

# V&V Reference Report

## L2 ASCDS Version : 10.9.1

Observation 6098 - L2 Version 4  
Chandra X-Ray Center

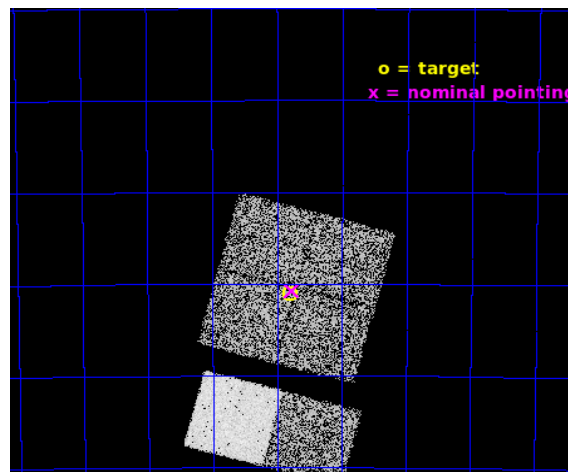
L2 Processing Date : Oct 2 2020

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# 1 Front

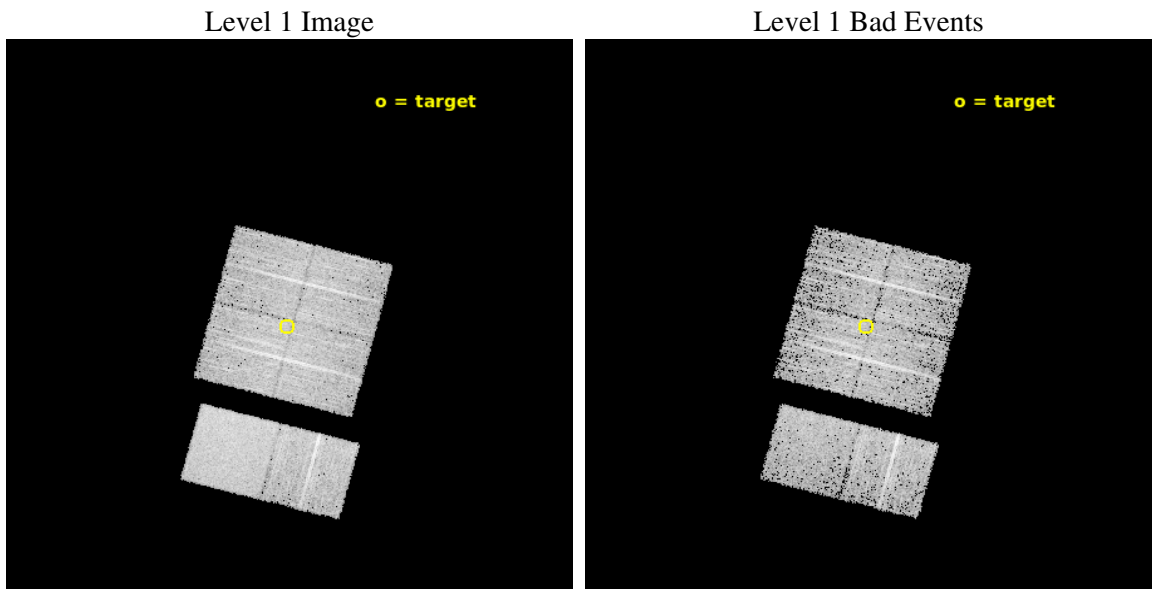
seq_num	500585	Sequence number
obs_id	6098	Observation id
title	Search for the Counterpart of a New TeV Gamma-ray Source in the Galactic Plane	Proposal title
observer	Jules Halpern	Principal investigator
object	HESS J1303-631	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	195.7	Observer's specified target RA [deg]
dec_targ	-63.183333	Observer's specified target Dec [deg]
ra_nom	195.69280037737	Nominal RA [deg]
dec_nom	-63.178986449816	Nominal Dec [deg]
roll_nom	194.84803640629	Nominal Roll [deg]
revision	4	Processing version of data
ontime	4707.1999824643	Sum of GTIs [s]
livetime	4647.5945819508	Livetime [s]
ontime0	4707.1999824643	Sum of GTIs [s]
ontime1	4707.1999824643	Sum of GTIs [s]
ontime2	4707.1999824643	Sum of GTIs [s]
ontime3	4707.1999824643	Sum of GTIs [s]
ontime6	4707.1999824643	Sum of GTIs [s]
ontime7	4707.1999824643	Sum of GTIs [s]
l2events	38375	Number of level 2 events



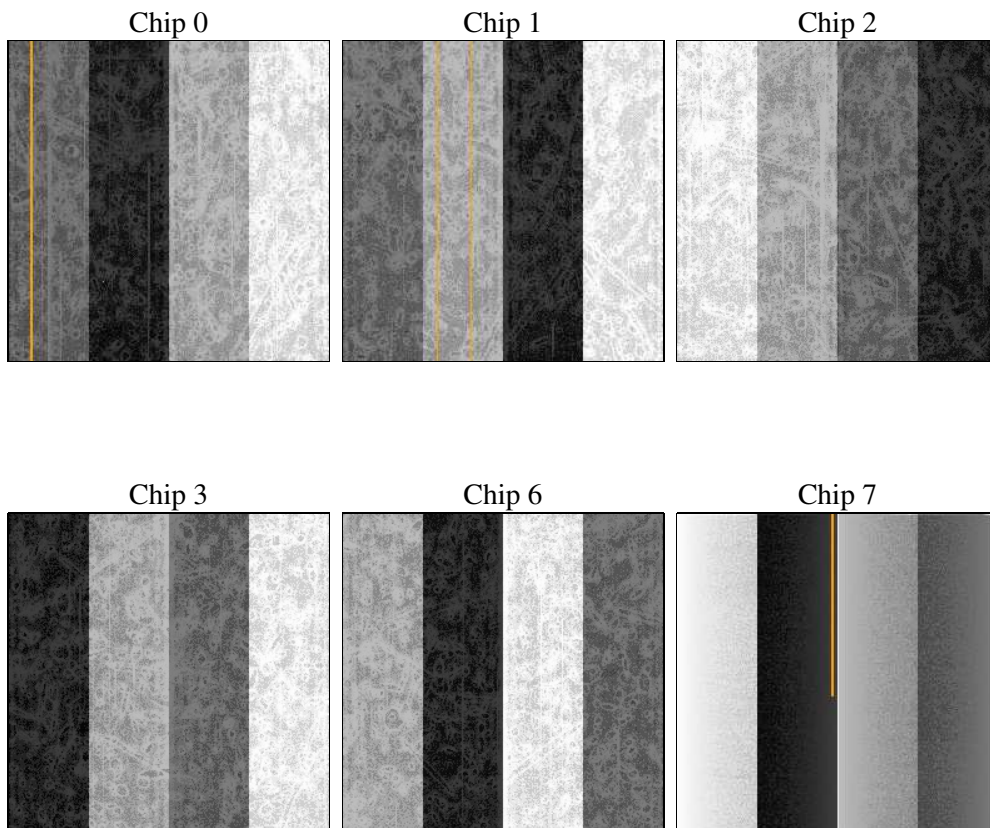
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	4750.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	4707.1999824643	Sum of GTIs [s]
caldsver	4.9.2	&#160	ontime0	4707.1999824643	Sum of GTIs [s]
date	2020-10-02T10:16:01	Date and time of file creation	ontime1	4707.1999824643	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	4707.1999824643	Sum of GTIs [s]
			ontime3	4707.1999824643	Sum of GTIs [s]
			ontime6	4707.1999824643	Sum of GTIs [s]
			ontime7	4707.1999824643	Sum of GTIs [s]
			l1events	221528	Number of level 1 events

### 2.1.4 Events

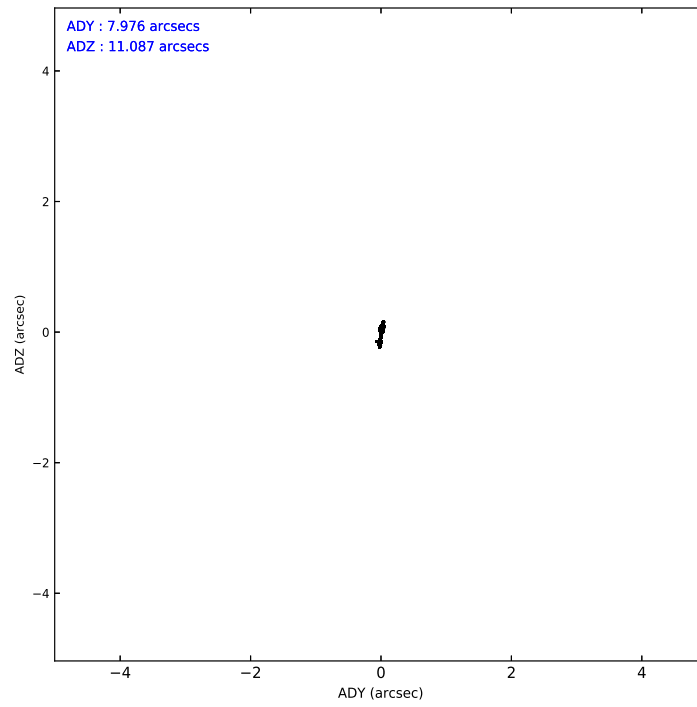
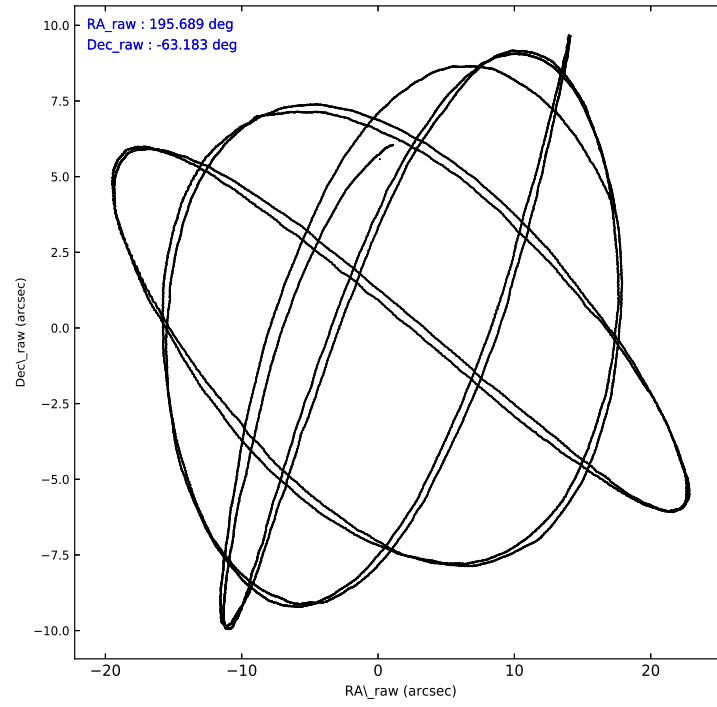
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	33525	32211	35404	36808	36683	46897	grade 0 events	2059	1981	2011	1989	1767	1734
rejected events	28906	27417	30977	32443	32302	27421		6%	6%	5%	5%	4%	3%
rejected %	86%	85%	87%	88%	88%	58%	grade 1 events	20	16	19	22	17	51
								0%	0%	0%	0%	0%	0%
							grade 2 events	977	1059	878	840	939	3854
								2%	3%	2%	2%	2%	8%
							grade 3 events	451	445	416	417	432	1661
								1%	1%	1%	1%	1%	3%
							grade 4 events	375	433	400	435	398	1643
								1%	1%	1%	1%	1%	3%
							grade 5 events	1379	1453	1315	1573	1613	4477
								4%	4%	3%	4%	4%	9%
							grade 6 events	759	877	723	685	849	10594
								2%	2%	2%	1%	2%	22%
							grade 7 events	27505	25947	29642	30847	30668	22883
								82%	80%	83%	83%	83%	48%

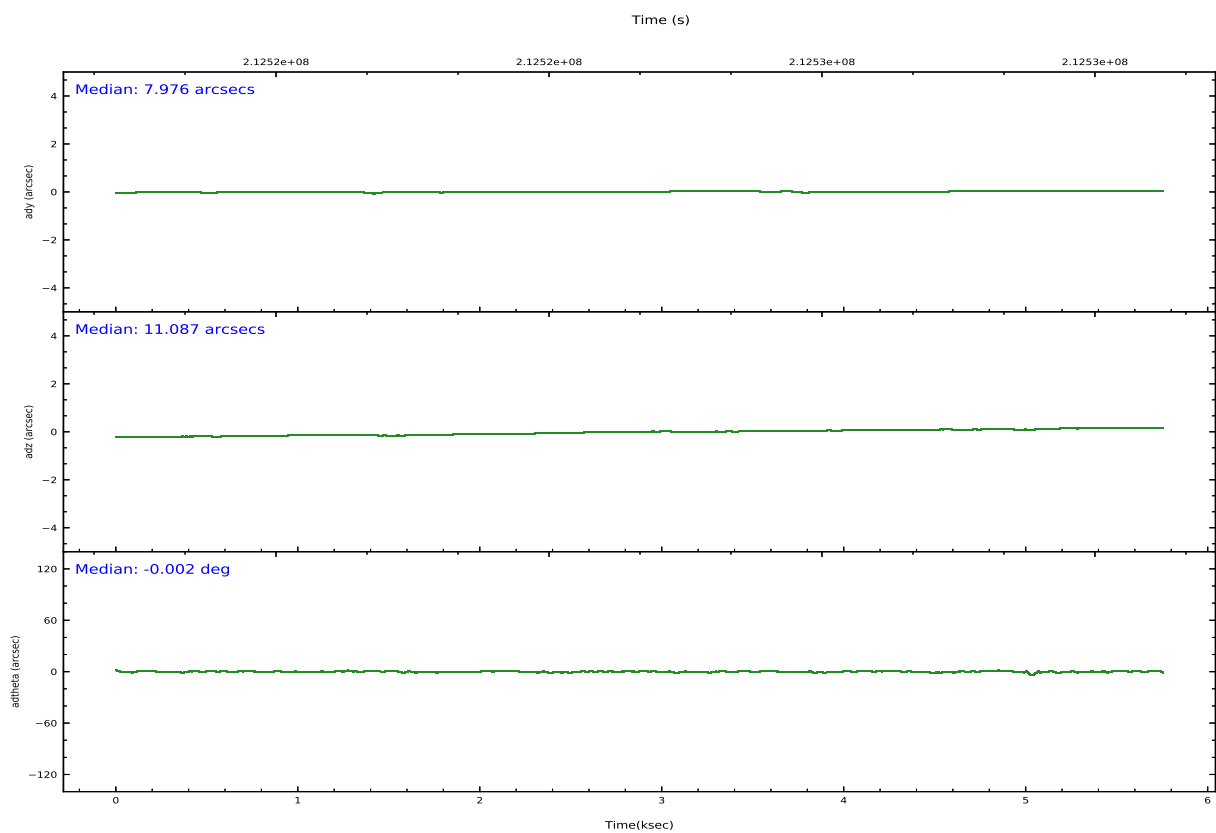
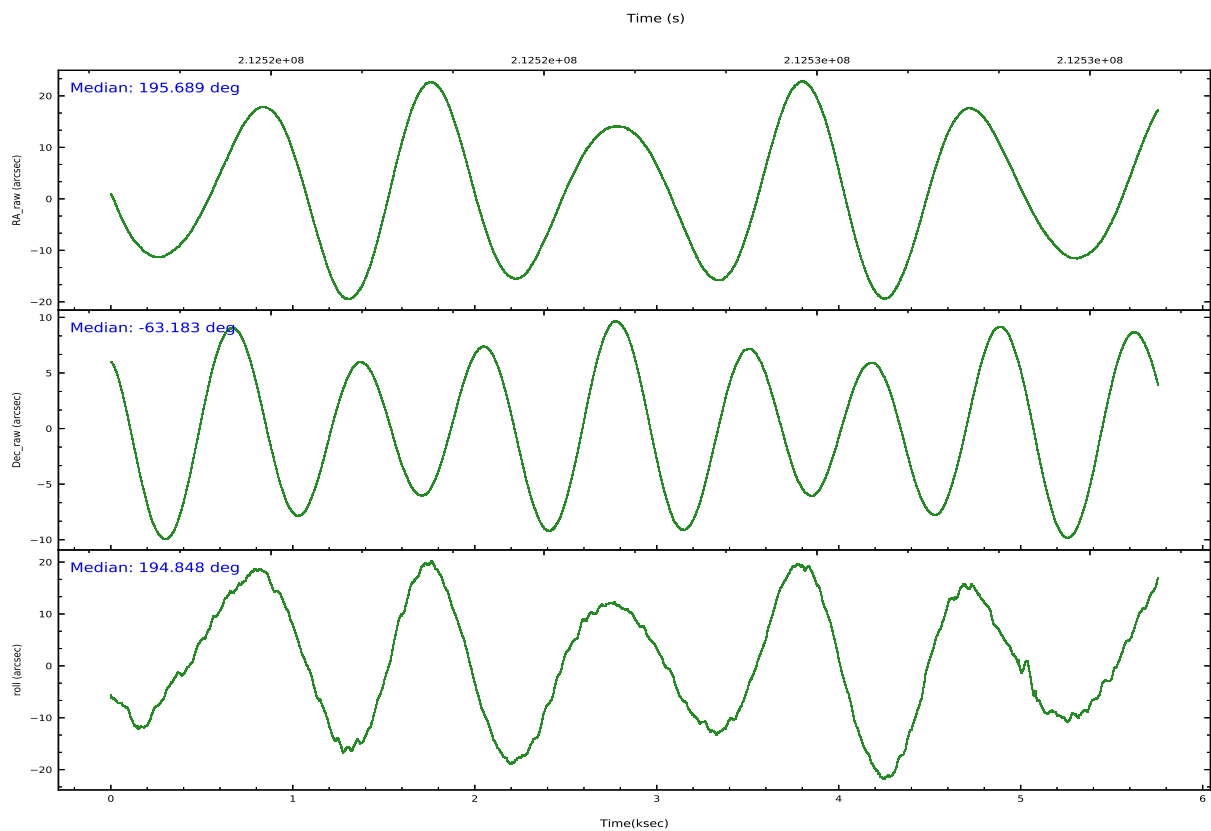


## 2.2 Compared Parameters

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	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	195.732656	195.69280037737	Subarray requested	NONE	NONE
[deg] Pointing Dec	-63.163276	-63.178986449816	Alternating exposures requested	N	N
[deg] Pointing Roll	194.681047	194.84803640629	[s] Primary exposure time	0.000000	3.2
[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)	212522625.184000	212521251.12246			
Observation start date	2004-09-25T18:02:41	2004-09-25T17:40:51			
[s] Observation end time (MET)	212527375.184000	212528892.4978			
Observation end date	2004-09-25T19:21:51	2004-09-25T19:48:12			
Read mode	TIMED	TIMED			

## 2.3 Aspect



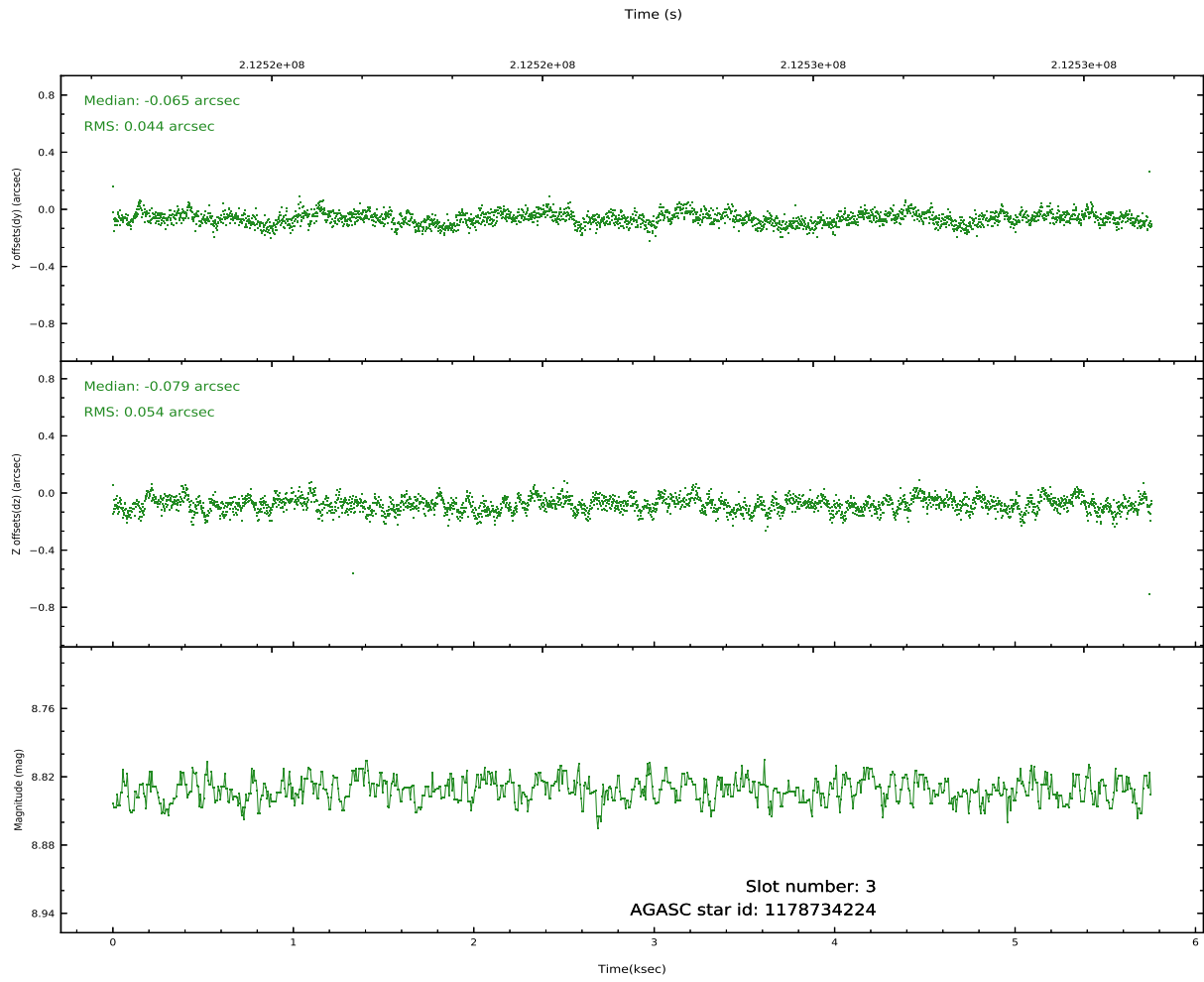
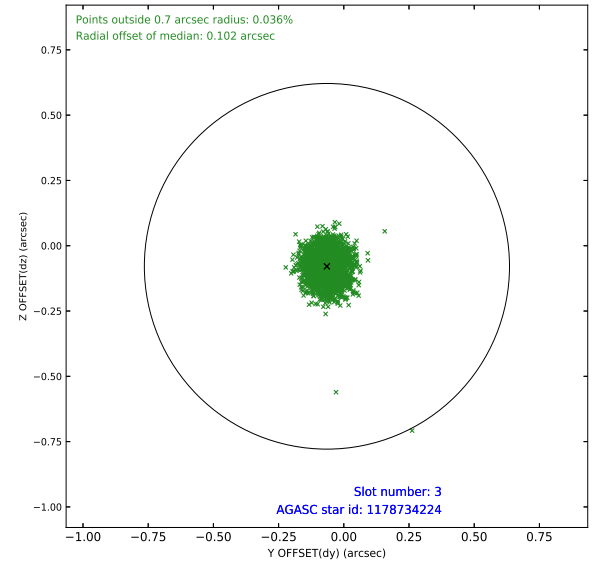
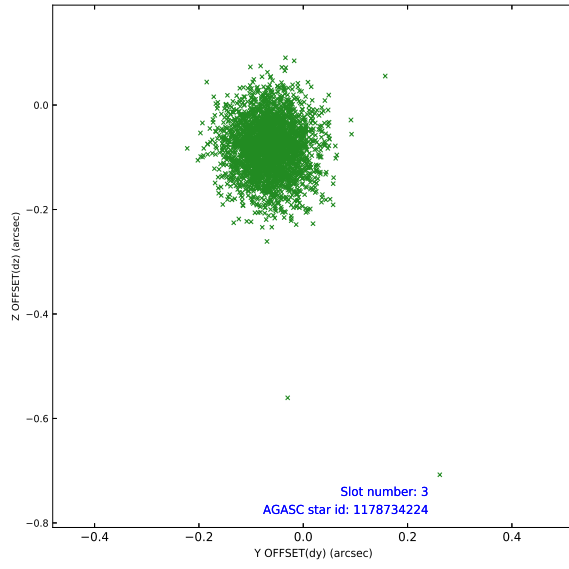


Slot Statistics

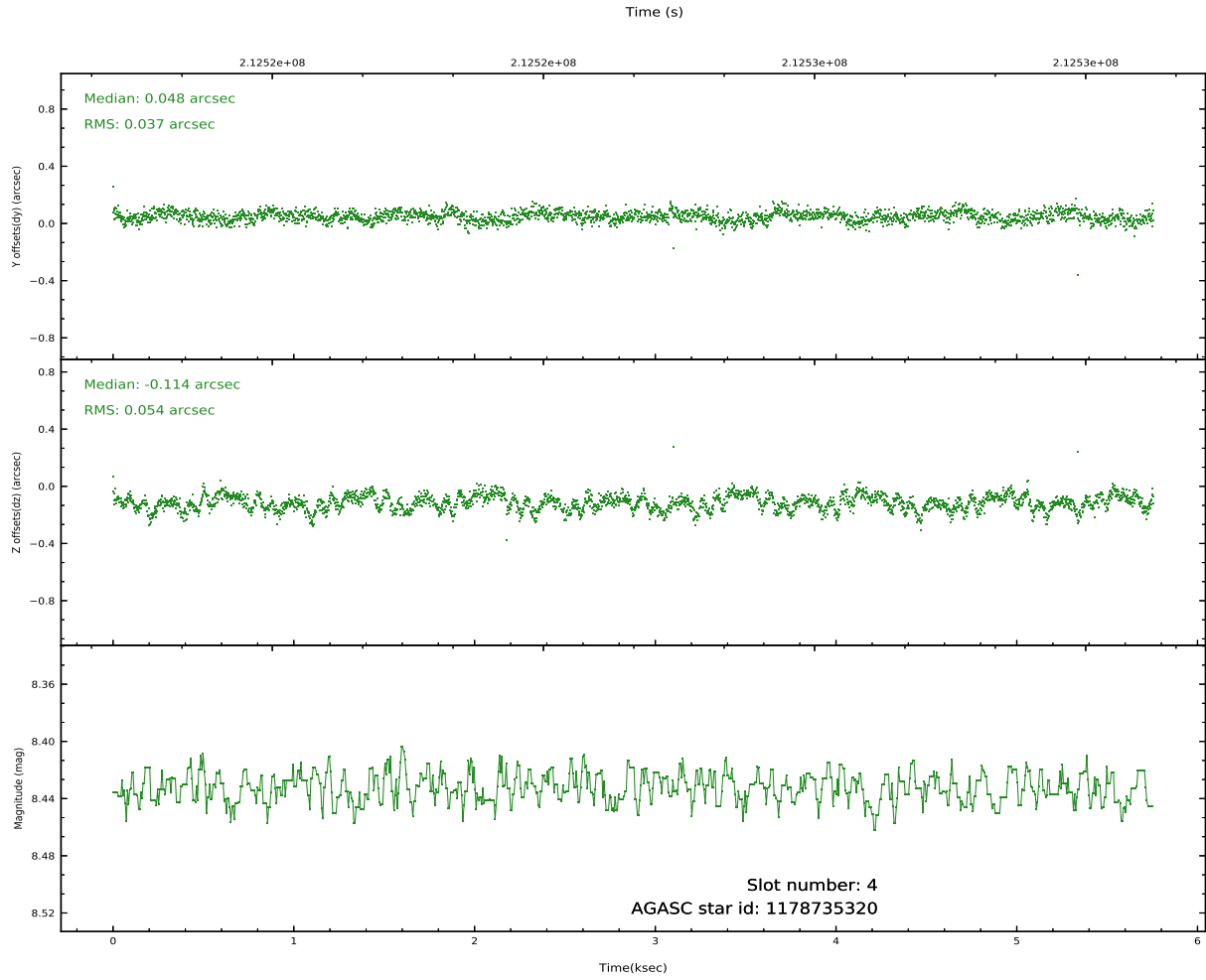
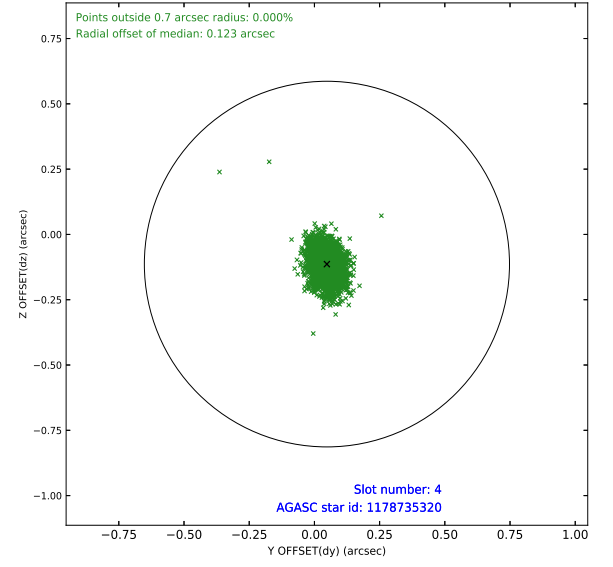
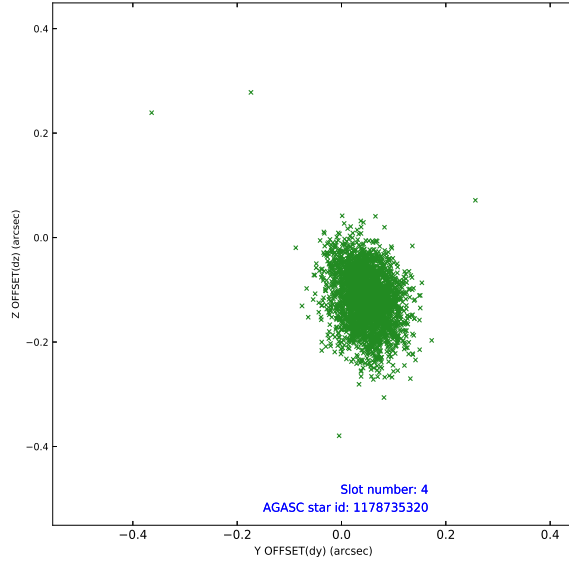
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.23	1404	1.000	-0.027	-0.067	0.011	0.020	0.000000	0.000000	931.65	-834
1	FID		ACIS-I-4	7.18	1404	1.000	0.188	0.082	0.009	0.015	0.000000	0.000000	2152.48	1064
2	FID		ACIS-I-5	7.22	1404	1.000	-0.260	0.055	0.008	0.013	0.000000	0.000000	-1815.25	1063
3	GUIDE	used	1178734224	8.83	2808	1.000	-0.065	-0.079	0.072	0.118	195.220973	-62.585409	294.19	-2223
4	GUIDE	used	1178735320	8.43	2806	1.000	0.048	-0.114	0.068	0.112	195.346776	-62.925070	395.07	-988
5	GUIDE	used	1178736896	8.37	2807	1.000	0.055	0.131	0.053	0.087	194.755483	-63.640622	1949.51	1278
6	GUIDE	used	1178741464	8.67	2809	1.000	0.026	0.063	0.070	0.111	196.205525	-63.491457	-434.32	1338
7	GUIDE	used	1178878144	9.22	2804	1.000	-0.063	0.002	0.074	0.122	197.169234	-63.211551	-2204.11	784

## 2.4 Star Slots

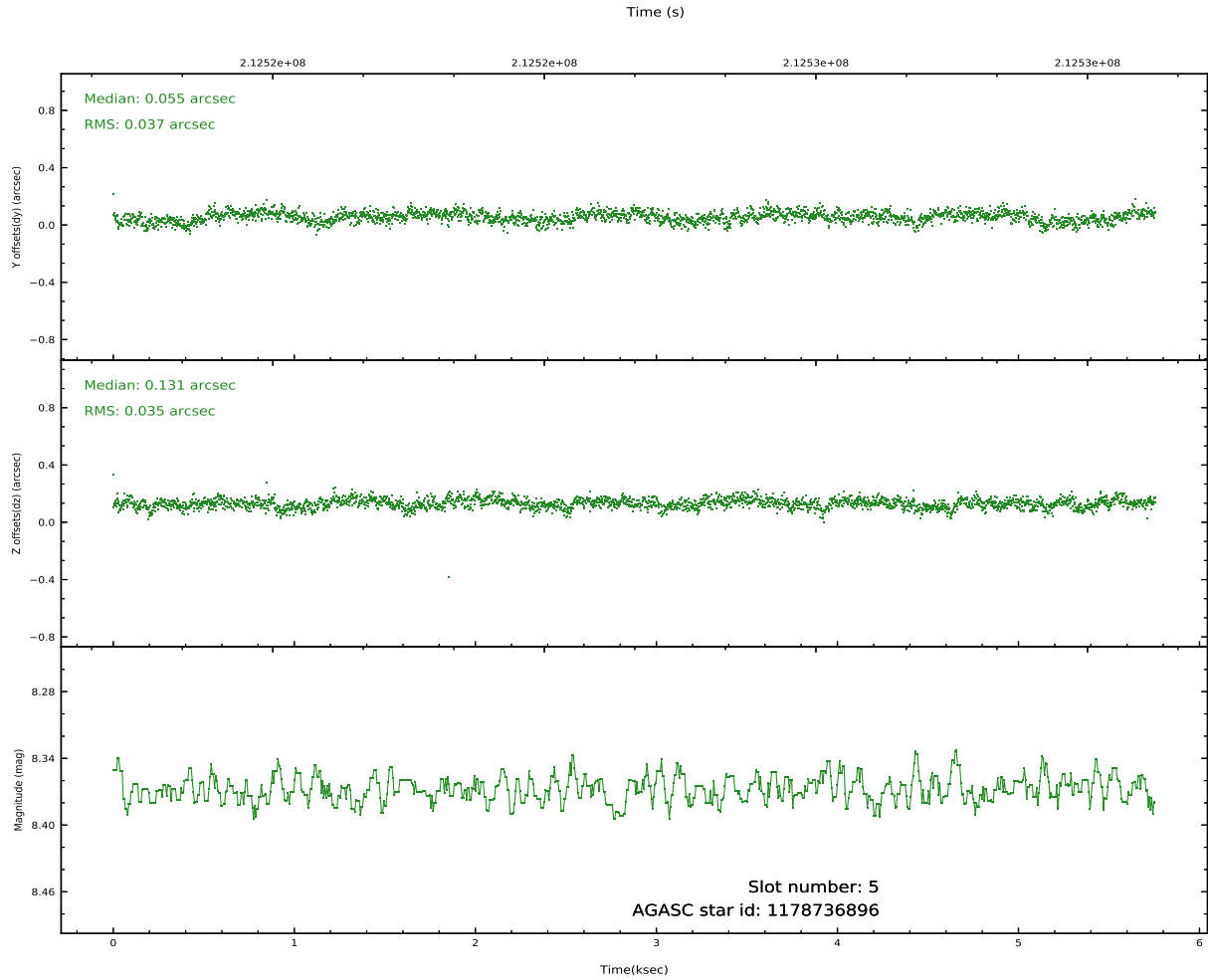
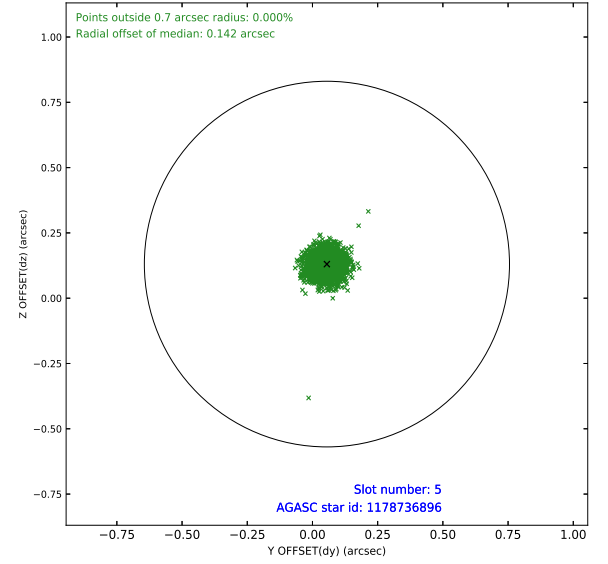
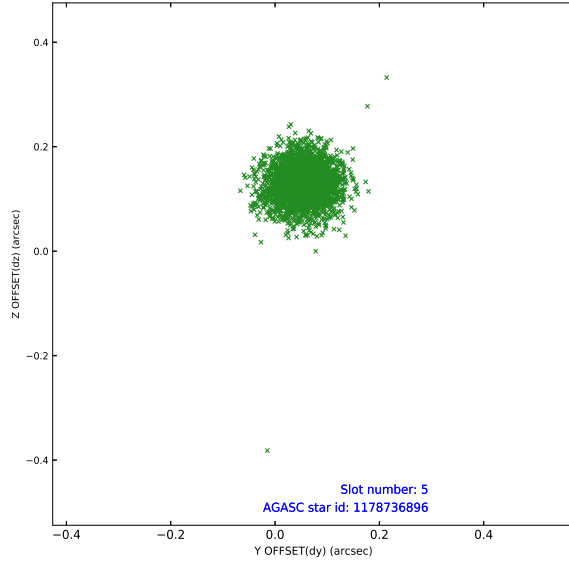
### 2.4.1 Slot 3



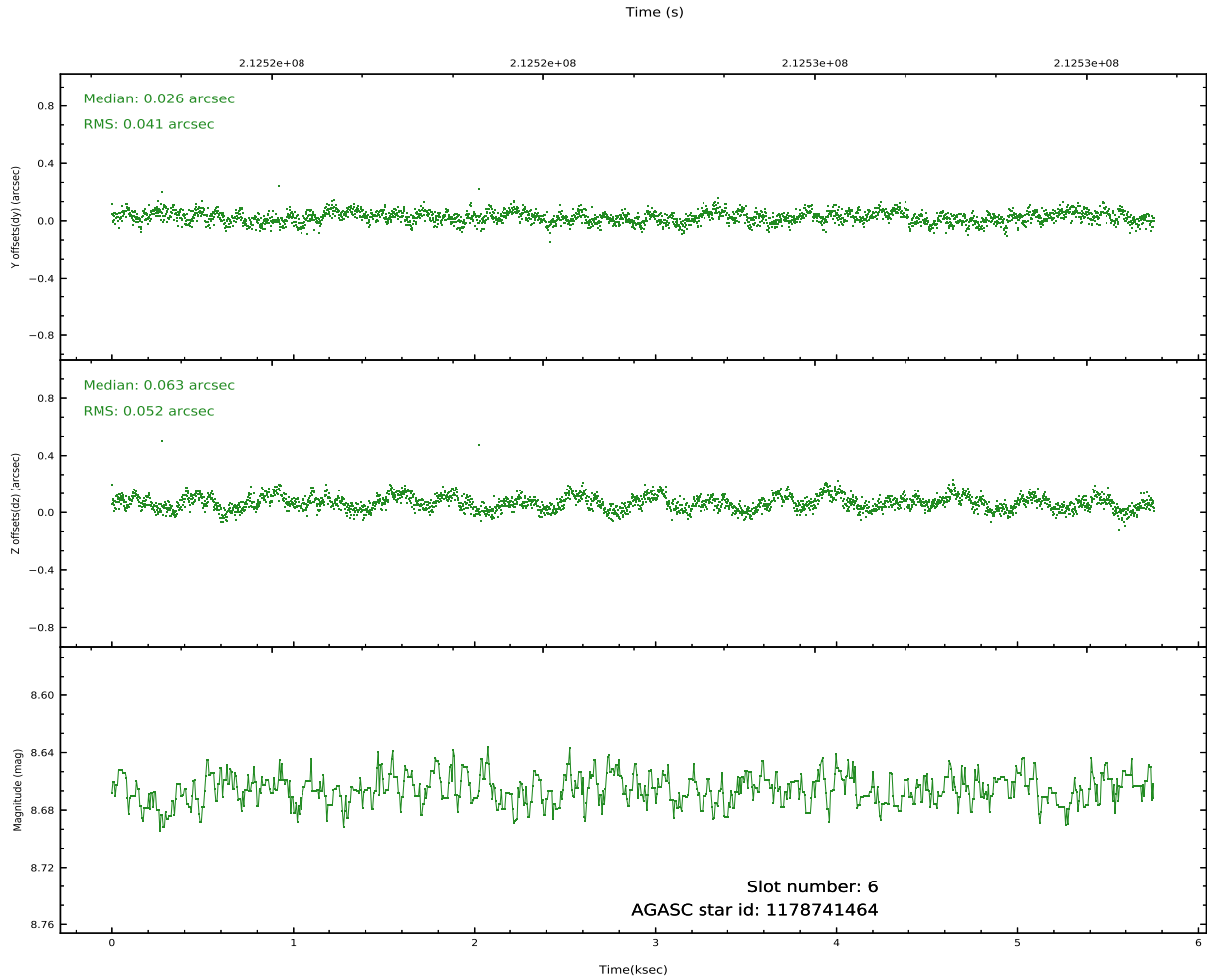
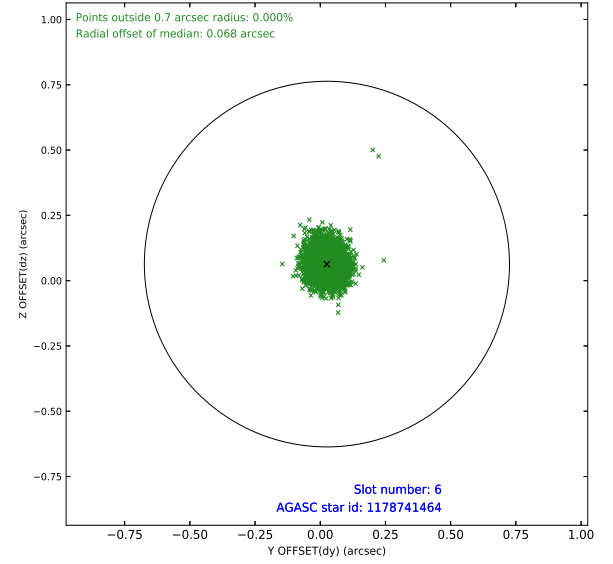
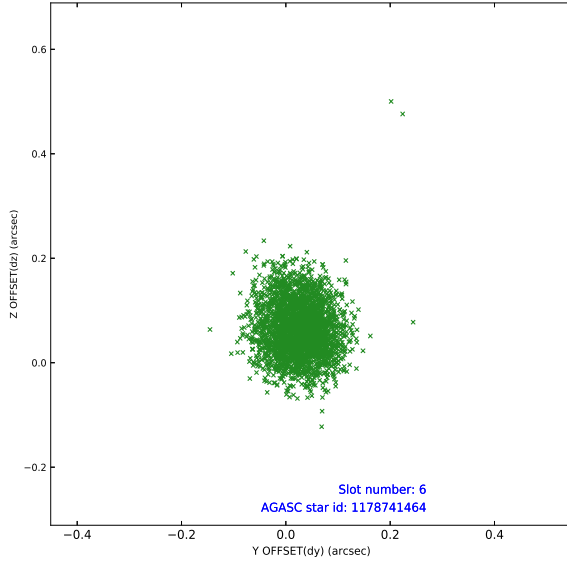
## 2.4.2 Slot 4



### 2.4.3 Slot 5

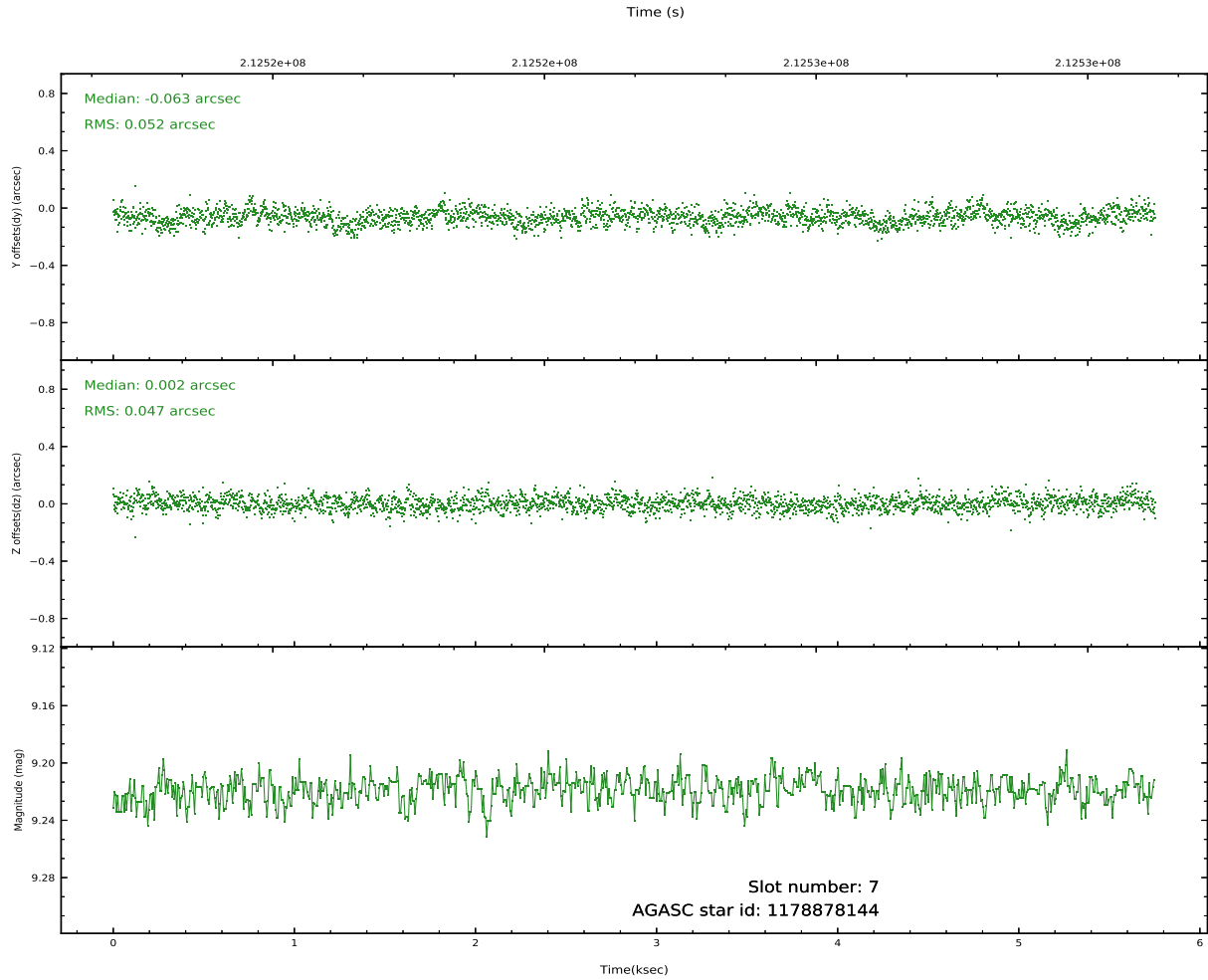
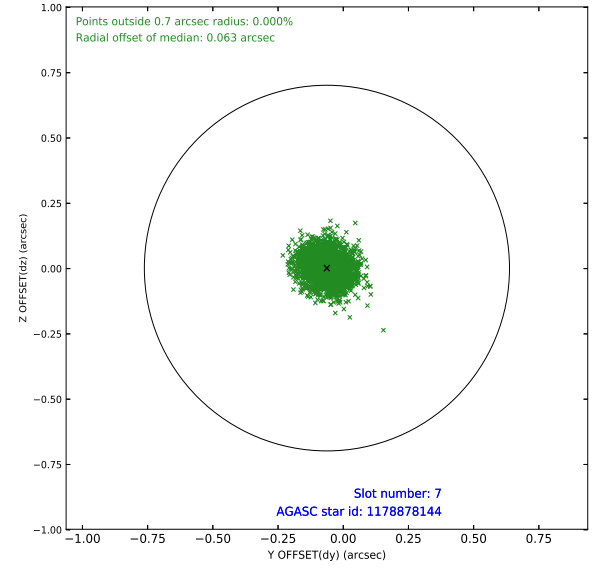
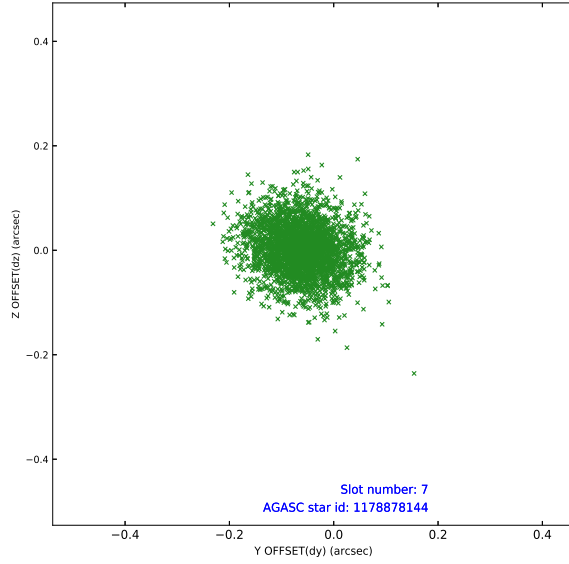


## 2.4.4 Slot 6



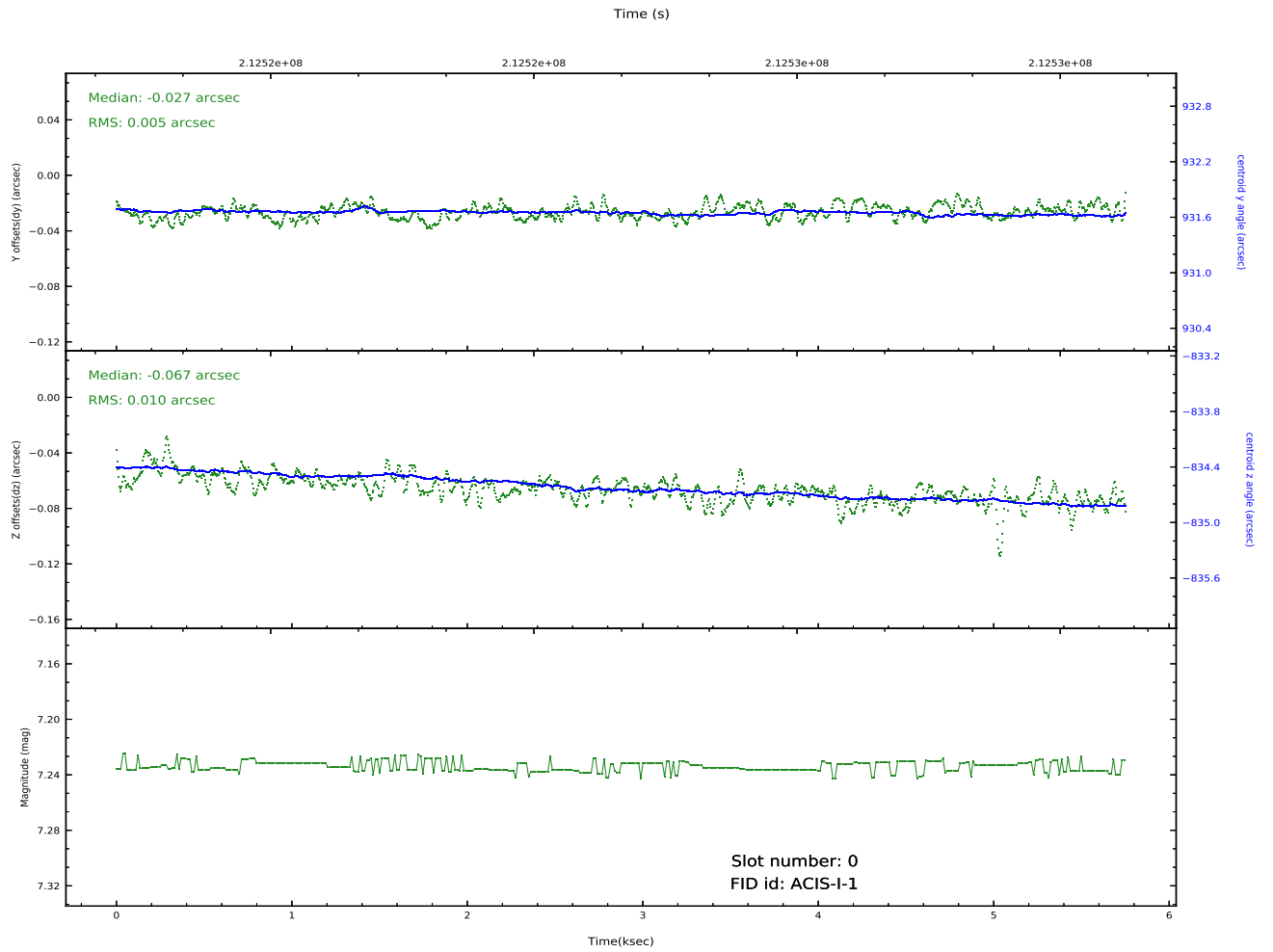
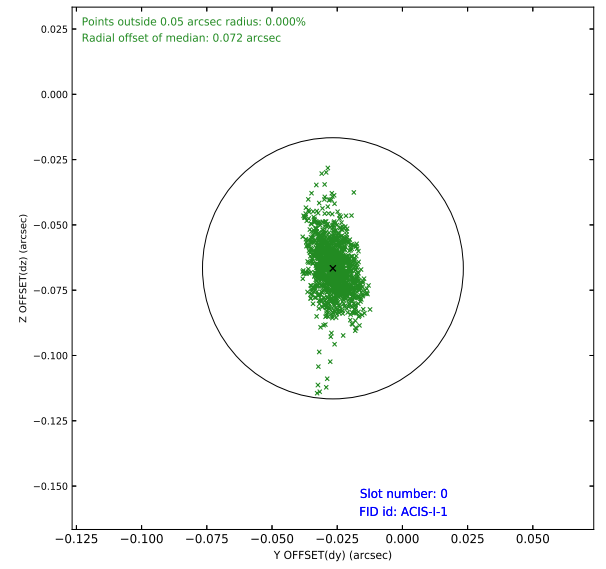
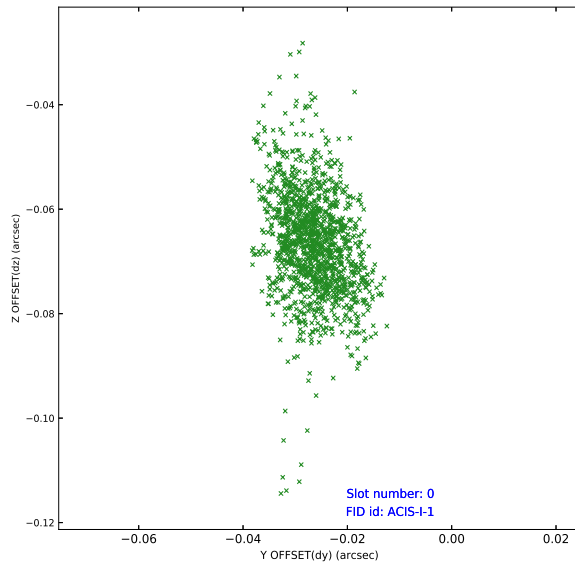


## 2.4.5 Slot 7

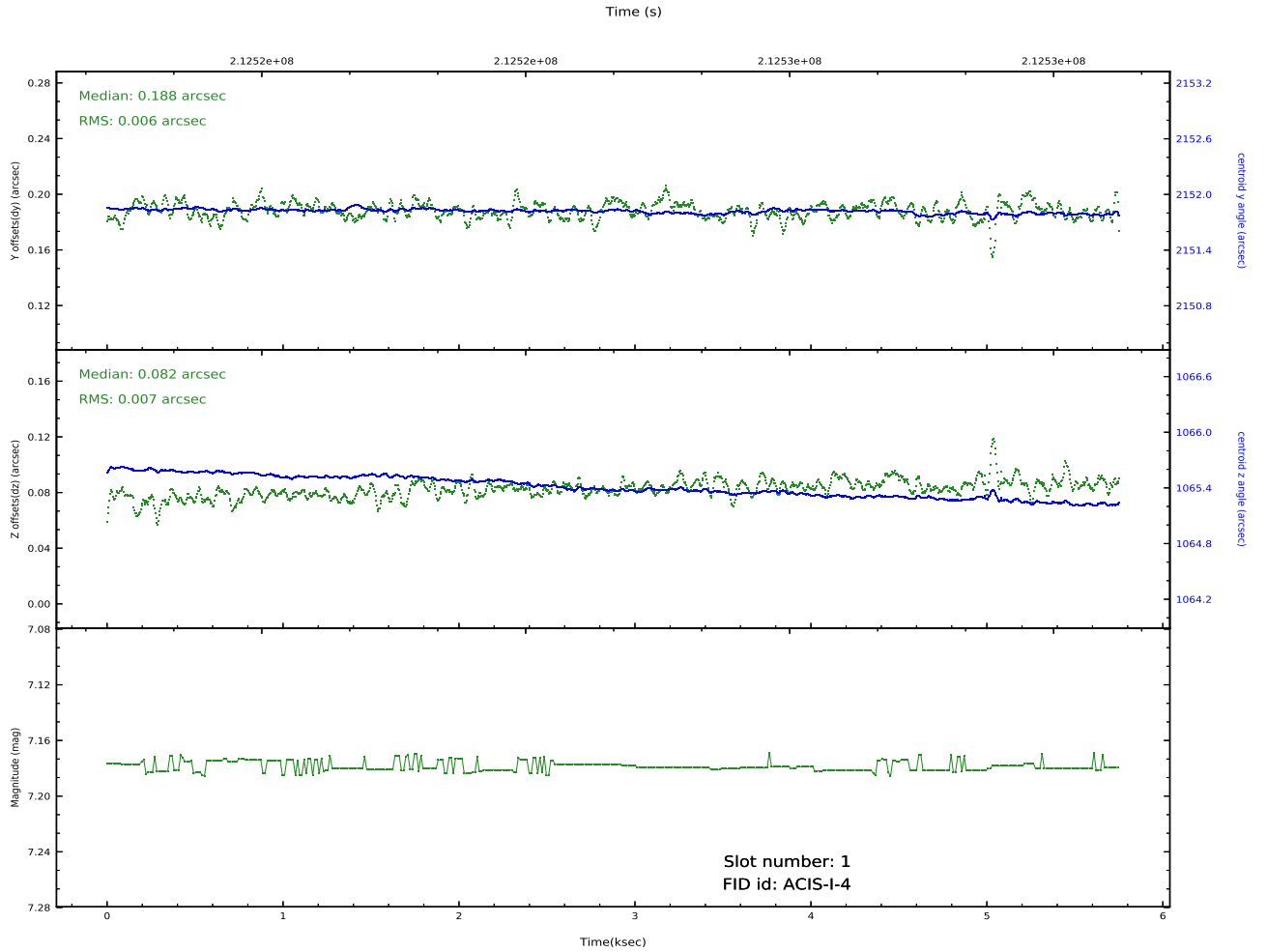
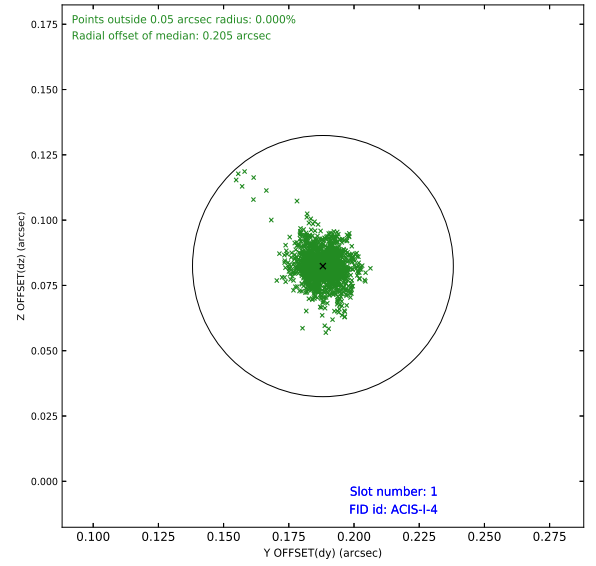
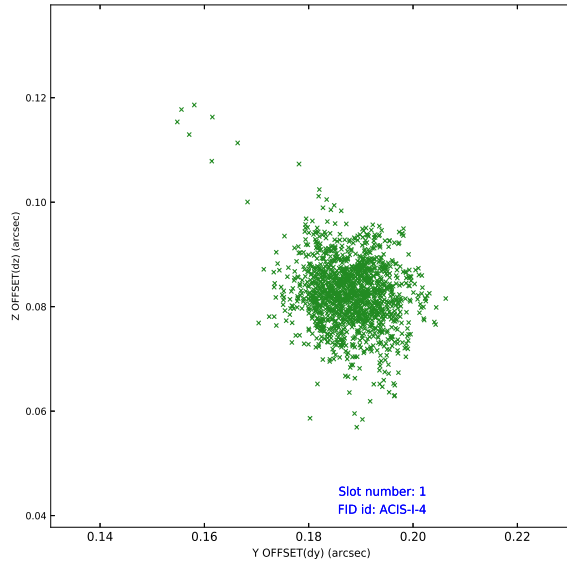


## 2.5 FID Slots

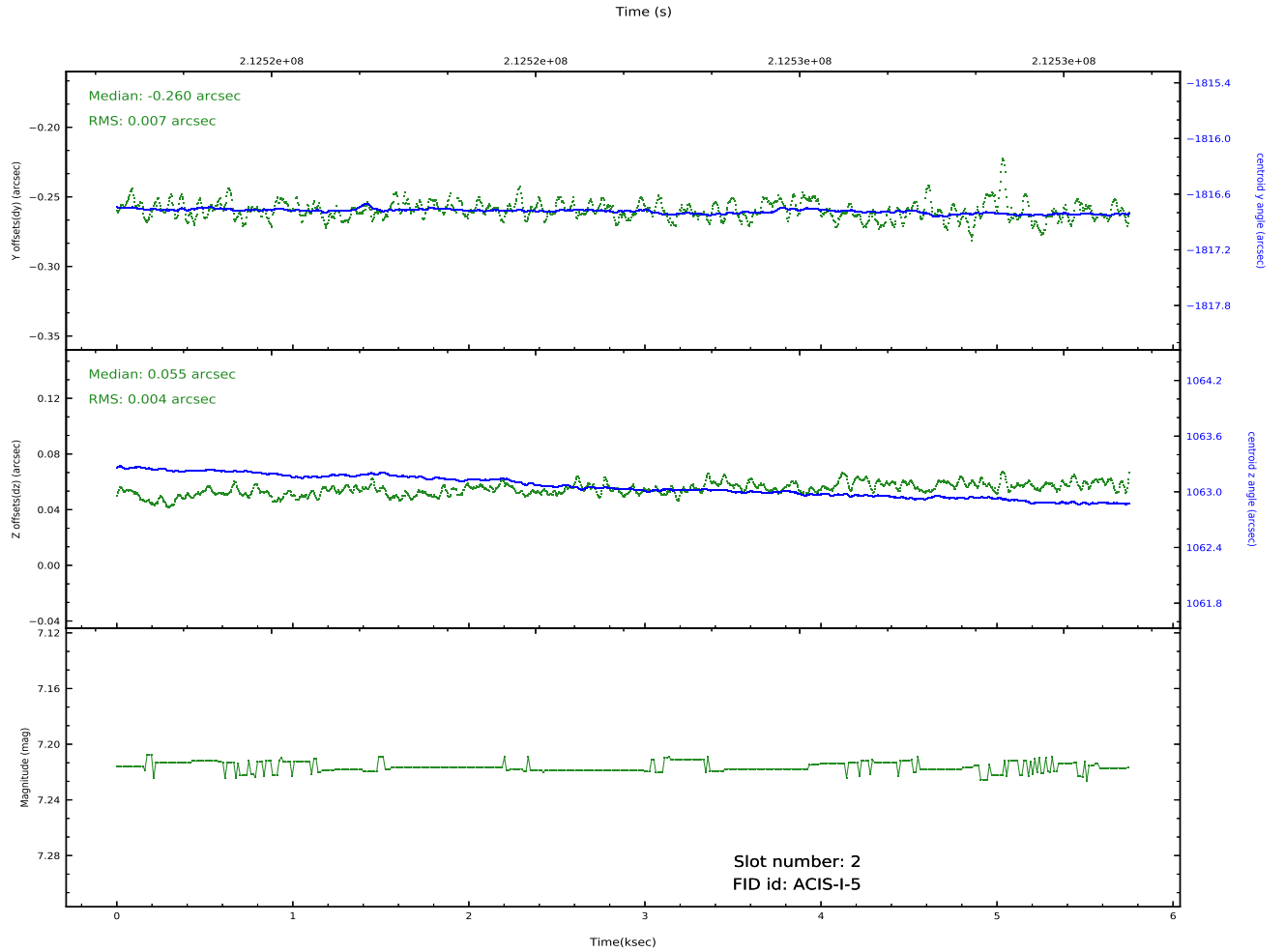
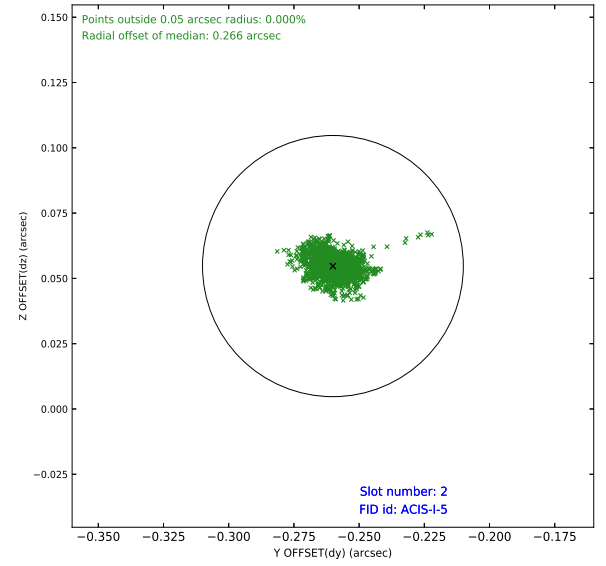
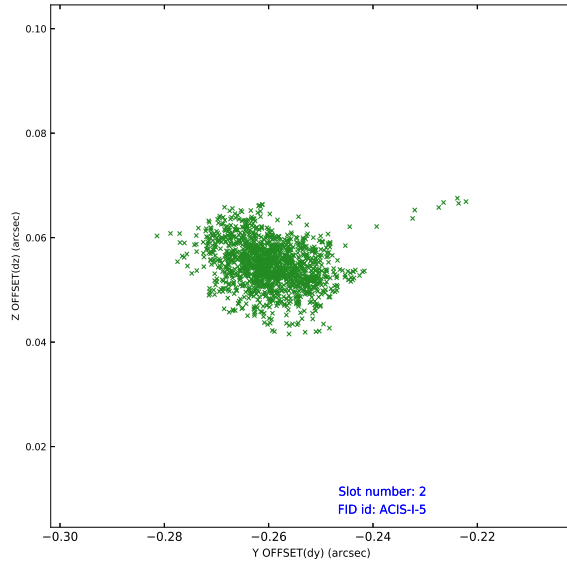
### 2.5.1 Slot 0



## 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)	2020.10.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.707

### A.2 Comments