

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5799 - L2 Version 4
Chandra X-Ray Center

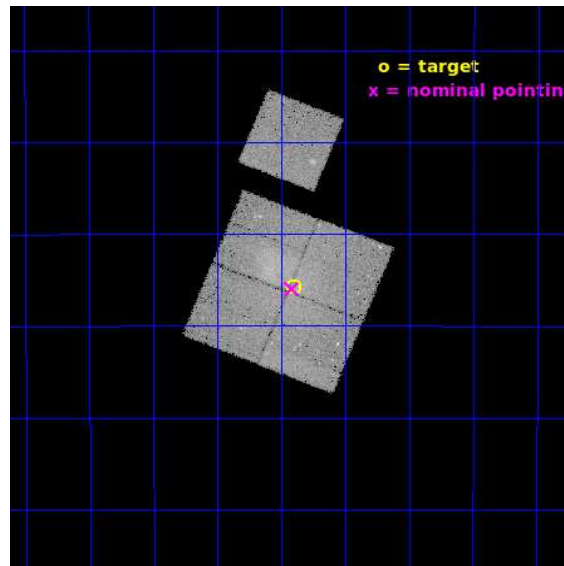
L2 Processing Date : Oct 11 2020

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1 Front

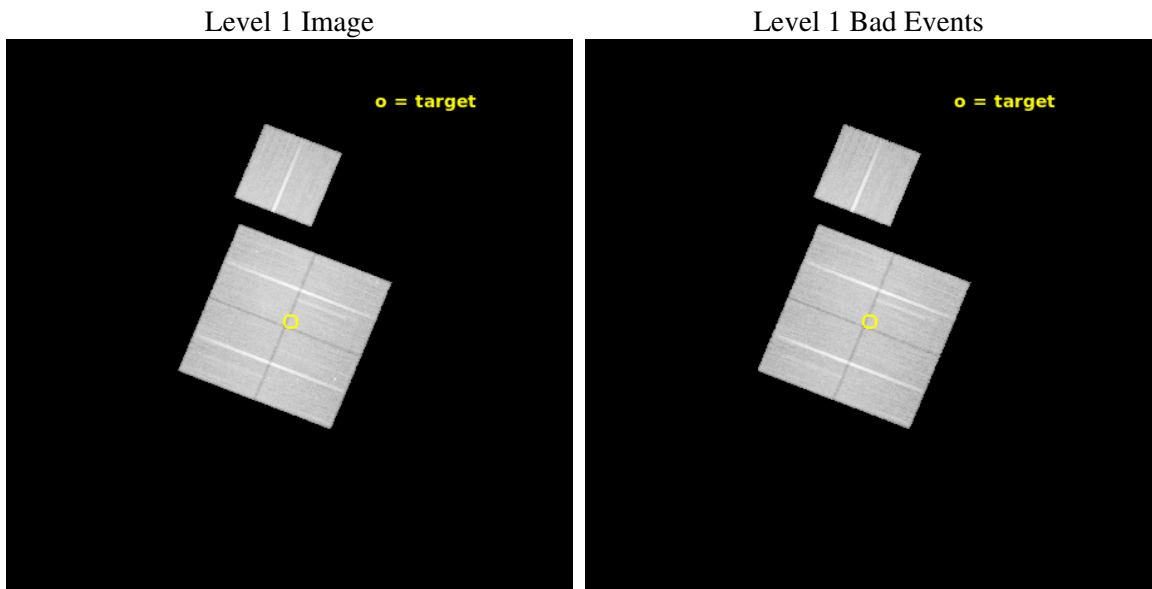
seq_num	800512	Sequence number
obs_id	5799	Observation id
title	X-ray Properties of a Mass-Selected Group Catalog	Proposal title
observer	Prof. Pasquale Mazzotta	Principal investigator
object	ACO 3094	Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	47.85	Observer's specified target RA [deg]
dec_targ	-26.929167	Observer's specified target Dec [deg]
ra_nom	47.854260903849	Nominal RA [deg]
dec_nom	-26.932547363639	Nominal Dec [deg]
roll_nom	21.852679233826	Nominal Roll [deg]
revision	4	Processing version of data
ontime	40147.894941539	Sum of GTIs [s]
livetime	39623.333137677	Livetime [s]
ontime0	40157.317942262	Sum of GTIs [s]
ontime1	40157.317902446	Sum of GTIs [s]
ontime2	40154.176932067	Sum of GTIs [s]
ontime3	40147.894941539	Sum of GTIs [s]
ontime6	40157.317932248	Sum of GTIs [s]
l2events	128496	Number of level 2 events



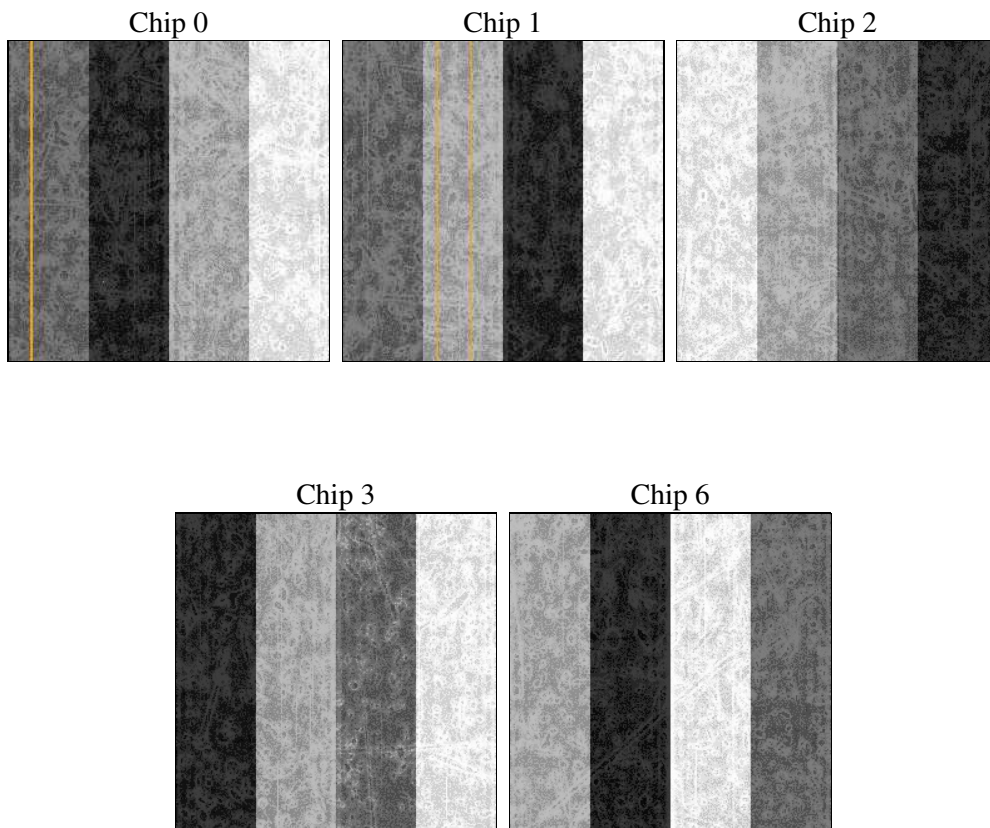
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	40000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	40147.894941539	Sum of GTIs [s]
caldbver	4.9.2	 	ontime0	40157.317942262	Sum of GTIs [s]
date	2020-10-11T04:38:05	Date and time of file creation	ontime1	40157.317902446	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	40154.176932067	Sum of GTIs [s]
			ontime3	40147.894941539	Sum of GTIs [s]
			ontime6	40157.317932248	Sum of GTIs [s]
			l1events	1341819	Number of level 1 events

2.1.4 Events

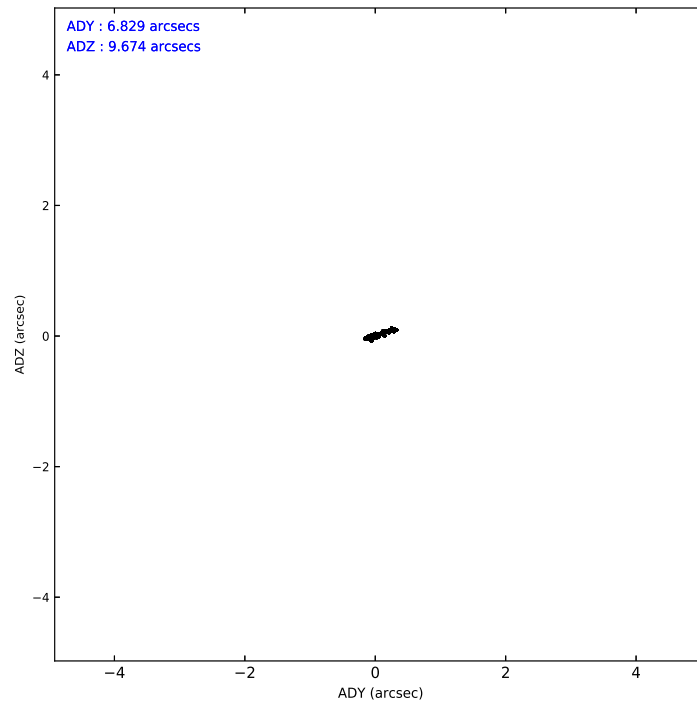
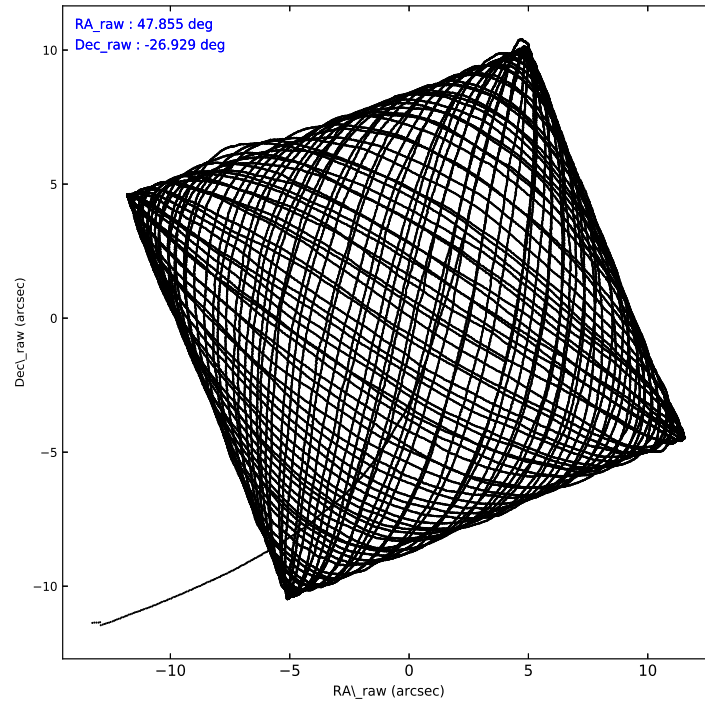
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	256536	253692	292385	271883	267323
rejected events	227432	220759	256929	243130	240795
rejected %	88%	87%	87%	89%	90%

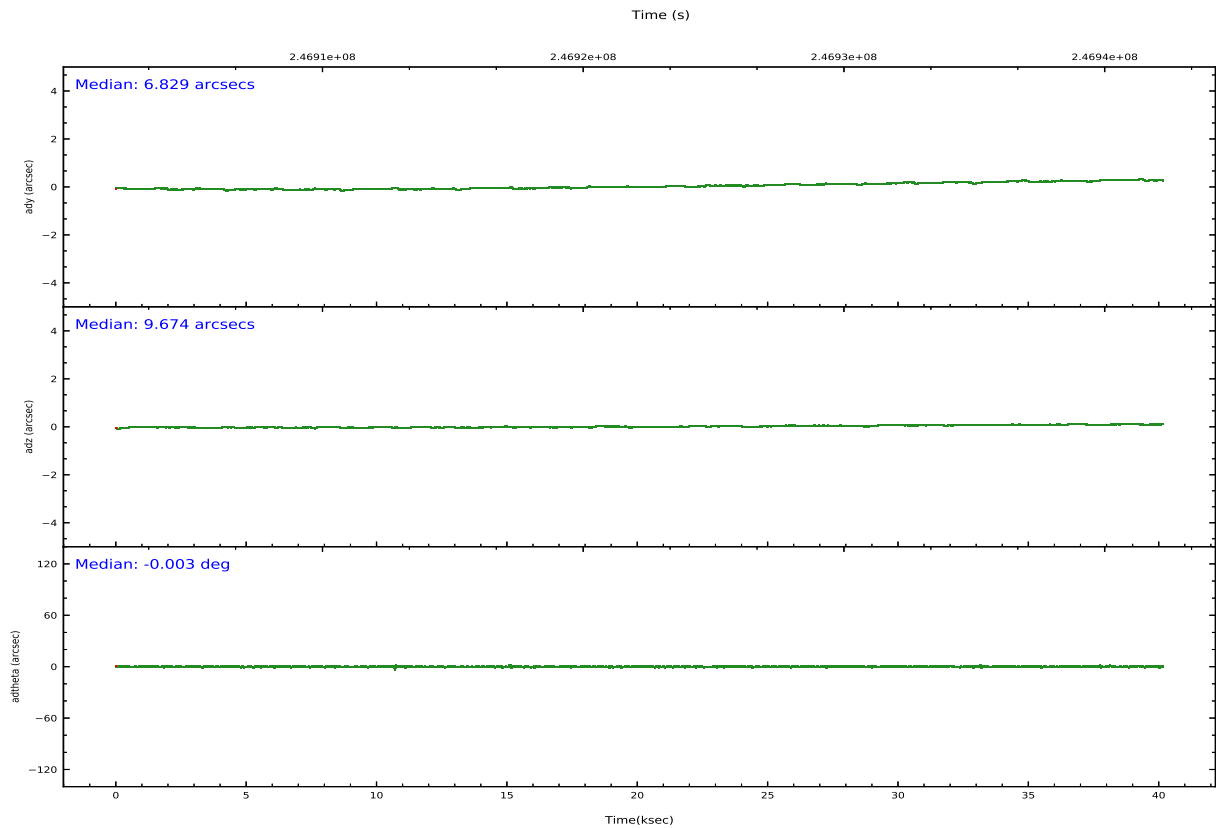
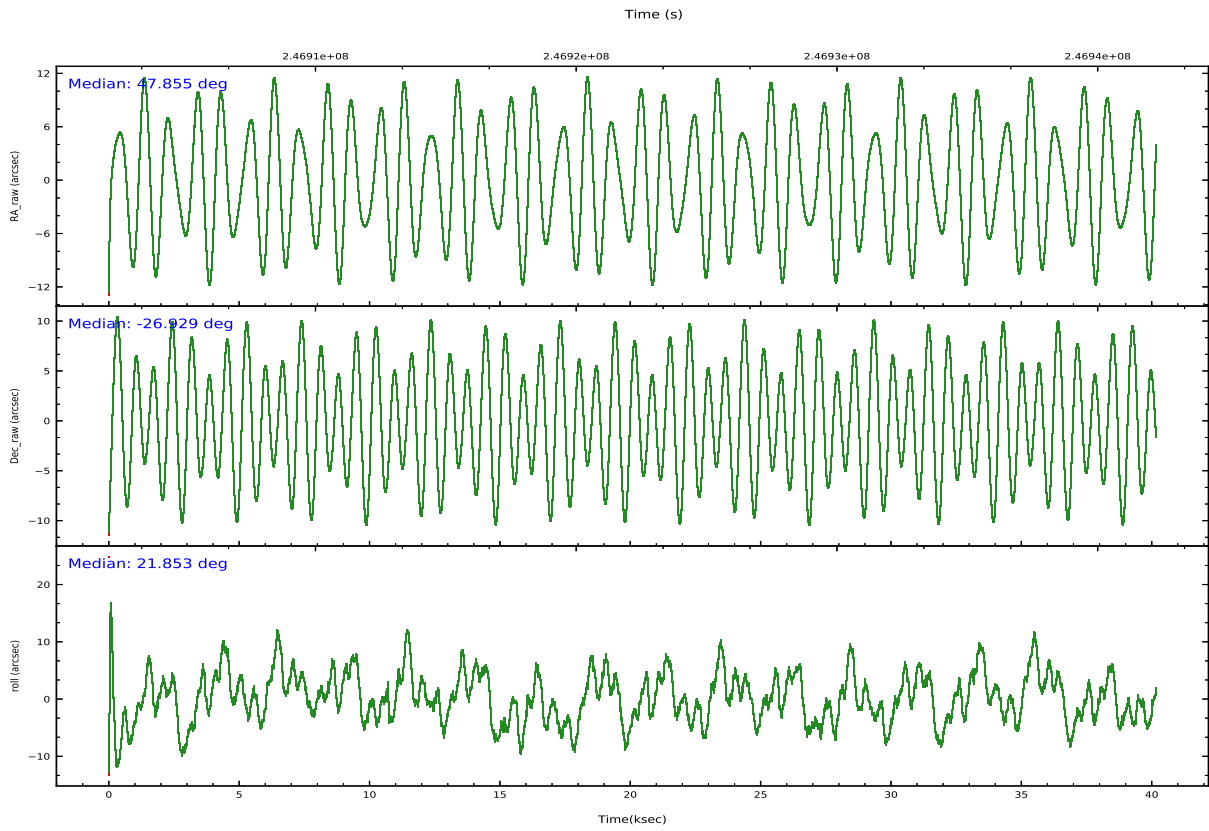
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	11680	13606	17687	12118	9156
	4%	5%	6%	4%	3%
grade 1 events	148	122	182	146	119
	0%	0%	0%	0%	0%
grade 2 events	6608	6859	6990	5827	5686
	2%	2%	2%	2%	2%
grade 3 events	3222	3438	3063	2964	3077
	1%	1%	1%	1%	1%
grade 4 events	2830	3336	3165	3025	2973
	1%	1%	1%	1%	1%
grade 5 events	9234	10175	8622	10713	10586
	3%	4%	2%	3%	3%
grade 6 events	4993	5978	4809	5048	5831
	1%	2%	1%	1%	2%
grade 7 events	217821	210178	247867	232042	229895
	84%	82%	84%	85%	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	47.836327	47.854260903849	Subarray requested	NONE	NONE
[deg] Pointing Dec	-26.950856	-26.932547363639	Alternating exposures requested	N	N
[deg] Pointing Roll	21.641370	21.852679233826	[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)	246902243.184000	246901099.53401			
Observation start date	2005-10-28T15:56:19	2005-10-28T15:38:19			
[s] Observation end time (MET)	246942243.184000	246943766.69848			
Observation end date	2005-10-29T03:02:59	2005-10-29T03:29:26			
Read mode	TIMED	TIMED			

2.3 Aspect





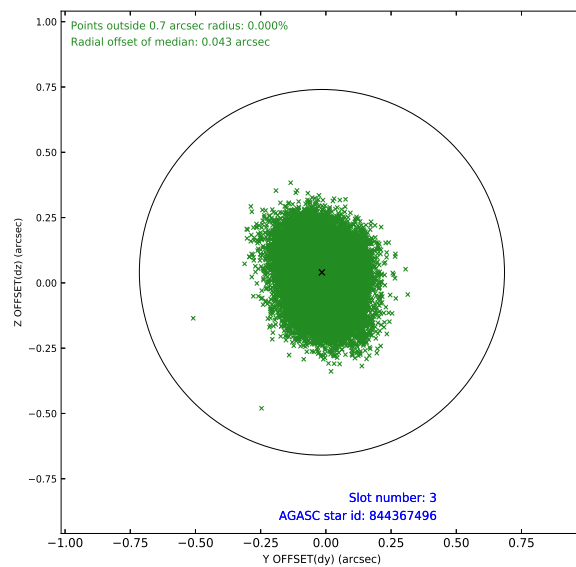
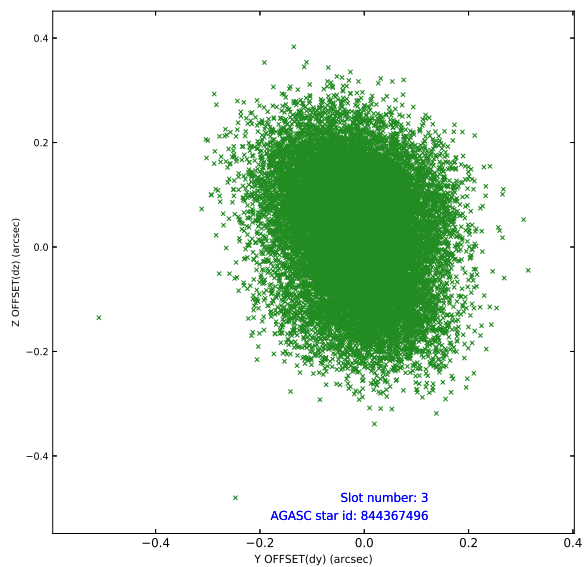
Slot Statistics

slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_x
0	FID		ACIS-I-1	7.25	9797	1.000	0.013	-0.002	0.006	0.012	0.000000	0.000000	932.84	-833
1	FID		ACIS-I-5	7.23	9795	1.000	-0.193	0.021	0.006	0.011	0.000000	0.000000	-1815.49	1064
2	FID		ACIS-I-6	7.26	9797	1.000	0.089	0.052	0.007	0.011	0.000000	0.000000	398.41	1708
3	GUIDE	used	844367496	9.99	19570	1.000	-0.015	0.040	0.148	0.236	48.457244	-27.056190	1708.47	-1091
4	GUIDE	used	844367568	9.69	19569	1.000	0.090	-0.048	0.113	0.192	48.140300	-26.953489	903.23	-369
5	GUIDE	used	844374376	10.33	19445	1.000	0.006	0.055	0.191	0.315	48.127669	-26.234520	1825.24	2049
6	GUIDE	used	844762088	9.92	19580	1.000	-0.045	-0.031	0.138	0.219	47.754474	-27.567808	-1060.97	-1968
7	GUIDE	used	844762352	9.11	19584	1.000	-0.032	-0.023	0.109	0.174	48.021704	-27.578048	-282.47	-2317

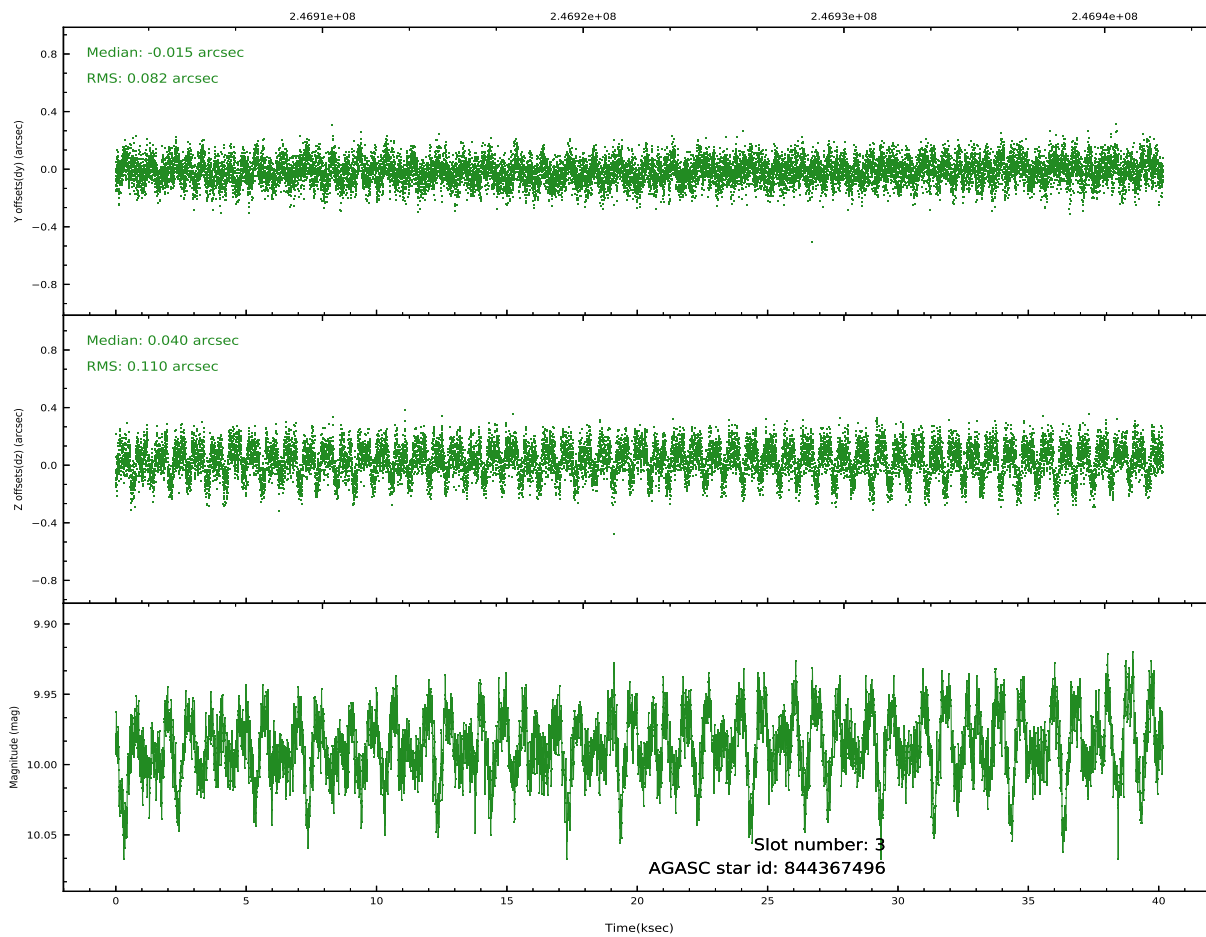
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2.4 Star Slots

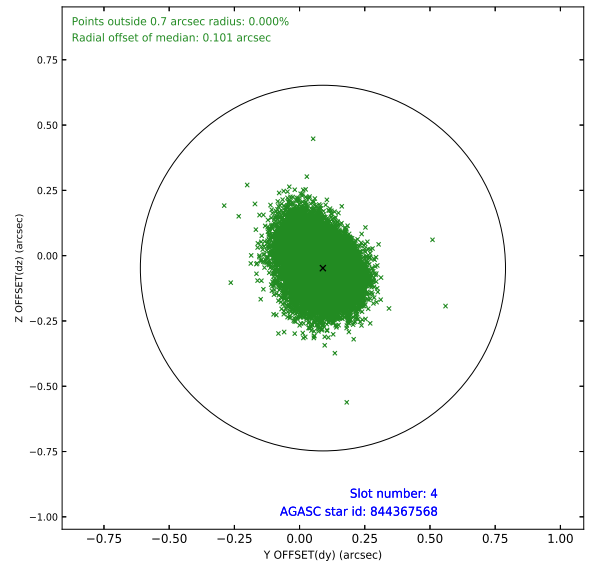
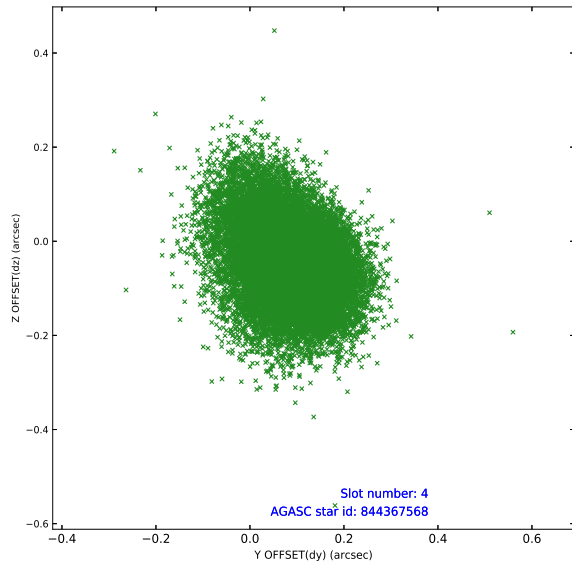
2.4.1 Slot 3



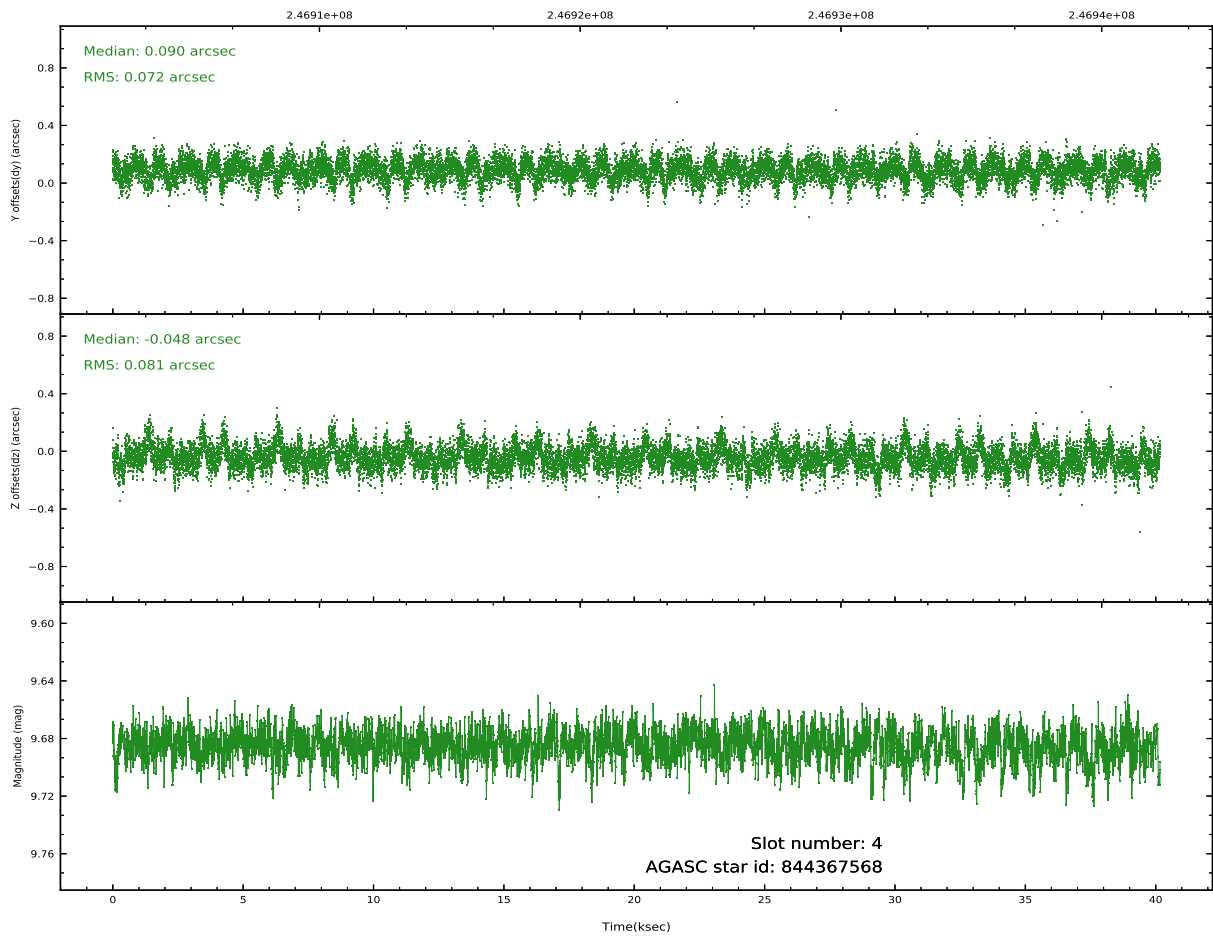
Time (s)



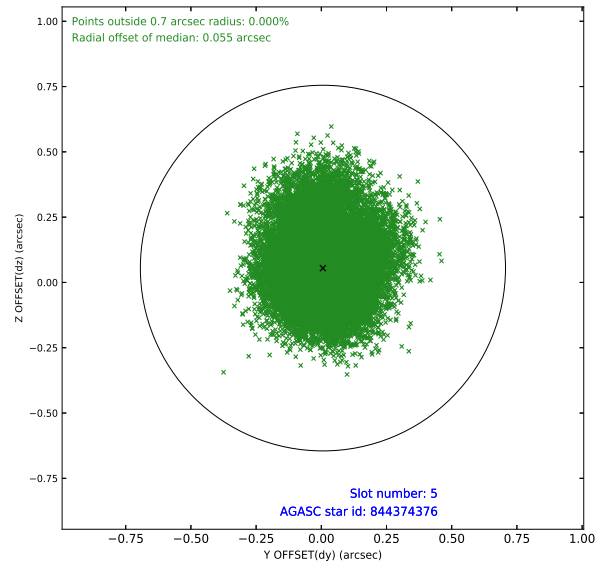
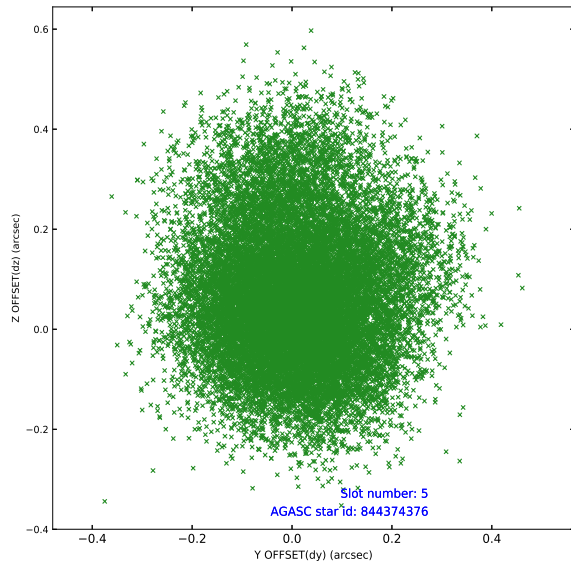
2.4.2 Slot 4



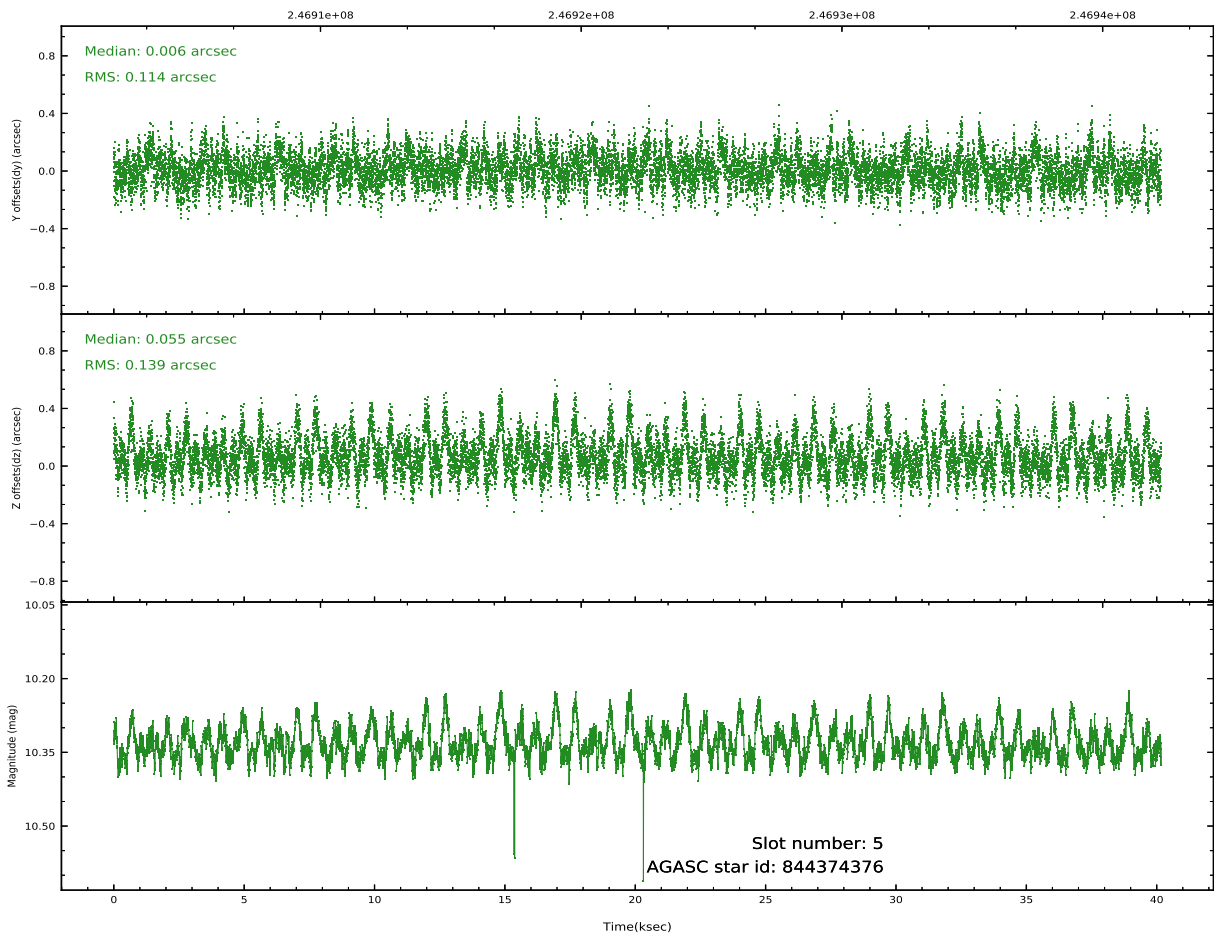
Time (s)



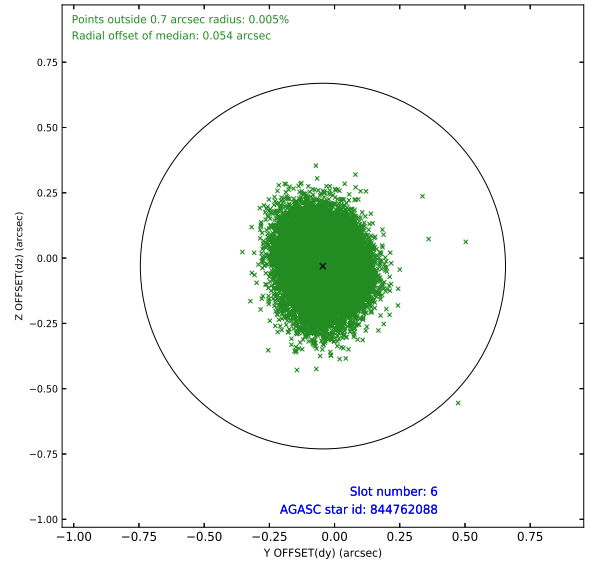
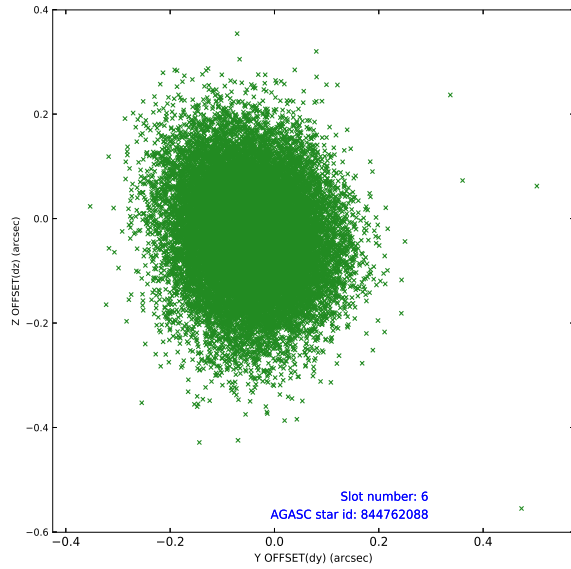
2.4.3 Slot 5



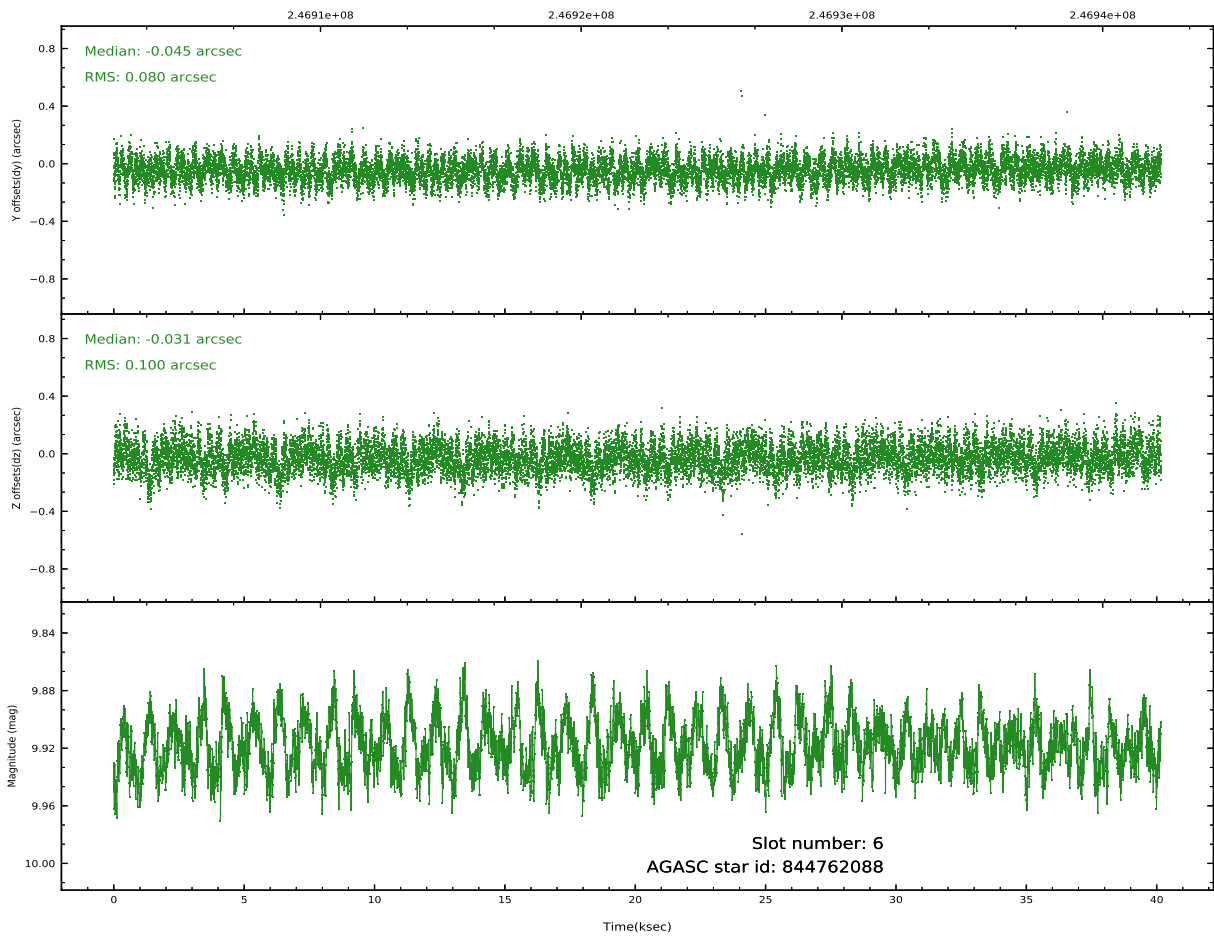
Time (s)



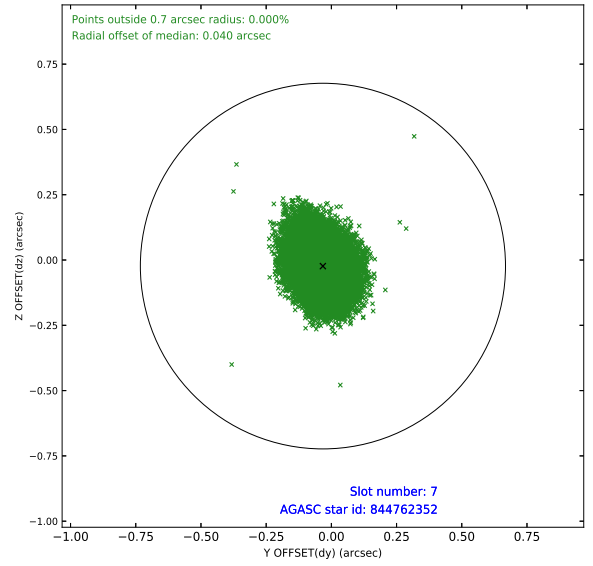
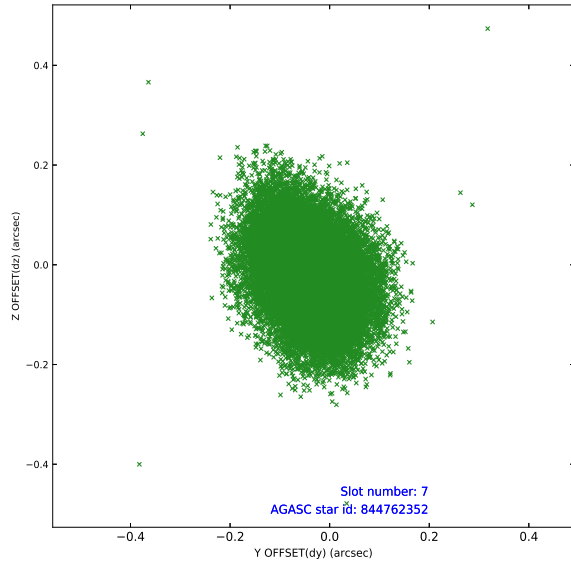
2.4.4 Slot 6



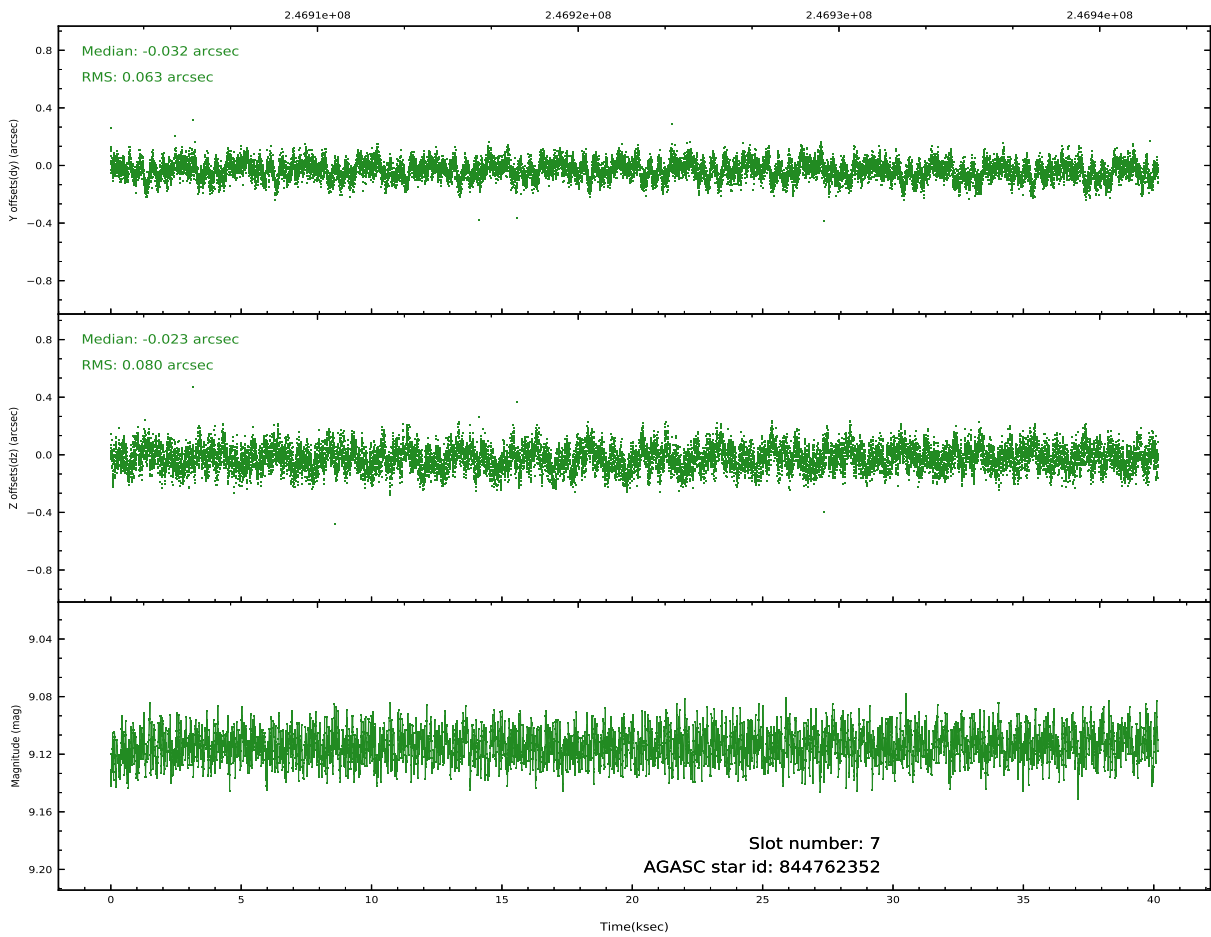
Time (s)



2.4.5 Slot 7

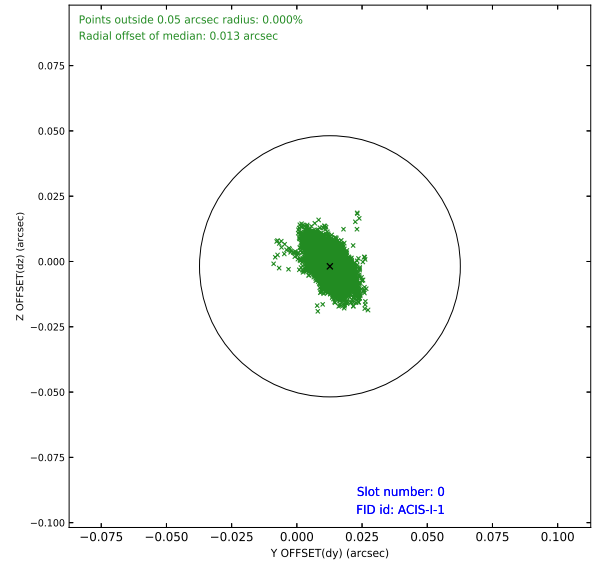
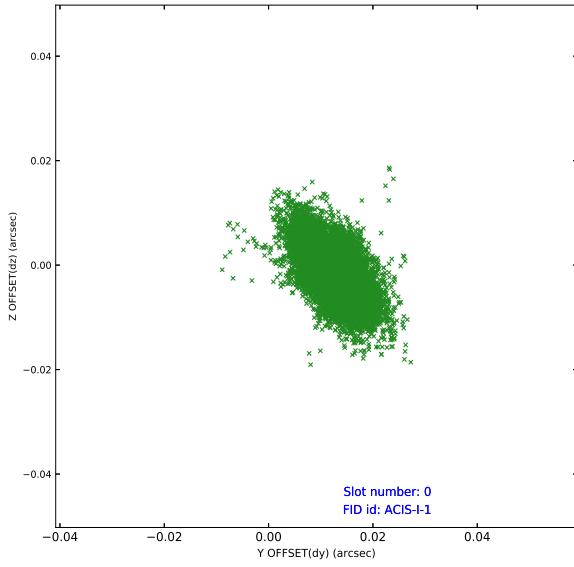


Time (s)

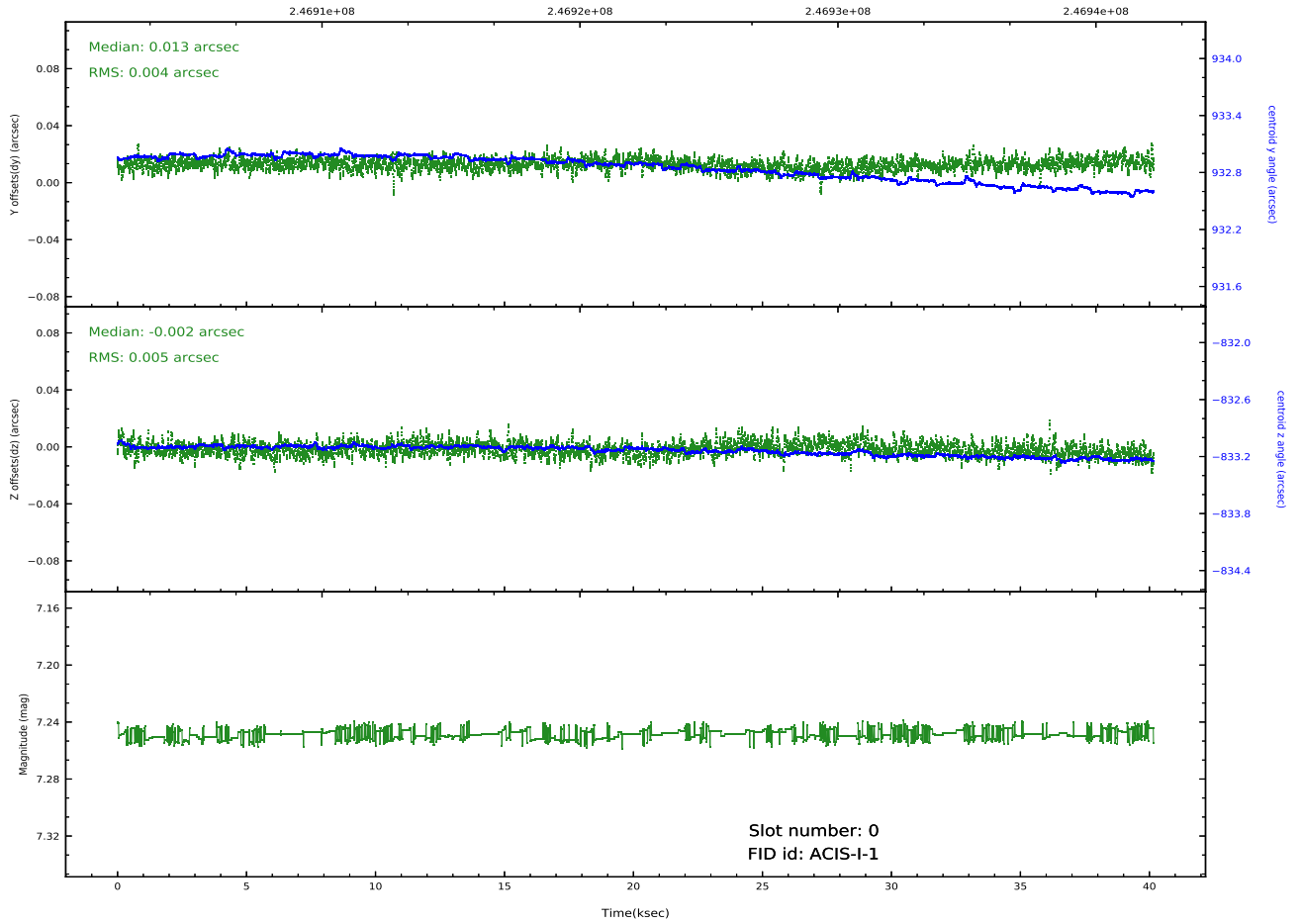


2.5 FID Slots

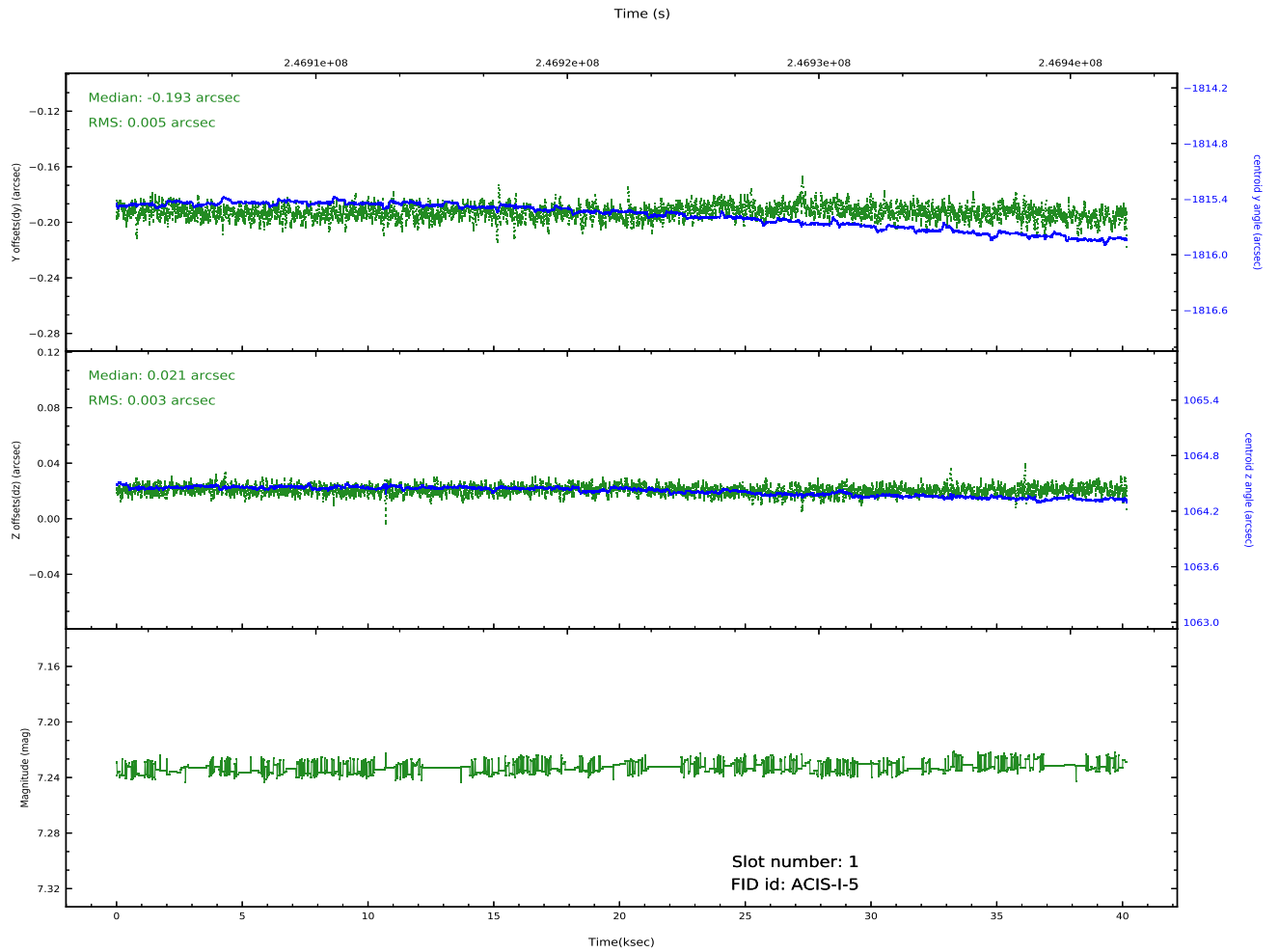
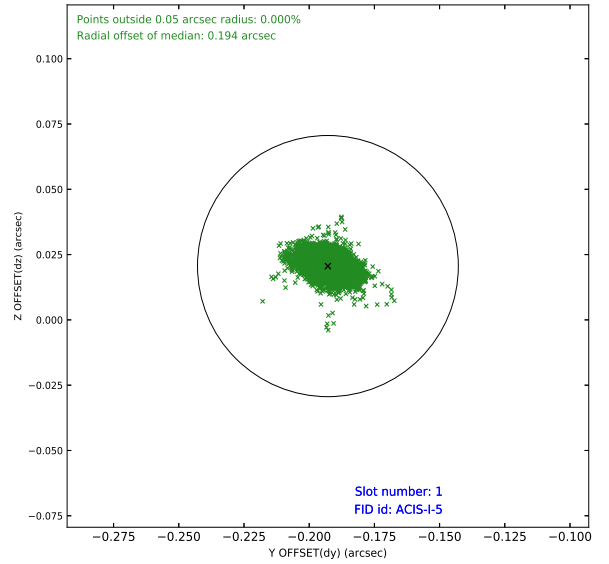
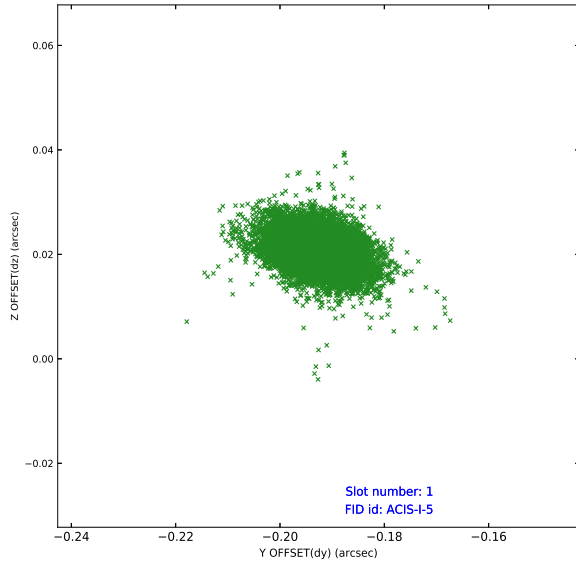
2.5.1 Slot 0



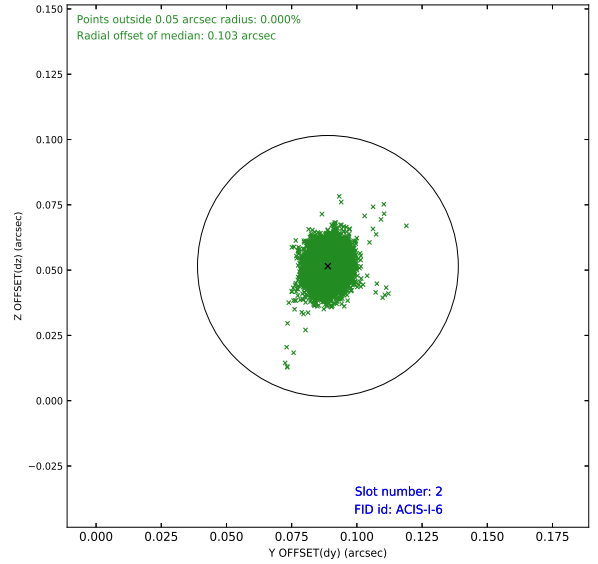
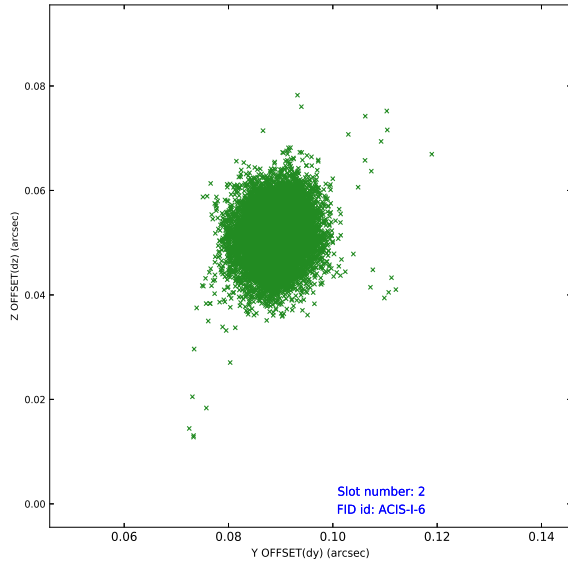
Time (s)



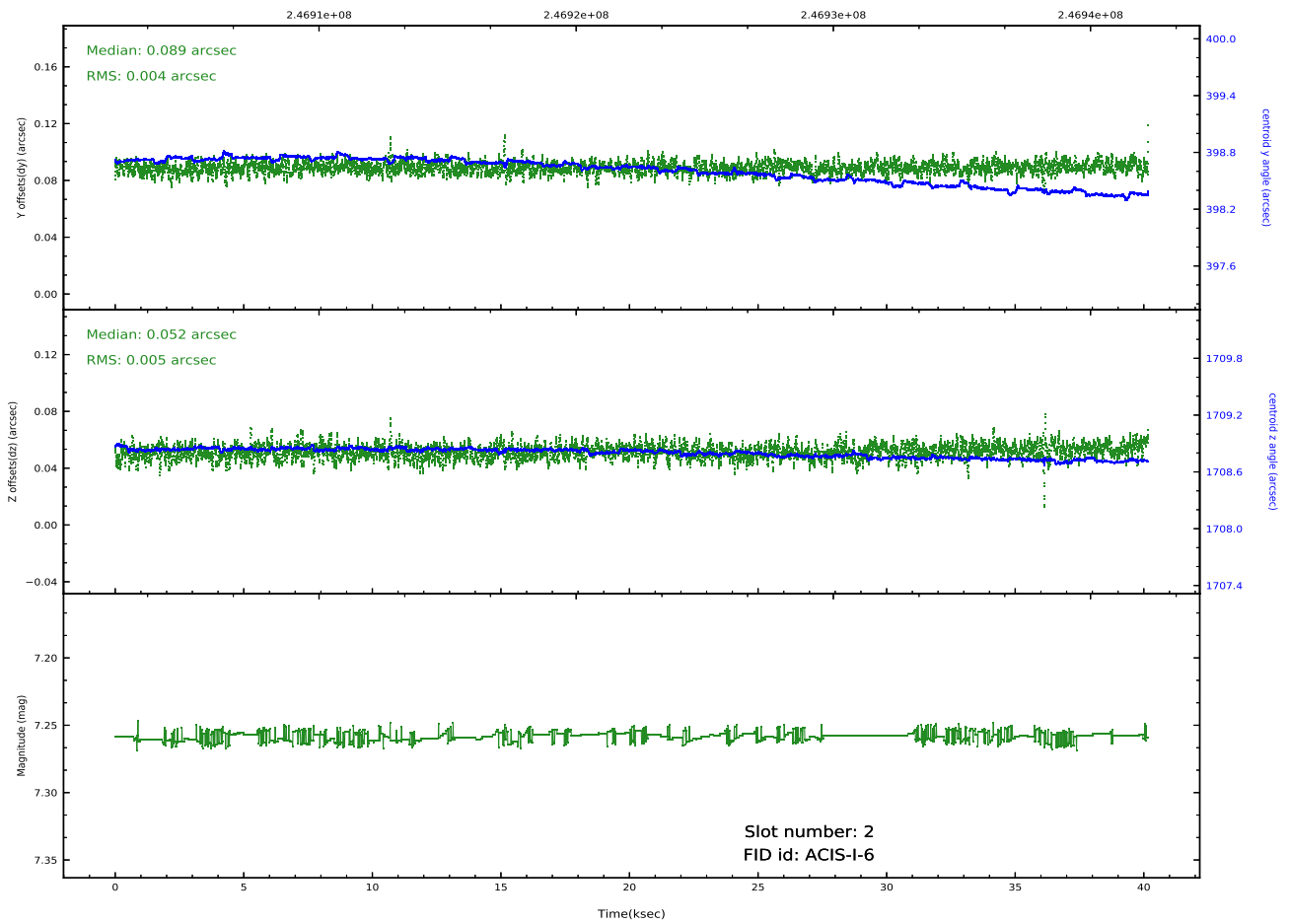
2.5.2 Slot 1



2.5.3 Slot 2



Time (s)



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	40.14789

A.2 Comments