

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20875 - L2 Version 2
Chandra X-Ray Center

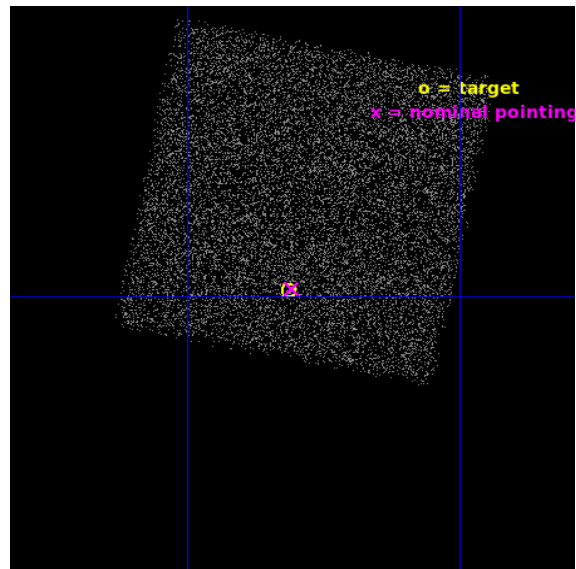
L2 Processing Date : Oct 24 2020

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1 Front

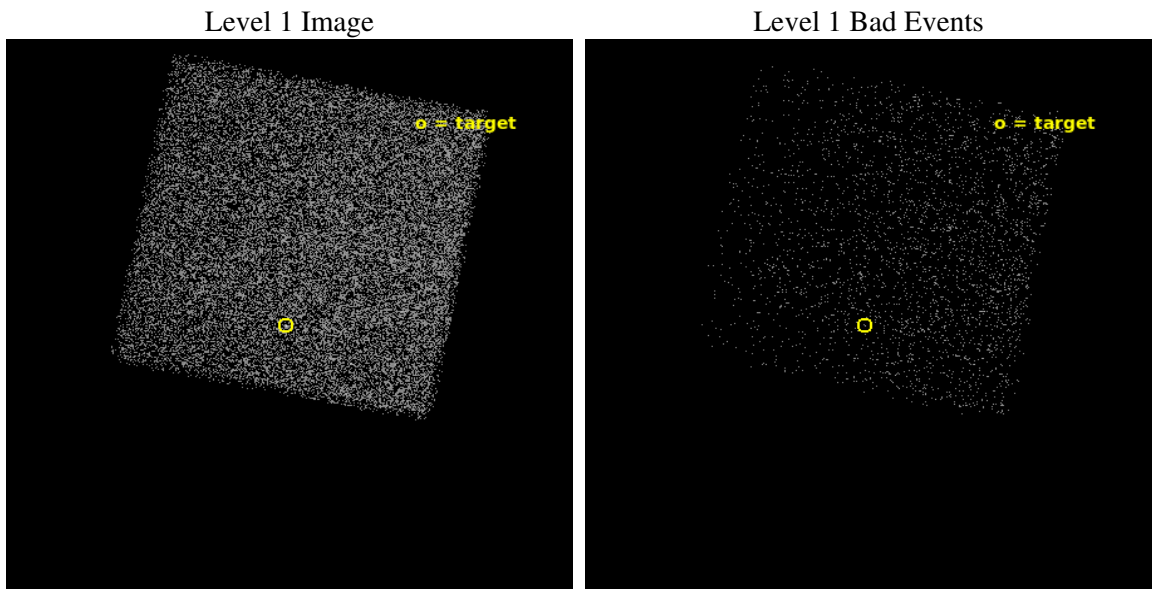
seq_num	201204	Sequence number
obs_id	20875	Observation id
title	Characterizing X-ray driven molecular chemistry in a young protoplanetary disk	Proposal title
observer	Lauren Cleeves	Principal investigator
object	DM Tau	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	68.452917	Observer's specified target RA [deg]
dec_targ	18.169417	Observer's specified target Dec [deg]
ra_nom	68.451753834153	Nominal RA [deg]
dec_nom	18.170171006589	Nominal Dec [deg]
roll_nom	281.17403480159	Nominal Roll [deg]
revision	2	Processing version of data
ontime	4091.5769041777	Sum of GTIs [s]
livetime	4036.3595061338	Livetime [s]
ontime7	4091.5769041777	Sum of GTIs [s]
l2events	16304	Number of level 2 events



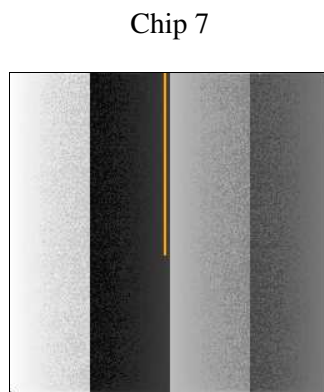
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	4000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	4091.5769041777	Sum of GTIs [s]
caldsver	4.9.3	 	ontime7	4091.5769041777	Sum of GTIs [s]
date	2020-10-24T09:05:36	Date and time of file creation	l1events	37916	Number of level 1 events
revision	2	Processing version of data			

2.1.4 Events

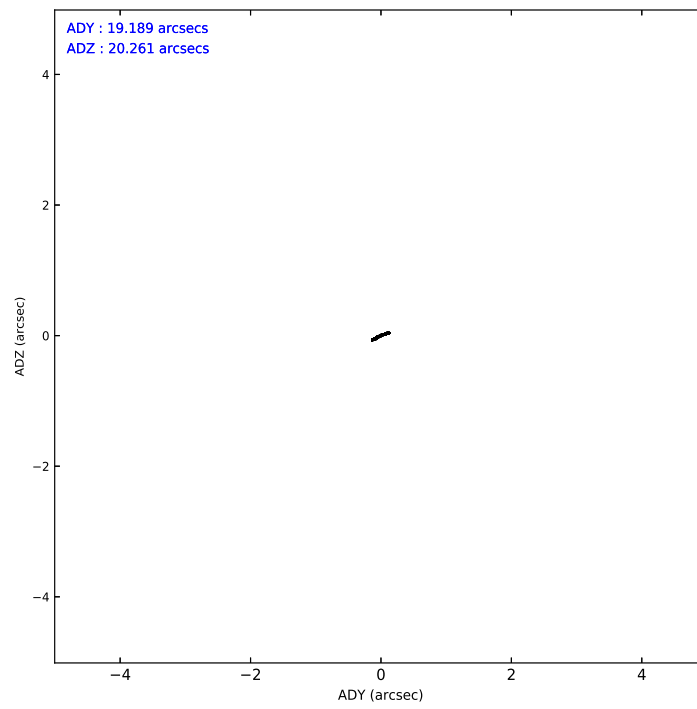
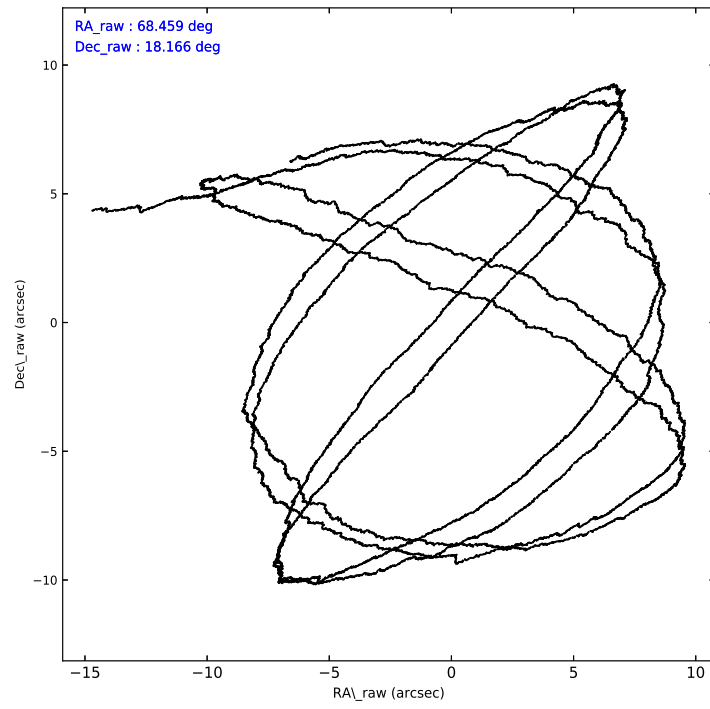
	ccd 7
level 1 events	37916
rejected events	21076
rejected %	55%

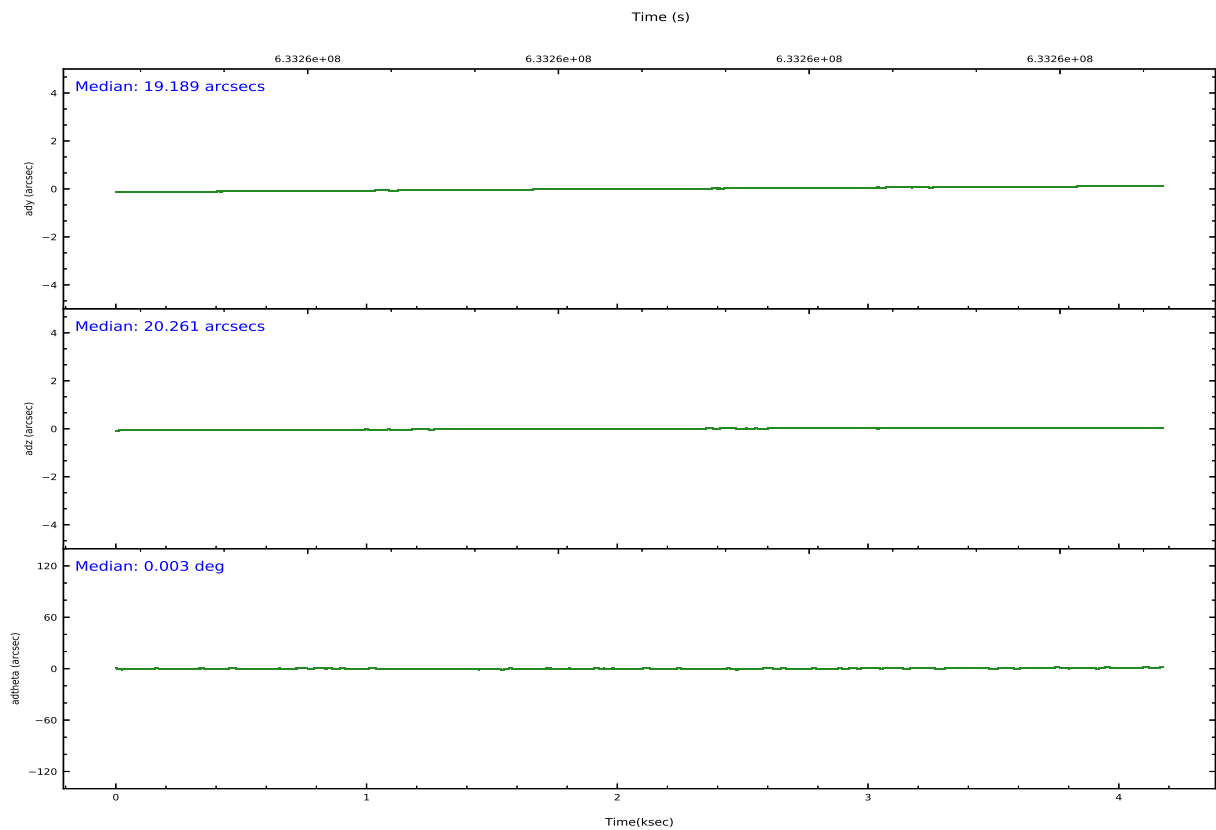
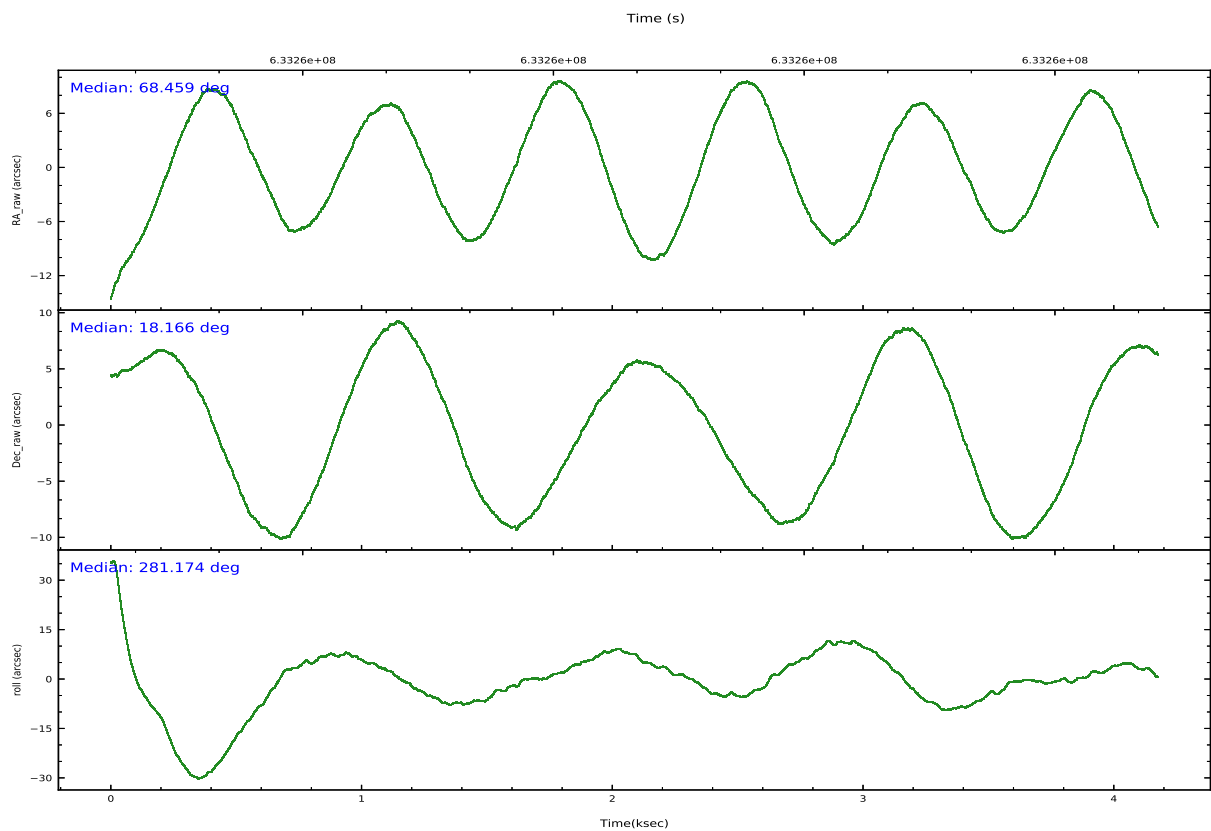
	ccd 7
grade 0 events	1381
	3%
grade 1 events	47
	0%
grade 2 events	3586
	9%
grade 3 events	1336
	3%
grade 4 events	1333
	3%
grade 5 events	3701
	9%
grade 6 events	9227
	24%
grade 7 events	17305
	45%

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	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	68.439547	68.451753834153	Subarray requested	NONE	NONE
[deg] Pointing Dec	18.186087	18.170171006589	Alternating exposures requested	N	N
[deg] Pointing Roll	281.040408	281.17403480159	[s] Primary exposure time	0.000000	3
[s] Window start time (MET)	633132069.184000	633132069.184000			
[s] Window stop time (MET)	633304869.184000	633304869.184000			
[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)	633255413.184000	633253970.52572			
Observation start date	2018-01-25T08:15:44	2018-01-25T07:52:50			
[s] Observation end time (MET)	633259413.184000	633260357.30109			
Observation end date	2018-01-25T09:22:24	2018-01-25T09:39:17			
Read mode	TIMED	TIMED			

2.3 Aspect



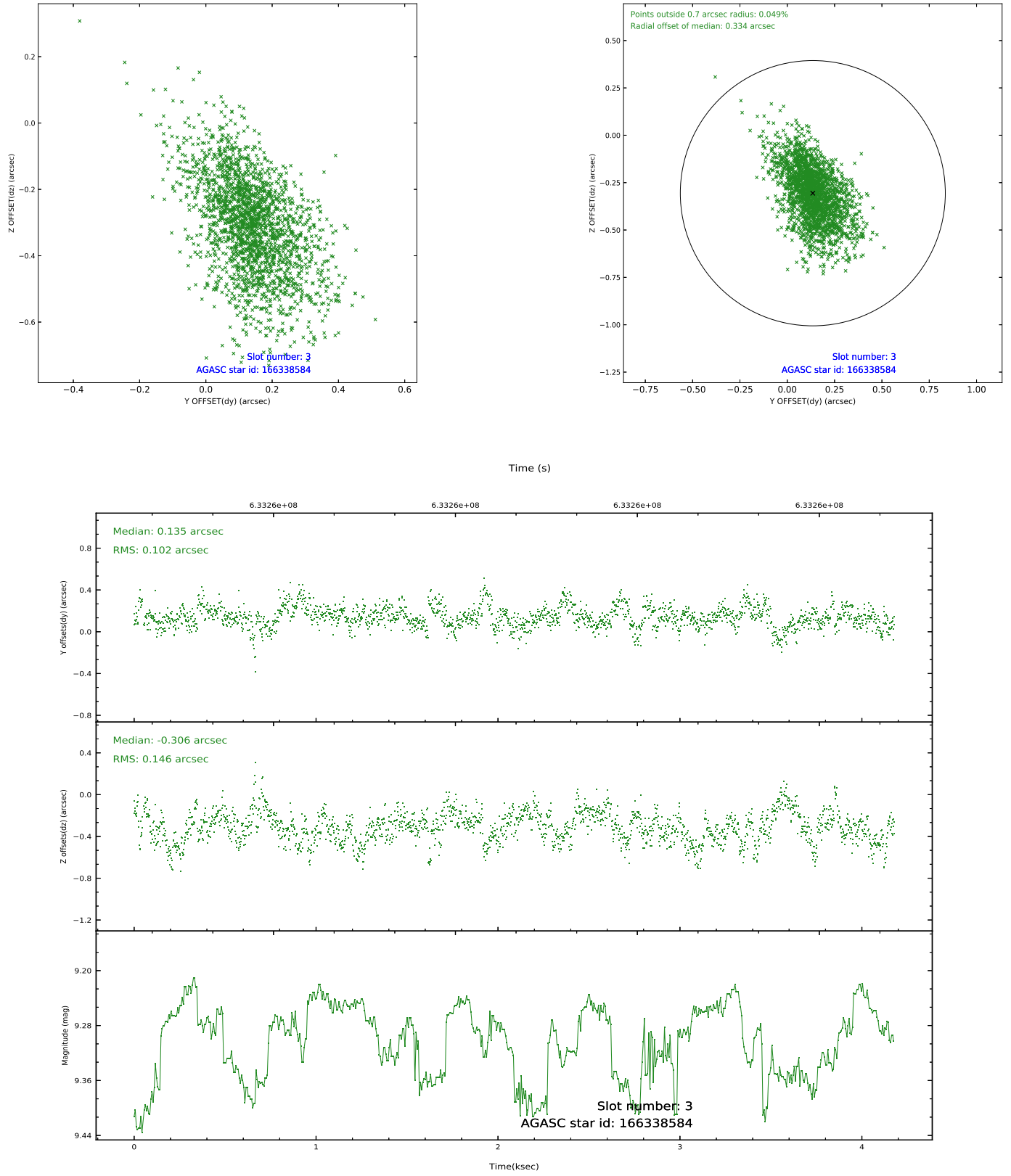


Slot Statistics

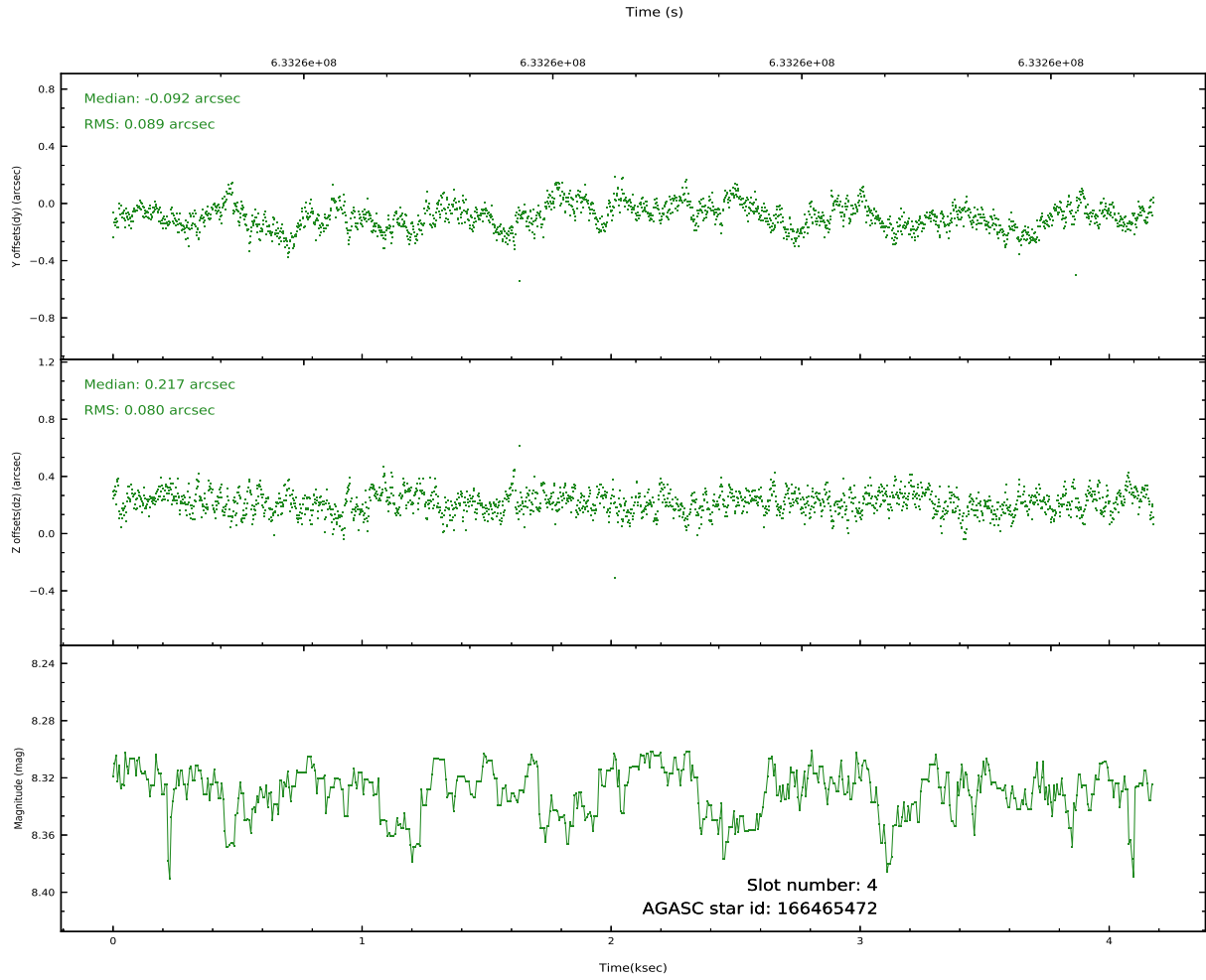
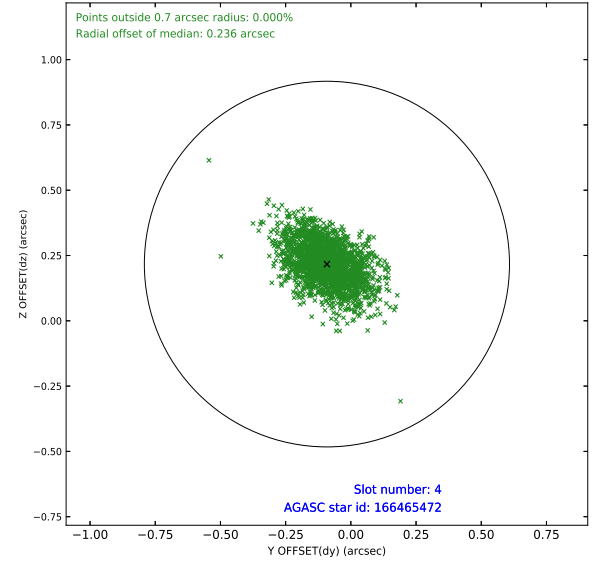
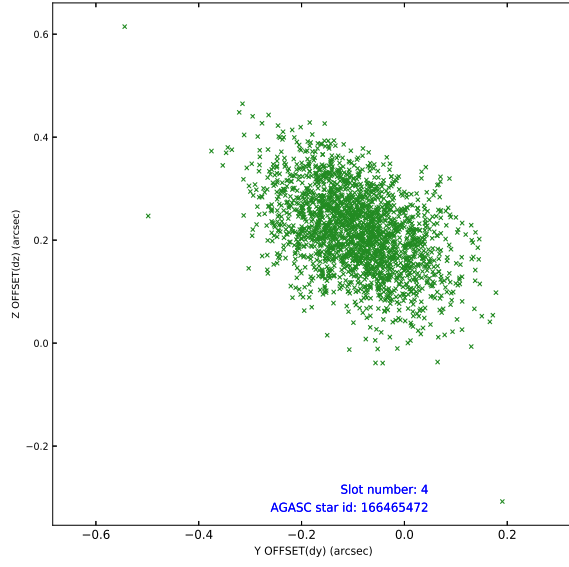
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.14	1019	1.000	0.089	-0.115	0.007	0.011	0.000000	0.000000	-772.40	-1741
1	FID		ACIS-S-4	7.27	1018	1.000	0.173	-0.012	0.007	0.015	0.000000	0.000000	2140.51	164
2	FID		ACIS-S-5	7.25	1019	1.000	-0.293	0.135	0.008	0.014	0.000000	0.000000	-1823.49	160
3	GUIDE	used	166338584	9.29	2036	1.000	0.135	-0.306	0.185	0.330	67.904616	17.709782	1331.62	-2126
4	GUIDE	used	166465472	8.33	2038	1.000	-0.092	0.217	0.124	0.210	68.719684	18.413404	-619.33	1095
5	GUIDE	used	166467888	8.10	2039	1.000	0.089	-0.172	0.118	0.203	68.675864	17.748180	1703.43	495
6	GUIDE	used	166468240	9.00	2037	1.000	-0.059	0.005	0.230	0.368	68.167699	17.861525	970.05	-1137
7	GUIDE	used	166472048	8.57	2037	1.000	-0.085	0.255	0.122	0.202	69.128417	17.932418	1344.97	2141

2.4 Star Slots

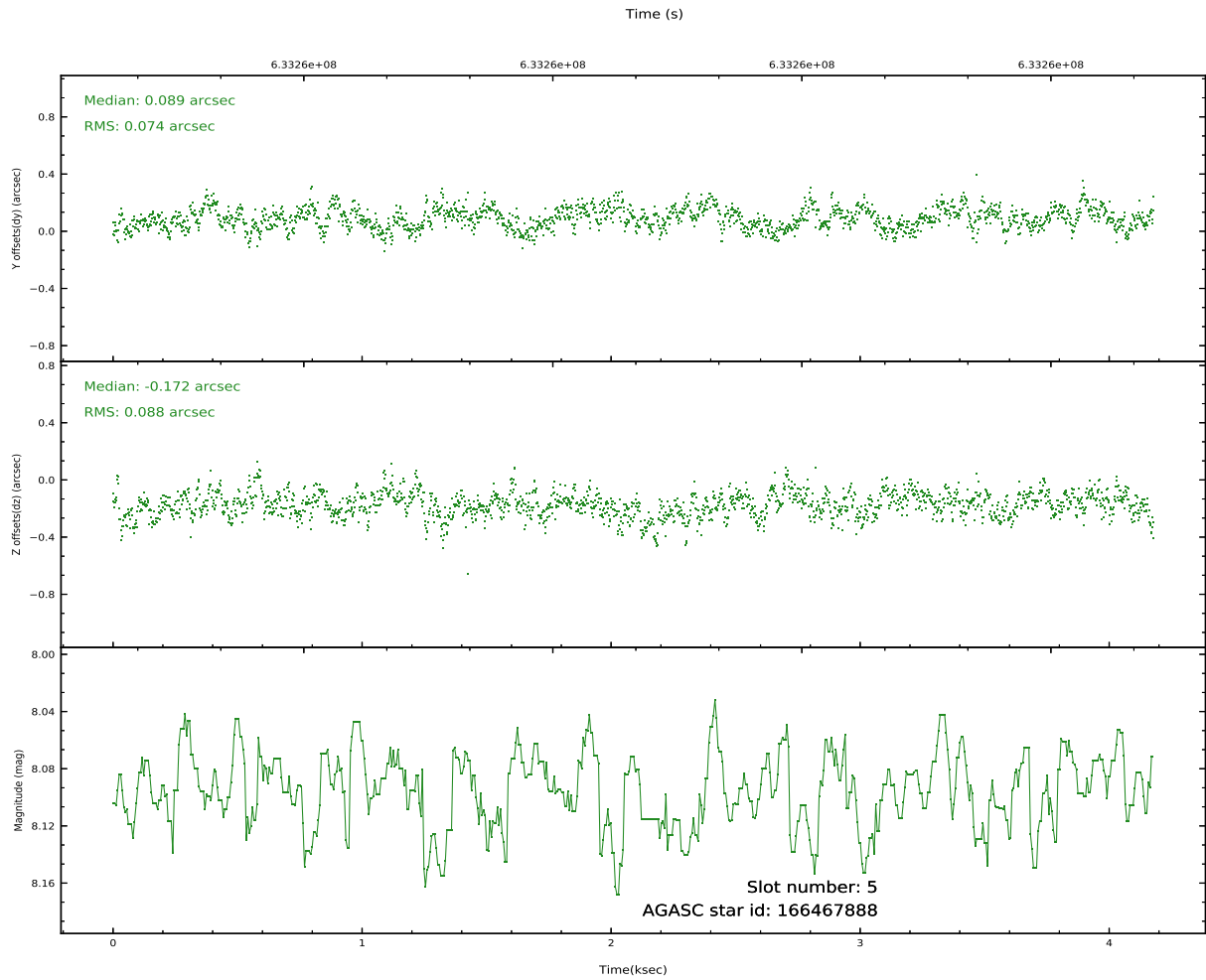
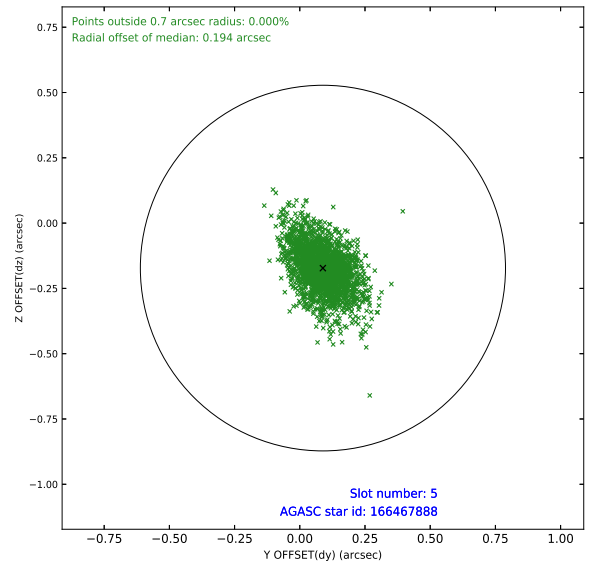
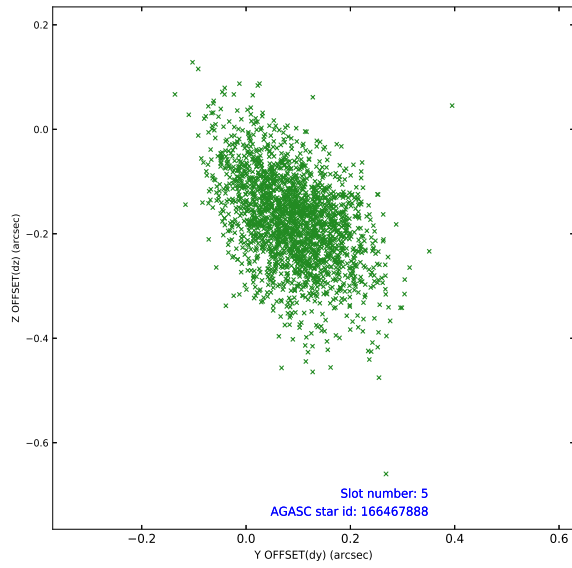
2.4.1 Slot 3



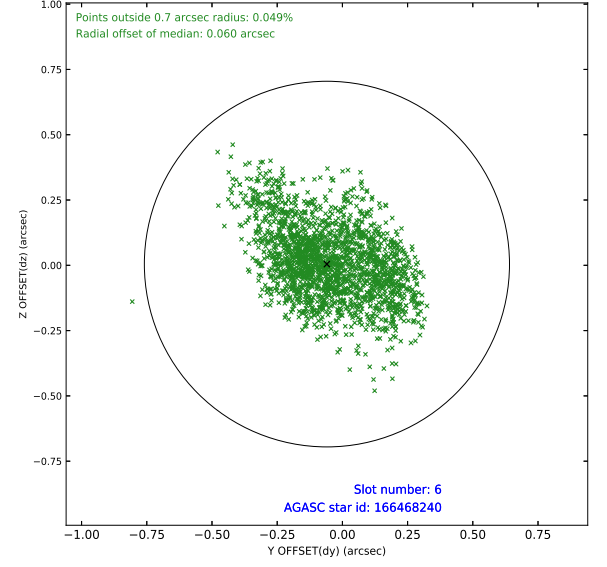
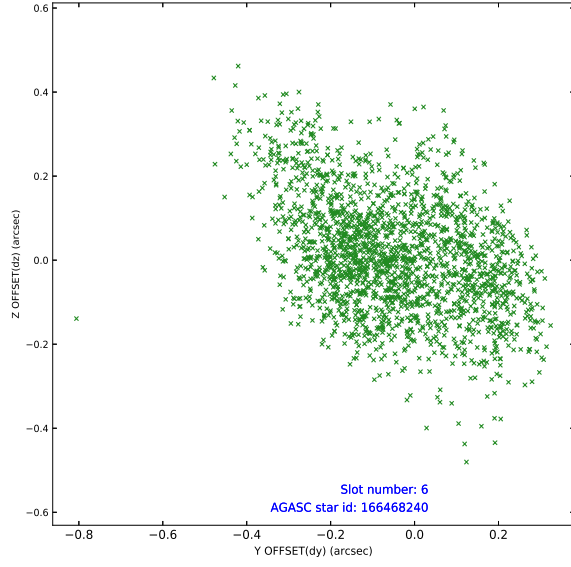
2.4.2 Slot 4



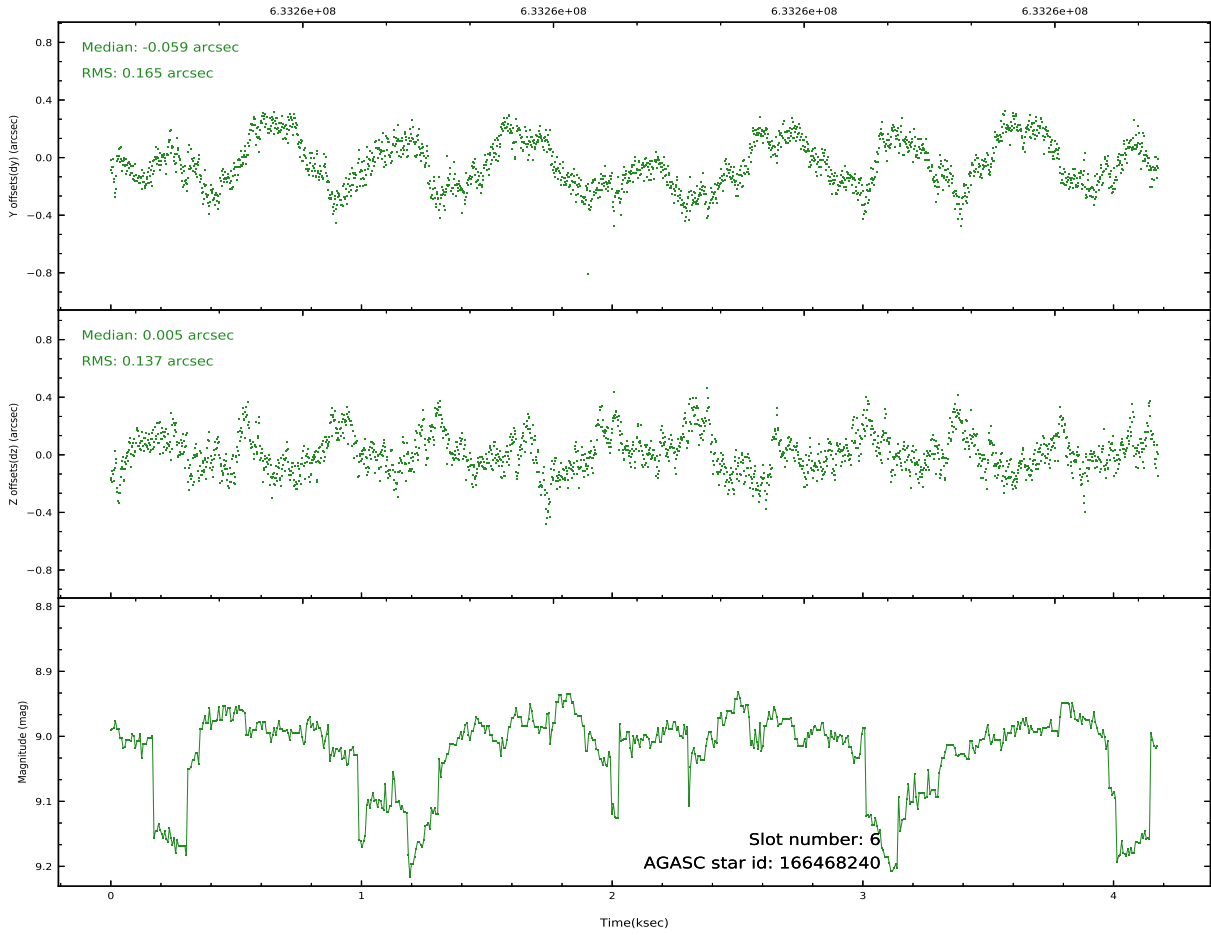
2.4.3 Slot 5



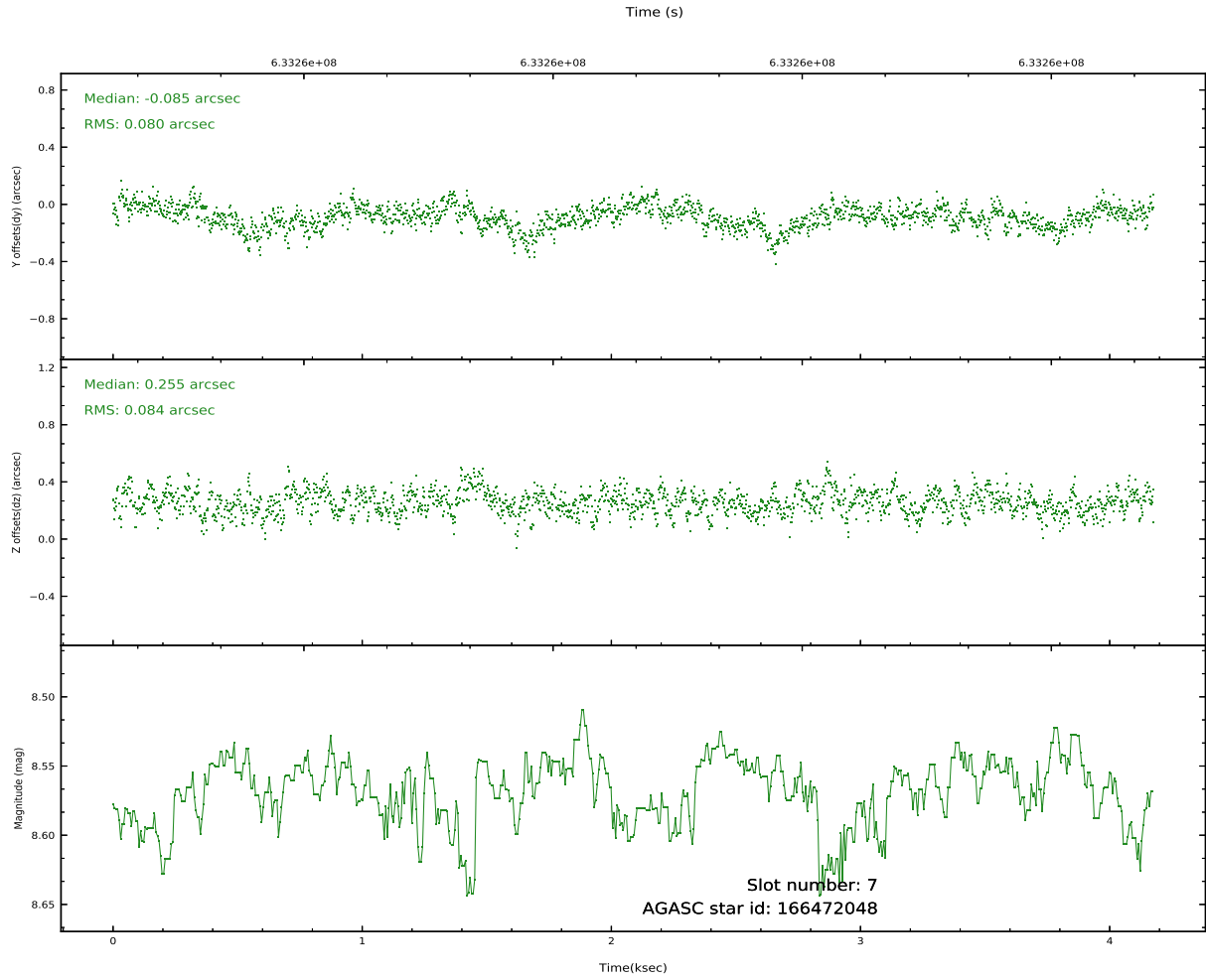
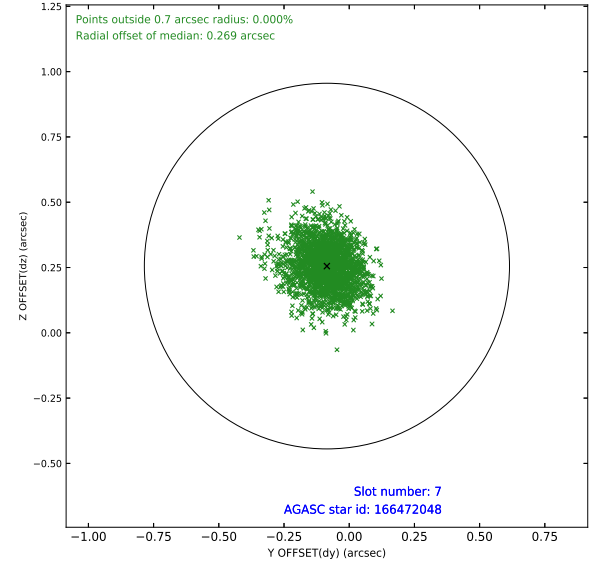
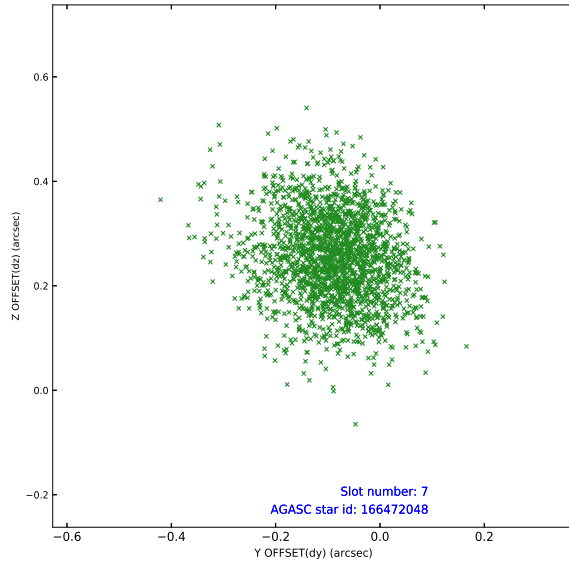
2.4.4 Slot 6



Time (s)

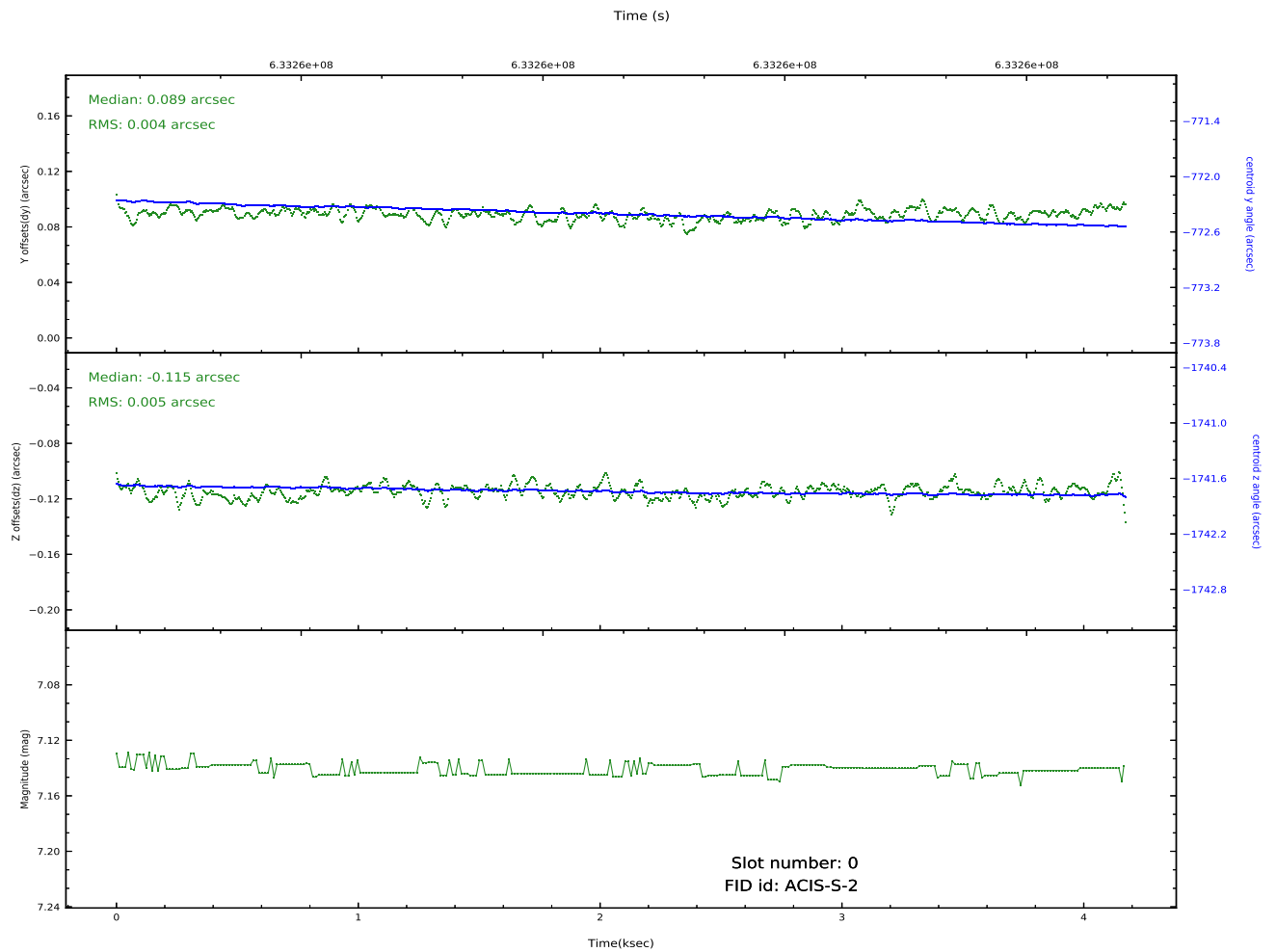
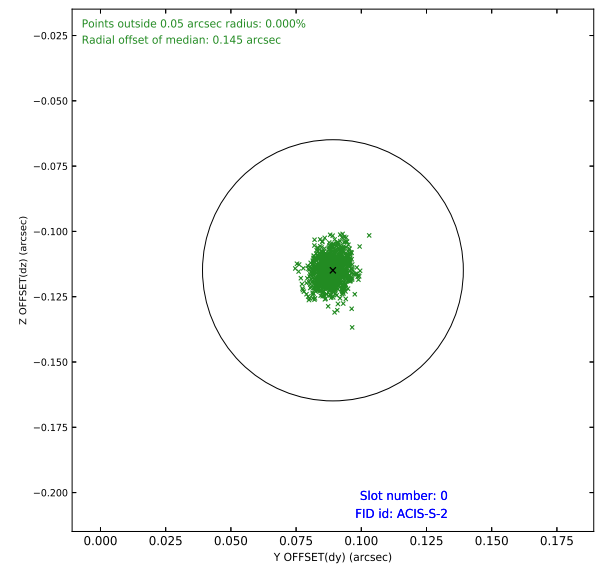
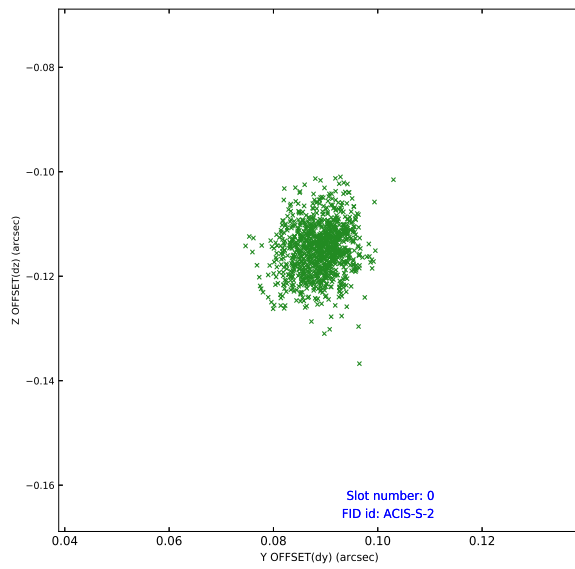


2.4.5 Slot 7

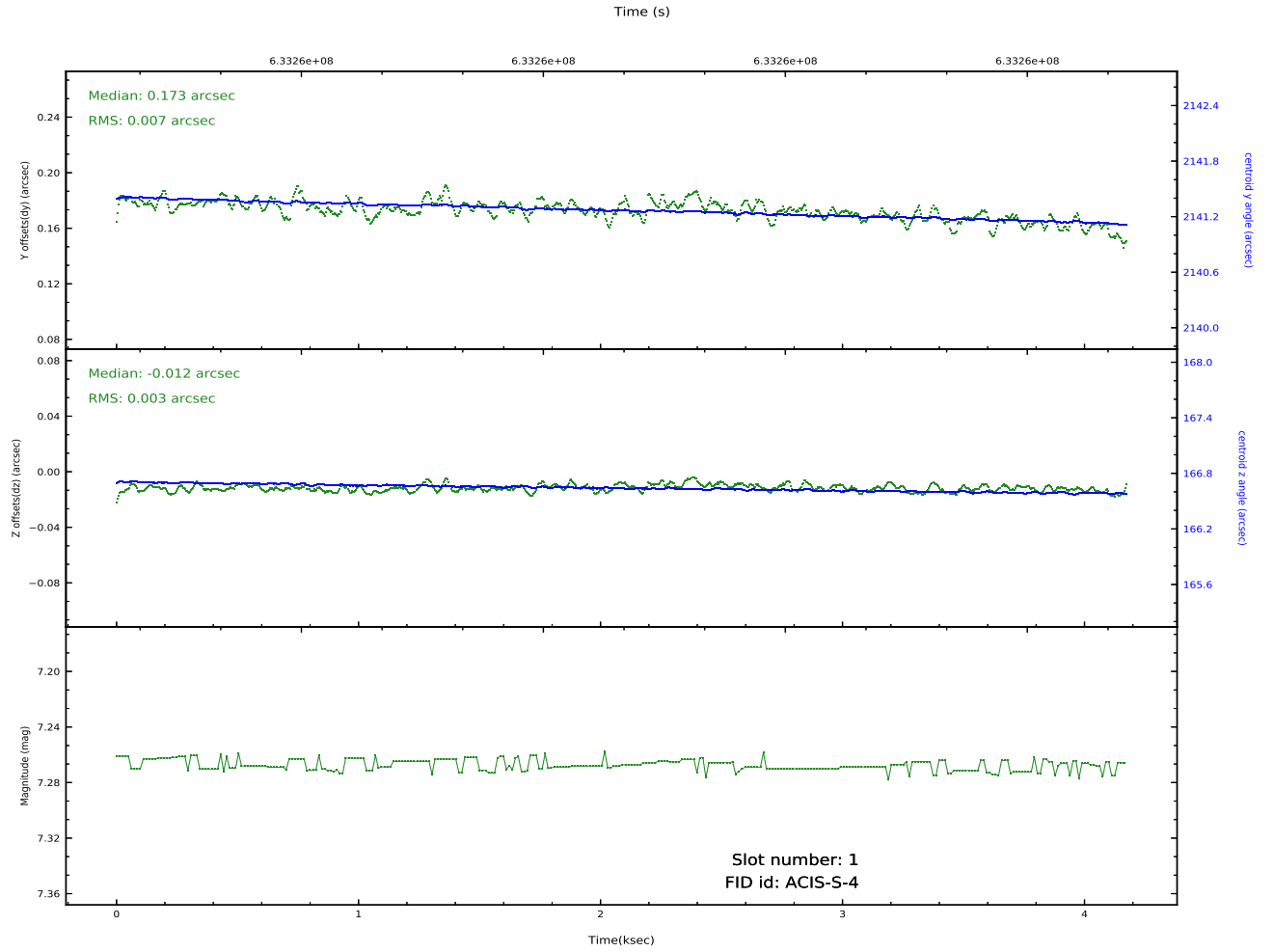
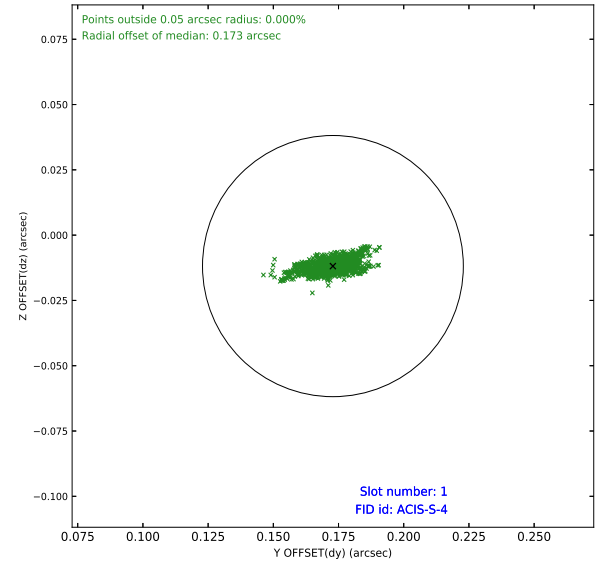
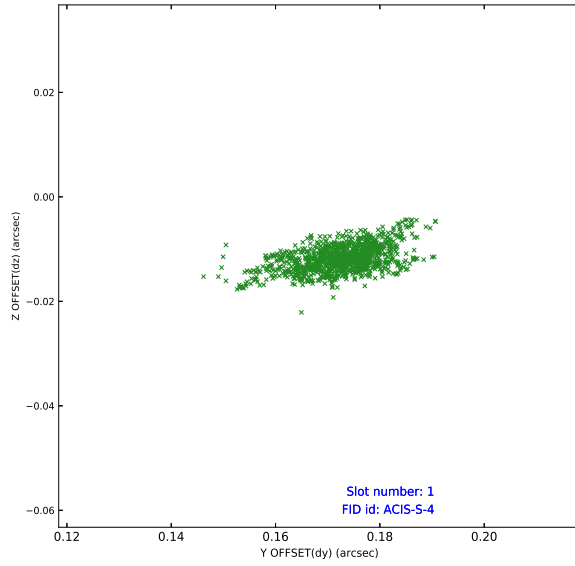


2.5 FID Slots

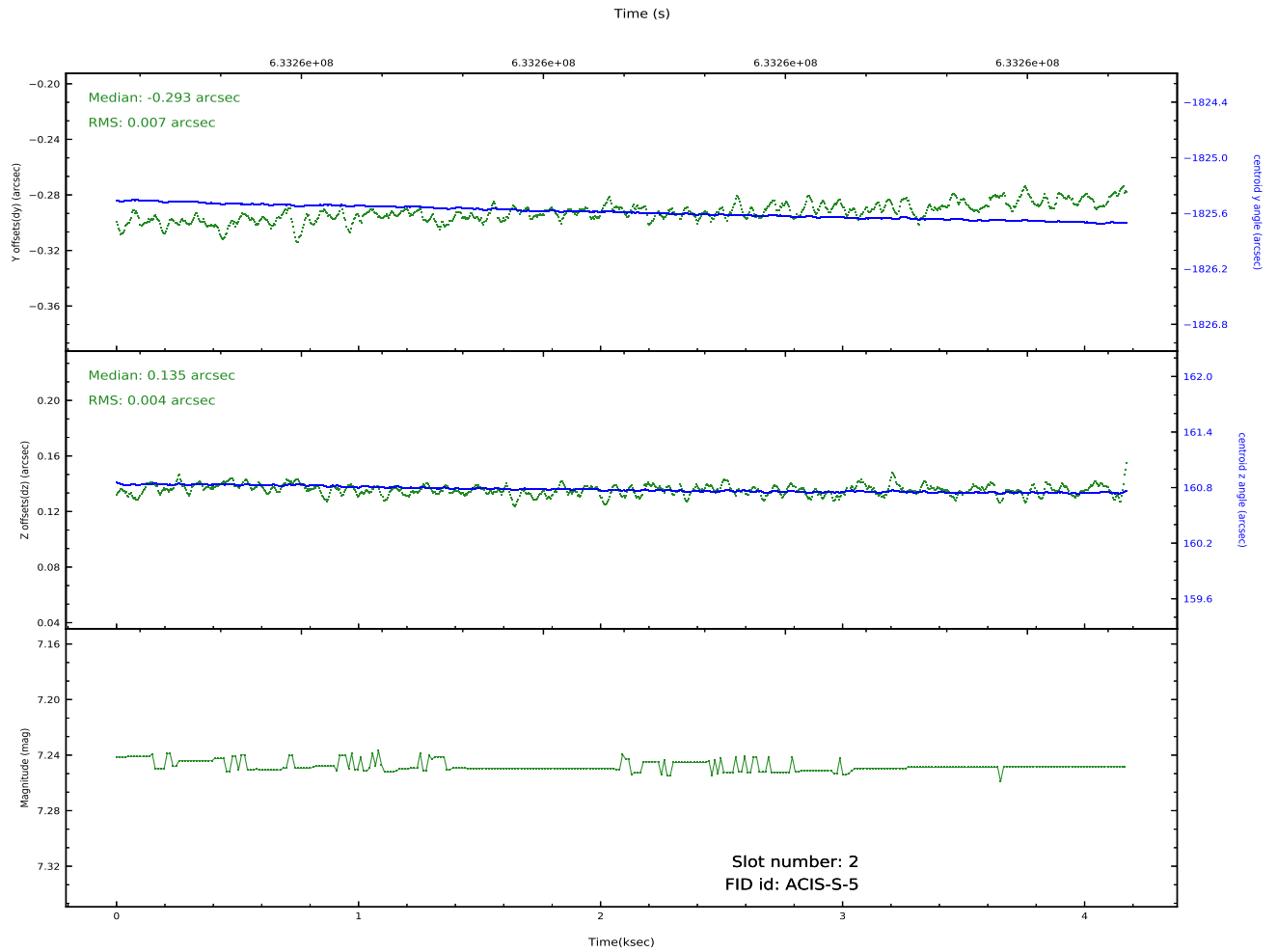
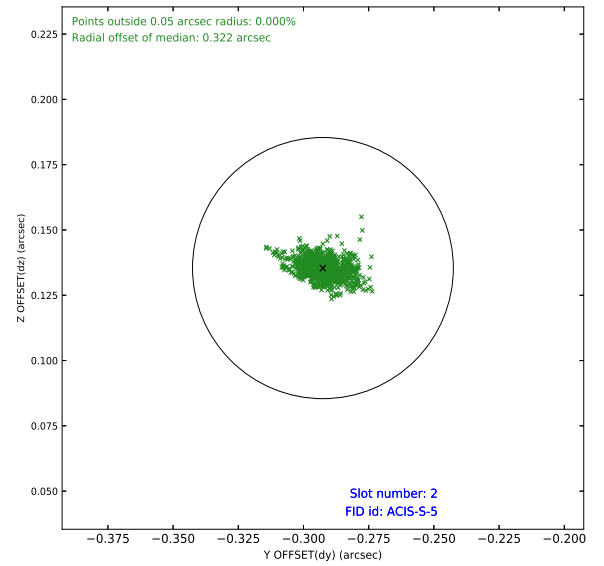
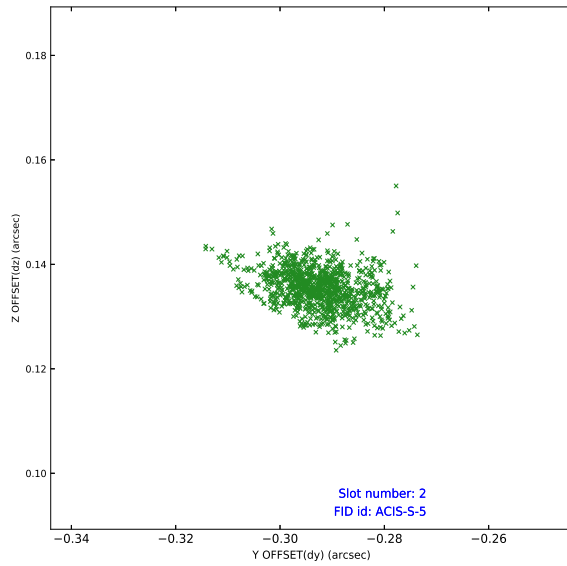
2.5.1 Slot 0



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)	2020.10.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.0915769045353

A.2 Comments

Window constraint was met.