

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5007 - L2 Version 4
Chandra X-Ray Center

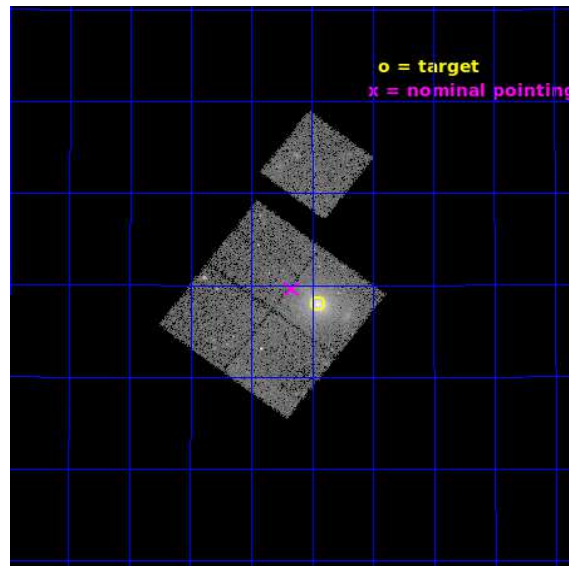
L2 Processing Date : Sep 23 2020

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1 Front

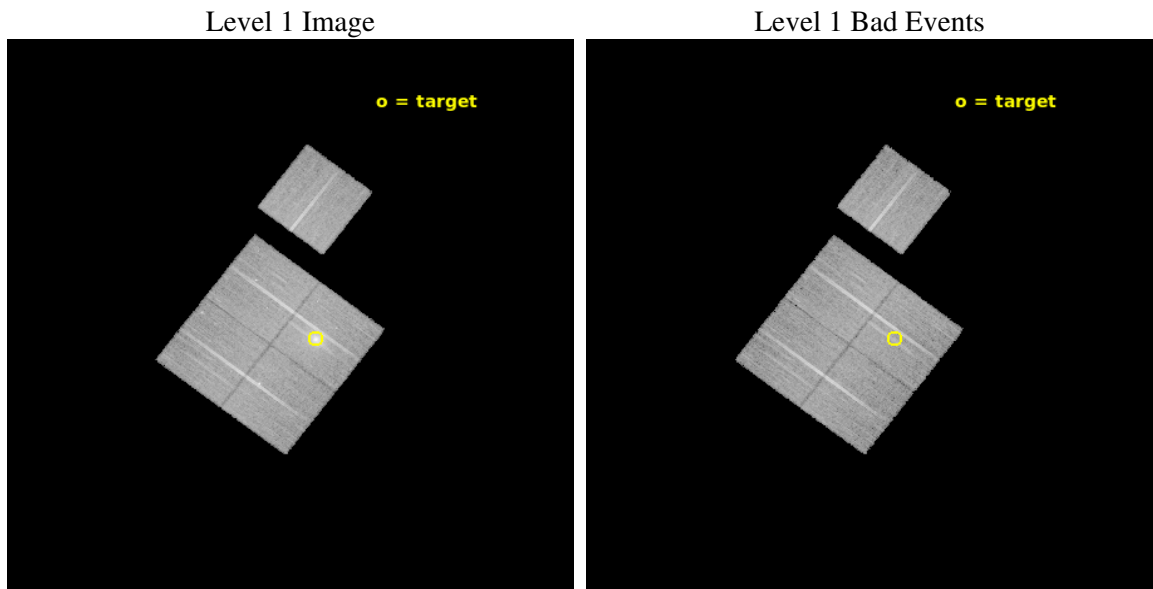
seq_num	800450	Sequence number
obs_id	5007	Observation id
title	Cluster studies: Determination of H0/q0	Proposal title
observer	DR. LEON VANSPEYBROECK	Principal investigator
object	A2261	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	260.613333	Observer's specified target RA [deg]
dec_targ	32.132778	Observer's specified target Dec [deg]
ra_nom	260.66641266593	Nominal RA [deg]
dec_nom	32.160479159451	Nominal Dec [deg]
roll_nom	37.252669832422	Nominal Roll [deg]
revision	4	Processing version of data
ontime	24638.717992187	Sum of GTIs [s]
livetime	24316.795002858	Livetime [s]
ontime0	24641.858992338	Sum of GTIs [s]
ontime1	24638.717992127	Sum of GTIs [s]
ontime2	24644.999952585	Sum of GTIs [s]
ontime3	24638.717992187	Sum of GTIs [s]
ontime6	24644.999952585	Sum of GTIs [s]
l2events	83950	Number of level 2 events



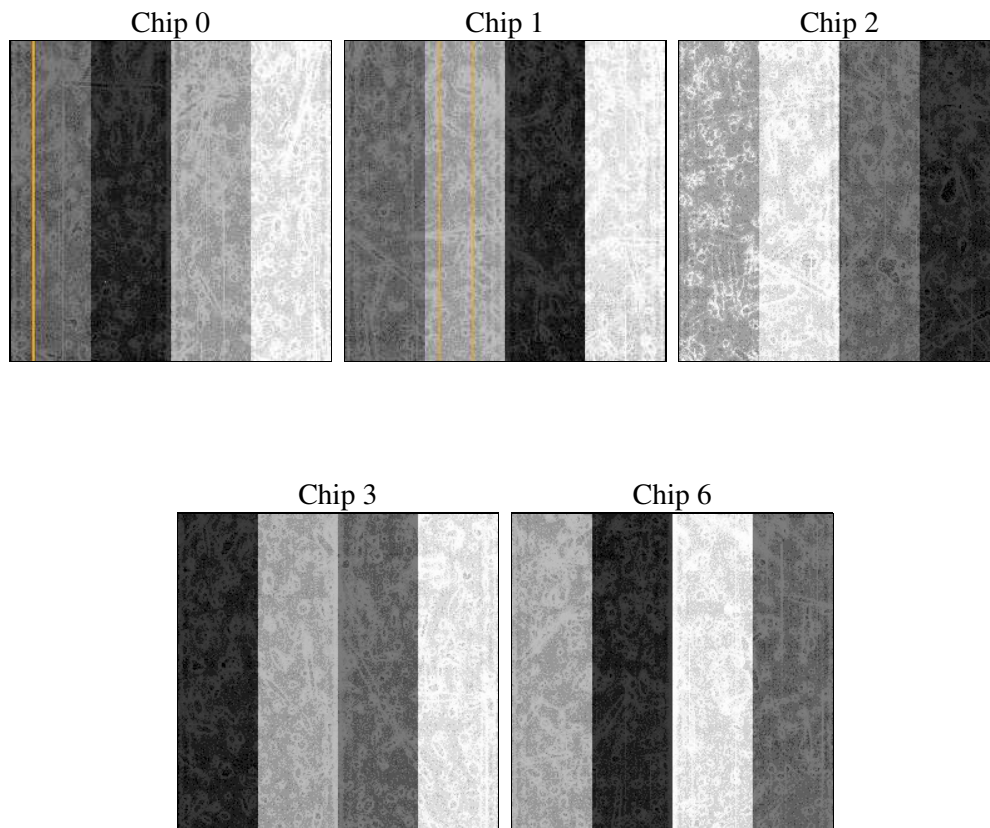
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	24526.771000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	24638.717992187	Sum of GTIs [s]
caldbver	4.9.2	 	ontime0	24641.858992338	Sum of GTIs [s]
date	2020-09-23T12:51:11	Date and time of file creation	ontime1	24638.717992127	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	24644.999952585	Sum of GTIs [s]
			ontime3	24638.717992187	Sum of GTIs [s]
			ontime6	24644.999952585	Sum of GTIs [s]
			l1events	635442	Number of level 1 events

2.1.4 Events

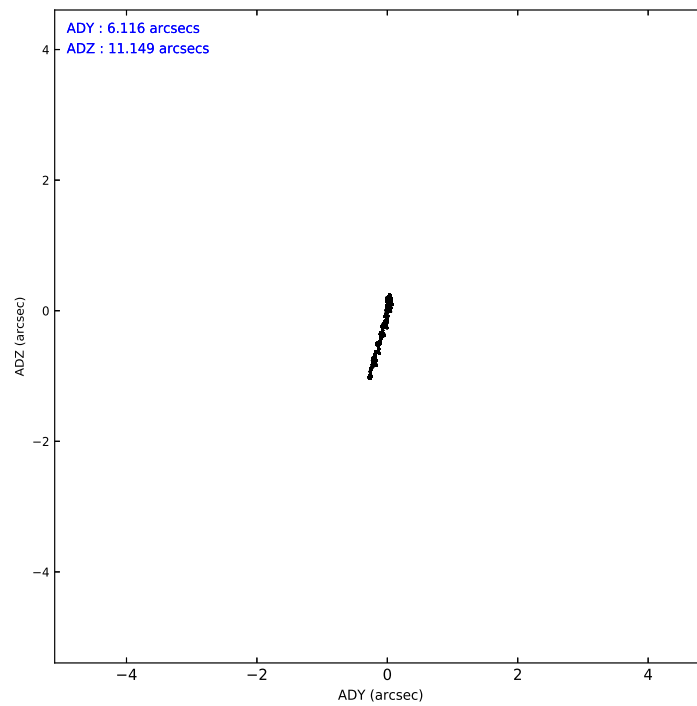
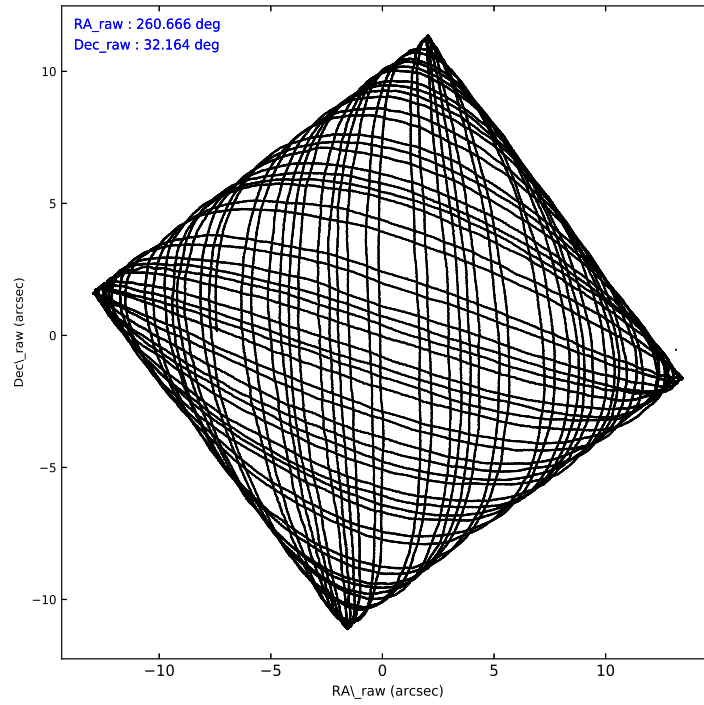
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	116788	115648	129992	150818	122196
rejected events	103622	100231	116286	109689	109381
rejected %	88%	86%	89%	72%	89%

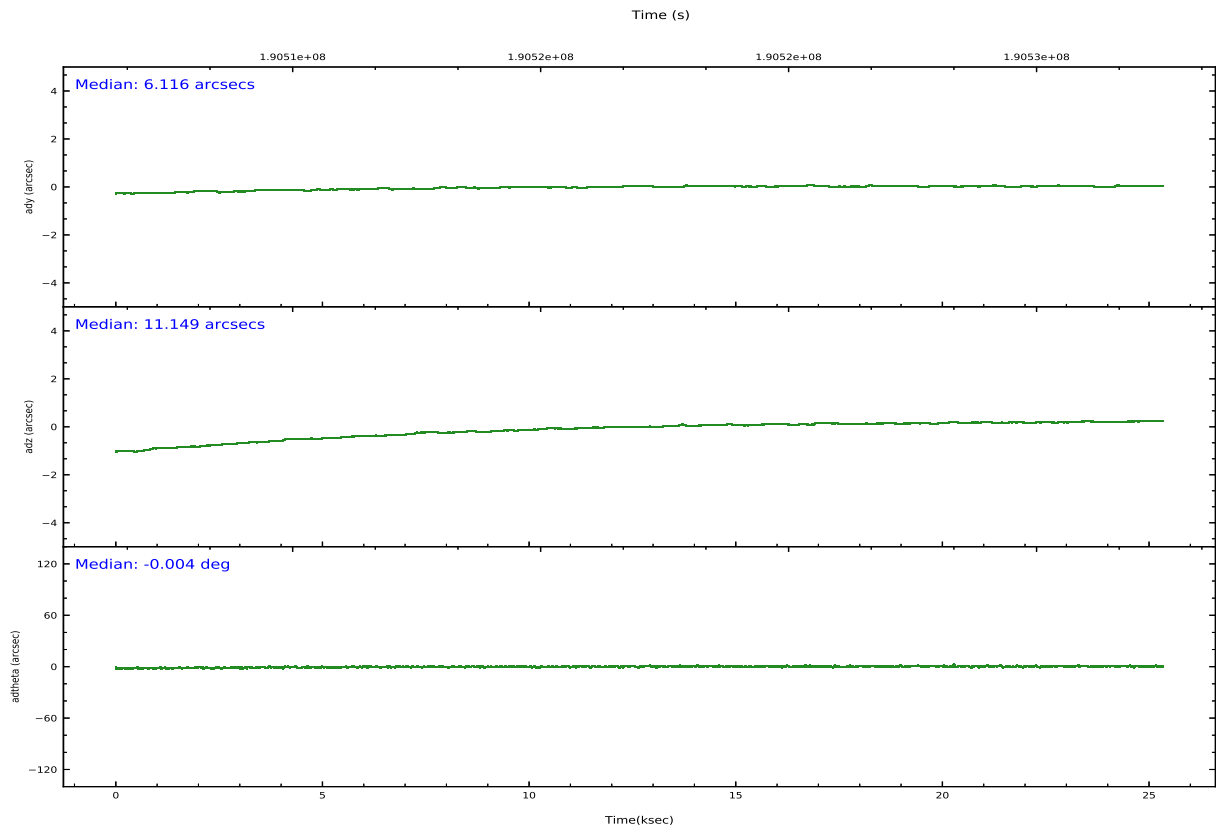
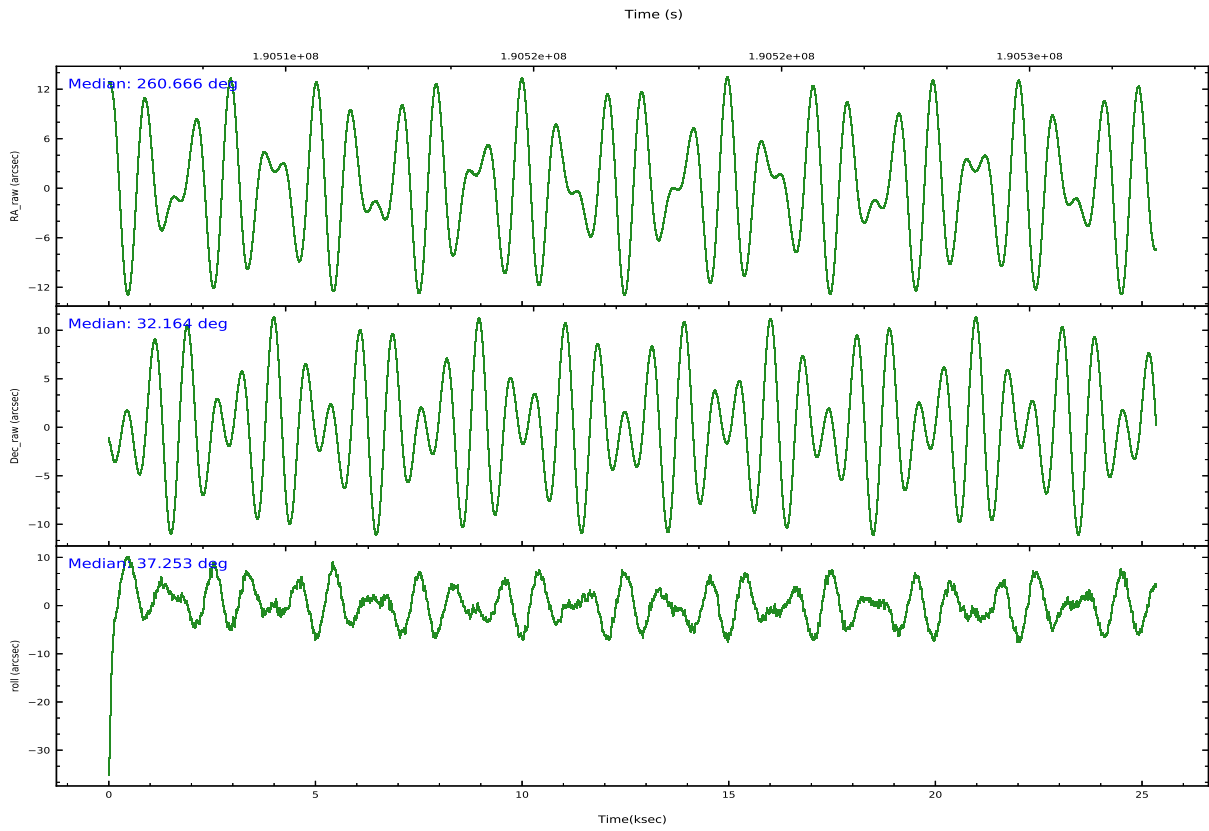
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	4803	6259	5729	28362	4531
	4%	5%	4%	18%	3%
grade 1 events	66	61	74	178	40
	0%	0%	0%	0%	0%
grade 2 events	2978	3114	2885	5310	2693
	2%	2%	2%	3%	2%
grade 3 events	1523	1667	1428	2192	1401
	1%	1%	1%	1%	1%
grade 4 events	1392	1571	1405	2249	1398
	1%	1%	1%	1%	1%
grade 5 events	4506	4790	4172	5002	4911
	3%	4%	3%	3%	4%
grade 6 events	2475	2810	2262	3023	2792
	2%	2%	1%	2%	2%
grade 7 events	99045	95376	112037	104502	104430
	84%	82%	86%	69%	85%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-01236	ACIS-01236	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	260.653385	260.66641266593	Subarray requested	NONE	NONE
[deg] Pointing Dec	32.138752	32.160479159451	Alternating exposures requested	N	N
[deg] Pointing Roll	37.046370	37.252669832422	[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	-225.840463	-225.8433433320239			
[mm] SIM translation stage offset	-7.752	-7.749109670905796			
[s] Observation start time (MET)	190506536.184000	190505260.80032			
Observation start date	2004-01-14T22:27:52	2004-01-14T22:07:40			
[s] Observation end time (MET)	190531063.184000	190531377.28896			
Observation end date	2004-01-15T05:16:39	2004-01-15T05:22:57			
Read mode	TIMED	TIMED			

2.3 Aspect





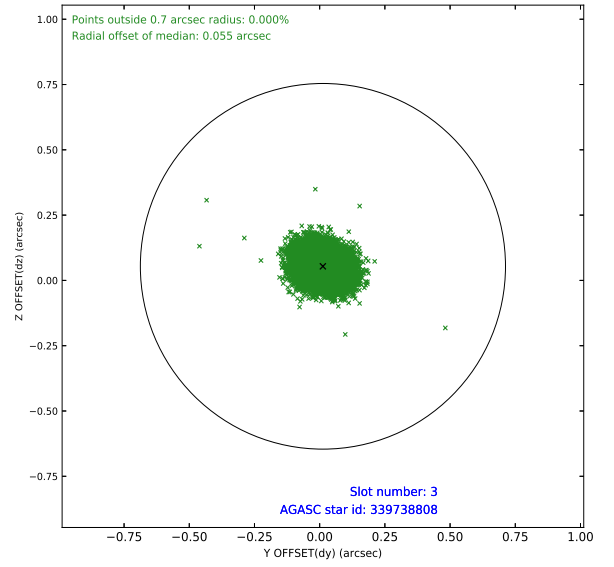
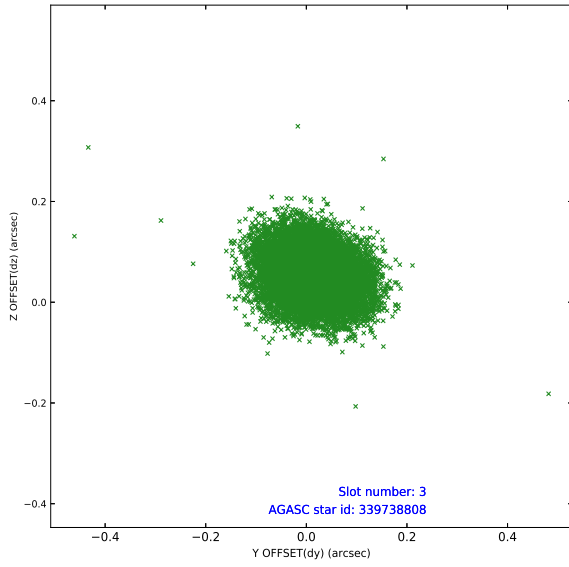
Slot Statistics

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	7.23	6180	1.000	0.088	-0.204	0.013	0.034	0.000000	0.000000	933.61	-993
1	FID		ACIS-I-4	7.14	6180	1.000	0.006	0.123	0.011	0.024	0.000000	0.000000	2153.13	907
2	FID		ACIS-I-5	7.22	6180	1.000	-0.192	0.151	0.008	0.015	0.000000	0.000000	-1814.59	904
3	GUIDE	used	339738808	8.90	12351	1.000	0.012	0.054	0.075	0.121	260.388344	31.860977	-1248.66	-309
4	GUIDE	used	339739856	9.18	12356	1.000	0.059	-0.120	0.067	0.111	260.043055	31.783835	-2257.28	109
5	GUIDE	used	340264720	9.40	12354	1.000	0.055	0.048	0.089	0.148	260.154315	32.131036	-1229.05	897
6	GUIDE	used	340272152	9.24	12357	1.000	0.147	0.029	0.081	0.130	259.948756	32.115258	-1761.50	1232
7	GUIDE	used	341979192	6.64	12361	1.000	-0.273	-0.012	0.041	0.069	261.163651	32.670375	2389.13	599

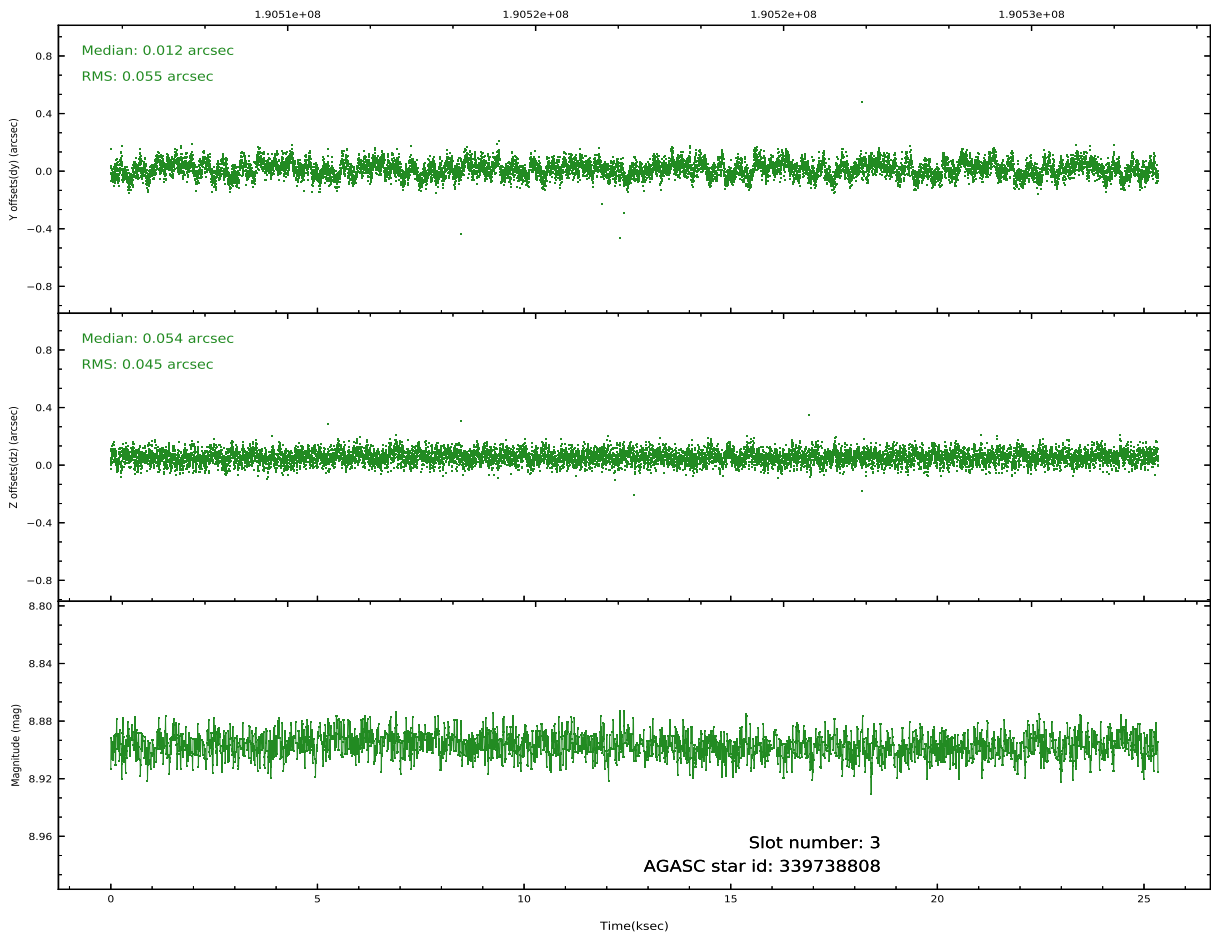
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2.4 Star Slots

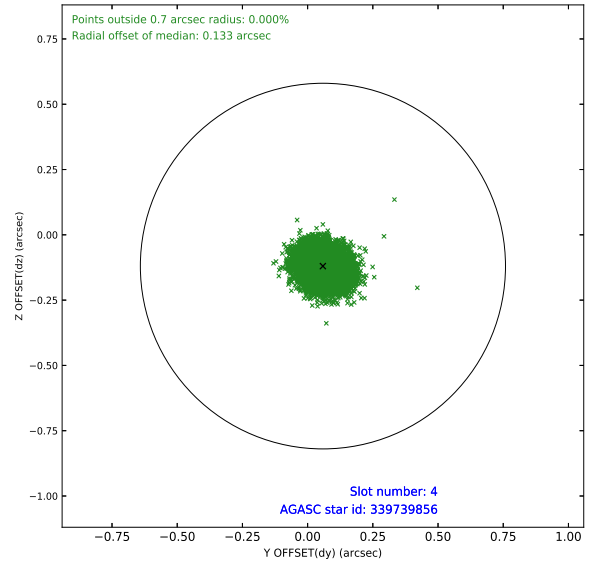
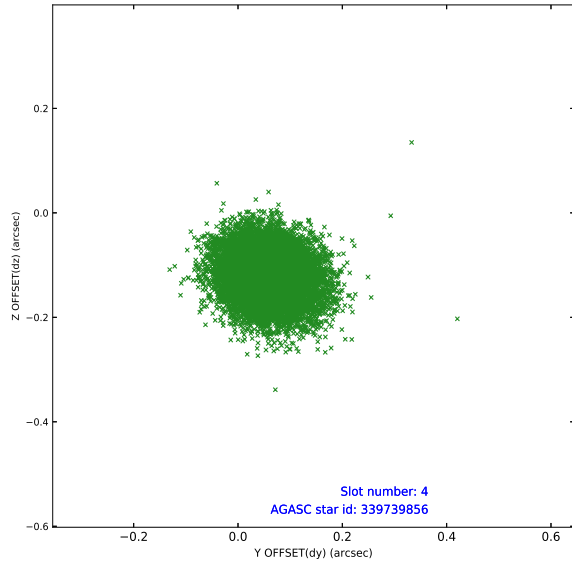
2.4.1 Slot 3



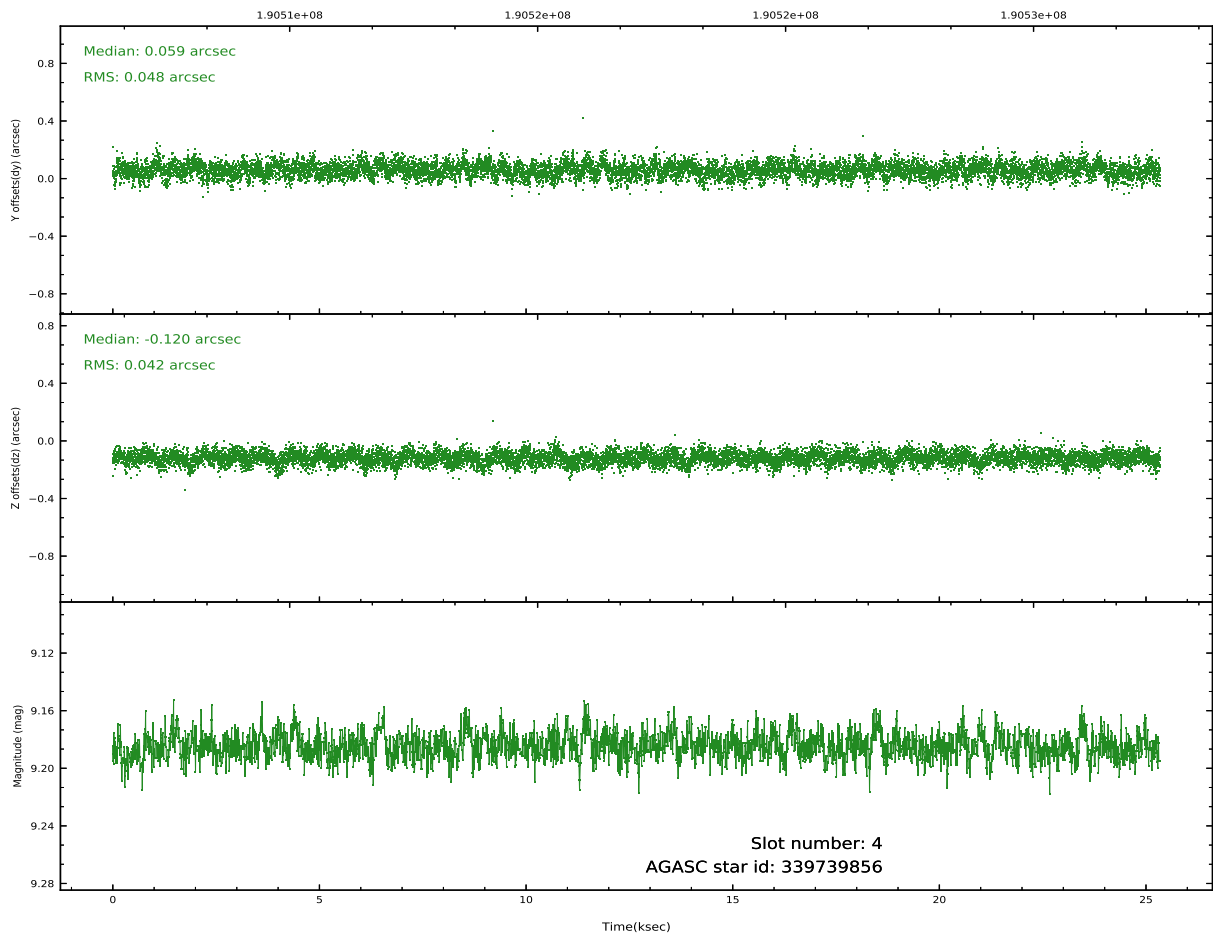
Time (s)



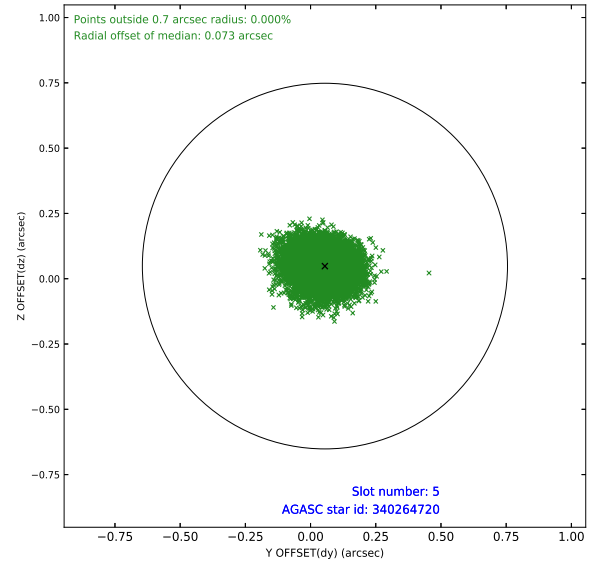
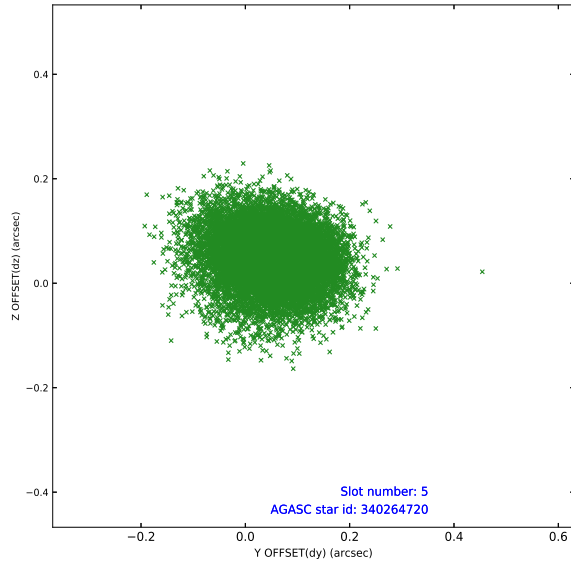
2.4.2 Slot 4



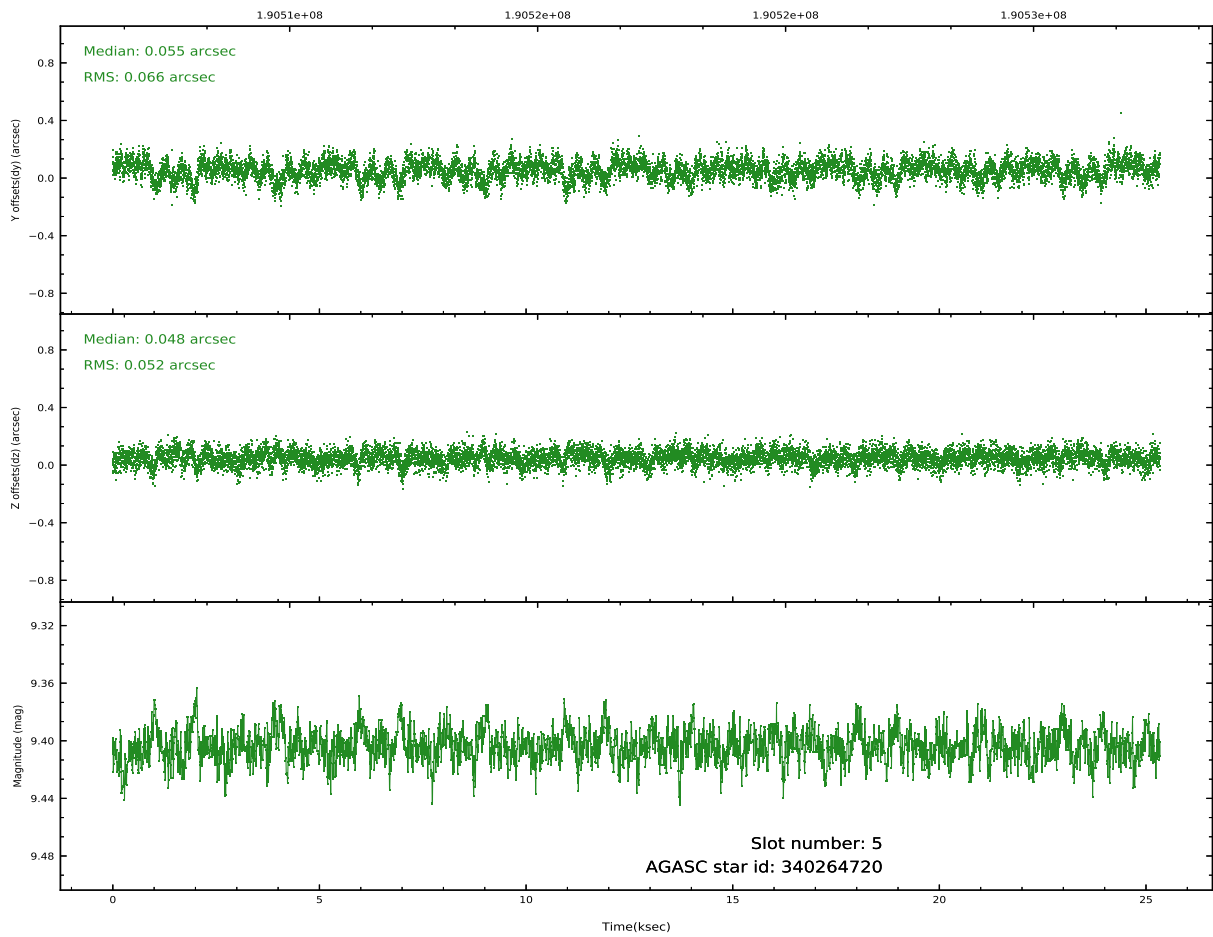
Time (s)



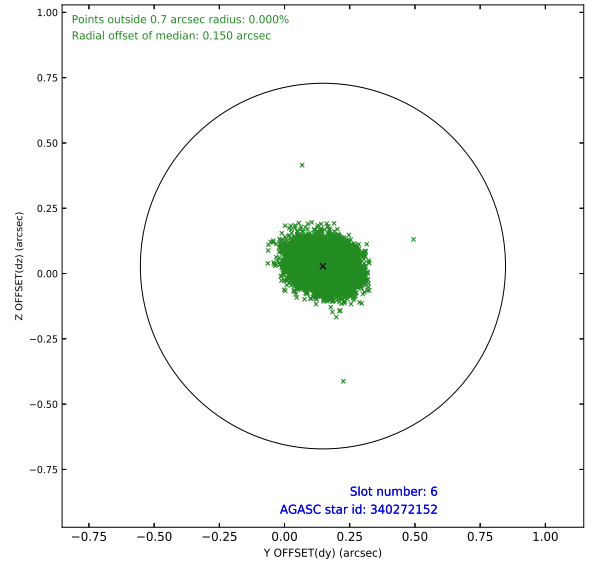
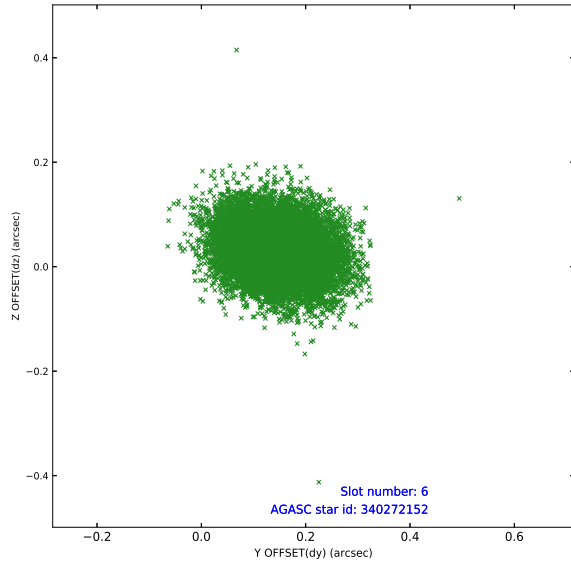
2.4.3 Slot 5



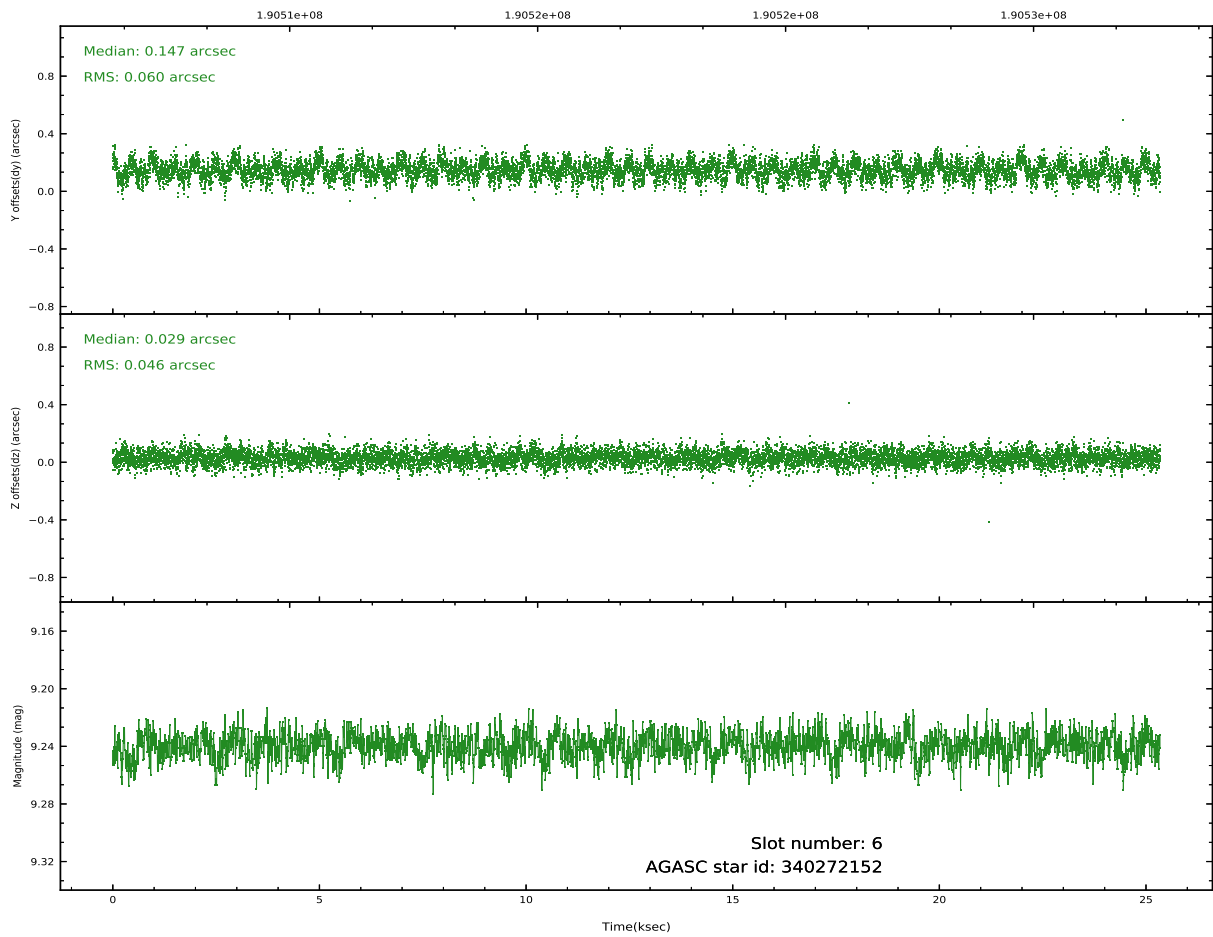
Time (s)



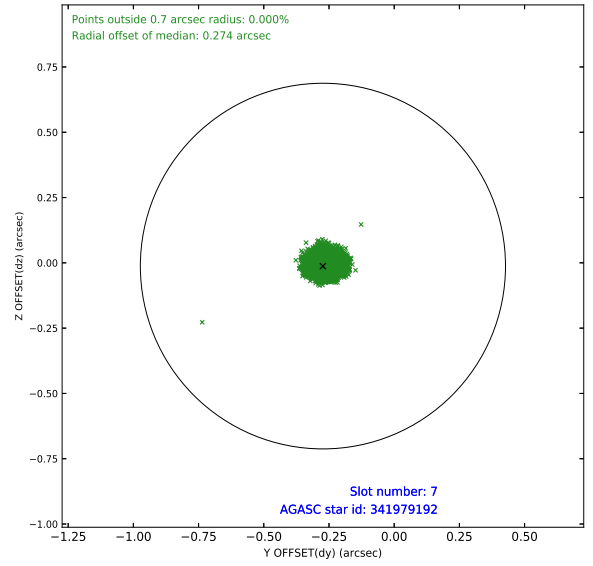
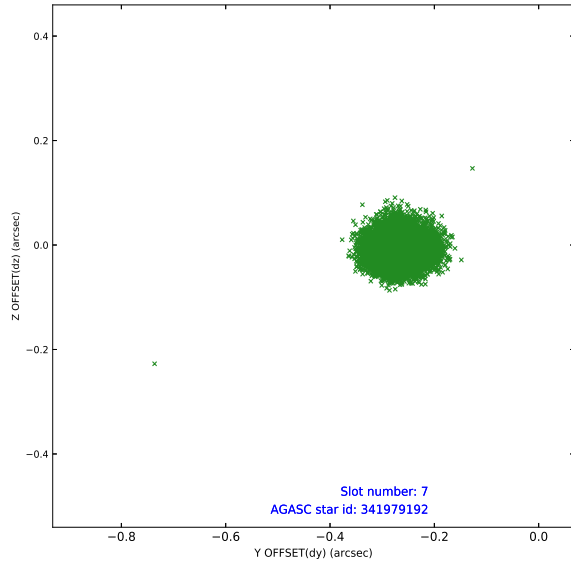
2.4.4 Slot 6



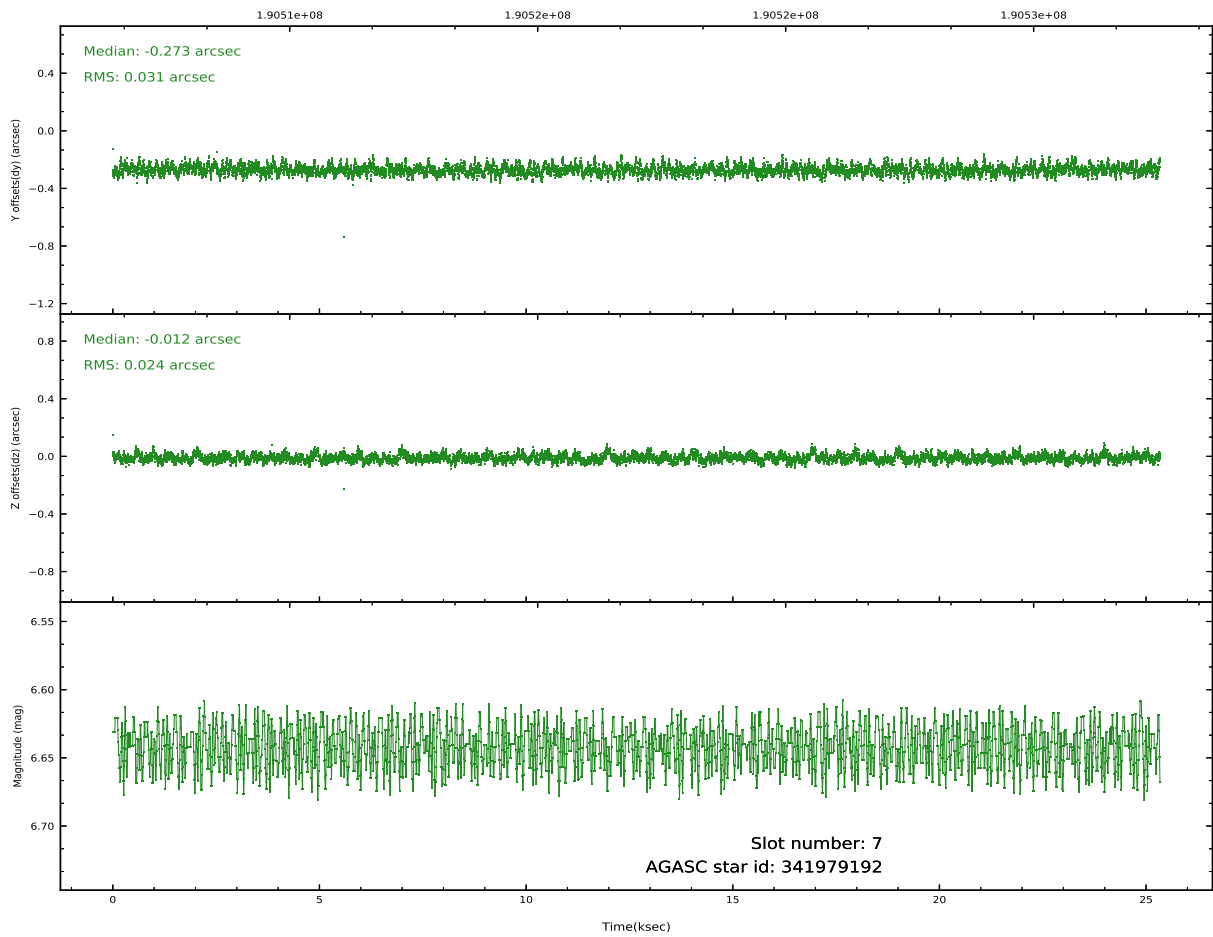
Time (s)



2.4.5 Slot 7

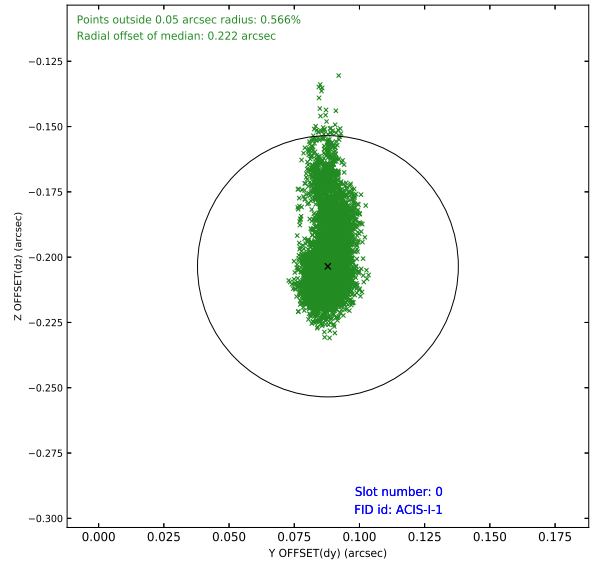
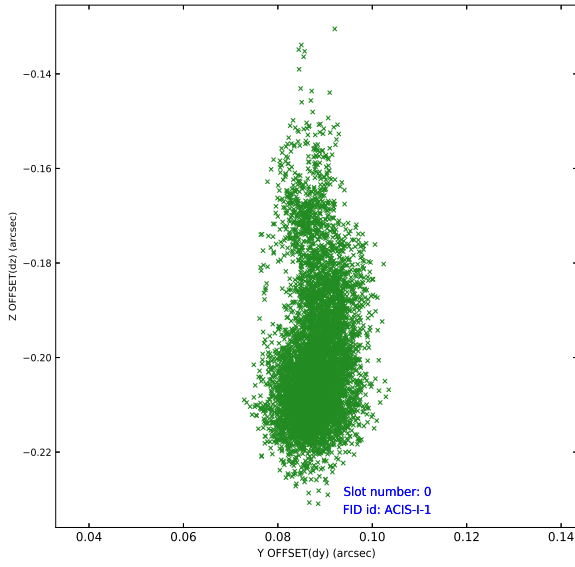


Time (s)

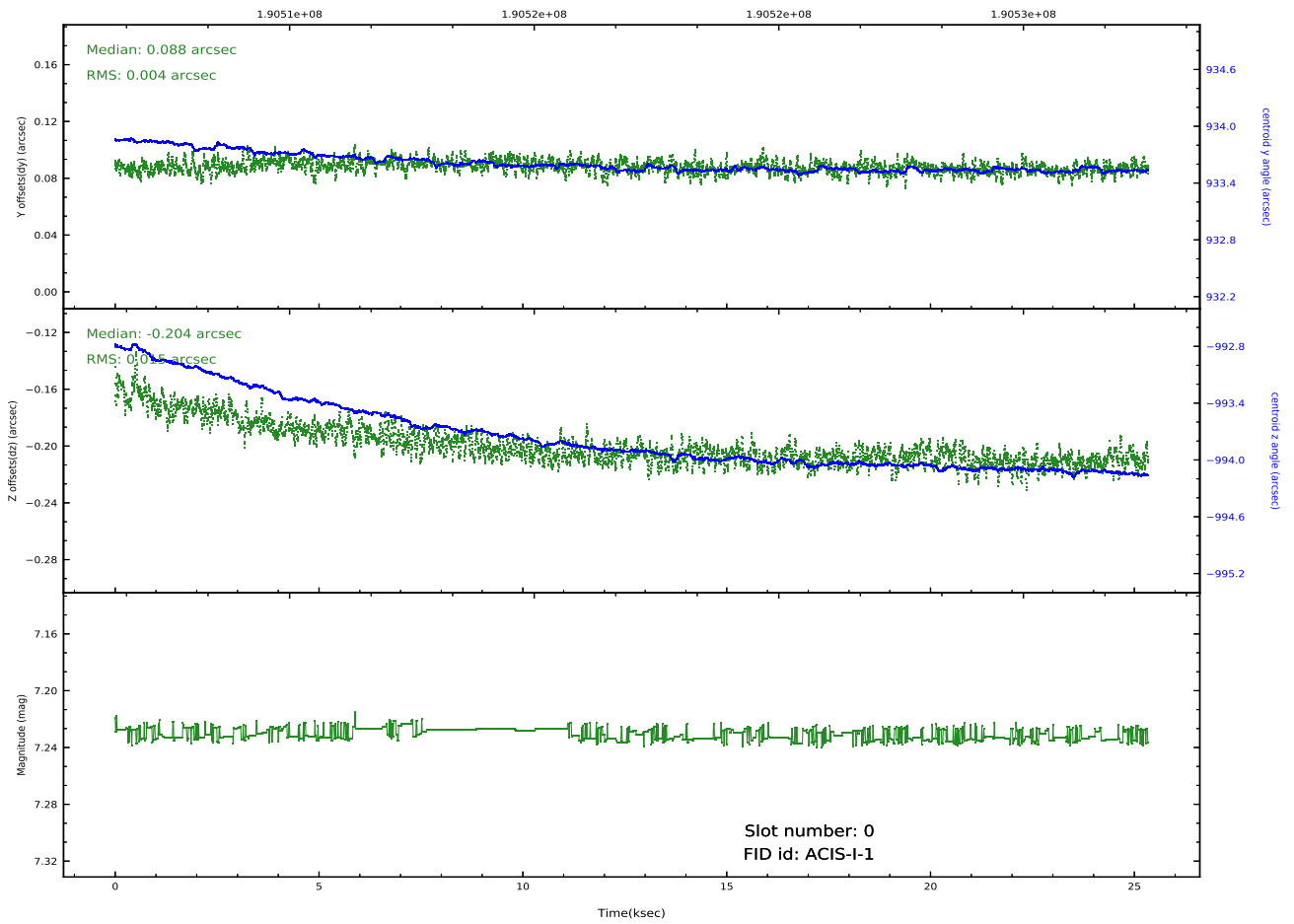


2.5 FID Slots

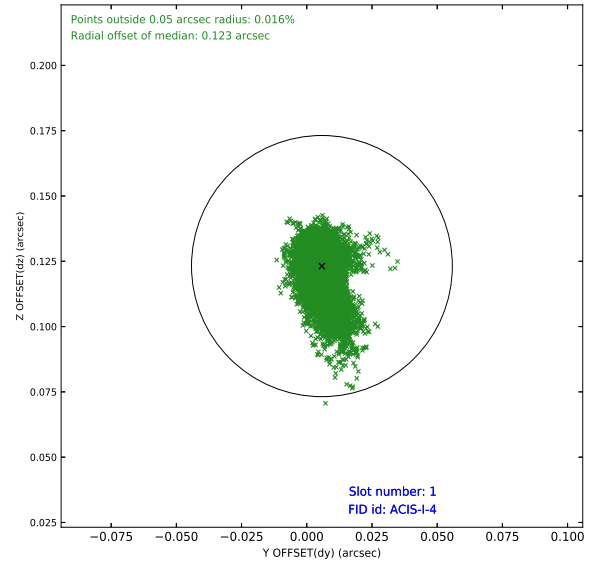
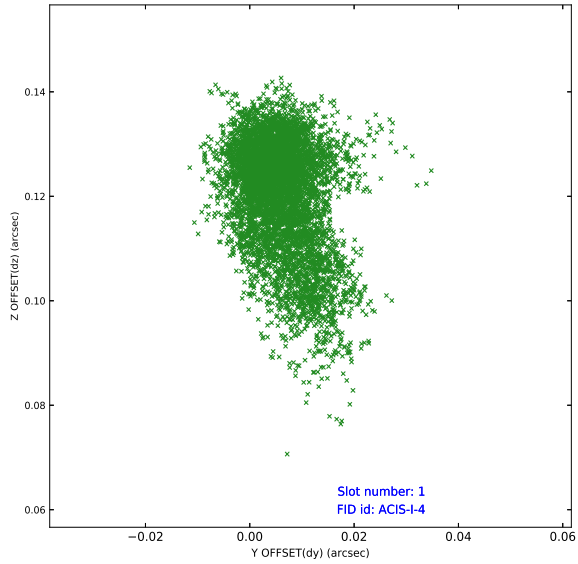
2.5.1 Slot 0



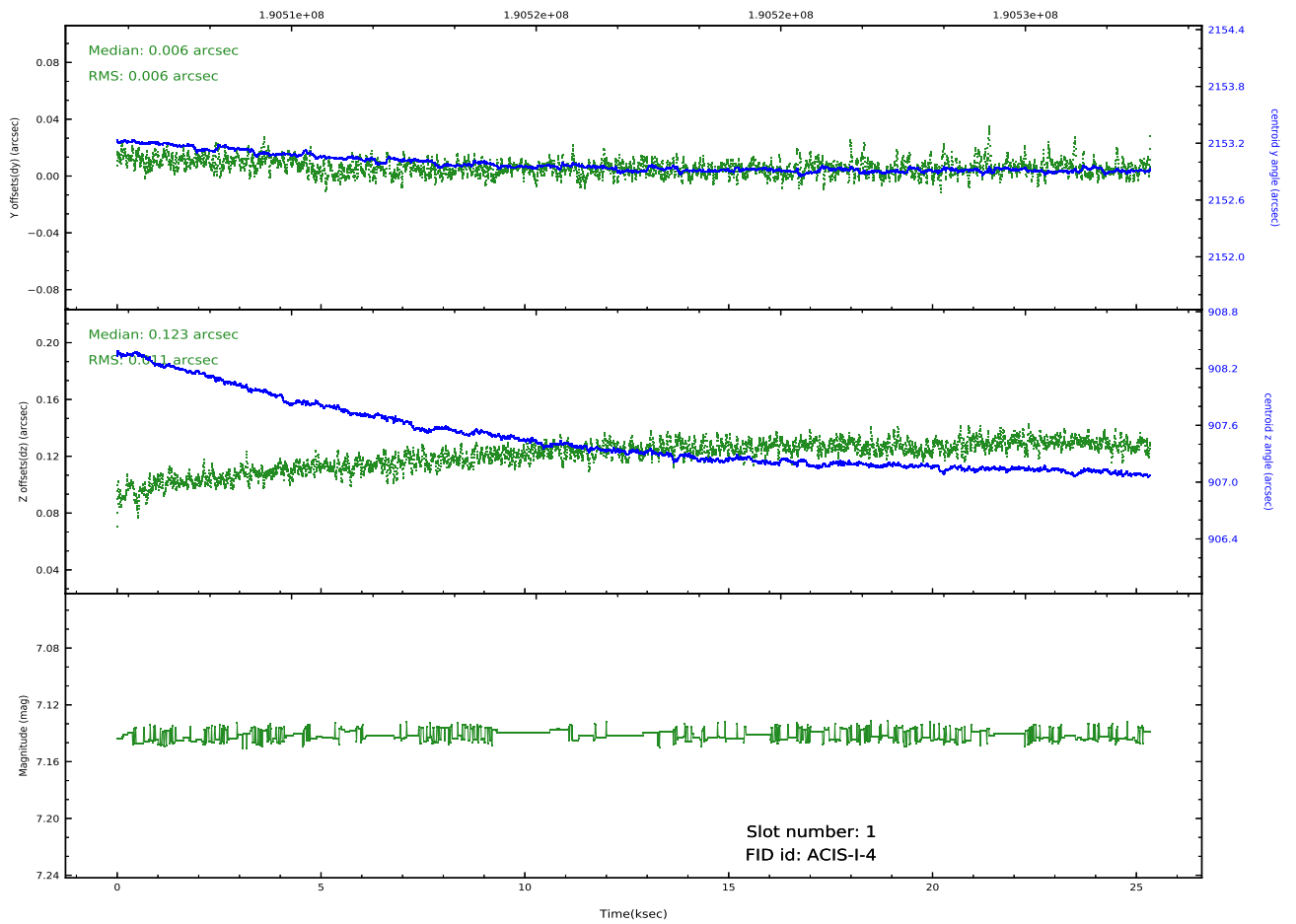
Time (s)



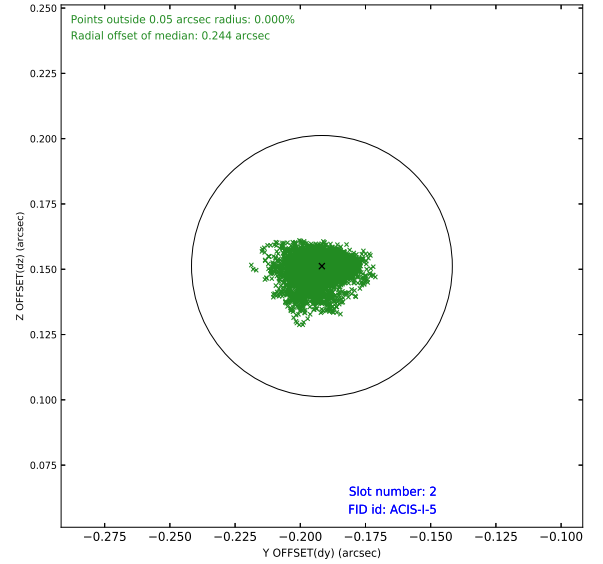
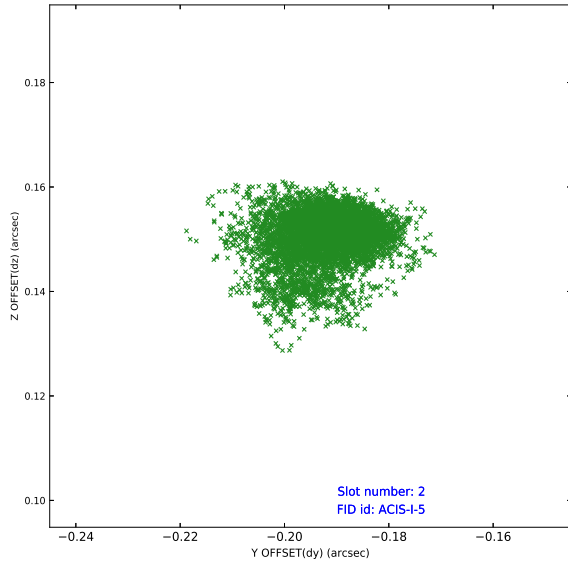
2.5.2 Slot 1



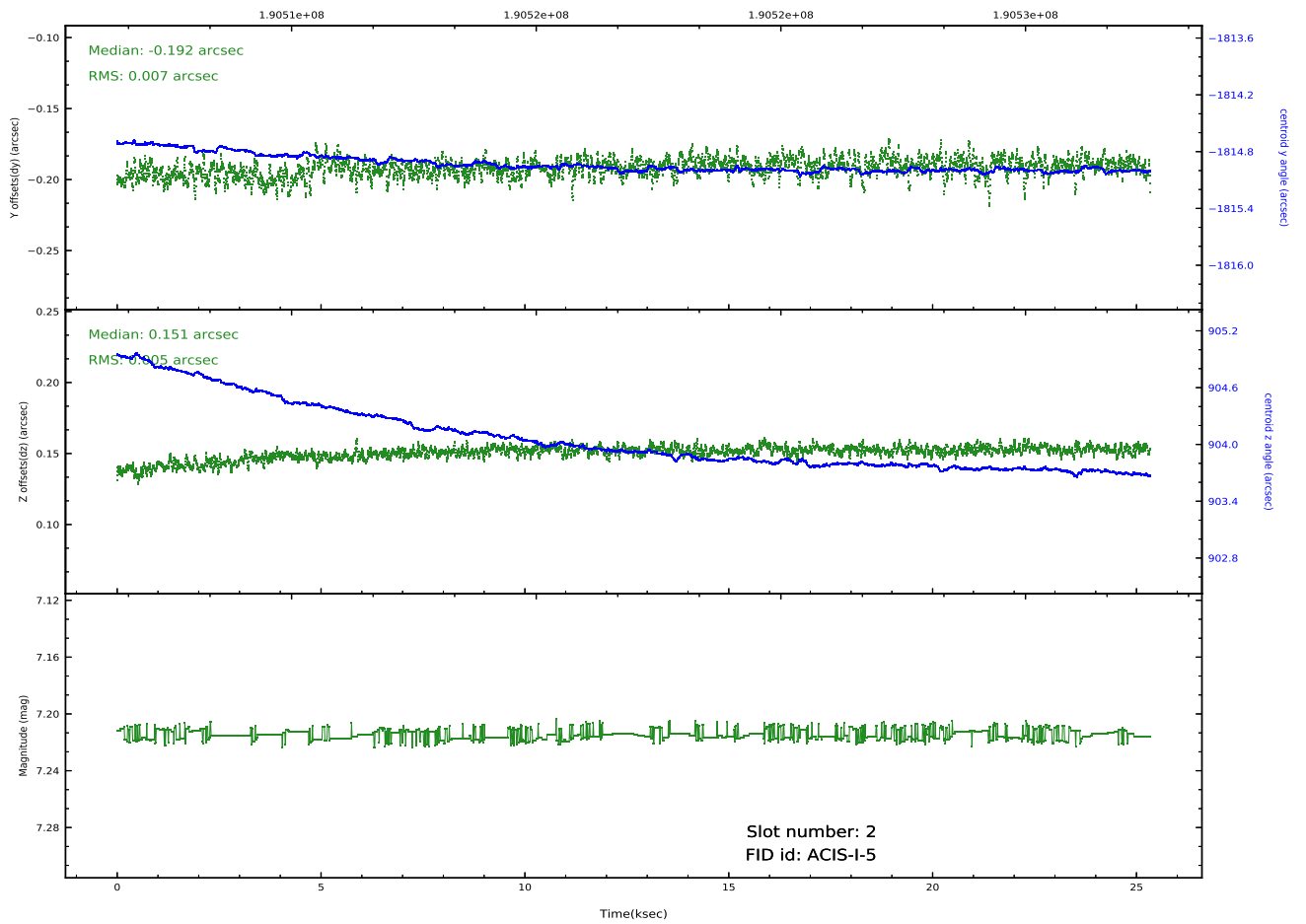
Time (s)



2.5.3 Slot 2



Time (s)



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2020.09.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	24.641

A.2 Comments