### Table 1. Compositional traverse across the MA65 garnet.

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| Si         | 2.97  | 2.99  | 3.02  | 2.98  | 2.99  | 2.99  | 3.00  | 2.99  | 3.00  | 2.98  | 3.00  | 2.95  |
| Al         | 2.00  | 1.96  | 1.95  | 1.96  | 1.95  | 2.00  | 1.97  | 2.01  | 1.99  | 2.00  | 1.99  | 2.00  |
| Mn         | 0.20  | 0.21  | 0.23  | 0.24  | 0.25  | 0.25  | 0.25  | 0.25  | 0.27  | 0.28  | 0.28  | 0.31  |
| Mg         | 0.18  | 0.17  | 0.18  | 0.17  | 0.17  | 0.17  | 0.16  | 0.16  | 0.15  | 0.15  | 0.16  | 0.15  |
| Ca         | 0.36  | 0.38  | 0.38  | 0.36  | 0.38  | 0.36  | 0.37  | 0.37  | 0.38  | 0.41  | 0.42  | 0.43  |
| Na         | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Fe         | 2.32  | 2.28  | 2.24  | 2.30  | 2.30  | 2.21  | 2.24  | 2.20  | 2.20  | 2.18  | 2.14  | 2.18  |
| Ti         | <0.01 | 0.01  | 0.01  | 0.01  | 0.01  | 0.01  | 0.01  | <0.01 | <0.01 | <0.01 | <0.01 | 0.01  |
| Cr         | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.01  | <0.01 |
| Total      | 8.03  | 8.01  | 8.01  | 8.03  | 8.03  | 8.00  | 8.01  | 8.00  | 8.01  | 8.01  | 8.00  | 8.04  |

| FM$^d$     | 0.930 | 0.930 | 0.927 | 0.932 | 0.931 | 0.929 | 0.934 | 0.934 | 0.935 | 0.937 | 0.929 | 0.934 |
| Sps        | 0.066 | 0.069 | 0.075 | 0.079 | 0.079 | 0.083 | 0.084 | 0.085 | 0.088 | 0.094 | 0.094 | 0.101 |
| Pyp        | 0.057 | 0.056 | 0.058 | 0.054 | 0.055 | 0.056 | 0.053 | 0.052 | 0.051 | 0.049 | 0.054 | 0.050 |
| Alm        | 0.760 | 0.749 | 0.741 | 0.748 | 0.742 | 0.739 | 0.741 | 0.737 | 0.733 | 0.721 | 0.712 | 0.708 |
| Grs        | 0.117 | 0.125 | 0.125 | 0.119 | 0.124 | 0.122 | 0.122 | 0.126 | 0.128 | 0.136 | 0.140 | 0.141 |

a. Quant#= analysis number. Analysis 11 was used to estimate the P-T conditions.
b. Distance from the garnet rim.
c. "-" analyzed but not detected.
d. FM= Fe/(Fe+Mg), Sps= spessartine, Pyp= pyrope, Alm= almandine, Grs= grossular.
**Table 2.** Compositions of biotite grains in sample MA65.

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| Si                | 5.41  | 5.54  | 5.52  | 5.37  | 5.54  |
| Al                | 3.52  | 3.38  | 3.42  | 3.75  | 3.34  |
| Mn                | 0.01  | <0.01 | 0.01  | 0.02  | 0.01  |
| Mg                | 1.73  | 1.82  | 1.82  | 1.70  | 1.94  |
| Ca                | 0.01  | 0.01  | 0.02  | 0.03  | 0.04  |
| Na                | 0.04  | 0.06  | 0.06  | 0.07  | 0.05  |
| K                 | 1.88  | 1.74  | 1.82  | 1.45  | 1.69  |
| Fe                | 2.80  | 2.74  | 2.72  | 2.79  | 2.70  |
| Ti                | 0.19  | 0.19  | 0.16  | 0.17  | 0.17  |
| Cr                | <0.01 | <0.01 | <0.01 | <0.01 | 0.01  |
| Total             | 15.60 | 15.48 | 15.56 | 15.34 | 15.48 |

| FM<sup>d</sup>    | 0.62  | 0.60  | 0.60  | 0.62  | 0.58  |

---

* a. Quant# = analysis number. Analyses 5 and 6 were used to estimate the P-T conditions.
  b. Distance from the garnet rim.
  c. "-" analyzed but not detected.
  d. FM = Fe/(Fe+Mg).
Table 3. Compositions of muscovite grains in sample MA65.

<table>
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<td>45.35</td>
<td>44.91</td>
<td>45.15</td>
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<td>34.50</td>
<td>33.63</td>
<td>33.92</td>
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<tr>
<td>MnO</td>
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<td>0.04</td>
<td>0.03</td>
<td>0.02</td>
</tr>
<tr>
<td>MgO</td>
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<td>0.88</td>
<td>0.56</td>
<td>0.72</td>
</tr>
<tr>
<td>CaO</td>
<td>0.02</td>
<td>-c</td>
<td>0.01</td>
<td>0.05</td>
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<tr>
<td>Na₂O</td>
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<td>0.76</td>
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<td>0.80</td>
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<tr>
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<td>9.52</td>
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<tr>
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<td>6.24</td>
<td>6.21</td>
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a. Quant# = analysis number. Analyses 1 and 3 were used to estimate the P-T conditions.
b. Distance from the garnet rim.
c. "-" analyzed but not detected.
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<table>
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a. Quant#= analysis number. Analyses 8 and 9 were used to estimate the P-T conditions.
b. Distance from the garnet rim.
c. "-" analyzed but not detected.
d. Ab= albite, An= anorthite, Or= orthoclase.