Appendix 5a.1: Uncorrected LA-ICP-MS data for rutile U/Pb geochronology in samples RG54 and RG57.

<table>
<thead>
<tr>
<th>Sample</th>
<th>Spot #</th>
<th>U (ppm)</th>
<th>Th (ppm)</th>
<th>Th/U</th>
<th>( {^{206}\text{Pb}} / {^{208}\text{Pb}} ) Uncorrected</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>( {^{206}\text{Pb}} / {^{208}\text{Pb}} ) ( \pm 1 \text{s} )</td>
</tr>
<tr>
<td>RG54</td>
<td>12</td>
<td>13</td>
<td>0.305</td>
<td>0.024</td>
<td>3.7</td>
</tr>
<tr>
<td></td>
<td>13</td>
<td>14</td>
<td>0.096</td>
<td>0.007</td>
<td>0.7</td>
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<tr>
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<td>14</td>
<td>22</td>
<td>1.316</td>
<td>0.060</td>
<td>1.1</td>
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<tr>
<td></td>
<td>15</td>
<td>17</td>
<td>0.137</td>
<td>0.008</td>
<td>0.6</td>
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<tr>
<td></td>
<td>16</td>
<td>14</td>
<td>0.049</td>
<td>0.003</td>
<td>4.8</td>
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<tr>
<td></td>
<td>18</td>
<td>12</td>
<td>0.195</td>
<td>0.016</td>
<td>2.2</td>
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<tr>
<td></td>
<td>21</td>
<td>10</td>
<td>0.162</td>
<td>0.017</td>
<td>0.5</td>
</tr>
<tr>
<td>RG57</td>
<td>6</td>
<td>27</td>
<td>0.156</td>
<td>0.006</td>
<td>6.5</td>
</tr>
<tr>
<td></td>
<td>6</td>
<td>27</td>
<td>0.221</td>
<td>0.008</td>
<td>1.7</td>
</tr>
<tr>
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<td>5</td>
<td>0.261</td>
<td>0.051</td>
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<tr>
<td></td>
<td>8</td>
<td>26</td>
<td>0.104</td>
<td>0.004</td>
<td>0.5</td>
</tr>
<tr>
<td></td>
<td>11</td>
<td>42</td>
<td>0.249</td>
<td>0.006</td>
<td>0.5</td>
</tr>
<tr>
<td></td>
<td>11</td>
<td>49</td>
<td>5.902</td>
<td>0.120</td>
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</table>
## Appendix 5a.2: Corrected LA-ICP-MS data for rutile U/Pb geochronology in samples RG54 and RG57.

<table>
<thead>
<tr>
<th>Sample</th>
<th>Spot #</th>
<th>Ratio</th>
<th>± 1 s</th>
<th>Ratio</th>
<th>± 1 s</th>
<th>rho</th>
<th>Ratio</th>
<th>± 1 s</th>
<th>Age (Ma)</th>
<th>± 1 s</th>
<th>Age (Ma)</th>
<th>± 1 s</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>$^{207}\text{Pb}/^{235}\text{U}$</td>
<td></td>
<td>$^{206}\text{Pb}/^{238}\text{U}$</td>
<td></td>
<td></td>
<td>$^{207}\text{Pb}/^{206}\text{Pb}$</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RG54</td>
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<td>0.298</td>
<td>0.106</td>
<td>0.0410</td>
<td>0.0020</td>
<td>0.02</td>
<td>0.053</td>
<td>0.019</td>
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<tr>
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<td>0.398</td>
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<td>0.0030</td>
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<td>0.066</td>
<td>0.020</td>
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<tr>
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<td>0.129</td>
<td>0.193</td>
<td>0.0423</td>
<td>0.0029</td>
<td>0.00</td>
<td>0.022</td>
<td>0.033</td>
<td>123</td>
<td>190</td>
<td>267</td>
<td>18</td>
</tr>
<tr>
<td>RG57</td>
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<td>0.288</td>
<td>0.071</td>
<td>0.0393</td>
<td>0.0019</td>
<td>0.03</td>
<td>0.053</td>
<td>0.013</td>
<td>257</td>
<td>58</td>
<td>249</td>
<td>12</td>
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<tr>
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<td>6</td>
<td>0.317</td>
<td>0.209</td>
<td>0.0405</td>
<td>0.0035</td>
<td>0.00</td>
<td>0.057</td>
<td>0.038</td>
<td>279</td>
<td>175</td>
<td>256</td>
<td>21</td>
</tr>
</tbody>
</table>
Appendix 5a.3: Rutile U/Pb geochronological data diagrams.

Figure 1: Concordia plot for LA-ICP-MS data of rutiles from samples RG54 and RG57.

Concordia Age = 259 ±13 Ma
(2σ, decay-const. errs included)
MSWD (of concordance) = 0.054,
Probability (of concordance) = 0.82

Figure 2: $^{206}$Pb/$^{238}$U ages for LA-ICP-MS data of rutiles from samples RG54 and RG57.

Mean = 258 ± 14 [5.2%] 2σ
Wtd by data-pt errs only, 0 of 5 rej.
MSWD = 0.42, probability = 0.80
(error bars are 2σ)
Figure 3: Tera-Wasserburg diagram illustrating uncorrected data for rutiles from samples RG54 and RG57.

Intercepts at 261±18 & 5013±220 Ma, MSWD = 0.31

Data-point error ellipses are 2σ