

V&V Reference Report

L2 ASCDS Version : 8.1.2

Observation 239 - L2 Version 3

Chandra X-Ray Center

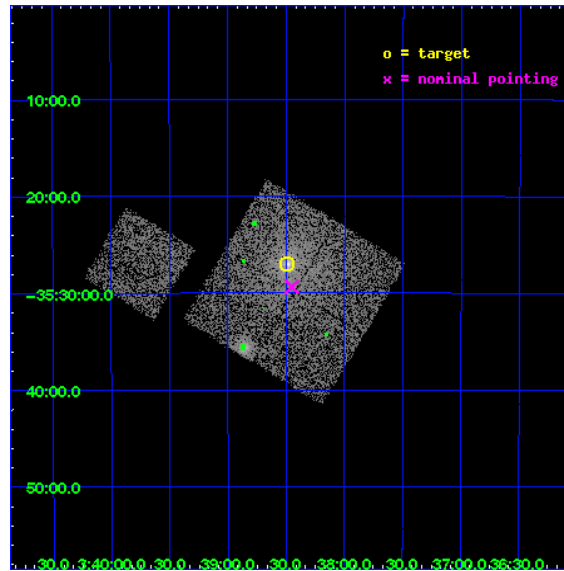
L2 Processing Date : Dec 4 2009

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1 Front

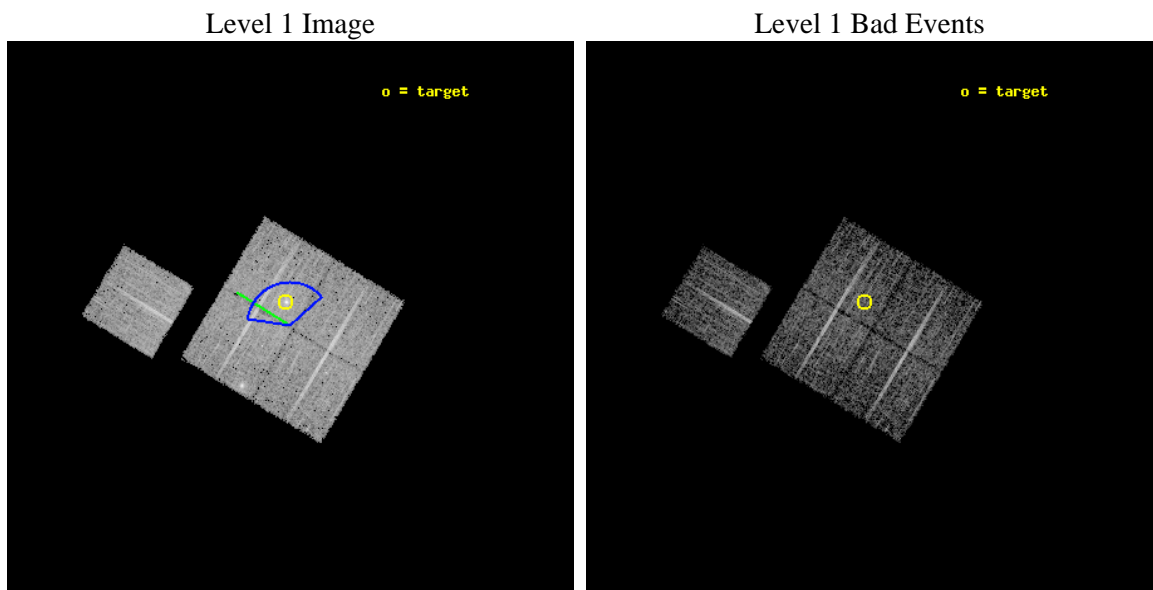
seq_num	600080	Sequence number
obs_id	239	Observation id
title	BRIGHT ELLIPTICAL GALAXIES AND HIGH REDSHIFT CLUSTERS	Proposal tit
observer	DR Richard Mushotzky	Principal investigator
object	NGC 1399	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	54.6225	Observer's specified target RA
dec_targ	-35.45011	Observer's specified target Dec
ra_nom	54.612765041869	Nominal RA
dec_nom	-35.489462686224	Nominal Dec
roll_nom	301.02438132819	Nominal Roll
revision	3	Processing version of data
ontime	3641.6000033915	Sum of GTIs [s]
livetime	3595.4878714403	Livetime [s]
ontime0	3641.6000033915	Sum of GTIs [s]
ontime1	3641.6000033915	Sum of GTIs [s]
ontime2	3641.6000033915	Sum of GTIs [s]
ontime3	3641.6000033915	Sum of GTIs [s]
ontime6	3641.6000033915	Sum of GTIs [s]
l2events	26124	Number of level 2 events



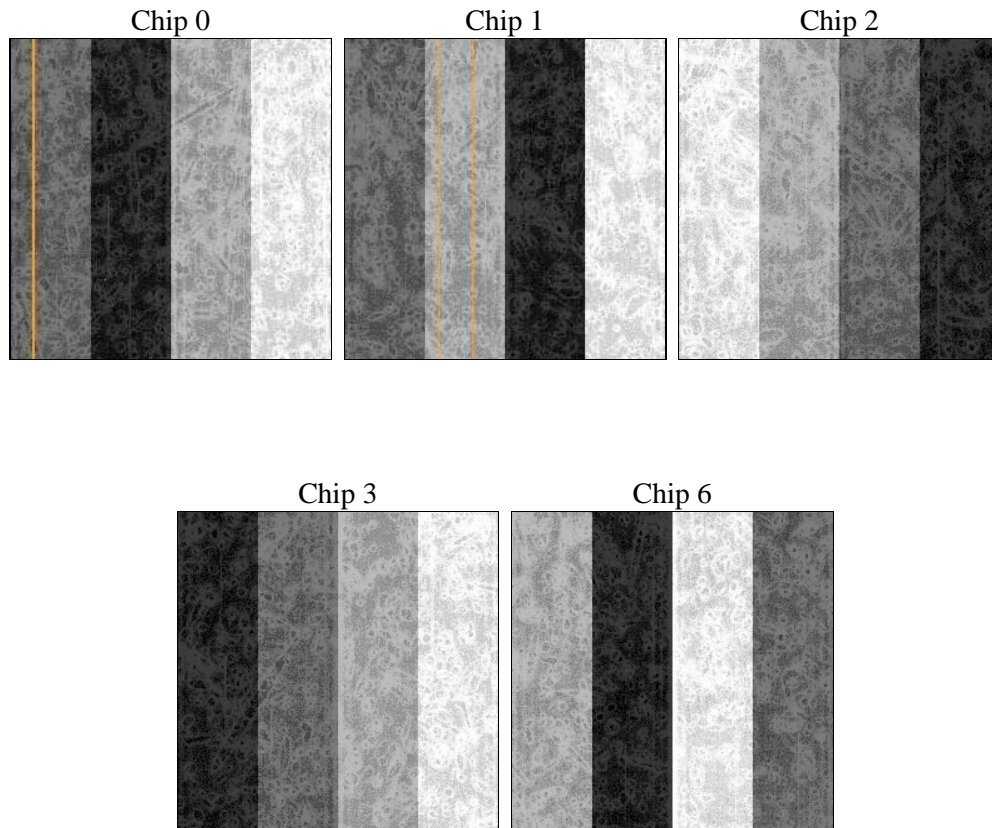
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	4462.807000	Scheduled observation exposure time
ascdsver	8.1.2	ASCDS version number	ontime	3641.6000033915	Sum of GTIs [s]
caldsver	4.1.4	 	ontime0	3641.6000033915	Sum of GTIs [s]
date	2009-12-05T02:12:44	Date and time of file creation	ontime1	3641.6000033915	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	3641.6000033915	Sum of GTIs [s]
			ontime3	3641.6000033915	Sum of GTIs [s]
			ontime6	3641.6000033915	Sum of GTIs [s]
			l1events	170148	Number of level 1 events

2.1.4 Events

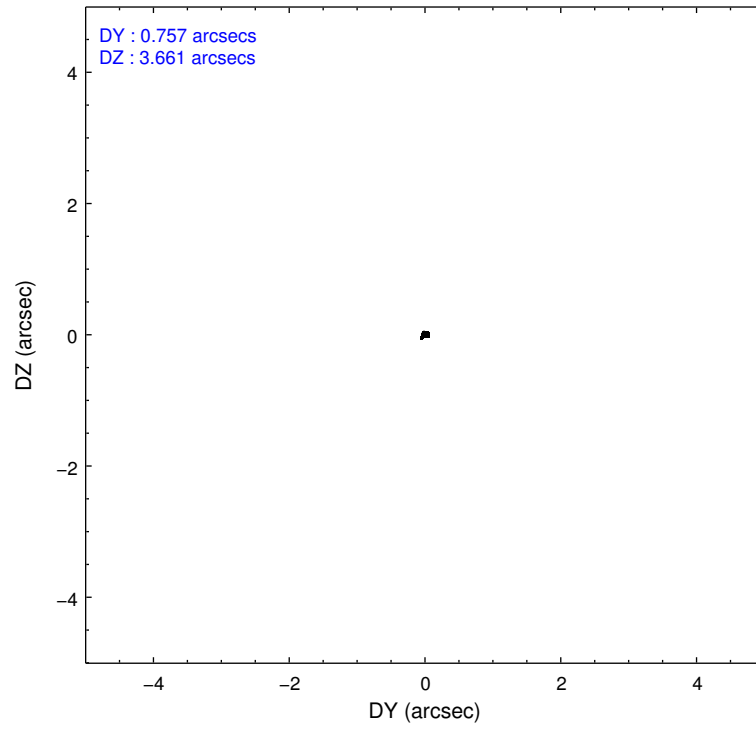
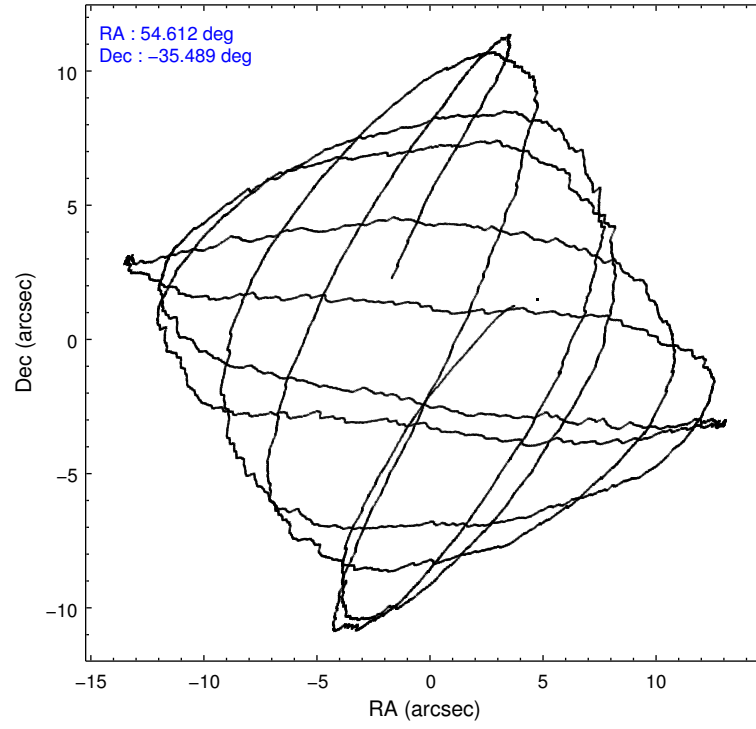
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	31313	31698	36462	37133	33542
rejected events	27046	26627	30324	28757	29610
rejected %	86%	84%	83%	77%	88%

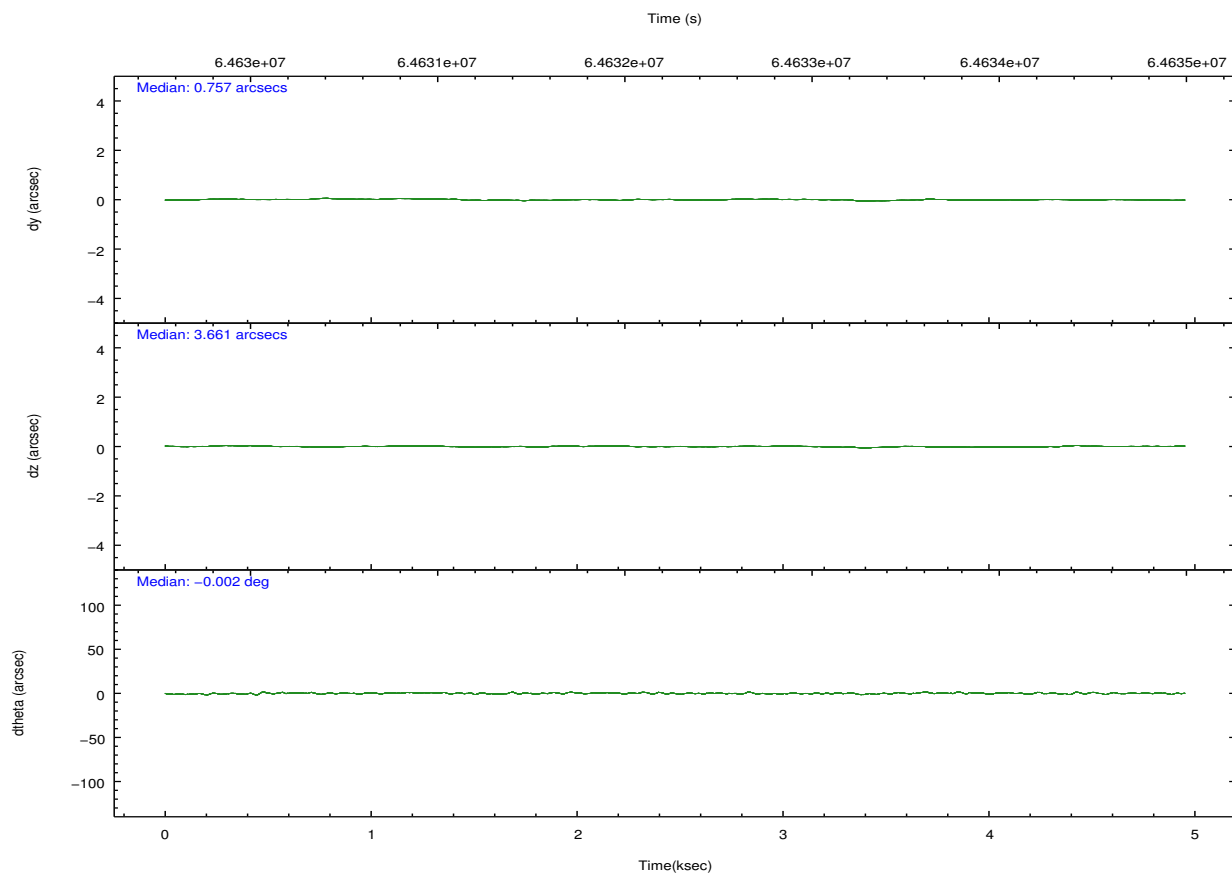
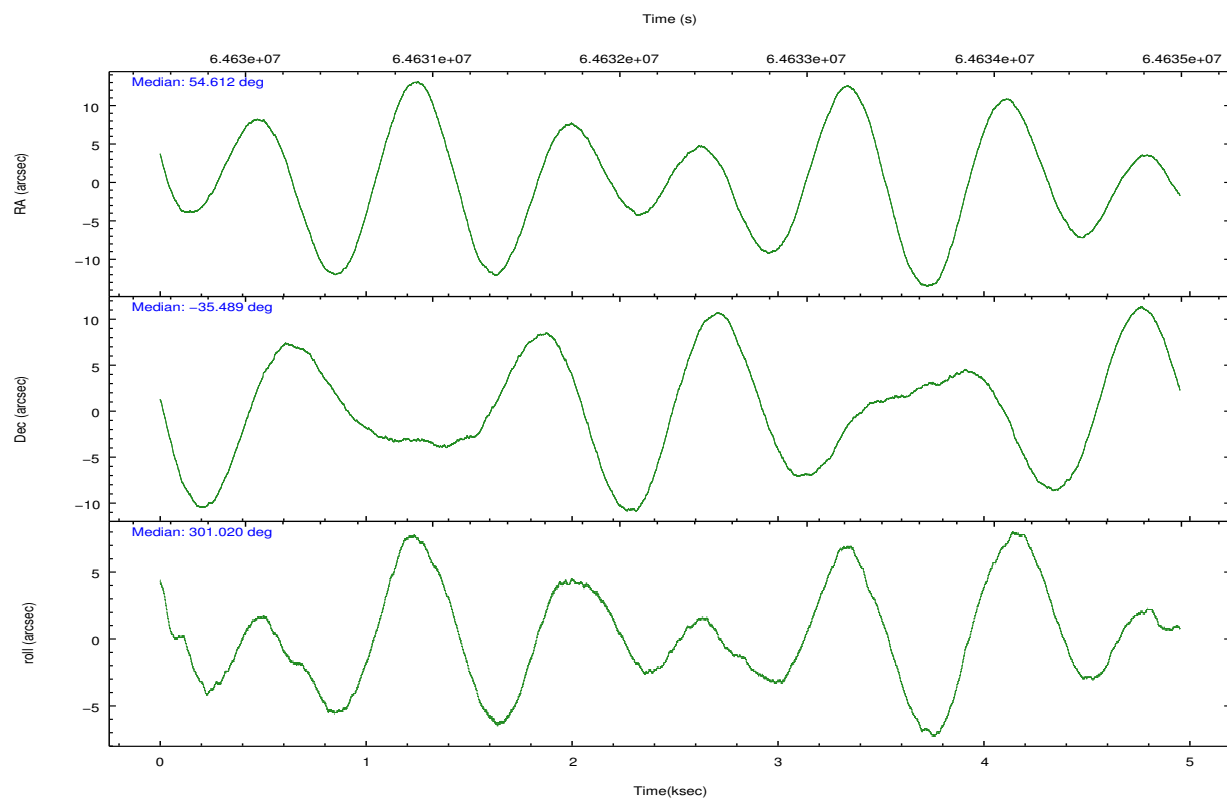
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	1595	2146	3165	4417	1225
	5%	6%	8%	11%	3%
grade 1 events	7	14	16	12	7
	0%	0%	0%	0%	0%
grade 2 events	1400	1537	1695	2584	1419
	4%	4%	4%	6%	4%
grade 3 events	261	320	262	280	191
	0%	1%	0%	0%	0%
grade 4 events	246	259	255	246	202
	0%	0%	0%	0%	0%
grade 5 events	615	678	554	590	672
	1%	2%	1%	1%	2%
grade 6 events	768	814	767	858	898
	2%	2%	2%	2%	2%
grade 7 events	26421	25930	29748	28146	28928
	84%	81%	81%	75%	86%

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	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
Pointing RA	54.583180	54.61276504186868	Subarray requested	NONE	NONE
Pointing Dec	-35.475802	-35.48946268622401	Alternating exposures requested	N	N
Pointing Roll	300.798523	301.0243813281929	Primary exposure time	0.000000	3.2
Roll angle	343.000000	343.000000			
Roll tolerance	65.000000	65.000000			
Roll constraint allows 180D rotation	N	N			
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	64630281.184000	64629615.12943			
Observation start date	2000-01-19T00:50:17	2000-01-19T00:40:15			
Observation end time	64634744.184000	64635533.992145			
Observation end date	2000-01-19T02:04:40	2000-01-19T02:18:53			
Read mode	TIMED	TIMED			

2.3 Aspect



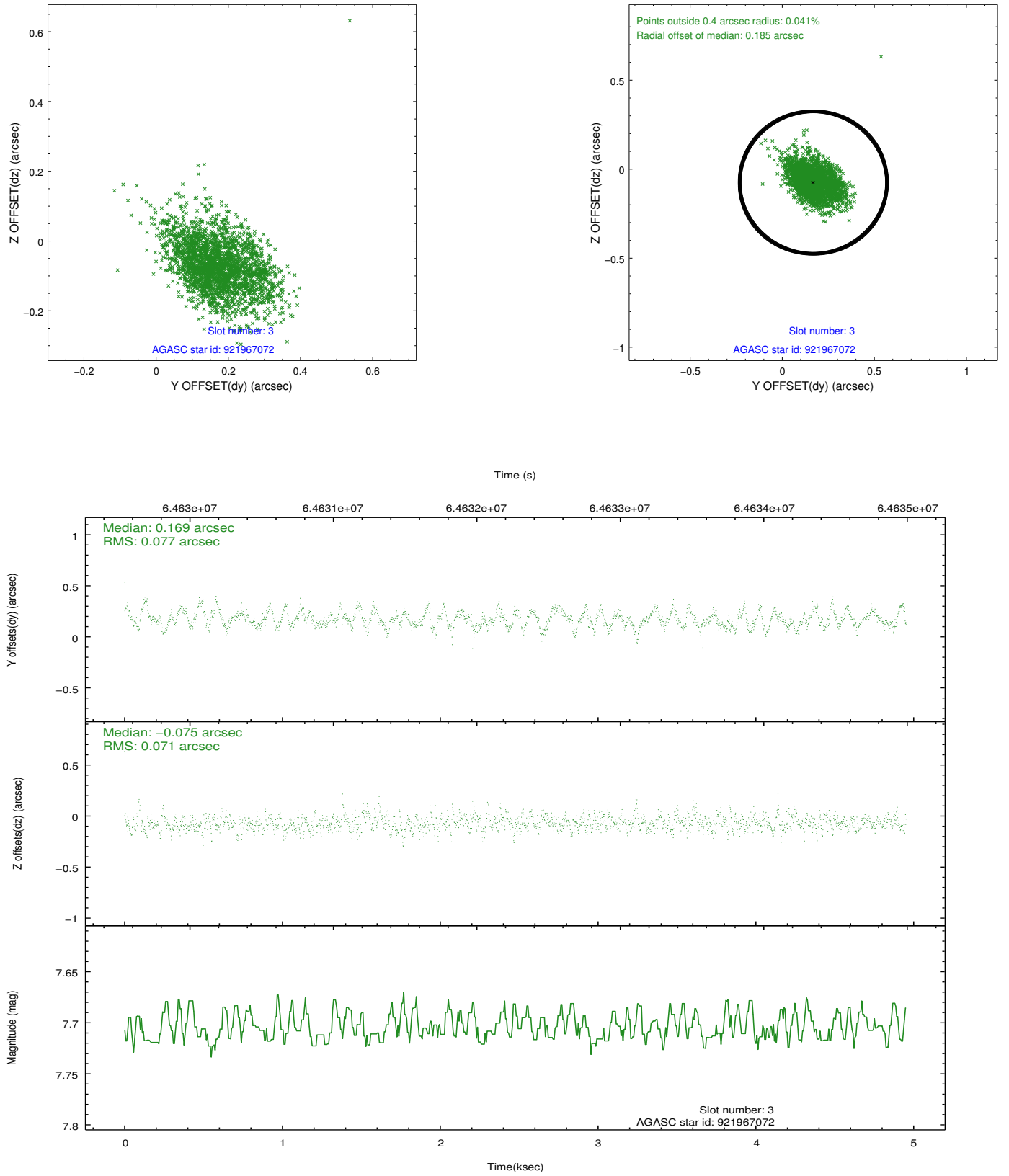


Slot Statistics

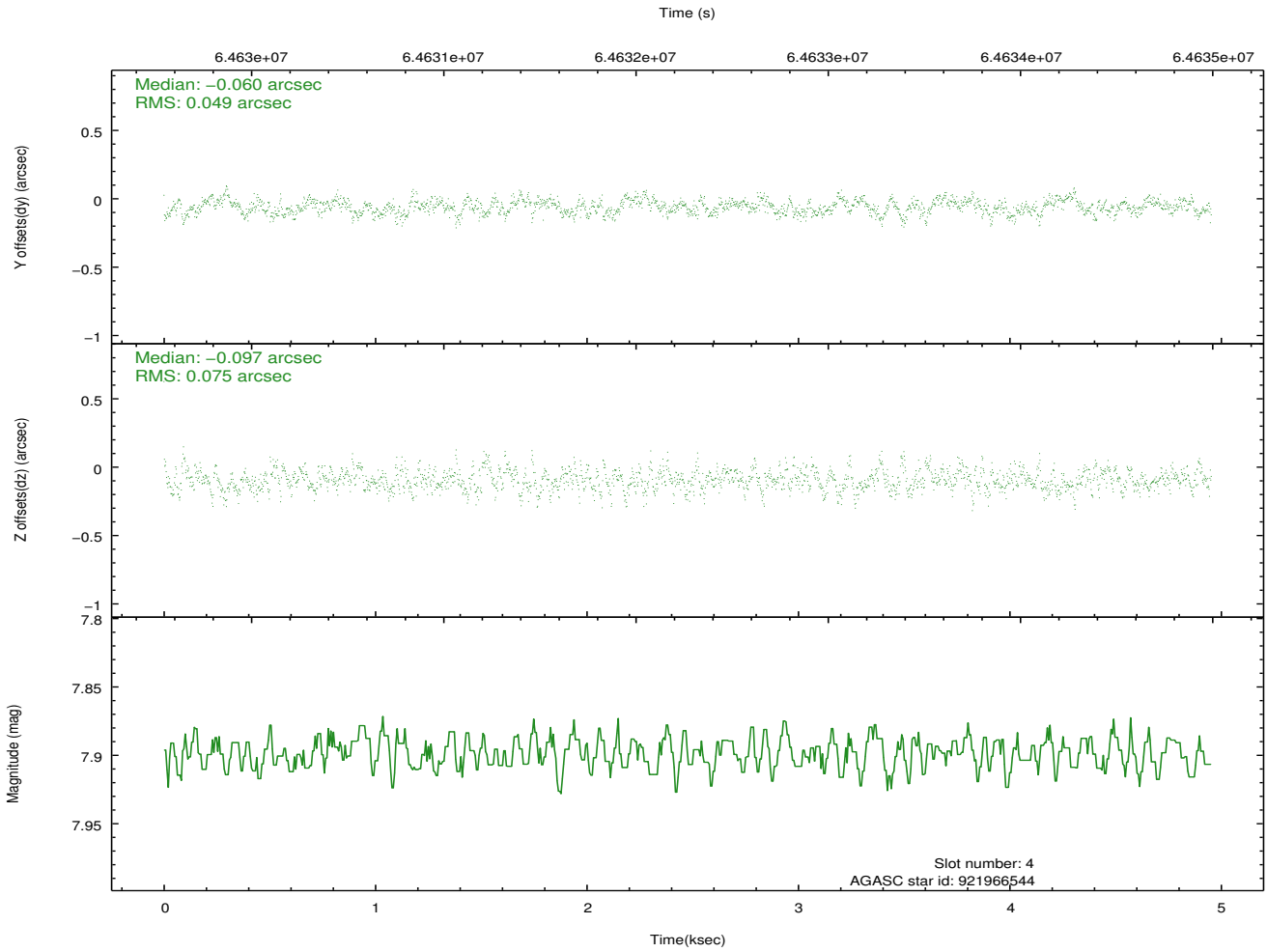
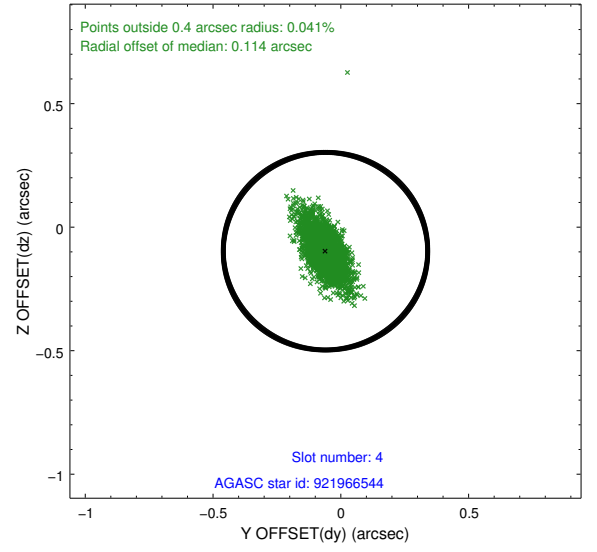
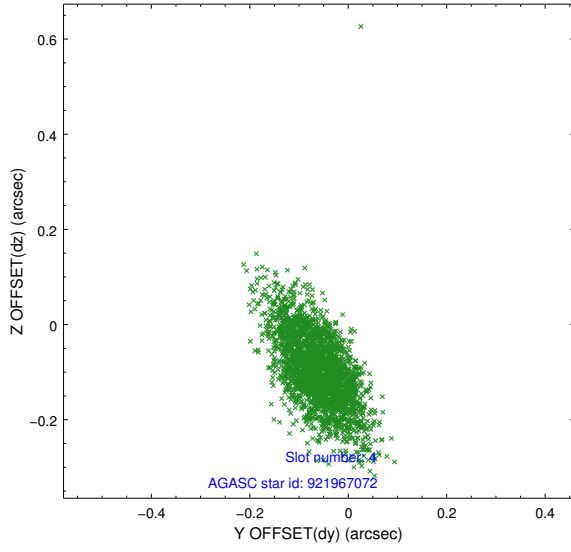
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-3	7.44	1208	0.017	0.155	0.008	0.014	0.000000	0.000000	56.54	-960.04
1	FID	ACIS-I-4	7.20	1207	-0.027	-0.065	0.007	0.012	0.000000	0.000000	2159.07	1072.07
2	FID	ACIS-I-5	7.23	1208	-0.088	-0.020	0.008	0.013	0.000000	0.000000	-1807.40	1071.46
3	GUIDE	921967072	7.70	2416	0.169	-0.075	0.109	0.184	54.269247	-36.292226	2060.51	-2287.34
4	GUIDE	921966544	7.90	2417	-0.060	-0.097	0.089	0.166	54.743508	-35.636012	737.35	107.22
5	GUIDE	921575736	8.53	2416	-0.163	0.126	0.088	0.158	54.586331	-34.827401	-1999.61	1204.03
6	GUIDE	921966568	10.58	2413	0.144	-0.031	0.155	0.255	54.921550	-35.796039	1497.56	258.90
7	GUIDE	921575168	9.72	2401	-0.093	0.067	0.120	0.198	54.522532	-34.975681	-1636.98	769.06

2.4 Star Slots

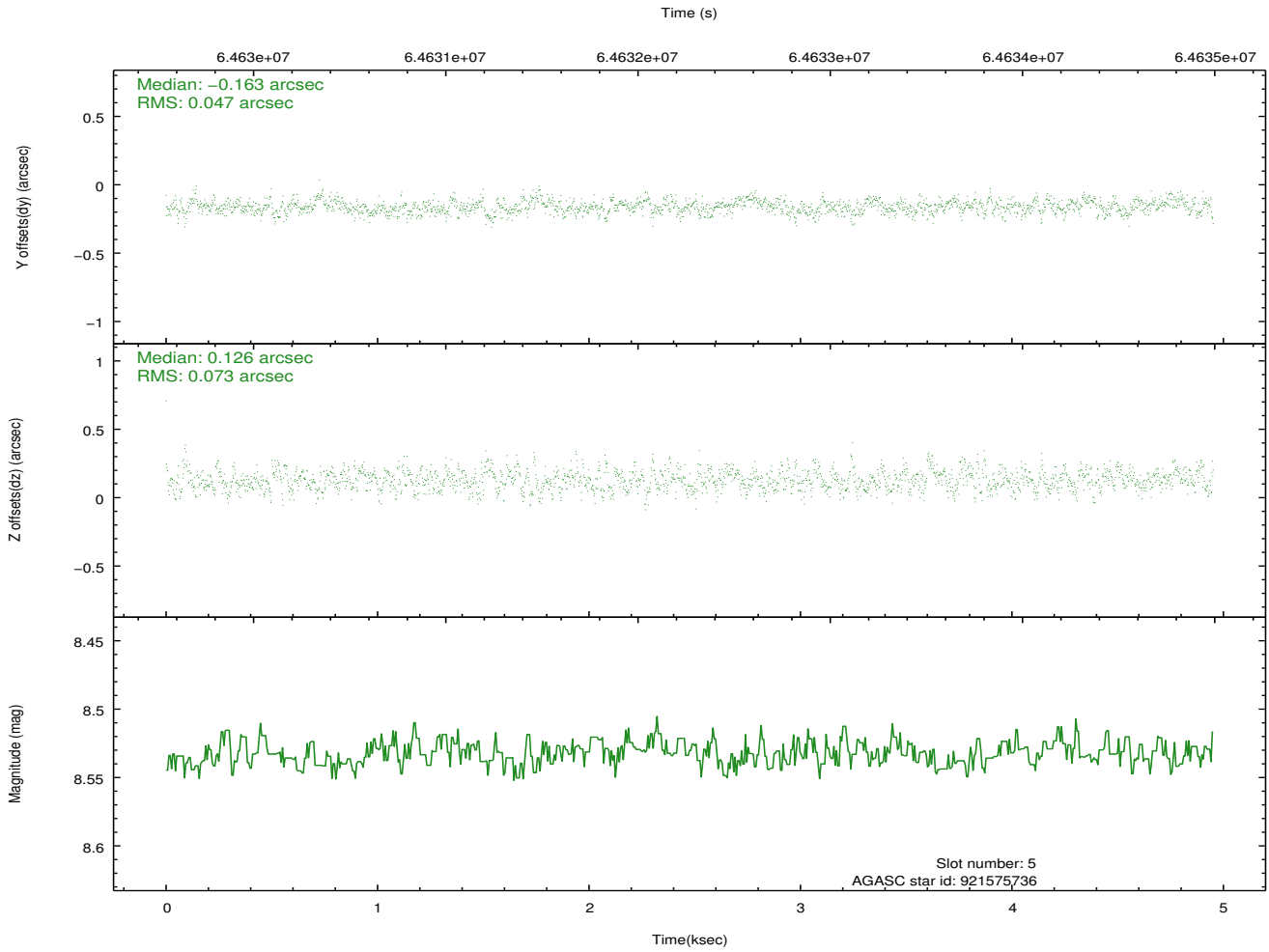
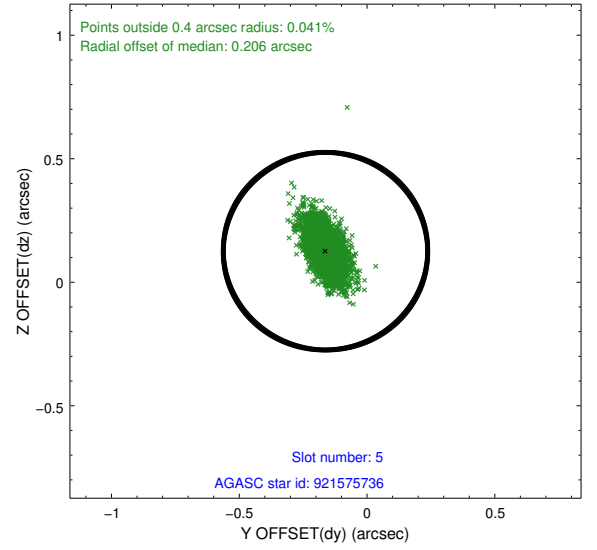
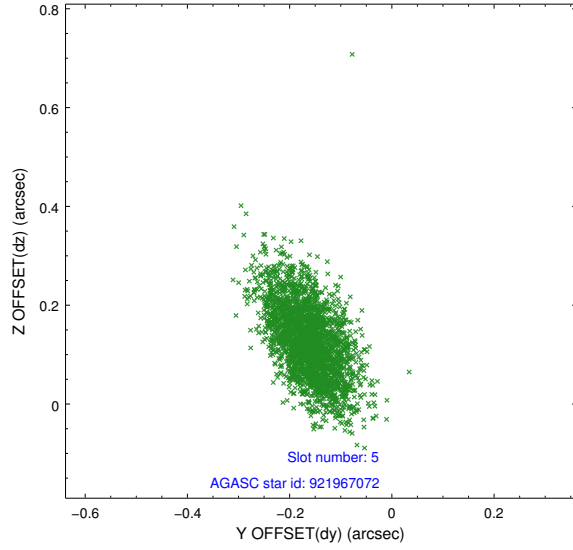
2.4.1 Slot 3



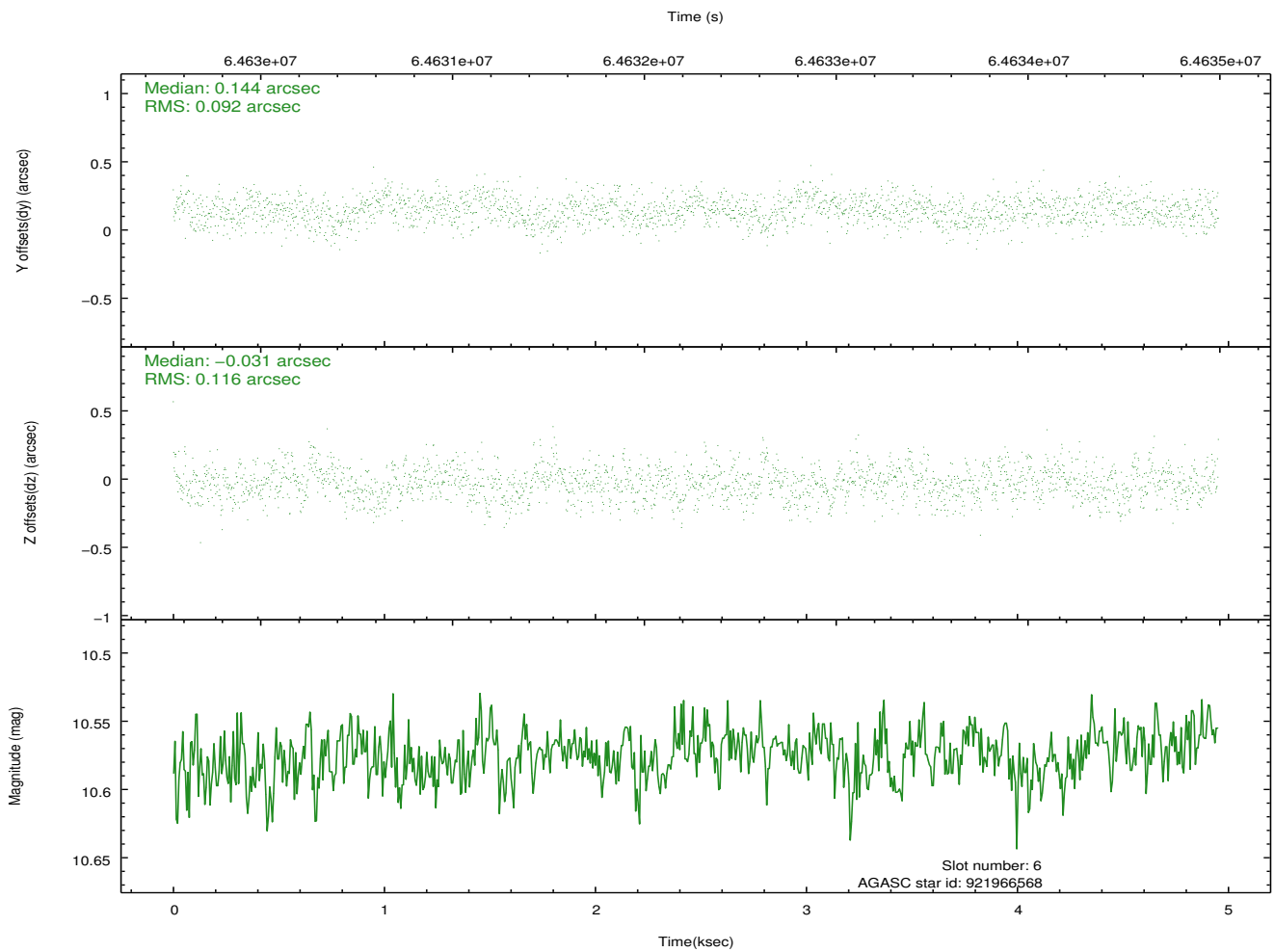
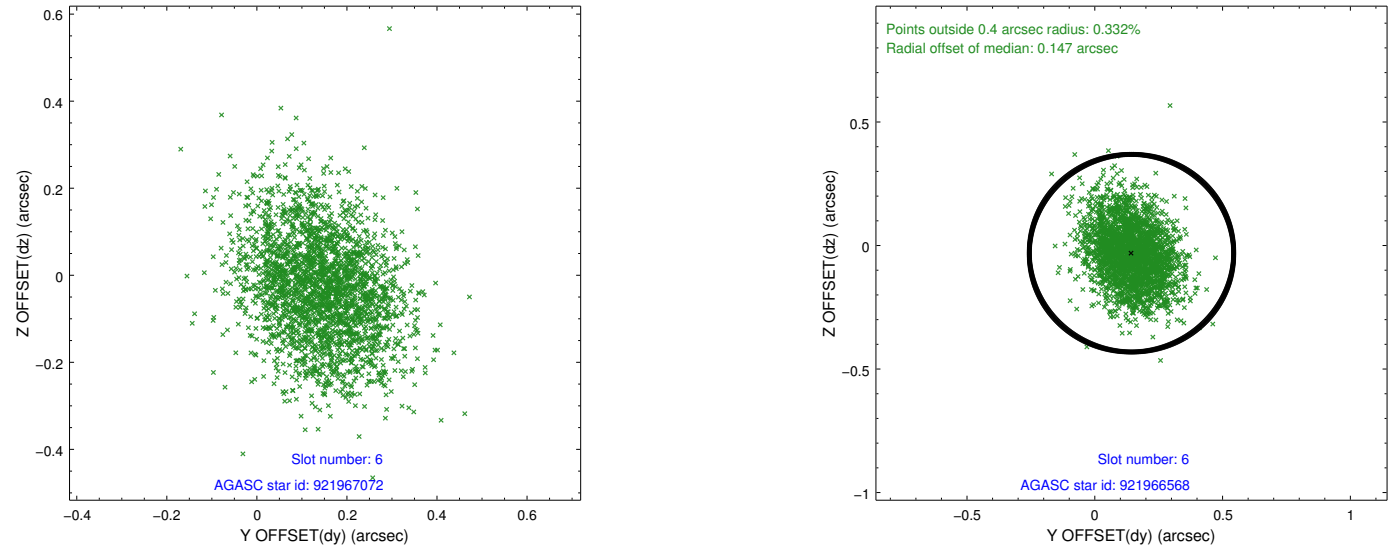
2.4.2 Slot 4



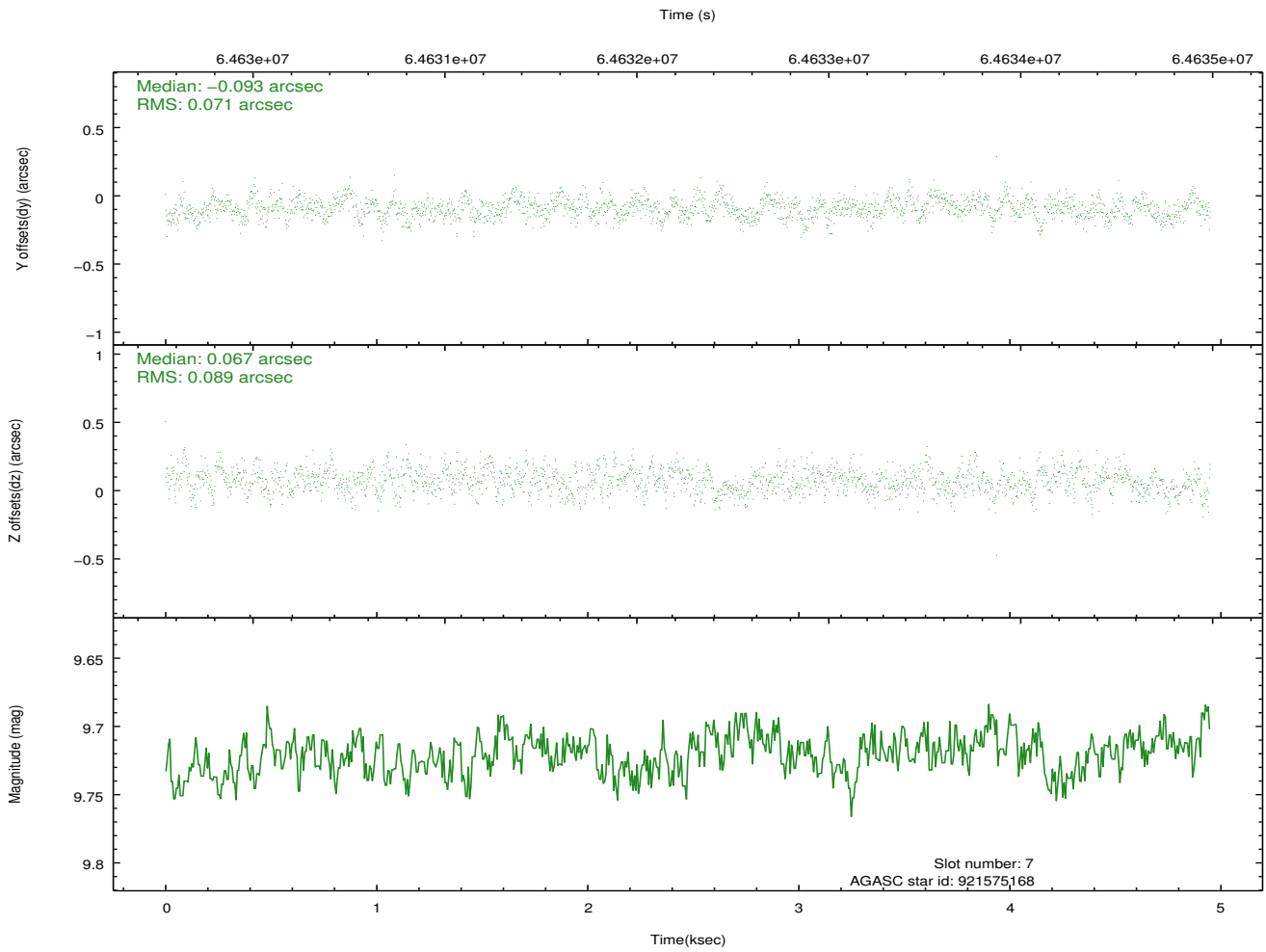
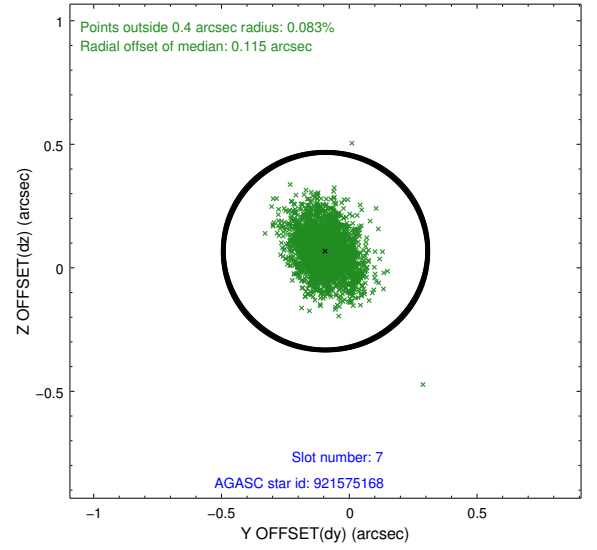
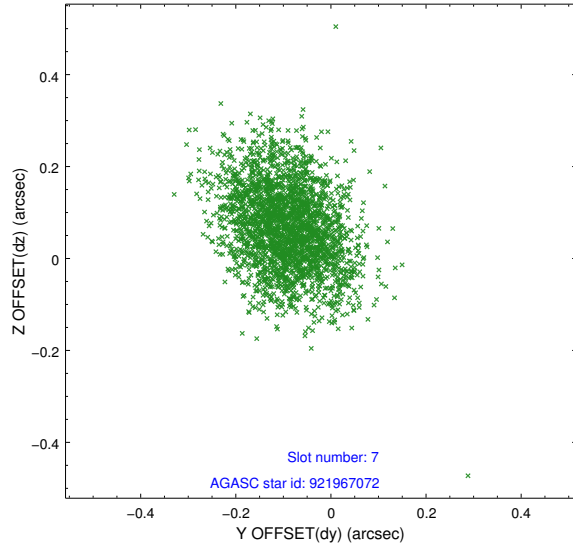
2.4.3 Slot 5



2.4.4 Slot 6

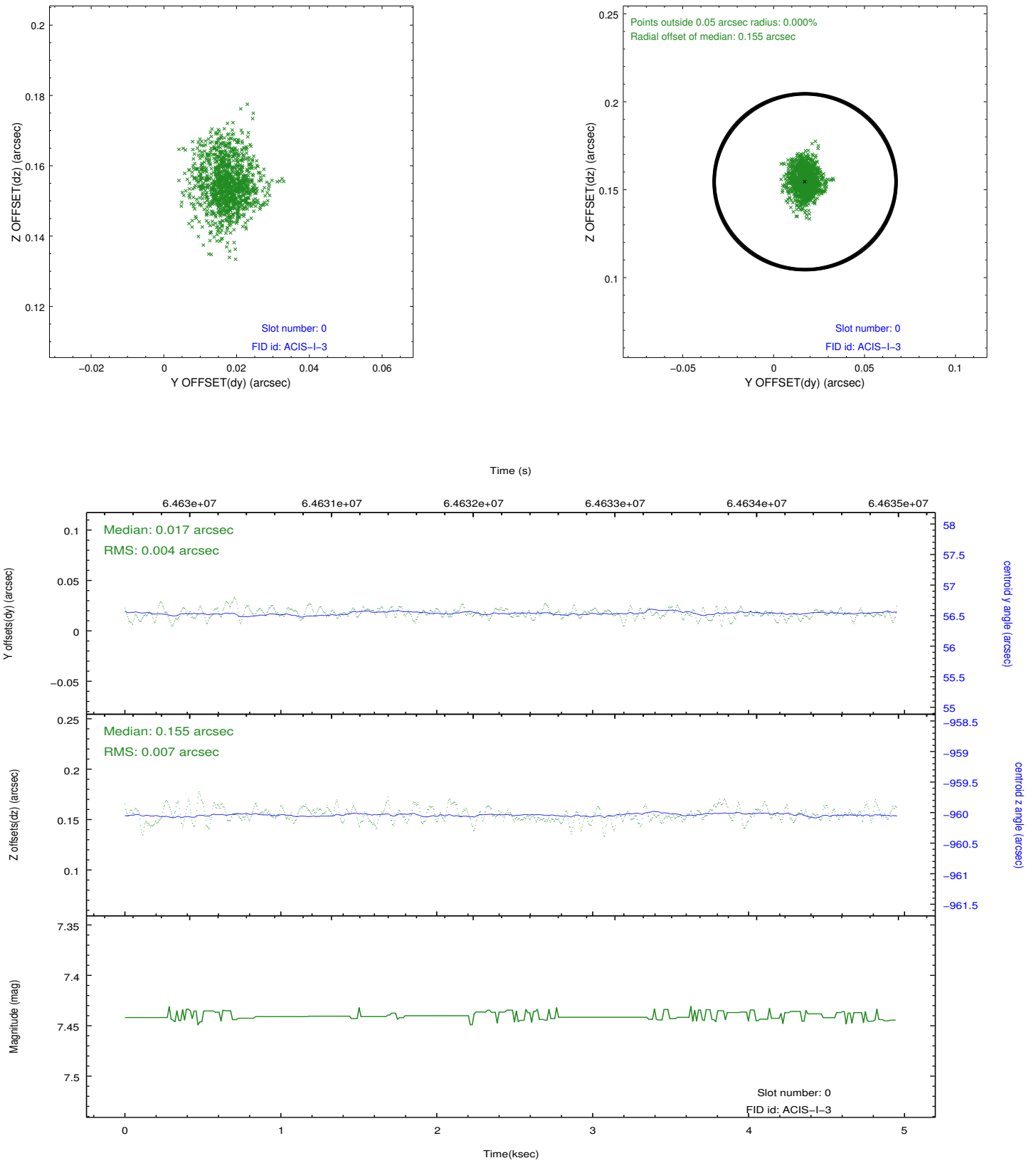


2.4.5 Slot 7

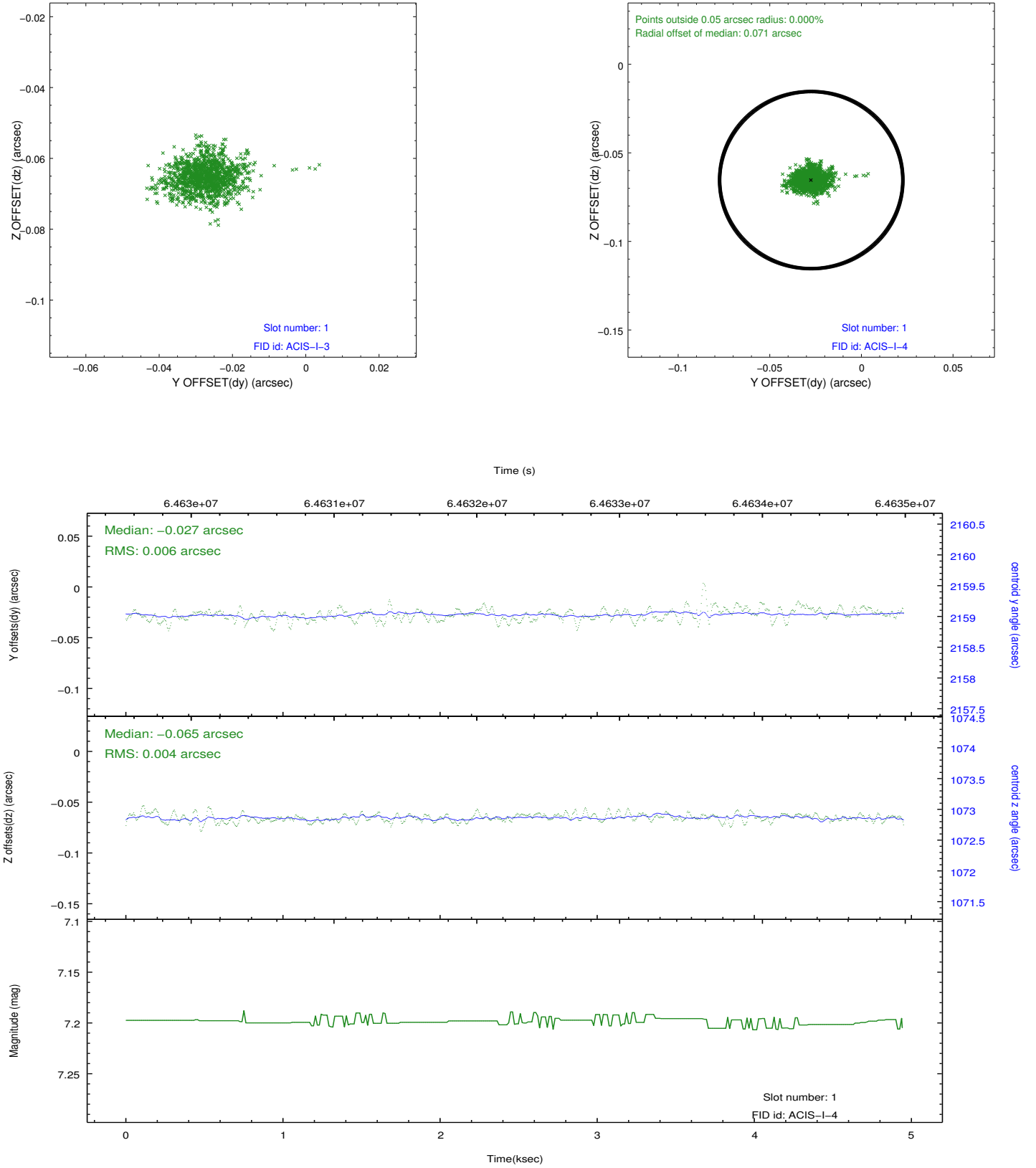


2.5 FID Slots

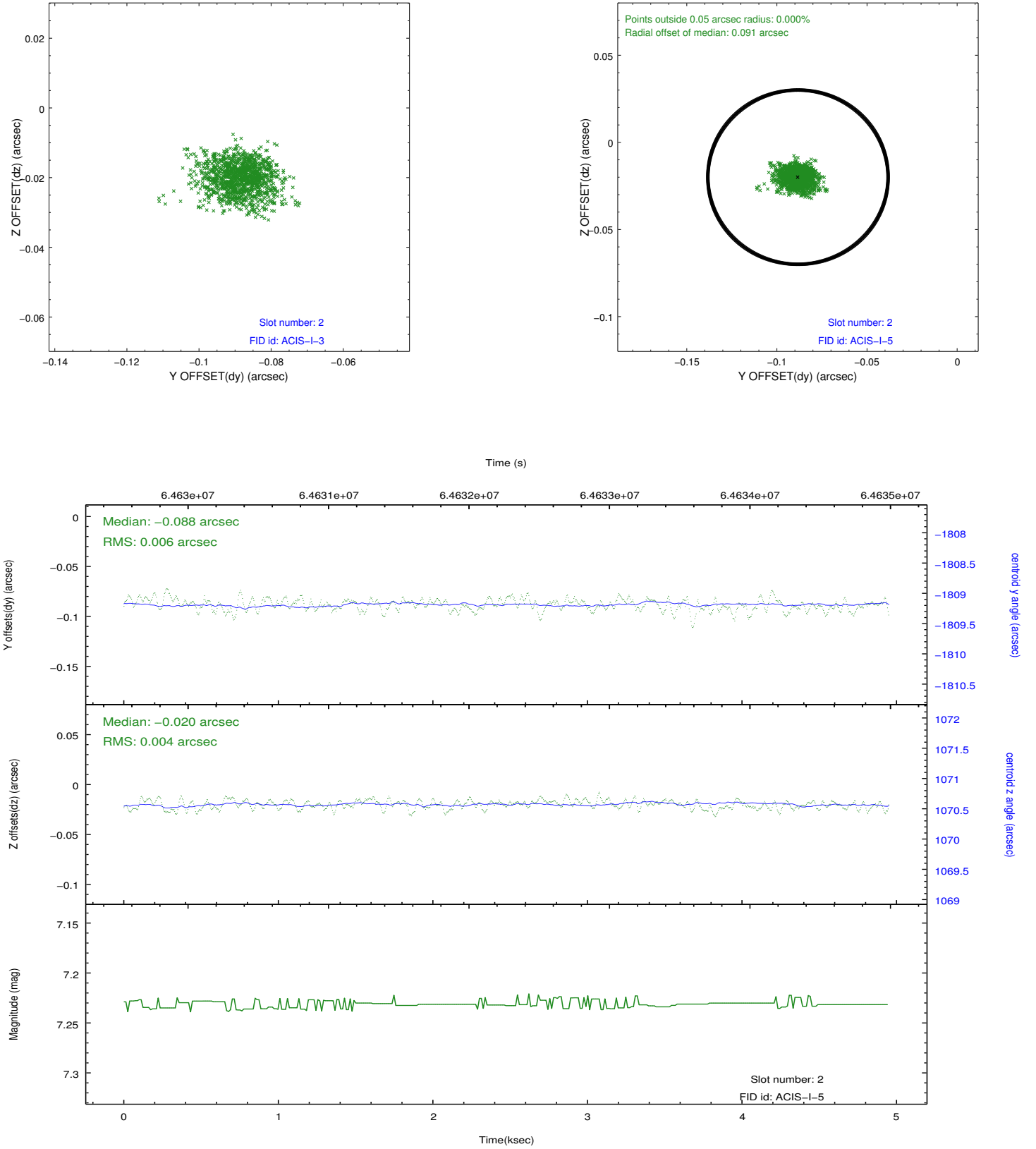
2.5.1 Slot 0



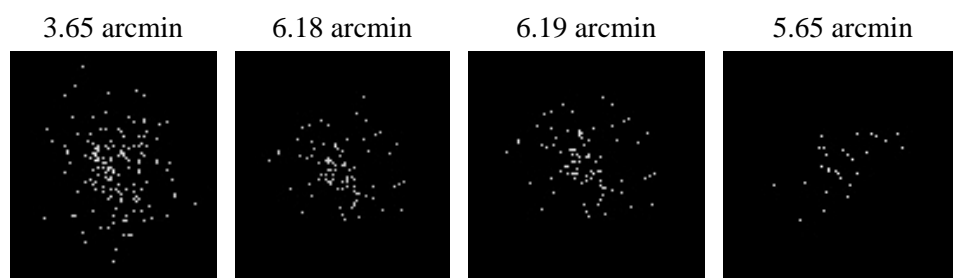
2.5.2 Slot 1



2.5.3 Slot 2



3 Point Sources



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2009.12.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.644

A.2 Comments

Focal plane temperature is warmer than -118.7 C degrees during the entire observation. This temperature is the upper limit of the verified ACIS calibration for the front-illuminated chips. The focal plane temperature is also warmer than -116.7 degrees C for the entire observation. This temperature is the upper limit of the verified ACIS calibration for the back-illuminated chips. The ACIS spectral response calibration is less accurate at these warmer temperatures than it is at -119.7 C. Users whose science objectives depend on the most accurate spectral response (ie: fitting line-rich spectra) may notice an effect. Users whose science objectives do not depend on the most accurate spectral response should not notice an effect.

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Roll preference met.