

V&V Reference Report

L2 ASCDS Version : 8.1.1

Observation 783 - L2 Version 4
Chandra X-Ray Center

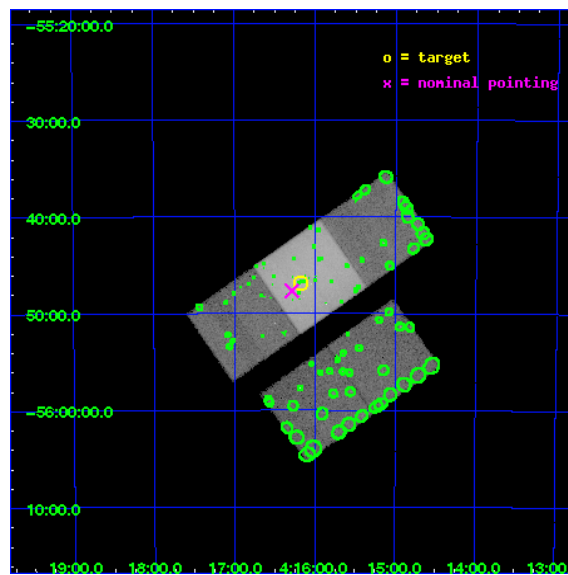
L2 Processing Date : Nov 29 2009

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1 Front

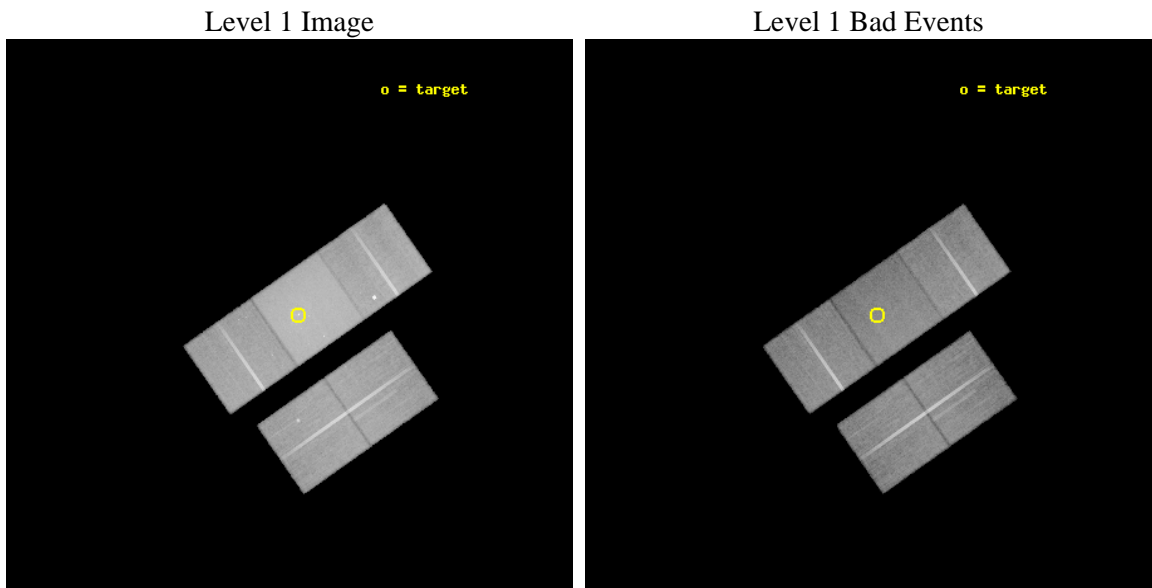
seq_num	600086	Sequence number
obs_id	783	Observation id
title	RESOLVING THE MYSTERY OF X-RAY FAINT ELLIPTICAL GALAXIES	Proposal
observer	Dr. Craig Sarazin	Principal investigator
object	NGC 1553	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	64.042917	Observer's specified target RA
dec_targ	-55.780833	Observer's specified target Dec
ra_nom	64.071751469504	Nominal RA
dec_nom	-55.79455470327	Nominal Dec
roll_nom	324.98643372768	Nominal Roll
revision	4	Processing version of data
ontime	34163.200031817	Sum of GTIs [s]
livetime	33730.605022405	Livetime [s]
ontime2	34146.995250724	Sum of GTIs [s]
ontime3	34153.477131248	Sum of GTIs [s]
ontime6	34163.200031817	Sum of GTIs [s]
ontime7	34163.200031817	Sum of GTIs [s]
ontime8	34156.718111388	Sum of GTIs [s]
l2events	426778	Number of level 2 events



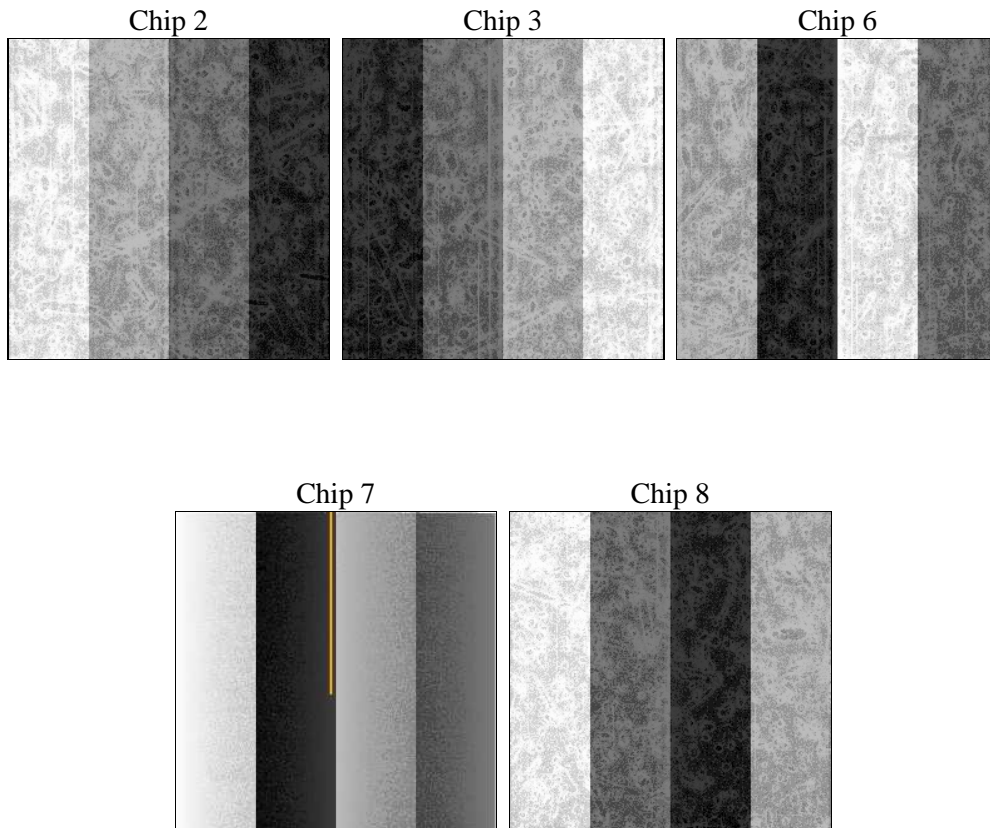
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	35000.000000	Scheduled observation exposure time
ascdsver	8.1.1	ASCDS version number	ontime	34163.200031817	Sum of GTIs [s]
caldbver	4.1.4	 	ontime2	34146.995250724	Sum of GTIs [s]
date	2009-11-29T23:15:42	Date and time of file creation	ontime3	34153.477131248	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	34163.200031817	Sum of GTIs [s]
			ontime7	34163.200031817	Sum of GTIs [s]
			ontime8	34156.718111388	Sum of GTIs [s]
			l1events	1748697	Number of level 1 events

2.1.4 Events

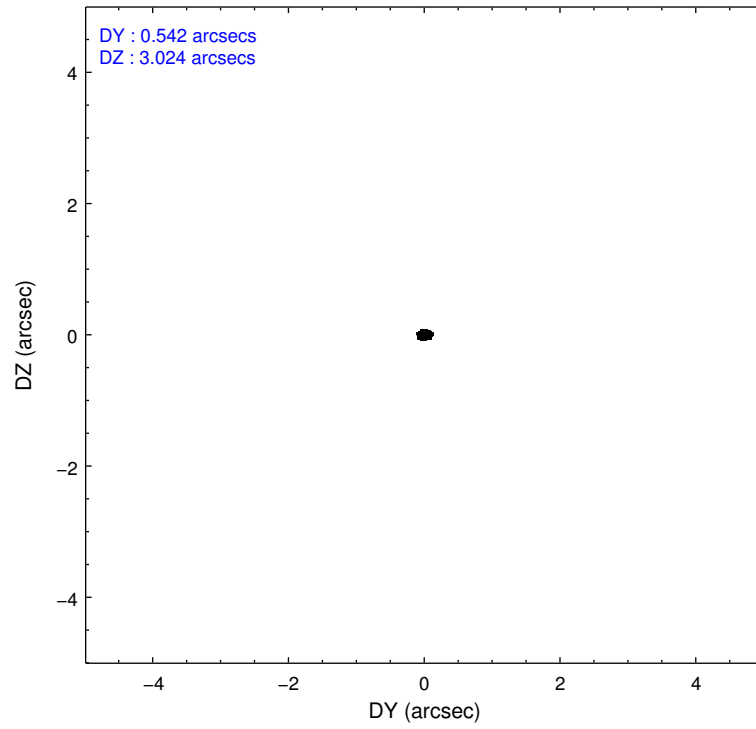
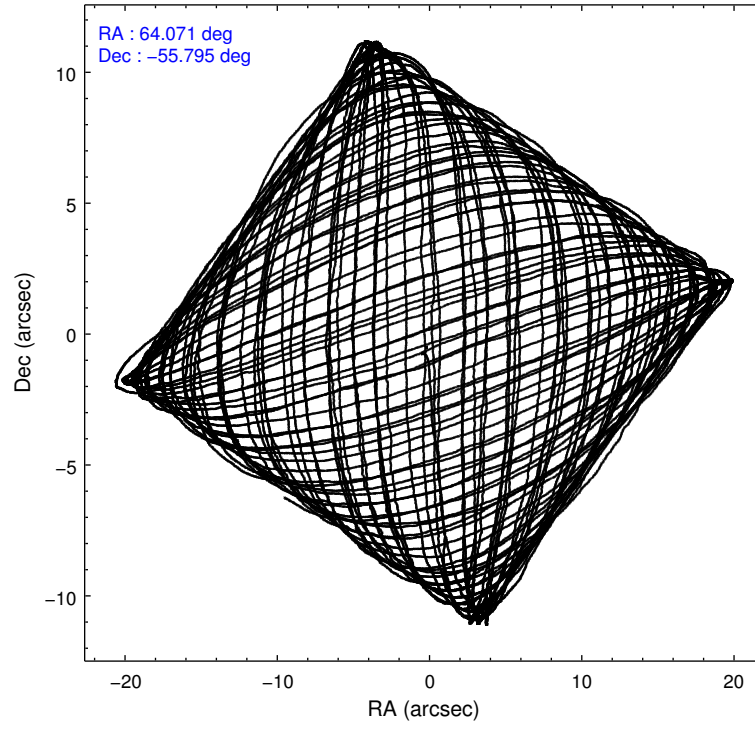
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	299404	289111	302533	504055	353594
rejected events	266849	257360	262058	211224	277747
rejected %	89%	89%	86%	41%	78%

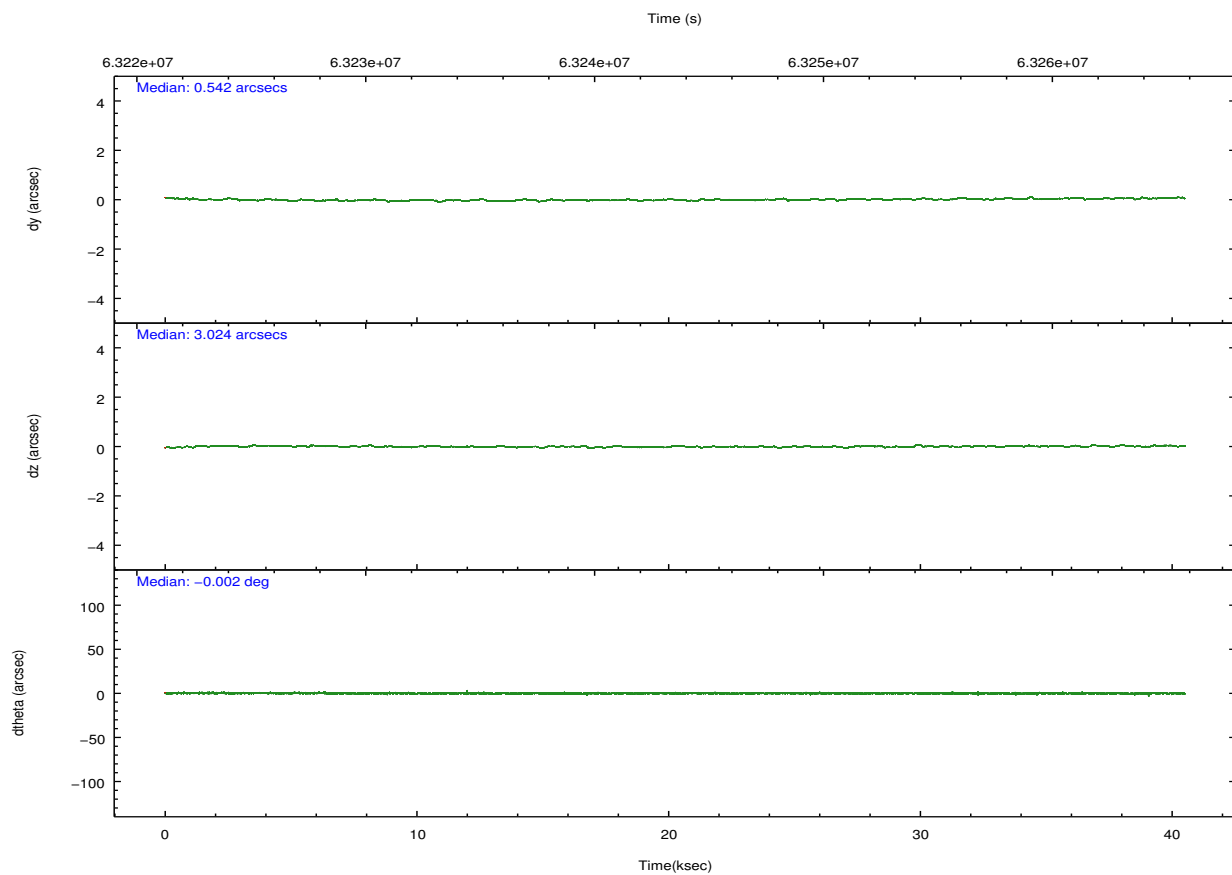
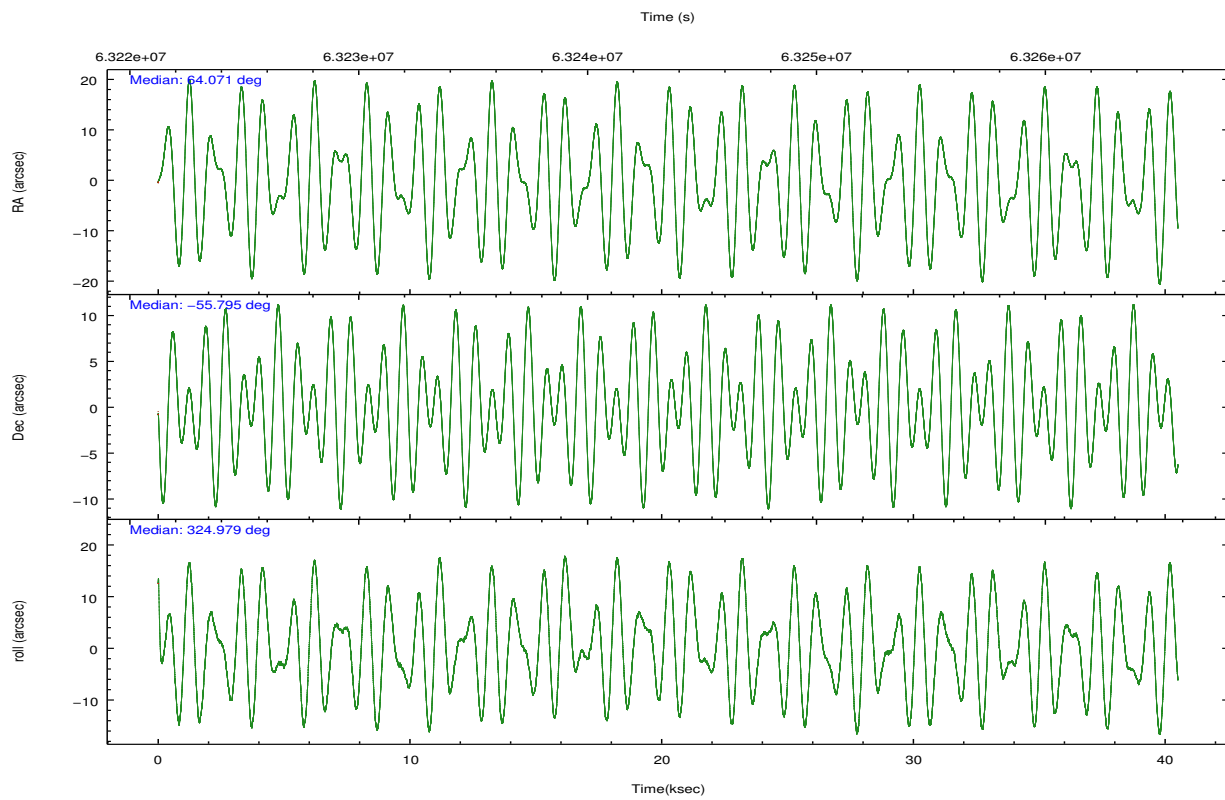
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	9013	7494	10444	30144	20863
	3%	2%	3%	5%	5%
grade 1 events	61	59	58	183	103
	0%	0%	0%	0%	0%
grade 2 events	13680	13916	18342	58077	29229
	4%	4%	6%	11%	8%
grade 3 events	1727	1772	1801	18873	4782
	0%	0%	0%	3%	1%
grade 4 events	1704	1650	1822	17859	4463
	0%	0%	0%	3%	1%
grade 5 events	4940	5410	6169	20032	8149
	1%	1%	2%	3%	2%
grade 6 events	6438	6924	8069	167894	16536
	2%	2%	2%	33%	4%
grade 7 events	261841	251886	255828	190993	269469
	87%	87%	84%	37%	76%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-23678	ACIS-23678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
Pointing RA	64.022980	64.07175146950443	Subarray requested	NONE	NONE
Pointing Dec	-55.792085	-55.79455470326999	Alternating exposures requested	N	N
Pointing Roll	324.789468	324.986433727677	Primary exposure time	0.000000	3.2
SIM focus pos (mm)	-0.684267	-0.6828225247311905			
SIM defocus (mm)	0	0.001444936568705701			
SIM translation stage pos (mm)	-190.132523	-190.145094680475			
SIM translation stage offset (mm)	0	0.01257209746719923			
Observation start time	63223744.184000	63222672.915848			
Observation start date	2000-01-02T18:08:00	2000-01-02T17:51:12			
Observation end time	63258744.184000	63264528.792366			
Observation end date	2000-01-03T03:51:20	2000-01-03T05:28:48			
Read mode	TIMED	TIMED			

2.3 Aspect



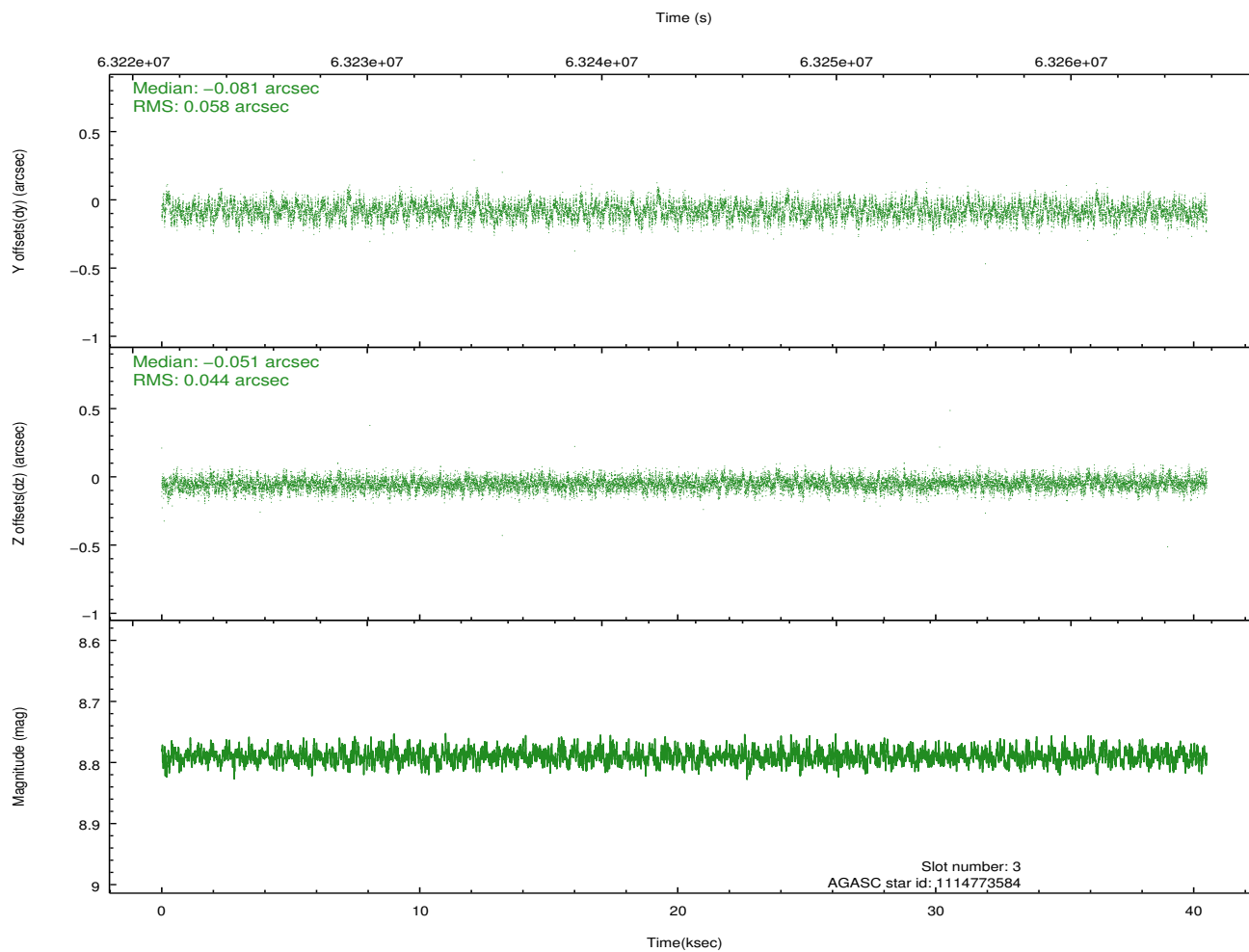
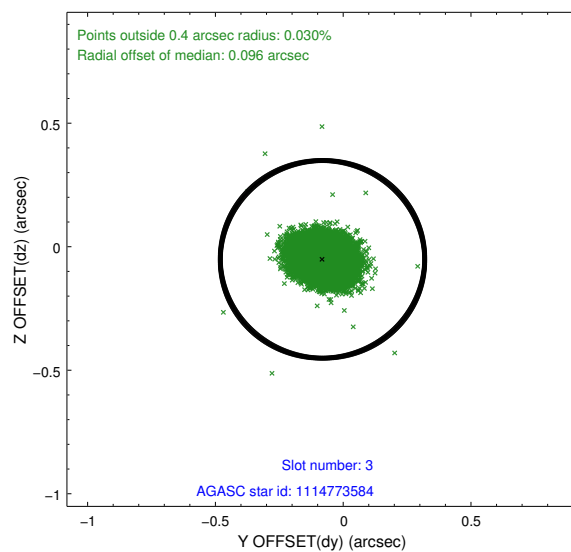
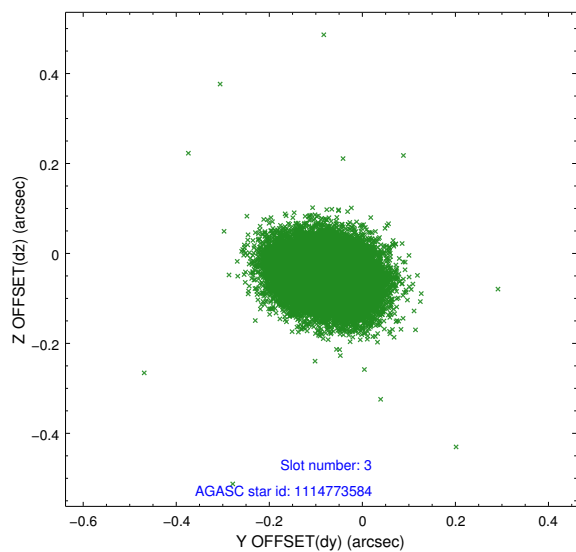


Slot Statistics

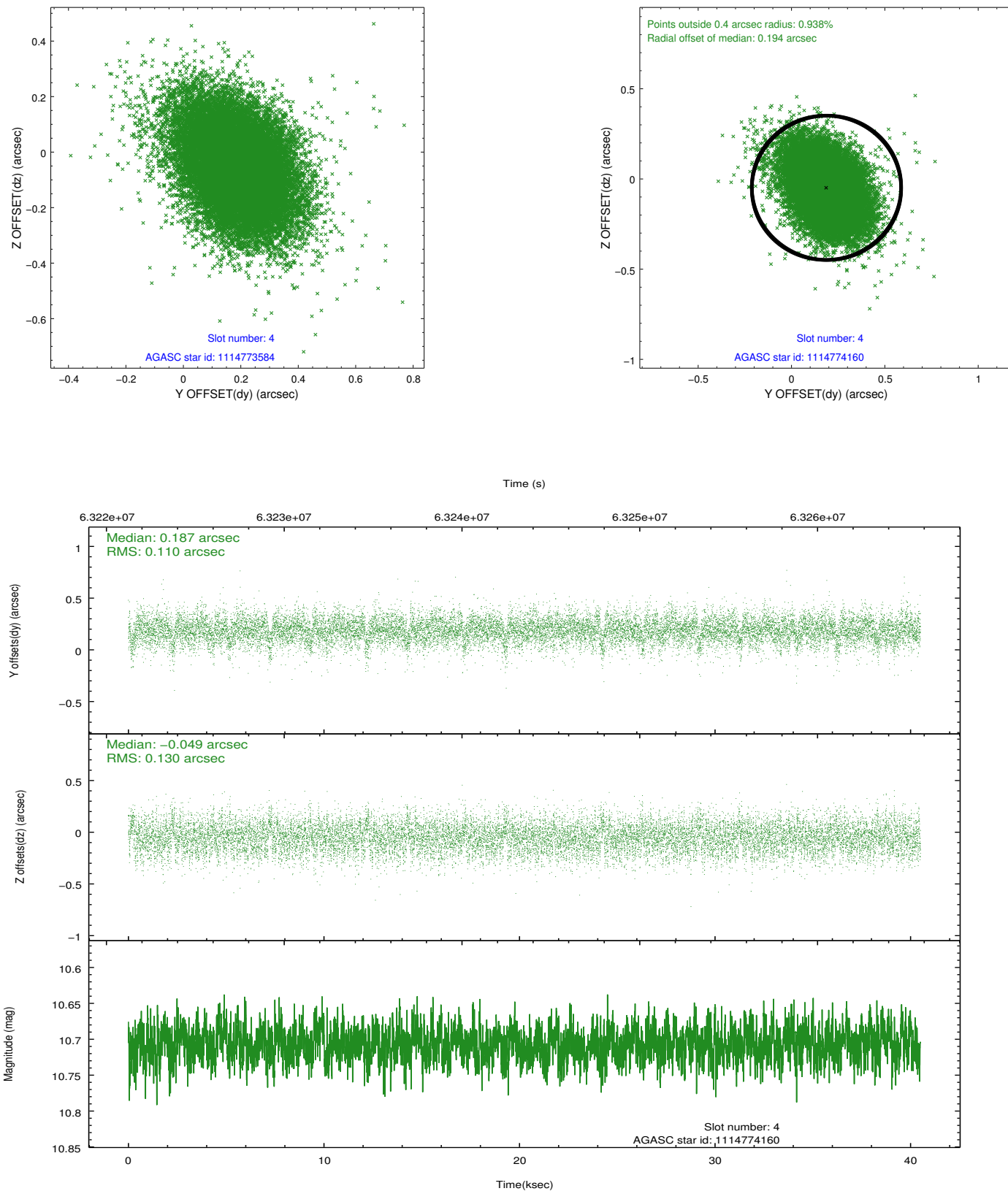
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.12	19762	-0.028	-0.031	0.006	0.010	0.000000	0.000000	-753.20	-1723.98
1	FID	ACIS-S-4	7.22	19762	0.021	0.000	0.006	0.010	0.000000	0.000000	2160.21	184.51
2	FID	ACIS-S-6	7.36	19762	-0.021	0.038	0.007	0.011	0.000000	0.000000	408.77	821.92
3	GUIDE	1114773584	8.79	19758	-0.081	-0.051	0.077	0.123	63.922281	-56.522594	1353.46	-2263.31
4	GUIDE	1114774160	10.71	19731	0.187	-0.049	0.176	0.299	64.435736	-56.505459	2152.85	-1626.72
5	GUIDE	1114781480	10.33	19732	-0.032	0.193	0.145	0.228	63.991337	-55.124059	-1439.83	1927.99
6	GUIDE	1114779416	9.59	19741	-0.085	-0.037	0.099	0.157	64.495527	-55.307792	-212.44	1980.80
7	GUIDE	1114779840	10.61	19611	0.012	-0.054	0.172	0.275	63.430736	-55.319822	-1968.36	685.94

2.4 Star Slots

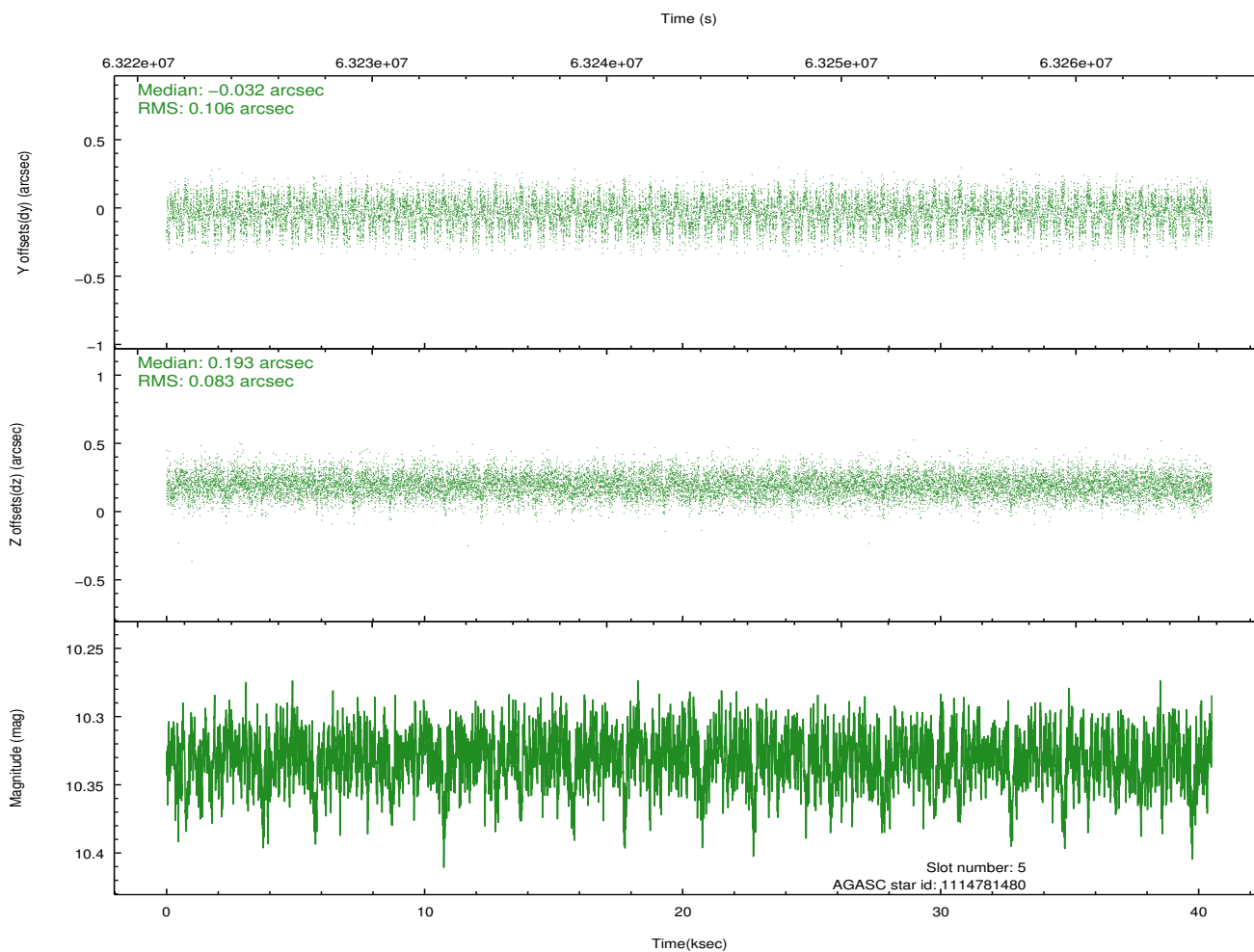
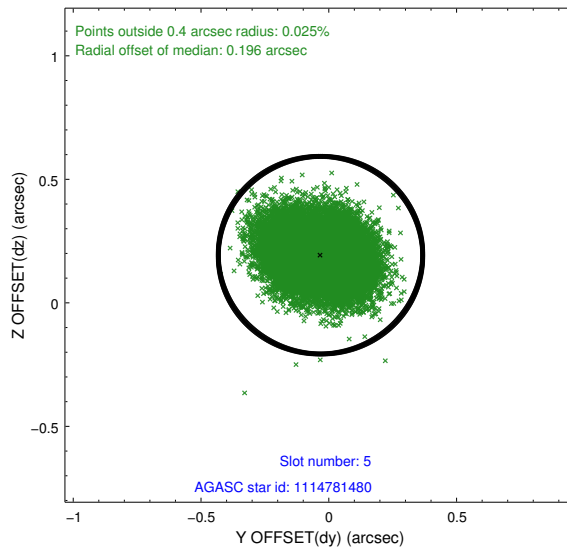
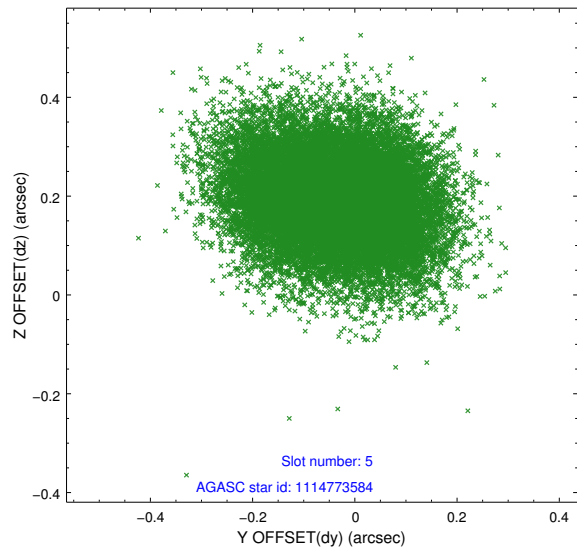
2.4.1 Slot 3



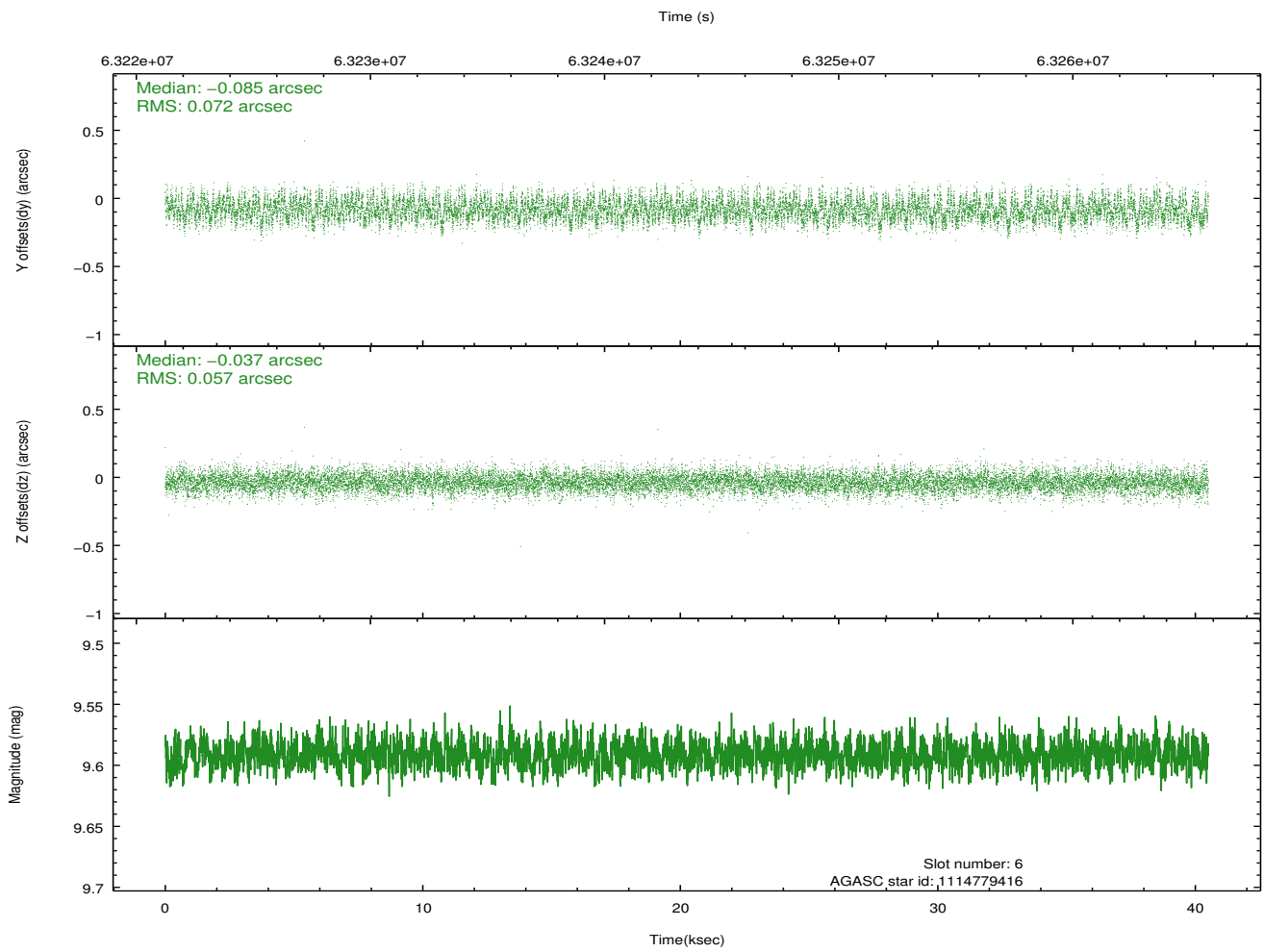
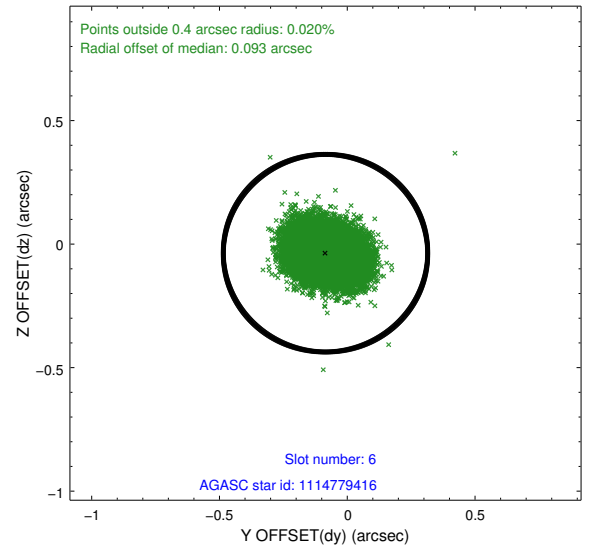
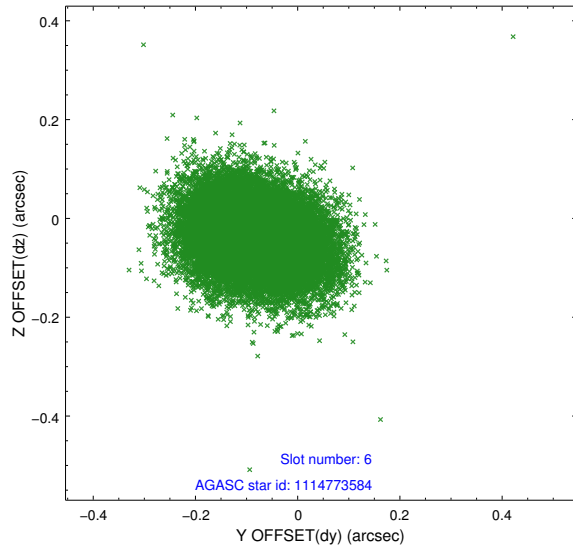
2.4.2 Slot 4



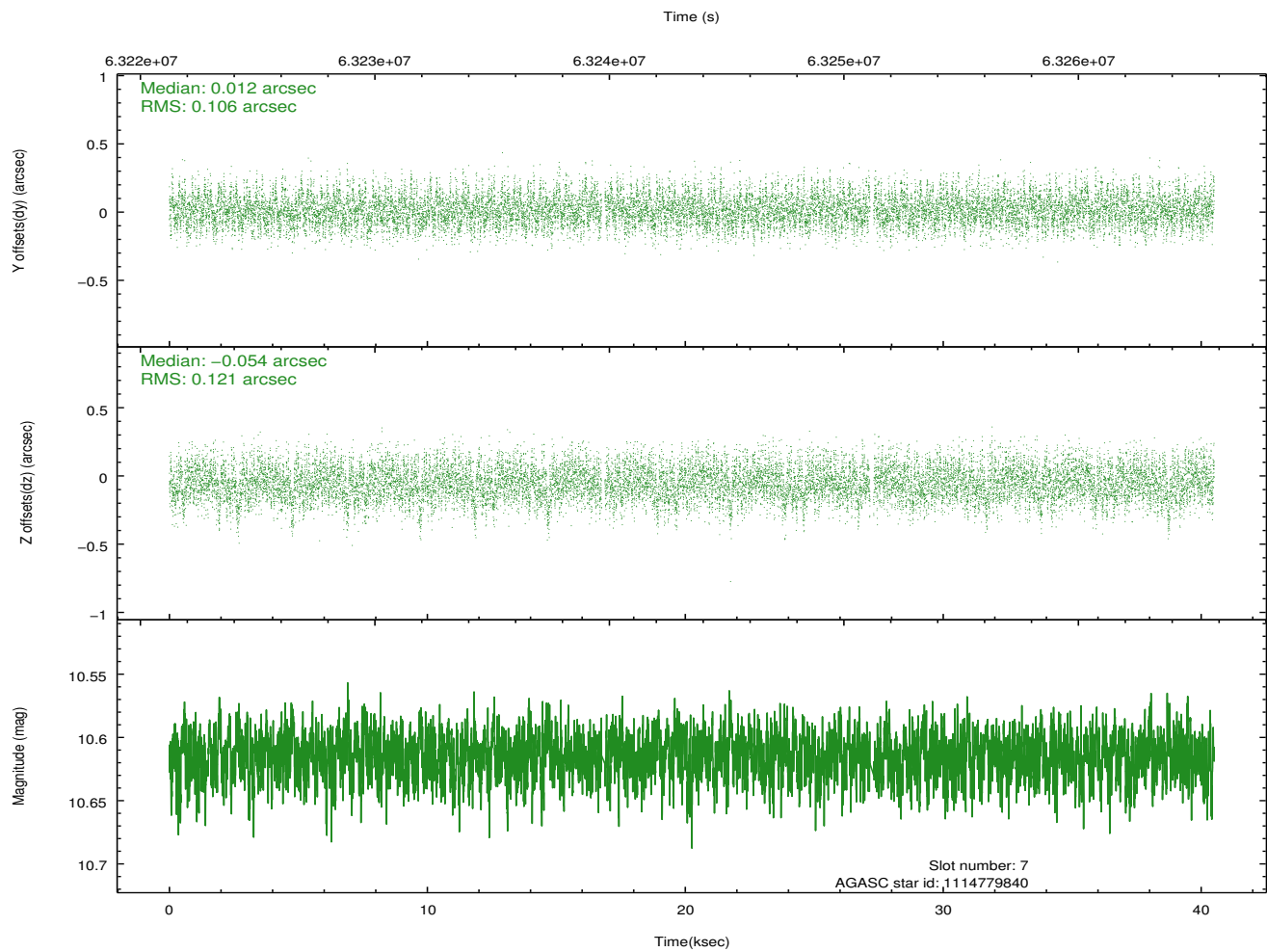
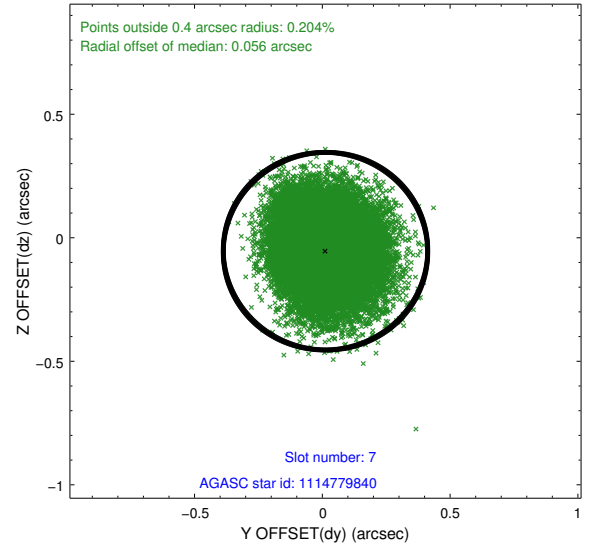
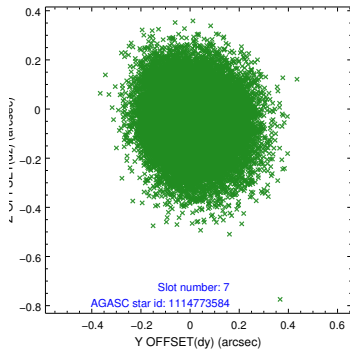
2.4.3 Slot 5



2.4.4 Slot 6

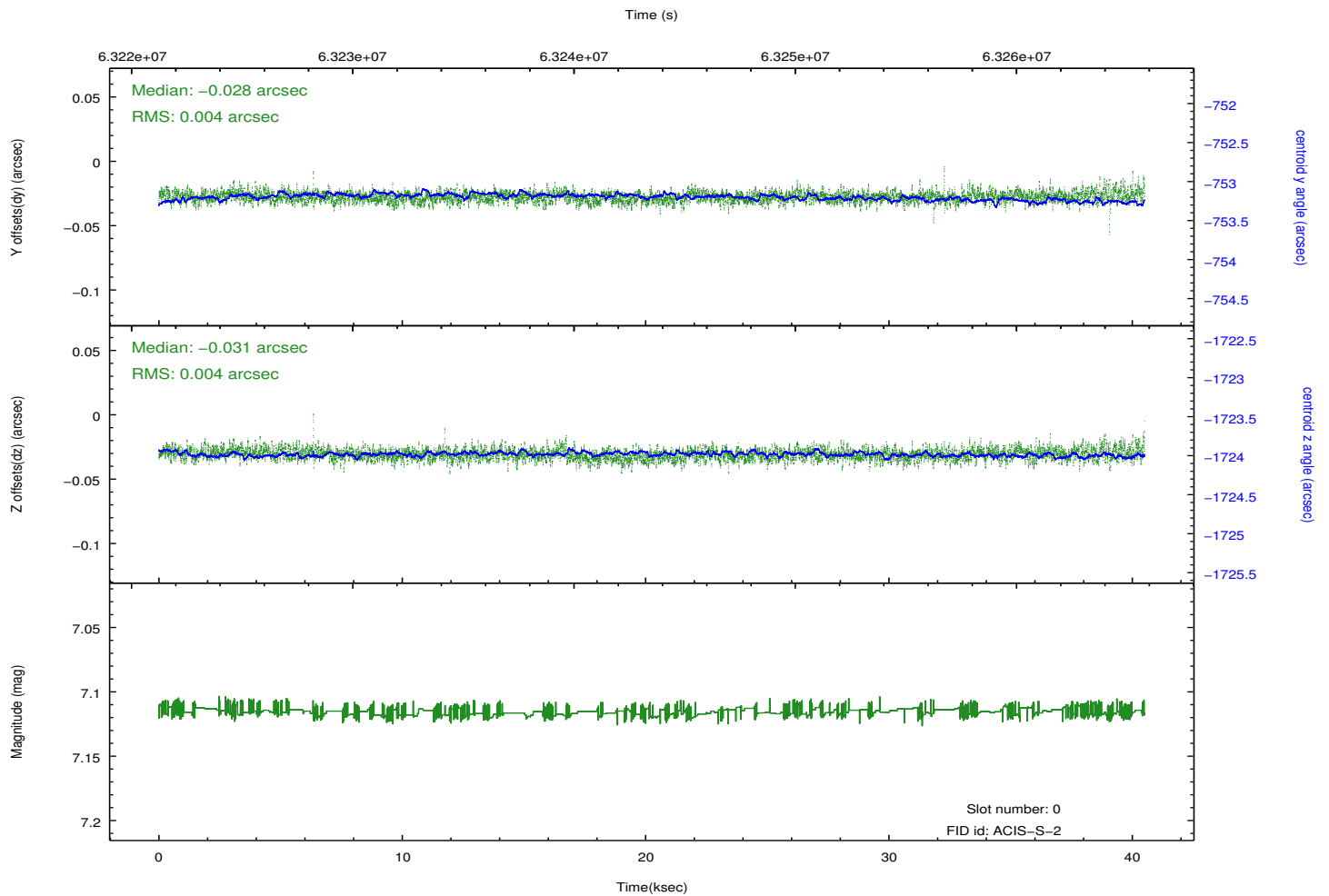
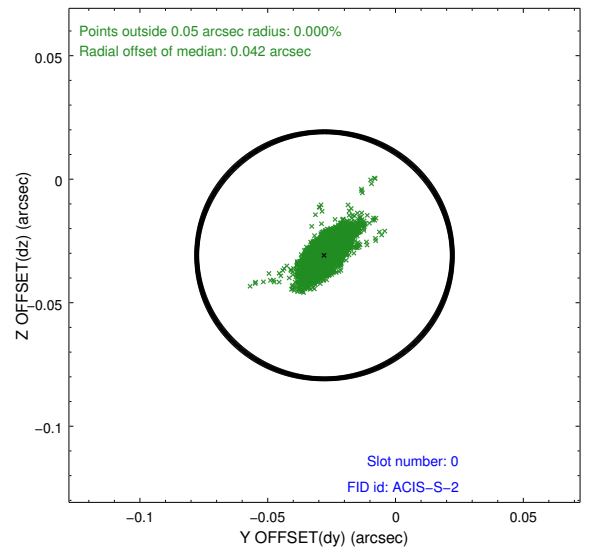
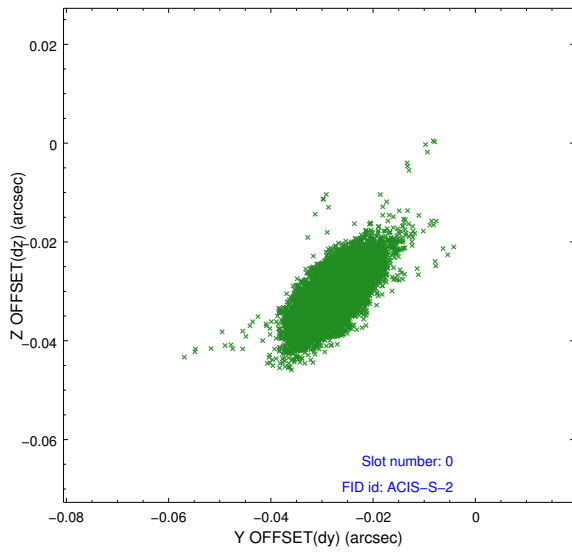


2.4.5 Slot 7

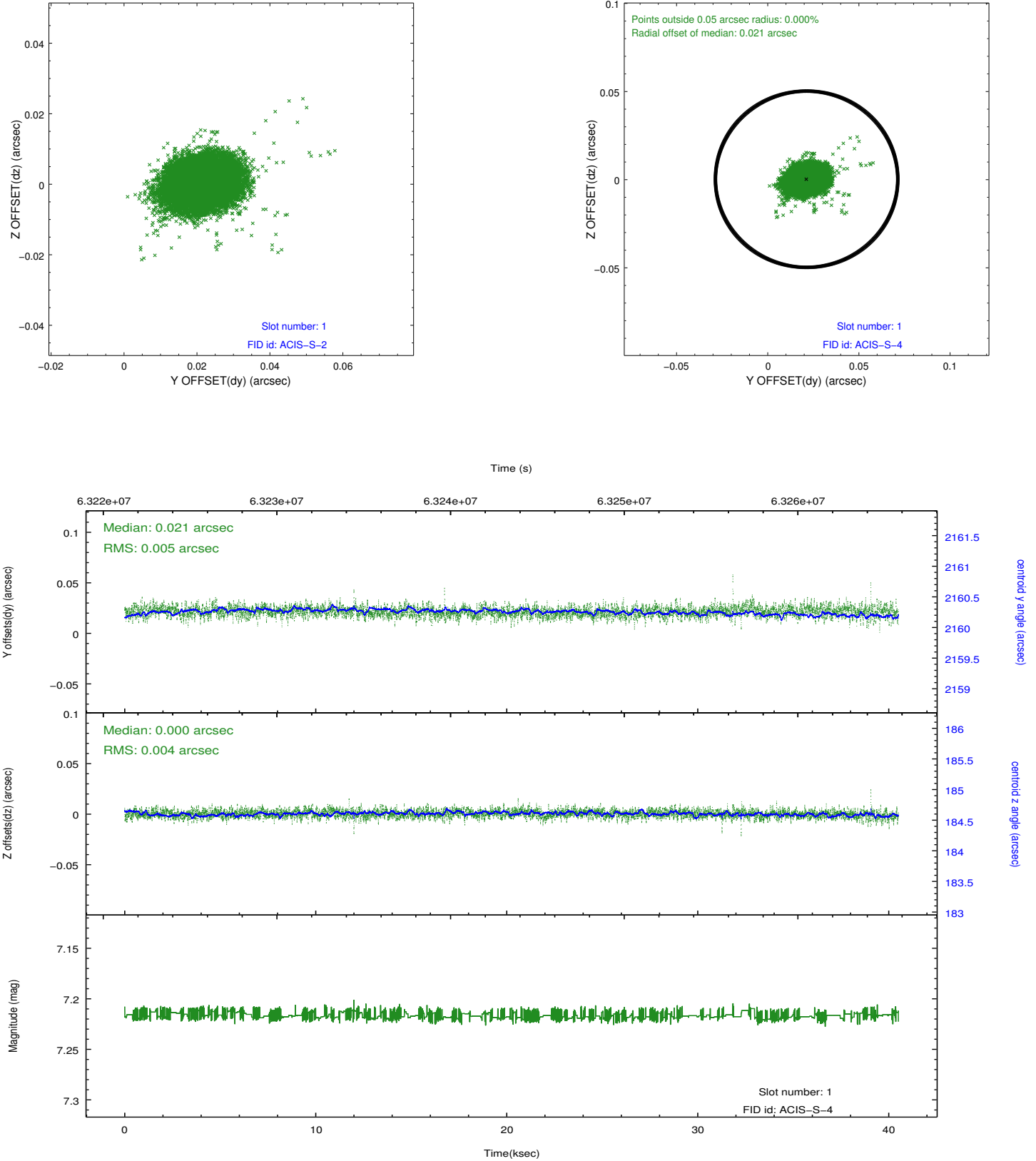


2.5 FID Slots

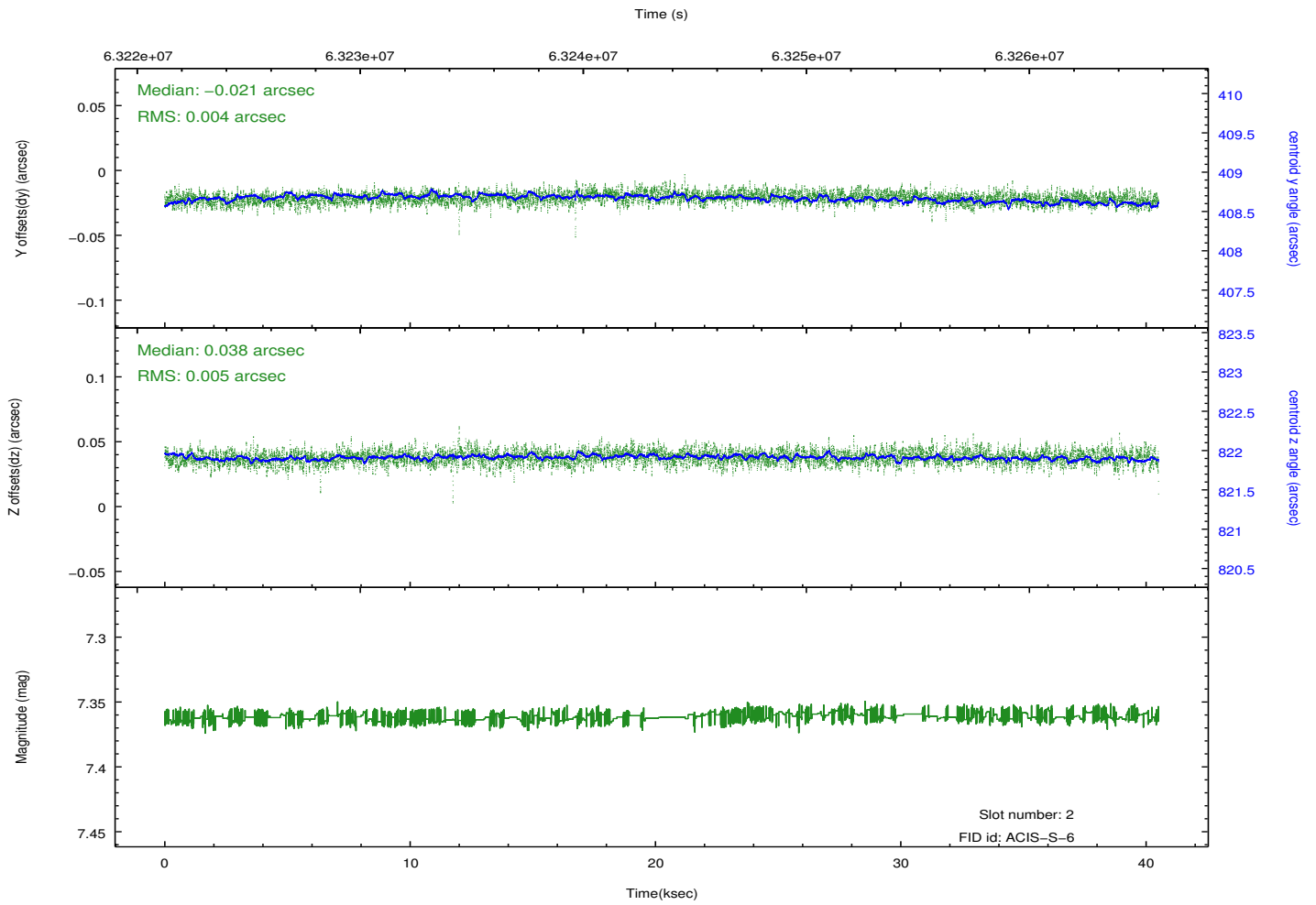
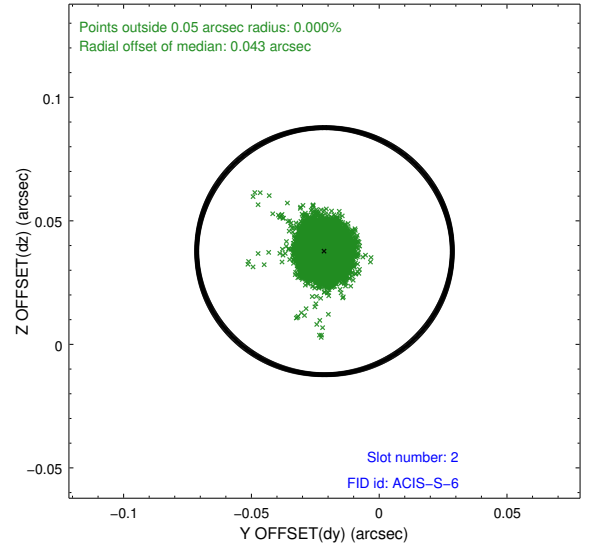
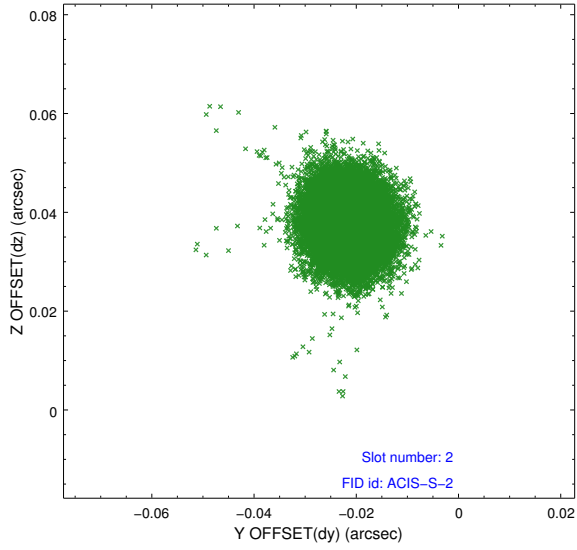
2.5.1 Slot 0



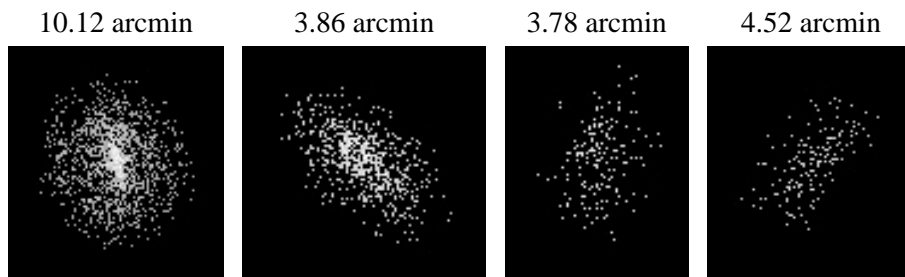
2.5.2 Slot 1



2.5.3 Slot 2



3 Point Sources



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2010.03.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	34.166

A.2 Comments

Several short periods of high radiation producing enhanced count rate during the observation.

===

The focal plane temperature is approximately -110 C during this observation. This reprocessing of the data applies no CTI correction because none is available for this temperature at present.

The ACIS CTI correction has not been calibrated at this temperature, because it was early in the mission, and ACIS had not yet been lowered to the standard -119.7 C. Both front and back illuminated chips are affected. However a T_GAIN correction has been applied to the BI chips (ACIS-5 and ACIS-7) data included here.

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.