

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5155 - L2 Version 4
Chandra X-Ray Center

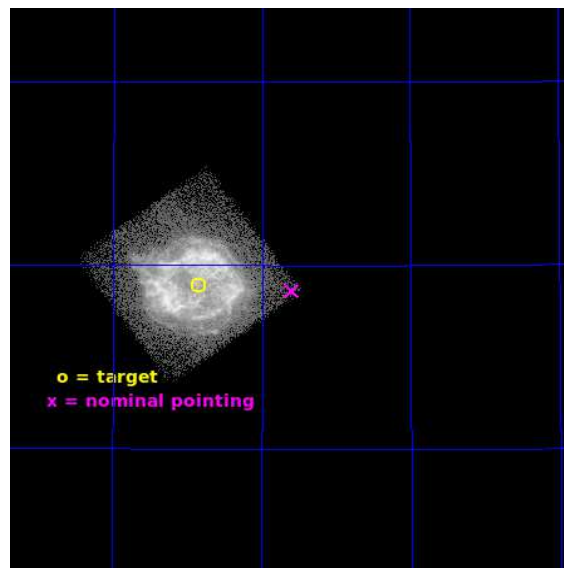
L2 Processing Date : Oct 3 2020

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1 Front

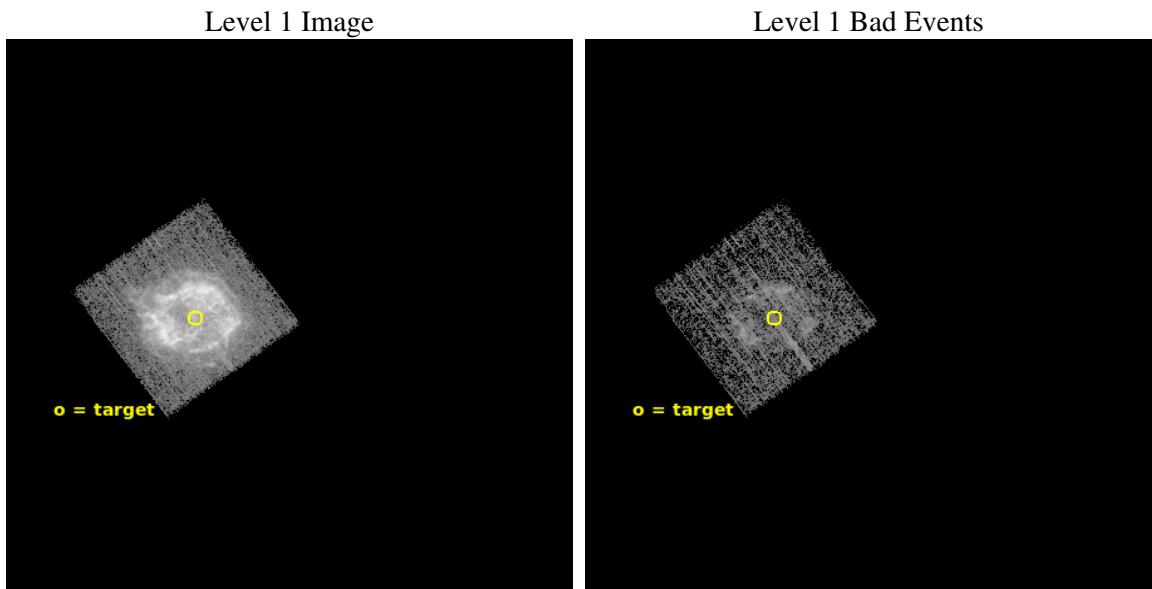
seq_num	590353	Sequence number
obs_id	5155	Observation id
title	AO5B Observations of the Standard Candles Cas A and G21.5-09	Propo
observer	CXC Calibration	Principal investigator
object	Cas A	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	350.8575	Observer's specified target RA [deg]
dec_targ	58.814833	Observer's specified target Dec [deg]
ra_nom	350.69946845637	Nominal RA [deg]
dec_nom	58.81039723414	Nominal Dec [deg]
roll_nom	233.83684280969	Nominal Roll [deg]
revision	4	Processing version of data
ontime	1592.5413612425	Sum of GTIs [s]
livetime	1572.3756436132	Livetime [s]
ontime0	2182.3999918699	Sum of GTIs [s]
ontime1	2182.3999918699	Sum of GTIs [s]
ontime2	2182.3999918699	Sum of GTIs [s]
ontime3	1592.5413612425	Sum of GTIs [s]
ontime6	2182.3999918699	Sum of GTIs [s]
ontime7	2182.3999918699	Sum of GTIs [s]
l2events	332693	Number of level 2 events



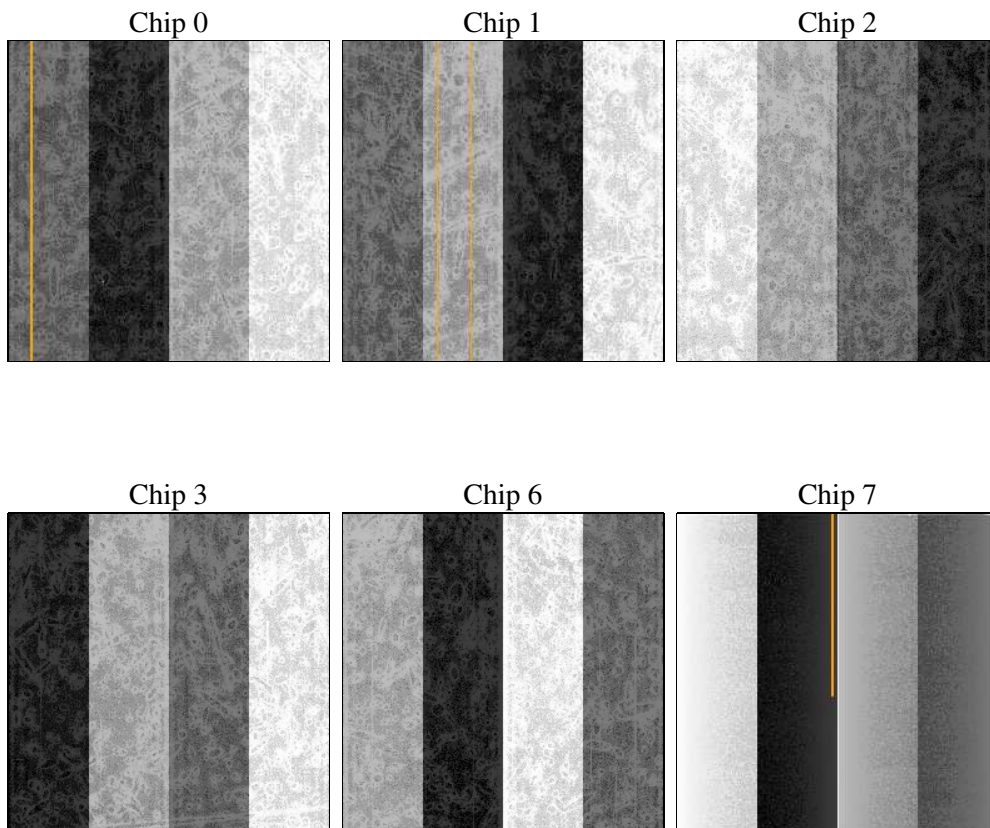
2 OBI

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	1592.5413612425	Sum of GTIs [s]
caldbver	4.9.2	 	ontime0	2182.3999918699	Sum of GTIs [s]
date	2020-10-03T22:25:33	Date and time of file creation	ontime1	2182.3999918699	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	2182.3999918699	Sum of GTIs [s]
			ontime3	1592.5413612425	Sum of GTIs [s]
			ontime6	2182.3999918699	Sum of GTIs [s]
			ontime7	2182.3999918699	Sum of GTIs [s]
			l1events	418759	Number of level 1 events

2.1.4 Events

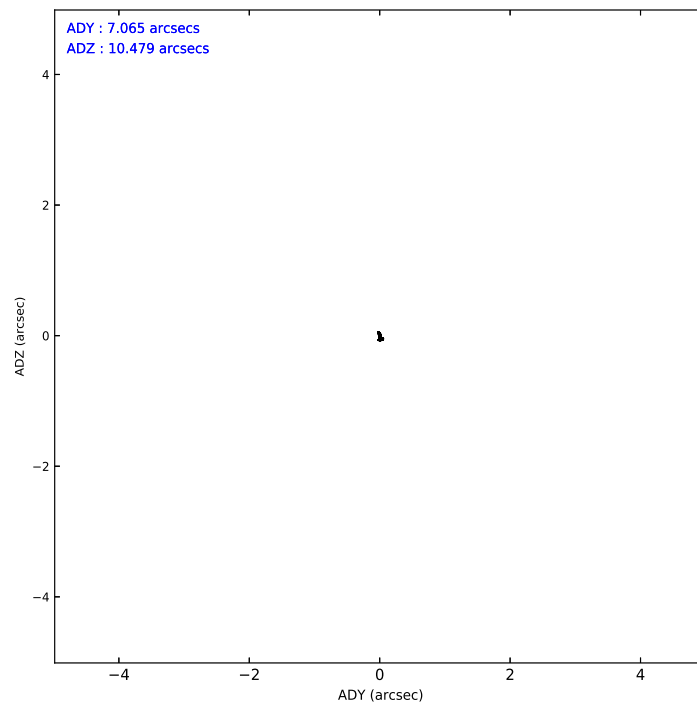
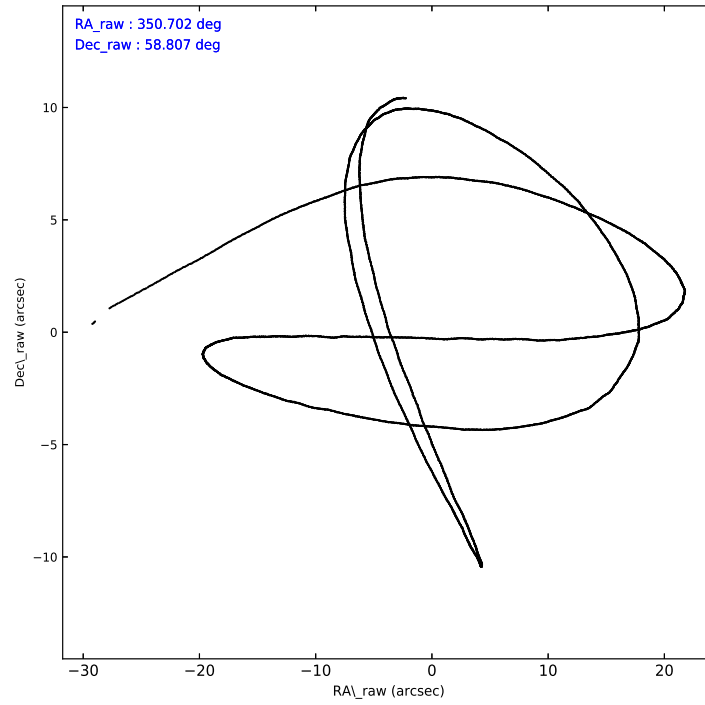
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	0	0	0	418759	0	0
rejected events	0	0	0	76064	0	0
rejected %	0%	0%	0%	18%	0%	0%

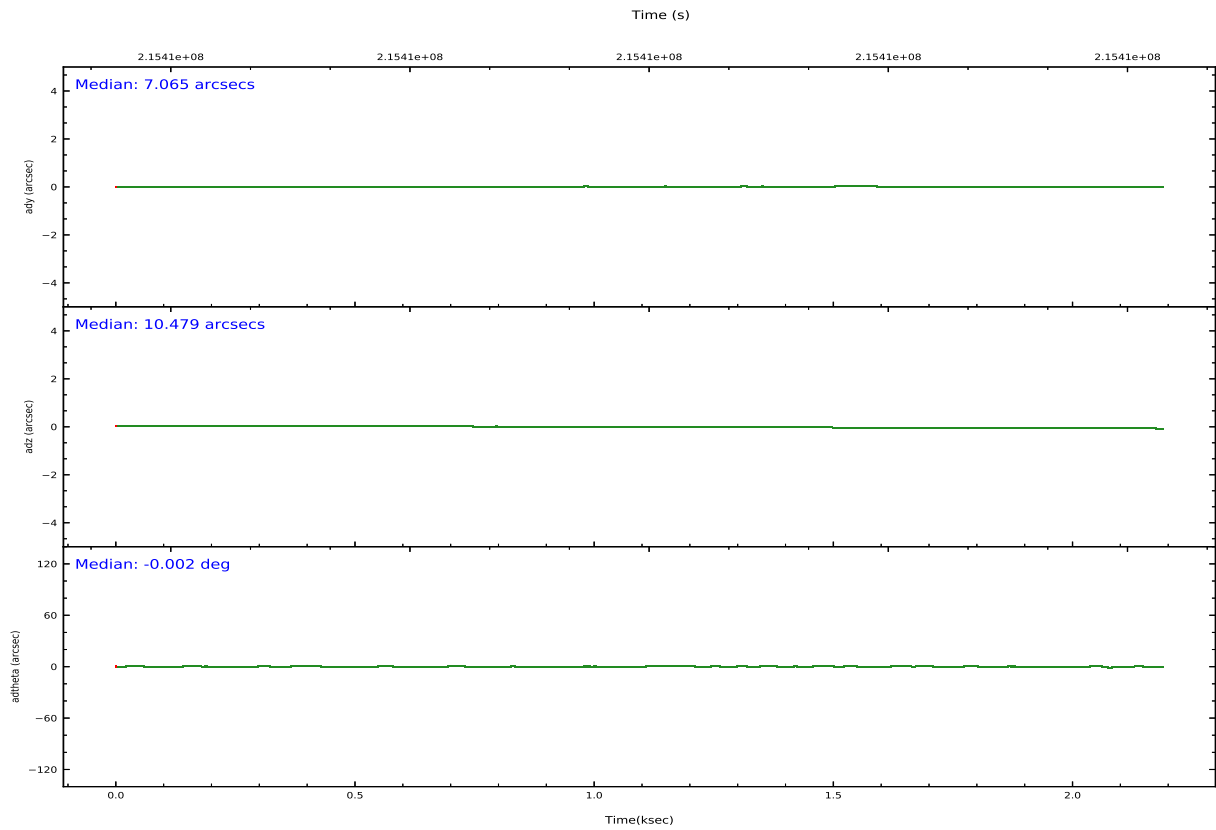
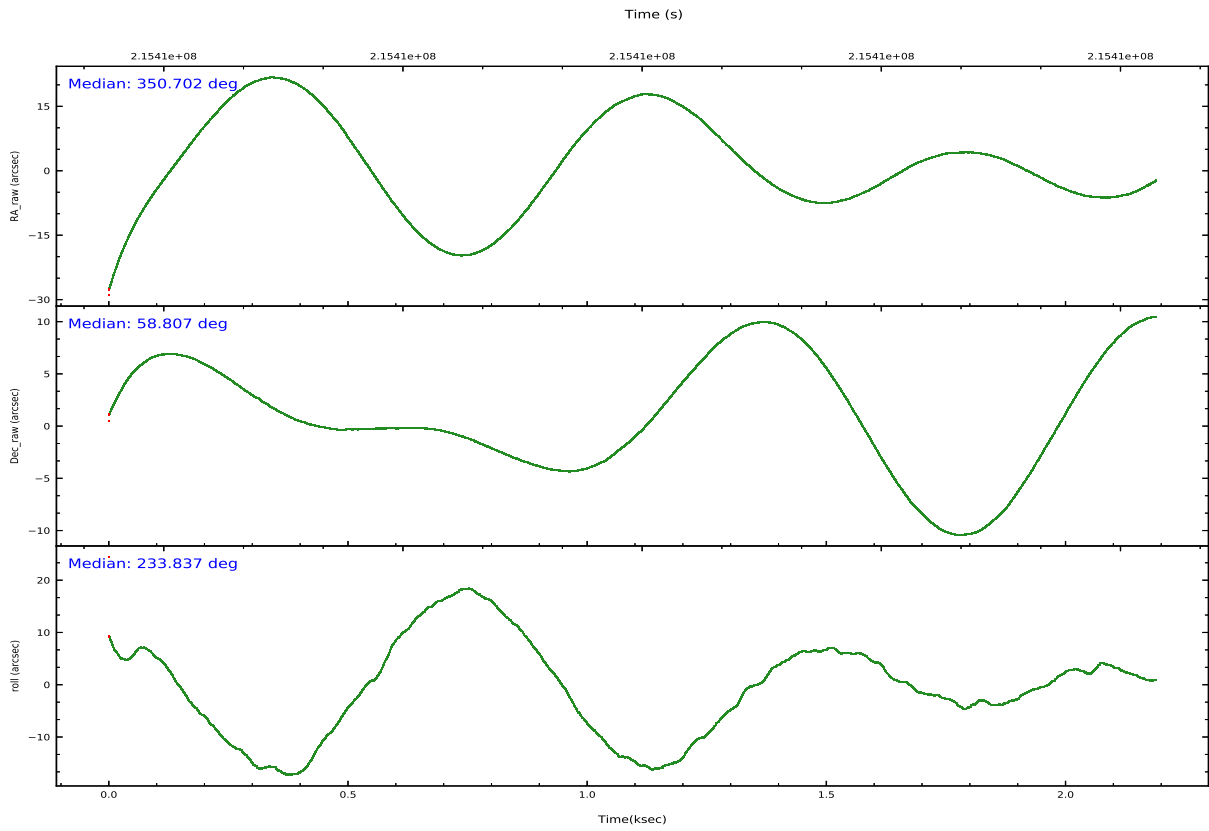
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	0	0	0	283672	0	0
	0%	0%	0%	67%	0%	0%
grade 1 events	0	0	0	4581	0	0
	0%	0%	0%	1%	0%	0%
grade 2 events	0	0	0	35973	0	0
	0%	0%	0%	8%	0%	0%
grade 3 events	0	0	0	11696	0	0
	0%	0%	0%	2%	0%	0%
grade 4 events	0	0	0	11733	0	0
	0%	0%	0%	2%	0%	0%
grade 5 events	0	0	0	3550	0	0
	0%	0%	0%	0%	0%	0%
grade 6 events	0	0	0	7924	0	0
	0%	0%	0%	1%	0%	0%
grade 7 events	0	0	0	59630	0	0
	0%	0%	0%	14%	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	350.707316	350.69946845637	Subarray requested	NONE	NONE
[deg] Pointing Dec	58.834115	58.81039723414	Alternating exposures requested	N	N
[deg] Pointing Roll	233.621887	233.83684280969	[s] Primary exposure time	0.000000	3.2
[s] Window start time (MET)	212976064.184000	212976064.184000			
[s] Window stop time (MET)	215568064.184000	215568064.184000			
[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)	215410074.184000	215408834.61411			
Observation start date	2004-10-29T04:06:50	2004-10-29T03:47:14			
[s] Observation end time (MET)	215412074.184000	215412224.28926			
Observation end date	2004-10-29T04:40:10	2004-10-29T04:43:44			
Read mode	TIMED	TIMED			

2.3 Aspect





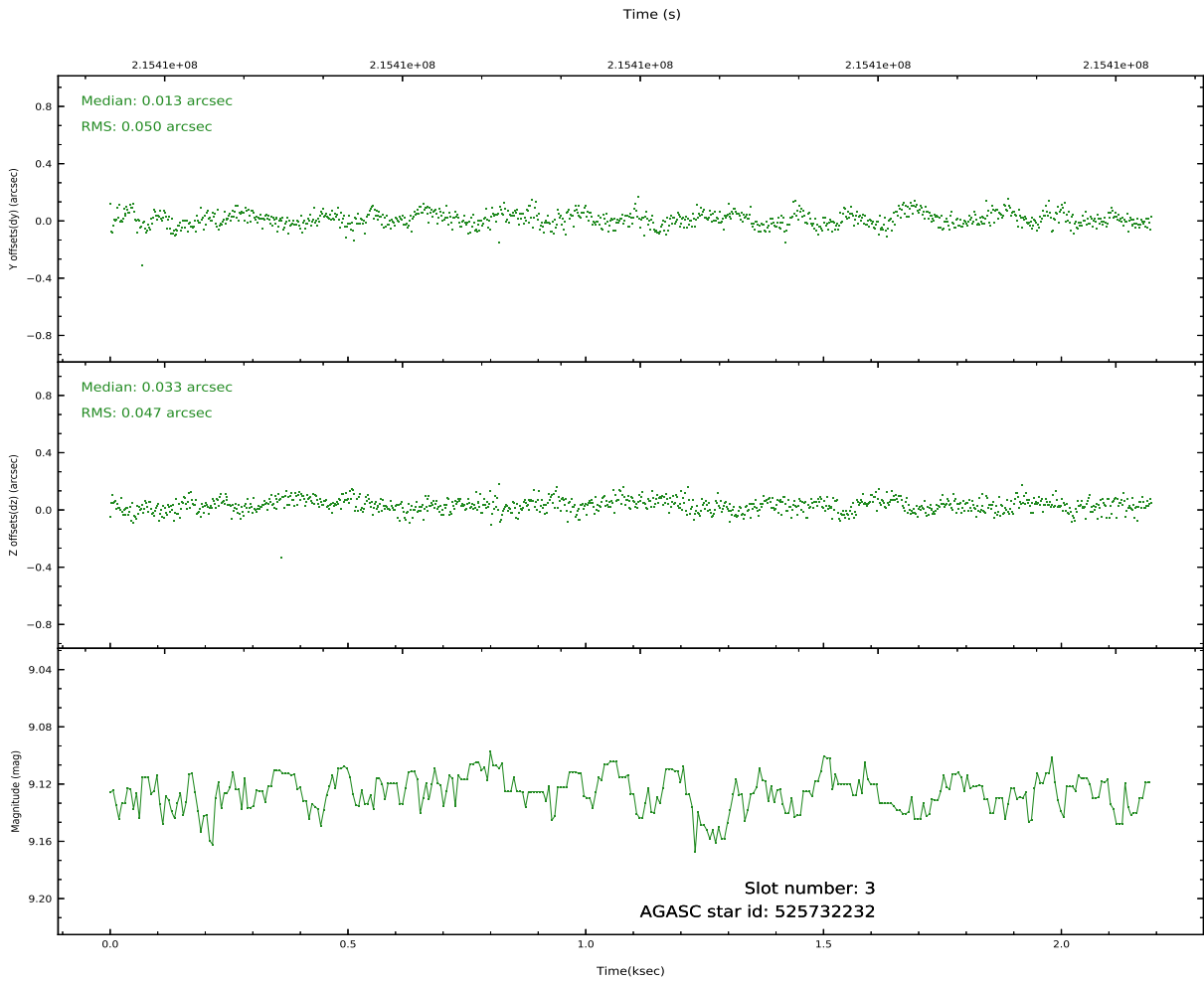
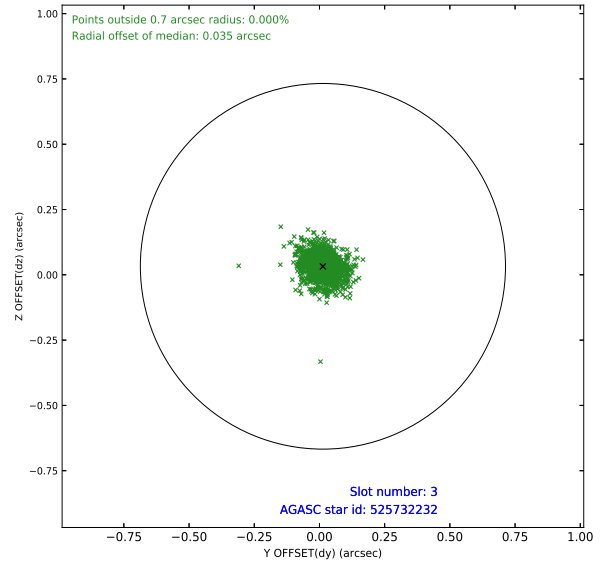
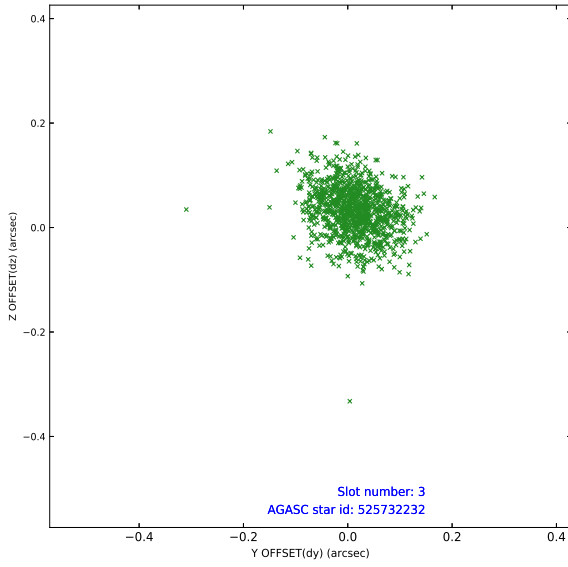
Slot Statistics

slot	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	535	1.000	0.025	-0.029	0.006	0.011	0.000000	0.000000	932.64	-833
1	FID		ACIS-I-5	7.23	535	1.000	-0.200	0.027	0.006	0.011	0.000000	0.000000	-1814.04	1062
2	FID		ACIS-I-6	7.26	535	1.000	0.083	0.072	0.008	0.012	0.000000	0.000000	395.02	1710
3	GUIDE	used	525732232	9.13	1069	1.000	0.013	0.033	0.072	0.115	351.669550	58.757012	-852.06	1604
4	GUIDE	used	525732488	8.42	1068	1.000	0.023	0.080	0.060	0.102	350.087090	58.516915	1606.21	-262
5	GUIDE	used	525735976	8.85	1068	1.000	0.004	-0.092	0.069	0.109	350.142956	58.277622	2244.90	325
6	GUIDE	used	525736400	9.06	1066	1.000	-0.048	0.086	0.074	0.118	350.974563	59.175145	-1279.18	-331
7	GUIDE	used	525732528	9.35	1068	1.000	0.009	-0.108	0.085	0.141	351.607241	59.298932	-2337.91	332

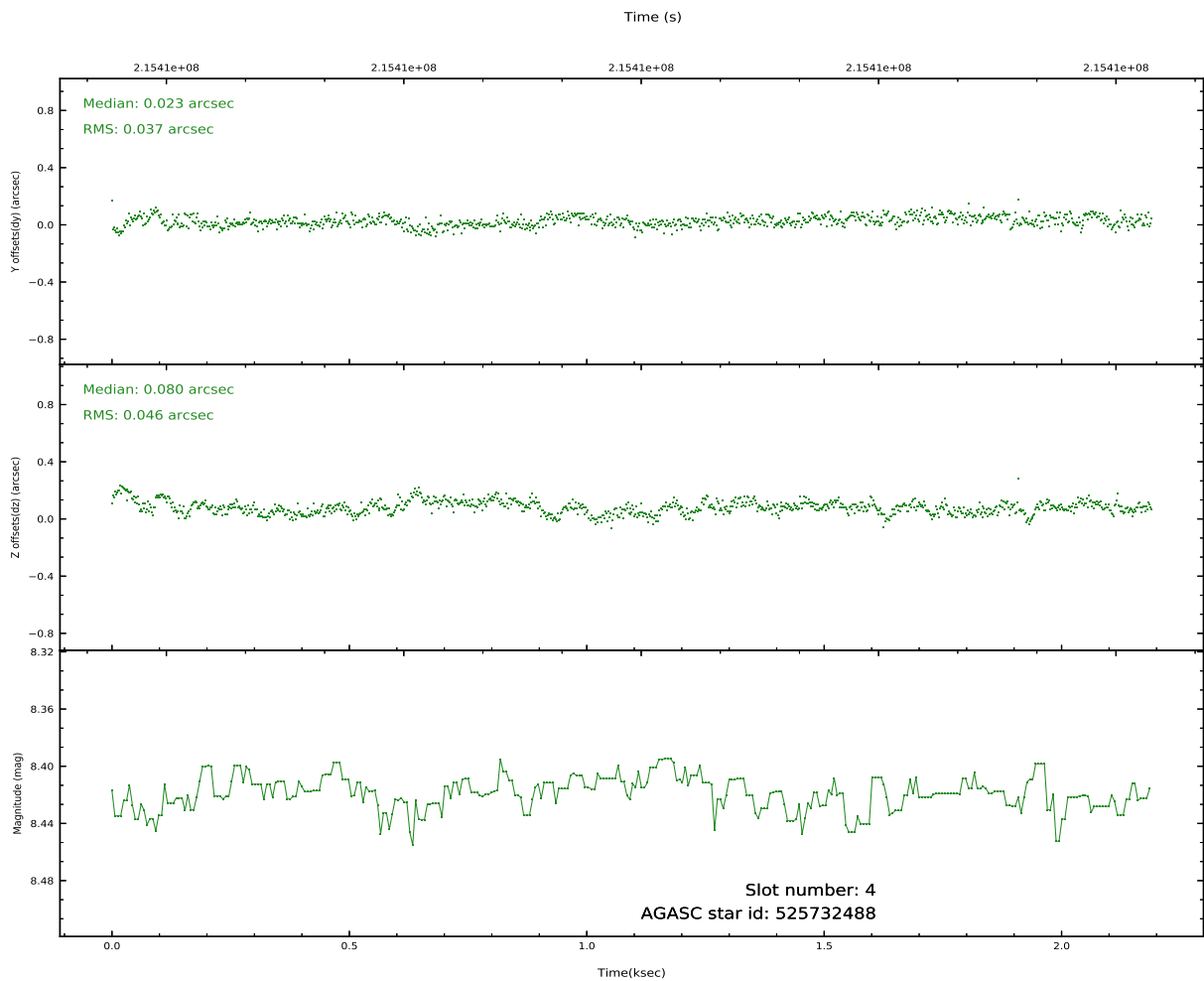
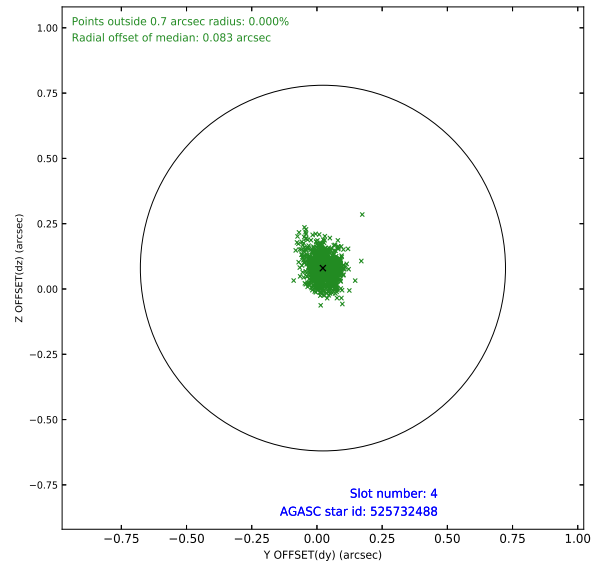
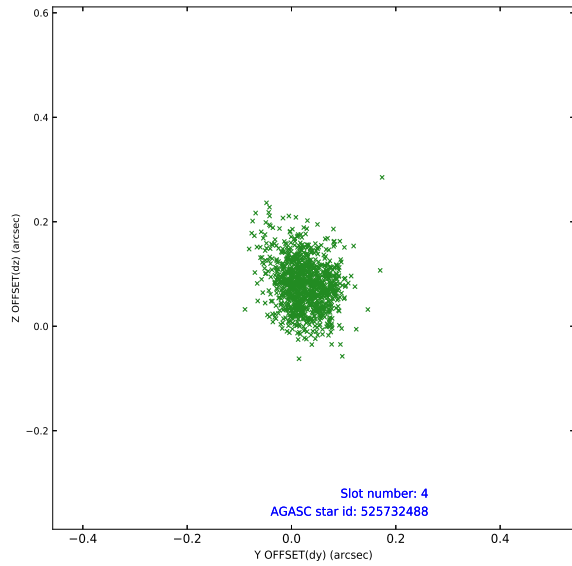
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2.4 Star Slots

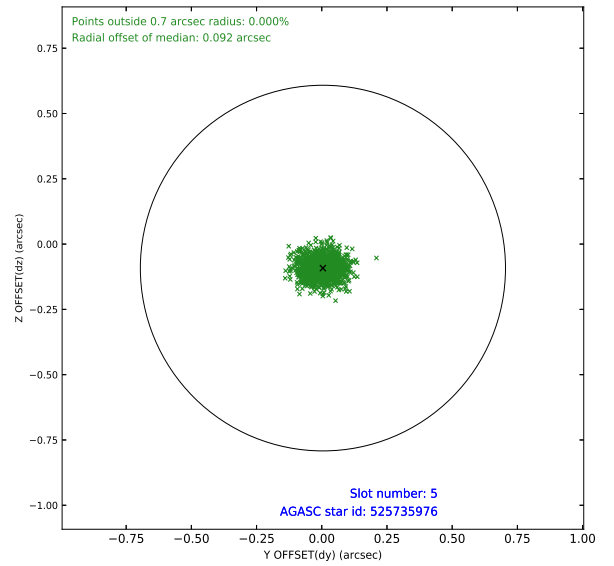
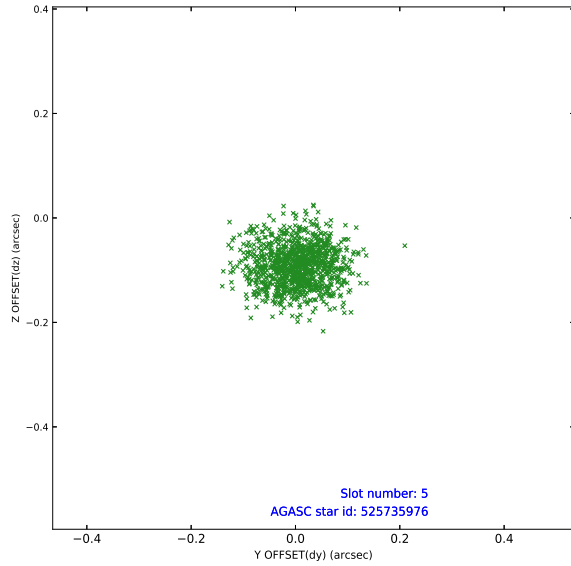
2.4.1 Slot 3



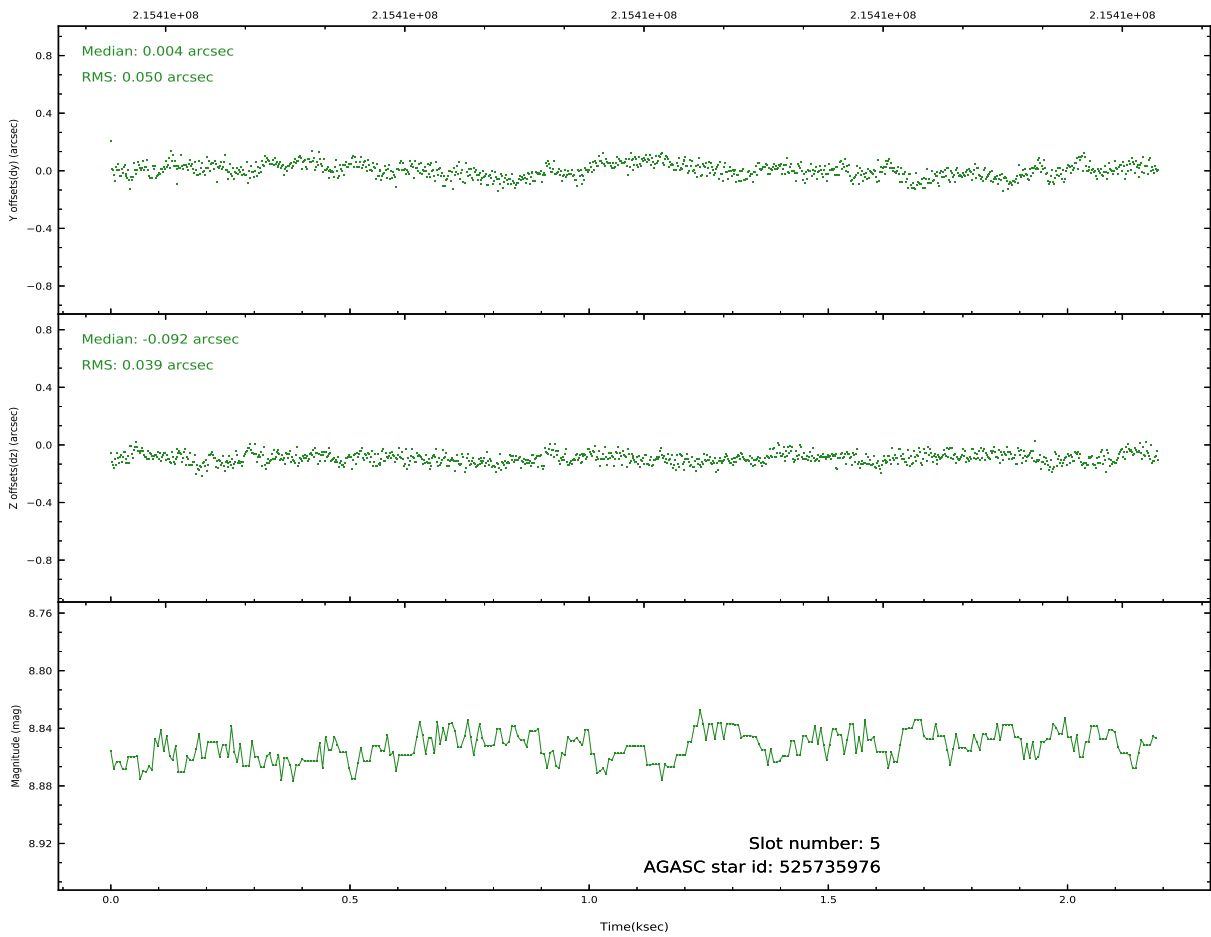
2.4.2 Slot 4



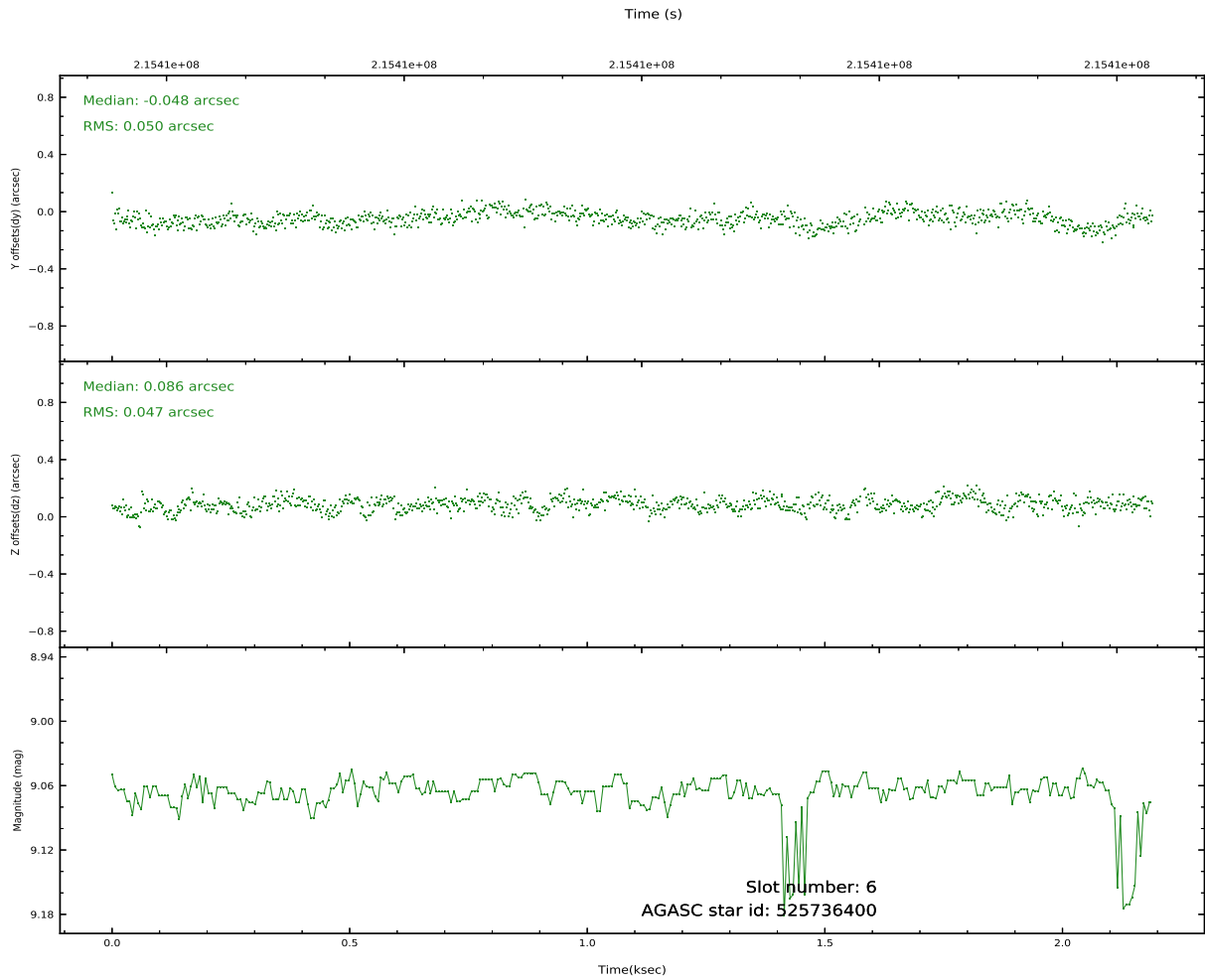
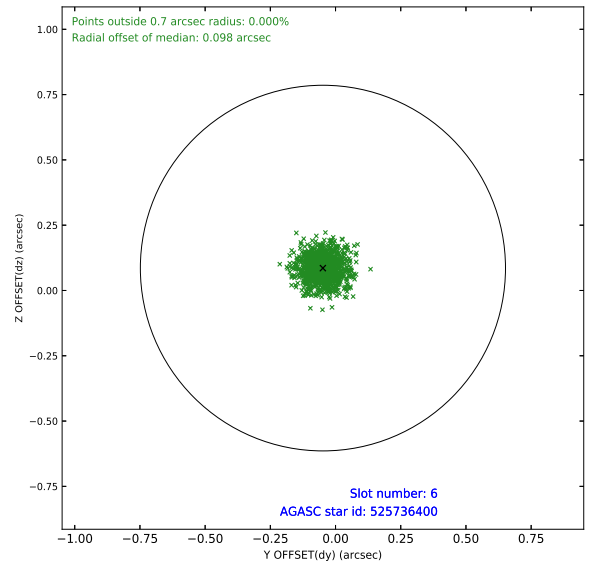
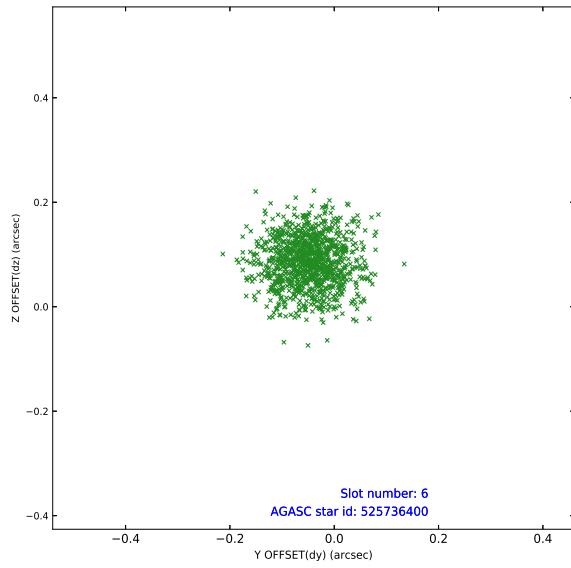
2.4.3 Slot 5



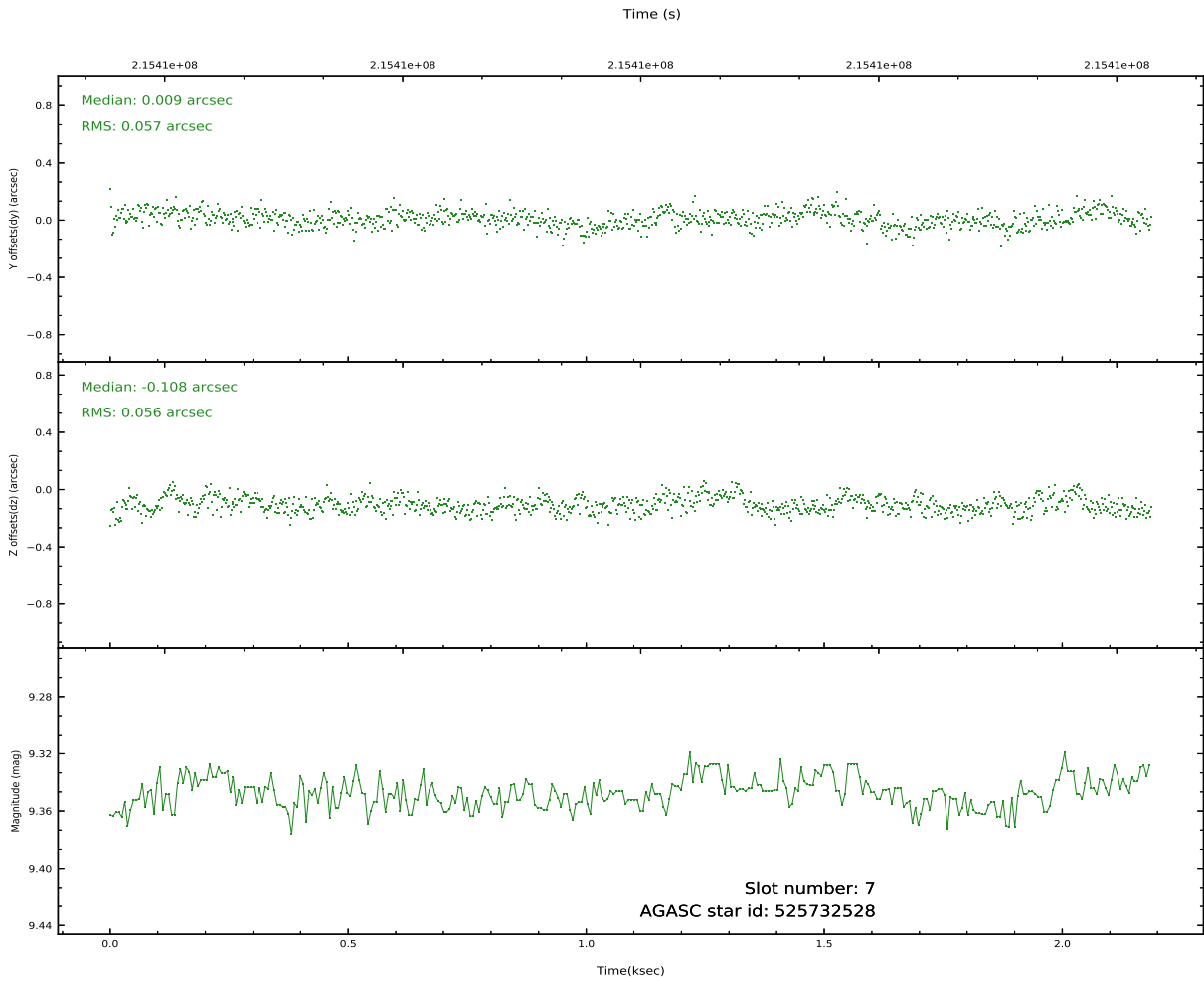
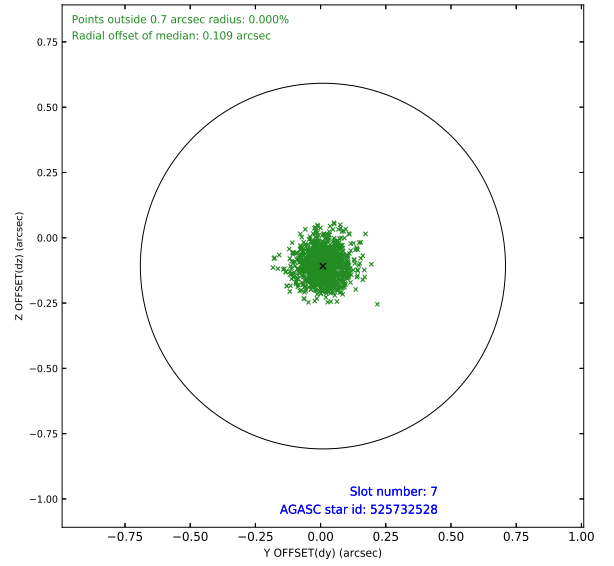
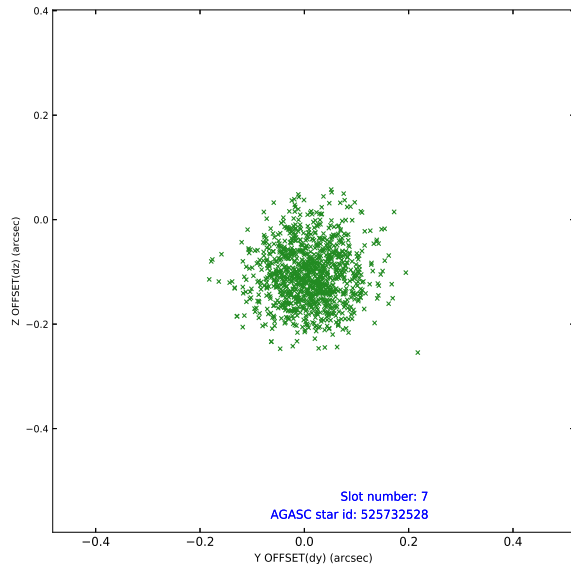
Time (s)



2.4.4 Slot 6

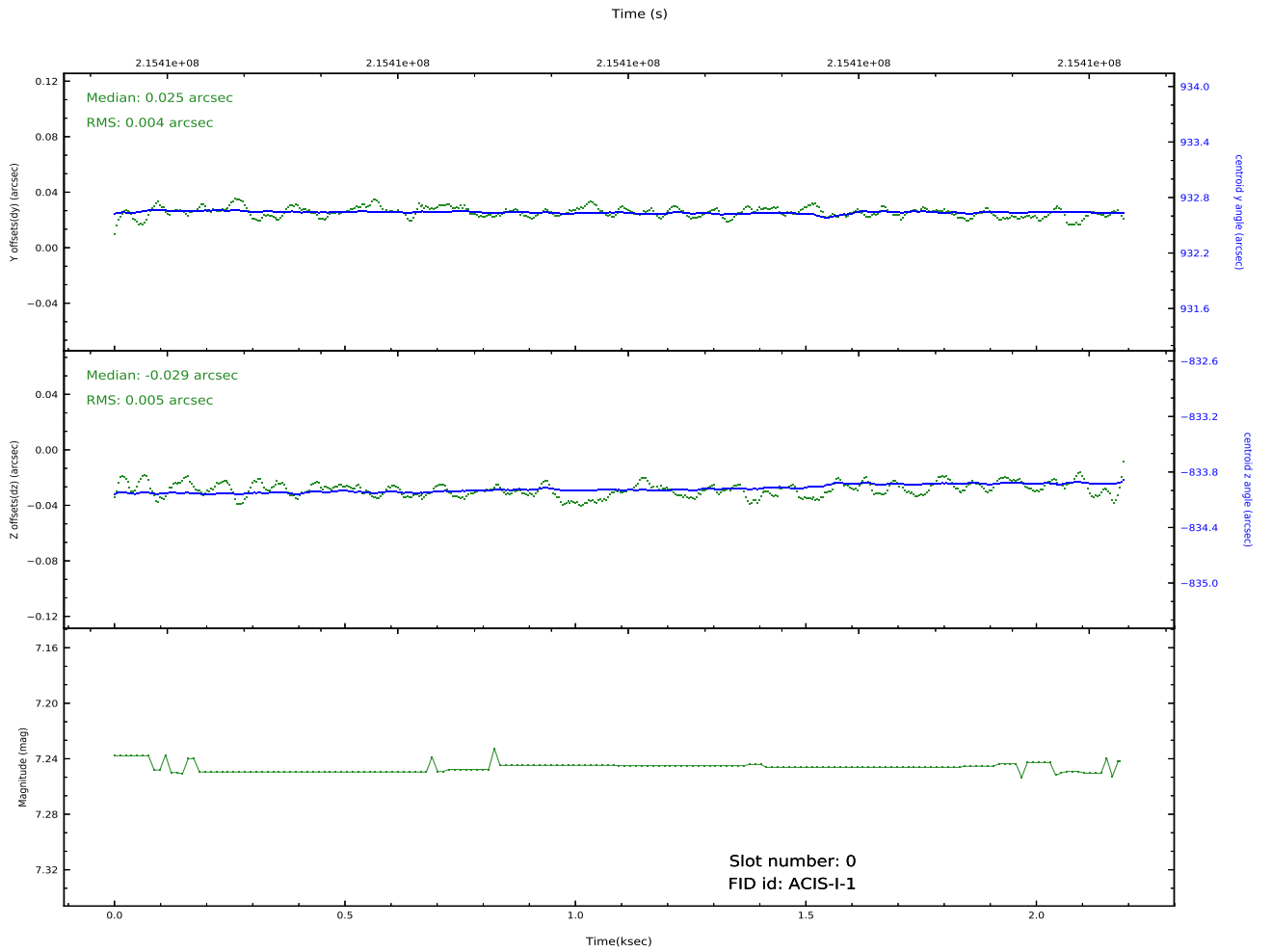
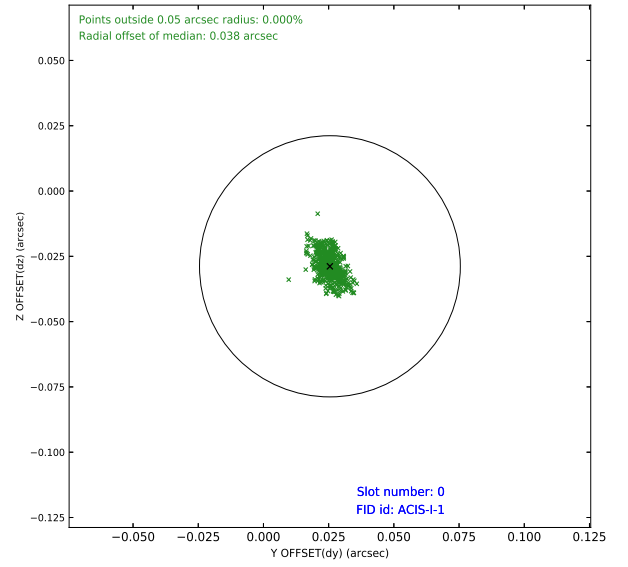
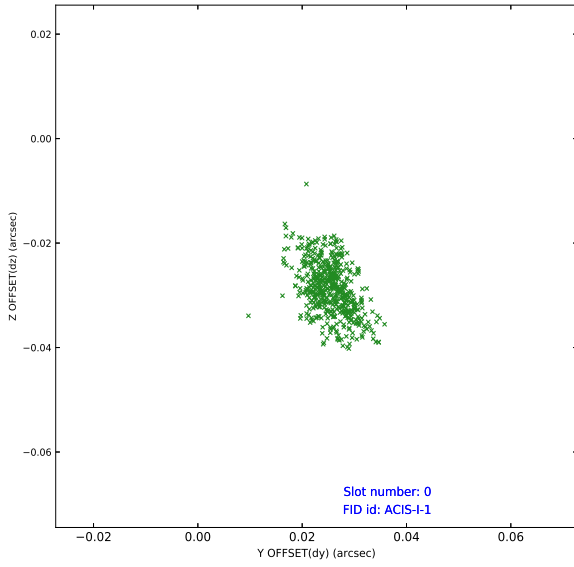


2.4.5 Slot 7

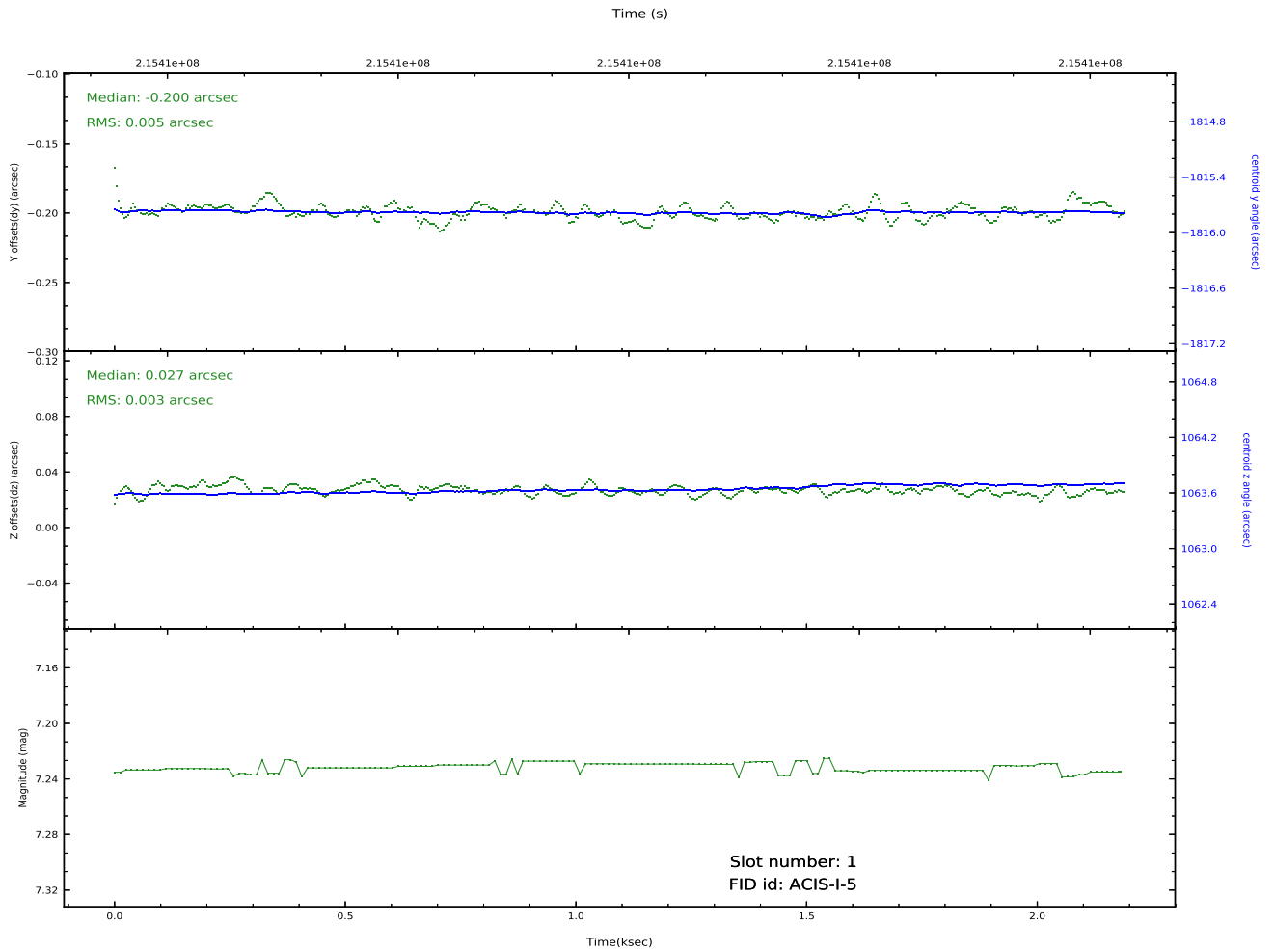
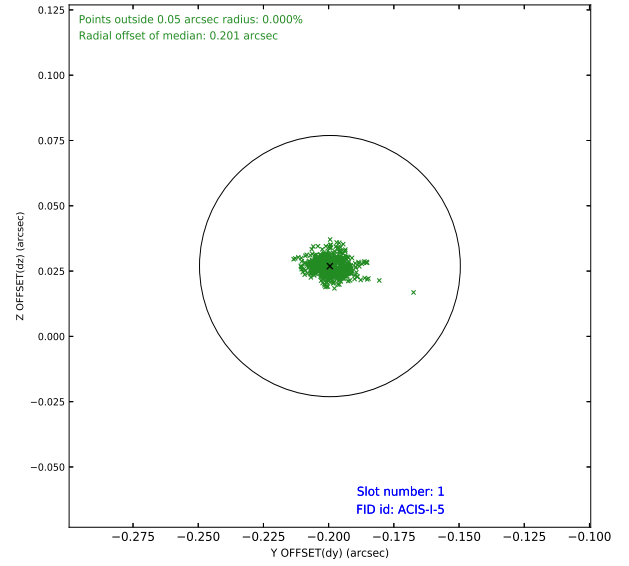
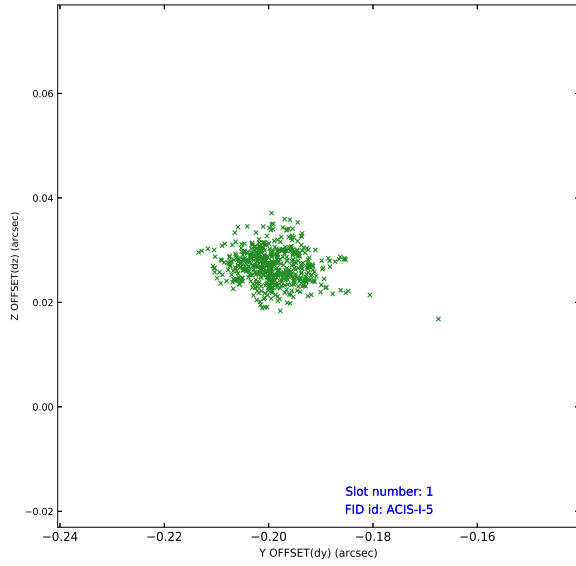


2.5 FID Slots

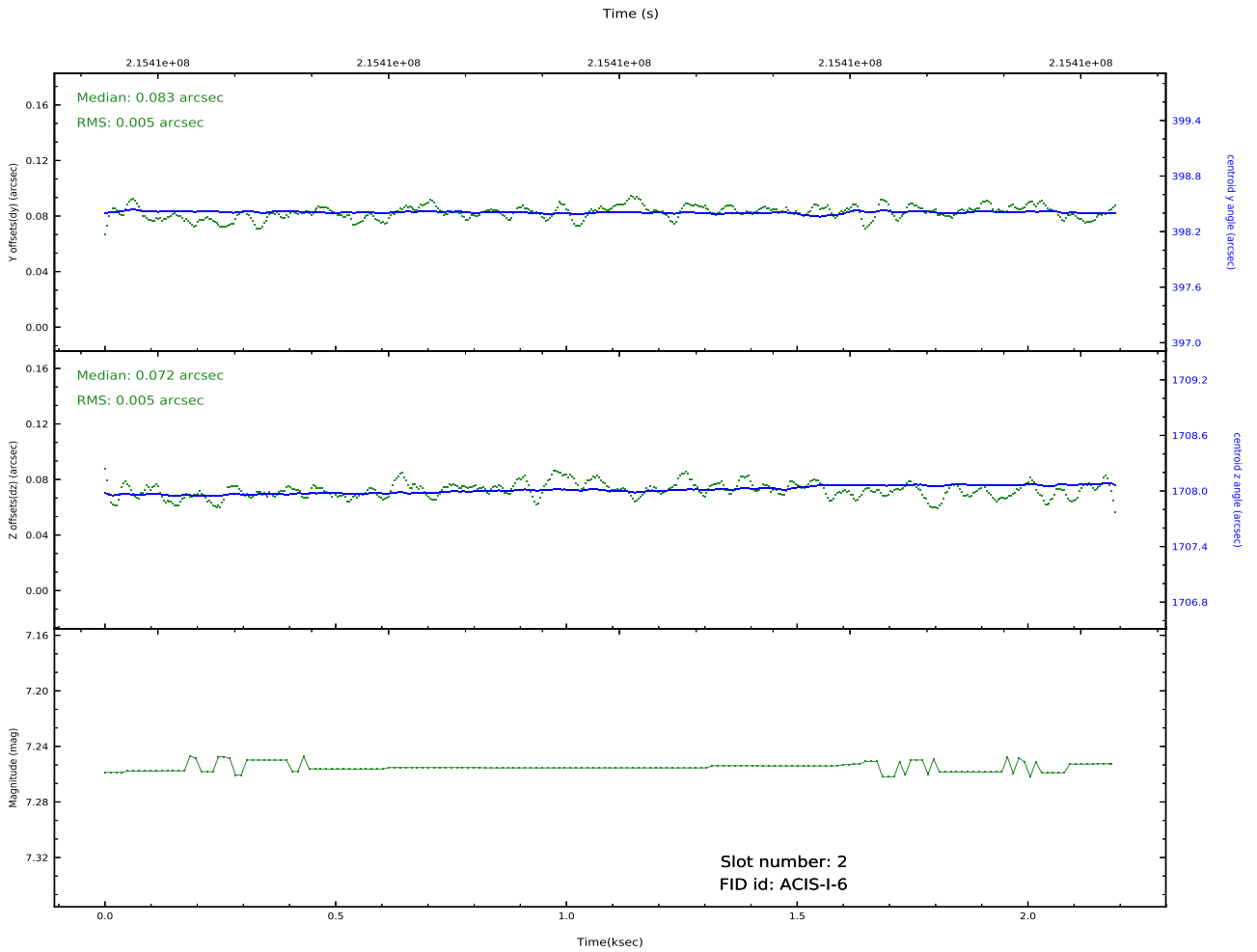
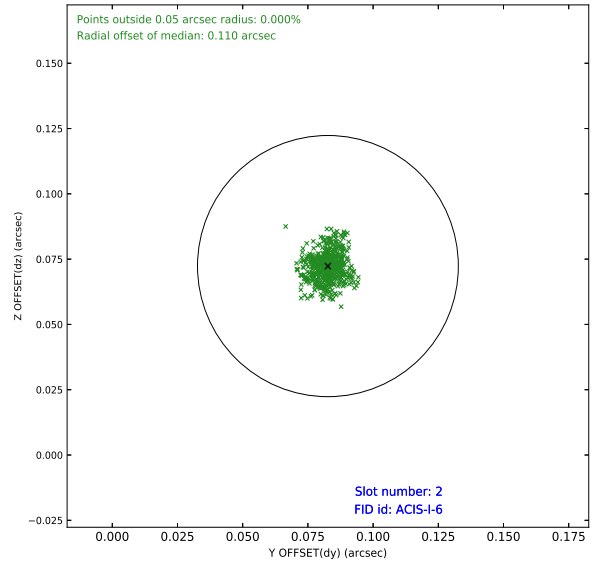
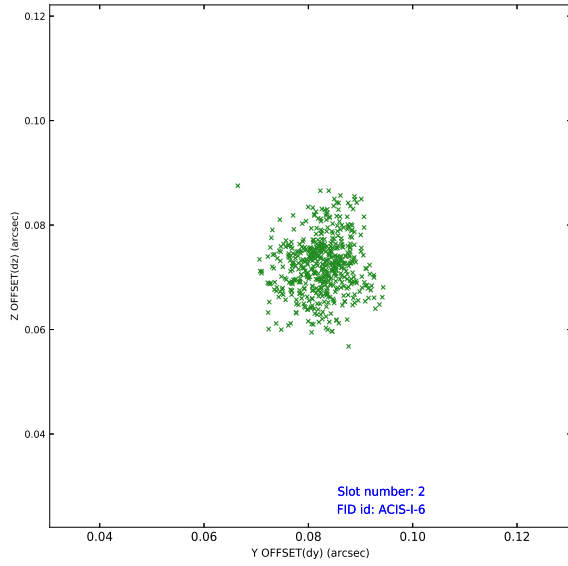
2.5.1 Slot 0



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)	2020.10.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.59254136

A.2 Comments

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.