

V&V Reference Report

L2 ASCDS Version : 7.6.7.1

Observation 7016 - L2 Version 002
Chandra X-Ray Center

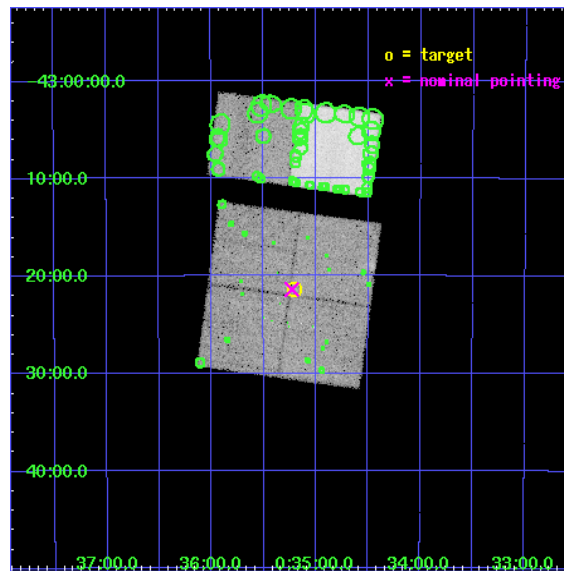
L2 Processing Date : Mar 25 2006

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1 Front

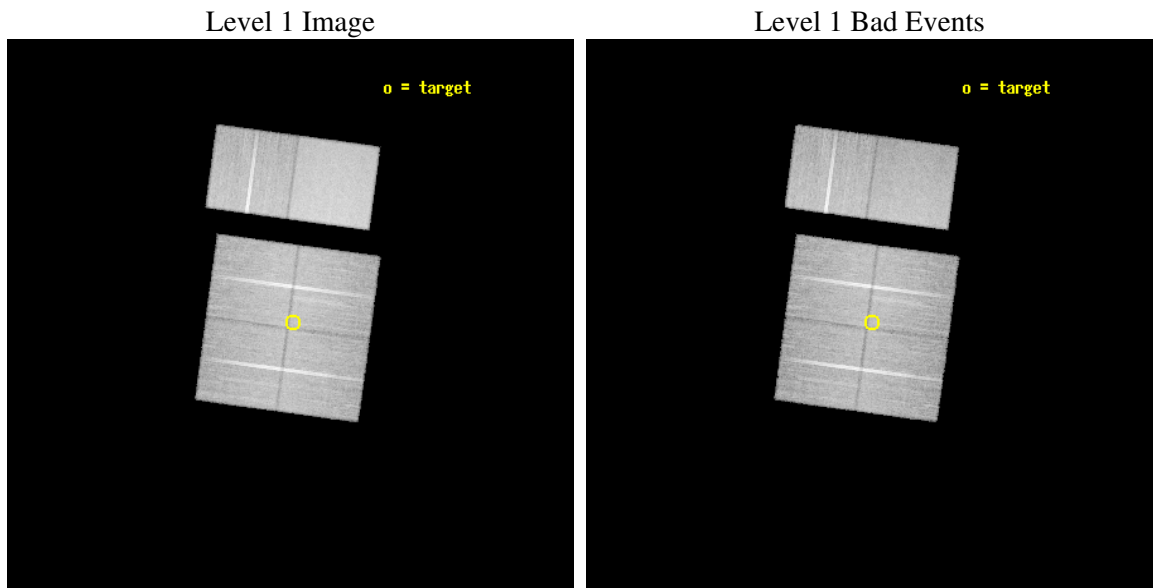
seq_num	900432
obs_id	7016
title	The dark side of accretion: chasing type 2 QSOs
observer	Dr. Fabrizio Fiore
object	ELAIS-S1 A
dtcycle	0
cycle	P
ra_targ	8.80125
dec_targ	-43.355556
ra_nom	8.8073940723559
dec_nom	-43.356789488388
roll_nom	7.7098515589891
revision	2
ontime	32150.39988023
livetime	31743.2921583
ontime0	32150.39988023
ontime1	32147.15888992
ontime2	32150.39988023
ontime3	32150.39988023
ontime6	32150.39988023
ontime7	32150.39988023
l2events	237575



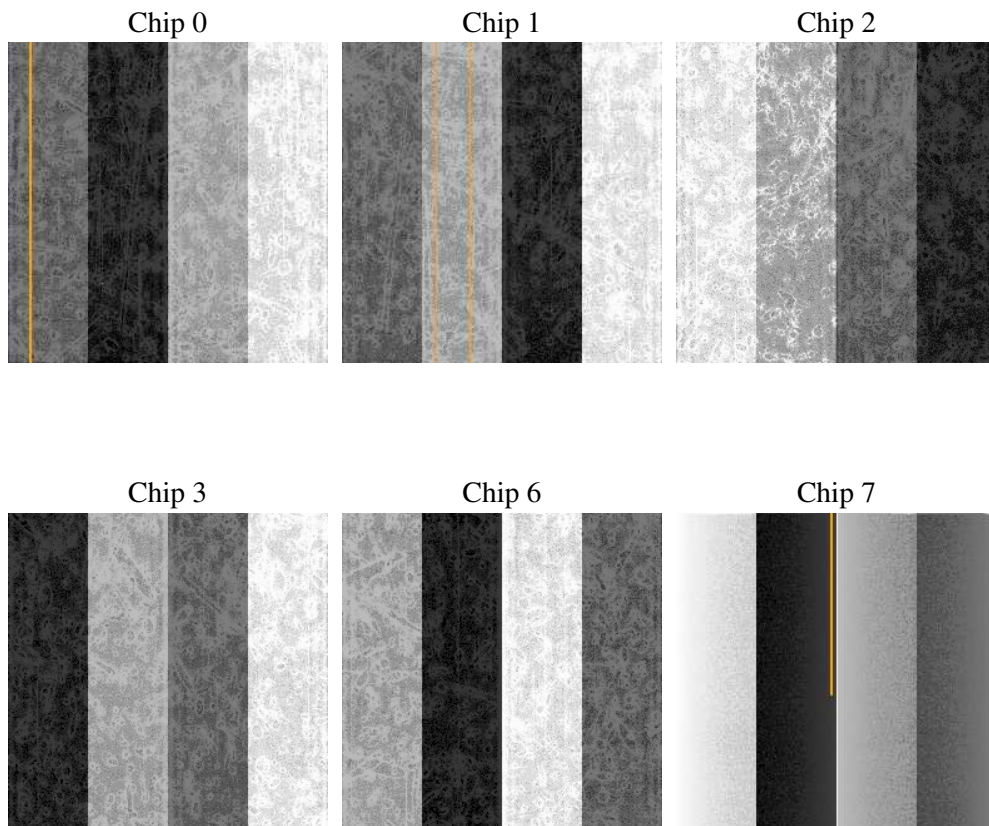
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0
ascdsver	7.6.7.1
caldsver	3.2.1
date	2006-03-26T01:40:40
revision	2

sched_exp_time	32000.000000
ontime	33489.375010669
ontime0	33489.375030577
ontime1	33486.134040266
ontime2	33489.375030577
ontime3	33489.375010669
ontime6	33489.375030577
ontime7	33489.375030577
l1events	1468002

2.1.4 Events

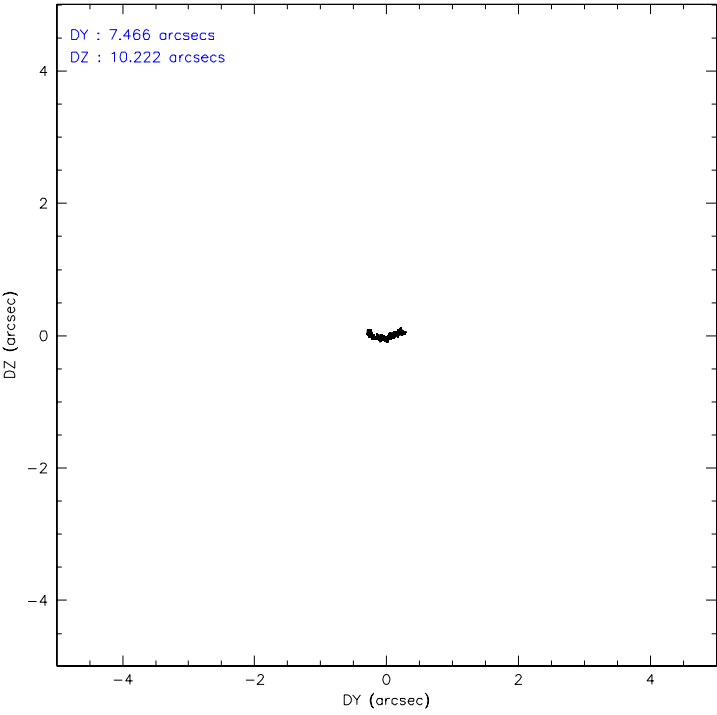
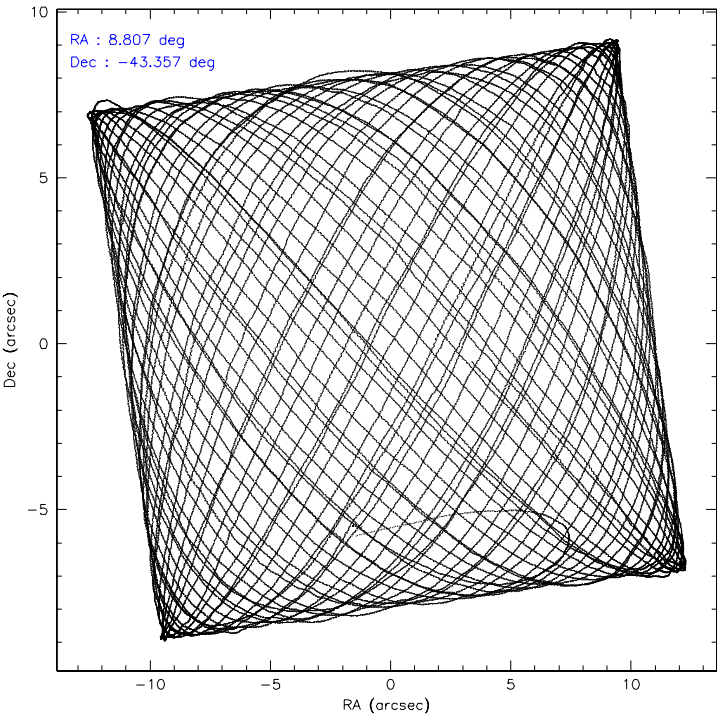
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	214163	218554	232321	227872	246880	328212
rejected events	186264	189163	205453	200234	219091	208828
rejected %	86%	86%	88%	87%	88%	63%

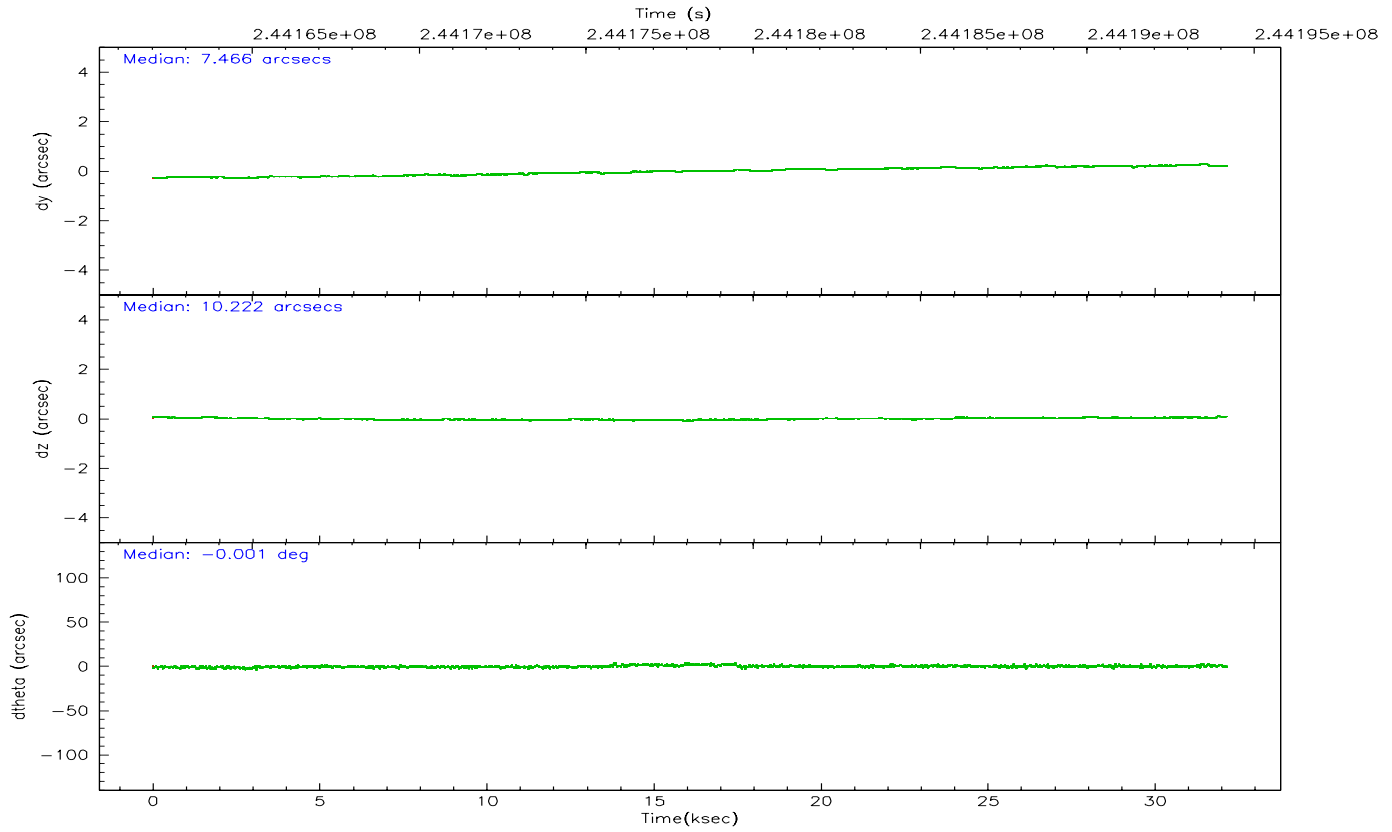
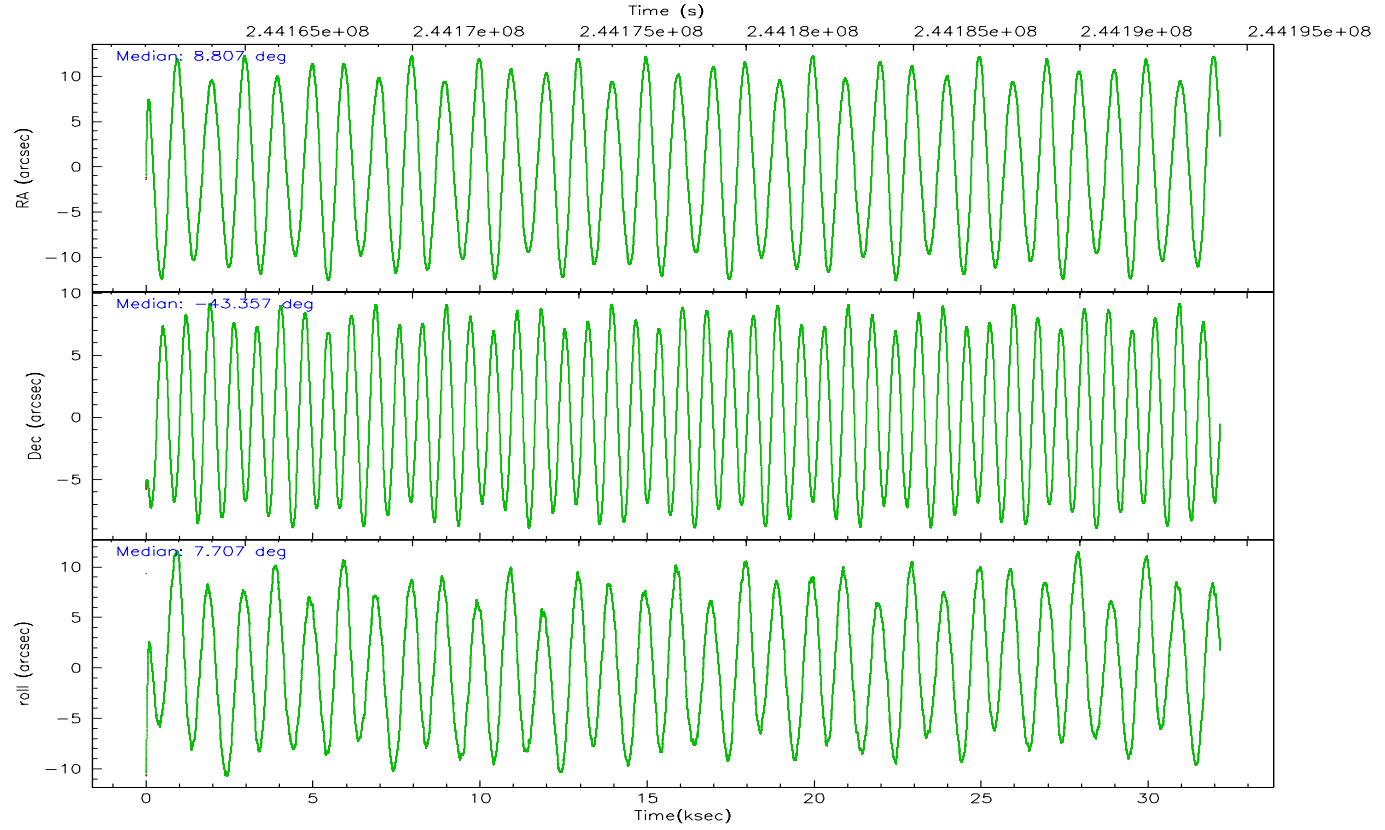
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	12563	11931	12421	12961	11258	6582
	5%	5%	5%	5%	4%	2%
grade 1 events	144	130	146	156	119	199
	0%	0%	0%	0%	0%	0%
grade 2 events	6257	6687	5741	5344	6311	31319
	2%	3%	2%	2%	2%	9%
grade 3 events	2749	3019	2628	2729	2786	5900
	1%	1%	1%	1%	1%	1%
grade 4 events	2610	2846	2590	2746	2691	5647
	1%	1%	1%	1%	1%	1%
grade 5 events	9420	10437	9190	10710	11402	21318
	4%	4%	3%	4%	4%	6%
grade 6 events	4978	6104	4550	4964	5923	74665
	2%	2%	1%	2%	2%	22%
grade 7 events	175442	177400	195055	188262	206390	182582
	81%	81%	83%	82%	83%	55%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-012367	ACIS-012367	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	On-chip summing requested	N	N
Observation mode	POINTING	POINTING	Subarray requested	NONE	NONE
Pointing RA	8.777691	8.807394072355876	Alternating exposures requested	N	N
Pointing Dec	-43.373607	-43.35678948838811	Primary exposure time	0.000000	3.2
Pointing Roll	7.480774	7.709851558989119			
SIM focus pos (mm)	-0.782348	-0.7809083437167272			
SIM defocus (mm)	0	0.001439871863259334			
SIM translation stage pos (mm)	-233.592463	-233.5874344608287			
SIM translation stage offset (mm)	0	-0.005018542100998502			
Observation start time	244162188.184000	244160320.64531			
Observation start date	2005-09-26T22:48:44	2005-09-26T22:18:40			
Observation end time	244194188.184000	244195584.23443			
Observation end date	2005-09-27T07:42:04	2005-09-27T08:06:24			
Read mode	TIMED	TIMED			

2.3 Aspect



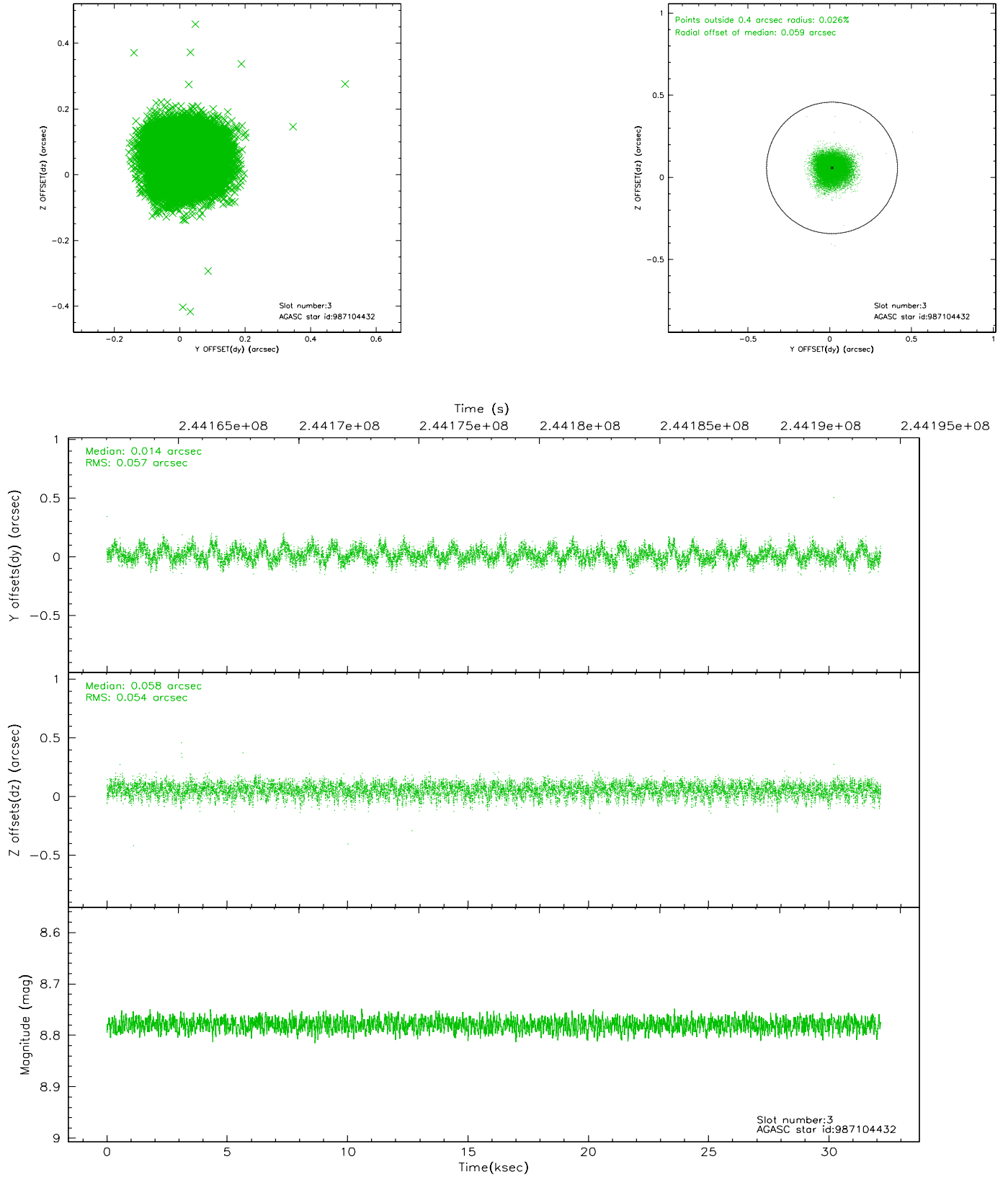


Slot Statistics

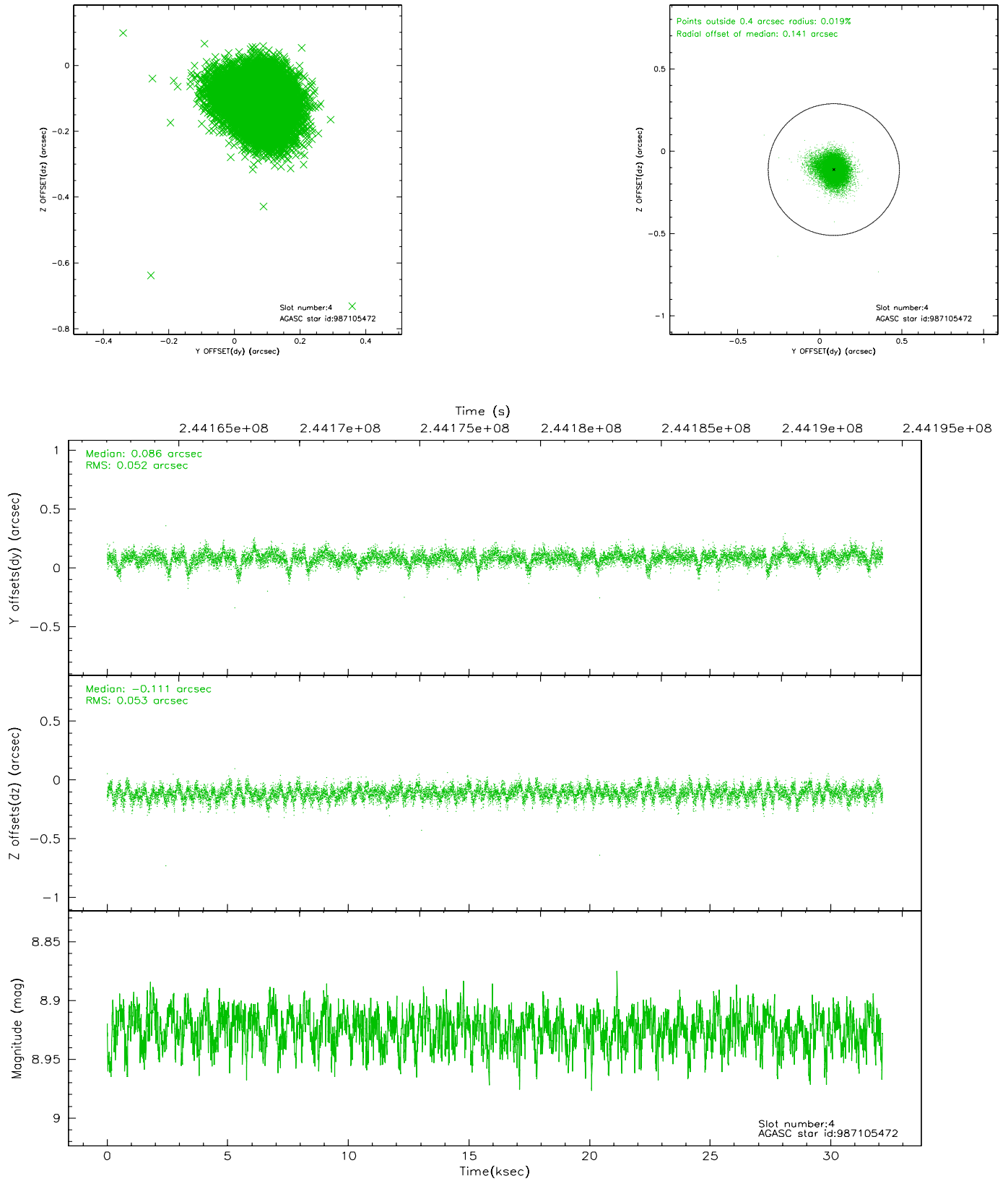
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.25	7843	-0.066	0.077	0.009	0.015	0.000000	0.000000	932.13	-833.64
1	FID	ACIS-I-2	7.15	7843	-0.096	-0.067	0.012	0.018	0.000000	0.000000	-761.95	-840.22
2	FID	ACIS-I-4	7.18	7842	0.064	0.057	0.012	0.019	0.000000	0.000000	2152.16	1066.10
3	GUIDE	987104432	8.78	15677	0.014	0.058	0.084	0.132	8.127720	-44.065974	-1991.92	-2258.82
4	GUIDE	987105472	8.92	15679	0.086	-0.111	0.078	0.131	9.076108	-43.240154	837.99	372.94
5	GUIDE	987109640	9.17	15672	0.021	0.121	0.115	0.180	9.479319	-43.964881	1525.21	-2354.46
6	GUIDE	987110288	9.47	15668	-0.057	0.004	0.114	0.177	8.853930	-43.126927	314.73	854.30
7	GUIDE	987105008	8.50	15676	-0.063	-0.065	0.077	0.120	8.512368	-44.078521	-1010.44	-2427.70

2.4 Star Slots

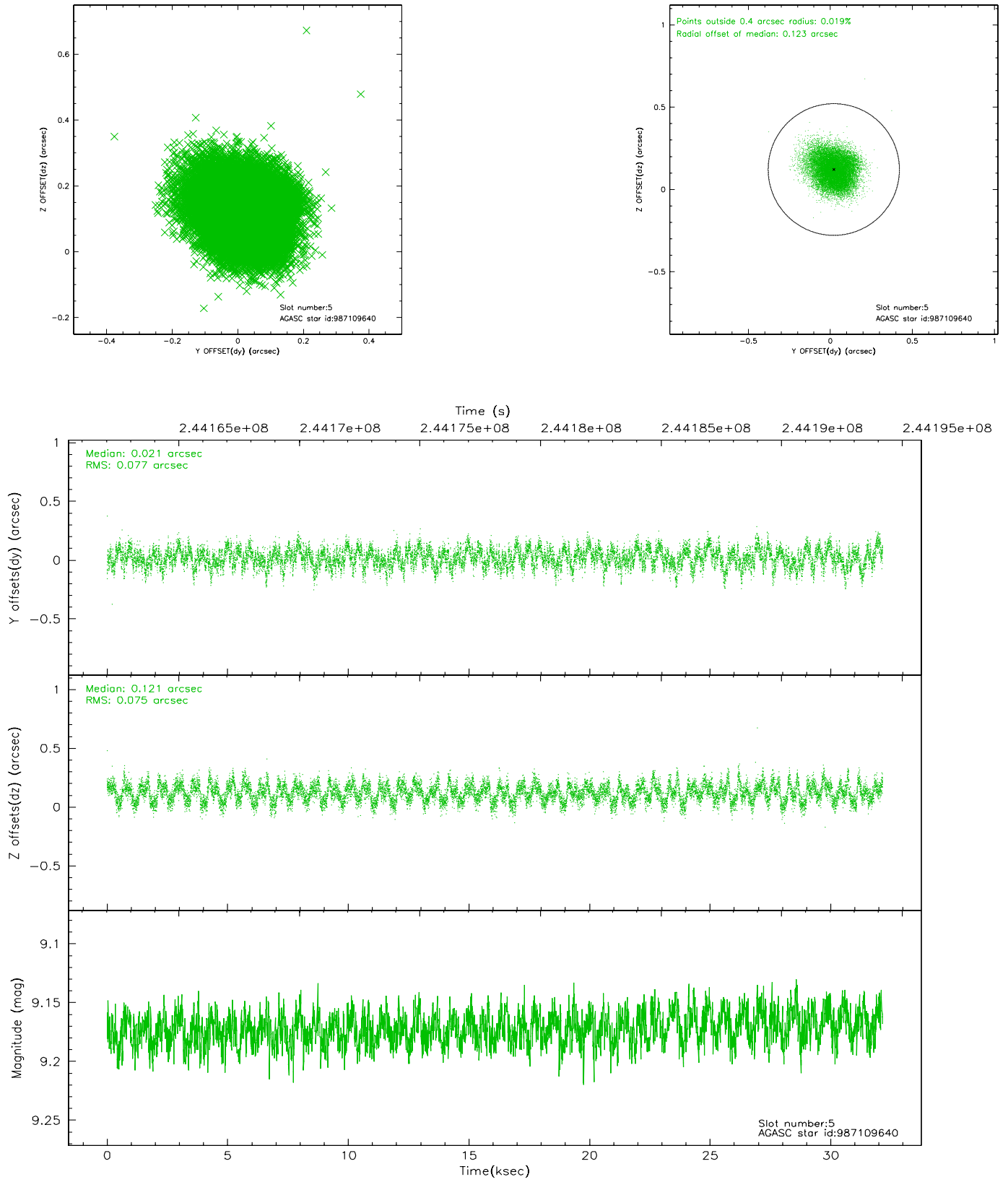
2.4.1 Slot 3



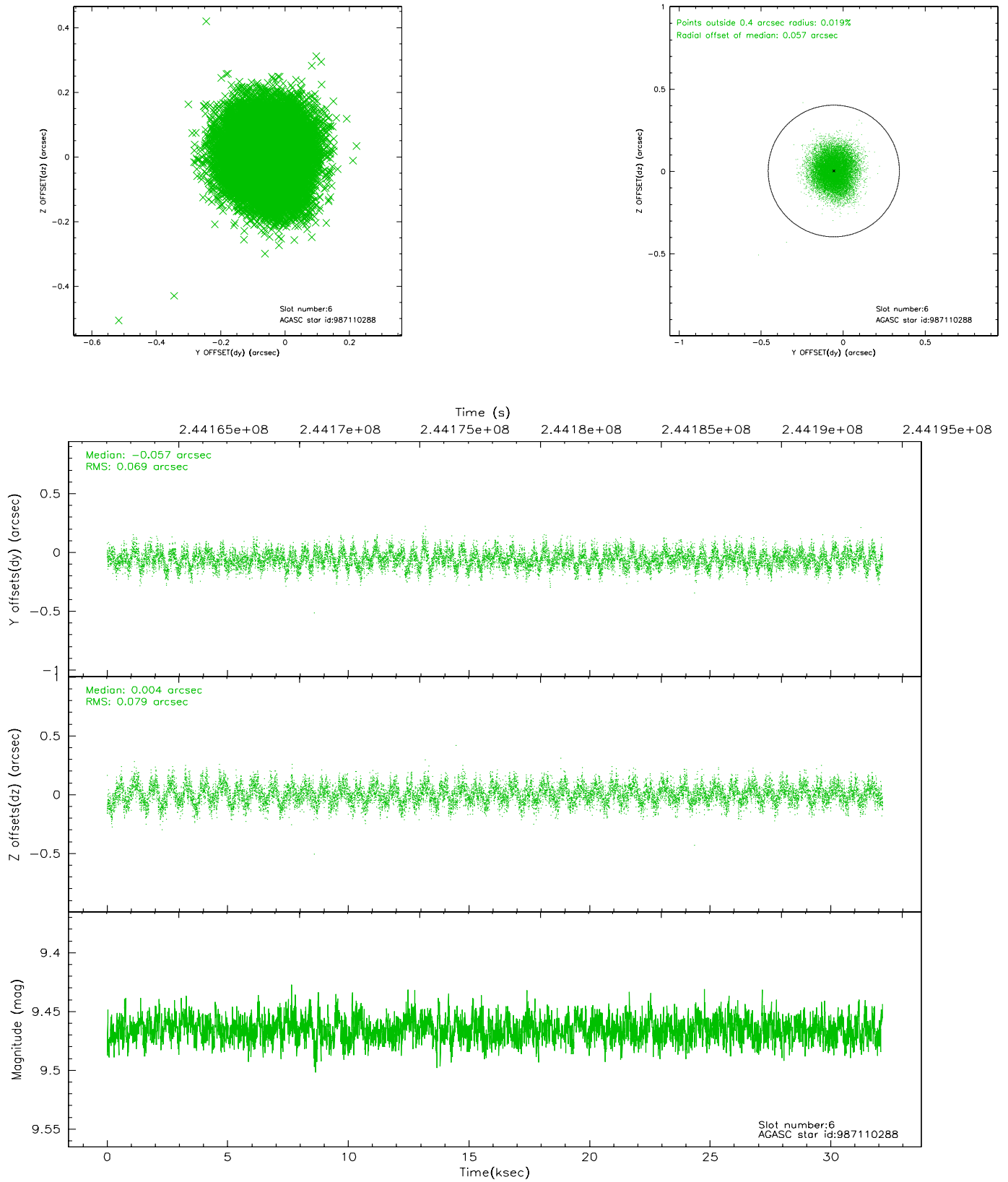
2.4.2 Slot 4



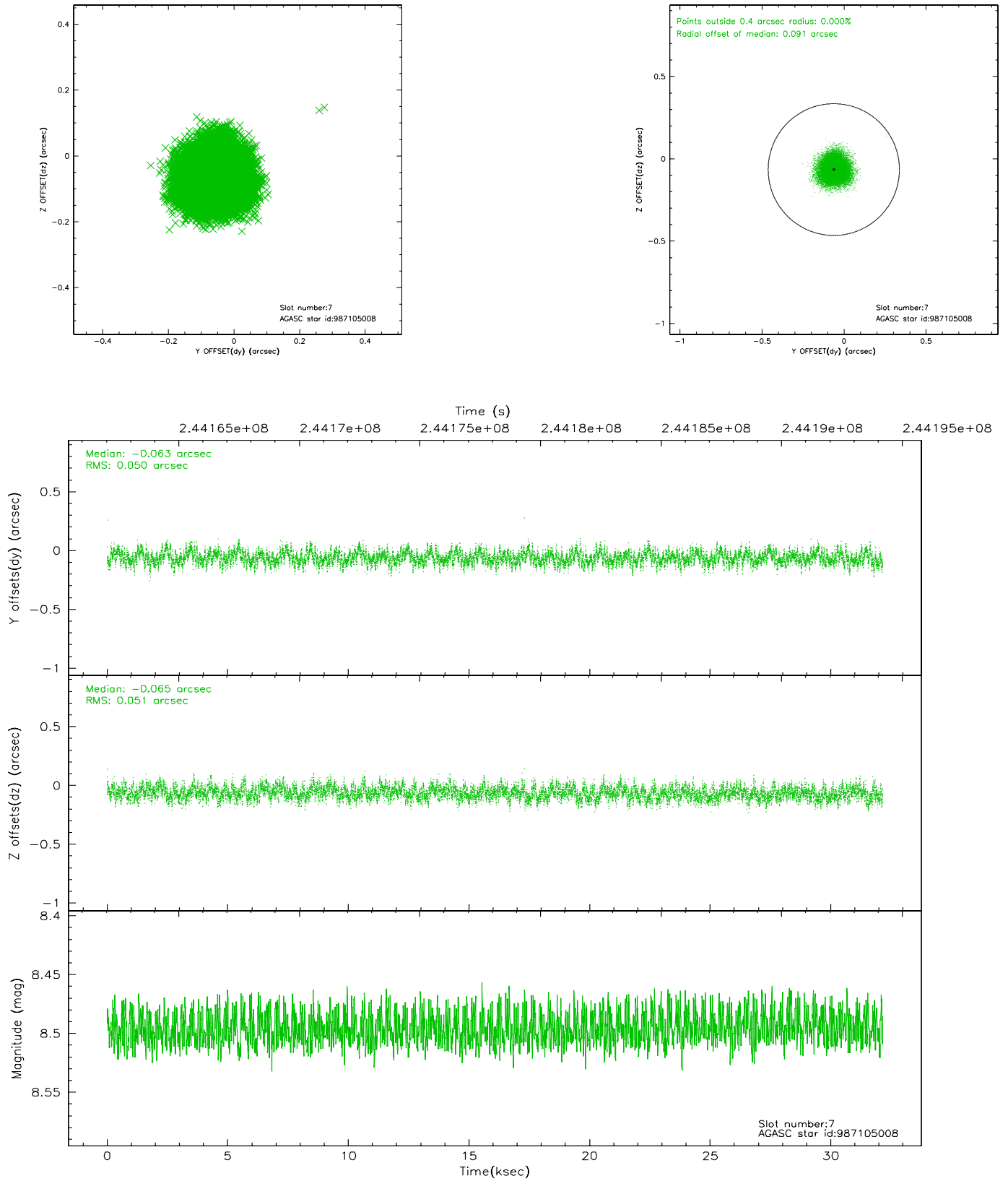
2.4.3 Slot 5



2.4.4 Slot 6

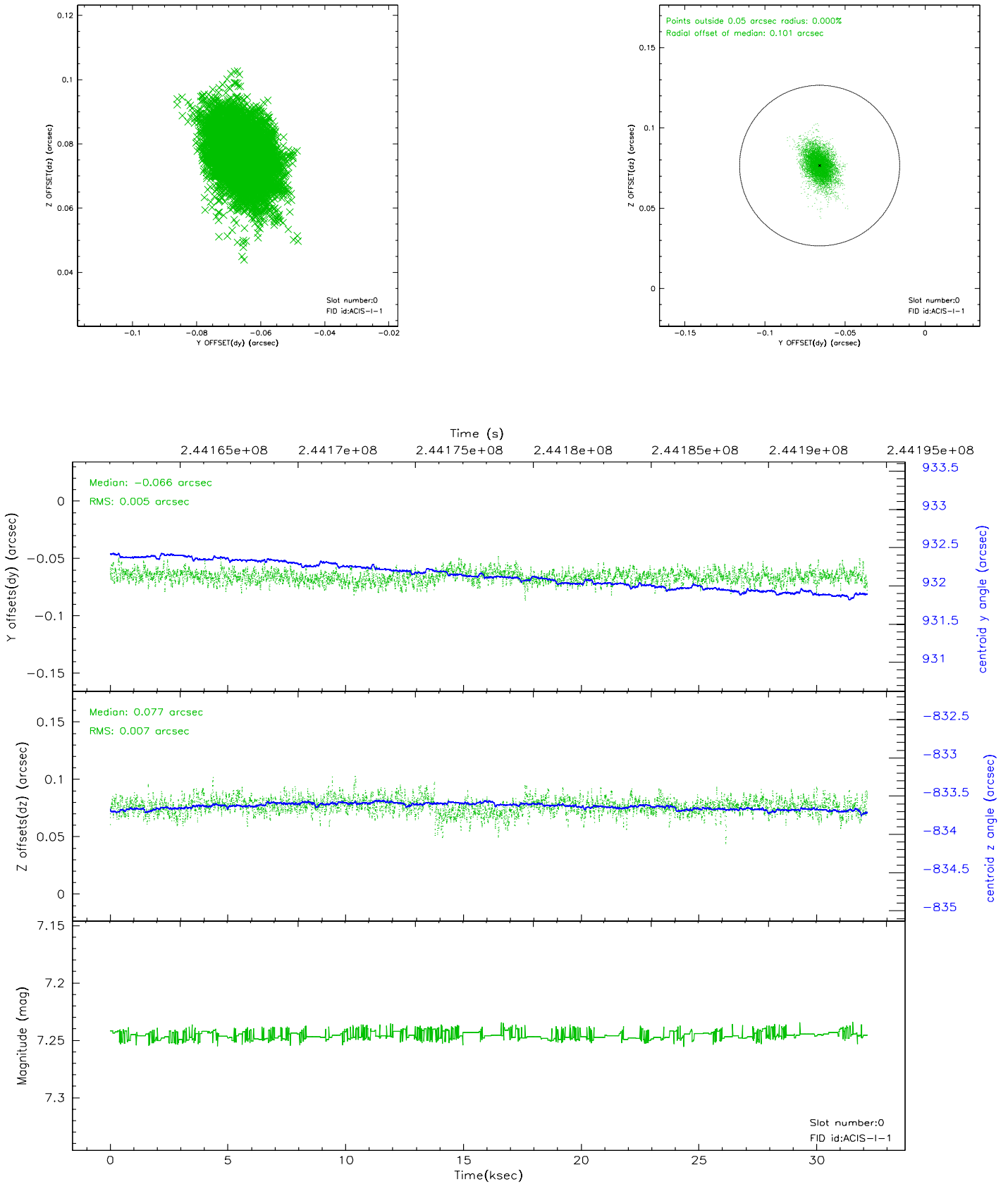


2.4.5 Slot 7

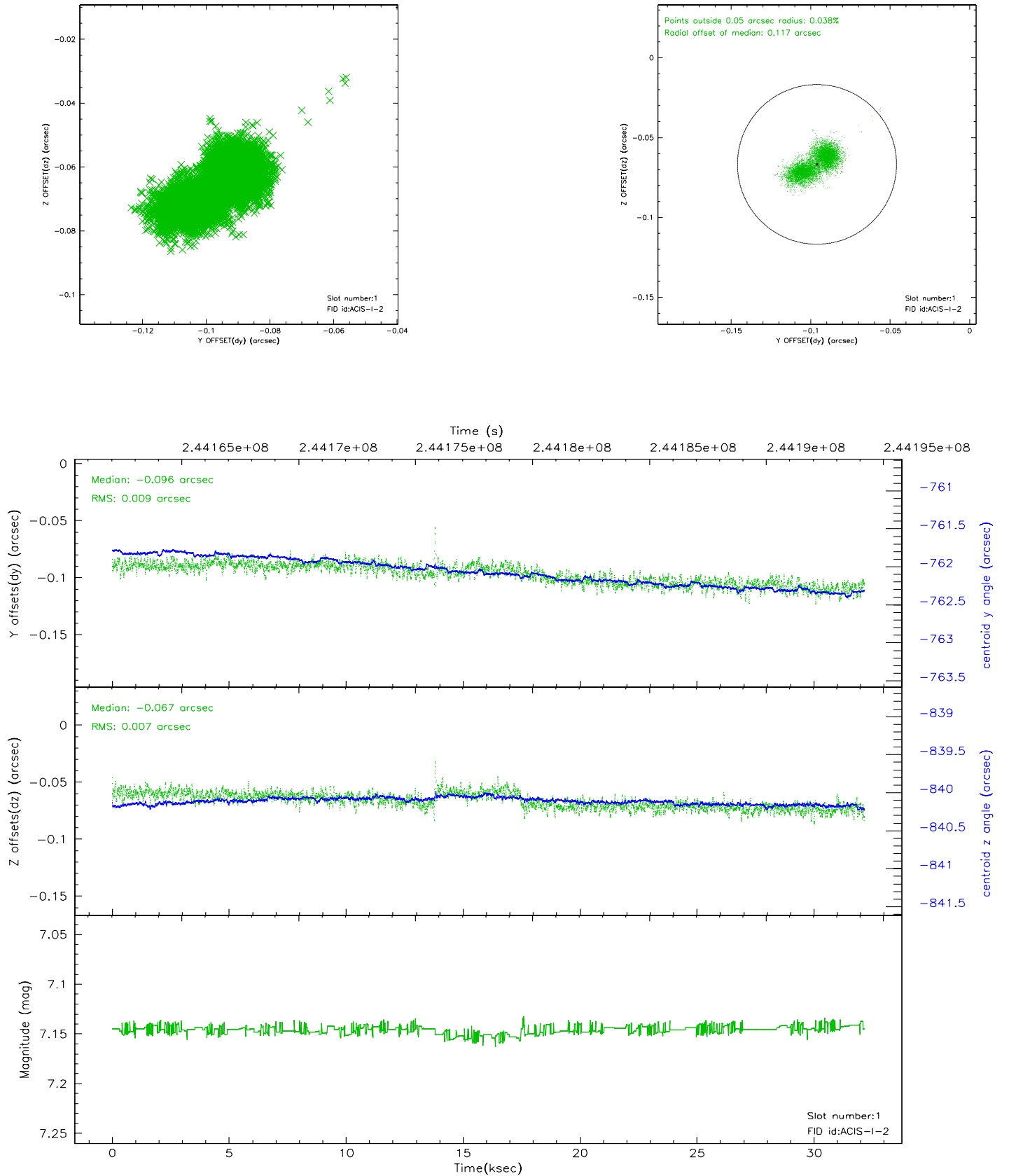


2.5 FID Slots

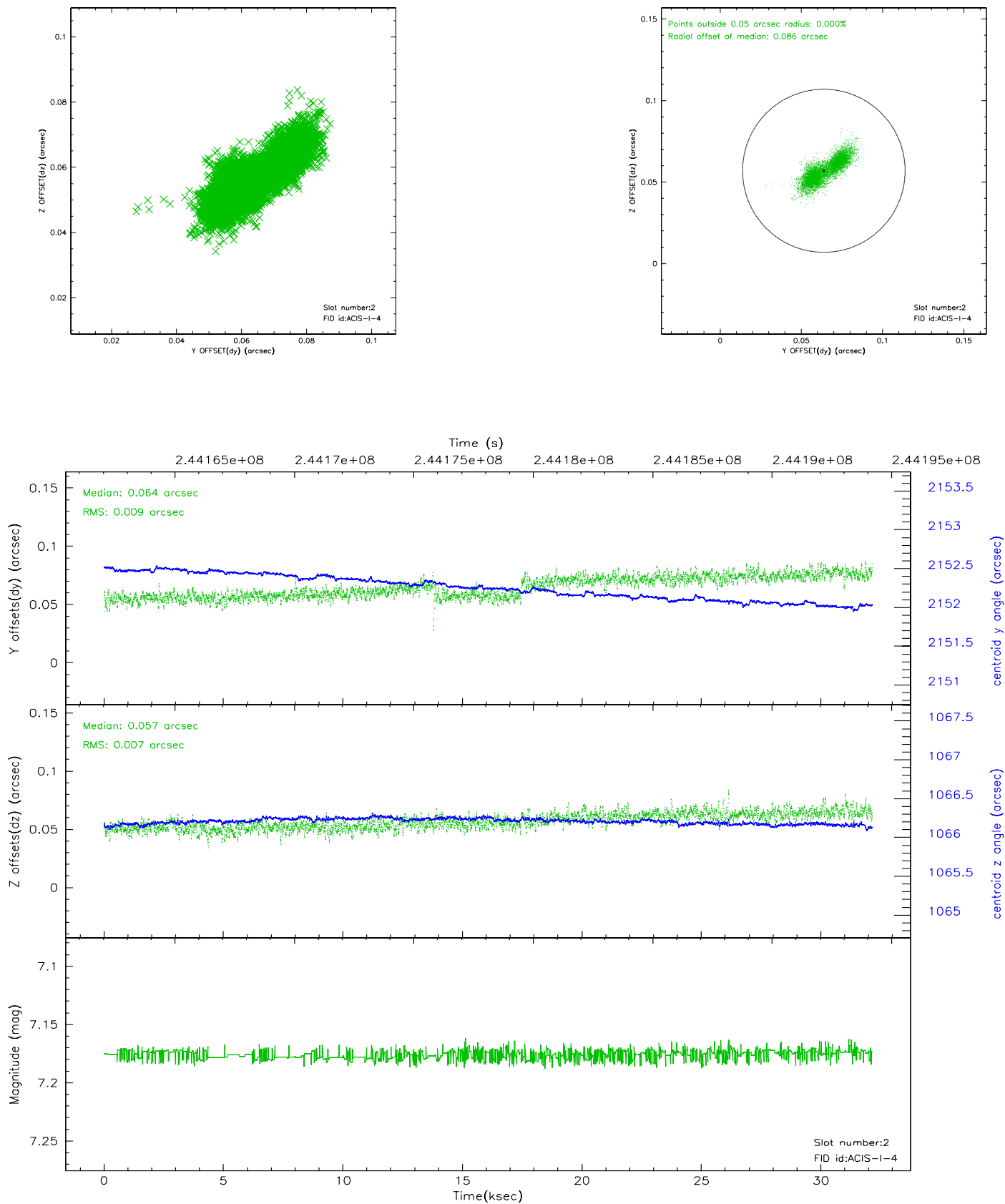
2.5.1 Slot 0



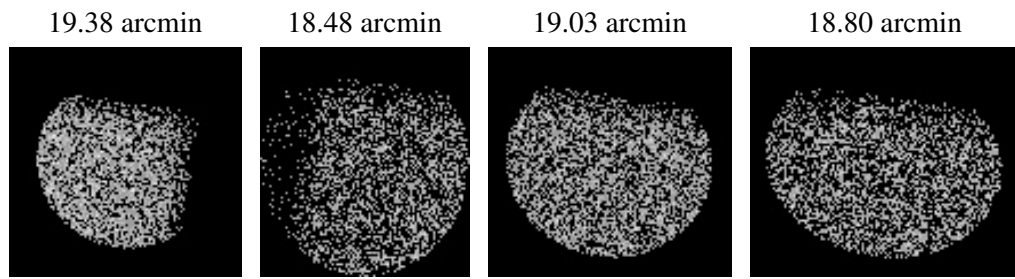
2.5.2 Slot 1



2.5.3 Slot 2



3 Point Sources



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2006.03.26
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	32.15039

A.2 Comments

As a consequence of the DEA-A shutdown anomaly on Sep 15th (DOY258), the the reported value of the ACIS FP temperature was ~1.3 degrees warmer than the actual temperature. GOs should subtract 1.3 degrees from the reported temperature to determine the true temperature. In addition the FP temperature was not regulating during this period. The FP temperature fluctuated between -121.3 C and -118.8 C during this time. For analysis of line-dominated spectra from the FI CCDs, GOs might notice a systematic gain shift by up to 0.5%, either towards higher/lower energies depending on if the FP temperature was colder/warmer than -119.7 C. Analysis of line-dominated spectra on S3 are mostly unaffected (where mostly unaffected means that the changes are smaller than the current uncertainties in the calibration). Analysis of continuum-dominated spectra on both the FI and BI CCDs are mostly unaffected. Imaging analysis on both the FI and BI CCDs are mostly unaffected.