

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 19432 - L2 Version 2
Chandra X-Ray Center

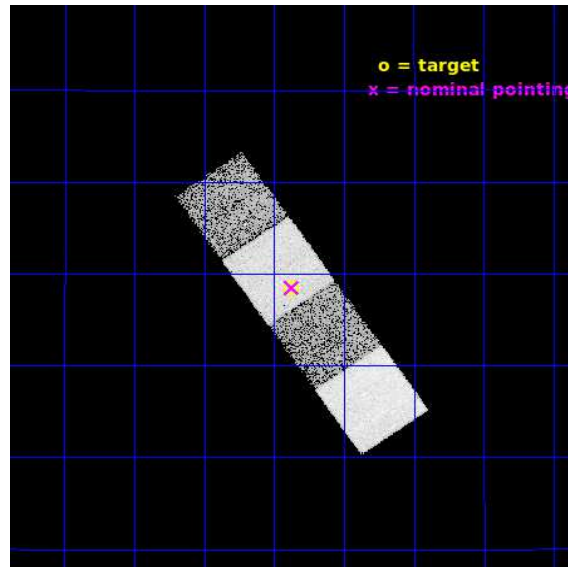
L2 Processing Date : Oct 25 2020

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

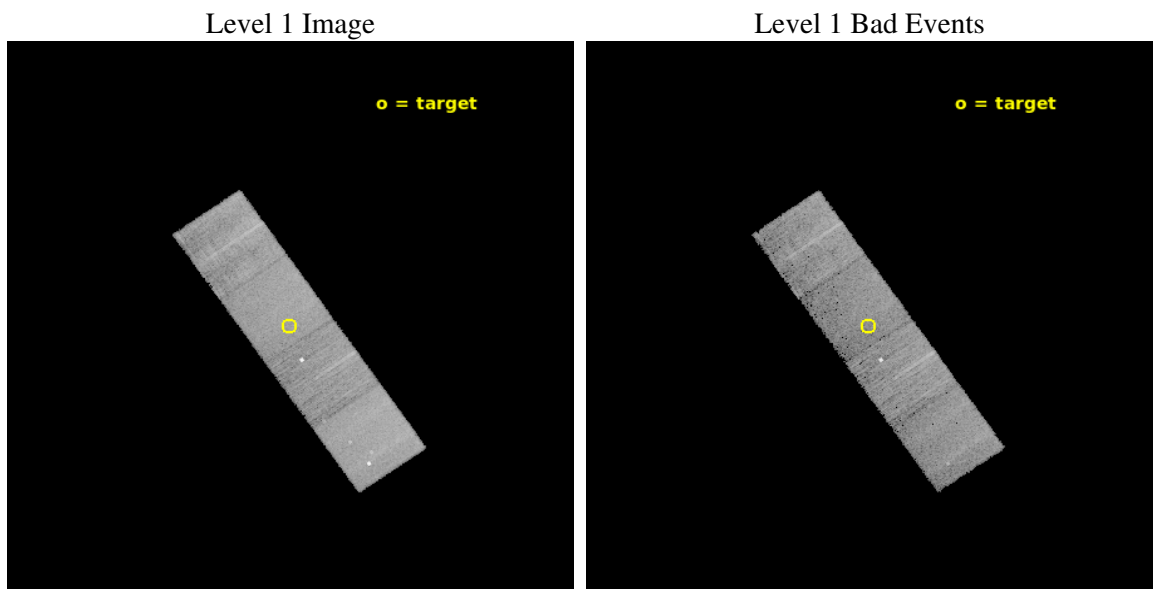
seq_num	601389	Sequence number
obs_id	19432	Observation id
title	Spiral galaxies of the Virgo cluster	Proposal title
observer	Roberto Soria	Principal investigator
object	NGC 4222	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	184.09375	Observer's specified target RA [deg]
dec_targ	13.307056	Observer's specified target Dec [deg]
ra_nom	184.09328753204	Nominal RA [deg]
dec_nom	13.308278366087	Nominal Dec [deg]
roll_nom	235.26863266146	Nominal Roll [deg]
revision	2	Processing version of data
ontime	8060.000062108	Sum of GTIs [s]
livetime	7954.6902276109	Livetime [s]
ontime5	8060.000062108	Sum of GTIs [s]
ontime6	8056.8589917421	Sum of GTIs [s]
ontime7	8060.000062108	Sum of GTIs [s]
ontime8	8060.000062108	Sum of GTIs [s]
l2events	86032	Number of level 2 events



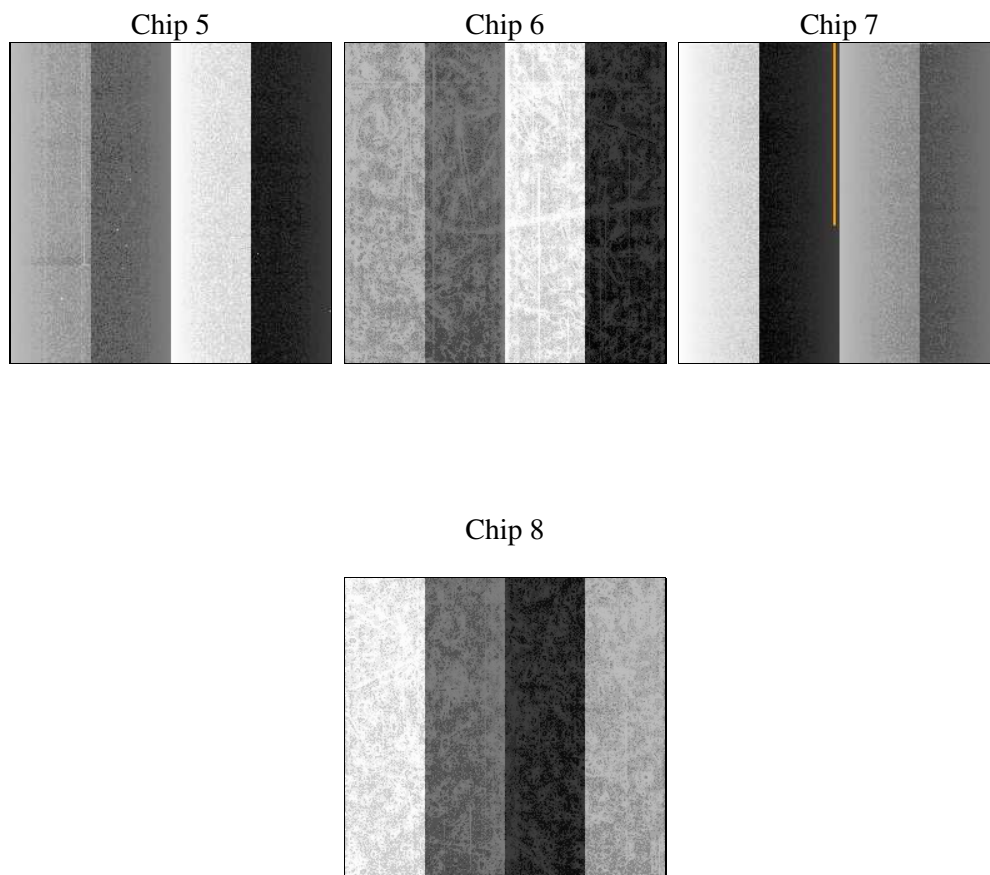
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	8000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	8060.000062108	Sum of GTIs [s]
caldsver	4.9.3	 	ontime5	8060.000062108	Sum of GTIs [s]
date	2020-10-25T21:58:26	Date and time of file creation	ontime6	8056.8589917421	Sum of GTIs [s]
revision	2	Processing version of data	ontime7	8060.000062108	Sum of GTIs [s]
			ontime8	8060.000062108	Sum of GTIs [s]
			l1events	311919	Number of level 1 events

2.1.4 Events

	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	96208	64534	76213	74964
rejected events	49701	57237	43423	56633
rejected %	51%	88%	56%	75%

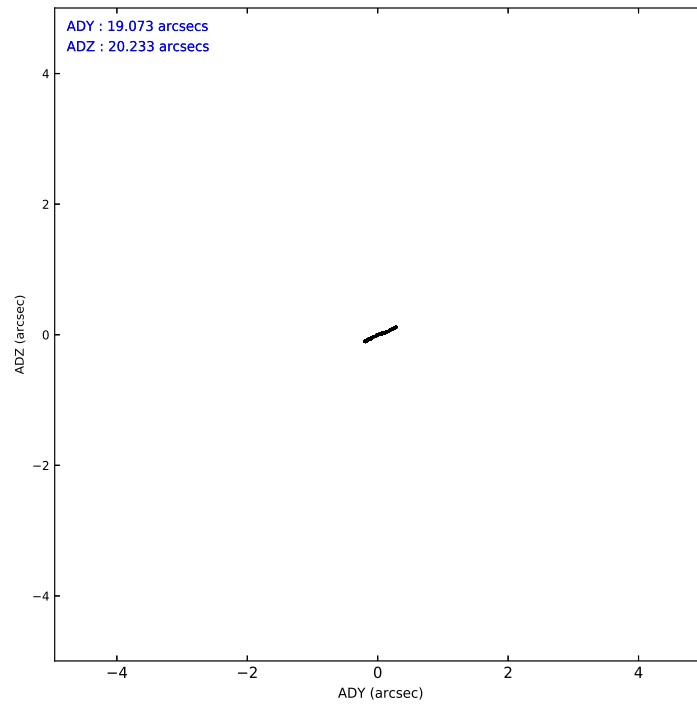
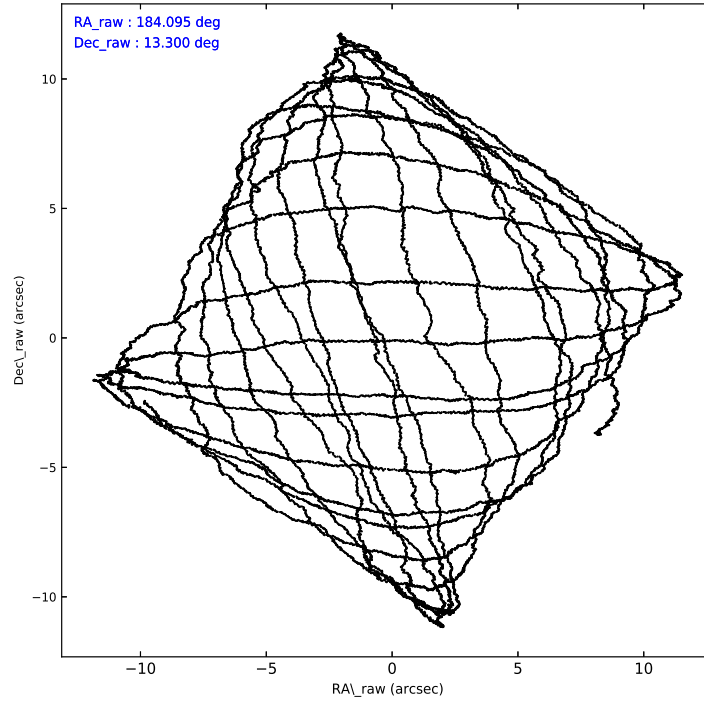
	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	4117	2659	2731	5260
	4%	4%	3%	7%
grade 1 events	446	1429	125	44
	0%	2%	0%	0%
grade 2 events	14380	1754	6858	4441
	14%	2%	8%	5%
grade 3 events	1259	605	2633	1892
	1%	0%	3%	2%
grade 4 events	1327	566	2445	1750
	1%	0%	3%	2%
grade 5 events	5986	2648	7440	4071
	6%	4%	9%	5%
grade 6 events	25471	1721	18143	5002
	26%	2%	23%	6%
grade 7 events	43222	53152	35838	52504
	44%	82%	47%	70%

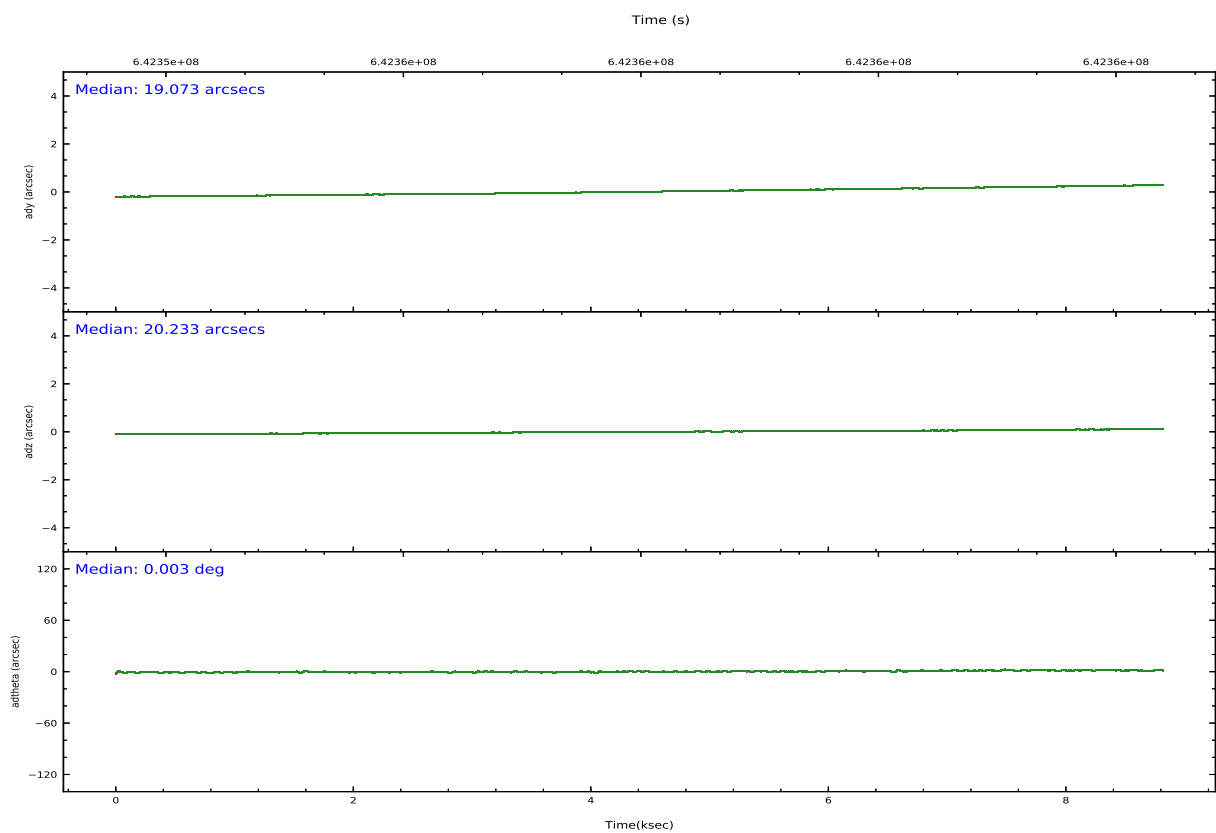
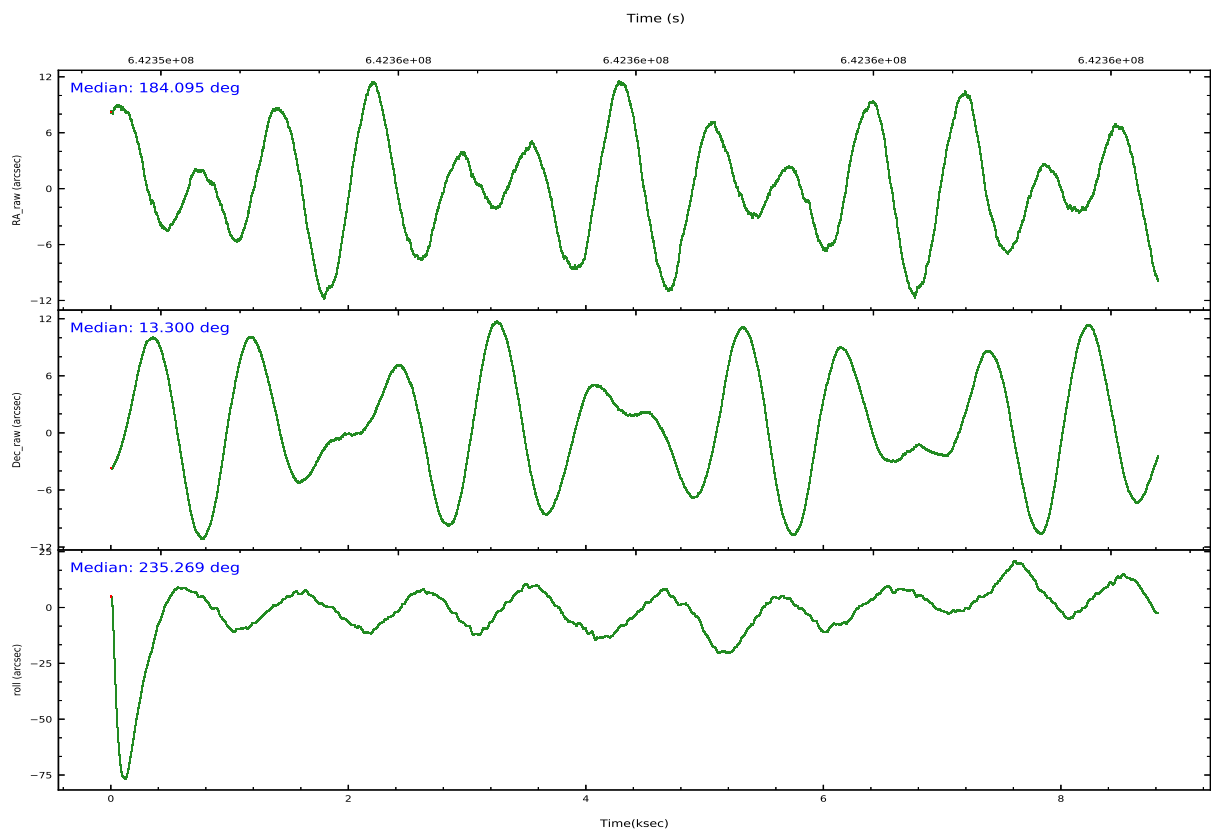
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-5678	ACIS-5678
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	184.097001	184.09328753204
[deg] Pointing Dec	13.327863	13.308278366087
[deg] Pointing Roll	235.107517	235.26863266146
[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)	642354398.184000	642353202.53736
Observation start date	2018-05-10T15:45:29	2018-05-10T15:26:42
[s] Observation end time (MET)	642362398.184000	642362591.0254101
Observation end date	2018-05-10T17:58:49	2018-05-10T18:03:11
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar version number	8	8
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
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



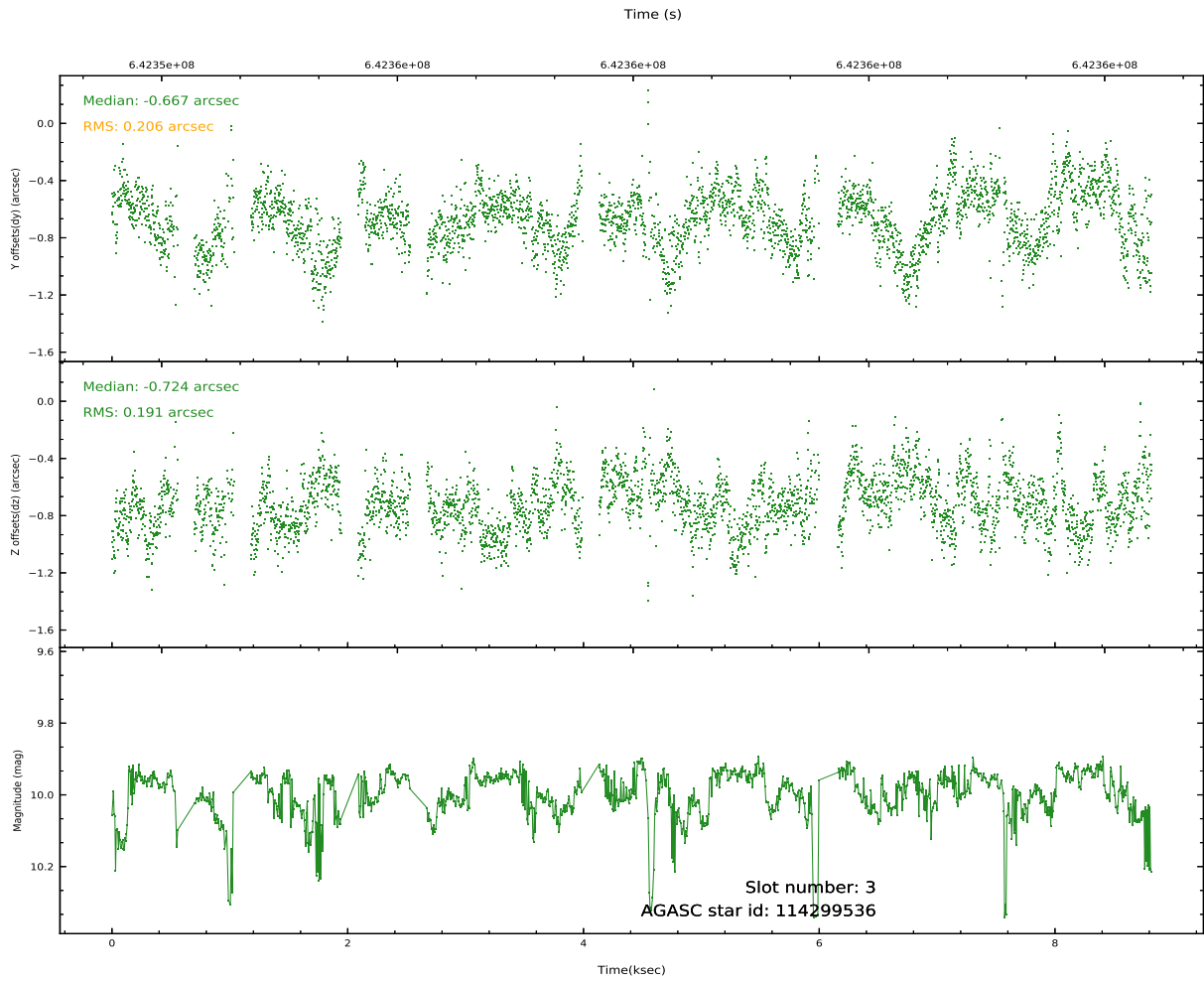
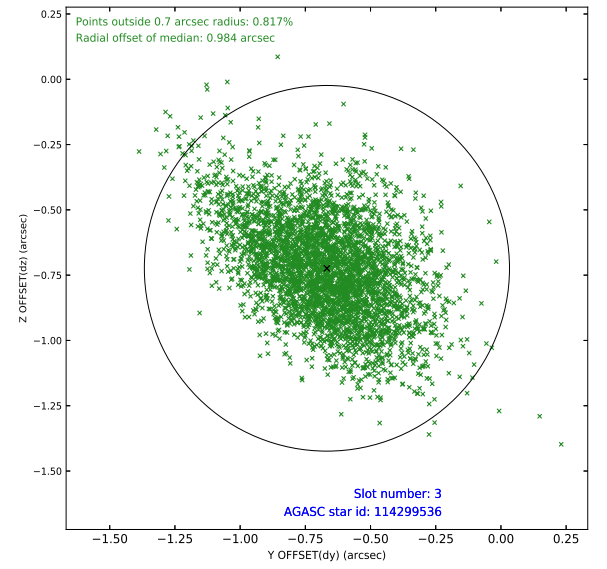
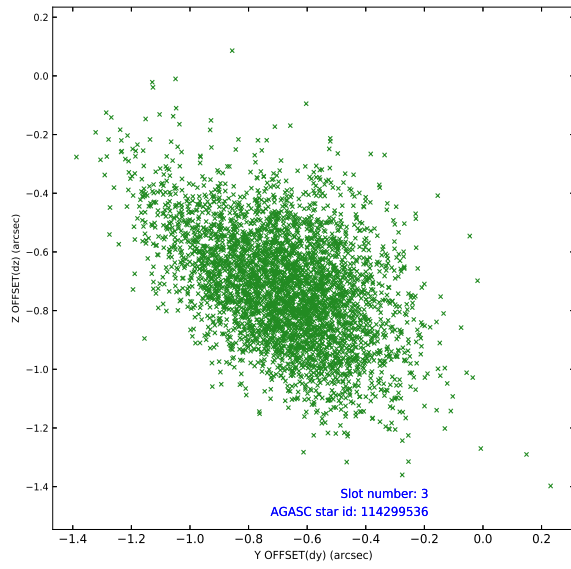


Slot Statistics

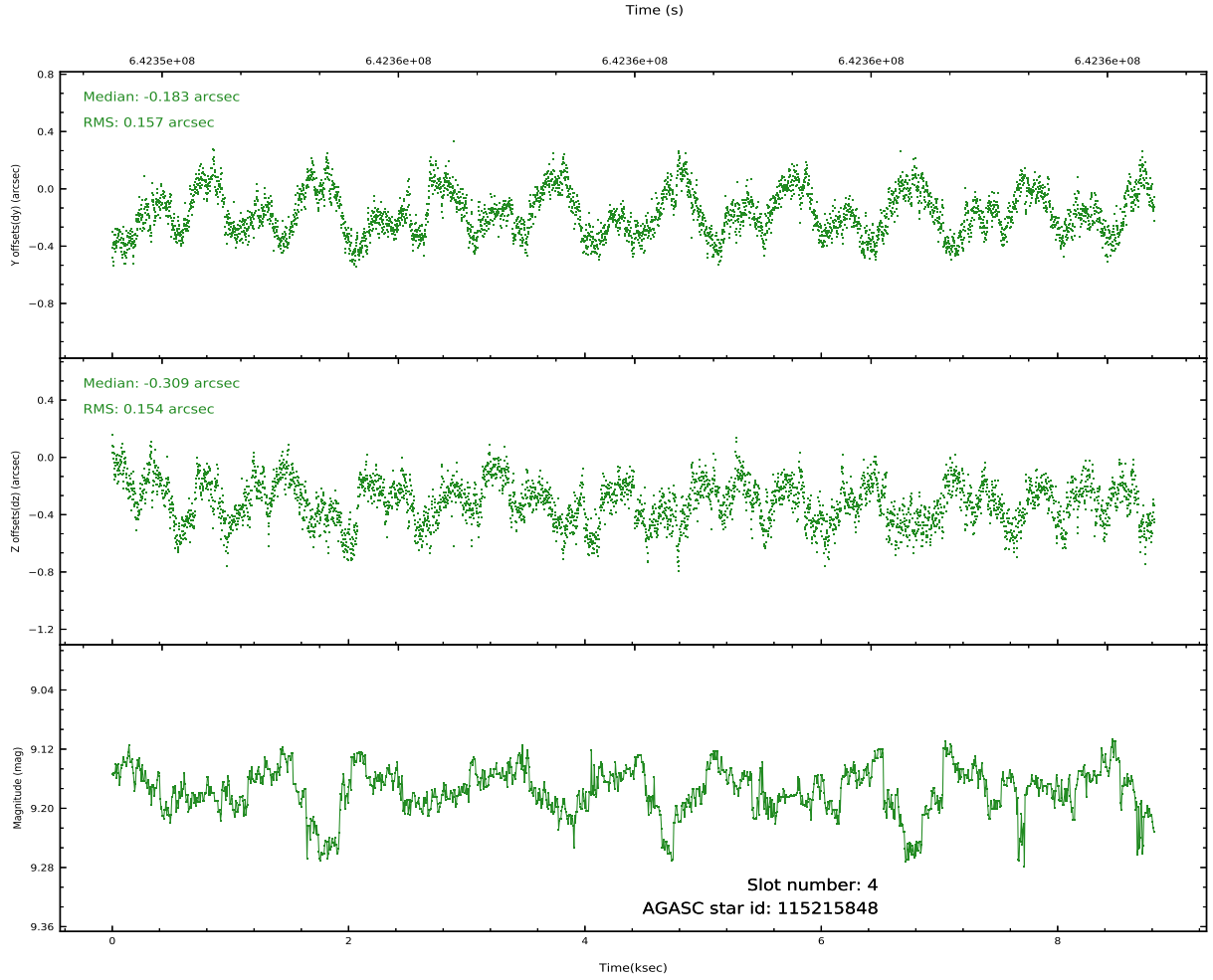
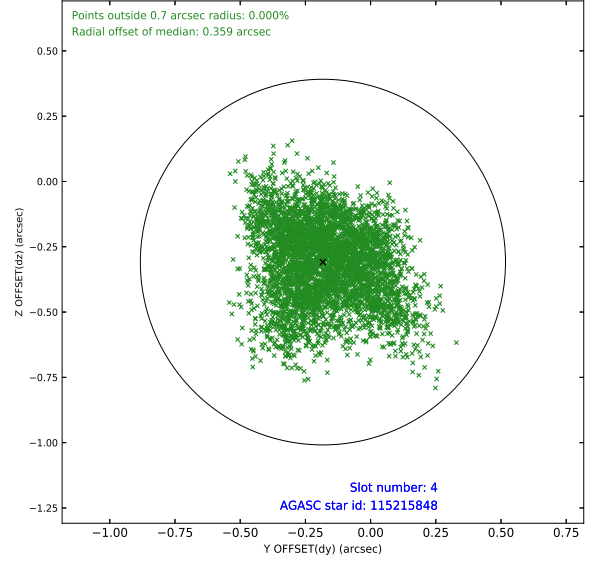
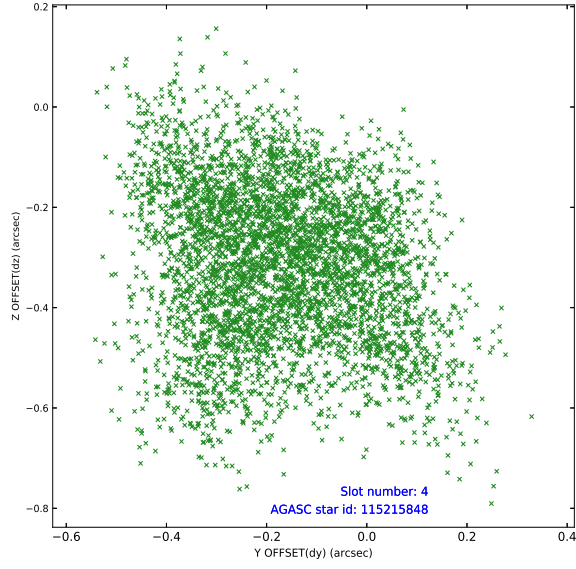
	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	m
	FID		ACIS-S-2	7.13	2152	1.000	0.098	-0.108	0.008	0.014	0.000000	0.000000	-772.30	-17
	FID		ACIS-S-4	7.25	2152	1.000	0.150	-0.018	0.011	0.021	0.000000	0.000000	2140.98	1
	FID		ACIS-S-5	7.24	2151	1.000	-0.277	0.135	0.010	0.015	0.000000	0.000000	-1824.48	1
	BAD	used	114299536	9.99	3794	1.000	-0.667	-0.724	0.287	0.505	183.234720	13.139308	2283.32	-20
	GUIDE	used	115215848	9.17	4296	1.000	-0.183	-0.309	0.237	0.369	184.751418	13.367171	-1428.97	17
	GUIDE	used	115216896	8.52	4302	1.000	0.497	-0.184	0.142	0.258	184.169439	13.297075	-53.87	2
	GUIDE	used	115217776	8.82	4299	1.000	-0.017	0.487	0.201	0.309	184.204027	12.539164	2113.94	19
	GUIDE	used	115218080	9.43	4290	1.000	0.293	0.654	0.222	0.358	184.130022	12.510081	2349.40	17

2.4 Star Slots

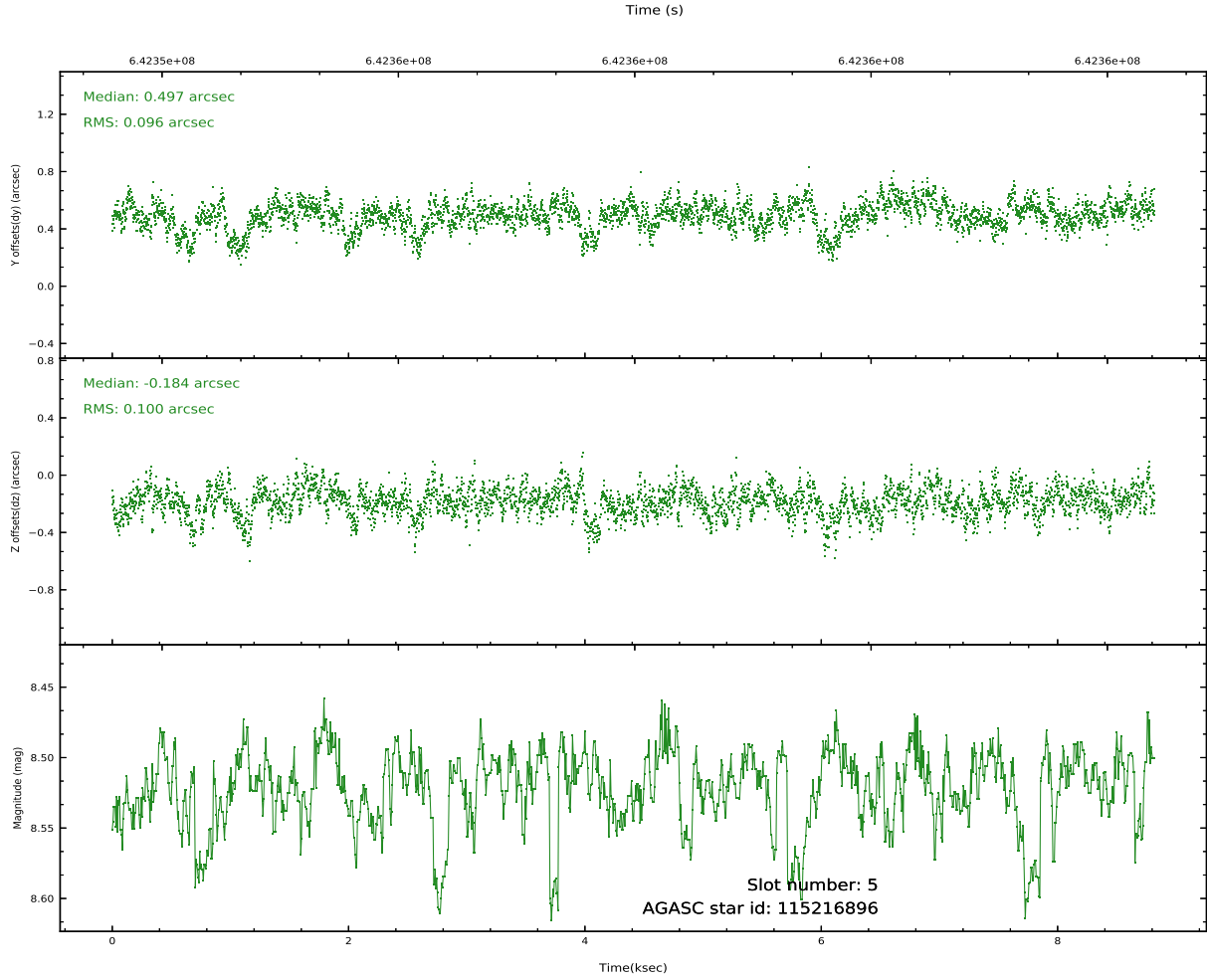
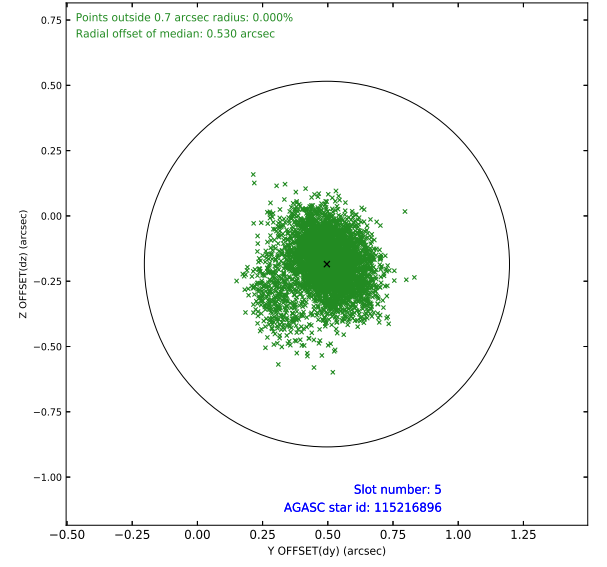
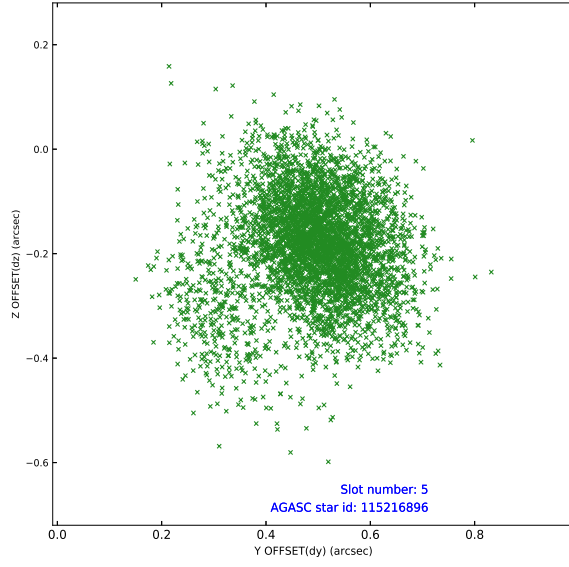
2.4.1 Slot 3



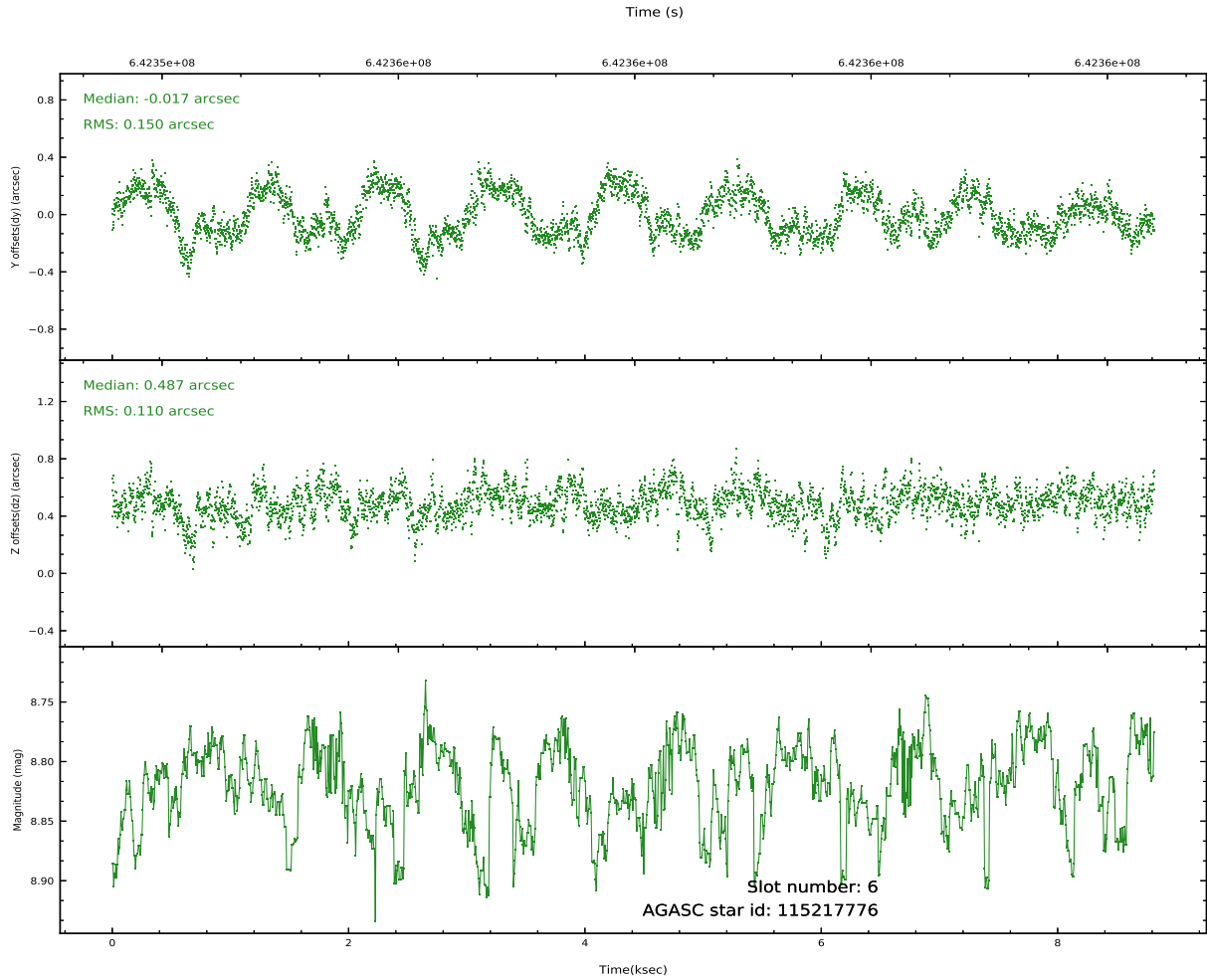
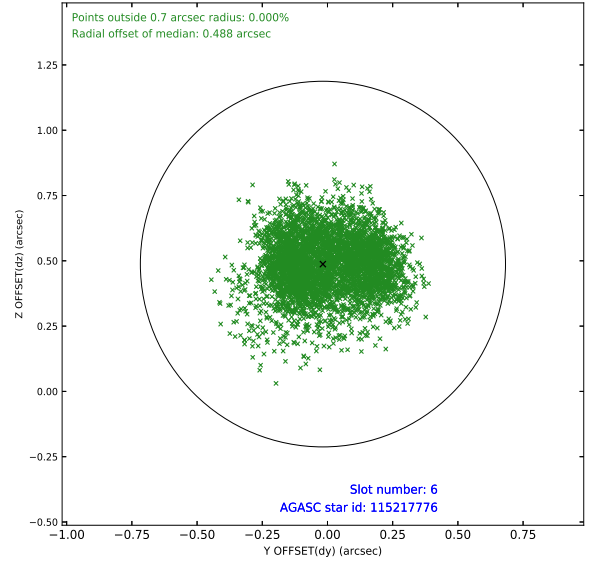
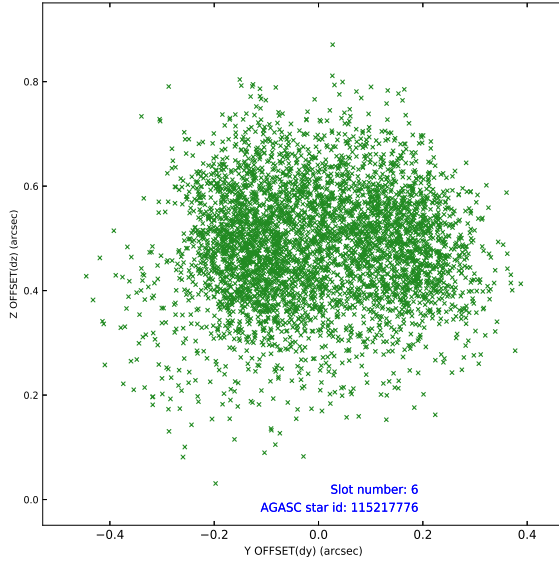
2.4.2 Slot 4



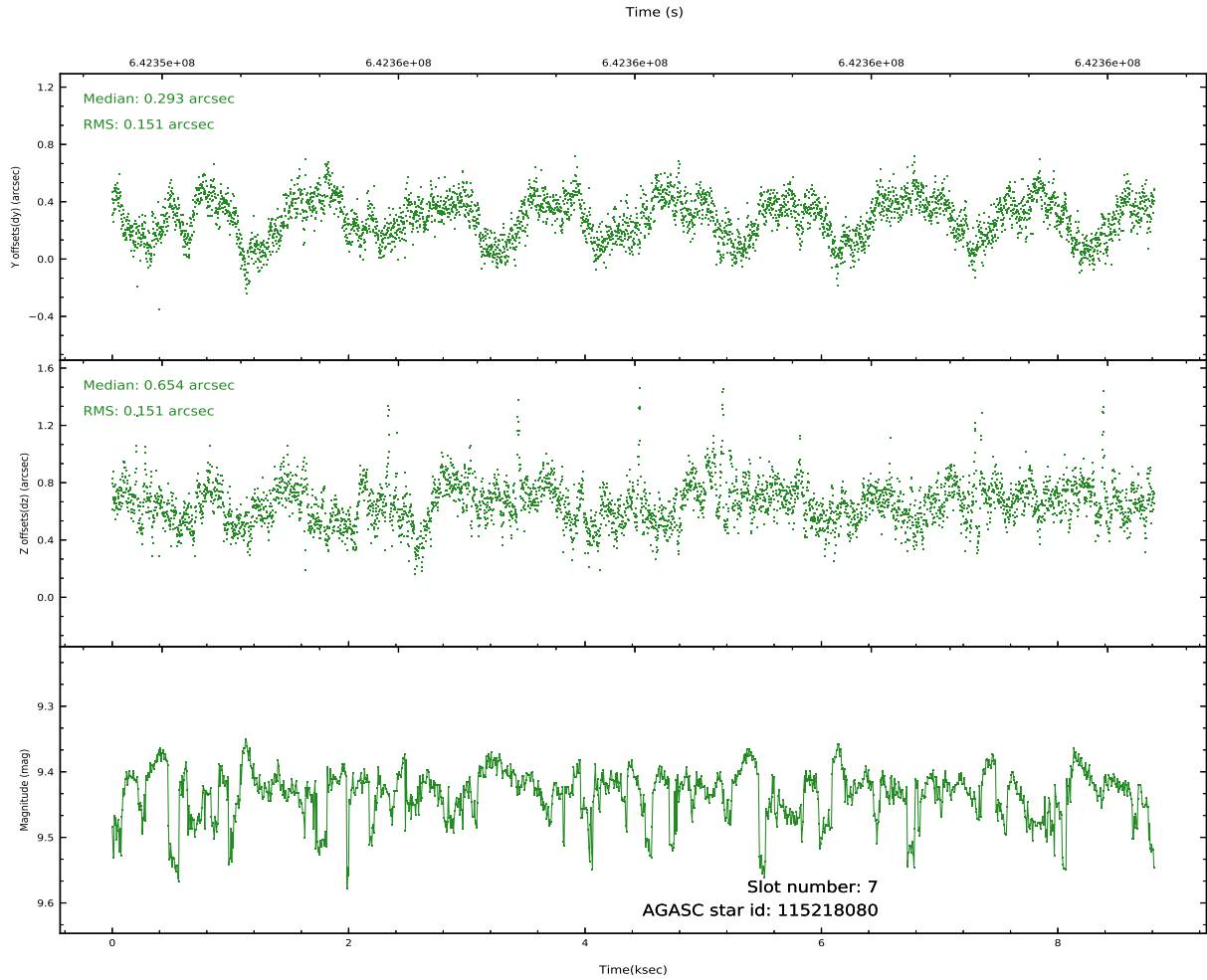
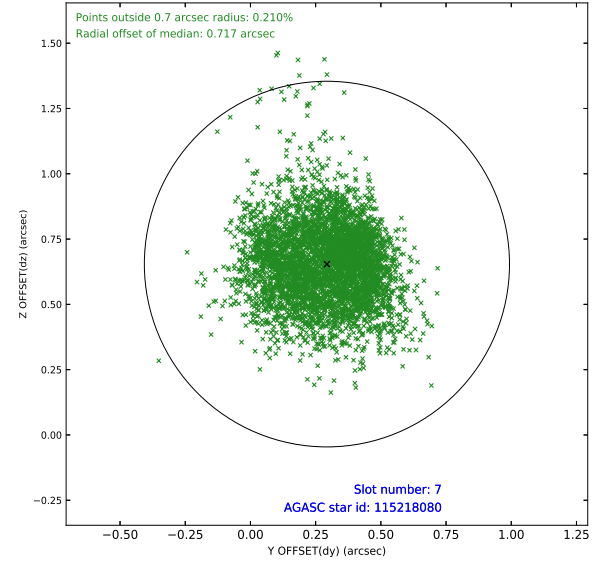
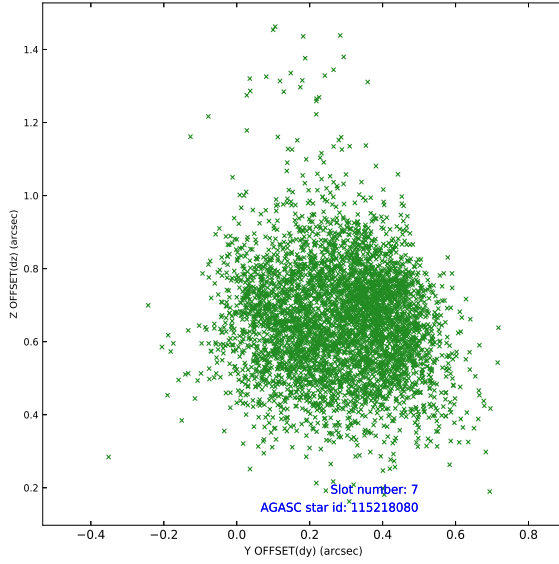
2.4.3 Slot 5



2.4.4 Slot 6

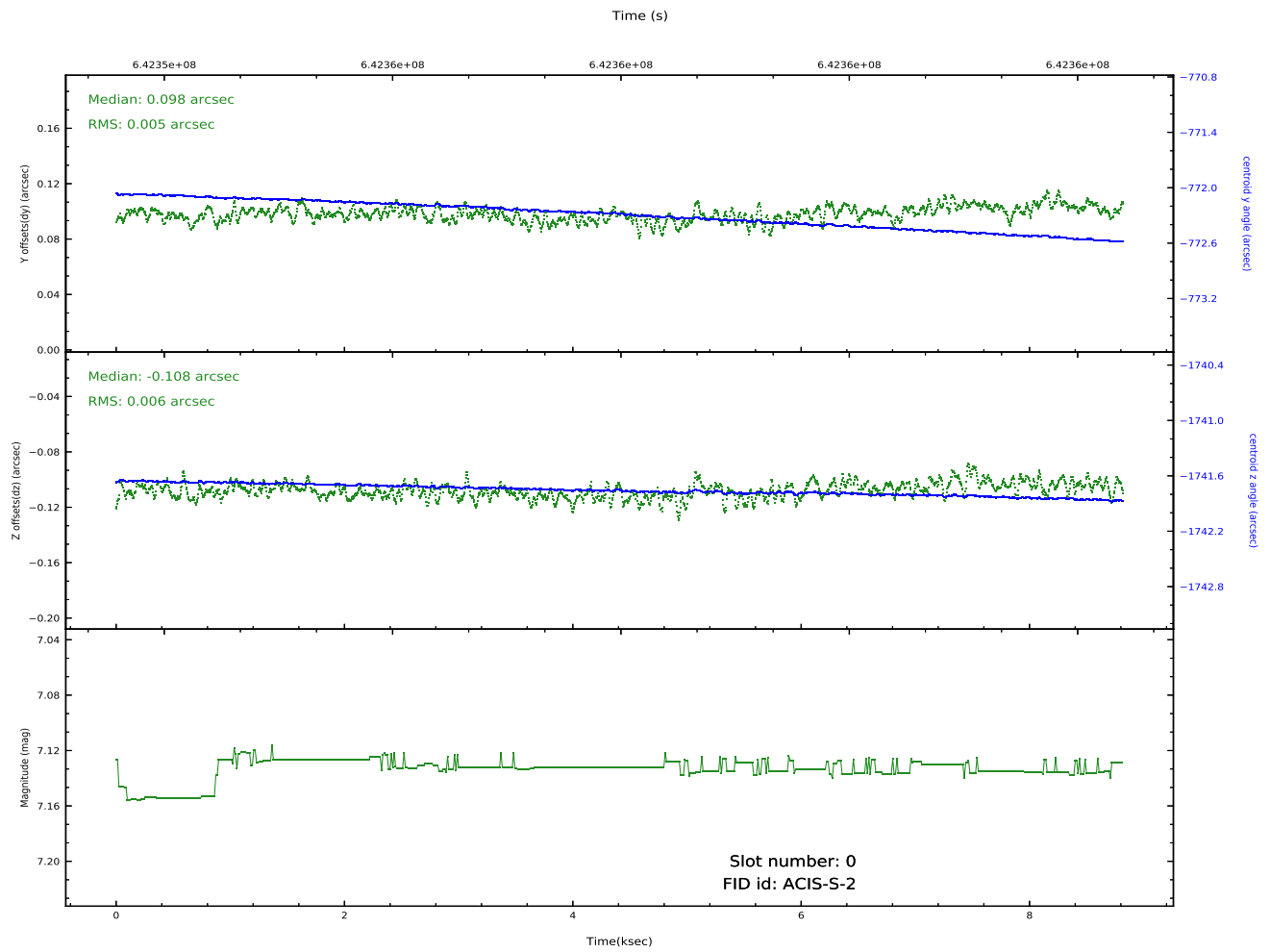
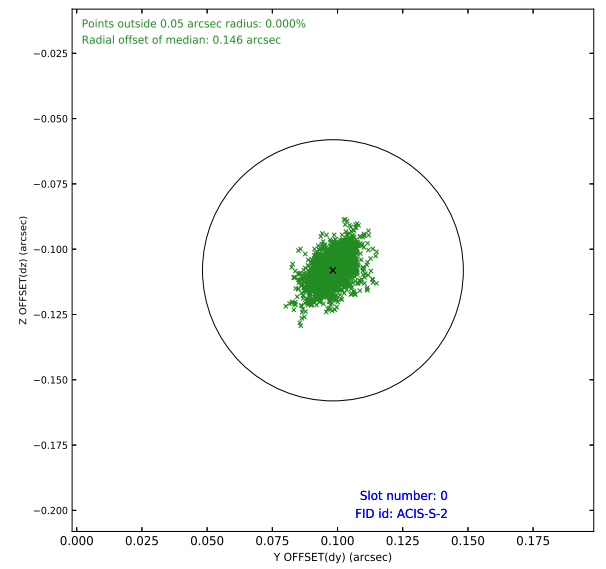
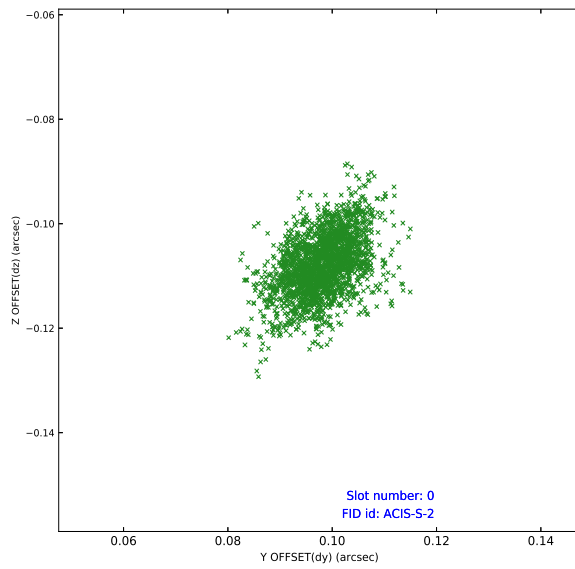


2.4.5 Slot 7

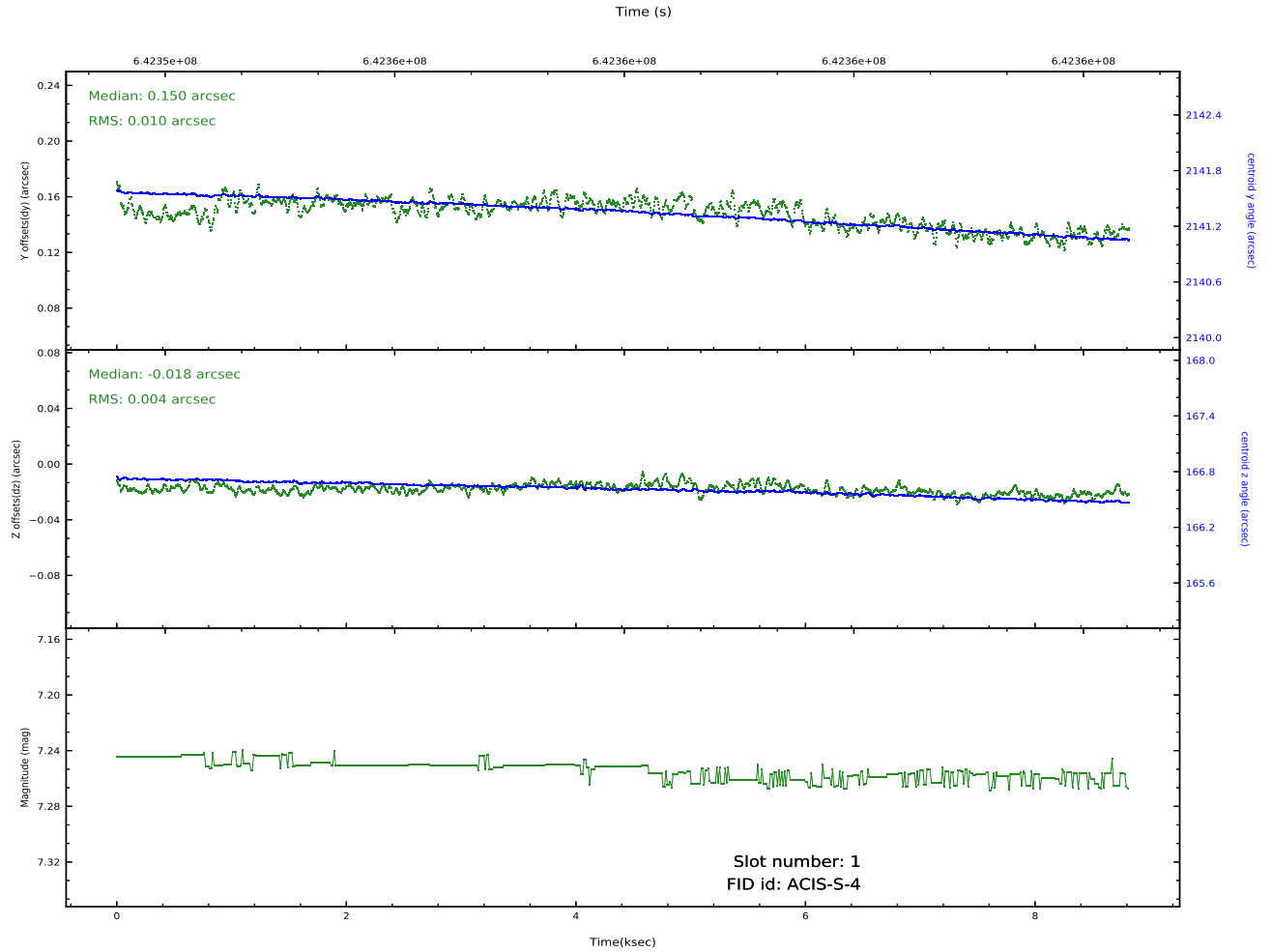
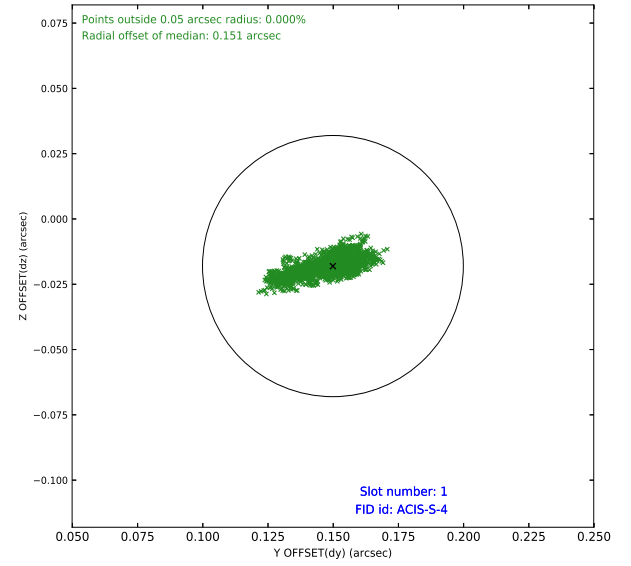
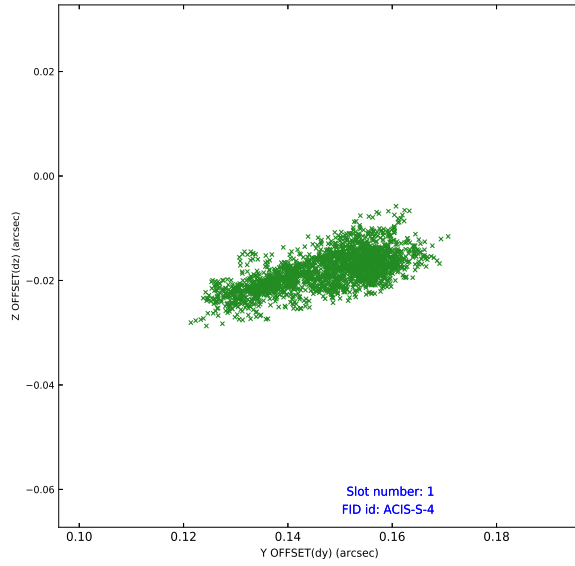


2.5 FID Slots

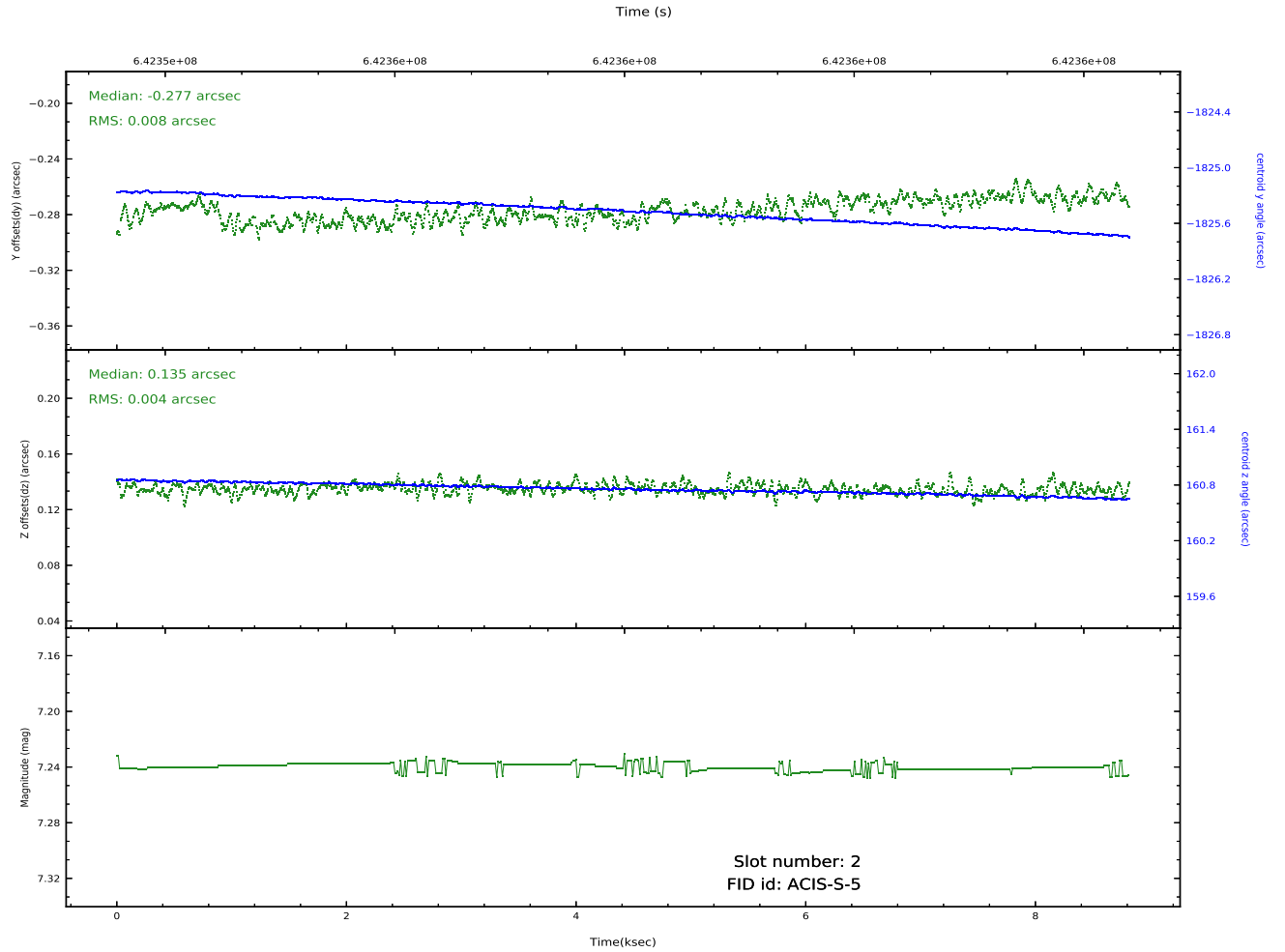
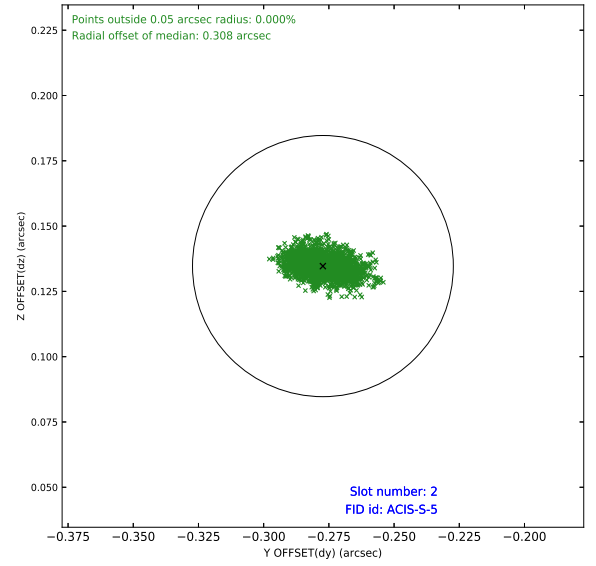
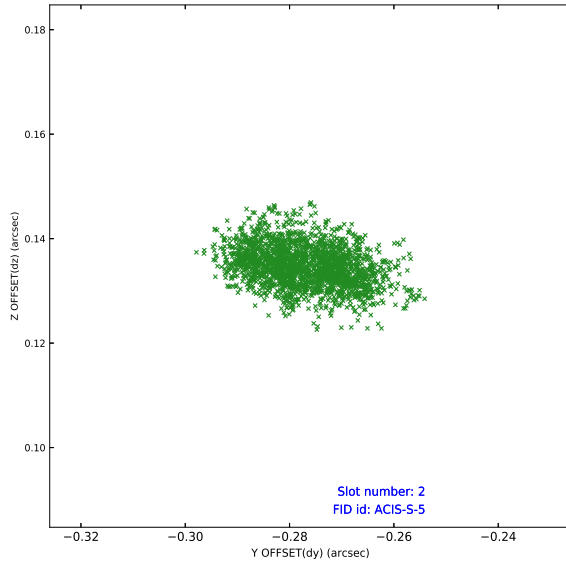
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2020.10.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.060000062108

A.2 Comments