

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20851 - L2 Version 2
Chandra X-Ray Center

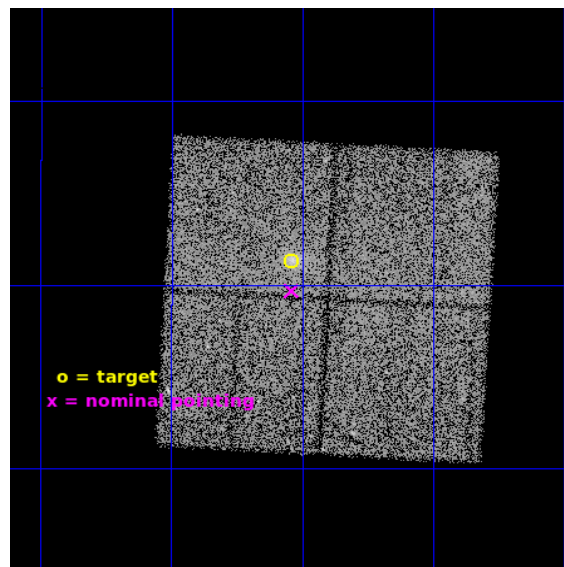
L2 Processing Date : Oct 24 2020

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1 Front

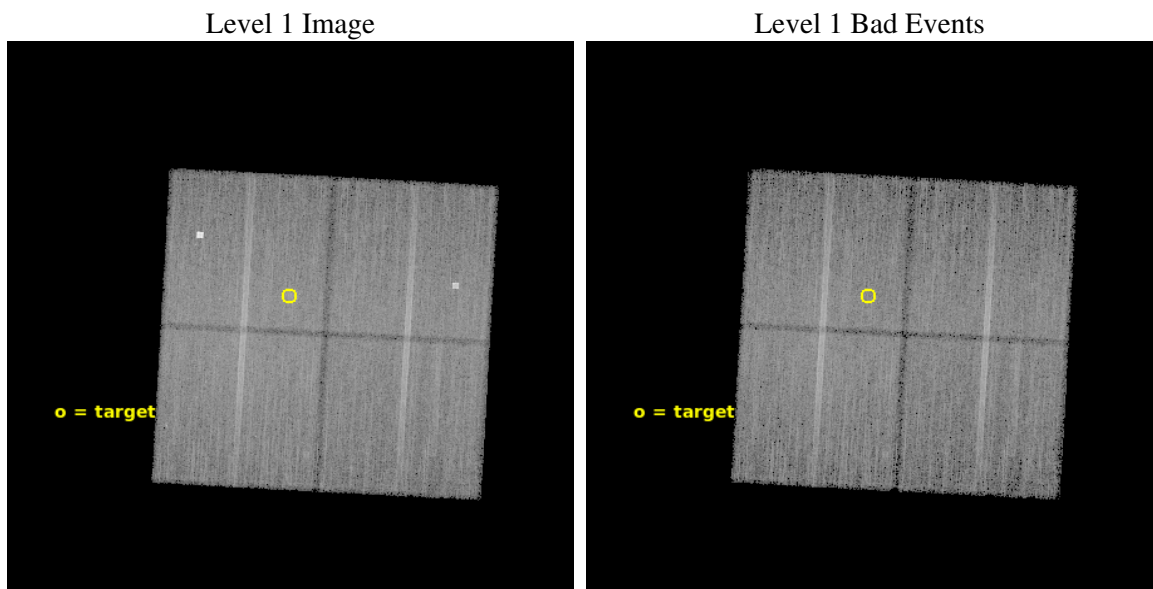
seq_num	801803	Sequence number
obs_id	20851	Observation id
title	The most distant X-ray luminous cluster discovered by ROSAT	Propos
observer	Harald Ebeling	Principal investigator
object	eMACSJ0324.0+2421	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	51.01	Observer's specified target RA [deg]
dec_targ	24.355	Observer's specified target Dec [deg]
ra_nom	51.009852406133	Nominal RA [deg]
dec_nom	24.328255583533	Nominal Dec [deg]
roll_nom	273.19943718423	Nominal Roll [deg]
revision	2	Processing version of data
ontime	31734.44436574	Sum of GTIs [s]
livetime	31319.810487543	Livetime [s]
ontime0	31731.180175543	Sum of GTIs [s]
ontime1	31731.221235752	Sum of GTIs [s]
ontime2	31721.839014292	Sum of GTIs [s]
ontime3	31734.44436574	Sum of GTIs [s]
l2events	83348	Number of level 2 events



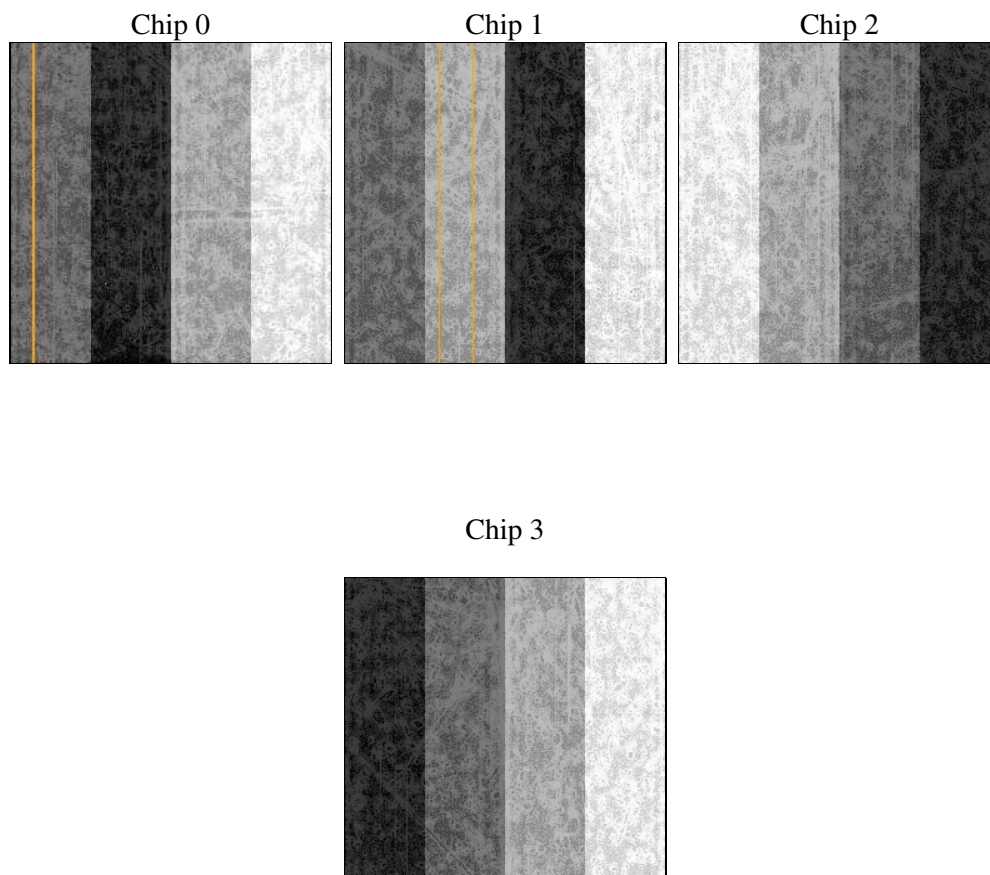
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	31658.893000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	31734.44436574	Sum of GTIs [s]
caldsver	4.9.3	 	ontime0	31731.180175543	Sum of GTIs [s]
date	2020-10-24T05:00:35	Date and time of file creation	ontime1	31731.221235752	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	31721.839014292	Sum of GTIs [s]
			ontime3	31734.44436574	Sum of GTIs [s]
			l1events	914277	Number of level 1 events

2.1.4 Events

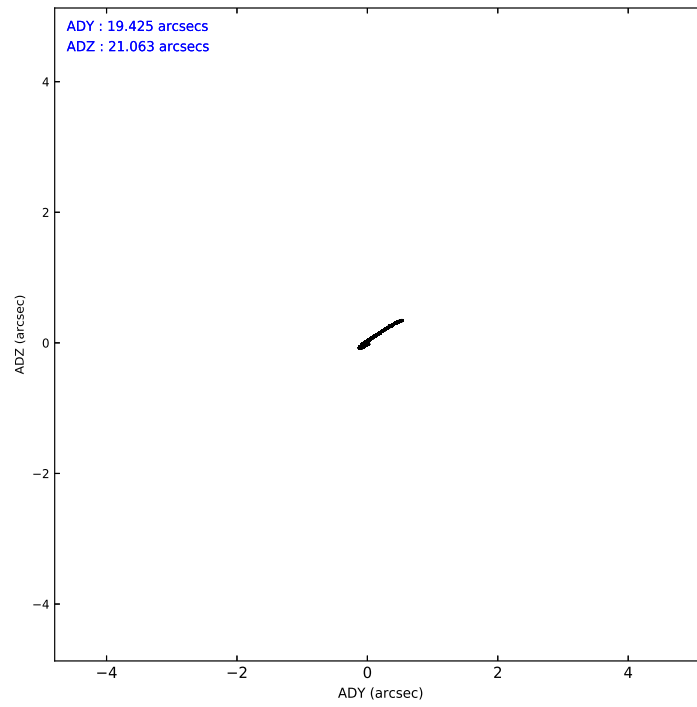
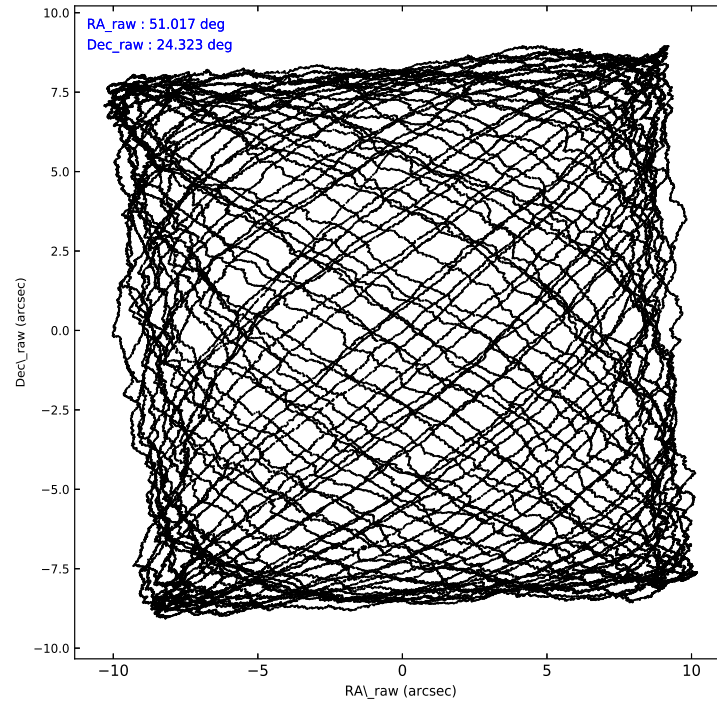
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	211769	223135	241087	238286
rejected events	187280	193497	217269	203788
rejected %	88%	86%	90%	85%

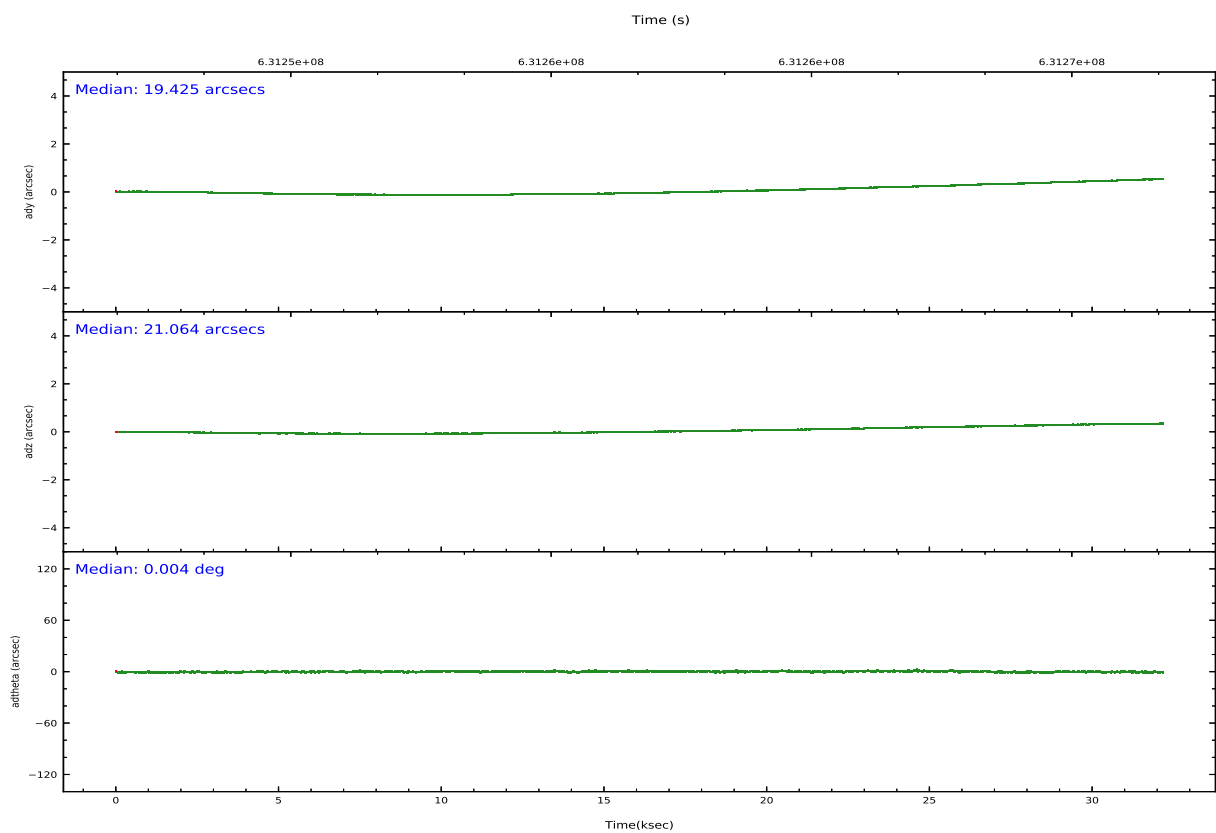
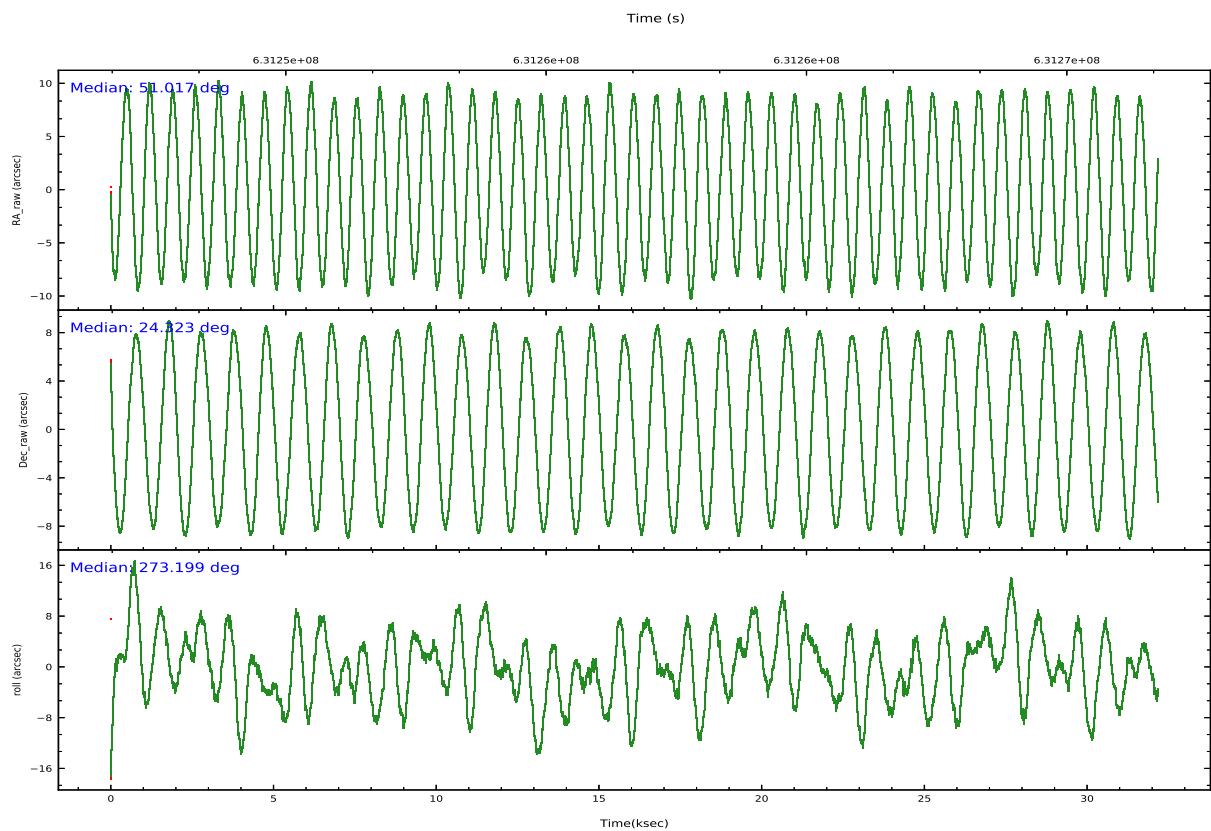
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	8179	11414	8627	18954
	3%	5%	3%	7%
grade 1 events	95	136	152	186
	0%	0%	0%	0%
grade 2 events	6139	6697	5539	5351
	2%	3%	2%	2%
grade 3 events	2475	2487	2307	2518
	1%	1%	0%	1%
grade 4 events	2324	2408	2448	2546
	1%	1%	1%	1%
grade 5 events	9093	9374	8688	10406
	4%	4%	3%	4%
grade 6 events	5375	6637	4903	5134
	2%	2%	2%	2%
grade 7 events	178089	183982	208423	193191
	84%	82%	86%	81%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-0123	ACIS-0123	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	51.000211	51.009852406133	Subarray requested	NONE	NONE
[deg] Pointing Dec	24.345998	24.328255583533	Alternating exposures requested	N	N
[deg] Pointing Roll	273.004034	273.19943718423	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-229.442463	-229.4438428438578			
[mm] SIM translation stage offset	-4.15	-4.148610159071865			
[s] Observation start time (MET)	631243147.184000	631242187.01984			
Observation start date	2018-01-02T01:17:58	2018-01-02T01:03:07			
[s] Observation end time (MET)	631274806.184000	631275802.92182			
Observation end date	2018-01-02T10:05:37	2018-01-02T10:23:22			
Read mode	TIMED	TIMED			

2.3 Aspect



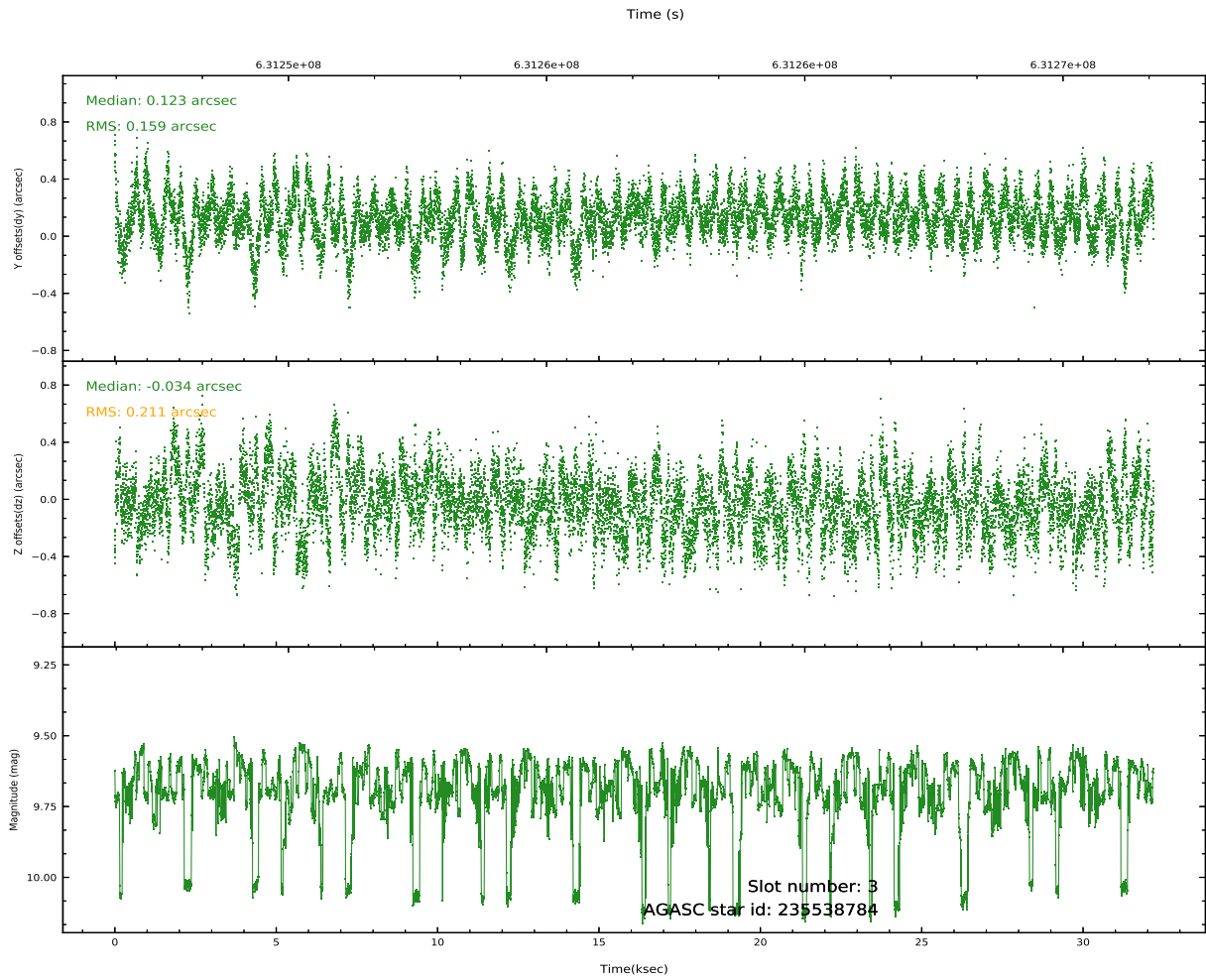
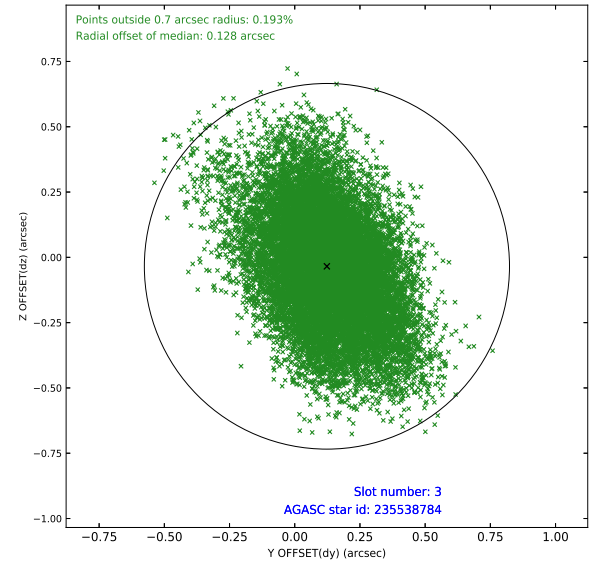
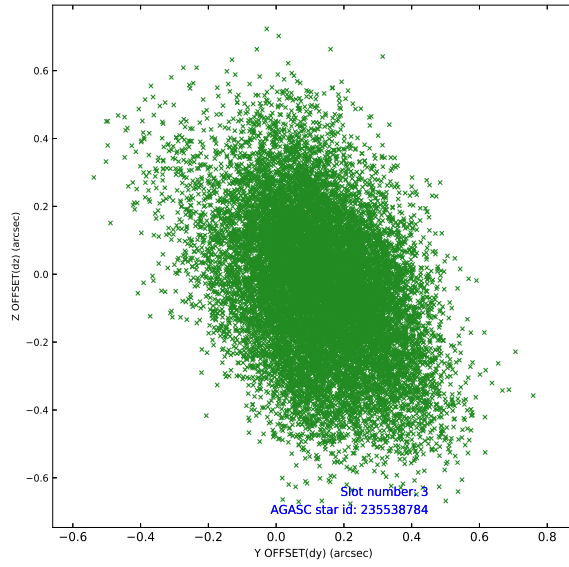


Slot Statistics

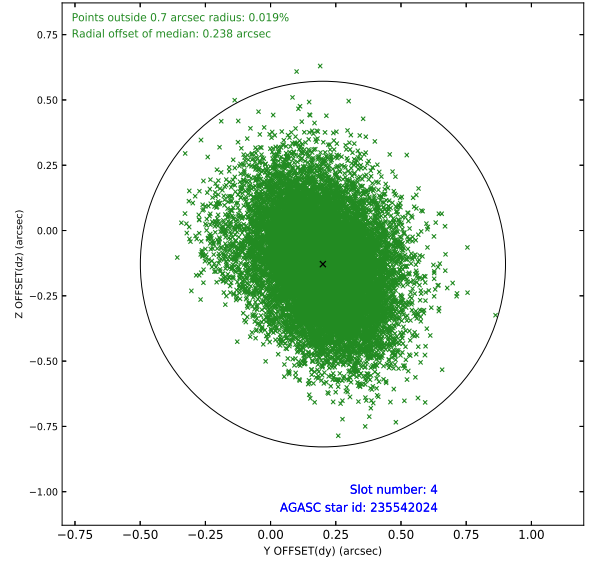
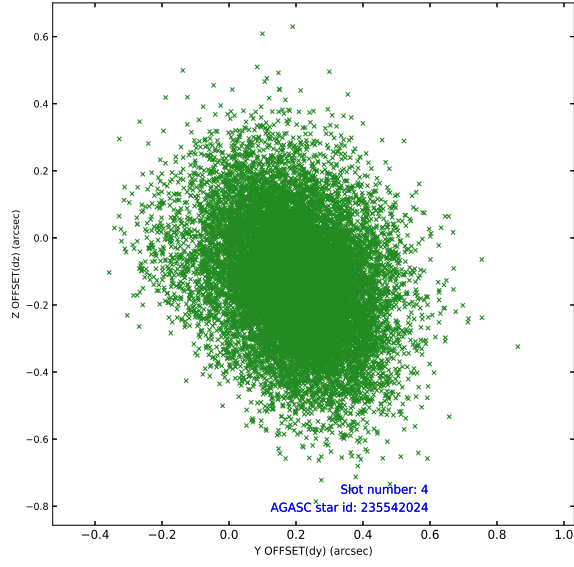
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.27	7848	1.000	0.257	-0.193	0.014	0.025	0.000000	0.000000	919.91	-930
1	FID		ACIS-I-5	7.27	7850	1.000	-0.353	0.209	0.007	0.013	0.000000	0.000000	-1828.58	967
2	FID		ACIS-I-6	7.26	7850	1.000	0.005	0.055	0.014	0.028	0.000000	0.000000	385.40	1612
3	GUIDE	used	235538784	9.68	15539	1.000	0.123	-0.034	0.276	0.470	50.285381	24.114933	702.61	-2388
4	GUIDE	used	235542024	9.75	15672	1.000	0.201	-0.128	0.236	0.399	51.201860	23.876196	1724.01	575
5	GUIDE	used	235547336	9.47	15675	1.000	0.019	0.124	0.168	0.284	51.424711	23.705999	2373.10	1277
6	GUIDE	used	236060960	9.43	15675	1.000	-0.182	-0.097	0.209	0.349	51.073269	24.798815	-1615.60	325
7	GUIDE	used	236065704	7.29	15698	1.000	-0.160	0.131	0.157	0.260	50.650444	24.874634	-1961.59	-1040

2.4 Star Slots

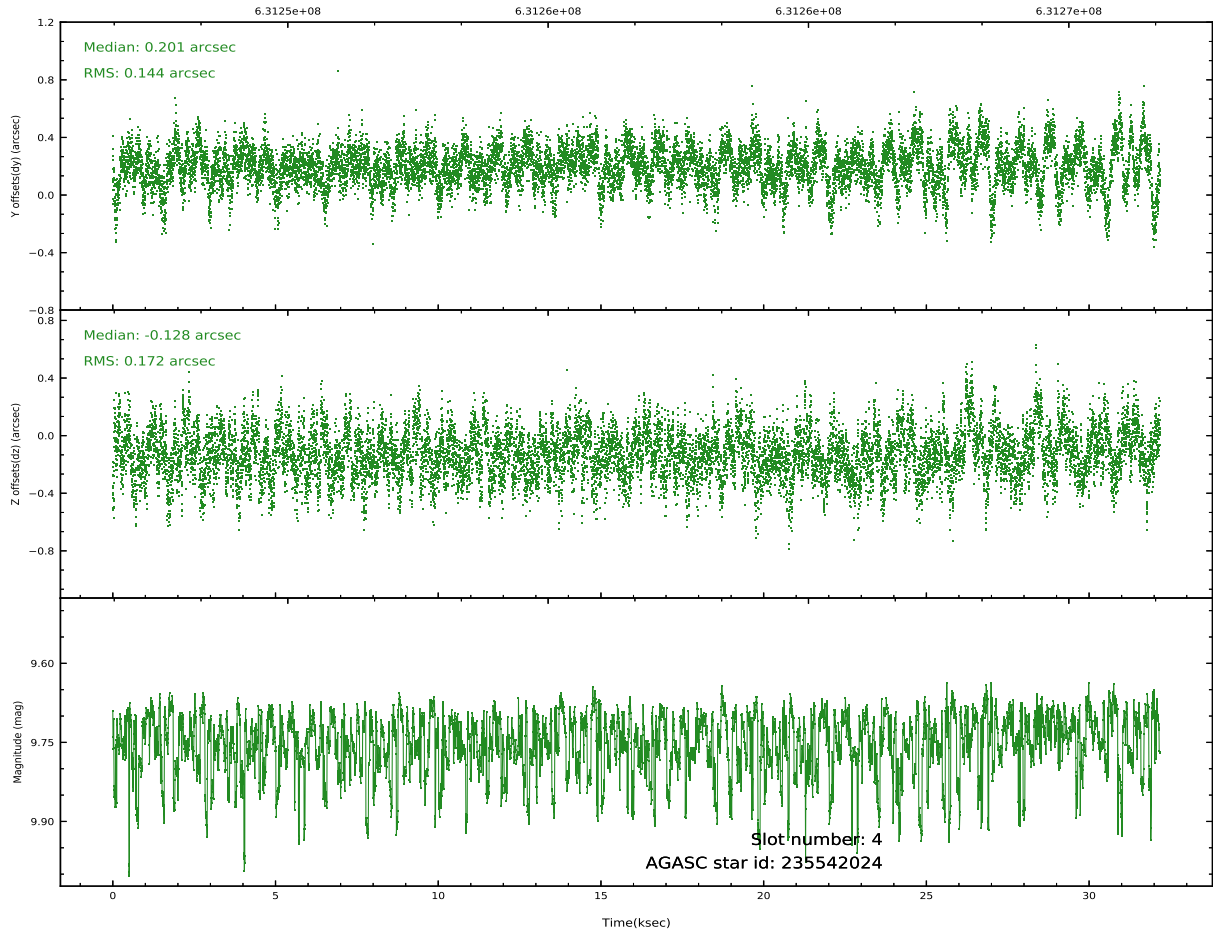
2.4.1 Slot 3



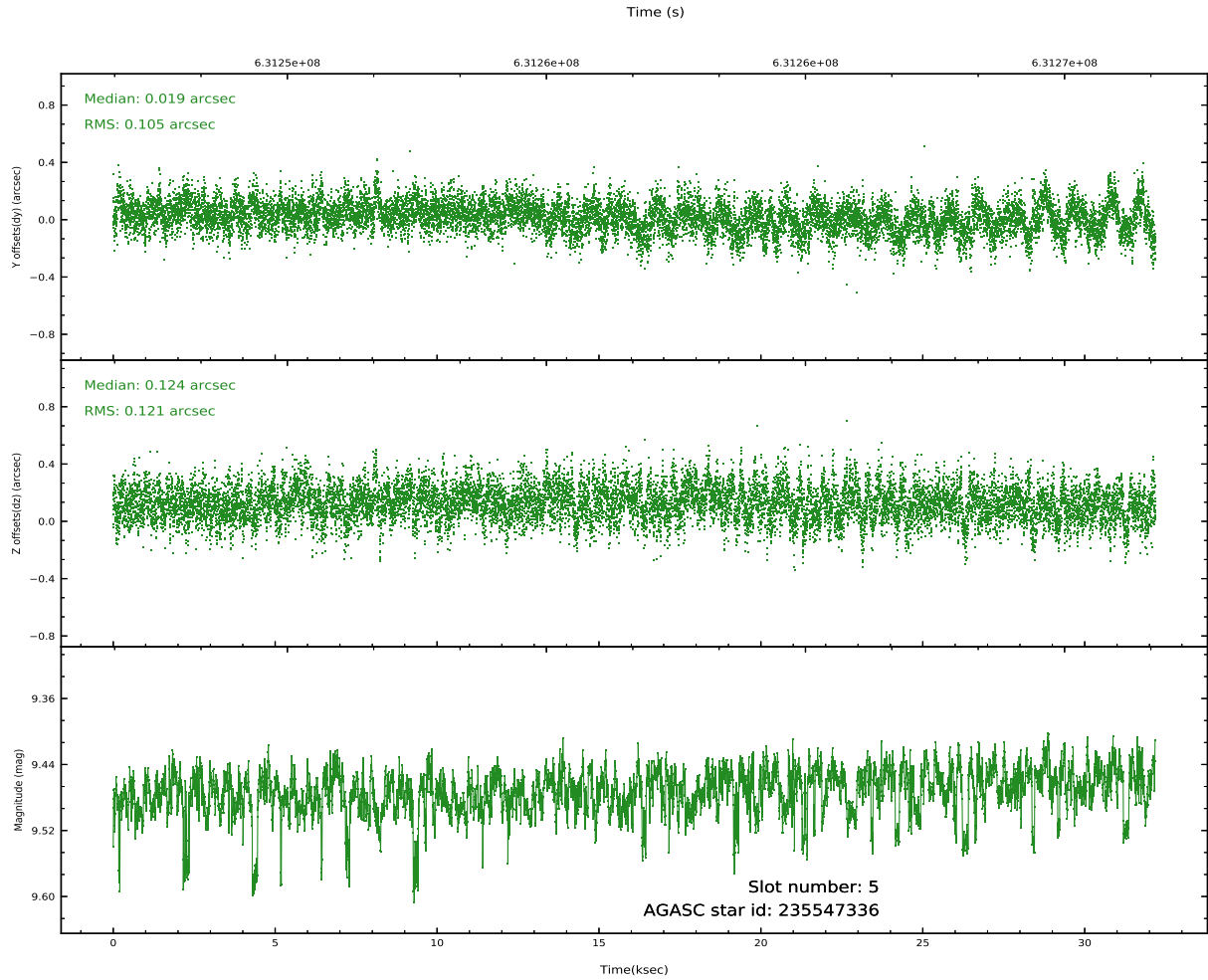
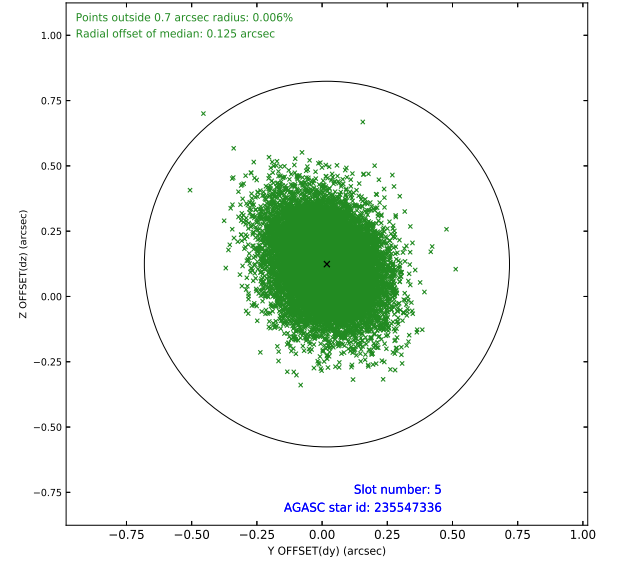
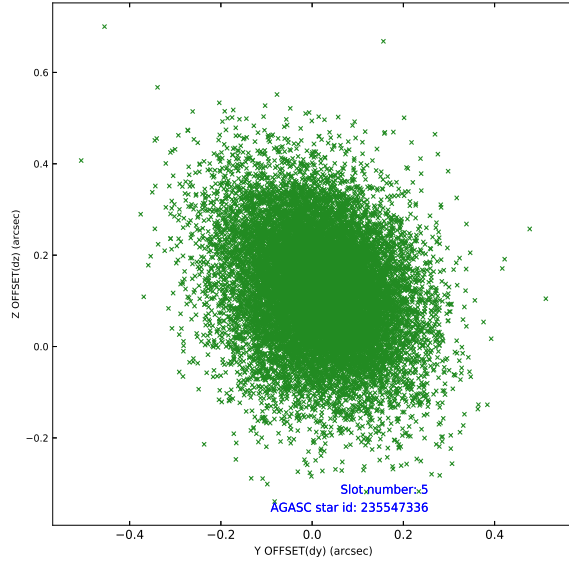
2.4.2 Slot 4



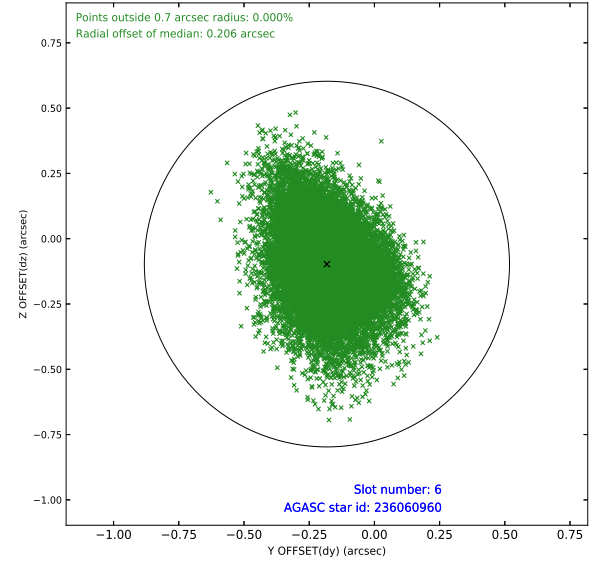
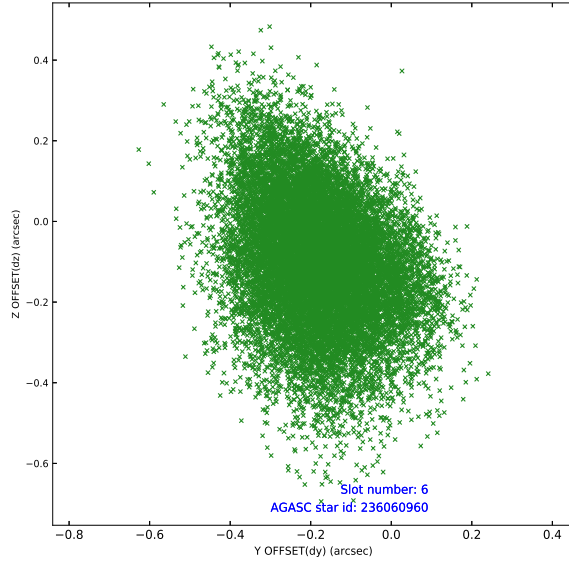
Time (s)



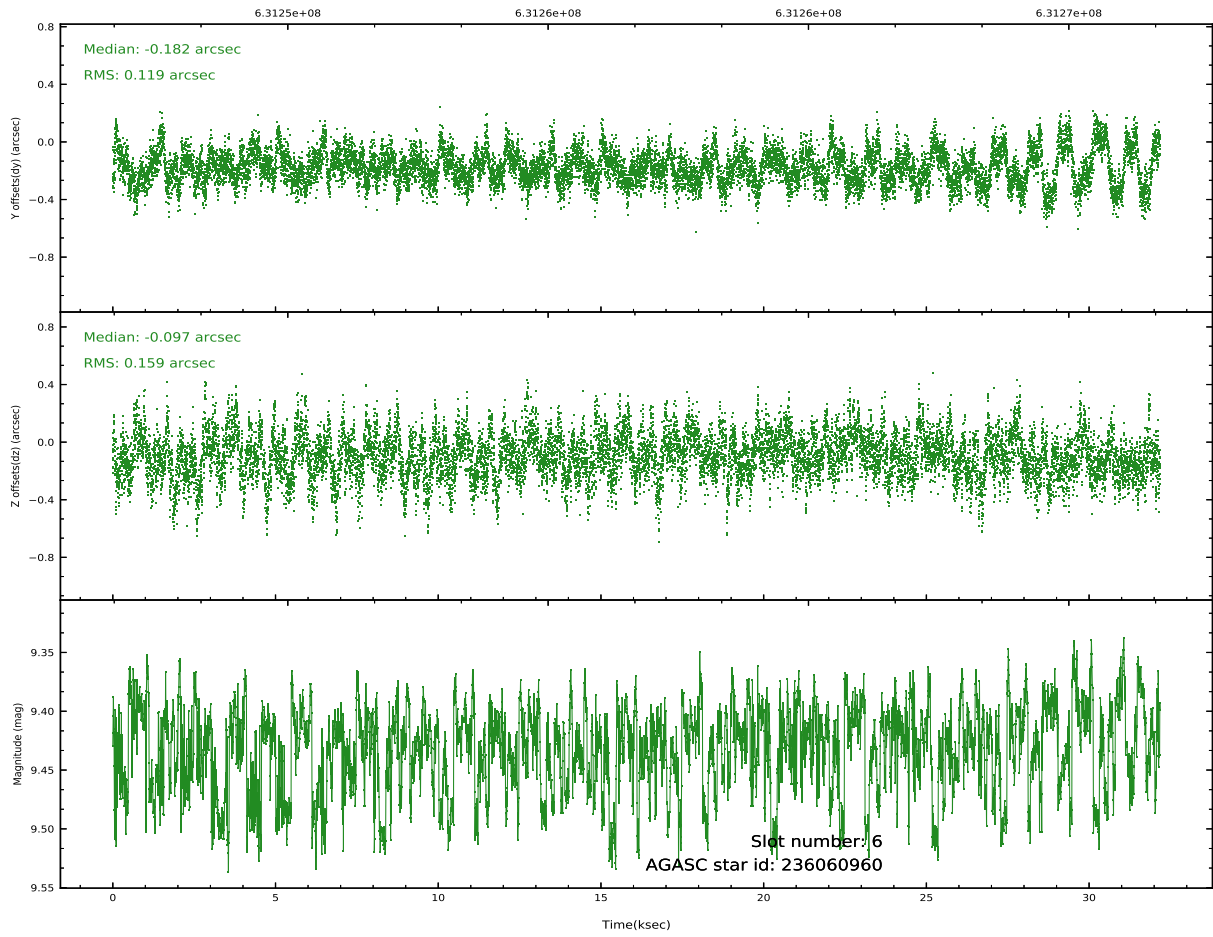
2.4.3 Slot 5



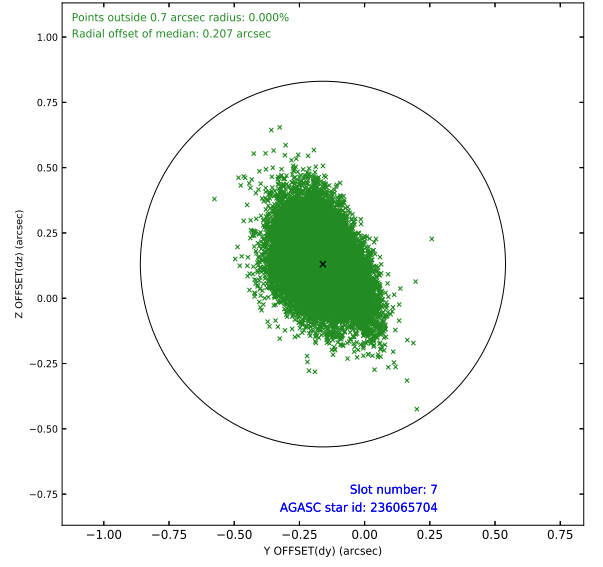
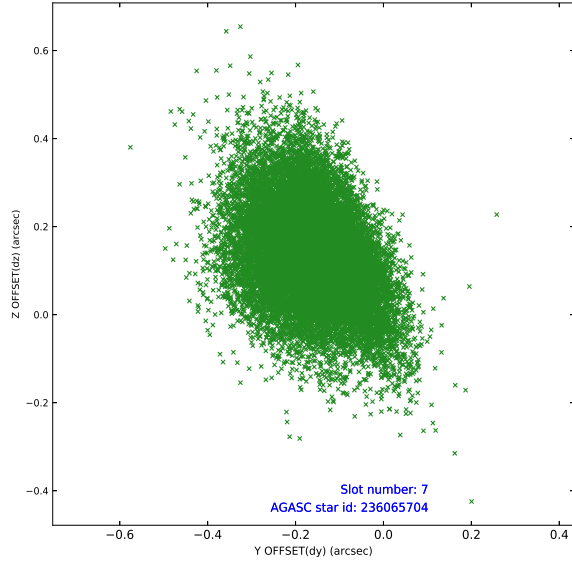
2.4.4 Slot 6



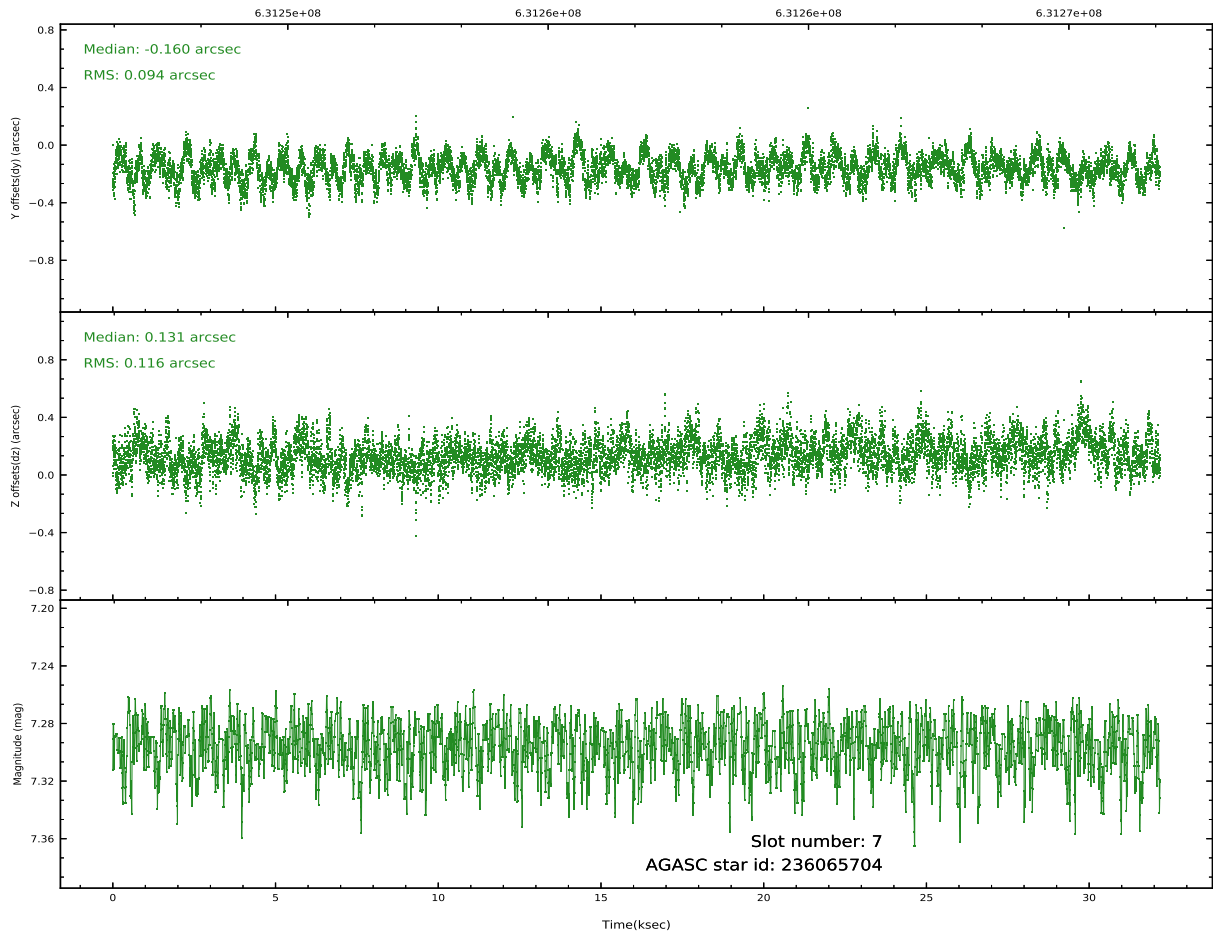
Time (s)



2.4.5 Slot 7

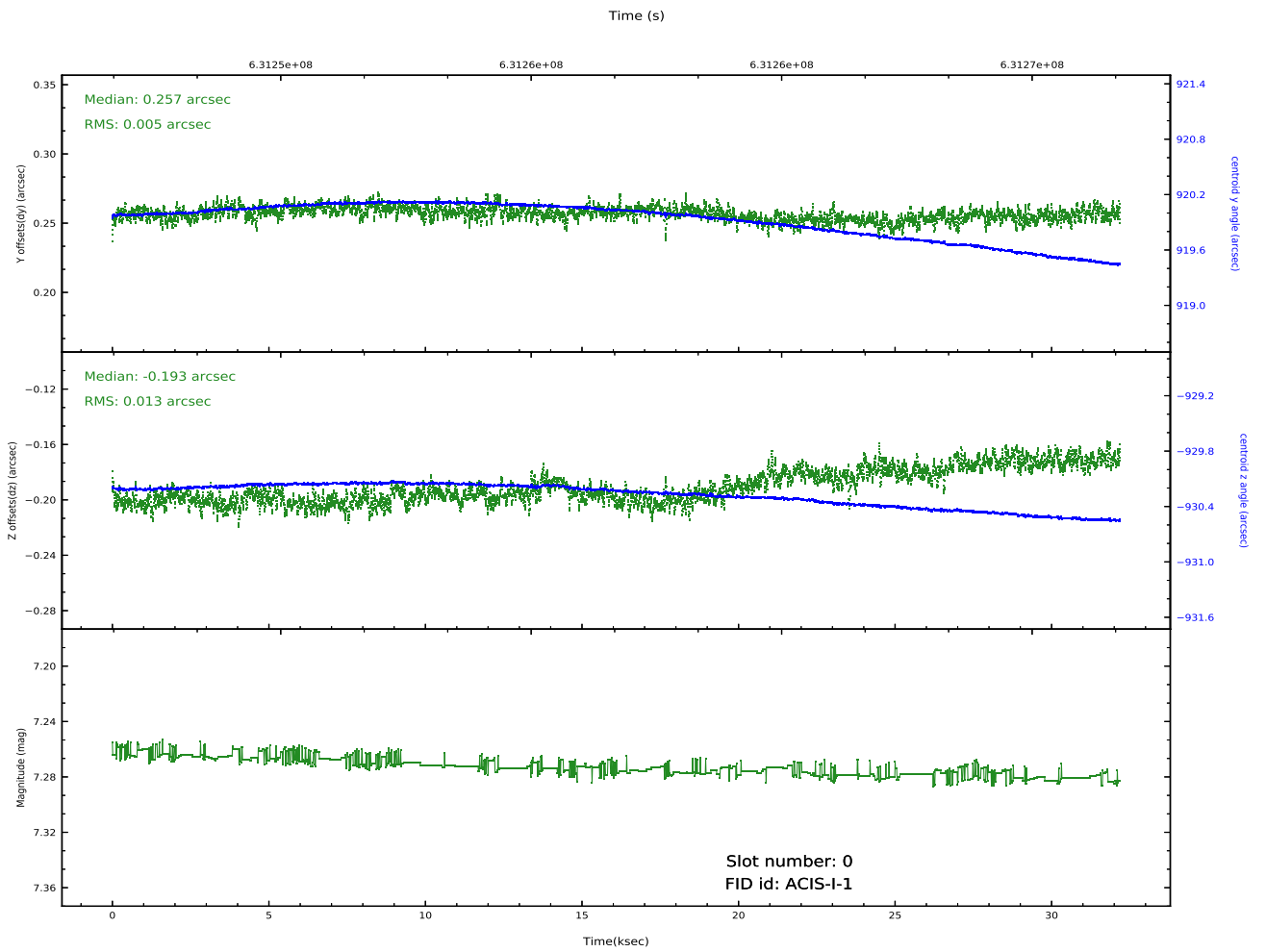
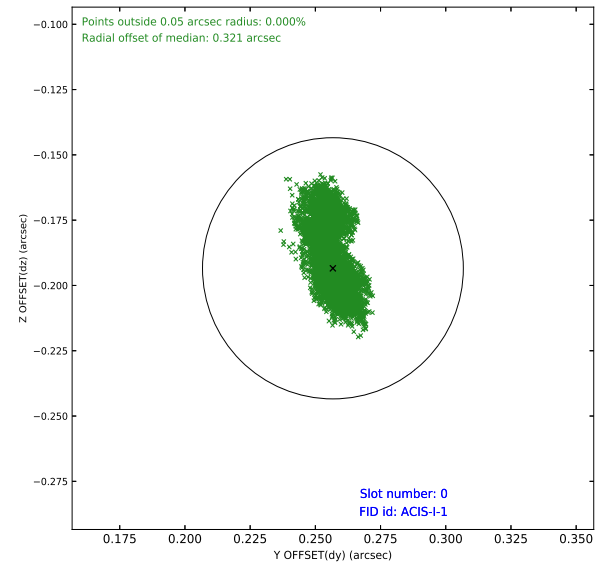
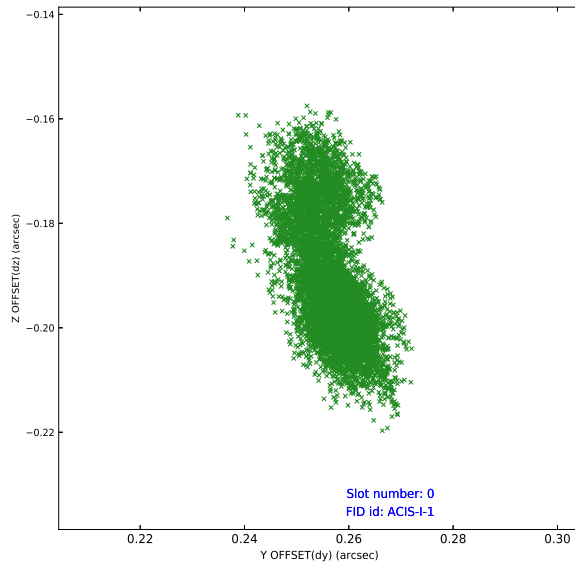


Time (s)

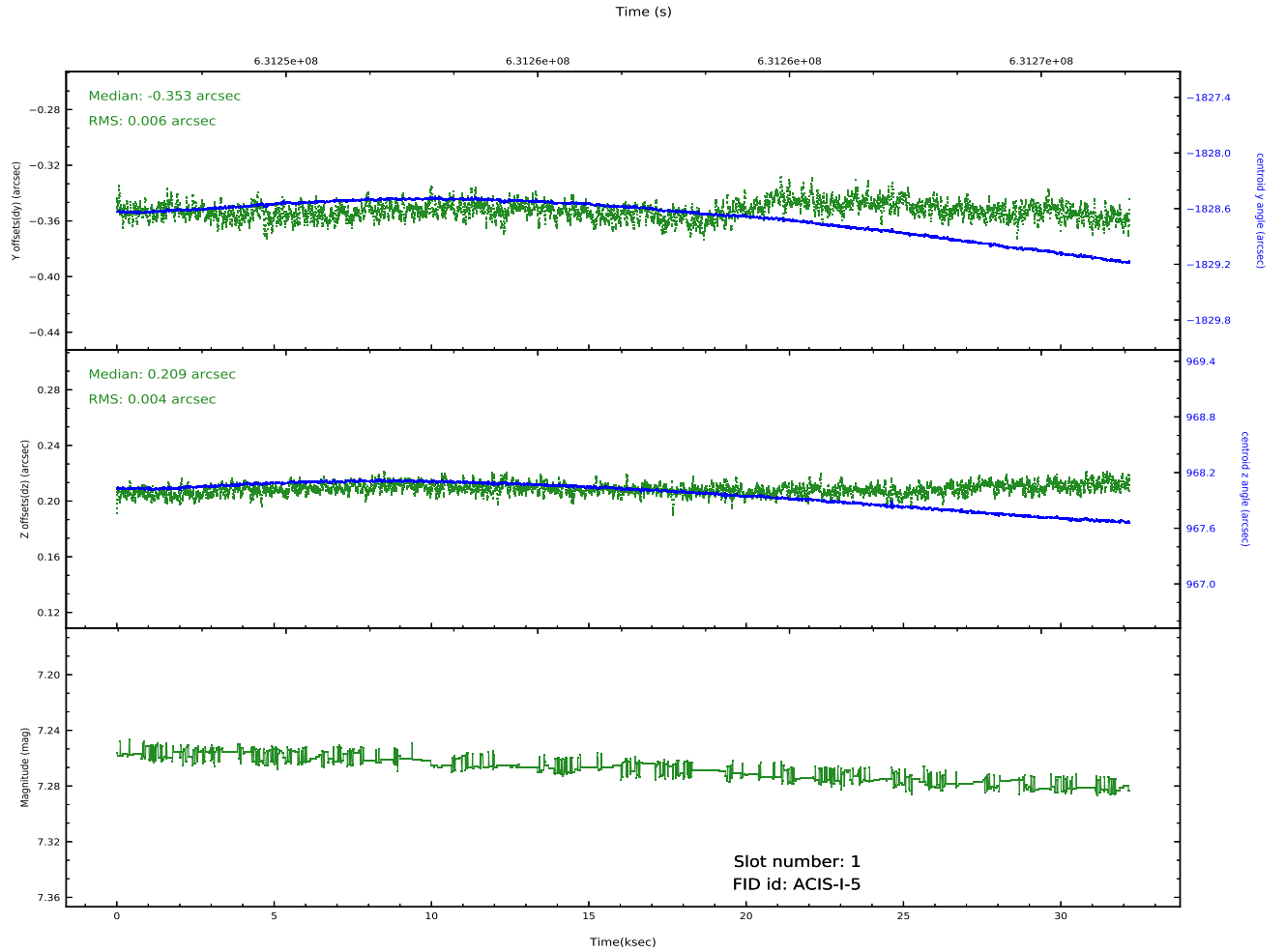
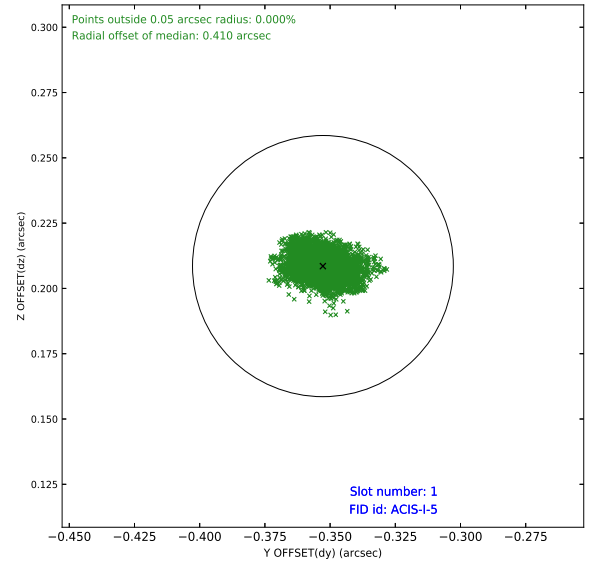
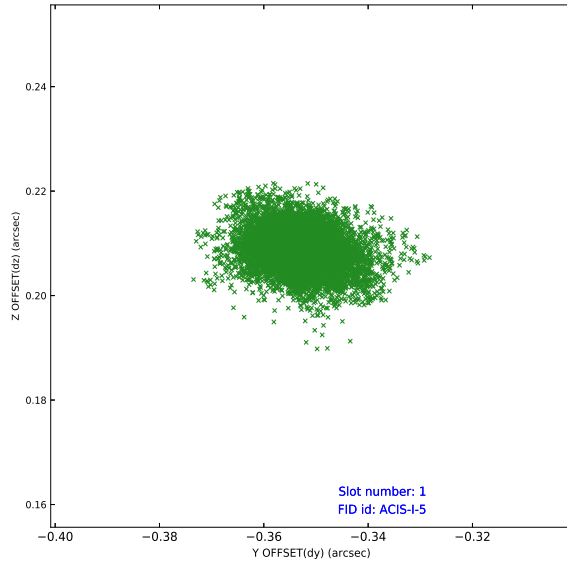


2.5 FID Slots

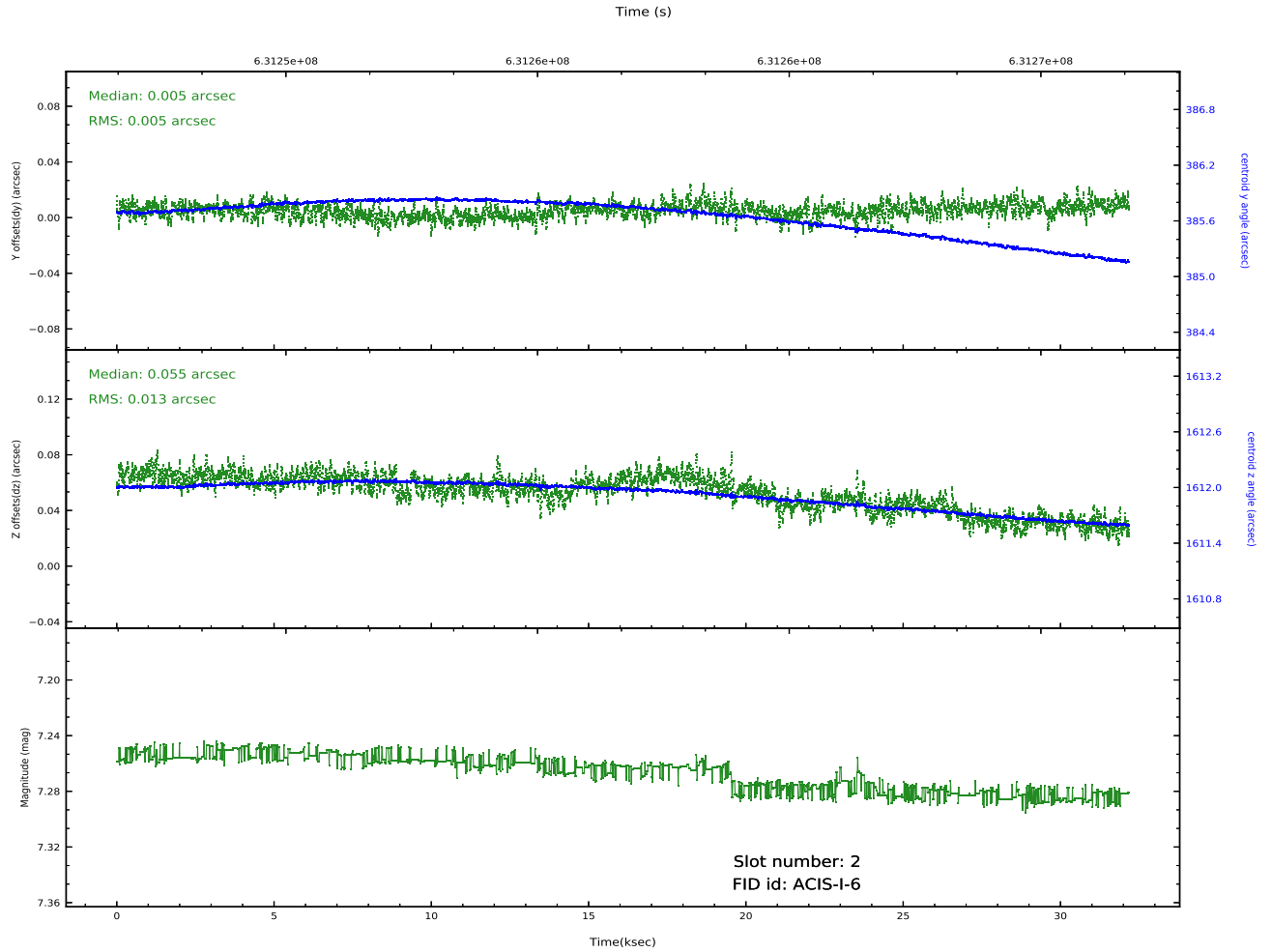
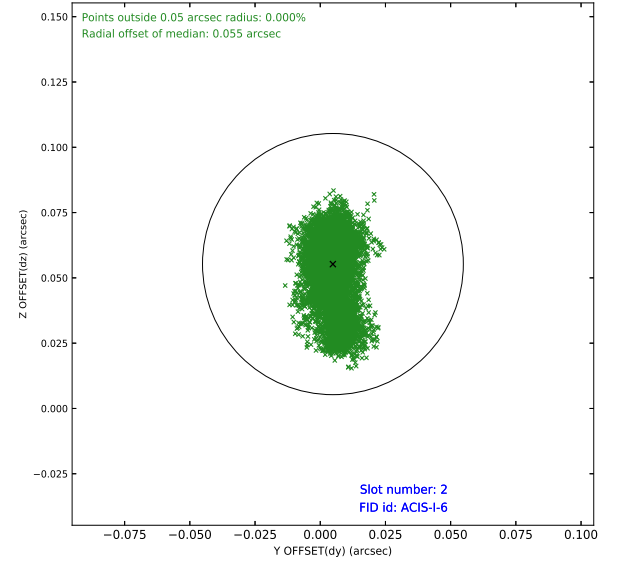
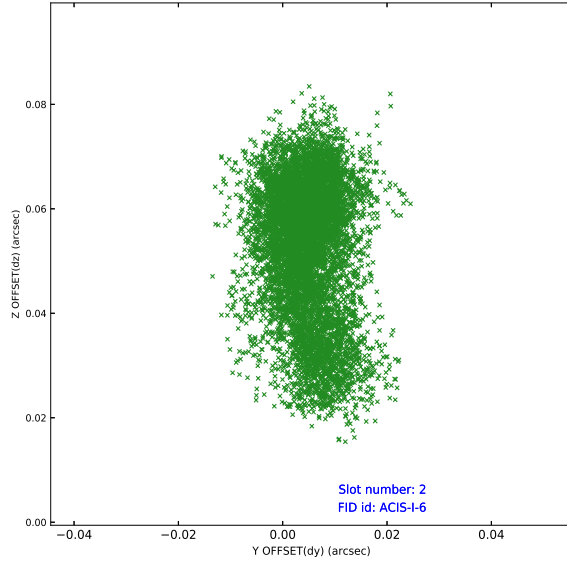
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



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	31.734444368958

A.2 Comments