

Point	WDS mass percent oxides		Major Elements																Name	SiO2	MgO	CaO	K2O	TiO2	P2O5	FeO	MnO	NiO	Na2O	Al2O3	Total
	Comment	SiO2	Mass MgO	CaO	Mass K2O	Mass TiO2	Mass P2O5	Mass FeO	Mass MnO	Mass NiO	Mass Na2O	Mass Al2O3	Mass Total																		
1	Si Anorthite Line 001	44.402	0.058	18.969	0.048	-0.005	0.014	0.467	-0.014	0.012	0.545	35.543	100.039	Spc_018 -- Si Anorthite	44.5975	0.09782	19.2901	0	0	0.10836	0.52636	0.07062	0.03755	0.60283	37.0461	102.377					
2	Si Anorthite Line 002	44.623	0.031	18.868	0.03	-0.022	-0.019	0.485	-0.021	-0.001	0.526	35.531	99.971	Spc_020 -- Si Anorthite	44.7237	0.12253	19.2865	0	0	0.16518	0.49254	0.06881	0.0387	0.58832	36.7063	102.373					
3	Si Anorthite Line 003	44.582	0.054	19.024	0.032	-0.027	0.014	0.521	-0.005	-0.003	0.523	35.421	100.19	Spc_021 -- Si Anorthite	44.8544	0.08472	19.4153	0	0.04387	0.13588	0.54051	0	0	0.57277	36.9665	102.614					
4	Si Anorthite Line 004	44.53	0.039	19.005	0.041	-0.021	0.022	0.475	-0.067	-0.011	0.49	35.481	100.029	Spc_022 -- Si Anorthite	44.6458	0.13032	19.1862	0	0.06185	0.17824	0.3849	0	0.1105	0.59164	36.8085	102.225					
5	Si Anorthite Line 005	44.678	0.039	18.936	0.023	-0.009	0.022	0.427	-0.028	-0.026	0.494	35.402	100.014	Spc_023 -- Si Anorthite	44.6702	0.13247	19.3682	0	0.11442	0.23895	0.46322	0.03357	0.04646	0.5516	36.981	102.637					
	Si Anorthite	44 <0.02	0.1939	0.03	-0.003	0.62	0.53	36.03	0.03					Si Anorthite	44 <0.02	0.1939	0.03	0.03						0.53	36.03	100.33					
	mean	44.565	0.0442	18.9574	0.0388	-0.006	0.0106	0.475	-0.0158	-0.0058	0.5156	35.4756	100.049	mean	44.6983	0.11357	19.3092	0	0.03503	0.16532	0.4815	0.0346	0.04664	0.57743	36.9396	102.401					
	SD	0.10511	0.01134	0.04777	0.00978	0.01987	0.01702	0.03385	0.03423	0.01399	0.02318	0.06332	0.0832	SD	0.09838	0.02212	0.08769	0	0.04787	0.04925	0.05181	0.03487	0.04	0.02012	0.11363	0.20957					
	Abs Err	0.5653	-0.1326	0.0048		-0.145		-0.0144	-0.5544	-0.2814				Abs Err	0.60834	0.21925	-0.03	-0.1385						0.04743	0.90556	2.07124					
	Rel Err	0.0128	-0.00695	0.16		-0.23387		-0.02717	-0.1539	-0.0028				Rel Err	0.01587	0.02149	-1	-0.22338						0.08049	0.02524	0.02064					
	Abs SSE	0.66317	Rel SSE	0.08148	Sum SD	0.50968	Sum RSD	5.62171	Abs SSE	1.38538	Rel SSE	0.05893	Sum SD	0.80437	Sum RSD	5.96437	Abs SSE	0.60948	Rel SSE	0.00514	Sum SD	0.60948	Sum RSD	5.79573							
6	Si SCOL Line 001	39.684	48.028	0.113	0.033	-0.006	0.01	9.855	0.102	0.379	0.006	0.03	98.234	Spc_024 -- Si SCOL	41.3663	49.2812	0.09625	0	0.02535	0.05315	0.10978	0.16835	0.35239	0.33592	0.89996	101.78					
7	Si SCOL Line 002	39.972	47.801	0.098	0.043	-0.006	0.026	9.919	0.147	0.375	0.017	0.009	98.401	Spc_025 -- Si SCOL	41.5715	49.3104	0.08296	0.00096	0.06288	0	0.04238	0.20409	0	0.00318	0.24803	0.3171	0.25895	0.07333	101.848		
8	Si SCOL Line 003	39.993	47.765	0.143	0.014	-0.009	0.063	9.531	0.082	0.359	0.006	0.033	97.98	Spc_026 -- Si SCOL	41.426	49.2033	0.11374	0.06808	0	0.10851	0.09205	0.46834	0.31017	0.10697	0.1697	0.10174					
9	Si SCOL Line 004	39.579	48.018	0.138	0.032	0.006	-0.006	9.694	0.141	0.324	0.004	0.022	97.959	Spc_027 -- Si SCOL	41.426	49.4392	0.07792	0	0.00434	0	0.98245	0.16073	0.34893	0.26785	0.07484	0.10178					
10	Si SCOL Line 005	39.695	48.429	0.092	0.027	-0.005	-0.002	9.824	0.145	0.337	0.018	0.025	98.585	Spc_028 -- Si SCOL	41.4132	49.0518	0.13067	0.02836	0	0.10447	0.12355	0.42455	0.33093	0.09015	0.10129						
	Si SCOL	40.81	49.42	<0.05		0.00	9.55	0.14	0.37				100.29	Si SCOL	40.81	49.42	<0.05		0.00	9.55	0.14	0.37				100.29					
	mean	39.7846	48.0082	0.1168	0.0298	-0.004	0.0182	9.7646	0.1134	0.3548	0.0102	0.0238	98.2304	mean	41.4406	49.2572	0.10031	0.01943	0.02419	0.01063	0.10589	0.14604	0.36404	0.30077	0.08705	101.81					
	SD	0.18639	0.2644	0.02302	0.01057	0.00579	0.02797	0.15419	0.0296	0.0286	0.06672	0.00931	0.2716	SD	0.07717	0.14288	0.02191	0.0297	0.02498	0.02377	0.07243	0.03773	0.08173	0.03559	0.01371	0.04789					
	Abs Err	-1.0254	-1.4118			0.0182	0.2146	-0.0166	-0.0152				0.2096	Abs Err	0.6306	-0.16281			0.01063	0.50886	0.00604	-0.00516			1.51978						
	Rel Err	-0.02513	-0.02857			0.02247	-0.11857	-0.04108					-0.02054	Rel Err	0.01545	-0.00329			0.05328	0.04313	-0.01394				0.01515						
	Abs SSE	3.09152	Rel SSE	0.0177	Sum SD	1.01342	Sum RSD	2.02489	Abs SSE	0.68328	Rel SSE	0.00514	Sum SD	0.60948	Sum RSD	5.79573															
11	Si Diopside a	55.983	17.973	25.436	0.021	0.015	0.014	0.224	0.009	-0.009	0.195	0.248	100.169	Spc_030 -- Si Diopside	55.6591	18.3141	25.7538	0	0.00917	0	0.22106	0.07113	0.09853	0.37124	0.37498	100.873					
12	Si Diopside b	56.019	17.912	25.485	0.032	0.014	0.022	0.196	0.09	-0.002	0.246	0.364	100.108	Spc_031 -- Si Diopside	55.7237	18.1493	25.6887	0	0.04238	0.20409	0	0.00318	0.24803	0.3171	0.25895	0.07333	101.848				
13	Si Diopside c	56.273	17.812	25.343	0.017	0.015	-0.022	0.304	-0.035	-0.027	0.24	0.306	100.226	Spc_032 -- Si Diopside	55.795	18.1448	25.5874	0	0.00133	0.14468	0.01807	0.06263	0.36463	0.4776	100.596						
14	Si Diopside d	55.793	17.75	25.568	0.08	0.003	0.089	0.255	0.069	-0.065	0.519	0.272	100.333	Spc_033 -- Si Diopside	56.0204	18.4608	25.7157	0.03772	0.09925	0	0.14107	0.00387	0.00649	0.34145	0.40786	101.235					
15	Si Diopside e	56.416	17.997	25.598	0.019	0.022	0.037	0.368	0.007	0.013	0.173	0.207	100.652	Spc_034 -- Si Diopside	55.7034	18.2743	25.6353	0	0.13044	0	0.2001	0.09037	0	0.33223	0.34625	100.734					
(preferred)	mean	55.81	17.79	25.28		0.025	0.04	0.25	0.11	0.11	0.19	0.25	99.53	mean	55.7803	18.2687	25.6762	0.00754	0.04804	0.00848	0.1822	0.03669	0.03417	0.35574	0.41353	100.812					
	SD	0.2471	0.10547	0.13658	0.02647	0.00811	0.04042	0.05276	0.013	0.02995	0.14	0.05947	0.21668	SD	0.14288	0.13097	0.06575	0.01687	0.06207	0.01895	0.03677	0.04134	0.04429	0.01204	0.05568	0.26058					
	Abs Err	0.2868	0.0988	0.166		-0.0206	0.0513	0.0246	0.1694	0.0766			0.0766	Abs Err	-0.02967	0.47867	0.39618						0.10574	0.30353	1.28157						
	Rel Err	0.00514	0.00555	0.00657		-0.0824	-0.325	0.0984	1.54	0.00771			0.00771	Rel Err	-0.00053	0.02691	0.01567						-0.2712	-0.08274	0.42295	2.75938	0.01288				
	Abs SSE	0.14947	Rel SSE	2.4938	Sum SD	1.11231	Sum RSD	4.11795	Abs SSE	0.49489	Rel SSE	7.07444	Sum SD	0.8802	Sum RSD	8.56997															
16	Si Hornblende Line 001	40.044	12.383	9.952	2.187	4.55	-0.014	10.822	0.106	0.027	2.487	14.362	96.906	Spc_035 -- Si Hornblende	40.4138	12.6993	10.0166	3.02226	4.83353	0.10791	10.6495	0.08288	0.11953	2.94862	15.0047	99.896					
17	Si Hornblende Line 002	39.913	12.358	9.797	2.131	4.639	0.036	10.841	0.136	0.029	2.615	14.278	96.773	Spc_036 -- Si Hornblende	40.4111	12.8626	10.0395	3.04877	4.9638	0.04651	10.1055	0.06468	0.11686	0.30752	15.0828	100.66					
18	Si Hornblende Line 003	40.087	12.352	9.927	2.114	4.669	0.028	10.79	0.045	0.039	2.542	14.246	96.839	Spc_037 -- Si Hornblende	40.6547	12.7344	10.0945	2.9749	5.04286	0.08248	10.2993	0.12536	0.02801	2.9118	15.0816	100.656					
19	Si Hornblende Line 004	40.069	12.389	9.933	2.111	4.623	0.008	10.816	0.086	0.045	2.48	14.266	96.846	Spc_038 -- Si Hornblende	40.5097	12.6973	10.0054	3.0519	5.02468	0	10.8545	0.15995	0	2.9315	15.1138	100.349					
20	Si Hornblende Line 005	40.127	12.333	9.945	2.14	4.607	0.014	10.707	0.113	-0.003	2.614	14.282	96.579	Spc_039 -- Si Hornblende	40.6311	12.754	9.98979	3.11031	5.10875	0.04376	10.3006	0.10083	0	3.04945	14.9807	100.991					
	Si Kakanui Hornblende	40.37	12.8	10.3	2.05	4.72	0.00	10.9193	0.09	2.6	14.9	100.02	mean	40.37	12.8	10.3	2.05	4.72	0.00	10.9193	0.09	2.6	14.9	100.02							
	mean	40.048	12.363	9.908	2.1606	4.676	0.044	10.7952	0.0972	0.0274	2.5476	14.2688	96.866	mean	40.5203	12.7495	10.0309	3.04195	4.99473	0.05613	10.6674	0.05288	0.10675	0.55287	15.0527	100.431					
	SD	0.08131	0.02303	0.06437	0.05226	0.04419	0.01936	0.05257	0.03422	0.01851	0.06562	0.0431	0.07764	SD	0.11166	0.06761	0.03875	0.04981	0.10387	0.04114	0.13611	0.03725	0.06072	0.05805	0.						