| Sample | FM-037 | 4320-1A | FM-031 | C7 | H86-128 | C14 |
|---|---|---|---|---|---|---|
| Age, Ma | 47 | 43 | 47 | 43.5 | 44 | 43.5 |
| Long W | 105 34.2 | 103 31 | 105 33.7 | 103 23.7 | 103 25.6 | 103 23.6 |
| Lat N | 31 19.2 | 29 27 | 31 19.4 | 29 23.1 | 29 29.8 | 29 23.1 |
| SiO2 | 63.54 | 63.81 | 63.93 | 63.95 | 64.22 | 64.09 |
| TiO2 | 0.35 | 0.22 | 0.33 | 0.59 | 0.43 | 0.56 |
| Al2O3 | 18.72 | 16.76 | 18.90 | 15.03 | 16.48 | 15.44 |
| Fe2O3 | 3.30 | | 2.92 | 0.96 | 3.31 | 0.88 |
| FeO | | | | 6.39 | 1.83 | 5.86 |
| FeO* | | 4.35 | | | | |
| MnO | 0.17 | 0.14 | 0.20 | 0.22 | 0.15 | 0.19 |
| MgO | 0.44 | 0.17 | 0.40 | 0.05 | 0.55 | 0.26 |
| CaO | 2.50 | 1.13 | 2.73 | 2.28 | 1.50 | 2.21 |
| Na2O | 6.15 | 7.40 | 6.35 | 4.29 | 6.38 | 4.23 |
| K2O | 5.31 | 5.98 | 5.33 | 6.09 | 5.37 | 6.10 |
| P2O5 | 0.10 | 0.04 | 0.09 | 0.17 | | 0.19 |
| H2O+ | | | | | 0.68 | |
| H2O- | | | | | | |
| CO2 | | | | | 0.04 | |
| Total | 100 | 100 | 100 | 100.02 | 100.94 | 100 |
| SiO2' | 63.54 | 63.81 | 63.93 | 63.95 | 64.08 | 64.09 |
| (Na2O+K2O)' | 11.46 | 13.38 | 11.68 | 10.38 | 11.72 | 10.33 |
| Sc | | 0.9 | | | | |
| V | 35 | 1.7 | 29 | | | |
| Cr | | 10.9 | | | | |
| Ni | 1 | 6.8 | 1 | | | |
| Cu | | | | | | |
| Zn | | | | | | |
| Ga | | | | | | |
| Rb | 157 | 241.5 | 186 | 95 | | 105 |
| Sr | 820 | 22.8 | 900 | 80 | | 91 |
| Y | 41 | 81.1 | 37 | | | |
| Zr | 385 | 1316.7 | 364 | | | |
| Nb | 35* | 185.1 | 33* | | | |
| Cs | | | | | | |
| Ba | 1896 | 27 | 1831 | | | |
| La | | 134 | | | | |
| Ce | | 274.1 | | | | |
| Pr | | | | | | |
| Nd | | 95.9 | | | | |
| Sm | | 16.55 | | | | |
| Eu | | 0.187 | | | | |
| Gd | | 12.63 | | | | |
| Tb | | | | | | |
| Dy | | 13.88 | | | | |
| Ho | | | | | | |
| Er | | 8.018 | | | | |
| Tm | | | | | | |
| Yb | | 8.231 | | | | |
| Lu | | | | | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| Hf | | | | | | |
| Ta | | | | | | |
| Pb | | | | | | |
| Th | 29 | | 26 | | | |
| U | | | | | | |
| Li | | | | | | |
| F | | | | | | |
| Rb/Sr | 0.19 | 10.6 | 0.21 | 1.19 | | 1.15 |
| Cen/Ybn | | 9 | | | | |
| Eu* | | 0.04 | | | | |
| Zr/Hf | | | | | | |
| Ba/Rb | 12.1 | 0.05 | 9.84 | | | |
| Rb/Th | 5.41 | | 7.15 | | | |
| 87Sr/86Sr,I | | | | | | |
| 143Nd/144Nd | | | | | | |
| 206Pb/204Pb | | | | | | |
| 207Pb/204Pb | | | | | | |
| 208Pb/204Pb | | | | | | |

| Sample | C5 | SR3 | CH-008 | SB-001 | CAMPA | SB-004 |
|---|---|---|---|---|---|---|
| Age, Ma | 43.5 | 43.5 | 47 | 47 | 48 | 47 |
| Long W | 103 23.7 | 103 23 | 105 22.4 | 105 21.3 | 106 30.6 | 105 24.1 |
| Lat N | 29 23 | 29 23 | 31 11.3 | 31 11.2 | 31 46.5 | 31 15.2 |
| SiO2 | 64.29 | 64.58 | 64.74 | 64.81 | 62.52 | 65.21 |
| TiO2 | 0.55 | 0.60 | 0.44 | 0.45 | 0.30 | 0.44 |
| Al2O3 | 15.62 | 15.60 | 15.85 | 15.72 | 17.42 | 15.75 |
| Fe2O3 | 0.88 | 0.85 | 3.51 | 3.54 | | 3.56 |
| FeO | 5.87 | 5.67 | | | | |
| FeO* | | | | | 1.45 | |
| MnO | 0.19 | 0.19 | 0.14 | 0.12 | 0.29 | 0.13 |
| MgO | 0.08 | 0.23 | 1.44 | 1.20 | 1.29 | 1.25 |
| CaO | 2.16 | 2.35 | 2.75 | 2.95 | 3.55 | 2.86 |
| Na2O | 4.11 | 4.16 | 4.22 | 4.50 | 5.96 | 4.66 |
| K2O | 6.05 | 5.16 | 4.00 | 4.07 | 2.90 | 4.25 |
| P2O5 | 0.18 | 0.16 | 0.16 | 0.17 | 0.41 | 0.18 |
| H2O+ | | | | | | |
| H2O- | | | | | | |
| CO2 | | | | | | |
| Total | 99.98 | 100 | 100 | 100 | 96.09 | 100 |
| SiO2' | 64.30 | 64.58 | 64.74 | 64.81 | 65.06 | 65.21 |
| (Na2O+K2O)' | 10.16 | 9.32 | 8.22 | 8.57 | 9.22 | 8.91 |
| Sc | | | | | 2.59 | |
| V | | | 64 | 61 | | 61 |
| Cr | | | 10 | 3 | 5.96 | 4 |
| Ni | | | 4 | 3 | 6.9 | 3 |
| Cu | | | | | | |
| Zn | | | | | 47.9 | |
| Ga | | | | | | |
| Rb | | 96 | 163 | 168 | 45 | 174 |
| Sr | | 37 | 555 | 656 | 810 | 630 |
| Y | | | 27 | 16 | | 28 |
| Zr | | | 196 | 195 | 123 | 198 |
| Nb | | | 15* | 15* | 5.8* | 16* |
| Cs | | | | | 1.88 | |
| Ba | | | 1359 | 1455 | 1285 | 1517 |
| La | | | | | 20.08 | |
| Ce | | | | | 40.9 | |
| Pr | | | | | | |
| Nd | | | | | 18 | |
| Sm | | | | | 2.97 | |
| Eu | | | | | 0.977 | |
| Gd | | | | | | |
| Tb | | | | | 0.251 | |
| Dy | | | | | | |
| Ho | | | | | | |
| Er | | | | | | |
| Tm | | | | | | |
| Yb | | | | | 0.64 | |
| Lu | | | | | 0.094 | |

| | | | | | | |
|---|---|---|---|---|---|---|
| Hf | | | | | 3.36 | |
| Ta | | | | | 0.628 | |
| Pb | | | | | | |
| Th | | | 20 | 23 | 3.16 | 26 |
| U | | | | | 0.91 | |
| Li | | | | | | |
| F | | | | | | |
| Rb/Sr | | 2.59 | 0.29 | 0.26 | 0.06 | 0.28 |
| Cen/Ybn | | | | | 17.26* | |
| Eu* | | | | | 1.11 | |
| Zr/Hf | | | | | 36.6 | |
| Ba/Rb | | | 8.34 | 8.66 | 28.6 | 8.72 |
| Rb/Th | | | 8.15 | 7.3 | 14.2 | 6.69 |
| 87Sr/86Sr,I | | | | | | |
| 143Nd/144Nd | | | | | | |
| 206Pb/204Pb | | | | | | |
| 207Pb/204Pb | | | | | | |
| 208Pb/204Pb | | | | | | |

| Sample | CH-006 | H86-83 | FM-008 | 98611 | B52 | SR-5 |
|---|---|---|---|---|---|---|
| Age, Ma | 47 | 44 | 47 | | 38.1 | 43.5 |
| Long W | 105 22.4 | 103 24 | 105 38.6 | 103 31 | 103 32.5 | 103 23.4 |
| Lat N | 31 11.2 | 29 28.1 | 31 20.7 | 29 27 | 29 20.5 | 29 22.8 |
| SiO2 | 65.29 | 64.62 | 65.37 | 65.33 | 65.65 | 65.90 |
| TiO2 | 0.42 | 0.47 | 0.27 | 0.12 | 0.48 | 0.63 |
| Al2O3 | 15.85 | 14.83 | 17.65 | 17.01 | 16.51 | 15.95 |
| Fe2O3 | 3.38 | 5.87 | 2.30 | | | 0.89 |
| FeO | | 0.60 | | | | 5.89 |
| FeO* | | | | 3.62 | 3.79 | |
| MnO | 0.13 | 0.13 | 0.16 | 0.11 | | 0.20 |
| MgO | 1.36 | 0.19 | 0.46 | 0.05 | 0.45 | 0.28 |
| CaO | 2.56 | 1.79 | 2.64 | 0.66 | 1.44 | 0.71 |
| Na2O | 4.20 | 5.04 | 6.24 | 7.55 | 5.68 | 3.66 |
| K2O | 4.14 | 5.42 | 2.79 | 5.26 | 5.86 | 5.74 |
| P2O5 | 0.14 | | 0.07 | | 0.13 | 0.15 |
| H2O+ | | 1.05 | | | | |
| H2O- | | | | | | |
| CO2 | | 1.06 | | | | |
| Total | 100 | 101.07 | 100 | 99.71 | 100 | 100 |
| SiO2' | 65.29 | 65.30 | 65.37 | 65.52 | 65.65 | 65.90 |
| (Na2O+K2O)' | 8.34 | 10.57 | 9.03 | 12.85 | 11.54 | 9.40 |
| Sc | | | | | 2.3 | |
| V | 63 | | 36 | | 3.6 | |
| Cr | 10 | | | | 1 | |
| Ni | 4 | | | | 2.6 | |
| Cu | | | | | | |
| Zn | | | | | | |
| Ga | | | | | | |
| Rb | 169 | | 84 | 290 | 116 | 101 |
| Sr | 557 | | 849 | 59 | 57 | 35 |
| Y | 27 | | 16 | 90 | 41 | |
| Zr | 193 | | 216 | 1420 | 585 | |
| Nb | 15* | | 13* | 242 | 82.8 | |
| Cs | | | | | | |
| Ba | 1495 | | 2392 | 28 | 540 | |
| La | | | | | 68.8 | |
| Ce | | | | 279 | 139 | |
| Pr | | | | | | |
| Nd | | | | 155 | 59.9 | |
| Sm | | | | | | |
| Eu | | | | | | |
| Gd | | | | | | |
| Tb | | | | | | |
| Dy | | | | | | |
| Ho | | | | | | |
| Er | | | | | | |
| Tm | | | | | | |
| Yb | | | | | | |
| Lu | | | | | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| Hf | | | | | | |
| Ta | | | | | | |
| Pb | | | | | | |
| Th | 25 | | 13 | 42 | | |
| U | | | | | | |
| Li | | | | | | |
| F | | | | | | |
| Rb/Sr | 0.3 | | 0.1 | | 2.04 | 2.89 |
| Cen/Ybn | | | | | | |
| Eu* | | | | | | |
| Zr/Hf | | | | | | |
| Ba/Rb | 8.85 | | 28.5 | | 4.66 | |
| Rb/Th | 6.76 | | 6.46 | | | |
| 87Sr/86Sr,I | | | | | | |
| 143Nd/144Nd | | | | | | |
| 206Pb/204Pb | | | | | | |
| 207Pb/204Pb | | | | | | |
| 208Pb/204Pb | | | | | | |

| Sample | TM-011 | 84208 | NN6a | SM84009 | 8208 | H86-105 |
|---|---|---|---|---|---|---|
| Age, Ma | 45 | 39 | 40 | 43.5 | | 42.1 |
| Long W | 105 21.9 | 104 08.3 | 103 31 | 103 37.2 | 103 33.3 | 103 24.9 |
| Lat N | 31 10.5 | 30 56.1 | 29 20 | 29 21.2 | 29 27.2 | 29 28.5 |
| SiO2 | 66.03 | 64.50 | 66.12 | 65.20 | 66.28 | 66.60 |
| TiO2 | 0.42 | 0.64 | 0.45 | 0.23 | 0.35 | 0.31 |
| Al2O3 | 15.83 | 14.60 | 14.92 | 16.80 | 16.08 | 16.31 |
| Fe2O3 | 1.07 | | | 2.24 | | 1.60 |
| FeO | | | | 0.80 | | 1.69 |
| FeO* | | 5.47 | 5.68 | | 3.95 | |
| MnO | 0.06 | 0.19 | | 0.08 | | 0.10 |
| MgO | 1.01 | 0.30 | 0.30 | 0.17 | 0.38 | 0.35 |
| CaO | 3.84 | 0.68 | 1.35 | 0.95 | 2.05 | 0.87 |
| Na2O | 4.56 | 5.26 | 5.66 | 6.73 | 4.99 | 6.74 |
| K2O | 4.31 | 5.89 | 5.43 | 5.23 | 5.85 | 5.61 |
| P2O5 | 0.15 | 0.14 | 0.09 | 0.07 | 0.08 | |
| H2O+ | | | | 0.40 | | 0.54 |
| H2O- | | | | 0.30 | | |
| CO2 | | | | 0.10 | | 0.15 |
| Total | 100 | 97.67 | 100 | 99.32 | 100 | 100.87 |
| SiO2' | 66.03 | 66.04 | 66.12 | 66.18 | 66.28 | 66.48 |
| (Na2O+K2O)' | 8.87 | 11.42 | 11.09 | 12.14 | 10.84 | 12.33 |
| Sc | | | 1 | | 1.4 | |
| V | 57 | | 3.6 | | 3.7 | |
| Cr | 3 | | 3.4 | | 1.7 | |
| Ni | 3 | | 1 | | 0.6 | |
| Cu | | | | | | |
| Zn | | | | | | |
| Ga | | | | | | |
| Rb | 156 | 91 | 139 | 150 | 125 | |
| Sr | 485 | 19 | 35 | 50 | 14 | |
| Y | 28 | 55 | 70.2 | 50 | 70.2 | |
| Zr | 202 | 496 | 821 | 670 | 648 | |
| Nb | 15* | 44* | 114 | 90 | 76.5 | |
| Cs | | | | | | |
| Ba | 1403 | 465 | 96 | | 163 | |
| La | | | 107 | | 89.1 | |
| Ce | | | 190 | | 169.6 | |
| Pr | | | | | | |
| Nd | | | 80.3 | | 74.76 | |
| Sm | | | | | 14.41 | |
| Eu | | | | | 2.342 | |
| Gd | | | | | 11.35 | |
| Tb | | | | | | |
| Dy | | | | | 10.8 | |
| Ho | | | | | | |
| Er | | | | | 6.059 | |
| Tm | | | | | | |
| Yb | | | | | 5.859 | |
| Lu | | | | | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| Hf | | | | | | |
| Ta | | | | | | |
| Pb | | | | | | |
| Th | 23 | | | | | |
| U | | | | | | |
| Li | | | | | | |
| F | | | | | | |
| Rb/Sr | 0.32 | 4.79 | 3.97 | 3 | 8.93 | |
| Cen/Ybn | | | | | 7.83 | |
| Eu* | | | | | 0.54 | |
| Zr/Hf | | | | | | |
| Ba/Rb | 8.99 | 5.11 | 0.69 | | 1.3 | |
| Rb/Th | 6.78 | | | | | |
| 87Sr/86Sr,I | | | | | | |
| 143Nd/144Nd | | | | | | |
| 206Pb/204Pb | | | | | | |
| 207Pb/204Pb | | | | | | |
| 208Pb/204Pb | | | | | | |

| Sample | H86-93 | MGD-405 | H86-53 | 4320-7A | 81-22 | WH76-2 |
|---|---|---|---|---|---|---|
| Age, Ma | 43 | 43 | 42 | 43 | 44 | 44 |
| Long W | 103 31.3 | 103 30.8 | 103 22.9 | 103 33.3 | 103 27.8 | 103 30.4 |
| Lat N | 29 26.6 | 29 26.4 | 29 29.4 | 29 27.2 | 29 28.5 | 29 23.5 |
| SiO2 | 66.21 | 66.37 | 66.12 | 67.95 | 67.38 | 68.56 |
| TiO2 | 0.16 | 0.15 | 0.37 | 0.29 | 0.26 | 0.30 |
| Al2O3 | 16.43 | 15.77 | 14.12 | 15.01 | 15.61 | 15.77 |
| Fe2O3 | 1.61 | 2.50 | 2.64 | 3.41 | 4.43 | 1.92 |
| FeO | 1.05 | 1.40 | 2.12 | 0.67 | 0.36 | 1.13 |
| FeO* | | | | | | |
| MnO | 0.07 | 0.09 | 0.12 | 0.16 | 0.33 | 0.08 |
| MgO | 0.04 | 0.18 | 0.08 | 0.16 | 0.02 | 0.49 |
| CaO | 0.28 | 0.58 | 1.26 | 1.82 | 0.83 | 1.36 |
| Na2O | 7.49 | 6.76 | 5.13 | 5.22 | 4.08 | 5.25 |
| K2O | 5.54 | 4.80 | 5.81 | 5.26 | 5.49 | 4.97 |
| P2O5 | | | | 0.06 | | 0.16 |
| H2O+ | 0.36 | 0.74 | 0.21 | | 1.32 | |
| H2O- | | | | | | |
| CO2 | | | 1.44 | | 0.48 | |
| Total | 99.24 | 99.34 | 99.42 | 100 | 100.59 | 100 |
| SiO2' | 66.96 | 67.31 | 67.63 | 67.95 | 68.21 | 68.56 |
| (Na2O+K2O)' | 13.16 | 11.72 | 11.19 | 10.48 | 9.69 | 10.22 |
| Sc | | | | | | 3 |
| V | | | | 3 | | 7.3 |
| Cr | | | | 2.9 | | 23.3 |
| Ni | | | | 4 | | 3.7 |
| Cu | | | | | | |
| Zn | | | | | | |
| Ga | | | | | | |
| Rb | | | | 172.6 | | 127 |
| Sr | | | | 19.9 | | 131 |
| Y | | | | 86.3 | | 38 |
| Zr | | | | 717 | | 302 |
| Nb | | | | 98.5 | | 62 |
| Cs | | | | | | |
| Ba | | | | 101 | | 351 |
| La | | | | 111 | | 67.6 |
| Ce | | | | 180.8 | | 117.2 |
| Pr | | | | | | |
| Nd | | | | 84.06 | | 35.77 |
| Sm | | | | 16.08 | | 6.017 |
| Eu | | | | 0.928 | | 0.832 |
| Gd | | | | 13.51 | | 4.735 |
| Tb | | | | | | |
| Dy | | | | 12.5 | | 5.514 |
| Ho | | | | | | |
| Er | | | | 6.606 | | 3.658 |
| Tm | | | | | | |
| Yb | | | | 5.61 | | 4.092 |
| Lu | | | | | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| Hf | | | | | | |
| Ta | | | | | | |
| Pb | | | | | | |
| Th | | | | | | |
| U | | | | | | |
| Li | | | | | | |
| F | | | | | | |
| Rb/Sr | | | | 8.67 | | 0.97 |
| Cen/Ybn | | | | 8.71 | | 7.74 |
| Eu* | | | | 0.19 | | 0.46 |
| Zr/Hf | | | | | | |
| Ba/Rb | | | | 0.59 | | 2.76 |
| Rb/Th | | | | | | |
| 87Sr/86Sr,I | | | | 0.70657 | | |
| 143Nd/144Nd | | | | 0.51265 | | |
| 206Pb/204Pb | | | | | | |
| 207Pb/204Pb | | | | | | |
| 208Pb/204Pb | | | | | | |

| Sample | TM-001 | H86-85 |
|---|---|---|
| Age, Ma | 45 | 44 |
| Long W | 105 22.6 | 103 27.2 |
| Lat N | 31 10.6 | 29 28.8 |
| SiO2 | 68.63 | 68.75 |
| TiO2 | 0.27 | 0.19 |
| Al2O3 | 14.87 | 14.54 |
| Fe2O3 | 1.06 | 4.25 |
| FeO | | |
| FeO* | | |
| MnO | 0.05 | 0.12 |
| MgO | 0.31 | |
| CaO | 2.68 | 0.56 |
| Na2O | 4.53 | 6.66 |
| K2O | 4.34 | 4.75 |
| P2O5 | 0.09 | |
| H2O+ | | 0.43 |
| H2O- | | |
| CO2 | | 0.07 |
| Total | 100 | 100.32 |
| SiO2' | 68.63 | 68.87 |
| (Na2O+K2O)' | 8.87 | 11.43 |
| Sc | | |
| V | 30 | |
| Cr | | |
| Ni | | |
| Cu | | |
| Zn | | |
| Ga | | |
| Rb | 164 | |
| Sr | 432 | |
| Y | 24 | |
| Zr | 178 | |
| Nb | 14* | |
| Cs | | |
| Ba | 1074 | |
| La | | |
| Ce | | |
| Pr | | |
| Nd | | |
| Sm | | |
| Eu | | |
| Gd | | |
| Tb | | |
| Dy | | |
| Ho | | |
| Er | | |
| Tm | | |
| Yb | | |
| Lu | | |

| | | |
|---|---|---|
| Hf | | |
| Ta | | |
| Pb | | |
| Th | 24 | |
| U | | |
| Li | | |
| F | | |
| Rb/Sr | 0.38 | |
| Cen/Ybn | | |
| Eu* | | |
| Zr/Hf | | |
| Ba/Rb | 6.55 | |
| Rb/Th | 6.83 | |
| 87Sr/86Sr,I | | |
| 143Nd/144Nd | | |
| 206Pb/204Pb | | |
| 207Pb/204Pb | | |
| 208Pb/204Pb | | |