

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 6167 - L2 Version 4
Chandra X-Ray Center

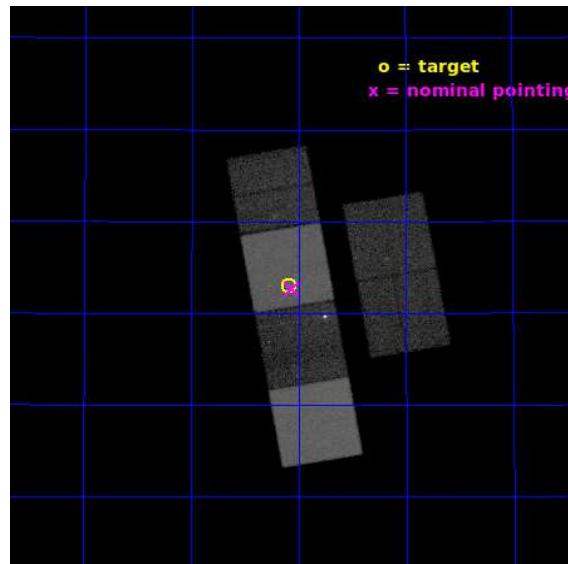
L2 Processing Date : Oct 5 2020

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1 Front

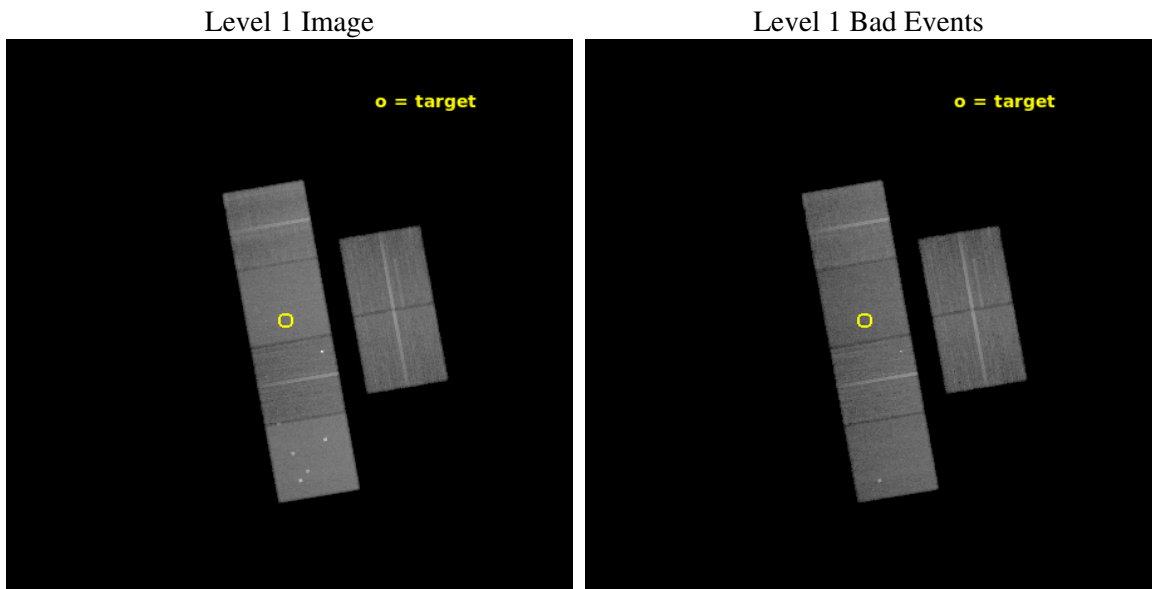
seq_num	300135	Sequence number
obs_id	6167	Observation id
title	Understanding the nature of supersoft X-ray sources	Proposal title
observer	Dr. Jochen Greiner	Principal investigator
object	M 31 North	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	11.52375	Observer's specified target RA [deg]
dec_targ	41.717778	Observer's specified target Dec [deg]
ra_nom	11.5155429557	Nominal RA [deg]
dec_nom	41.71159311756	Nominal Dec [deg]
roll_nom	260.0215604204	Nominal Roll [deg]
revision	4	Processing version of data
ontime	24534.399908602	Sum of GTIs [s]
livetime	24223.730564117	Livetime [s]
ontime2	24534.399908602	Sum of GTIs [s]
ontime3	24534.399908602	Sum of GTIs [s]
ontime5	24534.399908602	Sum of GTIs [s]
ontime6	24534.399908602	Sum of GTIs [s]
ontime7	24534.399908602	Sum of GTIs [s]
ontime8	24534.399908602	Sum of GTIs [s]
l2events	320385	Number of level 2 events



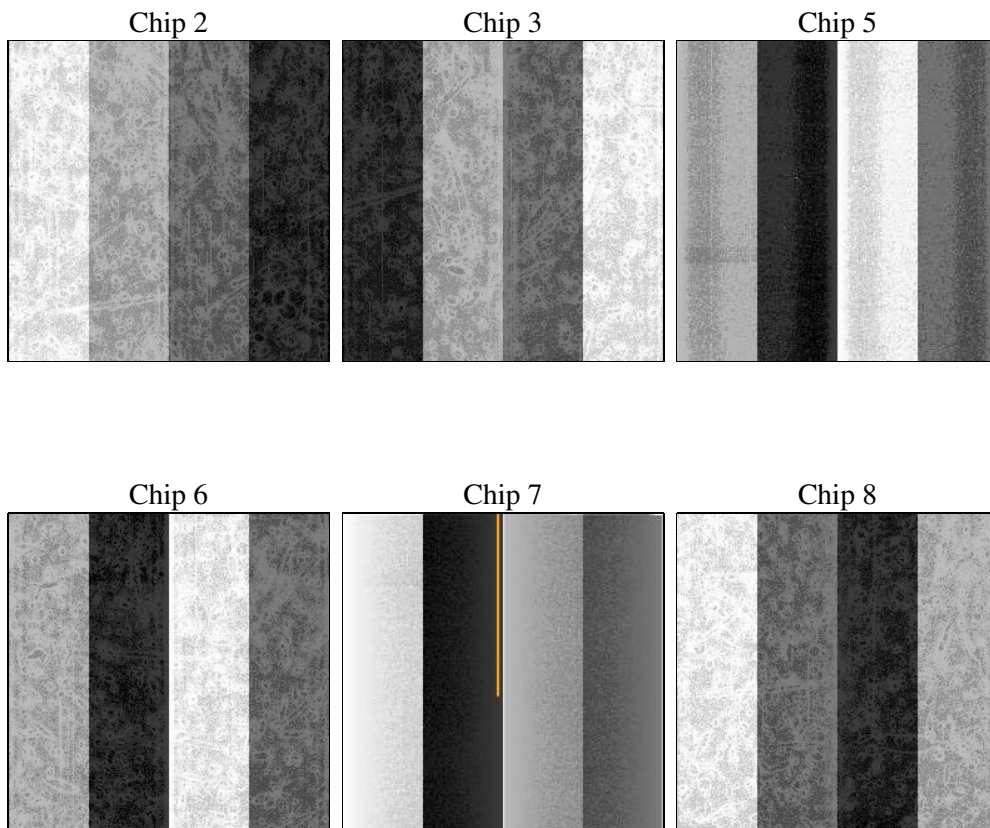
2 OBI

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	24534.399908602	Sum of GTIs [s]
caldsver	4.9.2	 	ontime2	24534.399908602	Sum of GTIs [s]
date	2020-10-05T07:42:50	Date and time of file creation	ontime3	24534.399908602	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	24534.399908602	Sum of GTIs [s]
			ontime6	24534.399908602	Sum of GTIs [s]
			ontime7	24534.399908602	Sum of GTIs [s]
			ontime8	24534.399908602	Sum of GTIs [s]
			l1events	1386010	Number of level 1 events

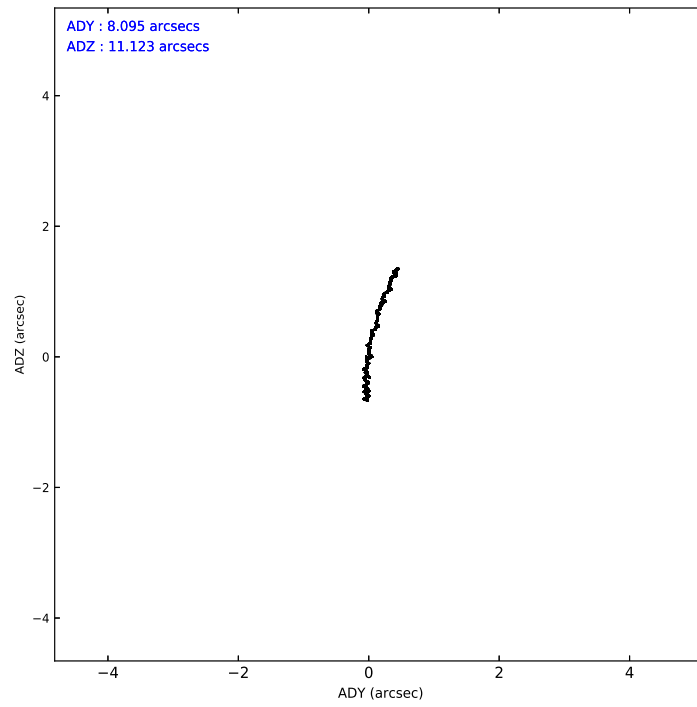
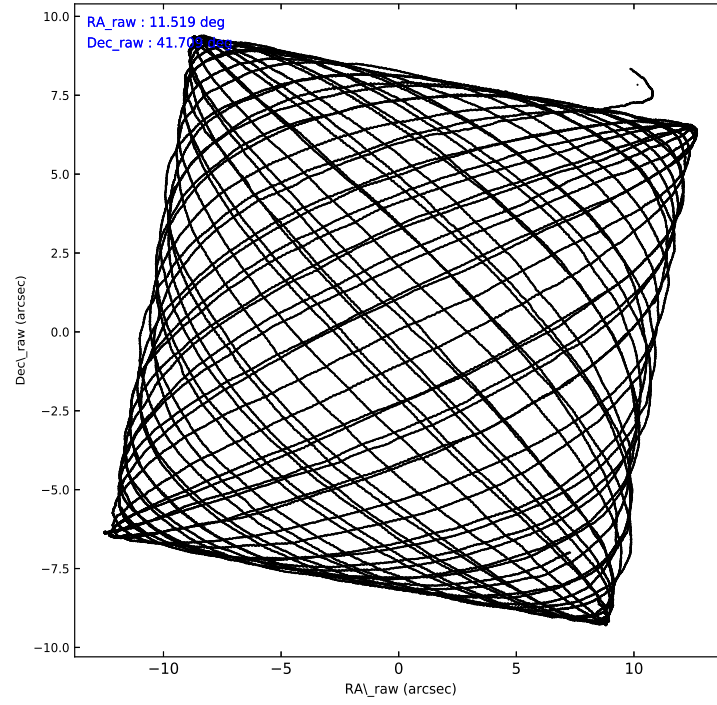
2.1.4 Events

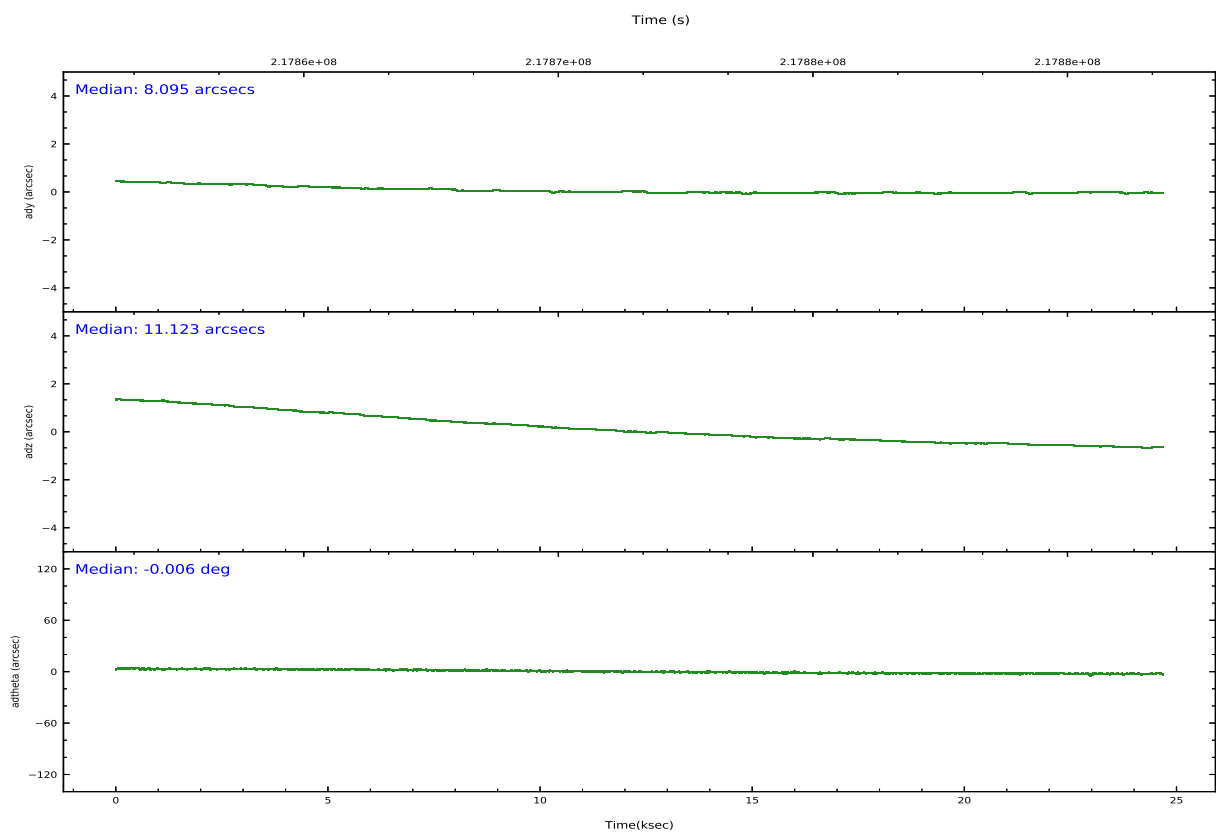
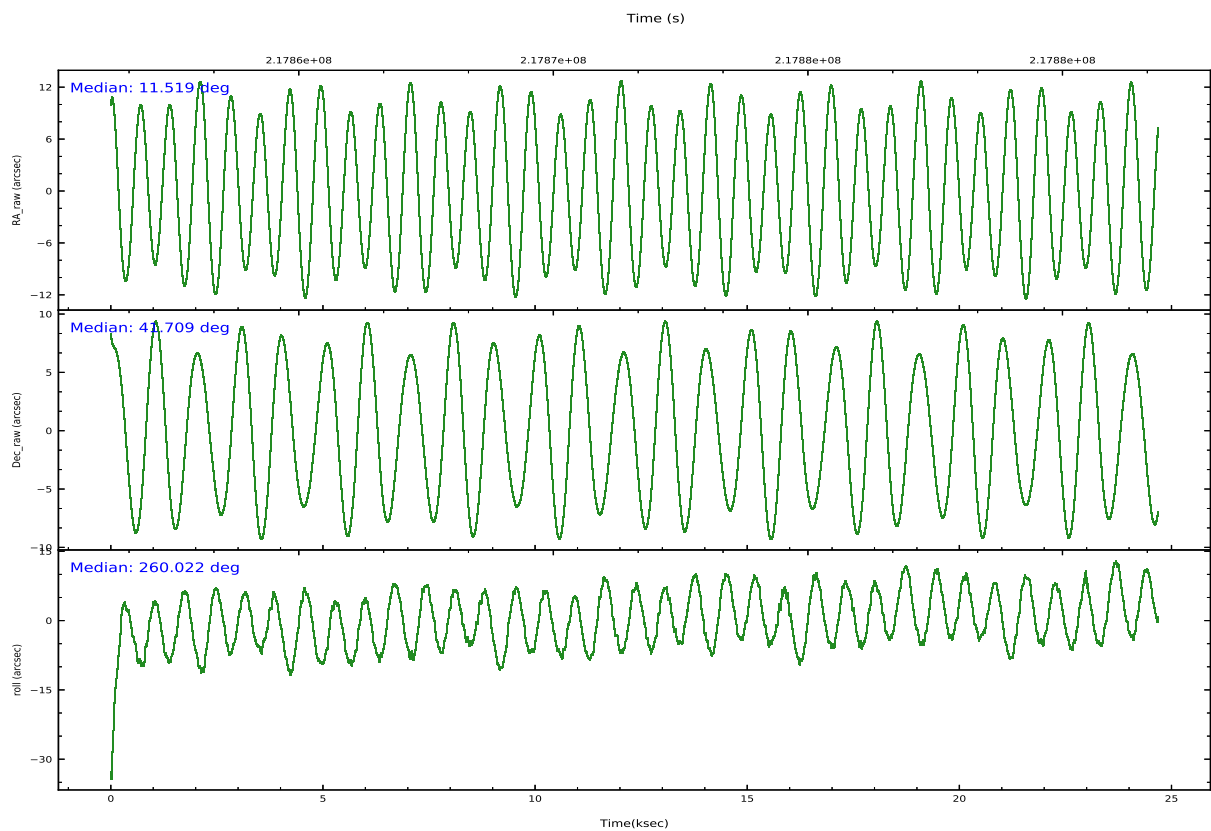
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	198358	187350	291805	207633	257382	243482	grade 0 events	10037	9937	17911	19588	9481	16129
rejected events	175710	165022	155180	170840	150475	192018		5%	5%	6%	9%	3%	6%
rejected %	88%	88%	53%	82%	58%	78%	grade 1 events	124	119	393	739	220	162
								0%	0%	0%	0%	0%	0%
							grade 2 events	4646	4194	39612	6556	21078	11668
								2%	2%	13%	3%	8%	4%
							grade 3 events	2132	2067	5254	2823	9469	5286
								1%	1%	1%	1%	3%	2%
							grade 4 events	2059	2156	5014	2722	9273	4962
								1%	1%	1%	1%	3%	2%
							grade 5 events	7543	8405	21450	9040	24692	11741
								3%	4%	7%	4%	9%	4%
							grade 6 events	3781	3979	68874	5116	57636	13460
								1%	2%	23%	2%	22%	5%
							grade 7 events	168036	156493	133297	161049	125533	180074
								84%	83%	45%	77%	48%	73%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-235678	ACIS-235678	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	11.506348	11.5155429557	Subarray requested	NONE	NONE
[deg] Pointing Dec	41.734153	41.71159311756	Alternating exposures requested	N	N
[deg] Pointing Roll	259.871585	260.0215604204	[s] Primary exposure time	0.000000	3.2
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	217859754.184000	217858609.324			
Observation start date	2004-11-26T12:34:50	2004-11-26T12:16:49			
[s] Observation end time (MET)	217884254.184000	217885393.6002			
Observation end date	2004-11-26T19:23:10	2004-11-26T19:43:13			
Read mode	TIMED	TIMED			

2.3 Aspect



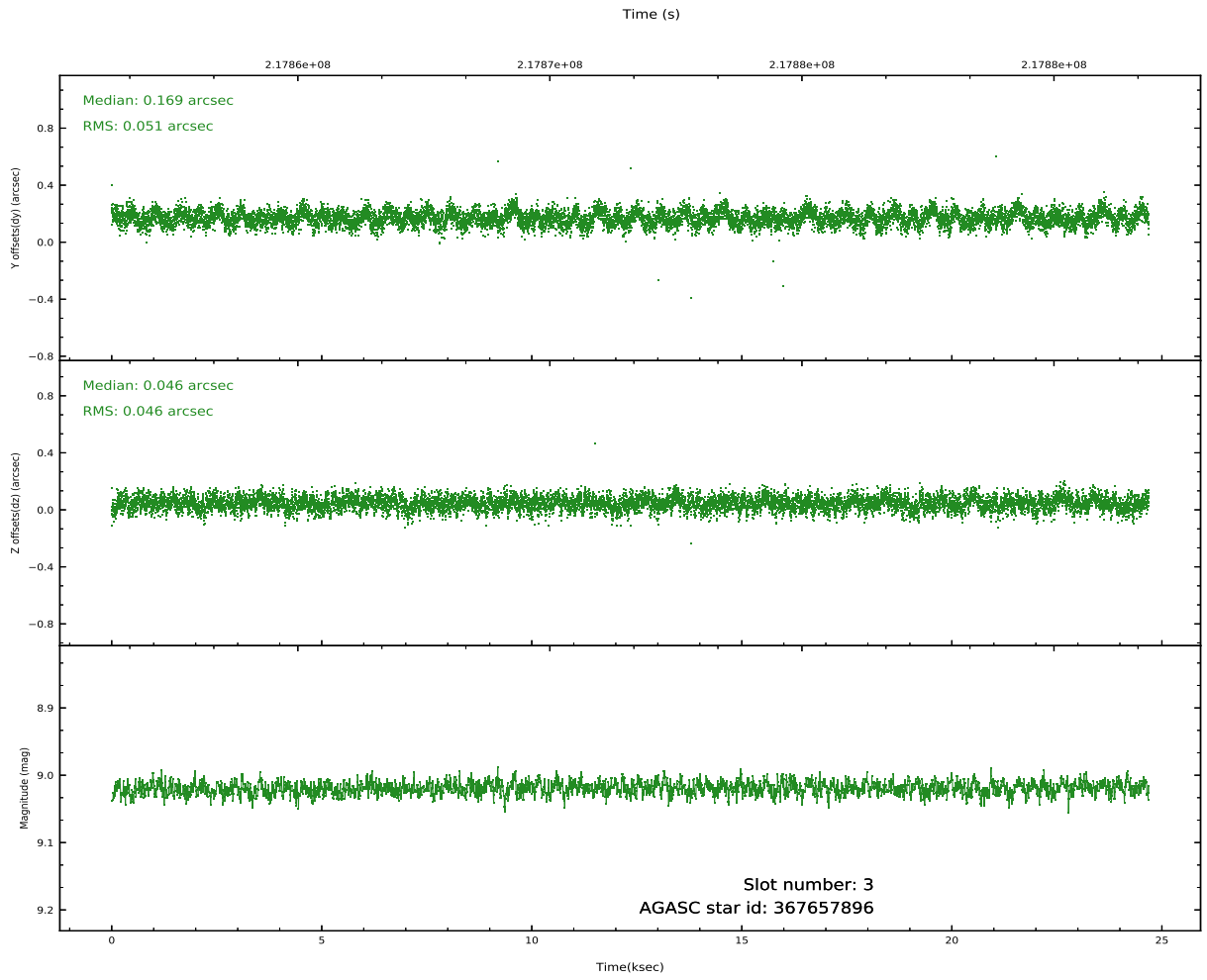
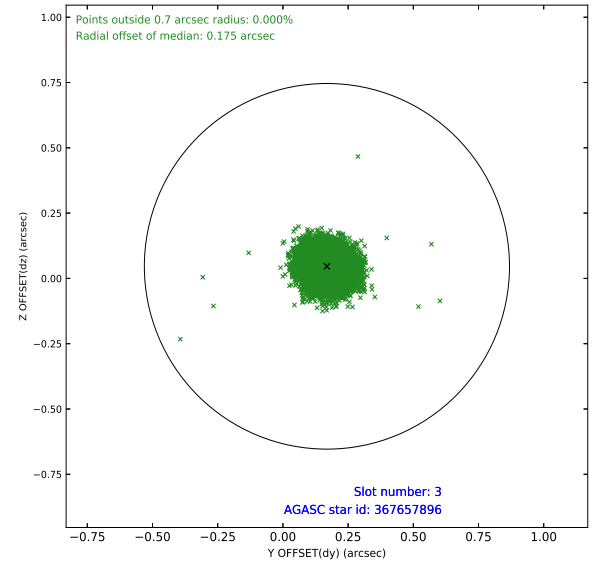
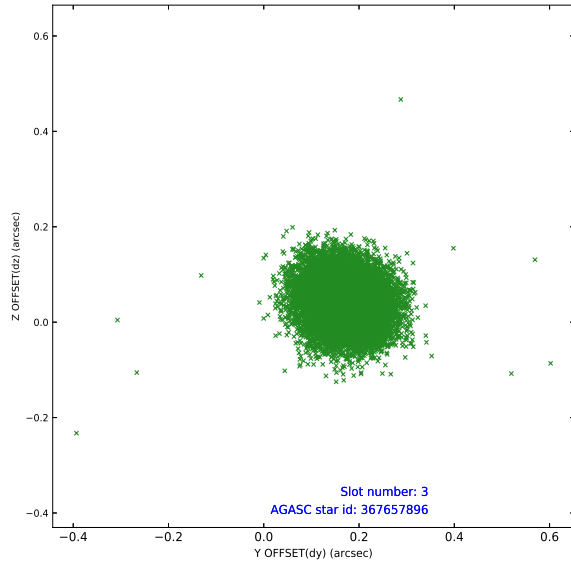


Slot Statistics

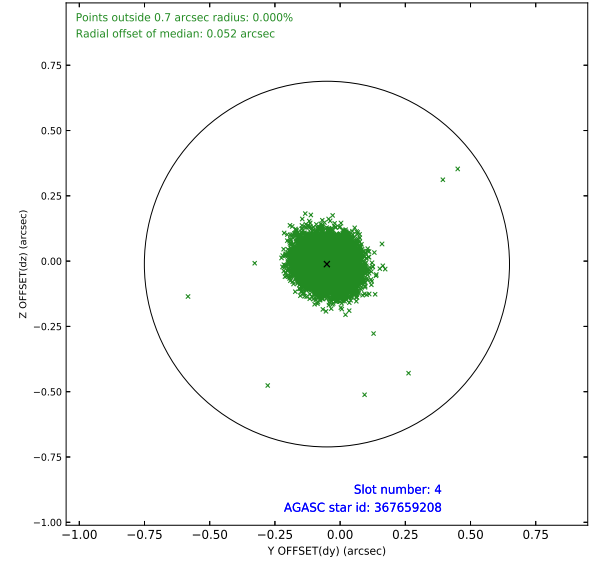
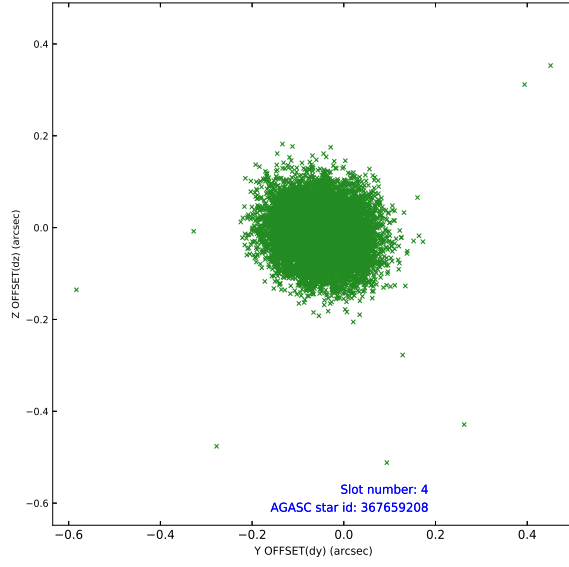
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-1	7.19	6021	1.000	0.070	-0.109	0.022	0.030	0.000000	0.000000	935.16	-1728
1	FID		ACIS-S-5	7.24	6021	1.000	-0.132	0.028	0.014	0.033	0.000000	0.000000	-1813.97	169
2	FID		ACIS-S-6	7.35	6020	1.000	0.039	0.090	0.015	0.034	0.000000	0.000000	400.55	813
3	GUIDE	used	367657896	9.02	12035	1.000	0.169	0.046	0.073	0.116	11.197765	41.313576	1636.14	-555
4	GUIDE	used	367659208	9.29	12035	1.000	-0.051	-0.011	0.079	0.129	11.848231	42.124331	-1545.02	651
5	GUIDE	used	367663272	9.28	12041	1.000	-0.086	-0.075	0.095	0.161	10.656279	41.699429	514.16	-2229
6	GUIDE	used	367670520	9.24	12040	1.000	-0.053	-0.012	0.087	0.141	11.265516	42.371946	-2148.22	-1034
7	GUIDE	used	367145056	7.41	12040	1.000	0.020	0.048	0.071	0.106	12.259409	41.132018	1766.12	2390

2.4 Star Slots

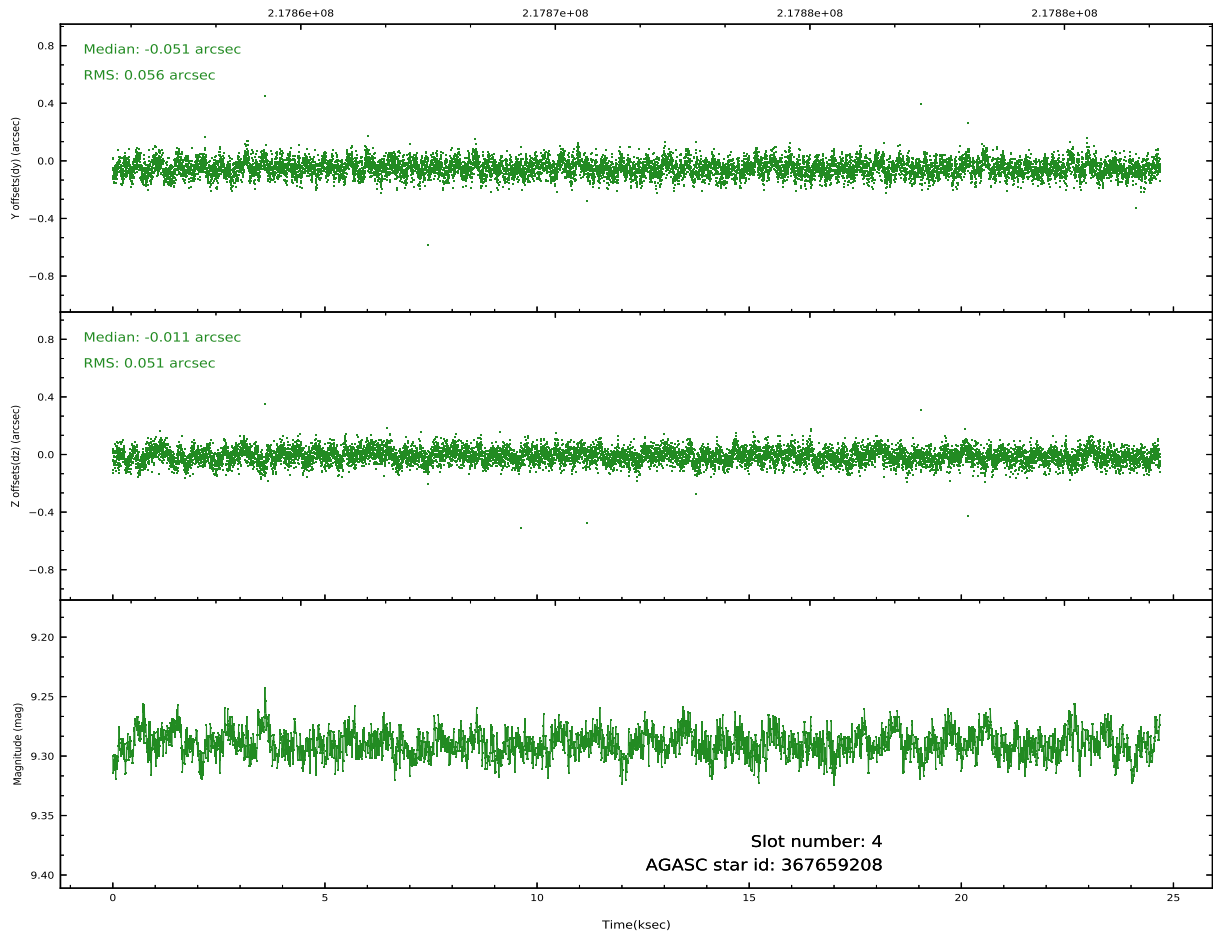
2.4.1 Slot 3



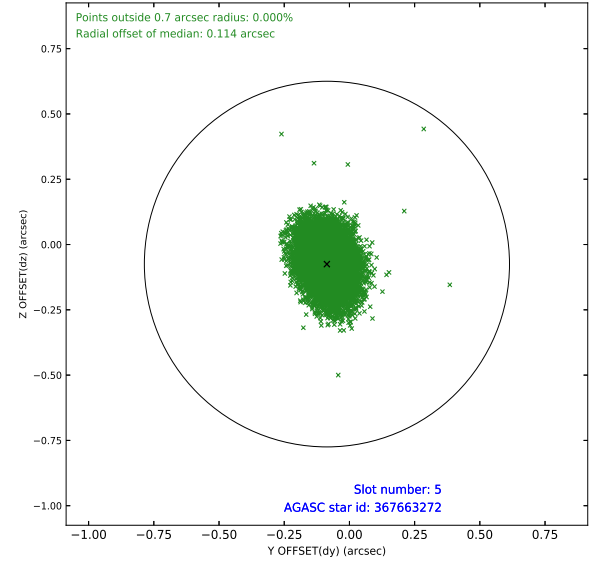
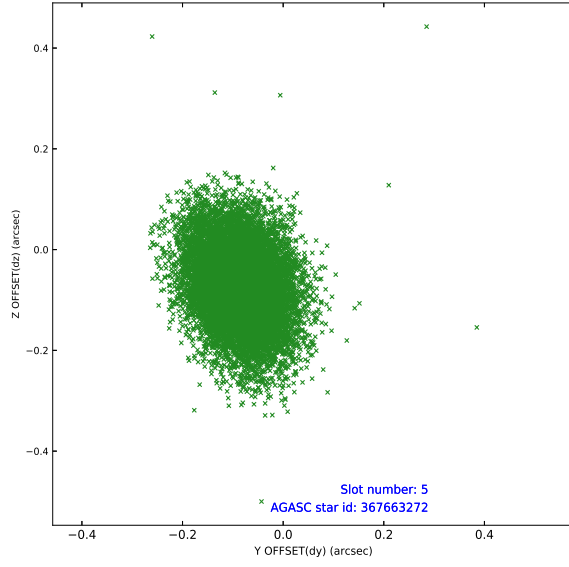
2.4.2 Slot 4



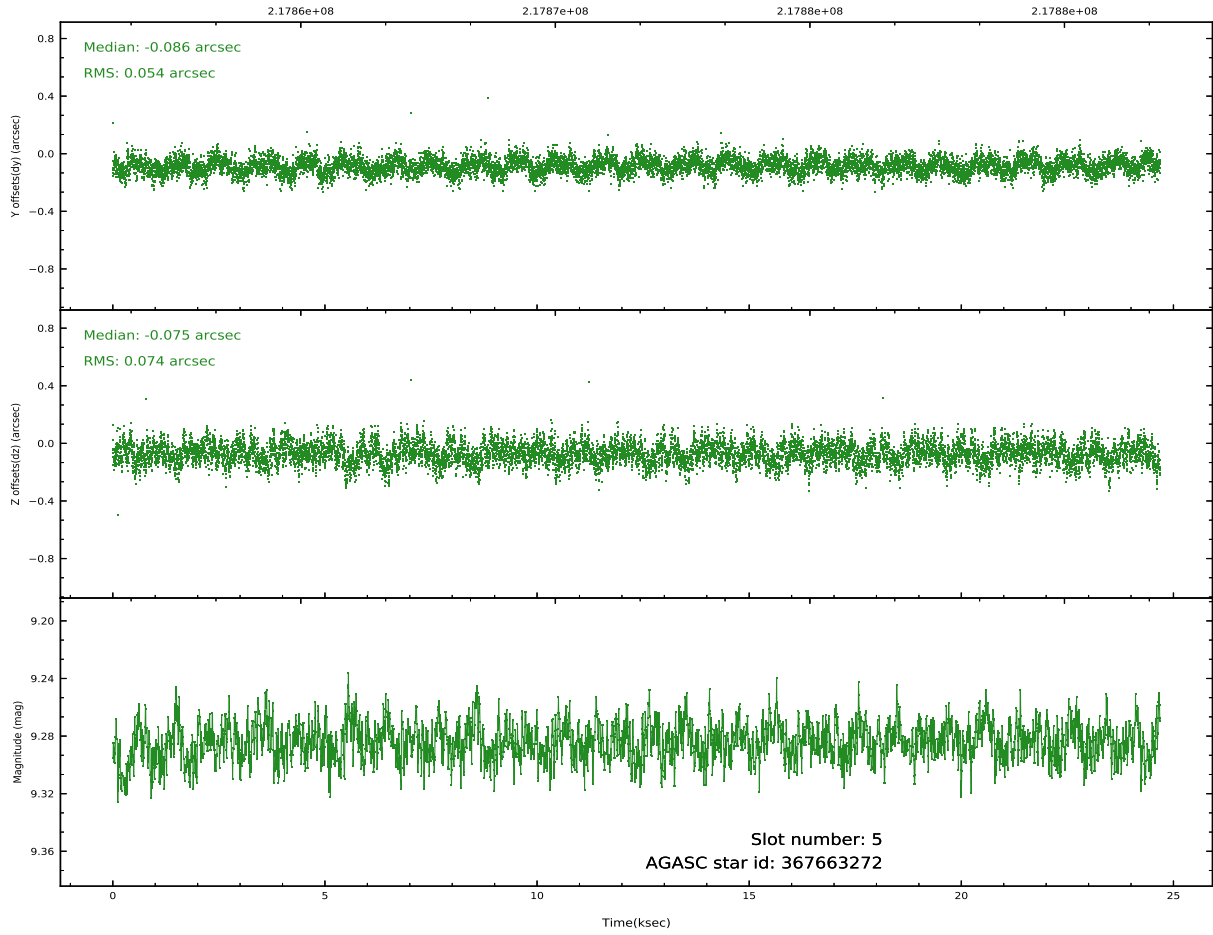
Time (s)



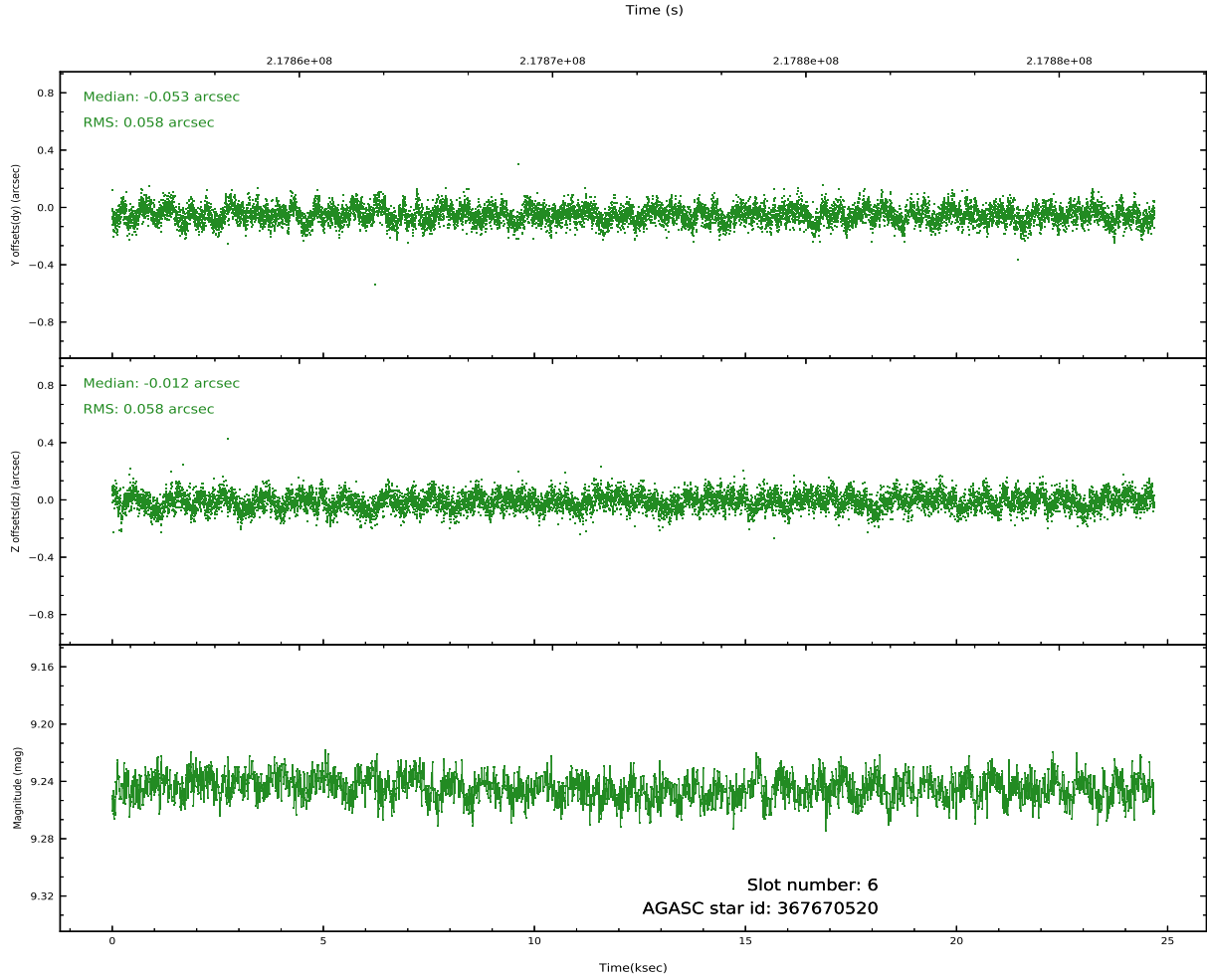
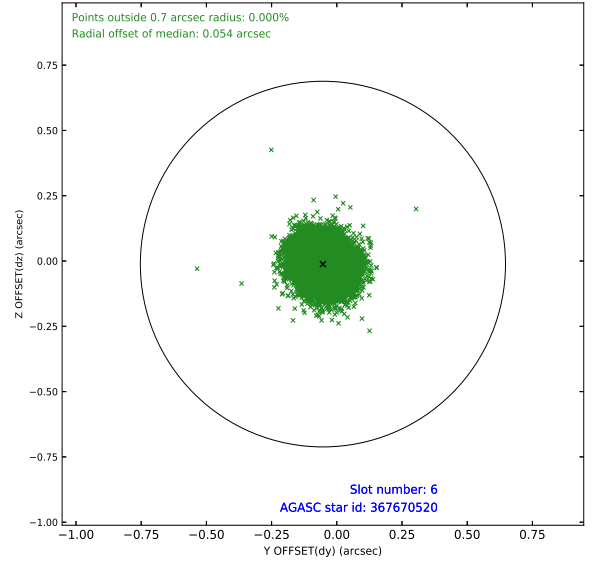
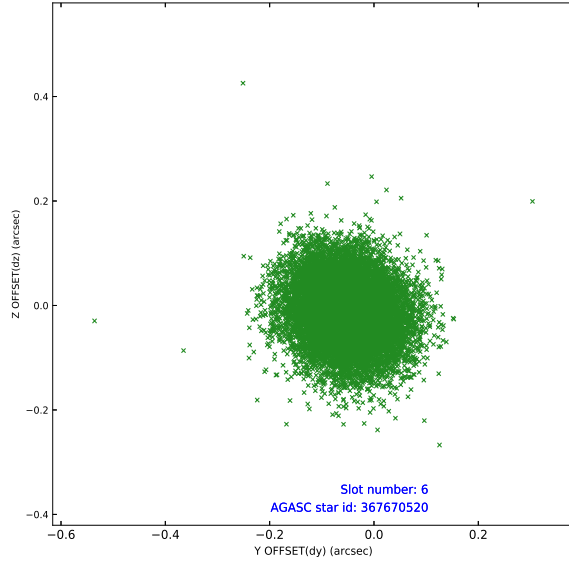
2.4.3 Slot 5



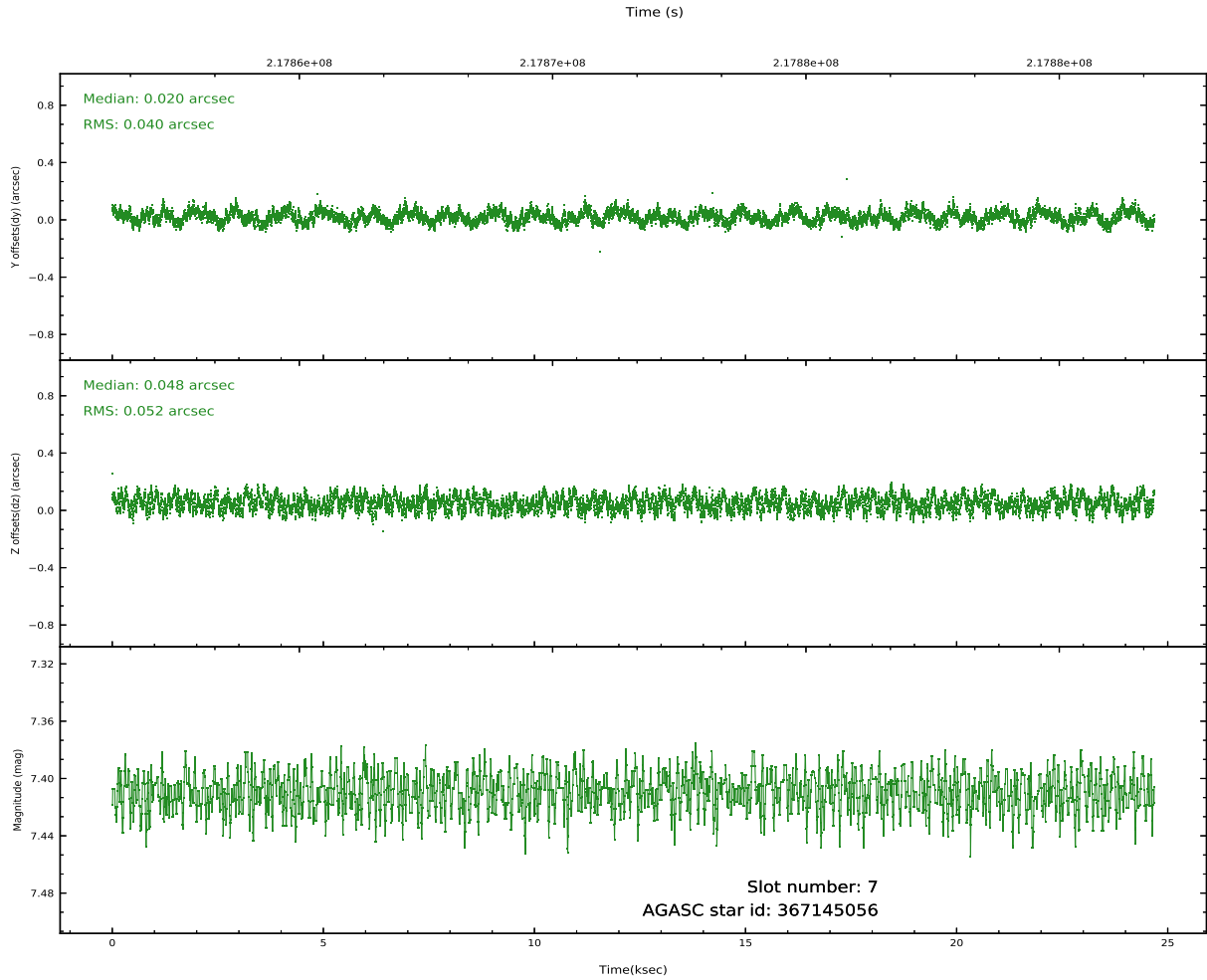
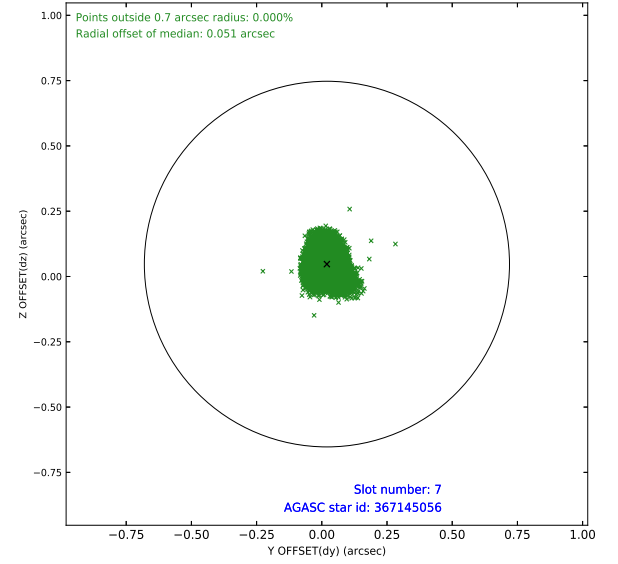
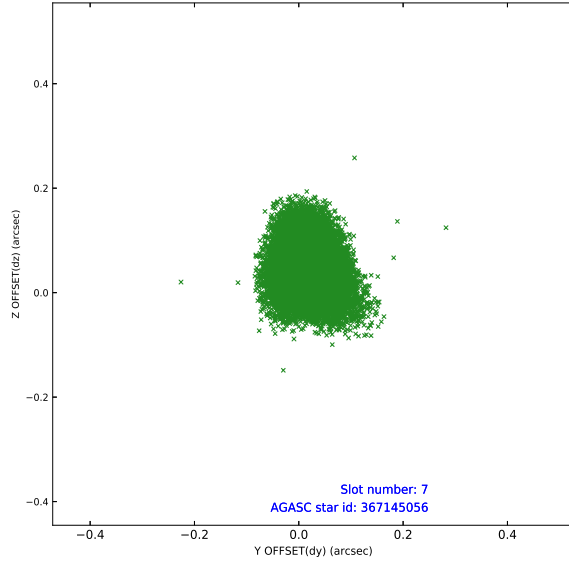
Time (s)



2.4.4 Slot 6

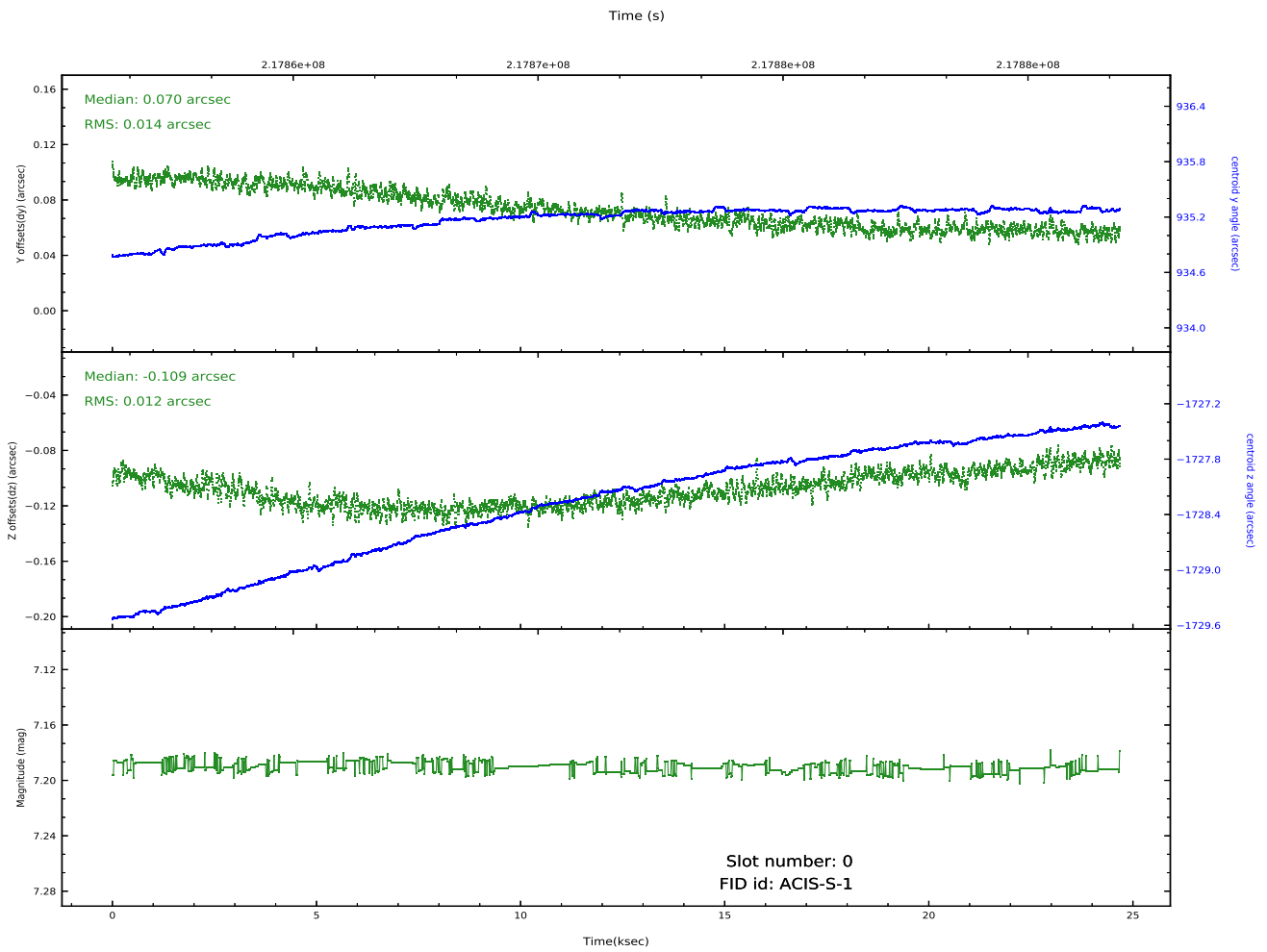
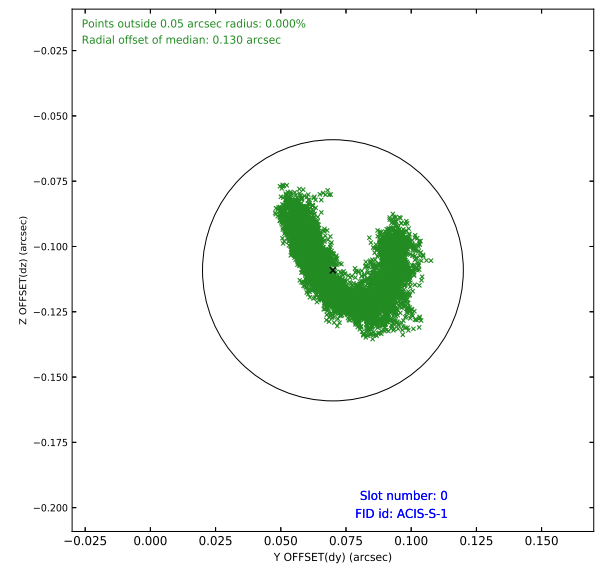
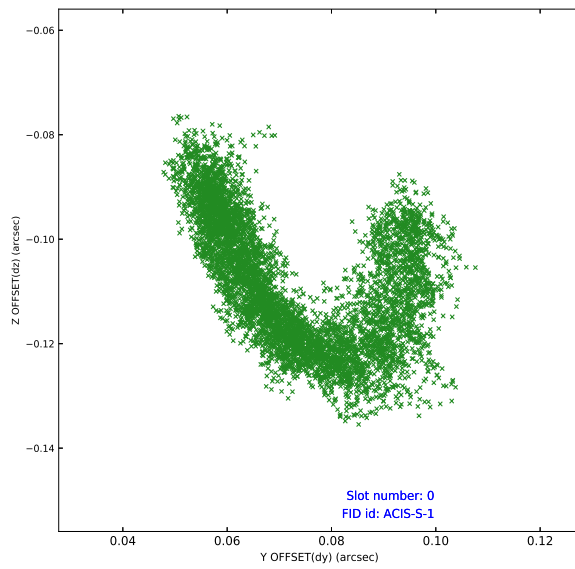


2.4.5 Slot 7

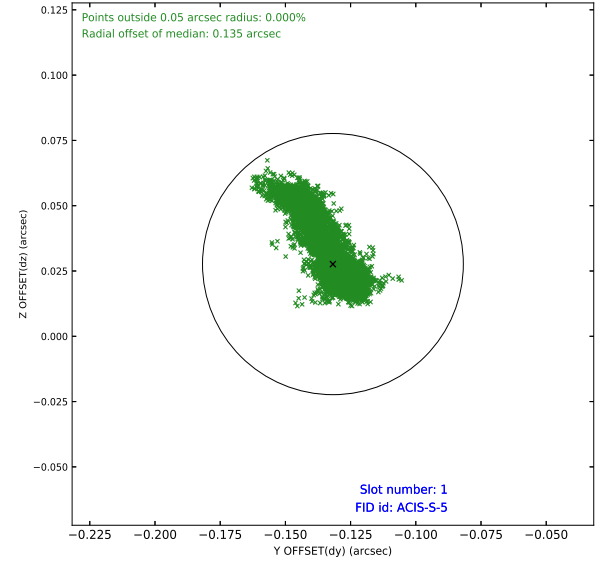
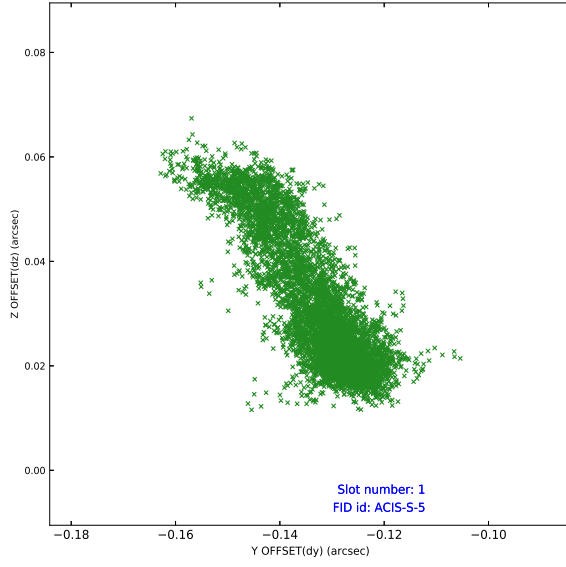


2.5 FID Slots

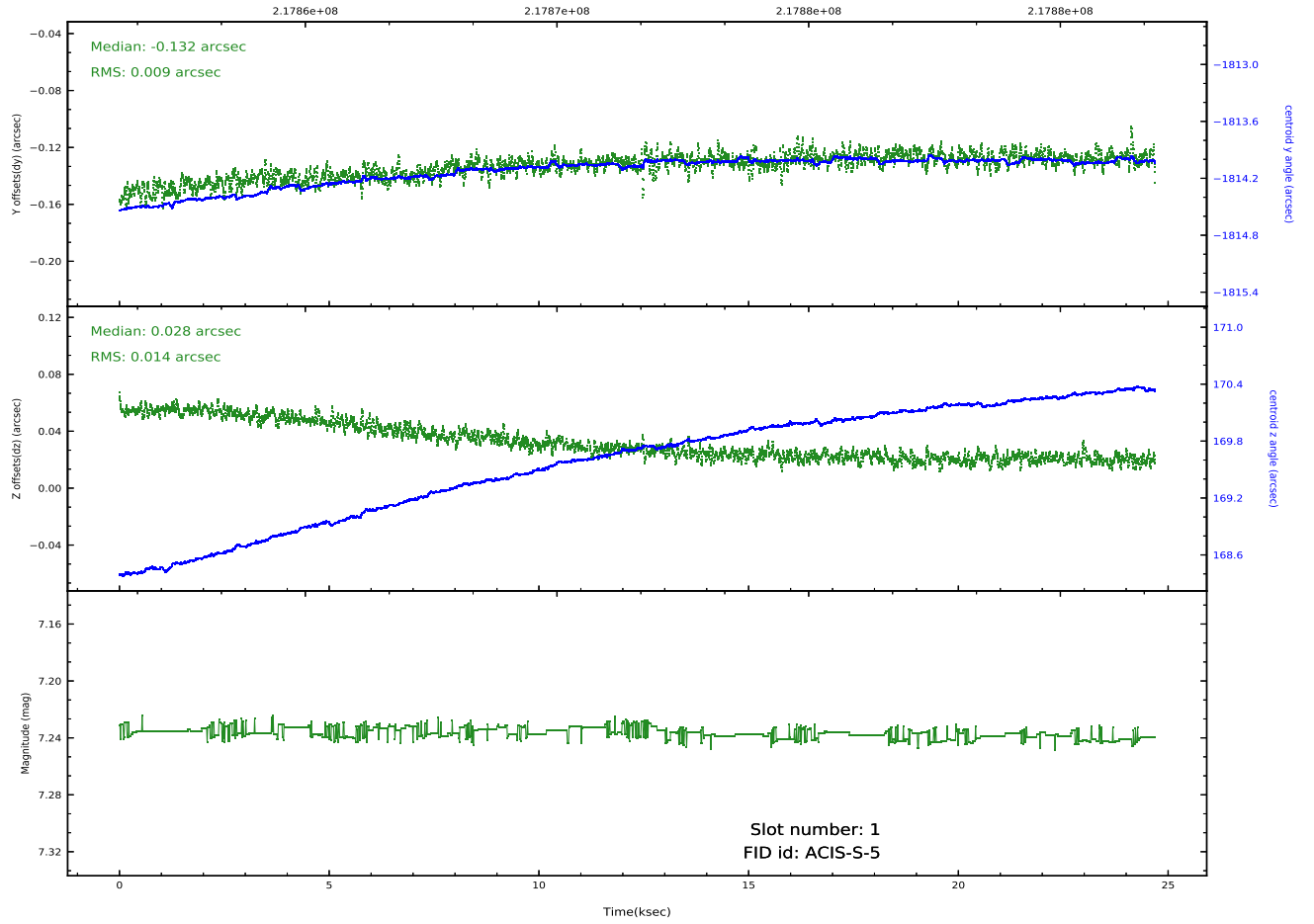
2.5.1 Slot 0



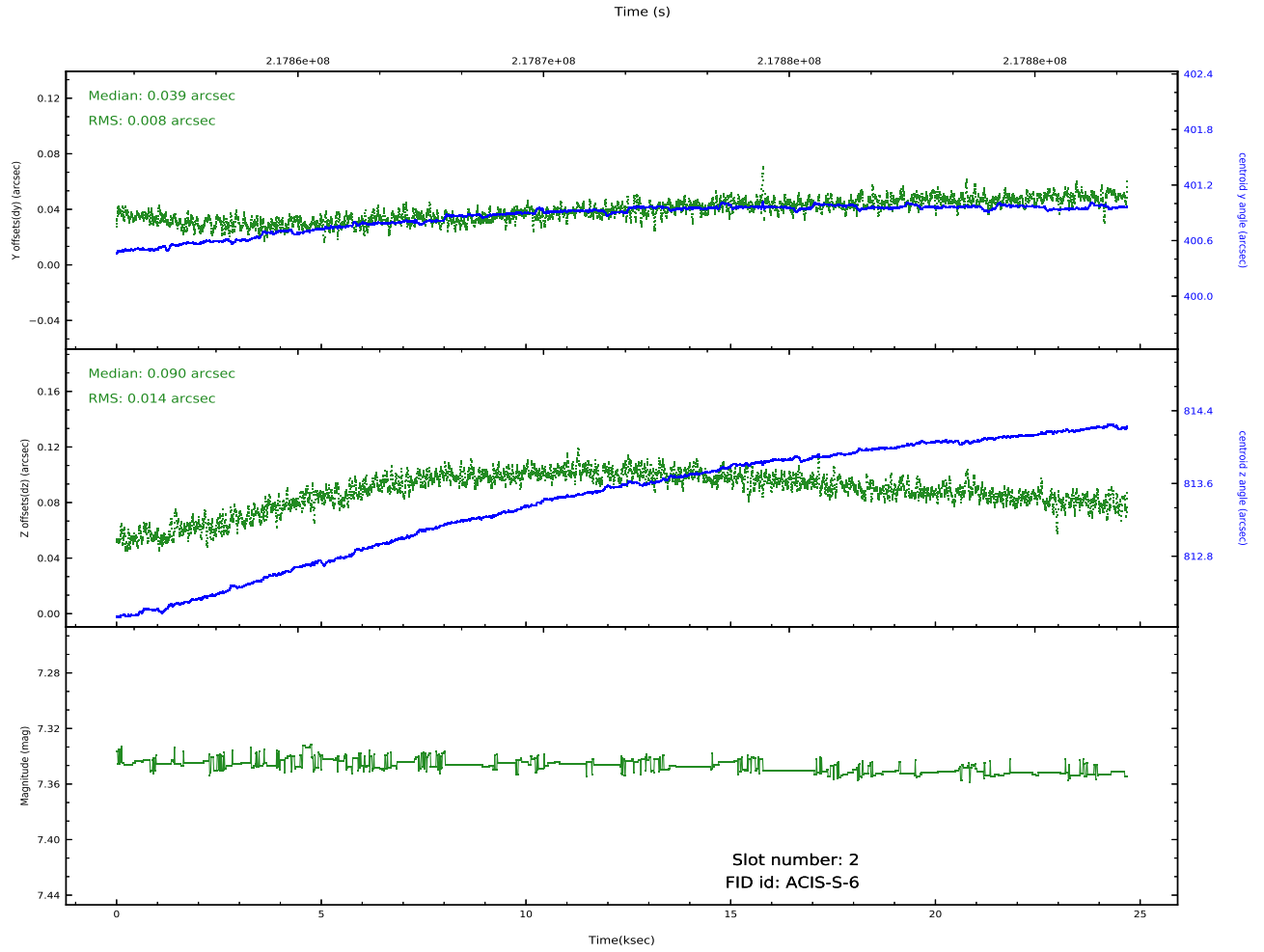
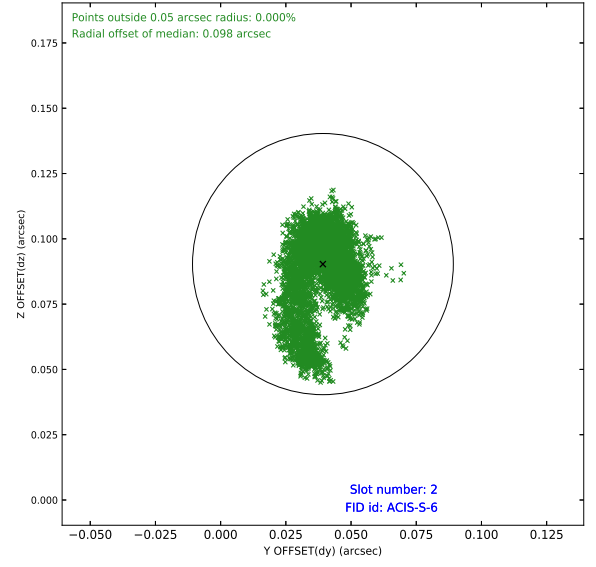
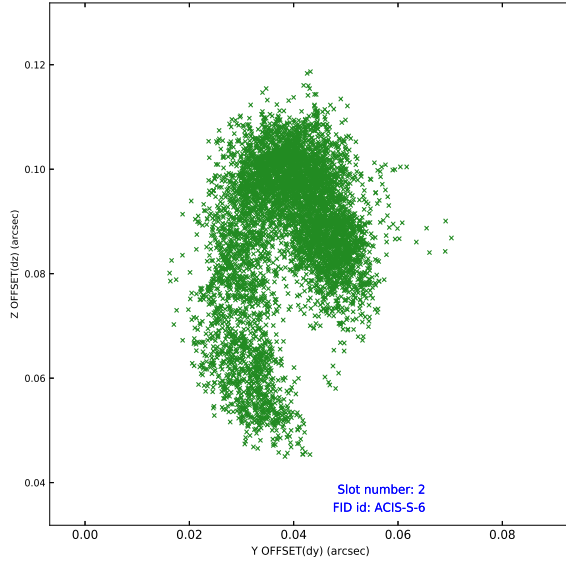
2.5.2 Slot 1



Time (s)



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2020.10.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	24.53439

A.2 Comments