|  |  |  |
| --- | --- | --- |
|  | GSR1(Analytical value) | G2(Analytical value) |
| SiO2  | 72.38 | 69.53 |
| TiO2  |  0.28 |  0.47 |
| Al2O3  |  13.91 | 15.17 |
| Fe2O3  |  1.97 |  2.56 |
| MnO |  0.06 |  0.03 |
| MgO |  0.32 |  0.64 |
| CaO |  1.60 |  1.99 |
| Na2O |  3.27 |  4.07 |
| K2O  |  4.99 |  4.48 |
| P2O5  |  0.10 |  0.15 |
| SUM | 98.88 | 99.09 |
| LOI |  0.75 |  0.67 |
| Ba |  356 |  1905 |
|  Cr  |  6 |  12 |
|  V  |  23 |  36 |
| Sc |  5.8 |  5 |
| Co  |  4.7 |  4.6 |
| Ni  |  3 |  5 |
| Cu  |  1 |  12 |
| Zn  |  26 |  80 |
| Ga |  18 |  24 |
| Pb |  37 |  31 |
| Th |  56 |  24 |
| U  |  18.5 |  1.6 |
| Rb | 468 |  163 |
| Sr |  107 |  474 |
| Y  |  68 |  14 |
| Zr | 162 |  318 |
| Nb |  39 |  10 |

**Major and trace elements reference values**

|  |  |  |
| --- | --- | --- |
|  |  GH (Granite)(Analytical value) |  BHVO-1(Basalt) (Analytical value) |
| La |  26.01 |  16.269 |
| Ce |  61.24 |  39.92 |
| Pr |  7.94 |  5.83 |
| Nd |  29.32 |  25.71 |
| Sm |  9.21 |  6.36 |
| Eu |  0.13 |  2.14 |
| Gd |  9.87 |  6.46 |
| Tb |  1.92 |  0.98 |
| Dy |  12.16 |  5.38 |
| Ho |  2.96 |  1.02 |
| Er |  8.22 |  2.44 |
| Tm |  1.34 |  0.33 |
| Yb |  8.05 |  2.08 |
| Lu |  1.13 |  0.29 |

**Rare Earth Elements reference values**