附表1 幕阜山花岗岩锆石U-Pb同位素测试结果

Table 1 Zircon U-Pb isotope data of the granitesat Mufushan

| 样号 | 元素含量及比值 | | | 同位素比值 | | | | 同位素年龄（Ma） | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Th | U | Th | 207Pb | 1σ | 206Pb | 1σ | 207Pb | 1σ | 206Pb | 1σ |
| U | 235U | 238U | 235U | 238U |
| 斑状黑云母二长花岗岩（20M7-2） | | | | | | | | | | | |
| 1 | 914 | 1534 | 0.60 | 0.2164 | 0.0100 | 0.0241 | 0.0004 | 198.9 | 8.4 | 153.5 | 2.3 |
| 2 | 1114 | 4803 | 0.23 | 0.1488 | 0.0029 | 0.0210 | 0.0001 | 140.9 | 2.6 | 134.0 | 0.9 |
| 3 | 225 | 360 | 0.62 | 0.1866 | 0.0085 | 0.0246 | 0.0003 | 173.7 | 7.3 | 156.6 | 1.9 |
| 4 | 419 | 614 | 0.68 | 0.1645 | 0.0057 | 0.0240 | 0.0003 | 154.6 | 5.0 | 152.7 | 1.8 |
| 5 | 443 | 1541 | 0.29 | 0.1537 | 0.0045 | 0.0218 | 0.0003 | 145.2 | 4.0 | 138.8 | 1.7 |
| 6 | 322 | 368 | 0.88 | 0.2040 | 0.0069 | 0.0242 | 0.0003 | 188.5 | 5.8 | 153.9 | 1.8 |
| 7 | 115 | 219 | 0.52 | 0.4289 | 0.0336 | 0.0514 | 0.0029 | 362.4 | 23.9 | 323.2 | 18.0 |
| 8 | 220 | 355 | 0.62 | 0.3201 | 0.0118 | 0.0335 | 0.0003 | 282.0 | 9.1 | 212.3 | 2.1 |
| 9 | 151 | 229 | 0.66 | 0.1630 | 0.0079 | 0.0232 | 0.0004 | 153.3 | 6.9 | 148.1 | 2.2 |
| 10 | 1463 | 4637 | 0.32 | 0.3294 | 0.0194 | 0.0221 | 0.0003 | 289.1 | 14.8 | 141.1 | 1.6 |
| 11 | 540 | 1773 | 0.30 | 0.1593 | 0.0041 | 0.0227 | 0.0003 | 150.1 | 3.6 | 144.4 | 1.6 |
| 12 | 559 | 935 | 0.60 | 0.1680 | 0.0059 | 0.0243 | 0.0004 | 157.7 | 5.2 | 155.1 | 2.5 |
| 13 | 410 | 664 | 0.62 | 0.1601 | 0.0058 | 0.0248 | 0.0003 | 150.8 | 5.1 | 157.9 | 1.6 |
| 14 | 1037 | 2894 | 0.36 | 0.1687 | 0.0040 | 0.0226 | 0.0002 | 158.3 | 3.5 | 143.9 | 1.5 |
| 15 | 215 | 353 | 0.61 | 0.1620 | 0.0077 | 0.0243 | 0.0003 | 152.4 | 6.7 | 154.9 | 1.7 |
| 16 | 385 | 746 | 0.52 | 0.1538 | 0.0052 | 0.0237 | 0.0002 | 145.3 | 4.6 | 151.1 | 1.5 |
| 17 | 464 | 838 | 0.55 | 0.1642 | 0.0053 | 0.0240 | 0.0002 | 154.4 | 4.6 | 152.8 | 1.5 |
| 18 | 1508 | 4804 | 0.31 | 0.1595 | 0.0029 | 0.0223 | 0.0002 | 150.2 | 2.5 | 142.0 | 1.2 |
| 19 | 240 | 282 | 0.85 | 0.1614 | 0.0081 | 0.0233 | 0.0003 | 152.0 | 7.1 | 148.8 | 1.9 |
| 20 | 130 | 199 | 0.65 | 1.1080 | 0.0333 | 0.1270 | 0.0015 | 757.2 | 16.0 | 770.8 | 8.6 |
| 21 | 73 | 410 | 0.18 | 1.2932 | 0.0331 | 0.1444 | 0.0016 | 842.7 | 14.7 | 869.5 | 9.3 |
| 22 | 159 | 282 | 0.56 | 0.3560 | 0.0174 | 0.0441 | 0.0013 | 309.2 | 13.1 | 277.9 | 7.8 |
| 23 | 1126 | 1962 | 0.57 | 0.1428 | 0.0037 | 0.0212 | 0.0002 | 135.5 | 3.3 | 135.2 | 1.1 |
| 24 | 472 | 1003 | 0.47 | 0.1613 | 0.0046 | 0.0238 | 0.0003 | 151.9 | 4.0 | 151.8 | 1.9 |
| 25 | 323 | 647 | 0.50 | 1.2224 | 0.0239 | 0.1342 | 0.0011 | 810.9 | 10.9 | 811.8 | 6.1 |
| 26 | 165 | 354 | 0.47 | 1.0585 | 0.0419 | 0.1225 | 0.0033 | 733.1 | 20.7 | 744.8 | 18.7 |
| 27 | 1477 | 4712 | 0.31 | 0.2886 | 0.0071 | 0.0235 | 0.0003 | 257.5 | 5.6 | 149.7 | 1.8 |
| 28 | 288 | 2730 | 0.11 | 0.1464 | 0.0039 | 0.0217 | 0.0002 | 138.7 | 3.5 | 138.7 | 1.6 |
| 29 | 269 | 1531 | 0.18 | 0.1716 | 0.0046 | 0.0228 | 0.0003 | 160.8 | 4.0 | 145.3 | 1.7 |
| 30 | 144 | 802 | 0.18 | 0.1475 | 0.0043 | 0.0228 | 0.0002 | 139.7 | 3.8 | 145.6 | 1.3 |
| 二云母二长花岗岩20X6-1 | | | | | | | | | | | |
| 1 | 534 | 2940 | 0.18 | 0.1473 | 0.0039 | 0.0202 | 0.0002 | 139.6 | 3.5 | 129.1 | 1.3 |
| 2 | 375 | 1561 | 0.24 | 0.1486 | 0.0052 | 0.0223 | 0.0003 | 140.7 | 4.6 | 142.0 | 2.2 |
| 3 | 569 | 1480 | 0.38 | 0.1388 | 0.0036 | 0.0208 | 0.0002 | 132.0 | 3.2 | 132.7 | 1.4 |
| 4 | 287 | 998 | 0.29 | 0.1642 | 0.0057 | 0.0241 | 0.0003 | 154.3 | 4.9 | 153.8 | 1.7 |
| 5 | 463 | 1521 | 0.30 | 0.1374 | 0.0038 | 0.0208 | 0.0002 | 130.7 | 3.4 | 132.4 | 1.4 |
| 6 | 263 | 422 | 0.62 | 0.1484 | 0.0074 | 0.0223 | 0.0003 | 140.5 | 6.5 | 142.2 | 1.7 |
| 7 | 402 | 1418 | 0.28 | 0.1375 | 0.0038 | 0.0207 | 0.0002 | 130.8 | 3.4 | 131.9 | 1.6 |
| 8 | 148 | 1576 | 0.09 | 0.1948 | 0.0091 | 0.0270 | 0.0009 | 180.7 | 7.7 | 171.9 | 5.7 |
| 9 | 485 | 1449 | 0.33 | 0.1370 | 0.0039 | 0.0208 | 0.0003 | 130.4 | 3.5 | 132.6 | 1.9 |
| 10 | 30 | 1462 | 0.02 | 0.3074 | 0.0081 | 0.0391 | 0.0006 | 272.2 | 6.3 | 247.0 | 3.6 |
| 11 | 541 | 3013 | 0.18 | 0.2145 | 0.0074 | 0.0240 | 0.0002 | 197.3 | 6.2 | 152.8 | 1.1 |
| 12 | 269 | 930 | 0.29 | 0.1546 | 0.0051 | 0.0241 | 0.0003 | 145.9 | 4.5 | 153.7 | 2.0 |
| 13 | 178 | 2011 | 0.09 | 0.1416 | 0.0042 | 0.0212 | 0.0003 | 134.5 | 3.8 | 135.1 | 1.7 |
| 14 | 227 | 332 | 0.68 | 0.1724 | 0.0082 | 0.0258 | 0.0003 | 161.5 | 7.1 | 164.1 | 2.1 |
| 15 | 299 | 328 | 0.91 | 0.1554 | 0.0083 | 0.0234 | 0.0003 | 146.6 | 7.3 | 149.1 | 2.0 |
| 16 | 190 | 1440 | 0.13 | 0.1432 | 0.0044 | 0.0212 | 0.0003 | 135.9 | 3.9 | 135.1 | 1.7 |
| 17 | 3319 | 2209 | 1.50 | 0.1426 | 0.0035 | 0.0210 | 0.0002 | 135.4 | 3.1 | 134.2 | 1.5 |
| 18 | 42 | 434 | 0.10 | 1.0982 | 0.0385 | 0.1226 | 0.0031 | 752.5 | 18.7 | 745.3 | 17.6 |
| 19 | 382 | 1273 | 0.30 | 0.1460 | 0.0080 | 0.0218 | 0.0003 | 138.4 | 7.0 | 139.3 | 1.9 |
| 20 | 3073 | 1812 | 1.70 | 0.1595 | 0.0076 | 0.0221 | 0.0003 | 150.2 | 6.7 | 140.9 | 1.8 |
| 21 | 1032 | 1724 | 0.60 | 0.1477 | 0.0080 | 0.0217 | 0.0003 | 139.9 | 7.1 | 138.7 | 1.8 |
| 22 | 726 | 948 | 0.77 | 0.2217 | 0.0126 | 0.0298 | 0.0007 | 203.3 | 10.5 | 189.1 | 4.1 |
| 23 | 387 | 1215 | 0.32 | 0.1509 | 0.0076 | 0.0222 | 0.0003 | 142.7 | 6.7 | 141.7 | 1.9 |
| 24 | 277 | 1018 | 0.27 | 0.1570 | 0.0090 | 0.0231 | 0.0003 | 148.1 | 7.9 | 147.2 | 2.0 |
| 25 | 722 | 1590 | 0.45 | 0.1471 | 0.0061 | 0.0215 | 0.0003 | 139.3 | 5.4 | 137.4 | 1.7 |
| 26 | 421 | 1373 | 0.31 | 0.1601 | 0.0081 | 0.0217 | 0.0003 | 150.8 | 7.1 | 138.3 | 1.8 |
| 27 | 927 | 1892 | 0.49 | 0.1495 | 0.0071 | 0.0225 | 0.0003 | 141.5 | 6.3 | 143.5 | 2.1 |
| 28 | 159 | 1449 | 0.11 | 0.1630 | 0.0089 | 0.0239 | 0.0004 | 153.4 | 7.8 | 152.5 | 2.4 |
| 29 | 658 | 1613 | 0.41 | 0.1474 | 0.0065 | 0.0221 | 0.0003 | 139.6 | 5.8 | 140.6 | 2.0 |
| 30 | 340 | 1769 | 0.19 | 0.1480 | 0.0069 | 0.0211 | 0.0003 | 140.2 | 6.1 | 134.7 | 1.9 |
| 31 | 275 | 2053 | 0.13 | 0.1661 | 0.0076 | 0.0224 | 0.0003 | 156.0 | 6.6 | 143.0 | 1.6 |
| 32 | 381 | 2181 | 0.17 | 0.1567 | 0.0070 | 0.0233 | 0.0003 | 147.8 | 6.2 | 148.2 | 1.6 |
| 33 | 120 | 989 | 0.12 | 0.1533 | 0.0140 | 0.0231 | 0.0003 | 144.8 | 12.3 | 147.3 | 2.2 |
| 34 | 288 | 1008 | 0.29 | 0.1439 | 0.0076 | 0.0215 | 0.0003 | 136.5 | 6.8 | 137.1 | 2.0 |
| 石榴石白云母二长花岗岩20M2-1 | | | | | | | | | | | |
| 1 | 345 | 1168 | 0.30 | 0.2871 | 0.0086 | 0.0284 | 0.0004 | 256.3 | 6.8 | 180.5 | 2.7 |
| 2 | 389 | 3830 | 0.10 | 0.1850 | 0.0041 | 0.0190 | 0.0002 | 172.3 | 3.5 | 121.6 | 1.2 |
| 3 | 200 | 535 | 0.37 | 0.2319 | 0.0097 | 0.0272 | 0.0004 | 211.7 | 8.0 | 173.3 | 2.2 |
| 4 | 411 | 1226 | 0.33 | 0.7159 | 0.0139 | 0.0760 | 0.0010 | 548.2 | 8.2 | 471.9 | 6.0 |
| 5 | 635 | 3245 | 0.20 | 0.1534 | 0.0035 | 0.0206 | 0.0002 | 145.0 | 3.1 | 131.2 | 1.2 |
| 6 | 2802 | 7593 | 0.37 | 0.2010 | 0.0046 | 0.0188 | 0.0003 | 185.9 | 3.9 | 120.3 | 2.1 |
| 7 | 570 | 654 | 0.87 | 0.2461 | 0.0102 | 0.0201 | 0.0004 | 223.4 | 8.3 | 128.5 | 2.4 |
| 8 | 120 | 224 | 0.54 | 0.5668 | 0.0199 | 0.0720 | 0.0009 | 456.0 | 12.9 | 448.4 | 5.5 |
| 9 | 625 | 1800 | 0.35 | 0.1899 | 0.0062 | 0.0208 | 0.0003 | 176.6 | 5.3 | 132.9 | 1.7 |
| 10 | 120 | 796 | 0.15 | 1.1423 | 0.0211 | 0.1268 | 0.0011 | 773.6 | 10.0 | 769.8 | 6.5 |
| 11 | 50 | 1624 | 0.03 | 0.1507 | 0.0040 | 0.0225 | 0.0003 | 142.6 | 3.5 | 143.3 | 1.8 |
| 12 | 378 | 817 | 0.46 | 1.2160 | 0.0238 | 0.1328 | 0.0015 | 808.0 | 10.9 | 803.6 | 8.5 |
| 13 | 484 | 2358 | 0.21 | 0.1442 | 0.0038 | 0.0214 | 0.0002 | 136.8 | 3.4 | 136.5 | 1.2 |
| 14 | 401 | 319 | 1.26 | 0.1405 | 0.0123 | 0.0207 | 0.0004 | 133.5 | 11.0 | 132.0 | 2.6 |
| 15 | 585 | 2117 | 0.28 | 0.1496 | 0.0072 | 0.0218 | 0.0003 | 141.6 | 6.3 | 138.8 | 1.7 |
| 16 | 374 | 9710 | 0.04 | 0.1578 | 0.0047 | 0.0213 | 0.0002 | 148.7 | 4.1 | 136.0 | 1.3 |
| 17 | 70 | 734 | 0.10 | 0.7008 | 0.0297 | 0.0838 | 0.0021 | 539.3 | 17.7 | 518.8 | 12.4 |
| 18 | 86 | 466 | 0.19 | 1.2090 | 0.0433 | 0.1330 | 0.0015 | 804.7 | 19.9 | 804.8 | 8.4 |
| 19 | 331 | 1649 | 0.20 | 0.6130 | 0.0231 | 0.0692 | 0.0008 | 485.4 | 14.5 | 431.5 | 5.1 |
| 电气石白云母二长花岗岩20M1 | | | | | | | | | | | |
| 1 | 187 | 799 | 0.23 | 1.2533 | 0.0265 | 0.1356 | 0.0011 | 824.9 | 11.9 | 819.6 | 6.3 |
| 2 | 430 | 1030 | 0.42 | 0.1536 | 0.0050 | 0.0223 | 0.0003 | 145.1 | 4.4 | 142.4 | 1.8 |
| 3 | 100 | 1001 | 0.10 | 1.1126 | 0.0223 | 0.1229 | 0.0014 | 759.4 | 10.7 | 747.0 | 7.8 |
| 4 | 483 | 535 | 0.90 | 0.1677 | 0.0069 | 0.0246 | 0.0003 | 157.4 | 6.0 | 156.9 | 1.7 |
| 5 | 53 | 487 | 0.11 | 1.1991 | 0.0264 | 0.1312 | 0.0014 | 800.2 | 12.2 | 794.8 | 7.8 |
| 6 | 1570 | 2371 | 0.66 | 0.1379 | 0.0033 | 0.0203 | 0.0002 | 131.1 | 3.0 | 129.8 | 1.0 |
| 7 | 439 | 1015 | 0.43 | 0.2519 | 0.0098 | 0.0204 | 0.0004 | 228.1 | 7.9 | 130.1 | 2.5 |
| 8 | 213 | 255 | 0.84 | 1.2553 | 0.0334 | 0.1353 | 0.0015 | 825.8 | 15.0 | 817.8 | 8.4 |
| 9 | 274 | 628 | 0.44 | 2.3402 | 0.0793 | 0.1880 | 0.0053 | 1224.6 | 24.1 | 1110.4 | 28.8 |
| 10 | 367 | 339 | 1.08 | 4.1185 | 1.8188 | 0.0590 | 0.0176 | 1658.0 | 360.8 | 369.7 | 106.9 |
| 11 | 175 | 459 | 0.38 | 1.3169 | 0.0238 | 0.1401 | 0.0013 | 853.1 | 10.4 | 845.3 | 7.1 |
| 12 | 944 | 808 | 1.17 | 0.1536 | 0.0047 | 0.0196 | 0.0003 | 145.1 | 4.1 | 125.0 | 2.1 |
| 13 | 242 | 1512 | 0.16 | 0.1445 | 0.0068 | 0.0197 | 0.0003 | 137.1 | 6.1 | 126.0 | 2.1 |
| 14 | 172 | 491 | 0.35 | 0.7325 | 0.0189 | 0.0807 | 0.0012 | 558.0 | 11.1 | 500.1 | 7.0 |
| 15 | 50 | 647 | 0.08 | 1.1375 | 0.0234 | 0.1261 | 0.0017 | 771.3 | 11.1 | 765.7 | 9.7 |
| 16 | 148 | 1079 | 0.14 | 0.3867 | 0.0088 | 0.0464 | 0.0006 | 332.0 | 6.5 | 292.6 | 3.6 |
| 17 | 432 | 428 | 1.01 | 0.1657 | 0.0093 | 0.0242 | 0.0004 | 155.7 | 8.1 | 154.2 | 2.2 |
| 18 | 155 | 404 | 0.38 | 1.1930 | 0.0256 | 0.1327 | 0.0014 | 797.4 | 11.9 | 803.1 | 8.0 |
| 19 | 1423 | 1766 | 0.81 | 0.7768 | 0.0152 | 0.0865 | 0.0010 | 583.6 | 8.7 | 534.8 | 5.9 |
| 20 | 263 | 334 | 0.79 | 1.2547 | 0.0280 | 0.1364 | 0.0013 | 825.5 | 12.6 | 824.4 | 7.3 |
| 21 | 273 | 783 | 0.35 | 1.0073 | 0.0219 | 0.1113 | 0.0012 | 707.5 | 11.1 | 680.0 | 6.7 |
| 22 | 118 | 597 | 0.20 | 1.1426 | 0.0252 | 0.1262 | 0.0010 | 773.7 | 11.9 | 766.1 | 5.9 |
| 23 | 50 | 450 | 0.11 | 1.2588 | 0.0274 | 0.1373 | 0.0012 | 827.4 | 12.3 | 829.3 | 6.8 |
| 24 | 401 | 687 | 0.58 | 0.1530 | 0.0048 | 0.0227 | 0.0002 | 144.5 | 4.3 | 144.5 | 1.3 |
| 25 | 696 | 2347 | 0.30 | 0.2171 | 0.0058 | 0.0285 | 0.0003 | 199.5 | 4.9 | 181.3 | 1.9 |
| 26 | 317 | 1439 | 0.22 | 0.1556 | 0.0038 | 0.0230 | 0.0002 | 146.8 | 3.3 | 146.9 | 1.6 |
| 27 | 43 | 370 | 0.12 | 1.1267 | 0.0246 | 0.1203 | 0.0010 | 766.2 | 11.8 | 732.4 | 5.7 |
| 28 | 459 | 390 | 1.18 | 0.1504 | 0.0074 | 0.0215 | 0.0003 | 142.2 | 6.6 | 136.9 | 1.7 |
| 29 | 141 | 182 | 0.78 | 1.3892 | 0.0684 | 0.1445 | 0.0021 | 884.4 | 29.1 | 870.1 | 11.8 |
| 30 | 441 | 941 | 0.47 | 0.1608 | 0.0087 | 0.0229 | 0.0004 | 151.4 | 7.6 | 145.9 | 2.3 |
| 31 | 670 | 740 | 0.91 | 1.2267 | 0.0408 | 0.1305 | 0.0017 | 812.8 | 18.6 | 790.9 | 9.8 |
| 32 | 128 | 720 | 0.18 | 1.2869 | 0.0467 | 0.1379 | 0.0024 | 839.9 | 20.7 | 832.5 | 13.4 |
| 33 | 558 | 383 | 1.46 | 1.1224 | 0.0417 | 0.1170 | 0.0015 | 764.1 | 19.9 | 713.0 | 8.4 |
| 34 | 119 | 326 | 0.36 | 1.0868 | 0.0403 | 0.1212 | 0.0017 | 746.9 | 19.6 | 737.6 | 9.7 |
| 35 | 227 | 295 | 0.77 | 0.1583 | 0.0120 | 0.0231 | 0.0006 | 149.2 | 10.5 | 147.3 | 3.7 |
| 36 | 280 | 367 | 0.76 | 0.1853 | 0.0139 | 0.0267 | 0.0006 | 172.6 | 11.9 | 169.8 | 3.7 |
| 37 | 417 | 1367 | 0.30 | 0.1475 | 0.0072 | 0.0218 | 0.0003 | 139.7 | 6.4 | 138.8 | 1.9 |
| 38 | 2147 | 6470 | 0.33 | 0.1528 | 0.0049 | 0.0220 | 0.0003 | 144.4 | 4.4 | 140.2 | 2.1 |
| 39 | 697 | 1813 | 0.38 | 0.1426 | 0.0063 | 0.0212 | 0.0003 | 135.4 | 5.6 | 135.3 | 1.8 |
| 40 | 52 | 406 | 0.13 | 1.1512 | 0.0412 | 0.1225 | 0.0015 | 777.8 | 19.4 | 744.9 | 8.6 |
| 41 | 225 | 1150 | 0.20 | 0.9202 | 0.0298 | 0.1027 | 0.0010 | 662.5 | 15.7 | 630.4 | 6.1 |
| 42 | 480 | 399 | 1.20 | 1.2331 | 0.0507 | 0.1360 | 0.0017 | 815.8 | 23.1 | 821.7 | 9.5 |
| 43 | 254 | 289 | 0.88 | 0.1855 | 0.0132 | 0.0243 | 0.0006 | 172.8 | 11.3 | 154.8 | 3.9 |
| 44 | 106 | 229 | 0.47 | 1.2465 | 0.0496 | 0.1293 | 0.0018 | 821.8 | 22.4 | 783.8 | 10.1 |
| 45 | 1113 | 6739 | 0.17 | 0.1780 | 0.0065 | 0.0211 | 0.0003 | 166.3 | 5.6 | 134.8 | 1.8 |
| 46 | 238 | 389 | 0.61 | 0.2092 | 0.0180 | 0.0235 | 0.0005 | 192.9 | 15.1 | 149.6 | 2.9 |
| 47 | 70 | 261 | 0.27 | 1.2127 | 0.0509 | 0.1338 | 0.0016 | 806.5 | 23.4 | 809.7 | 9.0 |
| 48 | 165 | 615 | 0.27 | 1.3421 | 0.0475 | 0.1420 | 0.0020 | 864.2 | 20.6 | 855.7 | 11.2 |
| 白云母二长花岗岩20L2-1 | | | | | | | | | | | |
| 1 | 213 | 181 | 1.18 | 0.1393 | 0.0079 | 0.0220 | 0.0004 | 132.4 | 7.0 | 140.4 | 2.8 |
| 2 | 66 | 145 | 0.46 | 1.2854 | 0.0406 | 0.1433 | 0.0024 | 839.3 | 18.1 | 863.6 | 13.6 |
| 3 | 136 | 209 | 0.65 | 0.1472 | 0.0083 | 0.0218 | 0.0004 | 139.4 | 7.4 | 138.8 | 2.5 |
| 4 | 753 | 768 | 0.98 | 0.1572 | 0.0060 | 0.0236 | 0.0003 | 148.3 | 5.3 | 150.2 | 1.6 |
| 5 | 507 | 482 | 1.05 | 0.1527 | 0.0063 | 0.0218 | 0.0003 | 144.3 | 5.5 | 139.0 | 1.9 |
| 6 | 427 | 513 | 0.83 | 0.1473 | 0.0056 | 0.0212 | 0.0002 | 139.5 | 4.9 | 135.4 | 1.5 |
| 7 | 394 | 1068 | 0.37 | 0.1441 | 0.0041 | 0.0220 | 0.0002 | 136.7 | 3.7 | 140.5 | 1.4 |
| 8 | 674 | 487 | 1.38 | 1.2616 | 0.0941 | 0.0290 | 0.0008 | 828.6 | 42.3 | 184.1 | 5.1 |
| 9 | 375 | 587 | 0.64 | 0.1671 | 0.0063 | 0.0246 | 0.0002 | 156.9 | 5.5 | 156.8 | 1.5 |
| 10 | 729 | 419 | 1.74 | 0.1716 | 0.0085 | 0.0227 | 0.0003 | 160.8 | 7.4 | 144.8 | 1.8 |
| 11 | 74 | 585 | 0.13 | 0.4131 | 0.0144 | 0.0461 | 0.0005 | 351.1 | 10.4 | 290.3 | 3.3 |
| 12 | 373 | 359 | 1.04 | 0.1577 | 0.0077 | 0.0226 | 0.0002 | 148.7 | 6.7 | 144.1 | 1.6 |
| 13 | 545 | 1166 | 0.47 | 0.2212 | 0.0101 | 0.0192 | 0.0008 | 202.9 | 8.4 | 122.8 | 4.9 |
| 14 | 745 | 509 | 1.46 | 0.1727 | 0.0080 | 0.0224 | 0.0002 | 161.7 | 6.9 | 142.5 | 1.5 |
| 15 | 327 | 748 | 0.44 | 0.1473 | 0.0056 | 0.0215 | 0.0002 | 139.5 | 5.0 | 137.2 | 1.4 |
| 16 | 230 | 360 | 0.64 | 0.1598 | 0.0087 | 0.0232 | 0.0003 | 150.6 | 7.7 | 147.7 | 2.0 |
| 17 | 185 | 289 | 0.64 | 0.1485 | 0.0087 | 0.0231 | 0.0003 | 140.6 | 7.7 | 147.3 | 2.2 |
| 18 | 99 | 1206 | 0.08 | 0.1427 | 0.0048 | 0.0209 | 0.0003 | 135.4 | 4.2 | 133.2 | 1.9 |
| 19 | 119 | 134 | 0.89 | 0.1462 | 0.0105 | 0.0211 | 0.0004 | 138.6 | 9.3 | 134.3 | 2.8 |
| 20 | 193 | 208 | 0.93 | 0.1419 | 0.0084 | 0.0220 | 0.0003 | 134.7 | 7.5 | 140.1 | 2.0 |

附表2 幕阜山花岗岩锆石微量元素数据表（ppm）

Table 2 Trace elements of zircon from the granites at Mufushan (ppm)

| 样号 | P | Ti | Y | Nb | La | Ce | Pr | Nd | Sm | Eu | Gd | Tb | Dy | Ho | Er | Tm | Yb | Lu | Hf | Ta |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 斑状黑云母二长花岗岩20M7-2 | | | | | | | | | | | | | | | | | | | | |
| 3 | 463 | 4.73 | 433 | 1.81 | 0.71 | 19.3 | 0.25 | 1.91 | 2.35 | 0.59 | 12.4 | 4.21 | 47.6 | 18.7 | 82.8 | 20.4 | 188 | 39.5 | 11631 | 0.92 |
| 5 | 571 | 6.89 | 1071 | 4.65 | 0.04 | 18.0 | 0.14 | 2.18 | 6.45 | 0.98 | 35.5 | 11.7 | 128 | 48.1 | 196 | 45.2 | 393 | 72.8 | 13034 | 1.68 |
| 6 | 516 | 9.82 | 434 | 0.71 | 0.15 | 10.1 | 0.51 | 7.95 | 12.4 | 1.48 | 39.2 | 9.12 | 69.2 | 20.5 | 71.6 | 14.3 | 118 | 22.4 | 10386 | 0.26 |
| 9 | 597 | 10.6 | 476 | 1.14 | 0.01 | 8.45 | 0.14 | 2.73 | 4.75 | 1.02 | 21.7 | 6.14 | 60.0 | 22.5 | 91.7 | 20.5 | 183 | 37.3 | 10380 | 0.52 |
| 11 | 598 | 2.13 | 1254 | 3.98 | 0.01 | 30.5 | 0.10 | 1.75 | 6.49 | 1.61 | 39.4 | 13.6 | 151 | 56.1 | 228 | 52.2 | 442 | 79.3 | 12213 | 2.12 |
| 13 | 593 | 10.0 | 620 | 1.19 | 0.04 | 9.94 | 0.43 | 6.96 | 12.8 | 1.38 | 43.5 | 10.9 | 91.8 | 30.1 | 109 | 23.3 | 195 | 37.0 | 10852 | 0.39 |
| 16 | 623 | 12.7 | 675 | 1.71 | 0.02 | 10.1 | 0.27 | 4.14 | 9.73 | 1.03 | 37.1 | 10.1 | 90.4 | 31.8 | 122 | 26.8 | 226 | 44.1 | 10996 | 0.57 |
| 17 | 650 | 10.5 | 815 | 2.79 | 0.04 | 15.5 | 0.32 | 5.36 | 10.0 | 1.68 | 45.0 | 12.4 | 117 | 38.5 | 145 | 31.0 | 258 | 47.6 | 10685 | 0.88 |
| 19 | 487 | 13.0 | 367 | 0.60 | 0.02 | 14.5 | 0.19 | 2.78 | 5.43 | 2.07 | 22.3 | 5.74 | 53.2 | 16.8 | 61.5 | 12.2 | 103 | 19.1 | 8825 | 0.15 |
| 23 | 662 | 5.69 | 1662 | 11.9 | 0.53 | 60.5 | 0.36 | 4.15 | 8.79 | 2.23 | 49.4 | 17.7 | 194 | 72.0 | 283 | 62.3 | 527 | 96.4 | 10517 | 3.80 |
| 24 | 617 | 8.18 | 1191 | 3.74 | 0.01 | 24.2 | 0.16 | 2.41 | 6.89 | 1.57 | 39.5 | 13.5 | 150 | 55.6 | 218 | 47.5 | 406 | 72.3 | 11112 | 1.43 |
| 28 | 687 | 2.62 | 1482 | 6.50 | 0.01 | 14.5 | 0.03 | 0.46 | 2.99 | 0.74 | 26.0 | 11.8 | 154 | 63.1 | 277 | 67.8 | 609 | 111 | 15580 | 4.31 |
| 30 | 498 | 6.36 | 811 | 2.73 | 0.00 | 7.52 | 0.05 | 1.18 | 4.69 | 1.58 | 30.5 | 10.5 | 111 | 37.9 | 143 | 30.2 | 257 | 48.5 | 12385 | 0.97 |
| 二云母二长花岗岩20X6-1（132.7 Ma） | | | | | | | | | | | | | | | | | | | | |
| 3 | 634 | 7.95 | 1368 | 2.17 | 0.94 | 14.3 | 0.51 | 5.11 | 9.47 | 1.41 | 45.4 | 13.7 | 138 | 42.6 | 182 | 35.3 | 323 | 57.2 | 10797 | 1.13 |
| 5 | 885 | 9.01 | 2166 | 4.29 | 0.02 | 10.4 | 0.17 | 3.56 | 9.92 | 0.92 | 54.1 | 18.9 | 202 | 64.4 | 263 | 49.0 | 431 | 74.5 | 11529 | 1.40 |
| 7 | 854 | 9.99 | 1933 | 4.12 | 0.40 | 11.1 | 0.34 | 4.28 | 9.56 | 0.85 | 50.3 | 16.7 | 184 | 58.7 | 240 | 46.4 | 413 | 69.6 | 11718 | 1.50 |
| 9 | 793 | 10.3 | 1915 | 3.30 | 0.04 | 10.0 | 0.26 | 3.99 | 10.6 | 1.03 | 54.5 | 17.6 | 189 | 59.5 | 237 | 45.4 | 396 | 66.2 | 11826 | 1.23 |
| 13 | 587 | 1.69 | 1238 | 3.31 | 0.12 | 3.98 | 0.03 | 0.64 | 2.51 | 0.29 | 21.4 | 8.73 | 109 | 37.3 | 168 | 35.6 | 346 | 57.7 | 16699 | 1.82 |
| 16 | 618 | 5.63 | 1043 | 2.43 | 0.27 | 8.80 | 0.16 | 1.64 | 3.55 | 0.57 | 19.4 | 7.11 | 88.0 | 31.0 | 144 | 31.8 | 317 | 56.0 | 12406 | 1.58 |
| 30 | 1088 | 8.27 | 2003 | 4.08 | 0.04 | 7.94 | 0.22 | 2.37 | 7.20 | 0.60 | 44.8 | 16.7 | 190 | 60.9 | 264 | 51.5 | 508 | 82.8 | 12913 | 2.11 |
| 二云母二长花岗岩20X6-1（140.4 Ma） | | | | | | | | | | | | | | | | | | | | |
| 2 | 559 | 7.56 | 1152 | 2.57 | 0.02 | 9.60 | 0.07 | 1.48 | 4.74 | 0.83 | 28.2 | 10.0 | 107 | 35.9 | 154 | 32.0 | 316 | 55.1 | 11602 | 1.52 |
| 6 | 592 | 6.65 | 850 | 0.99 | 0.05 | 10.6 | 0.15 | 2.75 | 5.56 | 1.30 | 25.6 | 8.11 | 81.7 | 26.8 | 110 | 21.8 | 206 | 37.5 | 9172 | 0.48 |
| 23 | 989 | 11.1 | 1746 | 3.09 | 0.59 | 9.75 | 0.25 | 4.61 | 8.48 | 0.76 | 47.7 | 16.0 | 174 | 54.0 | 227 | 42.3 | 397 | 66.3 | 12626 | 1.06 |
| 25 | 1228 | 10.0 | 2381 | 4.64 | 0.03 | 12.9 | 0.37 | 4.38 | 13.3 | 1.27 | 70.9 | 22.5 | 242 | 72.6 | 296 | 53.3 | 500 | 81.1 | 11967 | 1.53 |
| 27 | 1115 | 10.6 | 2175 | 5.77 | 0.84 | 18.7 | 0.45 | 5.22 | 10.1 | 1.36 | 72.5 | 21.3 | 228 | 67.6 | 275 | 51.3 | 473 | 74.9 | 11750 | 1.66 |
| 29 | 1085 | 13.9 | 2296 | 4.58 | 0.15 | 13.2 | 0.27 | 5.06 | 12.9 | 0.99 | 65.2 | 21.0 | 231 | 70.0 | 287 | 53.3 | 497 | 80.8 | 12092 | 1.50 |
| 31 | 771 | 3.28 | 1150 | 2.54 | 0.49 | 9.18 | 0.67 | 4.78 | 4.72 | 0.94 | 27.7 | 9.81 | 109 | 34.6 | 151 | 29.7 | 292 | 45.8 | 13724 | 1.52 |
| 34 | 766 | 6.07 | 1471 | 2.56 | 0.49 | 7.64 | 0.17 | 1.93 | 6.91 | 0.53 | 35.9 | 13.5 | 144 | 45.6 | 192 | 37.2 | 358 | 60.5 | 12830 | 1.24 |
| 二云母二长花岗岩20X6-1（151.1 Ma） | | | | | | | | | | | | | | | | | | | | |
| 12 | 388 | 2.00 | 894 | 2.87 | 0.01 | 14.9 | 0.05 | 1.10 | 2.54 | 0.81 | 14.6 | 5.26 | 65.2 | 25.9 | 132 | 30.2 | 323 | 66.4 | 13535 | 1.85 |
| 15 | 666 | 18.2 | 1515 | 1.86 | 0.03 | 10.4 | 0.28 | 3.71 | 6.88 | 1.62 | 30.8 | 10.2 | 129 | 47.9 | 217 | 43.6 | 405 | 74.5 | 8120 | 0.43 |
| 32 | 694 | 7.79 | 1484 | 4.42 | 0.18 | 11.5 | 0.35 | 3.12 | 5.02 | 1.00 | 28.8 | 10.6 | 123 | 43.9 | 213 | 47.1 | 514 | 86.5 | 12699 | 3.12 |
| 33 | 430 | 3.69 | 566 | 1.24 | 0.19 | 4.00 | 0.06 | 1.08 | 3.13 | 0.21 | 12.3 | 4.74 | 53.4 | 16.8 | 75.4 | 16.5 | 171 | 29.8 | 13134 | 0.90 |
| 石榴子石白云母二长花岗岩20M2-1 | | | | | | | | | | | | | | | | | | | | |
| 15 | 1341 | 0.97 | 2110 | 4.96 | 0.10 | 8.32 | 0.20 | 3.85 | 10.0 | 1.00 | 68.1 | 21.7 | 233 | 66.9 | 263 | 46.2 | 414 | 66.2 | 12585 | 1.82 |
| 11 | 876 | 4.55 | 1507 | 2.17 | 0.03 | 1.44 | 0.06 | 0.45 | 2.61 | 0.21 | 23.8 | 10.8 | 129 | 40.8 | 172 | 36.2 | 341 | 62.1 | 14328 | 2.48 |
| 电气石白云母二长花岗岩20M1 | | | | | | | | | | | | | | | | | | | | |
| 2 | 452 | 5.96 | 1047 | 5.12 | 0.09 | 23.6 | 0.11 | 1.47 | 3.31 | 1.39 | 20.3 | 7.63 | 88.8 | 31.9 | 143 | 28.5 | 273 | 49.2 | 13098 | 7.89 |
| 26 | 502 | 3.02 | 1603 | 7.47 | 0.00 | 19.8 | 0.02 | 0.55 | 2.35 | 0.90 | 22.8 | 9.33 | 125 | 49.1 | 237 | 52.6 | 525 | 98.2 | 12941 | 3.62 |
| 30 | 961 | 7.28 | 1062 | 2.54 | 0.05 | 18.1 | 0.16 | 2.95 | 7.52 | 1.08 | 40.3 | 10.3 | 111 | 32.9 | 142 | 27.4 | 272 | 46.4 | 11829 | 0.86 |
| 37 | 673 | 8.36 | 1152 | 3.94 | 0.00 | 15.3 | 0.12 | 2.64 | 6.89 | 0.93 | 37.0 | 10.8 | 117 | 35.2 | 150 | 29.2 | 278 | 47.5 | 13002 | 1.30 |
| 39 | 884 | 9.94 | 1561 | 4.73 | 0.52 | 22.4 | 0.30 | 4.76 | 9.03 | 1.34 | 52.7 | 15.9 | 162 | 49.3 | 205 | 38.3 | 353 | 56.8 | 12524 | 1.69 |
| 白云母二长花岗岩20L2-1 | | | | | | | | | | | | | | | | | | | | |
| 1 | 679 | 8.36 | 678 | 1.22 | 0.02 | 17.6 | 0.27 | 4.36 | 7.96 | 2.11 | 36.7 | 10.6 | 95.7 | 31.3 | 112 | 22.8 | 183 | 33.8 | 10758 | 0.35 |
| 3 | 559 | 6.00 | 466 | 0.82 | 0.00 | 12.2 | 0.08 | 1.77 | 4.44 | 0.68 | 22.7 | 6.57 | 64.3 | 21.7 | 80.4 | 17.1 | 145 | 27.9 | 12574 | 0.49 |
| 5 | 630 | 9.75 | 794 | 1.41 | 0.05 | 19.7 | 0.43 | 6.68 | 13.0 | 2.51 | 54.4 | 13.6 | 120 | 37.6 | 130 | 25.8 | 206 | 37.1 | 10402 | 0.50 |
| 6 | 584 | 9.39 | 852 | 1.54 | 0.04 | 18.2 | 0.51 | 7.30 | 13.7 | 1.91 | 52.2 | 13.7 | 122 | 40.8 | 145 | 29.0 | 236 | 43.3 | 11513 | 0.69 |
| 7 | 653 | 9.81 | 975 | 4.20 | 0.02 | 16.5 | 0.21 | 3.35 | 8.95 | 1.15 | 45.6 | 13.7 | 132 | 45.7 | 167 | 35.6 | 291 | 54.2 | 12413 | 1.37 |
| 9 | 370 | 1.84 | 561 | 2.68 | 0.01 | 21.8 | 0.08 | 1.11 | 2.84 | 0.88 | 16.1 | 5.43 | 59.6 | 24.5 | 110 | 27.4 | 256 | 54.2 | 12288 | 1.24 |
| 12 | 460 | 11.7 | 429 | 0.97 | 0.07 | 33.0 | 0.53 | 8.92 | 11.7 | 2.28 | 32.5 | 8.09 | 65.4 | 20.2 | 71.9 | 14.5 | 123 | 22.8 | 10926 | 0.37 |
| 15 | 652 | 8.89 | 906 | 3.18 | 0.01 | 18.2 | 0.16 | 3.00 | 7.59 | 0.93 | 35.9 | 11.8 | 120 | 41.9 | 159 | 33.4 | 271 | 49.6 | 13499 | 0.88 |
| 16 | 433 | 4.09 | 599 | 1.59 | 0.50 | 17.5 | 0.26 | 2.42 | 3.98 | 0.95 | 18.9 | 6.07 | 67.0 | 26.8 | 115 | 28.7 | 275 | 57.8 | 11986 | 0.71 |
| 17 | 518 | 8.30 | 430 | 1.34 | 0.00 | 14.5 | 0.13 | 2.13 | 5.72 | 1.01 | 22.5 | 6.15 | 58.1 | 19.9 | 78.1 | 16.8 | 149 | 28.5 | 11106 | 0.56 |
| 18 | 490 | 4.75 | 492 | 2.61 | 0.00 | 4.17 | 0.02 | 0.38 | 1.62 | 0.31 | 13.7 | 5.75 | 63.1 | 22.2 | 85.9 | 19.0 | 153 | 25.9 | 21835 | 1.73 |
| 19 | 414 | 11.7 | 385 | 0.52 | 0.03 | 9.44 | 0.21 | 4.29 | 6.31 | 1.78 | 22.1 | 5.33 | 52.3 | 18.0 | 72.5 | 15.4 | 133 | 26.5 | 9048 | 0.22 |
| 20 | 468 | 7.98 | 403 | 0.76 | 0.01 | 13.1 | 0.21 | 4.15 | 7.76 | 1.60 | 31.0 | 7.57 | 61.6 | 18.7 | 63.3 | 12.6 | 100 | 18.6 | 11104 | 0.34 |

附表3 幕阜山花岗岩锆石微量元素比值以及温度计算结果表

Table 3 Trace characteristic values and crystallization temperatures of zircon from the granites at Mufushan

| 样号 | Ce/Ce\* | Eu/Eu\* | Yb/Gd | Y/Yb | Dy/Yb | Ce/Sm | 温度T(K) | 温度T(℃) | ΣREE | LREE | HREE | LREE/HREE |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 斑状黑云母二长花岗岩20M7-2 | | | | | | | | | | | | |
| 3 | 11.2 | 0.33 | 15.1 | 2.31 | 0.25 | 8.20 | 997 | 724 | 439 | 25.1 | 413 | 0.06 |
| 5 | 58.2 | 0.20 | 11.0 | 2.73 | 0.33 | 2.80 | 1032 | 759 | 958 | 27.8 | 930 | 0.03 |
| 6 | 9.0 | 0.21 | 3.0 | 3.68 | 0.59 | 0.81 | 1067 | 794 | 397 | 32.6 | 364 | 0.09 |
| 9 | 63.9 | 0.31 | 8.5 | 2.60 | 0.33 | 1.78 | 1076 | 803 | 460 | 17.1 | 443 | 0.04 |
| 11 | 199.7 | 0.31 | 11.2 | 2.84 | 0.34 | 4.70 | 930 | 657 | 1102 | 40.5 | 1062 | 0.04 |
| 13 | 18.7 | 0.18 | 4.5 | 3.19 | 0.47 | 0.78 | 1069 | 796 | 572 | 31.6 | 540 | 0.06 |
| 16 | 33.3 | 0.17 | 6.1 | 2.99 | 0.40 | 1.04 | 1094 | 821 | 614 | 25.3 | 588 | 0.04 |
| 17 | 32.1 | 0.24 | 5.7 | 3.16 | 0.45 | 1.55 | 1075 | 802 | 727 | 32.9 | 694 | 0.05 |
| 19 | 62.9 | 0.57 | 4.6 | 3.56 | 0.52 | 2.67 | 1097 | 824 | 319 | 25.0 | 294 | 0.09 |
| 23 | 33.8 | 0.33 | 10.7 | 3.15 | 0.37 | 6.88 | 1014 | 741 | 1378 | 76.5 | 1302 | 0.06 |
| 24 | 128.4 | 0.29 | 10.3 | 2.93 | 0.37 | 3.52 | 1049 | 776 | 1038 | 35.3 | 1003 | 0.04 |
| 28 | 205.8 | 0.26 | 23.4 | 2.43 | 0.25 | 4.85 | 947 | 674 | 1338 | 18.7 | 1320 | 0.01 |
| 30 | 136.3 | 0.40 | 8.4 | 3.16 | 0.43 | 1.60 | 1024 | 751 | 683 | 15.0 | 668 | 0.02 |
| 二云母二长花岗岩20X6-1（132.7 Ma） | | | | | | | | | | | | |
| 3 | 5.1 | 0.21 | 7.1 | 4.23 | 0.43 | 1.51 | 1046 | 773 | 869 | 31.8 | 838 | 0.04 |
| 5 | 42.2 | 0.12 | 8.0 | 5.02 | 0.47 | 1.05 | 1059 | 786 | 1182 | 25.0 | 1157 | 0.02 |
| 7 | 7.4 | 0.12 | 8.2 | 4.68 | 0.44 | 1.17 | 1069 | 796 | 1105 | 26.6 | 1079 | 0.02 |
| 9 | 24.0 | 0.13 | 7.3 | 4.84 | 0.48 | 0.94 | 1072 | 799 | 1091 | 26.0 | 1065 | 0.02 |
| 13 | 15.6 | 0.12 | 16.2 | 3.58 | 0.31 | 1.58 | 912 | 639 | 791 | 7.6 | 784 | 0.01 |
| 16 | 10.4 | 0.21 | 16.4 | 3.29 | 0.28 | 2.48 | 1013 | 740 | 709 | 15.0 | 694 | 0.02 |
| 30 | 21.5 | 0.10 | 11.4 | 3.94 | 0.37 | 1.10 | 1050 | 777 | 1237 | 18.4 | 1219 | 0.02 |
| 二云母二长花岗岩20X6-1（140.4 Ma） | | | | | | | | | | | | |
| 2 | 61.1 | 0.22 | 11.2 | 3.64 | 0.34 | 2.03 | 1041 | 768 | 756 | 16.7 | 739 | 0.02 |
| 6 | 30.5 | 0.33 | 8.0 | 4.13 | 0.40 | 1.90 | 1029 | 756 | 538 | 20.4 | 518 | 0.04 |
| 23 | 6.2 | 0.12 | 8.3 | 4.40 | 0.44 | 1.15 | 1080 | 807 | 1048 | 24.4 | 1024 | 0.02 |
| 25 | 28.3 | 0.13 | 7.0 | 4.77 | 0.48 | 0.97 | 1070 | 797 | 1370 | 32.3 | 1338 | 0.02 |
| 27 | 7.4 | 0.15 | 6.5 | 4.60 | 0.48 | 1.84 | 1076 | 803 | 1300 | 36.7 | 1263 | 0.03 |
| 29 | 15.8 | 0.10 | 7.6 | 4.62 | 0.46 | 1.03 | 1104 | 831 | 1338 | 32.5 | 1305 | 0.02 |
| 31 | 3.9 | 0.25 | 10.5 | 3.94 | 0.37 | 1.95 | 965 | 692 | 720 | 20.8 | 699 | 0.03 |
| 34 | 6.4 | 0.10 | 10.0 | 4.11 | 0.40 | 1.11 | 1020 | 747 | 905 | 17.7 | 887 | 0.02 |
| 二云母二长花岗岩20X6-1（151.1 Ma） | | | | | | | | | | | | |
| 12 | 170.0 | 0.40 | 22.1 | 2.76 | 0.20 | 5.89 | 925 | 652 | 682 | 19.5 | 663 | 0.03 |
| 15 | 29.7 | 0.34 | 13.1 | 3.74 | 0.32 | 1.51 | 1135 | 862 | 981 | 22.9 | 958 | 0.02 |
| 32 | 11.1 | 0.25 | 17.9 | 2.89 | 0.24 | 2.29 | 1044 | 771 | 1088 | 21.2 | 1067 | 0.02 |
| 33 | 8.9 | 0.11 | 13.9 | 3.32 | 0.31 | 1.28 | 975 | 702 | 388 | 8.7 | 380 | 0.02 |
| 石榴石白云母二长花岗岩20M2-1 | | | | | | | | | | | | |
| 15 | 14.8 | 0.12 | 6.1 | 5.10 | 0.56 | 0.83 | 872 | 599 | 1202 | 23.5 | 1179 | 0.02 |
| 11 | 7.8 | 0.08 | 14.3 | 4.42 | 0.38 | 0.55 | 994 | 721 | 821 | 4.8 | 816 | 0.01 |
| 电气石白云母二长花岗岩20M1 | | | | | | | | | | | | |
| 2 | 58.4 | 0.52 | 13.4 | 3.83 | 0.33 | 7.12 | 1018 | 745 | 672 | 29.9 | 642 | 0.05 |
| 26 |  | 0.38 | 23.0 | 3.06 | 0.24 | 8.42 | 958 | 685 | 1143 | 23.6 | 1120 | 0.02 |
| 30 | 49.0 | 0.19 | 6.7 | 3.91 | 0.41 | 2.41 | 1037 | 764 | 712 | 29.9 | 682 | 0.04 |
| 37 |  | 0.18 | 7.5 | 4.15 | 0.42 | 2.22 | 1051 | 778 | 730 | 25.9 | 705 | 0.04 |
| 39 | 13.8 | 0.19 | 6.7 | 4.43 | 0.46 | 2.48 | 1069 | 796 | 971 | 38.4 | 933 | 0.04 |
| 白云母二长花岗岩20L2-1 | | | | | | | | | | | | |
| 1 | 60.2 | 0.38 | 5.0 | 3.70 | 0.52 | 2.21 | 1051 | 778 | 558 | 32.3 | 526 | 0.06 |
| 3 | 175.4 | 0.21 | 6.4 | 3.20 | 0.44 | 2.75 | 1019 | 746 | 405 | 19.2 | 386 | 0.05 |
| 5 | 33.1 | 0.29 | 3.8 | 3.85 | 0.58 | 1.52 | 1067 | 794 | 667 | 42.3 | 625 | 0.07 |
| 6 | 30.3 | 0.22 | 4.5 | 3.61 | 0.52 | 1.33 | 1063 | 790 | 724 | 41.6 | 682 | 0.06 |
| 7 | 56.7 | 0.17 | 6.4 | 3.36 | 0.45 | 1.85 | 1067 | 794 | 815 | 30.2 | 784 | 0.04 |
| 9 | 187.5 | 0.40 | 16.0 | 2.19 | 0.23 | 7.67 | 919 | 646 | 580 | 26.7 | 553 | 0.05 |
| 12 | 43.4 | 0.36 | 3.8 | 3.48 | 0.53 | 2.82 | 1085 | 812 | 415 | 56.5 | 359 | 0.16 |
| 15 | 138.4 | 0.17 | 7.6 | 3.34 | 0.44 | 2.40 | 1057 | 784 | 753 | 29.9 | 723 | 0.04 |
| 16 | 11.8 | 0.33 | 14.6 | 2.18 | 0.24 | 4.39 | 984 | 711 | 622 | 25.6 | 596 | 0.04 |
| 17 | 172.1 | 0.27 | 6.6 | 2.89 | 0.39 | 2.53 | 1050 | 777 | 402 | 23.5 | 379 | 0.06 |
| 18 |  | 0.20 | 11.2 | 3.21 | 0.41 | 2.57 | 997 | 724 | 395 | 6.5 | 389 | 0.02 |
| 19 | 29.7 | 0.46 | 6.0 | 2.90 | 0.39 | 1.50 | 1086 | 813 | 367 | 22.1 | 345 | 0.06 |
| 20 | 65.9 | 0.32 | 3.2 | 4.02 | 0.61 | 1.69 | 1046 | 773 | 341 | 26.9 | 314 | 0.09 |