

Table DR1. Multi-grain chemical abrasion-TIMS U-Pb zircon data

Step	Step T	wt. ^a	U ^b	% tot. U ^c	Isotopic ratios								Dates (Ma)										
					$\frac{^{206}\text{Pb}^{\text{d}}}{^{204}\text{Pb}}$	$\frac{^{208}\text{Pb}^{\text{d}}}{^{206}\text{Pb}}$	$\frac{^{206}\text{Pb}^{\text{*e}}}{^{238}\text{U}}$	% err	$\frac{^{207}\text{Pb}^{\text{*e}}}{^{235}\text{U}}$	% err	$\frac{^{207}\text{Pb}^{\text{*e}}}{^{206}\text{Pb}^{\text{*e}}}$	% err	ρ^{f}	$\frac{^{206}\text{Pb}^{\text{g}}}{^{238}\text{U}}$	2σ	$\frac{^{207}\text{Pb}^{\text{g}}}{^{235}\text{U}}$	2σ	$\frac{^{207}\text{Pb}^{\text{g}}}{^{206}\text{Pb}}$	2σ				
<i>Chugach Mountains</i>																							
<u>0718P01B (1.15 mg, 444 ppm U)^h</u>																							
a	160	0.08	2117	35.1	689	0.10551	0.02573	(0.25)	0.17892	(1.09)	0.05043	(1.06)	0.225	163.8	0.4	167.1	1.7	214.7	24.6				
b	170	0.76	358	53.3	45390	0.09288	0.02859	(0.21)	0.19627	(0.21)	0.04978	(0.04)	0.978	181.7	0.4	182.0	0.4	184.9	1.0				
c	180	0.29	193	11.1	11306	0.09880	0.02848	(0.23)	0.19592	(0.42)	0.04989	(0.35)	0.538	181.0	0.4	181.7	0.7	189.9	8.2				
d	res	0.01	218	0.5	317	0.21204	0.02856	(0.39)	0.20340	(2.68)	0.05165	(2.65)	0.146	181.6	0.7	188.0	4.6	269.8	60.8				
Sample age																							
<u>JMM01 (0.90 mg, 133 ppm U)^h</u>																							
a	160	0.07	219	12.0	119	0.41635	0.02706	(0.70)	0.20205	(6.92)	0.05415	(6.89)	0.101	172.1	1.2	186.9	11.8	377.1	155.3				
b	170	0.17	162	22.9	5380	0.11623	0.02853	(0.22)	0.19583	(0.45)	0.04978	(0.39)	0.488	181.4	0.4	181.6	0.7	184.7	9.1				
c	180	0.16	140	18.3	4903	0.11708	0.02854	(0.22)	0.19912	(0.54)	0.05060	(0.50)	0.409	181.4	0.4	184.4	0.9	222.4	11.5				
d	180	0.28	121	28.4	7239	0.11179	0.02855	(0.21)	0.19625	(0.30)	0.04985	(0.22)	0.705	181.5	0.4	181.9	0.5	187.8	5.0				
e	190	0.13	101	11.2	2913	0.11902	0.02859	(0.22)	0.19304	(0.70)	0.04898	(0.66)	0.320	181.7	0.4	179.2	1.1	146.7	15.5				
f	res	0.09	91	7.2	1770	0.12898	0.02857	(0.23)	0.19735	(0.96)	0.05009	(0.93)	0.240	181.6	0.4	182.9	1.6	199.2	21.7				
Sample age																							
<u>0717B03 (0.70 mg, 107 ppm U)^h</u>																							
a	120	<0.01	685	0.9																			
b	160	0.01	371	3.7	413	0.15110	0.02534	(0.38)	0.18503	(2.66)	0.05296	(2.63)	0.143	161.3	0.6	172.4	4.2	327.0	59.7				
c	170	0.02	257	6.8	1727	0.09278	0.02843	(0.26)	0.19965	(1.17)	0.05093	(1.14)	0.227	180.7	0.5	184.8	2.0	237.5	26.2				
d	180	0.05	192	13.2	3974	0.09189	0.02894	(0.22)	0.19905	(0.69)	0.04988	(0.66)	0.312	183.9	0.4	184.3	1.2	189.4	15.3				
e	200	0.62	91	75.4	13042	0.10888	0.02899	(0.21)	0.19900	(0.24)	0.04979	(0.12)	0.871	184.2	0.4	184.3	0.4	185.0	2.7				
Sample age																							
<u>0720G02 (2.05 mg, 520 ppm U)^h</u>																							
a	120	0.01	3460	3.0	24	1.65543	0.02603	(11.70)															
b	160	0.06	1320	7.7	812	0.19544	0.02806	(0.24)	0.19457	(0.94)	0.05029	(0.91)	0.256	178.4	0.4	180.5	1.6	208.6	21.0				
c	170	0.07	932	6.3	5591	0.14606	0.02927	(0.21)	0.20097	(0.26)	0.04980	(0.15)	0.810	186.0	0.4	185.9	0.4	185.5	3.6				
d	180	0.11	811	8.0	12586	0.13938	0.02925	(0.21)	0.20067	(0.22)	0.04975	(0.08)	0.937	185.9	0.4	185.7	0.4	183.3	1.8				
e	200	1.80	444	74.9	62641	0.12933	0.02935	(0.21)	0.20169	(0.21)	0.04984	(0.03)	0.987	186.5	0.4	186.6	0.4	187.4	0.8				
Sample age																							
<u>2714M02 (1.18 mg, 464 ppm U)^h</u>																							
a	160	0.10	2006	38.0	864	0.10728	0.02468	(0.23)	0.16836	(0.89)	0.04947	(0.86)	0.263	157.2	0.4	158.0	1.3	170.3	20.1				

Step	Step T	wt. ^a	U ^b	% tot. U ^c	Isotopic ratios								Dates (Ma)						
					$\frac{^{206}\text{Pb}^{\text{d}}}{^{204}\text{Pb}}$	$\frac{^{208}\text{Pb}^{\text{d}}}{^{206}\text{Pb}}$	$\frac{^{206}\text{Pb}^{\text{*e}}}{^{238}\text{U}}$	% err	$\frac{^{207}\text{Pb}^{\text{*e}}}{^{235}\text{U}}$	% err	$\frac{^{207}\text{Pb}^{\text{*e}}}{^{206}\text{Pb}^{\text{*}}}$	% err	ρ^{f}	$\frac{^{206}\text{Pb}^{\text{g}}}{^{238}\text{U}}$	2σ	$\frac{^{207}\text{Pb}^{\text{g}}}{^{235}\text{U}}$	2σ	$\frac{^{207}\text{Pb}^{\text{g}}}{^{206}\text{Pb}}$	2σ
b	170	0.19	473	16.4	17137	0.08233	0.02937	(0.21)	0.20207	(0.23)	0.04990	(0.10)	0.903	186.6	0.4	186.9	0.4	190.1	2.3
c	180	0.18	369	12.4	16084	0.09011	0.02930	(0.21)	0.20172	(0.24)	0.04993	(0.11)	0.882	186.2	0.4	186.6	0.4	191.5	2.6
d	180	0.47	246	21.2	24174	0.09610	0.02928	(0.21)	0.20139	(0.23)	0.04989	(0.09)	0.925	186.0	0.4	186.3	0.4	190.0	2.0
e	190	0.18	287	9.4	9664	0.10382	0.02928	(0.21)	0.20145	(0.25)	0.04990	(0.14)	0.833	186.0	0.4	186.4	0.4	190.2	3.2
f	res	0.05	283	2.7	3411	0.11496	0.02932	(0.22)	0.20100	(0.61)	0.04972	(0.57)	0.353	186.3	0.4	186.0	1.0	181.8	13.3
Sample age															186.1	0.3	(weighted mean of steps c–f)		
<u>0719P05B (1.01 mg, 677 ppm U)^h</u>																			
a	120	0.02	6943	15.5	743	0.11125	0.02584	(0.25)	0.17884	(0.74)	0.05020	(0.70)	0.330	164.4	0.4	167.1	1.1	204.2	16.3
b	160	0.08	1929	22.2	11404	0.06868	0.03028	(0.21)	0.20902	(0.22)	0.05007	(0.08)	0.939	192.3	0.4	192.7	0.4	198.1	1.8
c	170	0.08	1243	14.0	25571	0.08478	0.03045	(0.21)	0.21013	(0.22)	0.05004	(0.07)	0.949	193.4	0.4	193.7	0.4	196.9	1.6
d	180	0.12	746	13.2	21828	0.08585	0.03042	(0.21)	0.20974	(0.21)	0.05001	(0.06)	0.965	193.2	0.4	193.3	0.4	195.4	1.3
e	200	0.72	334	35.0	50785	0.08013	0.03044	(0.21)	0.20985	(0.21)	0.05000	(0.04)	0.981	193.3	0.4	193.4	0.4	195.2	1.0
Sample age															193.3	0.4	(weighted mean of steps c–e)		
<u>2717M04 (1.74 mg, 507 ppm U)^h</u>																			
a	160	0.16	1512	27.4	1473	0.11667	0.02963	(0.22)	0.20426	(0.54)	0.04999	(0.49)	0.410	188.2	0.4	188.7	0.9	194.7	11.5
b	170	0.39	653	29.0	39924	0.08062	0.03052	(0.21)	0.21049	(0.22)	0.05002	(0.06)	0.967	193.8	0.4	194.0	0.4	196.1	1.3
c	180	0.34	456	17.8	26666	0.06671	0.03048	(0.21)	0.21051	(0.23)	0.05008	(0.09)	0.918	193.6	0.4	194.0	0.4	198.8	2.1
d	180	0.65	278	20.5	41164	0.05659	0.03057	(0.21)	0.21059	(0.22)	0.04996	(0.06)	0.964	194.1	0.4	194.1	0.4	193.0	1.3
e	190	0.13	283	4.3	11122	0.05454	0.03057	(0.21)	0.21049	(0.26)	0.04994	(0.15)	0.806	194.1	0.4	194.0	0.5	192.4	3.6
f	res	0.06	148	1.0	1618	0.07484	0.03059	(0.23)	0.21702	(0.73)	0.05146	(0.69)	0.310	194.2	0.4	199.4	1.3	261.5	15.9
Sample age															193.9	0.5	(weighted mean of steps b–e)		
<u>0715P07 (0.21 mg, 119 ppm U)^h</u>																			
a	160	0.01	99	4.6	26	1.43846	0.02770	(8.95)						176.1	15.6				
b	170	0.04	99	16.9	866	0.09525	0.03100	(0.27)	0.21271	(1.46)	0.04976	(1.43)	0.187	196.8	0.5	195.8	2.6	183.9	33.3
c	180	0.08	114	35.9	1203	0.08875	0.03171	(0.30)	0.22309	(0.92)	0.05103	(0.87)	0.330	201.2	0.6	204.5	1.7	242.1	20.0
d	res	0.08	137	42.6	2291	0.07436	0.03180	(0.22)	0.21988	(0.56)	0.05015	(0.52)	0.399	201.8	0.4	201.8	1.0	201.8	12.0
Sample age															201.8	0.5	(d step)		
<u>0716P01 (0.74 mg, 68 ppm U)^h</u>																			
a	120	<0.01	999	2.5	102	0.45492	0.02697	(1.04)	0.20156	(8.68)	0.05421	(8.62)	0.120	171.5	1.8	186.4	14.8	379.8	194.6
b	160	0.01	153	2.1	946	0.13212	0.02880	(0.26)	0.19973	(1.30)	0.05030	(1.27)	0.202	183.0	0.5	184.9	2.2	208.9	29.5
c	170	0.03	127	8.4	1257		0.02904	(0.77)						184.5	1.4				

Step	Step T	wt. ^a	U ^b	% tot. U ^c	Isotopic ratios								Dates (Ma)							
					$\frac{^{206}\text{Pb}^{\text{d}}}{^{204}\text{Pb}}$	$\frac{^{208}\text{Pb}^{\text{d}}}{^{206}\text{Pb}}$	$\frac{^{206}\text{Pb}^{\text{*e}}}{^{238}\text{U}}$	% err	$\frac{^{207}\text{Pb}^{\text{*e}}}{^{235}\text{U}}$	% err	$\frac{^{207}\text{Pb}^{\text{*e}}}{^{206}\text{Pb}}$	% err	ρ^{f}	$\frac{^{206}\text{Pb}^{\text{g}}}{^{238}\text{U}}$	2 σ	$\frac{^{207}\text{Pb}^{\text{g}}}{^{235}\text{U}}$	2 σ	$\frac{^{207}\text{Pb}^{\text{g}}}{^{206}\text{Pb}}$	2 σ	
e	res	0.66	60	78.7	779	0.15105	0.02913	(0.24)	0.20115	(0.99)	0.05008	(0.96)	0.244		185.1	0.4	186.1	1.7	198.8	22.2
Sample age															185.1	0.5	(e step)			
<u>1719L02 (3.897 mg, 74 ppm U)^h</u>																				
a	120	0.01	498	1.2																
b	160	0.08	176	4.7	2167	0.04717	0.02958	(0.22)	0.20301	(0.56)	0.04978	(0.51)	0.392		187.9	0.4	187.7	1.0	184.7	11.9
c	170	0.21	96	6.9	5816	0.04023	0.03081	(0.21)	0.21321	(0.34)	0.05019	(0.27)	0.627		195.6	0.4	196.2	0.6	203.6	6.2
d	180	0.22	86	6.5	4307	0.04704	0.03106	(0.23)	0.21348	(0.44)	0.04984	(0.38)	0.514		197.2	0.4	196.5	0.8	187.6	8.9
e	200	3.39	69	80.8	53187	0.05388	0.03131	(0.21)	0.21643	(0.21)	0.05014	(0.05)	0.970		198.7	0.4	198.9	0.4	201.5	1.2
Sample age															198.7	0.5	(e step)			
<i>Eastern Talkeetna Mountains</i>																				
<u>1723M09 (2.73 mg, 644 ppm U)^h</u>																				
a	160	0.207	3567	41.9	1439	0.10172	0.02366	(0.22)	0.16129	(0.56)	0.04944	(0.51)	0.398		150.7	0.3	151.8	0.8	168.8	11.9
b	170	0.336	718	13.7	35666	0.08080	0.02733	(0.21)	0.18713	(0.22)	0.04965	(0.07)	0.945		173.8	0.4	174.2	0.4	178.8	1.7
c	180	0.743	424	17.9	53090	0.09188	0.02731	(0.22)	0.18674	(0.22)	0.04959	(0.05)	0.979		173.7	0.4	173.8	0.4	175.9	1.1
d	180	1.049	320	19.1	60205	0.09850	0.02730	(0.21)	0.18670	(0.21)	0.04960	(0.04)	0.978		173.6	0.4	173.8	0.3	176.3	1.0
e	180	0.346	326	6.4	10529	0.10943	0.02733	(0.21)	0.18617	(0.26)	0.04940	(0.15)	0.819		173.8	0.4	173.4	0.4	166.9	3.5
f	res	0.053	336	1.0	5472	0.12270	0.02729	(0.22)	0.18638	(0.46)	0.04953	(0.40)	0.477		173.6	0.4	173.5	0.7	173.0	9.3
Sample age															173.7	0.3	(weighted mean of steps b–f)			
<u>1721M01 (13.37 mg, 246 ppm U)^h</u>																				
a	120	0.06	11262	20.2																
b	160	0.28	937	8.0	321	0.21279	0.02218	(0.33)	0.15020	(1.70)	0.04911	(1.67)	0.195		141.4	0.5	142.1	2.3	152.9	39.1
c	170	0.24	559	4.0	11291	0.06168	0.02788	(0.21)	0.19149	(0.22)	0.04982	(0.07)	0.941		177.2	0.4	177.9	0.4	186.6	1.7
d	180	0.47	379	5.4	13115	0.07205	0.02764	(0.21)	0.18956	(0.22)	0.04974	(0.08)	0.938		175.8	0.4	176.3	0.4	182.9	1.8
e	180	4.11	227	28.3	14885	0.07886	0.02764	(0.21)	0.18938	(0.22)	0.04970	(0.07)	0.946		175.7	0.4	176.1	0.4	180.8	1.7
f	190	2.58	144	11.3	37764	0.09641	0.02763	(0.21)	0.18908	(0.21)	0.04964	(0.04)	0.985		175.7	0.4	175.8	0.3	178.2	0.9
g	190	1.65	137	6.9	42808	0.11835	0.02764	(0.21)	0.18908	(0.21)	0.04962	(0.04)	0.983		175.7	0.4	175.8	0.3	177.2	0.9
h	200	2.04	132	8.2	24311	0.12554	0.02758	(0.22)	0.18919	(0.23)	0.04976	(0.06)	0.960		175.4	0.4	175.9	0.4	183.6	1.5
i	200	1.11	130	4.4	45540	0.12920	0.02759	(0.22)	0.18875	(0.24)	0.04962	(0.07)	0.948		175.4	0.4	175.6	0.4	177.3	1.7
j	200	0.46	138	1.9	48142	0.13433	0.02759	(0.22)	0.18905	(0.23)	0.04970	(0.07)	0.948		175.4	0.4	175.8	0.4	180.9	1.7
k	res	0.37	122	1.4	20570	0.13927	0.02754	(0.21)	0.18826	(0.26)	0.04959	(0.15)	0.827		175.1	0.4	175.1	0.4	175.6	3.4
Sample age															175.5	0.3	(weighted mean of steps c–k)			

Step	Step T	wt. ^a	U ^b	% tot. U ^c	Isotopic ratios								Dates (Ma)						
					$\frac{^{206}\text{Pb}^{\text{d}}}{^{204}\text{Pb}}$	$\frac{^{208}\text{Pb}^{\text{d}}}{^{206}\text{Pb}}$	$\frac{^{206}\text{Pb}^{\text{*e}}}{^{238}\text{U}}$	% err	$\frac{^{207}\text{Pb}^{\text{*e}}}{^{235}\text{U}}$	% err	$\frac{^{207}\text{Pb}^{\text{*e}}}{^{206}\text{Pb}^{\text{*}}}$	% err	ρ^{f}	$\frac{^{206}\text{Pb}^{\text{g}}}{^{238}\text{U}}$	2σ	$\frac{^{207}\text{Pb}^{\text{g}}}{^{235}\text{U}}$	2σ	$\frac{^{207}\text{Pb}^{\text{g}}}{^{206}\text{Pb}}$	2σ
<u>1723M04 (1.94 mg, 398 ppm U)^h</u>																			
a	160	0.09	2398	27.6	398	0.20873	0.02018	(0.32)	0.13841	(1.94)	0.04974	(1.91)	0.166	128.8	0.4	131.6	2.4	182.8	44.6
b	170	0.12	724	11.8	13509	0.09838	0.02781	(0.21)	0.19065	(0.22)	0.04972	(0.07)	0.947	176.8	0.4	177.2	0.4	181.7	1.6
c	180	0.36	385	18.0	31988	0.11580	0.02786	(0.21)	0.19085	(0.21)	0.04968	(0.04)	0.979	177.1	0.4	177.4	0.3	180.2	1.0
d	180	0.35	288	13.0	15788	0.13076	0.02786	(0.21)	0.19099	(0.22)	0.04972	(0.06)	0.957	177.2	0.4	177.5	0.4	181.8	1.5
e	190	0.46	249	14.9	40394	0.13390	0.02783	(0.21)	0.19078	(0.22)	0.04973	(0.08)	0.937	176.9	0.4	177.3	0.4	182.2	1.8
f	190	0.35	202	9.1	22850	0.13660	0.02775	(0.21)	0.18988	(0.24)	0.04963	(0.11)	0.881	176.4	0.4	176.5	0.4	177.8	2.7
g	res	0.21	211	5.7	12772	0.13945	0.02783	(0.21)	0.19079	(0.24)	0.04973	(0.12)	0.875	176.9	0.4	177.3	0.4	182.4	2.7
Sample age														176.9	0.4	(weighted mean of steps b–g)			
<u>1721M03 (1.49 mg, 438 ppm U)^h</u>																			
a	160	0.16	1634	40.3	497	0.17481	0.02600	(0.27)	0.17940	(1.53)	0.05004	(1.50)	0.176	165.5	0.4	167.5	2.4	197.0	34.9
b	170	0.84	332	42.7	13280	0.13706	0.02797	(0.21)	0.19153	(0.22)	0.04967	(0.07)	0.951	177.8	0.4	177.9	0.4	179.7	1.6
c	180	0.34	221	11.6	5041	0.14074	0.02789	(0.22)	0.19134	(0.28)	0.04976	(0.17)	0.778	177.3	0.4	177.8	0.5	183.6	4.1
d	res	0.15	244	5.4	321	0.24180	0.02789	(0.33)	0.19051	(2.46)	0.04955	(2.44)	0.134	177.3	0.6	177.1	4.0	173.8	56.9
Sample age														177.5	0.8	(weighted mean of steps b–d)			
<u>1723M01 (3.22 mg, 72 ppm U)^h</u>																			
a	160	0.05	99	2.0	43	0.95175	0.02470	(2.63)	0.17480	(36.29)	0.05132	(36.19)	0.072	157.3	4.1	163.6	54.9	255.4	911.1
b	170	0.14	94	5.8	788	0.14999	0.02622	(0.29)	0.18161	(1.40)	0.05023	(1.37)	0.209	166.9	0.5	169.4	2.2	205.9	31.7
c	180	0.69	71	21.1	3808	0.11086	0.02645	(0.23)	0.18346	(0.76)	0.05030	(0.72)	0.303	168.3	0.4	171.0	1.2	208.9	16.8
d	180	0.72	73	22.4	3920	0.11081	0.02656	(0.22)	0.18140	(0.36)	0.04954	(0.29)	0.607	169.0	0.4	169.3	0.6	173.4	6.7
e	180	0.69	72	21.4	4615	0.11048	0.02652	(0.22)	0.18192	(0.32)	0.04976	(0.23)	0.693	168.7	0.4	169.7	0.5	183.6	5.3
f	res	0.93	68	27.2	12747	0.10761	0.02657	(0.21)	0.18120	(0.26)	0.04946	(0.15)	0.823	169.1	0.4	169.1	0.4	169.5	3.4
Sample age														168.9	0.3	(weighted mean of steps d–f)			
<u>1721M05 (8.19 mg, 76 ppm U)^h</u>																			
a	160	0.12	456	8.9	130	0.43973	0.02377	(0.64)	0.15979	(6.93)	0.04875	(6.90)	0.092	151.4	1.0	150.5	9.7	136.0	162.5
b	170	0.57	143	13.0	2150	0.11749	0.02600	(0.22)	0.17697	(0.42)	0.04936	(0.36)	0.522	165.5	0.4	165.5	0.6	164.9	8.4
c	180	2.04	80	26.4	16905	0.09740	0.02658	(0.21)	0.18139	(0.22)	0.04949	(0.06)	0.957	169.1	0.3	169.3	0.3	171.2	1.5
d	180	2.16	61	21.2	21343	0.10282	0.02685	(0.21)	0.18411	(0.23)	0.04974	(0.08)	0.939	170.8	0.4	171.6	0.4	182.7	1.8
e	180	1.97	55	17.4	5828	0.11528	0.02684	(0.21)	0.18383	(0.26)	0.04967	(0.14)	0.831	170.8	0.4	171.3	0.4	179.6	3.3
f	180	0.88	57	8.1	3239	0.12869	0.02689	(0.21)	0.18383	(0.36)	0.04958	(0.29)	0.588	171.1	0.4	171.4	0.6	175.5	6.9
g	res	0.45	67	4.9	6740	0.13204	0.02703	(0.21)	0.18521	(0.33)	0.04969	(0.25)	0.655	172.0	0.4	172.5	0.5	180.3	5.7
Sample age																		(data parallel concordia)	

Step	Step T	wt. ^a	U ^b	% tot. U ^c	Isotopic ratios								Dates (Ma)																								
					$\frac{^{206}\text{Pb}^{\text{d}}}{^{204}\text{Pb}}$	$\frac{^{208}\text{Pb}^{\text{d}}}{^{206}\text{Pb}}$	$\frac{^{206}\text{Pb}^{\text{*e}}}{^{238}\text{U}}$	% err	$\frac{^{207}\text{Pb}^{\text{*e}}}{^{235}\text{U}}$	% err	$\frac{^{207}\text{Pb}^{\text{*e}}}{^{206}\text{Pb}^{\text{*}}}$	% err	ρ^{f}	$\frac{^{206}\text{Pb}^{\text{g}}}{^{238}\text{U}}$	2σ	$\frac{^{207}\text{Pb}^{\text{g}}}{^{235}\text{U}}$	2σ	$\frac{^{207}\text{Pb}^{\text{g}}}{^{206}\text{Pb}}$	2σ																		
<u>1723M07 (5.05 mg, 280 ppm U)^h</u>																																					
a	160	0.12	554	4.8	279	0.32467	0.02629	(0.35)	0.17826	(2.87)	0.04918	(2.84)	0.123	167.3	0.6	166.6	4.4	156.3	66.6																		
b	170	0.40	376	10.7	21552	0.13064	0.02707	(0.21)	0.18521	(0.21)	0.04961	(0.06)	0.966	172.2	0.4	172.5	0.3	177.0	1.3																		
c	180	1.25	296	26.0	90920	0.12683	0.02728	(0.21)	0.18665	(0.21)	0.04961	(0.03)	0.987	173.5	0.4	173.8	0.3	176.9	0.8																		
d	180	0.70	273	13.6	63907	0.13613	0.02734	(0.21)	0.18706	(0.21)	0.04962	(0.04)	0.984	173.9	0.4	174.1	0.3	177.2	0.9																		
e	190	1.29	247	22.5	118610	0.14467	0.02722	(0.23)	0.18604	(0.24)	0.04958	(0.07)	0.959	173.1	0.4	173.2	0.4	175.2	1.6																		
f	190	0.72	241	12.2	45801	0.15868	0.02740	(0.21)	0.18764	(0.22)	0.04967	(0.06)	0.960	174.3	0.4	174.6	0.4	179.5	1.4																		
g	200	0.57	253	10.2	44159	0.17141	0.02742	(0.21)	0.18766	(0.21)	0.04963	(0.04)	0.980	174.4	0.4	174.6	0.3	177.8	1.0																		
Sample age	(data parallel concordia)																																				
<u>1723M08 (24.21 mg, 87 ppm U)^h</u>																																					
a	120	0.02	344	0.3	22	1.72180	0.02112	(20.49)						134.7	27.4																						
b	160	0.26	234	2.9	2355	0.06985	0.02468	(0.21)	0.16952	(0.39)	0.04982	(0.32)	0.555	157.1	0.3	159.0	0.6	186.7	7.5																		
c	170	0.68	158	5.1	8029	0.06434	0.02614	(0.21)	0.17894	(0.24)	0.04964	(0.11)	0.885	166.4	0.3	167.2	0.4	178.3	2.6																		
d	175	1.20	126	7.2	18080	0.06692	0.02649	(0.21)	0.18087	(0.21)	0.04952	(0.06)	0.966	168.6	0.3	168.8	0.3	172.3	1.3																		
e	180	2.50	108	12.8	25296	0.07226	0.02669	(0.21)	0.18226	(0.21)	0.04952	(0.04)	0.977	169.8	0.3	170.0	0.3	172.7	1.0																		
f	185	2.80	88	11.7	43919	0.07719	0.02674	(0.21)	0.18262	(0.21)	0.04954	(0.04)	0.984	170.1	0.3	170.3	0.3	173.3	0.9																		
g	190	3.38	88	14.1	52865	0.08201	0.02676	(0.21)	0.18274	(0.21)	0.04953	(0.04)	0.984	170.2	0.3	170.4	0.3	173.0	0.9																		
h	195	3.77	80	14.3	46401	0.08748	0.02679	(0.21)	0.18305	(0.21)	0.04955	(0.04)	0.981	170.4	0.3	170.7	0.3	173.9	1.0																		
i	195	3.60	72	12.3	46888	0.09306	0.02680	(0.21)	0.18301	(0.21)	0.04952	(0.04)	0.985	170.5	0.3	170.6	0.3	172.4	0.9																		
j	195	2.47	66	7.7	34028	0.09846	0.02685	(0.21)	0.18348	(0.21)	0.04956	(0.04)	0.979	170.8	0.3	171.1	0.3	174.4	1.0																		
k	195	1.96	66	6.1	16729	0.10366	0.02685	(0.21)	0.18341	(0.22)	0.04953	(0.06)	0.959	170.8	0.3	171.0	0.3	173.2	1.4																		
l	200	0.92	70	3.1	8677	0.11059	0.02689	(0.21)	0.18341	(0.24)	0.04948	(0.11)	0.887	171.0	0.4	171.0	0.4	170.4	2.5																		
m	200	0.45	76	1.6	5835	0.11723	0.02689	(0.21)	0.18325	(0.26)	0.04942	(0.16)	0.797	171.1	0.4	170.9	0.4	167.8	3.7																		
n	res	0.20	93	0.9	2062	0.13191	0.02692	(0.22)	0.18399	(0.45)	0.04958	(0.40)	0.478	171.2	0.4	171.5	0.7	175.3	9.3																		
Sample age	(data parallel concordia)																																				
<i>Western Talkeetna Mountains</i>																																					
<u>1721M04 (13.47 mg, 131 ppm U)^h</u>																																					
a	160	0.14	709	5.5	264	0.18097	0.02167	(0.36)	0.14160	(3.16)	0.04738	(3.14)	0.115	138.2	0.5	134.5	4.0	68.6	74.8																		
b	170	0.41	248	5.8	4749	0.06852	0.02467	(0.21)	0.16746	(0.27)	0.04922	(0.17)	0.783	157.1	0.3	157.2	0.4	158.5	3.9																		
c	175	0.73	206	8.5	15082	0.07251	0.02476	(0.21)	0.16839	(0.22)	0.04932	(0.06)	0.957	157.7	0.3	158.0	0.3	163.1	1.5																		
d	180	1.17	183	12.1	21591	0.07774	0.02485	(0.21)	0.16889	(0.21)	0.04930	(0.05)	0.968	158.2	0.3	158.5	0.3	162.3	1.3																		
e	185	1.96	148	16.4	36649	0.08225	0.02489	(0.21)	0.16918	(0.21)	0.04930	(0.04)	0.982	158.5	0.3	158.7	0.3	162.1	0.9																		

Step	Step T	wt. ^a	U ^b	% tot. U ^c	Isotopic ratios									Dates (Ma)							
					$\frac{^{206}\text{Pb}^{\text{d}}}{^{204}\text{Pb}}$	$\frac{^{208}\text{Pb}^{\text{d}}}{^{206}\text{Pb}}$	$\frac{^{206}\text{Pb}^{\text{*e}}}{^{238}\text{U}}$	% err	$\frac{^{207}\text{Pb}^{\text{*e}}}{^{235}\text{U}}$	% err	$\frac{^{207}\text{Pb}^{\text{*e}}}{^{206}\text{Pb}^{\text{*}}}$	% err	ρ^{f}	$\frac{^{206}\text{Pb}^{\text{g}}}{^{238}\text{U}}$	2σ	$\frac{^{207}\text{Pb}^{\text{g}}}{^{235}\text{U}}$	2σ	$\frac{^{207}\text{Pb}^{\text{g}}}{^{206}\text{Pb}}$	2σ		
a	120	<0.01	1600	2.4	163	0.25987	0.03587	(0.52)	0.23604	(5.48)	0.04773	(5.45)	0.095	227.2	1.2	215.2	10.6	85.7	129.5		
b	160	0.05	406	8.7	3981	0.05261	0.03422	(0.22)	0.24496	(1.54)	0.05191	(1.53)	0.143	216.9	0.5	222.5	3.1	281.6	34.9		
c	170	0.11	325	15.7	10705	0.05466	0.03317	(0.21)	0.23354	(0.24)	0.05107	(0.11)	0.879	210.3	0.4	213.1	0.5	244.0	2.6		
d	175	0.20	250	21.0	11670	0.05969	0.03270	(0.21)	0.22936	(0.22)	0.05087	(0.09)	0.924	207.4	0.4	209.7	0.4	234.9	2.0		
e	180	0.40	169	29.3	17901	0.06476	0.03280	(0.21)	0.22996	(0.22)	0.05085	(0.06)	0.961	208.1	0.4	210.2	0.4	233.8	1.4		
f	185	0.21	150	13.5	11054	0.07359	0.03256	(0.21)	0.22785	(0.23)	0.05076	(0.09)	0.910	206.5	0.4	208.4	0.4	230.0	2.2		
g	190	0.10	153	6.7	1710	0.09918	0.03192	(0.22)	0.22290	(0.51)	0.05064	(0.46)	0.428	202.6	0.4	204.3	0.9	224.5	10.7		
h	res	0.06	115	2.7	1183	0.12199	0.02983	(0.23)	0.20752	(0.77)	0.05045	(0.74)	0.295	189.5	0.4	191.5	1.3	216.0	17.1		
Sample age																		(discordant)			
<u>2724M01 (9.68 mg, 149 ppm U)^h</u>																					
a	160	0.18	419	5.3	1243	0.18163	0.02910	(0.23)	0.19932	(0.64)	0.04968	(0.60)	0.354	184.9	0.4	184.6	1.1	180.2	13.9		
b	170	0.52	303	11.0	13953	0.09021	0.03015	(0.21)	0.20770	(0.22)	0.04997	(0.07)	0.949	191.5	0.4	191.6	0.4	193.6	1.6		
c	175	0.79	230	12.5	21314	0.09916	0.03028	(0.21)	0.20880	(0.21)	0.05002	(0.05)	0.969	192.3	0.4	192.5	0.4	195.9	1.2		
d	180	1.15	176	14.0	26421	0.10647	0.03030	(0.21)	0.20893	(0.21)	0.05001	(0.05)	0.976	192.4	0.4	192.7	0.4	195.6	1.1		
e	185	1.76	134	16.4	34061	0.11106	0.03032	(0.21)	0.20907	(0.21)	0.05001	(0.04)	0.982	192.6	0.4	192.8	0.4	195.4	0.9		
f	190	2.15	116	17.3	40931	0.11208	0.03034	(0.21)	0.20928	(0.21)	0.05002	(0.04)	0.984	192.7	0.4	192.9	0.4	196.0	0.9		
g	195	1.80	106	13.3	32509	0.11118	0.03037	(0.21)	0.20952	(0.21)	0.05004	(0.04)	0.981	192.9	0.4	193.1	0.4	196.7	0.9		
h	195	0.82	110	6.2	15364	0.11207	0.03037	(0.21)	0.20960	(0.22)	0.05006	(0.07)	0.948	192.9	0.4	193.2	0.4	197.6	1.6		
i	200	0.37	108	2.8	4029	0.11883	0.03037	(0.21)	0.20915	(0.29)	0.04995	(0.20)	0.718	192.8	0.4	192.8	0.5	192.8	4.7		
j	200	0.11	134	1.0	2410	0.12433	0.03036	(0.22)	0.20944	(0.42)	0.05002	(0.36)	0.517	192.8	0.4	193.1	0.7	196.1	8.3		
k	res	0.03	119	0.3	591	0.16909	0.03034	(0.26)	0.20744	(1.43)	0.04960	(1.41)	0.184	192.6	0.5	191.4	2.5	176.1	32.8		
Sample age																		(data parallel concordia)			
<u>2712M06 (13.283 mg, 109 ppm U)^h</u>																					
a	120	0.03	764	1.7	60	0.72444	0.02732	(1.56)	0.16992	(22.17)	0.04510	(22.12)	0.070	173.8	2.7	159.4	32.7	-50.1	556.8		
b	160	0.40	387	10.8	10993	0.09935	0.02970	(0.21)	0.20468	(0.22)	0.04998	(0.08)	0.938	188.7	0.4	189.1	0.4	194.2	1.8		
c	170	0.80	267	14.8	23384	0.09944	0.02992	(0.21)	0.20591	(0.21)	0.04992	(0.05)	0.969	190.0	0.4	190.1	0.4	191.2	1.2		
d	175	1.42	140	13.7	43032	0.10626	0.03003	(0.21)	0.20698	(0.21)	0.04999	(0.04)	0.984	190.7	0.4	191.0	0.4	194.7	0.9		
e	180	2.68	95	17.5	56313	0.11825	0.03011	(0.21)	0.20755	(0.21)	0.04999	(0.03)	0.986	191.2	0.4	191.5	0.4	194.6	0.8		
f	185	2.40	79	13.0	44356	0.12187	0.03015	(0.21)	0.20784	(0.21)	0.05000	(0.04)	0.985	191.5	0.4	191.7	0.4	194.8	0.9		
g	190	2.40	78	13.0	39641	0.12005	0.03018	(0.21)	0.20788	(0.21)	0.04996	(0.04)	0.983	191.7	0.4	191.8	0.4	193.1	0.9		
h	195	1.77	73	9.0	29698	0.11636	0.03019	(0.21)	0.20802	(0.21)	0.04997	(0.05)	0.977	191.8	0.4	191.9	0.4	193.4	1.1		
i	195	0.84	73	4.2	16114	0.11663	0.03023	(0.21)	0.20824	(0.22)	0.04996	(0.07)	0.950	192.0	0.4	192.1	0.4	193.0	1.6		
j	195	0.34	63	1.5	5414	0.11386	0.03023	(0.21)	0.20804	(0.27)	0.04991	(0.17)	0.773	192.0	0.4	191.9	0.5	190.9	4.0		

Step	Step T	wt. ^a	U ^b	% tot. U ^c	Isotopic ratios								Dates (Ma)						
					$\frac{^{206}\text{Pb}^{\text{d}}}{^{204}\text{Pb}}$	$\frac{^{208}\text{Pb}^{\text{d}}}{^{206}\text{Pb}}$	$\frac{^{206}\text{Pb}^{\text{*e}}}{^{238}\text{U}}$	% err	$\frac{^{207}\text{Pb}^{\text{*e}}}{^{235}\text{U}}$	% err	$\frac{^{207}\text{Pb}^{\text{*e}}}{^{206}\text{Pb}^{\text{*}}}$	% err	ρ^{f}	$\frac{^{206}\text{Pb}^{\text{g}}}{^{238}\text{U}}$	2σ	$\frac{^{207}\text{Pb}^{\text{g}}}{^{235}\text{U}}$	2σ	$\frac{^{207}\text{Pb}^{\text{g}}}{^{206}\text{Pb}}$	2σ
k	195	0.13	72	0.6	1908	0.12290	0.03020	(0.22)	0.20638	(0.53)	0.04956	(0.48)	0.412	191.8	0.4	190.5	0.9	174.5	11.3
1	res	0.07	59	0.3	576	0.16481	0.03018	(0.27)	0.20614	(1.48)	0.04953	(1.46)	0.180	191.7	0.5	190.3	2.6	173.1	34.0
Sample age																			
(data parallel concordia)																			

^a Weight (mg) of zircon dissolved in each digestion step. Weights were determined by ICP-ES analysis of sample solutions and are accurate to ~10%.

^b Uranium concentrations (ppm) of dissolved zircon.

^c Percentage of the total U released by each step.

^d Observed isotopic ratios corrected for fractionation based on replicate analyses of NBS Pb standard 983, and corrected for ^{208}Pb , ^{207}Pb , ^{206}Pb , ^{204}Pb , ^{238}U , and ^{235}U in the $^{205}\text{Pb}/^{235}\text{U}$ spike.

^e Radiogenic $^{207}\text{Pb}/^{206}\text{Pb}$ and $^{206}\text{Pb}/^{238}\text{U}$ ratios corrected for fractionation (see above), spike composition, and common Pb isotopic values. The reported $^{207}\text{Pb}/^{206}\text{Pb}$ and $^{206}\text{Pb}/^{238}\text{U}$ ratios are additionally corrected for initial exclusion of 80% of the ^{230}Th from the ^{238}U decay chain. Two sigma errors, shown in parentheses, follow Mattinson (1987).

^f Correlation coefficient of radiogenic $^{207}\text{Pb}^{\text{*}}/^{235}\text{U}$ and $^{206}\text{Pb}^{\text{*}}/^{238}\text{U}$ were calculated as $\rho = 2\sigma_{206/238}/2\sigma_{207/235}$.

^g Ages (Ma) calculated from the reported ratios using $^{238}\text{U}/^{235}\text{U} = 137.88$, and decay constants of $^{238}\text{U} = 1.5513 \times 10^{-10} \text{ yr}^{-1}$ and $^{235}\text{U} = 9.8485 \times 10^{-10} \text{ yr}^{-1}$. All $^{207}\text{Pb}/^{206}\text{Pb}$ ages were calculated with the Isoplot/Ex program developed by Ludwig (2003). Age uncertainties are 2σ absolute errors.

^h Weight and U content of the total zircon fraction used in the chemical abrasion analysis.

Table DR2. Single-grain chemical abrasion-TIMS U-Pb zircon data

Sample	Isotopic ratios										Dates (Ma)							
	$\frac{\text{Pb}^*}{\text{Pb}_c}$	Pb _c	$\frac{\text{Th}}{\text{U}}$	$\frac{^{206}\text{Pb}^d}{^{204}\text{Pb}}$	$\frac{^{208}\text{Pb}^d}{^{206}\text{Pb}}$	$\frac{^{206}\text{Pb}^*}{^{238}\text{U}}$	% err	$\frac{^{207}\text{Pb}^*}{^{235}\text{U}}$	% err	$\frac{^{207}\text{Pb}^*}{^{206}\text{Pb}^*}$	% err	ρ^f	$\frac{^{206}\text{Pb}^g}{^{238}\text{U}}$	2σ	$\frac{^{207}\text{Pb}^g}{^{235}\text{U}}$	2σ	$\frac{^{207}\text{Pb}^g}{^{206}\text{Pb}}$	2σ
2710 M01																		
Z2	21	0.88	0.17	1382	0.05336	0.03244	(0.15)	0.22458	(0.30)	0.05021	(0.25)	0.550	205.8	0.3	205.7	0.6	204.9	5.8
Z3	15	0.61	0.14	997	0.04411	0.03241	(0.22)	0.22434	(0.58)	0.05020	(0.51)	0.460	205.6	0.5	205.5	1.1	204.4	11.9
Z4	15	0.47	0.09	1038	0.02885	0.03186	(0.24)	0.22090	(0.59)	0.05029	(0.52)	0.461	202.1	0.5	202.7	1.1	208.6	12.1
Z7	11	1.02	0.15	723	0.04905	0.03249	(0.30)	0.22609	(0.55)	0.05047	(0.44)	0.603	206.1	0.6	207.0	1.0	216.7	10.1
Z8	8	0.75	0.15	559	0.04828	0.03194	(0.35)	0.21965	(0.66)	0.04988	(0.54)	0.575	202.7	0.7	201.6	1.2	189.4	12.6
Z11	9	0.46	0.11	608	0.03403	0.03177	(0.32)	0.21987	(0.90)	0.05020	(0.80)	0.460	201.6	0.6	201.8	1.6	204.2	18.6

^a Ratio of radiogenic to common Pb.^b Total common Pb (picograms).^c Th/U ratio calculated from $^{208}\text{Pb}/^{206}\text{Pb}$ and the $^{206}\text{Pb}/^{238}\text{U}$ age of the sample.^d Observed isotopic ratios corrected for fractionation based on replicate analyses of NBS Pb standards 981 and 983, and corrected for ^{208}Pb , ^{207}Pb , ^{206}Pb , ^{204}Pb , ^{238}U , and ^{235}U in the $^{205}\text{Pb}/^{235}\text{U}$ - ^{238}U spike.^e Radiogenic $^{207}\text{Pb}/^{206}\text{Pb}$ and $^{206}\text{Pb}/^{238}\text{U}$ ratios corrected for fractionation (see above), spike composition, and common Pb isotopic values. All common Pb was assumed to be procedural blank. The reported $^{207}\text{Pb}/^{206}\text{Pb}$ and $^{206}\text{Pb}/^{238}\text{U}$ ratios are additionally corrected for initial exclusion of 80% of the ^{230}Th from the ^{238}U decay chain. Two sigma errors, shown in parentheses, follow Ludwig (1980).^f Correlation coefficient of radiogenic $^{207}\text{Pb}^*/^{235}\text{U}$ and $^{206}\text{Pb}^*/^{238}\text{U}$.^g Ages (Ma) calculated from the reported ratios using $^{238}\text{U}/^{235}\text{U} = 137.88$, and decay constants of $^{238}\text{U} = 1.5513 \times 10^{-10} \text{ yr}^{-1}$ and $^{235}\text{U} = 9.8485 \times 10^{-10} \text{ yr}^{-1}$. All $^{207}\text{Pb}/^{206}\text{Pb}$ ages were calculated with the Isoplot/Ex program developed by Ludwig (2003). Age uncertainties are 2σ absolute errors.

Table DR3. Laser ablation-ICP-MS U-Pb zircon data

Sample	Composition				Isotopic ratios						Dates (Ma)					
	U ^a	Th ^a U	$\frac{^{206}\text{Pb}}{^{204}\text{Pb}}$ ^b	$\frac{^{206}\text{Pb}^*\text{c}}{^{238}\text{U}}$	% err	$\frac{^{207}\text{Pb}^*\text{c}}{^{235}\text{U}}$	% err	$\frac{^{207}\text{Pb}^*\text{c}}{^{206}\text{Pb}^*}$	% err	ρ^d	$\frac{^{206}\text{Pb}}{^{238}\text{U}}$ ^e	1 σ	$\frac{^{207}\text{Pb}}{^{235}\text{U}}$ ^e	1 σ	$\frac{^{207}\text{Pb}}{^{206}\text{Pb}}$ ^e	1 σ
<u>1721M05</u>																
1721M05-2	25	0.3	1049	0.02818	(11.8)	0.76713	(24.0)	0.19743	(20.9)	0.50	179.2	20.8	578.1	138.7	2805.1	346.2
1721M05-3	22	0.4	607	0.02333	(6.2)	0.39032	(45.4)	0.12136	(45.0)	0.11	148.6	9.1	334.6	151.9	1976.3	849.7
1721M05-4	52	0.5	2130	0.02757	(4.8)	0.26926	(39.3)	0.07084	(39.0)	0.09	175.3	8.3	242.1	95.1	952.7	828.9
1721M05-5	45	0.4	1614	0.03078	(8.1)	0.18349	(50.0)	0.04324	(49.3)	0.15	195.4	15.6	171.1	85.5	-153.5	1477.5
1721M05-7	81	0.6	1326	0.02695	(2.8)	0.15551	(37.1)	0.04186	(37.0)	0.05	171.4	4.8	146.8	54.5	-235.1	1055.3
1721M05-8	79	0.5	1673	0.02741	(2.5)	0.20066	(25.7)	0.05309	(25.6)	0.04	174.3	4.3	185.7	47.7	332.6	633.8
1721M05-9	44	0.5	1179	0.02895	(4.7)	0.21739	(61.2)	0.05446	(61.0)	0.07	184.0	8.6	199.7	122.2	390.1	1832.0
1721M05-10	38	0.5	1164	0.02411	(4.5)	0.19763	(52.5)	0.05945	(52.3)	0.07	153.6	6.8	183.1	96.1	583.8	1440.0
1721M05-11	68	0.5	2638	0.02650	(3.2)	0.20213	(29.5)	0.05531	(29.4)	0.06	168.6	5.4	186.9	55.2	424.8	729.4
1721M05-12	42	0.4	1613	0.02452	(3.9)	0.29795	(35.6)	0.08813	(35.4)	0.08	156.2	6.0	264.8	94.3	1385.2	702.7
1721M05-13	40	0.4	1122	0.02572	(7.2)	0.29280	(28.9)	0.08258	(28.0)	0.26	163.7	11.7	260.8	75.4	1259.3	557.9
1721M05-14	47	0.4	1304	0.02807	(8.0)	0.33039	(59.3)	0.08537	(58.8)	0.13	178.5	14.1	289.9	171.9	1323.9	1260.3
1721M05-15	37	0.3	1899	0.02567	(8.8)	0.24489	(39.4)	0.06920	(38.4)	0.22	163.4	14.1	222.4	87.6	904.7	821.5
1721M05-16	60	0.5	2036	0.02651	(4.2)	0.18752	(51.8)	0.05130	(51.6)	0.06	168.7	6.9	174.5	90.4	254.1	1478.8
1721M05-17	71	0.5	2103	0.02614	(3.5)	0.17472	(43.5)	0.04848	(43.4)	0.04	166.3	5.7	163.5	71.1	122.8	1206.2
1721M05-18	23	0.4	683	0.02635	(8.5)	0.26708	(50.4)	0.07352	(49.7)	0.16	167.7	14.0	240.4	121.1	1028.2	1073.2
1721M05-19	35	0.5	1168	0.02871	(5.3)	0.34205	(42.3)	0.08641	(42.0)	0.11	182.5	9.5	298.7	126.4	1347.3	849.6
1721M05-21	42	0.5	1493	0.02759	(9.3)	0.21059	(62.1)	0.05535	(61.4)	0.15	175.5	16.1	194.0	120.5	426.6	1841.0
1721M05-24	58	0.4	1863	0.02829	(3.1)	0.28761	(30.3)	0.07374	(30.1)	0.07	179.8	5.6	256.7	77.7	1034.4	622.0
1721M05-25	51	0.5	1689	0.02889	(6.6)	0.22967	(53.9)	0.05765	(53.5)	0.12	183.6	11.9	209.9	113.2	516.5	1498.8
1721M05-26	50	0.5	1879	0.02792	(5.7)	0.31956	(30.3)	0.08302	(29.7)	0.18	177.5	10.0	281.6	85.3	1269.7	593.8
1721M05-27	47	0.5	1652	0.02809	(6.8)	0.28796	(41.5)	0.07435	(41.0)	0.16	178.6	11.9	257.0	106.8	1051.0	862.8
1721M05-29	45	0.5	1718	0.02522	(3.2)	0.22111	(43.2)	0.06359	(43.0)	0.05	160.6	5.1	202.8	87.6	727.9	1098.5
1721M05-30	59	0.6	1527	0.02693	(3.4)	0.22843	(49.0)	0.06153	(48.9)	0.05	171.3	5.7	208.9	102.4	657.7	1303.8
1721M05-31	30	0.4	966	0.02628	(9.1)	0.57308	(28.0)	0.15813	(26.5)	0.32	167.2	15.0	460.0	128.6	2435.8	457.0
1721M05-33	64	0.5	1554	0.02636	(3.0)	0.26002	(37.3)	0.07153	(37.2)	0.04	167.8	4.9	234.7	87.5	972.5	784.9
1721M05-34	65	0.5	3040	0.02804	(5.1)	0.29502	(21.6)	0.07629	(21.0)	0.22	178.3	9.0	262.5	56.8	1102.8	424.9
1721M05-35	111	0.4	1084	0.02863	(2.9)	0.35945	(26.7)	0.09105	(26.5)	0.07	182.0	5.2	311.8	83.3	1447.6	514.7
1721M05-36	36	0.4	3697	0.02468	(6.7)	0.26428	(58.7)	0.07766	(58.3)	0.11	157.2	10.4	238.1	139.8	1138.3	1280.1
1721M05-37	28	0.4	703	0.02147	(7.4)	0.26301	(50.8)	0.08886	(50.3)	0.14	136.9	10.1	237.1	120.5	1401.2	1034.8
1721M05-38	54	0.5	1975	0.02776	(2.6)	0.28802	(37.6)	0.07526	(37.5)	0.04	176.5	4.4	257.0	96.7	1075.4	781.4
1721M05-39	56	0.5	2437	0.02810	(6.8)	0.21671	(58.2)	0.05594	(57.8)	0.11	178.6	11.9	199.2	116.0	449.8	1684.1

Sample	Composition		Isotopic ratios							Dates (Ma)						
	U ^a	Th ^a / U	$\frac{^{206}\text{Pb}}{^{204}\text{Pb}}$ ^b	$\frac{^{206}\text{Pb}^*}{^{238}\text{U}}$ ^c	% err	$\frac{^{207}\text{Pb}^*}{^{235}\text{U}}$ ^c	% err	$\frac{^{207}\text{Pb}^*}{^{206}\text{Pb}^*}$ ^c	% err	ρ^d	$\frac{^{206}\text{Pb}}{^{238}\text{U}}$ ^e	1 σ	$\frac{^{207}\text{Pb}}{^{235}\text{U}}$ ^e	1 σ	$\frac{^{207}\text{Pb}}{^{206}\text{Pb}}$ ^e	1 σ
1721M05-40	39	0.4	1244	0.02588	(2.7)	0.48782	(20.7)	0.13669	(20.5)	0.08	164.7	4.3	403.4	83.4	2185.7	360.6
1721M05-41	46	0.5	1440	0.02722	(5.4)	0.24852	(39.4)	0.06623	(39.1)	0.13	173.1	9.2	225.4	88.9	813.6	848.4
1721M05-43	21	0.3	1396	0.02727	(11.6)	0.46087	(41.1)	0.12257	(39.4)	0.28	173.4	19.9	384.9	158.0	1994.0	731.5
1721M05-45	48	0.5	947	0.02847	(4.1)	0.59977	(15.5)	0.15277	(15.0)	0.24	181.0	7.3	477.1	74.0	2377.1	256.4
1721M05-46	23	0.3	545	0.02596	(14.3)	0.35942	(44.5)	0.10043	(42.1)	0.32	165.2	23.4	311.8	138.7	1632.0	822.0
1721M05-47	30	0.4	567	0.02390	(5.3)	0.19696	(63.0)	0.05977	(62.7)	0.08	152.3	8.0	182.6	114.9	595.2	1864.8
1721M05-48	32	0.3	1888	0.02507	(10.9)	0.44074	(41.6)	0.12752	(40.1)	0.26	159.6	17.2	370.8	154.2	2064.0	740.9
1721M05-49	30	0.3	1306	0.02338	(3.6)	0.26446	(42.8)	0.08203	(42.6)	0.08	149.0	5.4	238.3	101.9	1246.3	876.0
<u>1723M07</u>																
1723M07-1	322	0.6	5966	0.02680	(4.1)	0.17127	(7.4)	0.04635	(6.1)	0.15	170.5	6.9	160.5	11.8	15.7	150.1
1723M07-2	315	0.5	6271	0.02679	(3.9)	0.19475	(12.5)	0.05272	(11.9)	0.03	170.4	6.6	180.7	22.7	316.7	271.7
1723M07-3	45	0.3	819	0.02874	(6.9)	0.14695	(55.1)	0.03708	(54.6)	0.10	182.7	12.4	139.2	76.7	-550.8	1789.8
1723M07-4	290	0.9	3879	0.02711	(3.7)	0.19286	(12.7)	0.05160	(12.1)	0.06	172.4	6.3	179.1	22.7	267.6	289.1
1723M07-5	291	1.2	4927	0.02659	(3.4)	0.18919	(15.6)	0.05161	(15.2)	0.04	169.1	5.7	175.9	27.5	268.3	367.4
1723M07-6	269	0.8	2897	0.02802	(3.5)	0.21654	(8.2)	0.05605	(7.4)	0.30	178.1	6.1	199.0	16.3	454.5	164.3
1723M07-7	331	1.1	4609	0.02719	(3.2)	0.18923	(15.4)	0.05048	(15.0)	0.03	172.9	5.5	176.0	27.1	217.2	365.2
1723M07-8	310	0.6	3741	0.02718	(3.2)	0.18543	(11.6)	0.04949	(11.1)	0.06	172.8	5.4	172.7	20.0	171.0	268.3
1723M07-9	341	0.9	7392	0.02698	(3.1)	0.20779	(8.9)	0.05585	(8.4)	0.10	171.6	5.2	191.7	17.1	446.3	186.6
1723M07-10	312	0.3	8128	0.02648	(3.0)	0.21110	(8.1)	0.05781	(7.5)	0.14	168.5	5.0	194.5	15.8	522.7	165.4
1723M07-11	234	0.2	5994	0.02620	(3.1)	0.18792	(14.7)	0.05201	(14.4)	0.06	166.7	5.0	174.9	25.7	285.9	344.4
1723M07-12	232	1.1	3639	0.02619	(3.1)	0.19224	(15.6)	0.05323	(15.3)	0.07	166.7	5.1	178.5	27.8	338.5	347.8
1723M07-13	286	0.5	4506	0.02642	(3.1)	0.18877	(12.3)	0.05181	(11.9)	0.07	168.1	5.1	175.6	21.6	277.1	273.8
1723M07-14	133	0.6	2612	0.02601	(3.1)	0.20972	(18.6)	0.05847	(18.4)	0.04	165.5	5.0	193.3	36.0	547.5	404.4
1723M07-15	330	1.1	5972	0.02659	(3.1)	0.17975	(14.4)	0.04904	(14.0)	0.04	169.1	5.1	167.8	24.1	149.6	343.7
1723M07-16	337	0.3	9214	0.02402	(3.6)	0.16389	(22.2)	0.04948	(21.9)	0.09	153.0	5.4	154.1	34.2	170.7	549.6
1723M07-17	302	0.6	5399	0.02618	(3.4)	0.21278	(10.4)	0.05894	(9.8)	0.26	166.6	5.5	195.9	20.3	564.8	214.3
1723M07-18	157	0.6	3426	0.02643	(3.1)	0.26703	(17.1)	0.07328	(16.8)	0.03	168.2	5.1	240.3	41.0	1021.6	342.0
1723M07-19	117	0.5	9495	0.02668	(3.5)	0.22017	(21.7)	0.05986	(21.4)	0.08	169.7	5.8	202.1	43.9	598.4	468.9
1723M07-20	182	0.4	7369	0.02542	(3.1)	0.17407	(24.9)	0.04966	(24.7)	0.03	161.8	5.0	162.9	40.6	179.2	625.7
1723M07-21	107	0.5	3664	0.02775	(3.6)	0.18903	(33.7)	0.04941	(33.5)	0.06	176.4	6.3	175.8	59.2	167.3	882.5
1723M07-22	210	0.6	3518	0.02625	(3.2)	0.18736	(19.5)	0.05177	(19.2)	0.05	167.0	5.2	174.4	34.0	275.3	469.7
1723M07-23	102	0.3	2807	0.02878	(3.4)	0.21282	(19.5)	0.05364	(19.2)	0.09	182.9	6.1	195.9	38.1	355.8	461.6
1723M07-24	359	0.2	8945	0.02628	(3.1)	0.18728	(11.6)	0.05169	(11.2)	0.08	167.2	5.1	174.3	20.3	271.7	257.5

Sample	Composition		Isotopic ratios						Dates (Ma)							
	U ^a	Th ^a / U	$\frac{^{206}\text{Pb}}{^{204}\text{Pb}}$ ^b	$\frac{^{206}\text{Pb}^*\text{e}}{^{238}\text{U}}$ ^c	% err	$\frac{^{207}\text{Pb}^*\text{e}}{^{235}\text{U}}$ ^c	% err	$\frac{^{207}\text{Pb}^*\text{e}}{^{206}\text{Pb}^*}$ ^c	% err	ρ^d	$\frac{^{206}\text{Pb}}{^{238}\text{U}}$ ^e	1 σ	$\frac{^{207}\text{Pb}}{^{235}\text{U}}$ ^e	1 σ	$\frac{^{207}\text{Pb}}{^{206}\text{Pb}}$ ^e	1 σ
1723M07-25	88	0.3	2132	0.02722	(3.5)	0.23355	(23.9)	0.06223	(23.7)	0.08	173.1	6.0	213.1	51.0	682.0	512.3
1723M07-26	140	0.6	4123	0.02547	(3.4)	0.19178	(17.4)	0.05461	(17.1)	0.10	162.1	5.5	178.1	31.0	396.3	385.2
1723M07-27	167	0.5	5466	0.02652	(3.2)	0.16049	(10.7)	0.04390	(10.2)	0.15	168.7	5.3	151.1	16.1	-116.5	258.6
1723M07-28	203	0.5	7091	0.02608	(3.2)	0.19561	(20.0)	0.05440	(19.8)	0.05	165.9	5.3	181.4	36.4	387.8	475.3
1723M07-29	405	0.5	18583	0.02623	(3.1)	0.17561	(8.9)	0.04856	(8.4)	0.38	166.9	5.2	164.3	14.7	126.4	201.9
1723M07-30	181	0.6	5930	0.02603	(3.1)	0.17934	(23.3)	0.04998	(23.1)	0.02	165.6	5.1	167.5	39.1	193.9	580.3
1723M07-31	201	0.3	3067	0.02581	(3.4)	0.17774	(15.3)	0.04994	(15.0)	0.11	164.3	5.5	166.1	25.5	192.3	364.6
1723M07-32	426	0.5	10704	0.02616	(3.1)	0.17755	(12.9)	0.04922	(12.5)	0.07	166.5	5.2	166.0	21.4	158.5	303.9
1723M07-33	192	0.5	1846	0.02552	(3.2)	0.16153	(19.8)	0.04590	(19.6)	0.05	162.5	5.1	152.0	30.1	-7.8	501.6
1723M07-34	469	1.0	6397	0.02632	(3.1)	0.17937	(12.6)	0.04944	(12.3)	0.04	167.4	5.1	167.5	21.2	168.5	297.5
1723M07-35	360	0.6	8261	0.02659	(3.1)	0.17285	(13.8)	0.04715	(13.5)	0.04	169.1	5.2	161.9	22.3	57.0	334.1
1723M07-36	221	0.4	5694	0.02734	(3.3)	0.20975	(13.0)	0.05564	(12.5)	0.12	173.9	5.6	193.3	25.1	437.8	280.2
1723M07-37	258	1.0	5496	0.02660	(3.1)	0.18858	(13.1)	0.05142	(12.7)	0.05	169.2	5.2	175.4	22.9	259.8	303.6
1723M07-38	224	0.6	7082	0.02810	(3.2)	0.18852	(16.8)	0.04866	(16.5)	0.06	178.7	5.6	175.4	29.5	131.3	409.4
1723M07-40	188	0.6	4308	0.02701	(3.1)	0.18344	(20.2)	0.04926	(19.9)	0.04	171.8	5.3	171.0	34.5	160.4	497.5
1723M07-41	117	0.5	3376	0.02745	(3.4)	0.19045	(24.8)	0.05031	(24.6)	0.06	174.6	5.8	177.0	43.9	209.4	619.2
1723M07-42	247	0.6	6959	0.02685	(3.1)	0.19197	(13.4)	0.05186	(13.0)	0.05	170.8	5.2	178.3	23.9	279.0	311.1
1723M07-43	157	0.5	4323	0.02796	(3.2)	0.20283	(19.5)	0.05262	(19.3)	0.06	177.7	5.6	187.5	36.7	312.5	468.0
1723M07-44	227	0.9	3904	0.02648	(3.2)	0.15585	(9.8)	0.04269	(9.2)	0.21	168.5	5.4	147.1	14.4	-185.8	236.7
1723M07-45	376	0.5	7794	0.02716	(3.1)	0.17702	(8.5)	0.04727	(7.9)	0.28	172.7	5.3	165.5	14.0	63.1	192.4
1723M07-46	151	0.7	6220	0.02706	(3.2)	0.18393	(18.1)	0.04930	(17.8)	0.06	172.1	5.4	171.4	31.1	162.1	441.4
1723M07-47	147	0.5	3869	0.02891	(3.8)	0.19285	(22.7)	0.04838	(22.4)	0.11	183.7	6.9	179.1	40.7	117.9	568.6
1723M07-48	119	0.6	3742	0.02731	(3.8)	0.22403	(22.3)	0.05950	(22.0)	0.11	173.7	6.4	205.3	45.8	585.3	482.7
1723M07-49	298	0.3	5057	0.02684	(3.1)	0.16899	(12.1)	0.04566	(11.7)	0.08	170.8	5.2	158.5	19.2	-20.3	292.4
1723M07-50	304	0.2	6840	0.02598	(3.1)	0.16980	(12.8)	0.04740	(12.4)	0.06	165.4	5.0	159.2	20.3	69.3	305.8
1723M08																
1723M08-2	32	0.3	987	0.02775	(10.7)	0.19827	(61.0)	0.05182	(60.1)	0.17	176.5	18.6	183.7	112.1	277.3	1818.2
1723M08-3	100	0.5	1895	0.02701	(3.5)	0.14845	(10.0)	0.03986	(9.4)	0.33	171.8	5.9	140.5	14.0	-360.1	247.8
1723M08-4	29	0.3	936	0.02749	(6.4)	0.25500	(35.5)	0.06727	(34.9)	0.17	174.8	11.1	230.6	81.8	846.2	747.7
1723M08-5	39	0.4	915	0.02822	(3.3)	0.25345	(27.0)	0.06514	(26.8)	0.06	179.4	5.8	229.4	61.9	778.7	572.7
1723M08-6	41	0.4	1646	0.02480	(4.0)	0.20593	(55.6)	0.06022	(55.5)	0.05	157.9	6.2	190.1	105.8	611.5	1556.3
1723M08-7	29	0.4	761	0.02794	(8.2)	0.28989	(41.1)	0.07524	(40.3)	0.19	177.7	14.4	258.5	106.2	1074.9	843.2
1723M08-8	45	0.4	1649	0.02652	(3.2)	0.16224	(41.9)	0.04437	(41.7)	0.04	168.7	5.3	152.7	63.9	-89.8	1189.4

Sample	Composition		Isotopic ratios							Dates (Ma)						
			U ^a	Th ^a / U	$\frac{^{206}\text{Pb}}{^{204}\text{Pb}}$ ^b	$\frac{^{206}\text{Pb}^*}{^{238}\text{U}}$ ^c	% err	$\frac{^{207}\text{Pb}^*}{^{235}\text{U}}$ ^c	% err	$\frac{^{207}\text{Pb}^*}{^{206}\text{Pb}^*}$ ^c	% err	ρ^d	$\frac{^{206}\text{Pb}}{^{238}\text{U}}$ ^e	1 σ	$\frac{^{207}\text{Pb}}{^{235}\text{U}}$ ^e	1 σ
	1723M08-9	34	0.4	916	0.02672	(10.3)	0.15434	(18.3)	0.04189	(15.1)	0.62	170.0	17.3	145.7	26.6	-233.0
1723M08-10	58	0.2	2996	0.02629	(4.6)	0.17031	(12.9)	0.04699	(12.1)	0.40	167.3	7.6	159.7	20.6	48.6	298.9
1723M08-11	26	0.3	449	0.02899	(8.6)	0.27053	(41.5)	0.06768	(40.6)	0.20	184.2	15.7	243.1	101.0	858.7	879.5
1723M08-12	35	0.4	2362	0.02586	(3.8)	0.23090	(10.8)	0.06475	(10.1)	0.41	164.6	6.1	210.9	22.8	766.1	214.1
1723M08-13	41	0.4	1618	0.02596	(3.0)	0.18388	(14.8)	0.05138	(14.5)	0.13	165.2	4.9	171.4	25.4	257.9	349.3
1723M08-14	25	0.2	853	0.02615	(10.0)	0.16155	(30.1)	0.04481	(28.4)	0.34	166.4	16.5	152.1	45.7	-66.0	758.8
1723M08-15	37	0.3	1976	0.02682	(3.6)	0.24207	(26.9)	0.06546	(26.7)	0.10	170.6	6.0	220.1	59.3	789.1	570.3
1723M08-16	37	0.4	2947	0.02716	(2.5)	0.25883	(39.7)	0.06911	(39.6)	0.02	172.8	4.2	233.7	92.8	902.0	850.5
1723M08-17	33	0.4	830	0.02615	(3.2)	0.16059	(53.7)	0.04454	(53.6)	0.05	166.4	5.2	151.2	81.3	-80.6	1630.0
1723M08-18	28	0.3	901	0.02603	(3.8)	0.34929	(41.4)	0.09731	(41.2)	0.08	165.7	6.2	304.2	125.9	1573.3	808.3
1723M08-19	38	0.4	1398	0.02691	(3.5)	0.26902	(46.6)	0.07251	(46.5)	0.06	171.2	5.9	241.9	112.8	1000.3	999.5
1723M08-20	26	0.3	1363	0.02977	(7.3)	0.24505	(18.4)	0.05969	(16.9)	0.43	189.1	13.6	222.5	40.9	592.5	367.8
1723M08-21	36	0.3	908	0.02880	(5.4)	0.23132	(30.8)	0.05824	(30.3)	0.17	183.1	9.8	211.3	65.0	538.9	743.3
1723M08-22	56	0.4	1162	0.02645	(4.6)	0.16852	(45.2)	0.04620	(45.0)	0.09	168.3	7.6	158.1	71.5	8.1	1282.8
1723M08-23	42	0.4	873	0.02736	(6.2)	0.18395	(57.6)	0.04877	(57.3)	0.10	174.0	10.7	171.4	98.8	136.6	1730.4
1723M08-24	34	0.3	1260	0.02491	(3.6)	0.21091	(50.4)	0.06142	(50.2)	0.06	158.6	5.6	194.3	97.8	653.8	1351.9
1723M08-25	40	0.2	1180	0.02651	(2.6)	0.28165	(29.8)	0.07704	(29.7)	0.05	168.7	4.3	252.0	75.0	1122.2	604.4
1723M08-26	34	0.3	784	0.02545	(3.4)	0.17337	(17.4)	0.04941	(17.0)	0.18	162.0	5.4	162.3	28.2	167.4	419.7
1723M08-27	37	0.3	1614	0.02532	(3.2)	0.17452	(56.2)	0.05000	(56.1)	0.04	161.2	5.1	163.3	91.8	194.8	1667.8
1723M08-28	47	0.4	2257	0.02809	(5.8)	0.18599	(15.2)	0.04801	(14.1)	0.44	178.6	10.2	173.2	26.3	99.9	347.1
1723M08-29	62	0.4	1717	0.02668	(4.2)	0.18792	(37.3)	0.05109	(37.1)	0.10	169.7	7.1	174.9	65.3	245.1	981.3
1723M08-30	68	0.2	3415	0.02579	(3.7)	0.18474	(33.2)	0.05196	(33.0)	0.10	164.1	6.0	172.1	57.2	283.5	852.1
1723M08-31	43	0.4	2204	0.02692	(5.1)	0.22708	(47.6)	0.06117	(47.3)	0.10	171.3	8.6	207.8	98.9	645.1	1252.8
1723M08-32	39	0.3	1330	0.02680	(6.1)	0.21533	(46.7)	0.05828	(46.3)	0.13	170.5	10.3	198.0	92.4	540.1	1233.6
1723M08-33	41	0.3	1928	0.02645	(5.5)	0.20688	(49.1)	0.05673	(48.7)	0.11	168.3	9.2	190.9	93.7	481.1	1329.4
1723M08-34	27	0.3	1479	0.02644	(7.1)	0.33870	(26.5)	0.09292	(25.5)	0.27	168.2	11.7	296.2	78.4	1486.3	491.2
1723M08-35	34	0.3	1096	0.02686	(7.2)	0.30765	(37.9)	0.08308	(37.2)	0.19	170.8	12.2	272.4	103.1	1271.1	751.8
1723M08-36	49	0.4	2741	0.02673	(5.5)	0.26293	(35.4)	0.07135	(34.9)	0.15	170.0	9.2	237.0	83.8	967.5	735.2
1723M08-37	39	0.4	1832	0.02658	(4.5)	0.23948	(39.7)	0.06535	(39.5)	0.10	169.1	7.5	218.0	86.6	785.7	862.0
1723M08-38	40	0.3	1128	0.02644	(8.7)	0.09444	(18.7)	0.02591	(16.5)	0.47	168.2	14.4	91.6	17.1	-1634.4	578.9
1723M08-39	56	0.2	5501	0.02638	(2.2)	0.18194	(35.4)	0.05001	(35.3)	0.04	167.9	3.7	169.7	60.0	195.6	933.3
1723M08-40	45	0.2	4681	0.02677	(4.7)	0.29332	(28.4)	0.07948	(28.0)	0.16	170.3	7.9	261.2	74.1	1184.0	563.6
1723M08-41	45	0.2	2034	0.02700	(6.6)	0.20885	(37.0)	0.05611	(36.4)	0.18	171.7	11.2	192.6	71.2	456.5	930.5
1723M08-42	44	0.4	1949	0.02531	(3.5)	0.10475	(16.5)	0.03002	(16.2)	0.20	161.1	5.5	101.2	16.7	-1156.8	511.7

Sample	Composition		Isotopic ratios						Dates (Ma)							
	U ^a	Th ^a / U	$\frac{^{206}\text{Pb}}{^{204}\text{Pb}}$ ^b	$\frac{^{206}\text{Pb}^*}{^{238}\text{U}}$ ^c	% err	$\frac{^{207}\text{Pb}^*}{^{235}\text{U}}$ ^c	% err	$\frac{^{207}\text{Pb}^*}{^{206}\text{Pb}^*}$ ^c	% err	ρ^d	$\frac{^{206}\text{Pb}}{^{238}\text{U}}$ ^e	1 σ	$\frac{^{207}\text{Pb}}{^{235}\text{U}}$ ^e	1 σ	$\frac{^{207}\text{Pb}}{^{206}\text{Pb}}$ ^e	1 σ
1723M08-43	51	0.2	2998	0.02608	(3.2)	0.19512	(12.3)	0.05425	(11.9)	0.28	166.0	5.2	181.0	22.3	381.5	268.0
1723M08-44	37	0.4	1108	0.02719	(6.6)	0.28232	(41.6)	0.07529	(41.1)	0.15	173.0	11.2	252.5	105.2	1076.4	862.6
1723M08-45	39	0.4	1010	0.02663	(5.0)	0.11140	(20.4)	0.03034	(19.8)	0.25	169.4	8.3	107.2	21.9	-1124.9	626.4
1723M08-46	37	0.4	925	0.02542	(3.0)	0.14247	(13.1)	0.04065	(12.7)	0.25	161.8	4.9	135.2	17.7	-309.7	336.9
1723M08-47	35	0.4	2069	0.02803	(8.0)	0.18484	(53.6)	0.04783	(53.1)	0.15	178.2	14.0	172.2	92.4	91.0	1567.7
1723M08-48	45	0.4	1704	0.02663	(2.4)	0.19254	(42.4)	0.05243	(42.4)	0.04	169.4	4.1	178.8	75.9	304.2	1141.7
1723M08-49	34	0.3	1462	0.02716	(7.5)	0.18423	(41.6)	0.04920	(40.9)	0.18	172.7	12.7	171.7	71.5	157.4	1119.0
1723M08-50	45	0.4	2249	0.02658	(2.6)	0.21949	(45.9)	0.05989	(45.8)	0.04	169.1	4.4	201.5	92.5	599.6	1209.5
1723M08-51	37	0.3	1807	0.02826	(6.1)	0.20860	(14.4)	0.05355	(13.0)	0.51	179.6	10.7	192.4	27.6	351.9	295.4
1723M08-52	62	0.4	2778	0.02784	(4.7)	0.18330	(10.9)	0.04775	(9.9)	0.66	177.0	8.2	170.9	18.7	86.8	241.2
<u>1721M04</u>																
1721M04-1	71	0.7	1425	0.02385	(3.4)	0.19069	(22.3)	0.05798	(22.0)	0.16	152.0	5.1	177.2	39.5	528.9	488.4
1721M04-3	27	0.3	1563	0.02509	(5.2)	0.37839	(29.9)	0.10939	(29.4)	0.18	159.7	8.3	325.8	97.3	1789.2	548.2
1721M04-4	77	0.6	2443	0.02295	(2.4)	0.16810	(14.5)	0.05313	(14.3)	0.20	146.2	3.5	157.8	22.9	334.5	326.2
1721M04-5	50	0.4	2010	0.02426	(2.4)	0.19078	(34.3)	0.05703	(34.3)	0.05	154.5	3.6	177.3	60.9	492.6	862.2
1721M04-6	53	0.4	3232	0.02329	(3.1)	0.22585	(28.3)	0.07034	(28.1)	0.10	148.4	4.5	206.8	58.4	938.4	587.0
1721M04-8	41	0.4	1510	0.02467	(3.1)	0.22334	(40.0)	0.06565	(39.9)	0.06	157.1	4.7	204.7	81.9	795.3	869.9
1721M04-9	36	0.3	763	0.02540	(5.4)	0.18965	(43.7)	0.05415	(43.4)	0.12	161.7	8.6	176.3	77.1	377.4	1164.0
1721M04-10	39	0.4	1132	0.02356	(3.7)	0.19717	(37.1)	0.06069	(36.9)	0.08	150.1	5.5	182.7	67.7	628.1	922.7
1721M04-12	26	0.3	1433	0.02542	(6.5)	0.26944	(40.0)	0.07686	(39.5)	0.16	161.8	10.4	242.2	96.9	1117.6	820.0
1721M04-13	123	0.5	3023	0.02357	(2.5)	0.16650	(27.9)	0.05123	(27.8)	0.04	150.2	3.7	156.4	43.6	251.3	704.6
1721M04-14	53	0.3	1531	0.02472	(4.3)	0.18224	(33.5)	0.05346	(33.3)	0.11	157.4	6.7	170.0	57.0	348.4	851.2
1721M04-15	29	0.4	1480	0.02654	(8.6)	0.27577	(53.9)	0.07535	(53.2)	0.16	168.9	14.3	247.3	133.3	1077.7	1155.2
1721M04-16	38	0.4	1639	0.02368	(3.3)	0.18443	(37.7)	0.05649	(37.6)	0.06	150.9	4.9	171.9	64.8	471.6	964.2
1721M04-18	27	0.3	1314	0.02355	(3.7)	0.26701	(27.3)	0.08225	(27.0)	0.11	150.0	5.6	240.3	65.6	1251.4	538.7
1721M04-19	28	0.4	788	0.02513	(6.9)	0.22298	(58.8)	0.06435	(58.4)	0.11	160.0	11.0	204.4	120.3	753.0	1646.9
1721M04-20	73	0.4	3171	0.02351	(2.8)	0.17061	(35.4)	0.05262	(35.3)	0.03	149.8	4.1	159.9	56.7	312.5	918.2
1721M04-21	40	0.4	2088	0.02496	(4.0)	0.20494	(37.9)	0.05955	(37.7)	0.08	158.9	6.3	189.3	71.8	587.1	952.4
1721M04-22	47	0.2	2850	0.02702	(5.3)	0.20075	(43.3)	0.05388	(43.0)	0.11	171.9	9.0	185.8	80.4	366.0	1151.3
1721M04-23	31	0.3	1642	0.02488	(4.4)	0.11891	(19.6)	0.03466	(19.1)	0.19	158.4	7.0	114.1	22.3	-735.9	557.7
1721M04-24	39	0.3	826	0.02212	(3.7)	0.28863	(27.0)	0.09465	(26.7)	0.10	141.0	5.2	257.5	69.5	1521.0	513.1
1721M04-25	40	0.3	1588	0.02361	(3.1)	0.23463	(29.7)	0.07208	(29.6)	0.05	150.4	4.6	214.0	63.6	988.2	614.5
1721M04-26	78	0.5	2159	0.02540	(4.4)	0.19068	(18.2)	0.05444	(17.7)	0.20	161.7	7.0	177.2	32.3	389.3	399.7

Sample	Composition		Isotopic ratios						Dates (Ma)							
	U ^a	Th ^a / U	$\frac{^{206}\text{Pb}^{\text{b}}}{^{204}\text{Pb}}$	$\frac{^{206}\text{Pb}^{\text{*c}}}{^{238}\text{U}}$	% err	$\frac{^{207}\text{Pb}^{\text{*c}}}{^{235}\text{U}}$	% err	$\frac{^{207}\text{Pb}^{\text{*c}}}{^{206}\text{Pb}^{\text{*}}}$	% err	p ^d	$\frac{^{206}\text{Pb}^{\text{e}}}{^{238}\text{U}}$	1 σ	$\frac{^{207}\text{Pb}^{\text{e}}}{^{235}\text{U}}$	1 σ	$\frac{^{207}\text{Pb}^{\text{e}}}{^{206}\text{Pb}}$	1 σ
1721M04-27	49	0.4	1013	0.02529	(4.1)	0.20057	(26.1)	0.05752	(25.7)	0.12	161.0	6.5	185.6	48.4	511.3	621.4
1721M04-28	88	0.4	703	0.02551	(3.4)	0.10265	(34.4)	0.02919	(34.2)	0.06	162.4	5.5	99.2	34.1	-1244.2	1153.0
1721M04-29	49	0.3	1329	0.02506	(3.2)	0.18452	(38.7)	0.05341	(38.5)	0.04	159.5	5.1	171.9	66.5	346.1	1011.9
1721M04-30	23	0.3	953	0.02762	(12.9)	0.26915	(43.2)	0.07069	(41.2)	0.29	175.6	22.3	242.0	104.5	948.4	880.8
1721M04-31	33	0.3	1910	0.02799	(6.9)	0.16549	(18.4)	0.04288	(17.0)	0.37	177.9	12.1	155.5	28.5	-174.4	445.1
1721M04-32	53	0.4	3432	0.02595	(3.4)	0.26138	(24.9)	0.07304	(24.7)	0.08	165.2	5.6	235.8	58.8	1015.1	507.7
1721M04-33	21	0.3	544	0.02545	(8.4)	0.24366	(50.5)	0.06944	(49.8)	0.16	162.0	13.4	221.4	111.8	911.8	1094.6
1721M04-34	63	0.5	1132	0.02510	(4.4)	0.27391	(16.8)	0.07916	(16.2)	0.24	159.8	6.9	245.8	41.3	1176.2	323.1
1721M04-35	49	0.3	3410	0.02968	(7.5)	0.19342	(42.1)	0.04727	(41.4)	0.17	188.5	13.9	179.5	75.5	62.9	1150.0
1721M04-36	39	0.4	672	0.02634	(6.4)	0.25965	(23.6)	0.07148	(22.7)	0.27	167.6	10.6	234.4	55.3	971.3	469.0
1721M04-37	40	0.3	1873	0.02656	(5.4)	0.17631	(44.6)	0.04814	(44.2)	0.12	169.0	9.1	164.9	73.5	105.9	1238.8
1721M04-39	31	0.3	1363	0.02504	(3.2)	0.12422	(16.3)	0.03598	(16.0)	0.17	159.5	5.0	118.9	19.4	-632.8	456.1
1721M04-40	53	0.6	910	0.02457	(4.2)	0.23114	(22.7)	0.06822	(22.3)	0.17	156.5	6.5	211.1	48.0	875.3	468.1
1721M04-41	51	0.4	1960	0.02283	(3.2)	0.19541	(37.6)	0.06208	(37.5)	0.06	145.5	4.7	181.2	68.2	676.8	934.2
1721M04-42	36	0.3	2127	0.02667	(5.6)	0.23141	(13.8)	0.06292	(12.6)	0.47	169.7	9.4	211.4	29.2	705.4	269.3
1721M04-43	54	0.4	3976	0.02821	(2.9)	0.23080	(11.1)	0.05933	(10.7)	0.22	179.3	5.2	210.9	23.5	579.3	233.9
1721M04-44	40	0.5	1553	0.02386	(3.2)	0.23530	(28.9)	0.07153	(28.8)	0.07	152.0	4.8	214.6	62.1	972.6	598.4
1721M04-46	52	0.5	2847	0.02593	(4.8)	0.09585	(18.9)	0.02681	(18.3)	0.24	165.0	7.9	92.9	17.6	-1518.9	627.8
1721M04-47	44	0.3	1209	0.02563	(3.7)	0.39084	(18.5)	0.11059	(18.1)	0.15	163.2	5.9	335.0	61.9	1809.1	332.2
1721M04-48	35	0.4	1512	0.02328	(3.9)	0.29472	(22.3)	0.09182	(21.9)	0.13	148.3	5.7	262.3	58.4	1463.7	422.0
1721M04-49	39	0.4	2262	0.02752	(6.4)	0.26425	(11.8)	0.06964	(9.9)	0.54	175.0	11.0	238.1	28.1	917.7	204.7
1721M04-50	29	0.3	538	0.02610	(6.2)	0.20143	(46.9)	0.05598	(46.5)	0.12	166.1	10.1	186.3	87.3	451.5	1255.0
<u>1723M12</u>																
1723M12-2	212	0.3	2767	0.02411	(2.5)	0.19073	(23.0)	0.05737	(22.8)	0.09	153.6	3.8	177.3	40.7	505.9	508.1
1723M12-3	147	0.1	2461	0.02440	(5.5)	0.15407	(8.6)	0.04580	(6.7)	0.68	155.4	8.4	145.5	12.5	-12.7	164.4
1723M12-4	351	0.1	3741	0.02497	(2.1)	0.20888	(6.0)	0.06067	(5.6)	0.36	159.0	3.4	192.6	11.5	627.4	120.5
1723M12-5	53	0.2	613	0.02411	(3.6)	0.14509	(49.4)	0.04365	(49.3)	0.07	153.5	5.4	137.6	68.0	-130.2	1471.4
1723M12-6	70	0.5	1001	0.03001	(5.6)	0.14023	(43.0)	0.03389	(42.6)	0.13	190.6	10.6	133.3	57.3	-799.2	1369.3
1723M12-7	85	0.4	1187	0.02381	(2.4)	0.18131	(10.8)	0.05522	(10.5)	0.20	151.7	3.6	169.2	18.2	421.3	234.6
1723M12-8	55	0.5	752	0.02392	(3.7)	0.12395	(61.5)	0.03758	(61.4)	0.05	152.4	5.6	118.6	73.0	-514.9	2088.0
1723M12-9	99	0.4	1343	0.02567	(3.6)	0.22759	(34.6)	0.06431	(34.4)	0.09	163.4	5.9	208.2	72.0	751.7	747.2
1723M12-10	78	0.4	1342	0.02484	(2.9)	0.22288	(29.7)	0.06507	(29.6)	0.08	158.2	4.5	204.3	60.7	776.5	634.7
1723M12-11	32	0.2	887	0.02455	(7.5)	0.20406	(19.0)	0.06029	(17.5)	0.39	156.3	11.5	188.6	35.9	614.0	380.8

Sample	Composition		Isotopic ratios							Dates (Ma)						
			U ^a	Th ^a / U	$\frac{^{206}\text{Pb}}{^{204}\text{Pb}}$ ^b	$\frac{^{206}\text{Pb}^*}{^{238}\text{U}}$ ^c	% err	$\frac{^{207}\text{Pb}^*}{^{235}\text{U}}$ ^c	% err	$\frac{^{207}\text{Pb}^*}{^{206}\text{Pb}^*}$ ^c	% err	ρ^d	$\frac{^{206}\text{Pb}}{^{238}\text{U}}$ ^e	1 σ	$\frac{^{207}\text{Pb}}{^{235}\text{U}}$ ^e	1 σ
	1723M12-12	190	0.2	3254	0.02426	(2.2)	0.17905	(16.7)	0.05353	(16.6)	0.07	154.5	3.4	167.2	28.0	351.4
1723M12-13	314	0.6	6081	0.02541	(2.9)	0.19086	(16.0)	0.05447	(15.7)	0.14	161.8	4.6	177.4	28.4	390.6	355.3
1723M12-14	71	0.5	1691	0.02226	(3.7)	0.26296	(34.9)	0.08566	(34.7)	0.09	142.0	5.2	237.0	82.6	1330.4	691.8
1723M12-15	93	0.3	1396	0.02877	(3.4)	0.19602	(34.4)	0.04942	(34.2)	0.08	182.8	6.2	181.8	62.5	167.8	904.6
1723M12-16	177	0.3	2717	0.02379	(2.8)	0.15816	(30.6)	0.04821	(30.5)	0.07	151.6	4.2	149.1	45.6	109.5	799.0
1723M12-17	142	0.4	1808	0.02447	(5.8)	0.20573	(13.9)	0.06097	(12.7)	0.43	155.9	9.0	190.0	26.5	638.1	273.4
1723M12-18	100	0.3	1783	0.02382	(3.0)	0.21632	(29.2)	0.06586	(29.1)	0.08	151.8	4.4	198.8	58.1	801.9	621.3
1723M12-19	158	0.6	1966	0.02487	(3.8)	0.20688	(21.0)	0.06033	(20.6)	0.16	158.4	6.0	190.9	40.1	615.2	450.1
1723M12-20	264	0.2	7147	0.03284	(3.2)	0.23371	(9.3)	0.05162	(8.7)	0.35	208.3	6.6	213.3	19.8	268.4	200.0
1723N12-21	88	0.5	1407	0.02439	(3.9)	0.20250	(17.6)	0.06021	(17.2)	0.20	155.4	6.0	187.2	33.0	611.1	374.2
1723N12-22	16	0.4	927	0.05111	(9.2)	1.00423	(29.1)	0.14250	(27.6)	0.32	321.3	29.0	706.0	205.3	2257.8	486.1
1723N12-23	158	0.3	2624	0.02450	(2.5)	0.17151	(34.1)	0.05078	(34.0)	0.04	156.0	3.8	160.7	54.8	230.8	888.7
1723M12-24	97	0.3	2506	0.02715	(7.0)	0.25484	(13.0)	0.06809	(10.9)	0.56	172.7	11.9	230.5	29.9	871.2	226.8
1723M12-25	32	0.3	710	0.02717	(13.7)	0.36656	(32.4)	0.09785	(29.4)	0.43	172.8	23.4	317.1	102.8	1583.4	562.0
1723M12-26	167	0.3	3600	0.02556	(4.8)	0.19058	(21.5)	0.05408	(20.9)	0.21	162.7	7.7	177.1	38.0	374.5	505.7
1723M12-28	147	0.4	3972	0.03022	(7.5)	0.23260	(11.0)	0.05583	(8.0)	0.87	191.9	14.2	212.3	23.3	445.5	178.0
1723M12-30	88	0.4	2082	0.02507	(2.6)	0.16395	(36.3)	0.04742	(36.2)	0.06	159.6	4.2	154.2	55.9	70.7	979.5
1723M12-31	341	0.3	6980	0.03695	(2.8)	0.26114	(12.3)	0.05126	(12.0)	0.23	233.9	6.3	235.6	29.0	252.5	286.4
1723M12-32	51	0.3	874	0.02576	(6.5)	0.18039	(41.4)	0.05079	(40.9)	0.15	163.9	10.5	168.4	69.8	231.3	1106.1
1723M12-33	48	0.3	942	0.02149	(4.0)	0.24041	(31.9)	0.08113	(31.7)	0.12	137.1	5.4	218.8	69.9	1224.6	638.7
1723M12-34	61	0.3	2159	0.02355	(3.2)	0.21292	(39.3)	0.06558	(39.2)	0.07	150.0	4.7	196.0	77.0	793.1	853.3
1723M12-35	38	0.2	909	0.02622	(9.5)	0.10086	(21.4)	0.02789	(19.2)	0.47	166.9	15.6	97.6	20.9	-1388.4	640.6
1723M12-36	256	0.2	13236	0.05073	(2.9)	0.36565	(13.1)	0.05228	(12.8)	0.23	319.0	9.0	316.4	41.5	297.5	292.7
1723M12-37	473	0.2	1406	0.03537	(2.1)	0.25843	(11.7)	0.05300	(11.5)	0.16	224.0	4.7	233.4	27.3	328.6	261.3
1723M12-38	62	0.3	1412	0.02343	(3.3)	0.21700	(40.8)	0.06716	(40.7)	0.07	149.3	4.9	199.4	81.4	842.7	882.8
1723M12-39	85	0.3	2458	0.02995	(2.8)	0.22257	(32.8)	0.05389	(32.7)	0.07	190.3	5.3	204.1	67.0	366.6	832.8
1723M12-40	46	0.4	1165	0.02591	(10.7)	0.23382	(46.6)	0.06546	(45.3)	0.23	164.9	17.4	213.3	99.3	789.0	1162.9
1723M12-41	38	0.4	839	0.02453	(3.4)	0.41262	(38.5)	0.12199	(38.3)	0.08	156.2	5.2	350.8	134.9	1985.5	710.5
1723M12-42	60	0.4	1793	0.02629	(5.3)	0.18792	(17.4)	0.05184	(16.6)	0.32	167.3	8.7	174.9	30.4	278.2	400.3
1723M12-43	88	0.4	2175	0.02673	(2.6)	0.19105	(13.0)	0.05184	(12.7)	0.17	170.1	4.3	177.5	23.1	278.1	303.6
1723M12-44	210	0.4	1045	0.02417	(2.3)	0.17715	(20.6)	0.05315	(20.5)	0.07	154.0	3.5	165.6	34.1	335.3	497.0
1723M12-45	51	0.3	1290	0.02527	(9.0)	0.24429	(38.5)	0.07013	(37.4)	0.23	160.8	14.3	221.9	85.3	932.0	794.8
1723M12-46	49	0.4	1513	0.02890	(5.2)	0.25115	(46.7)	0.06302	(46.4)	0.10	183.7	9.4	227.5	106.2	708.8	1210.1
1723M12-47	61	0.4	1574	0.02469	(6.0)	0.23676	(34.0)	0.06953	(33.5)	0.17	157.3	9.2	215.8	73.3	914.6	707.7

Sample	Composition		Isotopic ratios						Dates (Ma)							
	U ^a	Th ^a / U	$\frac{^{206}\text{Pb}}{^{204}\text{Pb}}$ ^b	$\frac{^{206}\text{Pb}^*}{^{238}\text{U}}$ ^c	% err	$\frac{^{207}\text{Pb}^*}{^{235}\text{U}}$ ^c	% err	$\frac{^{207}\text{Pb}^*}{^{206}\text{Pb}^*}$ ^c	% err	ρ^d	$\frac{^{206}\text{Pb}}{^{238}\text{U}}$ ^e	1 σ	$\frac{^{207}\text{Pb}}{^{235}\text{U}}$ ^e	1 σ	$\frac{^{207}\text{Pb}}{^{206}\text{Pb}}$ ^e	1 σ
1723M12-48	155	0.3	5849	0.02858	(6.8)	0.19014	(12.7)	0.04825	(10.7)	0.73	181.7	12.2	176.8	22.4	111.4	260.1
1723M12-49	77	0.4	1919	0.02467	(5.5)	0.24475	(33.8)	0.07196	(33.4)	0.16	157.1	8.6	222.3	75.2	984.9	698.8
1723M12-50	129	0.4	3140	0.02668	(5.3)	0.10294	(18.9)	0.02798	(18.2)	0.29	169.8	8.8	99.5	18.8	-1378.7	604.6
<u>Trop S54</u>																
Trop S54-2	64	0.3	2657	0.02344	(4.4)	0.16146	(42.2)	0.04995	(41.9)	0.08	149.4	6.5	152.0	64.1	192.8	1145.7
Trop S54-3	48	0.3	2052	0.02494	(9.5)	0.16337	(52.6)	0.04751	(51.7)	0.17	158.8	14.9	153.6	80.8	75.1	1519.9
Trop S54-4	72	0.5	1633	0.02302	(3.9)	0.17703	(34.3)	0.05578	(34.1)	0.06	146.7	5.6	165.5	56.8	443.8	863.7
Trop S54-5	52	0.4	1317	0.02509	(7.3)	0.27090	(29.0)	0.07830	(28.1)	0.24	159.8	11.5	243.4	70.7	1154.4	569.2
Trop S54-7	60	0.4	2520	0.02518	(7.7)	0.22269	(38.1)	0.06415	(37.3)	0.19	160.3	12.3	204.1	77.7	746.6	814.6
Trop S54-8	80	0.4	1776	0.02405	(6.0)	0.17778	(42.6)	0.05362	(42.2)	0.12	153.2	9.1	166.1	70.8	355.0	1126.8
Trop S54-9	50	0.3	1251	0.02427	(6.0)	0.11572	(64.6)	0.03458	(64.3)	0.08	154.6	9.2	111.2	71.8	-742.4	2307.8
Trop S54-10	50	0.3	1432	0.02372	(5.3)	0.15490	(20.7)	0.04735	(20.0)	0.29	151.1	7.9	146.2	30.3	67.1	507.3
Trop S54-11	60	0.4	1471	0.02452	(7.9)	0.28401	(35.3)	0.08401	(34.4)	0.23	156.2	12.2	253.8	89.6	1292.8	689.7
Trop S54-12	102	0.5	2193	0.02387	(3.4)	0.17264	(31.6)	0.05245	(31.5)	0.04	152.1	5.1	161.7	51.2	305.0	803.9
Trop S54-13	50	0.4	1948	0.02339	(3.6)	0.25445	(30.1)	0.07888	(29.9)	0.07	149.1	5.3	230.2	69.3	1169.2	605.0
Trop S54-14	52	0.4	1491	0.02490	(9.2)	0.20523	(33.4)	0.05978	(32.1)	0.29	158.6	14.5	189.5	63.3	595.4	788.3
Trop S54-15	57	0.5	896	0.02475	(8.1)	0.12864	(52.2)	0.03769	(51.6)	0.15	157.6	12.6	122.9	64.2	-507.0	1651.2
Trop S54-16	73	0.3	2739	0.02146	(4.8)	0.20560	(34.1)	0.06950	(33.8)	0.12	136.8	6.5	189.9	64.7	913.6	714.7
Trop S54-18	57	0.2	1136	0.02257	(4.1)	0.17649	(48.7)	0.05671	(48.6)	0.06	143.9	5.8	165.0	80.4	480.2	1323.3
Trop S54-19	69	0.4	2385	0.02353	(3.6)	0.18000	(39.7)	0.05548	(39.5)	0.05	149.9	5.4	168.1	66.7	431.6	1029.8
Trop S54-20	63	0.5	1590	0.02366	(3.6)	0.25825	(30.0)	0.07917	(29.8)	0.07	150.7	5.3	233.3	70.0	1176.3	602.6
Trop S54-21	65	0.4	1688	0.02472	(7.1)	0.18397	(34.6)	0.05398	(33.8)	0.21	157.4	11.1	171.5	59.3	370.4	864.9
Trop S54-22	82	0.4	2051	0.02328	(3.6)	0.15216	(41.3)	0.04739	(41.2)	0.06	148.4	5.3	143.8	59.4	69.1	1141.1
Trop S54-23	43	0.3	1275	0.02495	(3.9)	0.12375	(51.3)	0.03597	(51.2)	0.05	158.9	6.2	118.5	60.8	-633.5	1666.1
Trop S54-24	124	0.7	3329	0.02338	(5.4)	0.15462	(16.1)	0.04797	(15.2)	0.46	149.0	8.0	146.0	23.5	97.8	376.6
Trop S54-25	46	0.4	908	0.02253	(4.8)	0.20390	(49.1)	0.06565	(48.9)	0.08	143.6	6.8	188.4	92.5	795.3	1281.2
Trop S54-26	53	0.4	1560	0.02574	(7.6)	0.24298	(32.3)	0.06847	(31.4)	0.24	163.8	12.3	220.9	71.3	882.7	664.7
Trop S54-27	42	0.3	1438	0.02443	(4.1)	0.25443	(39.3)	0.07555	(39.1)	0.08	155.6	6.4	230.2	90.4	1083.1	814.8
Trop S54-28	73	0.5	1386	0.02402	(5.5)	0.16016	(37.6)	0.04835	(37.2)	0.14	153.0	8.4	150.8	56.7	116.4	1003.0
Trop S54-29	71	0.5	1742	0.02508	(7.3)	0.19308	(36.3)	0.05584	(35.6)	0.21	159.7	11.5	179.3	65.1	445.9	908.0
Trop S54-30	43	0.4	1913	0.02579	(7.6)	0.18669	(46.4)	0.05251	(45.8)	0.16	164.1	12.3	173.8	80.7	307.6	1257.9
Trop S54-31	80	0.5	1043	0.02396	(3.0)	0.16942	(34.7)	0.05128	(34.6)	0.07	152.6	4.5	158.9	55.2	253.6	904.2
Trop S54-32	73	0.5	2684	0.02263	(2.9)	0.23435	(24.2)	0.07509	(24.0)	0.11	144.3	4.1	213.8	51.7	1070.9	489.2

Sample	Composition		Isotopic ratios						Dates (Ma)							
	U ^a	Th ^a / U	$\frac{^{206}\text{Pb}}{^{204}\text{Pb}}$ ^b	$\frac{^{206}\text{Pb}^*}{^{238}\text{U}}$ ^c	% err	$\frac{^{207}\text{Pb}^*}{^{235}\text{U}}$ ^c	% err	$\frac{^{207}\text{Pb}^*}{^{206}\text{Pb}^*}$ ^c	% err	ρ^d	$\frac{^{206}\text{Pb}}{^{238}\text{U}}$ ^e	1 σ	$\frac{^{207}\text{Pb}}{^{235}\text{U}}$ ^e	1 σ	$\frac{^{207}\text{Pb}}{^{206}\text{Pb}}$ ^e	1 σ
Trop S54-33	105	0.4	1680	0.02479	(2.9)	0.18018	(40.7)	0.05271	(40.6)	0.07	157.9	4.6	168.2	68.4	316.4	1081.4
Trop S54-34	116	0.5	1831	0.02383	(2.3)	0.17271	(31.9)	0.05257	(31.8)	0.06	151.8	3.5	161.8	51.6	310.1	813.4
Trop S54-35	94	0.6	748	0.02634	(2.4)	0.18031	(34.4)	0.04966	(34.3)	0.06	167.6	4.0	168.3	58.0	179.0	906.3
Trop S54-36	77	0.4	2912	0.02480	(3.5)	0.11797	(56.4)	0.03450	(56.3)	0.05	157.9	5.5	113.2	63.8	-748.5	1918.6
Trop S54-37	81	0.4	1854	0.02428	(4.6)	0.17613	(33.3)	0.05262	(33.0)	0.13	154.6	7.1	164.7	54.9	312.2	848.3
Trop S54-38	61	0.4	2214	0.02380	(3.7)	0.17988	(39.8)	0.05481	(39.7)	0.07	151.6	5.6	168.0	66.9	404.5	1039.1
Trop S54-39	101	0.5	2650	0.02326	(3.5)	0.17727	(23.9)	0.05527	(23.7)	0.12	148.2	5.1	165.7	39.7	423.1	574.8
Trop S54-40	54	0.4	1503	0.02489	(6.8)	0.23241	(29.1)	0.06773	(28.2)	0.24	158.5	10.7	212.2	61.6	860.1	597.4
Trop S54-41	101	0.5	2401	0.02453	(4.2)	0.18282	(14.1)	0.05406	(13.5)	0.47	156.2	6.5	170.5	24.1	373.7	304.2
Trop S54-42	73	0.5	2123	0.02283	(3.4)	0.17631	(29.3)	0.05600	(29.1)	0.08	145.5	4.8	164.9	48.2	452.4	718.5
Trop S54-43	69	0.5	1752	0.02257	(3.3)	0.09938	(53.3)	0.03193	(53.2)	0.03	143.9	4.7	96.2	51.2	-971.1	1844.9
Trop S54-44	54	0.4	1415	0.02587	(6.4)	0.24141	(39.3)	0.06768	(38.8)	0.15	164.7	10.5	219.6	86.3	858.7	835.9
Trop S54-45	66	0.5	1413	0.02406	(7.3)	0.23430	(27.3)	0.07062	(26.4)	0.28	153.3	11.0	213.7	58.4	946.4	548.8
Trop S54-46	58	0.4	1127	0.02461	(3.7)	0.17948	(46.3)	0.05290	(46.2)	0.04	156.7	5.7	167.6	77.6	324.5	1266.8
Trop S54-47	75	0.5	1305	0.02446	(4.8)	0.21032	(33.1)	0.06236	(32.8)	0.13	155.8	7.4	193.8	64.2	686.4	718.1
Trop S54-48	50	0.3	1232	0.02699	(3.6)	0.34004	(27.3)	0.09138	(27.1)	0.09	171.7	6.1	297.2	81.2	1454.6	525.2
Trop S54-49	62	0.4	2763	0.02402	(3.6)	0.24748	(34.8)	0.07472	(34.6)	0.08	153.0	5.5	224.5	78.2	1060.8	718.7
Trop S54-50	85	0.6	2866	0.02379	(5.9)	0.25603	(19.6)	0.07807	(18.6)	0.55	151.5	8.9	231.5	45.3	1148.5	373.3
Trop S54-51	65	0.4	2550	0.02525	(5.2)	0.16923	(58.0)	0.04861	(57.8)	0.08	160.8	8.3	158.8	92.1	129.0	1753.9
Trop S54-53	77	0.4	1733	0.02412	(3.4)	0.22475	(20.6)	0.06757	(20.3)	0.16	153.7	5.2	205.9	42.5	855.5	426.7
Trop S54-54	75	0.3	1749	0.02517	(3.2)	0.28540	(15.3)	0.08224	(15.0)	0.22	160.2	5.0	254.9	39.0	1251.2	294.2
Trop S54-55	82	0.4	1328	0.02471	(3.9)	0.15841	(33.5)	0.04650	(33.3)	0.11	157.3	6.1	149.3	50.0	23.7	896.0
Trop S54-56	87	0.4	1732	0.02402	(3.8)	0.21147	(24.0)	0.06386	(23.7)	0.15	153.0	5.7	194.8	46.8	737.0	508.7
Trop S54-57	79	0.4	1702	0.02413	(4.5)	0.21004	(19.4)	0.06314	(18.9)	0.24	153.7	6.8	193.6	37.6	712.9	405.3
Trop S54-58	78	0.3	521	0.02366	(4.4)	0.19828	(35.0)	0.06079	(34.8)	0.12	150.7	6.6	183.7	64.3	631.9	859.5
Trop S54-59	85	0.4	2938	0.02469	(4.8)	0.16588	(43.1)	0.04872	(42.9)	0.10	157.2	7.4	155.8	67.2	134.6	1187.8
Trop S54-60	92	0.4	1818	0.02351	(2.5)	0.18971	(29.8)	0.05852	(29.7)	0.05	149.8	3.8	176.4	52.6	549.1	725.6
Trop S54-61	80	0.3	2987	0.02426	(4.3)	0.18740	(37.1)	0.05602	(36.8)	0.10	154.5	6.6	174.4	64.7	453.2	944.0
Trop S54-62	68	0.4	1987	0.02429	(3.8)	0.22713	(29.1)	0.06783	(28.9)	0.11	154.7	5.8	207.8	60.5	863.4	611.1
Trop S54-63	76	0.2	2897	0.02270	(2.8)	0.16624	(40.3)	0.05311	(40.2)	0.04	144.7	4.0	156.1	62.9	333.3	1065.4
Trop S54-64	66	0.3	1518	0.02352	(3.2)	0.28106	(19.4)	0.08665	(19.1)	0.13	149.9	4.8	251.5	48.8	1352.8	372.6
Trop S54-65	88	0.4	2274	0.02300	(3.1)	0.21906	(33.5)	0.06909	(33.3)	0.06	146.6	4.5	201.1	67.3	901.3	706.1
Trop S54-66	86	0.5	2540	0.02430	(4.2)	0.14613	(13.0)	0.04362	(12.3)	0.41	154.8	6.4	138.5	18.0	-132.2	314.1
Trop S54-67	112	0.6	1012	0.02529	(2.9)	0.15008	(45.0)	0.04303	(44.9)	0.04	161.0	4.7	142.0	63.9	-165.8	1314.8

Sample	Composition		Isotopic ratios								Dates (Ma)					
	U ^a	Th ^a / U	$\frac{^{206}\text{Pb}}{^{204}\text{Pb}}$ ^b	$\frac{^{206}\text{Pb}^*\text{e}}{^{238}\text{U}}$ ^c	% err	$\frac{^{207}\text{Pb}^*\text{e}}{^{235}\text{U}}$	% err	$\frac{^{207}\text{Pb}^*\text{e}}{^{206}\text{Pb}^*}$	% err	ρ^d	$\frac{^{206}\text{Pb}}{^{238}\text{U}}$ ^e	1 σ	$\frac{^{207}\text{Pb}}{^{235}\text{U}}$ ^e	1 σ	$\frac{^{207}\text{Pb}}{^{206}\text{Pb}}$ ^e	1 σ
Trop S54-70	79	0.4	1713	0.02467	(4.3)	0.20640	(27.6)	0.06067	(27.3)	0.14	157.1	6.7	190.5	52.6	627.6	598.2
Trop S54-71	89	0.4	2543	0.02406	(2.7)	0.18181	(34.1)	0.05481	(34.0)	0.04	153.2	4.1	169.6	57.8	404.6	864.8
Trop S54-72	46	0.2	1947	0.02369	(6.1)	0.25265	(44.1)	0.07733	(43.6)	0.13	151.0	9.1	228.7	100.8	1129.8	913.9
Trop S54-74	145	0.5	3814	0.02352	(3.5)	0.16511	(10.4)	0.05092	(9.8)	0.50	149.9	5.2	155.2	16.1	237.1	225.4
Trop S54-75	60	0.3	2084	0.02395	(6.2)	0.21766	(38.9)	0.06591	(38.4)	0.15	152.6	9.4	200.0	77.9	803.4	835.1
Trop S54-76	55	0.3	2050	0.02513	(7.2)	0.27923	(22.3)	0.08058	(21.1)	0.33	160.0	11.4	250.0	55.8	1211.2	420.3
Trop S54-77	50	0.3	1940	0.02419	(7.3)	0.24471	(38.2)	0.07336	(37.5)	0.18	154.1	11.0	222.3	84.8	1023.8	785.6
Trop S54-79	114	0.5	3516	0.02367	(3.6)	0.16507	(41.7)	0.05059	(41.5)	0.05	150.8	5.4	155.1	64.7	222.0	1128.3
Trop S54-80	90	0.4	4475	0.02347	(3.9)	0.18538	(38.9)	0.05728	(38.7)	0.07	149.6	5.8	172.7	67.2	502.1	994.7
Trop S54-81	88	0.3	5569	0.02367	(3.3)	0.17692	(13.0)	0.05422	(12.6)	0.14	150.8	4.9	165.4	21.5	380.0	283.6
Trop S54-83	76	0.3	2767	0.02329	(3.3)	0.12872	(46.5)	0.04009	(46.4)	0.03	148.4	4.9	122.9	57.2	-345.0	1408.6
Trop S54-84	187	0.2	6129	0.02550	(3.3)	0.17988	(21.5)	0.05116	(21.2)	0.07	162.3	5.4	168.0	36.0	248.0	523.6
Trop S54-85	135	0.2	10617	0.02415	(3.7)	0.17142	(29.4)	0.05148	(29.2)	0.05	153.8	5.6	160.7	47.3	262.4	743.0
Trop S54-86	126	0.5	4873	0.02331	(4.4)	0.18907	(25.5)	0.05883	(25.1)	0.12	148.5	6.5	175.8	44.9	560.9	556.1
Trop S54-87	58	0.2	1083	0.02462	(6.5)	0.17667	(63.0)	0.05204	(62.7)	0.09	156.8	10.1	165.2	104.1	287.0	1932.3
Trop S54-88	83	0.3	2829	0.02438	(5.3)	0.20971	(11.7)	0.06238	(10.4)	0.45	155.3	8.1	193.3	22.6	687.2	223.4
Trop S54-89	68	0.3	1800	0.02428	(5.1)	0.11648	(62.0)	0.03480	(61.8)	0.06	154.6	7.8	111.9	69.3	-724.6	2171.9
Trop S54-90	63	0.3	1531	0.02376	(5.4)	0.30259	(17.2)	0.09235	(16.4)	0.25	151.4	8.0	268.4	46.2	1474.6	312.7
Trop S54-91	78	0.2	3420	0.02425	(6.0)	0.19680	(32.0)	0.05887	(31.4)	0.16	154.4	9.1	182.4	58.3	562.3	771.6
Trop S54-92	112	0.5	4713	0.02378	(3.9)	0.19241	(30.4)	0.05868	(30.1)	0.06	151.5	5.9	178.7	54.3	555.3	736.8
Trop S54-93	78	0.3	1852	0.02447	(5.8)	0.23692	(26.1)	0.07022	(25.4)	0.18	155.8	9.0	215.9	56.3	934.8	529.5
Trop S54-94	97	0.4	1199	0.02374	(6.2)	0.13926	(32.5)	0.04255	(31.9)	0.16	151.2	9.3	132.4	43.0	-193.9	883.7
Trop S54-95	72	0.3	1600	0.02439	(6.1)	0.20235	(40.1)	0.06018	(39.7)	0.12	155.3	9.3	187.1	75.1	610.0	1009.5
Trop S54-97	92	0.5	1103	0.02390	(5.4)	0.14919	(36.3)	0.04527	(35.9)	0.11	152.3	8.1	141.2	51.2	-41.1	986.4
Trop S54-99	70	0.3	4524	0.02475	(4.7)	0.26892	(16.6)	0.07880	(16.0)	0.17	157.6	7.3	241.8	40.2	1167.1	318.0
Trop S54-100	72	0.4	1461	0.02306	(4.3)	0.19424	(48.9)	0.06110	(48.7)	0.04	146.9	6.3	180.2	88.2	642.9	1301.6
<u>2712B02A</u>																
2712B02A-1	84	0.3	2281	0.02965	(6.1)	0.26505	(32.6)	0.06483	(32.0)	0.21	188.4	11.4	238.7	77.8	768.9	690.7
2712B02A-2	223	0.1	10746	0.02918	(4.6)	0.29800	(16.7)	0.07407	(16.1)	0.45	185.4	8.3	264.8	44.2	1043.2	326.2
2712B02A-3	281	0.1	897	0.02997	(2.4)	0.14942	(32.4)	0.03616	(32.3)	0.06	190.4	4.6	141.4	45.8	-619.2	965.1
2712B02A-4	275	0.2	10871	0.04363	(2.2)	0.34271	(11.1)	0.05697	(10.9)	0.27	275.3	6.0	299.2	33.2	490.5	240.6
2712B02A-5	97	0.3	3860	0.03118	(4.6)	0.22301	(30.9)	0.05187	(30.6)	0.15	198.0	8.9	204.4	63.2	279.5	781.8

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	U ^a	Th ^a / U	$\frac{^{206}\text{Pb}}{^{204}\text{Pb}}$ ^b	$\frac{^{206}\text{Pb}^*}{^{238}\text{U}}$ ^c	% err	$\frac{^{207}\text{Pb}^*}{^{235}\text{U}}$ ^c	% err	$\frac{^{207}\text{Pb}^*}{^{206}\text{Pb}^*}$ ^c	% err	ρ^d	$\frac{^{206}\text{Pb}}{^{238}\text{U}}$ ^e	1 σ	$\frac{^{207}\text{Pb}}{^{235}\text{U}}$ ^e	1 σ	$\frac{^{207}\text{Pb}}{^{206}\text{Pb}}$ ^e	1 σ
2724M01																
2724M01-1	728	0.4	37923	0.02998	(1.4)	0.19963	(4.9)	0.04830	(4.7)	0.12	190.4	2.6	184.8	9.0	113.9	110.0
2724M01-2	16	0.3	763	0.03063	(11.0)	0.27041	(24.6)	0.06404	(22.0)	0.45	194.5	21.1	243.0	59.8	742.9	471.0
2724M01-3	21	0.3	795	0.03213	(8.8)	0.33964	(50.8)	0.07667	(50.1)	0.17	203.9	17.6	296.9	150.9	1112.7	1070.4
2724M01-4	96	0.4	3105	0.03055	(1.8)	0.17270	(8.6)	0.04101	(8.4)	0.14	194.0	3.4	161.8	14.0	-287.2	220.1
2724M01-5	348	0.4	6973	0.02840	(1.6)	0.17968	(7.6)	0.04589	(7.4)	0.10	180.5	2.8	167.8	12.7	-8.4	182.7
2724M01-6	20	0.3	1034	0.03098	(8.5)	0.42661	(40.0)	0.09987	(39.1)	0.21	196.7	16.4	360.8	144.3	1621.6	758.2
2724M01-7	441	0.6	6884	0.03113	(1.7)	0.20637	(10.0)	0.04807	(9.9)	0.05	197.6	3.2	190.5	19.1	102.9	240.6
2724M01-8	85	0.3	3160	0.02940	(2.4)	0.21360	(23.0)	0.05269	(22.9)	0.08	186.8	4.4	196.6	45.3	315.3	563.9
2724M01-9	19	0.3	726	0.03096	(3.5)	0.24318	(62.3)	0.05697	(62.2)	0.05	196.5	6.9	221.0	137.6	490.4	1861.9
2724M01-10	20	0.3	639	0.02903	(8.5)	0.16656	(19.9)	0.04161	(18.0)	0.46	184.5	15.4	156.4	31.1	-249.9	478.9
2724M01-11	20	0.3	750	0.02937	(2.4)	0.28425	(15.1)	0.07019	(15.0)	0.14	186.6	4.4	254.0	38.5	933.8	308.4
2724M01-12	196	0.2	9425	0.02864	(2.0)	0.19582	(17.7)	0.04959	(17.6)	0.08	182.0	3.6	181.6	32.1	176.0	433.5
2724M01-13	132	0.3	4794	0.02913	(2.5)	0.16909	(9.9)	0.04211	(9.6)	0.56	185.1	4.6	158.6	15.7	-220.2	246.5
2724M01-14	54	0.3	3158	0.02920	(1.9)	0.22699	(26.5)	0.05639	(26.4)	0.05	185.5	3.6	207.7	55.0	467.6	643.9
2724M01-16	23	0.3	942	0.02952	(3.4)	0.34369	(44.9)	0.08443	(44.8)	0.07	187.6	6.2	300.0	134.8	1302.5	918.9
2724M01-17	71	0.2	3607	0.03665	(3.7)	0.25797	(27.1)	0.05105	(26.8)	0.13	232.0	8.5	233.0	63.2	243.2	678.8
2724M01-18	158	0.4	4285	0.02766	(2.2)	0.25522	(16.0)	0.06691	(15.9)	0.09	175.9	3.8	230.8	37.0	835.1	332.8
2724M01-19	358	0.5	6517	0.02760	(2.1)	0.17711	(12.6)	0.04653	(12.5)	0.06	175.5	3.7	165.6	20.9	25.3	310.0
2724M01-22	169	0.4	2954	0.02959	(2.8)	0.19920	(15.7)	0.04882	(15.5)	0.12	188.0	5.1	184.4	29.0	139.3	381.6
2724M01-23	137	0.4	4559	0.02987	(3.1)	0.24213	(18.5)	0.05880	(18.2)	0.11	189.7	5.8	220.2	40.7	559.6	400.0
2724M01-24	108	0.5	5874	0.03117	(2.8)	0.23682	(20.9)	0.05510	(20.8)	0.04	197.9	5.4	215.8	45.2	416.3	498.4
2724M01-25	61	0.4	1880	0.02888	(4.6)	0.22355	(37.9)	0.05614	(37.6)	0.10	183.5	8.3	204.9	77.6	457.9	967.4
2724M01-26	67	0.3	501	0.04604	(4.0)	0.34276	(31.5)	0.05400	(31.3)	0.10	290.1	11.4	299.3	94.4	371.0	790.8
2724M01-27	264	0.6	7807	0.02930	(2.8)	0.17441	(8.0)	0.04317	(7.5)	0.12	186.2	5.2	163.2	13.1	-158.1	190.9
2724M01-28	208	0.4	6433	0.03023	(3.0)	0.22531	(11.1)	0.05405	(10.7)	0.12	192.0	5.6	206.3	23.0	373.3	242.3
2724M01-30	16	0.3	591	0.03365	(3.7)	0.89782	(32.1)	0.19352	(31.9)	0.08	213.3	7.7	650.6	209.1	2772.3	539.6
2724M01-31	190	0.4	3618	0.02930	(2.8)	0.21585	(16.2)	0.05342	(16.0)	0.05	186.2	5.2	198.4	32.1	346.7	362.9
2724M01-32	26	0.3	767	0.03074	(4.0)	0.35500	(34.9)	0.08375	(34.7)	0.09	195.2	7.8	308.5	107.8	1286.8	697.3
2724M01-34	128	0.5	4523	0.02845	(3.1)	0.20839	(22.7)	0.05312	(22.4)	0.06	180.9	5.6	192.2	43.6	333.9	549.7
2724M01-38	382	0.4	3167	0.02854	(3.1)	0.22063	(10.3)	0.05606	(9.8)	0.32	181.4	5.6	202.4	20.8	454.8	217.1
2724M01-39	23	0.5	1553	0.03031	(5.8)	0.33652	(39.5)	0.08051	(39.1)	0.13	192.5	11.0	294.5	116.4	1209.6	801.3
2724M01-40	317	0.6	12387	0.02828	(3.1)	0.17940	(16.8)	0.04601	(16.5)	0.05	179.8	5.4	167.5	28.2	-1.9	419.2
2724M01-41	319	0.6	5981	0.02878	(3.1)	0.19282	(12.4)	0.04859	(12.0)	0.08	182.9	5.6	179.0	22.1	127.9	292.1

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	U ^a	Th ^a / U	$\frac{^{206}\text{Pb}}{^{204}\text{Pb}}$ ^b	$\frac{^{206}\text{Pb}^*}{^{238}\text{U}}$ ^c	% err	$\frac{^{207}\text{Pb}^*}{^{235}\text{U}}$ ^c	% err	$\frac{^{207}\text{Pb}^*}{^{206}\text{Pb}^*}$ ^c	% err	ρ^d	$\frac{^{206}\text{Pb}}{^{238}\text{U}}$ ^e	1 σ	$\frac{^{207}\text{Pb}}{^{235}\text{U}}$ ^e	1 σ	$\frac{^{207}\text{Pb}}{^{206}\text{Pb}}$ ^e	1 σ
2724M01-42	18	0.3	938	0.03252	(6.3)	0.32413	(52.2)	0.07229	(51.9)	0.11	206.3	12.9	285.1	148.9	994.1	1134.2
2724M01-43	12	0.3	536	0.03199	(12.9)	0.54958	(43.6)	0.12459	(41.6)	0.29	203.0	25.8	444.7	193.9	2023.0	775.2
2724M01-45	18	0.2	1096	0.03048	(5.3)	0.33156	(17.5)	0.07890	(16.7)	0.29	193.5	10.2	290.8	51.0	1169.7	333.1
2724M01-46	193	0.4	2336	0.03288	(3.8)	0.28949	(12.4)	0.06386	(11.8)	0.21	208.6	7.8	258.2	32.0	736.8	250.2
2724M01-47	175	0.7	851	0.02953	(4.7)	0.15406	(25.6)	0.03784	(25.2)	0.14	187.6	8.8	145.5	37.3	-496.6	717.9
2724M01-48	106	0.3	2345	0.02954	(3.7)	0.20882	(22.1)	0.05127	(21.8)	0.08	187.7	6.8	192.6	42.6	252.8	539.5
2724M01-49	287	0.3	12289	0.02951	(3.3)	0.19701	(13.2)	0.04842	(12.8)	0.07	187.5	6.0	182.6	24.1	119.6	312.9
2724M01-50	371	0.2	22649	0.03023	(2.6)	0.18689	(13.9)	0.04485	(13.7)	0.09	192.0	5.0	174.0	24.3	-64.0	347.6
2724M01-51	109	0.3	4180	0.02900	(2.6)	0.18674	(22.3)	0.04670	(22.2)	0.06	184.3	4.7	173.8	38.8	33.9	569.8
2724M01-52	63	0.4	2481	0.03046	(4.4)	0.24017	(29.5)	0.05718	(29.1)	0.13	193.4	8.4	218.6	64.4	498.5	715.5
2724M01-53	185	0.3	7509	0.02948	(2.4)	0.16095	(9.1)	0.03960	(8.8)	0.12	187.3	4.4	151.5	13.8	-376.8	233.6
<u>2712M06</u>																
2712M06-1	1037	0.4	11045	0.02958	(3.6)	0.21173	(4.6)	0.05192	(2.9)	0.41	187.9	6.6	195.0	8.9	281.7	65.9
2712M06-2	274	0.5	3251	0.02969	(3.8)	0.21198	(10.9)	0.05178	(10.2)	0.13	188.6	7.0	195.2	21.2	275.8	234.3
2712M06-3	83	0.4	1701	0.02945	(3.6)	0.24953	(31.3)	0.06145	(31.1)	0.03	187.1	6.6	226.2	70.7	655.1	681.7
2712M06-4	33	0.5	685	0.03122	(7.0)	0.23264	(53.6)	0.05405	(53.2)	0.11	198.2	13.6	212.4	113.9	372.9	1513.3
2712M06-5	55	0.4	692	0.03147	(6.3)	0.24901	(24.0)	0.05739	(23.2)	0.22	199.7	12.4	225.8	54.3	506.6	516.4
2712M06-7	1491	0.2	18611	0.02792	(3.5)	0.18542	(6.9)	0.04817	(6.0)	0.18	177.5	6.1	172.7	11.9	107.6	143.2
2712M06-8	313	0.4	3176	0.02778	(3.5)	0.18141	(12.7)	0.04736	(12.2)	0.06	176.6	6.0	169.3	21.5	67.6	301.1
2712M06-10	357	0.4	5855	0.02832	(3.2)	0.19724	(14.6)	0.05051	(14.3)	0.02	180.0	5.6	182.8	26.8	218.6	346.1
2712M06-11	246	0.6	1834	0.02935	(3.5)	0.20740	(12.7)	0.05124	(12.2)	0.18	186.5	6.5	191.4	24.4	251.7	292.8
2712M06-12	33	0.4	1348	0.03038	(4.7)	0.18598	(14.4)	0.04441	(13.6)	0.32	192.9	9.0	173.2	25.0	-88.0	347.3
2712M06-13	29	0.4	695	0.03165	(6.3)	0.49114	(38.7)	0.11254	(38.2)	0.15	200.9	12.4	405.7	157.0	1840.8	720.1
2712M06-14	153	0.5	2766	0.02878	(3.2)	0.21448	(20.5)	0.05404	(20.2)	0.07	182.9	5.8	197.3	40.4	372.9	487.3
2712M06-15	28	0.3	677	0.02833	(5.9)	0.33936	(22.2)	0.08687	(21.4)	0.26	180.1	10.5	296.7	65.8	1357.7	416.9
2712M06-16	225	0.4	2723	0.03104	(3.3)	0.22683	(14.3)	0.05299	(14.0)	0.17	197.1	6.5	207.6	29.8	328.4	318.0
2712M06-18	31	0.3	940	0.03223	(6.5)	0.23085	(63.1)	0.05194	(62.8)	0.10	204.5	13.1	210.9	133.2	282.8	1940.2
2712M06-19	244	0.6	4932	0.02846	(2.3)	0.19949	(12.9)	0.05084	(12.7)	0.13	180.9	4.0	184.7	23.9	233.6	305.9
2712M06-20	258	0.4	5424	0.03109	(2.0)	0.22310	(16.7)	0.05205	(16.6)	0.07	197.4	3.9	204.5	34.2	287.4	400.2
2712M06-21	179	0.4	2253	0.03002	(1.9)	0.19948	(19.6)	0.04819	(19.5)	0.07	190.7	3.6	184.7	36.1	108.4	489.4
2712M06-22	123	0.4	3093	0.03028	(1.7)	0.17769	(30.1)	0.04256	(30.0)	0.03	192.3	3.2	166.1	49.9	-193.0	825.6
2712M06-23	30	0.3	956	0.03138	(10.0)	0.34241	(46.0)	0.07913	(44.9)	0.22	199.2	19.6	299.0	137.4	1175.3	936.4
2712M06-25	222	0.5	9354	0.03025	(1.7)	0.19598	(17.7)	0.04699	(17.6)	0.06	192.1	3.3	181.7	32.2	48.9	444.0

Sample	Composition		Isotopic ratios						Dates (Ma)							
	U ^a	Th/U ^a	$\frac{^{206}\text{Pb}}{^{204}\text{Pb}}$ ^b	$\frac{^{206}\text{Pb}^*}{^{238}\text{U}}$ ^c	% err	$\frac{^{207}\text{Pb}^*}{^{235}\text{U}}$ ^c	% err	$\frac{^{207}\text{Pb}^*}{^{206}\text{Pb}^*}$ ^c	% err	ρ^d	$\frac{^{206}\text{Pb}}{^{238}\text{U}}$ ^e	1 σ	$\frac{^{207}\text{Pb}}{^{235}\text{U}}$ ^e	1 σ	$\frac{^{207}\text{Pb}}{^{206}\text{Pb}}$ ^e	1 σ
2712M06-26	97	0.5	3088	0.02916	(2.1)	0.18751	(12.8)	0.04664	(12.6)	0.16	185.3	3.8	174.5	22.3	30.9	314.0
2712M06-28	37	0.4	710	0.03070	(6.5)	0.35307	(34.0)	0.08341	(33.3)	0.19	194.9	12.5	307.0	104.3	1278.7	668.8
2712M06-29	149	0.4	2914	0.03573	(1.7)	0.24601	(20.5)	0.04994	(20.5)	0.05	226.3	3.8	223.3	45.9	192.2	508.9
2712M06-31	130	0.3	4014	0.03042	(2.0)	0.22427	(15.8)	0.05347	(15.6)	0.10	193.2	3.8	205.5	32.4	348.8	355.3
2712M06-32	138	0.4	3363	0.02981	(1.7)	0.24185	(23.8)	0.05885	(23.8)	0.03	189.3	3.2	219.9	52.4	561.4	525.0
2712M06-33	27	0.4	796	0.02949	(5.7)	0.38448	(28.5)	0.09455	(28.0)	0.20	187.4	10.5	330.3	94.3	1519.1	538.2
2712M06-34	26	0.3	599	0.03080	(9.6)	0.28244	(46.4)	0.06651	(45.4)	0.21	195.5	18.5	252.6	117.2	822.6	1160.2
2712M06-35	60	0.5	582	0.02676	(2.8)	0.09727	(60.1)	0.02636	(60.1)	0.04	170.2	4.8	94.2	56.7	-1575.7	2381.8
2712M06-36	174	0.5	5385	0.02973	(1.9)	0.22233	(16.9)	0.05424	(16.8)	0.04	188.9	3.5	203.8	34.5	381.0	380.9
2712M06-37	30	0.3	2570	0.02925	(4.4)	0.36654	(35.9)	0.09090	(35.6)	0.12	185.8	8.1	317.1	113.8	1444.4	701.8
2712M06-38	32	0.3	860	0.03363	(9.1)	0.47539	(34.3)	0.10252	(33.1)	0.27	213.2	19.2	394.9	135.6	1670.3	630.4
2712M06-39	332	0.5	3143	0.03183	(3.2)	0.21084	(10.5)	0.04805	(10.0)	0.51	202.0	6.4	194.3	20.4	101.6	243.9
2712M06-40	268	0.5	4326	0.02838	(2.1)	0.17836	(15.4)	0.04559	(15.2)	0.08	180.4	3.8	166.7	25.6	-24.2	385.4
2712M06-41	27	0.3	568	0.03177	(9.8)	0.33507	(32.4)	0.07650	(30.9)	0.31	201.6	19.4	293.4	95.0	1108.1	631.4
2712M06-42	120	0.4	2735	0.02952	(2.3)	0.29402	(23.4)	0.07225	(23.2)	0.07	187.5	4.3	261.7	61.1	992.9	478.7
2712M06-43	74	0.4	1912	0.03459	(4.3)	0.39041	(33.2)	0.08185	(32.9)	0.12	219.2	9.3	334.7	111.0	1242.0	662.7
2712M06-44	143	0.5	3129	0.03027	(2.0)	0.24107	(17.6)	0.05776	(17.5)	0.08	192.2	3.8	219.3	38.6	520.7	386.8
2712M06-45	17	0.2	865	0.03282	(12.8)	0.45301	(55.9)	0.10011	(54.4)	0.23	208.2	26.2	379.4	212.2	1626.2	1105.3
2712M06-46	312	0.5	8839	0.02947	(1.5)	0.21077	(15.2)	0.05188	(15.1)	0.05	187.2	2.8	194.2	29.4	279.9	362.5
2712M06-48	88	0.5	1982	0.02873	(1.8)	0.18053	(35.6)	0.04558	(35.5)	0.03	182.6	3.2	168.5	60.0	-24.6	973.8
2712M06-49	101	0.3	3878	0.03058	(2.9)	0.23712	(23.6)	0.05623	(23.4)	0.12	194.2	5.6	216.1	50.9	461.4	563.2
2712M06-50	197	0.4	3718	0.03294	(1.5)	0.25523	(13.9)	0.05620	(13.8)	0.06	208.9	3.0	230.8	32.1	460.1	307.8

^a U concentrations (ppm) and Th/U ratios were calibrated assuming uniform concentrations of U = 148 ppm and Th = 100 ppm (Black et al., 2004) in the R33 zircon standard.

^b Observed isotopic ratios corrected for fractionation as described in the text.

^c Radiogenic $\frac{^{207}\text{Pb}}{^{206}\text{Pb}}$ and $\frac{^{206}\text{Pb}}{^{238}\text{U}}$ ratios corrected for fractionation and common Pb ratios calculated using the Stacey and Kramers (1975) Pb model. One sigma percent errors are shown in parentheses.

^d Correlation coefficient of radiogenic $\frac{^{207}\text{Pb}}{^{235}\text{U}}$ and $\frac{^{206}\text{Pb}}{^{238}\text{U}}$ were calculated as $\rho = 2\sigma_{^{206}/^{238}}/2\sigma_{^{207}/^{235}}$

^e Ages (Ma) calculated using $\frac{^{238}\text{U}}{^{235}\text{U}} = 137.88$, and decay constants of $^{238}\text{U} = 1.5513 \times 10^{-10} \text{ yr}^{-1}$ and $^{235}\text{U} = 9.8485 \times 10^{-10} \text{ yr}^{-1}$. Age uncertainties are 1 σ absolute errors.

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