

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20646 - L2 Version 2
Chandra X-Ray Center

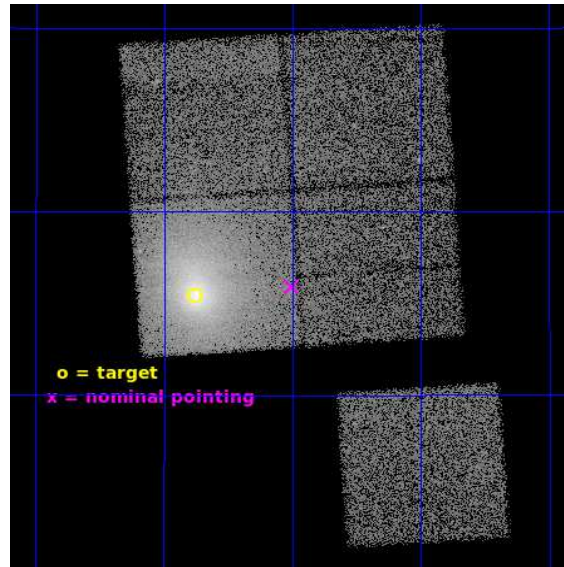
L2 Processing Date : Oct 25 2020

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1 Front

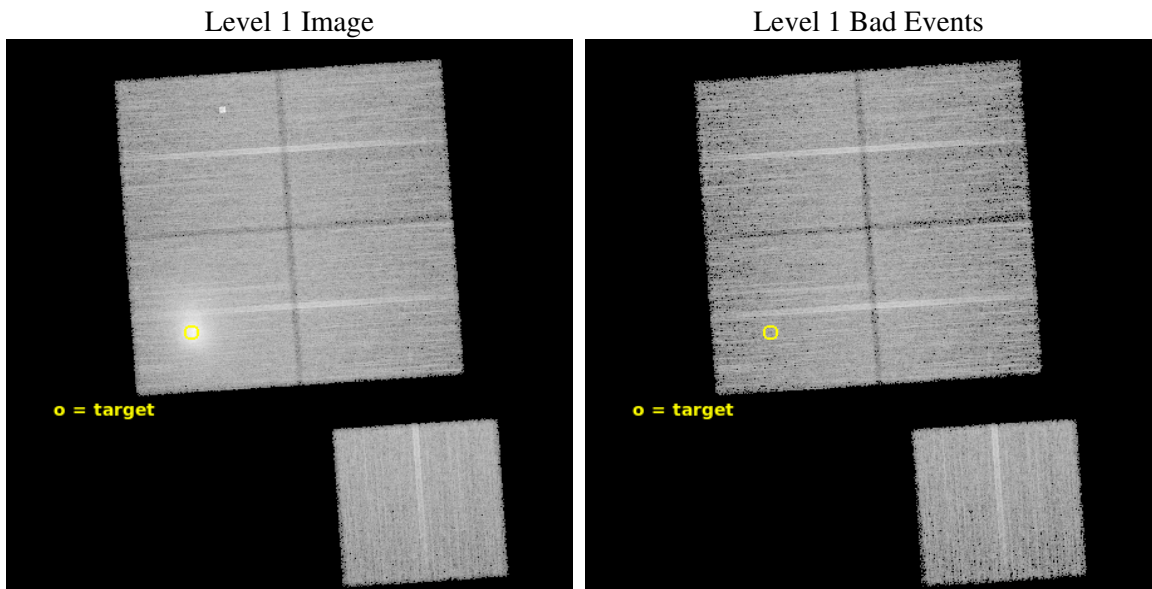
seq_num	890153	Sequence number
obs_id	20646	Observation id
title	AO-19 Calibration Observations of A1795	Proposal title
observer	CXC Calibration	Principal investigator
object	A1795	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	207.219583	Observer's specified target RA [deg]
dec_targ	26.590833	Observer's specified target Dec [deg]
ra_nom	207.12545155393	Nominal RA [deg]
dec_nom	26.598466828785	Nominal Dec [deg]
roll_nom	176.07891530404	Nominal Roll [deg]
revision	2	Processing version of data
ontime	25063.1455158	Sum of GTIs [s]
livetime	24735.677068416	Livetime [s]
ontime0	25066.163436055	Sum of GTIs [s]
ontime1	25066.204475999	Sum of GTIs [s]
ontime2	25063.10442555	Sum of GTIs [s]
ontime3	25063.1455158	Sum of GTIs [s]
ontime6	25059.840365648	Sum of GTIs [s]
l2events	211588	Number of level 2 events



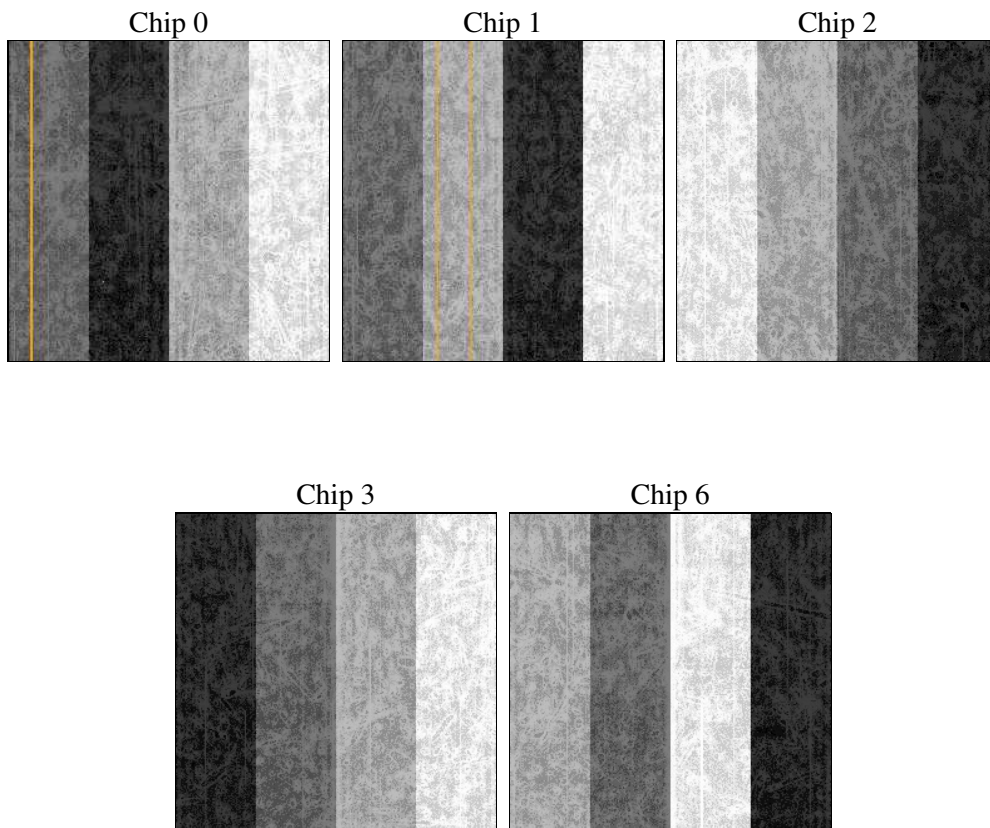
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	25000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	25063.1455158	Sum of GTIs [s]
caldsver	4.9.3	 	ontime0	25066.163436055	Sum of GTIs [s]
date	2020-10-25T12:57:57	Date and time of file creation	ontime1	25066.204475999	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	25063.10442555	Sum of GTIs [s]
			ontime3	25063.1455158	Sum of GTIs [s]
			ontime6	25059.840365648	Sum of GTIs [s]
			l1events	1072046	Number of level 1 events

2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	177144	189833	199340	311513	194216
rejected events	154435	160231	175565	174592	172336
rejected %	87%	84%	88%	56%	88%

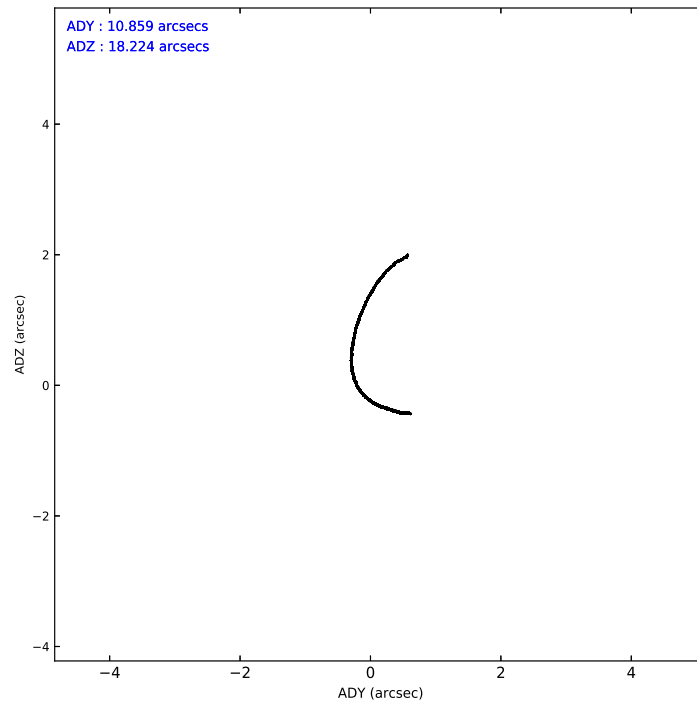
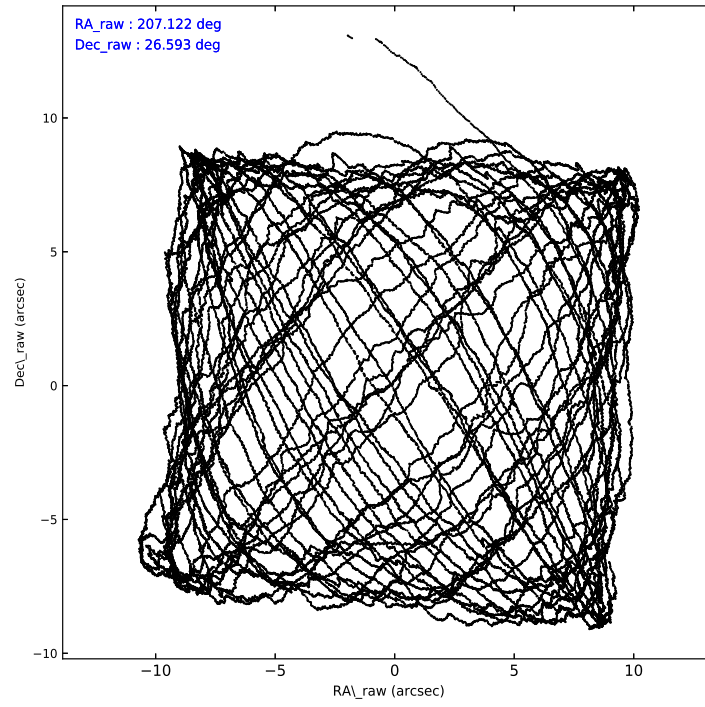
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	8071	13009	9734	99017	7387
	4%	6%	4%	31%	3%
grade 1 events	86	117	126	569	84
	0%	0%	0%	0%	0%
grade 2 events	5682	6388	5581	17412	5098
	3%	3%	2%	5%	2%
grade 3 events	2301	2326	2053	6335	2208
	1%	1%	1%	2%	1%
grade 4 events	2091	2378	2237	6121	2116
	1%	1%	1%	1%	1%
grade 5 events	8166	8798	7662	9540	8819
	4%	4%	3%	3%	4%
grade 6 events	4569	5504	4174	8077	5079
	2%	2%	2%	2%	2%
grade 7 events	146178	151313	167773	164442	163425
	82%	79%	84%	52%	84%

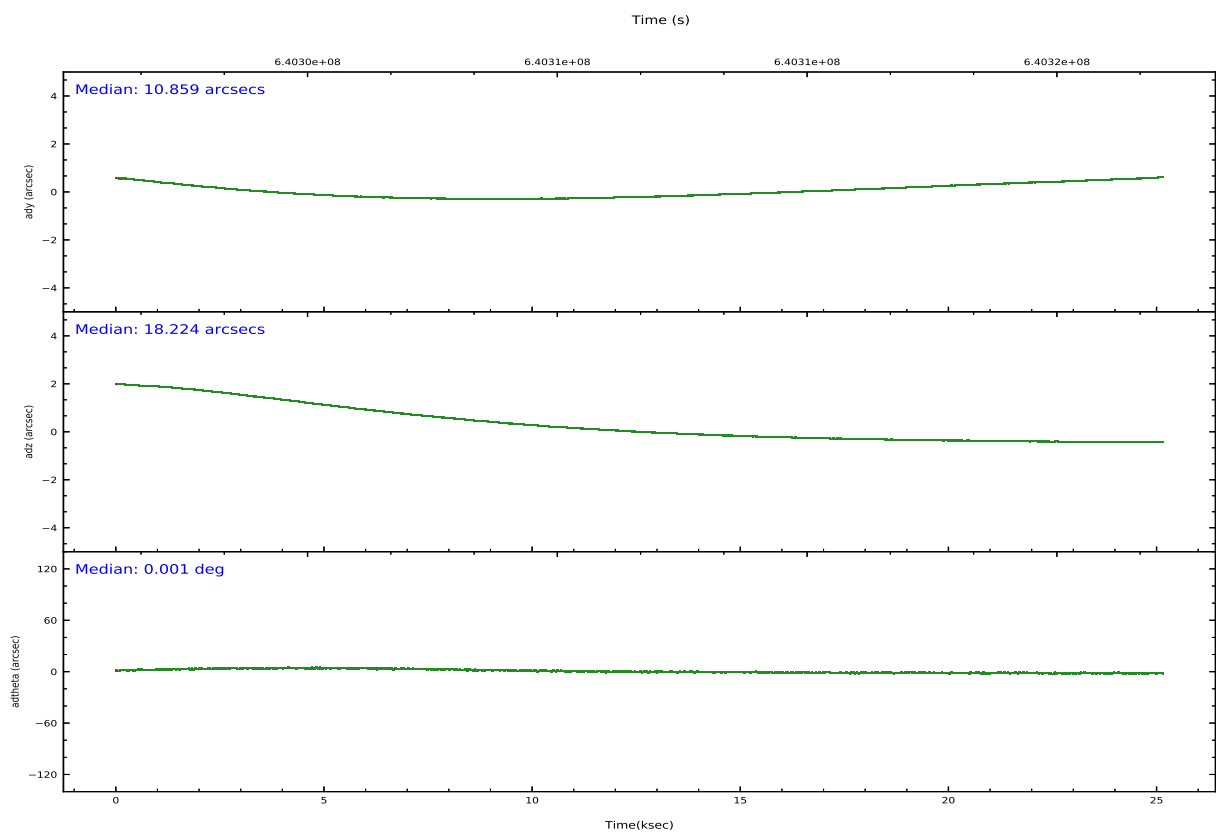
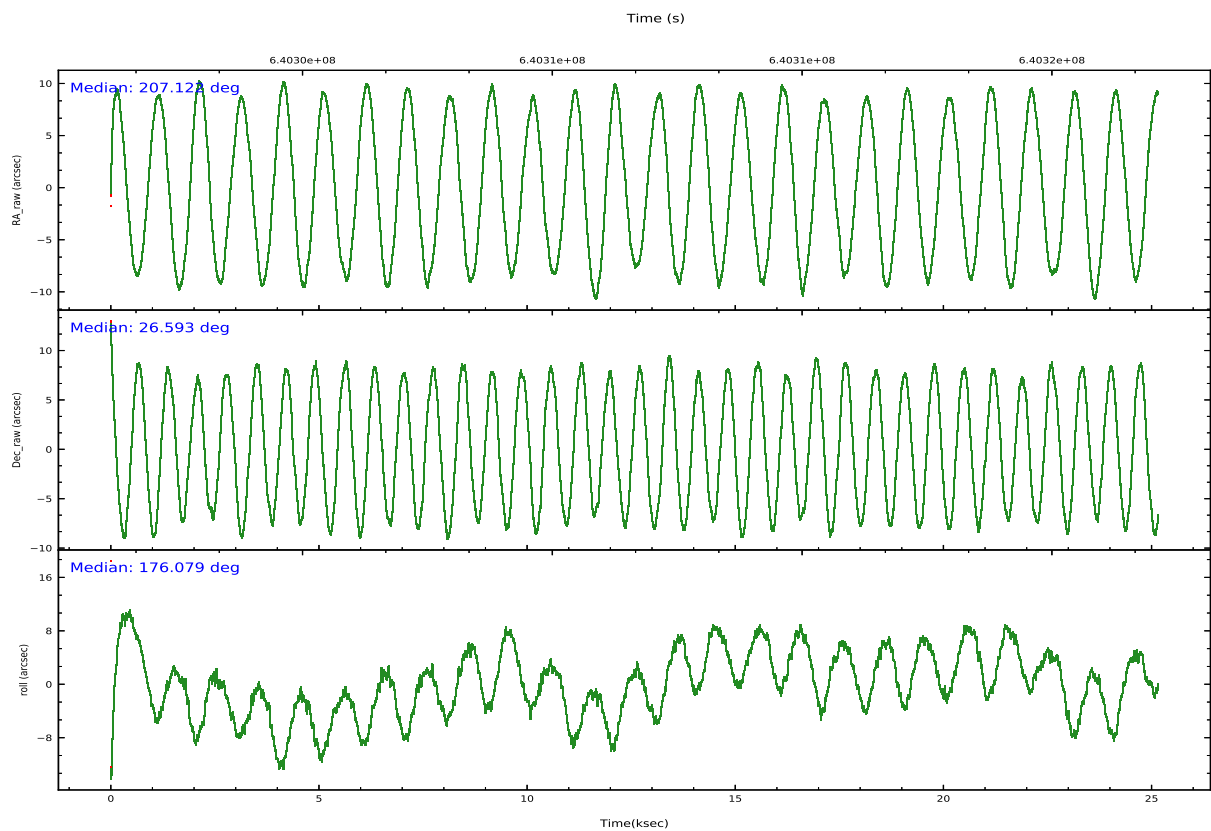
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-01236	ACIS-01236
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	207.149117	207.12545155393
[deg] Pointing Dec	26.605571	26.598466828785
[deg] Pointing Roll	175.864363	176.07891530404
[s] Window start time (MET)	638928069.184000	638928069.184000
[s] Window stop time (MET)	641433669.184000	641433669.184000
[mm] SIM focus pos	-0.782348	-0.7809083437167272
[mm] SIM defocus	0	0.001439871863259334
[mm] SIM translation stage pos	-219.472463	-219.4670397272677
[mm] SIM translation stage offset	-14.12	-14.12541327566197
[s] Observation start time (MET)	640295553.184000	640294273.6407501
Observation start date	2018-04-16T19:51:24	2018-04-16T19:31:13
[s] Observation end time (MET)	640320553.184000	640321236.77985
Observation end date	2018-04-17T02:48:04	2018-04-17T03:00:36
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar version number	8	8
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
CCD I0 on	Y	Y
CCD I1 on	Y	Y
CCD I2 on	Y	Y
CCD I3 on	Y	Y
CCD S0 on	N	N
CCD S1 on	N	N
CCD S2 on	O1	Y
CCD S3 on	N	N
CCD S4 on	N	N
CCD S5 on	N	N
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.1

2.3 Aspect



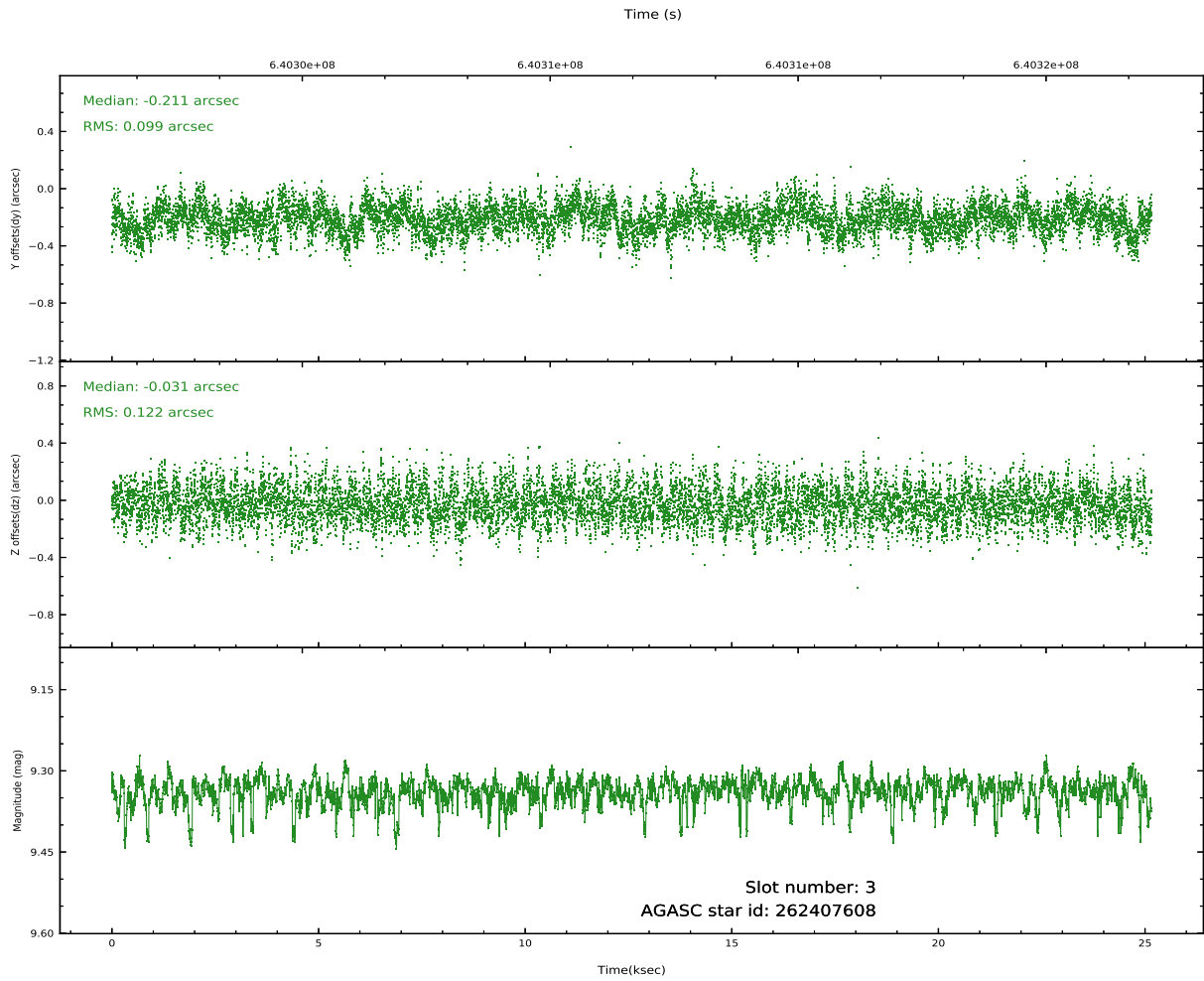
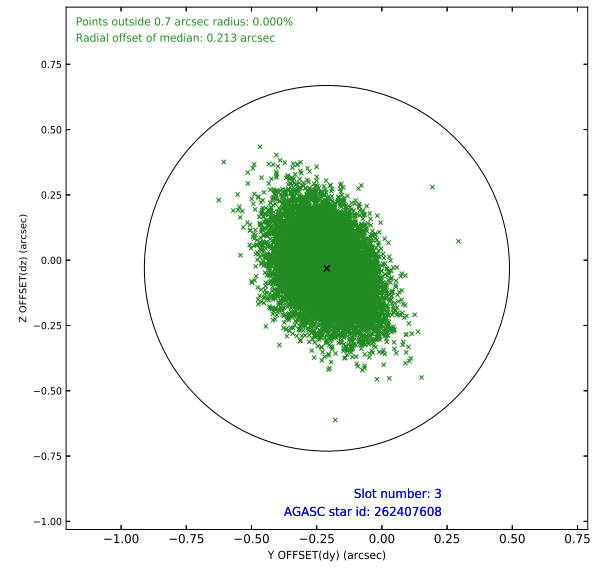
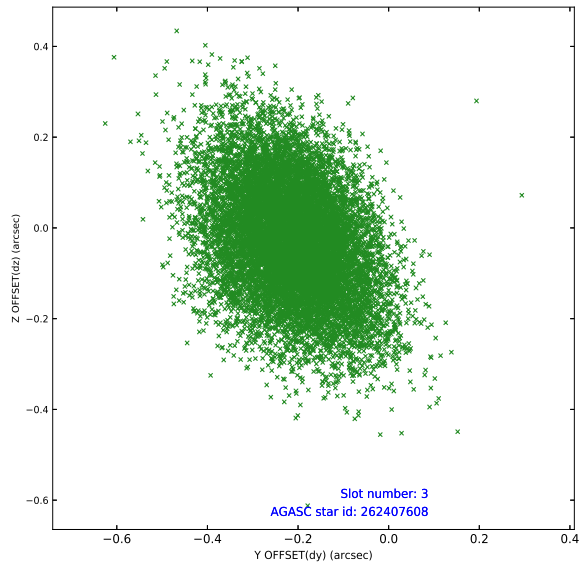


Slot Statistics

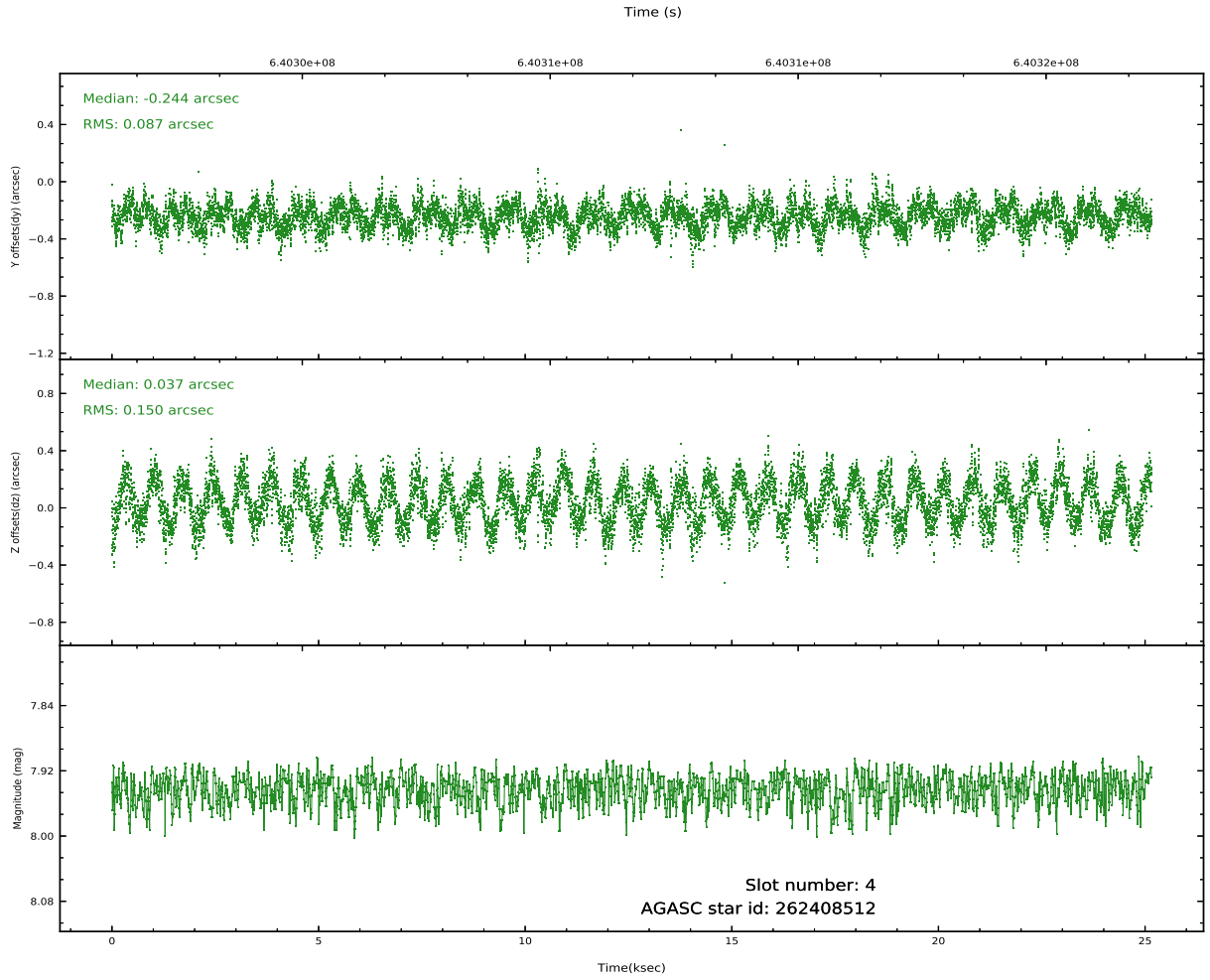
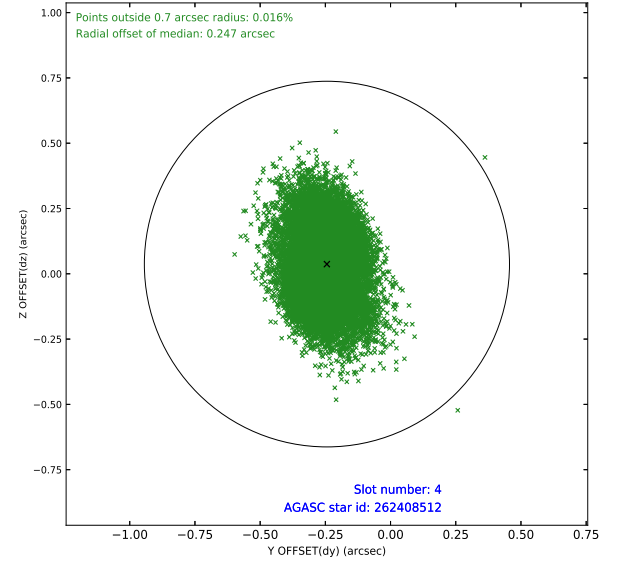
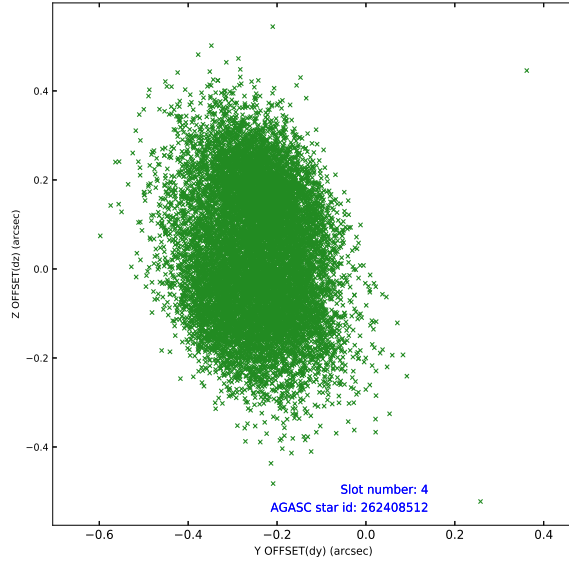
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.12	6137	1.000	0.329	-0.253	0.029	0.043	0.000000	0.000000	928.66	-1132
1	FID		ACIS-I-5	7.11	6136	1.000	-0.442	0.252	0.016	0.034	0.000000	0.000000	-1820.05	765
2	FID		ACIS-I-6	7.18	6137	1.000	0.018	0.068	0.022	0.038	0.000000	0.000000	393.91	1409
3	GUIDE	used	262407608	9.34	12250	1.000	-0.211	-0.031	0.165	0.276	207.378401	26.435507	-781.38	556
4	GUIDE	used	262408512	7.94	12271	1.000	-0.244	0.037	0.186	0.288	207.800210	27.128796	-1944.16	-2034
5	GUIDE	used	262408936	9.67	12243	1.000	0.229	0.043	0.215	0.367	207.154731	26.726554	13.60	-435
6	GUIDE	used	262409552	8.16	12267	1.000	0.054	-0.010	0.144	0.255	206.584269	27.192805	1957.64	-1981
7	GUIDE	used	262275256	7.71	12271	1.000	0.181	-0.051	0.140	0.250	206.467522	27.226414	2338.90	-2077

2.4 Star Slots

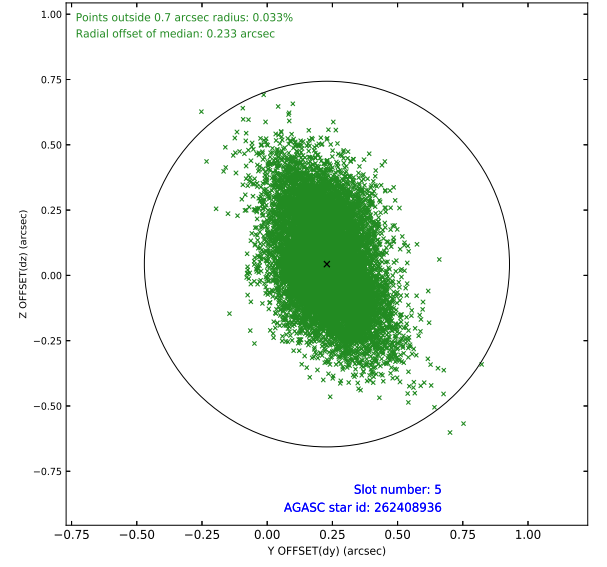
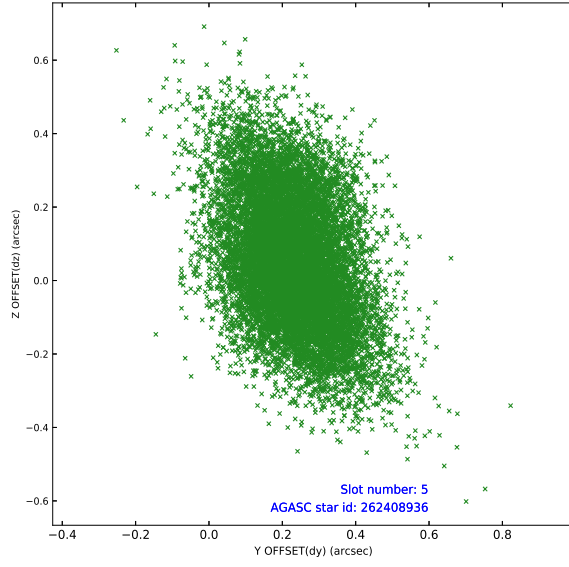
2.4.1 Slot 3



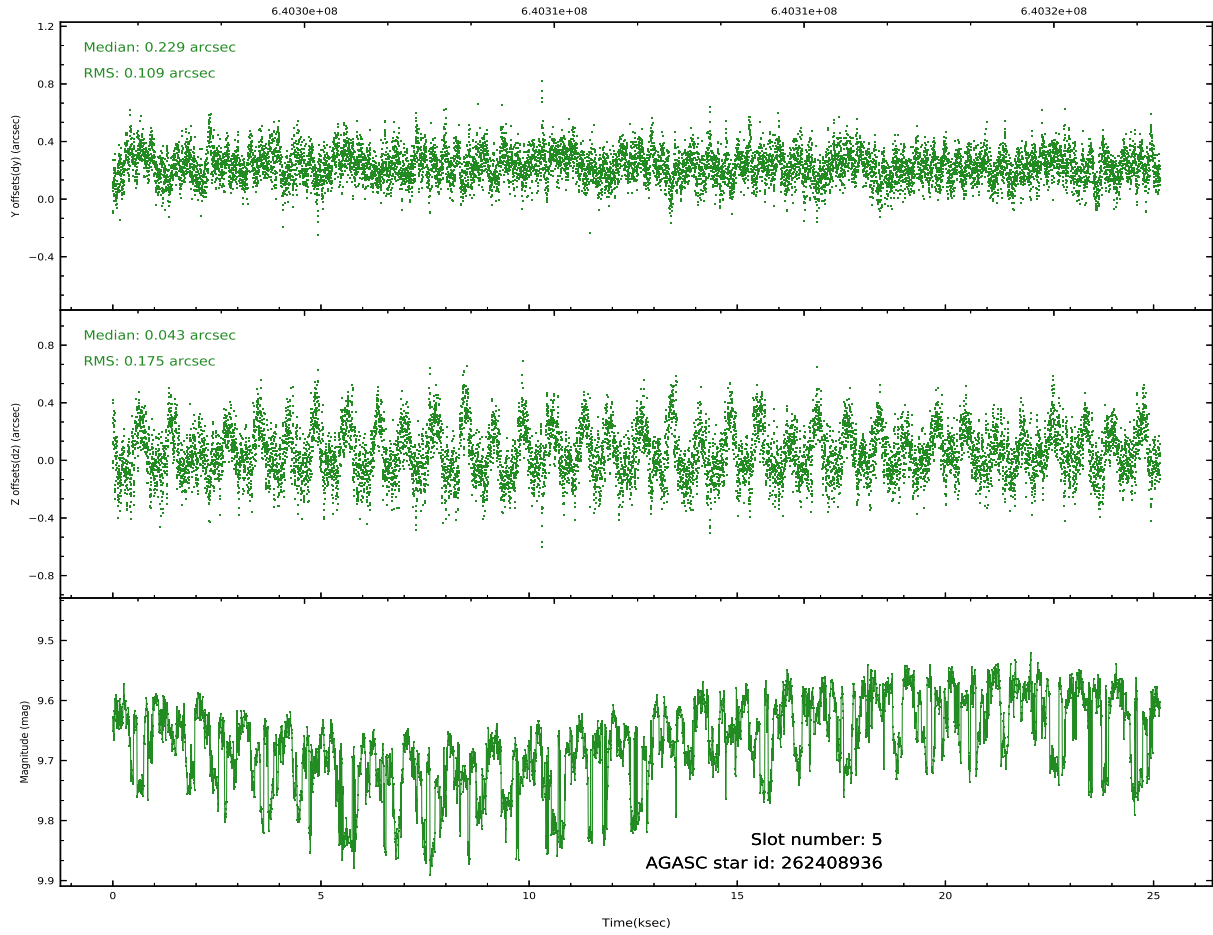
2.4.2 Slot 4



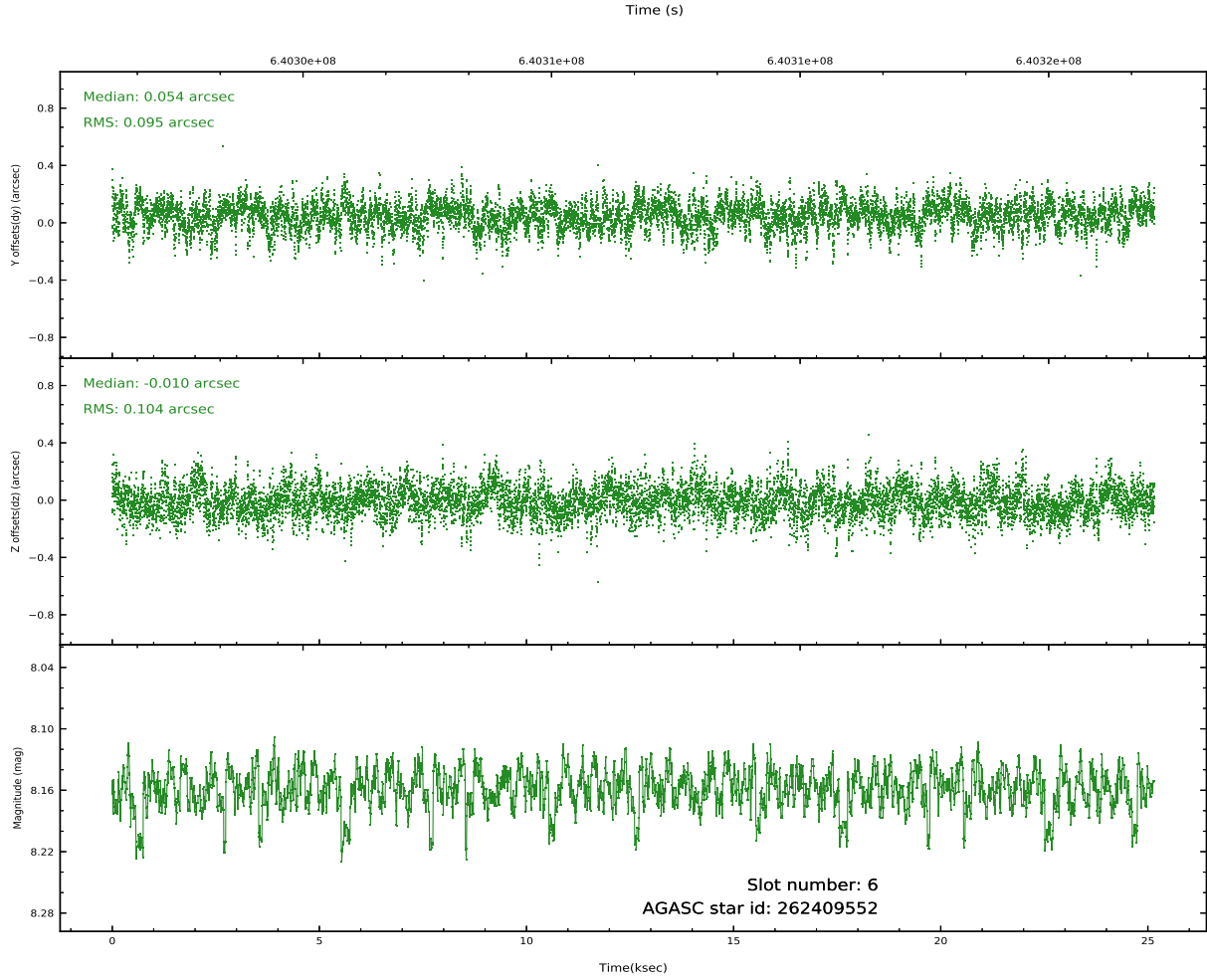
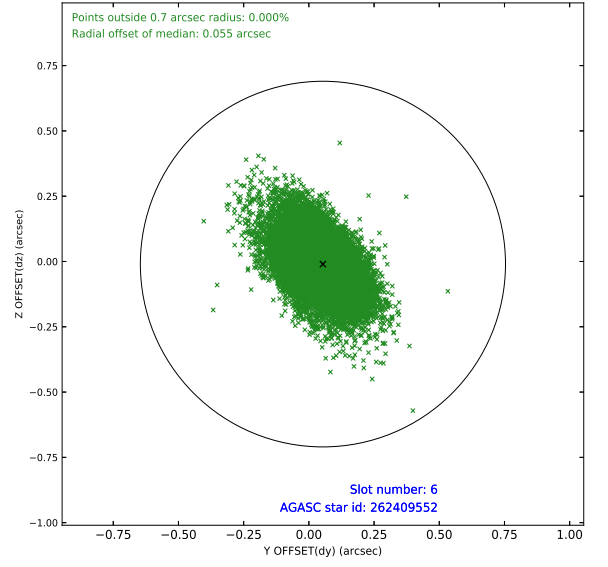
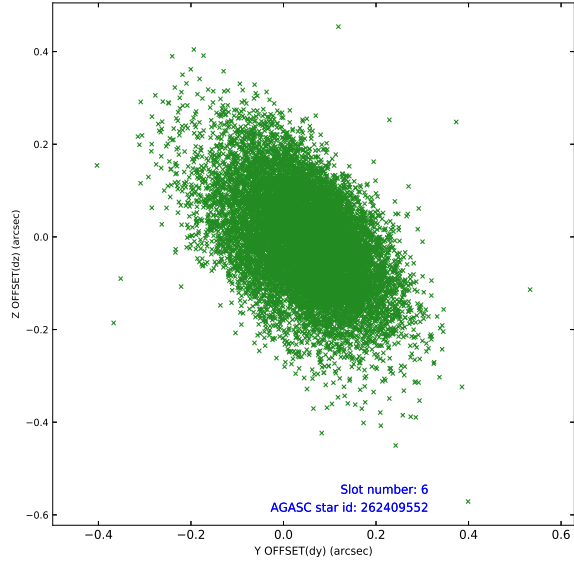
2.4.3 Slot 5



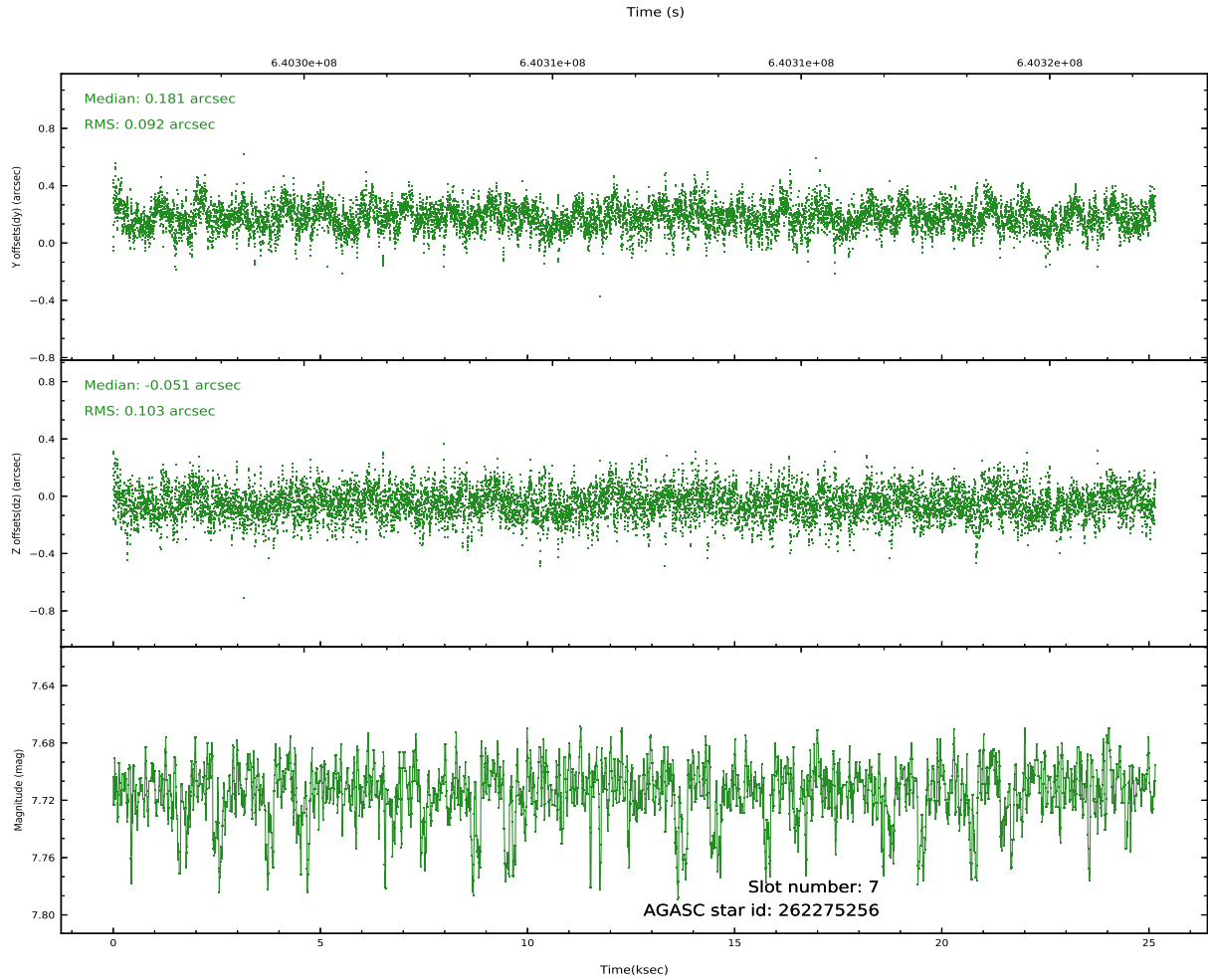
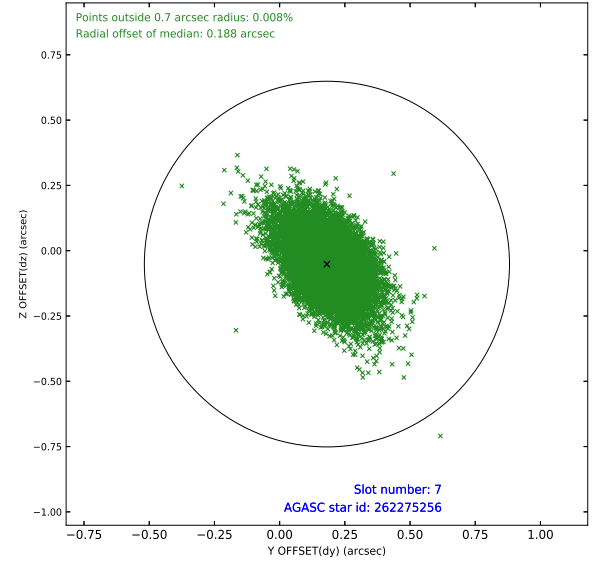
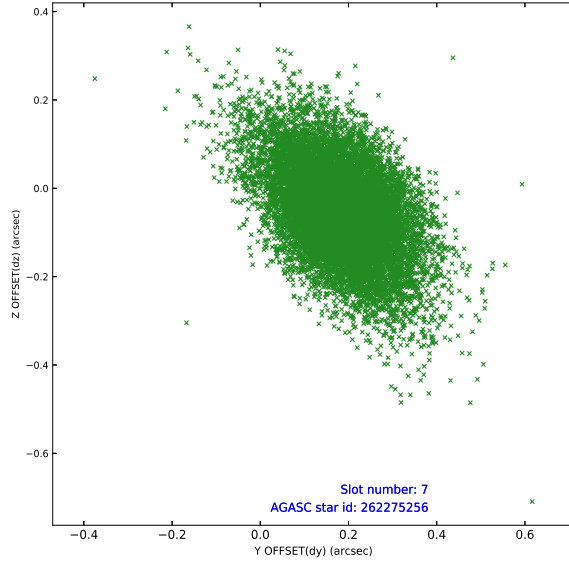
Time (s)



2.4.4 Slot 6

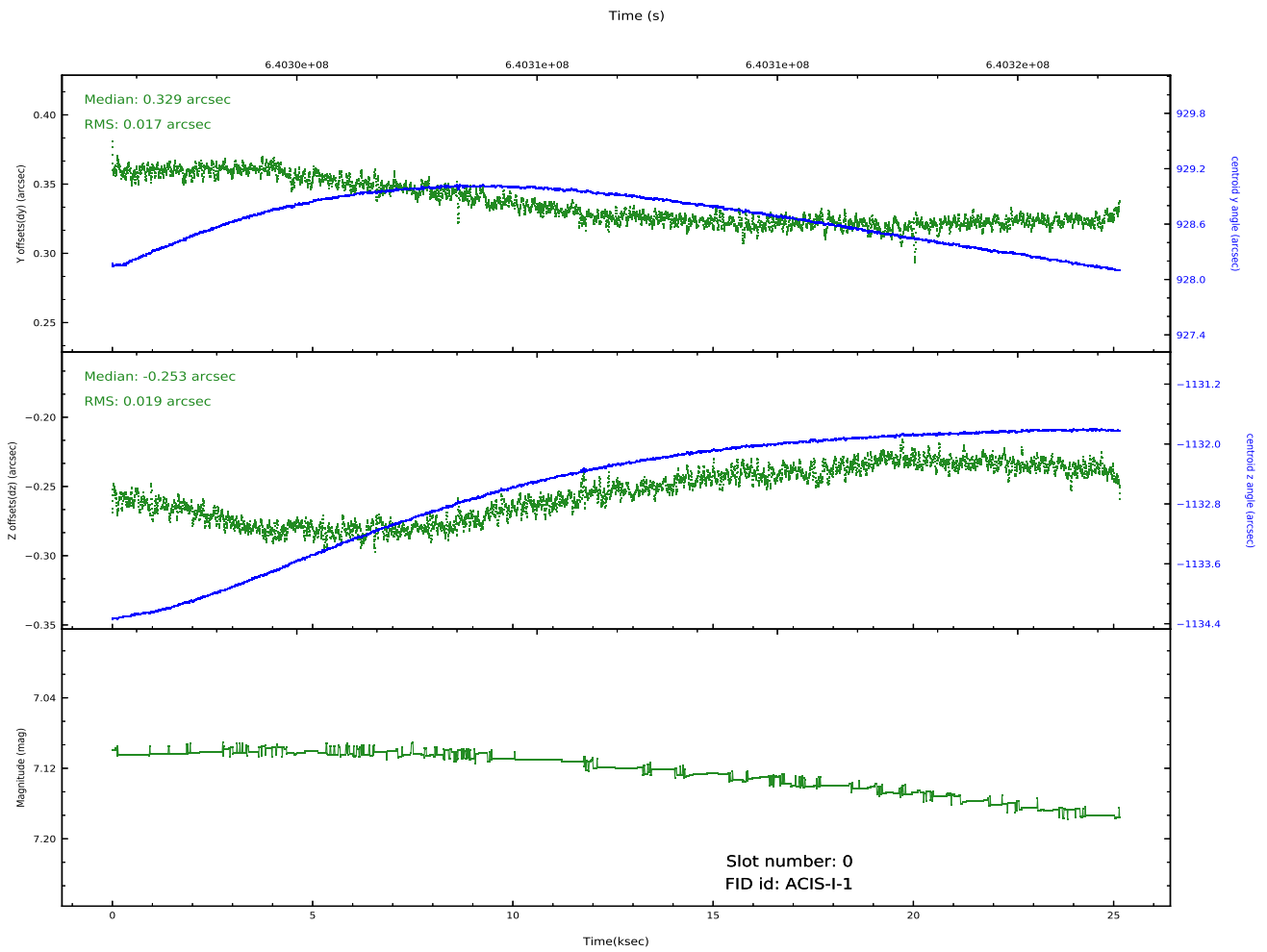
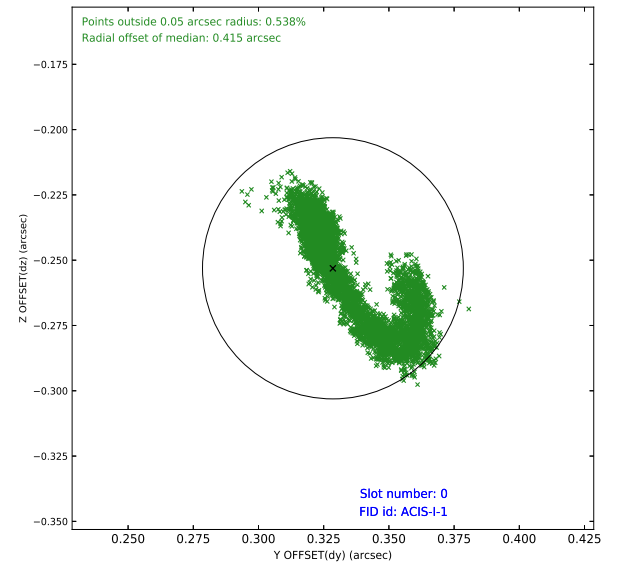
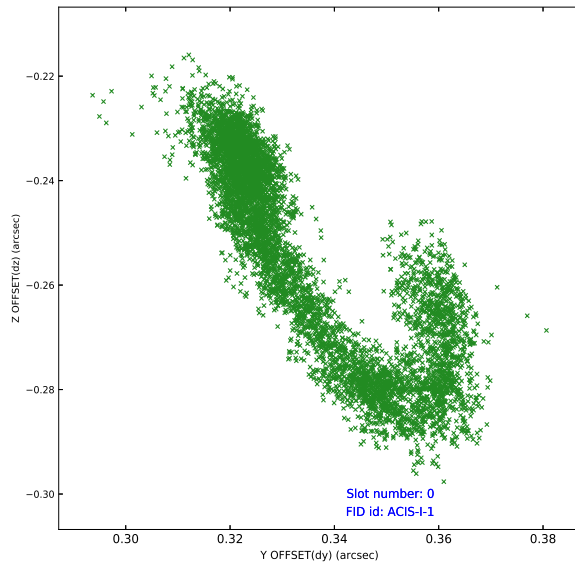


2.4.5 Slot 7

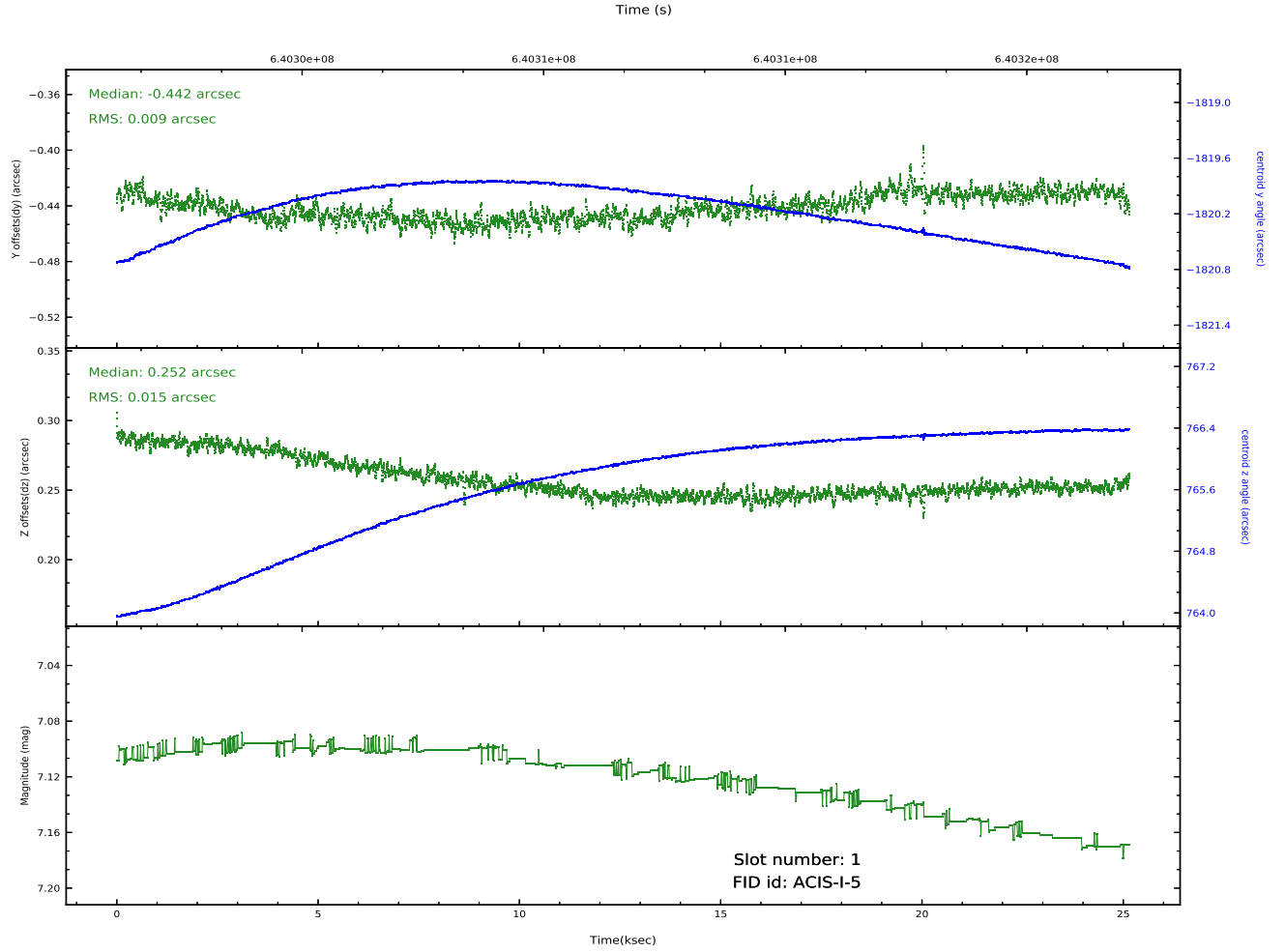
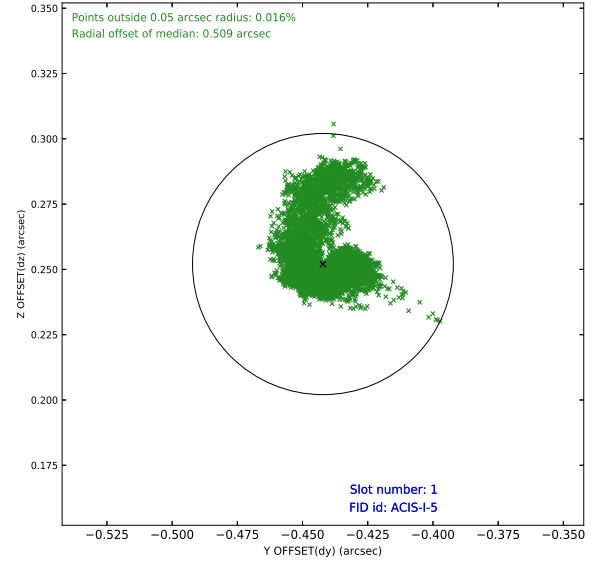
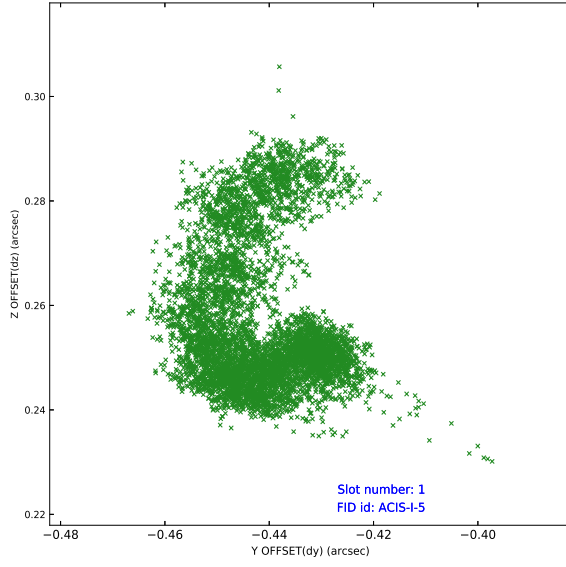


2.5 FID Slots

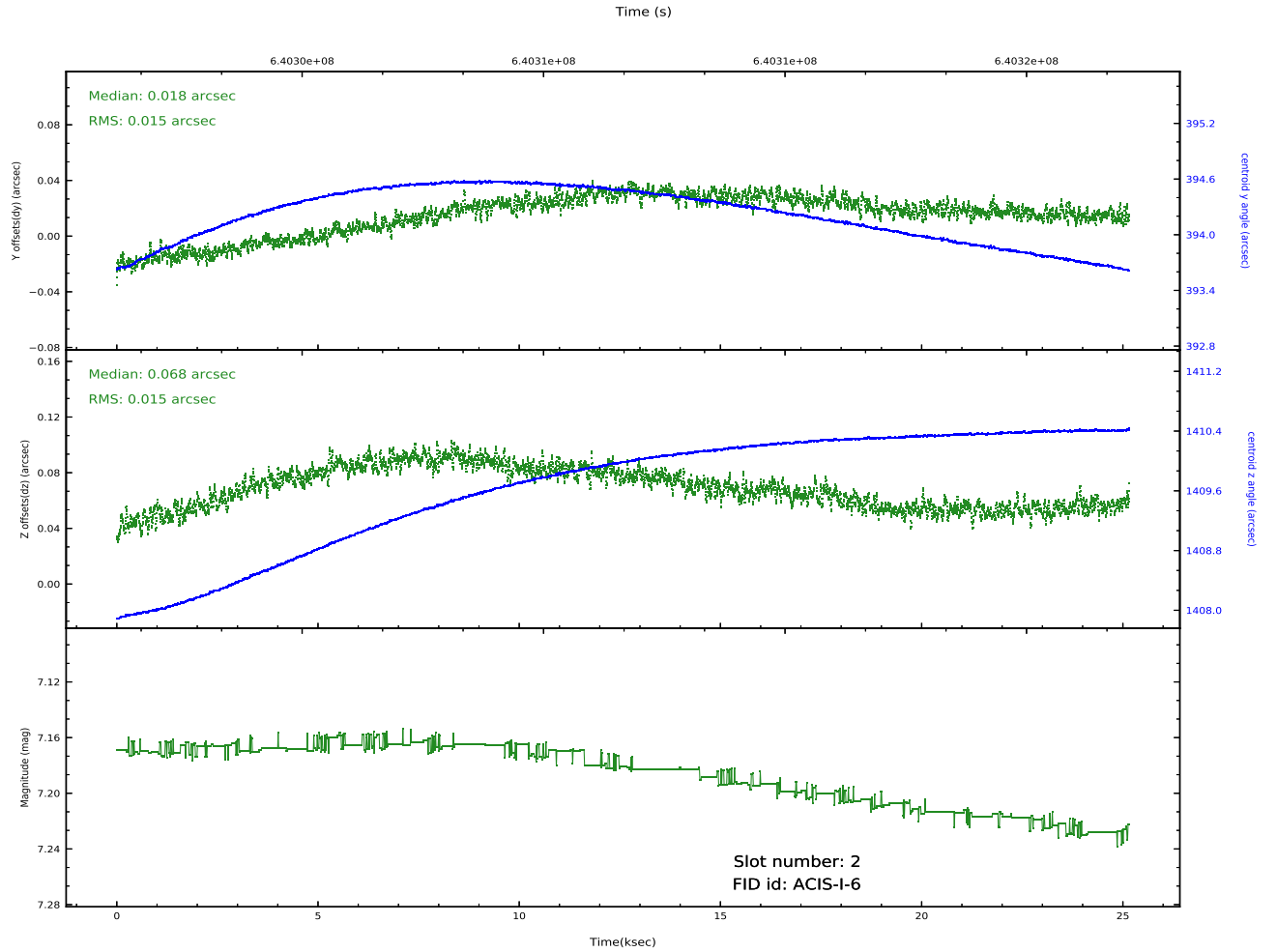
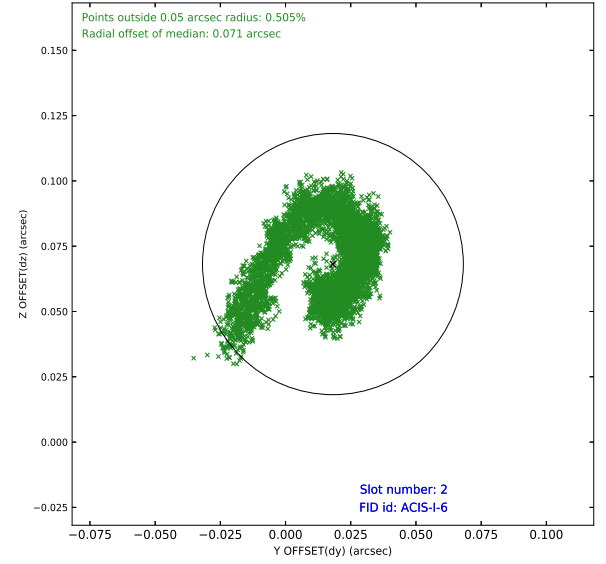
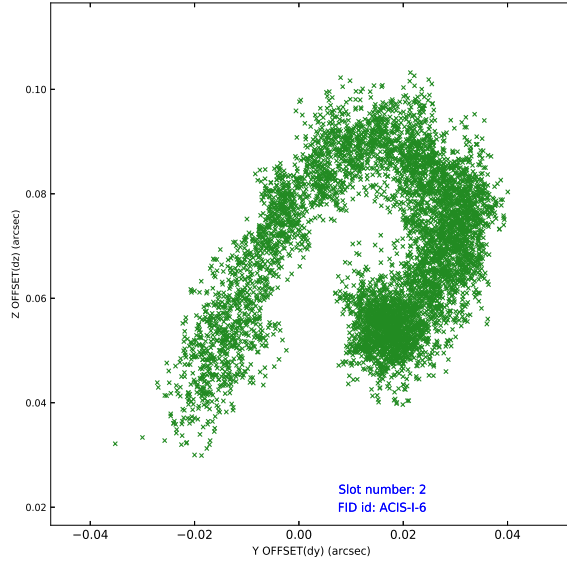
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2020.10.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	25.06314552021

A.2 Comments

Window constraint was met.