Results obtained during all the analytical sessions.

Analytical session #	$\delta^{82/78}\text{Se}_{\text{MERCK}}$ average of analytical session	n	2 s.d.	$\delta^{82/78}\text{Se}_{\text{MERCK}}$ of single analyses
1	-0.9856	6	0.0293	-0.9877
				-0.9581
				-0.9837
				-0.9881
				-0.9981
				-0.9977
2	-0.9827	5	0.0240	-0.9739
				-0.9839
				-0.9939
				-0.9944
				-0.9675
3	-0.9860	7	0.0285	-0.9842
				-0.9666
				-0.9953
				-0.9853
				-1.0034
				-0.9686
4	-0.9891	4	0.0232	-0.9975
				-1.0005
				-0.9797
				-0.9784
5	-0.9964	5	0.0328	-1.0008
				-0.9887
				-0.9763
				-1.0207
				-0.9956

Analytical session #	$\delta^{82/78}\text{Se}_{\text{MERCK}}$ average of analytical session	n	2 s.d.	$\delta^{82/78}\text{Se}_{\text{MERCK}}$ of single analyses
6	-1.0060	6	0.015 3	-1.0072
				-1.0132
				-1.0015
				-1.0002
				-1.0165
				-0.9972
7	-1.0155	5	0.026 6	-1.0323
				-1.0178
				-1.0168
				-1.0158
				-0.9950
8	-0.9780	7	0.030 4	-0.9779
				-0.9947
				-0.9648
				-0.9830
				-0.9993
				-0.9613
9	-1.0268	5	0.029 8	-0.9650
				-1.0384
				-1.0270
				-1.0219
				-1.0045
10	-0.9865	4	0.030 7	-1.0421
				-0.9790
				-0.9697
				-0.9925
				-1.0047

Analytical session #	$\delta^{82/78}\text{Se}_{\text{MERCK}}$ average of analytical session	n	2 s.d.	$\delta^{82/78}\text{Se}_{\text{MERCK}}$ of single analyses
11	-0.9578	5	0.0292	-0.9537
				-0.9683
				-0.9773
				-0.9466
				-0.9430
12	-0.9697	9	0.0296	-0.9644
				-0.9691
				-0.9645
				-0.9644
				-0.9871
				-0.9682
				-0.9532
				-0.9644
				-0.9937
				-0.9644
-0.9947				
-0.9475				
13	-0.9799	3	0.0247	-0.9741
				-0.9941
				-0.9715
14	-0.9911	4	0.0162	-1.0015
				-0.9910
				-0.9903
				-0.9817
15	-0.9836	9	0.0236	-0.9882
				-0.9812
				-0.9992
				-0.9701
				-0.9812
				-1.0046
-0.9718				

-0.9890
-0.9670
-0.9724
-0.9881
-0.9902
