020_2003-06-28T06-48 Initial DC Measurements Table

DCSEL!	Initial	Voltage	Current (mA)
0	5V current	0.4429	--> 4.229
1	-5V current	1.2901	--> 1.090
2	3.3V current	1.9096	--> -0.009
3	5V voltage	5.0078	
4	-5V voltage	-5.0019	
5	3.3V voltage	3.3415	
6	preout voltage	2.9389	L
7	scopeout voltage	2.9452	L

DCSEL!	After DCSETUP	Voltage	Current (mA)
0	5V current	3.8487	--> 38.287 L
1	-5V current	1.2913	--> 1.091
2	3.3V current	1.9567	--> -0.004
3	5V voltage	5.0049	
4	-5V voltage	-5.0019	
5	3.3V voltage	3.3414	
6	preout voltage	3.9923	
7	scopeout voltage	0.6611	

Initial Limits

5V current	4.000 -	4.400
-5V current	1.040 -	1.120
3.3V current	-0.010 -	0.001
5V voltage	4.850 -	5.150
-5V voltage	-5.150 -	-4.850
3.3V voltage	3.240 -	3.440
preout voltage	3.000 -	3.500
scopeout voltage	3.000 -	3.500

After DCSETUP Limits

5V current	38.400 -	40.800
-5V current	1.040 -	1.120
3.3V current	-0.010 -	0.001
5V voltage	4.850 -	5.150
-5V voltage	-5.150 -	-4.850
3.3V voltage	3.240 -	3.440
preout voltage	3.750 -	4.250
scopeout voltage	0.620 -	0.670

Current readings after phatest.f upload (mA) (operator entered)
3.3V current reading = 6.75
5V digital current reading = 72.0
+10V digital current reading = 30.7
neg10V current reading = 28.9

Bad channels (operator entered)
First known bad channel = 9
2nd known bad channel = -1

020_2003-06-28T06-48 Preout Table

PHA	V_prein	V_a(4V)	V_b(5V)	R_fb = (299*(V_a − V_b)
0	3.9926	4.0007	3.6541	103.63
1	3.9982	4.0022	3.6557	103.60
2	3.9981	4.0021	3.6557	103.57
3	3.9978	4.0015	3.6552	103.54
4	3.9980	4.0018	3.6560	103.39 L
5	3.9978	4.0016	3.6560	103.33 L
6	3.9981	4.0019	3.6566	103.24 L
7	3.9983	4.0022	3.6565	103.36 L
8	3.9994	4.0035	3.6585	103.15 L
9	3.9996	4.0039	3.6592	103.07 L
10	3.9997	4.0039	3.6592	103.07 L
11	4.0006	4.0050	3.6600	103.15 L
12	4.0005	4.0050	3.6600	103.15 L
13	4.0005	4.0048	3.6602	103.04 L
14	4.0010	4.0058	3.6612	103.04 L
15	4.0015	4.0064	3.6621	102.95 L

lolim= 103.50
hilim= 105.50

PHA	V0	V1	V2	V3	V4	V5	V6	V7	V8	V9	V10
0	1.8864	1.8913	1.8961	1.9059	1.9252	1.9637	2.0118	2.1373	2.3867	2.8850	3.8475
1	1.8888	1.8937	1.8985	1.9082	1.9275	1.9660	2.0142	2.1394	2.3889	2.8875	3.8469
2	1.8891	1.8940	1.8988	1.9085	1.9278	1.9662	2.0143	2.1396	2.3892	2.8876	3.8493
3	1.8893	1.8942	1.8990	1.9086	1.9280	1.9666	2.0147	2.1404	2.3897	2.8894	3.8537
4	1.8923	1.8972	1.9020	1.9117	1.9311	1.9696	2.0178	2.1432	2.3931	2.8928	3.8590
5	1.8934	1.8982	1.9030	1.9127	1.9321	1.9707	2.0190	2.1446	2.3946	2.8951	3.8621
6	1.8960	1.9009	1.9057	1.9154	1.9348	1.9735	2.0217	2.1474	2.3981	2.8987	3.8683
7	1.8940	1.8988	1.9036	1.9133	1.9328	1.9717	2.0200	2.1460	2.3973	2.9000	3.8724
8	1.8984	1.9033	1.9081	1.9178	1.9373	1.9762	2.0245	2.1505	2.4013	2.9045	3.8780
9	1.9022	1.9071	1.9119	1.9216	1.9411	1.9799	2.0283	2.1541	2.4047	2.9071	3.8784
10	1.9013	1.9062	1.9110	1.9207	1.9402	1.9789	2.0273	2.1534	2.4033	2.9056	3.8760
11	1.9009	1.9058	1.9106	1.9204	1.9398	1.9786	2.0270	2.1530	2.4033	2.9041	3.8768
12	1.9009	1.9058	1.9105	1.9203	1.9398	1.9786	2.0271	2.1532	2.4038	2.9066	3.8755
13	1.9021	1.9070	1.9118	1.9215	1.9410	1.9796	2.0281	2.1542	2.4053	2.9065	3.8745
14	1.9042	1.9091	1.9139	1.9235	1.9430	1.9816	2.0299	2.1551	2.4043	2.9045	3.8653
15	1.9063	1.9111	1.9159	1.9254	1.9446	1.9828	2.0310	2.1562	2.4057	2.9051	3.8664

a_i = 5/(V_i − V0), for i=1-5. a_i = V_prein/(V_i − V0), for i=6-10.

PHA	a0	a1	a2	a3	a4	a5	a6	a7	a8	a9	a10
0	NA	1020.4	515.5	256.4	128.9	64.68	31.84	15.91	7.980	3.998	2.036
1	NA	1020.4	515.5	257.7	129.2	64.77	31.88	15.95	7.995	4.003	2.042 H
2	NA	1020.4	515.5	257.7	129.2	64.85	31.93	15.96	7.995	4.004	2.040
3	NA	1020.4	515.5	259.1	129.2	64.68	31.88	15.92	7.989	3.997	2.035
4	NA	1020.4	515.5	257.7	128.9	64.68	31.86	15.93	7.983	3.996	2.033
5	NA	1041.7	520.8	259.1	129.2	64.68	31.83	15.91	7.976	3.991	2.031
6	NA	1020.4	515.5	257.7	128.9	64.52	31.81	15.90	7.963	3.987	2.027
7	NA	1041.7	520.8	259.1	128.9	64.35	31.73	15.87	7.944	3.974	2.021
8	NA	1020.4	515.5	257.7	128.5	64.27	31.72	15.86	7.953	3.975	2.020
9	NA	1020.4	515.5	257.7	128.5	64.35	31.72	15.88	7.959	3.980	2.024
10	NA	1020.4	515.5	257.7	128.5	64.43	31.74	15.87	7.968	3.983	2.025
11	NA	1020.4	515.5	256.4	128.5	64.35	31.73	15.87	7.963	3.988	2.025
12	NA	1020.4	520.8	257.7	128.5	64.35	31.70	15.86	7.955	3.978	2.026
13	NA	1020.4	515.5	257.7	128.5	64.52	31.75	15.87	7.950	3.983	2.028
14	NA	1020.4	515.5	259.1	128.9	64.60	31.83	15.95	8.000	4.000	2.040 H
15	NA	1041.7	520.8	261.8 H	130.5 H	65.36 H	32.09	16.01	8.013	4.006	2.041 H
lolim		1003.5	501.8	250.9	125.5	62.72	31.36	15.68	7.840	3.920	1.960
hilim		1044.5	522.2	261.1	130.5	65.28	32.64	16.32	8.160	4.080	2.040

020_2003-06-28T06-48 Low-gain DC Table

PHA	DCSETUP-LG	AOGOUT	AMP2X	PDOUT	CLGH	CLGL_DISCIN	DISCREF	L1DISCREF-DC	DCSETUP-LG
0	0.6546 H	0.1923	0.3891	0.3817	0.3264	0.3331 H	0.5348	0.3507	0.6546 H
1	0.6531	0.1915	0.3637 L	0.3563 L	0.3007 L	0.2843 L	0.5340	0.3507	0.6532
2	0.6531	0.1928	0.3917	0.3800	0.3246	0.3081	0.5355	0.3516	0.6531
3	0.6515	0.1936	0.3580 L	0.3526 L	0.2971 L	0.3185 H	0.5268 L	0.3482	0.6515
4	0.6513	0.1929	0.3787	0.3669	0.3114 L	0.2985	0.5330	0.3500	0.6513
5	0.6520	0.1934	0.3784	0.3672	0.3121 L	0.3532 H	0.5295 L	0.3482	0.6520
6	0.6520	0.1927	0.3761	0.3688	0.3130 L	0.3400 H	0.5328	0.3489	0.6521
7	0.6521	0.1932	0.3866	0.3720	0.3165	0.3381 H	0.5322	0.3495	0.6521
8	0.6518	0.1925	0.3809	0.3660	0.3104 L	0.2956 L	0.5304 L	0.3495	0.6518
9	3.6090 H	0.1928	0.3958	0.3895 H	0.3340 H	0.2597 L	0.5335	0.5328 H	3.6091 H
10	0.6510	0.1929	0.3668 L	0.3645 L	0.3091 L	0.3161 H	0.5313	0.3503	0.6510
11	0.6508	0.1930	0.3627 L	0.3609 L	0.3054 L	0.3014	0.5336	0.3504	0.6508
12	0.6509	0.1923	0.3660 L	0.3646 L	0.3094 L	0.3166 H	0.5342	0.3509	0.6509
13	0.6515	0.1923	0.4004 H	0.3902 H	0.3346 H	0.3373 H	0.5314	0.3505	0.6515
14	0.6525	0.1931	0.3852	0.3754	0.3197	0.2645 L	0.5335	0.3511	0.6526
15	0.6526	0.1928	0.3738	0.3678	0.3121 L	0.3107	0.5362	0.3504	0.6526
lolim	0.6157	0.1869	0.3738	0.3652	0.3134	0.2970	0.5310	0.3449	0.6157
hilim	0.6538	0.1984	0.3968	0.3878	0.3328	0.3153	0.5639	0.3662	0.6538

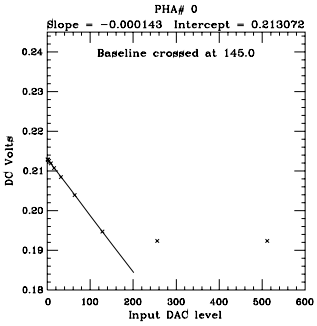
PHA	$200	$100	$80	$40	$20	$10	8	4	2	1
0	0.19233	0.19233	0.19474	0.20389	0.20844	0.21076	0.21191	0.21252	0.21281	0.21294
1	0.19146	0.20416	0.21693	0.22312	0.22617	0.22772	0.22846	0.22885	0.22902	0.22911
2	0.19281	0.19283	0.20616	0.21435	0.21840	0.22045	0.22145	0.22200	0.22222	0.22238
3	0.19364	0.19363	0.19849	0.20631	0.21024	0.21218	0.21315	0.21363	0.21383	0.21399
4	0.19295	0.19296	0.19292	0.20038	0.20438	0.20642	0.20741	0.20793	0.20819	0.20832
5	0.19337	0.19339	0.19926	0.20761	0.21180	0.21388	0.21494	0.21550	0.21572	0.21587
6	0.19268	0.19271	0.20008	0.20804	0.21201	0.21402	0.21500	0.21548	0.21571	0.21588
7	0.19321	0.19324	0.19324	0.19620	0.20081	0.20301	0.20420	0.20469	0.20505	0.20520
8	0.19246	0.19244	0.19901	0.20697	0.21097	0.21294	0.21389	0.21445	0.21468	0.21481
9	0.19279	0.19801	0.21183	0.21855	0.22188	0.22353	0.22438	0.22475	0.22499	0.22511
10	0.19289	0.19290	0.20619	0.21367	0.21746	0.21931	0.22027	0.22069	0.22094	0.22105
11	0.19295	0.19295	0.20463	0.21211	0.21582	0.21765	0.21860	0.21905	0.21929	0.21941
12	0.19225	0.19226	0.20538	0.21294	0.21672	0.21859	0.21949	0.21999	0.22025	0.22035
13	0.19231	0.19231	0.19230	0.20075	0.20520	0.20745	0.20862	0.20916	0.20946	0.20959
14	0.19308	0.19309	0.20587	0.21330	0.21696	0.21882	0.21974	0.22019	0.22038	0.22052
15	0.19274	0.19275	0.20098	0.20927	0.21345	0.21547	0.21657	0.21708	0.21736	0.21748

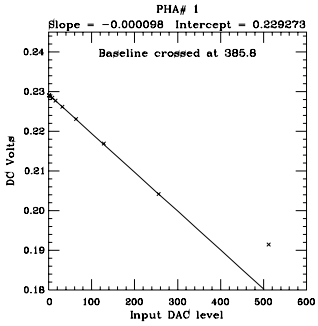
020_2003-06-28T06-48 Hi-gain DC Table

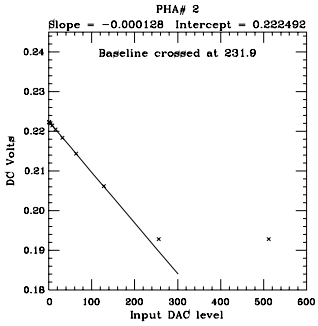
PHA	DCSETUP-LG	AOGOUT	AMP2X	PDOUT	CLGH	CLGL_DISCIN	DISCREF	L1DISCREF-DC	DCSETUP-LG
0	0.6534	0.1920	0.3934	0.3858	0.3304	0.3582 H	0.5323	0.3501	0.6534
1	0.6545 H	0.1932	0.3937	0.3789	0.3232	0.3596 H	0.5343	0.3501	0.6546 H
2	0.6526	0.1928	0.3979 H	0.3833	0.3278	0.2867 L	0.5345	0.3514	0.6526
3	0.6518	0.1930	0.3789	0.3721	0.3165	0.2662 L	0.5321	0.3505	0.6518
4	0.6519	0.1928	0.3803	0.3718	0.3164	0.3477 H	0.5311	0.3487	0.6520
5	0.6510	0.1918	0.3699 L	0.3679	0.3126 L	0.2630 L	0.5326	0.3491	0.6510
6	0.6516	0.1945	0.3800	0.3754	0.3198	0.3389 H	0.5321	0.3500	0.6516
7	0.6513	0.1918	0.3800	0.3791	0.3237	0.3316 H	0.5293 L	0.3483	0.6513
8	0.6516	0.1928	0.3750	0.3632 L	0.3076 L	0.3164 H	0.5318	0.3492	0.6516
9	0.6508	0.1932	0.4015 H	0.3934 H	0.3377 H	0.3076	0.5348	0.3510	0.6508
10	0.6503	0.1921	0.3809	0.3759	0.3203	0.3382 H	0.5322	0.3486	0.6503
11	0.6508	0.1923	0.3758	0.3752	0.3196	0.3476 H	0.5310 L	0.3494	0.6508
12	0.6502	0.1909	0.3915	0.3836	0.3279	0.3212 H	0.5364	0.3515	0.6502
13	0.6508	0.1920	0.3798	0.3770	0.3215	0.2970 L	0.5351	0.3503	0.6508
14	0.6516	0.1927	0.3957	0.3905 H	0.3349 H	0.3451 H	0.5366	0.3510	0.6517
15	0.6517	0.1929	0.3804	0.3736	0.3183	0.3483 H	0.5351	0.3499	0.6517
lolim	0.6157	0.1869	0.3738	0.3652	0.3134	0.2970	0.5310	0.3449	0.6157
hilim	0.6538	0.1984	0.3968	0.3878	0.3328	0.3153	0.5639	0.3662	0.6538

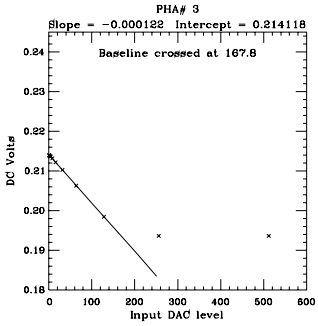
PHA	$200	$100	$80	$40	$20	$10	8	4	2	1
0	0.19198	0.19199	0.19198	0.19241	0.19724	0.19970	0.20096	0.20155	0.20184	0.20206
1	0.19322	0.19324	0.19735	0.20601	0.21037	0.21255	0.21363	0.21413	0.21444	0.21457
2	0.19277	0.19277	0.19608	0.20432	0.20851	0.21050	0.21156	0.21207	0.21235	0.21245
3	0.19298	0.19295	0.19297	0.20016	0.20439	0.20652	0.20756	0.20813	0.20838	0.20855
4	0.19277	0.19277	0.19962	0.20794	0.21210	0.21423	0.21524	0.21578	0.21604	0.21614
5	0.19177	0.19181	0.19679	0.20509	0.20930	0.21138	0.21240	0.21296	0.21325	0.21335
6	0.19447	0.19448	0.20571	0.21288	0.21642	0.21819	0.21907	0.21953	0.21974	0.21987
7	0.19182	0.19185	0.19260	0.20155	0.20612	0.20832	0.20947	0.21009	0.21030	0.21048
8	0.19278	0.19278	0.19354	0.20252	0.20703	0.20925	0.21037	0.21092	0.21120	0.21134
9	0.19321	0.19838	0.21282	0.21988	0.22344	0.22523	0.22606	0.22648	0.22670	0.22682
10	0.19212	0.19212	0.19635	0.20491	0.20918	0.21133	0.21235	0.21290	0.21318	0.21334
11	0.19229	0.19228	0.20557	0.21289	0.21655	0.21837	0.21925	0.21968	0.21994	0.22005
12	0.19091	0.19222	0.20748	0.21505	0.21887	0.22072	0.22166	0.22216	0.22239	0.22252
13	0.19206	0.19204	0.20296	0.21093	0.21494	0.21690	0.21787	0.21835	0.21862	0.21875
14	0.19272	0.19272	0.20033	0.20819	0.21212	0.21411	0.21510	0.21555	0.21579	0.21593
15	0.19292	0.19292	0.20371	0.21170	0.21564	0.21766	0.21863	0.21911	0.21938	0.21949

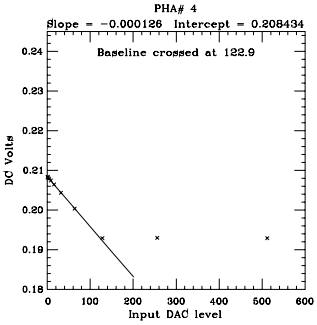
Low-gain DC Analysis
020_2003-06-28T06-48

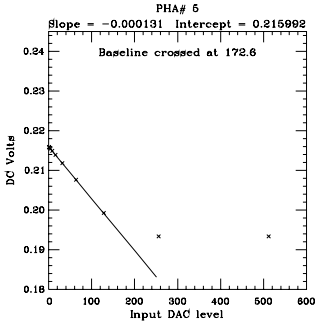


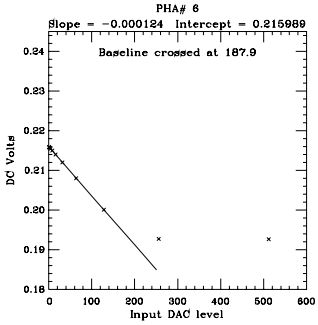


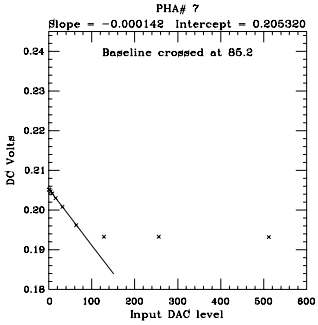


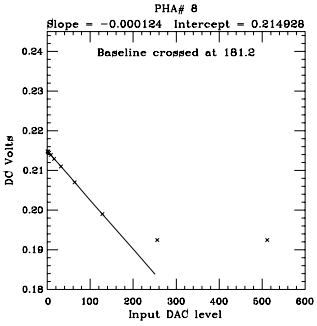


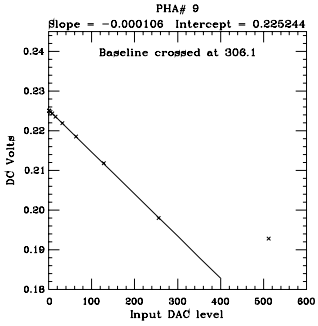


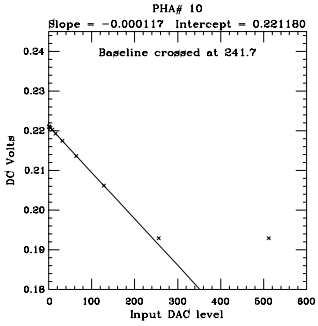


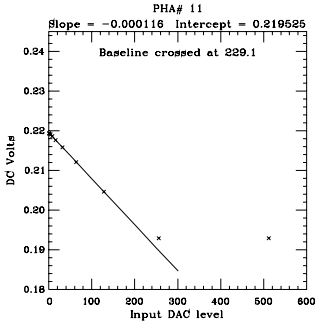


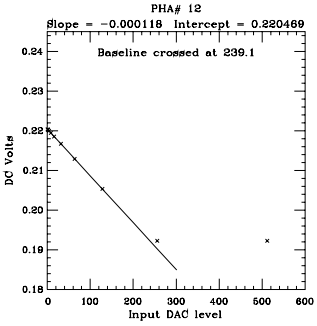


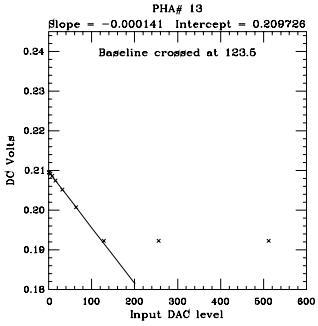


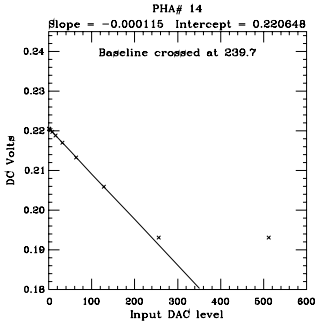


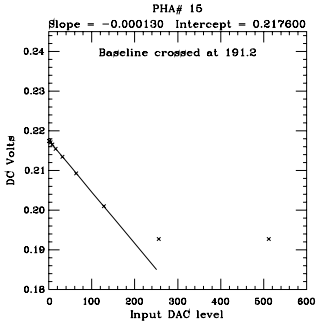




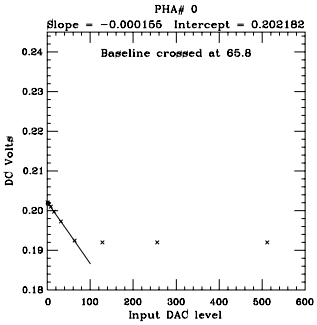


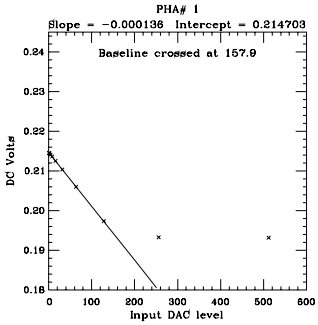


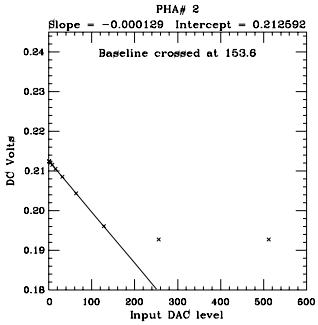


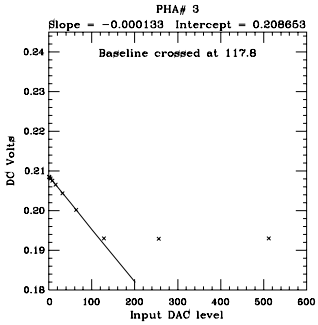


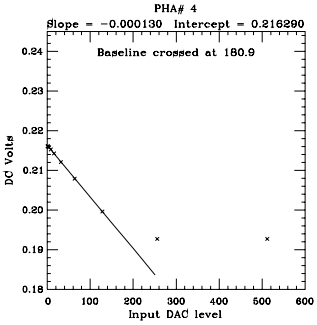
Hi-gain DC Analysis
020_2003-06-28T06-48

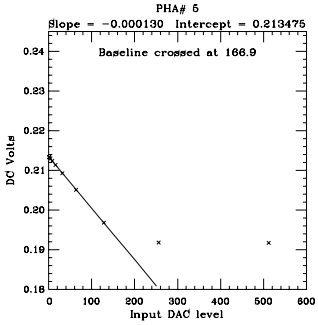


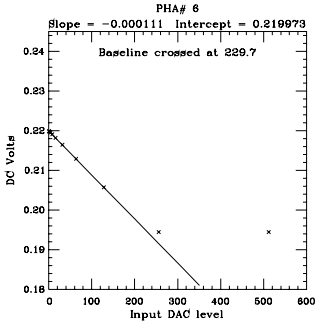


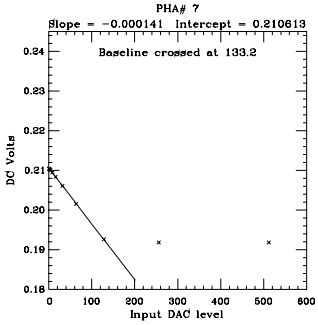


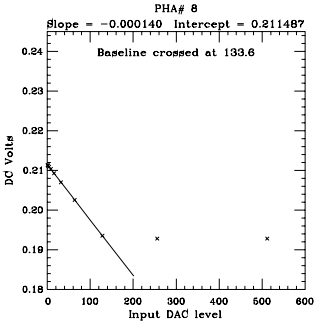


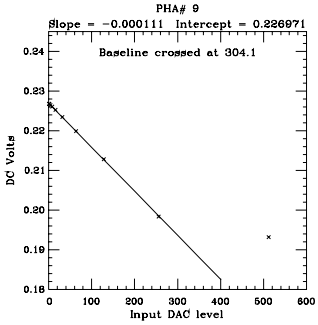


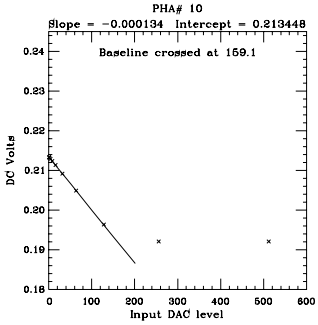


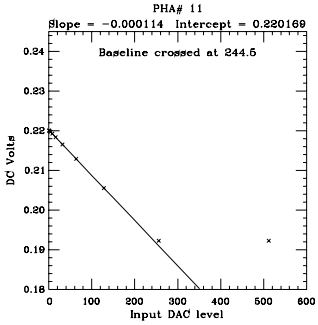


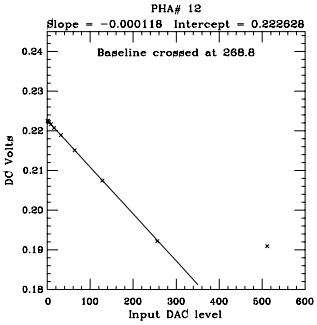


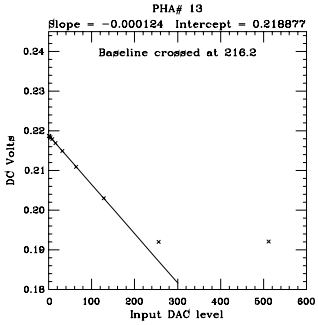


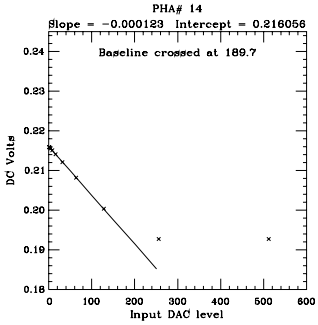


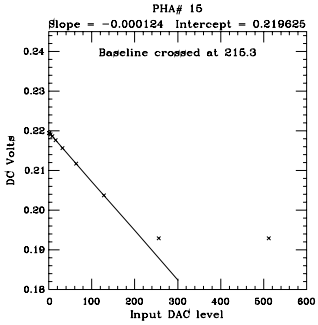












```
Doing Low-gain ctest scan
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 2.20 LG-CTEST    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0 OK
 2.40 LG-CTEST    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0 OK
 2.60 LG-CTEST    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0 OK
 2.80 LG-CTEST    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0 OK
 3.00 LG-CTEST    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0 OK
 3.20 LG-CTEST    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0 OK
 3.40 LG-CTEST    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0 OK
 3.60 LG-CTEST    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0 OK
 3.80 LG-CTEST    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0 OK
 4.00 LG-CTEST    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0 OK
 4.20 LG-CTEST    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0 OK
 4.40 LG-CTEST    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0 OK
 4.60 LG-CTEST    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0 OK
 4.80 LG-CTEST    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0 OK
 5.00 LG-CTEST    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0 OK
 5.20 LG-CTEST    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0 OK
 5.40 LG-CTEST    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0 OK
 5.60 LG-CTEST    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0 OK
 5.80 LG-CTEST    0    0    0    0    0    1    0    0    0    0    0    0    0    0    0    0 OK
 6.00 LG-CTEST    0    0    0    0    0    1    0    0    0    0    0    0    0    0    0    0 OK
 6.20 LG-CTEST    0    0    0    0    0    2    0    0    0    0    0    0    0    0    0    0 OK
 6.40 LG-CTEST    0    0    0    0    0    7    0    0    0    0    0    0    0    0    0    0 OK
 6.60 LG-CTEST    5    0    0    0    0   15    4    0    0    0    0    0    0    2    0    0 OK
 6.80 LG-CTEST    3    0    0    0    0   20    3    0    0    0    0    0    0    8    0    0 OK
 7.00 LG-CTEST   11    0    0    0    0   64    1    1    0    0    0    0    0   22    0    0 OK
 7.20 LG-CTEST   27    0    0    0    0  147   10   11    0    0    0    0    0   42    0    0 OK
 7.40 LG-CTEST   54    0    0    1    0  304   27   18    0    0    0    0    0   88    0    0 OK
 7.60 LG-CTEST  117    0    0    0    0  487   63   32    0    0    0    0    0  199    0    0 OK
 7.80 LG-CTEST  234    0    0    1    0  883   98   86    0    0    5    0    0  343    0    0 OK
 8.00 LG-CTEST  457    0    0    6    0 1397  268  148    0    0   10    0    1  645    0    0 OK
 8.20 LG-CTEST  804    0    0   16    0 2122  447  285    0    0   22    0    5 1141    0    1 OK
 8.40 LG-CTEST 1369    0    0   31    0 2813  795  564    0    0   53    0   11 1724    0    1 OK
 8.60 LG-CTEST 1995    0    1   73    0 3612 1198  984    1    0  111    0   18 2531    0    2 OK
 8.80 LG-CTEST 2729    0    2  124    0 4303 2013 1546    2    0  235    1   46 3274    0   13 OK
 9.00 LG-CTEST 3532    0   13  283    3 4794 2686 2248    1    0  422    5   87 4022    0   19 OK
 9.20 LG-CTEST 4208    0   16  471    4 5203 3509 2999    8    0  768    4  171 4579    0   33 OK
 9.40 LG-CTEST 4761    0   48  797   12 5509 4182 3822   16    0 1219   13  318 5060    0   78 OK
 9.60 LG-CTEST 5223    0  116 1294   24 5717 4697 4413   43    0 1897   29  596 5410    0  149 OK
 9.80 LG-CTEST 5515    1  187 1911   66 5861 5144 4900  106    0 2613   54 1009 5667    0  301 OK
10.00 LG-CTEST 5708    1  362 2570  137 5965 5452 5303  179    0 3350  139 1586 5825    0  583 OK
10.20 LG-CTEST 5869    3  684 3338  240 6049 5679 5576  379    0 4060  220 2306 5938    0  984 OK
10.40 LG-CTEST 5972    9 1149 3986  430 6098 5834 5765  645    0 4666  450 3034 6019    0 1606 OK
10.60 LG-CTEST 6042   13 1703 4587  738 6145 5955 5906 1001    1 5102  739 3720 6078    0 2289 OK
10.80 LG-CTEST 6099   47 2297 5015 1173 6168 6031 5994 1587    2 5393 1197 4365 6124    3 3067 OK
11.00 LG-CTEST 6140   81 3003 5308 1702 6186 6081 6061 2322    1 5643 1768 4832 6160    3 3754 OK
11.20 LG-CTEST 6167  159 3736 5564 2373 6208 6124 6110 2948    9 5801 2373 5188 6179    4 4391 OK
11.40 LG-CTEST 6191  297 4302 5737 3031 6221 6161 6151 3603   20 5901 3073 5465 6197    8 4826 OK
11.60 LG-CTEST 6204  509 4739 5846 3640 6234 6176 6171 4174   27 5986 3675 5654 6212   20 5173 OK
11.80 LG-CTEST 6217  771 5081 5940 4146 6240 6196 6194 4653   49 6056 4159 5806 6222   35 5431 OK
12.00 LG-CTEST 6226 1085 5289 5996 4538 6244 6209 6210 4956   82 6088 4533 5891 6231   58 5608 OK
Vlgctest = 5.8

Doing High-gain ctest scan
 2.00 HG-CTEST    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0 OK
 2.20 HG-CTEST    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0 OK
 2.40 HG-CTEST    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0 OK
 2.60 HG-CTEST    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0 OK
 2.80 HG-CTEST    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0 OK
 3.00 HG-CTEST    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0 OK
 3.20 HG-CTEST    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0 OK
 3.40 HG-CTEST    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0 OK
 3.60 HG-CTEST    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0 OK
 3.80 HG-CTEST    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0 OK
 4.00 HG-CTEST    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0 OK
 4.20 HG-CTEST    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0 OK
 4.40 HG-CTEST    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0 OK
 4.60 HG-CTEST    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0 OK
 4.80 HG-CTEST    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0 OK
 5.00 HG-CTEST    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0 OK
 5.20 HG-CTEST    0    1    0    0    0    0    0    0    0    0    0    0    0    0    0    0 OK
 5.40 HG-CTEST    0    8    0    0    0    0    0    0    0    0    0    0    0    0    1    0 OK
 5.60 HG-CTEST    1    8    0    0    1    0    0    0    0    0    0    0    0    0    0    0 OK
 5.80 HG-CTEST    0   25    0    0    3    0    0    0    0    0    0    0    0    0    0    0 OK
 6.00 HG-CTEST    4   49    0    0   10    0    0    0    0    0    0    0    0    0    1    0 OK
 6.20 HG-CTEST    7   92    0    0   19    0    0    0    0    0    0    1    0    0    2    2 OK
 6.40 HG-CTEST   31  189    0    0   24    0    0    0    0    0    4    0    0    0    5    6 OK
 6.60 HG-CTEST   48  372    0    0   61    0    0    0    0    0    2    2    0    0    9   10 OK
 6.80 HG-CTEST   96  635    0    0  142    0    1    0    0    0    5    0    0    0   15   15 OK
 7.00 HG-CTEST  173 1083    0    0  275    0    1    2    0    0   13   10    0    0   39   45 OK
```
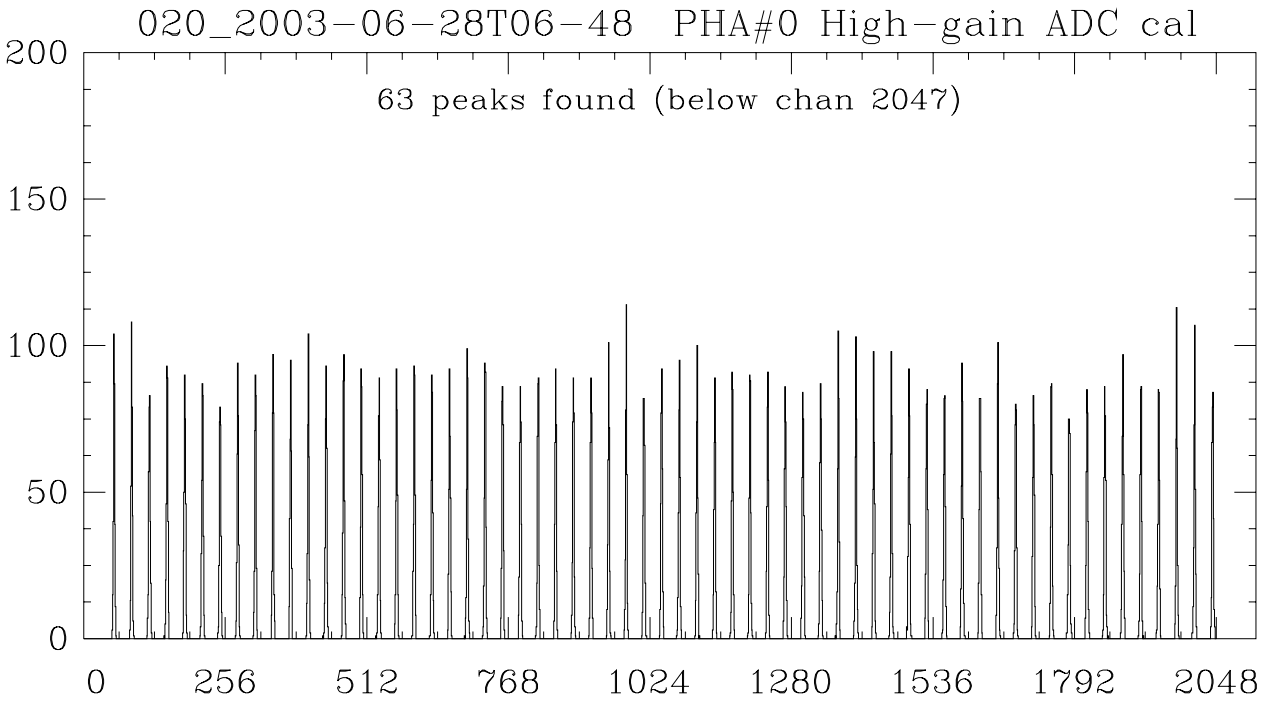
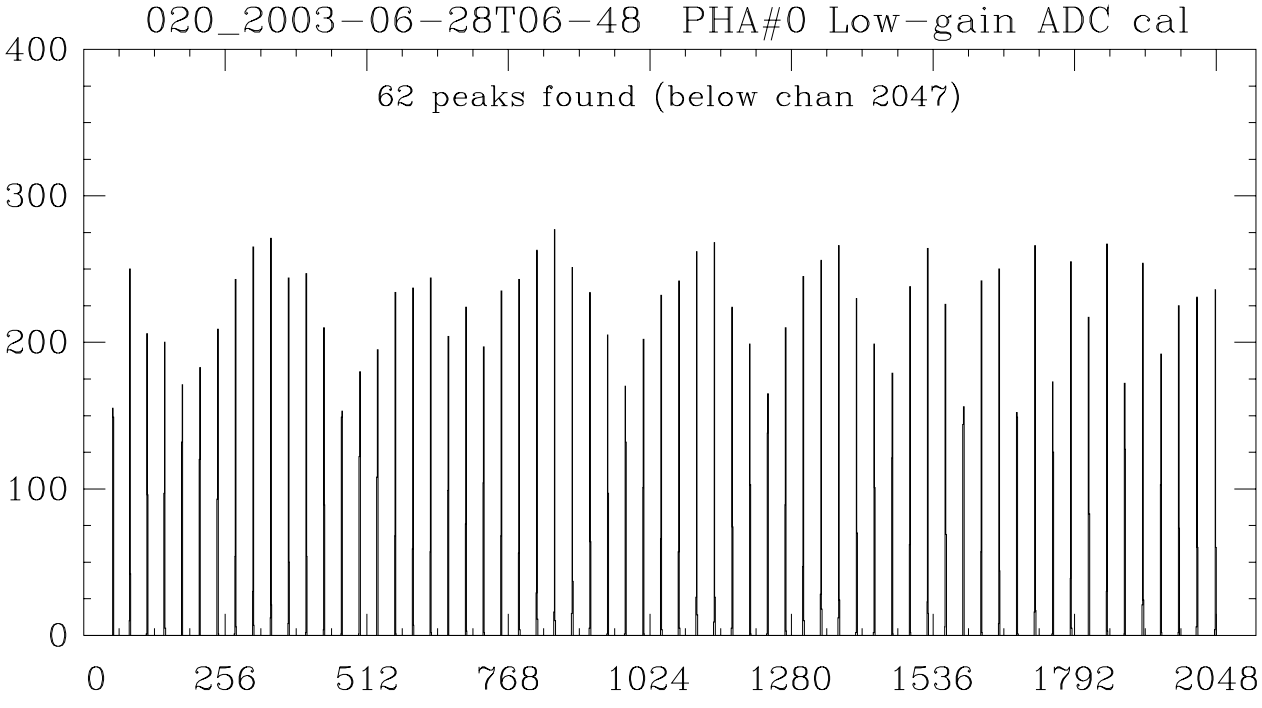

```
 7.20 HG-CTEST  403 1679    0    0  484    0    4    1    0    0   26   22    0    0   86   92 OK
 7.40 HG-CTEST  667 2416    0    0  803    0   13    3    0    0   73   40    0    0  190  220 OK
 7.60 HG-CTEST 1174 3161    0    0 1351    0   35   14    3    0  157  100    0    0  314  399 OK
 7.80 HG-CTEST 1804 3880    0    0 2027    0   69   26    1    0  287  222    2    0  628  757 OK
 8.00 HG-CTEST 2503 4480    0    0 2772    0  134   44    1    0  519  435    2    0 1136 1248 OK
 8.20 HG-CTEST 3247 4994    0    0 3556    0  266  111    5    2  939  779    4    0 1701 1912 OK
 8.40 HG-CTEST 3991 5343    0    0 4169    0  503  259   13    1 1457 1206   16    1 2512 2728 OK
 8.60 HG-CTEST 4550 5600    0    0 4757    0  908  447   21    4 2188 1829   29    1 3288 3499 OK
 8.80 HG-CTEST 5018 5785    0    0 5170    0 1502  739   79   14 3023 2662   81    9 4081 4205 OK
 9.00 HG-CTEST 5339 5907    0    0 5464    0 2226 1176  150   28 3746 3380  126   11 4689 4780 OK
 9.20 HG-CTEST 5606 5989    0    0 5690    0 2959 1842  260   47 4431 4062  278   28 5103 5236 OK
 9.40 HG-CTEST 5784 6059    0    0 5837    0 3744 2514  527  122 4952 4626  475   58 5463 5496 OK
 9.60 HG-CTEST 5901 6097    1    0 5955    0 4407 3258  942  192 5315 5089  848  137 5682 5718 OK
 9.80 HG-CTEST 5999 6130    1    0 6031    0 4884 3947 1445  401 5596 5400 1372  269 5837 5875 OK
10.00 HG-CTEST 6057 6157    0    0 6090    0 5288 4568 2163  739 5770 5633 2022  504 5958 5979 OK
10.20 HG-CTEST 6100 6169    1    0 6133    0 5537 5006 2910 1128 5900 5809 2763  876 6040 6048 OK
10.40 HG-CTEST 6133 6179    7    0 6163    0 5744 5334 3706 1765 6004 5920 3478 1410 6090 6101 OK
10.60 HG-CTEST 6167 6193   14    0 6182    0 5891 5586 4348 2457 6065 6011 4202 2074 6133 6140 OK
10.80 HG-CTEST 6180 6202   28    0 6199    0 5988 5757 4854 3187 6114 6066 4694 2918 6164 6162 OK
11.00 HG-CTEST 6197 6209   55    0 6215    0 6055 5898 5240 3843 6148 6115 5125 3609 6185 6185 OK
11.20 HG-CTEST 6211 6215  103    1 6224    3 6099 5980 5518 4426 6174 6150 5417 4236 6202 6205 OK
11.40 HG-CTEST 6222 6218  195    1 6231    3 6143 6053 5716 4853 6194 6171 5641 4745 6216 6217 OK
11.60 HG-CTEST 6224 6220  337    4 6238    2 6166 6098 5831 5198 6209 6187 5792 5118 6224 6224 OK
11.80 HG-CTEST 6228 6220  542    4 6240    4 6187 6133 5934 5434 6218 6203 5893 5365 6230 6231 OK
12.00 HG-CTEST 6235 6222  775    9 6242    5 6201 6161 5999 5588 6226 6216 5968 5556 6235 6235 OK
Vhgctest = 5.2
Vedc = 5.2
izero = 22.7276561296
Ra = .243
Rb = .365
0 temp = -35, Rt = .6493, Vedct = 5.52490618676
1 temp = -15, Rt = .2062, Vedct = 4.68810744182
2 temp = 5, Rt = .07444, Vedct = 4.1203369512
3 temp = 25, Rt = .0300, Vedct = 3.84533078145
4 temp = 45, Rt = .01328, Vedct = 3.72552552454
config 2 +0384532
gpibcontrol: (config 2 +0384532) status= 0, CONFIG successful
User confirms EDC voltage = 3.84533078145 and connection to Vthresh

Doing LG-TSCAN at room temp
LG-TSCAN
   80    0    0    0    0    0   21    0    0    0    0    0    0    0    1    0    0
  100  149    0    0    0    0  180  186   79    0    0   24    0    0  129    0    0
  120  154    0  218  174    0  183  197   92   14    0  248  181  245  135    0  196
  140  159  244  241  180  130  189  201   96  189    0  254  238  250  139    0  202
  160  163  392  246  184  134  193  206  101  195    0  259  243  257  145  244  207
  180  167  400  252  190  141  198  211  104  200    0  266  248  261  147  250  211
  200  171  406  256  195  147  202  216  109  205    0  270  252  266  152  255  216
  220  176  412  261  200  151  207  221  114  211    0  274  258  272  156  262  221
  240  179  417  265  204  156  211  226  117  214    0  280  263  277  161  267  225
  260  183  424  271  209  160  216  230  122  219    0  284  268  281  163  272  230 OK

Doing HG-TSCAN at room temp
HG-TSCAN
   50   67  161    0    0  183    0    0    0    0    0   61  244    0    0  189  214
   70   71  165    0    0  185    0  228  132    0    0  163  248  101    0  196  222
   90   77  170    0    0  190    0  233  137  134  305  170  254  275  211  204  230
  110   82  177  148    0  196    0  242  143  144  314  177  263  283  227  210  235
  130   87  182  165  116  201  153  249  148  148  323  182  269  289  235  217  241
  150   92  189  171  129  208  175  255  154  156  329  188  277  295  241  223  248
  170   96  194  177  137  214  184  264  162  162  336  195  283  301  248  230  254
  190  102  200  184  143  220  191  270  167  167  345  200  289  310  253  236  260
  210  109  206  190  148  225  197  278  172  172  351  207  298  315  260  241  267
  230  113  211  197  155  233  202  284  177  179  358  211  303  324  267  249  272 OK
config 2 +0384532
gpibcontrol: (config 2 +0384532) status= 0, CONFIG successful
User confirms EDC voltage = 3.84533078145 and connection to Vthresh

Doing AC Tests at 25 degrees C
ACTESTS
COUNTER TEST

HG
   0   500030 500029 500029 0 0 4096 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   1   500030 500029 0 0 500029 4096 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   2   500030 499922 0 0 0 4096 499922 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   3   500030 499775 0 0 0 4096 0 0 499775 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   4   500030 500029 0 0 0 4096 0 0 0 0 500029 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   5   500028 500025 0 0 0 4096 0 0 0 0 0 0 500025 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   6   500030 499772 0 0 0 4096 0 0 0 0 0 0 0 0 499772 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   7   500029 500029 0 0 0 4096 0 0 0 0 0 0 0 0 0 0 500029 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
```

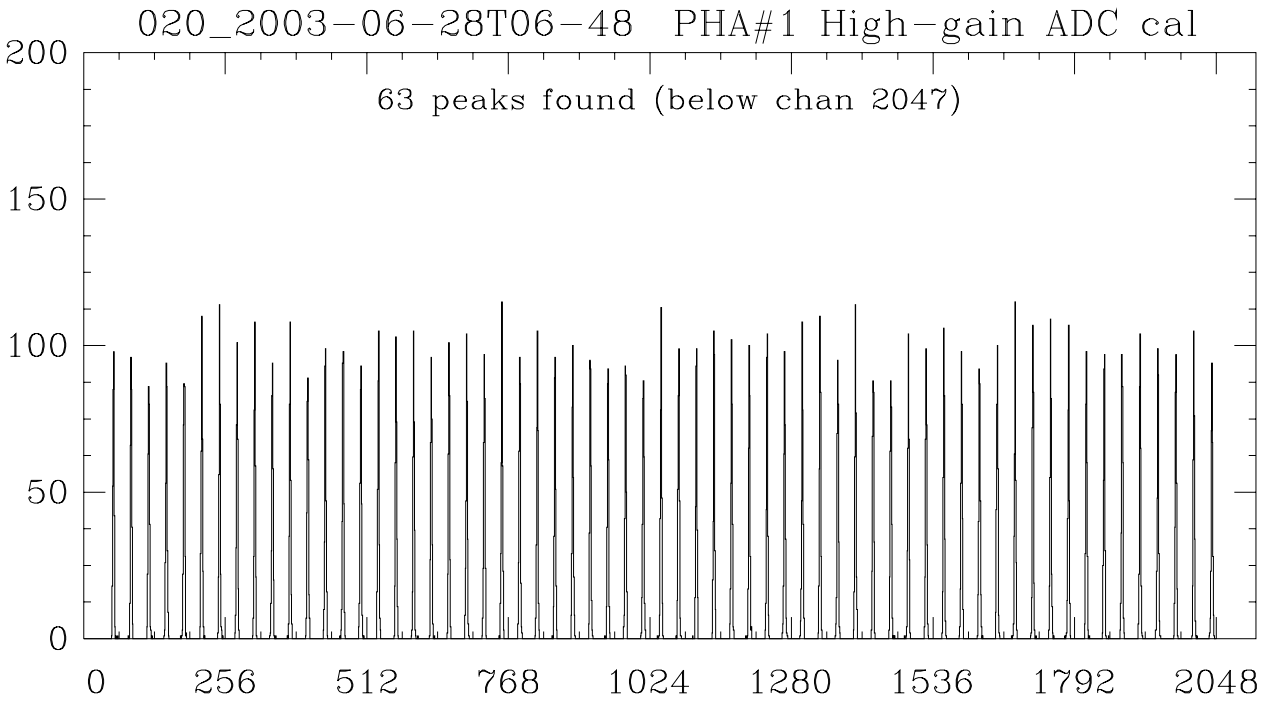
```
   8   500030 500029 0 0 0 4096 0 0 0 0 0 0 0 0 0 0 0 500029 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   9   500026 500024 0 0 0 4096 0 0 0 0 0 0 0 0 0 0 0 0 0 500024 0 0 0 0 0 0 0 0 0 0 0 0
  10   500032 500030 0 0 0 4096 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 500030 0 0 0 0 0 0 0 0 0 0
  11   500026 499927 0 0 0 4096 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 499927 0 0 0 0 0 0 0 0
  12   500030 500030 0 0 0 4096 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 500030 0 0 0 0 0 0
  13   500052 500051 0 0 0 4096 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 500051 0 0 0 0
  14   500051 499968 0 0 0 4096 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 499968 0 0 0
  15   500052 500052 0 0 0 4096 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 500052 0

LG
   0   500028 500027 0 500027 0 4096 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   1   500025 499559 0 0 0 8039 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   2   500026 500025 0 0 0 4096 0 500025 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   3   500028 499556 0 0 0 4096 0 0 0 499556 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   4   500028 499558 0 0 0 4096 0 0 0 0 0 0 499558 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   5   500030 499582 0 0 0 4096 0 0 0 0 0 0 0 0 499582 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   6   500030 499575 0 0 0 4096 0 0 0 0 0 0 0 0 0 0 499575 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   7   500030 499578 0 0 0 4096 0 0 0 0 0 0 0 0 0 0 0 0 499578 0 0 0 0 0 0 0 0 0 0 0 0 0
   8   500028 499557 0 0 0 4096 0 0 0 0 0 0 0 0 0 0 0 0 0 499557 0 0 0 0 0 0 0 0 0 0 0 0
   9   0 0 0 0 0 4096 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
  10   500030 499553 0 0 0 4096 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 499553 0 0 0 0 0 0 0 0
  11   500032 499563 0 0 0 4096 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 499563 0 0 0 0 0 0 0
  12   500030 499576 0 0 0 4096 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 499576 0 0 0 0 0
  13   500030 499568 0 0 0 4096 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 499568 0 0 0
  14   500051 499574 0 0 0 4096 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 499574 0 0
  15   500032 499599 0 0 0 4096 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 499599
GOR TEST
HG
   0   42  0  0    0 42  0    0  0 41
   1   41  0  0    0 42  0    0  0 42
   2   41  0  0    0 42  0    0  0 42
   3   42  0  0    0 41  0    0  0 42
   4   42  0  0    0 41  0    0  0 42
   5   42  0  0    0 41  0    0  0 42
   6   42  0  0    0 41  0    0  0 42
   7   42  0  0    0 41  0    0  0 42
   8   42  0  0    0 42  0    0  0 41
   9   42  0  0    0 42  0    0  0 41
  10   42  0  0    0 42  0    0  0 41
  11   42  0  0    0 42  0    0  0 41
  12   42  0  0    0 42  0    0  0 41
  13   42  0  0    0 42  0    0  0 41
  14   42  0  0    0 42  0    0  0 41
  15   42  0  0    0 42  0    0  0 41
LG
   0   42  0  0    0 41  0    0  0 42
   1   42  0  0    0 41  0    0  0 42
   2   42  0  0    0 41  0    0  0 42
   3   42  0  0    0 41  0    0  0 42
   4   42  0  0    0 41  0    0  0 42
   5   42  0  0    0 41  0    0  0 42
   6   42  0  0    0 41  0    0  0 42
   7   42  0  0    0 41  0    0  0 42
   8   42  0  0    0 41  0    0  0 42
   9    0  0  0    0  0  0    0  0  0
  10   42  0  0    0 41  0    0  0 42
  11   41  0  0    0 42  0    0  0 42
  12   41  0  0    0 42  0    0  0 42
  13   41  0  0    0 42  0    0  0 42
  14   42  0  0    0 42  0    0  0 41
  15   42  0  0    0 42  0    0  0 41
HG-TFND
   54   54  104  124   67  128   83   87   84   86   66   63   77   82   56   57
LG-TFND
   88  136  116  106  121   85   93   94  120  959  100  116  107   82  143  109
 0 L1D-HGCAL
```

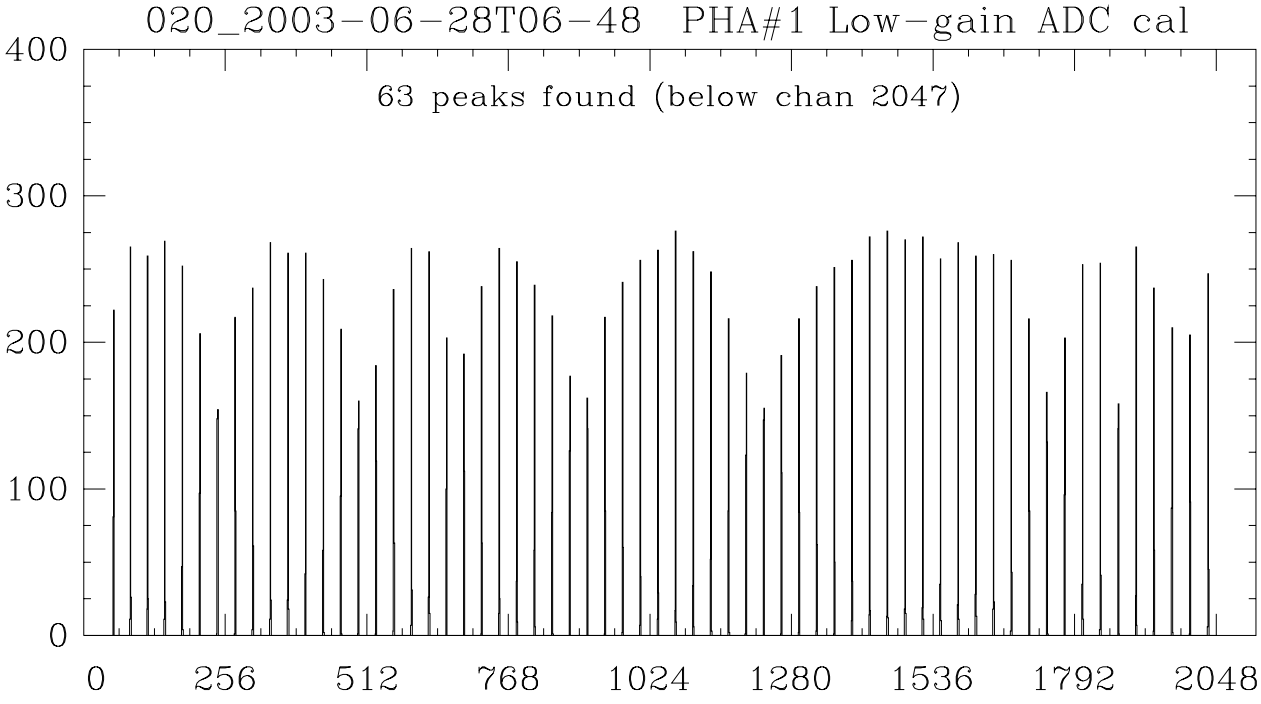

020_2003-06-28T06-48 PHA#0 High-gain ADC cal
63 peaks found (below chan 2047)
200
150
100
50
0
0
256
512
768
1024
1280
1536
1792
2048


020_2003-06-28T06-48 PHA#0 Low-gain ADC cal
62 peaks found (below chan 2047)
400
300
200
100
0
0
256
512
768
1024
1280
1536
1792
2048

020_2003-06-28T06-48 PHA#0 ADC Calibration analysis

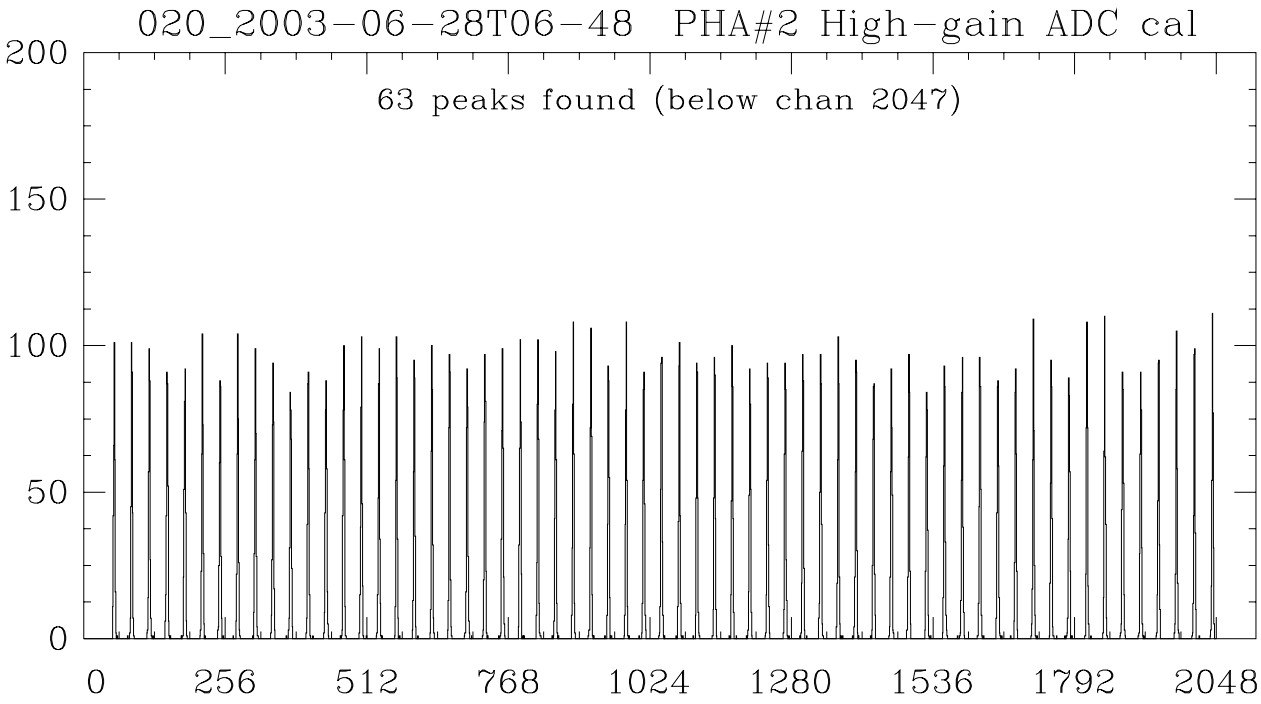
HIGH-GAIN			LOW-GAIN		
peak#	Mean	Sigma	peak#	Mean	Sigma
1	54.91	1.11	1	53.00	0.30
2	86.80	1.15	2	83.64	0.45
3	118.90	1.39	3	114.87	0.40
4	150.91	1.21	4	146.16	0.48
5	182.80	1.39	5	178.02	0.30
6	214.75	1.33	6	210.04	0.30
7	246.57	1.41	7	242.13	0.40
8	278.62	1.28	8	274.29	0.44
9	310.58	1.25	9	306.23	0.33
10	342.46	1.18	10	338.21	0.26
11	374.35	1.34	11	370.68	0.45
12	406.38	1.17	12	402.76	0.40
13	438.35	1.26	13	434.82	0.46
14	470.11	1.17	14	467.00	0.42
15	502.10	1.26	15	499.06	0.38
16	534.17	1.34	16	531.05	0.29
17	565.95	1.32	17	563.18	0.39
18	598.01	1.22	18	595.28	0.45
19	629.89	1.28	19	627.23	0.40
20	661.84	1.40	20	659.06	0.29
21	693.84	1.13	21	691.20	0.43
22	725.90	1.18	22	723.12	0.44
23	757.47	1.32	23	755.10	0.29
24	789.66	1.36	24	787.26	0.42
25	821.68	1.25	25	819.23	0.33
26	853.44	1.33	26	851.17	0.24
27	885.49	1.27	27	883.60	0.46
28	917.53	1.32	28	915.75	0.44
29	949.52	1.22	29	947.88	0.41
30	981.32	1.04	30	979.95	0.42
31	1013.22	1.36	31	1012.12	0.41
32	1045.18	1.32	32	1044.24	0.43
33	1077.15	1.26	33	1076.27	0.43
34	1109.18	1.27	34	1108.24	0.32
35	1141.28	1.38	35	1140.22	0.25
36	1173.02	1.27	36	1172.77	0.45
37	1204.95	1.24	37	1204.92	0.35
38	1237.06	1.32	38	1237.03	0.40
39	1268.80	1.41	39	1269.17	0.44
40	1300.86	1.43	40	1301.34	0.45
41	1332.72	1.37	41	1333.45	0.45
42	1364.72	1.14	42	1365.22	0.27
43	1396.62	1.15	43	1397.80	0.41
44	1428.73	1.35	44	1429.87	0.43
45	1460.62	1.21	45	1462.07	0.42
46	1492.72	1.32	46	1494.22	0.40
47	1524.84	1.37	47	1526.24	0.31
48	1556.88	1.37	48	1558.75	0.46
49	1588.85	1.26	49	1591.01	0.41
50	1621.08	1.38	50	1623.23	0.40
51	1653.20	1.15	51	1655.66	0.44
52	1685.54	1.38	52	1688.00	0.42
53	1717.81	1.47	53	1720.20	0.26
54	1750.16	1.29	54	1752.94	0.42
55	1782.38	1.45	55	1785.32	0.41
56	1814.76	1.39	56	1817.91	0.30
57	1846.92	1.37	57	1850.23	0.33
58	1879.31	1.31	58	1882.95	0.42
59	1911.82	1.31	59	1915.51	0.45
60	1944.10	1.33	60	1948.12	0.44
61	1976.51	1.07	61	1980.81	0.41
62	2009.31	1.15	62	2013.73	0.45
63	2041.81	1.36			

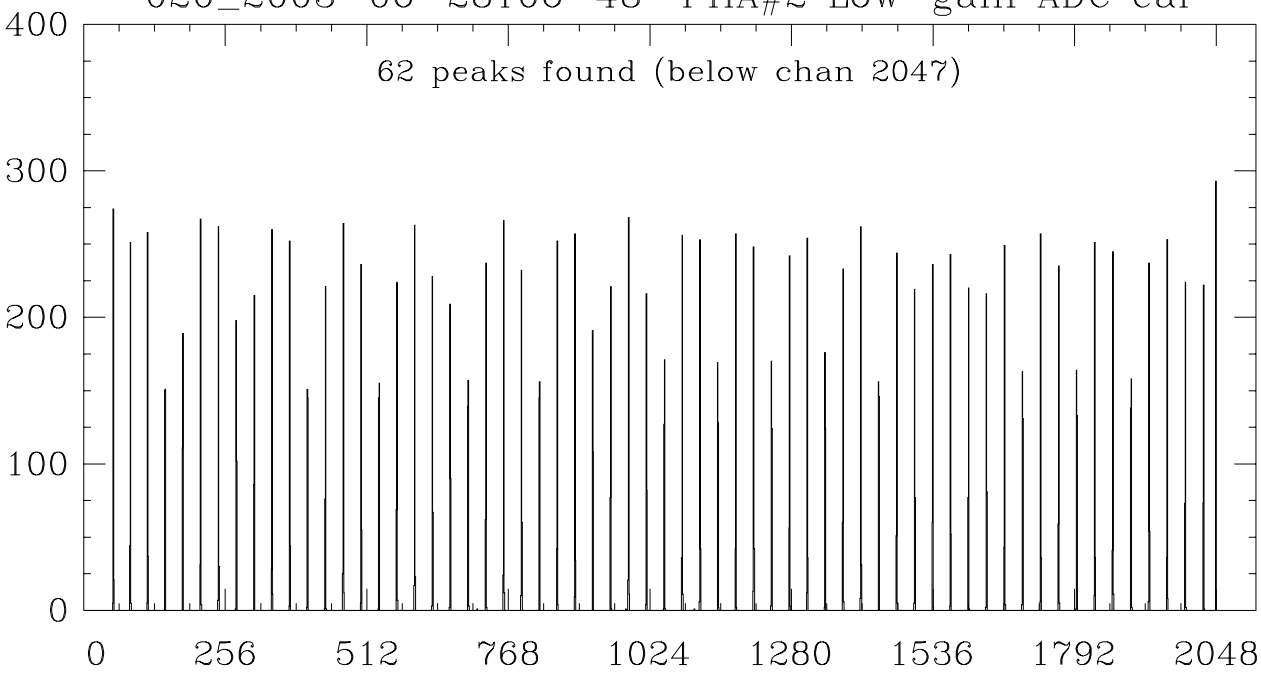

020_2003-06-28T06-48 PHA#1 High-gain ADC cal
63 peaks found (below chan 2047)
200
150
100
50
0
0
256
512
768
1024
1280
1536
1792
2048


020_2003-06-28T06-48 PHA#1 Low-gain ADC cal
63 peaks found (below chan 2047)
400
300
200
100
0
0
256
512
768
1024
1280
1536
1792
2048

020_2003-06-28T06-48 PHA#1 ADC Calibration analysis

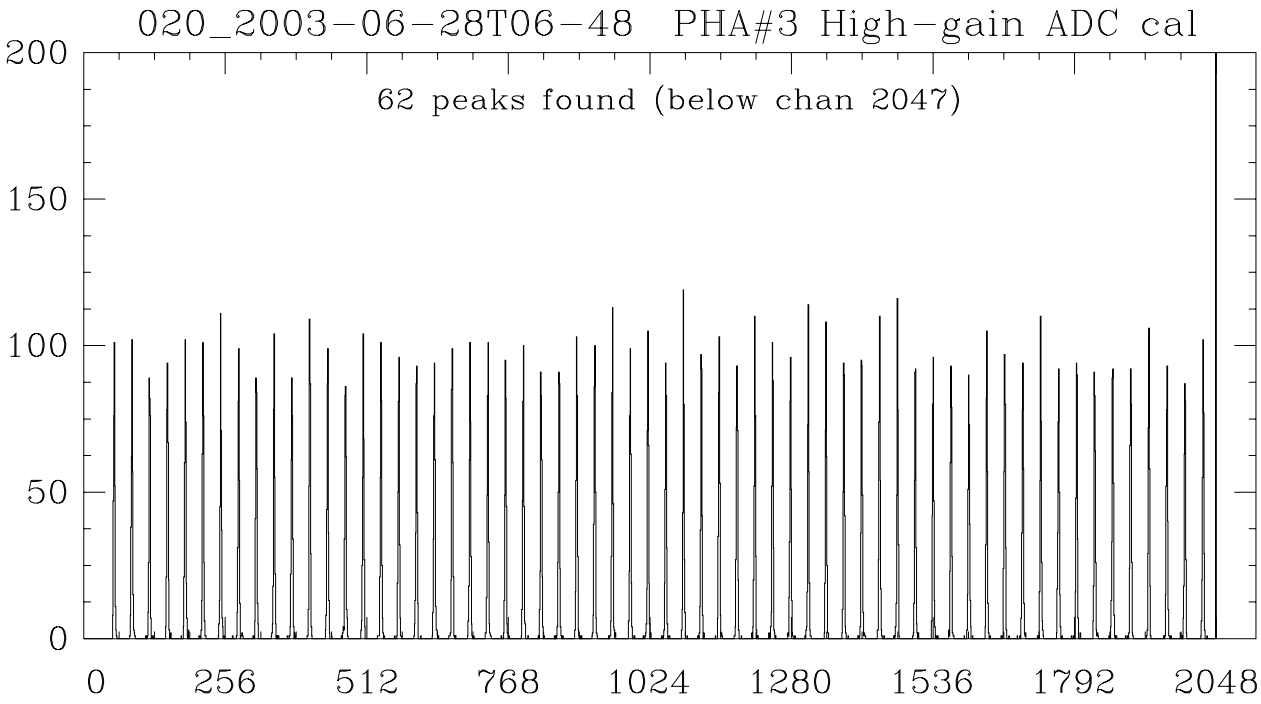
HIGH-GAIN			LOW-GAIN		
peak#	Mean	Sigma	peak#	Mean	Sigma
1	53.95	1.21	1	54.08	0.29
2	85.75	1.21	2	84.23	0.27
3	117.72	1.33	3	115.53	0.45
4	149.76	1.23	4	146.21	0.26
5	181.62	1.27	5	178.29	0.41
6	213.50	1.14	6	210.07	0.29
7	245.65	1.04	7	242.01	0.42
8	277.40	1.19	8	273.85	0.40
9	309.35	1.13	9	305.75	0.43
10	341.26	1.22	10	337.21	0.26
11	373.26	1.12	11	369.25	0.33
12	405.20	1.30	12	401.14	0.28
13	437.12	1.12	13	433.23	0.40
14	469.05	1.12	14	465.13	0.40
15	500.97	1.25	15	497.02	0.41
16	532.94	1.13	16	528.92	0.42
17	564.68	1.19	17	560.77	0.42
18	596.67	1.17	18	592.63	0.42
19	628.59	1.27	19	624.27	0.34
20	660.65	1.17	20	656.06	0.29
21	692.77	1.16	21	687.95	0.30
22	724.59	1.20	22	719.80	0.38
23	756.47	1.08	23	751.24	0.29
24	788.62	1.19	24	783.37	0.44
25	820.41	1.15	25	815.28	0.44
26	852.15	1.19	26	847.15	0.40
27	884.30	1.18	27	879.03	0.30
28	916.15	1.19	28	910.99	0.30
29	948.18	1.23	29	942.85	0.40
30	980.07	1.21	30	974.78	0.40
31	1012.19	1.29	31	1006.66	0.43
32	1044.20	1.10	32	1038.59	0.43
33	1076.03	1.22	33	1070.17	0.24
34	1107.98	1.14	34	1102.35	0.41
35	1139.90	1.03	35	1134.26	0.41
36	1171.78	1.18	36	1166.17	0.42
37	1203.67	1.16	37	1198.06	0.38
38	1235.98	1.07	38	1230.00	0.30
39	1267.65	1.23	39	1261.91	0.41
40	1299.80	1.14	40	1293.83	0.42
41	1331.70	1.09	41	1325.76	0.42
42	1363.66	1.22	42	1357.77	0.37
43	1395.61	1.04	43	1389.63	0.44
44	1427.66	1.29	44	1421.20	0.26
45	1459.72	1.32	45	1453.17	0.24
46	1491.50	1.20	46	1485.20	0.27
47	1523.59	1.23	47	1517.19	0.27
48	1555.76	1.13	48	1549.38	0.44
49	1587.82	1.24	49	1581.20	0.28
50	1620.03	1.23	50	1613.25	0.33
51	1652.18	1.21	51	1645.24	0.30
52	1684.40	1.13	52	1677.71	0.40
53	1716.59	1.08	53	1709.92	0.29
54	1748.69	1.06	54	1741.96	0.40
55	1781.16	1.15	55	1774.06	0.29
56	1813.36	1.23	56	1806.39	0.44
57	1845.81	1.18	57	1838.69	0.41
58	1878.09	1.21	58	1871.02	0.42
59	1910.35	1.12	59	1903.24	0.33
60	1942.81	1.13	60	1935.76	0.42
61	1975.17	1.22	61	1968.16	0.42
62	2007.67	1.17	62	2000.87	0.40
63	2040.50	1.26	63	2033.69	0.43

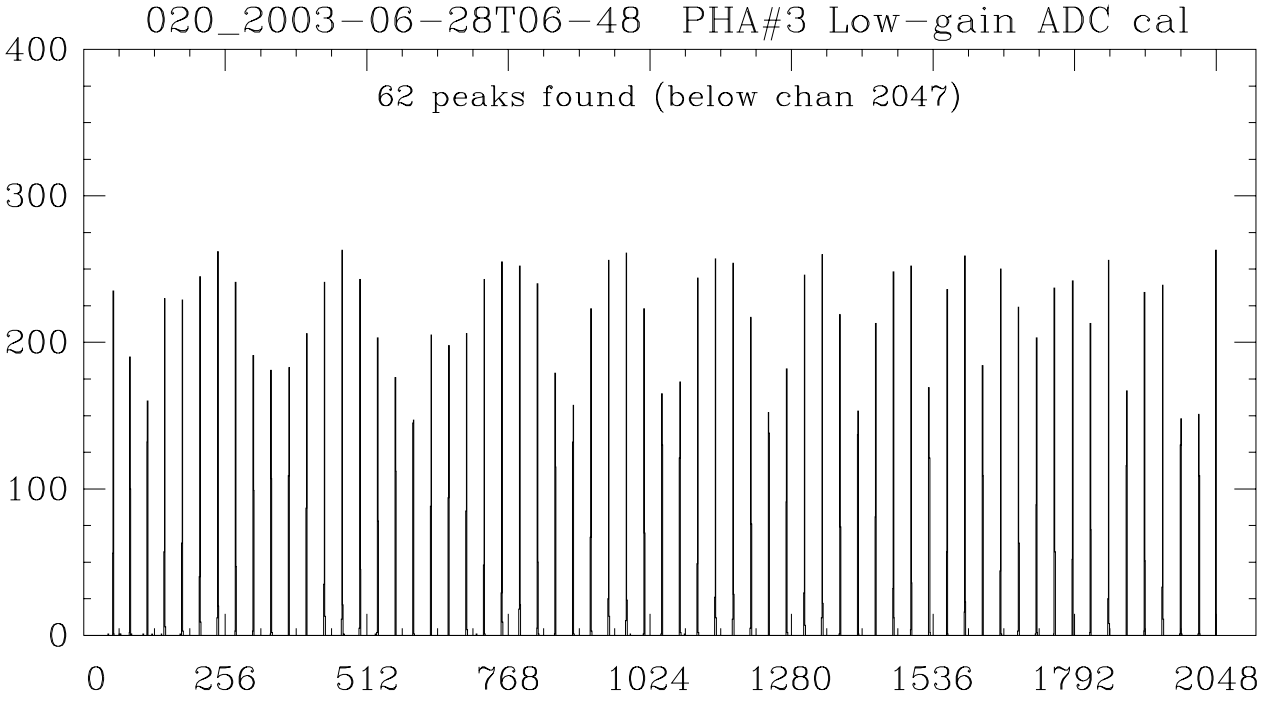

020_2003-06-28T06-48 PHA#2 High-gain ADC cal
63 peaks found (below chan 2047)
200
150
100
50
0
0
256
512
768
1024
1280
1536
1792
2048


020_2003-06-28T06-48 PHA#2 Low-gain ADC cal
62 peaks found (below chan 2047)
400
300
200
100
0
0
256
512
768
1024
1280
1536
1792
2048

020_2003-06-28T06-48 PHA#2 ADC Calibration analysis

HIGH-GAIN			LOW-GAIN		
peak#	Mean	Sigma	peak#	Mean	Sigma
1	55.31	1.26	1	53.21	0.23
2	86.95	1.11	2	84.31	0.42
3	118.76	1.12	3	115.67	0.41
4	151.02	1.23	4	147.00	0.30
5	182.94	1.28	5	179.05	0.29
6	214.59	1.18	6	211.24	0.33
7	246.70	1.27	7	243.63	0.42
8	278.59	1.15	8	275.89	0.41
9	310.55	1.25	9	308.08	0.29
10	342.45	1.21	10	340.28	0.36
11	374.33	1.36	11	372.72	0.40
12	406.17	1.24	12	404.99	0.45
13	438.19	1.32	13	437.17	0.39
14	470.24	1.20	14	469.24	0.32
15	502.17	1.19	15	501.73	0.43
16	533.96	1.16	16	534.01	0.41
17	565.82	1.11	17	566.25	0.46
18	597.81	1.17	18	598.24	0.30
19	629.73	1.15	19	630.78	0.42
20	661.65	1.14	20	662.85	0.43
21	693.61	1.22	21	695.03	0.47
22	725.56	1.18	22	727.22	0.40
23	757.40	1.22	23	759.23	0.31
24	789.51	1.20	24	791.70	0.47
25	821.36	1.13	25	824.01	0.41
26	853.24	1.22	26	856.30	0.41
27	885.32	1.12	27	888.62	0.43
28	917.41	1.14	28	920.95	0.30
29	949.10	1.22	29	953.16	0.39
30	981.23	1.13	30	985.20	0.28
31	1012.96	1.26	31	1017.80	0.45
32	1044.90	1.12	32	1050.06	0.44
33	1077.05	1.11	33	1082.38	0.44
34	1108.99	1.19	34	1114.68	0.42
35	1140.93	1.16	35	1146.95	0.42
36	1172.89	1.17	36	1179.27	0.39
37	1204.94	1.30	37	1211.62	0.46
38	1236.83	1.18	38	1243.93	0.47
39	1268.74	1.17	39	1276.25	0.41
40	1300.68	1.16	40	1308.61	0.45
41	1332.87	1.16	41	1340.93	0.45
42	1364.67	1.11	42	1373.27	0.45
43	1396.77	1.18	43	1405.62	0.42
44	1428.62	1.27	44	1437.99	0.30
45	1460.78	1.34	45	1470.29	0.43
46	1492.66	1.16	46	1502.78	0.46
47	1524.72	1.35	47	1535.22	0.40
48	1556.78	1.20	48	1567.74	0.41
49	1588.93	1.21	49	1600.16	0.39
50	1620.99	1.21	50	1632.83	0.42
51	1653.14	1.27	51	1665.30	0.41
52	1685.34	1.23	52	1697.95	0.49
53	1717.59	1.08	53	1730.66	0.42
54	1749.84	1.22	54	1763.26	0.44
55	1782.19	1.28	55	1795.96	0.42
56	1814.49	1.10	56	1828.62	0.44
57	1846.60	1.15	57	1861.37	0.45
58	1879.07	1.25	58	1894.03	0.45
59	1911.62	1.30	59	1926.71	0.44
60	1943.90	1.12	60	1959.36	0.43
61	1976.32	1.09	61	1992.19	0.41
62	2008.97	1.08	62	2025.17	0.39
63	2041.69	1.09			


020_2003-06-28T06-48 PHA#3 High-gain ADC cal
62 peaks found (below chan 2047)
200
150
100
50
0
0
256
512
768
1024
1280
1536
1792
2048


020_2003-06-28T06-48 PHA#3 Low-gain ADC cal
62 peaks found (below chan 2047)
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300
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1024
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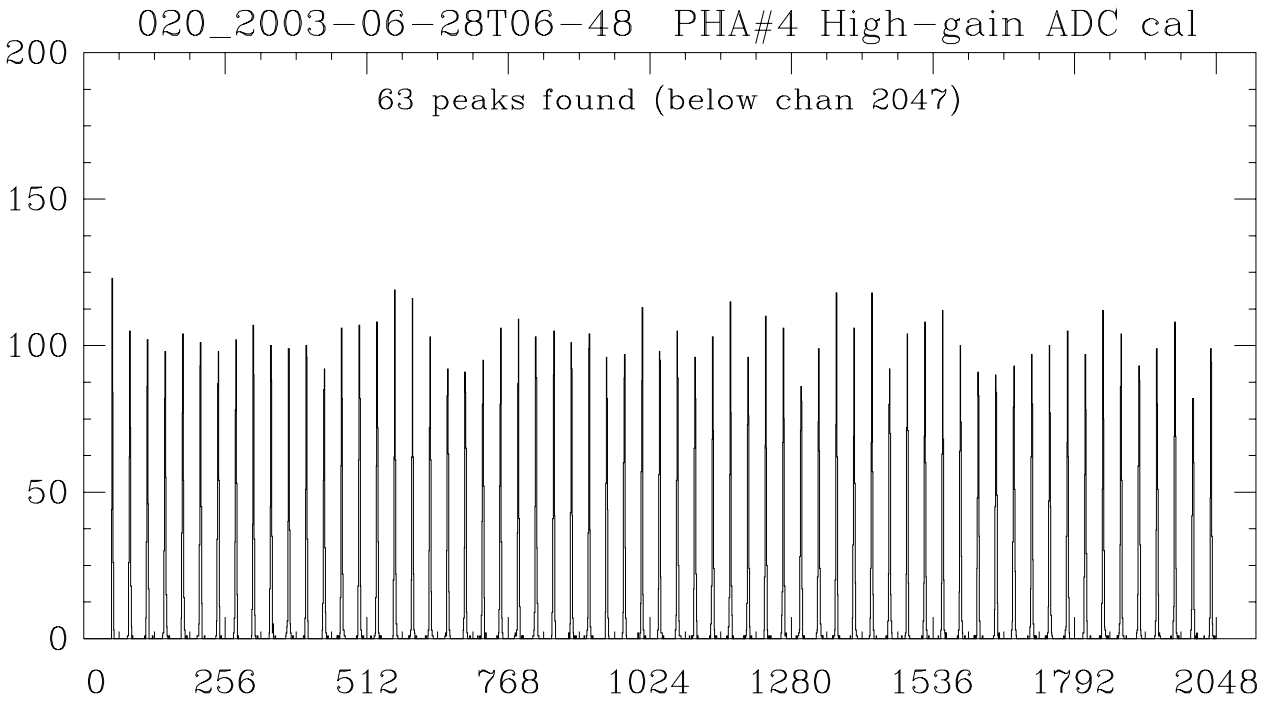
020_2003-06-28T06-48 PHA#3 ADC Calibration analysis

HIGH-GAIN			LOW-GAIN		
peak#	Mean	Sigma	peak#	Mean	Sigma
1	55.15	1.22	1	53.21	0.38
2	87.35	1.19	2	83.88	0.44
3	119.30	1.22	3	115.02	0.30
4	151.42	1.17	4	146.28	0.45
5	183.59	1.11	5	178.23	0.42
6	215.64	1.12	6	210.35	0.44
7	247.76	1.07	7	242.20	0.25
8	280.23	1.13	8	274.73	0.41
9	312.12	1.25	9	306.86	0.46
10	344.36	1.07	10	338.90	0.43
11	376.68	1.28	11	371.05	0.30
12	408.78	1.04	12	403.07	0.28
13	441.02	1.12	13	435.40	0.45
14	473.23	1.22	14	467.56	0.42
15	505.60	1.15	15	499.70	0.42
16	537.70	1.13	16	531.83	0.42
17	569.91	1.19	17	563.96	0.30
18	602.07	1.14	18	596.00	0.42
19	634.28	1.20	19	628.07	0.29
20	666.34	1.12	20	660.06	0.29
21	698.63	1.16	21	692.18	0.45
22	730.96	1.13	22	724.23	0.37
23	762.89	1.21	23	756.23	0.33
24	795.06	1.17	24	788.25	0.31
25	827.27	1.24	25	820.71	0.43
26	859.76	1.17	26	852.92	0.42
27	891.74	1.10	27	885.03	0.43
28	924.13	1.13	28	917.22	0.43
29	956.21	0.97	29	949.26	0.34
30	988.39	1.15	30	981.21	0.26
31	1020.47	1.08	31	1013.82	0.39
32	1052.78	1.17	32	1045.96	0.42
33	1084.75	0.93	33	1078.07	0.45
34	1117.00	1.09	34	1110.25	0.39
35	1149.19	1.10	35	1142.23	0.32
36	1181.46	1.22	36	1174.59	0.43
37	1213.68	1.07	37	1206.78	0.46
38	1245.81	1.08	38	1238.99	0.30
39	1278.18	1.17	39	1271.13	0.44
40	1310.41	0.99	40	1303.23	0.33
41	1342.46	1.09	41	1335.21	0.26
42	1374.92	1.16	42	1367.83	0.39
43	1407.08	1.11	43	1400.02	0.42
44	1439.34	1.05	44	1432.09	0.30
45	1471.73	1.01	45	1464.40	0.44
46	1503.85	1.14	46	1496.68	0.41
47	1536.13	1.18	47	1528.94	0.41
48	1568.66	1.21	48	1561.21	0.38
49	1600.82	1.28	49	1593.24	0.29
50	1633.26	1.10	50	1625.95	0.30
51	1665.69	1.20	51	1658.24	0.37
52	1698.24	1.20	52	1690.77	0.42
53	1730.66	1.04	53	1723.15	0.43
54	1763.18	1.26	54	1755.79	0.38
55	1795.88	1.14	55	1788.12	0.28
56	1828.35	1.24	56	1820.81	0.42
57	1861.13	1.16	57	1853.24	0.32
58	1893.61	1.23	58	1886.03	0.30
59	1926.36	1.11	59	1918.74	0.41
60	1958.96	1.26	60	1951.39	0.44
61	1991.67	1.22	61	1984.03	0.45
62	2024.68	1.14	62	2016.94	0.44


020_2003-06-28T06-48 PHA#4 High-gain ADC cal
63 peaks found (below chan 2047)
200
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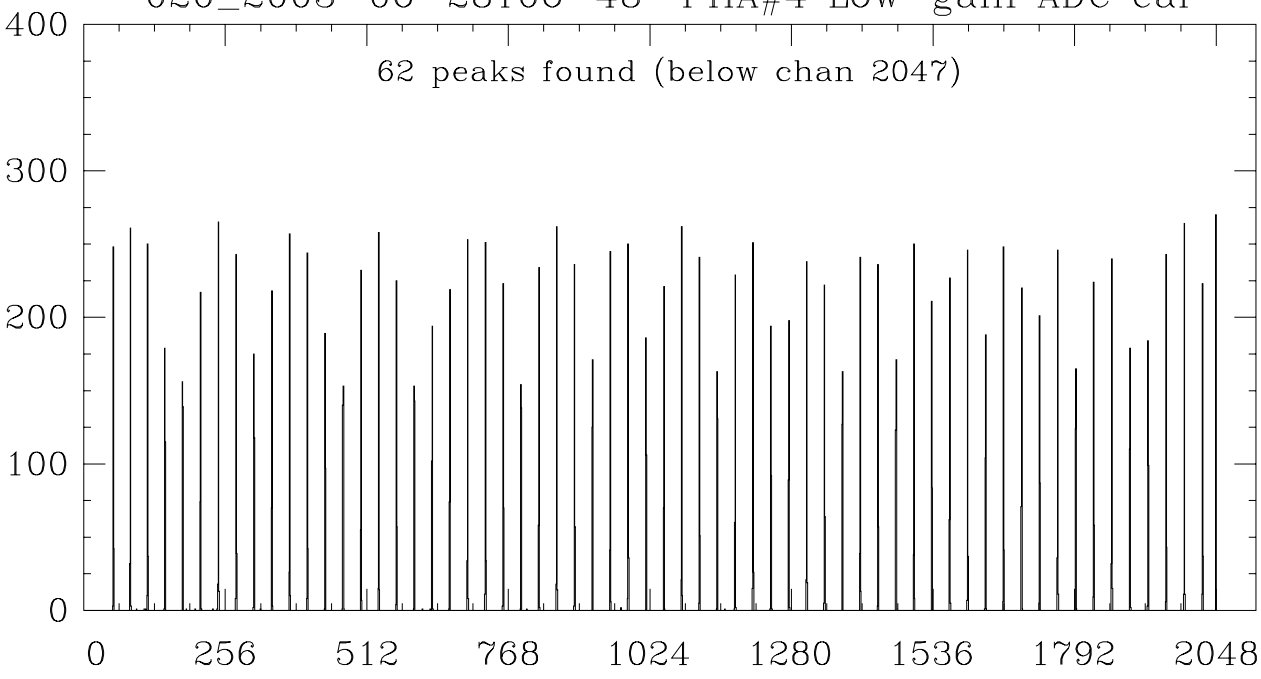
020_2003-06-28T06-48 PHA#4 Low-gain ADC cal
62 peaks found (below chan 2047)
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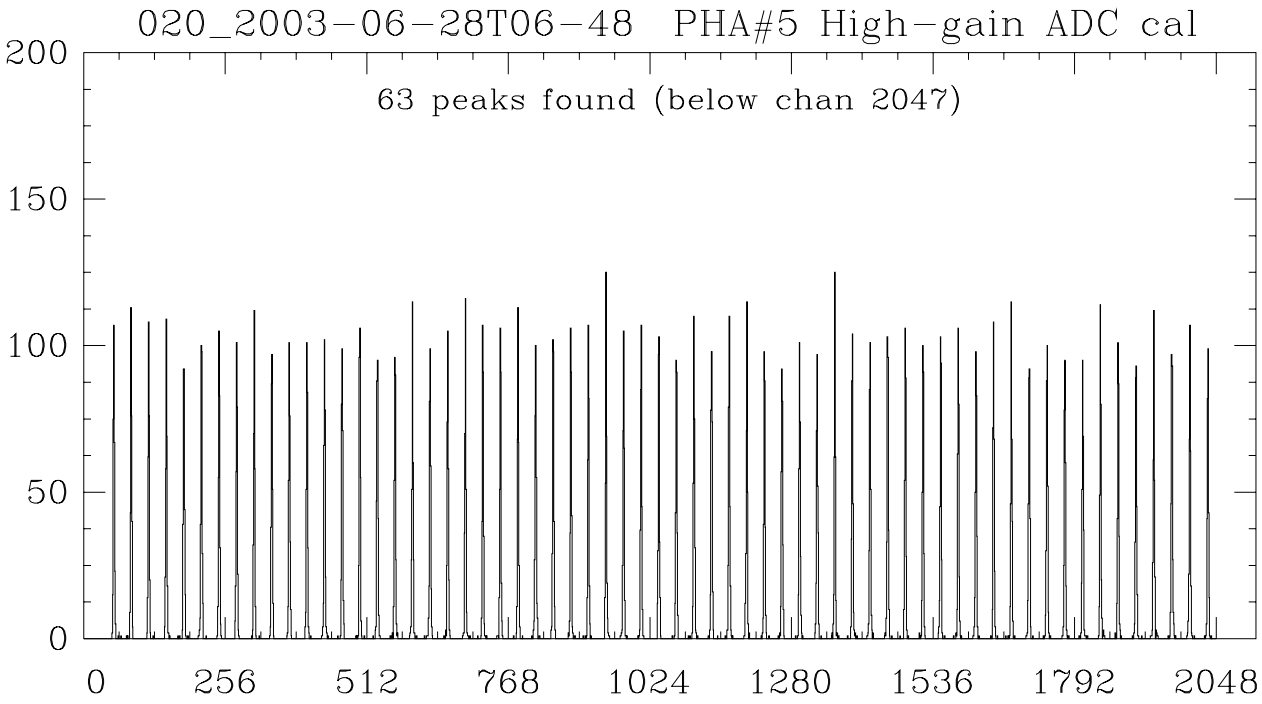
020_2003-06-28T06-48 PHA#4 ADC Calibration analysis

HIGH-GAIN			LOW-GAIN		
peak#	Mean	Sigma	peak#	Mean	Sigma
1	51.76	0.89	1	53.71	0.40
2	83.54	1.11	2	84.24	0.34
3	115.17	1.10	3	115.63	0.44
4	147.26	1.13	4	146.92	0.42
5	179.25	1.15	5	178.99	0.30
6	211.12	1.05	6	211.17	0.39
7	243.18	1.13	7	243.24	0.30
8	275.25	1.13	8	275.65	0.44
9	306.90	1.01	9	307.92	0.45
10	338.86	1.10	10	340.21	0.43
11	370.98	1.03	11	372.24	0.32
12	402.89	1.08	12	404.66	0.44
13	434.87	1.18	13	436.89	0.41
14	466.67	1.06	14	469.02	0.45
15	498.63	1.06	15	501.29	0.45
16	530.66	1.10	16	533.19	0.26
17	562.50	0.98	17	565.75	0.43
18	594.51	1.00	18	597.99	0.42
19	626.37	1.13	19	630.11	0.41
20	658.30	1.19	20	662.11	0.32
21	690.20	1.21	21	694.37	0.43
22	722.17	1.21	22	726.61	0.44
23	753.99	1.13	23	758.79	0.43
24	786.13	1.02	24	790.98	0.42
25	817.87	1.06	25	823.23	0.40
26	850.07	1.07	26	855.20	0.27
27	881.96	1.09	27	887.75	0.42
28	914.02	0.99	28	920.03	0.30
29	945.87	1.20	29	952.33	0.43
30	977.85	1.16	30	984.64	0.43
31	1009.88	1.03	31	1016.95	0.29
32	1041.77	1.08	32	1049.18	0.39
33	1073.77	1.04	33	1081.20	0.28
34	1105.64	1.15	34	1113.71	0.43
35	1137.54	1.13	35	1145.96	0.42
36	1169.64	0.98	36	1178.22	0.41
37	1201.57	1.15	37	1210.55	0.44
38	1233.51	1.09	38	1242.87	0.41
39	1265.55	1.07	39	1275.15	0.43
40	1297.51	1.24	40	1307.49	0.45
41	1329.45	1.16	41	1339.75	0.45
42	1361.42	0.99	42	1372.02	0.30
43	1393.33	1.13	43	1404.38	0.46
44	1425.42	0.98	44	1436.75	0.42
45	1457.40	1.18	45	1469.06	0.42
46	1489.48	1.12	46	1501.35	0.43
47	1521.45	1.06	47	1533.92	0.29
48	1553.53	1.03	48	1566.25	0.44
49	1585.62	1.16	49	1598.65	0.43
50	1617.82	1.22	50	1631.10	0.42
51	1650.01	1.24	51	1663.67	0.43
52	1682.24	1.23	52	1696.17	0.39
53	1714.67	1.17	53	1728.82	0.47
54	1746.88	1.19	54	1761.38	0.45
55	1779.38	1.14	55	1794.05	0.42
56	1811.69	1.18	56	1826.70	0.47
57	1843.71	1.02	57	1859.42	0.46
58	1876.21	1.08	58	1892.10	0.45
59	1908.78	1.18	59	1924.87	0.46
60	1941.03	1.19	60	1957.68	0.43
61	1973.54	1.06	61	1990.17	0.23
62	2006.13	1.30	62	2023.63	0.46
63	2038.90	1.07			


020_2003-06-28T06-48 PHA#5 High-gain ADC cal
63 peaks found (below chan 2047)
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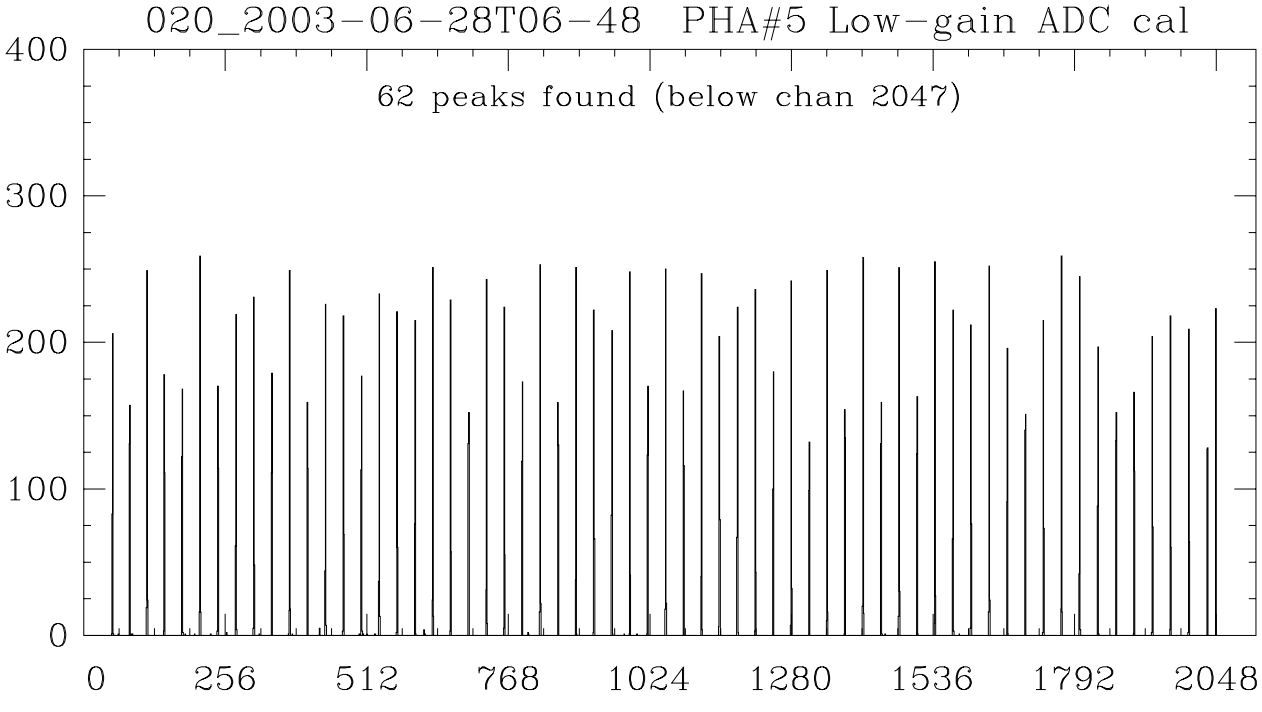
020_2003-06-28T06-48 PHA#5 Low-gain ADC cal
62 peaks found (below chan 2047)
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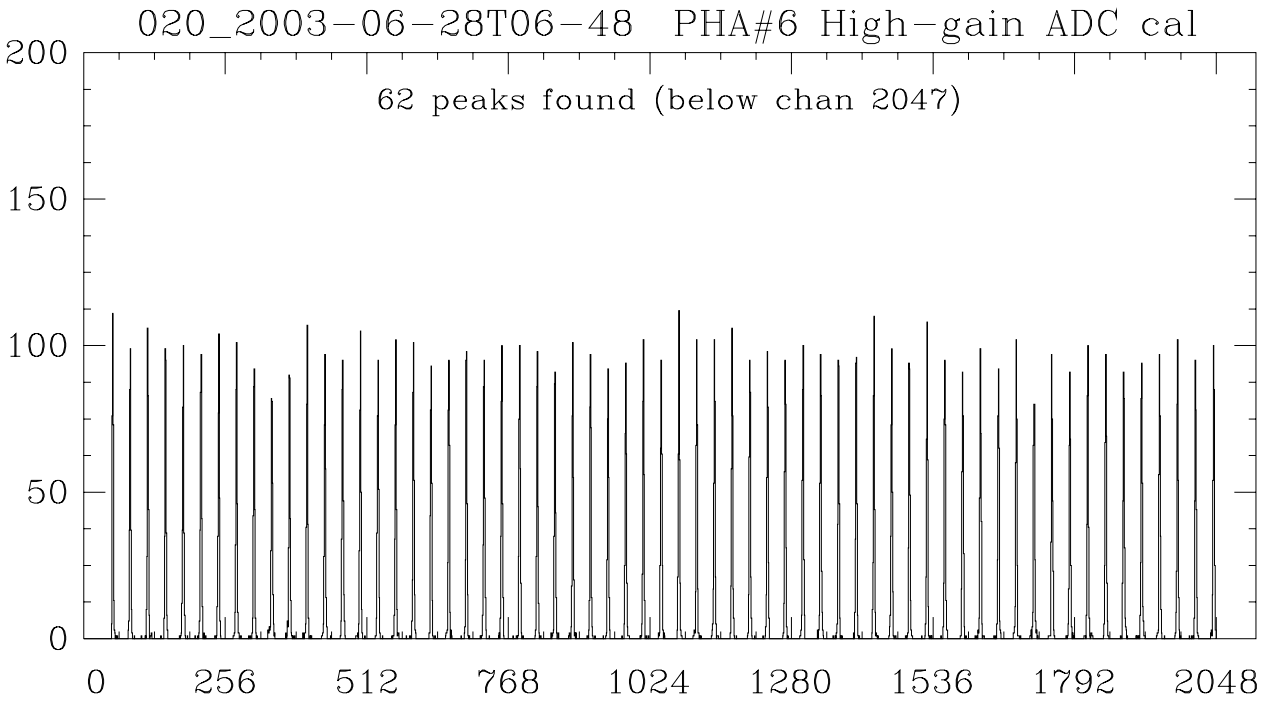
020_2003-06-28T06-48 PHA#5 ADC Calibration analysis

HIGH-GAIN			LOW-GAIN		
peak#	Mean	Sigma	peak#	Mean	Sigma
1	54.48	1.09	1	52.15	0.40
2	85.81	1.04	2	83.02	0.30
3	117.61	1.04	3	114.52	0.45
4	149.56	1.03	4	145.90	0.47
5	181.06	1.13	5	178.07	0.45
6	212.95	0.99	6	210.20	0.27
7	244.75	1.09	7	242.91	0.47
8	276.66	1.10	8	275.24	0.44
9	308.36	1.05	9	307.71	0.43
10	340.14	1.14	10	340.04	0.29
11	371.75	1.13	11	372.24	0.30
12	403.80	1.08	12	404.97	0.30
13	435.61	1.09	13	437.32	0.44
14	467.42	1.11	14	469.79	0.43
15	499.19	1.02	15	502.10	0.47
16	531.00	1.13	16	534.39	0.46
17	562.81	1.09	17	566.78	0.41
18	594.56	1.04	18	599.16	0.39
19	626.35	1.09	19	631.24	0.32
20	658.38	1.10	20	663.76	0.42
21	690.30	1.02	21	696.01	0.30
22	721.90	1.01	22	728.38	0.43
23	753.77	1.01	23	760.73	0.44
24	785.54	1.03	24	793.03	0.30
25	817.30	1.10	25	825.24	0.30
26	849.04	0.99	26	857.98	0.30
27	880.96	1.03	27	890.25	0.37
28	912.65	1.04	28	922.80	0.41
29	944.60	0.89	29	955.15	0.40
30	976.42	1.08	30	987.72	0.42
31	1008.15	1.06	31	1020.05	0.39
32	1040.04	0.97	32	1052.26	0.32
33	1071.93	1.10	33	1084.97	0.30
34	1103.71	1.05	34	1117.31	0.41
35	1135.48	1.11	35	1149.79	0.47
36	1167.26	1.00	36	1182.20	0.41
37	1199.31	0.97	37	1214.72	0.41
38	1230.95	1.07	38	1247.05	0.29
39	1262.78	1.18	39	1279.64	0.42
40	1294.67	1.13	40	1312.03	0.30
41	1326.45	1.22	41	1344.20	0.25
42	1358.50	0.88	42	1376.98	0.42
43	1390.14	1.05	43	1409.23	0.30
44	1422.20	1.07	44	1442.04	0.43
45	1453.99	1.00	45	1474.58	0.44
46	1485.78	1.05	46	1507.05	0.42
47	1517.83	1.07	47	1539.23	0.26
48	1549.86	1.01	48	1572.22	0.43
49	1581.65	1.05	49	1604.79	0.46
50	1613.82	1.14	50	1637.54	0.44
51	1645.52	1.05	51	1670.13	0.41
52	1677.74	1.05	52	1703.01	0.41
53	1709.96	1.16	53	1735.81	0.42
54	1742.18	1.09	54	1768.21	0.28
55	1774.34	1.16	55	1801.30	0.41
56	1806.73	1.21	56	1834.13	0.40
57	1838.71	0.95	57	1867.01	0.30
58	1870.89	1.06	58	1899.93	0.42
59	1903.11	1.11	59	1932.82	0.42
60	1935.44	1.02	60	1965.76	0.43
61	1967.88	1.04	61	1998.80	0.41
62	2000.46	1.08	62	2032.00	0.31
63	2033.11	1.14			


020_2003-06-28T06-48 PHA#6 High-gain ADC cal
62 peaks found (below chan 2047)
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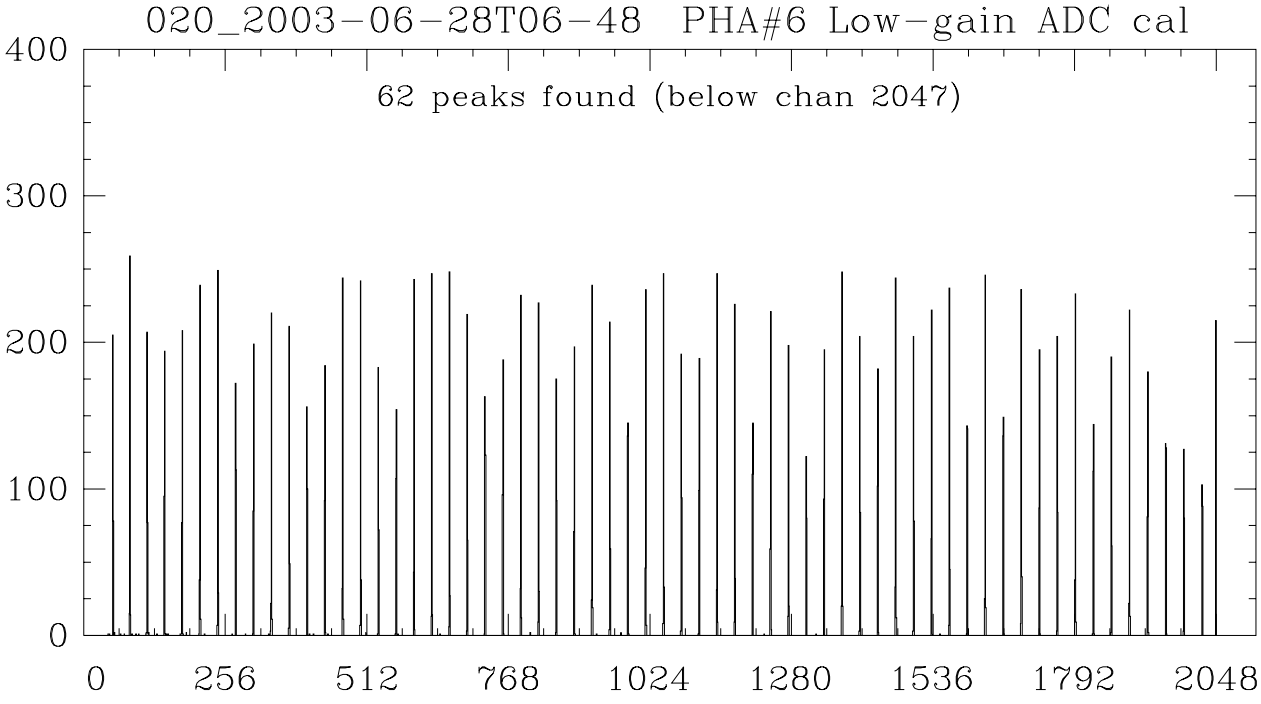
020_2003-06-28T06-48 PHA#6 Low-gain ADC cal
62 peaks found (below chan 2047)
400
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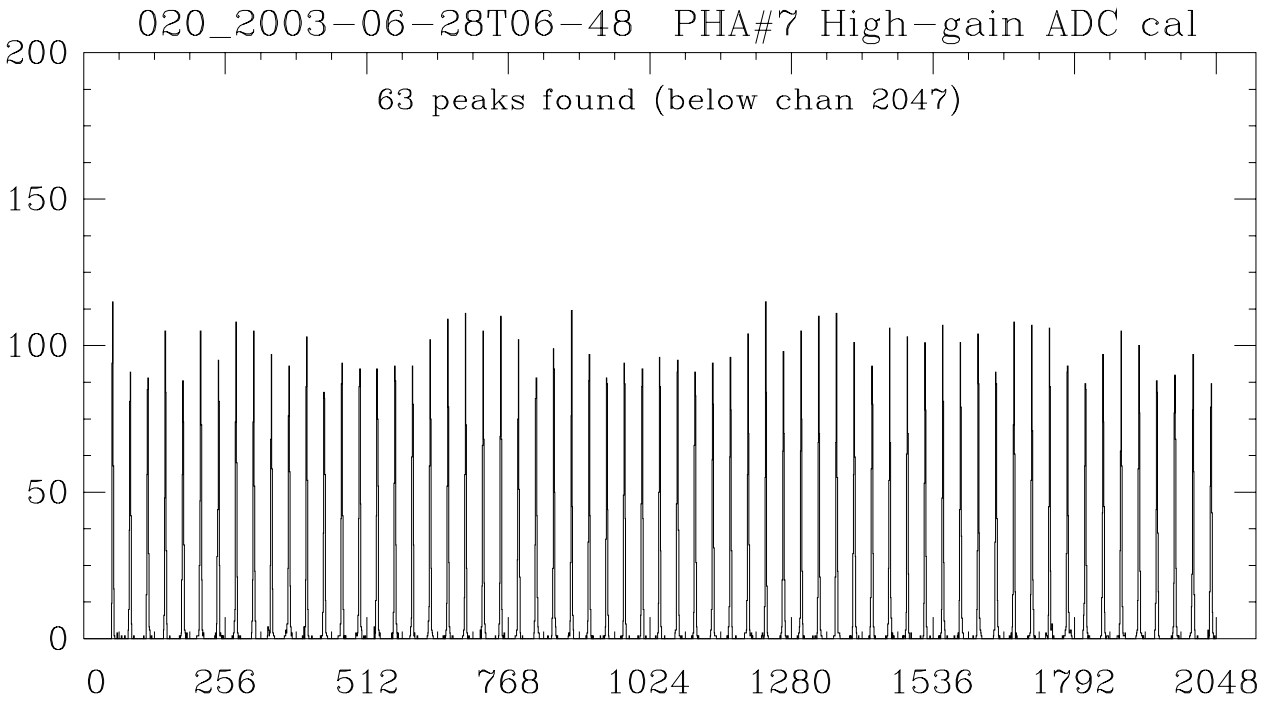
020_2003-06-28T06-48 PHA#6 ADC Calibration analysis

HIGH-GAIN			LOW-GAIN		
peak#	Mean	Sigma	peak#	Mean	Sigma
1	52.50	0.99	1	52.92	0.29
2	84.07	1.06	2	83.20	0.26
3	115.98	1.04	3	114.82	0.42
4	147.99	1.01	4	146.12	0.41
5	180.09	1.07	5	178.16	0.40
6	212.09	1.09	6	210.37	0.45
7	244.19	1.08	7	242.62	0.42
8	276.15	1.07	8	274.94	0.37
9	308.04	1.14	9	307.10	0.34
10	340.20	1.21	10	339.43	0.43
11	372.07	1.08	11	371.72	0.44
12	404.13	1.03	12	403.96	0.30
13	436.33	1.14	13	436.13	0.44
14	468.15	1.14	14	468.40	0.44
15	500.25	1.05	15	500.66	0.43
16	532.21	1.18	16	532.85	0.40
17	564.21	1.08	17	565.06	0.39
18	596.28	1.06	18	597.30	0.41
19	628.17	1.21	19	629.20	0.26
20	660.35	1.13	20	661.24	0.25
21	692.13	1.05	21	693.78	0.43
22	724.15	1.13	22	725.95	0.42
23	756.17	1.12	23	758.11	0.41
24	788.35	1.14	24	790.40	0.45
25	820.16	1.05	25	822.61	0.44
26	852.09	1.11	26	854.87	0.44
27	884.36	1.07	27	887.16	0.40
28	916.46	1.10	28	919.48	0.46
29	948.30	1.14	29	951.76	0.44
30	980.42	1.18	30	984.01	0.42
31	1012.30	1.06	31	1016.32	0.44
32	1044.49	1.20	32	1048.63	0.43
33	1076.48	1.02	33	1080.85	0.45
34	1108.55	1.07	34	1113.08	0.36
35	1140.70	1.06	35	1145.39	0.43
36	1172.62	1.05	36	1177.65	0.45
37	1204.68	1.13	37	1210.02	0.30
38	1236.71	1.12	38	1242.25	0.43
39	1268.74	1.15	39	1274.54	0.45
40	1300.91	1.11	40	1306.94	0.37
41	1332.76	1.06	41	1339.06	0.29
42	1365.04	1.10	42	1371.26	0.32
43	1397.08	1.08	43	1403.83	0.44
44	1429.21	0.98	44	1436.11	0.44
45	1461.24	1.17	45	1468.40	0.45
46	1493.12	1.10	46	1500.81	0.44
47	1525.42	1.01	47	1533.18	0.39
48	1557.46	1.13	48	1565.68	0.44
49	1589.70	1.18	49	1598.00	0.42
50	1621.80	1.13	50	1630.47	0.45
51	1654.33	1.14	51	1663.02	0.42
52	1686.65	1.08	52	1695.66	0.44
53	1718.70	1.22	53	1728.13	0.41
54	1751.06	1.20	54	1760.83	0.44
55	1783.55	1.19	55	1793.36	0.44
56	1816.07	1.07	56	1826.05	0.45
57	1848.49	1.18	57	1858.80	0.42
58	1880.82	1.17	58	1891.28	0.35
59	1913.23	1.11	59	1924.15	0.43
60	1945.78	1.14	60	1957.00	0.42
61	1978.29	1.07	61	1989.89	0.48
62	2010.92	1.21	62	2022.99	0.30


020_2003-06-28T06-48 PHA#7 High-gain ADC cal
63 peaks found (below chan 2047)
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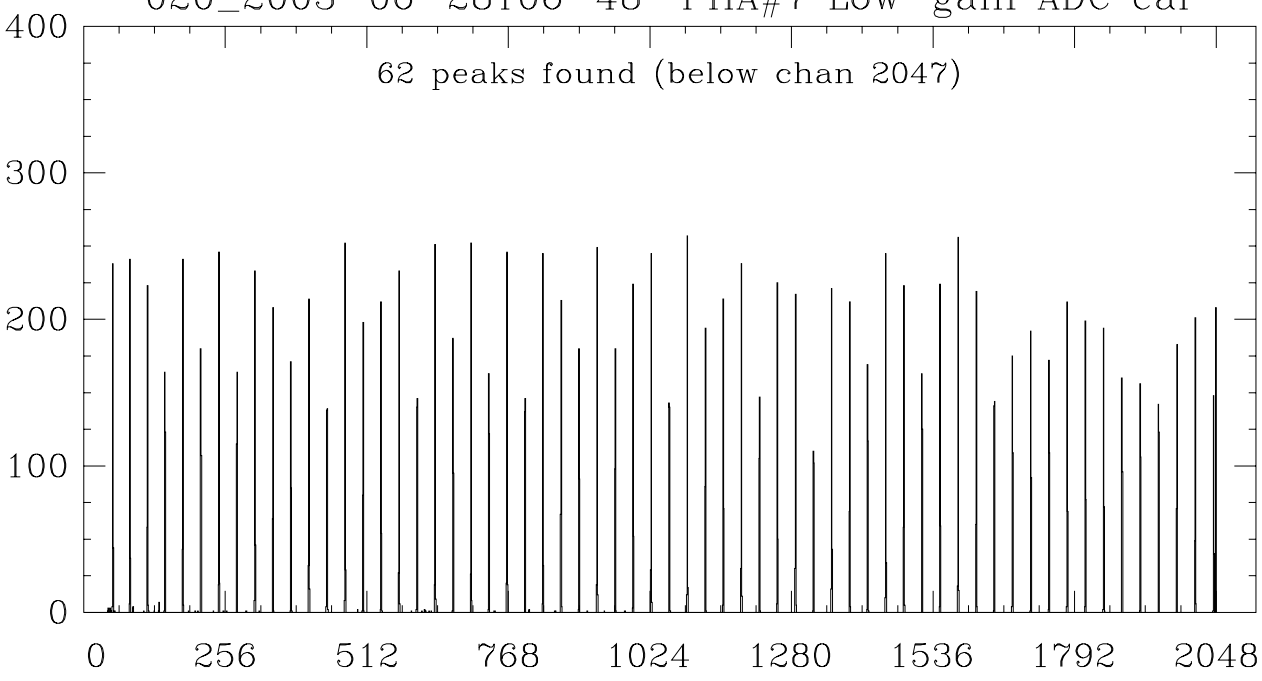
020_2003-06-28T06-48 PHA#7 Low-gain ADC cal
62 peaks found (below chan 2047)
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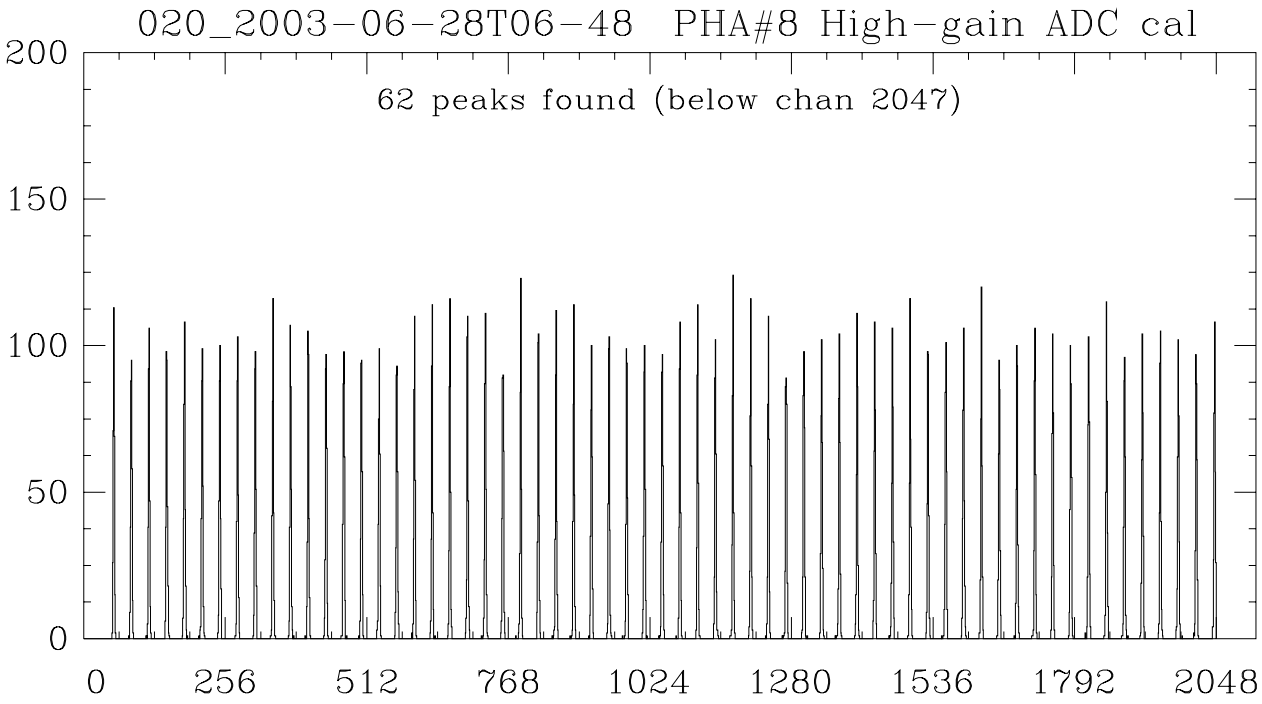
020_2003-06-28T06-48 PHA#7 ADC Calibration analysis

HIGH-GAIN			LOW-GAIN		
peak#	Mean	Sigma	peak#	Mean	Sigma
1	52.31	0.98	1	52.71	0.42
2	84.07	1.12	2	83.66	0.42
3	115.81	1.18	3	115.26	0.44
4	147.80	1.04	4	146.95	0.42
5	179.70	1.24	5	179.31	0.42
6	211.66	1.04	6	211.96	0.29
7	243.75	1.13	7	244.23	0.30
8	275.44	1.02	8	277.03	0.30
9	307.36	1.07	9	309.68	0.45
10	339.40	1.12	10	342.18	0.39
11	371.34	1.16	11	374.88	0.42
12	403.26	1.02	12	407.42	0.47
13	435.15	1.26	13	440.00	0.51
14	467.05	1.12	14	472.61	0.42
15	499.05	1.14	15	505.15	0.40
16	530.96	1.23	16	537.77	0.41
17	562.84	1.12	17	570.24	0.33
18	594.73	1.15	18	603.01	0.45
19	626.65	1.07	19	635.19	0.27
20	658.71	1.03	20	667.89	0.41
21	690.64	1.02	21	700.24	0.33
22	722.52	1.08	22	732.94	0.45
23	754.47	1.01	23	765.24	0.31
24	786.31	1.11	24	798.01	0.30
25	818.12	1.12	25	830.65	0.42
26	850.11	1.05	26	863.23	0.44
27	882.26	0.96	27	895.87	0.44
28	914.10	1.06	28	928.21	0.28
29	946.06	1.10	29	961.10	0.41
30	977.92	1.14	30	993.75	0.42
31	1010.00	1.17	31	1026.23	0.33
32	1041.82	1.10	32	1059.00	0.42
33	1073.97	1.09	33	1091.20	0.26
34	1105.69	1.15	34	1124.13	0.41
35	1137.72	1.15	35	1156.77	0.45
36	1169.69	1.15	36	1189.40	0.44
37	1201.67	1.10	37	1222.06	0.43
38	1233.69	0.96	38	1254.71	0.44
39	1265.54	1.14	39	1287.34	0.42
40	1297.62	1.05	40	1319.99	0.44
41	1329.54	1.04	41	1352.62	0.48
42	1361.43	1.03	42	1385.22	0.44
43	1393.54	1.20	43	1417.92	0.46
44	1425.72	1.16	44	1450.62	0.44
45	1457.56	1.03	45	1483.26	0.44
46	1489.59	1.05	46	1515.98	0.30
47	1521.73	1.08	47	1548.75	0.43
48	1553.76	1.01	48	1581.21	0.28
49	1585.83	1.10	49	1614.24	0.43
50	1617.95	0.99	50	1647.00	0.42
51	1650.05	1.09	51	1679.89	0.48
52	1682.44	1.02	52	1712.88	0.41
53	1714.63	1.02	53	1745.91	0.45
54	1746.80	0.97	54	1778.78	0.44
55	1779.09	1.04	55	1811.80	0.45
56	1811.74	1.16	56	1844.82	0.42
57	1843.89	1.21	57	1877.95	0.30
58	1876.39	1.07	58	1910.93	0.43
59	1908.66	1.08	59	1943.99	0.30
60	1940.94	1.20	60	1977.08	0.29
61	1973.46	1.21	61	2010.29	0.45
62	2006.32	1.12	62	2043.79	0.40
63	2038.94	1.30			


020_2003-06-28T06-48 PHA#8 High-gain ADC cal
62 peaks found (below chan 2047)
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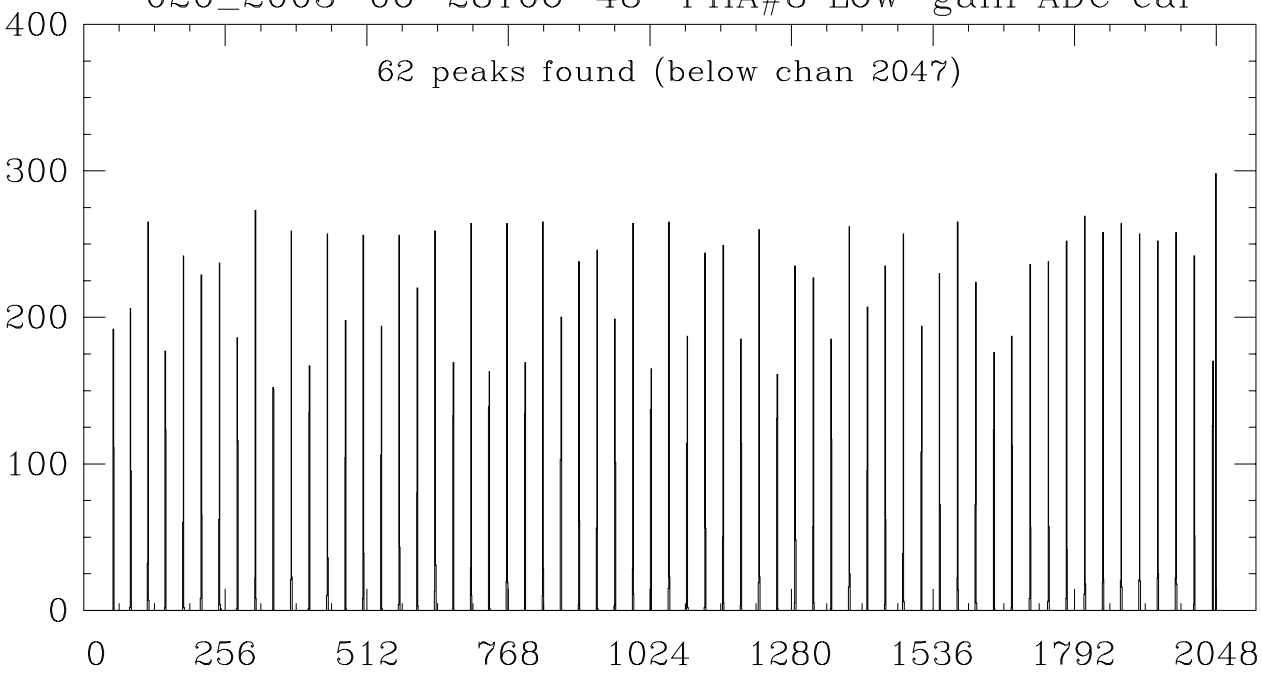
2048


020_2003-06-28T06-48 PHA#8 Low-gain ADC cal
62 peaks found (below chan 2047)
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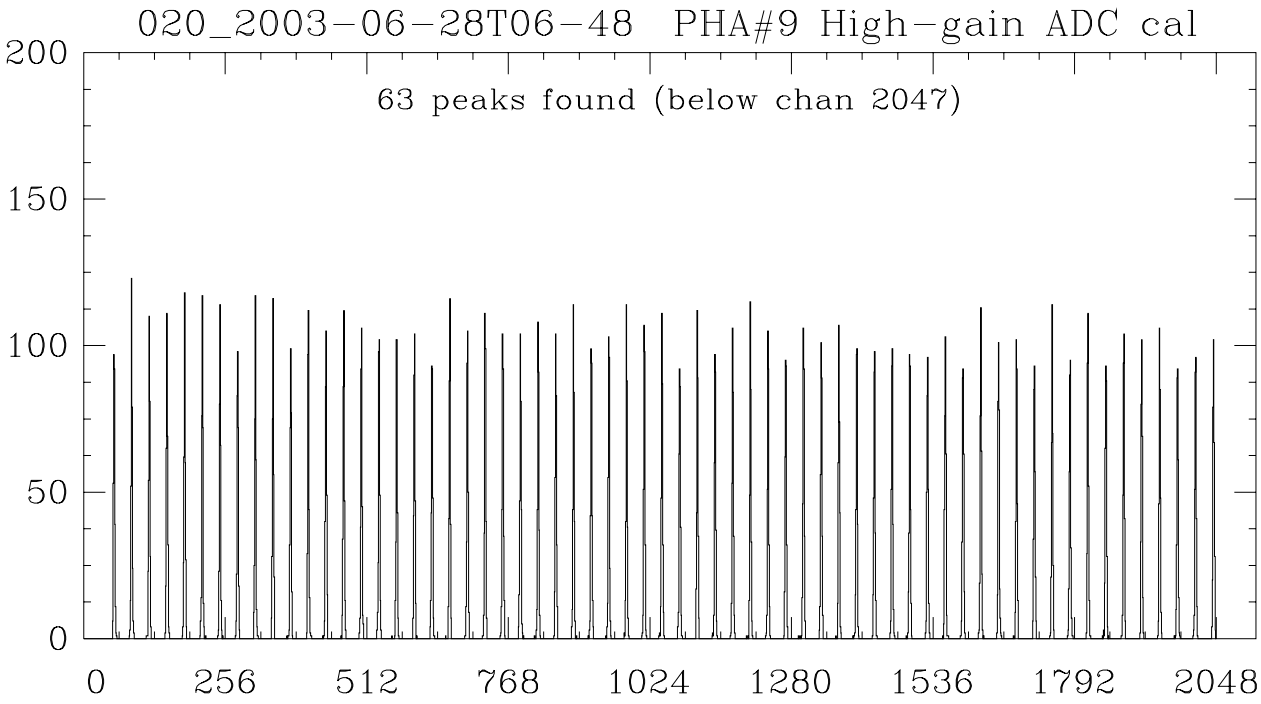
020_2003-06-28T06-48 PHA#8 ADC Calibration analysis

HIGH-GAIN			LOW-GAIN		
peak#	Mean	Sigma	peak#	Mean	Sigma
1	54.45	1.06	1	53.95	0.30
2	86.17	1.21	2	84.86	0.43
3	118.12	1.08	3	116.23	0.33
4	150.05	1.13	4	147.93	0.45
5	182.16	1.14	5	180.23	0.40
6	214.13	1.16	6	212.73	0.47
7	246.04	1.17	7	245.25	0.43
8	278.14	1.14	8	277.92	0.42
9	310.14	1.16	9	310.20	0.28
10	342.17	1.06	10	343.00	0.30
11	374.00	1.13	11	375.51	0.45
12	406.01	1.04	12	408.03	0.40
13	438.26	1.15	13	440.62	0.44
14	470.22	1.19	14	473.11	0.41
15	502.17	1.17	15	505.65	0.43
16	534.31	1.24	16	538.10	0.41
17	566.20	1.19	17	570.70	0.41
18	598.23	1.09	18	603.19	0.43
19	630.14	1.00	19	635.58	0.44
20	662.23	1.01	20	668.02	0.29
21	694.15	0.96	21	700.27	0.35
22	726.24	1.04	22	733.03	0.42
23	758.17	1.24	23	765.24	0.30
24	790.27	0.96	24	798.02	0.30
25	822.06	1.03	25	830.28	0.29
26	854.14	1.01	26	863.06	0.29
27	886.21	1.07	27	895.75	0.43
28	918.30	1.21	28	928.21	0.38
29	949.97	1.06	29	960.86	0.45
30	982.05	1.14	30	993.25	0.33
31	1014.14	1.13	31	1026.02	0.30
32	1046.21	1.16	32	1058.24	0.29
33	1078.10	1.07	33	1091.10	0.45
34	1110.22	1.03	34	1123.77	0.40
35	1142.32	1.10	35	1156.29	0.43
36	1174.23	0.95	36	1188.90	0.46
37	1206.39	1.04	37	1221.52	0.45
38	1238.41	1.08	38	1254.04	0.42
39	1270.44	1.23	39	1286.71	0.43
40	1302.43	1.17	40	1319.27	0.44
41	1334.42	1.20	41	1351.92	0.42
42	1366.42	1.12	42	1384.54	0.44
43	1398.71	1.05	43	1417.07	0.29
44	1430.65	1.11	44	1449.75	0.43
45	1462.73	1.14	45	1482.33	0.42
46	1494.68	1.09	46	1515.05	0.29
47	1526.97	1.11	47	1547.90	0.29
48	1559.19	1.17	48	1580.23	0.31
49	1591.19	1.17	49	1613.23	0.45
50	1623.41	1.00	50	1646.06	0.42
51	1655.70	1.22	51	1678.90	0.44
52	1687.86	1.11	52	1711.70	0.46
53	1720.24	1.09	53	1744.72	0.44
54	1752.56	1.15	54	1777.66	0.44
55	1785.01	1.19	55	1810.20	0.25
56	1817.51	1.15	56	1843.23	0.30
57	1849.78	1.05	57	1876.24	0.30
58	1882.19	1.18	58	1909.25	0.32
59	1914.68	1.18	59	1942.51	0.46
60	1947.04	1.07	60	1975.24	0.31
61	1979.67	1.18	61	2008.72	0.42
62	2012.20	1.22	62	2042.03	0.30


020_2003-06-28T06-48 PHA#9 High-gain ADC cal
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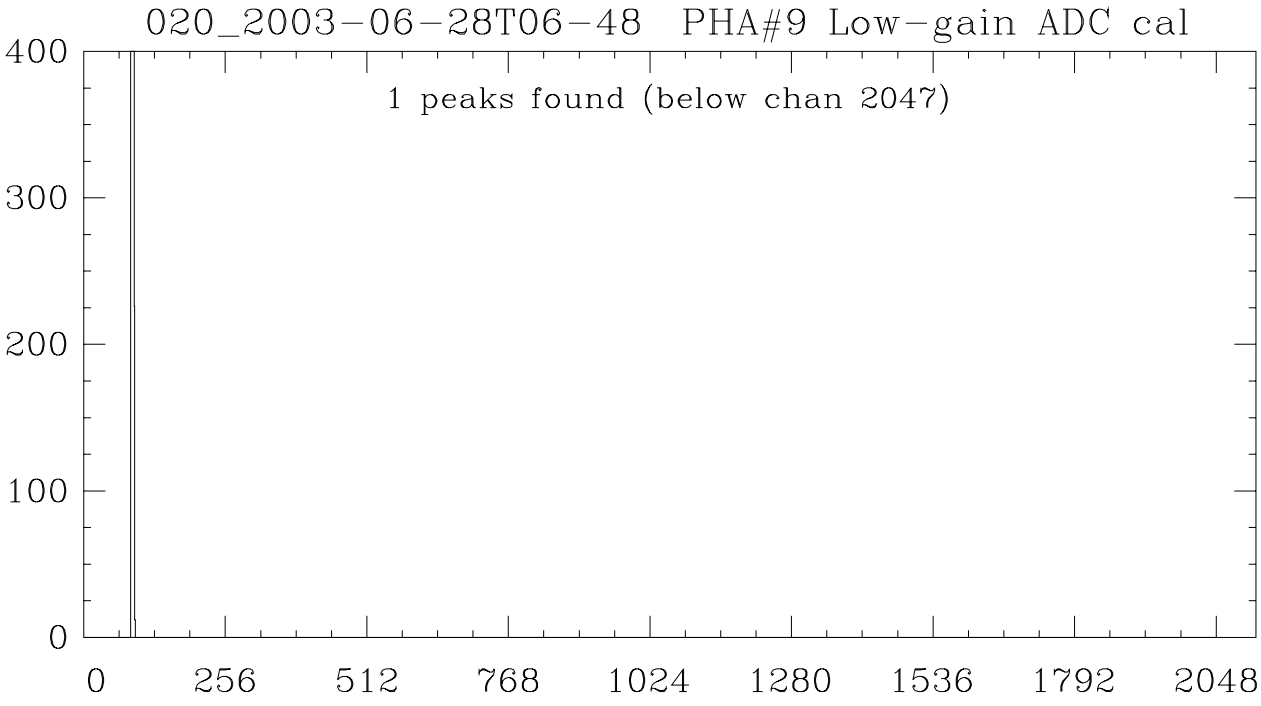
020_2003-06-28T06-48 PHA#9 Low-gain ADC cal
1 peaks found (below chan 2047)
400
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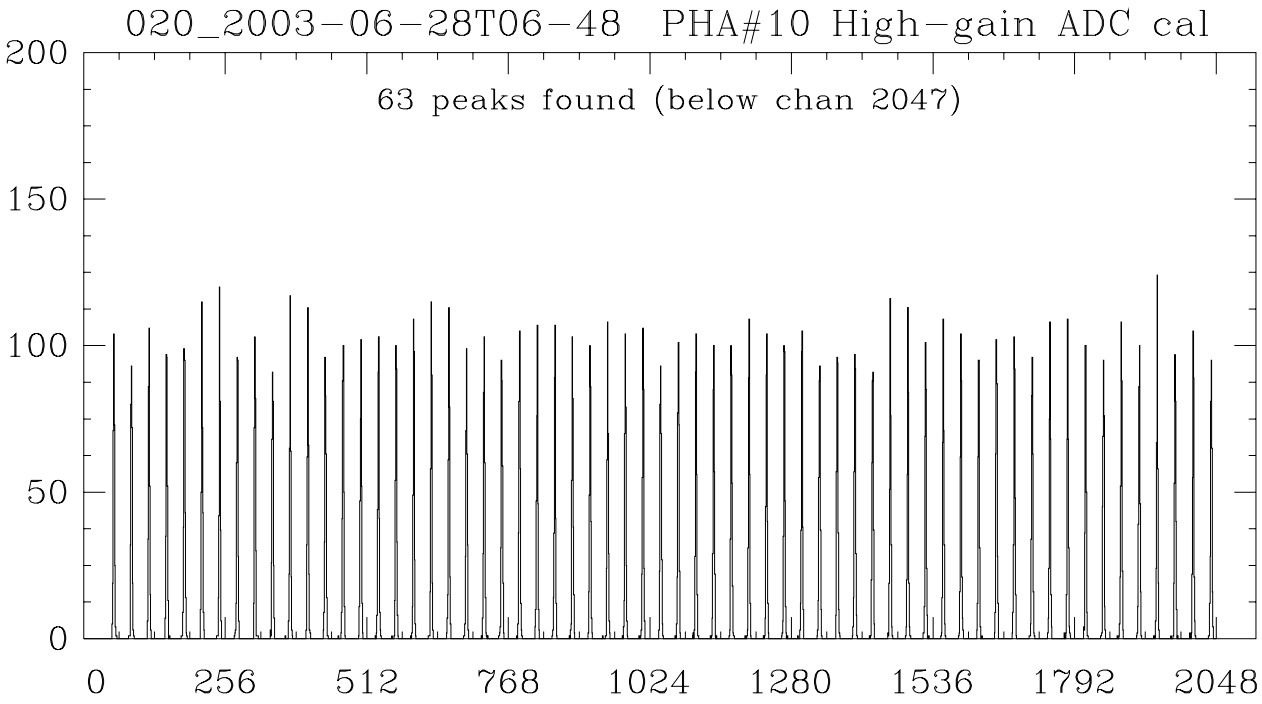
020_2003-06-28T06-48 PHA#9 ADC Calibration analysis

HIGH-GAIN			LOW-GAIN		
peak#	Mean	Sigma	peak#	Mean	Sigma
1	54.91	1.15	1	87.50	0.98
2	86.68	0.95			
3	118.69	1.10			
4	150.58	1.12			
5	182.49	1.06			
6	214.47	1.00			
7	246.39	1.05			
8	278.41	1.17			
9	310.37	1.01			
10	342.36	1.06			
11	374.46	1.20			
12	406.14	0.99			
13	438.15	1.14			
14	470.19	1.05			
15	502.10	1.07			
16	534.14	1.05			
17	566.04	1.03			
18	598.10	1.13			
19	630.01	1.18			
20	662.10	1.03			
21	694.13	1.08			
22	725.97	1.00			
23	757.90	1.08			
24	789.86	1.17			
25	821.89	1.06			
26	853.76	1.14			
27	885.84	1.05			
28	917.99	1.11			
29	949.80	1.06			
30	981.87	1.03			
31	1013.86	1.04			
32	1045.81	1.04			
33	1077.80	1.22			
34	1109.85	1.05			
35	1141.83	1.16			
36	1173.79	1.11			
37	1205.78	1.04			
38	1237.85	1.07			
39	1269.78	1.18			
40	1301.87	1.07			
41	1333.82	1.14			
42	1365.73	1.17			
43	1397.96	1.10			
44	1429.95	1.16			
45	1461.96	1.14			
46	1494.02	1.13			
47	1526.08	1.24			
48	1558.25	1.19			
49	1590.24	1.22			
50	1622.44	1.06			
51	1654.49	1.12			
52	1687.00	1.13			
53	1719.24	1.24			
54	1751.53	1.08			
55	1783.83	1.19			
56	1816.20	1.03			
57	1848.70	1.20			
58	1880.99	1.11			
59	1913.35	1.17			
60	1945.93	1.14			
61	1978.21	1.21			
62	2010.97	1.17			
63	2043.46	1.18			


020_2003-06-28T06-48 PHA#10 High-gain ADC cal
63 peaks found (below chan 2047)
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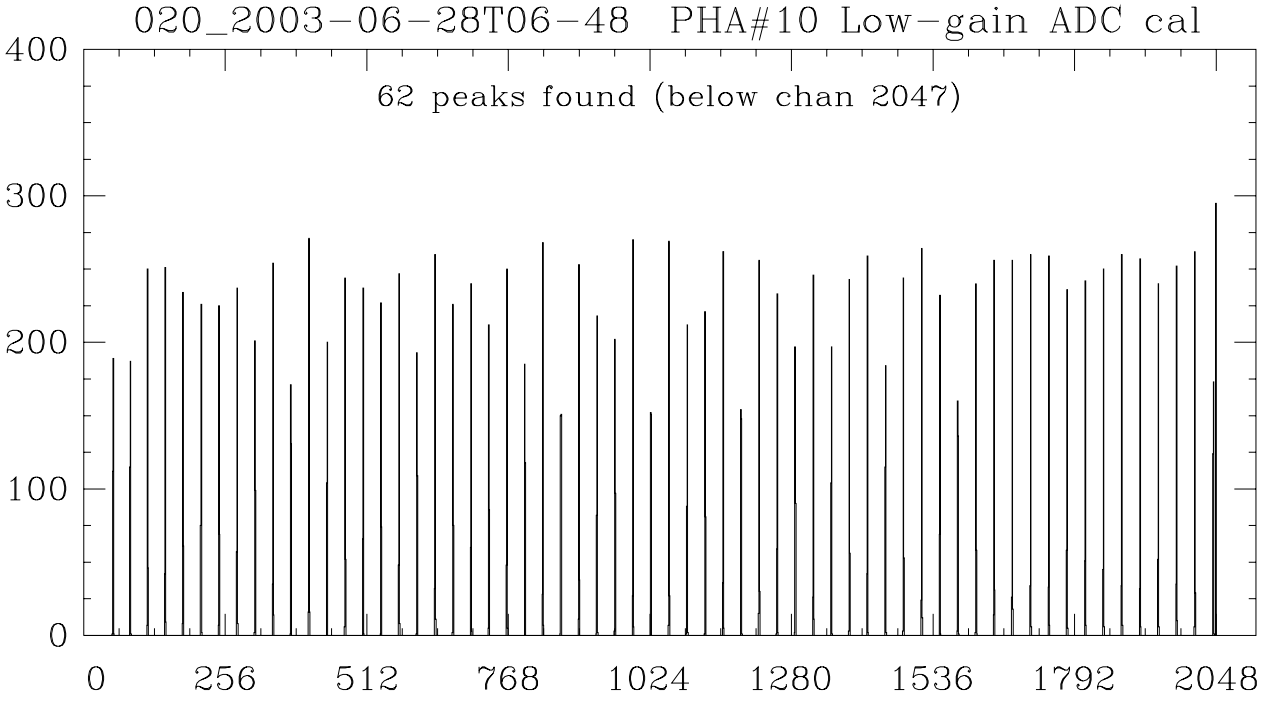
020_2003-06-28T06-48 PHA#10 Low-gain ADC cal
62 peaks found (below chan 2047)
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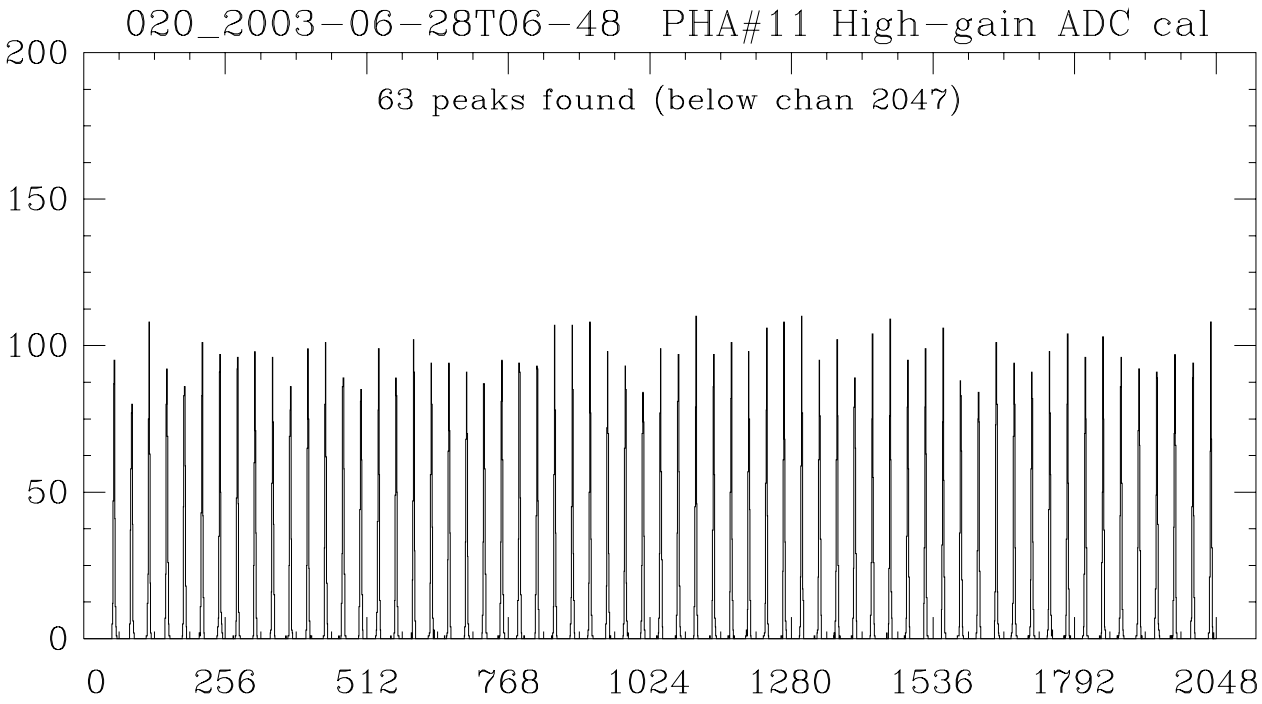
020_2003-06-28T06-48 PHA#10 ADC Calibration analysis

HIGH-GAIN			LOW-GAIN		
peak#	Mean	Sigma	peak#	Mean	Sigma
1	54.54	1.15	1	53.09	0.42
2	86.38	1.24	2	84.08	0.42
3	118.21	1.11	3	115.68	0.44
4	150.11	1.13	4	147.35	0.44
5	182.02	1.11	5	179.72	0.46
6	213.77	1.10	6	212.19	0.41
7	245.80	1.01	7	244.75	0.46
8	277.80	1.13	8	277.30	0.46
9	309.63	1.14	9	309.87	0.43
10	341.59	1.26	10	342.41	0.45
11	373.49	1.03	11	374.95	0.42
12	405.49	1.12	12	407.19	0.26
13	437.16	1.24	13	440.06	0.29
14	469.11	1.16	14	472.71	0.44
15	501.15	1.23	15	505.19	0.38
16	533.04	1.10	16	537.83	0.39
17	564.83	1.13	17	570.32	0.44
18	596.84	1.01	18	602.90	0.41
19	628.70	1.01	19	635.40	0.44
20	660.63	1.04	20	667.81	0.41
21	692.46	1.26	21	700.24	0.42
22	724.28	1.13	22	732.81	0.46
23	756.19	1.21	23	765.30	0.42
24	788.25	1.14	24	797.96	0.29
25	820.13	1.17	25	830.24	0.33
26	852.10	1.07	26	863.00	0.42
27	883.83	1.15	27	895.62	0.45
28	915.86	1.17	28	928.17	0.42
29	947.58	1.15	29	960.85	0.45
30	979.60	1.12	30	993.24	0.32
31	1011.70	1.10	31	1026.00	0.30
32	1043.46	1.24	32	1058.23	0.25
33	1075.48	1.17	33	1091.16	0.43
34	1107.23	1.09	34	1123.84	0.40
35	1139.28	1.17	35	1156.33	0.41
36	1171.11	1.16	36	1188.99	0.42
37	1203.23	1.07	37	1221.57	0.45
38	1235.04	1.11	38	1254.22	0.40
39	1267.06	1.08	39	1286.85	0.43
40	1299.03	1.03	40	1319.27	0.35
41	1330.89	1.21	41	1352.11	0.41
42	1362.87	1.16	42	1384.75	0.41
43	1394.80	1.14	43	1417.27	0.39
44	1426.81	1.26	44	1450.09	0.45
45	1458.70	1.05	45	1482.74	0.41
46	1490.67	1.03	46	1515.24	0.32
47	1522.66	1.13	47	1548.18	0.39
48	1554.60	1.12	48	1580.96	0.48
49	1586.69	1.09	49	1613.77	0.40
50	1618.80	1.15	50	1646.58	0.45
51	1650.73	1.13	51	1679.46	0.45
52	1683.05	1.11	52	1712.35	0.42
53	1715.28	1.21	53	1745.36	0.42
54	1747.42	1.10	54	1778.27	0.44
55	1779.56	1.11	55	1811.31	0.44
56	1812.08	1.08	56	1844.31	0.43
57	1844.37	1.27	57	1877.36	0.42
58	1876.73	1.06	58	1910.23	0.34
59	1909.12	1.16	59	1943.29	0.44
60	1941.44	0.96	60	1976.38	0.44
61	1973.81	1.24	61	2009.24	0.25
62	2006.72	1.08	62	2043.06	0.42
63	2039.32	1.21			


020_2003-06-28T06-48 PHA#11 High-gain ADC cal
63 peaks found (below chan 2047)
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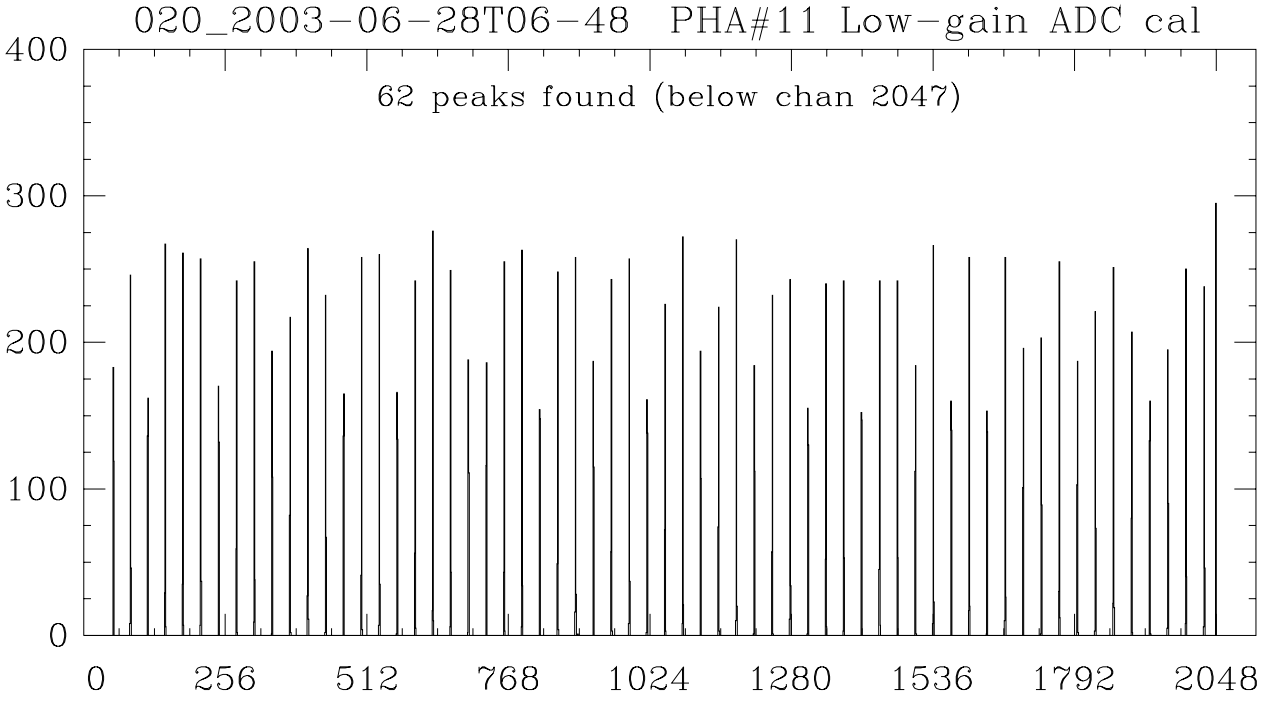
020_2003-06-28T06-48 PHA#11 Low-gain ADC cal
62 peaks found (below chan 2047)
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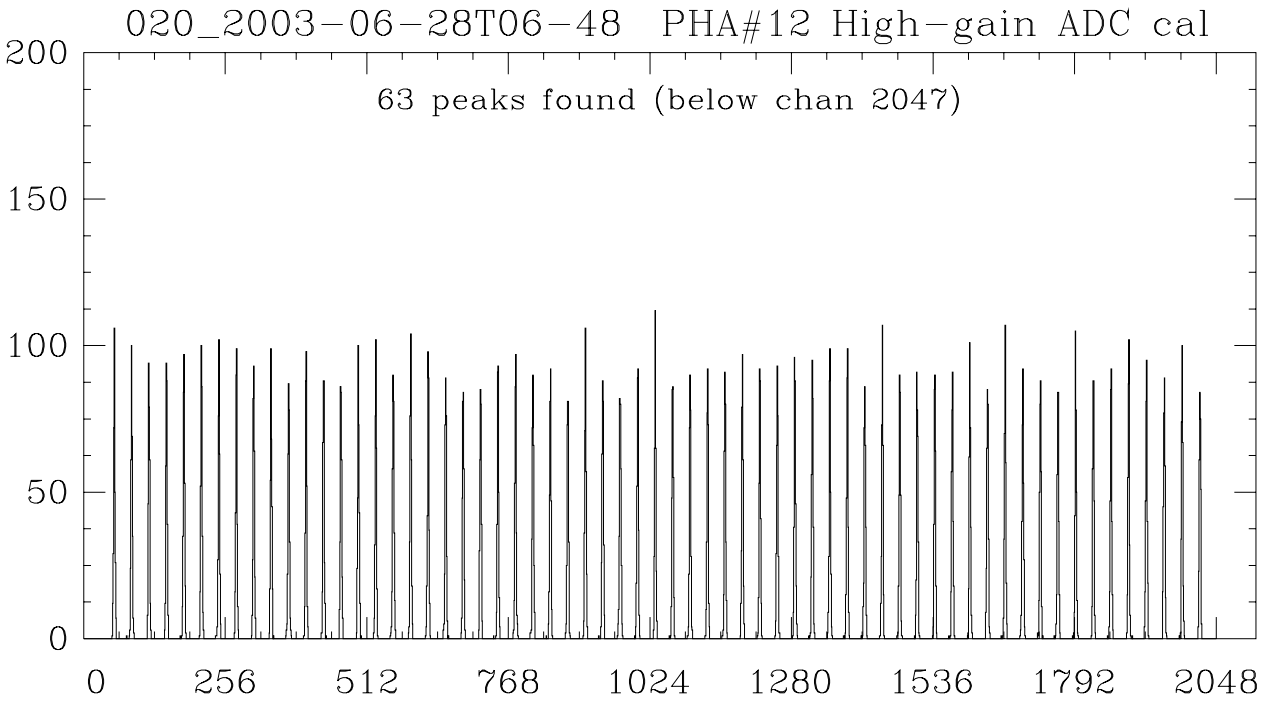
020_2003-06-28T06-48 PHA#11 ADC Calibration analysis

HIGH-GAIN			LOW-GAIN		
peak#	Mean	Sigma	peak#	Mean	Sigma
1	54.99	1.19	1	53.95	0.35
2	86.68	1.48	2	84.67	0.44
3	118.41	1.10	3	116.02	0.30
4	150.44	1.25	4	147.25	0.33
5	182.17	1.32	5	179.36	0.42
6	214.08	1.16	6	211.65	0.42
7	246.12	1.12	7	243.98	0.30
8	278.01	1.16	8	276.23	0.40
9	309.65	1.27	9	308.64	0.44
10	341.79	1.26	10	340.90	0.41
11	373.68	1.35	11	373.17	0.42
12	405.57	1.19	12	405.26	0.34
13	437.33	1.17	13	437.79	0.41
14	469.25	1.25	14	470.02	0.30
15	501.16	1.34	15	502.31	0.41
16	533.21	1.21	16	534.64	0.42
17	564.97	1.28	17	566.96	0.42
18	596.83	1.09	18	599.27	0.43
19	628.77	1.24	19	631.17	0.25
20	660.60	1.30	20	663.68	0.43
21	692.49	1.32	21	695.90	0.44
22	724.22	1.27	22	728.04	0.30
23	756.26	1.22	23	760.29	0.40
24	788.08	1.17	24	792.65	0.41
25	820.01	1.19	25	825.00	0.31
26	851.75	1.13	26	857.28	0.42
27	883.81	1.05	27	889.56	0.45
28	915.74	1.12	28	921.96	0.30
29	947.55	1.21	29	954.25	0.41
30	979.62	1.19	30	986.64	0.43
31	1011.58	1.36	31	1018.97	0.45
32	1043.35	1.22	32	1051.21	0.43
33	1075.24	1.22	33	1083.21	0.24
34	1107.13	1.13	34	1115.95	0.30
35	1139.16	1.18	35	1148.20	0.43
36	1170.97	1.19	36	1180.21	0.25
37	1202.82	1.25	37	1212.91	0.42
38	1235.03	1.18	38	1245.20	0.38
39	1266.60	1.17	39	1277.61	0.44
40	1298.61	1.06	40	1309.97	0.43
41	1330.68	1.25	41	1342.29	0.44
42	1362.61	1.16	42	1374.74	0.41
43	1394.43	1.29	43	1407.00	0.30
44	1426.36	1.16	44	1439.32	0.44
45	1458.38	1.08	45	1471.86	0.31
46	1490.28	1.25	46	1504.09	0.42
47	1522.30	1.18	47	1536.22	0.25
48	1554.31	1.16	48	1568.99	0.31
49	1586.24	1.30	49	1601.24	0.30
50	1618.44	1.33	50	1633.98	0.42
51	1650.54	1.11	51	1666.23	0.27
52	1682.66	1.20	52	1699.06	0.29
53	1714.75	1.26	53	1731.87	0.40
54	1746.98	1.25	54	1764.41	0.44
55	1779.24	1.14	55	1797.12	0.44
56	1811.57	1.23	56	1829.80	0.43
57	1843.73	1.21	57	1862.25	0.32
58	1876.12	1.19	58	1895.17	0.42
59	1908.46	1.31	59	1928.03	0.42
60	1940.89	1.20	60	1960.83	0.47
61	1973.33	1.26	61	1993.65	0.44
62	2006.02	1.17	62	2026.69	0.43
63	2038.57	1.14			


020_2003-06-28T06-48 PHA#12 High-gain ADC cal
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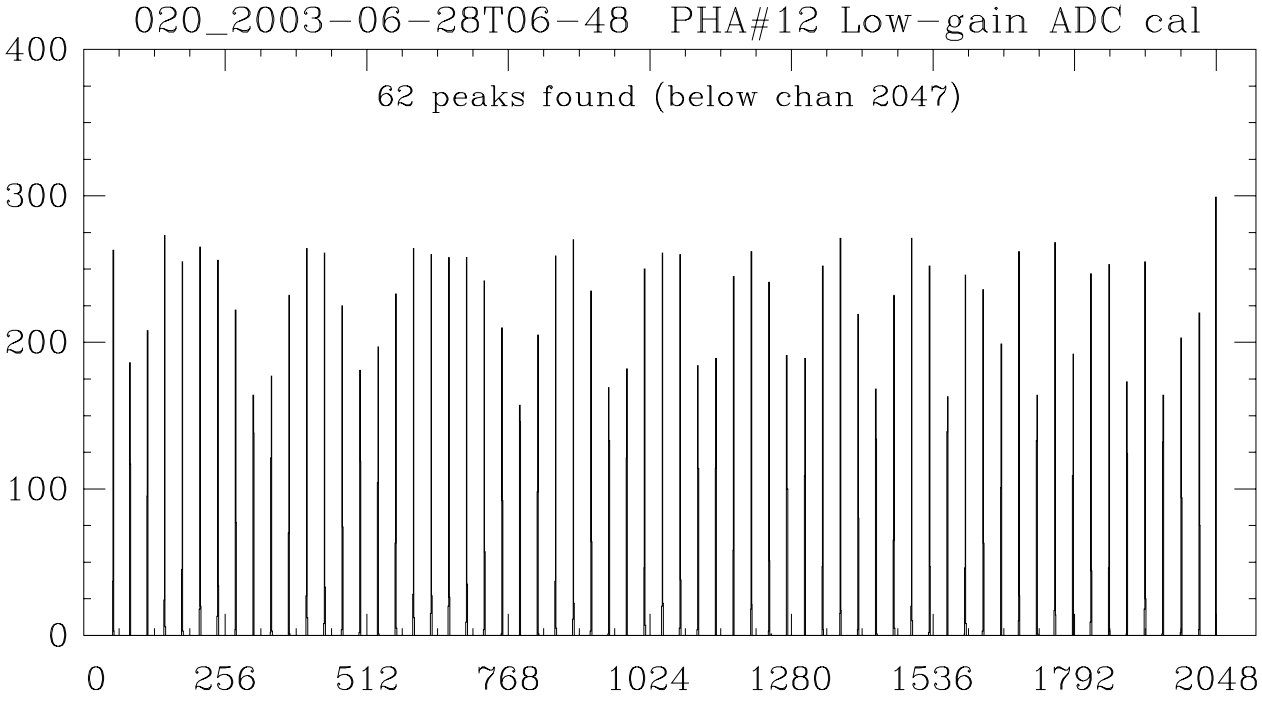
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62 peaks found (below chan 2047)
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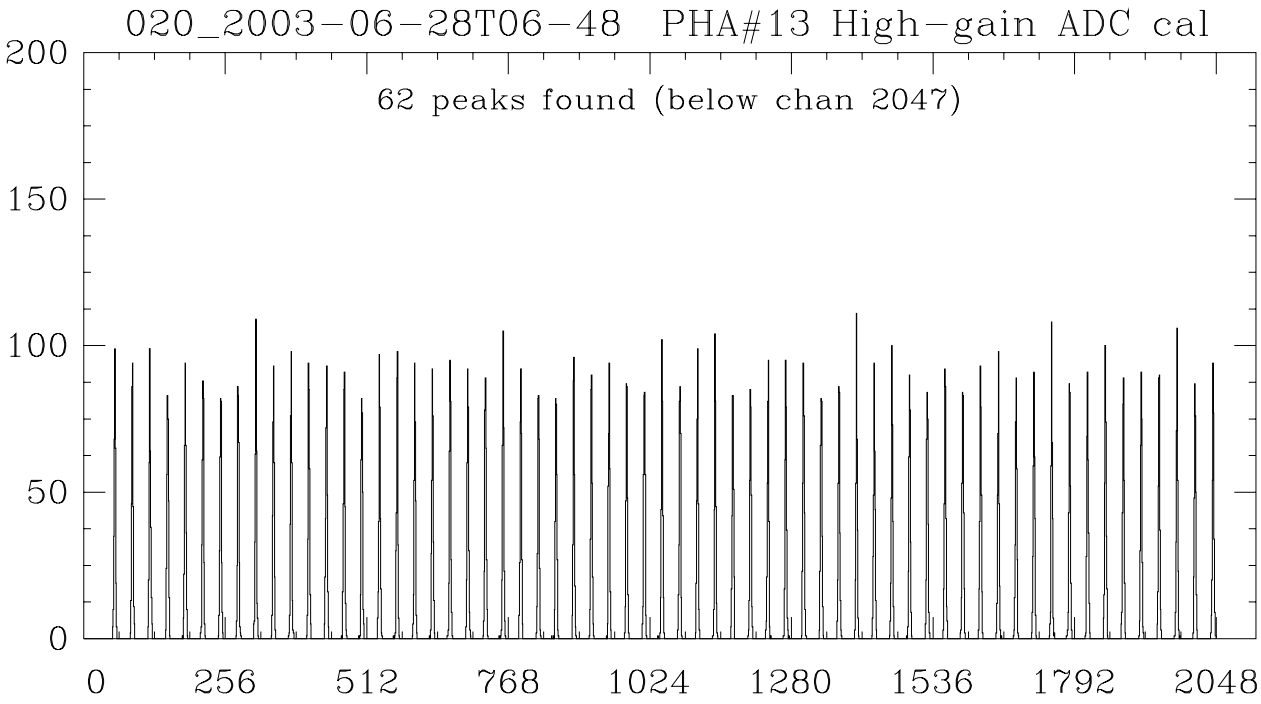
020_2003-06-28T06-48 PHA#12 ADC Calibration analysis

HIGH-GAIN			LOW-GAIN		
peak#	Mean	Sigma	peak#	Mean	Sigma
1	55.33	1.17	1	53.30	0.39
2	86.62	1.25	2	83.96	0.30
3	118.06	1.30	3	115.07	0.29
4	149.83	1.21	4	146.20	0.29
5	181.19	1.20	5	178.28	0.40
6	212.82	1.16	6	210.23	0.29
7	244.39	1.17	7	242.60	0.45
8	276.00	1.15	8	274.79	0.44
9	307.34	1.24	9	306.98	0.30
10	338.79	1.32	10	339.09	0.48
11	370.68	1.31	11	371.18	0.39
12	402.14	1.16	12	403.24	0.32
13	433.71	1.23	13	435.63	0.42
14	465.24	1.31	14	467.78	0.44
15	496.80	1.29	15	499.92	0.45
16	528.35	1.18	16	532.11	0.41
17	559.79	1.28	17	564.25	0.44
18	591.34	1.17	18	596.29	0.36
19	622.92	1.15	19	628.56	0.44
20	654.55	1.28	20	660.53	0.45
21	686.15	1.37	21	692.63	0.43
22	717.70	1.38	22	724.74	0.42
23	749.09	1.19	23	756.87	0.40
24	780.93	1.19	24	788.99	0.29
25	812.42	1.32	25	821.12	0.41
26	844.01	1.28	26	853.33	0.41
27	875.60	1.35	27	885.21	0.26
28	907.34	1.19	28	917.77	0.42
29	938.67	1.32	29	949.96	0.42
30	970.24	1.38	30	982.04	0.30
31	1001.88	1.22	31	1014.32	0.44
32	1033.48	1.11	32	1046.24	0.31
33	1065.07	1.31	33	1078.67	0.41
34	1096.57	1.26	34	1110.89	0.48
35	1128.36	1.25	35	1143.04	0.30
36	1159.72	1.26	36	1175.12	0.29
37	1191.31	1.22	37	1207.24	0.30
38	1222.90	1.24	38	1239.74	0.41
39	1254.56	1.28	39	1271.94	0.29
40	1286.04	1.18	40	1304.05	0.29
41	1317.77	1.24	41	1336.29	0.41
42	1349.21	1.14	42	1368.20	0.26
43	1380.97	1.16	43	1400.80	0.45
44	1412.57	1.37	44	1432.96	0.40
45	1444.39	1.13	45	1465.25	0.44
46	1475.93	1.27	46	1497.19	0.27
47	1507.41	1.35	47	1529.74	0.39
48	1539.24	1.27	48	1562.01	0.30
49	1570.94	1.34	49	1594.33	0.44
50	1602.68	1.23	50	1626.77	0.42
51	1634.66	1.34	51	1659.06	0.29
52	1666.37	1.17	52	1691.24	0.27
53	1698.26	1.34	53	1724.04	0.42
54	1730.08	1.33	54	1756.19	0.26
55	1761.88	1.32	55	1789.05	0.29
56	1793.94	1.19	56	1821.66	0.45
57	1825.92	1.27	57	1854.28	0.40
58	1857.98	1.25	58	1886.94	0.42
59	1889.91	1.17	59	1919.53	0.45
60	1922.02	1.27	60	1952.03	0.40
61	1954.15	1.35	61	1984.86	0.43
62	1986.38	1.21	62	2017.79	0.44
63	2018.79	1.41			


020_2003-06-28T06-48 PHA#13 High-gain ADC cal
62 peaks found (below chan 2047)
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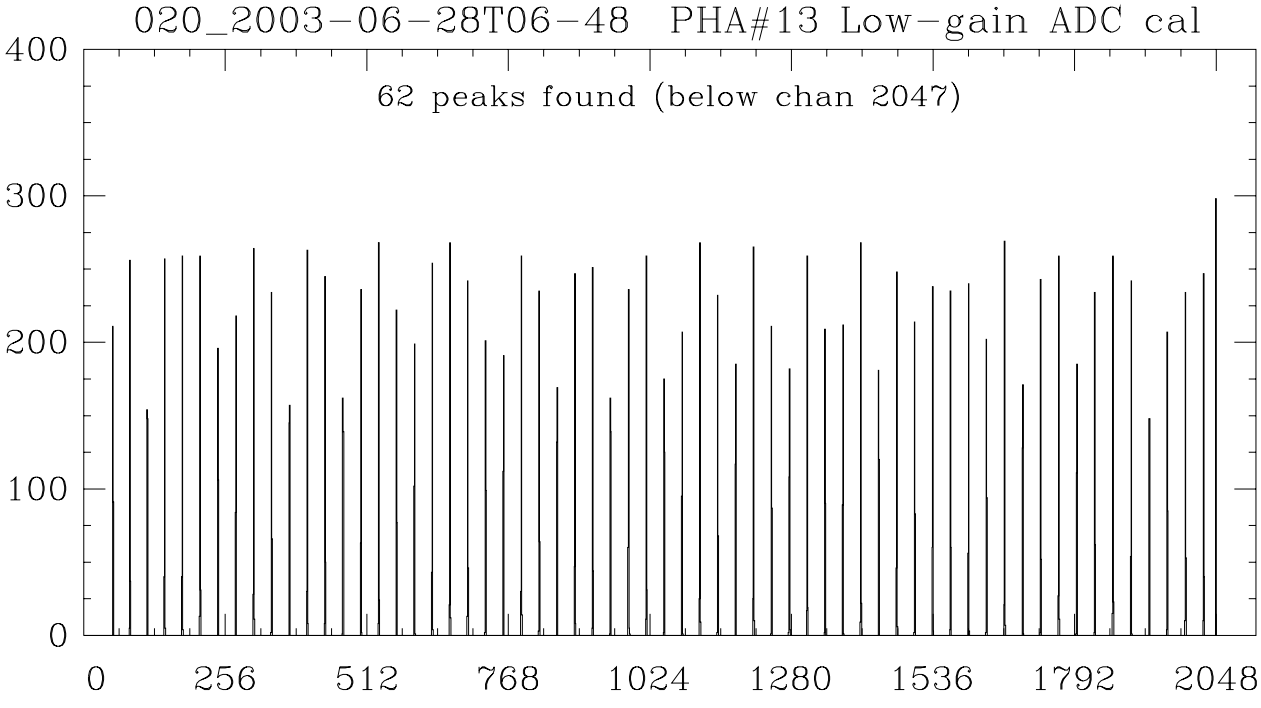
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62 peaks found (below chan 2047)
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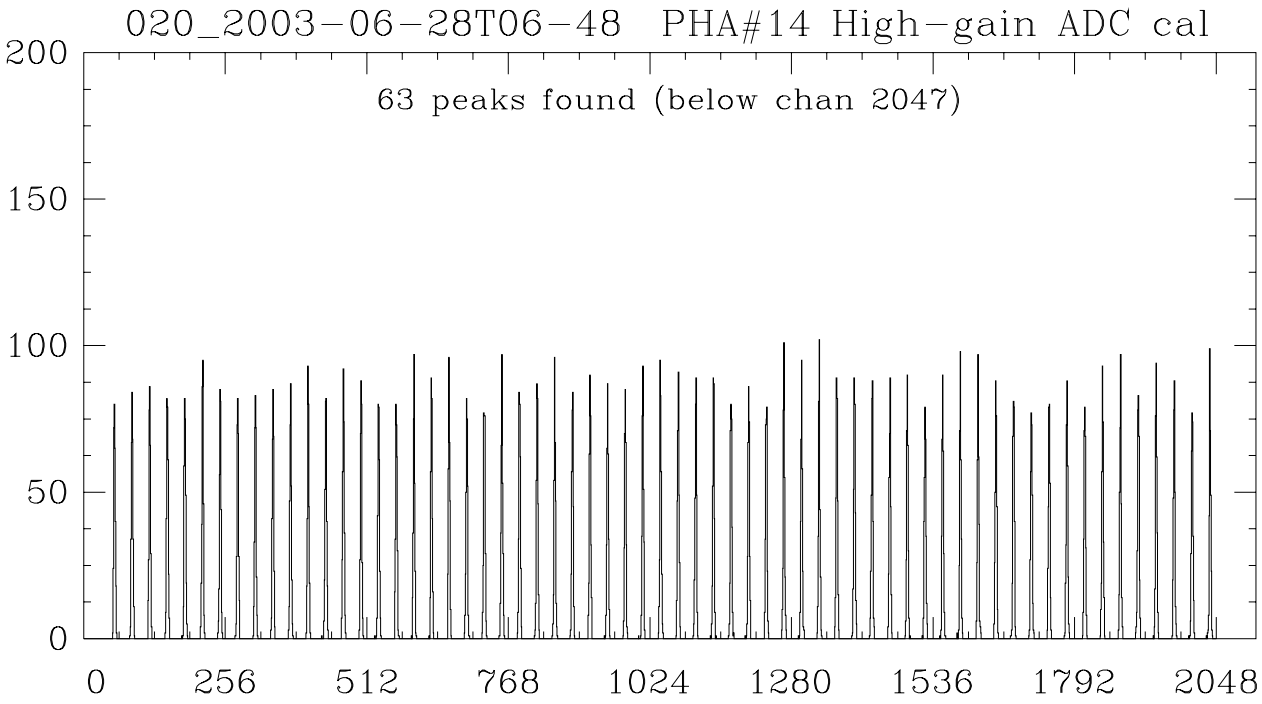
020_2003-06-28T06-48 PHA#13 ADC Calibration analysis

HIGH-GAIN			LOW-GAIN		
peak#	Mean	Sigma	peak#	Mean	Sigma
1	56.39	1.25	1	52.93	0.29
2	88.02	1.22	2	83.67	0.41
3	119.65	1.29	3	115.00	0.31
4	151.84	1.44	4	146.32	0.42
5	183.59	1.32	5	178.31	0.41
6	215.61	1.31	6	210.58	0.44
7	247.61	1.37	7	242.95	0.29
8	279.37	1.30	8	275.08	0.29
9	311.43	1.10	9	307.25	0.33
10	343.27	1.32	10	339.79	0.41
11	375.26	1.22	11	372.01	0.41
12	407.14	1.23	12	404.26	0.34
13	439.13	1.34	13	436.68	0.45
14	471.01	1.25	14	468.97	0.42
15	502.88	1.39	15	501.22	0.41
16	534.93	1.22	16	533.22	0.25
17	566.91	1.18	17	565.91	0.29
18	598.83	1.30	18	598.11	0.41
19	630.70	1.33	19	630.30	0.41
20	662.66	1.21	20	662.21	0.29
21	694.69	1.24	21	694.64	0.47
22	726.44	1.28	22	726.87	0.43
23	758.55	1.12	23	759.05	0.30
24	790.47	1.28	24	791.42	0.44
25	822.35	1.34	25	823.77	0.42
26	854.20	1.40	26	856.02	0.30
27	886.21	1.19	27	888.33	0.44
28	918.19	1.25	28	920.69	0.42
29	950.20	1.33	29	952.97	0.42
30	982.02	1.27	30	985.26	0.44
31	1013.99	1.34	31	1017.60	0.44
32	1045.89	1.18	32	1049.93	0.45
33	1078.29	1.29	33	1082.13	0.40
34	1110.07	1.27	34	1114.24	0.32
35	1141.91	1.16	35	1146.79	0.41
36	1174.08	1.37	36	1179.04	0.30
37	1205.93	1.34	37	1211.24	0.32
38	1237.91	1.27	38	1243.86	0.40
39	1269.73	1.24	39	1276.12	0.48
40	1301.80	1.31	40	1308.24	0.30
41	1333.70	1.37	41	1340.85	0.43
42	1365.84	1.30	42	1373.14	0.40
43	1397.67	1.14	43	1405.22	0.25
44	1429.74	1.42	44	1437.95	0.35
45	1461.79	1.23	45	1470.31	0.43
46	1493.68	1.30	46	1502.83	0.42
47	1525.68	1.37	47	1535.24	0.42
48	1557.92	1.23	48	1567.75	0.43
49	1589.93	1.33	49	1600.25	0.41
50	1622.00	1.29	50	1632.86	0.43
51	1654.13	1.30	51	1665.19	0.27
52	1686.32	1.34	52	1698.05	0.42
53	1718.61	1.41	53	1730.76	0.40
54	1750.69	1.15	54	1763.24	0.33
55	1783.09	1.30	55	1796.07	0.37
56	1815.52	1.37	56	1828.78	0.41
57	1847.76	1.22	57	1861.25	0.30
58	1880.16	1.31	58	1894.21	0.38
59	1912.54	1.29	59	1927.00	0.30
60	1944.88	1.23	60	1959.82	0.45
61	1977.33	1.18	61	1992.68	0.46
62	2009.94	1.39	62	2025.64	0.45


020_2003-06-28T06-48 PHA#14 High-gain ADC cal
63 peaks found (below chan 2047)
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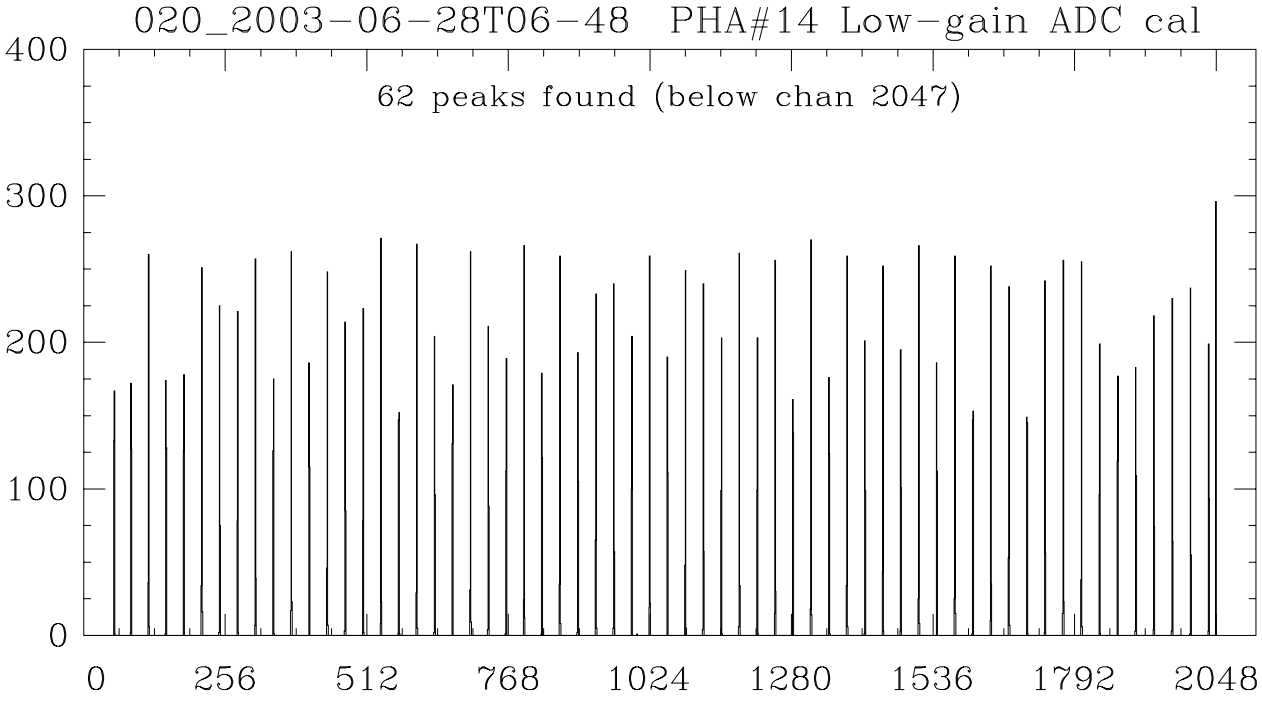
020_2003-06-28T06-48 PHA#14 Low-gain ADC cal
62 peaks found (below chan 2047)
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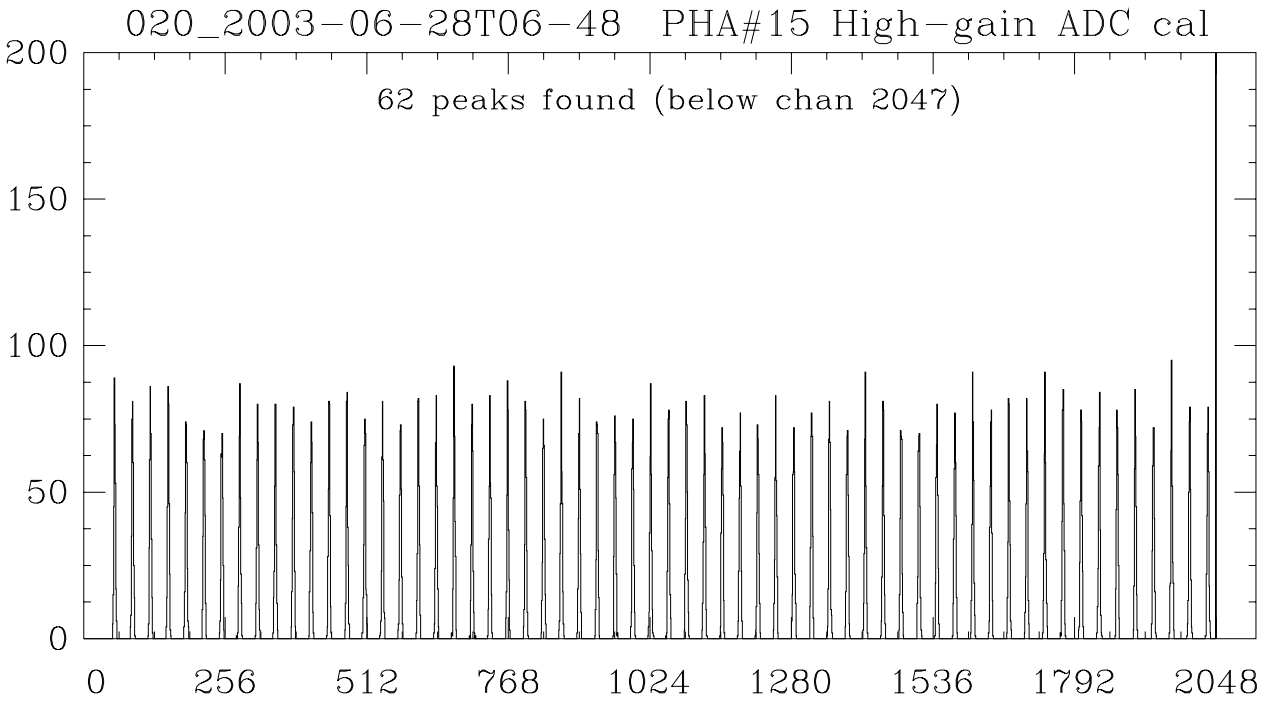
020_2003-06-28T06-48 PHA#14 ADC Calibration analysis

HIGH-GAIN			LOW-GAIN		
peak#	Mean	Sigma	peak#	Mean	Sigma
1	55.62	1.48	1	55.04	0.42
2	87.53	1.44	2	85.94	0.45
3	119.41	1.35	3	117.34	0.42
4	151.21	1.40	4	148.95	0.42
5	182.94	1.42	5	181.03	0.30
6	215.06	1.19	6	213.42	0.46
7	246.86	1.33	7	245.81	0.41
8	278.50	1.39	8	278.18	0.42
9	310.41	1.37	9	310.66	0.43
10	342.38	1.39	10	343.06	0.42
11	374.15	1.38	11	375.24	0.30
12	405.98	1.29	12	407.96	0.30
13	437.90	1.39	13	440.32	0.44
14	469.68	1.33	14	472.82	0.44
15	501.57	1.30	15	505.18	0.42
16	533.23	1.41	16	537.22	0.25
17	565.29	1.48	17	570.01	0.45
18	597.25	1.27	18	602.23	0.32
19	628.86	1.30	19	634.86	0.43
20	660.74	1.35	20	667.02	0.30
21	692.90	1.42	21	699.25	0.35
22	724.51	1.40	22	731.82	0.45
23	756.35	1.34	23	764.07	0.37
24	788.26	1.36	24	796.23	0.31
25	819.93	1.32	25	828.93	0.42
26	851.80	1.33	26	861.37	0.43
27	883.88	1.40	27	893.88	0.44
28	915.68	1.31	28	926.25	0.44
29	947.51	1.42	29	958.73	0.43
30	979.48	1.38	30	991.06	0.29
31	1011.30	1.33	31	1023.25	0.31
32	1043.19	1.25	32	1055.95	0.29
33	1075.17	1.40	33	1088.30	0.42
34	1107.00	1.32	34	1120.74	0.43
35	1138.88	1.26	35	1153.12	0.41
36	1170.66	1.39	36	1185.65	0.41
37	1202.57	1.36	37	1218.12	0.41
38	1234.46	1.42	38	1250.57	0.45
39	1266.33	1.15	39	1282.99	0.30
40	1298.32	1.32	40	1315.19	0.27
41	1330.18	1.16	41	1347.95	0.39
42	1361.96	1.30	42	1380.35	0.42
43	1393.89	1.31	43	1412.88	0.41
44	1425.90	1.30	44	1445.29	0.40
45	1457.96	1.44	45	1477.86	0.45
46	1489.48	1.32	46	1510.24	0.32
47	1521.59	1.56	47	1542.96	0.29
48	1553.45	1.36	48	1575.24	0.32
49	1585.49	1.26	49	1608.01	0.42
50	1617.59	1.32	50	1640.62	0.44
51	1649.83	1.38	51	1673.30	0.45
52	1681.70	1.35	52	1706.00	0.42
53	1713.83	1.51	53	1738.77	0.40
54	1746.02	1.43	54	1771.25	0.30
55	1778.29	1.35	55	1804.34	0.42
56	1810.46	1.46	56	1837.12	0.41
57	1842.71	1.29	57	1870.04	0.30
58	1875.08	1.31	58	1902.89	0.46
59	1907.37	1.33	59	1935.79	0.44
60	1939.52	1.27	60	1968.77	0.42
61	1972.03	1.35	61	2001.79	0.38
62	2004.64	1.48	62	2034.85	0.45
63	2036.98	1.30			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62 peaks found (below chan 2047)
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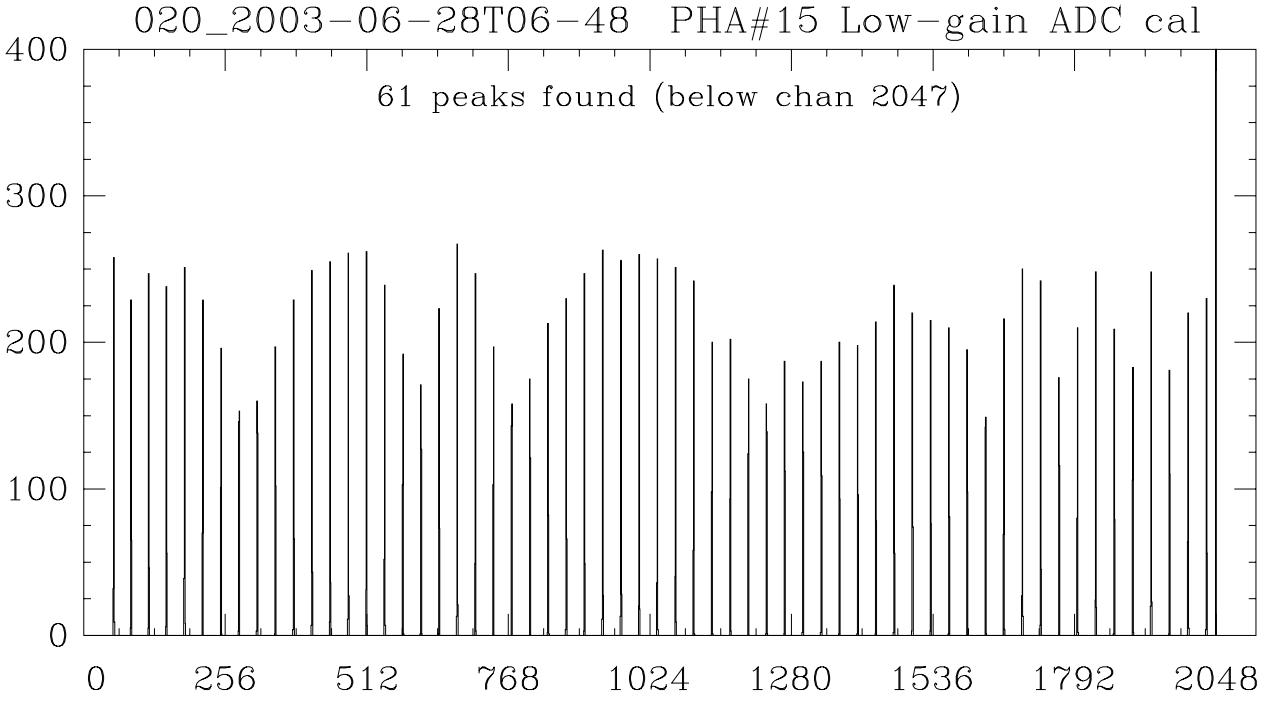
020_2003-06-28T06-48 PHA#15 Low-gain ADC cal
61 peaks found (below chan 2047)
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1024
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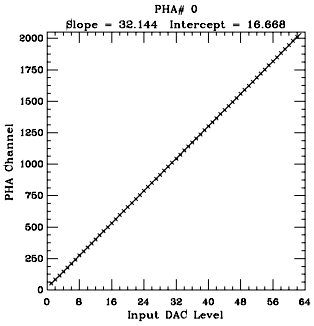
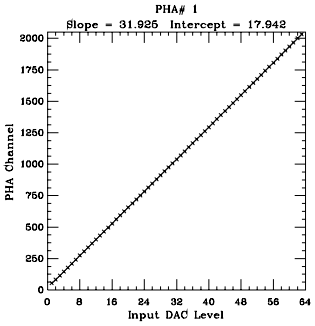
1792
2048

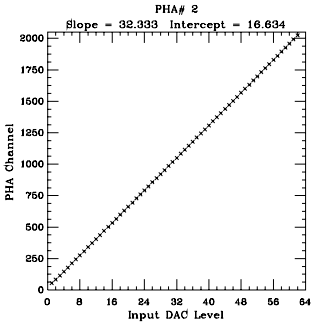
020_2003-06-28T06-48 PHA#15 ADC Calibration analysis

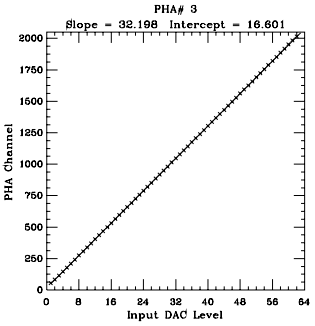
HIGH-GAIN			LOW-GAIN		
peak#	Mean	Sigma	peak#	Mean	Sigma
1	56.00	1.39	1	54.38	0.43
2	88.33	1.43	2	85.75	0.44
3	120.61	1.43	3	117.70	0.42
4	153.01	1.36	4	149.72	0.44
5	185.20	1.54	5	182.35	0.43
6	217.52	1.63	6	215.09	0.28
7	249.92	1.68	7	248.11	0.41
8	282.20	1.42	8	281.01	0.46
9	314.55	1.48	9	313.97	0.47
10	346.77	1.38	10	346.89	0.41
11	379.20	1.46	11	379.76	0.43
12	411.63	1.60	12	412.67	0.43
13	443.84	1.41	13	445.63	0.43
14	476.02	1.33	14	478.28	0.30
15	508.42	1.46	15	511.27	0.35
16	540.70	1.50	16	544.30	0.44
17	573.03	1.56	17	577.11	0.41
18	605.29	1.40	18	609.94	0.44
19	637.61	1.53	19	642.83	0.39
20	669.88	1.39	20	675.20	0.26
21	702.36	1.41	21	708.27	0.41
22	734.66	1.64	22	741.06	0.29
23	766.87	1.32	23	774.01	0.29
24	799.28	1.43	24	806.97	0.30
25	831.59	1.54	25	839.83	0.42
26	863.76	1.51	26	872.76	0.43
27	896.23	1.51	27	905.73	0.41
28	928.51	1.48	28	938.25	0.28
29	960.85	1.59	29	971.57	0.44
30	993.09	1.56	30	1004.23	0.30
31	1025.41	1.44	31	1037.32	0.40
32	1057.90	1.48	32	1070.36	0.44
33	1090.04	1.48	33	1103.21	0.38
34	1122.58	1.52	34	1136.12	0.41
35	1154.73	1.63	35	1169.16	0.45
36	1187.09	1.61	36	1202.03	0.30
37	1219.25	1.60	37	1234.97	0.44
38	1251.67	1.61	38	1267.91	0.42
39	1284.15	1.68	39	1300.93	0.45
40	1316.52	1.48	40	1333.89	0.44
41	1348.71	1.43	41	1366.87	0.41
42	1381.03	1.61	42	1399.88	0.41
43	1413.39	1.37	43	1432.84	0.40
44	1445.87	1.41	44	1465.77	0.40
45	1478.29	1.56	45	1498.80	0.43
46	1510.76	1.58	46	1531.80	0.43
47	1543.05	1.56	47	1564.85	0.40
48	1575.60	1.63	48	1597.94	0.29
49	1608.07	1.36	49	1631.01	0.42
50	1640.71	1.54	50	1664.22	0.44
51	1673.20	1.41	51	1697.25	0.34
52	1705.96	1.52	52	1730.68	0.44
53	1738.46	1.36	53	1763.94	0.37
54	1771.17	1.40	54	1797.17	0.42
55	1803.92	1.52	55	1830.48	0.45
56	1836.78	1.43	56	1863.85	0.40
57	1869.14	1.52	57	1897.11	0.44
58	1901.81	1.41	58	1930.51	0.45
59	1934.74	1.56	59	1963.91	0.42
60	1967.45	1.27	60	1997.25	0.45
61	2000.07	1.45	61	2030.74	0.43
62	2033.16	1.49			

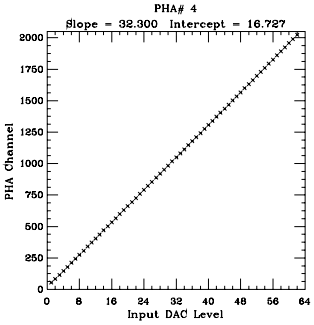
Low-gain ADC Linearity Analysis
020_2003-06-28T06-48

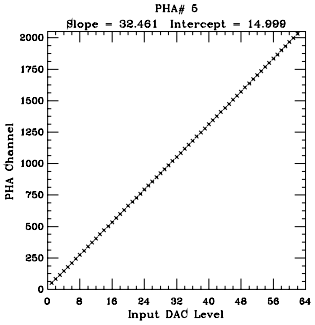


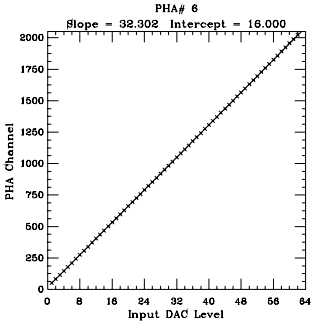


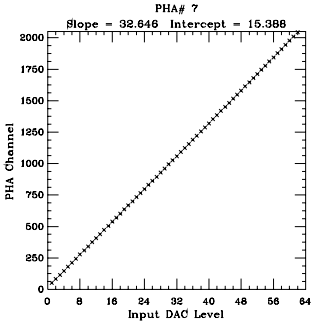


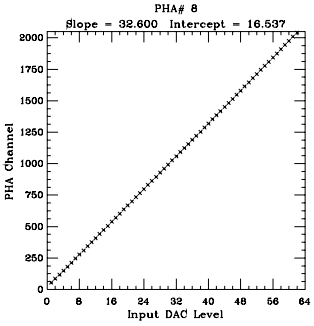


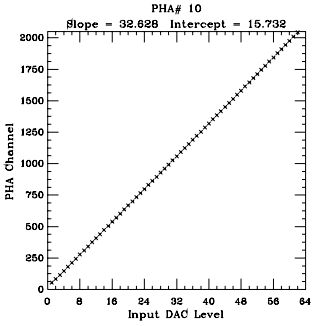


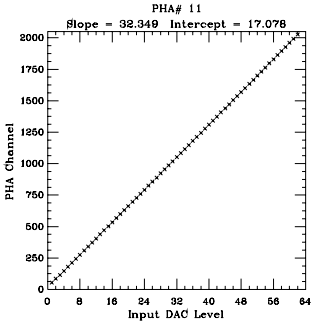


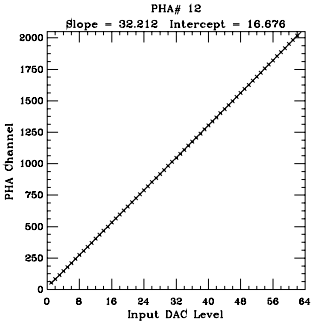


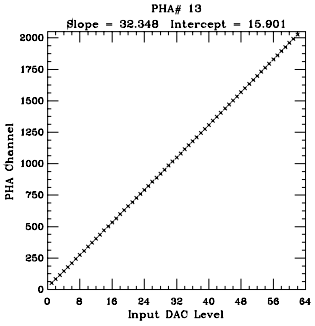


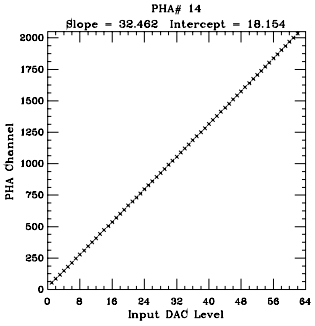


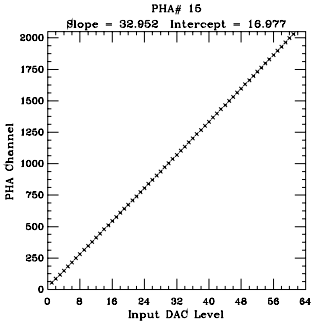












Low-gain ADC Linearity Analysis
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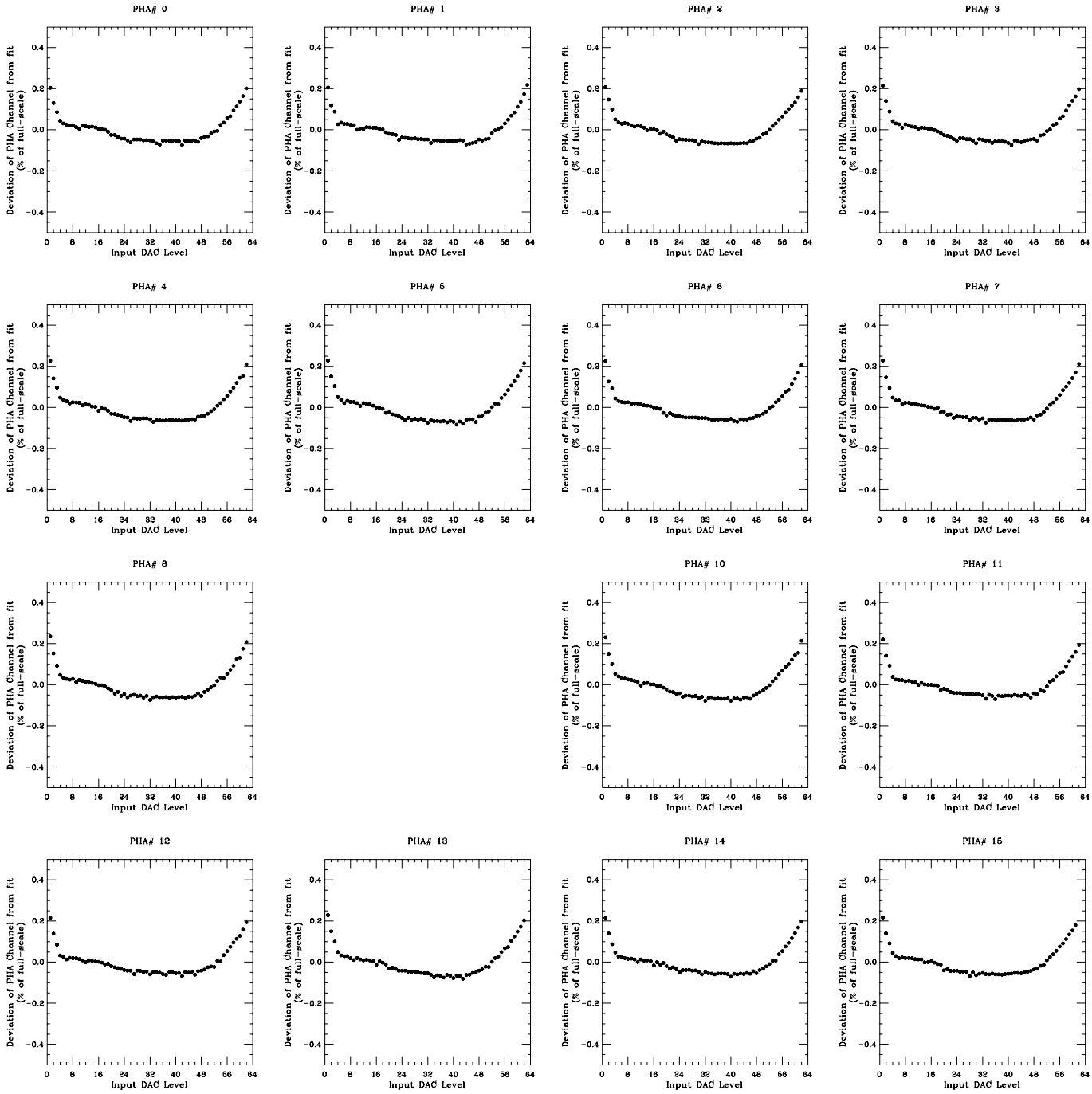

High-gain ADC Linearity Analysis
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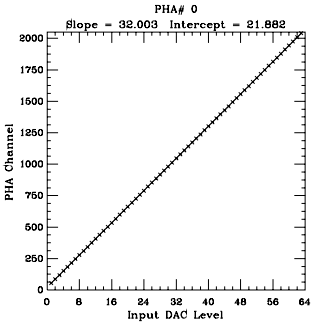

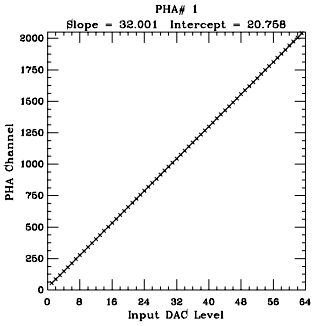

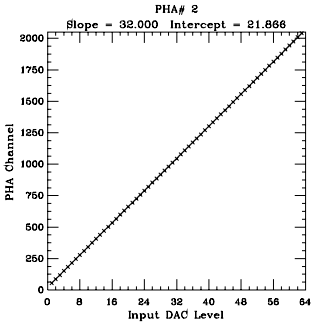

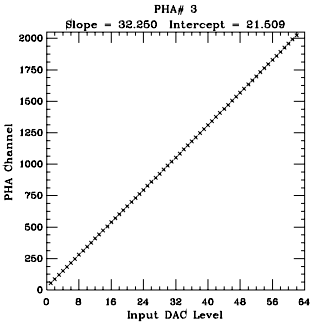

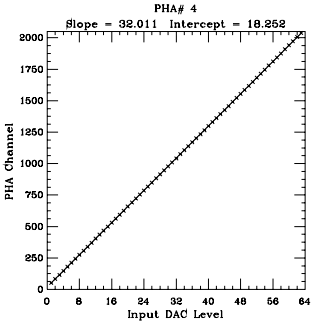

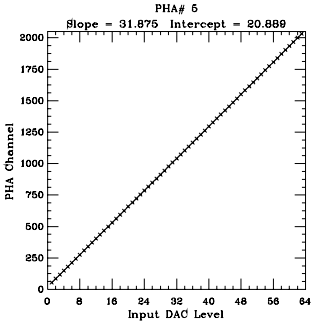

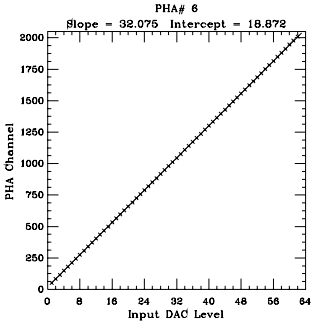

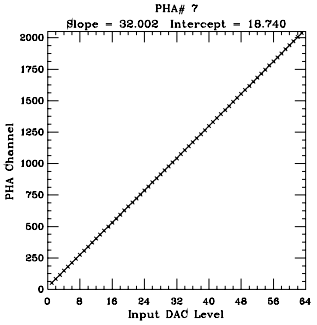

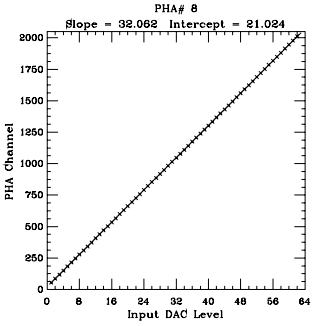

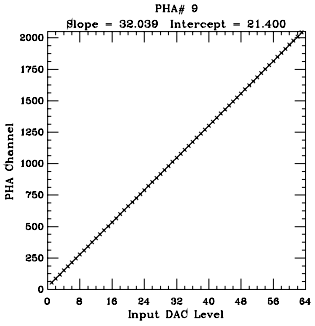

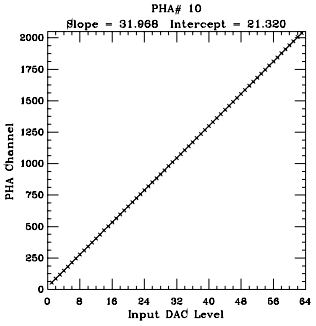

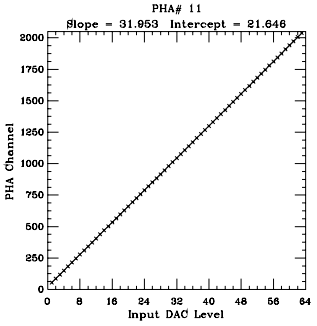

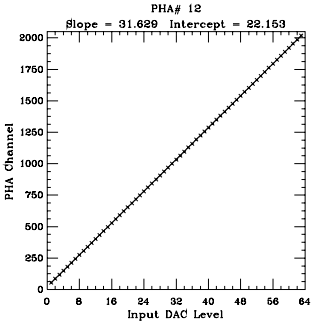

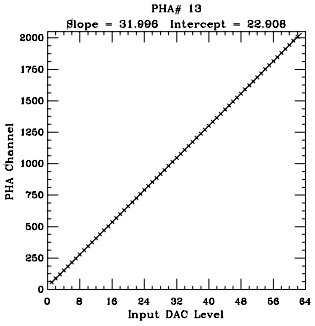

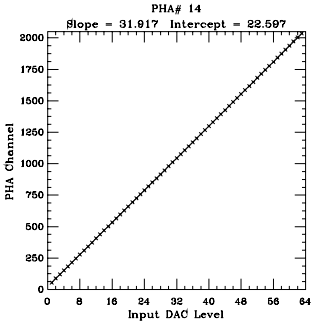

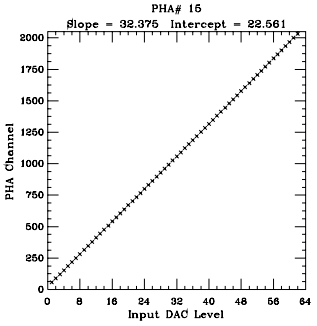

High-gain ADC Linearity Analysis
020_2003-06-28T06-48