

	JendaJohnson	Sylvana Bendana	Nicole Moore			
Sample	Collected by	Area	GPS		Section	Elevation (m)
MF9463	JendaJohnson	Little Alvord Creek and Pike Creek	42.600217	-118.569514	Lower	1975
MF9464	JendaJohnson	Little Alvord Creek and Pike Creek	42.600217	-118.569514	Lower	1995
MF9465	JendaJohnson	Little Alvord Creek and Pike Creek	42.600217	-118.569514	Lower	1996
MF9466	JendaJohnson	Little Alvord Creek and Pike Creek	42.600217	-118.569514	Lower	1997
MF9467	JendaJohnson	Little Alvord Creek and Pike Creek	42.600217	-118.569514	Lower	2033
MF9468	JendaJohnson	Little Alvord Creek and Pike Creek	42.600217	-118.569514	Lower	2073
MF9469	JendaJohnson	Little Alvord Creek and Pike Creek	42.600217	-118.569514	Lower	2079
MF9470	JendaJohnson	Little Alvord Creek and Pike Creek	42.600217	-118.569514	Lower	2070
MF9471a	JendaJohnson	Little Alvord Creek and Pike Creek	42.600217	-118.569514	Lower	2085
MF9471b	JendaJohnson	Little Alvord Creek and Pike Creek	42.600217	-118.569514	Lower	2085
MF9471c	JendaJohnson	Little Alvord Creek and Pike Creek	42.600217	-118.569514	Lower	2088
MF9472	JendaJohnson	Little Alvord Creek and Pike Creek	42.600217	-118.569514	Lower	2100
JS1	JendaJohnson	Little Alvord Creek and Pike Creek	42.600217	-118.569514	Lower	2057
JS2	JendaJohnson	Little Alvord Creek and Pike Creek	42.600217	-118.569514	Lower	2115
JS3	JendaJohnson	Little Alvord Creek and Pike Creek	42.600217	-118.569514	Lower	2121
JS4	JendaJohnson	Little Alvord Creek and Pike Creek	42.600217	-118.569514	Lower	2128
JS5	JendaJohnson	Little Alvord Creek and Pike Creek	42.600217	-118.569514	Lower	2129
JS6	JendaJohnson	Little Alvord Creek and Pike Creek	42.600217	-118.569514	Lower	2132
JS7	JendaJohnson	Little Alvord Creek and Pike Creek	42.600217	-118.569514	Lower	2137
JS8	JendaJohnson	Little Alvord Creek and Pike Creek	42.600217	-118.569514	Lower	2140
JS9	JendaJohnson	Little Alvord Creek and Pike Creek	42.600217	-118.569514	Lower	2141
JS10	JendaJohnson	Little Alvord Creek and Pike Creek	42.600217	-118.569514	Lower	2149
JS11	JendaJohnson	Little Alvord Creek and Pike Creek	42.600217	-118.569514	Lower	2152
JS12	JendaJohnson	Little Alvord Creek and Pike Creek	42.600217	-118.569514	Lower	2153
JS13	JendaJohnson	Little Alvord Creek and Pike Creek	42.600217	-118.569514	Lower	2158
JS14	JendaJohnson	Little Alvord Creek and Pike Creek	42.600217	-118.569514	Lower	2161
JS15	JendaJohnson	Little Alvord Creek and Pike Creek	42.600217	-118.569514	Lower	2170
JS16	JendaJohnson	Little Alvord Creek and Pike Creek	42.600217	-118.569514	Lower	2173
JS17	JendaJohnson	Little Alvord Creek and Pike Creek	42.600217	-118.569514	Lower	2195
JS18	JendaJohnson	Little Alvord Creek and Pike Creek	42.600217	-118.569514	Lower	2205
JS19	JendaJohnson	Little Alvord Creek and Pike Creek	42.600217	-118.569514	Lower	2213
JS20	JendaJohnson	Little Alvord Creek and Pike Creek	42.600217	-118.569514	Lower	2219
JS21	JendaJohnson	Little Alvord Creek and Pike Creek	42.600217	-118.569514	Lower	2240

Sample	Collected by	Area	GPS		Section	Elevation (m)
JS22	JendaJohnson	Little Alvord Creek and Pike Creek	42.600217	-118.569514	Lower	2249
JS23	JendaJohnson	Little Alvord Creek and Pike Creek	42.600217	-118.569514	Lower	2262
JS24	JendaJohnson	Little Alvord Creek and Pike Creek	42.600217	-118.569514	Lower	2277
JS25	JendaJohnson	Little Alvord Creek and Pike Creek	42.600217	-118.569514	Lower	2286
JS26	JendaJohnson	Little Alvord Creek and Pike Creek	42.600217	-118.569514	Lower	2301
JS27	JendaJohnson	Little Alvord Creek and Pike Creek	42.600217	-118.569514	Lower	2304
JS28	JendaJohnson	Little Alvord Creek and Pike Creek	42.600217	-118.569514	Lower	2316
JS29	JendaJohnson	Little Alvord Creek and Pike Creek	42.600217	-118.569514	Lower	2316
JS30	JendaJohnson	Little Alvord Creek and Pike Creek	42.600217	-118.569514	Lower	2316
JS31	JendaJohnson	Wildhorse Canyon	42.614894	-118.585602	Upper	2310
JS32	JendaJohnson	Wildhorse Canyon	42.614894	-118.585602	Upper	2321
JS33	JendaJohnson	Wildhorse Canyon	42.614894	-118.585602	Upper	2329
JS34	JendaJohnson	Wildhorse Canyon	42.614894	-118.585602	Upper	2347
JS36	JendaJohnson	Wildhorse Canyon	42.614894	-118.585602	Upper	2362
JS37	JendaJohnson	Wildhorse Canyon	42.614894	-118.585602	Upper	2368
JS38	JendaJohnson	Wildhorse Canyon	42.614894	-118.585602	Upper	2384
JS39	JendaJohnson	Wildhorse Canyon	42.614894	-118.585602	Upper	2393
JS40	JendaJohnson	Wildhorse Canyon	42.614894	-118.585602	Upper	2432
JS41	JendaJohnson	Wildhorse Canyon	42.614894	-118.585602	Upper	2475
JS43	JendaJohnson	Wildhorse Canyon	42.614894	-118.585602	Upper	2505
JS44	JendaJohnson	Wildhorse Canyon	42.614894	-118.585602	Upper	2557
JS45	JendaJohnson	Wildhorse Canyon	42.614894	-118.585602	Upper	2573
JS46	JendaJohnson	Wildhorse Canyon	42.614894	-118.585602	Upper	2597
JS47	JendaJohnson	Wildhorse Canyon	42.614894	-118.585602	Upper	2603
JS48	JendaJohnson	Wildhorse Canyon	42.614894	-118.585602	Upper	2606
JS49	JendaJohnson	Wildhorse Canyon	42.614894	-118.585602	Upper	2609
JS50	JendaJohnson	Wildhorse Canyon	42.614894	-118.585602	Upper	2615
JS51	JendaJohnson	Wildhorse Canyon	42.614894	-118.585602	Upper	2637
JS52	JendaJohnson	Wildhorse Canyon	42.614894	-118.585602	Upper	2621
JS53	JendaJohnson	Wildhorse Canyon	42.614894	-118.585602	Upper	2649
JS54	JendaJohnson	Wildhorse Canyon	42.614894	-118.585602	Upper	2661
JS55	JendaJohnson	Wildhorse Canyon	42.614894	-118.585602	Upper	2676
JS56	JendaJohnson	Wildhorse Canyon	42.614894	-118.585602	Upper	2679
JS57	JendaJohnson	Wildhorse Canyon	42.614894	-118.585602	Upper	2697

Sample	Collected by	Area	GPS		Section	Elevation (m)
JS58	JendaJohnson	Wildhorse Canyon	42.614894	-118.585602	Upper	2737
JS59	JendaJohnson	Wildhorse Canyon	42.614894	-118.585602	Upper	2765
JS60	JendaJohnson	Wildhorse Canyon	42.614894	-118.585602	Upper	2786
JS61	JendaJohnson	Wildhorse Canyon	42.614894	-118.585602	Upper	2816
JS63	JendaJohnson	Wildhorse Canyon	42.614894	-118.585602	Upper	2841
JS64	JendaJohnson	Wildhorse Canyon	42.614894	-118.585602	Upper	2844
JS65	JendaJohnson	Wildhorse Canyon	42.614894	-118.585602	Upper	2847
JS66	JendaJohnson	Wildhorse Canyon	42.614894	-118.585602	Upper	2865
JS72	JendaJohnson	Wildhorse Canyon	42.614894	-118.585602	Upper	2963
STM 1c	JendaJohnson	Wildhorse Canyon	42.614894	-118.585602	Upper	2914
STM 4	JendaJohnson	Wildhorse Canyon	42.6407	-118.58021	Upper	2921
STM 6	JendaJohnson	Wildhorse Canyon	42.63992	-118.58003	Upper	2939
STM 9	JendaJohnson	Wildhorse Canyon	42.614894	-118.585602	Upper	2886
STM 10	SylvanaBendana	Kiger Gorge	42.7146	-118.57209	Upper	2378
STM 11	SylvanaBendana	Kiger Gorge	42.71475	-118.57224	Upper	2387
STM 12b	SylvanaBendana	Kiger Gorge	42.71485	-118.57256	Upper	2396
STM 13	SylvanaBendana	Kiger Gorge	42.71496	-118.57268	Upper	2403
STM 15	SylvanaBendana	Kiger Gorge	42.71544	-118.57265	Upper	2427
STM 18	SylvanaBendana	Kiger Gorge	42.71589	-118.57348	Upper	2460
STM 21b	SylvanaBendana	Kiger Gorge	42.71677	-118.57548	Upper	2492
STM 25	SylvanaBendana	Kiger Gorge	42.71642	-118.57546	Upper	2497
STM 29	SylvanaBendana	Kiger Gorge	42.71638	-118.57553	Upper	2510
STM 33	SylvanaBendana	Kiger Gorge	42.71636	-118.57601	Upper	2527
STM 34	SylvanaBendana	Kiger Gorge	42.71637	-118.57605	Upper	2529
STM 37	SylvanaBendana	Kiger Gorge	42.71631	-118.5762	Upper	2544
STM 40	SylvanaBendana	Kiger Gorge	42.71643	-118.57657	Upper	2589
STM 41	SylvanaBendana	Kiger Gorge	42.71643	-118.57657	Upper	2590
STM 44	SylvanaBendana	Kiger Gorge	42.71596	-118.57743	Upper	2594
STM 48	SylvanaBendana	Kiger Gorge	42.71599	-118.577808	Upper	2609
NMSB-5	Nicole Moore	JJ Transect Repeats	42.5962066	-118.5495541	Lower	2000
NMSB-6	Nicole Moore	JJ Transect Repeats	42.5960817	-118.5497548	Lower	2008

Sample	Collected by	Area	GPS		Section	Elevation (m)
NMSB-7	Nicole Moore	JJ Transect Repeats	42.5959274	-118.5501618	Lower	2028
NMSB-8	Nicole Moore	JJ Transect Repeats	42.5959274	-118.5501618	Lower	2028
NMSB-9	Nicole Moore	JJ Transect Repeats	42.5960381	-118.5504239	Lower	2042
NMSB-11	Nicole Moore	JJ Transect Repeats	42.5966775	-118.5514815	Lower	2075
NMSB-13	Nicole Moore	JJ Transect Repeats	42.5984034	-118.5558017	Lower	2065
NMSB-14	Nicole Moore	JJ Transect Repeats	42.5983757	-118.5560089	Lower	2086
NMSB-15	Nicole Moore	JJ Transect Repeats	42.5984277	-118.5561551	Lower	2094
NMSB-16	Nicole Moore	JJ Transect Repeats	42.5984677	-118.5563049	Lower	2100
NMSB-17	Nicole Moore	JJ Transect Repeats	42.5985532	-118.5563977	Lower	2097
NMSB-18	Nicole Moore	JJ Transect Repeats	42.5985532	-118.5563977	Lower	2098
NMSB-19	Nicole Moore	JJ Transect Repeats	42.599485	-118.5626577	Lower	2121
NMSB-20A	Nicole Moore	JJ Transect Repeats	42.6000785	-118.5636139	Lower	2216
NMSB-21	Nicole Moore	JJ Transect Repeats	42.6000785	-118.5636139	Lower	2219

Sample	Elevation (ft)	Height (m)	SiO2	TiO2	Al2O3	FeO*	MnO	MgO	CaO
MF9463	6480	0	49.78	2.226	16.52	10.84	0.178	6.52	9.65
MF9464	6545	20	49.71	1.800	19.64	9.45	0.147	4.43	10.84
MF9465	6550	21	49.51	2.038	14.92	11.31	0.185	8.71	9.25
MF9466	6552	22	49.17	1.817	14.73	11.22	0.180	9.47	10.09
MF9467	6670	58	50.42	2.408	14.72	11.58	0.190	6.33	10.33
MF9468	6800	98	50.60	1.959	16.12	10.28	0.167	6.75	10.35
MF9469	6822	104	49.39	1.814	14.74	10.46	0.172	9.82	10.29
MF9470	6790	95	49.61	1.974	17.93	10.17	0.158	5.88	10.38
MF9471a	6840	110	48.84	2.227	15.55	11.98	0.186	7.16	10.15
MF9471b	6840	110	49.43	2.222	16.47	11.12	0.177	6.35	10.01
MF9471c	6850	113	49.15	2.230	15.34	11.41	0.190	7.52	10.21
MF9472	6890	125	49.02	1.676	14.17	11.35	0.184	10.45	9.99
JS1	6750	82	50.26	2.000	17.74	9.73	0.120	6.10	9.99
JS2	6940	140	50.15	1.940	14.66	10.63	0.180	8.57	10.60
JS3	6960	146	50.78	1.980	16.16	9.94	0.170	6.93	10.33
JS4	6980	153	49.06	1.790	14.35	10.89	0.180	10.66	9.99
JS5	6985	154	49.40	1.920	16.84	10.38	0.170	7.12	10.78
JS6	6995	157	50.42	2.040	16.44	9.96	0.170	6.66	10.65
JS7	7010	162	49.06	2.660	14.89	12.82	0.200	6.29	10.43
JS8	7020	165	49.97	2.240	14.76	11.20	0.180	7.43	10.83
JS9	7025	166	50.16	2.200	14.92	11.15	0.170	7.31	10.63
JS10	7050	174	48.93	2.490	14.71	11.99	0.190	7.33	11.08
JS11	7060	177	48.03	1.800	15.79	10.96	0.170	9.79	10.74
JS12	7065	178	48.83	2.030	15.16	10.95	0.180	8.58	11.36
JS13	7080	183	48.82	1.720	13.39	11.34	0.190	12.02	9.60
JS14	7090	186	49.29	1.630	14.36	10.68	0.180	10.74	10.37
JS15	7120	195	50.21	1.730	15.06	10.12	0.180	8.94	10.82
JS16	7130	198	49.61	1.830	14.87	10.21	0.170	9.87	10.24
JS17	7200	220	49.46	1.814	14.69	10.69	0.175	9.68	10.17
JS18	7235	230	49.71	1.860	15.26	10.41	0.171	8.66	10.43
JS19	7260	238	50.32	2.804	15.17	12.36	0.195	5.12	9.20
JS20	7280	244	50.73	2.741	14.87	12.50	0.196	5.18	8.95
JS21	7350	265	49.91	2.755	14.73	12.70	0.202	5.68	9.33

Sample	Elevation (ft)	Height (m)	SiO2	TiO2	Al2O3	FeO*	MnO	MgO	CaO
JS22	7380	274	48.47	1.837	15.97	11.11	0.173	8.69	10.51
JS23	7420	287	49.08	2.006	16.14	11.44	0.170	7.63	9.80
JS24	7470	302	49.03	2.652	15.01	12.83	0.199	6.07	10.03
JS25	7500	311	48.14	2.101	15.96	11.78	0.182	7.93	10.25
JS26	7550	326	48.39	2.002	16.04	11.50	0.181	8.08	10.13
JS27	7560	329	48.64	1.644	16.66	10.66	0.168	8.29	10.43
JS28	7600	341	48.46	1.903	15.87	12.60	0.176	7.99	9.01
JS29	7600	341	48.92	2.076	17.27	11.38	0.171	6.11	9.89
JS30	7600	341	48.35	2.260	15.26	13.06	0.199	7.43	9.32
JS31	7580	457	48.50	1.951	16.69	11.59	0.188	7.52	9.75
JS32	7615	467	52.98	1.784	16.42	10.10	0.159	4.63	7.88
JS33	7640	475	51.68	2.089	16.05	11.23	0.190	4.78	8.11
JS34	7700	493	50.11	1.991	16.40	11.41	0.187	6.03	8.82
JS36	7750	509	49.81	2.112	16.33	11.50	0.187	6.00	9.25
JS37	7770	515	50.64	2.637	15.28	12.19	0.196	5.34	8.18
JS38	7820	530	49.54	2.531	15.59	12.46	0.197	5.46	9.06
JS39	7850	539	48.81	3.268	14.23	14.48	0.220	5.05	8.29
JS40	7980	579	48.57	3.005	15.07	13.41	0.213	5.63	8.76
JS41	8120	621	51.19	2.636	15.60	11.88	0.195	4.45	8.03
JS43	8220	652	49.89	2.166	15.95	11.59	0.184	5.83	9.55
JS44	8390	704	49.38	1.911	16.25	10.96	0.176	7.16	10.21
JS45	8440	719	49.43	2.822	14.87	13.07	0.213	5.36	8.93
JS46	8520	743	48.86	1.997	17.13	12.19	0.185	6.11	8.66
JS47	8540	749	49.89	2.969	14.68	13.42	0.211	4.91	8.28
JS48	8550	752	50.01	2.971	14.65	13.34	0.209	4.86	8.25
JS49	8560	756	49.19	2.795	15.30	13.24	0.204	5.34	8.71
JS50	8580	762	48.95	2.895	15.36	13.13	0.214	5.31	8.96
JS51	8650	783	48.78	2.367	16.44	12.57	0.197	5.86	9.02
JS52	8600	768	49.45	3.238	14.53	14.11	0.229	4.30	7.88
JS53	8690	795	49.54	2.140	19.24	10.48	0.163	3.96	9.28
JS54	8730	807	48.10	2.430	16.59	12.46	0.196	6.32	9.07
JS55	8780	823	49.32	2.094	18.98	10.71	0.155	4.47	9.45
JS56	8790	826	52.31	2.633	15.71	11.66	0.183	3.83	7.13
JS57	8850	844	52.62	2.395	15.35	11.98	0.187	4.20	7.01

Sample	Elevation (ft)	Height (m)	SiO2	TiO2	Al2O3	FeO*	MnO	MgO	CaO
JS58	8980	884	49.35	2.090	17.14	12.00	0.186	5.82	8.39
JS59	9070	911	51.24	2.885	16.25	12.47	0.204	3.26	7.12
JS60	9140	932	51.10	2.700	15.48	12.83	0.199	4.07	7.42
JS61	9240	963	48.15	2.634	16.50	13.39	0.194	5.73	8.55
JS63	9320	987	48.59	2.577	16.28	13.17	0.196	5.91	8.36
JS64	9330	990	48.36	1.955	17.52	11.80	0.169	6.57	9.30
JS65	9340	993	53.11	2.333	15.92	11.46	0.180	3.22	6.43
JS66	9400	1012	51.53	2.251	16.20	11.90	0.177	4.75	7.86
JS72	9720	1109	54.41	2.360	16.26	10.82	0.180	3.15	5.80
STM 1c	9560	1060	49.62	2.335	16.31	12.91	0.191	5.24	8.00
STM 4	9582	1067	48.46	2.384	17.52	12.66	0.178	5.15	8.88
STM 6	9643	1086	48.39	2.322	16.42	13.04	0.195	6.20	8.78
STM 9	9468	1032	53.98	2.678	14.82	11.44	0.188	3.33	6.88
STM 10	7801	0	49.57	2.269	15.73	12.38	0.197	5.51	9.45
STM 11	7830	9	49.09	2.063	16.09	11.82	0.179	6.64	10.10
STM 12b	7862	18	48.09	2.579	15.82	13.42	0.202	5.79	9.23
STM 13	7883	25	48.13	2.497	15.89	13.19	0.204	5.94	9.37
STM 15	7962	49	49.35	2.786	16.87	12.56	0.190	3.97	8.73
STM 18	8071	82	49.02	1.956	16.77	11.86	0.188	6.71	9.23
STM 21b	8177	114	48.24	2.464	16.07	13.44	0.205	5.77	8.97
STM 25	8193	119	48.32	2.199	17.07	12.42	0.191	6.02	9.27
STM 29	8234	132	51.56	1.826	16.67	10.36	0.165	5.85	8.56
STM 33	8290	149	48.83	3.486	14.10	14.76	0.233	4.46	7.91
STM 34	8296	151	49.00	3.209	15.29	13.86	0.217	4.23	8.12
STM 37	8347	166	52.64	2.045	16.69	10.91	0.172	3.49	6.23
STM 40	8494	211	48.33	2.601	16.65	13.71	0.198	5.21	8.16
STM 41	8497	212	48.42	2.509	16.94	13.30	0.192	5.22	8.28
STM 44	8510	216	49.25	2.253	17.22	12.50	0.186	4.90	8.53
STM 48	8560	231	48.51	2.943	15.46	14.21	0.207	5.40	7.67
NMSB-5	6561	25	48.79	2.116	15.13	11.77	0.187	8.55	9.48
NMSB-6	6587	33	49.36	1.950	15.15	11.18	0.187	8.34	10.50

Sample	Elevation (ft)	Height (m)	SiO2	TiO2	Al2O3	FeO*	MnO	MgO	CaO
NMSB-7	6652	53	49.74	2.506	14.60	12.15	0.198	6.59	10.55
NMSB-8	6654	53	50.39	1.923	17.08	9.95	0.159	6.10	10.40
NMSB-9	6699	67	50.23	2.410	14.36	11.65	0.189	6.78	10.49
NMSB-11	6809	100	49.35	1.821	14.57	10.79	0.172	9.78	10.21
NMSB-13	6775	90	48.99	1.851	18.55	9.94	0.155	6.06	10.67
NMSB-14	6844	111	49.26	2.863	14.12	13.20	0.209	6.12	9.94
NMSB-15	6870	119	49.00	1.677	14.19	11.50	0.183	10.47	9.96
NMSB-16	6889	125	50.05	1.968	14.72	11.05	0.178	8.15	10.20
NMSB-17	6879	122	50.08	2.015	15.14	11.04	0.180	7.14	10.70
NMSB-18	6882	123	48.47	1.800	13.79	11.67	0.188	10.90	10.15
NMSB-19	6960	146	49.15	1.656	14.79	11.01	0.179	9.51	10.60
NMSB-20A	7270	241	50.46	2.081	17.78	10.40	0.165	4.85	9.71
NMSB-21	7279	244	50.38	2.780	14.37	12.93	0.201	5.38	9.15
		Height of STM10-48 relative to that section only							

Sample	Na2O	K2O	P2O5	Total	Mg#	Na+K	Ni	Cr	Sc	V
MF9463	3.12	0.86	0.305	100.00	55.8	3.98	117	181	28	331
MF9464	3.17	0.56	0.251	100.00	49.6	3.73	101	169	23	270
MF9465	2.85	0.89	0.332	100.00	61.7	3.74	223	536	26	292
MF9466	2.50	0.59	0.228	100.00	63.9	3.09	249	663	29	296
MF9467	2.91	0.82	0.290	100.00	53.4	3.73	97	309	35	361
MF9468	2.85	0.69	0.232	100.00	57.9	3.54	138	294	30	312
MF9469	2.57	0.55	0.207	100.00	66.3	3.11	264	488	31	299
MF9470	3.00	0.62	0.282	100.00	54.8	3.62	112	158	27	305
MF9471a	2.89	0.72	0.290	100.00	55.6	3.61	133	242	31	378
MF9471b	3.08	0.83	0.313	100.00	54.5	3.91	114	191	27	332
MF9471c	2.93	0.74	0.300	100.02	58.0	3.67	126	241	40	381
MF9472	2.46	0.48	0.217	100.00	65.9	2.95	248	640	31	294
JS1	2.99	0.77	0.290	99.99	56.8	3.76	240	606	36	290
JS2	2.39	0.66	0.230	100.01	62.8	3.05	114	46	25	302
JS3	2.78	0.68	0.230	99.98	59.4	3.46	176	489	25	323
JS4	2.31	0.57	0.210	100.01	67.2	2.88	137	278	24	321
JS5	2.67	0.50	0.220	100.00	59.0	3.17	285	461	24	291
JS6	2.76	0.67	0.230	100.00	58.4	3.43	146	292	24	294
JS7	2.81	0.53	0.310	100.00	50.7	3.34	120	281	25	322
JS8	2.52	0.61	0.260	100.00	58.2	3.13	85	296	34	374
JS9	2.52	0.70	0.250	100.01	57.9	3.22	113	330	34	366
JS10	2.48	0.54	0.260	100.00	56.2	3.02	120	329	35	362
JS11	2.26	0.28	0.180	100.00	65.2	2.54	120	276	33	390
JS12	2.33	0.36	0.210	99.99	62.2	2.69	261	424	26	302
JS13	2.14	0.57	0.210	100.00	69.0	2.71	164	407	35	351
JS14	2.22	0.37	0.170	100.01	67.8	2.59	345	890	31	299
JS15	2.36	0.39	0.190	100.00	64.9	2.75	280	592	27	293
JS16	2.45	0.53	0.230	100.01	67.0	2.98	188	404	31	320
JS17	2.53	0.59	0.211	100.00	65.5	3.11	267	516	29	298
JS18	2.61	0.68	0.209	100.00	63.6	3.29	205	411	30	305
JS19	3.26	1.19	0.386	100.00	46.5	4.45	64	77	30	394
JS20	3.07	1.37	0.393	100.00	46.5	4.44	60	106	32	387
JS21	3.18	1.10	0.395	100.00	48.4	4.29	74	138	33	387

Sample	Na2O	K2O	P2O5	Total	Mg#	Na+K	Ni	Cr	Sc	V
JS22	2.56	0.48	0.193	100.00	62.1	3.04	208	362	30	321
JS23	2.92	0.58	0.237	100.00	58.3	3.49	161	181	28	310
JS24	3.17	0.69	0.319	100.00	49.8	3.86	81	186	34	399
JS25	2.90	0.53	0.246	100.00	58.5	3.43	168	315	31	353
JS26	2.91	0.51	0.251	100.00	59.6	3.42	172	290	30	335
JS27	2.69	0.60	0.211	100.00	62.0	3.29	184	358	28	288
JS28	3.07	0.64	0.286	100.00	57.1	3.71	133	192	26	328
JS29	3.22	0.67	0.294	100.00	53.0	3.88	93	91	28	339
JS30	3.12	0.70	0.306	100.00	54.4	3.82	113	147	32	403
JS31	2.77	0.72	0.296	100.00	57.6	3.50	121	141	32	316
JS32	3.58	1.99	0.492	100.00	49.0	5.56	67	88	23	247
JS33	3.59	1.79	0.494	100.00	47.1	5.38	57	66	25	292
JS34	3.41	1.24	0.401	100.00	52.6	4.65	82	75	28	290
JS36	3.30	1.12	0.379	100.00	52.2	4.42	86	112	31	325
JS37	3.50	1.52	0.524	100.00	47.9	5.02	78	92	30	340
JS38	3.40	1.29	0.461	100.00	47.9	4.69	63	97	31	345
JS39	3.58	1.47	0.595	100.00	42.2	5.05	53	54	34	450
JS40	3.52	1.26	0.563	100.00	46.8	4.78	74	85	32	427
JS41	3.24	2.17	0.598	100.00	44.0	5.42	39	39	28	339
JS43	3.13	1.28	0.413	100.00	51.3	4.42	71	126	31	331
JS44	3.08	0.56	0.305	100.00	57.8	3.64	94	98	26	267
JS45	3.47	1.30	0.532	100.00	46.2	4.77	63	83	33	404
JS46	3.62	0.90	0.349	100.00	51.2	4.52	115	50	25	312
JS47	3.37	1.69	0.572	100.00	43.4	5.06	52	31	33	435
JS48	3.47	1.66	0.582	100.00	43.3	5.13	50	31	34	427
JS49	3.37	1.33	0.514	100.00	45.8	4.70	65	55	34	423
JS50	3.48	1.20	0.499	100.00	45.9	4.68	61	62	36	451
JS51	3.39	0.98	0.399	100.00	49.4	4.37	111	46	31	385
JS52	3.83	1.76	0.685	100.00	39.0	5.59	33	10	33	403
JS53	3.71	1.06	0.412	100.00	44.2	4.77	57	34	23	302
JS54	3.44	0.97	0.426	100.00	51.5	4.41	134	141	27	348
JS55	3.53	0.92	0.381	100.00	46.7	4.45	86	69	22	299
JS56	3.75	2.13	0.653	100.00	40.8	5.88	31	6	26	299
JS57	3.56	2.21	0.490	100.00	42.3	5.77	34	8	28	340

Sample	Na2O	K2O	P2O5	Total	Mg#	Na+K	Ni	Cr	Sc	V
JS58	3.51	1.13	0.383	100.00	50.4	4.64	92	84	25	325
JS59	4.00	1.91	0.664	100.00	35.4	5.91	31	7	29	307
JS60	3.79	1.80	0.600	100.00	39.9	5.60	42	8	27	358
JS61	3.38	1.05	0.425	100.00	47.3	4.43	112	66	28	348
JS63	3.43	1.07	0.425	100.00	48.5	4.50	120	69	29	345
JS64	3.30	0.72	0.300	100.00	53.9	4.02	152	46	24	297
JS65	4.34	2.24	0.756	100.00	37.1	6.59	13	3	21	270
JS66	3.44	1.50	0.394	100.00	45.6	4.93	58	62	28	308
JS72	4.54	2.27	0.780	100.57	37.9	6.81	6	5	28	273
STM 1c	3.66	1.26	0.473	100.00	46.0	4.92	75	61	28	354
STM 4	3.46	0.93	0.371	100.00	46.0	4.39	100	54	25	333
STM 6	3.36	0.93	0.362	100.00	49.9	4.29	126	63	29	327
STM 9	3.69	2.37	0.623	100.00	37.9	6.06	17	1	29	273
STM 10	3.25	1.21	0.434	100.00	48.3	4.46	78	118	31	343
STM 11	3.09	0.61	0.326	100.00	54.1	3.70	79	64	27	280
STM 12b	3.38	1.07	0.417	100.00	47.5	4.45	87	108	30	381
STM 13	3.36	0.98	0.436	100.00	48.6	4.34	110	127	32	380
STM 15	3.60	1.37	0.567	100.00	39.8	4.97	47	11	28	358
STM 18	3.16	0.80	0.302	100.00	54.3	3.97	143	115	27	300
STM 21b	3.40	1.01	0.436	100.00	47.4	4.41	99	39	30	383
STM 25	3.31	0.83	0.363	100.00	50.4	4.14	121	43	28	352
STM 29	3.38	1.36	0.273	100.00	54.2	4.74	116	166	24	281
STM 33	3.79	1.71	0.729	100.00	38.8	5.50	41	7	35	413
STM 34	3.80	1.60	0.664	100.00	39.0	5.41	43	8	33	387
STM 37	4.53	2.36	0.919	100.00	40.2	6.90	36	12	20	231
STM 40	3.52	1.18	0.451	100.00	44.4	4.70	107	55	27	324
STM 41	3.54	1.17	0.438	100.00	45.1	4.71	110	56	25	317
STM 44	3.55	1.21	0.398	100.00	45.1	4.77	77	66	26	326
STM 48	3.62	1.47	0.520	100.00	44.4	5.09	100	76	29	372
NMSB-5	2.89	0.75	0.335	100.00	60.4	3.63	233	554	29	295
NMSB-6	2.62	0.47	0.244	100.00	61.0	3.09	195	506	32	308

Sample	Ba	Rb	Sr	Zr	Y	Nb	Ga	Cu	Zn	Pb
MF9463	273	12	445	153	27	10.1	21	190	96	3
MF9464	238	7	523	127	24	9.4	24	173	81	2
MF9465	293	16	411	150	27	11.2	20	112	101	4
MF9466	230	9	337	131	24	10.1	18	132	92	2
MF9467	234	12	339	171	32	11.6	21	195	98	4
MF9468	212	14	316	137	28	8.4	20	169	91	3
MF9469	167	9	305	123	25	8.5	18	113	92	3
MF9470	237	12	499	131	24	7.1	20	147	87	3
MF9471a	270	11	415	147	28	10.7	23	148	102	3
MF9471b	268	12	440	154	28	9.2	23	137	97	3
MF9471c	216	1	408	149	29	11.2	19	169	103	0
MF9472	191	8	344	111	23	8.4	19	100	89	2
JS1	150	9	340	117	23	10.4	19	121	86	0
JS2	211	13	450	143	26	11.2	21	188	85	0
JS3	187	12	330	138	26	10.4	22	126	89	0
JS4	189	12	314	140	28	11.0	20	150	84	2
JS5	136	10	314	126	25	9.7	19	116	87	4
JS6	167	8	378	138	26	10.8	23	148	81	0
JS7	178	12	360	140	28	11.2	23	161	85	4
JS8	235	5	347	183	36	14.9	24	234	99	0
JS9	148	11	336	154	30	12.2	19	149	91	2
JS10	143	16	337	154	31	12.4	22	207	95	2
JS11	106	8	322	165	32	15.4	20	132	99	1
JS12	66	3	302	122	25	10.4	19	113	86	0
JS13	77	6	285	134	28	12.5	18	127	88	0
JS14	138	10	301	123	24	9.7	18	118	88	2
JS15	92	7	243	109	23	8.8	20	176	90	1
JS16	105	7	257	115	26	8.9	19	173	90	2
JS17	169	11	302	123	25	9.4	17	173	88	2
JS18	167	13	301	127	25	11.2	18	129	86	3
JS19	337	20	389	191	33	11.4	23	225	114	4
JS20	383	25	388	199	36	11.1	24	187	113	5
JS21	321	21	373	197	34	12.6	24	172	112	3

Sample	Ba	Rb	Sr	Zr	Y	Nb	Ga	Cu	Zn	Pb
JS22	129	6	344	109	23	4.6	19	91	91	2
JS23	182	9	378	120	23	8.3	21	190	95	1
JS24	240	8	356	170	32	9.2	22	199	112	3
JS25	183	7	371	124	27	9.1	21	154	96	2
JS26	178	6	396	117	25	5.8	20	151	95	2
JS27	160	7	402	96	22	6.1	21	113	85	2
JS28	238	9	451	117	25	6.8	21	221	103	3
JS29	250	10	499	127	26	7.4	22	154	97	3
JS30	253	9	438	131	27	6.6	21	225	109	4
JS31	294	12	567	115	25	7.2	20	190	96	3
JS32	605	47	523	182	29	12.6	21	102	95	5
JS33	611	35	522	184	30	12.3	21	153	102	6
JS34	476	20	478	155	31	8.4	21	134	98	4
JS36	417	18	475	154	31	9.0	20	143	101	5
JS37	503	30	419	220	41	12.2	23	221	118	7
JS38	438	22	455	193	36	10.7	21	251	113	6
JS39	515	28	425	238	43	14.6	23	196	138	5
JS40	482	16	459	212	39	13.0	24	233	124	5
JS41	580	40	467	225	37	13.0	23	245	118	7
JS43	413	20	489	149	30	8.4	22	204	104	4
JS44	260	8	492	122	24	8.7	19	63	103	1
JS45	481	20	438	212	41	12.7	22	273	122	7
JS46	390	9	714	124	26	7.4	22	185	106	3
JS47	549	29	454	223	42	12.2	23	230	128	7
JS48	573	28	458	232	43	13.0	23	268	131	8
JS49	485	21	480	199	38	11.3	23	217	124	7
JS50	480	14	476	192	38	11.3	21	207	128	6
JS51	404	15	513	154	31	8.5	23	141	113	3
JS52	648	27	444	261	48	14.8	24	358	139	8
JS53	429	16	633	160	30	10.0	24	127	103	4
JS54	403	11	502	156	30	9.4	23	207	114	4
JS55	396	10	600	144	28	8.2	23	133	100	3
JS56	772	37	483	258	42	13.5	22	175	122	8
JS57	608	43	429	237	38	11.6	22	221	121	8

Sample	Ba	Rb	Sr	Zr	Y	Nb	Ga	Cu	Zn	Pb
JS58	443	19	537	145	28	8.1	22	135	111	3
JS59	741	36	498	254	40	15.2	25	205	131	6
JS60	709	28	500	223	43	12.5	24	304	134	8
JS61	453	15	477	185	44	10.4	23	279	127	4
JS63	430	20	489	184	35	10.5	22	318	126	4
JS64	306	8	590	123	24	7.6	23	93	104	2
JS65	888	34	665	226	36	13.3	21	65	124	9
JS66	606	27	490	180	33	10.1	23	190	114	6
JS72	889	32	665	229	38	15.4	24	38	127	7
STM 1c	521	20	635	162	31	10.0	22	146	115	5
STM 4	374	12	508	159	31	9.7	23	194	112	4
STM 6	380	16	493	161	33	9.8	21	197	115	4
STM 9	729	54	427	266	46	16.2	21	228	119	10
STM 10	451	20	509	167	33	11.0	20	210	107	5
STM 11	299	8	529	143	27	11.4	20	50	111	3
STM 12b	387	16	565	164	34	10.1	21	232	117	5
STM 13	391	11	528	171	36	11.2	21	183	118	5
STM 15	541	19	553	220	42	14.2	23	287	119	5
STM 18	325	12	515	129	28	8.1	20	205	104	3
STM 21b	418	13	514	171	35	10.4	21	246	116	5
STM 25	371	10	553	143	30	9.1	22	157	110	3
STM 29	455	24	491	160	27	9.8	20	178	98	5
STM 33	624	27	439	274	50	17.4	23	280	148	8
STM 34	596	25	486	250	45	15.4	23	258	135	6
STM 37	927	34	762	197	34	13.6	21	76	116	9
STM 40	476	21	527	187	35	11.3	22	309	122	4
STM 41	459	20	544	181	33	11.3	23	313	119	4
STM 44	479	18	553	167	32	10.4	20	222	112	4
STM 48	567	24	456	220	39	13.6	22	120	138	5
NMSB-5	303	10	421	160	29	12.2	20	140	107	3
NMSB-6	303	7	365	145	27	9.7	19	165	96	3

Sample	La	Ce	Th	Nd	U	ICPMS tra	La ppm	Ce ppm	Pr ppm	Nd ppm
MF9463	14	34	0	22			14.22	33.90	4.84	21.99
MF9464	15	28	0	20			12.56	28.87	4.20	18.96
MF9465	17	38	2	22			15.81	36.60	5.11	22.74
MF9466	10	27	0	18			11.89	27.59	4.02	18.31
MF9467	12	33	0	24			14.89	35.57	5.17	23.42
MF9468	11	28	1	20			12.41	29.20	4.23	19.24
MF9469	10	26	1	17			10.73	25.40	3.69	17.15
MF9470	12	33	0	19			13.00	30.79	4.41	20.21
MF9471a	18	34	0	23			13.81	32.28	4.70	21.55
MF9471b	14	30	0	21			15.07	35.11	5.04	22.89
MF9471c	3	37	5							
MF9472	10	19	0	16			10.70	25.47	3.62	16.83
JS1	14	25	3							
JS2	2	47	2							
JS3	0	30	1							
JS4	16	28	3							
JS5	6	30	1							
JS6	5	32	0							
JS7	11	35	1							
JS8	20	56	4							
JS9	23	40	1				13.29	30.50	4.10	19.54
JS10	3	33	3							
JS11	11	50	2							
JS12	5	28	3							
JS13	16	27	1							
JS14	9	17	3							
JS15	7	13	2							
JS16	4	27	1							
JS17	12	26	0	17			10.66	25.69	3.65	16.98
JS18	11	24	0	16			10.74	25.81	3.73	17.15
JS19	19	40	0	28			18.69	44.55	6.32	28.56
JS20	21	46	2	29			20.34	47.04	6.56	29.39
JS21	17	43	0	28			18.58	44.30	6.27	28.64

Sample	La	Ce	Th	Nd	U	ICPMS tra	La ppm	Ce ppm	Pr ppm	Nd ppm
JS22	7	27	1	18			9.08	22.44	3.34	15.99
JS23	9	25	0	18			10.56	25.97	3.77	17.76
JS24	14	37	2	24			14.62	36.19	5.29	24.68
JS25	11	24	0	18			10.89	26.73	3.91	18.46
JS26	10	23	0	18			10.36	25.71	3.81	17.96
JS27	10	17	0	15			9.15	22.33	3.32	15.61
JS28	10	26	0	19			11.39	27.58	4.02	18.81
JS29	9	30	0	20			12.47	30.23	4.40	20.67
JS30	15	26	0	22			12.63	30.64	4.49	21.08
JS31	12	28	0	19			12.14	29.31	4.25	19.74
JS32	22	48	3	29			23.37	50.43	6.69	28.49
JS33	19	50	1	29			23.39	51.51	6.93	29.82
JS34	17	37	1	26			18.36	40.77	5.76	25.68
JS36	20	40	2	25			17.12	38.36	5.45	24.60
JS37	25	51	3	36			24.58	54.35	7.69	34.28
JS38	20	48	2	28			20.94	48.28	6.83	30.52
JS39	30	56	1	37			25.67	59.54	8.46	37.99
JS40	24	51	0	33			22.96	54.09	7.73	34.62
JS41	25	60	2	38			26.38	59.77	8.28	36.39
JS43	19	37	2	25			17.97	40.89	5.82	25.97
JS44	12	28	0	19			14.73	33.22	4.72	21.44
JS45	26	46	2	32			22.85	53.11	7.62	34.48
JS46	16	34	0	24			14.88	34.43	5.14	23.48
JS47	26	54	4	38			25.34	58.10	8.23	37.02
JS48	25	55	1	37			25.41	58.81	8.34	37.65
JS49	22	54	2	33			22.02	51.72	7.37	33.22
JS50	23	50	3	36			22.10	50.99	7.40	33.57
JS51	15	36	2	26			16.63	38.82	5.64	25.94
JS52	29	63	3	44			29.61	68.45	9.73	43.64
JS53	17	37	0	25			17.81	41.07	5.84	26.37
JS54	15	41	0	26			17.99	42.42	6.16	27.90
JS55	20	39	0	28			16.43	37.42	5.48	24.85
JS56	31	67	3	43			33.20	72.10	9.98	43.20
JS57	26	63	3	36			29.17	63.04	8.71	37.37

Sample	La	Ce	Th	Nd	U	ICPMS tra	La ppm	Ce ppm	Pr ppm	Nd ppm
JS58	22	39	0	27			18.26	40.49	5.86	25.92
JS59	31	64	2	42			30.37	67.86	9.51	41.80
JS60	31	61	2	36			30.39	62.65	9.03	39.66
JS61	26	41	2	32			24.19	44.46	7.66	34.59
JS63	23	48	2	30			19.27	44.06	6.36	28.73
JS64	14	25	0	17			12.47	28.79	4.35	20.51
JS65	33	65	0	39			32.70	69.29	9.61	41.06
JS66	24	41	2	28			20.87	45.79	6.44	28.34
JS72	28	80	2				32.04	62.23	8.36	37.34
STM 1c	24	44	2	30	0		20.55	45.51	6.52	29.08
STM 4	15	38	2	24	1		17.11	38.28	5.56	25.10
STM 6	15	38	3	26	0		16.89	38.03	5.49	25.01
STM 9	32	71	7	41	2		31.75	70.65	9.61	41.39
STM 10	21	44	3	30	2		19.29	44.16	6.17	27.52
STM 11	15	40	1	23	1		16.28	37.12	5.27	23.59
STM 12b	16	45	2	28	1		17.62	41.22	5.96	27.08
STM 13	18	43	2	29	2		18.75	43.72	6.27	28.55
STM 15	28	57	3	37	1		25.21	58.29	8.30	36.81
STM 18	16	31	2	19	1		14.06	32.28	4.66	21.19
STM 21b	17	47	2	29	1		18.06	43.55	6.15	28.39
STM 25	18	39	1	24	0		15.36	36.28	5.20	23.93
STM 29	17	37	2	22	0		17.12	38.99	5.40	23.47
STM 33	28	69	3	46	0		29.62	69.61	9.97	45.00
STM 34	29	65	3	39	0		27.53	65.68	9.25	41.40
STM 37	34	69	4	42	1		35.16	73.78	10.17	42.61
STM 40	18	48	3	29	1		20.41	47.03	6.70	30.17
STM 41	21	47	2	30	2		19.37	45.30	6.34	28.91
STM 44	17	42	3	28	1		19.09	43.51	6.08	27.22
STM 48	25	56	2	36	2		23.99	55.34	7.84	35.14
NMSB-5	16	37	3	23	1		16.08	37.04	5.27	23.37
NMSB-6	11	26	2	16	1		12.04	29.58	4.16	19.25

Sample	Sm ppm	Eu ppm	Gd ppm	Tb ppm	Dy ppm	Ho ppm	Er ppm	Tm ppm	Yb ppm	Lu ppm
MF9463	5.73	1.97	5.94	0.97	5.84	1.12	2.81	0.39	2.28	0.35
MF9464	4.99	1.78	5.18	0.84	5.05	0.99	2.55	0.34	2.04	0.30
MF9465	5.76	1.96	6.12	0.98	5.73	1.12	2.90	0.39	2.35	0.35
MF9466	4.90	1.68	5.22	0.86	5.13	1.01	2.56	0.36	2.11	0.31
MF9467	6.30	2.10	6.75	1.11	6.67	1.32	3.31	0.46	2.75	0.41
MF9468	5.20	1.79	5.71	0.96	5.80	1.14	2.89	0.41	2.37	0.37
MF9469	4.72	1.61	5.09	0.85	5.17	1.03	2.65	0.36	2.15	0.32
MF9470	5.36	1.83	5.54	0.90	5.39	1.02	2.68	0.37	2.20	0.33
MF9471a	5.73	1.95	6.07	0.98	5.85	1.16	2.96	0.40	2.41	0.37
MF9471b	5.97	2.05	6.37	1.02	6.17	1.21	3.12	0.42	2.51	0.38
MF9471c										
MF9472	4.47	1.59	4.83	0.80	4.80	0.95	2.41	0.34	2.00	0.31
JS1										
JS2										
JS3										
JS4										
JS5										
JS6										
JS7										
JS8										
JS9	5.74	1.98	6.32	1.04	6.18	1.25	3.10	0.43	2.53	0.38
JS10										
JS11										
JS12										
JS13										
JS14										
JS15										
JS16										
JS17	4.56	1.61	5.10	0.84	5.08	1.01	2.60	0.36	2.10	0.32
JS18	4.71	1.63	5.22	0.86	5.23	1.04	2.67	0.36	2.16	0.33
JS19	7.51	2.48	7.86	1.28	7.64	1.47	3.83	0.53	3.07	0.48
JS20	7.52	2.44	7.95	1.29	7.69	1.51	3.89	0.54	3.15	0.49
JS21	7.50	2.46	7.97	1.31	7.69	1.52	3.95	0.54	3.15	0.49

Sample	Sm ppm	Eu ppm	Gd ppm	Tb ppm	Dy ppm	Ho ppm	Er ppm	Tm ppm	Yb ppm	Lu ppm
JS22	4.53	1.61	4.96	0.82	4.96	0.98	2.48	0.34	2.00	0.31
JS23	4.91	1.74	5.18	0.86	5.15	1.01	2.62	0.36	2.08	0.32
JS24	6.62	2.29	7.12	1.18	7.05	1.41	3.59	0.49	2.89	0.44
JS25	5.07	1.78	5.45	0.92	5.55	1.10	2.84	0.39	2.27	0.35
JS26	4.88	1.79	5.45	0.89	5.35	1.05	2.72	0.38	2.20	0.33
JS27	4.27	1.56	4.63	0.77	4.67	0.91	2.31	0.33	1.93	0.29
JS28	4.93	1.77	5.24	0.85	5.01	0.99	2.54	0.36	2.07	0.32
JS29	5.51	1.92	5.74	0.94	5.54	1.09	2.84	0.39	2.31	0.36
JS30	5.60	1.94	6.04	0.98	5.78	1.14	2.96	0.41	2.36	0.36
JS31	5.22	1.83	5.55	0.92	5.41	1.08	2.78	0.39	2.30	0.35
JS32	6.59	2.05	6.26	1.00	5.96	1.18	3.05	0.43	2.60	0.41
JS33	7.13	2.25	6.94	1.10	6.51	1.28	3.31	0.47	2.78	0.43
JS34	6.41	2.15	6.52	1.06	6.45	1.27	3.33	0.47	2.82	0.44
JS36	6.21	2.08	6.50	1.06	6.26	1.25	3.25	0.46	2.72	0.43
JS37	8.57	2.54	8.62	1.41	8.48	1.67	4.32	0.61	3.69	0.58
JS38	7.72	2.40	7.96	1.29	7.55	1.52	3.90	0.55	3.25	0.51
JS39	9.61	2.93	9.82	1.58	9.36	1.86	4.79	0.67	4.05	0.62
JS40	8.72	2.69	8.91	1.44	8.43	1.67	4.36	0.60	3.57	0.56
JS41	8.89	2.69	8.80	1.40	8.33	1.65	4.26	0.60	3.60	0.57
JS43	6.59	2.12	6.65	1.08	6.38	1.27	3.31	0.46	2.71	0.42
JS44	5.52	1.90	5.76	0.92	5.46	1.06	2.67	0.36	2.17	0.33
JS45	8.86	2.74	9.11	1.48	8.75	1.75	4.51	0.63	3.80	0.60
JS46	5.99	2.02	6.09	0.96	5.68	1.10	2.87	0.39	2.33	0.37
JS47	9.40	2.76	9.56	1.50	8.83	1.76	4.57	0.63	3.84	0.60
JS48	9.44	2.85	9.57	1.52	8.98	1.78	4.58	0.64	3.85	0.61
JS49	8.51	2.60	8.62	1.38	8.15	1.62	4.16	0.58	3.52	0.55
JS50	8.58	2.68	8.78	1.39	8.28	1.64	4.24	0.58	3.55	0.55
JS51	6.84	2.22	7.11	1.14	6.59	1.30	3.38	0.48	2.83	0.44
JS52	10.93	3.22	10.94	1.73	10.21	2.02	5.23	0.73	4.40	0.68
JS53	6.73	2.18	6.62	1.06	6.29	1.22	3.17	0.44	2.61	0.41
JS54	7.19	2.34	7.23	1.17	6.89	1.35	3.48	0.48	2.79	0.44
JS55	6.28	2.11	6.40	1.01	6.00	1.14	3.01	0.41	2.47	0.38
JS56	10.36	2.95	9.91	1.54	9.08	1.79	4.65	0.65	3.95	0.60
JS57	8.94	2.50	8.66	1.40	8.23	1.61	4.32	0.60	3.66	0.58

Sample	Sm ppm	Eu ppm	Gd ppm	Tb ppm	Dy ppm	Ho ppm	Er ppm	Tm ppm	Yb ppm	Lu ppm
JS58	6.57	2.14	6.62	1.05	6.20	1.22	3.17	0.44	2.65	0.42
JS59	10.13	3.01	9.74	1.54	8.80	1.72	4.43	0.60	3.65	0.56
JS60	9.45	2.72	9.26	1.45	8.54	1.69	4.54	0.62	3.73	0.60
JS61	8.71	2.63	9.13	1.47	8.77	1.75	4.70	0.64	3.87	0.61
JS63	7.35	2.36	7.49	1.23	7.22	1.44	3.80	0.52	3.11	0.48
JS64	5.37	1.87	5.50	0.89	5.35	1.02	2.65	0.36	2.14	0.33
JS65	9.37	2.69	8.57	1.29	7.46	1.45	3.85	0.54	3.32	0.52
JS66	7.10	2.25	7.01	1.13	6.80	1.34	3.48	0.49	3.01	0.47
JS72	9.31	2.63	8.60	1.30	7.43	1.46	3.68	0.53	3.30	0.51
STM 1c	7.23	2.29	6.98	1.09	6.42	1.24	3.22	0.43	2.66	0.41
STM 4	6.29	2.15	6.65	1.05	6.30	1.25	3.21	0.43	2.66	0.40
STM 6	6.47	2.19	6.90	1.10	6.70	1.34	3.52	0.48	2.94	0.45
STM 9	10.06	2.81	9.69	1.56	9.22	1.80	4.80	0.65	4.01	0.62
STM 10	6.86	2.23	7.02	1.11	6.72	1.33	3.44	0.48	2.90	0.45
STM 11	6.03	2.07	6.17	0.97	5.84	1.11	2.86	0.40	2.31	0.35
STM 12b	6.96	2.34	7.24	1.16	6.96	1.37	3.55	0.50	3.01	0.48
STM 13	7.38	2.40	7.62	1.22	7.30	1.44	3.76	0.52	3.07	0.49
STM 15	9.31	2.86	9.15	1.44	8.74	1.69	4.41	0.61	3.67	0.58
STM 18	5.49	1.89	5.69	0.92	5.58	1.08	2.81	0.40	2.37	0.36
STM 21b	7.26	2.40	7.40	1.21	7.25	1.42	3.68	0.51	3.04	0.46
STM 25	6.15	2.08	6.31	1.03	6.07	1.21	3.08	0.44	2.65	0.40
STM 29	6.13	1.93	5.93	0.96	5.78	1.13	2.94	0.41	2.50	0.39
STM 33	11.44	3.35	11.29	1.79	10.69	2.06	5.31	0.74	4.45	0.67
STM 34	10.34	3.15	10.38	1.64	9.62	1.88	4.86	0.66	4.08	0.62
STM 37	9.19	2.77	8.13	1.23	6.97	1.34	3.49	0.49	2.98	0.47
STM 40	7.68	2.47	7.68	1.23	7.18	1.42	3.65	0.51	3.06	0.47
STM 41	7.32	2.38	7.30	1.18	6.95	1.37	3.56	0.49	2.95	0.45
STM 44	6.87	2.29	6.75	1.05	6.51	1.26	3.35	0.47	2.77	0.42
STM 48	8.71	2.75	8.83	1.39	8.20	1.59	4.09	0.56	3.42	0.52
NMSB-5	5.91	2.02	6.13	1.00	5.92	1.15	2.91	0.41	2.37	0.38
NMSB-6	5.22	1.76	5.65	0.91	5.48	1.08	2.78	0.39	2.26	0.34

Sample	Ba ppm	Th ppm	Nb ppm	Y ppm	Hf ppm	Ta ppm	U ppm	Pb ppm	Rb ppm	Cs ppm
MF9463	261	1.26	9.89	27.09	4.00	0.65	0.38	2.74	11.65	0.06
MF9464	229	1.21	8.13	23.93	3.31	0.53	0.31	2.36	7.32	0.10
MF9465	275	1.76	10.53	27.64	3.93	0.69	0.46	3.14	15.08	0.25
MF9466	215	1.44	7.87	24.71	3.42	0.53	0.33	2.48	9.37	0.17
MF9467	230	1.83	10.39	31.85	4.55	0.68	0.48	2.91	12.79	0.11
MF9468	205	1.65	8.61	28.04	3.76	0.58	0.44	2.64	14.12	0.27
MF9469	161	1.30	7.87	25.04	3.33	0.53	0.37	2.21	9.85	0.18
MF9470	227	1.23	8.80	25.72	3.60	0.56	0.31	2.48	10.47	0.18
MF9471a	254	1.29	9.35	28.27	3.87	0.62	0.33	2.58	10.56	0.14
MF9471b	263	1.41	10.27	29.71	4.16	0.67	0.38	2.79	13.27	0.17
MF9471c										
MF9472	181	1.06	7.41	23.44	3.10	0.48	0.25	1.84	7.55	0.10
JS1										
JS2										
JS3										
JS4										
JS5										
JS6										
JS7										
JS8										
JS9	171	1.42	9.92	29.96	4.13	0.66	0.38	2.81		0.47
JS10										
JS11										
JS12										
JS13										
JS14										
JS15										
JS16										
JS17	161	1.33	7.96	24.68	3.37	0.54	0.39	2.19	11.56	0.22
JS18	159	1.32	7.92	25.60	3.39	0.53	0.39	2.25	12.78	0.23
JS19	325	2.31	12.44	35.65	5.27	0.84	0.68	4.10	21.03	0.42
JS20	380	3.07	12.43	36.70	5.34	0.84	0.87	5.08	25.06	0.57
JS21	309	2.28	12.16	36.88	5.26	0.82	0.63	3.97	20.55	0.48

Sample	Ba ppm	Th ppm	Nb ppm	Y ppm	Hf ppm	Ta ppm	U ppm	Pb ppm	Rb ppm	Cs ppm
JS22	120	0.84	6.51	23.58	3.08	0.44	0.24	1.62	6.42	0.13
JS23	175	1.03	7.61	24.39	3.43	0.51	0.36	2.00	9.54	0.10
JS24	227	1.45	10.47	33.63	4.67	0.71	0.40	2.66	8.53	0.07
JS25	174	0.94	7.49	26.59	3.45	0.50	0.27	1.90	6.84	0.11
JS26	170	0.84	7.03	25.79	3.25	0.47	0.24	1.76	5.69	0.08
JS27	154	0.78	5.92	22.38	2.75	0.39	0.24	1.68	7.46	0.15
JS28	225	0.95	6.92	24.32	3.13	0.44	0.30	2.08	9.43	0.21
JS29	238	1.02	7.59	26.91	3.43	0.50	0.30	2.18	8.84	0.05
JS30	244	1.03	7.69	27.76	3.56	0.50	0.31	2.41	9.31	0.11
JS31	288	1.01	7.18	26.76	3.20	0.46	0.28	2.56	13.18	0.17
JS32	602	3.10	12.41	29.38	4.66	0.80	1.13	5.90	47.59	0.91
JS33	617	2.89	12.60	32.07	4.82	0.80	0.97	6.16	36.08	0.68
JS34	474	2.34	9.48	31.83	4.14	0.61	0.79	4.47	20.98	0.30
JS36	410	2.00	9.06	30.73	4.00	0.59	0.65	4.10	18.17	0.30
JS37	497	3.24	13.24	42.28	5.68	0.86	1.06	5.97	31.30	0.34
JS38	432	2.60	11.81	37.06	5.08	0.76	0.81	5.10	23.08	0.47
JS39	506	2.94	14.63	45.75	6.31	0.95	0.80	5.70	27.92	0.21
JS40	471	2.35	13.13	40.66	5.59	0.84	0.56	5.17	16.92	0.24
JS41	578	3.41	13.81	40.61	5.88	0.90	1.11	6.75	40.94	0.87
JS43	419	1.78	9.96	31.48	4.18	0.62	0.58	4.07	20.92	0.38
JS44	258	1.32	10.21	25.85	3.47	0.62	0.30	2.13	7.19	0.08
JS45	476	2.40	12.58	43.54	5.66	0.79	0.70	5.31	20.81	0.36
JS46	378	0.99	7.69	27.16	3.39	0.48	0.31	2.84	9.82	0.08
JS47	547	2.88	13.31	43.92	5.94	0.86	0.95	6.28	29.91	0.64
JS48	557	2.96	13.61	43.98	6.03	0.86	0.95	6.37	29.27	0.67
JS49	483	2.33	12.07	40.28	5.35	0.77	0.72	5.30	21.03	0.49
JS50	471	2.23	11.83	40.30	5.23	0.75	0.65	5.19	15.60	0.23
JS51	392	1.52	8.92	32.61	4.16	0.58	0.48	3.46	15.51	0.14
JS52	640	3.16	15.25	50.10	6.96	0.98	0.92	6.61	28.21	0.17
JS53	420	1.75	9.21	29.81	4.14	0.59	0.50	3.88	15.82	0.11
JS54	396	1.54	9.72	32.79	4.46	0.64	0.26	3.62	11.55	0.04
JS55	382	1.47	8.64	29.17	3.88	0.57	0.33	3.35	10.24	0.06
JS56	764	4.79	15.42	44.72	6.76	1.02	1.54	9.05	39.04	0.69
JS57	608	4.71	13.53	40.92	6.35	0.90	1.57	8.08	44.05	1.05

Sample	Ba ppm	Th ppm	Nb ppm	Y ppm	Hf ppm	Ta ppm	U ppm	Pb ppm	Rb ppm	Cs ppm
JS58	437	1.95	8.83	30.37	4.09	0.56	0.58	4.09	19.62	0.17
JS59	736	3.77	15.07	42.04	6.67	0.97	1.18	7.49	36.87	0.39
JS60	708	3.92	12.84	44.72	5.78	0.82	1.07	7.65	30.00	0.47
JS61	444	2.16	10.76	45.96	4.86	0.71	0.65	4.43	15.65	0.15
JS63	421	2.12	10.73	36.29	4.84	0.70	0.69	4.11	19.70	0.24
JS64	293	1.01	7.19	25.23	3.36	0.47	0.18	2.45	7.55	0.10
JS65	874	3.25	12.38	36.97	5.62	0.73	0.97	8.45	35.30	0.27
JS66	603	3.25	9.54	33.46	4.86	0.63	0.92	5.77	28.01	0.65
JS72	846	2.99	13.23	40.14	5.79	0.77	1.05	8.48		0.39
STM 1c	519	2.05	9.68	31.14	4.38	0.61	0.44	4.40	19.29	0.13
STM 4	372	1.84	9.59	30.47	4.29	0.64	0.35	3.66	12.47	0.07
STM 6	378	1.73	9.50	33.75	4.28	0.62	0.58	3.71	15.57	0.12
STM 9	726	5.95	15.69	44.97	7.02	1.07	2.10	9.58	51.61	1.20
STM 10	454	2.00	10.62	33.64	4.42	0.68	0.69	4.46	19.99	0.37
STM 11	300	1.61	11.26	27.92	3.81	0.70	0.36	2.52	7.66	0.12
STM 12b	383	1.67	10.48	34.73	4.40	0.67	0.51	4.22	16.31	0.10
STM 13	390	1.82	10.66	35.72	4.62	0.69	0.43	4.12	10.36	0.10
STM 15	541	2.86	13.48	42.49	5.81	0.87	0.88	6.06	19.58	0.39
STM 18	329	1.56	7.83	27.56	3.44	0.53	0.50	3.33	12.13	0.20
STM 21b	416	1.71	10.42	35.06	4.56	0.67	0.34	4.06	11.63	0.13
STM 25	375	1.39	8.63	30.18	3.92	0.57	0.41	3.40	9.18	0.16
STM 29	457	2.24	9.13	27.86	4.21	0.61	0.78	5.00	23.20	0.48
STM 33	615	3.04	16.76	50.86	7.24	1.08	0.44	6.74	25.97	0.15
STM 34	590	2.79	15.58	46.87	6.74	0.98	0.65	6.06	26.02	0.18
STM 37	925	2.58	12.89	33.89	5.01	0.75	0.78	7.64	33.24	0.23
STM 40	469	1.97	11.07	35.01	4.95	0.74	0.69	4.10	20.22	0.29
STM 41	449	1.90	10.91	33.44	4.71	0.71	0.69	4.31	19.62	0.36
STM 44	481	2.22	9.88	31.90	4.44	0.65	0.68	4.40	16.95	0.13
STM 48	561	2.70	13.46	39.21	5.80	0.88	0.43	5.43	22.96	0.21
NMSB-5	289	1.80	10.73	28.68	3.93	0.72	0.40	3.20	9.4	0.17
NMSB-6	293	1.54	8.37	26.32	3.65	0.56	0.25	2.61	5.6	0.12

Sample	Sr ppm	Sc ppm	Zr ppm	1/Sr	Nb/Ta	Zr/Nb	Ca ppm	Al ppm	Ca/Al	K ppm
MF9463	442	29.5	145	0.0023	15.12	14.70	68949.80	87440.54	0.789	7119.2
MF9464	523	25.0	122	0.0019	15.34	14.95	77453.46	103958.40	0.745	4676.2
MF9465	412	30.4	144	0.0024	15.17	13.69	66130.56	78945.14	0.838	7425.4
MF9466	341	31.7	124	0.0029	14.77	15.80	72143.93	77932.76	0.926	4868.9
MF9467	342	38.1	163	0.0029	15.27	15.72	73815.96	77913.39	0.947	6803.9
MF9468	323	32.3	136	0.0031	14.73	15.82	73968.17	85328.94	0.867	5726.7
MF9469	307	32.9	119	0.0033	14.90	15.15	73545.49	77981.26	0.943	4532.5
MF9470	502	28.8	133	0.0020	15.80	15.06	74178.81	94864.53	0.782	5154.4
MF9471a	419	35.1	140	0.0024	15.01	14.99	72545.88	82293.43	0.882	5967.6
MF9471b	450	31.2	153	0.0022	15.38	14.87	71562.54	87145.99	0.821	6887.0
MF9471c							72970.87	81179.28	0.899	6143.5
MF9472	354	34.6	111	0.0028	15.41	14.93	71422.93	74980.99	0.953	4010.6
JS1							71398.53	93880.08	0.761	6392.5
JS2							75758.20	77580.72	0.977	5479.3
JS3							73828.51	85518.72	0.863	5645.4
JS4							71398.53	75940.20	0.940	4732.1
JS5							77044.66	89117.28	0.865	4151.0
JS6							76115.55	87000.48	0.875	5562.3
JS7							74543.21	78797.88	0.946	4400.1
JS8							77402.01	78109.92	0.991	5064.2
JS9					15.03		75972.61	78956.64	0.962	5811.4
JS10							79188.76	77845.32	1.017	4483.1
JS11							76758.78	83560.68	0.919	2324.6
JS12							81189.92	80226.72	1.012	2988.7
JS13							68611.20	70859.88	0.968	4732.1
JS14							74114.39	75993.12	0.975	3071.7
JS15							77330.54	79697.52	0.970	3237.8
JS16							73185.28	78692.04	0.930	4400.1
JS17	305	33.5	121	0.0033	14.75	15.18	72666.46	77735.71	0.935	4884.1
JS18	311	34.3	122	0.0032	15.06	15.47	74527.47	80771.11	0.923	5681.4
JS19	403	32.4	191	0.0025	14.87	15.32	65724.69	80270.26	0.819	9854.0
JS20	392	32.8	192	0.0025	14.80	15.43	63955.90	78706.27	0.813	11357.8
JS21	388	34.5	190	0.0026	14.85	15.60	66703.75	77964.81	0.856	9165.4

Sample	Sr ppm	Sc ppm	Zr ppm	1/Sr	Nb/Ta	Zr/Nb	Ca ppm	Al ppm	Ca/Al	K ppm
JS22	351	31.6	109	0.0029	14.65	16.73	75123.92	84527.48	0.889	3976.5
JS23	392	30.7	123	0.0026	14.97	16.14	70039.32	85412.75	0.820	4777.4
JS24	375	37.7	170	0.0027	14.72	16.27	71704.59	79451.15	0.902	5732.5
JS25	379	33.1	124	0.0026	15.07	16.53	73225.24	84447.51	0.867	4379.6
JS26	411	31.8	115	0.0024	15.10	16.42	72377.15	84906.73	0.852	4255.3
JS27	416	29.8	97	0.0024	15.17	16.37	74562.13	88183.81	0.846	4949.6
JS28	462	28.4	115	0.0022	15.59	16.55	64380.87	83983.00	0.767	5284.9
JS29	510	29.7	124	0.0020	15.17	16.27	70703.29	91416.02	0.773	5527.9
JS30	447	34.6	128	0.0022	15.37	16.69	66598.76	80736.23	0.825	5799.8
JS31	588	37.1	116	0.0017	15.66	16.10	69718.92	88337.87	0.789	6017.2
JS32	532	26.3	177	0.0019	15.48	14.26	56289.20	86880.60	0.648	16492.3
JS33	539	29.2	183	0.0019	15.83	14.54	57952.12	84937.28	0.682	14885.9
JS34	500	32.1	154	0.0020	15.42	16.22	63039.44	86792.24	0.726	10299.3
JS36	475	32.4	146	0.0021	15.33	16.12	66141.25	86444.72	0.765	9317.9
JS37	427	32.4	211	0.0023	15.35	15.92	58481.27	80866.30	0.723	12613.0
JS38	472	34.6	189	0.0021	15.48	15.97	64761.56	82511.96	0.785	10693.9
JS39	436	37.8	231	0.0023	15.46	15.76	59275.00	75286.32	0.787	12224.6
JS40	470	35.9	207	0.0021	15.67	15.78	62583.60	79740.22	0.785	10460.3
JS41	483	31.4	219	0.0021	15.42	15.88	57410.96	82541.72	0.696	18044.3
JS43	512	34.8	154	0.0020	16.18	15.49	68255.92	84433.19	0.808	10638.7
JS44	522	29.2	126	0.0019	16.36	12.36	72999.01	85990.11	0.849	4682.9
JS45	462	40.6	210	0.0022	15.83	16.73	63827.28	78684.52	0.811	10813.9
JS46	726	27.9	122	0.0014	15.92	15.89	61926.06	90655.33	0.683	7483.0
JS47	474	37.8	221	0.0021	15.40	16.61	59201.48	77673.91	0.762	14069.5
JS48	472	37.8	225	0.0021	15.85	16.53	58956.69	77507.36	0.761	13776.3
JS49	505	37.2	199	0.0020	15.61	16.45	62237.72	80986.58	0.768	11031.6
JS50	505	41.0	193	0.0020	15.80	16.35	64043.11	81308.44	0.788	9945.9
JS51	520	31.5	150	0.0019	15.30	16.80	64493.71	86987.19	0.741	8122.2
JS52	454	34.6	255	0.0022	15.51	16.74	56284.72	76882.94	0.732	14594.6
JS53	623	23.5	153	0.0016	15.55	16.57	66357.64	101832.61	0.652	8826.9
JS54	521	28.9	161	0.0019	15.18	16.59	64817.65	87812.85	0.738	8044.2
JS55	610	24.5	142	0.0016	15.13	16.42	67504.29	100418.34	0.672	7659.4
JS56	496	28.5	252	0.0020	15.15	16.33	50942.18	83137.63	0.613	17710.7
JS57	450	29.0	239	0.0022	15.12	17.68	50088.33	81214.68	0.617	18315.7

Sample	Sr ppm	Sc ppm	Zr ppm	1/Sr	Nb/Ta	Zr/Nb	Ca ppm	Al ppm	Ca/Al	K ppm
JS58	553	28.3	149	0.0018	15.73	16.92	59998.05	90713.76	0.661	9371.5
JS59	513	31.7	250	0.0019	15.55	16.61	50862.81	86002.83	0.591	15853.7
JS60	517	30.3	217	0.0019	15.63	16.92	53056.73	81914.95	0.648	14975.4
JS61	494	31.2	181	0.0020	15.13	16.81	61087.56	87324.22	0.700	8709.4
JS63	502	31.0	179	0.0020	15.24	16.69	59757.69	86138.36	0.694	8843.5
JS64	601	27.3	122	0.0017	15.35	16.91	66485.06	92739.86	0.717	5946.7
JS65	671	24.6	218	0.0015	17.03	17.57	45961.16	84249.53	0.546	18612.7
JS66	498	31.1	177	0.0020	15.23	18.50	56174.22	85755.51	0.655	12418.3
JS72							41452.60	86047.92	0.482	18845.5
STM 1c	650	28.6	170	0.0015	15.96	17.56	57171.32	86316.11	0.662	10435.8
STM 4	521	26.7	166	0.0019	15.11	17.28	63477.20	92737.00	0.684	7747.7
STM 6	507	30.4	167	0.0020	15.42	17.55	62735.84	86919.97	0.722	7724.7
STM 9	424	26.6	270	0.0024	14.72	17.23	49155.23	78448.59	0.627	19687.4
STM 10	521	32.9	174	0.0019	15.61	16.34	67525.84	83238.66	0.811	10038.5
STM 11	547	28.6	148	0.0018	16.04	13.17	72195.25	85126.92	0.848	5069.6
STM 12b	577	33.2	170	0.0017	15.73	16.22	65974.85	83699.46	0.788	8881.3
STM 13	542	32.6	179	0.0018	15.45	16.76	66957.14	84102.93	0.796	8113.8
STM 15	565	28.7	228	0.0018	15.54	16.88	62411.57	89274.04	0.699	11377.0
STM 18	528	27.6	134	0.0019	14.90	17.15	65952.05	88757.24	0.743	6682.3
STM 21b	527	31.2	178	0.0019	15.52	17.10	64123.14	85057.22	0.754	8360.2
STM 25	564	28.0	149	0.0018	15.15	17.27	66240.54	90344.21	0.733	6912.8
STM 29	498	24.4	164	0.0020	14.86	17.92	61155.48	88201.02	0.693	11282.2
STM 33	442	34.6	282	0.0023	15.55	16.84	56528.92	74597.08	0.758	14207.8
STM 34	503	33.1	263	0.0020	15.84	16.88	58060.92	80941.06	0.717	13297.7
STM 37	762	18.5	201	0.0013	17.22	15.57	44540.74	88342.63	0.504	19622.5
STM 40	528	26.4	192	0.0019	15.04	17.34	58304.28	88092.69	0.662	9789.4
STM 41	550	26.0	185	0.0018	15.43	17.00	59181.58	89638.83	0.660	9676.9
STM 44	553	25.3	172	0.0018	15.17	17.42	60970.06	91125.71	0.669	10061.1
STM 48	460	28.0	228	0.0022	15.22	16.94	54807.30	81792.63	0.670	12182.0
NMSB-5	427	28.4	154	0.0023	15.00	14.36	67746.41	80067.34	0.846	6198.3
NMSB-6	369	30.8	141	0.0027	14.89	16.79	75043.73	80188.84	0.936	3896.7

Sample	K/La	La/Yb	Plag Mode	Eu/Eu*	Isotopes	Sr plag min	Sr plag max	87Sr/86Sr	143Nd/144Nd
MF9463	500.6	6.23		1.022047	Pb relative to NBS SRM981 values of			0.703547	0.512943
MF9464	372.4	6.17		1.056648				0.703530	0.512832
MF9465	469.6	6.72		0.999577				0.703842	0.512871
MF9466	409.5	5.63	3	1.002537		0.703700	0.704320	0.703805	0.512912
MF9467	457.1	5.40	5	0.976839				0.703880	0.512932
MF9468	461.4	5.24	15	0.996887				0.703672	0.512933
MF9469	422.4	4.98	0	0.993588				0.703693	0.512951
MF9470	396.4	5.92	25	1.016691					
MF9471a	432.2	5.73	30	1.001093				0.703562	0.512952
MF9471b	457.0	6.01		1.006494		0.703188	0.703738	0.703621	0.512944
MF9471c									
MF9472	375.0	5.34	1	1.03971				0.703643	0.512927
JS1									
JS2									
JS3									
JS4									
JS5									
JS6									
JS7									
JS8									
JS9	437.3	5.25							
JS10									
JS11									
JS12									
JS13									
JS14									
JS15									
JS16									
JS17	458.2	5.07		1.010317					
JS18	528.9	4.97		0.995307				0.703629	0.512958
JS19	527.1	6.09	20	0.976062		0.703301	0.704001	0.703698	0.512923
JS20	558.3	6.45		0.954449					
JS21	493.2	5.89		0.964182					

Sample	K/La	La/Yb	Plag Mode	Eu/Eu*	Isotopes	Sr plag min	Sr plag max	87Sr/86Sr	143Nd/144Nd
JS22	438.0	4.55	13	1.027292				0.703330	0.512980
JS23	452.3	5.08	15	1.042079				0.703561	0.512886
JS24	392.1	5.05		1.011154					
JS25	402.1	4.80		1.026964				0.703406	0.512992
JS26	410.6	4.70	20	1.053312				0.703478	0.512967
JS27	540.7	4.75	15	1.060681		0.703328	0.703788	0.703507	0.512971
JS28	464.2	5.49	1	1.05466				0.703549	0.512968
JS29	443.4	5.40		1.02987		0.703611	0.703881	0.703597	0.512953
JS30	459.2	5.35	3	1.011698		0.703278	0.703628	0.703548	0.513022
JS31	495.7	5.27		1.02778				0.703773	0.512926
JS32	705.6	8.97		0.959374				0.703852	0.512872
JS33	636.3	8.43		0.960137					
JS34	561.0	6.52		1.005494				0.703692	0.512896
JS36	544.1	6.31		0.988133				0.703691	0.512927
JS37	513.2	6.67		0.890201					
JS38	510.6	6.44		0.923963					
JS39	476.1	6.34		0.910321				0.703676	0.512914
JS40	455.6	6.43		0.922545					
JS41	684.1	7.33		0.917393				0.703707	0.512899
JS43	592.2	6.64		0.967641					
JS44	317.9	6.78		1.02143				0.704140	0.51281
JS45	473.4	6.01		0.920082				0.703744	0.512911
JS46	503.0	6.39		1.011334				0.703841	0.512900
JS47	555.3	6.61		0.88063					
JS48	542.1	6.59		0.905925				0.703736	0.512919
JS49	501.1	6.25		0.916295		0.703110	0.703451		
JS50	450.1	6.23		0.931797					
JS51	488.4	5.87		0.962999					
JS52	493.0	6.73		0.889306				0.703784	0.512905
JS53	495.7	6.81		0.984638					
JS54	447.2	6.45		0.980243					
JS55	466.1	6.65		1.005591				0.703694	0.512919
JS56	533.5	8.41		0.873578					
JS57	627.8	7.97		0.8546				0.703855	0.512864

Sample	K/La	La/Yb	Plag Mode	Eu/Eu*	Isotopes	Sr plag min	Sr plag max	87Sr/86Sr	143Nd/144Nd
JS58	513.1	6.89		0.978788				0.703894	0.512872
JS59	522.1	8.33		0.912394		0.703311	0.704059		
JS60	492.8	8.14		0.874733				0.704016	0.512840
JS61	360.1	6.26		0.891783					
JS63	458.9	6.20		0.959526				0.703888	0.512900
JS64	477.0	5.83		1.036359		0.703151	0.703501		
JS65	569.3	9.85		0.896997					
JS66	595.0	6.93		0.961276				0.703947	0.512874
JS72	588.2							0.703548	0.512925
STM 1c	507.8	7.74							
STM 4	452.8	6.44		1.007696					
STM 6	457.5	5.75		0.992979				0.703758	0.512928
STM 9	620.0	7.92		0.856778					
STM 10	520.4	6.65		0.969594					
STM 11	311.4	7.04		1.024532					
STM 12b	504.1	5.86		0.996479					
STM 13	432.7	6.12		0.965955					
STM 15	451.3	6.88		0.93442					
STM 18	475.3	5.94		1.020123					
STM 21b	463.0	5.94		0.988526					
STM 25	450.1	5.79		1.01029					
STM 29	659.0	6.84		0.964418					
STM 33	479.6	6.65		0.88895				0.703714	0.512936
STM 34	483.0	6.74		0.916828					
STM 37	558.0	11.80		0.955163				0.703898	0.512853
STM 40	479.6	6.67		0.96978					
STM 41	499.7	6.57		0.981305					
STM 44	526.9	6.89		1.011577				0.703781	0.512914
STM 48	507.8	7.02		0.945687					
NMSB-5	385.4	6.77	5	1.016463				0.70385	0.512811
NMSB-6	323.6	5.33	1	0.984423					

Sample	Nd	206Pb/204Pb	207Pb/204Pb	208Pb/204Pb	208Pb/206Pb	207Pb/206Pb	Spidergram	Cs
JS22	6.7	18.788	15.595	38.440	2.04600	0.83010		16.99
JS23	4.9	18.861	15.596	38.428	2.03740	0.82690		12.11
JS24								8.67
JS25	6.9	18.817	15.590	38.450	2.04330	0.82850		13.83
JS26	6.5	18.917	15.685	38.615	2.04130	0.82910		10.08
JS27	6.5	18.859	15.621	38.575	2.04540	0.82830		18.84
JS28	6.5	18.830	15.598	38.475	2.04330	0.82840		26.35
JS29	6.1	18.960	15.676	38.637	2.03780	0.82680		5.76
JS30	7.5	18.813	15.587	38.448	2.04370	0.82850		14.54
JS31	5.7	18.911	15.620	38.524	2.03710	0.82600		21.99
JS32	4.5	18.979	15.598	38.533	2.03030	0.82190		115.77
JS33								85.66
JS34	5.1	18.970	15.603	38.538	2.03150	0.82250		37.80
JS36	5.7	18.934	15.614	38.581	2.03770	0.82470		38.12
JS37								42.80
JS38								59.37
JS39	5.3	18.907	15.605	38.509	2.03680	0.82540		26.18
JS40								30.30
JS41		18.909	15.589	38.483	2.03517	0.82442		109.96
JS43								47.82
JS44	3.4	19.108	15.659	38.820	2.03160	0.81950		10.24
JS45	5.3	18.883	15.595	38.468	2.03720	0.82590		46.06
JS46	5.1	18.878	15.601	38.459	2.03720	0.82640		9.82
JS47								81.21
JS48	5.5	18.879	15.609	38.543	2.04160	0.82680		84.61
JS49								62.35
JS50								28.71
JS51								17.63
JS52	5.1	18.863	15.583	38.442	2.03790	0.82610		22.14
JS53								13.92
JS54								5.32
JS55	5.5	18.947	15.666	38.627	2.03870	0.82680		8.08
JS56								86.81
JS57	4.3	18.979	15.612	38.573	2.03240	0.82260		132.83

Sample	Rb	Ba	Th	U	K	Nb	Ta	La	Ce	Pb	Sr
MF9463	18.35	37.41	14.84	18.28	28.48	13.87	15.96	20.70	19.10	38.56	20.95
MF9464	11.52	32.83	14.29	14.80	18.70	11.40	12.92	18.28	16.26	33.19	24.80
MF9465	23.76	39.31	20.70	21.80	29.70	14.77	16.93	23.02	20.62	44.22	19.53
MF9466	14.75	30.70	16.89	15.75	19.48	11.03	12.99	17.31	15.55	34.91	16.15
MF9467	20.14	32.97	21.49	22.66	27.22	14.58	16.60	21.67	20.04	41.03	16.19
MF9468	22.23	29.33	19.46	21.17	22.91	12.08	14.26	18.07	16.45	37.19	15.30
MF9469	15.52	23.00	15.31	17.44	18.13	11.04	12.88	15.62	14.31	31.17	14.57
MF9470	16.48	32.47	14.50	14.77	20.62	12.34	13.59	18.93	17.35	34.92	23.80
MF9471a	16.64	36.38	15.23	15.63	23.87	13.11	15.19	20.10	18.18	36.37	19.84
MF9471b	20.90	37.66	16.56	18.05	27.55	14.40	16.28	21.93	19.78	39.26	21.34
MF9471c											
MF9472	11.89	25.87	12.48	11.80	16.04	10.39	11.72	15.57	14.35	25.93	16.78
JS1											
JS2											
JS3											
JS4											
JS5											
JS6											
JS7											
JS8											
JS9	0.00	24.47	16.71	18.10	23.25	13.91	16.10	19.34	17.18	39.58	0.00
JS10											
JS11											
JS12											
JS13											
JS14											
JS15											
JS16											
JS17	18.20	23.00	15.60	18.64	19.54	11.16	13.16	15.52	14.47	30.81	14.45
JS18	20.12	22.81	15.49	18.42	22.73	11.10	12.82	15.64	14.54	31.74	14.74
JS19	33.12	46.46	27.12	32.41	39.42	17.45	20.40	27.21	25.10	57.72	19.10
JS20	39.47	54.33	36.08	41.52	45.43	17.43	20.48	29.61	26.50	71.57	18.59
JS21	32.36	44.23	26.80	29.91	36.66	17.05	19.97	27.05	24.96	55.95	18.38

Sample	Rb	Ba	Th	U	K	Nb	Ta	La	Ce	Pb	Sr
JS22	10.12	17.17	9.86	11.41	15.91	9.13	10.84	13.22	12.64	22.81	16.63
JS23	15.03	25.06	12.17	16.96	19.11	10.67	12.40	15.37	14.63	28.18	18.58
JS24	13.43	32.54	17.08	18.84	22.93	14.68	17.35	21.28	20.39	37.48	17.78
JS25	10.78	24.86	11.07	13.08	17.52	10.51	12.12	15.85	15.06	26.74	17.98
JS26	8.97	24.25	9.91	11.30	17.02	9.86	11.36	15.09	14.48	24.79	19.46
JS27	11.75	22.08	9.22	11.20	19.80	8.31	9.52	13.32	12.58	23.71	19.73
JS28	14.84	32.21	11.19	14.18	21.14	9.71	10.83	16.57	15.54	29.23	21.91
JS29	13.92	34.11	11.97	14.21	22.11	10.65	12.21	18.15	17.03	30.72	24.17
JS30	14.67	34.93	12.10	14.56	23.20	10.79	12.21	18.39	17.26	33.92	21.18
JS31	20.76	41.19	11.85	13.16	24.07	10.06	11.17	17.67	16.52	36.10	27.87
JS32	74.95	86.10	36.42	53.67	65.97	17.40	19.55	34.02	28.41	83.07	25.21
JS33	56.81	88.34	33.95	46.04	59.54	17.67	19.41	34.05	29.02	86.75	25.55
JS34	33.04	67.77	27.56	37.63	41.20	13.30	15.00	26.72	22.97	62.94	23.69
JS36	28.62	58.65	23.57	30.96	37.27	12.70	14.41	24.93	21.61	57.76	22.52
JS37	49.29	71.15	38.12	50.61	50.45	18.56	21.03	35.78	30.62	84.08	20.24
JS38	36.35	61.79	30.63	38.74	42.78	16.57	18.61	30.48	27.20	71.86	22.35
JS39	43.96	72.35	34.61	38.30	48.90	20.52	23.08	37.37	33.54	80.29	20.66
JS40	26.64	67.44	27.65	26.77	41.84	18.41	20.44	33.42	30.47	72.88	22.28
JS41	64.47	82.75	40.10	53.05	72.18	19.37	21.85	38.39	33.67	95.13	22.91
JS43	32.94	59.99	20.93	27.80	42.55	13.96	15.01	26.15	23.04	57.30	24.26
JS44	11.33	36.96	15.52	14.46	18.73	14.32	15.22	21.44	18.72	29.97	24.74
JS45	32.77	68.13	28.22	33.52	43.26	17.65	19.38	33.25	29.92	74.76	21.88
JS46	15.46	54.14	11.70	14.68	29.93	10.79	11.79	21.66	19.40	40.03	34.40
JS47	47.11	78.26	33.83	45.09	56.28	18.67	21.08	36.88	32.73	88.40	22.44
JS48	46.10	79.64	34.80	45.25	55.11	19.09	20.95	36.99	33.13	89.72	22.38
JS49	33.12	69.13	27.39	34.48	44.13	16.93	18.86	32.05	29.14	74.61	23.93
JS50	24.57	67.41	26.25	30.85	39.78	16.59	18.26	32.17	28.73	73.07	23.92
JS51	24.43	56.14	17.93	22.65	32.49	12.51	14.22	24.21	21.87	48.68	24.62
JS52	44.42	91.55	37.21	43.91	58.38	21.39	23.98	43.09	38.56	93.15	21.54
JS53	24.92	60.13	20.57	23.99	35.31	12.92	14.44	25.92	23.14	54.72	29.52
JS54	18.18	56.69	18.07	12.26	32.18	13.63	15.62	26.18	23.90	51.01	24.70
JS55	16.12	54.70	17.32	15.61	30.64	12.11	13.92	23.92	21.08	47.20	28.90
JS56	61.48	109.33	56.38	73.38	70.84	21.62	24.82	48.32	40.62	127.41	23.53
JS57	69.37	87.05	55.40	74.82	73.26	18.98	21.83	42.47	35.52	113.78	21.32

Sample	Rb	Ba	Th	U	K	Nb	Ta	La	Ce	Pb	Sr
JS58	30.89	62.51	22.96	27.76	37.49	12.38	13.69	26.59	22.81	57.67	26.21
JS59	58.06	105.36	44.39	56.33	63.41	21.14	23.63	44.20	38.23	105.53	24.31
JS60	47.24	101.28	46.14	51.00	59.90	18.00	20.03	44.24	35.30	107.73	24.50
JS61	24.65	63.56	25.43	31.18	34.84	15.10	17.36	35.21	25.05	62.34	23.43
JS63	31.02	60.27	24.94	32.62	35.37	15.05	17.17	28.05	24.82	57.93	23.80
JS64	11.88	41.99	11.94	8.55	23.79	10.09	11.43	18.15	16.22	34.54	28.48
JS65	55.59	125.10	38.28	46.25	74.45	17.37	17.74	47.59	39.03	119.07	31.81
JS66	44.11	86.31	38.18	43.76	49.67	13.38	15.28	30.38	25.80	81.32	23.59
JS72	0.00	121.05	35.18	50.00	75.38	18.56	18.78	46.64	35.06	119.44	0.00
STM 1c	30.38	74.20	24.11	21.16	41.74	13.58	14.79	29.91	25.64	62.00	30.79
STM 4	19.63	53.17	21.63	16.82	30.99	13.45	15.49	24.91	21.57	51.51	24.71
STM 6	24.51	54.04	20.40	27.60	30.90	13.32	15.02	24.58	21.43	52.22	24.01
STM 9	81.28	103.88	69.94	99.88	78.75	22.01	26.00	46.22	39.80	134.94	20.08
STM 10	31.48	64.89	23.53	32.87	40.15	14.89	16.59	28.08	24.88	62.79	24.70
STM 11	12.07	42.91	18.95	17.16	20.28	15.79	17.12	23.70	20.92	35.43	25.94
STM 12b	25.68	54.79	19.70	24.11	35.53	14.70	16.25	25.65	23.23	59.44	27.37
STM 13	16.31	55.79	21.37	20.39	32.46	14.96	16.83	27.30	24.63	57.97	25.71
STM 15	30.84	77.34	33.60	41.79	45.51	18.91	21.17	36.69	32.84	85.35	26.76
STM 18	19.11	47.08	18.38	24.05	26.73	10.99	12.82	20.46	18.19	46.91	25.01
STM 21b	18.31	59.57	20.10	16.04	33.44	14.62	16.37	26.28	24.53	57.19	24.99
STM 25	14.46	53.67	16.41	19.40	27.65	12.10	13.89	22.35	20.44	47.86	26.74
STM 29	36.53	65.46	26.36	37.26	45.13	12.80	14.99	24.92	21.97	70.37	23.60
STM 33	40.90	88.02	35.79	20.80	56.83	23.50	26.29	43.12	39.22	94.90	20.96
STM 34	40.98	84.39	32.88	31.05	53.19	21.86	23.99	40.07	37.00	85.37	23.83
STM 37	52.35	132.31	30.34	37.07	78.49	18.08	18.26	51.18	41.57	107.55	36.10
STM 40	31.85	67.13	23.16	33.01	39.16	15.52	17.94	29.71	26.49	57.75	25.04
STM 41	30.89	64.24	22.30	32.78	38.71	15.31	17.25	28.19	25.52	60.72	26.05
STM 44	26.69	68.77	26.10	32.45	40.24	13.86	15.89	27.79	24.51	61.96	26.21
STM 48	36.16	80.28	31.77	20.49	48.73	18.87	21.56	34.92	31.18	76.42	21.79
NMSB-5	14.7506	41.38972	21.21981	19.2585	24.79324	15.04965	17.45333	23.4088	20.86978	45.05187	20.24661
NMSB-6	8.750881	41.95101	18.14169	12.02894	15.58667	11.74294	13.71372	17.52664	16.66733	36.77599	17.49504

Sample	Nd	P	Sm	Zr	Hf	Ti	Tb	Y	Yb	Lu	REE (norm)
MF9463	16.24	13.99	12.91	12.98	12.94	10.26	8.94	5.95	4.63	4.77	
MF9464	14.00	11.53	11.25	10.85	10.72	8.30	7.75	5.26	4.13	4.11	
MF9465	16.79	15.23	12.98	12.87	12.71	9.40	9.09	6.07	4.77	4.76	
MF9466	13.53	10.48	11.04	11.10	11.07	8.38	7.96	5.43	4.28	4.24	
MF9467	17.30	13.32	14.18	14.59	14.74	11.10	10.30	7.00	5.59	5.60	
MF9468	14.21	10.68	11.72	12.17	12.16	9.03	8.91	6.16	4.81	4.96	
MF9469	12.66	9.52	10.62	10.65	10.79	8.36	7.88	5.50	4.37	4.37	
MF9470	14.93	12.94	12.06	11.83	11.65	9.10	8.36	5.65	4.45	4.45	
MF9471a	15.91	13.34	12.91	12.51	12.53	10.27	9.05	6.21	4.89	4.98	
MF9471b	16.90	14.36	13.45	13.63	13.47	10.24	9.46	6.53	5.08	5.11	
MF9471c											
MF9472	12.43	9.97	10.06	9.87	10.02	7.73	7.37	5.15	4.06	4.16	
JS1											
JS2											
JS3											
JS4											
JS5											
JS6											
JS7											
JS8											
JS9	14.43	11.48	12.93	0.00	13.37	10.14	9.63	6.58	5.13	5.14	
JS10											
JS11											
JS12											
JS13											
JS14											
JS15											
JS16											
JS17	12.54	9.69	10.27	10.79	10.91	8.37	7.79	5.42	4.26	4.28	
JS18	12.66	9.61	10.60	10.94	10.96	8.58	7.94	5.63	4.39	4.48	
JS19	21.09	17.73	16.92	17.02	17.05	12.93	11.87	7.84	6.23	6.47	
JS20	21.70	18.06	16.94	17.12	17.28	12.64	11.95	8.06	6.40	6.56	
JS21	21.15	18.13	16.90	16.94	17.02	12.70	12.09	8.10	6.40	6.57	

Sample	Nd	P	Sm	Zr	Hf	Ti	Tb	Y	Yb	Lu	REE (norm)
JS22	11.81	8.87	10.20	9.72	9.96	8.47	7.62	5.18	4.05	4.16	
JS23	13.12	10.89	11.06	10.97	11.10	9.25	8.01	5.36	4.22	4.31	
JS24	18.23	14.64	14.91	15.20	15.11	12.23	10.93	7.39	5.87	5.91	
JS25	13.63	11.29	11.42	11.06	11.17	9.69	8.48	5.84	4.60	4.75	
JS26	13.27	11.51	10.98	10.31	10.50	9.23	8.23	5.67	4.47	4.48	
JS27	11.53	9.68	9.63	8.65	8.90	7.58	7.13	4.92	3.91	3.98	
JS28	13.89	13.15	11.10	10.23	10.14	8.77	7.87	5.34	4.21	4.38	
JS29	15.26	13.50	12.40	11.03	11.10	9.57	8.69	5.91	4.68	4.85	
JS30	15.57	14.04	12.62	11.47	11.51	10.42	9.09	6.10	4.79	4.93	
JS31	14.58	13.57	11.75	10.32	10.36	9.00	8.48	5.88	4.67	4.78	
JS32	21.04	22.62	14.84	15.80	15.07	8.23	9.28	6.46	5.28	5.60	
JS33	22.03	22.68	16.07	16.35	15.60	9.63	10.16	7.05	5.63	5.81	
JS34	18.97	18.41	14.43	13.73	13.39	9.18	9.84	7.00	5.71	5.91	
JS36	18.17	17.41	14.00	13.03	12.94	9.74	9.80	6.75	5.51	5.82	
JS37	25.31	24.07	19.30	18.82	18.39	12.16	13.01	9.29	7.48	7.80	
JS38	22.54	21.18	17.39	16.84	16.43	11.67	11.95	8.15	6.59	6.92	
JS39	28.06	27.31	21.65	20.59	20.42	15.07	14.63	10.05	8.22	8.44	
JS40	25.57	25.84	19.63	18.50	18.08	13.86	13.33	8.94	7.24	7.59	
JS41	26.87	27.46	20.03	19.59	19.04	12.16	12.96	8.93	7.30	7.66	
JS43	19.18	18.97	14.84	13.77	13.51	9.99	10.01	6.92	5.49	5.70	
JS44	15.84	14.01	12.42	11.27	11.22	8.81	8.50	5.68	4.41	4.51	
JS45	25.47	24.46	19.94	18.79	18.31	13.01	13.71	9.57	7.71	8.12	
JS46	17.34	16.05	13.48	10.92	10.98	9.21	8.87	5.97	4.72	4.94	
JS47	27.34	26.28	21.16	19.74	19.21	13.69	13.91	9.65	7.78	8.16	
JS48	27.80	26.75	21.26	20.09	19.52	13.70	14.05	9.67	7.82	8.20	
JS49	24.53	23.60	19.16	17.74	17.30	12.89	12.75	8.85	7.15	7.43	
JS50	24.79	22.90	19.32	17.27	16.93	13.35	12.91	8.86	7.20	7.44	
JS51	19.16	18.33	15.41	13.37	13.45	10.91	10.55	7.17	5.75	5.99	
JS52	32.23	31.44	24.61	22.79	22.53	14.93	16.05	11.01	8.93	9.24	
JS53	19.47	18.92	15.16	13.62	13.40	9.87	9.86	6.55	5.30	5.48	
JS54	20.61	19.57	16.20	14.40	14.44	11.20	10.80	7.21	5.66	5.94	
JS55	18.35	17.49	14.15	12.67	12.56	9.66	9.36	6.41	5.01	5.09	
JS56	31.91	30.01	23.33	22.47	21.87	12.14	14.30	9.83	8.01	8.17	
JS57	27.60	22.49	20.14	21.36	20.56	11.04	12.92	8.99	7.42	7.83	

Sample	Nd	P	Sm	Zr	Hf	Ti	Tb	Y	Yb	Lu	REE (norm)
JS58	19.14	17.61	14.80	13.34	13.23	9.63	9.68	6.67	5.38	5.65	
JS59	30.87	30.50	22.81	22.35	21.58	13.30	14.26	9.24	7.40	7.54	
JS60	29.29	27.56	21.28	19.39	18.72	12.45	13.45	9.83	7.57	8.06	
JS61	25.55	19.53	19.62	16.16	15.73	12.15	13.58	10.10	7.84	8.19	
JS63	21.22	19.53	16.56	16.00	15.67	11.88	11.42	7.98	6.30	6.51	
JS64	15.15	13.77	12.11	10.86	10.87	9.02	8.28	5.54	4.33	4.44	
JS65	30.32	34.71	21.11	19.42	18.18	10.75	11.98	8.13	6.73	6.99	
JS66	20.93	18.11	15.99	15.76	15.72	10.38	10.49	7.35	6.11	6.30	
JS72	27.58	35.83	20.97	0.00	18.74	10.88	12.04	8.82	6.69	6.89	
STM 1c	21.48	21.71	16.28	15.18	14.16	10.77	10.07	6.84	5.39	5.49	
STM 4	18.54	17.03	14.18	14.80	13.89	10.99	9.73	6.70	5.39	5.37	
STM 6	18.47	16.61	14.58	14.88	13.85	10.71	10.18	7.42	5.96	6.04	
STM 9	30.57	28.60	22.66	24.13	22.71	12.35	14.42	9.88	8.13	8.40	
STM 10	20.32	19.92	15.44	15.49	14.30	10.46	10.32	7.39	5.89	6.08	
STM 11	17.42	14.96	13.58	13.24	12.32	9.51	8.98	6.14	4.69	4.76	
STM 12b	20.00	19.17	15.68	15.18	14.23	11.89	10.78	7.63	6.10	6.43	
STM 13	21.09	20.02	16.63	15.96	14.96	11.51	11.26	7.85	6.22	6.56	
STM 15	27.18	26.06	20.97	20.32	18.80	12.85	13.35	9.34	7.43	7.80	
STM 18	15.65	13.86	12.36	11.99	11.12	9.02	8.55	6.06	4.80	4.88	
STM 21b	20.97	20.03	16.36	15.91	14.76	11.36	11.17	7.71	6.17	6.28	
STM 25	17.67	16.66	13.85	13.30	12.69	10.14	9.56	6.63	5.38	5.36	
STM 29	17.33	12.55	13.80	14.60	13.63	8.42	8.92	6.12	5.08	5.30	
STM 33	33.23	33.46	25.77	25.20	23.44	16.07	16.61	11.18	9.03	9.12	
STM 34	30.58	30.52	23.29	23.49	21.81	14.79	15.18	10.30	8.29	8.34	
STM 37	31.47	42.21	20.70	17.92	16.21	9.43	11.42	7.45	6.05	6.37	
STM 40	22.28	20.73	17.30	17.13	16.03	11.99	11.38	7.69	6.21	6.31	
STM 41	21.35	20.12	16.49	16.56	15.26	11.57	10.92	7.35	5.98	6.15	
STM 44	20.10	18.28	15.47	15.37	14.37	10.39	9.73	7.01	5.62	5.72	
STM 48	25.95	23.91	19.62	20.36	18.78	13.57	12.89	8.62	6.94	7.05	
NMSB-5	17.25742	15.3998	13.3193	13.7536	12.71191	9.755872	9.251889	6.304266	4.814893	5.157645	
NMSB-6	14.21434	11.19722	11.75091	12.54812	11.79825	8.99273	8.399204	5.785086	4.585465	4.654305	

Sample	La	Ce	Pr	Nd	Pm	Sm	Eu	Gd	Tb	Dy	Ho
MF9463	60.009	55.295	52.153	48.128		38.738	35.053	29.856	26.739	23.723	20.461
MF9464	52.983	47.089	45.209	41.486		33.747	31.574	26.015	23.194	20.545	18.081
MF9465	66.719	59.699	55.021	49.754		38.949	34.840	30.762	27.183	23.282	20.516
MF9466	50.171	45.015	43.324	40.076		33.123	29.759	26.244	23.807	20.838	18.587
MF9467	62.811	58.021	55.725	51.242		42.537	37.355	33.943	30.818	27.117	24.170
MF9468	52.367	47.643	45.537	42.109		35.156	31.827	28.696	26.655	23.582	20.822
MF9469	45.278	41.428	39.804	37.519		31.867	28.545	25.590	23.571	21.028	18.831
MF9470	54.870	50.235	47.498	44.223		36.188	32.551	27.844	25.001	21.923	18.731
MF9471a	58.266	52.651	50.643	47.146		38.745	34.665	30.510	27.083	23.793	21.191
MF9471b	63.583	57.275	54.345	50.078		40.344	36.411	32.008	28.314	25.083	22.193
MF9471c											
MF9472	45.129	41.542	39.015	36.836		30.188	28.302	24.253	22.043	19.512	17.429
JS1											
JS2											
JS3											
JS4											
JS5											
JS6											
JS7											
JS8											
JS9	56.076	49.755	44.181	42.757		38.784	35.169	31.759	28.809	25.122	22.894
JS10											
JS11											
JS12											
JS13											
JS14											
JS15											
JS16											
JS17	44.978	41.909	39.378	37.164		30.806	28.511	25.633	23.311	20.633	18.480
JS18	45.322	42.101	40.145	37.517		31.810	28.881	26.224	23.744	21.252	19.128
JS19	78.875	72.682	68.069	62.490		50.764	44.043	39.483	35.500	31.068	26.903
JS20	85.833	76.743	70.702	64.304		50.816	43.308	39.934	35.738	31.269	27.735
JS21	78.418	72.262	67.575	62.660		50.704	43.750	40.046	36.164	31.248	27.922

Sample	La	Ce	Pr	Nd	Pm	Sm	Eu	Gd	Tb	Dy	Ho
JS22	38.311	36.609	35.992	34.983		30.609	28.525	24.926	22.811	20.177	18.015
JS23	44.563	42.360	40.612	38.866		33.182	30.848	26.023	23.952	20.936	18.483
JS24	61.692	59.031	56.964	54.008		44.719	40.721	35.795	32.694	28.668	25.778
JS25	45.953	43.598	42.164	40.394		34.266	31.659	27.390	25.372	22.552	20.098
JS26	43.733	41.938	41.099	39.310		32.948	31.767	27.371	24.625	21.763	19.221
JS27	38.625	36.424	35.770	34.159		28.879	27.665	23.285	21.321	19.001	16.755
JS28	48.038	44.998	43.364	41.153		33.304	31.442	26.321	23.533	20.349	18.130
JS29	52.603	49.312	47.466	45.221		37.211	34.018	28.852	25.999	22.512	19.997
JS30	53.297	49.987	48.352	46.132		37.868	34.508	30.350	27.203	23.502	20.907
JS31	51.216	47.821	45.765	43.195		35.243	32.452	27.907	25.363	22.012	19.757
JS32	98.616	82.273	72.117	62.346		44.529	36.461	31.480	27.755	24.228	21.532
JS33	98.708	84.029	74.627	65.260		48.198	39.878	34.869	30.405	26.448	23.428
JS34	77.464	66.504	62.095	56.196		43.296	38.248	32.782	29.449	26.235	23.347
JS36	72.256	62.577	58.724	53.836		41.993	36.890	32.674	29.326	25.443	22.883
JS37	103.709	88.665	82.823	75.002		57.914	45.048	43.296	38.924	34.463	30.503
JS38	88.363	78.761	73.597	66.788		52.182	42.597	40.022	35.757	30.688	27.814
JS39	108.328	97.132	91.207	83.138		64.957	52.031	49.356	43.766	38.050	34.035
JS40	96.883	88.243	83.266	75.763		58.888	47.814	44.769	39.882	34.281	30.540
JS41	111.293	97.497	89.222	79.623		60.095	47.853	44.230	38.769	33.849	30.230
JS43	75.805	66.710	62.674	56.828		44.530	37.710	33.411	29.933	25.939	23.196
JS44	62.160	54.193	50.897	46.925		37.264	33.806	28.930	25.439	22.201	19.461
JS45	96.394	86.633	82.142	75.457		59.835	48.587	45.781	41.018	35.560	31.984
JS46	62.775	56.162	55.404	51.384		40.446	35.918	30.585	26.541	23.077	20.101
JS47	106.906	94.784	88.720	81.017		63.490	49.106	48.034	41.603	35.910	32.172
JS48	107.233	95.930	89.821	82.380		63.775	50.682	48.115	42.045	36.505	32.643
JS49	92.896	84.374	79.455	72.691		57.490	46.183	43.313	38.148	33.134	29.666
JS50	93.242	83.187	79.727	73.462		57.975	47.566	44.120	38.636	33.638	30.059
JS51	70.170	63.326	60.753	56.770		46.245	39.469	35.725	31.549	26.769	23.748
JS52	124.919	111.663	104.854	95.488		73.833	57.272	54.968	48.009	41.514	36.946
JS53	75.142	67.003	62.929	57.692		45.470	38.754	33.248	29.498	25.580	22.340
JS54	75.894	69.204	66.363	61.050		48.588	41.621	36.332	32.303	28.004	24.636
JS55	69.336	61.037	59.079	54.376		42.451	37.503	32.139	28.000	24.383	20.904
JS56	140.078	117.619	107.499	94.529		69.981	52.320	49.803	42.771	36.931	32.787
JS57	123.096	102.841	93.812	81.776		60.426	44.420	43.529	38.660	33.442	29.494

Sample	La	Ce	Pr	Nd	Pm	Sm	Eu	Gd	Tb	Dy	Ho
JS58	77.066	66.049	63.162	56.715		44.415	38.019	33.271	28.970	25.220	22.275
JS59	128.128	110.696	102.469	91.471		68.444	53.550	48.939	42.653	35.793	31.442
JS60	128.231	102.209	97.316	86.780		63.853	48.286	46.550	40.233	34.726	30.976
JS61	102.056	72.532	82.577	75.694		58.846	46.696	45.878	40.633	35.648	31.981
JS63	81.318	71.881	68.524	62.857		49.688	41.904	37.655	34.162	29.356	26.383
JS64	52.605	46.974	46.860	44.873		36.317	33.131	27.621	24.758	21.751	18.667
JS65	137.956	113.026	103.545	89.838		63.341	47.716	43.049	35.833	30.327	26.545
JS66	88.067	74.706	69.397	62.009		47.983	39.996	35.232	31.371	27.649	24.606
JS72	135.190	101.517	90.086	81.707		62.905	46.714	43.216	36.011	30.203	26.740
STM 1c	86.708	74.246	70.291	63.637		48.834	40.647	35.074	30.140	26.118	22.772
STM 4	72.197	62.446	59.937	54.921		42.527	38.270	33.428	29.119	25.590	22.820
STM 6	71.245	62.045	59.182	54.728		43.741	38.939	34.687	30.443	27.236	24.551
STM 9	133.974	115.251	103.539	90.566		67.980	49.989	48.711	43.152	37.478	32.953
STM 10	81.391	72.039	66.487	60.217		46.334	39.563	35.272	30.864	27.331	24.306
STM 11	68.697	60.562	56.756	51.626		40.745	36.761	31.017	26.851	23.733	20.377
STM 12b	74.342	67.251	64.261	59.248		47.055	41.564	36.366	32.264	28.289	25.101
STM 13	79.122	71.316	67.541	62.483		49.888	42.600	38.315	33.685	29.674	26.326
STM 15	106.360	95.089	89.388	80.537		62.918	50.872	45.967	39.941	35.532	31.030
STM 18	59.319	52.657	50.194	46.373		37.080	33.491	28.579	25.587	22.663	19.805
STM 21b	76.184	71.037	66.281	62.120		49.083	42.639	37.184	33.424	29.479	26.023
STM 25	64.798	59.189	56.056	52.358		41.549	37.009	31.715	28.610	24.685	22.246
STM 29	72.240	63.605	58.213	51.356		41.403	34.323	29.776	26.682	23.513	20.723
STM 33	124.984	113.559	107.402	98.468		77.310	59.579	56.735	49.705	43.464	37.817
STM 34	116.157	107.143	99.664	90.600		69.861	55.933	52.154	45.428	39.116	34.416
STM 37	148.371	120.356	109.621	93.239		62.098	49.157	40.830	34.180	28.328	24.531
STM 40	86.123	76.715	72.195	66.017		51.889	43.867	38.578	34.041	29.207	26.058
STM 41	81.711	73.892	68.358	63.254		49.469	42.282	36.706	32.656	28.269	25.036
STM 44	80.568	70.980	65.568	59.567		46.409	40.639	33.940	29.105	26.444	23.073
STM 48	101.225	90.285	84.494	76.897		58.874	48.810	44.352	38.559	33.325	29.186
NMSB-5	67.85589	60.43043	56.77643	51.1303		39.9579	35.96071	30.79866	27.67878	24.05475	21.07656
NMSB-6	50.80507	48.26183	44.84319	42.11426		35.25272	31.32567	28.38999	25.12781	22.27832	19.86244

Sample	Er	Tm	Yb	Lu		
MF9463	17.578	15.702	14.174	14.363		
MF9464	15.940	13.843	12.647	12.378		
MF9465	18.144	15.838	14.614	14.324		
MF9466	16.015	14.413	13.116	12.754		
MF9467	20.694	18.797	17.108	16.857		
MF9468	18.055	16.643	14.717	14.931		
MF9469	16.573	14.697	13.375	13.152		
MF9470	16.763	14.803	13.637	13.391		
MF9471a	18.515	16.100	14.977	14.976		
MF9471b	19.502	17.051	15.563	15.372		
MF9471c						
MF9472	15.094	13.641	12.436	12.508		
JS1						
JS2						
JS3						
JS4						
JS5						
JS6						
JS7						
JS8						
JS9	19.375	17.409	15.714	15.447		
JS10						
JS11						
JS12						
JS13						
JS14						
JS15						
JS16						
JS17	16.265	14.399	13.051	12.884		
JS18	16.677	14.761	13.430	13.487		
JS19	23.940	21.428	19.075	19.448		
JS20	24.343	22.053	19.584	19.747		
JS21	24.671	21.736	19.585	19.760		

Sample	Er	Tm	Yb	Lu		
JS22	15.503	13.642	12.392	12.522		
JS23	16.358	14.385	12.925	12.974		
JS24	22.435	19.981	17.979	17.791		
JS25	17.772	15.664	14.093	14.284		
JS26	17.000	15.277	13.693	13.470		
JS27	14.433	13.160	11.978	11.983		
JS28	15.898	14.554	12.884	13.188		
JS29	17.727	15.850	14.333	14.578		
JS30	18.501	16.421	14.667	14.833		
JS31	17.398	15.891	14.300	14.389		
JS32	19.056	17.215	16.177	16.840		
JS33	20.674	19.014	17.245	17.484		
JS34	20.843	18.849	17.498	17.772		
JS36	20.342	18.454	16.866	17.504		
JS37	27.027	24.645	22.904	23.460		
JS38	24.354	22.252	20.187	20.806		
JS39	29.964	27.011	25.169	25.392		
JS40	27.234	24.488	22.173	22.846		
JS41	26.616	24.230	22.357	23.037		
JS43	20.700	18.594	16.804	17.150		
JS44	16.711	14.771	13.497	13.574		
JS45	28.196	25.578	23.612	24.435		
JS46	17.934	15.986	14.464	14.858		
JS47	28.554	25.599	23.824	24.561		
JS48	28.650	26.063	23.937	24.660		
JS49	25.991	23.368	21.888	22.360		
JS50	26.474	23.633	22.035	22.370		
JS51	21.103	19.446	17.602	18.032		
JS52	32.674	29.474	27.337	27.792		
JS53	19.837	17.653	16.234	16.487		
JS54	21.725	19.314	17.320	17.880		
JS55	18.801	16.475	15.337	15.309		
JS56	29.068	26.186	24.515	24.577		
JS57	27.004	24.420	22.734	23.561		

Sample	Er	Tm	Yb	Lu		
JS58	19.808	17.954	16.471	16.986		
JS59	27.672	24.338	22.645	22.686		
JS60	28.350	25.173	23.179	24.253		
JS61	29.350	26.083	24.006	24.651		
JS63	23.729	20.861	19.299	19.583		
JS64	16.557	14.557	13.274	13.348		
JS65	24.047	21.777	20.607	21.037		
JS66	21.753	19.715	18.720	18.950		
JS72	23.000	21.457	20.497	20.732		
STM 1c	20.110	17.502	16.501	16.508		
STM 4	20.041	17.575	16.514	16.160		
STM 6	21.999	19.448	18.245	18.169		
STM 9	29.994	26.495	24.887	25.255		
STM 10	21.524	19.516	18.023	18.279		
STM 11	17.854	16.029	14.372	14.315		
STM 12b	22.160	20.204	18.674	19.347		
STM 13	23.479	20.908	19.040	19.742		
STM 15	27.582	24.612	22.766	23.462		
STM 18	17.583	16.077	14.691	14.677		
STM 21b	22.979	20.617	18.884	18.894		
STM 25	19.253	17.739	16.486	16.138		
STM 29	18.353	16.656	15.555	15.930		
STM 33	33.185	29.987	27.651	27.438		
STM 34	30.402	26.823	25.372	25.092		
STM 37	21.834	19.799	18.516	19.156		
STM 40	22.825	20.733	19.021	18.971		
STM 41	22.255	19.884	18.318	18.495		
STM 44	20.941	18.981	17.203	17.202		
STM 48	25.572	22.847	21.238	21.215		
NMSB-5	18.18685	16.50008	14.74374	15.51487		
NMSB-6	17.38127	15.64803	14.04121	14.00075		

Sample	Er	Tm	Yb	Lu		
NMSB-7	21.38951	19.22095	17.81116	17.30273		
NMSB-8	17.90421	16.49976	14.54892	14.96818		
NMSB-9	20.65853	18.43878	16.93803	17.12415		
NMSB-11	16.54796	14.78591	13.12006	13.48652		
NMSB-13	15.4533	13.668	12.49335	12.10892		
NMSB-14	23.75994	21.81936	19.93521	19.42671		
NMSB-15	14.68229	13.61196	12.1223	12.62487		
NMSB-16	16.82739	15.36713	13.85501	14.47722		
NMSB-17	17.95523	16.08651	14.43621	14.21923		
NMSB-18	15.81746	14.25025	12.79646	12.64573		
NMSB-19	15.77888	13.73785	12.93375	12.71705		
NMSB-20A	18.33765	16.88129	15.07574	15.27215		
NMSB-21	24.80327	22.58126	20.1786	20.60099		

WSU ICP-MS precision

Precision on a single sample from September 2011 to March 2012												
Statistics for 54 preparatoinis												
BCR-C (N=54) run as unknown												
	La ppm	Ce ppm	Pr ppm	Nd ppm	Sm ppm	Eu ppm	Gd ppm	Tb ppm	Dy ppm	Ho ppm	Er ppm	
Average	26.00	54.06	7.00	29.33	6.99	2.13	7.09	1.17	7.13	1.44	3.82	
Std. Dev.	0.17	0.33	0.04	0.23	0.07	0.03	0.05	0.01	0.07	0.01	0.05	
Maximum	26.30	54.44	7.08	29.75	7.15	2.17	7.16	1.19	7.25	1.45	3.90	
Minimum	25.59	53.18	6.92	28.78	6.88	2.08	6.99	1.14	7.01	1.42	3.77	
Coeff. Var (Std Dev/aver	0.66	0.60	0.58	0.79	1.02	1.23	0.76	0.97	0.94	0.82	1.19	
Precision on a single sample from September 2011 to March 2012												
Statistics for 33 preparatoinis												
TED (N=33) run as unknown												
	La ppm	Ce ppm	Pr ppm	Nd ppm	Sm ppm	Eu ppm	Gd ppm	Tb ppm	Dy ppm	Ho ppm	Er ppm	
Average	3.91	10.11	1.67	8.60	2.92	1.15	3.93	0.74	4.95	1.08	3.07	
Std. Dev.	0.04	0.14	0.01	0.06	0.05	0.01	0.04	0.01	0.04	0.01	0.03	
Maximum	3.99	10.27	1.69	8.74	2.99	1.16	3.98	0.75	5.02	1.09	3.12	
Minimum	3.86	9.71	1.65	8.52	2.87	1.12	3.87	0.72	4.88	1.07	3.01	
Coeff. Var (Std Dev/aver	0.93	1.37	0.62	0.75	1.62	1.00	0.93	1.08	0.89	0.88	1.08	

WSU ICP-MS precision

Precision on a single sample from September 2011 to March 2012												
Statistics for 54 preparatoinis												
BCR-C (N=54) run as unknown												
	Tm ppm	Yb ppm	Lu ppm	Ba ppm	Th ppm	Nb ppm	Y ppm	Hf ppm	Ta ppm	U ppm	Pb ppm	
Average	0.54	3.34	0.52	684.02	6.14	11.61	36.36	4.97	0.78	1.70	8.92	
Std. Dev.	0.01	0.03	0.01	4.43	0.06	0.08	0.22	0.04	0.01	0.02	0.32	
Maximum	0.55	3.39	0.54	690.01	6.27	11.72	36.72	5.04	0.81	1.74	9.80	
Minimum	0.54	3.30	0.50	674.10	6.03	11.44	35.85	4.89	0.77	1.66	8.69	
Coeff. Var (Std Dev/aver	1.02	0.79	1.45	0.65	1.00	0.70	0.61	0.90	1.40	1.42	3.60	
Precision on a single sample from September 2011 to March 2012												
Statistics for 33 preparatoinis												
TED (N=33) run as unknown												
	Tm ppm	Yb ppm	Lu ppm	Ba ppm	Th ppm	Nb ppm	Y ppm	Hf ppm	Ta ppm	U ppm	Pb ppm	
Average	0.45	2.84	0.46	71.02	0.44	2.38	27.30	1.84	0.15	0.14	0.82	
Std. Dev.	0.01	0.03	0.01	1.22	0.01	0.02	0.23	0.02	0.00	0.00	0.02	
Maximum	0.46	2.88	0.47	73.56	0.45	2.42	27.49	1.87	0.16	0.15	0.84	
Minimum	0.44	2.79	0.45	69.64	0.43	2.34	26.75	1.81	0.15	0.14	0.79	
Coeff. Var (Std Dev/aver	1.16	0.91	1.56	1.71	1.77	0.99	0.84	0.99	1.90	2.40	2.19	

Precision on a single sample from September 2011 to March 2012							
Statistics for 54 preparatoinis							
BCR-C (N=54) run as unknown							
	Rb ppm	Cs ppm	Sr ppm	Sc ppm	Zr ppm		
Average	45.46	0.97	340.60	32.82	185.51		
Std. Dev.	0.48	0.02	2.10	0.27	1.05		
Maximum	46.25	1.00	345.15	33.36	187.33		
Minimum	44.64	0.94	337.10	32.28	183.81		
Coeff. Var (Std Dev/average)	1.06	1.91	0.62	0.82	0.57		
Precision on a single sample from September 2011 to March 2012							
Statistics for 33 preparatoinis							
TED (N=33) run as unknown							
	Rb ppm	Cs ppm	Sr ppm	Sc ppm	Zr ppm		
Average	3.52	0.10	213.51	41.97	62.83		
Std. Dev.	0.09	0.01	3.34	0.56	0.49		
Maximum	3.72	0.11	216.65	43.25	63.94		
Minimum	3.42	0.10	206.23	41.30	62.29		
Coeff. Var (Std Dev/average)	2.50	5.75	1.56	1.34	0.78		

TABLE 4. Estimate of Accuracy. WSU and Recommended values for international rock standards.

	<u>BCR-1 Basalt</u>		<u>W-2 Diabase</u>		<u>G-2 Granite</u>		<u>DNC-1 Diabase</u>		<u>AGV-1 Andesite</u>	
	WSU		WSU		WSU		WSU		WSU	
	94GOV	10Kn	94GOV	10Kn	94GOV	10Kn	94GOV	10Kn	94GOV	10Kn
Ba	681	683	182	171	1882	1894	114	103	1226	1211
La	24.9	25.9	11.4	10.9	89	89.0	3.8	3.76	38	39.3
Ce	53.7	54.3	24	23.3	160	162	10.6	8.29	67.0	70
Pr	6.8	7.06	(5.9)	3.06	18	16.8	1.3	1.12	7.6	8.6
Nd	28.8	29.0	14	13.0	55	53.6	4.9	4.97	33	32.0
Sm	6.59	6.73	3.25	3.31	7.2	7.32	1.38	1.43	5.9	5.89
Eu	1.95	1.96	1.1	1.08	1.4	1.34	0.59	0.61	1.64	1.63
Gd	6.68	6.56	3.6	3.58	4.3	4.05	2	1.97	5.0	4.62
Tb	1.05	1.05	0.63	0.61	0.48	0.46	0.41	0.38	0.70	0.64
Dy	6.34	6.43	3.8	3.86	2.4	2.15	2.7	2.77	3.6	3.56
Ho	1.26	1.32	0.76	0.82	0.4	0.37	0.62	0.64	0.67	0.69
Er	3.63	3.55	2.5	2.22	0.92	0.86	2	1.88	1.7	1.81
Tm	0.56	0.52	0.38	0.32	0.18	0.12	0.33	0.29	0.34	0.26
Yb	3.38	3.26	2.05	2.01	0.8	0.69	2.01	1.93	1.72	1.64
Lu	0.51	0.49	0.33	0.31	0.11	0.10	0.32	0.30	0.27	0.24
Rb	47.2	48.4	20	20.4	170	169	4.5	3.8	67.3	68.0
Y	38	35.6	24	21.6	11	9.6	18	17.5	20	19.0
Nb	14	11.3	7.9	6.84	12	11.3	3	1.41	15	12.9
Cs	0.96	0.96	0.99	0.89	1.34	1.33	0.34	0.20	1.28	1.24
Hf	4.95	4.98	2.56	2.56	7.9	7.76	1.01	1.01	5.1	5.17
Ta	0.81	0.79	0.5	0.46	0.88	0.80	0.098	0.09	0.9	0.85
Th	5.98	5.86	2.2	2.15	24.7	24.1	0.2	0.28	6.5	6.2
U	1.75	1.65	0.53	0.51	2.07	1.96	0.1	0.05	1.92	1.85
Sr	330	321	194	192	478	463	145	140	662	641
Pb	13.6	13.4	9.3	7.71	30	30.6	6.3	6.27	36	35.7

TABLE 4. Estimate of Accuracy. WSU and Recommended values for international rock standards.

	<u>BCR-1 Basalt</u>		<u>W-2 Diabase</u>		<u>G-2 Granite</u>		<u>DNC-1 Diabase</u>		<u>AGV-1 Andesite</u>	
	WSU		WSU		WSU		WSU		WSU	
	94GOV	10Kn	94GOV	10Kn	94GOV	10Kn	94GOV	10Kn	94GOV	10Kn
Sc	32.6	32.3	35	35.6	3.5	3.7	31	30.7	12.2	11.8
Zr	190	181	94	92	309	310	41	36	227	220

TABLE 4. Estimate of Accuracy. WSU and Recommended values for international rock standards.

	<u>GS-N Granite</u>		<u>BIR-1 Basalt</u>		<u>BHVO-1 Basalt</u>		<u>AC-E Granite</u>		<u>QLO-1 Qtz Latite</u>	
	WSU		WSU		WSU		WSU		WSU	
	94GOV	10Kn	94GOV	10Kn	94GOV	10Kn	95GOV	10Kn	94GOV	10Kn
Ba	1400	1362	7.7	9	139	130	55	55	1370	1399
La	75	72.1	0.62	0.76	15.8	15.6	59	61.5	27	27.1
Ce	135	132	1.95	2.18	39	38.0	154	159	54	50.8
Pr	14.5	14.4	0.38	0.42	5.7	5.44	22.2	22.4	6.0	6.06
Nd	49	48.5	2.5	2.50	25	24.6	92	93.8	26	23.1
Sm	7.5	7.51	1.1	1.13	6.2	6.11	24.2	25.5	4.88	4.83
Eu	1.7	1.56	0.54	0.52	2.06	2.06	2	1.99	1.43	1.33
Gd	5.2	4.83	1.85	1.82	6.4	6.19	26	26.1	4.7	4.17
Tb	0.6	0.59	0.36	0.36	0.96	0.93	4.8	4.81	0.71	0.65
Dy	3.1	3.17	2.5	2.59	5.2	5.33	29	31.0	3.8	3.95
Ho	0.6	0.60	0.57	0.59	0.99	1.00	6.5	6.50	0.86	0.84
Er	1.5	1.53	1.7	1.70	2.4	2.55	17.7	18.3	2.3	2.38
Tm	0.22	0.22	0.26	0.25	0.33	0.33	2.6	2.75	0.37	0.36
Yb	1.4	1.38	1.65	1.68	2.02	1.90	17.4	17.4	2.32	2.39
Lu	0.22	0.21	0.26	0.25	0.291	0.27	2.45	2.44	0.37	0.38
Rb	185	187	0.25	0.47	11	9.7	152	151	74	72.6
Y	16	16.7	16	15.9	28	26.4	184	184	24	23.7
Nb	21	22.3	0.6	0.53	19	17.2	110	110	10.3	9.7
Cs	5.4	5.59	0.005	0.01	0.13	0.10	3	2.85	1.75	1.66
Hf	6.2	6.12	0.58	0.59	4.38	4.44	27.9	27.9	4.6	4.56
Ta	2.6	2.34	0.04	0.04	1.23	1.17	6.4	6.50	0.82	0.80
Th	41	41.3	0.03	0.09	1.08	1.27	18.5	18.5	4.5	4.85
U	7.5	7.94	0.01	0.02	0.42	0.43	4.6	4.59	1.94	1.89
Sr	570	564	108	107	403	385	3	3	336	329
Pb	53	52.2	3.2	3.04	2.6	2.03	39	38.6	20.4	23.1

TABLE 4. Estimate of Accuracy. WSU and Recommended values for international rock standards.

	<u>GS-N Granite</u>		<u>BIR-1 Basalt</u>		<u>BHVO-1 Basalt</u>		<u>AC-E Granite</u>		<u>QLO-1 Qtz Latite</u>	
	WSU		WSU		WSU		WSU		WSU	
	94GOV	10Kn	94GOV	10Kn	94GOV	10Kn	95GOV	10Kn	94GOV	10Kn
Sc	7.3	7.3	44	43.3	31.8	31.9	0.11	0.9	8.9	8.8
Zr	235	218	22	15	179	167	780	805	185	179

TABLE 4. Estimate of Accuracy. WSU and Recommended values for international rock standards.

	<u>GSP-1 Granodiorite</u>		<u>DNC-1 Dolerite</u>		<u>FK-N K-feldspar</u>		<u>JG-1 Granodiorite</u>		<u>JB-1a Basalt</u>	
	WSU		WSU		WSU		WSU		WSU	
	94GOV	10Kn	94GOV	10Kn	95GOV	10Kn	94GOV	10Kn	94GOV	10Kn
Ba	1310	1294	114	103	200	195	462	466	504	499
La	184	184	3.8	3.76	0.95	0.76	22.4	22.6	37.6	40.2
Ce	399	432	10.6	8.29	1	0.92	45.9	46.9	65.9	68.5
Pr	52	55.3	1.3	1.12	0.09	0.09	5.21	5.37	7.3	7.34
Nd	196	201	4.9	4.97	0.3	0.29	19.5	20.3	26	26.8
Sm	26.3	25.6	1.38	1.43	0.05	0.07	4.67	4.68	5.07	5.11
Eu	2.33	2.21	0.59	0.61	0.45	0.40	0.74	0.72	1.46	1.50
Gd	12.1	12.4	2	1.97	0.06	0.09	4.2	4.41	4.67	4.58
Tb	1.34	1.24	0.41	0.38	0.01	0.02	0.83	0.76	0.69	0.68
Dy	5.5	5.66	2.7	2.77	0.06	0.10	4.14	4.91	3.99	4.10
Ho	1.01	0.95	0.62	0.64	0.012	0.02	0.83	1.01	0.71	0.82
Er	2.7	2.18	2	1.88	0.04	0.06	2.16	2.91	2.18	2.18
Tm	0.38	0.28	0.33	0.29	0.006	0.01	0.44	0.45	0.33	0.31
Yb	1.7	1.61	2.01	1.93	0.04	0.07	2.49	2.90	2.1	1.92
Lu	0.214	0.23	0.32	0.30	0.006	0.01	0.39	0.44	0.33	0.29
Rb	254	254	4.5	3.8	860	860	181	179	39.2	35.2
Y	26	26.0	18	17.5	0.5	0.66	28.5	29.9	24	22.0
Nb	27.9	24.7	3	1.41	0.3	0.51	12.6	10.8	26.9	25.0
Cs	1.02	1.01	0.34	0.20	7	6.69	10.2	10.2	1.31	0.83
Hf	15.5	14.3	1.01	1.01	0.04	0.06	3.79	3.78	3.41	3.34
Ta	0.97	0.87	0.098	0.09	0.25	0.30	1.7	1.49	1.93	1.54
Th	106	104	0.20	0.28	0.15	0.19	13.5	14.0	9.03	9.57
U	2.54	2.35	0.10	0.05	0.15	0.28	3.3	4.09	1.57	1.63
Sr	234	223	145	140	39	35	184	181	442	427
Pb	55	54.6	6.3	6.27	240	239	26.2	27.3	6.76	6.33

TABLE 4. Estimate of Accuracy. WSU and Recommended values for international rock standards.

	<u>GSP-1 Granodiorite</u>		<u>DNC-1 Dolerite</u>		<u>FK-N K-feldspar</u>		<u>JG-1 Granodiorite</u>		<u>JB-1a Basalt</u>	
	WSU		WSU		WSU		WSU		WSU	
	94GOV	10Kn	94GOV	10Kn	95GOV	10Kn	94GOV	10Kn	94GOV	10Kn
Sc	6.2	6.6	31	30.7	0.05	0.2	6.54	6.6	27.9	30
Zr	530	529	41	36	0.7	1	114	116	144	124