Relative Abundances		36Ar [fA]	%1σ	37Ar [fA]	%1σ	38Ar [fA]	%1σ	39Ar [fA]	%1σ	40Ar [fA]	%1σ	40(r)/39(k) ± 2σ	Age ± 2σ (ka)	40Ar(r) (%)	39Ar(k) (%)	K/Ca ± 2σ
15D04156	1.8 %	1.748211	0.351	17.3758	10.055	0.473251	8.573	10.0390	0.509	525.5423	0.074	1.02662 ± 0.37120	3126.7 ± 1129.6	1.96	0.69	0.248 ± 0.050
15D04157	1.9 %	1.911505	0.346	18.9213	8.809	0.564944	6.958	13.2591	0.393	567.2604	0.068	0.29279 ± 0.30142	892.3 ± 918.3	0.68	0.91	0.301 ± 0.053
15D04158	2.0 %	1.546748	0.361	19.6952	8.764	0.519461	7.516	12.8787	0.403	461.1305	0.084	0.43509 ± 0.26421	1325.8 ± 804.8	1.21	0.88	0.281 ± 0.049
15D04160	2.1 %	1.224295	0.381	20.4866	8.110	0.433077	9.007	12.2304	0.420	366.6700	0.105	0.53064 ± 0.23507	1616.8 ± 715.9	1.77	0.84	0.256 ± 0.042
15D04161	2.2 %	1.023280	0.383	17.9295	9.748	0.362846	11.401	11.8145	0.438	305.0677	0.126	0.34557 ± 0.20802	1053.1 ± 633.7	1.34	0.81	0.283 ± 0.055
15D04162	2.3 %	0.822157	0.396	17.0934	10.122	0.312309	12.794	10.5365	0.491	245.1527	0.157	0.33555 ± 0.19875	1022.6 ± 605.5	1.44	0.72	0.265 ± 0.054
15D04164	2.4 %	1.066816	0.393	24.9281	6.630	0.429557	9.287	14.4104	0.360	321.2348	0.120	0.55072 ± 0.18130	1678.0 ± 552.1	2.47	0.99	0.248 ± 0.033
15D04165	2.6 %	1.305298	0.367	30.4702	5.693	0.517631	7.552	19.3823	0.272	392.1090	0.098	0.45221 ± 0.15210	1377.9 ± 463.3	2.23	1.33	0.273 ± 0.031
15D04166	2.8 %	1.062939	0.385	30.4440	5.660	0.456482	8.651	19.5951	0.276	321.1651	0.120	0.48149 ± 0.13047	1467.1 ± 397.4	2.93	1.34	0.276 ± 0.031
15D04168	3.0 %	1.079440	0.390	33.5180	5.262	0.496519	7.777	21.6277	0.249	326.6992	0.118	0.47776 ± 0.12121	1455.8 ± 369.2	3.16	1.48	0.277 ± 0.029
15D04169	3.2 %	1.543697	0.363	54.2986	3.319	0.794748	4.968	33.0379	0.174	464.9691	0.083	0.39456 ± 0.10354	1202.3 ± 315.4	2.80	2.26	0.261 ± 0.017
15D04170	3.4 %	1.281194	0.368	53.5774	3.116	0.711855	5.822	33.2038	0.170	393.0883	0.098	0.56230 ± 0.08761	1713.2 ± 266.8	4.74	2.28	0.266 ± 0.017
15D04172	3.6 %	1.316419	0.354	67.4392	2.581	0.853654	4.566	39.9856	0.155	408.4758	0.095	0.61864 ± 0.07206	1884.8 ± 219.4	6.05	2.74	0.255 ± 0.013
15D04173	3.9 %	0.945655	0.406	60.1079	2.845	0.632767	6.030	34.5638	0.169	297.8012	0.130	0.66680 ± 0.06985	2031.4 ± 212.7	7.73	2.37	0.247 ± 0.014
15D04174	4.2 %	1.549763	0.345	104.6563	1.717	1.014736	3.855	57.2678	0.116	484.9030	0.080	0.61299 ± 0.05704	1867.6 ± 173.7	7.23	3.92	0.235 ± 0.008
15D04176	4.5 %	1.499092	0.349	130.3032	1.449	1.116622	3.555	65.5172	0.109	476.9737	0.081	0.67400 ± 0.04890	2053.4 ± 148.9	9.25	4.49	0.216 ± 0.006
15D04177	4.8 %	1.212899	0.375	135.9160	1.368	1.096362	3.823	63.8239	0.111	388.8455	0.099	0.64309 ± 0.04412	1959.3 ± 134.4	10.54	4.37	0.202 ± 0.006
15D04178	5.1 %	1.241220	0.365	156.9210	1.271	1.165151	3.626	69.9509	0.107	398.0991	0.097	0.62284 ± 0.04014	1897.6 ± 122.2	10.93	4.79	0.191 ± 0.005
15D04180	5.4 %	1.078557	0.392	174.3369	1.141	1.140919	3.492	71.5565	0.106	344.6971	0.112	0.55325 ± 0.03688	1685.7 ± 112.3	11.47	4.90	0.176 ± 0.004
15D04181	5.8 %	0.943446	0.390	190.9967	1.058	1.150179	3.423	72.1540	0.103	310.6810	0.124	0.64886 ± 0.03235	1976.8 ± 98.5	15.04	4.94	0.162 ± 0.003
15D04182	6.2 %	0.878632	0.390	206.3437	0.971	1.157916	3.357	73.7928	0.104	286.4604	0.135	0.58194 ± 0.02976	1773.0 ± 90.6	14.96	5.05	0.153 ± 0.003
15D04184	6.8 %	0.710729	0.415	255.4397	0.896	1.250667	3.340	81.1119	0.098	238.1954	0.162	0.59351 ± 0.02398	1808.3 ± 73.0	20.17	5.55	0.136 ± 0.002
15D04185	7.4 %	0.478421	0.511	288.3293	0.835	1.276768	3.149	81.6559	0.098	155.9466	0.247	0.45430 ± 0.02063	1384.3 ± 62.8	23.73	5.59	0.121 ± 0.002
15D04186	8.3 %	0.362510	0.522	408.6546	0.723	1.658743	2.410	97.7579	0.092	116.0596	0.331	0.41816 ± 0.01472	1274.2 ± 44.8	35.12	6.69	0.103 ± 0.001
15D04188	9.3 %	0.262111	0.609	516.9723	0.665	1.800398	2.258	101.9365	0.089	77.3050	0.497	0.39506 ± 0.01311	1203.8 ± 39.9	51.92	6.97	0.084 ± 0.001
15D04189	10.4 %	0.222253	0.667	482.7117	0.684	1.666540	2.259	80.8067	0.099	58.7280	0.654	0.38137 ± 0.01584	1162.1 ± 48.2	52.26	5.52	0.072 ± 0.001
15D04190	11.7 %	0.219332	0.654	472.2859	0.687	1.784495	2.161	68.7993	0.105	53.1975	0.722	0.36867 ± 0.01829	1123.5 ± 55.7	47.46	4.70	0.062 ± 0.001
15D04192	13.5 %	0.218806	0.653	432.2881	0.691	1.792666	2.163	57.4050	0.117	51.4257	0.747	0.35953 ± 0.02161	1095.6 ± 65.8	39.93	3.92	0.057 ± 0.001
15D04193	15.5 %	0.181276	0.734	336.4990	0.765	0.987649	3.983	45.7556	0.139	44.5491	0.862	0.37837 ± 0.02573	1153.0 ± 78.4	38.67	3.12	0.058 ± 0.001
15D04194	17.6 %	0.135320	0.887	235.6258	0.909	0.603005	6.242	35.1665	0.162	34.6215	1.109	0.37127 ± 0.03137	1131.4 ± 95.6	37.54	2.40	0.064 ± 0.001
15D04196	19.8 %	0.101634	1.025	167.6034	1.156	0.430008	8.792	25.3582	0.210	26.4275	1.453	0.37455 ± 0.04081	1141.4 ± 124.3	35.78	1.73	0.065 ± 0.002
15D04197	22.1 %	0.078509	1.280	120.5961	1.521	0.211482	18.766	14.8467	0.347	19.2155	1.999	0.36653 ± 0.06861	1116.9 ± 209.0	28.17	1.01	0.053 ± 0.002
15D04198	24.5 %	0.070023	1.369	135.0627	1.408	0.155725	24.913	10.3054	0.503	14.9052	2.575	0.46428 ± 0.09793	1414.7 ± 298.3	31.82	0.70	0.033 ± 0.001
	Σ	29.322187	0.076	5417.8278	0.227	29.019131	0.784	1461.5337	0.025	8977.6022	0.025					

Information on Analysis and Constants Used in Calculations

Project = **MULLIONS (13-INT-09)**
Sample = **RR1310-D44-12**
Material = **Groundmass**
Location = **Lau Basin**
Region = **South Pacific**
Analyst = **Kevin Konrad**
Irradiation = **14-OSU-04 (4C12-14)**
Position = **X: 0 | Y: 0 | Z/H: 26.28 mm**
FCT-NM Age = **28.201 ± 0.023 Ma**
FCT-NM Reference = **Kuiper et al (2008)**
FCT-NM 40Ar/39Ar Ratio = **9.32400 ± 0.01203**
FCT-NM J-value = **0.00168569 ± 0.00000217**
Air Shot 40Ar/36Ar = **303.6930 ± 0.5375**
Air Shot MDF = **0.99324681 ± 0.00072048 (LIN)**
Experiment Type = **Incremental Heating**
Extraction Method = **Bulk Laser Heating**
Heating = **77 sec**
Isolation = **6.00 min**
Instrument = **ARGUS-VI-D**
Preferred Age = **No Age**
Age Classification = Undefined
IGSN = **IEKK1-RR1310-D44-12**
Rock Class = **Igneous>Volcanic>Mafic**
Lithology = **Basalt**
Lat-Lon = **14°39.6'S - 174°51.6'W**

Age Equations = **Min et al. (2000)**
Negative Intensities = **Allowed**
Collector Calibrations = **40Ar 36Ar**
Decay 40K = **5.530 ± 0.048 E-10 1/a**
Decay 39Ar = **2.940 ± 0.016 E-07 1/h**
Decay 37Ar = **8.230 ± 0.012 E-04 1/h**
Decay 36Cl = **2.257 ± 0.015 E-06 1/a**
Decay 40K(EC,β⁺) = **0.580 ± 0.009 E-10 1/a**
Decay 40K(β⁻) = **4.950 ± 0.043 E-10 1/a**
Atmospheric 40/36(a) = **295.50**
Atmospheric 38/36(a) = **0.1869**
Production 39/37(ca) = **0.0006730**
Production 38/37(ca) = **0.0000139**
Production 36/37(ca) = **0.0002640**
Production 40/39(k) = **0.001010**
Production 38/39(k) = **0.011380**
Production 36/38(cl) = **262.80 ± 1.71**
Scaling Ratio K/Ca = **0.430**
Abundance Ratio 40K/K = **1.1700 ± 0.0100 E-04**
Atomic Weight K = **39.0983 ± 0.0001 g**

Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (ka)	MSWD	39Ar(k) (%,n)	K/Ca ± 2σ
Age Plateau						
Cannot Calculate						
Total Fusion Age		0.50396 ± 0.00964 ± 1.91%	**1535.6 ± 29.6 ± 1.93%**		33	0.116 ± 0.001
			Full External Error ± 45.6			
			Analytical Error ± 29.4			
Normal Isochron						
Cannot Calculate						
Inverse Isochron						
Cannot Calculate						

Notes
No plateau developed.

Incremental Heating		36Ar(a) [fA]	37Ar(ca) [fA]	38Ar(cl) [fA]	39Ar(k) [fA]	40Ar(r) [fA]	Age ± 2σ (ka)	40Ar(r) (%)	39Ar(k) (%)	K/Ca ± 2σ
15D04156	1.8 %	1.743614	17.3758	0.0330181	10.0273	10.29420	3126.7 ± 1129.6	1.96	0.69	0.248 ± 0.050
15D04157	1.9 %	1.906493	18.9213	0.0576134	13.2464	3.87846	892.3 ± 918.3	0.68	0.91	0.301 ± 0.053
15D04158	2.0 %	1.541522	19.6952	0.0846681	12.8654	5.59764	1325.8 ± 804.8	1.21	0.88	0.281 ± 0.049
15D04160	2.1 %	1.218866	20.4866	0.0659610	12.2166	6.48258	1616.8 ± 715.9	1.77	0.84	0.256 ± 0.042
15D04161	2.2 %	1.018535	17.9295	0.0379209	11.8025	4.07855	1053.1 ± 633.7	1.34	0.81	0.283 ± 0.055
15D04162	2.3 %	0.817632	17.0934	0.0394813	10.5250	3.53169	1022.6 ± 605.5	1.44	0.72	0.265 ± 0.054
15D04164	2.4 %	1.060214	24.9281	0.0672571	14.3936	7.92692	1678.0 ± 552.1	2.47	0.99	0.248 ± 0.033
15D04165	2.6 %	1.297238	30.4702	0.0544163	19.3618	8.75563	1377.9 ± 463.3	2.23	1.33	0.273 ± 0.031
15D04166	2.8 %	1.054891	30.4440	0.0361401	19.5746	9.42504	1467.1 ± 397.4	2.93	1.34	0.276 ± 0.031
15D04168	3.0 %	1.070576	33.5180	0.0500959	21.6052	10.32218	1455.8 ± 369.2	3.16	1.48	0.277 ± 0.029
15D04169	3.2 %	1.529322	54.2986	0.1326068	33.0014	13.02112	1202.3 ± 315.4	2.80	2.26	0.261 ± 0.017
15D04170	3.4 %	1.267020	53.5774	0.0968548	33.1678	18.65040	1713.2 ± 266.8	4.74	2.28	0.266 ± 0.017
15D04172	3.6 %	1.298568	67.4392	0.1554948	39.9402	24.70848	1884.8 ± 219.4	6.05	2.74	0.255 ± 0.013
15D04173	3.9 %	0.929767	60.1079	0.0652815	34.5234	23.02012	2031.4 ± 212.7	7.73	2.37	0.247 ± 0.014
15D04174	4.2 %	1.522111	104.6563	0.0778929	57.1974	35.06151	1867.6 ± 173.7	7.23	3.92	0.235 ± 0.008
15D04176	4.5 %	1.464663	130.3032	0.0964777	65.4295	44.09967	2053.4 ± 148.9	9.25	4.49	0.216 ± 0.006
15D04177	4.8 %	1.176972	135.9160	0.1492212	63.7324	40.98580	1959.3 ± 134.4	10.54	4.37	0.202 ± 0.006
15D04178	5.1 %	1.199749	156.9210	0.1438981	69.8452	43.50266	1897.6 ± 122.2	10.93	4.79	0.191 ± 0.005
15D04180	5.4 %	1.032492	174.3369	0.1325459	71.4391	39.52364	1685.7 ± 112.3	11.47	4.90	0.176 ± 0.004
15D04181	5.8 %	0.892974	190.9967	0.1609770	72.0255	46.73447	1976.8 ± 98.5	15.04	4.94	0.162 ± 0.003
15D04182	6.2 %	0.824108	206.3437	0.1628397	73.6540	42.86202	1773.0 ± 90.6	14.96	5.05	0.153 ± 0.003
15D04184	6.8 %	0.643231	255.4397	0.2057993	80.9400	48.03879	1808.3 ± 73.0	20.17	5.55	0.136 ± 0.002
15D04185	7.4 %	0.402220	288.3293	0.2705489	81.4619	37.00817	1384.3 ± 62.8	23.73	5.59	0.121 ± 0.002
15D04186	8.3 %	0.254475	408.6546	0.4961463	97.4828	40.76360	1274.2 ± 44.8	35.12	6.69	0.103 ± 0.001
15D04188	9.3 %	0.125445	516.9723	0.6136881	101.5886	40.13346	1203.8 ± 39.9	51.92	6.97	0.084 ± 0.001
15D04189	10.4 %	0.094597	482.7117	0.7262665	80.4819	30.69315	1162.1 ± 48.2	52.26	5.52	0.072 ± 0.001
15D04190	11.7 %	0.094352	472.2859	0.9809763	68.4815	25.24733	1123.5 ± 55.7	47.46	4.70	0.062 ± 0.001
15D04192	13.5 %	0.104344	432.2881	1.1171976	57.1141	20.53426	1095.6 ± 65.8	39.93	3.92	0.057 ± 0.001
15D04193	15.5 %	0.092305	336.4990	0.4475978	45.5292	17.22703	1153.0 ± 78.4	38.67	3.12	0.058 ± 0.001
15D04194	17.6 %	0.073058	235.6258	0.1876851	35.0079	12.99744	1131.4 ± 95.6	37.54	2.40	0.064 ± 0.001
15D04196	19.8 %	0.057348	167.6034	0.1296667	25.2454	9.45577	1141.4 ± 124.3	35.78	1.73	0.065 ± 0.002
15D04197	22.1 %	0.046661	120.5961	0.0330533	14.7655	5.41208	1116.9 ± 209.0	28.17	1.01	0.053 ± 0.002
15D04198	24.5 %	0.034357	135.0627	0.0311851	10.2145	4.74244	1414.7 ± 298.3	31.82	0.70	0.033 ± 0.001
	Σ	27.889724	5417.8278	7.1404738	1457.8875	734.71629				

Information on Analysis

Project = **MULLIONS (13-INT-09)**
Sample = **RR1310-D44-12**
Material = **Groundmass**
Location = **Lau Basin**
Region = **South Pacific**
Analyst = **Kevin Konrad**
Irradiation = **14-OSU-04 (4C12-14)**
J = **0.00168569 ± 0.00000217**
FCT-NM = **28.201 ± 0.023 Ma**

Results	40(r)/39(k) ± 2σ	Age ± 2σ (ka)	MSWD	39Ar(k) (%,n)	K/Ca ± 2σ
Age Plateau					
Cannot Calculate					
Total Fusion Age	0.50396 ± 0.00964 ± 1.91%	**1535.6 ± 29.6 ± 1.93%**		33	0.116 ± 0.001
	Full External Error	± 45.6			
	Analytical Error	± 29.4			

Normal Isochron		39(k)/36(a) ± 2σ	40(a+r)/36(a) ± 2σ	r.i.
15D04156	1.8 %	5.75 ± 0.07	301.40 ± 2.17	0.5574
15D04157	1.9 %	6.95 ± 0.07	297.53 ± 2.11	0.6496
15D04158	2.0 %	8.35 ± 0.09	299.13 ± 2.23	0.6521
15D04160	2.1 %	10.02 ± 0.11	300.82 ± 2.40	0.6505
15D04161	2.2 %	11.59 ± 0.14	299.50 ± 2.44	0.6292
15D04162	2.3 %	12.87 ± 0.16	299.82 ± 2.59	0.5903
15D04164	2.4 %	13.58 ± 0.15	302.98 ± 2.52	0.7094
15D04165	2.6 %	14.93 ± 0.14	302.25 ± 2.32	0.7789
15D04166	2.8 %	18.56 ± 0.18	304.43 ± 2.49	0.7803
15D04168	3.0 %	20.18 ± 0.19	305.14 ± 2.52	0.8107
15D04169	3.2 %	21.58 ± 0.18	304.01 ± 2.30	0.8815
15D04170	3.4 %	26.18 ± 0.22	310.22 ± 2.40	0.8802
15D04172	3.6 %	30.76 ± 0.24	314.53 ± 2.35	0.8891
15D04173	3.9 %	37.13 ± 0.33	320.26 ± 2.79	0.8840
15D04174	4.2 %	37.58 ± 0.28	318.53 ± 2.30	0.9264
15D04176	4.5 %	44.67 ± 0.33	325.61 ± 2.39	0.9329
15D04177	4.8 %	54.15 ± 0.44	330.32 ± 2.65	0.9315
15D04178	5.1 %	58.22 ± 0.46	331.76 ± 2.60	0.9326
15D04180	5.4 %	69.19 ± 0.59	333.78 ± 2.85	0.9348
15D04181	5.8 %	80.66 ± 0.69	347.84 ± 3.02	0.9300
15D04182	6.2 %	89.37 ± 0.77	347.51 ± 3.07	0.9246
15D04184	6.8 %	125.83 ± 1.20	370.18 ± 3.67	0.9247
15D04185	7.4 %	202.53 ± 2.57	387.51 ± 5.23	0.9195
15D04186	8.3 %	383.07 ± 6.20	455.69 ± 7.93	0.9183
15D04188	9.3 %	809.83 ± 23.75	615.43 ± 19.03	0.9450
15D04189	10.4 %	850.78 ± 30.96	619.96 ± 23.94	0.9394
15D04190	11.7 %	725.81 ± 25.76	563.09 ± 21.55	0.9243
15D04192	13.5 %	547.36 ± 17.17	492.29 ± 17.07	0.8997
15D04193	15.5 %	493.25 ± 16.03	482.13 ± 17.69	0.8792
15D04194	17.6 %	479.18 ± 17.47	473.41 ± 20.15	0.8497
15D04196	19.8 %	440.22 ± 17.91	460.38 ± 22.95	0.8077
15D04197	22.1 %	316.44 ± 15.30	411.49 ± 25.66	0.7590
15D04198	24.5 %	297.31 ± 18.97	433.53 ± 35.29	0.7641

Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (ka)	MSWD
Normal Isochron				
Cannot Calculate				

Inverse Isochron		39(k)/40(a+r) ± 2σ	36(a)/40(a+r) ± 2σ	r.i.
15D04156	1.8 %	0.0190802 ± 0.0001966	0.00331781 ± 0.00002394	0.0292
15D04157	1.9 %	0.0233520 ± 0.0001865	0.00336096 ± 0.00002381	0.0330
15D04158	2.0 %	0.0279005 ± 0.0002299	0.00334301 ± 0.00002493	0.0457
15D04160	2.1 %	0.0333189 ± 0.0002887	0.00332426 ± 0.00002647	0.0642
15D04161	2.2 %	0.0386895 ± 0.0003531	0.00333885 ± 0.00002720	0.0860
15D04162	2.3 %	0.0429342 ± 0.0004429	0.00333534 ± 0.00002882	0.1108
15D04164	2.4 %	0.0448093 ± 0.0003405	0.00330058 ± 0.00002743	0.0913
15D04165	2.6 %	0.0493812 ± 0.0002860	0.00330853 ± 0.00002538	0.0871
15D04166	2.8 %	0.0609526 ± 0.0003672	0.00328478 ± 0.00002684	0.1171
15D04168	3.0 %	0.0661361 ± 0.0003647	0.00327717 ± 0.00002705	0.1225
15D04169	3.2 %	0.0709805 ± 0.0002744	0.00328932 ± 0.00002483	0.0945
15D04170	3.4 %	0.0843846 ± 0.0003318	0.00322352 ± 0.00002493	0.1270
15D04172	3.6 %	0.0977882 ± 0.0003548	0.00317937 ± 0.00002374	0.1321
15D04173	3.9 %	0.1159412 ± 0.0004946	0.00312247 ± 0.00002718	0.1810
15D04174	4.2 %	0.1179703 ± 0.0003322	0.00313937 ± 0.00002268	0.1249
15D04176	4.5 %	0.1371953 ± 0.0003737	0.00307117 ± 0.00002258	0.1309
15D04177	4.8 %	0.1639289 ± 0.0004887	0.00302734 ± 0.00002428	0.1652
15D04178	5.1 %	0.1754780 ± 0.0005067	0.00301423 ± 0.00002363	0.1665
15D04180	5.4 %	0.2072953 ± 0.0006388	0.00299599 ± 0.00002562	0.1907
15D04181	5.8 %	0.2318852 ± 0.0007493	0.00287492 ± 0.00002497	0.2195
15D04182	6.2 %	0.2571842 ± 0.0008755	0.00287761 ± 0.00002543	0.2414
15D04184	6.8 %	0.3399218 ± 0.0012889	0.00270136 ± 0.00002675	0.2800
15D04185	7.4 %	0.5226463 ± 0.0027762	0.00258058 ± 0.00003481	0.3399
15D04186	8.3 %	0.8406511 ± 0.0057899	0.00219449 ± 0.00003817	0.3675
15D04188	9.3 %	1.3158735 ± 0.0133128	0.00162488 ± 0.00005024	0.3169
15D04189	10.4 %	1.3723169 ± 0.0181723	0.00161301 ± 0.00006230	0.3352
15D04190	11.7 %	1.2889824 ± 0.0188247	0.00177592 ± 0.00006795	0.3737
15D04192	13.5 %	1.1118597 ± 0.0168283	0.00203131 ± 0.00007043	0.4260
15D04193	15.5 %	1.0230551 ± 0.0178849	0.00207412 ± 0.00007610	0.4644
15D04194	17.6 %	1.0121939 ± 0.0227181	0.00211236 ± 0.00008992	0.5162
15D04196	19.8 %	0.9561935 ± 0.0281038	0.00217210 ± 0.00010826	0.5775
15D04197	22.1 %	0.7690167 ± 0.0312278	0.00243022 ± 0.00015153	0.6320
15D04198	24.5 %	0.6857739 ± 0.0360241	0.00230662 ± 0.00018774	0.6213

Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (ka)	MSWD
Inverse Isochron				
Cannot Calculate				

Degassing Patterns			36Ar(a) [fA]	%1σ	36Ar(c) [fA]	%1σ	36Ar(ca) [fA]	%1σ	36Ar(cl) [fA]	%1σ	37Ar(ca) [fA]	%1σ	38Ar(a) [fA]	%1σ	38Ar(c) [fA]	%1σ	38Ar(k) [fA]	%1σ	38Ar(ca) [fA]	%1σ	38Ar(cl) [fA]	%1σ	39Ar(k) [fA]	%1σ	39Ar(ca) [fA]	%1σ	40Ar(r) [fA]	%1σ	40Ar(a) [fA]	%1σ	40Ar(c) [fA]	%1σ	40Ar(k) [fA]	%1σ
15D04156	1.8 %		1.743614	0.35	0.0000000	0.00	0.0045872	10.05	0.0000100	122.95	17.3758	10.05	0.3258815	0.35	0.0000000	0.00	0.114110	0.51	0.0002415	10.05	0.0330181	122.95	10.0273	0.51	0.0116939	10.05	10.29420	18.07	515.2380	0.35	0.0000000	0.00	0.0101275	0.51
15D04157	1.9 %		1.906493	0.35	0.0000000	0.00	0.0049952	8.81	0.0000174	68.28	18.9213	8.81	0.3563235	0.35	0.0000000	0.00	0.150744	0.39	0.0002630	8.81	0.0576134	68.29	13.2464	0.39	0.0127340	8.81	3.87846	51.47	563.3686	0.35	0.0000000	0.00	0.0133788	0.39
15D04158	2.0 %		1.541522	0.36	0.0000000	0.00	0.0051995	8.76	0.0000255	46.15	19.6952	8.76	0.2881105	0.36	0.0000000	0.00	0.146408	0.40	0.0002738	8.76	0.0846681	46.16	12.8654	0.40	0.0132549	8.76	5.59764	30.36	455.5199	0.36	0.0000000	0.00	0.0129941	0.40
15D04160	2.1 %		1.218866	0.38	0.0000000	0.00	0.0054085	8.11	0.0000199	59.17	20.4866	8.11	0.2278061	0.38	0.0000000	0.00	0.139025	0.42	0.0002848	8.11	0.0659610	59.18	12.2166	0.42	0.0137875	8.11	6.48258	22.15	360.1750	0.38	0.0000000	0.00	0.0123388	0.42
15D04161	2.2 %		1.018535	0.39	0.0000000	0.00	0.0047334	9.75	0.0000114	109.13	17.9295	9.75	0.1903643	0.39	0.0000000	0.00	0.134312	0.44	0.0002492	9.75	0.0379209	109.13	11.8025	0.44	0.0120666	9.75	4.07855	30.10	300.9772	0.39	0.0000000	0.00	0.0119205	0.44
15D04162	2.3 %		0.817632	0.40	0.0000000	0.00	0.0045127	10.12	0.0000119	101.24	17.0934	10.12	0.1528155	0.40	0.0000000	0.00	0.119774	0.49	0.0002376	10.12	0.0394813	101.24	10.5250	0.49	0.0115039	10.12	3.53169	29.61	241.6103	0.40	0.0000000	0.00	0.0106302	0.49
15D04164	2.4 %		1.060214	0.40	0.0000000	0.00	0.0065810	6.63	0.0000203	59.34	24.9281	6.63	0.1981541	0.40	0.0000000	0.00	0.163800	0.36	0.0003465	6.63	0.0672571	59.35	14.3936	0.36	0.0167766	6.63	7.92692	16.46	313.2934	0.40	0.0000000	0.00	0.0145376	0.36
15D04165	2.6 %		1.297238	0.37	0.0000000	0.00	0.0080441	5.69	0.0000164	71.87	30.4702	5.69	0.2424538	0.37	0.0000000	0.00	0.220338	0.27	0.0004235	5.69	0.0544163	71.88	19.3618	0.27	0.0205065	5.69	8.75563	16.82	383.3338	0.37	0.0000000	0.00	0.0195554	0.27
15D04166	2.8 %		1.054891	0.39	0.0000000	0.00	0.0080372	5.66	0.0000109	109.31	30.4440	5.66	0.1971591	0.39	0.0000000	0.00	0.222759	0.28	0.0004232	5.66	0.0361401	109.32	19.5746	0.28	0.0204888	5.66	9.42504	13.55	311.7203	0.39	0.0000000	0.00	0.0197704	0.28
15D04168	3.0 %		1.070576	0.40	0.0000000	0.00	0.0088488	5.26	0.0000151	77.11	33.5180	5.26	0.2000906	0.40	0.0000000	0.00	0.245867	0.25	0.0004659	5.26	0.0500959	77.12	21.6052	0.25	0.0225576	5.26	10.32218	12.68	316.3552	0.40	0.0000000	0.00	0.0218212	0.25
15D04169	3.2 %		1.529322	0.37	0.0000000	0.00	0.0143348	3.32	0.0000400	29.81	54.2986	3.32	0.2858303	0.37	0.0000000	0.00	0.375556	0.17	0.0007548	3.32	0.1326068	29.82	33.0014	0.17	0.0365429	3.32	13.02112	13.12	451.9147	0.37	0.0000000	0.00	0.0333314	0.17
15D04170	3.4 %		1.267020	0.37	0.0000000	0.00	0.0141444	3.12	0.0000292	42.81	53.5774	3.12	0.2368060	0.37	0.0000000	0.00	0.377449	0.17	0.0007447	3.12	0.0968548	42.82	33.1678	0.17	0.0360576	3.12	18.65040	7.79	374.4044	0.37	0.0000000	0.00	0.0334995	0.17
15D04172	3.6 %		1.298568	0.36	0.0000000	0.00	0.0178040	2.58	0.0000469	25.10	67.4392	2.58	0.2427024	0.36	0.0000000	0.00	0.454519	0.15	0.0009374	2.58	0.1554948	25.11	39.9402	0.15	0.0453866	2.58	24.70848	5.82	383.7270	0.36	0.0000000	0.00	0.0403396	0.15
15D04173	3.9 %		0.929767	0.42	0.0000000	0.00	0.0158685	2.85	0.0000197	58.48	60.1079	2.85	0.1737735	0.42	0.0000000	0.00	0.392876	0.17	0.0008355	2.85	0.0652815	58.49	34.5234	0.17	0.0404526	2.85	23.02012	5.23	274.7462	0.42	0.0000000	0.00	0.0348686	0.17
15D04174	4.2 %		1.522111	0.35	0.0000000	0.00	0.0276293	1.72	0.0000235	50.25	104.6563	1.72	0.2844825	0.35	0.0000000	0.00	0.650906	0.12	0.0014547	1.72	0.0778929	50.26	57.1974	0.12	0.0704337	1.72	35.06151	4.65	449.7837	0.35	0.0000000	0.00	0.0577693	0.12
15D04176	4.5 %		1.464663	0.36	0.0000000	0.00	0.0344000	1.45	0.0000291	41.17	130.3032	1.45	0.2737455	0.36	0.0000000	0.00	0.744588	0.11	0.0018112	1.45	0.0964777	41.19	65.4295	0.11	0.0876941	1.45	44.09967	3.63	432.8079	0.36	0.0000000	0.00	0.0660838	0.11
15D04177	4.8 %		1.176972	0.39	0.0000000	0.00	0.0358818	1.37	0.0000450	28.11	135.9160	1.37	0.2199761	0.39	0.0000000	0.00	0.725275	0.11	0.0018892	1.37	0.1492212	28.13	63.7324	0.11	0.0914715	1.37	40.98580	3.43	347.7953	0.39	0.0000000	0.00	0.0643698	0.11
15D04178	5.1 %		1.199749	0.38	0.0000000	0.00	0.0414271	1.27	0.0000434	29.39	156.9210	1.27	0.2242331	0.38	0.0000000	0.00	0.794839	0.11	0.0021812	1.27	0.1438981	29.40	69.8452	0.11	0.1056078	1.27	43.50266	3.22	354.5259	0.38	0.0000000	0.00	0.0705437	0.11
15D04180	5.4 %		1.032492	0.41	0.0000000	0.00	0.0460249	1.14	0.0000400	30.09	174.3369	1.14	0.1929727	0.41	0.0000000	0.00	0.812977	0.11	0.0024233	1.14	0.1325459	30.10	71.4391	0.11	0.1173287	1.14	39.52364	3.33	305.1013	0.41	0.0000000	0.00	0.0721535	0.11
15D04181	5.8 %		0.892974	0.42	0.0000000	0.00	0.0504231	1.06	0.0000486	24.49	190.9967	1.06	0.1668968	0.42	0.0000000	0.00	0.819650	0.10	0.0026549	1.06	0.1609770	24.50	72.0255	0.10	0.1285408	1.06	46.73447	2.49	263.8738	0.42	0.0000000	0.00	0.0727457	0.10
15D04182	6.2 %		0.824108	0.42	0.0000000	0.00	0.0544747	0.97	0.0000492	23.90	206.3437	0.97	0.1540258	0.42	0.0000000	0.00	0.838182	0.10	0.0028682	0.97	0.1628397	23.92	73.6540	0.10	0.1388693	0.97	42.86202	2.56	243.5239	0.42	0.0000000	0.00	0.0743905	0.10
15D04184	6.8 %		0.643231	0.47	0.0000000	0.00	0.0674361	0.90	0.0000621	20.33	255.4397	0.90	0.1202199	0.47	0.0000000	0.00	0.921097	0.10	0.0035506	0.90	0.2057993	20.35	80.9400	0.10	0.1719109	0.90	48.03879	2.02	190.0748	0.47	0.0000000	0.00	0.0817494	0.10
15D04185	7.4 %		0.402220	0.63	0.0000000	0.00	0.0761189	0.84	0.0000817	14.90	288.3293	0.84	0.0751750	0.63	0.0000000	0.00	0.927036	0.10	0.0040078	0.84	0.2705489	14.92	81.4619	0.10	0.1940456	0.84	37.00817	2.27	118.8561	0.63	0.0000000	0.00	0.0822765	0.10
15D04186	8.3 %		0.254475	0.80	0.0000000	0.00	0.1078848	0.72	0.0001498	8.11	408.6546	0.72	0.0475615	0.80	0.0000000	0.00	1.109355	0.09	0.0056803	0.72	0.4961463	8.17	97.4828	0.09	0.2750246	0.72	40.76360	1.76	75.1975	0.80	0.0000000	0.00	0.0984577	0.09
15D04188	9.3 %		0.125445	1.46	0.0000000	0.00	0.1364807	0.66	0.0001854	6.69	516.9723	0.66	0.0234456	1.46	0.0000000	0.00	1.156078	0.09	0.0071859	0.66	0.6136881	6.75	101.5886	0.09	0.3479224	0.66	40.13346	1.66	37.0689	1.46	0.0000000	0.00	0.1026045	0.09
15D04189	10.4 %		0.094597	1.82	0.0000000	0.00	0.1274359	0.68	0.0002194	5.27	482.7117	0.68	0.0176803	1.82	0.0000000	0.00	0.915884	0.10	0.0067097	0.68	0.7262665	5.35	80.4819	0.10	0.3248650	0.68	30.69315	2.07	27.9536	1.82	0.0000000	0.00	0.0812867	0.10
15D04190	11.7 %		0.094352	1.77	0.0000000	0.00	0.1246835	0.69	0.0002963	4.04	472.2859	0.69	0.0176344	1.77	0.0000000	0.00	0.779319	0.11	0.0065648	0.69	0.9809763	4.14	68.4815	0.11	0.3178484	0.69	25.24733	2.48	27.8810	1.77	0.0000000	0.00	0.0691663	0.11
15D04192	13.5 %		0.104344	1.56	0.0000000	0.00	0.1141240	0.69	0.0003375	3.59	432.2881	0.69	0.0195020	1.56	0.0000000	0.00	0.649958	0.12	0.0060088	0.69	1.1171976	3.71	57.1141	0.12	0.2909299	0.69	20.53426	3.00	30.8338	1.56	0.0000000	0.00	0.0576852	0.12
15D04193	15.5 %		0.092305	1.62	0.0000000	0.00	0.0888357	0.76	0.0001352	8.84	336.4990	0.76	0.0172518	1.62	0.0000000	0.00	0.518122	0.14	0.0046773	0.76	0.4475978	8.89	45.5292	0.14	0.2264638	0.76	17.22703	3.40	27.2761	1.62	0.0000000	0.00	0.0459845	0.14
15D04194	17.6 %		0.073058	1.82	0.0000000	0.00	0.0622052	0.91	0.0000567	20.08	235.6258	0.91	0.0136546	1.82	0.0000000	0.00	0.398390	0.16	0.0032752	0.91	0.1876851	20.10	35.0079	0.16	0.1585762	0.91	12.99744	4.22	21.5887	1.82	0.0000000	0.00	0.0353580	0.16
15D04196	19.8 %		0.057348	2.02	0.0000000	0.00	0.0442473	1.16	0.0000392	29.18	167.6034	1.16	0.0107183	2.02	0.0000000	0.00	0.287293	0.21	0.0023297	1.16	0.1296667	29.19	25.2454	0.21	0.1127971	1.16	9.45577	5.44	16.9462	2.02	0.0000000	0.00	0.0254979	0.21
15D04197	22.1 %		0.046661	2.39	0.0000000	0.00	0.0318374	1.52	0.0000100	120.10	120.5961	1.52	0.0087210	2.39	0.0000000	0.00	0.168032	0.35	0.0016763	1.52	0.0330533	120.10	14.7655	0.35	0.0811612	1.52	5.41208	9.35	13.7885	2.39	0.0000000	0.00	0.0149132	0.35
15D04198	24.5 %		0.034357	3.15	0.0000000	0.00	0.0356566	1.41	0.0000094	124.43	135.0627	1.41	0.0064213	3.15	0.0000000	0.00	0.116241	0.51	0.0018774	1.41	0.0311851	124.43	10.2145	0.51	0.0908972	1.41	4.74244	10.53	10.1524	3.15	0.0000000	0.00	0.0103167	0.51
		Σ	27.889724	0.08	0.0000000	0.00	1.4303065	0.23	0.0021565	3.20	5417.8278	0.23	5.2125894	0.08	0.0000000	0.00	16.590760	0.03	0.0753078	0.23	7.1404738	3.21	1457.8875	0.03	3.6461981	0.23	734.71629	0.96	8241.4134	0.08	0.0000000	0.00	1.4724664	0.03
		Σ							29.322187	0.08	5417.8278	0.23									29.019131	0.79			1461.5337	0.03							8977.6022	0.11

Additional Parameters		40Ar/39Ar	1σ	37Ar/39Ar	1σ	36Ar/39Ar	1σ	Time (days)	37Ar (decay)	39Ar (decay)	40Ar (moles)
15D04156	1.8 %	52.350306	0.269303	1.730841	0.174251	0.174143	0.001077	185.707	39.273561	1.00131209	2.523E-11
15D04157	1.9 %	42.782703	0.170670	1.427043	0.125839	0.144165	0.000755	185.717	39.281104	1.00131216	2.723E-11
15D04158	2.0 %	35.805803	0.147354	1.529293	0.134165	0.120102	0.000650	185.727	39.289187	1.00131223	2.213E-11
15D04160	2.1 %	29.980147	0.129717	1.675052	0.136030	0.100102	0.000567	185.746	39.303740	1.00131236	1.760E-11
15D04161	2.2 %	25.821398	0.117692	1.517584	0.148091	0.086612	0.000504	185.756	39.311289	1.00131243	1.464E-11
15D04162	2.3 %	23.267021	0.119857	1.622308	0.164400	0.078030	0.000492	185.765	39.318838	1.00131250	1.177E-11
15D04164	2.4 %	22.291839	0.084579	1.729868	0.114864	0.074031	0.000395	185.783	39.332863	1.00131263	1.542E-11
15D04165	2.6 %	20.230223	0.058520	1.572061	0.089598	0.067345	0.000307	185.793	39.340417	1.00131270	1.882E-11
15D04166	2.8 %	16.390048	0.049316	1.553653	0.088049	0.054245	0.000257	185.802	39.347433	1.00131276	1.542E-11
15D04168	3.0 %	15.105579	0.041605	1.549770	0.081642	0.049910	0.000231	185.820	39.361468	1.00131289	1.568E-11
15D04169	3.2 %	14.073804	0.027173	1.643523	0.054624	0.046725	0.000188	185.829	39.368487	1.00131295	2.232E-11
15D04170	3.4 %	11.838640	0.023254	1.613592	0.050350	0.038586	0.000157	185.838	39.375508	1.00131302	1.887E-11
15D04172	3.6 %	10.215581	0.018514	1.686590	0.043606	0.032922	0.000127	185.856	39.389553	1.00131315	1.961E-11
15D04173	3.9 %	8.615974	0.018361	1.739039	0.049571	0.027360	0.000120	185.865	39.396037	1.00131320	1.429E-11
15D04174	4.2 %	8.467290	0.011908	1.827490	0.031455	0.027062	0.000098	185.874	39.403063	1.00131327	2.328E-11
15D04176	4.5 %	7.280131	0.009905	1.988840	0.028893	0.022881	0.000084	185.891	39.416577	1.00131339	2.289E-11
15D04177	4.8 %	6.092473	0.009073	2.129547	0.029232	0.019004	0.000074	185.899	39.423066	1.00131345	1.866E-11
15D04178	5.1 %	5.691125	0.008208	2.243303	0.028605	0.017744	0.000067	185.908	39.430096	1.00131351	1.911E-11
15D04180	5.4 %	4.817134	0.007416	2.436354	0.027910	0.015073	0.000061	185.925	39.443079	1.00131363	1.655E-11
15D04181	5.8 %	4.305804	0.006950	2.647070	0.028127	0.013075	0.000053	185.934	39.450113	1.00131369	1.491E-11
15D04182	6.2 %	3.881954	0.006601	2.796256	0.027296	0.011907	0.000048	185.942	39.456607	1.00131375	1.375E-11
15D04184	6.8 %	2.936626	0.005563	3.149225	0.028374	0.008762	0.000037	185.960	39.470139	1.00131388	1.143E-11
15D04185	7.4 %	1.909801	0.005068	3.531027	0.029699	0.005859	0.000030	185.969	39.477178	1.00131394	7.485E-12
15D04186	8.3 %	1.187215	0.004084	4.180274	0.030447	0.003708	0.000020	185.977	39.483677	1.00131400	5.571E-12
15D04188	9.3 %	0.758364	0.003831	5.071513	0.034010	0.002571	0.000016	185.994	39.497218	1.00131412	3.711E-12
15D04189	10.4 %	0.726771	0.004805	5.973657	0.041253	0.002750	0.000019	186.003	39.504262	1.00131419	2.819E-12
15D04190	11.7 %	0.773227	0.005638	6.864689	0.047736	0.003188	0.000021	186.012	39.510765	1.00131424	2.553E-12
15D04192	13.5 %	0.895841	0.006771	7.530496	0.052761	0.003812	0.000025	186.029	39.524316	1.00131437	2.468E-12
15D04193	15.5 %	0.973632	0.008501	7.354262	0.057157	0.003962	0.000030	186.038	39.531365	1.00131443	2.138E-12
15D04194	17.6 %	0.984504	0.011036	6.700295	0.061862	0.003848	0.000035	186.047	39.538414	1.00131449	1.662E-12
15D04196	19.8 %	1.042167	0.015299	6.609429	0.077647	0.004008	0.000042	186.065	39.551975	1.00131462	1.269E-12
15D04197	22.1 %	1.294258	0.026254	8.122752	0.126752	0.005288	0.000070	186.074	39.559029	1.00131468	9.223E-13
15D04198	24.5 %	1.446346	0.037950	13.106009	0.195972	0.006795	0.000099	186.083	39.566083	1.00131474	7.154E-13

Procedure Blanks		36Ar ± 1σ (SE) [fA]	37Ar ± 1σ (SE) [fA]	38Ar ± 1σ (SE) [fA]	39Ar ± 1σ (SE) [fA]	40Ar ± 1σ (SE) [fA]
15D04156	1.8 %	0.0074359 ± 0.0005955	0.0117768 ± 0.0301456	0.0557955 ± 0.0280830	0.0043789 ± 0.0434568	2.0569443 ± 0.3838364
15D04157	1.9 %	0.0075495 ± 0.0005955	0.0058326 ± 0.0301456	0.0577825 ± 0.0280830	0.0052444 ± 0.0434568	1.9851758 ± 0.3838364
15D04158	2.0 %	0.0076676 ± 0.0005955	0.0005745 ± 0.0301456	0.0598218 ± 0.0280830	0.0048408 ± 0.0434568	1.9570260 ± 0.3838364
15D04160	2.1 %	0.0078657 ± 0.0005955	0.0062496 ± 0.0301456	0.0632591 ± 0.0280830	0.0012290 ± 0.0434568	2.0096206 ± 0.3838364
15D04161	2.2 %	0.0079588 ± 0.0005955	0.0085786 ± 0.0301456	0.0649233 ± 0.0280830	0.0018258 ± 0.0434568	2.0779241 ± 0.3838364
15D04162	2.3 %	0.0080443 ± 0.0005955	0.0101652 ± 0.0301456	0.0665067 ± 0.0280830	0.0055123 ± 0.0434568	2.1672580 ± 0.3838364
15D04164	2.4 %	0.0081796 ± 0.0005955	0.0113557 ± 0.0301456	0.0692333 ± 0.0280830	0.0136118 ± 0.0434568	2.3723925 ± 0.3838364
15D04165	2.6 %	0.0082388 ± 0.0005955	0.0111642 ± 0.0301456	0.0705862 ± 0.0280830	0.0184358 ± 0.0434568	2.4957958 ± 0.3838364
15D04166	2.8 %	0.0082847 ± 0.0005955	0.0105328 ± 0.0301456	0.0717702 ± 0.0280830	0.0230840 ± 0.0434568	2.6139197 ± 0.3838364
15D04168	3.0 %	0.0083490 ± 0.0005955	0.0081527 ± 0.0301456	0.0739295 ± 0.0280830	0.0325507 ± 0.0434568	2.8486861 ± 0.3838364
15D04169	3.2 %	0.0083673 ± 0.0005955	0.0064971 ± 0.0301456	0.0749047 ± 0.0280830	0.0372264 ± 0.0434568	2.9602210 ± 0.3838364
15D04170	3.4 %	0.0083763 ± 0.0005955	0.0045919 ± 0.0301456	0.0758104 ± 0.0280830	0.0417769 ± 0.0434568	3.0648654 ± 0.3838364
15D04172	3.6 %	0.0083669 ± 0.0005955	0.0002116 ± 0.0301456	0.0774130 ± 0.0280830	0.0502743 ± 0.0434568	3.2459944 ± 0.3838364
15D04173	3.9 %	0.0083507 ± 0.0005955	0.0019891 ± 0.0301456	0.0780588 ± 0.0280830	0.0538349 ± 0.0434568	3.3141645 ± 0.3838364
15D04174	4.2 %	0.0083252 ± 0.0005955	0.0044466 ± 0.0301456	0.0786915 ± 0.0280830	0.0573790 ± 0.0434568	3.3754331 ± 0.3838364
15D04176	4.5 %	0.0082547 ± 0.0005955	0.0092359 ± 0.0301456	0.0797126 ± 0.0280830	0.0631459 ± 0.0434568	3.4532367 ± 0.3838364
15D04177	4.8 %	0.0082118 ± 0.0005955	0.0114948 ± 0.0301456	0.0801114 ± 0.0280830	0.0653722 ± 0.0434568	3.4708611 ± 0.3838364
15D04178	5.1 %	0.0081596 ± 0.0005955	0.0138631 ± 0.0301456	0.0804764 ± 0.0280830	0.0673572 ± 0.0434568	3.4751443 ± 0.3838364
15D04180	5.4 %	0.0080506 ± 0.0005955	0.0178890 ± 0.0301456	0.0809676 ± 0.0280830	0.0697993 ± 0.0434568	3.4427487 ± 0.3838364
15D04181	5.8 %	0.0079863 ± 0.0005955	0.0198117 ± 0.0301456	0.0811346 ± 0.0280830	0.0704400 ± 0.0434568	3.4039993 ± 0.3838364
15D04182	6.2 %	0.0079251 ± 0.0005955	0.0213833 ± 0.0301456	0.0812271 ± 0.0280830	0.0706007 ± 0.0434568	3.3557211 ± 0.3838364
15D04184	6.8 %	0.0077956 ± 0.0005955	0.0239014 ± 0.0301456	0.0812292 ± 0.0280830	0.0696163 ± 0.0434568	3.2200549 ± 0.3838364
15D04185	7.4 %	0.0077297 ± 0.0005955	0.0247395 ± 0.0301456	0.0811286 ± 0.0280830	0.0684166 ± 0.0434568	3.1331939 ± 0.3838364
15D04186	8.3 %	0.0076715 ± 0.0005955	0.0251866 ± 0.0301456	0.0809740 ± 0.0280830	0.0669086 ± 0.0434568	3.0449150 ± 0.3838364
15D04188	9.3 %	0.0075636 ± 0.0005955	0.0249912 ± 0.0301456	0.0804614 ± 0.0280830	0.0626105 ± 0.0434568	2.8428568 ± 0.3838364
15D04189	10.4 %	0.0075178 ± 0.0005955	0.0242248 ± 0.0301456	0.0800932 ± 0.0280830	0.0598119 ± 0.0434568	2.7323068 ± 0.3838364
15D04190	11.7 %	0.0074838 ± 0.0005955	0.0230765 ± 0.0301456	0.0796916 ± 0.0280830	0.0569259 ± 0.0434568	2.6298261 ± 0.3838364
15D04192	13.5 %	0.0074456 ± 0.0005955	0.0192133 ± 0.0301456	0.0786644 ± 0.0280830	0.0501292 ± 0.0434568	2.4251590 ± 0.3838364
15D04193	15.5 %	0.0074469 ± 0.0005955	0.0163609 ± 0.0301456	0.0780285 ± 0.0280830	0.0462671 ± 0.0434568	2.3294469 ± 0.3838364
15D04194	17.6 %	0.0074655 ± 0.0005955	0.0128919 ± 0.0301456	0.0773231 ± 0.0280830	0.0422527 ± 0.0434568	2.2456438 ± 0.3838364
15D04196	19.8 %	0.0075585 ± 0.0005955	0.0043807 ± 0.0301456	0.0757710 ± 0.0280830	0.0343337 ± 0.0434568	2.1321539 ± 0.3838364
15D04197	22.1 %	0.0076413 ± 0.0005955	0.0010562 ± 0.0301456	0.0748622 ± 0.0280830	0.0302440 ± 0.0434568	2.1058938 ± 0.3838364
15D04198	24.5 %	0.0077508 ± 0.0005955	0.0072208 ± 0.0301456	0.0738838 ± 0.0280830	0.0262718 ± 0.0434568	2.1078943 ± 0.3838364

Intercept Values		36Ar ± 1σ (SE) [fA]	r2	Regression (type,n)	37Ar ± 1σ (SE) [fA]	r2	Regression (type,n)	38Ar ± 1σ (SE) [fA]	r2	Regression (type,n)	39Ar ± 1σ (SE) [fA]	r2	Regression (type,n)	40Ar ± 1σ (SE) [fA]	r2	Regression (type,n)
15D04156	1.8 %	1.6580925 ± 0.0030692	0.9251	EXP 150 of 150	0.4452573 ± 0.0313810	0.0602	EXP 150 of 150	0.4110650 ± 0.0285081	0.0004	EXP 150 of 150	9.953845 ± 0.025101	0.8264	EXP 150 of 150	529.101838 ± 0.056422	0.9978	EXP 150 of 150
15D04157	1.9 %	1.8123878 ± 0.0031816	0.9331	EXP 150 of 150	0.4777780 ± 0.0285054	0.0000	EXP 150 of 150	0.4995321 ± 0.0267308	0.0088	EXP 150 of 150	13.147235 ± 0.026323	0.8814	EXP 150 of 150	570.867450 ± 0.062224	0.9981	EXP 150 of 150
15D04158	2.0 %	1.4681026 ± 0.0029598	0.9166	EXP 150 of 150	0.4917225 ± 0.0305963	0.0010	EXP 150 of 150	0.4526240 ± 0.0263498	0.0298	EXP 150 of 150	12.770244 ± 0.025989	0.8742	EXP 150 of 150	464.405962 ± 0.052914	0.9972	EXP 150 of 150
15D04160	2.1 %	1.1638417 ± 0.0027026	0.8801	EXP 150 of 150	0.5044435 ± 0.0282525	0.0573	EXP 150 of 150	0.3639699 ± 0.0263014	0.0213	EXP 150 of 150	12.130840 ± 0.025039	0.8872	EXP 150 of 150	369.727933 ± 0.048285	0.9947	EXP 150 of 150
15D04161	2.2 %	0.9741373 ± 0.0022696	0.8650	EXP 149 of 150	0.4382860 ± 0.0313443	0.0003	EXP 150 of 150	0.2930232 ± 0.0296053	0.0002	EXP 150 of 150	11.721342 ± 0.025948	0.8652	EXP 150 of 150	308.017812 ± 0.047909	0.9856	EXP 150 of 150
15D04162	2.3 %	0.7843227 ± 0.0019589	0.8519	EXP 150 of 150	0.4157790 ± 0.0307266	0.0025	EXP 150 of 150	0.2415845 ± 0.0276567	0.0022	EXP 150 of 150	10.457263 ± 0.026142	0.8353	EXP 150 of 150	248.020842 ± 0.043593	0.9240	EXP 150 of 150
15D04164	2.4 %	1.0154643 ± 0.0025403	0.8593	EXP 150 of 150	0.6095967 ± 0.0278170	0.0699	EXP 150 of 150	0.3545232 ± 0.0275642	0.0071	EXP 150 of 150	14.308142 ± 0.025524	0.9203	EXP 150 of 150	324.525659 ± 0.047030	0.9937	EXP 150 of 150
15D04165	2.6 %	1.2406982 ± 0.0026040	0.9029	EXP 150 of 150	0.7476943 ± 0.0306411	0.0154	EXP 150 of 150	0.4400549 ± 0.0264165	0.0081	EXP 150 of 150	19.244893 ± 0.025563	0.9546	EXP 150 of 150	395.725862 ± 0.046907	0.9975	EXP 150 of 150
15D04166	2.8 %	1.0119089 ± 0.0024024	0.8807	EXP 150 of 150	0.7475381 ± 0.0302310	0.0058	EXP 150 of 150	0.3785472 ± 0.0269917	0.0013	EXP 150 of 150	19.460620 ± 0.028105	0.9486	EXP 150 of 150	324.697232 ± 0.045647	0.9945	EXP 150 of 150
15D04168	3.0 %	1.0275532 ± 0.0025183	0.8665	EXP 150 of 150	0.8261639 ± 0.0315611	0.0107	EXP 150 of 150	0.4158847 ± 0.0257242	0.0104	EXP 150 of 150	21.486325 ± 0.026839	0.9602	EXP 150 of 150	330.481910 ± 0.047699	0.9954	EXP 150 of 150
15D04169	3.2 %	1.4659220 ± 0.0030212	0.9116	EXP 150 of 150	1.3448405 ± 0.0323056	0.0749	EXP 150 of 150	0.7091105 ± 0.0269678	0.0880	EXP 150 of 150	32.809432 ± 0.028495	0.9811	EXP 150 of 150	469.258768 ± 0.050359	0.9986	EXP 150 of 150
15D04170	3.4 %	1.2180760 ± 0.0025858	0.9136	EXP 150 of 150	1.3285612 ± 0.0275492	0.0375	EXP 149 of 150	0.6264316 ± 0.0296921	0.0345	EXP 149 of 150	32.978570 ± 0.026091	0.9851	EXP 150 of 150	397.277041 ± 0.052543	0.9974	EXP 150 of 150
15D04172	3.6 %	1.2513267 ± 0.0023539	0.9222	EXP 150 of 150	1.6772625 ± 0.0295671	0.0755	EXP 150 of 150	0.7647131 ± 0.0262354	0.1002	EXP 150 of 150	39.714249 ± 0.032360	0.9843	EXP 150 of 150	412.889679 ± 0.052494	0.9979	EXP 150 of 150
15D04173	3.9 %	0.9012362 ± 0.0024068	0.8453	EXP 149 of 150	1.4968575 ± 0.0287752	0.1160	EXP 150 of 150	0.5461631 ± 0.0250503	0.0208	EXP 148 of 150	34.339693 ± 0.029308	0.9829	EXP 150 of 150	301.966840 ± 0.050059	0.9933	EXP 150 of 150
15D04174	4.2 %	1.4716078 ± 0.0025181	0.9420	EXP 149 of 150	2.6067602 ± 0.0294732	0.2102	EXP 150 of 150	0.9223415 ± 0.0264212	0.0049	EXP 150 of 150	56.864568 ± 0.027473	0.9945	EXP 150 of 150	489.664785 ± 0.052561	0.9988	EXP 150 of 150
15D04176	4.5 %	1.4236937 ± 0.0025448	0.9328	EXP 150 of 150	3.2481573 ± 0.0308575	0.3244	EXP 150 of 150	1.0218306 ± 0.0272384	0.0126	EXP 150 of 150	65.053379 ± 0.030791	0.9947	EXP 150 of 150	481.790637 ± 0.050922	0.9989	EXP 150 of 150
15D04177	4.8 %	1.1534281 ± 0.0025681	0.9019	EXP 150 of 150	3.3893768 ± 0.0292719	0.3572	EXP 150 of 150	1.0014452 ± 0.0303003	0.0635	EXP 150 of 150	63.375953 ± 0.030715	0.9944	EXP 150 of 150	393.428101 ± 0.052441	0.9976	EXP 150 of 150
15D04178	5.1 %	1.1801161 ± 0.0024275	0.9141	EXP 150 of 150	3.9130794 ± 0.0324403	0.2786	EXP 150 of 150	1.0689406 ± 0.0307461	0.0455	EXP 150 of 150	69.455591 ± 0.032664	0.9948	EXP 150 of 150	402.712420 ± 0.053469	0.9977	EXP 150 of 150
15D04180	5.4 %	1.0264211 ± 0.0025507	0.8663	EXP 150 of 150	4.3484343 ± 0.0303741	0.3922	EXP 150 of 150	1.0445447 ± 0.0274504	0.0088	EXP 150 of 150	71.050723 ± 0.032888	0.9950	EXP 150 of 150	349.125414 ± 0.052584	0.9966	EXP 150 of 150
15D04181	5.8 %	0.8987854 ± 0.0021822	0.8668	EXP 150 of 150	4.7633433 ± 0.0296164	0.5141	EXP 150 of 150	1.0535119 ± 0.0267789	0.0442	EXP 150 of 150	71.644097 ± 0.029779	0.9960	EXP 150 of 150	314.973314 ± 0.045992	0.9961	EXP 150 of 150
15D04182	6.2 %	0.8375272 ± 0.0020244	0.8725	EXP 150 of 150	5.1452235 ± 0.0266867	0.5530	EXP 150 of 150	1.0610521 ± 0.0260539	0.0489	EXP 150 of 150	73.269883 ± 0.032739	0.9953	EXP 150 of 150	290.635109 ± 0.049524	0.9939	EXP 150 of 150
15D04184	6.8 %	0.6788645 ± 0.0018573	0.8292	EXP 150 of 150	6.3646984 ± 0.0317886	0.5313	EXP 150 of 150	1.1525489 ± 0.0301033	0.0256	EXP 149 of 150	80.529109 ± 0.030803	0.9966	EXP 150 of 150	242.096450 ± 0.050025	0.9870	EXP 150 of 150
15D04185	7.4 %	0.4594536 ± 0.0017839	0.6572	EXP 150 of 150	7.1806832 ± 0.0316432	0.6163	EXP 149 of 150	1.1783979 ± 0.0279543	0.0632	EXP 150 of 150	81.067553 ± 0.031270	0.9966	EXP 150 of 150	159.525636 ± 0.037529	0.5134	EXP 150 of 150
15D04186	8.3 %	0.3499526 ± 0.0013450	0.6387	EXP 150 of 150	10.1657719 ± 0.0334505	0.7590	EXP 149 of 150	1.5553691 ± 0.0275857	0.1759	EXP 150 of 150	97.038444 ± 0.033897	0.9972	EXP 150 of 150	119.436307 ± 0.039050	0.9353	EXP 150 of 150
15D04188	9.3 %	0.2550479 ± 0.0011754	0.3943	EXP 150 of 150	12.8490337 ± 0.0318299	0.8426	EXP 148 of 150	1.6956237 ± 0.0285187	0.0798	EXP 149 of 150	101.179166 ± 0.029963	0.9980	EXP 150 of 150	80.368875 ± 0.035300	0.9870	EXP 150 of 150
15D04189	10.4 %	0.2173682 ± 0.0011030	0.3598	EXP 150 of 150	11.9962611 ± 0.0336225	0.7983	EXP 150 of 150	1.5639418 ± 0.0241936	0.1620	EXP 149 of 150	80.216547 ± 0.031286	0.9965	EXP 150 of 150	61.628209 ± 0.030412	0.9936	EXP 150 of 150
15D04190	11.7 %	0.2145763 ± 0.0010514	0.3859	EXP 150 of 150	11.7346095 ± 0.0334047	0.8161	EXP 150 of 150	1.6807052 ± 0.0255410	0.1441	EXP 150 of 150	68.302835 ± 0.028282	0.9961	EXP 150 of 150	55.979413 ± 0.029641	0.9945	EXP 150 of 150
15D04192	13.5 %	0.2140417 ± 0.0010453	0.4973	EXP 150 of 150	10.7352216 ± 0.0289829	0.8213	EXP 150 of 150	1.6897938 ± 0.0258387	0.1127	EXP 150 of 150	56.993358 ± 0.028735	0.9941	EXP 150 of 150	53.997922 ± 0.031587	0.9929	EXP 150 of 150
15D04193	15.5 %	0.1786072 ± 0.0009840	0.1289	EXP 150 of 150	8.3563615 ± 0.0299735	0.7294	EXP 150 of 150	0.8962831 ± 0.0267429	0.0087	EXP 150 of 150	45.433848 ± 0.031402	0.9889	EXP 149 of 150	47.005956 ± 0.031479	0.9935	EXP 150 of 150
15D04194	17.6 %	0.1352345 ± 0.0008867	0.0291	EXP 150 of 150	5.8517477 ± 0.0282797	0.5256	EXP 150 of 150	0.5175387 ± 0.0242772	0.0000	EXP 149 of 150	34.925850 ± 0.025858	0.9870	EXP 150 of 150	36.966153 ± 0.031464	0.9947	EXP 150 of 150
15D04196	19.8 %	0.1035212 ± 0.0007294	0.0027	EXP 150 of 150	4.1562028 ± 0.0288736	0.4208	EXP 150 of 150	0.3484298 ± 0.0245368	0.0327	EXP 150 of 150	25.188569 ± 0.024005	0.9772	EXP 150 of 150	28.635217 ± 0.030722	0.9953	EXP 150 of 150
15D04197	22.1 %	0.0817691 ± 0.0007058	0.0012	EXP 150 of 150	2.9857829 ± 0.0294308	0.1889	EXP 150 of 150	0.1337644 ± 0.0272780	0.0005	EXP 150 of 150	14.757518 ± 0.024655	0.9321	EXP 150 of 150	21.376297 ± 0.031674	0.9956	EXP 150 of 150
15D04198	24.5 %	0.0738661 ± 0.0006527	0.1027	EXP 150 of 150	3.3373216 ± 0.0307555	0.3368	EXP 150 of 150	0.0797381 ± 0.0260006	0.0107	EXP 149 of 150	10.248778 ± 0.026409	0.8298	EXP 150 of 150	17.055690 ± 0.029234	0.9964	EXP 150 of 150

Project Info		Analyst	Irradiation	X-pos	Y-pos	Z/H-pos	Project	Experiment	Nmb
15D04156	1.8 %	Kevin Konrad	14-OSU-04	0.00	0.00	26.28	Lau Basin\Mullions (13-INT-09)	15D04155	01
15D04157	1.9 %	Kevin Konrad	14-OSU-04	0.00	0.00	26.28	Lau Basin\Mullions (13-INT-09)	15D04155	01
15D04158	2.0 %	Kevin Konrad	14-OSU-04	0.00	0.00	26.28	Lau Basin\Mullions (13-INT-09)	15D04155	01
15D04160	2.1 %	Kevin Konrad	14-OSU-04	0.00	0.00	26.28	Lau Basin\Mullions (13-INT-09)	15D04155	01
15D04161	2.2 %	Kevin Konrad	14-OSU-04	0.00	0.00	26.28	Lau Basin\Mullions (13-INT-09)	15D04155	01
15D04162	2.3 %	Kevin Konrad	14-OSU-04	0.00	0.00	26.28	Lau Basin\Mullions (13-INT-09)	15D04155	01
15D04164	2.4 %	Kevin Konrad	14-OSU-04	0.00	0.00	26.28	Lau Basin\Mullions (13-INT-09)	15D04155	01
15D04165	2.6 %	Kevin Konrad	14-OSU-04	0.00	0.00	26.28	Lau Basin\Mullions (13-INT-09)	15D04155	01
15D04166	2.8 %	Kevin Konrad	14-OSU-04	0.00	0.00	26.28	Lau Basin\Mullions (13-INT-09)	15D04155	01
15D04168	3.0 %	Kevin Konrad	14-OSU-04	0.00	0.00	26.28	Lau Basin\Mullions (13-INT-09)	15D04155	01
15D04169	3.2 %	Kevin Konrad	14-OSU-04	0.00	0.00	26.28	Lau Basin\Mullions (13-INT-09)	15D04155	01
15D04170	3.4 %	Kevin Konrad	14-OSU-04	0.00	0.00	26.28	Lau Basin\Mullions (13-INT-09)	15D04155	01
15D04172	3.6 %	Kevin Konrad	14-OSU-04	0.00	0.00	26.28	Lau Basin\Mullions (13-INT-09)	15D04155	01
15D04173	3.9 %	Kevin Konrad	14-OSU-04	0.00	0.00	26.28	Lau Basin\Mullions (13-INT-09)	15D04155	01
15D04174	4.2 %	Kevin Konrad	14-OSU-04	0.00	0.00	26.28	Lau Basin\Mullions (13-INT-09)	15D04155	01
15D04176	4.5 %	Kevin Konrad	14-OSU-04	0.00	0.00	26.28	Lau Basin\Mullions (13-INT-09)	15D04155	01
15D04177	4.8 %	Kevin Konrad	14-OSU-04	0.00	0.00	26.28	Lau Basin\Mullions (13-INT-09)	15D04155	01
15D04178	5.1 %	Kevin Konrad	14-OSU-04	0.00	0.00	26.28	Lau Basin\Mullions (13-INT-09)	15D04155	01
15D04180	5.4 %	Kevin Konrad	14-OSU-04	0.00	0.00	26.28	Lau Basin\Mullions (13-INT-09)	15D04155	01
15D04181	5.8 %	Kevin Konrad	14-OSU-04	0.00	0.00	26.28	Lau Basin\Mullions (13-INT-09)	15D04155	01
15D04182	6.2 %	Kevin Konrad	14-OSU-04	0.00	0.00	26.28	Lau Basin\Mullions (13-INT-09)	15D04155	01
15D04184	6.8 %	Kevin Konrad	14-OSU-04	0.00	0.00	26.28	Lau Basin\Mullions (13-INT-09)	15D04155	01
15D04185	7.4 %	Kevin Konrad	14-OSU-04	0.00	0.00	26.28	Lau Basin\Mullions (13-INT-09)	15D04155	01
15D04186	8.3 %	Kevin Konrad	14-OSU-04	0.00	0.00	26.28	Lau Basin\Mullions (13-INT-09)	15D04155	01
15D04188	9.3 %	Kevin Konrad	14-OSU-04	0.00	0.00	26.28	Lau Basin\Mullions (13-INT-09)	15D04155	01
15D04189	10.4 %	Kevin Konrad	14-OSU-04	0.00	0.00	26.28	Lau Basin\Mullions (13-INT-09)	15D04155	01
15D04190	11.7 %	Kevin Konrad	14-OSU-04	0.00	0.00	26.28	Lau Basin\Mullions (13-INT-09)	15D04155	01
15D04192	13.5 %	Kevin Konrad	14-OSU-04	0.00	0.00	26.28	Lau Basin\Mullions (13-INT-09)	15D04155	01
15D04193	15.5 %	Kevin Konrad	14-OSU-04	0.00	0.00	26.28	Lau Basin\Mullions (13-INT-09)	15D04155	01
15D04194	17.6 %	Kevin Konrad	14-OSU-04	0.00	0.00	26.28	Lau Basin\Mullions (13-INT-09)	15D04155	01
15D04196	19.8 %	Kevin Konrad	14-OSU-04	0.00	0.00	26.28	Lau Basin\Mullions (13-INT-09)	15D04155	01
15D04197	22.1 %	Kevin Konrad	14-OSU-04	0.00	0.00	26.28	Lau Basin\Mullions (13-INT-09)	15D04155	01
15D04198	24.5 %	Kevin Konrad	14-OSU-04	0.00	0.00	26.28	Lau Basin\Mullions (13-INT-09)	15D04155	01

Sample Parameters		Sample	Material	Location	Standard Name	Standard (in Ma)	%1σ	Standard Reference	Standard 40Ar/39Ar	%1σ	J	%1σ	Air 40Ar/36Ar	%1σ	MDF (lin)	%1σ	Volume Ratio	Sensitivity (mol/volt)	Day	Month	Year	Hour	Min	Resist
15D04156	1.8 %	RR1310-D44-12	Groundmass	Lau Basin	FCT-NM (4C12-14)	28.201	0.082	Kuiper et al (2008)	9.324	0.129	0.00168569	0.129	303.693	0.177	0.9932468	0.073	1	4.8E-14	8	FEB	2015	8	58	1
15D04157	1.9 %	RR1310-D44-12	Groundmass	Lau Basin	FCT-NM (4C12-14)	28.201	0.082	Kuiper et al (2008)	9.324	0.129	0.00168569	0.129	303.693	0.177	0.9932468	0.073	1	4.8E-14	8	FEB	2015	9	12	1
15D04158	2.0 %	RR1310-D44-12	Groundmass	Lau Basin	FCT-NM (4C12-14)	28.201	0.082	Kuiper et al (2008)	9.324	0.129	0.00168569	0.129	303.693	0.177	0.9932468	0.073	1	4.8E-14	8	FEB	2015	9	27	1
15D04160	2.1 %	RR1310-D44-12	Groundmass	Lau Basin	FCT-NM (4C12-14)	28.201	0.082	Kuiper et al (2008)	9.324	0.129	0.00168569	0.129	303.693	0.177	0.9932468	0.073	1	4.8E-14	8	FEB	2015	9	54	1
15D04161	2.2 %	RR1310-D44-12	Groundmass	Lau Basin	FCT-NM (4C12-14)	28.201	0.082	Kuiper et al (2008)	9.324	0.129	0.00168569	0.129	303.693	0.177	0.9932468	0.073	1	4.8E-14	8	FEB	2015	10	8	1
15D04162	2.3 %	RR1310-D44-12	Groundmass	Lau Basin	FCT-NM (4C12-14)	28.201	0.082	Kuiper et al (2008)	9.324	0.129	0.00168569	0.129	303.693	0.177	0.9932468	0.073	1	4.8E-14	8	FEB	2015	10	22	1
15D04164	2.4 %	RR1310-D44-12	Groundmass	Lau Basin	FCT-NM (4C12-14)	28.201	0.082	Kuiper et al (2008)	9.324	0.129	0.00168569	0.129	303.693	0.177	0.9932468	0.073	1	4.8E-14	8	FEB	2015	10	48	1
15D04165	2.6 %	RR1310-D44-12	Groundmass	Lau Basin	FCT-NM (4C12-14)	28.201	0.082	Kuiper et al (2008)	9.324	0.129	0.00168569	0.129	303.693	0.177	0.9932468	0.073	1	4.8E-14	8	FEB	2015	11	2	1
15D04166	2.8 %	RR1310-D44-12	Groundmass	Lau Basin	FCT-NM (4C12-14)	28.201	0.082	Kuiper et al (2008)	9.324	0.129	0.00168569	0.129	303.693	0.177	0.9932468	0.073	1	4.8E-14	8	FEB	2015	11	15	1
15D04168	3.0 %	RR1310-D44-12	Groundmass	Lau Basin	FCT-NM (4C12-14)	28.201	0.082	Kuiper et al (2008)	9.324	0.129	0.00168569	0.129	303.693	0.177	0.9932468	0.073	1	4.8E-14	8	FEB	2015	11	41	1
15D04169	3.2 %	RR1310-D44-12	Groundmass	Lau Basin	FCT-NM (4C12-14)	28.201	0.082	Kuiper et al (2008)	9.324	0.129	0.00168569	0.129	303.693	0.177	0.9932468	0.073	1	4.8E-14	8	FEB	2015	11	54	1
15D04170	3.4 %	RR1310-D44-12	Groundmass	Lau Basin	FCT-NM (4C12-14)	28.201	0.082	Kuiper et al (2008)	9.324	0.129	0.00168569	0.129	303.693	0.177	0.9932468	0.073	1	4.8E-14	8	FEB	2015	12	7	1
15D04172	3.6 %	RR1310-D44-12	Groundmass	Lau Basin	FCT-NM (4C12-14)	28.201	0.082	Kuiper et al (2008)	9.324	0.129	0.00168569	0.129	303.693	0.177	0.9932468	0.073	1	4.8E-14	8	FEB	2015	12	33	1
15D04173	3.9 %	RR1310-D44-12	Groundmass	Lau Basin	FCT-NM (4C12-14)	28.201	0.082	Kuiper et al (2008)	9.324	0.129	0.00168569	0.129	303.693	0.177	0.9932468	0.073	1	4.8E-14	8	FEB	2015	12	45	1
15D04174	4.2 %	RR1310-D44-12	Groundmass	Lau Basin	FCT-NM (4C12-14)	28.201	0.082	Kuiper et al (2008)	9.324	0.129	0.00168569	0.129	303.693	0.177	0.9932468	0.073	1	4.8E-14	8	FEB	2015	12	58	1
15D04176	4.5 %	RR1310-D44-12	Groundmass	Lau Basin	FCT-NM (4C12-14)	28.201	0.082	Kuiper et al (2008)	9.324	0.129	0.00168569	0.129	303.693	0.177	0.9932468	0.073	1	4.8E-14	8	FEB	2015	13	23	1
15D04177	4.8 %	RR1310-D44-12	Groundmass	Lau Basin	FCT-NM (4C12-14)	28.201	0.082	Kuiper et al (2008)	9.324	0.129	0.00168569	0.129	303.693	0.177	0.9932468	0.073	1	4.8E-14	8	FEB	2015	13	35	1
15D04178	5.1 %	RR1310-D44-12	Groundmass	Lau Basin	FCT-NM (4C12-14)	28.201	0.082	Kuiper et al (2008)	9.324	0.129	0.00168569	0.129	303.693	0.177	0.9932468	0.073	1	4.8E-14	8	FEB	2015	13	48	1
15D04180	5.4 %	RR1310-D44-12	Groundmass	Lau Basin	FCT-NM (4C12-14)	28.201	0.082	Kuiper et al (2008)	9.324	0.129	0.00168569	0.129	303.693	0.177	0.9932468	0.073	1	4.8E-14	8	FEB	2015	14	12	1
15D04181	5.8 %	RR1310-D44-12	Groundmass	Lau Basin	FCT-NM (4C12-14)	28.201	0.082	Kuiper et al (2008)	9.324	0.129	0.00168569	0.129	303.693	0.177	0.9932468	0.073	1	4.8E-14	8	FEB	2015	14	25	1
15D04182	6.2 %	RR1310-D44-12	Groundmass	Lau Basin	FCT-NM (4C12-14)	28.201	0.082	Kuiper et al (2008)	9.324	0.129	0.00168569	0.129	303.693	0.177	0.9932468	0.073	1	4.8E-14	8	FEB	2015	14	37	1
15D04184	6.8 %	RR1310-D44-12	Groundmass	Lau Basin	FCT-NM (4C12-14)	28.201	0.082	Kuiper et al (2008)	9.324	0.129	0.00168569	0.129	303.693	0.177	0.9932468	0.073	1	4.8E-14	8	FEB	2015	15	2	1
15D04185	7.4 %	RR1310-D44-12	Groundmass	Lau Basin	FCT-NM (4C12-14)	28.201	0.082	Kuiper et al (2008)	9.324	0.129	0.00168569	0.129	303.693	0.177	0.9932468	0.073	1	4.8E-14	8	FEB	2015	15	15	1
15D04186	8.3 %	RR1310-D44-12	Groundmass	Lau Basin	FCT-NM (4C12-14)	28.201	0.082	Kuiper et al (2008)	9.324	0.129	0.00168569	0.129	303.693	0.177	0.9932468	0.073	1	4.8E-14	8	FEB	2015	15	27	1
15D04188	9.3 %	RR1310-D44-12	Groundmass	Lau Basin	FCT-NM (4C12-14)	28.201	0.082	Kuiper et al (2008)	9.324	0.129	0.00168569	0.129	303.693	0.177	0.9932468	0.073	1	4.8E-14	8	FEB	2015	15	52	1
15D04189	10.4 %	RR1310-D44-12	Groundmass	Lau Basin	FCT-NM (4C12-14)	28.201	0.082	Kuiper et al (2008)	9.324	0.129	0.00168569	0.129	303.693	0.177	0.9932468	0.073	1	4.8E-14	8	FEB	2015	16	5	1
15D04190	11.7 %	RR1310-D44-12	Groundmass	Lau Basin	FCT-NM (4C12-14)	28.201	0.082	Kuiper et al (2008)	9.324	0.129	0.00168569	0.129	303.693	0.177	0.9932468	0.073	1	4.8E-14	8	FEB	2015	16	17	1
15D04192	13.5 %	RR1310-D44-12	Groundmass	Lau Basin	FCT-NM (4C12-14)	28.201	0.082	Kuiper et al (2008)	9.324	0.129	0.00168569	0.129	303.693	0.177	0.9932468	0.073	1	4.8E-14	8	FEB	2015	16	42	1
15D04193	15.5 %	RR1310-D44-12	Groundmass	Lau Basin	FCT-NM (4C12-14)	28.201	0.082	Kuiper et al (2008)	9.324	0.129	0.00168569	0.129	303.693	0.177	0.9932468	0.073	1	4.8E-14	8	FEB	2015	16	55	1
15D04194	17.6 %	RR1310-D44-12	Groundmass	Lau Basin	FCT-NM (4C12-14)	28.201	0.082	Kuiper et al (2008)	9.324	0.129	0.00168569	0.129	303.693	0.177	0.9932468	0.073	1	4.8E-14	8	FEB	2015	17	8	1
15D04196	19.8 %	RR1310-D44-12	Groundmass	Lau Basin	FCT-NM (4C12-14)	28.201	0.082	Kuiper et al (2008)	9.324	0.129	0.00168569	0.129	303.693	0.177	0.9932468	0.073	1	4.8E-14	8	FEB	2015	17	33	1
15D04197	22.1 %	RR1310-D44-12	Groundmass	Lau Basin	FCT-NM (4C12-14)	28.201	0.082	Kuiper et al (2008)	9.324	0.129	0.00168569	0.129	303.693	0.177	0.9932468	0.073	1	4.8E-14	8	FEB	2015	17	46	1
15D04198	24.5 %	RR1310-D44-12	Groundmass	Lau Basin	FCT-NM (4C12-14)	28.201	0.082	Kuiper et al (2008)	9.324	0.129	0.00168569	0.129	303.693	0.177	0.9932468	0.073	1	4.8E-14	8	FEB	2015	17	59	1

Irradiation Constants		40/36(a)	%1σ	40/36(c)	%1σ	38/36(a)	%1σ	38/36(c)	%1σ	39/37(ca)	%1σ	38/37(ca)	%1σ	36/37(ca)	%1σ	40/39(k)	%1σ	38/39(k)	%1σ	36/38(cl)	%1σ	K/Ca	%1σ	K/Cl	%1σ	Ca/Cl	%1σ
15D04156	1.8 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	1.39E-05	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
15D04157	1.9 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	1.39E-05	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
15D04158	2.0 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	1.39E-05	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
15D04160	2.1 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	1.39E-05	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
15D04161	2.2 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	1.39E-05	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
15D04162	2.3 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	1.39E-05	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
15D04164	2.4 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	1.39E-05	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
15D04165	2.6 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	1.39E-05	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
15D04166	2.8 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	1.39E-05	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
15D04168	3.0 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	1.39E-05	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
15D04169	3.2 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	1.39E-05	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
15D04170	3.4 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	1.39E-05	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
15D04172	3.6 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	1.39E-05	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
15D04173	3.9 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	1.39E-05	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
15D04174	4.2 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	1.39E-05	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
15D04176	4.5 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	1.39E-05	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
15D04177	4.8 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	1.39E-05	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
15D04178	5.1 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	1.39E-05	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
15D04180	5.4 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	1.39E-05	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
15D04181	5.8 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	1.39E-05	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
15D04182	6.2 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	1.39E-05	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
15D04184	6.8 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	1.39E-05	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
15D04185	7.4 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	1.39E-05	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
15D04186	8.3 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	1.39E-05	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
15D04188	9.3 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	1.39E-05	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
15D04189	10.4 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	1.39E-05	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
15D04190	11.7 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	1.39E-05	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
15D04192	13.5 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	1.39E-05	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
15D04193	15.5 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	1.39E-05	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
15D04194	17.6 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	1.39E-05	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
15D04196	19.8 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	1.39E-05	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
15D04197	22.1 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	1.39E-05	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0
15D04198	24.5 %	295.5	0	0.018	35	0.1869	0	1.493	3	0.000673	0	1.39E-05	0	0.000264	0	0.00101	0	0.01138	0	0	0	0.43	0	0	0	0	0

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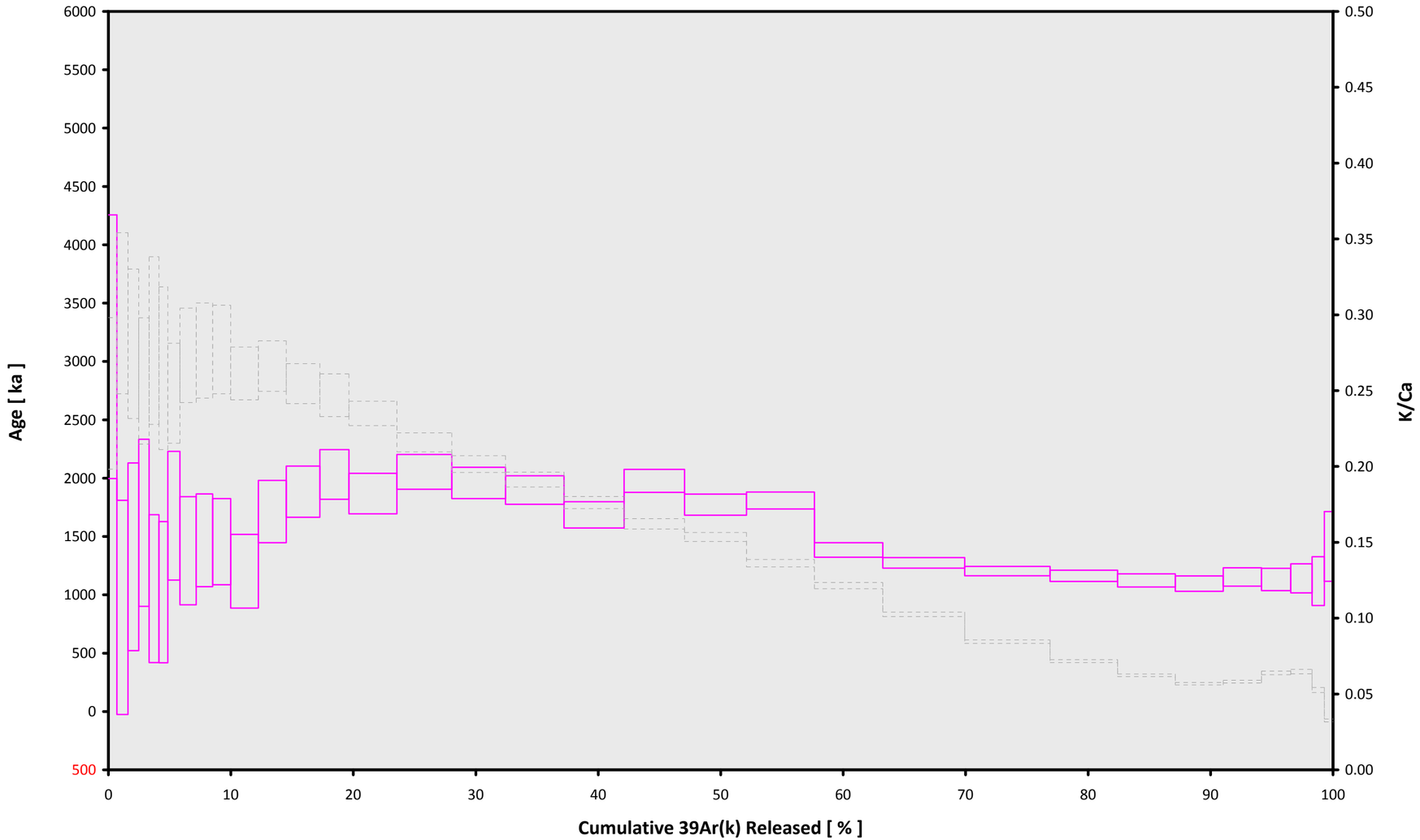
15D04155.AGE >>> RR1310-D44-12 >>> LAU BASIN | MULLIONS (13-INT-09) PROJECT



Ar-Ages in ka

TOTAL FUSION
1535.6 ± 29.6

Sample Info

Groundmass
Lau Basin
Kevin Konrad

IRR = 14-OSU-04 (4C12-14)
J = 0.00168569 ± 0.00000217

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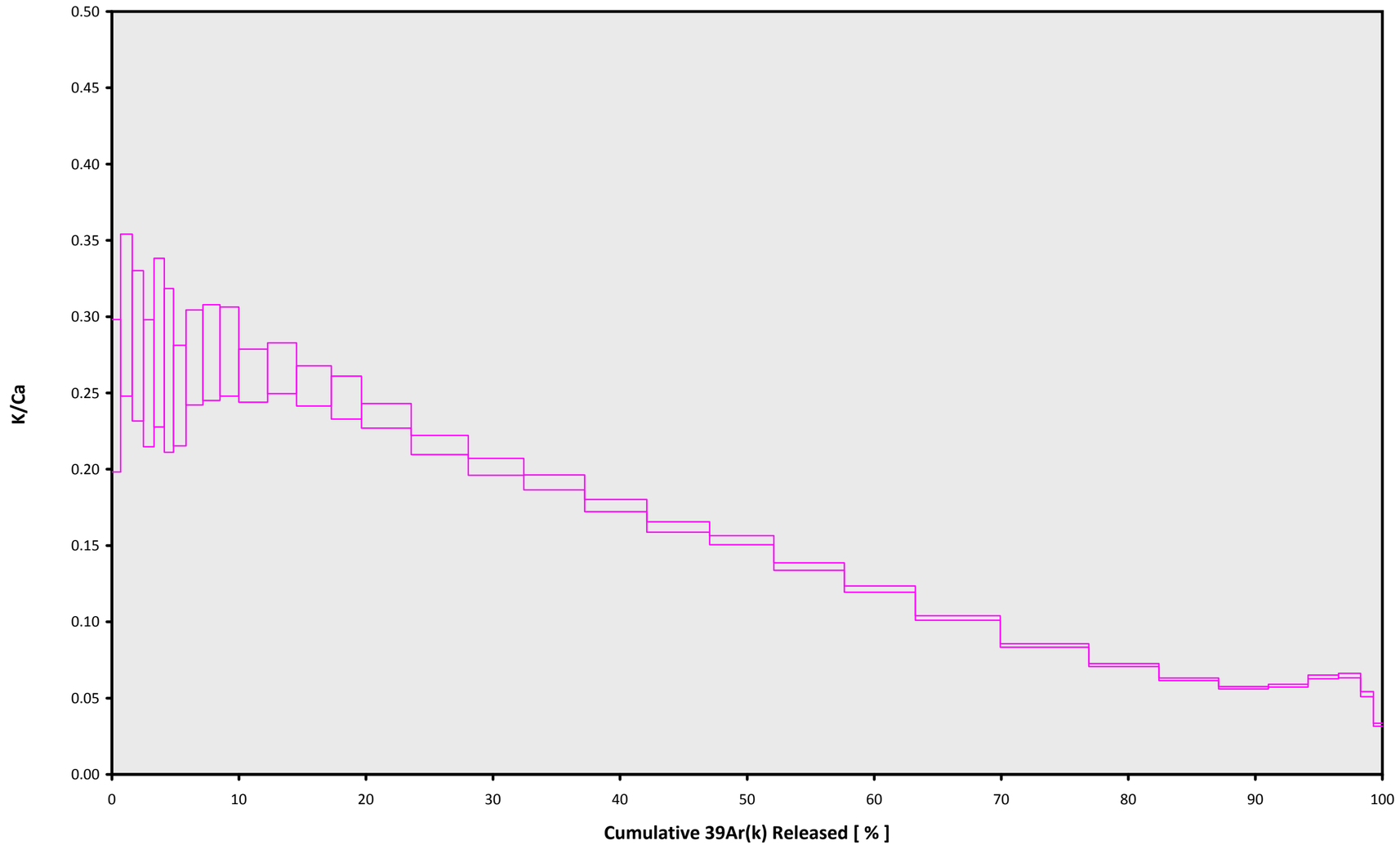

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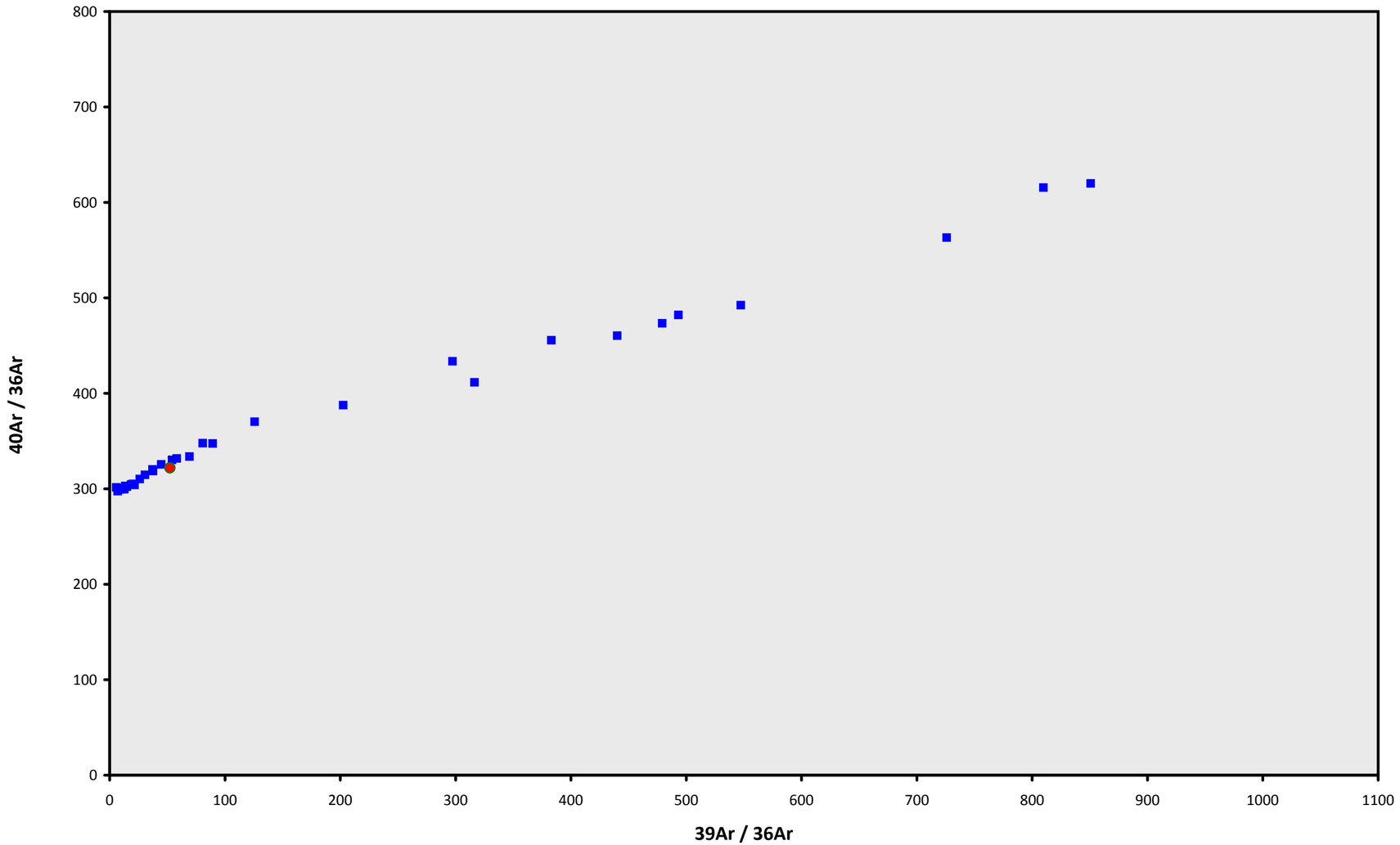

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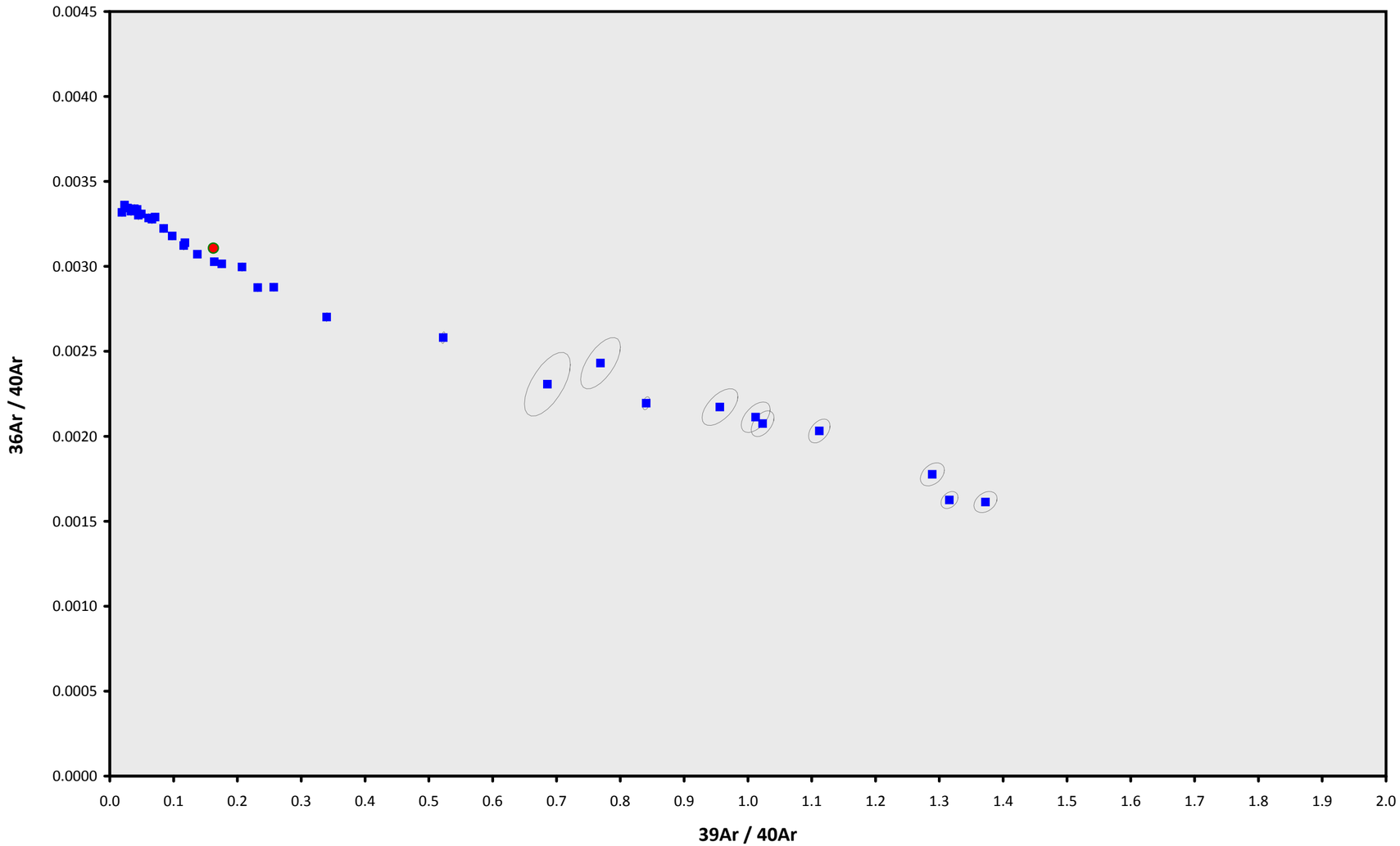

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