*Dunfeng Xiang, Qigui Mao, Wenjiao Xiao, Jintao Wei, David Chew, Zhiyuan He, Hang Zhao, Guoxiong Ma, Meng Zhang, Lin Wu, Nan Wang, Chao Guo, Xiaoping Ma, Zhiyong Zhang, 2024, Exhumation and preservation of the Baixintan magmatic Ni-Cu sulphide deposit: Insights from (U-Th)/He and fission track thermochronology: Ore Geology Reviews.*

# Supplementary Material

## Analytical procedures

### *Zircon and Apatite U-Pb analysis*

U-Pb analyses of zircon and apatite were performed at Beijing Quick-Thermo Science & Technology Co., Ltd. utilizing an Agilent 8900 ICP-QQQ coupled to an ESI New Wave NWR $^{193}$UC laser ablation system. Individual zircon and apatite crystals were randomly selected, embedded in epoxy resin, and polished to expose their internal surfaces. For zircon U-Pb analysis, Cathodoluminescence (CL) images of zircons were taken to explore internal structures and pinpoint potential target sites for U-Pb dating, utilizing a laser spot diameter of 20 μm. Harvard 91500 zircon (Wiedenbeck et al., 1995) was the primary reference material for U-Pb age geochronology, with Plešovice zircon (Sláma et al., 2008) serving as the secondary reference material. For apatite U-Pb analysis, reference materials and unknown crystals were ablated for 25 seconds using a 30 μm beam diameter, ~3 J/cm² fluence, and a 5 Hz repetition rate. Madagascar apatite (Thomson et al., 2012) was utilized as the primary reference material, while McClure Mountain apatite (Schoene and Bowring, 2006; 523.51 ± 1.53 Ma) served as the secondary age reference material. Zircon and apatite U-Pb data were processed with Iolite data reduction software (Paton et al., 2010), following the procedure described in Chew et al. (2014) and Xiang et al (2021). IsoplotR was employed to produce Concordia diagrams (Vermeesch, 2018).

### *Apatite fission track analysis*

Apatite fission track (AFT) analysis was also carried out at Beijing Quick-Thermo Science & Technology Co., Ltd. The apatite crystals were embedded in epoxy resin on glass slides and polished to expose their internal surfaces. They

were then etched in a 5 M $HNO_3$ solution at 20 °C for 20 seconds to reveal $^{238}U$ spontaneous fission tracks. After etching, apatite crystals were imaged with an Autoscan fission track analysis system based on a Zeiss Axio Imager M2m microscope. The measurements of fission track density, $D_{par}$ values, and fission-track lengths were conducted using the Trackwork and Fasttrack systems (Gleadow et al., 2009). The U concentrations of each counted apatite crystal and reference materials (primary standard = NIST SRM 612 glass; secondary standard = Madagascar apatite) were measured during the apatite U-Pb dating procedure, using $^{43}Ca$ as an internal elemental standard. Single crystal AFT ages were calculated using an absolute calibration with an aggregate constant ($\xi$) of $2.001 \times 10^3$ (Hasebe et al., 2004). Central ages and their dispersion for each sample were computed and plotted using RadialPlotter (Vermeesch, 2009).

***Zircon (U-Th)/He Analyses***

Zircon (U-Th)/He analysis was conducted at the Institute of Geology, China Earthquake Administration. Using a binocular microscope, inclusion-free, euhedral, unfractured crystals with sizes of >70 μm were selected. The crystals underwent digital measurements to calculate α-ejection corrections (FT; Farley et al., 1996). Zircon grains were loaded into niobium vials and outgassed under vacuum at >1000 °C for 10 min, then reheated until more than 99% of the He was extracted from the crystals. The $^4He$ was spiked with $^3He$ and analyzed using a Quadrupole PrismaPlus QMG 220. The degassed zircon crystals were dissolved in HF-$HNO_3$ before the measurement of U and Th contents. U and Th concentrations were measured using an Agilent 7900 ICP-MS. Raw ages were calculated from measured contents of U, Th and He in zircon, with five crystals analyzed per sample for reproducibility. Corrected ages incorporated α-ejection corrections (Farley et al., 1996), following detailed procedures outlined in Li et al. (2017).

***Inverse Thermal History Modeling***

Inverse modeling in QTQt employs a Bayesian Markov Chain - Monte Carlo approach, allowing users to input thermochronometric data and define temperature-time (t-T) constraints. The model outputs a population of plausible

thermal histories, determined by the posterior probability (Gallagher, 2012). The model inputs in this study include single-grain zircon (U–Th)/He and AFT ages, confined track lengths (CTLs), and Dpar values (fission-track etch pit diameter parallel to the c-axis). In QTQt inverse modeling, we set the present temperature and geothermal gradient to 10 ± 10 °C and 30 ± 10 °C/km, respectively. Additionally, the Zircon U-Pb age for sample BXT16 and the corresponding Apatite U-Pb ages for the other samples were used as initial time-temperature (T-t) constraints in the inverse modeling process. Detailed modeling parameters for each sample are provided in Table S1.

Table S1 Inverse Modeling parameters for the Baixintan deposit

| Samples | ZHe age span (Ma) | AFT data | | Time-temperature constraints |
|---|---|---|---|---|
| | | Age span (Ma) | CTLs span (μm) | |
| Northeastern Baixintan | | | | |
| BXT09 | – | 455–165 | 15.8–8.7 | 500 ± 50 ℃ and 288 ± 14 Ma |
| BXT10 | – | 432–175 | 15.4–8.5 | 500 ± 50 ℃ and 268 ± 16 Ma |
| BXT16 | – | 433–165 | 14.9–6.6 | 900 ± 100 ℃ and 285 ± 3 Ma |
| Southwestern Baixintan | | | | |
| BX03 | 218–154 | 298–65 | – | 500 ± 50 ℃ and 288 ± 14 Ma |
| BX04 | 267–210 | 340–67 | – | 500 ± 50 ℃ and 287 ± 13 Ma |

## References:


Chew, D.M., Petrus, J.A., Kamber, B.S., 2014. U-Pb LA-ICPMS dating using accessory mineral standards with variable common Pb. Chem. Geol. 363, 185–199.

Farley, K.A., Wolf, R.A., Silver, L.T., 1996. The effects of long alpha-stopping distances on (U-Th)/He ages. Geochim. Cosmochim. Acta 60 (21), 4223–4229.

Gallagher, K., 2012, Transdimensional inverse thermal history modeling for quantitative thermochronology. J. Geophys. Res., Solid Earth 117 (B2), B02408.

Gleadow, A.J.W., Gleadow, S.J., Belton, D.X., Kohn, B.P., Krochmal, M.S., Brown, R.W., 2009. Coincidence mapping-a key strategy for the automatic counting of fission tracks in natural minerals. Geol. Soc. Lond. Spec. Publ. 324 (1), 25–36.

Hasebe, N., Barbarand, J., Jarvis, K., Carter, A., Hurford, A. J., 2004. Apatite fission-track chronometry using laser ablation ICP-MS. Chem. Geol. 207 (3–4), 135–145.

Li, Y., Zheng, D., Wu, Y., Wang, Y., He, H., Pang, J., Wang Y., Yu, J., 2017. A potential

(U-Th)/He zircon reference material from Penglai zircon megacrysts. Geostand. Geoanal. Res. 41(3), 359–365.

Paton, C., Hellstrom, J., Paul, B., Woodhead, J., Hergt, J., 2011. Iolite: Freeware for the visualisation and processing of mass spectrometric data. J. Anal. At. Spectrom. 26 (12), 2508–2518

Schoene, B., Bowring, S.A., 2006. U–Pb systematics of the McClure Mountain syenite: thermochronological constraints on the age of the 40Ar/39Ar standard MMhb. Contrib. Mineral. Petrol.151, 615–630.

Sláma, J., Košler, J., Condon, D.J., Crowley, J.L., Gerdes, A., Hanchar, J.M., Horstwood, M.S.A., Morris, G.A., Nasdala, L., Norberg, N., Schaltegger, U., Schoene, B., Tubrett, M.N., Whitehouse, M.J., 2008. Plešovice zircon—a new natural reference material for U–Pb and Hf isotopic microanalysis. Chem. Geol. 249 (1–2), 1–35.

Thomson, S.N., Gehrels, G.E., Ruiz, J., Buchwaldt, R., 2012. Routine low-damage apatite U-Pb dating using laser ablation-multicollector-ICPMS. Geochem. Geophys. Geosyst. 13(2), Q0AA21.

Vermeesch, P., 2009. RadialPlotter: A Java application for fission track, luminescence and other radial plots. Radiat. Meas. 44 (4), 409–410.

Vermeesch, P., 2018. IsoplotR: A free and open toolbox for geochronology. Geosci. Front. 9 (5), 1479–1493.

Wiedenbeck, M., Allé, P., Corfu, F., Griffin, W.L., Meier, M., Oberli, F., Von Quant, A., Roddick, J.C., Spiegel W., 1995. Three Natural zircon standards for U-Th-Pb, Lu-Hf, trace-element and REE analyses. Geostand. Newsl. 19 (1), 1–23.

Xiang, D., Zhang, Z., Zack, T., Chew, D., Yang, Y., Wu, L., Hogmalm, J., 2021. Apatite U-Pb Dating with Common Pb Correction using LA-ICP-MS/MS. Geostand. Geoanal. Res. 45, 621–642.

**Supplementary Material Table S2.** Single grain zircon U-Pb data from the Baixintan deposit.

| Analysis | Th (μg/g) | U (μg/g) | Th/U | Isotope ratios | | | | | | Apparent ages (Ma) | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | $^{207}Pb/^{206}Pb$ | 1σ | $^{207}Pb/^{235}U$ | 1σ | $^{206}Pb/^{238}U$ | 1σ | $^{207}Pb/^{206}Pb$ | 1σ | $^{207}Pb/^{235}U$ | 1σ | $^{206}Pb/^{238}U$ | 1σ | Concordance |
| BXT10-1 | 1781 | 818 | 2.2 | 0.0530 | 0.0012 | 0.3145 | 0.0076 | 0.0436 | 0.0006 | 327.8 | 58.3 | 277.7 | 5.9 | 275.2 | 4.0 | 99% |
| BXT10-2 | 1576 | 731 | 2.2 | 0.0588 | 0.0017 | 0.3733 | 0.0116 | 0.0463 | 0.0007 | 561.1 | 61.1 | 322.1 | 8.6 | 291.8 | 4.5 | 90% |
| BXT10-3 | 1571 | 851 | 1.9 | 0.0561 | 0.0013 | 0.3408 | 0.0079 | 0.0445 | 0.0007 | 457.5 | 50.0 | 297.8 | 6.0 | 280.8 | 4.6 | 94% |
| BXT10-4 | 1395 | 680 | 2.1 | 0.0516 | 0.0012 | 0.3162 | 0.0084 | 0.0444 | 0.0007 | 264.9 | 51.8 | 278.9 | 6.5 | 280.0 | 4.1 | 99% |
| BXT10-5 | 1152 | 530 | 2.2 | 0.0545 | 0.0013 | 0.3269 | 0.0087 | 0.0437 | 0.0008 | 390.8 | 49.1 | 287.2 | 6.6 | 275.8 | 4.8 | 95% |
| BXT10-6 | 190 | 320 | 0.6 | 0.0546 | 0.0017 | 0.3300 | 0.0140 | 0.0437 | 0.0014 | 394.5 | 70.4 | 289.6 | 10.7 | 275.6 | 8.8 | 95% |
| ~~BXT10-7~~ | ~~122~~ | ~~234~~ | ~~0.5~~ | ~~0.1491~~ | ~~0.0107~~ | ~~6.4466~~ | ~~0.5583~~ | ~~0.3097~~ | ~~0.0166~~ | ~~2334.9~~ | ~~123.5~~ | ~~2038.6~~ | ~~76.1~~ | ~~1739.1~~ | ~~81.7~~ | ~~84%~~ |
| BXT10-8 | 370 | 817 | 0.5 | 0.0587 | 0.0014 | 0.4192 | 0.0117 | 0.0515 | 0.0010 | 566.7 | 53.7 | 355.5 | 8.4 | 323.7 | 6.4 | 90% |
| ~~BXT10-9~~ | ~~613~~ | ~~378~~ | ~~1.6~~ | ~~0.0720~~ | ~~0.0027~~ | ~~0.4263~~ | ~~0.0169~~ | ~~0.0419~~ | ~~0.0007~~ | ~~987.0~~ | ~~77.3~~ | ~~360.5~~ | ~~12.0~~ | ~~264.5~~ | ~~4.2~~ | ~~69%~~ |
| BXT10-10 | 695 | 399 | 1.7 | 0.0510 | 0.0017 | 0.3098 | 0.0078 | 0.0437 | 0.0008 | 242.7 | 75.9 | 274.0 | 6.1 | 275.6 | 4.7 | 99% |
| BXT10-11 | 825 | 518 | 1.6 | 0.0516 | 0.0012 | 0.3111 | 0.0078 | 0.0435 | 0.0007 | 333.4 | 53.7 | 275.0 | 6.0 | 274.5 | 4.0 | 99% |
| BXT10-12 | 723 | 399 | 1.8 | 0.0559 | 0.0017 | 0.3766 | 0.0120 | 0.0484 | 0.0008 | 450.0 | 66.7 | 324.5 | 8.9 | 305.0 | 4.6 | 93% |
| ~~BXT10-13~~ | ~~435~~ | ~~292~~ | ~~1.5~~ | ~~0.0646~~ | ~~0.0024~~ | ~~0.5203~~ | ~~0.0220~~ | ~~0.0575~~ | ~~0.0016~~ | ~~761.1~~ | ~~79.6~~ | ~~425.3~~ | ~~14.7~~ | ~~360.5~~ | ~~9.8~~ | ~~83%~~ |
| ~~BXT10-14~~ | ~~85~~ | ~~181~~ | ~~0.5~~ | ~~0.0575~~ | ~~0.0025~~ | ~~0.3344~~ | ~~0.0163~~ | ~~0.0414~~ | ~~0.0009~~ | ~~509.3~~ | ~~99.1~~ | ~~292.9~~ | ~~12.4~~ | ~~261.6~~ | ~~5.4~~ | ~~88%~~ |
| BXT10-15 | 1091 | 485 | 2.3 | 0.0543 | 0.0014 | 0.3485 | 0.0093 | 0.0466 | 0.0008 | 383.4 | 59.3 | 303.6 | 7.0 | 293.4 | 5.2 | 96% |
| BXT10-16 | 856 | 493 | 1.7 | 0.0558 | 0.0015 | 0.3604 | 0.0100 | 0.0467 | 0.0008 | 442.6 | 56.5 | 312.5 | 7.5 | 294.5 | 5.0 | 94% |
| BXT10-17 | 1525 | 636 | 2.4 | 0.0527 | 0.0013 | 0.3355 | 0.0079 | 0.0462 | 0.0007 | 316.7 | 55.6 | 293.8 | 6.0 | 291.1 | 4.5 | 99% |
| BXT10-18 | 851 | 372 | 2.3 | 0.0506 | 0.0015 | 0.3343 | 0.0090 | 0.0479 | 0.0009 | 220.4 | 75.0 | 292.8 | 6.8 | 301.7 | 5.5 | 97% |

**Supplementary Material Table S3.** Single grain apatite U-Pb data from the Baixintan deposit.

| Analysis | U (μg/g) | Th (μg/g) | Isotopic ratios | | | | | | | | Age (Ma) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $^{207}Pb/^{235}U$ | ±2σ | $^{206}Pb/^{238}U$ | ±2σ | $^{238}U/^{206}Pb$ | ±2σ | $^{207}Pb/^{206}Pb$ | ±2σ | $^{207}Pb$-Cor. | ±2σ |
| **BX03** | | | | | | | | | | | | |
| BX03#01 | 8.90 | 36.10 | 5.85 | 0.68 | 0.090 | 0.006 | 11.05 | 0.64 | 0.449 | 0.039 | 280.9 | 34.4 |
| BX03#02 | 6.67 | 31.40 | 7.12 | 0.49 | 0.109 | 0.007 | 9.56 | 0.64 | 0.485 | 0.041 | 307.7 | 42.4 |
| BX03#03 | 7.61 | 31.10 | 7.50 | 0.68 | 0.104 | 0.007 | 9.98 | 0.62 | 0.517 | 0.041 | 267.8 | 40.0 |
| BX03#04 | 10.70 | 49.30 | 7.73 | 0.63 | 0.109 | 0.006 | 9.46 | 0.54 | 0.515 | 0.034 | 281.7 | 36.2 |
| BX03#05 | 6.39 | 30.80 | 9.49 | 0.66 | 0.132 | 0.007 | 7.87 | 0.44 | 0.527 | 0.035 | 328.6 | 44.0 |
| BX03#06 | 4.49 | 22.80 | 17.00 | 1.40 | 0.183 | 0.013 | 5.67 | 0.41 | 0.645 | 0.042 | 283.3 | 70.4 |
| BX03#07 | 7.36 | 33.20 | 6.20 | 0.41 | 0.097 | 0.005 | 10.49 | 0.55 | 0.473 | 0.033 | 283.4 | 31.4 |
| BX03#08 | 6.10 | 30.70 | 6.27 | 0.59 | 0.100 | 0.007 | 10.59 | 0.78 | 0.479 | 0.049 | 288.8 | 45.6 |
| BX03#09 | 6.86 | 29.60 | 7.96 | 0.56 | 0.116 | 0.007 | 8.91 | 0.53 | 0.498 | 0.039 | 316.7 | 42.8 |
| BX03#10 | 7.29 | 33.40 | 7.20 | 1.20 | 0.107 | 0.015 | 10.40 | 1.20 | 0.498 | 0.049 | 291.7 | 59.3 |
| BX03#11 | 6.99 | 32.70 | 7.94 | 0.59 | 0.110 | 0.007 | 9.20 | 0.51 | 0.521 | 0.044 | 279.5 | 44.5 |
| BX03#12 | 7.15 | 44.20 | 11.82 | 0.86 | 0.149 | 0.009 | 6.90 | 0.47 | 0.571 | 0.037 | 318.6 | 51.6 |
| BX03#13 | 9.77 | 53.20 | 5.09 | 0.51 | 0.087 | 0.007 | 11.83 | 0.95 | 0.423 | 0.034 | 290.9 | 32.9 |
| BX03#14 | 9.40 | 39.80 | 5.91 | 0.50 | 0.100 | 0.006 | 10.40 | 0.60 | 0.445 | 0.037 | 314.5 | 36.8 |
| BX03#15 | 7.80 | 33.70 | 4.16 | 0.33 | 0.082 | 0.005 | 12.78 | 0.71 | 0.379 | 0.032 | 300.2 | 28.2 |
| BX03#16 | 7.40 | 28.30 | 8.15 | 0.56 | 0.113 | 0.005 | 8.93 | 0.43 | 0.525 | 0.039 | 284.7 | 39.9 |
| BX03#17 | 6.33 | 31.80 | 13.06 | 0.81 | 0.157 | 0.009 | 6.56 | 0.37 | 0.613 | 0.038 | 283.7 | 55.5 |
| BX03#18 | 6.43 | 28.50 | 9.83 | 0.68 | 0.131 | 0.006 | 7.84 | 0.43 | 0.549 | 0.043 | 303.2 | 49.9 |
| ~~BX03#19~~ | ~~14.80~~ | ~~0.44~~ | ~~7.97~~ | ~~0.40~~ | ~~0.355~~ | ~~0.017~~ | ~~2.90~~ | ~~0.14~~ | ~~0.164~~ | ~~0.008~~ | ~~1838.3~~ | ~~91.2~~ |
| BX03#20 | 7.69 | 39.60 | 9.42 | 0.73 | 0.125 | 0.007 | 8.18 | 0.45 | 0.547 | 0.036 | 292.1 | 42.5 |
| BX03#21 | 8.16 | 46.50 | 5.38 | 0.39 | 0.091 | 0.006 | 11.51 | 0.72 | 0.445 | 0.036 | 285.6 | 34.0 |
| BX03#22 | 7.29 | 37.80 | 9.40 | 0.62 | 0.125 | 0.006 | 8.09 | 0.39 | 0.534 | 0.030 | 304.3 | 36.8 |
| BX03#23 | 8.37 | 44.40 | 5.97 | 0.55 | 0.094 | 0.007 | 11.00 | 0.83 | 0.464 | 0.041 | 282.9 | 38.1 |
| BX03#24 | 7.91 | 53.50 | 7.57 | 0.47 | 0.112 | 0.005 | 9.21 | 0.43 | 0.495 | 0.029 | 307.3 | 32.4 |
| BX03#25 | 8.80 | 40.00 | 4.60 | 0.31 | 0.086 | 0.005 | 12.02 | 0.69 | 0.395 | 0.028 | 304.6 | 26.6 |
| BX03#26 | 9.00 | 48.80 | 8.62 | 0.45 | 0.122 | 0.007 | 8.49 | 0.43 | 0.518 | 0.030 | 312.0 | 36.7 |
| BX03#27 | 6.92 | 29.60 | 6.06 | 0.40 | 0.099 | 0.007 | 10.71 | 0.68 | 0.452 | 0.025 | 305.0 | 29.8 |
| BX03#28 | 6.18 | 38.00 | 9.49 | 0.67 | 0.128 | 0.007 | 8.08 | 0.40 | 0.544 | 0.037 | 300.7 | 43.8 |
| BX03#29 | 8.26 | 50.00 | 10.23 | 0.54 | 0.136 | 0.007 | 7.58 | 0.37 | 0.550 | 0.030 | 314.4 | 40.0 |
| BX03#30 | 6.46 | 44.60 | 12.24 | 0.91 | 0.152 | 0.010 | 6.81 | 0.44 | 0.581 | 0.038 | 313.3 | 54.4 |
| BX03#31 | 7.30 | 30.60 | 80.50 | 9.30 | 0.719 | 0.075 | 1.56 | 0.21 | 0.804 | 0.040 | 197.0 | 273.9 |
| BX03#32 | 10.70 | 55.30 | 7.90 | 0.57 | 0.112 | 0.006 | 9.25 | 0.50 | 0.512 | 0.031 | 293.3 | 34.3 |
| BX03#33 | 5.03 | 21.30 | 7.81 | 0.70 | 0.117 | 0.010 | 9.06 | 0.94 | 0.501 | 0.044 | 315.8 | 50.6 |
| BX03#34 | 6.59 | 27.60 | 5.98 | 0.42 | 0.098 | 0.007 | 10.61 | 0.75 | 0.461 | 0.038 | 297.1 | 38.4 |
| BX03#35 | 6.11 | 28.30 | 7.68 | 0.53 | 0.111 | 0.007 | 9.52 | 0.61 | 0.518 | 0.036 | 284.9 | 38.5 |
| BX03#36 | 11.40 | 127.00 | 9.24 | 0.39 | 0.125 | 0.004 | 8.12 | 0.26 | 0.536 | 0.021 | 302.3 | 28.1 |
| BX03#37 | 8.80 | 40.00 | 7.65 | 0.42 | 0.106 | 0.006 | 9.52 | 0.54 | 0.521 | 0.036 | 269.7 | 36.6 |
| BX03#38 | 8.70 | 42.30 | 6.12 | 0.56 | 0.099 | 0.005 | 10.44 | 0.61 | 0.447 | 0.035 | 310.1 | 33.6 |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BX03#39 | 10.90 | 52.60 | 4.38 | 0.31 | 0.082 | 0.006 | 12.51 | 0.92 | 0.396 | 0.033 | 291.7 | 31.2 |
| BX03#40 | 6.96 | 37.00 | 18.28 | 0.83 | 0.201 | 0.009 | 5.10 | 0.23 | 0.666 | 0.034 | 277.8 | 64.8 |
| BX03#41 | 8.17 | 34.40 | 5.96 | 0.69 | 0.097 | 0.006 | 10.71 | 0.70 | 0.440 | 0.042 | 307.7 | 38.7 |
| **BX04** | | | | | | | | | | | | |
| BX04#01 | 8.85 | 75.20 | 10.31 | 0.61 | 0.131 | 0.005 | 7.75 | 0.33 | 0.571 | 0.034 | 288.9 | 40.7 |
| BX04#02 | 8.71 | 57.60 | 4.23 | 0.58 | 0.081 | 0.007 | 12.90 | 1.20 | 0.417 | 0.070 | 277.8 | 50.9 |
| BX04#03 | 6.39 | 30.10 | 10.44 | 0.72 | 0.132 | 0.011 | 7.98 | 0.74 | 0.593 | 0.059 | 269.0 | 67.3 |
| BX04#04 | 7.12 | 35.10 | 6.16 | 0.49 | 0.099 | 0.005 | 10.50 | 0.53 | 0.463 | 0.035 | 301.9 | 32.7 |
| BX04#05 | 7.80 | 43.60 | 9.21 | 0.80 | 0.132 | 0.015 | 8.27 | 0.86 | 0.562 | 0.051 | 300.8 | 64.7 |
| BX04#07 | 7.66 | 35.70 | 7.30 | 1.20 | 0.098 | 0.009 | 10.71 | 0.90 | 0.486 | 0.048 | 281.7 | 46.3 |
| BX04#09 | 7.20 | 31.30 | 6.84 | 0.83 | 0.102 | 0.008 | 10.23 | 0.70 | 0.488 | 0.037 | 291.5 | 39.3 |
| BX04#10 | 7.91 | 51.90 | 13.50 | 1.30 | 0.158 | 0.013 | 6.42 | 0.48 | 0.614 | 0.045 | 295.3 | 64.6 |
| BX04#11 | 6.01 | 22.30 | 8.50 | 1.80 | 0.123 | 0.015 | 8.68 | 0.78 | 0.497 | 0.045 | 342.6 | 61.1 |
| BX04#12 | 7.80 | 35.80 | 8.61 | 0.64 | 0.119 | 0.010 | 8.88 | 0.71 | 0.534 | 0.034 | 296.7 | 42.1 |
| BX04#13 | 7.02 | 36.20 | 10.69 | 0.92 | 0.142 | 0.010 | 7.42 | 0.50 | 0.566 | 0.048 | 318.8 | 60.4 |
| BX04#14 | 7.53 | 32.80 | 15.93 | 0.81 | 0.181 | 0.009 | 5.68 | 0.29 | 0.645 | 0.035 | 294.6 | 58.6 |
| BX04#15 | 24.20 | 22.90 | 1.54 | 0.16 | 0.059 | 0.004 | 17.30 | 1.10 | 0.191 | 0.020 | 305.9 | 20.7 |
| BX04#16 | 6.97 | 32.80 | 7.09 | 0.51 | 0.109 | 0.008 | 9.74 | 0.74 | 0.494 | 0.040 | 305.3 | 41.6 |
| BX04#17 | 8.62 | 38.90 | 5.00 | 0.44 | 0.089 | 0.007 | 11.62 | 0.93 | 0.414 | 0.042 | 307.6 | 37.9 |
| BX04#20 | 5.89 | 26.00 | 8.65 | 0.91 | 0.116 | 0.008 | 9.02 | 0.64 | 0.531 | 0.048 | 293.3 | 49.4 |
| BX04#21 | 6.12 | 31.60 | 8.97 | 0.73 | 0.123 | 0.007 | 8.53 | 0.55 | 0.526 | 0.036 | 315.5 | 41.7 |
| BX04#22 | 8.31 | 36.30 | 8.68 | 0.71 | 0.124 | 0.008 | 8.42 | 0.52 | 0.525 | 0.040 | 317.4 | 46.1 |
| BX04#23 | 5.87 | 30.10 | 10.53 | 0.93 | 0.133 | 0.009 | 7.86 | 0.56 | 0.566 | 0.034 | 297.8 | 44.3 |
| BX04#24 | 8.16 | 46.90 | 9.88 | 0.68 | 0.130 | 0.008 | 8.01 | 0.45 | 0.569 | 0.049 | 288.1 | 55.1 |
| BX04#25 | 5.53 | 33.10 | 9.77 | 0.65 | 0.129 | 0.009 | 8.21 | 0.52 | 0.568 | 0.043 | 287.6 | 50.4 |
| BX04#26 | 5.02 | 20.60 | 11.32 | 0.97 | 0.145 | 0.010 | 7.17 | 0.53 | 0.578 | 0.050 | 311.1 | 63.1 |
| BX04#27 | 7.15 | 37.40 | 8.87 | 0.78 | 0.121 | 0.009 | 8.64 | 0.57 | 0.535 | 0.038 | 301.7 | 44.1 |
| BX04#28 | 6.68 | 29.10 | 4.96 | 0.56 | 0.089 | 0.007 | 12.10 | 0.94 | 0.427 | 0.043 | 298.2 | 38.5 |
| BX04#29 | 7.86 | 38.10 | 5.37 | 0.42 | 0.089 | 0.005 | 11.71 | 0.70 | 0.455 | 0.035 | 277.9 | 30.9 |
| BX04#30 | 8.71 | 39.30 | 3.38 | 0.33 | 0.074 | 0.005 | 13.65 | 0.79 | 0.336 | 0.036 | 301.7 | 28.3 |
| BX04#31 | 5.03 | 20.90 | 10.20 | 1.20 | 0.129 | 0.009 | 7.92 | 0.59 | 0.577 | 0.066 | 279.4 | 71.5 |
| BX04#32 | 9.29 | 50.90 | 5.57 | 0.67 | 0.090 | 0.008 | 11.53 | 0.94 | 0.453 | 0.042 | 282.4 | 39.6 |
| BX04#33 | 7.40 | 34.80 | 5.55 | 0.35 | 0.091 | 0.005 | 11.30 | 0.59 | 0.453 | 0.034 | 286.1 | 30.2 |
| BX04#34 | 8.90 | 39.30 | 4.22 | 0.28 | 0.083 | 0.006 | 12.60 | 0.95 | 0.382 | 0.033 | 306.1 | 31.8 |
| BX04#35 | 6.23 | 39.60 | 14.60 | 1.10 | 0.167 | 0.010 | 6.02 | 0.40 | 0.648 | 0.059 | 267.7 | 82.6 |
| BX04#36 | 8.52 | 40.60 | 4.39 | 0.40 | 0.083 | 0.006 | 12.70 | 1.10 | 0.396 | 0.045 | 297.8 | 37.6 |
| BX04#37 | 6.61 | 37.10 | 7.18 | 0.60 | 0.105 | 0.009 | 10.11 | 0.79 | 0.511 | 0.041 | 281.5 | 42.6 |
| BX04#38 | 9.60 | 27.40 | 7.00 | 1.10 | 0.100 | 0.010 | 10.50 | 1.20 | 0.482 | 0.050 | 291.1 | 49.6 |
| BX04#39 | 10.80 | 62.80 | 9.52 | 0.81 | 0.124 | 0.013 | 8.40 | 1.10 | 0.562 | 0.036 | 282.8 | 48.4 |
| BX04#40 | 6.67 | 30.90 | 8.20 | 1.10 | 0.111 | 0.013 | 9.60 | 1.20 | 0.517 | 0.049 | 292.4 | 55.8 |
| BX04#42 | 4.77 | 20.70 | 15.10 | 1.10 | 0.179 | 0.015 | 5.83 | 0.46 | 0.631 | 0.057 | 310.4 | 87.6 |
| BX04#43 | 7.44 | 38.80 | 10.14 | 0.66 | 0.132 | 0.007 | 7.66 | 0.39 | 0.561 | 0.039 | 302.5 | 46.3 |
| BX04#44 | 7.90 | 42.40 | 4.62 | 0.32 | 0.082 | 0.005 | 12.35 | 0.70 | 0.406 | 0.028 | 288.2 | 26.0 |
| BX04#45 | 8.82 | 39.60 | 5.89 | 0.40 | 0.094 | 0.006 | 10.96 | 0.64 | 0.455 | 0.030 | 294.2 | 29.8 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BX04#46 | 6.24 | 31.90 | 8.34 | 0.91 | 0.112 | 0.009 | 9.07 | 0.73 | 0.528 | 0.051 | 286.2 | 51.7 |
| BX04#47 | 9.90 | 44.20 | 3.96 | 0.46 | 0.079 | 0.006 | 13.30 | 1.00 | 0.365 | 0.034 | 302.7 | 30.9 |
| BX04#48 | 7.72 | 34.60 | 5.71 | 0.44 | 0.093 | 0.006 | 11.26 | 0.72 | 0.457 | 0.038 | 287.9 | 33.6 |
| BX04#49 | 7.85 | 33.10 | 9.48 | 0.66 | 0.126 | 0.007 | 8.21 | 0.47 | 0.537 | 0.032 | 310.8 | 38.7 |
| BX04#50 | 5.18 | 27.90 | 12.06 | 0.82 | 0.150 | 0.009 | 6.95 | 0.42 | 0.581 | 0.039 | 318.6 | 53.4 |
| BX04#51 | 6.22 | 40.10 | 11.19 | 0.71 | 0.140 | 0.008 | 7.40 | 0.42 | 0.572 | 0.039 | 307.7 | 49.6 |
| BX04#52 | 5.91 | 28.00 | 6.04 | 0.73 | 0.095 | 0.009 | 11.02 | 0.91 | 0.461 | 0.050 | 291.3 | 46.8 |
| BX04#53 | 4.28 | 19.50 | 9.04 | 0.70 | 0.126 | 0.007 | 8.06 | 0.41 | 0.533 | 0.046 | 315.7 | 50.6 |
| **BXT09** | | | | | | | | | | | | |
| BXT09#01 | 2.98 | 8.40 | 54.40 | 2.80 | 0.519 | 0.028 | 1.96 | 0.11 | 0.763 | 0.037 | 351.6 | 157.1 |
| BXT09#02 | 11.51 | 23.60 | 13.60 | 1.10 | 0.164 | 0.010 | 6.20 | 0.41 | 0.597 | 0.028 | 326.2 | 42.3 |
| BXT09#03 | 1.51 | 5.40 | 111.00 | 10.00 | 1.050 | 0.110 | 1.04 | 0.10 | 0.810 | 0.059 | 322.6 | 493.2 |
| BXT09#04 | 5.42 | 12.70 | 29.10 | 1.60 | 0.300 | 0.016 | 3.42 | 0.20 | 0.709 | 0.026 | 331.3 | 67.8 |
| BXT09#05 | 9.15 | 20.20 | 19.90 | 2.30 | 0.217 | 0.021 | 4.86 | 0.37 | 0.664 | 0.038 | 316.9 | 72.9 |
| BXT09#06 | 10.30 | 27.30 | 16.70 | 1.10 | 0.195 | 0.013 | 5.40 | 0.34 | 0.633 | 0.028 | 332.3 | 49.8 |
| BXT09#07 | 1.67 | 3.88 | 88.50 | 7.10 | 0.805 | 0.065 | 1.30 | 0.12 | 0.812 | 0.062 | 235.6 | 399.4 |
| BXT09#08 | 2.73 | 7.20 | 39.70 | 2.90 | 0.381 | 0.024 | 2.73 | 0.16 | 0.756 | 0.042 | 280.1 | 130.6 |
| BXT09#09 | 5.84 | 14.50 | 30.50 | 2.10 | 0.312 | 0.018 | 3.36 | 0.20 | 0.723 | 0.033 | 310.4 | 86.2 |
| BXT09#10 | 6.31 | 17.80 | 29.00 | 2.10 | 0.293 | 0.018 | 3.55 | 0.21 | 0.719 | 0.031 | 300.9 | 77.2 |
| BXT09#11 | 1.82 | 4.90 | 88.00 | 11.00 | 0.772 | 0.077 | 1.37 | 0.16 | 0.795 | 0.057 | 328.5 | 351.0 |
| BXT09#12 | 7.68 | 20.40 | 15.00 | 1.30 | 0.174 | 0.013 | 5.88 | 0.39 | 0.628 | 0.043 | 303.8 | 63.7 |
| BXT09#13 | 3.75 | 10.40 | 32.20 | 2.80 | 0.322 | 0.026 | 3.32 | 0.25 | 0.738 | 0.048 | 282.6 | 125.9 |
| BXT09#14 | 1.61 | 5.60 | 70.00 | 8.10 | 0.641 | 0.056 | 1.64 | 0.14 | 0.768 | 0.054 | 407.8 | 275.5 |
| BXT09#15 | 7.62 | 21.40 | 22.70 | 3.20 | 0.230 | 0.016 | 4.38 | 0.30 | 0.709 | 0.079 | 255.0 | 144.5 |
| BXT09#16 | 1.84 | 5.50 | 76.10 | 4.60 | 0.695 | 0.040 | 1.46 | 0.08 | 0.788 | 0.028 | 334.1 | 165.5 |
| BXT09#17 | 4.44 | 13.00 | 27.40 | 1.20 | 0.272 | 0.013 | 3.78 | 0.17 | 0.722 | 0.026 | 273.2 | 61.3 |
| BXT09#18 | 1.64 | 4.90 | 39.80 | 2.50 | 0.386 | 0.027 | 2.63 | 0.18 | 0.763 | 0.046 | 262.6 | 144.3 |
| BXT09#19 | 3.38 | 9.80 | 29.70 | 3.60 | 0.294 | 0.022 | 3.51 | 0.25 | 0.741 | 0.045 | 251.4 | 108.3 |
| BXT09#20 | 4.02 | 12.40 | 41.60 | 2.60 | 0.401 | 0.022 | 2.58 | 0.14 | 0.752 | 0.029 | 307.1 | 98.7 |
| BXT09#21 | 2.04 | 6.30 | 86.50 | 6.10 | 0.774 | 0.046 | 1.32 | 0.09 | 0.799 | 0.034 | 305.3 | 218.4 |
| BXT09#22 | 2.12 | 7.50 | 51.70 | 3.30 | 0.487 | 0.022 | 2.08 | 0.10 | 0.763 | 0.043 | 330.2 | 169.1 |
| BXT09#23 | 1.50 | 5.00 | 55.70 | 4.10 | 0.523 | 0.043 | 2.02 | 0.18 | 0.770 | 0.052 | 325.8 | 218.3 |
| BXT09#24 | 1.68 | 4.30 | 41.70 | 3.60 | 0.406 | 0.026 | 2.53 | 0.17 | 0.746 | 0.064 | 329.8 | 206.1 |
| BXT09#25 | 4.27 | 10.50 | 32.60 | 2.00 | 0.322 | 0.018 | 3.20 | 0.19 | 0.729 | 0.039 | 305.2 | 103.0 |
| BXT09#26 | 1.80 | 5.30 | 71.70 | 5.50 | 0.668 | 0.060 | 1.56 | 0.13 | 0.806 | 0.045 | 227.4 | 245.3 |
| BXT09#27 | 8.35 | 20.70 | 17.20 | 1.20 | 0.194 | 0.012 | 5.20 | 0.31 | 0.659 | 0.036 | 291.4 | 59.2 |
| BXT09#28 | 1.39 | 3.70 | 59.70 | 6.40 | 0.563 | 0.048 | 1.89 | 0.16 | 0.776 | 0.069 | 324.1 | 307.6 |
| BXT09#29 | 7.07 | 17.20 | 19.40 | 1.20 | 0.205 | 0.013 | 5.05 | 0.30 | 0.679 | 0.036 | 275.7 | 62.3 |
| BXT09#30 | 8.80 | 21.80 | 14.43 | 0.85 | 0.168 | 0.007 | 6.09 | 0.25 | 0.625 | 0.034 | 297.6 | 47.7 |
| BXT09#31 | 1.93 | 5.90 | 48.30 | 3.80 | 0.460 | 0.047 | 2.32 | 0.21 | 0.759 | 0.076 | 326.5 | 276.8 |
| BXT09#32 | 1.72 | 5.20 | 38.90 | 3.50 | 0.373 | 0.027 | 2.82 | 0.19 | 0.786 | 0.058 | 186.5 | 174.5 |
| BXT09#33 | 10.76 | 30.60 | 12.46 | 0.73 | 0.151 | 0.007 | 6.75 | 0.30 | 0.601 | 0.032 | 295.0 | 41.0 |
| BXT09#34 | 1.94 | 4.84 | 29.60 | 2.80 | 0.293 | 0.022 | 3.63 | 0.31 | 0.755 | 0.074 | 218.4 | 173.0 |
| BXT09#35 | 1.68 | 4.40 | 46.80 | 7.90 | 0.416 | 0.045 | 2.47 | 0.28 | 0.756 | 0.056 | 305.5 | 188.0 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BXT09#36 | 5.10 | 14.10 | 18.60 | 1.50 | 0.199 | 0.011 | 5.07 | 0.29 | 0.668 | 0.042 | 284.8 | 68.8 |
| BXT09#37 | 1.59 | 4.89 | 60.40 | 6.20 | 0.581 | 0.068 | 1.84 | 0.17 | 0.764 | 0.037 | 388.3 | 179.8 |
| BXT09#38 | 1.53 | 4.17 | 80.50 | 7.20 | 0.743 | 0.067 | 1.43 | 0.11 | 0.795 | 0.044 | 316.4 | 265.3 |
| BXT09#39 | 2.21 | 5.40 | 68.60 | 4.30 | 0.622 | 0.029 | 1.62 | 0.09 | 0.786 | 0.038 | 309.2 | 193.4 |
| BXT09#40 | 2.27 | 7.60 | 36.10 | 2.70 | 0.357 | 0.026 | 2.91 | 0.19 | 0.740 | 0.041 | 307.3 | 120.2 |
| BXT09#41 | 5.17 | 17.80 | 25.90 | 1.20 | 0.271 | 0.015 | 3.77 | 0.20 | 0.692 | 0.027 | 335.6 | 63.6 |
| BXT09#42 | 8.58 | 23.50 | 15.56 | 0.97 | 0.178 | 0.009 | 5.78 | 0.28 | 0.638 | 0.037 | 297.2 | 55.0 |
| BXT09#43 | 2.22 | 6.50 | 64.20 | 5.50 | 0.589 | 0.047 | 1.79 | 0.16 | 0.790 | 0.043 | 274.6 | 206.5 |
| BXT09#44 | 1.72 | 4.30 | 66.70 | 5.50 | 0.621 | 0.052 | 1.72 | 0.12 | 0.778 | 0.042 | 347.3 | 212.1 |
| BXT09#45 | 1.75 | 5.50 | 66.60 | 4.10 | 0.600 | 0.032 | 1.69 | 0.10 | 0.798 | 0.040 | 242.1 | 196.9 |
| **BXT10** | | | | | | | | | | | | |
| BXT10#01 | 6.09 | 19.70 | 9.20 | 0.67 | 0.125 | 0.008 | 8.39 | 0.52 | 0.563 | 0.039 | 278.7 | 45.1 |
| BXT10#02 | 3.85 | 11.60 | 12.91 | 0.88 | 0.158 | 0.009 | 6.58 | 0.37 | 0.615 | 0.047 | 285.3 | 64.0 |
| BXT10#03 | 3.11 | 8.50 | 16.20 | 1.70 | 0.182 | 0.014 | 5.64 | 0.39 | 0.640 | 0.047 | 292.2 | 75.0 |
| BXT10#04 | 3.23 | 8.70 | 16.90 | 1.50 | 0.187 | 0.015 | 5.70 | 0.46 | 0.657 | 0.043 | 275.1 | 71.9 |
| BXT10#05 | 6.83 | 20.30 | 8.58 | 0.51 | 0.116 | 0.006 | 8.83 | 0.44 | 0.553 | 0.031 | 266.3 | 34.2 |
| BXT10#06 | 3.18 | 9.30 | 24.30 | 2.80 | 0.243 | 0.022 | 4.25 | 0.38 | 0.714 | 0.056 | 247.1 | 116.0 |
| BXT10#07 | 6.57 | 22.70 | 9.17 | 0.83 | 0.121 | 0.008 | 8.65 | 0.53 | 0.547 | 0.038 | 283.8 | 42.8 |
| BXT10#08 | 3.79 | 12.80 | 11.02 | 0.98 | 0.138 | 0.010 | 7.44 | 0.55 | 0.582 | 0.042 | 285.6 | 52.8 |
| BXT10#09 | 5.97 | 21.70 | 10.77 | 0.91 | 0.138 | 0.010 | 7.52 | 0.49 | 0.581 | 0.039 | 286.5 | 49.5 |
| BXT10#10 | 7.75 | 26.90 | 7.41 | 0.57 | 0.101 | 0.005 | 10.03 | 0.47 | 0.524 | 0.034 | 256.5 | 31.5 |
| BXT10#11 | 3.78 | 11.10 | 12.90 | 1.70 | 0.153 | 0.012 | 6.91 | 0.51 | 0.604 | 0.045 | 289.7 | 61.8 |
| BXT10#12 | 3.16 | 9.50 | 16.90 | 1.40 | 0.202 | 0.018 | 5.24 | 0.43 | 0.643 | 0.041 | 319.1 | 75.9 |
| BXT10#13 | 3.80 | 11.00 | 9.90 | 1.00 | 0.127 | 0.011 | 8.50 | 0.70 | 0.570 | 0.042 | 275.2 | 50.5 |
| BXT10#14 | 2.65 | 8.20 | 17.90 | 2.20 | 0.197 | 0.021 | 5.60 | 0.59 | 0.661 | 0.050 | 283.4 | 87.6 |
| BXT10#15 | 4.88 | 14.90 | 11.53 | 0.88 | 0.144 | 0.008 | 7.10 | 0.40 | 0.595 | 0.037 | 282.5 | 47.9 |
| BXT10#16 | 3.57 | 10.00 | 16.80 | 2.80 | 0.193 | 0.022 | 5.47 | 0.70 | 0.625 | 0.065 | 332.4 | 108.2 |
| BXT10#17 | 2.47 | 7.90 | 24.90 | 3.70 | 0.258 | 0.030 | 4.39 | 0.49 | 0.687 | 0.047 | 317.0 | 108.6 |
| BXT10#18 | 3.28 | 10.30 | 18.90 | 2.80 | 0.210 | 0.023 | 5.26 | 0.52 | 0.653 | 0.054 | 315.0 | 99.7 |
| BXT10#19 | 42.80 | 137.00 | 3.22 | 0.30 | 0.069 | 0.004 | 14.81 | 0.88 | 0.338 | 0.022 | 276.3 | 21.3 |
| BXT10#20 | 5.68 | 17.40 | 10.52 | 0.70 | 0.132 | 0.007 | 7.68 | 0.38 | 0.583 | 0.043 | 272.3 | 49.7 |
| BXT10#21 | 5.03 | 12.60 | 13.80 | 2.50 | 0.165 | 0.022 | 6.93 | 0.65 | 0.593 | 0.041 | 326.3 | 71.2 |
| BXT10#22 | 7.50 | 25.60 | 9.70 | 1.10 | 0.128 | 0.010 | 8.13 | 0.54 | 0.543 | 0.028 | 304.5 | 38.7 |
| BXT10#23 | 5.17 | 14.90 | 9.54 | 0.64 | 0.124 | 0.007 | 8.35 | 0.51 | 0.567 | 0.043 | 271.7 | 46.7 |
| BXT10#24 | 3.60 | 11.80 | 13.40 | 1.20 | 0.159 | 0.012 | 6.56 | 0.45 | 0.613 | 0.038 | 289.6 | 56.1 |
| BXT10#25 | 8.34 | 28.80 | 6.62 | 0.51 | 0.096 | 0.005 | 10.58 | 0.54 | 0.492 | 0.024 | 267.4 | 24.5 |
| BXT10#26 | 4.09 | 16.40 | 32.10 | 4.10 | 0.306 | 0.033 | 3.53 | 0.38 | 0.733 | 0.037 | 264.4 | 105.3 |
| BXT10#27 | 9.67 | 36.90 | 8.00 | 1.10 | 0.106 | 0.009 | 9.70 | 0.67 | 0.520 | 0.031 | 273.1 | 36.6 |
| BXT10#28 | 3.65 | 10.80 | 11.90 | 1.10 | 0.141 | 0.010 | 7.38 | 0.54 | 0.616 | 0.050 | 253.9 | 61.3 |
| BXT10#29 | 4.47 | 15.00 | 11.17 | 0.95 | 0.142 | 0.010 | 7.36 | 0.50 | 0.581 | 0.056 | 294.9 | 68.1 |
| BXT10#30 | 2.98 | 9.30 | 12.40 | 1.40 | 0.150 | 0.014 | 7.09 | 0.60 | 0.617 | 0.067 | 268.7 | 85.3 |
| BXT10#32 | 7.35 | 24.10 | 8.29 | 0.67 | 0.113 | 0.007 | 9.09 | 0.64 | 0.537 | 0.037 | 275.4 | 39.3 |
| BXT10#33 | 3.41 | 12.20 | 20.50 | 2.10 | 0.232 | 0.020 | 4.68 | 0.35 | 0.673 | 0.052 | 311.1 | 103.8 |
| BXT10#34 | 3.02 | 8.70 | 15.60 | 1.50 | 0.180 | 0.015 | 5.90 | 0.48 | 0.638 | 0.048 | 291.9 | 76.1 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BXT10#35 | 3.39 | 9.70 | 18.70 | 1.90 | 0.198 | 0.020 | 5.36 | 0.50 | 0.693 | 0.045 | 234.8 | 79.9 |
| BXT10#36 | 3.13 | 11.00 | 22.80 | 4.70 | 0.238 | 0.041 | 4.58 | 0.66 | 0.692 | 0.059 | 283.4 | 125.7 |
| BXT10#37 | 6.18 | 21.20 | 17.70 | 3.60 | 0.195 | 0.031 | 6.03 | 0.60 | 0.637 | 0.039 | 317.4 | 82.0 |
| BXT10#38 | 5.14 | 17.80 | 14.00 | 1.70 | 0.164 | 0.015 | 6.50 | 0.50 | 0.647 | 0.048 | 254.6 | 70.0 |
| BXT10#39 | 3.64 | 12.20 | 19.80 | 1.60 | 0.213 | 0.017 | 5.04 | 0.38 | 0.680 | 0.036 | 274.2 | 71.2 |
| BXT10#40 | 3.33 | 10.20 | 14.80 | 1.30 | 0.169 | 0.011 | 6.15 | 0.40 | 0.639 | 0.051 | 273.0 | 73.8 |
| BXT10#41 | 3.21 | 9.90 | 17.00 | 2.10 | 0.178 | 0.011 | 5.60 | 0.36 | 0.678 | 0.074 | 232.5 | 108.4 |
| BXT10#42 | 3.41 | 10.50 | 14.90 | 1.90 | 0.174 | 0.016 | 6.27 | 0.52 | 0.622 | 0.040 | 304.2 | 65.4 |
| BXT10#43 | 5.39 | 19.70 | 10.27 | 0.74 | 0.131 | 0.010 | 8.00 | 0.61 | 0.579 | 0.034 | 273.6 | 43.3 |
| BXT10#44 | 3.90 | 12.20 | 12.30 | 1.30 | 0.149 | 0.011 | 7.03 | 0.53 | 0.604 | 0.048 | 282.2 | 62.9 |
| **BXT16** | | | | | | | | | | | | |
| BXT16#01 | 8.86 | 26.10 | 19.10 | 1.50 | 0.210 | 0.016 | 4.89 | 0.36 | 0.672 | 0.035 | 307.2 | 64.1 |
| BXT16#02 | 3.82 | 5.80 | 28.60 | 1.40 | 0.296 | 0.014 | 3.43 | 0.15 | 0.702 | 0.037 | 362.8 | 90.2 |
| BXT16#03 | 3.27 | 10.70 | 12.30 | 1.40 | 0.160 | 0.015 | 6.72 | 0.61 | 0.576 | 0.046 | 353.1 | 66.2 |
| BXT16#04 | 11.64 | 28.50 | 6.29 | 0.67 | 0.100 | 0.006 | 10.10 | 0.62 | 0.451 | 0.029 | 319.4 | 29.2 |
| BXT16#05 | 14.20 | 41.90 | 7.20 | 0.36 | 0.109 | 0.004 | 9.27 | 0.34 | 0.478 | 0.025 | 325.3 | 25.2 |
| BXT16#06 | 6.90 | 20.20 | 20.00 | 1.10 | 0.222 | 0.010 | 4.54 | 0.17 | 0.655 | 0.035 | 353.1 | 64.5 |
| BXT16#07 | 11.62 | 32.30 | 6.16 | 0.59 | 0.101 | 0.006 | 10.13 | 0.64 | 0.438 | 0.033 | 332.6 | 32.5 |
| BXT16#08 | 11.56 | 33.00 | 4.88 | 0.31 | 0.089 | 0.003 | 11.39 | 0.40 | 0.399 | 0.026 | 319.1 | 21.5 |
| BXT16#09 | 6.43 | 18.40 | 10.53 | 0.71 | 0.134 | 0.008 | 7.53 | 0.42 | 0.563 | 0.039 | 310.4 | 45.0 |
| BXT16#10 | 10.80 | 23.30 | 10.11 | 0.56 | 0.135 | 0.006 | 7.41 | 0.36 | 0.548 | 0.023 | 328.2 | 29.2 |
| BXT16#11 | 9.61 | 26.20 | 7.69 | 0.45 | 0.117 | 0.007 | 8.80 | 0.49 | 0.497 | 0.031 | 329.9 | 34.8 |
| BXT16#12 | 8.21 | 19.30 | 29.50 | 1.20 | 0.297 | 0.012 | 3.39 | 0.13 | 0.721 | 0.030 | 320.8 | 75.8 |
| BXT16#13 | 4.56 | 12.00 | 27.20 | 1.50 | 0.270 | 0.015 | 3.82 | 0.21 | 0.732 | 0.040 | 269.2 | 89.1 |
| BXT16#14 | 1.49 | 4.90 | 48.80 | 5.00 | 0.460 | 0.036 | 2.31 | 0.20 | 0.766 | 0.042 | 335.3 | 158.3 |
| BXT16#15 | 4.69 | 10.10 | 40.40 | 2.40 | 0.392 | 0.026 | 2.60 | 0.16 | 0.760 | 0.052 | 304.5 | 163.4 |
| BXT16#16 | 14.90 | 22.60 | 9.11 | 0.52 | 0.125 | 0.006 | 8.21 | 0.35 | 0.529 | 0.023 | 321.0 | 27.8 |
| BXT16#17 | 4.53 | 12.60 | 9.61 | 0.87 | 0.137 | 0.012 | 7.88 | 0.59 | 0.537 | 0.050 | 344.0 | 61.1 |
| BXT16#18 | 14.30 | 30.40 | 12.44 | 0.82 | 0.156 | 0.008 | 6.59 | 0.36 | 0.576 | 0.024 | 343.9 | 35.7 |
| BXT16#19 | 11.09 | 15.30 | 11.59 | 0.82 | 0.144 | 0.006 | 7.06 | 0.28 | 0.582 | 0.035 | 311.2 | 42.4 |
| BXT16#20 | 8.90 | 23.40 | 16.48 | 0.72 | 0.188 | 0.008 | 5.43 | 0.22 | 0.632 | 0.032 | 333.4 | 50.7 |
| BXT16#21 | 13.45 | 30.70 | 11.30 | 0.51 | 0.142 | 0.007 | 7.11 | 0.32 | 0.578 | 0.025 | 311.1 | 32.8 |
| BXT16#22 | 9.27 | 30.70 | 10.38 | 0.74 | 0.137 | 0.007 | 7.52 | 0.42 | 0.545 | 0.039 | 335.6 | 45.4 |
| BXT16#23 | 13.13 | 27.00 | 8.29 | 0.44 | 0.121 | 0.007 | 8.61 | 0.48 | 0.509 | 0.028 | 329.4 | 32.5 |
| BXT16#24 | 26.20 | 48.70 | 5.27 | 0.37 | 0.090 | 0.005 | 11.31 | 0.59 | 0.423 | 0.037 | 307.4 | 30.9 |
| BXT16#25 | 9.44 | 24.20 | 6.98 | 0.47 | 0.107 | 0.005 | 9.43 | 0.46 | 0.471 | 0.029 | 323.4 | 29.2 |
| BXT16#26 | 7.51 | 21.50 | 6.56 | 0.49 | 0.108 | 0.006 | 9.63 | 0.54 | 0.456 | 0.033 | 339.1 | 34.2 |
| BXT16#27 | 9.02 | 29.10 | 6.39 | 0.40 | 0.107 | 0.007 | 9.85 | 0.66 | 0.445 | 0.029 | 346.3 | 33.0 |
| BXT16#28 | 13.30 | 29.10 | 18.10 | 1.70 | 0.194 | 0.014 | 5.31 | 0.37 | 0.657 | 0.037 | 306.5 | 61.9 |
| BXT16#29 | 6.61 | 11.40 | 21.20 | 1.70 | 0.229 | 0.017 | 4.40 | 0.29 | 0.672 | 0.042 | 334.6 | 80.6 |
| BXT16#30 | 16.20 | 47.10 | 9.66 | 0.69 | 0.132 | 0.008 | 7.84 | 0.39 | 0.538 | 0.023 | 330.4 | 31.6 |
| BXT16#31 | 11.80 | 23.40 | 9.00 | 0.46 | 0.125 | 0.005 | 8.04 | 0.33 | 0.529 | 0.026 | 322.8 | 29.9 |
| BXT16#32 | 10.34 | 30.30 | 11.30 | 1.00 | 0.149 | 0.012 | 7.09 | 0.46 | 0.566 | 0.030 | 340.6 | 45.1 |
| BXT16#33 | 8.35 | 32.70 | 7.74 | 0.64 | 0.116 | 0.006 | 8.85 | 0.44 | 0.495 | 0.033 | 328.9 | 35.1 |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BXT16#34 | 10.22 | 49.10 | 31.60 | 1.70 | 0.308 | 0.018 | 3.31 | 0.18 | 0.733 | 0.032 | 304.1 | 84.0 |
| BXT16#35 | 9.30 | 16.90 | 21.40 | 2.80 | 0.231 | 0.025 | 5.17 | 0.67 | 0.649 | 0.035 | 378.1 | 76.5 |
| BXT16#36 | 11.31 | 24.60 | 10.95 | 0.79 | 0.142 | 0.011 | 7.04 | 0.43 | 0.548 | 0.036 | 344.4 | 48.3 |
| BXT16#37 | 9.08 | 18.80 | 26.50 | 2.10 | 0.266 | 0.016 | 3.87 | 0.24 | 0.706 | 0.030 | 318.4 | 69.3 |
| BXT16#38 | 7.60 | 19.20 | 39.10 | 1.70 | 0.379 | 0.017 | 2.68 | 0.11 | 0.751 | 0.027 | 320.8 | 89.4 |
| BXT16#39 | 6.12 | 14.40 | 19.00 | 1.70 | 0.214 | 0.015 | 4.92 | 0.33 | 0.659 | 0.042 | 334.3 | 75.2 |
| BXT16#40 | 13.42 | 33.80 | 11.78 | 0.53 | 0.153 | 0.006 | 6.67 | 0.27 | 0.564 | 0.026 | 352.1 | 35.6 |
| BXT16#41 | 6.60 | 27.00 | 11.24 | 0.95 | 0.148 | 0.014 | 7.22 | 0.62 | 0.574 | 0.048 | 329.3 | 63.6 |

**Supplementary Material Table S4.** Individual grain apatite fission track data from the Baixintan deposit

| Analysis | $N_S$ | Area ($cm^2$) | $\rho_S$ ($cm^{-2}$) | $^{238}U$ (μg/g) | 1σ | $D_{par}$ (μm) | Age (Ma) | 1σ |
|---|---|---|---|---|---|---|---|---|
| **BX03** | | | | | | | | |
| BX03#1 | 7 | 1.230E-05 | 5.693E+05 | 8.90 | 1.10 | 3.18 | 126.76 | 50.41 |
| BX03#2 | 4 | 1.005E-05 | 3.980E+05 | 7.61 | 0.99 | 4.17 | 103.82 | 53.64 |
| BX03#3 | 6 | 9.292E-06 | 6.457E+05 | 10.70 | 1.30 | 2.85 | 119.65 | 50.96 |
| BX03#4 | 7 | 1.041E-05 | 6.726E+05 | 6.39 | 0.81 | 2.44 | 207.27 | 82.63 |
| BX03#5 | 2 | 4.864E-06 | 4.112E+05 | 4.49 | 0.62 | 2.93 | 180.72 | 130.20 |
| BX03#6 | 2 | 9.626E-06 | 2.078E+05 | 6.10 | 0.73 | 3.09 | 67.81 | 48.63 |
| BX03#7 | 2 | 3.376E-06 | 5.924E+05 | 6.86 | 0.74 | 3.18 | 170.54 | 121.98 |
| BX03#8 | 4 | 6.980E-06 | 5.731E+05 | 7.29 | 0.73 | 3.38 | 155.43 | 79.26 |
| BX03#9 | 1 | 2.451E-06 | 4.079E+05 | 6.99 | 0.70 | 3.41 | 115.73 | 116.31 |
| BX03#10 | 5 | 4.593E-06 | 1.089E+06 | 7.15 | 0.70 | 3.16 | 297.81 | 136.34 |
| BX03#11 | 1 | 3.063E-06 | 3.265E+05 | 9.77 | 0.87 | 2.72 | 66.53 | 66.80 |
| BX03#12 | 4 | 4.663E-06 | 8.578E+05 | 9.40 | 1.10 | 2.05 | 180.08 | 92.47 |
| BX03#13 | 7 | 1.054E-05 | 6.644E+05 | 7.80 | 1.10 | 2.81 | 168.25 | 67.87 |
| BX03#14 | 2 | 8.217E-06 | 2.434E+05 | 6.33 | 0.77 | 3.19 | 76.49 | 54.88 |
| BX03#15 | 3 | 6.076E-06 | 4.937E+05 | 6.43 | 0.73 | 3.00 | 151.85 | 89.35 |
| BX03#16 | 25 | 2.638E-05 | 9.478E+05 | 14.80 | 1.80 | 1.70 | 126.90 | 29.70 |
| BX03#17 | 3 | 4.996E-06 | 6.004E+05 | 8.16 | 0.58 | 2.62 | 145.59 | 84.69 |
| BX03#18 | 5 | 6.793E-06 | 7.361E+05 | 7.29 | 0.89 | 3.65 | 198.97 | 92.24 |
| BX03#19 | 13 | 1.332E-05 | 9.759E+05 | 8.80 | 1.30 | 3.50 | 218.19 | 68.57 |
| BX03#20 | 6 | 4.814E-06 | 1.246E+06 | 9.00 | 1.10 | 2.74 | 271.27 | 115.60 |
| BX03#21 | 3 | 6.346E-06 | 4.728E+05 | 6.92 | 0.87 | 2.31 | 135.30 | 79.95 |
| BX03#22 | 1 | 4.944E-06 | 2.022E+05 | 6.18 | 0.71 | 2.86 | 65.15 | 65.57 |
| BX03#23 | 6 | 7.354E-06 | 8.159E+05 | 8.26 | 0.90 | 3.30 | 194.70 | 82.27 |
| BX03#24 | 3 | 5.450E-06 | 5.505E+05 | 6.46 | 0.84 | 3.53 | 168.32 | 99.61 |
| BX03#25 | 8 | 8.762E-06 | 9.131E+05 | 7.30 | 1.10 | 3.73 | 245.58 | 94.38 |
| BX03#26 | 4 | 7.188E-06 | 5.565E+05 | 10.70 | 1.20 | 3.33 | 103.25 | 52.91 |
| BX03#27 | 2 | 6.697E-06 | 2.987E+05 | 5.03 | 0.76 | 3.10 | 117.76 | 85.15 |
| BX03#28 | 6 | 1.002E-05 | 5.988E+05 | 6.11 | 0.65 | 3.29 | 193.20 | 81.51 |
| BX03#29 | 5 | 5.209E-06 | 9.599E+05 | 11.40 | 1.10 | 3.53 | 166.34 | 76.10 |
| BX03#30 | 5 | 7.304E-06 | 6.845E+05 | 8.80 | 1.10 | 3.35 | 153.81 | 71.42 |
| BX03#31 | 4 | 5.003E-06 | 7.995E+05 | 8.70 | 1.10 | 3.38 | 181.33 | 93.52 |
| BX03#32 | 4 | 3.855E-06 | 1.037E+06 | 10.90 | 1.60 | 3.25 | 187.63 | 97.78 |
| BX03#33 | 5 | 7.944E-06 | 6.294E+05 | 6.96 | 0.80 | 3.11 | 178.48 | 82.41 |
| BX03#34 | 4 | 4.985E-06 | 8.025E+05 | 8.17 | 0.98 | 3.60 | 193.63 | 99.56 |
| **BX04** | | | | | | | | |
| BX04#1 | 5 | 7.109E-06 | 7.034E+05 | 4.44 | 2.84 | 5.45 | 309.49 | 241.55 |
| BX04#2 | 4 | 1.292E-05 | 3.096E+05 | 2.58 | 1.37 | 2.35 | 235.78 | 171.97 |
| BX04#3 | 3 | 7.966E-06 | 3.766E+05 | 3.70 | 2.64 | 5.84 | 200.54 | 184.06 |
| BX04#4 | 3 | 5.859E-06 | 5.120E+05 | 3.09 | 1.77 | 4.33 | 323.34 | 262.97 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BX04#5 | 2 | 4.935E-06 | 4.052E+05 | 3.03 | 1.58 | 3.26 | 262.21 | 230.38 |
| BX04#6 | 2 | 3.731E-06 | 5.360E+05 | 4.65 | 3.28 | 3.20 | 226.64 | 226.37 |
| BX04#7 | 2 | 7.670E-06 | 2.608E+05 | 2.42 | 1.19 | 1.75 | 212.14 | 182.71 |
| BX04#8 | 2 | 5.081E-06 | 3.936E+05 | 3.08 | 1.86 | 2.41 | 250.80 | 233.21 |
| BX04#9 | 2 | 9.896E-06 | 2.021E+05 | 3.61 | 2.18 | 3.66 | 111.07 | 103.28 |
| BX04#10 | 3 | 4.179E-06 | 7.178E+05 | 5.02 | 3.46 | 2.83 | 279.98 | 251.73 |
| BX04#11 | 7 | 8.651E-06 | 8.092E+05 | 5.61 | 1.31 | 2.27 | 282.38 | 125.46 |
| BX04#12 | 2 | 5.393E-06 | 3.709E+05 | 2.75 | 1.58 | 4.06 | 264.41 | 240.90 |
| BX04#13 | 1 | 3.414E-06 | 2.929E+05 | 3.73 | 2.09 | 3.66 | 155.26 | 177.97 |
| BX04#14 | 1 | 4.194E-06 | 2.385E+05 | 2.91 | 1.82 | 2.79 | 161.96 | 191.03 |
| BX04#15 | 2 | 4.995E-06 | 4.004E+05 | 4.08 | 2.65 | 3.12 | 193.46 | 185.75 |
| BX04#16 | 1 | 4.664E-06 | 2.144E+05 | 2.30 | 1.21 | 3.48 | 183.90 | 207.79 |
| BX04#17 | 3 | 7.173E-06 | 4.182E+05 | 2.40 | 0.91 | 3.27 | 339.61 | 234.57 |
| BX04#18 | 5 | 9.032E-06 | 5.536E+05 | 3.83 | 2.69 | 4.59 | 282.96 | 235.60 |
| BX04#19 | 3 | 1.278E-05 | 2.347E+05 | 7.00 | 3.30 | 2.60 | 66.75 | 49.75 |
| BX04#20 | 2 | 4.925E-06 | 4.061E+05 | 4.82 | 3.19 | 4.43 | 166.44 | 161.20 |
| BX04#21 | 1 | 5.068E-06 | 1.973E+05 | 2.51 | 1.52 | 2.93 | 155.42 | 181.69 |
| BX04#22 | 1 | 3.267E-06 | 3.061E+05 | 3.52 | 2.20 | 2.66 | 171.72 | 202.50 |
| BX04#23 | 3 | 1.214E-05 | 2.472E+05 | 3.09 | 1.47 | 4.01 | 158.14 | 118.30 |
| BX04#24 | 3 | 6.955E-06 | 4.314E+05 | 3.10 | 2.06 | 4.33 | 272.64 | 240.01 |
| BX04#25 | 1 | 6.268E-06 | 1.595E+05 | 2.72 | 1.12 | 3.89 | 116.29 | 125.77 |
| BX04#26 | 2 | 7.127E-06 | 2.806E+05 | 2.65 | 1.38 | 4.26 | 208.49 | 183.09 |
| BX04#27 | 3 | 6.663E-06 | 4.503E+05 | 3.43 | 2.03 | 3.13 | 257.51 | 212.91 |
| BX04#28 | 4 | 9.694E-06 | 4.126E+05 | 3.08 | 1.97 | 3.68 | 262.66 | 213.24 |
| BX04#29 | 1 | 4.931E-06 | 2.028E+05 | 1.96 | 1.15 | 3.98 | 203.81 | 236.30 |
| **BTX09** | | | | | | | | |
| BTX09#1 | 22 | 6.221E-05 | 3.537E+05 | 2.98 | 0.26 | 3.75 | 233.25 | 53.73 |
| BTX09#2 | 29 | 2.110E-05 | 1.375E+06 | 11.51 | 0.89 | 3.32 | 234.74 | 47.22 |
| BTX09#3 | 9 | 1.443E-05 | 6.235E+05 | 5.42 | 0.50 | 3.22 | 226.20 | 78.23 |
| BTX09#4 | 37 | 3.379E-05 | 1.095E+06 | 9.15 | 0.92 | 3.51 | 235.15 | 45.31 |
| BTX09#5 | 21 | 2.045E-05 | 1.027E+06 | 10.30 | 1.20 | 3.52 | 196.51 | 48.61 |
| BTX09#6 | 4 | 1.303E-05 | 3.071E+05 | 1.67 | 0.18 | 3.51 | 357.88 | 183.05 |
| BTX09#7 | 7 | 1.824E-05 | 3.837E+05 | 2.73 | 0.24 | 3.50 | 275.30 | 106.83 |
| BTX09#8 | 46 | 4.208E-05 | 1.093E+06 | 5.84 | 0.86 | 3.52 | 364.06 | 75.87 |
| BTX09#9 | 13 | 1.185E-05 | 1.097E+06 | 6.31 | 0.43 | 3.73 | 338.85 | 96.77 |
| BTX09#10 | 8 | 3.388E-05 | 2.361E+05 | 1.82 | 0.21 | 3.43 | 254.52 | 94.66 |
| BTX09#11 | 15 | 2.192E-05 | 6.844E+05 | 3.75 | 0.30 | 3.37 | 355.26 | 96.03 |
| BTX09#12 | 20 | 1.766E-05 | 1.133E+06 | 7.62 | 0.78 | 3.20 | 290.89 | 71.54 |
| BTX09#13 | 6 | 1.494E-05 | 4.017E+05 | 1.84 | 0.10 | 3.71 | 422.95 | 174.13 |
| BTX09#14 | 3 | 2.199E-05 | 1.364E+05 | 1.64 | 0.10 | 3.26 | 164.63 | 95.55 |
| BTX09#15 | 6 | 1.526E-05 | 3.932E+05 | 3.38 | 0.21 | 3.17 | 228.70 | 94.44 |
| BTX09#16 | 3 | 1.662E-05 | 1.805E+05 | 2.12 | 0.12 | 3.50 | 168.17 | 97.56 |
| BTX09#17 | 6 | 2.297E-05 | 2.612E+05 | 1.50 | 0.13 | 2.99 | 339.38 | 141.64 |
| BTX09#18 | 3 | 1.837E-05 | 1.633E+05 | 1.68 | 0.13 | 3.56 | 191.64 | 111.64 |

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|---|---|---|---|---|---|---|---|---|
| BTX09#19 | 13 | 2.052E-05 | 6.335E+05 | 4.27 | 0.42 | 3.29 | 290.27 | 85.42 |
| BTX09#20 | 18 | 1.335E-05 | 1.348E+06 | 7.07 | 0.55 | 3.27 | 370.69 | 92.01 |
| BTX09#21 | 7 | 2.031E-05 | 3.447E+05 | 1.72 | 0.15 | 3.76 | 389.07 | 150.92 |
| BTX09#22 | 24 | 1.670E-05 | 1.437E+06 | 10.76 | 0.86 | 3.34 | 261.87 | 57.41 |
| BTX09#23 | 5 | 1.942E-05 | 2.575E+05 | 1.94 | 0.16 | 3.73 | 260.30 | 118.37 |
| BTX09#24 | 4 | 1.318E-05 | 3.034E+05 | 1.68 | 0.16 | 3.05 | 351.64 | 178.98 |
| BTX09#25 | 14 | 2.051E-05 | 6.826E+05 | 5.10 | 0.38 | 3.37 | 262.43 | 72.81 |
| BTX09#26 | 5 | 1.386E-05 | 3.608E+05 | 1.53 | 0.15 | 3.74 | 455.44 | 208.52 |
| BTX09#27 | 14 | 2.617E-05 | 5.349E+05 | 2.27 | 0.18 | 3.40 | 455.11 | 126.87 |
| BTX09#28 | 25 | 3.282E-05 | 7.617E+05 | 5.17 | 0.43 | 3.49 | 288.30 | 62.45 |
| BTX09#29 | 22 | 2.365E-05 | 9.304E+05 | 8.58 | 0.54 | 3.58 | 213.43 | 47.45 |
| BTX09#30 | 8 | 1.789E-05 | 4.471E+05 | 2.22 | 0.34 | 3.78 | 390.94 | 150.63 |
| BTX09#31 | 5 | 1.747E-05 | 2.862E+05 | 1.72 | 0.15 | 3.18 | 324.68 | 147.93 |
| **BTX10** | | | | | | | | |
| BTX10#1 | 10 | 1.419E-05 | 7.046E+05 | 3.82 | 0.22 | 2.71 | 358.94 | 115.37 |
| BTX10#2 | 18 | 3.113E-05 | 5.783E+05 | 3.27 | 0.18 | 3.20 | 344.54 | 83.39 |
| BTX10#3 | 33 | 2.833E-05 | 1.165E+06 | 11.64 | 0.85 | 3.71 | 197.24 | 37.23 |
| BTX10#4 | 47 | 2.900E-05 | 1.621E+06 | 14.20 | 0.68 | 3.74 | 224.49 | 34.47 |
| BTX10#5 | 54 | 3.507E-05 | 1.540E+06 | 6.90 | 0.36 | 3.73 | 431.85 | 62.94 |
| BTX10#6 | 22 | 1.530E-05 | 1.438E+06 | 11.62 | 0.56 | 3.70 | 243.01 | 53.12 |
| BTX10#7 | 29 | 1.536E-05 | 1.887E+06 | 11.56 | 0.51 | 3.38 | 318.66 | 60.82 |
| BTX10#8 | 23 | 2.870E-05 | 8.015E+05 | 6.43 | 0.46 | 3.51 | 244.74 | 53.95 |
| BTX10#9 | 54 | 5.075E-05 | 1.064E+06 | 10.80 | 0.62 | 4.09 | 194.20 | 28.68 |
| BTX10#10 | 20 | 1.285E-05 | 1.557E+06 | 8.21 | 0.33 | 3.10 | 368.77 | 83.78 |
| BTX10#11 | 11 | 2.342E-05 | 4.696E+05 | 4.56 | 0.25 | 3.37 | 202.86 | 62.17 |
| BTX10#12 | 13 | 2.383E-05 | 5.455E+05 | 4.69 | 0.39 | 2.36 | 228.66 | 66.21 |
| BTX10#13 | 9 | 2.244E-05 | 4.011E+05 | 4.53 | 0.40 | 3.93 | 174.80 | 60.28 |
| BTX10#14 | 25 | 1.114E-05 | 2.243E+06 | 14.30 | 1.50 | 3.83 | 306.49 | 69.22 |
| BTX10#15 | 40 | 2.482E-05 | 1.611E+06 | 8.90 | 0.67 | 2.73 | 352.43 | 61.72 |
| BTX10#16 | 18 | 1.176E-05 | 1.530E+06 | 13.45 | 0.98 | 2.69 | 223.72 | 55.19 |
| BTX10#17 | 10 | 9.508E-06 | 1.052E+06 | 9.27 | 0.78 | 3.17 | 223.20 | 73.04 |
| BTX10#18 | 40 | 2.603E-05 | 1.537E+06 | 13.13 | 0.90 | 3.28 | 230.11 | 39.65 |
| BTX10#19 | 50 | 1.376E-05 | 3.635E+06 | 26.20 | 2.10 | 3.10 | 271.84 | 44.19 |
| BTX10#20 | 23 | 1.367E-05 | 1.682E+06 | 9.44 | 0.77 | 3.46 | 347.06 | 77.71 |
| BTX10#21 | 23 | 2.226E-05 | 1.033E+06 | 7.51 | 0.71 | 3.39 | 269.55 | 61.71 |
| BTX10#22 | 35 | 3.021E-05 | 1.159E+06 | 9.02 | 0.75 | 3.40 | 252.14 | 47.50 |
| BTX10#23 | 60 | 2.141E-05 | 2.802E+06 | 16.20 | 1.00 | 3.68 | 337.16 | 48.25 |
| BTX10#24 | 70 | 3.761E-05 | 1.861E+06 | 11.80 | 0.72 | 3.18 | 308.13 | 41.35 |
| BTX10#25 | 17 | 1.342E-05 | 1.266E+06 | 10.34 | 0.65 | 3.47 | 240.48 | 60.25 |
| BTX10#26 | 14 | 1.038E-05 | 1.348E+06 | 8.35 | 0.44 | 3.58 | 315.23 | 85.87 |
| BTX10#27 | 25 | 1.730E-05 | 1.445E+06 | 10.22 | 0.77 | 3.80 | 276.92 | 59.18 |
| BTX10#28 | 19 | 1.423E-05 | 1.335E+06 | 9.30 | 1.90 | 3.24 | 281.05 | 86.34 |
| BTX10#29 | 8 | 6.026E-06 | 1.328E+06 | 9.08 | 0.76 | 3.06 | 286.24 | 104.00 |
| BTX10#30 | 23 | 1.768E-05 | 1.301E+06 | 7.60 | 0.63 | 2.89 | 333.78 | 74.90 |

**BTX16**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BTX16#1 | 10 | 1.419E-05 | 7.046E+05 | 3.82 | 0.22 | 2.71 | 358.94 | 115.37 |
| BTX16#2 | 18 | 3.113E-05 | 5.783E+05 | 3.27 | 0.18 | 3.20 | 344.54 | 83.39 |
| BTX16#3 | 33 | 2.833E-05 | 1.165E+06 | 11.64 | 0.85 | 3.71 | 197.24 | 37.23 |
| BTX16#4 | 47 | 2.900E-05 | 1.621E+06 | 14.20 | 0.68 | 3.74 | 224.49 | 34.47 |
| BTX16#5 | 54 | 3.507E-05 | 1.540E+06 | 6.90 | 0.36 | 3.73 | 431.85 | 62.94 |
| BTX16#6 | 22 | 1.530E-05 | 1.438E+06 | 11.62 | 0.56 | 3.70 | 243.01 | 53.12 |
| BTX16#7 | 29 | 1.536E-05 | 1.887E+06 | 11.56 | 0.51 | 3.38 | 318.66 | 60.82 |
| BTX16#8 | 23 | 2.870E-05 | 8.015E+05 | 6.43 | 0.46 | 3.51 | 244.74 | 53.95 |
| BTX16#9 | 54 | 5.075E-05 | 1.064E+06 | 10.80 | 0.62 | 4.09 | 194.20 | 28.68 |
| BTX16#10 | 10 | 1.248E-05 | 8.011E+05 | 9.61 | 0.35 | 4.45 | 164.70 | 52.43 |
| BTX16#11 | 20 | 1.285E-05 | 1.557E+06 | 8.21 | 0.33 | 3.10 | 368.77 | 83.78 |
| BTX16#12 | 11 | 2.342E-05 | 4.696E+05 | 4.56 | 0.25 | 3.37 | 202.86 | 62.17 |
| BTX16#13 | 13 | 2.383E-05 | 5.455E+05 | 4.69 | 0.39 | 2.36 | 228.66 | 66.21 |
| BTX16#14 | 9 | 2.244E-05 | 4.011E+05 | 4.53 | 0.40 | 3.93 | 174.80 | 60.28 |
| BTX16#15 | 25 | 1.114E-05 | 2.243E+06 | 14.30 | 1.50 | 3.83 | 306.49 | 69.22 |
| BTX16#16 | 29 | 1.169E-05 | 2.481E+06 | 11.09 | 0.99 | 6.73 | 432.84 | 89.18 |
| BTX16#17 | 40 | 2.482E-05 | 1.611E+06 | 8.90 | 0.67 | 2.73 | 352.43 | 61.72 |
| BTX16#18 | 18 | 1.176E-05 | 1.530E+06 | 13.45 | 0.98 | 2.69 | 223.72 | 55.19 |
| BTX16#19 | 10 | 9.508E-06 | 1.052E+06 | 9.27 | 0.78 | 3.17 | 223.20 | 73.04 |
| BTX16#20 | 40 | 2.603E-05 | 1.537E+06 | 13.13 | 0.90 | 3.28 | 230.11 | 39.65 |
| BTX16#21 | 50 | 1.376E-05 | 3.635E+06 | 26.20 | 2.10 | 3.10 | 271.84 | 44.19 |
| BTX16#22 | 23 | 1.367E-05 | 1.682E+06 | 9.44 | 0.77 | 3.46 | 347.06 | 77.71 |
| BTX16#23 | 23 | 2.226E-05 | 1.033E+06 | 7.51 | 0.71 | 3.39 | 269.55 | 61.71 |
| BTX16#24 | 35 | 3.021E-05 | 1.159E+06 | 9.02 | 0.75 | 3.40 | 252.14 | 47.50 |
| BTX16#25 | 60 | 2.141E-05 | 2.802E+06 | 16.20 | 1.00 | 3.68 | 337.16 | 48.25 |
| BTX16#26 | 70 | 3.761E-05 | 1.861E+06 | 11.80 | 0.72 | 3.18 | 308.13 | 41.35 |
| BTX16#27 | 17 | 1.342E-05 | 1.266E+06 | 10.34 | 0.65 | 3.47 | 240.48 | 60.25 |
| BTX16#28 | 14 | 1.038E-05 | 1.348E+06 | 8.35 | 0.44 | 3.58 | 315.23 | 85.87 |
| BTX16#29 | 25 | 1.730E-05 | 1.445E+06 | 10.22 | 0.77 | 3.80 | 276.92 | 59.18 |
| BTX16#30 | 19 | 1.423E-05 | 1.335E+06 | 9.30 | 1.90 | 3.24 | 281.05 | 86.34 |
| BTX16#31 | 8 | 6.026E-06 | 1.328E+06 | 9.08 | 0.76 | 3.06 | 286.24 | 104.00 |
| BTX16#32 | 23 | 1.768E-05 | 1.301E+06 | 7.60 | 0.63 | 2.89 | 333.78 | 74.90 |