

V&V Reference Report

L2 ASCDS Version : 7.6.11.10

Observation 329 - L2 Version 3
Chandra X-Ray Center

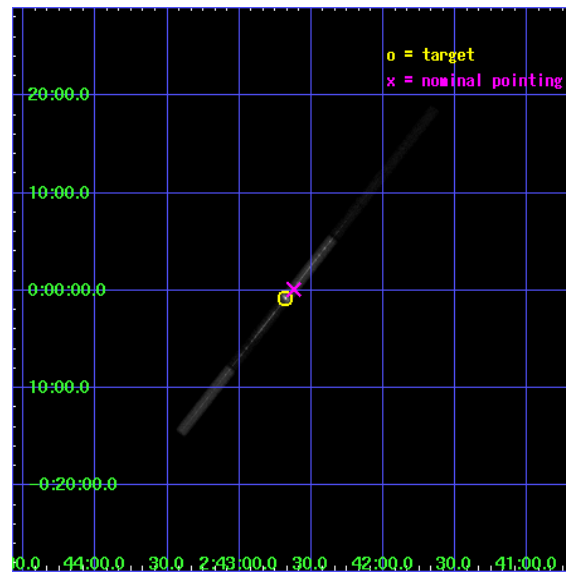
L2 Processing Date : Feb 5 2009

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1 Front

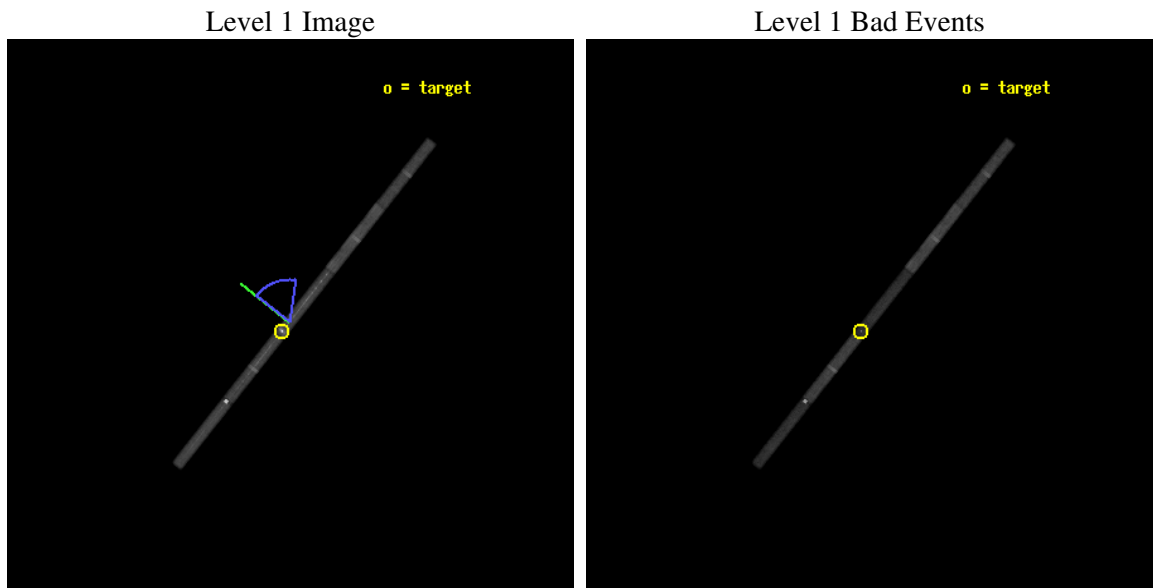
seq_num	700001
obs_id	329
title	OBSERVATIONS OF BRIGHT ACTIVE GALACTIC NUCLEI WITH LETGS
observer	DR. ALBERT BRINKMAN
object	NGC 1068
dtcycle	0
cycle	P
ra_targ	40.670417
dec_targ	-0.013222
ra_nom	40.65530468546
dec_nom	0.001903275429077
roll_nom	308.51476678234
revision	3
ontime	77313.476181686
livetime	72363.792757101
ontime5	77312.194131583
ontime6	77313.476181686
ontime7	77313.476181686
ontime8	77311.553131431
ontime9	77312.194121584
l2events	174667



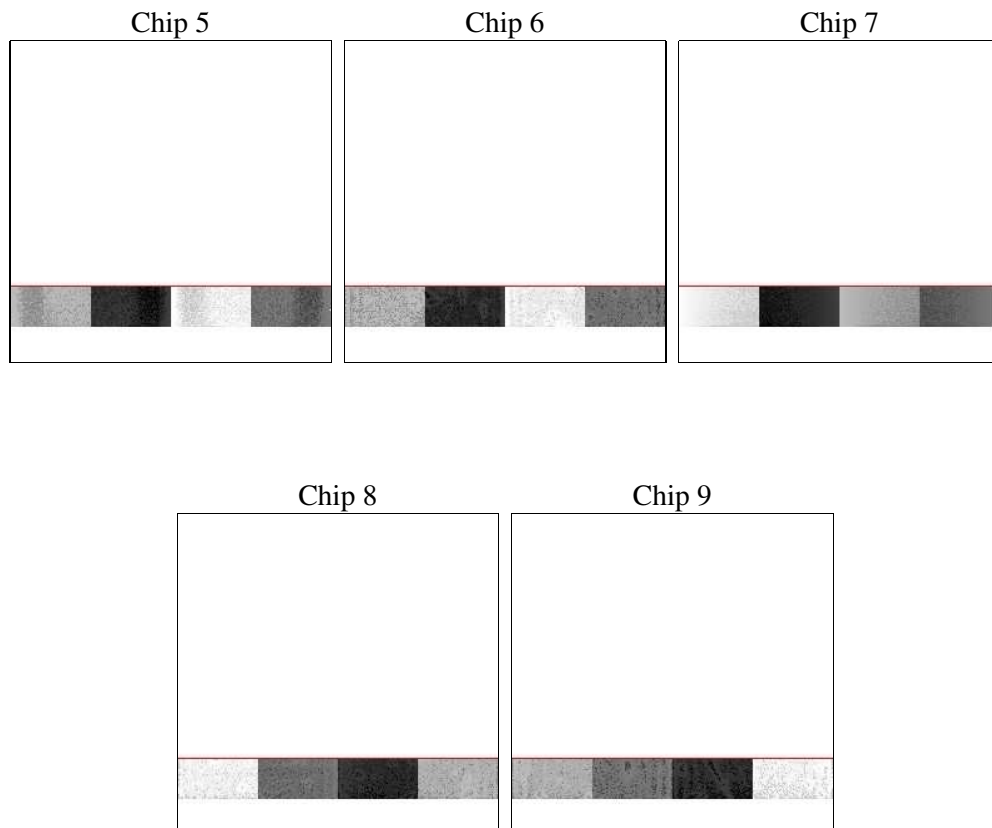
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0
ascdsver	7.6.11.10
caldbver	3.5.1
date	2009-02-05T17:31:25
revision	3

sched_exp_time	76700.000000
ontime	77313.476181686
ontime5	77312.194131583
ontime6	77313.476181686
ontime7	77313.476181686
ontime8	77311.553131431
ontime9	77312.194121584
l1events	562951

2.1.4 Events

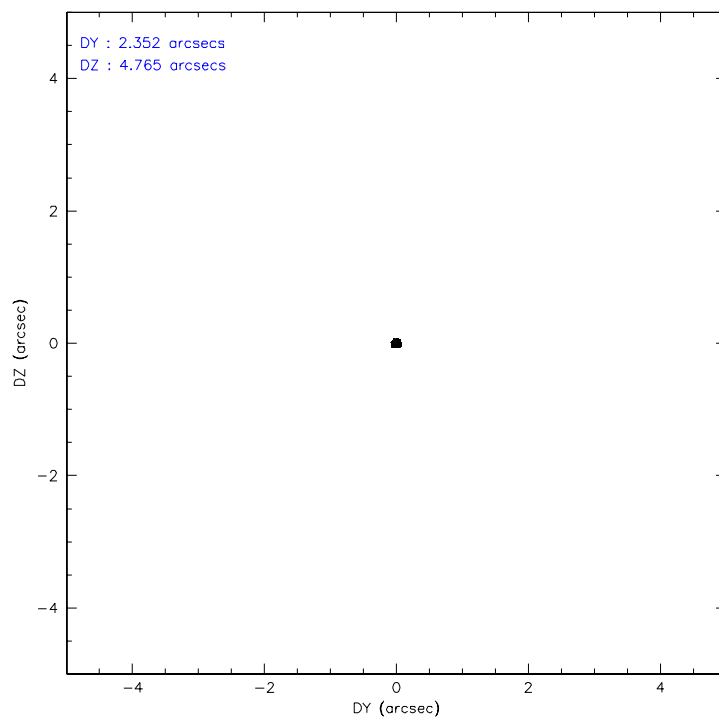
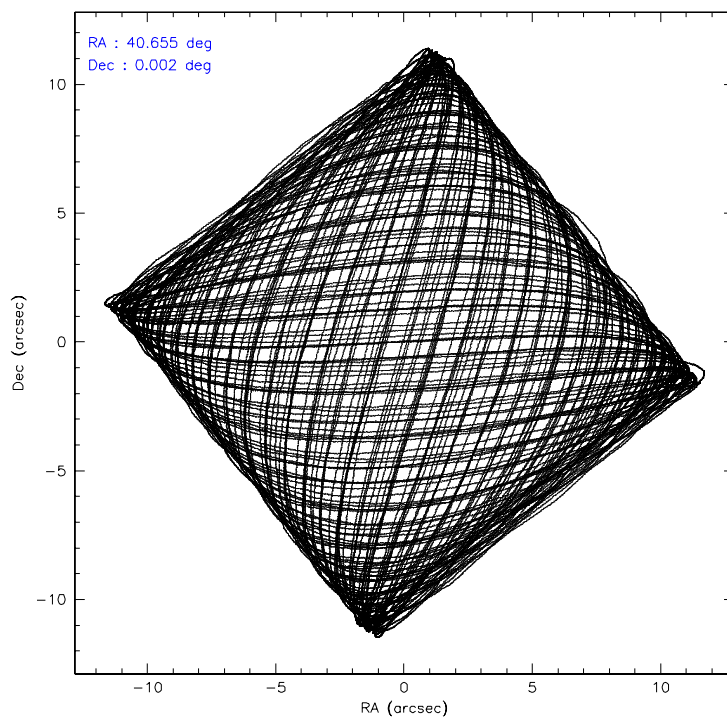
	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	130045	96037	145340	113938	77591
rejected events	56757	75416	44286	94549	68906
rejected %	43%	78%	30%	82%	88%

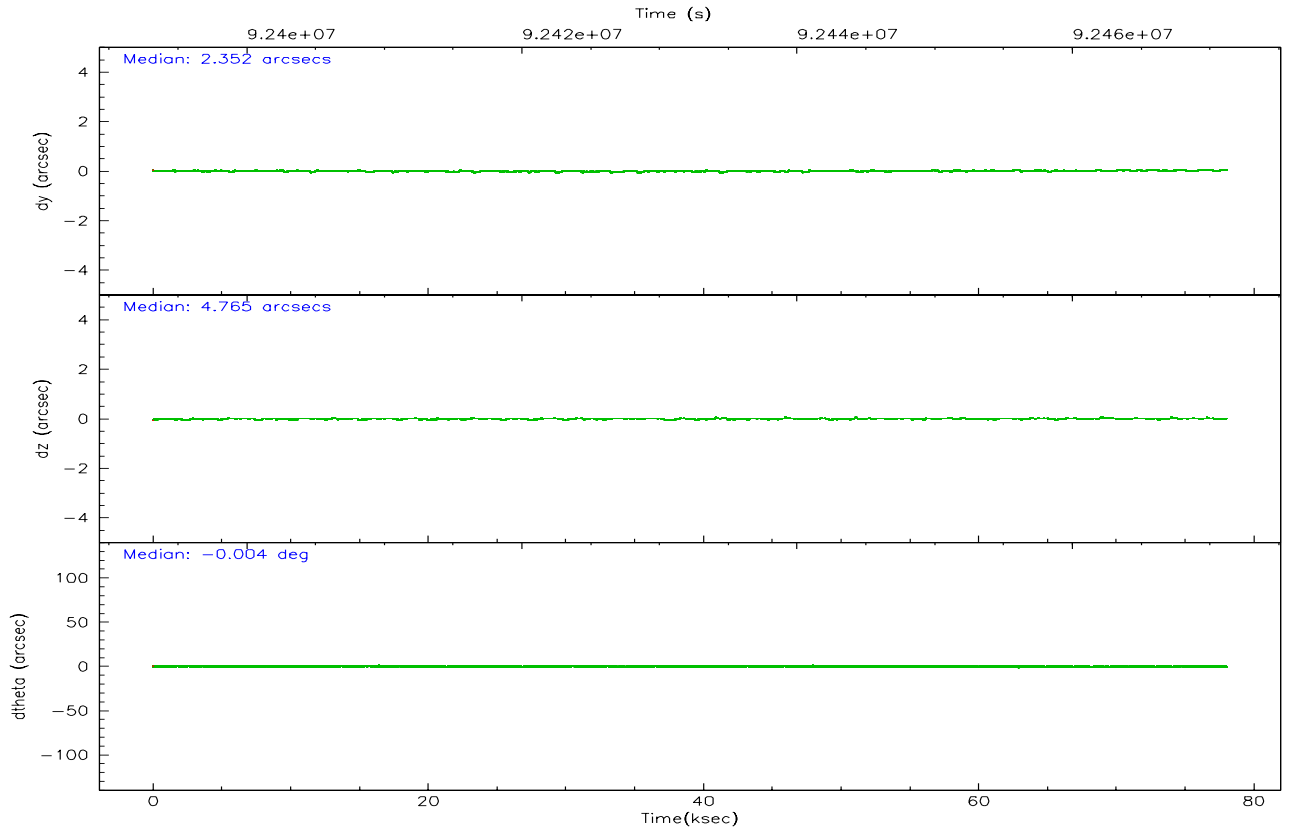
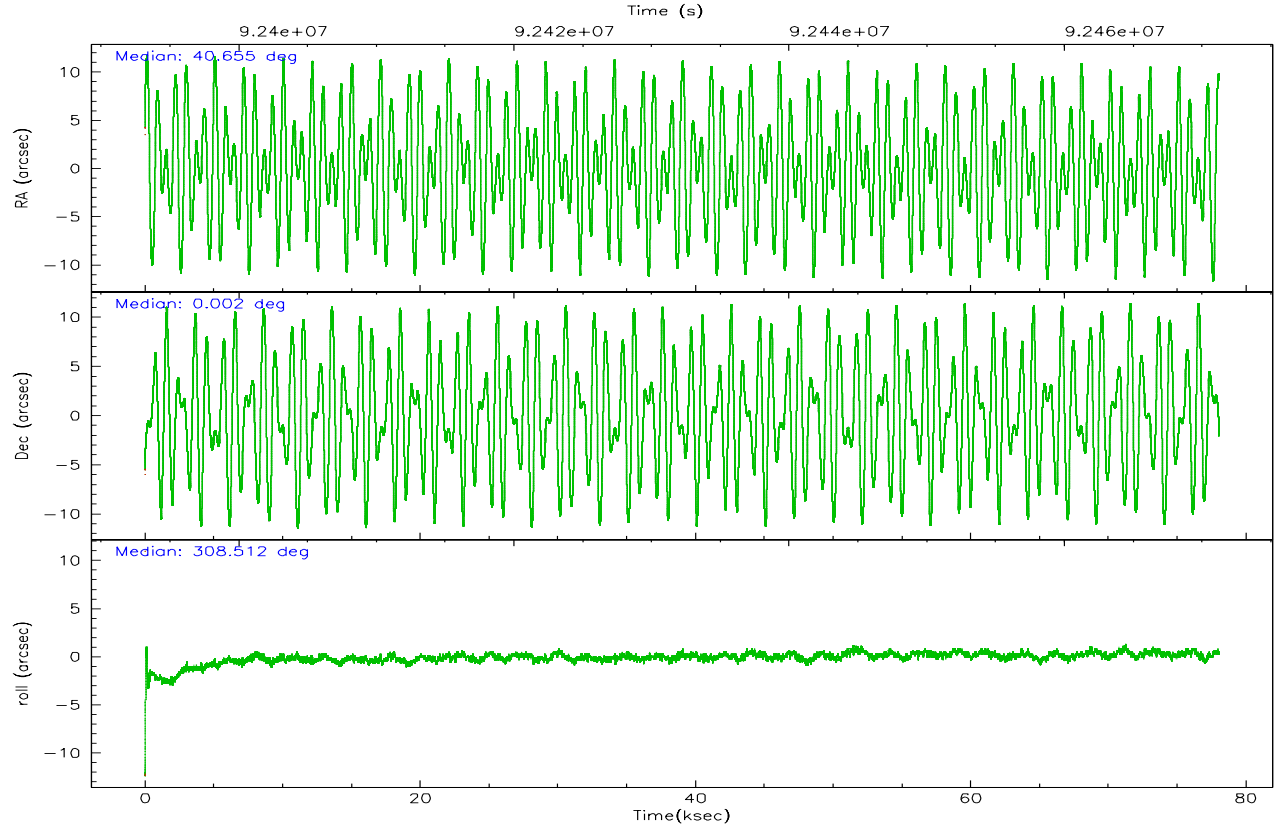
	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	25591	13183	27207	5675	2993
	19%	13%	18%	4%	3%
grade 1 events	10076	19	257	17	14
	7%	0%	0%	0%	0%
grade 2 events	13737	2322	24664	3329	1301
	10%	2%	16%	2%	1%
grade 3 events	4734	1836	11945	2479	1548
	3%	1%	8%	2%	1%
grade 4 events	9034	1687	11434	2418	1457
	6%	1%	7%	2%	1%
grade 5 events	11204	2140	7496	2716	2125
	8%	2%	5%	2%	2%
grade 6 events	20193	1593	25805	5488	1386
	15%	1%	17%	4%	1%
grade 7 events	35476	73257	36532	91816	66767
	27%	76%	25%	80%	86%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-56789	ACIS-56789	Obspar file type	PREDICTED	ACTUAL
Grating	LETG	LETG	Obspar update status	OVERRIDE	OVERRIDE
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
Pointing RA	40.65530468545997	40.65530468545997	Subarray requested	1/8	1/8
Pointing Dec	0.001903275429076973	0.001903275429076973	Subarray start row	115	115
Pointing Roll	308.5147667823383	308.5147667823383	Subarray row count	128	128
Roll angle	338	338	Alternating exposures requested	N	N
Roll tolerance	30.000000	30.000000	Primary exposure time	0.6	0.6
Roll constraint allows 180D rotation	N	N			
SIM focus pos (mm)	-0.68282252473119	-0.68282252473119			
SIM defocus (mm)	0.001444942264670734	0.001444942264670734			
SIM translation stage pos (mm)	-182.137000445	-182.137000445			
SIM translation stage offset (mm)	-7.995522658967189	-7.995522658967189			
Observation start time	92393126.50046922	92393126.50046922			
Observation start date	2000-12-05T09:08:15	2000-12-05T08:45:26			
Observation end time	92472094.040985	92472094.040985			
Observation end date	2000-12-06T06:26:35	2000-12-06T06:41:34			
Read mode	TIMED	TIMED			

2.3 Aspect



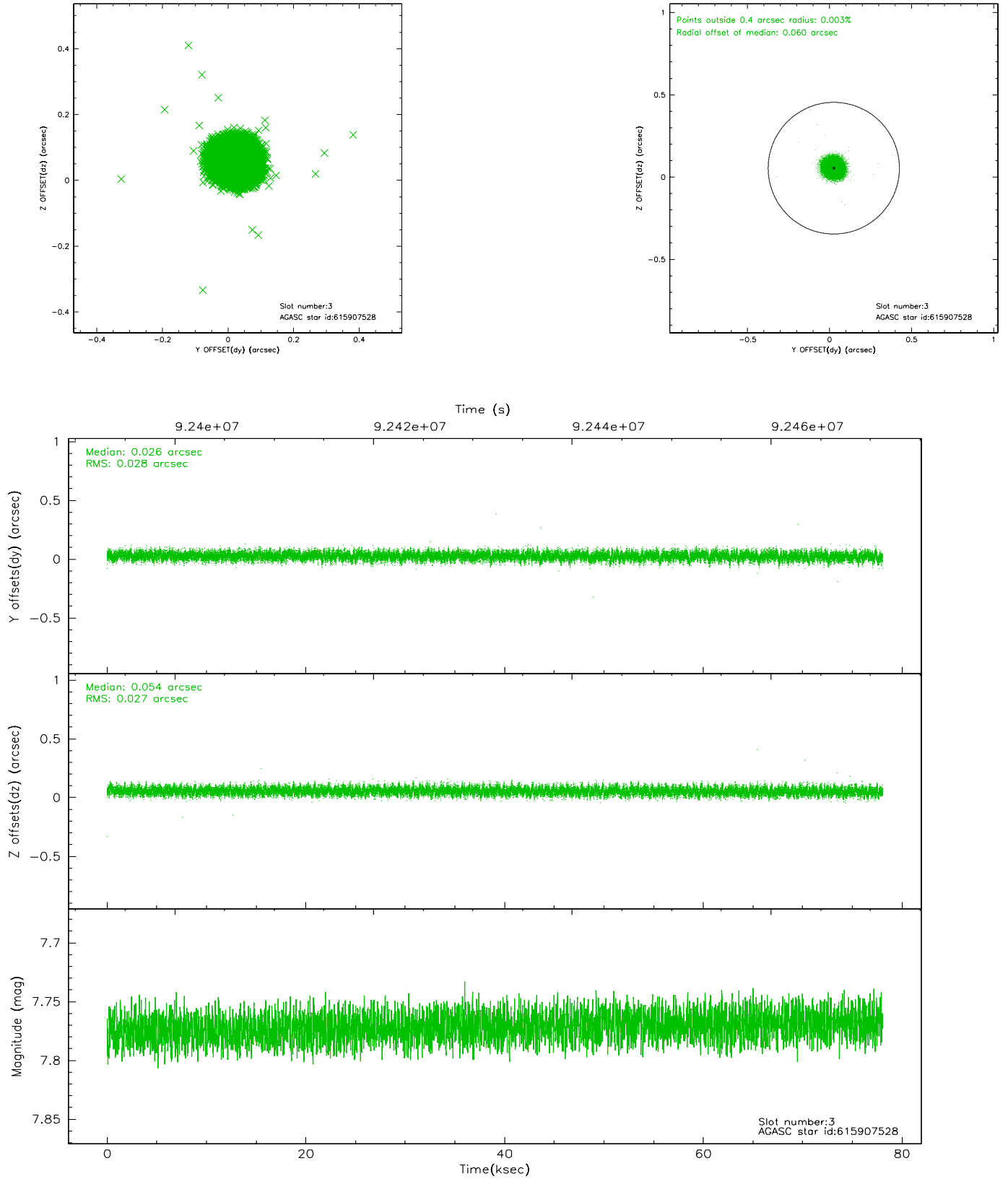


Slot Statistics

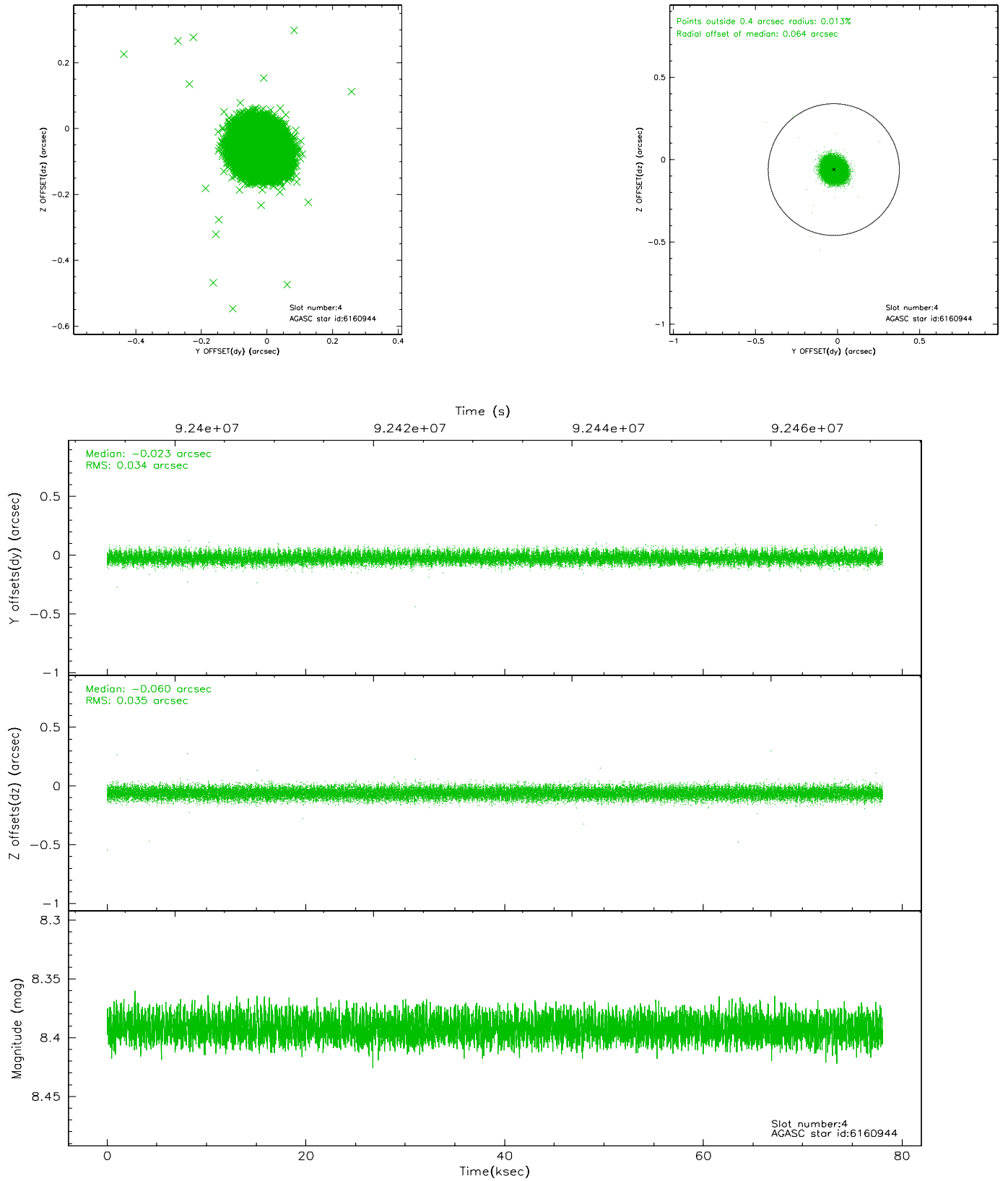
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	19041	-0.058	-0.074	0.007	0.012	0.000000	0.000000	-754.47	-1890.65
1	FID	ACIS-S-4	7.18	19036	0.049	0.048	0.006	0.010	0.000000	0.000000	2158.95	17.99
2	FID	ACIS-S-5	7.23	19036	-0.022	0.035	0.007	0.012	0.000000	0.000000	-1807.35	11.59
3	GUIDE	615907528	7.77	38073	0.026	0.054	0.041	0.066	41.252710	-0.191636	1965.72	1304.13
4	GUIDE	6160944	8.39	38073	-0.023	-0.060	0.052	0.082	40.821496	0.087247	215.11	709.69
5	GUIDE	615907472	8.38	38068	-0.047	-0.043	0.069	0.116	40.049578	-0.266703	-510.16	-2260.18
6	GUIDE	615913552	8.71	38064	0.108	0.073	0.066	0.109	41.235237	-0.003650	1396.07	1674.71
7	GUIDE	6166048	7.86	38073	-0.059	-0.019	0.041	0.065	40.482066	0.525874	-1781.47	731.39

2.4 Star Slots

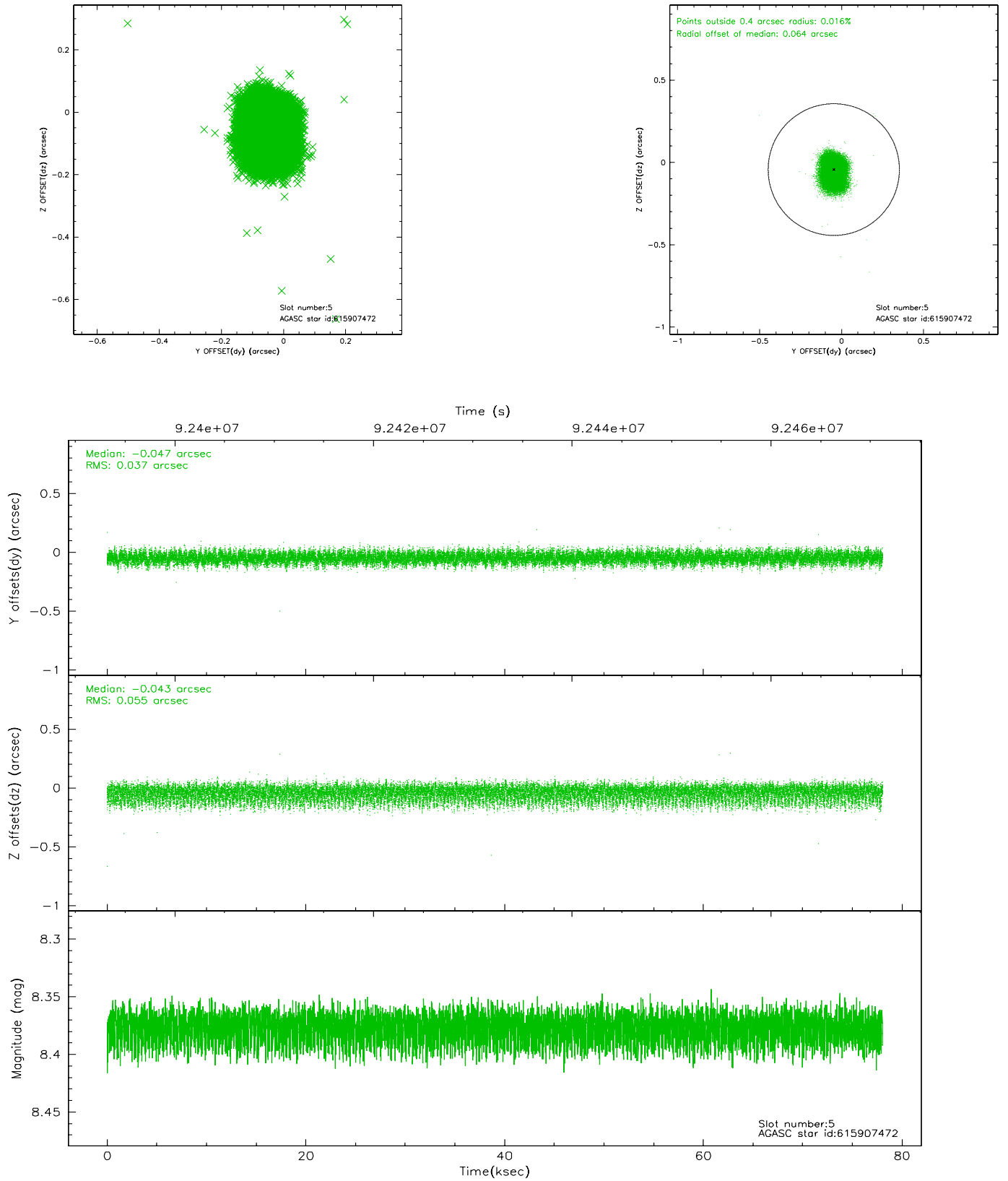
2.4.1 Slot 3



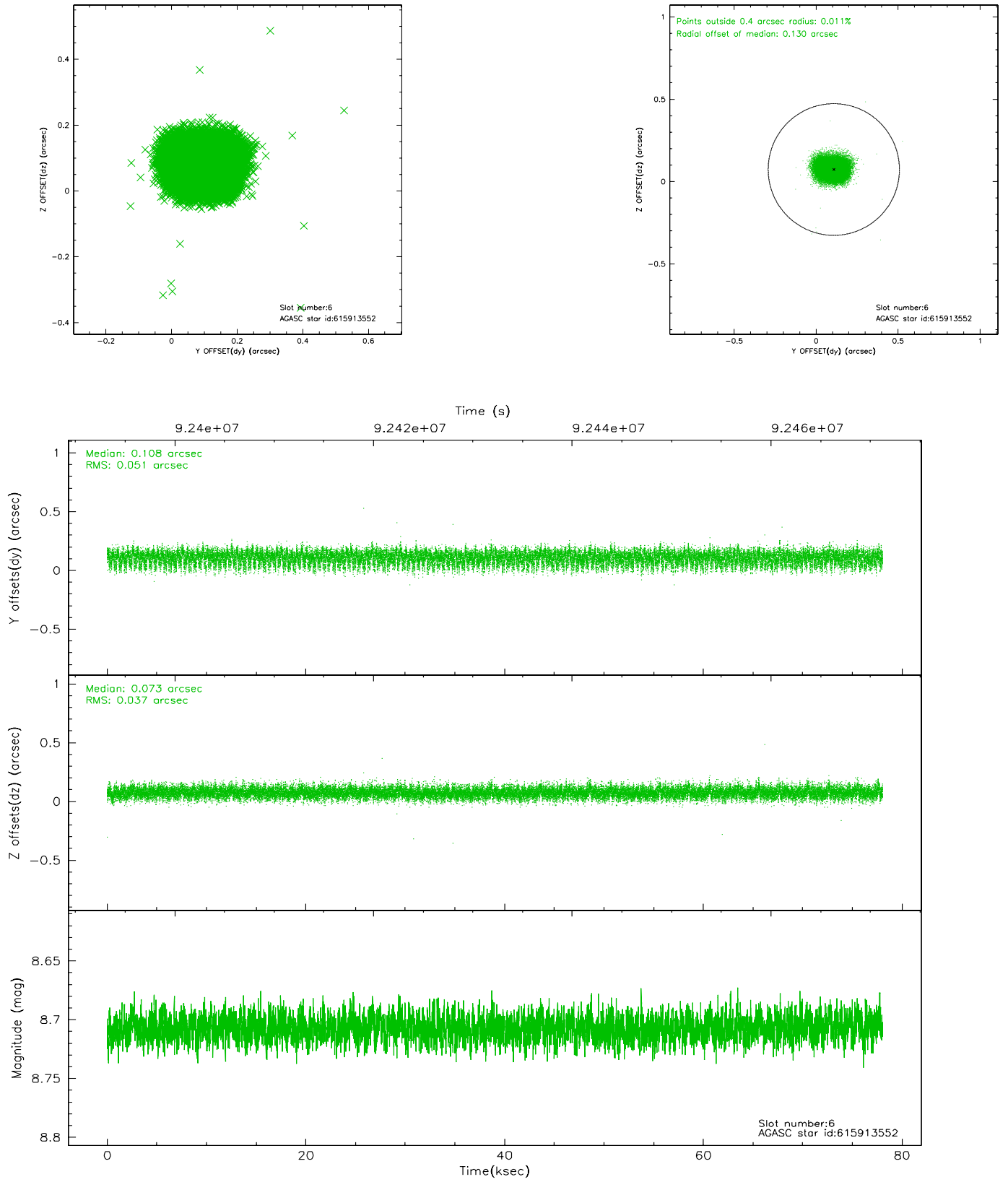
2.4.2 Slot 4



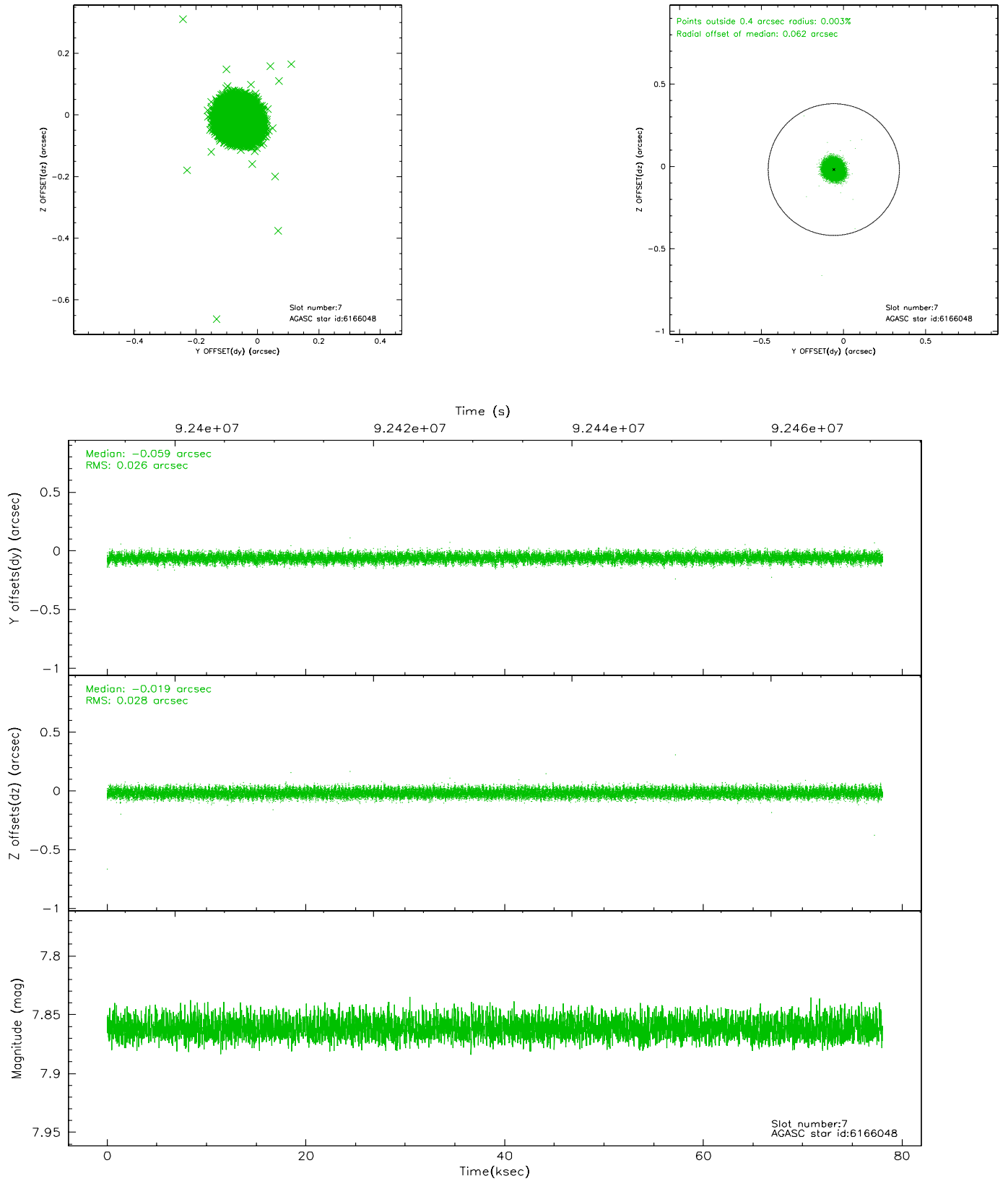
2.4.3 Slot 5



2.4.4 Slot 6

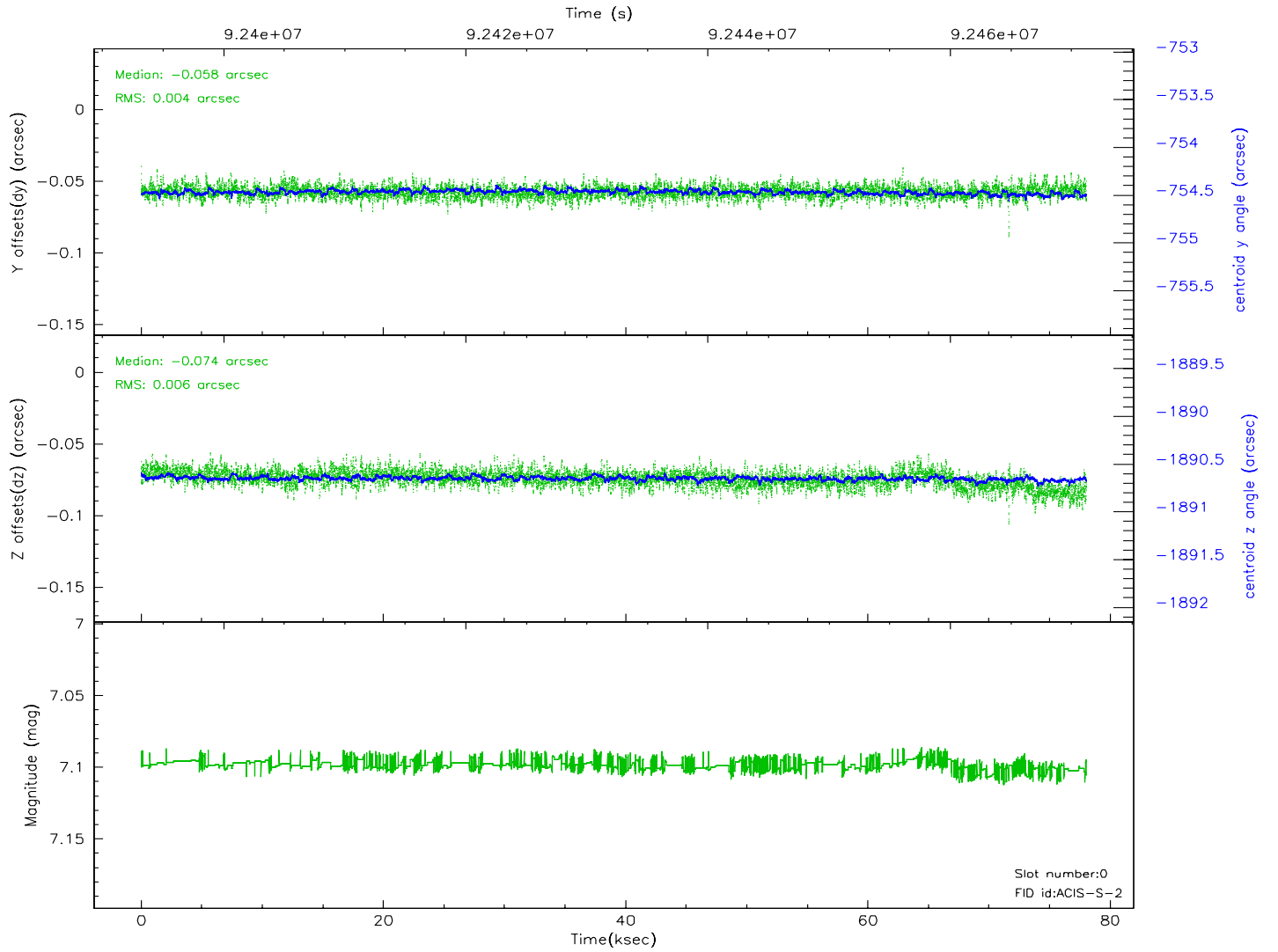
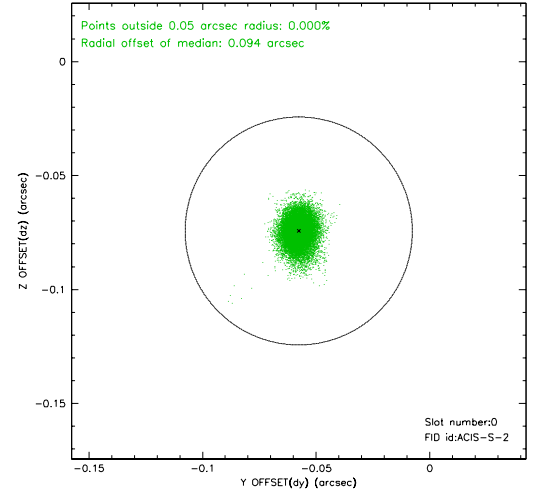
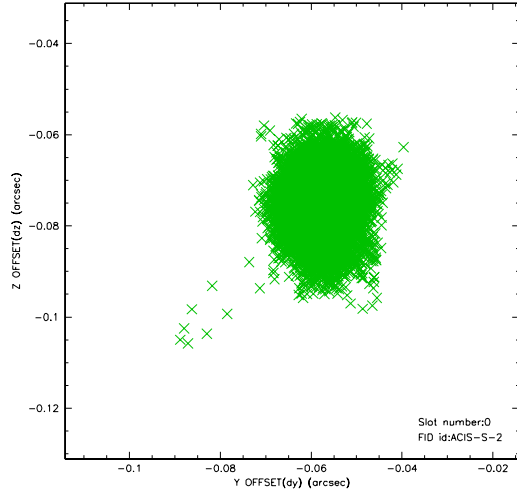


2.4.5 Slot 7

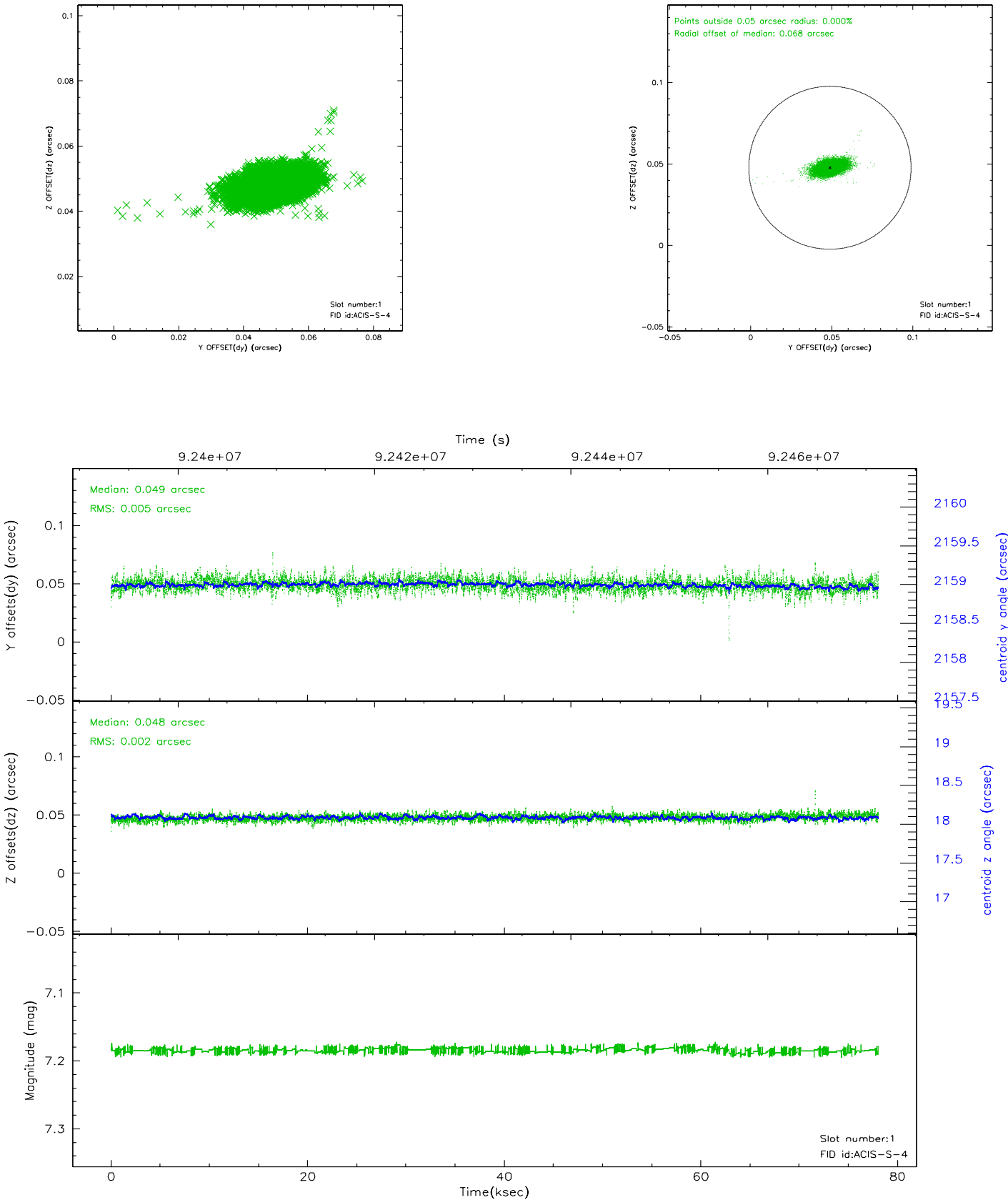


2.5 FID Slots

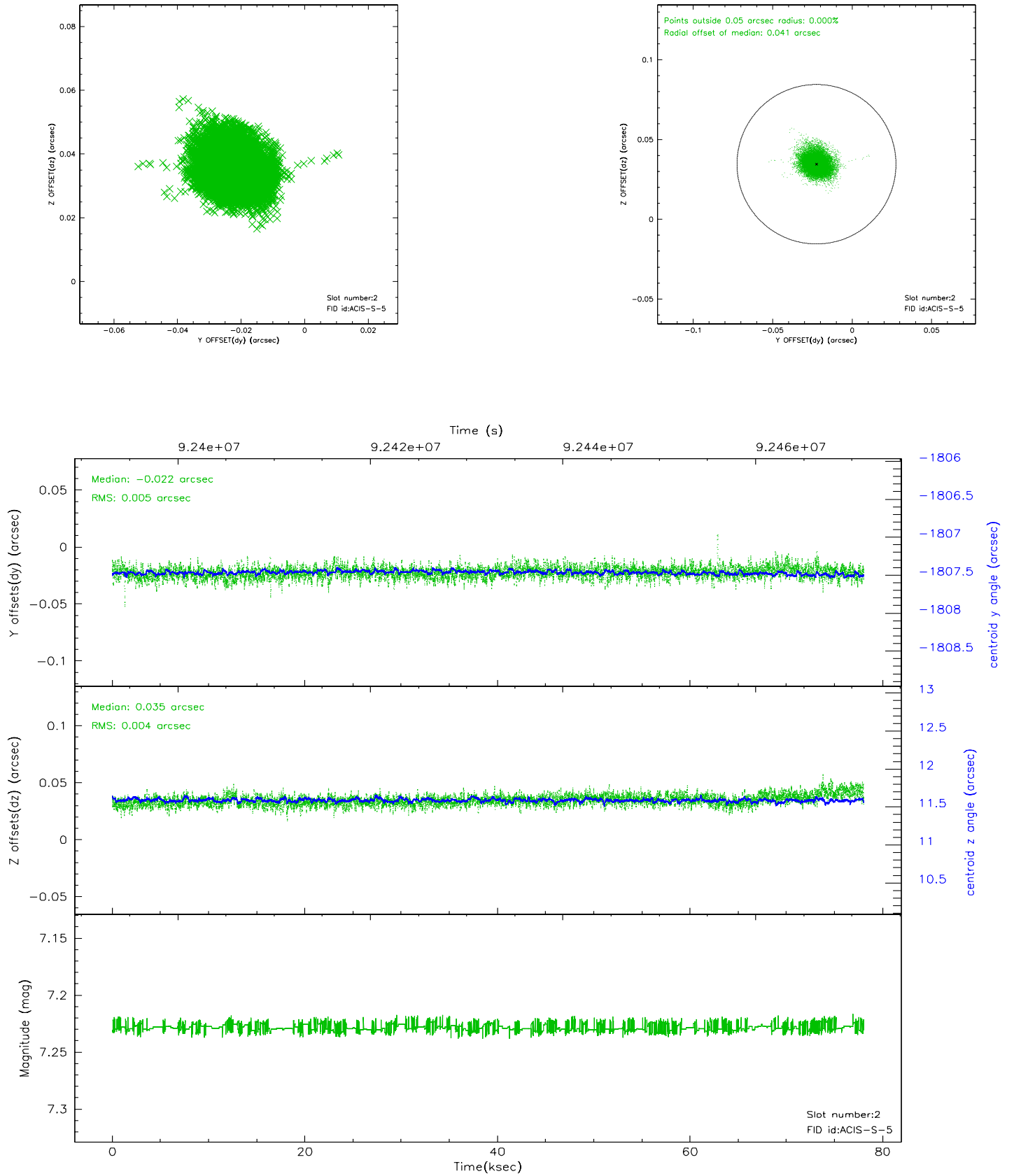
2.5.1 Slot 0



2.5.2 Slot 1

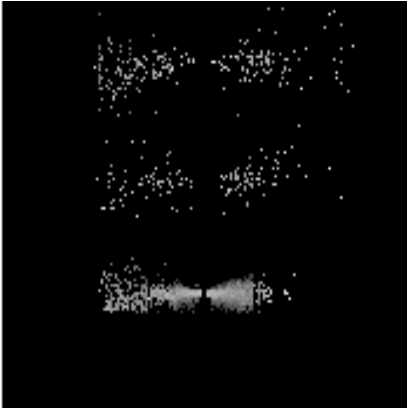


2.5.3 Slot 2

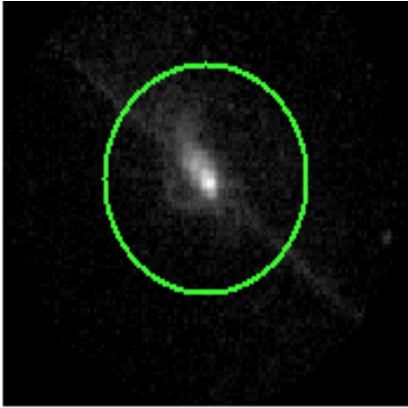


3 Gratings

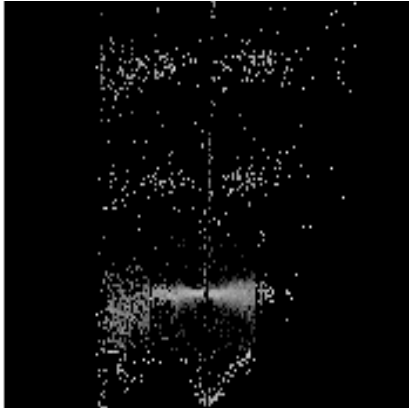
3.1 LETG Arm



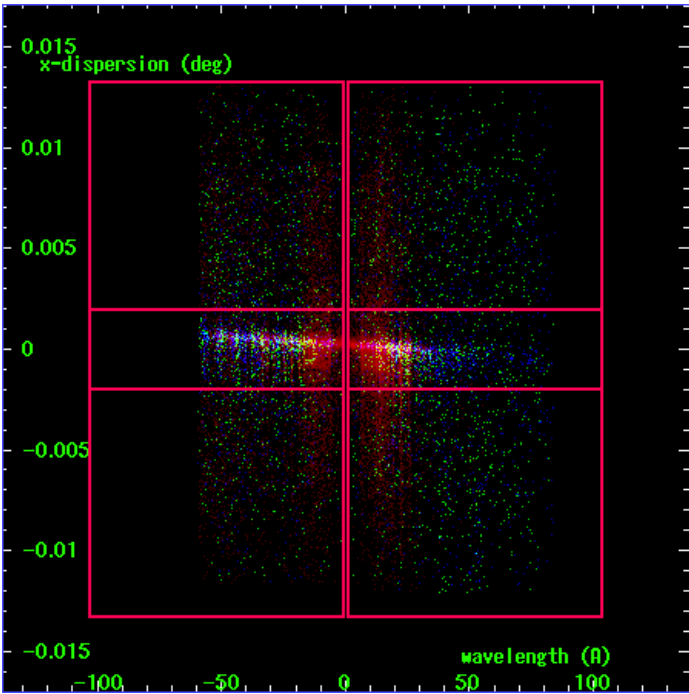
LETG Order Sort 123



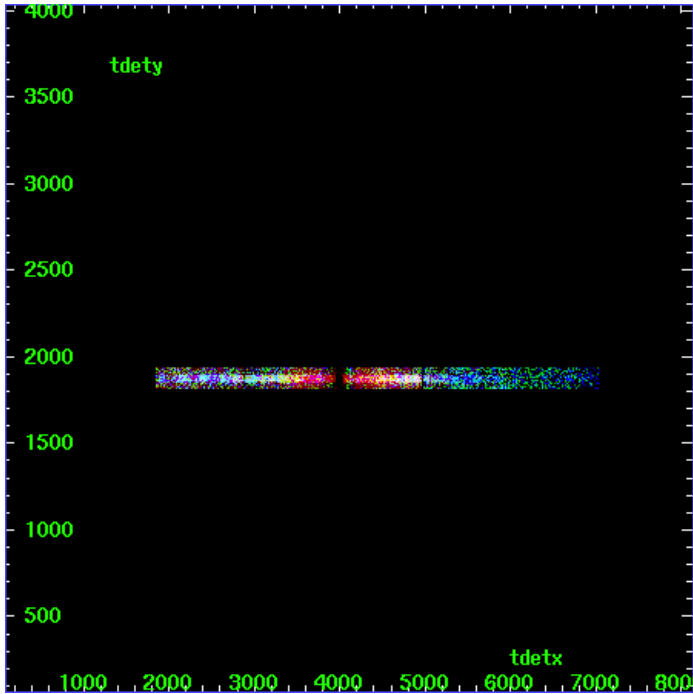
LETG Zero Order



LETG Order Sort ALL

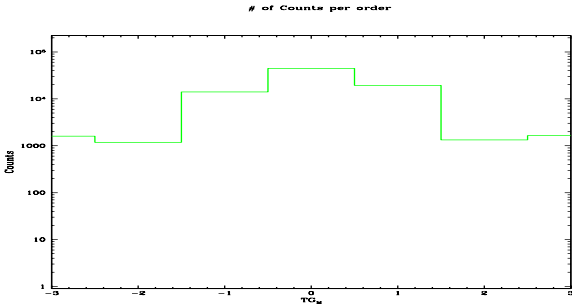


Spot Image LETG

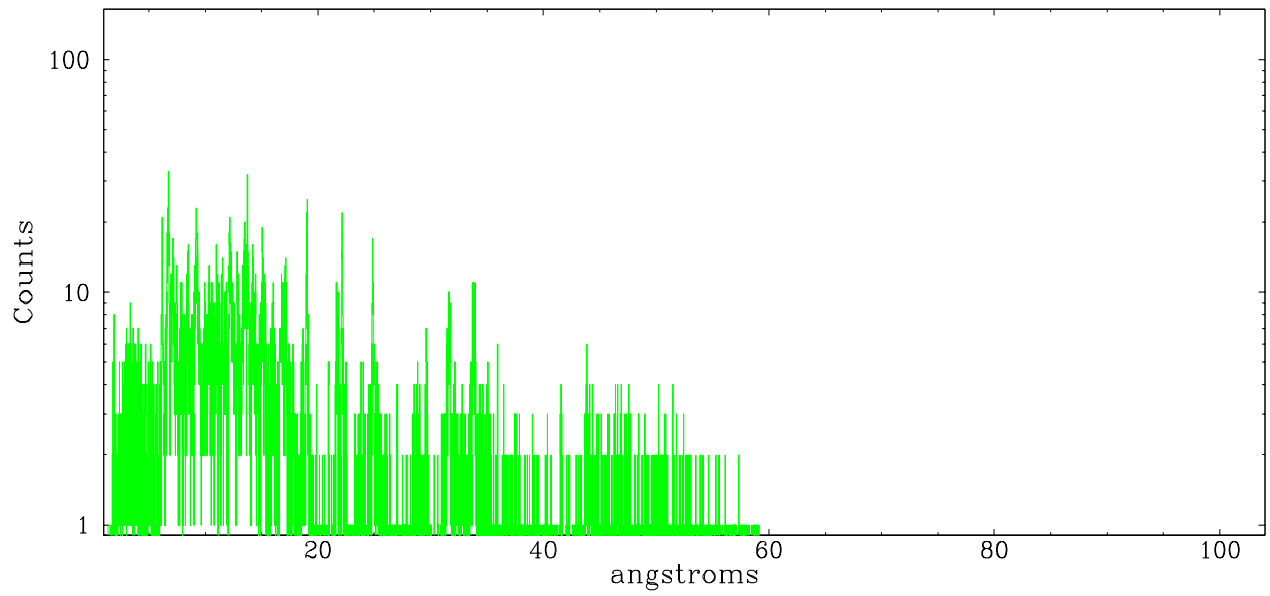


Full Detector LETG

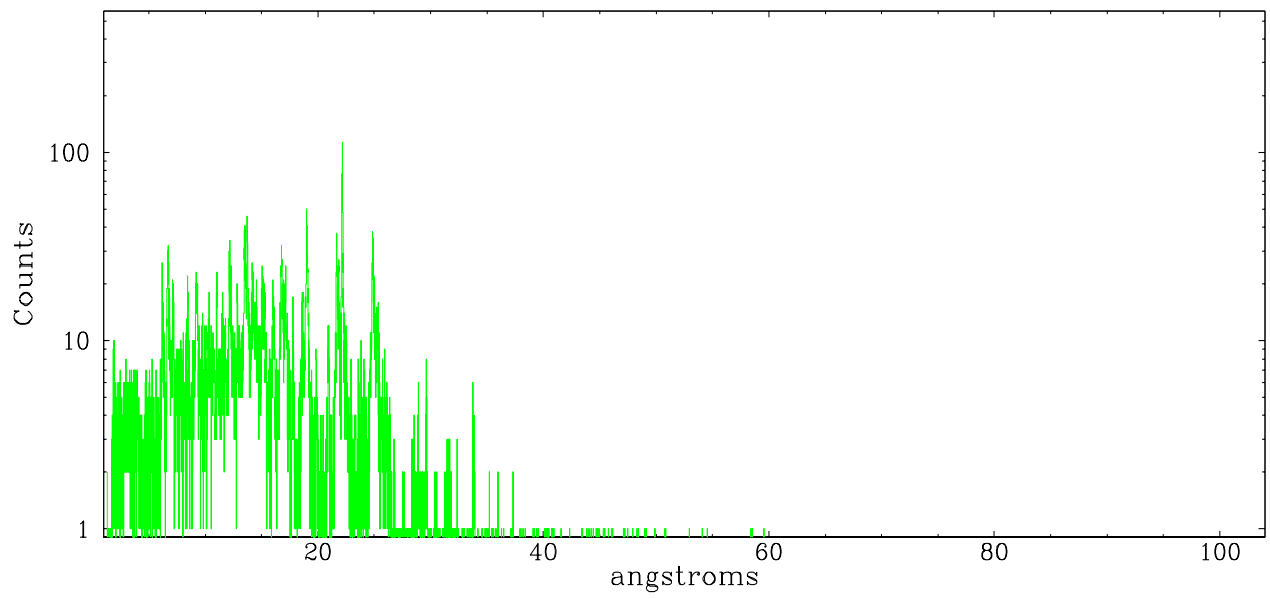
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	1601	1180	13993	44445	19299	1330	1647



leg order -1



leg order +1



A Summary

A.1 Status

V&V Scientist	David Huenemoerder
V&V Date (YYYY-MM-DD)	2009.02.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	77.213

A.2 Comments

This is an extended source. The extraction is centered on the brightest point and used default regions widths. Custom extractions may be desired to separate extended and core emission.

=====
===

Charge time for this ObsId remains at original value of 77.213 ks, although with the current processing the charge time would have been 77.313 ksec.

=====
This obsid was reprocessed to correct minor errors in parameters used in processing. Some of these parameters cannot be determined automatically for this observation and were derived from spacecraft telemetry.