

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5384 - L2 Version 4
Chandra X-Ray Center

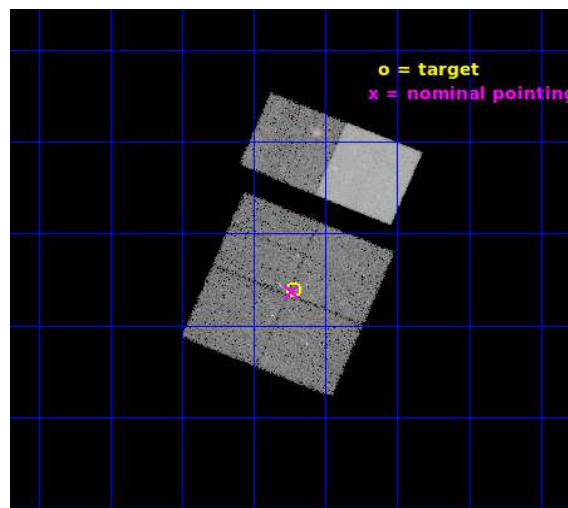
L2 Processing Date : Oct 11 2020

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1 Front

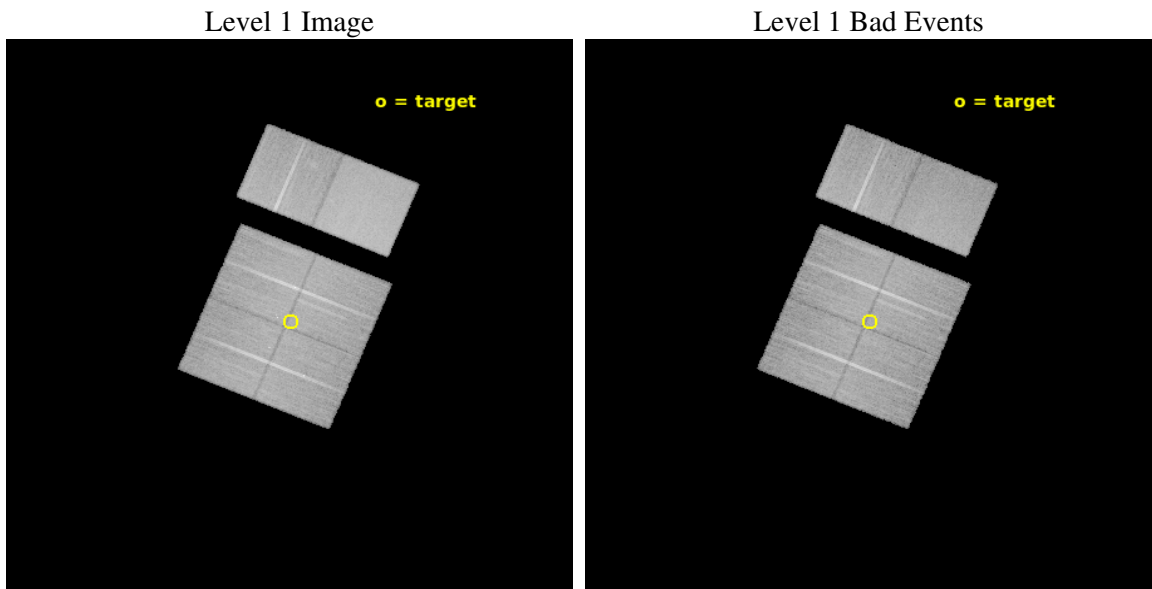
seq_num	200319	Sequence number
obs_id	5384	Observation id
title	X-ray Imaging of McNeil's Star: Witnessing the Onset of an Accretion Burst	Proposal title
observer	Joel Kastner	Principal investigator
object	IRAS05436-0007	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	86.554583	Observer's specified target RA [deg]
dec_targ	-0.101389	Observer's specified target Dec [deg]
ra_nom	86.558453793125	Nominal RA [deg]
dec_nom	-0.10527393656427	Nominal Dec [deg]
roll_nom	22.560070712791	Nominal Roll [deg]
revision	4	Processing version of data
ontime	19951.958925366	Sum of GTIs [s]
livetime	19699.315207826	Livetime [s]
ontime0	19955.199925661	Sum of GTIs [s]
ontime1	19955.199925661	Sum of GTIs [s]
ontime2	19955.199925661	Sum of GTIs [s]
ontime3	19951.958925366	Sum of GTIs [s]
ontime6	19955.199925661	Sum of GTIs [s]
ontime7	19955.199925661	Sum of GTIs [s]
l2events	171698	Number of level 2 events



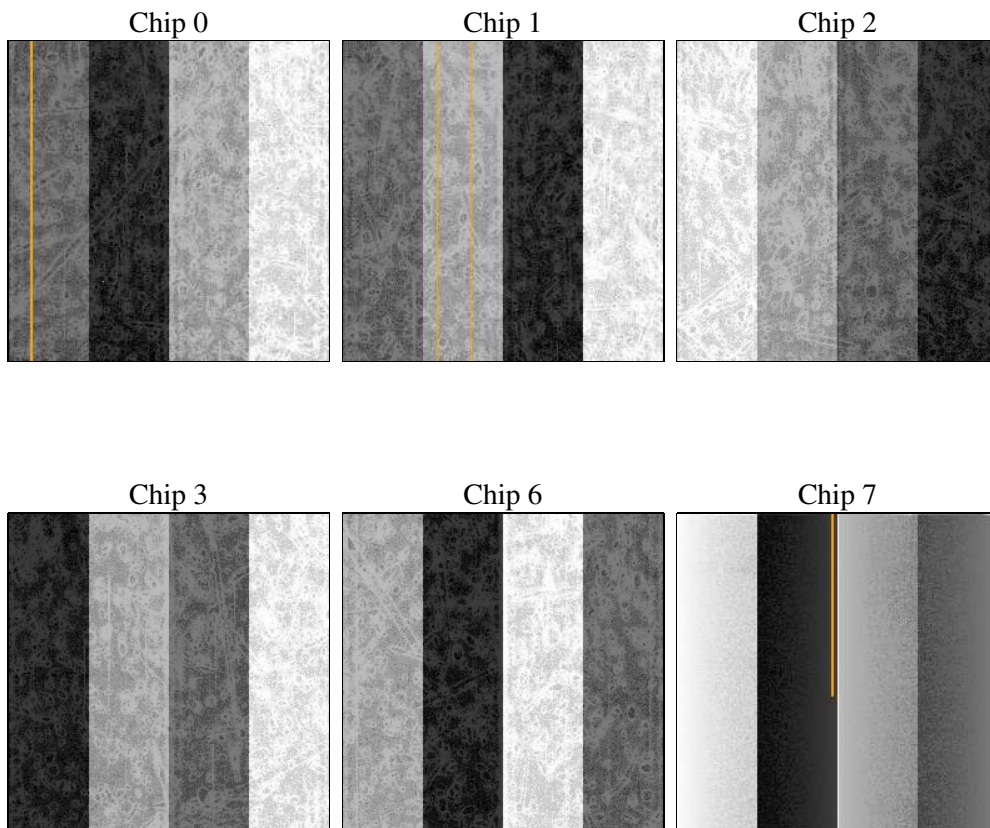
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	20000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	19951.958925366	Sum of GTIs [s]
caldsver	4.9.2	 	ontime0	19955.199925661	Sum of GTIs [s]
date	2020-10-12T03:21:35	Date and time of file creation	ontime1	19955.199925661	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	19955.199925661	Sum of GTIs [s]
			ontime3	19951.958925366	Sum of GTIs [s]
			ontime6	19955.199925661	Sum of GTIs [s]
			ontime7	19955.199925661	Sum of GTIs [s]
			l1events	998605	Number of level 1 events

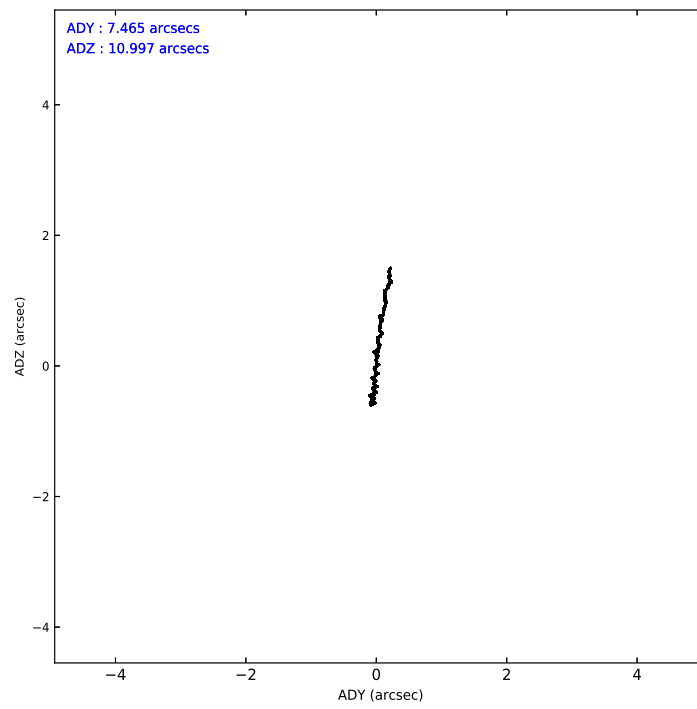
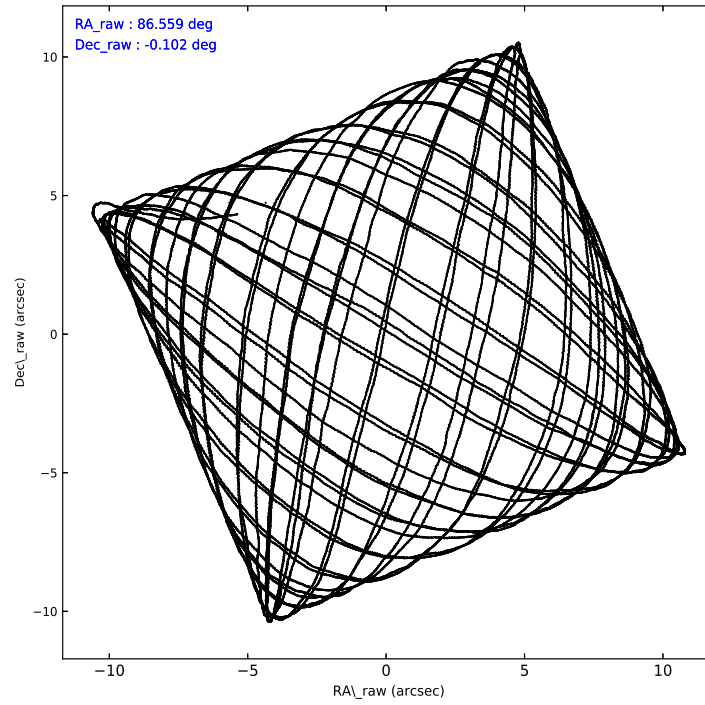
2.1.4 Events

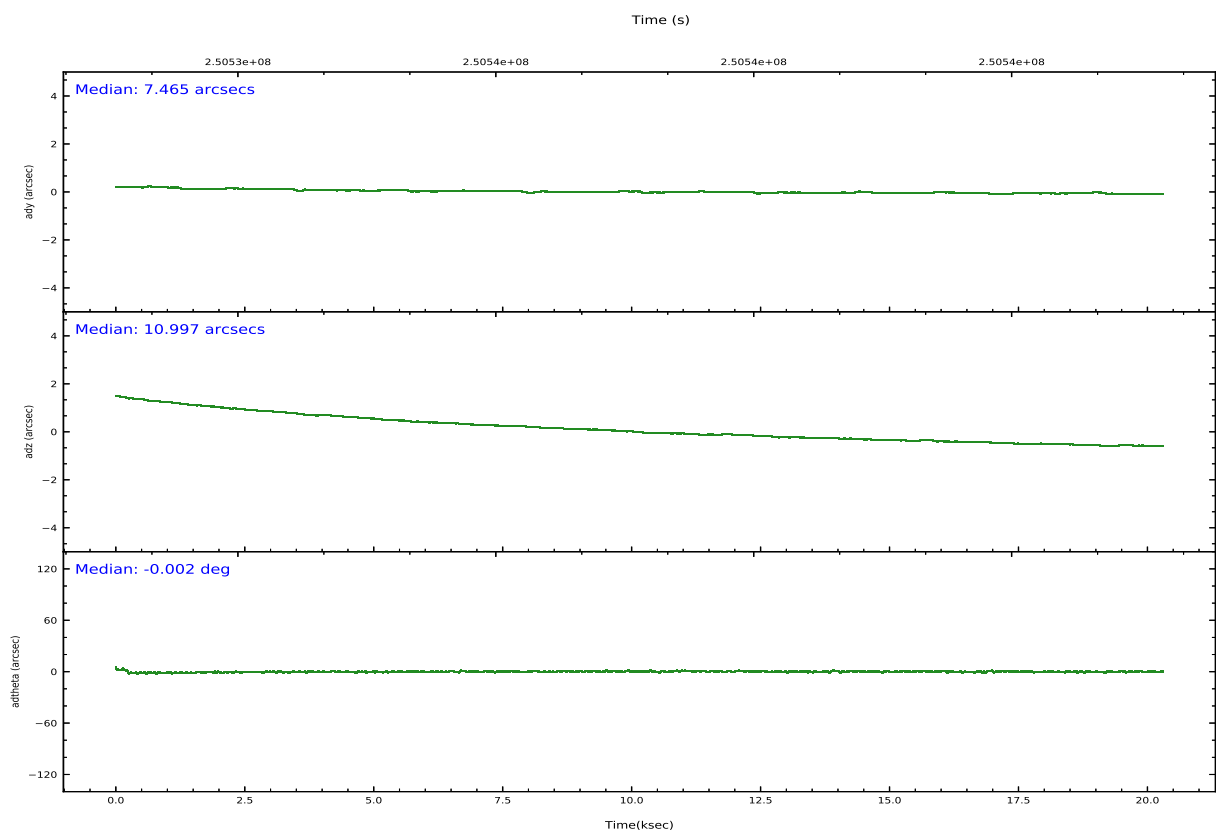
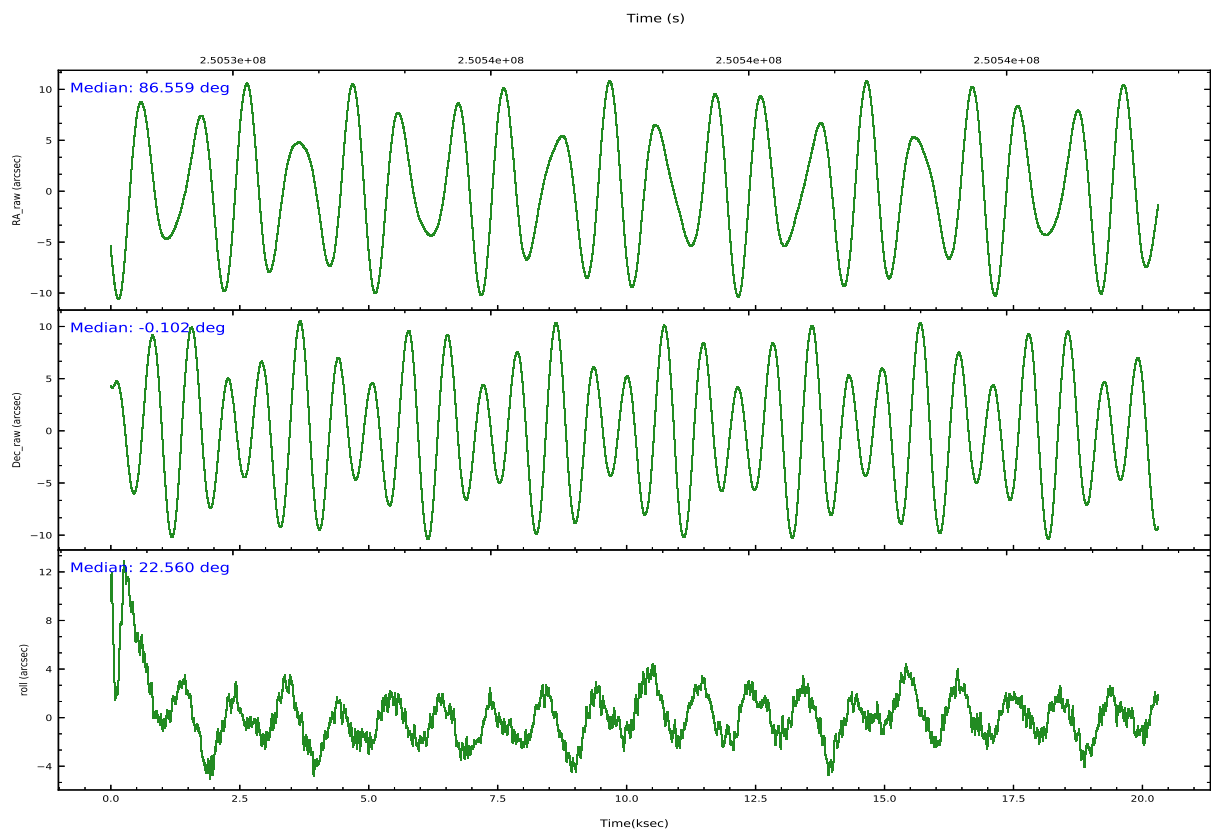
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	147813	147997	162414	156705	164860	218816	grade 0 events	8361	8096	8964	8292	8296	7606
rejected events	128402	127627	142830	137722	144678	129177		5%	5%	5%	5%	5%	3%
rejected %	86%	86%	87%	87%	87%	59%	grade 1 events	103	90	104	114	85	222
								0%	0%	0%	0%	0%	0%
							grade 2 events	4106	4543	3898	3670	4195	17965
								2%	3%	2%	2%	2%	8%
							grade 3 events	1955	1869	1757	1829	1894	7832
								1%	1%	1%	1%	1%	3%
							grade 4 events	1682	1966	1856	1792	1806	7585
								1%	1%	1%	1%	1%	3%
							grade 5 events	6178	7005	6069	7256	7781	20697
								4%	4%	3%	4%	4%	9%
							grade 6 events	3313	3897	3119	3410	3994	48678
								2%	2%	1%	2%	2%	22%
							grade 7 events	122115	120531	136647	130342	136809	108231
								82%	81%	84%	83%	82%	49%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-012367	ACIS-012367	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	86.542660	86.558453793125	Subarray requested	NONE	NONE
[deg] Pointing Dec	-0.123236	-0.10527393656427	Alternating exposures requested	N	N
[deg] Pointing Roll	22.356179	22.560070712791	[s] Primary exposure time	0.000000	3.2
[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)	250527938.184000	250526915.22644			
Observation start date	2005-12-09T15:04:34	2005-12-09T14:48:35			
[s] Observation end time (MET)	250547938.184000	250548731.83995			
Observation end date	2005-12-09T20:37:54	2005-12-09T20:52:11			
Read mode	TIMED	TIMED			

2.3 Aspect



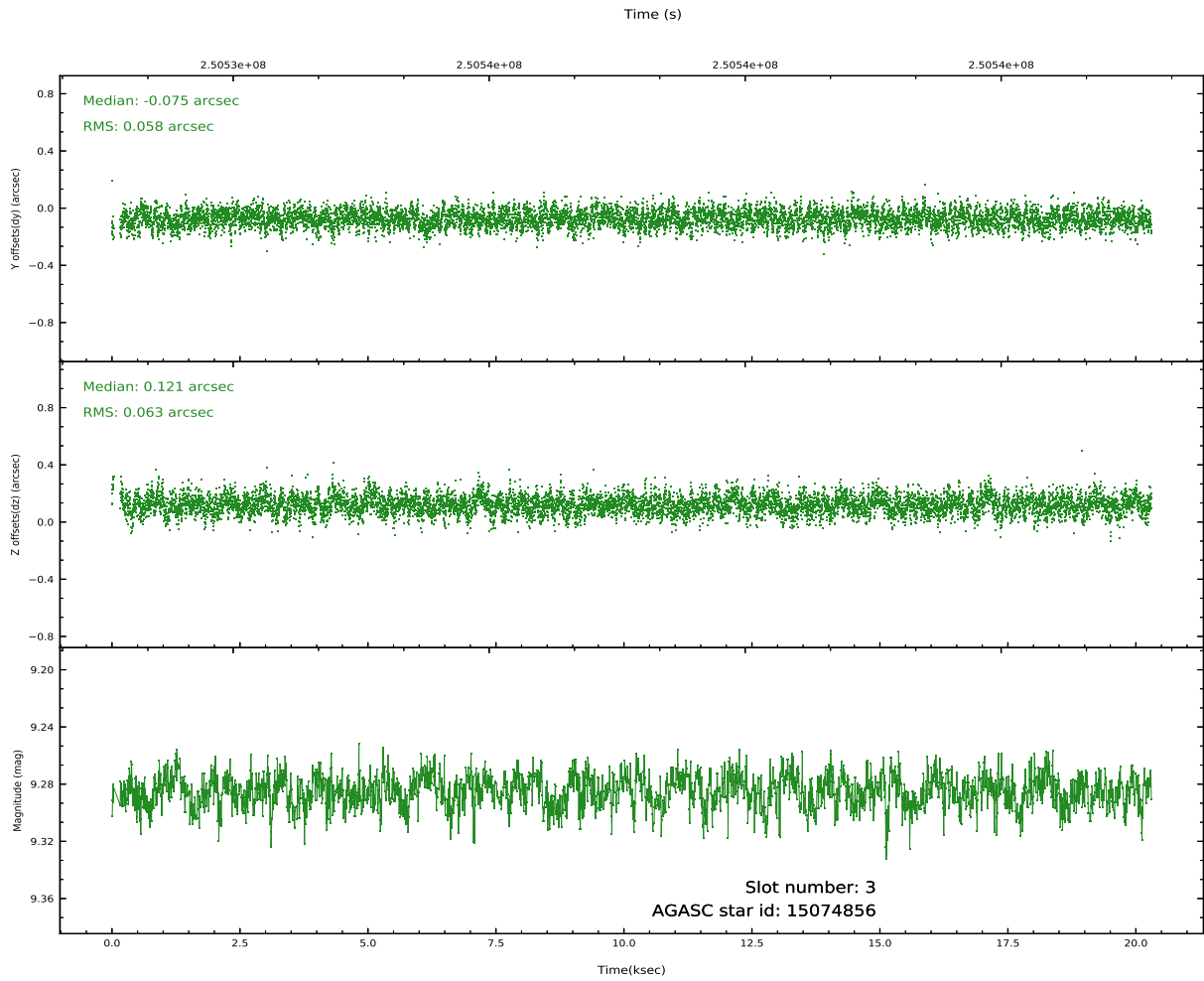
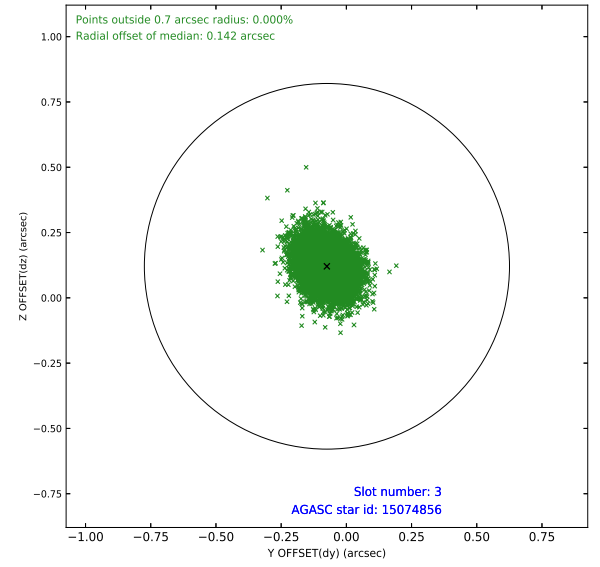
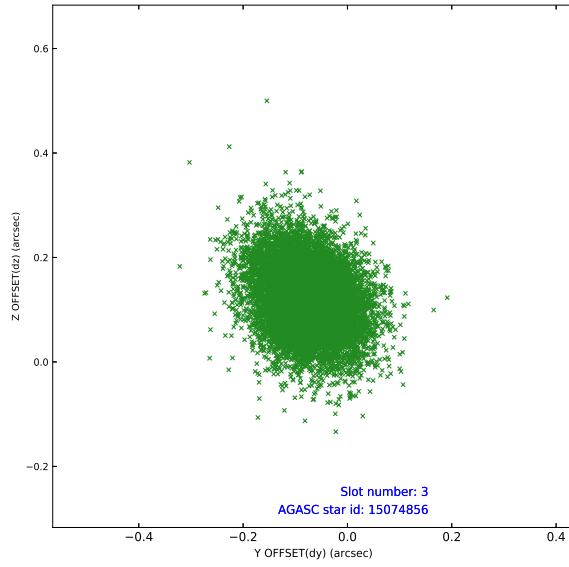


Slot Statistics

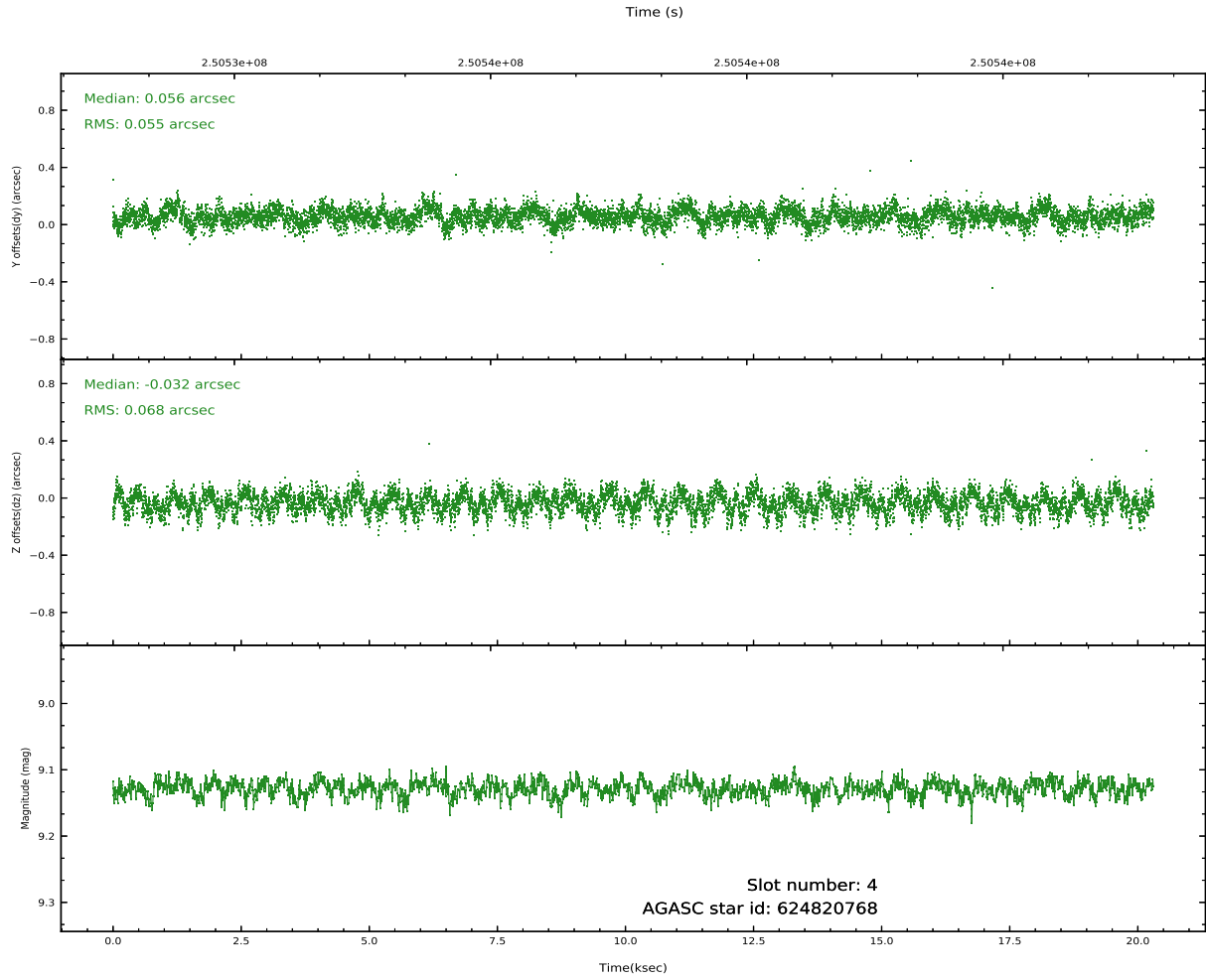
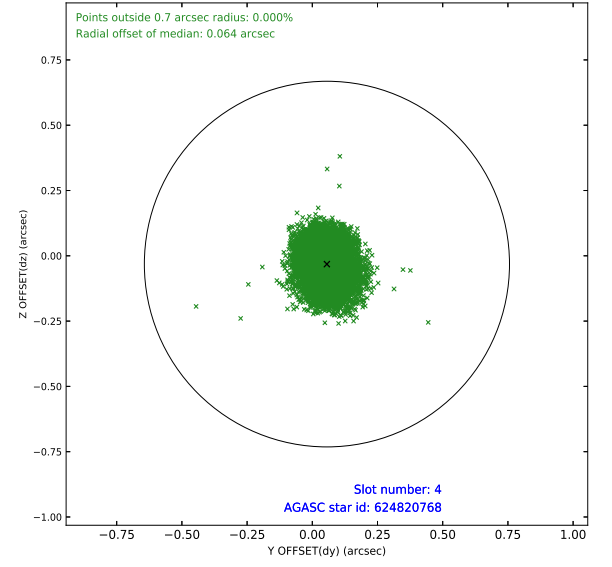
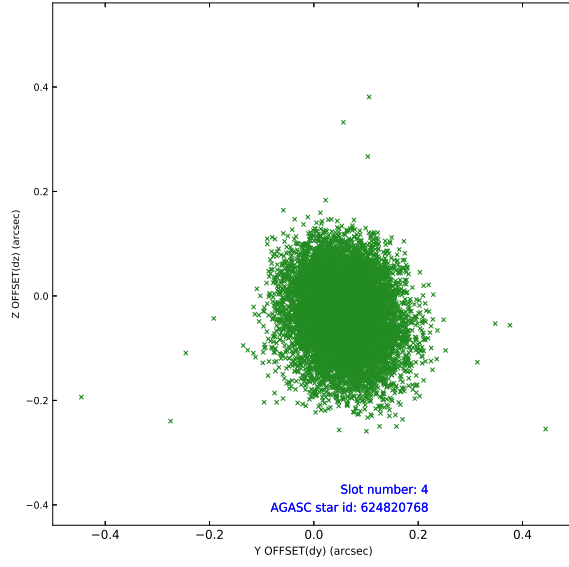
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.25	4952	1.000	-0.022	-0.078	0.031	0.047	0.000000	0.000000	932.17	-834
1	FID		ACIS-I-4	7.18	4953	1.000	0.178	0.087	0.022	0.031	0.000000	0.000000	2152.51	1065
2	FID		ACIS-I-5	7.22	4952	1.000	-0.254	0.061	0.012	0.019	0.000000	0.000000	-1815.84	1063
3	GUIDE	used	15074856	9.28	9841	1.000	-0.075	0.121	0.090	0.147	85.760802	0.169633	-2202.40	2045
4	GUIDE	used	624820768	9.13	9895	1.000	0.056	-0.032	0.094	0.149	86.202480	-0.061953	-1048.69	670
5	OMITTED			0.00	0	0.000	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0
6	GUIDE	used	624954400	9.16	9902	1.000	0.059	-0.010	0.104	0.176	86.607838	-0.762568	-658.16	-2217
7	GUIDE	used	15212184	10.05	9890	1.000	-0.043	-0.082	0.121	0.194	86.645698	0.614228	1352.67	2314

2.4 Star Slots

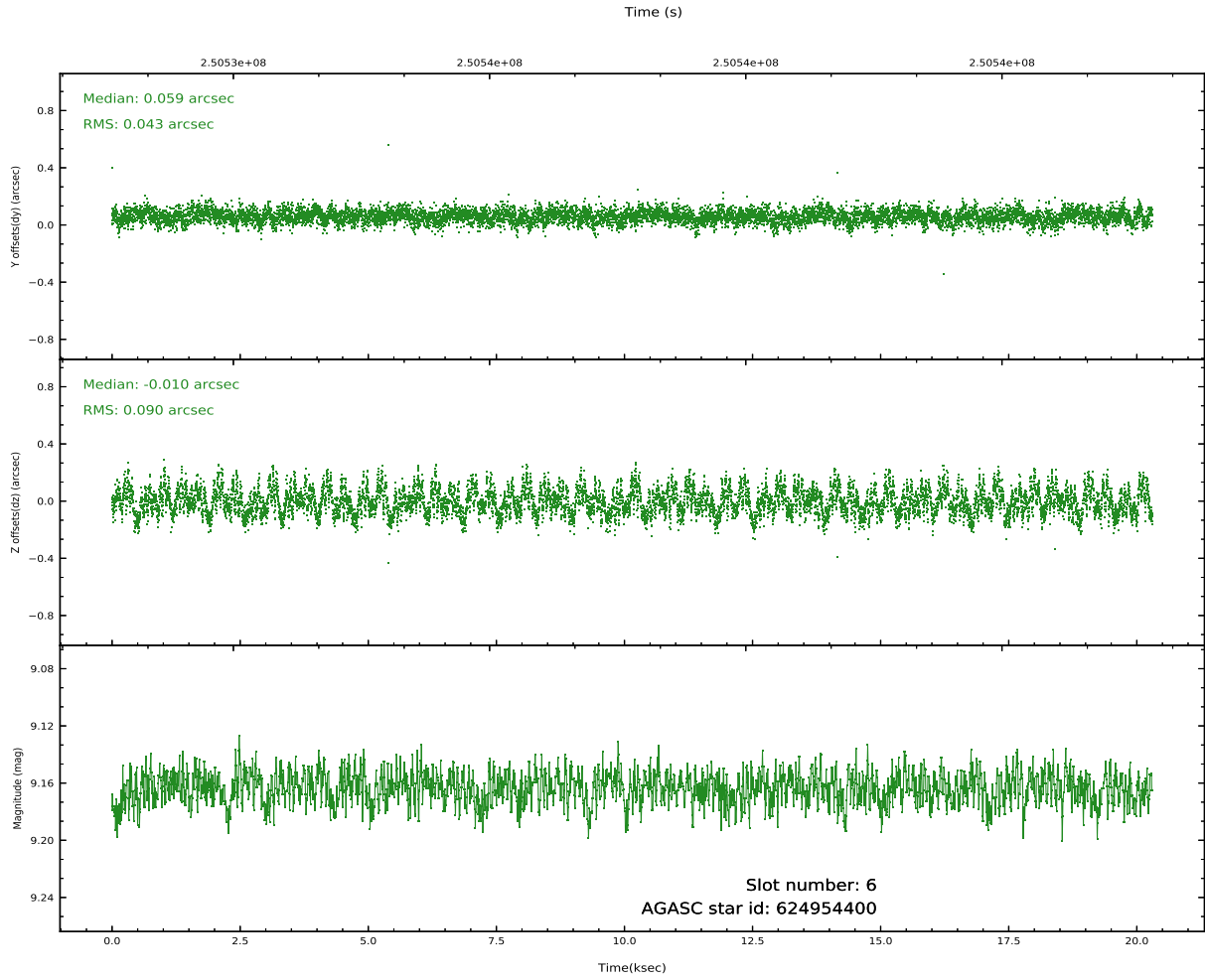
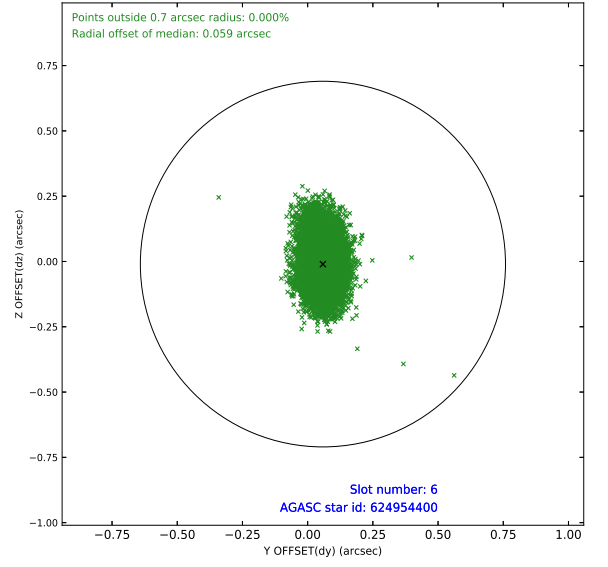
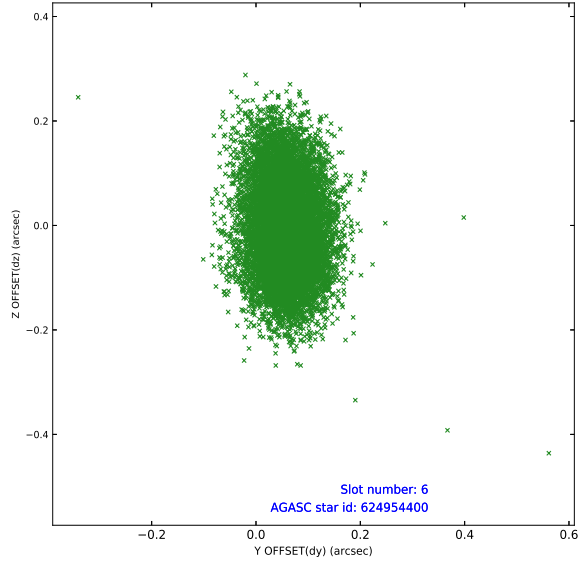
2.4.1 Slot 3



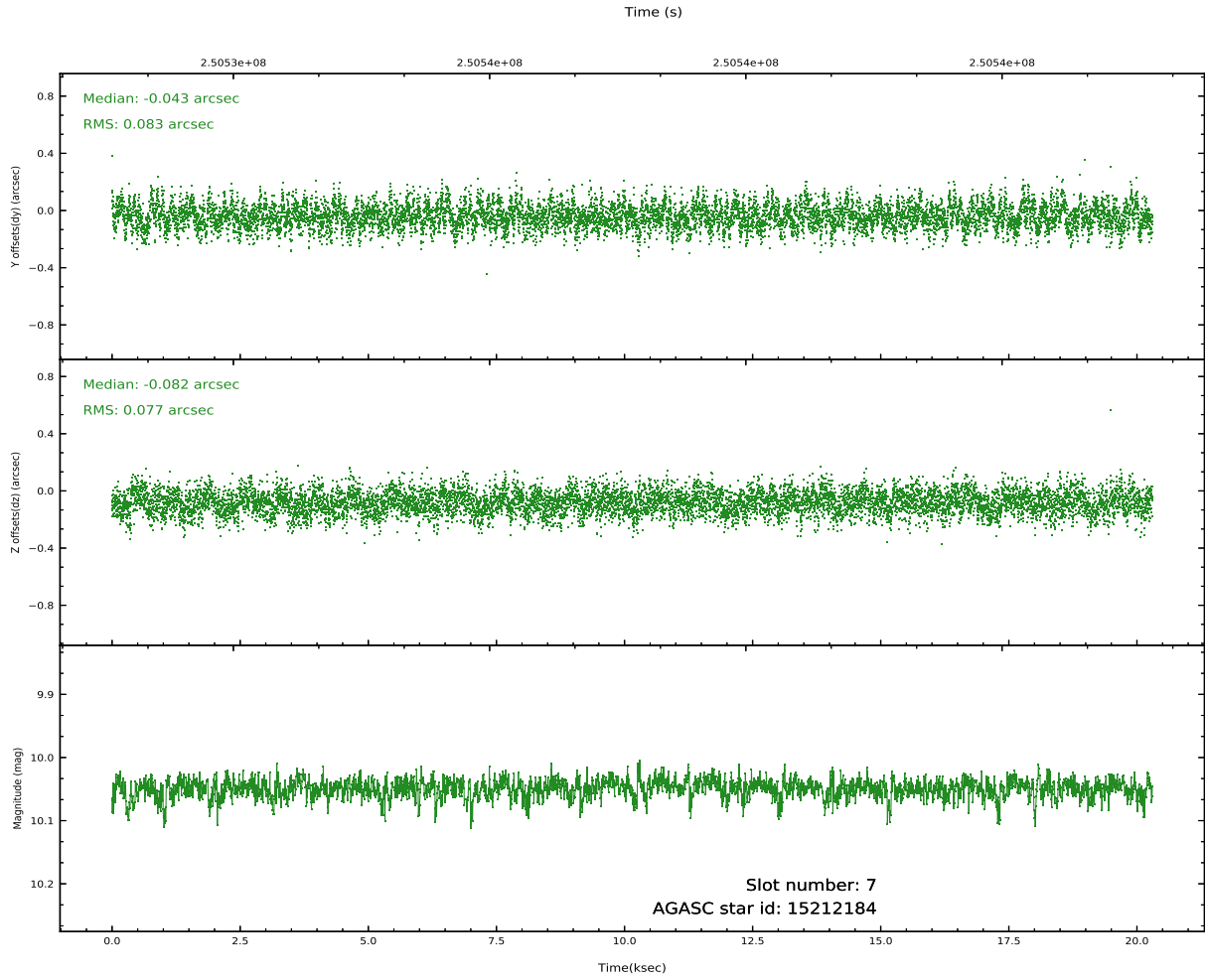
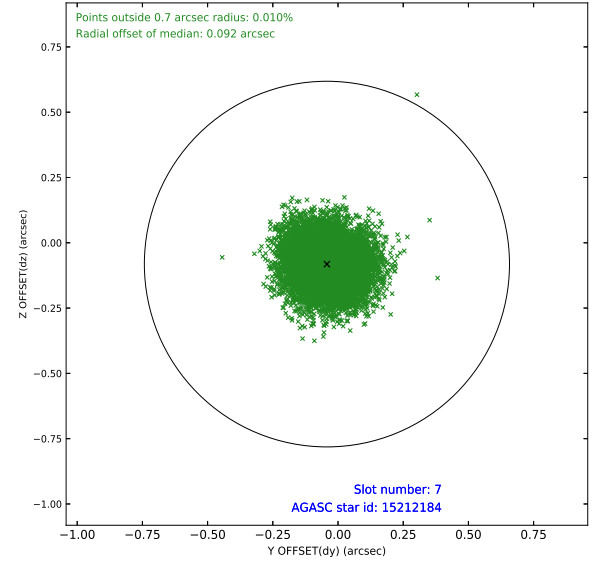
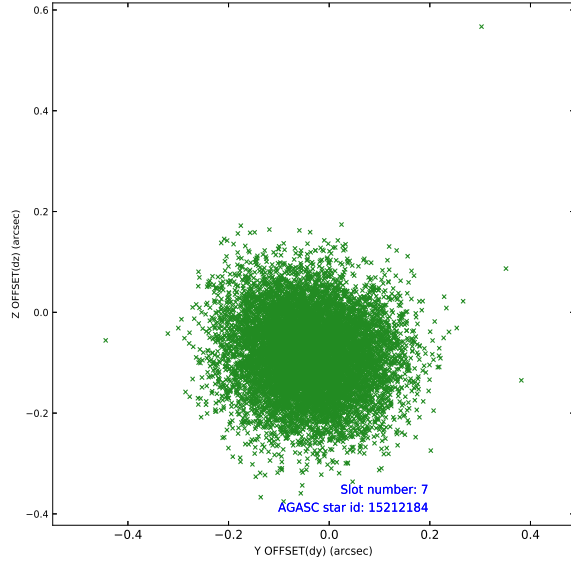
2.4.2 Slot 4



2.4.3 Slot 6

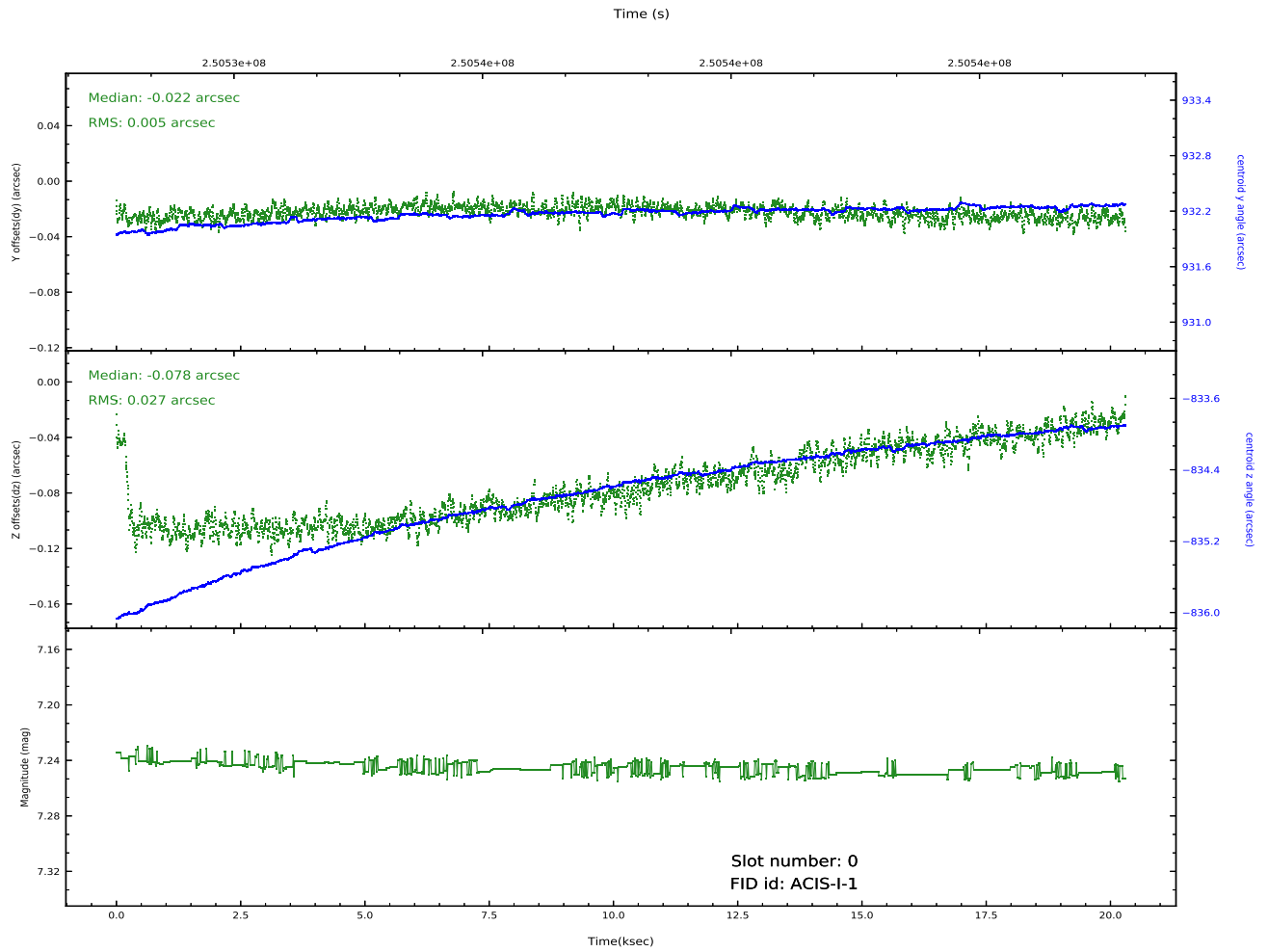
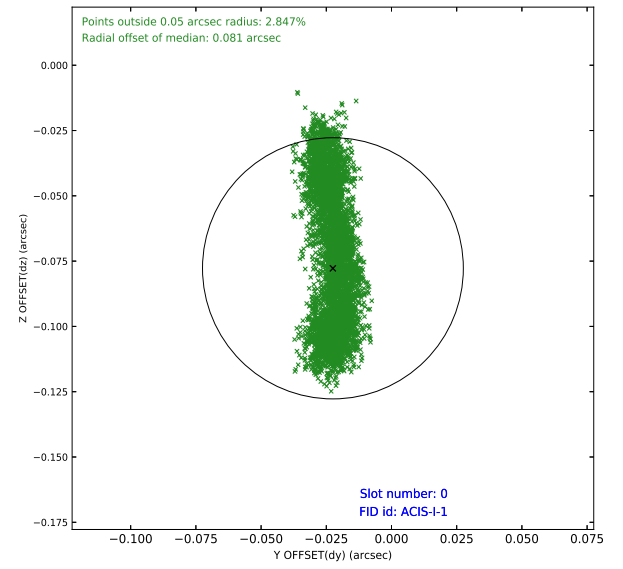
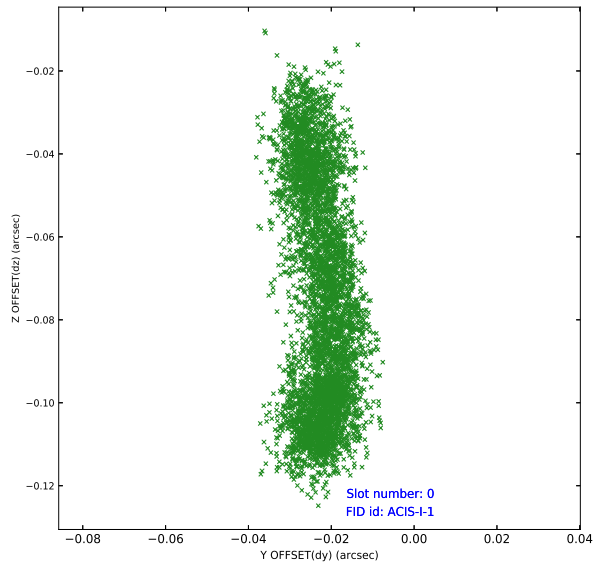


2.4.4 Slot 7

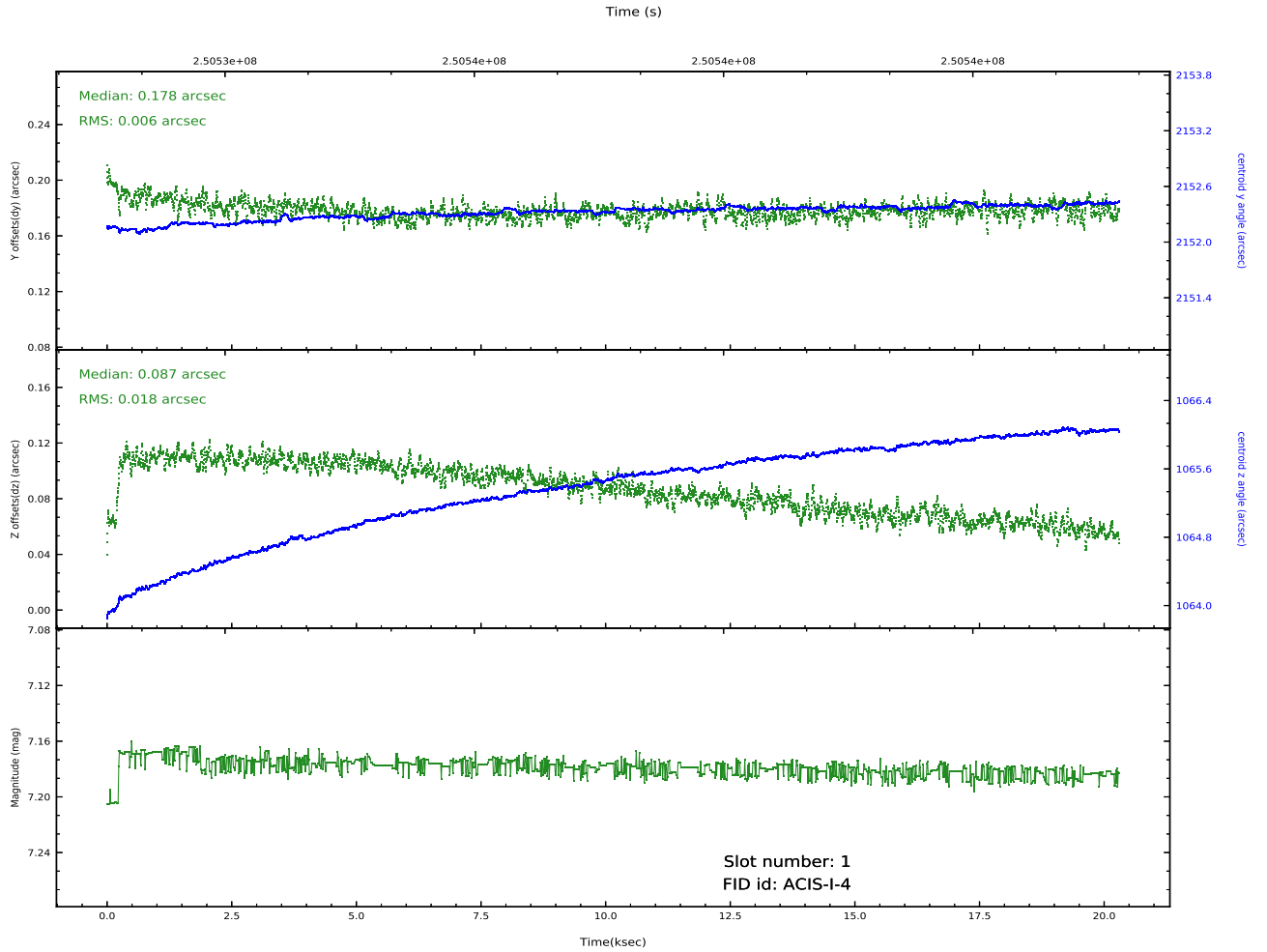
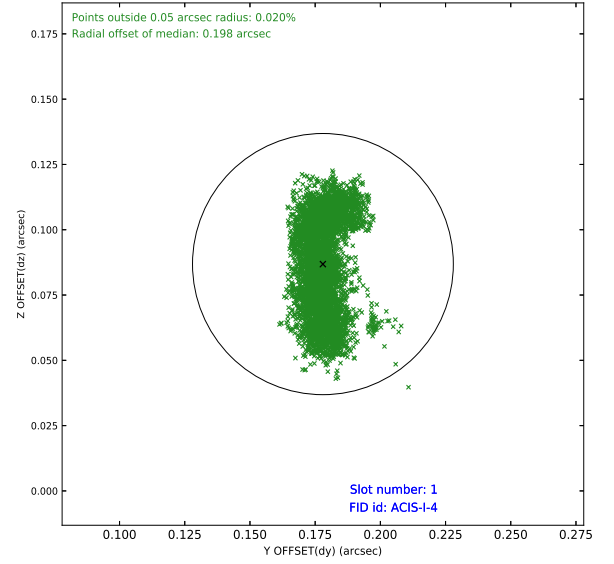
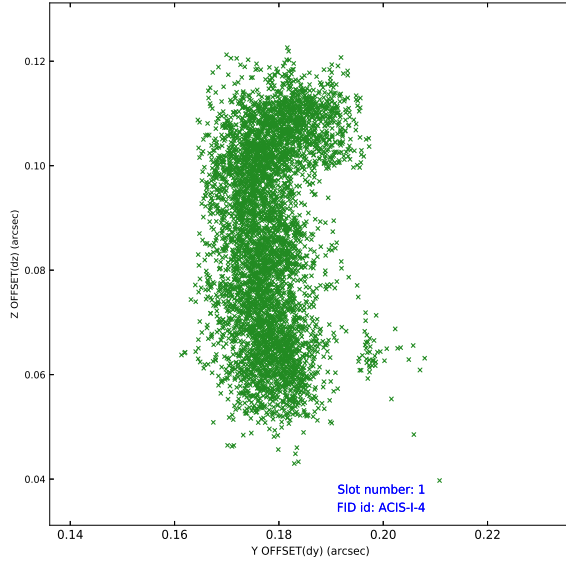


2.5 FID Slots

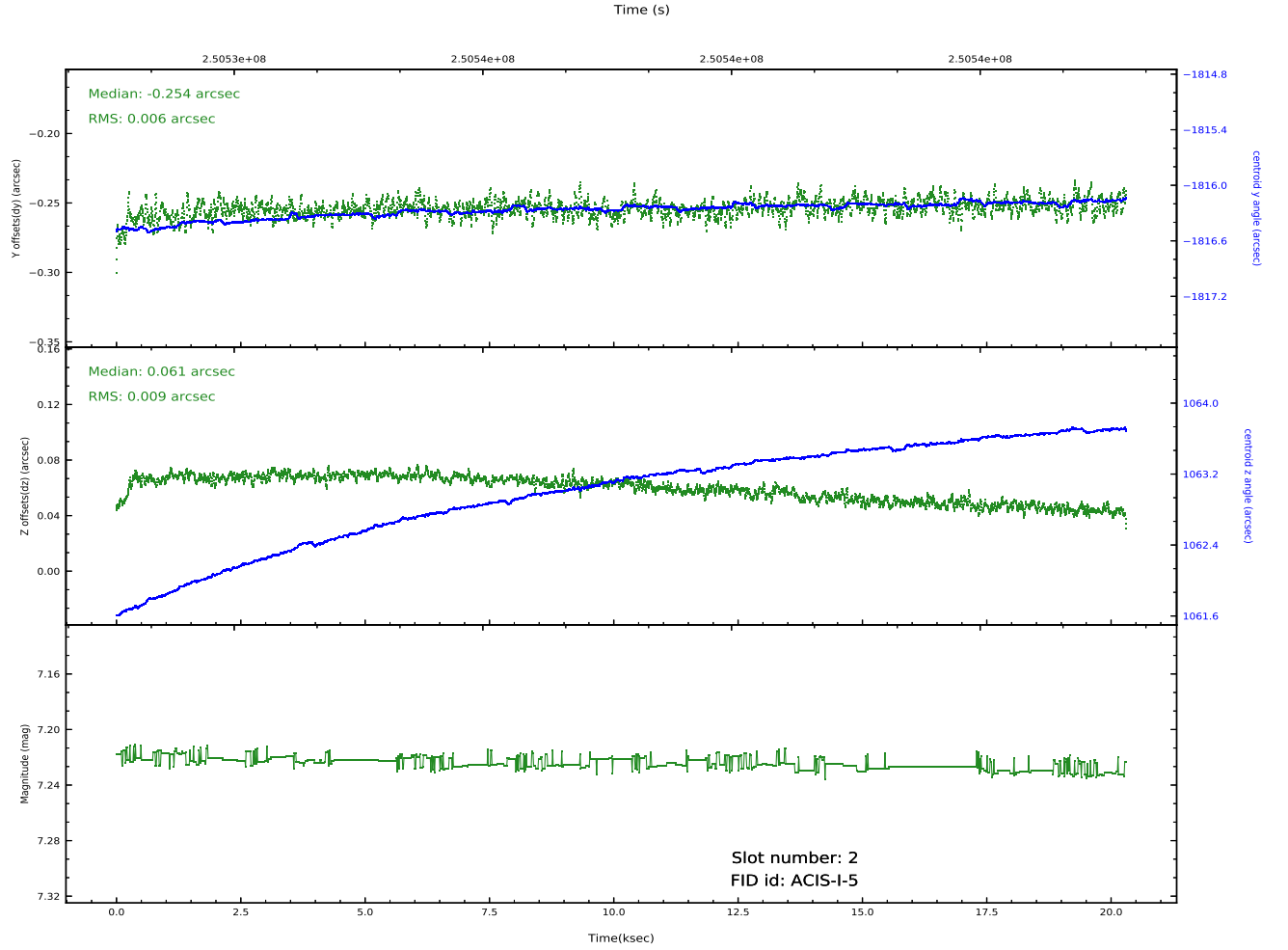
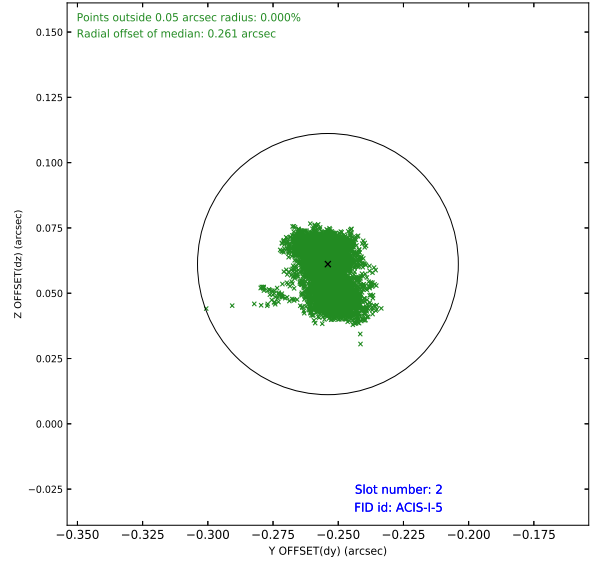
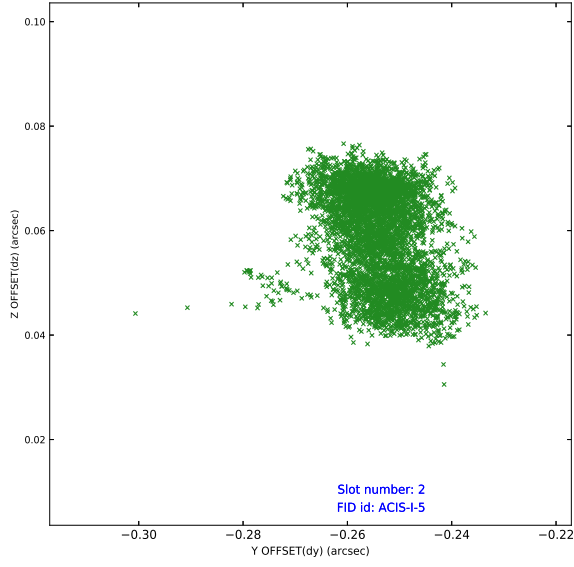
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	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	19.95195

A.2 Comments

The guide star in slot 5 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this guide star from the solution.

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Monitor constraint met.