Table 4. Results of two component mixing calculations for two samples.

	Part A 63.4% MB01-47	Part B 36.6% MB00-32B	= Mix Obs. MB01-50	Calc.	R	Part A 52.2% MB01-73	Part B 47.8% MB01-63	= Mix Obs. MB02-31B	Calc.	R
SiO_2	63.09	73.58	66.79	66.92	1.00	73.26	63.13	68.66	68.44	1.00
TiO_2	1.18	0.28	0.78	0.85	1.09	0.28	1.02	0.4	0.63	1.58
Al_2O3	15.49	13.26	14.7	14.67	1.00	14.93	15.41	15.36	15.16	0.99
Fe_2O_3	7.05	2.74	5.32	5.47	1.03	0.98	7.24	4.2	3.97	0.95
MnO	0.14	0.05	0.11	0.11	1.00	0.01	0.15	0.12	0.08	0.67
MgO	1.25	0.18	1.11	0.86	0.77	0.03	1.15	0.46	0.56	1.22
CaO	3.66	1.12	2.92	2.72	0.93	0.96	3.83	2.08	2.33	1.12
Na_2O	4.15	3.42	3.77	3.88	1.03	4.22	3.78	3.69	4.01	1.09
K_2O	3.53	5.3	4.29	4.18	0.97	5.29	3.96	4.82	4.66	0.97
P_2O_5	0.46	0.06	0.22	0.32	1.45	0.05	0.34	0.22	0.19	0.86
Σr^2					**0.167**					**0.325**
Ni	4	2	5	3	0.62	2	3	5	3	0.52
Sc	11	3.7	11	8.4	0.76	8.9	16	10	12	1.24
V	71	6	49	48	0.97	4	41	13	22	1.70
Ba	1179	1663	1372	1385	1.01	1918	1262	1884	1619	0.86
Rb	102	162	129	127	0.98	142	346	132	141	1.07
Sr	427	88	298	307	1.03	4	41	230	243	1.06
Zr	309	342	321	328	1.02	333	264	307	303	0.99
Y	40	35	38	39	1.03	33	44	44	39	0.89
La	46.0	46.1	44.5	46.9	1.05	48.9	39.4	44.7	44.8	1.00
Ce	90.7	86.6	93.2	90.9	0.98	88.8	77.2	79.7	84.1	1.06
Nd	45.4	39.0	44.2	43.8	0.99	41.5	39.1	39.1	40.8	1.04
Sm	10.5	8.85	8.90	10.0	1.12	9.50	9.39	9.00	9.60	1.07
Eu	2.63	1.28	2.10	2.20	1.05	1.71	2.36	1.80	2.00	1.11
Gd	9.36	7.75	8.50	8.90	1.05	8.53	8.85	8.30	8.80	1.06
Dy	8.05	7.54	6.80	8.00	1.18	7.95	8.60	8.30	8.40	1.01
Er	4.11	4.05	3.80	4.20	1.11	4.01	4.72	4.60	4.40	0.96
Yb	3.55	3.72	3.50	3.70	1.06	3.56	4.28	4.30	4.00	0.93

Obs.= observed concentrations; Calc.= calculated concentrations. R= the ratio of calculated daughter to the observed value
For major elements, the sum of the squared residuals is shown in bold. Major element concentrations are anhydrous values calculated by the "MIXING" module of IgPet2000.