

V&V Reference Report

L2 ASCDS Version : 10.7.1

Observation 21145 - L2 Version 1
Chandra X-Ray Center

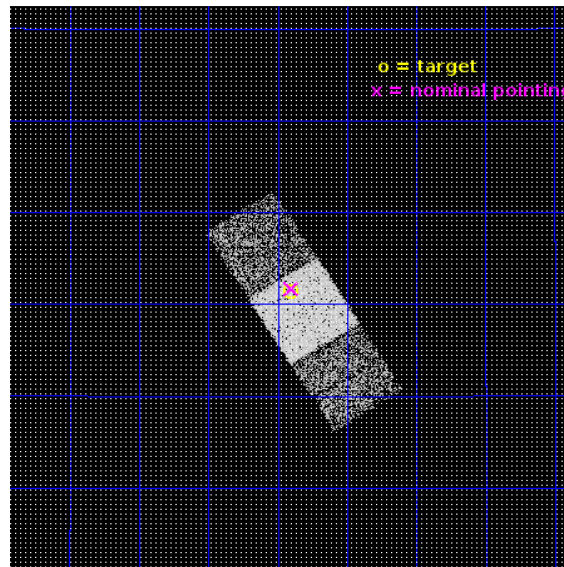
L2 Processing Date : Dec 26 2018

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1 Front

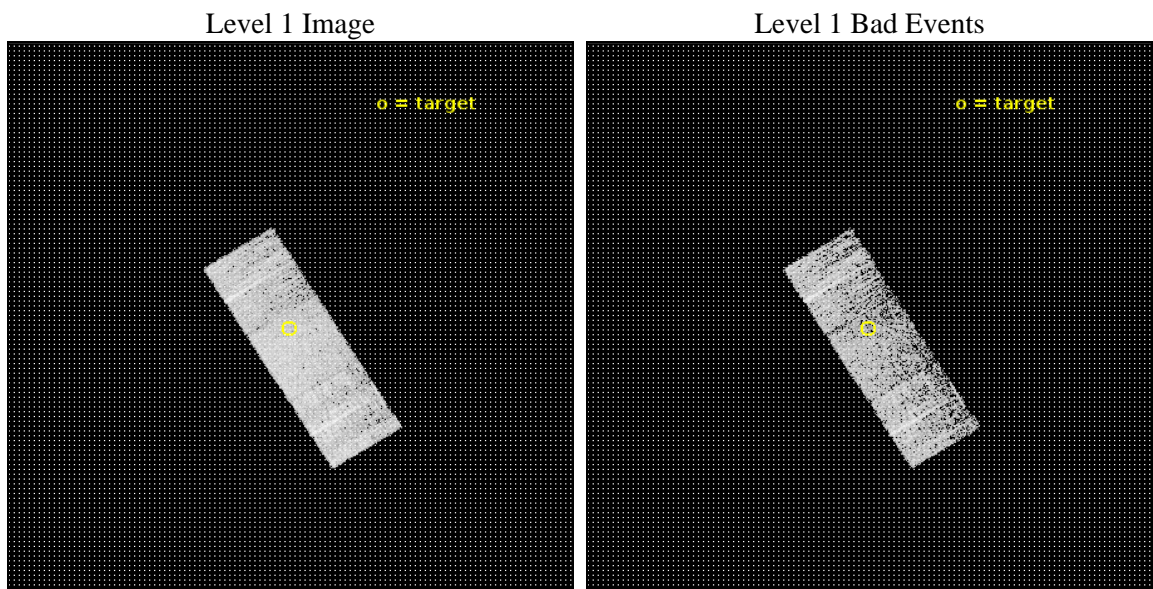
seq_num	703685	Sequence number
obs_id	21145	Observation id
title	A Chandra view of Eddington-limited accretion in DOGs	Proposal tit
observer	Dr. Gordon Garmire	Principal investigator
object	J1513+1451	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	228.477083	Observer's specified target RA [deg]
dec_targ	14.857028	Observer's specified target Dec [deg]
ra_nom	228.47528533947	Nominal RA [deg]
dec_nom	14.861484671882	Nominal Dec [deg]
roll_nom	58.157222678501	Nominal Roll [deg]
revision	1	Processing version of data
ontime	3109.3000240326	Sum of GTIs [s]
livetime	3068.6747301852	Livetime [s]
ontime6	3109.3000240326	Sum of GTIs [s]
ontime7	3109.3000240326	Sum of GTIs [s]
ontime8	3109.3000240326	Sum of GTIs [s]
l2events	18023	Number of level 2 events



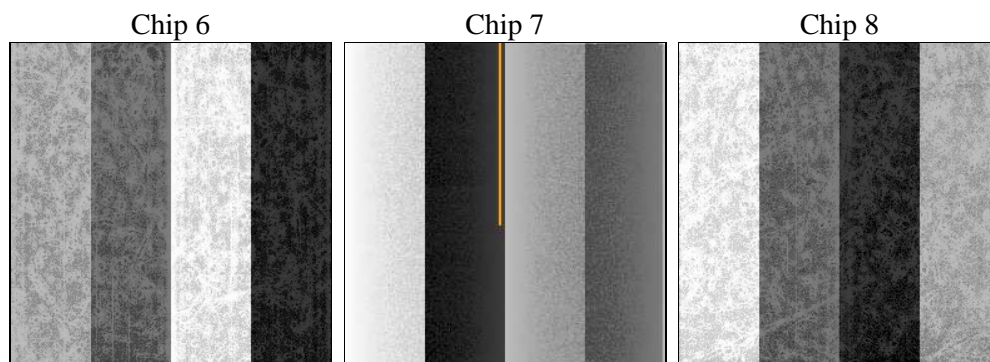
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3000.000000	[s] Scheduled observation exposure time
ascdsver	10.7.1	Processing system revision	ontime	3109.3000240326	Sum of GTIs [s]
caldsver	4.8.2	 	ontime6	3109.3000240326	Sum of GTIs [s]
date	2018-12-27T00:39:09	Date and time of file creation	ontime7	3109.3000240326	Sum of GTIs [s]
revision	1	Processing version of data	ontime8	3109.3000240326	Sum of GTIs [s]
			l1events	86701	Number of level 1 events

2.1.4 Events

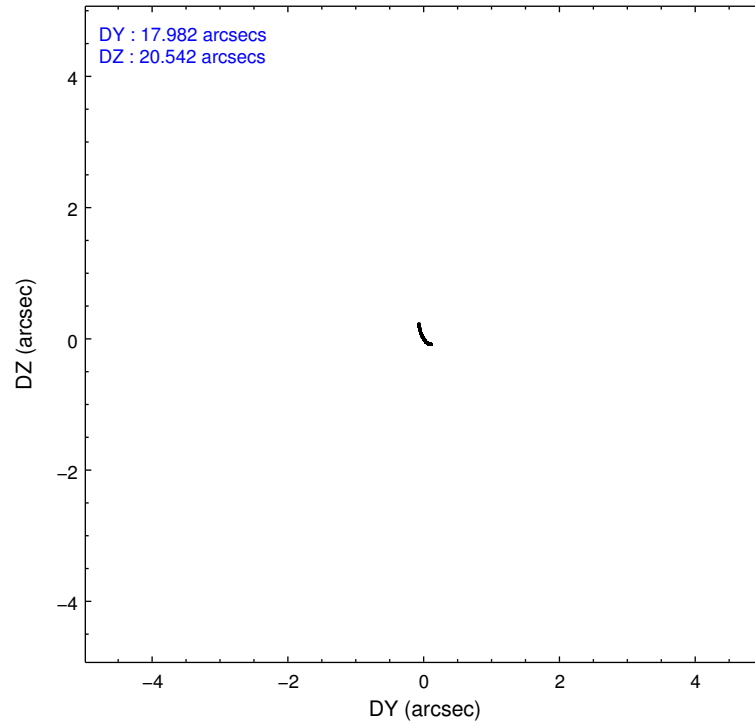
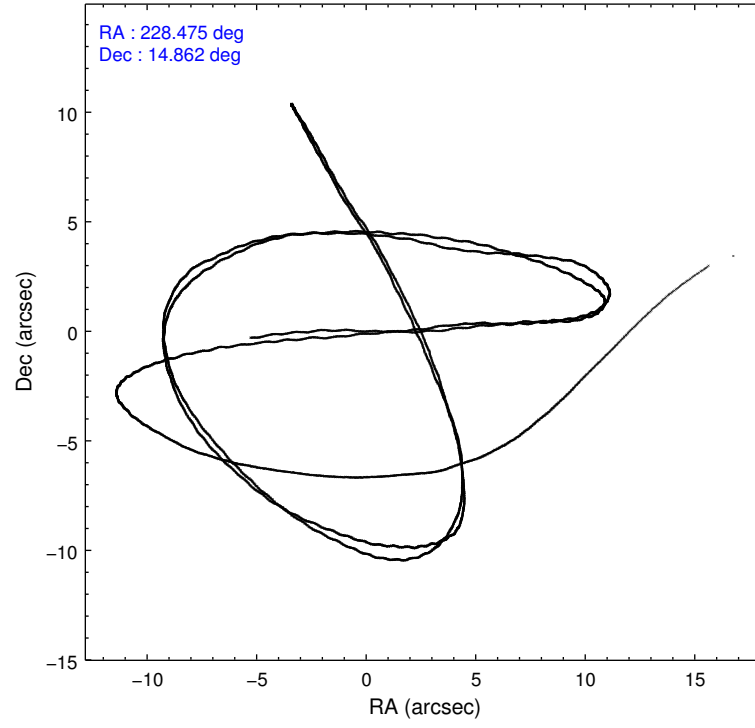
	ccd 6	ccd 7	ccd 8
level 1 events	25410	31030	30261
rejected events	22781	17528	22145
rejected %	89%	56%	73%

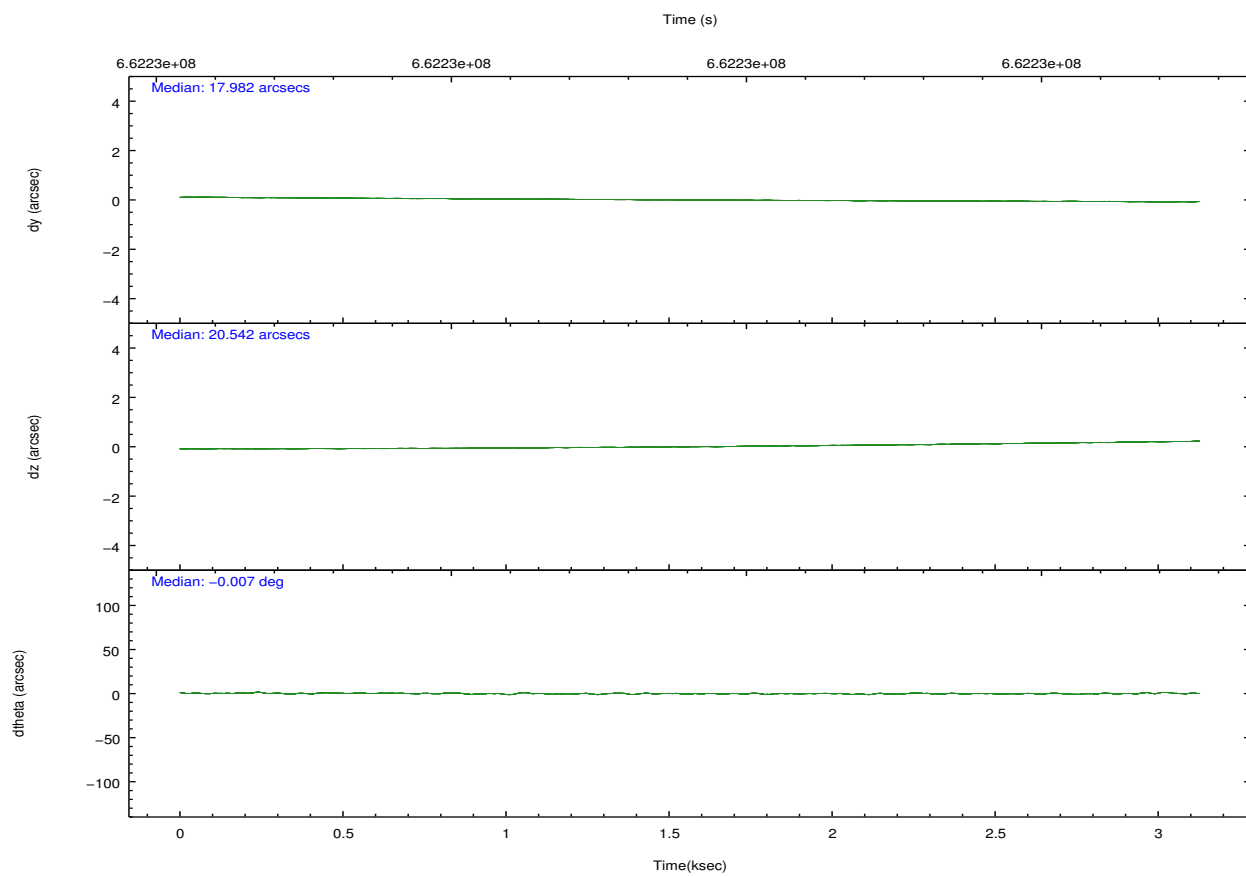
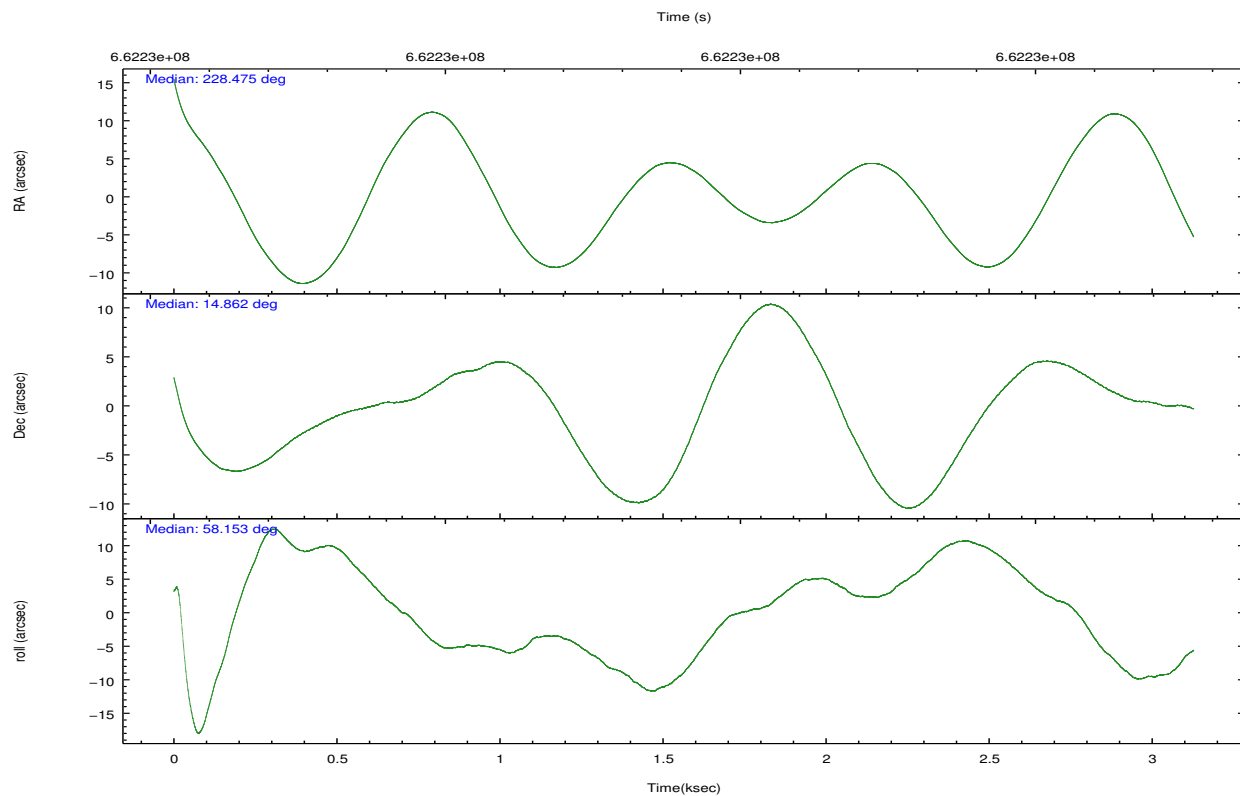
	ccd 6	ccd 7	ccd 8
grade 0 events	779	1150	2332
	3%	3%	7%
grade 1 events	7	40	19
	0%	0%	0%
grade 2 events	681	2779	1859
	2%	8%	6%
grade 3 events	245	1025	918
	0%	3%	3%
grade 4 events	224	1031	859
	0%	3%	2%
grade 5 events	1058	2882	1573
	4%	9%	5%
grade 6 events	711	7546	2158
	2%	24%	7%
grade 7 events	21705	14577	20543
	85%	46%	67%

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	228.474625	228.4752853394668	Subarray requested	NONE	NONE
[deg] Pointing Dec	14.834086	14.86148467188223	Alternating exposures requested	N	N
[deg] Pointing Roll	58.000638	58.15722267850052	[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)	662230381.184000	662229165.34727			
Observation start date	2018-12-26T16:51:52	2018-12-26T16:32:45			
[s] Observation end time (MET)	662233381.184000	662234390.79758			
Observation end date	2018-12-26T17:41:52	2018-12-26T17:59:50			
Read mode	TIMED	TIMED			

2.3 Aspect



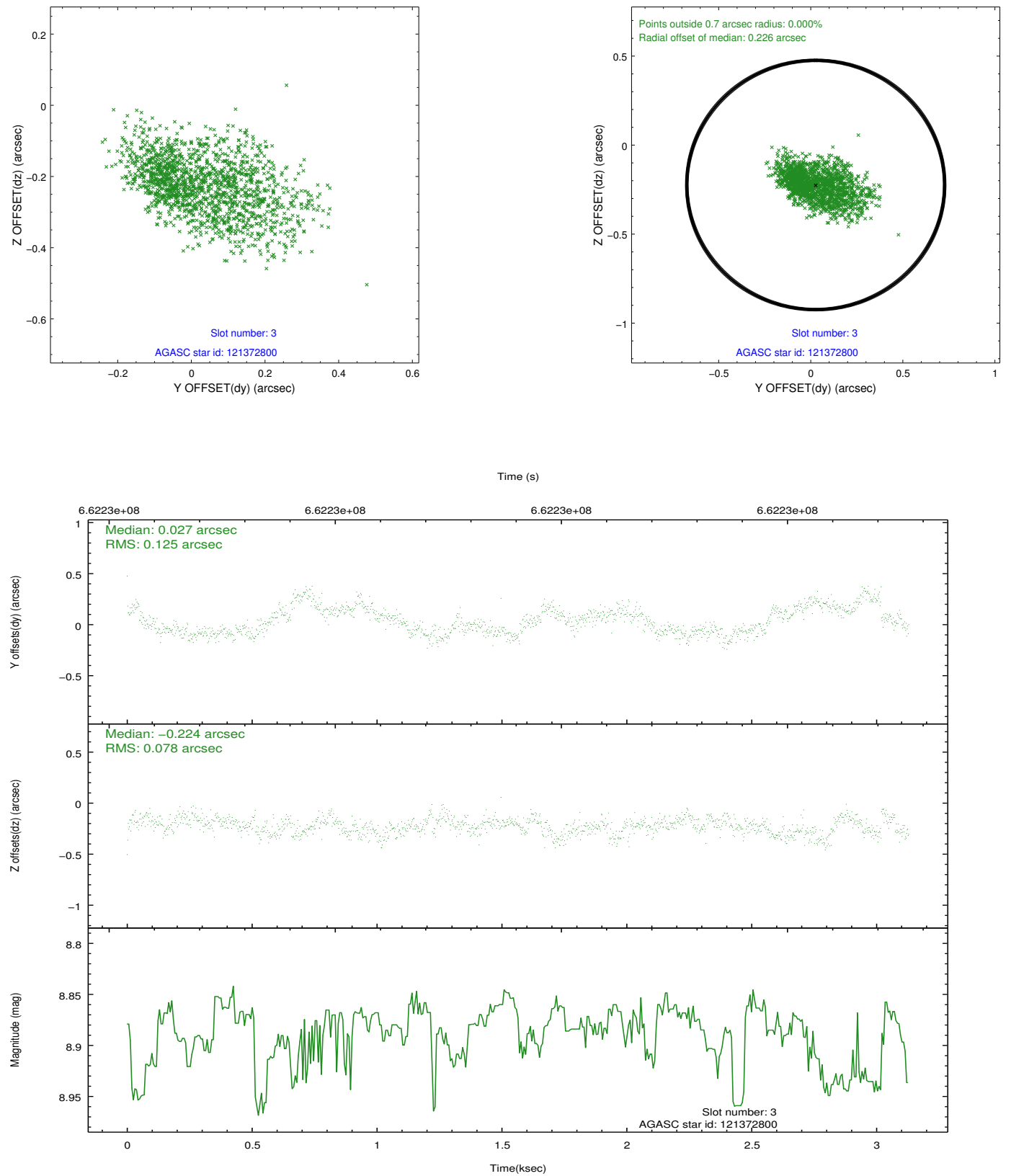


Slot Statistics

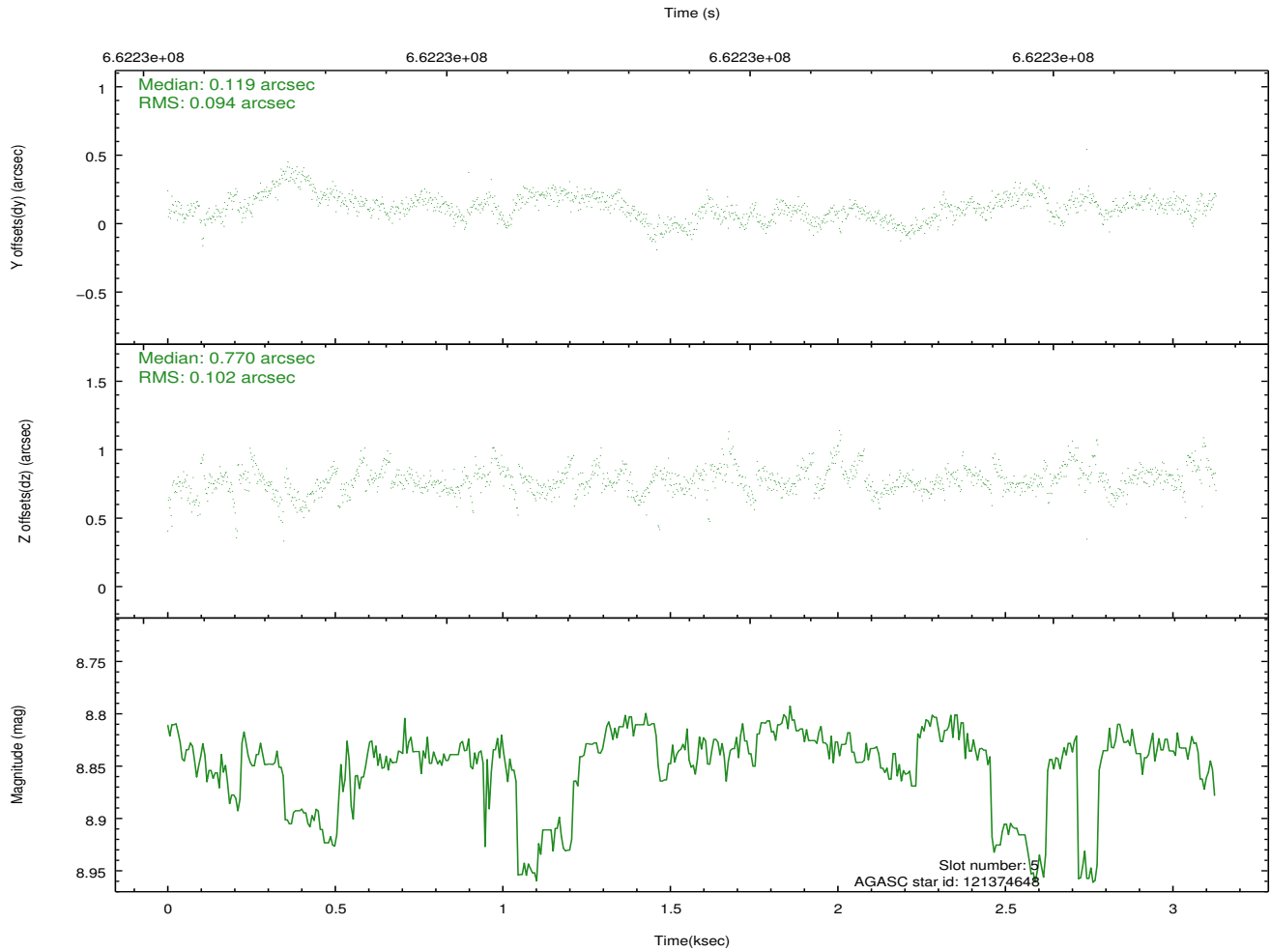
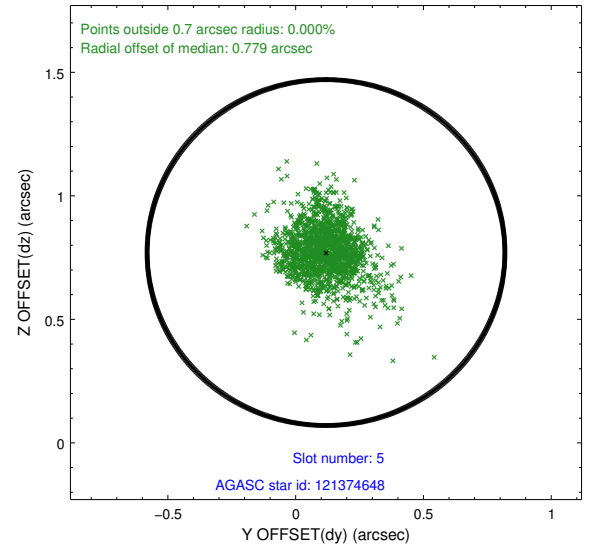
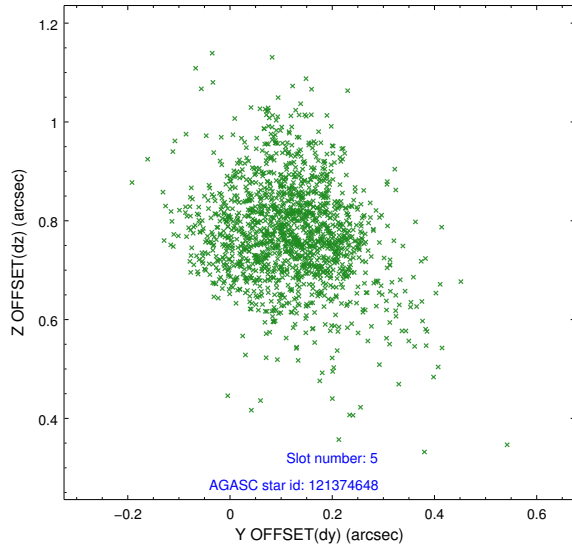
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.12	763	1.000	-0.387	-0.252	0.008	0.012	0.000000	0.000000	-771.33	-1742
1	FID		ACIS-S-4	7.24	763	1.000	0.878	0.254	0.006	0.011	0.000000	0.000000	2142.17	164
2	FID		ACIS-S-5	7.21	763	1.000	-0.521	0.007	0.007	0.014	0.000000	0.000000	-1821.80	160
3	GUIDE	used	121372800	8.88	1526	1.000	0.027	-0.224	0.152	0.262	228.241914	14.803887	-520.95	628
4	OMITTED			0.00	0	0.000	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0
5	GUIDE	used	121374648	8.84	1527	1.000	0.119	0.770	0.140	0.252	229.040693	14.474101	-51.49	-2357
6	GUIDE	used	121373160	9.28	1524	1.000	0.151	-0.315	0.181	0.309	227.594076	14.745356	-1890.34	2432
7	GUIDE	used	194777744	9.98	1507	1.000	-0.306	-0.224	0.294	0.460	228.865150	15.205909	1854.05	-438

2.4 Star Slots

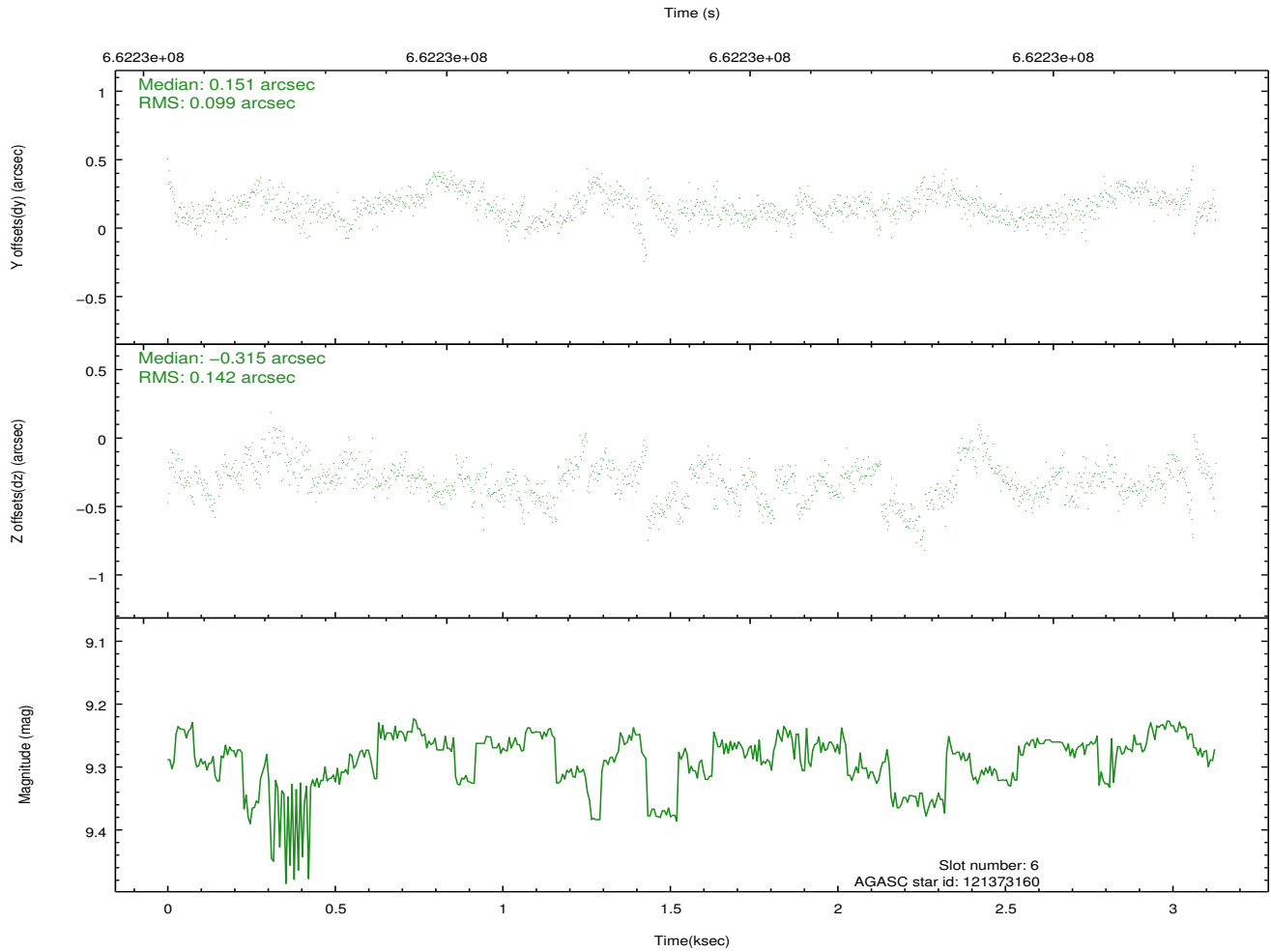
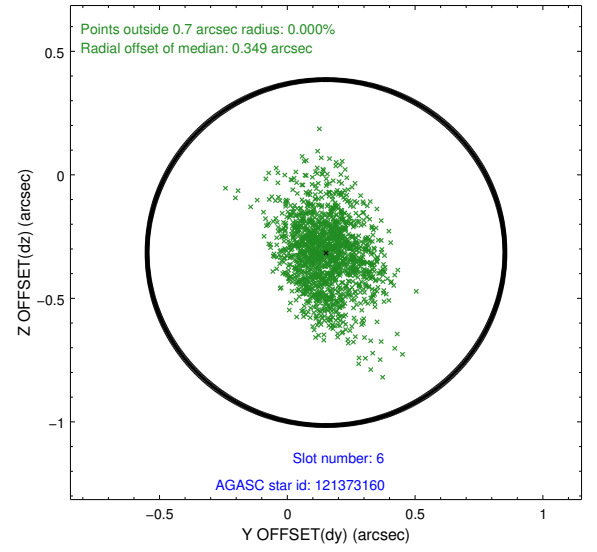
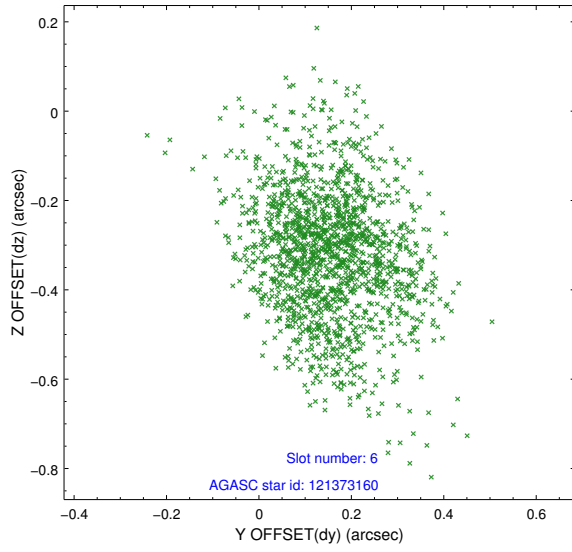
2.4.1 Slot 3



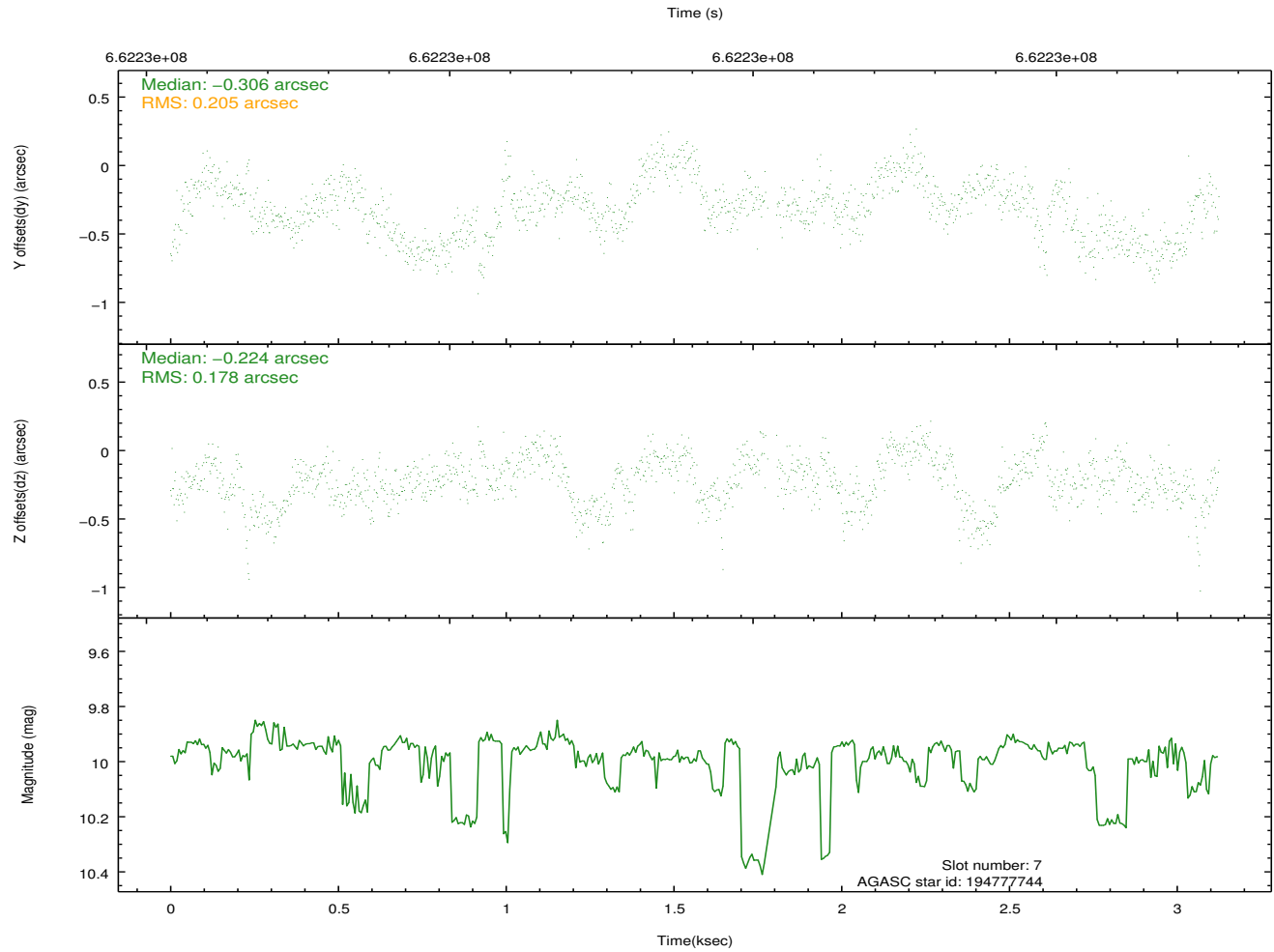
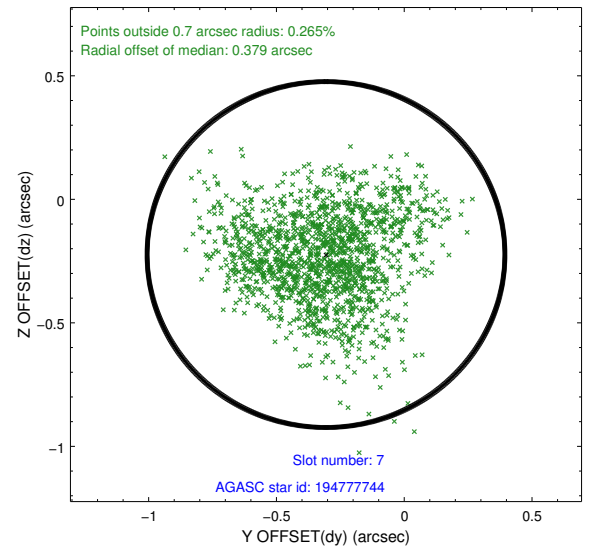
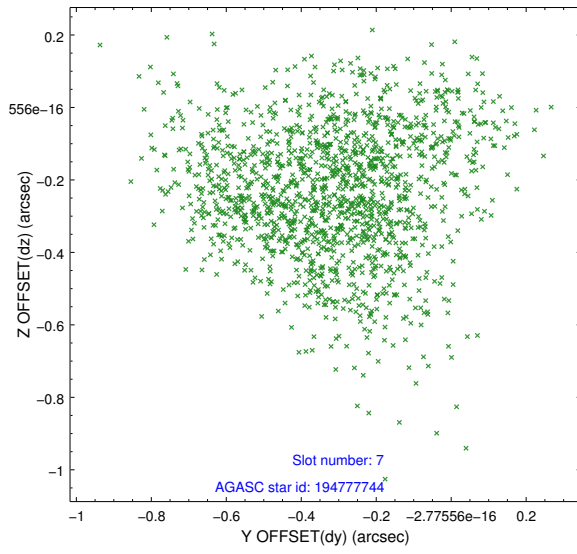
2.4.2 Slot 5



2.4.3 Slot 6

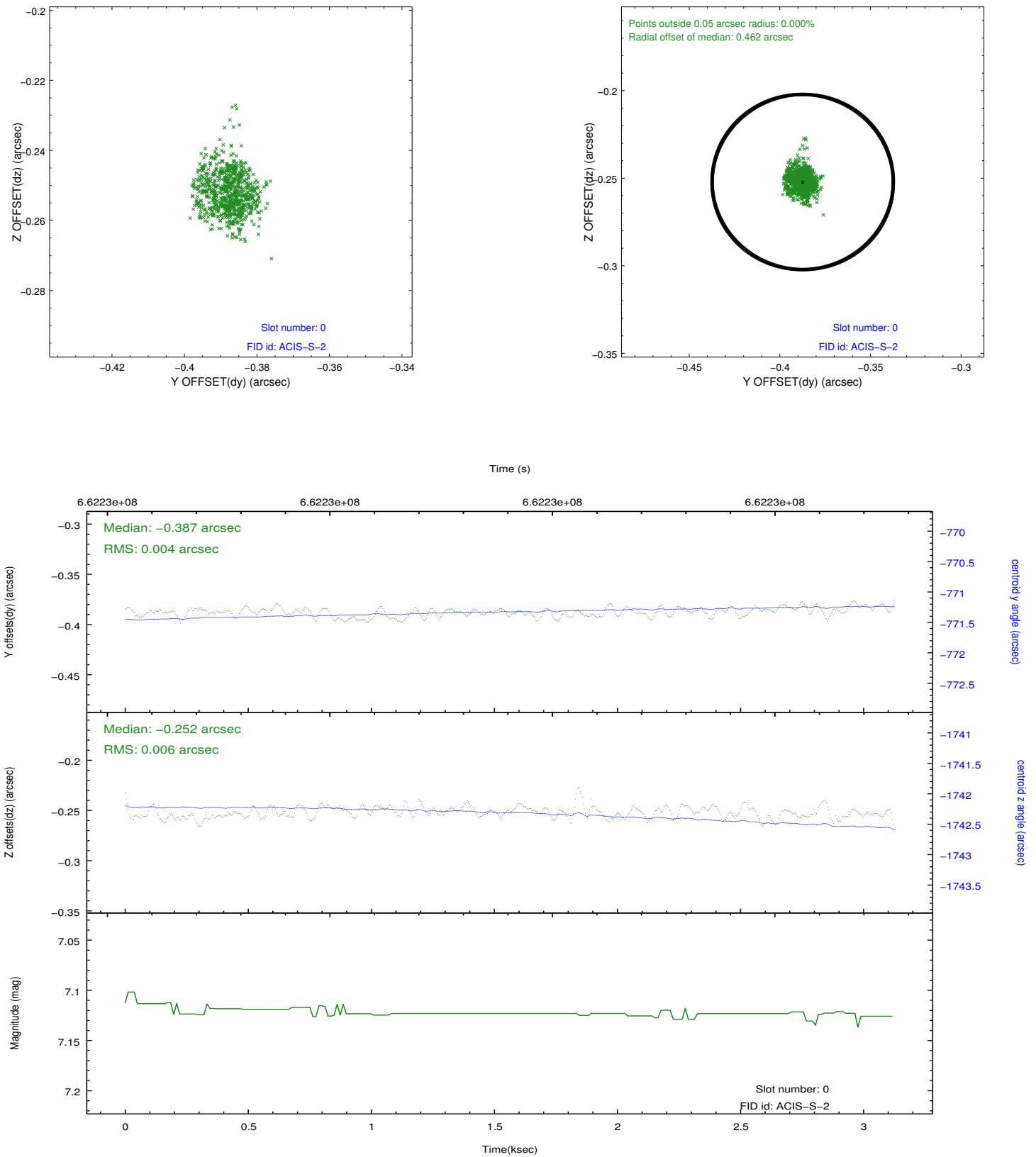


2.4.4 Slot 7

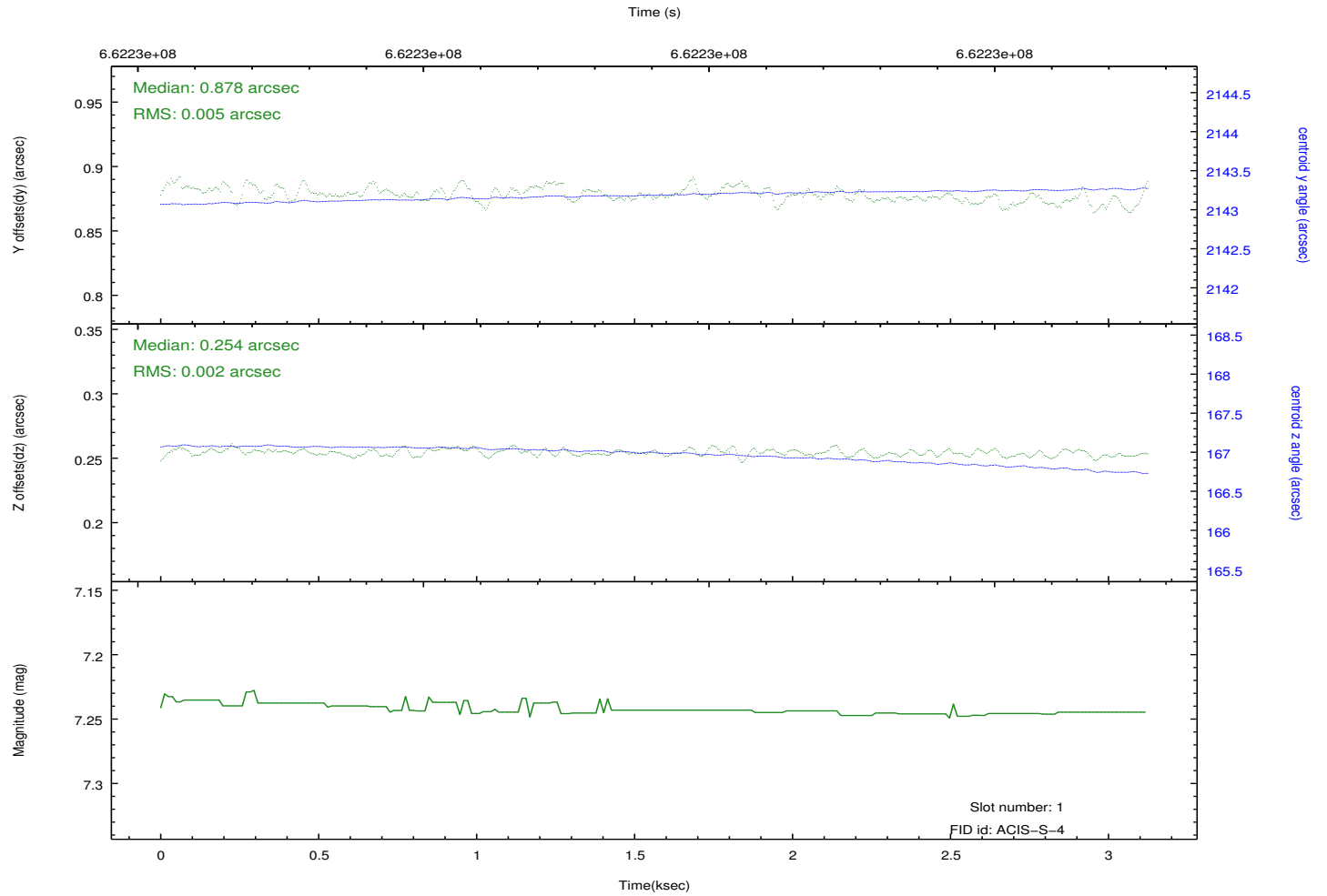
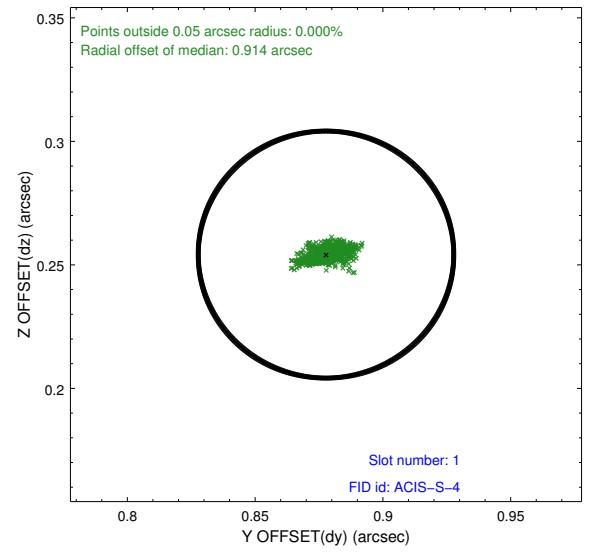
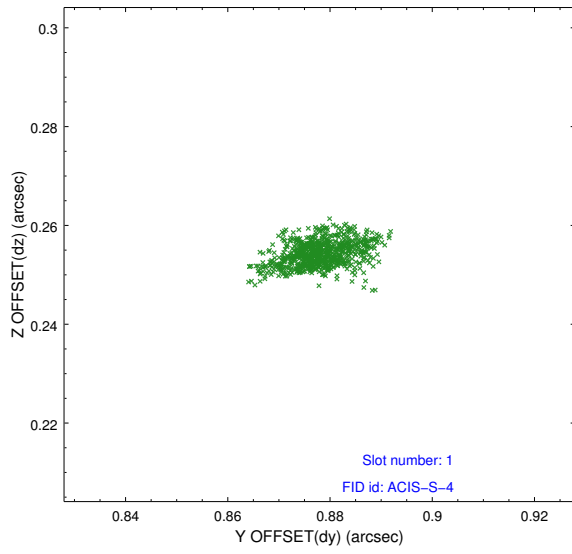


2.5 FID Slots

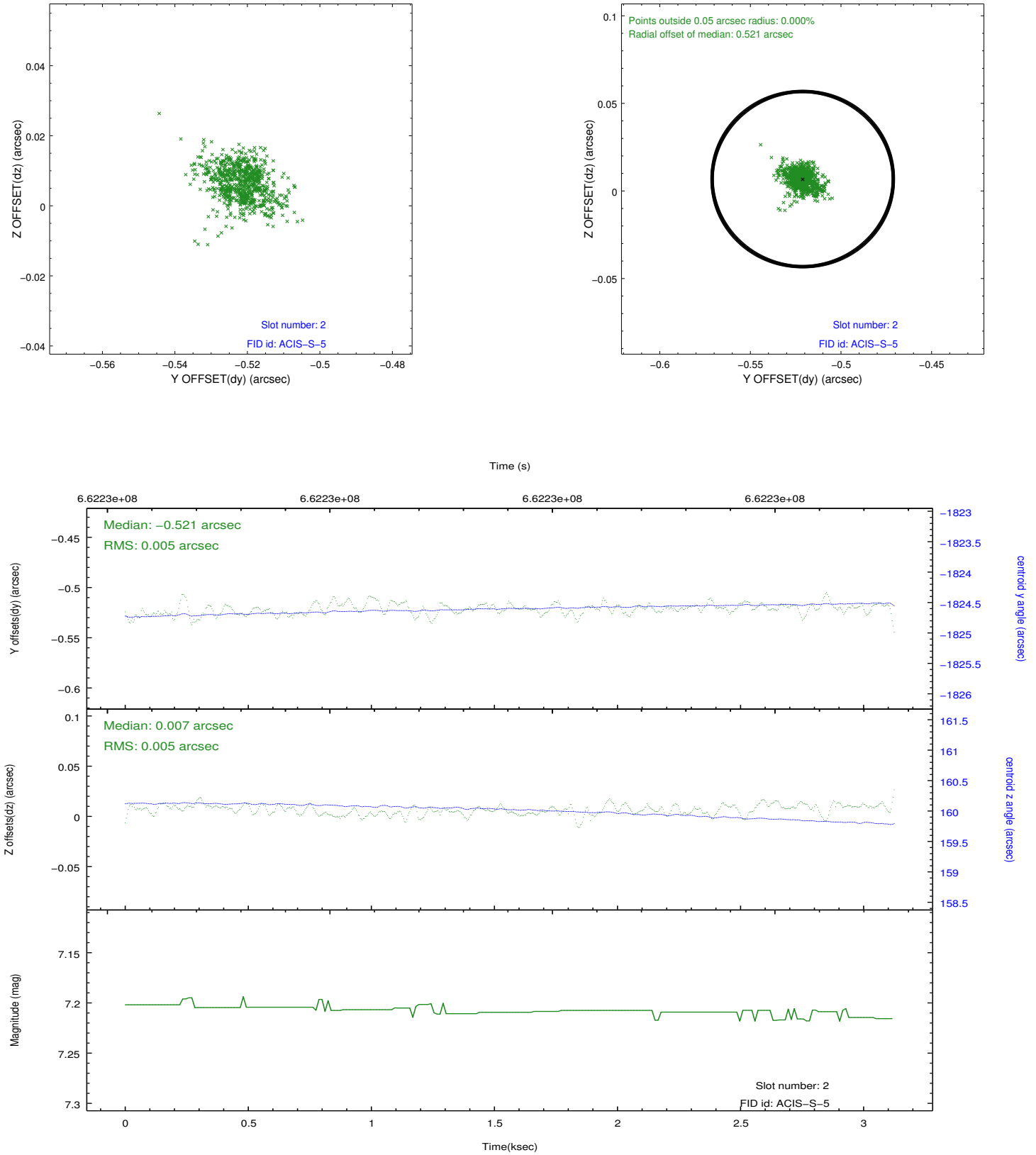
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2018.12.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.1093000240326

A.2 Comments

The guide star in slot 4 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this guide star from the solution.