|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Sample | HR-1f | HR-2f | HR-3f | HR-5f | HR-6f | HR-9f | HR-11f | HR-13f | HR-16f | HR-18f | HR-21f | HR-24f | HR-25f | HR-29f | HR-32f | HR-35f | HR-36f |
| Rb (ppm) | 63.85 | 62.40 | 29.53 | 64.36 | 45.31 | 21.76 | 58.02 | 58.49 | 19.58 | 54.60 | 41.69 | 44.89 | 46.56 | 34.04 | 20.39 | 13.63 | 46.15 |
| Sr (ppm) | 129.27 | 123.66 | 102.84 | 130.46 | 100.74 | 65.13 | 118.69 | 126.19 | 47.27 | 107.10 | 125.86 | 96.89 | 106.10 | 70.52 | 32.49 | 38.19 | 106.33 |
| Nd (ppm) | 20.60 | 19.39 | 5.01 | 19.19 | 13.76 | 3.10 | 16.67 | 18.12 | 6.07 | 14.62 | 13.34 | 14.83 | 16.05 | 9.44 | 4.35 | 4.15 | 13.73 |
| Sm (ppm) | 1.80 | 1.79 | 0.93 | 1.72 | 1.19 | 0.59 | 2.26 | 2.42 | 1.09 | 1.71 | 2.05 | 2.87 | 2.57 | 1.67 | 0.77 | 0.74 | 1.60 |
| 87Sr/86Sr | 0.71056 | 0.71054 | 0.71135 | 0.71045 | 0.71023 | 0.71124 | 0.71011 | 0.70921 | 0.71076 | 0.71023 | 0.71032 | 0.70939 | 0.70983 | 0.70992 | 0.71028 | 0.71033 | 0.71005 |
| 2σ Sr | 0.00004 | 0.00003 | 0.00004 | 0.00005 | 0.00002 | 0.00003 | 0.00086 | 0.00003 | 0.00583 | 0.00004 | 0.00003 | 0.00003 | 0.00007 | 0.00005 | 0.00005 | 0.00002 | 0.00002 |
| 143Nd/144Nd | 0.512217 | 0.512235 | 0.512250 | 0.512271 | 0.512196 | 0.512169 | 0.512243 | 0.512224 | 0.512241 | 0.512267 | 0.512269 | 0.512254 | 0.512226 | 0.512161 | 0.512187 | 0.512259 | 0.512256 |
| 2σ Nd | 0.00001 | 0.00001 | 0.00001 | 0.00000 | 0.00000 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00002 | 0.00002 | 0.00002 | 0.00001 | 0.00001 | 0.00001 |
| εNd | -8.2 | -7.9 | -7.6 | -7.2 | -8.6 | -9.1 | -7.7 | -8.1 | -7.7 | -7.2 | -7.2 | -7.5 | -8.0 | -9.3 | -8.8 | -7.4 | -7.4 |
|  | **HR-37f** | **HR-41f** | **RB-4f** | **RB-8f** | **RB-10f** | **RB-13f** | **RB-15f** | **RB-20f** | **RB-21f** | **RB-25f** | **RB-29f** | **RB-30f** | **RB-33f** | **RB-35f** | **RB-41f** | **RB-45f** | **RB-48f** |
| Rb (ppm) | 11.29 | 10.81 | 51.44 | 48.23 | 48.83 | 52.60 | 29.41 | 49.88 | 50.94 | 52.13 | 47.44 | 47.86 | 46.92 | 46.13 | 28.10 | 20.31 | 39.27 |
| Sr (ppm) | 75.89 | 25.55 | 102.56 | 110.39 | 114.77 | 117.83 | 65.80 | 116.62 | 114.66 | 121.25 | 109.11 | 105.66 | 98.11 | 100.25 | 143.09 | 85.13 | 83.67 |
| Nd (ppm) | 8.57 | 3.03 | 14.76 | 17.89 | 15.17 | 17.12 | 7.54 | 18.49 | 15.20 | 16.34 | 17.35 | 13.70 | 16.60 | 13.33 | 8.53 | 4.01 | 12.56 |
| Sm (ppm) | 1.76 | 0.54 | 2.21 | 2.69 | 2.24 | 2.76 | 1.41 | 2.77 | 2.49 | 2.13 | 2.97 | 2.21 | 2.95 | 2.05 | 1.72 | 0.78 | 2.06 |
| 87Sr/86Sr | 0.70984 | 0.71055 | 0.70871 | 0.71026 | 0.70993 | 0.70980 | 0.71043 | 0.70978 | 0.70953 | 0.70962 | 0.70948 | 0.70942 | 0.70951 | 0.70974 | 0.71067 | 0.71001 | 0.70958 |
| 2σ Sr | 0.00002 | 0.00003 | 0.00002 | 0.00004 | 0.00003 | 0.00003 | 0.00001 | 0.00005 | 0.00003 | 0.00002 | 0.00003 | **0.00004** | 0.00004 | 0.00003 | 0.00003 | 0.00003 | 0.00002 |
| 143Nd/144Nd | 0.512402 | 0.512265 | 0.512243 | 0.512181 | 0.512224 | 0.512182 | 0.512177 | 0.512204 | 0.512215 | 0.512268 | 0.512175 | 0.512246 | 0.512194 | 0.512229 | 0.512263 | 0.512226 | 0.512339 |
| 2σ Nd | 0.00001 | 0.00001 | 0.00001 | 0.00002 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00002 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00003 |
| εNd | -4.6 | -7.3 | -7.7 | -8.9 | -8.1 | -8.9 | -9.0 | -8.5 | -8.3 | -7.2 | -9.0 | -7.6 | -8.7 | -8.0 | -7.3 | -8.0 | -5.8 |
|  | **RB-49f** | **HU-1f** | **HU-2f** | **HU-3f** | **HU-4f** | **HU-6f** | **HU-7f** | **HU-10f** | **HU-12f** | **HU-15f** | **HU-20f** | **HU-21f** | **HU-23f** | **HU-25f** | **HU-27f** | **HU-30f** | **HU-34f** |
| Rb (ppm) | 37.33 | 17.92 | 17.75 | 42.21 | 21.82 | 44.30 | 23.28 | 45.96 | 23.67 | 41.52 | 44.20 | 19.65 | 41.67 | 41.17 | 39.92 | 40.09 | 8.44 |
| Sr (ppm) | 81.95 | 34.83 | 37.68 | 75.68 | 46.52 | 87.00 | 55.96 | 87.78 | 52.11 | 79.23 | 80.14 | 44.50 | 82.85 | 62.05 | 56.62 | 70.55 | 15.62 |
| Nd (ppm) | 12.86 | 4.87 | 4.72 | 13.04 | 9.50 | 15.56 | 8.19 | 15.16 | 7.23 | 12.48 | 11.76 | 5.05 | 12.08 | 10.77 | 11.27 | 10.25 | 2.42 |
| Sm (ppm) | 2.17 | 0.92 | 0.90 | 2.13 | 2.01 | 2.50 | 1.65 | 2.53 | 1.35 | 2.12 | 1.75 | 0.98 | 2.13 | 2.47 | 3.51 | 2.22 | 0.46 |
| 87Sr/86Sr | 0.70954 | 0.71113 | 0.71077 | 0.70931 | 0.71076 | 0.71039 | 0.71046 | 0.71004 | 0.71045 | 0.71006 | 0.71011 | 0.71003 | 0.70979 | 0.70996 | 0.71050 | 0.71098 | 0.71040 |
| 2σ Sr | 0.00003 | 0.00001 | 0.00002 | 0.00003 | **0.00001** | 0.00003 | 0.00010 | 0.00003 | 0.00003 | 0.00002 | 0.00003 | 0.00001 | 0.00002 | 0.00003 | **0.00003** | 0.00004 | 0.00002 |
| 143Nd/144Nd | 0.512248 | 0.512253 |  | 0.512202 | 0.512242 | 0.512199 | N/A | 0.512215 | N/A | 0.512220 | 0.512282 | N/A | 0.512218 | 0.512218 | 0.512181 | 0.512267 | N/A |
| 2σ Nd | 0.00001 | 0.00001 | N/A | 0.00001 | 0.00001 | 0.00001 | N/A | 0.00001 | N/A | 0.00001 | 0.00001 | N/A | 0.00001 | 0.00001 | 0.00002 | 0.00001 | N/A |
| εNd | -7.6 | -7.5 | N/A | -8.5 | -7.7 | -8.6 | N/A | -8.2 | N/A | -8.2 | -6.9 | N/A | -8.2 | -8.2 | -8.9 | -7.2 | N/A |
|  | **HR-1c** | **HR-2c** | **HR-3c** | **HR-5c** | **HR-6c** | **HR-9c** | **HR-11c** | **HR-13c** | **HR-16c** | **HR-18c** | **HR-21c** | **HR-24c** | **HR-25c** | **HR-29c** | **HR-32c** | **HR-35c** | **HR-36c** |
| Rb (ppm) | 19.14 | 16.53 | 30.69 | 20.67 | 19.19 | 24.74 | 20.59 | 25.64 | 17.46 | 20.35 | 19.33 | 16.26 | 17.79 | 20.98 | 13.88 | 24.63 | 17.77 |
| Sr (ppm) | 87.48 | 77.43 | 128.29 | 94.92 | 90.23 | 120.70 | 98.35 | 111.73 | 99.59 | 104.03 | 151.91 | 90.01 | 88.84 | 104.57 | 92.34 | 131.40 | 97.72 |
| Nd (ppm) | 10.84 | 6.54 | 5.17 | 6.05 | 6.50 | 6.84 | 6.61 | 7.43 | 4.76 | 8.19 | 7.55 | 6.67 | 9.23 | 5.57 | 3.56 | 8.11 | 9.13 |
| Sm (ppm) | 3.81 | 2.36 | 1.04 | 2.35 | 2.48 | 1.36 | 2.23 | 2.43 | 0.98 | 2.71 | 2.50 | 2.57 | 3.28 | 1.12 | 0.73 | 1.59 | 3.40 |
| 87Sr/86Sr | 0.71022 | 0.71029 | 0.70988 | 0.71034 | 0.71030 | 0.71063 | 0.71020 | 0.70998 | 0.71034 | 0.70983 | 0.70898 | 0.70953 | 0.70975 | 0.71026 | 0.70974 | 0.71026 | 0.70928 |
| 2σ Sr | 0.00001 | 0.00001 | 0.00002 | 0.00001 | 0.00004 | 0.00002 | 0.00002 | 0.00001 | 0.00001 | 0.00002 | 0.00001 | 0.00001 | 0.00002 | 0.00002 | 0.00002 | 0.00002 | 0.00002 |
| 143Nd/144Nd | 0.512066 | 0.512116 | 0.512109 | 0.512174 | 0.512057 | 0.512084 | 0.512203 | 0.512204 | 0.512121 | 0.512091 | 0.512224 | 0.512149 | 0.512054 | 0.512052 | 0.512094 | 0.512092 | 0.512065 |
| 2σ Nd | 0.00002 | 0.00001 | 0.00001 | 0.00001 | 0.00002 | 0.00001 | 0.00002 | 0.00002 | 0.00002 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00003 | 0.00001 |
| εNd | -11.2 | -10.2 | -10.3 | -9.1 | -11.3 | -10.8 | -8.5 | -8.5 | -10.1 | -10.7 | -8.1 | -9.5 | -11.4 | -11.4 | -10.6 | -10.6 | -11.2 |
|  | **HR-37c** | **HR-41c** | **RB-4c** | **RB-8c** | **RB-10c** | **RB-13c** | **RB-15c** | **RB-20c** | **RB-21c** | **RB-25c** | **RB-29c** | **RB-30c** | **RB-33c** | **RB-35c** | **RB-41c** | **RB-45c** | **RB-48c** |
| Rb (ppm) | 16.47 | 20.75 | 14.34 | 13.95 | 14.83 | 17.77 | 17.27 | 17.72 | 16.66 | 18.58 | 17.27 | 22.74 | 17.37 | 17.45 | 22.85 | 18.88 | 15.24 |
| Sr (ppm) | 128.18 | 81.52 | 80.83 | 76.78 | 80.77 | 99.53 | 86.82 | 98.74 | 93.87 | 102.38 | 96.61 | 116.97 | 91.53 | 97.49 | 104.99 | 123.31 | 97.46 |
| Nd (ppm) | 8.04 | 3.41 | 5.08 | 6.84 | 7.56 | 7.31 | 4.12 | 9.25 | 8.55 | 8.51 | 9.50 | 7.84 | 7.18 | 11.40 | 5.87 | 4.30 | 9.02 |
| Sm (ppm) | 3.35 | 0.71 | 2.15 | 2.90 | 2.89 | 2.62 | 0.79 | 2.88 | 3.02 | 2.72 | 3.48 | 3.12 | 2.79 | 4.37 | 1.19 | 0.87 | 3.46 |
| 87Sr/86Sr | 0.70905 | 0.70995 | 0.70919 | 0.70928 | 0.70925 | 0.70926 | 0.71000 | 0.70921 | 0.70923 | 0.70930 | 0.70918 | 0.70930 | 0.70931 | 0.70909 | 0.71067 | 0.70938 | 0.70850 |
| 2σ Sr | 0.00001 | 0.00002 | 0.00002 | 0.00002 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00002 | 0.00002 | 0.00001 | 0.00001 | 0.00002 | 0.00001 | 0.00002 | 0.00001 |
| 143Nd/144Nd | 0.512280 | 0.512122 | 0.512165 | 0.512081 | 0.512115 | 0.512130 | 0.512135 | 0.512123 | 0.512109 | 0.512120 | 0.512102 | 0.512174 | 0.512228 | 0.512104 | 0.512197 | 0.512220 | 0.512206 |
| 2σ Nd | 0.00004 | 0.00002 | 0.00002 | 0.00001 | 0.00002 | 0.00001 | 0.00001 | 0.00002 | 0.00003 | 0.00001 | 0.00002 | 0.00002 | 0.00001 | 0.00002 | 0.00001 | 0.00001 | 0.00000 |
| εNd | -7.0 | -10.1 | -9.2 | -10.9 | -10.2 | -9.9 | -9.8 | -10.0 | -10.3 | -10.1 | -10.4 | -9.1 | -8.0 | -10.4 | -8.6 | -8.2 | -8.4 |
|  | **RB-49c** | **HU-1c** | **HU-2c** | **HU-3c** | **HU-4c** | **HU-6c** | **HU-7c** | **HU-10c** | **HU-12c** | **HU-15c** | **HU-20c** | **HU-21c** | **HU-23c** | **HU-25c** | **HU-27c** | **HU-30c** | **HU-34c** |
| Rb (ppm) | 16.19 | 19.47 | 16.29 | 17.32 | 14.75 | 16.77 | 19.49 | 17.82 | 18.70 | 17.12 | N/A | 21.21 | 19.27 | 23.05 | 17.16 | 16.76 | 16.92 |
| Sr (ppm) | 99.65 | 111.20 | 94.92 | 93.78 | 100.58 | 94.37 | 116.12 | 98.23 | 123.99 | 97.01 | N/A | 146.00 | 112.52 | 128.00 | 90.57 | 91.38 | 108.63 |
| Nd (ppm) | 9.53 | 4.70 | 4.85 | 7.54 | 3.66 | 10.47 | 4.92 | 6.23 | 5.31 | 7.12 | N/A | 5.99 | 8.49 | 8.25 | 7.68 | 9.28 | 4.60 |
| Sm (ppm) | 3.19 | 0.97 | 0.97 | 2.87 | 0.73 | 3.90 | 1.03 | 2.41 | 1.07 | 2.64 | N/A | 1.28 | 2.86 | 2.86 | 2.85 | 3.26 | 0.95 |
| 87Sr/86Sr | 0.70863 | 0.70980 | 0.71013 | 0.70929 | 0.70967 | 0.70901 | 0.70950 | 0.70921 | 0.70944 | 0.70912 | N/A | 0.70921 |  | 0.70906 |  | 0.70914 | 0.70904 |
| 2σ Sr | 0.00002 | 0.00002 | 0.00002 | 0.00002 | 0.00002 | 0.00001 | 0.00002 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00002 |
| 143Nd/144Nd | 0.512168 | 0.512091 | 0.512081 | 0.512098 | N/A | 0.512045 | 0.512076 | 0.512137 | N/A | 0.512118 | N/A | N/A | 0.512175 | 0.512133 | 0.512149 | 0.512076 | 0.512208 |
| 2σ Nd | 0.00002 | 0.00001 | 0.00001 | 0.00002 | N/A | 0.00002 | 0.00001 | 0.00001 | N/A | 0.00002 | N/A | N/A | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 |
| εNd | -9.2 | -10.7 | -10.9 | -10.5 | N/A | -11.6 | -11.0 | -9.8 | N/A | -10.1 | N/A | N/A | -9.0 | -9.9 | -9.5 | -11.0 | -8.4 |