

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5162 - L2 Version 4
Chandra X-Ray Center

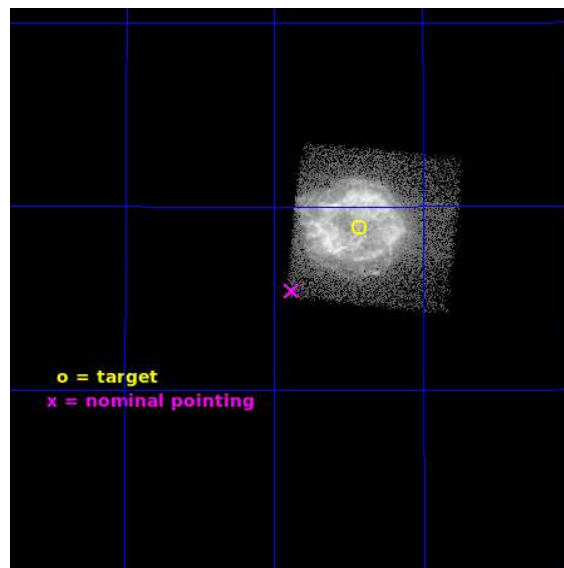
L2 Processing Date : Sep 24 2020

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1 Front

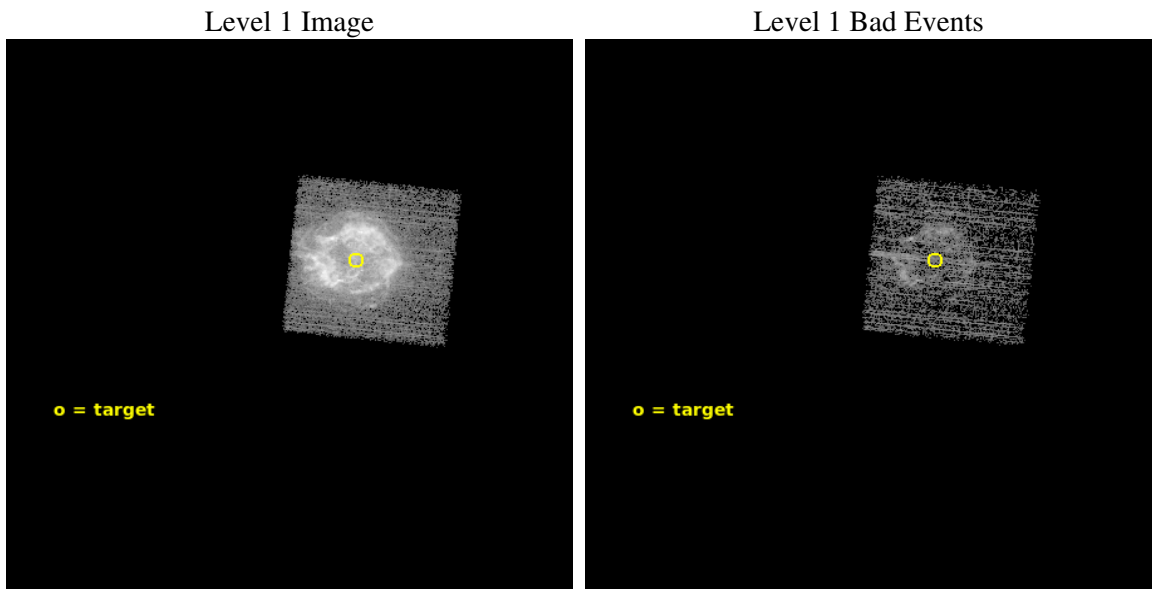
seq_num	590360	Sequence number
obs_id	5162	Observation id
title	AO5A Observations of the Standard Candles Cas A and G21.5-09	Propo
observer	CXC Calibration	Principal investigator
object	Cas A	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	350.8575	Observer's specified target RA [deg]
dec_targ	58.814833	Observer's specified target Dec [deg]
ra_nom	350.97016470634	Nominal RA [deg]
dec_nom	58.756957603364	Nominal Dec [deg]
roll_nom	5.9525853006403	Nominal Roll [deg]
revision	4	Processing version of data
ontime	1449.6097379923	Sum of GTIs [s]
livetime	1431.2539066396	Livetime [s]
ontime0	1955.1999927163	Sum of GTIs [s]
ontime1	1955.1999927163	Sum of GTIs [s]
ontime2	1955.1999927163	Sum of GTIs [s]
ontime3	1449.6097379923	Sum of GTIs [s]
ontime6	1955.1999927163	Sum of GTIs [s]
ontime7	1955.1999927163	Sum of GTIs [s]
l2events	306415	Number of level 2 events



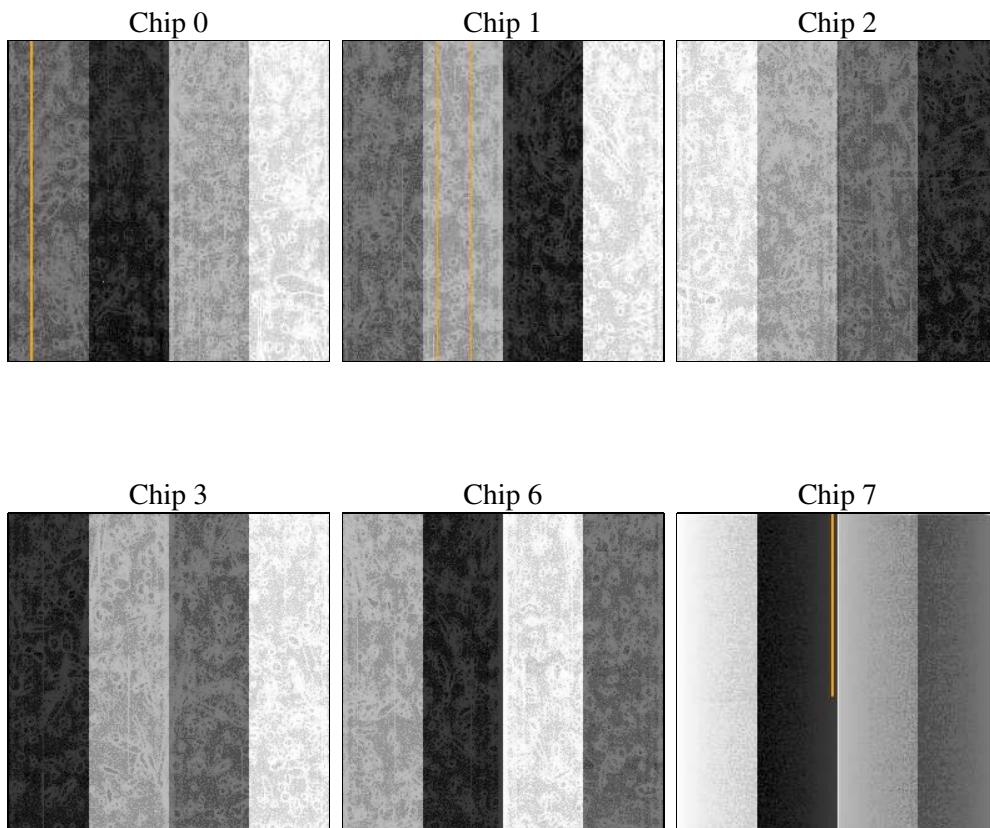
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	1449.6097379923	Sum of GTIs [s]
caldbver	4.9.2	 	ontime0	1955.1999927163	Sum of GTIs [s]
date	2020-09-24T11:39:59	Date and time of file creation	ontime1	1955.1999927163	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	1955.1999927163	Sum of GTIs [s]
			ontime3	1449.6097379923	Sum of GTIs [s]
			ontime6	1955.1999927163	Sum of GTIs [s]
			ontime7	1955.1999927163	Sum of GTIs [s]
			l1events	373195	Number of level 1 events

2.1.4 Events

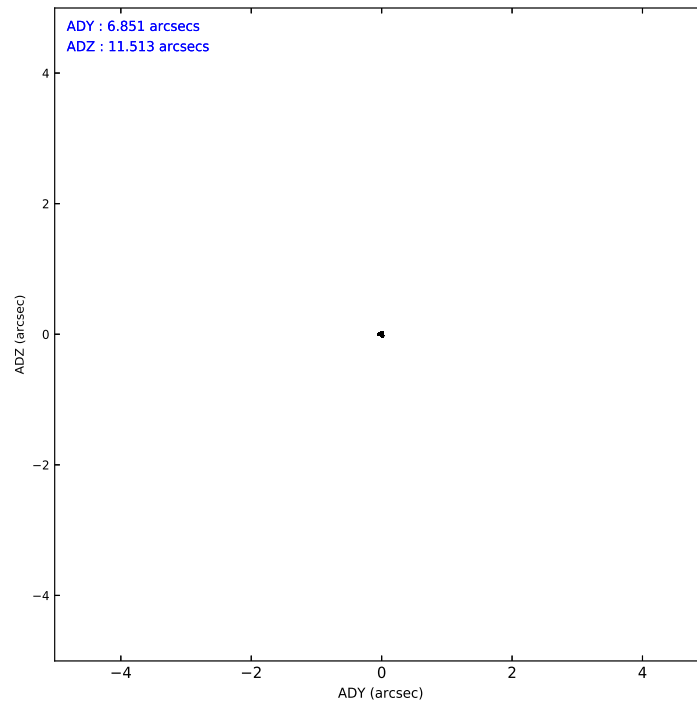
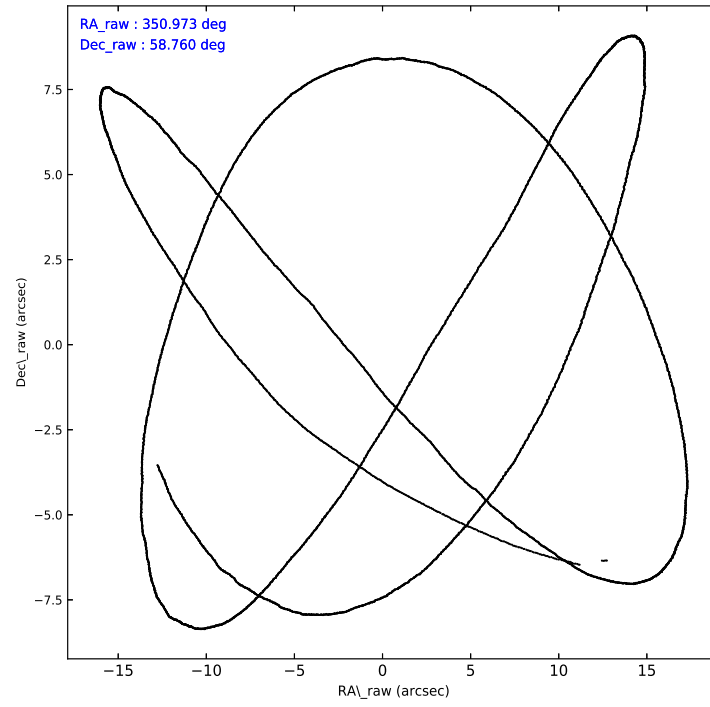
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	0	0	0	373195	0	0
rejected events	0	0	0	56888	0	0
rejected %	0%	0%	0%	15%	0%	0%

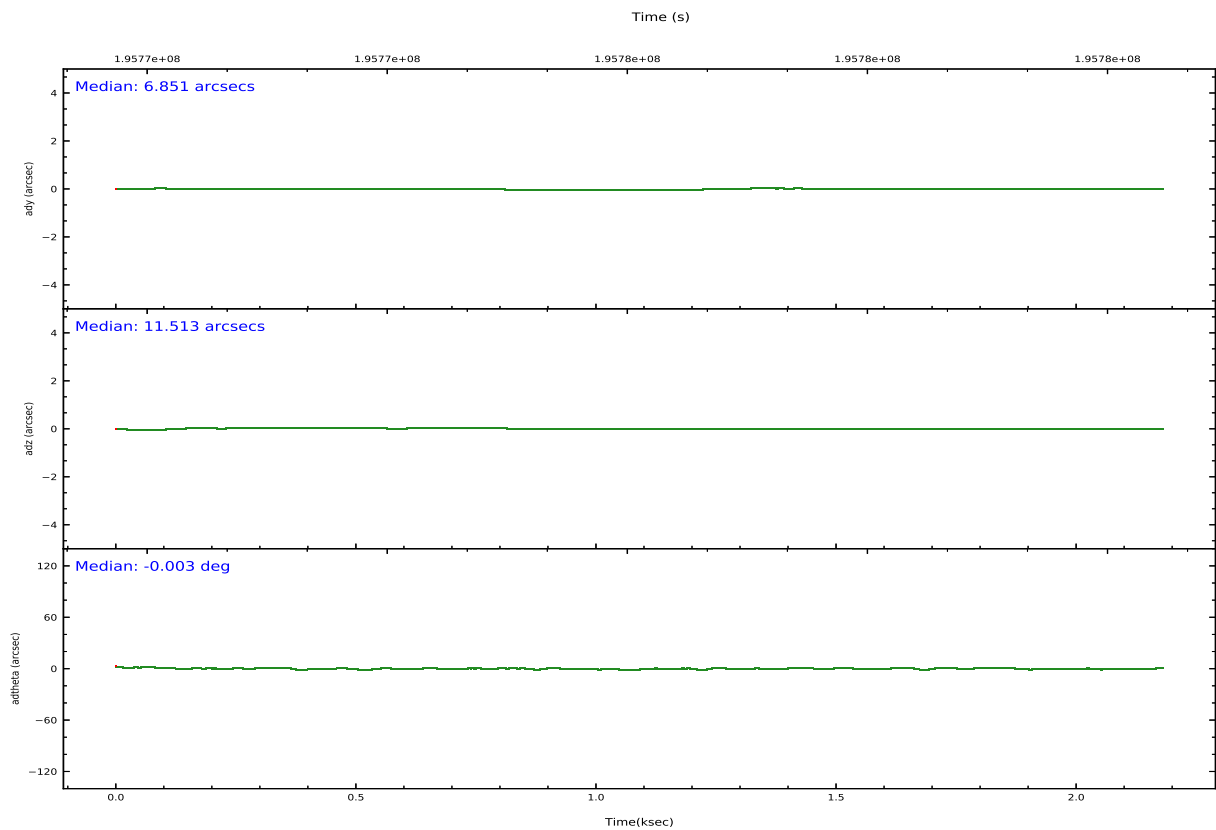
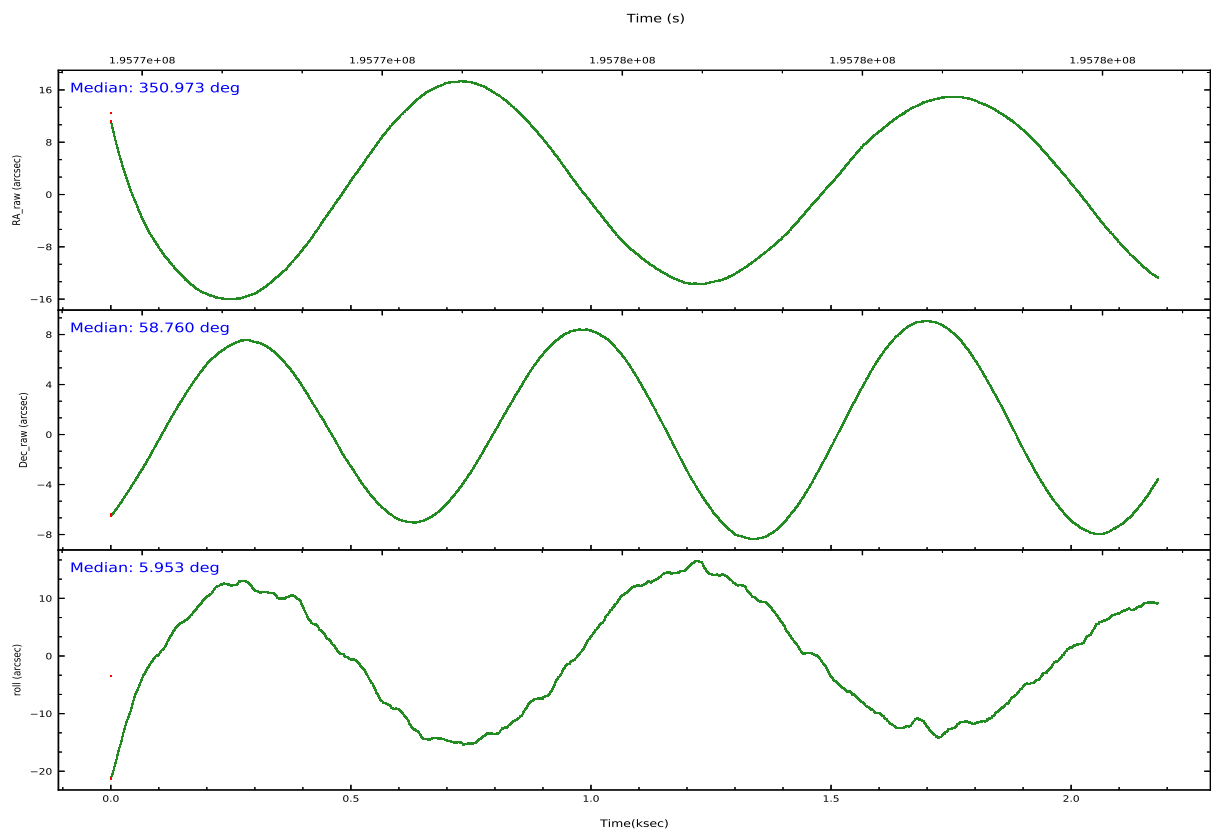
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	0	0	0	257556	0	0
	0%	0%	0%	69%	0%	0%
grade 1 events	0	0	0	4189	0	0
	0%	0%	0%	1%	0%	0%
grade 2 events	0	0	0	32281	0	0
	0%	0%	0%	8%	0%	0%
grade 3 events	0	0	0	10369	0	0
	0%	0%	0%	2%	0%	0%
grade 4 events	0	0	0	10398	0	0
	0%	0%	0%	2%	0%	0%
grade 5 events	0	0	0	2882	0	0
	0%	0%	0%	0%	0%	0%
grade 6 events	0	0	0	7117	0	0
	0%	0%	0%	1%	0%	0%
grade 7 events	0	0	0	48403	0	0
	0%	0%	0%	12%	0%	0%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-012367	ACIS-012367	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	350.930815	350.97016470634	Subarray requested	NONE	NONE
[deg] Pointing Dec	58.744324	58.756957603364	Alternating exposures requested	N	N
[deg] Pointing Roll	5.780164	5.9525853006403	[s] Primary exposure time	0.000000	3.2
[s] Window start time (MET)	194486464.184000	194486464.184000			
[s] Window stop time (MET)	197078464.184000	197078464.184000			
[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)	195774116.184000	195773154.23075			
Observation start date	2004-03-15T21:40:52	2004-03-15T21:25:54			
[s] Observation end time (MET)	195776116.184000	195776266.64339			
Observation end date	2004-03-15T22:14:12	2004-03-15T22:17:46			
Read mode	TIMED	TIMED			

2.3 Aspect



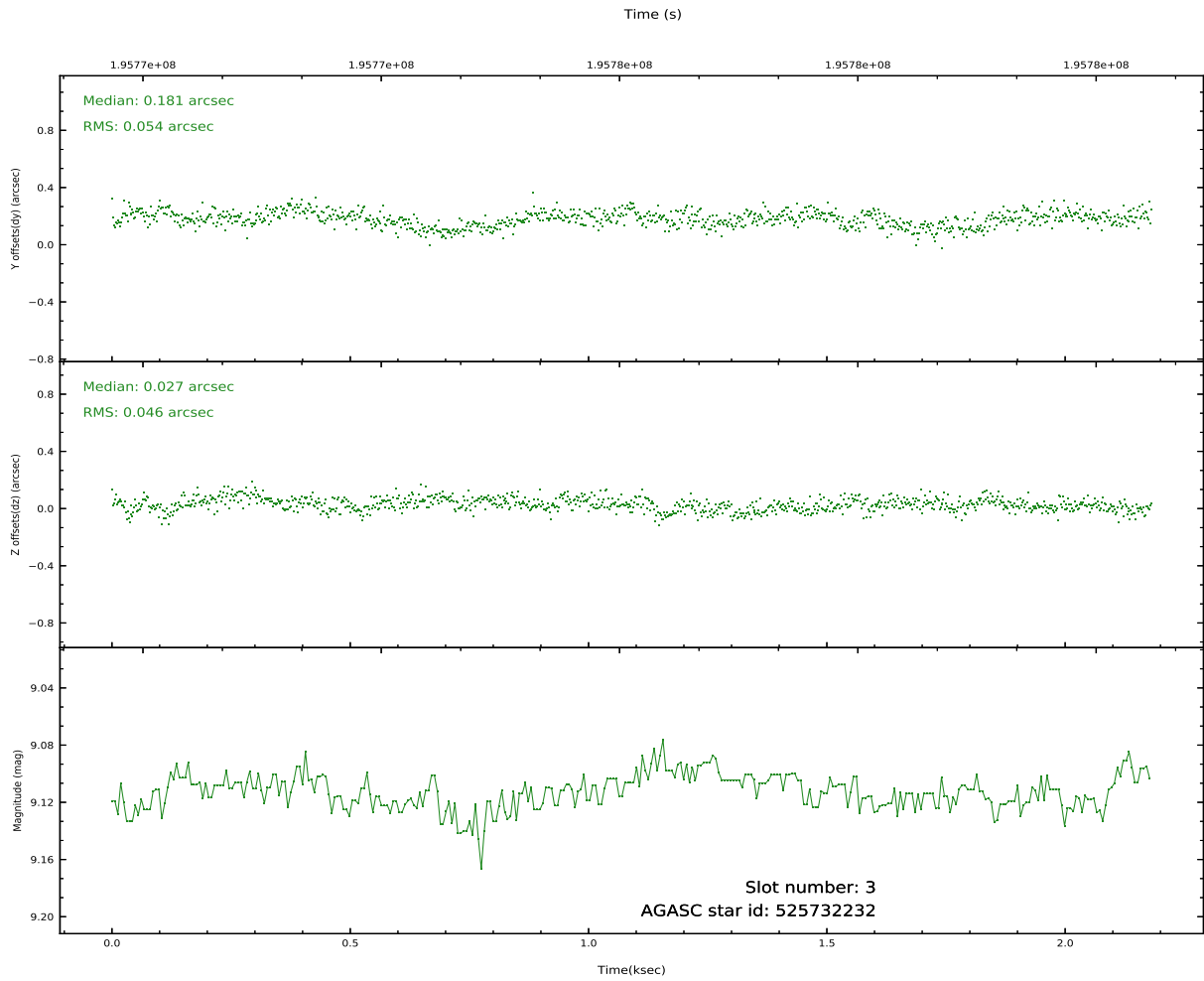
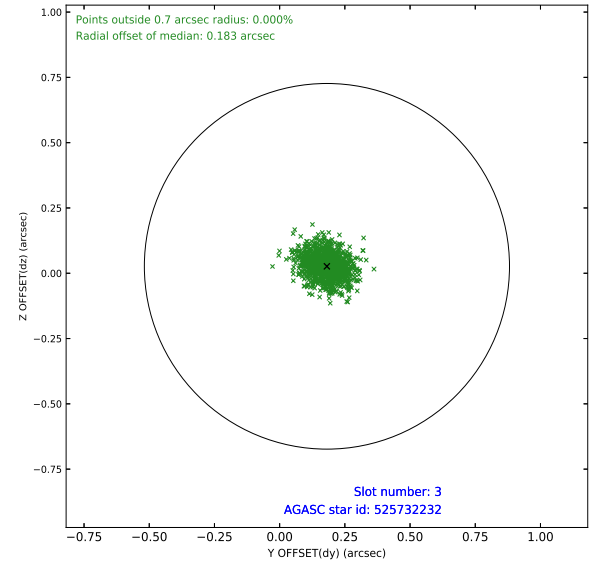
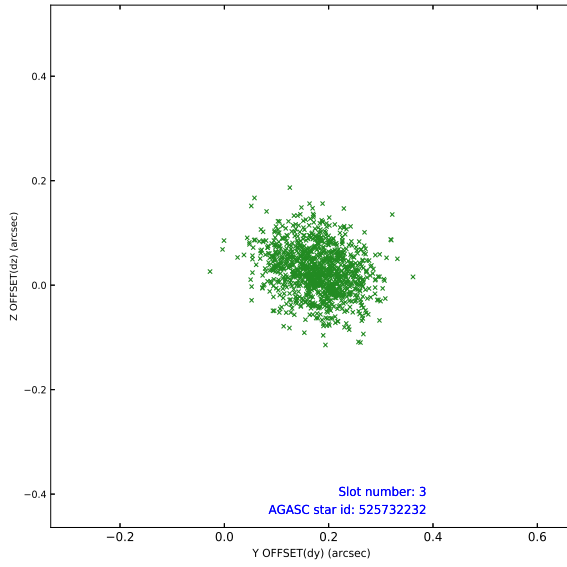


Slot Statistics

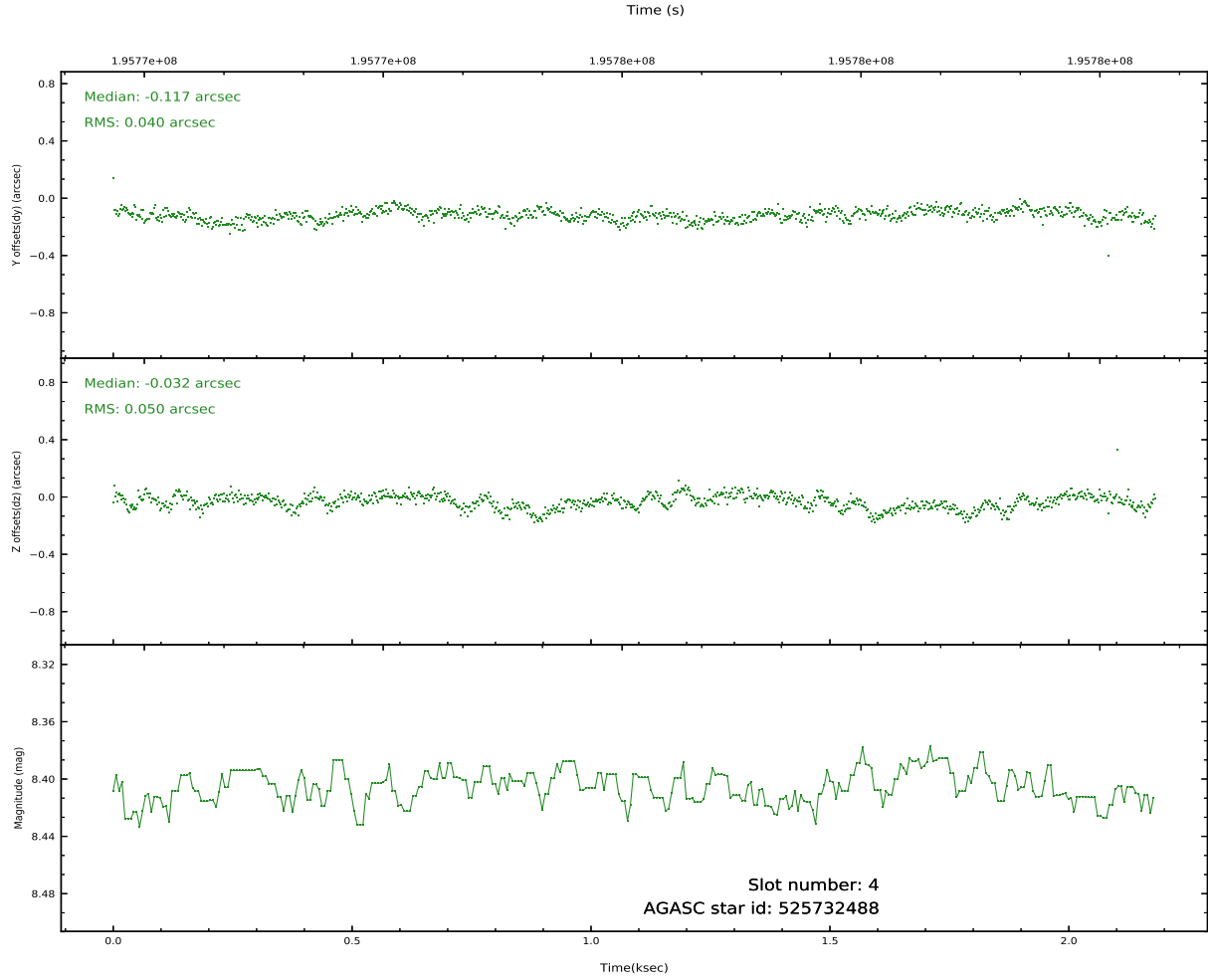
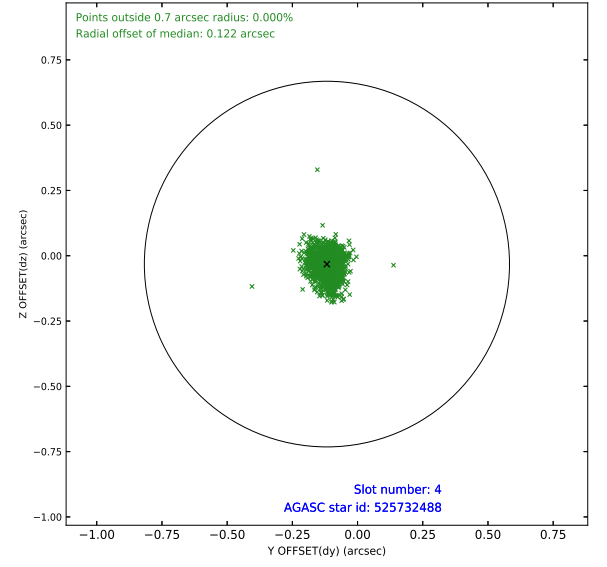
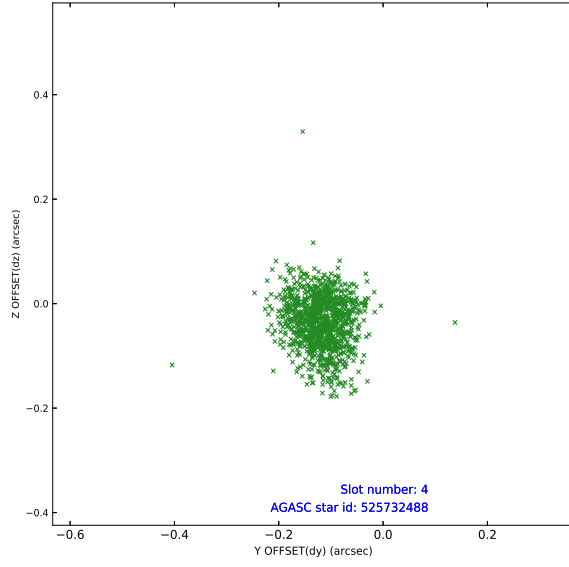
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.24	533	1.000	-0.023	-0.097	0.008	0.013	0.000000	0.000000	932.83	-835
1	FID		ACIS-I-4	7.18	533	1.000	0.119	0.101	0.008	0.012	0.000000	0.000000	2154.66	1063
2	FID		ACIS-I-5	7.23	532	1.000	-0.195	0.066	0.006	0.013	0.000000	0.000000	-1811.51	1064
3	GUIDE	used	525732232	9.11	1065	1.000	0.181	0.027	0.075	0.122	351.669550	58.757012	1378.79	-86
4	GUIDE	used	525732488	8.41	1065	1.000	-0.117	-0.032	0.066	0.111	350.087090	58.516915	-1657.92	-644
5	GUIDE	used	525735976	8.89	1064	1.000	-0.106	-0.088	0.070	0.116	350.142956	58.277622	-1653.28	-1513
6	GUIDE	used	525736400	9.06	1064	1.000	-0.073	0.045	0.076	0.132	350.974563	59.175145	235.25	1533
7	GUIDE	used	525732528	9.36	1062	1.000	0.119	0.053	0.088	0.139	351.607241	59.298932	1439.23	1869

2.4 Star Slots

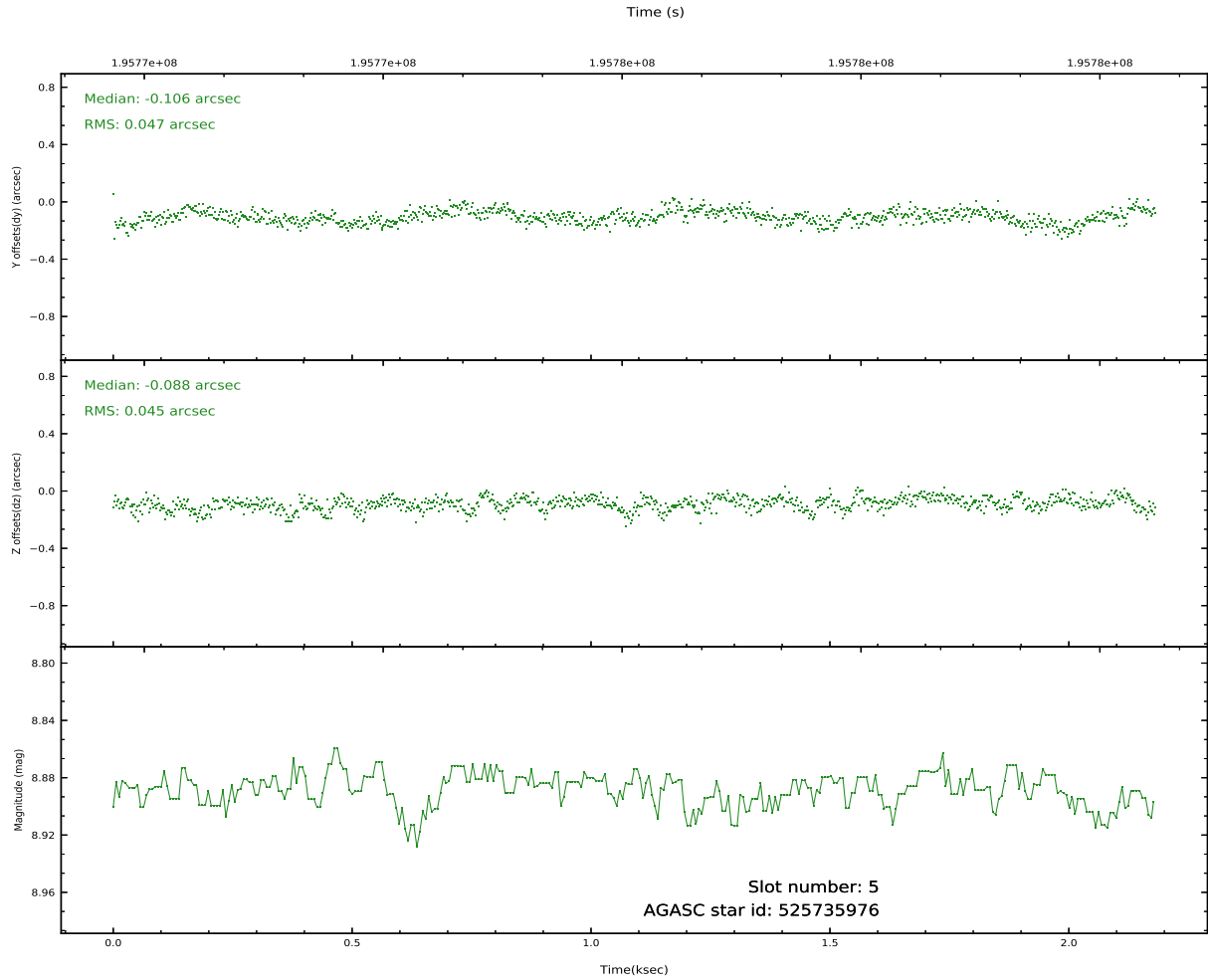
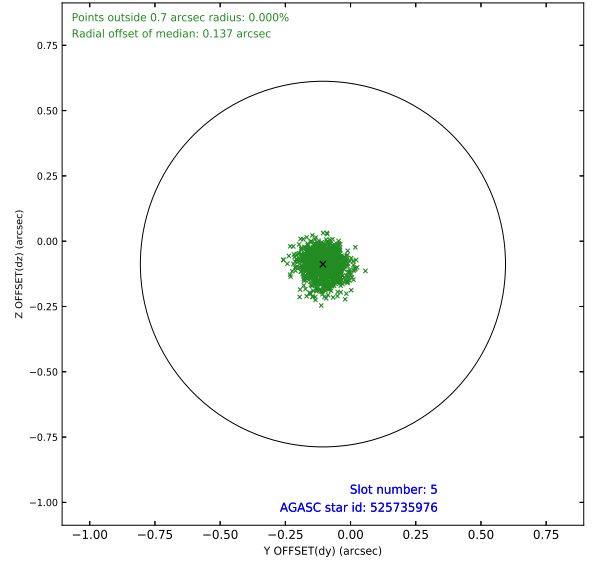
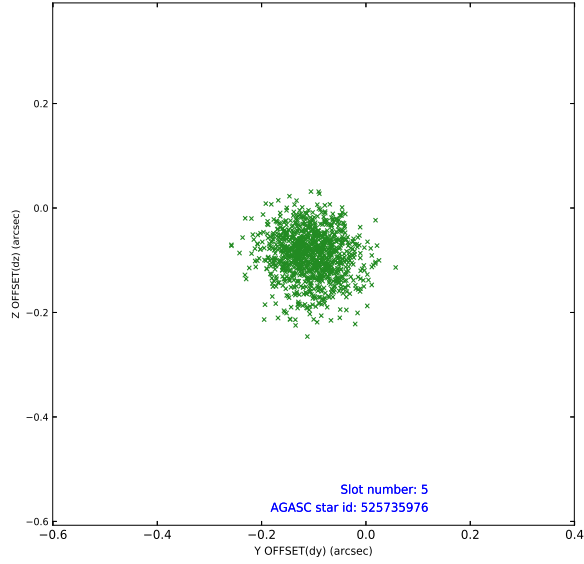
2.4.1 Slot 3



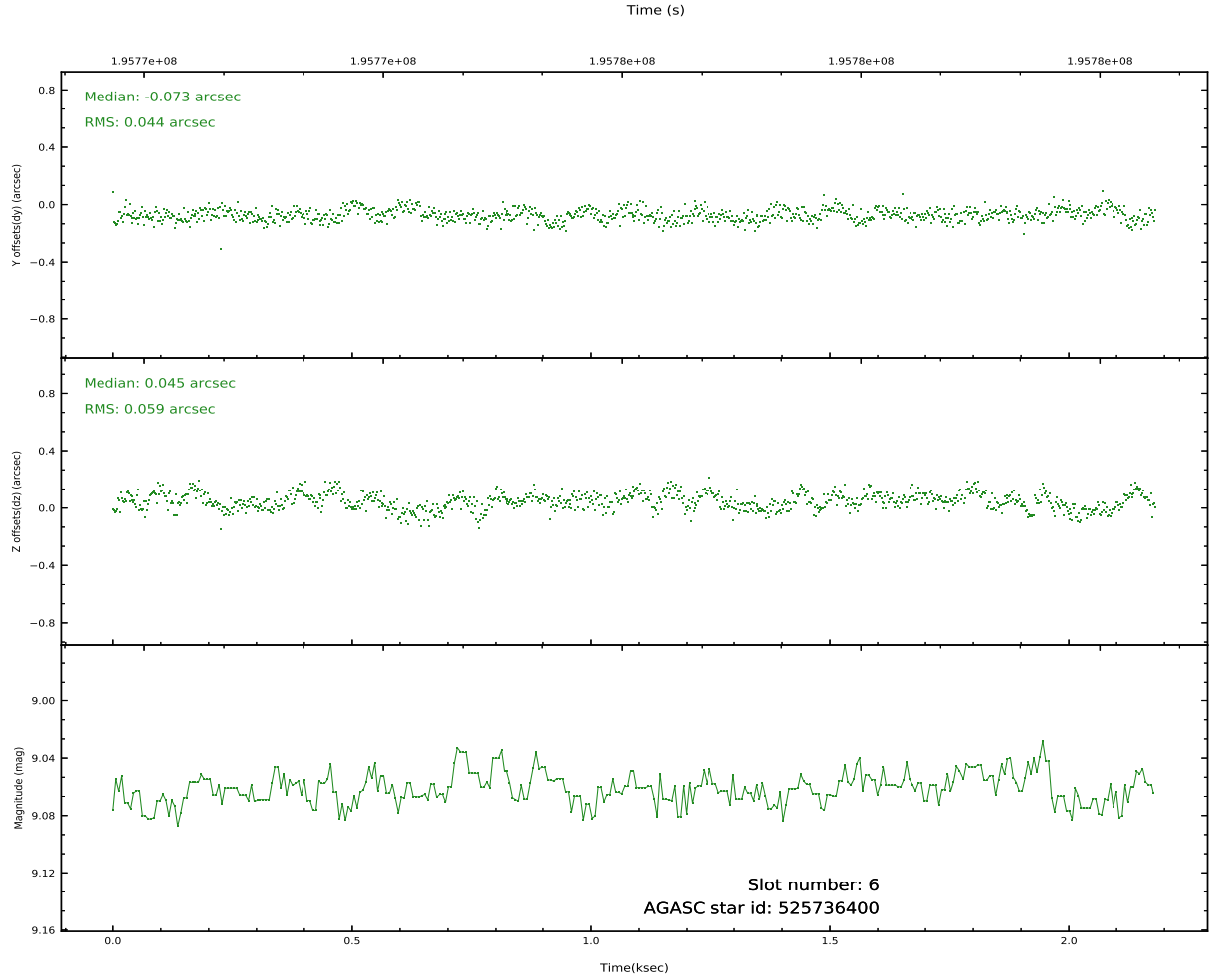
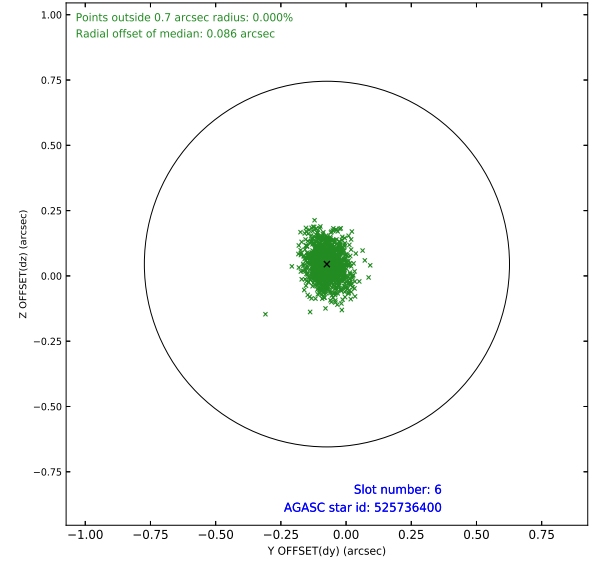
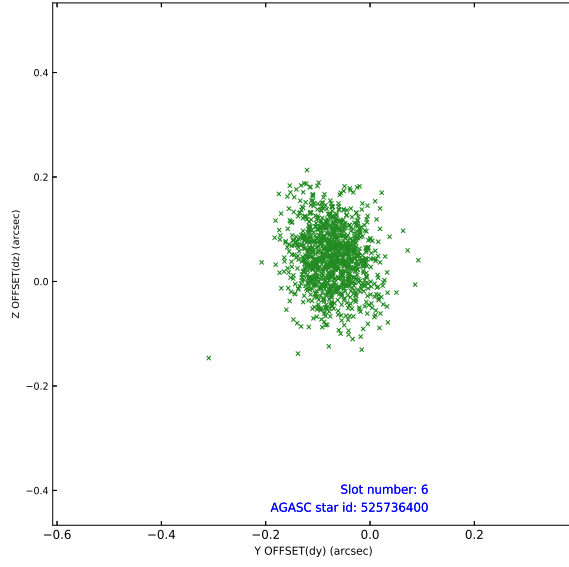
2.4.2 Slot 4



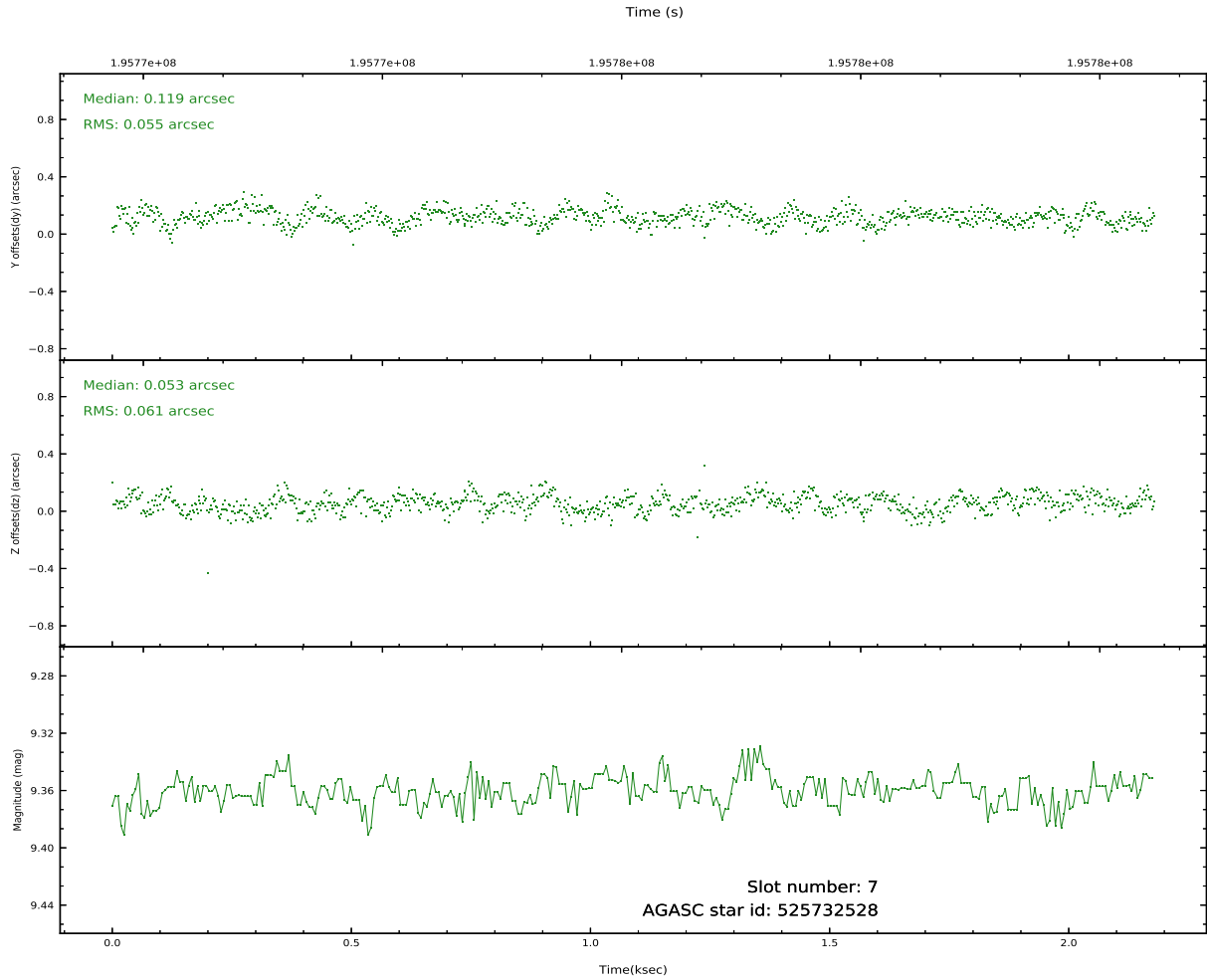
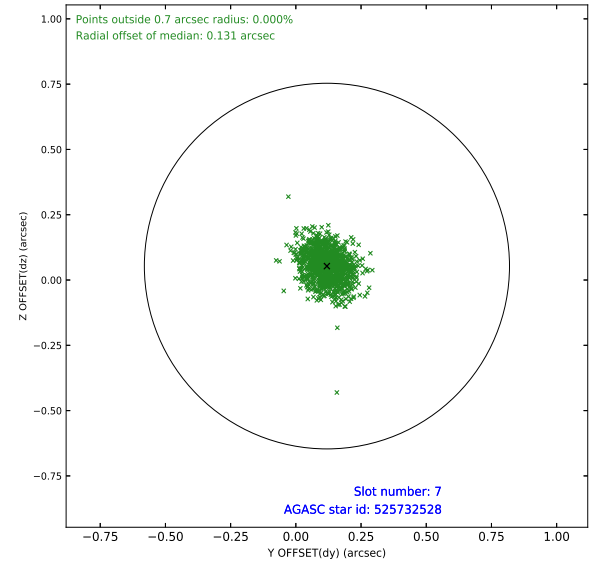
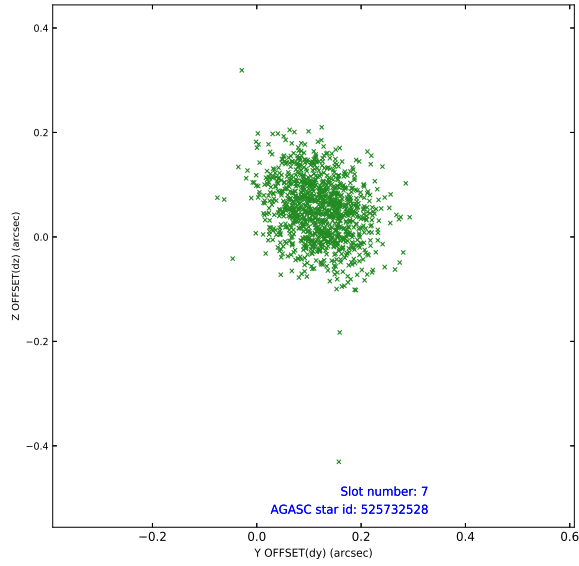
2.4.3 Slot 5



2.4.4 Slot 6

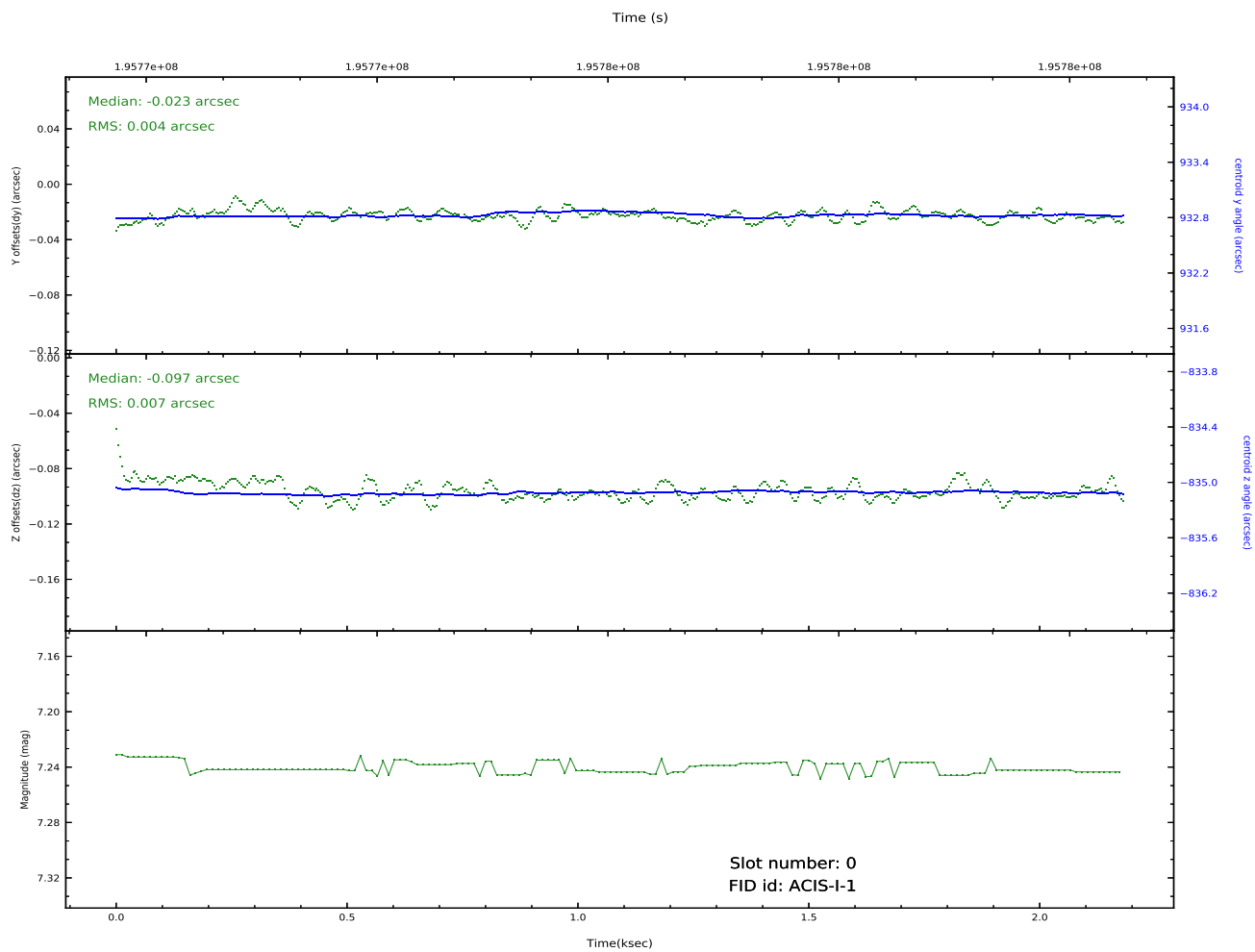
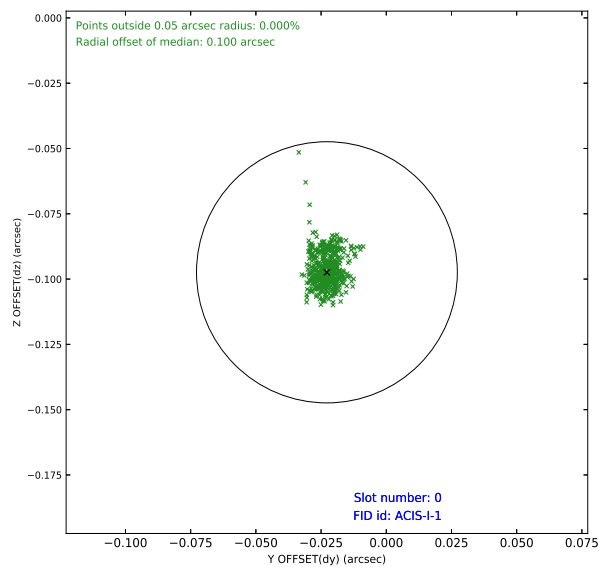
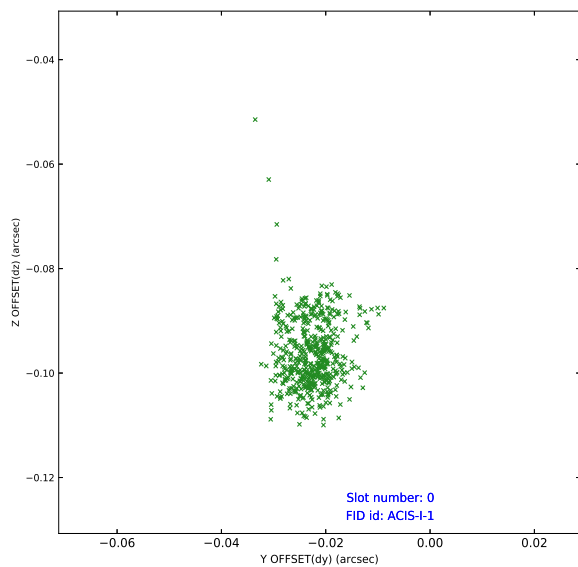


2.4.5 Slot 7

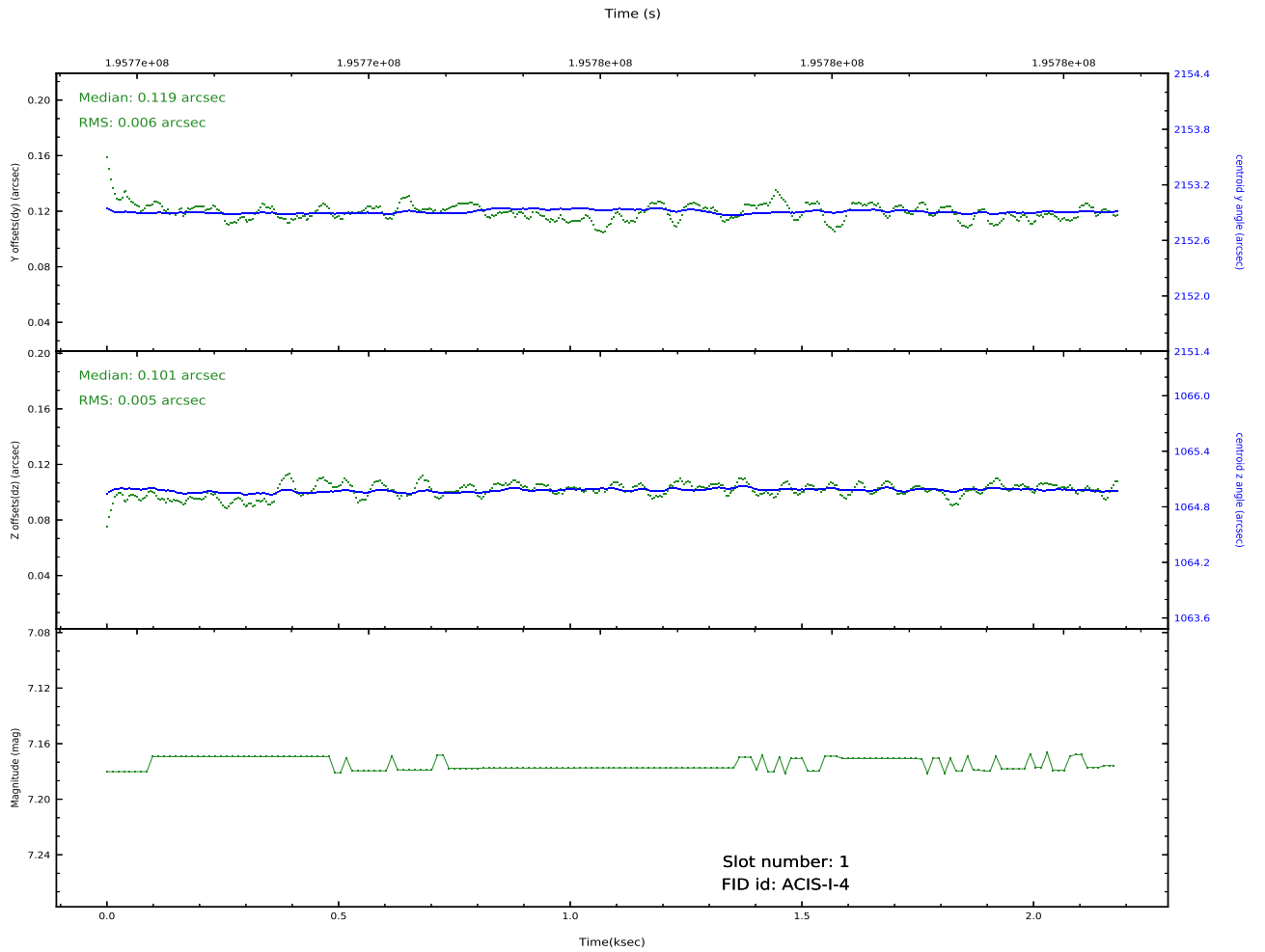
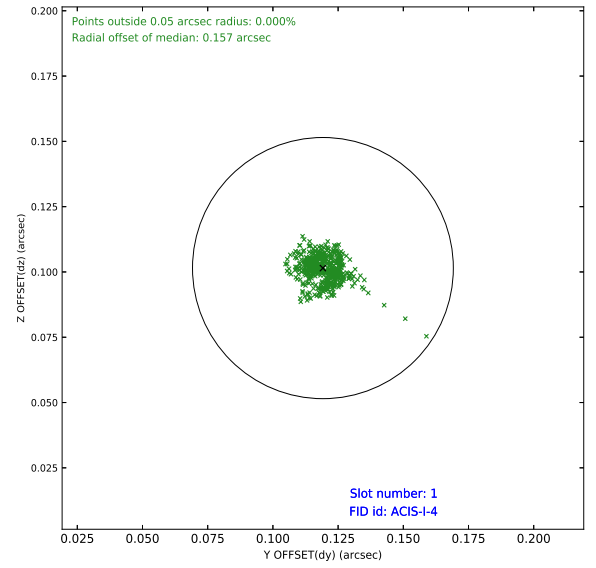
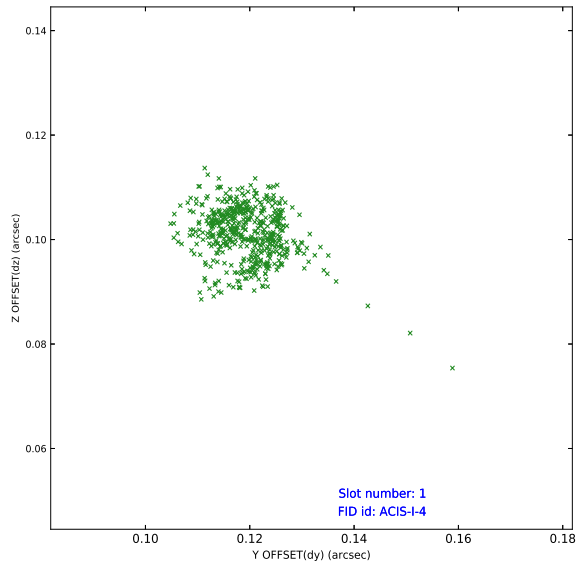


2.5 FID Slots

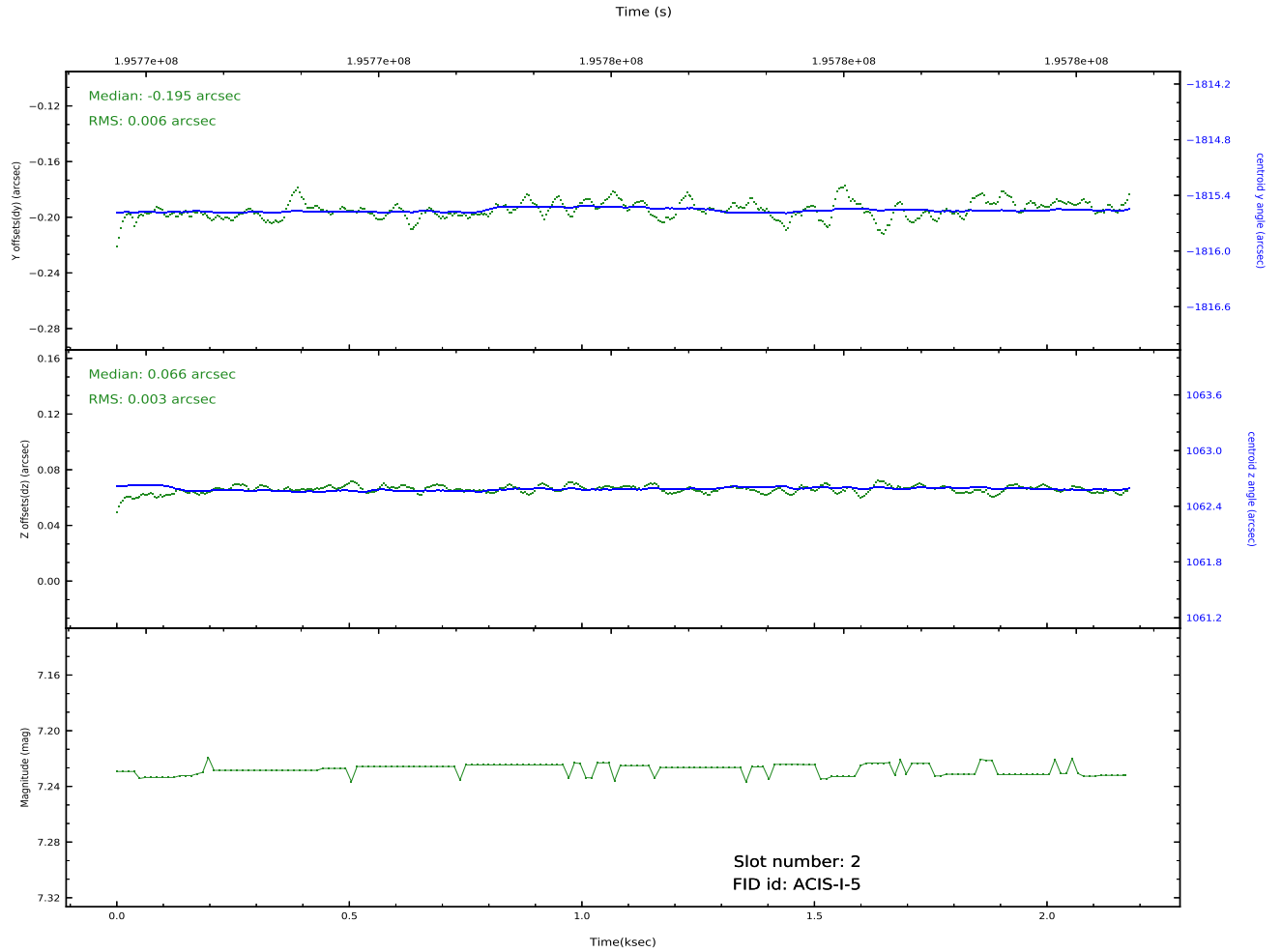
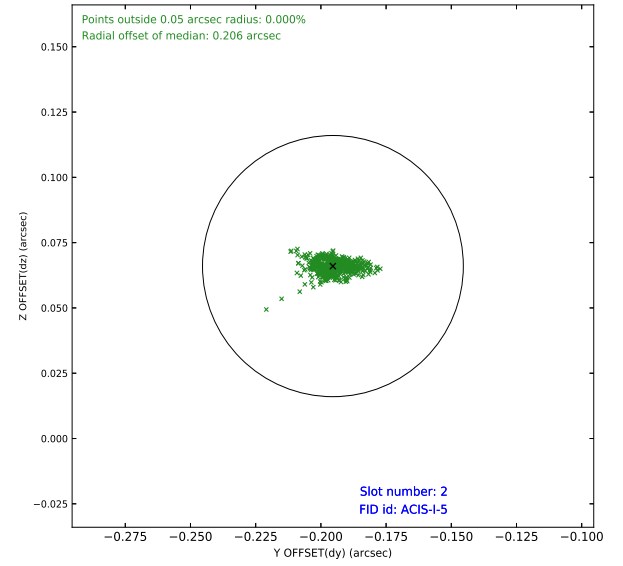
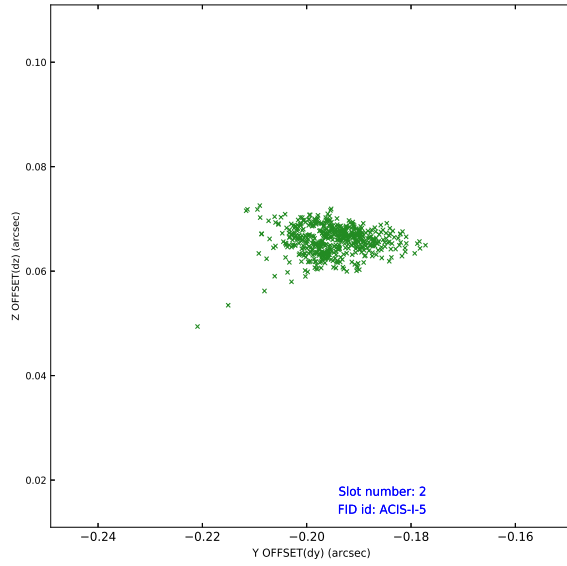
2.5.1 Slot 0



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)	2020.09.24
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.452

A.2 Comments

Charge time for this ObsId remains at previous value of 1.452 ks although with the current processing the charge time would have been 1.45 ksec.

=====

Window constraint met. A spatial exclusion window was specified for this observation. Although 6 CCD chips were active, only events from chip 3 were telemetered.