

17/3/08

K-feld.

O beam

* = Rejection during line-fit

5 scans

Ct times	204	Bkg	206	207	208
	100	10	10	10	10

08-01

← cps →

←

Ratios

→

Spot Time 204 208 6/4 7/4 8/4 7/6 8/6 Comments

BHKF.wht 1-3a 1-3a	09:49	20K	3740K	16.283 ±.080	15.663 ±.082	36.521 ±.188	.916192 .916192 ±.00334	2.2429 ±.00746	6xR + 1xF
"	1-3b 10:03	20K	710K	15.697 ±.087	15.042 ±.084	34.960 ±.241	.95832 ±.00753	2.2272 ±.01967	6xR + 2xF
"	1-3c 10:17	22K	880K	17.651* ±.196	<u>15.507</u> * ±.008	40.456* ±.498	.87856* ±.00976	2.2920 ±.0380	lots of rejections 13xR + 5F
"	1-4a 10:38	18K	670K	16.319 ±.118	15.652 ±.098	36.543 ±.224	.95912 ±.00606	2.2394 ±.0139	6xR + 2xF
"	1-4b 10:52	18K	650K	16.624* ±.072	<u>15.733</u> * ±.025	<u>36.600</u> * ±.019	0.94638 .94638 ±.00430	<u>2.2016</u> ±.00948	13xR + 2xF
"	1-4c 11:06	17K	630K	<u>16.449</u> * ±.037	15.907* ±.037	37.057* ±.062	0.96703 0.96703 ±.00300	<u>2.2528</u> ±.00600	9xR + 2xF
BH Galena				16.004	15.390	35.651	.96163	2.2276	Reference
"	1-5a 11:42	19K	690K	<u>16.369</u> * ±.050	15.661 ±.092	36.646 ±.159	<u>.95676</u> * ±.00486	<u>2.2387</u> * ±.0071	7xR + 7xF
"	1-5b 11:56	19K	700K	<u>16.429</u> * ±.022	<u>15.887</u> * ±.010	<u>37.065</u> * ±.039	<u>.96703</u> * ±.00133	<u>2.2561</u> ±.0037	12xR + 1xF
"	1-5c 12:10	19K	680K	<u>16.162</u> * ±.011	<u>15.320</u> * ±.023	<u>36.135</u> * ±.058	<u>.94792</u> * ±.00149	<u>2.2358</u> * ±.0037	11xR + 1xF
VBS									
3-1a	12:32	2900	11,000	16.911 ±.106	15.476 ±.101	36.785* ±.200	.91512 ±.00486	2.1752* ±.00816	1xR + 0xF
3-1b	12:46	300	11,000	16.644* ±.097	15.595 ±.104	37.367* ±.211	.93696* ±.00400	2.2451* ±.0053	4xR + 0xF
3-1c	13:00	310	13,000	16.075* ±.055	14.715 * ±.054	40.354* ±.121	.91537* ±.00297	2.5103* ±.0062	4xR + 0xF
NBS 611				17.051	15.518	36.999	.91006	2.1699	Reference
				4/6 = 0.05865					

17/3/08

K-field (cont.)

O⁻ beam on epoxy = 8.6 nA
 O₂⁻ " " " = 1.78 nA

* = Rejection during line-fit

NB: 1° stepping + generally not v. stable

HCl8 → 204 hard to centre

0801 ← cps →

Spot	Time	204	208	6/4	7/4	8/4	7/6	8/6	R/I
NBS									
3-2a	13:18	290	11,000	17.093* ± .074	15.626* ± .081	37.147 ± .227	.91418* ± .00513	2.1733* ± .0141	3 / C
3-2b	13:32	290	11,000	17.191 ± .105	15.628* ± .070	37.426* ± .113	.90904* ± .00607	2.1770* ± .0127	0 / C
3-2c	13:46	300	11,000	17.140* ± .178	14.419* ± .087	36.030* ± .201	.884122* ± .00826	2.1021 ± .0201	0 / 0
SWITCH TO O ₂ ⁻									
3-3a	14:07	170	6300	16.738* ± .101	15.416* ± .094	36.579* ± .201	.92100* ± .00514	2.1854* ± .0108	1 / C
3-3b	14:22	170	6000	16.309 ± .101	14.851 ± .109	34.939 ± .207	.91063 ± .00605	2.1423 ± .0108	1 / 0
3-3c	14:36	160	6300	16.905* ± .100	14.514 ± .084	38.588 ± .212	.85861* ± .00434	2.2827* ± .0109	1 / 0
SWITCH BACK TO O ⁻									
3-4a	14:54	270	9900	16.858 ± .085	15.363 ± .078	36.719 ± .187	.91127 ± .00275	2.1781 ± .0067	1 / 0
3-4b	15:09	270	10,000	17.341 ± .066	15.485 ± .069	37.151 ± .232	.89294 ± .00326	2.1423 ± .0121	1 / 0
3-4c	15:23	350	13,000	17.333 ± .081	15.675 ± .079	37.991 ± .168	.90431 ± .00310	2.1918 ± .0053	1 / 0
IRN. BHKF									
1-1a	15:49	19,000	690,000	16.492 ± .107	15.718 ± .211	37.128 ± .244	.95306 ± .01303	2.2513 ± .0158	4 / 11
1-1b	16:04	19,000	680,000	16.281* ± .009	15.551* ± .008	36.353* ± .055	.95517* ± .00060	2.2329* ± .0034	10 / 4
1-1c	16:18	18,000	680,000	16.097 ± .127	15.355 ± .134	38.376* ± .214	.95388 ± .00832	2.3840* ± .0133	14 / 2
HCl8									
1-1a	16:38	some fail to centre 16	630	17.22 ± 1.67	16.78* ± 1.04	38.47* ± 2.33	.9744* ± .0760	2.2339* ± .1723	1 / 0
1-1b	16:52	15	5/10	14.87 ± .29	15.56 ± 0.23	35.22 ± 0.47	1.047 ± .019	2.369 ± .040	2 / 0
1-1c	17:07	6.2	1300?	?	?	?	?	?	1 / 0
3H falena				16.004	15.390	35.651	.96163	2.2276	Ref.
NBS 611				17.051	15.518	36.999	.91006	2.1699	Ref.

added 203TL + 205TL to run table

[205/204]

0801 ← cps →

Spot	Time	204	208	6/4	7/4	8/4	7/6	8/6	R/F	$\frac{203}{205}$
Hc18 2-a	17:29	74	2500	13.95* ±.10	14.67 ±.12	33.31* ±.22	1.0515* ±.0083	2.387* ±.0157	%	
2-b	17:43	73	2500	14.24 ±.15	14.48 ±.10	33.87 ±.21	1.0369 ±.0103	2.379 ±.0227	1/0	
2-c	17:58	76	2400	12.77 12.77 ±.095	13.25 ±.090	32.02 ±.19	1.0375 ±.0070	2.508 ±.015	1/0	
Hc18 3-a	18:15	82	2700	13.45* ±.11	14.51* ±.09	33.06* ±.19	1.0791 ±.0084	2.459 ±.018	%	
3-b	18:30	81	2700	12.52* ±.12	14.65* ±.15	33.78 ±.31	1.1704* ±.0097	2.698* ±.019	%	
3-c	18:44	71	2300	12.96 ±.17	13.27 ±.17	32.40 ±.39	1.0243 ±.0113	2.5001 ±.025	1/0	
Hc18 4-a	19:14	110	3600	13.91* ±.15	14.81* ±.13	33.12 ±.45	1.0647* ±.0098	2.381* ±.033	3/0	.427 [1.50]
# 4-b	19:31	110	3700	14.43 14.43 ±.08	15.73 14.43 ±.11	34.09* ±.21	1.0902 ±.0070	2.363* ±.014	2/0	.391 [1.63]
# 4-c	19:49	1200	4000	14.88 ±.13	16.22 ±.16	34.56* ±.28	1.0906 ±.0086	2.323* ±.013	%	.397 [1.66]

— FINISH —