

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5001 - L2 Version 4
Chandra X-Ray Center

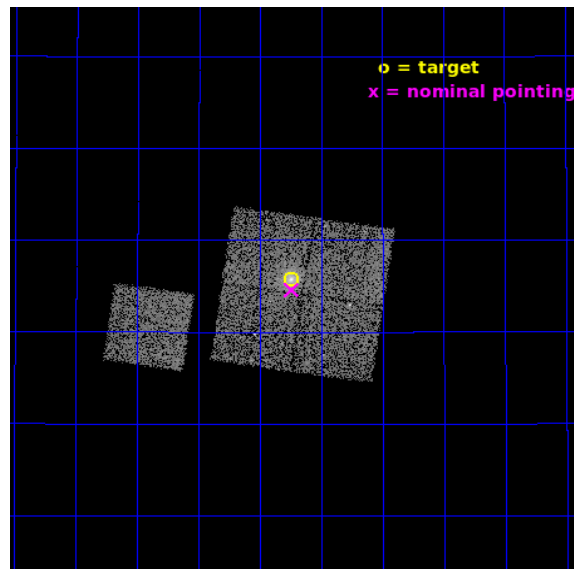
L2 Processing Date : Oct 5 2020

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1 Front

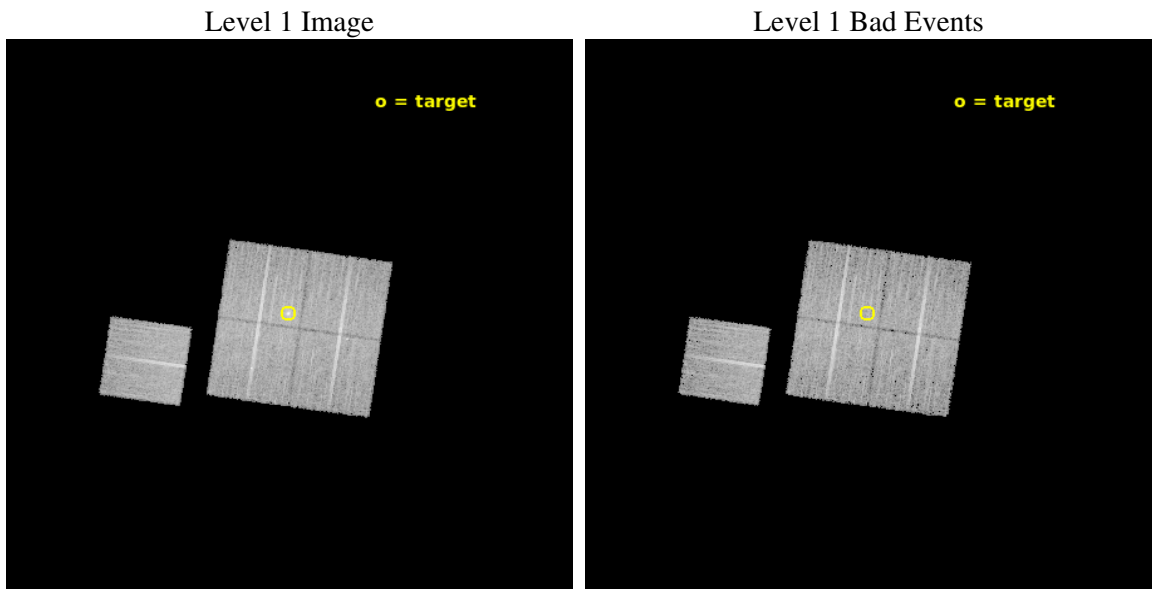
seq_num	800444	Sequence number
obs_id	5001	Observation id
title	Study of Candidate 'Fossil Groups	Proposal title
observer	Dr. Stephen Murray	Principal investigator
object	NGC777	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	30.062083	Observer's specified target RA [deg]
dec_targ	31.429444	Observer's specified target Dec [deg]
ra_nom	30.059669038406	Nominal RA [deg]
dec_nom	31.410231049717	Nominal Dec [deg]
roll_nom	278.33190243547	Nominal Roll [deg]
revision	4	Processing version of data
ontime	10167.99998042	Sum of GTIs [s]
livetime	10035.147575103	Livetime [s]
ontime0	10164.859010071	Sum of GTIs [s]
ontime1	10167.99998042	Sum of GTIs [s]
ontime2	10167.99998042	Sum of GTIs [s]
ontime3	10167.99998042	Sum of GTIs [s]
ontime6	10161.717990041	Sum of GTIs [s]
l2events	31141	Number of level 2 events



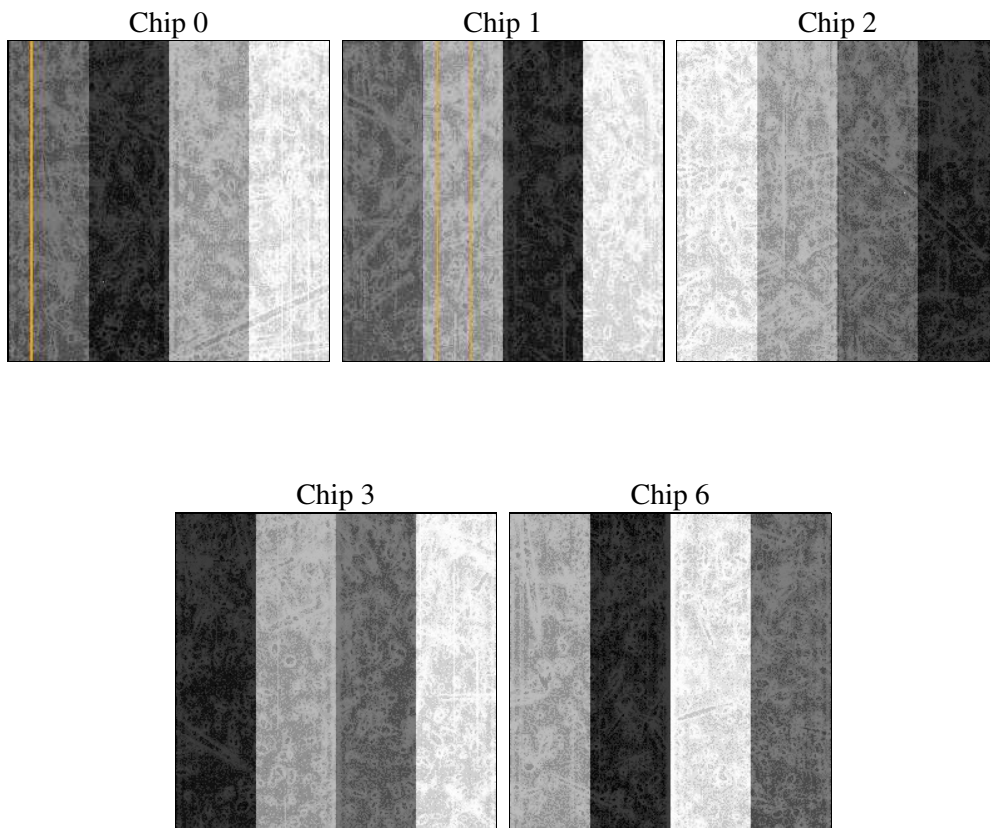
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	3	Obi number	sched_exp_time	10120.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	10167.99998042	Sum of GTIs [s]
caldsver	4.9.2	 	ontime0	10164.859010071	Sum of GTIs [s]
date	2020-10-05T18:18:35	Date and time of file creation	ontime1	10167.99998042	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	10167.99998042	Sum of GTIs [s]
			ontime3	10167.99998042	Sum of GTIs [s]
			ontime6	10161.717990041	Sum of GTIs [s]
			l1events	347370	Number of level 1 events

2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	64087	66793	72169	73666	70655
rejected events	57350	59345	65286	64426	63949
rejected %	89%	88%	90%	87%	90%

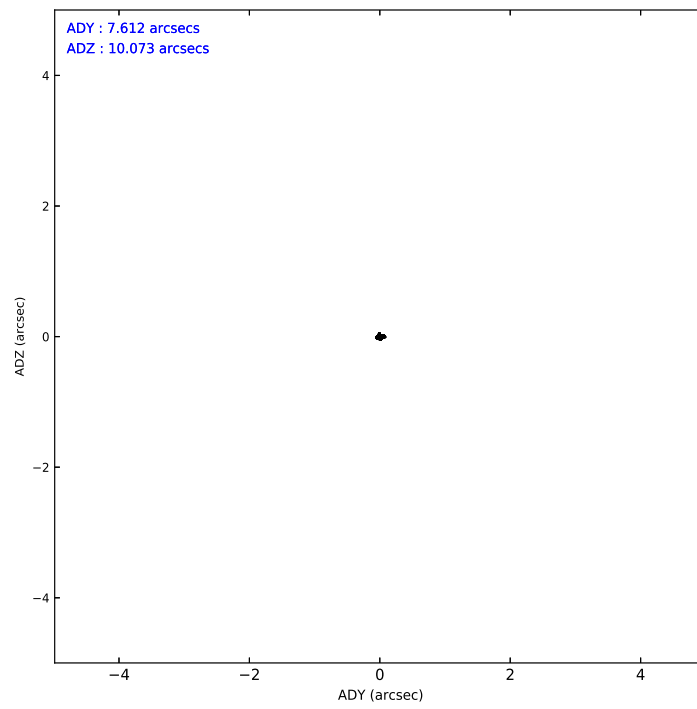
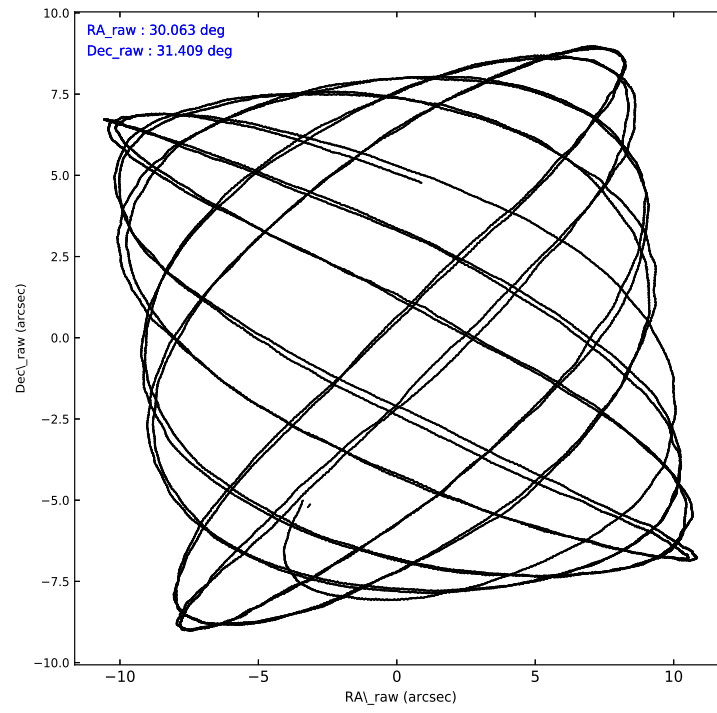
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	2440	2666	2648	4808	2270
	3%	3%	3%	6%	3%
grade 1 events	27	29	47	52	47
	0%	0%	0%	0%	0%
grade 2 events	1566	1624	1553	1548	1439
	2%	2%	2%	2%	2%
grade 3 events	758	868	751	812	787
	1%	1%	1%	1%	1%
grade 4 events	740	814	752	759	742
	1%	1%	1%	1%	1%
grade 5 events	2321	2510	2256	2732	2537
	3%	3%	3%	3%	3%
grade 6 events	1235	1478	1182	1316	1470
	1%	2%	1%	1%	2%
grade 7 events	55000	56804	62980	61639	61363
	85%	85%	87%	83%	86%

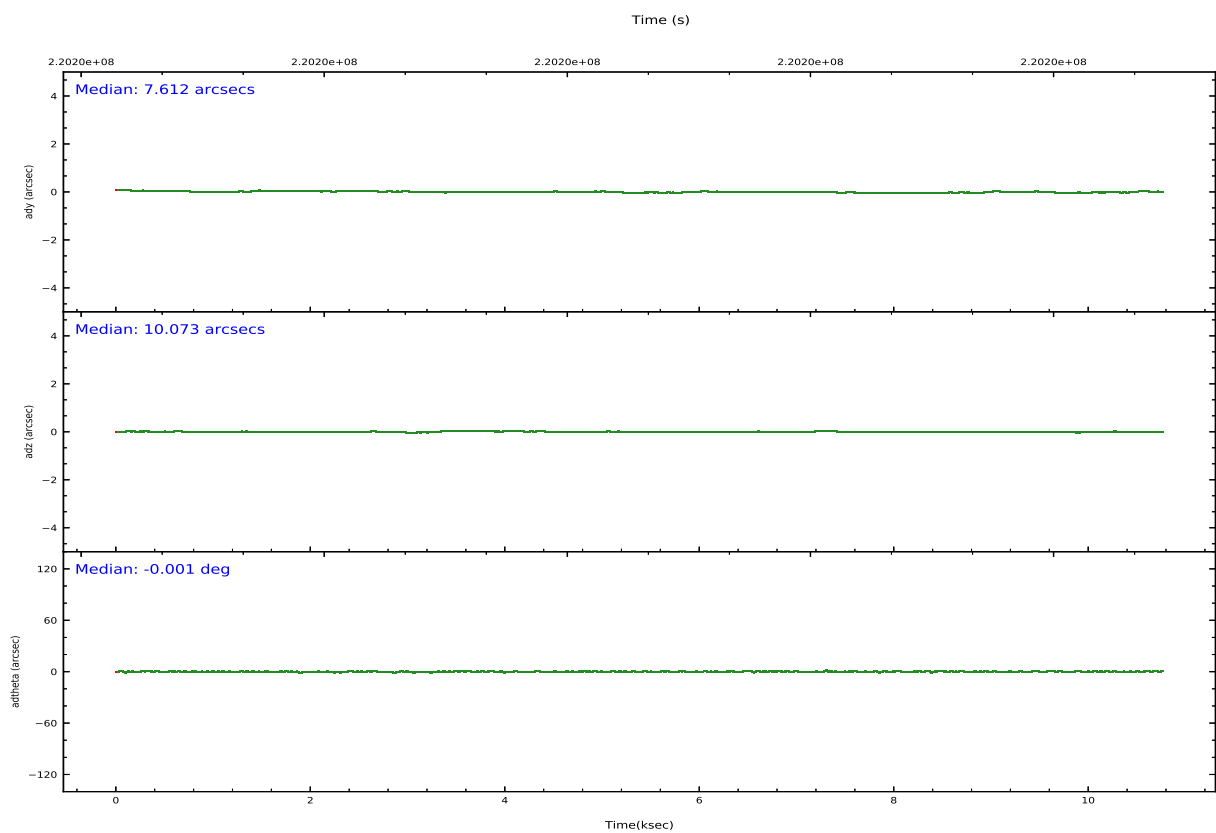
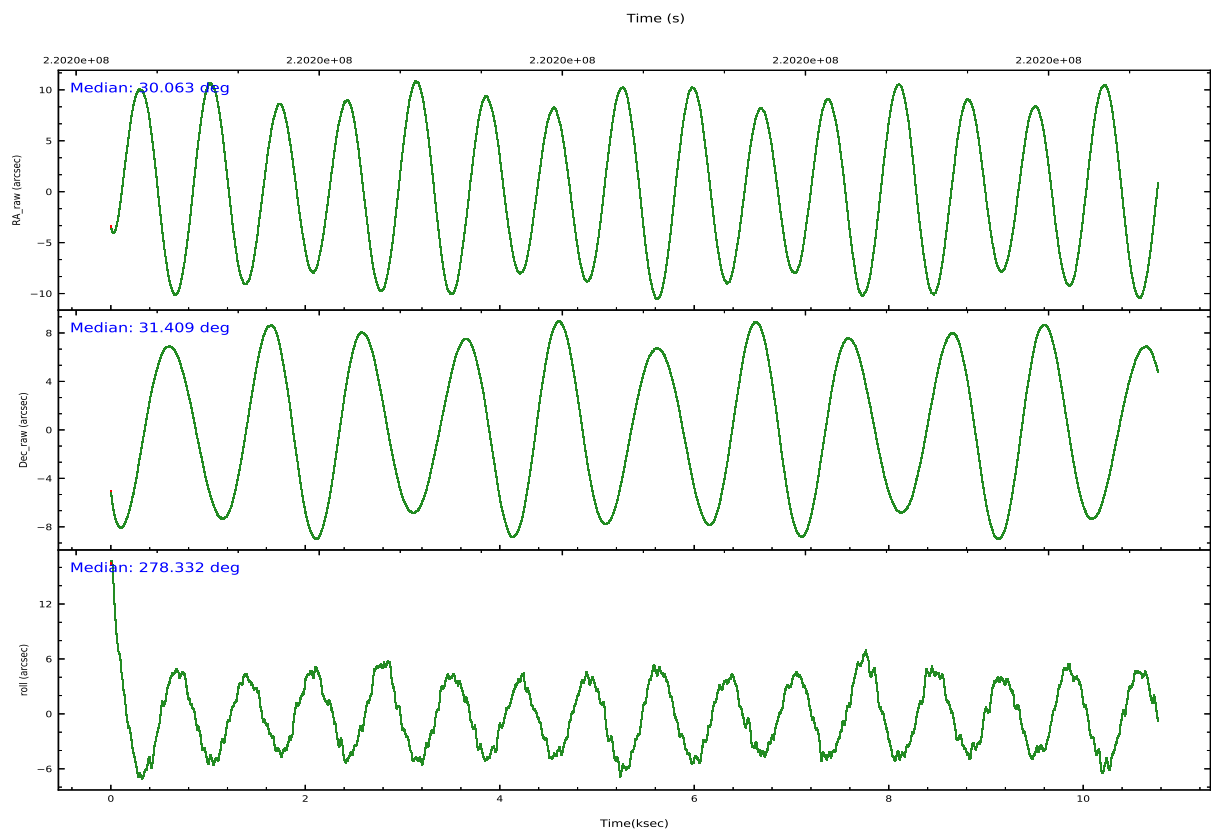
2.2 Compared Parameters

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	30.043469	30.059669038406
[deg] Pointing Dec	31.429864	31.410231049717
[deg] Pointing Roll	278.142300	278.33190243547
[mm] SIM focus pos	-0.782348	-0.7809083437167272
[mm] SIM defocus	0	0.001439871863259334
[mm] SIM translation stage pos	-231.592463	-231.5986110572947
[mm] SIM translation stage offset	-2	-1.993841945634955
[s] Observation start time (MET)	220196007.184000	220194845.29162
Observation start date	2004-12-23T13:32:23	2004-12-23T13:14:05
[s] Observation end time (MET)	220206127.184000	220207004.35466
Observation end date	2004-12-23T16:21:03	2004-12-23T16:36:44
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



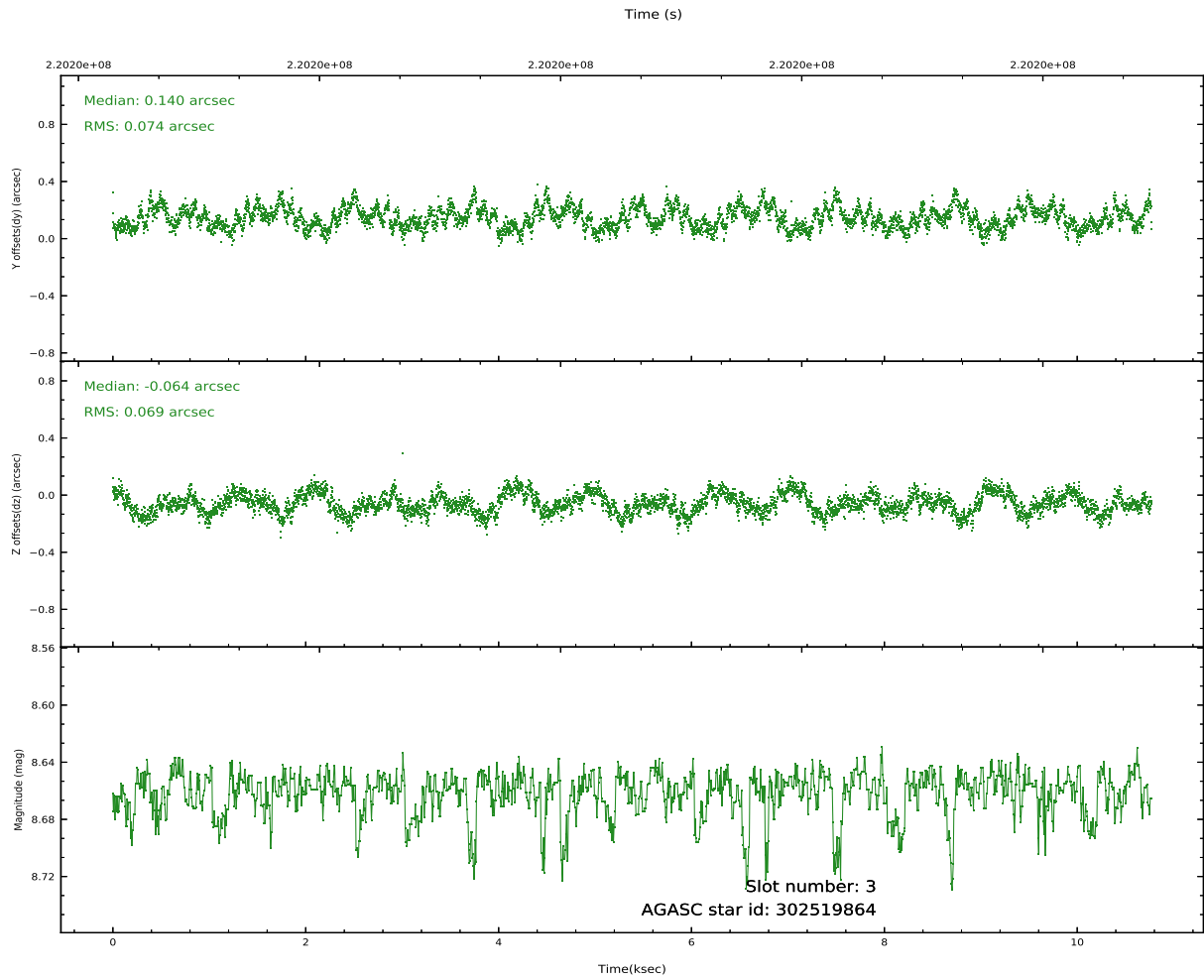
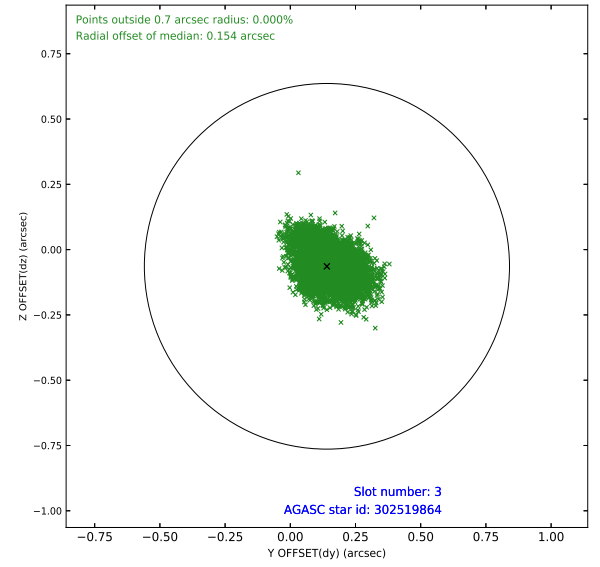
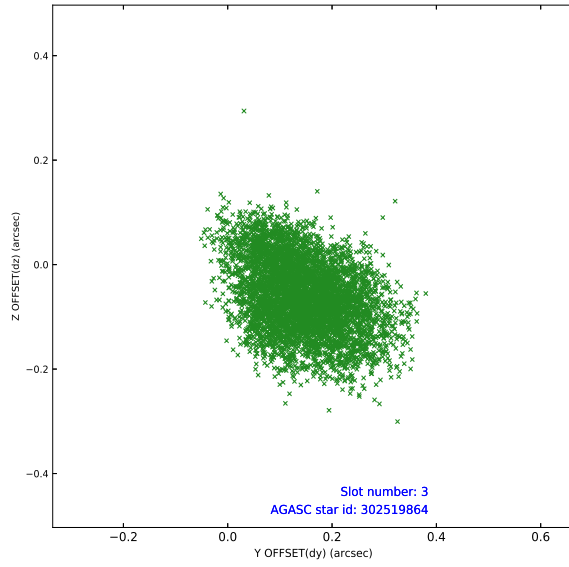


Slot Statistics

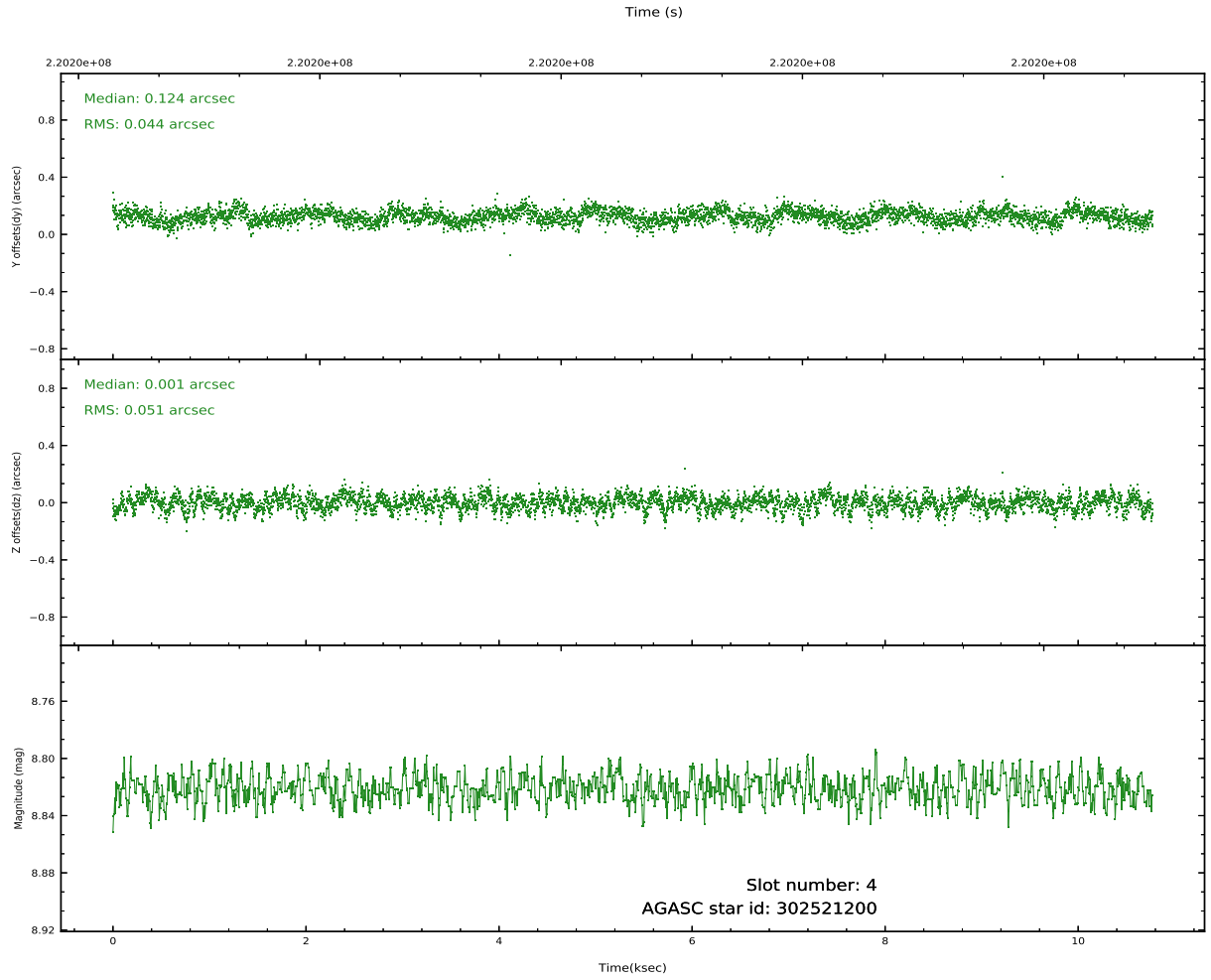
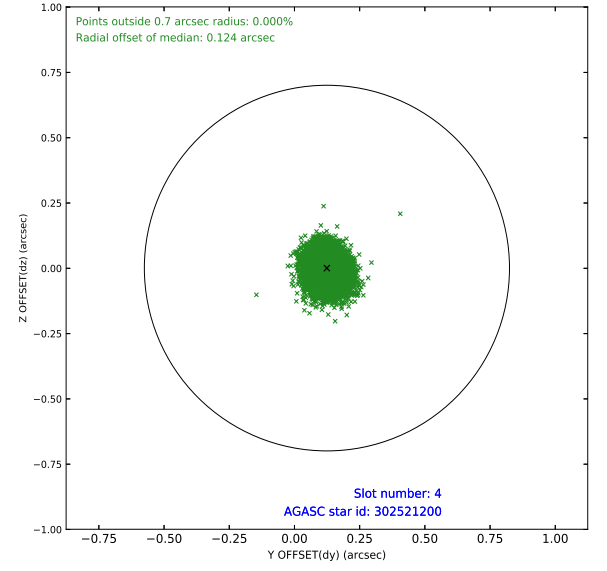
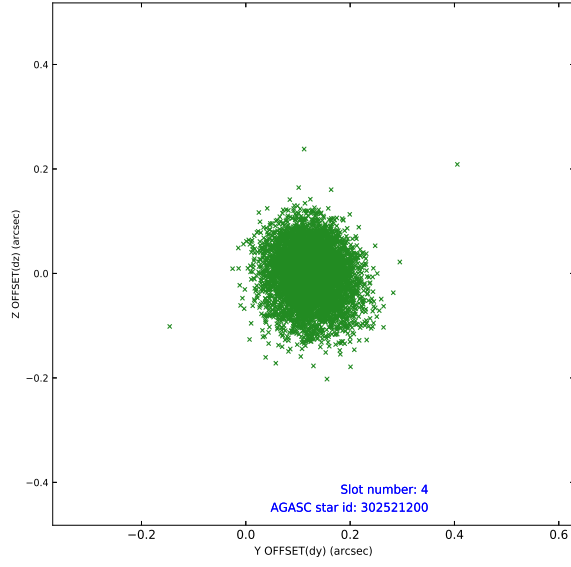
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.24	2628	1.000	0.050	-0.048	0.006	0.012	0.000000	0.000000	932.05	-874
1	FID		ACIS-I-5	7.23	2627	1.000	-0.243	0.038	0.006	0.011	0.000000	0.000000	-1816.05	1022
2	FID		ACIS-I-6	7.25	2628	1.000	0.101	0.080	0.007	0.011	0.000000	0.000000	397.17	1667
3	GUIDE	used	302519864	8.66	5255	1.000	0.140	-0.064	0.109	0.172	29.441810	30.896773	1632.37	-2110
4	GUIDE	used	302521200	8.82	5254	1.000	0.124	0.001	0.072	0.115	30.130226	31.340144	358.28	218
5	GUIDE	used	303046760	7.81	5254	1.000	-0.244	0.206	0.057	0.093	30.439087	32.121351	-2295.75	1547
6	GUIDE	used	302522088	8.10	5255	1.000	-0.007	-0.062	0.070	0.109	29.299958	31.063034	975.19	-2454
7	GUIDE	used	302524496	8.42	5253	1.000	-0.017	-0.081	0.070	0.114	29.343712	31.470012	-453.34	-2105

2.4 Star Slots

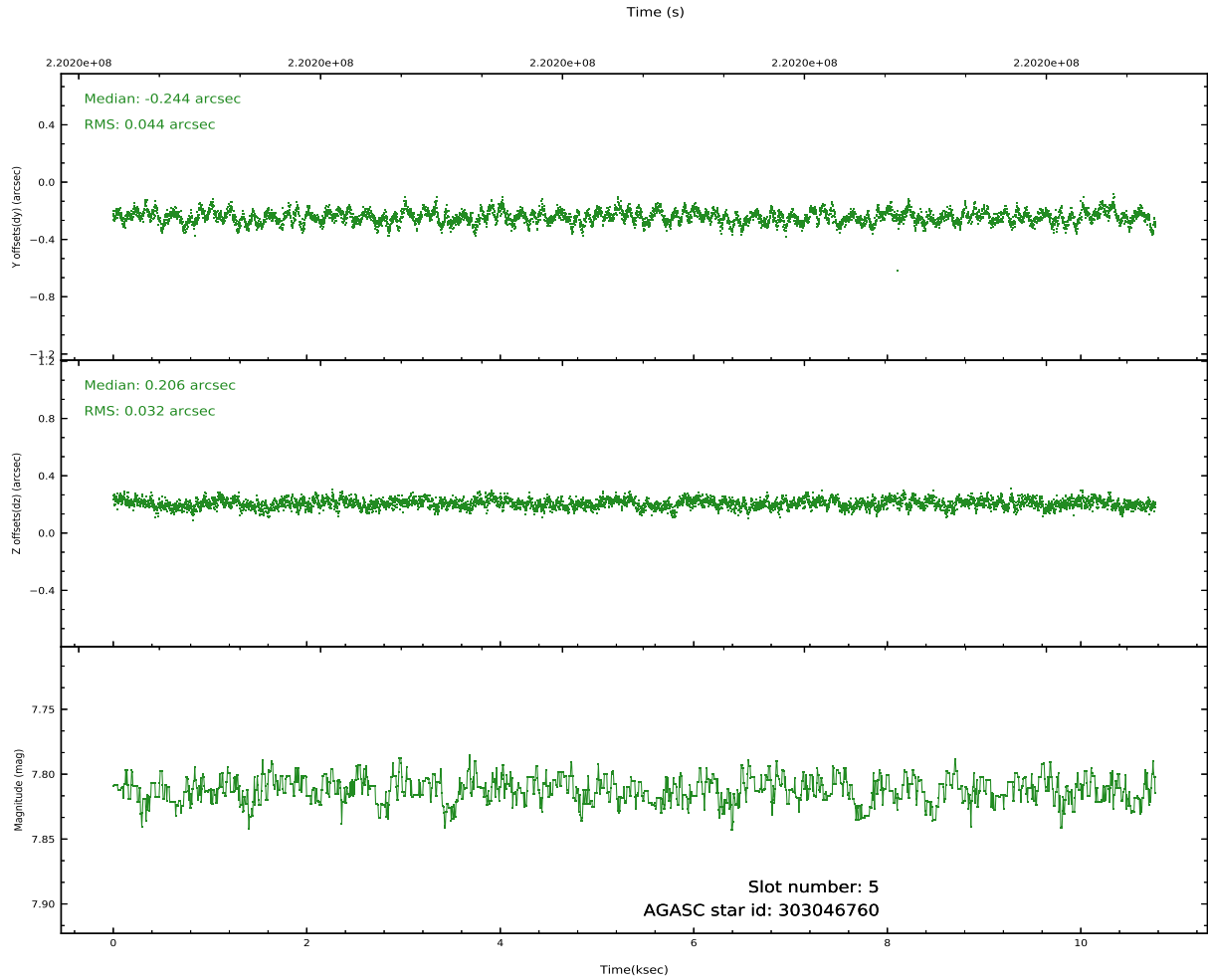
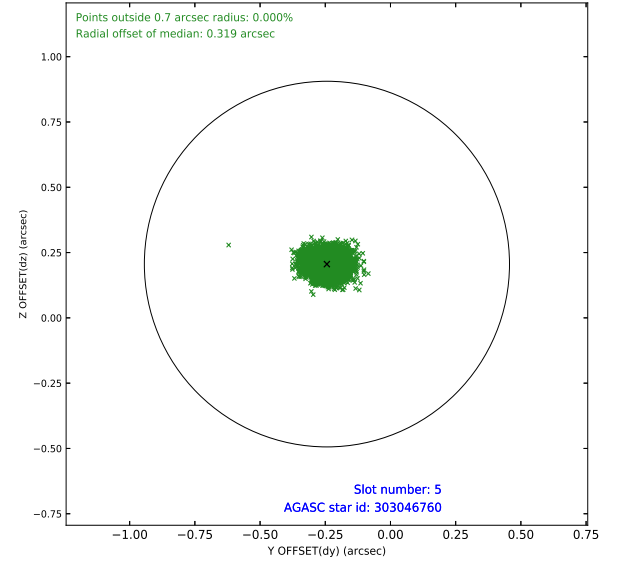
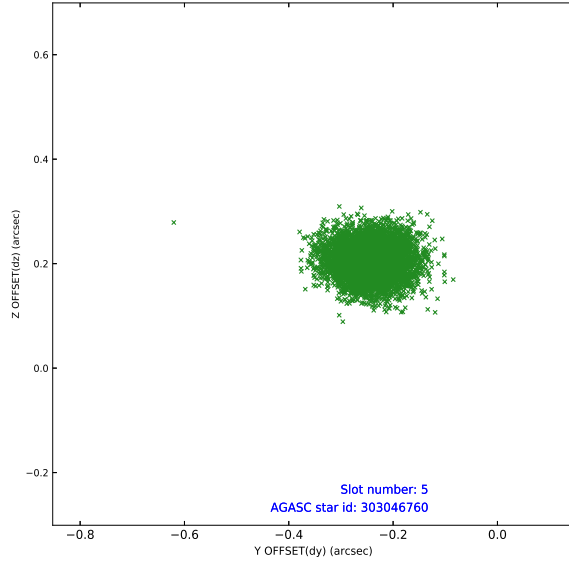
2.4.1 Slot 3



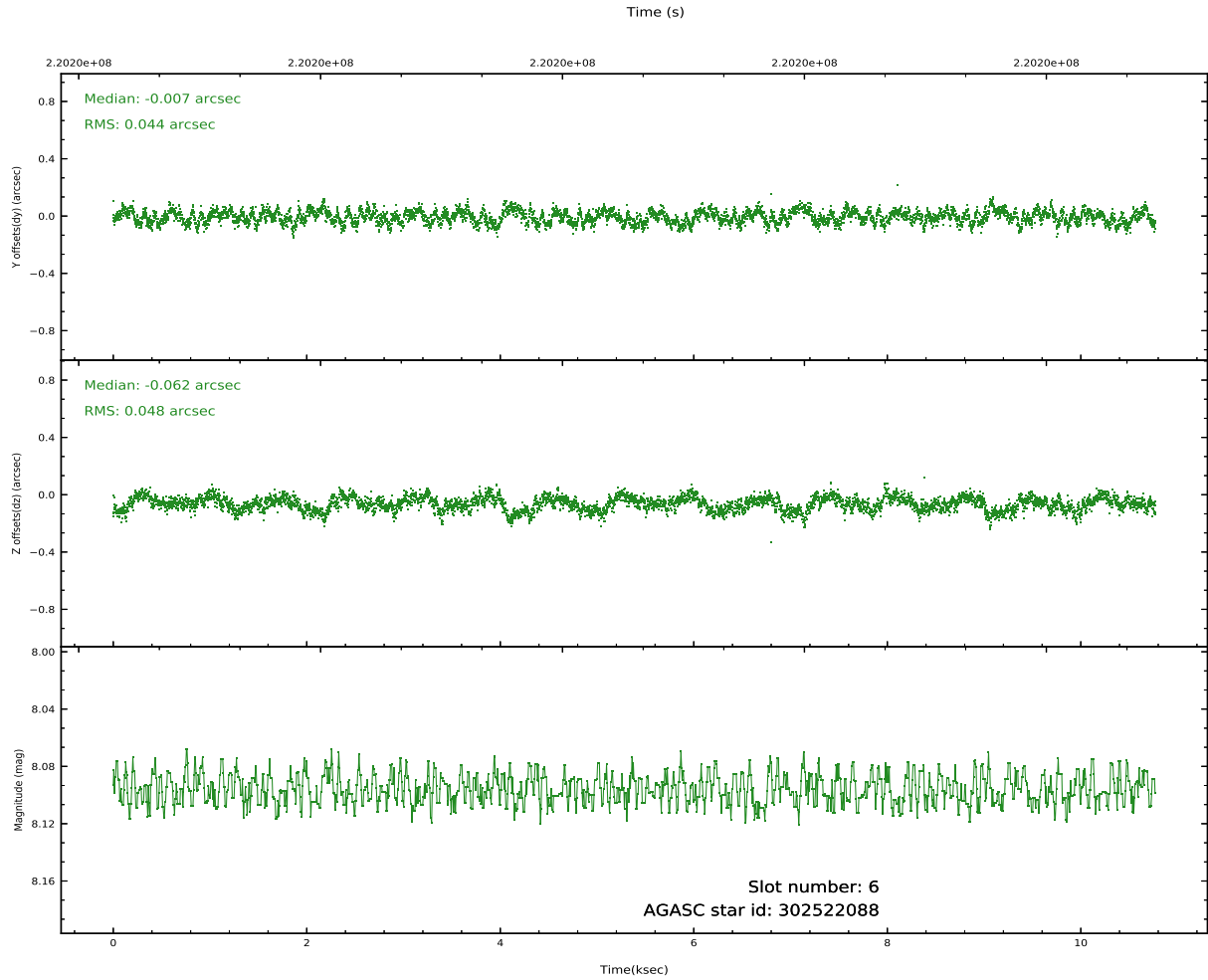
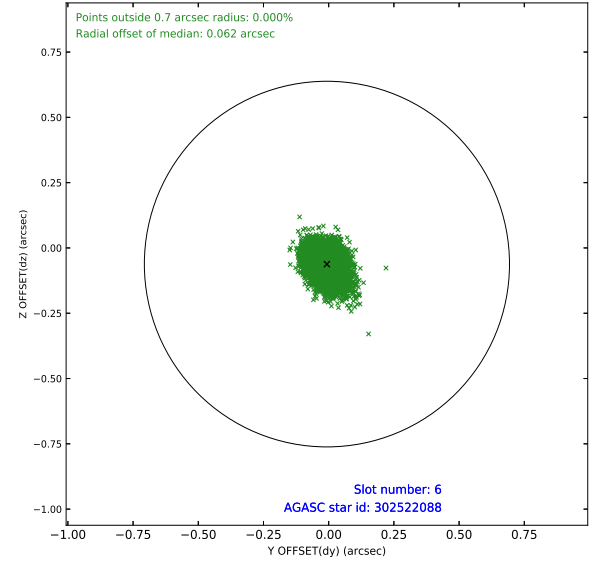
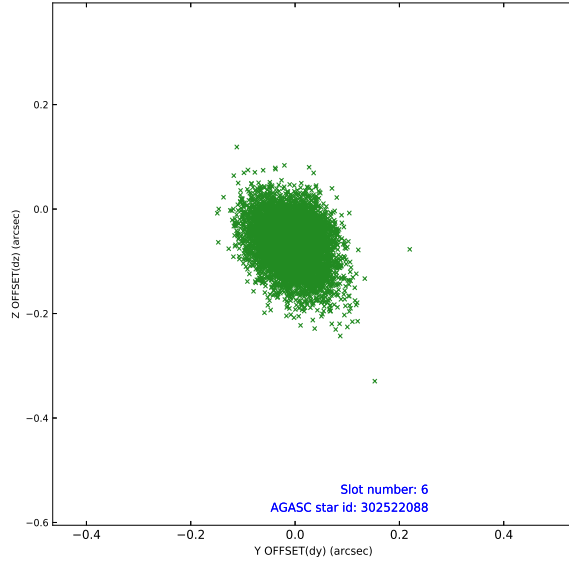
2.4.2 Slot 4



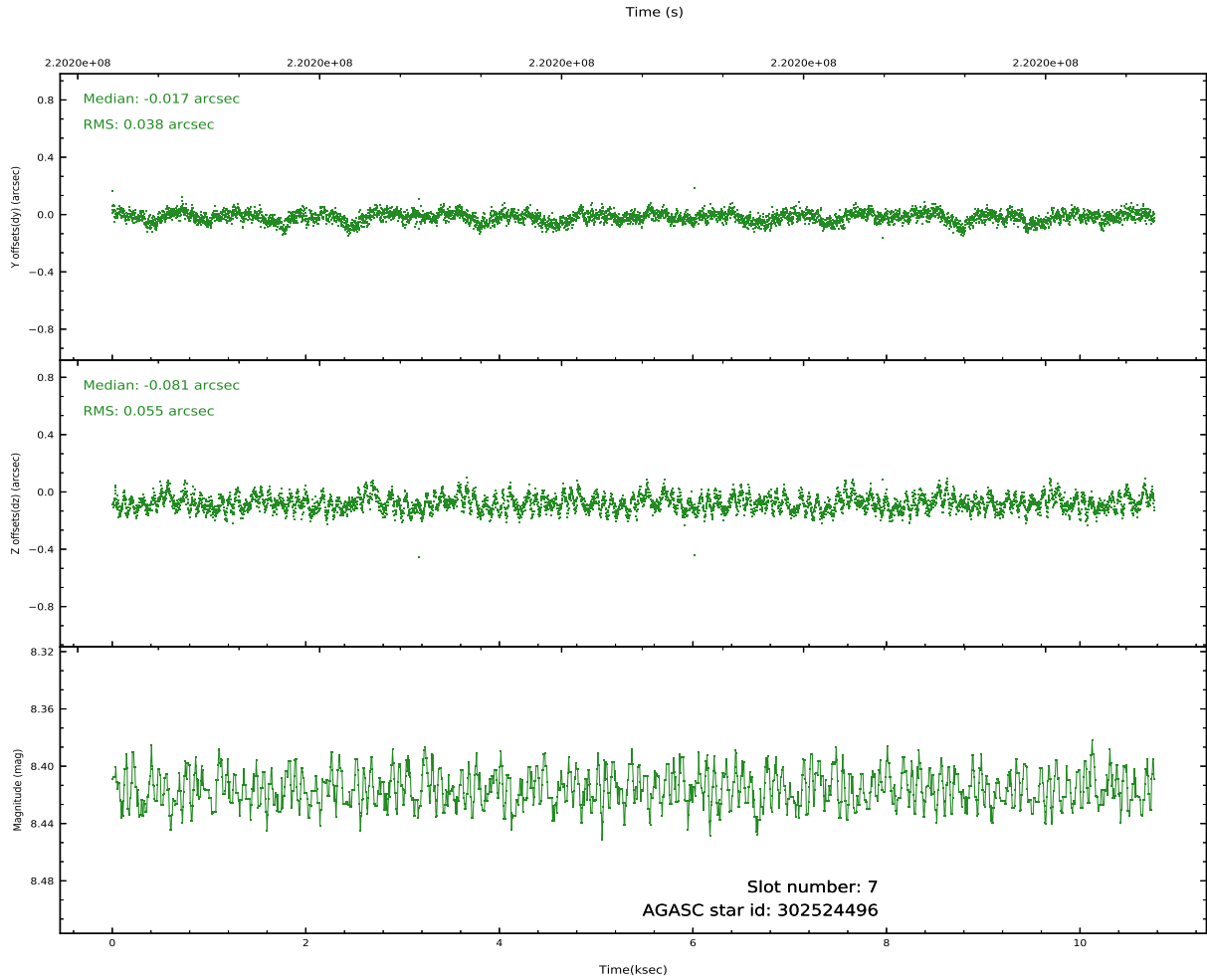
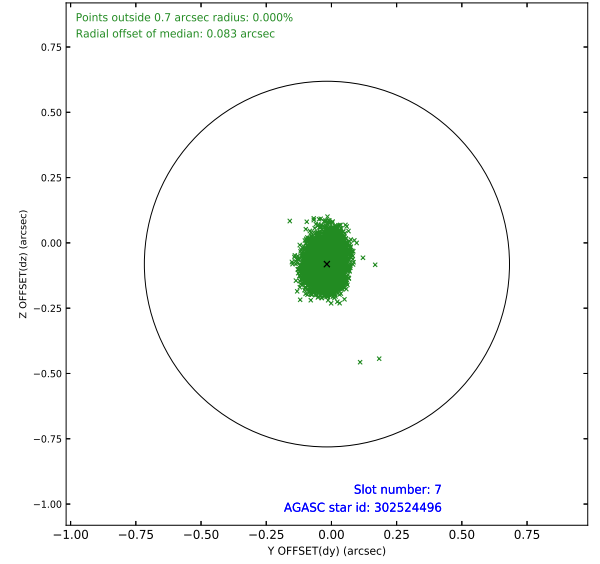
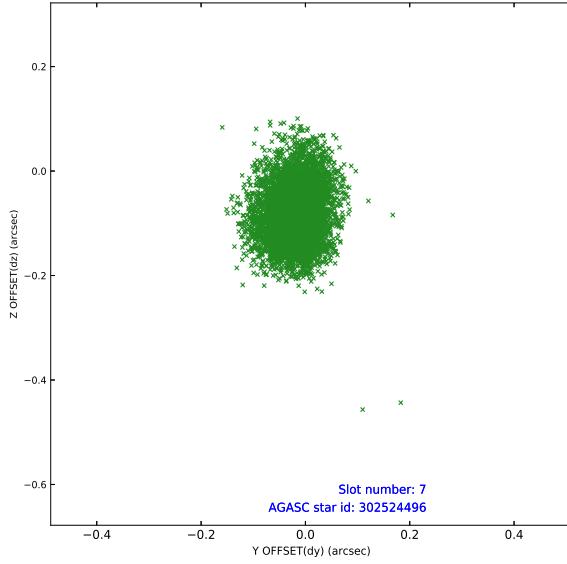
2.4.3 Slot 5



2.4.4 Slot 6

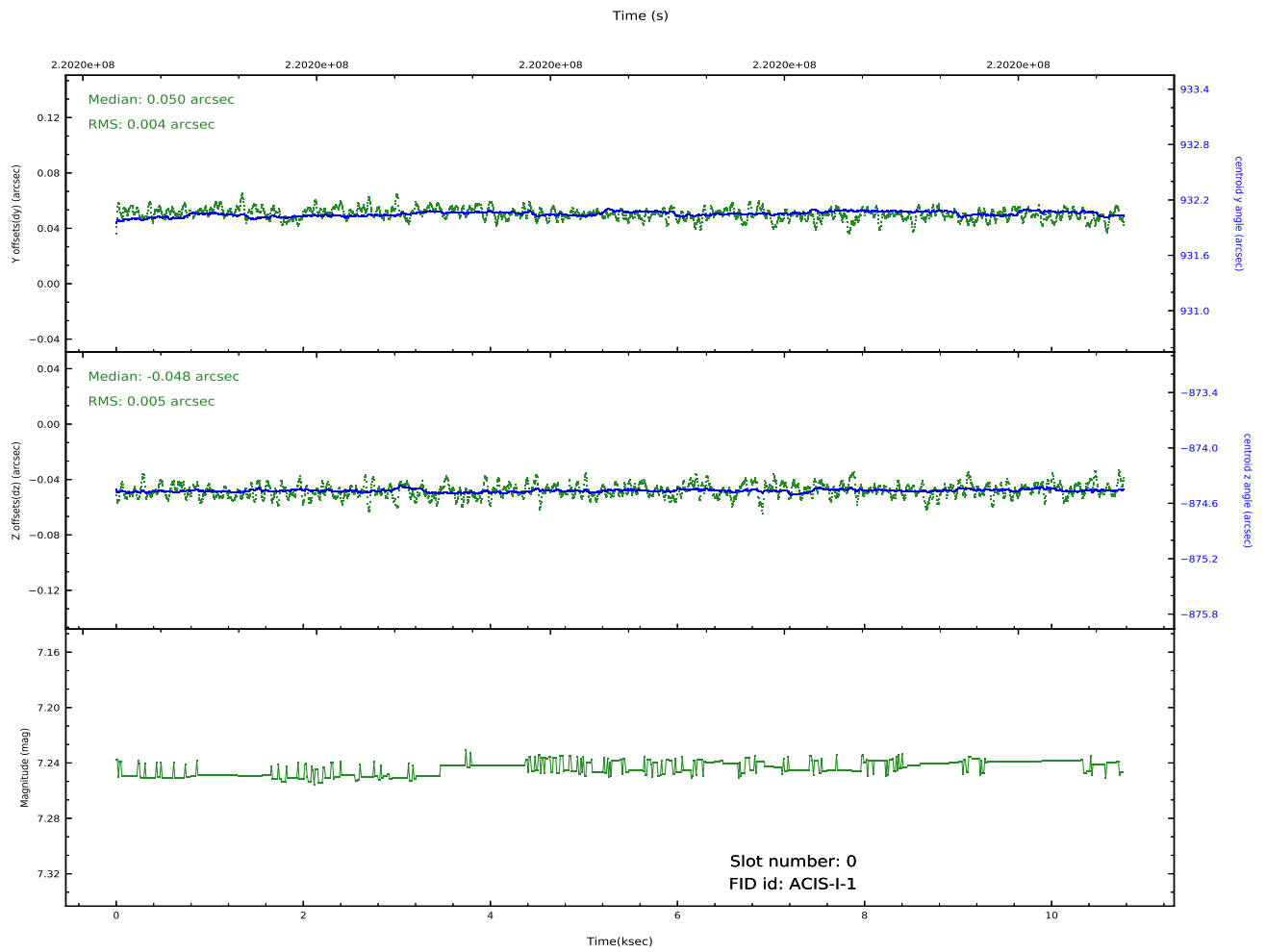
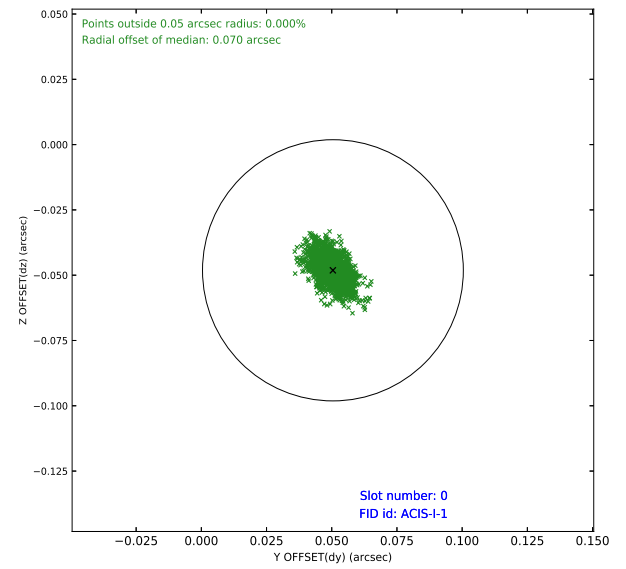
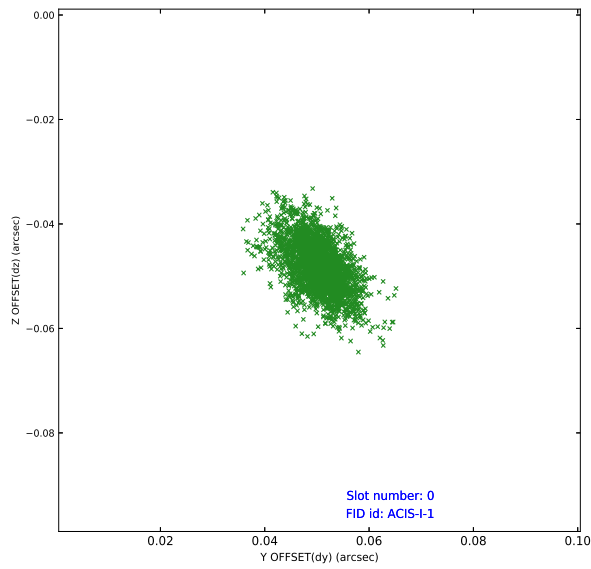


2.4.5 Slot 7

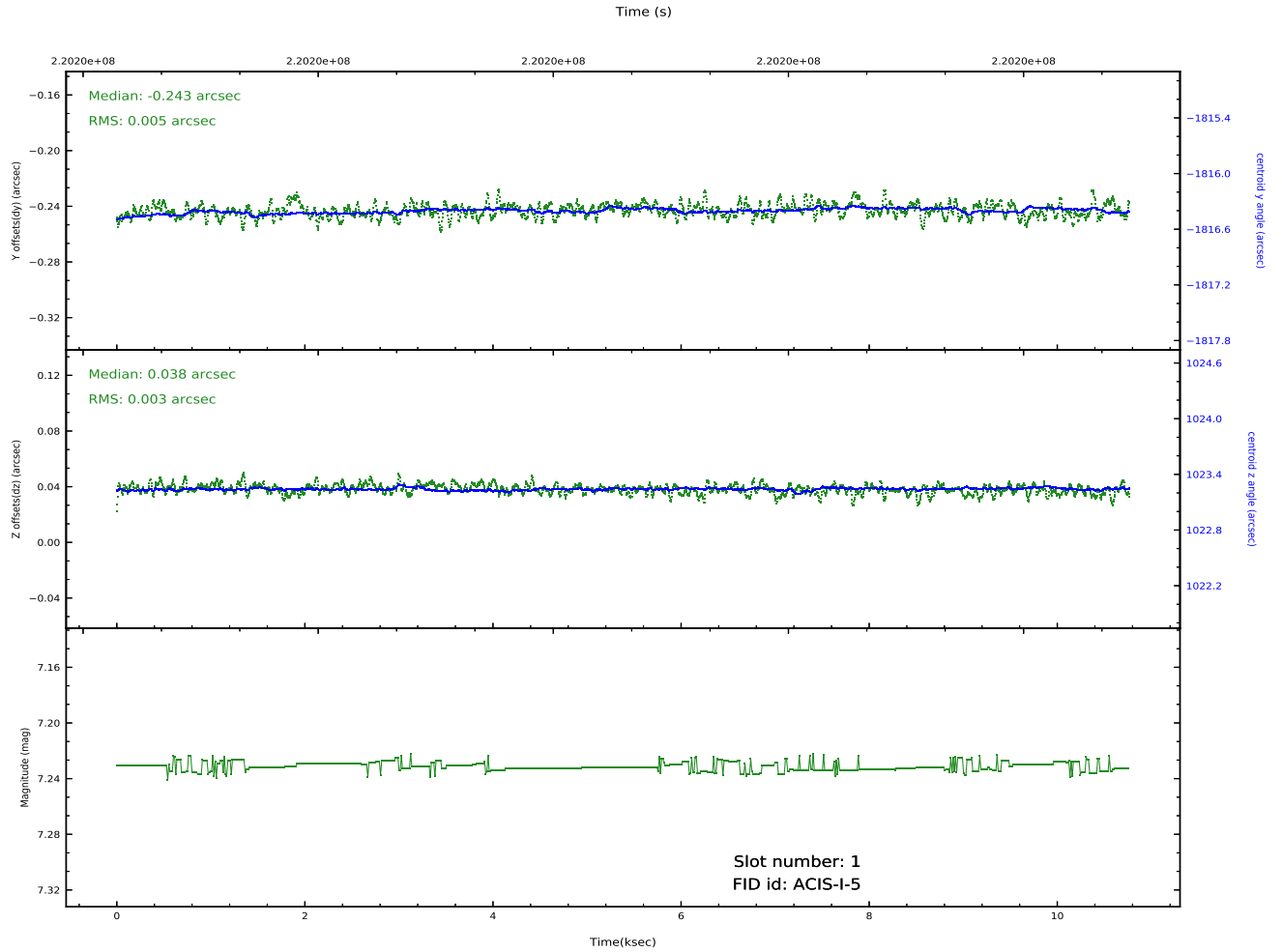
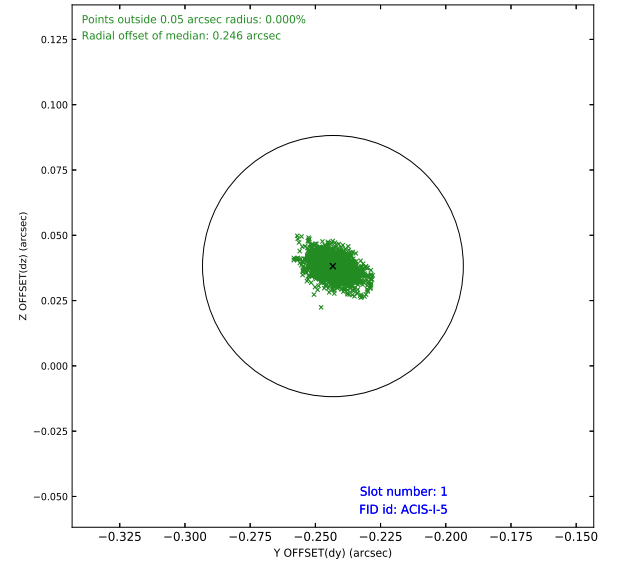
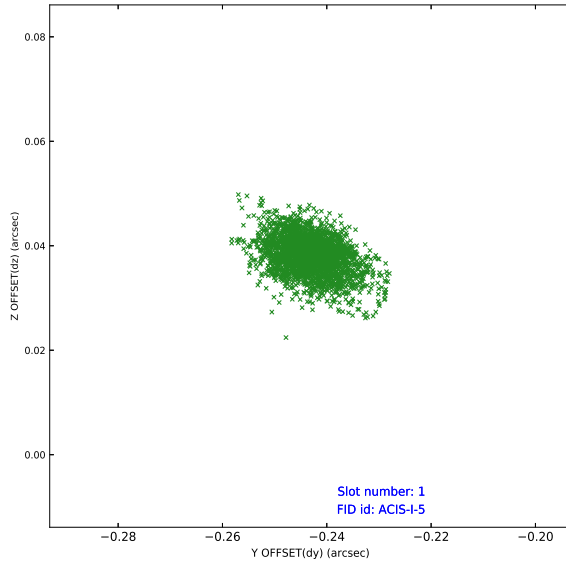


2.5 FID Slots

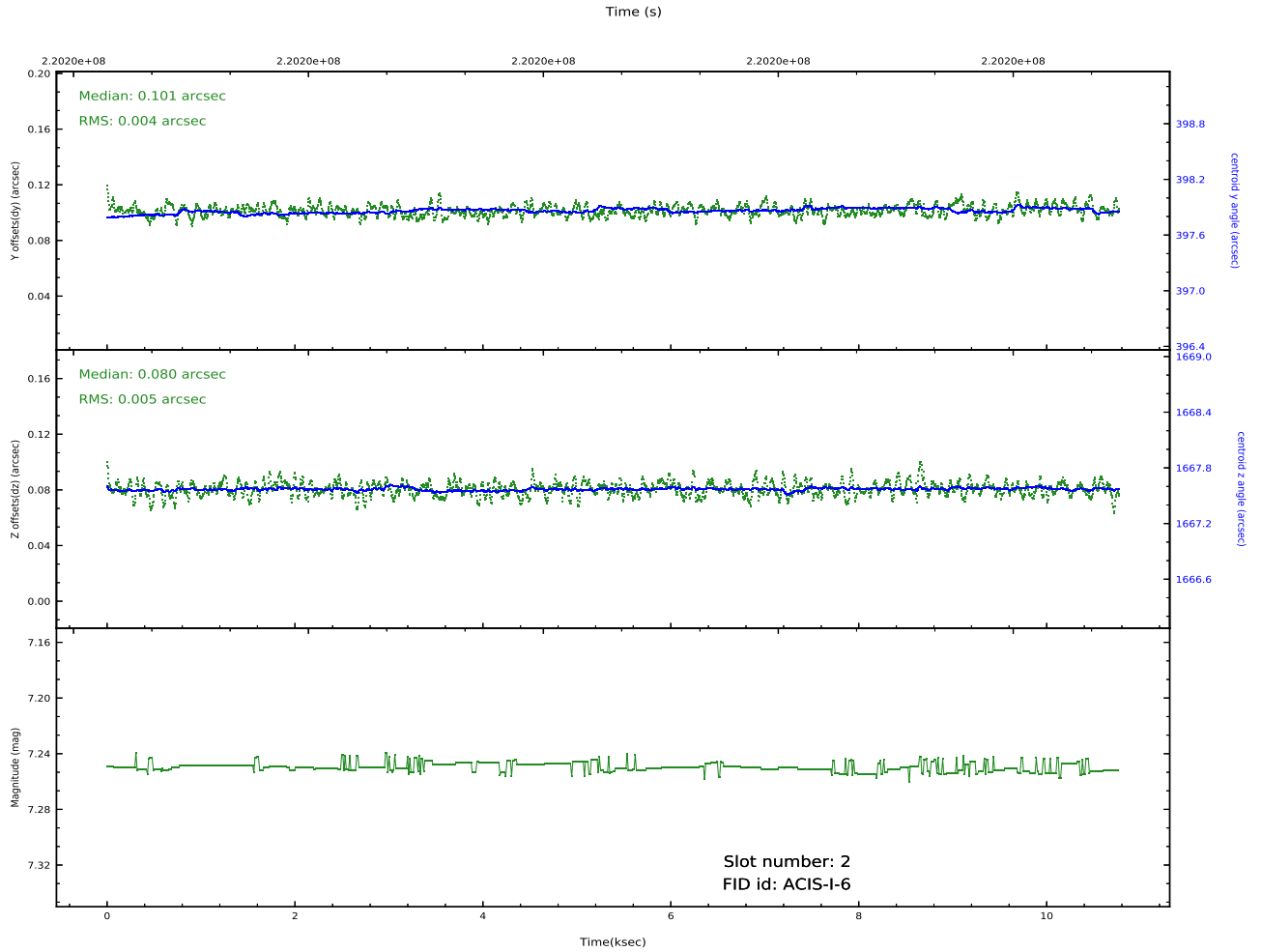
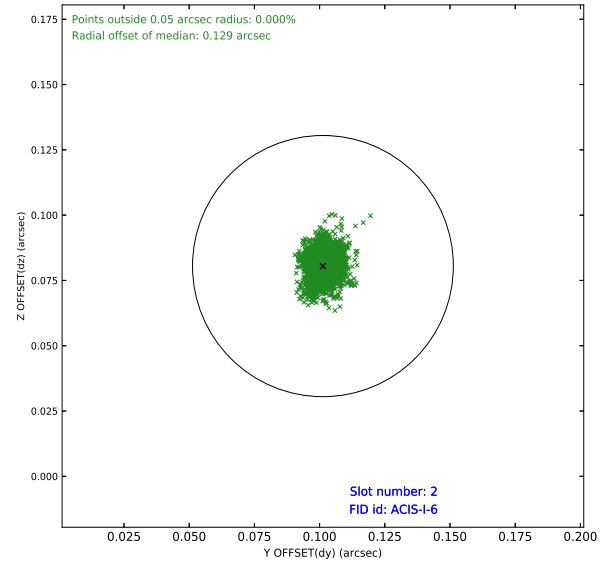
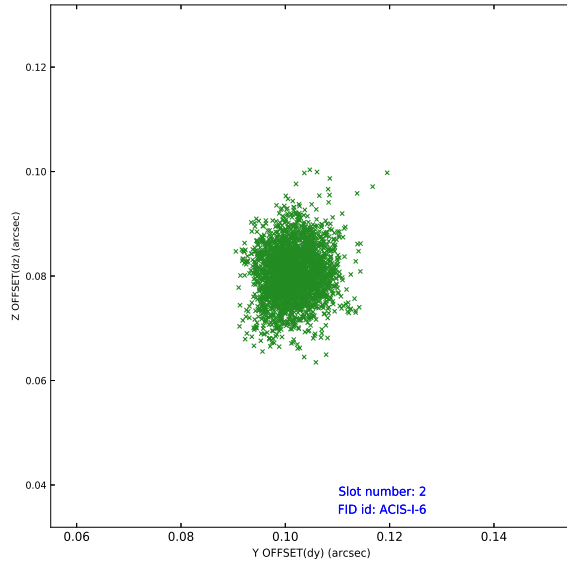
2.5.1 Slot 0



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)	2020.10.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.16799

A.2 Comments