

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20297 - L2 Version 2
Chandra X-Ray Center

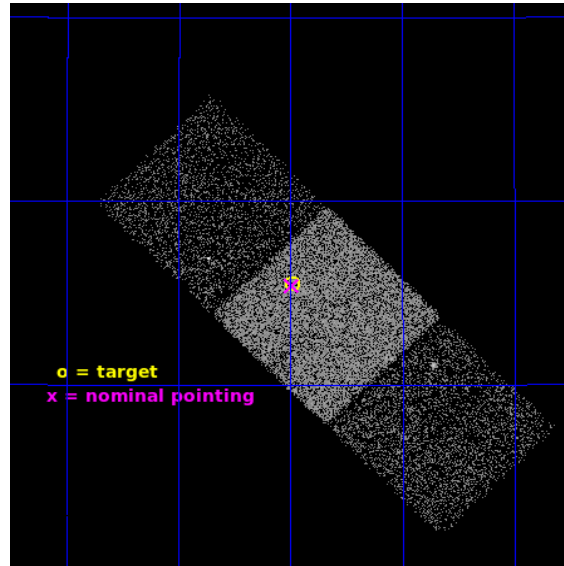
L2 Processing Date : Oct 24 2020

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1 Front

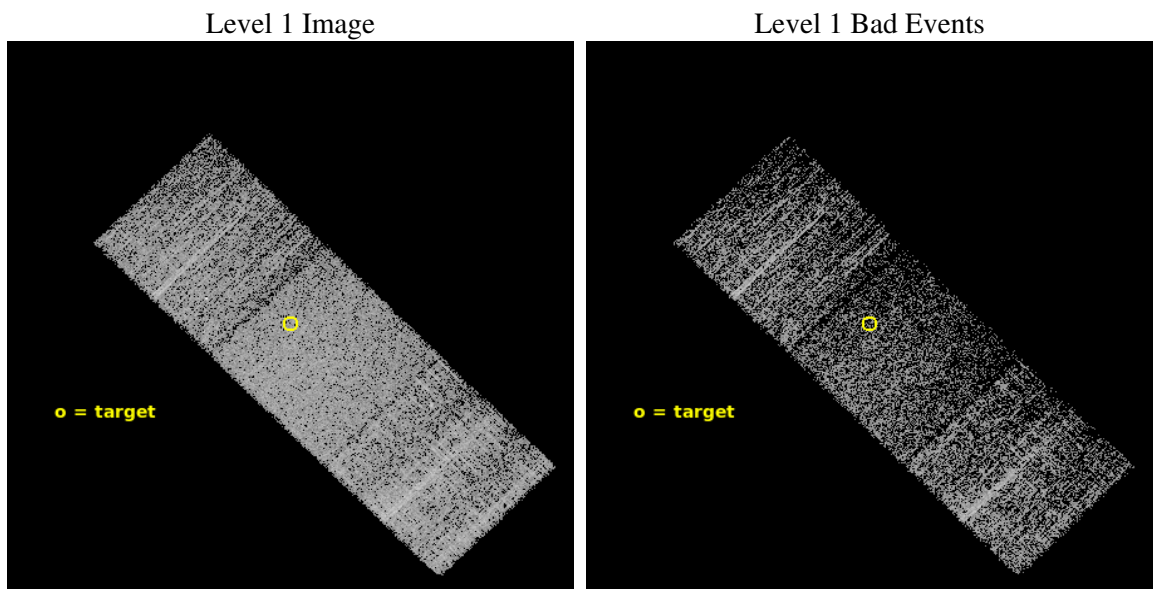
seq_num	502996	Sequence number
obs_id	20297	Observation id
title	Uncovering a new population of soft gamma-ray pulsars with Chandra	
observer	Pablo Saz Parkinson	Principal investigator
object	3FGL J1958.6+3844	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	299.747708	Observer's specified target RA [deg]
dec_targ	38.75825	Observer's specified target Dec [deg]
ra_nom	299.74840735992	Nominal RA [deg]
dec_nom	38.75651117841	Nominal Dec [deg]
roll_nom	45.251580620481	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5111.3583605289	Sum of GTIs [s]
livetime	5044.5747006214	Livetime [s]
ontime6	5111.3173205853	Sum of GTIs [s]
ontime7	5111.3583605289	Sum of GTIs [s]
ontime8	5111.2762805223	Sum of GTIs [s]
l2events	29326	Number of level 2 events



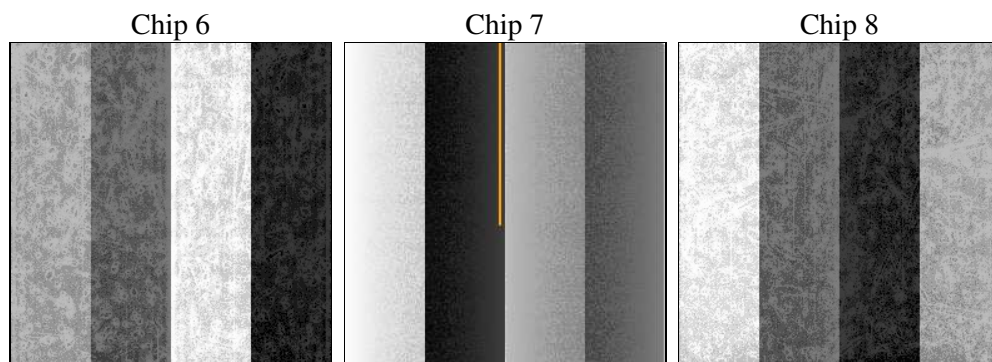
2 OBI

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	5111.3583605289	Sum of GTIs [s]
caldbver	4.9.3	 	ontime6	5111.3173205853	Sum of GTIs [s]
date	2020-10-24T18:43:05	Date and time of file creation	ontime7	5111.3583605289	Sum of GTIs [s]
revision	2	Processing version of data	ontime8	5111.2762805223	Sum of GTIs [s]
			l1events	133957	Number of level 1 events

2.1.4 Events

	ccd 6	ccd 7	ccd 8
level 1 events	36472	47360	50125
rejected events	32075	26155	35807
rejected %	87%	55%	71%

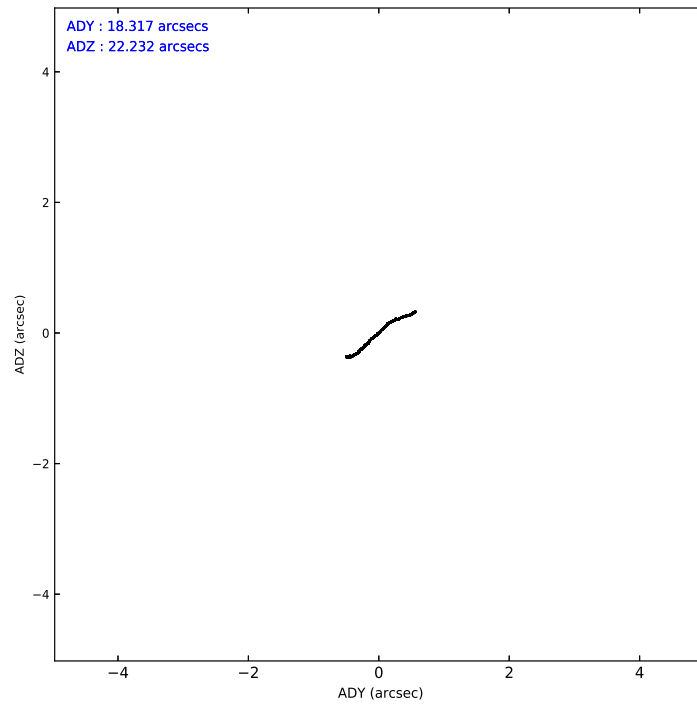
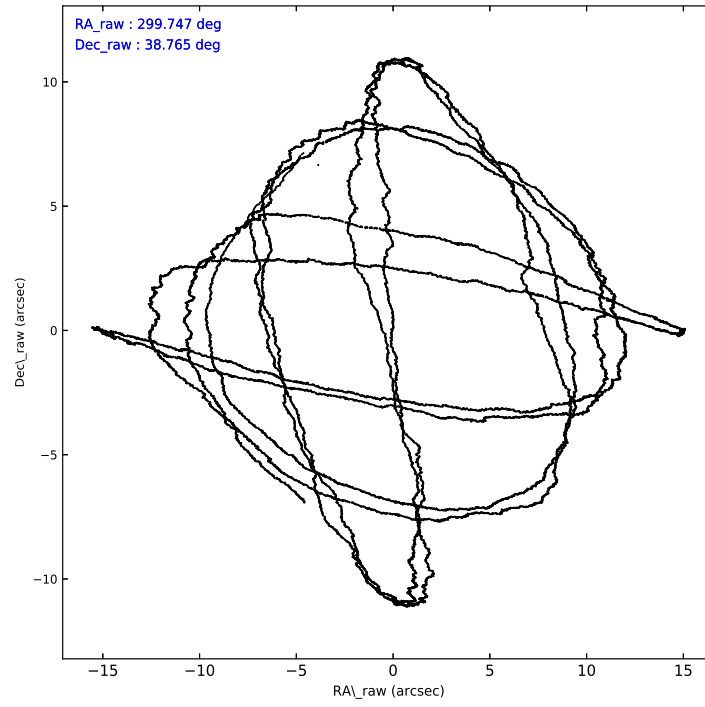
	ccd 6	ccd 7	ccd 8
grade 0 events	1548	1885	4265
	4%	3%	8%
grade 1 events	14	66	38
	0%	0%	0%
grade 2 events	1009	4592	3519
	2%	9%	7%
grade 3 events	413	1759	1371
	1%	3%	2%
grade 4 events	418	1752	1367
	1%	3%	2%
grade 5 events	1785	4886	2619
	4%	10%	5%
grade 6 events	1013	11242	3804
	2%	23%	7%
grade 7 events	30272	21178	33142
	83%	44%	66%

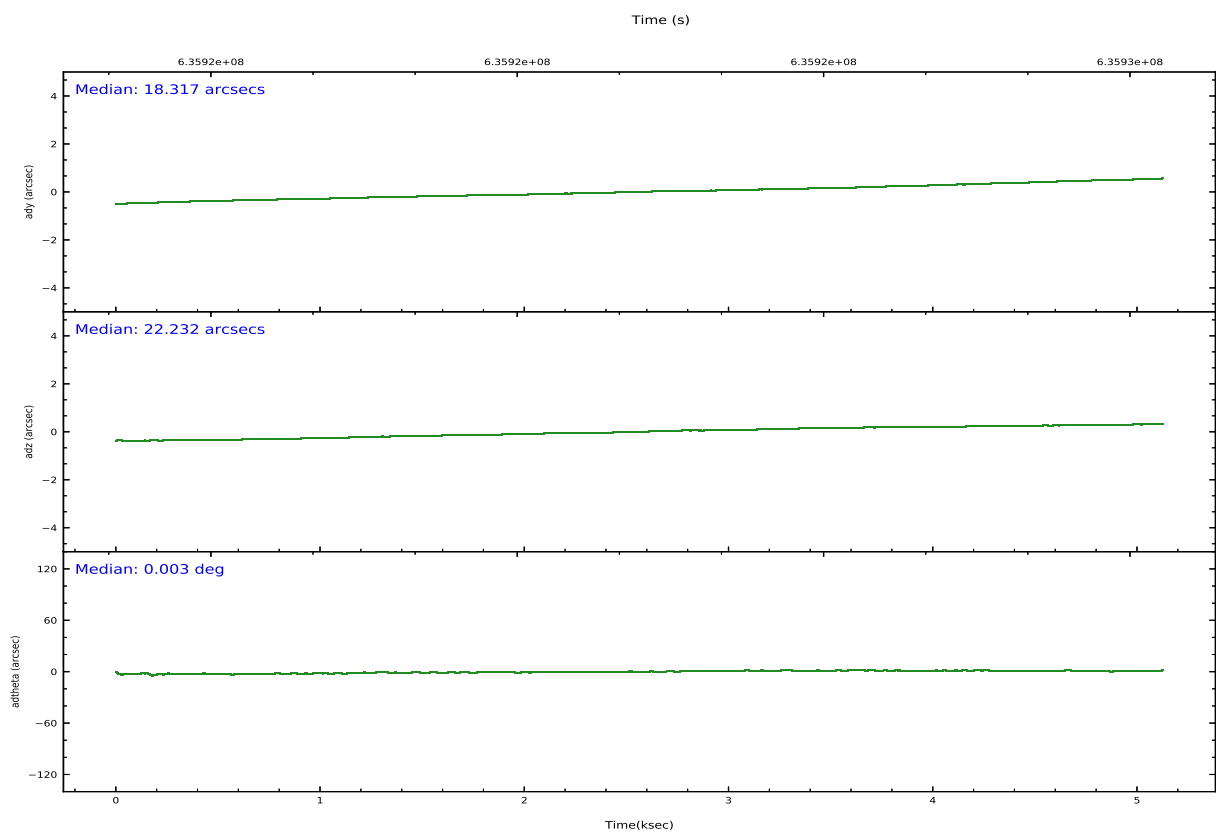
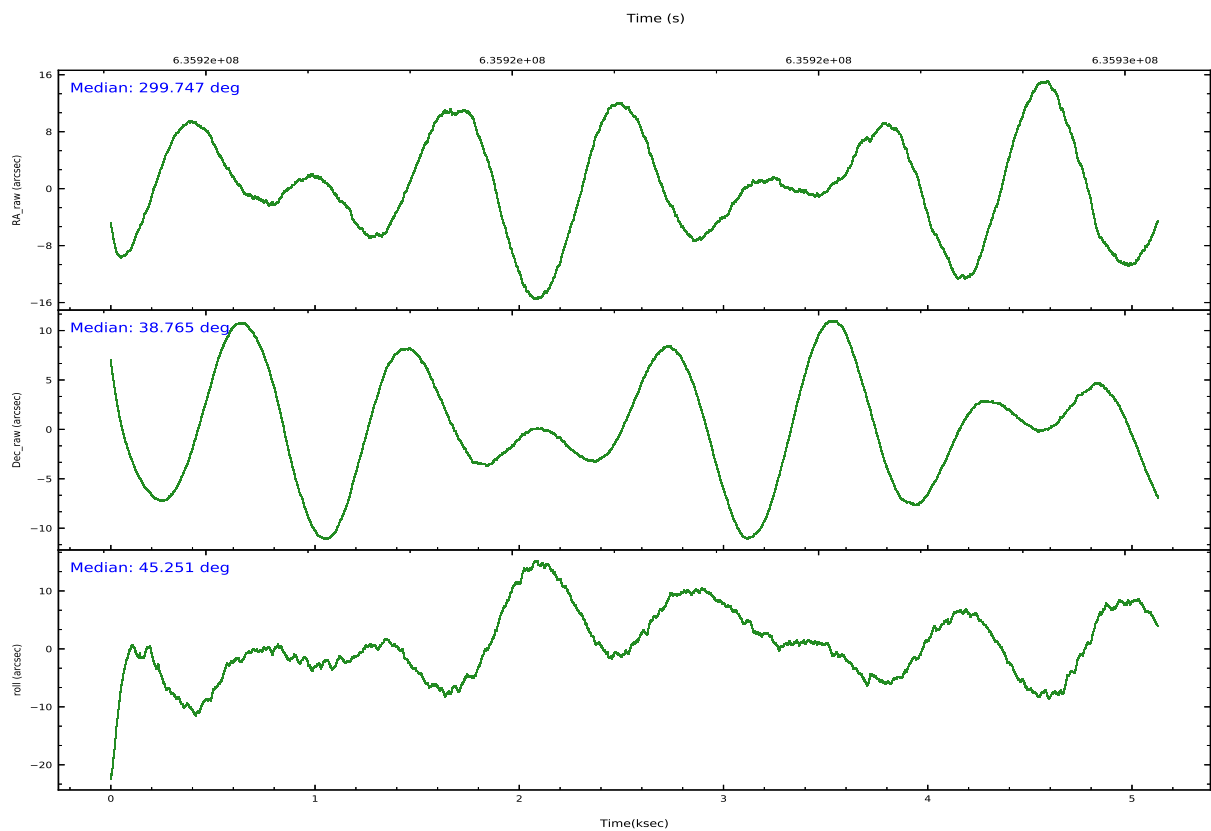
2.2 Compared Parameters

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	299.739031	299.74840735992
[deg] Pointing Dec	38.738172	38.75651117841
[deg] Pointing Roll	45.106766	45.251580620481
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-190.132523	-190.1400660498719
[mm] SIM translation stage offset	0	0.00754346686406393
[s] Observation start time (MET)	635921162.184000	635919891.6452399
Observation start date	2018-02-25T04:44:53	2018-02-25T04:24:51
[s] Observation end time (MET)	635926162.184000	635927120.4581701
Observation end date	2018-02-25T06:08:13	2018-02-25T06:25:20
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



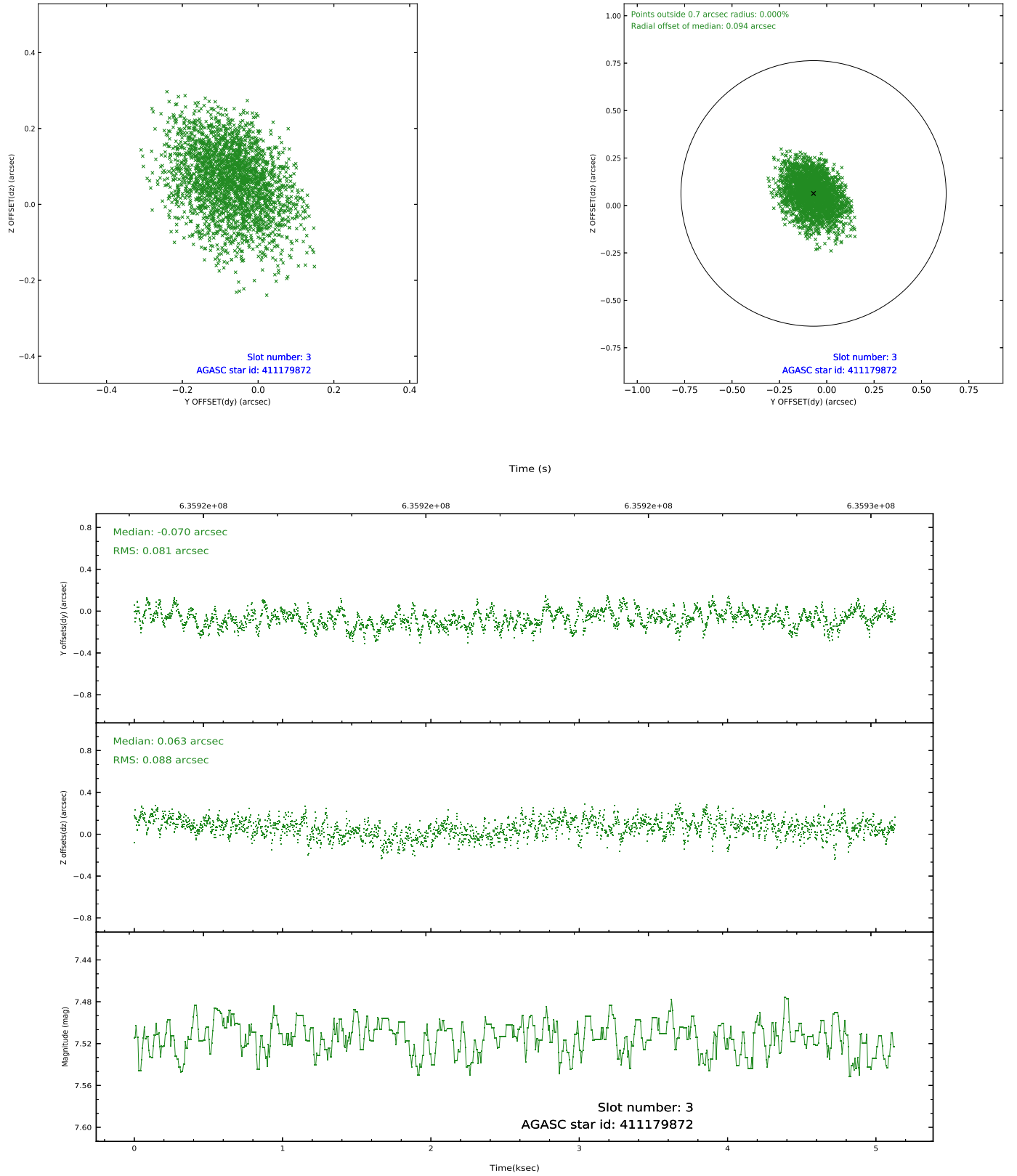


Slot Statistics

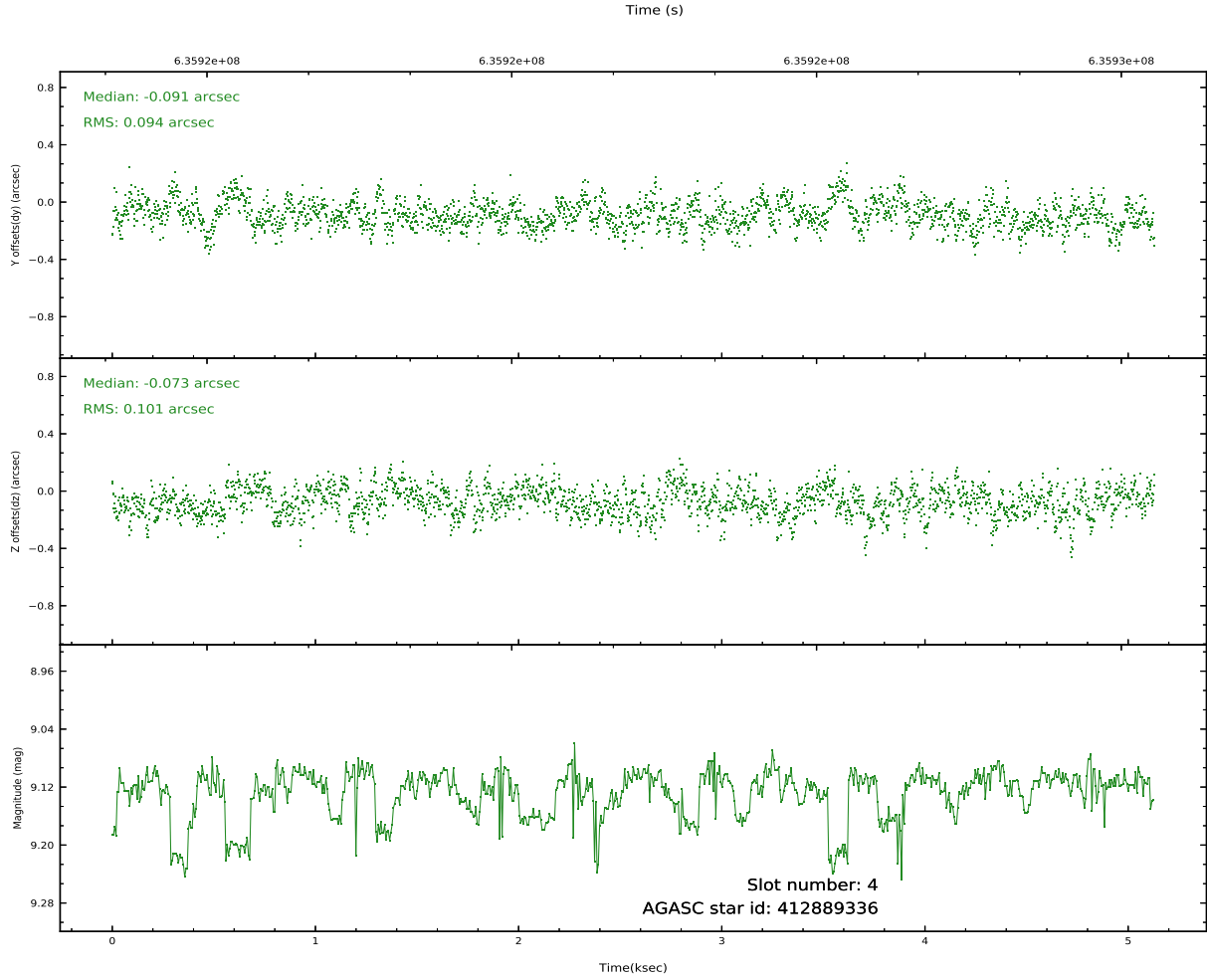
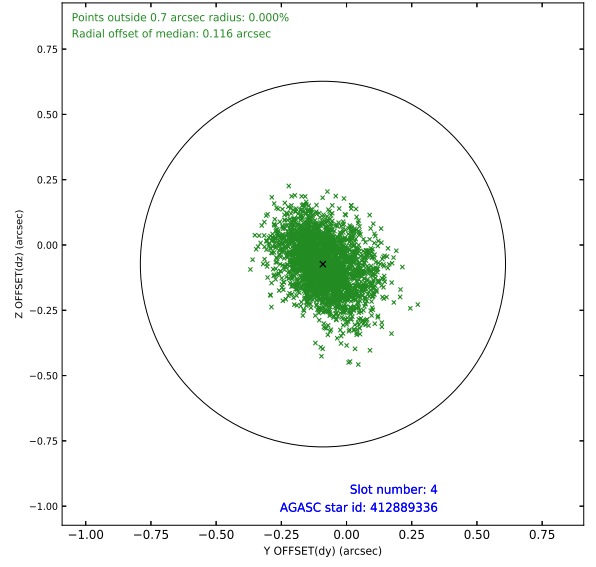
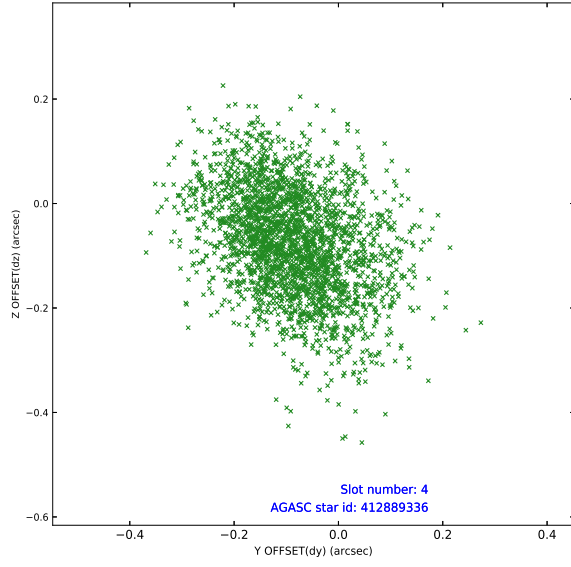
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-1	7.05	1251	1.000	0.308	-0.114	0.023	0.032	0.000000	0.000000	924.70	-1739
1	FID		ACIS-S-4	7.07	1251	1.000	0.022	-0.065	0.018	0.027	0.000000	0.000000	2142.74	163
2	FID		ACIS-S-5	7.08	1252	1.000	-0.357	0.191	0.014	0.022	0.000000	0.000000	-1823.06	158
3	GUIDE	used	411179872	7.51	2503	1.000	-0.070	0.063	0.129	0.206	299.414004	38.400921	-1505.78	-206
4	GUIDE	used	412889336	9.12	2500	1.000	-0.091	-0.073	0.147	0.239	300.581759	38.954828	2225.46	-1113
5	GUIDE	used	412890344	9.06	2501	1.000	-0.148	0.001	0.248	0.408	300.371283	39.031100	2000.43	-504
6	GUIDE	used	412899656	8.33	2502	1.000	0.094	0.025	0.332	0.518	300.439408	38.735260	1387.76	-1395
7	GUIDE	used	412906128	8.71	2496	1.000	0.174	-0.013	0.154	0.260	300.705366	38.911601	2364.50	-1469

2.4 Star Slots

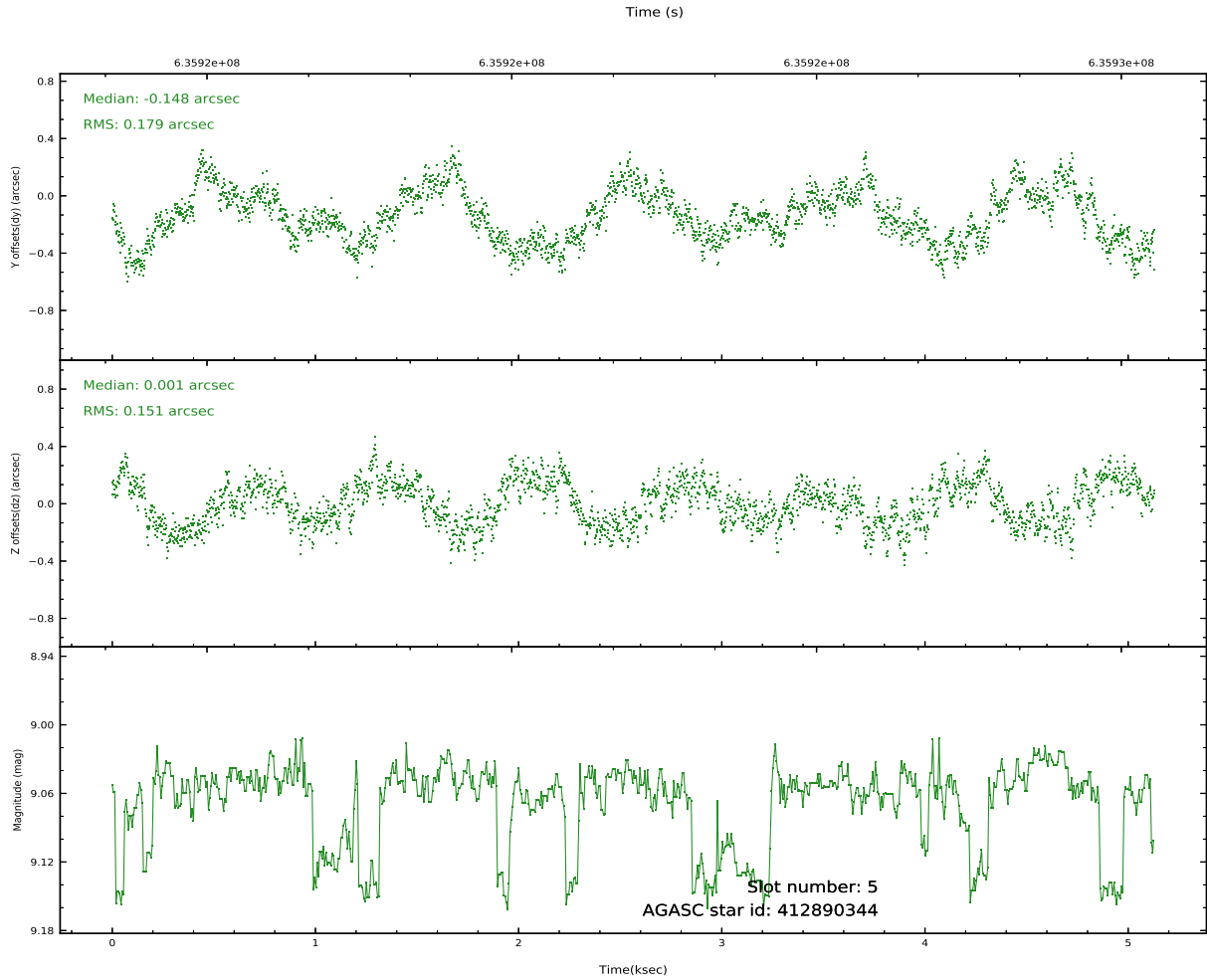
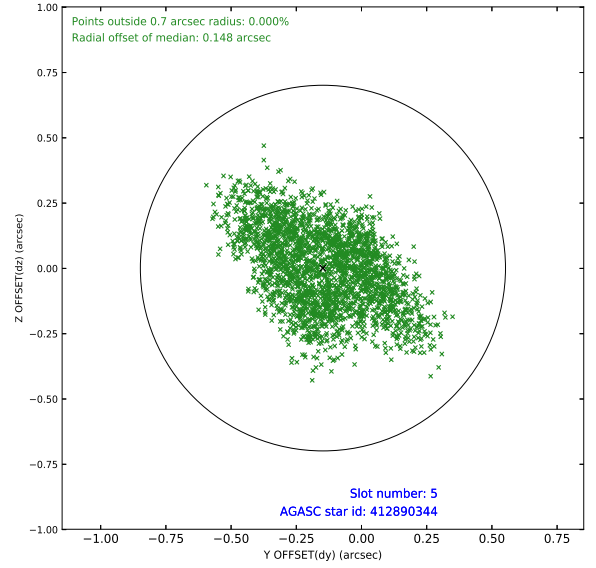
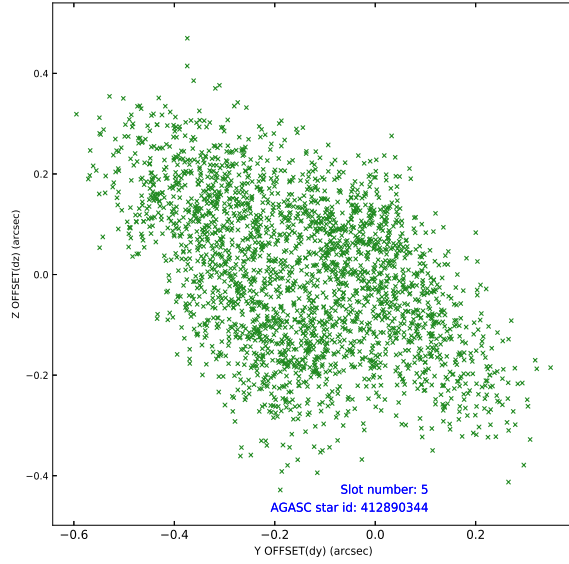
2.4.1 Slot 3



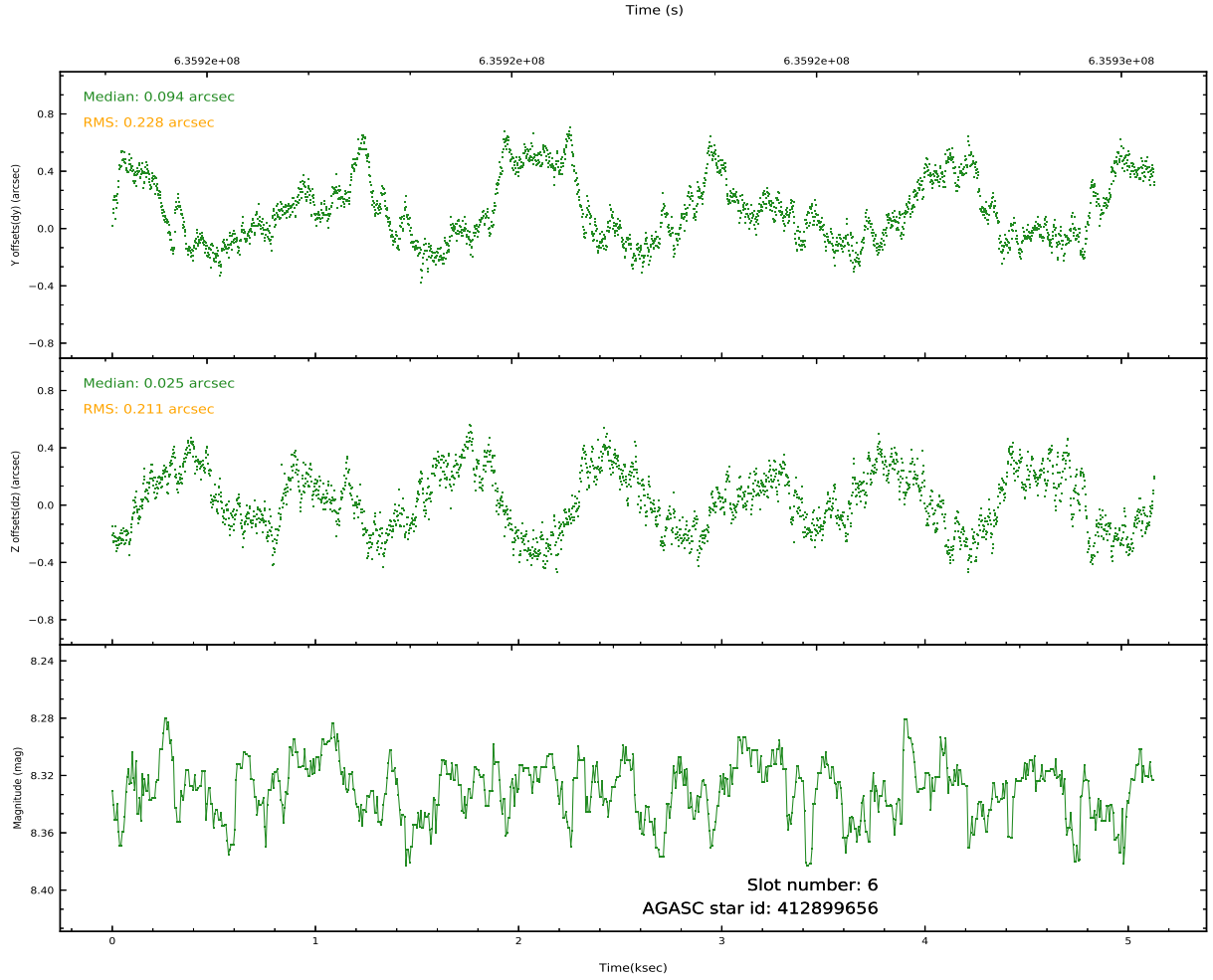
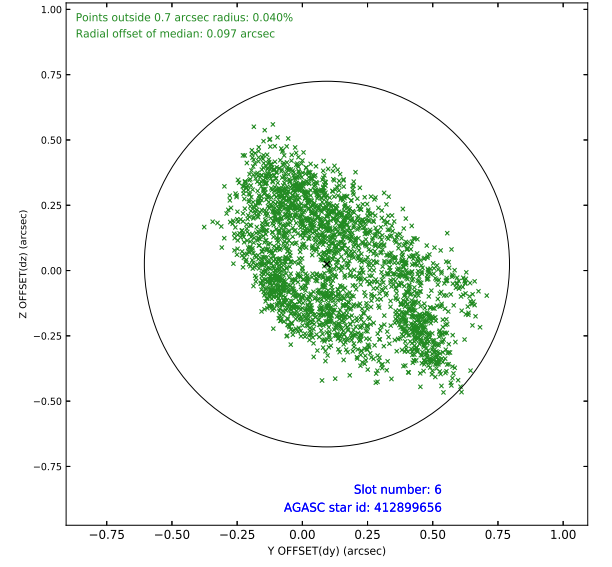
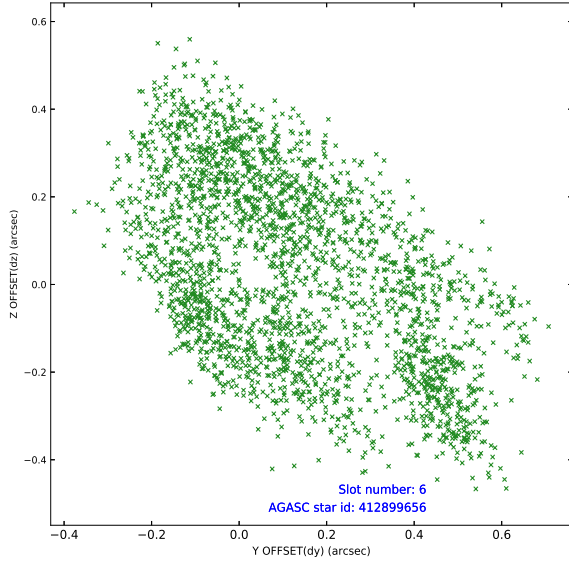
2.4.2 Slot 4



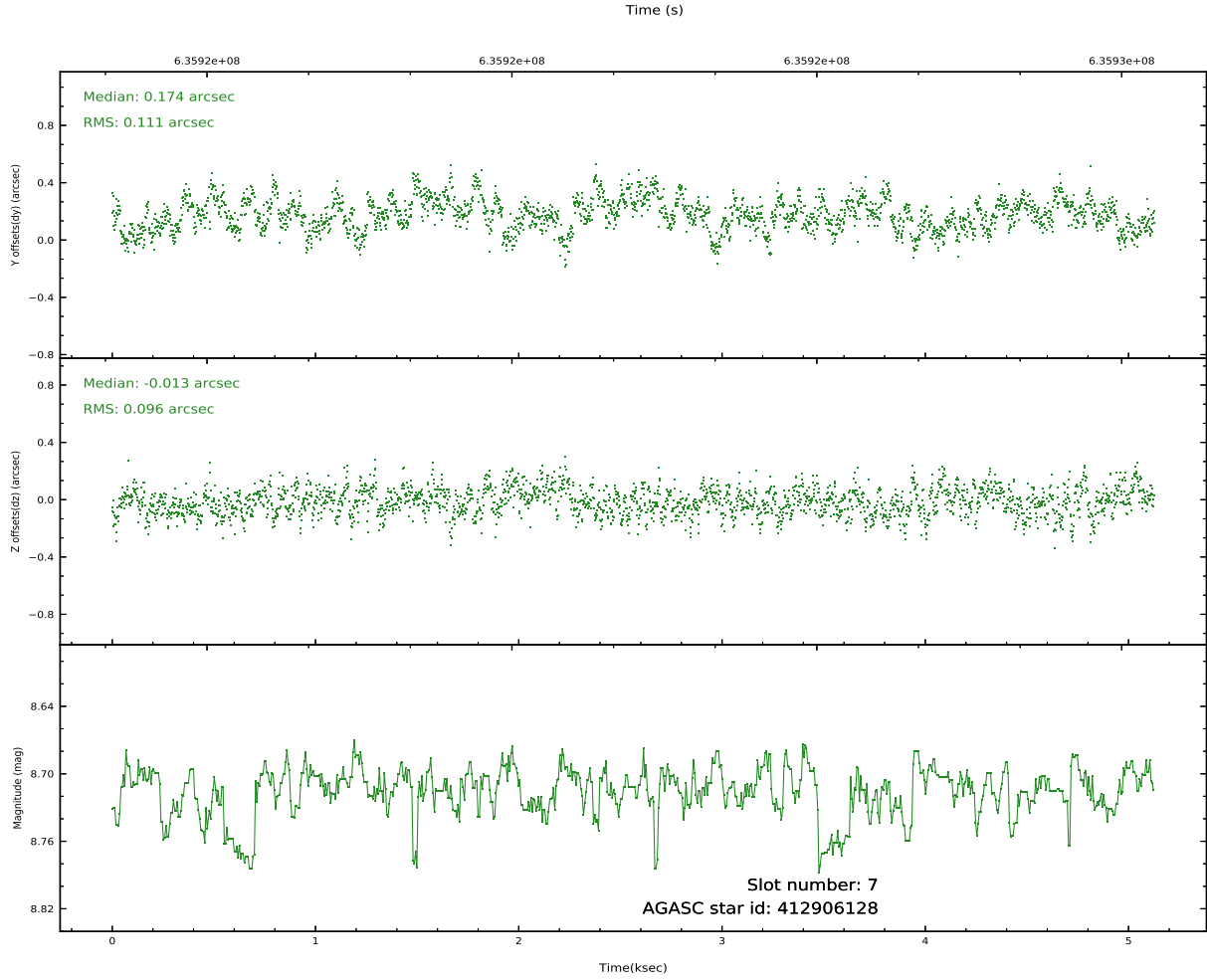
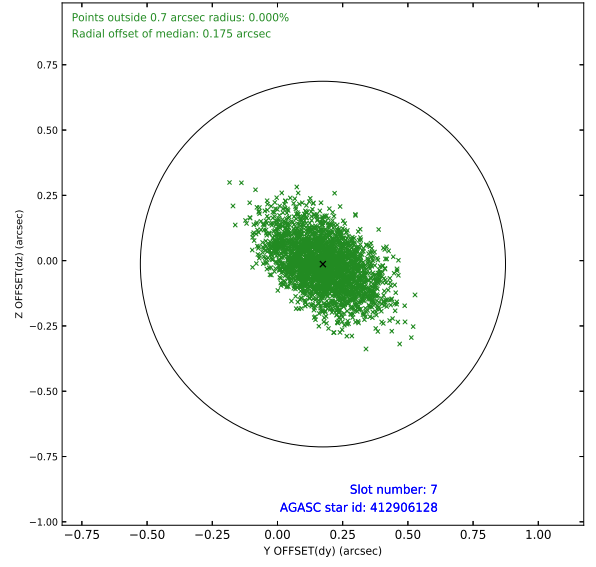
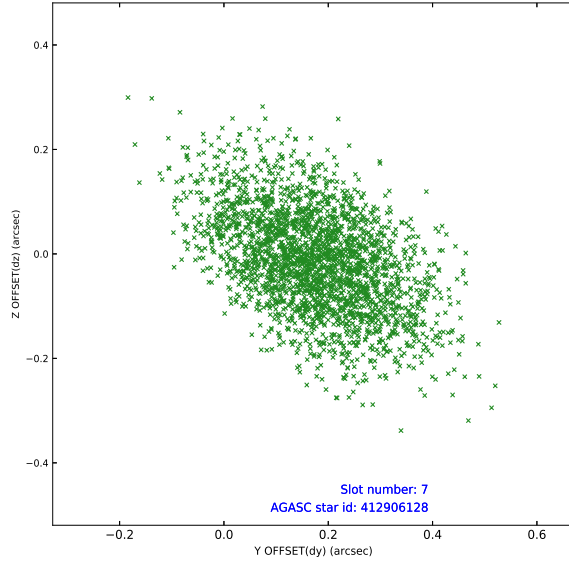
2.4.3 Slot 5



2.4.4 Slot 6

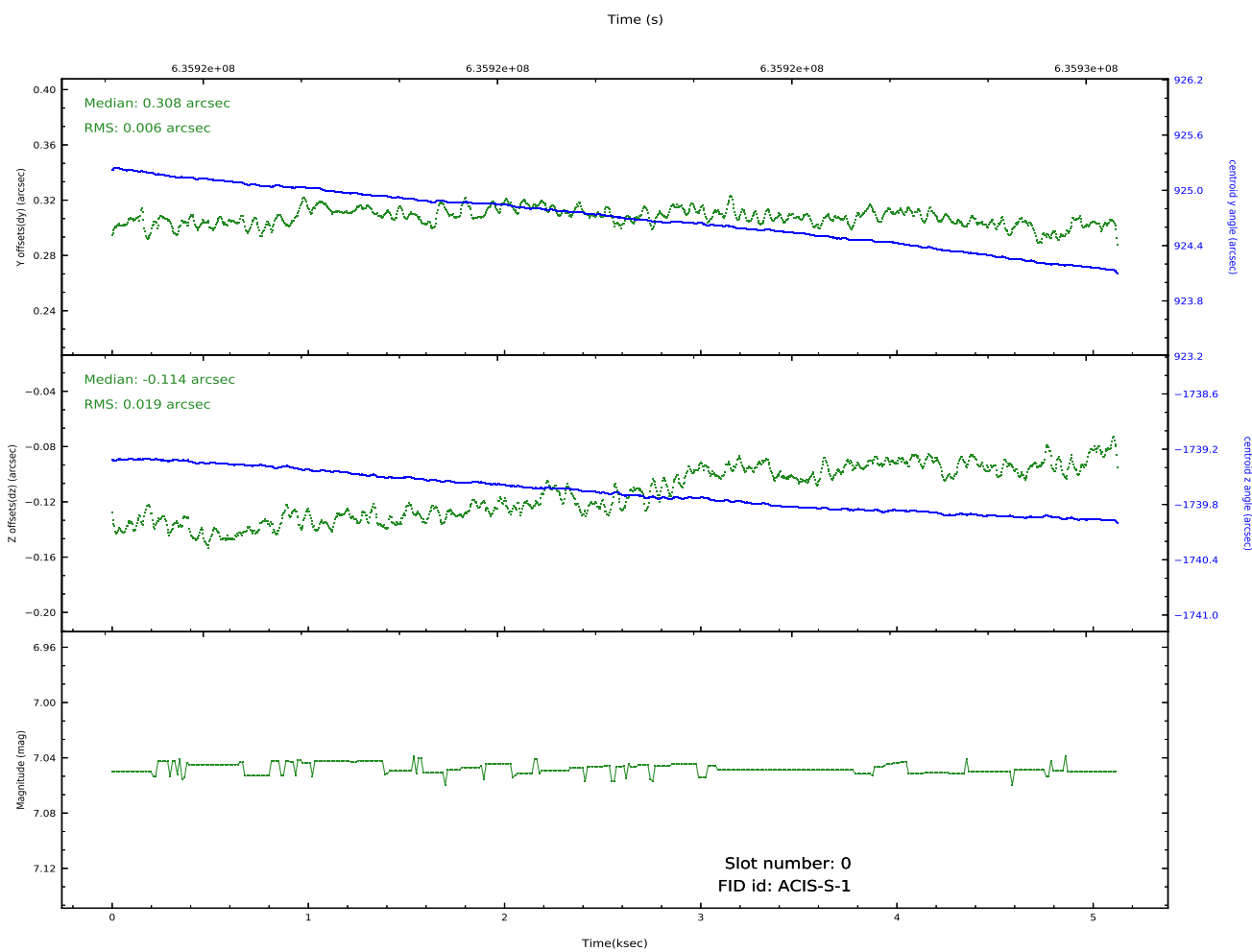
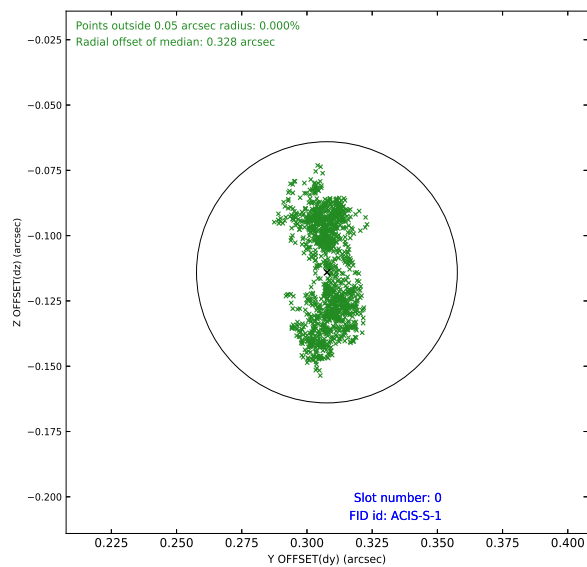
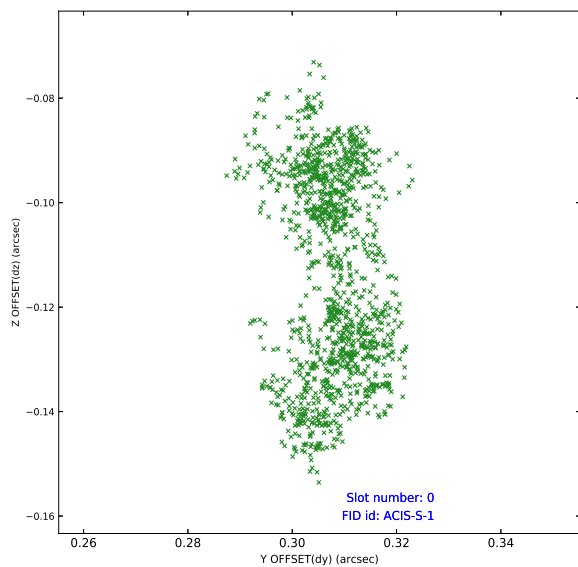


2.4.5 Slot 7

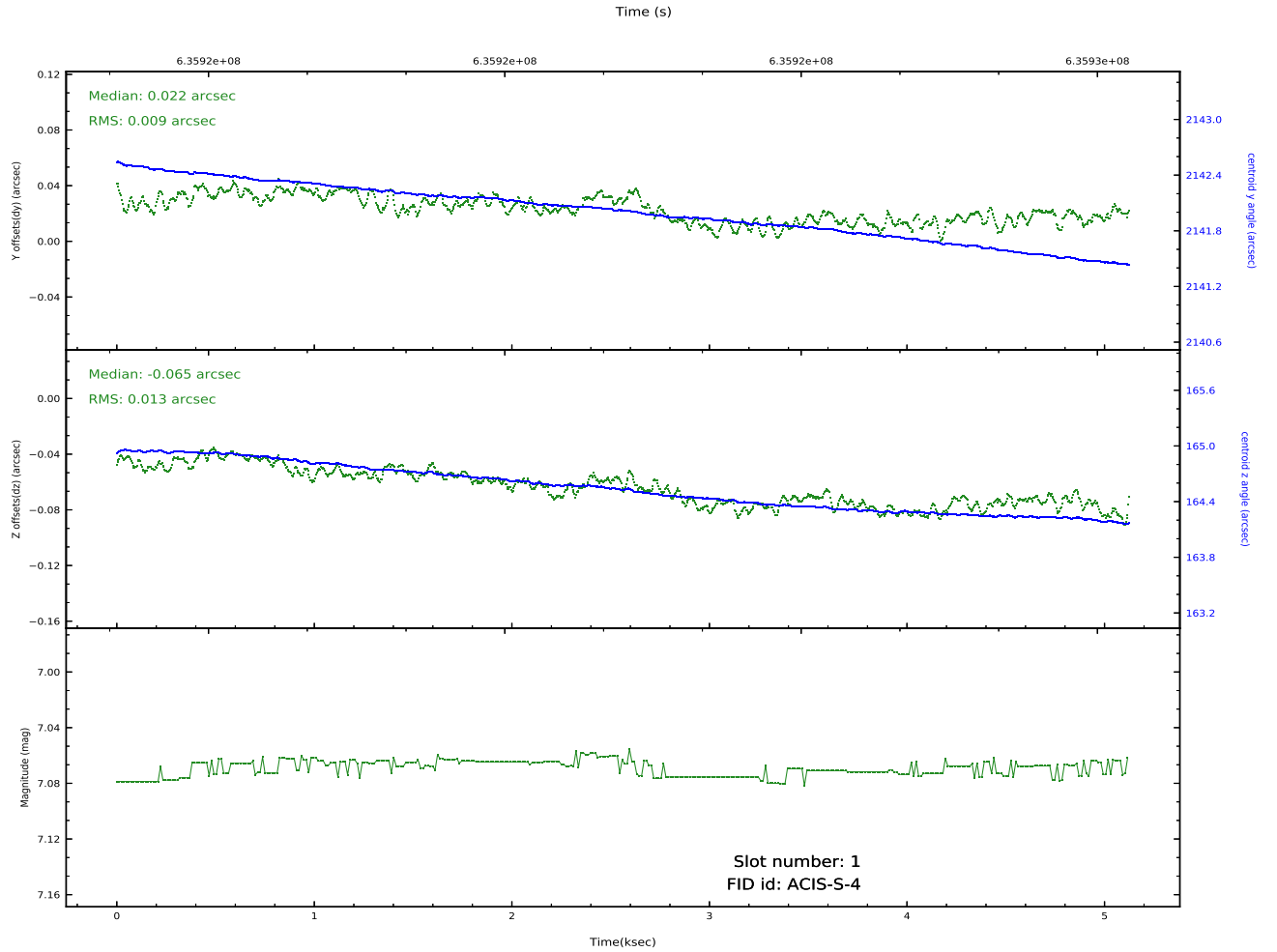
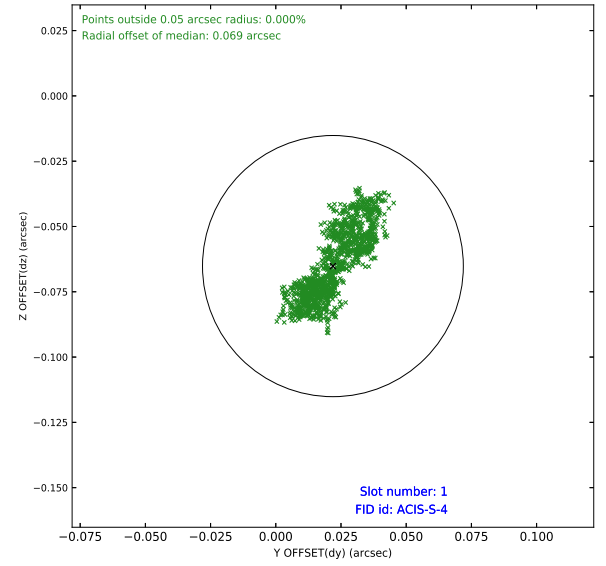
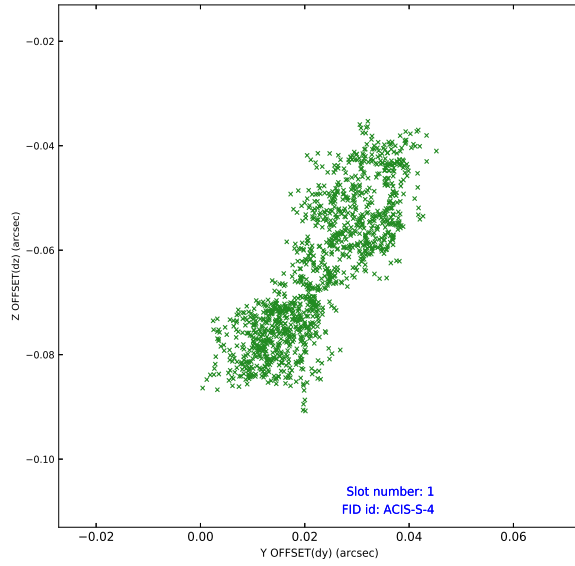


2.5 FID Slots

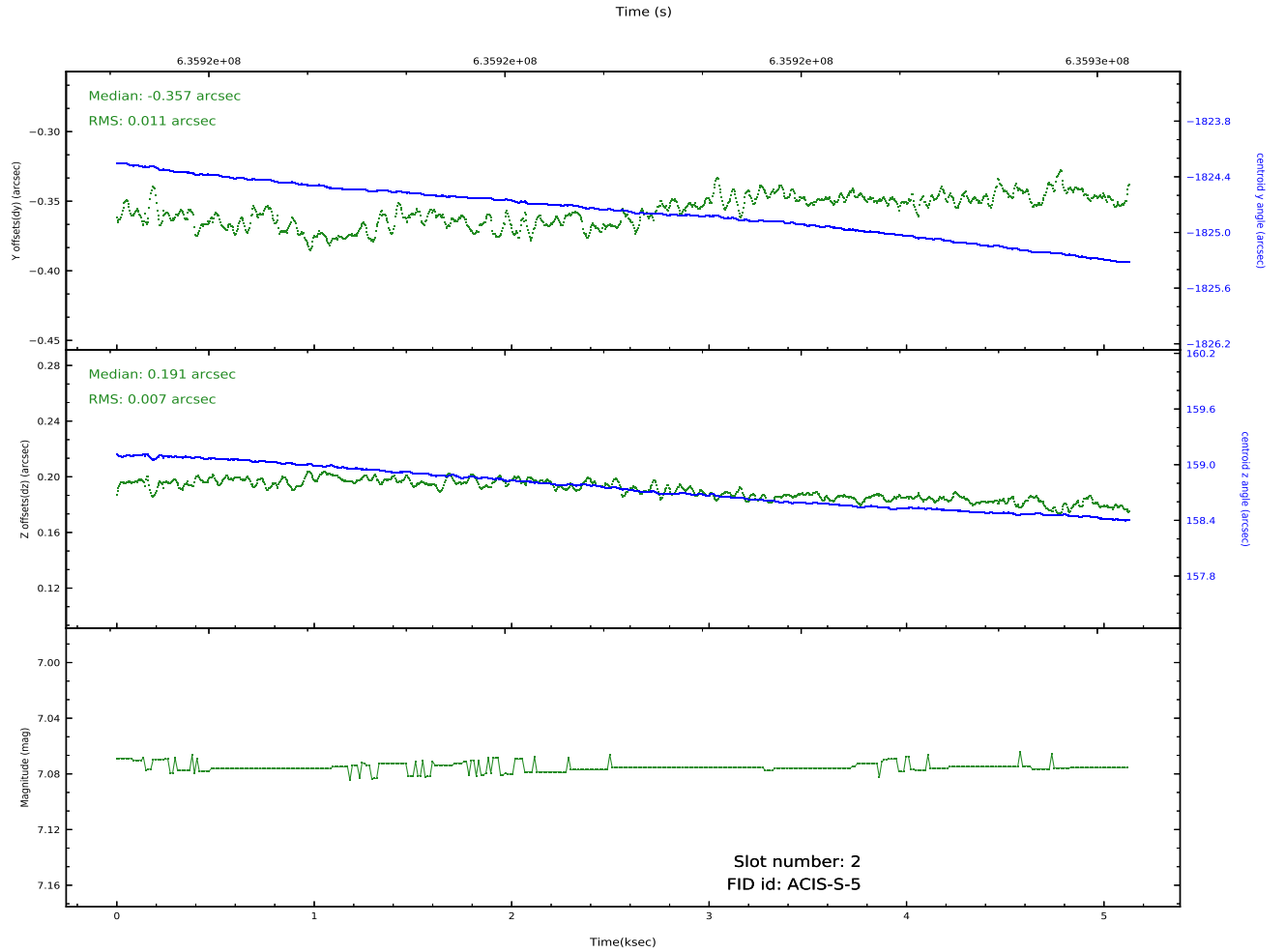
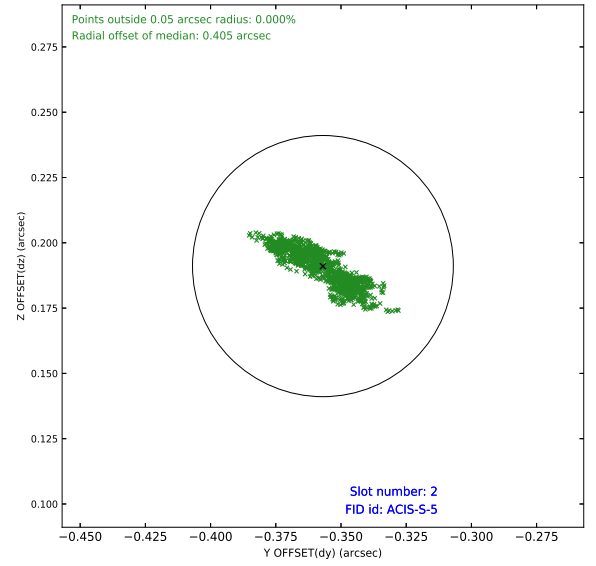
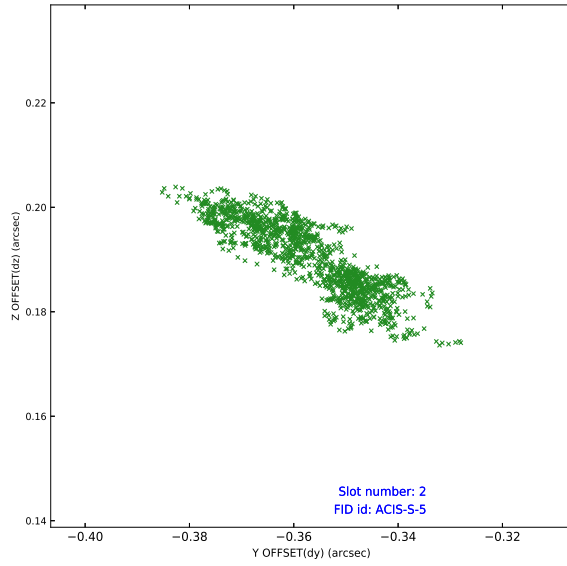
2.5.1 Slot 0



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	5.1113583598137

A.2 Comments