

ПРИЛОЖЕНИЕ 2 / SUPPLEMENT 2

Table 2. Informative petrogenic components (wt. %), content trace elements (ppm) and characteristic ratios of the rocks

Таблица 2. Информативные петрогенные компоненты (мас. %), содержания рассеянных элементов (г/т) и характеристические отношения в породах.

Nº	1	2	3	4	5	6	7
Massif		2		3	4		5
Sample №	5036/5	4029/1	4034/1	70-41-03	3788-3	3211-4	3209-1
Type	I	I	I	A	-	-	-
Informative petrogenic components							
SiO ₂	68.20	61.80	63.70	75.80	74.50	71.50	79
Al ₂ O ₃	15.30	16.40	15.50	11.81	13.40	13.90	7.24
FeO*	3.75	4.56	4.72	2.01	1.27	2.88	0.79
MgO	1.46	3.70	2.56	0.25	0.22	0.78	0.24
CaO	1.13	3.50	4.06	0.80	1.69	0.47	3.79
Na ₂ O	4.15	3.69	3.53	2.52	7.13	3.73	1.22
K ₂ O	3.24	2.51	3.04	5.91	0.56	4.64	3.84
Trace elements							
Ba	1230	1170	911	600.0	-	-	-
Rb	85.4	60.8	84.5	53.0	-	-	-
Sr	159	409	302	24.0	-	-	-
Pb	-	-	-	-	-	-	-
Zr	218	154	207	769.0	-	-	-
Nb	9.1	6.7	8.5	-	-	-	-
Y	20.7	15.5	21.8	87.0	-	52.6	13.3
Ce	65.4	53.3	54.7	90.8	-	62.0	54.9
Sc	-	-	-	2.1	-	-	-
V	38.6	89.4	103	-	-	-	-
Ni	-	-	-	-	-	-	-
Cu	-	-	-	-	-	-	-
Zn	-	-	-	56.0	-	-	-
Ga	16.6	17.9	16.6	-	-	-	-
Characteristic ratios							
ASI	1.36	1.39	1.23	1.05	0.97	1.21	0.76
A.I.	0.68	0.54	0.59	0.89	0.92	0.80	0.85
al ^r	2.94	1.99	2.13	5.23	8.99	3.80	7.03
K/Rb	314.95	342.71	298.66	925.69	-	-	-
Rb/Sr	0.54	0.15	0.28	2.21	-	-	-
10 ⁴ Ga/Al	2.05	2.06	2.02	-	-	-	-
Eu*	0.72	0.91	0.72	0.34	-	0.38	0.50
La _N /Yb _N	13.18	15.99	9.08	4.53	-	3.86	13.25
SREE	155.48	127.12	132.18	250.30	-	164.10	120.32

Table 2. (continued)**Таблица 2.** (продолжение)

Nº	8	9	10	11	12	13	14
Massif	5		6			7	
Sample №	3207-4	3758-2	A52/14	178	GR12	M143	3520-3
Granite type	I	-	A	-	-	A	-
Informative petrogenic components							
SiO ₂	85	73.50	73.20	67.54	74.08	68.66	74.80
Al ₂ O ₃	8.77	15.30	13.04	15.61	14.06	11.46	13.60
FeO*	0.55	0.81	2.09	3.83	1.63	5.75	1.52
MgO	0.20	0.11	1.24	1.42	0.50	1.50	0.33
CaO	0.31	0.77	0.20	2.67	0.70	2.78	1.31
Na ₂ O	4.57	8.10	5.06	3.92	4.55	3.39	3.11
K ₂ O	0.49	0.58	3.53	2.69	3.34	4.46	4.72
Trace elements							
Ba	622	-	732.0	-	-	1345	-
Rb	124	-	128.0	-	-	109	-
Sr	10	-	85.9	-	-	87	-
Pb	11.70	-	32.8	-	-	-	-
Zr	65.70	-	316.0	-	-	125	-
Nb	2.58	-	17.3	-	-	-	-
Y	5.88	-	42.8	-	-	-	-
Ce	9.05	-	221.0	-	-	85	-
Sc	-	-	-	-	-	16	-
V	12.50	-	12.1	-	-	-	-
Ni	7.46	-	10.2	-	-	-	-
Cu	3.91	-	5.3	-	-	-	-
Zn	17.30	-	46.1	-	-	70	-
Ga	7.63	-	20.3	-	-	-	-
Characteristic ratios							
ASI	1.06	1.05	1.06	1.36	1.21	0.91	1.20
A.I.	0.92	0.91	0.93	0.60	0.79	0.91	0.75
al ^r	11.69	16.63	3.92	2.97	6.60	1.58	7.35
K/Rb	32.80	-	228.94	-	-	339.83	-
Rb/Sr	12.16	-	1.49	-	-	1.25	-
10 ⁴ Ga/Al	1.64	-	2.94	-	-	-	-
Eu*	1.30	-	0.37	-	-	0.49	-
La _N /Yb _N	3.09	-	23.28	-	-	7.43	-
SREE	123.30	-	493.53	-	-	212.73	-

Table 2. (continued)**Таблица 2.** (продолжение)

Nº	15	16	17	18	19	20	21
Massif	8	9	10	11		12	
Sample №	A24/11	7061-4	172	3577	453-1	54/90	170/01
Granite type	A	-	A ₂	-	A ₂	A ₂	A ₂
Informative petrogenic components							
SiO ₂	74.46	72.80	76.41	75.40	67.37	76.20	75.84
Al ₂ O ₃	12.25	14.10	13.09	12.50	12.29	13	13.09
FeO*	2.37	1.54	1.99	2.31	12.72	1.80	1.45
MgO	0.73	1.06	0.23	0.25	0.28	0.48	0.23
CaO	0.50	1.64	0.39	0.74	5.98	0.24	0.38
Na ₂ O	4.79	3.67	4.80	4.63	2.78	4.60	5.79
K ₂ O	4.06	4.23	1.73	3.80	4.43	2.20	2.38
Trace elements							
Ba	-	-	-	-	215	-	-
Rb	-	-	120	-	2280	137.8	784
Sr	-	-	47	-	160	185	-
Pb	-	-	25	-	-	14	-
Zr	330	-	145	-	3730	190	12
Nb	-	-	26	-	1490	20	405
Y	-	-	35	-	330	38	-
Ce	-	-	34.7	-	10.40	27.9	45
Sc	-	-	-	-	0.30	-	-
V	-	-	-	-	20	-	-
Ni	-	-	-	-	220	-	-
Cu	-	-	-	-	-	-	-
Zn	-	-	-	-	230	-	-
Ga	32	-	18	-	51	19	77
Characteristic ratios							
ASI	0.96	1.17	1.30	1.01	0.83	1.28	1.06
A.I.	1	0.75	0.75	0.94	0.76	0.76	0.92
al'	3.96	5.42	5.89	4.88	7.68	5.70	7.79
K/Rb	-	-	120.18	-	16.13	132.53	25.20
Rb/Sr	-	-	2.54	-	14.25	0.74	-
10 ⁴ Ga/Al	4.94	-	2.60	-	7.84	2.76	11.11
Eu*	-	-	0.28	-	0.10	-	0.02
La _N /Yb _N	-	-	3.38	-	0.05	2.75	0.29
SREE	-	-	97.80	-	175.63	65.42	181.58

Table 2. (continued)**Таблица 2.** (продолжение)

Nº	22	23	24	25	26	27	28
Massif		13			14		
Sample №	9-11-5	9-11-5	3603	6045/07	6047/07	LH	29/90
Granite type	I	-	-	-	-	A ₂	A ₂
Informative petrogenic components							
SiO ₂	73.40	73.05	74.3	70.48	73.69	79.04	76
Al ₂ O ₃	14.50	14.43	13.9	12.02	13.83	11.86	12.23
FeO*	0.84	1.65	1.58	4	2.27	1.51	2.57
MgO	0.15	0.41	0.17	0.11	0.25	0.4	0.4
CaO	0.50	0.71	0.75	2.58	0.52	0.36	0.24
Na ₂ O	4.20	4.42	5.82	4.10	6.42	6.12	4.64
K ₂ O	6.30	4.21	3.06	3.91	1.73	0.22	3
Trace elements							
Ba	120.72	1940	-	-	-	150	870
Rb	459.13	219.48	-	-	-	10	1320
Sr	29.66	44.45	-	-	-	-	73
Pb	49.95	-	-	-	-	-	780
Zr	33.12	95.55	-	-	-	280	8680
Nb	16.50	18.96	-	-	-	10	1625
Y	62.78	35.43	-	-	-	10	625
Ce	6.78	119	-	-	-	17.7	129
Sc	6.45	5.92	-	-	-	2	0.22
V	3.23	4.40	-	-	-	10	69
Ni	5.28	7.09	-	-	-	9	9.9
Cu	7.05	28.15	-	-	-	13	4.7
Zn	-	12.69	-	-	-	81	80
Ga	12.36	-	-	-	-	20	46
Characteristic ratios							
ASI	1.02	1.16	1.03	0.92	1.07	1.12	1.11
A.I.	0.95	0.82	0.93	0.91	0.90	0.87	0.89
al`	14.65	7	7.94	2.92	5.49	6.21	4.12
K/Rb	113.91	159.24	-	-	-	182.63	18.87
Rb/Sr	15.48	4.94	-	-	-	-	18.08
10 ⁴ Ga/Al	1.61	-	-	-	-	3.19	7.11
Eu*	0.35	0.77	-	-	-	0.56	-
La _N /Yb _N	0.31	17.41	-	-	-	1.79	0.81
SREE	44.95	277.35	-	-	-	58.8	527.8

Table 2. (continued)**Таблица 2.** (продолжение)

Nº	29	30	31	32	33	34	35
Massif	14	15		16		17	
Sample №	135/01	368/3	4271	1077-1	6104	3501-3	33-22
Granite type	A	A ₂	-	A	-	-	I
Informative petrogenic components							
SiO ₂	67.22	71.12	76	76.10	76.70	77	74.75
Al ₂ O ₃	12.93	13.12	12.40	12.82	12.80	9.93	13.84
FeO*	13.84	2.10	2.03	1.27	0.9	3.34	0.91
MgO	1.09	0.80	0.40	0.07	0.27	2.73	-
CaO	3.92	0.56	0.45	0.52	0.49	1.79	1.20
Na ₂ O	3.62	4.64	3.66	4.32	4.38	1.16	2.81
K ₂ O	4.20	5.84	4.13	4.32	4.18	2.28	5.32
Trace elements							
Ba	155	20	-	140	-	-	568.66
Rb	5000	95.3	-	150	-	-	54.82
Sr	210	75.7	-	10	-	-	381.79
Pb	-	-	-	-	-	-	-
Zr	3980	450	-	37	-	-	12.26
Nb	-	21	-	120	-	-	9.21
Y	360	37	-	85	-	-	8.64
Ce	44.1	35	-	16.90	-	-	51.11
Sc	0.69	1.1	-	2.69	-	-	6.93
V	11	-	-	1	-	-	61.91
Ni	22	-	-	130	-	-	18.17
Cu	3.1	-	-	1.50	-	-	17.17
Zn	1230	46.1	-	10	-	-	55.75
Ga	100	110	-	19	-	-	15.81
Characteristic ratios							
ASI	0.92	0.91	1.14	1.05	1.06	1.70	1.21
A.I.	0.81	1.06	0.85	0.92	0.92	0.44	0.75
al`	2.62	4.52	5.1	9.57	10.94	1.64	15.21
K/Rb	6.97	508.72	-	239.08	-	-	805.57
Rb/Sr	23.81	1.26	-	15	-	-	0.14
10 ⁴ Ga/Al	14.61	15.84	-	2.80	-	-	2.16
Eu*	0.06	0.07	-	0.32	-	-	0.91
La _N /Yb _N	0.29	29.20	-	1.68	-	-	22.97
SREE	287.99	79.23	-	59.15	-	-	113.54

Table 2. (continued)**Таблица 2.** (продолжение)

Nº	36	37	38	39	40	41	42
Massif			17		18	19	21
Sample №	40	71	09-23	08-239	09-18	11-51-8	Ep100
Granite type	I	I	-	-	I	I	I
Informative petrogenic components							
SiO ₂	77.68	75.92	76.10	75.10	75.20	76.73	66.54
Al ₂ O ₃	10.95	11.62	11.90	13.20	12.95	9.64	15.27
FeO*	1.8	1.93	1.53	1.05	1.88	1.43	5.64
MgO	-	0.19	0.30	0.19	0.32	2.22	2.84
CaO	0.35	0.47	0.30	0.60	0.35	1.96	3.84
Na ₂ O	2.94	4.37	2.30	5.20	5.10	1.10	2.03
K ₂ O	5.26	4.74	7.40	4.10	3.42	5.86	1.33
Trace elements							
Ba	193.29	668.18	-	-	39.23	176.65	225
Rb	152.09	61.07	-	-	177.90	115.01	48.70
Sr	52.30	53.76	-	-	27.54	7.26	280
Pb	-	-	-	-	46.12	25.11	-
Zr	63.51	57.86	-	-	105.91	57.69	20
Nb	14.36	11.97	-	-	66.80	7.39	-
Y	19.25	12.16	-	-	66.97	12.76	40
Ce	81.97	70.66	-	-	22.95	88.38	5.08
Sc	2.72	2.51	-	-	9.83	2.67	25.70
V	1.53	1.05	-	-	3.36	3.78	-
Ni	0.25	-	-	-	9.29	2.83	130
Cu	4.33	2.35	-	-	4.62	7.08	-
Zn	33.17	29.38	-	-	-	-	-
Ga	13.73	13.67	-	-	8.57	18.24	-
Characteristic ratios							
ASI	1.02	0.92	0.99	0.98	1.04	0.99	1.85
a.i.	0.96	1.06	0.99	0.98	0.93	0.85	0.31
al`	6.08	5.48	6.50	10.65	5.89	2.64	1.80
K/Rb	287.10	644.30	-	-	159.59	422.98	226.71
Rb/Sr	2.91	1.14	-	-	6.46	15.85	0.17
10 ⁴ Ga/Al	2.37	2.22	-	-	1.25	3.58	-
Eu*	0.19	0.34	-	-	0.04	0.19	0.63
La _N /Yb _N	6.27	8.81	-	-	0.78	22.13	1.11
SREE	139.82	141.46	-	-	94.13	211.11	25.19

Table 2. (continued)**Таблица 2.** (продолжение)

Nº	43	44	45	46	47	48	49
Massif		21		24	25	26	28
Sample №	63-2	1391	325/3	375/1	3010	1072	S221
Granite type	I	I	-	-	-	-	I
Informative petrogenic components							
SiO ₂	62.26	66.47	74.10	73.16	69.59	60.22	76.90
Al ₂ O ₃	13.68	14.90	13.68	13.40	13.32	14.38	11.79
FeO*	6.51	3.9	2.73	1.92	2.99	7.67	1.43
MgO	2.91	2.82	0.77	0.76	0.44	2.95	0.30
CaO	6.58	2	4.43	1.43	4.42	6.67	0.51
Na ₂ O	3.91	4.83	3.29	4.62	4.40	2.88	4.08
K ₂ O	1.17	2.11	0.03	2.42	1.26	0.28	3.61
Trace elements							
Ba	49	802	-	-	-	-	39.03
Rb	35	69.70	0.31	39.80	-	-	18.52
Sr	60	215	272.30	173.50	-	-	6.91
Pb	-	6.50	-	-	-	-	0.25
Zr	120	30	-	-	-	-	124.47
Nb	-	4.60	-	-	-	-	3.31
Y	-	10.50	-	-	-	-	18.67
Ce	2.30	33.50	-	-	-	-	13.65
Sc	-	8.40	-	-	-	-	1.76
V	-	6.60	-	-	-	-	3.35
Ni	-	7.80	-	-	-	-	2.39
Cu	-	44.70	-	-	-	-	5.22
Zn	-	27	-	-	-	-	1.99
Ga	-	13	-	-	-	-	-
Characteristic ratios							
ASI	1	1.25	1.46	1.17	1.08	1.33	1.07
A.I.	0.56	0.69	0.40	0.76	0.65	0.35	0.90
al`	1.45	2.22	3.91	5	3.88	0.23	6.82
K/Rb	277.51	251.31	803.37	504.76	-	-	1618.16
Rb/Sr	0.58	0.32	0	0.23	-	-	2.68
10 ⁴ Ga/Al	0	1.65	-	-	-	-	-
Eu*	0.61	1.03	-	-	-	-	0.15
La _N /Yb _N	0.70	104.84	-	-	-	-	1.68
SREE	12.42	250.78	-	-	-	-	54.02

Table 2. (continued)

Таблица 2. (продолжение)

Nº	50	51	52	53	54	55	56
Massif	29	30		33		34	35
Sample №	331/3	329/2	116-09	RUR-32	L-985	2005	Jl98
Granite type	-	-	I	-	I	I	
Informative petrogenic components							
SiO ₂	76.35	75.05	77.32	70.70	54.63	59.33	75.68
Al ₂ O ₃	12.05	12.60	12.21	15.29	16.14	17.17	12.59
FeO*	0.95	1.08	0.81	2.67	9.08	7.65	1.17
MgO	0.23	0.33	0.76	0.30	5.13	2.48	0.2
CaO	0.96	0.68	2.54	3.61	7.78	7.52	1.24
Na ₂ O	3.40	3.04	5.23	3.68	3.25	3.20	3.65
K ₂ O	4.65	6.02	0.06	1.65	0.54	1.29	4.77
Trace elements							
Ba	-	-	54.32	-	160	-	-
Rb	84.8	135.1	0.44	-	79	-	90
Sr	124.3	118.7	84.49	-	420	-	80
Pb	-	-	0.65	-	-	-	11
Zr	-	-	78.46	-	200	-	250
Nb	-	-	2.44	-	1	-	-
Y	-	-	27.36	-	18	-	28
Ce	-	-	20.45	-	23	-	36
Sc	-	-	2.12	-	-	-	-
V	-	-	13.09	-	350	-	3.4
Ni	-	-	7.56	-	25	-	2.8
Cu	-	-	4.93	-	-	-	-
Zn	-	-	5.58	-	-	-	-
Ga	-	-	7.05	-	-	-	10
Characteristic ratios							
ASI	1.05	1.04	1.12	1.39	1.27	1.29	1.03
A.I.	0.88	0.91	0.71	0.51	0.37	0.39	0.89
al`	10.21	8.94	7.78	5.15	1.14	1.69	9.19
K/Rb	455.21	369.91	1134.36	-	56.74	-	439.98
Rb/Sr	0.68	1.14	0.01	-	0.19	-	1.13
10 ⁴ Ga/Al	-	-	1.09	-	-	-	1.5
Eu*	-	-	0.65	-	1.43	-	0.47
La _N /Yb _N	-	-	3.22	-	4.15	-	3.70
SREE	-	-	57.73	-	54.08	-	78.54

Table 2. (continued)

Таблица 2. (продолжение)

Nº	57	58	59	60	61	62	63
Massif		37		40		42	
Sample №	11/93	13/93	Б-21	9-114	104/00	58/00	33/00
Granite type	I	I	I	A ₂	A	I	I
Informative petrogenic components							
SiO ₂	69.78	62.25	54.96	73.91	75.99	67.68	72.63
Al ₂ O ₃	14.52	15.48	18.39	14.35	12.29	15.20	13.46
FeO*	2.78	5.8	9.03	1.99	1.34	2.91	3.55
MgO	0.89	1.98	3.03	0.21	0.50	1.29	0.23
CaO	2.57	3.86	3.08	0.43	0.61	4.07	0.96
Na ₂ O	3.50	3.91	3.17	3	2.98	4.14	3.89
K ₂ O	4.19	2.94	2.74	4.71	5.16	1.54	3.54
Trace elements							
Ba	960	620	805	570.0	560.0	540.0	430.0
Rb	112	82	102	165.0	150.5	57.0	82.7
Sr	220	329	2700	80.0	30.0	260.0	170.0
Pb	13	10	-	10.0	10.0	8.5	7.1
Zr	120	200	130	150.0	80.0	160.0	200.0
Nb	8	7	10	-	40.0	H/o	20.0
Y	40	30	10	30	90	10.0	40.0
Ce	47	69.5	54.5	35	60	32.5	78.2
Sc	5.3	10.4	23.3	7.8	12.9	7.6	7.2
V	39	115	-	-	4.1	87.0	50
Ni	14	34	-	39.0	13.0	68.0	28
Cu	3.4	7.6	-	-	2.7	4.5	5
Zn	26	45	120	-	70.0	30.0	30
Ga	10	19	-	25.0	6.3	29.0	15
Characteristic ratios							
ASI	1.16	1.20	1.71	1.38	1.12	1.26	1.22
A.I.	0.71	0.62	0.44	0.70	0.85	0.56	0.76
al`	3.96	1.99	1.52	6.52	6.68	3.62	3.56
K/Rb	310.56	297.64	223	236.97	284.62	224.29	355.35
Rb/Sr	0.51	0.25	0.04	2.06	5.02	0.22	0.49
10 ⁴ Ga/Al	1.30	2.32	0	3.29	0.97	3.61	2.11
Eu*	0.73	0.60	0.11	0.93	0.29	1.01	0.54
La _N /Yb _N	11.34	10.64	6.24	3.48	4.19	11.03	14.79
SREE	66.30	170.45	137.12	99.94	175.24	81.02	185.27

Table 2. (continued)

Таблица 2. (продолжение)

Nº	64	65	66	67	68	69	70
Massif	42	44	45	46	47	48	49
Sample №	27/00	57/03	806	200801	201201	36/03	28/03
Granite type	I	S	S	S	S	S	I
Informative petrogenic components							
SiO ₂	55.75	74.13	77.11	72.68	75.61	75.75	73.24
Al ₂ O ₃	17.57	13.16	13.17	14.12	12.71	12.94	13.93
FeO*	7.36	2.03	2.14	2.11	1.64	1.28	1.77
MgO	4.49	0.38	0.20	0.46	0.25	0.15	0.46
CaO	6.46	0.76	0.50	1.23	0.57	0.46	1.02
Na ₂ O	3.10	3.84	4.72	3.71	3.73	4.18	4.25
K ₂ O	1.88	4.52	1.44	3.92	4.56	4.58	4.25
Trace elements							
Ba	965.0	552.0	1165	578	600	246	651
Rb	35.6	192.0	88.4	236.0	242.0	323.0	126.0
Sr	220.0	65.0	-	-	75.0	33.0	200.0
Pb	5.9	-	-	-	-	-	-
Zr	100.0	269.0	230.0	-	280.0	73.0	243.0
Nb	8.0	10.0	90.0	-	28.0	31.0	110.0
Y	10.0	57.0	100.0	-	58.0	63.0	40.0
Ce	37.0	76.0	128.0	35.2	60.9	16.4	55.7
Sc	22.3	7.0	4.6	5.4	4.8	3.5	2.8
V	95.0	-	-	-	-	-	-
Ni	130.0	60.0	-	-	187.0	58.0	57.0
Cu	16.0	-	-	-	-	-	-
Zn	90.0	53.0	270.0	40.0	44.0	58.0	10.0
Ga	18.0	-	13.0	-	-	-	-
Characteristic ratios							
ASI	1.38	1.11	1.35	1.24	1.10	1.06	1.12
A.I.	0.41	0.85	0.71	0.73	0.87	0.91	0.83
al`	1.48	5.46	5.63	5.49	6.72	9.05	6.25
K/Rb	438.39	195.43	135.23	137.89	156.42	117.71	280.01
Rb/Sr	0.16	2.95	-	-	3.23	9.79	0.63
10 ⁴ Ga/Al	1.94	-	1.87	-	-	-	-
Eu*	1.20	0.30	0.38	0.23	0.25	0.04	0.21
La _N /Yb _N	8.94	4.40	10.06	12.92	5.12	1.14	5.27
SREE	97.07	211.21	324.72	87.01	166.95	65.12	147.09

Table 2. (continued)

Таблица 2. (продолжение)

Nº	71	72	73	74	75	76	77	78
Massif	50	51	52	53	54	58	59	60
Sample №	254902	403601	103	46a/03	601406	12/66	50/66	285/66
Granite type	I	A	I	S	A ₁	A	A ₂	A
Informative petrogenic components								
SiO ₂	62.07	75.30	74.82	74.76	75.47	75.86	75.00	75.88
Al ₂ O ₃	18.01	12.35	13.37	13.14	13.12	12.15	12.19	12.09
FeO*	3.85	1.49	2.91	0.64	2.25	1.54	2.31	2.58
MgO	4.13	1.20	1.03	0.40	0.18	0.45	0.09	0.40
CaO	2.55	0.11	0.50	0.45	0.31	0.36	0.67	0.56
Na ₂ O	3.61	3.40	3.58	4.52	4.65	3.49	3.08	2.94
K ₂ O	2.75	5.41	3.81	4.33	2.06	4.83	4.91	5.04
Trace elements								
Ba	550	220	475.0	110.0	509.0	87.1	605.6	618.6
Rb	100	170	60.0	130.9	105.0	270.4	204	208.7
Sr	410	40	10.0	73.0	130.0	17.5	33.7	43.7
Pb	-	-	-	8.6	6.7	9.8	6.1	12.3
Zr	140	120	150.0	66.0	175.0	253.0	170.9	97.2
Nb	-	6	10.0	50.0	28.1	50.5	36.8	23.1
Y	10	50	80.0	50.0	18.0	57.3	65.1	78.2
Ce	30	35.2	69.8	16.6	63.4	46.2	176.5	84.3
Sc	12.5	5.0	1.2	1.1	-	3.8	6.27	19.6
V	-	12	-	5.7	10.9	5.2	2.1	4.0
Ni	-	-	3.4	70.0	3.6	2.4	1.4	1.8
Cu	-	6	-	4.3	-	3.0	1.9	2.3
Zn	40	10	30.0	60.0	29.7	13.0	34.1	19.3
Ga	-	-	-	16.0	26.0	10.9	23.0	25.2
Characteristic ratios								
ASI	1.65	1.07	1.28	1.05	1.30	1.08	1.1	1.12
A.I.	0.49	0.93	0.75	0.92	0.75	0.90	0.85	0.85
al`	2.26	4.59	3.39	12.63	5.39	6.11	5.08	4.06
K/Rb	228.3	264.2	527.1	274.6	162.8	148.2	199.8	200.5
Rb/Sr	0.24	4.25	6	1.79	0.81	15.45	6.05	4.78
10 ⁴ Ga/Al	-	-	-	2.30	3.74	1.70	3.57	3.93
Eu*	1.16	0.15	0.41	0.05	0.71	0.15	0.25	0.41
La _N /Yb _N	6.68	4.74	5.68	2.05	8.77	2.21	11.36	4.95
SREE	47.9	98.6	179.6	51.9	128.72	130.6	432.1	224.7

Table 2. (continued)

Таблица 2. (продолжение)

Nº	79	80	81	82	83	84	85
Massif	63	63			65		
Sample №	Pr91p9	Pr93p2	401803	400704	400701	GP	GL
Granite type	A ₂	A ₂	-	I	-	I	I
Informative petrogenic components							
SiO ₂	72.3	73.61	66.88	76.20	76	71.25	80.69
Al ₂ O ₃	11.74	12.81	14.06	13.24	12.61	15.08	10.91
FeO*	4.92	3.62	5.5	1.28	1.58	1.84	0.69
MgO	0.49	0.09	3.13	0.65	0.29	0.71	0.35
CaO	1.08	1.19	3.37	0.57	0.60	1.68	0.21
Na ₂ O	3.94	4.67	3.45	2.81	3.48	4.05	2.52
K ₂ O	3.94	2.32	0.36	4.17	4.31	4.21	3.99
Trace elements							
Ba	640.0	645.0	-	315.0	-	895.0	245.0
Rb	289.1	165.4	-	79.4	-	71.3	91.1
Sr	40	10	-	31.0	-	140.0	95.0
Pb	7.2	12.0	-	7.8	-	19	-
Zr	450.0	515.0	-	-	-	170	100
Nb	60.0	60.0	-	-	-	-	-
Y	100.0	130.0	-	20.0	-	40	28
Ce	167.0	171.0	-	30.0	-	52.1	11
Sc	3.6	4.2	-	3.0	-	4.9	1.2
V	60	72	-	9.4	-	29	10
Ni	310	-	-	50.0	-	20.0	20.0
Cu	-	-	-	3.7	-	4.4	4.5
Zn	-	-	-	20	-	10	20
Ga	28	27	-	9.3	-	17	11
Characteristic ratios							
ASI	0.50	1.17	1.58	1.39	1.15	1.20	1.27
A.I.	1.54	0.80	0.43	0.69	0.82	0.74	0.78
al`	2.17	3.45	1.63	6.86	6.74	5.91	10.49
K/Rb	1.72	116.44	-	435.98	-	490.17	363.59
Rb/Sr	7.2	16.54	-	2.56	-	0.51	0.96
10 ⁴ Ga/Al	12.45	3.98	-	1.33	-	2.13	1.91
Eu*	22.99	0.38	-	0.77	-	0.9	0.82
La _N /Yb _N	63.05	5.80	-	6.33	-	7.56	3.33
SREE	453.8	445.50	-	77.93	0	136.23	36.05

Table 2. (continued)**Таблица 2.** (продолжение)

Nº	86	87	88	89	90	91	92
Massif	65		66		67		68
Sample №	13-29-1	G-1	189-1	G-3	729-1	2070-2	7036
Granite type	A	A	A ₂	A	A	I	I
Informative petrogenic components							
SiO ₂	73.53	68.28	78.03	69.83	77.14	71.06	68.21
Al ₂ O ₃	13.41	14.16	11.16	14.44	11.61	13.69	14.60
FeO*	6.62	3.16	0.82	2.71	0.96	2.99	4.3
MgO	0.84	1.12	0	0.82	0.13	1.25	1.25
CaO	0.83	1.80	0.06	1.58	0.30	0.93	1.52
Na ₂ O	3.92	4.99	3.85	4.09	3.41	3.17	2.40
K ₂ O	4.12	4.44	5.05	4.86	4.90	4.12	4.27
Trace elements							
Ba	128.9	1430	115	1140	480.0	1090.8	895.4
Rb	136.7	160	170	130.0	813.0	88.2	82.2
Sr	17.3	150	-	170.0	51.0	151.5	263.8
Pb	18.1	11	5.0	9.0	8.4	-	-
Zr	147.3	-	-	205.0	160.0	32.3	97.2
Nb	34.7	-	-	-	41.0	17.0	17.1
Y	15.6	90.0	12.0	64.0	19.0	12.9	21.3
Ce	83.6	178.0	13.9	103.0	50.0	50.6	72.2
Sc	2.5	11.1	2.0	9.5	3.2	8.0	7.7
V	17.0	45	13	39	9.2	44.1	59.4
Ni	13.8	50	-	58	240.0	4.1	6.8
Cu	6.7	9.0	4.0	3.5	-	-	-
Zn	78.3	71	16	53	-	-	-
Ga	19.7	22	10	21	16	16	18.5
Characteristic ratios							
ASI	1.17	0.99	0.94	1.09	1.05	1.31	1.48
A.I.	0.81	0.92	1.06	0.83	0.94	0.71	0.59
al`	1.80	3.31	13.61	4.09	10.65	3.23	2.63
K/Rb	250.23	230.37	246.6	310.35	50.03	387.69	431.5
Rb/Sr	7.92	1.07	-	0.76	15.94	0.58	0.31
10 ⁴ Ga/Al	2.78	2.94	1.69	2.75	2.60	2.21	2.39
Eu*	0.32	0.58	0.31	0.52	0.08	0.75	0.68
La _N /Yb _N	12.84	9.25	1.73	7.01	3.81	8.58	10.69
SREE	160.82	452.21	41.28	270.92	130.43	113.40	163.4

Table 2. (continued)**Таблица 2.** (продолжение)

Nº	93	94	95	96	97	98	99
Massif	70	71	72	76	77	78	79
Sample №	6037	7512	12-247	2110	2126	2172-5	28
Granite type	I	I	I	I	A ₂	I	I
Informative petrogenic components							
SiO ₂	75.79	64.23	73.15	69.47	75.52	75.89	75.47
Al ₂ O ₃	12.59	15.26	13.34	14.56	12.63	12.75	12.75
FeO*	1.75	5.07	2.31	3.4	1.92	1.08	1.35
MgO	0.31	2.14	1.55	0.84	0.47	0.43	0.33
CaO	0.47	3.49	1.06	2.08	0.43	0.37	0.71
Na ₂ O	5.69	4.26	4.41	3.01	5.22	3.69	3.16
K ₂ O	1.56	2.68	2.66	4.98	3.34	5.35	4.89
Trace elements							
Ba	241.9	745.4	631.4	953.0	5.2	76.0	338
Rb	8.4	40.4	61.6	102.0	47.2	265.0	225
Sr	25.7	856.9	142.8	347.0	25.1	19.6	30.4
Pb	1.9	9.6	3.7	5.6	2.0	3.4	19.6
Zr	166.7	9.9	32.1	144.0	146.0	73.0	107
Nb	33.6	12.6	5.5	36.1	16.7	40.4	14.3
Y	23.1	13.8	15.2	12.6	23.6	9.7	26.2
Ce	59.9	59.8	20.6	24.1	61.9	43.6	62.8
Sc	4.5	7.1	5.3	2.5	3.2	3.5	4.2
V	-	-	18.7	20.8	9.6	6.8	12.9
Ni	2.5	17.5	4.3	3.1	1.9	1.8	-
Cu	-	-	8.6	3.7	7.0	4.3	4.1
Zn	37.4	61.3	27.9	25.0	26.1	6.4	13.7
Ga	16.6	14.9	12.0	14.1	16.6	16.2	14.5
Characteristic ratios							
ASI	1.10	1.20	1.21	1.21	1	1.05	1.15
A.I.	0.88	0.65	0.76	0.71	0.97	0.93	0.82
al ¹	6.11	2.12	3.46	3.43	5.28	8.44	7.59
K/Rb	1549.08	551.24	358.22	405.31	587.44	167.60	180.42
Rb/Sr	0.33	0.05	0.43	0.29	1.88	13.52	7.40
10 ⁴ Ga/Al	2.49	1.84	1.70	1.83	2.48	2.40	2.15
Eu*	0.75	0.96	0.74	1.03	0.37	0.41	0.31
La _N /Yb _N	2.95	11.80	3.83	6.20	8.50	16.78	6.93
SREE	132.43	143.14	56.51	52.41	139.15	91.95	144.78

Note. See numbers of massifs in the Fig. 1, c; «» - no date. ASI - (Al/(Ca-1.67P+Na+K)), A.I. - [K]+[Na]/[Al], al¹ - Al₂O₃/Fe₂O₃+FeO+MgO.

Примечание. Номера массивов показаны на рис 1, c; «» - нет данных. ASI - (Al/(Ca-1.67P+Na+K)), A.I. - [K]+[Na]/[Al], al¹ - Al₂O₃/Fe₂O₃+FeO+MgO.