

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 20389 - L2 Version 1
Chandra X-Ray Center

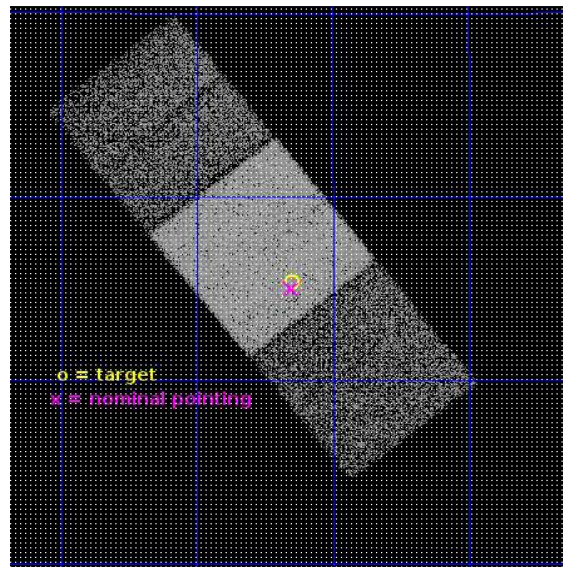
L2 Processing Date : Oct 1 2017

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1 Front

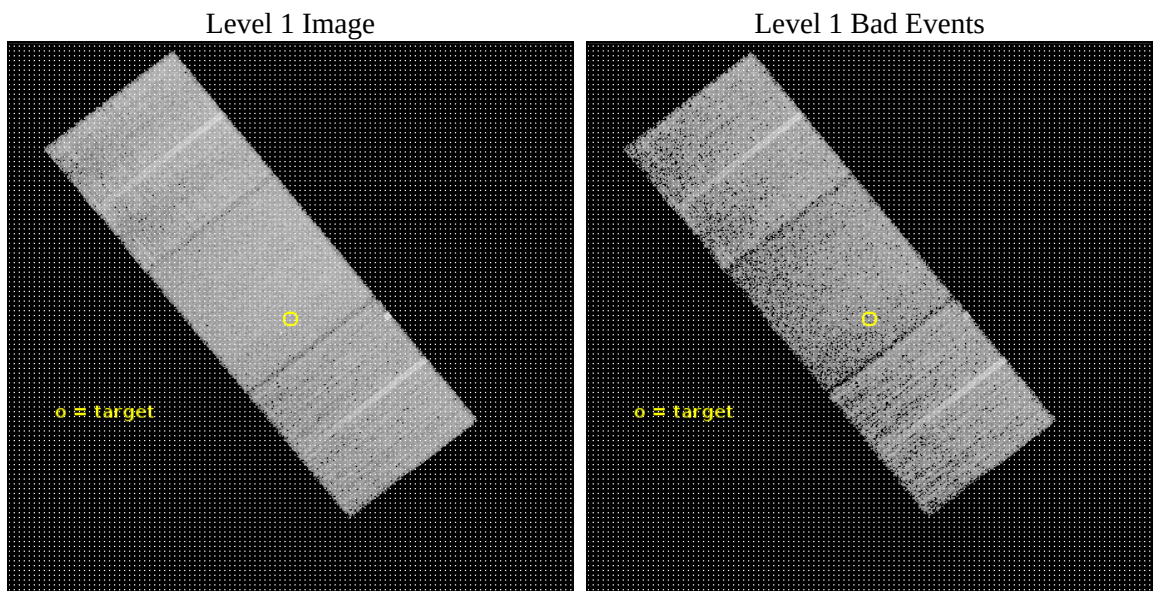
seq_num	703494	Sequence number
obs_id	20389	Observation id
title	A Reliable X-ray View of the First Quasars	Proposal title
observer	William Brandt	Principal investigator
object	SDSS J2310+1855	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	347.662083	Observer's specified target RA [deg]
dec_targ	18.922139	Observer's specified target Dec [deg]
ra_nom	347.66313755532	Nominal RA [deg]
dec_nom	18.916371972916	Nominal Dec [deg]
roll_nom	231.58881669145	Nominal Roll [deg]
revision	1	Processing version of data
ontime	18110.200139403	Sum of GTIs [s]
livetime	17873.577042047	Livetime [s]
ontime6	18110.200139403	Sum of GTIs [s]
ontime7	18110.200139403	Sum of GTIs [s]
ontime8	18110.200139403	Sum of GTIs [s]
l2events	87132	Number of level 2 events



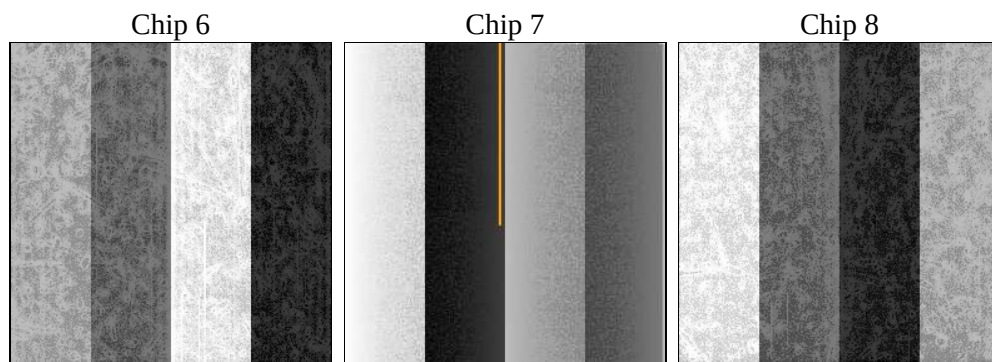
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	18000.000000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	18110.200139403	Sum of GTIs [s]
caldbver	4.7.6	 	ontime6	18110.200139403	Sum of GTIs [s]
date	2017-10-01T03:43:12	Date and time of file creation	ontime7	18110.200139403	Sum of GTIs [s]
revision	1	Processing version of data	ontime8	18110.200139403	Sum of GTIs [s]
			l1events	423359	Number of level 1 events

2.1.4 Events

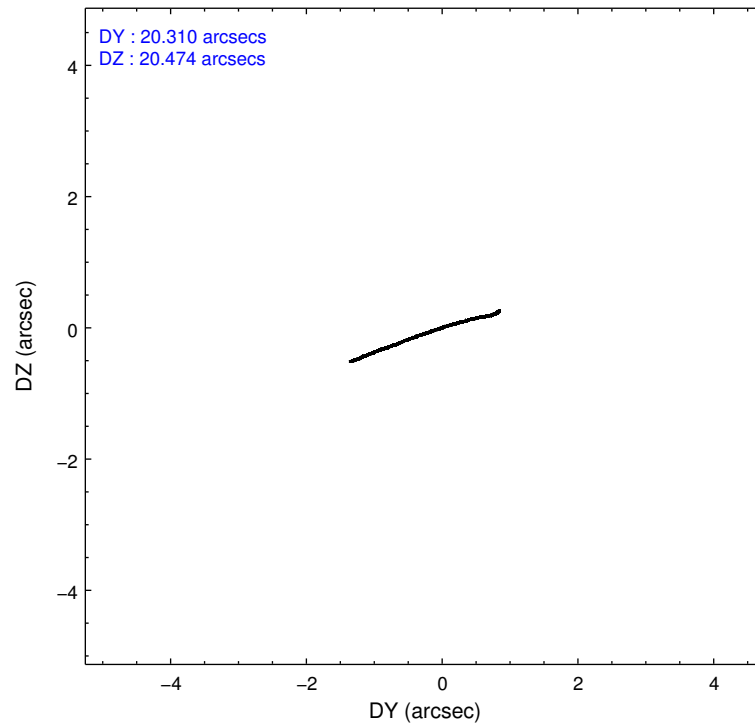
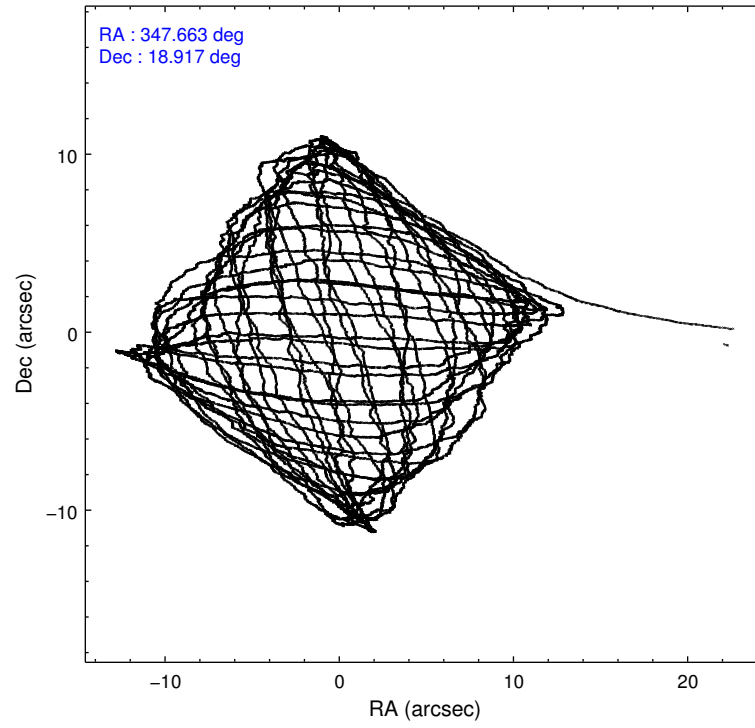
	ccd 6	ccd 7	ccd 8
level 1 events	119342	151486	152531
rejected events	105770	86325	114553
rejected %	88%	56%	75%

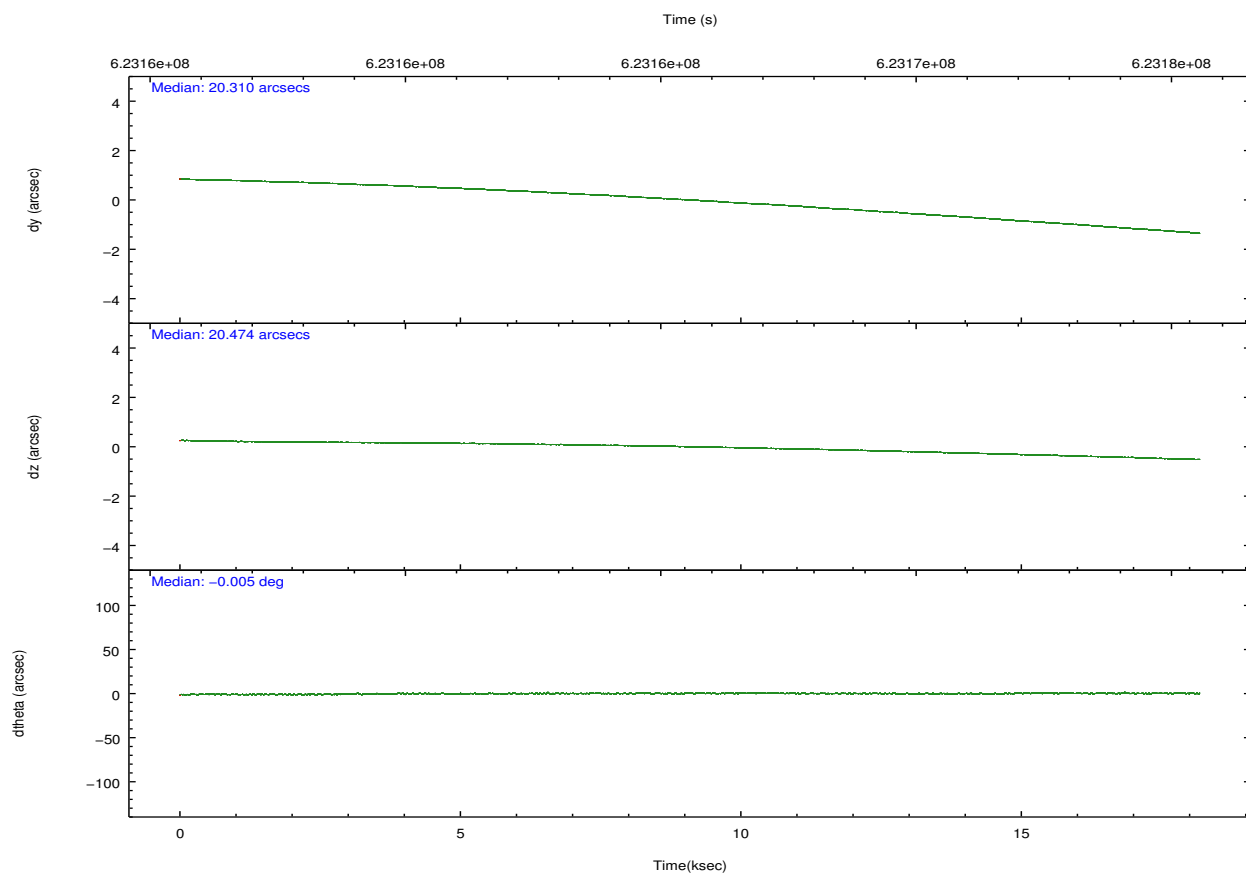
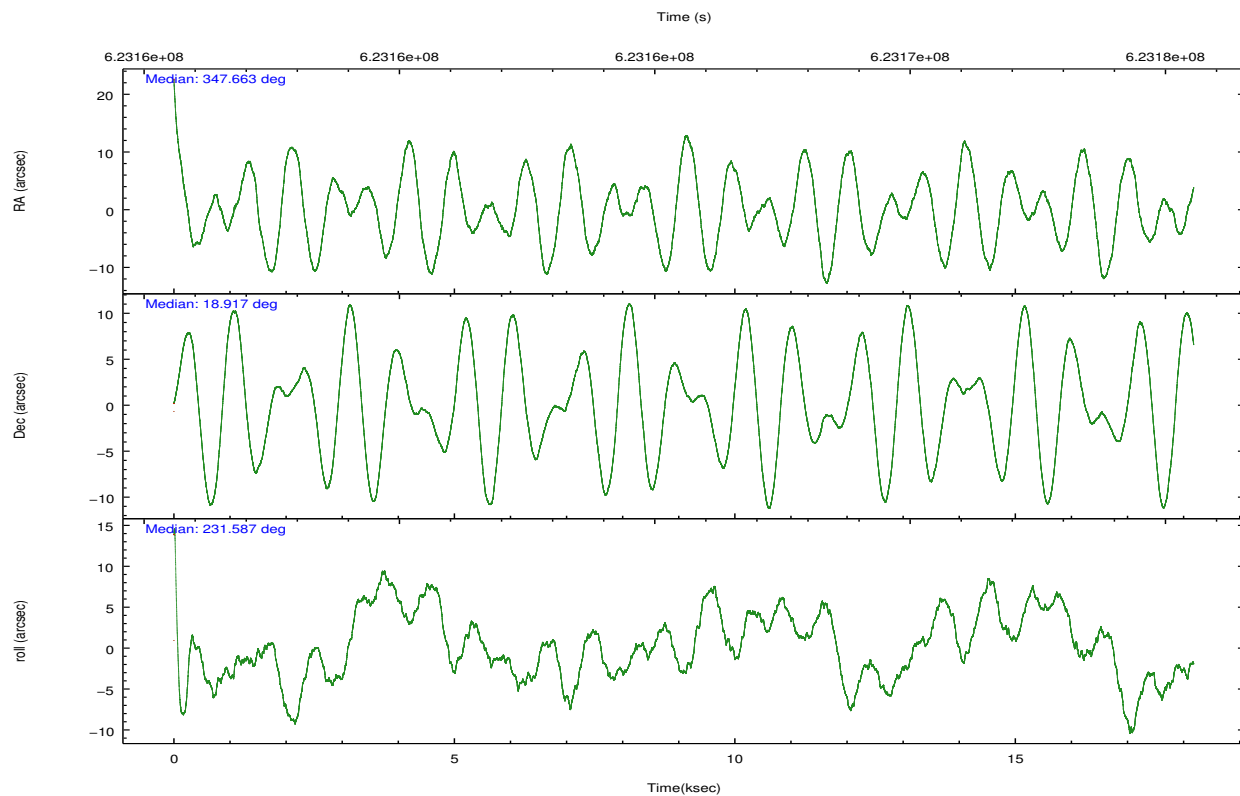
	ccd 6	ccd 7	ccd 8
grade 0 events	3881	5474	9939
	3%	3%	6%
grade 1 events	187	204	122
	0%	0%	0%
grade 2 events	3816	13476	9745
	3%	8%	6%
grade 3 events	1218	5215	3837
	1%	3%	2%
grade 4 events	1179	5063	3539
	0%	3%	2%
grade 5 events	5218	14904	8192
	4%	9%	5%
grade 6 events	3479	35944	10939
	2%	23%	7%
grade 7 events	100364	71206	106218
	84%	47%	69%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-678	ACIS-678	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	347.666990	347.6631375553153	Subarray requested	NONE	NONE
[deg] Pointing Dec	18.943549	18.91637197291642	Alternating exposures requested	N	N
[deg] Pointing Roll	231.430923	231.5888166914466	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	623156671.184000	623155729.38289			
Observation start date	2017-09-30T11:03:22	2017-09-30T10:48:49			
[s] Observation end time (MET)	623174671.184000	623175190.54653			
Observation end date	2017-09-30T16:03:22	2017-09-30T16:13:10			
Read mode	TIMED	TIMED			

2.3 Aspect



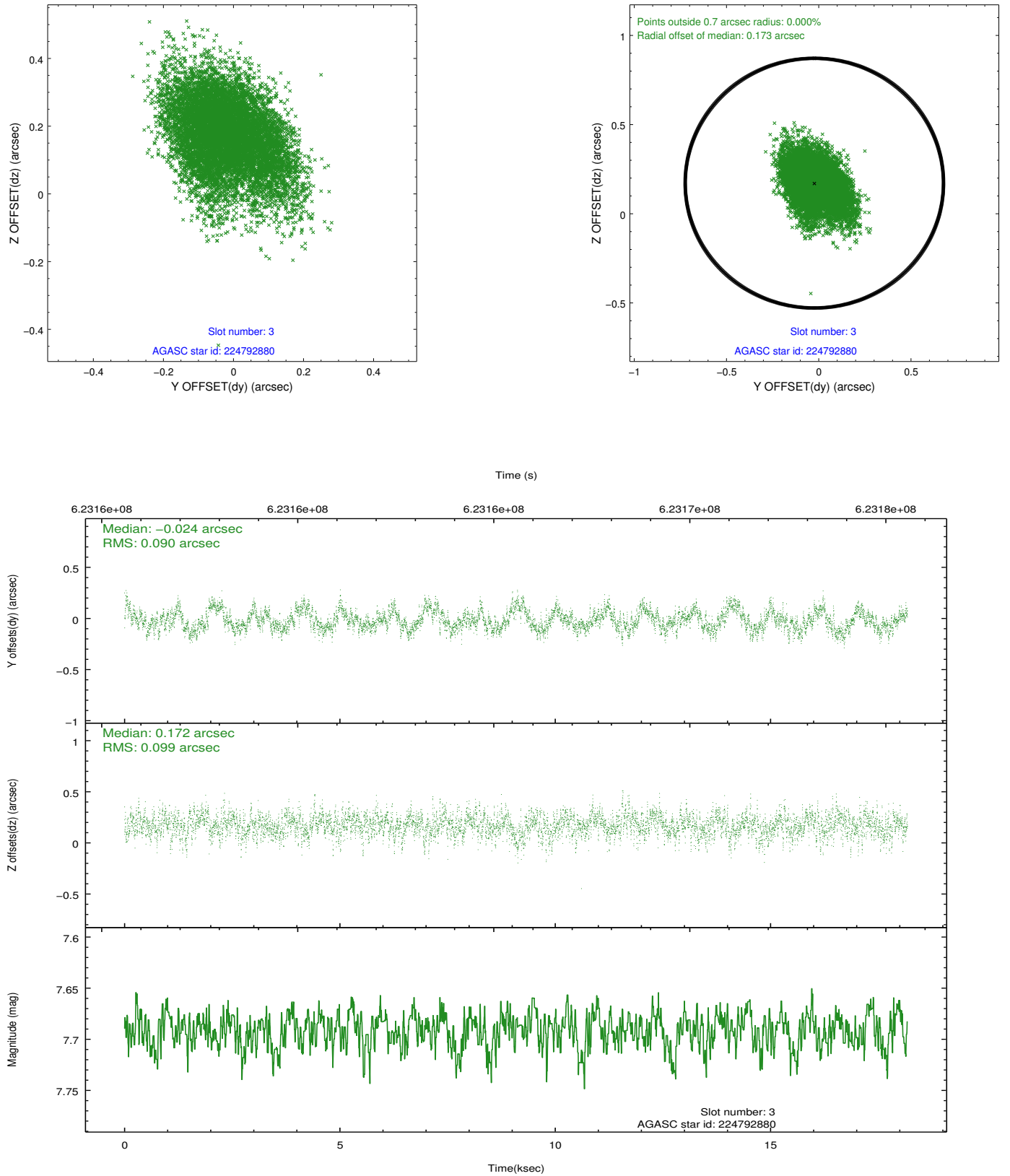


Slot Statistics

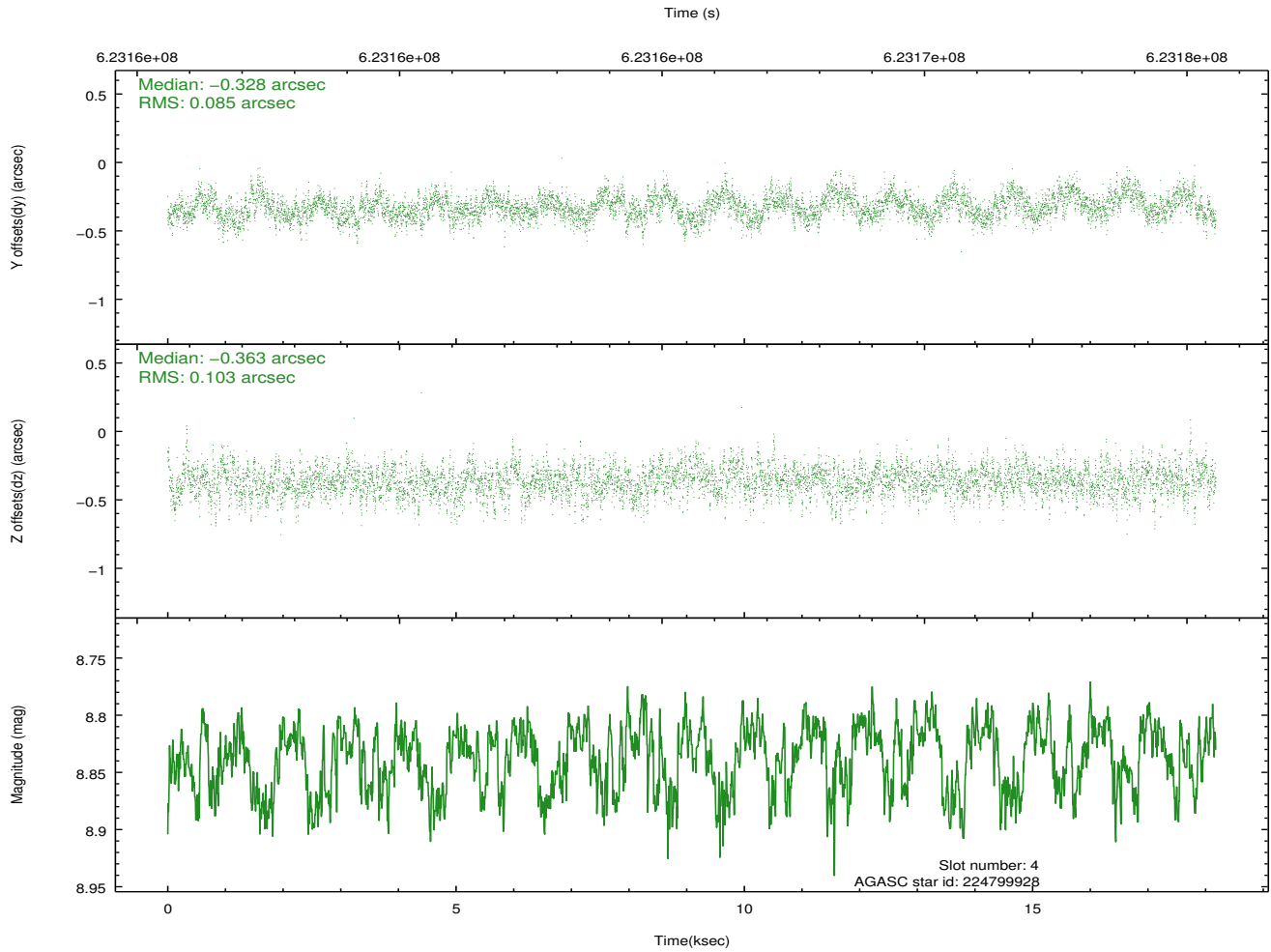
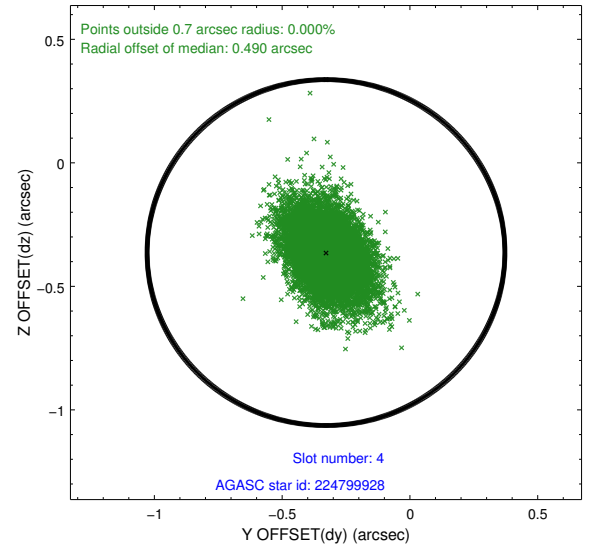
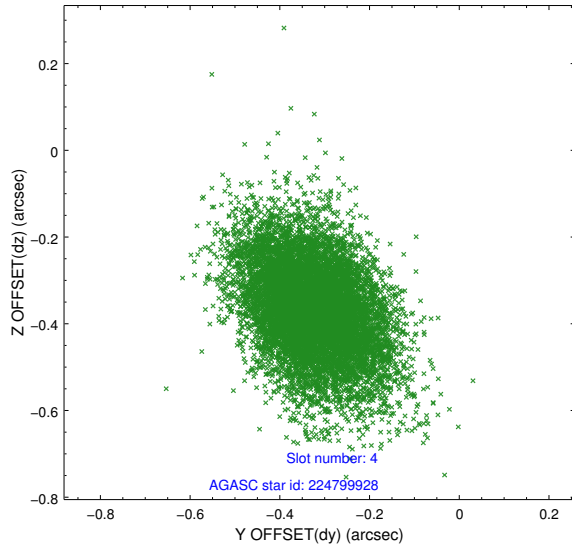
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.11	4435	-0.270	-0.125	0.014	0.020	0.000000	0.000000	-773.57	-1742.04
1	FID		ACIS-S-4	7.23	4435	0.560	0.164	0.021	0.030	0.000000	0.000000	2140.40	166.56
2	FID		ACIS-S-5	7.22	4435	-0.315	-0.030	0.015	0.037	0.000000	0.000000	-1826.22	160.21
3	GUIDE	used	224792880	7.69	8867	-0.024	0.172	0.141	0.237	347.685749	19.322773	-1106.56	-800.89
4	GUIDE	used	224799928	8.83	8861	-0.328	-0.363	0.138	0.236	347.550045	18.534528	1400.28	605.71
5	GUIDE	used	224804016	8.62	8866	-0.191	-0.220	0.154	0.245	347.681222	18.909055	72.22	114.67
6	GUIDE	used	224805016	8.26	8861	0.453	0.389	0.117	0.211	347.417549	19.591708	-1296.31	-2115.97
7	GUIDE	used	224800872	8.91	8858	0.083	0.029	0.165	0.267	347.280974	18.410181	2322.70	165.51

2.4 Star Slots

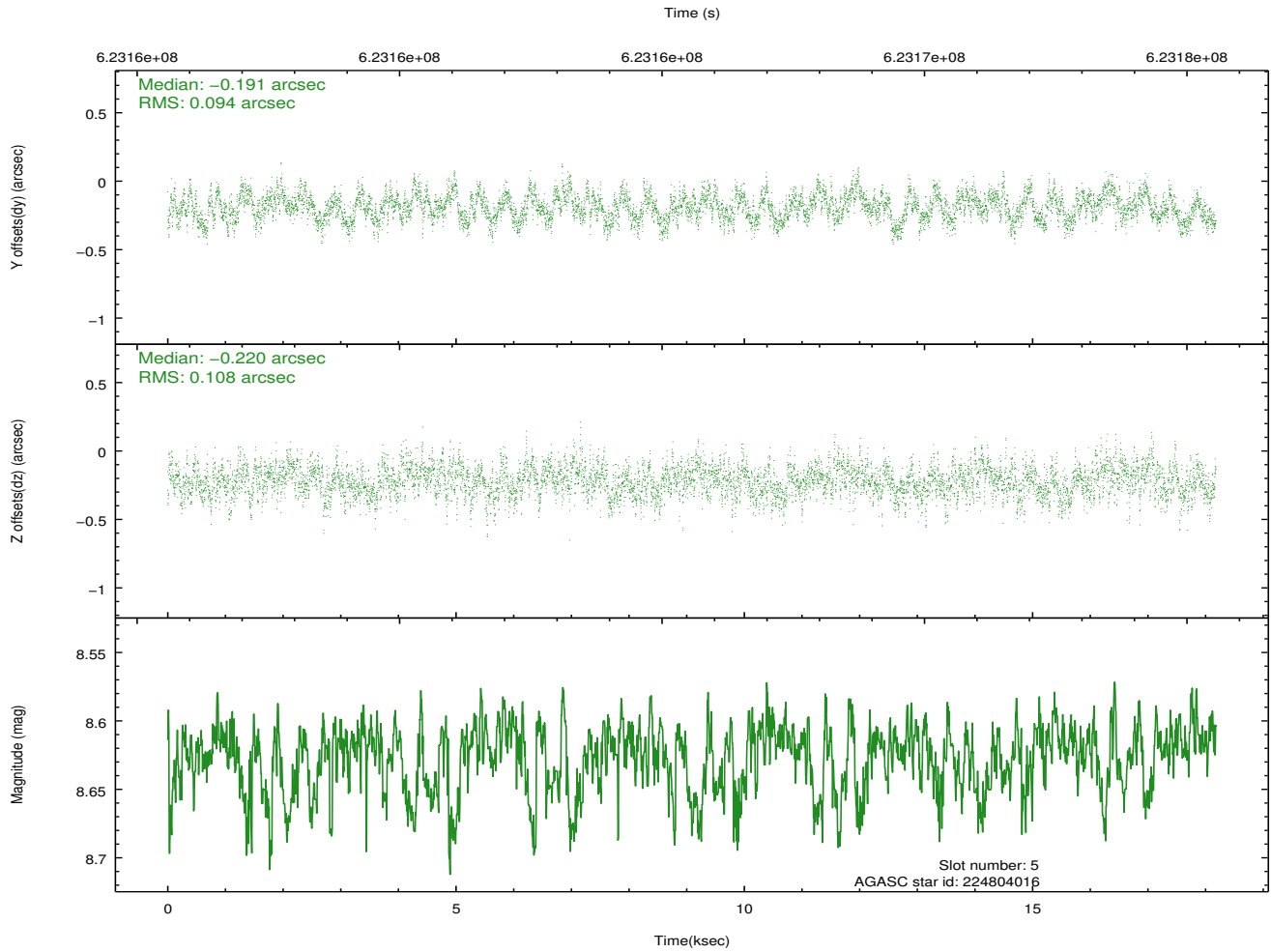
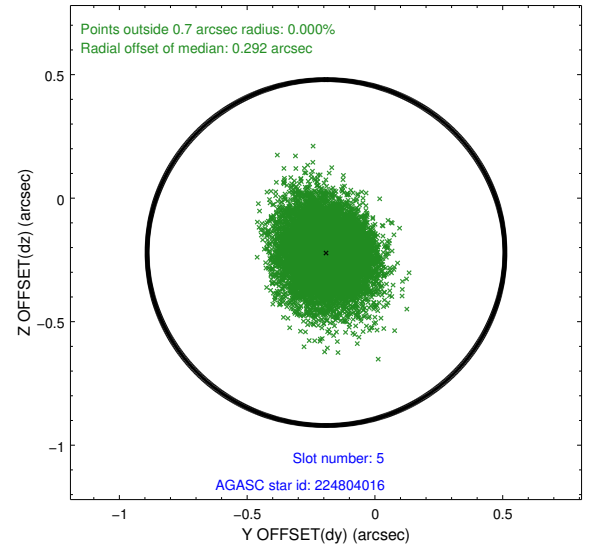
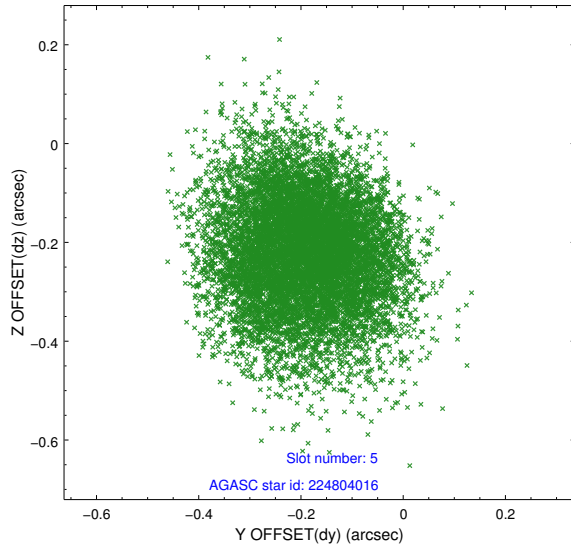
2.4.1 Slot 3



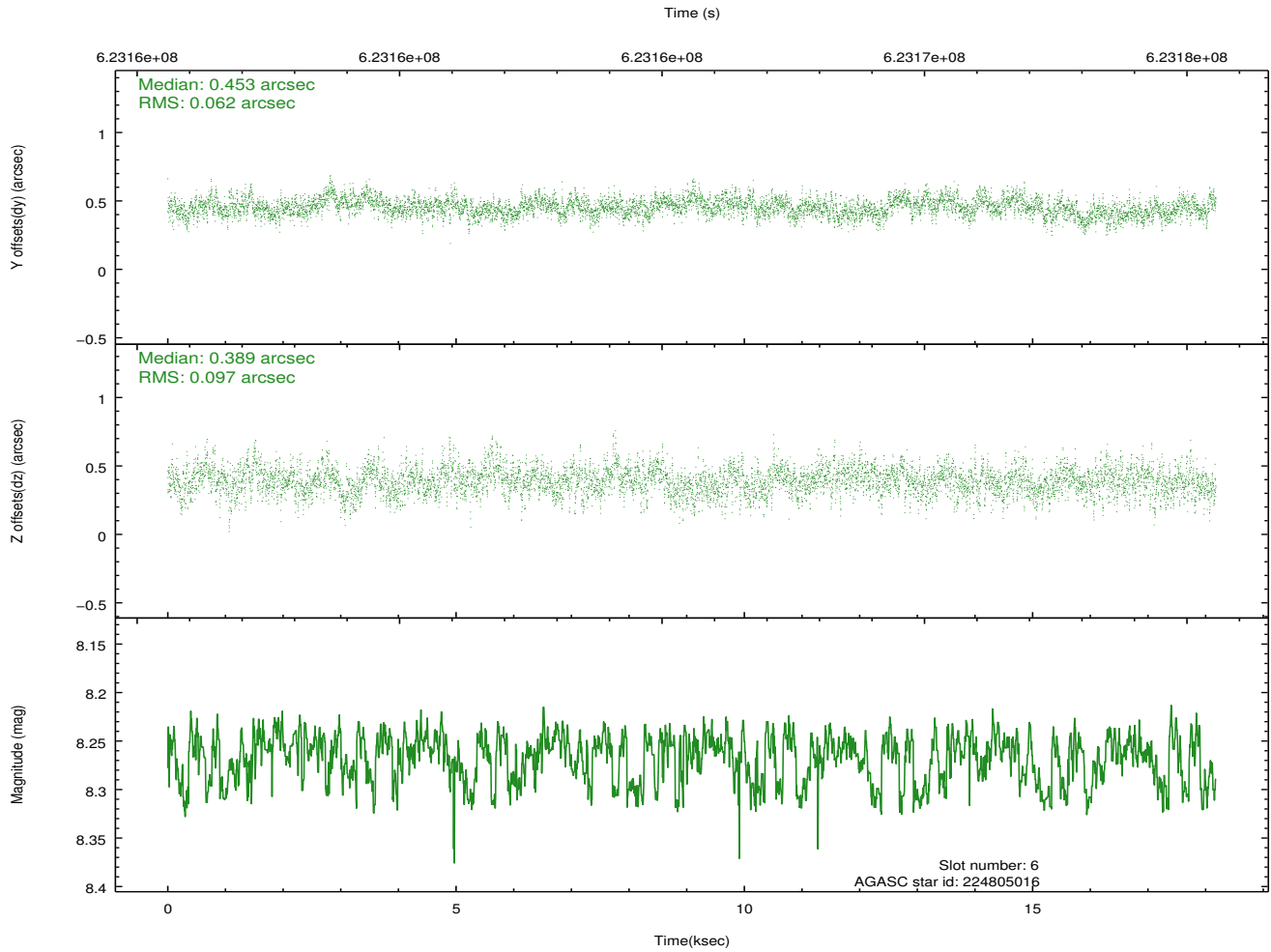
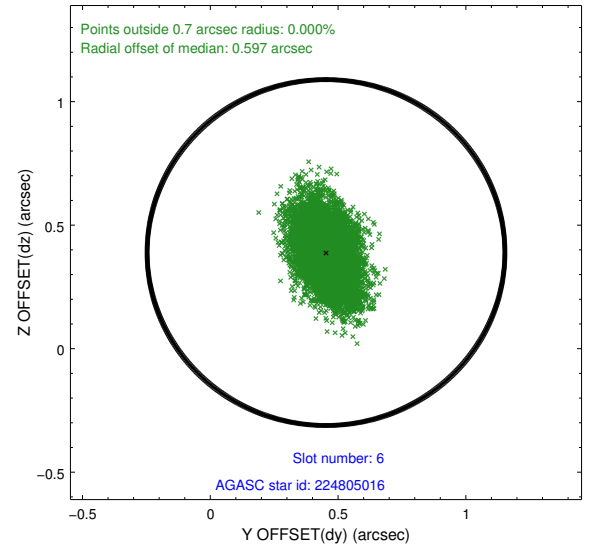
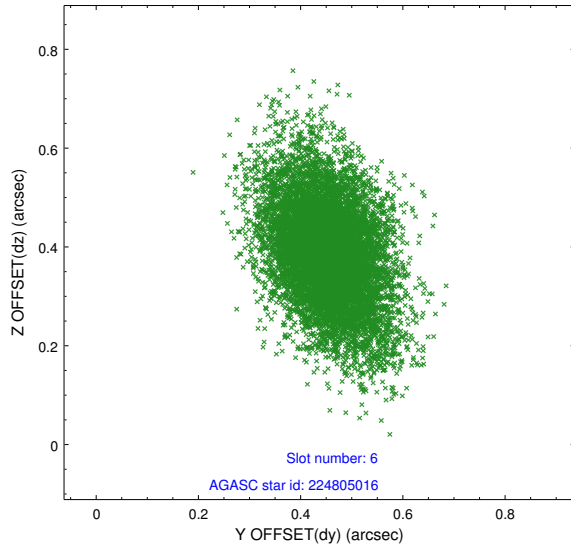
2.4.2 Slot 4



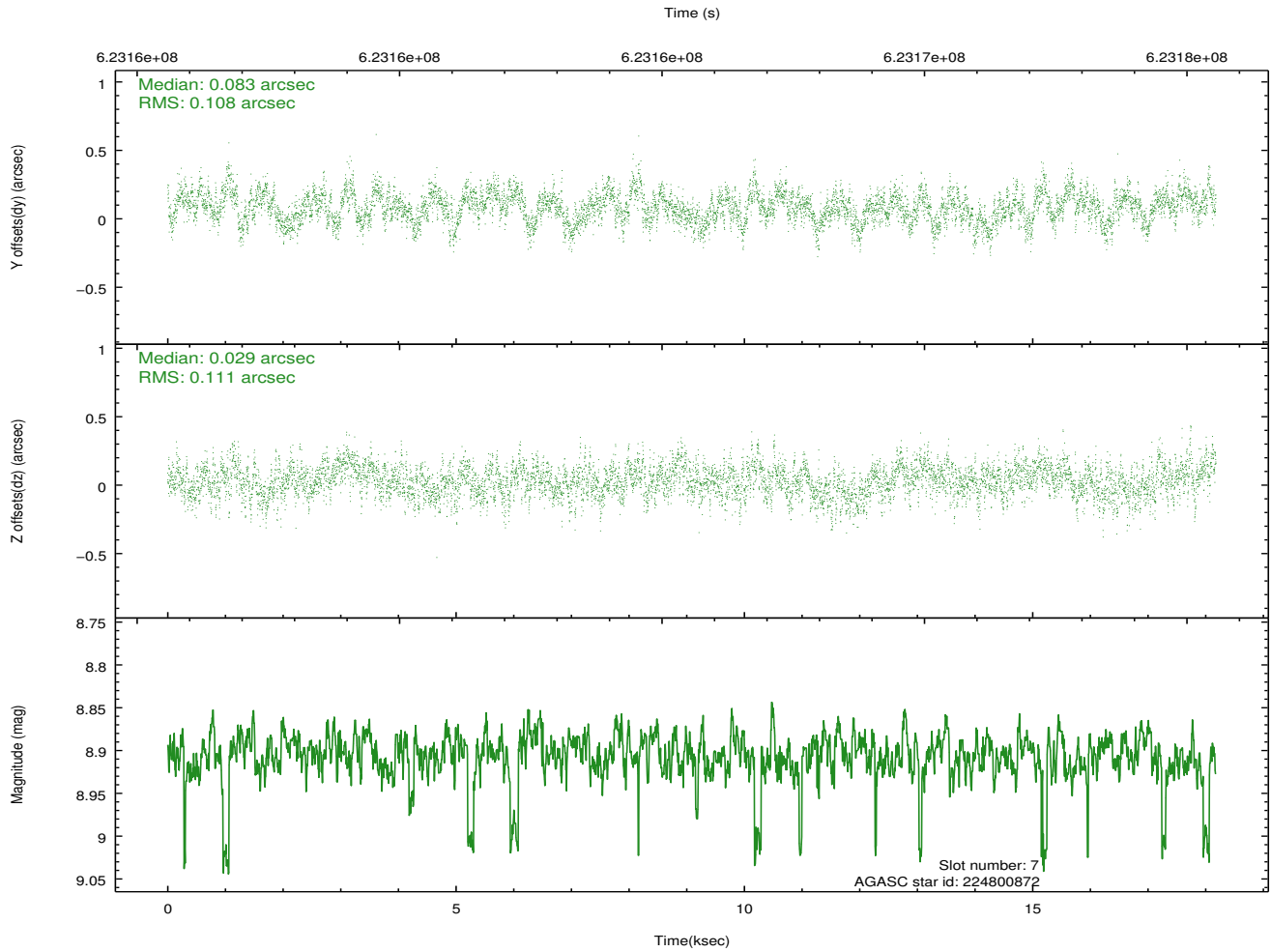
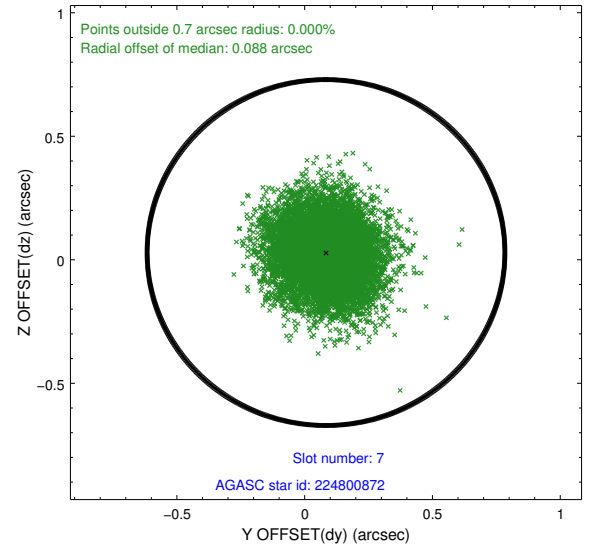
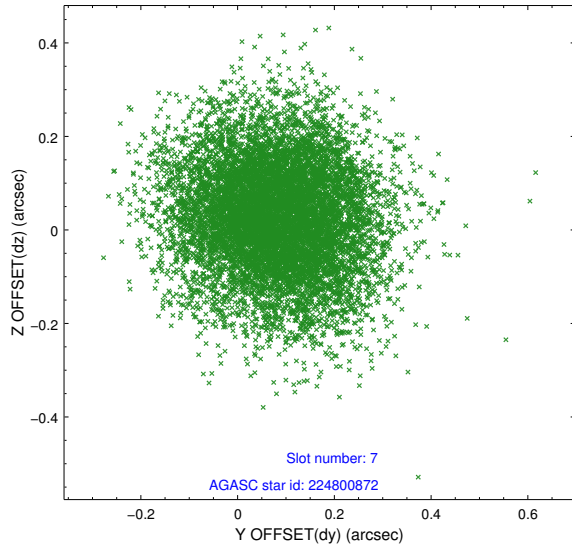
2.4.3 Slot 5



2.4.4 Slot 6

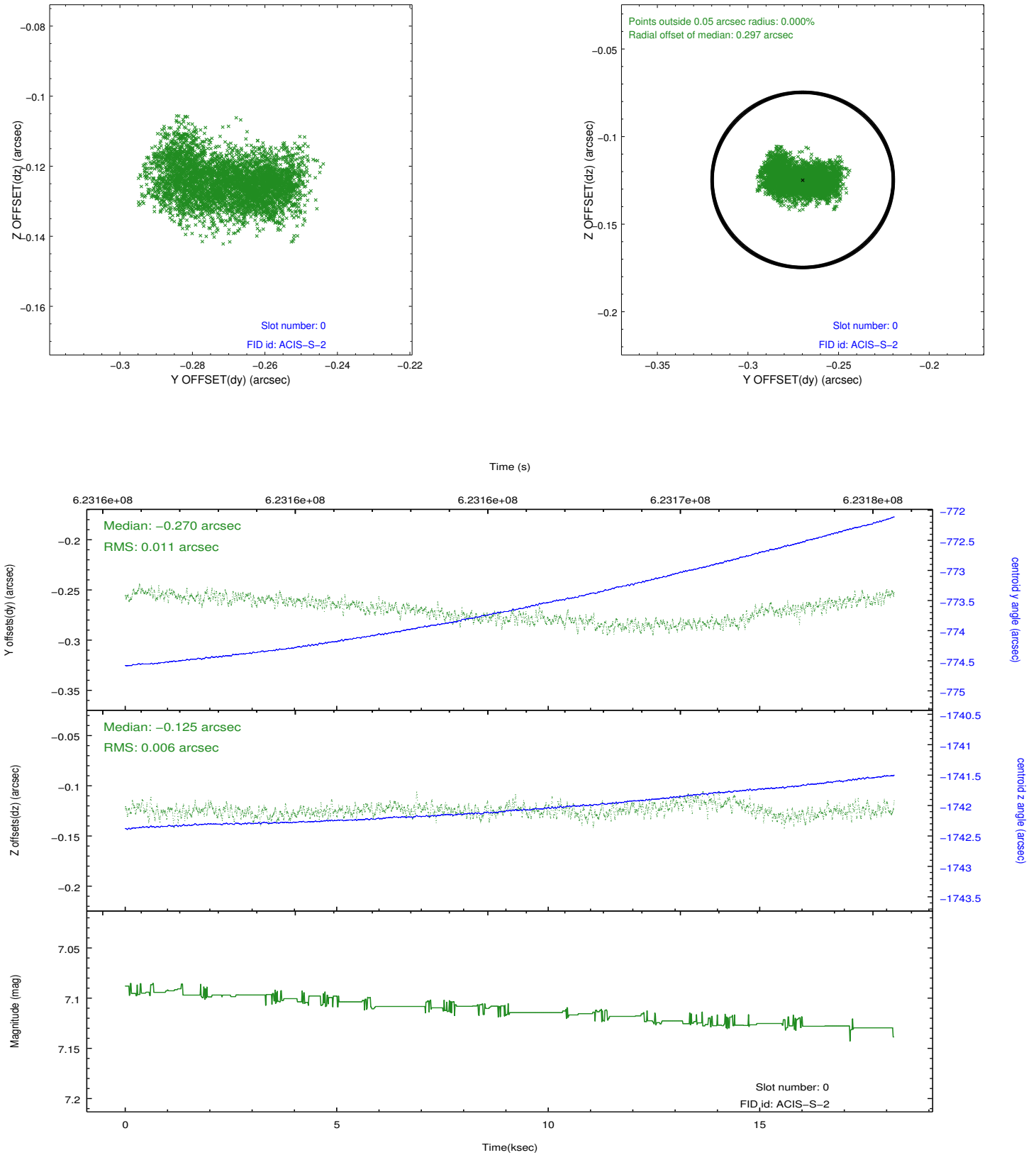


2.4.5 Slot 7

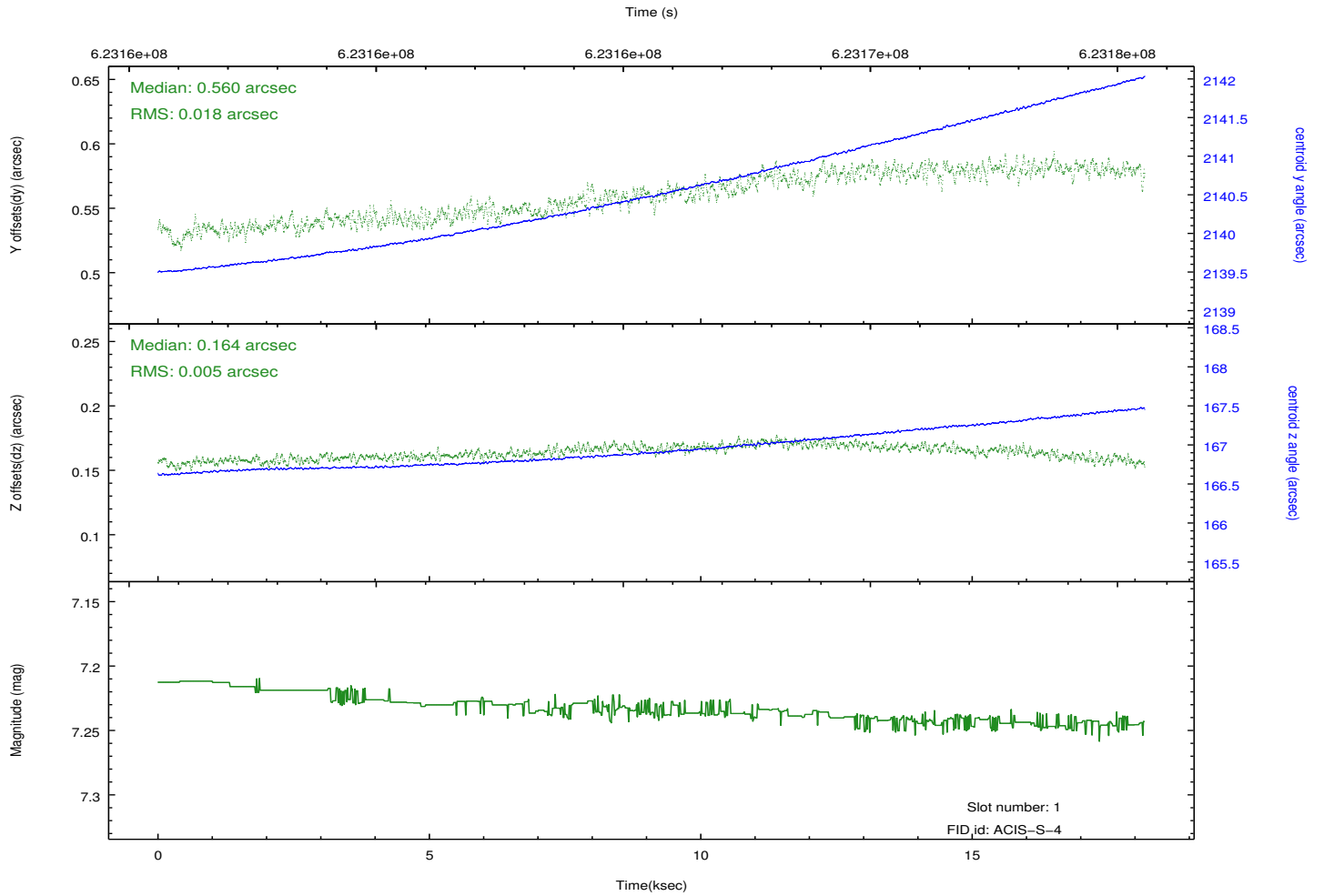
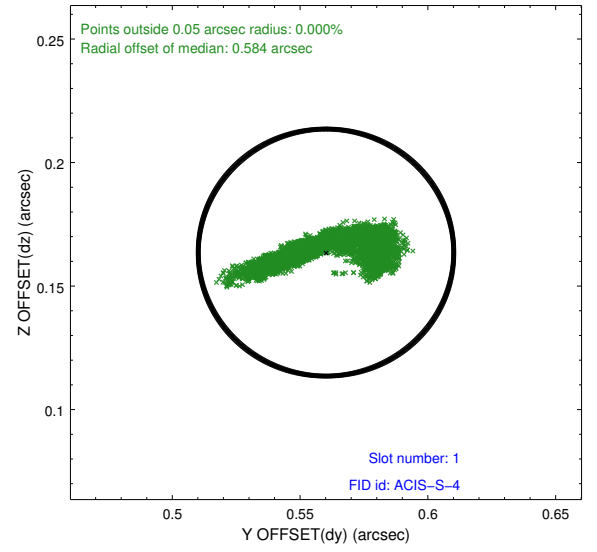
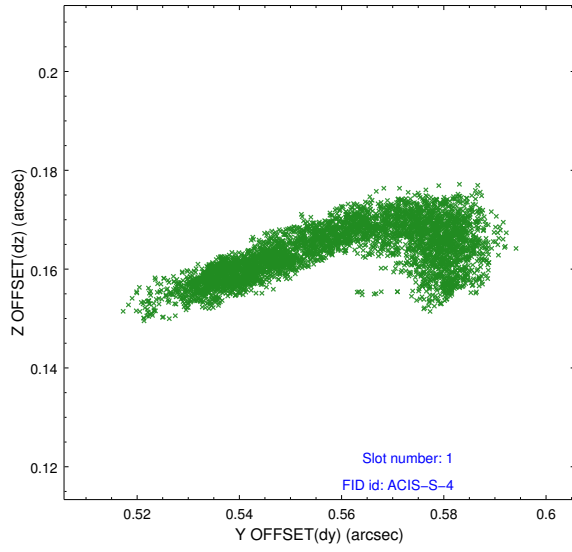


2.5 FID Slots

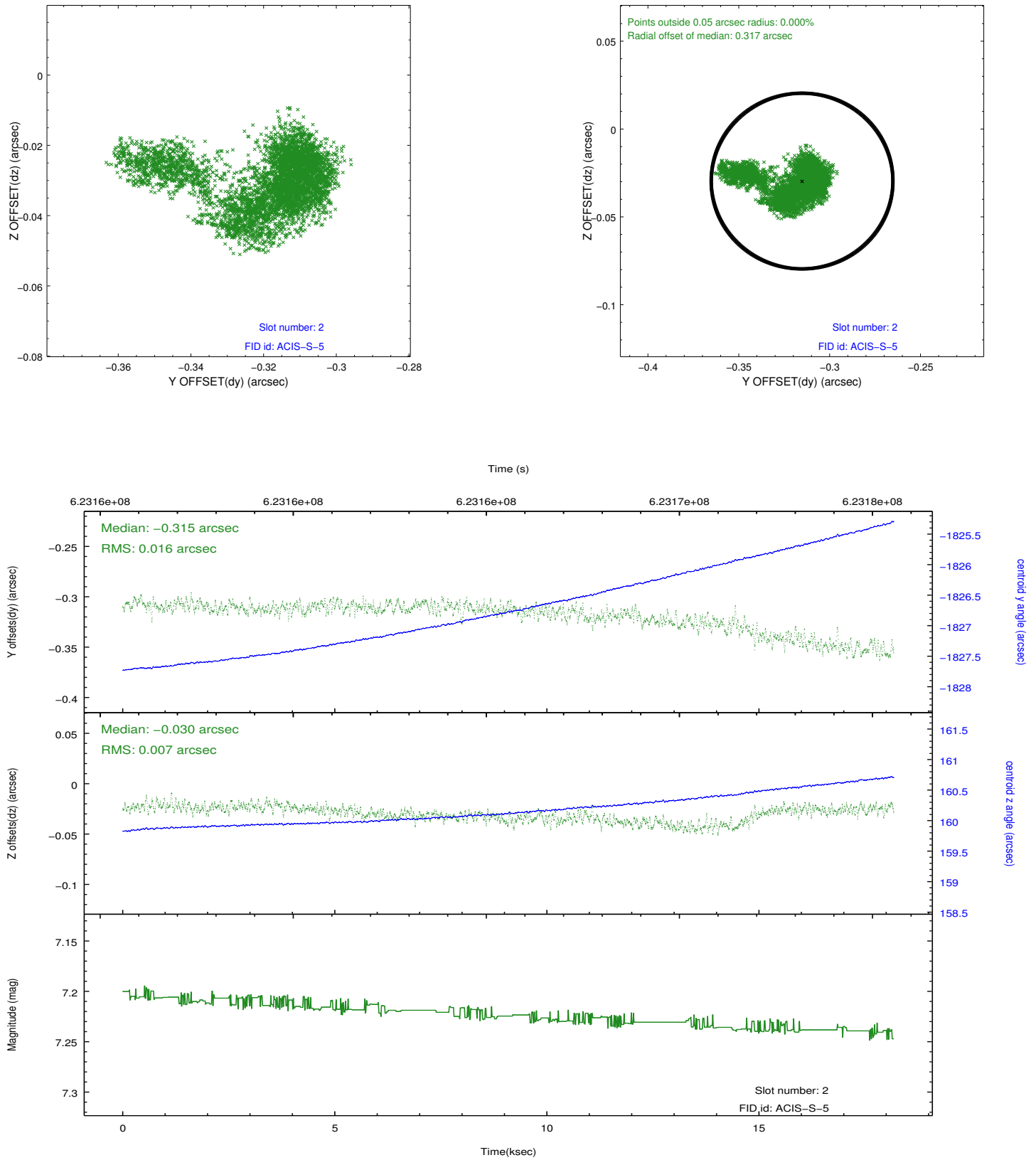
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2017.10.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	18.110200139403

A.2 Comments