

Appendix 1 Table 2:

Table 2. Representative microprobe data of garnets from sample VMEC 11-14.

**Weight % Oxides**

Sample	VMEC11-14C2P1	VMEC11-14C2P2	VMEC11-14C2P3
SiO <sub>2</sub>	37.93	37.54	38.12
TiO <sub>2</sub>	0.04	0.01	0.01
Al <sub>2</sub> O <sub>3</sub>	22.49	22.35	22.31
FeO	33.52	32.9	32.59
MnO	1.2	1.12	1.16
MgO	4.76	5.24	5.31
CaO	0.94	0.97	0.95
Cr <sub>2</sub> O <sub>3</sub>	0	0	0
Total	100.87	100.12	100.45

**Cations Per 12 Oxygens**

Si	2.96	2.95	2.98
Al iv	0.04	0.05	0.02
Al vi	2.04	2.04	2.04
Ti	0.00	0.00	0.00
Cr	0.00	0.00	0.00
Fe <sup>2+</sup>	2.25	2.21	2.19
Mn	0.08	0.07	0.08
Mg	0.55	0.61	0.62
Ca	0.08	0.08	0.08
Total	8.01	8.02	8.00

**End Members**

Almandine	75.98	73.93	73.83
Grossular	2.65	2.76	2.68
Pyrope	18.70	20.80	20.89
Spessartine	2.67	2.52	2.60
Uvarovite	0.00	0.00	0.00

VMEC11-14C2P4 VMEC11-14C1P1 VMEC11-14C1P2 VMEC11-14C1P3

37.29	37.21	37.87	37.81
0.04	0	0.02	0
22.33	22.37	22.4	22.24
34.66	34.67	32.73	33.83
1.43	1.43	1.25	1.26
4.1	3.96	4.85	4.55
0.96	1.01	0.98	1
0.02	0.03	0.01	0
100.84	100.68	100.11	100.7

2.94	2.94	2.97	2.97
0.06	0.06	0.03	0.03
2.03	2.03	2.05	2.04
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00
2.33	2.34	2.22	2.27
0.10	0.10	0.08	0.08
0.48	0.47	0.57	0.53
0.08	0.09	0.08	0.08
8.02	8.02	8.01	8.01

77.57	77.96	75.19	76.43
2.71	2.82	2.77	2.83
16.40	15.87	19.20	17.93
3.26	3.26	2.82	2.82
0.06	0.09	0.03	0.00