

Sample	TPC376	DM134	PP112	H89-47	H89-153A	Chin209
Age, Ma	33	35.9	36.3	35.3	35.3	32.8
Long W	103 15	103 54.6	103 46	103 59.2	104 00.9	104 28
Lat N	29 16	30 36.1	30 20	30 40.3	30 34.2	29 58
SiO2	70.23	70.70	70.50	71.03	71.06	70.88
TiO2	0.30	0.40	0.19	0.48	0.44	0.60
Al2O3	12.42	13.74	14.13	14.46	13.61	14.74
Fe2O3	3.29	0.76	1.99	2.09		2.30
FeO	1.97	3.13	1.40	0.93		0.35
FeO*					3.33	
MnO	0.08	0.11	0.08	0.10	0.13	0.05
MgO	0.01	0.25	0.03	0.30	0.09	0.24
CaO	0.48	0.60	0.43	0.64	0.46	0.55
Na2O	5.36	4.68	5.85	4.19	5.29	4.26
K2O	4.65	5.08	4.70	5.75	5.55	5.57
P2O5	0.11	0.11	0.04	0.02	0.04	0.18
H2O+	0.01		0.34	2.69	0.60	0.54
H2O-	0.25		0.18			0.26
CO2	0.05		0.03			0.02
Total	99.21	99.56	99.80	97.50	99.76	100.54
SiO2'	71.01	71.01	71.03	71.03	71.06	71.08
(Na2O+K2O)'	10.12	9.80	10.63	9.94	10.84	9.86
Sc		4.36				
V						
Cr		1.86				
Ni	13				13	
Cu					2	
Zn	198	163	126		138	
Ga					28	
Rb	397	208	243		302	
Sr	12	58		35	8	
Y	132	128	176		115	
Zr	1777	948	1280		1055	
Nb	195	109	88		154	
Cs		2.15				
Ba		179		150	6	
La		155			155	
Ce		273			318	
Pr						
Nd		111				
Sm		19.36				
Eu		0.41				
Gd						
Tb		4.36				
Dy						
Ho						
Er						
Tm						
Yb		13.43				
Lu		1.79				

Hf		28.05			
Ta		10.61			24
Pb					48
Th		25.67			
U		9.51			
Li					
F					
Rb/Sr	33.1	3.59			37.8
Cen/Ybn		5.5			
Eu*		0.06			
Zr/Hf		33.8			
Ba/Rb		0.86			0.02
Rb/Th		8.1			6.29
$^{87}\text{Sr}/^{86}\text{Sr}_i$					
$^{143}\text{Nd}/^{144}\text{Nd}$					
$^{206}\text{Pb}/^{204}\text{Pb}$					
$^{207}\text{Pb}/^{204}\text{Pb}$					
$^{208}\text{Pb}/^{204}\text{Pb}$					

Sample	84326	J87-72	MH23	MP4A	J87-65	87602
Age, Ma	35.9				35.6	35.6
Long W		105 28	103 05	103 47	103 55.5	103 55
Lat N		31 17	29 17	30 27	30 35.9	30 35
SiO2	70.00	70.10	69.21	71.00	71.16	70.60
TiO2	0.32	0.03	0.22	0.25	0.55	0.53
Al2O3	14.10	13.62	13.99	13.40	14.03	14.20
Fe2O3			0.80			
FeO			3.30			
FeO*	3.25	3.43		4.30	3.25	3.05
MnO	0.08	0.09	0.05	0.29	0.11	0.07
MgO	0.26	0.22	0.13	0.29	0.10	0.24
CaO	0.31	1.32	1.13	0.18	0.55	0.57
Na2O	4.73	5.51	3.36	5.27	4.16	2.62
K2O	5.36	4.23	5.02	4.67	6.01	7.19
P2O5	0.05		0.07	0.12	0.09	0.15
H2O+		0.82			0.81	
H2O-						
CO2						
Total	98.46	98.55	97.28	97.77	100.08	99.22
SiO2'	71.09	71.13	71.15	71.16	71.16	71.16
(Na2O+K2O)'	10.25	9.88	8.61	9.96	10.17	9.89
Sc			2.72		4	
V					28	
Cr			1.22			
Ni		26			8	
Cu		46			8	
Zn		620	193		91	
Ga					24	
Rb		1900	165	239	207	197
Sr		230	71	4	49	56
Y		310	76		77	59
Zr		1200	843	1447	853	815
Nb		370	74	184	87	96
Cs		86	2.75			
Ba		19	341	37	382	371
La		31			99	
Ce		120			213	
Pr		15				
Nd		41				
Sm		15				
Eu		0.2			0.9	
Gd		17				
Tb		5.5				
Dy		46				
Ho		11				
Er		45				
Tm		9.1				
Yb		72				
Lu		11				

Hf			24.47			
Ta		43	6.86		15	
Pb		290			22	
Th		210	24.83			
U		21	9.7			
Li		470				
F		16300				
Rb/Sr		8.26	2.32	59.8	4.22	3.52
Cen/Ybn		0.45				
Eu*		0.04				
Zr/Hf			34.5			
Ba/Rb		0.01	2.07	0.15	1.85	1.88
Rb/Th		9.05	6.65		9.41	
$^{87}\text{Sr}/^{86}\text{Sr}_i$						
$^{143}\text{Nd}/^{144}\text{Nd}$						
$^{206}\text{Pb}/^{204}\text{Pb}$						
$^{207}\text{Pb}/^{204}\text{Pb}$						
$^{208}\text{Pb}/^{204}\text{Pb}$						

Sample	DM120	Trip1	PP9	J84-11	56	DM101
Age, Ma	35.9		36.3		37.2	
Long W	103 54.9	105 23	103 47	104 54	104 48.3	103 54
Lat N	30 36.1	31 16	30 18	31 26	30 26.9	30 46.4
SiO2	70.39	71.00	70.20	70.70	70.77	70.16
TiO2	0.38	0.22	0.13	0.16	0.70	0.18
Al2O3	13.82	15.62	14.10	14.63	13.90	15.73
Fe2O3	0.73	2.34	2.49	2.16	2.91	0.49
FeO	3.00	0.18	0.59	0.26	0.12	2.04
FeO*						
MnO	0.10	0.05	0.23	0.04		0.04
MgO	0.02	0.19	0.30	0.06	0.11	0.11
CaO	0.60	1.14	0.28	0.45	0.15	0.39
Na2O	4.56	4.55	5.56	5.07	4.23	4.20
K2O	5.20	4.87	4.48	5.66	6.30	5.04
P2O5	0.10	0.07	0.03		0.10	0.04
H2O+		0.40	1.52	0.35	0.88	
H2O-		0.22	0.48		0.22	
CO2		0.30				
Total	98.90	100.55	100.49	99.54	100.39	98.42
SiO2'	71.17	71.26	71.28	71.28	71.28	71.29
(Na2O+K2O)'	9.87	9.45	10.19	10.82	10.61	9.34
Sc	4.45					3.85
V						
Cr	2.31					
Ni				5		
Cu				9		
Zn	163	83		70		
Ga						
Rb	196	226	231	261		232
Sr	59.1	129	20	24		52
Y	148	85	72	88		69
Zr	932	368	1080	380		533
Nb	94.4	66	126	57		88
Cs	2.54					2.56
Ba	175			56		112
La	117					106
Ce	257					233
Pr						
Nd	102					79
Sm	16.79					15.25
Eu	0.64					0.3
Gd						
Tb	3.27					3.4
Dy						
Ho						
Er						
Tm						
Yb	13.3					10.12
Lu	1.85					1.41

Hf	28.9					17.44
Ta	8.58					6.26
Pb						
Th	25.91			50		44.26
U	9.81					7.88
Li						
F				2000		
Rb/Sr	3.32	1.78	11.6	10.9		4.46
Cen/Ybn	5.22					6.22
Eu*	0.11					0.05
Zr/Hf	32.2					30.6
Ba/Rb	0.89			0.21		0.48
Rb/Th	7.56			5.22		5.24
87Sr/86Sr,l						
143Nd/144Nd						
206Pb/204Pb						17.71
207Pb/204Pb						15.49
208Pb/204Pb						37.73

Sample	87509	PP406	81-115	J87-73	Mitre-1	87511
Age, Ma	35.6	36.3	38.4-36.9			35.3
Long W	104 12.8	103 48	104 52.5	105 28	103 47	104 12.7
Lat N	30 31.7	30 18	30 51	31 17	30 27	30 31.8
SiO2	71.80	70.91	70.45	69.34	71.20	71.49
TiO2	0.32	0.13	0.53	0.03	0.16	0.31
Al2O3	14.90	14.03	13.97	13.43	13.37	14.60
Fe2O3		2.67	3.20		2.28	
FeO		0.48	0.08		1.48	
FeO*	2.95			3.58		2.41
MnO	0.06	0.23	0.02	0.10	0.19	0.08
MgO		0.04	0.27	0.17	0.03	0.23
CaO	0.18	0.11	0.92	0.67	0.17	0.29
Na2O	4.97	6.27	3.87	5.74	5.97	4.97
K2O	5.43	4.44	5.26	4.02	4.69	5.55
P2O5	0.05	0.04	0.12		0.07	0.07
H2O+		0.23	0.50	0.59	0.21	
H2O-		0.07			0.13	
CO2			0.17			
Total	100.66	99.65	99.36	97.08	99.95	100
SiO2'	71.33	71.37	71.39	71.43	71.48	71.49
(Na2O+K2O)'	10.33	10.78	9.25	10.05	10.70	10.52
Sc						
V			12			
Cr			14			
Ni			3	29		
Cu			3	49		
Zn			97	590	119	
Ga						
Rb	320	211	167	1800	269	318
Sr	2		114	290		12
Y	91	93	67	280	199	88
Zr	904	1005	508	1100	1482	689
Nb	172	266	57	380	244	159
Cs				93		
Ba	57		845	10		97
La				27		
Ce				110		
Pr				13		
Nd				36		86.9
Sm				13		15.8
Eu				0.2		
Gd				15		
Tb				4.7		
Dy				40		
Ho				9.7		
Er				39		
Tm				8.1		
Yb				64		
Lu				9.7		

Hf					
Ta				47	
Pb				320	19.7
Th				250	56.2
U				51	9.59
Li				470	
F			310	17200	
Rb/Sr	160		1.46	6.21	26.5
Cen/Ybn				0.46	
Eu*				0.04	
Zr/Hf					
Ba/Rb	0.18		5.06	0.006	0.32
Rb/Th				7.2	5.66
87Sr/86Sr,l					0.70464
143Nd/144Nd					0.512621
206Pb/204Pb					17.867
207Pb/204Pb					15.458
208Pb/204Pb					37.542

Sample	RT4-96	J81-222	J87-66	H89-75	BB83-7	PP-77
Age, Ma			35.6	36.8		36.3
Long W	105 28	104 50	103 57.7	103 37.8	103 17.5	103 46
Lat N	31 17	31 28	30 35.6	30 33.7	29 17.5	30 20
SiO2	70.48	70.29	71.57	71.60	72.48	70.10
TiO2	0.02	0.13	0.49	0.71	0.07	0.20
Al2O3	13.43	14.58	13.81	14.59	13.75	13.44
Fe2O3		2.05	1.67	4.72	2.99	3.24
FeO		0.16	1.49			0.59
FeO*	2.97					
MnO	0.08	0.01	0.08	0.05	0.04	0.06
MgO	0.01	0.06	0.35	0.04	0.18	0.05
CaO	0.02	0.86	0.98	0.55	0.80	0.50
Na2O	7.42	6.02	3.22	4.34	3.86	5.25
K2O	4.07	4.36	6.32	5.14	6.88	4.18
P2O5		0.01	0.02	0.15	0.04	0.06
H2O+	0.20	0.44	3.46	0.53		1.16
H2O-						0.44
CO2		0.25				0.02
Total	98.49	98.92	96.02	100.18	101.09	99.29
SiO2'	71.56	71.56	71.57	71.60	71.70	71.77
(Na2O+K2O)'	11.67	10.57	9.54	9.48	10.62	9.65
Sc					0.33	
V	7					
Cr					1.55	
Ni	32	3				
Cu	68	13				
Zn	590	130			158	
Ga				24		
Rb	1700	460		94	287	
Sr	14	36	76	31	59	
Y	200	120	78	58	110	
Zr	1000	930		395	687	
Nb	350	420		32	120	
Cs	62				2.63	
Ba	8	24	179	1024	337	
La	20		102		107	
Ce	73		206		220	
Pr	9.6					
Nd	25		77		99	
Sm	9.5				18.47	
Eu	0.1					
Gd	17		14			
Tb	3.2				3.12	
Dy	29		13			
Ho	6.9					
Er	26		9.6			
Tm	5.3		9.2			
Yb	41		1.4		8.82	
Lu	5.8				1.11	

Hf					19.52	
Ta	40				9.56	
Pb	280					
Th	200	34			28.05	
U	38				7.2	
Li	480					
F	16800	4100				
Rb/Sr	121	12.8		3.03	4.86	
Cen/Ybn	0.48		6.05		6.74	
Eu*	0.02					
Zr/Hf					35.2	
Ba/Rb	0.005	0.05		10.9	1.17	
Rb/Th	8.5	13.5			10.3	
87Sr/86Sr,l						
143Nd/144Nd						
206Pb/204Pb						
207Pb/204Pb						
208Pb/204Pb						

Sample	RT3-130	BB83-23	59-173	RT337-310	DML-8	PP-191
Age, Ma		29	35.6			36.3
Long W	105 28		103 50	105 28	104 10	103 44
Lat N	31 16		30 52	31 16	30 45	33 19
SiO2	70.50	73.58	71.06	70.56	72.51	71.42
TiO2	0.02	0.15	0.38	0.03	0.35	0.26
Al2O3	13.73	11.45	13.22	13.52	12.32	15.03
Fe2O3		5.30	2.69		0.72	1.75
FeO			0.86		2.95	0.13
FeO*	2.91			2.95		
MnO	0.08	0.07	0.04	0.08	0.06	
MgO	0.01	0.41	0.12	0.04	1.84	0.01
CaO	0.03	1.38	0.46	0.06	0.37	0.20
Na2O	6.72	4.85	4.63	6.89	3.84	7.80
K2O	4.20	5.10	5.45	4.04	5.86	5.58
P2O5		0.15	0.06		0.05	0.06
H2O+	0.12		0.24	0.25		0.44
H2O-			0.09			0.06
CO2						0.01
Total	98.20	102.44	99.26	98.17	100.87	99.80
SiO2'	71.79	71.83	71.83	71.88	71.88	71.93
(Na2O+K2O)'	11.12	9.71	10.19	11.13	9.62	13.48
Sc		0.47				
V	6					
Cr		2.56				
Ni	29			42		
Cu	51			89		
Zn	580	311		630		
Ga						
Rb	2000	495		1600		227
Sr	12	55		40		
Y	200	175		240		92
Zr	1100	1419		1200		633
Nb	400	234		420		226
Cs	75			53		
Ba	8	495		6		
La	21	206		25		
Ce	84	330		96		
Pr	10			13		
Nd	28	196		34		
Sm	10	31.18		13		
Eu	0.1	0.42		0.1		
Gd	12			15		
Tb	3.7	5.21		4.6		
Dy	32			37		
Ho	7.6			9.7		
Er	29			37		
Tm	6			7.8		
Yb	44	15.37		58		
Lu	6.3	2.02		8.2		

Hf		42.12			
Ta	39	25.66		42	
Pb	320			300	
Th	200	66.49		220	
U	66	7.19		54	
Li	470			520	
F	16900			19700	
Rb/Sr	167	9		40	
Cen/Ybn	0.52	5.8		0.45	
Eu*	0.03	0.04		0.02	
Zr/Hf		33.7			
Ba/Rb	0.004	1		0.004	
Rb/Th	10	7.44		7.27	
$^{87}\text{Sr}/^{86}\text{Sr}_i$					
$^{143}\text{Nd}/^{144}\text{Nd}$					
$^{206}\text{Pb}/^{204}\text{Pb}$					
$^{207}\text{Pb}/^{204}\text{Pb}$					
$^{208}\text{Pb}/^{204}\text{Pb}$					

Sample	83315	DM130	86010	RS71-40	81-116	DML-12
Age, Ma	36.8		36.5	35.6	38.4-36.9	35.6
Long W	103 47	103 57.6	103 53.7		104 52.5	104 14
Lat N	30 42.8	30 49.6	30 47.4		30 51	30 31
SiO2	71.10	70.71	71.10	71.13	72.14	74.08
TiO2	0.48	0.24	0.42	0.23	0.56	0.30
Al2O3	12.40	13.84	13.00	12.30	13.34	13.84
Fe2O3		0.53		3.35	4.04	0.55
FeO		2.18				2.28
FeO*	4.40		4.07			
MnO	0.08	0.10	0.06	0.08	0.09	0.06
MgO	0.42	0.27	0.12	1.82	0.18	0.14
CaO	0.24	0.60	0.25	0.70	0.74	0.73
Na2O	4.24	4.22	4.34	3.71	3.75	4.86
K2O	5.36	5.44	5.34	5.43	5.12	5.75
P2O5	0.05	0.10	0.04	0.02	0.12	0.05
H2O+					0.22	
H2O-						
CO2						
Total	98.81	98.23	98.74	98.77	100.30	102.64
SiO2'	71.96	71.98	72.01	72.02	72.08	72.17
(Na2O+K2O)'	9.71	9.83	9.80	9.25	8.86	10.34
Sc		3.81		3.96		
V					7	
Cr					1	
Ni					3	
Cu					10	
Zn		90.9		117	97	
Ga						
Rb	171	302	207	258	155	
Sr	16.1	44.4	4	52	119	
Y	98	88.8	101	118	72	
Zr	1082	569	1334	806	521	
Nb	100	83	132	89	60	
Cs		4.43		2.11		
Ba	178	77	70	425	857	
La		107		140		
Ce		225		254		
Pr						
Nd	93.8	96.2		103		
Sm	19.7	20.05		21.96		
Eu		0.25		0.45		
Gd						
Tb		3.47		4.07		
Dy						
Ho						
Er						
Tm						
Yb		11.49		12.99		
Lu		1.54		1.66		

Hf		19.27		26.45	
Ta		7.38		14.46	
Pb	20.6				
Th	19.7	44.63		25.98	
U	2.82	7.91		3.91	
Li					
F					380
Rb/Sr	10.6	6.8	51.8	4.96	1.3
Cen/Ybn		5.29		5.29	
Eu*		0.04		0.06	
Zr/Hf		29.5		30.5	
Ba/Rb	1.04	0.25	0.34	1.65	5.53
Rb/Th	8.68	6.77		9.93	
87Sr/86Sr,l					
143Nd/144Nd	0.512577				
206Pb/204Pb	17.842				
207Pb/204Pb	15.471				
208Pb/204Pb	37.793				

Sample	DML-6	WC-OBS	J86-22	86504	H88-79	RT336-200
Age, Ma	35.6-35.3	35.6	35.6		36.8	
Long W	104 02	104 01	103 55.5	103 45	103 55	105 28
Lat N	30 40	30 38	30 35.9	30 30	30 55	31 16
SiO2	73.08	71.44	72.21	71.00	72.24	70.90
TiO2	0.41	0.43	0.47	0.10	0.56	0.02
Al2O3	12.84	13.52	13.72	14.70	15.14	13.19
Fe2O3	0.52	2.52	3.19		2.35	
FeO	2.14	0.42	0.07			
FeO*				2.20		3.08
MnO	0.11	0.02	0.05	0.05	0.11	0.08
MgO	1.64	0.14	0.19	0.18	0.04	0.05
CaO	0.46	0.35	0.31	0.27	0.21	1.62
Na2O	4.17	4.49	3.97	5.10	4.76	5.29
K2O	5.44	5.55	5.80	4.70	5.80	3.90
P2O5	0.43	0.06	0.02	0.01	0.05	
H2O+		0.04	0.58		0.46	0.43
H2O-		0.10				
CO2						0.04
Total	101.24	99.08	98.76	98.31	99.51	98.13
SiO2'	72.18	72.21	72.21	72.22	72.24	72.25
(Na2O+K2O)'	9.49	10.15	9.77	9.97	10.56	9.37
Sc						
V						5
Cr						
Ni						27
Cu						40
Zn		84				580
Ga					25	
Rb		322		279	108	1500
Sr		26	37	2	6	120
Y		104	79		79	250
Zr		868		675	574	1000
Nb		214		127	40	380
Cs						67
Ba		166	199	33	166	15
La			104			29
Ce			218			110
Pr						14
Nd			76			38
Sm						13
Eu			0.6			0.2
Gd			14			15
Tb						4.7
Dy			13			38
Ho						8.9
Er			9.7			34
Tm			9.8			6.9
Yb			1.52			54
Lu						7.8

Hf						
Ta						26
Pb						210
Th						190
U						46
Li						470
F						13300
Rb/Sr		12.4		140	18	12.5
Cen/Ybn			6.01			0.55
Eu*						0.04
Zr/Hf						
Ba/Rb		0.52		0.12	1.54	0.01
Rb/Th						7.89
87Sr/86Sr,l						
143Nd/144Nd						
206Pb/204Pb						
207Pb/204Pb						
208Pb/204Pb						

Sample	MN1	H87-153	97412	LRT-E	H89-19	J87-41
Age, Ma	36.3	36.8	36.5		36.5	35.3
Long W	103 50.4	103 36.5	104 10	105 27.7	103 57.4	104 12.7
Lat N	30 18.7	30 02.4	30 58	31 17.1	30 49.6	30 31.5
SiO2	72.29	72.29	71.86	72.32	72.32	72.38
TiO2	0.06	0.63	0.41	0.02	0.43	0.34
Al2O3	13.65	13.99	13.24	13.41	12.86	13.39
Fe2O3	2.65	3.44		1.63	1.98	
FeO		0.91			1.72	
FeO*			3.21			3.09
MnO	0.05	0.05	0.06	0.08	0.13	0.08
MgO	0.03	0.11	0.15	0.45	0.17	0.07
CaO	0.77	0.37	0.27	0.72	0.50	0.47
Na2O	5.75	4.71	4.66	5.07	3.67	4.69
K2O	4.70	5.46	5.52	4.11	6.18	5.46
P2O5	0.04	0.06	0.02		0.02	0.03
H2O+		0.36			3.19	0.36
H2O-						
CO2						
Total	99.99	100.14	99.40	100	97.19	100.35
SiO2'	72.29	72.29	72.29	72.32	72.32	72.38
(Na2O+K2O)'	10.45	10.17	10.24	9.18	9.85	10.15
Sc	0.37					
V	15					18
Cr						
Ni						13
Cu						1
Zn	279		194			124
Ga		23				29
Rb	300	130	211	2143		329
Sr	46	43	10.2	171	9	16
Y	190	94	128	390		117
Zr	1180	793	1288	1360		863
Nb	337	59	167	476		153
Cs			2.4			
Ba		809	38		51	56
La	129	82	155			119
Ce	232	170	300			338
Pr		22				
Nd	120	74	127			
Sm	24.9	15	18.9			
Eu	0.64	2.5	1.42			
Gd		17				
Tb	4.76	2.4	3			
Dy		14				
Ho		2.7				
Er		7.7				
Tm		1.1				
Yb	16	7.6	16.2			
Lu	2.07	1.2	2.4			

Hf	39.4		33.5			
Ta	15.7					36
Pb						53
Th	37.5		25.7	202		
U						
Li						
F						
Rb/Sr	6.52	3.02	20.7	12.5		20.6
Cen/Ybn	3.92	6.05	5.01			
Eu*	0.07	0.47	0.22			
Zr/Hf	29.9		38.4			
Ba/Rb		6.22	0.18			0.17
Rb/Th	8		8.21	10.6		6.21
$^{87}\text{Sr}/^{86}\text{Sr}_i$						
$^{143}\text{Nd}/^{144}\text{Nd}$						
$^{206}\text{Pb}/^{204}\text{Pb}$						
$^{207}\text{Pb}/^{204}\text{Pb}$						
$^{208}\text{Pb}/^{204}\text{Pb}$						

Sample	J87-44	81019	DM128	H89-37	QM-67	RT2-34
Age, Ma	35.3	36.5	35.6	36.5	34.1	
Long W	104 12.9	104 04	104 01.1	103 53.5	105 29.8	105 28
Lat N	30 31.7	30 51.5	30 39.3	30 41.7	31 08.7	31 16
SiO2	72.47	72.48	71.87	72.61	72.64	71.97
TiO2	0.34	0.36	0.31	0.39	0.17	0.02
Al2O3	13.38	12.60	12.90	12.61	13.56	13.99
Fe2O3			0.69		1.04	
FeO			2.85		0.93	
FeO*	2.71	3.91		3.99		2.50
MnO	0.09	0.09	0.16	0.09	0.11	0.08
MgO	0.09	0.15	0.10	0.14	0.05	0.45
CaO	0.54	0.30	0.60	0.29	1.99	0.15
Na2O	4.78	4.51	4.32	4.34	4.26	5.74
K2O	5.57	5.56	5.08	5.53	5.22	4.13
P2O5	0.03	0.04	0.16	0.02	0.03	
H2O+	0.12			0.58		0.41
H2O-						
CO2						0.04
Total	100.17	100	99.04	100.34	100	99.03
SiO2'	72.47	72.48	72.57	72.61	72.64	72.67
(Na2O+K2O)'	10.35	10.07	9.49	9.87	9.50	9.97
Sc	3		4.05	4	1.4	
V	4					
Cr	2		1.62		4.8	
Ni	15			11	1	23
Cu	5				20	45
Zn	101		168	158	82	580
Ga	26			30		
Rb	323	209	239	214	206	2000
Sr	22	32.2	50	7	62	220
Y	107	101	130	137	74	230
Zr	696	1362	941	1265	357	1100
Nb	136	121	102	116	77	390
Cs			4.84		2.56	48
Ba	121	53	85	15	114	14
La	131		133	132	68.9	26
Ce	275		230	305	130	88
Pr						12
Nd		114.4	110		53.4	31
Sm		22.3	18.37		8.7	11
Eu			0.68			0.1
Gd						12
Tb			3.11		1.19	3.8
Dy						33
Ho					2.5	7.9
Er						30
Tm						5.9
Yb			12.88		7.3	44
Lu			1.77		0.76	6

Hf			27.99		22.9	
Ta	23		8.72		2.7	37
Pb	51	15.3		30		240
Th		10.9	27.64	22	19.8	180
U		3.84	10.39		5.2	28
Li					10	520
F					370	15700
Rb/Sr	14.7	6.49	4.78	30.6	3.32	20
Cen/Ybn			4.83		4.81	0.54
Eu*			0.11			0.03
Zr/Hf			33.6		15.6	
Ba/Rb	0.37	0.25	0.36	0.07	0.55	0.007
Rb/Th	6.33	19.2	8.65	9.73	10.4	11.1
87Sr/86Sr,l						
143Nd/144Nd		0.512635				
206Pb/204Pb		17.861				
207Pb/204Pb		15.457				
208Pb/204Pb		37.767				

Sample	92517	DP-141	LBM-1	Cien-1A	9910001	Pais-2
Age, Ma	29	36.5		32.72	36.5	36.3
Long W	103 28.5	103 58	105 27	104 10	104 10	103 46
Lat N	29 09	30 47.5	31 17.2	29 45	30 47.5	30 20
SiO2	72.01	71.35	72.75	73.00	73.55	72.25
TiO2	0.52	0.40	0.13	0.18	0.41	0.13
Al2O3	12.54	12.88	14.45	13.65	13.17	12.70
Fe2O3		1.79	2.06	1.67		1.71
FeO		1.40		0.90		1.90
FeO*	3.85				3.70	
MnO	0.10	0.07	0.08	0.10		0.12
MgO		0.20	0.10	0.05	0.01	0.03
CaO	0.06	0.32	0.52	0.31	0.12	0.36
Na2O	5.17	4.04	5.02	5.60	4.50	5.49
K2O	4.83	5.54	4.84	4.76	5.49	4.42
P2O5		0.10	0.01	0.02		0.03
H2O+		0.87		0.34		0.35
H2O-		0.19		0.18		0.17
CO2				0.04		0.55
Total	99.08	99.15	100	100.8	100.95	100.21
SiO2'	72.68	72.74	72.75	72.83	72.86	72.88
(Na2O+K2O)'	10.09	9.77	9.86	10.34	9.90	10.00
Sc						
V						
Cr						
Ni						
Cu						
Zn		108				
Ga						
Rb	433	209	2047			
Sr	4	17	12			
Y	120	113	153			
Zr	1356	1204	990			
Nb	245	119	430			
Cs						
Ba	26	92				
La						
Ce	378					
Pr						
Nd	207					
Sm						
Eu						
Gd						
Tb						
Dy						
Ho						
Er						
Tm						
Yb						
Lu						

Hf						
Ta						
Pb						
Th	60		208			
U						
Li						
F						
Rb/Sr	108.3	12.3	12			
Cen/Ybn						
Eu*						
Zr/Hf						
Ba/Rb	0.06	0.44				
Rb/Th	7.22		9.84			
$^{87}\text{Sr}/^{86}\text{Sr}_i$						
$^{143}\text{Nd}/^{144}\text{Nd}$						
$^{206}\text{Pb}/^{204}\text{Pb}$						
$^{207}\text{Pb}/^{204}\text{Pb}$						
$^{208}\text{Pb}/^{204}\text{Pb}$						

Sample	RT283-182.5	81-191b	J88-14	RT5-169	C-5	H88-85
Age, Ma		38.4-36.9			36.8	
Long W	105 28	104 51	105 24	105 28	104*	103 50.4
Lat N	31 16	30 50.1	31 17	31 16	30 55*	30 31.6
SiO2	71.55	72.24	71.90	71.94	71.80	73.08
TiO2	0.04	0.44	0.27	0.02	0.54	0.10
Al2O3	13.26	12.55	14.80	13.55	10.50	14.09
Fe2O3		2.81			3.44	
FeO		0.30			2.46	
FeO*	2.19		1.38	2.80		1.75
MnO	0.08	0.02	0.03	0.08	0.17	0.05
MgO	0.12	0.26	0.22	0.14	0.11	
CaO	1.16	0.96	1.03	0.33	0.51	0.42
Na2O	5.44	2.57	4.17	5.61	4.05	5.94
K2O	4.32	6.87	4.69	4.09	4.82	4.56
P2O5		0.08	0.08		0.06	0.01
H2O+	0.31	0.55		0.41	0.72	0.45
H2O-					0.52	
CO2	0.04	0.32				
Total	98.16	99.97	98.57	98.56	99.60	100.33
SiO2'	72.89	72.90	72.94	72.99	73.00	73.08
(Na2O+K2O)'	9.94	9.53	8.99	9.84	9.02	10.50
Sc						1
V	5					
Cr						3
Ni	22			25		14
Cu	62			52		4
Zn	630	49		60	123	155
Ga						27
Rb	1800			1700	181	250
Sr	140	102	160	90	13	4
Y	240		54	280	99	100
Zr	1100	530	290	1100	1231	548
Nb	400			410	98	105
Cs	58			56		
Ba	22	675	860	14	43	
La	28		87	31		127
Ce	110		130	110		227
Pr	13			16		
Nd	36		64	40		
Sm	13		13	14		
Eu	0.2		1.9	0.2		
Gd	14			17		
Tb	4.4		1.7	5.3		
Dy	37			42		
Ho	8.9			10		
Er	34			41		
Tm	6.9			8.1		
Yb	51		31	61		
Lu	7.4		0.6	8.9		

Hf						
Ta	31			36		23
Pb	290		40	250		20
Th	230		40	210		
U	56		4	40		
Li	510		28	510		
F	11800	280	1900	12400		
Rb/Sr	12.9			18.9	13.9	62.5
Cen/Ybn	0.58		1.13	0.49		
Eu*	0.04		0.45	0.04		
Zr/Hf						
Ba/Rb	0.012			0.008	0.24	
Rb/Th	7.83			8.1		12.5
87Sr/86Sr,l						
143Nd/144Nd						
206Pb/204Pb						
207Pb/204Pb						
208Pb/204Pb						

Sample	H89-38	RT287-200	RT201-355	H89-23	RS71-3	DM118
Age, Ma	36.5			35.3	35.3	35.9
Long W	103 53.3	105 28	105 28	103 57.7		103 51
Lat N	30 41.8	31 16	31 16	30 50.3		30 32.3
SiO2	73.09	72.53	72.72	73.19	72.67	72.32
TiO2	0.41	0.03	0.02	0.26	0.36	0.26
Al2O3	12.85	13.49	13.69	13.17	12.67	14.54
Fe2O3	2.06			1.83	2.00	0.53
FeO	1.99			1.05		2.19
FeO*		2.57	2.58			
MnO	0.15	0.08	0.07	0.08	0.02	0.11
MgO	0.16	0.01	0.20	0.10	1.93	0.11
CaO	0.53	0.02	0.44	0.49	0.45	0.39
Na2O	2.90	6.29	5.56	4.42	3.63	3.80
K2O	5.85	4.12	4.09	5.38	5.45	4.45
P2O5	0.02			0.02	0.07	0.04
H2O+	4.89	0.14	0.55	0.42		
H2O-						
CO2						
Total	95.17	99.14	99.37	98.86	99.25	98.74
SiO2'	73.09	73.16	73.18	73.19	73.22	73.24
(Na2O+K2O)'	8.75	10.50	9.71	9.80	9.15	8.36
Sc					5.91	3.61
V			6			
Cr						1.43
Ni		21	23			
Cu		45	56			
Zn		620	550		128	132
Ga						
Rb		2000	2000		213	159
Sr	8	7	100	7	74	53.6
Y		230	220		118	131
Zr		1100	1100		1121	721
Nb		410	380		90	87.2
Cs		51	47		0.92	1.52
Ba	25	12	7	38	879	270
La		21	27		132	113
Ce		73	97		258	214
Pr		11	12			
Nd		28	29		109	103
Sm		10	12		21.73	15.88
Eu		0.1	0.1		0.87	0.59
Gd		12	12			
Tb		4	4.1		4.31	2.92
Dy		33	32			
Ho		8	8.1			
Er		30	32			
Tm		6	5.7			
Yb		44	47		12.99	11.5
Lu		6.1	7.1		1.81	1.56

Hf					34.51	21.91
Ta		38	42		9.77	6.78
Pb		300	260			
Th		210	190		24.25	20.23
U		35	33		6.27	7.87
Li		500	480			
F		13800	13200			
Rb/Sr		286			2.88	2.97
Cen/Ybn		0.45	0.33		5.37	5.03
Eu*		0.03	0.03		0.11	0.11
Zr/Hf					32.5	32.9
Ba/Rb		0.006	0.004		4.13	1.7
Rb/Th		9.52	10.5		8.78	7.86
⁸⁷ Sr/ ⁸⁶ Sr _l						
¹⁴³ Nd/ ¹⁴⁴ Nd						
²⁰⁶ Pb/ ²⁰⁴ Pb						
²⁰⁷ Pb/ ²⁰⁴ Pb						
²⁰⁸ Pb/ ²⁰⁴ Pb						

Sample	BigHill-1	92201	5-D	H81-179	32-128	BB83-1
Age, Ma	30.5	29	33.3	36	29	
Long W	104 29*	103 24	103 54	104 17	103 29.5	103 45
Lat N	29 10*	29 14	29 11	30 02	29 8.5	30 30
SiO2	72.92	72.73	72.61	73.42	73.42	75.29
TiO2	0.23	0.35	0.38	0.15	0.23	0.15
Al2O3	12.95	12.10	13.58	14.09	11.71	12.32
Fe2O3	1.93		1.84	2.22	4.32	4.23
FeO	0.15		0.14	0.04		
FeO*		3.61				
MnO	0.01	0.08	0.03	0.06	0.03	0.04
MgO	0.27	0.09	0.13	0.07		0.41
CaO	0.88	0.28	0.60	0.28	0.20	0.52
Na2O	3.59	5.13	4.38	4.53	5.29	4.95
K2O	5.42	4.85	5.16	5.08	4.71	4.43
P2O5	0.05		0.08	0.06	0.03	0.12
H2O+	0.57		0.46			
H2O-	0.29		0.10			
CO2	0.17		0.19			
Total	99.49	99.22	99.72	100	99.94	102.46
SiO2'	73.29	73.30	73.37	73.42	73.46	73.48
(Na2O+K2O)'	9.06	10.06	9.64	9.61	10.01	9.15
Sc						0.17
V						
Cr						2.88
Ni						
Cu						
Zn	80					306
Ga						
Rb	248	424	182		344	426
Sr	65	9	57		7	59
Y	78	92	44		102	191
Zr	253	1296	463			1376
Nb	43	234	40		191	153
Cs						2.1
Ba		15				547
La						161
Ce		279				334
Pr						
Nd		159				168
Sm						29.45
Eu						
Gd						
Tb						5.47
Dy						
Ho						
Er						
Tm						
Yb						16.73
Lu						2.08

Hf						41.22
Ta						16.24
Pb						
Th		39		50		53.23
U						0.93
Li						
F						
Rb/Sr	3.82	47.1	3.19	49.1		7.22
Cen/Ybn						5.4
Eu*						
Zr/Hf						33.4
Ba/Rb		0.04				1.28
Rb/Th		10.9		6.88		8
$^{87}\text{Sr}/^{86}\text{Sr}_i$						
$^{143}\text{Nd}/^{144}\text{Nd}$						
$^{206}\text{Pb}/^{204}\text{Pb}$						
$^{207}\text{Pb}/^{204}\text{Pb}$						
$^{208}\text{Pb}/^{204}\text{Pb}$						

Sample	81022	J85-55	86205	86206	BB32P	97408
Age, Ma	36.8				30.5	36.8
Long W	104 01	105 28	103 52	103 52	104 29*	104 10
Lat N	30 53	31 16	30 30	30 30	29 10*	30 58
SiO2	73.48	72.47	73.50	71.80	73.87	73.02
TiO2	0.37	0.02	0.16	0.09	0.21	0.44
Al2O3	11.03	13.68	13.47	13.41	12.13	9.79
Fe2O3		0.72			1.28	
FeO		0.69			0.61	
FeO*	4.97		2.75	1.83		5.85
MnO	0.12	0.08	0.06	0.03	0.04	0.11
MgO	0.01	0.01	0.30	0.45	0.10	0.04
CaO	0.22	0.08	0.18	0.28	0.54	0.19
Na2O	4.72	6.48	4.78	5.02	3.40	4.76
K2O	5.05	4.22	4.60	4.55	5.37	4.81
P2O5	0.02		0.01	0.01	0.02	0.01
H2O+		0.13			2.41	
H2O-					0.27	
CO2						
Total	99.99	98.45	99.81	97.47	100.25	99.02
SiO2'	73.49	73.61	73.64	73.66	73.69	73.74
(Na2O+K2O)'	9.77	10.87	9.40	9.82	8.75	9.66
Sc						
V						
Cr						
Ni						
Cu		57				
Zn		610			97	226
Ga						
Rb	194	1960			248	213
Sr	5.6	28			14	4
Y	93	220			77	100
Zr	1008	1040			340	1371
Nb	83	340			72	150
Cs		83				1.5
Ba	22	5				27
La		22				170
Ce		80				346
Pr		10				
Nd	101.7	25				154
Sm	24.6	9.7				24.6
Eu		0.1				1.73
Gd		11				
Tb		3.5				3.5
Dy		30				
Ho		7.4				
Er		30				
Tm		6				
Yb		48				15.5
Lu		7.1				2.36

Hf						33.9
Ta		35				
Pb	25.2	320				
Th	19.5	230				22.6
U	3.39	54				
Li		460				
F		19400				
Rb/Sr	34.6	70		17.7		53.3
Cen/Ybn		0.45				6.03
Eu*		0.03				0.21
Zr/Hf						40.4
Ba/Rb	0.11	0.003				0.13
Rb/Th	9.95	8.52				9.42
87Sr/86Sr,l						
143Nd/144Nd	0.512617					
206Pb/204Pb	17.996					
207Pb/204Pb	15.484					
208Pb/204Pb	37.841					

Sample	X-1-1	BD-1	126	SC-15c	SB-1	Pais-1A
Age, Ma	32.8		37.2	30.5	36.2	36.3
Long W	104 20	103 45	104 40	104 29*	105 25.6	103 46
Lat N	29 10	30 30	30 19	29 10*	31 14.1	30 20
SiO2	72.67	72.93	74.50	71.83	73.96	74.10
TiO2	0.32	0.10	0.75	0.38	0.02	0.19
Al2O3	13.73	13.20	12.70	13.12	13.68	12.60
Fe2O3	1.25	1.76	2.81	1.53	1.27	1.73
FeO	0.10	0.79	0.10	0.70		1.20
FeO*						
MnO		0.01		0.03	0.08	0.07
MgO	0.07	0.05	0.17	0.32	0.23	0.02
CaO	0.55	0.35	0.19	1.03	0.57	0.39
Na2O	4.27	5.13	4.45	4.09	4.95	5.55
K2O	5.50	4.44	5.05	4.07	4.31	4.30
P2O5	0.06	0.01	0.10	0.07		0.02
H2O+	0.34	0.45	0.96	1.89		0.16
H2O-	0.32	0.23	0.15	0.45		0.10
CO2	0.13	0.03		0.01		0.15
Total	99.31	99.48	101.93	99.52	100	100.58
SiO2'	73.76	73.84	73.89	73.92	73.96	73.97
(Na2O+K2O)'	9.92	9.69	9.42	8.40	9.26	9.83
Sc						
V						
Cr						
Ni						
Cu						
Zn		98		82		
Ga						
Rb	211	275		222	1081	
Sr	79			84	2	
Y	21			128	259	
Zr	371	623		301	136	
Nb	45	242		59	88	
Cs						
Ba						
La						
Ce						
Pr						
Nd						
Sm						
Eu						
Gd						
Tb						
Dy						
Ho						
Er						
Tm						
Yb						
Lu						

Hf						
Ta						
Pb						
Th					64	
U						
Li						
F						
Rb/Sr	2.67			3.82	540	
Cen/Ybn						
Eu*						
Zr/Hf						
Ba/Rb						
Rb/Th					16.9	
$^{87}\text{Sr}/^{86}\text{Sr}_i$						
$^{143}\text{Nd}/^{144}\text{Nd}$						
$^{206}\text{Pb}/^{204}\text{Pb}$						
$^{207}\text{Pb}/^{204}\text{Pb}$						
$^{208}\text{Pb}/^{204}\text{Pb}$						