

Incremental Heating		36Ar(a)	37Ar(ca)	38Ar(cl)	39Ar(k)	40Ar(r)	Age $\pm 2\sigma$ (Ma)	40Ar(r) (%)
1B16724D	600 °C	0.000161	0.100290	0.000003	0.004061	0.012096	3.75 \pm 2.25	20.08
1B16725D	700 °C	0.000095	0.434488	0.000003	0.016627	0.045269	3.43 \pm 0.61	61.57
1B16726D	800 °C	0.000107	0.843065	0.000000	0.033323	0.073699	2.79 \pm 0.43	69.84
1B16727D	870 °C	0.000055	1.013612	0.000016	0.040644	0.090430	2.80 \pm 0.38	84.51
1B16728D	950 °C	0.000058	1.108910	0.000000	0.045211	0.098538	2.75 \pm 0.37	85.03
1B16729D	1020 °C	0.000143	0.588140	0.000000	0.026334	0.059076	2.83 \pm 0.50	57.97
1B16730D	1080 °C	0.000271	0.159761	0.000001	0.008418	0.020298	3.04 \pm 1.03	20.07
1B16731D	1130 °C	0.000027	0.087487	0.000003	0.006207	0.016636	3.38 \pm 1.25	67.32
1B16732D	1180 °C	0.000024	0.101999	0.000010	0.003889	0.009381	3.04 \pm 2.05	57.19
1B16733D	1230 °C	0.000011	0.107969	0.000002	0.004248	0.010108	3.00 \pm 1.86	76.28
1B16734D	1280 °C	0.000036	0.112046	0.000002	0.004221	0.012777	3.81 \pm 2.29	54.31
1B16735D	1350 °C	0.000234	0.167620	0.000005	0.005411	0.010719	2.50 \pm 1.85	13.28
1B16736D	1130 °C	0.000386	0.055808	0.000002	0.001420	0.008447	7.49 \pm 7.82	6.84
Σ		0.001607	4.881196	0.000048	0.200013	0.467477		

Information on Analysis	Results	40(r)/39(k) $\pm 2\sigma$	Age $\pm 2\sigma$ (Ma)	MSWD
Sample = PLG-C	Age Plateau	2.2891 \pm 0.1480 \pm 6.46%	2.89 \pm 0.19 \pm 6.48%	0.64
Material = plg			Full External Error \pm 0.19	2.18
Location = Furnace			Analytical Error \pm 0.19	1.0000
Analyst = Fred Jourdan	Total Fusion Age	2.3372 \pm 0.1625 \pm 6.95%	2.95 \pm 0.21 \pm 6.97%	
Project = ANTILLES-NICE			Full External Error \pm 0.21	
Mass Discrimination Law = POW			Analytical Error \pm 0.20	
Mass Discrimination Law = POW				
Irradiation = 18t2h				
J = 0.00070000 \pm 0.00000203				
FCs = 28.305 \pm 0.037 Ma				

$^{39}\text{Ar}(k)$ (%)	K/Ca $\pm 2\sigma$
2.03	0.0174 \pm 0.0025
8.31	0.0165 \pm 0.0020
16.66	0.0170 \pm 0.0020
20.32	0.0172 \pm 0.0020
22.60	0.0175 \pm 0.0020
13.17	0.0193 \pm 0.0023
4.21	0.0227 \pm 0.0029
3.10	0.0305 \pm 0.0047
1.94	0.0164 \pm 0.0025
2.12	0.0169 \pm 0.0024
2.11	0.0162 \pm 0.0023
2.71	0.0139 \pm 0.0020
0.71	0.0109 \pm 0.0024

$^{39}\text{Ar}(k)$ (%,n)	K/Ca $\pm 2\sigma$
100.00 13	0.0169 \pm 0.0017
Statistical T Ratio	
Error Magnification	
13	0.0176 \pm 0.0008

Inverse Isochron			$39(k)/40(a+r) \pm 2\sigma$	$36(a)/40(a+r) \pm 2\sigma$	r.i.
1B16724D	600 °C		0.067395 ± 0.002069	0.002677 ± 0.000400	0.1752
1B16725D	700 °C		0.226178 ± 0.005863	0.001287 ± 0.000361	0.0772
1B16726D	800 °C		0.315870 ± 0.006081	0.001010 ± 0.000359	0.0413
1B16727D	870 °C		0.379951 ± 0.006780	0.000518 ± 0.000383	0.0182
1B16728D	950 °C		0.390232 ± 0.006613	0.000501 ± 0.000383	0.0165
1B16729D	1020 °C		0.258438 ± 0.004761	0.001408 ± 0.000340	0.0591
1B16730D	1080 °C		0.083221 ± 0.001767	0.002677 ± 0.000225	0.1561
1B16731D	1130 °C		0.251195 ± 0.017049	0.001094 ± 0.000809	0.0879
1B16732D	1180 °C		0.237139 ± 0.023674	0.001433 ± 0.001259	0.1123
1B16733D	1230 °C		0.320657 ± 0.039916	0.000794 ± 0.001538	0.0629
1B16734D	1280 °C		0.179432 ± 0.012713	0.001530 ± 0.001071	0.0976
1B16735D	1350 °C		0.067058 ± 0.002922	0.002904 ± 0.000323	0.3631
1B16736D	1130 °C		0.011492 ± 0.000403	0.003120 ± 0.000237	0.2821

Results	$40(a)/36(a) \pm 2\sigma$	$40(r)/39(k) \pm 2\sigma$	Age ± 2σ (Ma)	MSWD
Inverse Isochron	309.4416 ± 7.8691 ± 2.54%	2.2394 ± 0.0844 ± 3.77%	2.82 ± 0.11 ± 3.81% Full External Error ± 0.11 Analytical Error ± 0.11	0.52
Statistics	Statistical F ratio Error Magnification Number of Data Points	1.79 1.0000 13	Convergence Number of Iterations Calculated Line	0.0001887225 3 Weighted York-2

Relative Abundances		36Ar	%1σ	37Ar	%1σ	38Ar	%1σ	39Ar	%1σ	40Ar	%1σ	Age ± 2σ (Ma)	40Ar(r) (%)	39Ar(k) (%)	K/Ca ± 2σ
1B16724D	600 °C	0.0001896	6.138	0.1002904	7.294	0.0000860	8.836	0.0041337	0.531	0.0602526	1.417	3.75 ± 2.25	20.08	2.03	0.0174 ± 0.0025
1B16725D	700 °C	0.0002171	5.062	0.4344881	5.904	0.0002364	4.981	0.0169445	0.460	0.0735258	1.184	3.43 ± 0.61	61.57	8.31	0.0165 ± 0.0020
1B16726D	800 °C	0.0003442	3.676	0.8430649	5.839	0.0004206	3.201	0.0339388	0.399	0.1055195	0.841	2.79 ± 0.43	69.84	16.66	0.0170 ± 0.0020
1B16727D	870 °C	0.0003413	3.442	1.0136116	5.773	0.0005532	1.908	0.0413842	0.373	0.1069998	0.775	2.80 ± 0.38	84.51	20.32	0.0172 ± 0.0020
1B16728D	950 °C	0.0003707	3.363	1.1089101	5.792	0.0005524	2.938	0.0460207	0.358	0.1158878	0.732	2.75 ± 0.37	85.03	22.60	0.0175 ± 0.0020
1B16729D	1020 °C	0.0003093	4.564	0.5881398	5.902	0.0003611	4.490	0.0267633	0.382	0.1019147	0.810	2.83 ± 0.50	57.97	13.17	0.0193 ± 0.0023
1B16730D	1080 °C	0.0003159	3.413	0.1597614	6.447	0.0001595	6.108	0.0085343	0.623	0.1011544	0.835	3.04 ± 1.03	20.07	4.21	0.0227 ± 0.0029
1B16731D	1130 °C	0.0000517	18.895	0.0874873	7.740	0.0000873	9.356	0.0062706	0.673	0.0247130	3.321	3.38 ± 1.25	67.32	3.10	0.0305 ± 0.0047
1B16732D	1180 °C	0.0000523	19.178	0.1019993	7.469	0.0000654	12.753	0.0039635	0.473	0.0164026	4.961	3.04 ± 2.05	57.19	1.94	0.0164 ± 0.0025
1B16733D	1230 °C	0.0000410	24.239	0.1079687	7.076	0.0000590	12.415	0.0043269	0.871	0.0132509	6.154	3.00 ± 1.86	76.28	2.12	0.0169 ± 0.0024
1B16734D	1280 °C	0.0000676	18.241	0.1120457	7.075	0.0000638	12.057	0.0043024	0.605	0.0235246	3.479	3.81 ± 2.29	54.31	2.11	0.0162 ± 0.0023
1B16735D	1350 °C	0.0002816	4.104	0.1676205	7.169	0.0001198	8.204	0.0055332	0.504	0.0806921	2.096	2.50 ± 1.85	13.28	2.71	0.0139 ± 0.0020
1B16736D	1130 °C	0.0004013	3.380	0.0558082	10.759	0.0000934	8.595	0.0014606	0.970	0.1235485	1.371	7.49 ± 7.82	6.84	0.71	0.0109 ± 0.0024
Σ		0.0029835	1.418	4.8811960	2.281	0.0028579	1.364	0.2035768	0.151	0.9473863	0.387				

Information on Analysis and Constants Used in Calculations	
Sample = PLG-C	Age Equations = Min et al. (2000)
Material = plg	Negative Intensities = Allowed
Location = Furnace	Decay Constant 40K = 5.549 ± 0.009 E-10 1/a
Analyst = Fred Jourdan	Decay Constant 39Ar = 2.940 ± 0.029 E-07 1/h
Project = ANTILLES-NICE	Decay Constant 37Ar = 8.230 ± 0.082 E-04 1/h
Mass Discrimination Law = POW	Decay Constant 36Cl = 2.303 ± 0.046 E-06 1/a
Irradiation = 18t2h	Production Ratio 36/38 in Cl = 263.0 ± 13.2
J = 0.00070000 ± 0.00000203	Decay Constant 40K(εC,β ⁺) = 0.576 ± 0.002 E-10 1/a
FCs = 28.305 ± 0.037 Ma	Decay Constant 40K(β ⁻) = 4.974 ± 0.009 E-10 1/a
IGSN = Undefined	Abundance Ratio 40K/K = 1.1700 ± 0.0100 E-04
Preferred Age = Undefined	Atomic Weight K = 39.0983 ± 0.0001 g
Classification = Undefined	
Experiment Type = Undefined	
Extraction Method = Undefined	
Heating = 600 sec	
Isolation = 12.00 min	
Instrument = MAP215-50	
Lithology = Undefined	
Lat-Lon = Undefined - Undefined	

Results	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (%),n	K/Ca ± 2σ
Age Plateau	2.2891 ± 0.1480 ± 6.46%	2.89 ± 0.19 ± 6.48%	0.64	100.00 13	0.0169 ± 0.0017
	Full External Error ± 0.19		2.18	Statistical T Ratio	
	Analytical Error ± 0.19		1.0000	Error Magnification	
Total Fusion Age	2.3372 ± 0.1625 ± 6.95%	2.95 ± 0.21 ± 6.97%		13	0.0176 ± 0.0008
	Full External Error ± 0.21				
	Analytical Error ± 0.20				
Normal Isochron	2.2083 ± 0.1662 ± 7.53%	2.78 ± 0.21 ± 7.54%	0.39	100.00 13	
	Full External Error ± 0.21		1.79	Statistical F ratio	
	Analytical Error ± 0.21		1.0000	Error Magnification	
Inverse Isochron	2.2394 ± 0.0844 ± 3.77%	2.82 ± 0.11 ± 3.81%	0.52	100.00 13	
	Full External Error ± 0.11		1.79	Statistical F ratio	
	Analytical Error ± 0.11		1.0000	Error Magnification	

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Procedure Blanks		36Ar	1 σ	37Ar	1 σ	38Ar	1 σ	39Ar	1 σ	40Ar
1B16724D	600 °C	0.000051	0.000009	0.000336	0.000012	0.000015	0.000005	0.000018	0.000005	0.011957
1B16725D	700 °C	0.000057	0.000009	0.000336	0.000012	0.000015	0.000005	0.000018	0.000005	0.012492
1B16726D	800 °C	0.000062	0.000009	0.000336	0.000012	0.000015	0.000005	0.000018	0.000005	0.013166
1B16727D	870 °C	0.000066	0.000009	0.000336	0.000012	0.000015	0.000005	0.000018	0.000005	0.013833
1B16728D	950 °C	0.000070	0.000009	0.000336	0.000012	0.000016	0.000005	0.000018	0.000005	0.014949
1B16729D	1020 °C	0.000075	0.000009	0.000336	0.000012	0.000017	0.000005	0.000018	0.000005	0.016388
1B16730D	1080 °C	0.000081	0.000009	0.000336	0.000012	0.000019	0.000005	0.000018	0.000005	0.018097
1B16731D	1130 °C	0.000087	0.000009	0.000336	0.000012	0.000020	0.000005	0.000018	0.000005	0.019947
1B16732D	1180 °C	0.000094	0.000009	0.000336	0.000012	0.000022	0.000005	0.000018	0.000005	0.022266
1B16733D	1230 °C	0.000102	0.000009	0.000336	0.000012	0.000025	0.000005	0.000018	0.000005	0.025139
1B16734D	1280 °C	0.000113	0.000009	0.000336	0.000012	0.000027	0.000005	0.000018	0.000005	0.028657
1B16735D	1350 °C	0.000143	0.000010	0.000338	0.000014	0.000036	0.000005	0.000045	0.000007	0.043105
1B16736D	1130 °C	0.000089	0.000010	0.000338	0.000014	0.000021	0.000005	0.000019	0.000007	0.019332

1σ

0.000811
0.000811
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0.000811
0.000811
0.000811
0.000811
0.000811
0.001686
0.001686

Sample Parameters		Sample	Material	Location
1B16724D	600 °C	P1g-C	plg	Furnace
1B16725D	700 °C	P1g-C	plg	Furnace
1B16726D	800 °C	P1g-C	plg	Furnace
1B16727D	870 °C	P1g-C	plg	Furnace
1B16728D	950 °C	P1g-C	plg	Furnace
1B16729D	1020 °C	P1g-C	plg	Furnace
1B16730D	1080 °C	P1g-C	plg	Furnace
1B16731D	1130 °C	P1g-C	plg	Furnace
1B16732D	1180 °C	P1g-C	plg	Furnace
1B16733D	1230 °C	P1g-C	plg	Furnace
1B16734D	1280 °C	P1g-C	plg	Furnace
1B16735D	1350 °C	P1g-C	plg	Furnace
1B16736D	1130 °C	P1g-C	plg	Furnace

Analyst	Temp
Fred Jourdan	600
Fred Jourdan	700
Fred Jourdan	800
Fred Jourdan	870
Fred Jourdan	950
Fred Jourdan	1020
Fred Jourdan	1080
Fred Jourdan	1130
Fred Jourdan	1180
Fred Jourdan	1230
Fred Jourdan	1280
Fred Jourdan	1350
Fred Jourdan	1130

Standard (in Ma)	%1 σ	J	%1 σ	MDF	%1 σ	Volume Ratio	Sensitivity (mol/volt)
28.305	0.13	0.0007	0.29	1.006575	0.32	1	4.050E-14
28.305	0.13	0.0007	0.29	1.006575	0.32	1	4.050E-14
28.305	0.13	0.0007	0.29	1.006575	0.32	1	4.050E-14
28.305	0.13	0.0007	0.29	1.006575	0.32	1	4.050E-14
28.305	0.13	0.0007	0.29	1.006575	0.32	1	4.050E-14
28.305	0.13	0.0007	0.29	1.006575	0.32	1	4.050E-14
28.305	0.13	0.0007	0.29	1.006575	0.32	1	4.050E-14
28.305	0.13	0.0007	0.29	1.006575	0.32	1	4.050E-14
28.305	0.13	0.0007	0.29	1.006575	0.32	1	4.050E-14
28.305	0.13	0.0007	0.29	1.006575	0.32	1	4.050E-14
28.305	0.13	0.0007	0.29	1.006575	0.32	1	4.050E-14
28.305	0.13	0.0007	0.29	1.006575	0.32	1	4.050E-14
28.305	0.13	0.0007	0.29	1.006575	0.32	1	4.050E-14
28.305	0.13	0.0007	0.29	1.006575	0.32	1	4.050E-14
28.305	0.13	0.0007	0.29	1.006575	0.32	1	4.050E-14

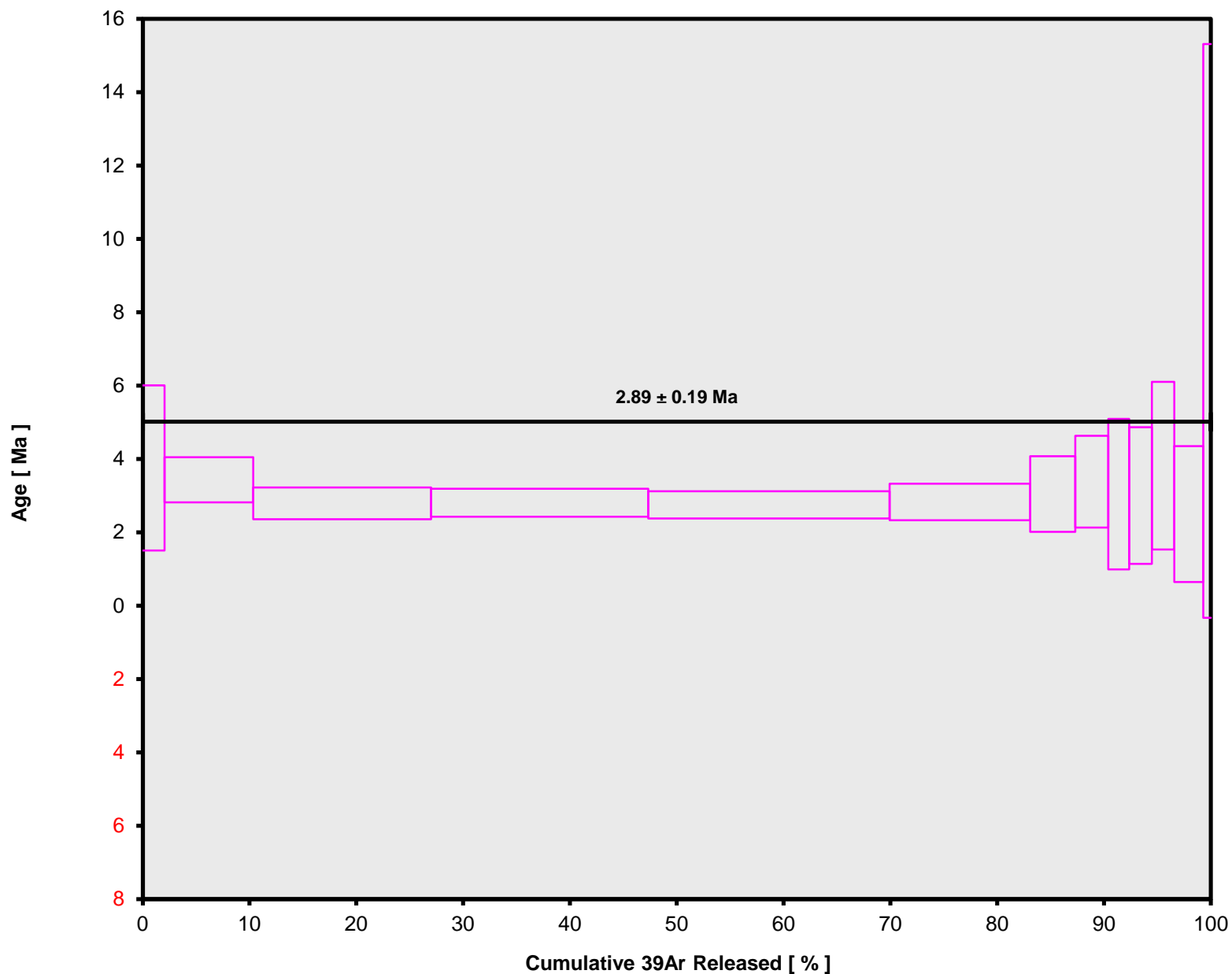
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Day	Month	Year	Hour	Min	Resist	Irradiation	Project	Experiment	Nmb	Standard Name
14	JUN	2011	22	02	001	I8t2h	Antilles-Nice	Verati-plgC	01	FCs
14	JUN	2011	22	56	001	I8t2h	Antilles-Nice	Verati-plgC	01	FCs
14	JUN	2011	23	50	001	I8t2h	Antilles-Nice	Verati-plgC	01	FCs
15	JUN	2011	00	43	001	I8t2h	Antilles-Nice	Verati-plgC	01	FCs
15	JUN	2011	01	36	001	I8t2h	Antilles-Nice	Verati-plgC	01	FCs
15	JUN	2011	02	29	001	I8t2h	Antilles-Nice	Verati-plgC	01	FCs
15	JUN	2011	03	22	001	I8t2h	Antilles-Nice	Verati-plgC	01	FCs
15	JUN	2011	04	15	001	I8t2h	Antilles-Nice	Verati-plgC	01	FCs
15	JUN	2011	04	15	001	I8t2h	Antilles-Nice	Verati-plgC	01	FCs
15	JUN	2011	04	15	001	I8t2h	Antilles-Nice	Verati-plgC	01	FCs
15	JUN	2011	04	15	001	I8t2h	Antilles-Nice	Verati-plgC	01	FCs
15	JUN	2011	04	15	001	I8t2h	Antilles-Nice	Verati-plgC	01	FCs

Irradiation Constants		40/36(a)		40/36(c)		38/36(a)		38/36(c)	
			%1 σ		%1 σ		%1 σ		%1 σ
1B16724D	600 °C	298.56	0.1	0.018	35	0.1869	0.1	1.493	3
1B16725D	700 °C	298.56	0.1	0.018	35	0.1869	0.1	1.493	3
1B16726D	800 °C	298.56	0.1	0.018	35	0.1869	0.1	1.493	3
1B16727D	870 °C	298.56	0.1	0.018	35	0.1869	0.1	1.493	3
1B16728D	950 °C	298.56	0.1	0.018	35	0.1869	0.1	1.493	3
1B16729D	1020 °C	298.56	0.1	0.018	35	0.1869	0.1	1.493	3
1B16730D	1080 °C	298.56	0.1	0.018	35	0.1869	0.1	1.493	3
1B16731D	1130 °C	298.56	0.1	0.018	35	0.1869	0.1	1.493	3
1B16732D	1180 °C	298.56	0.1	0.018	35	0.1869	0.1	1.493	3
1B16733D	1230 °C	298.56	0.1	0.018	35	0.1869	0.1	1.493	3
1B16734D	1280 °C	298.56	0.1	0.018	35	0.1869	0.1	1.493	3
1B16735D	1350 °C	298.56	0.1	0.018	35	0.1869	0.1	1.493	3
1B16736D	1130 °C	298.56	0.1	0.018	35	0.1869	0.1	1.493	3

K/Ca	%1 σ	K/Cl	%1 σ	Ca/Cl	%1 σ
0.43	0	0	0	0	0
0.43	0	0	0	0	0
0.43	0	0	0	0	0
0.43	0	0	0	0	0
0.43	0	0	0	0	0
0.43	0	0	0	0	0
0.43	0	0	0	0	0
0.43	0	0	0	0	0
0.43	0	0	0	0	0
0.43	0	0	0	0	0
0.43	0	0	0	0	0
0.43	0	0	0	0	0
0.43	0	0	0	0	0
0.43	0	0	0	0	0
0.43	0	0	0	0	0

VERATI-PLGC.AGE >>> PLG-C >>> ANTILLES-NICE PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
 2.89 ± 0.19
TOTAL FUSION
 2.95 ± 0.21
NORMAL ISOCHRON
 2.78 ± 0.21
INVERSE ISOCHRON
 2.82 ± 0.11

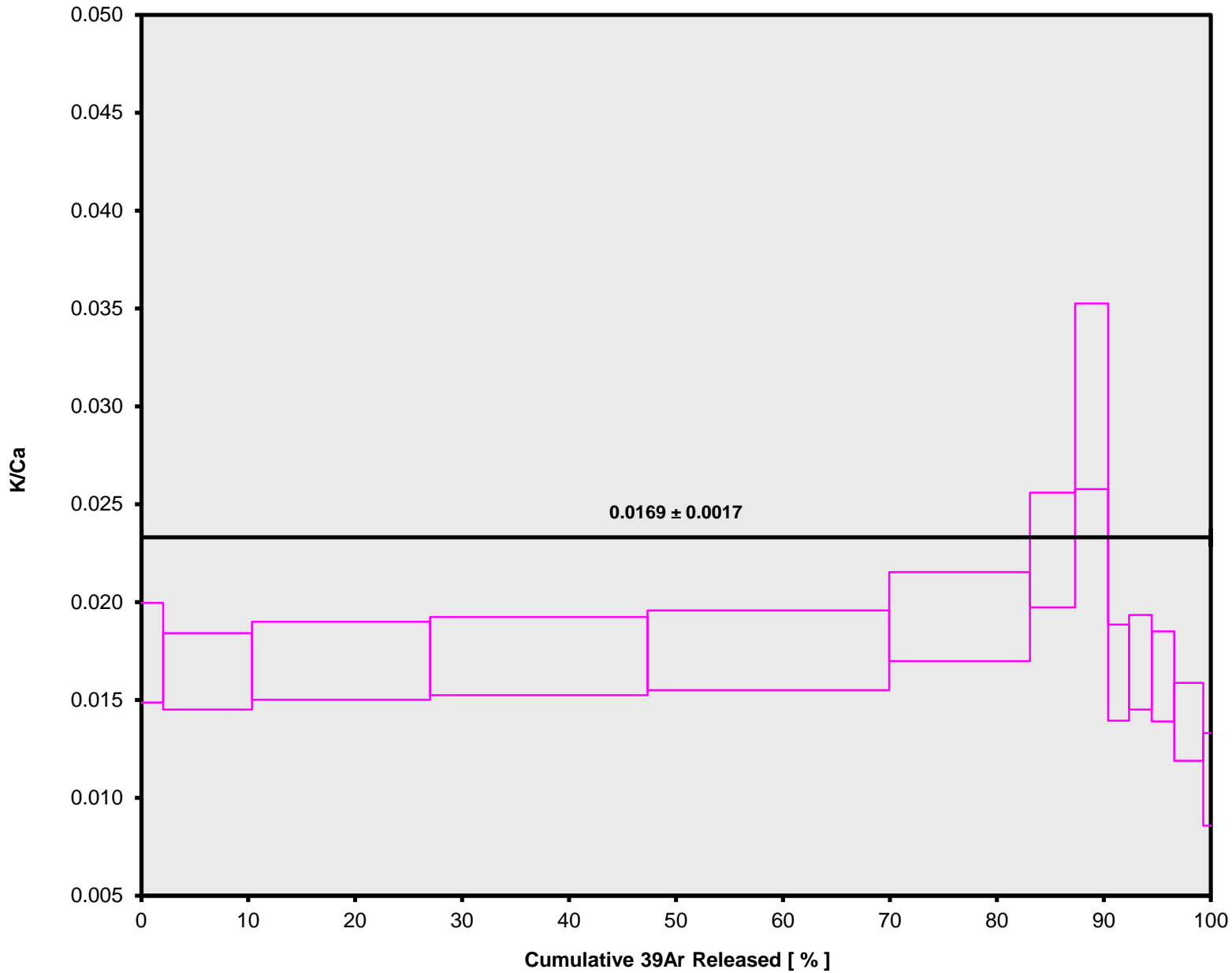
MSWD
0.64

Sample Info

plg
Furnace
Fred Jourdan

IRR = 18t2h
J = $0.00070000 \pm 0.00000203$

VERATI-PLGC.AGE >>> PLG-C >>> ANTILLES-NICE PROJECT



Ar-Ages in Ma

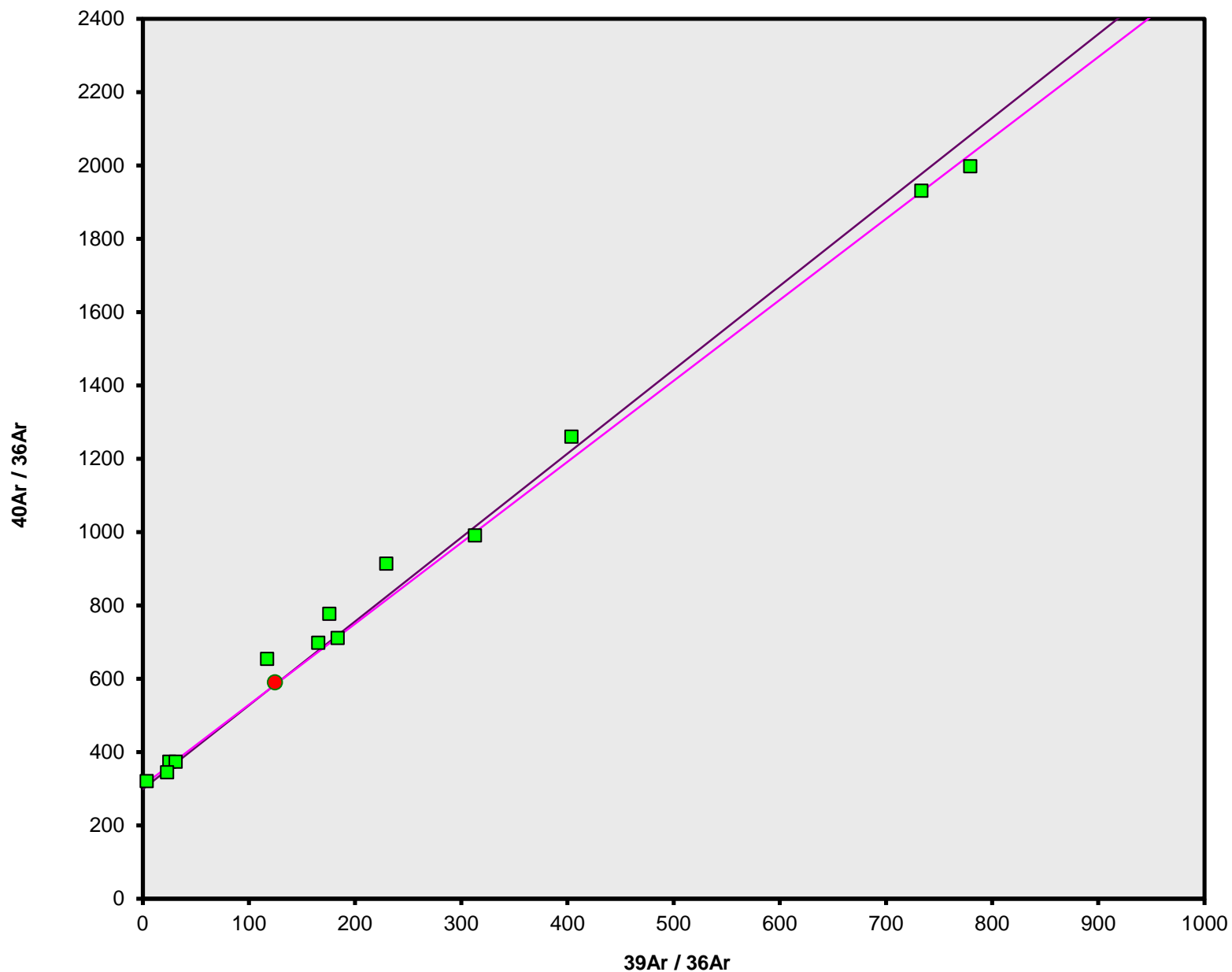
WEIGHTED PLATEAU
2.89 ± 0.19
TOTAL FUSION
2.95 ± 0.21
NORMAL ISOCHRON
2.78 ± 0.21
INVERSE ISOCHRON
2.82 ± 0.11

Sample Info

plg
Furnace
Fred Jourdan

IRR = 18t2h
J = 0.00070000 ±
0.00000203

VERATI-PLGC.AGE >>> PLG-C >>> ANTILLES-NICE PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU

2.89 ± 0.19

TOTAL FUSION

2.95 ± 0.21

NORMAL ISOCHRON

2.78 ± 0.21

INVERSE ISOCHRON

2.82 ± 0.11

MSWD

0.39

40AR/36AR

INTERCEPT

308.3 ± 15.6

Sample Info

plg

Furnace

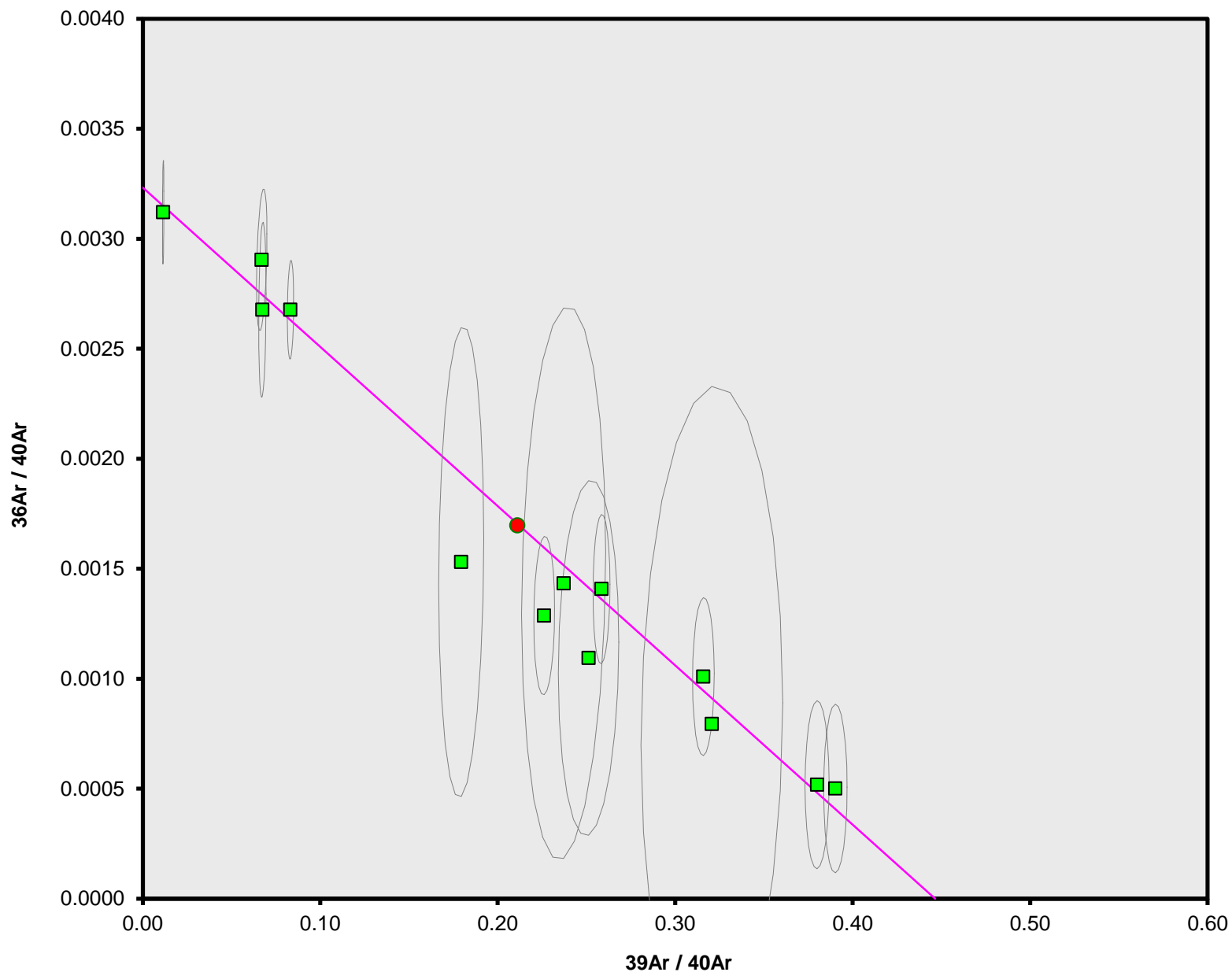
Fred Jourdan

IRR = 18t2h

J = $0.00070000 \pm$

0.00000203

VERATI-PLGC.AGE >>> PLG-C >>> ANTILLES-NICE PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU

2.89 ± 0.19

TOTAL FUSION

2.95 ± 0.21

NORMAL ISOCHRON

2.78 ± 0.21

INVERSE ISOCHRON

2.82 ± 0.11

MSWD

0.52

40AR/36AR

INTERCEPT

309.4 ± 7.9

Sample Info

plg

Furnace

Fred Jourdan

IRR = 18t2h

$J = 0.00070000 \pm$

0.00000203