

V&V Reference Report

L2 ASCDS Version : 8.1.1

Observation 901 - L2 Version 4
Chandra X-Ray Center

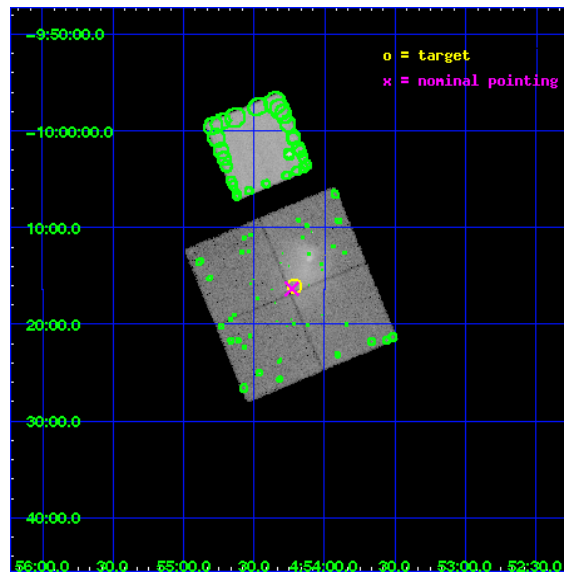
L2 Processing Date : Nov 26 2009

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
3	Point Sources	17
A	Summary	18
A.1	Status	18
A.2	Comments	18

1 Front

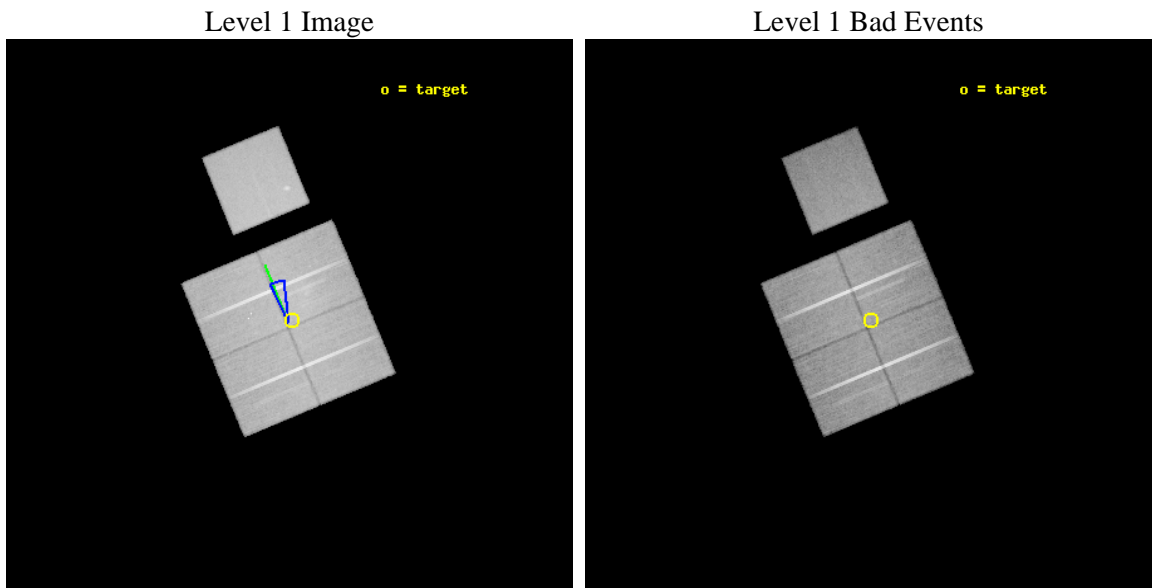
seq_num	800077	Sequence number
obs_id	901	Observation id
title	A521, A CLUSTER FORMING AT THE CROSSING OF TWO FILAMENTS?	Proposal
observer	DR MONIQUE ARNAUD	Principal investigator
object	A521	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	73.554167	Observer's specified target RA
dec_targ	-10.268889	Observer's specified target Dec
ra_nom	73.557843728165	Nominal RA
dec_nom	-10.272591189463	Nominal Dec
roll_nom	337.41293173906	Nominal Roll
revision	4	Processing version of data
ontime	39163.209596783	Sum of GTIs [s]
livetime	38667.301455615	Livetime [s]
ontime0	39163.33276663	Sum of GTIs [s]
ontime1	39156.809756346	Sum of GTIs [s]
ontime2	39160.009736419	Sum of GTIs [s]
ontime3	39163.209596783	Sum of GTIs [s]
ontime7	39166.614756927	Sum of GTIs [s]
l2events	274011	Number of level 2 events



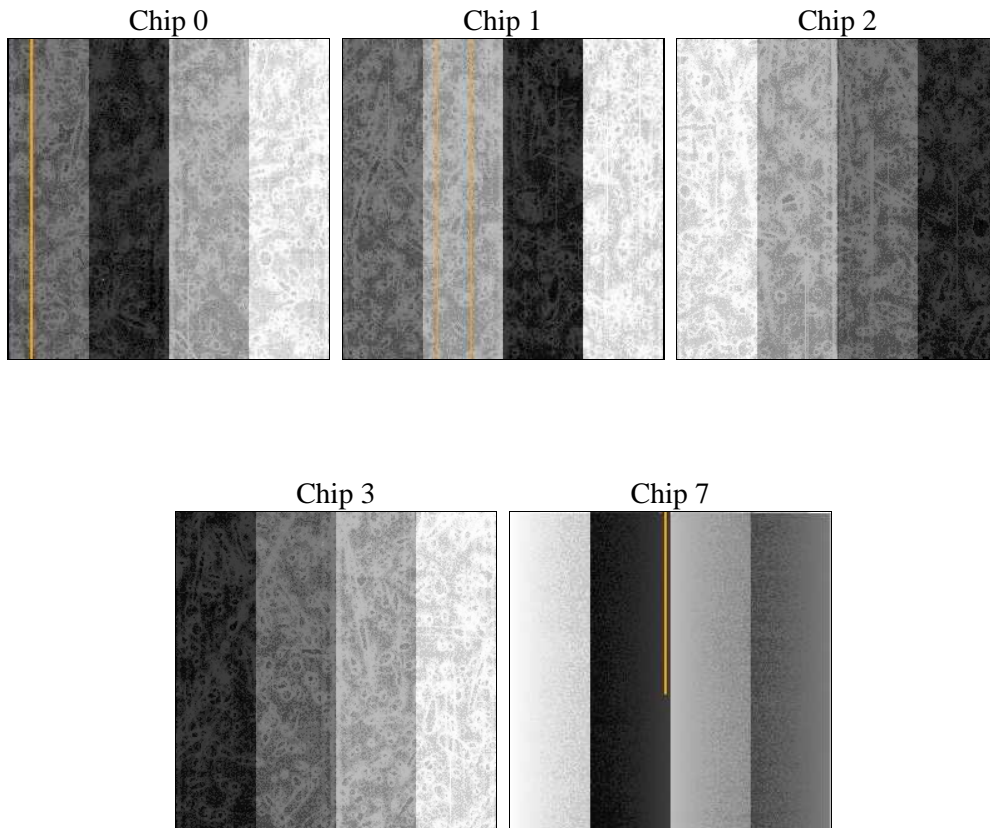
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	40000.000000	Scheduled observation exposure time
ascdsver	8.1.1	ASCDS version number	ontime	39163.209596783	Sum of GTIs [s]
caldbver	4.1.4	 	ontime0	39163.33276663	Sum of GTIs [s]
date	2009-11-26T10:57:08	Date and time of file creation	ontime1	39156.809756346	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	39160.009736419	Sum of GTIs [s]
			ontime3	39163.209596783	Sum of GTIs [s]
			ontime7	39166.614756927	Sum of GTIs [s]
			l1events	1655649	Number of level 1 events

2.1.4 Events

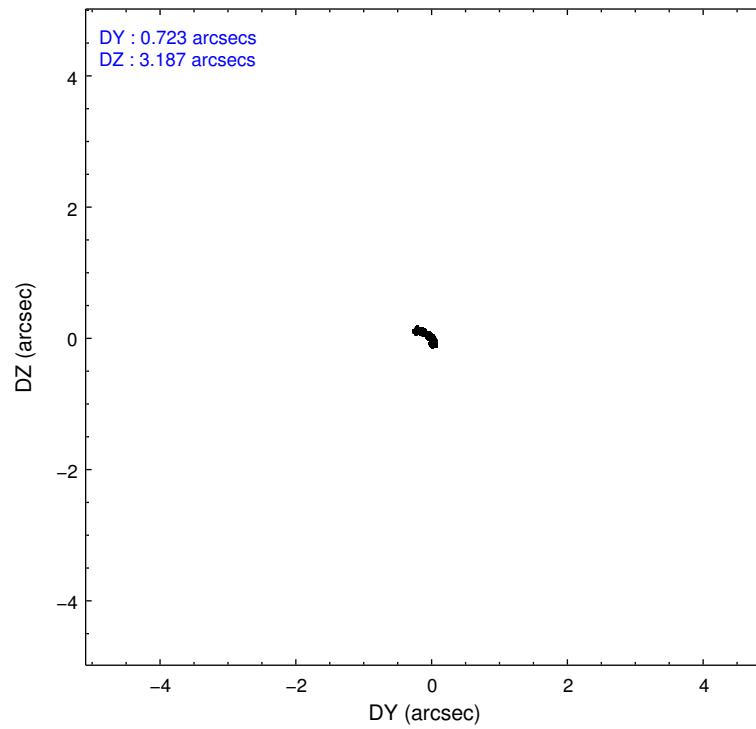
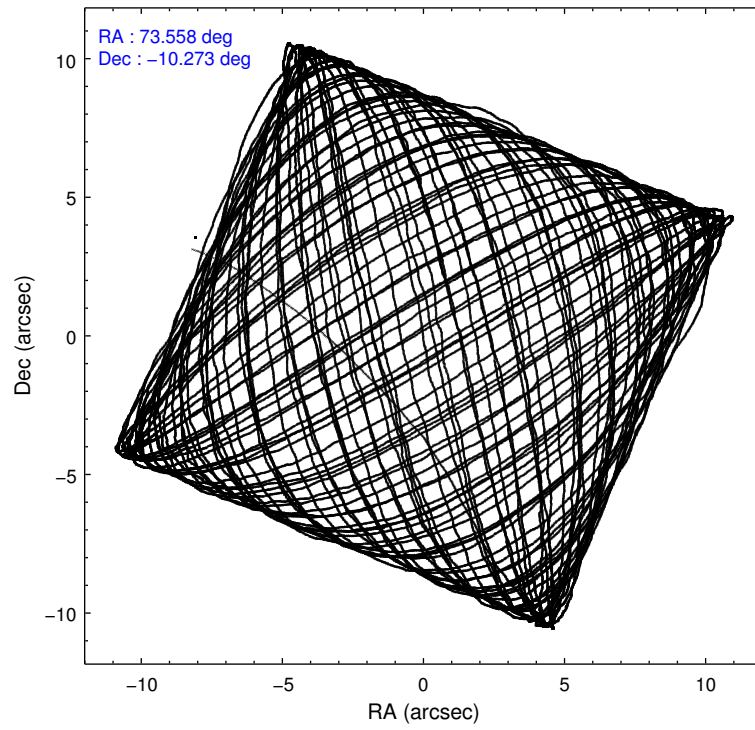
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	310873	308712	331739	348249	356076
rejected events	278079	271228	299744	296397	219556
rejected %	89%	87%	90%	85%	61%

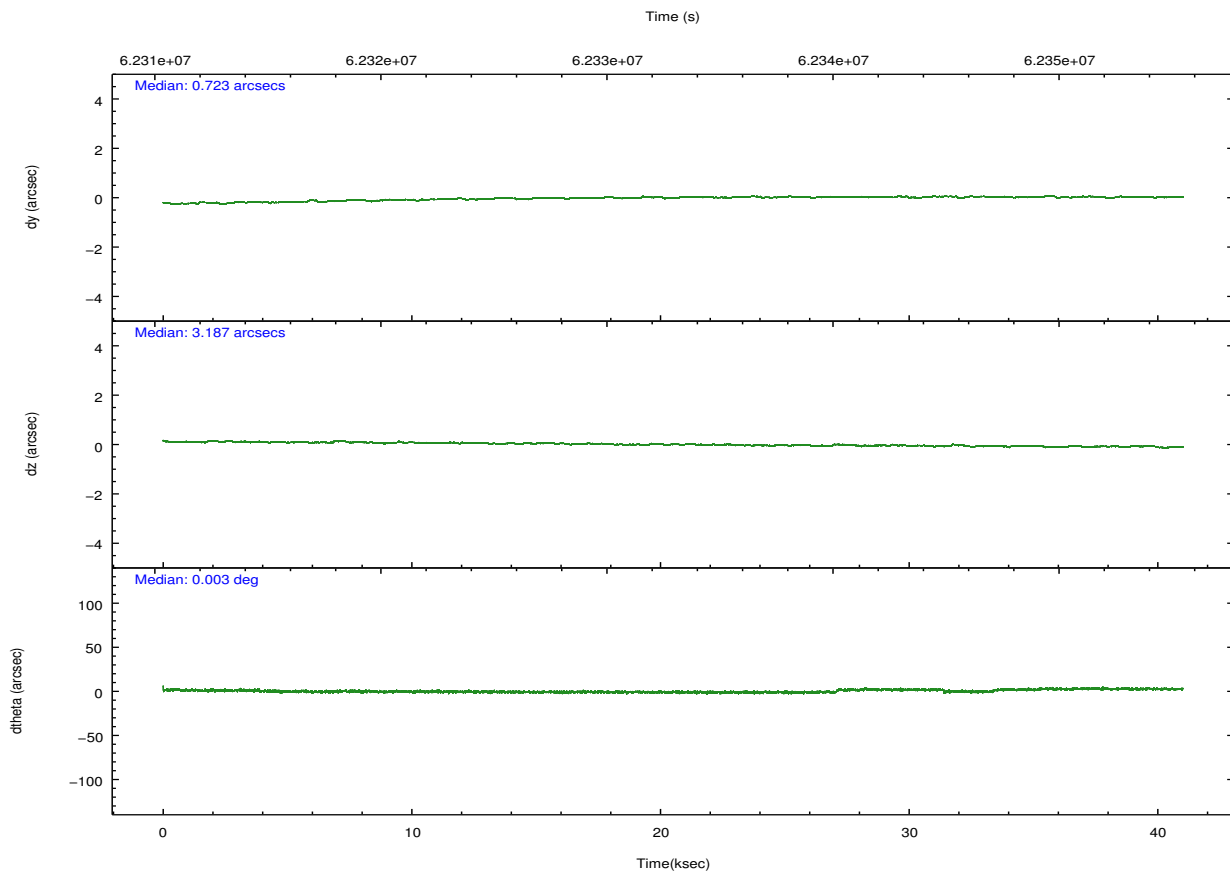
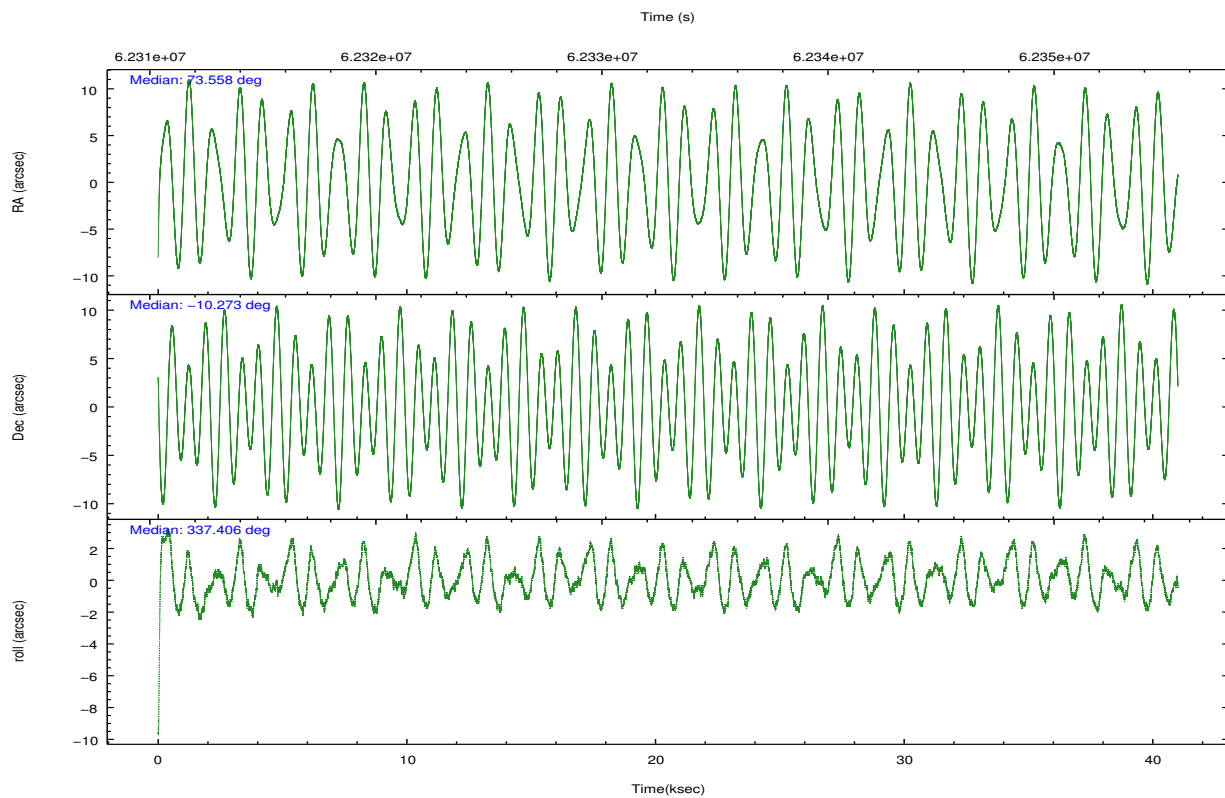
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
grade 0 events	8216	10239	8040	19327	9025
	2%	3%	2%	5%	2%
grade 1 events	92	69	73	79	189
	0%	0%	0%	0%	0%
grade 2 events	12534	13163	12508	19402	29095
	4%	4%	3%	5%	8%
grade 3 events	2429	2884	2053	2318	8076
	0%	0%	0%	0%	2%
grade 4 events	2199	2625	2090	2306	7362
	0%	0%	0%	0%	2%
grade 5 events	6377	6886	5623	6292	21570
	2%	2%	1%	1%	6%
grade 6 events	7420	8578	7308	8505	82977
	2%	2%	2%	2%	23%
grade 7 events	271606	264268	294044	290020	197782
	87%	85%	88%	83%	55%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
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
Pointing RA	73.529886	73.55784372816534	Subarray requested	NONE	NONE
Pointing Dec	-10.275844	-10.27259118946294	Alternating exposures requested	N	N
Pointing Roll	337.199263	337.412931739056	Primary exposure time	0.000000	3.2
Roll angle	343.000000	343.000000			
Roll tolerance	10.000000	10.000000			
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	62312853.184000	62310574.582795			
Observation start date	1999-12-23T05:06:29	1999-12-23T04:29:34			
Observation end time	62352853.184000	62354122.221872			
Observation end date	1999-12-23T16:13:09	1999-12-23T16:35:22			
Read mode	TIMED	TIMED			

2.3 Aspect



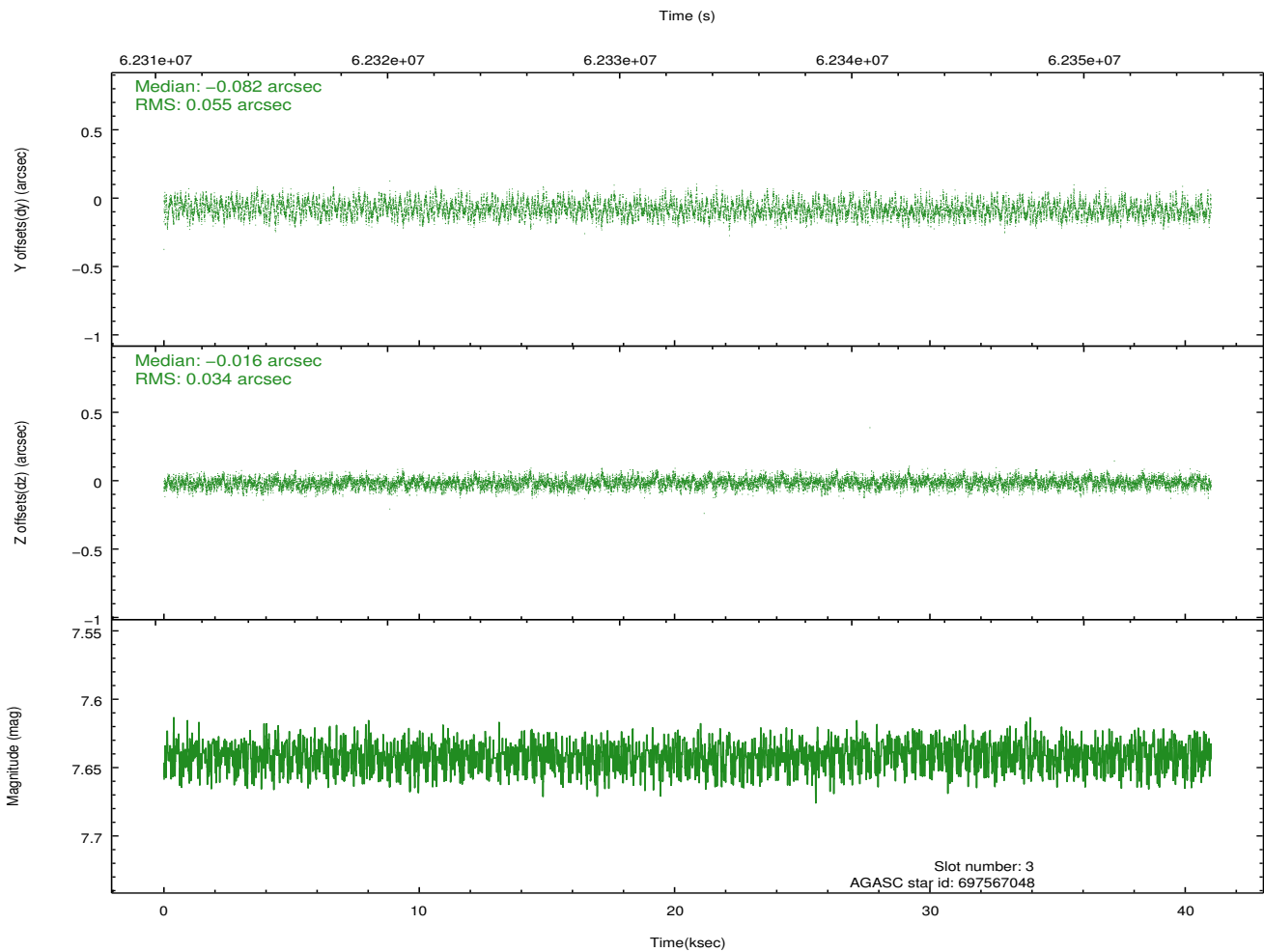
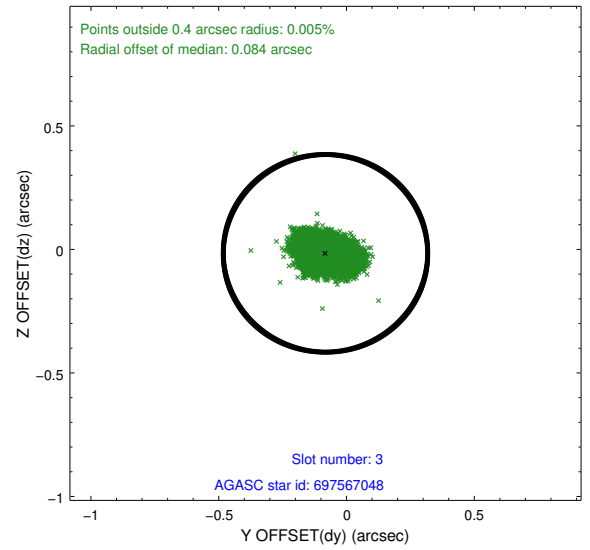
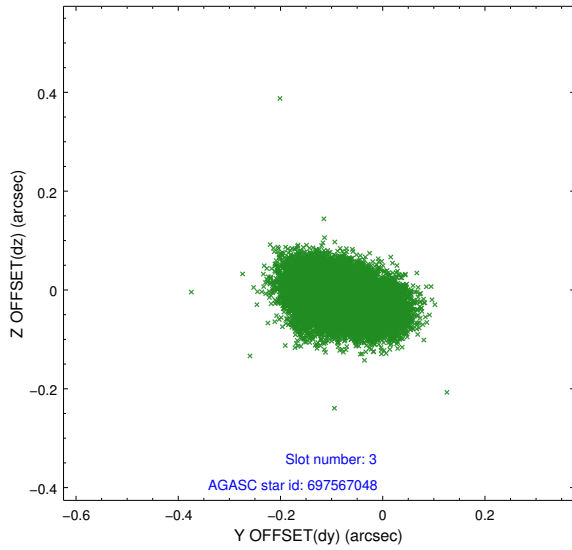


Slot Statistics

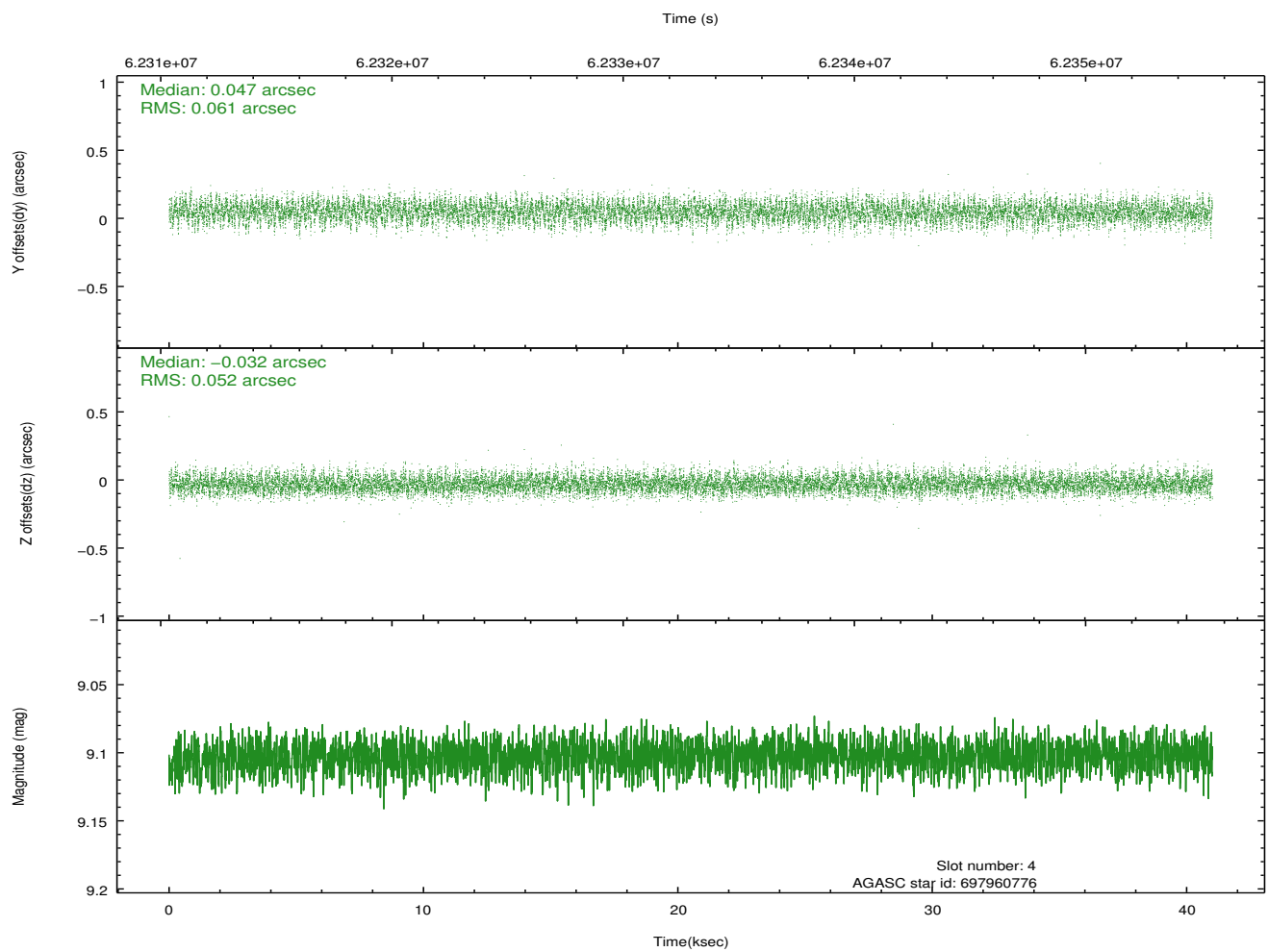
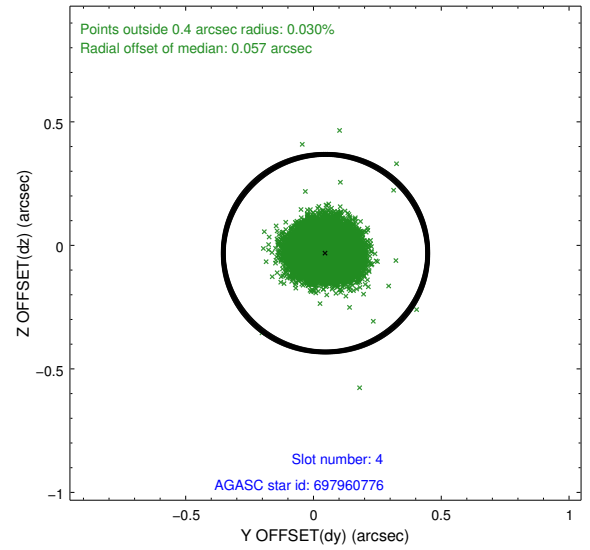
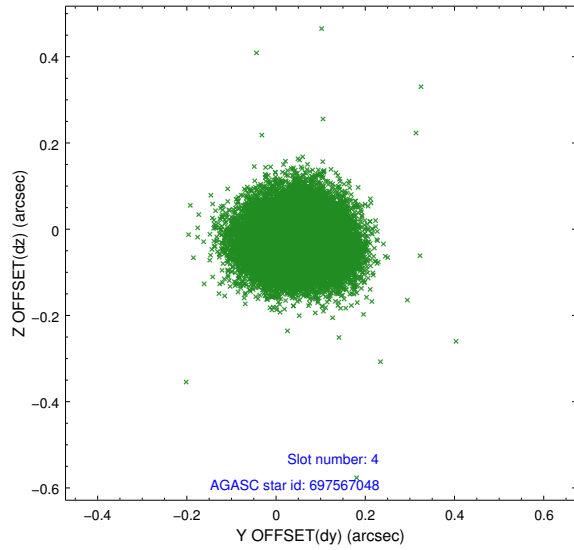
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-2	7.20	20006	-0.005	0.087	0.017	0.026	0.000000	0.000000	-755.09	-832.69
1	FID	ACIS-I-4	7.22	20004	0.049	-0.008	0.014	0.024	0.000000	0.000000	2159.23	1073.15
2	FID	ACIS-I-5	7.24	20006	-0.146	-0.009	0.011	0.017	0.000000	0.000000	-1808.97	1071.29
3	GUIDE	697567048	7.64	20005	-0.082	-0.016	0.069	0.112	73.270537	-9.556392	-1852.23	2030.18
4	GUIDE	697960776	9.10	20002	0.047	-0.032	0.086	0.136	73.893125	-10.882953	2031.77	-1517.68
5	GUIDE	697964824	9.52	19988	0.081	-0.010	0.083	0.135	73.629674	-10.720613	946.77	-1339.41
6	GUIDE	697959864	9.54	19988	-0.036	0.113	0.087	0.143	72.881269	-10.418949	-1915.86	-1367.38
7	GUIDE	697698168	9.77	19990	-0.004	-0.058	0.119	0.191	74.083001	-9.781622	1120.25	2398.99

2.4 Star Slots

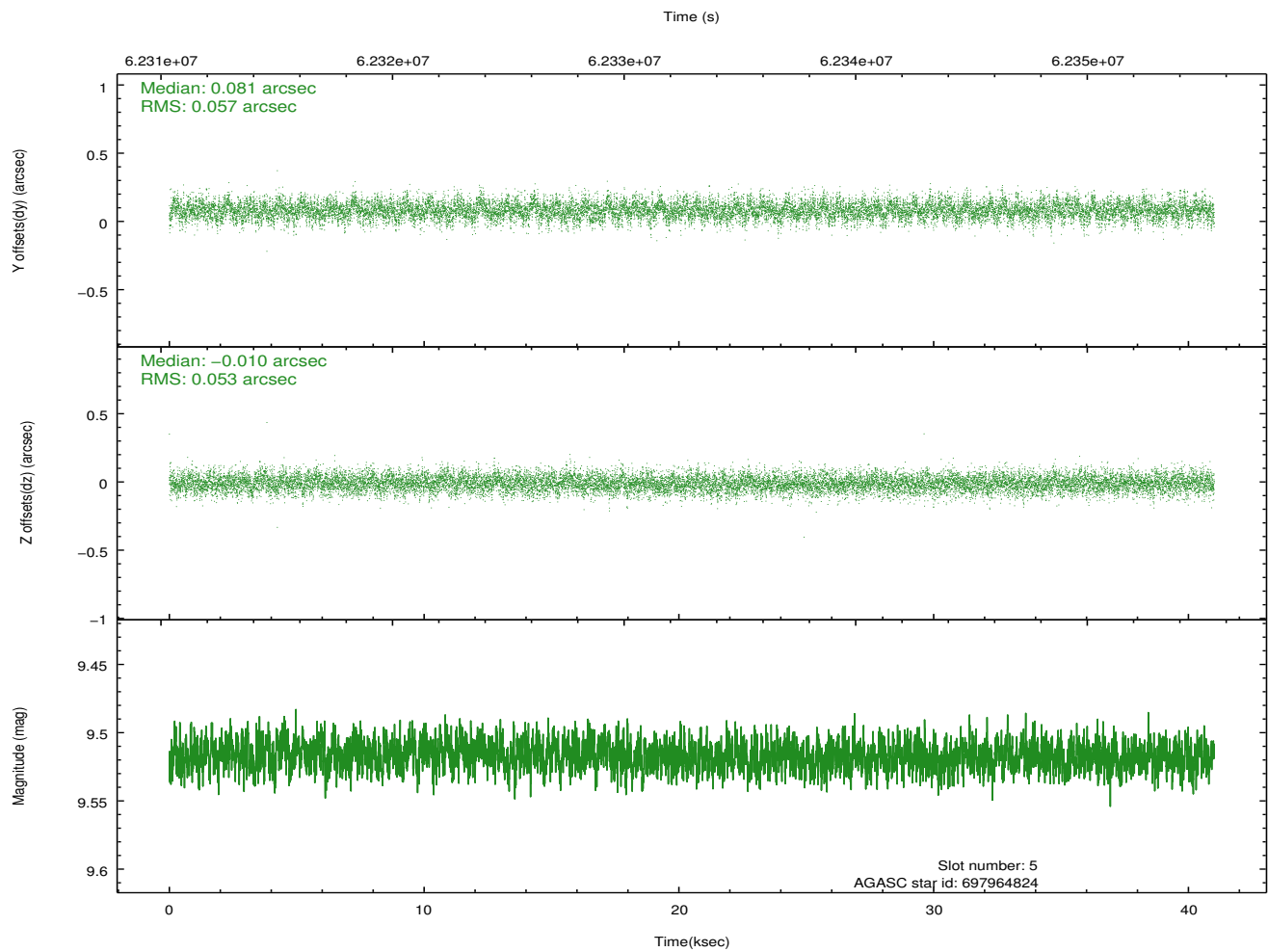
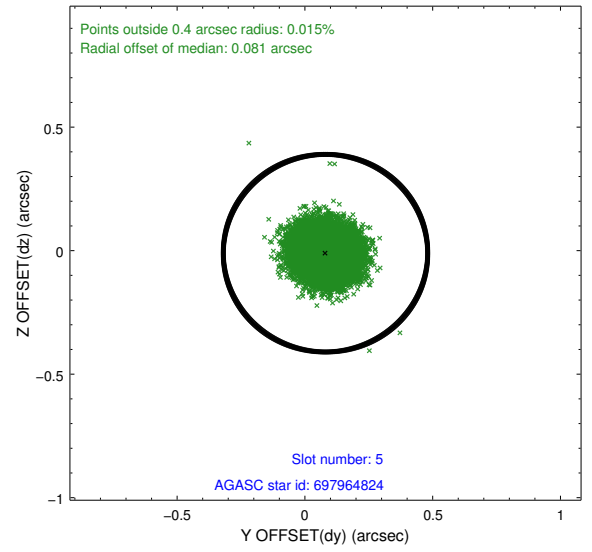
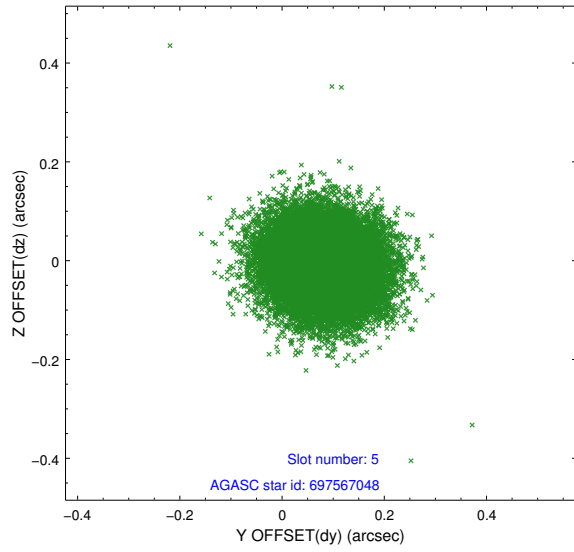
2.4.1 Slot 3



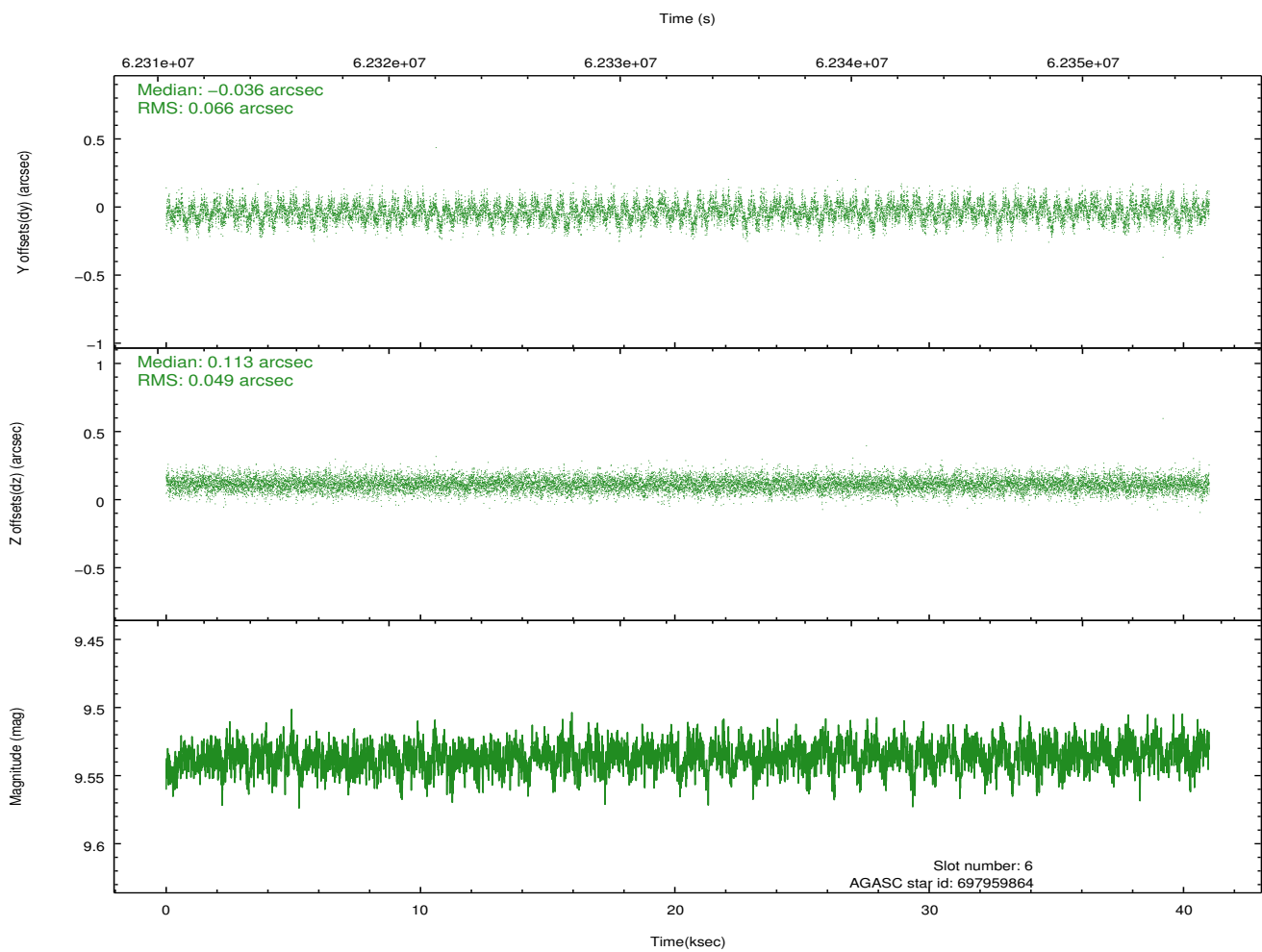
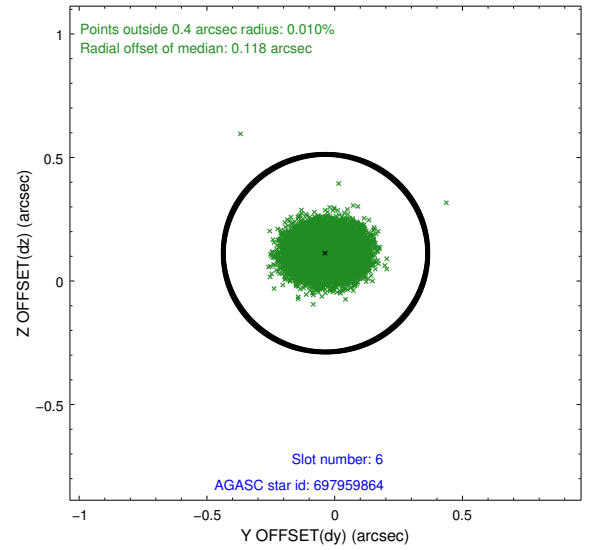
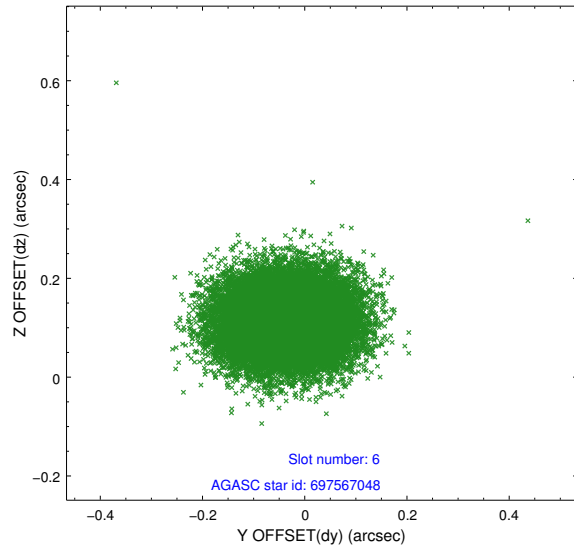
2.4.2 Slot 4



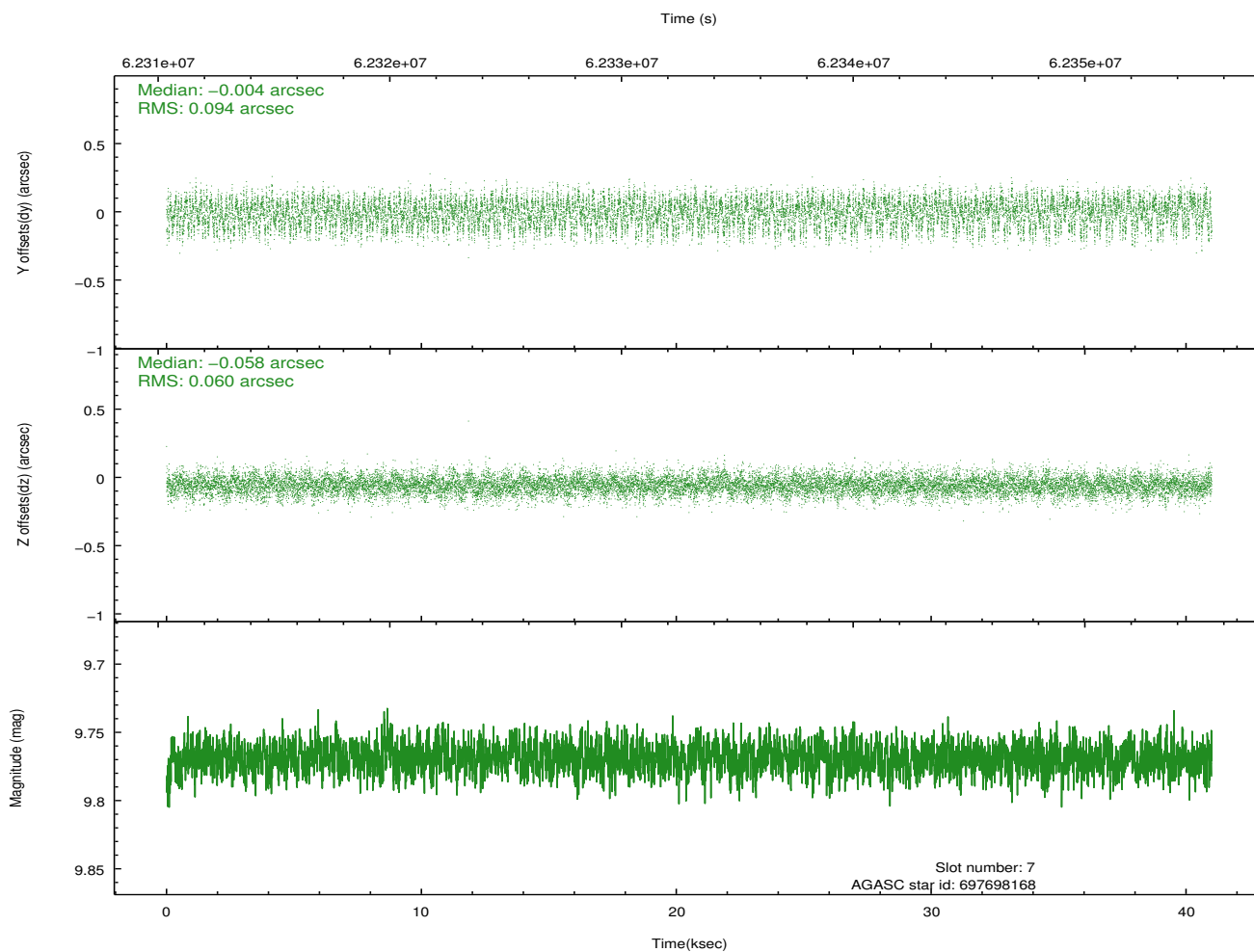
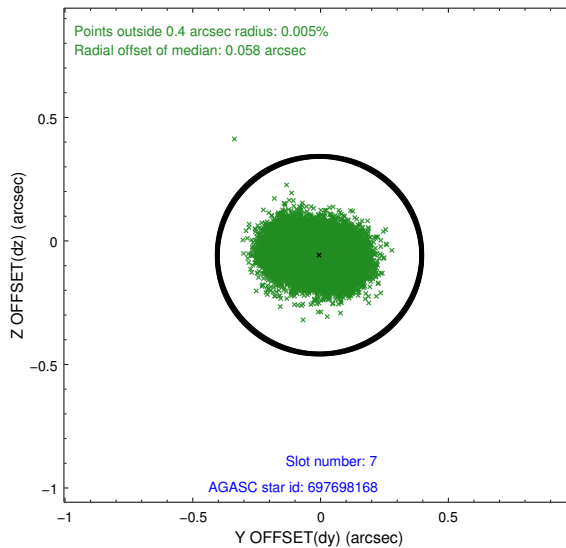
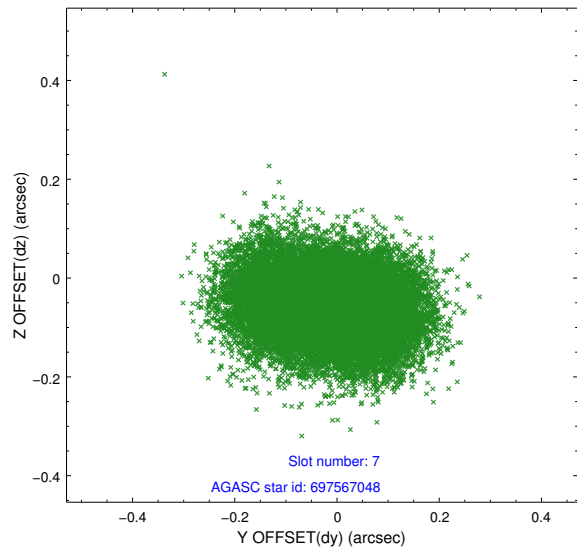
2.4.3 Slot 5



2.4.4 Slot 6

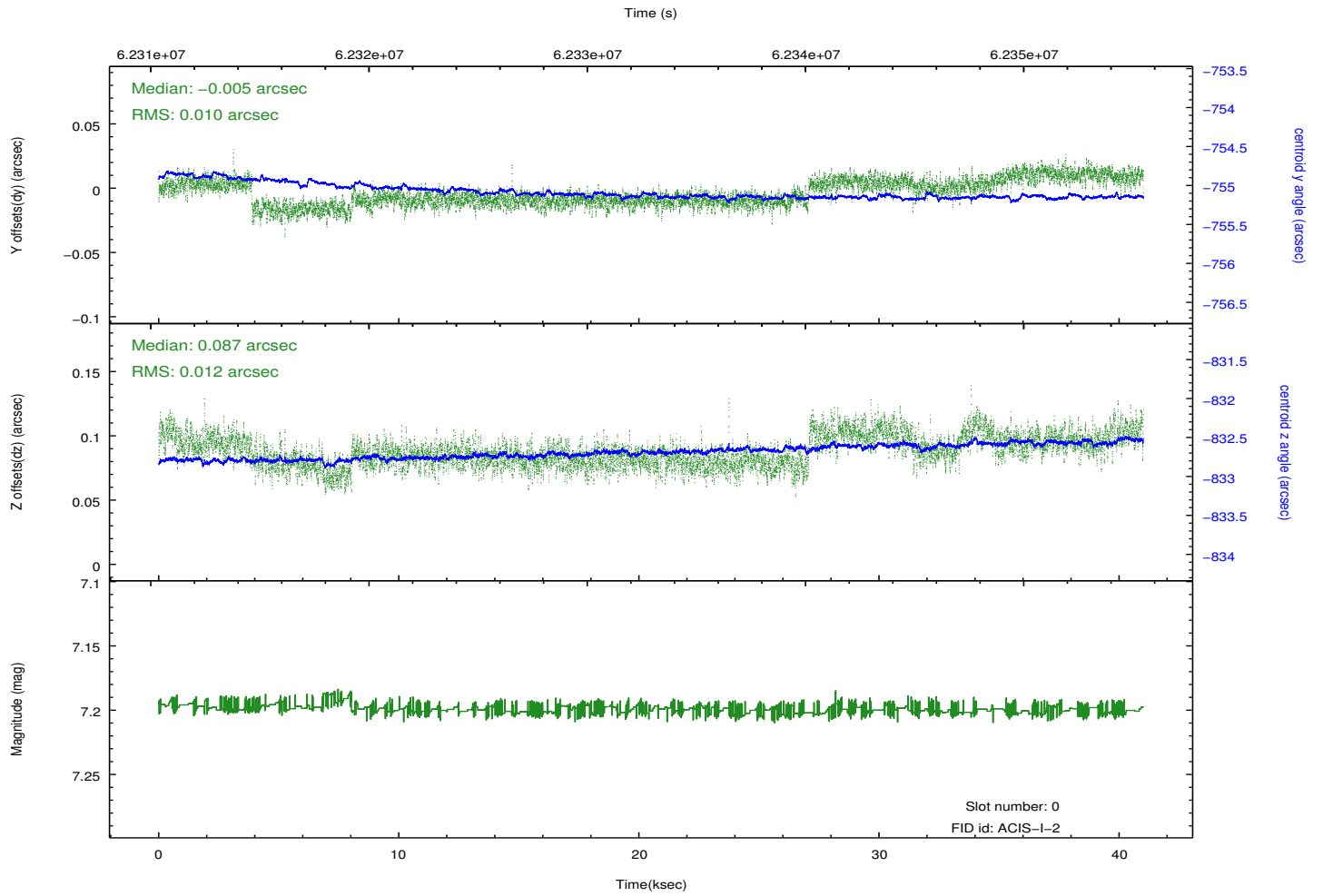
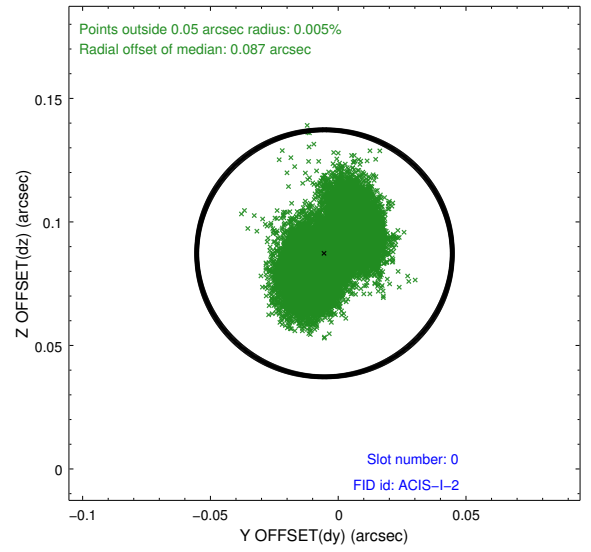
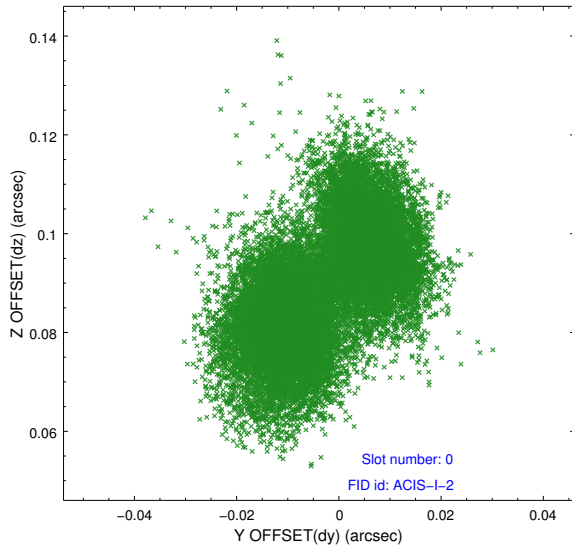


2.4.5 Slot 7

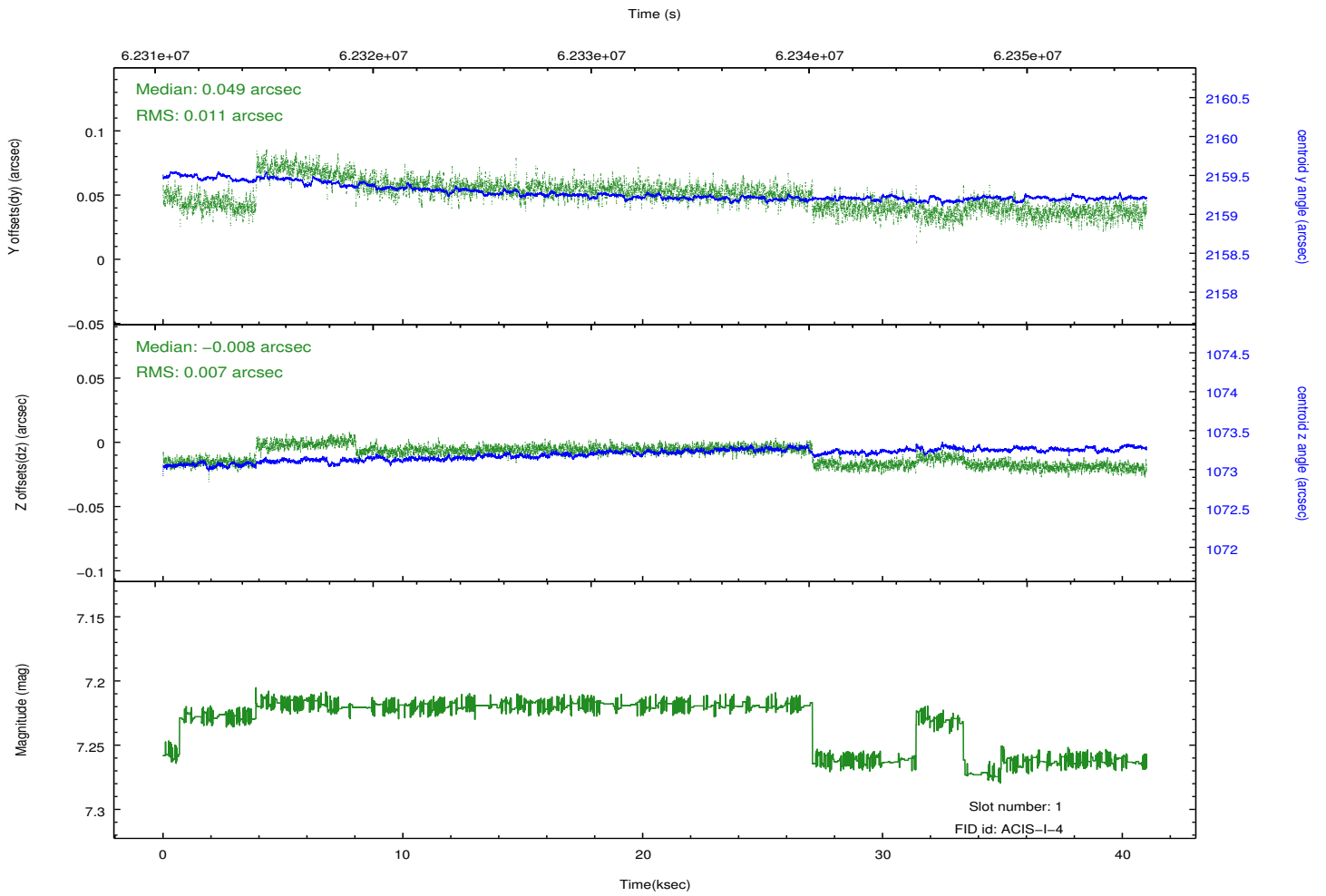
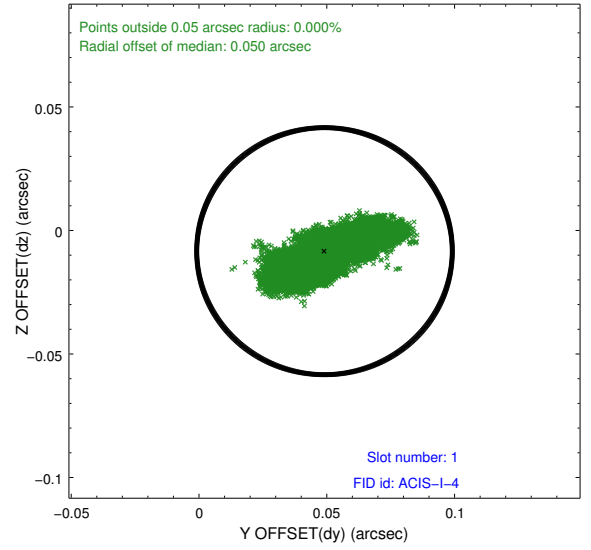
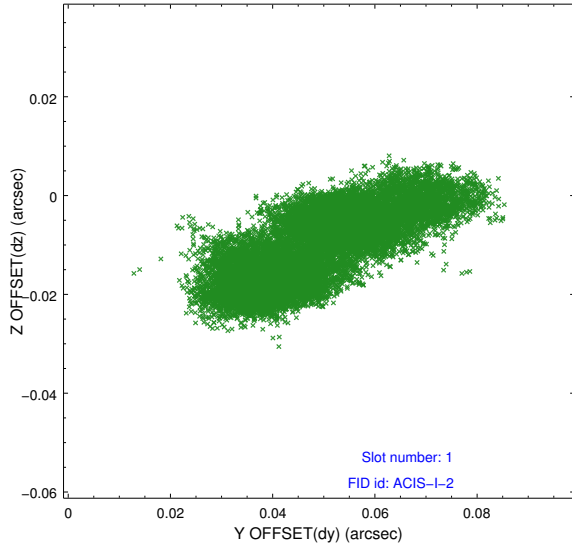


2.5 FID Slots

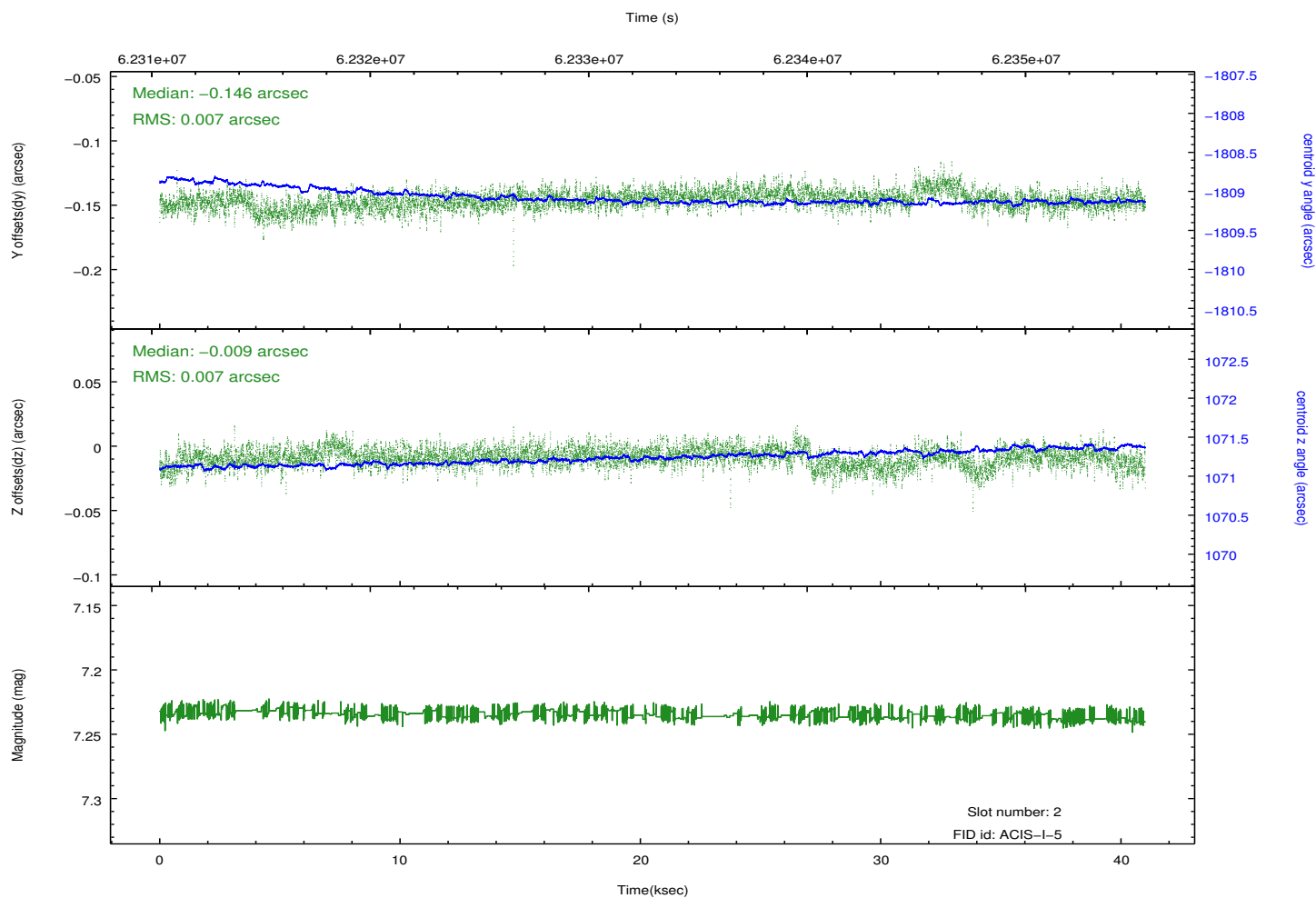
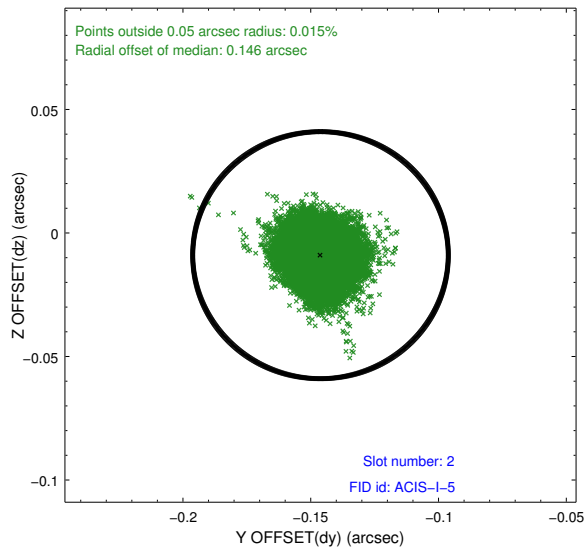
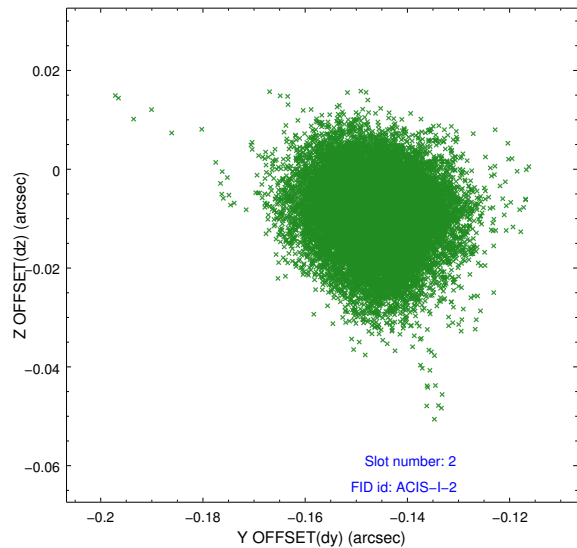
2.5.1 Slot 0



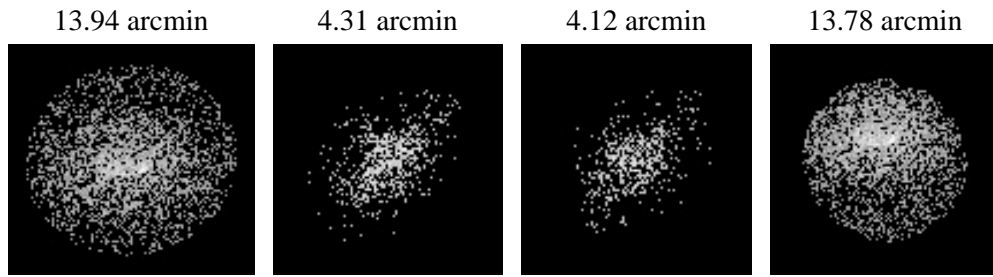
2.5.2 Slot 1



2.5.3 Slot 2



3 Point Sources



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2009.11.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	39.126

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 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.

=====

This reprocessing of the data applies no CTI correction because none is available for that temperature.

=====

Roll constraint met.