

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20292 - L2 Version 2
Chandra X-Ray Center

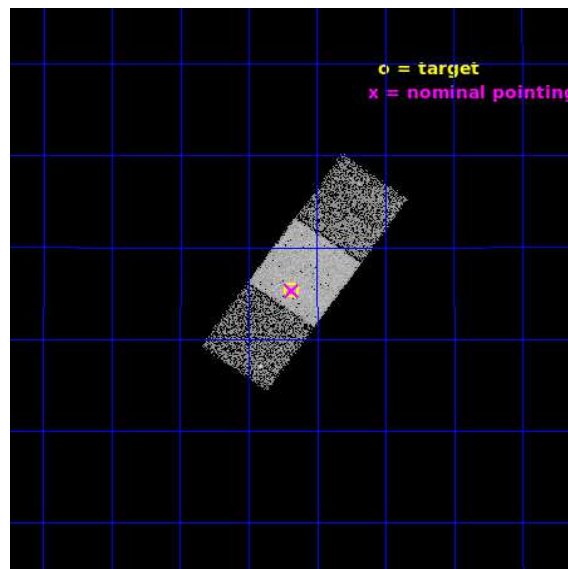
L2 Processing Date : Oct 24 2020

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1 Front

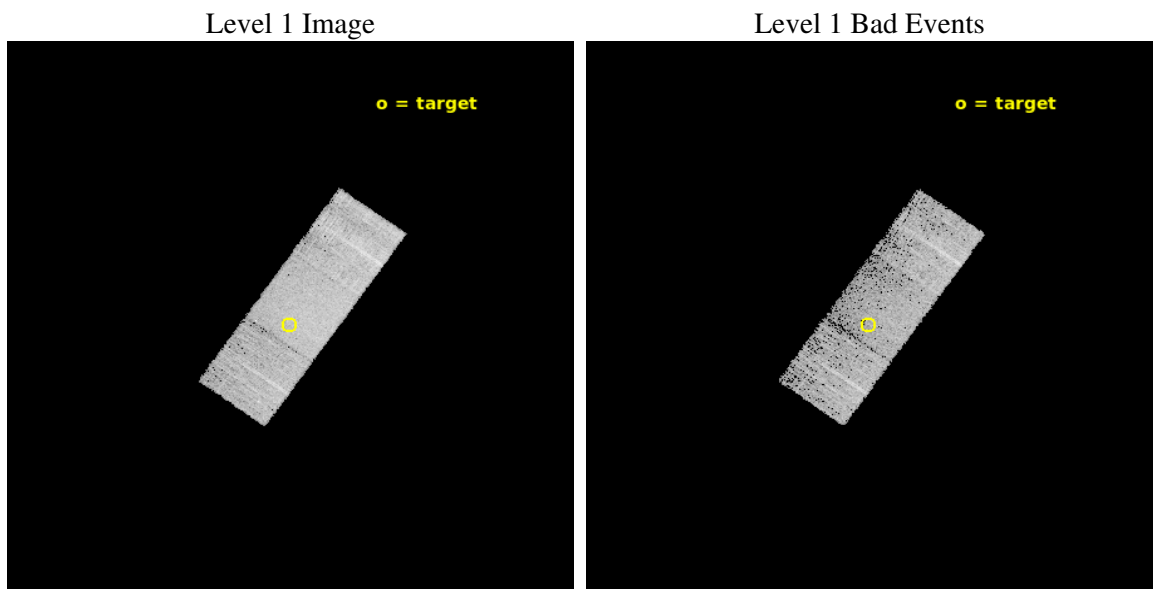
seq_num	502991	Sequence number
obs_id	20292	Observation id
title	Uncovering a new population of soft gamma-ray pulsars with Chandra	
observer	Pablo Saz Parkinson	Principal investigator
object	3FGL J0626.8+1743	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	96.672875	Observer's specified target RA [deg]
dec_targ	17.588806	Observer's specified target Dec [deg]
ra_nom	96.670851352641	Nominal RA [deg]
dec_nom	17.588300534472	Nominal Dec [deg]
roll_nom	305.14218967353	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5111.9000394344	Sum of GTIs [s]
livetime	5045.1093020932	Livetime [s]
ontime6	5111.9000394344	Sum of GTIs [s]
ontime7	5111.9000394344	Sum of GTIs [s]
ontime8	5111.9000394344	Sum of GTIs [s]
l2events	27871	Number of level 2 events



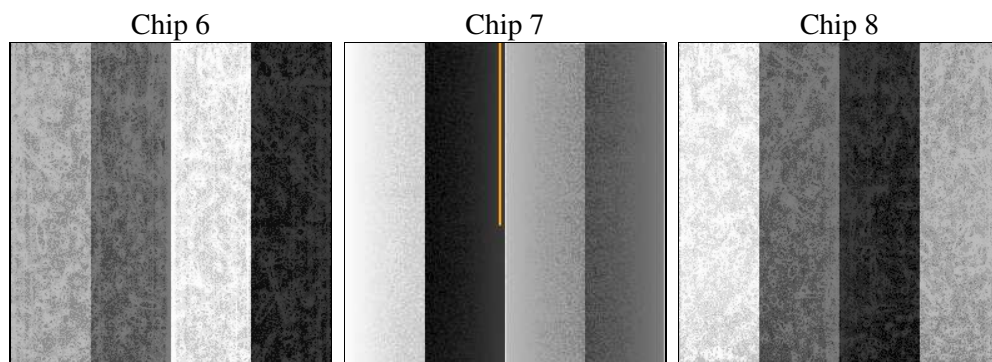
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	5111.9000394344	Sum of GTIs [s]
caldsver	4.9.3	 	ontime6	5111.9000394344	Sum of GTIs [s]
date	2020-10-24T06:21:40	Date and time of file creation	ontime7	5111.9000394344	Sum of GTIs [s]
revision	2	Processing version of data	ontime8	5111.9000394344	Sum of GTIs [s]
			l1events	131757	Number of level 1 events

2.1.4 Events

	ccd 6	ccd 7	ccd 8
level 1 events	35403	46589	49765
rejected events	31051	26127	36044
rejected %	87%	56%	72%

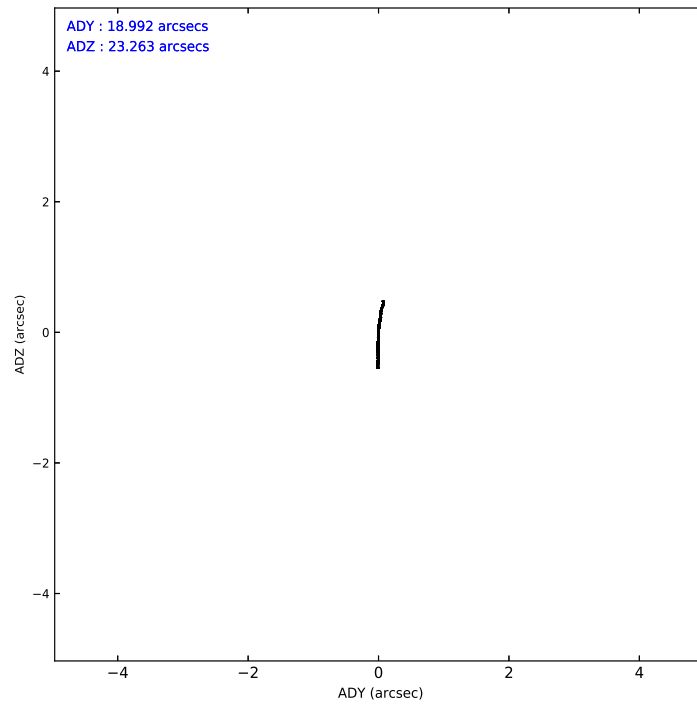
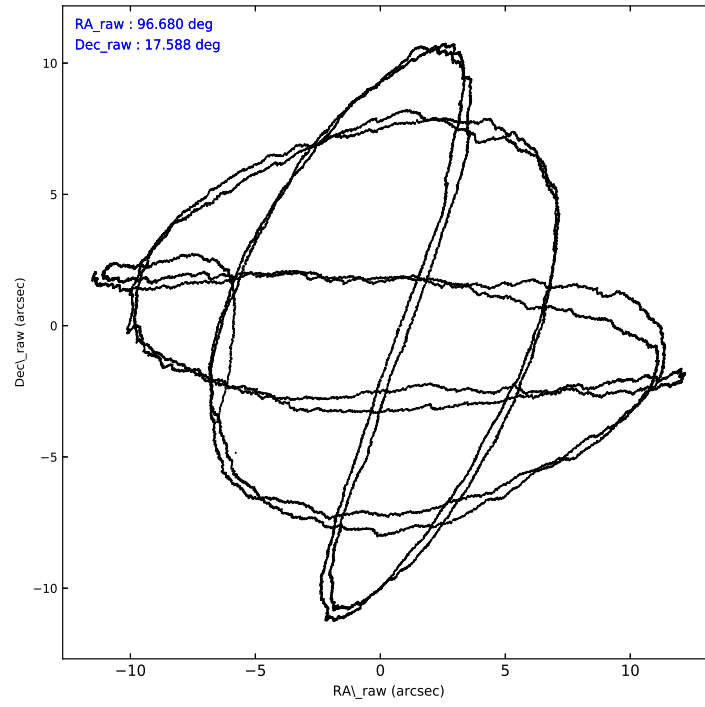
	ccd 6	ccd 7	ccd 8
grade 0 events	1549	1719	4001
	4%	3%	8%
grade 1 events	14	59	46
	0%	0%	0%
grade 2 events	1022	4408	3387
	2%	9%	6%
grade 3 events	431	1637	1330
	1%	3%	2%
grade 4 events	405	1616	1249
	1%	3%	2%
grade 5 events	1829	4679	2605
	5%	10%	5%
grade 6 events	947	11092	3795
	2%	23%	7%
grade 7 events	29206	21379	33352
	82%	45%	67%

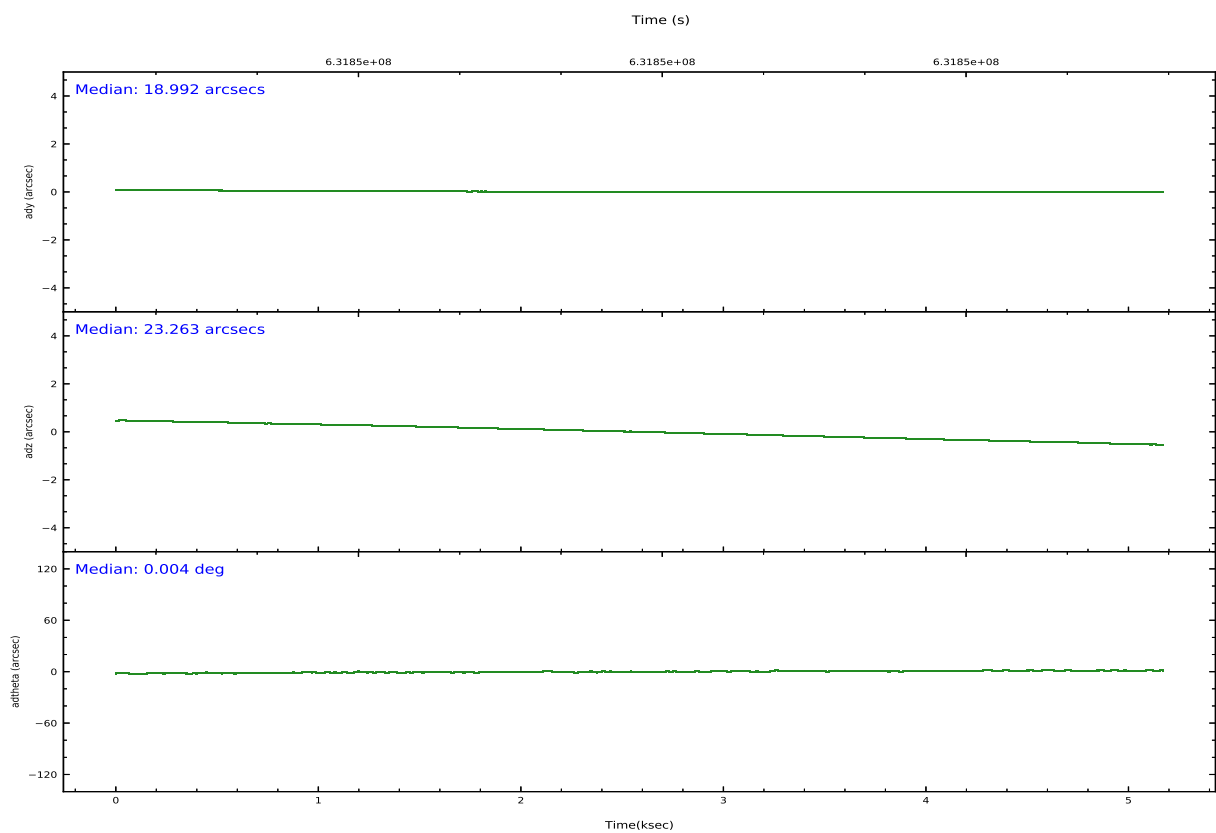
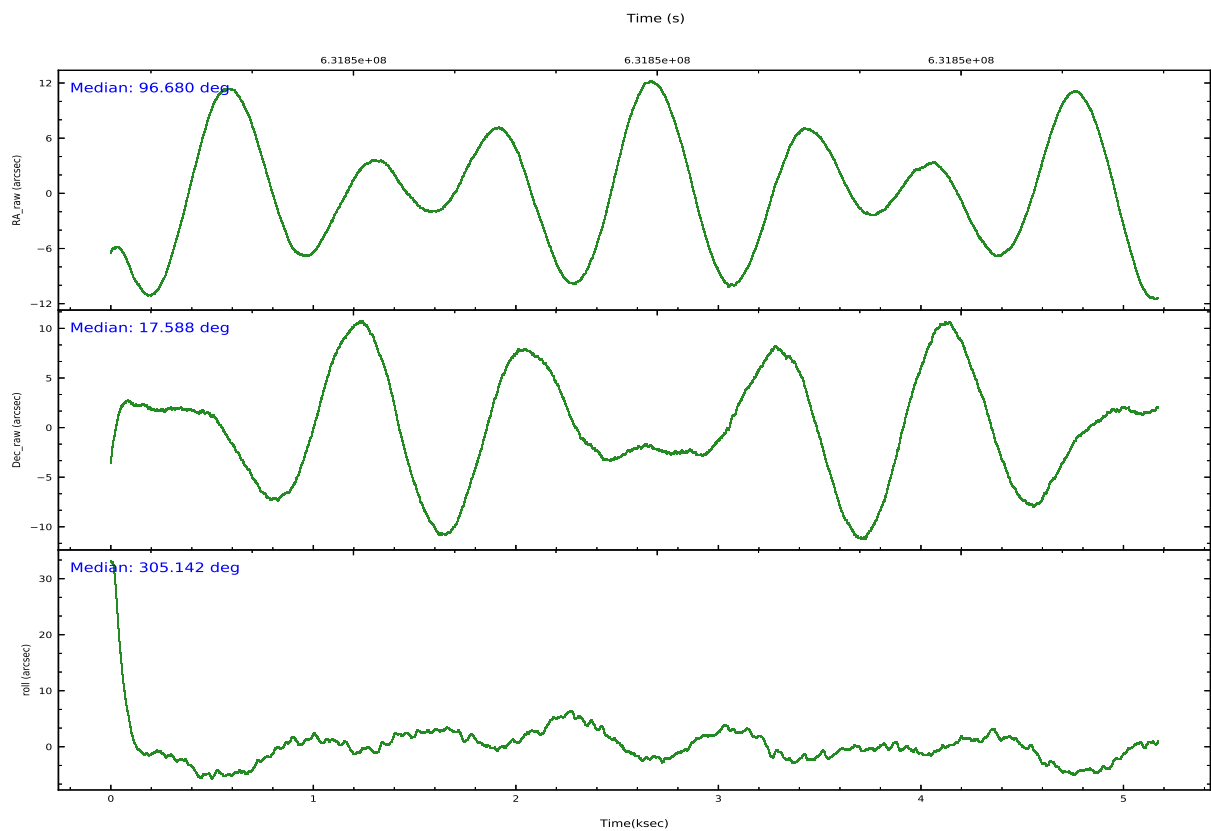
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-678	ACIS-678
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	96.653720	96.67085135264099
[deg] Pointing Dec	17.598803	17.588300534472
[deg] Pointing Roll	305.005791	305.14218967353
[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)	631844974.184000	631843621.18022
Observation start date	2018-01-09T00:28:25	2018-01-09T00:07:01
[s] Observation end time (MET)	631849974.184000	631850918.6681499
Observation end date	2018-01-09T01:51:45	2018-01-09T02:08:38
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar version number	8	8
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.1

2.3 Aspect



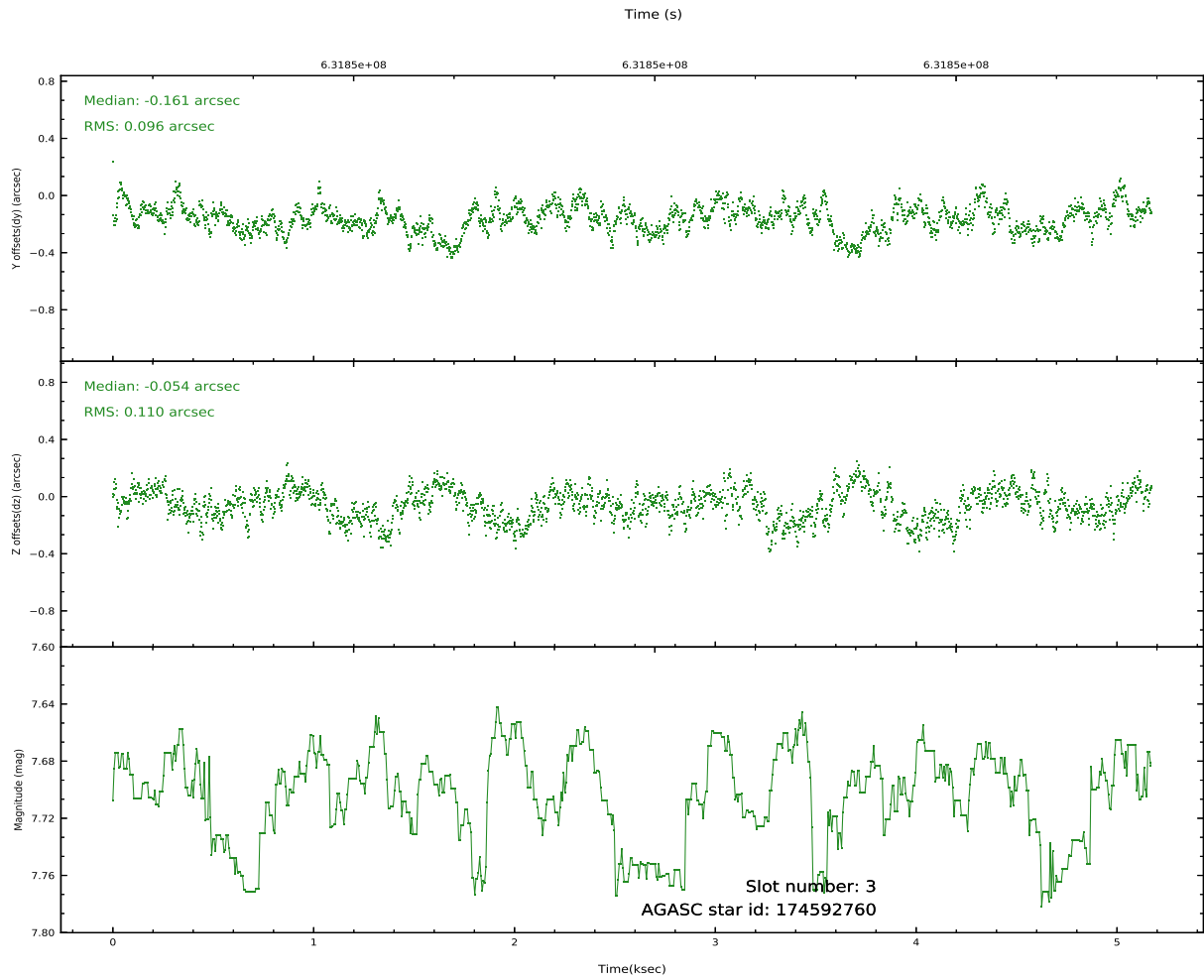
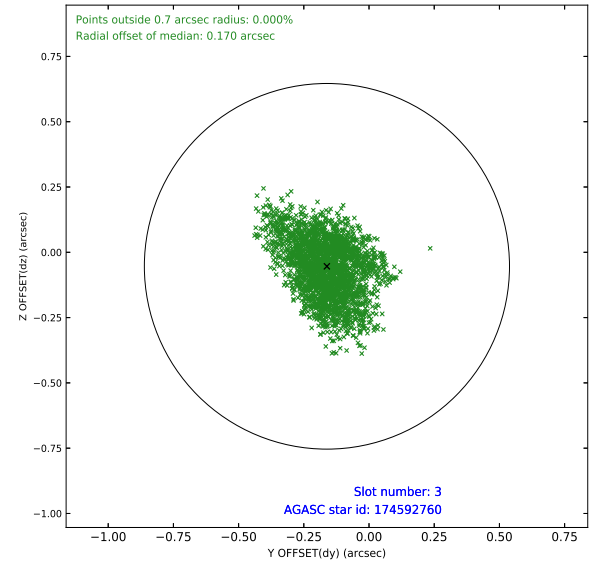
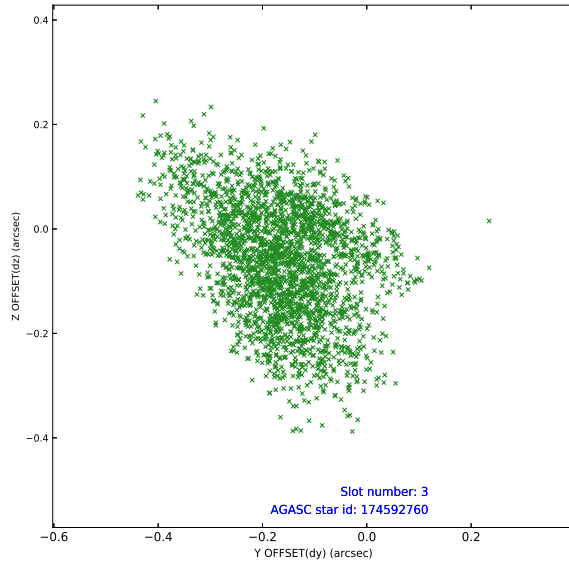


Slot Statistics

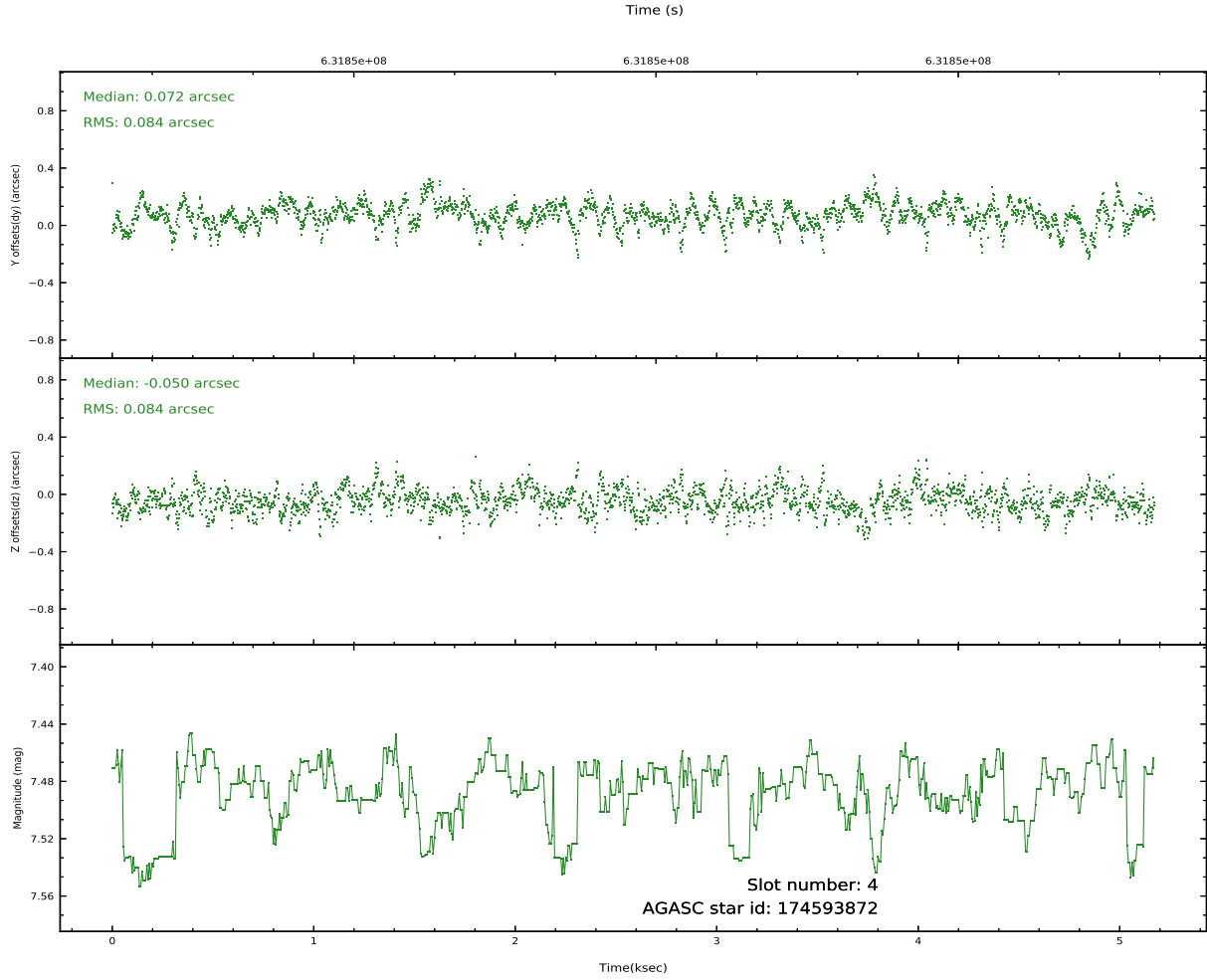
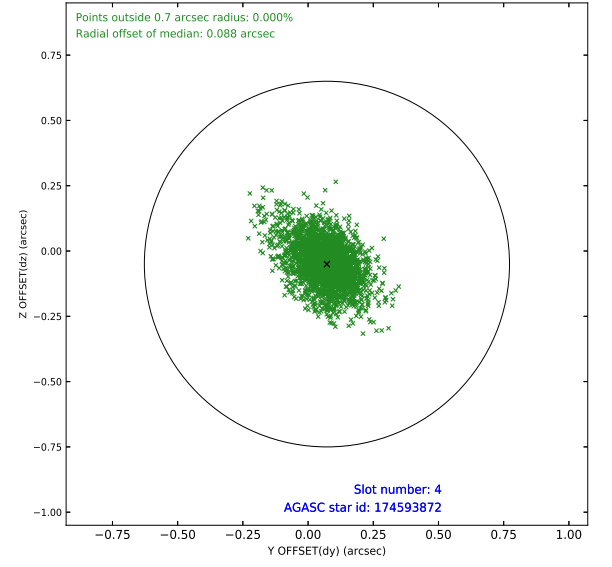
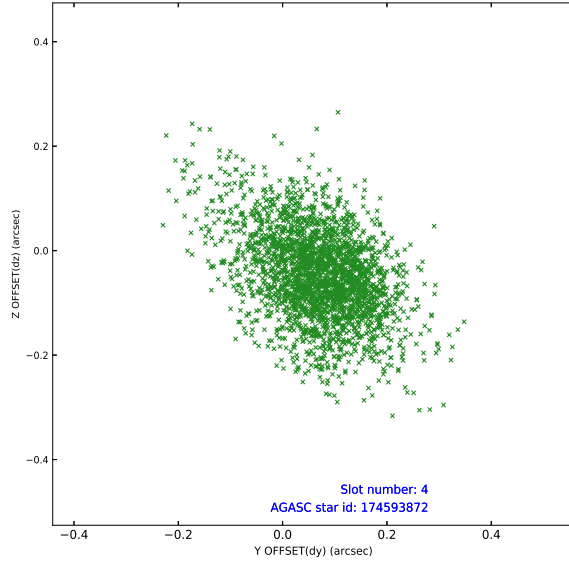
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	6.97	1262	1.000	0.118	-0.100	0.014	0.025	0.000000	0.000000	-772.21	-1744
1	FID		ACIS-S-4	7.07	1262	1.000	0.075	-0.030	0.007	0.012	0.000000	0.000000	2140.74	162
2	FID		ACIS-S-5	7.06	1262	1.000	-0.222	0.140	0.014	0.024	0.000000	0.000000	-1823.64	157
3	GUIDE	used	174592760	7.70	2524	1.000	-0.161	-0.054	0.154	0.253	97.265401	17.745227	769.98	2019
4	GUIDE	used	174593872	7.48	2524	1.000	0.072	-0.050	0.120	0.216	96.273808	16.994693	1031.35	-2316
5	GUIDE	used	174594976	8.59	2521	1.000	-0.001	-0.022	0.184	0.277	96.499356	17.195805	884.93	-1267
6	GUIDE	used	174598400	7.66	2524	1.000	-0.033	0.126	0.114	0.197	96.919253	18.223854	-1322.62	2034
7	GUIDE	used	174596992	7.95	2523	1.000	0.117	-0.013	0.112	0.192	97.457838	17.624152	1503.31	2316

2.4 Star Slots

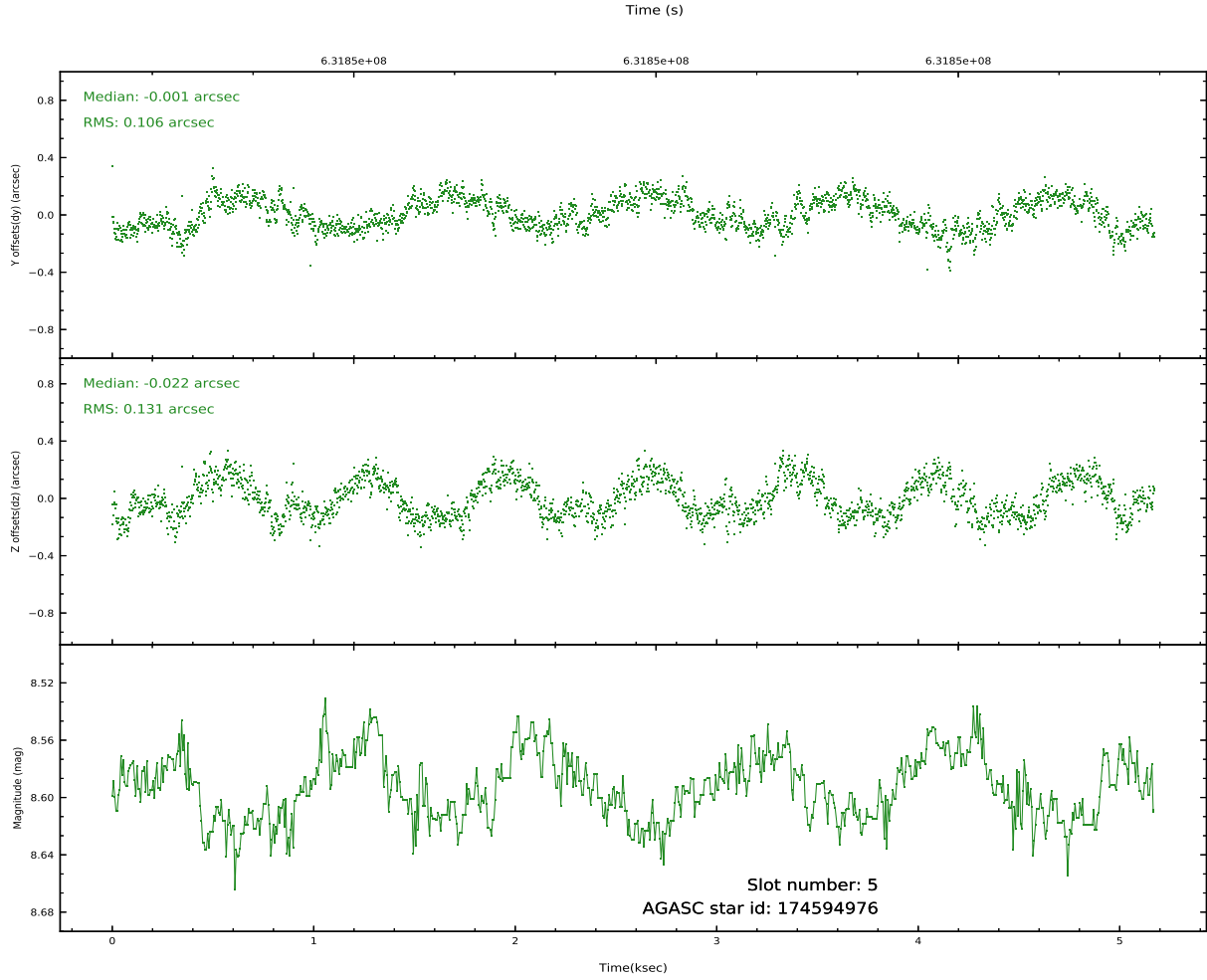
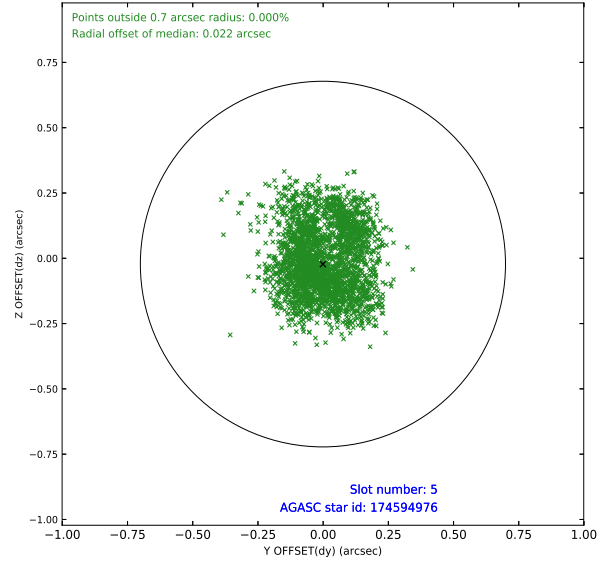
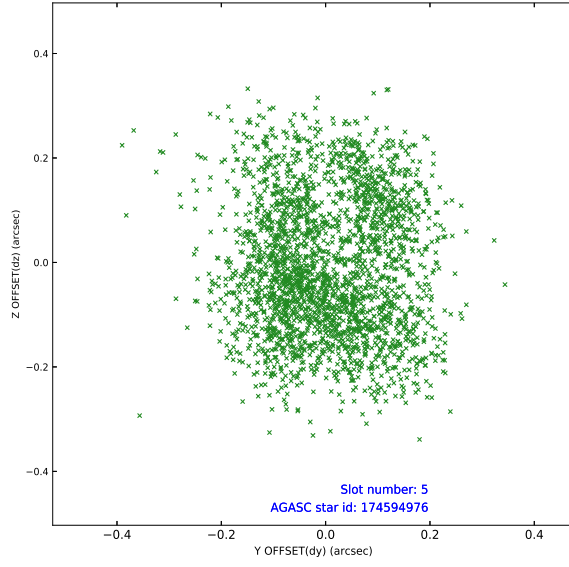
2.4.1 Slot 3



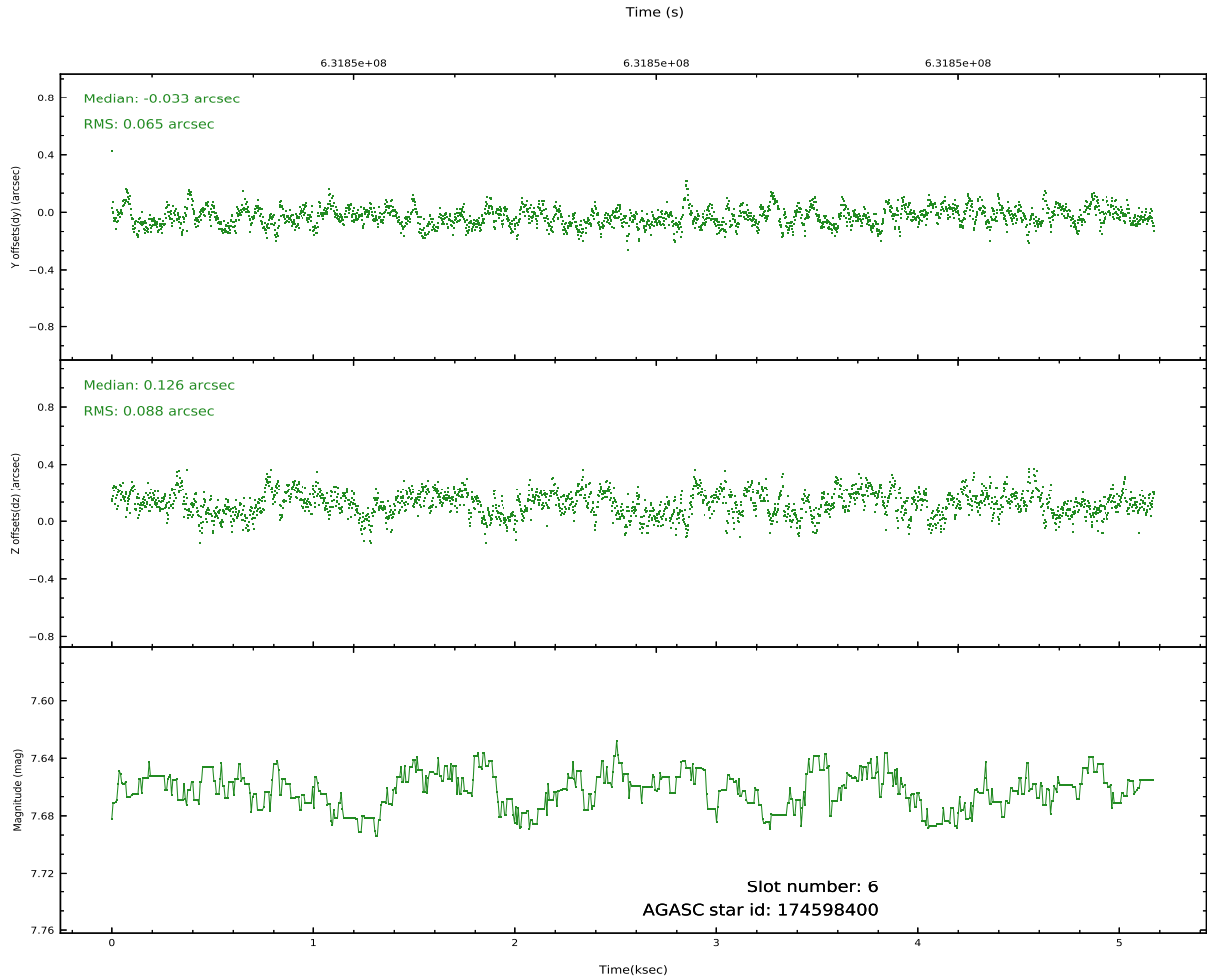
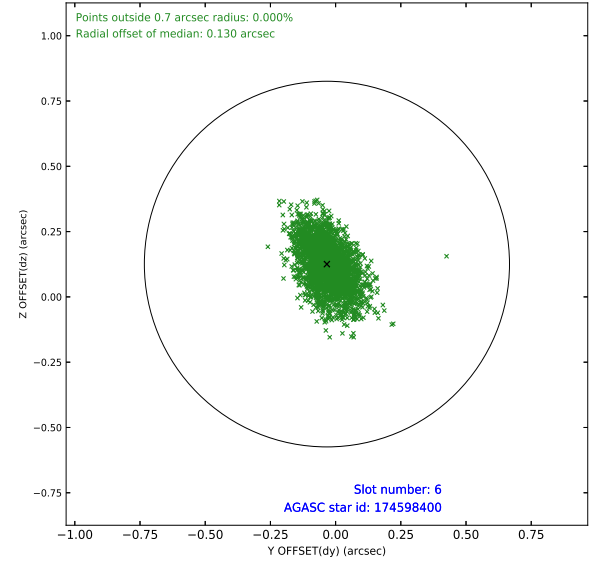
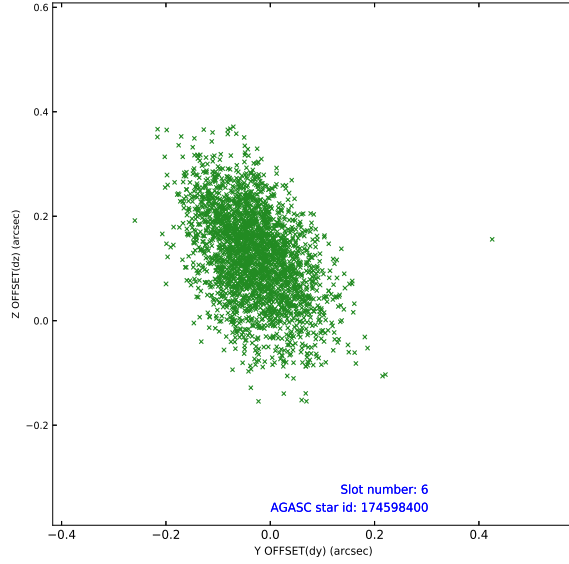
2.4.2 Slot 4



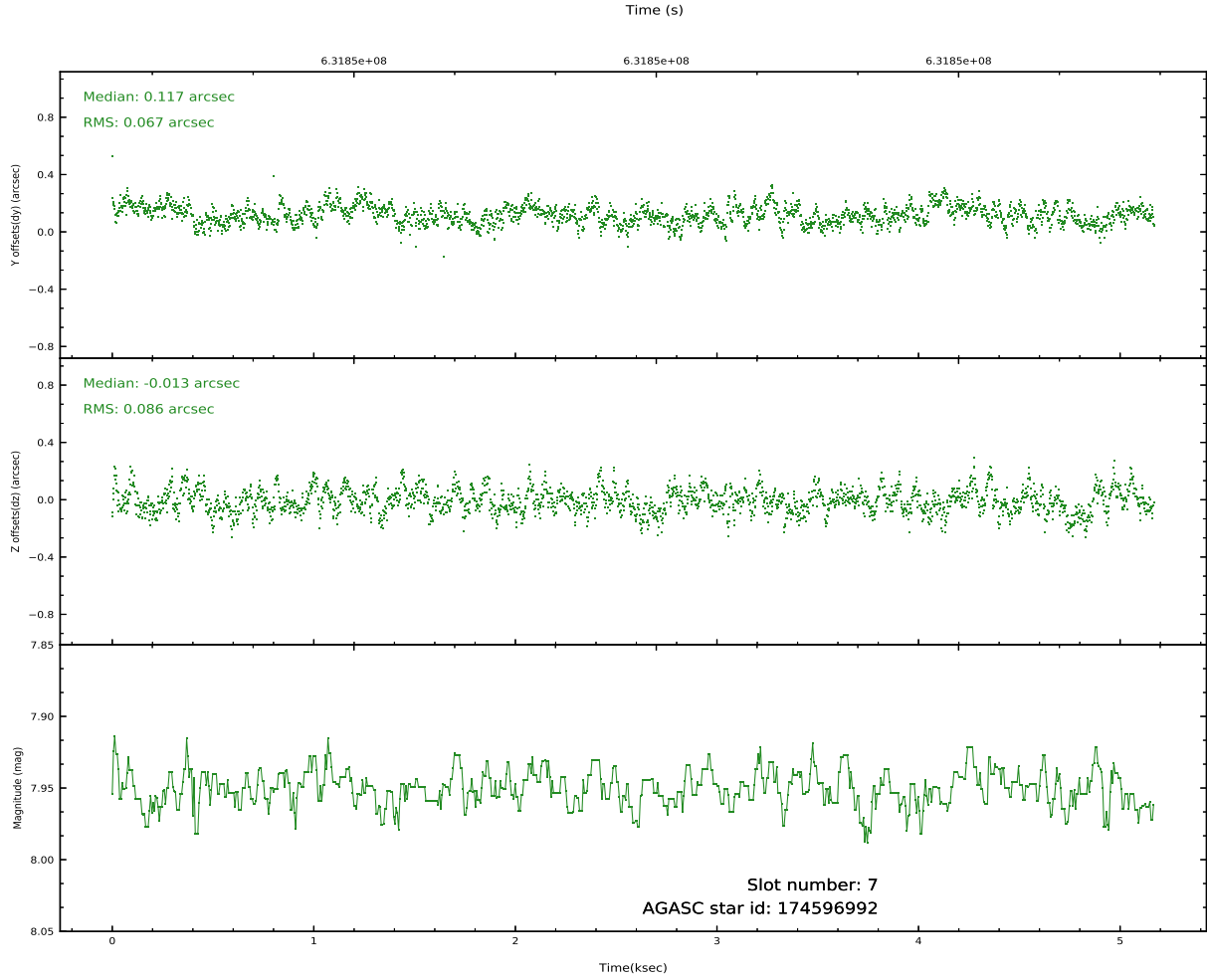
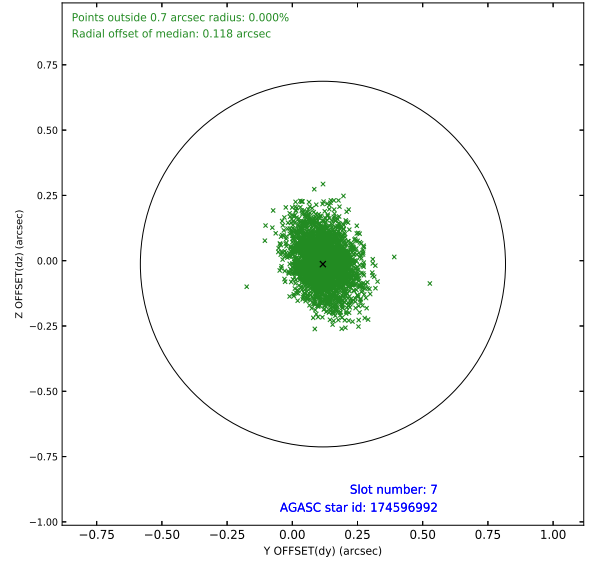
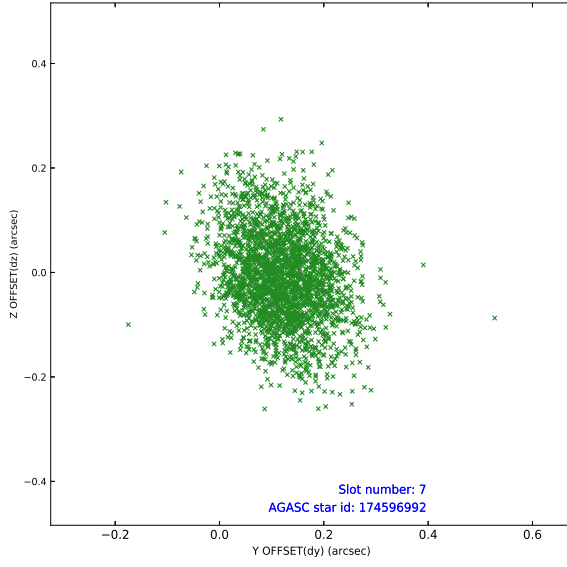
2.4.3 Slot 5



2.4.4 Slot 6

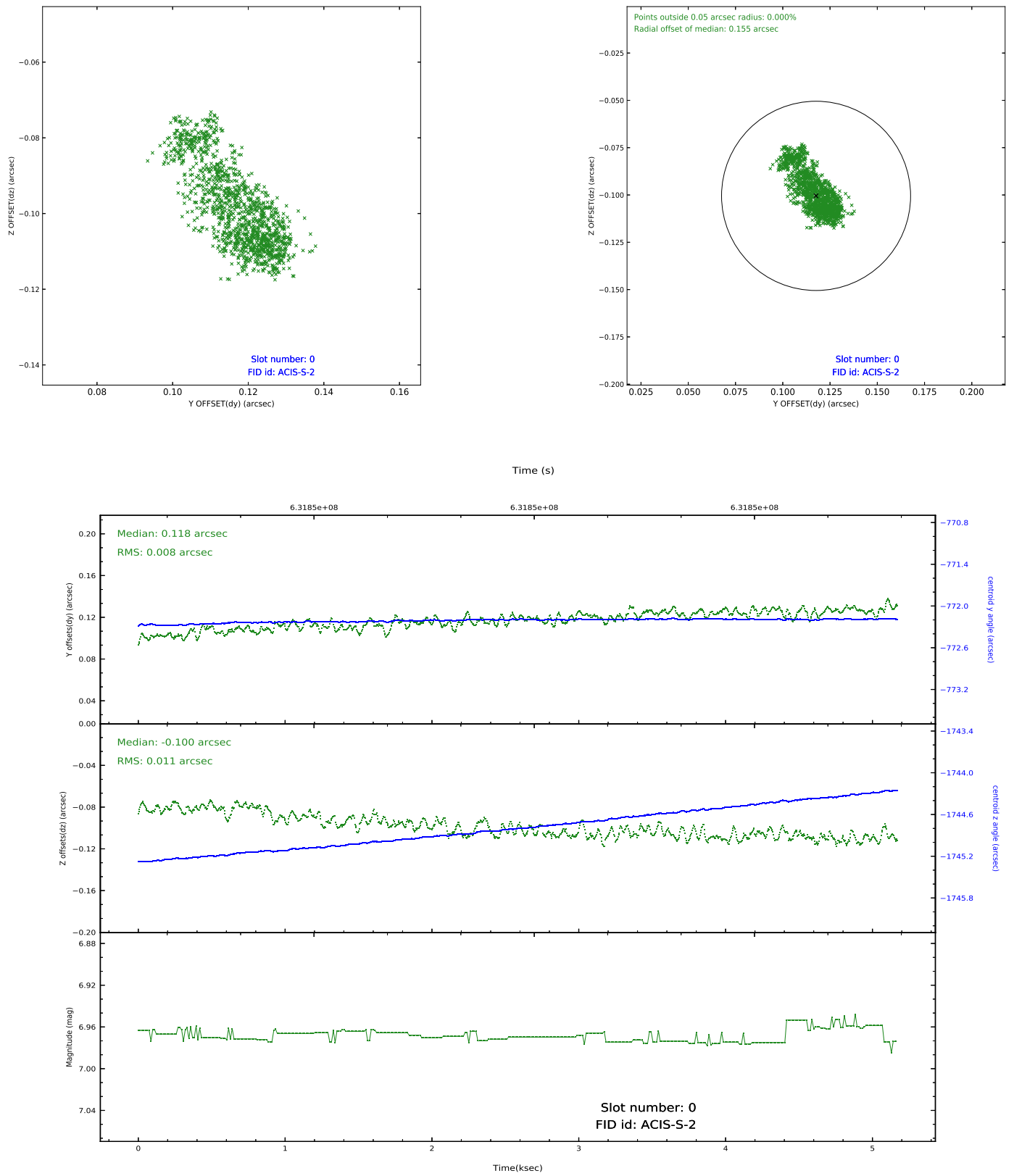


2.4.5 Slot 7

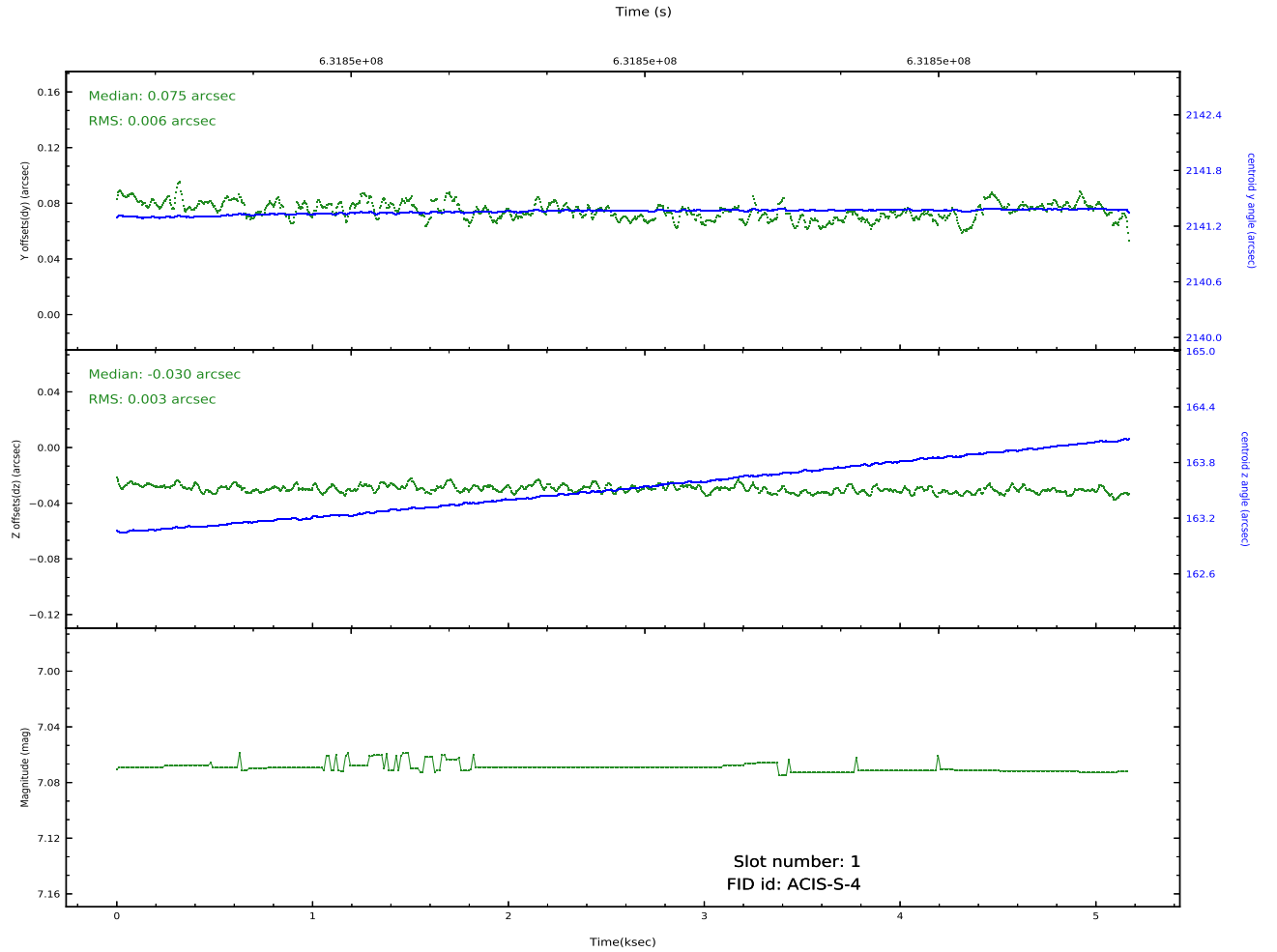
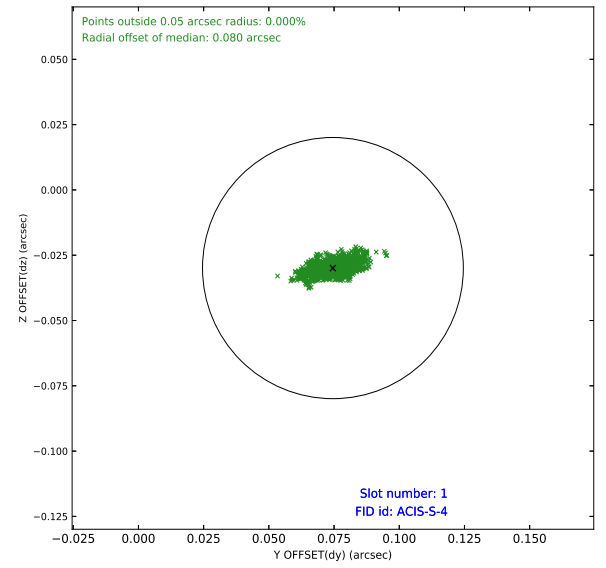
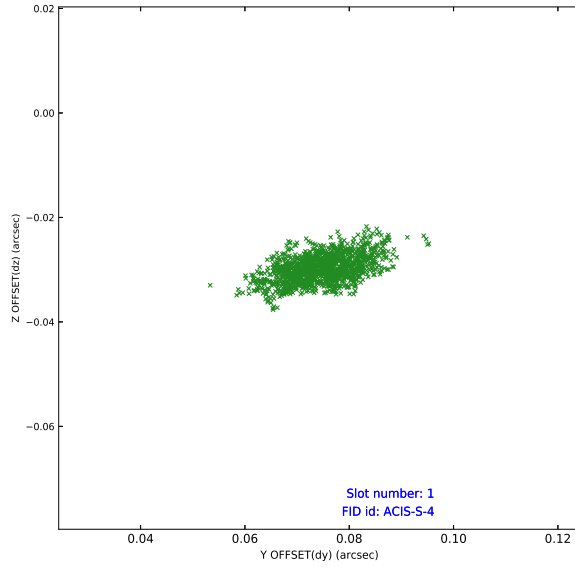


2.5 FID Slots

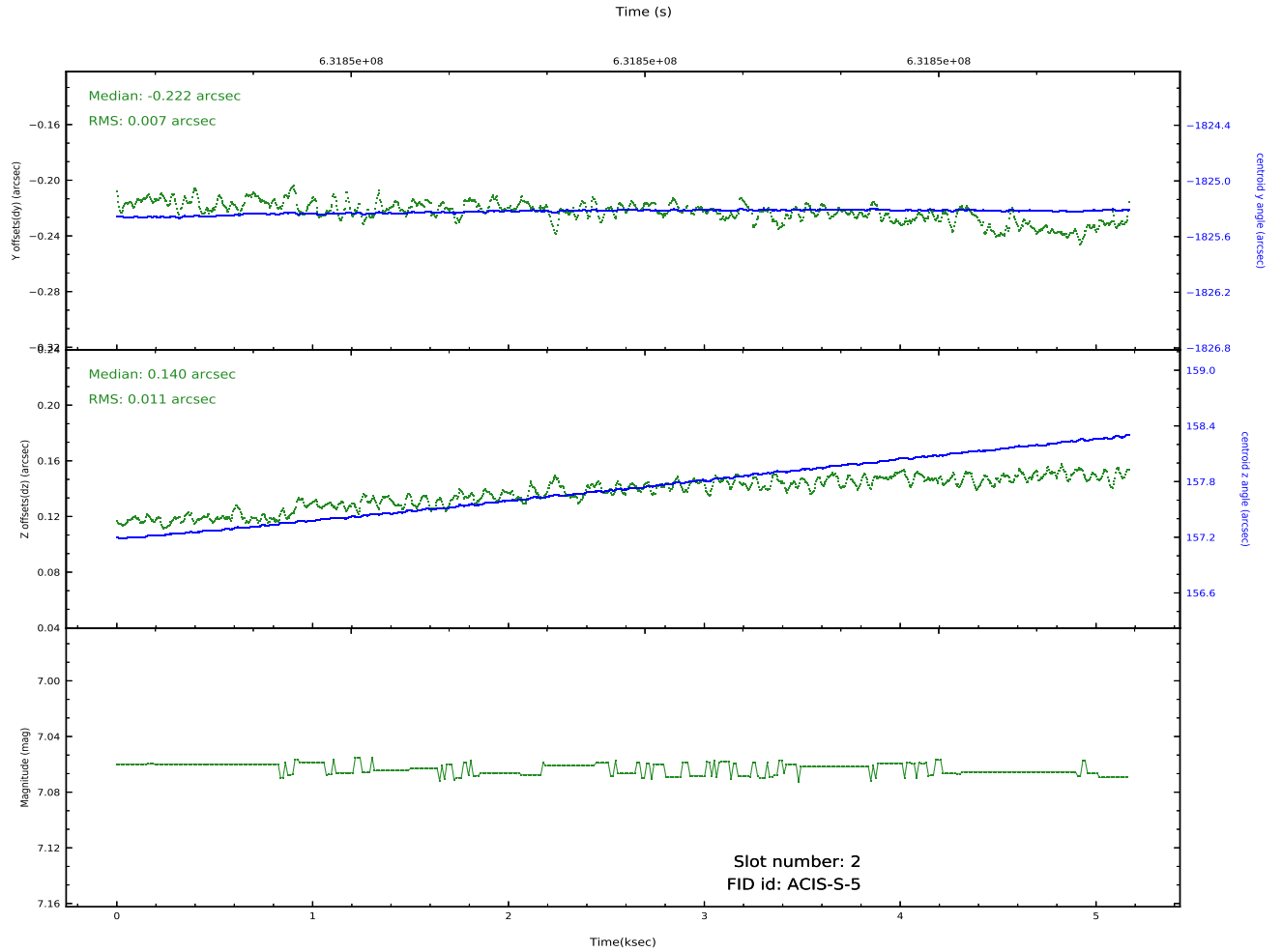
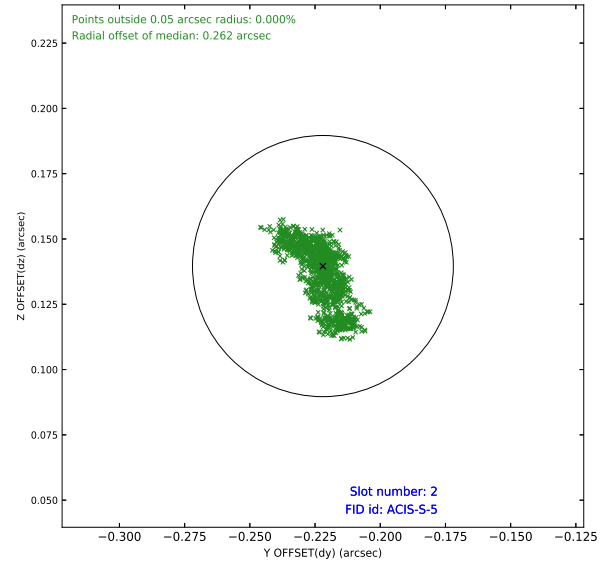
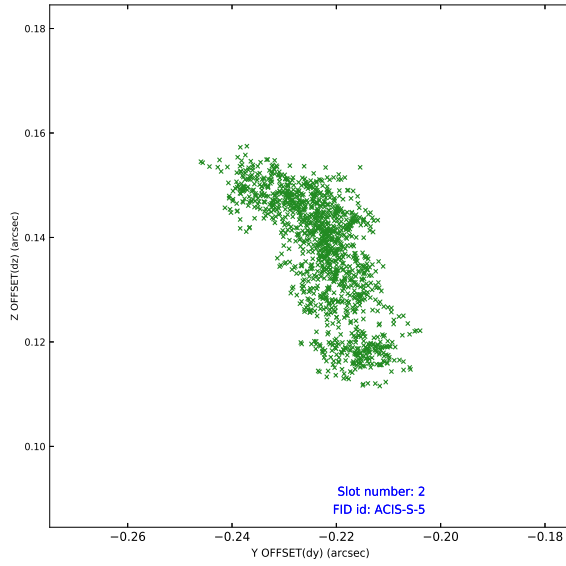
2.5.1 Slot 0



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)	2020.10.25
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.1119000394344

A.2 Comments