Tectonic controls on sedimentary provenance and basin geography of the Mesoproterozoic Wilton package, McArthur Basin, northern Australia

Supplementary

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## 1. Summary of results

*1.a. U–Pb ages*

*Collara Subgroup*

Two samples from the Collara Subgroup were analysed, including one from the Crawford Formation (Bro-06) and one from the Arnold Sandstone (Bro-07). Sample Bro-06 yielded eighty-eight (out of 142) near-concordant analyses, with 207Pb/206Pb ages ranging from ca. 2838 Ma to 1565 Ma. The kernel density estimate (KDE) plot shows that there is one dominant peak at ca. 1780 Ma. Fifty-three near-concordant (out of 107) analyses were obtained from the sample Bro-07. All analyses, except one, yielded 207Pb/206Pb ages between ca. 2821 Ma and 1492 Ma (Figure S1). The 207Pb/206Pb age spectrum for sample Bro-07 is characterised by a major peak at ca. 1745 Ma and two minor peaks clustering at ca. 1810 Ma and ca. 1895 Ma, respectively (Figure S1).

*Bullita Group*

Samples were collected from the Bynoe Formation (sample D02), the Weaner Sandstone (samples D24 and MS-09) and the Battle Creek Formation (sample MS-06). Forty-eight (out of 98) near-concordant analyses from sample D02 gave a range of 207Pb/206Pb ages between ca. 2946 Ma and 1538 Ma. These data form a major peak at ca. 1835 Ma with minor peaks at ca. 1920 Ma and 1780 Ma (Figure S1). Out of one hundred and nine analyses, sample D24 has twenty-three near-concordant analyses. These analyses yielded 207Pb/206Pb ages ranging from ca. 2450–1659 Ma with a major age peak at ca. 1830 Ma and two minor peaks at ca. 1730 Ma and ca. 1940 Ma (Figure S1). Forty-four near-concordant analyses (out of 102 analyses) were obtained from the other Weaner Sandstone sample (sample MS-09). The age spectrum of this sample is characterised by a main and minor peak at ca. 1830 Ma and ca. 1910 Ma, respectively (Figure S1). The Battle Creek sample (MS-06) gave forty-one near-concordant analyses (out of 124) with 207Pb/206Pb ages ranging from ca. 2517 Ma to 1628 Ma. These data form a dominant age peak at ca. 1810 Ma (Figure S1).

*Tijunna Group*

Two samples from the Wondoan Hill Formation (samples D57 and MS-05) and one from the Stubb Formation (sample MS-03) were analysed.

In the sample from the Wondoan Hill formation (sample D57), out of one hundred and nine analyses, forty-six were near-concordant with 207Pb/206Pb ages ranging from ca. 2969 Ma to 1619 Ma. The KDE plot reveals two peaks; a major age peak at ca. 1795 Ma and a smaller one at ca. 1840 Ma (Figure S1). For sample MS-05, fifty-three of one hundred and eighteen analyses are near-concordant. They are dominated by Palaeoproterozoic 207Pb/206Pb ages ranging from ca. 2282 Ma to 1647 Ma with an age peak at ca. 1795 Ma that is inclusive of most data (Figure S1). One hundred and thirty-three analyses were conducted on zircons from the Stubb Formation (MS-03), forty-nine of which were near-concordant. This sample is dominated by Palaeoproterozoic 207Pb/206Pb ages (2346–1723 Ma), with the exception of three older Neoarchaean ages between 2685 Ma and 2527 Ma. The KDE shows Sample (Figure S1).

*South Nicholson Group*

Three samples were analysed from the South Nicholson Group (AY-01, SOU-01 and JR-01). These were from samples collected in boreholes that sampled beneath the Georgina Basin between Tennant Creek and the Mount Isa Province. One hundred and twenty-two zircons were analysed in sample AY-01 and of those seventy-three were near-concordant. These have a 207Pb/206Pb age range between ca. 2500 Ma and 1540 Ma. The kernel density estimate exhibited a major peak at ca. 1715 Ma and a minor peak at ca. 1810 Ma (Figure S1). Analyses of detrital zircon grains (n=86) in sample SOU-01 yielded fifty-three near-concordant analyses. These have 207Pb/206Pb ages between ca. 2939 Ma and 1550 Ma, with a major peak at ca. 1760 Ma, and one minor peak at ca. 1600 Ma (Figure S1). Sample JR-01 yielded forty-six near-concordant analyses (out of one hundred and twenty-one) with 207Pb/206Pb ages ranging from ca. 2862 Ma to 1519 Ma. The KDE age spectrum for this sample shows a unimodal signature at ca. 1770 Ma (Figure S1).

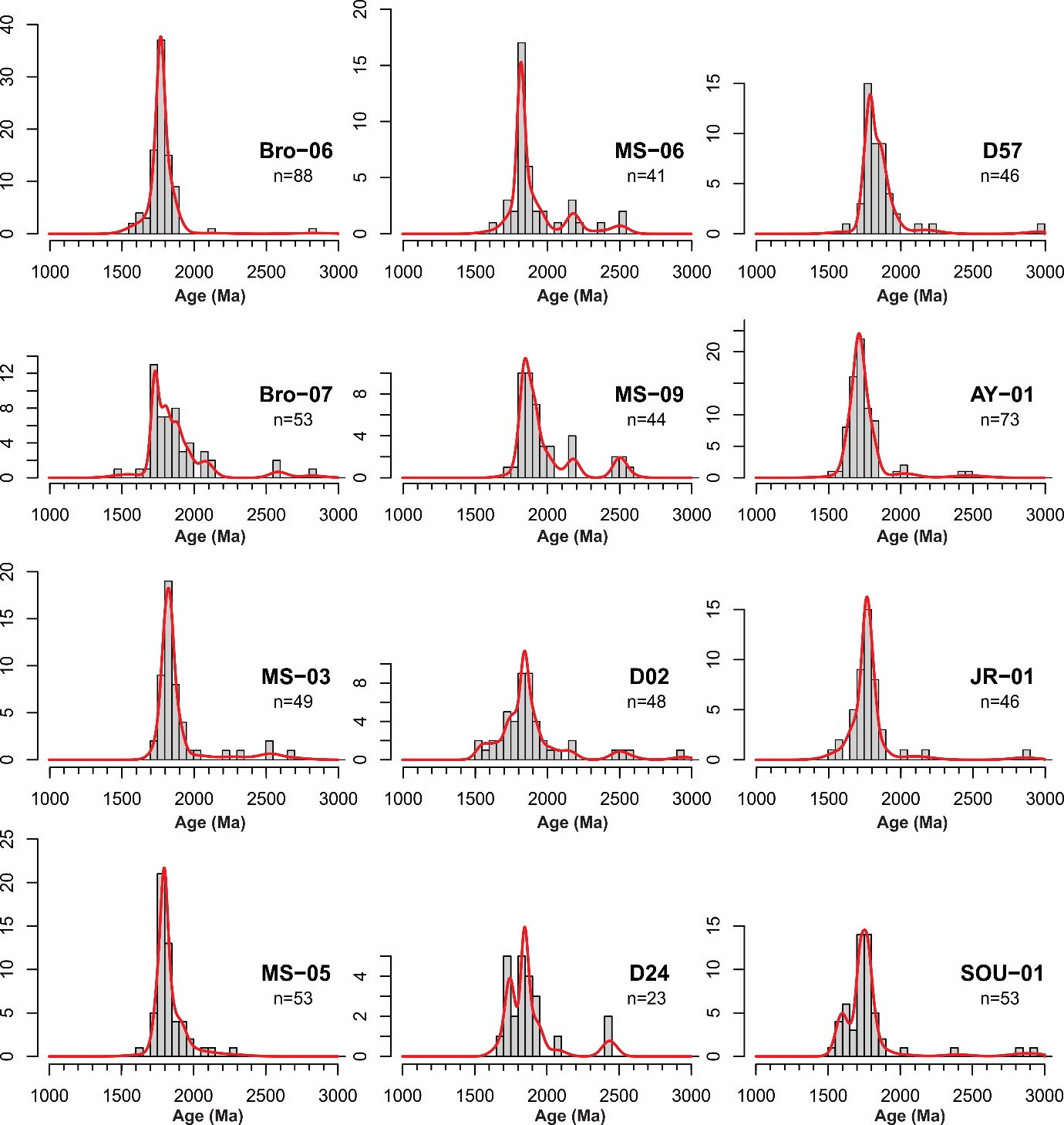


Figure S1. Kernel distribution estimates (KDE) of detrital zircon 207Pb/206Pb age spectra of the analysed samples.

*1.b. Lu-Hf isotope results*

*Collara Subgroup*

Hafnium isotopic data from the Crawford Formation sample (Bro-06) have 176Hf/177Hfi ratios ranging from 0.280926 to 0.281864 (n=24; Table S2). One analysis of a Mesoarchaean zircon, with a 207Pb/206Pb age of ca. 2838 Ma, yielded an εHf(t) value of -1.2. Zircon grains with 207Pb/206Pb ages between 1830 Ma and 1769 Ma have negative εHf(t) values (from -3.0 to -0.4), indicating crystallisation of zircon from a less radiogenic (more chondritic) source magma. Five analyses of late Palaeoproterozoic to early Mesoproterozoic zircon grains (with 207Pb/206Pb ages between 1619 Ma and 1565 Ma) have predominately positive εHf(t) values, ranging from -0.9 to +3.7 (Figure S2). Twenty-four analyses were collected from sample Bro-07 (Arnold Sandstone). These analyses show 176Hf/177Hfi ratios ranging from 0.281083 to 0.281805 (Table S2). One Neoarchaean grain yielded a εHf(t) value of -1.4. Zircon grains with 207Pb/206Pb ages between ca. 1922 Ma and 1712 Ma have a broad range of εHf(t) values between -5.6 and +4.4 (Figure S2).

*Bullita Group*

Sample D-02, from the Bynoe Formation, yielded 176Hf/177Hfi ratios ranging from 0.281200 to 0.281730 (n=24; Table S2). Two analyses, with late Neoarchaean and early Palaeoproterozoic ages, both yielded positive εHf(t) values (+2.4 and +12.0). Zircon grains with 207Pb/206Pb ages between ca. 1931 Ma and 1778 Ma have εHf(t) values ranging from -8.7 to +0.2 (Figure S2). Five zircon grains with late Palaeoproterozoic to early Mesoproterozoic ages (207Pb/206Pb ages ca. 1638–1538 Ma), have negative εHf(t) values ( -16.3 to -1.1).

Thirty-seven analyses from the two Weaner Sandstone samples have 176Hf/177Hfi ratios ranging from 0.280942 to 0.281700 (Table S2). Three analyses, of grains with late Neoarchaean and early Palaeoproterozoic ages, yielded both positive and negative εHf(t) values (-9.8, -8.8 and +1.8; Figure 7). Three zircon grains with 207Pb/206Pb ages between ca. 2199 Ma and 2176 Ma all give positive εHf(t) values (+0.8, +0.9 and +0.1). Zircon grains with 207Pb/206Pb ages between ca. 1949 Ma and 1803 Ma, have predominately negative εHf(t) values (from -12.9 to -0.1; n=23), with only four analyses yielding positive εHf(t) values (from +1.7 to +3.7). Analyses with207Pb/206Pb ages between ca.1750 Ma and 1729 Ma all returned negative εHf(t) values (from -3.7 to -0.7).

The Battle Creek Formation sample (MS-06), has zircon 176Hf/177Hfi ratios ranging from 0.281037 to 0.281696 (n=21; Table S2). Two analyses of grains with late Neoarchaean ages have εHf(t) values of +2.6 and -0.4, respectively. Zircon grains that have 207Pb/206Pb ages between ca. 2205 Ma and 1937 Ma have εHf(t) values ranging from -12.7 to +2.5. Twelve analyses, with207Pb/206Pb ages between ca. 1852 Ma and 1802 Ma, yielded predominately negative εHf(t) values (-6.1 to -0.2), with two analyses giving positive values (+1.8 and +2.1).

*Tijunna Group*

Forty-two zircon grains, from the Wondoan Hill Formation samples (MS-05 and D-57), were analysed, exhibiting a range of 176Hf/177Hfi ratios from 0.281857 to 0.280918 (Table S2). Two older grains with 207Pb/206Pb ages of ca. 2969 Ma and 2282 Ma returned εHf(t) values of +1.6 and -5.2, respectively. For zircon grains with207Pb/206Pb ages between ca. 1978 Ma and 1732 Ma, thirty-six yielded negative εHf(t) values ranging from -6.8 to -0.0, and four analyses returned positive values (+1.5 to +6.9).

The Stubb Formation sample (MS-03), has 176Hf/177Hfi ratios from 0.281156 to 0.281679 (n=20; Table S2). The two analyses of grains with late Neoarchaean ages both yielded positive εHf(t) values (+3.4 and +5.9), whereas zircon grains with207Pb/206Pb ages between ca. 1850 Ma and 1784 Ma yielded predominately negative εHf(t) values ranging from -6.2 to -0.0, with three analyses giving positive εHf(t) values (Figure S2).

*South Nicholson Group*

Twenty-two analyses were collected from sample AY-01, yielding 176Hf/177Hfi ratios from 0.281278 to 0.281694 (Table S2). A single early Palaeoproterozoic grain with a 207Pb/206Pb age of ca. 2447 Ma yielded an εHf(t) value of +2.2. Two zircon grains, with 207Pb/206Pb ages of 2042 Ma and 2041 Ma, yielded εHf(t) values of -7.1 and 1.1, respectively. Zircon grains that have 207Pb/206Pb ages between ca. 1828 Ma and 1615 Ma returned negative εHf(t) values, from -9.5 to -0.5. Two early Mesoproterozoic grains, dated at ca. 1597 Ma and 1542 Ma, also yielded negative εHf(t) values (-2.7 and -5.3).

The 176Hf/177Hfi ratios of grains from sample JR-01 range from 0.280857 to 0.281860 (n=20; Table S2). A single Mesoarchean zircon with a 207Pb/206Pb age of ca. 2862 Ma yielded a negative εHf(t) value of -3.1. A middle Palaeoproterozoic zircon grain (207Pb/206Pb age of ca. 2036 Ma) also gave a negative εHf(t) value (-1.2). Zircon grains with 207Pb/206Pb ages between ca. 1818 Ma and 1659 Ma yielded εHf(t) values between -6.0 and +1.8. Two analyses with early Mesoproterozoic ages (ca. 1585 Ma and 1580 Ma) returned positive εHf(t) values of +2.4 and +2.9.

Sample SOU-01 yielded 176Hf/177Hfi ratios ranging from 0.280979 to 0.281875 (n=19; Table S2). One Mesoarchean zircon grain yielded a positive εHf(t) value of +3.1. Fourteen out of fifteen Palaeoproterozoic analyses yielded negative values (-6.9 to -1.3). One analysis, with a 207Pb/206Pb age of ca. 1828 Ma, gave an εHf(t) value of +2.5. Three early Mesoproterozoic analyses with 207Pb/206Pb ages between ca. 1576 and 1533 Ma yielded both negative and positive εHf(t) values, between -7.3 and +1.6.

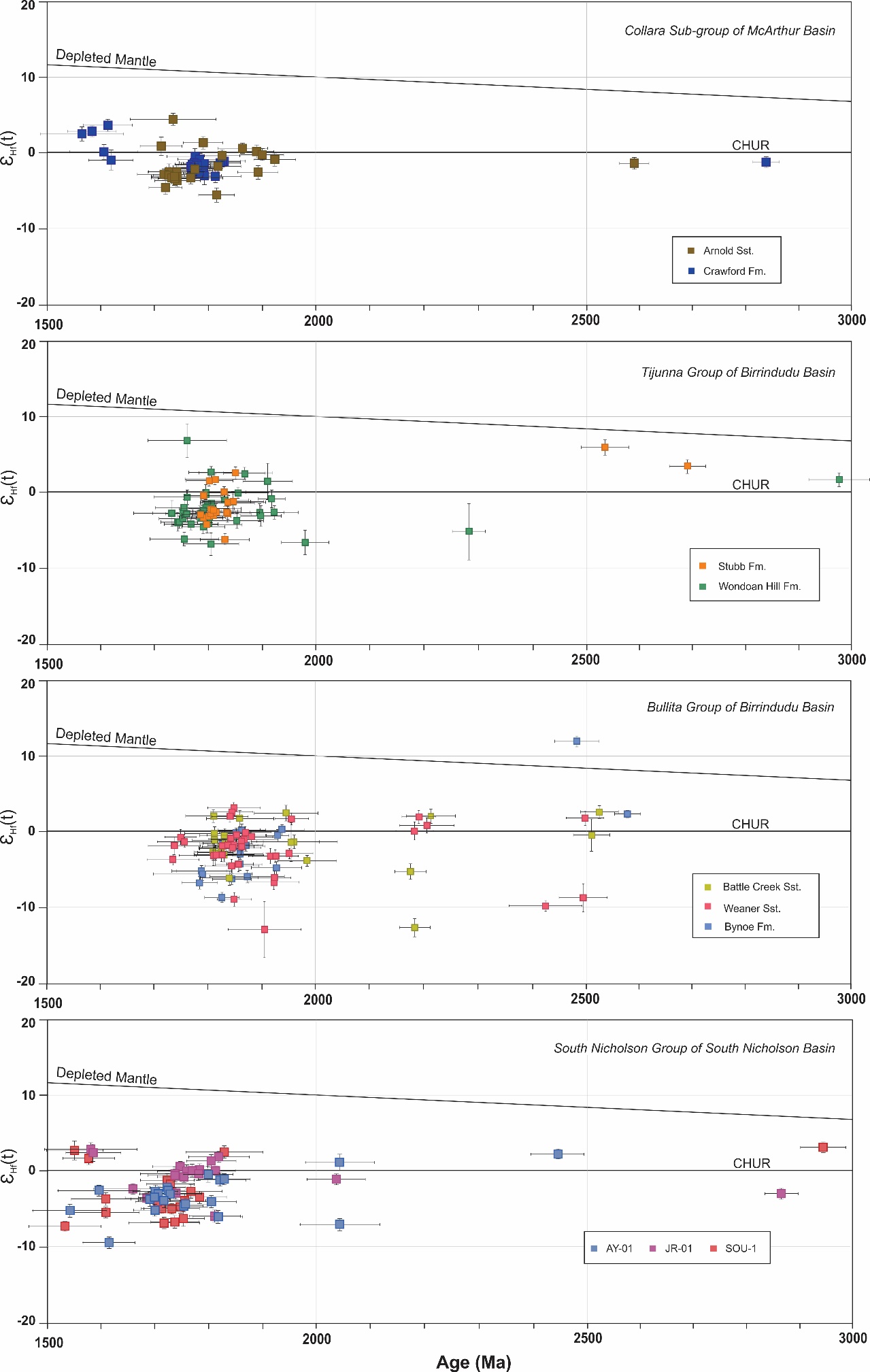


Figure S2. Epsilon hafnium values against 207Pb/206Pb ages plot of the analysed samples.

## 2. Details of analytical results

Table S1 Results of detrital zircon U–Pb analyses

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Sample | Spot | 207Pb/  235U | 2SD | 206Pb/  238U | 2SD | Rho | 207Pb/235U (Ma) | 2SD | 206Pb/238U (Ma) | 207Pb/206Pb (Ma) | 2SD | Conc (%) |
| **Bro-06** | 9-Bro-6-002 | 4.539 | 0.077 | 0.2996 | 0.004 | 0.4 | 1736 | 14 | 1689 | **1781** | **31** | 95 |
|  | 12-Bro-6-005 | 4.606 | 0.084 | 0.3076 | 0.004 | 0.4 | 1750 | 16 | 1731 | **1784** | **30** | 97 |
|  | 19-Bro-6-012 | 4.18 | 0.12 | 0.2872 | 0.007 | 0.4 | 1677 | 25 | 1632 | **1710** | **53** | 95 |
|  | 22-Bro-6-015 | 4.659 | 0.093 | 0.3122 | 0.006 | 0.5 | 1762 | 17 | 1750 | **1771** | **33** | 99 |
|  | 34-Bro-6-020 | 4.58 | 0.1 | 0.301 | 0.005 | 0.5 | 1745 | 18 | 1696 | **1812** | **35** | 94 |
|  | 39-Bro-6-025 | 4.746 | 0.084 | 0.306 | 0.005 | 0.3 | 1774 | 15 | 1724 | **1830** | **40** | 94 |
|  | 42-Bro-6-028 | 4.99 | 0.12 | 0.3158 | 0.006 | 0.4 | 1816 | 20 | 1769 | **1894** | **45** | 93 |
|  | 44-Bro-6-030 | 4.438 | 0.074 | 0.2998 | 0.004 | 0.5 | 1720 | 13 | 1693 | **1749** | **30** | 97 |
|  | 54-Bro-6-033 | 4.56 | 0.11 | 0.3001 | 0.005 | 0.2 | 1739 | 20 | 1691 | **1801** | **48** | 94 |
|  | 55-Bro-6-034 | 4.578 | 0.088 | 0.3041 | 0.004 | 0.2 | 1745 | 17 | 1711 | **1789** | **39** | 96 |
|  | 60-Bro-6-039 | 4.306 | 0.089 | 0.29 | 0.004 | 0.6 | 1694 | 17 | 1644 | **1745** | **32** | 94 |
|  | 62-Bro-6-041 | 4.64 | 0.14 | 0.3041 | 0.006 | 0.5 | 1759 | 26 | 1717 | **1809** | **46** | 95 |
|  | 63-Bro-6-042 | 4.535 | 0.086 | 0.3067 | 0.004 | 0.3 | 1745 | 17 | 1724 | **1771** | **38** | 97 |
|  | 64-Bro-6-043 | 4.622 | 0.08 | 0.3085 | 0.005 | 0.5 | 1751 | 14 | 1733 | **1766** | **33** | 98 |
|  | 66-Bro-6-045 | 4.703 | 0.084 | 0.3124 | 0.006 | 0.4 | 1766 | 15 | 1752 | **1773** | **42** | 99 |
|  | 67-Bro-6-046 | 4.611 | 0.088 | 0.3059 | 0.005 | 0.3 | 1749 | 16 | 1720 | **1782** | **38** | 97 |
|  | 76-Bro-6-048 | 4.153 | 0.092 | 0.2899 | 0.005 | 0.1 | 1668 | 18 | 1640 | **1691** | **51** | 97 |
|  | 79-Bro-6-051 | 4.9 | 0.19 | 0.3206 | 0.010 | 0.2 | 1801 | 32 | 1790 | **1818** | **67** | 98 |
|  | 80-Bro-6-052 | 15.37 | 0.25 | 0.5569 | 0.009 | 0.6 | 2838 | 16 | 2856 | **2838** | **24** | 101 |
|  | 84-Bro-6-056 | 4.14 | 0.2 | 0.2825 | 0.009 | 0.4 | 1660 | 40 | 1604 | **1748** | **90** | 92 |
|  | 86-Bro-6-058 | 4.47 | 0.17 | 0.3041 | 0.008 | 0.7 | 1725 | 33 | 1710 | **1763** | **59** | 97 |
|  | 87-Bro-6-059 | 4.78 | 0.092 | 0.3145 | 0.006 | 0.6 | 1780 | 16 | 1762 | **1788** | **37** | 99 |
|  | 97-Bro-6-062 | 5.05 | 0.15 | 0.3254 | 0.007 | 0.8 | 1824 | 25 | 1815 | **1845** | **39** | 98 |
|  | 98-Bro-6-063 | 4.55 | 0.12 | 0.3054 | 0.006 | 0.4 | 1737 | 23 | 1722 | **1736** | **48** | 99 |
|  | 100-Bro-6-065 | 4.644 | 0.084 | 0.3078 | 0.004 | 0.6 | 1755 | 15 | 1729 | **1790** | **28** | 97 |
|  | 101-Bro-6-066 | 4.63 | 0.16 | 0.3046 | 0.005 | 0.4 | 1751 | 28 | 1713 | **1833** | **61** | 93 |
|  | 103-Bro-6-068 | 4.7 | 0.14 | 0.3109 | 0.008 | 0.5 | 1762 | 24 | 1743 | **1801** | **44** | 97 |
|  | 104-Bro-6-069 | 4.443 | 0.099 | 0.2963 | 0.006 | 0.5 | 1721 | 19 | 1672 | **1778** | **38** | 94 |
|  | 107-Bro-6-072 | 4.42 | 0.11 | 0.3059 | 0.006 | 0.4 | 1717 | 21 | 1723 | **1718** | **45** | 100 |
|  | 110-Bro-6-075 | 5.29 | 0.1 | 0.3364 | 0.005 | 0.4 | 1868 | 17 | 1868 | **1847** | **38** | 101 |
|  | 119-Bro-6-076 | 4.667 | 0.098 | 0.3107 | 0.005 | 0.3 | 1760 | 18 | 1746 | **1759** | **39** | 99 |
|  | 121-Bro-6-078 | 3.86 | 0.096 | 0.2819 | 0.005 | 0.4 | 1604 | 21 | 1600 | **1613** | **46** | 99 |
|  | 122-Bro-6-079 | 4.616 | 0.098 | 0.3081 | 0.005 | 0.5 | 1755 | 18 | 1731 | **1745** | **35** | 99 |
|  | 124-Bro-6-081 | 4.46 | 0.12 | 0.2938 | 0.005 | 0.1 | 1723 | 22 | 1660 | **1803** | **52** | 92 |
|  | 127-Bro-6-084 | 4.39 | 0.11 | 0.3019 | 0.005 | 0.4 | 1707 | 22 | 1700 | **1711** | **49** | 99 |
|  | 131-Bro-6-088 | 4.67 | 0.1 | 0.31 | 0.005 | 0.4 | 1766 | 20 | 1740 | **1783** | **39** | 98 |
|  | 133-Bro-6-090 | 4.53 | 0.11 | 0.3021 | 0.005 | 0.2 | 1736 | 21 | 1704 | **1773** | **51** | 96 |
|  | 141-Bro-6-091 | 4.444 | 0.095 | 0.2942 | 0.005 | 0.6 | 1719 | 18 | 1662 | **1793** | **32** | 93 |
|  | 146-Bro-6-096 | 4.383 | 0.088 | 0.3037 | 0.006 | 0.6 | 1710 | 17 | 1709 | **1703** | **32** | 100 |
|  | 148-Bro-6-098 | 5.15 | 0.11 | 0.3287 | 0.006 | 0.3 | 1848 | 18 | 1831 | **1882** | **41** | 97 |
|  | 150-Bro-6-100 | 4.687 | 0.09 | 0.3166 | 0.005 | 0.5 | 1767 | 17 | 1775 | **1769** | **36** | 100 |
|  | 152-Bro-6-102 | 5.13 | 0.13 | 0.326 | 0.007 | 0.5 | 1844 | 23 | 1818 | **1896** | **50** | 96 |
|  | 154-Bro-6-104 | 4.63 | 0.11 | 0.3136 | 0.006 | 0.4 | 1754 | 20 | 1757 | **1777** | **45** | 99 |
|  | 155-Bro-6-105 | 4.54 | 0.1 | 0.318 | 0.004 | 0.5 | 1742 | 18 | 1782 | **1683** | **33** | 106 |
|  | 164-Bro-6-107 | 4.519 | 0.081 | 0.3149 | 0.005 | 0.4 | 1735 | 15 | 1764 | **1724** | **31** | 102 |
|  | 165-Bro-6-108 | 6.74 | 0.2 | 0.3733 | 0.008 | 0.4 | 2082 | 25 | 2047 | **2109** | **51** | 97 |
|  | 167-Bro-6-110 | 4.425 | 0.074 | 0.3002 | 0.005 | 0.6 | 1716 | 14 | 1692 | **1746** | **26** | 97 |
|  | 168-Bro-6-111 | 4.625 | 0.076 | 0.3143 | 0.004 | 0.4 | 1752 | 14 | 1761 | **1737** | **30** | 101 |
|  | 170-Bro-6-113 | 4.703 | 0.086 | 0.3176 | 0.005 | 0.2 | 1765 | 15 | 1781 | **1761** | **36** | 101 |
|  | 171-Bro-6-114 | 4.591 | 0.082 | 0.3135 | 0.005 | 0.3 | 1749 | 15 | 1757 | **1751** | **34** | 100 |
|  | 173-Bro-6-116 | 5.233 | 0.087 | 0.3319 | 0.005 | 0.4 | 1859 | 15 | 1847 | **1861** | **36** | 99 |
|  | 174-Bro-6-117 | 4.79 | 0.12 | 0.3176 | 0.005 | 0.4 | 1785 | 20 | 1777 | **1778** | **47** | 100 |
|  | 175-Bro-6-118 | 4.68 | 0.092 | 0.3115 | 0.005 | 0.2 | 1761 | 16 | 1747 | **1793** | **40** | 97 |
|  | 185-Bro-6-121 | 4.715 | 0.081 | 0.3134 | 0.005 | 0.3 | 1768 | 14 | 1756 | **1787** | **35** | 98 |
|  | 186-Bro-6-122 | 4.205 | 0.073 | 0.2958 | 0.004 | 0.6 | 1676 | 15 | 1670 | **1669** | **30** | 100 |
|  | 188-Bro-6-124 | 3.84 | 0.16 | 0.2799 | 0.005 | 0.3 | 1589 | 34 | 1590 | **1565** | **76** | 102 |
|  | 189-Bro-6-125 | 4.844 | 0.089 | 0.3276 | 0.005 | 0.4 | 1792 | 16 | 1826 | **1751** | **32** | 104 |
|  | 192-Bro-6-128 | 5.391 | 0.083 | 0.3418 | 0.005 | 0.4 | 1884 | 13 | 1895 | **1871** | **32** | 101 |
|  | 193-Bro-6-129 | 4.49 | 0.18 | 0.3095 | 0.005 | 0.4 | 1733 | 31 | 1738 | **1724** | **65** | 101 |
|  | 195-Bro-6-131 | 3.787 | 0.09 | 0.2815 | 0.004 | 0.3 | 1589 | 19 | 1598 | **1584** | **46** | 101 |
|  | 198-Bro-6-134 | 3.943 | 0.084 | 0.2864 | 0.003 | 0.2 | 1621 | 17 | 1626 | **1619** | **41** | 100 |
|  | 199-Bro-6-135 | 4.904 | 0.091 | 0.3254 | 0.005 | 0.4 | 1807 | 15 | 1816 | **1779** | **34** | 102 |
|  | 202-Bro-6-138 | 4.428 | 0.092 | 0.2971 | 0.004 | 0.3 | 1719 | 17 | 1676 | **1769** | **35** | 95 |
|  | 203-Bro-6-139 | 4.49 | 0.081 | 0.305 | 0.005 | 0.3 | 1727 | 15 | 1715 | **1735** | **37** | 99 |
|  | 212-Bro-6-141 | 4.591 | 0.081 | 0.3111 | 0.005 | 0.7 | 1747 | 14 | 1748 | **1763** | **24** | 99 |
|  | 214-Bro-6-143 | 4.517 | 0.087 | 0.2987 | 0.004 | 0.4 | 1732 | 16 | 1684 | **1773** | **35** | 95 |
|  | 215-Bro-6-144 | 4.841 | 0.086 | 0.3245 | 0.005 | 0.5 | 1790 | 15 | 1814 | **1751** | **31** | 104 |
|  | 216-Bro-6-145 | 4.779 | 0.089 | 0.3185 | 0.005 | 0.2 | 1783 | 16 | 1781 | **1762** | **37** | 101 |
|  | 217-Bro-6-146 | 4.75 | 0.11 | 0.3174 | 0.006 | 0.4 | 1779 | 20 | 1776 | **1770** | **41** | 100 |
|  | 218-Bro-6-147 | 4.73 | 0.12 | 0.3087 | 0.005 | 0.3 | 1772 | 21 | 1734 | **1814** | **47** | 96 |
|  | 15-Bro-6-008 | 4.138 | 0.074 | 0.2975 | 0.005 | 0.6 | 1662 | 14 | 1681 | **1771** | **29** | 95 |
|  | 17-Bro-6-010 | 4.601 | 0.097 | 0.3109 | 0.005 | 0.4 | 1748 | 18 | 1746 | **1871** | **42** | 93 |
|  | 31-Bro-6-017 | 3.7 | 0.13 | 0.2712 | 0.005 | 0.6 | 1569 | 28 | 1594 | **1745** | **53** | 91 |
|  | 32-Bro-6-018 | 3.3 | 0.1 | 0.2592 | 0.005 | 0.4 | 1479 | 24 | 1502 | **1644** | **56** | 91 |
|  | 33-Bro-6-019 | 4.237 | 0.085 | 0.2925 | 0.004 | 0.5 | 1679 | 17 | 1653 | **1831** | **37** | 90 |
|  | 36-Bro-6-022 | 4.207 | 0.083 | 0.3005 | 0.004 | 0.6 | 1673 | 16 | 1693 | **1790** | **28** | 95 |
|  | 38-Bro-6-024 | 3.93 | 0.14 | 0.2814 | 0.008 | 0.8 | 1615 | 29 | 1646 | **1774** | **48** | 93 |
|  | 77-Bro-6-049 | 4.49 | 0.12 | 0.3029 | 0.008 | 0.7 | 1731 | 21 | 1715 | **1883** | **34** | 91 |
|  | 123-Bro-6-080 | 3.9 | 0.13 | 0.2815 | 0.008 | 0.5 | 1612 | 26 | 1627 | **1776** | **53** | 92 |
|  | 125-Bro-6-082 | 3.96 | 0.11 | 0.284 | 0.005 | 0.3 | 1625 | 23 | 1613 | **1761** | **50** | 92 |
|  | 126-Bro-6-083 | 4.604 | 0.095 | 0.3169 | 0.005 | 0.4 | 1748 | 17 | 1695 | **1845** | **43** | 92 |
|  | 142-Bro-6-092 | 4.156 | 0.075 | 0.2964 | 0.004 | 0.3 | 1665 | 15 | 1622 | **1780** | **39** | 91 |
|  | 169-Bro-6-112 | 4.402 | 0.091 | 0.2998 | 0.005 | 0.3 | 1711 | 17 | 1697 | **1874** | **37** | 91 |
|  | 172-Bro-6-115 | 4.49 | 0.11 | 0.3138 | 0.009 | 0.7 | 1733 | 22 | 1659 | **1831** | **44** | 91 |
|  | 187-Bro-6-123 | 3.36 | 0.11 | 0.2662 | 0.005 | 0.0 | 1491 | 25 | 1518 | **1606** | **64** | 95 |
|  | 194-Bro-6-130 | 4.01 | 0.11 | 0.2946 | 0.006 | 0.5 | 1633 | 22 | 1593 | **1735** | **51** | 92 |
|  | 196-Bro-6-132 | 4.63 | 0.11 | 0.3171 | 0.006 | 0.4 | 1753 | 20 | 1696 | **1851** | **44** | 92 |
|  | 120-Bro-6-077 | 4.33 | 0.14 | 0.3033 | 0.009 | 0.8 | 1702 | 28 | 1657 | **1822** | **38** | 91 |
|  | *Rejected analysis* | | | | | | | | | | |  |
|  | *106-Bro-6-071* | *7.37* | *0.17* | *0.3603* | *0.01* | *0.8* | *2166* | *24* | *1982* | *2303* | *35* | 86 |
|  | *144-Bro-6-094* | *2.97* | *0.15* | *0.2361* | *0.007* | *0.6* | *1388* | *40* | *1265* | *1569* | *84* | 81 |
|  | *151-Bro-6-101* | *3.697* | *0.09* | *0.2685* | *0.006* | *0.3* | *1568* | *20* | *1430* | *1765* | *38* | 81 |
|  | *8-Bro-6-001* | *3.54* | *0.13* | *0.212* | *0.008* | *0.7* | *1532* | *30* | *1238* | *1970* | *47* | 63 |
|  | *10-Bro-6-003* | *1.939* | *0.06* | *0.1059* | *0.004* | *0.8* | *1092* | *21* | *648* | *2145* | *39* | 30 |
|  | *11-Bro-6-004* | *3.72* | *0.08* | *0.248* | *0.004* | *0.4* | *1575* | *17* | *1427* | *1787* | *42* | 80 |
|  | *13-Bro-6-006* | *3.714* | *0.07* | *0.2461* | *0.004* | *0.4* | *1573* | *15* | *1418* | *1808* | *36* | 78 |
|  | *14-Bro-6-007* | *2.56* | *0.09* | *0.1664* | *0.005* | *0.6* | *1287* | *25* | *992* | *1762* | *67* | 56 |
|  | *16-Bro-6-009* | *4.1* | *0.11* | *0.2505* | *0.01* | *0.8* | *1657* | *23* | *1439* | *1939* | *38* | 74 |
|  | *18-Bro-6-011* | *3.263* | *0.07* | *0.2054* | *0.004* | *0.6* | *1471* | *17* | *1204* | *1903* | *47* | 63 |
|  | *20-Bro-6-013* | *3.974* | *0.07* | *0.2467* | *0.004* | *0.5* | *1628* | *15* | *1421* | *1905* | *36* | 75 |
|  | *21-Bro-6-014* | *2.947* | *0.08* | *0.2057* | *0.004* | *0.5* | *1396* | *19* | *1208* | *1711* | *42* | 71 |
|  | *30-Bro-6-016* | *2.52* | *0.11* | *0.1615* | *0.008* | *0.9* | *1275* | *33* | *964* | *1855* | *68* | 52 |
|  | *35-Bro-6-021* | *3.1* | *0.1* | *0.2108* | *0.006* | *0.6* | *1430* | *24* | *1233* | *1769* | *41* | 70 |
|  | *37-Bro-6-023* | *2.21* | *0.12* | *0.1443* | *0.004* | *0.7* | *1181* | *37* | *869* | *1854* | *53* | 47 |
|  | *40-Bro-6-026* | *2.48* | *0.2* | *0.163* | *0.012* | *0.9* | *1273* | *55* | *973* | *1786* | *61* | 54 |
|  | *41-Bro-6-027* | *2.173* | *0.06* | *0.147* | *0.003* | *0.6* | *1174* | *19* | *884* | *1778* | *40* | 50 |
|  | *43-Bro-6-029* | *2.296* | *0.06* | *0.146* | *0.004* | *0.7* | *1212* | *18* | *878* | *1877* | *40* | 47 |
|  | *52-Bro-6-031* | *4.09* | *0.15* | *0.2508* | *0.008* | *0.7* | *1651* | *29* | *1441* | *1968* | *47* | 73 |
|  | *53-Bro-6-032* | *3.26* | *0.12* | *0.1867* | *0.006* | *0.9* | *1468* | *29* | *1103* | *2033* | *34* | 54 |
|  | *56-Bro-6-035* | *3.76* | *0.14* | *0.2366* | *0.006* | *0.6* | *1581* | *30* | *1368* | *1893* | *55* | 72 |
|  | *57-Bro-6-036* | *2.898* | *0.06* | *0.1737* | *0.003* | *0.7* | *1380* | *15* | *1032* | *1958* | *28* | 53 |
|  | *58-Bro-6-037* | *2.775* | *0.06* | *0.1676* | *0.006* | *0.9* | *1348* | *16* | *998* | *1949* | *39* | 51 |
|  | *59-Bro-6-038* | *3.353* | *0.09* | *0.195* | *0.005* | *0.8* | *1492* | *20* | *1148* | *2041* | *30* | 56 |
|  | *61-Bro-6-040* | *2.823* | *0.07* | *0.1871* | *0.004* | *0.7* | *1359* | *18* | *1105* | *1785* | *31* | 62 |
|  | *65-Bro-6-044* | *2.066* | *0.05* | *0.1167* | *0.003* | *0.7* | *1138* | *18* | *711* | *2080* | *34* | 34 |
|  | *75-Bro-6-047* | *2.397* | *0.08* | *0.167* | *0.005* | *0.5* | *1239* | *25* | *995* | *1689* | *70* | 59 |
|  | *78-Bro-6-050* | *1.811* | *0.04* | *0.0954* | *0.002* | *0.7* | *1048* | *14* | *587* | *2194* | *34* | 27 |
|  | *81-Bro-6-053* | *3.109* | *0.09* | *0.2019* | *0.006* | *0.6* | *1432* | *22* | *1185* | *1831* | *50* | 65 |
|  | *82-Bro-6-054* | *6.75* | *0.45* | *0.3176* | *0.005* | *0.3* | *2064* | *59* | *1777* | *2394* | *97* | 74 |
|  | *83-Bro-6-055* | *2.9* | *0.11* | *0.1645* | *0.006* | *0.9* | *1380* | *28* | *981* | *2078* | *24* | 47 |
|  | *85-Bro-6-057* | *2.729* | *0.07* | *0.176* | *0.005* | *0.7* | *1337* | *18* | *1045* | *1855* | *35* | 56 |
|  | *88-Bro-6-060* | *3.83* | *0.11* | *0.2501* | *0.006* | *0.7* | *1598* | *22* | *1438* | *1812* | *36* | 79 |
|  | *96-Bro-6-061* | *3.787* | *0.08* | *0.2241* | *0.006* | *0.7* | *1588* | *16* | *1303* | *1970* | *27* | 66 |
|  | *99-Bro-6-064* | *6.87* | *0.28* | *0.2981* | *0.009* | *0.3* | *2091* | *36* | *1681* | *2530* | *70* | 66 |
|  | *102-Bro-6-067* | *3.685* | *0.09* | *0.2462* | *0.008* | *0.7* | *1569* | *19* | *1418* | *1785* | *44* | 79 |
|  | *108-Bro-6-073* | *3.393* | *0.1* | *0.2193* | *0.008* | *0.7* | *1505* | *21* | *1277* | *1821* | *46* | 70 |
|  | *109-Bro-6-074* | *2.752* | *0.08* | *0.1568* | *0.004* | *0.7* | *1340* | *22* | *943* | *2005* | *39* | 47 |
|  | *128-Bro-6-085* | *2.84* | *0.12* | *0.1749* | *0.007* | *0.9* | *1367* | *30* | *1038* | *1920* | *33* | 54 |
|  | *129-Bro-6-086* | *2.581* | *0.1* | *0.161* | *0.005* | *0.8* | *1291* | *27* | *962* | *1880* | *38* | 51 |
|  | *130-Bro-6-087* | *2.215* | *0.05* | *0.1343* | *0.003* | *0.8* | *1184* | *17* | *812* | *1852* | *28* | 44 |
|  | *132-Bro-6-089* | *3.046* | *0.07* | *0.2201* | *0.003* | *0.4* | *1417* | *18* | *1285* | *1633* | *40* | 79 |
|  | *143-Bro-6-093* | *2.761* | *0.05* | *0.1791* | *0.003* | *0.5* | *1350* | *13* | *1062* | *1869* | *27* | 57 |
|  | *145-Bro-6-095* | *4.09* | *0.13* | *0.1946* | *0.007* | *0.9* | *1650* | *26* | *1145* | *2374* | *21* | 48 |
|  | *147-Bro-6-097* | *1.376* | *0.04* | *0.0726* | *0.002* | *0.5* | *877* | *16* | *452* | *2181* | *46* | 21 |
|  | *149-Bro-6-099* | *2.304* | *0.06* | *0.1421* | *0.004* | *0.6* | *1216* | *19* | *856* | *1931* | *43* | 44 |
|  | *153-Bro-6-103* | *3.42* | *0.11* | *0.2292* | *0.005* | *0.6* | *1507* | *26* | *1330* | *1779* | *61* | 75 |
|  | *163-Bro-6-106* | *3.757* | *0.06* | *0.2343* | *0.003* | *0.5* | *1584* | *12* | *1357* | *1888* | *28* | 72 |
|  | *166-Bro-6-109* | *3.29* | *0.1* | *0.1828* | *0.005* | *0.7* | *1479* | *25* | *1082* | *2107* | *42* | 51 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Bro-07** | 220-Bro-7-002 | 4.71 | 0.13 | 0.3201 | 0.006 | 0.7 | 1765 | 23 | 1789 | **1740** | **52** | 103 |
|  | 225-Bro-7-007 | 4.6 | 0.13 | 0.3114 | 0.006 | 0.1 | 1748 | 23 | 1747 | **1767** | **60** | 99 |
|  | 235-Bro-7-010 | 4.559 | 0.098 | 0.3179 | 0.005 | 0.5 | 1746 | 18 | 1778 | **1712** | **39** | 104 |
|  | 236-Bro-7-011 | 4.436 | 0.08 | 0.3067 | 0.005 | 0.5 | 1719 | 15 | 1723 | **1719** | **30** | 100 |
|  | 242-Bro-7-017 | 4.61 | 0.12 | 0.3057 | 0.006 | 0.3 | 1749 | 22 | 1719 | **1793** | **53** | 96 |
|  | 244-Bro-7-019 | 4.12 | 0.18 | 0.285 | 0.006 | 0.4 | 1647 | 34 | 1615 | **1734** | **79** | 93 |
|  | 246-Bro-7-021 | 4.71 | 0.11 | 0.3195 | 0.006 | 0.5 | 1769 | 19 | 1786 | **1742** | **42** | 103 |
|  | 262-Bro-7-030 | 5.14 | 0.11 | 0.3224 | 0.007 | 0.7 | 1840 | 18 | 1805 | **1889** | **32** | 96 |
|  | 264-Bro-7-032 | 4.84 | 0.11 | 0.3253 | 0.005 | 0.4 | 1795 | 18 | 1814 | **1733** | **40** | 105 |
|  | 266-Bro-7-034 | 3.77 | 0.15 | 0.2785 | 0.006 | 0.3 | 1583 | 31 | 1583 | **1601** | **73** | 99 |
|  | 278-Bro-7-039 | 5.29 | 0.11 | 0.3287 | 0.008 | 0.5 | 1866 | 18 | 1836 | **1909** | **42** | 96 |
|  | 281-Bro-7-042 | 4.99 | 0.11 | 0.3275 | 0.006 | 0.4 | 1815 | 18 | 1825 | **1790** | **36** | 102 |
|  | 284-Bro-7-045 | 4.42 | 0.11 | 0.3107 | 0.006 | 0.4 | 1715 | 20 | 1743 | **1695** | **45** | 103 |
|  | 285-Bro-7-046 | 4.78 | 0.11 | 0.3136 | 0.006 | 0.6 | 1783 | 19 | 1757 | **1825** | **33** | 96 |
|  | 288-Bro-7-049 | 4.686 | 0.094 | 0.32 | 0.006 | 0.5 | 1763 | 17 | 1789 | **1731** | **38** | 103 |
|  | 291-Bro-7-052 | 4.94 | 0.11 | 0.326 | 0.009 | 0.5 | 1810 | 19 | 1817 | **1817** | **43** | 100 |
|  | 292-Bro-7-053 | 4.67 | 0.12 | 0.3177 | 0.006 | 0.5 | 1765 | 22 | 1778 | **1728** | **42** | 103 |
|  | 305-Bro-7-059 | 4.8 | 0.11 | 0.3121 | 0.007 | 0.5 | 1788 | 19 | 1749 | **1834** | **41** | 95 |
|  | 308-Bro-7-062 | 4.986 | 0.096 | 0.3108 | 0.006 | 0.3 | 1817 | 17 | 1743 | **1899** | **40** | 92 |
|  | 310-Bro-7-064 | 5.38 | 0.11 | 0.3358 | 0.007 | 0.4 | 1882 | 18 | 1865 | **1891** | **37** | 99 |
|  | 313-Bro-7-067 | 4.663 | 0.094 | 0.3187 | 0.005 | 0.2 | 1760 | 17 | 1782 | **1726** | **39** | 103 |
|  | 314-Bro-7-068 | 4.777 | 0.089 | 0.3248 | 0.005 | 0.5 | 1779 | 16 | 1812 | **1726** | **29** | 105 |
|  | 323-Bro-7-070 | 5.19 | 0.17 | 0.3168 | 0.008 | 0.6 | 1846 | 29 | 1780 | **1945** | **47** | 92 |
|  | 324-Bro-7-071 | 4.795 | 0.097 | 0.3127 | 0.005 | 0.4 | 1783 | 17 | 1753 | **1819** | **38** | 96 |
|  | 326-Bro-7-073 | 15.3 | 0.31 | 0.553 | 0.013 | 0.6 | 2837 | 19 | 2834 | **2821** | **28** | 100 |
|  | 331-Bro-7-078 | 12.16 | 0.19 | 0.504 | 0.01 | 0.6 | 2615 | 15 | 2635 | **2588** | **27** | 102 |
|  | 332-Bro-7-079 | 4.66 | 0.15 | 0.3003 | 0.008 | 0.6 | 1759 | 26 | 1691 | **1867** | **49** | 91 |
|  | 333-Bro-7-080 | 10.83 | 0.23 | 0.4655 | 0.009 | 0.6 | 2510 | 18 | 2462 | **2586** | **25** | 95 |
|  | 336-Bro-7-083 | 5.26 | 0.13 | 0.3314 | 0.007 | 0.6 | 1858 | 21 | 1844 | **1876** | **33** | 98 |
|  | 347-Bro-7-087 | 4.991 | 0.095 | 0.3241 | 0.006 | 0.5 | 1821 | 16 | 1809 | **1814** | **33** | 100 |
|  | 350-Bro-7-090 | 5.44 | 0.14 | 0.3306 | 0.008 | 0.5 | 1894 | 23 | 1839 | **1966** | **46** | 94 |
|  | 353-Bro-7-093 | 5.16 | 0.14 | 0.3322 | 0.009 | 0.6 | 1843 | 23 | 1847 | **1863** | **46** | 99 |
|  | 354-Bro-7-094 | 5.26 | 0.13 | 0.3167 | 0.007 | 0.6 | 1859 | 21 | 1776 | **1960** | **34** | 91 |
|  | 355-Bro-7-095 | 4.97 | 0.11 | 0.3319 | 0.007 | 0.5 | 1812 | 18 | 1846 | **1761** | **36** | 105 |
|  | 356-Bro-7-096 | 4.99 | 0.17 | 0.3244 | 0.006 | 0.5 | 1816 | 29 | 1810 | **1815** | **52** | 100 |
|  | 359-Bro-7-099 | 4.76 | 0.14 | 0.3189 | 0.007 | 0.6 | 1775 | 24 | 1789 | **1774** | **46** | 101 |
|  | 360-Bro-7-100 | 4.89 | 0.11 | 0.335 | 0.007 | 0.7 | 1797 | 19 | 1861 | **1737** | **30** | 107 |
|  | 369-Bro-7-102 | 4.83 | 0.13 | 0.3326 | 0.008 | 0.4 | 1788 | 23 | 1849 | **1742** | **47** | 106 |
|  | 370-Bro-7-103 | 5.58 | 0.14 | 0.3453 | 0.008 | 0.5 | 1910 | 22 | 1916 | **1922** | **39** | 100 |
|  | 371-Bro-7-104 | 4.54 | 0.14 | 0.3113 | 0.007 | 0.4 | 1739 | 25 | 1750 | **1717** | **49** | 102 |
|  | 375-Bro-7-108 | 4.86 | 0.11 | 0.3249 | 0.007 | 0.6 | 1794 | 20 | 1812 | **1783** | **39** | 102 |
|  | 377-Bro-7-110 | 4.83 | 0.15 | 0.3247 | 0.008 | 0.3 | 1790 | 26 | 1817 | **1789** | **66** | 102 |
|  | 378-Bro-7-111 | 6.62 | 0.21 | 0.357 | 0.013 | 0.8 | 2059 | 29 | 1965 | **2126** | **60** | 92 |
|  | 379-Bro-7-112 | 3.7 | 0.13 | 0.2887 | 0.007 | 0.6 | 1566 | 27 | 1633 | **1492** | **50** | 109 |
|  | 381-Bro-7-114 | 4.97 | 0.14 | 0.3161 | 0.009 | 0.7 | 1815 | 24 | 1769 | **1860** | **44** | 95 |
|  | 257-Bro-7-025 | 4.88 | 0.16 | 0.3126 | 0.006 | 0.4 | 1796 | 27 | 1743 | **1884** | **53** | 93 |
|  | 270-Bro-7-038 | 4.19 | 0.14 | 0.2822 | 0.008 | 0.6 | 1669 | 27 | 1651 | **1818** | **52** | 91 |
|  | 287-Bro-7-048 | 5.44 | 0.12 | 0.3178 | 0.006 | 0.3 | 1893 | 19 | 1929 | **2102** | **46** | 92 |
|  | 300-Bro-7-054 | 5.34 | 0.13 | 0.3153 | 0.005 | 0.4 | 1875 | 21 | 1917 | **2066** | **39** | 93 |
|  | 303-Bro-7-057 | 5.19 | 0.1 | 0.3205 | 0.005 | 0.3 | 1849 | 17 | 1842 | **1981** | **37** | 93 |
|  | 306-Bro-7-060 | 5.77 | 0.22 | 0.331 | 0.01 | 0.3 | 1943 | 34 | 1891 | **2083** | **68** | 91 |
|  | 327-Bro-7-074 | 5.4 | 0.19 | 0.3225 | 0.009 | 0.5 | 1898 | 31 | 1872 | **2054** | **57** | 91 |
|  | 373-Bro-7-106 | 5.12 | 0.18 | 0.3164 | 0.008 | 0.1 | 1836 | 30 | 1822 | **1960** | **63** | 93 |
|  | *Rejected analysis* | | | | | | | | | | |  |
|  | *219-Bro-7-001* | *7.39* | *0.46* | *0.1372* | *0.006* | *0.9* | *2157* | *57* | *828* | *3864* | *48* | 21 |
|  | *221-Bro-7-003* | *7.22* | *0.45* | *0.2771* | *0.008* | *0.3* | *2130* | *56* | *1576* | *2710* | *130* | 58 |
|  | *223-Bro-7-005* | *7.48* | *0.2* | *0.3078* | *0.008* | *0.5* | *2167* | *25* | *1728* | *2610* | *44* | 66 |
|  | *224-Bro-7-006* | *5.86* | *0.25* | *0.1715* | *0.005* | *0.3* | *1954* | *36* | *1020* | *3171* | *70* | 32 |
|  | *226-Bro-7-008* | *11.36* | *0.18* | *0.2141* | *0.004* | *0.8* | *2551* | *15* | *1250* | *3847* | *16* | 32 |
|  | *234-Bro-7-009* | *11.65* | *0.32* | *0.428* | *0.011* | *0.6* | *2574* | *25* | *2297* | *2839* | *41* | 81 |
|  | *237-Bro-7-012* | *6.52* | *0.98* | *0.1977* | *0.004* | *0.1* | *2000* | *140* | *1163* | *2980* | *250* | 39 |
|  | *239-Bro-7-014* | *10.98* | *0.32* | *0.403* | *0.012* | *0.8* | *2519* | *28* | *2193* | *2777* | *35* | 79 |
|  | *240-Bro-7-015* | *10.33* | *0.14* | *0.1406* | *0.002* | *0.7* | *2464* | *12* | *848* | *4338* | *17* | 20 |
|  | *241-Bro-7-016* | *6.71* | *0.22* | *0.1697* | *0.004* | *0.7* | *2069* | *29* | *1010* | *3376* | *38* | 30 |
|  | *243-Bro-7-018* | *13.89* | *0.29* | *0.2996* | *0.008* | *0.7* | *2740* | *19* | *1688* | *3630* | *25* | 47 |
|  | *245-Bro-7-020* | *10.25* | *0.3* | *0.2582* | *0.007* | *0.4* | *2452* | *28* | *1479* | *3357* | *55* | 44 |
|  | *247-Bro-7-022* | *11.06* | *0.32* | *0.2122* | *0.005* | *0.7* | *2524* | *27* | *1240* | *3809* | *32* | 33 |
|  | *248-Bro-7-023* | *4.87* | *0.13* | *0.2846* | *0.005* | *0.4* | *1796* | *22* | *1614* | *2039* | *47* | 79 |
|  | *256-Bro-7-024* | *5.24* | *0.15* | *0.28* | *0.005* | *0.2* | *1857* | *24* | *1590* | *2172* | *57* | 73 |
|  | *258-Bro-7-026* | *4.97* | *0.15* | *0.2823* | *0.009* | *0.2* | *1812* | *26* | *1603* | *2071* | *66* | 77 |
|  | *259-Bro-7-027* | *5.84* | *0.36* | *0.2832* | *0.006* | *0.1* | *1943* | *52* | *1611* | *2340* | *110* | 69 |
|  | *260-Bro-7-028* | *4.94* | *0.26* | *0.2876* | *0.004* | *0.1* | *1815* | *46* | *1629* | *2010* | *93* | 81 |
|  | *263-Bro-7-031* | *5.93* | *0.16* | *0.201* | *0.006* | *0.7* | *1963* | *24* | *1180* | *2954* | *31* | 40 |
|  | *267-Bro-7-035* | *5.002* | *0.1* | *0.287* | *0.005* | *0.4* | *1820* | *17* | *1626* | *2059* | *39* | 79 |
|  | *268-Bro-7-036* | *5.63* | *0.38* | *0.1936* | *0.007* | *0.5* | *1910* | *59* | *1140* | *2870* | *100* | 40 |
|  | *269-Bro-7-037* | *4.99* | *0.11* | *0.2884* | *0.004* | *0.5* | *1819* | *20* | *1633* | *2030* | *35* | 80 |
|  | *279-Bro-7-040* | *5.59* | *0.13* | *0.2648* | *0.008* | *0.4* | *1916* | *19* | *1513* | *2393* | *48* | 63 |
|  | *280-Bro-7-041* | *9.33* | *0.2* | *0.1822* | *0.004* | *0.7* | *2370* | *20* | *1079* | *3778* | *23* | 29 |
|  | *282-Bro-7-043* | *8.68* | *0.19* | *0.2695* | *0.006* | *0.5* | *2302* | *20* | *1537* | *3079* | *39* | 50 |
|  | *283-Bro-7-044* | *5.485* | *0.1* | *0.2985* | *0.005* | *0.6* | *1898* | *15* | *1683* | *2156* | *29* | 78 |
|  | *286-Bro-7-047* | *9.56* | *0.15* | *0.2919* | *0.004* | *0.5* | *2394* | *14* | *1650* | *3096* | *21* | 53 |
|  | *289-Bro-7-050* | *8.37* | *0.33* | *0.2736* | *0.009* | *0.7* | *2277* | *32* | *1558* | *2952* | *59* | 53 |
|  | *290-Bro-7-051* | *14.94* | *0.29* | *0.462* | *0.017* | *0.6* | *2811* | *18* | *2446* | *3071* | *47* | 80 |
|  | *301-Bro-7-055* | *5.71* | *0.15* | *0.297* | *0.007* | *0.3* | *1930* | *22* | *1675* | *2235* | *43* | 75 |
|  | *302-Bro-7-056* | *5.73* | *0.13* | *0.2458* | *0.007* | *0.1* | *1933* | *19* | *1416* | *2544* | *52* | 56 |
|  | *304-Bro-7-058* | *9.01* | *0.24* | *0.1748* | *0.006* | *0.9* | *2341* | *24* | *1038* | *3802* | *24* | 27 |
|  | *307-Bro-7-061* | *7.19* | *0.49* | *0.2396* | *0.004* | *0.1* | *2138* | *63* | *1387* | *2950* | *130* | 47 |
|  | *309-Bro-7-063* | *3.158* | *0.06* | *0.1828* | *0.004* | *0.8* | *1446* | *14* | *1082* | *2054* | *26* | 53 |
|  | *311-Bro-7-065* | *10.82* | *0.18* | *0.2482* | *0.006* | *0.6* | *2509* | *16* | *1428* | *3530* | *27* | 40 |
|  | *312-Bro-7-066* | *6.13* | *0.19* | *0.2852* | *0.006* | *0.7* | *1989* | *28* | *1617* | *2389* | *37* | 68 |
|  | *322-Bro-7-069* | *5.9* | *0.14* | *0.2937* | *0.006* | *0.5* | *1961* | *20* | *1659* | *2296* | *38* | 72 |
|  | *325-Bro-7-072* | *5.58* | *0.19* | *0.3053* | *0.005* | *0.1* | *1912* | *28* | *1722* | *2100* | *57* | 82 |
|  | *328-Bro-7-075* | *6.18* | *0.34* | *0.2829* | *0.008* | *0.1* | *2000* | *50* | *1605* | *2440* | *120* | 66 |
|  | *329-Bro-7-076* | *9.11* | *0.25* | *0.2981* | *0.01* | *0.1* | *2346* | *25* | *1680* | *2988* | *75* | 56 |
|  | *330-Bro-7-077* | *7.91* | *0.17* | *0.2613* | *0.007* | *0.6* | *2221* | *19* | *1500* | *2990* | *29* | 50 |
|  | *334-Bro-7-081* | *5.26* | *0.14* | *0.2961* | *0.007* | *0.6* | *1860* | *20* | *1670* | *2073* | *39* | 81 |
|  | *344-Bro-7-084* | *6.57* | *0.13* | *0.2546* | *0.007* | *0.5* | *2053* | *18* | *1461* | *2712* | *40* | 54 |
|  | *346-Bro-7-086* | *6.03* | *0.16* | *0.3073* | *0.01* | *0.5* | *1977* | *23* | *1726* | *2249* | *45* | 77 |
|  | *348-Bro-7-088* | *7* | *0.2* | *0.3331* | *0.008* | *0.7* | *2107* | *26* | *1852* | *2381* | *31* | 78 |
|  | *349-Bro-7-089* | *5.25* | *0.17* | *0.2654* | *0.007* | *0.4* | *1859* | *27* | *1516* | *2277* | *57* | 67 |
|  | *351-Bro-7-091* | *4.91* | *0.2* | *0.2451* | *0.006* | *0.0* | *1805* | *33* | *1413* | *2271* | *77* | 62 |
|  | *352-Bro-7-092* | *5* | *0.1* | *0.2533* | *0.005* | *0.5* | *1817* | *18* | *1455* | *2263* | *32* | 64 |
|  | *357-Bro-7-097* | *8.35* | *0.34* | *0.3297* | *0.007* | *0.5* | *2269* | *39* | *1845* | *2677* | *62* | 69 |
|  | *358-Bro-7-098* | *6.3* | *0.26* | *0.324* | *0.01* | *0.2* | *2012* | *37* | *1806* | *2253* | *72* | 80 |
|  | *368-Bro-7-101* | *9.12* | *0.35* | *0.3155* | *0.008* | *0.3* | *2348* | *35* | *1766* | *2905* | *60* | 61 |
|  | *376-Bro-7-109* | *7.06* | *0.18* | *0.2495* | *0.007* | *0.7* | *2116* | *23* | *1434* | *2864* | *35* | 50 |
|  | *382-Bro-7-115* | *5.74* | *0.15* | *0.2988* | *0.008* | *0.2* | *1934* | *23* | *1684* | *2226* | *64* | 76 |
|  | *383-Bro-7-116* | *3.3* | *0.16* | *0.1712* | *0.008* | *0.8* | *1485* | *35* | *1018* | *2266* | *47* | 45 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| **MS-03** | 187-MS-03-007 | 5.26 | 0.12 | 0.3298 | 0.005 | 0.5 | 1860 | 20 | 1837 | **1881** | **37** | 98 |
|  | 192-MS-03-012 | 4.9 | 0.12 | 0.328 | 0.005 | 0.5 | 1803 | 20 | 1828 | **1768** | **40** | 103 |
|  | 195-MS-03-015 | 4.67 | 0.14 | 0.3123 | 0.006 | 0.5 | 1767 | 27 | 1751 | **1804** | **57** | 97 |
|  | 209-MS-03-023 | 5.6 | 0.12 | 0.3445 | 0.006 | 0.5 | 1912 | 18 | 1911 | **1904** | **36** | 100 |
|  | 234-MS-03-042 | 4.77 | 0.1 | 0.3286 | 0.006 | 0.4 | 1780 | 18 | 1830 | **1739** | **39** | 105 |
|  | 237-MS-03-045 | 11.28 | 0.22 | 0.491 | 0.01 | 0.7 | 2544 | 18 | 2577 | **2527** | **25** | 102 |
|  | 249-MS-03-051 | 8.93 | 0.17 | 0.435 | 0.009 | 0.7 | 2328 | 18 | 2326 | **2346** | **31** | 99 |
|  | 251-MS-03-053 | 4.829 | 0.095 | 0.3246 | 0.006 | 0.6 | 1790 | 17 | 1811 | **1754** | **32** | 103 |
|  | 253-MS-03-055 | 5.05 | 0.12 | 0.3385 | 0.007 | 0.5 | 1830 | 21 | 1878 | **1806** | **40** | 104 |
|  | 254-MS-03-056 | 5.13 | 0.13 | 0.3363 | 0.006 | 0.6 | 1840 | 22 | 1868 | **1802** | **44** | 104 |
|  | 255-MS-03-057 | 5.23 | 0.14 | 0.3349 | 0.006 | 0.5 | 1855 | 23 | 1865 | **1833** | **44** | 102 |
|  | 258-MS-03-060 | 4.9 | 0.19 | 0.3211 | 0.009 | 0.8 | 1797 | 33 | 1794 | **1812** | **56** | 99 |
|  | 266-MS-03-062 | 11.5 | 0.53 | 0.492 | 0.018 | 0.8 | 2552 | 44 | 2573 | **2534** | **44** | 102 |
|  | 267-MS-03-063 | 4.49 | 0.11 | 0.3136 | 0.005 | 0.2 | 1734 | 19 | 1758 | **1723** | **50** | 102 |
|  | 270-MS-03-066 | 4.6 | 0.14 | 0.305 | 0.008 | 0.2 | 1747 | 25 | 1766 | **1846** | **57** | 96 |
|  | 272-MS-03-068 | 5.03 | 0.11 | 0.3274 | 0.005 | 0.4 | 1824 | 19 | 1825 | **1853** | **37** | 98 |
|  | 275-MS-03-071 | 4.78 | 0.11 | 0.3156 | 0.006 | 0.5 | 1779 | 19 | 1767 | **1784** | **34** | 99 |
|  | 287-MS-03-077 | 11.9 | 0.26 | 0.467 | 0.01 | 0.5 | 2601 | 20 | 2477 | **2685** | **32** | 92 |
|  | 290-MS-03-080 | 5.16 | 0.24 | 0.326 | 0.013 | 0.8 | 1851 | 37 | 1819 | **1889** | **57** | 96 |
|  | 312-MS-03-096 | 5.19 | 0.18 | 0.335 | 0.011 | 0.6 | 1849 | 30 | 1861 | **1835** | **60** | 101 |
|  | 314-MS-03-098 | 5.37 | 0.12 | 0.3348 | 0.005 | 0.4 | 1879 | 19 | 1861 | **1914** | **34** | 97 |
|  | 321-MS-03-105 | 5.13 | 0.16 | 0.3147 | 0.006 | 0.4 | 1838 | 26 | 1763 | **1901** | **47** | 93 |
|  | 330-MS-03-108 | 4.61 | 0.14 | 0.2971 | 0.009 | 0.4 | 1749 | 26 | 1676 | **1797** | **66** | 93 |
|  | 334-MS-03-112 | 4.93 | 0.1 | 0.324 | 0.005 | 0.3 | 1804 | 18 | 1808 | **1813** | **41** | 100 |
|  | 335-MS-03-113 | 6.32 | 0.16 | 0.3727 | 0.007 | 0.3 | 2021 | 21 | 2044 | **2029** | **43** | 101 |
|  | 349-MS-03-121 | 5.21 | 0.15 | 0.3415 | 0.008 | 0.6 | 1853 | 26 | 1892 | **1830** | **45** | 103 |
|  | 350-MS-03-122 | 5.07 | 0.15 | 0.3359 | 0.005 | 0.3 | 1833 | 23 | 1866 | **1808** | **53** | 103 |
|  | 353-MS-03-125 | 7.64 | 0.15 | 0.3934 | 0.006 | 0.5 | 2195 | 16 | 2138 | **2221** | **28** | 96 |
|  | 355-MS-03-127 | 5.15 | 0.11 | 0.3349 | 0.006 | 0.4 | 1840 | 18 | 1861 | **1828** | **40** | 102 |
|  | 356-MS-03-128 | 4.89 | 0.19 | 0.3056 | 0.009 | 0.5 | 1795 | 32 | 1718 | **1850** | **67** | 93 |
|  | 362-MS-03-134 | 5.3 | 0.13 | 0.3406 | 0.006 | 0.5 | 1869 | 21 | 1888 | **1856** | **38** | 102 |
|  | 369-MS-03-135 | 5.17 | 0.13 | 0.3346 | 0.006 | 0.3 | 1850 | 23 | 1860 | **1833** | **49** | 101 |
|  | 371-MS-03-137 | 5.05 | 0.12 | 0.3351 | 0.007 | 0.7 | 1825 | 20 | 1862 | **1786** | **40** | 104 |
|  | 372-MS-03-138 | 4.8 | 0.1 | 0.3194 | 0.006 | 0.5 | 1787 | 19 | 1785 | **1791** | **36** | 100 |
|  | 373-MS-03-139 | 4.88 | 0.17 | 0.328 | 0.012 | 0.8 | 1794 | 30 | 1825 | **1775** | **48** | 103 |
|  | 374-MS-03-140 | 4.8 | 0.16 | 0.3137 | 0.009 | 0.6 | 1788 | 25 | 1757 | **1810** | **52** | 97 |
|  | 382-MS-03-148 | 4.67 | 0.12 | 0.2994 | 0.005 | 0.5 | 1757 | 22 | 1687 | **1838** | **40** | 92 |
|  | 184-MS-03-004 | 4.56 | 0.17 | 0.3013 | 0.007 | 0.3 | 1739 | 31 | 1697 | **1861** | **71** | 91 |
|  | 213-MS-03-027 | 4.33 | 0.16 | 0.303 | 0.007 | 0.4 | 1694 | 31 | 1706 | **1858** | **62** | 92 |
|  | 246-MS-03-048 | 4.111 | 0.092 | 0.2969 | 0.005 | 0.4 | 1654 | 18 | 1675 | **1770** | **44** | 95 |
|  | 271-MS-03-067 | 4.17 | 0.13 | 0.2947 | 0.009 | 0.4 | 1666 | 25 | 1694 | **1853** | **67** | 91 |
|  | 274-MS-03-070 | 4.186 | 0.092 | 0.2946 | 0.005 | 0.4 | 1673 | 18 | 1663 | **1806** | **36** | 92 |
|  | 294-MS-03-084 | 3.951 | 0.071 | 0.2849 | 0.005 | 0.4 | 1625 | 14 | 1644 | **1790** | **40** | 92 |
|  | 300-MS-03-090 | 4.22 | 0.13 | 0.2954 | 0.008 | 0.6 | 1674 | 25 | 1677 | **1835** | **51** | 91 |
|  | 310-MS-03-094 | 4.33 | 0.12 | 0.2928 | 0.007 | 0.7 | 1703 | 24 | 1715 | **1880** | **36** | 91 |
|  | 370-MS-03-136 | 4.37 | 0.18 | 0.3075 | 0.007 | 0.5 | 1702 | 33 | 1728 | **1834** | **58** | 94 |
|  | 352-MS-03-124 | 4.56 | 0.15 | 0.3047 | 0.009 | 0.7 | 1742 | 26 | 1814 | **1909** | **42** | 95 |
|  | 361-MS-03-133 | 4.69 | 0.18 | 0.303 | 0.011 | 0.7 | 1763 | 32 | 1805 | **1986** | **55** | 91 |
|  | 381-MS-03-147 | 4.39 | 0.12 | 0.3002 | 0.008 | 0.5 | 1713 | 21 | 1691 | **1835** | **44** | 92 |
|  | *Rejected analysis* | | | | | | | | | | |  |
|  | *206-MS-03-020* | *6.48* | *0.22* | *0.3475* | *0.008* | *0.5* | *2039* | *31* | *1922* | *2174* | *55* | 88 |
|  | *214-MS-03-028* | *9.53* | *0.45* | *0.415* | *0.017* | *0.5* | *2386* | *42* | *2235* | *2531* | *75* | 88 |
|  | *291-MS-03-081* | *8.16* | *0.23* | *0.383* | *0.012* | *0.3* | *2247* | *25* | *2088* | *2392* | *60* | 87 |
|  | *181-MS-03-001* | *2.138* | *0.06* | *0.1194* | *0.004* | *0.9* | *1159* | *20* | *727* | *2082* | *30* | 35 |
|  | *182-MS-03-002* | *3.8* | *0.15* | *0.246* | *0.011* | *0.8* | *1597* | *30* | *1414* | *1820* | *36* | 78 |
|  | *183-MS-03-003* | *1.359* | *0.04* | *0.081* | *0.003* | *0.7* | *870* | *16* | *502* | *2031* | *44* | 25 |
|  | *185-MS-03-005* | *2.382* | *0.06* | *0.1414* | *0.003* | *0.7* | *1241* | *20* | *852* | *2016* | *31* | 42 |
|  | *186-MS-03-006* | *3.145* | *0.1* | *0.1754* | *0.004* | *0.3* | *1442* | *24* | *1041* | *2085* | *56* | 50 |
|  | *188-MS-03-008* | *3.337* | *0.07* | *0.1868* | *0.003* | *0.5* | *1488* | *15* | *1104* | *2088* | *33* | 53 |
|  | *190-MS-03-010* | *3.53* | *0.17* | *0.2142* | *0.01* | *0.8* | *1530* | *37* | *1250* | *1928* | *50* | 65 |
|  | *191-MS-03-011* | *2.186* | *0.1* | *0.1254* | *0.005* | *0.9* | *1172* | *32* | *761* | *2017* | *39* | 38 |
|  | *193-MS-03-013* | *3.829* | *0.08* | *0.2055* | *0.004* | *0.4* | *1601* | *16* | *1205* | *2179* | *35* | 55 |
|  | *194-MS-03-014* | *1.079* | *0.02* | *0.0527* | *0.001* | *0.6* | *743* | *12* | *331* | *2331* | *29* | 14 |
|  | *202-MS-03-016* | *3.94* | *0.24* | *0.233* | *0.012* | *0.4* | *1616* | *49* | *1348* | *1990* | *120* | 68 |
|  | *203-MS-03-017* | *1.541* | *0.03* | *0.0887* | *0.002* | *0.7* | *947* | *12* | *548* | *2041* | *28* | 27 |
|  | *204-MS-03-018* | *1.271* | *0.04* | *0.0751* | *0.003* | *0.7* | *832* | *17* | *470* | *2016* | *41* | 23 |
|  | *205-MS-03-019* | *2.509* | *0.09* | *0.1491* | *0.005* | *0.8* | *1272* | *26* | *895* | *1981* | *42* | 45 |
|  | *207-MS-03-021* | *1.347* | *0.05* | *0.0727* | *0.003* | *0.8* | *867* | *21* | *452* | *2131* | *39* | 21 |
|  | *208-MS-03-022* | *4.22* | *0.17* | *0.257* | *0.011* | *0.7* | *1681* | *31* | *1475* | *1934* | *48* | 76 |
|  | *210-MS-03-024* | *2.136* | *0.08* | *0.1223* | *0.004* | *0.7* | *1157* | *25* | *743* | *2014* | *39* | 37 |
|  | *211-MS-03-025* | *2.545* | *0.07* | *0.1456* | *0.005* | *0.7* | *1290* | *23* | *876* | *2075* | *52* | 42 |
|  | *212-MS-03-026* | *2.946* | *0.08* | *0.1663* | *0.006* | *0.6* | *1392* | *20* | *991* | *2053* | *47* | 48 |
|  | *215-MS-03-029* | *4.13* | *0.12* | *0.26* | *0.008* | *0.5* | *1657* | *23* | *1489* | *1901* | *52* | 78 |
|  | *216-MS-03-030* | *4.13* | *0.14* | *0.2613* | *0.009* | *0.5* | *1664* | *28* | *1496* | *1889* | *60* | 79 |
|  | *223-MS-03-031* | *5.108* | *0.09* | *0.2904* | *0.005* | *0.5* | *1842* | *15* | *1643* | *2064* | *31* | 80 |
|  | *224-MS-03-032* | *5.96* | *0.4* | *0.316* | *0.018* | *0.8* | *1980* | *50* | *1769* | *2244* | *56* | 79 |
|  | *225-MS-03-033* | *3.41* | *0.1* | *0.2132* | *0.005* | *0.6* | *1510* | *25* | *1245* | *1921* | *44* | 65 |
|  | *226-MS-03-034* | *3.79* | *0.27* | *0.189* | *0.012* | *0.9* | *1584* | *56* | *1116* | *2316* | *56* | 48 |
|  | *227-MS-03-035* | *3.94* | *0.11* | *0.2279* | *0.006* | *0.7* | *1620* | *22* | *1323* | *2061* | *41* | 64 |
|  | *228-MS-03-036* | *1.632* | *0.05* | *0.0911* | *0.003* | *0.8* | *984* | *17* | *561* | *2127* | *38* | 26 |
|  | *229-MS-03-037* | *1.669* | *0.08* | *0.0944* | *0.006* | *0.5* | *995* | *32* | *581* | *2023* | *87* | 29 |
|  | *230-MS-03-038* | *5.06* | *0.24* | *0.267* | *0.011* | *0.4* | *1830* | *38* | *1523* | *2217* | *77* | 69 |
|  | *231-MS-03-039* | *1.879* | *0.08* | *0.1021* | *0.004* | *0.8* | *1071* | *29* | *626* | *2175* | *43* | 29 |
|  | *232-MS-03-040* | *2.56* | *0.05* | *0.144* | *0.003* | *0.6* | *1290* | *13* | *867* | *2103* | *36* | 41 |
|  | *233-MS-03-041* | *0.969* | *0.04* | *0.0477* | *0.002* | *0.9* | *690* | *20* | *300* | *2320* | *38* | 13 |
|  | *235-MS-03-043* | *1.164* | *0.05* | *0.0628* | *0.003* | *0.9* | *787* | *25* | *392* | *2198* | *43* | 18 |
|  | *236-MS-03-044* | *3.453* | *0.08* | *0.2071* | *0.006* | *0.1* | *1516* | *19* | *1213* | *1971* | *55* | 62 |
|  | *244-MS-03-046* | *1.578* | *0.04* | *0.0929* | *0.003* | *0.7* | *960* | *16* | *572* | *2012* | *39* | 28 |
|  | *245-MS-03-047* | *2.557* | *0.07* | *0.1508* | *0.004* | *0.7* | *1286* | *20* | *905* | *2018* | *36* | 45 |
|  | *247-MS-03-049* | *1.27* | *0.06* | *0.074* | *0.004* | *0.9* | *837* | *27* | *464* | *2009* | *34* | 23 |
|  | *248-MS-03-050* | *1.276* | *0.03* | *0.0672* | *0.002* | *0.8* | *834* | *12* | *419* | *2182* | *32* | 19 |
|  | *250-MS-03-052* | *1.916* | *0.05* | *0.1063* | *0.003* | *0.8* | *1086* | *18* | *651* | *2104* | *33* | 31 |
|  | *252-MS-03-054* | *3.27* | *0.24* | *0.196* | *0.013* | *0.9* | *1464* | *59* | *1151* | *1993* | *67* | 58 |
|  | *256-MS-03-058* | *2.438* | *0.08* | *0.1361* | *0.005* | *0.8* | *1252* | *24* | *822* | *2084* | *38* | 39 |
|  | *257-MS-03-059* | *6.55* | *0.18* | *0.3319* | *0.008* | *0.7* | *2050* | *24* | *1855* | *2239* | *42* | 83 |
|  | *265-MS-03-061* | *2.83* | *0.11* | *0.1653* | *0.006* | *0.8* | *1363* | *30* | *985* | *2017* | *52* | 49 |
|  | *268-MS-03-064* | *3.09* | *0.13* | *0.204* | *0.01* | *0.8* | *1433* | *31* | *1196* | *1875* | *54* | 64 |
|  | *269-MS-03-065* | *3.12* | *0.18* | *0.1855* | *0.008* | *0.5* | *1433* | *46* | *1096* | *1981* | *87* | 55 |
|  | *273-MS-03-069* | *2.84* | *0.11* | *0.1475* | *0.005* | *0.8* | *1363* | *29* | *886* | *2210* | *37* | 40 |
|  | *276-MS-03-072* | *3.425* | *0.09* | *0.213* | *0.006* | *0.7* | *1511* | *20* | *1244* | *1918* | *33* | 65 |
|  | *277-MS-03-073* | *3.93* | *0.12* | *0.2559* | *0.006* | *0.5* | *1622* | *27* | *1468* | *1841* | *62* | 80 |
|  | *278-MS-03-074* | *4.77* | *0.12* | *0.2755* | *0.007* | *0.8* | *1781* | *21* | *1567* | *2041* | *26* | 77 |
|  | *279-MS-03-075* | *4.32* | *0.21* | *0.216* | *0.01* | *0.9* | *1692* | *41* | *1262* | *2291* | *51* | 55 |
|  | *286-MS-03-076* | *3.27* | *0.14* | *0.2071* | *0.009* | *0.9* | *1470* | *32* | *1222* | *1878* | *36* | 65 |
|  | *288-MS-03-078* | *3.51* | *0.2* | *0.22* | *0.014* | *0.8* | *1523* | *45* | *1282* | *1900* | *59* | 67 |
|  | *289-MS-03-079* | *2.538* | *0.06* | *0.1393* | *0.003* | *0.7* | *1285* | *17* | *840* | *2119* | *30* | 40 |
|  | *292-MS-03-082* | *1.674* | *0.06* | *0.0975* | *0.003* | *0.8* | *1000* | *23* | *599* | *2021* | *42* | 30 |
|  | *293-MS-03-083* | *11.57* | *0.34* | *0.409* | *0.014* | *0.9* | *2570* | *29* | *2220* | *2885* | *21* | 77 |
|  | *295-MS-03-085* | *5.87* | *0.37* | *0.314* | *0.011* | *0.6* | *1944* | *54* | *1758* | *2144* | *86* | 82 |
|  | *296-MS-03-086* | *1.639* | *0.06* | *0.0861* | *0.003* | *0.9* | *982* | *24* | *532* | *2257* | *38* | 24 |
|  | *297-MS-03-087* | *2.779* | *0.06* | *0.1764* | *0.003* | *0.4* | *1347* | *15* | *1047* | *1853* | *34* | 57 |
|  | *298-MS-03-088* | *2.602* | *0.05* | *0.1612* | *0.004* | *0.8* | *1299* | *13* | *963* | *1922* | *24* | 50 |
|  | *299-MS-03-089* | *2.49* | *0.15* | *0.1434* | *0.009* | *0.9* | *1252* | *42* | *866* | *2041* | *38* | 42 |
|  | *307-MS-03-091* | *3.89* | *0.14* | *0.2423* | *0.01* | *0.6* | *1609* | *28* | *1398* | *1927* | *54* | 73 |
|  | *308-MS-03-092* | *2.364* | *0.09* | *0.1273* | *0.004* | *0.9* | *1228* | *27* | *772* | *2107* | *30* | 37 |
|  | *309-MS-03-093* | *3.79* | *0.13* | *0.2296* | *0.007* | *0.7* | *1594* | *26* | *1331* | *1972* | *39* | 67 |
|  | *311-MS-03-095* | *3.057* | *0.07* | *0.1568* | *0.004* | *0.7* | *1424* | *17* | *939* | *2246* | *29* | 42 |
|  | *313-MS-03-097* | *4.145* | *0.1* | *0.2634* | *0.007* | *0.5* | *1661* | *20* | *1506* | *1853* | *52* | 81 |
|  | *315-MS-03-099* | *3.13* | *0.18* | *0.1865* | *0.009* | *0.8* | *1435* | *45* | *1101* | *1994* | *79* | 55 |
|  | *316-MS-03-100* | *1.531* | *0.04* | *0.0868* | *0.002* | *0.7* | *944* | *18* | *536* | *2062* | *35* | 26 |
|  | *317-MS-03-101* | *3.53* | *0.16* | *0.221* | *0.011* | *0.6* | *1531* | *35* | *1285* | *1931* | *84* | 67 |
|  | *318-MS-03-102* | *3.59* | *0.15* | *0.2151* | *0.009* | *0.7* | *1544* | *33* | *1254* | *1976* | *62* | 63 |
|  | *319-MS-03-103* | *1.376* | *0.05* | *0.073* | *0.003* | *0.9* | *876* | *19* | *454* | *2224* | *36* | 20 |
|  | *320-MS-03-104* | *2.83* | *0.09* | *0.1601* | *0.006* | *0.4* | *1362* | *25* | *957* | *2070* | *80* | 46 |
|  | *328-MS-03-106* | *1.627* | *0.09* | *0.101* | *0.006* | *0.9* | *976* | *34* | *620* | *1932* | *54* | 32 |
|  | *329-MS-03-107* | *3.56* | *0.2* | *0.229* | *0.012* | *0.4* | *1536* | *46* | *1330* | *1878* | *93* | 71 |
|  | *331-MS-03-109* | *2.305* | *0.05* | *0.136* | *0.004* | *0.7* | *1212* | *14* | *821* | *2020* | *32* | 41 |
|  | *332-MS-03-110* | *1.718* | *0.04* | *0.0876* | *0.003* | *0.8* | *1014* | *15* | *541* | *2242* | *34* | 24 |
|  | *333-MS-03-111* | *3.334* | *0.1* | *0.2054* | *0.006* | *0.6* | *1486* | *22* | *1207* | *1940* | *41* | 62 |
|  | *336-MS-03-114* | *2.967* | *0.06* | *0.1783* | *0.004* | *0.5* | *1398* | *14* | *1057* | *1980* | *46* | 53 |
|  | *337-MS-03-115* | *1.937* | *0.04* | *0.1145* | *0.003* | *0.7* | *1096* | *14* | *700* | *2012* | *30* | 35 |
|  | *338-MS-03-116* | *2.78* | *0.1* | *0.1524* | *0.006* | *0.8* | *1347* | *27* | *913* | *2120* | *42* | 43 |
|  | *339-MS-03-117* | *2.342* | *0.09* | *0.1373* | *0.005* | *0.9* | *1221* | *26* | *828* | *2011* | *26* | 41 |
|  | *340-MS-03-118* | *2.624* | *0.08* | *0.1383* | *0.007* | *0.8* | *1306* | *21* | *842* | *2183* | *46* | 39 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| **MS-05** | 393-MS-05-003 | 3.7 | 0.28 | 0.265 | 0.02 | 0.8 | 1566 | 60 | 1660 | **1760** | **74** | 94 |
|  | 398-MS-05-008 | 3.9 | 0.16 | 0.269 | 0.009 | 0.8 | 1610 | 33 | 1683 | **1799** | **50** | 94 |
|  | 400-MS-05-010 | 4.92 | 0.1 | 0.3192 | 0.006 | 0.4 | 1807 | 17 | 1784 | **1827** | **38** | 98 |
|  | 401-MS-05-011 | 5.28 | 0.14 | 0.3312 | 0.007 | 0.3 | 1870 | 23 | 1842 | **1921** | **44** | 96 |
|  | 402-MS-05-012 | 6.39 | 0.14 | 0.3599 | 0.007 | 0.6 | 2031 | 19 | 1980 | **2065** | **33** | 96 |
|  | 413-MS-05-017 | 4.95 | 0.16 | 0.311 | 0.01 | 0.7 | 1808 | 28 | 1744 | **1893** | **47** | 92 |
|  | 415-MS-05-019 | 5.03 | 0.12 | 0.3167 | 0.006 | 0.5 | 1824 | 21 | 1807 | **1978** | **44** | 91 |
|  | 416-MS-05-020 | 4.68 | 0.11 | 0.3102 | 0.006 | 0.5 | 1759 | 21 | 1740 | **1784** | **39** | 98 |
|  | 419-MS-05-023 | 4.62 | 0.1 | 0.3063 | 0.006 | 0.4 | 1751 | 19 | 1721 | **1770** | **40** | 97 |
|  | 422-MS-05-026 | 3.44 | 0.15 | 0.2509 | 0.006 | 0.6 | 1508 | 34 | 1591 | **1716** | **68** | 93 |
|  | 423-MS-05-027 | 4.5 | 0.19 | 0.3003 | 0.008 | 0.7 | 1725 | 35 | 1689 | **1843** | **48** | 92 |
|  | 436-MS-05-034 | 4.44 | 0.13 | 0.2944 | 0.006 | 0.4 | 1721 | 24 | 1666 | **1800** | **49** | 93 |
|  | 441-MS-05-039 | 4.88 | 0.11 | 0.3223 | 0.007 | 0.6 | 1802 | 18 | 1799 | **1799** | **33** | 100 |
|  | 442-MS-05-040 | 4.88 | 0.11 | 0.3219 | 0.006 | 0.5 | 1800 | 19 | 1798 | **1807** | **40** | 100 |
|  | 443-MS-05-041 | 4.567 | 0.094 | 0.3112 | 0.006 | 0.6 | 1747 | 17 | 1745 | **1745** | **33** | 100 |
|  | 446-MS-05-044 | 5.32 | 0.1 | 0.3188 | 0.006 | 0.7 | 1872 | 15 | 1783 | **1967** | **28** | 91 |
|  | 455-MS-05-047 | 4.08 | 0.13 | 0.2807 | 0.008 | 0.7 | 1651 | 28 | 1643 | **1803** | **51** | 91 |
|  | 460-MS-05-052 | 4.71 | 0.11 | 0.3107 | 0.005 | 0.4 | 1767 | 19 | 1743 | **1797** | **43** | 97 |
|  | 465-MS-05-057 | 4.366 | 0.088 | 0.2938 | 0.007 | 0.7 | 1713 | 17 | 1659 | **1784** | **35** | 93 |
|  | 478-MS-05-064 | 7.82 | 0.39 | 0.395 | 0.016 | 0.9 | 2233 | 45 | 2145 | **2282** | **31** | 94 |
|  | 483-MS-05-069 | 4.94 | 0.15 | 0.3155 | 0.01 | 0.6 | 1808 | 25 | 1768 | **1927** | **56** | 92 |
|  | 486-MS-05-072 | 4 | 0.12 | 0.2714 | 0.007 | 0.7 | 1633 | 23 | 1665 | **1788** | **38** | 93 |
|  | 488-MS-05-074 | 4.59 | 0.18 | 0.3003 | 0.008 | 0.5 | 1748 | 34 | 1692 | **1808** | **69** | 94 |
|  | 498-MS-05-078 | 5.59 | 0.11 | 0.34 | 0.006 | 0.6 | 1915 | 17 | 1886 | **1917** | **25** | 98 |
|  | 501-MS-05-081 | 4.66 | 0.12 | 0.314 | 0.006 | 0.6 | 1766 | 21 | 1759 | **1760** | **35** | 100 |
|  | 504-MS-05-084 | 4.704 | 0.098 | 0.3158 | 0.007 | 0.7 | 1765 | 17 | 1768 | **1741** | **31** | 102 |
|  | 506-MS-05-086 | 4.65 | 0.16 | 0.307 | 0.011 | 0.6 | 1761 | 30 | 1697 | **1872** | **65** | 91 |
|  | 507-MS-05-087 | 4.69 | 0.1 | 0.3171 | 0.007 | 0.6 | 1763 | 18 | 1782 | **1763** | **33** | 101 |
|  | 509-MS-05-089 | 4.18 | 0.16 | 0.2819 | 0.009 | 0.8 | 1666 | 31 | 1658 | **1807** | **37** | 92 |
|  | 521-MS-05-095 | 4.79 | 0.11 | 0.3108 | 0.006 | 0.4 | 1786 | 18 | 1744 | **1838** | **38** | 95 |
|  | 522-MS-05-096 | 4.69 | 0.12 | 0.3076 | 0.006 | 0.4 | 1765 | 21 | 1728 | **1788** | **40** | 97 |
|  | 523-MS-05-097 | 4.76 | 0.1 | 0.3158 | 0.005 | 0.5 | 1779 | 18 | 1772 | **1764** | **34** | 100 |
|  | 525-MS-05-099 | 5.3 | 0.17 | 0.3323 | 0.007 | 0.5 | 1866 | 29 | 1848 | **1843** | **61** | 100 |
|  | 527-MS-05-101 | 4.273 | 0.08 | 0.3001 | 0.005 | 0.5 | 1688 | 16 | 1641 | **1795** | **35** | 91 |
|  | 531-MS-05-105 | 4.06 | 0.17 | 0.28 | 0.01 | 0.8 | 1643 | 34 | 1590 | **1738** | **60** | 91 |
|  | 540-MS-05-108 | 4.38 | 0.13 | 0.2976 | 0.008 | 0.7 | 1710 | 25 | 1668 | **1808** | **41** | 92 |
|  | 541-MS-05-109 | 3.64 | 0.18 | 0.264 | 0.011 | 0.6 | 1553 | 39 | 1579 | **1732** | **72** | 91 |
|  | 543-MS-05-111 | 4.89 | 0.12 | 0.3254 | 0.006 | 0.5 | 1804 | 20 | 1815 | **1793** | **41** | 101 |
|  | 544-MS-05-112 | 5.18 | 0.11 | 0.3233 | 0.006 | 0.4 | 1849 | 18 | 1805 | **1890** | **39** | 96 |
|  | 547-MS-05-115 | 7.03 | 0.12 | 0.3874 | 0.007 | 0.6 | 2115 | 15 | 2114 | **2105** | **28** | 100 |
|  | 552-MS-05-120 | 4.16 | 0.11 | 0.2883 | 0.007 | 0.7 | 1668 | 22 | 1632 | **1796** | **41** | 91 |
|  | 560-MS-05-122 | 4.829 | 0.093 | 0.3182 | 0.004 | 0.3 | 1790 | 17 | 1783 | **1798** | **35** | 99 |
|  | 563-MS-05-125 | 4.203 | 0.092 | 0.2843 | 0.006 | 0.6 | 1676 | 19 | 1672 | **1817** | **31** | 92 |
|  | 568-MS-05-130 | 4.53 | 0.12 | 0.2938 | 0.006 | 0.4 | 1736 | 22 | 1659 | **1800** | **46** | 92 |
|  | 569-MS-05-131 | 4.38 | 0.12 | 0.3008 | 0.007 | 0.6 | 1706 | 22 | 1710 | **1835** | **46** | 93 |
|  | 580-MS-05-136 | 5.27 | 0.12 | 0.3267 | 0.005 | 0.4 | 1864 | 21 | 1822 | **1908** | **46** | 95 |
|  | 581-MS-05-137 | 3.5 | 0.13 | 0.2644 | 0.008 | 0.7 | 1526 | 29 | 1536 | **1647** | **61** | 93 |
|  | 582-MS-05-138 | 4.36 | 0.14 | 0.289 | 0.01 | 0.7 | 1702 | 27 | 1634 | **1787** | **47** | 91 |
|  | 586-MS-05-142 | 4.88 | 0.14 | 0.3146 | 0.006 | 0.2 | 1801 | 25 | 1766 | **1829** | **59** | 97 |
|  | 588-MS-05-145 | 4.76 | 0.17 | 0.305 | 0.01 | 0.6 | 1774 | 29 | 1716 | **1839** | **50** | 93 |
|  | 589-MS-05-146 | 4.63 | 0.13 | 0.3094 | 0.006 | 0.5 | 1754 | 24 | 1737 | **1757** | **47** | 99 |
|  | 590-MS-05-147 | 3.981 | 0.086 | 0.2887 | 0.005 | 0.1 | 1628 | 17 | 1593 | **1753** | **53** | 91 |
|  | 591-MS-05-148 | 5.31 | 0.11 | 0.3317 | 0.006 | 0.4 | 1868 | 18 | 1846 | **1896** | **37** | 97 |
|  | *Rejected analysis* | | | | | | | | | | |  |
|  | *395-MS-05-005* | *8.72* | *0.18* | *0.3947* | *0.008* | *0.7* | *2309* | *18* | *2143* | *2461* | *27* | 87 |
|  | *550-MS-05-118* | *6.77* | *0.25* | *0.355* | *0.013* | *0.6* | *2084* | *35* | *1957* | *2211* | *64* | 89 |
|  | *391-MS-05-001* | *3.623* | *0.07* | *0.2382* | *0.004* | *0.6* | *1554* | *16* | *1377* | *1808* | *33* | 76 |
|  | *394-MS-05-004* | *2.666* | *0.1* | *0.1732* | *0.005* | *0.6* | *1316* | *27* | *1029* | *1759* | *48* | 58 |
|  | *396-MS-05-006* | *4.7* | *0.15* | *0.2186* | *0.007* | *0.8* | *1763* | *27* | *1273* | *2427* | *32* | 52 |
|  | *397-MS-05-007* | *2.545* | *0.09* | *0.157* | *0.007* | *0.8* | *1288* | *24* | *940* | *1946* | *62* | 48 |
|  | *399-MS-05-009* | *2.61* | *0.15* | *0.1541* | *0.007* | *0.8* | *1298* | *42* | *923* | *1984* | *64* | 47 |
|  | *403-MS-05-013* | *2.318* | *0.04* | *0.1464* | *0.003* | *0.6* | *1223* | *12* | *880* | *1878* | *32* | 47 |
|  | *404-MS-05-014* | *3.21* | *0.1* | *0.1971* | *0.007* | *0.7* | *1462* | *26* | *1159* | *1923* | *48* | 60 |
|  | *405-MS-05-015* | *1.27* | *0.05* | *0.0842* | *0.005* | *0.9* | *835* | *23* | *521* | *1817* | *45* | 29 |
|  | *412-MS-05-016* | *3.247* | *0.08* | *0.2147* | *0.005* | *0.6* | *1469* | *19* | *1257* | *1825* | *32* | 69 |
|  | *414-MS-05-018* | *3.206* | *0.06* | *0.2145* | *0.003* | *0.6* | *1459* | *14* | *1252* | *1753* | *30* | 71 |
|  | *417-MS-05-021* | *1.951* | *0.05* | *0.1337* | *0.003* | *0.5* | *1100* | *17* | *808* | *1723* | *39* | 47 |
|  | *418-MS-05-022* | *2.217* | *0.06* | *0.1438* | *0.004* | *0.6* | *1184* | *19* | *866* | *1815* | *39* | 48 |
|  | *420-MS-05-024* | *2.34* | *0.11* | *0.1591* | *0.007* | *0.8* | *1221* | *34* | *960* | *1739* | *43* | 55 |
|  | *421-MS-05-025* | *2.89* | *0.09* | *0.1644* | *0.004* | *0.7* | *1381* | *23* | *981* | *2040* | *42* | 48 |
|  | *424-MS-05-028* | *2.164* | *0.07* | *0.1407* | *0.005* | *0.8* | *1166* | *24* | *848* | *1804* | *34* | 47 |
|  | *425-MS-05-029* | *2.233* | *0.07* | *0.1351* | *0.006* | *0.6* | *1190* | *23* | *816* | *1919* | *59* | 43 |
|  | *426-MS-05-030* | *2.156* | *0.07* | *0.1441* | *0.005* | *0.7* | *1164* | *23* | *867* | *1811* | *45* | 48 |
|  | *433-MS-05-031* | *3.583* | *0.07* | *0.2199* | *0.005* | *0.6* | *1546* | *16* | *1284* | *1914* | *31* | 67 |
|  | *434-MS-05-032* | *1.705* | *0.04* | *0.113* | *0.003* | *0.7* | *1008* | *16* | *690* | *1809* | *33* | 38 |
|  | *435-MS-05-033* | *2.285* | *0.05* | *0.1317* | *0.003* | *0.8* | *1207* | *17* | *799* | *2028* | *30* | 39 |
|  | *437-MS-05-035* | *2.144* | *0.07* | *0.0993* | *0.003* | *0.8* | *1168* | *22* | *613* | *2437* | *35* | 25 |
|  | *438-MS-05-036* | *2.43* | *0.11* | *0.1503* | *0.005* | *0.9* | *1258* | *32* | *902* | *1937* | *36* | 47 |
|  | *439-MS-05-037* | *2.17* | *0.13* | *0.1459* | *0.008* | *0.9* | *1164* | *42* | *885* | *1754* | *50* | 50 |
|  | *440-MS-05-038* | *3.703* | *0.09* | *0.2463* | *0.005* | *0.7* | *1568* | *20* | *1418* | *1776* | *28* | 80 |
|  | *444-MS-05-042* | *1.355* | *0.06* | *0.0788* | *0.004* | *0.9* | *865* | *27* | *488* | *2019* | *34* | 24 |
|  | *445-MS-05-043* | *1.57* | *0.03* | *0.1031* | *0.002* | *0.7* | *957* | *13* | *632* | *1780* | *28* | 36 |
|  | *447-MS-05-045* | *2.393* | *0.07* | *0.1354* | *0.004* | *0.8* | *1236* | *21* | *818* | *2073* | *29* | 39 |
|  | *454-MS-05-046* | *0.767* | *0.02* | *0.0477* | *0.001* | *0.8* | *578* | *12* | *300* | *1902* | *36* | 16 |
|  | *456-MS-05-048* | *1.431* | *0.03* | *0.0961* | *0.002* | *0.7* | *901* | *13* | *591* | *1763* | *30* | 34 |
|  | *457-MS-05-049* | *2.834* | *0.09* | *0.1637* | *0.005* | *0.8* | *1362* | *24* | *982* | *2030* | *41* | 48 |
|  | *458-MS-05-050* | *2.081* | *0.06* | *0.1381* | *0.005* | *0.8* | *1140* | *21* | *833* | *1778* | *38* | 47 |
|  | *459-MS-05-051* | *5.46* | *0.35* | *0.276* | *0.017* | *0.9* | *1894* | *59* | *1566* | *2298* | *45* | 68 |
|  | *461-MS-05-053* | *3.84* | *0.11* | *0.234* | *0.007* | *0.8* | *1599* | *24* | *1354* | *1923* | *38* | 70 |
|  | *462-MS-05-054* | *3.284* | *0.09* | *0.1627* | *0.005* | *0.8* | *1474* | *21* | *971* | *2310* | *27* | 42 |
|  | *463-MS-05-055* | *2.123* | *0.07* | *0.1467* | *0.004* | *0.8* | *1162* | *21* | *881* | *1705* | *35* | 52 |
|  | *466-MS-05-058* | *4.03* | *0.11* | *0.2471* | *0.006* | *0.8* | *1650* | *23* | *1422* | *1931* | *32* | 74 |
|  | *467-MS-05-059* | *3.76* | *0.13* | *0.2162* | *0.008* | *0.8* | *1580* | *27* | *1260* | *2062* | *40* | 61 |
|  | *468-MS-05-060* | *2.141* | *0.08* | *0.1425* | *0.005* | *0.9* | *1156* | *26* | *858* | *1791* | *32* | 48 |
|  | *475-MS-05-061* | *3.17* | *0.22* | *0.139* | *0.01* | *1.0* | *1452* | *52* | *837* | *2522* | *36* | 33 |
|  | *476-MS-05-062* | *1.643* | *0.04* | *0.1135* | *0.002* | *0.7* | *987* | *14* | *693* | *1721* | *31* | 40 |
|  | *477-MS-05-063* | *3.31* | *0.11* | *0.2191* | *0.007* | *0.6* | *1484* | *26* | *1276* | *1766* | *52* | 72 |
|  | *479-MS-05-065* | *1.694* | *0.07* | *0.1175* | *0.004* | *0.9* | *1000* | *25* | *715* | *1708* | *38* | 42 |
|  | *480-MS-05-066* | *2.381* | *0.06* | *0.1444* | *0.004* | *0.8* | *1234* | *18* | *872* | *1930* | *34* | 45 |
|  | *481-MS-05-067* | *2.99* | *0.07* | *0.1977* | *0.005* | *0.8* | *1404* | *19* | *1162* | *1803* | *33* | 64 |
|  | *482-MS-05-068* | *1.577* | *0.04* | *0.1045* | *0.004* | *0.7* | *960* | *16* | *643* | *1780* | *40* | 36 |
|  | *484-MS-05-070* | *3.37* | *0.12* | *0.164* | *0.007* | *0.9* | *1497* | *27* | *978* | *2346* | *32* | 42 |
|  | *485-MS-05-071* | *1.843* | *0.06* | *0.119* | *0.003* | *0.8* | *1062* | *22* | *724* | *1824* | *30* | 40 |
|  | *487-MS-05-073* | *2.63* | *0.09* | *0.1704* | *0.007* | *0.8* | *1312* | *27* | *1017* | *1836* | *36* | 55 |
|  | *489-MS-05-075* | *9.12* | *0.2* | *0.3912* | *0.008* | *0.7* | *2351* | *21* | *2127* | *2548* | *27* | 83 |
|  | *496-MS-05-076* | *2.469* | *0.07* | *0.1686* | *0.004* | *0.5* | *1260* | *20* | *1004* | *1732* | *48* | 58 |
|  | *497-MS-05-077* | *2.246* | *0.08* | *0.132* | *0.004* | *0.8* | *1191* | *26* | *799* | *2004* | *43* | 40 |
|  | *499-MS-05-079* | *3.96* | *0.13* | *0.2543* | *0.009* | *0.6* | *1625* | *26* | *1460* | *1860* | *57* | 78 |
|  | *502-MS-05-082* | *3.55* | *0.11* | *0.1738* | *0.006* | *0.8* | *1534* | *25* | *1032* | *2350* | *37* | 44 |
|  | *503-MS-05-083* | *2.062* | *0.08* | *0.1332* | *0.006* | *0.8* | *1133* | *26* | *806* | *1817* | *45* | 44 |
|  | *505-MS-05-085* | *4.48* | *0.2* | *0.2304* | *0.009* | *0.9* | *1731* | *35* | *1335* | *2220* | *35* | 60 |
|  | *508-MS-05-088* | *2.247* | *0.06* | *0.1467* | *0.004* | *0.8* | *1192* | *20* | *882* | *1824* | *29* | 48 |
|  | *510-MS-05-090* | *2.345* | *0.09* | *0.1438* | *0.006* | *0.8* | *1222* | *29* | *865* | *1924* | *43* | 45 |
|  | *517-MS-05-091* | *2.217* | *0.07* | *0.1418* | *0.006* | *0.7* | *1184* | *22* | *854* | *1850* | *50* | 46 |
|  | *518-MS-05-092* | *2.242* | *0.06* | *0.1343* | *0.004* | *0.8* | *1196* | *18* | *812* | *1974* | *31* | 41 |
|  | *519-MS-05-093* | *2.105* | *0.06* | *0.1387* | *0.003* | *0.6* | *1148* | *21* | *837* | *1793* | *48* | 47 |
|  | *520-MS-05-094* | *1.554* | *0.07* | *0.0925* | *0.004* | *0.8* | *948* | *27* | *570* | *2002* | *41* | 28 |
|  | *524-MS-05-098* | *2.092* | *0.04* | *0.1348* | *0.003* | *0.7* | *1144* | *14* | *815* | *1819* | *32* | 45 |
|  | *526-MS-05-100* | *1.98* | *0.11* | *0.1191* | *0.003* | *0.4* | *1112* | *36* | *725* | *1979* | *83* | 37 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| **MS-06** | 609-MS-06-008 | 7.46 | 0.14 | 0.3958 | 0.006 | 0.6 | 2168 | 17 | 2149 | **2176** | **28** | 99 |
|  | 613-MS-06-012 | 5.05 | 0.2 | 0.315 | 0.011 | 0.7 | 1825 | 34 | 1783 | **1947** | **52** | 92 |
|  | 616-MS-06-015 | 8.97 | 0.15 | 0.4269 | 0.008 | 0.5 | 2333 | 15 | 2290 | **2354** | **27** | 97 |
|  | 626-MS-06-019 | 4.87 | 0.17 | 0.3136 | 0.008 | 0.8 | 1799 | 30 | 1757 | **1826** | **49** | 96 |
|  | 627-MS-06-020 | 10.93 | 0.25 | 0.4755 | 0.008 | 0.5 | 2521 | 21 | 2506 | **2503** | **34** | 100 |
|  | 629-MS-06-022 | 4.86 | 0.11 | 0.3183 | 0.006 | 0.4 | 1798 | 19 | 1785 | **1817** | **39** | 98 |
|  | 633-MS-06-026 | 4.78 | 0.092 | 0.3133 | 0.006 | 0.5 | 1783 | 15 | 1759 | **1806** | **34** | 97 |
|  | 634-MS-06-027 | 5.55 | 0.21 | 0.333 | 0.012 | 0.3 | 1910 | 35 | 1862 | **1952** | **80** | 95 |
|  | 635-MS-06-028 | 5.45 | 0.16 | 0.3352 | 0.007 | 0.2 | 1890 | 24 | 1862 | **1937** | **60** | 96 |
|  | 636-MS-06-029 | 4.65 | 0.2 | 0.301 | 0.011 | 0.8 | 1753 | 38 | 1696 | **1822** | **56** | 93 |
|  | 672-MS-06-053 | 4.79 | 0.12 | 0.303 | 0.008 | 0.7 | 1781 | 22 | 1712 | **1823** | **47** | 94 |
|  | 674-MS-06-055 | 4.424 | 0.099 | 0.2979 | 0.006 | 0.4 | 1714 | 19 | 1730 | **1830** | **39** | 95 |
|  | 677-MS-06-058 | 4.96 | 0.14 | 0.3257 | 0.008 | 0.7 | 1808 | 24 | 1816 | **1772** | **41** | 102 |
|  | 688-MS-06-063 | 6.57 | 0.2 | 0.3748 | 0.009 | 0.6 | 2056 | 26 | 2050 | **2064** | **41** | 99 |
|  | 691-MS-06-066 | 5 | 0.14 | 0.3258 | 0.005 | 0.2 | 1817 | 24 | 1820 | **1803** | **51** | 101 |
|  | 696-MS-06-071 | 4.58 | 0.11 | 0.3028 | 0.007 | 0.5 | 1742 | 20 | 1704 | **1802** | **36** | 95 |
|  | 700-MS-06-075 | 7.69 | 0.2 | 0.406 | 0.01 | 0.8 | 2190 | 23 | 2192 | **2168** | **29** | 101 |
|  | 769-MS-06-078 | 4.39 | 0.16 | 0.2903 | 0.009 | 0.8 | 1709 | 31 | 1721 | **1886** | **42** | 91 |
|  | 770-MS-06-079 | 4.67 | 0.16 | 0.305 | 0.01 | 0.6 | 1761 | 28 | 1713 | **1832** | **45** | 94 |
|  | 772-MS-06-081 | 4.59 | 0.12 | 0.3114 | 0.006 | 0.5 | 1749 | 22 | 1746 | **1728** | **47** | 101 |
|  | 777-MS-06-086 | 4.87 | 0.16 | 0.3179 | 0.008 | 0.4 | 1799 | 27 | 1777 | **1805** | **56** | 98 |
|  | 780-MS-06-089 | 4.31 | 0.1 | 0.2866 | 0.007 | 0.6 | 1693 | 19 | 1630 | **1749** | **44** | 93 |
|  | 789-MS-06-091 | 6.13 | 0.18 | 0.3646 | 0.008 | 0.4 | 1991 | 27 | 2002 | **1975** | **55** | 101 |
|  | 806-MS-06-108 | 4.704 | 0.089 | 0.3213 | 0.007 | 0.5 | 1768 | 16 | 1795 | **1711** | **37** | 105 |
|  | 821-MS-06-116 | 5.04 | 0.13 | 0.3306 | 0.006 | 0.5 | 1824 | 21 | 1840 | **1804** | **42** | 102 |
|  | 822-MS-06-117 | 5.22 | 0.14 | 0.3342 | 0.008 | 0.4 | 1854 | 23 | 1862 | **1810** | **50** | 103 |
|  | 825-MS-06-120 | 4.1 | 0.13 | 0.2943 | 0.008 | 0.4 | 1659 | 23 | 1662 | **1628** | **53** | 102 |
|  | 840-MS-06-128 | 5.15 | 0.2 | 0.3237 | 0.007 | 0.6 | 1835 | 32 | 1807 | **1850** | **53** | 98 |
|  | 842-MS-06-130 | 4.95 | 0.15 | 0.3127 | 0.008 | 0.5 | 1808 | 25 | 1756 | **1879** | **49** | 93 |
|  | 844-MS-06-132 | 4.21 | 0.17 | 0.2878 | 0.009 | 0.3 | 1673 | 33 | 1729 | **1893** | **77** | 91 |
|  | 847-MS-06-135 | 7.77 | 0.2 | 0.4051 | 0.01 | 0.6 | 2199 | 23 | 2190 | **2205** | **46** | 99 |
|  | 850-MS-06-138 | 4.77 | 0.13 | 0.305 | 0.009 | 0.4 | 1776 | 22 | 1734 | **1832** | **53** | 95 |
|  | 851-MS-06-139 | 5.29 | 0.12 | 0.3328 | 0.008 | 0.5 | 1863 | 19 | 1850 | **1851** | **40** | 100 |
|  | 852-MS-06-140 | 4.09 | 0.15 | 0.2785 | 0.008 | 0.6 | 1657 | 32 | 1682 | **1843** | **64** | 91 |
|  | 860-MS-06-141 | 10.85 | 0.26 | 0.4766 | 0.009 | 0.5 | 2508 | 23 | 2515 | **2517** | **36** | 100 |
|  | 862-MS-06-143 | 4.12 | 0.11 | 0.275 | 0.006 | 0.5 | 1658 | 21 | 1729 | **1830** | **43** | 94 |
|  | 865-MS-06-146 | 4.89 | 0.18 | 0.322 | 0.01 | 0.7 | 1806 | 34 | 1796 | **1852** | **63** | 97 |
|  | 867-MS-06-148 | 5 | 0.16 | 0.326 | 0.011 | 0.8 | 1813 | 27 | 1816 | **1810** | **39** | 100 |
|  | 868-MS-06-149 | 5.5 | 0.17 | 0.3396 | 0.008 | 0.6 | 1897 | 27 | 1882 | **1895** | **48** | 99 |
|  | 869-MS-06-150 | 3.76 | 0.18 | 0.267 | 0.011 | 0.8 | 1588 | 39 | 1671 | **1786** | **76** | 94 |
|  | 871-MS-06-152 | 7.5 | 0.41 | 0.397 | 0.023 | 0.6 | 2169 | 48 | 2150 | **2190** | **100** | 98 |
|  | *Rejected analysis* | | | | | | | | | | |  |
|  | *602-MS-06-001* | *1.785* | *0.05* | *0.1154* | *0.003* | *0.5* | *1042* | *19* | *704* | *1806* | *55* | 39 |
|  | *603-MS-06-002* | *3.734* | *0.09* | *0.1872* | *0.004* | *0.3* | *1577* | *19* | *1106* | *2299* | *47* | 48 |
|  | *604-MS-06-003* | *5.36* | *0.26* | *0.2357* | *0.01* | *0.9* | *1875* | *43* | *1363* | *2485* | *50* | 55 |
|  | *605-MS-06-004* | *2.207* | *0.07* | *0.1277* | *0.004* | *0.7* | *1182* | *23* | *774* | *1987* | *44* | 39 |
|  | *606-MS-06-005* | *5.04* | *0.13* | *0.2874* | *0.006* | *0.6* | *1831* | *24* | *1636* | *2027* | *34* | 81 |
|  | *607-MS-06-006* | *1.773* | *0.06* | *0.1077* | *0.004* | *0.7* | *1039* | *23* | *659* | *1958* | *62* | 34 |
|  | *608-MS-06-007* | *8.53* | *0.2* | *0.3797* | *0.007* | *0.3* | *2287* | *21* | *2074* | *2442* | *40* | 85 |
|  | *610-MS-06-009* | *3.89* | *0.19* | *0.2466* | *0.01* | *0.7* | *1614* | *42* | *1420* | *1840* | *68* | 77 |
|  | *611-MS-06-010* | *1.485* | *0.07* | *0.0745* | *0.003* | *0.6* | *928* | *25* | *463* | *2264* | *61* | 20 |
|  | *612-MS-06-011* | *2.258* | *0.07* | *0.1311* | *0.003* | *0.1* | *1197* | *23* | *794* | *2002* | *59* | 40 |
|  | *614-MS-06-013* | *1.933* | *0.04* | *0.1167* | *0.002* | *0.5* | *1095* | *13* | *711* | *1930* | *31* | 37 |
|  | *615-MS-06-014* | *2.082* | *0.05* | *0.1147* | *0.002* | *0.6* | *1141* | *17* | *700* | *2150* | *36* | 33 |
|  | *623-MS-06-016* | *2.399* | *0.09* | *0.1496* | *0.004* | *0.4* | *1240* | *28* | *899* | *1942* | *47* | 46 |
|  | *624-MS-06-017* | *2.796* | *0.07* | *0.1641* | *0.003* | *0.7* | *1354* | *18* | *979* | *1984* | *32* | 49 |
|  | *625-MS-06-018* | *1.596* | *0.04* | *0.0908* | *0.002* | *0.7* | *969* | *14* | *560* | *2077* | *30* | 27 |
|  | *628-MS-06-021* | *3.45* | *0.13* | *0.2076* | *0.01* | *0.7* | *1524* | *34* | *1215* | *1944* | *83* | 63 |
|  | *630-MS-06-023* | *1.881* | *0.04* | *0.1136* | *0.003* | *0.6* | *1073* | *16* | *693* | *1958* | *46* | 35 |
|  | *631-MS-06-024* | *2.059* | *0.06* | *0.1293* | *0.003* | *0.7* | *1132* | *21* | *783* | *1887* | *38* | 41 |
|  | *637-MS-06-030* | *1.649* | *0.03* | *0.1062* | *0.002* | *0.5* | *989* | *11* | *651* | *1825* | *34* | 36 |
|  | *644-MS-06-031* | *3.58* | *0.18* | *0.215* | *0.011* | *0.9* | *1550* | *43* | *1252* | *1957* | *36* | 64 |
|  | *645-MS-06-032* | *1.59* | *0.07* | *0.0928* | *0.004* | *0.8* | *963* | *27* | *571* | *1987* | *41* | 29 |
|  | *646-MS-06-033* | *3.28* | *0.12* | *0.2049* | *0.007* | *0.7* | *1472* | *30* | *1200* | *1867* | *54* | 64 |
|  | *647-MS-06-034* | *3.127* | *0.09* | *0.2* | *0.007* | *0.4* | *1438* | *22* | *1175* | *1915* | *58* | 61 |
|  | *648-MS-06-035* | *3.84* | *0.19* | *0.243* | *0.012* | *0.7* | *1597* | *39* | *1402* | *1853* | *68* | 76 |
|  | *649-MS-06-036* | *1.699* | *0.04* | *0.0961* | *0.002* | *0.7* | *1008* | *14* | *591* | *2066* | *29* | 29 |
|  | *650-MS-06-037* | *2.53* | *0.11* | *0.1627* | *0.009* | *0.1* | *1279* | *32* | *971* | *1868* | *94* | 52 |
|  | *652-MS-06-039* | *2.135* | *0.08* | *0.1311* | *0.006* | *0.6* | *1158* | *25* | *793* | *1921* | *52* | 41 |
|  | *653-MS-06-040* | *3.448* | *0.08* | *0.2289* | *0.004* | *0.4* | *1514* | *18* | *1328* | *1807* | *43* | 73 |
|  | *654-MS-06-041* | *2.521* | *0.07* | *0.145* | *0.004* | *0.6* | *1277* | *20* | *873* | *2010* | *43* | 43 |
|  | *655-MS-06-042* | *5.18* | *0.21* | *0.2512* | *0.007* | *0.3* | *1847* | *34* | *1444* | *2358* | *62* | 61 |
|  | *656-MS-06-043* | *1.667* | *0.04* | *0.0977* | *0.002* | *0.8* | *994* | *15* | *601* | *1998* | *30* | 30 |
|  | *657-MS-06-044* | *2.257* | *0.08* | *0.137* | *0.004* | *0.7* | *1201* | *25* | *827* | *1948* | *40* | 42 |
|  | *658-MS-06-045* | *1.51* | *0.04* | *0.084* | *0.002* | *0.6* | *933* | *15* | *520* | *2064* | *37* | 25 |
|  | *665-MS-06-046* | *1.145* | *0.05* | *0.0577* | *0.002* | *0.9* | *770* | *21* | *361* | *2261* | *30* | 16 |
|  | *666-MS-06-047* | *4.41* | *0.11* | *0.2379* | *0.006* | *0.6* | *1717* | *21* | *1375* | *2208* | *37* | 62 |
|  | *667-MS-06-048* | *4.26* | *0.2* | *0.249* | *0.014* | *0.8* | *1683* | *38* | *1430* | *1970* | *59* | 73 |
|  | *668-MS-06-049* | *2.96* | *0.08* | *0.1794* | *0.005* | *0.7* | *1400* | *23* | *1063* | *1955* | *49* | 54 |
|  | *669-MS-06-050* | *2.7* | *0.11* | *0.1452* | *0.005* | *0.7* | *1324* | *29* | *874* | *2149* | *51* | 41 |
|  | *670-MS-06-051* | *4.06* | *0.14* | *0.2351* | *0.007* | *0.5* | *1649* | *26* | *1361* | *2052* | *44* | 66 |
|  | *671-MS-06-052* | *1.53* | *0.11* | *0.1032* | *0.009* | *0.9* | *938* | *44* | *632* | *1735* | *60* | 36 |
|  | *673-MS-06-054* | *2.879* | *0.09* | *0.125* | *0.004* | *0.8* | *1374* | *22* | *759* | *2496* | *36* | 30 |
|  | *675-MS-06-056* | *3.014* | *0.08* | *0.1419* | *0.004* | *0.8* | *1409* | *20* | *855* | *2303* | *33* | 37 |
|  | *676-MS-06-057* | *1.794* | *0.06* | *0.1011* | *0.003* | *0.7* | *1040* | *20* | *621* | *2005* | *37* | 31 |
|  | *678-MS-06-059* | *5.23* | *0.16* | *0.2961* | *0.007* | *0.6* | *1853* | *26* | *1677* | *2067* | *45* | 81 |
|  | *679-MS-06-060* | *2.78* | *0.13* | *0.1386* | *0.006* | *0.9* | *1357* | *34* | *836* | *2278* | *29* | 37 |
|  | *686-MS-06-061* | *0.345* | *0.01* | *0.0153* | *5E-04* | *0.7* | *300* | *7* | *97.6* | *2526* | *35* | 4 |
|  | *687-MS-06-062* | *2.416* | *0.07* | *0.1407* | *0.004* | *0.7* | *1249* | *19* | *848* | *1982* | *41* | 43 |
|  | *689-MS-06-064* | *2.31* | *0.16* | *0.141* | *0.011* | *0.9* | *1209* | *49* | *850* | *1841* | *78* | 46 |
|  | *690-MS-06-065* | *3.081* | *0.08* | *0.1849* | *0.005* | *0.7* | *1427* | *18* | *1096* | *1941* | *33* | 56 |
|  | *692-MS-06-067* | *2.233* | *0.06* | *0.1357* | *0.004* | *0.7* | *1196* | *18* | *819* | *1950* | *33* | 42 |
|  | *693-MS-06-068* | *3.92* | *0.11* | *0.2298* | *0.006* | *0.9* | *1613* | *22* | *1336* | *1987* | *25* | 67 |
|  | *694-MS-06-069* | *1.765* | *0.09* | *0.1062* | *0.004* | *0.8* | *1036* | *30* | *650* | *1941* | *42* | 33 |
|  | *695-MS-06-070* | *3.48* | *0.44* | *0.216* | *0.024* | *0.9* | *1500* | *100* | *1250* | *1850* | *110* | 68 |
|  | *698-MS-06-073* | *1.823* | *0.06* | *0.106* | *0.003* | *0.8* | *1050* | *20* | *649* | *2006* | *35* | 32 |
|  | *699-MS-06-074* | *7.46* | *0.24* | *0.345* | *0.011* | *0.6* | *2171* | *27* | *1908* | *2400* | *47* | 80 |
|  | *767-MS-06-076* | *1.182* | *0.05* | *0.0684* | *0.003* | *0.9* | *792* | *25* | *429* | *2002* | *28* | 21 |
|  | *768-MS-06-077* | *3.25* | *0.14* | *0.222* | *0.007* | *0.7* | *1466* | *33* | *1292* | *1769* | *51* | 73 |
|  | *771-MS-06-080* | *2.24* | *0.12* | *0.1348* | *0.008* | *0.8* | *1198* | *34* | *814* | *1985* | *56* | 41 |
|  | *773-MS-06-082* | *2.96* | *0.12* | *0.1305* | *0.004* | *0.5* | *1390* | *31* | *790* | *2530* | *66* | 31 |
|  | *774-MS-06-083* | *3.11* | *0.11* | *0.1715* | *0.005* | *0.6* | *1432* | *28* | *1020* | *2119* | *48* | 48 |
|  | *775-MS-06-084* | *7.18* | *0.23* | *0.321* | *0.011* | *0.4* | *2131* | *29* | *1793* | *2394* | *64* | 75 |
|  | *776-MS-06-085* | *2.036* | *0.04* | *0.108* | *0.002* | *0.7* | *1126* | *13* | *661* | *2192* | *28* | 30 |
|  | *778-MS-06-087* | *2.721* | *0.06* | *0.1649* | *0.004* | *0.7* | *1332* | *17* | *983* | *1973* | *29* | 50 |
|  | *779-MS-06-088* | *1.03* | *0.03* | *0.0662* | *0.002* | *0.9* | *717* | *14* | *413* | *1834* | *30* | 23 |
|  | *781-MS-06-090* | *3.005* | *0.08* | *0.1874* | *0.005* | *0.7* | *1408* | *20* | *1113* | *1874* | *34* | 59 |
|  | *790-MS-06-092* | *5.65* | *0.23* | *0.296* | *0.012* | *0.7* | *1924* | *35* | *1667* | *2147* | *58* | 78 |
|  | *791-MS-06-093* | *1.538* | *0.06* | *0.0936* | *0.004* | *0.9* | *947* | *26* | *576* | *1931* | *31* | 30 |
|  | *792-MS-06-094* | *2.259* | *0.05* | *0.1365* | *0.003* | *0.6* | *1197* | *16* | *824* | *1920* | *34* | 43 |
|  | *793-MS-06-095* | *1.139* | *0.02* | *0.0693* | *0.002* | *0.7* | *771* | *11* | *432* | *1934* | *32* | 22 |
|  | *794-MS-06-096* | *2.007* | *0.05* | *0.1229* | *0.004* | *0.6* | *1116* | *18* | *747* | *1908* | *42* | 39 |
|  | *795-MS-06-097* | *2.617* | *0.09* | *0.1609* | *0.007* | *0.7* | *1309* | *27* | *961* | *1946* | *47* | 49 |
|  | *796-MS-06-098* | *1.402* | *0.05* | *0.0999* | *0.004* | *0.8* | *889* | *20* | *614* | *1699* | *41* | 36 |
|  | *797-MS-06-099* | *1.714* | *0.07* | *0.1076* | *0.004* | *0.2* | *1012* | *28* | *659* | *1914* | *91* | 34 |
|  | *798-MS-06-100* | *3.27* | *0.12* | *0.1925* | *0.006* | *0.8* | *1473* | *30* | *1134* | *1982* | *39* | 57 |
|  | *799-MS-06-101* | *2.65* | *0.08* | *0.1568* | *0.004* | *0.6* | *1316* | *23* | *938* | *2025* | *43* | 46 |
|  | *800-MS-06-102* | *1.807* | *0.04* | *0.113* | *0.003* | *0.8* | *1048* | *15* | *690* | *1890* | *31* | 37 |
|  | *801-MS-06-103* | *2.29* | *0.11* | *0.1266* | *0.009* | *0.6* | *1206* | *33* | *768* | *2050* | *100* | 37 |
|  | *802-MS-06-104* | *3.156* | *0.09* | *0.1842* | *0.006* | *0.8* | *1453* | *22* | *1089* | *1974* | *31* | 55 |
|  | *803-MS-06-105* | *2.543* | *0.09* | *0.1647* | *0.006* | *0.6* | *1286* | *26* | *982* | *1795* | *53* | 55 |
|  | *804-MS-06-106* | *2.912* | *0.07* | *0.1573* | *0.005* | *0.7* | *1383* | *18* | *941* | *2126* | *31* | 44 |
|  | *805-MS-06-107* | *2.959* | *0.1* | *0.189* | *0.005* | *0.8* | *1396* | *24* | *1115* | *1826* | *37* | 61 |
|  | *807-MS-06-109* | *2.083* | *0.07* | *0.12* | *0.004* | *0.7* | *1142* | *23* | *730* | *2016* | *45* | 36 |
|  | *808-MS-06-110* | *1.594* | *0.04* | *0.0991* | *0.002* | *0.6* | *966* | *16* | *611* | *1894* | *37* | 32 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| **MS-09** | 873-MS-09-002 | 4.8 | 0.16 | 0.3194 | 0.01 | 0.3 | 1792 | 23 | 1786 | **1819** | **69** | 98 |
|  | 882-MS-09-004 | 4.76 | 0.11 | 0.3113 | 0.005 | 0.6 | 1777 | 19 | 1746 | **1807** | **36** | 97 |
|  | 884-MS-09-006 | 4.89 | 0.12 | 0.3067 | 0.007 | 0.7 | 1797 | 21 | 1723 | **1844** | **40** | 93 |
|  | 888-MS-09-010 | 4.02 | 0.15 | 0.2752 | 0.009 | 0.5 | 1636 | 30 | 1695 | **1793** | **64** | 95 |
|  | 890-MS-09-012 | 4.59 | 0.22 | 0.3049 | 0.01 | 0.8 | 1741 | 40 | 1714 | **1742** | **76** | 98 |
|  | 891-MS-09-013 | 4.98 | 0.12 | 0.3265 | 0.006 | 0.6 | 1814 | 20 | 1820 | **1803** | **35** | 101 |
|  | 893-MS-09-015 | 5.2 | 0.12 | 0.3328 | 0.006 | 0.4 | 1850 | 19 | 1851 | **1873** | **42** | 99 |
|  | 904-MS-09-019 | 4.7 | 0.15 | 0.3037 | 0.008 | 0.3 | 1764 | 26 | 1717 | **1856** | **59** | 93 |
|  | 906-MS-09-021 | 4.51 | 0.14 | 0.2922 | 0.005 | 0.5 | 1731 | 27 | 1746 | **1925** | **48** | 91 |
|  | 907-MS-09-022 | 5.96 | 0.13 | 0.3405 | 0.006 | 0.3 | 1978 | 21 | 1888 | **2041** | **45** | 93 |
|  | 908-MS-09-023 | 5.84 | 0.29 | 0.342 | 0.013 | 0.6 | 1947 | 43 | 1892 | **1968** | **62** | 96 |
|  | 910-MS-09-025 | 7.65 | 0.21 | 0.3962 | 0.009 | 0.3 | 2188 | 25 | 2154 | **2199** | **51** | 98 |
|  | 914-MS-09-029 | 10.81 | 0.29 | 0.464 | 0.011 | 0.6 | 2515 | 24 | 2457 | **2559** | **32** | 96 |
|  | 915-MS-09-030 | 4.93 | 0.14 | 0.3177 | 0.006 | 0.6 | 1809 | 23 | 1778 | **1851** | **43** | 96 |
|  | 928-MS-09-036 | 10.28 | 0.23 | 0.453 | 0.01 | 0.6 | 2463 | 21 | 2404 | **2507** | **32** | 96 |
|  | 931-MS-09-039 | 5.91 | 0.14 | 0.3481 | 0.007 | 0.4 | 1962 | 21 | 1928 | **1976** | **41** | 98 |
|  | 932-MS-09-040 | 4.74 | 0.15 | 0.3039 | 0.008 | 0.7 | 1771 | 26 | 1717 | **1834** | **39** | 94 |
|  | 934-MS-09-042 | 5.1 | 0.14 | 0.3137 | 0.008 | 0.5 | 1834 | 24 | 1758 | **1916** | **47** | 92 |
|  | 935-MS-09-043 | 10.49 | 0.29 | 0.4701 | 0.01 | 0.6 | 2494 | 26 | 2482 | **2491** | **35** | 100 |
|  | 936-MS-09-044 | 7.42 | 0.16 | 0.3991 | 0.006 | 0.5 | 2160 | 19 | 2168 | **2176** | **35** | 100 |
|  | 939-MS-09-047 | 5.12 | 0.16 | 0.3225 | 0.007 | 0.4 | 1834 | 26 | 1800 | **1846** | **55** | 98 |
|  | 948-MS-09-049 | 4.98 | 0.14 | 0.326 | 0.008 | 0.5 | 1820 | 26 | 1817 | **1834** | **52** | 99 |
|  | 951-MS-09-052 | 5.39 | 0.14 | 0.328 | 0.007 | 0.5 | 1879 | 22 | 1827 | **1918** | **42** | 95 |
|  | 956-MS-09-057 | 5.02 | 0.19 | 0.3248 | 0.009 | 0.1 | 1826 | 33 | 1810 | **1818** | **78** | 100 |
|  | 957-MS-09-058 | 4.77 | 0.13 | 0.3086 | 0.006 | 0.6 | 1775 | 22 | 1783 | **1910** | **40** | 93 |
|  | 958-MS-09-059 | 5.84 | 0.19 | 0.346 | 0.014 | 0.4 | 1958 | 27 | 1916 | **1988** | **79** | 96 |
|  | 959-MS-09-060 | 9.68 | 0.22 | 0.432 | 0.01 | 0.5 | 2403 | 21 | 2369 | **2524** | **37** | 94 |
|  | 962-MS-09-063 | 5.25 | 0.14 | 0.3323 | 0.007 | 0.4 | 1860 | 22 | 1853 | **1862** | **48** | 100 |
|  | 971-MS-09-065 | 4.31 | 0.14 | 0.2897 | 0.008 | 0.6 | 1692 | 28 | 1719 | **1888** | **51** | 91 |
|  | 973-MS-09-067 | 5.58 | 0.14 | 0.3402 | 0.007 | 0.6 | 1908 | 22 | 1890 | **1918** | **34** | 99 |
|  | 978-MS-09-072 | 6.34 | 0.16 | 0.3608 | 0.008 | 0.5 | 2024 | 23 | 1984 | **2050** | **43** | 97 |
|  | 979-MS-09-073 | 5 | 0.13 | 0.3247 | 0.007 | 0.6 | 1819 | 22 | 1811 | **1838** | **39** | 99 |
|  | 983-MS-09-077 | 4.46 | 0.1 | 0.2927 | 0.007 | 0.6 | 1721 | 19 | 1723 | **1888** | **35** | 91 |
|  | 992-MS-09-079 | 5.01 | 0.12 | 0.3221 | 0.006 | 0.7 | 1828 | 20 | 1799 | **1835** | **34** | 98 |
|  | 996-MS-09-083 | 5.16 | 0.19 | 0.3249 | 0.009 | 0.5 | 1837 | 31 | 1817 | **1861** | **63** | 98 |
|  | 997-MS-09-084 | 4.8 | 0.16 | 0.3038 | 0.01 | 0.7 | 1780 | 27 | 1758 | **1877** | **45** | 94 |
|  | 1000-MS-09-087 | 6.06 | 0.23 | 0.3472 | 0.01 | 0.3 | 1975 | 34 | 1931 | **2012** | **76** | 96 |
|  | 1001-MS-09-088 | 4.89 | 0.22 | 0.31 | 0.011 | 0.6 | 1801 | 39 | 1739 | **1898** | **67** | 92 |
|  | 1002-MS-09-089 | 5.36 | 0.13 | 0.3205 | 0.007 | 0.4 | 1874 | 21 | 1791 | **1936** | **46** | 93 |
|  | 1014-MS-09-094 | 6.47 | 0.2 | 0.3549 | 0.009 | 0.8 | 2042 | 29 | 2016 | **2173** | **39** | 93 |
|  | 1015-MS-09-095 | 5.9 | 0.25 | 0.352 | 0.018 | 0.7 | 1957 | 37 | 1938 | **1941** | **52** | 100 |
|  | 1022-MS-09-102 | 5.39 | 0.12 | 0.3416 | 0.009 | 0.5 | 1883 | 19 | 1897 | **1879** | **51** | 101 |
|  | 1023-MS-09-103 | 7.73 | 0.15 | 0.4115 | 0.009 | 0.6 | 2202 | 17 | 2219 | **2184** | **31** | 102 |
|  | 1026-MS-09-106 | 9.77 | 0.39 | 0.43 | 0.018 | 0.8 | 2409 | 37 | 2303 | **2488** | **45** | 93 |
|  | *Rejected analysis* | | | | | | | | | | |  |
|  | *872-MS-09-001* | *2.433* | *0.07* | *0.1272* | *0.003* | *0.4* | *1251* | *20* | *772* | *2228* | *46* | 35 |
|  | *874-MS-09-003* | *2.23* | *0.1* | *0.1237* | *0.006* | *0.8* | *1187* | *32* | *751* | *2106* | *49* | 36 |
|  | *883-MS-09-005* | *1.971* | *0.05* | *0.111* | *0.003* | *0.5* | *1107* | *18* | *679* | *2053* | *48* | 33 |
|  | *885-MS-09-007* | *1.526* | *0.03* | *0.0854* | *0.002* | *0.7* | *941* | *12* | *528* | *2074* | *29* | 25 |
|  | *886-MS-09-008* | *2.799* | *0.09* | *0.1541* | *0.005* | *0.6* | *1357* | *25* | *924* | *2148* | *47* | 43 |
|  | *887-MS-09-009* | *4.36* | *0.18* | *0.226* | *0.01* | *0.6* | *1701* | *35* | *1312* | *2153* | *59* | 61 |
|  | *889-MS-09-011* | *2.152* | *0.04* | *0.1326* | *0.003* | *0.6* | *1169* | *14* | *802* | *1913* | *30* | 42 |
|  | *894-MS-09-016* | *1.007* | *0.03* | *0.0463* | *0.001* | *0.8* | *706* | *14* | *292* | *2420* | *31* | 12 |
|  | *895-MS-09-017* | *1.51* | *0.03* | *0.0964* | *0.002* | *0.6* | *933* | *11* | *594* | *1837* | *26* | 32 |
|  | *896-MS-09-018* | *1.892* | *0.05* | *0.1091* | *0.003* | *0.6* | *1079* | *18* | *667* | *2045* | *43* | 33 |
|  | *905-MS-09-020* | *3.92* | *0.11* | *0.2336* | *0.004* | *0.5* | *1614* | *22* | *1353* | *1948* | *41* | 69 |
|  | *909-MS-09-024* | *2.122* | *0.05* | *0.1144* | *0.004* | *0.7* | *1157* | *17* | *698* | *2140* | *35* | 33 |
|  | *911-MS-09-026* | *2.306* | *0.05* | *0.1434* | *0.003* | *0.6* | *1214* | *16* | *865* | *1904* | *33* | 45 |
|  | *912-MS-09-027* | *3.32* | *0.12* | *0.1894* | *0.007* | *0.8* | *1482* | *28* | *1117* | *2002* | *40* | 56 |
|  | *913-MS-09-028* | *2.899* | *0.08* | *0.1714* | *0.006* | *0.7* | *1380* | *21* | *1019* | *1992* | *48* | 51 |
|  | *916-MS-09-031* | *2.352* | *0.08* | *0.1292* | *0.005* | *0.7* | *1225* | *25* | *783* | *2074* | *52* | 38 |
|  | *917-MS-09-032* | *1.501* | *0.06* | *0.0903* | *0.003* | *0.7* | *928* | *22* | *557* | *1947* | *43* | 29 |
|  | *918-MS-09-033* | *1.702* | *0.05* | *0.0804* | *0.002* | *0.7* | *1006* | *17* | *498* | *2370* | *30* | 21 |
|  | *926-MS-09-034* | *1.961* | *0.04* | *0.1066* | *0.002* | *0.7* | *1101* | *14* | *653* | *2130* | *27* | 31 |
|  | *927-MS-09-035* | *3.086* | *0.07* | *0.1674* | *0.004* | *0.7* | *1428* | *19* | *997* | *2197* | *40* | 45 |
|  | *929-MS-09-037* | *2.73* | *0.06* | *0.1277* | *0.003* | *0.8* | *1336* | *17* | *774* | *2376* | *25* | 33 |
|  | *930-MS-09-038* | *2.115* | *0.05* | *0.1152* | *0.004* | *0.7* | *1158* | *17* | *702* | *2116* | *43* | 33 |
|  | *933-MS-09-041* | *1.996* | *0.04* | *0.109* | *0.002* | *0.5* | *1112* | *14* | *666* | *2111* | *35* | 32 |
|  | *937-MS-09-045* | *1.402* | *0.03* | *0.0742* | *0.002* | *0.8* | *890* | *14* | *461* | *2222* | *27* | 21 |
|  | *938-MS-09-046* | *3.035* | *0.07* | *0.1386* | *0.003* | *0.8* | *1414* | *17* | *838* | *2448* | *23* | 34 |
|  | *940-MS-09-048* | *3.42* | *0.35* | *0.18* | *0.015* | *1.0* | *1491* | *79* | *1063* | *2093* | *58* | 51 |
|  | *949-MS-09-050* | *3.7* | *0.13* | *0.241* | *0.013* | *0.7* | *1569* | *27* | *1388* | *1816* | *73* | 76 |
|  | *950-MS-09-051* | *3.009* | *0.08* | *0.1823* | *0.006* | *0.5* | *1412* | *20* | *1079* | *1951* | *49* | 55 |
|  | *952-MS-09-053* | *3.23* | *0.1* | *0.1989* | *0.007* | *0.7* | *1467* | *24* | *1168* | *1925* | *42* | 61 |
|  | *953-MS-09-054* | *3.52* | *0.11* | *0.214* | *0.007* | *0.6* | *1528* | *24* | *1249* | *1862* | *47* | 67 |
|  | *954-MS-09-055* | *1.481* | *0.03* | *0.0981* | *0.002* | *0.8* | *923* | *13* | *603* | *1797* | *30* | 34 |
|  | *955-MS-09-056* | *2.312* | *0.08* | *0.13* | *0.003* | *0.5* | *1217* | *27* | *788* | *2120* | *48* | 37 |
|  | *960-MS-09-061* | *1.914* | *0.05* | *0.0889* | *0.002* | *0.8* | *1085* | *17* | *549* | *2386* | *30* | 23 |
|  | *961-MS-09-062* | *1.712* | *0.04* | *0.0896* | *0.002* | *0.8* | *1014* | *15* | *553* | *2196* | *29* | 25 |
|  | *970-MS-09-064* | *3.563* | *0.09* | *0.2188* | *0.007* | *0.8* | *1538* | *20* | *1274* | *1912* | *39* | 67 |
|  | *972-MS-09-066* | *1.746* | *0.05* | *0.0937* | *0.003* | *0.7* | *1027* | *20* | *577* | *2105* | *42* | 27 |
|  | *974-MS-09-068* | *1.876* | *0.04* | *0.0997* | *0.003* | *0.6* | *1071* | *16* | *612* | *2133* | *40* | 29 |
|  | *975-MS-09-069* | *2.98* | *0.13* | *0.1787* | *0.01* | *0.8* | *1400* | *33* | *1058* | *1934* | *64* | 55 |
|  | *976-MS-09-070* | *2.623* | *0.06* | *0.1531* | *0.004* | *0.7* | *1305* | *16* | *918* | *1990* | *33* | 46 |
|  | *977-MS-09-071* | *1.689* | *0.08* | *0.0958* | *0.005* | *0.9* | *1000* | *29* | *589* | *2050* | *41* | 29 |
|  | *980-MS-09-074* | *2.271* | *0.04* | *0.1534* | *0.003* | *0.8* | *1203* | *13* | *920* | *1759* | *24* | 52 |
|  | *981-MS-09-075* | *2.686* | *0.06* | *0.1523* | *0.004* | *0.7* | *1326* | *17* | *913* | *2042* | *33* | 45 |
|  | *984-MS-09-078* | *1.899* | *0.04* | *0.1164* | *0.003* | *0.8* | *1079* | *13* | *709* | *1935* | *28* | 37 |
|  | *993-MS-09-080* | *3.72* | *0.12* | *0.217* | *0.01* | *0.6* | *1574* | *27* | *1265* | *2019* | *54* | 63 |
|  | *994-MS-09-081* | *1.978* | *0.05* | *0.1083* | *0.003* | *0.7* | *1106* | *16* | *662* | *2128* | *26* | 31 |
|  | *999-MS-09-086* | *2.092* | *0.06* | *0.146* | *0.004* | *0.8* | *1143* | *19* | *878* | *1694* | *32* | 52 |
|  | *1003-MS-09-090* | *1.997* | *0.06* | *0.1167* | *0.003* | *0.7* | *1112* | *19* | *711* | *2005* | *33* | 35 |
|  | *1004-MS-09-091* | *4.5* | *0.31* | *0.274* | *0.018* | *0.7* | *1725* | *56* | *1557* | *1860* | *110* | 84 |
|  | *1005-MS-09-092* | *4.27* | *0.17* | *0.266* | *0.015* | *0.6* | *1686* | *34* | *1517* | *1863* | *85* | 81 |
|  | *1006-MS-09-093* | *1.823* | *0.04* | *0.1075* | *0.003* | *0.7* | *1052* | *14* | *658* | *1988* | *34* | 33 |
|  | *1017-MS-09-097* | *2.821* | *0.07* | *0.1181* | *0.003* | *0.7* | *1359* | *19* | *719* | *2561* | *37* | 28 |
|  | *1018-MS-09-098* | *2.397* | *0.09* | *0.13* | *0.005* | *0.8* | *1239* | *26* | *787* | *2147* | *44* | 37 |
|  | *1019-MS-09-099* | *0.963* | *0.03* | *0.0572* | *0.002* | *0.8* | *683* | *13* | *358* | *1994* | *32* | 18 |
|  | *1020-MS-09-100* | *1.911* | *0.04* | *0.1058* | *0.002* | *0.5* | *1085* | *14* | *651* | *2105* | *33* | 31 |
|  | *1021-MS-09-101* | *2.026* | *0.05* | *0.1111* | *0.003* | *0.8* | *1122* | *17* | *679* | *2105* | *28* | 32 |
|  | *1024-MS-09-104* | *5.23* | *0.1* | *0.2956* | *0.006* | *0.6* | *1856* | *17* | *1668* | *2065* | *29* | 81 |
|  | *1025-MS-09-105* | *4.25* | *0.24* | *0.215* | *0.011* | *0.8* | *1678* | *46* | *1265* | *2274* | *67* | 56 |
|  | *1027-MS-09-107* | *8.28* | *0.31* | *0.333* | *0.013* | *0.8* | *2257* | *34* | *1852* | *2652* | *42* | 70 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| **D02** | D2N01 | 4.671 | 0.091 | 0.3008 | 0.005 | 0.5 | 1765 | 16 | 1696 | **1674** | **32** | 101 |
|  | D2N03 | 11.3 | 0.22 | 0.4438 | 0.008 | 0.8 | 2545 | 19 | 2364 | **2507** | **22** | 94 |
|  | D2N04 | 4.86 | 0.13 | 0.2824 | 0.005 | 0.4 | 1794 | 22 | 1602 | **1739** | **47** | 92 |
|  | D2N05 | 5.66 | 0.11 | 0.3202 | 0.006 | 0.6 | 1928 | 17 | 1792 | **1816** | **30** | 99 |
|  | D2N07 | 5.99 | 0.14 | 0.3188 | 0.006 | 0.5 | 1974 | 21 | 1832 | **1931** | **41** | 95 |
|  | D2N102 | 4.59 | 0.11 | 0.3115 | 0.006 | 0.5 | 1746 | 19 | 1747 | **1849** | **39** | 94 |
|  | D2N104 | 3.93 | 0.14 | 0.2773 | 0.007 | 0.4 | 1629 | 28 | 1624 | **1721** | **57** | 94 |
|  | D2N16 | 3.422 | 0.073 | 0.2469 | 0.004 | 0.4 | 1509 | 17 | 1421 | **1547** | **41** | 92 |
|  | D2N18 | 11.15 | 0.21 | 0.4421 | 0.007 | 0.6 | 2533 | 18 | 2358 | **2573** | **25** | 92 |
|  | D2N24 | 4.481 | 0.098 | 0.3061 | 0.006 | 0.6 | 1732 | 18 | 1725 | **1778** | **34** | 97 |
|  | D2N26 | 6.06 | 0.13 | 0.3519 | 0.007 | 0.6 | 1983 | 19 | 1942 | **2045** | **28** | 95 |
|  | D2N28 | 4.37 | 0.1 | 0.2992 | 0.006 | 0.6 | 1704 | 20 | 1689 | **1729** | **31** | 98 |
|  | D2N29 | 5.09 | 0.11 | 0.3166 | 0.006 | 0.4 | 1831 | 19 | 1822 | **1985** | **40** | 92 |
|  | D2N30 | 5.13 | 0.12 | 0.328 | 0.006 | 0.5 | 1843 | 20 | 1826 | **1885** | **35** | 97 |
|  | D2N31 | 5.86 | 0.12 | 0.3461 | 0.006 | 0.6 | 1953 | 18 | 1921 | **2075** | **23** | 93 |
|  | D2N32 | 5.08 | 0.1 | 0.3278 | 0.006 | 0.7 | 1831 | 17 | 1828 | **1853** | **25** | 99 |
|  | D2N33 | 3.72 | 0.14 | 0.2642 | 0.008 | 0.3 | 1582 | 27 | 1509 | **1638** | **80** | 92 |
|  | D2N34 | 5.21 | 0.11 | 0.3157 | 0.007 | 0.7 | 1857 | 18 | 1818 | **1993** | **29** | 91 |
|  | D2N35 | 5.4 | 0.1 | 0.3285 | 0.006 | 0.5 | 1884 | 16 | 1829 | **1897** | **31** | 96 |
|  | D2N36 | 3.989 | 0.088 | 0.2831 | 0.006 | 0.8 | 1628 | 18 | 1600 | **1748** | **31** | 92 |
|  | D2N38 | 4.6 | 0.1 | 0.2995 | 0.005 | 0.6 | 1749 | 19 | 1705 | **1837** | **37** | 93 |
|  | D2N39 | 5.12 | 0.12 | 0.3195 | 0.007 | 0.4 | 1837 | 20 | 1785 | **1829** | **42** | 98 |
|  | D2N41 | 5.18 | 0.2 | 0.322 | 0.013 | 0.6 | 1846 | 32 | 1834 | **1920** | **48** | 96 |
|  | D2N42 | 5.54 | 0.2 | 0.322 | 0.01 | 0.5 | 1904 | 32 | 1804 | **1866** | **68** | 97 |
|  | D2N44 | 5.01 | 0.11 | 0.2981 | 0.006 | 0.5 | 1816 | 20 | 1683 | **1821** | **38** | 92 |
|  | D2N50 | 5.04 | 0.1 | 0.3058 | 0.006 | 0.6 | 1821 | 17 | 1718 | **1819** | **33** | 94 |
|  | D2N51 | 7.39 | 0.14 | 0.3697 | 0.007 | 0.7 | 2159 | 16 | 2030 | **2159** | **27** | 94 |
|  | D2N54 | 5.31 | 0.11 | 0.3232 | 0.007 | 0.5 | 1866 | 18 | 1807 | **1841** | **37** | 98 |
|  | D2N55 | 3.186 | 0.074 | 0.246 | 0.005 | 0.5 | 1454 | 18 | 1499 | **1608** | **39** | 93 |
|  | D2N57 | 7.39 | 0.18 | 0.3884 | 0.008 | 0.5 | 2162 | 20 | 2113 | **2165** | **37** | 98 |
|  | D2N58 | 4.58 | 0.1 | 0.2871 | 0.005 | 0.6 | 1743 | 18 | 1699 | **1864** | **32** | 91 |
|  | D2N61 | 5.03 | 0.15 | 0.314 | 0.007 | 0.5 | 1822 | 25 | 1760 | **1781** | **46** | 99 |
|  | D2N63 | 4.439 | 0.084 | 0.2819 | 0.006 | 0.6 | 1720 | 16 | 1602 | **1731** | **33** | 93 |
|  | D2N64 | 5.27 | 0.13 | 0.3039 | 0.006 | 0.6 | 1863 | 20 | 1714 | **1822** | **37** | 94 |
|  | D2N66 | 10.71 | 0.3 | 0.42 | 0.011 | 0.6 | 2505 | 26 | 2270 | **2479** | **42** | 92 |
|  | D2N69 | 3.644 | 0.084 | 0.2442 | 0.004 | 0.4 | 1556 | 18 | 1411 | **1538** | **42** | 92 |
|  | D2N75 | 4.88 | 0.16 | 0.2981 | 0.007 | 0.3 | 1790 | 28 | 1684 | **1782** | **57** | 95 |
|  | D2N80 | 3.6 | 0.16 | 0.2508 | 0.008 | 0.2 | 1546 | 34 | 1439 | **1568** | **91** | 92 |
|  | D2N81 | 3.9 | 0.12 | 0.2767 | 0.008 | 0.6 | 1609 | 25 | 1579 | **1667** | **47** | 95 |
|  | D2N84 | 4.96 | 0.21 | 0.322 | 0.013 | 0.3 | 1807 | 37 | 1803 | **1939** | **87** | 93 |
|  | D2N87 | 4.028 | 0.081 | 0.2783 | 0.004 | 0.5 | 1641 | 16 | 1732 | **1891** | **31** | 92 |
|  | D2N88 | 4.65 | 0.11 | 0.3142 | 0.006 | 0.2 | 1757 | 21 | 1760 | **1881** | **51** | 94 |
|  | D2N89 | 4.08 | 0.21 | 0.2873 | 0.01 | 0.3 | 1650 | 42 | 1636 | **1783** | **93** | 92 |
|  | D2N90 | 13.68 | 0.28 | 0.4984 | 0.009 | 0.5 | 2732 | 19 | 2691 | **2946** | **28** | 91 |
|  | D2N91 | 4.929 | 0.086 | 0.3204 | 0.005 | 0.7 | 1804 | 15 | 1790 | **1923** | **22** | 93 |
|  | D2N92 | 4.82 | 0.16 | 0.334 | 0.01 | 0.7 | 1795 | 28 | 1863 | **1853** | **44** | 101 |
|  | D2N95 | 4.024 | 0.092 | 0.279 | 0.005 | 0.8 | 1635 | 19 | 1735 | **1845** | **27** | 94 |
|  | D2N97 | 4.98 | 0.13 | 0.3259 | 0.006 | 0.5 | 1813 | 21 | 1817 | **1856** | **44** | 98 |
|  | *Rejected analysis* | | | | | | | | | | |  |
|  | *D2N02* | *10.99* | *0.2* | *0.4207* | *0.007* | *0.8* | *2519* | *18* | *2264* | *2557* | *18* | 89 |
|  | *D2N06* | *3.97* | *0.09* | *0.2164* | *0.004* | *0.4* | *1630* | *17* | *1262* | *1842* | *42* | 69 |
|  | *D2N08* | *8.56* | *0.16* | *0.3404* | *0.007* | *0.4* | *2291* | *17* | *1887* | *2424* | *34* | 78 |
|  | *D2N09* | *2.711* | *0.04* | *0.1493* | *0.002* | *0.6* | *1332* | *11* | *897* | *1891* | *22* | 47 |
|  | *D2N10* | *6.78* | *0.16* | *0.2866* | *0.006* | *0.7* | *2082* | *21* | *1626* | *2376* | *28* | 68 |
|  | *D2N100* | *2.563* | *0.06* | *0.1569* | *0.003* | *0.7* | *1288* | *17* | *939* | *1947* | *29* | 48 |
|  | *D2N101* | *2.737* | *0.07* | *0.1859* | *0.005* | *0.8* | *1340* | *19* | *1101* | *1814* | *28* | 61 |
|  | *D2N103* | *3.911* | *0.09* | *0.2317* | *0.005* | *0.7* | *1615* | *19* | *1343* | *1951* | *31* | 69 |
|  | *D2N105* | *3.427* | *0.07* | *0.2124* | *0.004* | *0.6* | *1510* | *17* | *1241* | *1852* | *34* | 67 |
|  | *D2N106* | *3.059* | *0.07* | *0.1848* | *0.003* | *0.6* | *1420* | *17* | *1092* | *1875* | *27* | 58 |
|  | *D2N107* | *2.715* | *0.04* | *0.1702* | *0.003* | *0.7* | *1332* | *12* | *1012* | *1849* | *23* | 55 |
|  | *D2N11* | *7.62* | *0.17* | *0.3149* | *0.008* | *0.8* | *2187* | *19* | *1763* | *2451* | *26* | 72 |
|  | *D2N12* | *3.57* | *0.12* | *0.228* | *0.007* | *0.8* | *1537* | *27* | *1328* | *1733* | *34* | 77 |
|  | *D2N13* | *2.998* | *0.08* | *0.1881* | *0.004* | *0.8* | *1408* | *20* | *1112* | *1783* | *32* | 62 |
|  | *D2N14* | *2.132* | *0.06* | *0.148* | *0.004* | *0.7* | *1158* | *18* | *889* | *1609* | *38* | 55 |
|  | *D2N15* | *2.955* | *0.09* | *0.1668* | *0.004* | *0.8* | *1394* | *23* | *996* | *1995* | *27* | 50 |
|  | *D2N17* | *3.855* | *0.08* | *0.2428* | *0.005* | *0.5* | *1605* | *16* | *1400* | *1769* | *39* | 79 |
|  | *D2N19* | *3.258* | *0.06* | *0.1893* | *0.004* | *0.4* | *1470* | *16* | *1117* | *1937* | *38* | 58 |
|  | *D2N20* | *2.432* | *0.07* | *0.1515* | *0.004* | *0.7* | *1250* | *21* | *909* | *1919* | *44* | 47 |
|  | *D2N21* | *10.5* | *0.23* | *0.3937* | *0.008* | *0.7* | *2478* | *21* | *2138* | *2795* | *32* | 76 |
|  | *D2N22* | *2.545* | *0.05* | *0.1707* | *0.003* | *0.6* | *1283* | *14* | *1016* | *1827* | *29* | 56 |
|  | *D2N23* | *3.587* | *0.09* | *0.2391* | *0.005* | *0.5* | *1543* | *20* | *1381* | *1861* | *43* | 74 |
|  | *D2N25* | *3.39* | *0.11* | *0.2208* | *0.006* | *0.6* | *1506* | *26* | *1289* | *1848* | *45* | 70 |
|  | *D2N27* | *3.18* | *0.09* | *0.1995* | *0.006* | *0.8* | *1449* | *23* | *1172* | *1921* | *35* | 61 |
|  | *D2N37* | *3.159* | *0.05* | *0.2012* | *0.003* | *0.6* | *1450* | *13* | *1181* | *1805* | *28* | 65 |
|  | *D2N40* | *2.86* | *0.04* | *0.1442* | *0.002* | *0.5* | *1372* | *11* | *868* | *2182* | *27* | 40 |
|  | *D2N43* | *3.51* | *0.1* | *0.1955* | *0.004* | *0.6* | *1533* | *21* | *1151* | *1909* | *40* | 60 |
|  | *D2N45* | *3.48* | *0.15* | *0.2342* | *0.008* | *0.4* | *1522* | *32* | *1354* | *1572* | *85* | 86 |
|  | *D2N46* | *3.8* | *0.1* | *0.2249* | *0.005* | *0.5* | *1587* | *21* | *1307* | *1781* | *37* | 73 |
|  | *D2N47* | *4.75* | *0.23* | *0.26* | *0.012* | *0.6* | *1772* | *41* | *1484* | *1982* | *72* | 75 |
|  | *D2N48* | *3.048* | *0.07* | *0.207* | *0.004* | *0.5* | *1423* | *18* | *1211* | *1598* | *44* | 76 |
|  | *D2N49* | *2.602* | *0.06* | *0.1611* | *0.003* | *0.7* | *1298* | *17* | *962* | *1728* | *30* | 56 |
|  | *D2N52* | *4.369* | *0.08* | *0.2646* | *0.004* | *0.6* | *1705* | *15* | *1514* | *1849* | *29* | 82 |
|  | *D2N53* | *3.892* | *0.07* | *0.239* | *0.005* | *0.6* | *1613* | *15* | *1381* | *1801* | *30* | 77 |
|  | *D2N56* | *2.677* | *0.05* | *0.179* | *0.003* | *0.6* | *1320* | *15* | *1061* | *1778* | *31* | 60 |
|  | *D2N59* | *4.72* | *0.15* | *0.2143* | *0.006* | *0.8* | *1777* | *26* | *1254* | *2382* | *31* | 53 |
|  | *D2N60* | *3.427* | *0.05* | *0.2185* | *0.003* | *0.5* | *1509* | *10* | *1273* | *1824* | *24* | 70 |
|  | *D2N62* | *5.01* | *0.19* | *0.2688* | *0.008* | *0.7* | *1815* | *32* | *1533* | *1974* | *50* | 78 |
|  | *D2N65* | *4.64* | *0.12* | *0.2763* | *0.005* | *0.5* | *1756* | *20* | *1574* | *1801* | *37* | 87 |
|  | *D2N67* | *3.562* | *0.1* | *0.2082* | *0.006* | *0.4* | *1542* | *22* | *1222* | *1777* | *52* | 69 |
|  | *D2N68* | *4.6* | *0.14* | *0.2282* | *0.005* | *0.6* | *1750* | *25* | *1324* | *2086* | *41* | 63 |
|  | *D2N70* | *3.142* | *0.06* | *0.1878* | *0.004* | *0.6* | *1440* | *14* | *1110* | *1828* | *29* | 61 |
|  | *D2N71* | *18.88* | *0.44* | *0.496* | *0.012* | *0.5* | *3033* | *22* | *2594* | *3244* | *34* | 80 |
|  | *D2N72* | *4.479* | *0.09* | *0.1917* | *0.004* | *0.6* | *1730* | *17* | *1130* | *2452* | *30* | 46 |
|  | *D2N73* | *3.65* | *0.12* | *0.1991* | *0.005* | *0.7* | *1554* | *27* | *1170* | *1945* | *43* | 60 |
|  | *D2N74* | *4.201* | *0.1* | *0.2561* | *0.006* | *0.6* | *1676* | *19* | *1468* | *1801* | *42* | 82 |
|  | *D2N76* | *8.73* | *0.22* | *0.38* | *0.01* | *0.6* | *2310* | *24* | *2079* | *2382* | *38* | 87 |
|  | *D2N77* | *3.367* | *0.06* | *0.2049* | *0.004* | *0.7* | *1496* | *14* | *1205* | *1819* | *26* | 66 |
|  | *D2N78* | *2.22* | *0.04* | *0.1497* | *0.003* | *0.6* | *1190* | *12* | *899* | *1711* | *28* | 53 |
|  | *D2N79* | *3.839* | *0.08* | *0.2374* | *0.004* | *0.5* | *1604* | *17* | *1374* | *1842* | *35* | 75 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| **D24** | D24N03 | 6.18 | 0.17 | 0.3489 | 0.007 | 0.5 | 2000 | 25 | 1934 | **1944** | **44** | 99 |
|  | D24N06 | 5.1 | 0.2 | 0.339 | 0.011 | 0.5 | 1838 | 32 | 1878 | **1885** | **74** | 100 |
|  | D24N17 | 4.13 | 0.11 | 0.2804 | 0.007 | 0.4 | 1658 | 21 | 1640 | **1750** | **50** | 94 |
|  | D24N37 | 4.655 | 0.076 | 0.3008 | 0.005 | 0.5 | 1759 | 13 | 1800 | **1949** | **31** | 92 |
|  | D24N46 | 4.03 | 0.12 | 0.2785 | 0.008 | 0.6 | 1636 | 24 | 1631 | **1729** | **48** | 94 |
|  | D24N48 | 4.733 | 0.091 | 0.3105 | 0.005 | 0.6 | 1775 | 16 | 1742 | **1855** | **30** | 94 |
|  | D24N64 | 4.08 | 0.1 | 0.2934 | 0.006 | 0.4 | 1646 | 21 | 1764 | **1841** | **48** | 96 |
|  | D24N70 | 4.44 | 0.18 | 0.304 | 0.01 | 0.3 | 1720 | 32 | 1715 | **1821** | **77** | 94 |
|  | D24N71 | 4.488 | 0.072 | 0.312 | 0.005 | 0.5 | 1727 | 13 | 1749 | **1744** | **29** | 100 |
|  | D24N80 | 4.08 | 0.12 | 0.2891 | 0.006 | 0.3 | 1648 | 24 | 1641 | **1703** | **55** | 96 |
|  | D24N84 | 4.185 | 0.085 | 0.2953 | 0.006 | 0.2 | 1671 | 17 | 1666 | **1780** | **46** | 94 |
|  | D24N88 | 4.69 | 0.11 | 0.324 | 0.007 | 0.3 | 1764 | 20 | 1808 | **1838** | **50** | 98 |
|  | D24N101 | 5.034 | 0.097 | 0.3185 | 0.005 | 0.4 | 1822 | 16 | 1784 | **1871** | **36** | 95 |
|  | D24N102 | 5.47 | 0.11 | 0.3454 | 0.007 | 0.6 | 1899 | 17 | 1910 | **1917** | **31** | 100 |
|  | D24N105 | 3.94 | 0.12 | 0.2856 | 0.007 | 0.3 | 1619 | 24 | 1618 | **1659** | **59** | 98 |
|  | D24N107 | 9.24 | 0.33 | 0.442 | 0.017 | 0.4 | 2369 | 34 | 2364 | **2419** | **69** | 98 |
|  | D24N108 | 4.85 | 0.11 | 0.3301 | 0.008 | 0.7 | 1797 | 20 | 1843 | **1842** | **31** | 100 |
|  | D24N113 | 4.12 | 0.1 | 0.3078 | 0.008 | 0.4 | 1662 | 20 | 1733 | **1731** | **48** | 100 |
|  | D24N117 | 4.72 | 0.13 | 0.3276 | 0.01 | 0.4 | 1770 | 23 | 1826 | **1839** | **54** | 99 |
|  | D24N118 | 4.87 | 0.11 | 0.3107 | 0.006 | 0.5 | 1796 | 19 | 1894 | **2068** | **42** | 92 |
|  | D24N119 | 4.441 | 0.089 | 0.3145 | 0.006 | 0.5 | 1718 | 16 | 1761 | **1770** | **34** | 99 |
|  | D24N122 | 5.55 | 0.1 | 0.3259 | 0.006 | 0.3 | 1911 | 16 | 1817 | **1855** | **36** | 98 |
|  | D24N129 | 10.51 | 0.16 | 0.4184 | 0.006 | 0.4 | 2481 | 14 | 2252 | **2450** | **28** | 92 |
|  | *Rejected analysis* | | | | | | | | | | |  |
|  | *D24N01* | *3.421* | *0.08* | *0.2016* | *0.005* | *0.6* | *1509* | *18* | *1185* | *1918* | *28* | 62 |
|  | *D24N02* | *3.287* | *0.06* | *0.194* | *0.004* | *0.7* | *1480* | *15* | *1142* | *1955* | *28* | 58 |
|  | *D24N04* | *3.728* | *0.09* | *0.2072* | *0.005* | *0.5* | *1585* | *20* | *1213* | *2028* | *38* | 60 |
|  | *D24N05* | *2.372* | *0.04* | *0.1464* | *0.003* | *0.6* | *1233* | *13* | *880* | *1848* | *24* | 48 |
|  | *D24N07* | *2.461* | *0.05* | *0.1482* | *0.003* | *0.7* | *1259* | *14* | *890* | *1882* | *27* | 47 |
|  | *D24N08* | *2.679* | *0.07* | *0.1427* | *0.004* | *0.9* | *1320* | *19* | *859* | *2109* | *23* | 41 |
|  | *D24N09* | *3.449* | *0.08* | *0.1851* | *0.003* | *0.7* | *1513* | *18* | *1094* | *2015* | *28* | 54 |
|  | *D24N10* | *2.697* | *0.07* | *0.1683* | *0.004* | *0.5* | *1326* | *19* | *1001* | *1819* | *46* | 55 |
|  | *D24N11* | *4.99* | *0.13* | *0.2519* | *0.006* | *0.5* | *1816* | *23* | *1446* | *2174* | *42* | 67 |
|  | *D24N12* | *3.58* | *0.12* | *0.2019* | *0.006* | *0.9* | *1544* | *25* | *1188* | *1997* | *22* | 59 |
|  | *D24N13* | *3.373* | *0.06* | *0.194* | *0.004* | *0.6* | *1500* | *14* | *1142* | *1954* | *32* | 58 |
|  | *D24N14* | *1.989* | *0.07* | *0.1268* | *0.004* | *0.7* | *1117* | *23* | *768* | *1797* | *47* | 43 |
|  | *D24N15* | *3.024* | *0.08* | *0.1677* | *0.005* | *0.8* | *1409* | *22* | *998* | *2125* | *43* | 47 |
|  | *D24N16* | *4.78* | *0.1* | *0.2547* | *0.006* | *0.6* | *1780* | *18* | *1461* | *2141* | *35* | 68 |
|  | *D24N18* | *3.57* | *0.07* | *0.2351* | *0.006* | *0.3* | *1544* | *14* | *1360* | *1815* | *44* | 75 |
|  | *D24N19* | *3.981* | *0.08* | *0.2462* | *0.004* | *0.6* | *1629* | *15* | *1421* | *1839* | *30* | 77 |
|  | *D24N20* | *2.491* | *0.05* | *0.1157* | *0.002* | *0.8* | *1270* | *14* | *705* | *2377* | *21* | 30 |
|  | *D24N21* | *4.81* | *0.15* | *0.2759* | *0.007* | *0.7* | *1783* | *26* | *1570* | *1840* | *37* | 85 |
|  | *D24N22* | *7.21* | *0.15* | *0.2959* | *0.005* | *0.7* | *2140* | *19* | *1669* | *2447* | *23* | 68 |
|  | *D24N23* | *2.806* | *0.08* | *0.1579* | *0.005* | *0.9* | *1356* | *22* | *944* | *1956* | *30* | 48 |
|  | *D24N24* | *2.169* | *0.04* | *0.1287* | *0.002* | *0.8* | *1171* | *13* | *780* | *1788* | *22* | 44 |
|  | *D24N25* | *2.948* | *0.1* | *0.1535* | *0.004* | *0.8* | *1389* | *25* | *922* | *2005* | *28* | 46 |
|  | *D24N26* | *3.76* | *0.1* | *0.2068* | *0.005* | *0.8* | *1585* | *21* | *1210* | *1952* | *30* | 62 |
|  | *D24N27* | *3.44* | *0.13* | *0.2015* | *0.007* | *0.5* | *1511* | *29* | *1180* | *1802* | *53* | 65 |
|  | *D24N28* | *8.5* | *0.17* | *0.3563* | *0.007* | *0.6* | *2283* | *18* | *1966* | *2439* | *28* | 81 |
|  | *D24N29* | *4.94* | *0.11* | *0.2831* | *0.006* | *0.6* | *1807* | *19* | *1609* | *1900* | *33* | 85 |
|  | *D24N30* | *3.422* | *0.1* | *0.2095* | *0.006* | *0.9* | *1508* | *23* | *1231* | *1895* | *30* | 65 |
|  | *D24N31* | *2.843* | *0.07* | *0.1755* | *0.004* | *0.5* | *1364* | *19* | *1042* | *1815* | *48* | 57 |
|  | *D24N32* | *2.399* | *0.08* | *0.1374* | *0.004* | *0.8* | *1238* | *25* | *830* | *1928* | *39* | 43 |
|  | *D24N33* | *8.12* | *0.2* | *0.2541* | *0.005* | *0.5* | *2243* | *22* | *1463* | *3052* | *35* | 48 |
|  | *D24N35* | *4.59* | *0.11* | *0.2416* | *0.006* | *0.6* | *1751* | *20* | *1394* | *2183* | *40* | 64 |
|  | *D24N36* | *2.039* | *0.04* | *0.1214* | *0.002* | *0.7* | *1130* | *15* | *739* | *1967* | *27* | 38 |
|  | *D24N38* | *5.22* | *0.11* | *0.29* | *0.005* | *0.7* | *1855* | *18* | *1640* | *2071* | *27* | 79 |
|  | *D24N39* | *2.451* | *0.05* | *0.1552* | *0.003* | *0.6* | *1256* | *14* | *930* | *1855* | *31* | 50 |
|  | *D24N40* | *2.375* | *0.04* | *0.1429* | *0.003* | *0.6* | *1235* | *13* | *861* | *1947* | *33* | 44 |
|  | *D24N41* | *2.706* | *0.06* | *0.1888* | *0.004* | *0.6* | *1327* | *17* | *1114* | *1621* | *43* | 69 |
|  | *D24N42* | *2.441* | *0.07* | *0.1495* | *0.004* | *0.9* | *1253* | *22* | *898* | *1978* | *35* | 45 |
|  | *D24N43* | *1.845* | *0.04* | *0.1088* | *0.002* | *0.7* | *1062* | *13* | *666* | *2003* | *27* | 33 |
|  | *D24N44* | *3.301* | *0.06* | *0.2303* | *0.003* | *0.8* | *1483* | *13* | *1336* | *1710* | *18* | 78 |
|  | *D24N45* | *3.778* | *0.09* | *0.2482* | *0.004* | *0.7* | *1584* | *19* | *1428* | *1805* | *28* | 79 |
|  | *D24N47* | *2.939* | *0.06* | *0.1884* | *0.005* | *0.5* | *1389* | *16* | *1112* | *1866* | *44* | 60 |
|  | *D24N49* | *1.867* | *0.04* | *0.1194* | *0.002* | *0.5* | *1071* | *14* | *727* | *1893* | *34* | 38 |
|  | *D24N50* | *3.8* | *0.1* | *0.2479* | *0.005* | *0.7* | *1589* | *22* | *1427* | *1835* | *36* | 78 |
|  | *D24N51* | *2.459* | *0.04* | *0.0968* | *0.002* | *0.6* | *1263* | *10* | *595* | *2728* | *26* | 22 |
|  | *D24N52* | *2.887* | *0.07* | *0.2034* | *0.004* | *0.4* | *1380* | *17* | *1193* | *1735* | *42* | 69 |
|  | *D24N53* | *2.773* | *0.09* | *0.1835* | *0.006* | *0.8* | *1353* | *24* | *1085* | *1921* | *37* | 56 |
|  | *D24N54* | *3.278* | *0.09* | *0.2311* | *0.006* | *0.7* | *1475* | *22* | *1339* | *1798* | *35* | 74 |
|  | *D24N56* | *1.462* | *0.05* | *0.0762* | *0.001* | *0.3* | *916* | *19* | *474* | *2351* | *57* | 20 |
|  | *D24N57* | *1.332* | *0.02* | *0.0878* | *0.002* | *0.8* | *860* | *9.1* | *543* | *1871* | *17* | 29 |
|  | *D24N58* | *3.984* | *0.08* | *0.2467* | *0.005* | *0.4* | *1632* | *17* | *1425* | *1929* | *46* | 74 |
|  | *D24N59* | *3.405* | *0.08* | *0.2113* | *0.004* | *0.4* | *1505* | *19* | *1235* | *1939* | *36* | 64 |
|  | *D24N60* | *3.117* | *0.06* | *0.1816* | *0.004* | *0.7* | *1437* | *14* | *1077* | *2058* | *23* | 52 |
|  | *D24N61* | *2.909* | *0.05* | *0.2* | *0.003* | *0.5* | *1383* | *12* | *1175* | *1762* | *25* | 67 |
|  | *D24N62* | *3.457* | *0.07* | *0.2261* | *0.004* | *0.6* | *1515* | *15* | *1313* | *1850* | *31* | 71 |
|  | *D24N63* | *2.193* | *0.05* | *0.1501* | *0.002* | *0.5* | *1179* | *16* | *903* | *1807* | *36* | 50 |
|  | *D24N65* | *7.09* | *0.18* | *0.2738* | *0.008* | *0.4* | *2123* | *23* | *1557* | *2760* | *48* | 56 |
|  | *D24N66* | *2.76* | *0.18* | *0.1582* | *0.008* | *0.7* | *1348* | *51* | *945* | *2134* | *77* | 44 |
|  | *D24N67* | *2.565* | *0.1* | *0.1798* | *0.006* | *0.6* | *1296* | *26* | *1065* | *1785* | *59* | 60 |
|  | *D24N68* | *3.252* | *0.09* | *0.2193* | *0.004* | *0.5* | *1471* | *21* | *1277* | *1818* | *46* | 70 |
|  | *D24N69* | *2.14* | *0.03* | *0.1119* | *0.002* | *0.8* | *1161* | *9.6* | *684* | *2264* | *22* | 30 |
|  | *D24N72* | *4.686* | *0.1* | *0.2387* | *0.005* | *0.6* | *1762* | *18* | *1379* | *2231* | *32* | 62 |
|  | *D24N73* | *2.227* | *0.05* | *0.1337* | *0.003* | *0.7* | *1192* | *14* | *808* | *2015* | *29* | 40 |
|  | *D24N74* | *3.01* | *0.08* | *0.212* | *0.005* | *0.4* | *1407* | *21* | *1239* | *1718* | *49* | 72 |
|  | *D24N75* | *5.07* | *0.12* | *0.2581* | *0.007* | *0.8* | *1830* | *20* | *1483* | *2266* | *31* | 65 |
|  | *D24N76* | *11.9* | *1.5* | *0.185* | *0.023* | *1.0* | *2620* | *110* | *1090* | *4103* | *53* | 27 |
|  | *D24N77* | *3.77* | *0.13* | *0.2274* | *0.008* | *0.7* | *1582* | *27* | *1319* | *1923* | *50* | 69 |
|  | *D24N78* | *2.886* | *0.07* | *0.1901* | *0.005* | *0.6* | *1379* | *20* | *1121* | *1810* | *38* | 62 |
|  | *D24N79* | *2.279* | *0.04* | *0.1435* | *0.002* | *0.6* | *1207* | *13* | *864* | *1900* | *29* | 45 |
|  | *D24N81* | *1.995* | *0.05* | *0.1338* | *0.004* | *0.7* | *1121* | *18* | *809* | *1844* | *38* | 44 |
|  | *D24N82* | *2.115* | *0.03* | *0.1324* | *0.002* | *0.7* | *1152* | *11* | *801* | *1940* | *25* | 41 |
|  | *D24N83* | *2.676* | *0.08* | *0.1804* | *0.006* | *0.8* | *1320* | *21* | *1068* | *1823* | *38* | 59 |
|  | *D24N85* | *3.218* | *0.06* | *0.2065* | *0.004* | *0.5* | *1459* | *14* | *1209* | *1931* | *33* | 63 |
|  | *D24N86* | *3.58* | *0.14* | *0.1881* | *0.007* | *0.9* | *1550* | *32* | *1109* | *2310* | *37* | 48 |
|  | *D24N87* | *2.462* | *0.07* | *0.1566* | *0.004* | *0.6* | *1259* | *20* | *937* | *1942* | *43* | 48 |
|  | *D24N89* | *4.45* | *0.21* | *0.2327* | *0.006* | *0.2* | *1718* | *37* | *1351* | *2348* | *75* | 58 |
|  | *D24N90* | *2.92* | *0.14* | *0.1346* | *0.006* | *0.4* | *1384* | *35* | *813* | *2473* | *73* | 33 |
|  | *D24N91* | *3.017* | *0.05* | *0.2034* | *0.003* | *0.5* | *1410* | *13* | *1195* | *1886* | *30* | 63 |
|  | *D24N92* | *3.266* | *0.09* | *0.1952* | *0.004* | *0.6* | *1473* | *21* | *1149* | *2140* | *39* | 54 |
|  | *D24N93* | *3.385* | *0.08* | *0.2111* | *0.003* | *0.3* | *1500* | *18* | *1234* | *2045* | *41* | 60 |
|  | *D24N94* | *1.974* | *0.03* | *0.1331* | *0.002* | *0.7* | *1107* | *11* | *805* | *1905* | *23* | 42 |
|  | *D24N95* | *3.248* | *0.06* | *0.2242* | *0.004* | *0.7* | *1466* | *14* | *1305* | *1845* | *29* | 71 |
|  | *D24N96* | *5.349* | *0.08* | *0.2628* | *0.004* | *0.7* | *1876* | *12* | *1503* | *2436* | *22* | 62 |
|  | *D24N97* | *2.935* | *0.09* | *0.1765* | *0.005* | *0.6* | *1390* | *23* | *1047* | *2035* | *48* | 51 |
|  | *D24N98* | *0.312* | *0.02* | *0.0207* | *0.002* | *1.0* | *272* | *16* | *132* | *2000* | *79* | 7 |
|  | *D24N99* | *2.11* | *0.09* | *0.1466* | *0.006* | *0.5* | *1149* | *29* | *888* | *1826* | *69* | 49 |
|  | *D24N100* | *4.68* | *0.12* | *0.2609* | *0.005* | *0.3* | *1761* | *21* | *1493* | *2170* | *44* | 69 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| **D57** | D57N003 | 5.27 | 0.18 | 0.311 | 0.008 | 0.4 | 1859 | 30 | 1757 | **1843** | **61** | 95 |
|  | D57N013 | 4.63 | 0.11 | 0.2977 | 0.006 | 0.3 | 1758 | 21 | 1692 | **1848** | **47** | 92 |
|  | D57N014 | 4.46 | 0.089 | 0.2904 | 0.005 | 0.4 | 1724 | 17 | 1692 | **1817** | **37** | 93 |
|  | D57N022 | 5.26 | 0.13 | 0.3324 | 0.007 | 0.3 | 1860 | 20 | 1851 | **1886** | **46** | 98 |
|  | D57N025 | 4.11 | 0.26 | 0.284 | 0.016 | 0.7 | 1651 | 53 | 1611 | **1740** | **91** | 93 |
|  | D57N028 | 4.553 | 0.092 | 0.3175 | 0.007 | 0.5 | 1739 | 17 | 1775 | **1783** | **40** | 100 |
|  | D57N033 | 3.89 | 0.079 | 0.2885 | 0.006 | 0.2 | 1610 | 16 | 1646 | **1789** | **49** | 92 |
|  | D57N035 | 4.172 | 0.095 | 0.3125 | 0.006 | 0.5 | 1666 | 19 | 1752 | **1795** | **38** | 98 |
|  | D57N038 | 4.29 | 0.32 | 0.321 | 0.012 | 0.3 | 1710 | 64 | 1815 | **1850** | **160** | 98 |
|  | D57N039 | 3.91 | 0.1 | 0.2901 | 0.006 | 0.1 | 1610 | 22 | 1640 | **1759** | **62** | 93 |
|  | D57N040 | 4.883 | 0.094 | 0.3364 | 0.006 | 0.6 | 1800 | 16 | 1875 | **1886** | **30** | 99 |
|  | D57N041 | 4.39 | 0.11 | 0.3136 | 0.007 | 0.6 | 1709 | 20 | 1757 | **1804** | **43** | 97 |
|  | D57N042 | 4.3 | 0.12 | 0.3188 | 0.006 | 0.3 | 1694 | 23 | 1884 | **1964** | **57** | 96 |
|  | D57N045 | 15.33 | 0.52 | 0.555 | 0.022 | 0.2 | 2836 | 31 | 2838 | **2969** | **58** | 96 |
|  | D57N049 | 5.12 | 0.14 | 0.3362 | 0.007 | 0.3 | 1834 | 24 | 1867 | **1905** | **51** | 98 |
|  | D57N050 | 4.391 | 0.093 | 0.3096 | 0.007 | 0.5 | 1711 | 18 | 1737 | **1802** | **41** | 96 |
|  | D57N051 | 4.77 | 0.21 | 0.318 | 0.013 | 0.0 | 1774 | 37 | 1779 | **1920** | **110** | 93 |
|  | D57N052 | 3.97 | 0.15 | 0.2884 | 0.008 | 0.7 | 1626 | 31 | 1646 | **1752** | **58** | 94 |
|  | D57N053 | 4.095 | 0.099 | 0.2967 | 0.007 | 0.4 | 1655 | 21 | 1680 | **1766** | **50** | 95 |
|  | D57N054 | 4.51 | 0.1 | 0.3151 | 0.006 | 0.3 | 1730 | 19 | 1764 | **1805** | **46** | 98 |
|  | D57N055 | 3.8 | 0.18 | 0.291 | 0.011 | 0.5 | 1607 | 36 | 1791 | **1864** | **85** | 96 |
|  | D57N056 | 4.66 | 0.14 | 0.3197 | 0.008 | 0.3 | 1765 | 25 | 1786 | **1853** | **59** | 96 |
|  | D57N059 | 4 | 0.18 | 0.2927 | 0.01 | 0.1 | 1630 | 38 | 1659 | **1750** | **110** | 95 |
|  | D57N061 | 4.09 | 0.14 | 0.3022 | 0.007 | 0.3 | 1654 | 28 | 1701 | **1755** | **65** | 97 |
|  | D57N063 | 4.65 | 0.11 | 0.311 | 0.008 | 0.3 | 1755 | 20 | 1748 | **1874** | **49** | 93 |
|  | D57N066 | 4.247 | 0.099 | 0.3001 | 0.006 | 0.4 | 1689 | 21 | 1862 | **1939** | **46** | 96 |
|  | D57N075 | 5.06 | 0.094 | 0.3148 | 0.005 | 0.4 | 1828 | 15 | 1765 | **1788** | **34** | 99 |
|  | D57N084 | 5.71 | 0.19 | 0.373 | 0.01 | 0.4 | 1946 | 29 | 1983 | **2126** | **56** | 93 |
|  | D57N086 | 4.72 | 0.13 | 0.3098 | 0.007 | 0.3 | 1780 | 22 | 1741 | **1795** | **50** | 97 |
|  | D57N087 | 3.71 | 0.12 | 0.2685 | 0.008 | 0.3 | 1573 | 27 | 1532 | **1619** | **70** | 95 |
|  | D57N089 | 5.61 | 0.27 | 0.338 | 0.013 | 0.6 | 1913 | 42 | 1877 | **1976** | **66** | 95 |
|  | D57N103 | 5.09 | 0.1 | 0.3026 | 0.004 | 0.3 | 1840 | 17 | 1703 | **1793** | **36** | 95 |
|  | D57N107 | 5.04 | 0.15 | 0.3107 | 0.008 | 0.8 | 1823 | 24 | 1748 | **1760** | **41** | 99 |
|  | D57N111 | 4.83 | 0.12 | 0.2953 | 0.006 | 0.3 | 1790 | 22 | 1667 | **1828** | **45** | 91 |
|  | D57N114 | 4.74 | 0.11 | 0.2994 | 0.005 | 0.2 | 1775 | 20 | 1687 | **1851** | **49** | 91 |
|  | D57N117 | 4.68 | 0.12 | 0.2942 | 0.007 | 0.2 | 1761 | 21 | 1660 | **1784** | **61** | 93 |
|  | D57N119 | 4.36 | 0.12 | 0.284 | 0.005 | 0.1 | 1704 | 24 | 1759 | **1832** | **63** | 96 |
|  | D57N147 | 5.17 | 0.12 | 0.3502 | 0.008 | 0.2 | 1851 | 18 | 1928 | **1897** | **54** | 102 |
|  | D57N148 | 6.42 | 0.24 | 0.3691 | 0.008 | 0.3 | 2023 | 31 | 2022 | **2212** | **60** | 91 |
|  | D57N152 | 4.23 | 0.073 | 0.2929 | 0.004 | 0.3 | 1678 | 14 | 1655 | **1793** | **36** | 92 |
|  | D57N153 | 3.989 | 0.092 | 0.296 | 0.006 | 0.5 | 1635 | 19 | 1690 | **1751** | **44** | 97 |
|  | D57N156 | 4.2 | 0.12 | 0.2791 | 0.007 | 0.3 | 1669 | 24 | 1584 | **1730** | **58** | 92 |
|  | D57N158 | 4.84 | 0.1 | 0.306 | 0.006 | 0.4 | 1794 | 17 | 1722 | **1893** | **40** | 91 |
|  | D57N94 | 4.582 | 0.09 | 0.3029 | 0.005 | 0.3 | 1746 | 17 | 1707 | **1799** | **37** | 95 |
|  | D57N98 | 5.27 | 0.11 | 0.3253 | 0.008 | 0.2 | 1862 | 18 | 1818 | **1865** | **39** | 97 |
|  | D57N99 | 6.17 | 0.12 | 0.3458 | 0.007 | 0.6 | 2001 | 16 | 1915 | **1946** | **36** | 98 |
|  | *Rejected analysis* | | | | | | | | | | |  |
|  | *D57N001* | *4.59* | *0.12* | *0.27* | *0.005* | *0.4* | *1748* | *21* | *1539* | *1848* | *49* | 83 |
|  | *D57N002* | *6.17* | *0.15* | *0.2956* | *0.006* | *0.4* | *2007* | *23* | *1668* | *2230* | *45* | 75 |
|  | *D57N004* | *5.63* | *0.14* | *0.2506* | *0.004* | *0.2* | *1918* | *22* | *1441* | *2345* | *43* | 61 |
|  | *D57N005* | *3.72* | *0.08* | *0.2435* | *0.004* | *0.3* | *1572* | *16* | *1404* | *1716* | *40* | 82 |
|  | *D57N006* | *4.5* | *0.11* | *0.2555* | *0.006* | *0.3* | *1730* | *22* | *1469* | *1996* | *55* | 74 |
|  | *D57N007* | *7.52* | *0.15* | *0.2908* | *0.006* | *0.5* | *2173* | *18* | *1650* | *2686* | *33* | 61 |
|  | *D57N009* | *4.67* | *0.15* | *0.2654* | *0.006* | *0.3* | *1754* | *26* | *1515* | *1974* | *63* | 77 |
|  | *D57N010* | *2.26* | *0.15* | *0.129* | *0.01* | *0.9* | *1202* | *46* | *777* | *2060* | *52* | 38 |
|  | *D57N011* | *2.74* | *0.13* | *0.1732* | *0.007* | *0.7* | *1345* | *34* | *1029* | *1828* | *61* | 56 |
|  | *D57N012* | *7.17* | *0.25* | *0.3476* | *0.007* | *0.2* | *2124* | *31* | *1922* | *2299* | *64* | 84 |
|  | *D57N015* | *1.707* | *0.09* | *0.1049* | *0.003* | *0.7* | *991* | *32* | *642* | *1767* | *40* | 36 |
|  | *D57N016* | *4.112* | *0.1* | *0.2512* | *0.005* | *0.5* | *1653* | *19* | *1443* | *1945* | *35* | 74 |
|  | *D57N017* | *5.79* | *0.14* | *0.3037* | *0.006* | *0.1* | *1947* | *20* | *1709* | *2171* | *45* | 79 |
|  | *D57N018* | *5.164* | *0.09* | *0.285* | *0.006* | *0.2* | *1846* | *15* | *1615* | *2090* | *39* | 77 |
|  | *D57N019* | *3.757* | *0.07* | *0.2155* | *0.004* | *0.3* | *1580* | *15* | *1257* | *2031* | *39* | 62 |
|  | *D57N020* | *3.38* | *0.15* | *0.1933* | *0.007* | *0.7* | *1495* | *34* | *1138* | *2072* | *53* | 55 |
|  | *D57N021* | *1.521* | *0.04* | *0.0789* | *0.002* | *0.3* | *934* | *16* | *490* | *2180* | *46* | 22 |
|  | *D57N023* | *6.41* | *0.12* | *0.1715* | *0.002* | *0.7* | *2030* | *16* | *1020* | *3317* | *23* | 31 |
|  | *D57N024* | *2.695* | *0.06* | *0.1217* | *0.002* | *0.4* | *1326* | *16* | *741* | *2447* | *34* | 30 |
|  | *D57N026* | *3.93* | *0.24* | *0.215* | *0.012* | *0.9* | *1615* | *48* | *1264* | *2153* | *47* | 59 |
|  | *D57N027* | *1.936* | *0.03* | *0.1089* | *0.002* | *0.7* | *1095* | *11* | *666* | *2092* | *24* | 32 |
|  | *D57N029* | *3.52* | *0.14* | *0.2094* | *0.009* | *0.6* | *1528* | *30* | *1224* | *2088* | *78* | 59 |
|  | *D57N030* | *2.529* | *0.1* | *0.1754* | *0.008* | *0.8* | *1274* | *27* | *1040* | *1867* | *39* | 56 |
|  | *D57N031* | *2.552* | *0.05* | *0.1834* | *0.004* | *0.6* | *1287* | *15* | *1085* | *1815* | *31* | 60 |
|  | *D57N032* | *11.75* | *0.63* | *0.3293* | *0.009* | *0.2* | *2565* | *48* | *1833* | *3359* | *83* | 55 |
|  | *D57N034* | *3.39* | *0.32* | *0.233* | *0.022* | *0.5* | *1523* | *59* | *1350* | *1940* | *110* | 70 |
|  | *D57N036* | *3.202* | *0.07* | *0.2051* | *0.005* | *0.3* | *1459* | *17* | *1202* | *2044* | *48* | 59 |
|  | *D57N037* | *5.91* | *0.12* | *0.2602* | *0.007* | *0.5* | *1961* | *18* | *1489* | *2629* | *38* | 57 |
|  | *D57N043* | *1.668* | *0.02* | *0.1185* | *0.002* | *0.5* | *997* | *9.2* | *722* | *1795* | *24* | 40 |
|  | *D57N044* | *2.878* | *0.05* | *0.1929* | *0.004* | *0.4* | *1374* | *13* | *1138* | *1895* | *34* | 60 |
|  | *D57N046* | *4.188* | *0.1* | *0.1756* | *0.004* | *0.6* | *1669* | *19* | *1042* | *2687* | *34* | 39 |
|  | *D57N047* | *4.84* | *0.16* | *0.2645* | *0.006* | *0.0* | *1791* | *28* | *1515* | *2141* | *70* | 71 |
|  | *D57N048* | *4.209* | *0.09* | *0.1734* | *0.003* | *0.5* | *1671* | *18* | *1032* | *2692* | *26* | 38 |
|  | *D57N057* | *4.42* | *0.14* | *0.2261* | *0.007* | *0.3* | *1713* | *26* | *1312* | *2366* | *68* | 55 |
|  | *D57N058* | *6.23* | *0.1* | *0.161* | *0.004* | *0.6* | *2007* | *14* | *962* | *3488* | *26* | 28 |
|  | *D57N060* | *7.92* | *0.21* | *0.333* | *0.011* | *0.3* | *2224* | *23* | *1847* | *2698* | *49* | 68 |
|  | *D57N062* | *3.918* | *0.09* | *0.2316* | *0.006* | *0.4* | *1616* | *20* | *1341* | *2127* | *49* | 63 |
|  | *D57N065* | *5.111* | *0.09* | *0.1781* | *0.003* | *0.6* | *1839* | *16* | *1058* | *2974* | *26* | 36 |
|  | *D57N067* | *4.58* | *0.15* | *0.202* | *0.004* | *0.2* | *1736* | *26* | *1187* | *2523* | *42* | 47 |
|  | *D57N068* | *2.483* | *0.06* | *0.1522* | *0.004* | *0.5* | *1268* | *16* | *913* | *1960* | *41* | 47 |
|  | *D57N069* | *3.769* | *0.09* | *0.2459* | *0.005* | *0.4* | *1584* | *19* | *1419* | *1869* | *42* | 76 |
|  | *D57N070* | *2.978* | *0.08* | *0.199* | *0.005* | *0.7* | *1402* | *20* | *1169* | *1730* | *41* | 68 |
|  | *D57N071* | *4.26* | *0.19* | *0.2649* | *0.009* | *0.6* | *1688* | *35* | *1514* | *1856* | *70* | 82 |
|  | *D57N072* | *2.896* | *0.09* | *0.149* | *0.005* | *0.6* | *1388* | *21* | *900* | *2092* | *56* | 43 |
|  | *D57N073* | *6.69* | *0.24* | *0.2771* | *0.008* | *0.3* | *2071* | *31* | *1575* | *2503* | *71* | 63 |
|  | *D57N074* | *2.886* | *0.07* | *0.134* | *0.002* | *0.6* | *1375* | *19* | *812* | *2299* | *31* | 35 |
|  | *D57N076* | *6.09* | *0.12* | *0.274* | *0.006* | *0.5* | *1987* | *17* | *1559* | *2390* | *30* | 65 |
|  | *D57N077* | *9.24* | *0.14* | *0.3158* | *0.006* | *0.6* | *2362* | *13* | *1767* | *2833* | *25* | 62 |
|  | *D57N078* | *2.523* | *0.1* | *0.1347* | *0.005* | *0.7* | *1269* | *27* | *812* | *2042* | *32* | 40 |
|  | *D57N079* | *8.51* | *0.26* | *0.2776* | *0.008* | *0.4* | *2283* | *28* | *1582* | *2960* | *45* | 53 |
|  | *D57N080* | *5.76* | *0.12* | *0.1696* | *0.005* | *0.6* | *1936* | *18* | *1009* | *3099* | *28* | 33 |
|  | *D57N081* | *7.65* | *0.19* | *0.2843* | *0.006* | *0.5* | *2187* | *23* | *1612* | *2743* | *39* | 59 |
|  | *D57N082* | *8.56* | *0.33* | *0.2891* | *0.008* | *0.1* | *2287* | *35* | *1636* | *2895* | *79* | 57 |
|  | *D57N083* | *5.01* | *0.22* | *0.2017* | *0.006* | *0.3* | *1812* | *35* | *1188* | *2603* | *77* | 46 |
|  | *D57N085* | *3.736* | *0.09* | *0.15* | *0.004* | *0.4* | *1572* | *19* | *900* | *2600* | *32* | 35 |
|  | *D57N088* | *5.49* | *0.12* | *0.3064* | *0.006* | *0.1* | *1896* | *19* | *1722* | *2125* | *44* | 81 |
|  | *D57N90* | *3.26* | *0.04* | *0.1434* | *0.002* | *0.6* | *1472* | *10* | *864* | *2536* | *19* | 34 |
|  | *D57N91* | *5.52* | *0.24* | *0.2912* | *0.006* | *0.7* | *1893* | *38* | *1645* | *2213* | *51* | 74 |
|  | *D57N92* | *7.56* | *0.21* | *0.2048* | *0.007* | *0.8* | *2175* | *26* | *1199* | *3366* | *39* | 36 |
|  | *D57N93* | *3.841* | *0.09* | *0.1995* | *0.003* | *0.4* | *1595* | *19* | *1172* | *2216* | *39* | 53 |
|  | *D57N95* | *2.392* | *0.06* | *0.1483* | *0.003* | *0.6* | *1239* | *18* | *891* | *1829* | *37* | 49 |
|  | *D57N96* | *4.16* | *0.13* | *0.1942* | *0.004* | *0.4* | *1659* | *26* | *1143* | *2365* | *46* | 48 |
|  | *D57N97* | *1.704* | *0.03* | *0.1081* | *0.002* | *0.6* | *1009* | *10* | *662* | *1760* | *25* | 38 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| **AY-01** | AY001 | 4.95 | 0.23 | 0.312 | 0.014 | 0.7 | 1803 | 39 | 1748 | **1805** | **59** | 97 |
|  | AY002 | 5.8 | 0.13 | 0.3561 | 0.008 | 0.3 | 1948 | 20 | 1967 | **1804** | **47** | 109 |
|  | AY003 | 4.05 | 0.21 | 0.276 | 0.014 | 0.4 | 1636 | 40 | 1566 | **1540** | **140** | 102 |
|  | AY004 | 5.74 | 0.14 | 0.3579 | 0.008 | 0.1 | 1966 | 20 | 1905 | **1759** | **75** | 108 |
|  | AY005 | 5.56 | 0.13 | 0.3585 | 0.007 | 0.3 | 1939 | 19 | 1889 | **1714** | **46** | 110 |
|  | AY009 | 5.66 | 0.14 | 0.3605 | 0.007 | 0.5 | 1956 | 20 | 1926 | **1768** | **42** | 109 |
|  | AY010 | 5.73 | 0.15 | 0.3571 | 0.007 | 0.2 | 1960 | 22 | 1962 | **1777** | **47** | 110 |
|  | AY011 | 5.58 | 0.21 | 0.3549 | 0.01 | 0.2 | 1914 | 32 | 1954 | **1806** | **78** | 108 |
|  | AY013 | 4.94 | 0.11 | 0.3332 | 0.007 | 0.4 | 1806 | 19 | 1800 | **1624** | **46** | 111 |
|  | AY014 | 4.24 | 0.14 | 0.2937 | 0.01 | 0.9 | 1678 | 29 | 1659 | **1666** | **37** | 100 |
|  | AY016 | 4.186 | 0.089 | 0.2838 | 0.006 | 0.2 | 1670 | 17 | 1614 | **1661** | **45** | 97 |
|  | AY019 | 4.43 | 0.16 | 0.311 | 0.01 | 0.8 | 1716 | 30 | 1747 | **1720** | **41** | 102 |
|  | AY020 | 5.28 | 0.14 | 0.3428 | 0.007 | 0.3 | 1862 | 22 | 1897 | **1798** | **47** | 106 |
|  | AY021 | 5.81 | 0.17 | 0.3544 | 0.008 | 0.2 | 1944 | 25 | 1893 | **1727** | **60** | 110 |
|  | AY024 | 4.422 | 0.097 | 0.3024 | 0.007 | 0.6 | 1719 | 18 | 1700 | **1691** | **36** | 101 |
|  | AY025 | 4.51 | 0.34 | 0.313 | 0.021 | 0.5 | 1699 | 68 | 1760 | **1744** | **57** | 101 |
|  | AY028 | 5.76 | 0.21 | 0.337 | 0.012 | 0.3 | 1943 | 32 | 1871 | **2042** | **74** | 92 |
|  | AY029 | 4.18 | 0.13 | 0.2853 | 0.008 | 0.5 | 1665 | 26 | 1617 | **1742** | **59** | 93 |
|  | AY030 | 4.6 | 0.14 | 0.309 | 0.01 | 0.6 | 1737 | 27 | 1737 | **1631** | **52** | 106 |
|  | AY031 | 4.2 | 0.14 | 0.279 | 0.011 | 0.4 | 1668 | 27 | 1583 | **1635** | **65** | 97 |
|  | AY037 | 4.84 | 0.19 | 0.306 | 0.012 | 0.8 | 1773 | 31 | 1712 | **1731** | **41** | 99 |
|  | AY038 | 3.99 | 0.16 | 0.2607 | 0.009 | 0.5 | 1631 | 31 | 1491 | **1637** | **70** | 91 |
|  | AY039 | 4.06 | 0.11 | 0.2694 | 0.007 | 0.5 | 1647 | 21 | 1536 | **1668** | **46** | 92 |
|  | AY043 | 4.64 | 0.18 | 0.323 | 0.012 | 0.5 | 1741 | 33 | 1747 | **1844** | **61** | 95 |
|  | AY045 | 5.34 | 0.15 | 0.3417 | 0.009 | 0.5 | 1920 | 23 | 1901 | **1721** | **44** | 110 |
|  | AY049 | 4.34 | 0.13 | 0.3059 | 0.01 | 0.4 | 1701 | 25 | 1715 | **1722** | **49** | 100 |
|  | AY052 | 10.55 | 0.82 | 0.432 | 0.015 | 0.4 | 2427 | 66 | 2318 | **2500** | **110** | 93 |
|  | AY054 | 3.8 | 0.17 | 0.276 | 0.011 | 0.6 | 1599 | 37 | 1580 | **1729** | **58** | 91 |
|  | AY055 | 5.16 | 0.15 | 0.3246 | 0.009 | 0.4 | 1880 | 24 | 1899 | **1766** | **56** | 108 |
|  | AY056 | 5.82 | 0.24 | 0.352 | 0.015 | 0.6 | 1948 | 36 | 1939 | **2041** | **64** | 95 |
|  | AY057 | 3.9 | 0.17 | 0.288 | 0.012 | 0.8 | 1607 | 35 | 1632 | **1639** | **54** | 100 |
|  | AY061 | 4.36 | 0.15 | 0.3012 | 0.009 | 0.7 | 1698 | 29 | 1695 | **1702** | **47** | 100 |
|  | AY062 | 4.63 | 0.21 | 0.308 | 0.015 | 0.9 | 1725 | 41 | 1721 | **1723** | **33** | 100 |
|  | AY063 | 4.61 | 0.16 | 0.311 | 0.01 | 0.8 | 1755 | 30 | 1750 | **1750** | **39** | 100 |
|  | AY064 | 4.01 | 0.15 | 0.2866 | 0.009 | 0.7 | 1635 | 30 | 1621 | **1615** | **48** | 100 |
|  | AY065 | 6.44 | 0.45 | 0.358 | 0.023 | 0.4 | 2035 | 56 | 1970 | **1990** | **110** | 99 |
|  | AY070 | 5.18 | 0.12 | 0.3537 | 0.007 | 0.5 | 1890 | 18 | 1841 | **1684** | **33** | 109 |
|  | AY072 | 4.51 | 0.17 | 0.309 | 0.013 | 0.9 | 1730 | 31 | 1726 | **1725** | **30** | 100 |
|  | AY076 | 4.23 | 0.17 | 0.288 | 0.015 | 0.7 | 1686 | 34 | 1626 | **1738** | **57** | 94 |
|  | AY077 | 4.72 | 0.22 | 0.311 | 0.015 | 0.8 | 1759 | 39 | 1751 | **1757** | **40** | 100 |
|  | AY078 | 4.31 | 0.14 | 0.304 | 0.01 | 0.9 | 1690 | 27 | 1703 | **1706** | **35** | 100 |
|  | AY079 | 4.15 | 0.26 | 0.296 | 0.018 | 0.9 | 1621 | 54 | 1649 | **1702** | **39** | 97 |
|  | AY082 | 4.91 | 0.15 | 0.3255 | 0.009 | 0.8 | 1794 | 26 | 1816 | **1816** | **46** | 100 |
|  | AY084 | 5.53 | 0.16 | 0.3731 | 0.008 | 0.6 | 1934 | 25 | 1933 | **1764** | **46** | 110 |
|  | AY085 | 4 | 0.17 | 0.29 | 0.012 | 0.8 | 1625 | 35 | 1631 | **1678** | **40** | 97 |
|  | AY089 | 3.72 | 0.23 | 0.274 | 0.017 | 0.9 | 1552 | 49 | 1560 | **1652** | **42** | 94 |
|  | AY090 | 4.39 | 0.16 | 0.315 | 0.011 | 0.9 | 1699 | 33 | 1762 | **1699** | **31** | 104 |
|  | AY091 | 4.37 | 0.18 | 0.324 | 0.011 | 0.4 | 1763 | 31 | 1753 | **1597** | **76** | 110 |
|  | AY093 | 5.23 | 0.17 | 0.357 | 0.01 | 0.5 | 1904 | 26 | 1892 | **1742** | **54** | 109 |
|  | AY094 | 4.36 | 0.2 | 0.291 | 0.015 | 0.4 | 1705 | 39 | 1644 | **1722** | **91** | 95 |
|  | AY095 | 3.97 | 0.12 | 0.277 | 0.007 | 0.5 | 1623 | 23 | 1574 | **1716** | **47** | 92 |
|  | AY096 | 4.27 | 0.11 | 0.2982 | 0.008 | 0.6 | 1683 | 21 | 1685 | **1683** | **45** | 100 |
|  | AY099 | 4.51 | 0.2 | 0.305 | 0.014 | 0.8 | 1727 | 38 | 1709 | **1736** | **46** | 98 |
|  | AY101 | 4.65 | 0.24 | 0.317 | 0.015 | 0.8 | 1774 | 40 | 1771 | **1778** | **69** | 100 |
|  | AY105 | 5 | 0.22 | 0.319 | 0.013 | 0.9 | 1813 | 38 | 1775 | **1787** | **35** | 99 |
|  | AY107 | 5.01 | 0.1 | 0.3332 | 0.006 | 0.4 | 1865 | 16 | 1803 | **1642** | **33** | 110 |
|  | AY108 | 6.19 | 0.18 | 0.3724 | 0.009 | 0.4 | 2030 | 25 | 2018 | **1828** | **48** | 110 |
|  | AY110 | 4.8 | 0.16 | 0.3089 | 0.008 | 0.8 | 1786 | 27 | 1732 | **1753** | **35** | 99 |
|  | AY111 | 4.99 | 0.13 | 0.3344 | 0.006 | 0.4 | 1846 | 22 | 1819 | **1655** | **47** | 110 |
|  | AY112 | 4.5 | 0.12 | 0.3009 | 0.008 | 0.6 | 1731 | 24 | 1696 | **1701** | **40** | 100 |
|  | AY116 | 4.17 | 0.1 | 0.289 | 0.006 | 0.5 | 1671 | 21 | 1635 | **1700** | **42** | 96 |
|  | AY117 | 4.87 | 0.24 | 0.331 | 0.01 | 0.2 | 1820 | 38 | 1812 | **1642** | **99** | 110 |
|  | AY118 | 4.33 | 0.12 | 0.2848 | 0.006 | 0.5 | 1700 | 23 | 1619 | **1693** | **54** | 96 |
|  | AY119 | 5.07 | 0.12 | 0.3486 | 0.007 | 0.4 | 1880 | 18 | 1836 | **1670** | **39** | 110 |
|  | AY120 | 4.34 | 0.12 | 0.2858 | 0.007 | 0.4 | 1703 | 21 | 1618 | **1758** | **51** | 92 |
|  | AY122 | 4.62 | 0.11 | 0.3382 | 0.007 | 0.4 | 1791 | 19 | 1866 | **1700** | **42** | 110 |
|  | AY123 | 4.22 | 0.32 | 0.302 | 0.026 | 0.7 | 1668 | 61 | 1690 | **1823** | **92** | 93 |
|  | AY130 | 4.47 | 0.14 | 0.3168 | 0.01 | 0.6 | 1721 | 27 | 1768 | **1811** | **42** | 98 |
|  | AY133 | 5.48 | 0.12 | 0.3671 | 0.007 | 0.2 | 1898 | 18 | 2001 | **1816** | **45** | 110 |
|  | AY134 | 4.23 | 0.25 | 0.296 | 0.015 | 0.8 | 1663 | 46 | 1672 | **1689** | **47** | 99 |
|  | AY136 | 10.28 | 0.31 | 0.503 | 0.014 | 0.6 | 2458 | 30 | 2618 | **2447** | **49** | 107 |
|  | AY138 | 4.88 | 0.12 | 0.3221 | 0.006 | 0.2 | 1824 | 20 | 1842 | **1685** | **45** | 109 |
|  | AY139 | 4.2 | 0.17 | 0.303 | 0.012 | 0.9 | 1664 | 35 | 1700 | **1703** | **40** | 100 |
|  | *Rejected analysis* | | | | | | | | | | |  |
|  | *AY006* | *0.984* | *0.03* | *0.055* | *0.001* | *0.7* | *693* | *13* | *345* | *2000* | *29* | 17 |
|  | *AY007* | *2.674* | *0.09* | *0.1674* | *0.006* | *0.4* | *1320* | *26* | *997* | *1763* | *56* | 57 |
|  | *AY008* | *3.2* | *0.12* | *0.2109* | *0.006* | *0.5* | *1453* | *30* | *1233* | *1701* | *65* | 72 |
|  | *AY012* | *6.27* | *0.16* | *0.425* | *0.01* | *0.1* | *2009* | *24* | *2269* | *1833* | *56* | 124 |
|  | *AY015* | *2.64* | *0.14* | *0.167* | *0.006* | *0.5* | *1319* | *37* | *994* | *1770* | *79* | 56 |
|  | *AY017* | *2.659* | *0.08* | *0.176* | *0.005* | *0.5* | *1314* | *23* | *1044* | *1701* | *56* | 61 |
|  | *AY018* | *2.32* | *0.07* | *0.1383* | *0.004* | *0.6* | *1216* | *21* | *835* | *1933* | *47* | 43 |
|  | *AY022* | *3.95* | *0.47* | *0.262* | *0.018* | *0.3* | *1585* | *45* | *1490* | *1470* | *410* | *101* |
|  | *AY023* | *2.92* | *0.16* | *0.2056* | *0.008* | *0.3* | *1383* | *41* | *1205* | *1650* | *120* | 73 |
|  | *AY026* | *3.66* | *0.12* | *0.228* | *0.007* | *0.5* | *1559* | *26* | *1322* | *1808* | *58* | 73 |
|  | *AY027* | *4.56* | *0.12* | *0.197* | *0.005* | *0.6* | *1737* | *22* | *1158* | *2419* | *39* | 48 |
|  | *AY033* | *3.4* | *0.2* | *0.203* | *0.012* | *0.9* | *1501* | *44* | *1186* | *1968* | *71* | 60 |
|  | *AY034* | *2.31* | *0.11* | *0.1489* | *0.008* | *0.6* | *1210* | *35* | *893* | *1711* | *73* | 52 |
|  | *AY035* | *1.617* | *0.05* | *0.0912* | *0.003* | *0.7* | *978* | *17* | *562* | *1928* | *43* | 29 |
|  | *AY040* | *0.892* | *0.04* | *0.0573* | *0.002* | *0.9* | *646* | *19* | *360* | *1786* | *38* | 20 |
|  | *AY041* | *3.005* | *0.08* | *0.2019* | *0.005* | *0.5* | *1408* | *21* | *1184* | *1711* | *48* | 69 |
|  | *AY042* | *6.25* | *0.14* | *0.4252* | *0.008* | *0.5* | *2012* | *20* | *2280* | *1761* | *42* | 129 |
|  | *AY044* | *2.6* | *0.13* | *0.1697* | *0.008* | *0.7* | *1297* | *35* | *1008* | *1785* | *64* | 56 |
|  | *AY046* | *0.62* | *0.03* | *0.0358* | *0.002* | *0.9* | *483* | *17* | *226* | *2018* | *41* | 11 |
|  | *AY047* | *6.03* | *0.11* | *0.411* | *0.008* | *0.5* | *1981* | *16* | *2216* | *1721* | *35* | 129 |
|  | *AY048* | *5.74* | *0.19* | *0.4097* | *0.009* | *0.3* | *1936* | *28* | *2209* | *1679* | *65* | 132 |
|  | *AY050* | *2.137* | *0.06* | *0.1402* | *0.003* | *0.6* | *1158* | *19* | *845* | *1750* | *46* | 48 |
|  | *AY051* | *5.7* | *0.13* | *0.4004* | *0.007* | *0.5* | *1929* | *20* | *2168* | *1684* | *39* | 129 |
|  | *AY053* | *3.201* | *0.08* | *0.2088* | *0.005* | *0.3* | *1458* | *20* | *1221* | *1874* | *52* | 65 |
|  | *AY058* | *2.99* | *0.16* | *0.204* | *0.01* | *0.8* | *1402* | *40* | *1195* | *1667* | *57* | 72 |
|  | *AY059* | *3.317* | *0.08* | *0.2231* | *0.006* | *0.7* | *1481* | *19* | *1297* | *1725* | *41* | 75 |
|  | *AY060* | *5.54* | *0.14* | *0.3962* | *0.008* | *0.2* | *1907* | *22* | *2148* | *1669* | *52* | 129 |
|  | *AY066* | *1.061* | *0.03* | *0.0637* | *0.002* | *0.6* | *733* | *12* | *398* | *1923* | *40* | 21 |
|  | *AY067* | *2.097* | *0.07* | *0.134* | *0.005* | *0.8* | *1145* | *22* | *809* | *1862* | *41* | 43 |
|  | *AY068* | *5.67* | *0.11* | *0.3941* | *0.008* | *0.6* | *1926* | *17* | *2141* | *1726* | *33* | 124 |
|  | *AY069* | *6.68* | *0.15* | *0.4207* | *0.007* | *0.3* | *2068* | *20* | *2261* | *1821* | *45* | 124 |
|  | *AY071* | *10.62* | *0.28* | *0.53* | *0.012* | *0.4* | *2488* | *25* | *2734* | *2269* | *46* | 120 |
|  | *AY073* | *3.1* | *0.11* | *0.2195* | *0.007* | *0.8* | *1431* | *27* | *1278* | *1620* | *37* | 79 |
|  | *AY074* | *5.57* | *0.15* | *0.3923* | *0.008* | *0.4* | *1913* | *24* | *2134* | *1653* | *53* | 129 |
|  | *AY080* | *1.14* | *0.05* | *0.0744* | *0.003* | *0.9* | *774* | *25* | *462* | *1839* | *32* | 25 |
|  | *AY081* | *6.01* | *0.17* | *0.428* | *0.011* | *0.4* | *1975* | *24* | *2287* | *1716* | *51* | 133 |
|  | *AY083* | *5.7* | *0.11* | *0.4056* | *0.007* | *0.4* | *1931* | *17* | *2195* | *1689* | *38* | 130 |
|  | *AY086* | *6.75* | *0.13* | *0.452* | *0.009* | *0.4* | *2079* | *17* | *2399* | *1825* | *38* | 131 |
|  | *AY087* | *5.85* | *0.14* | *0.4235* | *0.009* | *0.4* | *1950* | *21* | *2276* | *1661* | *42* | 137 |
|  | *AY088* | *5.15* | *0.12* | *0.3598* | *0.008* | *0.7* | *1849* | *20* | *1977* | *1718* | *37* | 115 |
|  | *AY092* | *5.88* | *0.14* | *0.4223* | *0.008* | *0.5* | *1957* | *21* | *2268* | *1666* | *40* | 136 |
|  | *AY097* | *3.203* | *0.09* | *0.2161* | *0.005* | *0.6* | *1455* | *21* | *1260* | *1797* | *39* | 70 |
|  | *AY098* | *7.61* | *0.22* | *0.44* | *0.011* | *0.3* | *2179* | *27* | *2347* | *1982* | *60* | 118 |
|  | *AY100* | *0.409* | *0.02* | *0.0205* | *0.001* | *0.9* | *346* | *12* | *131* | *2331* | *46* | 6 |
|  | *AY102* | *1.025* | *0.03* | *0.0629* | *0.002* | *0.8* | *717* | *12* | *393* | *1937* | *30* | 20 |
|  | *AY103* | *2.801* | *0.07* | *0.188* | *0.005* | *0.5* | *1356* | *19* | *1110* | *1670* | *47* | 66 |
|  | *AY104* | *5.04* | *0.17* | *0.3608* | *0.009* | *0.4* | *1829* | *28* | *1990* | *1542* | *69* | 129 |
|  | *AY106* | *3.59* | *0.15* | *0.2196* | *0.008* | *0.7* | *1537* | *32* | *1277* | *1791* | *50* | 71 |
|  | *AY109* | *4.3* | *0.22* | *0.2215* | *0.01* | *0.9* | *1690* | *41* | *1294* | *2096* | *43* | 62 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| **JR-01** | JR001 | 5.74 | 0.17 | 0.354 | 0.012 | 0.7 | 1936 | 25 | 1942 | **2036** | **54** | 95 |
|  | JR004 | 3.802 | 0.084 | 0.2814 | 0.005 | 0.2 | 1591 | 18 | 1597 | **1585** | **51** | 101 |
|  | JR005 | 3.399 | 0.099 | 0.2564 | 0.006 | 0.4 | 1504 | 24 | 1569 | **1702** | **54** | 92 |
|  | JR008 | 4.65 | 0.12 | 0.3044 | 0.007 | 0.3 | 1761 | 21 | 1714 | **1805** | **47** | 95 |
|  | JR009 | 3.88 | 0.1 | 0.2765 | 0.006 | 0.4 | 1612 | 21 | 1670 | **1765** | **47** | 95 |
|  | JR016 | 3.22 | 0.15 | 0.2641 | 0.008 | 0.5 | 1476 | 40 | 1607 | **1580** | **86** | 102 |
|  | JR020 | 3.556 | 0.094 | 0.2652 | 0.005 | 0.2 | 1543 | 20 | 1518 | **1519** | **51** | 100 |
|  | JR024 | 4.49 | 0.16 | 0.3002 | 0.01 | 0.5 | 1721 | 30 | 1696 | **1752** | **62** | 97 |
|  | JR028 | 4.16 | 0.14 | 0.2918 | 0.008 | 0.3 | 1658 | 28 | 1653 | **1659** | **73** | 100 |
|  | JR031 | 4.3 | 0.11 | 0.2938 | 0.006 | 0.5 | 1695 | 20 | 1759 | **1814** | **46** | 97 |
|  | JR035 | 3.94 | 0.16 | 0.2868 | 0.007 | 0.3 | 1614 | 32 | 1772 | **1880** | **75** | 94 |
|  | JR040 | 4.257 | 0.098 | 0.289 | 0.006 | 0.2 | 1685 | 19 | 1635 | **1746** | **51** | 94 |
|  | JR041 | 5 | 0.1 | 0.3266 | 0.008 | 0.3 | 1826 | 17 | 1822 | **1836** | **45** | 99 |
|  | JR051 | 3.513 | 0.08 | 0.2632 | 0.006 | 0.4 | 1529 | 18 | 1601 | **1711** | **49** | 94 |
|  | JR052 | 4.16 | 0.11 | 0.2951 | 0.006 | 0.4 | 1667 | 22 | 1770 | **1781** | **45** | 99 |
|  | JR053 | 3.92 | 0.11 | 0.2889 | 0.007 | 0.4 | 1621 | 23 | 1637 | **1758** | **56** | 93 |
|  | JR054 | 4.05 | 0.21 | 0.2906 | 0.009 | 0.0 | 1635 | 43 | 1640 | **1780** | **120** | 92 |
|  | JR056 | 4.31 | 0.13 | 0.2918 | 0.009 | 0.5 | 1694 | 24 | 1648 | **1764** | **57** | 93 |
|  | JR057 | 3.74 | 0.11 | 0.2815 | 0.006 | 0.3 | 1578 | 24 | 1596 | **1722** | **61** | 93 |
|  | JR060 | 4.088 | 0.086 | 0.2814 | 0.005 | 0.4 | 1652 | 18 | 1597 | **1685** | **41** | 95 |
|  | JR067 | 15.09 | 0.29 | 0.5284 | 0.01 | 0.5 | 2818 | 18 | 2734 | **2862** | **31** | 96 |
|  | JR069 | 4.88 | 0.11 | 0.3111 | 0.005 | 0.4 | 1799 | 19 | 1744 | **1812** | **37** | 96 |
|  | JR073 | 4.71 | 0.11 | 0.307 | 0.006 | 0.1 | 1769 | 20 | 1724 | **1754** | **50** | 98 |
|  | JR075 | 5.1 | 0.3 | 0.33 | 0.013 | 0.2 | 1836 | 51 | 1839 | **1880** | **130** | 98 |
|  | JR076 | 4.16 | 0.16 | 0.2842 | 0.007 | 0.4 | 1673 | 31 | 1611 | **1737** | **65** | 93 |
|  | JR077 | 4.8 | 0.17 | 0.3034 | 0.009 | 0.4 | 1789 | 29 | 1705 | **1774** | **67** | 96 |
|  | JR078 | 4.58 | 0.14 | 0.2969 | 0.007 | 0.4 | 1740 | 27 | 1676 | **1780** | **52** | 94 |
|  | JR079 | 4.69 | 0.14 | 0.306 | 0.007 | 0.2 | 1764 | 24 | 1721 | **1762** | **60** | 98 |
|  | JR085 | 4.33 | 0.18 | 0.2986 | 0.009 | 0.3 | 1698 | 36 | 1683 | **1735** | **87** | 97 |
|  | JR093 | 4.8 | 0.15 | 0.3052 | 0.006 | 0.3 | 1783 | 26 | 1715 | **1818** | **57** | 94 |
|  | JR094 | 4.32 | 0.15 | 0.304 | 0.014 | 0.3 | 1698 | 28 | 1719 | **1805** | **70** | 95 |
|  | JR095 | 4.742 | 0.097 | 0.3131 | 0.006 | 0.4 | 1771 | 17 | 1759 | **1782** | **36** | 99 |
|  | JR115 | 3.39 | 0.11 | 0.2639 | 0.006 | 0.3 | 1501 | 26 | 1513 | **1653** | **68** | 92 |
|  | JR116 | 3.68 | 0.12 | 0.2692 | 0.006 | 0.1 | 1571 | 27 | 1532 | **1677** | **73** | 91 |
|  | JR117 | 4.51 | 0.2 | 0.2938 | 0.008 | 0.3 | 1738 | 36 | 1658 | **1750** | **76** | 95 |
|  | JR123 | 4.74 | 0.14 | 0.3011 | 0.007 | 0.4 | 1771 | 24 | 1703 | **1825** | **54** | 93 |
|  | JR135 | 6.91 | 0.14 | 0.3576 | 0.009 | 0.3 | 2104 | 18 | 1972 | **2165** | **47** | 91 |
|  | JR136 | 3.71 | 0.12 | 0.2722 | 0.007 | 0.4 | 1572 | 25 | 1647 | **1791** | **49** | 92 |
|  | JR137 | 4.6 | 0.11 | 0.3015 | 0.006 | 0.4 | 1750 | 20 | 1697 | **1769** | **43** | 96 |
|  | JR139 | 4.7 | 0.13 | 0.3111 | 0.006 | 0.4 | 1761 | 23 | 1744 | **1736** | **50** | 100 |
|  | JR143 | 4.02 | 0.16 | 0.285 | 0.007 | 0.6 | 1639 | 31 | 1713 | **1853** | **54** | 92 |
|  | JR144 | 4.45 | 0.12 | 0.2958 | 0.006 | 0.3 | 1718 | 22 | 1669 | **1738** | **49** | 96 |
|  | JR145 | 3.64 | 0.2 | 0.269 | 0.012 | 0.3 | 1553 | 45 | 1551 | **1660** | **110** | 93 |
|  | JR146 | 4.53 | 0.14 | 0.295 | 0.008 | 0.6 | 1731 | 25 | 1664 | **1811** | **47** | 92 |
|  | JR147 | 4.79 | 0.12 | 0.2947 | 0.007 | 0.3 | 1784 | 21 | 1667 | **1779** | **54** | 94 |
|  | JR153 | 4.76 | 0.18 | 0.292 | 0.011 | 0.3 | 1772 | 33 | 1656 | **1794** | **78** | 92 |
|  | *Rejected analysis* | | | | | | | | | | |  |
|  | *JR002* | *0.643* | *0.01* | *0.031* | *6E-04* | *0.6* | *504* | *7.3* | *197* | *2367* | *28* | 8 |
|  | *JR003* | *0.688* | *0.02* | *0.041* | *1E-03* | *0.6* | *530* | *10* | *259* | *2010* | *39* | 13 |
|  | *JR006* | *1.669* | *0.03* | *0.0481* | *0.001* | *0.7* | *997* | *10* | *303* | *3193* | *24* | 9 |
|  | *JR007* | *7.34* | *0.22* | *0.3625* | *0.01* | *0.7* | *2153* | *26* | *1999* | *2338* | *39* | 86 |
|  | *JR010* | *0.86* | *0.02* | *0.0509* | *0.001* | *0.7* | *630* | *13* | *320* | *2009* | *38* | 16 |
|  | *JR011* | *1.08* | *0.03* | *0.0675* | *0.001* | *0.6* | *745* | *15* | *421* | *1863* | *45* | 23 |
|  | *JR012* | *0.449* | *0.01* | *0.0221* | *5E-04* | *0.5* | *376* | *7.6* | *141* | *2287* | *37* | 6 |
|  | *JR013* | *0.458* | *0.01* | *0.0238* | *7E-04* | *0.6* | *381* | *8.9* | *152* | *2178* | *37* | 7 |
|  | *JR014* | *0.884* | *0.02* | *0.054* | *0.001* | *0.5* | *641* | *10* | *340* | *1875* | *37* | 18 |
|  | *JR015* | *2.64* | *0.11* | *0.1355* | *0.006* | *0.8* | *1307* | *32* | *825* | *2144* | *53* | 38 |
|  | *JR017* | *8.18* | *0.25* | *0.3398* | *0.009* | *0.7* | *2259* | *28* | *1884* | *2511* | *37* | 75 |
|  | *JR018* | *4.19* | *0.1* | *0.2553* | *0.006* | *0.4* | *1668* | *20* | *1464* | *1843* | *50* | 79 |
|  | *JR019* | *0.433* | *0.01* | *0.0253* | *7E-04* | *0.6* | *368* | *9.2* | *161* | *2008* | *44* | 8 |
|  | *JR021* | *2.683* | *0.07* | *0.1197* | *0.002* | *0.6* | *1323* | *20* | *729* | *2400* | *38* | 30 |
|  | *JR022* | *3.077* | *0.09* | *0.189* | *0.006* | *0.6* | *1424* | *22* | *1115* | *1824* | *48* | 61 |
|  | *JR023* | *0.336* | *0.02* | *0.0186* | *8E-04* | *0.9* | *294* | *13* | *120* | *2082* | *36* | 6 |
|  | *JR025* | *0.412* | *0.01* | *0.0255* | *5E-04* | *0.6* | *350* | *7.3* | *162* | *1917* | *36* | 8 |
|  | *JR026* | *0.593* | *0.01* | *0.0397* | *7E-04* | *0.6* | *474* | *8.5* | *251* | *1766* | *34* | 14 |
|  | *JR027* | *2.274* | *0.09* | *0.1336* | *0.004* | *0.6* | *1198* | *29* | *811* | *1957* | *61* | 41 |
|  | *JR029* | *1.478* | *0.06* | *0.0967* | *0.004* | *0.4* | *918* | *24* | *594* | *1902* | *78* | 31 |
|  | *JR030* | *0.24* | *0.01* | *0.0126* | *6E-04* | *0.8* | *217* | *8.9* | *80.5* | *2242* | *40* | 4 |
|  | *JR032* | *3.036* | *0.09* | *0.2207* | *0.006* | *0.2* | *1415* | *24* | *1283* | *1558* | *64* | 82 |
|  | *JR034* | *0.46* | *0.02* | *0.0297* | *0.002* | *0.8* | *382* | *16* | *189* | *1847* | *46* | 10 |
|  | *JR036* | *2.042* | *0.05* | *0.0683* | *0.002* | *0.5* | *1129* | *15* | *427* | *2930* | *35* | 15 |
|  | *JR037* | *3.266* | *0.07* | *0.1795* | *0.003* | *0.5* | *1473* | *17* | *1063* | *2124* | *37* | 50 |
|  | *JR039* | *1.155* | *0.04* | *0.0725* | *0.003* | *0.7* | *779* | *17* | *451* | *1882* | *46* | 24 |
|  | *JR042* | *3.585* | *0.07* | *0.0978* | *0.002* | *0.5* | *1545* | *14* | *601* | *3330* | *35* | 18 |
|  | *JR043* | *2.807* | *0.08* | *0.1287* | *0.003* | *0.7* | *1355* | *22* | *780* | *2500* | *37* | 31 |
|  | *JR044* | *0.967* | *0.04* | *0.06* | *0.003* | *0.7* | *688* | *21* | *375* | *1901* | *51* | 20 |
|  | *JR045* | *1.231* | *0.04* | *0.0828* | *0.002* | *0.4* | *814* | *16* | *513* | *1774* | *47* | 29 |
|  | *JR046* | *0.526* | *0.02* | *0.0306* | *0.001* | *0.5* | *428* | *9.8* | *194* | *2055* | *37* | 9 |
|  | *JR047* | *1.696* | *0.05* | *0.0566* | *0.001* | *0.7* | *1008* | *18* | *355* | *2985* | *30* | 12 |
|  | *JR048* | *1.228* | *0.04* | *0.0844* | *0.003* | *0.6* | *819* | *18* | *522* | *1770* | *52* | 29 |
|  | *JR050* | *2.059* | *0.08* | *0.1564* | *0.005* | *0.5* | *1137* | *25* | *936* | *1605* | *61* | 58 |
|  | *JR055* | *1.09* | *0.04* | *0.0645* | *0.002* | *0.5* | *746* | *18* | *403* | *2012* | *51* | 20 |
|  | *JR058* | *3.29* | *0.14* | *0.2133* | *0.009* | *0.7* | *1471* | *35* | *1248* | *1798* | *56* | 69 |
|  | *JR059* | *0.603* | *0.02* | *0.0351* | *0.001* | *0.8* | *477* | *12* | *222* | *2023* | *36* | 11 |
|  | *JR061* | *3.64* | *0.12* | *0.2275* | *0.008* | *0.5* | *1554* | *27* | *1319* | *1822* | *65* | 72 |
|  | *JR062* | *2.46* | *0.14* | *0.1648* | *0.009* | *0.8* | *1252* | *43* | *990* | *1827* | *66* | 54 |
|  | *JR063* | *3.386* | *0.09* | *0.1646* | *0.004* | *0.4* | *1497* | *21* | *984* | *2243* | *51* | 44 |
|  | *JR064* | *2.81* | *0.89* | *0.15* | *0.019* | *1.0* | *1217* | *42* | *947* | *1620* | *110* | 58 |
|  | *JR065* | *3.64* | *0.18* | *0.1548* | *0.007* | *0.9* | *1555* | *41* | *925* | *2471* | *40* | 37 |
|  | *JR066* | *0.556* | *0.01* | *0.0165* | *3E-04* | *0.4* | *448* | *5.4* | *105* | *3144* | *27* | 3 |
|  | *JR068* | *0.645* | *0.02* | *0.0386* | *0.001* | *0.2* | *505* | *15* | *244* | *1871* | *77* | 13 |
|  | *JR070* | *7.36* | *0.36* | *0.344* | *0.011* | *0.1* | *2143* | *44* | *1901* | *2440* | *110* | 78 |
|  | *JR071* | *3.806* | *0.08* | *0.2346* | *0.005* | *0.5* | *1591* | *18* | *1357* | *1874* | *36* | 72 |
|  | *JR072* | *1.337* | *0.07* | *0.0814* | *0.005* | *0.6* | *858* | *29* | *504* | *1853* | *84* | 27 |
|  | *JR074* | *2.759* | *0.08* | *0.1483* | *0.005* | *0.3* | *1342* | *21* | *891* | *2008* | *64* | 44 |
|  | *JR080* | *2.105* | *0.06* | *0.1387* | *0.003* | *0.4* | *1151* | *19* | *837* | *1721* | *60* | 49 |
|  | *JR081* | *2.31* | *0.15* | *0.1385* | *0.008* | *0.7* | *1215* | *45* | *843* | *1882* | *81* | 45 |
|  | *JR082* | *4.67* | *0.12* | *0.2766* | *0.006* | *0.3* | *1761* | *22* | *1572* | *1941* | *54* | 81 |
|  | *JR083* | *1.741* | *0.04* | *0.109* | *0.002* | *0.5* | *1021* | *15* | *667* | *1837* | *39* | 36 |
|  | *JR084* | *2.04* | *0.11* | *0.1209* | *0.006* | *0.5* | *1129* | *38* | *735* | *1903* | *77* | 39 |
|  | *JR086* | *0.683* | *0.03* | *0.0236* | *0.002* | *0.9* | *524* | *15* | *150* | *2904* | *43* | 5 |
|  | *JR087* | *1.147* | *0.05* | *0.0712* | *0.003* | *0.9* | *768* | *25* | *442* | *1913* | *37* | 23 |
|  | *JR088* | *1.095* | *0.06* | *0.067* | *0.004* | *1.0* | *746* | *31* | *416* | *1941* | *34* | 21 |
|  | *JR089* | *1.087* | *0.06* | *0.0617* | *0.003* | *0.9* | *739* | *28* | *387* | *2068* | *33* | 19 |
|  | *JR090* | *3.44* | *0.18* | *0.2289* | *0.009* | *0.3* | *1503* | *42* | *1327* | *1779* | *98* | 75 |
|  | *JR091* | *1.227* | *0.03* | *0.0756* | *0.002* | *0.3* | *811* | *15* | *470* | *1828* | *58* | 26 |
|  | *JR092* | *2.566* | *0.04* | *0.0461* | *9E-04* | *0.7* | *1288* | *12* | *290* | *3904* | *19* | 7 |
|  | *JR096* | *0.71* | *0.04* | *0.0385* | *0.002* | *0.6* | *543* | *21* | *243* | *1981* | *85* | 12 |
|  | *JR097* | *0.754* | *0.02* | *0.0151* | *4E-04* | *0.6* | *571* | *9.1* | *96.5* | *3691* | *33* | 3 |
|  | *JR098* | *2.34* | *0.12* | *0.1459* | *0.006* | *0.7* | *1232* | *36* | *877* | *1818* | *62* | 48 |
|  | *JR099* | *0.837* | *0.03* | *0.04* | *9E-04* | *0.5* | *618* | *14* | *253* | *2285* | *42* | 11 |
|  | *JR100* | *2.68* | *0.13* | *0.1667* | *0.007* | *0.7* | *1324* | *35* | *993* | *1883* | *76* | 53 |
|  | *JR101* | *5.27* | *0.15* | *0.2533* | *0.009* | *0.6* | *1860* | *25* | *1454* | *2407* | *56* | 60 |
|  | *JR102* | *3.08* | *0.14* | *0.2213* | *0.009* | *0.5* | *1424* | *34* | *1287* | *1783* | *76* | 72 |
|  | *JR103* | *3.71* | *0.19* | *0.1554* | *0.005* | *0.5* | *1584* | *40* | *930* | *2581* | *71* | 36 |
|  | *JR104* | *3.43* | *0.1* | *0.2215* | *0.005* | *0.6* | *1505* | *24* | *1288* | *1786* | *44* | 72 |
|  | *JR105* | *1.902* | *0.08* | *0.1197* | *0.005* | *0.5* | *1078* | *27* | *728* | *1719* | *69* | 42 |
|  | *JR106* | *0.749* | *0.03* | *0.0396* | *0.001* | *0.5* | *569* | *15* | *250* | *2061* | *62* | 12 |
|  | *JR107* | *1.52* | *0.36* | *0.0563* | *0.003* | *0.9* | *725* | *49* | *348* | *2111* | *84* | 16 |
|  | *JR108* | *2.089* | *0.08* | *0.1519* | *0.005* | *0.5* | *1142* | *26* | *910* | *1606* | *57* | 57 |
|  | *JR109* | *2.211* | *0.08* | *0.1292* | *0.004* | *0.4* | *1179* | *26* | *782* | *1915* | *55* | 41 |
|  | *JR1100* | *0.713* | *0.02* | *0.0334* | *8E-04* | *0.5* | *547* | *11* | *212* | *2305* | *41* | 9 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| **SOU-01** | SOU001 | 4.91 | 0.14 | 0.314 | 0.009 | 0.7 | 1806 | 23 | 1759 | **1753** | **39** | 100 |
|  | SOU002 | 4.01 | 0.15 | 0.2835 | 0.008 | 0.6 | 1628 | 31 | 1603 | **1608** | **62** | 100 |
|  | SOU009 | 4.82 | 0.2 | 0.3031 | 0.009 | 0.5 | 1782 | 34 | 1703 | **1745** | **81** | 98 |
|  | SOU010 | 4.08 | 0.14 | 0.2731 | 0.008 | 0.5 | 1650 | 29 | 1561 | **1642** | **66** | 95 |
|  | SOU011 | 4.95 | 0.18 | 0.3014 | 0.008 | 0.4 | 1809 | 31 | 1701 | **1800** | **56** | 95 |
|  | SOU014 | 3.8 | 0.15 | 0.2676 | 0.007 | 0.4 | 1588 | 31 | 1525 | **1574** | **72** | 97 |
|  | SOU015 | 15.22 | 0.46 | 0.517 | 0.016 | 0.5 | 2825 | 27 | 2664 | **2824** | **48** | 94 |
|  | SOU018 | 4.75 | 0.36 | 0.293 | 0.014 | 0.1 | 1756 | 55 | 1651 | **1794** | **98** | 92 |
|  | SOU019 | 3.86 | 0.12 | 0.2629 | 0.007 | 0.3 | 1598 | 25 | 1502 | **1608** | **64** | 93 |
|  | SOU021 | 5.39 | 0.14 | 0.3365 | 0.008 | 0.5 | 1880 | 22 | 1867 | **1872** | **50** | 100 |
|  | SOU022 | 4.23 | 0.15 | 0.2869 | 0.01 | 0.4 | 1671 | 29 | 1630 | **1687** | **61** | 97 |
|  | SOU024 | 5.02 | 0.18 | 0.3109 | 0.008 | 0.3 | 1825 | 29 | 1742 | **1828** | **72** | 95 |
|  | SOU025 | 4.9 | 0.12 | 0.3131 | 0.006 | 0.0 | 1796 | 21 | 1762 | **1776** | **42** | 99 |
|  | SOU026 | 4.47 | 0.15 | 0.301 | 0.007 | 0.5 | 1728 | 24 | 1693 | **1723** | **50** | 98 |
|  | SOU027 | 4.66 | 0.12 | 0.3018 | 0.008 | 0.3 | 1758 | 22 | 1701 | **1721** | **55** | 99 |
|  | SOU028 | 3.83 | 0.15 | 0.2672 | 0.008 | 0.2 | 1579 | 28 | 1522 | **1606** | **66** | 95 |
|  | SOU029 | 4.77 | 0.24 | 0.3211 | 0.01 | 0.2 | 1805 | 27 | 1788 | **1790** | **61** | 100 |
|  | SOU030 | 4.59 | 0.12 | 0.3086 | 0.008 | 0.4 | 1749 | 21 | 1730 | **1728** | **44** | 100 |
|  | SOU032 | 4.29 | 0.31 | 0.284 | 0.013 | 0.4 | 1675 | 45 | 1605 | **1681** | **81** | 95 |
|  | SOU035 | 3.52 | 0.15 | 0.2642 | 0.009 | 0.5 | 1516 | 32 | 1510 | **1649** | **66** | 92 |
|  | SOU040 | 3.6 | 0.17 | 0.2696 | 0.01 | 0.6 | 1559 | 38 | 1583 | **1715** | **78** | 92 |
|  | SOU041 | 3.82 | 0.27 | 0.283 | 0.02 | 0.7 | 1581 | 45 | 1690 | **1821** | **86** | 93 |
|  | SOU042 | 3.63 | 0.095 | 0.2664 | 0.006 | 0.3 | 1553 | 21 | 1520 | **1576** | **49** | 96 |
|  | SOU043 | 4.52 | 0.15 | 0.3091 | 0.007 | 0.7 | 1727 | 29 | 1732 | **1746** | **51** | 99 |
|  | SOU044 | 3.431 | 0.082 | 0.2589 | 0.005 | 0.1 | 1512 | 19 | 1482 | **1550** | **52** | 96 |
|  | SOU046 | 4.53 | 0.14 | 0.3 | 0.008 | 0.4 | 1732 | 28 | 1688 | **1766** | **59** | 96 |
|  | SOU049 | 4.51 | 0.15 | 0.2905 | 0.008 | 0.6 | 1726 | 29 | 1640 | **1765** | **54** | 93 |
|  | SOU052 | 4.11 | 0.18 | 0.278 | 0.014 | 0.3 | 1667 | 37 | 1581 | **1710** | **84** | 92 |
|  | SOU054 | 4.51 | 0.16 | 0.2887 | 0.01 | 0.4 | 1737 | 29 | 1631 | **1761** | **69** | 93 |
|  | SOU063 | 9.45 | 0.33 | 0.439 | 0.013 | 0.5 | 2376 | 32 | 2338 | **2398** | **51** | 97 |
|  | SOU064 | 3.86 | 0.15 | 0.279 | 0.007 | 0.5 | 1608 | 33 | 1682 | **1830** | **48** | 92 |
|  | SOU070 | 4.52 | 0.12 | 0.3013 | 0.007 | 0.5 | 1732 | 22 | 1699 | **1737** | **45** | 98 |
|  | SOU072 | 5.09 | 0.16 | 0.3223 | 0.007 | 0.2 | 1827 | 27 | 1798 | **1808** | **60** | 99 |
|  | SOU073 | 4.52 | 0.13 | 0.2942 | 0.008 | 0.4 | 1728 | 23 | 1664 | **1731** | **53** | 96 |
|  | SOU074 | 3.934 | 0.089 | 0.2696 | 0.006 | 0.5 | 1618 | 19 | 1537 | **1679** | **41** | 92 |
|  | SOU077 | 4.89 | 0.12 | 0.3107 | 0.006 | 0.3 | 1799 | 20 | 1742 | **1782** | **50** | 98 |
|  | SOU078 | 3.96 | 0.14 | 0.2822 | 0.009 | 0.5 | 1620 | 28 | 1597 | **1733** | **49** | 92 |
|  | SOU082 | 4.97 | 0.19 | 0.316 | 0.008 | 0.4 | 1798 | 31 | 1772 | **1774** | **58** | 100 |
|  | SOU083 | 4.53 | 0.13 | 0.3026 | 0.007 | 0.6 | 1734 | 23 | 1701 | **1704** | **41** | 100 |
|  | SOU084 | 5.58 | 0.19 | 0.342 | 0.009 | 0.7 | 1902 | 30 | 1898 | **1880** | **40** | 101 |
|  | SOU087 | 3.46 | 0.12 | 0.2665 | 0.007 | 0.0 | 1519 | 28 | 1518 | **1579** | **76** | 96 |
|  | SOU089 | 3.98 | 0.2 | 0.28 | 0.01 | 0.7 | 1622 | 42 | 1627 | **1777** | **55** | 92 |
|  | SOU092 | 4.52 | 0.11 | 0.2984 | 0.005 | 0.5 | 1736 | 21 | 1685 | **1713** | **39** | 98 |
|  | SOU096 | 5.89 | 0.16 | 0.33 | 0.008 | 0.3 | 1955 | 23 | 1843 | **2001** | **55** | 92 |
|  | SOU097 | 16.89 | 0.46 | 0.541 | 0.014 | 0.5 | 2928 | 26 | 2793 | **2939** | **42** | 95 |
|  | SOU111 | 4.32 | 0.15 | 0.2837 | 0.007 | 0.6 | 1691 | 29 | 1614 | **1715** | **47** | 94 |
|  | SOU119 | 4.29 | 0.15 | 0.2951 | 0.007 | 0.5 | 1683 | 28 | 1669 | **1716** | **66** | 97 |
|  | SOU121 | 4.92 | 0.13 | 0.3043 | 0.006 | 0.1 | 1793 | 20 | 1710 | **1755** | **43** | 97 |
|  | SOU125 | 4.67 | 0.15 | 0.2891 | 0.008 | 0.3 | 1752 | 26 | 1638 | **1783** | **65** | 92 |
|  | SOU126 | 4.96 | 0.15 | 0.303 | 0.006 | 0.4 | 1816 | 26 | 1708 | **1806** | **56** | 95 |
|  | SOU132 | 3.85 | 0.13 | 0.2653 | 0.007 | 0.4 | 1597 | 28 | 1515 | **1583** | **63** | 96 |
|  | SOU134 | 5.01 | 0.11 | 0.3134 | 0.006 | 0.3 | 1819 | 19 | 1755 | **1767** | **47** | 99 |
|  | SOU135 | 3.91 | 0.2 | 0.2746 | 0.009 | 0.1 | 1637 | 41 | 1560 | **1606** | **99** | 97 |
|  | *Rejected analysis* | | | | | | | | | | |  |
|  | *SOU003* | *1.82* | *0.07* | *0.1212* | *0.004* | *0.5* | *1043* | *22* | *736* | *1695* | *40* | 43 |
|  | *SOU004* | *1.55* | *0.12* | *0.1001* | *0.008* | *0.4* | *940* | *48* | *613* | *1670* | *100* | 37 |
|  | *SOU005* | *3.47* | *0.11* | *0.2208* | *0.005* | *0.4* | *1513* | *24* | *1285* | *1712* | *58* | 75 |
|  | *SOU006* | *2.341* | *0.1* | *0.1483* | *0.006* | *0.1* | *1235* | *36* | *890* | *1717* | *72* | 52 |
|  | *SOU007* | *3.75* | *0.2* | *0.244* | *0.013* | *0.7* | *1580* | *40* | *1404* | *1677* | *99* | 84 |
|  | *SOU008.* | *3.35* | *0.16* | *0.1905* | *0.006* | *0.6* | *1478* | *25* | *1129* | *1927* | *81* | 59 |
|  | *SOU012* | *2.098* | *0.09* | *0.1273* | *0.005* | *0.8* | *1146* | *29* | *780* | *1764* | *49* | 44 |
|  | *SOU013* | *2.74* | *0.23* | *0.1452* | *0.007* | *0.8* | *1317* | *60* | *873* | *2013* | *85* | 43 |
|  | *SOU016* | *3.68* | *0.12* | *0.2321* | *0.006* | *0.4* | *1555* | *22* | *1342* | *1790* | *49* | 75 |
|  | *SOU017* | *2.319* | *0.05* | *0.1517* | *0.003* | *0.5* | *1216* | *14* | *910* | *1695* | *31* | 54 |
|  | *SOU020* | *2.719* | *0.08* | *0.1552* | *0.004* | *0.5* | *1333* | *20* | *929* | *1977* | *48* | 47 |
|  | *SOU023* | *5.86* | *0.4* | *0.2158* | *0.008* | *0.6* | *1931* | *60* | *1257* | *2800* | *88* | 45 |
|  | *SOU031* | *3.755* | *0.09* | *0.2346* | *0.004* | *0.3* | *1579* | *21* | *1357* | *1872* | *45* | 72 |
|  | *SOU033* | *2.13* | *0.13* | *0.1556* | *0.008* | *0.0* | *1147* | *40* | *930* | *1541* | *94* | 60 |
|  | *SOU061* | *4.12* | *0.15* | *0.2402* | *0.007* | *0.3* | *1642* | *30* | *1385* | *1979* | *49* | 70 |
|  | *SOU062* | *2.121* | *0.05* | *0.1491* | *0.002* | *0.8* | *1152* | *16* | *895* | *1702* | *31* | 53 |
|  | *SOU065* | *1.63* | *0.03* | *0.114* | *0.002* | *0.4* | *982* | *13* | *696* | *1682* | *41* | 41 |
|  | *SOU066* | *3.569* | *0.09* | *0.1686* | *0.003* | *0.7* | *1537* | *20* | *1005* | *2408* | *25* | 42 |
|  | *SOU067* | *3.5* | *0.15* | *0.2219* | *0.01* | *0.4* | *1523* | *33* | *1290* | *1880* | *82* | 69 |
|  | *SOU068* | *3.36* | *0.14* | *0.2314* | *0.008* | *0.7* | *1491* | *33* | *1340* | *1694* | *53* | 79 |
|  | *SOU069* | *5.23* | *0.15* | *0.2911* | *0.01* | *0.6* | *1868* | *26* | *1644* | *2074* | *56* | 79 |
|  | *SOU071* | *4.225* | *0.1* | *0.262* | *0.006* | *0.6* | *1674* | *19* | *1500* | *1893* | *36* | 79 |
|  | *SOU122* | *2.755* | *0.09* | *0.1795* | *0.005* | *0.5* | *1340* | *23* | *1063* | *1685* | *50* | 63 |
|  | *SOU123* | *4.37* | *0.15* | *0.27* | *0.009* | *0.6* | *1705* | *27* | *1538* | *1803* | *56* | 85 |
|  | *SOU124* | *2.726* | *0.07* | *0.183* | *0.004* | *0.5* | *1336* | *21* | *1082* | *1700* | *43* | 64 |
|  | *SOU127* | *3.53* | *0.1* | *0.2205* | *0.005* | *0.5* | *1531* | *24* | *1283* | *1781* | *41* | 72 |
|  | *SOU128* | *3.056* | *0.07* | *0.1501* | *0.003* | *0.7* | *1421* | *18* | *901* | *2209* | *34* | 41 |
|  | *SOU129* | *1.609* | *0.07* | *0.1025* | *0.004* | *0.9* | *970* | *30* | *627* | *1741* | *30* | 36 |
|  | *SOU130* | *2.732* | *0.07* | *0.1791* | *0.004* | *0.5* | *1337* | *18* | *1064* | *1675* | *45* | 64 |
|  | *SOU131* | *3.09* | *0.15* | *0.1893* | *0.007* | *0.7* | *1424* | *37* | *1115* | *1820* | *53* | 61 |
|  | *SOU133* | *3.4* | *0.21* | *0.1946* | *0.01* | *0.3* | *1471* | *49* | *1138* | *1920* | *110* | 59 |
|  | *SOU136* | *2.3* | *0.07* | *0.1445* | *0.004* | *0.9* | *1210* | *21* | *868* | *1788* | *28* | 49 |
|  | *SOU137* | *2.7* | *0.16* | *0.1704* | *0.009* | *0.9* | *1305* | *44* | *1010* | *1778* | *35* | 57 |

\*Analyses in bold are preferred ages.

Table S2 Results of detrital zircon Lu–Hf analyses

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Sample** | **Spot** | **Age (Ma)** | **176Lu/177Hf** | **176Hf/177Hf** | **2SD** | **176Hf/177Hf(i)** | **eHf(t)** | **2SD** | **TDM** |
| Bro-6 | BY\_Bro6\_002 | 1781 | 0.000607 | 0.28163 | 2.2E-05 | 0.28161 | -1.41 | 0.766 | 2.52 |
|  | BY\_Bro6\_005 | 1784 | 0.000777 | 0.2816 | 2.1E-05 | 0.28157 | -2.61 | 0.741 | 2.59 |
|  | BY\_Bro6\_015 | 1771 | 0.000731 | 0.28164 | 1.8E-05 | 0.28162 | -1.41 | 0.634 | 2.51 |
|  | BY\_Bro6\_022 | 1790 | 0.000869 | 0.28162 | 1.5E-05 | 0.28159 | -1.83 | 0.522 | 2.55 |
|  | BY\_Bro6\_024 | 1774 | 0.001346 | 0.28167 | 2.8E-05 | 0.28162 | -1.20 | 0.969 | 2.50 |
|  | BY\_Bro6\_025 | 1830 | 0.001164 | 0.28163 | 2.1E-05 | 0.28159 | -1.03 | 0.735 | 2.54 |
|  | BY\_Bro6\_045 | 1773 | 0.000766 | 0.2816 | 1.9E-05 | 0.28158 | -2.75 | 0.67 | 2.59 |
|  | BY\_Bro6\_052 | 2838 | 0.000514 | 0.28095 | 2E-05 | 0.28093 | -1.15 | 0.694 | 3.33 |
|  | BY\_Bro6\_077 | 1822 | 0.000758 | 0.28162 | 2.2E-05 | 0.28159 | -1.23 | 0.776 | 2.54 |
|  | BY\_Bro6\_078 | 1613 | 0.001048 | 0.2819 | 2.2E-05 | 0.28186 | 3.73 | 0.776 | 2.08 |
|  | BY\_Bro6\_080 | 1776 | 0.001293 | 0.28169 | 2.8E-05 | 0.28164 | -0.38 | 0.993 | 2.45 |
|  | BY\_Bro6\_088 | 1783 | 0.000677 | 0.28165 | 2.2E-05 | 0.28163 | -0.76 | 0.776 | 2.48 |
|  | BY\_Bro6\_090 | 1773 | 0.000435 | 0.28162 | 2.1E-05 | 0.2816 | -1.87 | 0.736 | 2.54 |
|  | BY\_Bro6\_091 | 1793 | 0.001244 | 0.2816 | 3.5E-05 | 0.28156 | -2.92 | 1.22 | 2.62 |
|  | BY\_Bro6\_118 | 1793 | 0.000696 | 0.28163 | 2.8E-05 | 0.2816 | -1.34 | 0.976 | 2.52 |
|  | BY\_Bro6\_123 | 1606 | 0.001083 | 0.2818 | 2.8E-05 | 0.28177 | 0.19 | 0.977 | 2.29 |
|  | BY\_Bro6\_124 | 1565 | 0.000758 | 0.28189 | 2.7E-05 | 0.28186 | 2.61 | 0.936 | 2.11 |
|  | BY\_Bro6\_131 | 1584 | 0.001107 | 0.28189 | 2E-05 | 0.28186 | 2.93 | 0.71 | 2.10 |
|  | BY\_Bro6\_134 | 1619 | 0.001915 | 0.28179 | 3.9E-05 | 0.28173 | -0.87 | 1.348 | 2.36 |
|  | BY\_Bro6\_135 | 1779 | 0.000644 | 0.28163 | 2.5E-05 | 0.28161 | -1.55 | 0.889 | 2.53 |
|  | BY\_Bro6\_138 | 1769 | 0.000847 | 0.28164 | 2.6E-05 | 0.28161 | -1.77 | 0.916 | 2.53 |
|  | BY\_Bro6\_143 | 1773 | 0.000744 | 0.28162 | 2.3E-05 | 0.28159 | -2.25 | 0.789 | 2.56 |
|  | BY\_Bro6\_146 | 1770 | 0.001065 | 0.28164 | 3.3E-05 | 0.2816 | -1.96 | 1.15 | 2.54 |
|  | BY\_Bro6\_147 | 1814 | 0.000493 | 0.28156 | 2.4E-05 | 0.28154 | -3.01 | 0.832 | 2.64 |
|  |  |  |  |  |  |  |  |  |  |
| Bro-7 | BY\_Bro7\_002 | 1740 | 0.00056 | 0.28162 | 2.6E-05 | 0.2816 | -2.56 | 0.912 | 2.56 |
|  | BY\_Bro7\_007 | 1767 | 0.000643 | 0.28159 | 2.3E-05 | 0.28156 | -3.35 | 0.798 | 2.63 |
|  | BY\_Bro7\_010 | 1712 | 0.00134 | 0.28176 | 3.5E-05 | 0.28172 | 0.85 | 1.214 | 2.33 |
|  | BY\_Bro7\_011 | 1719 | 0.000491 | 0.28158 | 2.6E-05 | 0.28156 | -4.63 | 0.896 | 2.67 |
|  | BY\_Bro7\_019 | 1734 | 0.000529 | 0.28182 | 2.3E-05 | 0.2818 | 4.40 | 0.795 | 2.13 |
|  | BY\_Bro7\_021 | 1742 | 0.000583 | 0.28159 | 2.1E-05 | 0.28157 | -3.71 | 0.752 | 2.63 |
|  | BY\_Bro7\_030 | 1889 | 0.000923 | 0.28162 | 2.4E-05 | 0.28158 | 0.14 | 0.849 | 2.51 |
|  | BY\_Bro7\_032 | 1733 | 0.000568 | 0.28161 | 2.3E-05 | 0.28159 | -3.15 | 0.816 | 2.59 |
|  | BY\_Bro7\_042 | 1790 | 0.000876 | 0.28171 | 2.3E-05 | 0.28168 | 1.28 | 0.817 | 2.36 |
|  | BY\_Bro7\_046 | 1825 | 0.000965 | 0.28164 | 2.3E-05 | 0.28161 | -0.43 | 0.804 | 2.49 |
|  | BY\_Bro7\_049 | 1731 | 0.000796 | 0.28161 | 2.3E-05 | 0.28159 | -3.33 | 0.816 | 2.60 |
|  | BY\_Bro7\_052 | 1817 | 0.000905 | 0.28161 | 2.5E-05 | 0.28158 | -1.83 | 0.863 | 2.57 |
|  | BY\_Bro7\_062 | 1899 | 0.000732 | 0.28159 | 2.2E-05 | 0.28157 | -0.28 | 0.786 | 2.54 |
|  | BY\_Bro7\_064 | 1891 | 0.000956 | 0.28154 | 2.6E-05 | 0.28151 | -2.62 | 0.913 | 2.68 |
|  | BY\_Bro7\_067 | 1726 | 0.001282 | 0.28166 | 3.1E-05 | 0.28161 | -2.58 | 1.092 | 2.55 |
|  | BY\_Bro7\_068 | 1726 | 0.000689 | 0.28162 | 2.4E-05 | 0.2816 | -2.99 | 0.844 | 2.57 |
|  | BY\_Bro7\_078 | 2588 | 0.000363 | 0.2811 | 2.3E-05 | 0.28108 | -1.44 | 0.788 | 3.15 |
|  | BY\_Bro7\_087 | 1814 | 0.001297 | 0.28152 | 2.7E-05 | 0.28147 | -5.62 | 0.95 | 2.80 |
|  | BY\_Bro7\_093 | 1863 | 0.000563 | 0.28163 | 1.9E-05 | 0.28161 | 0.55 | 0.676 | 2.47 |
|  | BY\_Bro7\_099 | 1774 | 0.001059 | 0.28163 | 2.5E-05 | 0.28159 | -2.23 | 0.882 | 2.56 |
|  | BY\_Bro7\_100 | 1737 | 0.000704 | 0.28161 | 2.6E-05 | 0.28158 | -3.42 | 0.913 | 2.61 |
|  | BY\_Bro7\_102 | 1742 | 0.000591 | 0.2816 | 2.3E-05 | 0.28158 | -3.22 | 0.815 | 2.60 |
|  | BY\_Bro7\_103 | 1922 | 0.000757 | 0.28156 | 2.4E-05 | 0.28153 | -0.94 | 0.85 | 2.60 |
|  | BY\_Bro7\_104 | 1717 | 0.000812 | 0.28164 | 2E-05 | 0.28161 | -2.90 | 0.714 | 2.56 |
|  |  |  |  |  |  |  |  |  |  |
| MS-03 | BY-MS03\_015 | 1804 | 0.001386 | 0.28162 | 2.3E-05 | 0.28157 | -2.15 | 0.797 | 2.58 |
|  | BY-MS03\_056 | 1802 | 0.000581 | 0.2817 | 2.1E-05 | 0.28168 | 1.52 | 0.737 | 2.36 |
|  | BY-MS03\_060 | 1812 | 0.000887 | 0.28171 | 2E-05 | 0.28168 | 1.70 | 0.685 | 2.36 |
|  | BY-MS03\_062 | 2534 | 0.00129 | 0.28139 | 2.8E-05 | 0.28132 | 5.90 | 0.997 | 2.68 |
|  | BY-MS03\_066 | 1846 | 0.002138 | 0.28165 | 2.9E-05 | 0.28157 | -1.22 | 1.031 | 2.56 |
|  | BY-MS03\_070 | 1806 | 0.001175 | 0.28159 | 2.6E-05 | 0.28154 | -3.17 | 0.894 | 2.65 |
|  | BY-MS03\_071 | 1784 | 0.000829 | 0.28159 | 2E-05 | 0.28156 | -2.99 | 0.686 | 2.62 |
|  | BY-MS03\_077 | 2685 | 0.000962 | 0.28121 | 2.6E-05 | 0.28116 | 3.42 | 0.906 | 2.94 |
|  | BY-MS03\_084 | 1790 | 0.001098 | 0.28159 | 2.3E-05 | 0.28155 | -3.32 | 0.789 | 2.64 |
|  | BY-MS03\_090 | 1835 | 0.002032 | 0.28164 | 3.3E-05 | 0.28157 | -1.48 | 1.172 | 2.57 |
|  | BY-MS03\_096 | 1835 | 0.001117 | 0.28158 | 2.4E-05 | 0.28154 | -2.69 | 0.856 | 2.64 |
|  | BY-MS03\_108 | 1797 | 0.001307 | 0.28156 | 3.2E-05 | 0.28152 | -4.28 | 1.135 | 2.70 |
|  | BY-MS03\_112 | 1813 | 0.001075 | 0.2816 | 2.8E-05 | 0.28156 | -2.48 | 0.966 | 2.61 |
|  | BY-MS03\_121 | 1830 | 0.000578 | 0.28146 | 2.2E-05 | 0.28144 | -6.24 | 0.778 | 2.85 |
|  | BY-MS03\_122 | 1808 | 0.000789 | 0.28159 | 2.2E-05 | 0.28156 | -2.55 | 0.783 | 2.61 |
|  | BY-MS03\_127 | 1828 | 0.000595 | 0.28164 | 2.1E-05 | 0.28162 | -0.01 | 0.73 | 2.47 |
|  | BY-MS03\_128 | 1850 | 0.000912 | 0.28171 | 2.4E-05 | 0.28168 | 2.53 | 0.83 | 2.34 |
|  | BY-MS03\_138 | 1791 | 0.000806 | 0.28166 | 2.1E-05 | 0.28163 | -0.42 | 0.743 | 2.47 |
|  | BY-MS03\_147 | 1835 | 0.001799 | 0.2816 | 3.1E-05 | 0.28153 | -2.91 | 1.1 | 2.65 |
|  | BY-MS03\_148 | 1838 | 0.000973 | 0.28161 | 2.5E-05 | 0.28158 | -1.30 | 0.879 | 2.56 |
|  |  |  |  |  |  |  |  |  |  |
| MS-05 | BY-MS05\_003 | 1760 | 0.003271 | 0.28197 | 6.5E-05 | 0.28186 | 6.87 | 2.258 | 2.00 |
|  | BY-MS05\_011 | 1921 | 0.000786 | 0.28151 | 2.6E-05 | 0.28148 | -2.64 | 0.927 | 2.70 |
|  | BY-MS05\_017 | 1893 | 0.001569 | 0.28156 | 3.3E-05 | 0.2815 | -2.67 | 1.171 | 2.68 |
|  | BY-MS05\_019 | 1978 | 0.002602 | 0.28143 | 4.6E-05 | 0.28133 | -6.66 | 1.602 | 2.99 |
|  | BY-MS05\_020 | 1784 | 0.001086 | 0.28159 | 2.5E-05 | 0.28155 | -3.39 | 0.889 | 2.64 |
|  | BY-MS05\_039 | 1799 | 0.000984 | 0.28158 | 2.7E-05 | 0.28154 | -3.37 | 0.929 | 2.65 |
|  | BY-MS05\_040 | 1807 | 0.001073 | 0.28161 | 2.9E-05 | 0.28157 | -2.22 | 0.999 | 2.59 |
|  | BY-MS05\_041 | 1745 | 0.001003 | 0.2816 | 2.5E-05 | 0.28156 | -3.91 | 0.876 | 2.64 |
|  | BY-MS05\_047 | 1803 | 0.002244 | 0.28152 | 4.3E-05 | 0.28144 | -6.81 | 1.516 | 2.86 |
|  | BY-MS05\_052 | 1797 | 0.001096 | 0.28163 | 2.4E-05 | 0.28159 | -1.60 | 0.825 | 2.54 |
|  | BY-MS05\_057 | 1784 | 0.001127 | 0.28161 | 2.9E-05 | 0.28157 | -2.86 | 1.024 | 2.61 |
|  | BY-MS05\_064 | 2282 | 0.00565 | 0.28143 | 0.00011 | 0.28118 | -5.15 | 3.712 | 3.13 |
|  | BY-MS05\_078 | 1917 | 0.001243 | 0.28158 | 3.4E-05 | 0.28154 | -0.88 | 1.185 | 2.59 |
|  | BY-MS05\_084 | 1741 | 0.001064 | 0.2816 | 3.6E-05 | 0.28157 | -3.91 | 1.246 | 2.64 |
|  | BY-MS05\_096 | 1788 | 0.000945 | 0.28155 | 2.4E-05 | 0.28152 | -4.60 | 0.852 | 2.72 |
|  | BY-MS05\_101 | 1795 | 0.001148 | 0.28167 | 3.7E-05 | 0.28164 | -0.19 | 1.279 | 2.46 |
|  | BY-MS05\_109 | 1732 | 0.001961 | 0.28167 | 4.8E-05 | 0.2816 | -2.76 | 1.666 | 2.56 |
|  | BY-MS05\_120 | 1796 | 0.000842 | 0.28161 | 3.1E-05 | 0.28158 | -2.12 | 1.081 | 2.57 |
|  | BY-MS05\_130 | 1800 | 0.0009 | 0.28158 | 3.2E-05 | 0.28155 | -3.13 | 1.123 | 2.64 |
|  | BY-MS05\_136 | 1908 | 0.002724 | 0.28171 | 6.8E-05 | 0.28161 | 1.47 | 2.387 | 2.45 |
|  | BY-MS05\_147 | 1753 | 0.000969 | 0.28164 | 3.2E-05 | 0.28161 | -2.04 | 1.128 | 2.54 |
|  | BY-MS05\_148 | 1896 | 0.001667 | 0.28155 | 4.1E-05 | 0.28149 | -3.12 | 1.426 | 2.71 |
|  |  |  |  |  |  |  |  |  |  |
| MS-06 | BY-MS06\_008 | 2176 | 0.000692 | 0.28107 | 3.4E-05 | 0.28104 | -12.66 | 1.193 | 3.50 |
|  | BY-MS06\_012 | 1947 | 0.00303 | 0.28162 | 7.3E-05 | 0.2815 | -1.35 | 2.566 | 2.65 |
|  | BY-MS06\_019 | 1826 | 0.002296 | 0.28166 | 5.4E-05 | 0.28158 | -1.53 | 1.875 | 2.56 |
|  | BY-MS06\_020 | 2503 | 0.002918 | 0.28131 | 6.1E-05 | 0.28117 | -0.43 | 2.15 | 3.03 |
|  | BY-MS06\_022 | 1817 | 0.001007 | 0.2816 | 3.3E-05 | 0.28157 | -2.09 | 1.167 | 2.59 |
|  | BY-MS06\_026 | 1806 | 0.001308 | 0.2816 | 2.5E-05 | 0.28156 | -2.79 | 0.888 | 2.62 |
|  | BY-MS06\_027 | 1952 | 0.000342 | 0.28152 | 2.7E-05 | 0.2815 | -1.30 | 0.952 | 2.65 |
|  | BY-MS06\_028 | 1937 | 0.000689 | 0.28165 | 2.9E-05 | 0.28162 | 2.51 | 1.021 | 2.41 |
|  | BY-MS06\_029 | 1822 | 0.001405 | 0.28159 | 2.4E-05 | 0.28154 | -3.06 | 0.855 | 2.65 |
|  | BY-MS06\_053 | 1823 | 0.001147 | 0.28165 | 2.5E-05 | 0.28161 | -0.43 | 0.869 | 2.49 |
|  | BY-MS06\_055 | 1830 | 0.000941 | 0.2816 | 2.8E-05 | 0.28157 | -1.74 | 0.985 | 2.58 |
|  | BY-MS06\_066 | 1803 | 0.000779 | 0.28172 | 2.4E-05 | 0.2817 | 2.13 | 0.826 | 2.32 |
|  | BY-MS06\_071 | 1802 | 0.001922 | 0.28163 | 3.1E-05 | 0.28156 | -2.64 | 1.096 | 2.61 |
|  | BY-MS06\_075 | 2168 | 0.001282 | 0.2813 | 2.9E-05 | 0.28125 | -5.22 | 1.02 | 3.05 |
|  | BY-MS06\_086 | 1805 | 0.000901 | 0.28166 | 2.7E-05 | 0.28163 | -0.20 | 0.934 | 2.47 |
|  | BY-MS06\_091 | 1975 | 0.000252 | 0.28143 | 2E-05 | 0.28142 | -3.80 | 0.708 | 2.81 |
|  | BY-MS06\_116 | 1804 | 0.00097 | 0.28164 | 2.5E-05 | 0.2816 | -1.09 | 0.873 | 2.52 |
|  | BY-MS06\_135 | 2205 | 0.000782 | 0.28147 | 2.7E-05 | 0.28143 | 2.09 | 0.946 | 2.64 |
|  | BY-MS06\_138 | 1832 | 0.001212 | 0.28149 | 2.8E-05 | 0.28145 | -6.09 | 0.974 | 2.84 |
|  | BY-MS06\_141 | 2517 | 0.000546 | 0.28127 | 2.3E-05 | 0.28124 | 2.64 | 0.819 | 2.86 |
|  | BY-MS06\_146 | 1852 | 0.000762 | 0.28168 | 3E-05 | 0.28165 | 1.79 | 1.044 | 2.38 |
|  |  |  |  |  |  |  |  |  |  |
| MS-09 | BY-MS09\_004 | 1807 | 0.001016 | 0.28158 | 3.7E-05 | 0.28154 | -3.21 | 1.306 | 2.65 |
|  | BY-MS09\_006 | 1844 | 0.000847 | 0.28159 | 2.9E-05 | 0.28156 | -1.90 | 1.01 | 2.60 |
|  | BY-MS09\_013 | 1803 | 0.002503 | 0.28163 | 4E-05 | 0.28155 | -3.17 | 1.392 | 2.64 |
|  | BY-MS09\_015 | 1873 | 0.00085 | 0.2816 | 2.7E-05 | 0.28157 | -0.71 | 0.933 | 2.55 |
|  | BY-MS09\_025 | 2199 | 0.000543 | 0.28142 | 2.9E-05 | 0.2814 | 0.77 | 1.004 | 2.72 |
|  | BY-MS09\_030 | 1851 | 0.0014 | 0.28153 | 2.8E-05 | 0.28148 | -4.36 | 0.982 | 2.75 |
|  | BY-MS09\_040 | 1834 | 0.001624 | 0.28164 | 2.9E-05 | 0.28159 | -0.99 | 1.004 | 2.54 |
|  | BY-MS09\_042 | 1916 | 0.001116 | 0.28141 | 2.7E-05 | 0.28137 | -6.71 | 0.936 | 2.94 |
|  | BY-MS09\_043 | 2491 | 0.000557 | 0.28126 | 2.8E-05 | 0.28124 | 1.78 | 0.984 | 2.89 |
|  | BY-MS09\_044 | 2176 | 0.001586 | 0.28146 | 3.4E-05 | 0.2814 | 0.09 | 1.197 | 2.74 |
|  | BY-MS09\_047 | 1846 | 0.001093 | 0.28163 | 2.3E-05 | 0.28159 | -0.52 | 0.82 | 2.52 |
|  | BY-MS09\_049 | 1834 | 0.000958 | 0.2816 | 2.5E-05 | 0.28156 | -1.85 | 0.877 | 2.59 |
|  | BY-MS09\_052 | 1918 | 0.000997 | 0.28151 | 2.4E-05 | 0.28147 | -3.24 | 0.834 | 2.74 |
|  | BY-MS09\_057 | 1818 | 0.000425 | 0.28155 | 2.3E-05 | 0.28154 | -3.11 | 0.817 | 2.65 |
|  | BY-MS09\_058 | 1910 | 0.001402 | 0.28153 | 3E-05 | 0.28148 | -3.25 | 1.035 | 2.73 |
|  | BY-MS09\_063 | 1862 | 0.000715 | 0.28162 | 2.2E-05 | 0.28159 | -0.14 | 0.771 | 2.51 |
|  | BY-MS09\_073 | 1838 | 0.000781 | 0.28171 | 2.4E-05 | 0.28169 | 2.59 | 0.851 | 2.32 |
|  | BY-MS09\_079 | 1835 | 0.000681 | 0.28169 | 2E-05 | 0.28167 | 1.98 | 0.697 | 2.36 |
|  | BY-MS09\_083 | 1861 | 0.001313 | 0.28161 | 2.4E-05 | 0.28157 | -1.10 | 0.853 | 2.56 |
|  | BY-MS09\_088 | 1898 | 0.01151 | 0.28162 | 0.00011 | 0.28121 | -12.95 | 3.687 | 3.30 |
|  | BY-MS09\_103 | 2184 | 0.000569 | 0.28147 | 2.5E-05 | 0.28144 | 1.94 | 0.859 | 2.63 |
|  | BY-MS09\_106 | 2488 | 0.004207 | 0.28114 | 5.3E-05 | 0.28094 | -8.79 | 1.839 | 3.51 |
|  |  |  |  |  |  |  |  |  |  |
| DD2 | BY\_DD2\_007 | 1931 | 0.000387 | 0.28157 | 2.1E-05 | 0.28156 | 0.23 | 0.722 | 2.54 |
|  | BY\_DD2\_016 | 1547 | 0.000698 | 0.28175 | 2.3E-05 | 0.28173 | -2.54 | 0.8 | 2.41 |
|  | BY\_DD2\_018 | 2573 | 0.000708 | 0.28123 | 1.5E-05 | 0.2812 | 2.38 | 0.518 | 2.92 |
|  | BY\_DD2\_024 | 1778 | 0.000771 | 0.28149 | 2.4E-05 | 0.28146 | -6.76 | 0.851 | 2.84 |
|  | BY\_DD2\_032 | 1853 | 0.000742 | 0.28151 | 2.2E-05 | 0.28148 | -4.24 | 0.786 | 2.75 |
|  | BY\_DD2\_033 | 1638 | 0.00083 | 0.28174 | 2.2E-05 | 0.28171 | -1.08 | 0.77 | 2.39 |
|  | BY\_DD2\_038 | 1837 | 0.000954 | 0.28147 | 2.1E-05 | 0.28144 | -6.23 | 0.733 | 2.85 |
|  | BY\_DD2\_041 | 1920 | 0.000937 | 0.28146 | 2.4E-05 | 0.28143 | -4.75 | 0.841 | 2.83 |
|  | BY\_DD2\_042 | 1866 | 0.000937 | 0.28146 | 2.4E-05 | 0.28143 | -5.96 | 0.841 | 2.86 |
|  | BY\_DD2\_044 | 1821 | 0.000977 | 0.28162 | 2.1E-05 | 0.28158 | -1.49 | 0.73 | 2.56 |
|  | BY\_DD2\_050 | 1819 | 0.000511 | 0.2814 | 2.1E-05 | 0.28138 | -8.67 | 0.724 | 2.98 |
|  | BY\_DD2\_054 | 1841 | 0.000385 | 0.28157 | 1.8E-05 | 0.28156 | -1.97 | 0.635 | 2.60 |
|  | BY\_DD2\_055 | 1608 | 0.000605 | 0.28174 | 2.3E-05 | 0.28172 | -1.50 | 0.796 | 2.39 |
|  | BY\_DD2\_058 | 1864 | 0.000867 | 0.28158 | 2.2E-05 | 0.28155 | -1.81 | 0.776 | 2.61 |
|  | BY\_DD2\_061 | 1781 | 0.000542 | 0.28152 | 2.2E-05 | 0.2815 | -5.17 | 0.768 | 2.75 |
|  | BY\_DD2\_066 | 2479 | 0.000732 | 0.28157 | 2.1E-05 | 0.28153 | 11.97 | 0.725 | 2.27 |
|  | BY\_DD2\_069 | 1538 | 0.000828 | 0.28137 | 2.3E-05 | 0.28135 | -16.30 | 0.8 | 3.23 |
|  | BY\_DD2\_075 | 1782 | 0.000288 | 0.28151 | 2.1E-05 | 0.2815 | -5.21 | 0.719 | 2.75 |
|  | BY\_DD2\_080 | 1568 | 0.000552 | 0.28173 | 2.5E-05 | 0.28171 | -2.70 | 0.881 | 2.43 |
|  | BY\_DD2\_089 | 1783 | 0.000166 | 0.2815 | 2.3E-05 | 0.28149 | -5.61 | 0.798 | 2.77 |
|  | BY\_DD2\_091 | 1923 | 0.00099 | 0.28158 | 2.3E-05 | 0.28154 | -0.51 | 0.791 | 2.58 |
|  | BY\_DD2\_092 | 1853 | 0.000232 | 0.28153 | 1.9E-05 | 0.28152 | -2.92 | 0.669 | 2.67 |
|  | BY\_DD2\_095 | 1845 | 0.000638 | 0.28163 | 2E-05 | 0.2816 | -0.15 | 0.688 | 2.49 |
|  | BY\_DD2\_097 | 1856 | 0.00082 | 0.28164 | 2.3E-05 | 0.28161 | 0.19 | 0.819 | 2.48 |
|  |  |  |  |  |  |  |  |  |  |
| DD24 | BY\_DD24\_003 | 1944 | 0.000719 | 0.28149 | 2E-05 | 0.28146 | -2.88 | 0.686 | 2.74 |
|  | BY\_DD24\_017 | 1750 | 0.000717 | 0.28166 | 1.9E-05 | 0.28163 | -1.35 | 0.672 | 2.49 |
|  | BY\_DD24\_037 | 1949 | 0.001038 | 0.28163 | 2.2E-05 | 0.28159 | 1.69 | 0.782 | 2.46 |
|  | BY\_DD24\_046 | 1729 | 0.0013 | 0.28162 | 2E-05 | 0.28158 | -3.71 | 0.717 | 2.62 |
|  | BY\_DD24\_048 | 1855 | 0.00126 | 0.28161 | 3.4E-05 | 0.28156 | -1.34 | 1.176 | 2.57 |
|  | BY\_DD24\_064 | 1841 | 0.000775 | 0.28173 | 2E-05 | 0.2817 | 3.15 | 0.713 | 2.29 |
|  | BY\_DD24\_070 | 1821 | 0.000926 | 0.2816 | 2.8E-05 | 0.28157 | -1.95 | 0.973 | 2.58 |
|  | BY\_DD24\_071 | 1744 | 0.000963 | 0.28169 | 2.9E-05 | 0.28165 | -0.74 | 1.014 | 2.45 |
|  | BY\_DD24\_088 | 1838 | 0.000472 | 0.2815 | 2.6E-05 | 0.28148 | -4.59 | 0.896 | 2.76 |
|  | BY\_DD24\_102 | 1917 | 0.000703 | 0.28142 | 2.5E-05 | 0.28139 | -6.09 | 0.862 | 2.91 |
|  | BY\_DD24\_107 | 2419 | 0.000472 | 0.28098 | 2.1E-05 | 0.28096 | -9.84 | 0.725 | 3.52 |
|  | BY\_DD24\_108 | 1842 | 0.000857 | 0.28139 | 2.7E-05 | 0.28136 | -8.95 | 0.932 | 3.02 |
|  | BY\_DD24\_113 | 1731 | 0.001251 | 0.28167 | 3.4E-05 | 0.28163 | -1.90 | 1.177 | 2.51 |
|  | BY\_DD24\_117 | 1839 | 0.002847 | 0.28165 | 3.7E-05 | 0.28155 | -2.12 | 1.31 | 2.61 |
|  | BY\_DD24\_122 | 1855 | 0.000894 | 0.28157 | 2.4E-05 | 0.28154 | -2.10 | 0.853 | 2.62 |
|  |  |  |  |  |  |  |  |  |  |
| DD57 | BY\_DD57Hf-001 | 1843 | 0.002004 | 0.28164 | 4.1E-05 | 0.28157 | -1.31 | 1.432 | 2.56 |
|  | BY\_DD57Hf-002 | 1759 | 0.001004 | 0.28168 | 2.6E-05 | 0.28165 | -0.64 | 0.924 | 2.46 |
|  | BY\_DD57Hf-003 | 1804 | 0.000784 | 0.28174 | 2.2E-05 | 0.28171 | 2.61 | 0.78 | 2.29 |
|  | BY\_DD57Hf-004 | 2969 | 0.000615 | 0.28095 | 2.7E-05 | 0.28092 | 1.65 | 0.928 | 3.27 |
|  | BY\_DD57Hf-005 | 1802 | 0.000788 | 0.28161 | 2.5E-05 | 0.28158 | -1.93 | 0.882 | 2.57 |
|  | BY\_DD57Hf-006 | 1752 | 0.001113 | 0.28163 | 2.7E-05 | 0.28159 | -2.70 | 0.95 | 2.57 |
|  | BY\_DD57Hf-007 | 1766 | 0.000812 | 0.28157 | 2.2E-05 | 0.28154 | -4.22 | 0.762 | 2.68 |
|  | BY\_DD57Hf-008 | 1805 | 0.000751 | 0.28162 | 2.4E-05 | 0.28159 | -1.49 | 0.845 | 2.54 |
|  | BY\_DD57Hf-009 | 1853 | 0.00056 | 0.28162 | 2.1E-05 | 0.2816 | -0.11 | 0.725 | 2.50 |
|  | BY\_DD57Hf-010 | 1755 | 0.000556 | 0.28151 | 2.5E-05 | 0.28149 | -6.17 | 0.874 | 2.79 |
|  | BY\_DD57Hf-011 | 1788 | 0.000889 | 0.28161 | 2E-05 | 0.28158 | -2.47 | 0.7 | 2.59 |
|  | BY\_DD57Hf-012 | 1795 | 0.000794 | 0.28161 | 2.7E-05 | 0.28158 | -2.22 | 0.947 | 2.58 |
|  | BY\_DD57Hf-013 | 1799 | 0.001052 | 0.28156 | 2.8E-05 | 0.28152 | -4.07 | 0.988 | 2.69 |
|  | BY\_DD57Hf-014 | 1865 | 0.000944 | 0.2817 | 2.5E-05 | 0.28167 | 2.50 | 0.864 | 2.35 |
|  | BY\_DD57Hf-015 | 1760 | 0.000759 | 0.28161 | 2.4E-05 | 0.28158 | -2.87 | 0.851 | 2.59 |
|  | BY\_DD57Hf-016 | 1793 | 0.000807 | 0.28161 | 2.5E-05 | 0.28159 | -1.99 | 0.886 | 2.56 |
|  | BY\_DD57Hf-017 | 1828 | 0.000861 | 0.28162 | 2.8E-05 | 0.28159 | -1.04 | 0.971 | 2.53 |
|  | BY\_DD57Hf-018 | 1851 | 0.001369 | 0.28155 | 3E-05 | 0.2815 | -3.77 | 1.041 | 2.72 |
|  | BY\_DD57Hf-019 | 1793 | 0.001334 | 0.28169 | 2.9E-05 | 0.28164 | -0.02 | 1.018 | 2.45 |
|  | BY\_DD57Hf-020 | 1751 | 0.001161 | 0.28161 | 3.1E-05 | 0.28157 | -3.50 | 1.092 | 2.62 |
|  |  |  |  |  |  |  |  |  |  |
| AY | BY\_AYHf-002 | 1804 | 0.000591 | 0.28154 | 2.3E-05 | 0.28152 | -4.12 | 0.814 | 2.70 |
|  | BY\_AYHf-020 | 1798 | 0.000971 | 0.28166 | 3E-05 | 0.28162 | -0.51 | 1.045 | 2.48 |
|  | BY\_AYHf-024 | 1691 | 0.001674 | 0.28166 | 2.8E-05 | 0.2816 | -3.79 | 0.968 | 2.59 |
|  | BY\_AYHf-028 | 2042 | 0.000636 | 0.2813 | 2.2E-05 | 0.28128 | -7.14 | 0.784 | 3.07 |
|  | BY\_AYHf-054 | 1729 | 0.001813 | 0.28166 | 2.8E-05 | 0.2816 | -3.10 | 0.982 | 2.58 |
|  | BY\_AYHf-056 | 2041 | 0.002045 | 0.28159 | 3E-05 | 0.28151 | 1.11 | 1.067 | 2.57 |
|  | BY\_AYHf-062 | 1723 | 0.001621 | 0.28168 | 3E-05 | 0.28162 | -2.24 | 1.06 | 2.52 |
|  | BY\_AYHf-064 | 1615 | 0.000533 | 0.2815 | 2.2E-05 | 0.28149 | -9.54 | 0.769 | 2.88 |
|  | BY\_AYHf-073 | 1725 | 0.001551 | 0.28166 | 2.9E-05 | 0.28161 | -2.67 | 0.998 | 2.55 |
|  | BY\_AYHf-069 | 1821 | 0.000901 | 0.28162 | 2.6E-05 | 0.28159 | -1.17 | 0.896 | 2.54 |
|  | BY\_AYHf-077 | 1757 | 0.000854 | 0.28157 | 2.3E-05 | 0.28154 | -4.42 | 0.805 | 2.68 |
|  | BY\_AYHf-078 | 1706 | 0.001115 | 0.28165 | 2.8E-05 | 0.28161 | -3.04 | 0.997 | 2.56 |
|  | BY\_AYHf-082 | 1816 | 0.001025 | 0.28149 | 2.4E-05 | 0.28146 | -6.11 | 0.853 | 2.83 |
|  | BY\_AYHf-090 | 1699 | 0.00101 | 0.28164 | 2.3E-05 | 0.2816 | -3.54 | 0.813 | 2.58 |
|  | BY\_AYHf-091 | 1597 | 0.000804 | 0.28172 | 2E-05 | 0.28169 | -2.67 | 0.708 | 2.45 |
|  | BY\_AYHf-095 | 1716 | 0.001813 | 0.28164 | 2.9E-05 | 0.28158 | -3.98 | 1.019 | 2.62 |
|  | BY\_AYHf-104 | 1542 | 0.001318 | 0.28169 | 2.5E-05 | 0.28166 | -5.29 | 0.876 | 2.57 |
|  | BY\_AYHf-108 | 1828 | 0.000604 | 0.28161 | 2.1E-05 | 0.28159 | -1.13 | 0.731 | 2.54 |
|  | BY\_AYHf-110 | 1753 | 0.000646 | 0.28156 | 2.3E-05 | 0.28154 | -4.68 | 0.797 | 2.69 |
|  | BY\_AYHf-116 | 1700 | 0.001324 | 0.28167 | 2.3E-05 | 0.28163 | -2.73 | 0.812 | 2.54 |
|  | BY\_AYHf-122 | 1701 | 0.000986 | 0.28159 | 2.3E-05 | 0.28155 | -5.27 | 0.799 | 2.69 |
|  | BY\_AYHf-136 | 2447 | 0.000363 | 0.2813 | 1.9E-05 | 0.28128 | 2.20 | 0.667 | 2.83 |
|  |  |  |  |  |  |  |  |  |  |
| JR | BY\_JR\_001 | 2036 | 0.000334 | 0.28147 | 2E-05 | 0.28145 | -1.15 | 0.715 | 2.70 |
|  | BY\_JR\_004 | 1585 | 0.001815 | 0.2819 | 3.2E-05 | 0.28184 | 2.38 | 1.135 | 2.14 |
|  | BY\_JR\_008 | 1805 | 0.00072 | 0.2817 | 2.4E-05 | 0.28167 | 1.30 | 0.831 | 2.37 |
|  | BY\_JR\_016 | 1580 | 0.000971 | 0.28189 | 2.5E-05 | 0.28186 | 2.85 | 0.859 | 2.10 |
|  | BY\_JR\_024 | 1752 | 0.0006 | 0.28167 | 2.3E-05 | 0.28165 | -0.84 | 0.799 | 2.46 |
|  | BY\_JR\_028 | 1659 | 0.000628 | 0.28168 | 2.1E-05 | 0.28166 | -2.41 | 0.734 | 2.48 |
|  | BY\_JR\_040 | 1746 | 0.000555 | 0.28171 | 2.1E-05 | 0.28169 | 0.53 | 0.729 | 2.38 |
|  | BY\_JR\_053 | 1758 | 0.000655 | 0.28169 | 2.4E-05 | 0.28166 | -0.06 | 0.835 | 2.42 |
|  | BY\_JR\_060 | 1685 | 0.000678 | 0.28163 | 2E-05 | 0.28161 | -3.59 | 0.713 | 2.58 |
|  | BY\_JR\_067 | 2862 | 0.00065 | 0.28089 | 2.1E-05 | 0.28086 | -3.07 | 0.724 | 3.46 |
|  | BY\_JR\_069 | 1812 | 0.000782 | 0.28166 | 2E-05 | 0.28163 | -0.06 | 0.707 | 2.46 |
|  | BY\_JR\_073 | 1754 | 0.00074 | 0.28167 | 2.1E-05 | 0.28164 | -0.83 | 0.743 | 2.46 |
|  | BY\_JR\_076 | 1737 | 0.00058 | 0.28169 | 2.4E-05 | 0.28167 | -0.39 | 0.834 | 2.42 |
|  | BY\_JR\_078 | 1780 | 0.000544 | 0.28166 | 2.4E-05 | 0.28164 | -0.42 | 0.844 | 2.46 |
|  | BY\_JR\_093 | 1818 | 0.000542 | 0.2817 | 2.1E-05 | 0.28168 | 1.83 | 0.72 | 2.35 |
|  | BY\_JR\_095 | 1782 | 0.000702 | 0.28168 | 2.2E-05 | 0.28165 | 0.14 | 0.781 | 2.43 |
|  | BY\_JR\_095 | 1769 | 0.000615 | 0.28168 | 2.4E-05 | 0.28166 | 0.02 | 0.841 | 2.42 |
|  | BY\_JR\_139 | 1736 | 0.000564 | 0.28168 | 2.5E-05 | 0.28166 | -0.66 | 0.861 | 2.44 |
|  | BY\_JR\_144 | 1738 | 0.000975 | 0.28163 | 2.2E-05 | 0.28159 | -2.99 | 0.785 | 2.58 |
|  | BY\_JR\_146 | 1811 | 0.000683 | 0.28148 | 2.3E-05 | 0.28146 | -6.02 | 0.818 | 2.82 |
|  |  |  |  |  |  |  |  |  |  |
| SOU | BY\_SOU\_001 | 1753 | 0.000869 | 0.28152 | 2.9E-05 | 0.28149 | -6.34 | 1.029 | 2.79 |
|  | BY\_SOU\_002 | 1608 | 0.000468 | 0.28162 | 2E-05 | 0.28161 | -5.55 | 0.71 | 2.64 |
|  | BY\_SOU\_019 | 1608 | 0.00102 | 0.28169 | 2.4E-05 | 0.28166 | -3.77 | 0.835 | 2.53 |
|  | BY\_SOU\_024 | 1828 | 0.000601 | 0.28171 | 2.3E-05 | 0.28169 | 2.47 | 0.82 | 2.32 |
|  | BY\_SOU\_026 | 1723 | 0.001163 | 0.28169 | 2.5E-05 | 0.28165 | -1.27 | 0.881 | 2.47 |
|  | BY\_SOU\_030 | 1728 | 0.001044 | 0.28167 | 2.3E-05 | 0.28163 | -1.78 | 0.798 | 2.50 |
|  | BY\_SOU\_042 | 1576 | 0.000808 | 0.28185 | 2.4E-05 | 0.28183 | 1.63 | 0.841 | 2.18 |
|  | BY\_SOU\_043 | 1746 | 0.00066 | 0.28156 | 2.4E-05 | 0.28154 | -4.81 | 0.831 | 2.70 |
|  | BY\_SOU\_044 | 1550 | 0.002582 | 0.28195 | 3.6E-05 | 0.28188 | 2.69 | 1.258 | 2.09 |
|  | BY\_SOU\_046 | 1766 | 0.000739 | 0.28161 | 2.7E-05 | 0.28158 | -2.74 | 0.931 | 2.59 |
|  | BY\_SOU\_057 | 1533 | 0.000738 | 0.28162 | 1.8E-05 | 0.2816 | -7.34 | 0.645 | 2.69 |
|  | BY\_SOU\_070 | 1737 | 0.001234 | 0.28153 | 2.4E-05 | 0.28149 | -6.79 | 0.857 | 2.81 |
|  | BY\_SOU\_073 | 1731 | 0.00083 | 0.28157 | 2.1E-05 | 0.28154 | -5.04 | 0.72 | 2.70 |
|  | BY\_SOU\_077 | 1782 | 0.000595 | 0.28157 | 2.3E-05 | 0.28155 | -3.52 | 0.817 | 2.65 |
|  | BY\_SOU\_083 | 1704 | 0.001189 | 0.28162 | 2.2E-05 | 0.28158 | -4.12 | 0.771 | 2.62 |
|  | BY\_SOU\_092 | 1713 | 0.00061 | 0.28157 | 1.9E-05 | 0.28155 | -5.03 | 0.649 | 2.68 |
|  | BY\_SOU\_097 | 2939 | 0.000301 | 0.281 | 2E-05 | 0.28098 | 3.10 | 0.686 | 3.16 |
|  | BY\_SOU\_191 | 1716 | 0.000547 | 0.28152 | 2.1E-05 | 0.2815 | -6.92 | 0.748 | 2.80 |
|  | BY\_SOU\_121 | 1755 | 0.001017 | 0.28159 | 2.7E-05 | 0.28156 | -3.96 | 0.955 | 2.65 |

## 3. Reference materials

The downhole fractionation, instrument drift and mass bias correction factors for Pb/U ratios on zircon grains were calculated using the primary standards of GEMOC GJ-1 (Jackson et al., 2004). Additional secondary standards (the Plešovice of Slama et al. 2008 and the 91500 standard of Wiedenbeck et al., 1995) were analysed as unknowns to monitor accuracy. The 91500 standard yields 206Pb/238U weighted mean age of 1063.3 ± 4.8 Ma (95% confidence, n=34, MSWD=1.7; Figure S3) and 207Pb/206Pb weighted mean age of 1064 ± 16 Ma (95% confidence, n=34, MSWD=1.06; Figure S4) within error of the published TIMS 206Pb/238U and 207Pb/206Pb ages of 1062.4 ± 0.4 Ma and 1065.4 ± 0.3 Ma (Wiedenbeck et al., 1995). The secondary zircon standard of Plešovice returned weighted 206Pb/238U age of 336.49 ± 0.35 Ma (95% confidence, n=133, MSWD=1.4; Figure S5), consistent with the published age (337.1 ± 0.37 Ma, Slama et al., 2008). Detailed analytical results of the secondary zircon standards are listed in Table S3.

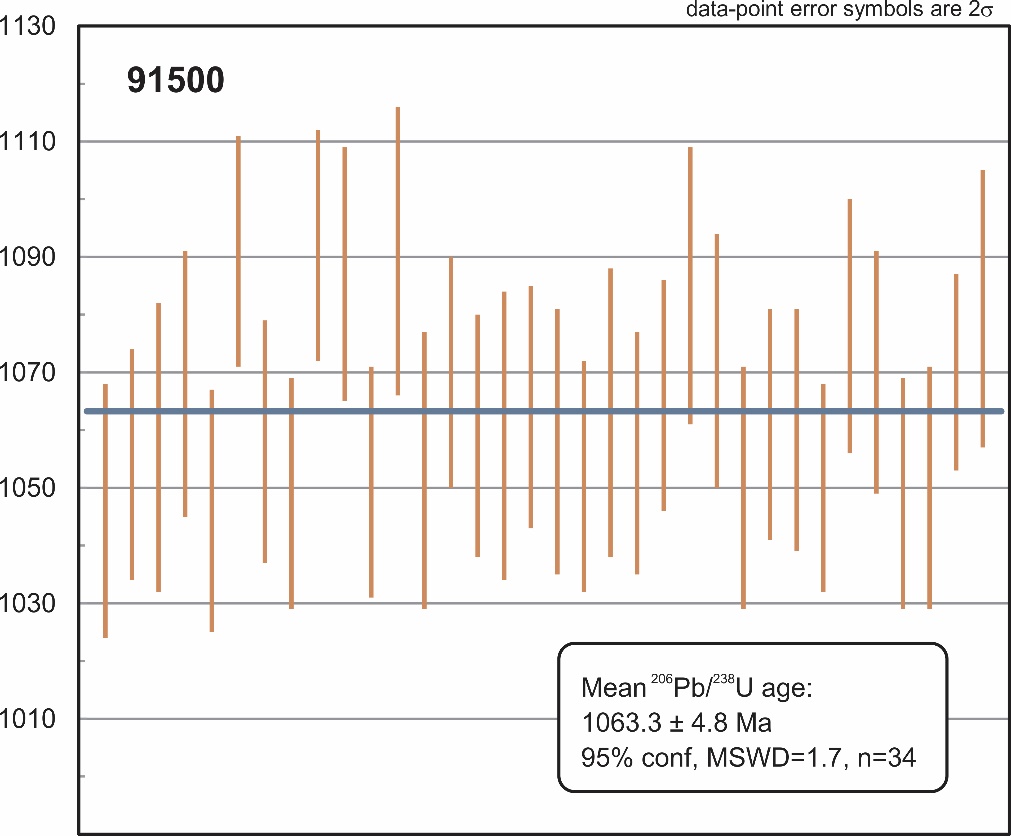


Figure S3. Weighted mean 206Pb/238U age of the standard 91500.

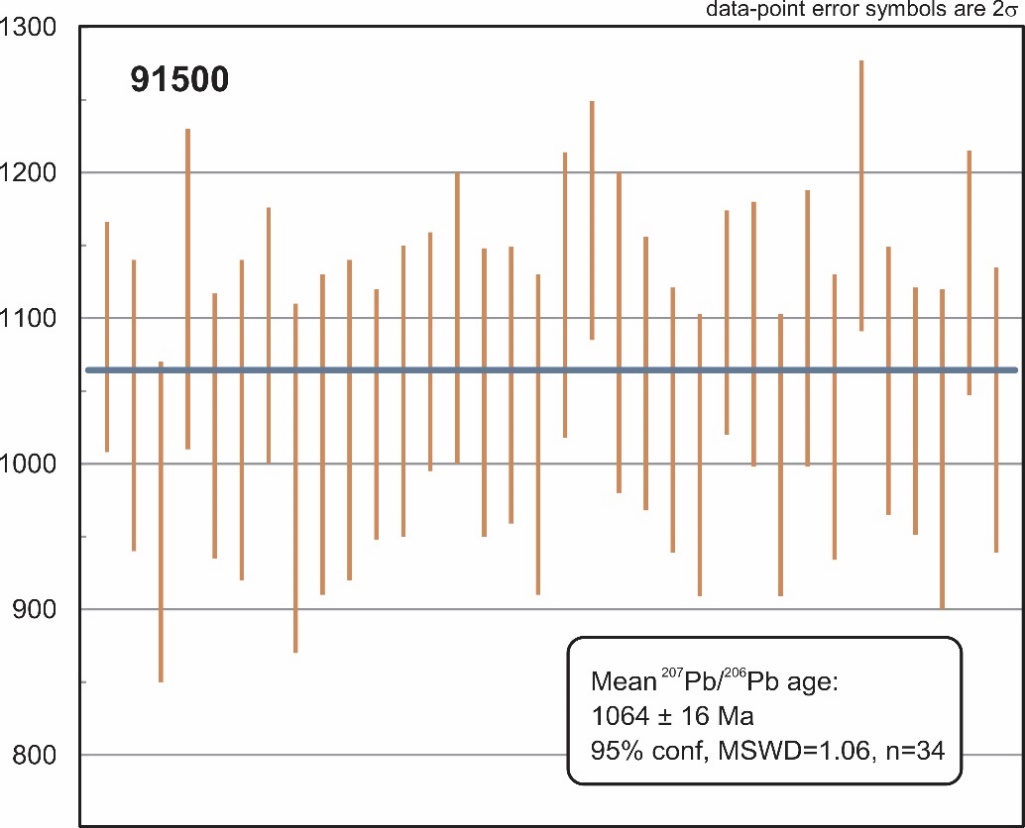


Figure S4. Weighted mean 207Pb/206Pb age of the standard 91500.

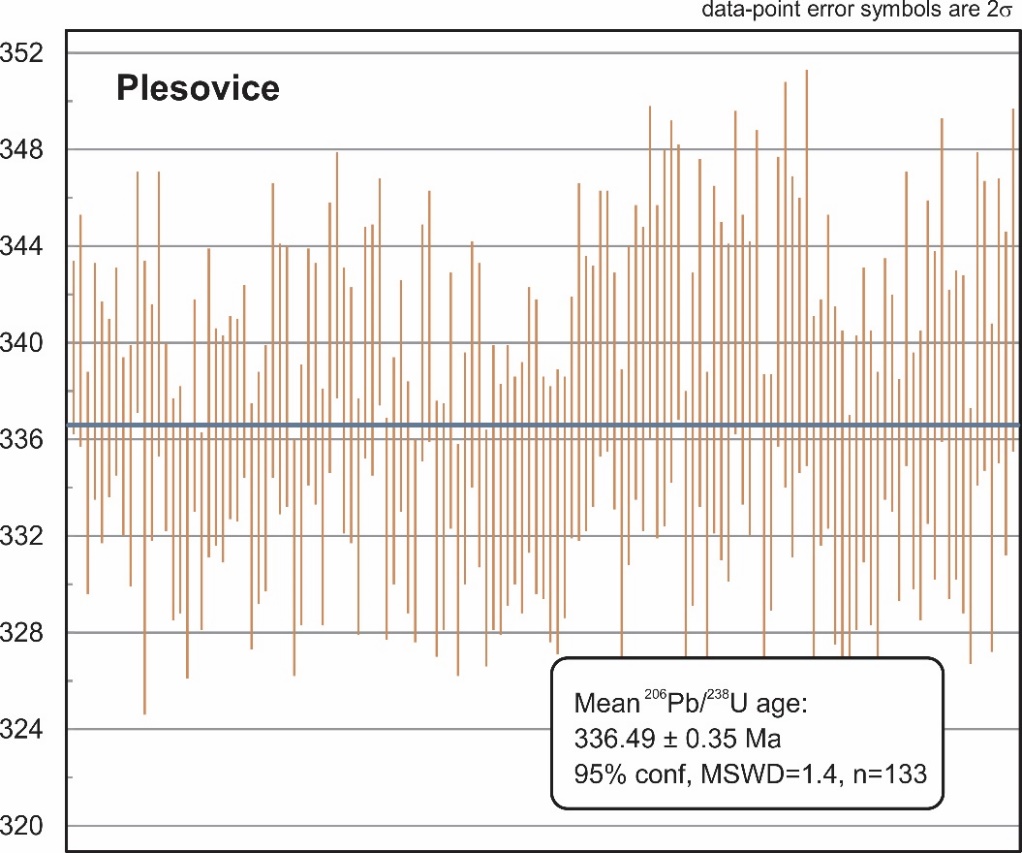


Figure S5. Weighted mean 206Pb/238U age of the standard Plesovice.

The Mudtank zircon standard was used to monitor the instrument stability and data quality for hafnium isotope analysis. This yielded a weighted mean 176Hf/177Hf ratio of 0.282499 ± 14 (2σ, n=10; Table S4), which is in accordance with the published value of 0.282507 ± 6 (Woodhead & Hergt, 2005).

Table S3 Results of analysed zircon U–Pb standards

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Sample | Spot | 207Pb/  235U | 2SD | 206Pb/  238U | 2SD | Rho | 207Pb/235U (Ma) | 2SD | 207Pb/235U (Ma) | 2SD | 207Pb/235U (Ma) | 2SD |
| Plesovice | 101-Ples | 0.399 | 0.009 | 0.054 | 0.001 | 0.524 | 340.5 | 6.6 | 339.8 | 3.6 | 333 | 44 |
|  | 111-Ples | 0.401 | 0.008 | 0.054 | 0.001 | 0.466 | 341.9 | 5.7 | 340.5 | 4.8 | 366 | 46 |
|  | 131-Ples | 0.395 | 0.009 | 0.053 | 0.001 | 0.180 | 339.4 | 6.4 | 334.2 | 4.6 | 334 | 58 |
|  | 1032-Ples | 0.396 | 0.009 | 0.054 | 0.001 | 0.423 | 339.4 | 6.7 | 338.4 | 4.9 | 351 | 49 |
|  | 1053-Ples | 0.395 | 0.008 | 0.054 | 0.001 | 0.408 | 337.4 | 5.8 | 336.7 | 5 | 361 | 48 |
|  | 1054-Ples | 0.393 | 0.009 | 0.054 | 0.001 | 0.098 | 337.1 | 6.5 | 337.3 | 3.7 | 321 | 56 |
|  | 1076-Ples | 0.395 | 0.007 | 0.054 | 0.001 | 0.358 | 338.7 | 5.5 | 338.8 | 4.3 | 339 | 39 |
|  | 1102-Ples | 0.389 | 0.007 | 0.053 | 0.001 | 0.331 | 333.9 | 4.9 | 335.7 | 3.7 | 308 | 39 |
|  | 1103-Ples | 0.393 | 0.009 | 0.053 | 0.001 | 0.207 | 336.8 | 6.2 | 334.9 | 5 | 347 | 55 |
|  | 110-Ples | 0.394 | 0.010 | 0.055 | 0.001 | 0.391 | 337.4 | 7.6 | 342.1 | 5 | 312 | 52 |
|  | 111-Ples | 0.399 | 0.022 | 0.053 | 0.002 | 0.444 | 340 | 16 | 334 | 9.4 | 313 | 97 |
|  | 1130-Ples | 0.395 | 0.010 | 0.054 | 0.001 | 0.137 | 338.8 | 7.5 | 336.7 | 4.9 | 358 | 61 |
|  | 114-Ples | 0.399 | 0.012 | 0.054 | 0.001 | 0.245 | 341.3 | 8.7 | 341.2 | 5.9 | 318 | 65 |
|  | 1151-Ples | 0.401 | 0.010 | 0.054 | 0.001 | 0.435 | 343.6 | 7.3 | 336.1 | 3.9 | 359 | 48 |
|  | 1152-Ples | 0.385 | 0.009 | 0.053 | 0.001 | 0.080 | 331.1 | 6.8 | 333.1 | 4.6 | 319 | 61 |
|  | 115-Ples | 0.396 | 0.014 | 0.053 | 0.001 | 0.158 | 338 | 10 | 333.5 | 4.7 | 366 | 81 |
|  | 1173-Ples | 0.385 | 0.011 | 0.053 | 0.001 | 0.128 | 330.1 | 8.3 | 331.3 | 5.2 | 342 | 68 |
|  | 1174-Ples | 0.396 | 0.009 | 0.054 | 0.001 | 0.427 | 339.1 | 6.3 | 337.4 | 4.4 | 345 | 45 |
|  | 1195-Ples | 0.389 | 0.007 | 0.053 | 0.001 | 0.328 | 334.3 | 4.9 | 332.2 | 4.1 | 344 | 41 |
|  | 1217-Ples | 0.398 | 0.012 | 0.054 | 0.001 | 0.481 | 340 | 8.9 | 337.5 | 6.4 | 342 | 62 |
|  | 1218-Ples | 0.391 | 0.009 | 0.054 | 0.001 | 0.556 | 334.6 | 6.2 | 336.1 | 4.5 | 318 | 39 |
|  | 1239-Ples | 0.398 | 0.007 | 0.053 | 0.001 | 0.240 | 340.1 | 5.1 | 335.6 | 4.7 | 381 | 45 |
|  | 1240-Ples | 0.400 | 0.008 | 0.054 | 0.001 | 0.329 | 341.6 | 5.7 | 336.9 | 4.2 | 362 | 45 |
|  | 1261-Ples | 0.399 | 0.008 | 0.054 | 0.001 | 0.512 | 340.5 | 5.9 | 336.8 | 4.2 | 362 | 41 |
|  | 1295-Ples | 0.405 | 0.009 | 0.054 | 0.001 | 0.408 | 344.8 | 6.8 | 338.4 | 4 | 381 | 48 |
|  | 132-Ples | 0.390 | 0.012 | 0.053 | 0.001 | 0.240 | 334.9 | 8.7 | 332.4 | 5.1 | 350 | 69 |
|  | 137-Ples | 0.394 | 0.010 | 0.053 | 0.001 | 0.149 | 339.1 | 7.9 | 334 | 4.8 | 357 | 63 |
|  | 153-Ples | 0.395 | 0.010 | 0.053 | 0.001 | 0.172 | 337.4 | 7.1 | 334.8 | 5.1 | 370 | 61 |
|  | 159-Ples | 0.399 | 0.013 | 0.054 | 0.001 | 0.273 | 340.1 | 9.4 | 340.5 | 6.1 | 320 | 75 |
|  | 160-Ples | 0.399 | 0.012 | 0.054 | 0.001 | 0.181 | 339.9 | 9 | 338.5 | 5.6 | 343 | 68 |
|  | 178-Ples | 0.393 | 0.010 | 0.054 | 0.001 | 0.409 | 336.8 | 7.4 | 338.6 | 5.4 | 328 | 56 |
|  | 179-Ples | 0.399 | 0.011 | 0.053 | 0.001 | 0.297 | 340.7 | 7.8 | 331.1 | 4.9 | 396 | 62 |
|  | 181-Ples | 0.394 | 0.014 | 0.053 | 0.001 | 0.309 | 336 | 10 | 333.7 | 5.4 | 361 | 77 |
|  | 182-Ples | 0.393 | 0.011 | 0.054 | 0.001 | 0.083 | 339.9 | 8.9 | 339 | 4.9 | 338 | 70 |
|  | 199-Ples | 0.390 | 0.012 | 0.054 | 0.001 | 0.192 | 333.5 | 8.7 | 338.3 | 5 | 310 | 63 |
|  | 200-Ples | 0.390 | 0.009 | 0.053 | 0.001 | 0.325 | 333.9 | 6.4 | 333.2 | 4.9 | 326 | 54 |
|  | 220-Ples | 0.402 | 0.011 | 0.054 | 0.001 | 0.227 | 343.7 | 7.6 | 340.2 | 5.6 | 352 | 61 |
|  | 230-Ples | 0.391 | 0.012 | 0.055 | 0.001 | 0.211 | 334.6 | 8.4 | 342.8 | 5.1 | 285 | 70 |
|  | 231-Ples | 0.387 | 0.012 | 0.054 | 0.001 | 0.296 | 333.4 | 8.7 | 337.6 | 5.5 | 280 | 64 |
|  | 296-Ples | 0.395 | 0.011 | 0.054 | 0.001 | 0.208 | 337.5 | 7.8 | 337 | 5.3 | 353 | 56 |
|  | 304-Ples | 0.398 | 0.010 | 0.053 | 0.001 | 0.214 | 340.7 | 7.1 | 332.8 | 4.9 | 360 | 63 |
|  | 318-Ples | 0.394 | 0.010 | 0.054 | 0.001 | 0.344 | 336.8 | 7.1 | 340 | 4.8 | 299 | 53 |
|  | 319-Ples | 0.395 | 0.011 | 0.054 | 0.001 | 0.108 | 339.3 | 7.8 | 339.7 | 5.2 | 325 | 66 |
|  | 341-Ples | 0.450 | 0.015 | 0.055 | 0.001 | 0.267 | 376 | 11 | 342.1 | 4.7 | 595 | 70 |
|  | 346-Ples | 0.380 | 0.012 | 0.053 | 0.001 | 0.416 | 326 | 8.5 | 332.3 | 4.6 | 249 | 60 |
|  | 364-Ples | 0.399 | 0.009 | 0.053 | 0.001 | 0.305 | 340.6 | 6.7 | 334.7 | 4.7 | 363 | 54 |
|  | 365-Ples | 0.382 | 0.012 | 0.054 | 0.001 | 0.204 | 329 | 9.1 | 337.8 | 4.8 | 261 | 72 |
|  | 367-Ples | 0.376 | 0.011 | 0.053 | 0.001 | -0.002 | 325.4 | 8.2 | 333.6 | 4.8 | 250 | 73 |
|  | 389-Ples | 0.388 | 0.011 | 0.053 | 0.001 | 0.130 | 332.5 | 8.1 | 331.8 | 4.2 | 322 | 66 |
|  | 389-Ples | 0.391 | 0.014 | 0.054 | 0.001 | 0.414 | 334 | 10 | 340 | 4.9 | 308 | 72 |
|  | 390-Ples | 0.395 | 0.013 | 0.054 | 0.001 | 0.336 | 337.5 | 9.7 | 341.1 | 5.2 | 304 | 71 |
|  | 409-Ples | 0.386 | 0.009 | 0.053 | 0.001 | 0.224 | 331.2 | 6.8 | 332.3 | 5.3 | 311 | 60 |
|  | 410-Ples | 0.383 | 0.012 | 0.053 | 0.001 | 0.481 | 328.8 | 8.4 | 332.8 | 4.7 | 312 | 59 |
|  | 412-Ples | 0.401 | 0.016 | 0.054 | 0.001 | 0.174 | 341 | 11 | 337.6 | 5.3 | 357 | 86 |
|  | 430-Ples | 0.374 | 0.010 | 0.053 | 0.001 | 0.416 | 323.3 | 7.4 | 331 | 4.8 | 256 | 55 |
|  | 434-Ples | 0.388 | 0.013 | 0.053 | 0.001 | 0.367 | 331.9 | 9.4 | 334.8 | 4.8 | 282 | 67 |
|  | 455-Ples | 0.403 | 0.013 | 0.054 | 0.001 | -0.015 | 344 | 9.5 | 339.1 | 5.1 | 342 | 82 |
|  | 473-Ples | 0.398 | 0.011 | 0.054 | 0.001 | 0.402 | 339.3 | 7.7 | 337 | 6.3 | 369 | 58 |
|  | 477-Ples | 0.392 | 0.012 | 0.053 | 0.001 | 0.207 | 335.4 | 8.9 | 331.5 | 4.9 | 347 | 66 |
|  | 494-Ples | 0.382 | 0.009 | 0.053 | 0.001 | 0.339 | 330.2 | 6.5 | 334 | 5.9 | 301 | 56 |
|  | 514-Ples | 0.384 | 0.012 | 0.053 | 0.001 | 0.250 | 330.7 | 9.3 | 333.1 | 5.2 | 288 | 71 |
|  | 515-Ples | 0.395 | 0.010 | 0.053 | 0.001 | 0.196 | 338.1 | 7.7 | 334.5 | 5.4 | 347 | 66 |
|  | 521-Ples | 0.389 | 0.013 | 0.053 | 0.001 | 0.127 | 333 | 9.6 | 334.3 | 4.3 | 343 | 77 |
|  | 557-Ples | 0.384 | 0.010 | 0.053 | 0.001 | 0.314 | 332.4 | 7.3 | 334 | 5.2 | 301 | 59 |
|  | 577-Ples | 0.399 | 0.011 | 0.054 | 0.001 | 0.298 | 340.2 | 7.7 | 336.8 | 5.5 | 332 | 61 |
|  | 578-Ples | 0.406 | 0.011 | 0.053 | 0.001 | 0.328 | 345.3 | 7.6 | 335.7 | 6.1 | 353 | 55 |
|  | 589-Ples | 0.394 | 0.011 | 0.053 | 0.001 | 0.260 | 336.6 | 8.4 | 334 | 4.6 | 371 | 66 |
|  | 684-Ples | 0.385 | 0.009 | 0.053 | 0.001 | 0.324 | 330.1 | 6.8 | 332.9 | 5.3 | 310 | 56 |
|  | 68-Ples | 0.396 | 0.014 | 0.053 | 0.001 | 0.297 | 338 | 10 | 333 | 5.9 | 332 | 82 |
|  | 69-Ples | 0.394 | 0.013 | 0.053 | 0.001 | 0.101 | 336.3 | 9.7 | 333.6 | 5 | 335 | 81 |
|  | 704-Ples | 0.387 | 0.010 | 0.054 | 0.001 | 0.290 | 331.7 | 7.3 | 336.9 | 5 | 283 | 58 |
|  | Ples001 | 0.375 | 0.018 | 0.054 | 0.001 | 0.166 | 322 | 13 | 339.2 | 7.4 | 276 | 96 |
|  | Ples002 | 0.389 | 0.010 | 0.054 | 0.001 | 0.392 | 333.2 | 7.2 | 337.9 | 5.7 | 348 | 50 |
|  | Ples002 | 0.389 | 0.011 | 0.054 | 0.001 | 0.292 | 334.7 | 7.6 | 338.2 | 5 | 302 | 56 |
|  | Ples003 | 0.396 | 0.014 | 0.054 | 0.001 | 0.171 | 337 | 10 | 340.8 | 5.5 | 315 | 71 |
|  | Ples003 | 0.379 | 0.008 | 0.054 | 0.001 | 0.392 | 326.5 | 6.2 | 340.9 | 5.4 | 275 | 48 |
|  | Ples004 | 0.389 | 0.008 | 0.054 | 0.001 | 0.274 | 333.4 | 6.3 | 338 | 4.9 | 327 | 49 |
|  | Ples005 | 0.364 | 0.015 | 0.053 | 0.001 | 0.036 | 317 | 12 | 332 | 6.9 | 266 | 95 |
|  | Ples005 | 0.392 | 0.015 | 0.054 | 0.001 | 0.224 | 334 | 11 | 337.4 | 6.6 | 363 | 73 |
|  | Ples005 | 0.404 | 0.009 | 0.054 | 0.001 | 0.324 | 343.5 | 6.8 | 339.6 | 6.1 | 336 | 58 |
|  | Ples006 | 0.424 | 0.015 | 0.054 | 0.001 | 0.225 | 357 | 10 | 338.5 | 6.3 | 419 | 72 |
|  | Ples006 | 0.380 | 0.014 | 0.055 | 0.001 | 0.393 | 326 | 10 | 342.9 | 6.9 | 231 | 71 |
|  | Ples007 | 0.373 | 0.014 | 0.054 | 0.001 | 0.273 | 321 | 10 | 338.8 | 6.9 | 246 | 64 |
|  | Ples009 | 0.412 | 0.014 | 0.054 | 0.001 | 0.215 | 350 | 10 | 340.2 | 7.8 | 419 | 82 |
|  | Ples010 | 0.391 | 0.010 | 0.055 | 0.001 | 0.071 | 334.6 | 7.1 | 341.7 | 7.5 | 280 | 55 |
|  | Ples010 | 0.406 | 0.010 | 0.055 | 0.001 | 0.223 | 347 | 7.3 | 342.5 | 5.7 | 292 | 55 |
|  | Ples011 | 0.400 | 0.012 | 0.053 | 0.001 | 0.056 | 344.4 | 8.8 | 331.9 | 6.1 | 339 | 65 |
|  | Ples011 | 0.392 | 0.012 | 0.054 | 0.001 | 0.616 | 334.5 | 8.6 | 336 | 6.9 | 324 | 57 |
|  | Ples011 | 0.391 | 0.015 | 0.054 | 0.001 | 0.120 | 333 | 11 | 340.4 | 7.2 | 315 | 88 |
|  | Ples012 | 0.381 | 0.009 | 0.053 | 0.001 | 0.347 | 327.4 | 6.7 | 332.7 | 6.1 | 282 | 52 |
|  | Ples012 | 0.386 | 0.017 | 0.054 | 0.001 | 0.495 | 328 | 12 | 339.3 | 7.2 | 290 | 90 |
|  | Ples013 | 0.399 | 0.012 | 0.054 | 0.001 | 0.609 | 338.6 | 8.1 | 338 | 7 | 307 | 61 |
|  | Ples014 | 0.399 | 0.012 | 0.054 | 0.001 | 0.584 | 339.5 | 8.7 | 337.1 | 7 | 316 | 63 |
|  | Ples015 | 0.417 | 0.011 | 0.055 | 0.001 | 0.182 | 353.3 | 8 | 342.9 | 6.7 | 354 | 62 |
|  | Ples016 | 0.387 | 0.010 | 0.054 | 0.001 | 0.356 | 332.5 | 7.2 | 339.3 | 6 | 235 | 53 |
|  | Ples017 | 0.402 | 0.011 | 0.054 | 0.001 | 0.399 | 342.3 | 7.9 | 338.1 | 6.1 | 347 | 60 |
|  | Ples019 | 0.409 | 0.016 | 0.055 | 0.001 | 0.321 | 347 | 11 | 342.7 | 6.1 | 333 | 83 |
|  | Ples02 | 0.390 | 0.012 | 0.053 | 0.001 | 0.250 | 333.7 | 8.6 | 332.2 | 6.5 | 342 | 70 |
|  | Ples02 | 0.380 | 0.011 | 0.053 | 0.001 | 0.237 | 326.7 | 8.2 | 333.8 | 4.9 | 324 | 63 |
|  | Ples020 | 0.394 | 0.011 | 0.054 | 0.001 | 0.342 | 336.7 | 8.2 | 341.7 | 6 | 309 | 67 |
|  | Ples021 | 0.404 | 0.018 | 0.055 | 0.001 | 0.299 | 343 | 13 | 342.4 | 8.4 | 292 | 96 |
|  | Ples023 | 0.403 | 0.018 | 0.054 | 0.001 | 0.183 | 343 | 13 | 339 | 7.9 | 340 | 93 |
|  | Ples023 | 0.430 | 0.012 | 0.054 | 0.001 | 0.067 | 361.9 | 8.6 | 340.3 | 5.7 | 457 | 68 |
|  | Ples024 | 0.392 | 0.017 | 0.055 | 0.001 | 0.286 | 338 | 13 | 343.1 | 8.2 | 314 | 87 |
|  | Ples029 | 0.383 | 0.018 | 0.053 | 0.001 | -0.061 | 329 | 13 | 333.9 | 7.2 | 340 | 100 |
|  | Ples03 | 0.378 | 0.012 | 0.054 | 0.001 | 0.400 | 325.7 | 8.5 | 336.7 | 5.1 | 304 | 64 |
|  | Ples03 | 0.402 | 0.016 | 0.054 | 0.001 | 0.305 | 342 | 11 | 338.8 | 6.5 | 343 | 86 |
|  | Ples032 | 0.412 | 0.013 | 0.053 | 0.001 | 0.260 | 348.9 | 9.5 | 334.5 | 7 | 402 | 74 |
|  | Ples036 | 0.450 | 0.020 | 0.053 | 0.001 | 0.453 | 373 | 14 | 333.5 | 7 | 592 | 90 |
|  | Ples04 | 0.415 | 0.013 | 0.053 | 0.001 | 0.343 | 351.6 | 9.3 | 331.7 | 5.3 | 347 | 62 |
|  | Ples04 | 0.364 | 0.012 | 0.053 | 0.001 | 0.100 | 314.3 | 9.2 | 334.2 | 6.1 | 223 | 77 |
|  | Ples06 | 0.390 | 0.013 | 0.054 | 0.001 | 0.126 | 334 | 8.9 | 337 | 6.1 | 289 | 69 |
|  | Ples07 | 0.398 | 0.014 | 0.053 | 0.001 | 0.174 | 338.4 | 9.8 | 334.4 | 6.1 | 307 | 76 |
|  | Ples08 | 0.388 | 0.015 | 0.053 | 0.001 | 0.355 | 330 | 11 | 332.7 | 6.1 | 334 | 79 |
|  | Ples08 | 0.397 | 0.012 | 0.054 | 0.001 | 0.250 | 337.9 | 8.6 | 338.5 | 5 | 338 | 64 |
|  | Ples09 | 0.382 | 0.013 | 0.054 | 0.001 | 0.123 | 324.8 | 8.8 | 337.5 | 4.5 | 287 | 69 |
|  | Ples10 | 0.385 | 0.010 | 0.053 | 0.001 | 0.177 | 329.6 | 7.2 | 333.9 | 4.6 | 318 | 54 |
|  | Ples10 | 0.401 | 0.012 | 0.054 | 0.001 | 0.229 | 340.7 | 8.8 | 341 | 6.1 | 323 | 67 |
|  | Ples12 | 0.422 | 0.015 | 0.053 | 0.001 | 0.192 | 353.6 | 9.6 | 334.7 | 4.9 | 340 | 63 |
|  | Ples13 | 0.390 | 0.014 | 0.053 | 0.001 | 0.496 | 332.3 | 9.8 | 334.5 | 6 | 295 | 71 |
|  | Ples13 | 0.401 | 0.012 | 0.054 | 0.001 | 0.324 | 342.1 | 8.6 | 339.2 | 6.7 | 386 | 66 |
|  | Ples14 | 0.403 | 0.016 | 0.054 | 0.001 | 0.379 | 342 | 12 | 337 | 6.8 | 388 | 86 |
|  | Ples14 | 0.382 | 0.013 | 0.055 | 0.001 | 0.149 | 327 | 9.8 | 342.6 | 6.7 | 299 | 78 |
|  | Ples15 | 0.397 | 0.013 | 0.054 | 0.001 | 0.439 | 337.6 | 9.6 | 335.8 | 6.4 | 338 | 68 |
|  | Ples15 | 0.384 | 0.013 | 0.054 | 0.001 | 0.213 | 330.4 | 9.6 | 336.6 | 6.4 | 309 | 72 |
|  | Ples16 | 0.408 | 0.014 | 0.054 | 0.001 | 0.200 | 346 | 10 | 335.8 | 7 | 315 | 74 |
|  | Ples27 | 0.380 | 0.012 | 0.053 | 0.001 | 0.395 | 324.8 | 8.6 | 332 | 5.3 | 300 | 62 |
|  | Ples27 | 0.398 | 0.014 | 0.054 | 0.001 | 0.499 | 338 | 10 | 341 | 6.9 | 327 | 75 |
|  | Ples29 | 0.412 | 0.013 | 0.054 | 0.001 | 0.458 | 347.1 | 9.3 | 340.7 | 6 | 365 | 69 |
|  | Ples30 | 0.409 | 0.014 | 0.053 | 0.001 | 0.533 | 346 | 10 | 334 | 6.8 | 373 | 73 |
|  | Ples30 | 0.402 | 0.012 | 0.054 | 0.001 | 0.410 | 342.9 | 8.5 | 340.9 | 5.9 | 347 | 61 |
|  | Ples31 | 0.410 | 0.015 | 0.054 | 0.001 | 0.381 | 347 | 11 | 337.9 | 6.7 | 387 | 85 |
|  | Ples32 | 0.418 | 0.016 | 0.055 | 0.001 | 0.385 | 354 | 11 | 342.6 | 7.1 | 315 | 77 |

Table S4 Results of analysed zircon Lu–Hf standard

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Sample | Spot | 176Lu/177Hf | 176Lu/177Hf | 2SD |
| Mudtank | JP\_MTb\_024 | 0.0000193 | 0.2824945 | 0.0000156 |
|  | JP\_MTb\_025 | 0.0000240 | 0.2824982 | 0.0000125 |
|  | JP\_MTb\_026 | 0.0000178 | 0.2825129 | 0.0000128 |
|  | JP\_MTb\_029 | 0.0000198 | 0.2825078 | 0.0000131 |
|  | JP\_MTb\_030 | 0.0000239 | 0.2825043 | 0.0000137 |
|  | JP\_MTb\_031 | 0.0000223 | 0.2825026 | 0.0000161 |
|  | JP\_MTb\_032 | 0.0000225 | 0.2824935 | 0.0000131 |
|  | JP\_MTb\_033 | 0.0000176 | 0.2824864 | 0.0000128 |
|  | JP\_MTb\_27 | 0.0000200 | 0.2825060 | 0.0000144 |
|  | JP\_MTb\_28 | 0.0000217 | 0.2824867 | 0.0000144 |