

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 19530 - L2 Version 2
Chandra X-Ray Center

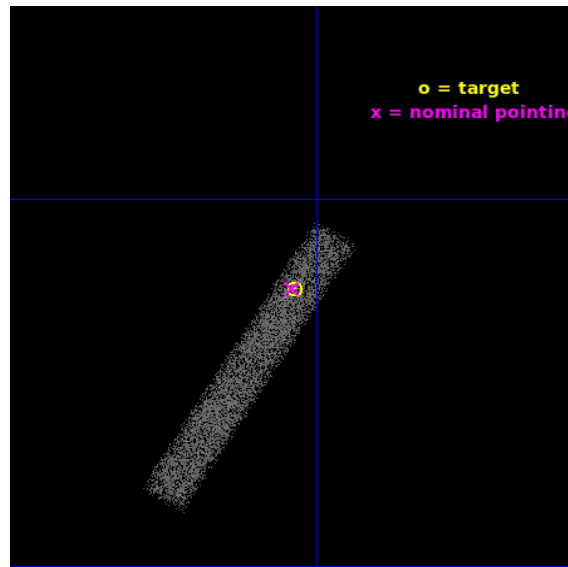
L2 Processing Date : Oct 25 2020

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1 Front

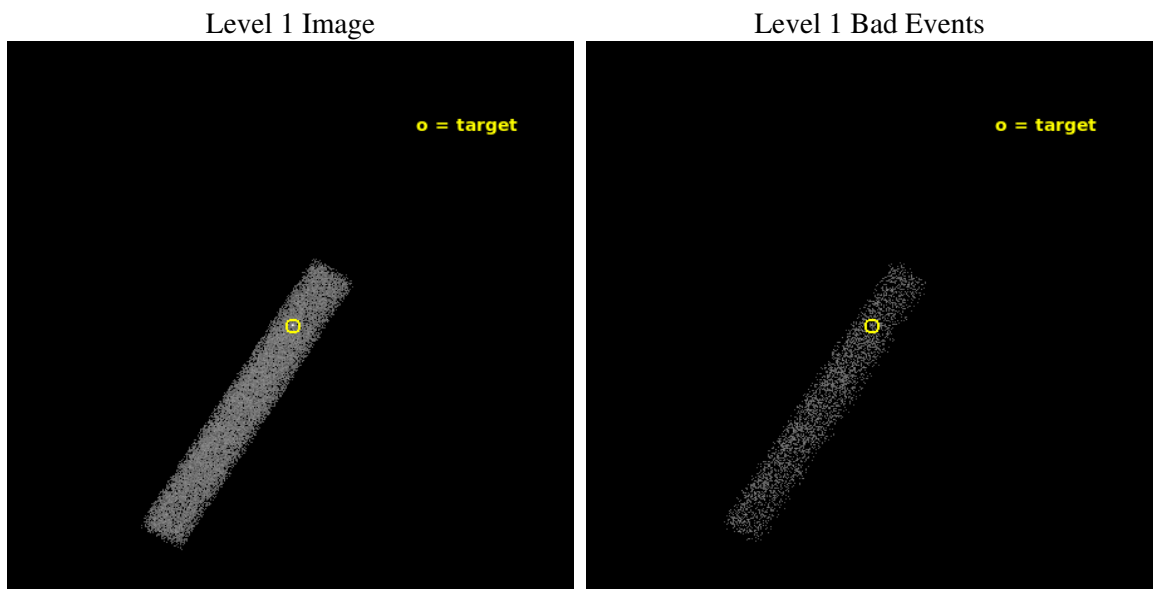
seq_num	703378	Sequence number
obs_id	19530	Observation id
title	Surveying the X-Ray Properties of Candidate Subparsec Scale SMBH Binaries	Proposal title
observer	Daniel Stern	Principal investigator
object	4C +50.43	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	262.765	Observer's specified target RA [deg]
dec_targ	50.126111	Observer's specified target Dec [deg]
ra_nom	262.76686772057	Nominal RA [deg]
dec_nom	50.126127514122	Nominal Dec [deg]
roll_nom	121.94474322417	Nominal Roll [deg]
revision	2	Processing version of data
ontime	17568.398952723	Sum of GTIs [s]
livetime	15933.610513987	Livetime [s]
ontime7	17568.398952723	Sum of GTIs [s]
l2events	11514	Number of level 2 events



2 OBI

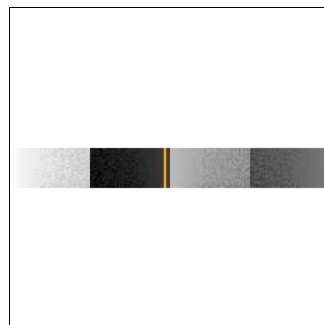
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	17500.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	17568.398952723	Sum of GTIs [s]
caldsver	4.9.3	 	ontime7	17568.398952723	Sum of GTIs [s]
date	2020-10-25T12:57:39	Date and time of file creation	l1events	23823	Number of level 1 events
revision	2	Processing version of data			

2.1.4 Events

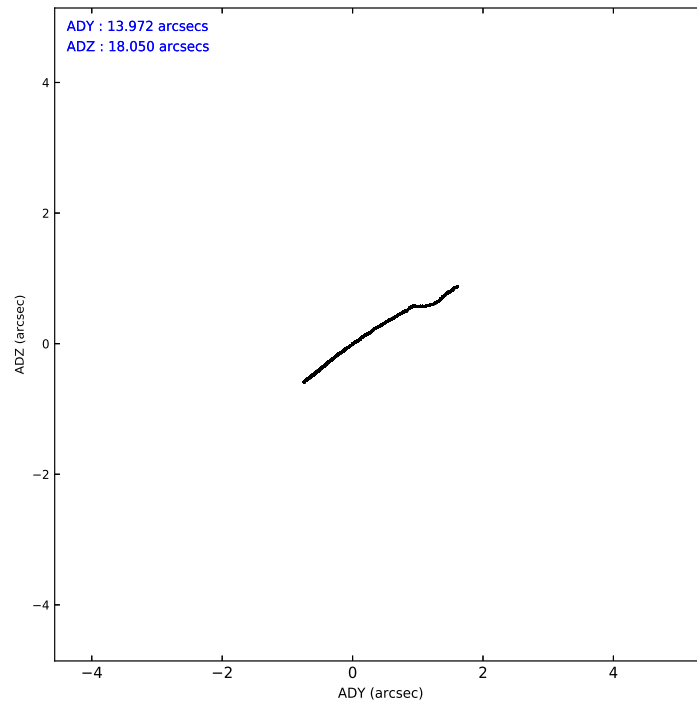
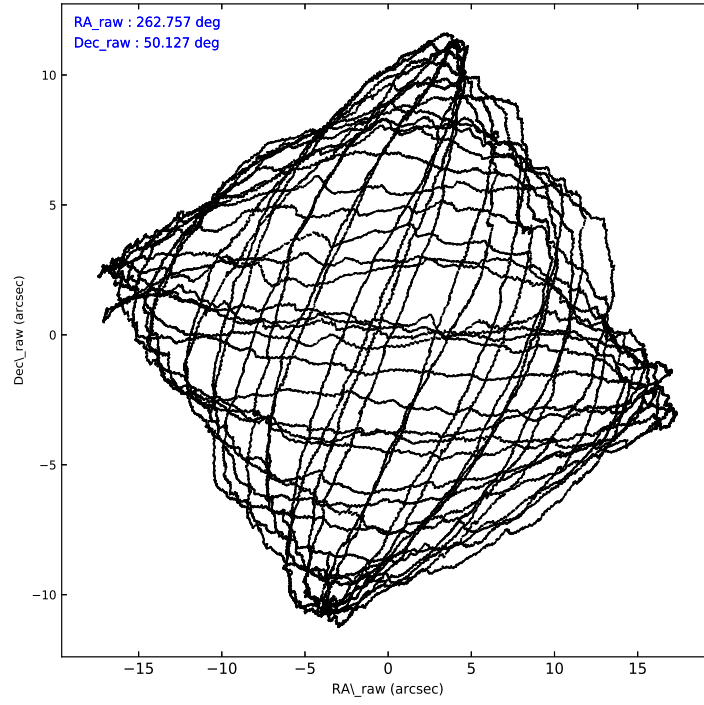
	ccd 7
level 1 events	23823
rejected events	11807
rejected %	49%

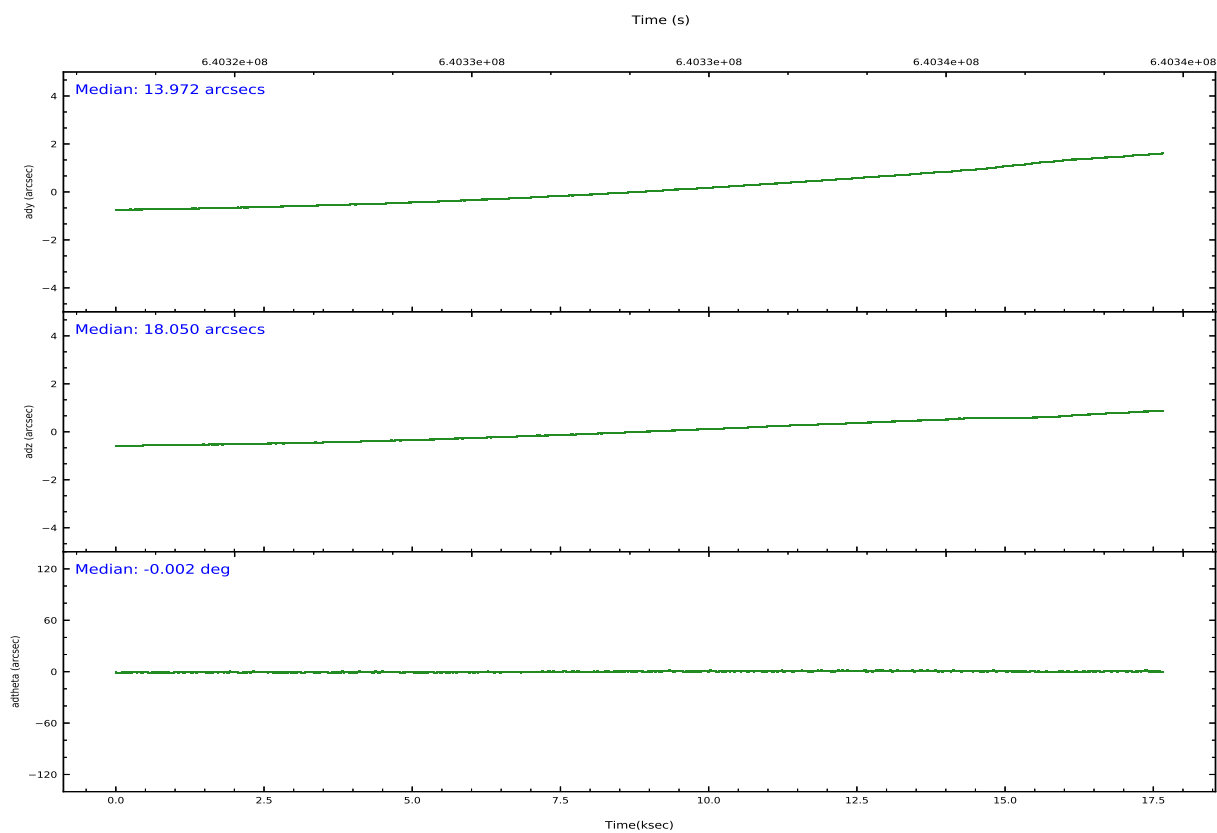
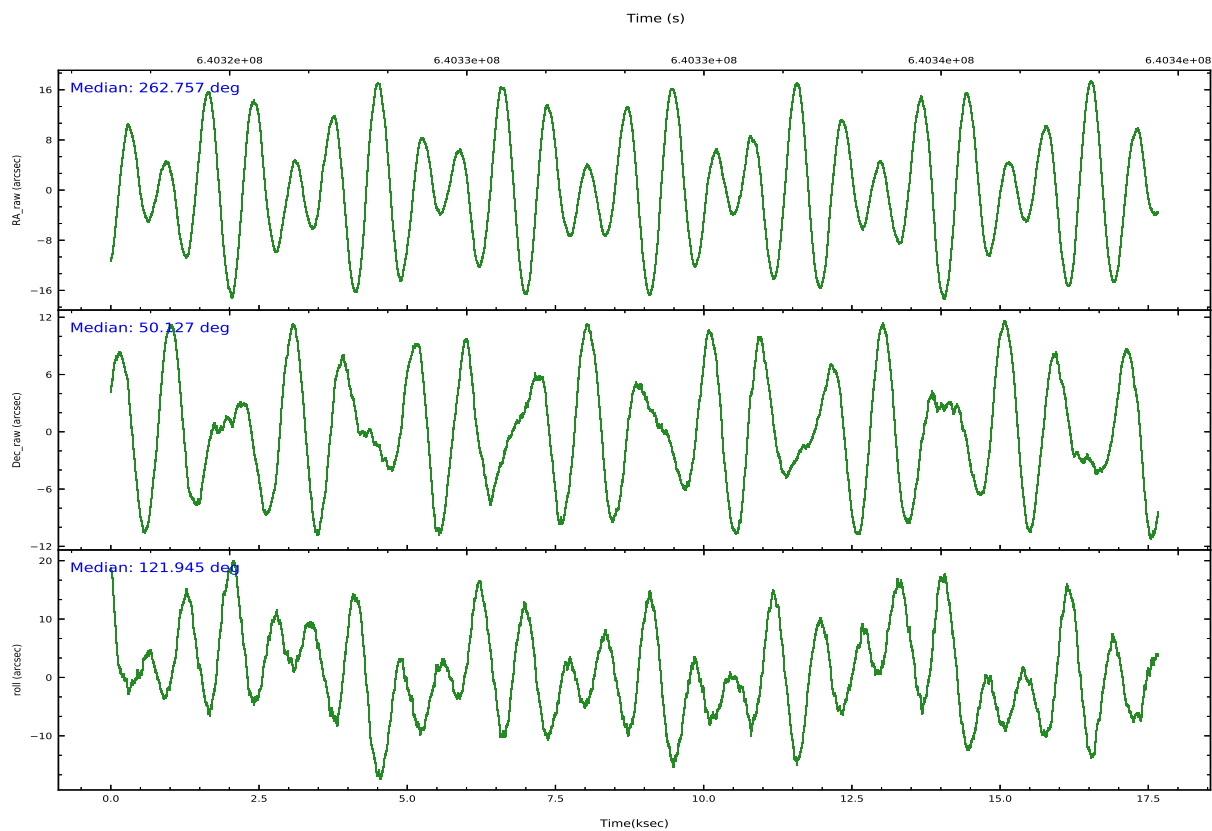
	ccd 7
grade 0 events	1329
	5%
grade 1 events	35
	0%
grade 2 events	2324
	9%
grade 3 events	1619
	6%
grade 4 events	1536
	6%
grade 5 events	2245
	9%
grade 6 events	5208
	21%
grade 7 events	9527
	39%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-7	ACIS-7	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	262.794629	262.76686772057	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	50.114248	50.126127514122	Subarray start row	449	449
[deg] Pointing Roll	121.762106	121.94474322417	Subarray row count	128	128
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	0.4
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	640322162.184000	640321236.77985			
Observation start date	2018-04-17T03:14:53	2018-04-17T03:00:36			
[s] Observation end time (MET)	640339662.184000	640340254.63097			
Observation end date	2018-04-17T08:06:33	2018-04-17T08:17:34			
Read mode	TIMED	TIMED			

2.3 Aspect



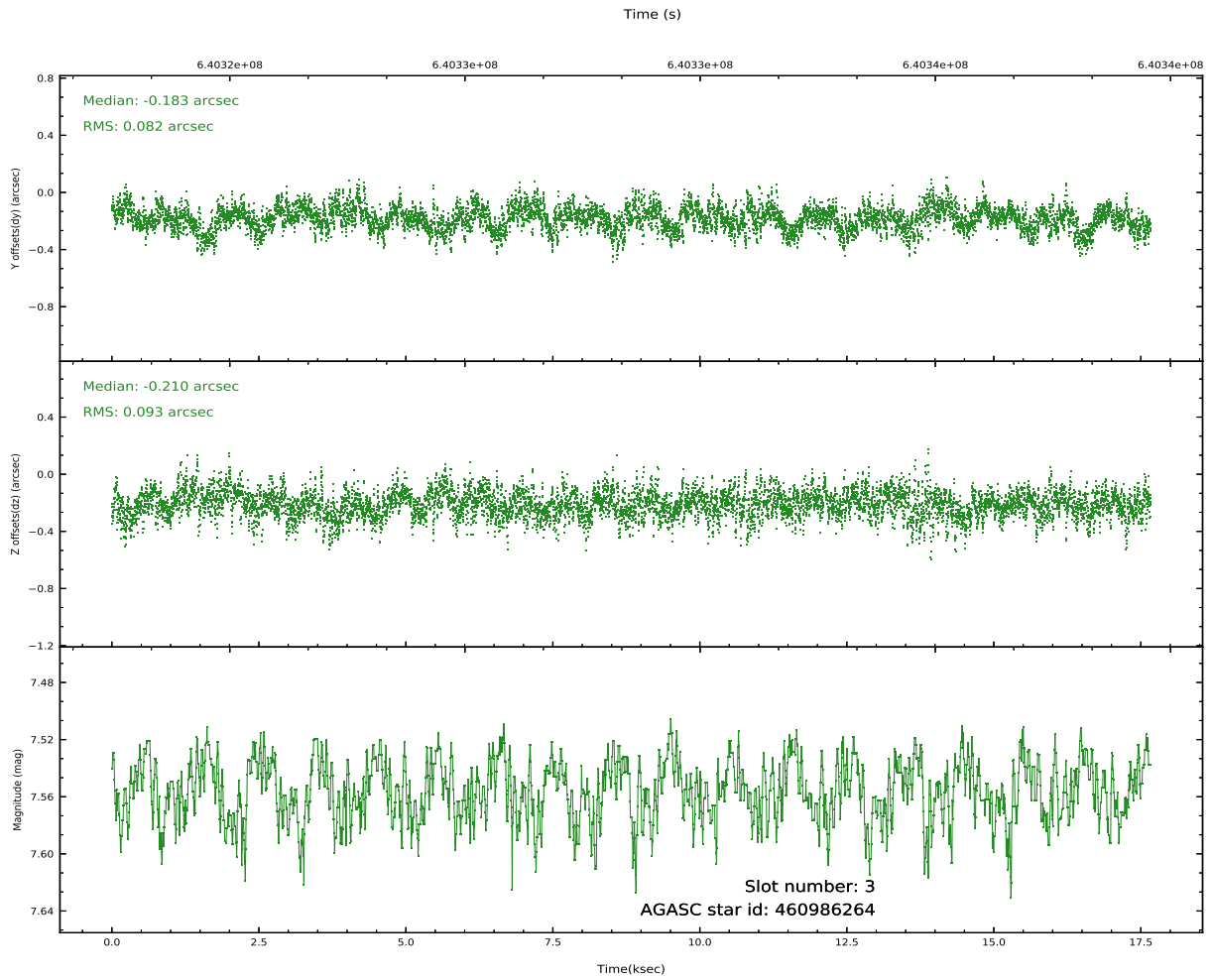
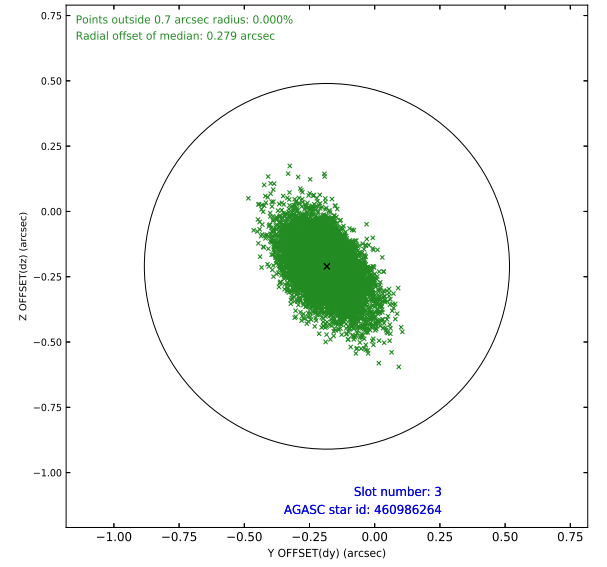
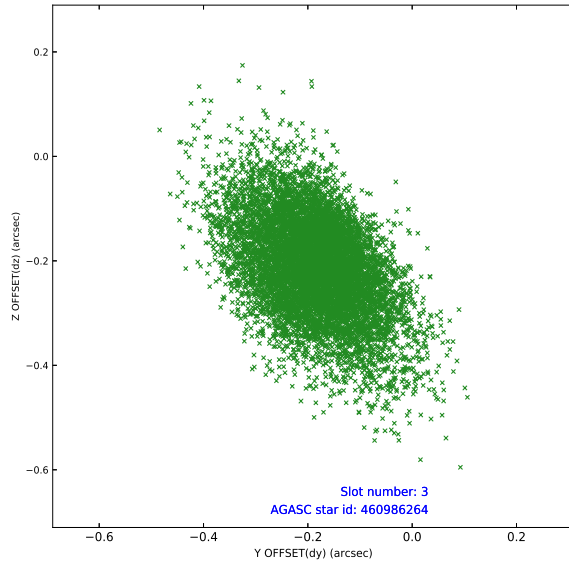


Slot Statistics

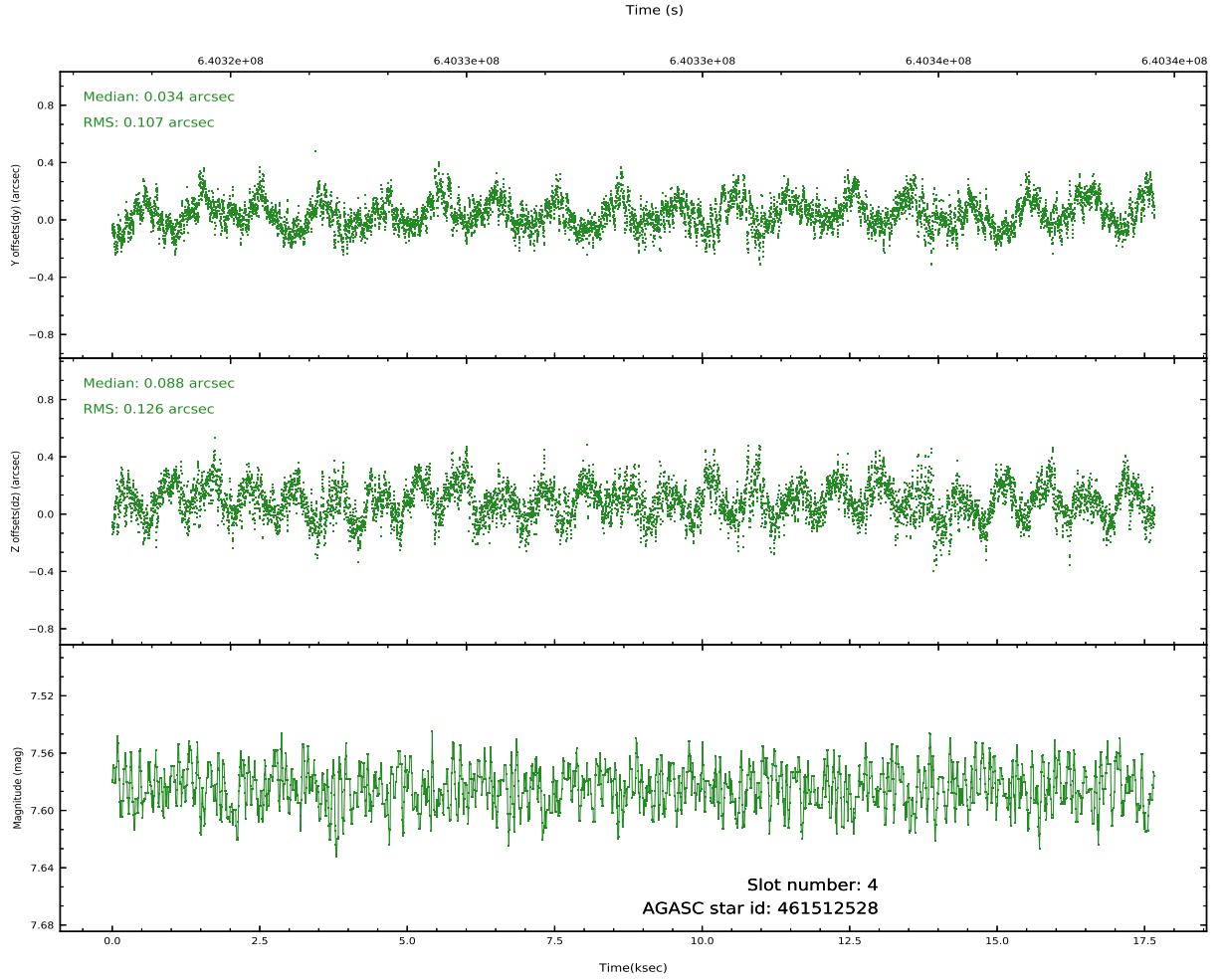
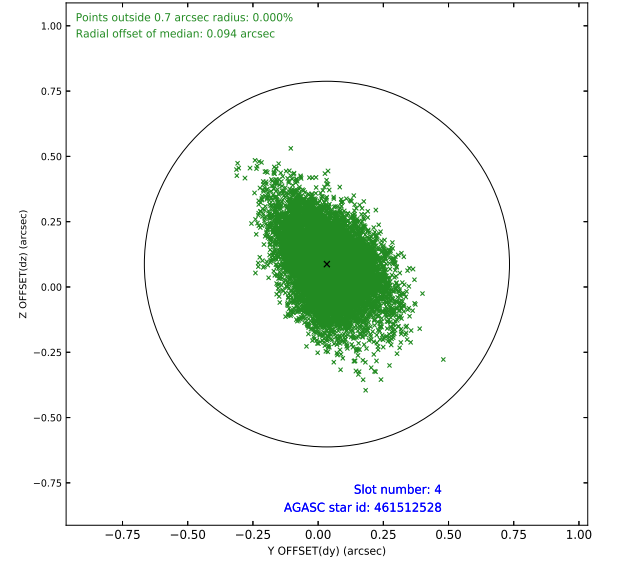
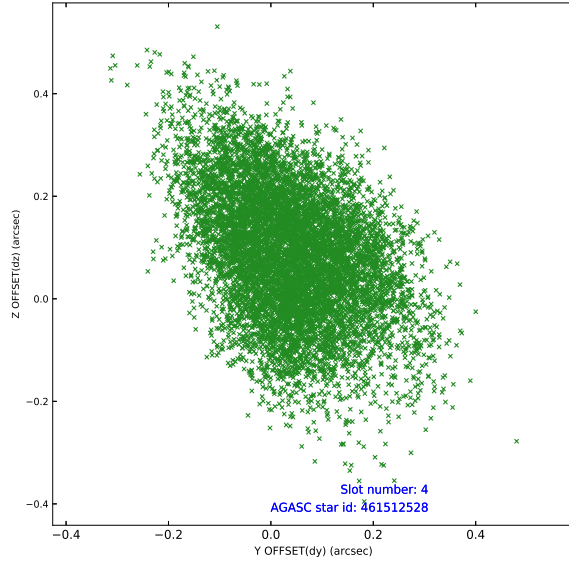
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-1	7.18	4309	1.000	0.293	-0.137	0.027	0.039	0.000000	0.000000	929.13	-1735
1	FID		ACIS-S-5	7.18	4310	1.000	-0.282	0.232	0.012	0.041	0.000000	0.000000	-1820.17	162
2	FID		ACIS-S-6	7.33	4308	1.000	-0.032	-0.078	0.015	0.028	0.000000	0.000000	394.29	806
3	GUIDE	used	460986264	7.56	8616	1.000	-0.183	-0.210	0.127	0.226	262.124359	50.163964	971.58	1216
4	GUIDE	used	461512528	7.58	8617	1.000	0.034	0.088	0.175	0.286	262.891271	50.678804	1612.16	-1255
5	GUIDE	used	460986696	8.07	8614	1.000	0.006	0.027	0.122	0.221	262.779299	49.724206	-1174.70	769
6	GUIDE	used	460986728	7.55	8615	1.000	-0.014	-0.098	0.145	0.239	262.887840	49.723239	-1310.95	556
7	GUIDE	used	460987240	9.28	8606	1.000	0.152	0.200	0.196	0.310	263.682540	49.710666	-2312.60	-998

2.4 Star Slots

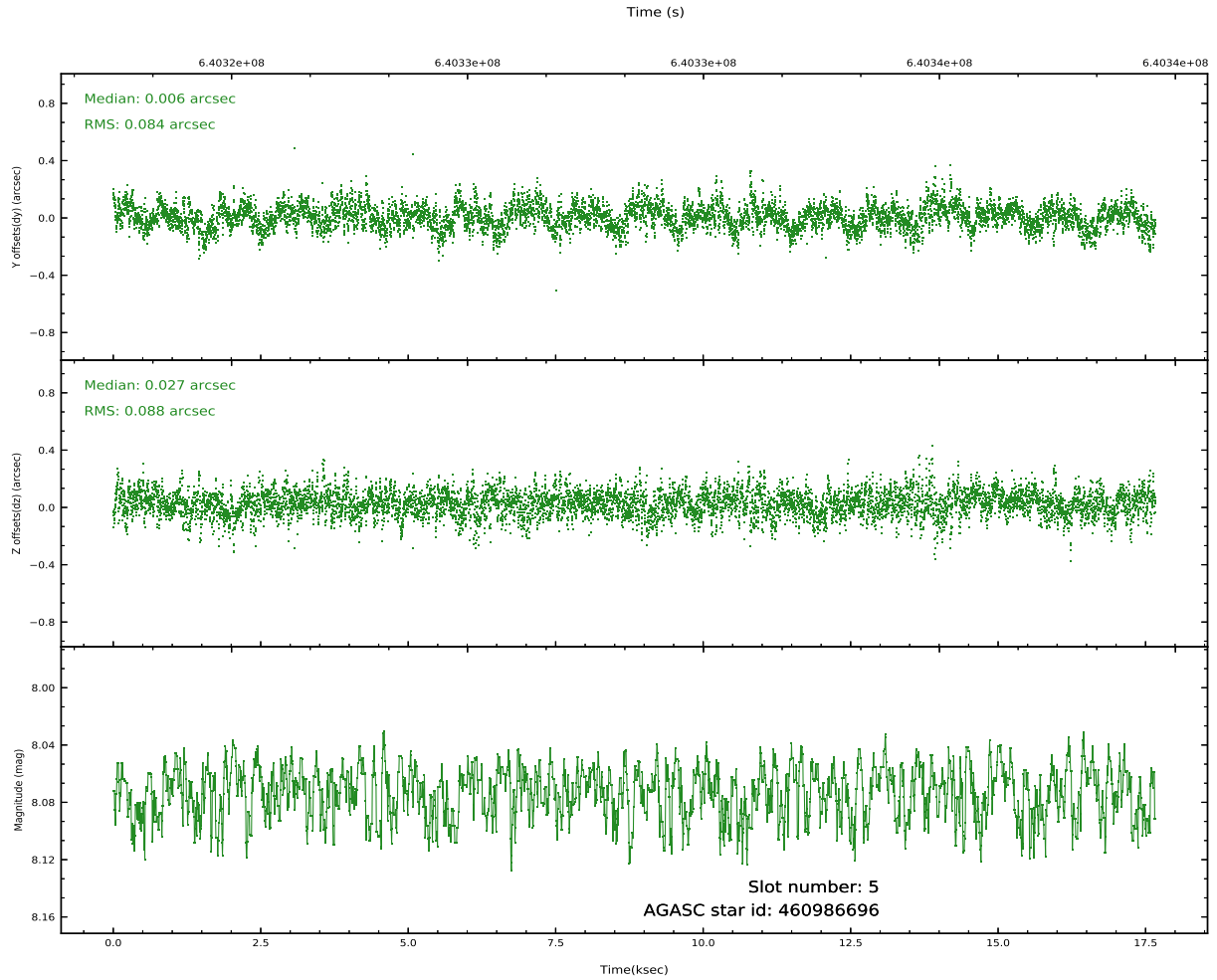
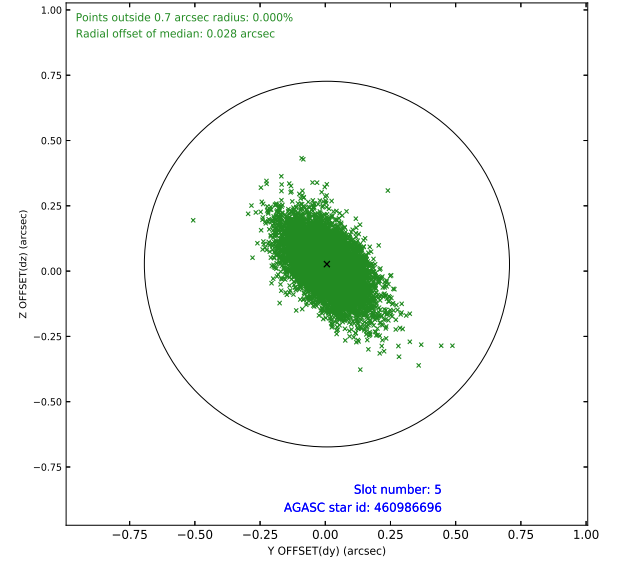
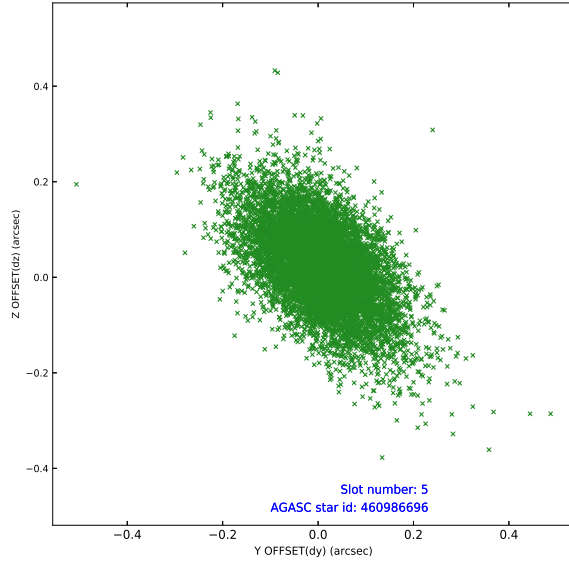
2.4.1 Slot 3



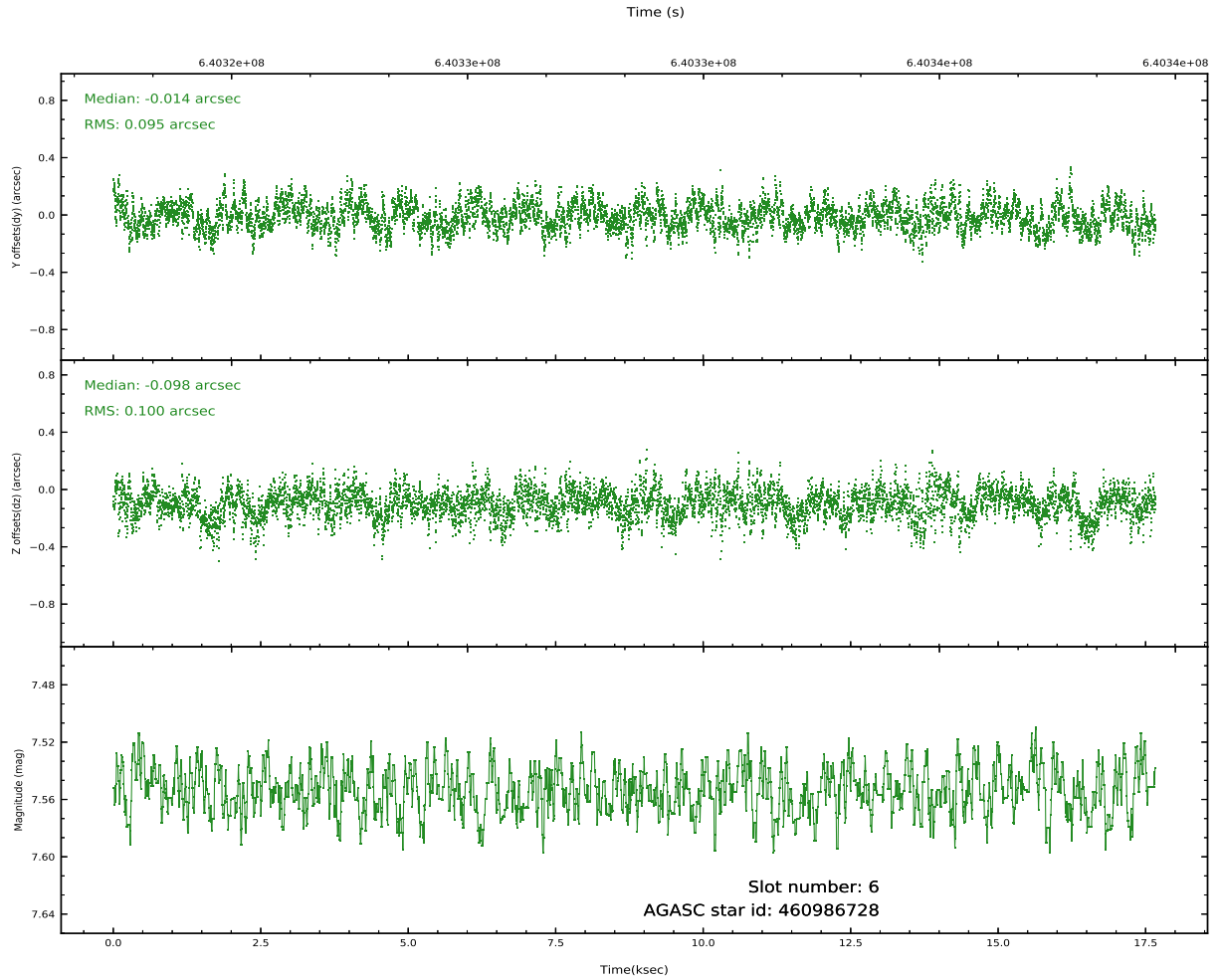
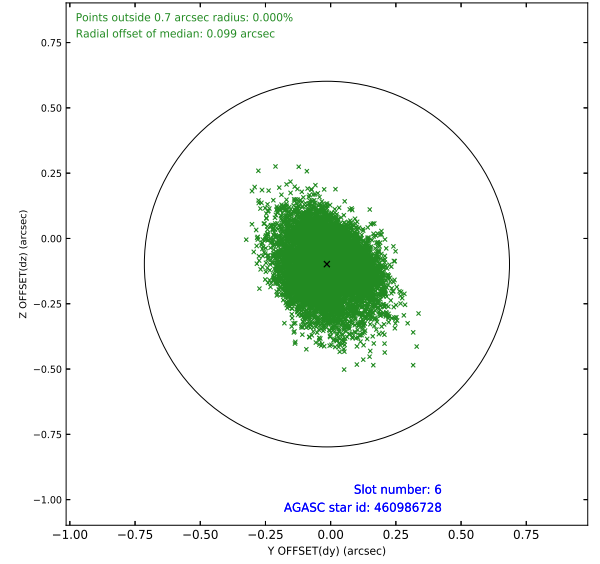
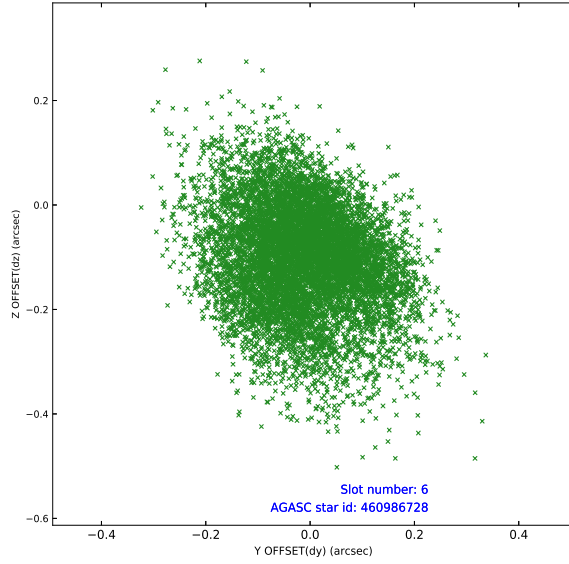
2.4.2 Slot 4



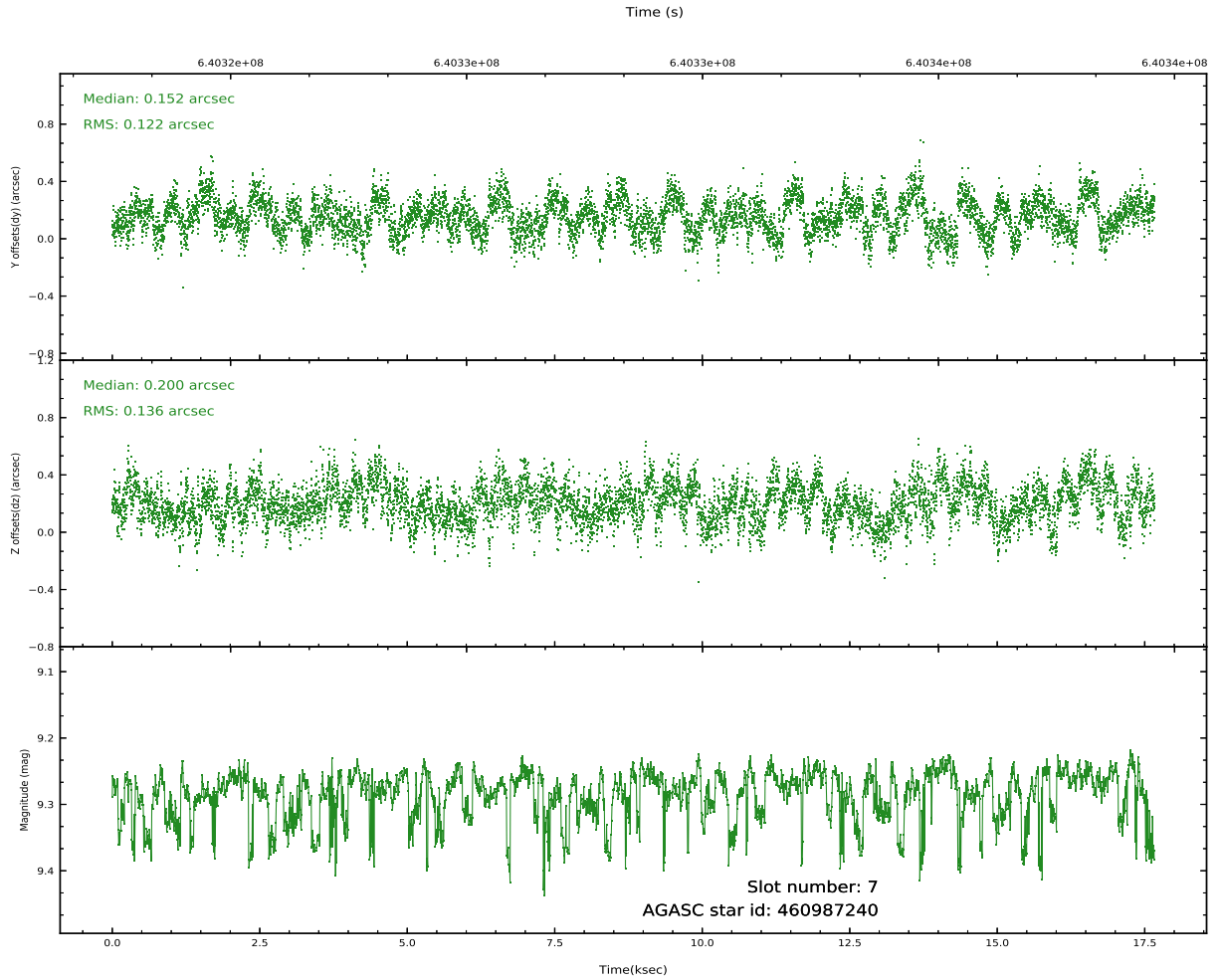
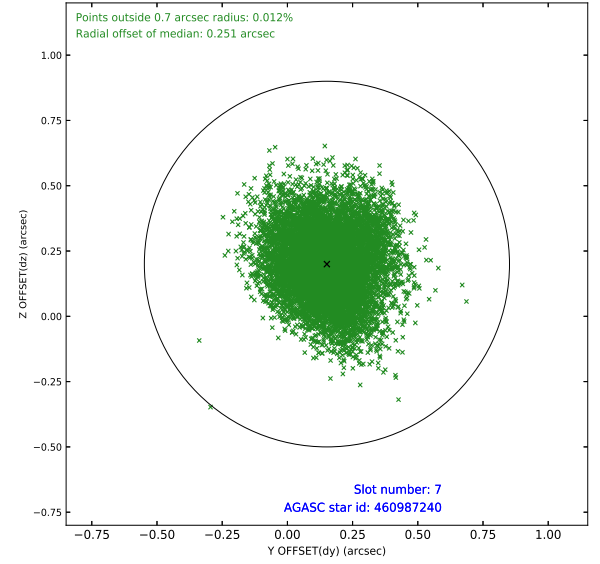
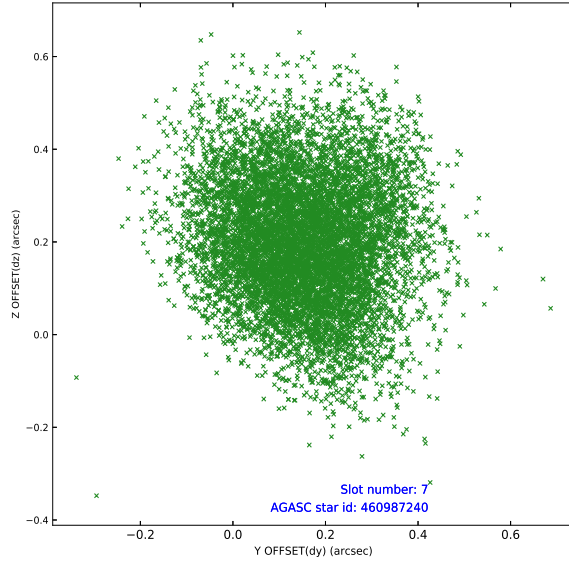
2.4.3 Slot 5



2.4.4 Slot 6

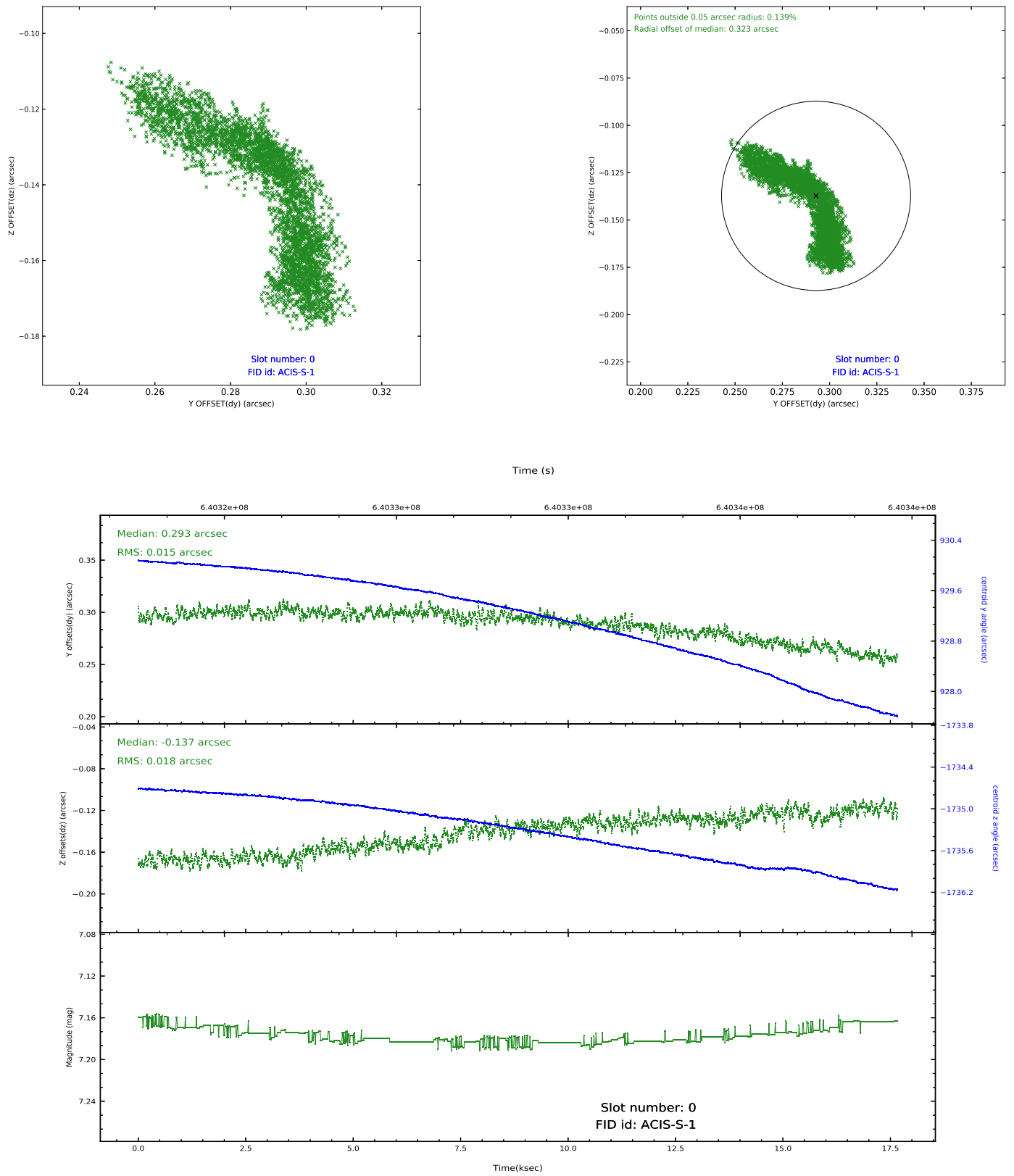


2.4.5 Slot 7

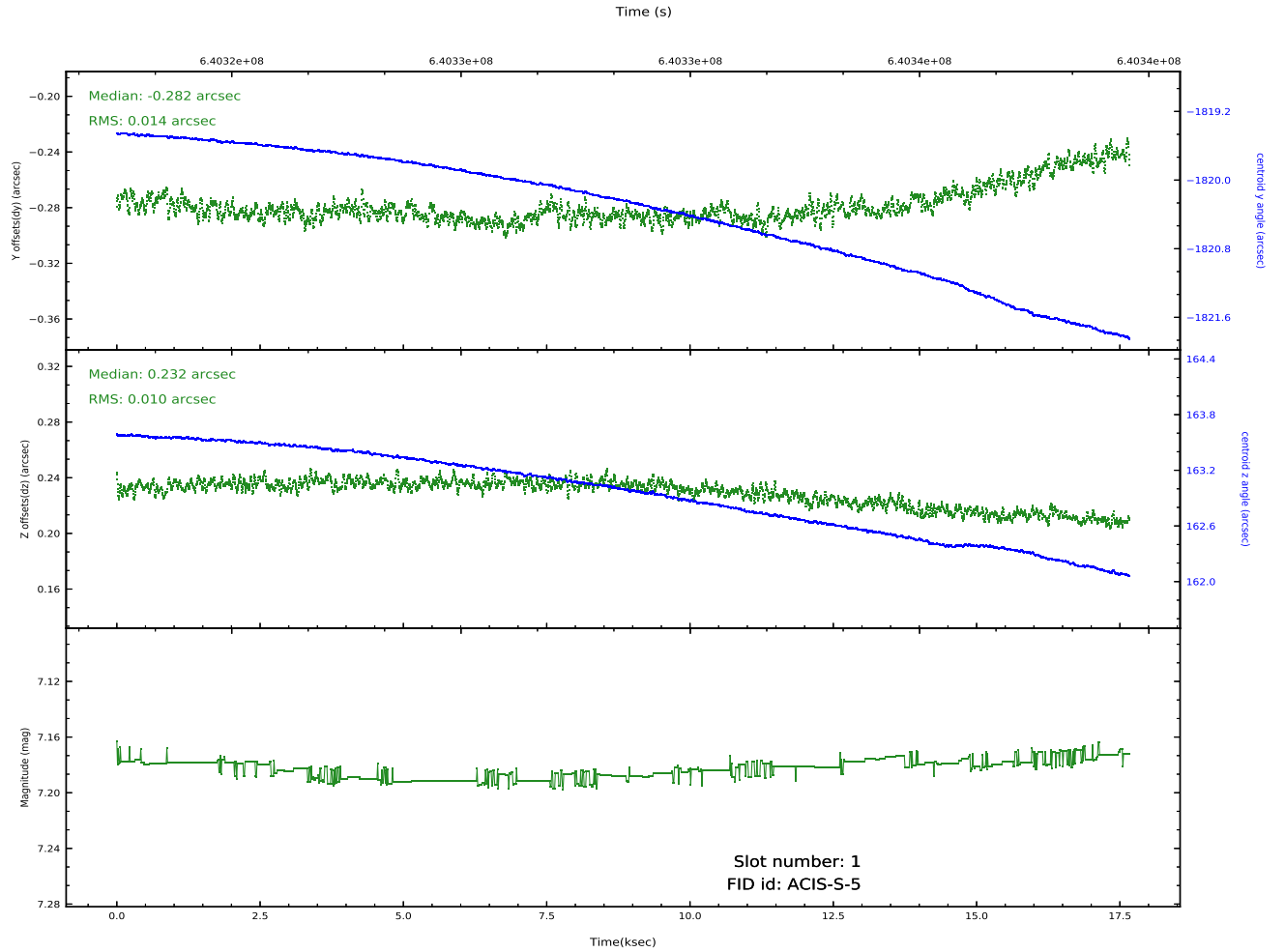
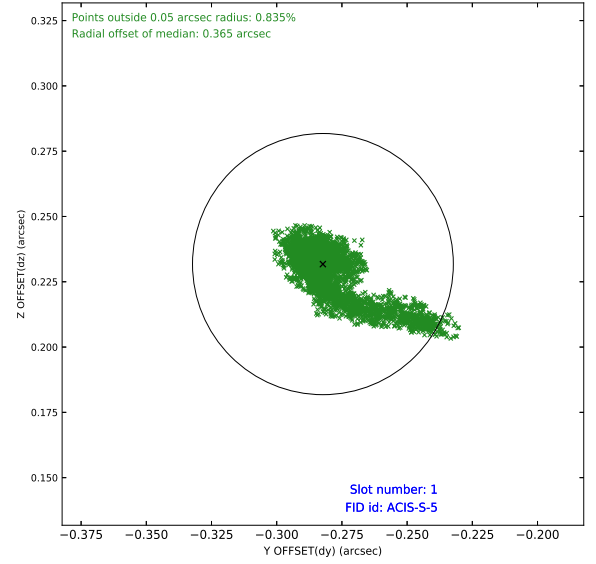
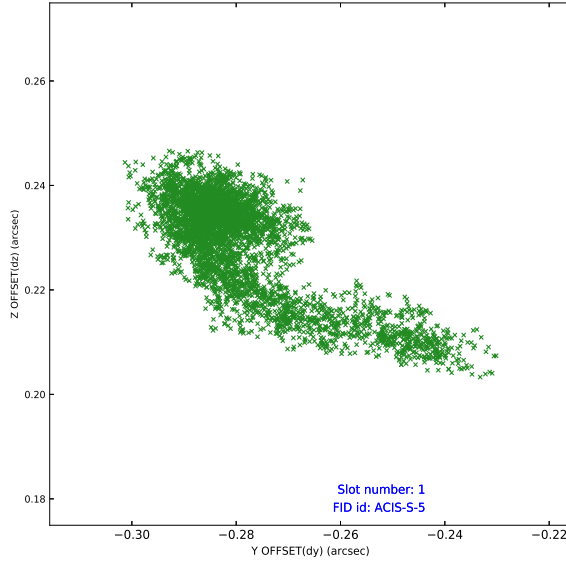


2.5 FID Slots

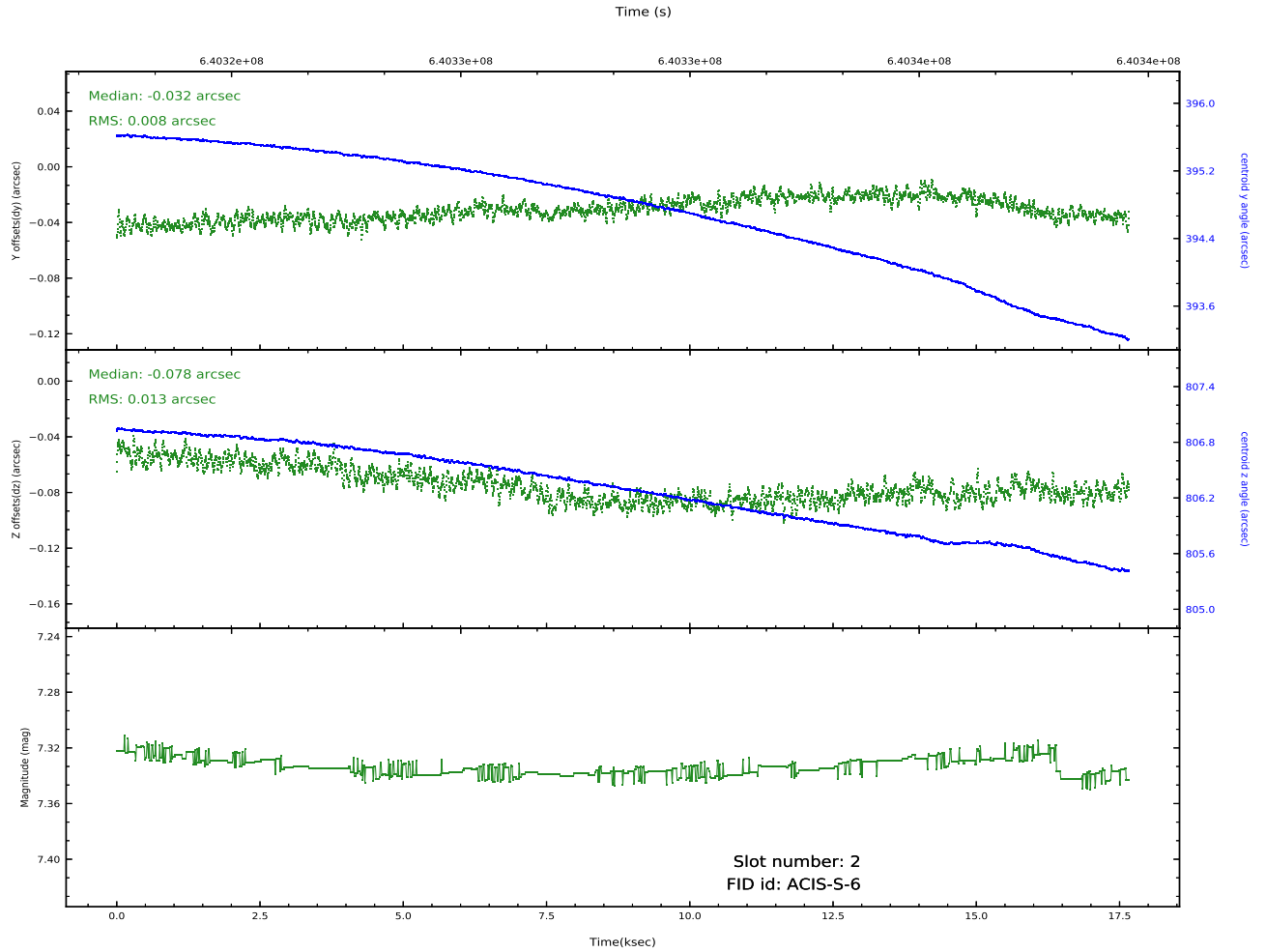
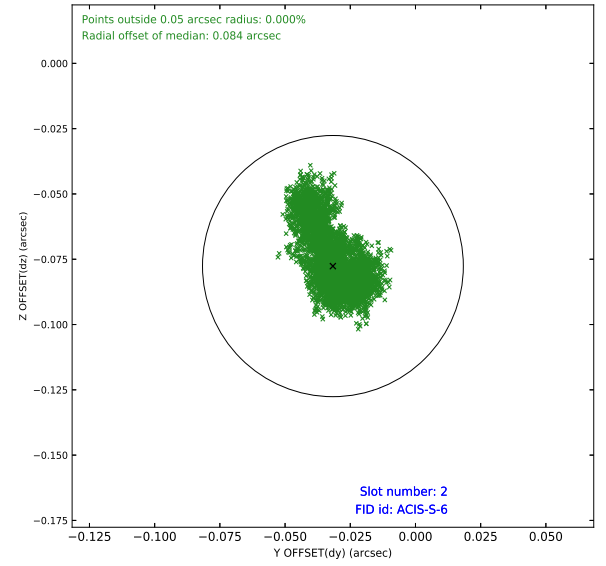
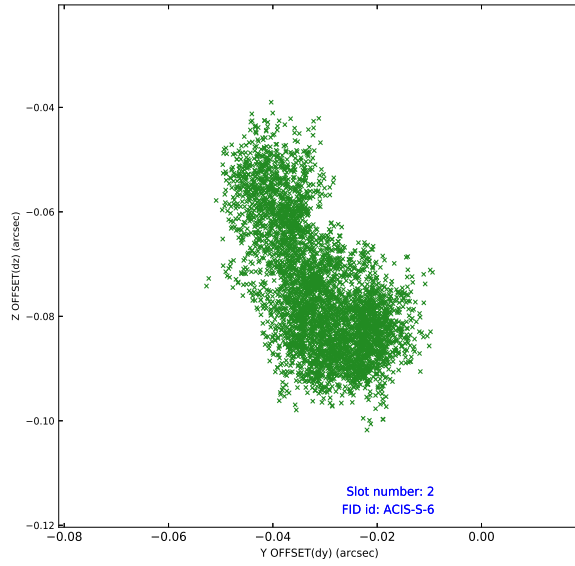
2.5.1 Slot 0



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)	2020.10.26
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	17.568398952723

A.2 Comments