

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5808 - L2 Version 3
Chandra X-Ray Center

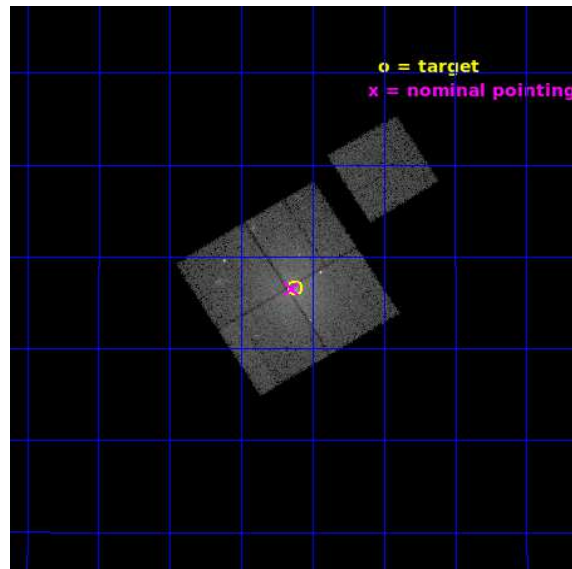
L2 Processing Date : Oct 11 2020

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1 Front

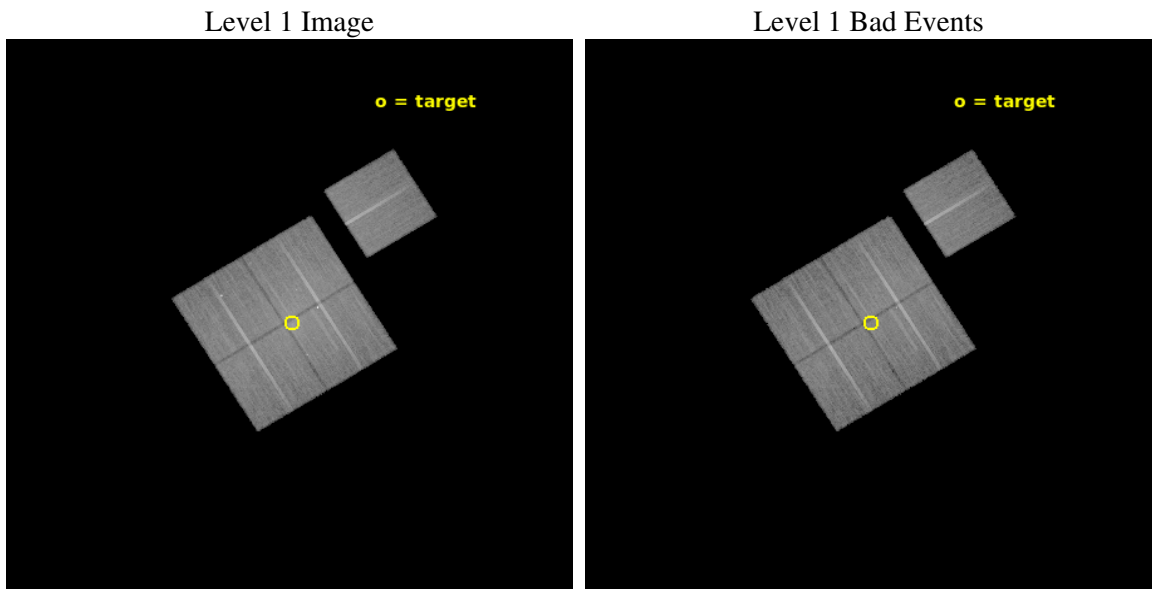
seq_num	800521	Sequence number
obs_id	5808	Observation id
title	Entropy in low mass galaxy clusters out to moderate radii	Proposal
observer	Dr Edward Lloyd-Davies	Principal investigator
object	Abell 539	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	79.155833	Observer's specified target RA [deg]
dec_targ	6.442111	Observer's specified target Dec [deg]
ra_nom	79.161083138448	Nominal RA [deg]
dec_nom	6.4419133985443	Nominal Dec [deg]
roll_nom	58.206926267113	Nominal Roll [deg]
revision	3	Processing version of data
ontime	24604.576982021	Sum of GTIs [s]
livetime	24283.100070125	Livetime [s]
ontime0	24607.71792236	Sum of GTIs [s]
ontime1	24607.717972189	Sum of GTIs [s]
ontime2	24613.999952644	Sum of GTIs [s]
ontime3	24604.576982021	Sum of GTIs [s]
ontime6	24610.858972371	Sum of GTIs [s]
l2events	126550	Number of level 2 events



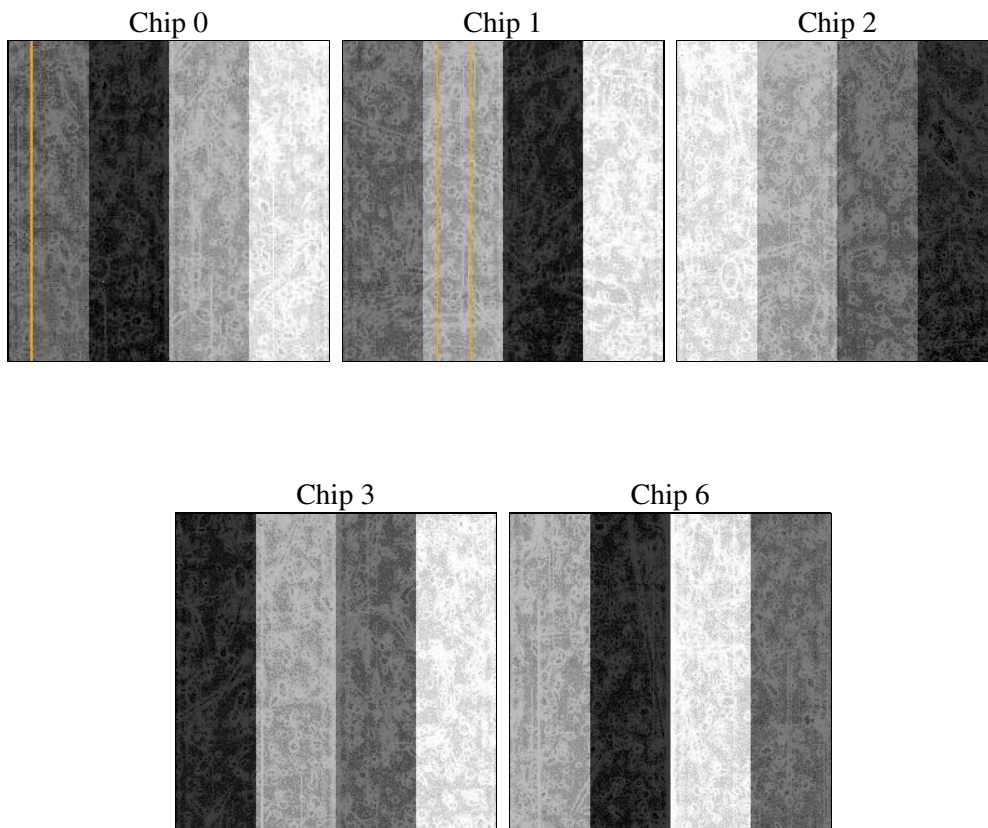
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	24500.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	24604.576982021	Sum of GTIs [s]
caldbver	4.9.2	 	ontime0	24607.71792236	Sum of GTIs [s]
date	2020-10-11T15:58:26	Date and time of file creation	ontime1	24607.717972189	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	24613.999952644	Sum of GTIs [s]
			ontime3	24604.576982021	Sum of GTIs [s]
			ontime6	24610.858972371	Sum of GTIs [s]
			l1events	907032	Number of level 1 events

2.1.4 Events

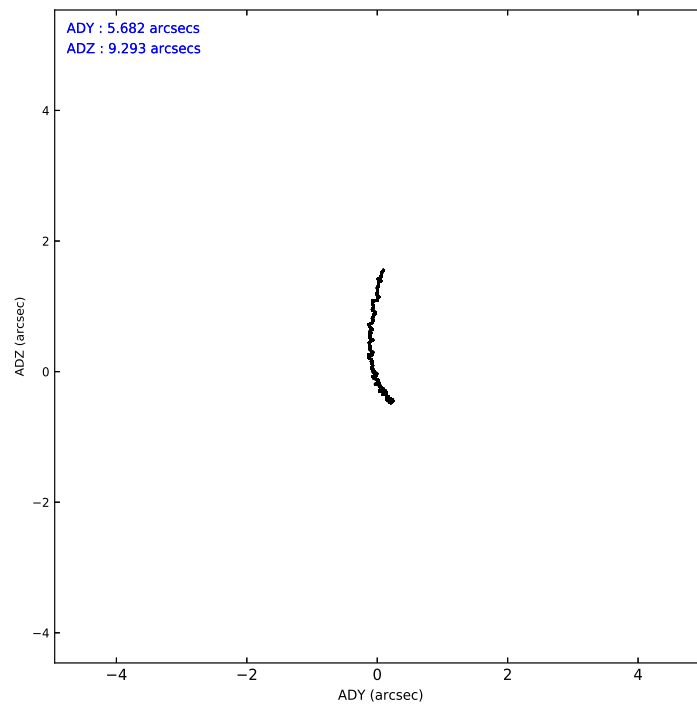
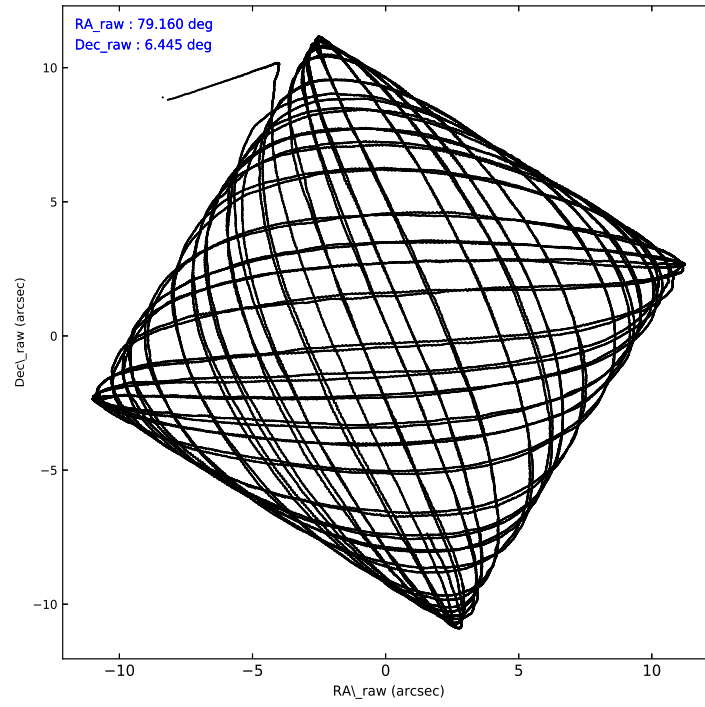
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	174453	173892	199396	191797	167494
rejected events	146557	143032	168401	154638	150068
rejected %	84%	82%	84%	80%	89%

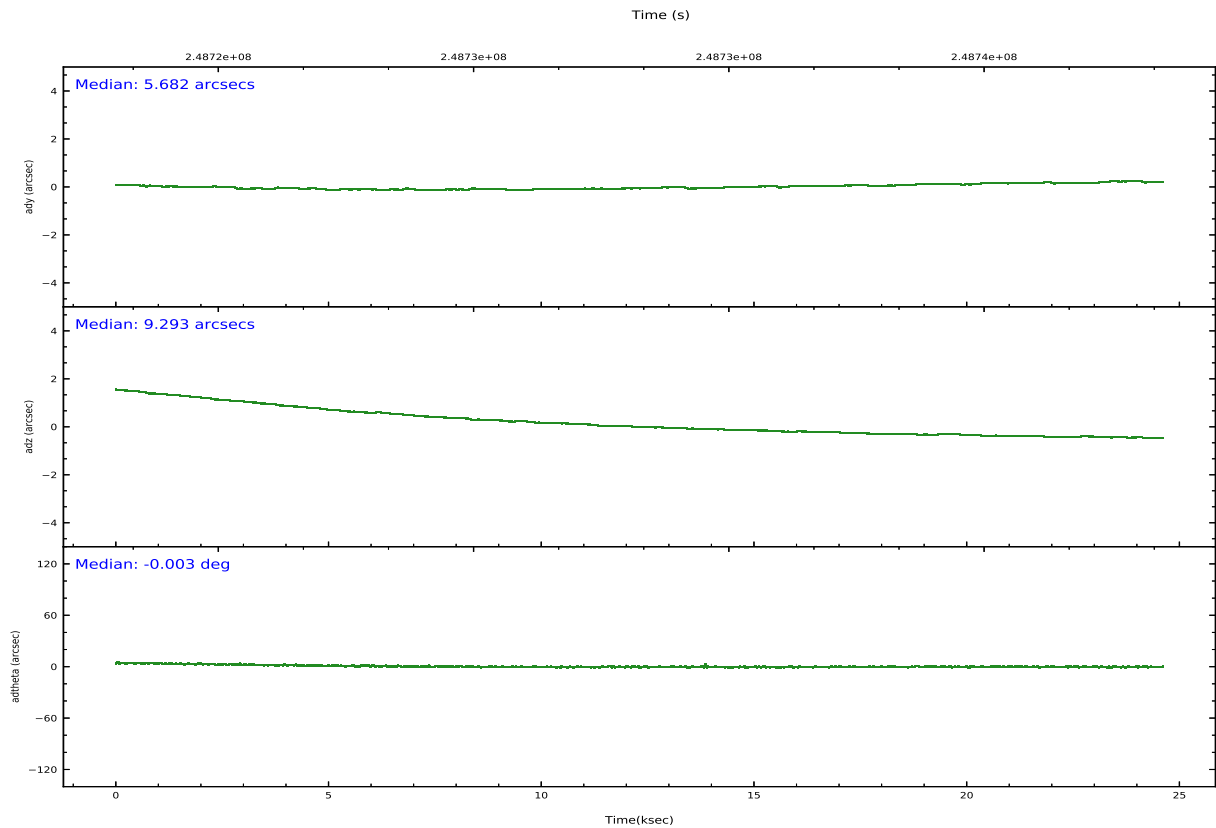
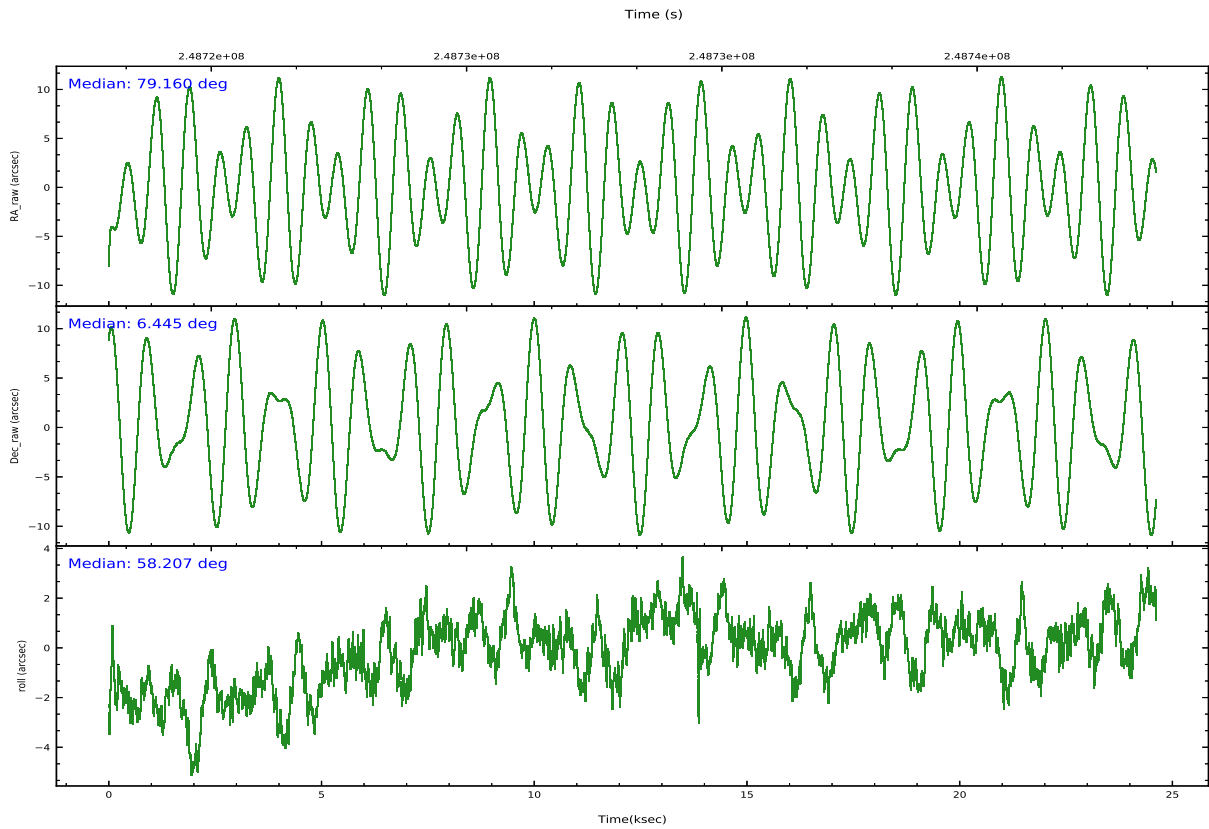
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	15409	17058	18314	23558	6721
	8%	9%	9%	12%	4%
grade 1 events	136	111	156	279	61
	0%	0%	0%	0%	0%
grade 2 events	5205	5411	5398	5548	3696
	2%	3%	2%	2%	2%
grade 3 events	2296	2430	2215	2433	1888
	1%	1%	1%	1%	1%
grade 4 events	2130	2430	2268	2442	1919
	1%	1%	1%	1%	1%
grade 5 events	5817	6622	5437	6960	6496
	3%	3%	2%	3%	3%
grade 6 events	3404	4141	3332	3736	3638
	1%	2%	1%	1%	2%
grade 7 events	140056	135689	162276	146841	143075
	80%	78%	81%	76%	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	79.158898	79.16108313844801	Subarray requested	NONE	NONE
[deg] Pointing Dec	6.417410	6.4419133985443	Alternating exposures requested	N	N
[deg] Pointing Roll	57.999657	58.206926267113	[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	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	248719708.184000	248718437.94288			
Observation start date	2005-11-18T16:47:24	2005-11-18T16:27:17			
[s] Observation end time (MET)	248744208.184000	248745041.30661			
Observation end date	2005-11-18T23:35:44	2005-11-18T23:50:41			
Read mode	TIMED	TIMED			

2.3 Aspect



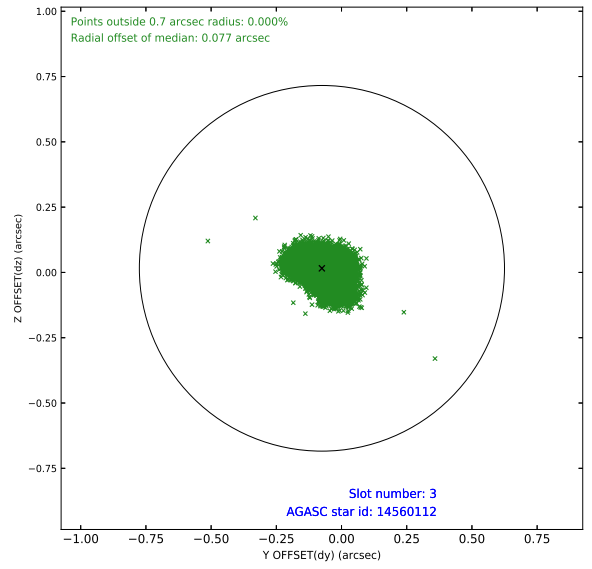
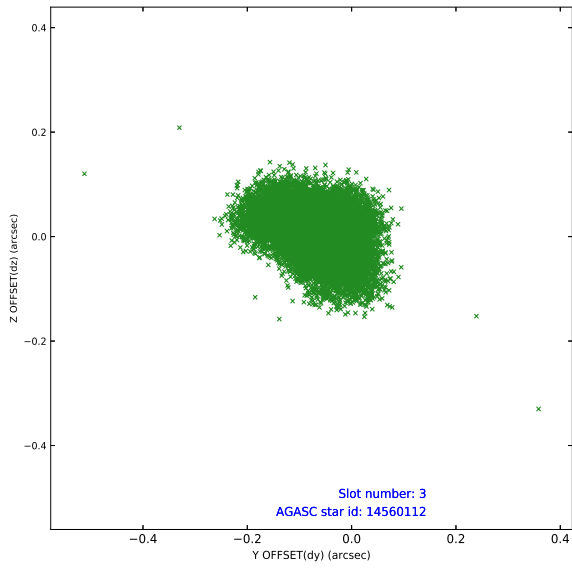


Slot Statistics

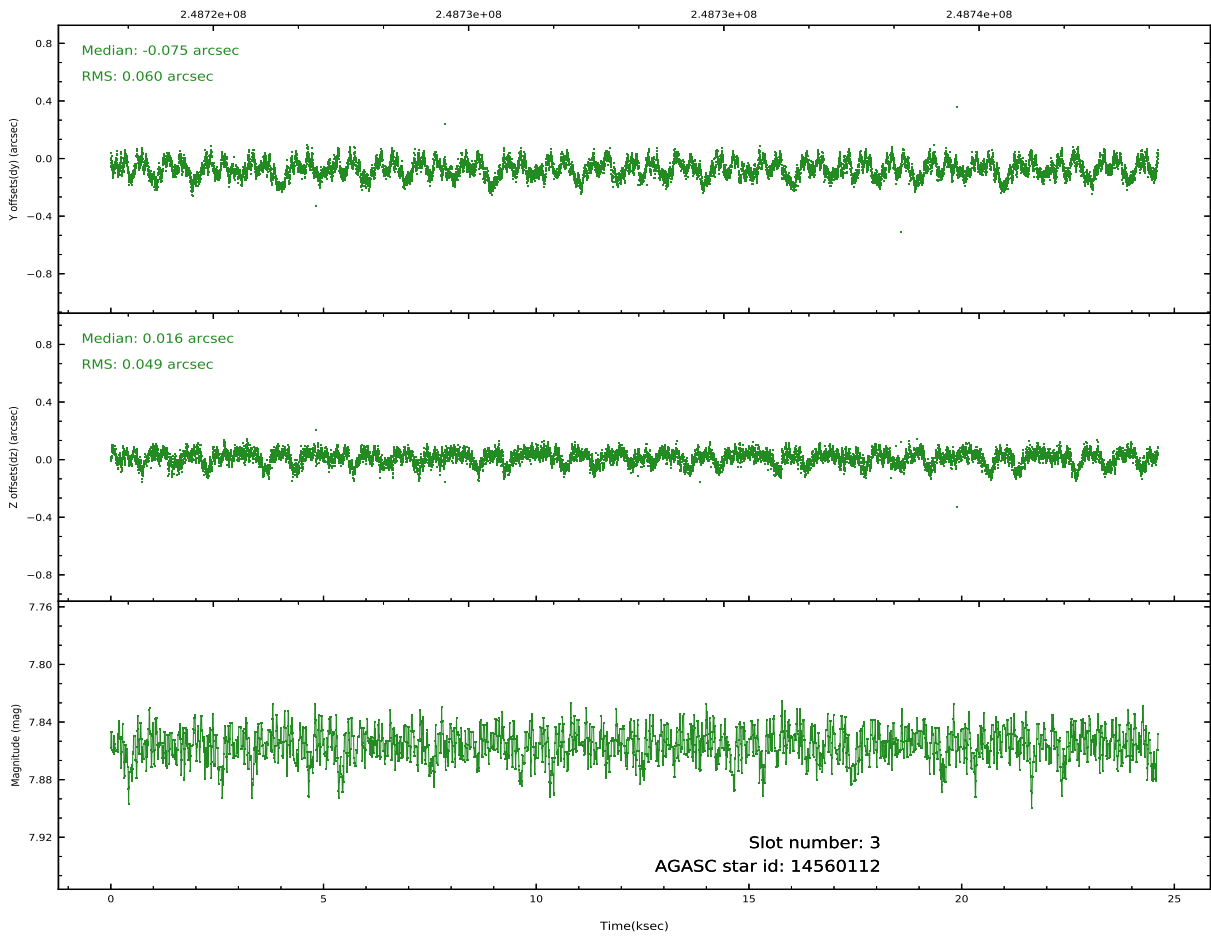
slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.25	6005	1.000	0.018	0.011	0.016	0.056	0.000000	0.000000	934.05	-832
1	FID		ACIS-I-5	7.23	6005	1.000	-0.197	0.028	0.009	0.016	0.000000	0.000000	-1814.22	1064
2	FID		ACIS-I-6	7.25	6005	1.000	0.086	0.033	0.017	0.039	0.000000	0.000000	399.51	1709
3	GUIDE	used	14560112	7.86	12009	1.000	-0.075	0.016	0.083	0.133	78.743343	6.264544	-1254.15	969
4	GUIDE	used	14686528	8.49	12002	1.000	-0.009	-0.111	0.093	0.142	78.860852	7.055515	1384.24	2120
5	GUIDE	used	14692840	7.94	12007	1.000	-0.068	0.072	0.062	0.099	79.616121	6.746510	1871.92	-757
6	GUIDE	used	14693112	9.18	12003	1.000	0.048	0.044	0.085	0.139	79.337646	6.030080	-842.69	-1281
7	GUIDE	used	14688808	9.53	11992	1.000	0.097	-0.016	0.088	0.143	78.822413	6.172596	-1384.94	554

2.4 Star Slots

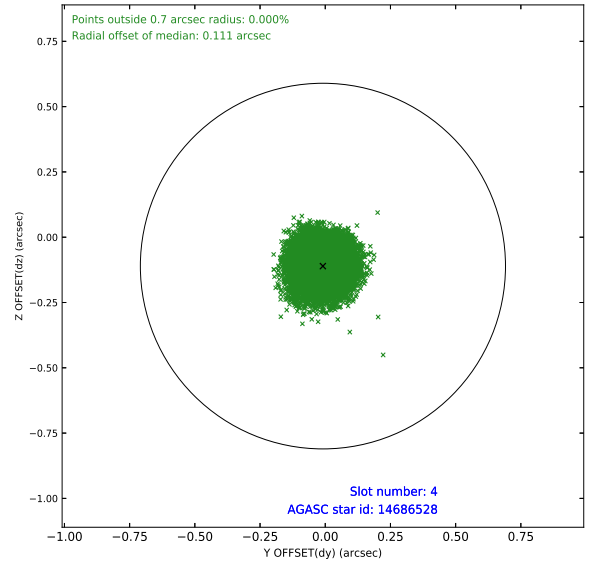
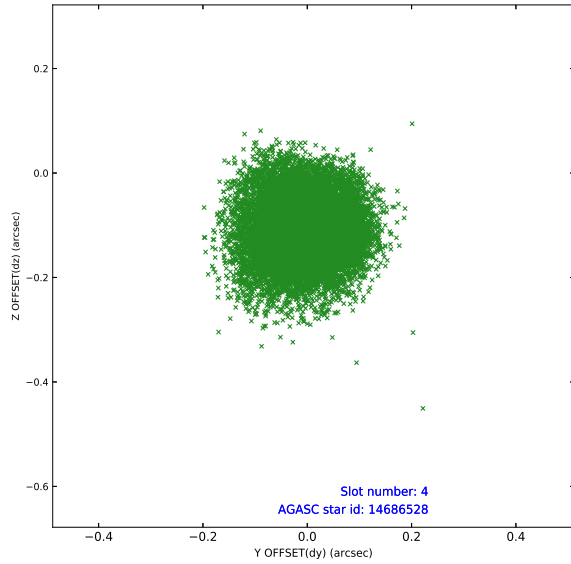
2.4.1 Slot 3



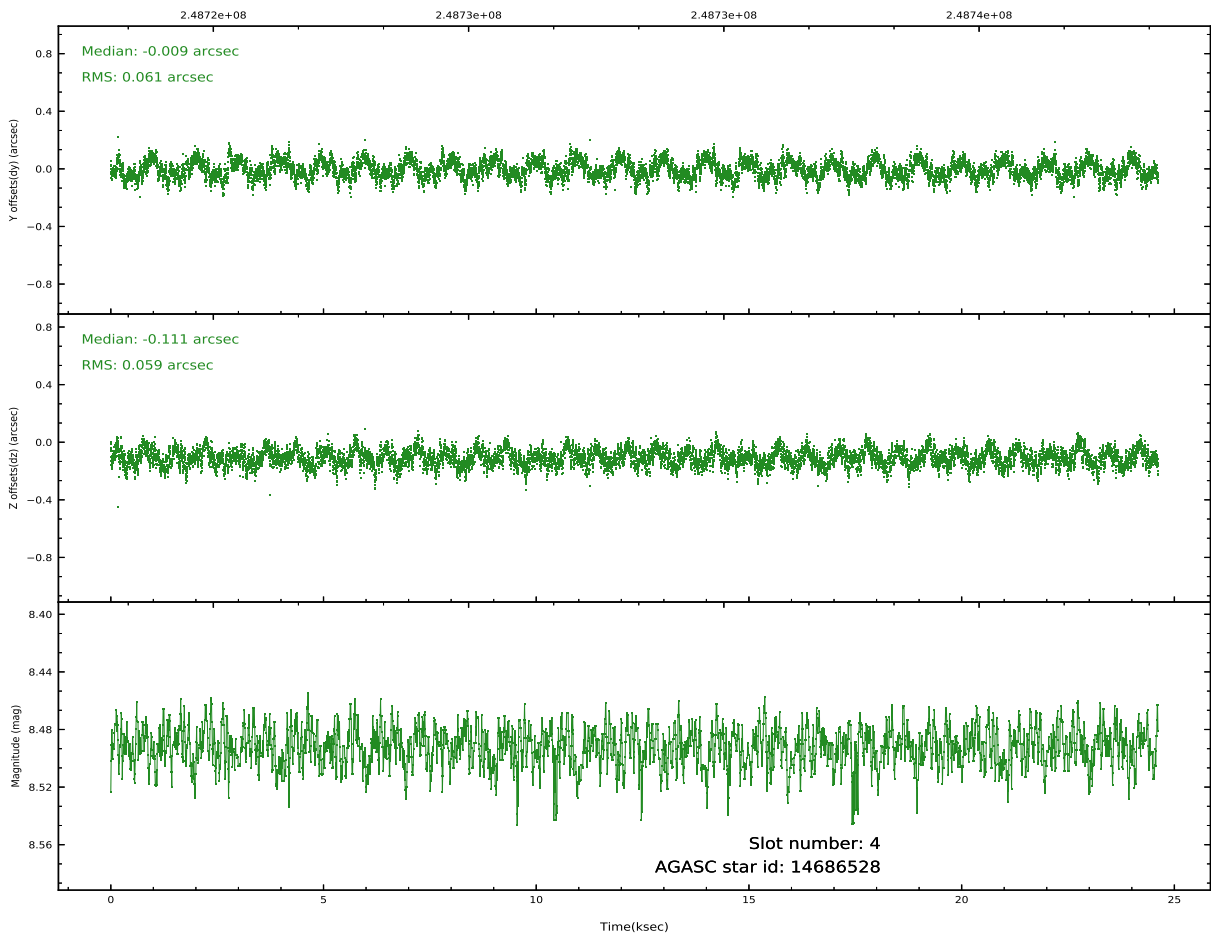
Time (s)



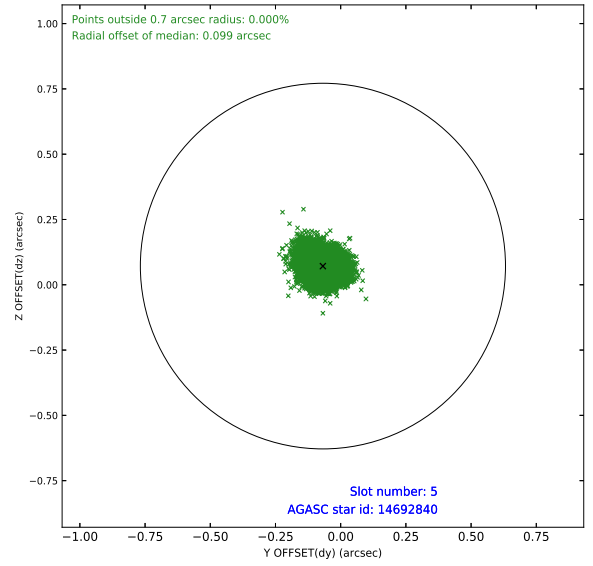
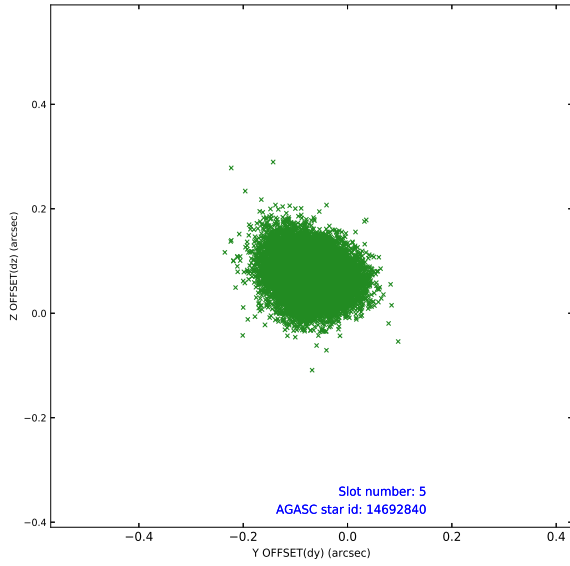
2.4.2 Slot 4



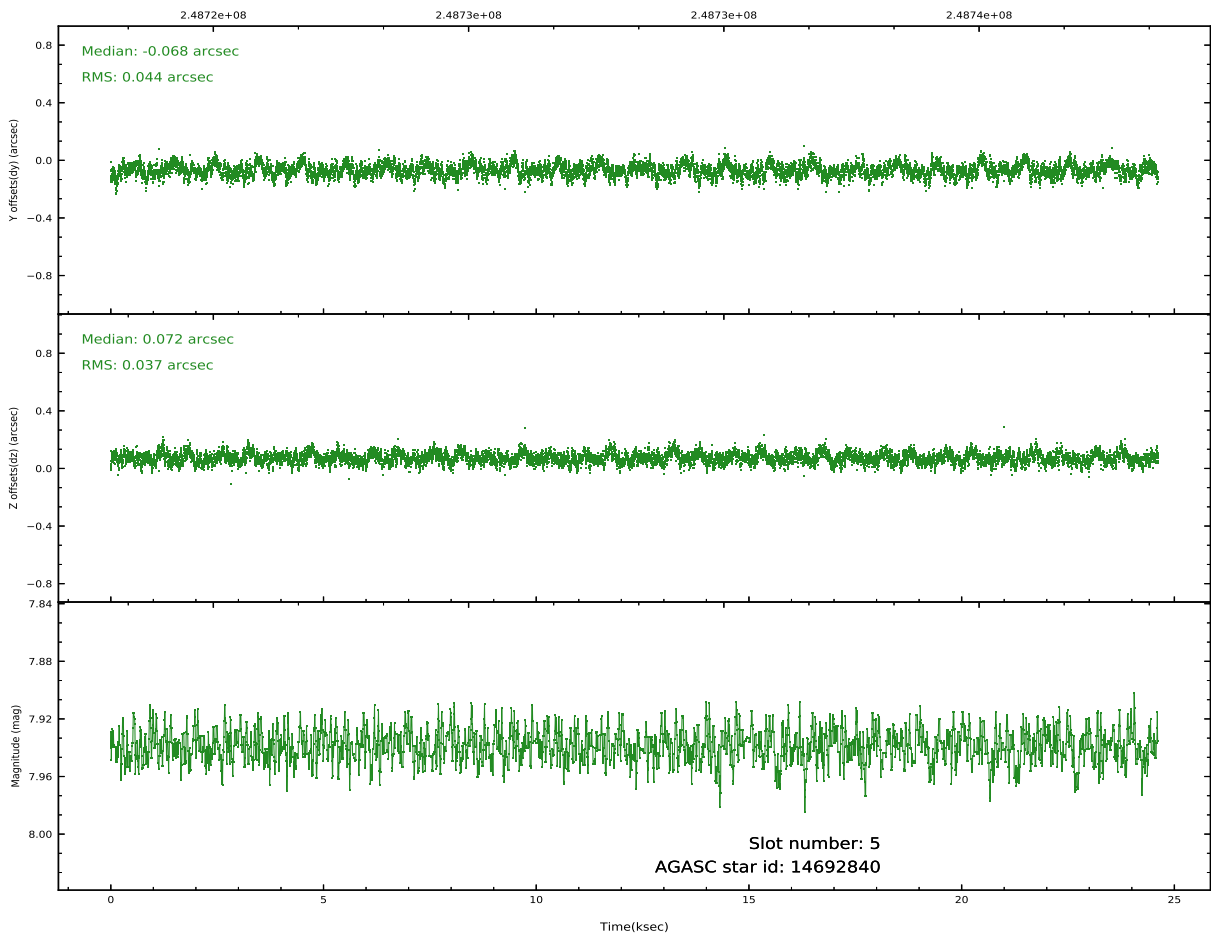
Time (s)



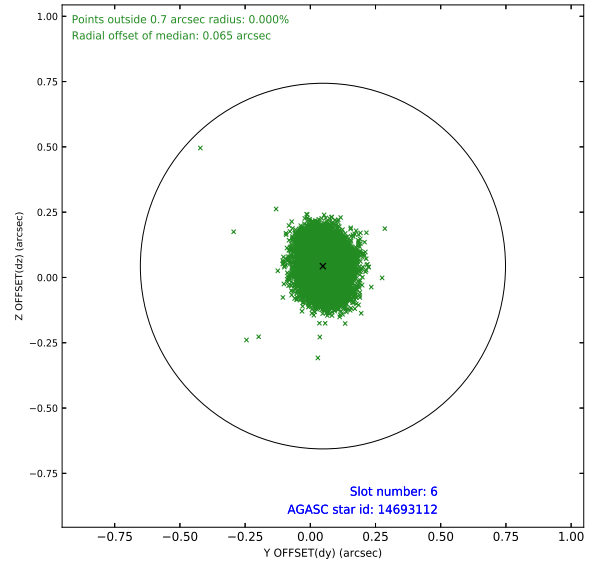
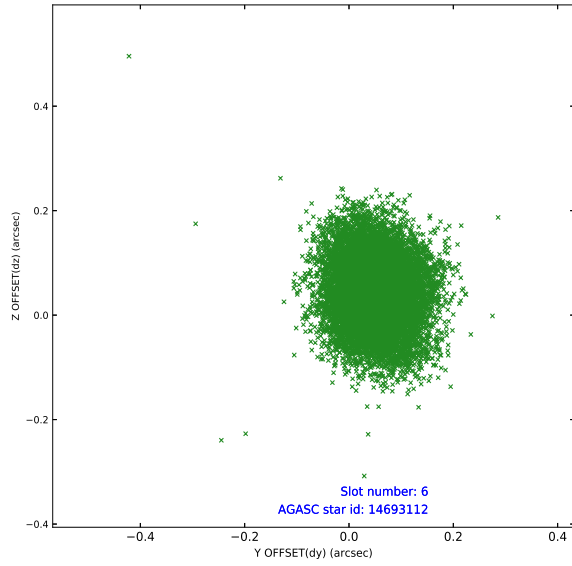
2.4.3 Slot 5



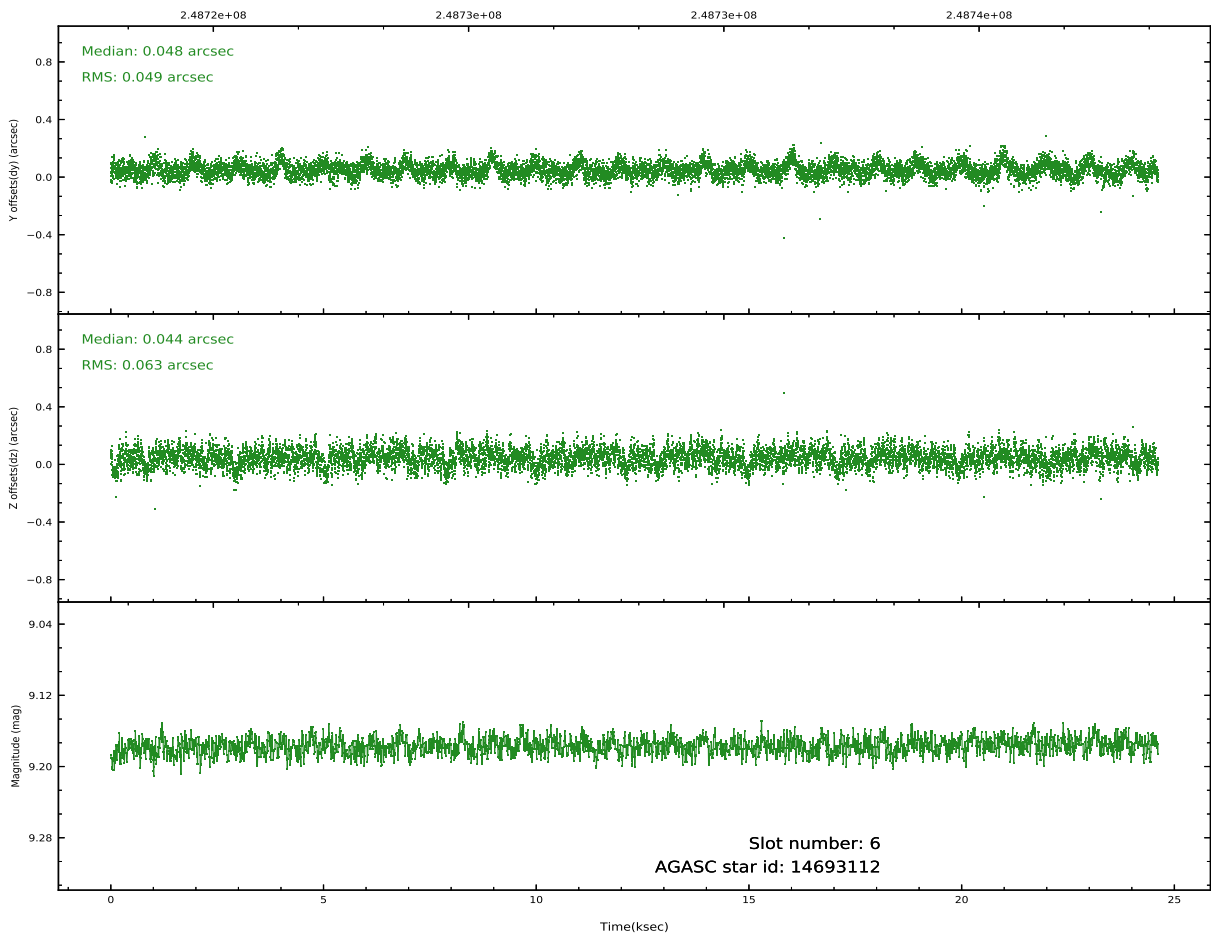
Time (s)



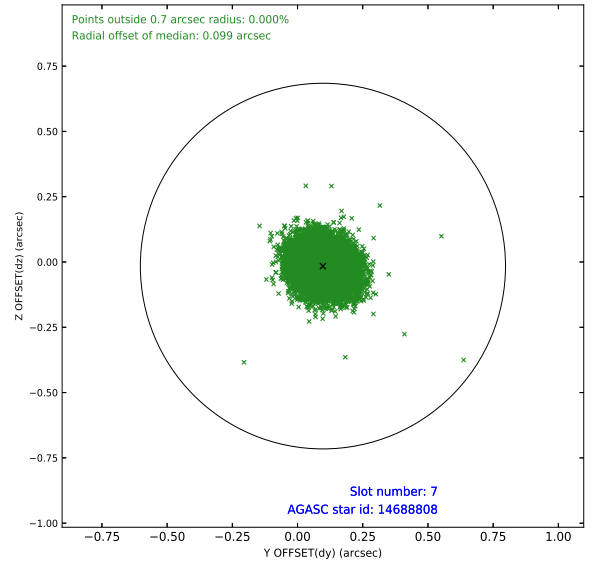
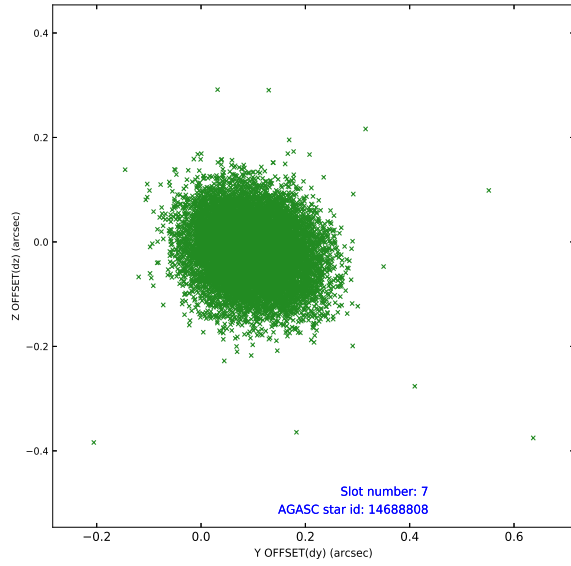
2.4.4 Slot 6



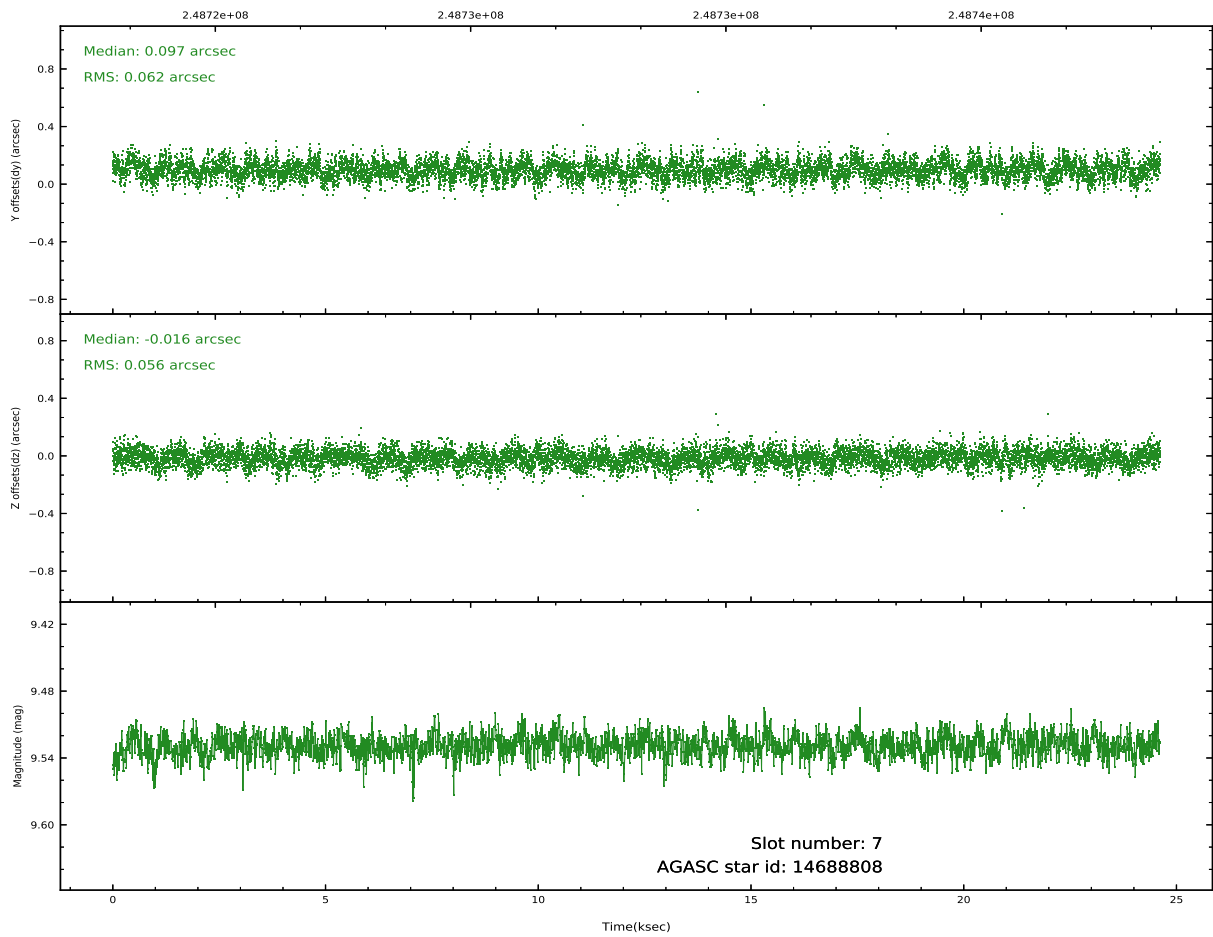
Time (s)



2.4.5 Slot 7

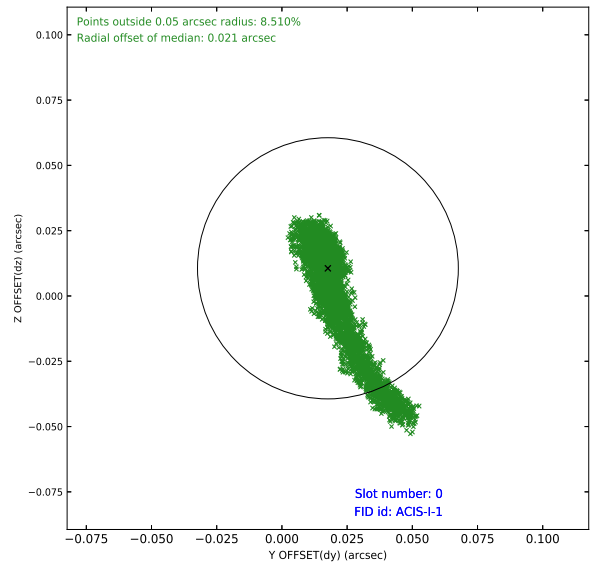
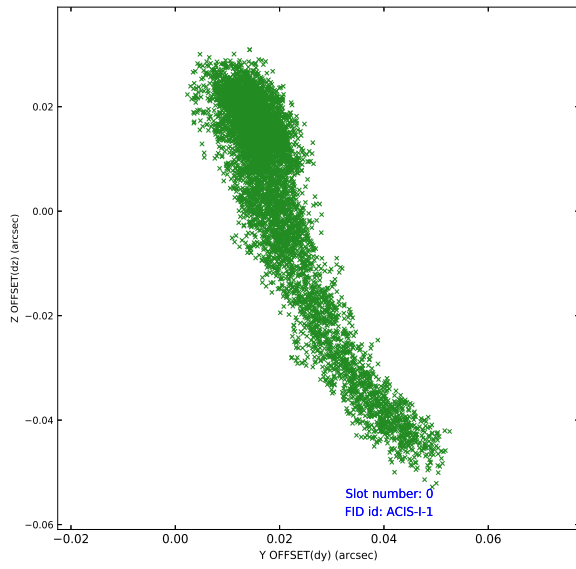


Time (s)

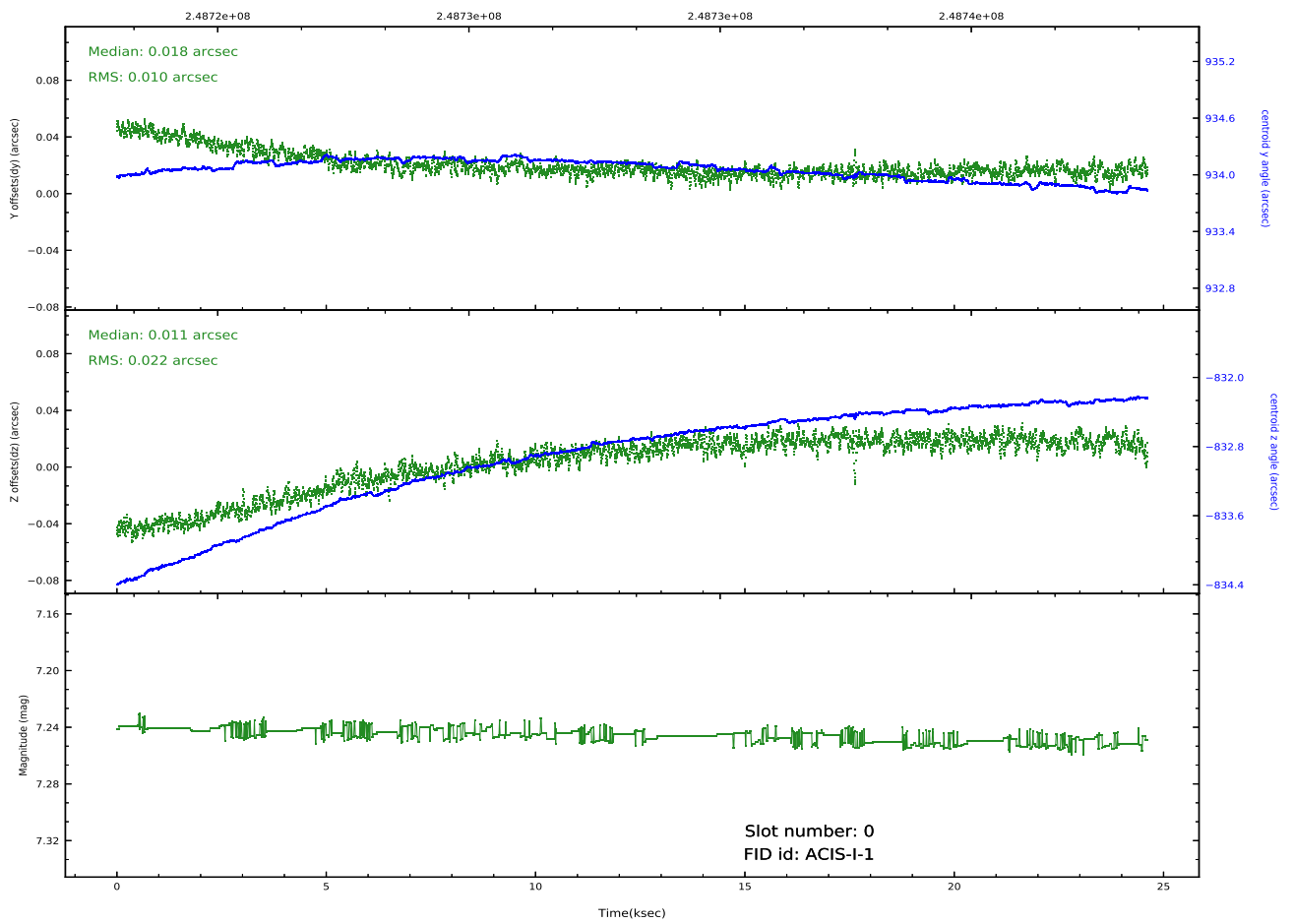


2.5 FID Slots

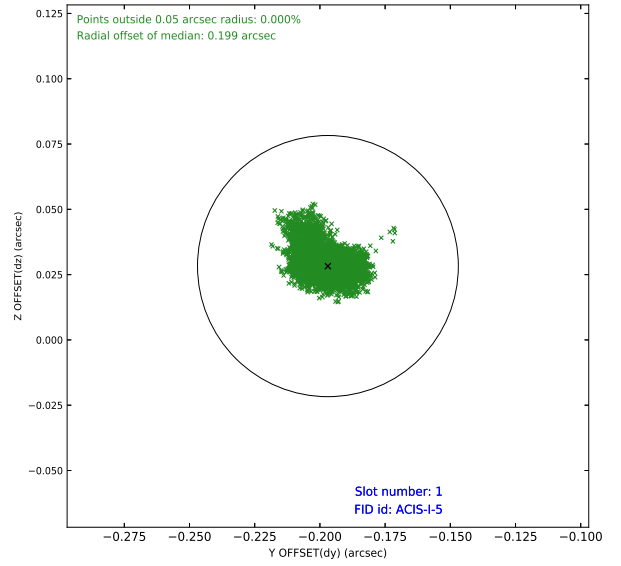
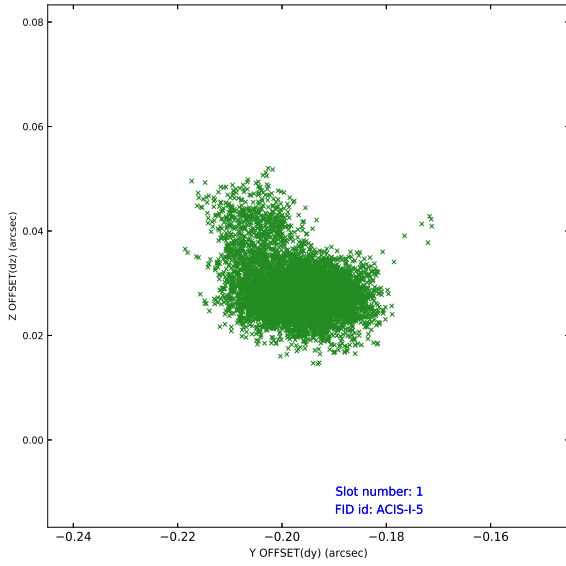
2.5.1 Slot 0



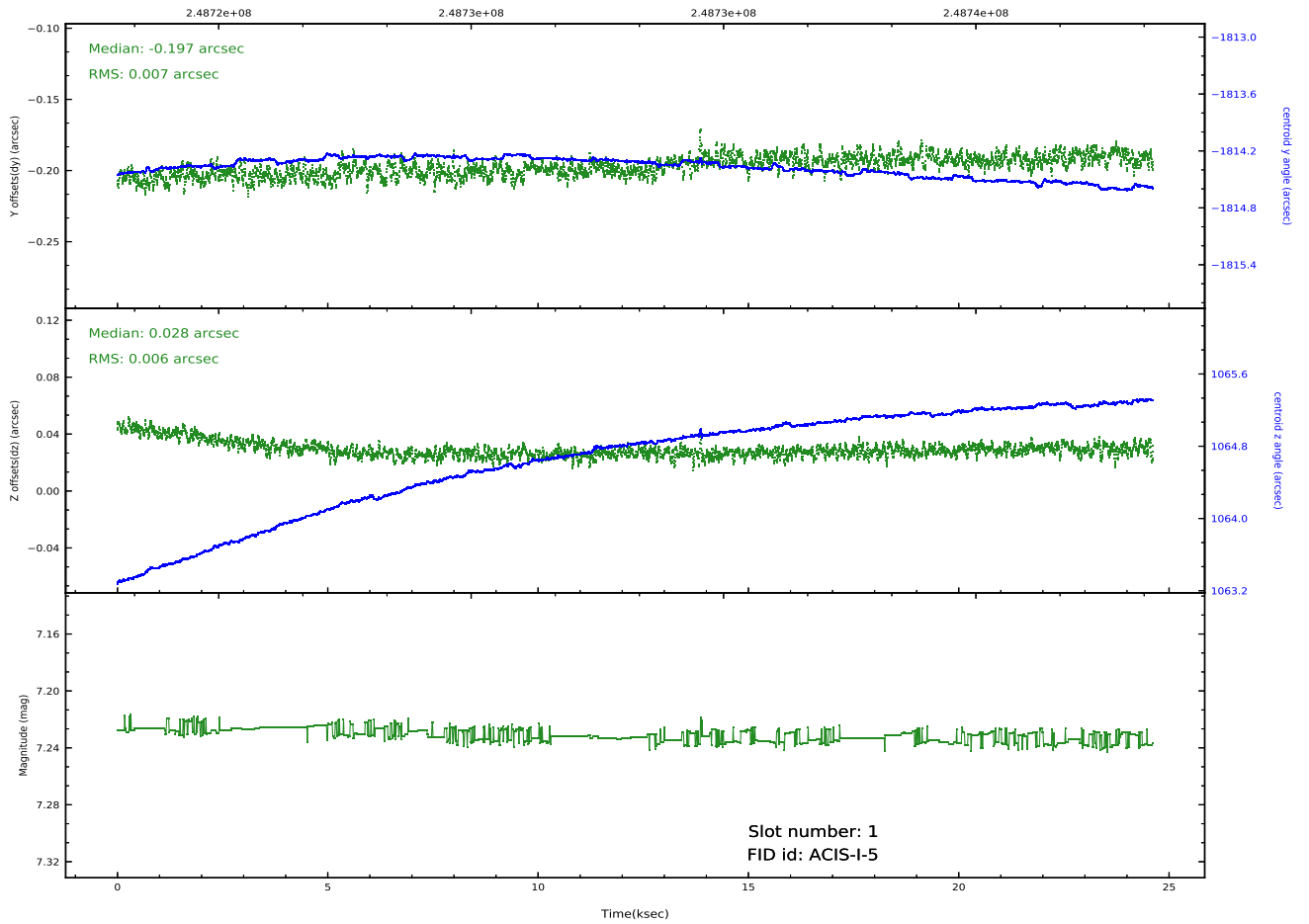
Time (s)



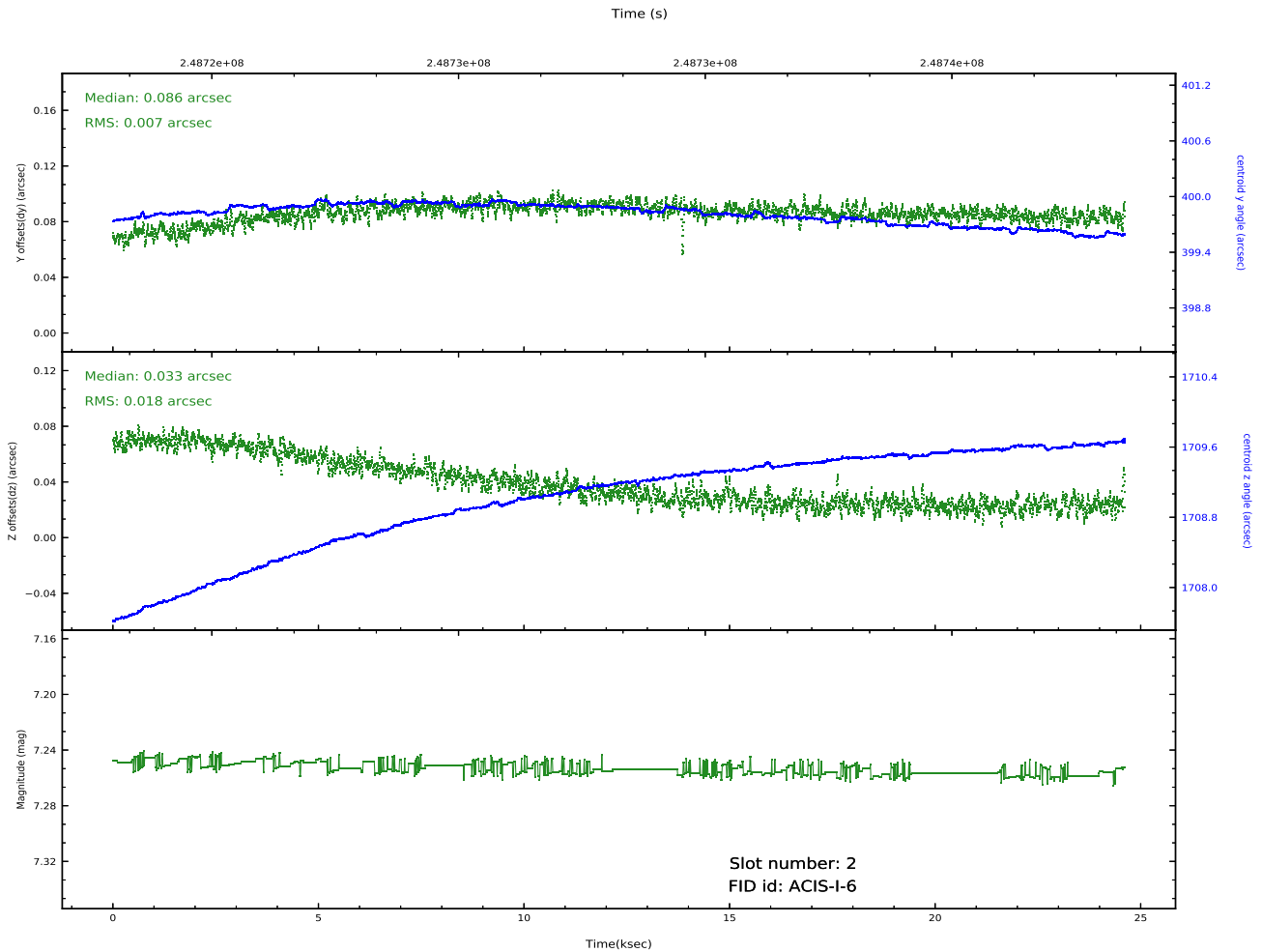
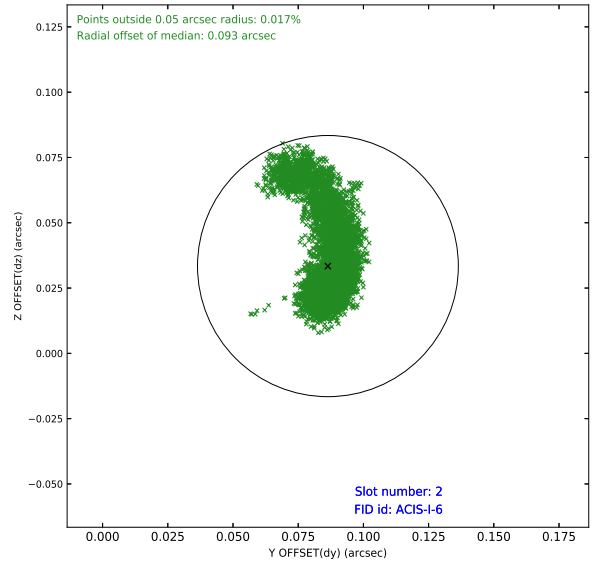
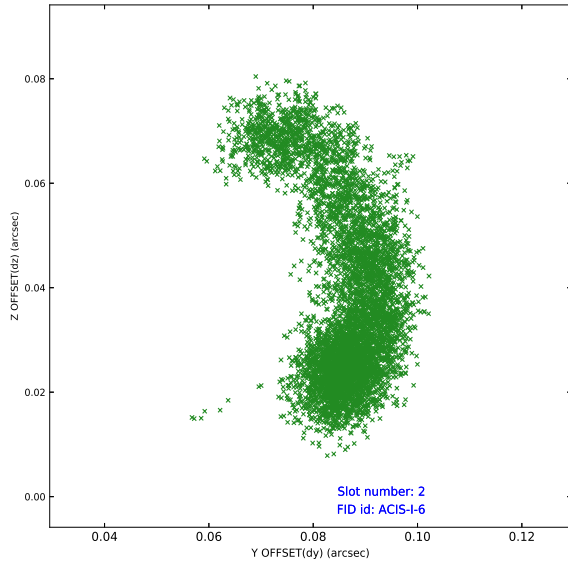
2.5.2 Slot 1



Time (s)



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2020.10.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	24.60457

A.2 Comments