

	SEG-Dyke MOSTMEC=	SEG-Dyke =	SEG-Dyke =	SEG-Dyke =	SEG-Dyke =	SEG-Dyke MOSTMEC=	SEG-Dyke =	SEG-Dyke =	SEG-Dyke =	SEG-Dyke MOSTMEC=	SEG-Dyke =	SEG-Dyke =	SEG-Dyke =	SEG-Dyke =	SEG-Dyke =	SEG-Dyke =	SEG-Dyke =	SEG-Dyke =	SEG-Dyke =	SEG-Dyke =	SEG-Dyke =	
	1	2	3	4	5	1	2	4	5	1	2	3	4	5	6	7	8	1	2	3	4	5
Ta2O5	0	0	0.169	0	0.033	0	0.068	0	0.191	0.265	0.134	0.148	0.191	0	0	0.235	0	0	0	0.107	0.146	0.173
Nb2O5	0	0.133	0	0	0.027	0	0.062	0	0.071	0.027	0.062	0	0.009	0.089	0	0	0	0	0	0	0	0.08
ZrO2	0.015	0	0	0.003	0	0	0	0	0	0.028	0.015	0	0	0	0.028	0.013	0	0	0	0.003	0.01	0
GeO2	0	0.016	0	0.021	0	0	0.016	0	0.004	0	0	0	0	0.039	0	0	0.01	0.023	0	0.018	0.045	0
TiO2	0.006	0	0	0	0	0	0.023	0	0.002	0	0	0	0	0.021	0	0.021	0	0	0	0	0	0
SiO2	31.594	32.097	31.768	32.098	31.46	32.298	32.441	32.494	32.352	32.149	31.344	31.449	31.792	31.802	31.633	31.348	31.945	32.292	31.985	31.944	31.325	32.181
Sm2O3	0	0.101	0.11	0.339	0	0	0.091	0.119	0.073	0	0.007	0.027	0.124	0.147	0	0.036	0	0.25	0.164	0	0.132	0
Nd2O3	0.09	0	0.08	0.118	0	0	0	0.131	0	0	0	0	0	0.146	0	0.08	0.076	0.028	0.037	0.075	0.151	0
Pr2O3	0	0.037	0.368	0	0	0.552	0	0	0.081	0	0.108	0	0.33	0.042	0.154	0.154	0	0.253	0.77	0.736	0.045	0.032
Ce2O3	0.025	0.243	0.374	0	0.079	0	0	0.295	0.264	0.107	0.217	0	0	0.4	0	0.269	0.001	0.163	0.028	0	0	0
La2O3	0.014	0	0.054	0	0.131	0	0.063	0.074	0.123	0	0	0.073	0.013	0	0	0.073	0.063	0.076	0	0	0	0
Ga2O3	0.005	0	0	0.012	0.012	0.03	0	0	0	0.04	0	0	0.007	0.033	0	0.017	0	0	0.025	0	0.002	0
Fe2O3	0	0	0.0222	0.0078	0.0222	0.0333	0.0178	0.02	0	0	0	0.0078	0.0067	0.07	0	0	0.0133	0.04	0.0556	0.0122	0	0.0111
Mn2O3	0.0022	0	0.0178	0	0.0111	0	0	0	0	0	0	0	0.0534	0.0011	0.0434	0.0779	0	0.0056	0.0078	0	0.0022	0.0211
Cr2O3	0	0.01	0	0.015	0.007	0	0	0	0.014	0	0	0.01	0	0.01	0	0.024	0.021	0.028	0	0.001	0	0
V2O3	0	0.012	0.014	0	0.01	0.001	0.052	0	0	0.012	0	0.001	0.014	0	0	0.003	0	0	0	0.016	0.036	0.014
Sc2O3	0	0.004	0.005	0	0.004	0.015	0	0	0.006	0.004	0	0.003	0	0.015	0.003	0	0	0.01	0	0	0.009	0.015
Al2O3	55.755	55.794	56.329	55.996	56.025	55.881	55.592	55.809	55.845	55.435	55.72	55.861	55.664	55.905	55.722	56.053	55.514	56.015	55.806	55.953	56.153	55.787
BaO	0	0.07	0.055	0.004	0.019	0.055	0.029	0.04	0	0	0	0.019	0.096	0.018	0.026	0	0.048	0	0.018	0	0.085	0
ZnO	0.016	0	0.008	0	0.057	0.032	0.077	0	0.052	0	0	0	0.041	0.117	0	0.028	0.024	0.012	0.101	0	0	0.045
MgO	0	0	0	0	0	0	0	0	0	0	0	0	0.005	0	0	0	0	0	0	0	0	0
K2O	0.002	0	0.015	0	0	0	0.001	0	0	0	0.01	0.013	0.006	0.006	0.001	0.002	0.004	0.001	0.007	0.002	0	0.006
Na2O	0.01	0.025	0.007	0	0.01	0	0.005	0	0	0.011	0.002	0	0.051	0.016	0.016	0.012	0	0	0	0	0.018	0
F	12.313	11.765	10.227	10.729	11.601	11.793	12.938	12.584	11.949	11.492	11.351	11.744	11.533	11.678	11.267	10.504	12.446	11.094	11.891	11.788	12.165	12.088
H2O	3.8694	4.2137	4.9785	4.7173	4.2303	4.2324	3.6744	3.8695	4.1695	4.3058	4.3063	4.1374	4.2826	4.2537	4.3706	4.7643	3.8255	4.5841	4.1577	4.2083	3.9688	4.0626
Total#	103.7166	104.5207	104.6016	104.0601	103.7386	104.9227	105.1502	105.4355	105.1965	103.8758	103.2763	103.4932	104.2187	104.8088	103.264	103.7142	103.9908	104.8746	105.0531	104.8635	104.293	104.5158
O=F	-5.1847	-4.9539	-4.3063	-4.5177	-4.8849	-4.9657	-5.4478	-5.2988	-5.0314	-4.839	-4.7796	-4.9451	-4.8562	-4.9173	-4.7442	-4.4229	-5.2407	-4.6714	-5.007	-4.9636	-5.1223	-5.0899
Total	98.532	99.5668	100.2953	99.5424	98.8538	99.957	99.7023	100.1368	100.1651	99.0368	98.4968	98.5481	99.3625	99.8915	98.5198	99.2912	98.7501	100.2033	100.0461	99.8999	99.1706	99.4259
Group	T																					
Ge4+	0	0.0003	0	0.0004	0	0	0.0003	0	0.0001	0	0	0	0	0.0007	0	0	0.0002	0.0004	0	0.0003	0.0008	0
Si4+	0.9759	0.9828	0.9692	0.9816	0.9694	0.9858	0.9917	0.9905	0.9863	0.9882	0.97	0.9716	0.9776	0.9739	0.9765	0.9646	0.9848	0.9836	0.979	0.9776	0.9646	0.9852
Al3+	0.0241	0.0169	0.0308	0.018	0.0306	0.0142	0.0081	0.0095	0.0136	0.0118	0.03	0.0284	0.0224	0.0254	0.0235	0.0354	0.0151	0.016	0.021	0.0221	0.0346	0.0148
Total	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Group	A																					
Ta5+	0	0	0.0014	0	0.0003	0	0.0006	0	0.0016	0.0022	0.0011	0.0012	0.0016	0	0	0.002	0	0	0	0.0009	0.0012	0.0014
Nb5+	0	0.0018	0	0	0.0004	0	0.0009	0	0.001	0.0004	0.0009	0	0.0001	0.0012	0	0	0	0	0	0	0	0.0011
Zr4+	0.0002	0	0	0	0	0	0	0	0	0.0004	0.0002	0	0	0	0.0004	0.0002	0	0	0	0	0.0002	0
Ti4+	0.0001	0	0	0	0	0	0.0005	0	0	0	0	0	0	0.0005	0	0.0005	0	0	0	0	0	0
Sm3+	0	0.0011	0.0012	0.0036	0	0	0.001	0.0013	0.0008	0	0.0001	0.0003	0.0013	0.0016	0	0.0004	0	0.0026	0.0017	0	0.0014	0
Nd3+	0.001	0	0.0009	0.0013	0	0	0	0.0014	0	0	0	0	0	0.0016	0	0.0009	0.0008	0.0003	0.0004	0.0008	0.0017	0
Pr3+	0	0.0004	0.0041	0	0	0.0061	0	0	0.0009	0	0.0012	0	0.0037	0.0005	0.0017	0.0017	0	0.0028	0.0086	0.0082	0.0005	0.0004
Ce3+	0.0003	0.0027	0.0042	0	0.0009	0	0	0.0033	0.0029	0.0012	0.0025	0	0	0.0045	0	0.003	0	0.0018	0.0003	0	0	0
La3+	0.0002	0	0.0006	0	0.0015	0	0.0007	0.0008	0.0014	0	0	0.0008	0.0001	0	0	0.0008	0.0007	0.0009	0	0	0	0
Ga3+	0.0001	0	0	0.0002	0.0002	0.0006	0	0	0	0.0008	0	0	0.0001	0.0006	0	0.0003	0	0	0.0005	0	0	0
Fe3+	0	0	0.0005	0.0002	0.0005	0.0008	0.0004	0.0005	0	0	0	0.0002	0.0002	0.0016	0	0	0.0003	0.0009	0.0013	0.0003	0	0.0003

	SEG-Dyke MOSTMEG=	SEG-Dyke =	SEG-Dyke =	SEG-Dyke =	SEG-Dyke =	SEG-Dyke MOSTMEG=	SEG-Dyke =	SEG-Dyke =	SEG-Dyke =	SEG-Dyke =	SEG-Dyke =	SEG-Dyke MOSTMEG=	SEG-Dyke =	SEG-Dyke =	SEG-Dyke =	SEG-Dyke =	SEG-Dyke =	SEG-Dyke =	SEG-Dyke MOSTMEG=	SEG-Dyke MOSTMEG=	SEG-Dyke =	
	1	2	3	4	5	1	2	3	4	5	6	1	2	3	4	5	6	7	8	1	1	2
Ta2O5	0.005	0.327	0	0.144	0.351	0.099	0	0	0.031	0	0	0.018	0	0.062	0	0.077	0.168	0.001	0	0	0.114	0.25
Nb2O5	0	0.071	0	0.044	0	0.036	0	0.08	0	0.044	0.071	0	0.221	0	0.027	0	0	0	0.062	0.124	0	0
ZrO2	0	0.008	0.005	0.066	0	0.018	0	0.025	0.028	0	0.015	0	0.068	0.003	0.028	0.013	0.038	0	0	0	0.038	0.038
GeO2	0.008	0	0.052	0.032	0.067	0	0	0	0	0	0	0	0.043	0	0	0	0	0	0.034	0	0.015	0
TiO2	0	0	0	0.02	0	0	0	0.015	0.028	0	0.034	0	0	0	0	0.017	0.039	0	0.032	0.004	0	0.047
SiO2	31.906	32.005	31.31	31.125	31.985	31.867	32.211	32.287	32.572	32.457	32.583	31.73	31.345	32.181	31.52	31.64	31.757	31.952	31.844	32.181	32.238	32.175
Sm2O3	0	0.051	0.042	0.129	0	0	0	0	0	0	0	0.015	0	0.04	0	0	0	0.112	0.06	0.159	0	0
Nd2O3	0.123	0	0.024	0.118	0.08	0.071	0.071	0.038	0	0	0.155	0.033	0	0.089	0.014	0	0	0	0	0	0.047	0.056
Pr2O3	0	0	0	0	0	0	0.224	0	0	0	0.542	0.255	0.731	0.368	0.258	0	0.157	0	0	0.339	0	0.319
Ce2O3	0.052	0	0.377	0	0	0.031	0	0.074	0.188	0	0.162	0	0	0	0.101	0.134	0	0	0.031	0	0.243	0.033
La2O3	0	0	0	0	0	0	0.032	0.018	0	0.091	0	0	0	0.026	0.04	0.058	0	0	0.059	0.025	0.077	0.049
Ga2O3	0	0	0	0.037	0.035	0.04	0	0.027	0	0.047	0	0.01	0	0.067	0	0	0	0.002	0	0.005	0	0
Fe2O3	0.0133	0	0.0144	0.0178	0.0545	0	0	0	0.0133	0.0333	0	0	0.0167	0.0222	0.0356	0.01	0	0	0	0.0345	0.0278	0.0011
Mn2O3	0.0334	0	0	0.0412	0.0078	0.0423	0	0	0	0.0645	0	0	0.0145	0	0	0.0089	0	0	0	0.0223	0	0
Cr2O3	0.049	0	0	0.03	0	0.006	0.021	0.024	0.036	0	0.014	0	0	0.004	0	0.034	0.021	0	0	0	0	0.015
V2O3	0	0.022	0.019	0	0	0.019	0.009	0.034	0.019	0.01	0	0.009	0	0	0	0.023	0.01	0	0.029	0	0.03	0.005
Sc2O3	0	0	0	0	0.018	0.012	0	0.012	0.007	0.009	0.013	0.017	0	0.004	0	0	0	0	0.006	0.003	0	0.011
Al2O3	55.801	55.543	55.783	55.792	55.369	56.273	55.826	55.834	55.817	56.137	56.279	55.703	55.822	55.92	56.002	55.732	55.756	56.093	55.763	56.105	55.733	55.553
BaO	0	0.037	0.052	0	0.011	0	0	0.074	0	0	0.029	0	0.026	0	0	0.067	0	0	0.059	0.118	0.007	0
ZnO	0.024	0	0.102	0	0.065	0	0.016	0.008	0	0.081	0.032	0.037	0	0.02	0	0.012	0.118	0.11	0.045	0.028	0.061	0.109
MgO	0	0	0	0	0	0	0	0	0	0	0	0	0.014	0	0	0.002	0	0	0.008	0	0	0.005
K2O	0.003	0	0.007	0.002	0.001	0	0.004	0	0.006	0.006	0.017	0	0	0.004	0	0	0	0	0	0.003	0	0
Na2O	0.005	0.027	0.018	0.013	0.003	0.028	0.008	0.015	0.009	0	0	0	0	0	0.005	0.016	0.016	0	0.007	0.04	0.04	0.006
F	11.119	9.859	11.766	11.343	11.387	11.575	11.613	12.583	11.822	11.632	11.989	10.997	11.981	11.023	10.811	11.464	10.422	9.98	10.052	11.585	10.296	11.535
H2O	4.485	5.0765	4.118	4.3032	4.3395	4.3199	4.2896	3.8476	4.2364	4.3495	4.2314	4.5115	4.0465	4.5882	4.6112	4.2879	4.8043	5.0554	4.9862	4.3511	4.9224	4.3187
Total#	103.6267	103.0265	103.6895	103.2572	103.7737	104.4372	104.3246	104.9956	104.8127	104.9614	106.1664	103.3355	104.3286	104.4215	103.4527	103.5959	103.3063	103.3054	103.0772	105.1268	103.8892	104.5258
O=F	-4.6819	-4.1514	-4.9543	-4.7762	-4.7948	-4.8739	-4.8899	-5.2984	-4.9779	-4.8979	-5.0482	-4.6305	-5.0449	-4.6415	-4.5522	-4.8272	-4.3884	-4.2023	-4.2326	-4.8781	-4.3354	-4.8571
Total	98.9448	98.8752	98.7351	98.4809	98.979	99.5633	99.4346	99.6972	99.8348	100.0635	101.1181	98.705	99.2838	99.78	98.9005	98.7687	98.9179	99.1031	98.8445	100.2487	99.5538	99.6688
Group																						
Ge4+	0.0001	0	0.0009	0.0006	0.0012	0	0	0	0	0	0	0	0.0008	0	0	0	0	0	0.0006	0	0.0003	0
Si4+	0.9805	0.9841	0.9682	0.964	0.9848	0.9742	0.9859	0.9865	0.9923	0.9865	0.9853	0.9782	0.9662	0.9831	0.9706	0.9757	0.977	0.9789	0.9791	0.9802	0.9859	0.9856
Al3+	0.0194	0.0159	0.0309	0.0355	0.014	0.0258	0.0141	0.0135	0.0077	0.0135	0.0147	0.0218	0.033	0.0169	0.0294	0.0243	0.023	0.0211	0.0203	0.0198	0.0138	0.0144
Total	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Group																						
Ta5+	0	0.0027	0	0.0012	0.0029	0.0008	0	0	0.0003	0	0	0.0002	0	0.0005	0	0.0006	0.0014	0	0	0	0.0009	0.0021
Nb5+	0	0.001	0	0.0006	0	0.0005	0	0.0011	0	0.0006	0.001	0	0.0031	0	0.0004	0	0	0	0.0009	0.0017	0	0
Zr4+	0	0.0001	0.0001	0.001	0	0.0003	0	0.0004	0.0004	0	0.0002	0	0.001	0	0.0004	0.0002	0.0006	0	0	0	0.0006	0.0006
Ti4+	0	0	0	0.0005	0	0	0	0.0003	0.0006	0	0.0008	0	0	0	0	0.0004	0.0009	0	0.0007	0.0001	0	0.0011
Sm3+	0	0.0005	0.0004	0.0014	0	0	0	0	0	0	0	0.0002	0	0.0004	0	0	0	0.0012	0.0006	0.0017	0	0
Nd3+	0.0013	0	0.0003	0.0013	0.0009	0.0008	0.0008	0.0004	0	0	0.0017	0.0004	0	0.001	0.0002	0	0	0	0	0	0.0005	0.0006
Pr3+	0	0	0	0	0	0	0.0025	0	0	0	0.006	0.0029	0.0082	0.0041	0.0029	0	0.0018	0	0	0.0038	0	0.0036
Ce3+	0.0006	0	0.0043	0	0	0.0003	0	0.0008	0.0021	0	0.0018	0	0	0	0.0011	0.0015	0	0	0.0003	0	0.0027	0.0004
La3+	0	0	0	0	0	0	0.0004	0.0002	0	0.001	0	0	0	0.0003	0.0005	0.0007	0	0	0.0007	0.0003	0.0009	0.0006
Ga3+	0	0	0	0.0007	0.0007	0.0008	0	0.0005	0	0.0009	0	0.0002	0	0.0013	0	0	0	0	0	0.0001	0	0
Fe3+	0.0003	0	0.0003	0.0004	0.0013	0	0	0	0.0003	0.0008	0	0	0.0004	0.0005	0.0008	0.0002	0	0	0	0.0008	0.0006	0

	SEG-Dyke	SEG-Dyke	SEG-Dyke	SEG-Dyke	SEG-Dyke	SEG-Dyke	SEG-Dyke	SEG-Dyke	SEG-Dyke	SEG-Dyke	SEG-Dyke	SEG-Dyke	SEG-Dyke	SEG-Dyke	SEG-Dyke	SEG-Dyke	SEG-Dyke	SEG-Dyke	SEG-Dyke	SEG-Dyke	SEG-Dyke	SEG-Dyke
	=	MOSTMEC=	=	=	=	MOSTMEC=	=	=	=	=	MOSTMEC=	=	=	=	=	MOSTMEC=	MOSTMEC=	=	=	=	=	
	4	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	6	1	2	1	2	3
Ta2O5	0	0	0	0.075	0.083	0	0	0.062	0.004	0	0.372	0.015	0	0	0.091	0.298	0.425	0	0	0.031	0	0
Nb2O5	0.107	0	0.062	0	0	0.044	0	0	0	0	0	0	0	0	0.027	0.018	0.009	0.141	0	0.053	0.018	0
ZrO2	0	0	0	0.046	0	0.069	0	0	0	0	0.035	0.056	0	0	0	0.028	0	0	0	0.015	0.023	0
GeO2	0	0	0	0.014	0.021	0.015	0	0	0	0	0.038	0.004	0	0	0	0	0	0.022	0	0.055	0	0
TiO2	0	0.028	0.012	0.019	0	0	0	0.005	0	0	0.028	0	0	0	0	0.007	0.013	0	0.022	0	0	0
SiO2	32.289	32.83	32.729	32.643	32.929	32.713	32.388	32.566	32.43	32.422	32.664	32.997	32.949	32.954	33.091	32.712	32.885	32.343	32.35	32.221	32.385	32.328
Sm2O3	0	0	0	0	0.195	0	0	0	0	0.185	0.049	0.112	0.168	0	0.145	0	0	0.073	0	0.1	0	0.09
Nd2O3	0.033	0	0.094	0	0.024	0.122	0.159	0.187	0.023	0	0	0	0	0	0	0	0	0	0	0	0.07	0.198
Pr2O3	0	0	0.077	0	0.181	0.373	0.451	0.142	0	0	0.504	0	0	0.339	0	0.035	0	0	0	0.07	0	0
Ce2O3	0	0.165	0	0.238	0	0	0.134	0.072	0	0.206	0	0.186	0.186	0	0.108	0.077	0.186	0.001	0.11	0.008	0	0
La2O3	0	0.071	0	0	0	0	0.134	0	0.022	0	0.113	0.019	0.087	0.011	0	0	0.047	0.028	0	0	0	0
Ga2O3	0.037	0	0	0	0.029	0	0	0.012	0.012	0.002	0.037	0	0	0.007	0.015	0	0	0	0.017	0	0	0
Fe2O3	0.0422	0.0156	0.0011	0.0122	0.0067	0	0	0	0.0333	0.0233	0	0.0422	0.0256	0.0144	0.0289	0.0133	0.0256	0.0367	0.0033	0.0022	0.0445	0.0122
Mn2O3	0.0189	0.0067	0	0.0111	0.0078	0.0334	0	0	0	0	0	0.0045	0.0033	0	0.03	0.0367	0.0189	0.0623	0	0.059	0	0.0189
Cr2O3	0	0	0.03	0	0.011	0	0.015	0	0	0.012	0.002	0.016	0	0	0	0.012	0	0	0	0	0	0
V2O3	0.001	0.013	0	0.055	0.016	0.006	0.001	0	0	0	0	0	0.014	0	0	0	0	0.016	0.006	0.033	0.004	0.01
Sc2O3	0	0	0.001	0	0	0	0	0	0	0	0.019	0.021	0	0.003	0	0.009	0	0.007	0	0.003	0.017	0
Al2O3	55.437	56.926	56.614	56.613	56.98	56.76	56.228	56.173	56.06	55.967	55.881	57.209	57.107	56.932	57.028	57.104	57.132	55.784	55.958	56.052	55.96	55.783
BaO	0.048	0.04	0.048	0	0.029	0.015	0.022	0.026	0	0.029	0.004	0.015	0.015	0.004	0.081	0.051	0.033	0	0	0	0.033	0.063
ZnO	0	0	0.097	0	0.137	0.157	0	0.077	0	0	0	0.052	0.092	0.08	0.105	0	0.04	0	0.032	0.036	0	0
MgO	0.009	0.008	0	0.006	0	0	0	0	0	0	0	0.007	0	0.007	0	0.002	0	0	0	0	0	0.008
K2O	0.011	0	0.003	0.007	0.014	0	0	0	0.006	0	0.016	0	0.014	0.019	0.014	0.003	0	0.009	0.009	0.005	0.004	0
Na2O	0	0.001	0.032	0.042	0.03	0.007	0.017	0.003	0	0.011	0.025	0.032	0.017	0.005	0.009	0	0	0.015	0.006	0.018	0.016	0
F	10.703	11.594	10.527	11.707	10.44	10.915	12.38	12.071	12.13	12.265	12.044	10.422	10.746	11.001	10.458	10.942	10.656	12.403	12.659	11.251	11.458	11.401
H2O	4.692	4.4897	4.9565	4.3911	5.0712	4.8002	4.007	4.1585	4.0862	4.0229	4.1813	5.1064	4.9339	4.7903	5.0821	4.8149	4.9808	3.9362	3.8195	4.497	4.3953	4.3996
Total#	103.4281	106.188	105.2836	105.8795	106.2047	106.0296	105.936	105.5545	104.8065	105.1453	106.0123	106.3161	106.3578	106.1667	106.313	106.163	106.4513	104.8772	104.9918	104.5092	104.4277	104.3117
O=F	-4.5067	-4.8819	-4.4326	-4.9295	-4.396	-4.596	-5.2129	-5.0828	-5.1076	-5.1645	-5.0714	-4.3884	-4.5248	-4.6322	-4.4036	-4.6074	-4.4869	-5.2226	-5.3304	-4.7375	-4.8246	-4.8006
Total	98.9214	101.3061	100.851	100.95	101.8087	101.4336	100.7231	100.4717	99.6989	99.9808	100.9409	101.9277	101.833	101.5345	101.9094	101.5556	101.9643	99.6546	99.6615	99.7717	99.6031	99.5111
Group																						
Ge4+	0	0	0	0.0002	0.0004	0.0003	0	0	0	0	0.0007	0.0001	0	0	0	0	0	0.0004	0	0.001	0	0
Si4+	0.9913	0.9857	0.9865	0.9845	0.9852	0.9833	0.9832	0.9881	0.9884	0.9881	0.9901	0.9847	0.9851	0.9875	0.9882	0.9805	0.9828	0.9879	0.9876	0.9827	0.988	0.9886
Al3+	0.0087	0.0143	0.0135	0.0153	0.0144	0.0165	0.0168	0.0119	0.0116	0.0119	0.0092	0.0153	0.0149	0.0125	0.0118	0.0195	0.0172	0.0118	0.0124	0.0164	0.012	0.0114
Total	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Group																						
Ta5+	0	0	0	0.0006	0.0007	0	0	0.0005	0	0	0.0031	0.0001	0	0	0.0007	0.0024	0.0035	0	0	0.0003	0	0
Nb5+	0.0015	0	0.0008	0	0	0.0006	0	0	0	0	0	0	0	0	0.0004	0.0002	0.0001	0.0019	0	0.0007	0.0002	0
Zr4+	0	0	0	0.0007	0	0.001	0	0	0	0	0.0005	0.0008	0	0	0	0.0004	0	0	0	0.0002	0.0003	0
Ti4+	0	0.0006	0.0003	0.0004	0	0	0	0.0001	0	0	0.0006	0	0	0	0	0.0002	0.0003	0	0.0005	0	0	0
Sm3+	0	0	0	0	0.002	0	0	0	0	0.0019	0.0005	0.0012	0.0017	0	0.0015	0	0	0.0008	0	0.0011	0	0.0009
Nd3+	0.0004	0	0.001	0	0.0003	0.0013	0.0017	0.002	0.0003	0	0	0	0	0	0	0	0	0	0	0	0.0008	0.0022
Pr3+	0	0	0.0008	0	0.002	0.0041	0.005	0.0016	0	0	0.0056	0	0	0.0037	0	0.0004	0	0	0	0.0008	0	0
Ce3+	0	0.0018	0	0.0026	0	0	0.0015	0.0008	0	0.0023	0	0.002	0.002	0	0.0012	0.0008	0.002	0	0.0012	0.0001	0	0
La3+	0	0.0008	0	0	0	0	0.0015	0	0.0002	0	0.0013	0.0002	0.001	0.0001	0	0	0.0005	0.0003	0	0	0	0
Ga3+	0.0007	0	0	0	0.0006	0	0	0.0002	0.0002	0	0.0007	0	0	0.0001	0.0003	0	0	0	0.0003	0	0	0
Fe3+	0.001	0.0004	0	0.0003	0.0002	0	0	0	0.0008	0.0005	0	0.0009	0.0006	0.0003	0.0006	0.0003	0.0006	0.0008	0.0001	0.0001	0.001	0.0003

	SEG-Dyke MOSTMEG =	SEG-Dyke =	SEG-Dyke =	SEG-Dyke =	SEG-Dyke =	SEG-Dyke =
	1	2	3	4	5	6
Ta2O5	0.008	0.038	0.195	0	0	0.22
Nb2O5	0.044	0.08	0.027	0.08	0.053	0
ZrO2	0.038	0	0.018	0	0.073	0
GeO2	0	0.041	0.073	0	0.024	0.008
TiO2	0	0	0	0	0	0
SiO2	32.389	32.133	32.345	32.083	32.396	32.42
Sm2O3	0	0	0	0	0	0
Nd2O3	0.146	0	0	0.052	0	0
Pr2O3	0	0.402	0	0.854	0.357	0.111
Ce2O3	0	0	0	0	0	0
La2O3	0	0.043	0	0	0.053	0.015
Ga2O3	0.015	0.025	0.064	0.017	0.022	0
Fe2O3	0.0378	0.04	0.0322	0	0.0478	0
Mn2O3	0.049	0	0	0.0211	0	0
Cr2O3	0	0.002	0	0	0.025	0.025
V2O3	0	0.016	0	0	0	0.003
Sc2O3	0.007	0	0.011	0	0	0.006
Al2O3	55.797	55.831	55.84	55.931	55.838	55.755
BaO	0.063	0	0	0.022	0	0
ZnO	0	0.028	0.105	0	0	0.081
MgO	0	0	0	0.012	0	0
K2O	0	0	0.011	0.022	0.015	0.014
Na2O	0	0	0	0	0.01	0.027
F	11.43	12.506	11.823	10.812	11.909	12.011
H2O	4.3995	3.8743	4.2211	4.6909	4.1889	4.1261
Total#	104.4232	105.0593	104.7653	104.597	105.0117	104.8221
O=F	-4.8129	-5.2659	-4.9783	-4.5526	-5.0146	-5.0575
Total	99.6104	99.7933	99.7869	100.0444	99.9972	99.7646

Group										
Ge4+	0	0.0007	0.0013	0	0.0004	0.0001	0	0.0013	0.0002	0.0003
Si4+	0.9891	0.9827	0.9869	0.9799	0.9876	0.9898	0.964	0.9923	0.9819	0.0071
Al3+	0.0109	0.0165	0.0118	0.0201	0.012	0.0101	0.0077	0.0355	0.0179	0.007
Total	1	1	1	1	1	1	1	1	1	0

Group										
Ta5+	0.0001	0.0003	0.0016	0	0	0.0018	0	0.0035	0.0006	0.0009
Nb5+	0.0006	0.0011	0.0004	0.0011	0.0007	0	0	0.0031	0.0004	0.0006
Zr4+	0.0006	0	0.0003	0	0.0011	0	0	0.0011	0.0002	0.0003
Ti4+	0	0	0	0	0	0	0	0.0011	0.0001	0.0003
Sm3+	0	0	0	0	0	0	0	0.0036	0.0005	0.0008
Nd3+	0.0016	0	0	0.0006	0	0	0	0.0022	0.0005	0.0006
Pr3+	0	0.0045	0	0.0095	0.004	0.0012	0	0.0095	0.0017	0.0024
Ce3+	0	0	0	0	0	0	0	0.0045	0.0009	0.0012
La3+	0	0.0005	0	0	0.0006	0.0002	0	0.0015	0.0003	0.0004
Ga3+	0.0003	0.0005	0.0013	0.0003	0.0004	0	0	0.0013	0.0002	0.0003
Fe3+	0.0009	0.0009	0.0007	0	0.0011	0	0	0.0016	0.0004	0.0004

