

V&V Reference Report

L2 ASCDS Version : 10.9

Observation 23355 - L2 Version 1
Chandra X-Ray Center

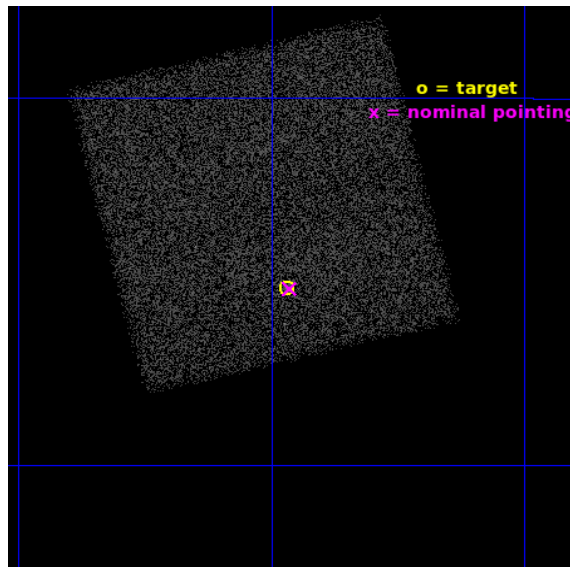
L2 Processing Date : Aug 5 2020

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1 Front

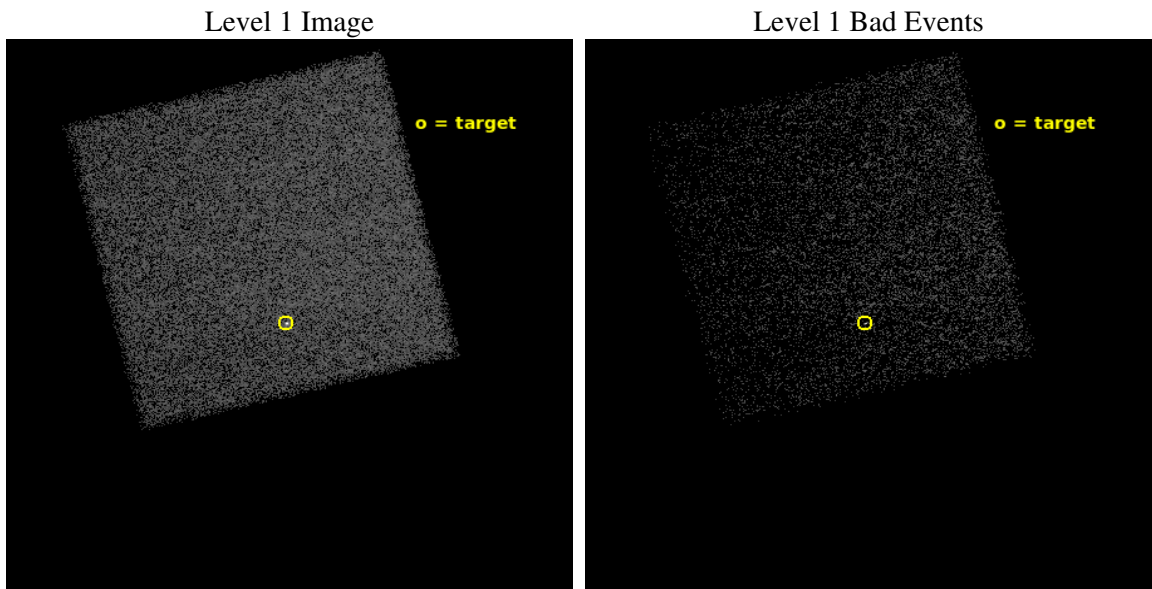
seq_num	201361	Sequence number
obs_id	23355	Observation id
title	Stellar activity with TESS and Chandra	Proposal title
observer	Hans Guenther	Principal investigator
object	2RXS J161358.3-281507	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	243.492142	Observer's specified target RA [deg]
dec_targ	-28.252672	Observer's specified target Dec [deg]
ra_nom	243.49077330068	Nominal RA [deg]
dec_nom	-28.253152836836	Nominal Dec [deg]
roll_nom	256.14103627577	Nominal Roll [deg]
revision	1	Processing version of data
ontime	10090.592077255	Sum of GTIs [s]
liveltime	9954.4156708777	Livetime [s]
ontime7	10090.592077255	Sum of GTIs [s]
l2events	45034	Number of level 2 events



2 OBI

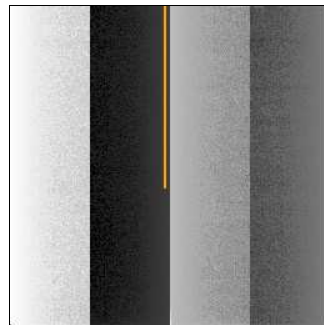
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.9	Processing system revision	ontime	10090.592077255	Sum of GTIs [s]
caldbver	4.9.2	 	ontime7	10090.592077255	Sum of GTIs [s]
date	2020-08-05T21:30:18	Date and time of file creation	l1events	102563	Number of level 1 events
revision	1	Processing version of data			

2.1.4 Events

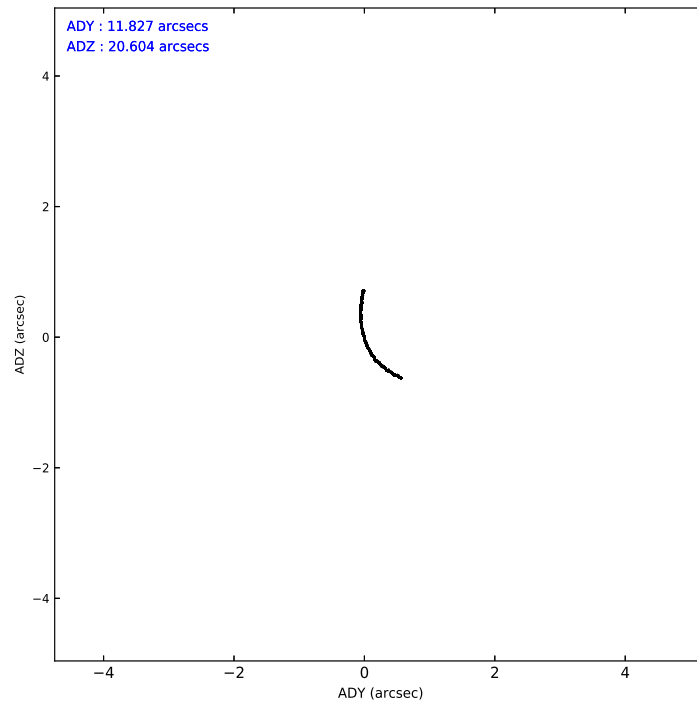
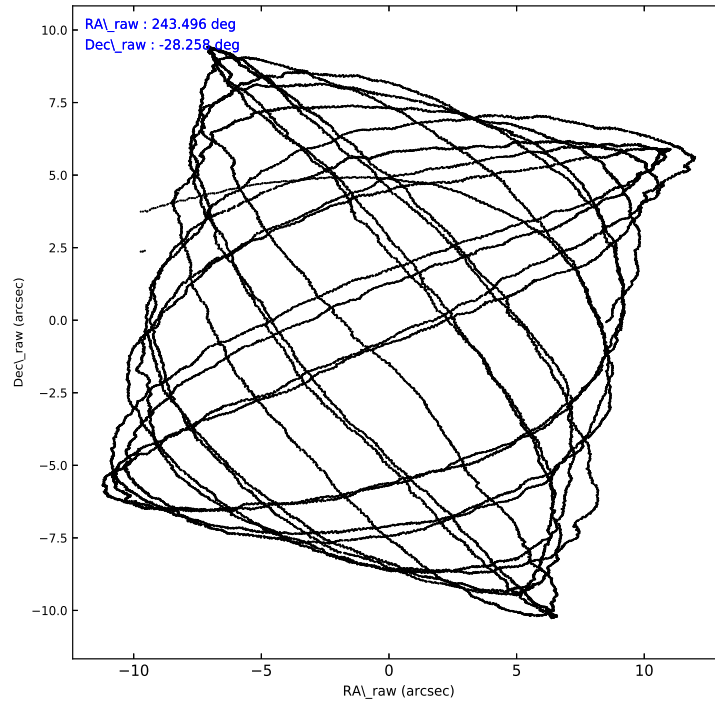
	ccd 7
level 1 events	102563
rejected events	56216
rejected %	54%

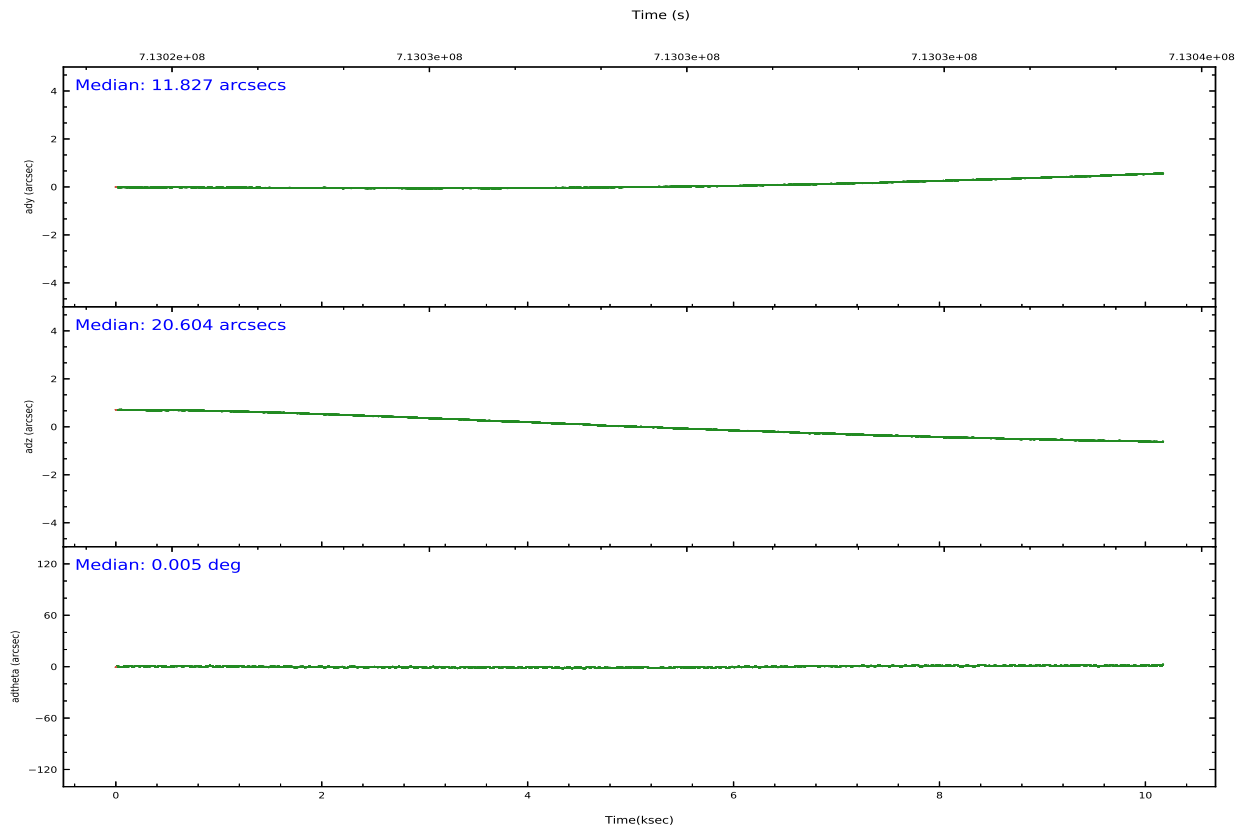
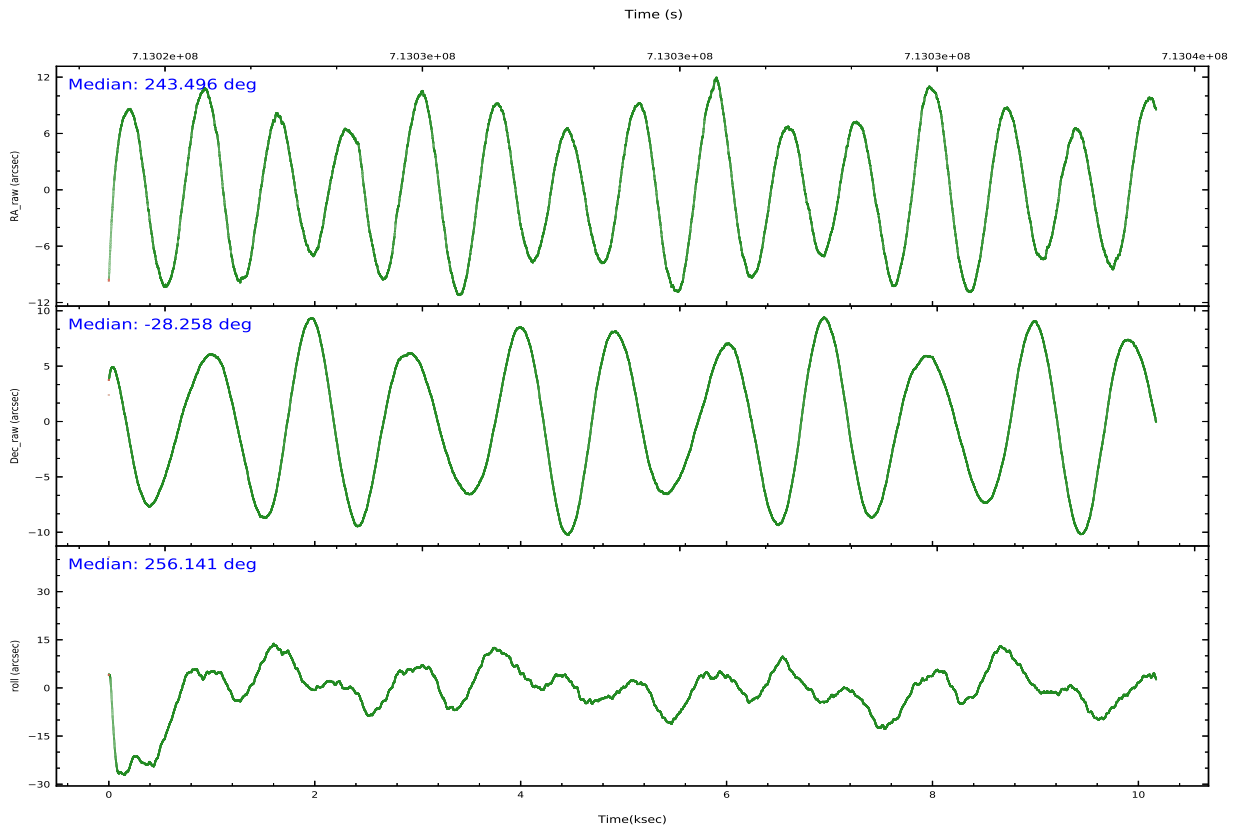
	ccd 7
grade 0 events	4163
	4%
grade 1 events	175
	0%
grade 2 events	10169
	9%
grade 3 events	3711
	3%
grade 4 events	3556
	3%
grade 5 events	10033
	9%
grade 6 events	24776
	24%
grade 7 events	45980
	44%

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	243.487222	243.49077330068	Subarray requested	NONE	NONE
[deg] Pointing Dec	-28.231844	-28.253152836836	Alternating exposures requested	N	N
[deg] Pointing Roll	255.997670	256.14103627577	[s] Primary exposure time	0.000000	3
[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)	713024626.184000	713023641.2696199			
Observation start date	2020-08-05T14:22:37	2020-08-05T14:07:21			
[s] Observation end time (MET)	713034626.184000	713035309.87033			
Observation end date	2020-08-05T17:09:17	2020-08-05T17:21:49			
Read mode	TIMED	TIMED			

2.3 Aspect





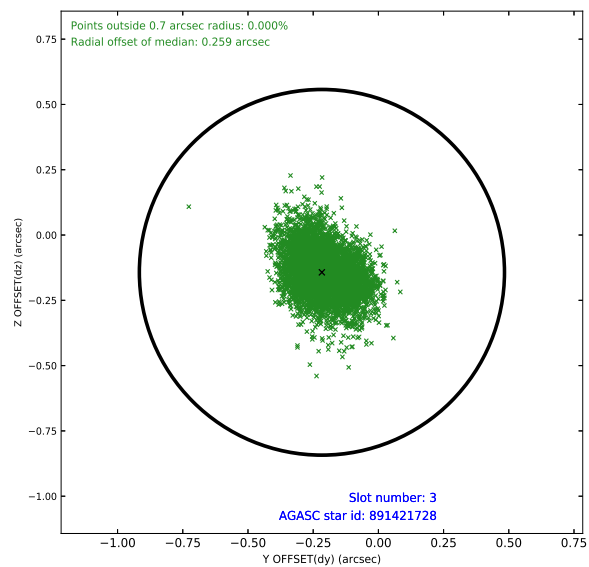
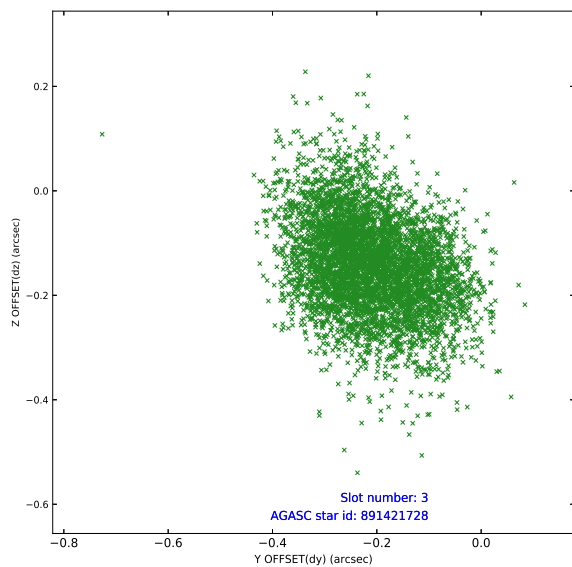
Slot Statistics

slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-3	7.24	2482	1.000	0.147	-0.175	0.013	0.019	0.000000	0.000000	48.24	-1871
1	FID		ACIS-S-4	7.11	2482	1.000	0.078	0.008	0.010	0.016	0.000000	0.000000	2148.65	165
2	FID		ACIS-S-5	7.10	2482	1.000	-0.252	0.176	0.010	0.028	0.000000	0.000000	-1817.22	160
3	GUIDE	used	891421728	8.68	4958	1.000	-0.216	-0.143	0.132	0.216	243.579515	-27.895015	-1246.48	-8
4	GUIDE	used	891945208	8.15	4953	1.000	0.303	-0.108	0.139	0.221	243.210820	-28.132006	-134.53	-938
5	GUIDE	used	891945552	9.03	4959	1.000	0.177	-0.035	0.192	0.317	244.189148	-28.273348	-386.61	2196
6	GUIDE	used	891945256	9.97	4941	1.000	-0.003	0.217	0.262	0.428	244.205842	-28.135655	-881.09	2131
7	GUIDE	used	891423648	9.02	4959	1.000	-0.267	0.066	0.127	0.215	243.865312	-27.777698	-1875.28	773

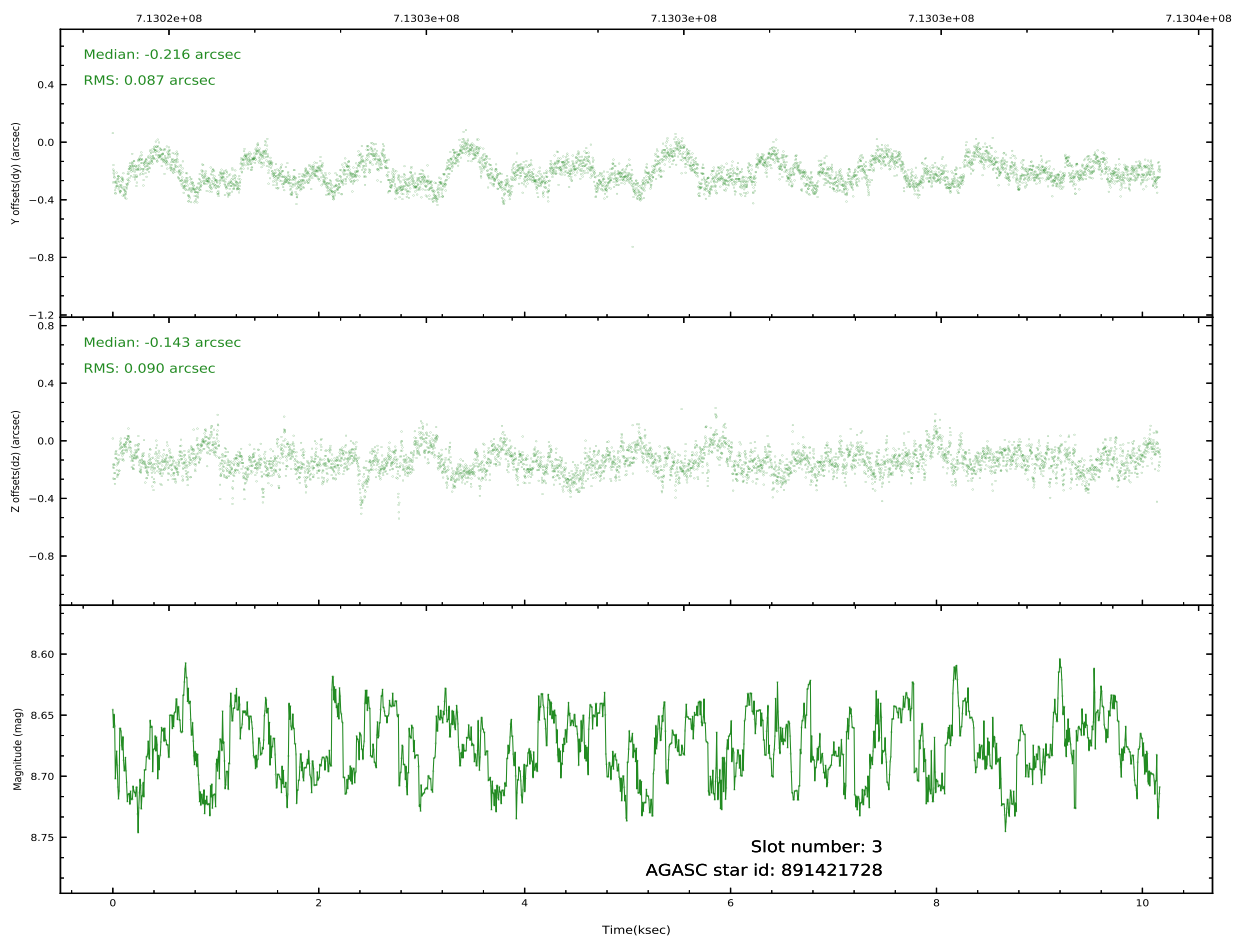
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2.4 Star Slots

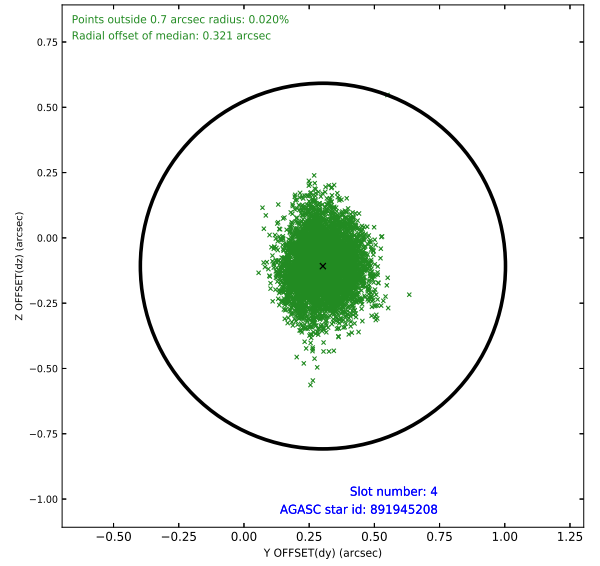
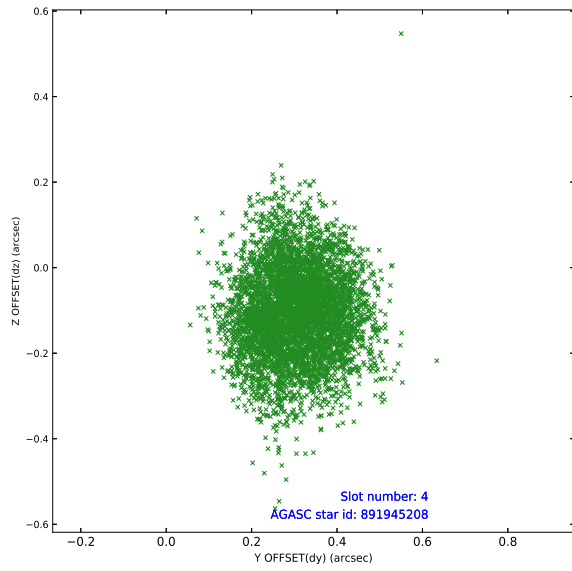
2.4.1 Slot 3



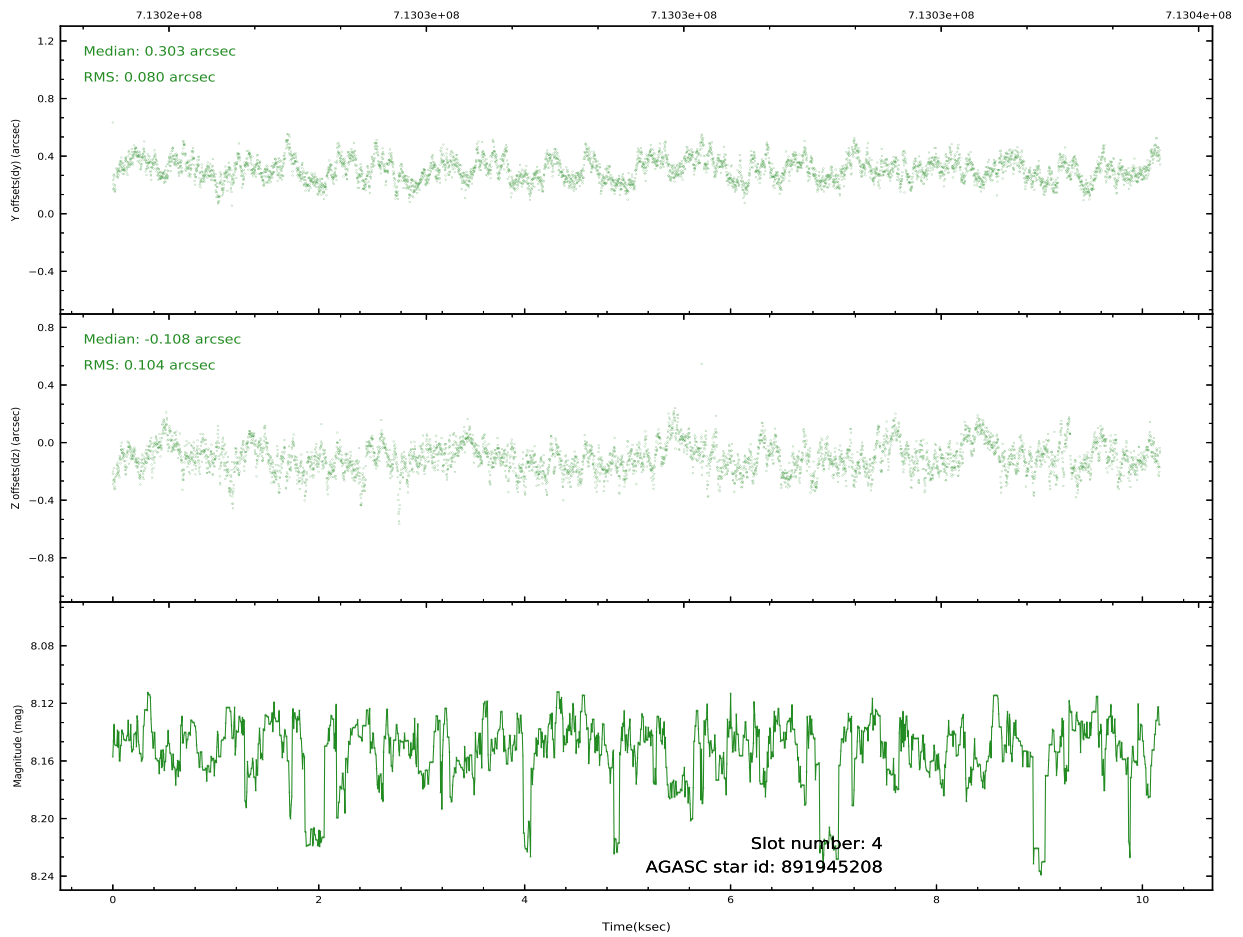
Time (s)



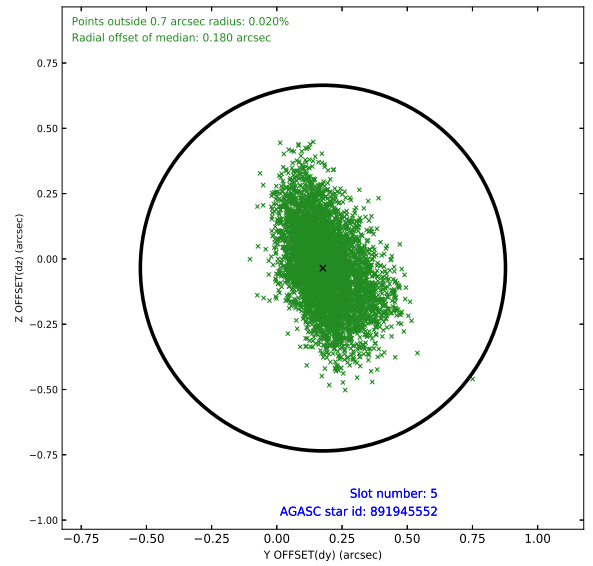
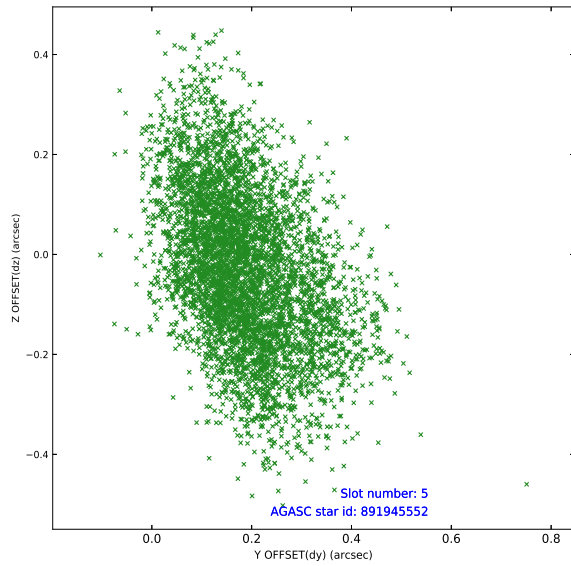
2.4.2 Slot 4



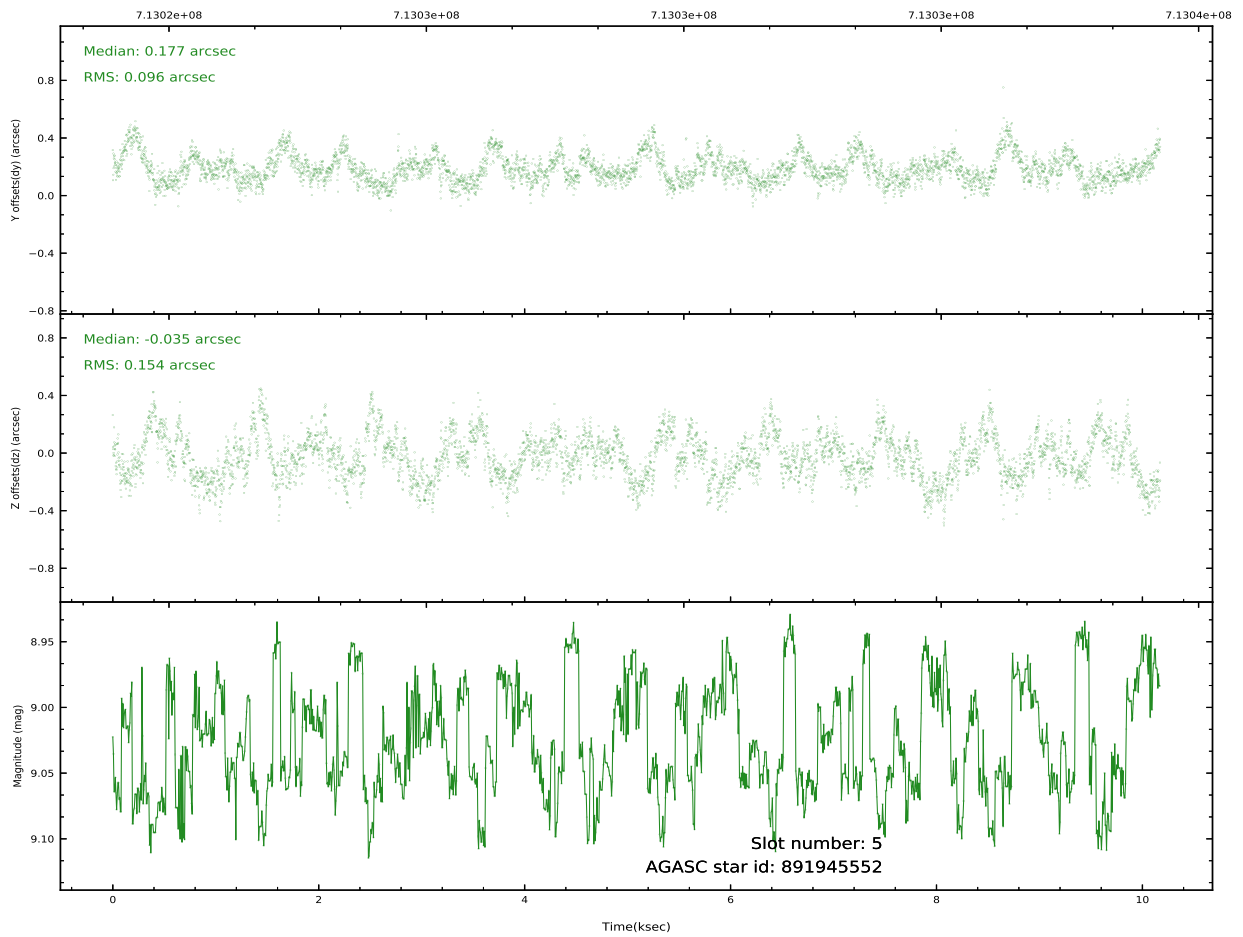
Time (s)



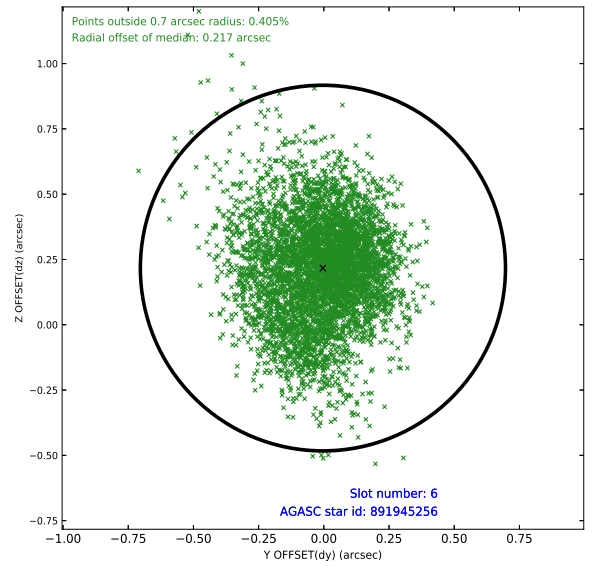
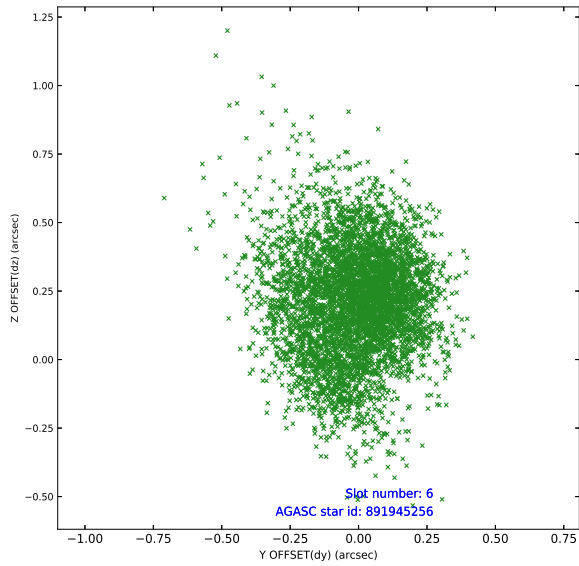
2.4.3 Slot 5



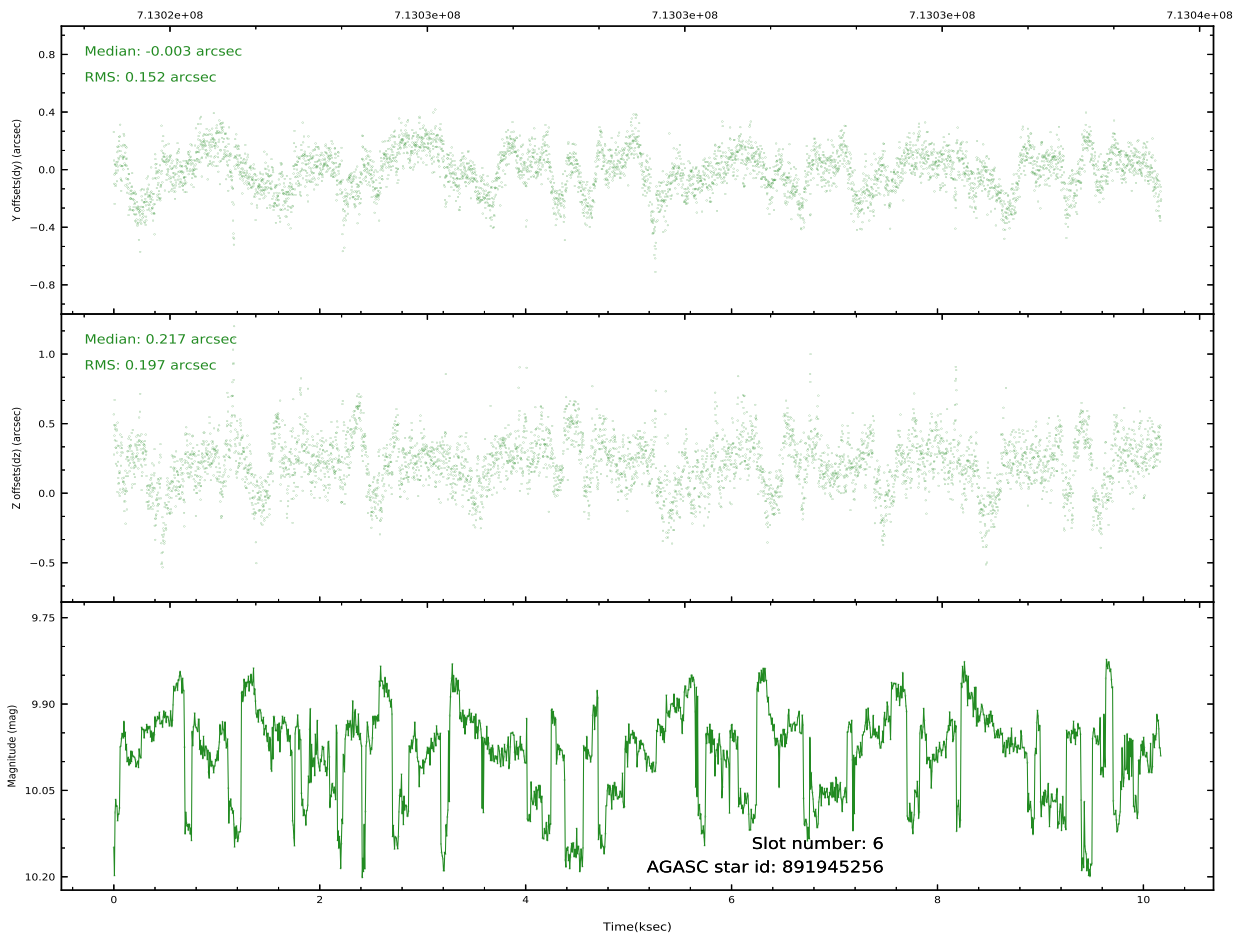
Time (s)



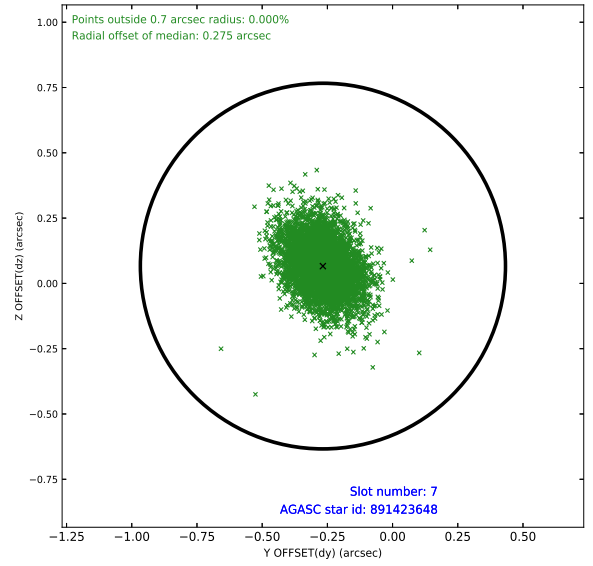
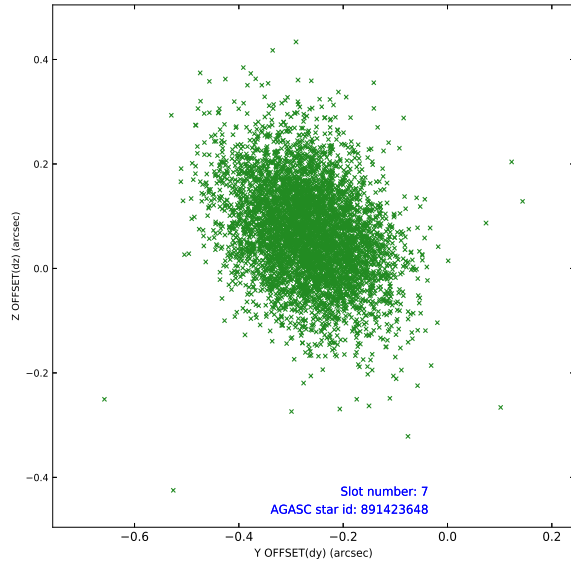
2.4.4 Slot 6



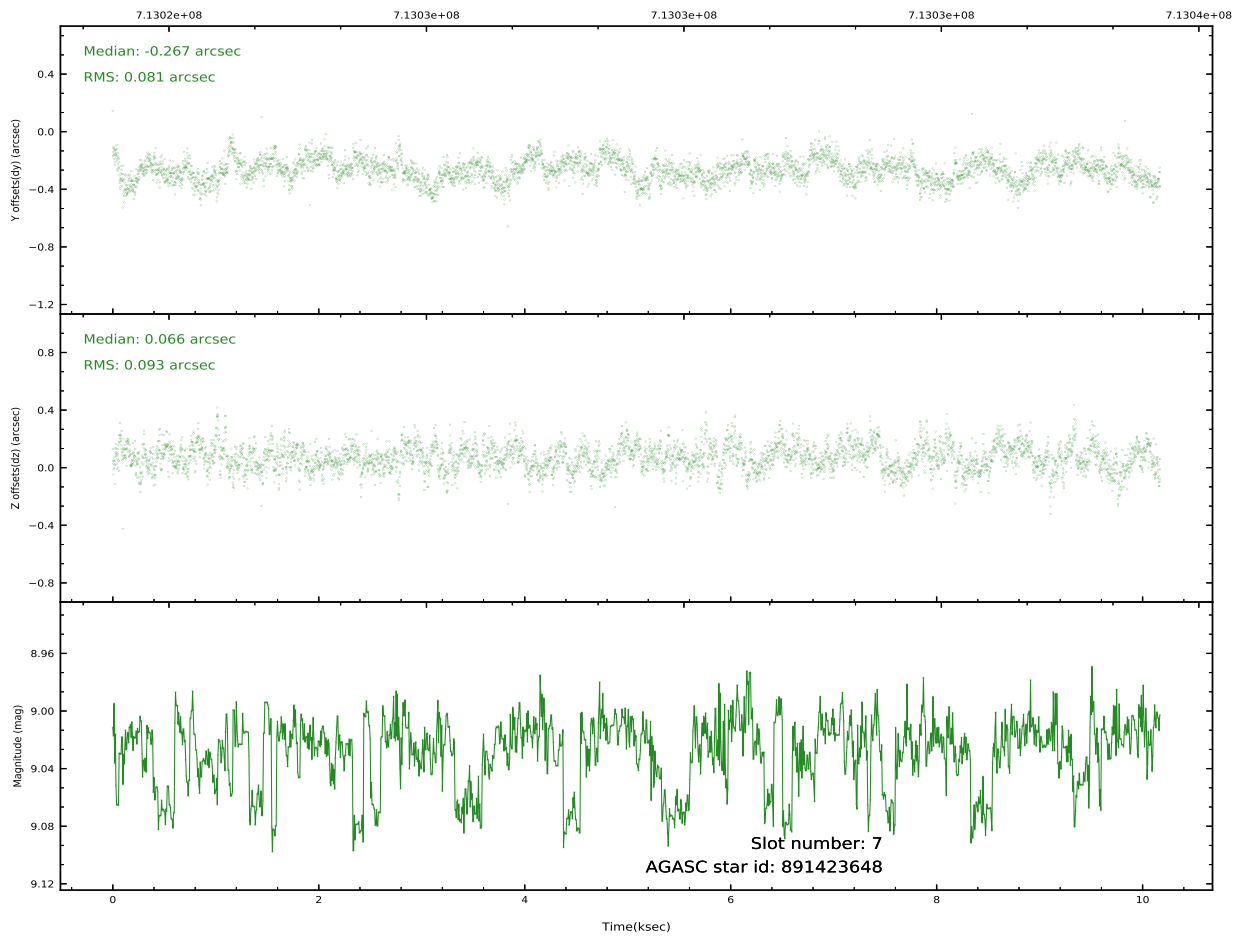
Time (s)



2.4.5 Slot 7

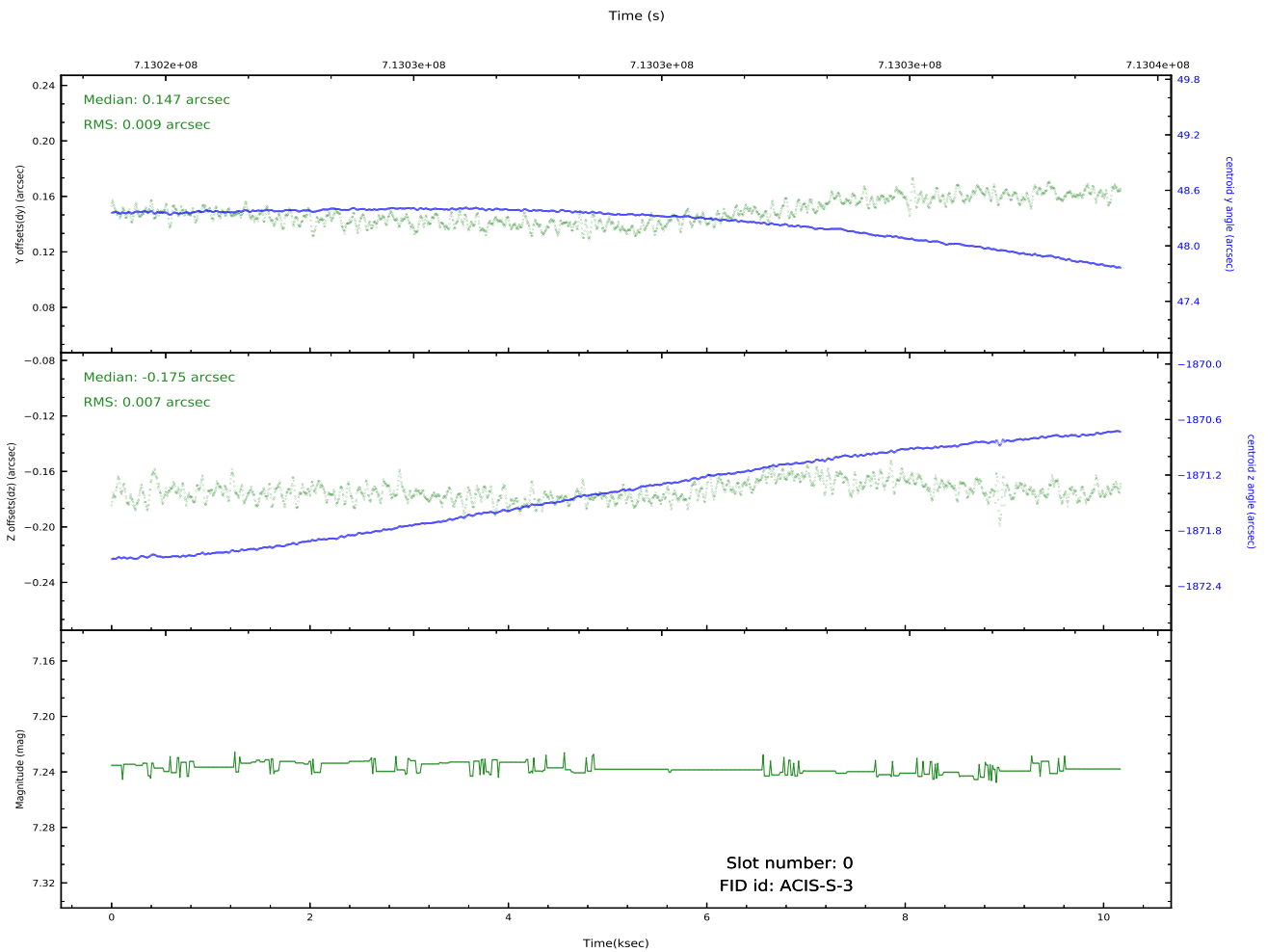
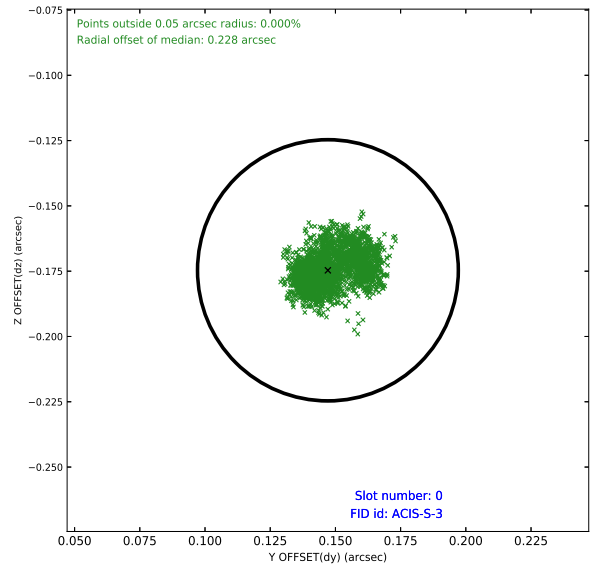
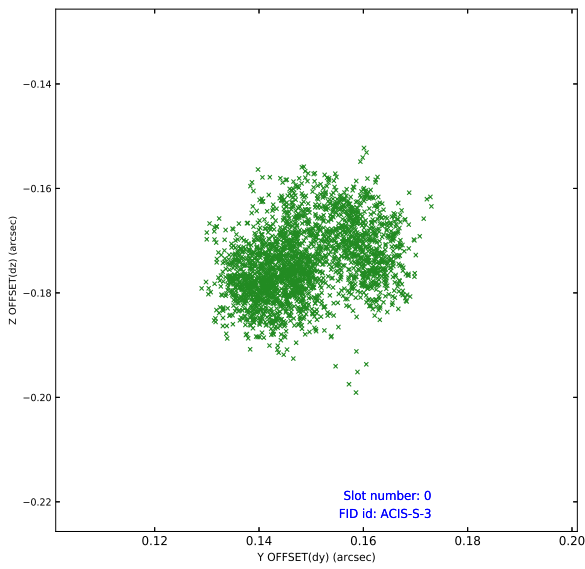


Time (s)

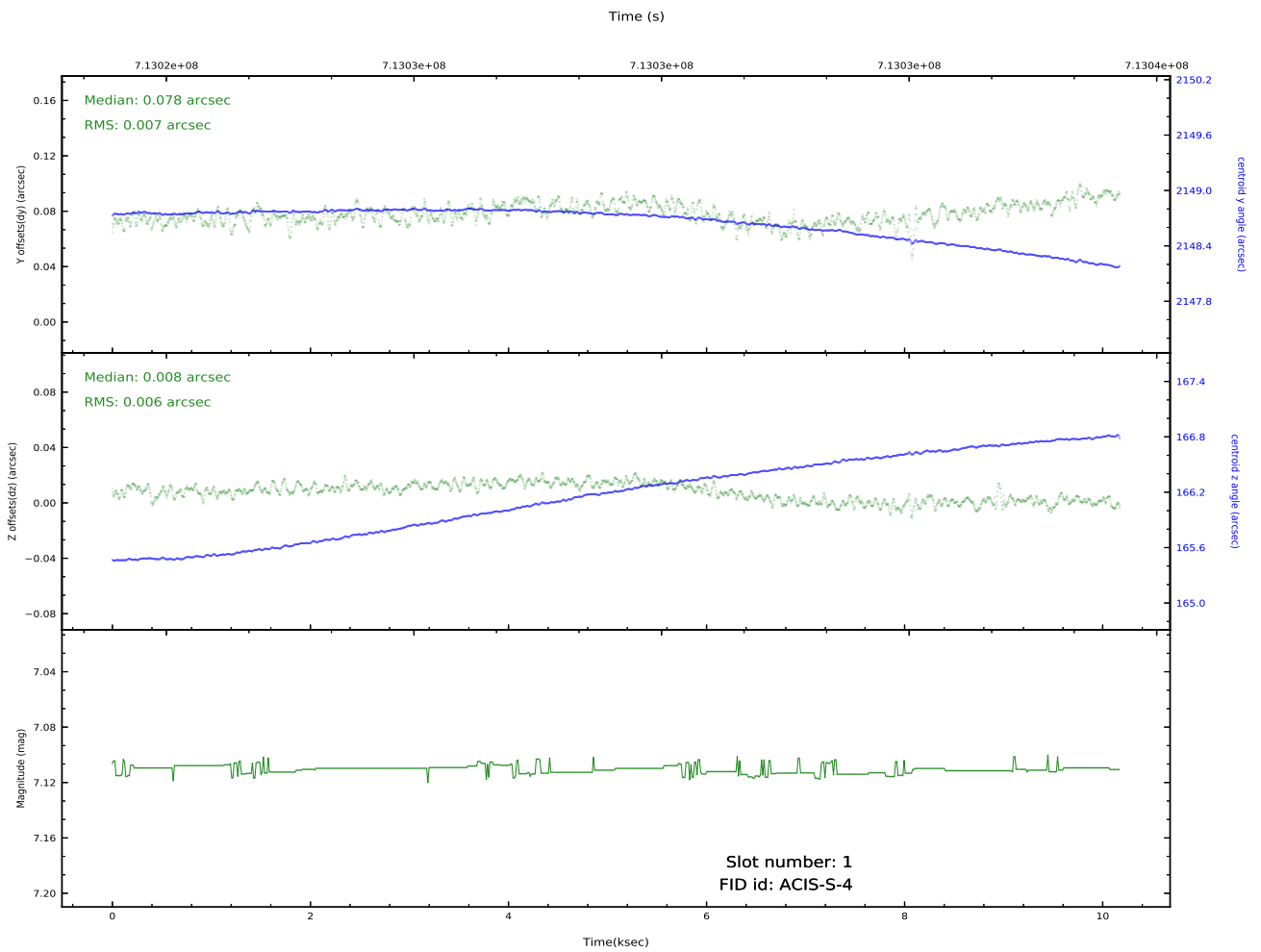
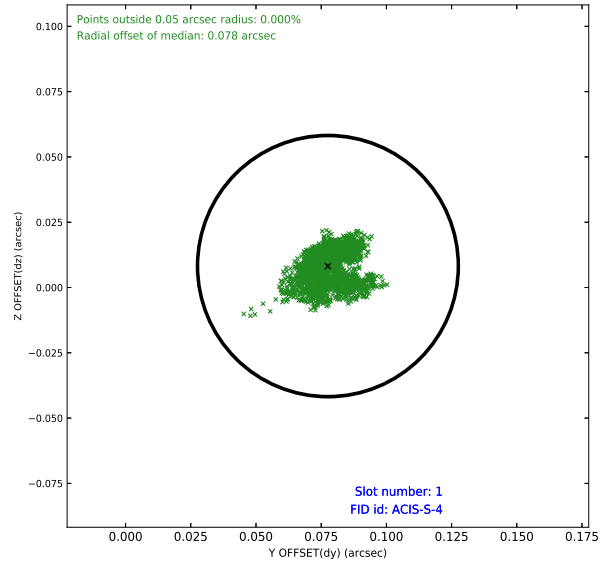
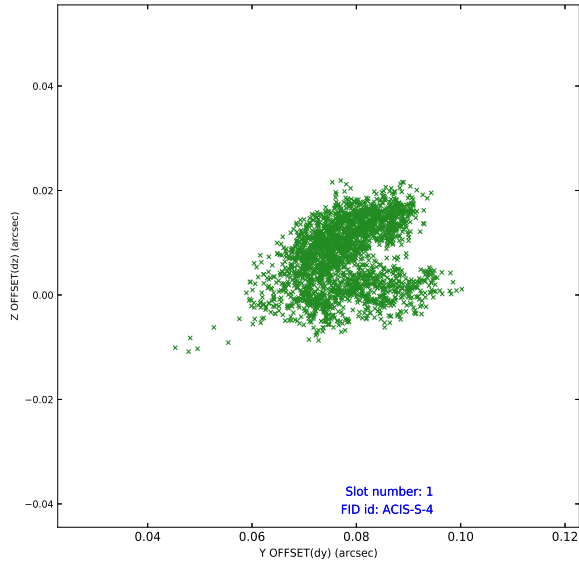


2.5 FID Slots

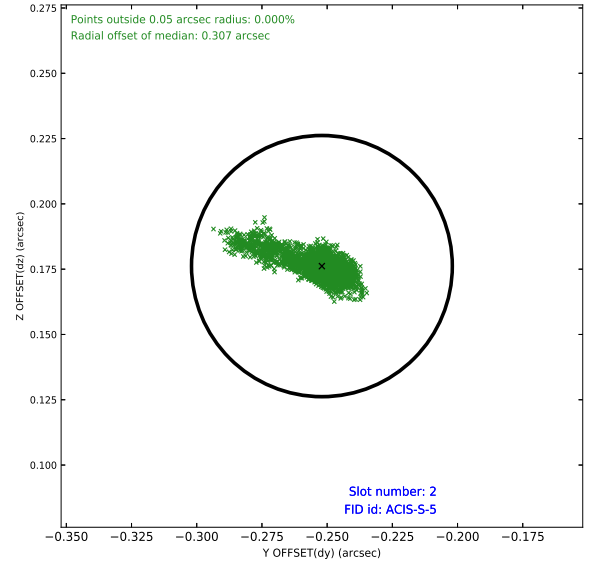
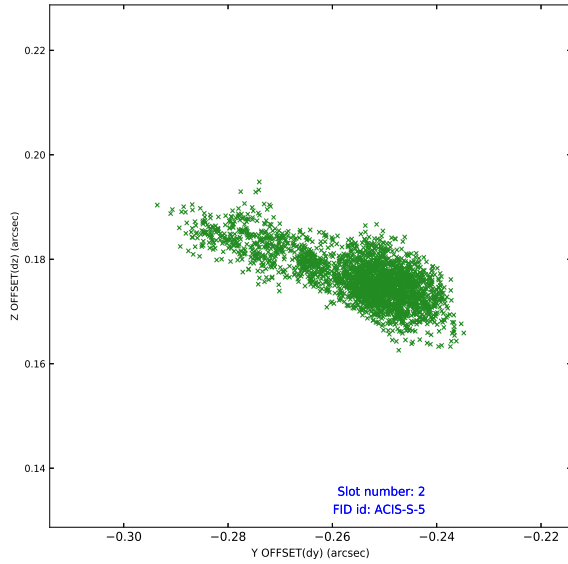
2.5.1 Slot 0



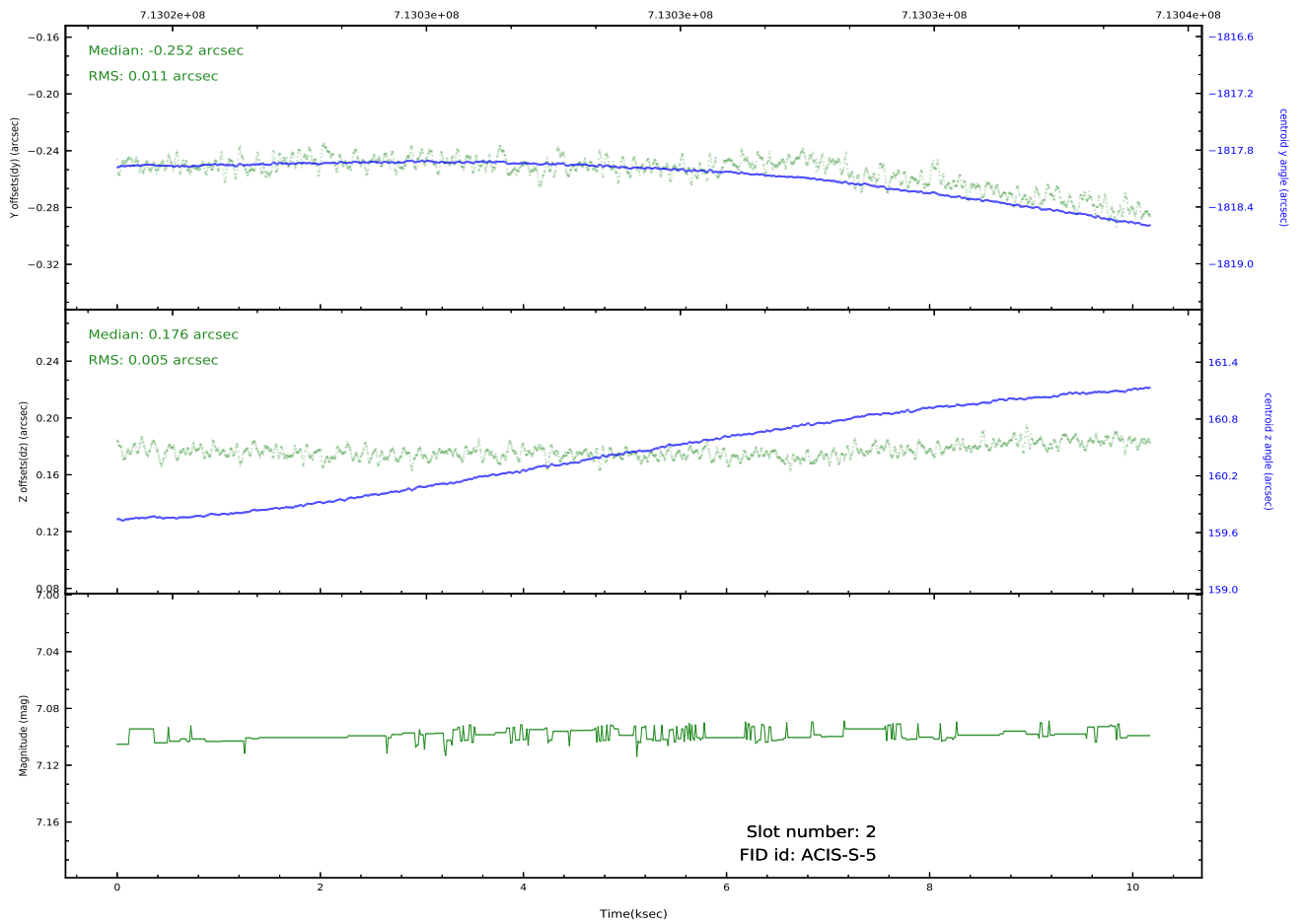
2.5.2 Slot 1



2.5.3 Slot 2



Time (s)



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2020.08.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.090592077255

A.2 Comments