|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 位置 | Th | U | Th/U | 同位素比值 | | | | | |  | 表观年龄 (Ma) | | | | | | 协和度 |
| (ppm) | | 207Pb/  206Pb | 1σ | 207Pb/  235U | 1σ | 206Pb/  238U | 1σ |  | 207Pb/  206Pb | 1σ | 207Pb/  205Pb | 1σ | 206Pb/  238U | 1σ | % |
| 样品14HT060 | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 060-001 | c | 184 | 452 | 0.407 | 0.0575 | 0.00 | 0.6944 | 0.02 | 0.0873 | 0.00 |  | 509 | 77 | 535 | 15 | 540 | 11 | 99 |
| 060-002 | c | 67 | 681 | 0.098 | 0.0665 | 0.00 | 0.9538 | 0.03 | 0.1039 | 0.00 |  | 820 | 58 | 680 | 16 | 637 | 13 | 93 |
| 060-004 | r | 237 | 2772 | 0.085 | 0.0516 | 0.00 | 0.2609 | 0.01 | 0.0366 | 0.00 |  | 265 | 59 | 235 | 5 | 232 | 4 | 98 |
| 060-006 | c | 255 | 616 | 0.414 | 0.0563 | 0.00 | 0.3899 | 0.02 | 0.0492 | 0.00 |  | 465 | 46 | 334 | 11 | 310 | 8 | 92 |
| 060-008 | c | 351 | 2084 | 0.168 | 0.0615 | 0.00 | 0.8646 | 0.01 | 0.1018 | 0.00 |  | 657 | 24 | 633 | 7 | 625 | 6 | 98 |
| *060-009* | *r* | *31* | *4178* | *0.007* | *0.0594* | *0.00* | *0.3015* | *0.01* | *0.0366* | *0.00* |  | *589* | *31* | *268* | *5* | *232* | *3* | *85* |
| 060-010 | c | 93 | 1578 | 0.059 | 0.0680 | 0.00 | 1.1431 | 0.02 | 0.1219 | 0.00 |  | 878 | 22 | 774 | 9 | 741 | 9 | 95 |
| 060-011 | c | 42 | 1547 | 0.027 | 0.0513 | 0.00 | 0.3199 | 0.01 | 0.0452 | 0.00 |  | 257 | 28 | 282 | 5 | 285 | 4 | 98 |
| 060-012 | c | 318 | 529 | 0.602 | 0.1589 | 0.00 | 8.5784 | 0.22 | 0.3899 | 0.01 |  | 2444 | 17 | 2294 | 23 | 2122 | 38 | 92 |
| 060-013 | c | 155 | 522 | 0.296 | 0.0633 | 0.00 | 0.8764 | 0.04 | 0.0994 | 0.00 |  | 717 | 31 | 639 | 21 | 611 | 21 | 95 |
| 060-014 | c | 266 | 535 | 0.496 | 0.1026 | 0.00 | 4.0561 | 0.12 | 0.2843 | 0.01 |  | 1672 | 26 | 1646 | 25 | 1613 | 28 | 97 |
| 060-015 | r | 28 | 2804 | 0.010 | 0.0517 | 0.00 | 0.2780 | 0.01 | 0.0390 | 0.00 |  | 272 | 30 | 249 | 5 | 247 | 5 | 99 |
| 060-016 | r | 41 | 3694 | 0.011 | 0.0554 | 0.00 | 0.2980 | 0.01 | 0.0387 | 0.00 |  | 428 | 37 | 265 | 7 | 244 | 4 | 91 |
| 060-018 | m (r) | 169 | 4163 | 0.041 | 0.0590 | 0.00 | 0.4888 | 0.01 | 0.0597 | 0.00 |  | 565 | 24 | 404 | 9 | 374 | 8 | 92 |
| 060-019 | m (r) | 74 | 612 | 0.121 | 0.0562 | 0.00 | 0.5337 | 0.02 | 0.0681 | 0.00 |  | 461 | 31 | 434 | 14 | 425 | 13 | 97 |
| 060-020 | c | 704 | 1113 | 0.633 | 0.0583 | 0.00 | 0.7415 | 0.01 | 0.0921 | 0.00 |  | 543 | 23 | 563 | 8 | 568 | 7 | 99 |
| 060-022 | c | 1460 | 2698 | 0.541 | 0.0846 | 0.00 | 1.9935 | 0.03 | 0.1708 | 0.00 |  | 1306 | 18 | 1113 | 11 | 1016 | 11 | 90 |
| *060-023* | *m* (*r*) | *33* | *3667* | *0.009* | *0.0600* | *0.00* | *0.4171* | *0.01* | *0.0503* | *0.00* |  | *611* | *19* | *354* | *6* | *316* | *4* | *88* |
| 060-024 | r | 42 | 4785 | 0.009 | 0.0547 | 0.00 | 0.2925 | 0.01 | 0.0386 | 0.00 |  | 467 | 28 | 261 | 5 | 244 | 3 | 93 |
| 060-025 | m (c) | 46 | 1643 | 0.028 | 0.0556 | 0.00 | 0.6533 | 0.03 | 0.0839 | 0.00 |  | 439 | 3 | 511 | 19 | 519 | 21 | 98 |
| 060-027 | c | 78 | 234 | 0.332 | 0.0608 | 0.00 | 0.8143 | 0.02 | 0.0971 | 0.00 |  | 632 | 41 | 605 | 11 | 597 | 8 | 98 |
| 060-028 | m (r) | 75 | 3550 | 0.021 | 0.0514 | 0.00 | 0.3160 | 0.01 | 0.0446 | 0.00 |  | 257 | 24 | 279 | 5 | 281 | 5 | 99 |
| 060-029 | c | 434 | 878 | 0.494 | 0.0708 | 0.00 | 1.6329 | 0.03 | 0.1671 | 0.00 |  | 951 | 23 | 983 | 12 | 996 | 13 | 98 |
| *060-030* | *c* | *145* | *838* | *0.172* | *0.1675* | *0.00* | *7.9218* | *0.17* | *0.3430* | *0.01* |  | *2532* | *19* | *2222* | *19* | *1901* | *29* | *84* |
| 060-032 | c | 7 | 281 | 0.024 | 0.0739 | 0.00 | 1.6076 | 0.03 | 0.1580 | 0.00 |  | 1039 | 27 | 973 | 12 | 946 | 12 | 97 |
| 060-034 | r | 20 | 3166 | 0.006 | 0.0541 | 0.00 | 0.2750 | 0.00 | 0.0369 | 0.00 |  | 372 | 62 | 247 | 4 | 234 | 2 | 94 |
| 060-035 | c | 86 | 1178 | 0.073 | 0.0676 | 0.00 | 1.1399 | 0.02 | 0.1223 | 0.00 |  | 857 | 26 | 772 | 10 | 744 | 9 | 96 |
| 060-036 | c | 147 | 1100 | 0.134 | 0.0518 | 0.00 | 0.3351 | 0.01 | 0.0468 | 0.00 |  | 276 | 25 | 293 | 7 | 295 | 7 | 99 |
| 060-037 | m (c) | 66 | 3959 | 0.017 | 0.0573 | 0.00 | 0.4171 | 0.02 | 0.0520 | 0.00 |  | 506 | 28 | 354 | 11 | 327 | 10 | 91 |
| 060-038 | m (c) | 180 | 3220 | 0.056 | 0.0527 | 0.00 | 0.3096 | 0.01 | 0.0426 | 0.00 |  | 322 | 28 | 274 | 5 | 269 | 4 | 98 |
| 060-039 | m (c) | 503 | 1819 | 0.277 | 0.0573 | 0.00 | 0.6301 | 0.02 | 0.0792 | 0.00 |  | 506 | 64 | 496 | 14 | 492 | 15 | 99 |
| 060-040 | m (c) | 19 | 5564 | 0.003 | 0.0514 | 0.00 | 0.2998 | 0.01 | 0.0423 | 0.00 |  | 257 | 33 | 266 | 5 | 267 | 4 | 99 |
| 060-041 | c | 113 | 311 | 0.363 | 0.0694 | 0.00 | 1.4255 | 0.04 | 0.1479 | 0.00 |  | 909 | 31 | 900 | 19 | 889 | 21 | 98 |
| 060-042 | m (r) | 61 | 754 | 0.081 | 0.0652 | 0.00 | 1.1679 | 0.07 | 0.1251 | 0.01 |  | 789 | 37 | 786 | 31 | 760 | 35 | 96 |
| 060-043 | c | 90 | 622 | 0.145 | 0.0679 | 0.00 | 0.9916 | 0.02 | 0.1060 | 0.00 |  | 865 | 31 | 700 | 11 | 649 | 10 | 92 |
| 060-045 | c | 747 | 733 | 1.019 | 0.1060 | 0.00 | 4.4647 | 0.09 | 0.3057 | 0.00 |  | 1731 | 24 | 1724 | 18 | 1720 | 23 | 99 |
| 060-046 | m (r) | 128 | 3786 | 0.034 | 0.0519 | 0.00 | 0.3040 | 0.01 | 0.0425 | 0.00 |  | 280 | 26 | 270 | 4 | 269 | 3 | 99 |
| 060-047 | c | 329 | 844 | 0.389 | 0.0600 | 0.00 | 0.8697 | 0.01 | 0.1050 | 0.00 |  | 606 | 21 | 635 | 8 | 644 | 7 | 98 |
| 060-048 | m (r) | 101 | 1633 | 0.062 | 0.0577 | 0.00 | 0.7047 | 0.03 | 0.0869 | 0.00 |  | 517 | 23 | 542 | 20 | 537 | 22 | 99 |
| 060-049 | c | 157 | 460 | 0.342 | 0.0515 | 0.00 | 0.3300 | 0.01 | 0.0461 | 0.00 |  | 265 | 43 | 290 | 9 | 290 | 7 | 99 |
| 060-050 | m (r) | 188 | 1303 | 0.145 | 0.0683 | 0.00 | 1.2029 | 0.05 | 0.1252 | 0.01 |  | 880 | 27 | 802 | 25 | 760 | 29 | 94 |
| *060-051* | *c* | *97* | *434* | *0.224* | *0.1589* | *0.00* | *8.1338* | *0.41* | *0.3581* | *0.02* |  | *2444* | *26* | *2246* | *45* | *1973* | *75* | *87* |
| *060-052* | *m* (*r*) | *75* | *1090* | *0.069* | *0.0617* | *0.00* | *0.6471* | *0.04* | *0.0736* | *0.00* |  | *665* | *34* | *507* | *22* | *458* | *20* | *89* |
| 060-053 | c | 67 | 169 | 0.400 | 0.0757 | 0.00 | 1.7863 | 0.05 | 0.1697 | 0.00 |  | 1087 | 32 | 1040 | 18 | 1011 | 19 | 97 |
| 060-056 | c | 683 | 1182 | 0.578 | 0.0976 | 0.00 | 3.5644 | 0.08 | 0.2638 | 0.00 |  | 1589 | 20 | 1542 | 17 | 1509 | 24 | 97 |
| 060-057 | c | 146 | 457 | 0.319 | 0.0779 | 0.00 | 1.7414 | 0.06 | 0.1600 | 0.00 |  | 1146 | 27 | 1024 | 21 | 957 | 23 | 93 |
| 060-058 | m (r) | 713 | 2716 | 0.262 | 0.0632 | 0.00 | 0.7130 | 0.03 | 0.0803 | 0.00 |  | 717 | 30 | 547 | 19 | 498 | 19 | 90 |
| 060-060 | c | 357 | 386 | 0.924 | 0.0579 | 0.00 | 0.6632 | 0.01 | 0.0829 | 0.00 |  | 528 | 33 | 517 | 8 | 514 | 6 | 99 |
| 060-061 | m (c) | 67 | 4361 | 0.015 | 0.0570 | 0.00 | 0.3747 | 0.01 | 0.0476 | 0.00 |  | 500 | 19 | 323 | 5 | 300 | 4 | 92 |
| 060-062 | m (c) | 82 | 3143 | 0.026 | 0.0571 | 0.00 | 0.4324 | 0.01 | 0.0548 | 0.00 |  | 494 | 21 | 365 | 6 | 344 | 5 | 94 |
| 060-065 | r | 48 | 3235 | 0.015 | 0.0511 | 0.00 | 0.2724 | 0.01 | 0.0387 | 0.00 |  | 256 | 30 | 245 | 5 | 245 | 4 | 99 |
| 060-066 | c | 25 | 747 | 0.033 | 0.0949 | 0.00 | 2.8177 | 0.06 | 0.2150 | 0.00 |  | 1528 | 21 | 1360 | 15 | 1255 | 16 | 91 |
| 060-069 | m (r) | 82 | 1359 | 0.060 | 0.0572 | 0.00 | 0.5634 | 0.02 | 0.0704 | 0.00 |  | 498 | 25 | 454 | 16 | 439 | 15 | 96 |
| 060-070 | c | 121 | 744 | 0.163 | 0.0689 | 0.00 | 1.1870 | 0.03 | 0.1247 | 0.00 |  | 898 | 24 | 795 | 12 | 758 | 11 | 95 |
| 060-071 | m (r) | 20 | 1516 | 0.013 | 0.0508 | 0.00 | 0.3134 | 0.01 | 0.0447 | 0.00 |  | 232 | 35 | 277 | 6 | 282 | 5 | 98 |
| 060-072 | c | 142 | 301 | 0.473 | 0.0650 | 0.00 | 0.8667 | 0.04 | 0.0947 | 0.00 |  | 772 | 35 | 634 | 24 | 583 | 24 | 91 |
| 060-073 | c | 92 | 309 | 0.299 | 0.0547 | 0.00 | 0.3222 | 0.01 | 0.0428 | 0.00 |  | 467 | 52 | 284 | 6 | 270 | 3 | 95 |
| *060-074* | *m* (*r*) | *34* | *1169* | *0.029* | *0.0621* | *0.00* | *0.5295* | *0.04* | *0.0570* | *0.00* |  | *680* | *62* | *431* | *26* | *358* | *17* | *81* |
| 060-075 | c | 165 | 861 | 0.191 | 0.0612 | 0.00 | 0.8170 | 0.05 | 0.0931 | 0.00 |  | 656 | 37 | 606 | 29 | 574 | 28 | 94 |
| 060-076 | m (c) | 1043 | 2247 | 0.464 | 0.0560 | 0.00 | 0.5199 | 0.01 | 0.0670 | 0.00 |  | 454 | 24 | 425 | 10 | 418 | 10 | 98 |
| 060-078 | r | 16 | 2844 | 0.006 | 0.0517 | 0.00 | 0.2777 | 0.01 | 0.0390 | 0.00 |  | 272 | 19 | 249 | 4 | 246 | 4 | 99 |
| 060-079 | r | 15 | 1868 | 0.008 | 0.0515 | 0.00 | 0.2723 | 0.00 | 0.0383 | 0.00 |  | 265 | 30 | 245 | 4 | 242 | 3 | 99 |
| *060-080* | *c* | *65* | *908* | *0.072* | *0.0731* | *0.00* | *1.0203* | *0.04* | *0.0986* | *0.00* |  | *1017* | *33* | *714* | *21* | *606* | *18* | *83* |
| 060-081 | m (c) | 151 | 2974 | 0.051 | 0.0567 | 0.00 | 0.3718 | 0.02 | 0.0475 | 0.00 |  | 483 | 67 | 321 | 12 | 299 | 10 | 93 |
| 060-082 | m (c) | 53 | 2741 | 0.019 | 0.0534 | 0.00 | 0.3492 | 0.01 | 0.0475 | 0.00 |  | 346 | 61 | 304 | 10 | 299 | 8 | 98 |
| 060-084 | r | 15 | 3377 | 0.004 | 0.0528 | 0.00 | 0.2853 | 0.01 | 0.0390 | 0.00 |  | 320 | 19 | 255 | 8 | 247 | 6 | 86 |
| 060-085 | m (c) | 62 | 2406 | 0.026 | 0.0622 | 0.00 | 0.6881 | 0.05 | 0.0777 | 0.00 |  | 683 | 50 | 532 | 30 | 483 | 29 | 90 |
| 060-087 | r | 16 | 4589 | 0.003 | 0.0515 | 0.00 | 0.2742 | 0.01 | 0.0385 | 0.00 |  | 265 | 30 | 246 | 5 | 244 | 4 | 99 |
| 060-088 | m (r) | 71 | 3029 | 0.024 | 0.0572 | 0.00 | 0.3829 | 0.02 | 0.0474 | 0.00 |  | 498 | 41 | 329 | 15 | 299 | 12 | 90 |
| 060-089 | r | 60 | 5166 | 0.012 | 0.0523 | 0.00 | 0.2678 | 0.01 | 0.0370 | 0.00 |  | 298 | 33 | 241 | 4 | 234 | 3 | 97 |
| 060-090 | m (r) | 40 | 4548 | 0.009 | 0.0551 | 0.00 | 0.4192 | 0.02 | 0.0543 | 0.00 |  | 417 | 31 | 355 | 17 | 341 | 17 | 95 |
| 样品14HT111 | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 111-001 | (1) | 11 | 4618 | 0.002 | 0.0491 | 0.00 | 0.2255 | 0.01 | 0.0334 | 0.00 |  | 150 | 67 | 207 | 8 | 212 | 6 | 97 |
| 111-003 | (1) | 19 | 11923 | 0.002 | 0.0545 | 0.00 | 0.3223 | 0.02 | 0.0427 | 0.00 |  | 391 | 62 | 284 | 12 | 270 | 11 | 94 |
| 111-005 | (1) | 41 | 7723 | 0.005 | 0.0502 | 0.00 | 0.2212 | 0.01 | 0.0320 | 0.00 |  | 211 | 42 | 203 | 5 | 203 | 4 | 99 |
| 111-006 | (1) | 30 | 12056 | 0.002 | 0.0506 | 0.00 | 0.2296 | 0.01 | 0.0329 | 0.00 |  | 233 | 31 | 210 | 5 | 209 | 4 | 99 |
| 111-008 | (1) | 34 | 13407 | 0.003 | 0.0505 | 0.00 | 0.2313 | 0.00 | 0.0332 | 0.00 |  | 217 | 28 | 211 | 4 | 211 | 3 | 99 |
| 111-009 | (1) | 46 | 17172 | 0.003 | 0.0507 | 0.00 | 0.2129 | 0.00 | 0.0304 | 0.00 |  | 233 | 28 | 196 | 4 | 193 | 3 | 98 |
| 111-010 | (2) | 37 | 13372 | 0.003 | 0.0519 | 0.00 | 0.2287 | 0.01 | 0.0320 | 0.00 |  | 280 | 30 | 209 | 6 | 203 | 6 | 97 |
| 111-011 | (1) | 5 | 2992 | 0.002 | 0.0513 | 0.00 | 0.2394 | 0.01 | 0.0338 | 0.00 |  | 254 | 42 | 218 | 5 | 214 | 3 | 98 |
| 111-012 | (1) | 17 | 7383 | 0.002 | 0.0513 | 0.00 | 0.2161 | 0.00 | 0.0305 | 0.00 |  | 254 | 35 | 199 | 4 | 194 | 3 | 97 |
| 111-013 | (2) | 10 | 4776 | 0.002 | 0.0504 | 0.00 | 0.2296 | 0.00 | 0.0329 | 0.00 |  | 217 | 41 | 210 | 4 | 209 | 3 | 99 |
| 111-015 | (2) | 73 | 12042 | 0.006 | 0.0519 | 0.00 | 0.2310 | 0.01 | 0.0322 | 0.00 |  | 280 | 46 | 211 | 6 | 204 | 5 | 96 |
| *111-016* | *(2)* | *195* | *17219* | *0.011* | *0.0564* | *0.00* | *0.2110* | *0.01* | *0.0270* | *0.00* |  | 478 | 35 | 194 | 6 | 172 | 5 | 87 |
| 111-018 | (1) | 43 | 19040 | 0.002 | 0.0499 | 0.00 | 0.2235 | 0.01 | 0.0324 | 0.00 |  | 191 | 33 | 205 | 4 | 206 | 4 | 99 |
| 111-019 | (1) | 8 | 4134 | 0.002 | 0.0511 | 0.00 | 0.2199 | 0.01 | 0.0310 | 0.00 |  | 256 | 44 | 202 | 6 | 197 | 4 | 97 |
| 111-020 | (2) | 15 | 6595 | 0.002 | 0.0506 | 0.00 | 0.2267 | 0.01 | 0.0325 | 0.00 |  | 220 | 36 | 207 | 5 | 206 | 4 | 99 |