

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5904 - L2 Version 4
Chandra X-Ray Center

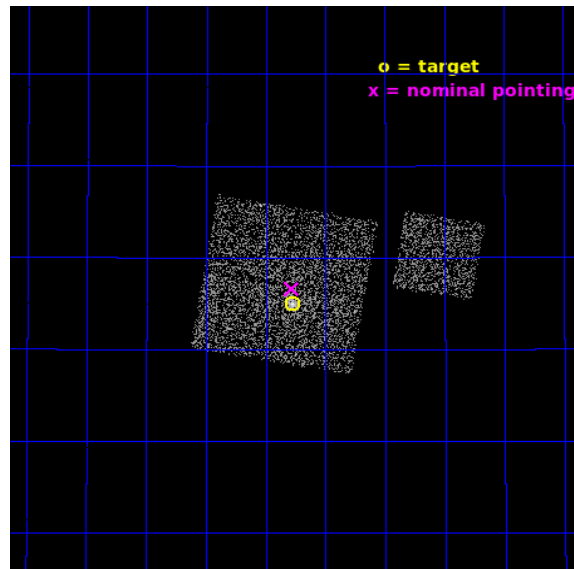
L2 Processing Date : Oct 5 2020

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

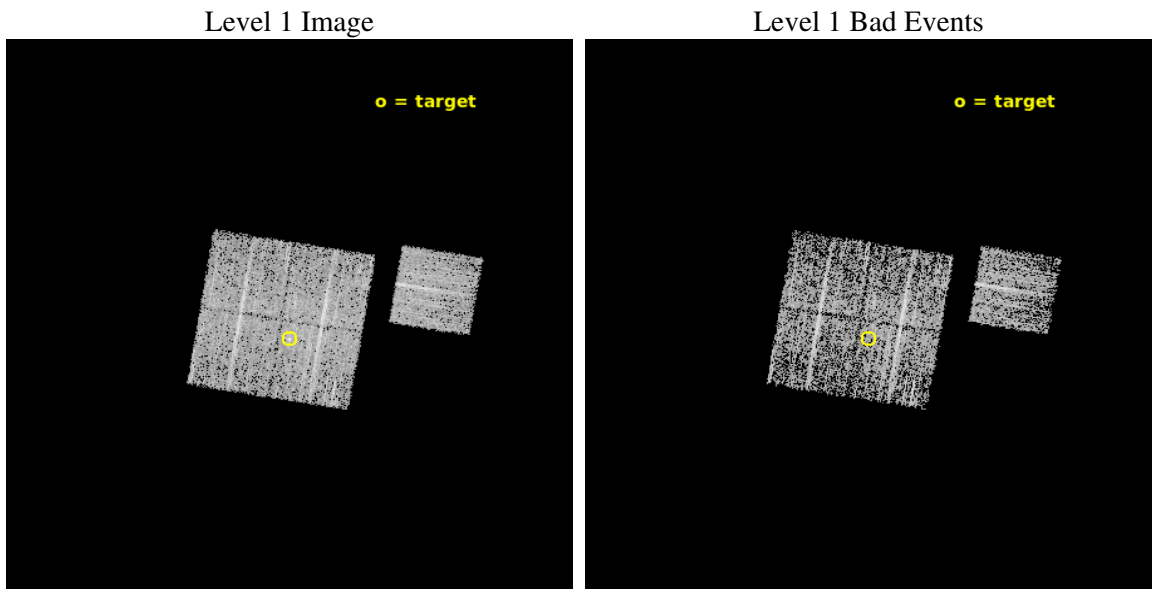
seq_num	600423	Sequence number
obs_id	5904	Observation id
title	Snapshot Observations of X-ray Bright Early-Type Galaxies	Proposal
observer	Dr. Stephen Murray	Principal investigator
object	NGC2832	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	139.945	Observer's specified target RA [deg]
dec_targ	33.749722	Observer's specified target Dec [deg]
ra_nom	139.94536243366	Nominal RA [deg]
dec_nom	33.777214218347	Nominal Dec [deg]
roll_nom	99.510837791421	Nominal Roll [deg]
revision	4	Processing version of data
ontime	3046.3999886513	Sum of GTIs [s]
livetime	3007.8246376731	Livetime [s]
ontime0	3046.3999886513	Sum of GTIs [s]
ontime1	3046.3999886513	Sum of GTIs [s]
ontime2	3046.3999886513	Sum of GTIs [s]
ontime3	3046.3999886513	Sum of GTIs [s]
ontime6	3043.158988446	Sum of GTIs [s]
l2events	9184	Number of level 2 events



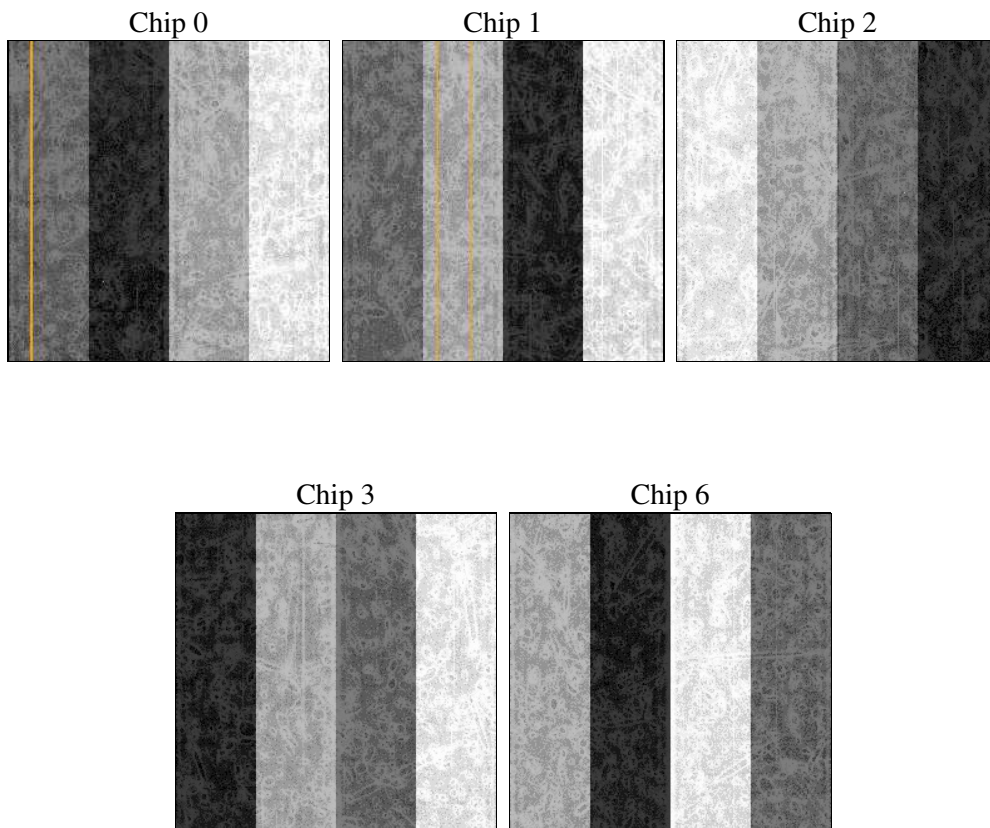
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	3046.3999886513	Sum of GTIs [s]
caldsver	4.9.2	 	ontime0	3046.3999886513	Sum of GTIs [s]
date	2020-10-06T02:38:29	Date and time of file creation	ontime1	3046.3999886513	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	3046.3999886513	Sum of GTIs [s]
			ontime3	3046.3999886513	Sum of GTIs [s]
			ontime6	3043.158988446	Sum of GTIs [s]
			l1events	93181	Number of level 1 events

2.1.4 Events

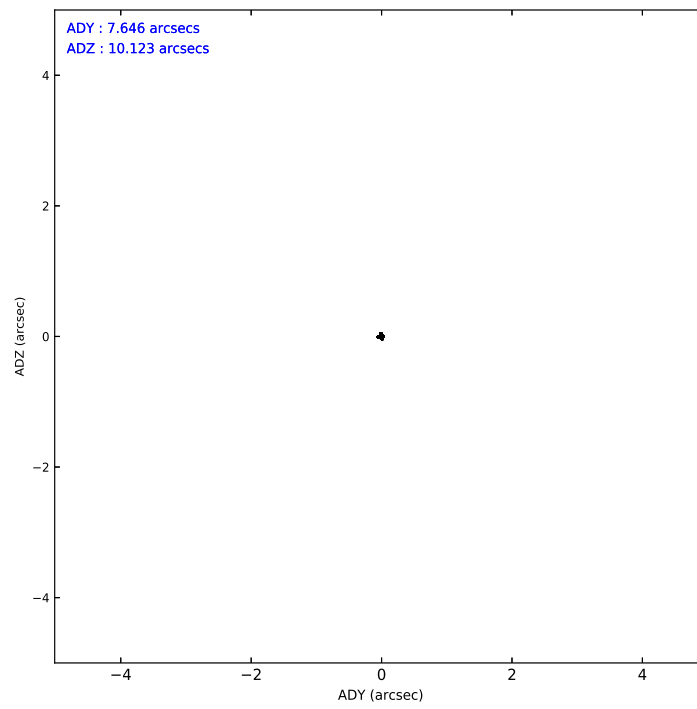
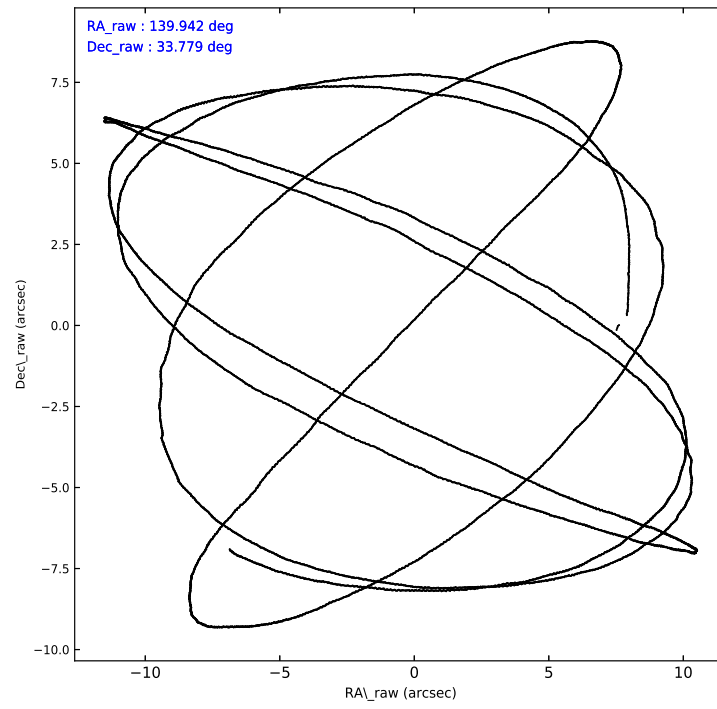
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	17147	17643	19384	19575	19432
rejected events	15134	15314	17303	17096	17444
rejected %	88%	86%	89%	87%	89%

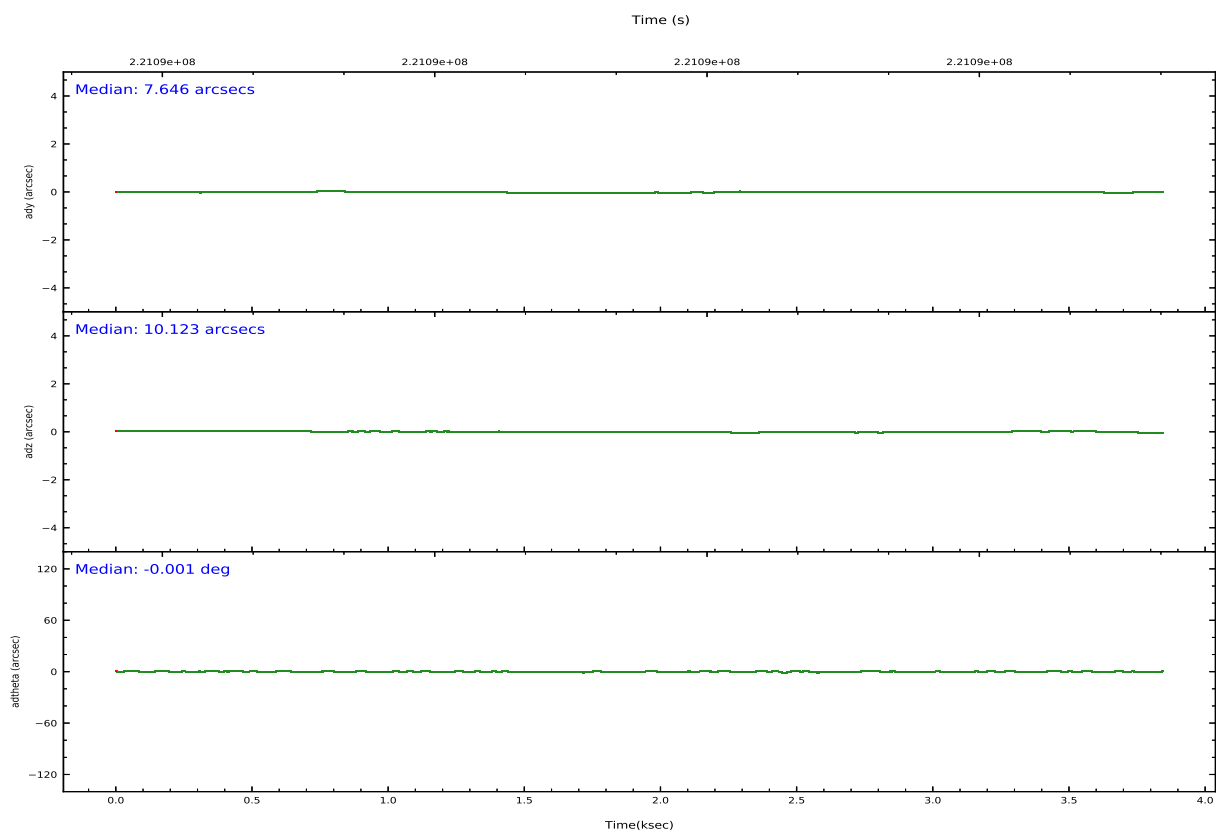
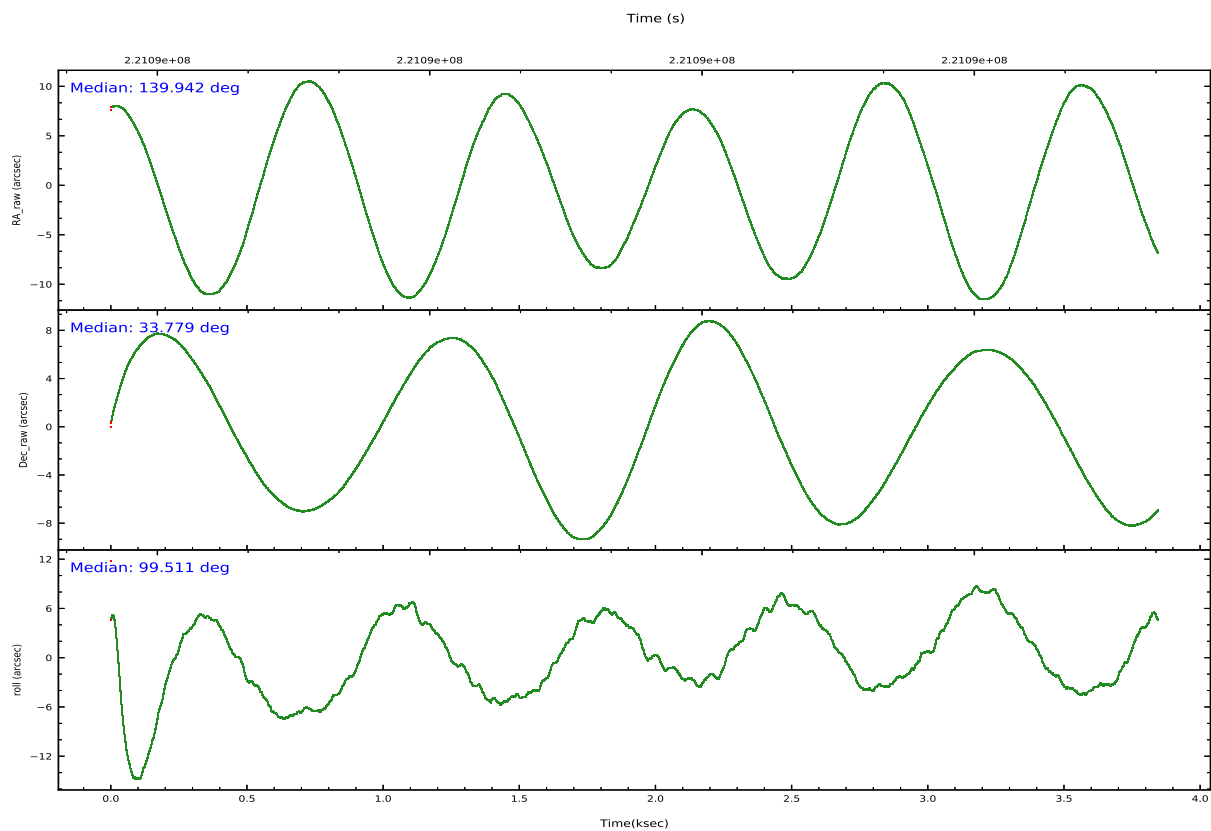
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	757	938	893	1238	753
	4%	5%	4%	6%	3%
grade 1 events	11	15	10	16	4
	0%	0%	0%	0%	0%
grade 2 events	454	471	453	413	378
	2%	2%	2%	2%	1%
grade 3 events	218	253	217	206	201
	1%	1%	1%	1%	1%
grade 4 events	211	250	206	229	214
	1%	1%	1%	1%	1%
grade 5 events	651	703	624	730	766
	3%	3%	3%	3%	3%
grade 6 events	376	423	318	398	446
	2%	2%	1%	2%	2%
grade 7 events	14469	14590	16663	16345	16670
	84%	82%	85%	83%	85%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-01236	ACIS-01236	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	139.962492	139.94536243366	Subarray requested	NONE	NONE
[deg] Pointing Dec	33.757843	33.777214218347	Alternating exposures requested	N	N
[deg] Pointing Roll	99.293837	99.510837791421	[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	-232.092463	-232.0989598023052			
[mm] SIM translation stage offset	-1.5	-1.493493200624528			
[s] Observation start time (MET)	221091675.184000	221090410.89447			
Observation start date	2005-01-02T22:20:11	2005-01-02T22:00:10			
[s] Observation end time (MET)	221094675.184000	221096489.14474			
Observation end date	2005-01-02T23:10:11	2005-01-02T23:41:29			
Read mode	TIMED	TIMED			

2.3 Aspect



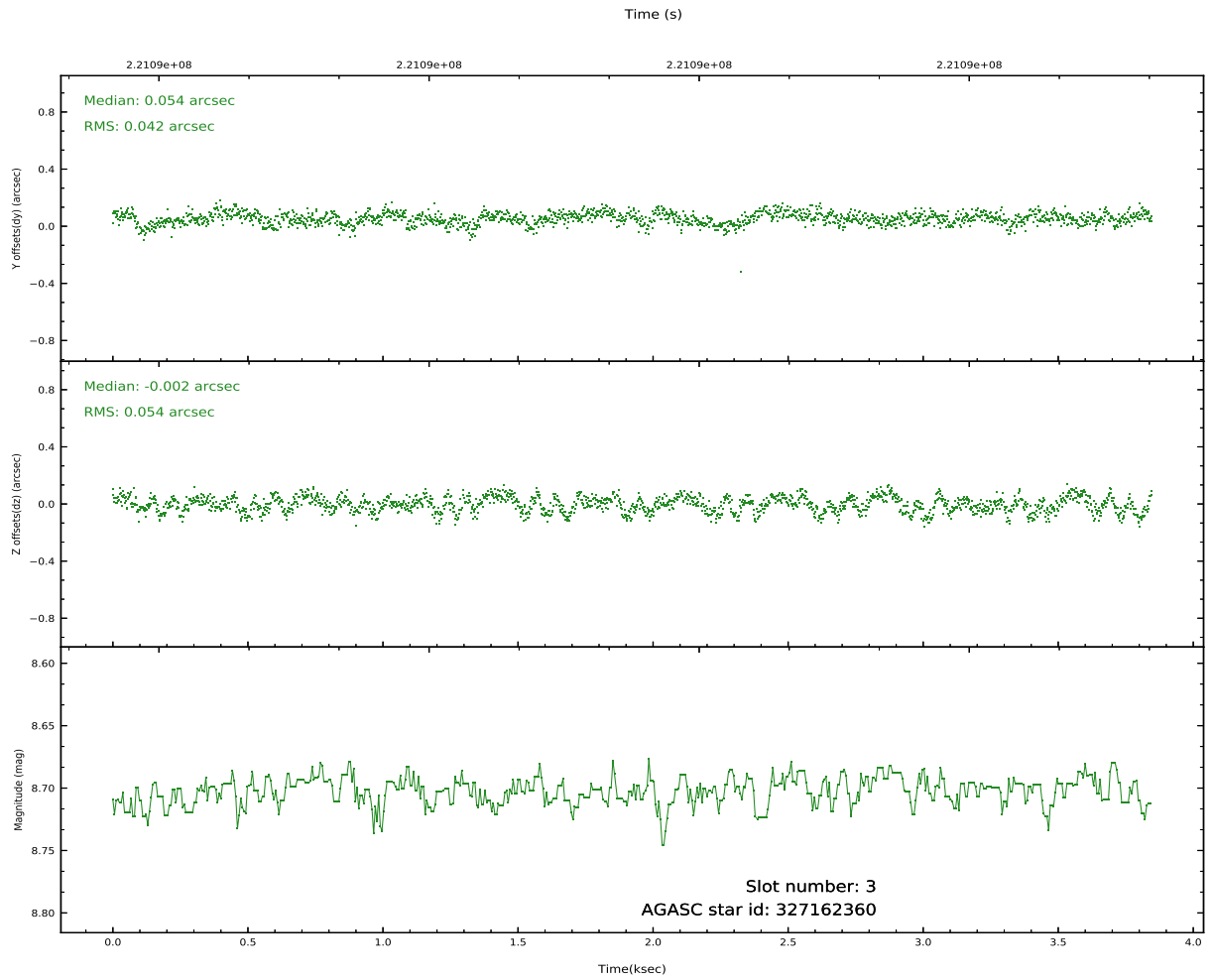
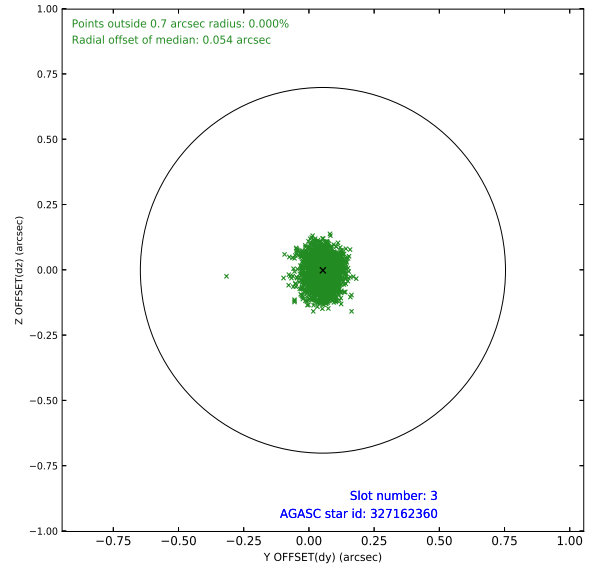
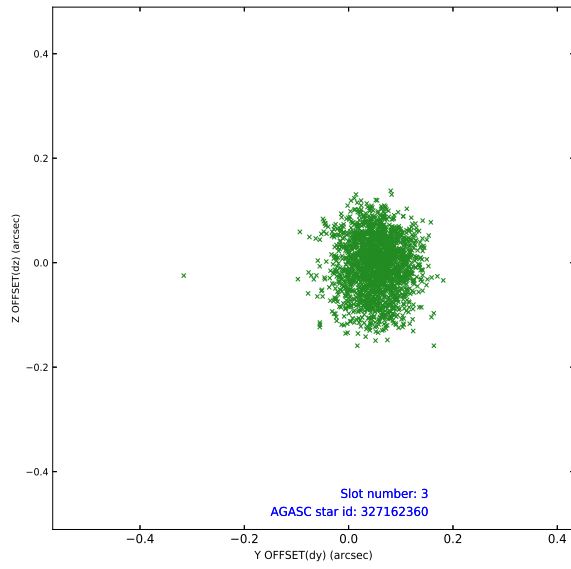


Slot Statistics

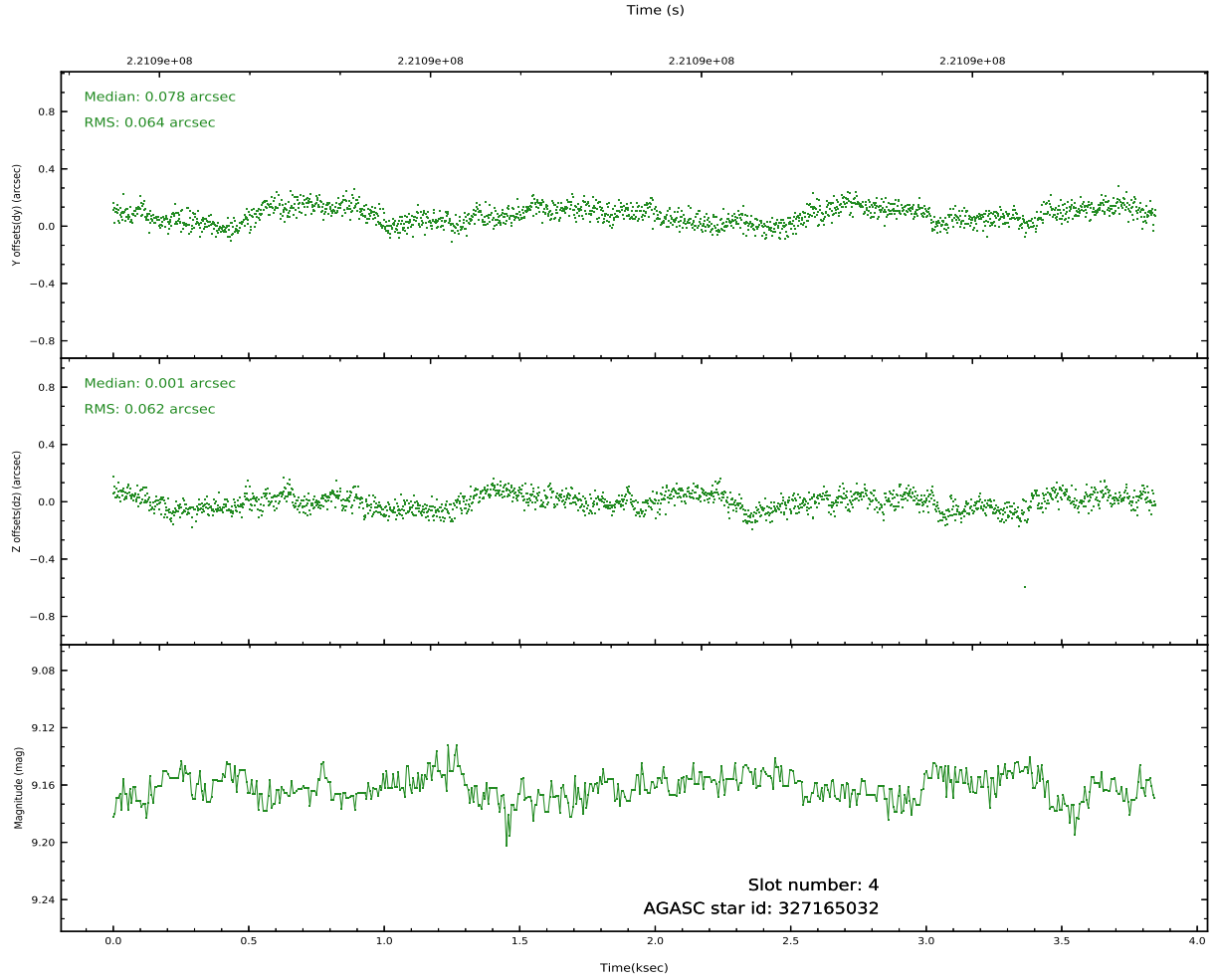
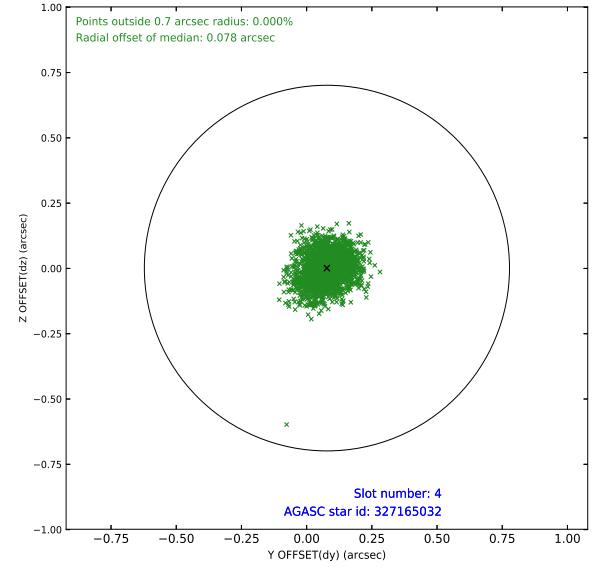
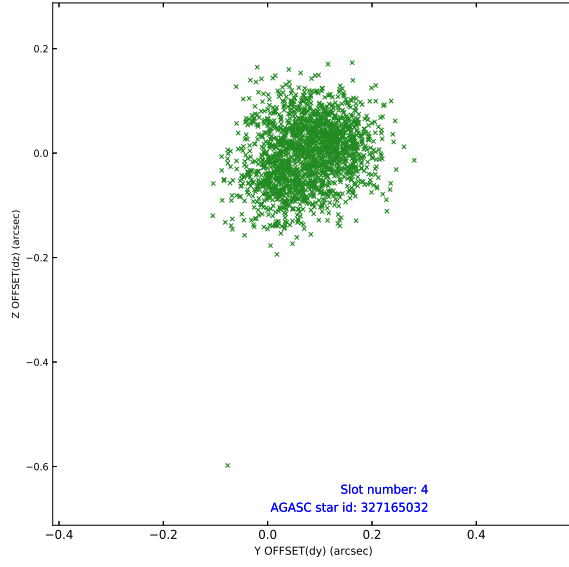
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.25	939	1.000	0.054	-0.040	0.006	0.010	0.000000	0.000000	932.04	-864
1	FID		ACIS-I-5	7.23	938	1.000	-0.220	0.051	0.006	0.010	0.000000	0.000000	-1815.41	1032
2	FID		ACIS-I-6	7.25	939	1.000	0.074	0.059	0.007	0.011	0.000000	0.000000	395.87	1678
3	GUIDE	used	327162360	8.70	1873	1.000	0.054	-0.002	0.074	0.116	140.144778	33.760524	-78.26	-539
4	GUIDE	used	327165032	9.16	1877	1.000	0.078	0.001	0.094	0.148	140.214951	33.151031	-2277.75	-398
5	GUIDE	used	327168488	8.84	1876	1.000	-0.037	0.087	0.073	0.121	140.178859	34.177574	1386.71	-879
6	GUIDE	used	327168896	9.69	1872	1.000	0.040	-0.070	0.116	0.183	140.297138	33.254037	-1950.02	-702
7	GUIDE	used	327165288	8.40	1875	1.000	-0.137	-0.003	0.100	0.154	140.847581	33.464011	-1462.83	-2454

2.4 Star Slots

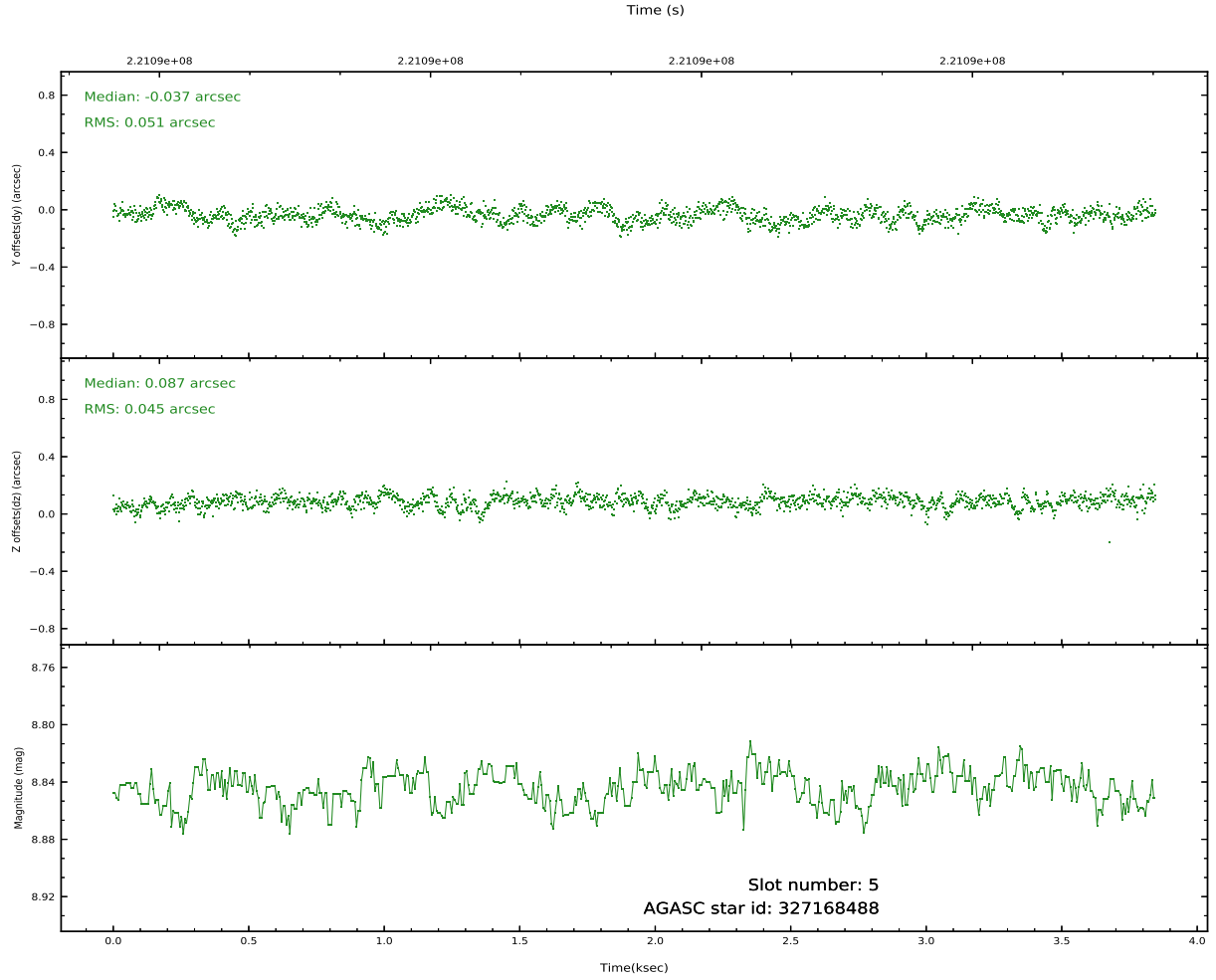
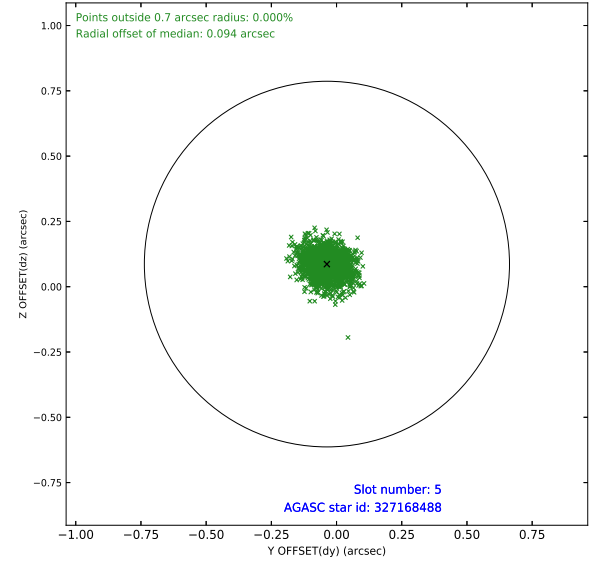
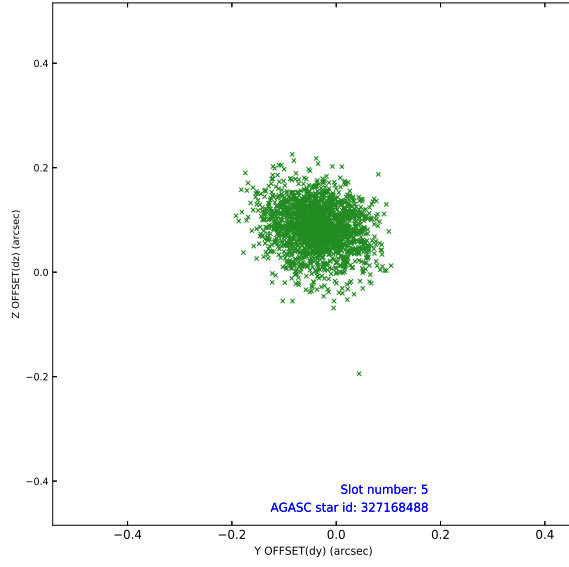
2.4.1 Slot 3



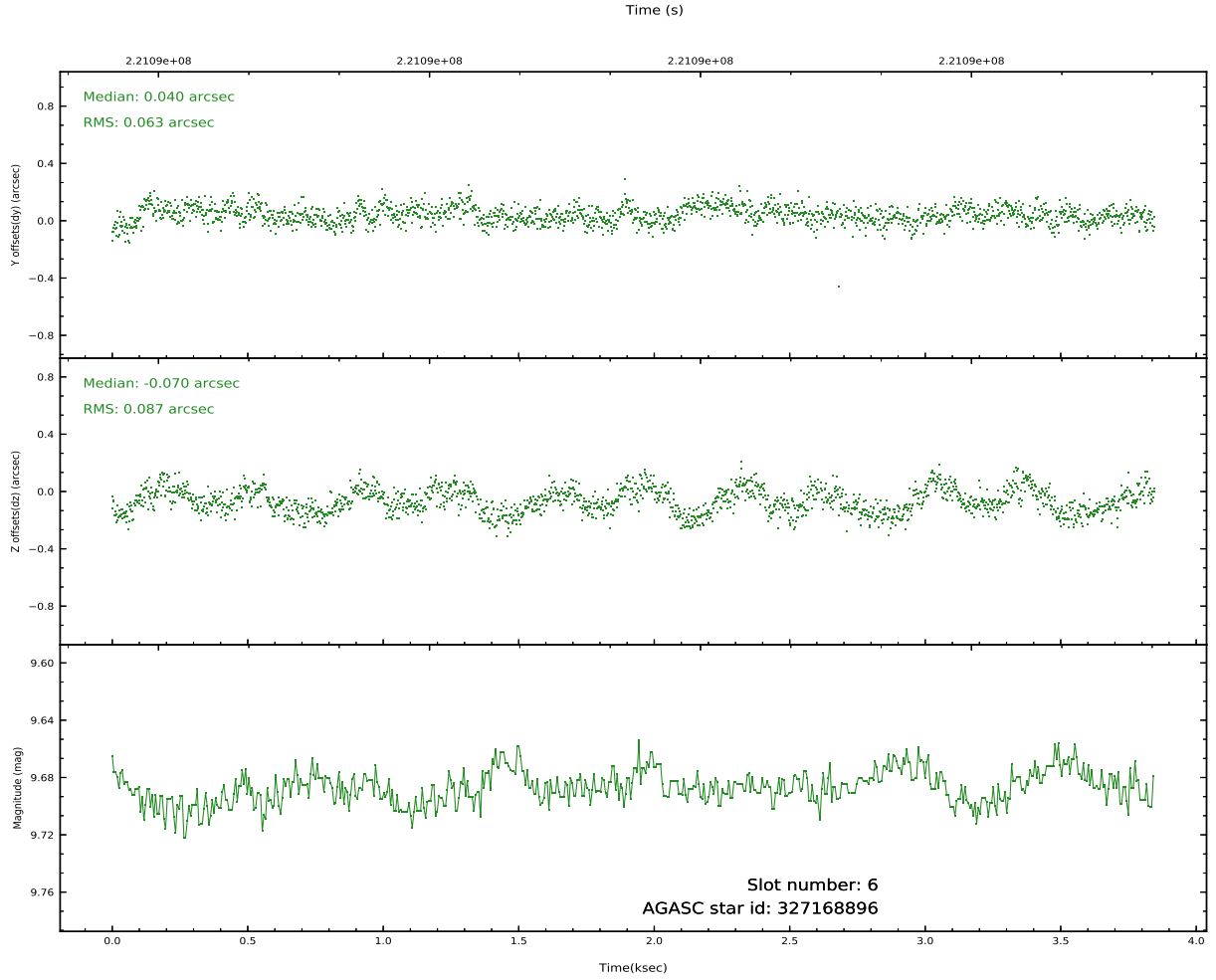
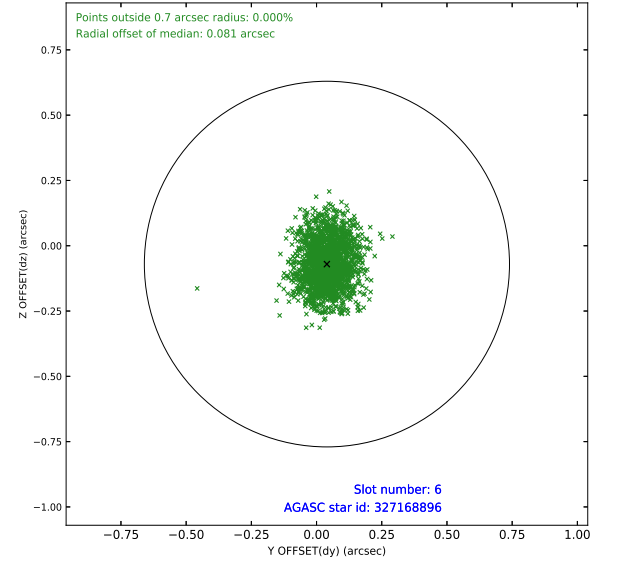
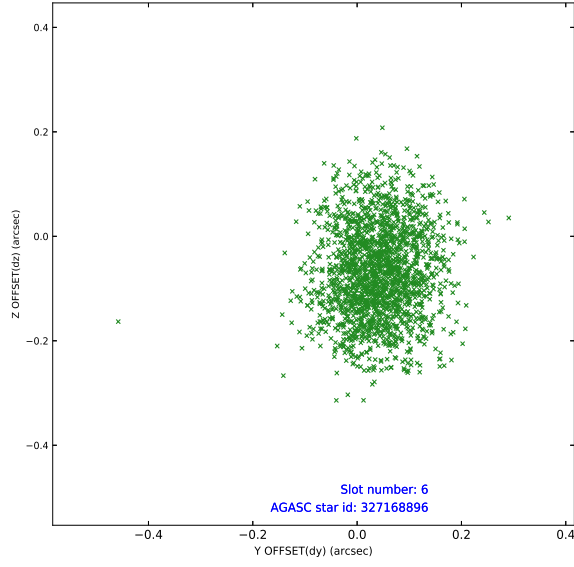
2.4.2 Slot 4



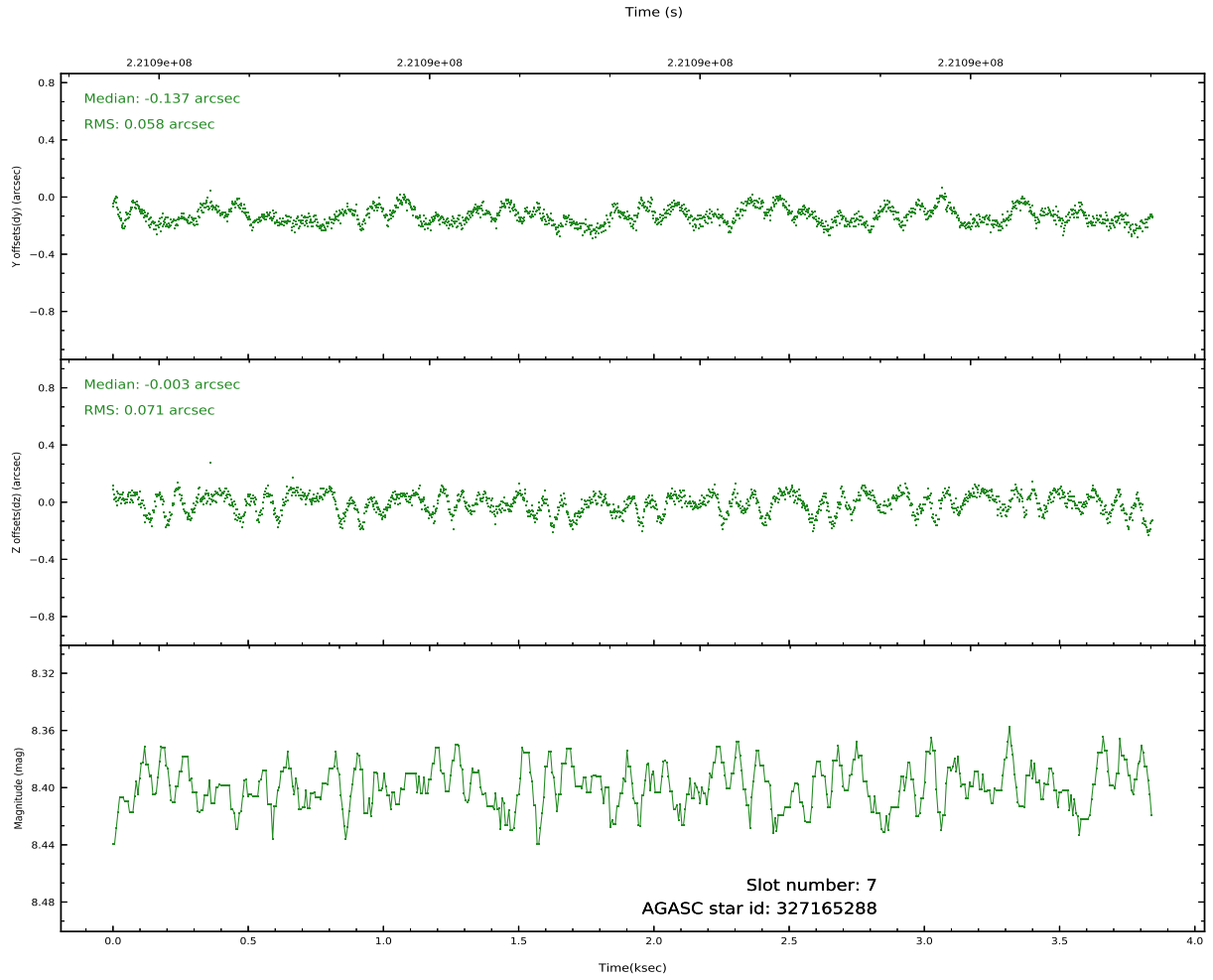
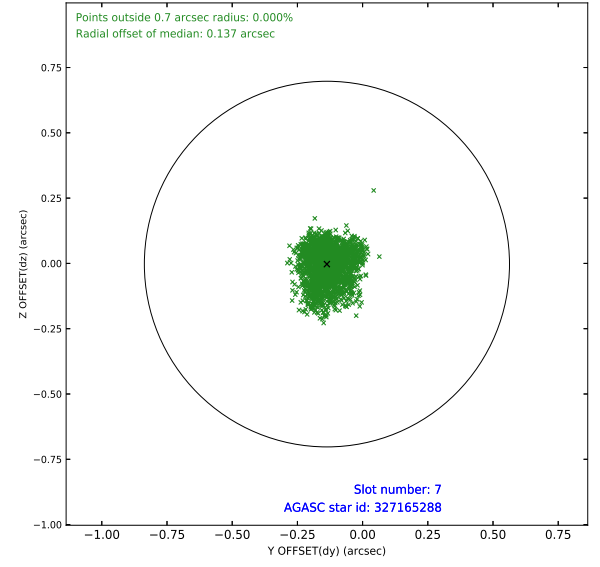
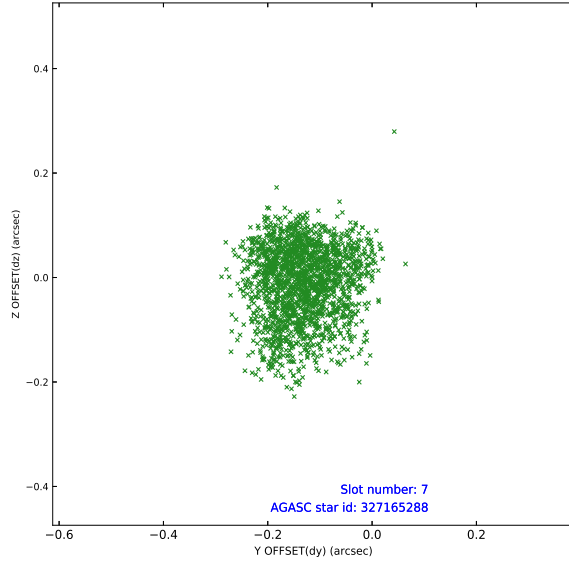
2.4.3 Slot 5



2.4.4 Slot 6

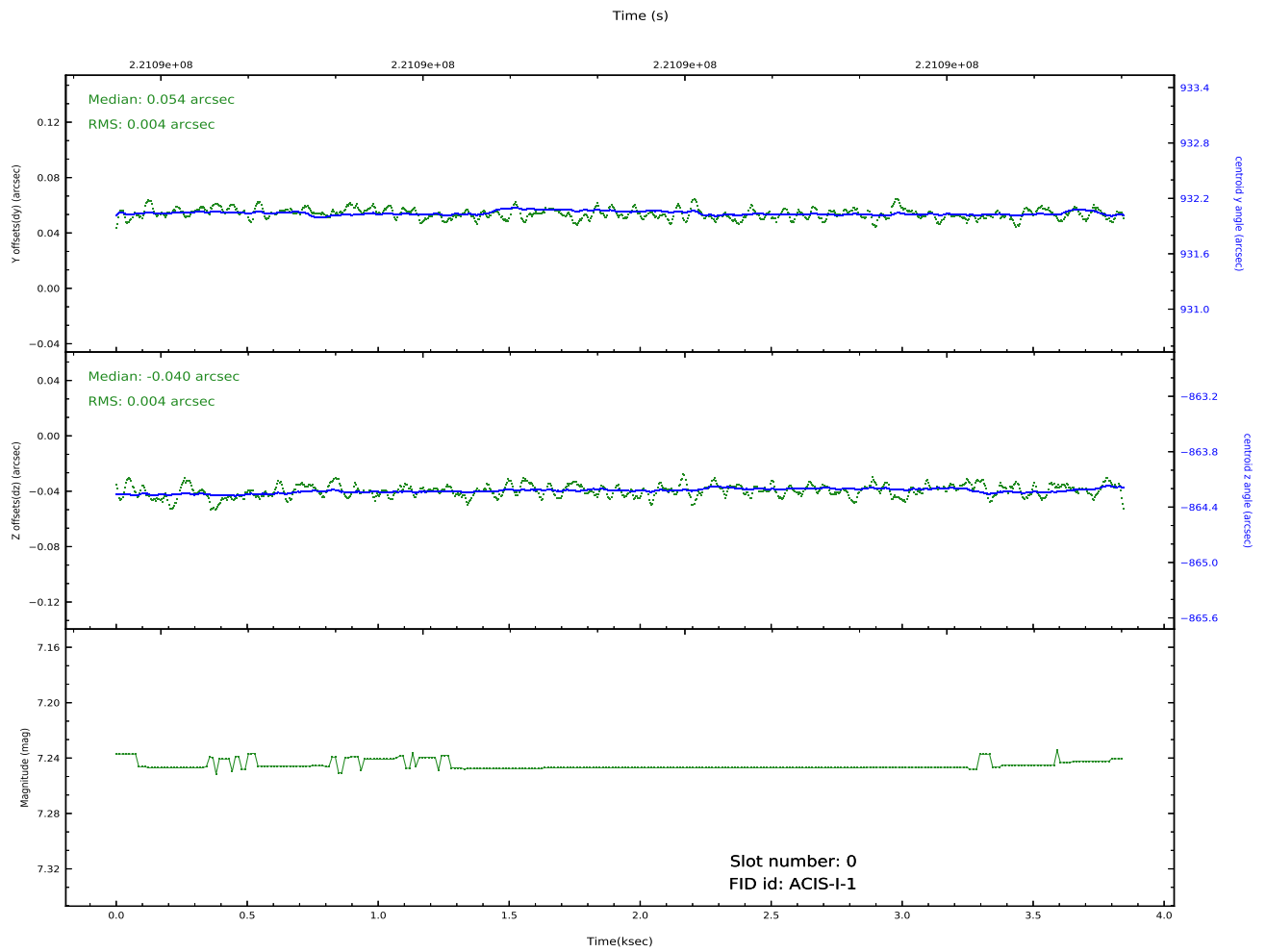
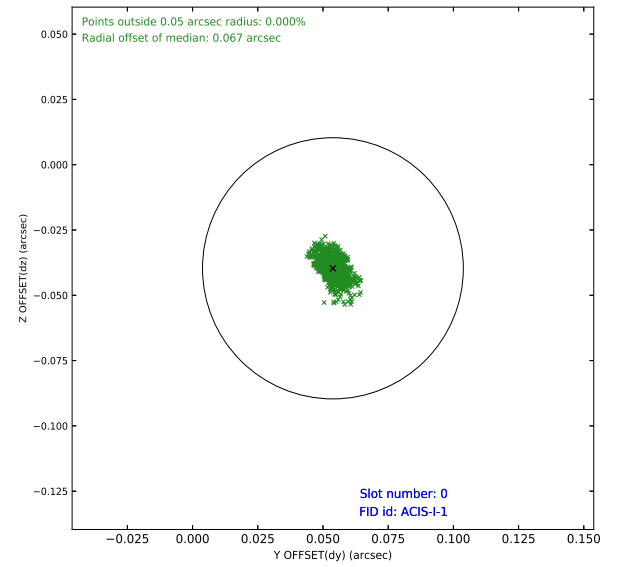
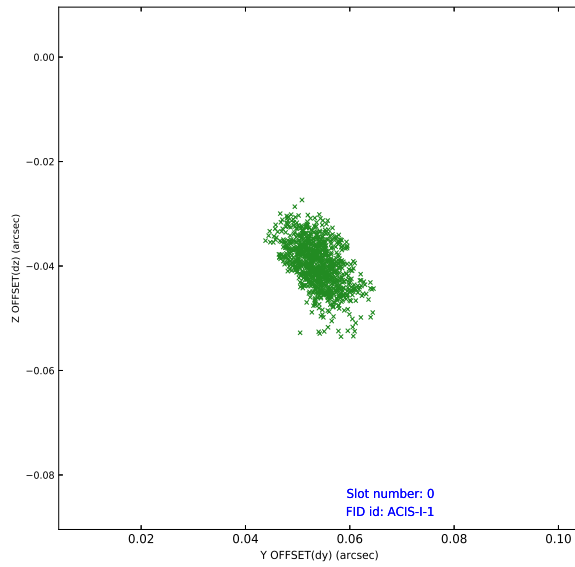


2.4.5 Slot 7

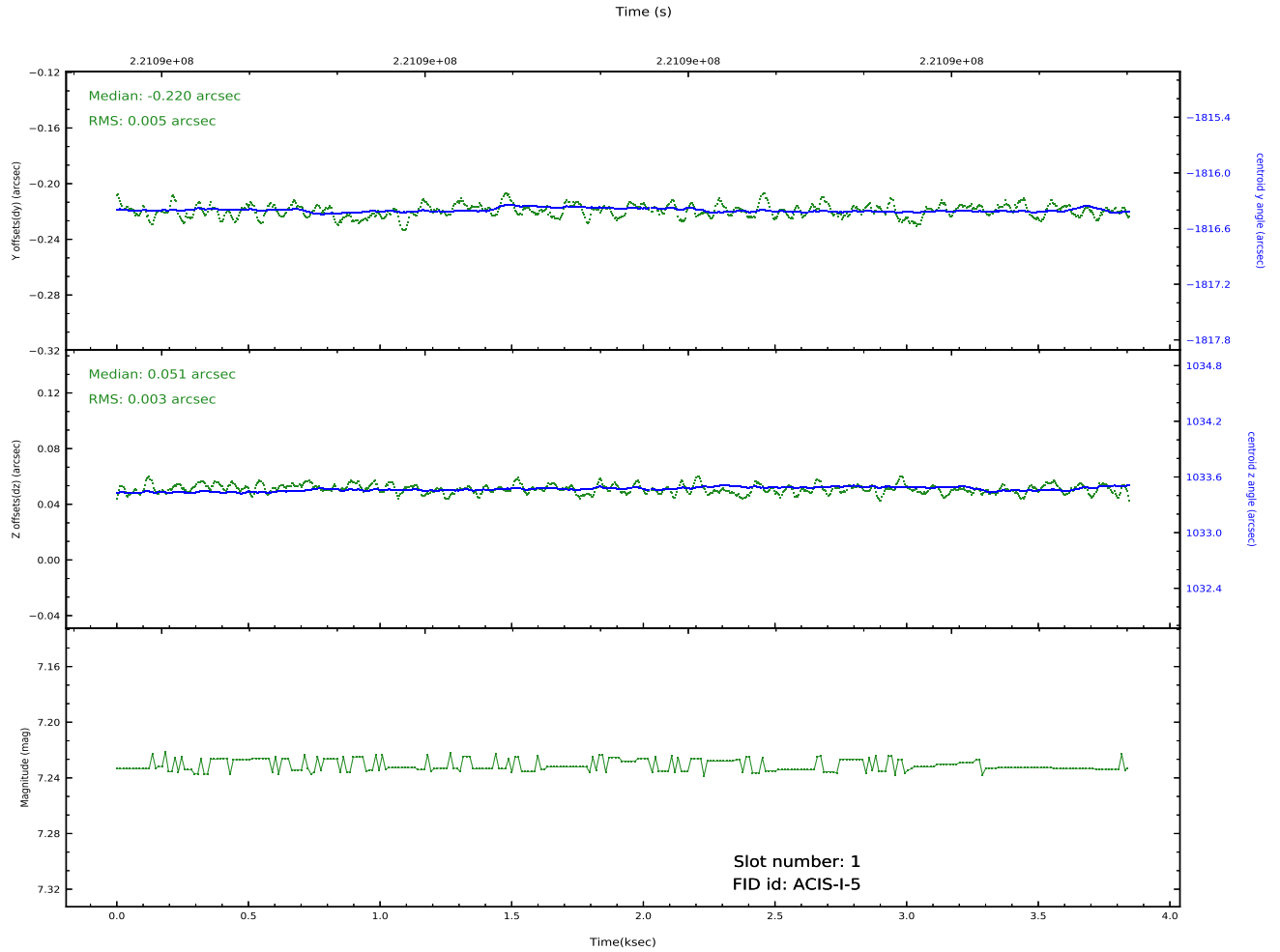
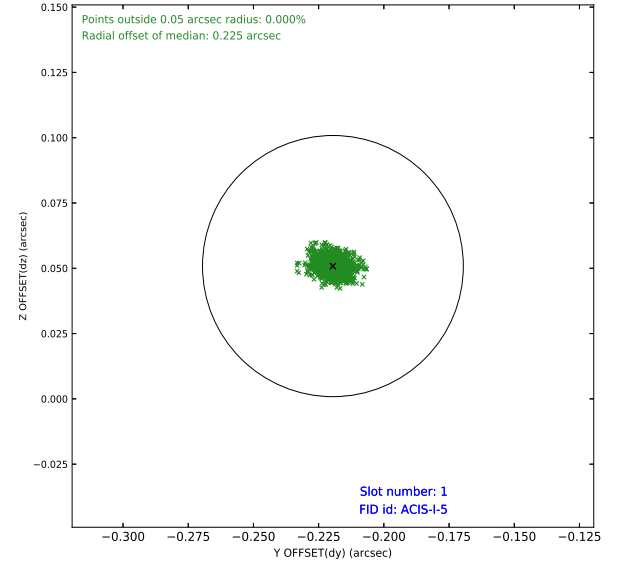
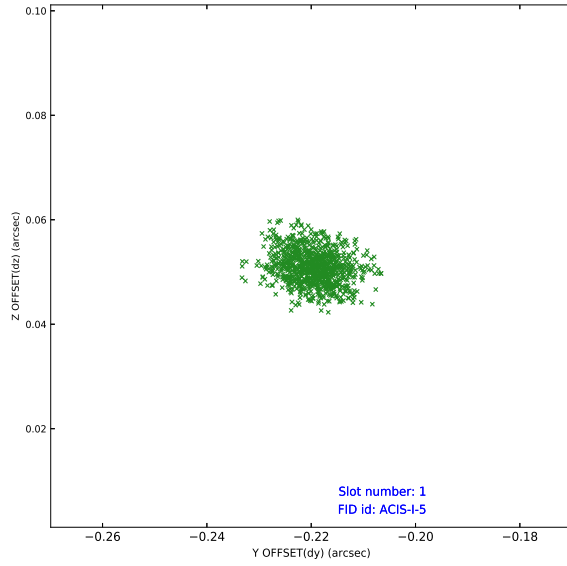


2.5 FID Slots

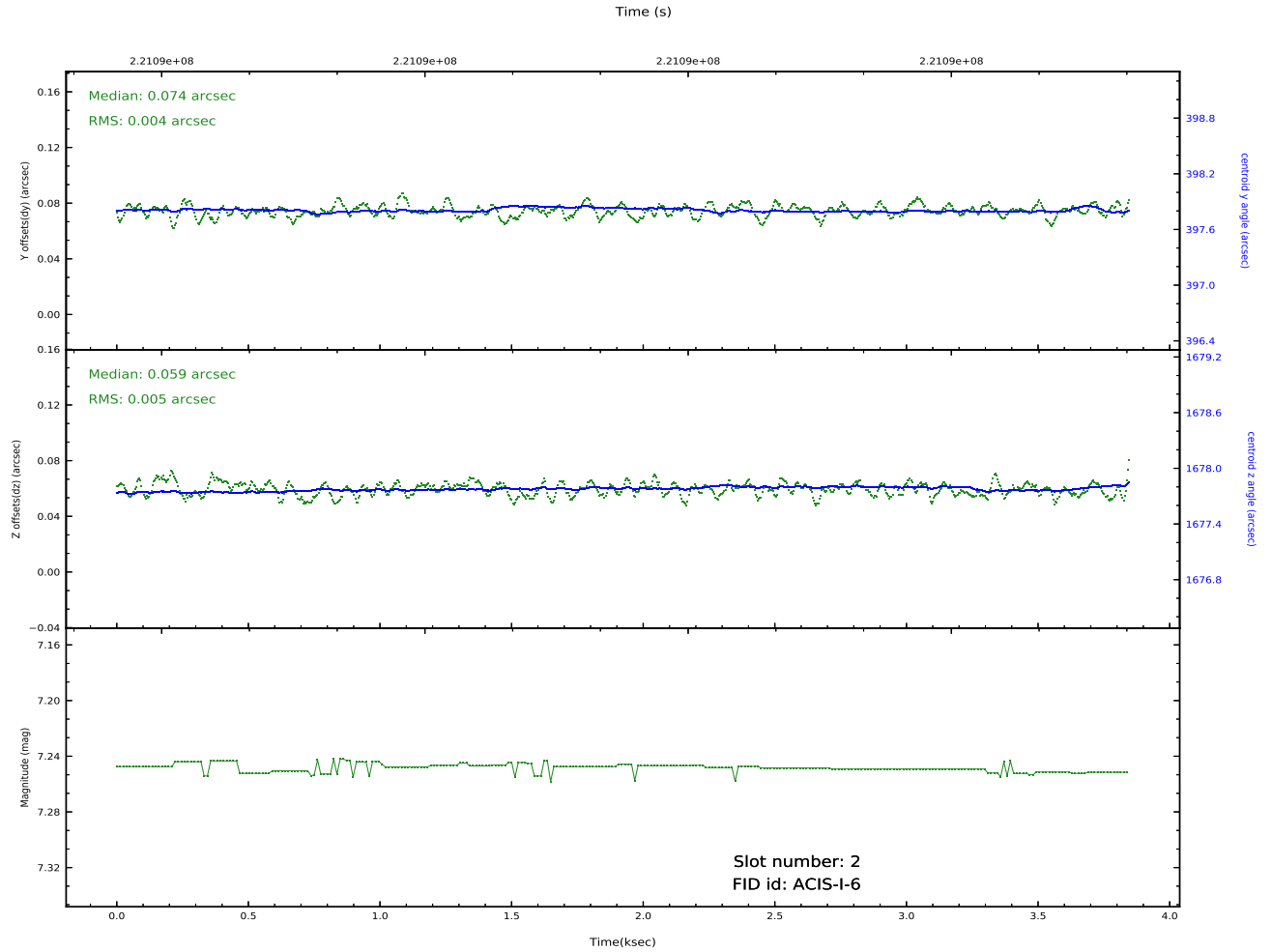
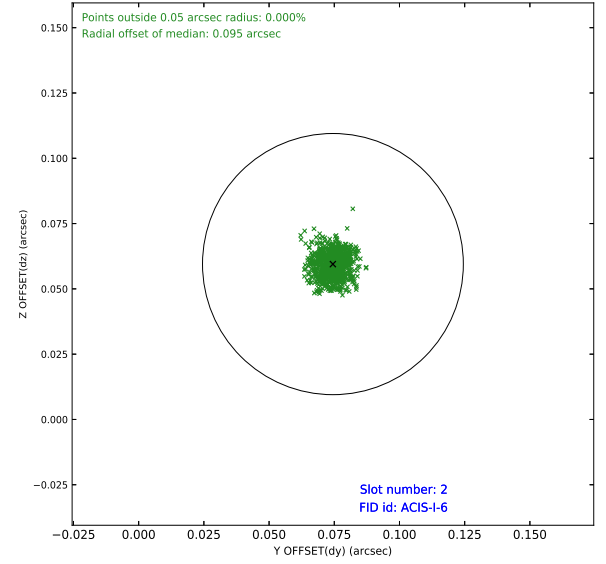
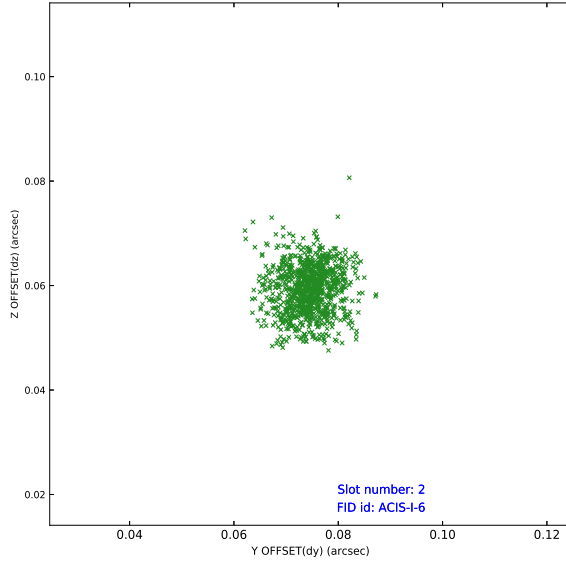
2.5.1 Slot 0



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)	2020.10.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.046399

A.2 Comments