

V&V Reference Report

L2 ASCDS Version : 10.2.2

Observation 16525 - L2 Version 2
Chandra X-Ray Center

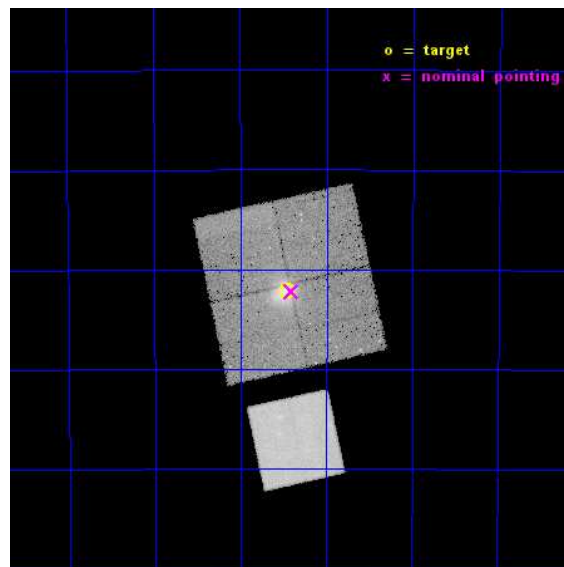
L2 Processing Date : Dec 11 2014

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1 Front

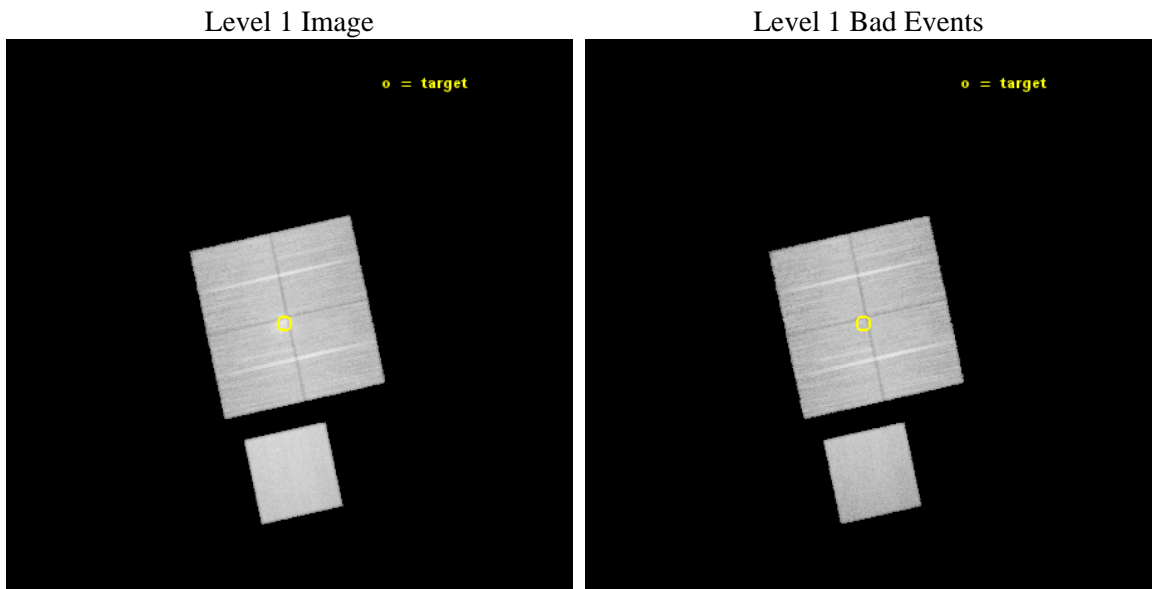
seq_num	801381	Sequence number
obs_id	16525	Observation id
title	SNAPSHOTS IN THE HISTORY OF DISSOCIATIVE MAJOR MERGERS	Proposal ti
observer	Dr Florian Pacaud	Principal investigator
object	Abell S0295	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	41.365417	Observer's specified target RA [deg]
dec_targ	-53.036111	Observer's specified target Dec [deg]
ra_nom	41.352044957231	Nominal RA [deg]
dec_nom	-53.036821421974	Nominal Dec [deg]
roll_nom	167.67354497936	Nominal Roll [deg]
revision	2	Processing version of data
ontime	45067.759376287	Sum of GTIs [s]
liveltime	44478.915921634	Livetime [s]
ontime0	45070.900346637	Sum of GTIs [s]
ontime1	45070.900346637	Sum of GTIs [s]
ontime2	45064.618425786	Sum of GTIs [s]
ontime3	45067.759376287	Sum of GTIs [s]
ontime7	45070.900346637	Sum of GTIs [s]
l2events	234779	Number of level 2 events



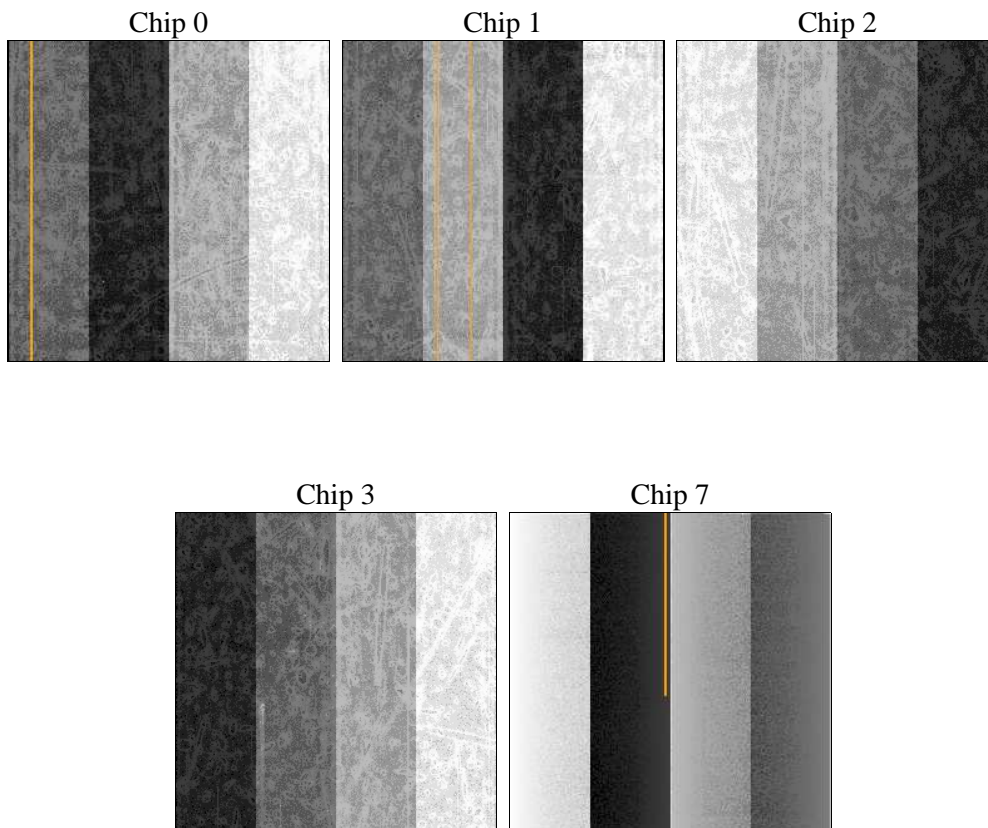
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	45000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	45067.759376287	Sum of GTIs [s]
caldbver	4.6.4	 	ontime0	45070.900346637	Sum of GTIs [s]
date	2014-12-11T22:35:35	Date and time of file creation	ontime1	45070.900346637	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	45064.618425786	Sum of GTIs [s]
			ontime3	45067.759376287	Sum of GTIs [s]
			ontime7	45070.900346637	Sum of GTIs [s]
			l1events	1154989	Number of level 1 events

2.1.4 Events

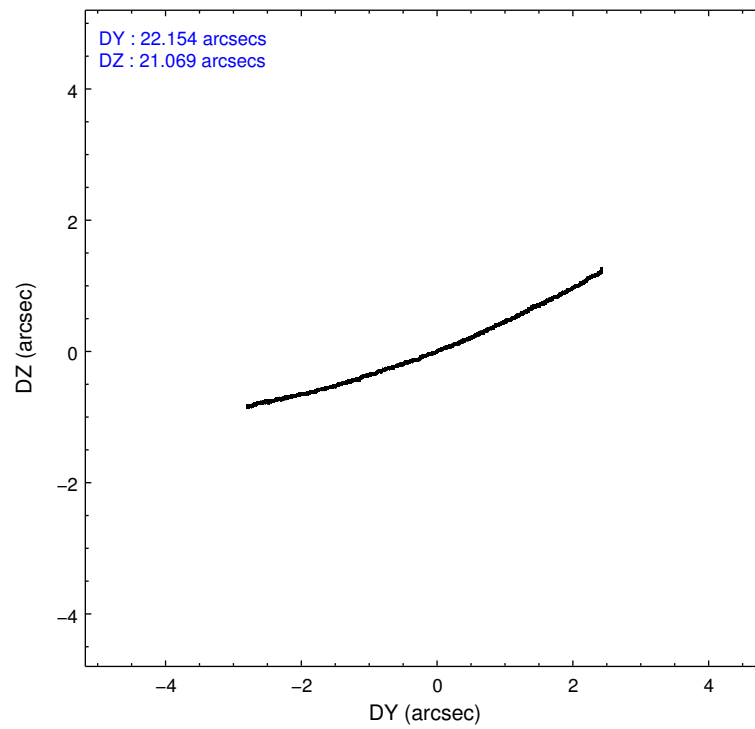
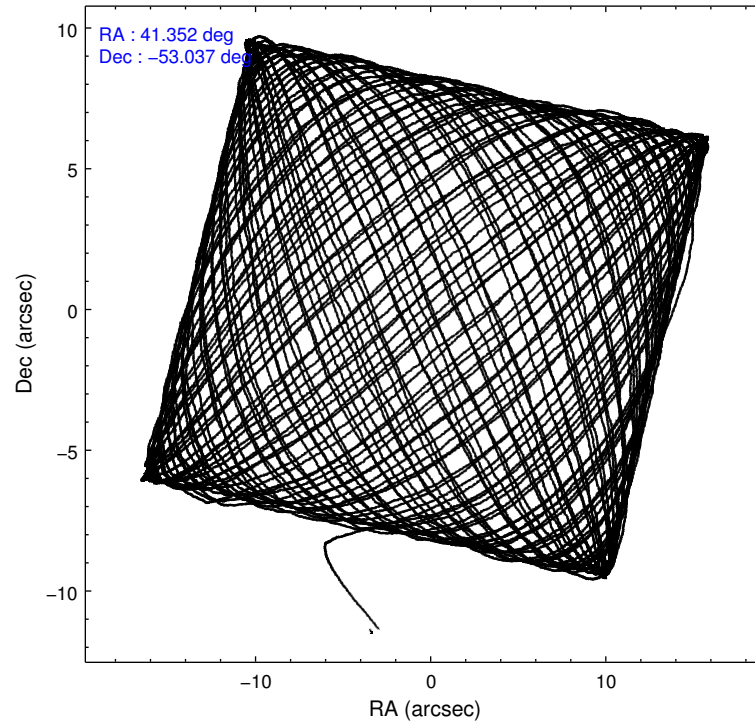
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	200474	208685	218378	223648	303804
rejected events	173656	177344	190368	186353	171179
rejected %	86%	84%	87%	83%	56%

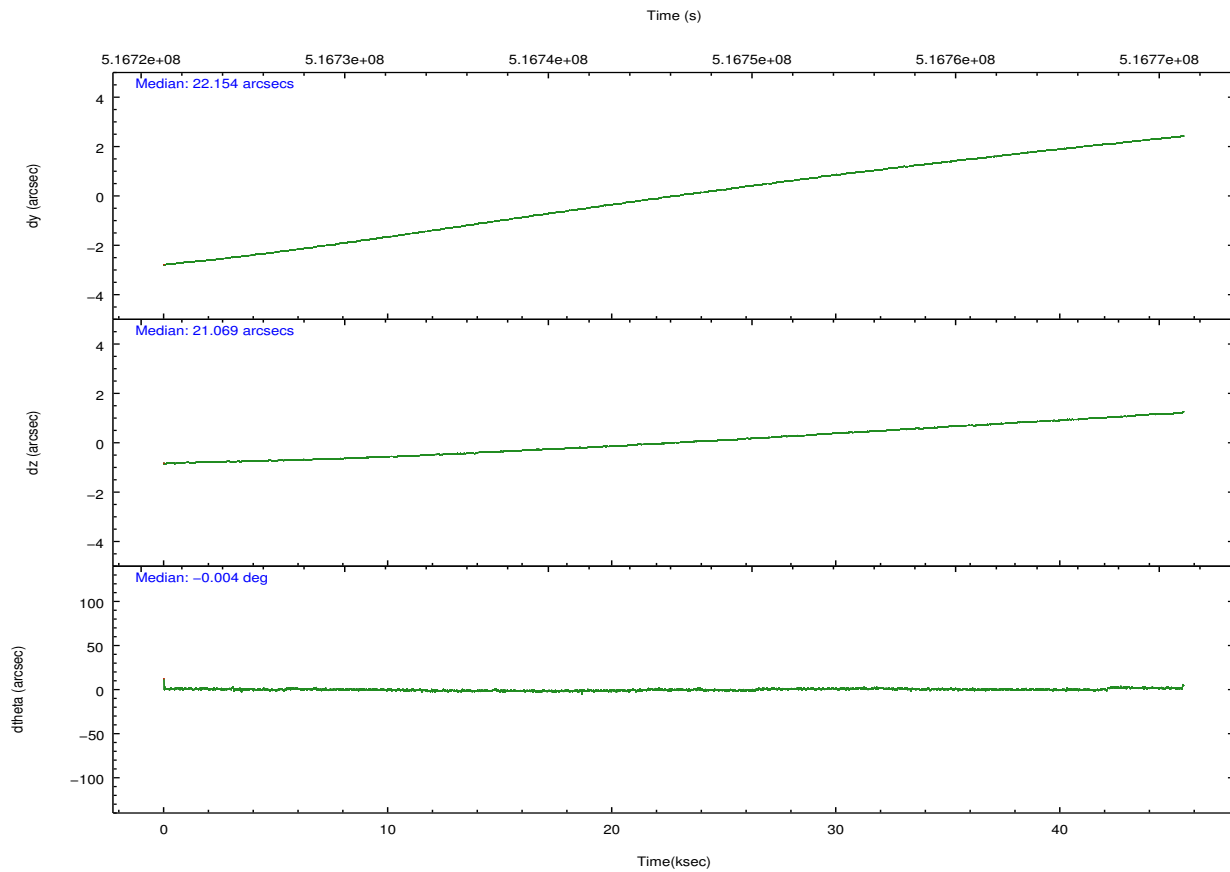
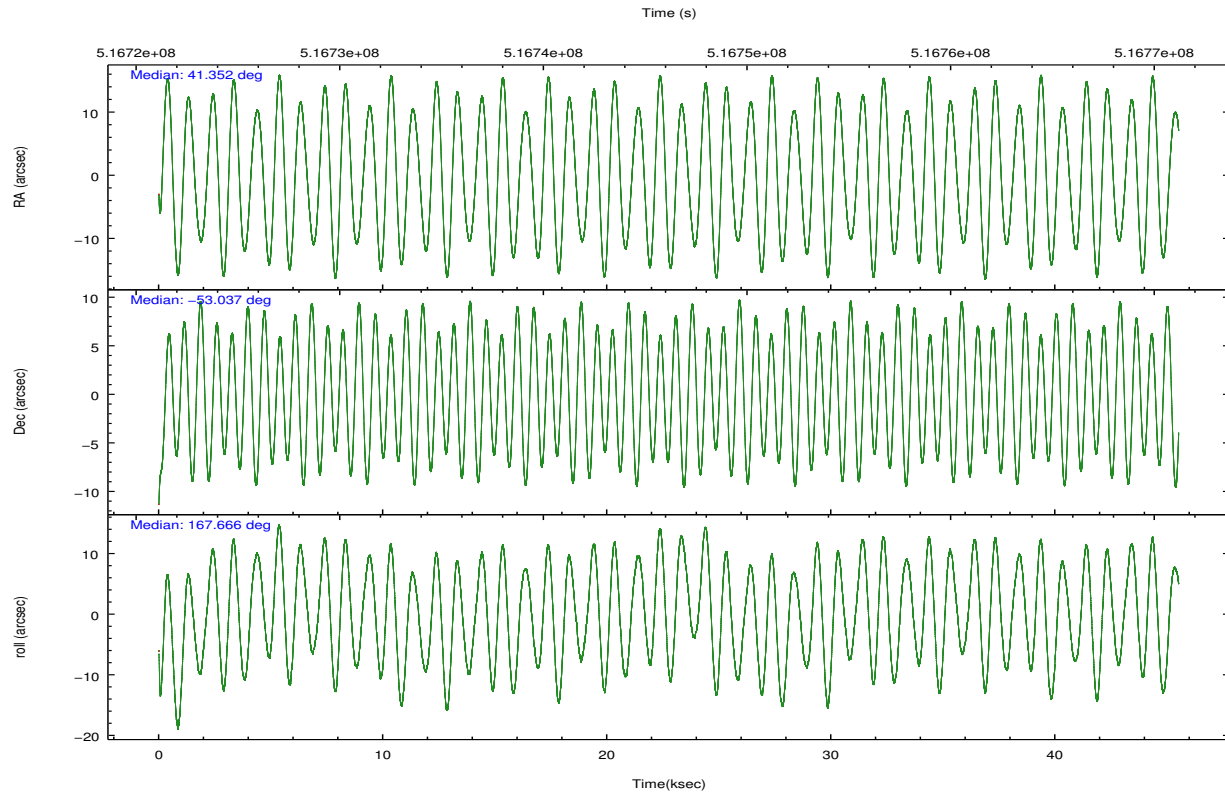
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
grade 0 events	9583	11917	11130	18640	12191
	4%	5%	5%	8%	4%
grade 1 events	105	107	129	162	341
	0%	0%	0%	0%	0%
grade 2 events	6702	7480	6425	6974	27334
	3%	3%	2%	3%	8%
grade 3 events	2766	2750	2613	2969	11290
	1%	1%	1%	1%	3%
grade 4 events	2481	2866	2761	3027	11176
	1%	1%	1%	1%	3%
grade 5 events	10366	11161	9428	11851	30880
	5%	5%	4%	5%	10%
grade 6 events	5286	6329	5083	5689	70634
	2%	3%	2%	2%	23%
grade 7 events	163185	166075	180809	174336	139958
	81%	79%	82%	77%	46%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01237	ACIS-01237	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
[deg] Pointing RA	41.395540	41.35204495723121	Subarray requested	NONE	NONE
[deg] Pointing Dec	-53.028353	-53.03682142197415	Alternating exposures requested	N	N
[deg] Pointing Roll	167.499608	167.6735449793623	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	516723922.184000	516722819.6441			
Observation start date	2014-05-17T14:24:15	2014-05-17T14:06:59			
[s] Observation end time (MET)	516768922.184000	516770075.73421			
Observation end date	2014-05-18T02:54:15	2014-05-18T03:14:35			
Read mode	TIMED	TIMED			

2.3 Aspect





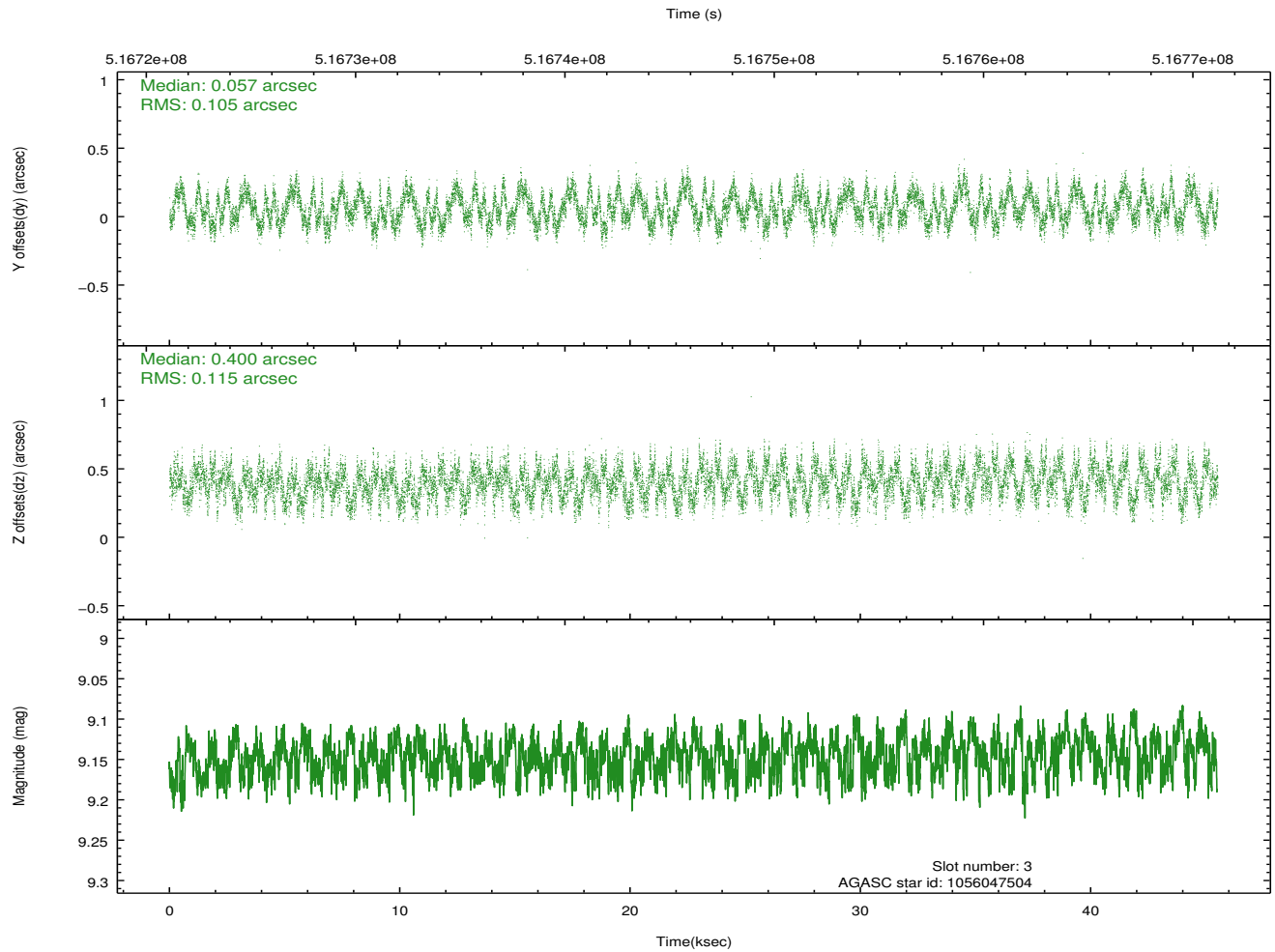
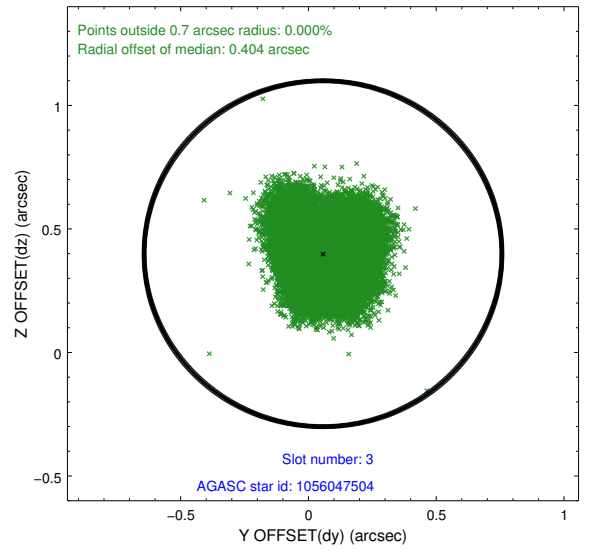
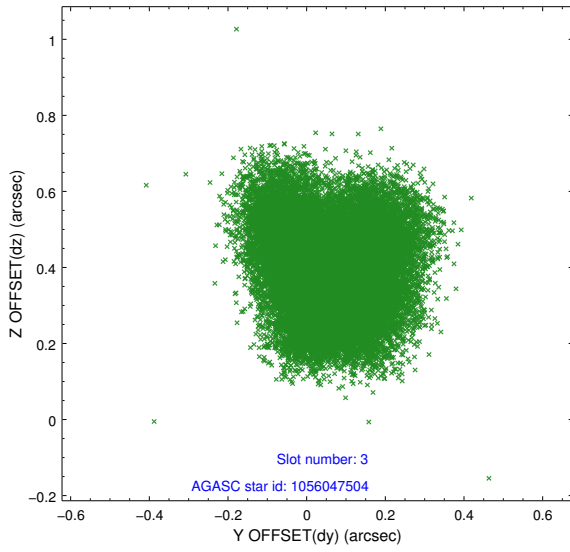
Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-2	6.98	11098	-0.111	-0.085	0.039	0.059	0.000000	0.000000	-777.06	-851.36
1	FID		ACIS-I-4	7.00	11101	0.266	0.088	0.046	0.065	0.000000	0.000000	2137.32	1055.08
2	FID		ACIS-I-5	7.05	11101	-0.234	0.062	0.022	0.033	0.000000	0.000000	-1831.07	1052.77
3	GUIDE	used	1056047504	9.15	22180	0.057	0.400	0.170	0.256	41.496916	-52.433184	246.76	-2139.70
4	GUIDE	used	1112932480	8.36	22197	0.117	0.265	0.283	0.567	41.121788	-52.787610	770.00	-715.48
5	GUIDE	used	1112937160	7.89	22202	-0.080	-0.227	0.105	0.153	40.691929	-52.972857	1530.85	142.84
6	GUIDE	used	1112939176	8.78	22183	0.170	-0.170	0.168	0.257	41.725683	-53.516285	-1070.38	1563.44
7	GUIDE	used	1112936088	7.45	22200	-0.271	-0.265	0.110	0.211	40.359428	-53.320074	1944.23	1523.26

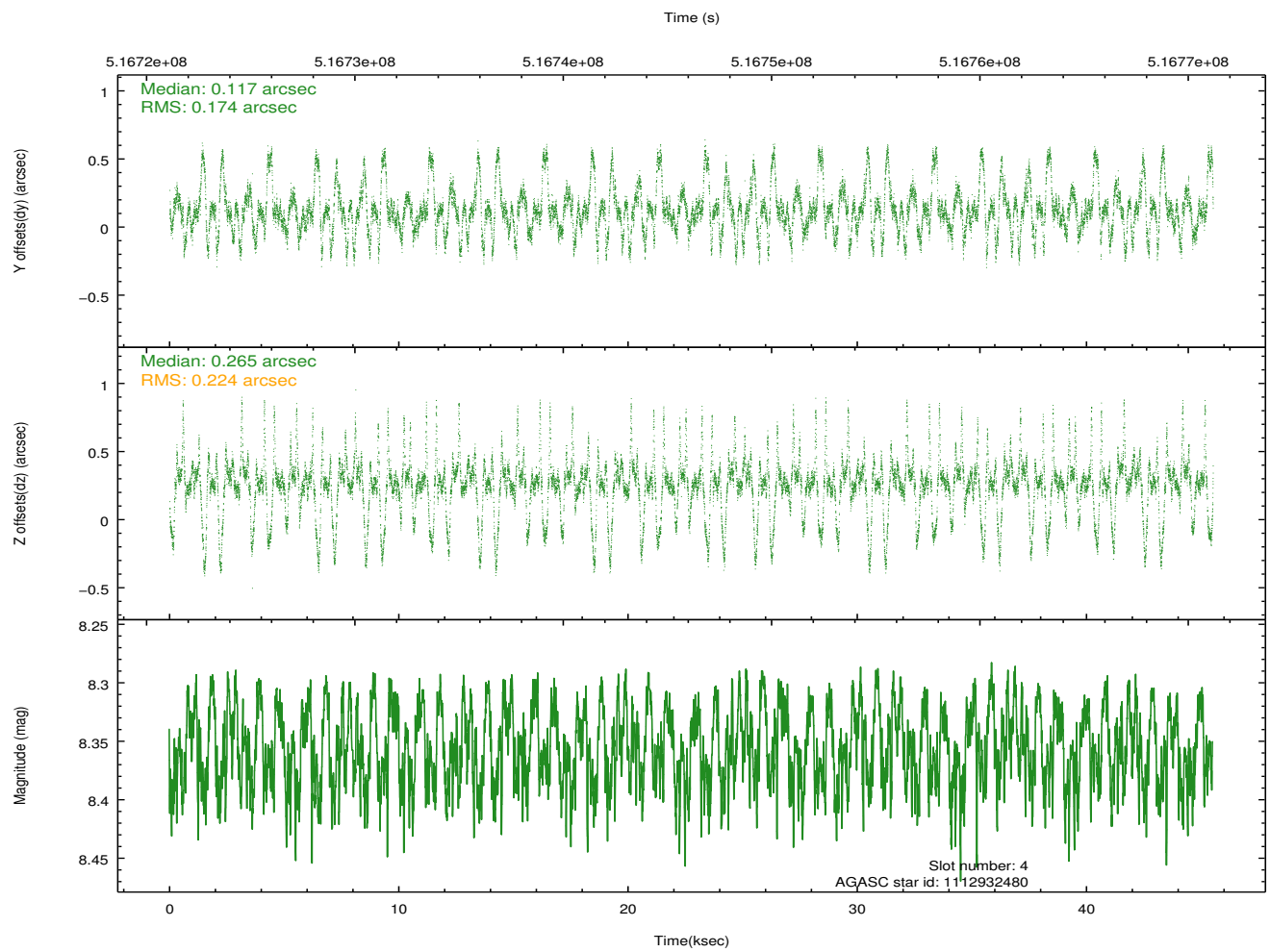
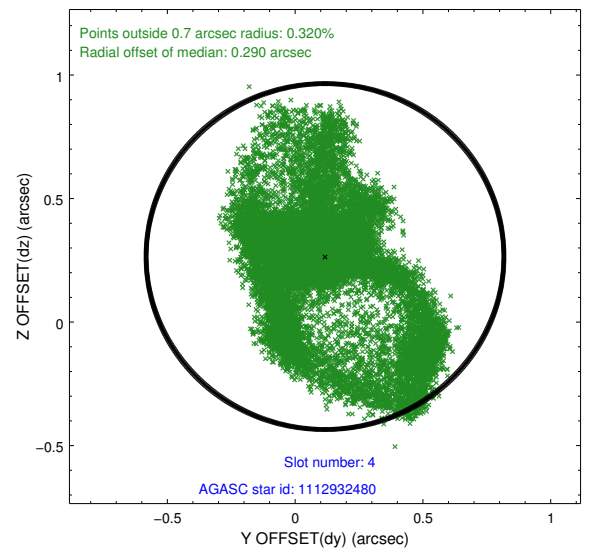
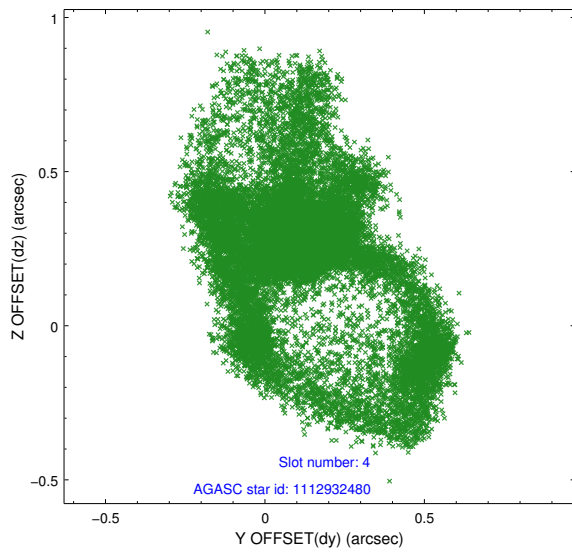
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2.4 Star Slots

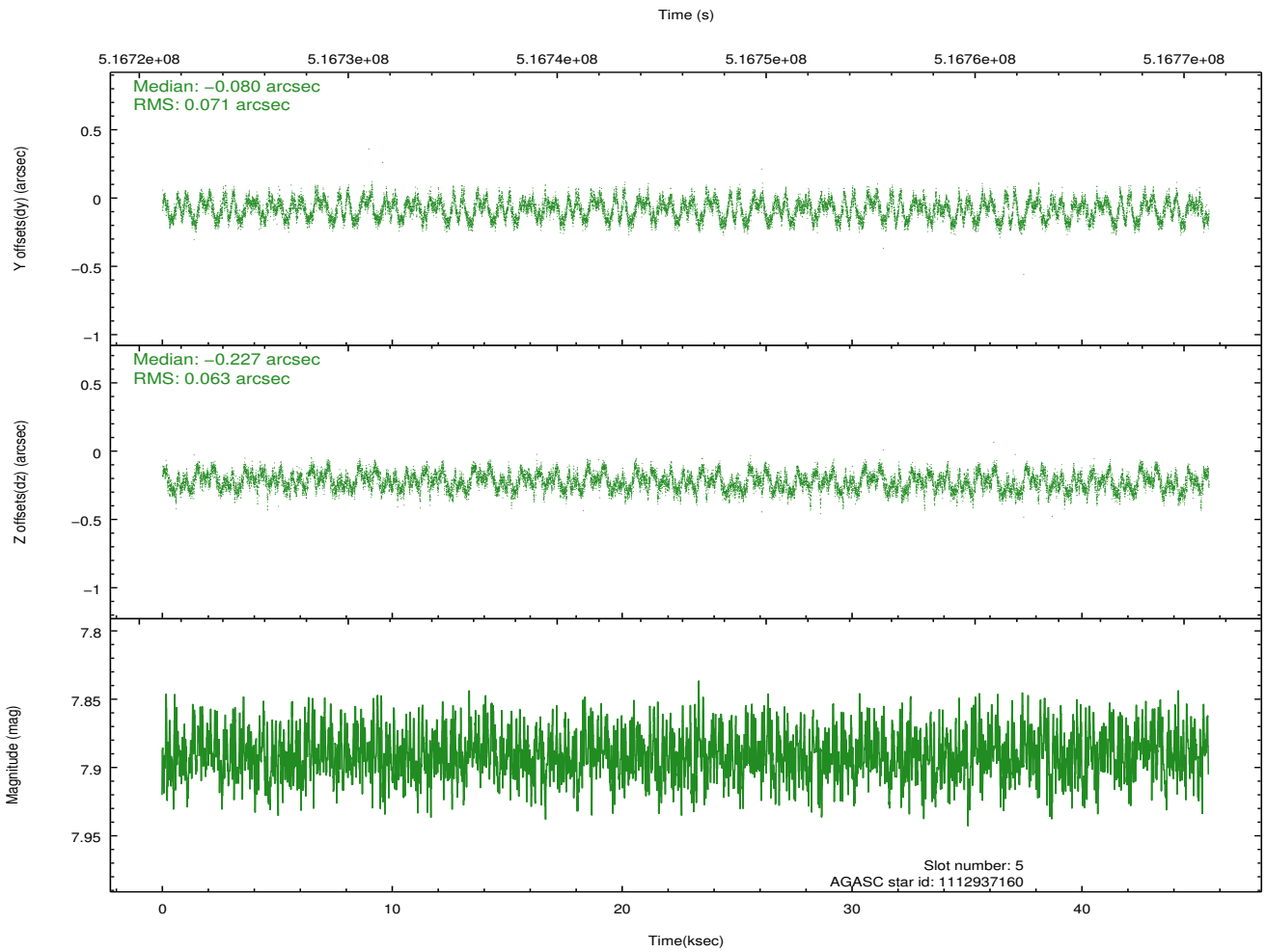
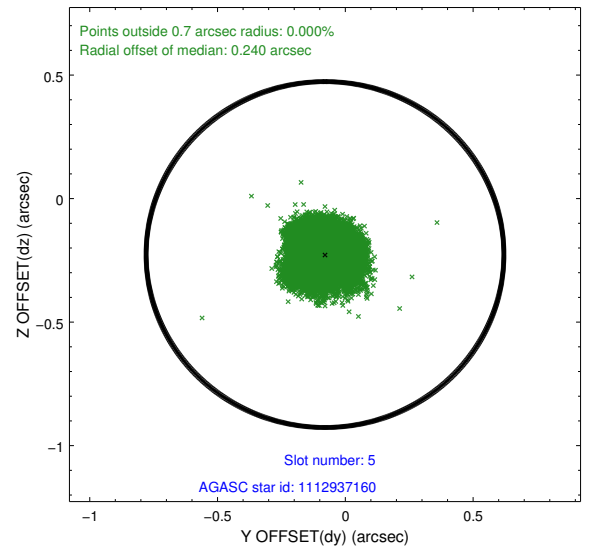
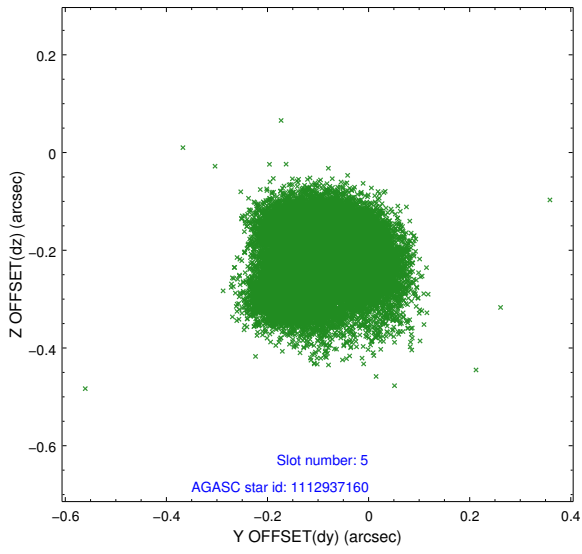
2.4.1 Slot 3



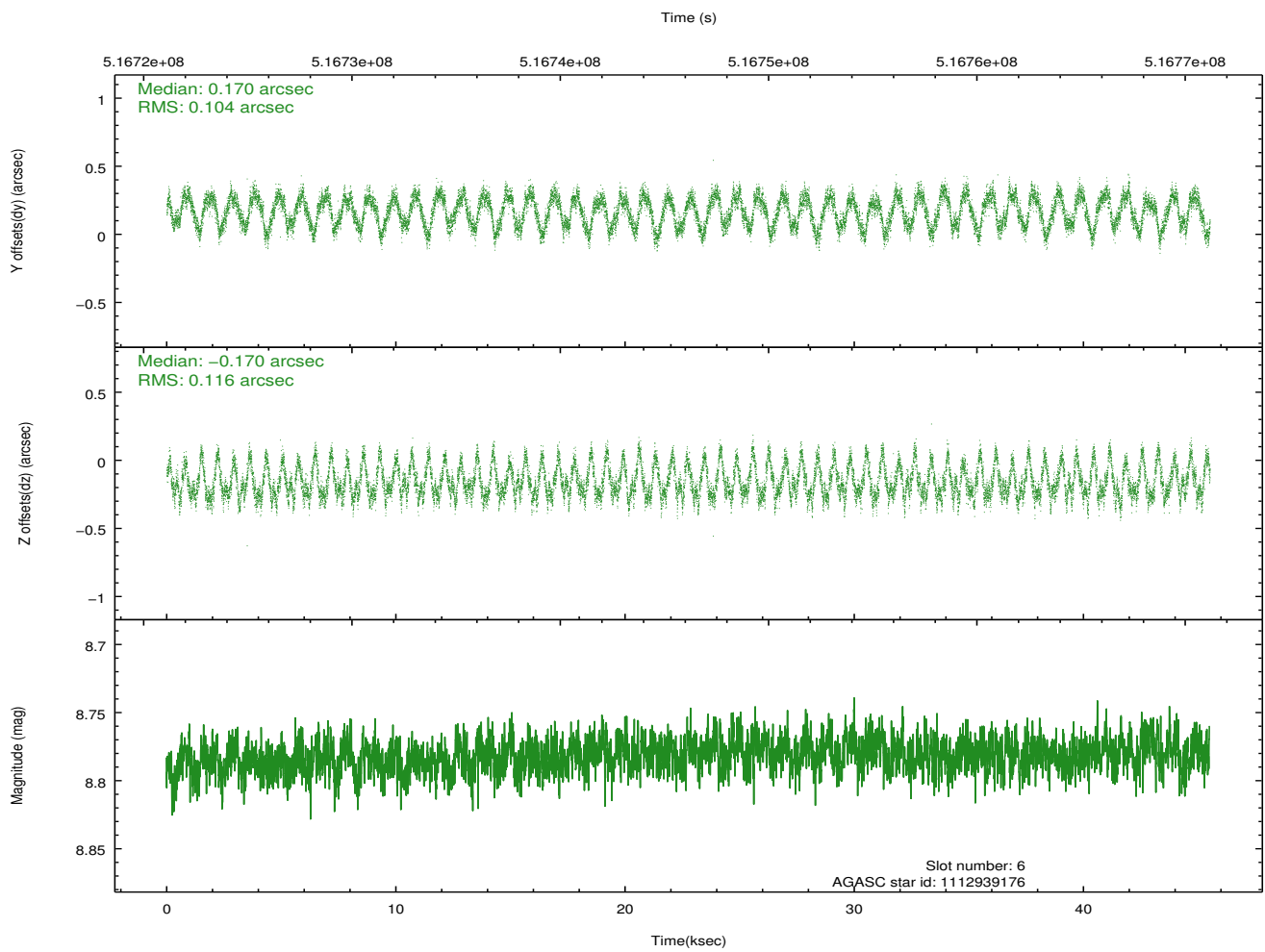
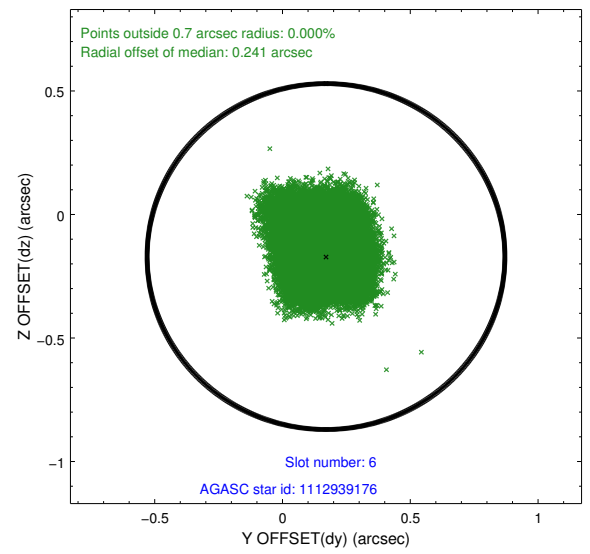
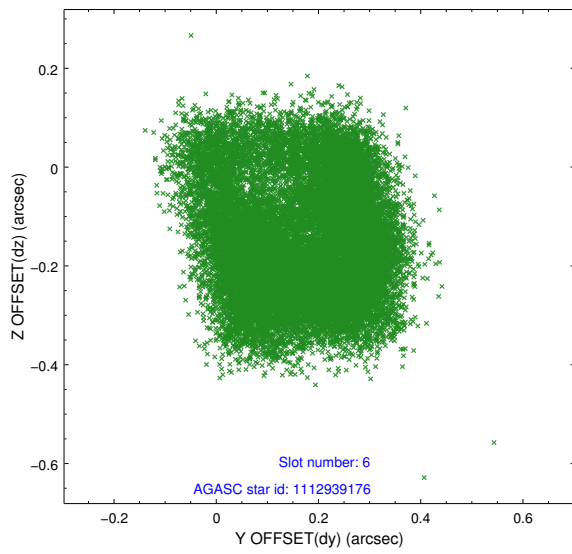
2.4.2 Slot 4



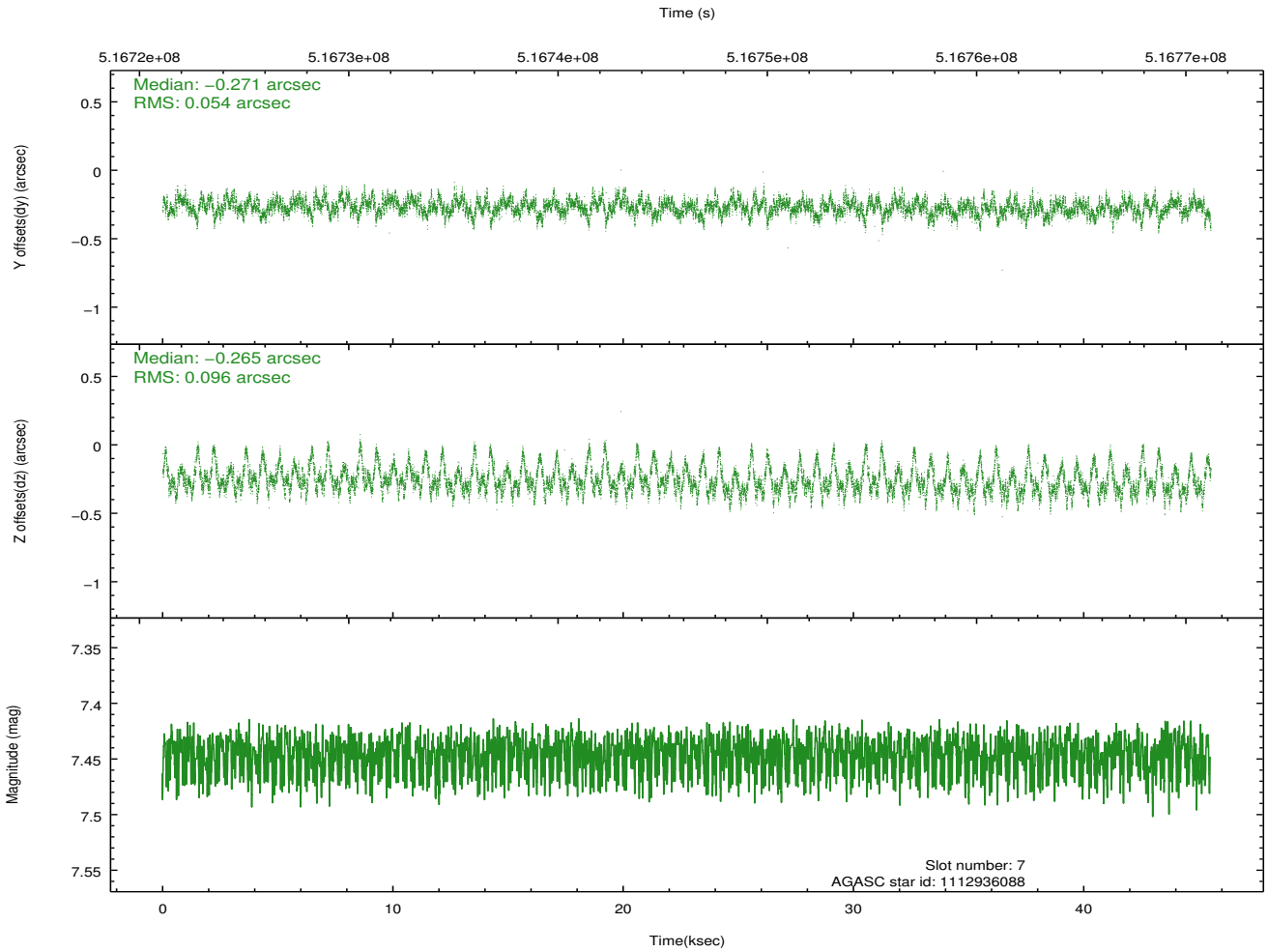
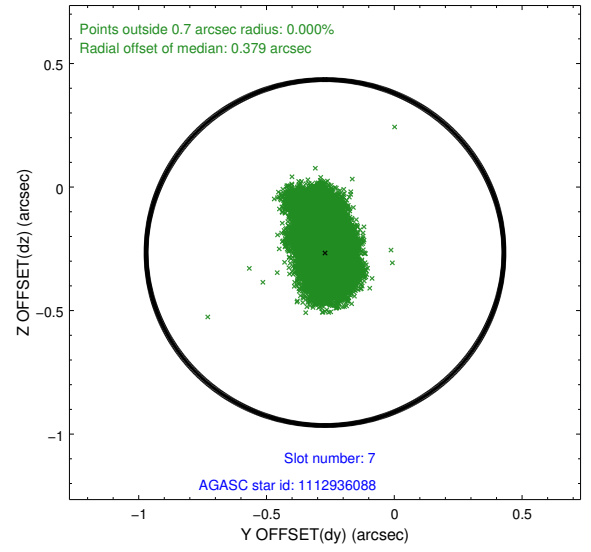
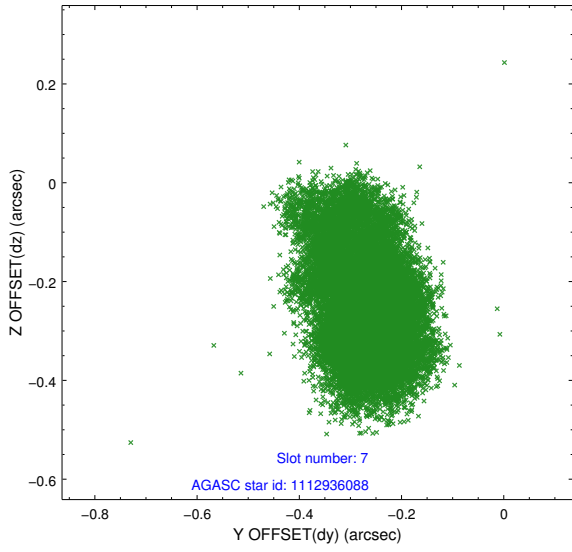
2.4.3 Slot 5



2.4.4 Slot 6

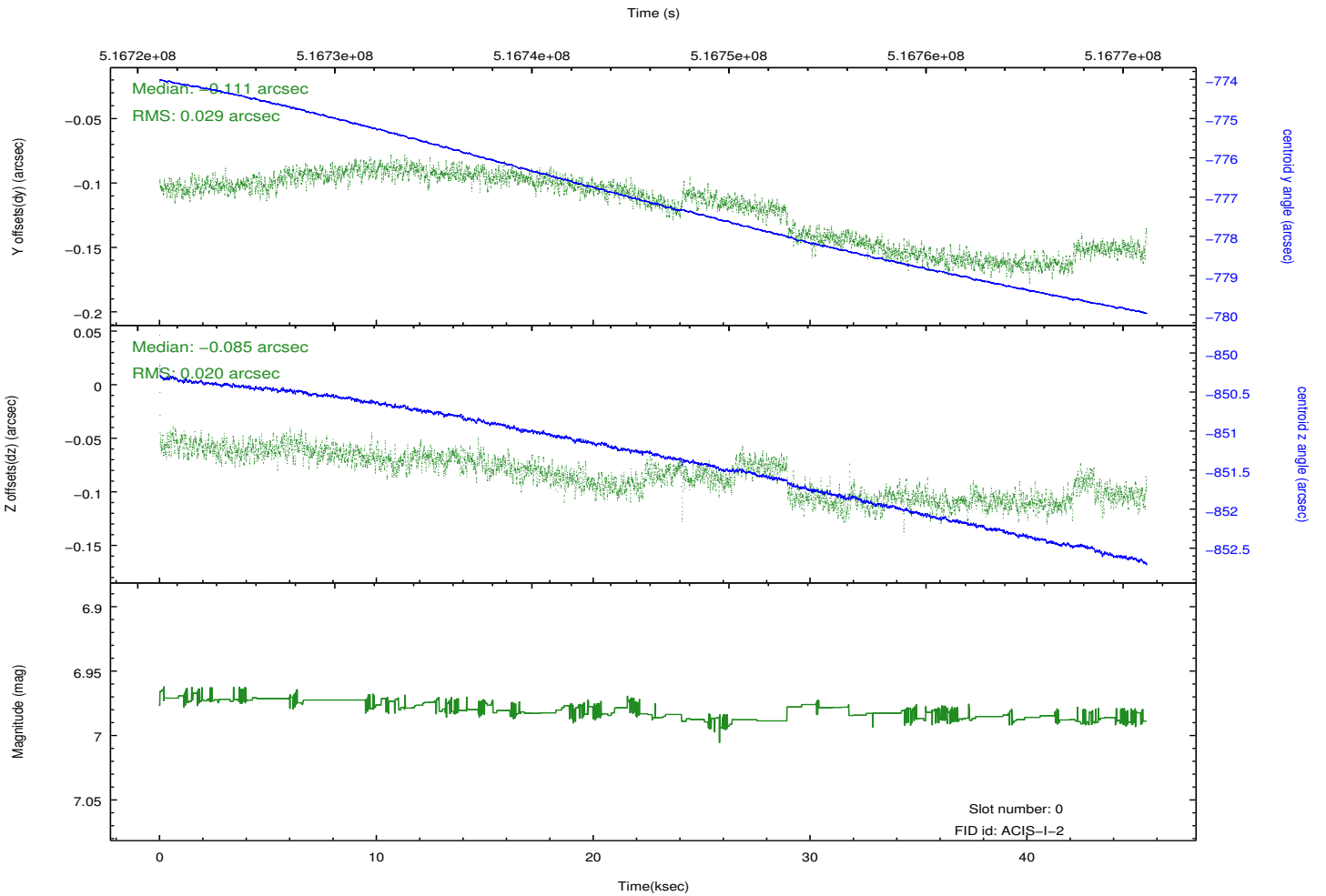
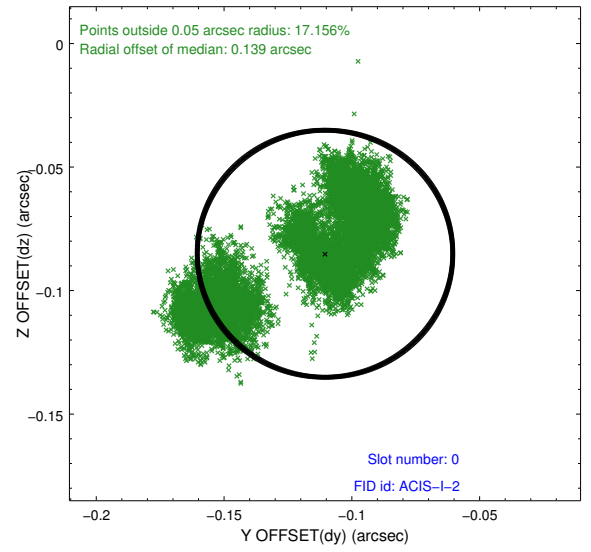
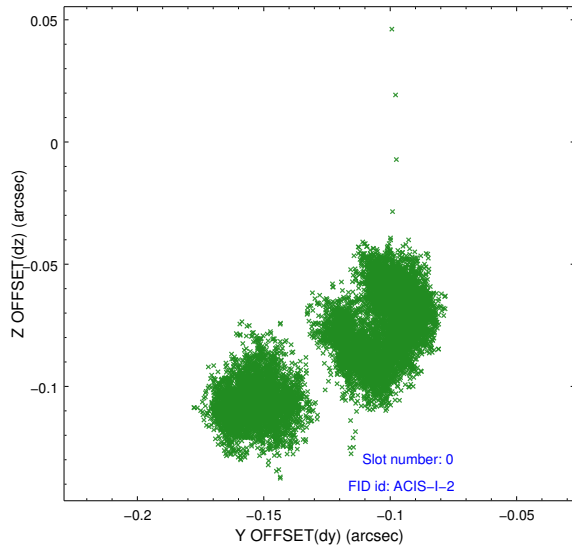


2.4.5 Slot 7

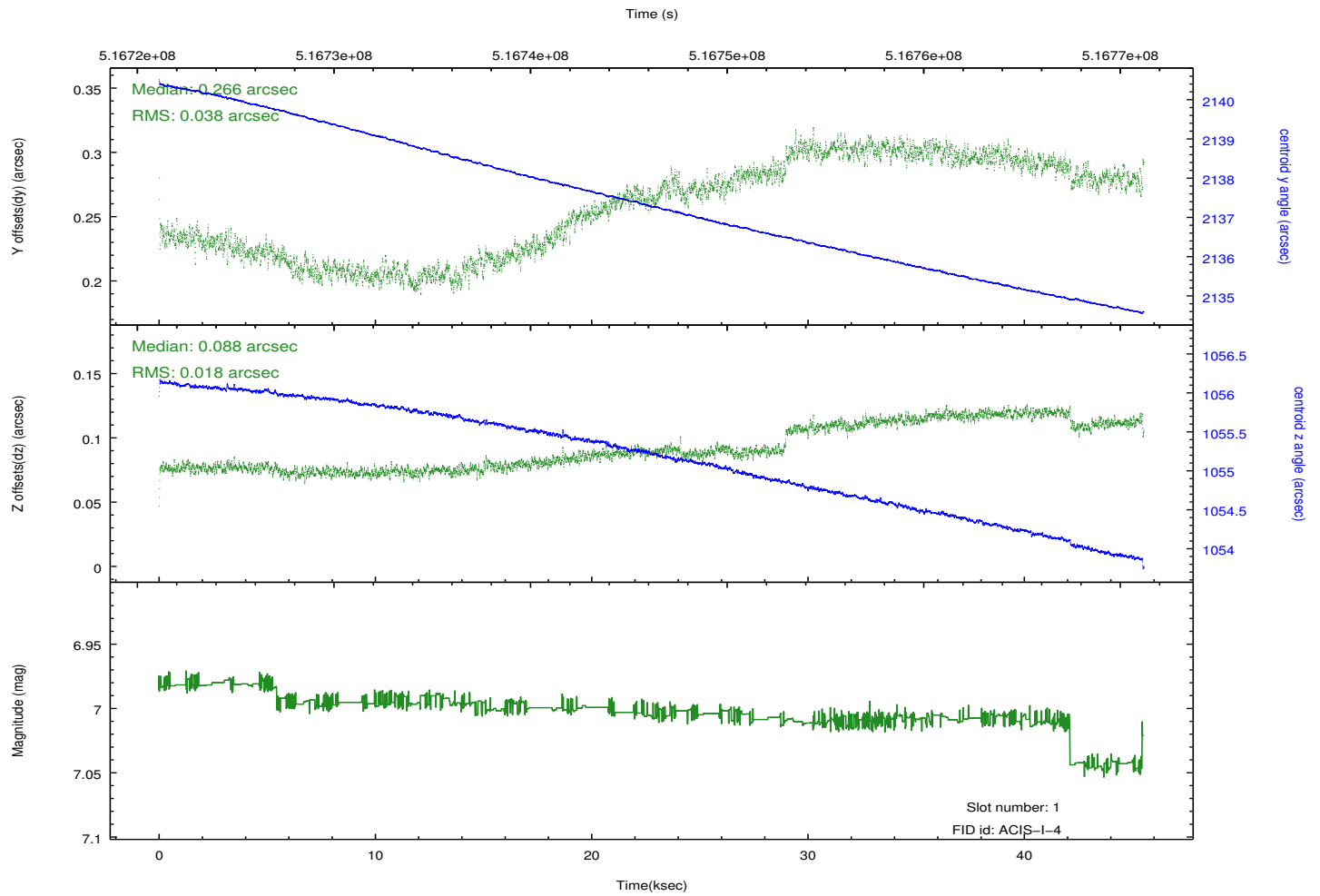
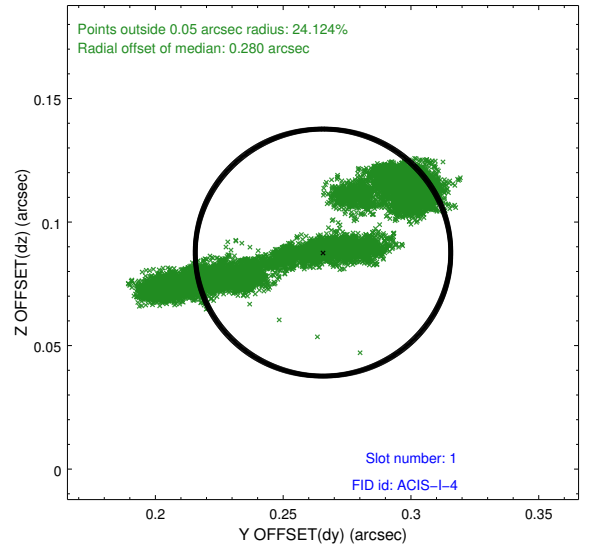
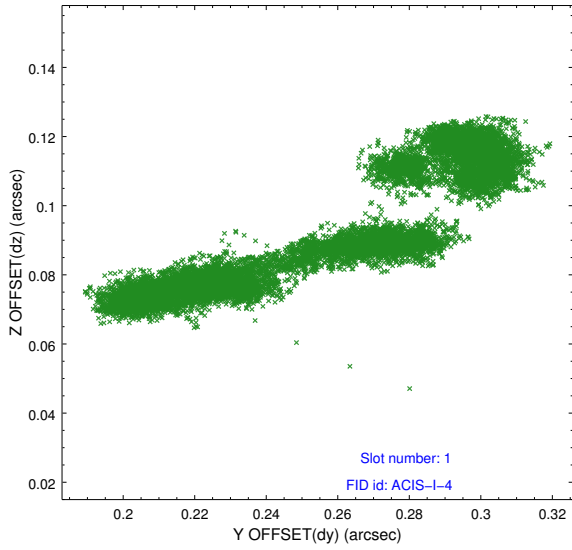


2.5 FID Slots

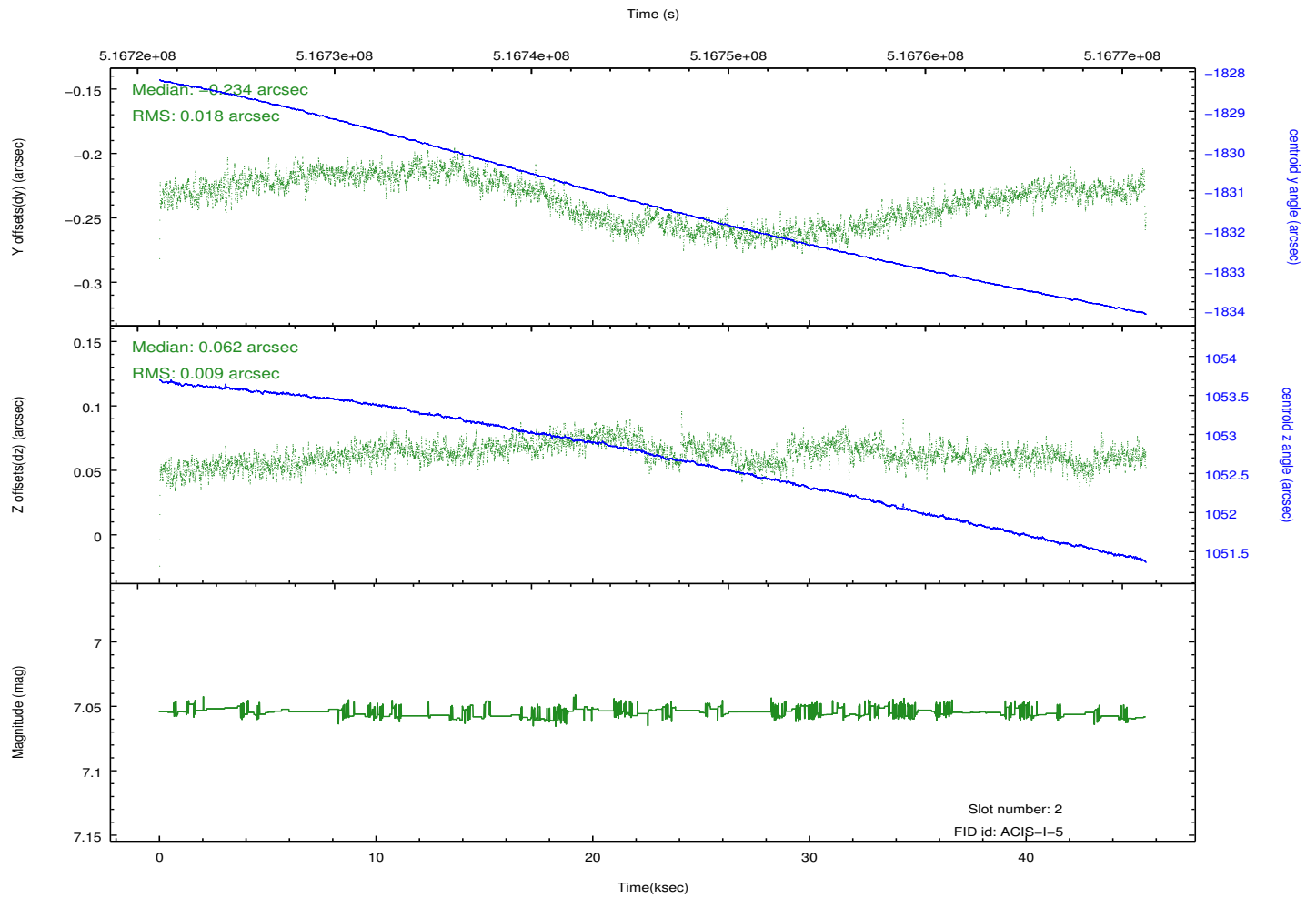
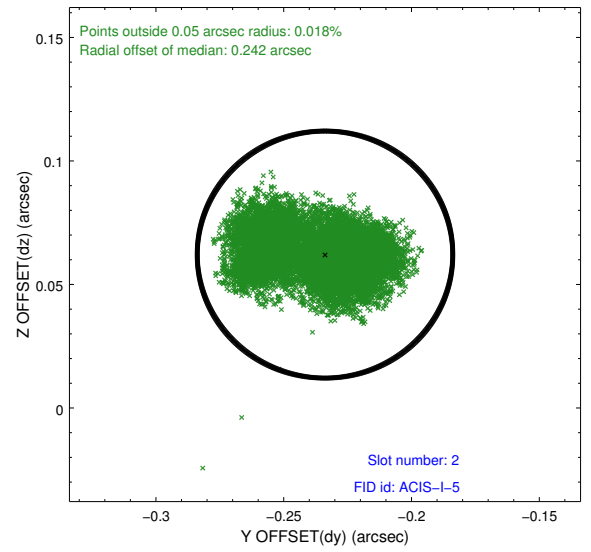
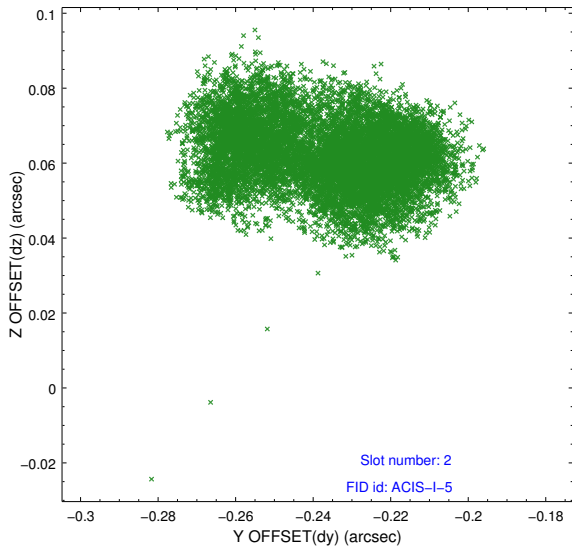
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2014.12.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	45.067759376287

A.2 Comments

Joint proposal with HST.

These data have been reprocessed with new aspect alignment calibration files that correct small mean offsets (up to 0.4 arcsecs) and improve overall astrometric accuracy. The new calibration was determined using data from the time period being reprocessed and was performed using cross-correlation of X-ray sources with radio and optical counterparts.