

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5613 - L2 Version 4
Chandra X-Ray Center

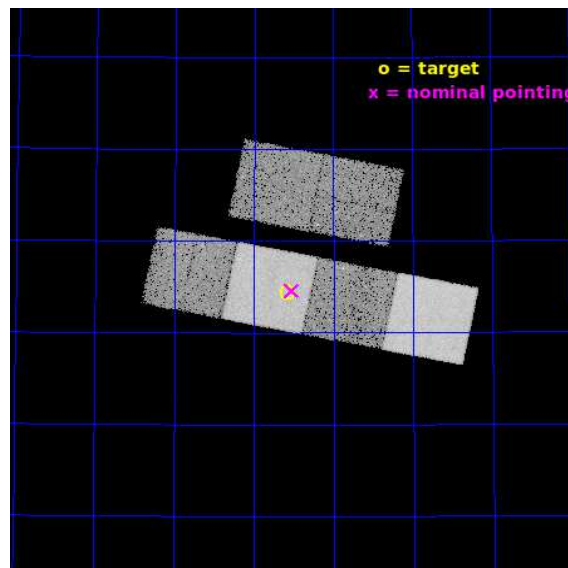
L2 Processing Date : Oct 6 2020

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1 Front

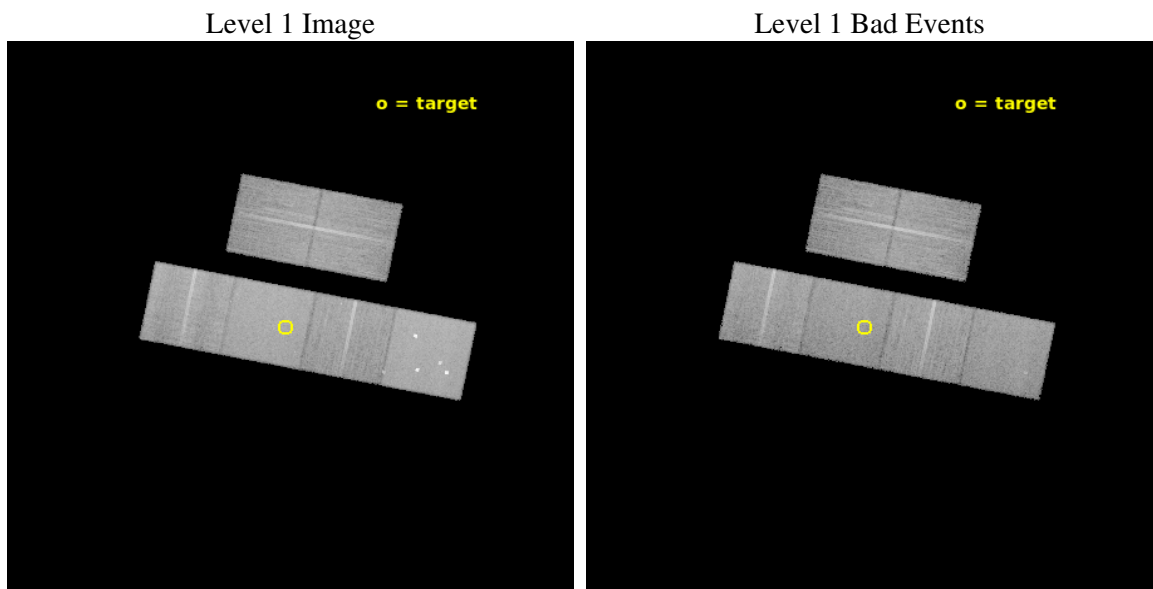
seq_num	701036	Sequence number
obs_id	5613	Observation id
title	A Chandra Survey of the Most Distant Quasars: X-raying the First Massive Black Holes	Proposal title
observer	William Brandt	Principal investigator
object	SDSS J0840+5624	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	130.145	Observer's specified target RA [deg]
dec_targ	56.407	Observer's specified target Dec [deg]
ra_nom	130.13062006981	Nominal RA [deg]
dec_nom	56.409934014054	Nominal Dec [deg]
roll_nom	191.28124676405	Nominal Roll [deg]
revision	4	Processing version of data
ontime	16047.460818291	Sum of GTIs [s]
livetime	15844.258206789	Livetime [s]
ontime2	16047.501858294	Sum of GTIs [s]
ontime3	16044.096708	Sum of GTIs [s]
ontime5	16047.419778287	Sum of GTIs [s]
ontime6	16047.378738284	Sum of GTIs [s]
ontime7	16047.460818291	Sum of GTIs [s]
ontime8	16047.296658307	Sum of GTIs [s]
l2events	185989	Number of level 2 events



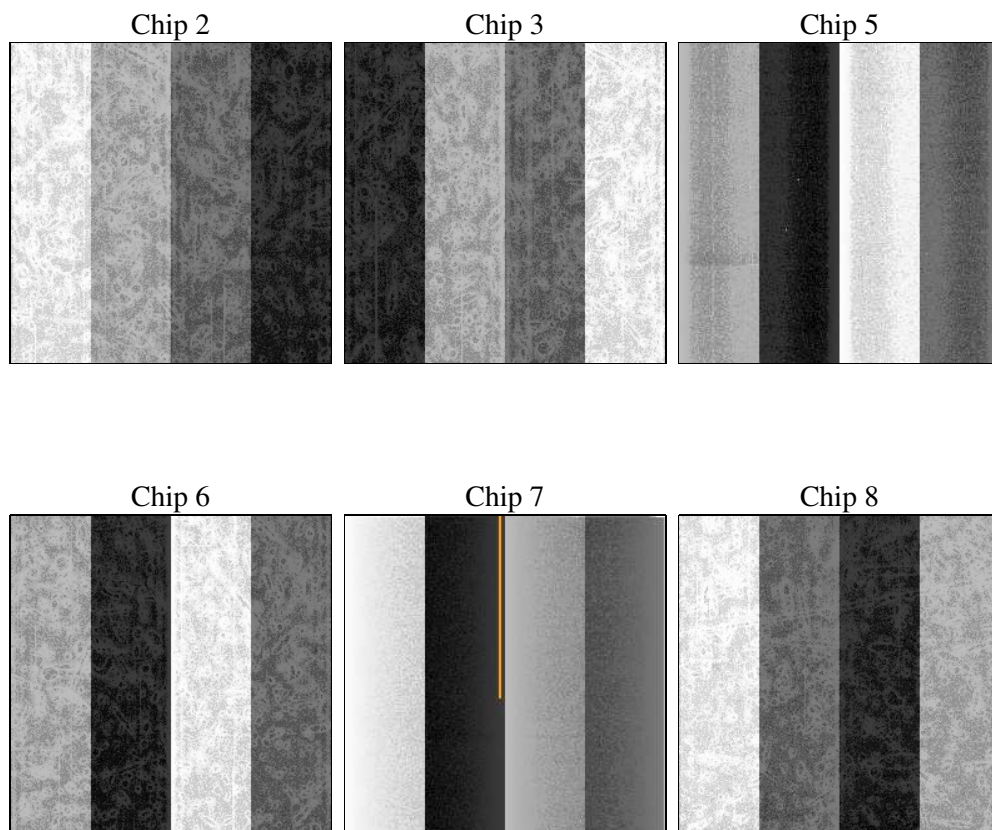
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	15900.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	16047.460818291	Sum of GTIs [s]
caldsver	4.9.2	 	ontime2	16047.501858294	Sum of GTIs [s]
date	2020-10-06T14:48:00	Date and time of file creation	ontime3	16044.096708	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	16047.419778287	Sum of GTIs [s]
			ontime6	16047.378738284	Sum of GTIs [s]
			ontime7	16047.460818291	Sum of GTIs [s]
			ontime8	16047.296658307	Sum of GTIs [s]
			l1events	847437	Number of level 1 events

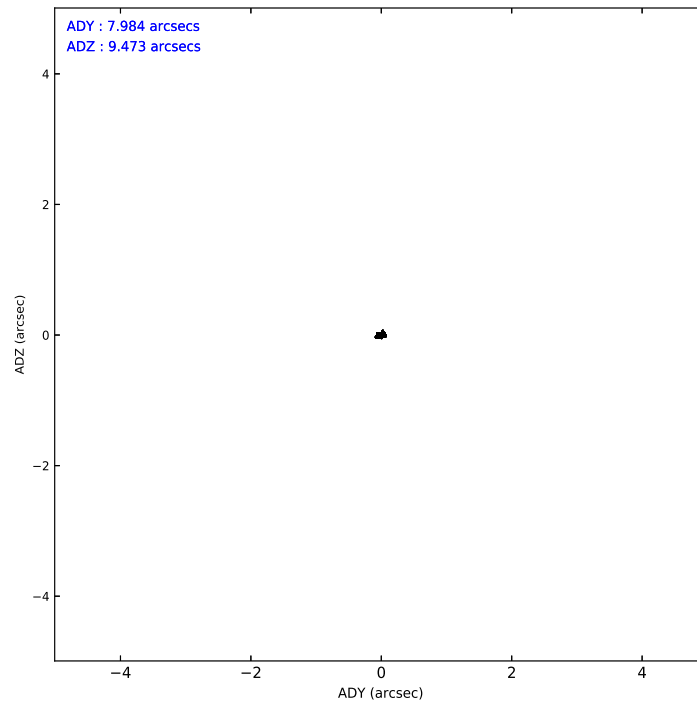
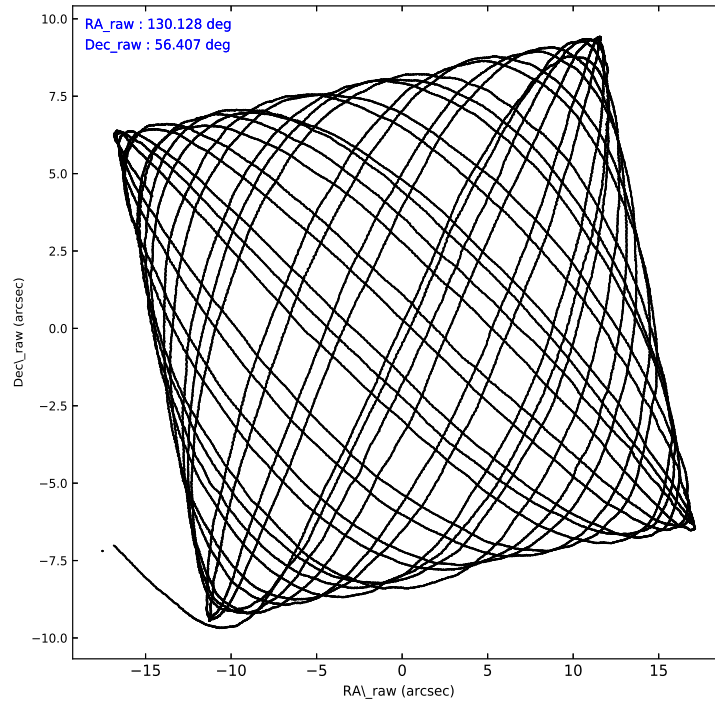
2.1.4 Events

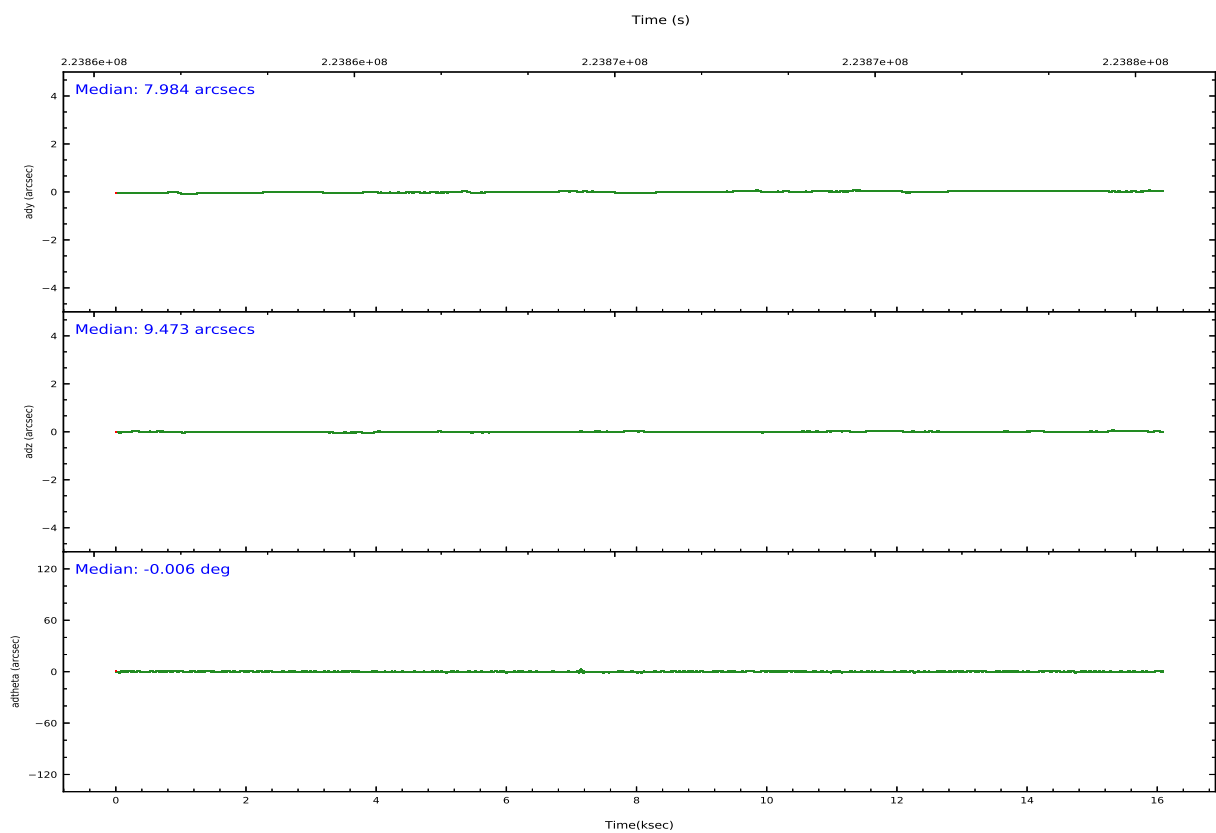
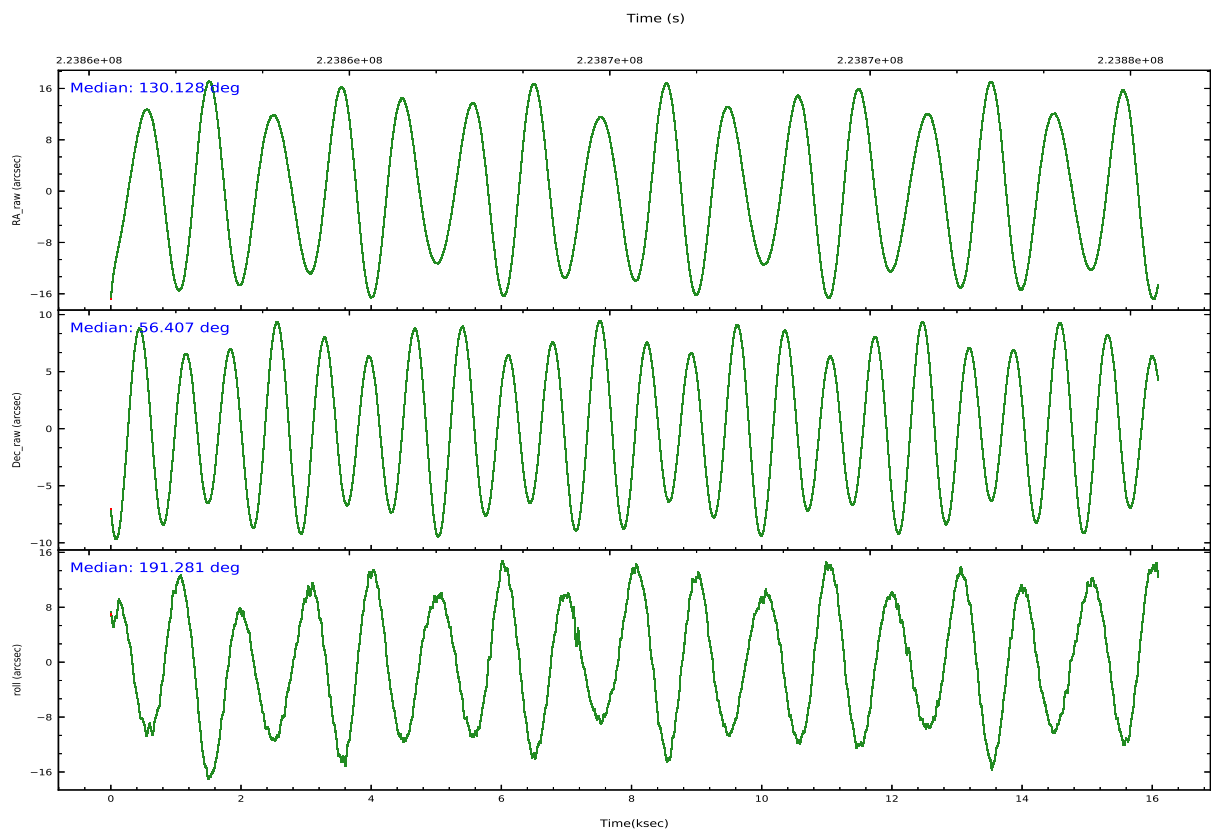
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	124579	112992	182883	122430	158574	145979	grade 0 events	5904	5906	15316	5471	5673	10425
rejected events	110882	99384	95273	108481	93792	114032		4%	5%	8%	4%	3%	7%
rejected %	89%	87%	52%	88%	59%	78%	grade 1 events	72	66	446	61	155	94
								0%	0%	0%	0%	0%	0%
							grade 2 events	2926	2640	24454	3013	12854	7039
								2%	2%	13%	2%	8%	4%
							grade 3 events	1216	1293	2830	1288	5686	3419
								0%	1%	1%	1%	3%	2%
							grade 4 events	1288	1311	2674	1289	5510	3153
								1%	1%	1%	1%	3%	2%
							grade 5 events	4624	5233	12234	5385	14826	7174
								3%	4%	6%	4%	9%	4%
							grade 6 events	2368	2463	42368	2893	35077	7921
								1%	2%	23%	2%	22%	5%
							grade 7 events	106181	94080	82561	103030	78793	106754
								85%	83%	45%	84%	49%	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	130.164087	130.13062006981	Subarray requested	NONE	NONE
[deg] Pointing Dec	56.425040	56.409934014054	Alternating exposures requested	N	N
[deg] Pointing Roll	191.095686	191.28124676405	[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	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	223860524.184000	223859461.33194			
Observation start date	2005-02-03T23:27:40	2005-02-03T23:11:01			
[s] Observation end time (MET)	223876424.184000	223876894.02023			
Observation end date	2005-02-04T03:52:40	2005-02-04T04:01:34			
Read mode	TIMED	TIMED			

2.3 Aspect



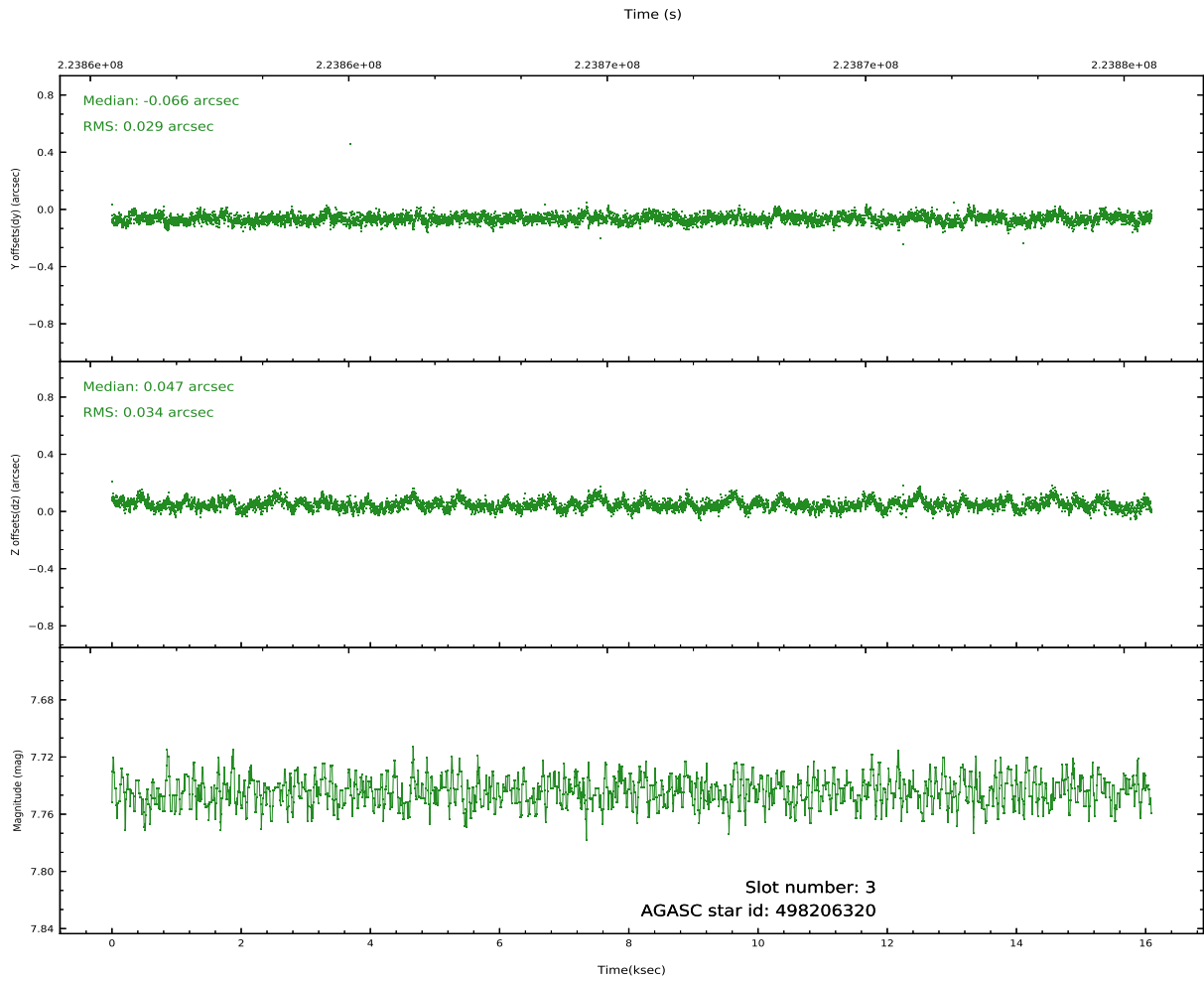
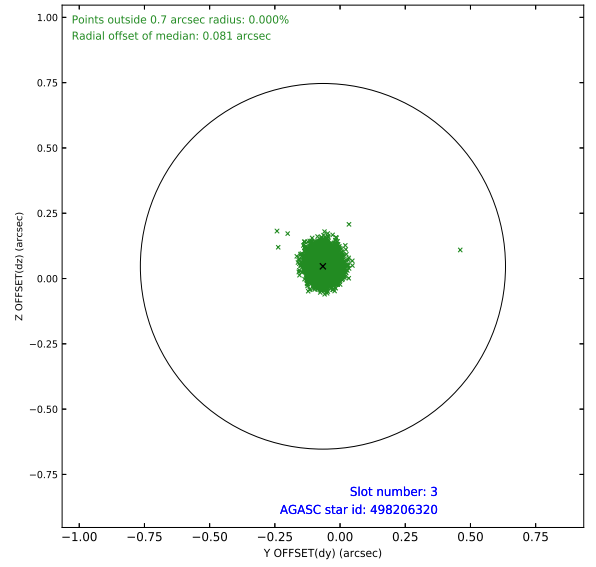
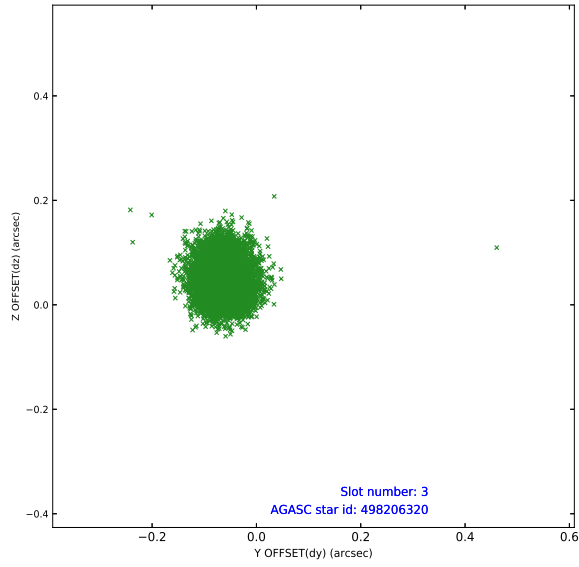


Slot Statistics

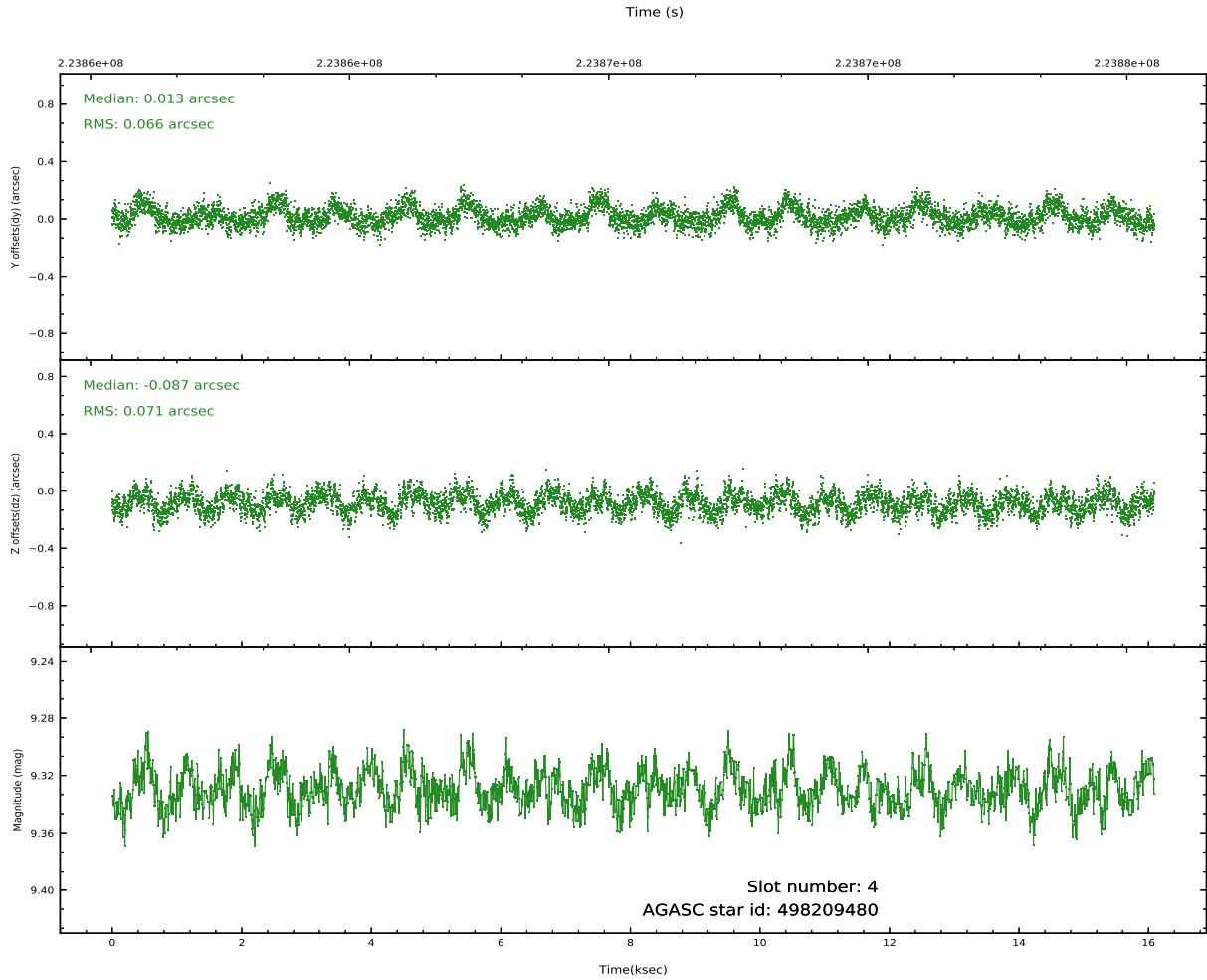
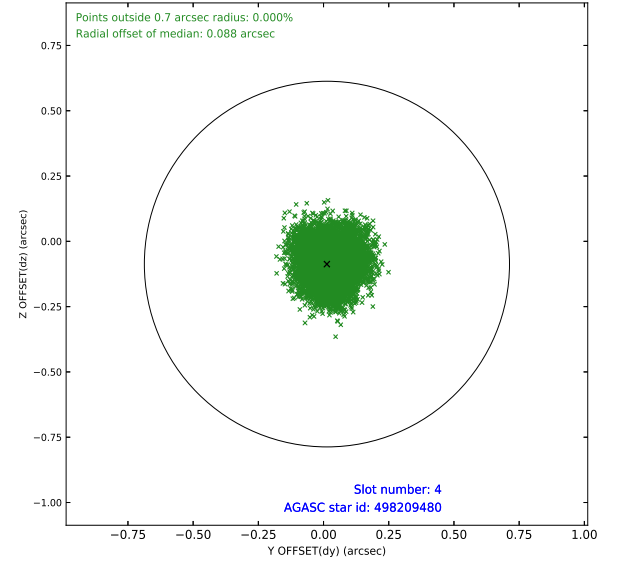
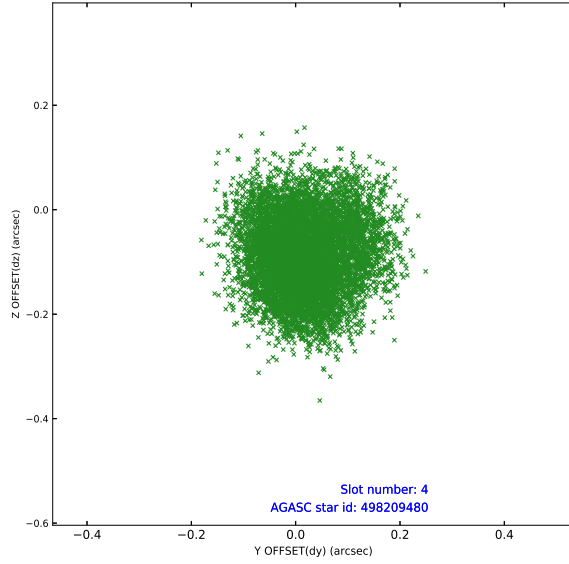
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.11	3924	1.000	-0.062	-0.078	0.007	0.011	0.000000	0.000000	-760.76	-1730
1	FID		ACIS-S-4	7.21	3925	1.000	0.169	0.051	0.006	0.012	0.000000	0.000000	2152.56	177
2	FID		ACIS-S-5	7.24	3925	1.000	-0.138	0.036	0.007	0.011	0.000000	0.000000	-1813.40	171
3	GUIDE	used	498206320	7.74	7849	1.000	-0.066	0.047	0.047	0.078	129.264284	55.839214	2188.53	1708
4	GUIDE	used	498209480	9.33	7844	1.000	0.013	-0.087	0.105	0.164	130.677043	56.388292	-978.02	323
5	GUIDE	used	498209904	9.40	7847	1.000	0.063	0.045	0.086	0.140	130.595865	56.107689	-631.20	1285
6	GUIDE	used	498210008	9.59	7848	1.000	0.040	0.115	0.177	0.262	130.031703	56.476753	222.47	-233
7	GUIDE	used	498211200	9.09	7844	1.000	-0.059	-0.110	0.085	0.140	129.416191	56.796643	1188.23	-1604

2.4 Star Slots

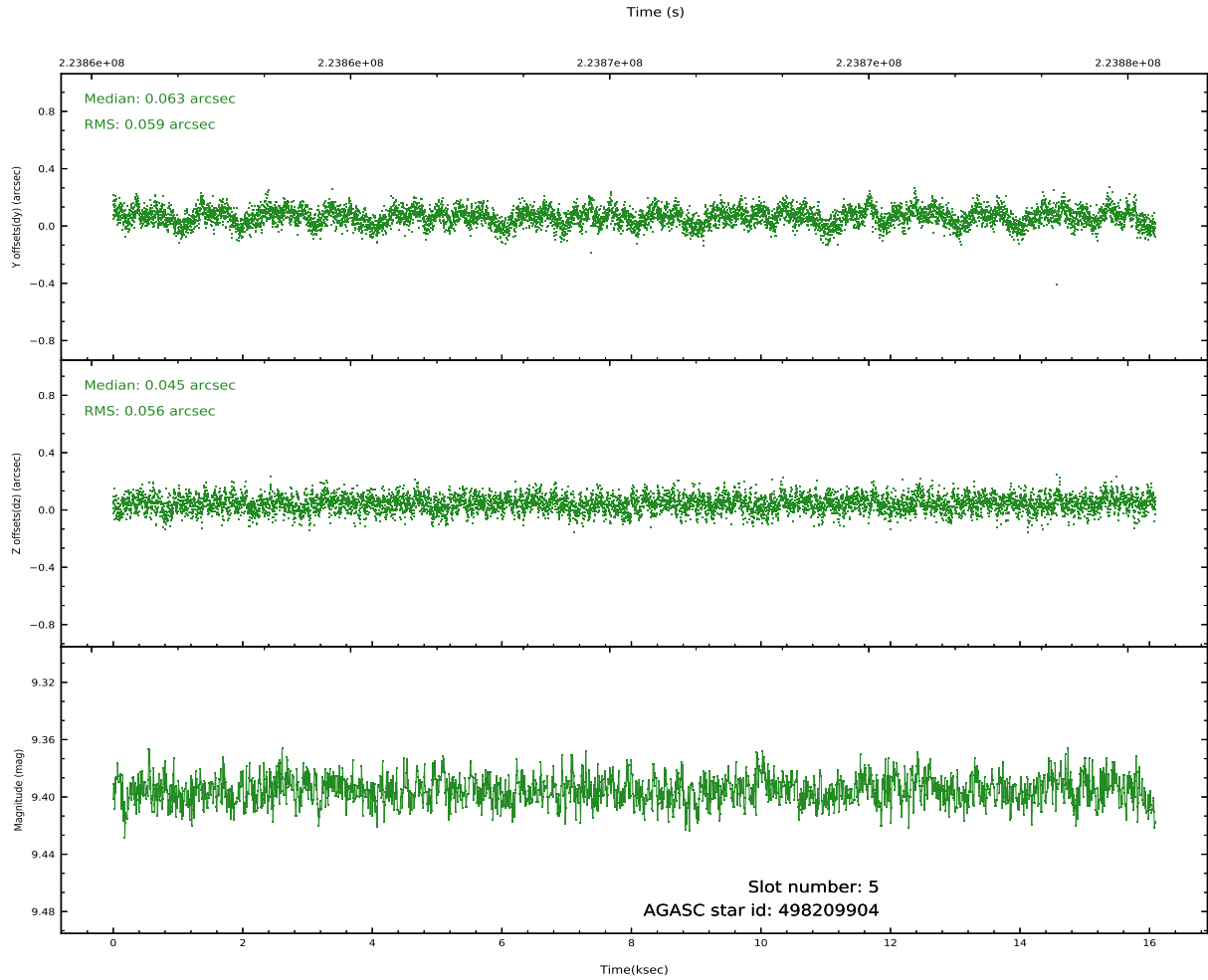
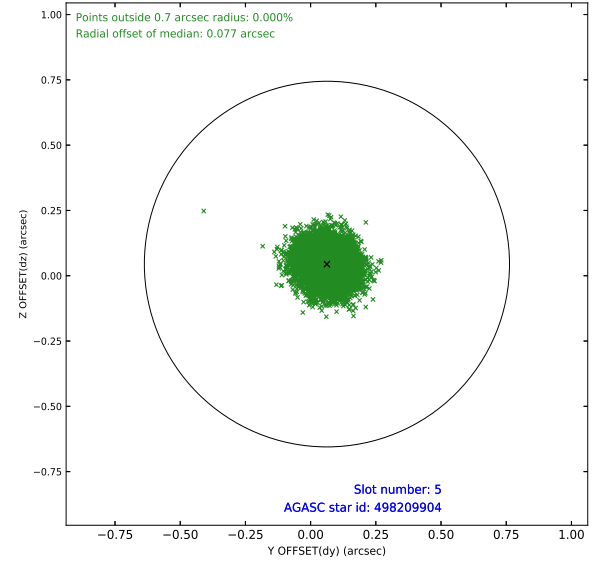
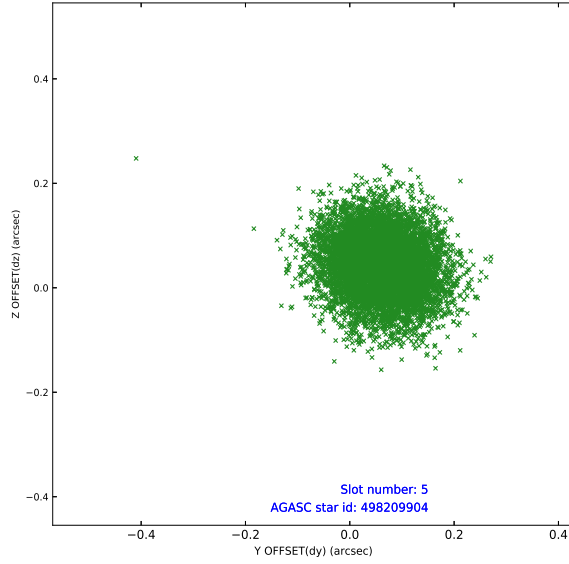
2.4.1 Slot 3



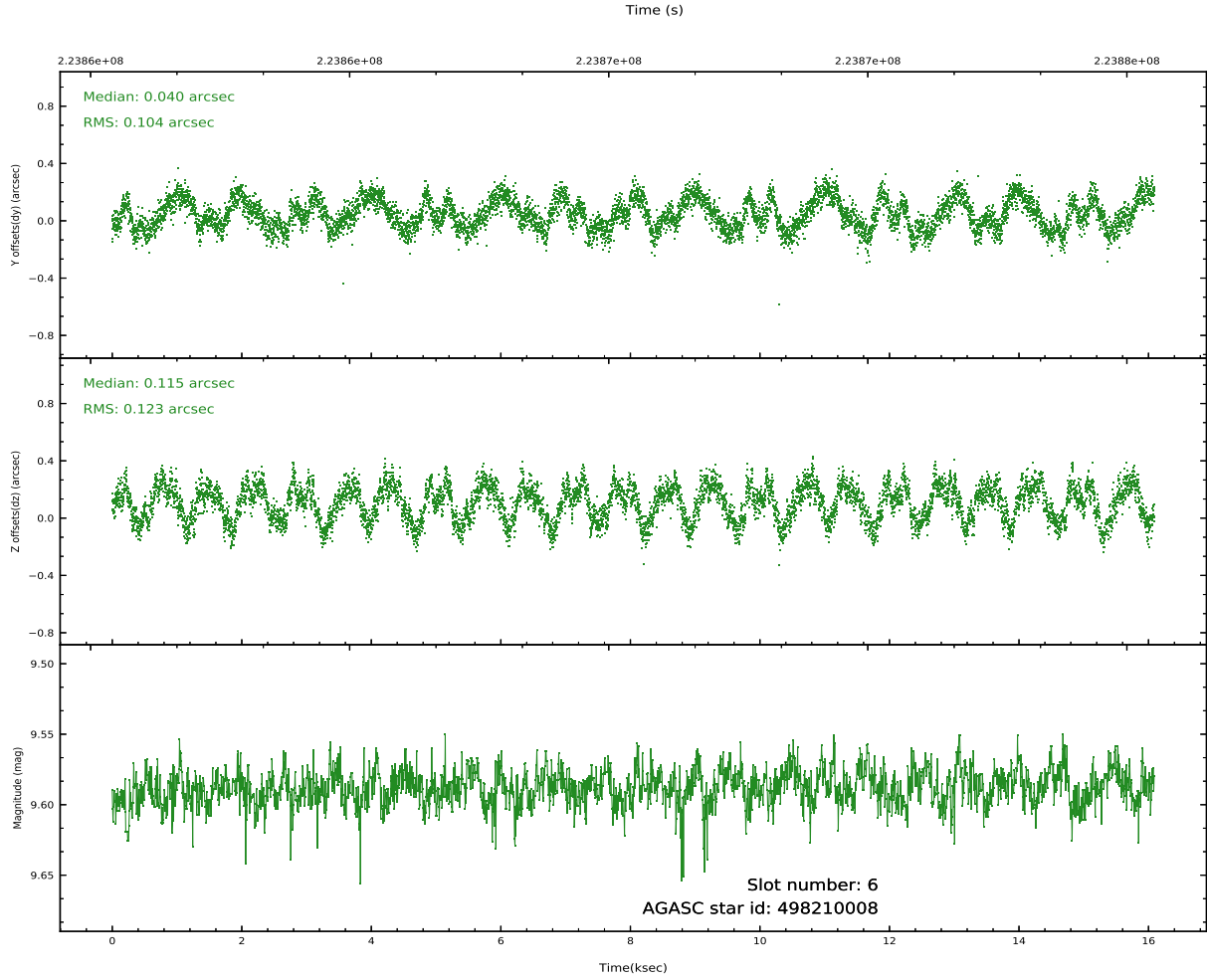
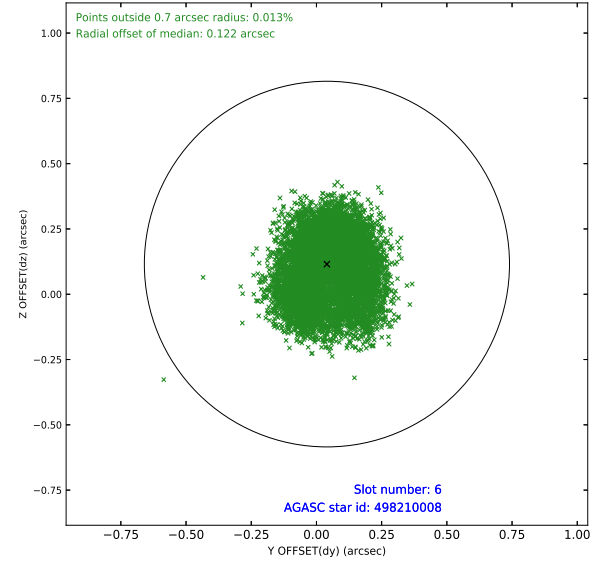
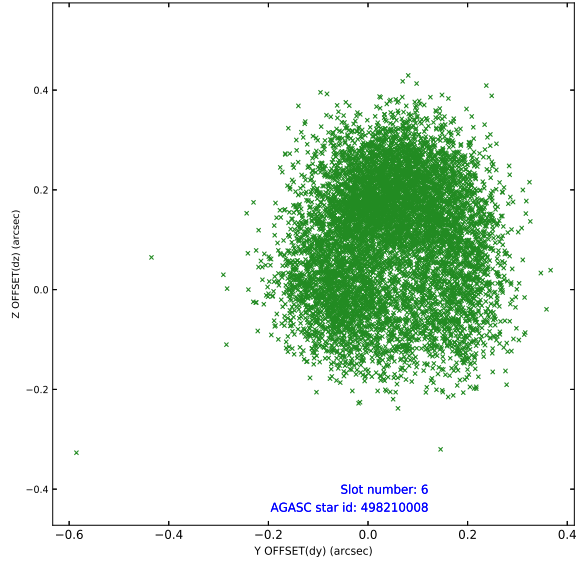
2.4.2 Slot 4



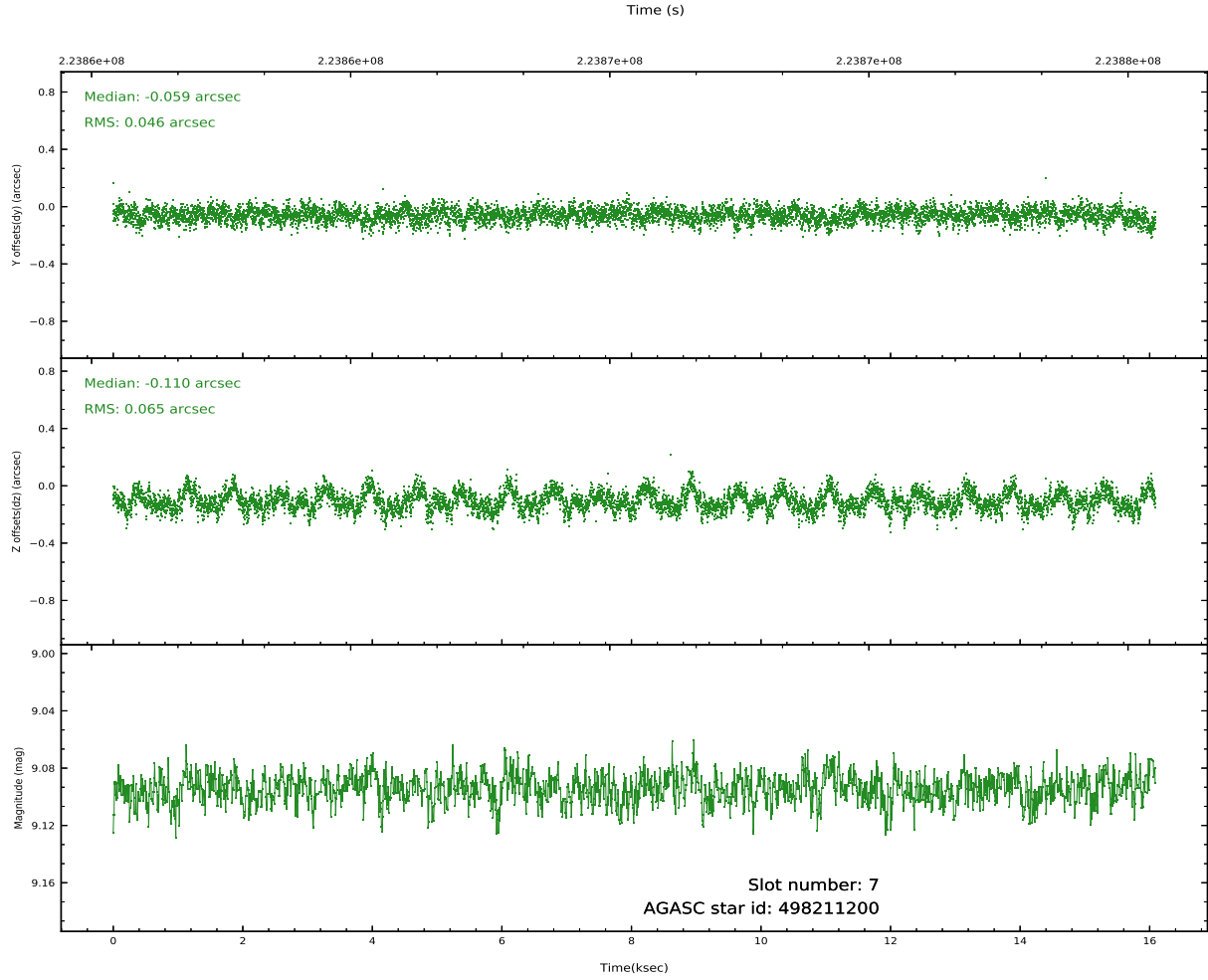
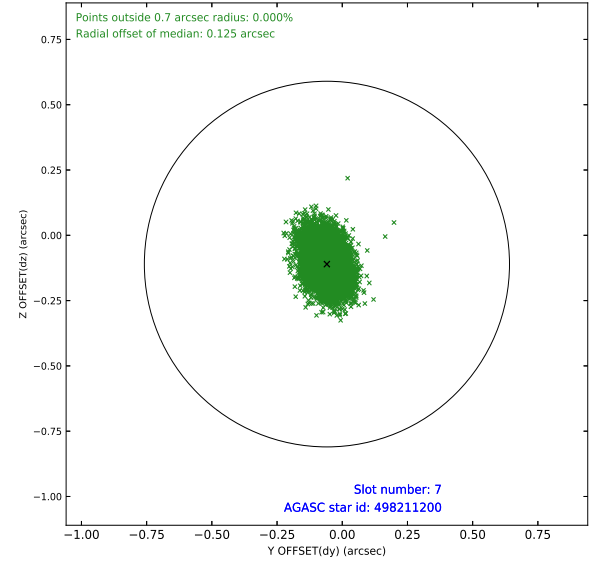
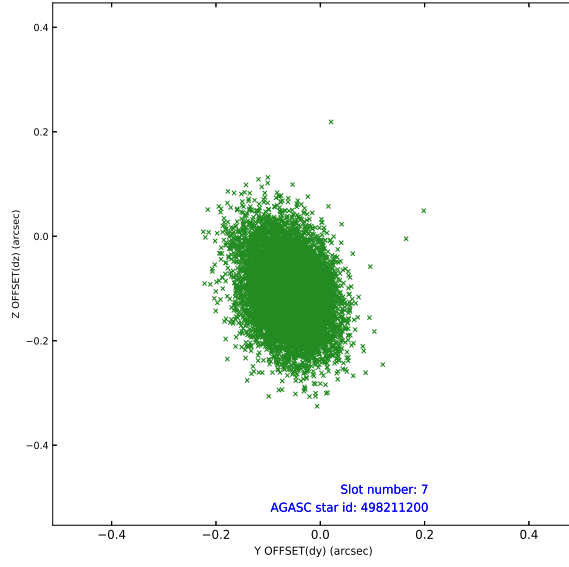
2.4.3 Slot 5



2.4.4 Slot 6

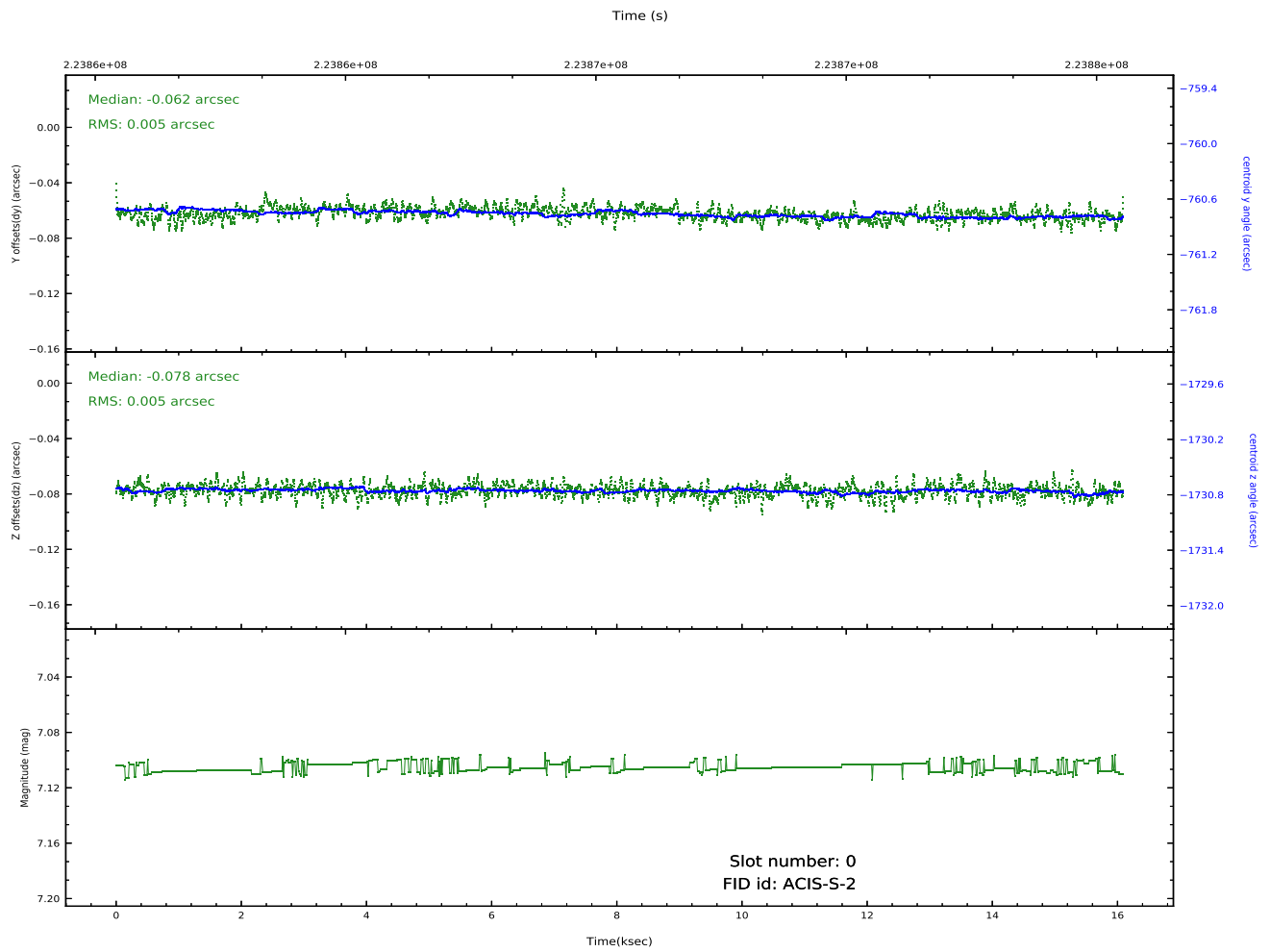
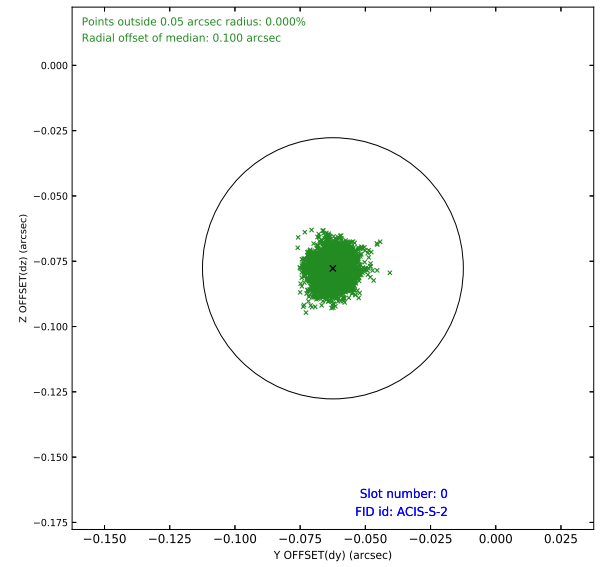
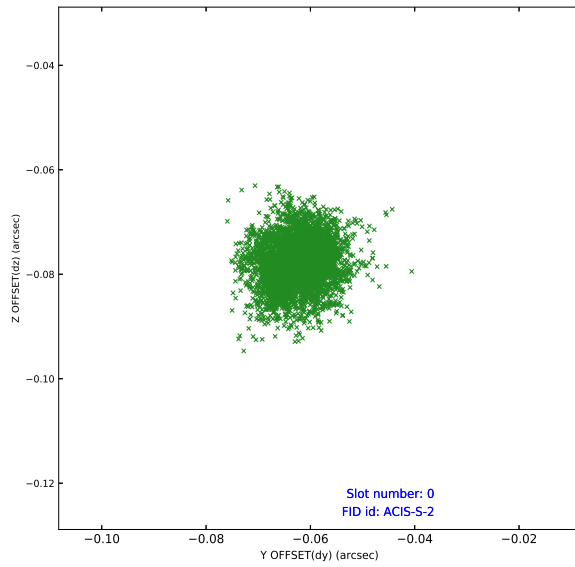


2.4.5 Slot 7

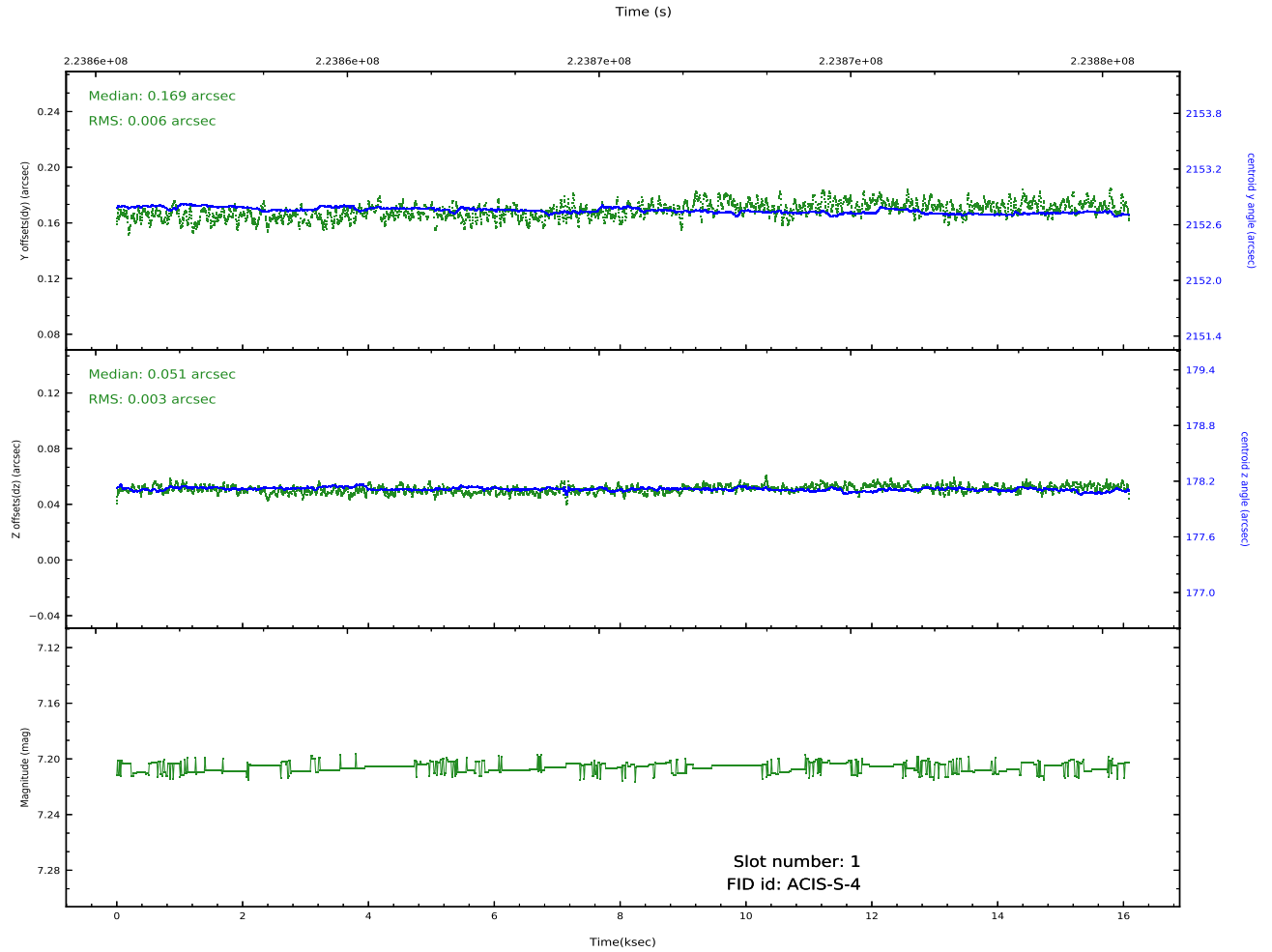
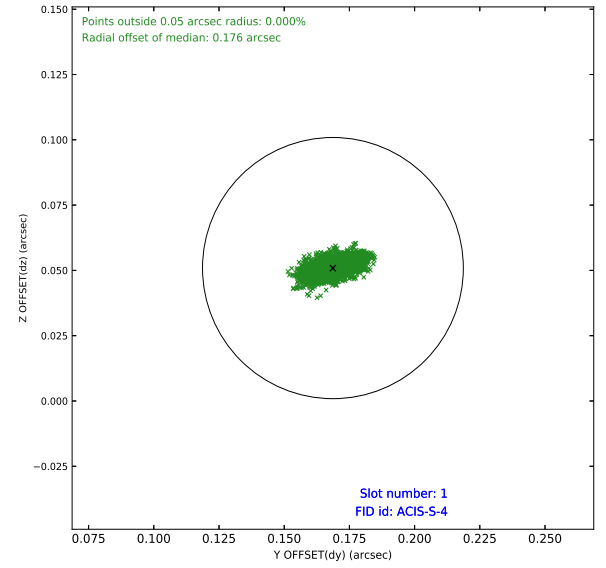
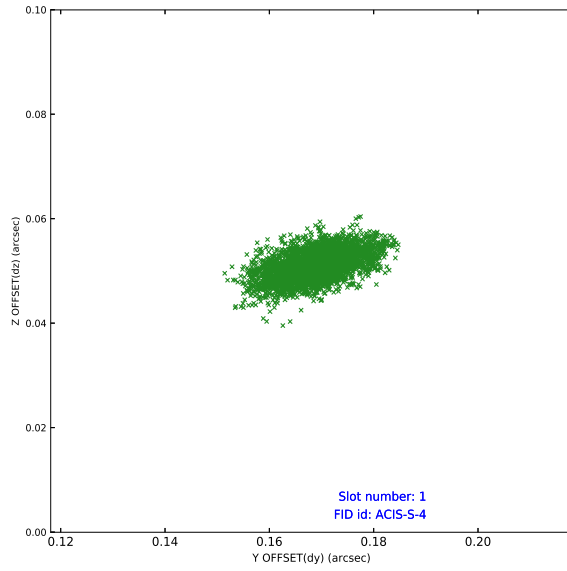


2.5 FID Slots

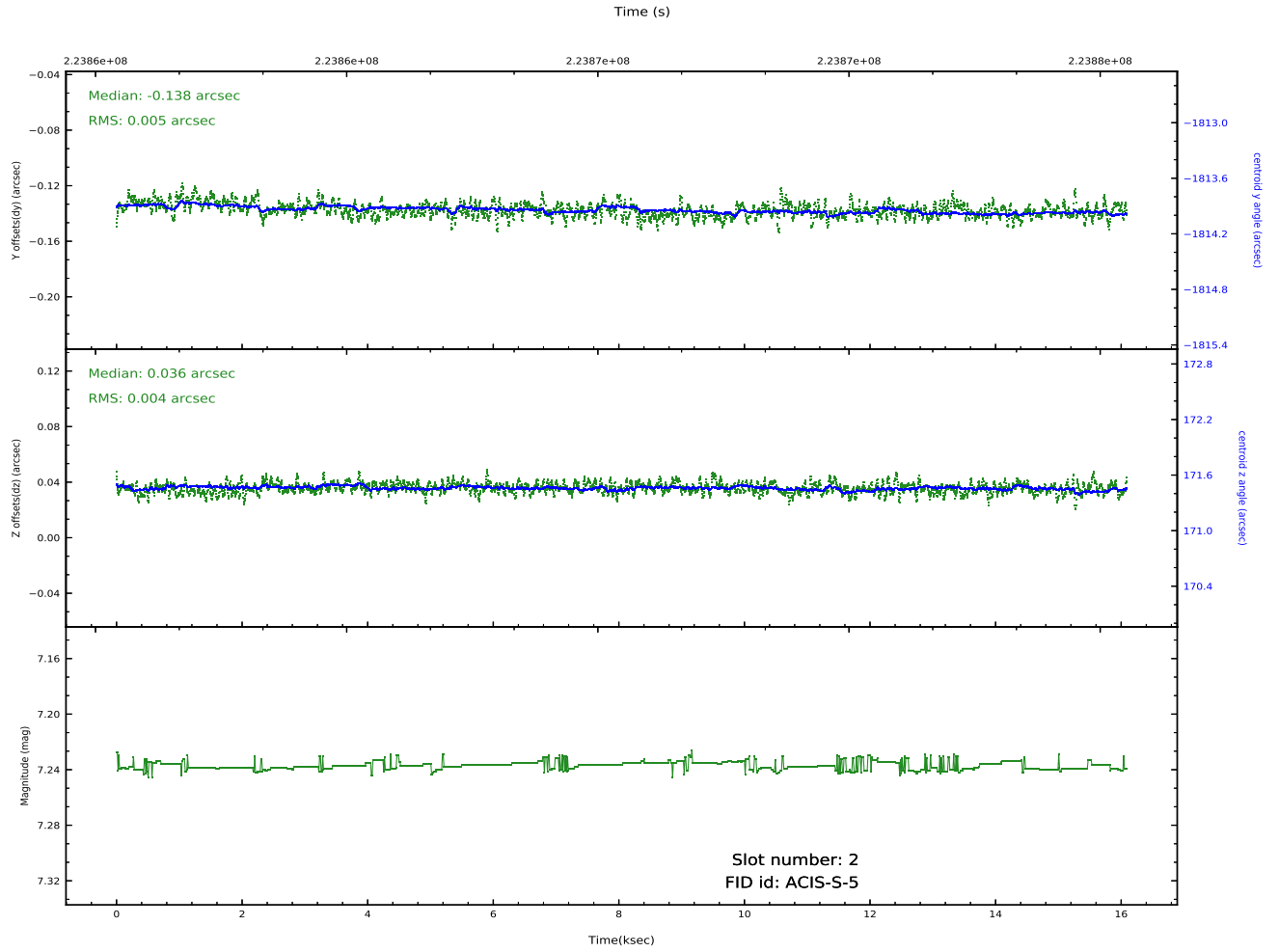
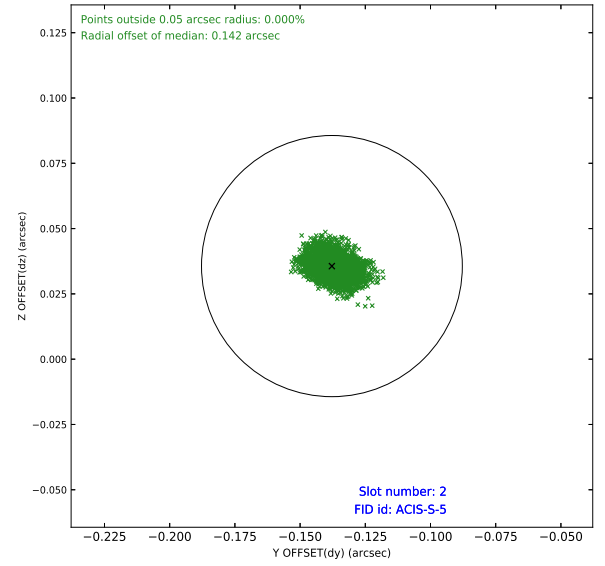
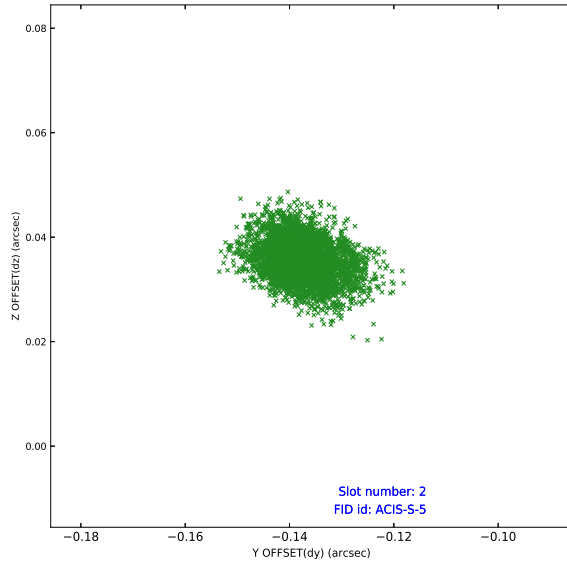
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2020.10.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	16.04799

A.2 Comments