Sample	MH13	GSL-17	RH-3	BM901	UP904	GSL-55
Age, Ma			34.6			
Long W	103 05	103 15.8	105 18	103 26.6	103 12.3	103 16.6
Lat N	29 17	29 20.1	31 39	29 53.7	29 51.2	29 19.5
SiO2	64.67	62.61	62.80	60.21	60.22	61.73
TiO2	0.57	0.60	0.40	0.13	0.13	0.57
Al2O3	16.63	15.80	17.50	16.46	16.76	14.98
Fe2O3	1.27	1.22	5.85	4.56	3.26	1.16
FeO	5.26	5.02	0.44	0.34	1.13	4.77
FeO*						
MnO	0.20	0.18	0.12	0.35	0.33	0.15
MgO	0.14	0.61	0.05	0.04	0.29	1.01
CaO	2.31	2.36	0.36	0.65	1.03	3.08
Na2O	4.93	5.03	6.00	8.33	7.10	4.55
K2O	6.24	5.50	5.73	4.30	5.00	5.37
P2O5	0.22	0.21	0.18	0.03	0.10	0.24
H2O+			1.26	1.34	1.74	
H2O-			0.13	0.15	0.34	
CO2				0.18	0.03	
Total	102.44	99.14	100.82	96.88	97.34	97.61
SiO2'	63.13	63.15	63.16	63.24	63.24	63.24
(Na2O+K2O)'	10.90	10.62	11.80	13.27	12.71	10.16
Sc	19.17	11.4		0.7	0.7	11.1
V				75	86	
Cr	3.3	1.93				1.61
Ni						5
Cu				7	47	
Zn	135	129	89	385	423	127
Ga						
Rb	101	99	198	347	323	98
Sr	65	158	20	15	117	165
Y	45	30	41	169	155	27
Zr	818	457	1150	2118	1951	573
Nb	32*	21*	109	585	526	24*
Cs	1.47	1.54		6	3.7	1.09
Ba	662	2504		43	59	1936
La		102				106
Ce		120				125
Pr						
Nd		59.7				53.8
Sm		10.7				10.9
Eu		3.59				3.05
Gd						
Tb		1.58				1.63
Dy						
Ho						
Er						
Tm						
Yb		4.61				4.75
Lu		0.65				0.66

Hf	14.53	11.17		59	52	12.19
Ta	2.91	3.42		40	36	3.51
Pb						
Th	9.75	10.83		79	66	11.57
U	2.44	4.91		20	7.6	5.91
Li				107	101	
F						
Rb/Sr	1.55	0.63	9.9	23.1	2.76	0.59
Cen/Ybn		7.04				7.11
Eu*		1.02				0.84
Zr/Hf	56.3	40.9		35.9	37.5	47
Ba/Rb	6.55	25.3		0.12	0.18	19.8
Rb/Th	10.4	9.14		4.39	4.89	8.47
87Sr/86Sr,I						
143Nd/144Nd						
206Pb/204Pb						
207Pb/204Pb						
208Pb/204Pb						

Sample	UP907	MH15	H92-59	Bof-2	F3D	J83-22
Age, Ma			26.8	26.8		
Long W	103 12.3	103 05	104 0.2	104 0.5	104 06.3	103 24
Lat N	29 51.2	29 17	29 27.9	29 27	29 23	29 36
SiO2	59.28	61.35	63.28	62.80	63.31	62.22
TiO2	0.12	0.59	1.16	0.68	1.10	0.73
Al2O3	16.60	15.28	15.38	17.40	16.34	15.16
Fe2O3	3.26	1.22		2.12		2.36
FeO	0.45	5.05		1.56		4.36
FeO*			6.16		5.44	
MnO	0.31	0.19	0.17	0.16	0.17	0.20
MgO	0.23		0.87	0.62	0.91	0.56
CaO	1.18	2.32	1.71	2.31	2.34	2.38
Na2O	7.27	4.67	5.72	5.90	4.62	4.65
K2O	5.01	6.10	5.22	5.43	5.52	5.13
P2O5	0.01	0.22	0.33	0.23	0.27	0.23
H2O+	2.35			0.62		0.30
H2O-	0.38			0.22		
CO2	0.21			0.88		
Total	96.66	96.99	98.25	100.94	100.02	98.28
SiO2'	63.25	63.25	63.28	63.29	63.30	63.31
(Na2O+K2O)'	13.10	11.10	10.94	11.42	10.14	9.95
Sc	0.8	19.91	5			
V	72		28			
Cr		2.93	2			
Ni			5		13.3	
Cu	17		2			
Zn	344	126	177			
Ga			25			
Rb	317	103	168			82
Sr	71	70	205		255	159
Y	133	44	78		65	43
Zr	1650	868	1320			444
Nb	463	31*	200.2		54*	39*
Cs	8.4	1.36				
Ba	73	603	720			
La	276.4		135			
Ce	433.8		271			
Pr						
Nd	162.7					
Sm	21.2					
Eu	1.95					
Gd	19.64					
Tb						
Dy	19.6					
Ho						
Er	12.51					
Tm						
Yb	12.6					
Lu	1.99					

Hf	41	15.03				
Ta	28	3.14				
Pb	50		12			
Th	55	10.12	24			
U	9.8	2.31				
Li	60					
F	380					
Rb/Sr	4.46	1.47	0.82			0.52
Cen/Ybn	9.31					
Eu*	0.29					
Zr/Hf	40.2	57.8				
Ba/Rb	0.23	5.85	4.29			
Rb/Th	5.76	10.2	7			
87Sr/86Sr,I						
143Nd/144Nd	0.512551					
206Pb/204Pb	18.175					
207Pb/204Pb	15.516					
208Pb/204Pb	37.878					

Sample	Mil-1	Snt-3	QM223	MH16	H91-180	MS-1
Age, Ma		35			27.09	
Long W	105 30	103 25	105 30	103 05	103 53.2	103 52
Lat N	31 52	29 50	31 10	29 17	29 28.3	30 32
SiO2	61.90	62.50	63.41	62.17	63.41	63.00
TiO2	0.06	0.33	0.61	0.57	0.62	0.68
Al2O3	18.40	17.01	17.93	16.07	16.52	17.25
Fe2O3	4.71	3.31	1.80	1.13		1.42
FeO	0.25	1.72	1.85	4.68		1.86
FeO*					4.81	
MnO	0.30	0.23	0.12	0.18	0.16	0.13
MgO	0.07	0.30	0.63	0.17	0.47	0.66
CaO	0.45	1.26	2.91	2.06	1.56	1.18
Na2O	7.70	6.88	5.41	5.03	6.54	6.72
K2O	3.83	5.18	5.17	5.76	5.80	6.16
P2O5	0.07	0.08	0.16	0.23	0.12	0.25
H2O+	0.77	0.47				0.49
H2O-	0.49	0.23				0.39
CO2	0.44					
Total	99.44	99.30	100	98.05	99.91	100.19
SiO2'	63.33	63.39	63.41	63.41	63.41	63.44
(Na2O+K2O)'	11.80	12.23	10.58	11.00	12.34	12.97
Sc		9.3	2.2	18.95		
V		62	14		7	
Cr			5.4	2.64	1	
Ni					5	
Cu		14	11		4	
Zn		155	73	122	134	
Ga					28	
Rb	167	147	100	97	152	
Sr	20	28	373	51	41	
Y	54	61	41	46	58	
Zr	1610	810	734	882	847	
Nb	212	172	44	39*	160	
Cs		3.6	1.96	1.69		
Ba		73	670	689	421	
La		112	48.4		100	
Ce		216	97.5		235	
Pr						
Nd		90	49.9			
Sm		12	6.7			
Eu		1.7	2.3			
Gd						
Tb		1.7	1.06			
Dy						
Ho			0.61			
Er						
Tm						
Yb		5.8	2.5			
Lu		0.89	0.54			

Hf		19	16	15.4		
Ta		11	2.1	3.21		
Pb		9			13	
Th		20	11	10.54	19	
U		5.7	1.59	2.4		
Li			14			
F		1300	410			
Rb/Sr	8.35	5.25	0.27	1.9	3.71	
Cen/Ybn		10.07	10.54			
Eu*		0.43	1.02			
Zr/Hf		42.6	45.9	57.3		
Ba/Rb		0.5	6.7	7.1	2.77	
Rb/Th		7.35	9.09	9.2	8.0	
87Sr/86Sr,I						
143Nd/144Nd						
206Pb/204Pb						
207Pb/204Pb						
208Pb/204Pb						

Sample	Chin 448	MH221	PP-3	DP-142	DML-1	H91-190
Age, Ma	32.6			36.6		27.1
Long W	104 25	103 05	103 46	103 59	103 45	103 55.7
Lat N	29 49	29 17	30 19	30 49	30 30	29 29.7
SiO2	61.97	62.75	63.00	62.23	63.10	63.68
TiO2	1.23	0.44	0.48	0.94	1.03	0.64
Al2O3	15.29	17.30	16.97	16.64	16.62	16.83
Fe2O3	4.57	1.23	1.94	4.09	0.91	
FeO	0.90	5.07	2.92	0.96	3.76	
FeO*				4.64		4.55
MnO	0.14	0.19	0.34	0.04	0.10	0.09
MgO	1.42	0.21	0.52	0.75	0.95	0.35
CaO	2.68	2.11	1.02	2.41	2.43	1.39
Na2O	4.51	5.18	6.80	5.21	4.99	6.59
K2O	4.43	5.21	5.14	4.67	4.78	5.79
P2O5	0.53	0.17	0.14	0.39	0.62	0.10
H2O+	1.01		0.35			
H2O-	0.37		0.11			
CO2	0.01		0.05			
Total	99.06	98.86	99.73	97.92	99.20	100.30
SiO2'	63.45	63.47	63.50	63.55	63.61	63.68
(Na2O+K2O)'	9.15	10.51	12.03	10.09	9.85	12.38
Sc		16.23	19.8			5
V			37			3
Cr		1.25				
Ni						5
Cu			18			
Zn		139	133			132
Ga						29
Rb		108	90	101		148
Sr		31	5	305		39
Y		64	57	49		61
Zr		823	698	590		919
Nb		40*	114	46*		164
Cs		0.96	2.1			
Ba		507	583	1184		381
La						117
Ce						220
Pr						
Nd				56.6		
Sm				11.2		
Eu						
Gd						
Tb						
Dy						
Ho						
Er						
Tm						
Yb						
Lu						

Hf		21.28	16			
Ta		3.76	6.8			
Pb				15.6		15
Th		12.37	12	10.4		19
U		4.72	1.5	2.44		
Li			34			
F						
Rb/Sr		3.48	18	0.33		3.79
Cen/Ybn						
Eu*						
Zr/Hf		38.7	43.6			
Ba/Rb		4.69	6.48			2.57
Rb/Th		8.73	7.5	9.71		7.79
87Sr/86Sr,I				0.70495		
143Nd/144Nd				0.512645		
206Pb/204Pb				17.791		
207Pb/204Pb				15.481		
208Pb/204Pb				37.672		

Sample	GSL-80	RS71-8a	J81-206	H91-191	BB83-8a	
Age, Ma		35.6-35.3		27.3-27.0		
Long W	103 16		104 54	103 57.2		
Lat N	29 20.1		31 26	29 25.9		
SiO2	61.94	64.36	63.29	63.73	65.61	
TiO2	0.61	1.05	0.89	0.68	0.25	
Al2O3	15.31	16.06	16.45	17.77	11.90	
Fe2O3	1.19	5.26	1.65		5.66	
FeO	4.93		3.11			
FeO*				4.27		
MnO	0.18	0.07	0.09	0.08	0.07	
MgO	0.56	0.63	0.53	0.49	0.32	
CaO	2.33	3.04	1.79	2.34	1.11	
Na2O	4.53	5.02	5.44	5.42	2.54	
K2O	5.45	5.22	5.89	5.03	5.17	
P2O5	0.22	0.30	0.18	0.18	0.21	
H2O+			0.11			
H2O-						
CO2			0.30			
Total	97.25	101.00	99.72	99.44	102.84	
SiO2'	63.69	63.72	63.73	63.73	63.80	
(Na2O+K2O)'	10.26	10.14	11.41	10.45	7.50	
Sc	12	7.98		11	0.23	
V			6	18		
Cr	1.87			3	4.51	
Ni	5		4	4		
Cu			15	5		
Zn	136	117	170	117	209	
Ga				25		
Rb	103	161	174	64	271	
Sr	156	403	230	462	63	
Y	29	53	53	45	20.3*	
Zr	540	725	410	626	1446	
Nb	21*	53	67	83	162	
Cs	1.84	1.92			1.49	
Ba	2541	1066	980	1660	586	
La	105	78.4		61	236	
Ce	125	156		114	479	
Pr						
Nd	53	65.86			230	
Sm	11.2	11.73			39.9	
Eu	3.73	2.48			0.41	
Gd						
Tb	1.71	0.58			5.98	
Dy						
Ho						
Er						
Tm						
Yb	4.68	6.07			16.39	
Lu	0.65	0.81			2.15	

Hf	11.41	20.4			44.21	
Ta	3.65	7.03			12.48	
Pb				11		
Th	10.98	22.18	17	10	54.42	
U	4.81	9			11.46	
Li						
F			1200			
Rb/Sr	0.66	0.40	0.76	0.14	4.3	
Cen/Ybn	7.22	6.95			7.9	
Eu*	1	0.76			0.03	
Zr/Hf	47.3	35.5			32.7	
Ba/Rb	24.7	6.62	5.63	25.9	2.16	
Rb/Th	9.38	7.26	10.2	6.4	4.98	
87Sr/86Sr,I						
143Nd/144Nd						
206Pb/204Pb						
207Pb/204Pb						
208Pb/204Pb						

Sample	Tr-10	UP905	PP-122	MH79	87116	H91-211
Age, Ma	27.1				35.6-35.3	27.3-27.0
Long W	103 58.3	103 12.3	103 46	103 05	104 02	104 01.8
Lat N	29 21.8	29 51.2	30 19	29 17	30 39.6	29 29.2
SiO2	63.81	60.15	63.00	63.03	63.60	63.96
TiO2	0.88	0.12	0.58	0.46	1.20	0.63
Al2O3	16.51	16.92	17.00	15.86	16.70	17.66
Fe2O3		3.26	1.95	1.23		
FeO		0.37	2.68	5.07		
FeO*	3.96				4.74	3.81
MnO	0.11	0.27	0.30	0.18	0.08	0.11
MgO	1.15	0.22	0.51	0.80	0.88	0.27
CaO	3.56	0.82	1.01	1.43	2.23	1.84
Na2O	4.39	6.95	7.49	4.74	4.73	6.43
K2O	5.31	5.18	4.82	5.74	4.84	5.14
P2O5	0.32	0.10	0.18	0.19	0.45	0.15
H2O+		2.06	0.58			
H2O-		0.46	0.14			
CO2			0.06			
Total	100	96.78	100.30	98.73	99.45	99.82
SiO2'	63.81	63.81	63.82	63.84	63.95	63.96
(Na2O+K2O)'	9.70	12.87	12.22	10.61	9.63	11.57
Sc	11.6	0.8	18.1			4
V	115	79	57			8
Cr	38.9					
Ni	15.6					8
Cu		46	12			1
Zn	97	378	152			95
Ga						27
Rb	132	333	82		158	95
Sr	396	44	21		408	330
Y	41.2	154	65		49	47
Zr	650	1800	657		829	635
Nb	45.2	489*	110		60	84.6
Cs	2.96	10	2			
Ba	1476	74	1019		984	1789
La	77.6		91.6			75
Ce	154		163.8			144
Pr						
Nd	66.8		70.1		62.1	
Sm	11.6		10.8		11.7	
Eu	2.54		2.88			
Gd			9.59			
Tb	1.97					
Dy			9.48			
Ho						
Er			5.71			
Tm						
Yb	4.29		5.19			
Lu	0.6		0.93			

Hf	16.5	48	14			
Ta	4.83	32	6.2			
Pb			14		18.2	12
Th	12	61	10		25	10
U	4.65	2.6	2.5		5.08	
Li		74	20			
F			240			
Rb/Sr	0.33	7.57	3.9		0.39	0.29
Cen/Ybn	9.7		8.53			
Eu*	0.64		0.34			
Zr/Hf	39.4	37.5	46.9			
Ba/Rb	11.2	0.22	12.4		6.23	18.8
Rb/Th	11	5.46	8.2		6.32	9.5
87Sr/86Sr,I					0.70452	
143Nd/144Nd			0.512676		0.51261	
206Pb/204Pb			18.201		17.707	
207Pb/204Pb			15.546		15.456	
208Pb/204Pb			38.386		37.486	

Sample	DM157	MH173	DML-7	CO-4	Alp-6	UP906
Age, Ma			35.6-35.3	33.8		
Long W	104 10.4	103 05	104 02	105 31	103 32	103 12.3
Lat N	30 38.1	29 17	30 40	32 05	30 22	39 51.2
SiO2	62.58	62.49	64.36	63.45	63.10	60.84
TiO2	1.03	0.52	1.05	0.50	0.37	0.13
Al2O3	15.82	14.50	16.06	18.25	16.58	16.83
Fe2O3	0.84	1.21	0.94	2.33	2.84	3.26
FeO	3.46	4.98	3.88	0.92	2.05	0.17
FeO*						
MnO	0.11	0.18	0.07	0.14	0.19	0.33
MgO	2.05	0.66	0.63	0.07	0.17	0.18
CaO	1.55	2.17	3.04	1.20	0.80	0.87
Na2O	4.18	4.70	5.02	6.70	7.04	7.23
K2O	5.84	5.81	5.22	5.30	5.21	5.08
P2O5	0.37	0.45	0.30	0.18	0.09	0.03
H2O+				0.72	0.52	1.45
H2O-				0.17	0.30	0.22
CO2				0.65	0.02	0.03
Total	97.83	97.67	100.57	100.58	99.28	96.61
SiO2'	63.97	63.98	64.00	64.07	64.10	64.10
(Na2O+K2O)'	10.24	10.76	10.18	12.12	12.44	12.97
Sc	7.98	16.61				1
V						79
Cr						
Ni						
Cu						27
Zn	95.8	160		86	110	381
Ga						
Rb	133	103		85	104	310
Sr	222	48		161	7	30
Y	26.3	47		24	30	149
Zr	776	855		682	955	1787
Nb	42.9*	40*		153	91*	512
Cs	4.58	1.4				4.9
Ba	1014	563				65
La	89.2					
Ce	172					
Pr						
Nd	71.1					
Sm	13.92					
Eu	2.12					
Gd						
Tb	2.04					
Dy						
Ho						
Er						
Tm						
Yb	5.82					
Lu	0.84					

Hf	20.5	18.96				45
Ta	7.76	3.66				33
Pb						
Th		11.05				70
U	13.54	5.93				4.3
Li						106
F						
Rb/Sr	0.6	2.15		0.53	14.9	10.3
Cen/Ybn	7.99					
Eu*	0.46					
Zr/Hf	37.9	45.1				39.7
Ba/Rb	7.62	5.47				0.21
Rb/Th		9.32				4.43
87Sr/86Sr,I						
143Nd/144Nd						
206Pb/204Pb						
207Pb/204Pb						
208Pb/204Pb						

Sample	H92-76	J82-95	BM902	ST15	MH11	GSL-59
Age, Ma	33.3					
Long W	103 57.5	103 05	103 26.6	104 13	103 05	103 16.7
Lat N	29 24	29 17	29 53.7	30 38	29 17	29 19.3
SiO2	64.14	63.68	62.42	63.79	65.66	63.18
TiO2	0.81	0.62	0.12	0.91	0.54	0.50
Al2O3	17.15	15.36	16.66	17.49	16.08	15.79
Fe2O3		2.51	4.09	0.44	1.27	1.15
FeO		4.20	0.81	2.20	5.23	4.75
FeO*	3.55					
MnO	0.16	0.20	0.25	0.14	0.20	0.16
MgO	0.91	0.20	0.14	0.75		1.07
CaO	2.10	2.25	0.80	1.27	2.41	1.92
Na2O	6.44	4.65	6.99	6.28	4.61	4.27
K2O	4.43	5.59	5.18	5.85	6.06	5.31
P2O5	0.29		0.05	0.19	0.21	0.15
H2O+		0.17	0.72	0.39		
H2O-			0.13	0.19		
CO2			0.22			
Total	99.64	99.43	98.36	99.39	102.27	98.25
SiO2'	64.14	64.15	64.16	64.18	64.20	64.31
(Na2O+K2O)'	10.87	10.32	12.51	12.20	10.43	9.75
Sc	5		3.2	4.9		9.9
V	12		42			
Cr	4			4		
Ni	5			5.8		
Cu	2		11			
Zn	72		214	104		
Ga	17					
Rb	87	96	199	131		104
Sr	546	43	25			240
Y	41	33	69			61
Zr	530	625	1134	676		488
Nb	58.6	35*	272	35.1*		38*
Cs			2	1.65		0.39
Ba	2078		87	460		1742
La	68			90.3		62
Ce	159			179.2		136
Pr						
Nd				60		56.4
Sm				11.7		10.8
Eu				2.07		2.77
Gd						
Tb				1.34		2.2
Dy						
Ho						
Er						
Tm				1.74		
Yb				5.45		4.36
Lu				0.8		0.6

Hf			28	18.1		14.06
Ta			18	5.7		3.95
Pb	8					
Th	7		34	17.9		10.59
U			8.3	6.43		4.09
Li			46			
F						
Rb/Sr	0.16	2.25	7.96			0.43
Cen/Ybn				8.89		8.43
Eu*				0.56		0.71
Zr/Hf			40.5	37.3		34.7
Ba/Rb	23.9		0.44	3.51		16.8
Rb/Th	12.4		5.85	7.32		9.82
87Sr/86Sr,I						
143Nd/144Nd						
206Pb/204Pb						
207Pb/204Pb						
208Pb/204Pb						

Sample	Rb-1	GSL-70	CF842	W96-27	Bof-1	TPC-305
Age, Ma	36.3		31.8	27.3-27.0		
Long W		103 16.5	103 28.6	104 01.8	103 59	103 16
Lat N		29 19.6	29 15.9	29 27	29 28.3	29 16
SiO2	63.60	62.25	63.93	63.96	64.20	63.05
TiO2	0.59	0.64	1.40	0.66	0.30	0.33
Al2O3	16.88	15.60	15.27	16.46	16.45	15.55
Fe2O3	4.33	1.20	0.97		5.17	4.71
FeO	0.16	4.94	4.01		0.88	1.54
FeO*				4.67		
MnO	0.16	0.16	0.08	0.12	0.18	0.11
MgO	0.33	0.15	0.86	0.52	0.12	0.10
CaO	1.17	2.05	4.02	1.98	0.70	1.49
Na2O	5.86	4.25	4.14	5.05	6.40	4.71
K2O	5.62	5.32	4.16	5.75	5.28	6.31
P2O5	0.15	0.18	0.51	0.20	0.05	0.04
H2O+	0.23				0.41	1.09
H2O-	0.11				0.37	0.70
CO2	0.03				0.24	0.01
Total	99.22	96.74	99.35	99.39	100.75	99.74
SiO2'	64.34	64.35	64.35	64.36	64.37	64.38
(Na2O+K2O)'	11.61	9.89	8.35	10.86	11.71	11.25
Sc		12.4	11.69			
V			119			
Cr		2.39	4.24			
Ni		12	15.78			
Cu						
Zn	82	131	92			131
Ga						
Rb	77	103	114.46	90		125
Sr	71	155	474	126		19
Y	39	61	41	54		68
Zr	622	500	397	801		794
Nb	75	30*	24.43*	75		84
Cs		1.83	11.06			
Ba		2848	1051			
La		95	52.46			
Ce		116	106.05			
Pr						
Nd		51.1	49.61			
Sm		10.3	9.86			
Eu		3.95	2.27			
Gd						
Tb		1.62	1.39			
Dy						
Ho						
Er						
Tm						
Yb		4.22	3.47			
Lu		0.6	0.48			

Hf		9.95	9.63			
Ta		3.23	2.28			
Pb						
Th		9.63	12.34			
U		4.14	5.39			
Li						
F						
Rb/Sr	1.08	0.66	0.24	0.71		6.58
Cen/Ybn		7.43	8.26			
Eu*		1.14	0.7			
Zr/Hf		50.3	41.2			
Ba/Rb		27.7	9.18			
Rb/Th		10.7	9.28			
87Sr/86Sr,I						
143Nd/144Nd						
206Pb/204Pb						
207Pb/204Pb						
208Pb/204Pb						

Sample	I18-5	GSL-29	Hut-2	DM151	81020	YM-901
Age, Ma				35.6-35.3	36.6	
Long W		103 16.3	106 03	104 0.9	104 04.6	103 20.5
Lat N		29 20.5	31 55	30 41.9	30 52.3	29 46.2
SiO2	63.68	63.46	64.60	62.71	64.50	62.71
TiO2	1.09	0.37	0.64	1.16	0.90	0.17
Al2O3	15.98	15.02	17.80	16.26	17.08	16.57
Fe2O3	4.11	1.24	1.77	0.86		1.68
FeO	0.83	5.10	1.27	3.55		2.54
FeO*					4.29	
MnO	0.17	0.17	0.14	0.12	0.08	0.21
MgO	0.95	0.53	0.46	0.24	0.70	0.16
CaO	2.38	2.70	0.93	1.60	1.99	0.87
Na2O	4.35	4.10	6.62	5.49	5.31	7.01
K2O	5.00	5.62	5.74	4.88	4.79	5.27
P2O5	0.34	0.15	0.24	0.35	0.34	0.03
H2O+	0.88		0.33			0.42
H2O-			0.14			0.10
CO2						0.03
Total	99.76	98.46	100.68	97.22	99.98	97.73
SiO2'	64.40	64.45	64.46	64.50	64.51	64.53
(Na2O+K2O)'	9.46	9.87	12.33	10.67	10.10	12.64
Sc		6.8		9.12		1.7
V						47
Cr		2.02				
Ni		5				
Cu						29
Zn		148				188
Ga						
Rb		151		136	95	190
Sr	333	101			316	8
Y		36			48	76
Zr	526	700		643	621	1242
Nb		35*			45*	225
Cs		2.4		0.6		1.9
Ba	1070	378		1345	1294	26
La		79		103		154
Ce		163		189		287
Pr						
Nd		64.1		84	55.6	104
Sm		12.3		17.26	11	15
Eu		1.52		2.84		1.2
Gd						
Tb		2.13		2.94		2.1
Dy						
Ho						
Er						
Tm						
Yb		5.79		6.8		7.9
Lu		0.79		0.96		1.2

Hf		18.17		17.69		28
Ta		4.81		6.48		13
Pb					16.6	9
Th		15.02		20.16	17.4	26
U		6.7		6.26	3.59	4
Li						45
F						1000
Rb/Sr		1.5			0.3	23.8
Cen/Ybn		7.61		7.51		9.82
Eu*		0.36		0.48		0.24
Zr/Hf		38.5		36.3		44.4
Ba/Rb		2.5		9.89	13.6	0.14
Rb/Th		10.1		6.75	5.46	7.31
87Sr/86Sr,I					0.70547	
143Nd/144Nd					0.512645	0.512551
206Pb/204Pb					17.889	
207Pb/204Pb					15.477	
208Pb/204Pb					37.63	

Sample	H92-32	MMM52	81-113	GSL-04	U94-R121	Tr5-9
Age, Ma	27.3-27.0	34.3	37		27.3-27.0	27.1
Long W	103 57.7	103 30.5	104 52.5	103 15.4	103 58.2	103 58.3
Lat N	29 27.8	29 19	30 51	29 20.4	29 28.5	29 21.6
SiO2	64.55	64.61	64.21	63.21	64.63	64.84
TiO2	0.63	0.56	0.85	0.61	0.73	0.86
Al2O3	17.58	15.88	17.22	15.38	17.42	16.41
Fe2O3			4.00	1.18		
FeO			0.17	4.85		
FeO*	3.70	5.84			4.14	4.12
MnO	0.07		0.03	0.15	0.05	0.10
MgO	0.22	0.48	0.45	0.51	0.70	1.18
CaO	1.58	1.72	2.24	3.14	1.65	2.19
Na2O	6.11	5.10	5.12	3.36	5.10	4.91
K2O	5.42	5.68	4.70	5.14	5.13	5.16
P2O5	0.15	0.14	0.34	0.17	0.23	0.23
H2O+			0.50			
H2O-						
CO2			0.07			
Total	99.71	100	99.90	97.70	99.78	100.00
SiO2'	64.55	64.61	64.64	64.70	64.78	64.84
(Na2O+K2O)'	11.53	10.78	9.89	8.70	10.25	10.07
Sc	5	1		10.7	8.27	10.8
V	13	4.7	14			
Cr		1.8	25			
Ni	3	0.7	3	13		17.8
Cu	2		2			
Zn	102		133		102	
Ga	26					
Rb	96	110	131	102	98	122
Sr	278	38	458	150	332	226
Y	42	52.7	48	49	38	67.1
Zr	658	694	441	454	667	645
Nb	84.6	85.4	52	34*	69	38.5*
Cs				1.39	0.96	1.29
Ba	1737	427	1550	2178		1613
La	57	72.4		56	70.4	81.6
Ce	168	140.3		128	125	150
Pr						
Nd		57.71		49.2	50.9	67.6
Sm		11.45		9.6	10.1	12.1
Eu		2.066		3.22	2.79	0.26
Gd		9.165				
Tb				1.96	1.2	1.9
Dy		8.616				
Ho						
Er		4.605				
Tm						
Yb		4.357		3.96	4.17	4.54
Lu				0.54	0.68	0.62

Hf				12.77	15.7	16.2
Ta				3.79	4.37	8.03
Pb	12					
Th	12			9.21	9.28	12.4
U				3.13		4.57
Li						
F			750			
Rb/Sr	0.35	2.89	0.29	0.68	0.30	0.54
Cen/Ybn		8.7		8.74	8.1	9.93
Eu*		0.59		0.93	0.88	0.06
Zr/Hf				35.6	42.5	39.8
Ba/Rb	18.1	3.88	11.8	21.4		13.2
Rb/Th	8			11.1	10.6	9.84
87Sr/86Sr,I						
143Nd/144Nd						
206Pb/204Pb						
207Pb/204Pb						
208Pb/204Pb						

Sample	H89-189	Tr-11	GSL-68	Tr-67	GSL-01	H89-94
Age, Ma	36	27.1		27.3-27.0		36.8
Long W	104 16	103 58.3	103 16.3	104 02.1	103 15.6	104 22
Lat N	29 59	29 21.9	29 19.6	29 26.2	29 20.3	29 59
SiO2	64.86	64.89	63.60	64.92	62.33	64.89
TiO2	0.77	0.96	0.45	0.57	0.63	0.78
Al2O3	16.77	16.52	15.11	16.51	15.27	16.99
Fe2O3	2.26		1.15		1.11	2.19
FeO	1.85		4.73		4.56	1.70
FeO*		3.91		3.47		
MnO	0.12	0.12	0.19	0.13	0.19	0.10
MgO	0.75	0.93	0.20	0.95	0.16	1.01
CaO	1.96	2.61	1.90	2.79	2.19	2.05
Na2O	5.04	4.44	4.85	4.96	4.21	5.32
K2O	5.41	5.31	5.66	5.44	5.22	4.76
P2O5	0.19	0.31	0.16	0.26	0.13	0.21
H2O+						
H2O-						
CO2						
Total	100	100	98.00	100.00	96.00	100
SiO2'	64.86	64.89	64.90	64.92	64.93	64.94
(Na2O+K2O)'	10.45	9.75	10.72	10.40	9.82	10.08
Sc		11.9	9.6	6.55	12.6	
V				70		
Cr			1.92	3.62	1.62	
Ni		12.21	4	22.8	16	
Cu						
Zn			137	111	136	
Ga						
Rb		135	121	100	98	
Sr		238	70	255	148	
Y		68.3	34	55	56	
Zr		625	590		552	
Nb		39.1*	26*	77	36*	
Cs		2.17	2.65	1.2	1.7	
Ba		1473	628	1261	2725	
La		78.9	68	90	100	
Ce		152	140	137	123	
Pr						
Nd		67.2	63.3	70	52.7	
Sm		11.9	11.3	9.86	10.6	
Eu		2.53	1.89	2.14	3.72	
Gd						
Tb		2.03	1.9	2.15	1.61	
Dy						
Ho						
Er						
Tm						
Yb		4.17	5.21	5.13	4.71	
Lu		0.61	0.7	0.67	0.63	

Hf		16.7	14.43	16.7	11.99	
Ta			4.04	4.94	3.51	
Pb						
Th		12.5	12.56	11.2	10.68	
U		4.98	5.55	2.57	5.4	
Li						
F						
Rb/Sr		0.57	1.73	0.39	0.66	
Cen/Ybn		9.85	7.26	7.22	7.06	
Eu*		0.62	0.49	0.59	1.06	
Zr/Hf		37.4	40.4		46	
Ba/Rb		10.9	5.19	12.6	27.8	
Rb/Th		10.8	9.63	8.93	9.18	
87Sr/86Sr,I						
143Nd/144Nd						
206Pb/204Pb						
207Pb/204Pb						
208Pb/204Pb						

Sample	GSL-09	MH172	GSL-79	GSL-84	Tr-12	GSL-90
Age, Ma					27.1	
Long W	103 15.7	103 05	103 16.7	103 15.9	103 58.6	103 16.6
Lat N	29 20.4	29 17	29 20.2	29 20.2	29 21.6	29 20.1
SiO2	63.04	65.16	64.47	63.23	65.03	63.22
TiO2	0.60	0.48	0.62	0.57	0.82	0.62
Al2O3	15.35	15.36	15.71	15.42	16.74	15.49
Fe2O3	1.10	1.19	1.11	1.15		1.13
FeO	4.53	4.90	4.56	4.73		4.68
FeO*					3.74	
MnO	0.19	0.18	0.18	0.16	0.10	0.15
MgO	0.16	0.14	0.58	0.24	1.19	0.24
CaO	2.25	1.96	2.08	2.17	2.17	2.03
Na2O	4.03	5.40	4.60	4.33	4.68	4.15
K2O	5.63	5.40	5.16	5.12	5.25	5.33
P2O5	0.17	0.13	0.13	0.13	0.28	0.14
H2O+						
H2O-						
CO2						
Total	97.05	100.30	99.20	97.25	100	97.18
SiO2'	64.96	64.97	64.99	65.02	65.03	65.05
(Na2O+K2O)'	9.95	10.77	9.84	9.72	9.93	9.76
Sc	11		12.8	8.9	8.9	13.5
V						
Cr	1.83		1.67		31.2	2.63
Ni	11		16			
Cu						
Zn	126		141			
Ga						
Rb	106		105	106	138	97
Sr	159		129	172	244	182
Y	72		53	53	65	55
Zr	538		591	456	614	467
Nb	39*		37*	32*	41.3*	32*
Cs	1.13		1.89	1.23	2.2	1.51
Ba	2095		2440	2340	1537	2457
La	105		106	60	80	56
Ce	126		128	160	147	137
Pr						
Nd	54.8		59.2	55	67.8	52.6
Sm	10.8		12	10.3	12.2	9.8
Eu	3.44		3.72	3.48	2.72	3.6
Gd						
Tb	1.62		1.78	2.18	1.87	2.06
Dy						
Ho						
Er						
Tm						
Yb	4.65		4.98	4.13	4.34	4.04
Lu	0.67		0.68	0.57	0.62	0.57

Hf	12.44		12.22	12.97	15.3	13.19
Ta	3.54		3.76	3.87	7.93	3.99
Pb						
Th	11.63		11.35	9.7	12.5	8.68
U	5.09		4.97	3.88	4.64	3.36
Li						
F						
Rb/Sr	0.67		0.81	0.62	0.57	0.53
Cen/Ybn	7.33		6.95	10.5	9.16	9.17
Eu*	0.96		0.94	0.93	0.67	1.01
Zr/Hf	43.2		48.4	35.2	40.1	35.4
Ba/Rb	19.8		23.2	22.1	11.1	25.3
Rb/Th	9.11		9.25	10.9	11	11.2
87Sr/86Sr,I						
143Nd/144Nd						
206Pb/204Pb						
207Pb/204Pb						
208Pb/204Pb						

Sample	DM125	J81-201	H89-155	H89-127	MH102	J81-213
Age, Ma		32		36		
Long W	104 14.5		104 01.3	104 16	103 05	104 54
Lat N	30 41.1		30 33.9	29 59	29 17	31 26
SiO2	65.39	65.13	65.15	65.20	63.29	64.41
TiO2	1.00	0.85	0.88	0.80	0.53	0.55
Al2O3	15.00	16.43	16.69	16.69	14.74	16.76
Fe2O3	0.69	2.59	2.80	2.44	1.10	3.89
FeO	2.86	0.86	0.85	1.76	4.53	0.22
FeO*						
MnO	0.15	0.13	0.10	0.14	0.10	0.06
MgO	1.85	0.74	0.58	0.68	0.21	0.12
CaO	2.25	2.05	1.79	1.89	2.21	0.56
Na2O	5.73	5.22	5.81	4.80	4.43	5.38
K2O	5.16	5.70	5.18	5.35	5.72	6.73
P2O5	0.33	0.29	0.17	0.22	0.20	0.04
H2O+			0.40			0.59
H2O-						
CO2						0.25
Total	100.41	100	98.19	100	97.06	99.56
SiO2'	65.12	65.13	65.15	65.20	65.21	65.25
(Na2O+K2O)'	10.85	10.92	10.99	10.15	10.46	12.27
Sc	8.44				16.2	
V						4
Cr	1.88				2.11	
Ni						4
Cu						8
Zn	4.53				153	97
Ga						
Rb	146				107	207
Sr	330		280		58	59
Y	69.2				52	65
Zr	732				702	1400
Nb	78.2				31*	95
Cs	3.45				2.77	
Ba	1387		710		654	140
La	96					
Ce	205					
Pr						
Nd	71.7					
Sm	12.41					
Eu	3.04					
Gd						
Tb	2.3					
Dy						
Ho						
Er						
Tm						
Yb	5.6					
Lu	0.82					

Hf	18.25				18.04	
Ta	30.53*				3.69	
Pb						
Th	23.14				11.24	34
U	12.47				5.83	
Li						
F						120
Rb/Sr	0.44				1.84	3.51
Cen/Ybn	9.9					
Eu*	0.7					
Zr/Hf	40.1				38.9	
Ba/Rb	9.5				6.11	0.68
Rb/Th	6.31				9.52	6.09
87Sr/86Sr,I						
143Nd/144Nd						
206Pb/204Pb						
207Pb/204Pb						
208Pb/204Pb						

Sample	DM126	ST-122	81045	H91-225	Cob-1	ST-135
Age, Ma			36	27.3-27.0		
Long W	104 14.5	104 13	103 50	104 04.5	103 19	104 13
Lat N	30 41.1	30 42.5	30 28	29 29.3	29 44	30 38
SiO2	64.34	65.50	64.86	65.42	64.46	65.42
TiO2	0.75	0.76	0.24	0.61	0.12	0.76
Al2O3	16.33	16.75	15.24	16.31	16.62	16.75
Fe2O3	0.61	1.96	3.43		1.76	0.44
FeO	2.50	0.84	2.76		2.07	2.20
FeO*				4.50		
MnO	0.18	0.09	0.20	0.07	0.15	0.10
MgO	0.35	0.61	0.06	0.49	0.13	0.53
CaO	1.17	0.95	0.70	1.69	0.98	0.58
Na2O	6.14	5.92	6.63	5.17	7.20	6.14
K2O	5.93	5.49	5.09	5.60	4.97	5.80
P2O5	0.26	0.33	0.05	0.14	0.04	0.13
H2O+		0.63	0.38		0.42	0.64
H2O-		0.48	0.22			0.45
CO2					0.43	
Total	98.56	100.31	99.86	99.11	99.35	99.94
SiO2'	65.28	65.30	65.34	65.42	65.44	65.46
(Na2O+K2O)'	12.25	11.37	11.81	10.77	12.36	11.95
Sc	7.04	5.7		11		4.9
V				24		
Cr	1.09	1.6				1.2
Ni		12		6	4	5.5
Cu				2		
Zn	144	92	136	142	104	107
Ga				25		
Rb	163	94	178	113	197	161
Sr	61.1		8	139	24	
Y	70.4			57	62	
Zr	603	519	1698	718	1224	875
Nb	64.3	26.3*	192	87.8	200	44.5*
Cs	2.31	0.7				1.67
Ba	110	1040	75	1099		180
La	96.6	86.7		79		84.9
Ce	181	181.1		176		215.7
Pr						
Nd	78.8	69				53
Sm	12.14	11.8				10.9
Eu	2.84	2.59				1.54
Gd						
Tb	1.82	1.33				1.44
Dy						
Ho						
Er						
Tm		1.36				2.04
Yb	5.62	4.55				6.76
Lu	0.79	0.6				0.9

Hf	15.69	13.2				24.3
Ta	5.81	4.1				7.3
Pb				15		
Th	13.05	11.5		11		25.2
U	3.39	4.01				7.98
Li						
F						
Rb/Sr	2.67		22.3	0.81	8.21	
Cen/Ybn	8.71	10.76				8.63
Eu*	0.71	0.7				0.44
Zr/Hf	38.4	39.3				36
Ba/Rb	0.67	11.1		9.73		1.12
Rb/Th	12.5	8.17		10.3		6.39
87Sr/86Sr,I						
143Nd/144Nd						
206Pb/204Pb						
207Pb/204Pb						
208Pb/204Pb						

Sample	DM154	Tr-75	H91-37	Altuda	H81-80	SB1-e
Age, Ma	35.6-35.3	27.3-27.0	35.29		36	
Long W	104 05.6	104 0.2	103 48.2	103 31		103 30
Lat N	30 40.5	29 28.9	29 26.8	30 24		29 19
SiO2	64.10	65.53	65.53	64.60	65.65	65.73
TiO2	0.83	0.63	0.61	0.13	0.74	0.46
Al2O3	16.29	16.57	18.00	16.35	17.21	16.61
Fe2O3	0.80			2.89	2.73	
FeO	3.32			1.80	0.18	
FeO*		3.54	2.00			6.00
MnO	0.07	0.11	0.05	0.26	0.06	
MgO	0.32	0.49	0.01	0.06	0.38	0.46
CaO	2.10	1.39	0.70	0.46	2.06	0.56
Na2O	4.43	6.27	7.25	7.51	4.67	4.32
K2O	5.21	5.32	5.75	4.48	6.14	5.76
P2O5	0.40	0.15	0.11	0.02	0.17	0.10
H2O+				0.46		
H2O-				0.34		
CO2				0.02		
Total	97.87	100	99.24	99.38	100	100
SiO2'	65.50	65.53	65.53	65.54	65.65	65.73
(Na2O+K2O)'	9.85	11.59	13.00	12.16	10.81	10.08
Sc	5.74	1.73	2			0.8
V		59	12			5.1
Cr		1.9				4.4
Ni		13.3	9			1.2
Cu			2			
Zn		110	50			
Ga			23			
Rb	94.4	102	120			107
Sr	366	342	103			79.4
Y	19.06	57	41			45.7
Zr	713	789	739			516
Nb	50.6*	95	84.1			77.1
Cs	2.22	1.24				
Ba	1193	1360	385			572
La	83	100	98			69.2
Ce	162	153	191			129
Pr						
Nd	60.7	72				55.8
Sm	12.85	10.4				
Eu	2.41	2.5				
Gd						
Tb	2.08	3.3				
Dy						
Ho						
Er						
Tm						
Yb	5.52	4.89				
Lu	0.78	0.66				

Hf	18.97	16.9				
Ta	4.71	3.84				
Pb			14			
Th	23.58	12	18			
U	7.19	2.89				
Li						
F						
Rb/Sr	0.26	0.30	1.17			1.35
Cen/Ybn	7.93	8.46				
Eu*	0.56	0.57				
Zr/Hf	37.6	46.7				
Ba/Rb	12.6	13.3	3.21			5.35
Rb/Th	4	8.5	6.67			
87Sr/86Sr,I						
143Nd/144Nd						
206Pb/204Pb	17.86					
207Pb/204Pb	15.49					
208Pb/204Pb	37.78					

Sample	MH604	H89-96	QM27	DM146	DM140	16M-5
Age, Ma		36	35	36.8		
Long W	103 05	104 22.5	105 30	103 56.4	103 59.7	105 34
Lat N	29 17	30 01	31 08	30 48.7	30 50.8	31 55
SiO2	65.07	65.75	65.75	64.53	64.81	63.60
TiO2	0.53	0.86	0.73	0.73	0.81	0.39
Al2O3	14.99	15.79	17.55	14.99	15.63	16.50
Fe2O3	1.17	2.36	2.06	0.98	0.91	2.37
FeO	4.82	2.01	1.86	4.05	3.74	0.15
FeO*						
MnO	0.17	0.10	0.03	0.15	0.07	0.19
MgO	0.16	1.08	0.82	0.59	1.12	0.20
CaO	2.25	2.68	1.50	1.72	2.37	1.95
Na2O	4.23	4.27	5.25	4.11	3.81	7.22
K2O	5.43	4.86	4.26	6.00	4.91	4.01
P2O5	0.16	0.25	0.20	0.28	0.37	0.07
H2O+						1.33
H2O-						0.25
CO2						1.48
Total	98.98	100	100	98.13	98.55	99.71
SiO2'	65.74	65.75	65.75	65.76	65.76	65.80
(Na2O+K2O)'	9.76	9.13	9.51	10.30	8.85	11.62
Sc	17.32		2.2	14.89	10.42	
V			22			
Cr	2.08		6.6	1.32		
Ni			1			
Cu			16			
Zn	141		28			
Ga						
Rb	95		153	72.3	95.7	
Sr	41		331	79.7	293	
Y	53		37			
Zr	624		539	357	629	
Nb	36		41	22.9*	37.9	
Cs	2.15		2.42	1.11	1.18	
Ba	698		1062	991	1521	
La			26.6	50.2	77	
Ce			48.1	97.5	137	
Pr						
Nd			23.3	47	58.1	
Sm			3	9.71	11.82	
Eu			1.25	3.69	3.33	
Gd						
Tb			0.31	1.95	2.31	
Dy						
Ho						
Er						
Tm						
Yb			6.8	4.66	6.23	
Lu			0.25	0.67	0.86	

Hf	14.64		16.7	8.39	15.26	
Ta	3.38		0.8*	2.57	4.51	
Pb						
Th	10.64		7.3	5.96	9.95	
U	4.01		1.69	1.37	4.04	
Li			8			
F			370			
Rb/Sr	2.32		0.46	0.91	0.33	
Cen/Ybn			1.91	5.66	5.94	
Eu*			1.35	1.06	0.79	
Zr/Hf	42.6		32.3	42.6	41.2	
Ba/Rb	7.35		6.94	13.7	15.9	
Rb/Th	8.93		21	12.1	9.62	
87Sr/86Sr,I						
143Nd/144Nd						
206Pb/204Pb				17.96		
207Pb/204Pb				15.47		
208Pb/204Pb				37.97		

Sample	83312	U94-R107	MGE800	MGE770	DML-9
Age, Ma	36.8	27.3-27.0	36	36	
Long W	103 53.0	104 03	104 25.1	104 24	104 15
Lat N	30 47.3	29 30	30 03	30 01	30 38
SiO2	65.80	66.85	65.20	65.83	67.12
TiO2	0.83	0.52	0.90	0.79	0.65
Al2O3	15.70	16.03	16.04	16.87	14.47
Fe2O3	1.95		4.42	2.00	1.20
FeO	2.81			0.90	4.95
FeO*		4.54			
MnO	0.20	0.17	0.12	0.09	0.19
MgO	0.24	0.57	0.49	0.61	2.02
CaO	1.52	0.33	2.19	1.26	0.53
Na2O	6.65	6.64	4.71	5.28	4.40
K2O	4.08	5.78	4.68	6.18	6.03
P2O5	0.21	0.13	0.31	0.20	0.15
H2O+			0.29		
H2O-					
CO2					
Total	99.95	101.56	99.35	100	101.71
SiO2'	65.80	65.82	65.82	65.83	65.99
(Na2O+K2O)'	10.73	12.23	9.48	11.46	10.25
Sc		6.27			
V					
Cr					
Ni					
Cu					
Zn		138			
Ga					
Rb		121	126		
Sr		18	390		
Y		54	39		
Zr		781	455		
Nb		122	47		
Cs					
Ba			1180		
La		99			
Ce		195			
Pr					
Nd		84.7			
Sm		14.2			
Eu		1.56			
Gd					
Tb		1.75			
Dy					
Ho					
Er					
Tm					
Yb		5.29			
Lu		0.826			

Hf		19.8			
Ta		6.36			
Pb					
Th		12.5			
U					
Li					
F					
Rb/Sr		6.72	0.32		
Cen/Ybn		9.97			
Eu*		0.35			
Zr/Hf		39.4			
Ba/Rb			3.03		
Rb/Th		9.68			
87Sr/86Sr,I					
143Nd/144Nd					
206Pb/204Pb					
207Pb/204Pb					
208Pb/204Pb					