APPENDIX 3

Representative analysis of epidote; FeO_{total}, total Fe as FeO

Analysis	1	2	3	4	5	6	7	8
Oxides (wt.%)								
SiO_2	37.64	37.39	38.44	38.53	38.62	37.94	37.61	38.27
TiO_2	0.50	0.04	0.11	0.09	0.02	0.07	0.04	0.06
Al_2O_3	22.29	21.49	24.91	26.99	27.19	22.48	22.38	23.94
FeO_{total}	13.70	14.76	10.43	8.19	8.05	13.95	13.97	11.76
MnO	0.19	0.23	0.08	0.14	0.17	0.13	0.06	0.00
MgO	0.02	0.01	0.05	0.03	0.04	0.00	0.00	0.00
CaO	23.63	23.50	24.24	24.42	24.29	23.67	23.93	24.14
Na_2O	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.00
H_2O	1.88	1.86	1.91	1.92	1.93	1.88	1.87	1.90
Total	**99.86**	99.30	100.16	100.33	100.30	100.16	99.87	100.09
Formulae on the basis of ^{18}O								
Si	6.015	6.035	6.045	6.002	6.010	6.042	6.015	6.051
Ti	0.06	0.004	0.013	0.011	0.002	0.009	0.004	0.007
Al	4.199	4.088	4.618	4.955	4.988	4.220	4.219	4.461
Fe^{2+}	1.648	1.793	1.234	0.960	0.942	1.672	1.681	1.399
Mn	0.026	0.031	0.010	0.019	0.023	0.018	0.008	0.000
Mg	0.005	0.003	0.011	0.006	0.008	0.001	0.000	0.000
Ca	4.047	4.063	4.085	4.075	4.050	4.039	4.101	4.090
Na	0.02	0.006	0.000	0.001	0.000	0.000	0.000	0.000
OH	2	2	2	2	2	2	2	2
Total	**18.002**	18.024	18.016	18.030	18.023	18.002	18.030	18.010