

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20335 - L2 Version 2
Chandra X-Ray Center

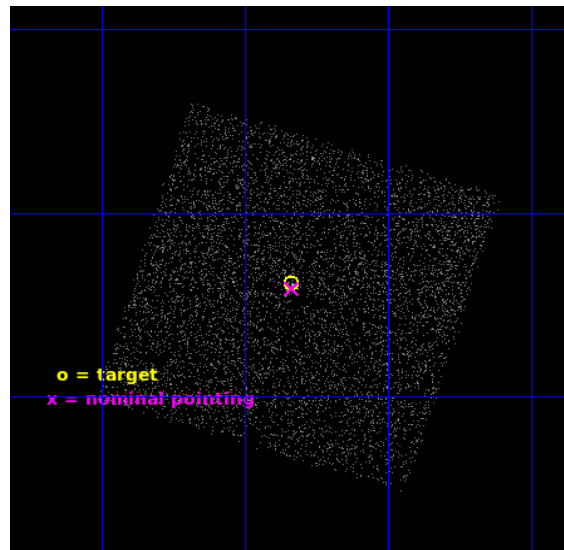
L2 Processing Date : Oct 27 2020

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

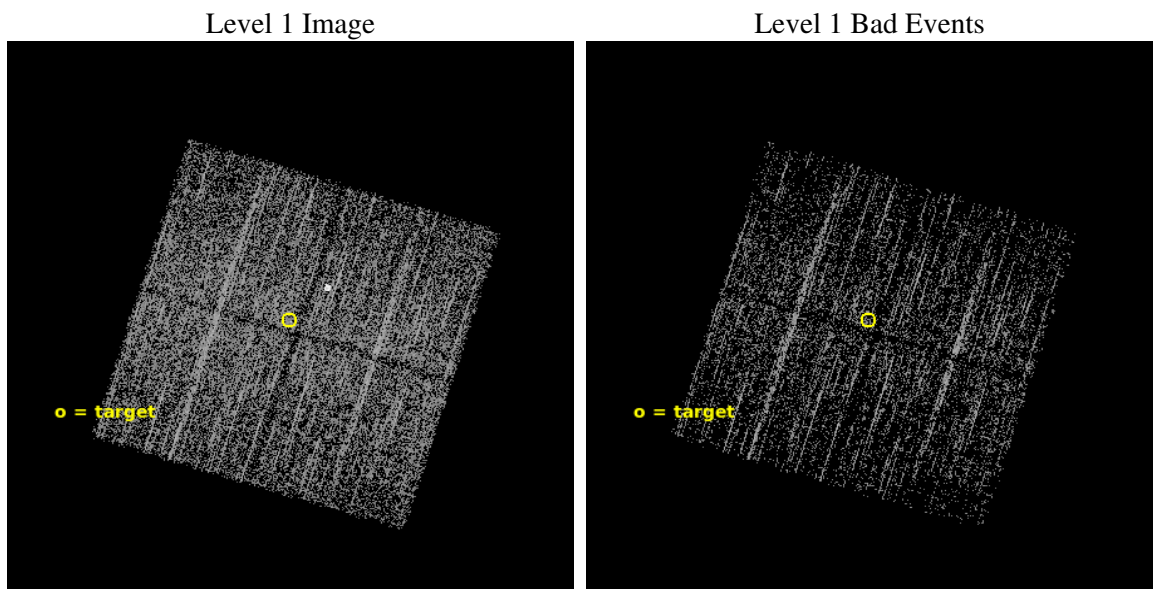
seq_num	503028	Sequence number
obs_id	20335	Observation id
title	Chandra ToO observations of Swift Galactic Plane Survey sources	Pr
observer	Chryssa Kouveliotou	Principal investigator
object	Swift J183920.1-045350	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	279.833792	Observer's specified target RA [deg]
dec_targ	-4.897139	Observer's specified target Dec [deg]
ra_nom	279.83378223611	Nominal RA [deg]
dec_nom	-4.9019993983294	Nominal Dec [deg]
roll_nom	287.27899332731	Nominal Roll [deg]
revision	2	Processing version of data
ontime	2576.1000199318	Sum of GTIs [s]
livetime	2542.4413766741	Livetime [s]
ontime0	2576.1000199318	Sum of GTIs [s]
ontime1	2576.1000199318	Sum of GTIs [s]
ontime2	2576.1000199318	Sum of GTIs [s]
ontime3	2576.1000199318	Sum of GTIs [s]
l2events	7666	Number of level 2 events



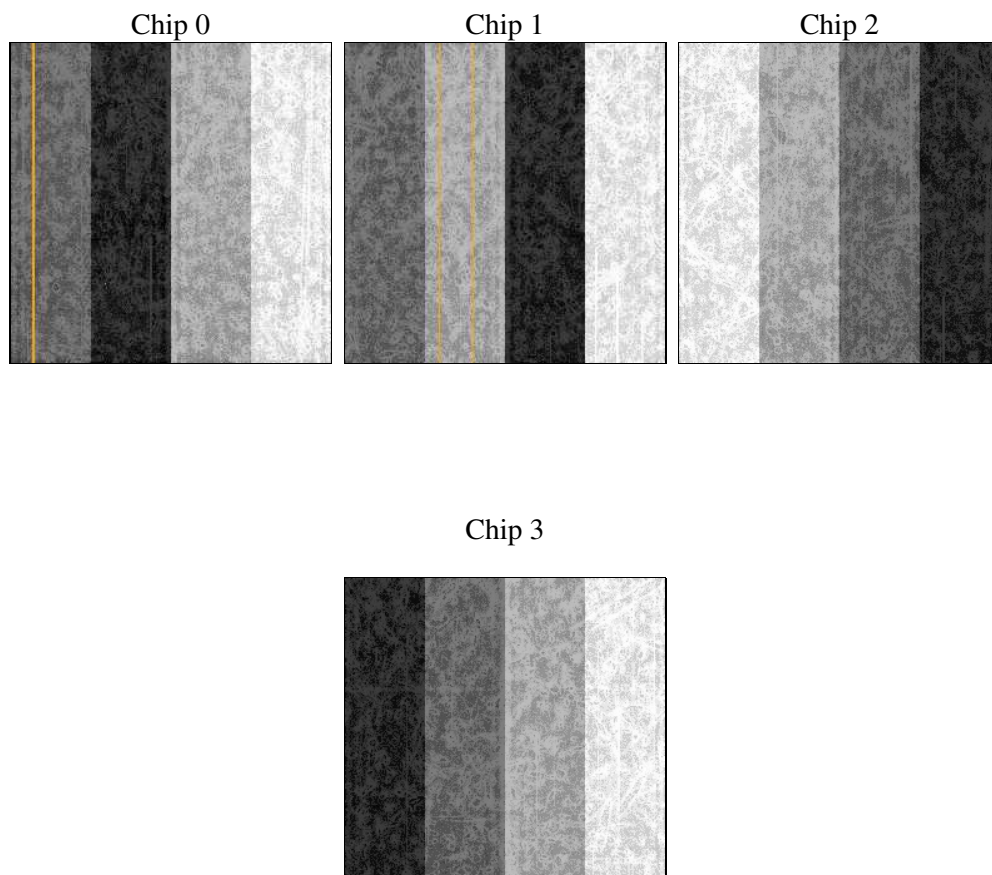
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2500.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	2576.1000199318	Sum of GTIs [s]
caldsver	4.9.3	 	ontime0	2576.1000199318	Sum of GTIs [s]
date	2020-10-28T03:39:25	Date and time of file creation	ontime1	2576.1000199318	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	2576.1000199318	Sum of GTIs [s]
			ontime3	2576.1000199318	Sum of GTIs [s]
			l1events	78473	Number of level 1 events

2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	17681	20538	20907	19347
rejected events	15582	16502	18713	17103
rejected %	88%	80%	89%	88%

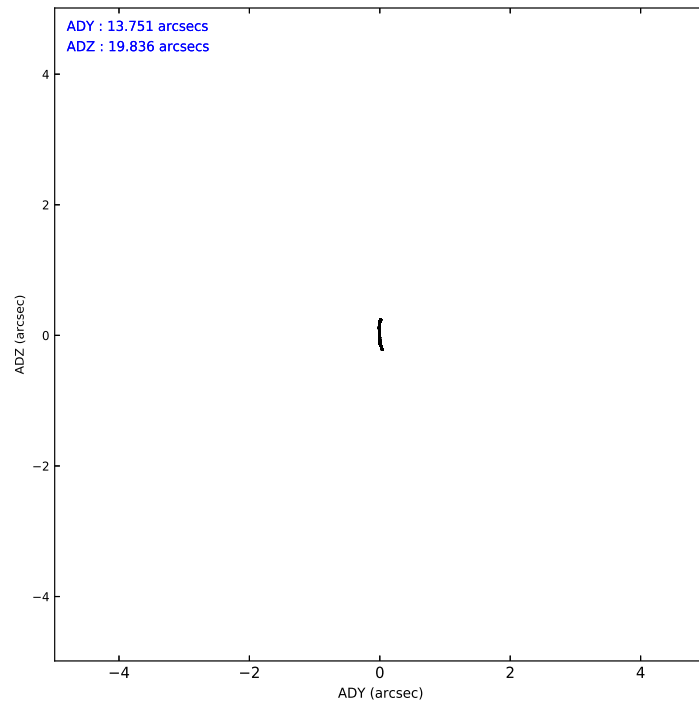
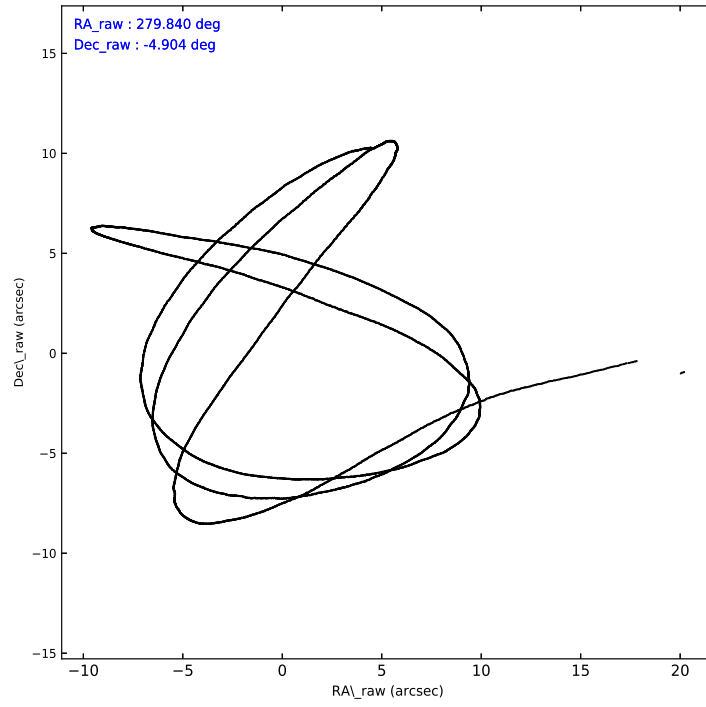
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	738	2326	844	852
	4%	11%	4%	4%
grade 1 events	5	15	9	24
	0%	0%	0%	0%
grade 2 events	523	692	479	456
	2%	3%	2%	2%
grade 3 events	188	211	231	227
	1%	1%	1%	1%
grade 4 events	207	235	220	226
	1%	1%	1%	1%
grade 5 events	798	814	768	919
	4%	3%	3%	4%
grade 6 events	446	577	421	486
	2%	2%	2%	2%
grade 7 events	14776	15668	17935	16157
	83%	76%	85%	83%

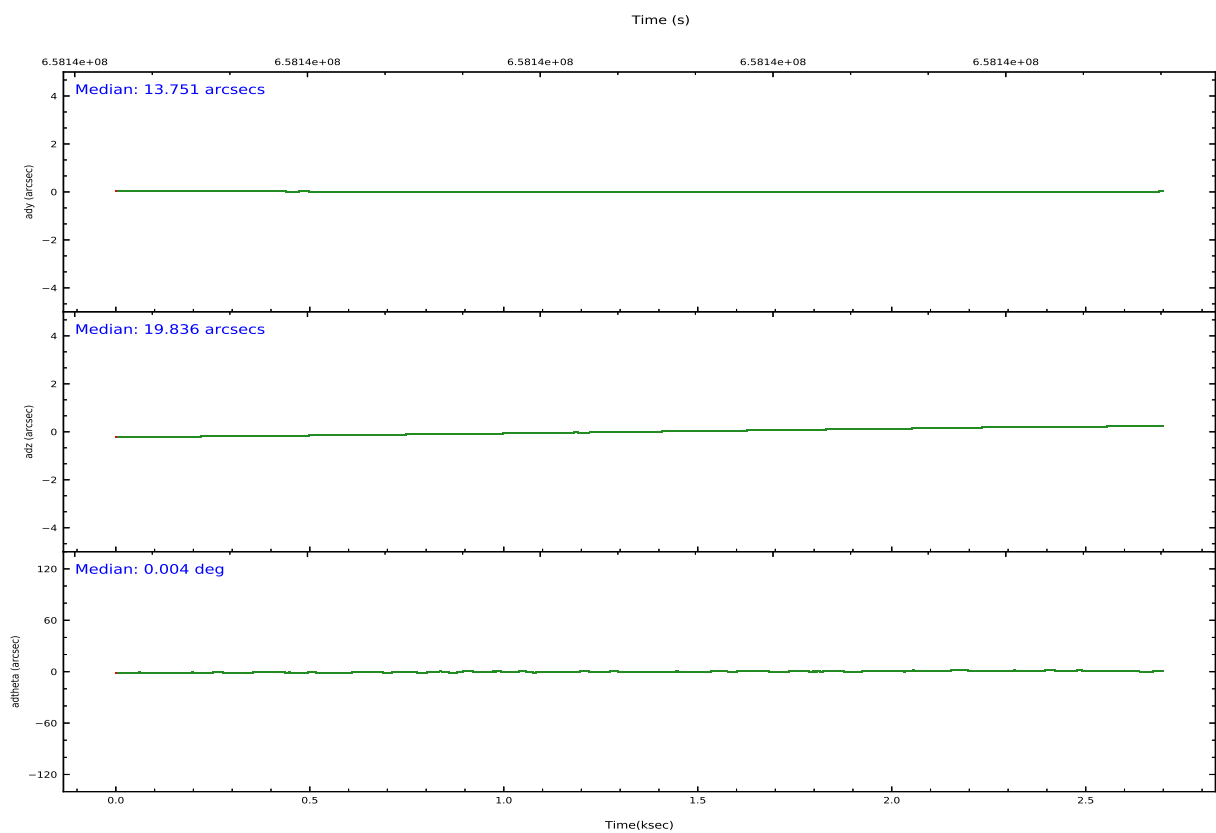
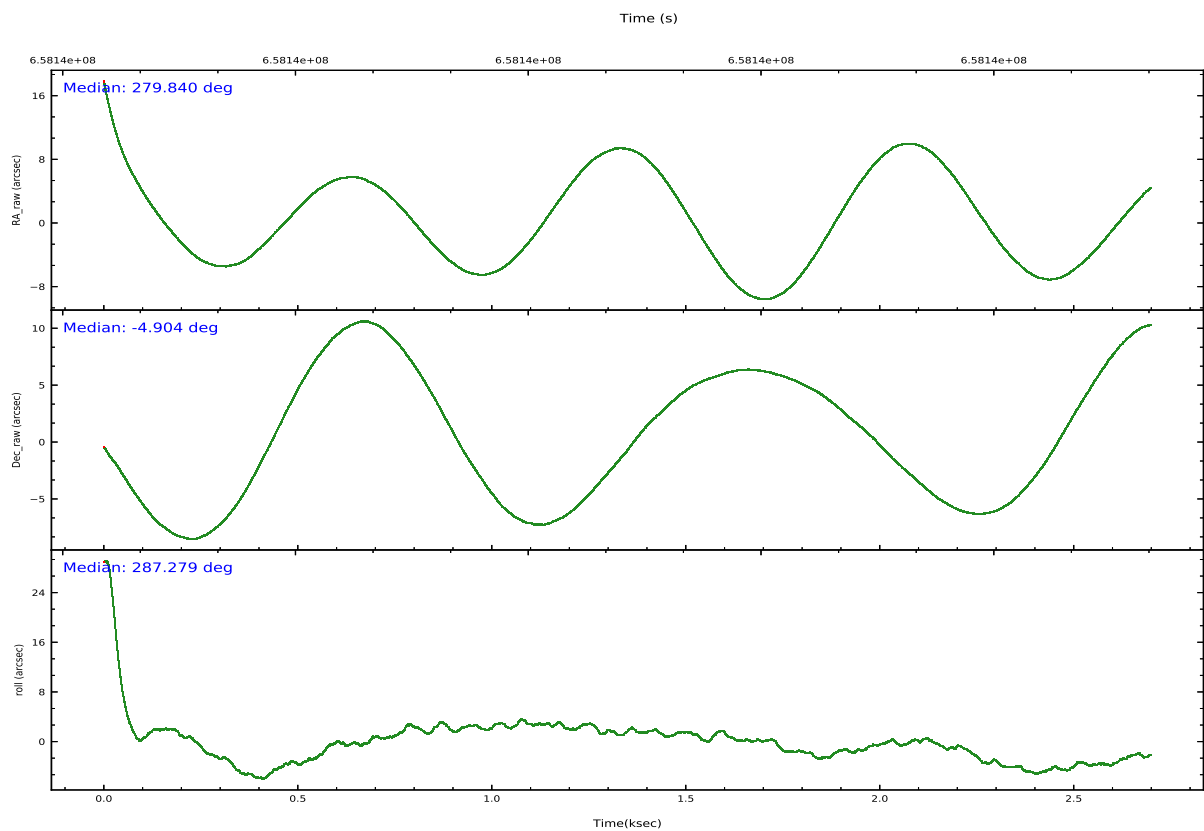
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-0123	ACIS-0123
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	279.820297	279.83378223611
[deg] Pointing Dec	-4.885506	-4.9019993983294
[deg] Pointing Roll	287.080834	287.27899332731
[mm] SIM focus pos	-0.782348	-0.7809083437167272
[mm] SIM defocus	0	0.001439871863259334
[mm] SIM translation stage pos	-233.592463	-233.5874344608287
[mm] SIM translation stage offset	0	-0.005018542100998502
[s] Observation start time (MET)	658141307.184000	658140510.31613
Observation start date	2018-11-09T09:00:38	2018-11-09T08:48:30
[s] Observation end time (MET)	658143807.184000	658144448.3663599
Observation end date	2018-11-09T09:42:18	2018-11-09T09:54:08
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



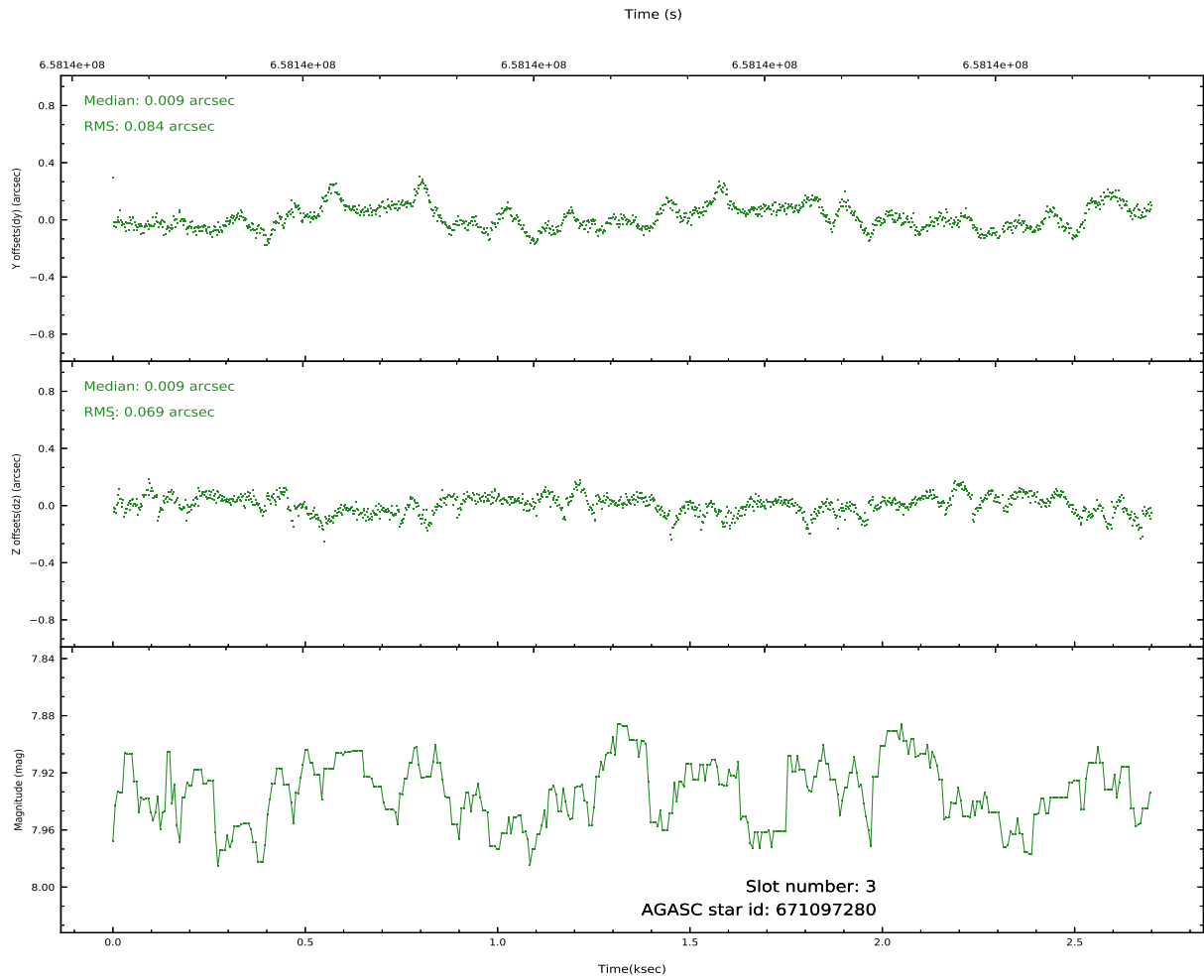
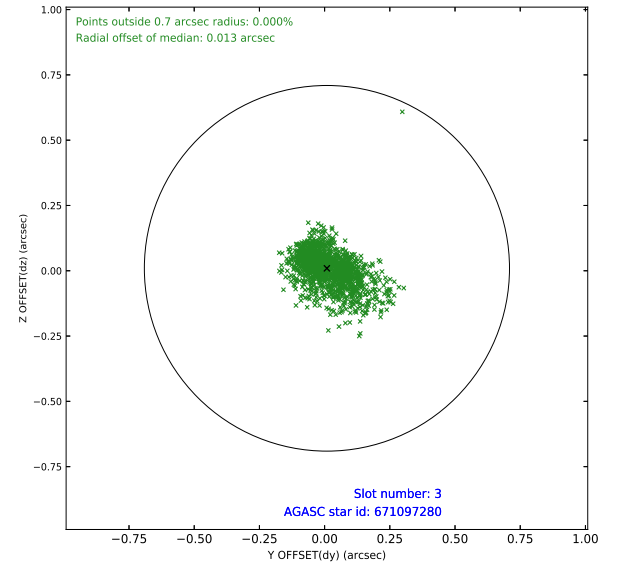
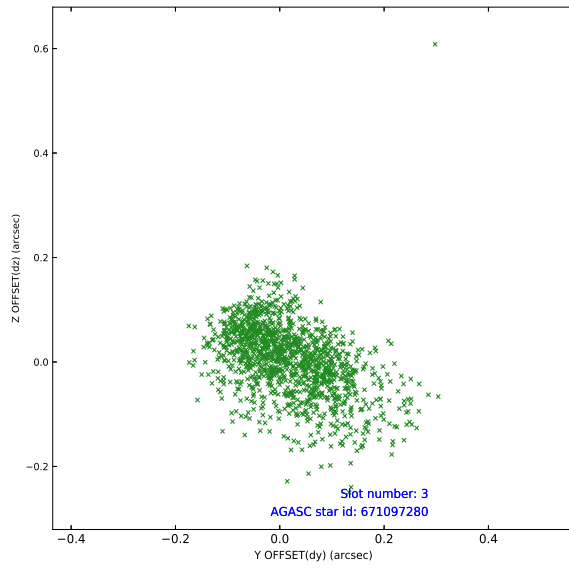


Slot Statistics

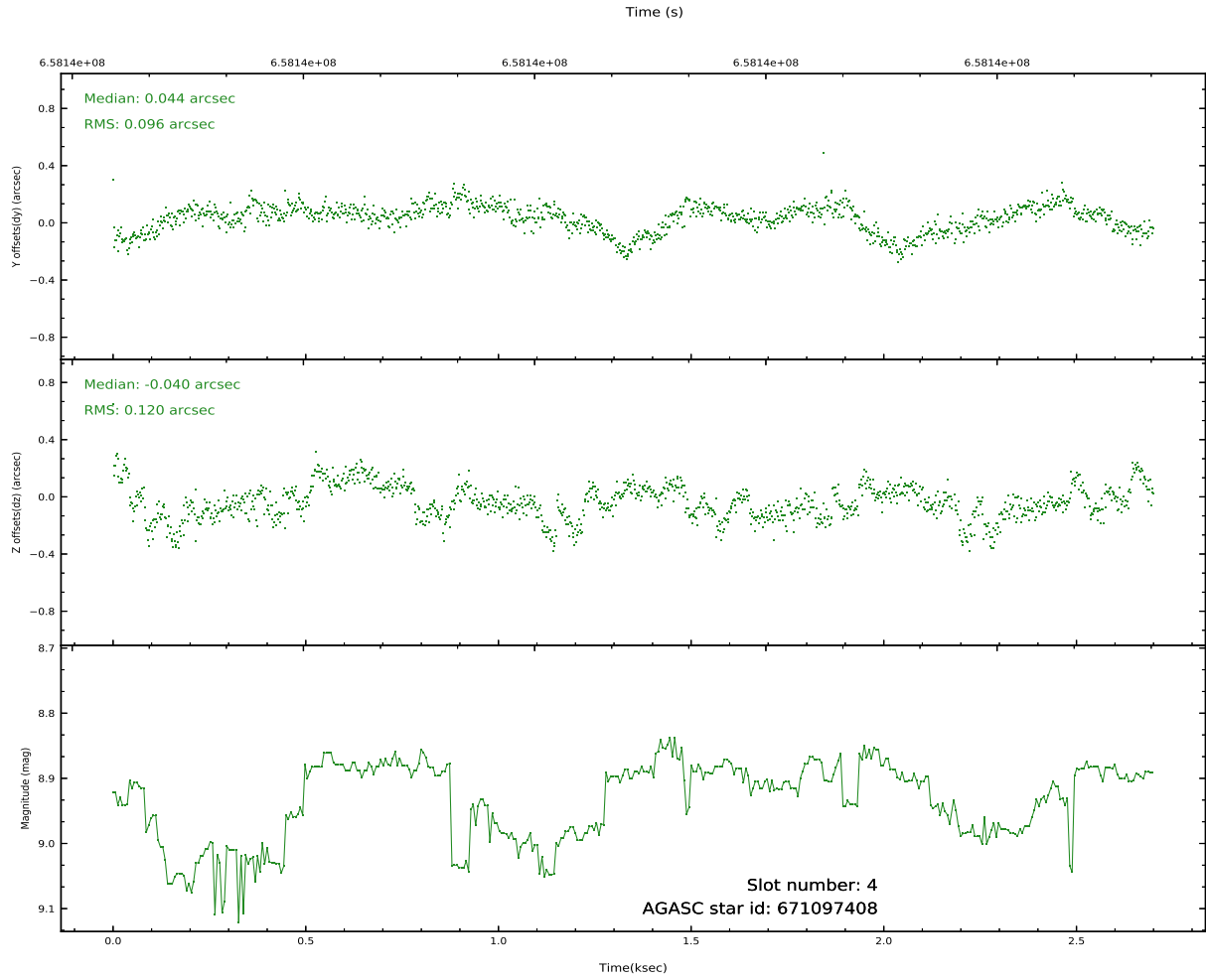
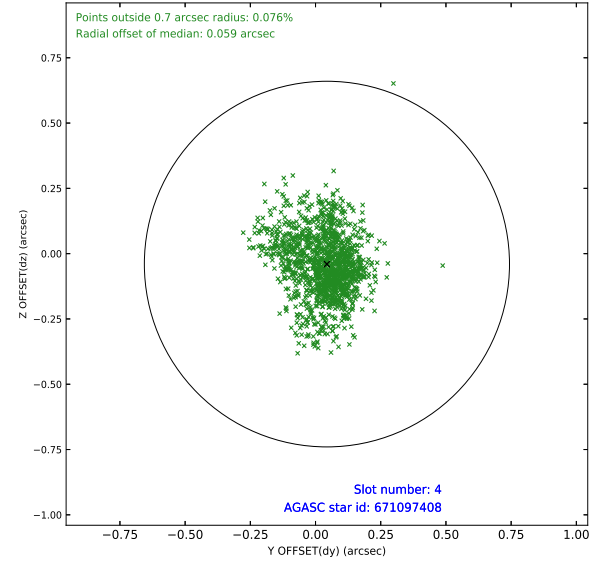
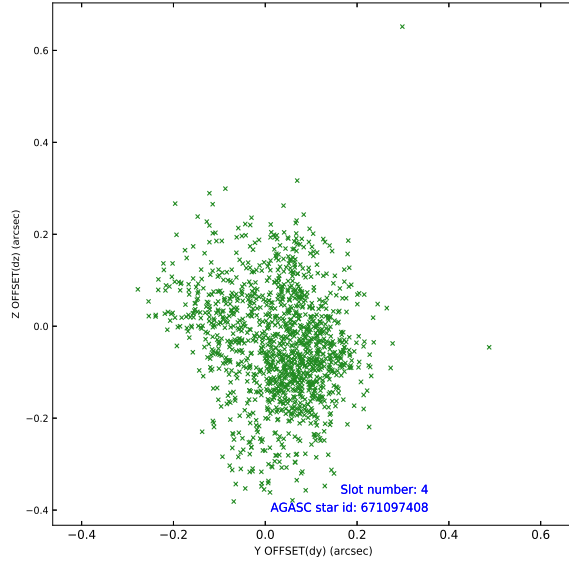
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.20	659	1.000	0.245	-0.171	0.011	0.019	0.000000	0.000000	925.89	-843
1	FID		ACIS-I-5	7.21	659	1.000	-0.324	0.208	0.006	0.010	0.000000	0.000000	-1821.28	1053
2	FID		ACIS-I-6	7.21	659	1.000	-0.011	0.032	0.009	0.015	0.000000	0.000000	388.84	1699
3	GUIDE	used	671097280	7.93	1314	1.000	0.009	0.009	0.108	0.197	279.260722	-4.615333	-1518.19	-1633
4	GUIDE	used	671097408	8.91	1316	1.000	0.044	-0.040	0.159	0.271	279.103689	-4.643447	-1586.39	-2202
5	GUIDE	used	671224352	6.81	1317	1.000	-0.033	-0.021	0.086	0.148	280.197595	-4.496426	-941.43	1704
6	GUIDE	used	671226160	7.02	1318	1.000	0.104	-0.298	0.130	0.196	279.439431	-4.806794	-672.37	-1220
7	GUIDE	used	671225736	8.70	1315	1.000	-0.113	0.360	0.149	0.288	280.232114	-4.084450	-2322.17	2260

2.4 Star Slots

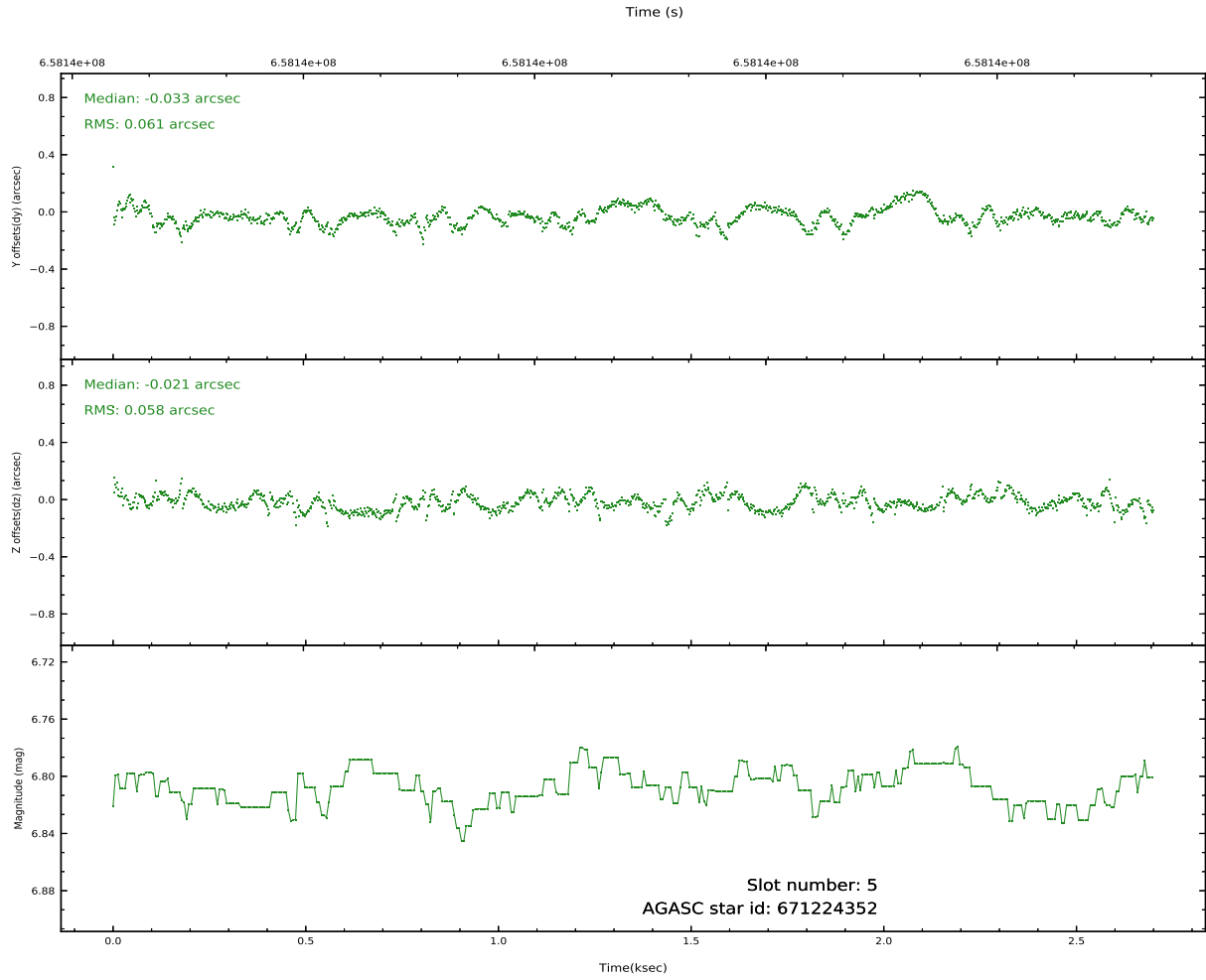
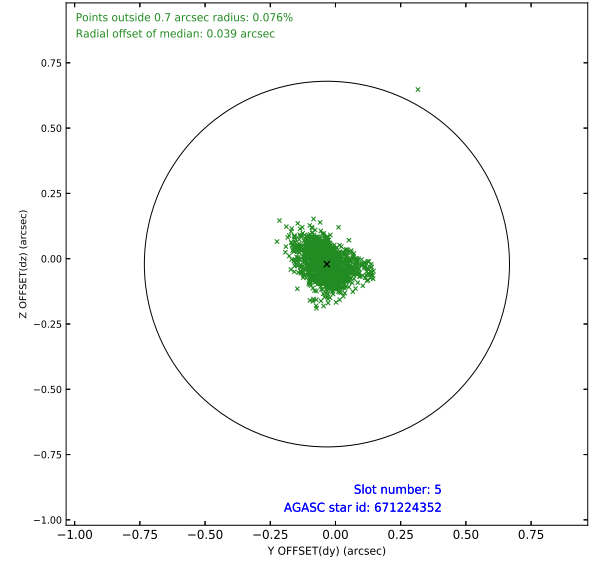
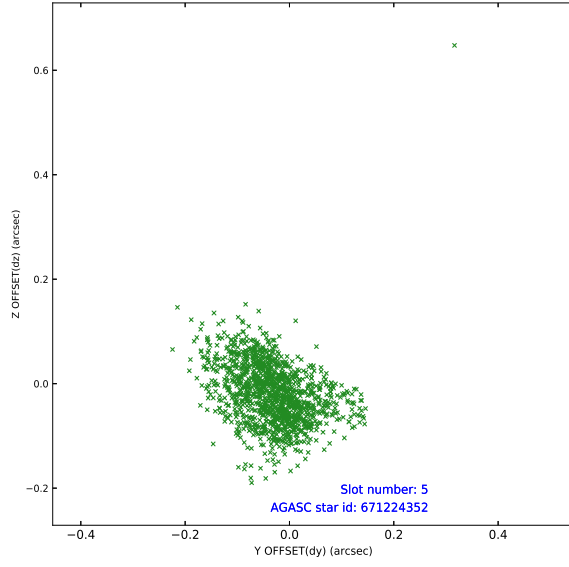
2.4.1 Slot 3



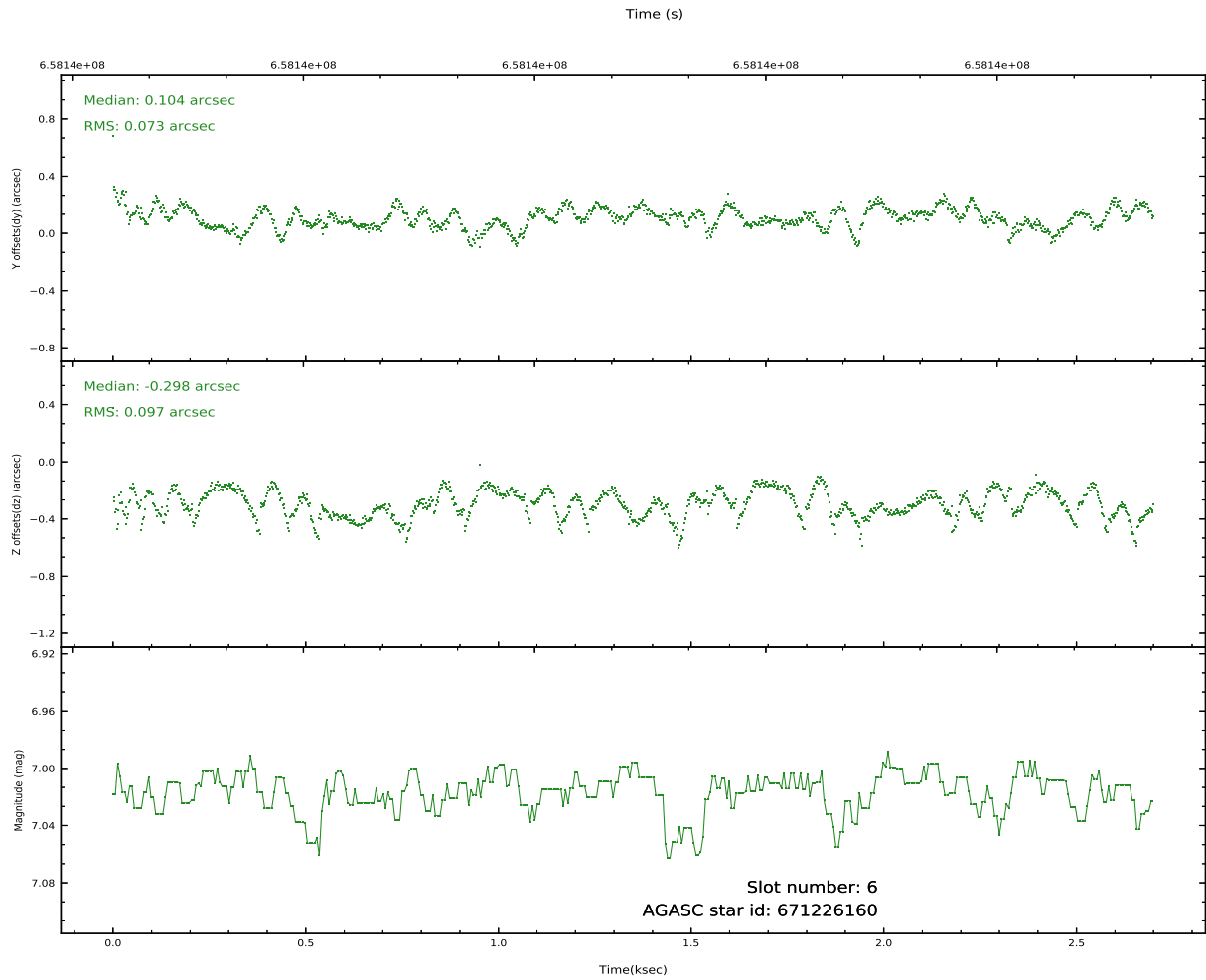
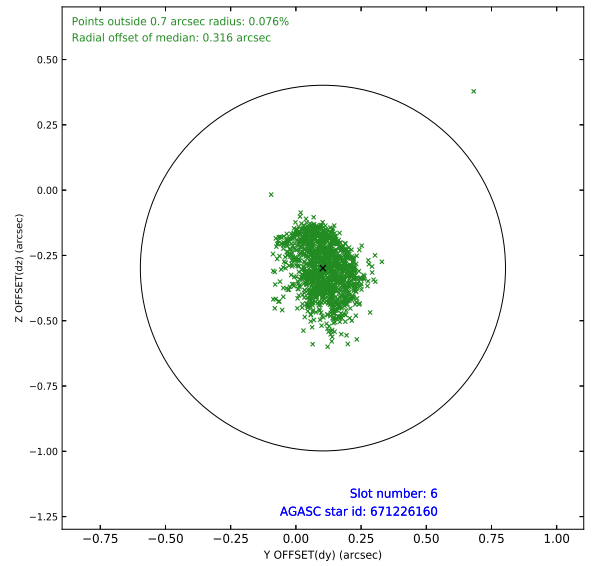
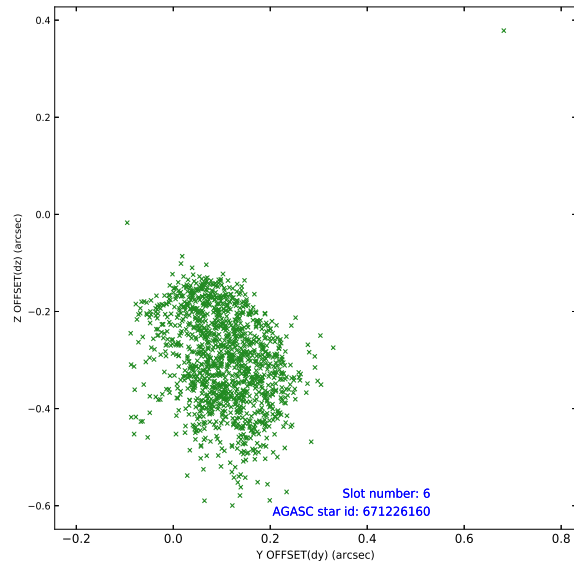
2.4.2 Slot 4



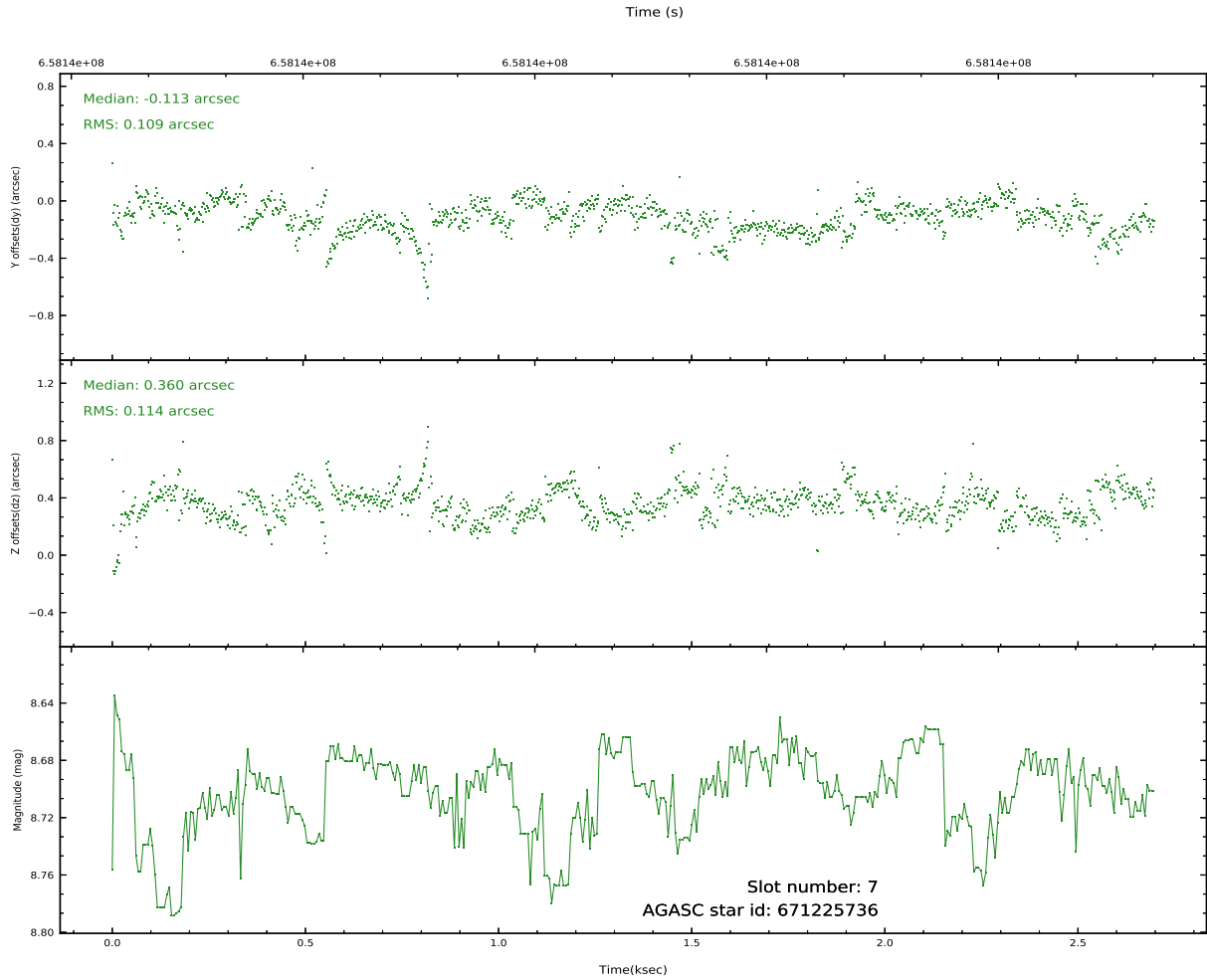
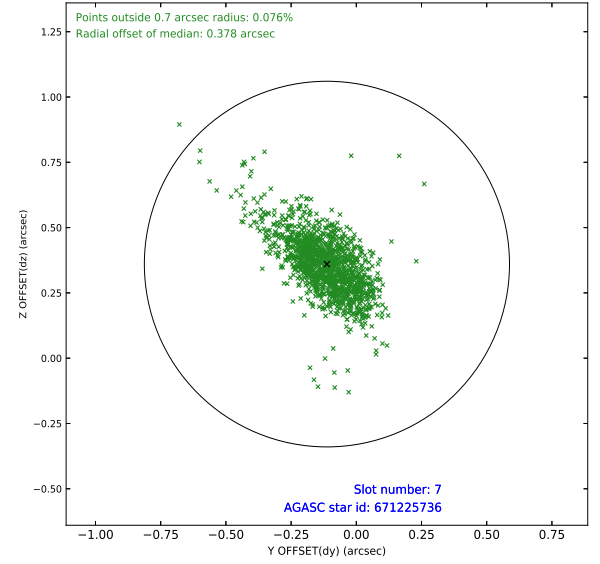
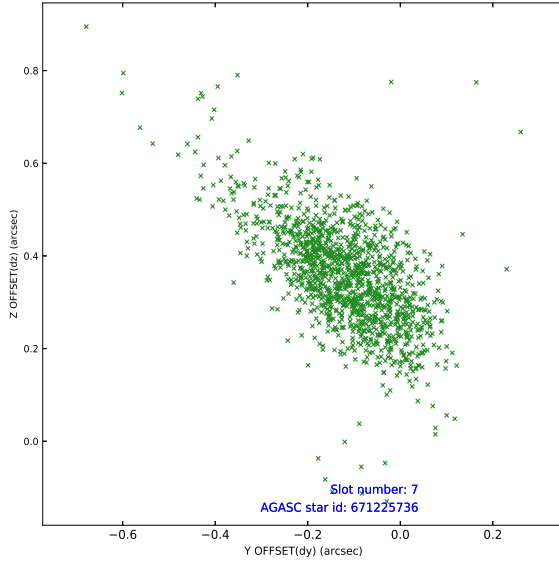
2.4.3 Slot 5



2.4.4 Slot 6

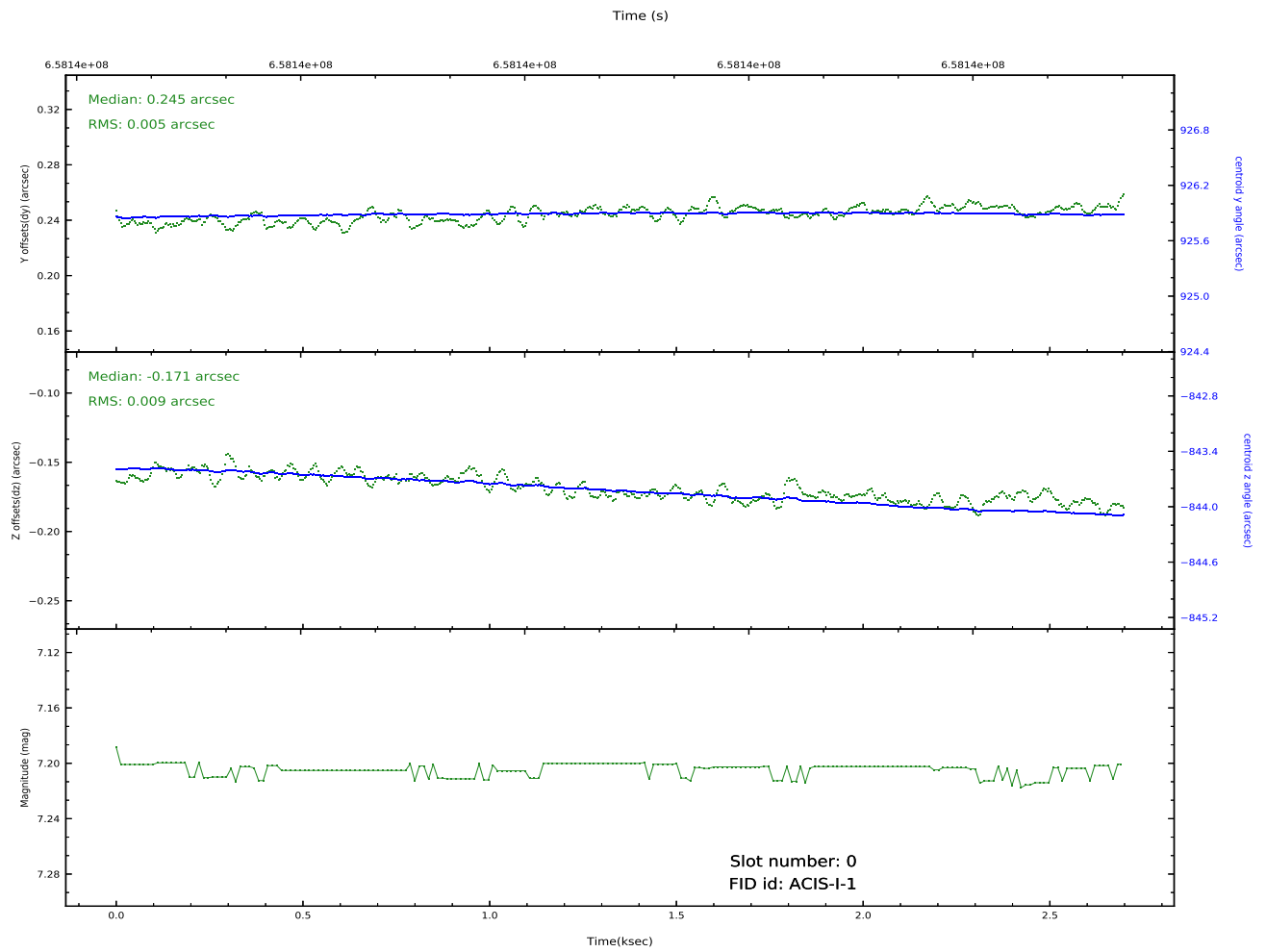
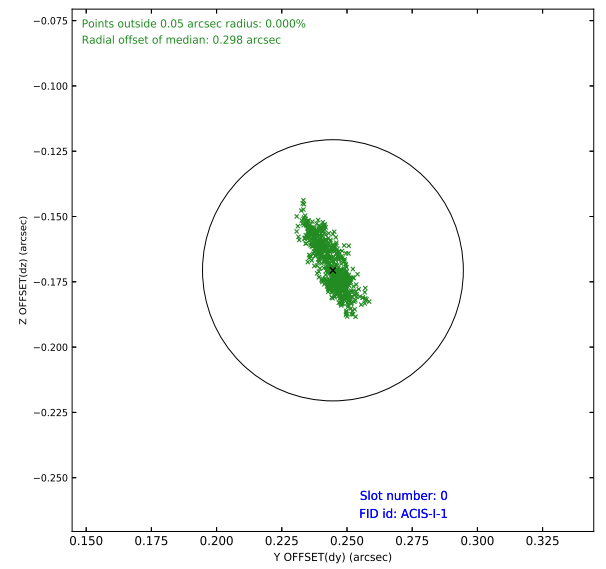
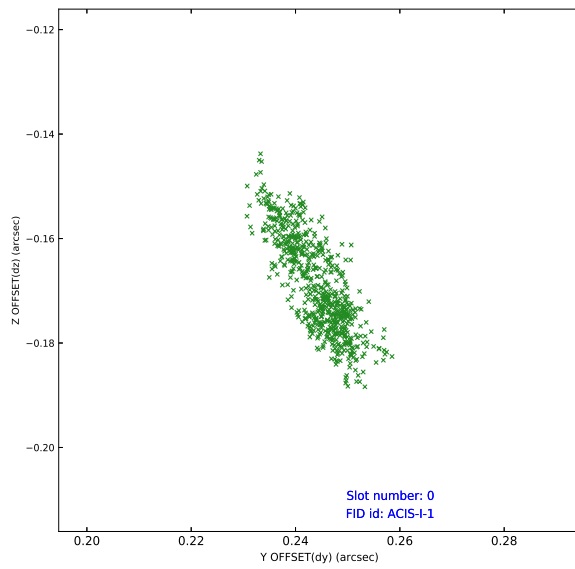


2.4.5 Slot 7

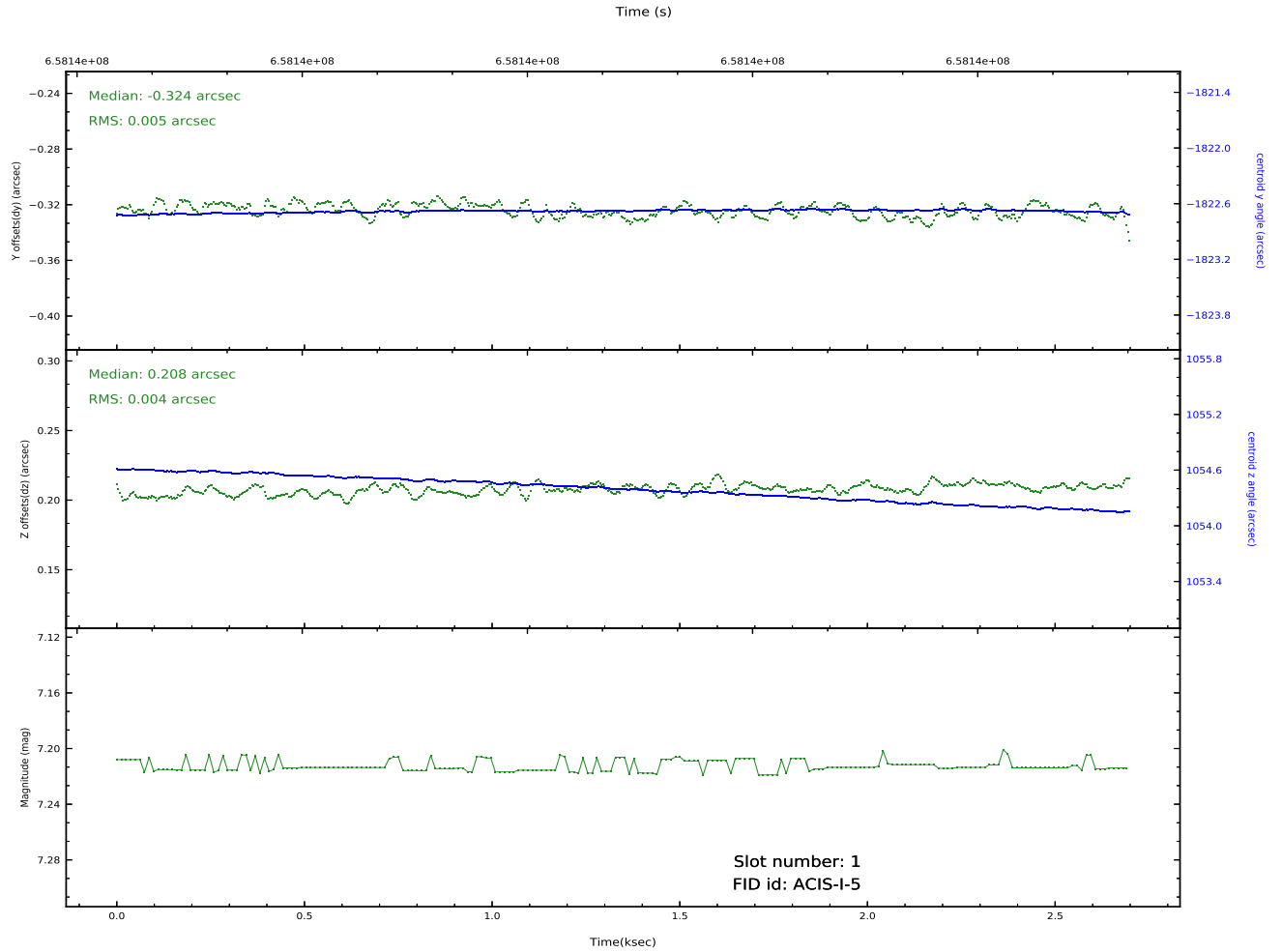
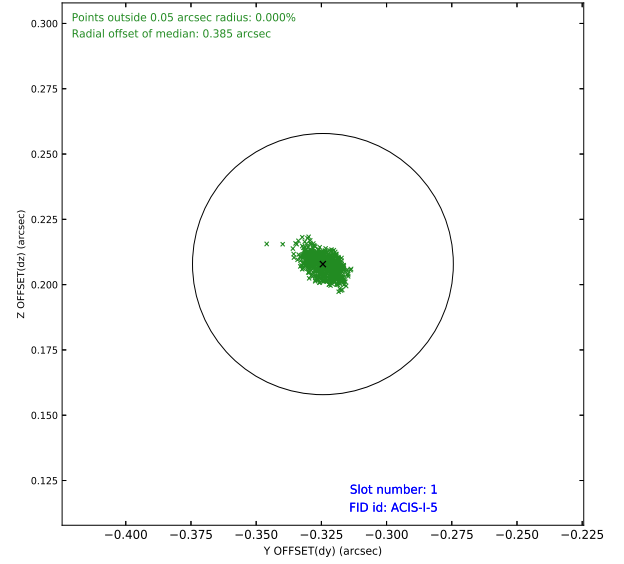
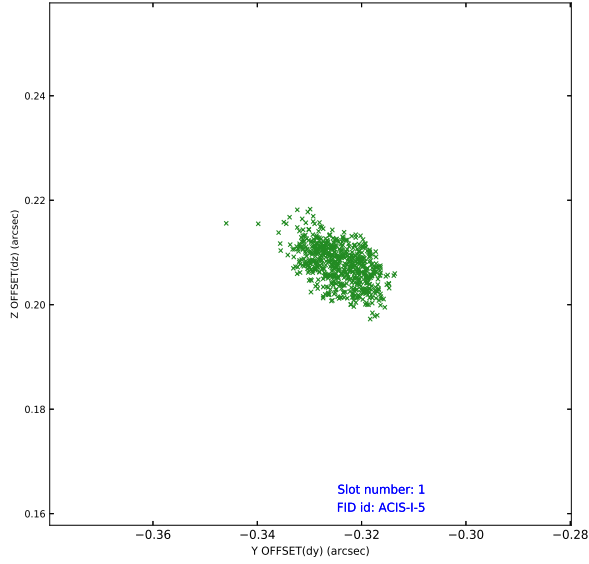


2.5 FID Slots

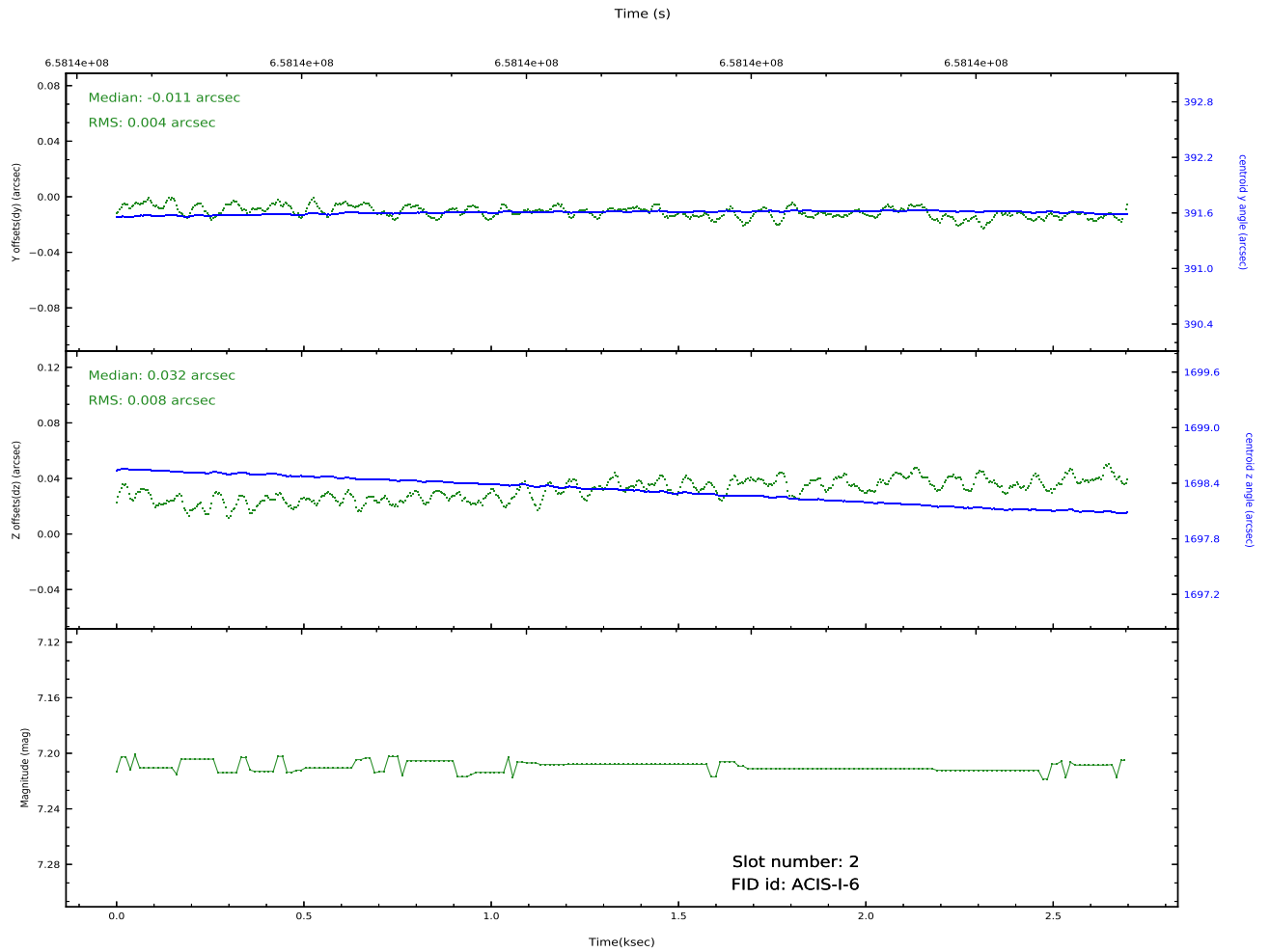
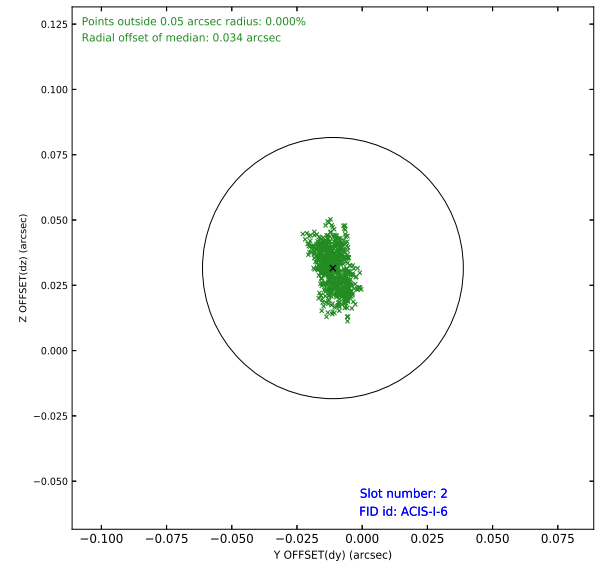
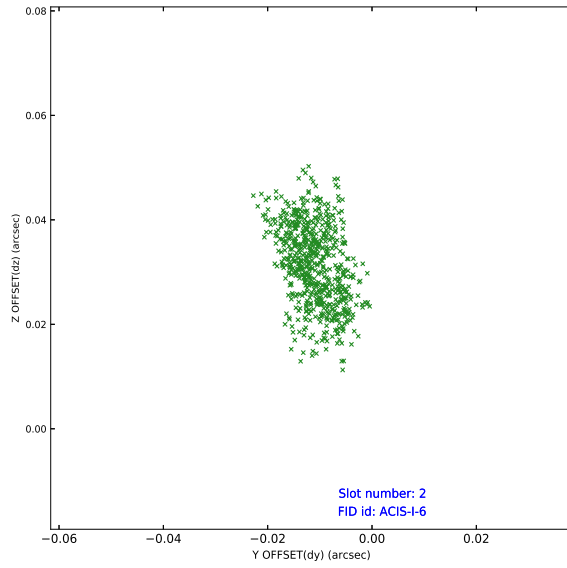
2.5.1 Slot 0



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)	2020.10.29
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.5761000199318

A.2 Comments