

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 4997 - L2 Version 4
Chandra X-Ray Center

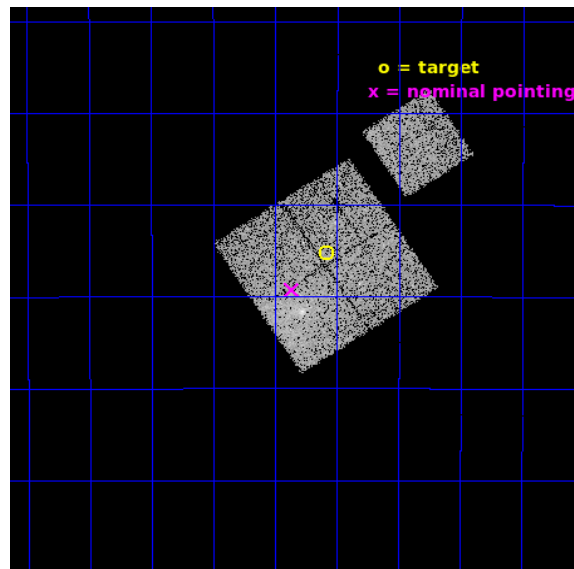
L2 Processing Date : Sep 23 2020

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1 Front

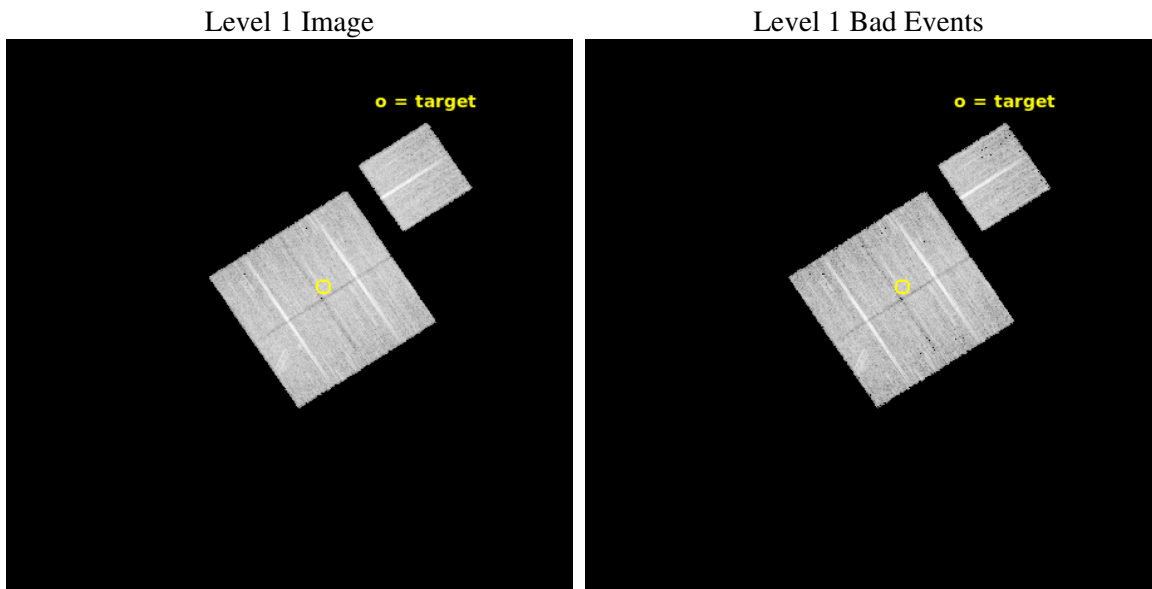
seq_num	800440	Sequence number
obs_id	4997	Observation id
title	Study of Candidate 'Fossil Groups	Proposal title
observer	Dr. Stephen Murray	Principal investigator
object	NGC 4936	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	196.020833	Observer's specified target RA [deg]
dec_targ	-30.419889	Observer's specified target Dec [deg]
ra_nom	196.09095522659	Nominal RA [deg]
dec_nom	-30.487586538282	Nominal Dec [deg]
roll_nom	56.6838000109	Nominal Roll [deg]
revision	4	Processing version of data
ontime	14151.499972761	Sum of GTIs [s]
livetime	13966.600207434	Livetime [s]
ontime0	14145.218032241	Sum of GTIs [s]
ontime1	14142.076922596	Sum of GTIs [s]
ontime2	14151.499972761	Sum of GTIs [s]
ontime3	14151.499972761	Sum of GTIs [s]
ontime6	14148.359002531	Sum of GTIs [s]
l2events	36624	Number of level 2 events



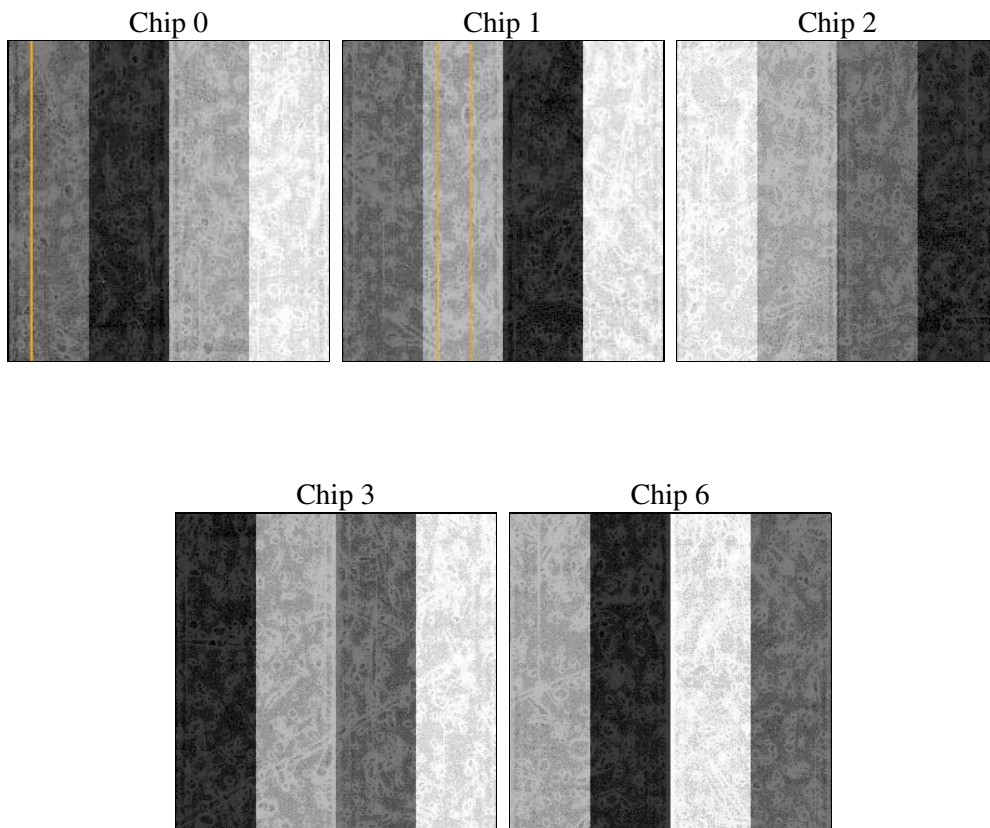
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	14000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	14151.499972761	Sum of GTIs [s]
caldsver	4.9.2	 	ontime0	14145.218032241	Sum of GTIs [s]
date	2020-09-23T05:58:06	Date and time of file creation	ontime1	14142.076922596	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	14151.499972761	Sum of GTIs [s]
			ontime3	14151.499972761	Sum of GTIs [s]
			ontime6	14148.359002531	Sum of GTIs [s]
			l1events	386022	Number of level 1 events

2.1.4 Events

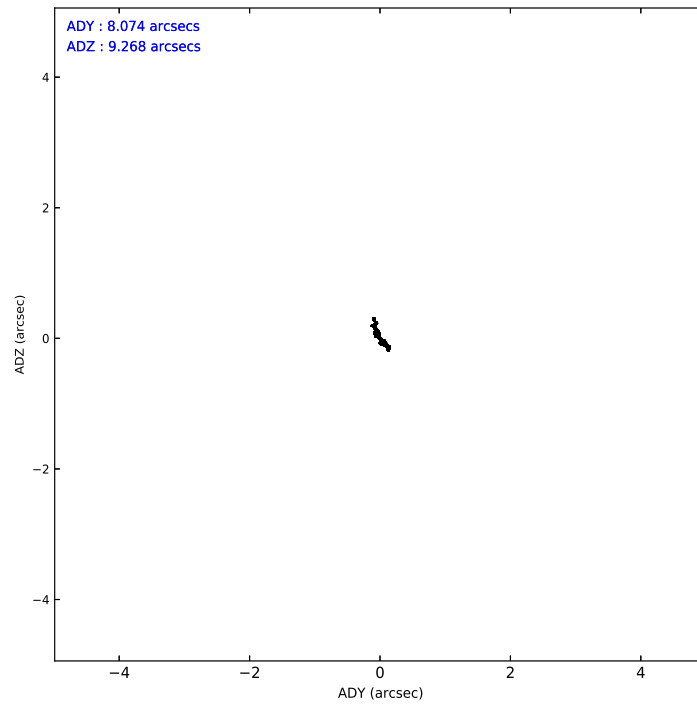
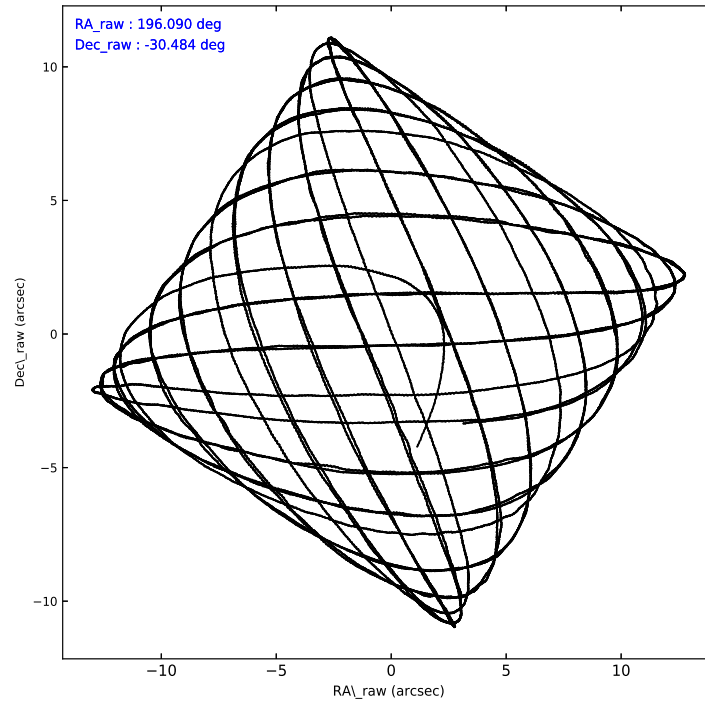
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	72593	76727	80661	77235	78806
rejected events	64186	65023	72713	69572	70891
rejected %	88%	84%	90%	90%	89%

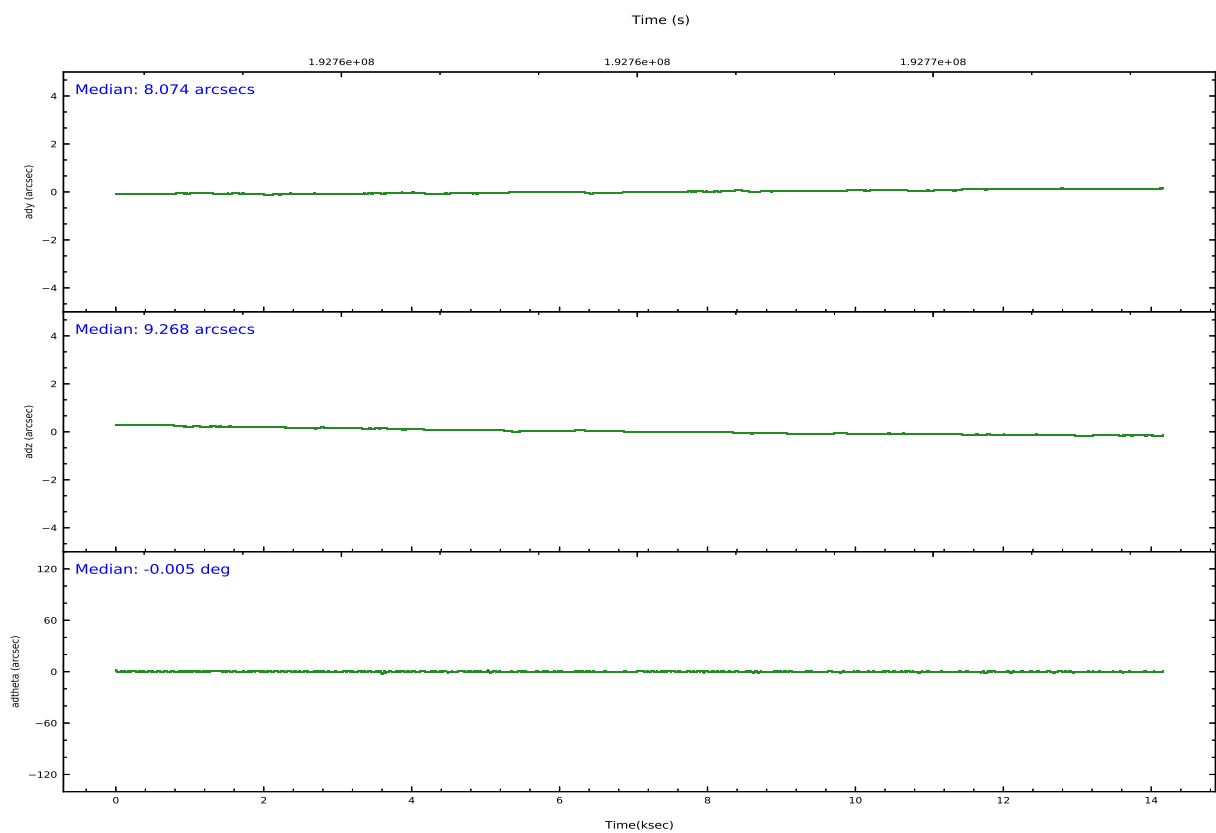
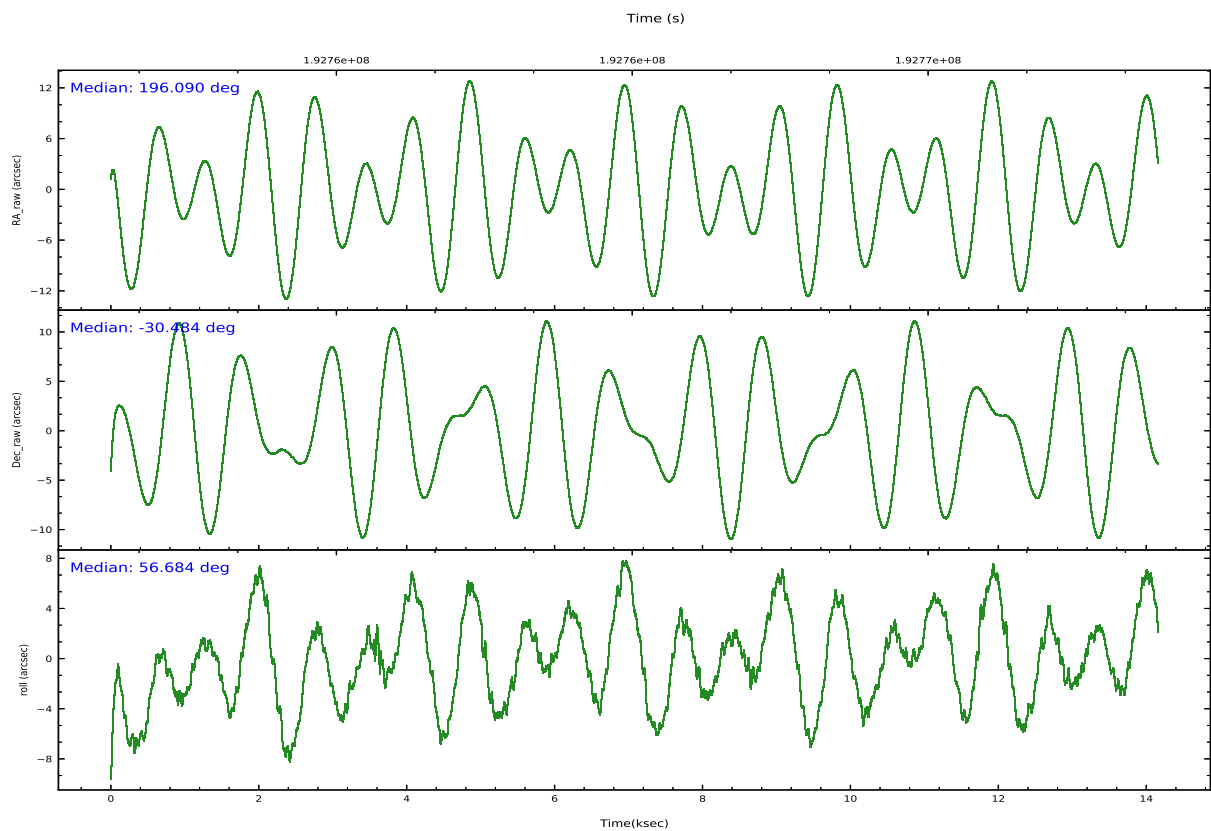
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	3323	6018	3150	3010	2840
	4%	7%	3%	3%	3%
grade 1 events	47	35	38	39	38
	0%	0%	0%	0%	0%
grade 2 events	1841	2127	1796	1610	1716
	2%	2%	2%	2%	2%
grade 3 events	937	1009	854	841	946
	1%	1%	1%	1%	1%
grade 4 events	886	978	858	826	832
	1%	1%	1%	1%	1%
grade 5 events	2765	2913	2624	3079	2982
	3%	3%	3%	3%	3%
grade 6 events	1504	1708	1372	1447	1674
	2%	2%	1%	1%	2%
grade 7 events	61290	61939	69969	66383	67778
	84%	80%	86%	85%	86%

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	196.088146	196.09095522659	Subarray requested	NONE	NONE
[deg] Pointing Dec	-30.511542	-30.487586538282	Alternating exposures requested	N	N
[deg] Pointing Roll	56.476299	56.6838000109	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-247.592463	-247.5871420599148			
[mm] SIM translation stage offset	14	13.9946890569851			
[s] Observation start time (MET)	192757110.184000	192756066.0861			
Observation start date	2004-02-09T23:37:26	2004-02-09T23:21:06			
[s] Observation end time (MET)	192771110.184000	192771702.97428			
Observation end date	2004-02-10T03:30:46	2004-02-10T03:41:42			
Read mode	TIMED	TIMED			

2.3 Aspect



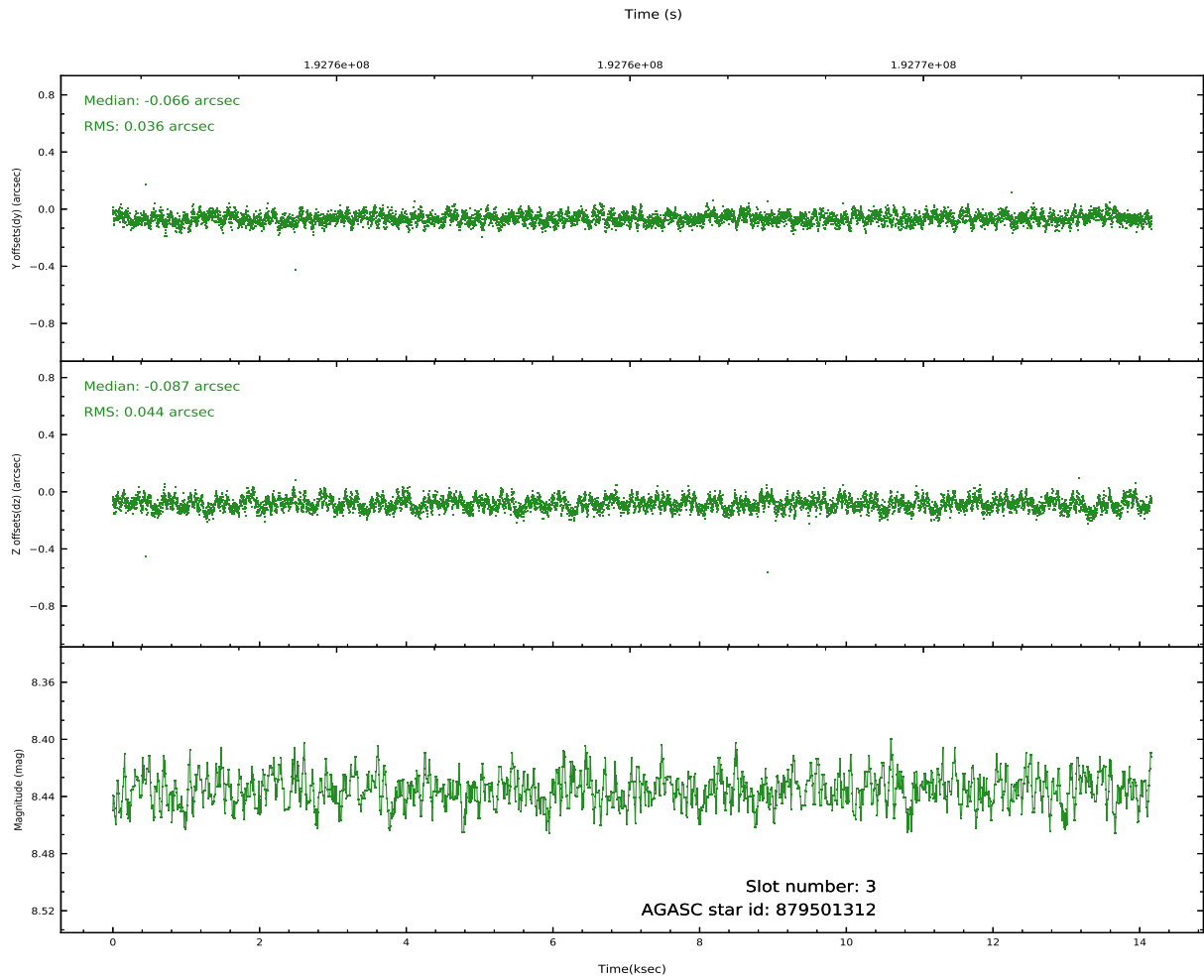
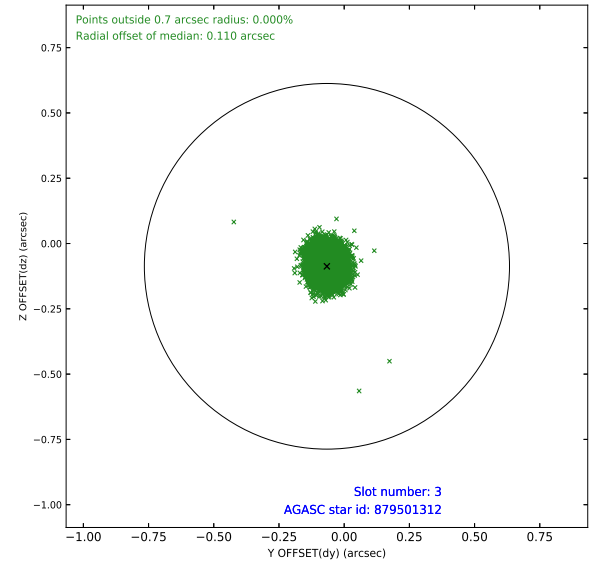
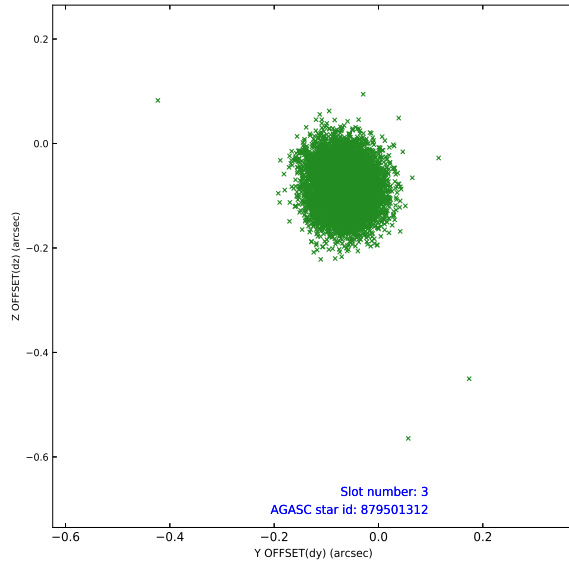


Slot Statistics

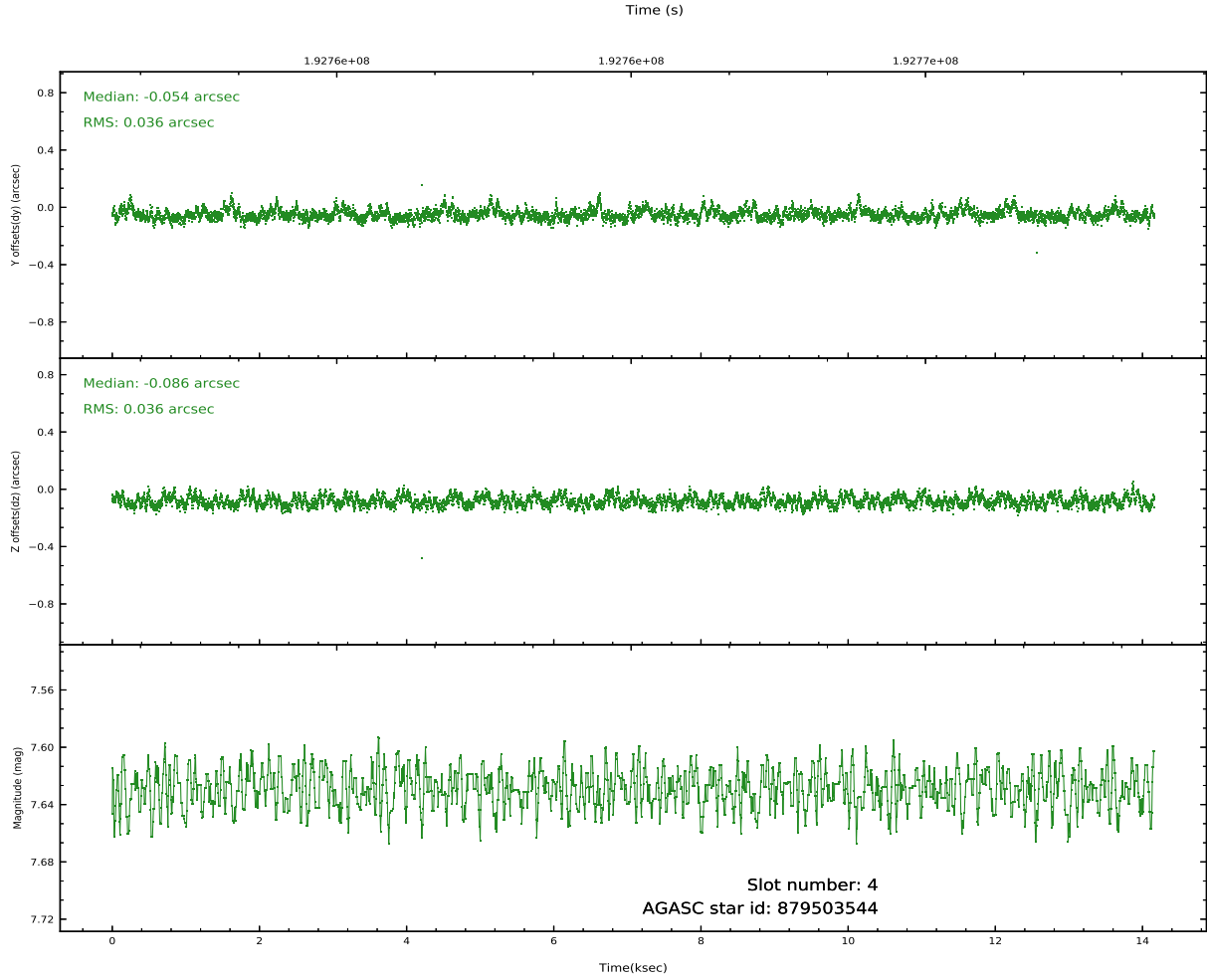
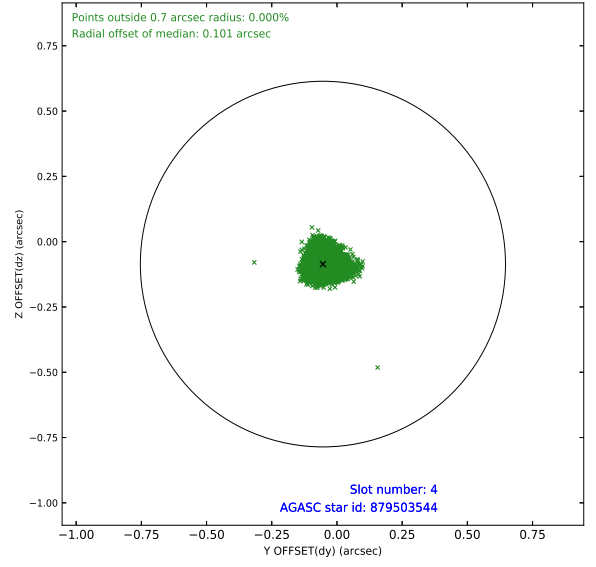
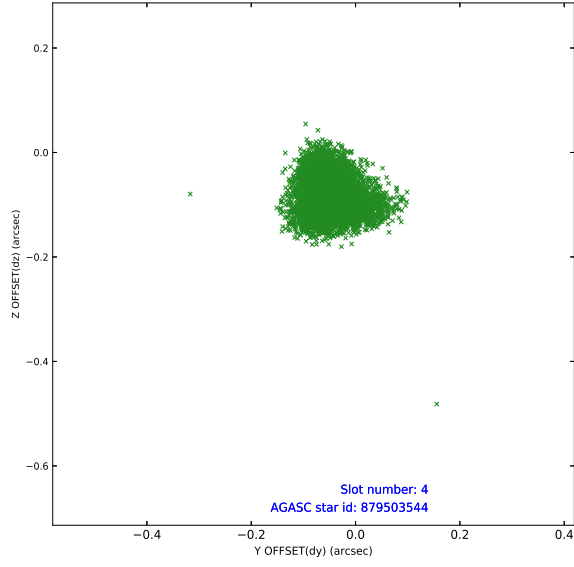
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.31	3454	1.000	-0.041	0.124	0.007	0.012	0.000000	0.000000	931.82	-544
1	FID		ACIS-I-5	7.23	3454	1.000	-0.110	0.013	0.006	0.011	0.000000	0.000000	-1816.26	1352
2	FID		ACIS-I-6	7.23	3454	1.000	0.060	-0.068	0.007	0.011	0.000000	0.000000	396.99	1997
3	GUIDE	used	879501312	8.44	6908	1.000	-0.066	-0.087	0.060	0.095	195.864202	-29.858892	1571.79	1880
4	GUIDE	used	879503544	7.63	6909	1.000	-0.054	-0.086	0.053	0.087	195.842592	-29.663414	2120.33	2327
5	GUIDE	used	950143512	7.85	6909	1.000	0.015	-0.022	0.050	0.079	195.697444	-30.338755	-153.36	1354
6	GUIDE	used	950144048	9.41	6905	1.000	0.195	-0.044	0.091	0.144	195.661768	-30.639985	-1116.77	844
7	GUIDE	used	950272152	7.93	6908	1.000	-0.095	0.236	0.076	0.119	196.912603	-30.434929	1635.59	-1985

2.4 Star Slots

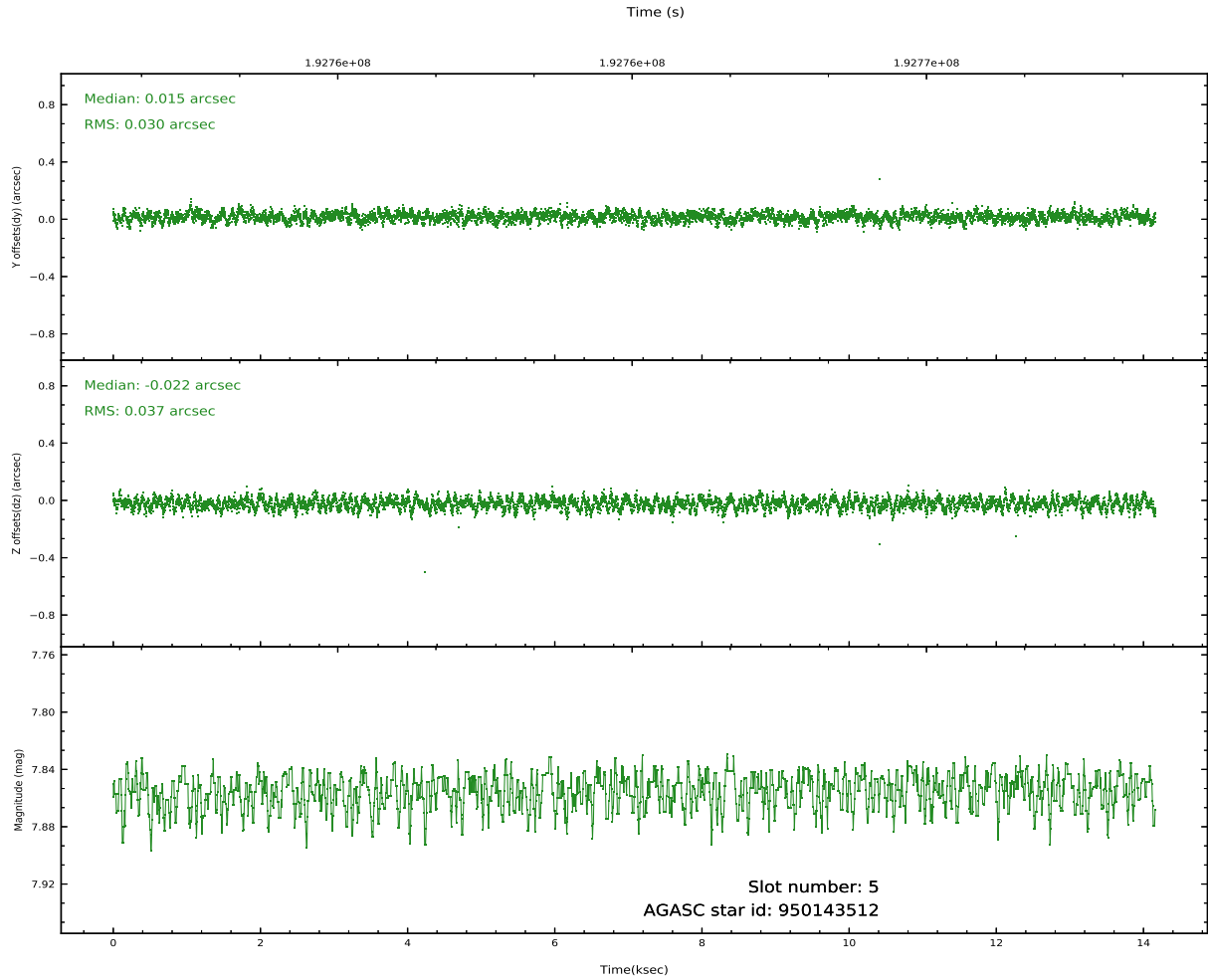
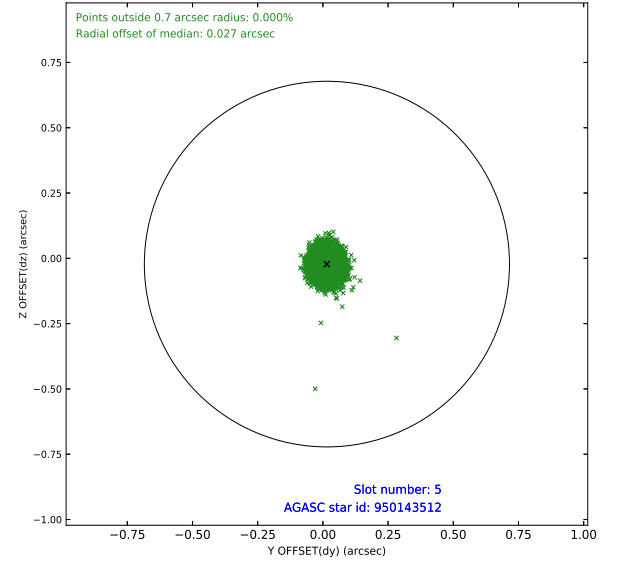
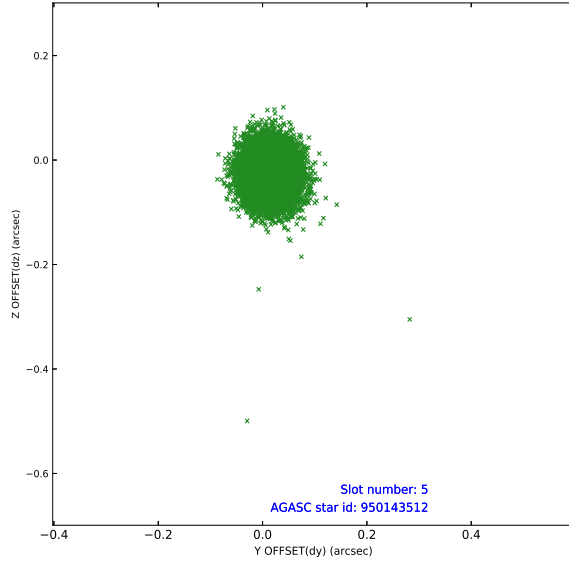
2.4.1 Slot 3



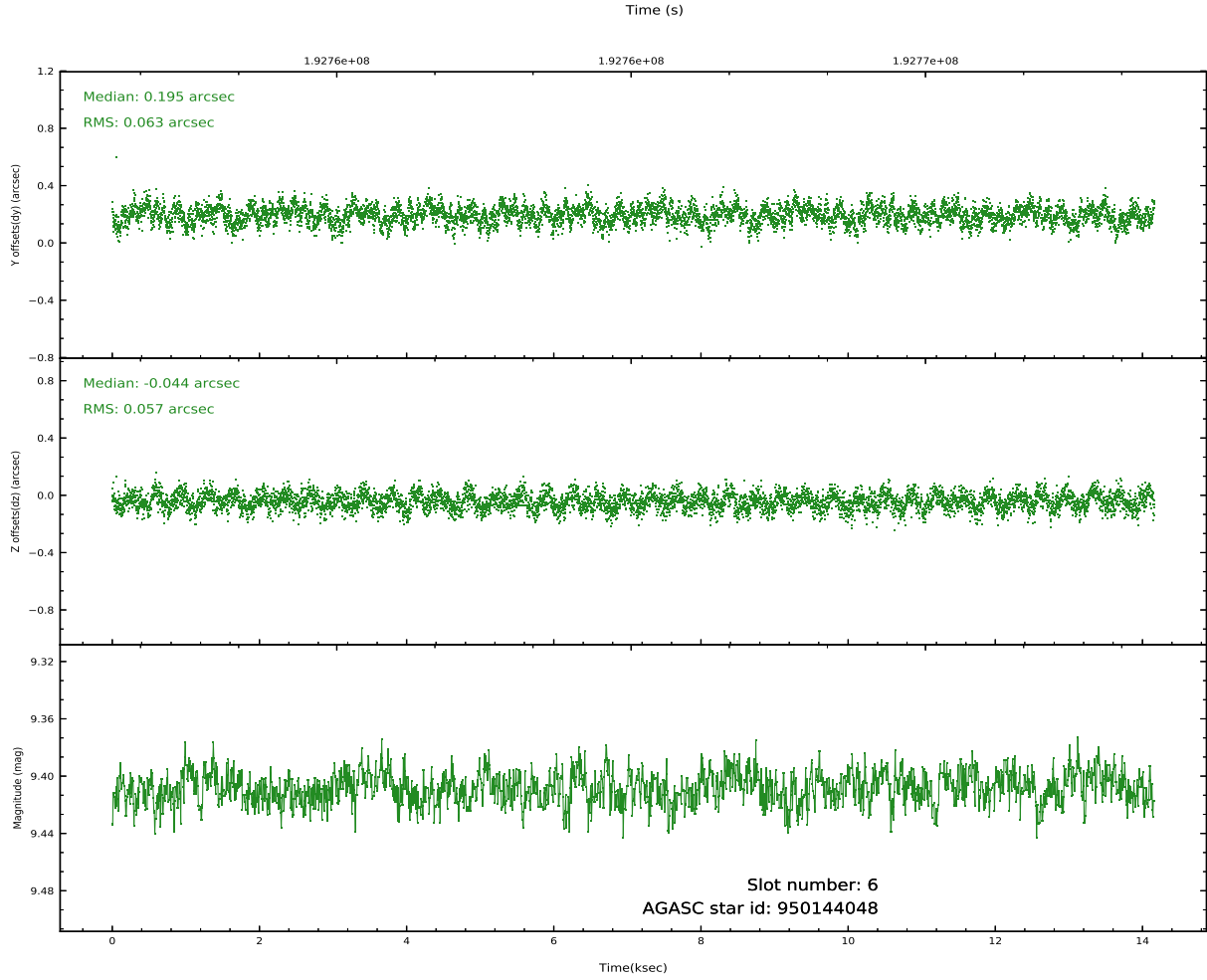
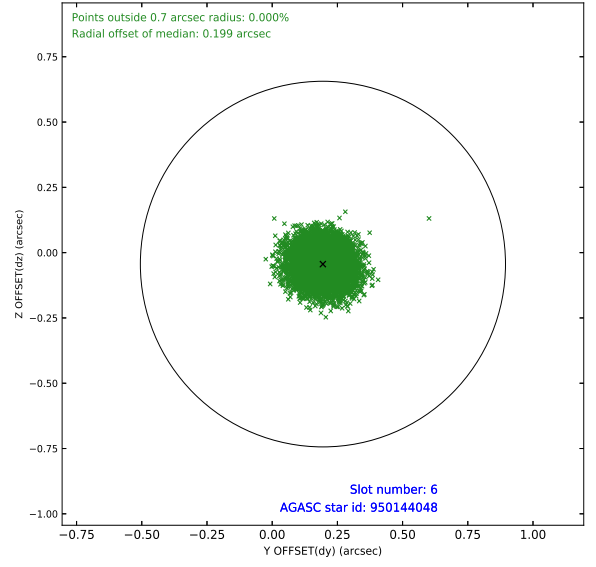
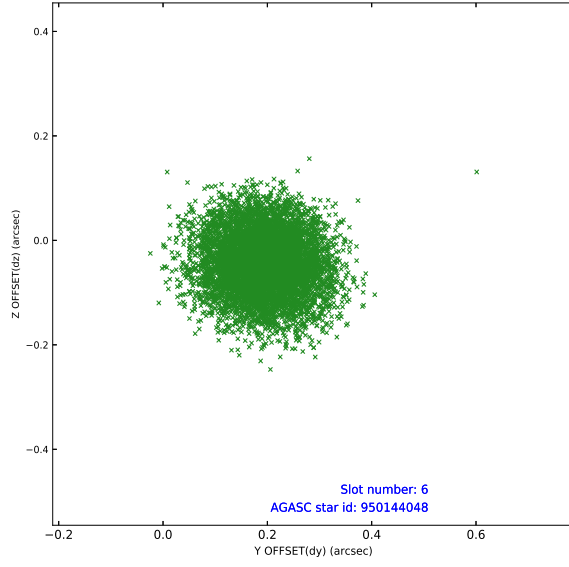
2.4.2 Slot 4



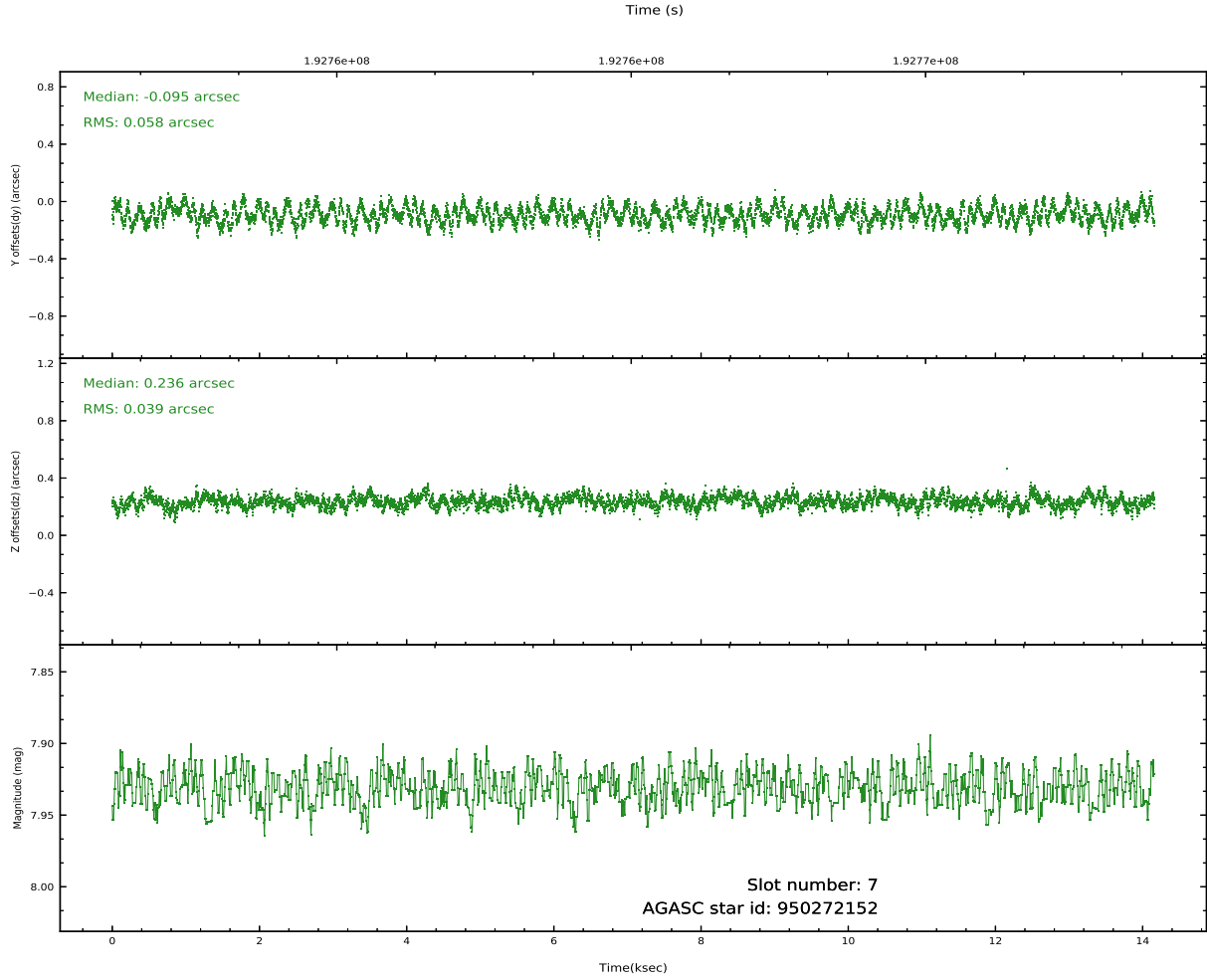
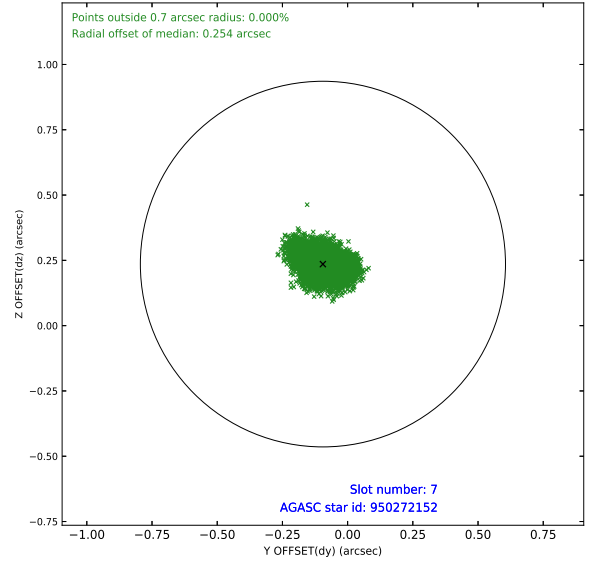
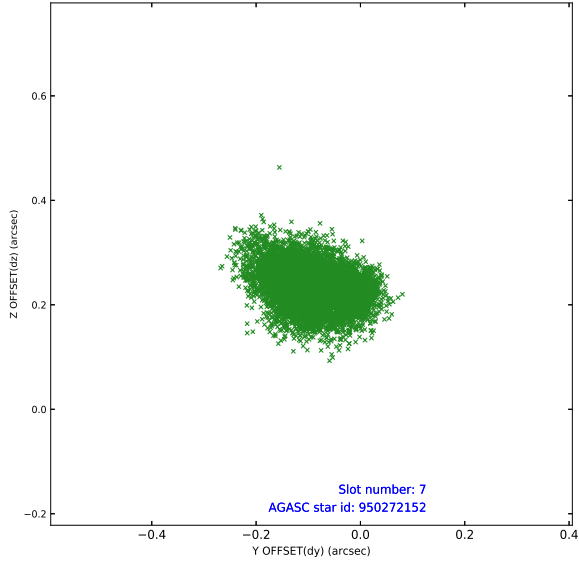
2.4.3 Slot 5



2.4.4 Slot 6

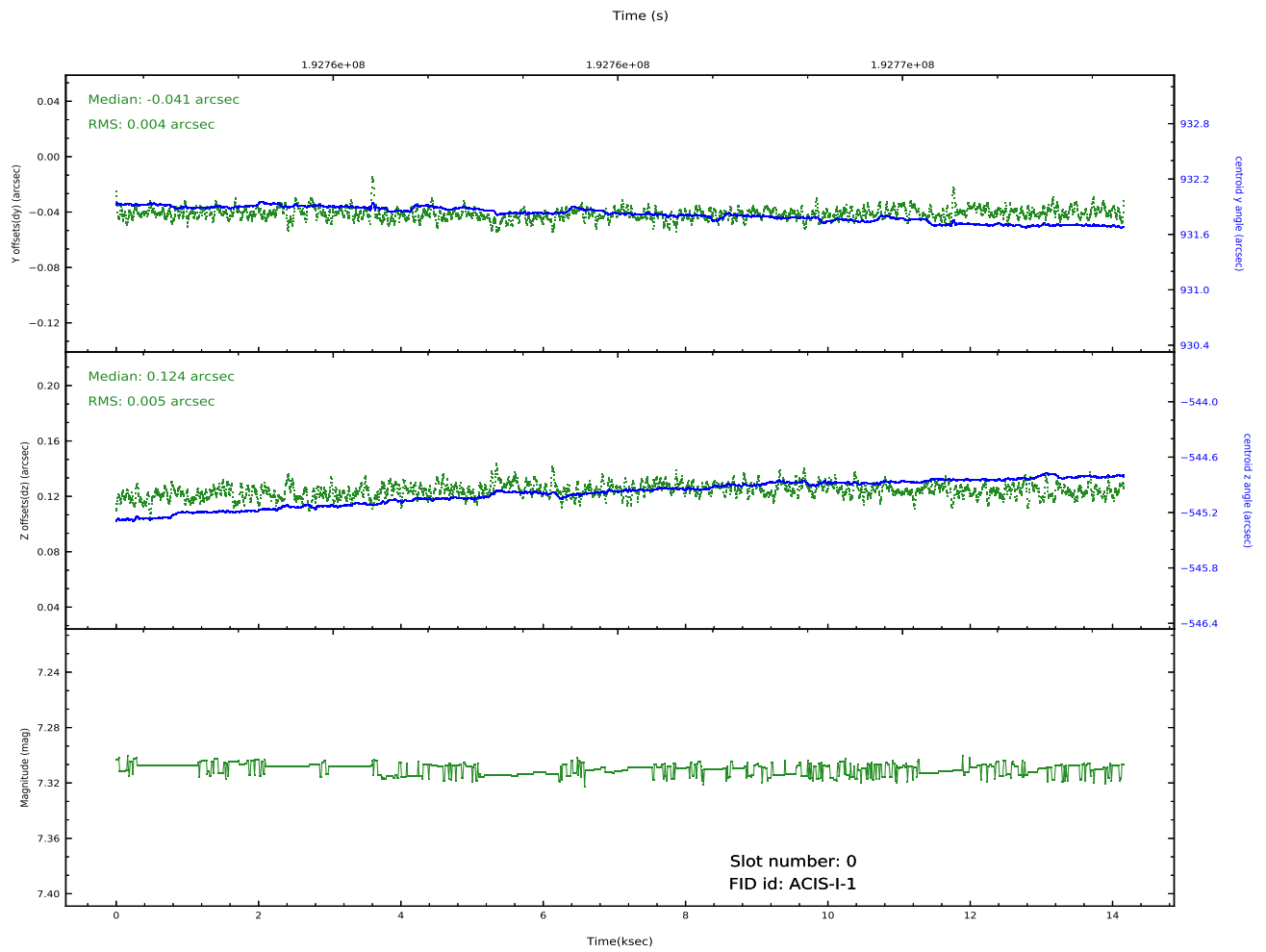
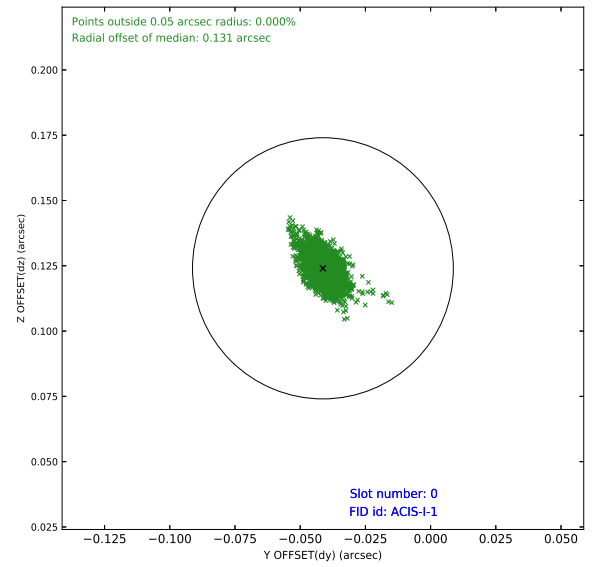
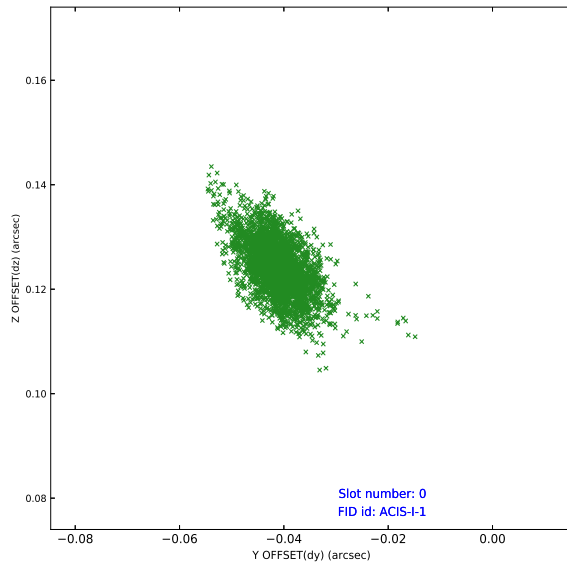


2.4.5 Slot 7

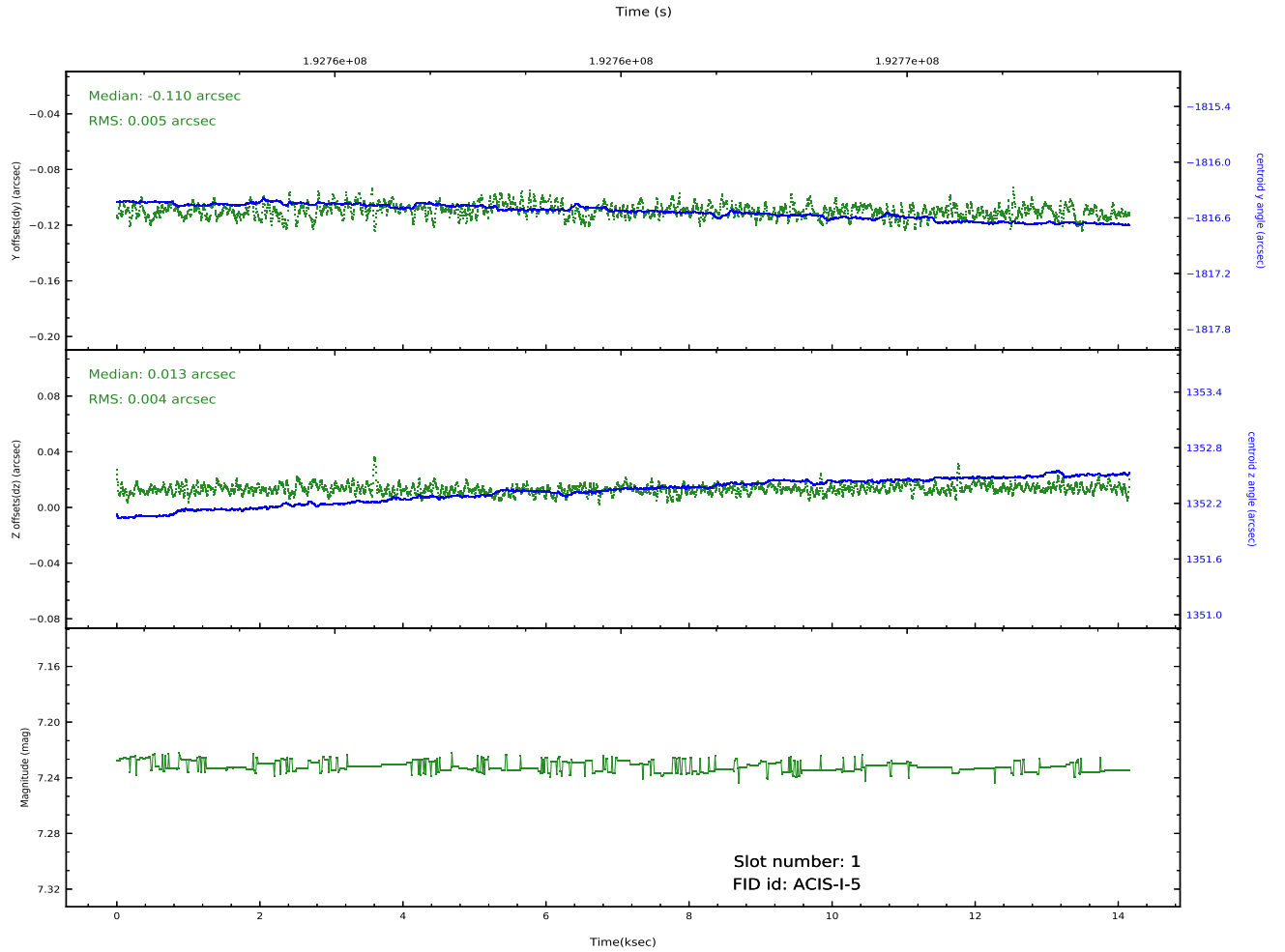
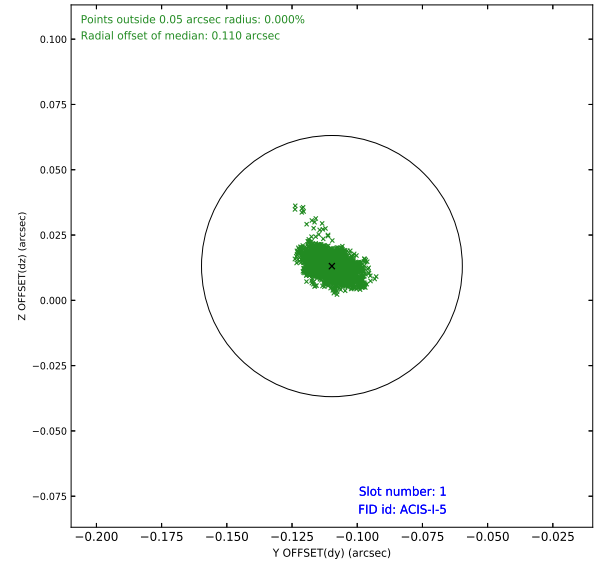
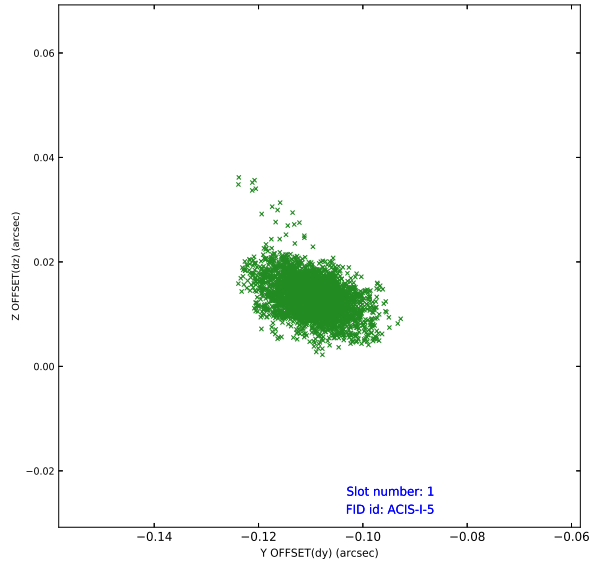


2.5 FID Slots

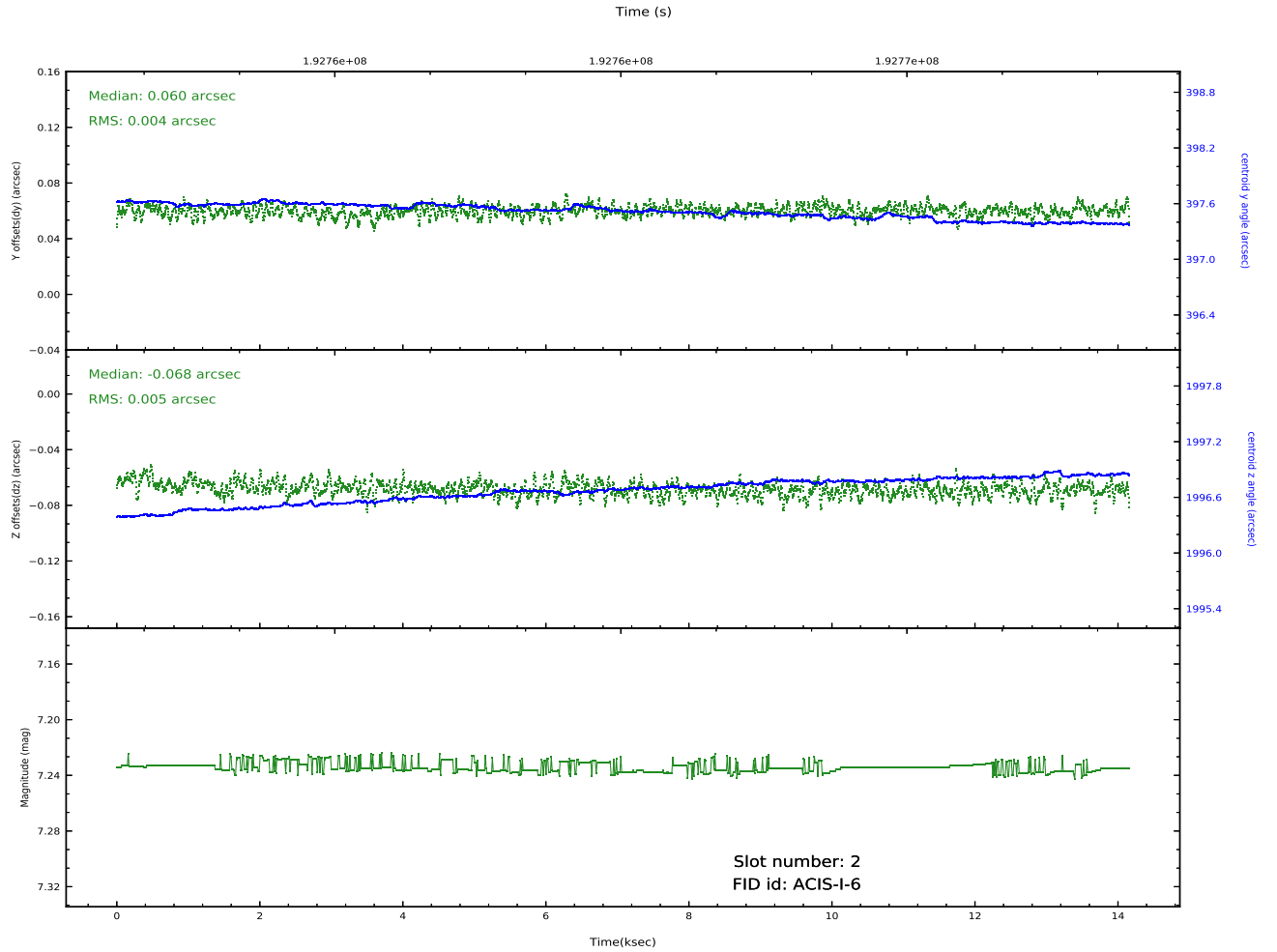
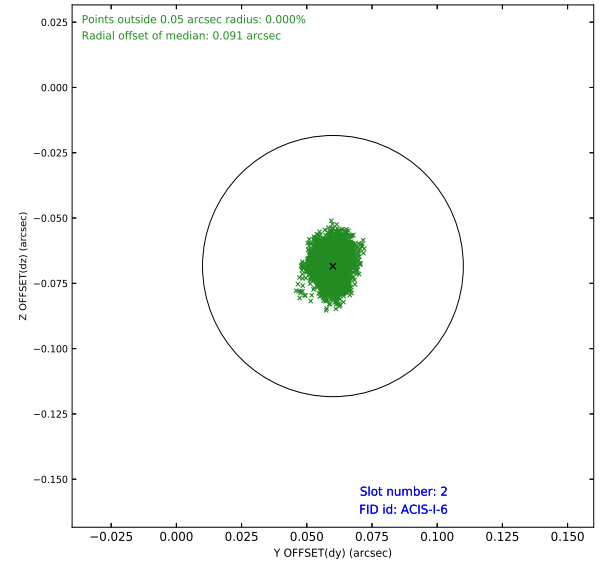
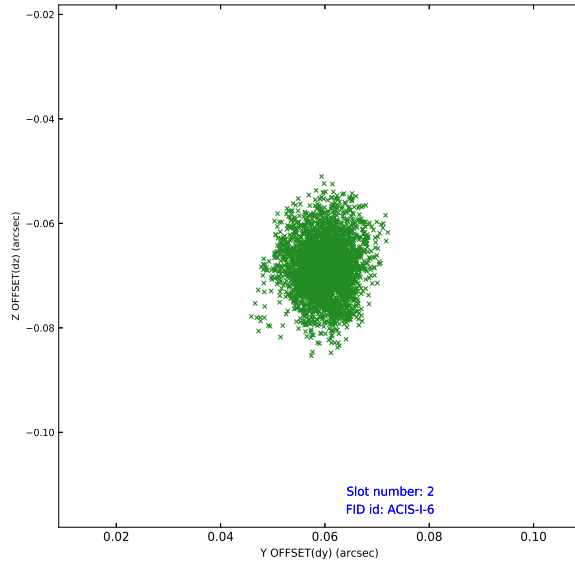
2.5.1 Slot 0



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)	2020.09.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	14.151

A.2 Comments