

V&V Reference Report

L2 ASCDS Version : 7.6.7.1

Observation 6217 - L2 Version 002
Chandra X-Ray Center

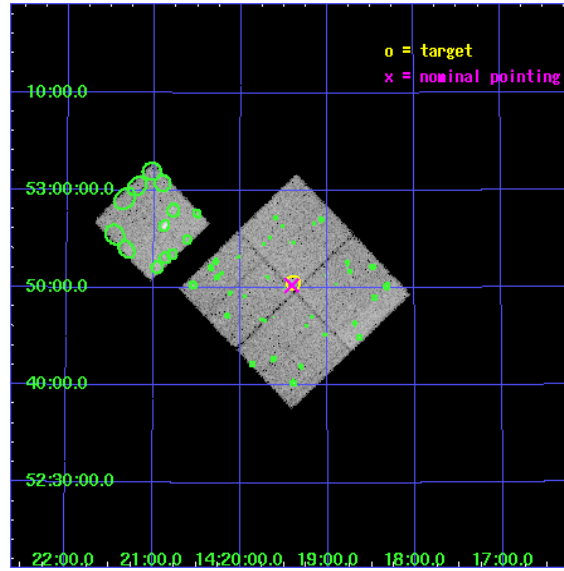
L2 Processing Date : Mar 25 2006

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1 Front

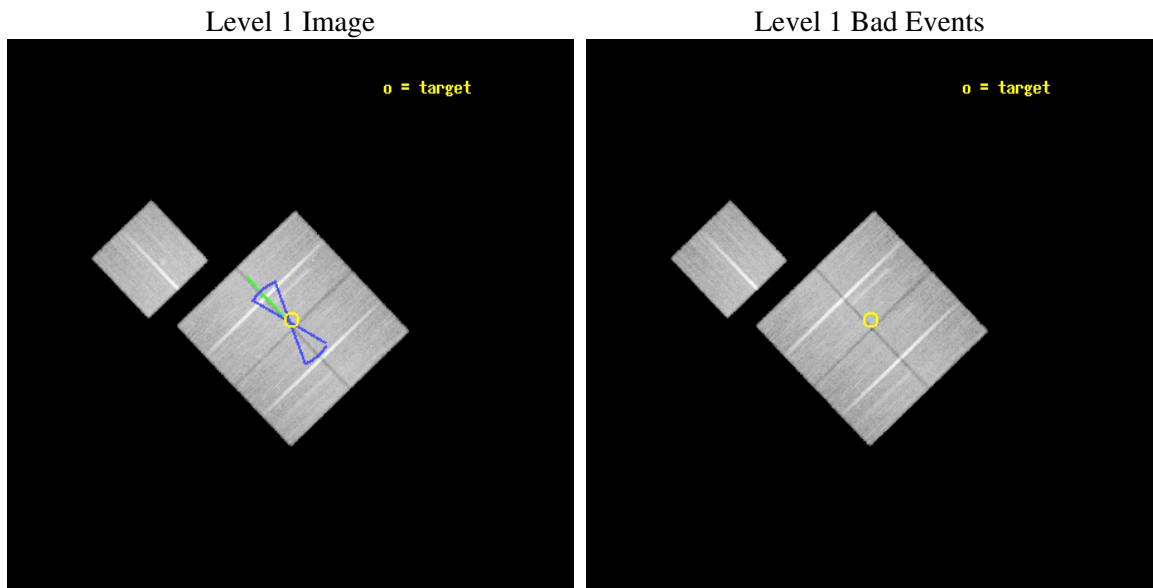
seq_num	900351
obs_id	6217
title	Deep Chandra Imaging of the Extended Groth Strip: The Co-evolution of Black Holes and Galaxies
observer	Professor Kirpal Nandra
object	EGS-4
dtcycle	0
cycle	P
ra_targ	214.849579
dec_targ	52.842415
ra_nom	214.85259183215
dec_nom	52.838164592714
roll_nom	316.20628518296
revision	2
ontime	50154.77697283
livetime	49499.467888271
ontime0	50164.199903548
ontime1	50161.058943301
ontime2	50164.199903548
ontime3	50154.77697283
ontime6	50164.199903548
l2events	124108



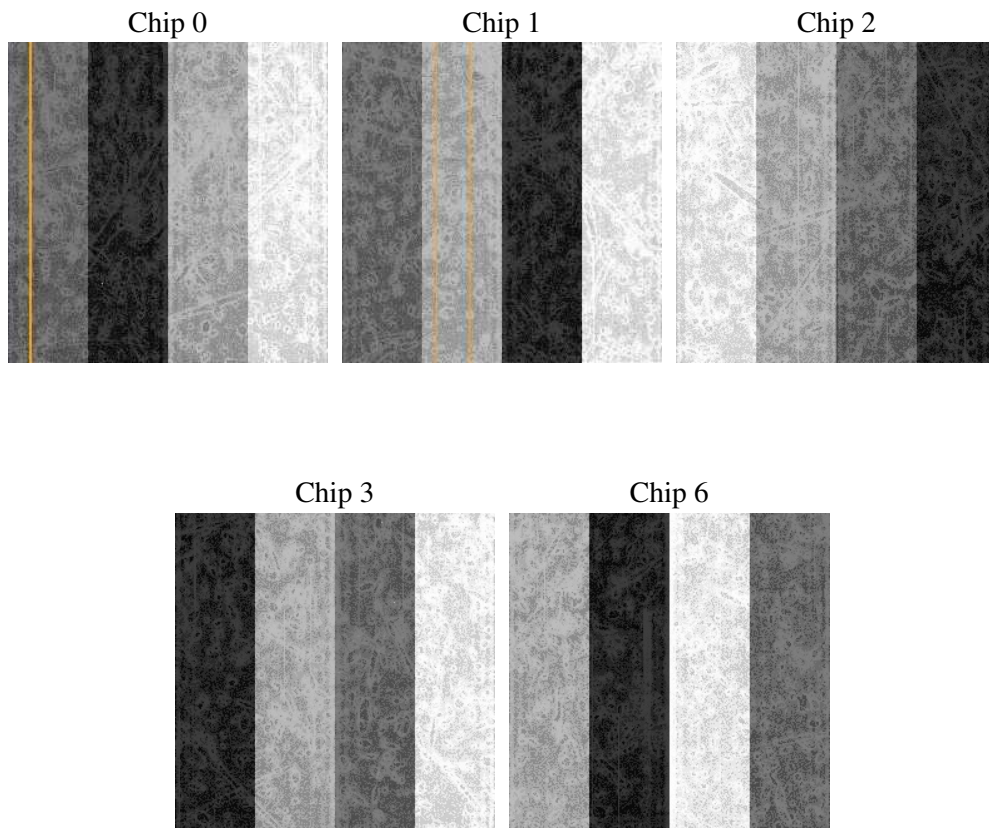
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0
ascdsver	7.6.7.1
caldbver	3.2.1
date	2006-03-25T22:52:33
revision	2

sched_exp_time	50000.000000
ontime	50576.418375969
ontime0	50585.841306686
ontime1	50582.70034644
ontime2	50585.841306686
ontime3	50576.418375969
ontime6	50585.841336608
l1events	1411788

2.1.4 Events

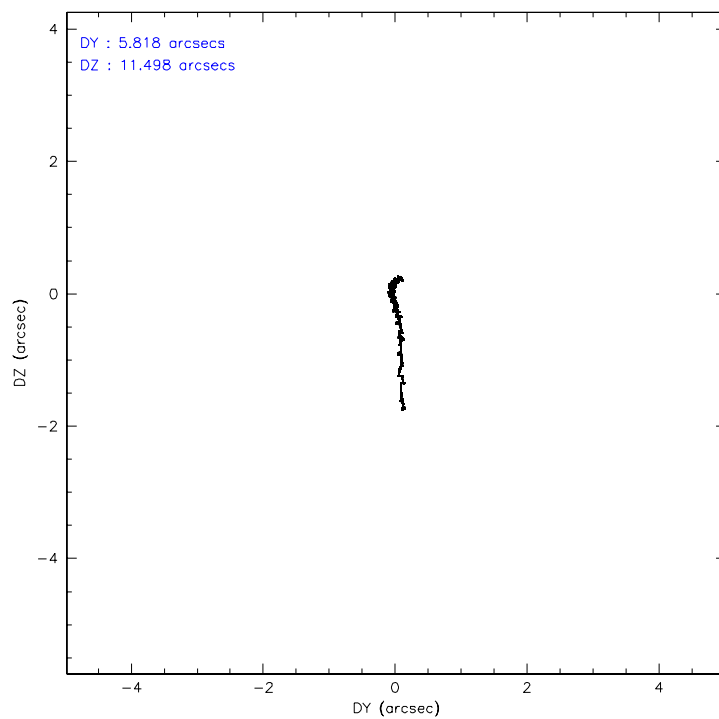
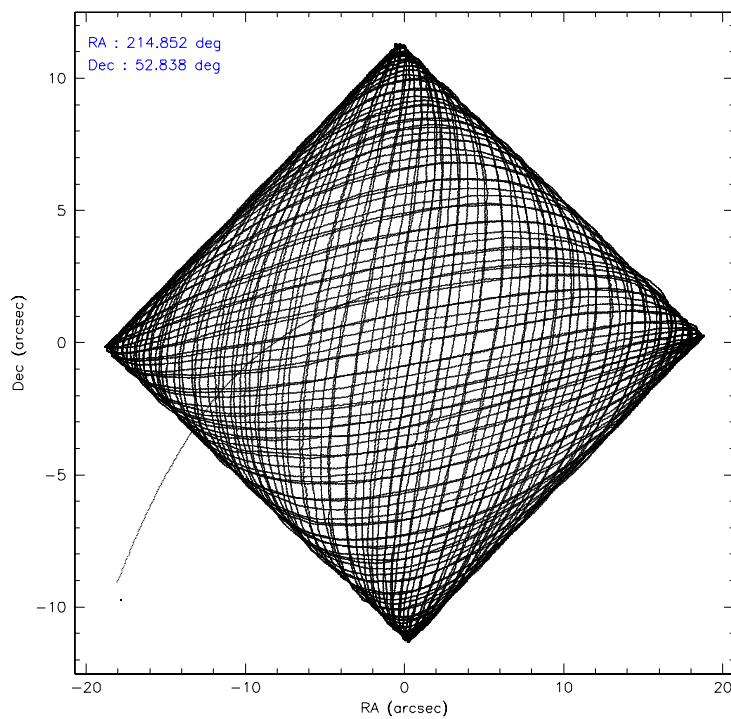
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	268632	267755	295870	287037	292494
rejected events	239595	235178	267237	259524	261471
rejected %	89%	87%	90%	90%	89%

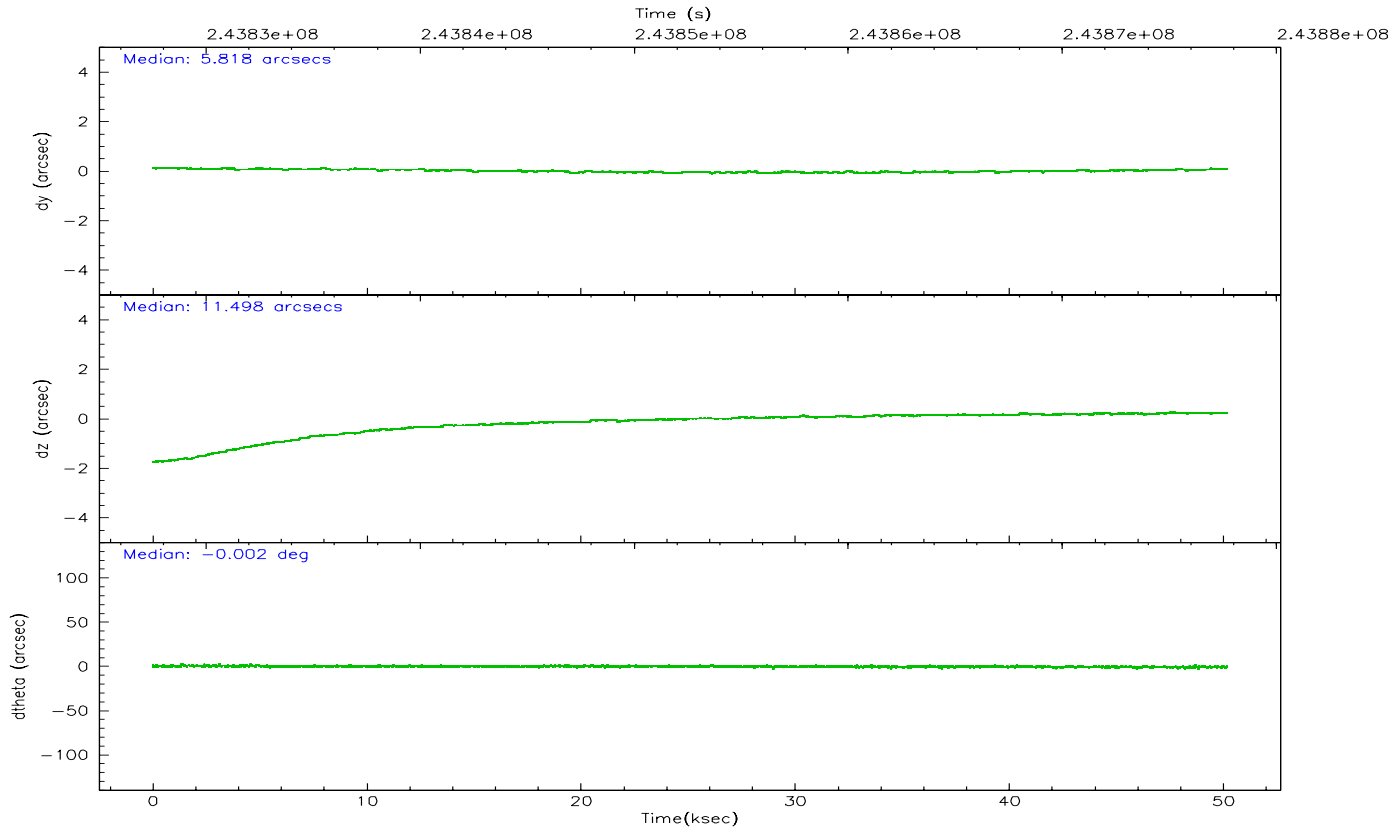
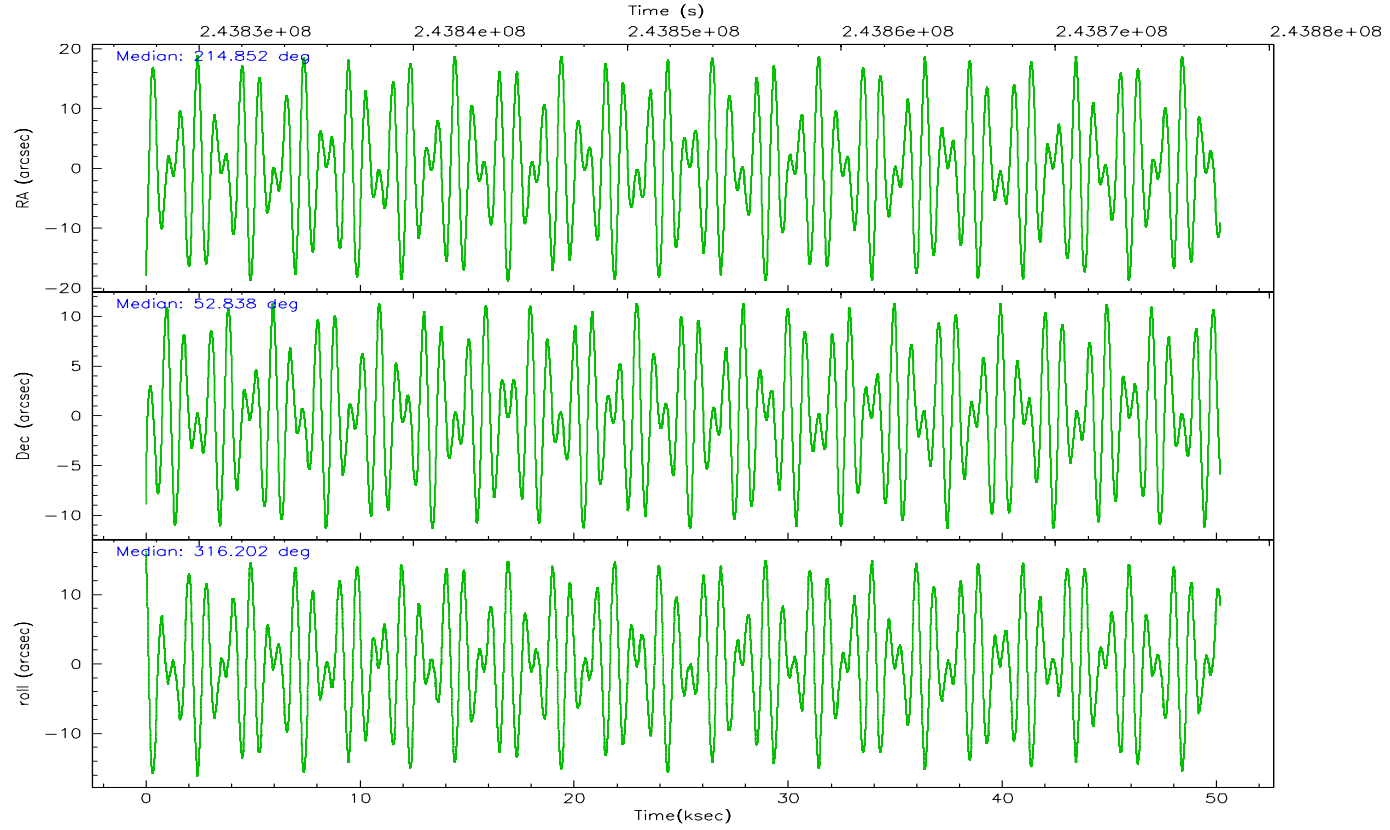
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	10028	11664	10396	9475	11241
	3%	4%	3%	3%	3%
grade 1 events	129	137	170	160	135
	0%	0%	0%	0%	0%
grade 2 events	7139	7154	6755	6159	6720
	2%	2%	2%	2%	2%
grade 3 events	3406	3617	3118	3127	3452
	1%	1%	1%	1%	1%
grade 4 events	3031	3613	3157	3274	3314
	1%	1%	1%	1%	1%
grade 5 events	10209	11287	9771	12002	11958
	3%	4%	3%	4%	4%
grade 6 events	5663	6771	5470	5684	6560
	2%	2%	1%	1%	2%
grade 7 events	229027	223512	257033	247156	249114
	85%	83%	86%	86%	85%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-01236	ACIS-01236	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	On-chip summing requested	N	N
Observation mode	POINTING	POINTING	Subarray requested	NONE	NONE
Pointing RA	214.808533	214.8525918321478	Alternating exposures requested	N	N
Pointing Dec	52.844568	52.83816459271414	Primary exposure time	0.000000	3.1
Pointing Roll	316.032711	316.2062851829585			
Roll angle	50.756000	50.756000			
Roll tolerance	20.000000	20.000000			
Roll constraint allows 180D rotation	Y	Y			
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	243827693.184000	243826499.14246			
Observation start date	2005-09-23T01:53:49	2005-09-23T01:34:59			
Observation end time	243877693.184000	243878496.88235			
Observation end date	2005-09-23T15:47:09	2005-09-23T16:01:36			
Read mode	TIMED	TIMED			

2.3 Aspect



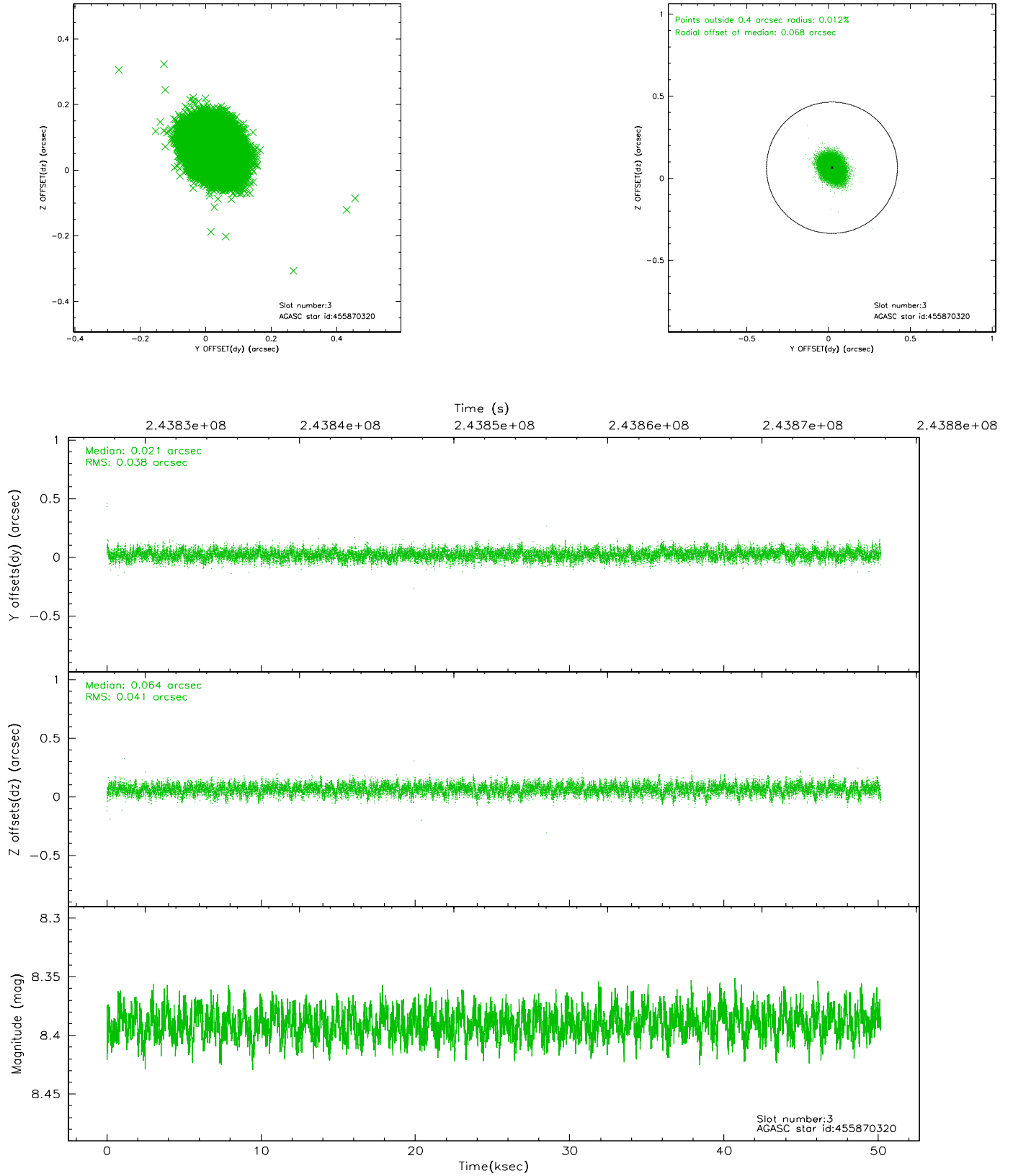


Slot Statistics

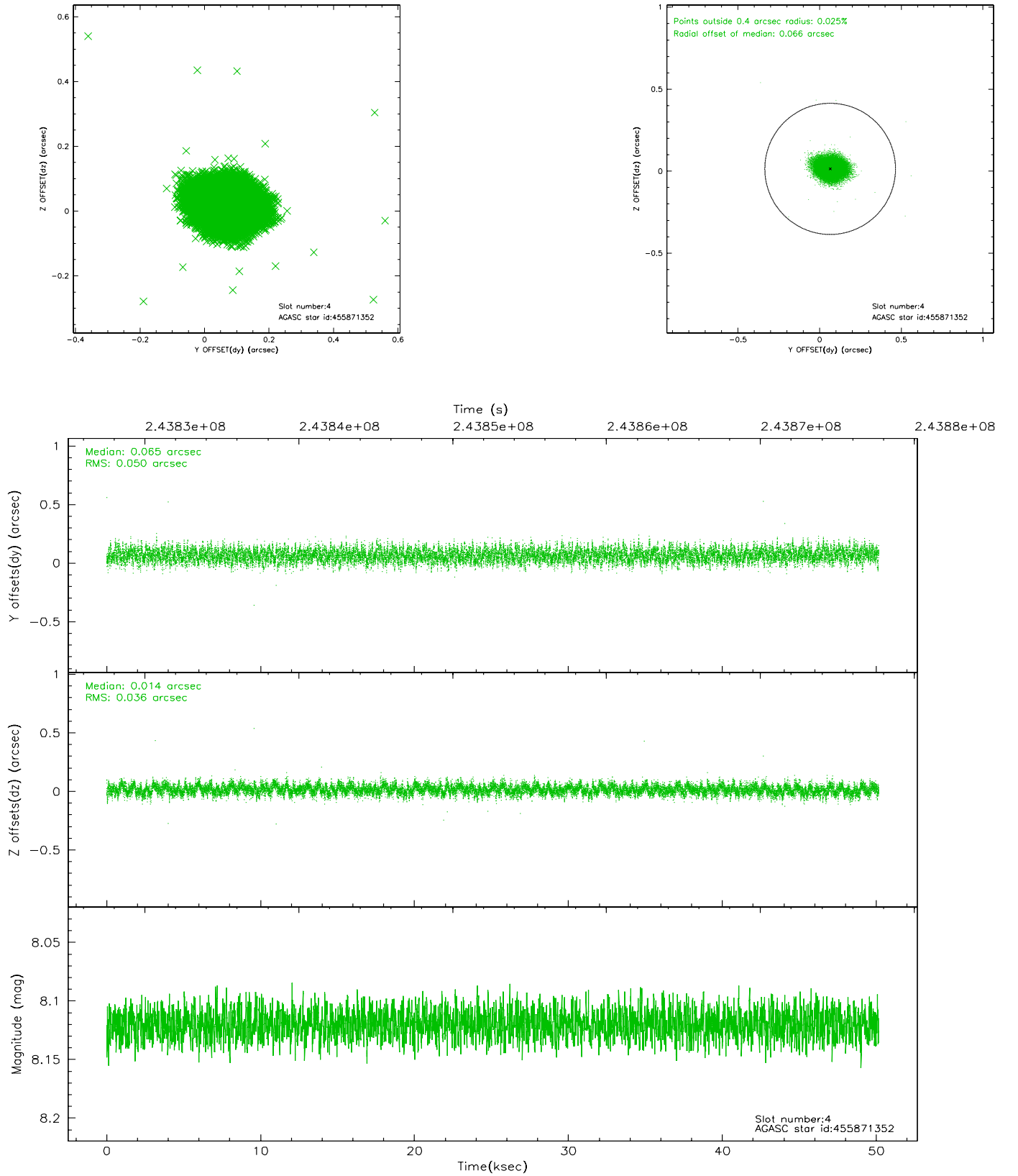
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-2	7.14	12235	-0.055	-0.090	0.015	0.038	0.000000	0.000000	-760.34	-841.25
1	FID	ACIS-I-4	7.18	12237	0.046	0.062	0.009	0.022	0.000000	0.000000	2153.82	1065.08
2	FID	ACIS-I-5	7.22	12237	-0.090	0.097	0.014	0.036	0.000000	0.000000	-1814.23	1062.94
3	GUIDE	455870320	8.39	24473	0.021	0.064	0.059	0.097	214.874440	52.401638	1211.74	-1046.73
4	GUIDE	455871352	8.12	24471	0.065	0.014	0.065	0.105	215.099961	52.172669	2142.09	-1292.95
5	GUIDE	505812088	8.14	24470	0.079	-0.050	0.066	0.102	214.186617	53.263562	-2014.53	160.09
6	GUIDE	505812376	7.67	24471	-0.183	0.042	0.059	0.092	214.039537	52.937930	-1440.19	-909.80
7	GUIDE	455870296	7.34	24472	0.017	-0.069	0.073	0.117	214.629779	52.033323	1742.85	-2376.26

2.4 Star Slots

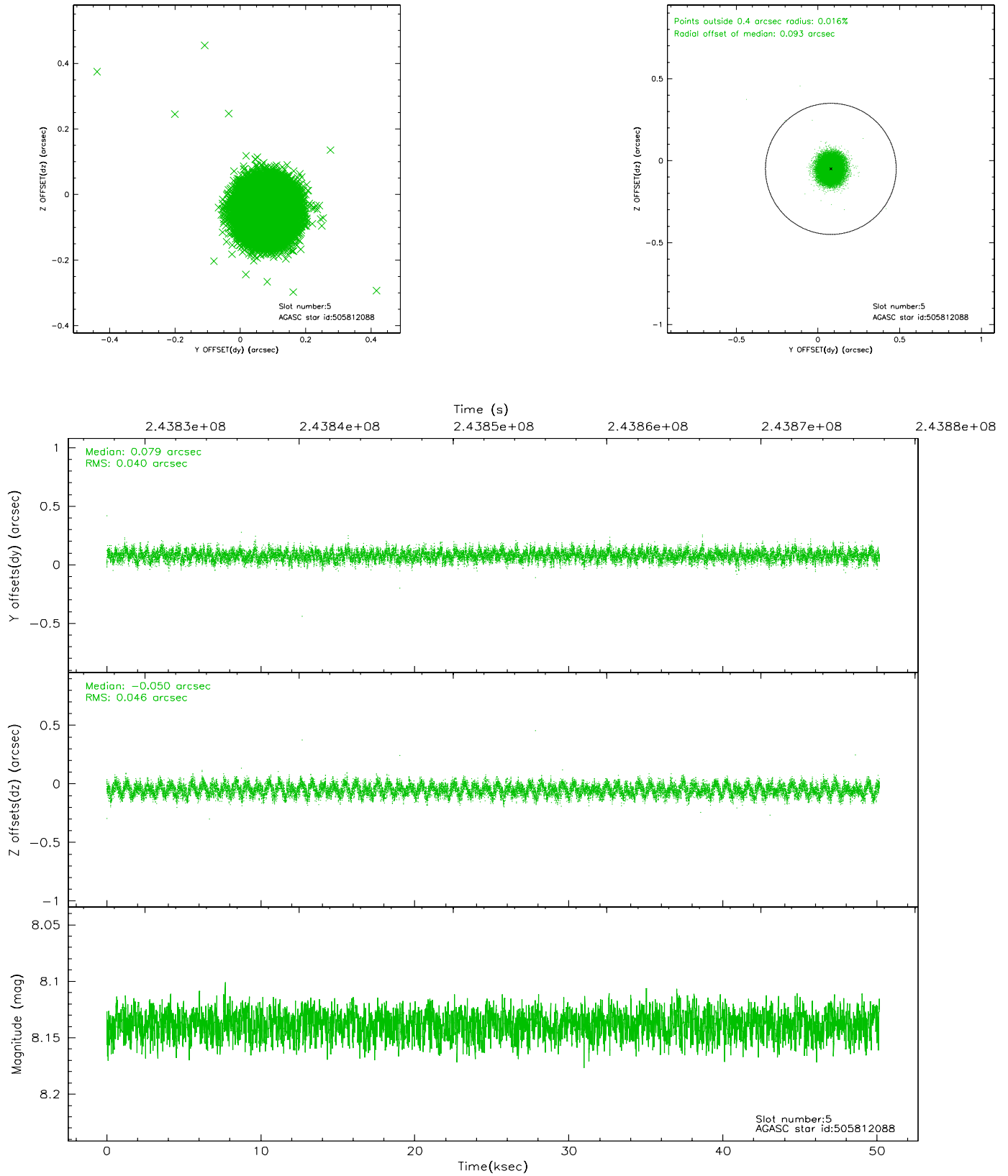
2.4.1 Slot 3



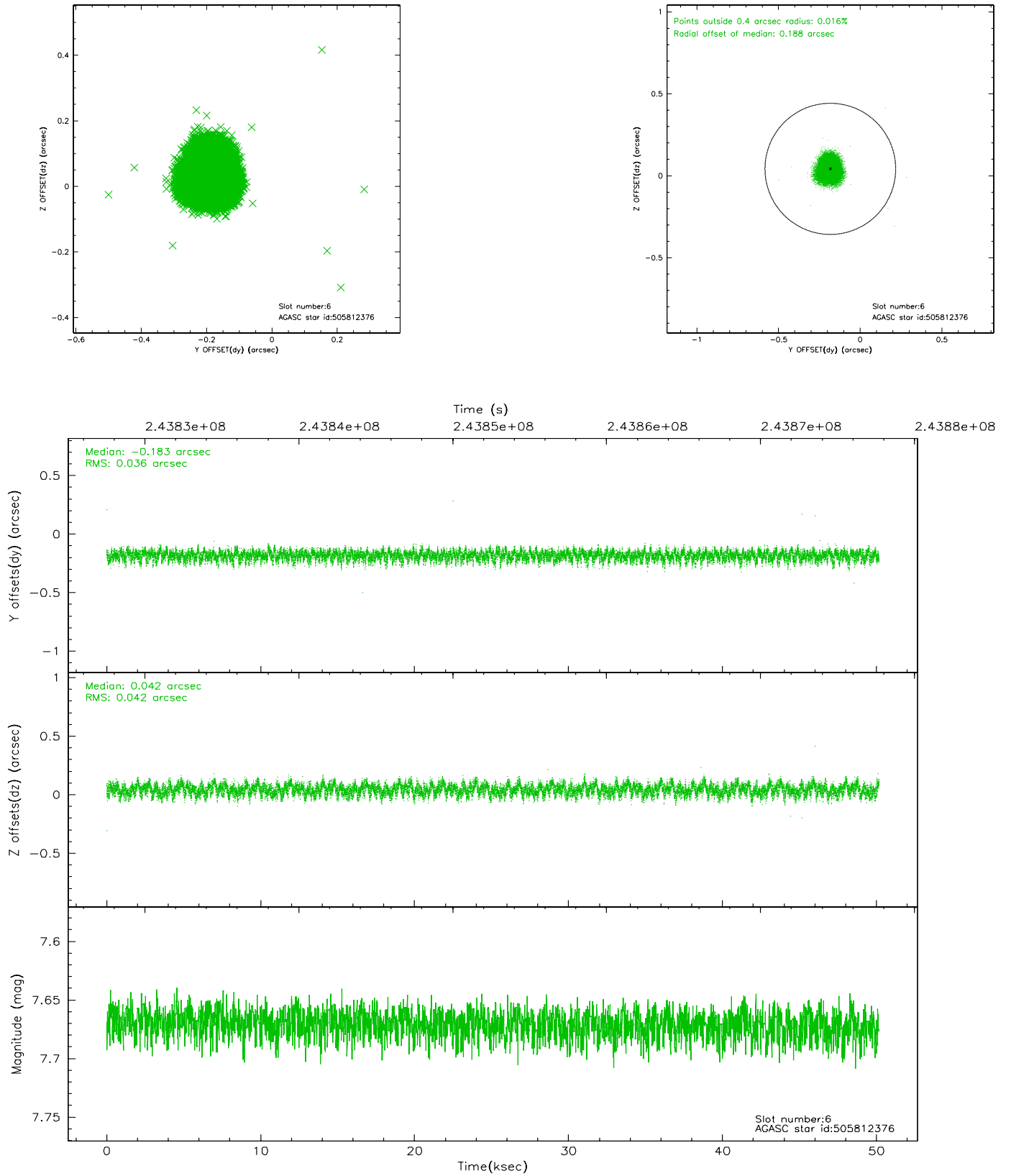
2.4.2 Slot 4



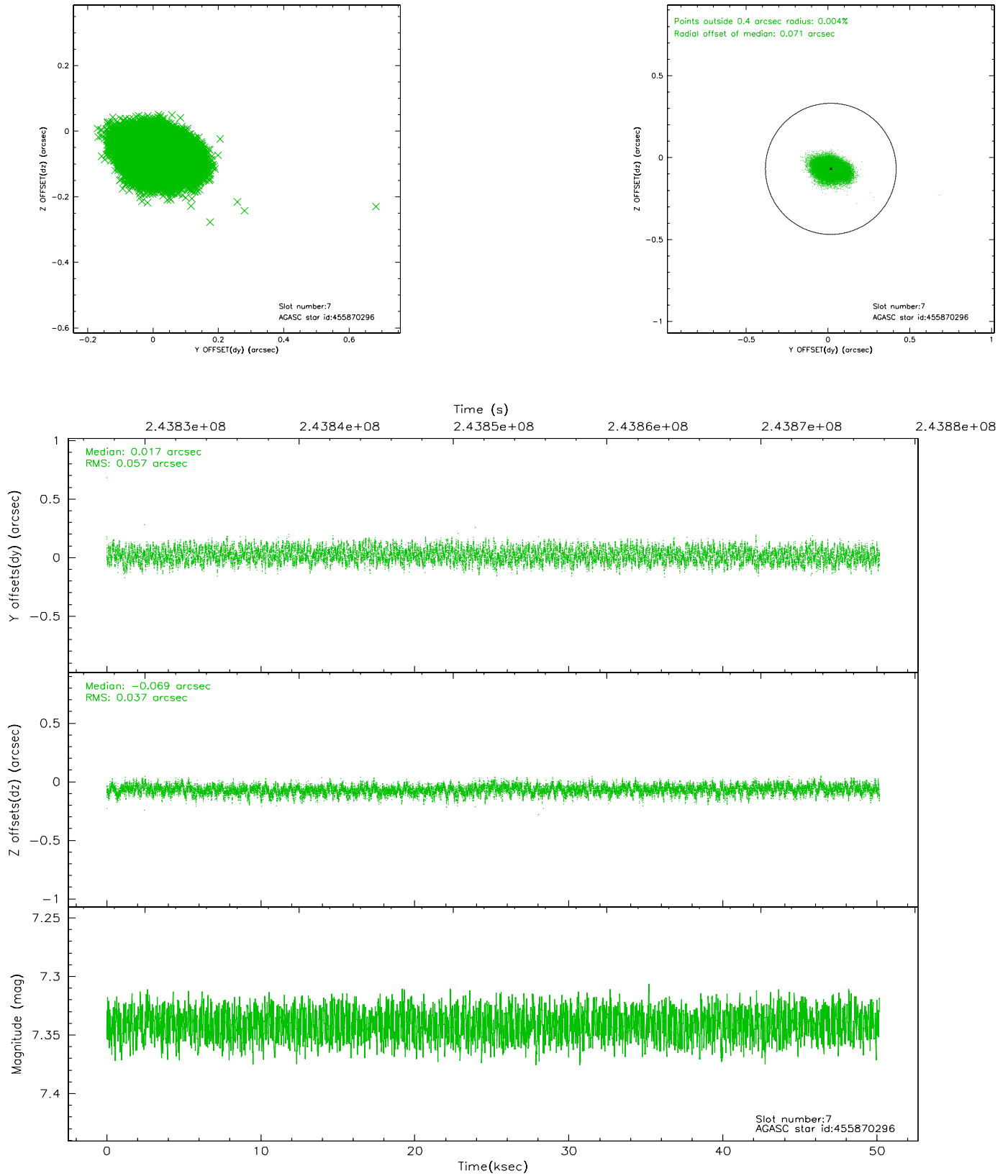
2.4.3 Slot 5



2.4.4 Slot 6

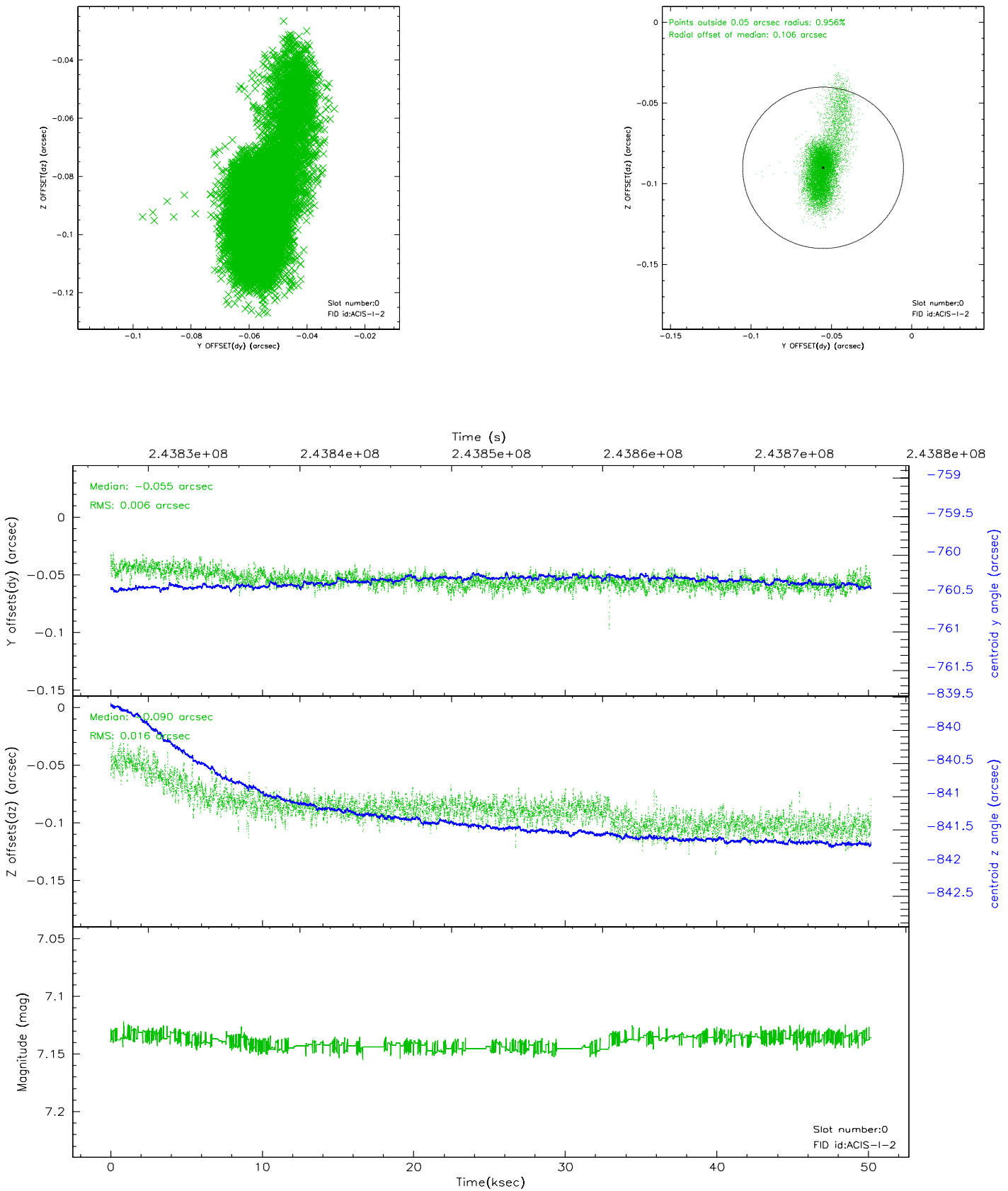


2.4.5 Slot 7

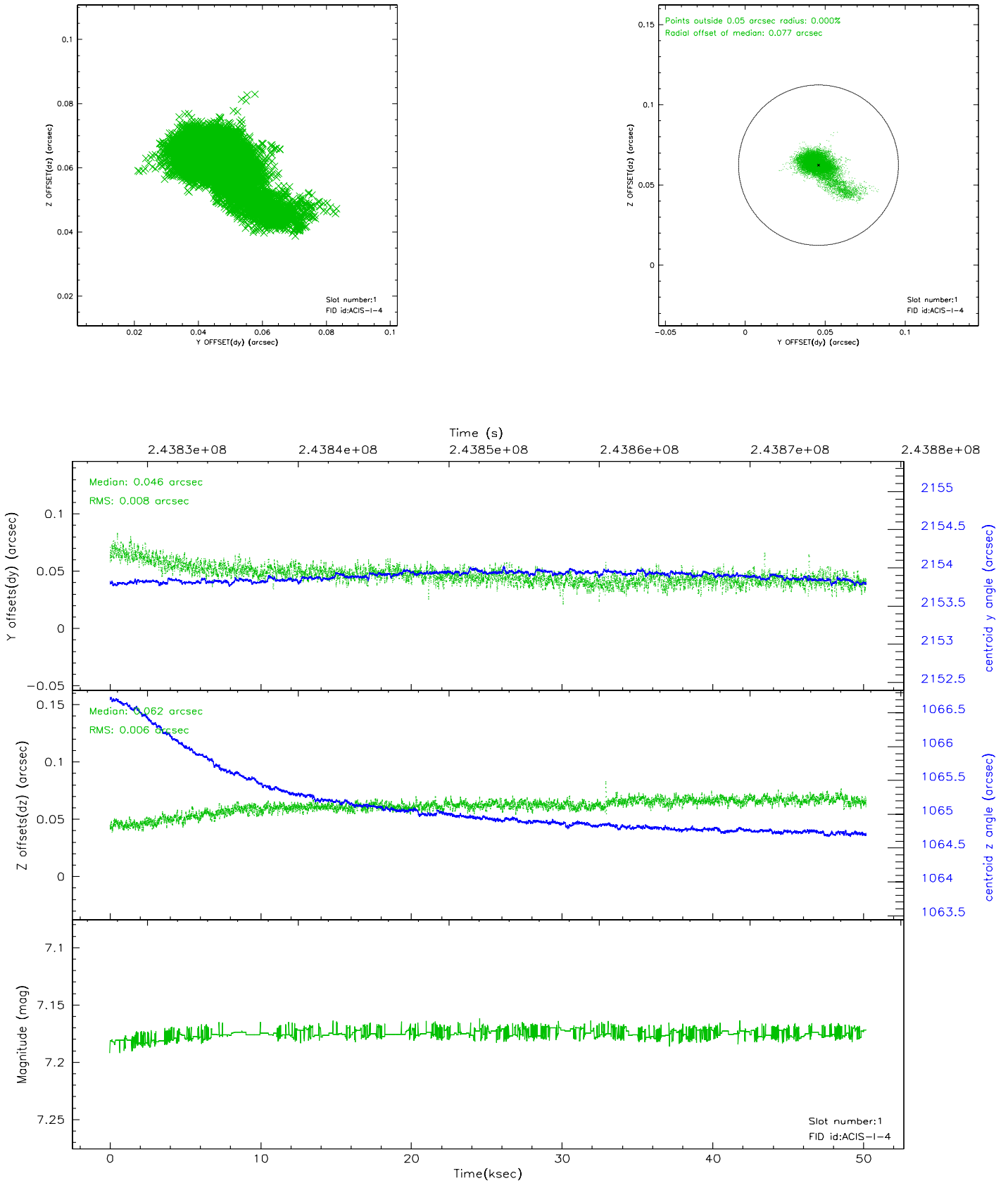


2.5 FID Slots

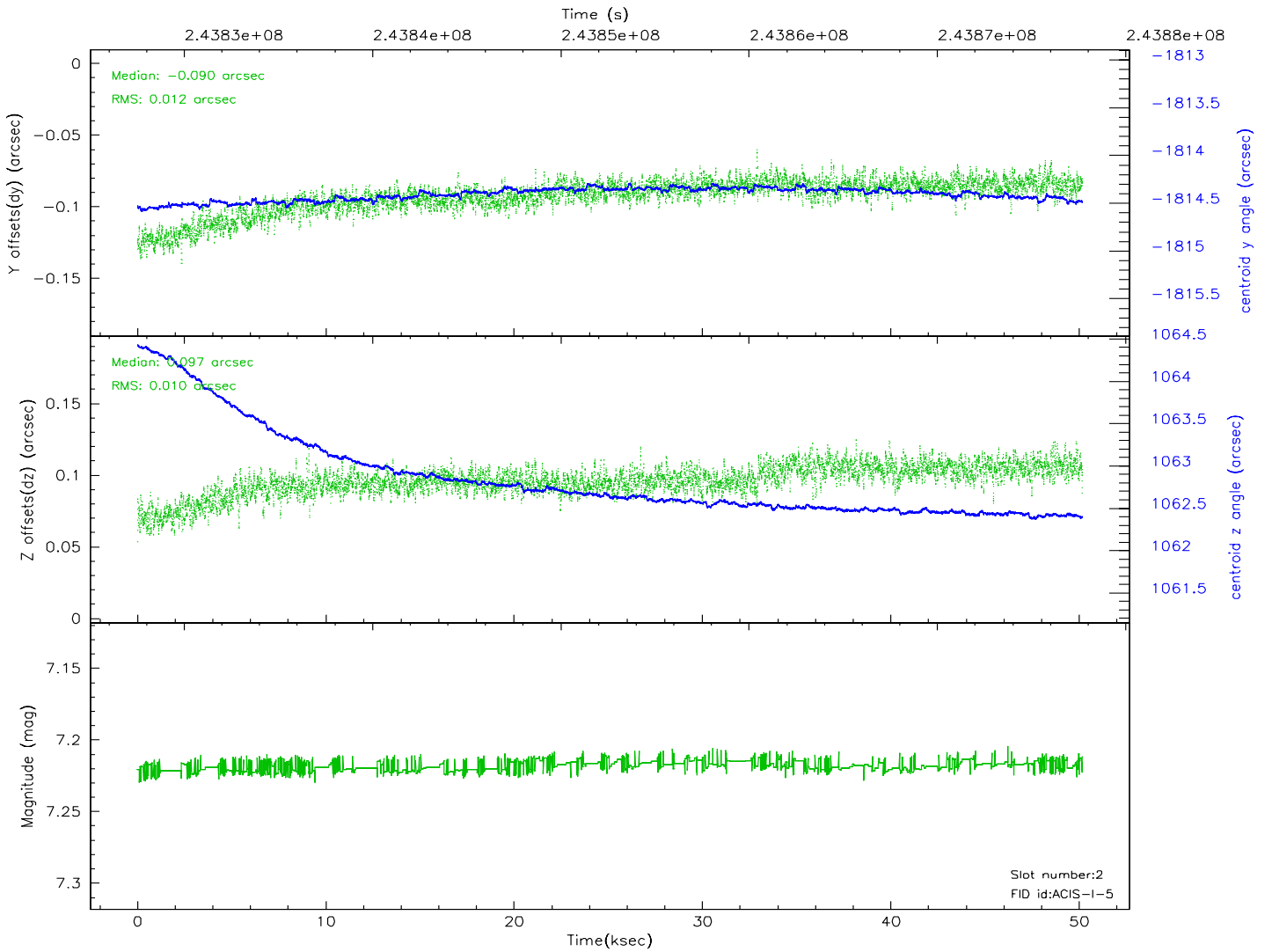
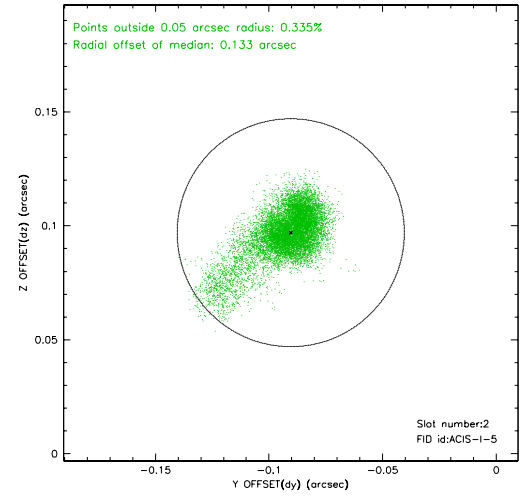
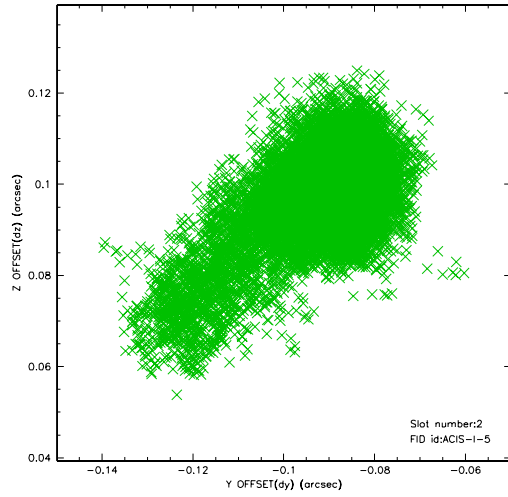
2.5.1 Slot 0



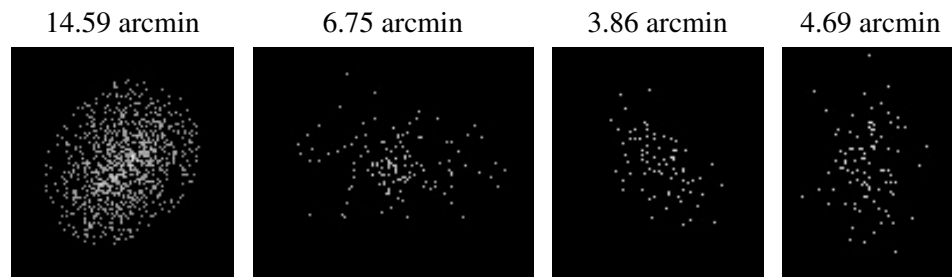
2.5.2 Slot 1



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	50.15477

A.2 Comments

Roll constraint met. 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.