

# V&V Reference Report

## L2 ASCDS Version : 10.9.1

Observation 5473 - L2 Version 4  
Chandra X-Ray Center

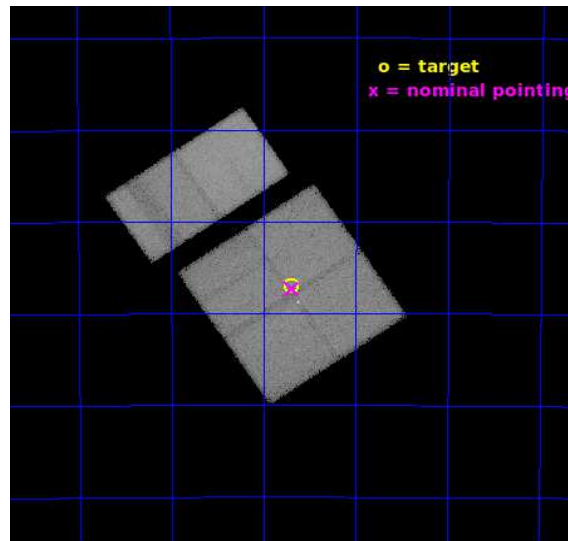
L2 Processing Date : Oct 8 2020

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# 1 Front

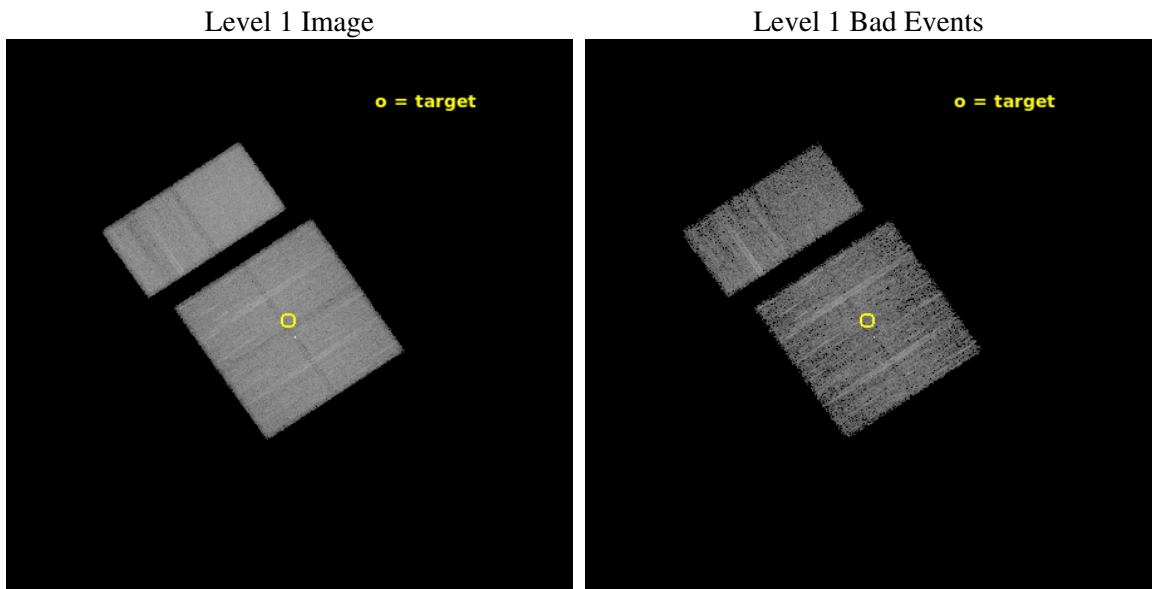
seq_num	400403	Sequence number
obs_id	5473	Observation id
title	Localization of INTEGRAL-Selected Sources in the Norma Region	Prop
observer	John Tomsick	Principal investigator
object	IGR J16167-4957	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	244.175	Observer's specified target RA [deg]
dec_targ	-49.95	Observer's specified target Dec [deg]
ra_nom	244.17325239745	Nominal RA [deg]
dec_nom	-49.955175844552	Nominal Dec [deg]
roll_nom	325.84513475998	Nominal Roll [deg]
revision	4	Processing version of data
ontime	5043.1999812126	Sum of GTIs [s]
livetime	4979.3399464	Livetime [s]
ontime0	5043.1999812126	Sum of GTIs [s]
ontime1	5043.1999812126	Sum of GTIs [s]
ontime2	5039.9590109289	Sum of GTIs [s]
ontime3	5043.1999812126	Sum of GTIs [s]
ontime6	5043.1999812126	Sum of GTIs [s]
ontime7	5043.1999812126	Sum of GTIs [s]
l2events	285021	Number of level 2 events



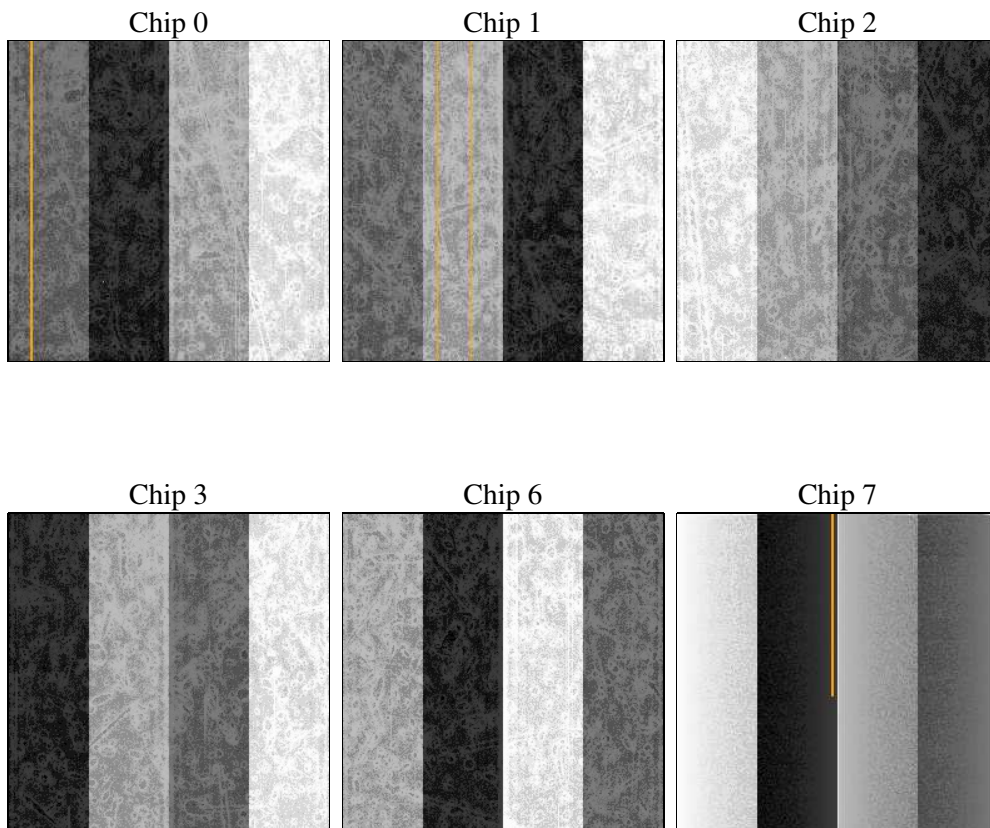
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5039.250000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	5043.1999812126	Sum of GTIs [s]
caldsver	4.9.2	&#160	ontime0	5043.1999812126	Sum of GTIs [s]
date	2020-10-08T19:29:06	Date and time of file creation	ontime1	5043.1999812126	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	5039.9590109289	Sum of GTIs [s]
			ontime3	5043.1999812126	Sum of GTIs [s]
			ontime6	5043.1999812126	Sum of GTIs [s]
			ontime7	5043.1999812126	Sum of GTIs [s]
			l1events	511214	Number of level 1 events

### 2.1.4 Events

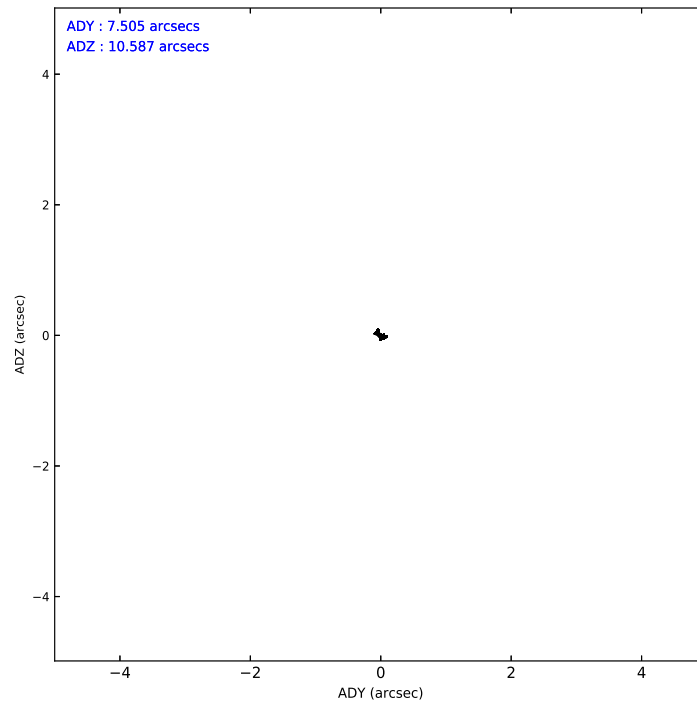
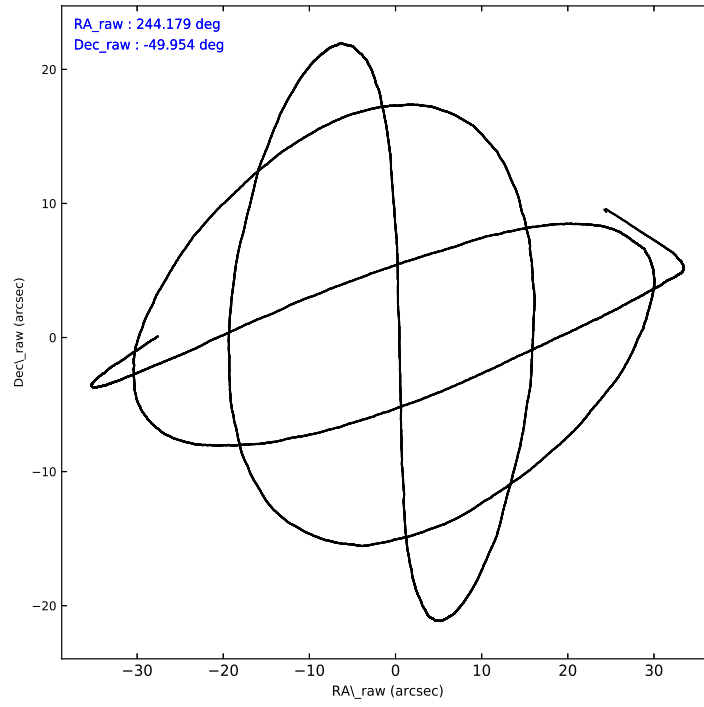
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	78948	81108	81447	80642	84199	104870	grade 0 events	32384	31100	32146	32621	31123	7634
rejected events	32540	33799	36682	34373	37823	34316		41%	38%	39%	40%	36%	7%
rejected %	41%	41%	45%	42%	44%	32%	grade 1 events	229	201	221	195	167	77
								0%	0%	0%	0%	0%	0%
							grade 2 events	5817	7457	4922	5434	6413	11691
								7%	9%	6%	6%	7%	11%
							grade 3 events	2168	2142	1972	2051	1984	4828
								2%	2%	2%	2%	2%	4%
							grade 4 events	1961	2083	1925	2107	2005	4887
								2%	2%	2%	2%	2%	4%
							grade 5 events	1780	1899	1638	1902	1991	5369
								2%	2%	2%	2%	2%	5%
							grade 6 events	4151	4592	3859	4118	4917	41622
								5%	5%	4%	5%	5%	39%
							grade 7 events	30458	31634	34764	32214	35599	28762
								38%	39%	42%	39%	42%	27%

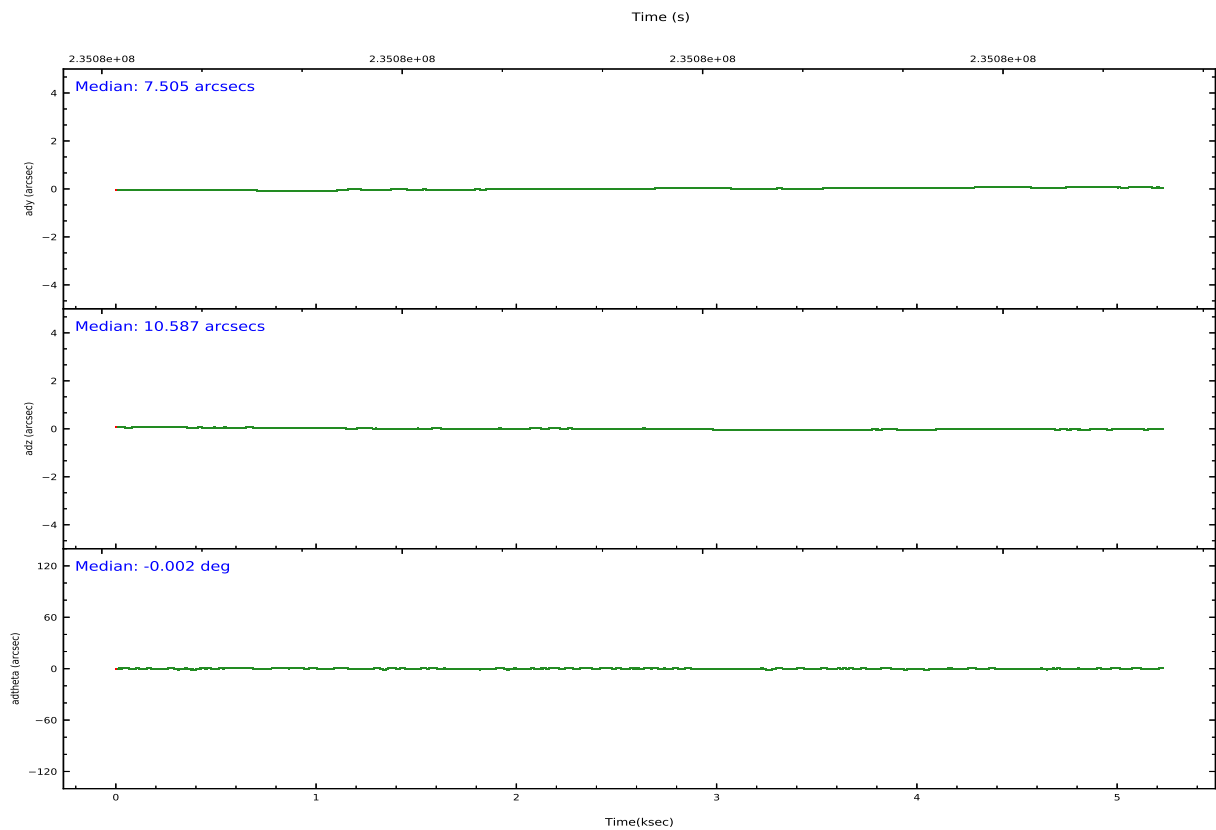
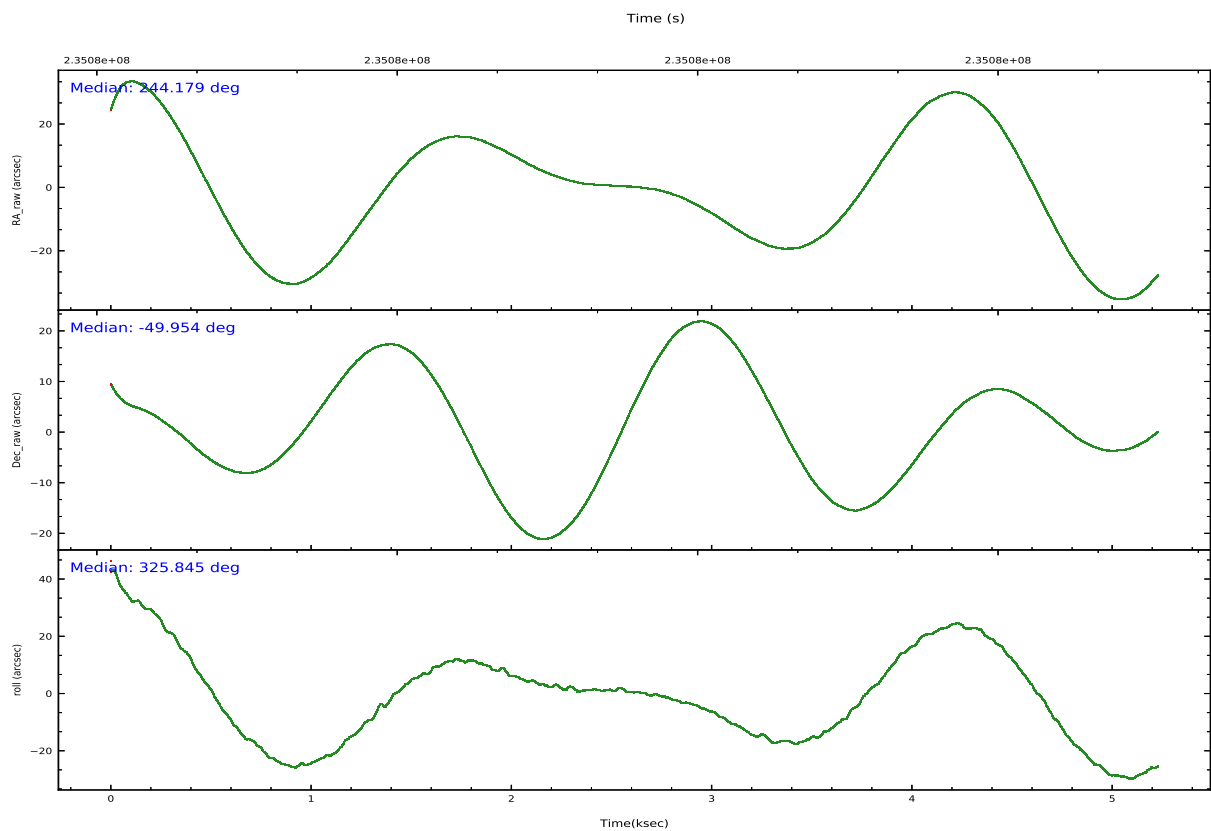


## 2.2 Compared Parameters

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	244.136460	244.17325239745	Subarray requested	NONE	NONE
[deg] Pointing Dec	-49.952019	-49.955175844552	Alternating exposures requested	N	N
[deg] Pointing Roll	325.609668	325.84513475998	[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)	235078260.184000	235077276.5791			
Observation start date	2005-06-13T19:29:56	2005-06-13T19:14:36			
[s] Observation end time (MET)	235083299.184000	235083531.64188			
Observation end date	2005-06-13T20:53:55	2005-06-13T20:58:51			
Read mode	TIMED	TIMED			

## 2.3 Aspect



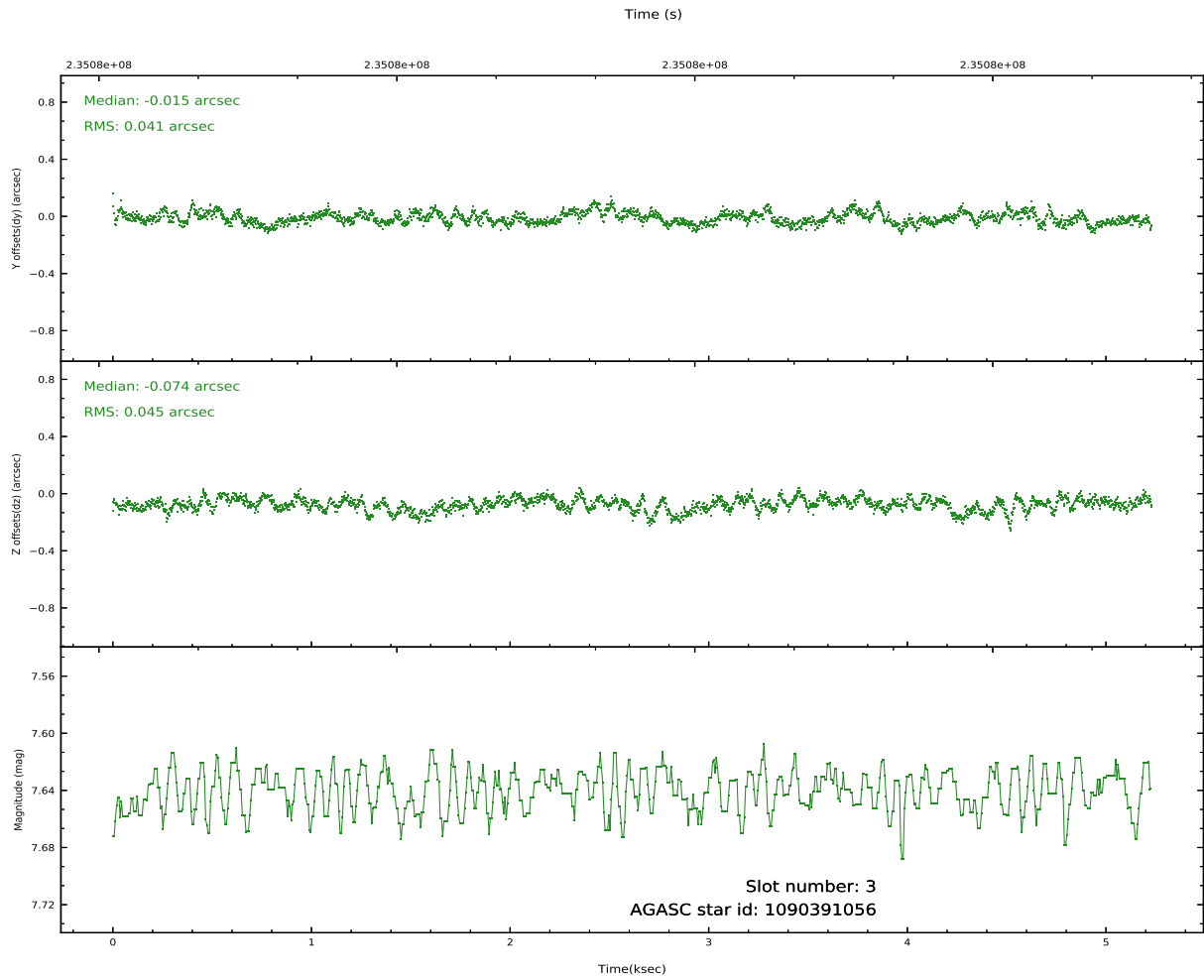
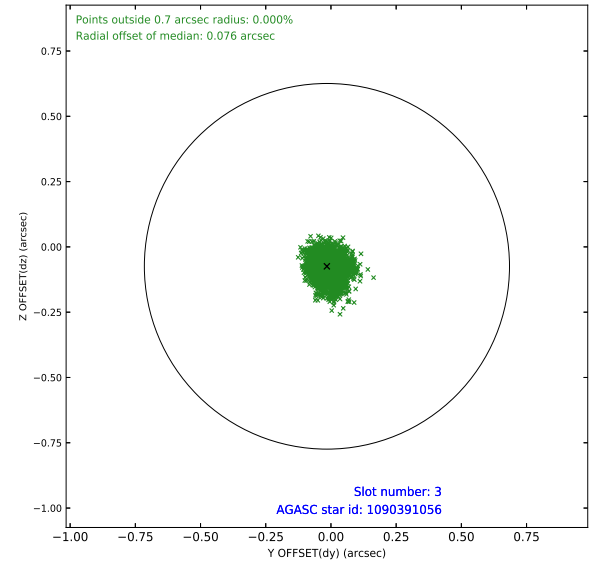
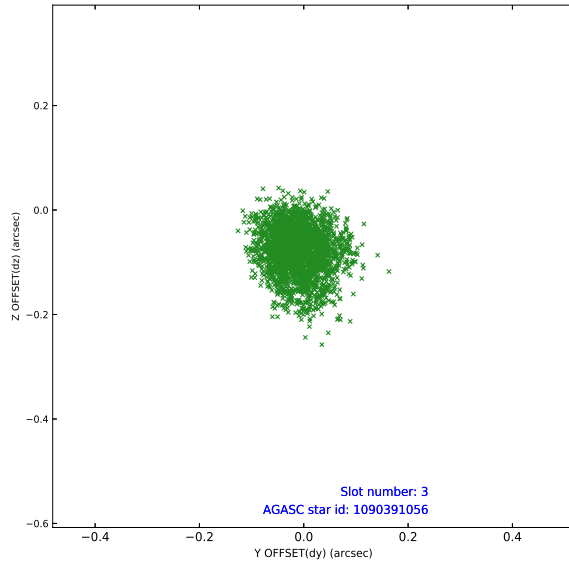


Slot Statistics

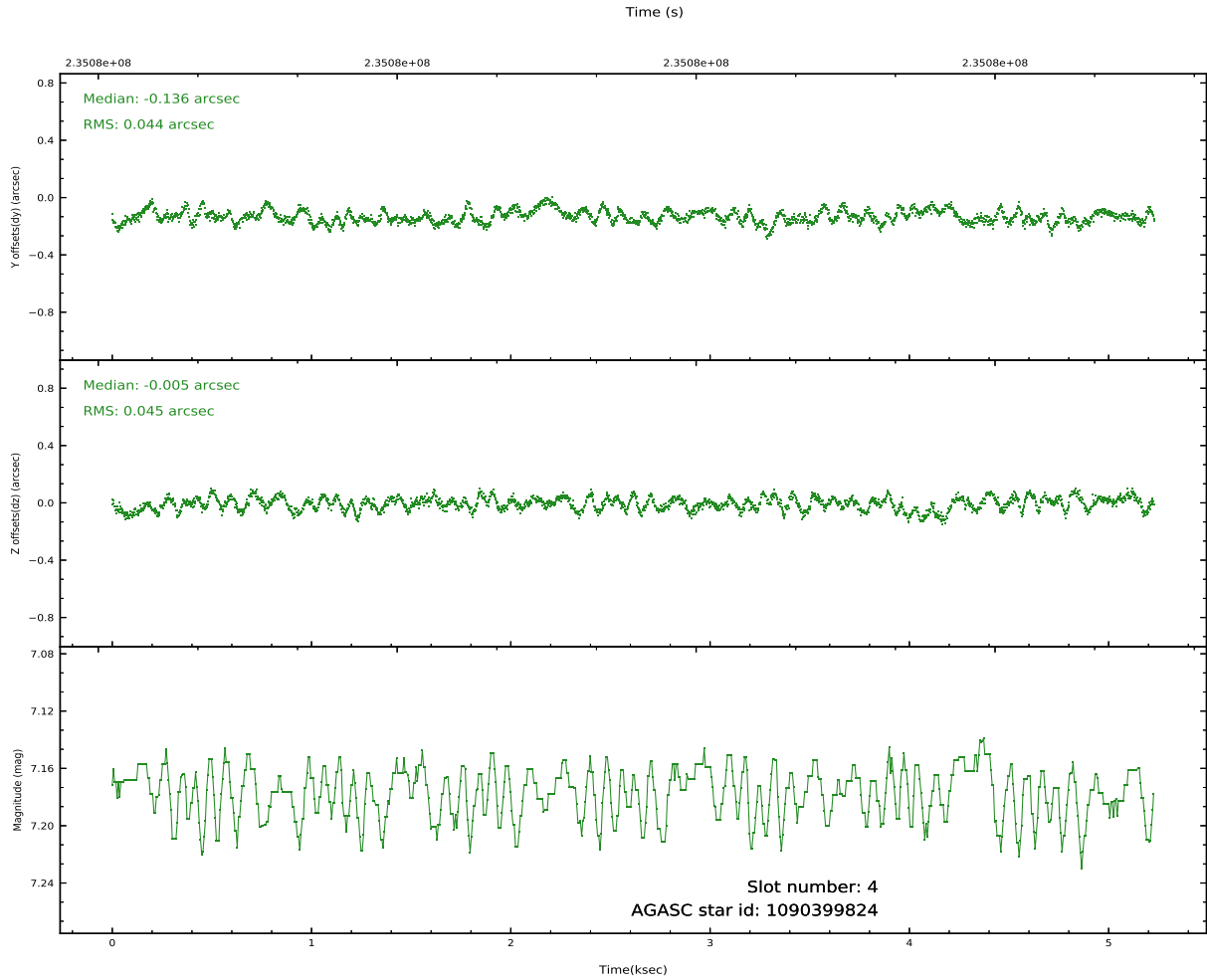
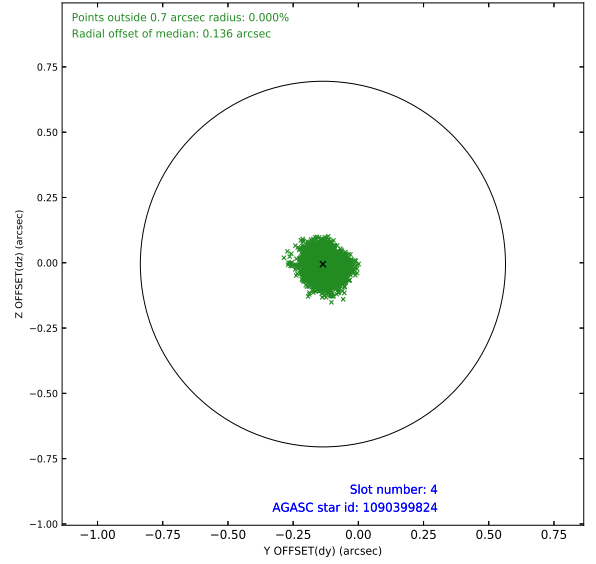
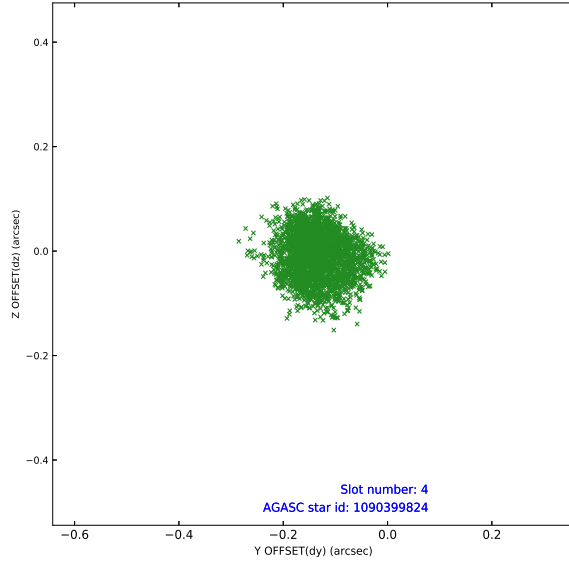
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.24	1276	1.000	0.037	-0.037	0.006	0.011	0.000000	0.000000	932.19	-834
1	FID		ACIS-I-5	7.23	1276	1.000	-0.217	0.033	0.006	0.011	0.000000	0.000000	-1815.52	1062
2	FID		ACIS-I-6	7.25	1276	1.000	0.089	0.075	0.007	0.011	0.000000	0.000000	396.54	1708
3	GUIDE	used	1090391056	7.64	2552	1.000	-0.015	-0.074	0.065	0.105	244.221245	-49.856754	-30.66	394
4	GUIDE	used	1090399824	7.18	2552	1.000	-0.136	-0.005	0.068	0.104	243.299366	-49.884703	-1732.44	-905
5	GUIDE	used	1090525496	8.63	2550	1.000	0.156	-0.032	0.068	0.106	244.777039	-50.152945	1631.58	232
6	GUIDE	used	1090921280	9.10	2550	1.000	-0.002	0.093	0.078	0.127	244.365071	-50.638328	1828.30	-1743
7	GUIDE	used	1090393552	8.06	2551	1.000	-0.006	0.021	0.080	0.129	244.664084	-49.413876	-70.98	2292

## 2.4 Star Slots

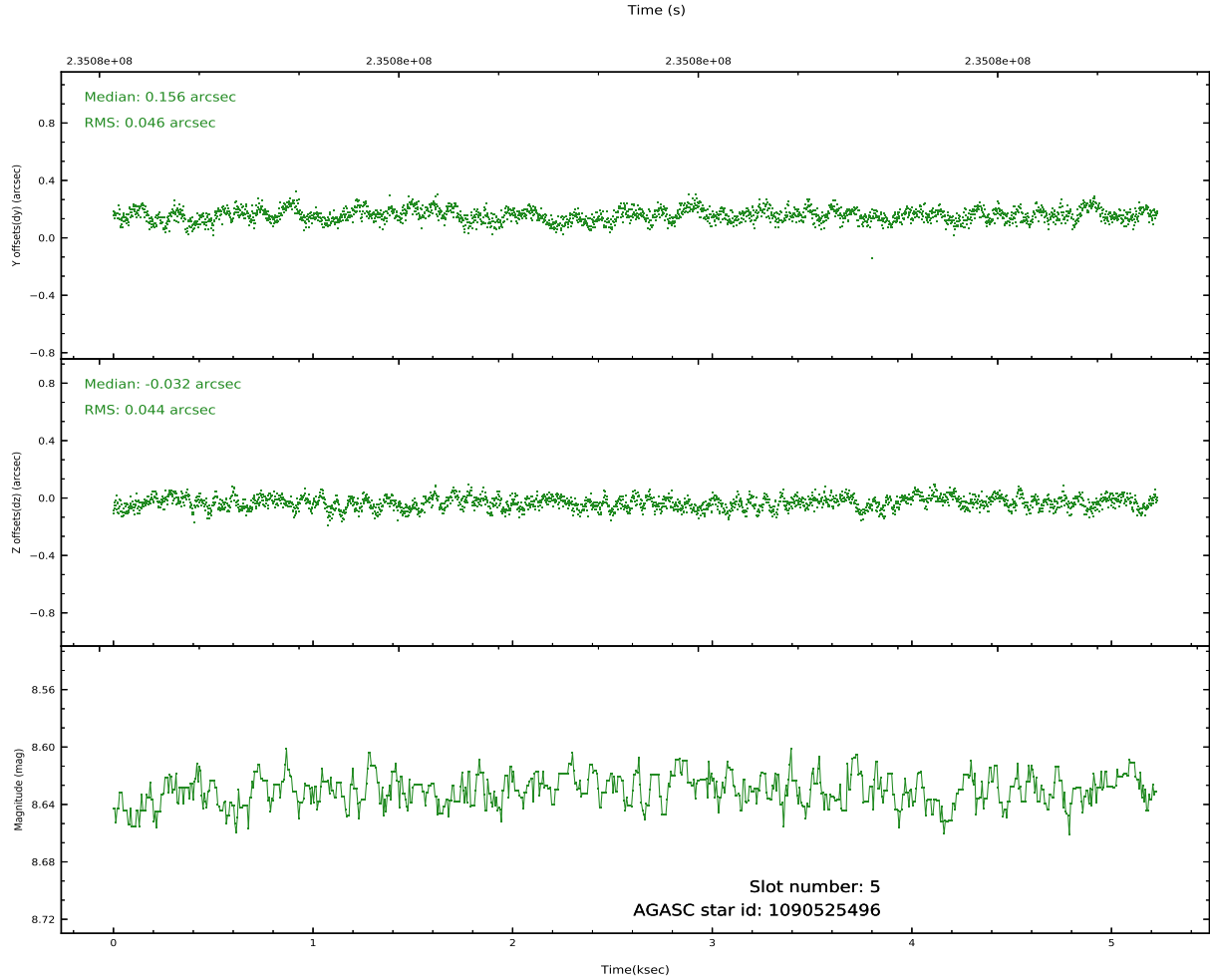
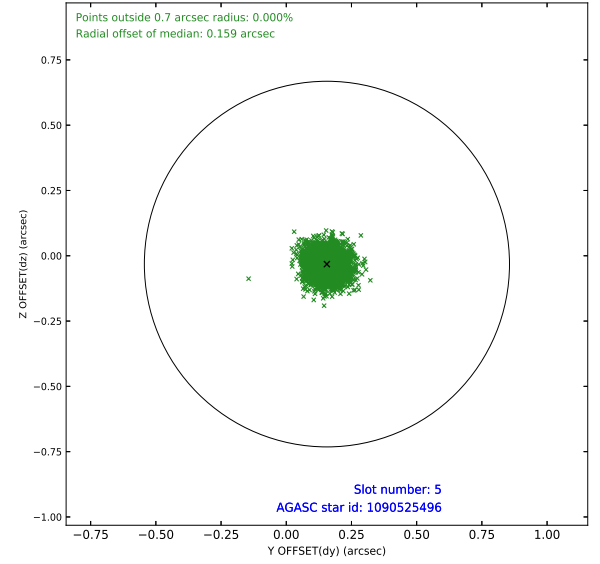
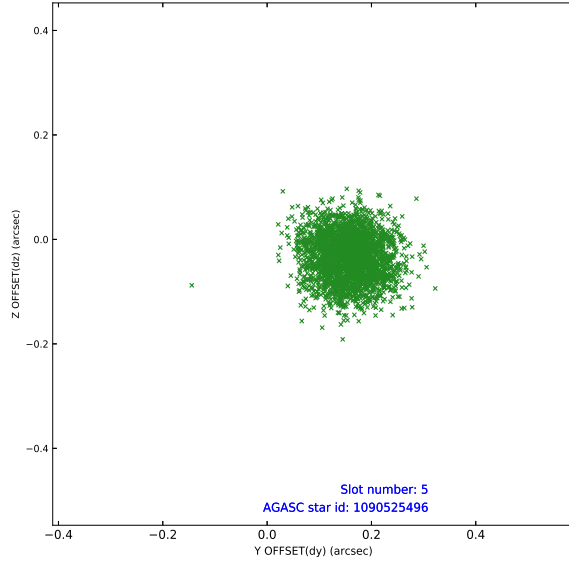
### 2.4.1 Slot 3



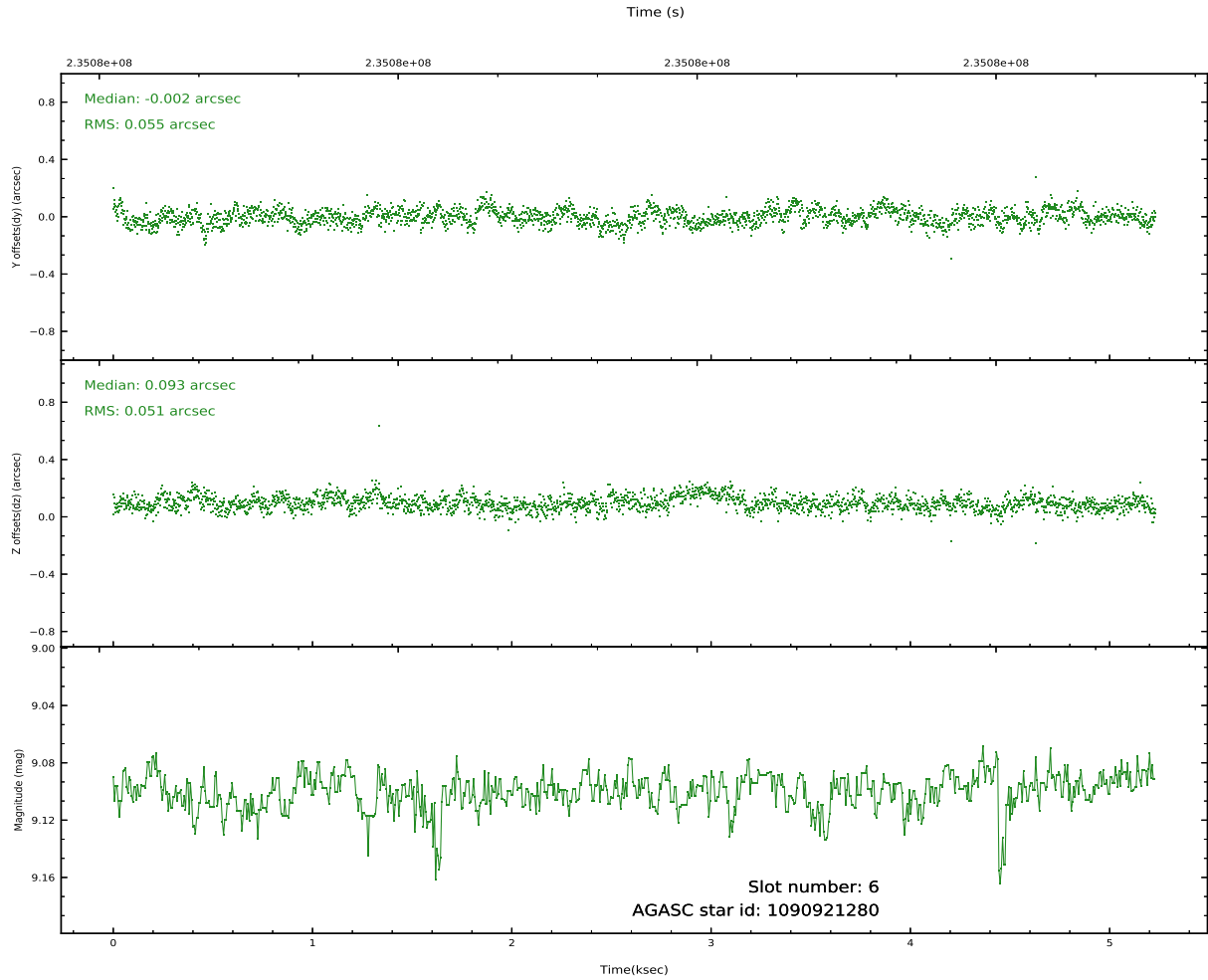
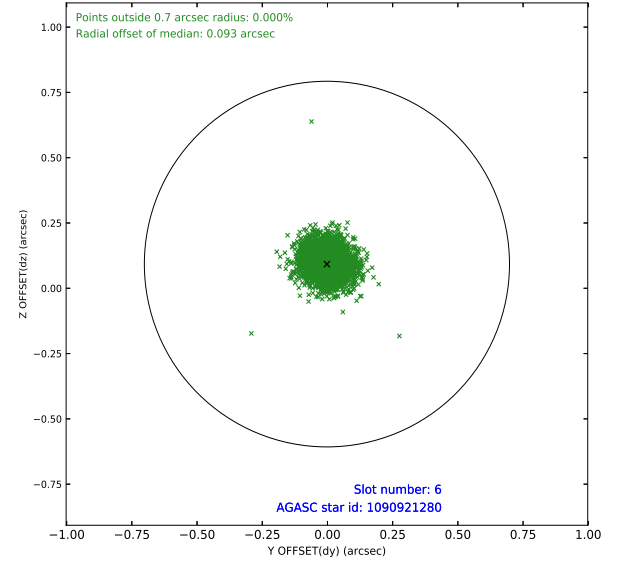
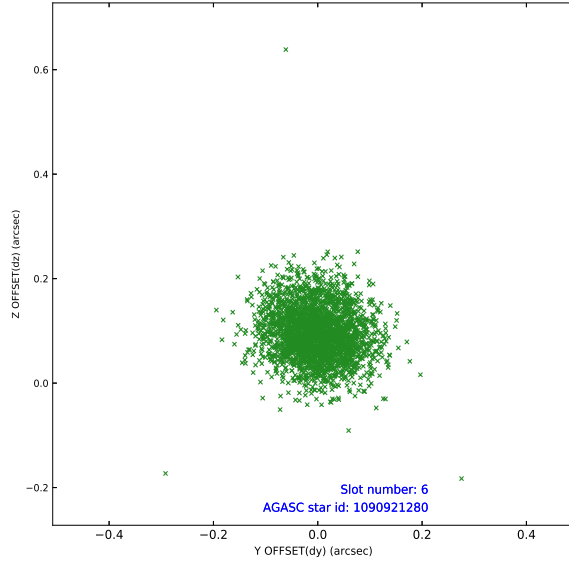
## 2.4.2 Slot 4



### 2.4.3 Slot 5

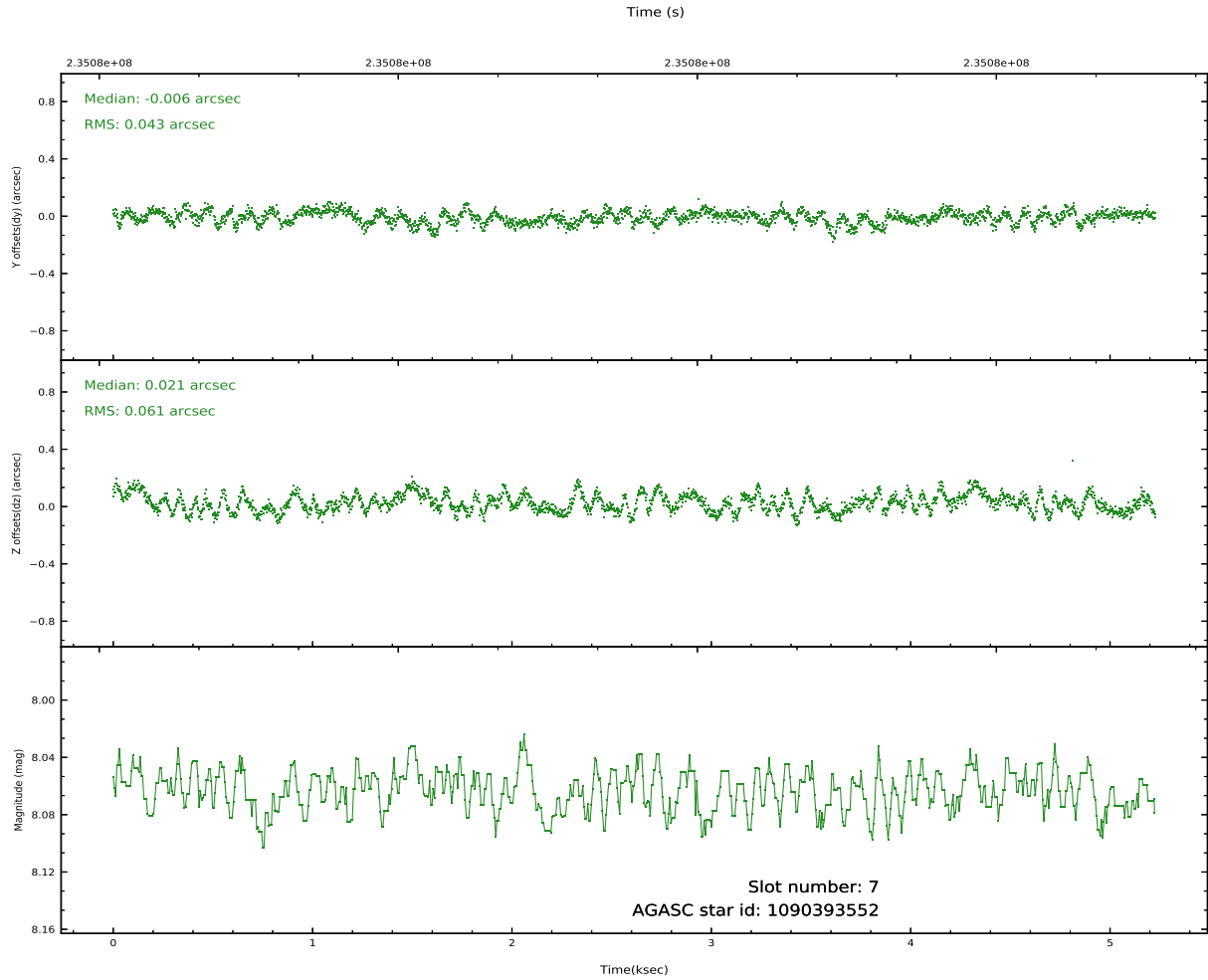
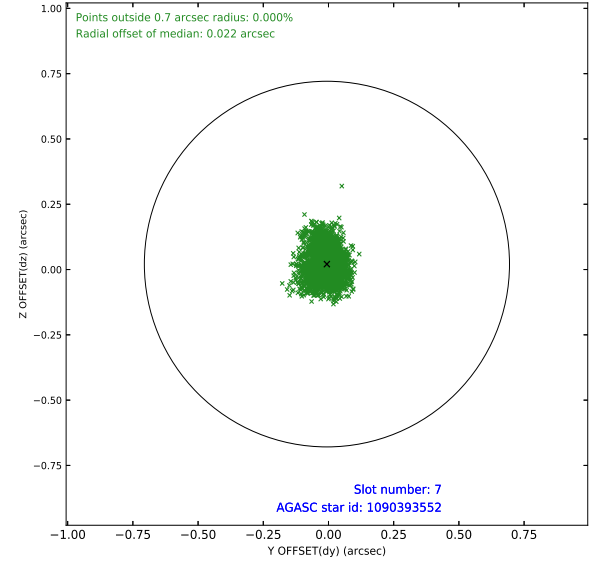
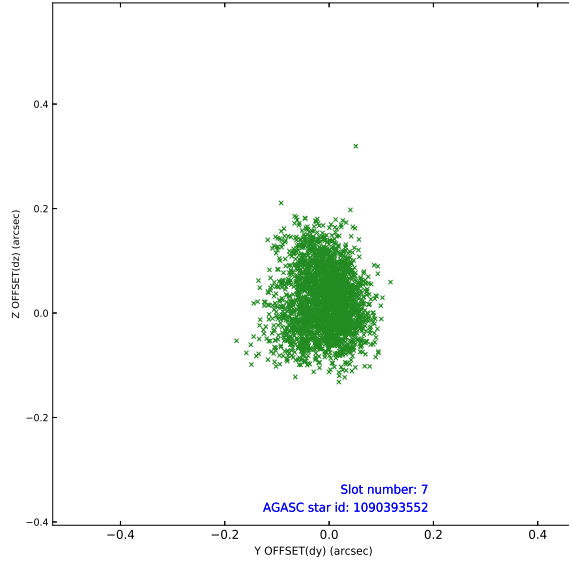


## 2.4.4 Slot 6



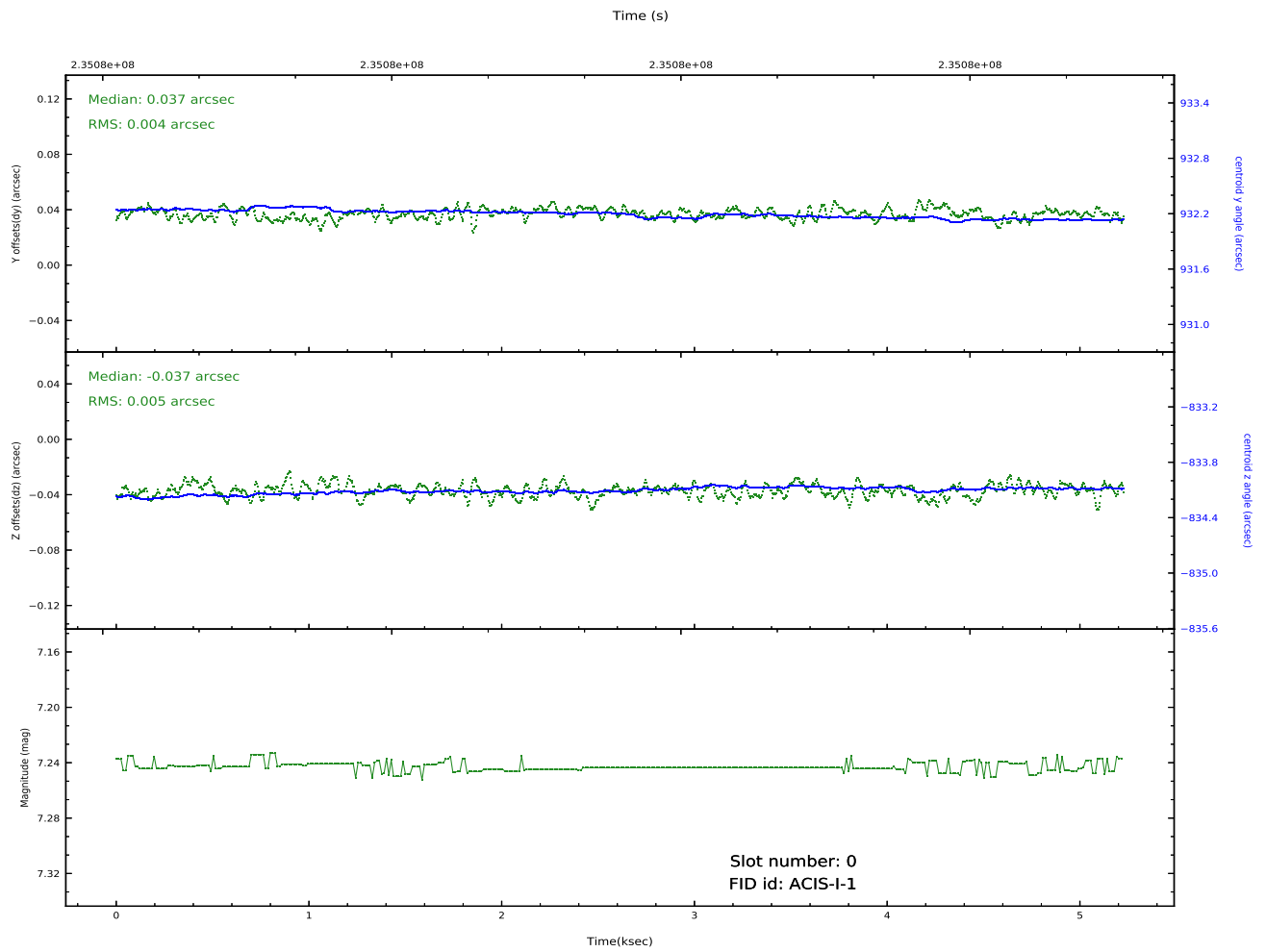
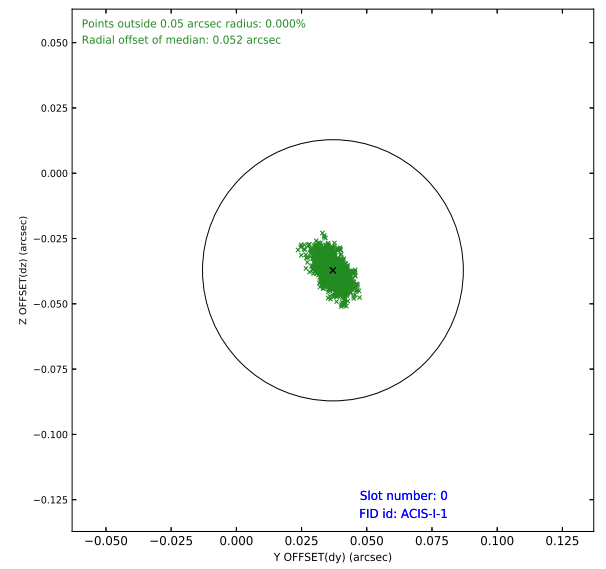
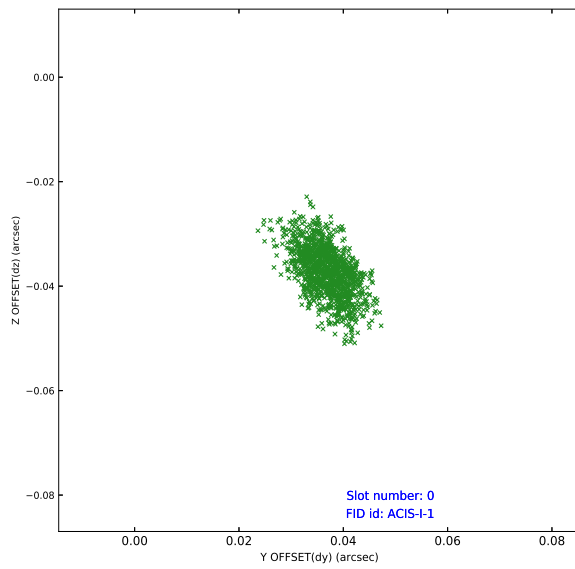


## 2.4.5 Slot 7

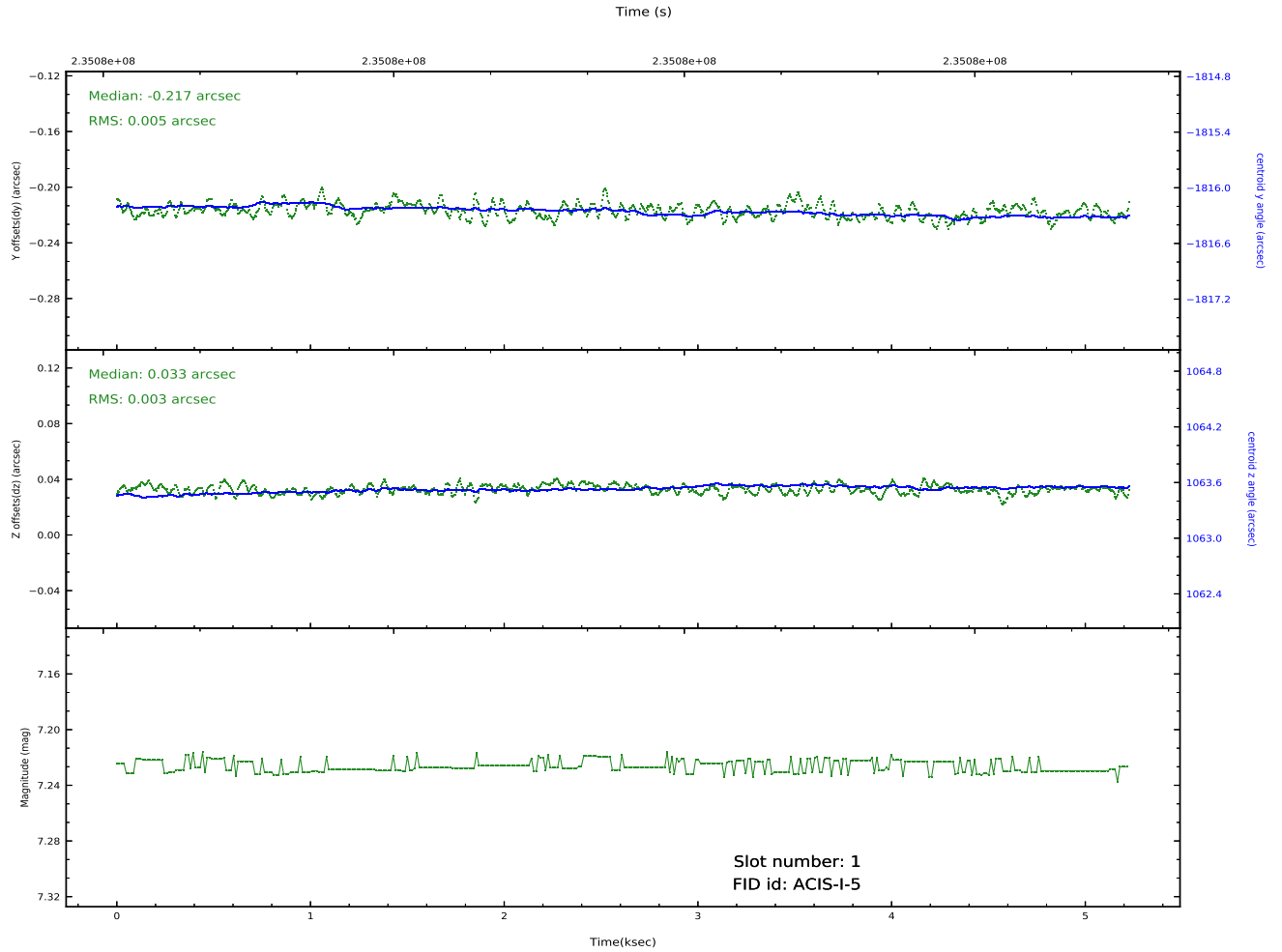
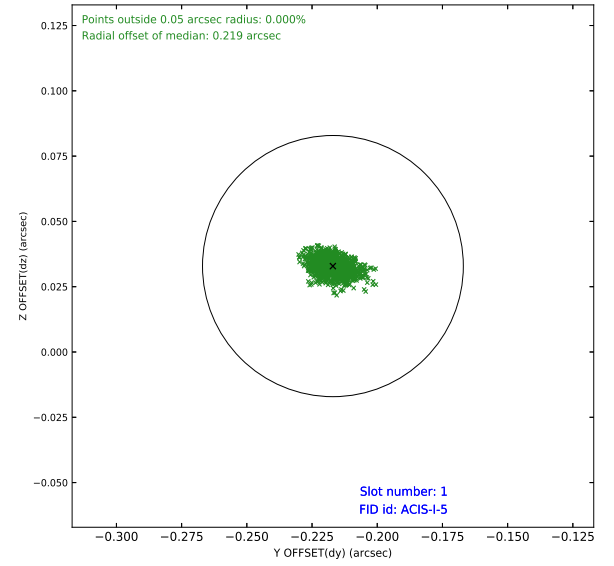
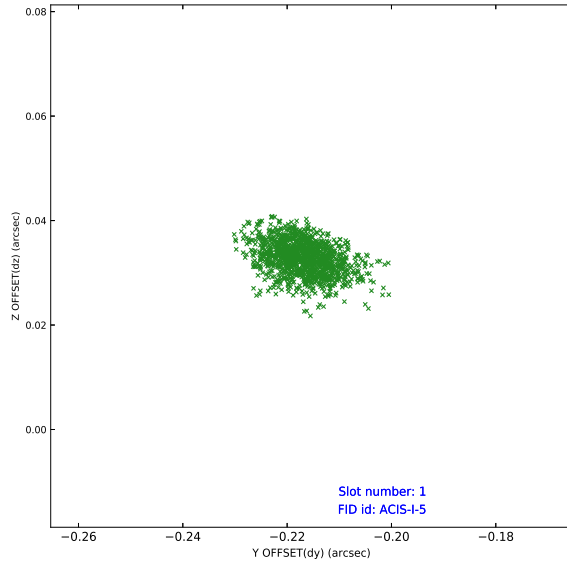


## 2.5 FID Slots

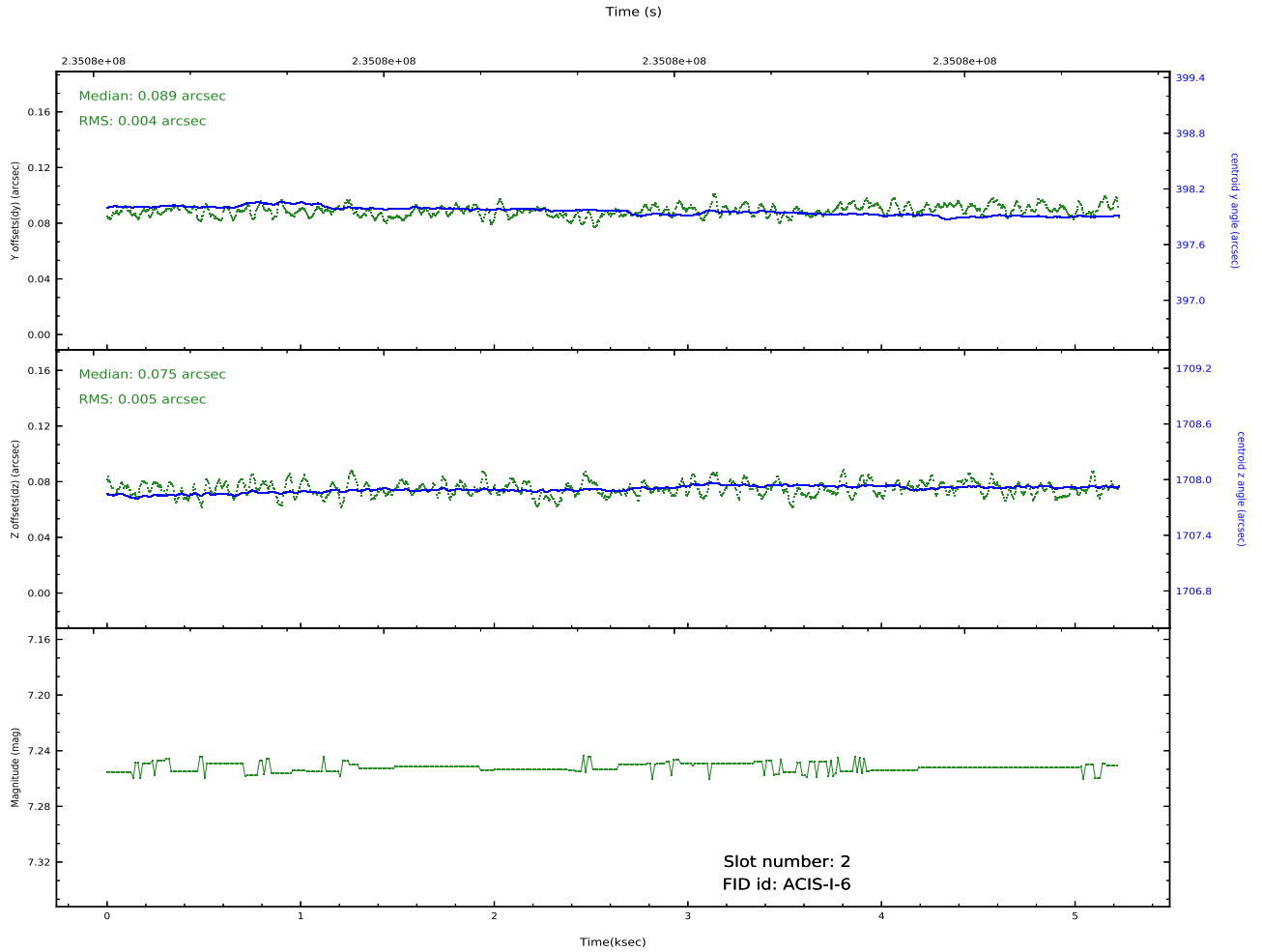
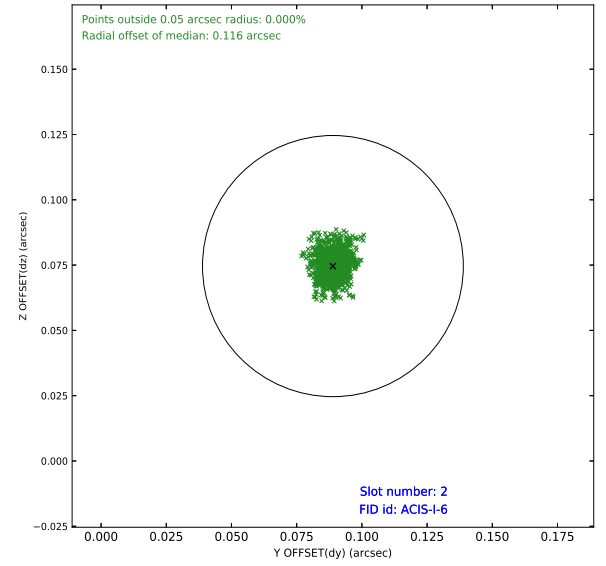
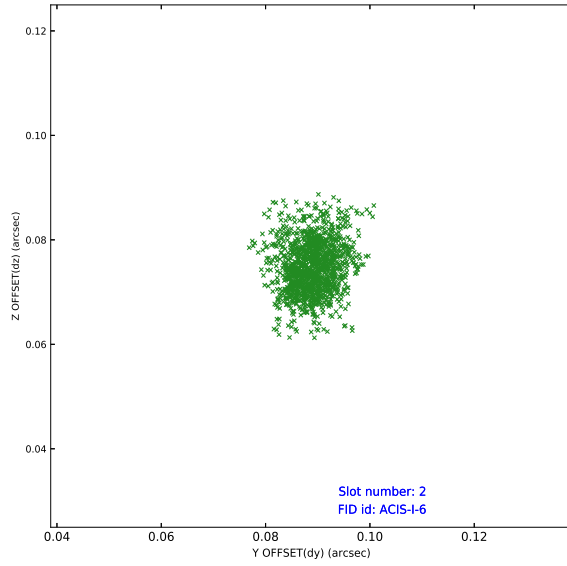
### 2.5.1 Slot 0



## 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)	2020.10.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.043199

### A.2 Comments