

Ref Echantillon		Al2O3	Al	As 75 ppm
AM01-1	Huarinilla	24,14	127800	7,5638
AM01-3	Yara	22,08	116894	5,9646
AM01-4	Coroico	20,57	108900	5,8748
AM01-5	Tipuani	22,8	120706	3,3267
AM01-6	Challana	25,15	133147	22,3052
AM01-7P	Mapiri	18,09	95771	14,1341
AM01-7G	Mapiri	22,42	118694	20,2103
AM01-8	Alto Beni	16	84706	21,8686
AM01-9	Qendeque	22,45	118853	16,4254
AM01-10	Chepete	23,79	125947	10,9692
AM01-11	Suapi	18,61	98524	12,7415
AM01-12	Quiquibey	18,86	99847	14,4596
AM01-13	Tuichi	21,48	113718	20,9307
AM01-14 bulk	Béni@Rure	16,99	89947	18,4057
AM01-14 F	Béni@Rure	20,42	108106	23,5413
AM01-14 M	Béni@Rure	12,75	67500	19,6097
AM01-14 G	Béni@Rure	6,95	36794	10,7571
AM01-14 1 m	Béni@Rure	18,22	96459	17,8159
AM01-14 3 m	Béni@Rure	18,37	97253	18,6651
AM01-14 5 m	Béni@Rure	18,33	97041	19,8453
AM01-14 7 m	Béni@Rure	18,84	99741	10,5965
AM01-15	madre de dios	19,24	101859	4,6334
AM01-16	Béni@Ribé	20,21	106994	5,4061
AM01-17	Orthon	16,95	89735	4,6983
AM01-19	Mamore	21,07	111547	5,0053
AM01-21	Madeira@Porto	20,79	110065	5,8958

ID:

Platform Holland 78

Geosyn. Holland 78

**UCC**

Phanerozoic

PAAS

Al

86294,1176

92964,7059

**80400**

94235,29412

100058,8235

Ba 137	Be 9	Bi 209	CaO	Ca	Cd 111
836,6129	4,6848	0,5875	< L.D.	#VALEUR!	< L.D.
621,5882	4,5835	0,56	0,18	1287	< L.D.
630,5017	4,2042	0,5007	< L.D.	#VALEUR!	< L.D.
572,4812	4,2762	0,6287	< L.D.	#VALEUR!	< L.D.
601,2379	2,9735	0,623	< L.D.	#VALEUR!	< L.D.
540,0623	3,8976	0,4621	0,2	1430	< L.D.
637,1405	3,9569	0,6354	0,45	3217	< L.D.
514,929	3,4668	0,4829	0,47	3360	< L.D.
519,3029	3,8351	0,5624	0,33	2359	< L.D.
634,3593	3,5436	0,6734	0,42	3002	< L.D.
577,889	3,5581	0,5153	0,63	4503	< L.D.
583,3303	3,6387	0,452	0,56	4003	< L.D.
849,4447	4,4424	0,5725	0,28	2001	< L.D.
549,8613	3,7973	0,5192	0,33	2359	< L.D.
670,8143	2,5132	0,7043	0,34	2430	< L.D.
443,4791	2,7557	0,4328	0,34	2430	< L.D.
259,9237	< L.D.	0,2198	0,21	1501	< L.D.
557,9546	3,2973	0,5357	0,34	2430	< L.D.
567,2179	3,7209	0,5937	0,31	2216	< L.D.
578,0981	3,5494	0,5712	0,34	2430	< L.D.
631,2711	4,3857	0,5227	0,33	2359	< L.D.
721,5927	3,9785	0,3719	0,69	4932	< L.D.
629,7272	4,373	0,5345	0,32	2287	< L.D.
641,6801	3,6463	0,2735	0,58	4146	< L.D.
673,213	3,4719	0,5375	0,43	3074	< L.D.
714,3079	3,6432	0,4915	0,45	3217	< L.D.

Ba

550  
551  
650

Ca

33952,76292  
29163,63636  
30000  
9292,335116  
9292,335116

Ce 140	Co 59	Cr 53	Cs 133	Cu 63	Dy 161
96,3196	18,0449	112,064	16,9094	29,0094	5,4577
99,2304	18,1218	108,4883	12,8953	30,3723	5,8997
87,1669	12,6803	88,7904	11,1213	27,1185	6,2499
112,9596	13,7709	89,6856	10,46	27,7249	6,171
177,9901	31,1716	98,9029	10,5246	60,9567	7,649
93,4042	16,792	80,3263	11,0156	28,4767	5,8259
111,9149	20,272	107,1573	20,4583	34,3458	6,1169
88,1065	14,7385	74,3138	10,6549	25,3307	6,6529
116,8952	15,8192	95,3827	12,6134	25,2131	6,9205
129,0593	18,2712	135,327	18,5735	30,8202	6,0729
98,205	17,0675	90,8573	10,4436	31,1444	6,3707
99,246	18,8856	87,3993	12,9324	30,2036	6,1169
96,1255	14,1272	97,583	14,0677	35,5295	6,2593
91,4668	15,2963	79,8776	12,8201	27,9678	6,3517
112,7631	19,7037	106,9438	16,609	53,7074	6,7989
75,7072	13,6297	67,9225	8,1697	35,9961	5,8296
62,1974	8,2077	37,5368	4,0465	18,216	3,1766
90,6932	15,3766	81,6414	13,0475	29,2206	5,8295
90,346	15,6426	81,9867	13,6375	30,6023	5,7483
92,3759	15,9261	84,9733	13,2859	30,2034	6,2009
102,7315	17,2137	88,3811	14,8788	31,3508	6,5939
105,1391	19,7722	94,1436	10,2174	35,141	6,8784
106,2654	16,9146	95,4801	15,3678	27,2045	6,1493
85,0261	20,929	72,593	9,2021	22,954	5,4796
120,0515	18,8628	105,1828	13,8676	25,7764	6,0891
110,6433	18,9725	98,907	13,8357	30,3125	6,4654

Ce	Co	Cr	Cs	Cu	Dy
	<b>64</b>	<b>10</b>	<b>35</b>	<b>3,7</b>	<b>25</b>
	82	20	104		
	80	23	110		<b>3,5</b>

Er 166	Eu 151	Fe2O3	Fe	Ga 71	Gd 157
2,7876	1,9584	6,92	48510	34,8392	7,297
3,2645	1,7523	7,93	55590	32,2764	7,3237
3,1173	1,7511	7	49070	28,3266	7,0664
3,3981	1,6753	7,2	50472	31,2227	7,12
3,4777	2,3417	10,35	72554	31,3723	9,3478
3,1869	1,5847	6,77	47458	25,2065	6,6076
3,2736	2,0196	8,14	57062	31,4471	7,1468
3,6124	1,6668	6,36	44584	22,2415	6,887
3,6723	2,0929	7,33	51384	31,0276	8,6922
3,2314	1,8599	8,31	58254	36,6844	7,1702
3,2633	1,7748	6,51	45635	26,6299	7,2704
3,3029	1,8103	6,94	48650	26,8445	6,8167
3,4031	1,6795	7,17	50262	31,9772	6,8322
3,4376	1,6287	6,38	44724	24,2705	6,7469
3,6583	1,8783	7,17	50262	30,9197	7,8551
3,3613	1,3138	5,53	38766	18,8576	5,9625
1,8448	1,0299	3,64	25517	9,7283	3,7387
3,3767	1,6603	6,63	46477	24,064	6,0878
3,2079	1,595	6,61	46336	24,636	6,1816
3,3799	1,6485	6,64	46547	24,5589	6,6492
3,1752	1,6283	6,79	47598	27,2073	7,2247
3,5641	1,7761	7,66	53697	26,9921	7,3974
3,3457	1,6494	7,15	50122	29,5038	7,4662
2,9453	1,4241	7,54	52856	24,3357	6,0734
3,3958	2,0005	7,89	55309	33,2802	7,901
3,439	2,0088	7,73	54188	30,5192	7,5675

Er	Eu		Fe		Gd
			17830,8271		
			25242,8571		
	<b>2,3</b>	<b>0,88</b>	<b>35000</b>		<b>3,8</b>
		1,14	41185,71429		5,22
		1,1	45451,12782		4,7

Ge 74	Hf 180	Ho 165	In 115	K20	K
2,2575	3,9743	1,0626	0,3947	4,57	37938
2,2315	4,1864	1,0937	0,326	3,82	31712
1,9425	4,8445	1,2308	0,2901	3,75	31131
2,1751	5,7313	1,2113	0,1974	3,44	28557
2,573	3,2127	1,3675	0,1079	3,27	27146
1,8384	6,42	1,1191	< L.D.	3,22	26731
2,2272	4,3497	1,2028	0,1061	4,06	33704
1,7826	7,7173	1,4014	< L.D.	3,12	25901
2,337	5,0564	1,2601	< L.D.	3,7	30715
2,3625	3,4665	1,2186	0,1214	4,51	37440
1,9318	4,3162	1,2071	0,1002	3,38	28059
2,051	4,524	1,1757	0,1012	3,44	28557
2,34	4,5274	1,2136	0,1206	3,79	31463
2,1141	6,8421	1,2852	0,1023	3,24	26897
2,3996	4,6783	1,3833	0,1203	3,92	32542
2,047	6,6288	1,2061	< L.D.	2,44	20256
1,4938	5,2857	0,6686	< L.D.	1,32	10958
1,8255	5,5117	1,2348	0,122	3,5	29055
1,8487	5,4286	1,2067	< L.D.	3,52	29221
2,0463	6,0293	1,2507	0,1008	3,54	29387
2,1877	5,3375	1,1823	0,1495	3,58	29719
2,1344	5,1282	1,277	0,1238	2,94	24406
2,0987	4,667	1,2024	0,1292	3,81	31629
1,8133	4,3091	1,038	0,1413	2,19	18180
2,3973	4,1528	1,2195	0,1579	3,68	30549
2,2037	4,6224	1,2791	0,117	3,64	30217

Hf

Ho

K

5,8

0,8

4,6

5

15191,7197

22912,1019

28000

32000

30830

La 139	Lu 175	MgO	Mg	MnO	Mn
48,3263	0,4698	0,84	5065	0,05	387
49,4327	0,5211	1,5	9045	0,04	310
44,1145	0,5043	1,26	7598	0,04	310
53,276	0,5274	0,54	3256	< L.D.	#VALEUR!
91,8083	0,4795	0,6	3618	0,04	310
45,0827	0,5276	1,1	6633	0,05	387
53,8371	0,4884	1,59	9587	0,05	387
42,7908	0,5765	1,43	8623	0,05	387
55,7364	0,5347	1,57	9467	0,04	310
62,7308	0,5189	2,28	13748	0,04	310
47,2643	0,4677	1,55	9346	0,06	465
47,003	0,4818	1,53	9226	0,08	619
45,9984	0,5377	1,07	6452	0,04	310
45,3771	0,5535	1,29	7778	0,05	387
55,2402	0,58	1,48	8924	0,06	465
36,6745	0,4873	1,07	6452	0,04	310
29,666	0,3178	0,58	3497	< L.D.	#VALEUR!
43,8038	0,5071	1,35	8140	0,06	465
44,1852	0,5236	1,34	8080	0,06	465
45,9176	0,5839	1,35	8140	0,06	465
50,2537	0,4961	1,36	8200	0,06	465
51,1038	0,5106	1,56	9406	0,09	697
51,6632	0,488	1,43	8623	0,06	465
40,5734	0,4264	1,19	7175	0,13	1007
58,1108	0,4922	1,63	9829	0,07	542
53,1901	0,5578	1,56	9406	0,07	542

La

Lu

Mg

30  
38,8  
38

0,32  
0,47  
0,43

14833,2506  
15195,0372  
13300  
13868,4864  
13265,5087

Mo 98	Na2O	Na	Nb 93	Nd 145	Ni 60
0,7013	0,71	5268	19,2042	42,3211	36,1634
0,7142	0,79	5861	18,2607	44,5788	44,4126
0,6838	0,71	5268	17,7256	40,3357	32,5301
0,7324	0,4	2968	19,039	43,3127	38,307
1,5812	0,37	2745	16,3401	66,4016	65,8799
0,9762	0,63	4674	16,5234	40,6957	35,0847
1,589	0,76	5639	16,1622	48,7716	43,9273
0,7556	0,93	6900	16,4271	39,6621	31,4937
0,9189	0,38	2819	17,373	51,487	35,4713
0,8224	0,55	4081	18,1692	55,0791	45,7397
1,2956	0,3	2226	15,8564	45,7082	41,1492
1,0549	0,4	2968	17,0096	43,7434	38,293
2,9284	0,71	5268	18,7488	45,3383	28,7427
0,9571	0,85	6306	17,099	43,4479	32,9564
1,2826	0,81	6010	20,3508	49,667	39,3295
0,8932	0,8	5935	15,3615	33,5936	29,8208
0,6351	0,43	3190	8,7031	27,0992	18,1889
1,2978	0,85	6306	15,9331	40,3626	37,0265
0,9762	0,85	6306	16,3359	38,7881	35,3436
1,186	0,87	6455	16,9742	40,7315	36,4459
1,5067	0,85	6306	17,3051	43,5394	77,3919
0,8986	0,71	5268	20,7859	44,3092	44,1294
0,5191	0,75	5565	17,522	47,1104	40,1746
< L.D.	0,43	3190	18,4608	36,5719	35,1529
0,5579	0,59	4377	17,462	51,7471	44,2686
0,7249	0,68	5045	19,1777	48,2283	43,6411

Na	Nb	Nd	Ni
4303,22581			
9422,58065			
<b>28900</b>		<b>25</b>	<b>26</b>
8160		15,4	32,3
8903		19	32
			<b>20</b>
			54
			55

P205	P	Pb Total	PF	Pr 141	Rb 85
0,18	786	35,8515	7,53	11,0629	215,9073
0,17	742	31,0554	7,27	11,7434	190,7615
0,16	699	30,303	5,62	10,7936	171,8685
0,13	568	35,8437	7,06	11,9222	165,048
0,22	961	37,4296	8,87	19,2088	160,1025
0,15	655	25,6196	5,89	10,5692	150,5027
0,2	873	31,4566	7,43	13,1896	184,6689
0,17	742	29,1788	5,27	10,2543	136,736
0,19	830	31,91	9,63	14,0926	161,1135
0,21	917	27,7533	8,99	14,7073	236,8601
0,19	830	30,9436	14,23	11,8332	164,8179
0,17	742	31,811	8,53	11,695	170,32
0,21	917	37,0617	7,68	11,6507	184,5668
0,16	699	29,4478	5,59	11,1082	149,9135
0,18	786	49,3583	7,3	13,494	191,1521
0,13	568	27,6047	5,38	8,9911	113,9071
0,09	393	16,1272	2,69	7,3207	63,4729
0,17	742	29,551	5,71	10,9789	149,4137
0,16	699	30,9972	5,67	10,7353	155,6974
0,17	742	30,4763	5,76	11,1906	158,5122
0,18	786	26,3539	6,53	11,8193	179,614
0,21	917	25,6444	8,32	11,8067	149,1383
0,19	830	29,9429	6,9	12,0848	187,0882
0,19	830	31,4151	12,9	9,6077	130,0748
0,23	1004	30,6851	10,17	13,5871	185,711
0,21	917	30,2531	7,95	12,4936	181,2166

Pb

Pr

Rb

20

22

20

7,1

112

163

160



Sb 121	SiO2 %	Si	Sm 147	Sn 118	Sr 86
4,9022	53,97	251860	8,7488	24,4276	107,6388
1,0845	55,2	257600	8,3641	7,9951	109,3657
7,1778	59,79	279020	7,784	6,3434	106,038
1,0118	57,39	267820	8,1047	6,5594	106,9399
1,2706	50,19	234220	11,4699	6,3318	142,6494
2,2565	62,93	293673	7,6021	5,362	99,1552
1,7736	54	252000	9,0371	6,2168	127,5475
2,7615	65,27	304593	8,1608	5,5036	101,2349
0,841	53,35	248967	10,4081	5,9001	116,558
1,5872	49,84	232587	10,0319	7,3783	127,0919
1,0988	53,65	250367	9,2585	6,77	123,2929
1,4272	58,54	273187	9,2039	5,8119	124,2402
3,0506	56,54	263853	8,7185	5,0018	133,5885
2,6134	64,18	299507	8,374	5,5276	108,5435
2,9314	57,26	267213	9,5829	7,071	132,913
2,321	70,66	329747	6,3933	5,6665	89,0047
1,325	83,44	389387	5,3583	3,0064	53,5739
2,3533	62,22	290360	7,9269	5,6915	105,1842
2,3486	62,16	290080	7,8955	4,8356	107,0001
2,3636	61,96	289147	7,949	5,2582	109,0975
2,3949	60,52	282427	8,8557	4,7626	114,9746
1,0622	57,53	268473	8,9522	4,2129	133,408
2,3214	58,21	271647	8,856	5,4086	121,886
0,9126	56,87	265393	7,272	6,3346	105,0546
1,1554	53,29	248687	10,1223	6,0012	121,8072
1,7827	55,92	260960	9,417	5,4256	130,7559

Sb	Si	Sm	Sr
	257086,667		
	260213,333		
<b>0,2</b>	<b>308000</b>	<b>4,5</b>	<b>350</b>
	296800	5,75	136
	293066,6667	5,6	200

Ta 181	Tb 159	Th 232	TiO2	Ti	Tm 169
1,8225	0,9977	19,4439	0,92	5515	0,4421
1,7147	1,0395	18,6375	0,88	5276	0,4874
1,6657	1,0529	17,7288	0,88	5276	0,4608
1,9613	1,0825	19,1794	0,85	5096	0,4839
1,4904	1,3595	22,1299	0,73	4376	0,4928
1,4943	1,005	15,9804	0,82	4916	0,4593
1,4705	1,0898	19,9512	0,78	4676	0,483
1,6191	1,1006	16,4488	0,78	4676	0,5476
1,6506	1,1943	20,4645	0,87	5216	0,5219
1,5657	1,094	19,8955	0,93	5575	0,5212
1,3784	1,1027	15,8038	0,73	4376	0,488
1,4645	1,0932	16,4271	0,8	4796	0,4929
1,6495	1,1269	19,5946	0,91	5455	0,5253
1,5329	1,0646	15,8525	0,81	4856	0,5588
1,7832	1,1657	18,4942	0,92	5515	0,5327
1,3933	0,9594	12,6827	0,71	4256	0,509
0,7938	0,6093	7,884	0,44	2638	0,3189
1,4598	0,992	15,8469	0,81	4856	0,4869
1,467	1,0047	16,5179	0,82	4916	0,5105
1,5366	1,0465	16,3491	0,84	5036	0,5436
1,4914	1,113	16,7003	0,84	5036	0,4994
1,7298	1,1453	16,1756	0,93	5575	0,5601
1,5409	1,0651	17,3871	0,84	5036	0,4868
1,4813	0,9155	12,8851	0,9	5395	0,4242
1,4955	1,1867	18,0248	0,82	4916	0,4977
1,7347	1,1925	17,6717	0,88	5276	0,5352

Ta	Tb	Th	Ti	Tm
			2937,546934	
			4256,445557	
	<b>1,4</b>	<b>0,64</b>		<b>3000</b>
	1,4	0,81		4916
	1,2	0,77		5995
		<b>10,7</b>		<b>0,33</b>
		13,5		
		14,6		

U 238	V 51	W 184	Y 89	Yb 174	Zn 66
3,2069	143,7378	2,3861	30,016	2,9151	106,1821
3,3793	150,3496	2,513	31,9261	3,2302	125,0679
3,4811	121,5129	2,6069	32,471	3,2872	107,7892
4,5111	127,9986	4,9159	33,8445	3,5461	80,1312
5,0786	127,7573	5,5085	36,511	3,5166	128,4933
3,5833	110,4964	2,8111	33,6963	3,3207	92,054
3,9034	149,2696	3,1237	32,3372	3,2901	105,719
3,7197	106,702	3,195	36,4231	3,966	106,7913
3,9211	136,1665	3,0127	34,8272	3,6729	95,7953
3,9129	189,03	2,8071	34,3604	3,5335	102,6143
3,8397	121,5666	2,2257	35,0731	3,2635	121,7901
3,6003	123,8488	2,4557	34,5939	3,3481	114,6556
3,8788	140,3886	3,5161	34,4057	3,3753	91,6342
3,5784	111,5511	2,9995	36,0195	3,474	104,6279
3,8299	142,1405	3,7404	39,0892	3,9376	142,2447
3,267	89,8756	4,0392	34,738	3,4765	103,6148
1,9447	46,7924	2,1334	18,973	2,0244	64,36
3,2815	107,8214	2,9011	32,2015	3,5408	121,1058
3,3509	113,9872	3,3492	32,6316	3,3901	109,055
3,397	119,5134	3,2947	34,7313	3,6875	109,4689
3,4554	125,1607	2,6647	36,0582	3,5249	118,3701
3,6218	146,0635	2,0888	38,038	3,4991	120,5074
3,5724	135,6589	2,682	35,417	3,3014	122,662
2,7513	131,5787	1,665	32,2224	2,845	129,7935
3,6392	157,4465	2,3211	36,4635	3,3845	127,37
3,8279	145,7388	2,5318	37,4661	3,5978	128,5675

U

Y

Yb

2,8

2,9

3,1

22

33

27

2,2

2,95

2,8

Zr 90	Al/Mg	Ti/Ca	Sm/Na	Th/K
150,4425	25,2319224	#VALEUR!	0,001660825	0,000512521
150,1629	12,92409586	4,100316584	0,001427007	0,000587717
184,1982	14,33362728	#VALEUR!	0,001477673	0,000569498
211,298	37,07092714	#VALEUR!	0,002730932	0,000671616
126,4337	36,80265069	#VALEUR!	0,004178224	0,000815222
239,2943	14,43903743	3,43867459	0,001626398	0,000597828
152,7983	12,38029076	1,453748607	0,001602689	0,000591953
284,1038	9,823727471	1,391886964	0,001182725	0,000635073
173,2819	12,55477846	2,211121133	0,00369166	0,00066626
132,6987	9,161191377	1,857123908	0,00245841	0,000531401
171,9544	10,5416122	0,971828281	0,004159616	0,000563234
180,1122	10,82287439	1,198144456	0,003101314	0,000575237
175,5602	17,62555739	2,725778639	0,001655073	0,00062279
265,2208	11,56367905	2,058630021	0,001327847	0,000589382
186,8301	12,11396691	2,269426559	0,001594578	0,000568321
265,9165	10,46209761	1,751405279	0,001077132	0,000626132
205,1582	10,52080986	1,757278536	0,001679548	0,000719477
208,1999	11,84968934	1,998082079	0,001256951	0,000545407
211,3313	12,03640295	2,218499736	0,001251972	0,00056527
229,3298	11,92122973	2,072085119	0,001231479	0,000556333
207,5146	12,16282199	2,134875577	0,001404229	0,000561934
208,5553	10,82861293	1,130423248	0,001699438	0,000662761
175,8058	12,40859576	2,201590439	0,001591513	0,000549726
182,3135	12,50590432	1,301432772	0,002279393	0,000708741
164,2628	11,34930564	1,59938353	0,00231239	0,00059002
178,2865	11,70098039	1,640126634	0,001866541	0,000584818

Zr

	5,817613405	0,086518642	0	0
	6,118096621	0,14595044	0	0
<b>190</b>	<b>6,045112782</b>	<b>0,1</b>	<b>0,000155709</b>	<b>0,000382143</b>
201	6,7949228	0,529038174	0,000704657	0,000421875
210	7,542780749	0,645155381	0,000629001	0,000473565

Nd/Sr	Th/Ba	Th/U	Yb/Ca
0,393176996	0,023241215	6,063145093	
0,407612259	0,029983677	5,515195455	0,002510588
0,380389106	0,02811856	5,092872942	
0,405019081	0,033502236	4,251601605	
0,465488113	0,036807227	4,357480408	
0,410424264	0,02958992	4,459687997	0,002322834
0,382379898	0,031313658	5,111236358	0,001022857
0,391782873	0,031943821	4,422077049	0,00118052
0,441728581	0,039407637	5,219071179	0,00155709
0,433380097	0,031363141	5,084591991	0,001176994
0,370728566	0,027347466	4,115894471	0,000724705
0,352087328	0,028160889	4,562703108	0,000836429
0,339387747	0,02306754	5,051717026	0,001686448
0,400280993	0,028829998	4,430052537	0,001472768
0,373680528	0,027569776	4,828898927	0,001620209
0,377436248	0,028598191	3,882063055	0,00143048
0,505828398	0,030331978	4,054095747	0,001348638
0,383732538	0,028401773	4,829163492	0,001456938
0,362505269	0,029120908	4,929392104	0,001529922
0,373349527	0,02828084	4,812805417	0,0015173
0,378687119	0,026455037	4,833101812	0,001494347
0,332133006	0,022416524	4,466177039	0,000709456
0,386511987	0,027610527	4,867064159	0,001443333
0,348122786	0,020080255	4,683276996	0,000686235
0,424827925	0,02677429	4,952956694	0,001101145
0,368842247	0,024739612	4,616552157	0,001118518

#DIV/0!	#DIV/0!	#DIV/0!	0
#DIV/0!	#DIV/0!	#DIV/0!	0
<b>0,074285714</b>	<b>0,019454545</b>	<b>3,821428571</b>	<b>7,33333E-05</b>
0,2375	0,024500907	4,655172414	0,000317466
0,16	0,022461538	4,709677419	0,000301324

alpha Mg	alpha Ca	alpha Na	alpha K	alpha Sr	alpha Ba
4,173937412		10,66619027	1,34117541	5,292767249	1,194641875
2,137941231	41,00316584	9,164553525	1,537951702	5,487088098	1,541217057
2,371109985		9,489944342	1,490275207	5,120622578	1,445346552
6,132379738		17,53864911	1,757498559	5,452179934	1,722077527
6,088000674		26,83348586	2,133291005	6,266186134	1,891960278
2,388547237	34,3867459	10,4450907	1,564408538	5,524942018	1,520977172
2,047983422	14,53748607	10,29282722	1,549035576	5,1474217	1,609580574
1,625069345	13,91886964	7,595720451	1,661873755	5,274000217	1,641972127
2,07684768	22,11121133	23,70866206	1,743483403	5,946346289	2,025626183
1,515470713	18,57123908	15,78845711	1,390582372	5,83396285	1,612124056
1,743823909	9,718282814	26,71397794	1,473883741	4,990576848	1,405710889
1,790351112	11,98144456	19,91732853	1,505292375	4,739637102	1,447522347
2,915670563	27,25778639	10,62924971	1,629729758	4,568681206	1,185714697
1,912897156	20,58630021	8,527725604	1,542308155	5,388397987	1,481915768
2,003927362	22,69426559	10,24073491	1,487194896	5,030314798	1,41713802
1,730670376	17,51405279	6,917581486	1,638476801	5,080872566	1,470000471
1,740382725	17,57278536	10,78643067	1,8827432	6,809228432	1,559120374
1,960209804	19,98082079	8,072417971	1,427232335	5,165630316	1,459904229
1,991096508	22,18499736	8,040441546	1,479212515	4,879878617	1,496869077
1,972044221	20,72085119	7,908833472	1,455824392	5,025859015	1,453688049
2,012009111	21,34875577	9,018268406	1,470481786	5,097711214	1,359838325
1,791300397	11,30423248	10,91416749	1,734328943	4,471021228	1,152251228
2,052665717	22,01590439	10,22105043	1,438535486	5,203045974	1,419232708
2,06876278	13,01432772	14,63877048	1,854650504	4,686268269	1,032162637
1,877434888	15,9938353	14,85068136	1,543977756	5,718837449	1,376248544
1,93560994	16,40126634	11,98734058	1,530366146	4,965184098	1,271662278
0,962366397	0,865186418	0	0	#DIV/0!	#DIV/0!
1,012073197	1,459504399	0	0	#DIV/0!	#DIV/0!
1	1	1	1	1	1
1,124035737	5,290381738	4,525462963	1,103971963	3,197115385	1,259392439
1,247748557	6,451553808	4,039587155	1,239234754	2,153846154	1,154565061

alpha U	alpha Ca (Yb)
1,586617408	
1,443228717	34,23528678
1,332714415	
1,112568644	
1,140275247	
1,167021158	31,67500623
1,337519795	13,94805486
1,157179041	16,09799968
1,365738252	21,23304239
1,330547437	16,04991984
1,077056497	9,882347702
1,193978383	11,40584476
1,321944642	22,99701193
1,159266085	20,08320109
1,263637102	22,09376559
1,015866968	19,50654613
1,060884868	18,39052369
1,263706334	19,86733167
1,289934382	20,86257341
1,259425716	20,69046135
1,264736923	20,37745409
1,168719225	9,674406375
1,273624266	19,68181889
1,225530429	9,357747872
1,296100817	15,01561503
1,208069723	15,2525187

#DIV/0!	0
#DIV/0!	0
1	1
1,218175959	4,329081143
1,232438951	4,108958373

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