

**Type 1**

Sample	SiO <sub>2</sub>	TiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	FeO	MgO	CaO	Na <sub>2</sub> O	K <sub>2</sub> O	Total	Distance (μm)	An%	Ab%	Or%
14Sil P1_A1	46.50	0.21	34.16	0.77	0.30	16.47	1.25	0.21	99.87	0	86.8	11.9	1.3
14Sil P1_A2	46.47	0.14	34.16	0.79	0.25	16.70	1.14	0.23	99.88	10	87.7	10.8	1.4
14Sil P1_A3	46.72	0.15	34.03	0.72	0.32	16.45	1.29	0.15	99.83	20	86.7	12.3	0.9
14Sil P1_A4	46.44	0.17	34.19	0.88	0.31	16.49	1.16	0.21	99.85	30	87.5	11.1	1.3
14Sil P1_A5	46.44	0.28	34.34	0.81	0.26	16.42	1.12	0.20	99.87	40	87.9	10.8	1.3
14Sil P1_A6	46.38	0.17	34.51	0.82	0.14	16.59	1.07	0.14	99.82	50	88.7	10.4	0.9
14Sil P1_A7	46.65	0.10	34.23	0.78	0.31	16.46	1.24	0.13	99.90	60	87.3	11.9	0.8
14Sil P1_A8	46.28	0.15	34.46	0.65	0.30	16.82	1.08	0.19	99.93	70	88.5	10.3	1.2
14Sil P1_A9	46.55	0.16	34.23	0.69	0.31	16.68	1.13	0.14	99.89	80	88.3	10.8	0.9
14Sil P1_A10	45.83	0.18	34.56	0.76	0.26	17.00	1.04	0.16	99.79	90	89.1	9.9	1.0
14Sil P1_A11	46.57	0.19	34.23	0.77	0.13	16.60	1.09	0.19	99.77	100	88.3	10.5	1.2
14Sil P1_A12	46.51	0.25	34.28	0.83	0.18	16.55	1.06	0.19	99.85	110	88.5	10.3	1.2
14Sil P1_A13	46.75	0.15	33.98	0.75	0.34	16.40	1.29	0.19	99.85	120	86.5	12.3	1.2
14Sil P1_A14	46.19	0.21	34.23	0.73	0.35	16.82	1.10	0.19	99.82	130	88.4	10.5	1.2
14Sil P1_A15	46.16	0.17	34.59	0.77	0.21	16.67	1.09	0.17	99.83	140	88.5	10.5	1.1
14Sil P1_A16	47.88	0.20	33.33	0.82	0.33	15.37	1.77	0.19	99.89	150	81.8	17.0	1.2
14Sil P1_A17	46.88	0.10	34.16	0.71	0.31	16.25	1.33	0.20	99.94	160	86.0	12.7	1.3
14Sil P1_A18	46.53	0.14	34.07	0.81	0.25	16.53	1.26	0.19	99.78	170	86.8	12.0	1.2
14Sil P1_A19	46.54	0.14	34.31	0.74	0.23	16.60	1.07	0.20	99.83	180	88.4	10.3	1.3
14Sil P1_A20	46.54	0.15	34.39	0.71	0.24	16.56	1.19	0.17	99.95	190	87.5	11.4	1.1
14Sil P1_A21	46.22	0.14	34.44	0.80	0.26	16.88	1.04	0.14	99.92	200	89.2	9.9	0.9
14Sil P1_A22	47.05	0.13	33.71	0.82	0.29	16.19	1.44	0.19	99.82	210	85.1	13.7	1.2
14Sil P1_A23	49.21	0.27	32.22	0.75	0.20	14.88	2.11	0.22	99.86	220	78.5	20.1	1.4
14Sil P1_A24	48.44	0.16	32.49	0.93	0.28	15.45	1.87	0.23	99.85	230	80.9	17.7	1.4
14Sil P1_A25	48.93	0.16	32.56	0.84	0.18	14.85	2.11	0.22	99.85	240	78.4	20.2	1.4
14Sil P1_A26	48.09	0.23	32.95	0.81	0.20	15.53	1.77	0.22	99.80	250	81.8	16.9	1.4
14Sil P1_A27	47.67	0.29	33.27	0.70	0.33	15.60	1.65	0.26	99.77	260	82.6	15.8	1.6
14Sil P1_A28	49.85	0.23	31.95	0.72	0.22	14.32	2.35	0.23	99.87	270	76.0	22.6	1.5
14Sil P1_A29	49.48	0.25	31.77	0.96	0.18	14.53	2.36	0.30	99.83	280	75.8	22.3	1.9
14Sil P1_A30	50.08	0.23	31.54	0.76	0.45	13.69	2.87	0.25	99.87	290	71.4	27.1	1.6
14Sil P1_A31	50.96	0.27	30.70	0.89	0.27	13.27	3.12	0.38	99.86	300	68.5	29.2	2.3
14Sil P1_A32	51.02	0.30	31.00	0.69	0.23	13.31	2.93	0.37	99.85	310	69.9	27.8	2.3
14Sil P1_A33	51.12	0.16	30.79	0.89	0.26	13.34	3.01	0.35	99.92	320	69.5	28.4	2.2
14Sil P1_A34	49.96	0.20	31.74	0.78	0.27	13.96	2.63	0.27	99.81	330	73.3	25.0	1.7
14Sil P1_A35	49.36	0.23	32.00	0.95	0.26	14.46	2.27	0.32	99.85	340	76.3	21.7	2.0
14Sil P1_A36	51.79	0.25	30.34	0.91	0.30	12.66	3.21	0.35	99.81	350	67.0	30.8	2.2
14Sil P1_A37	50.14	0.17	31.57	0.81	0.30	14.24	2.35	0.27	99.85	360	75.7	22.6	1.7
14Sil P1_A38	50.25	0.21	31.25	0.86	0.23	14.05	2.68	0.29	99.82	370	73.0	25.2	1.8
14Sil P1_A39	51.24	0.17	31.06	0.78	0.26	13.08	2.96	0.32	99.87	380	69.5	28.5	2.0
14Sil P1_A40	51.78	0.25	30.15	0.88	0.34	12.51	3.49	0.37	99.77	390	64.9	32.8	2.3
14Sil P1_A41	53.42	0.27	29.10	0.86	0.28	11.60	3.95	0.46	99.94	400	60.1	37.0	2.8

**Type 2**

Sample	SiO <sub>2</sub>	TiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	FeO	MgO	CaO	Na <sub>2</sub> O	K <sub>2</sub> O	Total	Distance (μm)	An%	Ab%	Or%
1Sil P2_A1	54.26	0.41	28.57	0.84	0.06	10.83	4.26	0.56	99.79	0	56.4	40.1	3.5
1Sil P2_A2	53.45	0.26	29.24	0.87	0.20	11.16	4.11	0.47	99.76	15	58.3	38.8	2.9
1Sil P2_A3	51.52	0.18	30.70	1.13	0.21	12.76	3.03	0.37	99.90	40	68.3	29.3	2.4
1Sil P2_A4	52.21	0.22	29.93	0.94	0.46	12.06	3.67	0.44	99.93	55	62.7	34.5	2.7
1Sil P2_A5	51.23	0.10	31.04	1.02	0.20	12.86	3.08	0.31	99.84	70	68.4	29.6	2.0
1Sil P2_A6	52.49	0.16	30.06	0.65	0.38	12.17	3.60	0.44	99.95	90	63.4	33.9	2.7
1Sil P2_A7	52.49	0.22	29.93	0.85	0.33	11.98	3.57	0.40	99.77	110	63.3	34.2	2.5
1Sil P2_A8	50.77	0.17	30.99	1.09	0.22	13.42	2.85	0.35	99.86	120	70.7	27.2	2.2
1Sil P2_A9	50.11	0.18	31.64	0.87	0.28	13.93	2.57	0.24	99.82	130	73.8	24.7	1.5
1Sil P2_A10	50.31	0.06	31.62	0.86	0.25	13.82	2.70	0.30	99.92	140	72.5	25.6	1.9
1Sil P2_A11	49.89	0.18	31.70	0.94	0.29	13.91	2.70	0.26	99.87	150	72.8	25.6	1.6
1Sil P2_A12	49.79	0.11	31.90	0.91	0.17	14.22	2.46	0.21	99.77	160	75.2	23.5	1.3
1Sil P2_A13	49.64	0.19	31.75	0.97	0.32	14.08	2.62	0.28	99.85	170	73.5	24.8	1.7
1Sil P2_A14	50.86	0.09	31.45	0.79	0.28	13.31	2.96	0.17	99.91	180	70.5	28.4	1.1
1Sil P2_A15	50.39	0.18	31.27	0.88	0.21	13.69	2.89	0.31	99.82	190	71.0	27.1	1.9
1Sil P2_A16	50.63	0.11	31.51	1.02	0.28	13.34	2.74	0.26	99.89	200	71.7	26.6	1.7
1Sil P2_A17	49.41	0.18	32.08	0.90	0.25	14.32	2.39	0.32	99.85	210	75.3	22.7	2.0
1Sil P2_A18	50.10	0.23	31.65	0.86	0.31	13.84	2.57	0.26	99.82	220	73.6	24.7	1.6
1Sil P2_A19	50.01	0.24	31.60	0.92	0.24	13.70	2.72	0.31	99.74	230	72.1	25.9	1.9
1Sil P2_A20	50.15	0.24	31.70	0.73	0.13	13.96	2.80	0.24	99.95	240	72.3	26.2	1.5
1Sil P2_A21	50.20	0.18	31.68	0.74	0.31	13.92	2.61	0.26	99.90	250	73.4	24.9	1.6
1Sil P2_A22	50.28	0.27	31.56	0.88	0.33	13.54	2.78	0.25	99.89	260	71.8	26.7	1.6
1Sil P2_A23	50.90	0.16	31.29	0.77	0.31	13.38	2.80	0.28	99.89	270	71.2	27.0	1.8
1Sil P2_A24	51.20	0.27	30.70	0.95	0.17	13.04	3.06	0.31	99.70	280	68.8	29.2	1.9
1Sil P2_A25	52.43	0.24	29.92	0.98	0.29	11.81	3.78	0.42	99.87	290	61.7	35.7	2.6
1Sil P2_A26	53.11	0.19	29.43	0.96	0.37	11.56	3.89	0.41	99.92	300	60.6	36.9	2.6
1Sil P2_A27	53.06	0.23	29.32	0.92	0.35	11.61	3.93	0.46	99.88	310	60.3	36.9	2.8
1Sil P2_A28	53.44	0.18	29.07	1.00	0.22	11.44	4.04	0.45	99.84	320	59.3	37.9	2.8
1Sil P2_A29	63.03	0.46	21.36	1.11	0.24	3.40	6.42	3.85	99.87	330	17.3	59.3	23.4

**Type 2**

Sample	SiO <sub>2</sub>	TiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	FeO	MgO	CaO	Na <sub>2</sub> O	K <sub>2</sub> O	Total	Distance (μm)	An%	Ab%	Or%
1Sil P3_A1	48.36	0.14	33.15	0.78	0.32	15.11	1.80	0.20	99.86	0	81.2	17.5	1.3
1Sil P3_A2	48.35	0.00	33.51	0.71	0.26	15.23	1.79	0.15	100.00	10	81.7	17.4	1.0
1Sil P3_A3	48.45	0.14	33.00	0.67	0.21	15.30	1.89	0.21	99.87	20	80.7	18.0	1.3
1Sil P3_A4	48.00	0.21	33.09	0.72	0.25	15.26	1.89	0.35	99.77	30	79.9	17.9	2.2
1Sil P3_A5	47.89	0.27	33.16	0.79	0.23	15.42	1.94	0.21	99.91	40	80.4	18.3	1.3
1Sil P3_A6	47.98	0.13	33.40	0.77	0.23	15.32	1.72	0.26	99.81	50	81.7	16.6	1.7
1Sil P3_A7	47.79	0.21	33.39	0.72	0.25	15.48	1.72	0.32	99.88	60	81.6	16.4	2.0

1Sil P3_A8	48.27	0.07	33.01	0.72	0.32	15.30	2.01	0.23	99.93	70	79.6	18.9	1.4
1Sil P3_A9	48.47	0.13	33.01	0.73	0.17	15.34	1.78	0.26	99.89	80	81.3	17.1	1.6
1Sil P3_A10	48.05	0.15	33.02	0.75	0.27	15.50	1.87	0.25	99.86	90	80.8	17.6	1.6
1Sil P3_A11	48.13	0.17	33.12	0.80	0.28	15.24	1.87	0.24	99.85	100	80.6	17.9	1.5
1Sil P3_A12	48.45	0.08	33.07	0.66	0.27	15.31	1.87	0.21	99.92	110	80.8	17.9	1.3
1Sil P3_A13	52.90	0.22	29.64	0.77	0.33	11.67	3.84	0.47	99.84	120	60.8	36.2	2.9
1Sil P3_A14	52.21	0.27	30.00	0.76	0.24	12.17	3.62	0.50	99.77	130	63.0	33.9	3.1
1Sil P3_A15	51.67	0.27	30.30	0.90	0.27	12.77	3.23	0.41	99.82	140	66.8	30.6	2.6
1Sil P3_A16	49.25	0.16	32.61	0.77	0.15	14.47	2.25	0.26	99.92	150	76.8	21.6	1.6
1Sil P3_A17	52.94	0.20	29.28	0.72	0.33	11.77	4.12	0.48	99.84	160	59.5	37.7	2.9
1Sil P3_A18	53.57	0.31	29.10	0.91	0.24	11.01	4.17	0.53	99.84	170	57.4	39.3	3.3
1Sil P3_A19	53.01	0.39	29.35	0.96	0.19	11.45	3.97	0.53	99.85	180	59.4	37.3	3.3
1Sil P3_A20	51.17	0.19	30.88	0.85	0.24	13.10	3.07	0.41	99.91	190	68.4	29.0	2.6
1Sil P3_A21	53.00	0.22	29.79	0.78	0.15	12.02	3.54	0.44	99.94	200	63.4	33.8	2.8
1Sil P3_A22	51.77	0.23	30.42	0.93	0.20	12.35	3.51	0.39	99.80	210	64.4	33.1	2.4
1Sil P3_A23	51.95	0.21	30.15	0.81	0.26	12.37	3.71	0.41	99.87	220	63.2	34.3	2.5
1Sil P3_A24	51.60	0.28	30.32	0.95	0.22	12.72	3.27	0.40	99.76	230	66.5	31.0	2.5
1Sil P3_A25	51.86	0.21	30.29	0.89	0.31	12.56	3.31	0.44	99.87	240	65.8	31.4	2.7
1Sil P3_A26	51.54	0.17	30.80	0.87	0.23	12.74	3.16	0.40	99.91	250	67.3	30.2	2.5
1Sil P3_A27	50.65	0.21	31.24	0.80	0.28	13.38	2.98	0.32	99.86	260	69.9	28.2	2.0
1Sil P3_A28	51.36	0.21	30.70	0.87	0.25	12.99	3.18	0.31	99.87	270	68.0	30.1	1.9
1Sil P3_A29	50.94	0.18	30.88	0.87	0.26	13.19	3.25	0.30	99.87	280	67.9	30.3	1.8
1Sil P3_A30	51.35	0.22	30.70	0.82	0.17	13.25	2.99	0.40	99.90	290	69.2	28.3	2.5
1Sil P3_A31	51.73	0.20	30.77	0.84	0.13	12.89	3.03	0.33	99.92	300	68.7	29.2	2.1
1Sil P3_A32	51.44	0.17	31.17	0.76	0.21	12.91	2.96	0.32	99.94	310	69.2	28.7	2.0
1Sil P3_A33	52.47	0.23	30.02	0.79	0.16	12.04	3.67	0.47	99.85	320	62.6	34.5	2.9
1Sil P3_A34	52.41	0.25	30.11	0.85	0.32	12.00	3.47	0.46	99.87	330	63.7	33.4	2.9
1Sil P3_A35	52.32	0.19	30.16	0.85	0.15	12.26	3.48	0.41	99.82	340	64.4	33.1	2.6
1Sil P3_A36	53.77	0.34	28.86	1.01	0.36	10.88	4.12	0.49	99.83	350	57.5	39.4	3.1
1Sil P3_A37	53.31	0.25	29.18	0.83	0.25	11.46	4.00	0.57	99.85	360	59.1	37.4	3.5
1Sil P3_A38	53.23	0.15	29.51	0.71	0.34	11.45	3.98	0.46	99.83	370	59.6	37.5	2.9
1Sil P3_A39	54.26	0.29	28.48	0.92	0.21	10.73	4.42	0.50	99.81	380	55.5	41.4	3.1
1Sil P3_A40	53.85	0.23	28.79	0.86	0.32	11.10	4.21	0.46	99.82	390	57.6	39.5	2.8
1Sil P3_A41	53.69	0.26	29.20	0.80	0.33	11.08	4.13	0.40	99.89	400	58.2	39.3	2.5
1Sil P3_A42	49.98	0.31	30.45	2.26	0.82	11.69	3.69	0.66	99.86	410	61.0	34.9	4.1
1Sil P3_A43	50.21	0.14	31.66	0.95	0.22	13.99	2.50	0.29	99.96	420	74.2	24.0	1.8
1Sil P3_A44	50.62	0.16	31.41	0.90	0.23	13.53	2.80	0.27	99.92	430	71.5	26.8	1.7
1Sil P3_A45	50.67	0.24	31.03	1.02	0.34	13.35	2.92	0.27	99.84	440	70.4	27.9	1.7
1Sil P3_A46	51.12	0.05	31.34	0.75	0.25	13.17	2.92	0.30	99.90	450	70.0	28.1	1.9
1Sil P3_A47	51.14	0.18	30.91	0.88	0.29	13.20	2.99	0.32	99.91	460	69.5	28.5	2.0
1Sil P3_A48	51.78	0.24	30.07	1.04	0.26	12.81	3.30	0.35	99.85	470	66.7	31.1	2.2
1Sil P3_A49	52.46	0.21	30.00	0.94	0.32	12.02	3.56	0.37	99.88	480	63.6	34.1	2.3
1Sil P3_A50	53.73	0.28	29.02	0.98	0.24	11.14	4.07	0.44	99.90	490	58.5	38.7	2.8
1Sil P3_A51	54.57	0.22	28.43	0.91	0.32	10.58	4.29	0.60	99.92	500	55.5	40.7	3.7
1Sil P3_A52	57.37	0.35	26.08	0.98	0.29	8.50	5.37	0.90	99.84	510	44.1	50.4	5.6

**Type 2**

Sample	SiO <sub>2</sub>	TiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	FeO	MgO	CaO	Na <sub>2</sub> O	K <sub>2</sub> O	Total	Distance (µm)	An%	Ab%	Or%
5Cal P9_A1	47.07	0.17	33.71	0.87	0.24	16.05	1.51	0.26	99.88	0	84.1	14.3	1.6
5Cal P9_A2	47.60	0.21	32.94	0.98	0.28	15.84	1.70	0.25	99.80	10	82.4	16.0	1.5
5Cal P9_A3	47.28	0.23	33.39	0.90	0.32	16.01	1.46	0.23	99.82	20	84.6	14.0	1.4
5Cal P9_A4	47.36	0.18	33.15	0.98	0.24	16.03	1.57	0.24	99.75	30	83.7	14.8	1.5
5Cal P9_A5	47.97	0.10	33.02	0.93	0.22	15.81	1.64	0.21	99.90	40	83.1	15.6	1.3
5Cal P9_A6	47.70	0.00	33.33	0.94	0.28	15.68	1.76	0.22	99.91	50	82.0	16.7	1.4
5Cal P9_A7	47.83	0.14	33.41	0.90	0.23	15.55	1.64	0.22	99.92	60	82.8	15.8	1.4
5Cal P9_A8	47.46	0.06	33.43	0.95	0.26	16.01	1.54	0.19	99.90	70	84.2	14.6	1.2
5Cal P9_A9	47.65	0.17	33.23	0.87	0.28	15.90	1.58	0.21	99.89	80	83.6	15.0	1.3
5Cal P9_A10	47.25	0.19	33.57	1.00	0.27	15.65	1.66	0.18	99.77	90	82.9	15.9	1.1
5Cal P9_A11	48.01	0.11	32.98	1.02	0.20	15.49	1.84	0.20	99.85	100	81.3	17.5	1.2
5Cal P9_A12	46.91	0.08	33.52	0.96	0.34	16.25	1.53	0.23	99.82	110	84.2	14.4	1.4
5Cal P9_A13	47.67	0.15	33.56	0.80	0.26	15.74	1.53	0.22	99.93	120	83.9	14.8	1.4
5Cal P9_A14	47.65	0.19	33.15	1.00	0.21	15.77	1.63	0.23	99.83	130	83.0	15.5	1.4
5Cal P9_A15	48.64	0.15	32.67	1.01	0.25	14.91	2.04	0.25	99.92	140	78.9	19.5	1.6
5Cal P9_A16	47.96	0.12	33.27	0.84	0.30	15.41	1.81	0.17	99.88	150	81.6	17.3	1.1
5Cal P9_A17	48.40	0.23	32.60	0.93	0.30	15.13	1.99	0.28	99.86	160	79.4	18.9	1.7
5Cal P9_A18	48.41	0.30	32.14	1.07	0.28	14.23	2.35	1.07	99.85	170	72.0	21.5	6.4
5Cal P9_A19	48.57	0.18	32.53	0.95	0.27	15.24	1.73	0.42	99.89	180	80.8	16.6	2.7
5Cal P9_A20	46.95	0.12	33.74	0.90	0.29	16.41	1.24	0.19	99.84	190	86.9	11.9	1.2
5Cal P9_A21	46.69	0.14	34.06	0.87	0.22	16.59	1.14	0.14	99.85	200	88.2	11.0	0.9
5Cal P9_A22	46.59	0.16	33.84	0.92	0.39	16.49	1.36	0.17	99.92	210	86.1	12.8	1.1
5Cal P9_A23	47.94	0.17	33.17	0.92	0.22	15.59	1.64	0.22	99.87	220	82.8	15.8	1.4
5Cal P9_A24	47.33	0.22	33.22	0.92	0.33	15.92	1.69	0.20	99.83	230	82.8	15.9	1.2
5Cal P9_A25	47.05	0.15	33.78	0.89	0.30	16.07	1.41	0.19	99.84	240	85.3	13.5	1.2
5Cal P9_A26	47.61	0.07	33.32	0.92	0.34	15.70	1.70	0.22	99.88	250	82.5	16.2	1.4
5Cal P9_A27	47.88	0.14	33.22	0.83	0.26	15.74	1.65	0.22	99.94	260	82.9	15.7	1.4
5Cal P9_A28	47.43	0.19	33.34	1.01	0.29	15.88	1.42	0.20	99.76	270	85.0	13.8	1.3
5Cal P9_A29	47.25	0.05	33.78	0.90	0.25	16.04	1.45	0.17	99.89	280	85.0	13.9	1.1
5Cal P9_A30	48.03	0.14	33.11	0.88	0.31	15.38	1.77	0.25	99.87	290	81.5	17.0	1.6
5Cal P9_A31	48.17	0.16	32.79	0.85	0.30	15.37	1.95	0.25	99.84	300	80.1	18.4	1.6
5Cal P9_A32	47.91	0.17	33.22	0.89	0.29	15.36	1.83	0.20	99.87	310	81.2	17.5	1.3
5Cal P9_A33	48.11	0.10	33.04	0.90	0.35	15.51	1.73	0.17	99.91	320	82.3	16.6	1.1
5Cal P9_A34	47.68	0.14	33.29	0.88	0.39	15.67	1.68	0.19	99.92	330	82.8	16.1	1.2
5Cal P9_A35	47.61	0.16	33.21	0.95	0.27	15.84	1.61	0.23	99.88	340	83.2	15.3	1.4
5Cal P9_A36	46.97	0.13	33.62	1.00	0.19	16.05	1.54	0.24	99.74	350	83.9	14.6	1.5
5Cal P9_A37	48.14	0.22	32.72	0.93	0.33	15.33	1.76	0.28	99.71	360	81.3	16.9	1.8

5Cal P9_A38	48.01	0.18	32.73	0.96	0.27	15.51	1.86	0.29	99.81	370	80.7	17.5	1.8
5Cal P9_A39	48.12	0.25	32.68	1.03	0.41	15.24	1.93	0.24	99.90	380	80.1	18.4	1.5
5Cal P9_A40	47.67	0.09	33.47	0.94	0.27	15.57	1.64	0.16	99.81	390	83.1	15.8	1.0
5Cal P9_A41	47.82	0.20	33.49	0.85	0.19	15.67	1.48	0.30	100.00	400	83.8	14.3	1.9
5Cal P9_A42	47.61	0.12	33.44	0.91	0.24	15.93	1.42	0.21	99.88	410	85.0	13.7	1.3
5Cal P9_A43	47.68	0.05	33.22	0.87	0.28	15.79	1.72	0.22	99.83	420	82.4	16.2	1.4
5Cal P9_A44	47.54	0.22	33.36	0.88	0.20	15.83	1.59	0.21	99.83	430	83.5	15.2	1.3
5Cal P9_A45	47.58	0.13	33.26	1.01	0.22	15.77	1.53	0.21	99.71	440	83.9	14.7	1.3
5Cal P9_A46	54.71	0.12	28.84	0.64	0.28	10.69	4.29	0.43	100.00	450	56.4	40.9	2.7
5Cal P9_A47	53.92	0.43	28.46	1.10	0.28	10.96	4.06	0.53	99.74	460	57.9	38.8	3.3
5Cal P9_A48	54.70	0.29	28.58	0.76	0.23	10.62	4.19	0.53	99.90	470	56.4	40.3	3.4
5Cal P9_A49	54.33	0.19	28.61	0.94	0.18	10.70	4.33	0.54	99.82	480	55.8	40.9	3.4
5Cal P9_A50	54.57	0.25	28.27	0.90	0.37	10.56	4.43	0.52	99.87	490	55.0	41.8	3.2
5Cal P9_A51	54.66	0.24	28.14	0.78	0.31	10.61	4.55	0.58	99.87	500	54.3	42.2	3.5
5Cal P9_A52	53.86	0.26	28.87	0.93	0.28	11.07	4.08	0.52	99.87	510	58.0	38.7	3.2
5Cal P9_A53	54.21	0.22	28.89	0.82	0.16	10.98	4.13	0.49	99.90	520	57.7	39.3	3.1
5Cal P9_A54	54.15	0.19	28.68	0.84	0.22	11.29	4.01	0.47	99.85	530	59.1	38.0	2.9
5Cal P9_A55	53.88	0.21	28.78	0.89	0.30	11.20	4.14	0.46	99.86	540	58.2	38.9	2.8
5Cal P9_A56	51.92	0.17	30.58	0.93	0.28	12.57	3.04	0.31	99.80	550	68.2	29.8	2.0
5Cal P9_A57	52.36	0.25	30.08	0.99	0.28	12.07	3.49	0.36	99.88	560	64.2	33.6	2.3
5Cal P9_A58	53.14	0.27	29.09	0.96	0.34	12.03	3.65	0.44	99.92	570	62.8	34.5	2.7
5Cal P9_A59	53.40	0.14	29.37	0.88	0.24	11.84	3.74	0.39	100.00	580	62.1	35.5	2.4
5Cal P9_A60	53.31	0.30	29.16	0.86	0.26	11.64	3.87	0.48	99.88	590	60.6	36.4	3.0
5Cal P9_A61	54.64	0.16	28.75	0.74	0.25	10.93	4.11	0.38	99.96	600	58.1	39.5	2.4
5Cal P9_A62	54.27	0.31	28.47	0.91	0.28	10.80	4.26	0.55	99.85	610	56.4	40.2	3.4
5Cal P9_A63	56.78	0.23	26.81	0.85	0.25	8.88	5.41	0.66	99.87	620	45.6	50.3	4.0

### Type 3

Sample	SiO <sub>2</sub>	TiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	FeO	MgO	CaO	Na <sub>2</sub> O	K <sub>2</sub> O	Total	Distance (µm)	An%	Ab%	Or%
5Cal P5_A1	54.09	0.12	28.98	0.78	0.35	10.86	4.22	0.45	99.85	0	57.1	40.1	2.8
5Cal P5_A2	49.61	0.23	32.11	0.67	0.25	14.37	2.37	0.30	99.91	15	75.6	22.6	1.9
5Cal P5_A3	53.32	0.23	29.37	0.73	0.27	11.54	3.96	0.52	99.94	30	59.7	37.1	3.2
5Cal P5_A4	49.25	0.17	32.38	0.82	0.21	14.45	2.27	0.26	99.81	45	76.6	21.8	1.6
5Cal P5_A5	50.44	0.23	31.39	0.74	0.22	13.65	2.72	0.36	99.75	60	71.8	25.9	2.3
5Cal P5_A6	50.45	0.26	31.63	0.64	0.28	13.66	2.62	0.35	99.89	75	72.6	25.2	2.2
5Cal P5_A7	49.91	0.13	32.15	0.77	0.20	14.06	2.42	0.25	99.89	90	75.0	23.4	1.6
5Cal P5_A8	50.10	0.15	31.92	0.67	0.33	14.05	2.36	0.27	99.85	105	75.4	22.9	1.7
5Cal P5_A9	55.21	0.20	28.20	0.71	0.30	9.88	4.76	0.56	99.82	120	51.6	45.0	3.5
5Cal P5_A10	54.05	0.26	28.93	0.71	0.31	10.76	4.30	0.49	99.81	135	56.3	40.7	3.1
5Cal P5_A11	55.24	0.37	27.85	0.79	0.26	9.83	4.84	0.59	99.77	150	51.0	45.4	3.6
5Cal P5_A12	54.33	0.18	29.06	0.71	0.25	10.60	4.25	0.50	99.88	165	56.1	40.7	3.2
5Cal P5_A13	48.75	0.04	32.99	0.73	0.18	15.09	2.00	0.17	99.95	180	79.8	19.1	1.1
5Cal P5_A14	54.38	0.18	28.91	0.76	0.22	10.76	4.14	0.53	99.88	195	57.0	39.7	3.3
5Cal P5_A15	54.11	0.13	29.09	0.68	0.22	10.79	4.29	0.58	99.89	210	56.1	40.3	3.6
5Cal P5_A16	53.09	0.20	29.65	0.72	0.26	11.60	3.86	0.45	99.83	225	60.7	36.5	2.8
5Cal P5_A17	50.78	0.18	31.09	0.89	0.37	13.15	3.02	0.35	99.83	240	69.1	28.7	2.2
5Cal P5_A18	51.20	0.22	31.28	0.71	0.26	13.05	2.88	0.34	99.94	255	69.9	27.9	2.2
5Cal P5_A19	50.46	0.16	31.70	0.66	0.21	13.66	2.78	0.29	99.92	270	71.8	26.4	1.8
5Cal P5_A20	49.39	0.16	32.28	0.77	0.16	14.46	2.36	0.29	99.87	285	75.8	22.4	1.8
5Cal P5_A21	50.29	0.18	31.71	0.79	0.25	13.67	2.72	0.28	99.89	300	72.2	26.0	1.8
5Cal P5_A22	50.46	0.15	31.39	0.77	0.39	13.54	2.83	0.25	99.78	315	71.4	27.0	1.6
5Cal P5_A23	51.55	0.20	30.94	0.72	0.21	12.79	3.06	0.37	99.84	330	68.1	29.5	2.3
5Cal P5_A24	50.38	0.22	31.49	0.79	0.35	13.46	2.84	0.29	99.82	345	71.0	27.1	1.8
5Cal P5_A25	49.46	0.23	32.21	0.73	0.10	14.25	2.55	0.22	99.75	360	74.5	24.1	1.4
5Cal P5_A26	48.65	0.13	32.97	0.77	0.25	14.98	1.99	0.20	99.94	375	79.6	19.1	1.3
5Cal P5_A27	48.98	0.13	32.86	0.75	0.15	14.62	2.06	0.29	99.84	390	78.2	19.9	1.8
5Cal P5_A28	49.81	0.17	32.17	0.63	0.23	14.26	2.34	0.22	99.83	405	76.0	22.6	1.4
5Cal P5_A29	53.36	0.15	29.98	0.62	0.11	11.61	3.63	0.43	99.89	420	62.1	35.1	2.7
5Cal P5_A30	53.17	0.22	29.64	0.69	0.25	11.75	3.76	0.41	99.89	435	61.7	35.7	2.6
5Cal P5_A31	53.23	0.16	29.74	0.69	0.23	11.48	3.84	0.47	99.84	450	60.5	36.6	2.9
5Cal P5_A32	53.22	0.14	29.44	0.72	0.30	11.70	3.83	0.48	99.83	465	60.9	36.1	3.0
5Cal P5_A33	53.82	0.21	29.19	0.73	0.23	11.13	4.04	0.50	99.85	480	58.5	38.4	3.1
5Cal P5_A34	55.45	0.11	28.25	0.71	0.30	9.93	4.67	0.44	99.86	495	52.5	44.7	2.8
5Cal P5_A35	53.96	0.18	28.60	1.02	0.32	10.42	4.14	1.26	99.90	510	53.7	38.6	7.7
5Cal P5_A36	50.97	0.21	31.01	0.89	0.40	13.06	3.01	0.37	99.92	525	68.9	28.7	2.3
5Cal P5_A37	50.21	0.21	31.32	0.99	0.37	13.48	2.88	0.33	99.79	540	70.6	27.3	2.1
5Cal P5_A38	49.21	0.15	32.18	0.90	0.21	14.54	2.29	0.23	99.71	555	76.7	21.9	1.4
5Cal P5_A39	48.47	0.16	32.74	0.90	0.36	14.97	1.98	0.24	99.82	570	79.5	19.0	1.5
5Cal P5_A40	53.06	0.23	29.59	1.02	0.09	12.03	3.50	0.40	99.92	585	63.9	33.6	2.5
5Cal P5_A41	54.57	0.32	28.37	0.98	0.27	10.45	4.33	0.52	99.81	600	55.3	41.4	3.3
5Cal P5_A42	59.58	0.34	25.13	0.98	0.07	6.12	6.09	1.52	99.83	615	32.3	58.2	9.6

### Type 3

Sample	SiO <sub>2</sub>	TiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	FeO	MgO	CaO	Na <sub>2</sub> O	K <sub>2</sub> O	Total	Distance (µm)	An%	Ab%	Or%
5Cal P7_A1	49.04	0.24	32.42	0.87	0.31	14.45	2.18	0.25	99.76	0	77.3	21.1	1.6
5Cal P7_A2	48.41	0.13	33.16	0.77	0.19	15.31	1.77	0.20	99.94	15	81.6	17.1	1.3
5Cal P7_A3	48.12	0.25	33.16	0.77	0.27	15.13	1.86	0.21	99.77	30	80.7	18.0	1.3
5Cal P7_A4	48.02	0.11	33.45	0.81	0.25	15.43	1.61	0.21	99.89	45	83.0	15.7	1.3
5Cal P7_A5	48.62	0.24	32.70	0.83	0.23	14.98	1.92	0.28	99.80	60	79.7	18.5	1.8
5Cal P7_A6	48.49	0.15	32.93	0.82	0.24	15.04	1.90	0.27	99.84	75	80.0	18.3	1.7
5Cal P7_A7	53.44	0.29	29.22	0.80	0.32	11.18	4.11	0.49	99.85	90	58.2	38.7	3.0
5Cal P7_A8	48.41	0.22	33.20	0.69	0.17	15.08	1.88	0.25	99.90	105	80.3	18.1	1.6
5Cal P7_A9	49.26	0.13	32.67	0.77	0.25	14.32	2.31	0.22	99.93	120	76.3	22.3	1.4
5Cal P7_A10	52.53	0.16	30.04	0.76	0.23	12.18	3.55	0.41	99.86	135	63.8	33.6	2.6
5Cal P7_A11	52.55	0.15	30.00	0.87	0.35	11.98	3.61	0.36	99.87	150	63.2	34.5	2.3

5Cal P7_A12	49.05	0.22	32.59	0.81	0.18	14.64	2.15	0.29	99.93	165	77.6	20.6	1.8
5Cal P7_A13	48.96	0.10	32.92	0.71	0.24	14.67	2.10	0.21	99.91	180	78.4	20.3	1.3
5Cal P7_A14	49.39	0.13	32.52	0.70	0.27	14.46	2.21	0.19	99.87	195	77.4	21.4	1.2
5Cal P7_A15	53.81	0.15	29.50	0.60	0.22	10.94	4.28	0.41	99.91	210	57.1	40.4	2.5
5Cal P7_A16	50.08	0.14	31.94	0.75	0.23	13.71	2.75	0.26	99.86	225	72.2	26.2	1.6
5Cal P7_A17	49.77	0.20	32.17	0.71	0.19	14.03	2.43	0.30	99.80	240	74.7	23.4	1.9
5Cal P7_A18	51.62	0.15	30.90	0.68	0.29	12.70	3.19	0.38	99.91	255	67.1	30.5	2.4
5Cal P7_A19	48.15	0.19	33.48	0.54	0.24	15.39	1.73	0.16	99.88	270	82.3	16.7	1.0
5Cal P7_A20	47.82	0.15	33.47	0.82	0.25	15.29	1.84	0.24	99.88	285	80.9	17.6	1.5
5Cal P7_A21	49.41	0.21	32.09	0.89	0.31	14.10	2.47	0.28	99.76	300	74.6	23.6	1.8
5Cal P7_A22	47.91	0.18	33.21	0.68	0.37	15.61	1.63	0.22	99.81	315	82.9	15.7	1.4
5Cal P7_A23	53.74	0.27	29.15	0.79	0.27	11.07	4.10	0.49	99.88	330	58.0	38.9	3.1
5Cal P7_A24	53.73	0.24	29.54	0.79	0.22	11.04	3.97	0.43	99.96	345	58.9	38.3	2.7
5Cal P7_A25	53.98	0.28	28.97	0.76	0.34	10.82	4.26	0.53	99.94	360	56.5	40.2	3.3
5Cal P7_A26	54.40	0.24	28.67	0.78	0.26	10.76	4.22	0.50	99.83	375	56.7	40.2	3.1
5Cal P7_A27	54.52	0.28	28.54	0.74	0.29	10.85	4.22	0.47	99.91	390	57.0	40.1	2.9
5Cal P7_A28	54.14	0.12	28.81	0.86	0.36	10.64	4.38	0.48	99.79	405	55.6	41.4	3.0
5Cal P7_A29	53.42	0.28	29.39	0.76	0.29	11.27	3.99	0.48	99.88	420	59.1	37.9	3.0
5Cal P7_A30	54.42	0.25	28.70	0.82	0.28	10.55	4.24	0.51	99.77	435	56.0	40.7	3.2
5Cal P7_A31	54.19	0.16	29.28	0.83	0.19	10.99	3.91	0.44	99.99	450	59.1	38.1	2.8
5Cal P7_A32	54.11	0.23	28.94	0.80	0.25	10.82	4.16	0.50	99.81	465	57.1	39.7	3.1
5Cal P7_A33	54.57	0.19	28.71	0.78	0.20	10.36	4.58	0.51	99.90	480	53.8	43.0	3.2
5Cal P7_A34	54.61	0.19	28.71	0.70	0.32	10.43	4.38	0.56	99.90	495	54.8	41.7	3.5
5Cal P7_A35	54.45	0.26	28.38	0.84	0.26	10.54	4.58	0.50	99.81	510	54.3	42.7	3.1
5Cal P7_A36	54.62	0.14	28.96	0.81	0.26	10.44	4.22	0.48	99.93	525	56.0	41.0	3.1
5Cal P7_A37	52.50	0.22	30.02	0.80	0.32	11.87	3.80	0.36	99.89	540	61.9	35.9	2.2
5Cal P7_A38	55.01	0.17	28.27	0.75	0.31	10.45	4.53	0.45	99.94	555	54.5	42.7	2.8
5Cal P7_A39	53.18	0.15	29.59	0.83	0.32	11.39	3.87	0.43	99.76	570	60.2	37.0	2.7
5Cal P7_A40	54.73	0.19	28.54	0.84	0.30	10.08	4.55	0.56	99.79	585	53.1	43.4	3.5
5Cal P7_A41	51.47	0.18	30.86	0.86	0.31	12.72	3.16	0.32	99.88	600	67.6	30.4	2.0
5Cal P7_A42	53.41	0.23	29.37	0.89	0.25	11.01	4.24	0.38	99.78	615	57.5	40.1	2.4
5Cal P7_A43	51.81	0.15	30.77	0.80	0.43	12.34	3.31	0.31	99.92	630	66.0	32.0	2.0
5Cal P7_A44	53.45	0.12	29.34	0.97	0.25	11.61	3.84	0.34	99.92	645	61.2	36.6	2.1
5Cal P7_A45	55.35	0.33	27.74	0.93	0.32	9.55	4.90	0.67	99.79	660	49.7	46.1	4.2
5Cal P7_A46	53.63	0.34	28.69	1.22	0.45	10.95	4.12	0.44	99.84	675	57.8	39.4	2.8
5Cal P7_A47	56.67	0.33	26.55	1.00	0.29	8.79	5.13	1.08	99.84	690	45.4	48.0	6.6

**Type 3**

Sample	SiO <sub>2</sub>	TiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	FeO	MgO	CaO	Na <sub>2</sub> O	K <sub>2</sub> O	Total	Distance (µm)	An%	Ab%	Or%
5Cal P8_A1	48.86	0.16	32.77	0.62	0.26	14.81	2.10	0.26	99.84	0	78.3	20.1	1.6
5Cal P8_A2	53.88	0.00	29.23	0.53	0.33	11.25	4.34	0.44	100.00	15	57.3	40.0	2.7
5Cal P8_A3	53.05	0.19	29.95	0.75	0.23	11.66	3.75	0.42	100.00	30	61.5	35.8	2.6
5Cal P8_A4	48.86	0.00	33.21	0.70	0.12	14.96	1.92	0.19	99.96	45	80.2	18.6	1.2
5Cal P8_A5	53.48	0.17	29.58	0.70	0.27	11.27	3.94	0.45	99.86	60	59.5	37.7	2.8
5Cal P8_A6	49.08	0.19	32.63	0.72	0.24	14.49	2.25	0.32	99.92	75	76.5	21.5	2.0
5Cal P8_A7	52.93	0.17	29.80	0.82	0.25	11.90	3.69	0.37	99.93	90	62.6	35.1	2.3
5Cal P8_A8	49.22	0.14	32.76	0.74	0.26	14.46	2.07	0.29	99.94	105	77.9	20.2	1.9
5Cal P8_A9	50.06	0.16	31.85	0.72	0.28	13.90	2.62	0.28	99.87	120	73.3	25.0	1.8
5Cal P8_A10	49.86	0.30	31.76	0.71	0.30	14.15	2.39	0.35	99.82	135	74.9	22.9	2.2
5Cal P8_A11	48.53	0.14	32.78	0.89	0.24	14.75	2.19	0.30	99.82	150	77.3	20.8	1.9
5Cal P8_A12	54.00	0.25	28.91	0.78	0.34	10.97	4.13	0.47	99.85	165	57.7	39.3	2.9
5Cal P8_A13	53.91	0.08	29.39	0.63	0.15	11.39	3.97	0.47	99.99	180	59.5	37.5	2.9
5Cal P8_A14	48.54	0.18	32.97	0.88	0.30	14.73	1.86	0.32	99.78	195	79.7	18.2	2.1
5Cal P8_A15	50.14	0.22	31.94	0.82	0.24	13.97	2.21	0.27	99.81	210	76.4	21.9	1.8
5Cal P8_A16	52.95	0.19	29.87	0.88	0.27	11.80	3.53	0.40	99.89	225	63.2	34.2	2.6
5Cal P8_A17	54.57	0.24	28.61	0.72	0.26	10.60	4.30	0.53	99.83	240	55.8	40.9	3.3
5Cal P8_A18	54.60	0.08	29.18	0.57	0.30	10.64	4.20	0.42	99.99	255	56.8	40.6	2.7
5Cal P8_A19	53.25	0.22	29.60	0.70	0.22	11.65	3.75	0.44	99.83	270	61.4	35.8	2.8
5Cal P8_A20	53.30	0.20	29.46	0.61	0.31	11.66	3.85	0.48	99.87	285	60.7	36.3	3.0
5Cal P8_A21	54.57	0.16	28.72	0.75	0.26	10.48	4.47	0.50	99.91	300	54.7	42.2	3.1
5Cal P8_A22	54.75	0.11	28.87	0.56	0.23	10.51	4.40	0.51	99.94	315	55.1	41.7	3.2
5Cal P8_A23	53.08	0.18	29.71	0.71	0.29	11.52	3.96	0.46	99.91	330	59.9	37.3	2.8
5Cal P8_A24	48.86	0.23	32.57	0.93	0.17	14.69	2.13	0.25	99.83	345	78.0	20.5	1.6
5Cal P8_A25	49.21	0.21	32.36	0.88	0.20	14.38	2.25	0.27	99.76	360	76.6	21.7	1.7
5Cal P8_A26	49.50	0.25	32.23	0.90	0.27	14.03	2.33	0.28	99.79	375	75.5	22.7	1.8
5Cal P8_A27	53.06	0.25	29.73	0.68	0.26	11.64	3.69	0.50	99.81	390	61.5	35.3	3.1
5Cal P8_A28	52.92	0.15	29.98	0.81	0.25	11.60	3.66	0.44	99.81	405	61.9	35.3	2.8
5Cal P8_A29	53.90	0.24	29.07	0.74	0.17	10.95	4.26	0.52	99.85	420	56.8	40.0	3.2
5Cal P8_A30	53.04	0.25	29.60	0.79	0.26	11.33	3.96	0.53	99.76	435	59.2	37.5	3.3
5Cal P8_A31	53.84	0.21	29.29	0.72	0.28	11.14	3.99	0.50	99.97	450	58.8	38.1	3.1
5Cal P8_A32	53.94	0.20	29.06	0.65	0.32	11.12	4.15	0.48	99.92	465	57.9	39.1	3.0
5Cal P8_A33	55.21	0.20	28.37	0.75	0.15	9.94	4.73	0.54	99.89	480	51.9	44.7	3.4
5Cal P8_A34	54.23	0.26	28.80	0.74	0.29	10.86	4.09	0.52	99.79	495	57.5	39.2	3.3
5Cal P8_A35	53.39	0.17	29.24	0.86	0.28	11.25	4.12	0.55	99.86	510	58.1	38.5	3.4
5Cal P8_A36	55.89	0.16	27.46	0.78	0.33	9.81	4.89	0.56	99.88	525	50.8	45.8	3.5
5Cal P8_A37	54.72	0.21	28.44	0.76	0.37	10.22	4.57	0.53	99.82	540	53.4	43.3	3.3
5Cal P8_A38	54.59	0.36	28.27	0.91	0.37	10.23	4.60	0.60	99.93	555	53.1	43.2	3.7
5Cal P8_A39	53.77	0.22	29.21	0.71	0.29	11.28	4.00	0.45	99.93	570	59.2	38.0	2.8
5Cal P8_A40	55.17	0.20	28.33	0.69	0.35	10.27	4.38	0.56	99.95	585	54.4	42.0	3.5
5Cal P8_A41	54.19	0.31	26.71	0.67	1.08	10.69	4.35	0.77	98.77	600	54.9	40.4	4.7
5Cal P8_A42	53.25	0.18	29.56	0.75	0.16	11.42	3.95	0.51	99.78	615	59.6	37.3	3.2
5Cal P8_A43	52.81	0.26	29.72	0.76	0.33	11.78	3.74	0.45	99.85	630	61.7	35.5	2.8
5Cal P8_A44	52.61	0.25	29.86	0.88	0.18	11.89	3.71	0.45	99.83	645	62.1	35.1	2.8
5Cal P8_A45	54.69	0.15	28.72	0.65	0.30	10.43	4.44	0.51	99.89	660	54.7	42.1	3.2
5Cal P8_A46	54.86	0.20	28.44	0.71	0.28	10.31	4.54	0.50	99.84	675	53.9	43.0	3.1

5Cal P8_A47	54.88	0.25	28.42	0.77	0.20	10.40	4.32	0.59	99.83	690	55.0	41.3	3.7
5Cal P8_A48	53.61	0.26	28.99	0.78	0.30	11.28	4.02	0.51	99.75	705	58.9	38.0	3.2
5Cal P8_A49	52.82	0.94	27.92	0.88	0.56	10.37	5.09	0.93	99.51	720	50.1	44.5	5.4
5Cal P8_A50	54.03	0.18	28.90	0.77	0.32	10.79	4.31	0.60	99.90	735	55.9	40.4	3.7
5Cal P8_A51	54.18	0.16	28.68	0.81	0.33	10.87	4.28	0.56	99.87	750	56.4	40.2	3.5
5Cal P8_A52	54.23	0.20	28.83	0.78	0.27	10.70	4.32	0.55	99.88	765	55.8	40.8	3.4
5Cal P8_A53	53.43	0.26	29.09	0.95	0.28	11.08	4.22	0.50	99.81	780	57.4	39.5	3.1
5Cal P8_A54	54.50	0.13	28.89	0.87	0.14	10.86	4.13	0.48	100.00	795	57.4	39.5	3.0
5Cal P8_A55	54.87	0.21	28.23	0.93	0.23	10.45	4.43	0.55	99.90	810	54.7	41.9	3.4
5Cal P8_A56	53.34	0.29	29.23	0.88	0.31	11.46	3.80	0.43	99.74	825	60.8	36.5	2.7
5Cal P8_A57	53.10	0.25	29.02	1.09	0.35	11.53	4.03	0.41	99.78	840	59.7	37.8	2.5

#### Type 4

Sample	SiO <sub>2</sub>	TiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	FeO	MgO	CaO	Na <sub>2</sub> O	K <sub>2</sub> O	Total	Distance (μm)	An%	Ab%	Or%
5Cal P11	54.17	0.25	28.86	0.79	0.23	11.05	4.07	0.50	99.92	0	58.1	38.7	3.1
5Cal P11	53.93	0.20	28.96	0.84	0.29	10.77	4.29	0.50	99.77	20	56.3	40.6	3.1
5Cal P11	53.78	0.26	29.22	0.75	0.26	10.93	4.09	0.53	99.82	40	57.6	39.0	3.3
5Cal P11	53.97	0.23	28.67	0.85	0.33	10.91	4.32	0.51	99.79	60	56.4	40.4	3.1
5Cal P11	54.09	0.12	29.04	0.66	0.32	10.64	4.50	0.50	99.87	80	54.9	42.1	3.1
5Cal P11	52.76	0.25	29.63	0.79	0.30	11.71	3.92	0.49	99.85	100	60.4	36.6	3.0
5Cal P11	53.30	0.22	29.37	0.86	0.31	11.36	3.85	0.53	99.79	120	59.9	36.8	3.3
5Cal P11	48.43	0.22	32.71	0.92	0.37	14.94	2.12	0.23	99.94	140	78.4	20.1	1.4
5Cal P11	54.09	0.21	29.18	0.75	0.27	10.85	4.13	0.52	100.00	160	57.3	39.5	3.3
5Cal P11	53.76	0.27	28.88	0.82	0.26	11.18	4.05	0.49	99.70	180	58.6	38.4	3.0
5Cal P11	53.91	0.22	28.72	0.95	0.40	10.79	4.26	0.52	99.77	200	56.5	40.3	3.2
5Cal P11	54.45	0.24	28.64	0.71	0.25	10.67	4.36	0.54	99.86	220	55.5	41.1	3.3
5Cal P11	53.03	0.20	29.59	0.92	0.20	11.83	3.63	0.38	99.77	240	62.7	34.9	2.4
5Cal P11	55.53	0.22	27.99	0.81	0.20	9.95	4.55	0.64	99.89	260	52.5	43.5	4.0
5Cal P11	54.18	0.20	28.97	0.67	0.37	10.65	4.30	0.49	99.84	280	56.0	40.9	3.1
5Cal P11	53.59	0.23	29.34	0.77	0.17	11.39	3.98	0.42	99.88	300	59.7	37.7	2.6
5Cal P11	53.18	0.24	29.30	0.88	0.16	11.59	4.03	0.51	99.88	320	59.5	37.4	3.1
5Cal P11	54.73	0.22	28.81	0.77	0.15	10.45	4.23	0.59	99.95	340	55.6	40.7	3.7
5Cal P11	53.93	0.29	28.82	0.96	0.19	11.04	4.16	0.48	99.87	360	57.6	39.4	3.0
5Cal P11	55.08	0.15	28.67	0.61	0.14	10.65	4.21	0.45	99.95	380	56.6	40.5	2.8
5Cal P11	53.86	0.05	29.28	0.77	0.27	11.09	4.09	0.44	99.86	400	58.3	38.9	2.7
5Cal P11	54.45	0.21	28.76	0.83	0.31	10.30	4.39	0.56	99.81	420	54.5	42.0	3.5
5Cal P11	54.46	0.30	28.72	0.81	0.25	10.44	4.33	0.55	99.86	440	55.1	41.4	3.5
5Cal P11	50.07	0.20	31.73	0.80	0.29	13.81	2.55	0.34	99.79	460	73.3	24.5	2.1
5Cal P11	49.53	0.30	31.93	0.91	0.36	14.06	2.61	0.31	100.00	480	73.4	24.7	1.9
5Cal P11	54.12	0.26	28.90	0.97	0.29	10.61	4.17	0.51	99.83	500	56.5	40.2	3.2
5Cal P11	55.78	0.20	27.80	0.83	0.23	9.76	4.67	0.56	99.83	520	51.7	44.8	3.5
5Cal P11	54.36	0.21	28.65	0.84	0.28	10.78	4.34	0.45	99.91	540	56.3	40.9	2.8
5Cal P11	54.62	0.27	28.61	0.94	0.27	10.37	4.31	0.51	99.89	560	55.3	41.5	3.2
5Cal P11	55.11	0.37	28.00	0.84	0.32	10.07	4.61	0.61	99.93	580	52.6	43.6	3.8
5Cal P11	54.23	0.27	28.72	0.82	0.33	10.76	4.19	0.49	99.80	600	56.8	40.1	3.1
5Cal P11	54.16	0.33	28.65	0.80	0.22	11.08	4.16	0.51	99.91	620	57.7	39.2	3.1
5Cal P11	53.96	0.24	29.23	0.94	0.12	10.87	4.03	0.51	99.90	640	57.9	38.8	3.2
5Cal P11	54.47	0.21	28.97	0.86	0.06	10.44	4.37	0.45	99.83	660	55.3	41.9	2.8

#### Type 4

Sample	SiO <sub>2</sub>	TiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	FeO	MgO	CaO	Na <sub>2</sub> O	K <sub>2</sub> O	Total	Distance (μm)	An%	Ab%	Or%
5Cal P2_A1	53.58	0.22	29.39	0.72	0.32	11.25	3.99	0.46	99.93	0	59.2	38.0	2.9
5Cal P2_A2	53.23	0.18	29.88	0.74	0.26	11.29	3.89	0.44	99.91	15	59.9	37.3	2.8
5Cal P2_A3	49.11	0.33	32.37	1.05	0.16	14.13	2.30	0.33	99.78	30	75.6	22.3	2.1
5Cal P2_A4	49.83	0.19	31.89	0.84	0.26	13.81	2.72	0.34	99.88	45	72.2	25.7	2.1
5Cal P2_A5	49.41	0.13	32.46	0.78	0.23	14.32	2.25	0.30	99.88	60	76.4	21.7	1.9
5Cal P2_A6	49.23	0.20	32.31	0.97	0.26	14.44	2.14	0.26	99.81	75	77.5	20.8	1.7
5Cal P2_A7	50.99	0.22	31.10	0.70	0.22	13.29	2.98	0.35	99.85	90	69.6	28.2	2.2
5Cal P2_A8	52.51	0.18	30.10	0.76	0.25	12.18	3.44	0.41	99.83	105	64.5	32.9	2.6
5Cal P2_A9	52.73	0.22	29.78	0.80	0.35	11.73	3.83	0.41	99.85	120	61.3	36.2	2.5
5Cal P2_A10	53.45	0.30	29.24	0.85	0.31	11.00	4.12	0.47	99.74	135	57.8	39.2	2.9
5Cal P2_A11	55.13	0.21	28.23	0.75	0.20	10.41	4.40	0.54	99.87	150	54.7	41.9	3.4
5Cal P2_A12	55.71	0.14	27.95	0.71	0.22	9.71	4.91	0.60	99.95	165	50.3	46.0	3.7
5Cal P2_A13	55.22	0.16	28.08	0.80	0.30	10.12	4.61	0.56	99.85	180	52.9	43.6	3.5
5Cal P2_A14	55.26	0.32	28.04	0.77	0.15	10.18	4.49	0.66	99.87	195	53.3	42.6	4.1
5Cal P2_A15	54.62	0.28	28.36	0.75	0.30	10.47	4.43	0.63	99.84	210	54.4	41.7	3.9
5Cal P2_A16	54.52	0.22	28.79	0.75	0.35	10.48	4.30	0.53	99.94	225	55.5	41.2	3.3
5Cal P2_A17	54.43	0.27	28.59	0.77	0.29	10.67	4.35	0.53	99.90	240	55.7	41.1	3.3
5Cal P2_A18	54.10	0.15	28.77	0.83	0.35	10.89	4.35	0.44	99.88	255	56.5	40.8	2.7
5Cal P2_A19	54.60	0.17	28.43	0.79	0.35	10.73	4.35	0.45	99.87	270	56.1	41.1	2.8
5Cal P2_A20	53.97	0.22	28.92	0.75	0.30	10.86	4.37	0.49	99.88	285	56.1	40.9	3.0
5Cal P2_A21	52.14	0.19	30.09	0.79	0.25	12.53	3.48	0.38	99.85	300	65.0	32.7	2.3
5Cal P2_A22	52.62	0.22	30.10	0.70	0.24	11.97	3.60	0.35	99.80	315	63.3	34.5	2.2
5Cal P2_A23	54.23	0.30	28.68	0.99	0.27	10.89	4.04	0.45	99.85	330	58.1	39.0	2.9

#### Type 5

Sample	SiO <sub>2</sub>	TiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	FeO	MgO	CaO	Na <sub>2</sub> O	K <sub>2</sub> O	Total	Distance (μm)	An%	Ab%	Or%
5Cal P6_A1	54.85	0.22	28.34	1.00	0.28	10.16	4.43	0.58	99.86	0	53.8	42.5	3.7
5Cal P6_A2	54.49	0.30	28.53	0.90	0.13	10.53	4.34	0.59	99.81	15	55.2	41.1	3.7
5Cal P6_A3	54.32	0.27	28.71	0.86	0.34	10.53	4.22	0.59	99.84	30	55.8	40.5	3.7
5Cal P6_A4	54.45	0.27	28.89	0.73	0.32	10.32	4.33	0.56	99.87	45	54.8	41.6	3.5
5Cal P6_A5	48.93	0.21	32.60	0.79	0.24	14.83	2.03	0.27	99.90	60	78.8	19.5	1.7
5Cal P6_A6	48.84	0.16	32.93	0.79	0.26	14.49	2.06	0.26	99.79	75	78.2	20.1	1.7
5Cal P6_A7	48.59	0.19	32.93	0.75	0.36	14.77	1.95	0.25	99.79	90	79.4	19.0	1.6
5Cal P6_A8	48.39	0.11	33.18	0.72	0.26	15.06	1.91	0.21	99.84	105	80.2	18.4	1.3

5Cal P6_A9	48.85	0.15	32.93	0.80	0.34	14.31	2.18	0.30	99.86	120	76.9	21.2	1.9
5Cal P6_A10	47.78	0.11	33.64	0.78	0.22	15.68	1.41	0.24	99.86	135	84.7	13.8	1.5
5Cal P6_A11	48.87	0.16	32.87	0.76	0.32	14.78	1.93	0.22	99.91	150	79.7	18.8	1.4
5Cal P6_A12	49.35	0.19	32.62	0.69	0.17	14.44	2.14	0.33	99.93	165	77.2	20.7	2.1
5Cal P6_A13	49.63	0.18	32.17	0.85	0.28	13.83	2.60	0.28	99.82	180	73.3	24.9	1.8
5Cal P6_A14	52.09	0.18	30.39	0.78	0.31	12.27	3.40	0.44	99.86	195	64.8	32.5	2.8
5Cal P6_A15	53.14	0.24	29.39	0.78	0.29	11.52	3.91	0.50	99.77	210	60.0	36.9	3.1
5Cal P6_A16	52.91	0.22	29.78	0.78	0.33	11.62	3.85	0.49	99.98	225	60.6	36.3	3.0
5Cal P6_A17	54.83	0.28	28.31	0.75	0.31	10.21	4.52	0.59	99.80	240	53.5	42.8	3.7
5Cal P6_A18	56.17	0.33	27.56	0.84	0.24	9.29	4.82	0.67	99.92	255	49.4	46.4	4.2
5Cal P6_A19	55.81	0.15	28.03	0.86	0.20	9.63	4.68	0.57	99.93	270	51.3	45.1	3.6
5Cal P6_A20	50.22	0.18	31.71	1.03	0.13	13.85	2.50	0.32	99.94	285	73.8	24.1	2.0
5Cal P6_A21	49.98	0.16	31.80	0.92	0.25	13.99	2.49	0.26	99.85	300	74.4	24.0	1.6
5Cal P6_A22	49.09	0.28	32.61	0.99	0.22	14.25	2.05	0.37	99.86	315	77.4	20.2	2.4
5Cal P6_A23	55.08	0.25	28.00	0.97	0.38	9.66	4.79	0.70	99.83	330	50.4	45.2	4.3

### Type 7

Sample	SiO <sub>2</sub>	TiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	FeO	MgO	CaO	Na <sub>2</sub> O	K <sub>2</sub> O	Total	Distance (μm)	An%	Ab%	Or%
1Sil P6_A1	52.08	0.16	30.39	0.89	0.22	12.52	3.34	0.33	99.93	0	66.0	31.9	2.1
1Sil P6_A2	51.88	0.24	30.37	0.86	0.37	12.45	3.32	0.33	99.82	10	66.0	31.9	2.1
1Sil P6_A3	51.37	0.19	30.87	0.87	0.31	12.90	3.14	0.32	99.97	20	68.0	30.0	2.0
1Sil P6_A4	51.80	0.19	30.43	0.91	0.16	12.62	3.30	0.36	99.77	30	66.3	31.4	2.3
1Sil P6_A5	51.06	0.17	31.02	0.99	0.26	12.97	3.09	0.34	99.90	40	68.4	29.5	2.1
1Sil P6_A6	51.02	0.30	30.94	0.94	0.29	12.94	3.08	0.30	99.81	50	68.6	29.5	1.9
1Sil P6_A7	51.18	0.23	30.91	0.94	0.33	13.00	2.89	0.35	99.83	60	69.7	28.0	2.2
1Sil P6_A8	51.62	0.20	30.66	0.61	0.20	12.99	3.25	0.34	99.87	70	67.4	30.5	2.1
1Sil P6_A9	51.82	0.15	30.73	0.84	0.29	12.39	3.31	0.35	99.88	80	65.9	31.9	2.2
1Sil P6_A10	51.40	0.17	30.63	0.93	0.22	13.11	3.12	0.32	99.90	90	68.5	29.5	2.0
1Sil P6_A11	50.72	0.26	31.15	0.87	0.33	13.15	2.98	0.33	99.79	100	69.4	28.5	2.1
1Sil P6_A12	50.87	0.22	31.24	0.79	0.29	13.06	2.99	0.35	99.81	110	69.1	28.6	2.2
1Sil P6_A13	50.98	0.14	31.11	0.80	0.28	13.02	3.18	0.30	99.81	120	68.1	30.1	1.9
1Sil P6_A14	51.37	0.16	30.85	0.89	0.10	13.14	3.03	0.33	99.87	130	69.1	28.8	2.1
1Sil P6_A15	50.63	0.24	31.11	0.79	0.39	13.35	3.02	0.24	99.77	140	69.9	28.6	1.5
1Sil P6_A16	50.54	0.26	31.42	0.86	0.30	13.39	2.76	0.27	99.80	150	71.6	26.7	1.7
1Sil P6_A17	50.80	0.21	31.43	0.80	0.24	13.19	2.87	0.25	99.79	160	70.6	27.8	1.6
1Sil P6_A18	52.08	0.16	30.55	0.65	0.31	12.58	3.29	0.26	99.88	170	66.8	31.6	1.6
1Sil P6_A19	51.99	0.15	30.59	0.76	0.16	12.54	3.37	0.33	99.89	180	65.9	32.0	2.1
1Sil P6_A20	51.75	0.31	30.56	0.75	0.29	12.52	3.36	0.35	99.89	190	65.8	32.0	2.2
1Sil P6_A21	52.07	0.19	30.47	0.69	0.28	12.62	3.29	0.34	99.95	200	66.5	31.4	2.1
1Sil P6_A22	51.50	0.10	31.03	0.77	0.25	12.80	3.10	0.32	99.87	210	68.1	29.9	2.0
1Sil P6_A23	51.51	0.14	30.97	0.70	0.25	12.73	3.27	0.33	99.90	220	66.9	31.1	2.1
1Sil P6_A24	51.54	0.24	30.69	0.75	0.27	12.81	3.23	0.32	99.85	230	67.3	30.7	2.0
1Sil P6_A25	51.19	0.27	30.72	0.83	0.25	12.95	3.17	0.32	99.70	240	67.9	30.1	2.0
1Sil P6_A26	51.58	0.36	30.70	0.84	0.22	12.73	3.09	0.32	99.84	250	68.1	29.9	2.0
1Sil P6_A27	51.52	0.14	30.42	1.06	0.29	12.71	3.32	0.41	99.87	260	66.2	31.3	2.5
1Sil P6_A28	52.07	0.17	30.37	0.88	0.28	12.53	3.25	0.33	99.88	270	66.6	31.3	2.1
1Sil P6_A29	51.67	0.17	30.74	0.87	0.26	12.88	3.13	0.28	100.00	280	68.2	30.0	1.8
1Sil P6_A30	51.34	0.21	30.58	0.87	0.31	13.00	3.21	0.30	99.82	290	67.8	30.3	1.9
1Sil P6_A31	51.76	0.21	30.49	0.85	0.47	12.36	3.41	0.31	99.86	300	65.4	32.6	2.0
1Sil P6_A32	52.14	0.00	30.64	0.55	0.31	12.60	3.51	0.25	100.00	310	65.5	33.0	1.5
1Sil P6_A33	51.91	0.26	30.33	0.93	0.36	12.13	3.60	0.34	99.86	320	63.7	34.2	2.1
1Sil P6_A34	51.75	0.12	30.79	0.92	0.23	12.41	3.31	0.28	99.81	330	66.2	32.0	1.8
1Sil P6_A35	51.82	0.30	30.12	0.97	0.18	12.62	3.36	0.37	99.74	340	65.9	31.8	2.3
1Sil P6_A36	52.36	0.19	30.13	0.75	0.33	12.43	3.42	0.32	99.93	350	65.4	32.6	2.0
1Sil P6_A37	51.00	0.12	31.19	0.85	0.19	13.34	2.97	0.24	99.90	360	70.2	28.3	1.5
1Sil P6_A38	51.23	0.10	30.88	0.90	0.29	12.89	3.21	0.33	99.83	370	67.5	30.4	2.1
1Sil P6_A39	49.52	0.10	32.22	0.91	0.16	14.16	2.48	0.27	99.82	380	74.6	23.7	1.7
1Sil P6_A40	49.82	0.14	31.88	0.93	0.30	13.99	2.46	0.25	99.77	390	74.7	23.8	1.6
1Sil P6_A41	51.69	0.15	30.75	0.88	0.25	12.39	3.36	0.29	99.76	400	65.8	32.3	1.8
1Sil P6_A42	50.60	0.15	31.24	0.93	0.25	13.48	2.93	0.28	99.86	410	70.5	27.7	1.7
1Sil P6_A43	50.60	0.13	31.40	0.81	0.30	13.53	2.73	0.29	99.79	420	71.9	26.3	1.8
1Sil P6_A44	51.07	0.17	31.08	0.88	0.17	13.27	2.88	0.30	99.82	430	70.4	27.7	1.9
1Sil P6_A45	50.09	0.13	31.81	0.79	0.29	13.88	2.69	0.25	99.93	440	72.9	25.6	1.6
1Sil P6_A46	49.53	0.19	32.11	0.92	0.22	14.19	2.40	0.30	99.86	450	75.1	23.0	1.9
1Sil P6_A47	50.24	0.08	31.87	0.83	0.22	14.01	2.48	0.23	99.96	460	74.6	23.9	1.5
1Sil P6_A48	50.59	0.20	31.18	0.88	0.33	13.58	2.87	0.22	99.85	470	71.3	27.3	1.4
1Sil P6_A49	50.49	0.20	31.42	0.87	0.40	13.57	2.72	0.24	99.91	480	72.3	26.2	1.5
1Sil P6_A50	51.99	0.25	30.12	0.85	0.38	12.72	3.27	0.31	99.89	490	66.9	31.1	1.9
1Sil P6_A51	50.89	0.17	31.31	0.78	0.34	13.09	2.99	0.35	99.92	500	69.2	28.6	2.2
1Sil P6_A52	50.95	0.12	31.38	0.80	0.22	13.43	2.72	0.26	99.88	510	72.0	26.4	1.7
1Sil P6_A53	51.79	0.18	30.65	0.81	0.29	12.69	3.16	0.28	99.85	520	67.7	30.5	1.8
1Sil P6_A54	53.19	0.21	29.60	0.80	0.17	11.84	3.70	0.35	99.86	530	62.5	35.3	2.2
1Sil P6_A55	54.55	0.22	28.54	0.94	0.19	10.57	4.43	0.45	99.89	540	55.3	41.9	2.8
1Sil P6_A56	53.59	0.09	29.19	0.84	0.27	11.31	4.15	0.43	99.87	550	58.5	38.8	2.6
1Sil P6_A57	54.85	0.28	28.35	0.84	0.23	10.37	4.39	0.63	99.94	560	54.4	41.7	3.9
1Sil P6_A58	55.13	0.17	28.11	0.92	0.34	9.96	4.72	0.56	99.91	570	52.0	44.6	3.5