

# V&V Reference Report

## L2 ASCDS Version : 10.9.1

Observation 6159 - L2 Version 4  
Chandra X-Ray Center

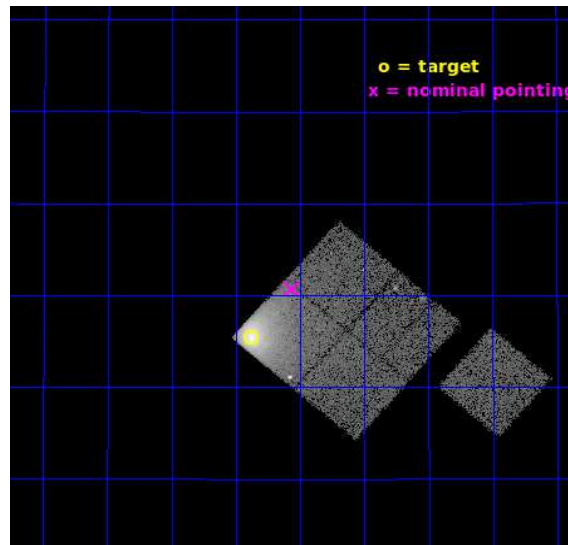
L2 Processing Date : Oct 7 2020

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# 1 Front

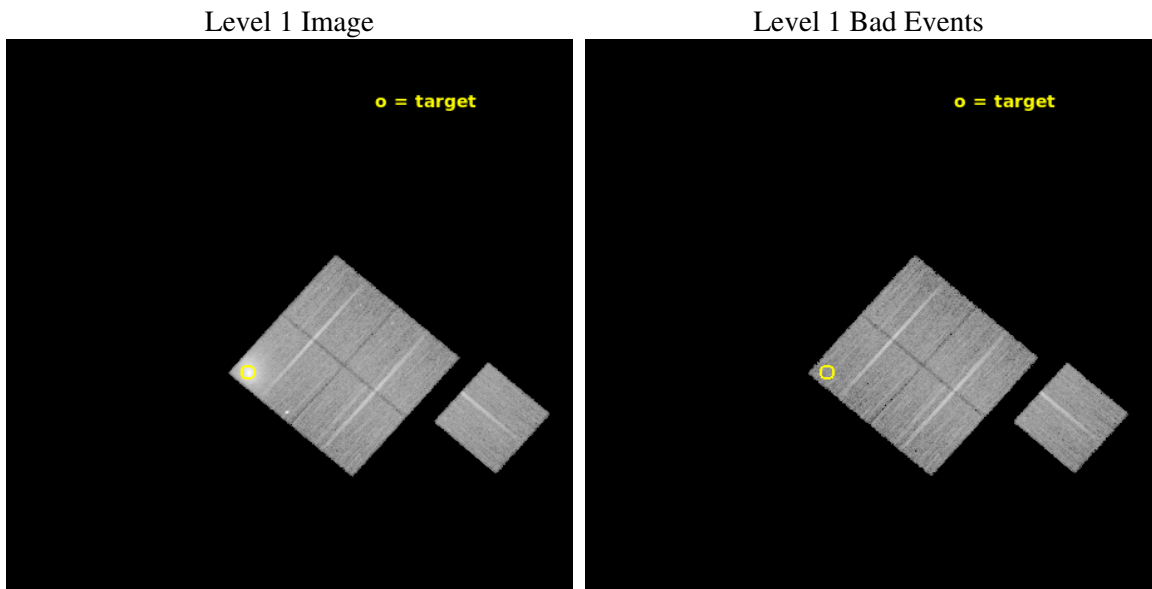
seq_num	890031	Sequence number
obs_id	6159	Observation id
title	Monitoring the Spatial Variation of the ACIS Contaminant with Abell 1795	Proposal title
observer	CXC Calibration	Principal investigator
object	A1795	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	207.219583	Observer's specified target RA [deg]
dec_targ	26.590833	Observer's specified target Dec [deg]
ra_nom	207.14110800459	Nominal RA [deg]
dec_nom	26.67892315319	Nominal Dec [deg]
roll_nom	130.97702447369	Nominal Roll [deg]
revision	4	Processing version of data
ontime	15047.358980775	Sum of GTIs [s]
livetime	14850.754157987	Livetime [s]
ontime0	15047.358990788	Sum of GTIs [s]
ontime1	15047.358980775	Sum of GTIs [s]
ontime2	15047.358970881	Sum of GTIs [s]
ontime3	15050.499971032	Sum of GTIs [s]
ontime6	15050.499971032	Sum of GTIs [s]
l2events	119704	Number of level 2 events



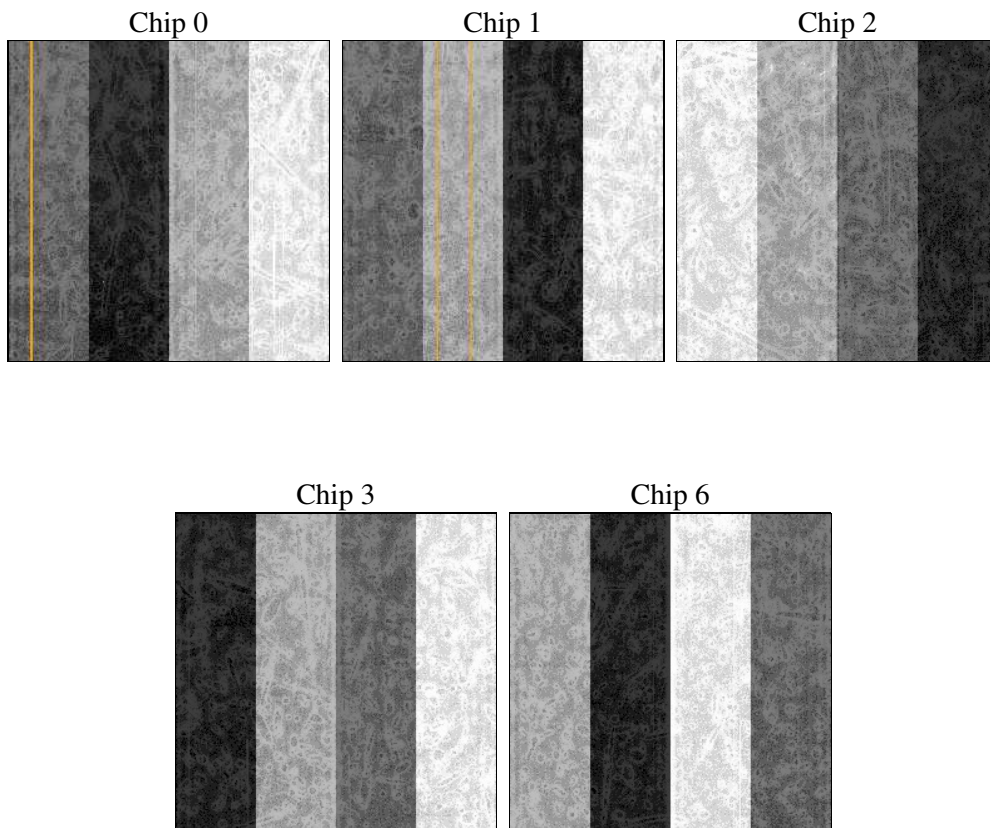
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	15000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	15047.358980775	Sum of GTIs [s]
caldsver	4.9.2	&#160	ontime0	15047.358990788	Sum of GTIs [s]
date	2020-10-07T11:22:09	Date and time of file creation	ontime1	15047.358980775	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	15047.358970881	Sum of GTIs [s]
			ontime3	15050.499971032	Sum of GTIs [s]
			ontime6	15050.499971032	Sum of GTIs [s]
			l1events	540600	Number of level 1 events

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	88002	168318	95966	94676	93638
rejected events	76872	77310	86307	84719	84499
rejected %	87%	45%	89%	89%	90%

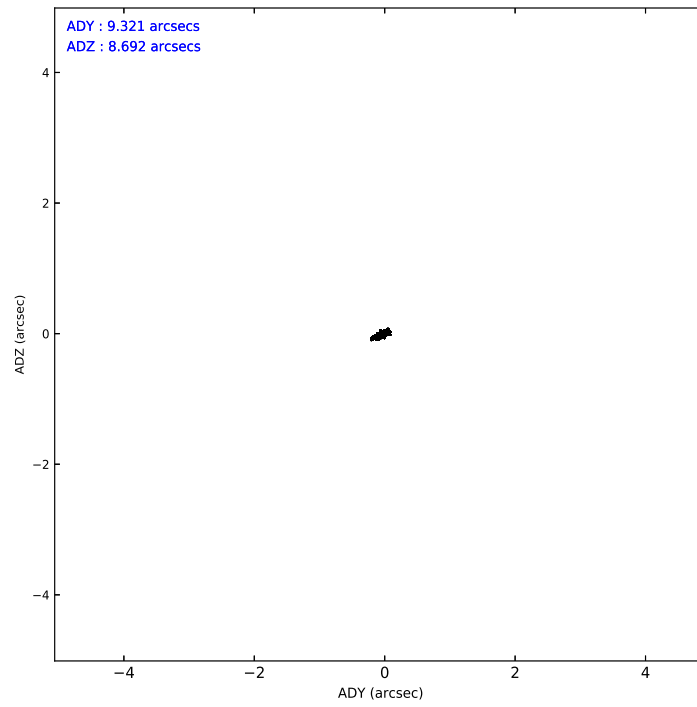
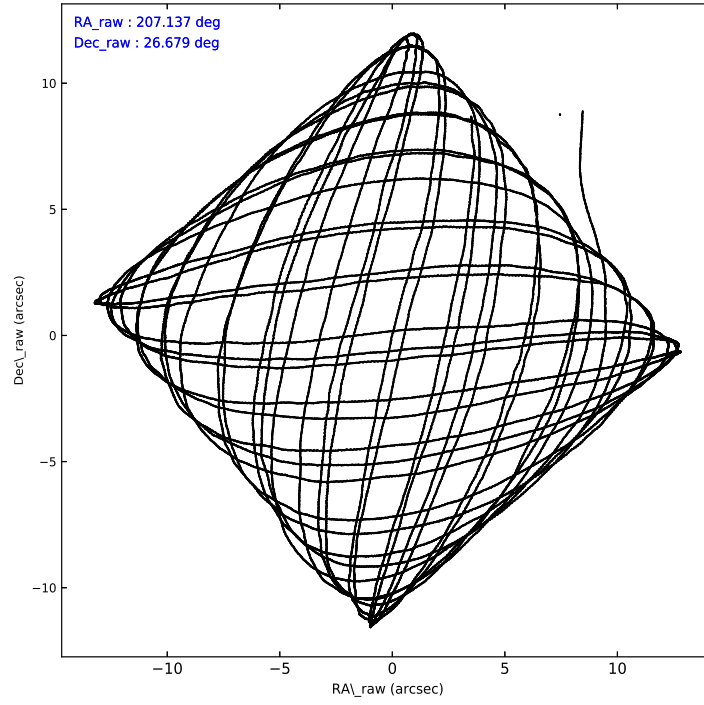
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	4692	68567	3637	4086	3125
	5%	40%	3%	4%	3%
grade 1 events	46	332	61	52	36
	0%	0%	0%	0%	0%
grade 2 events	2320	10617	2197	1955	2011
	2%	6%	2%	2%	2%
grade 3 events	1187	3787	1017	1086	1051
	1%	2%	1%	1%	1%
grade 4 events	1049	3755	1000	1076	993
	1%	2%	1%	1%	1%
grade 5 events	3281	3915	3126	3753	3605
	3%	2%	3%	3%	3%
grade 6 events	1886	4296	1810	1756	1963
	2%	2%	1%	1%	2%
grade 7 events	73541	73049	83118	80912	80854
	83%	43%	86%	85%	86%

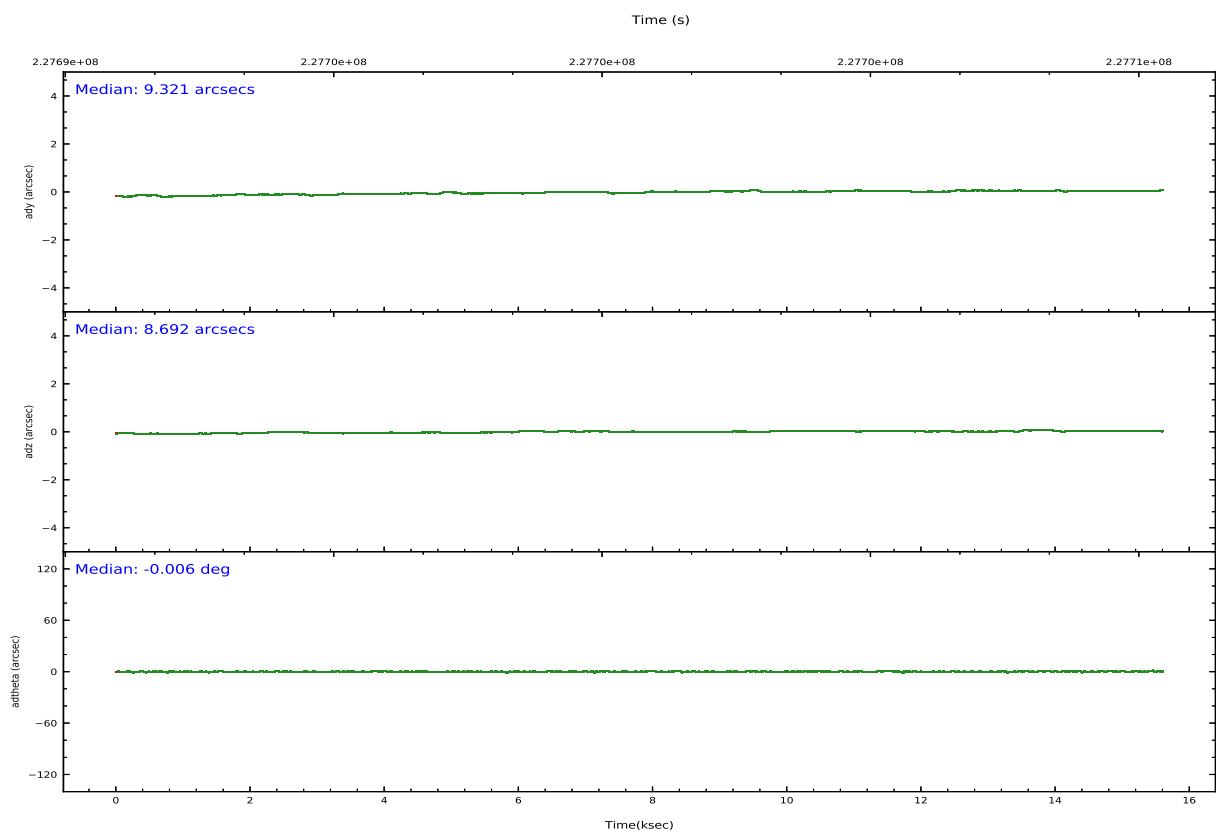
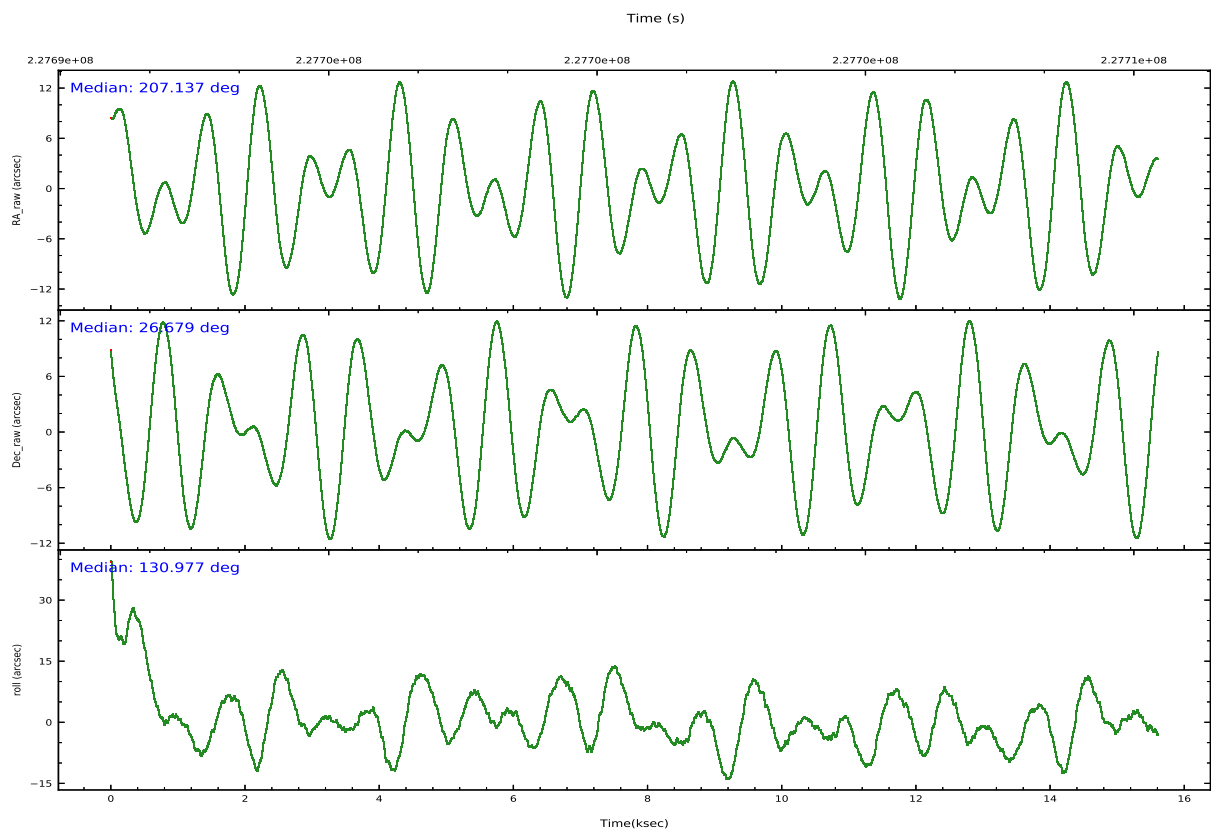


## 2.2 Compared Parameters

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	207.165923	207.14110800459	Subarray requested	NONE	NONE
[deg] Pointing Dec	26.670502	26.67892315319	Alternating exposures requested	N	N
[deg] Pointing Roll	130.759506	130.97702447369	[s] Primary exposure time	0.000000	3.1
[s] Window start time (MET)	218246464.184000	218246464.184000			
[s] Window stop time (MET)	228614464.184000	228614464.184000			
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-256.092463	-256.0955850403938			
[mm] SIM translation stage offset	22.5	22.50313203746413			
[s] Observation start time (MET)	227693363.184000	227692219.918			
Observation start date	2005-03-20T08:08:19	2005-03-20T07:50:19			
[s] Observation end time (MET)	227708363.184000	227708517.41874			
Observation end date	2005-03-20T12:18:19	2005-03-20T12:21:57			
Read mode	TIMED	TIMED			

## 2.3 Aspect



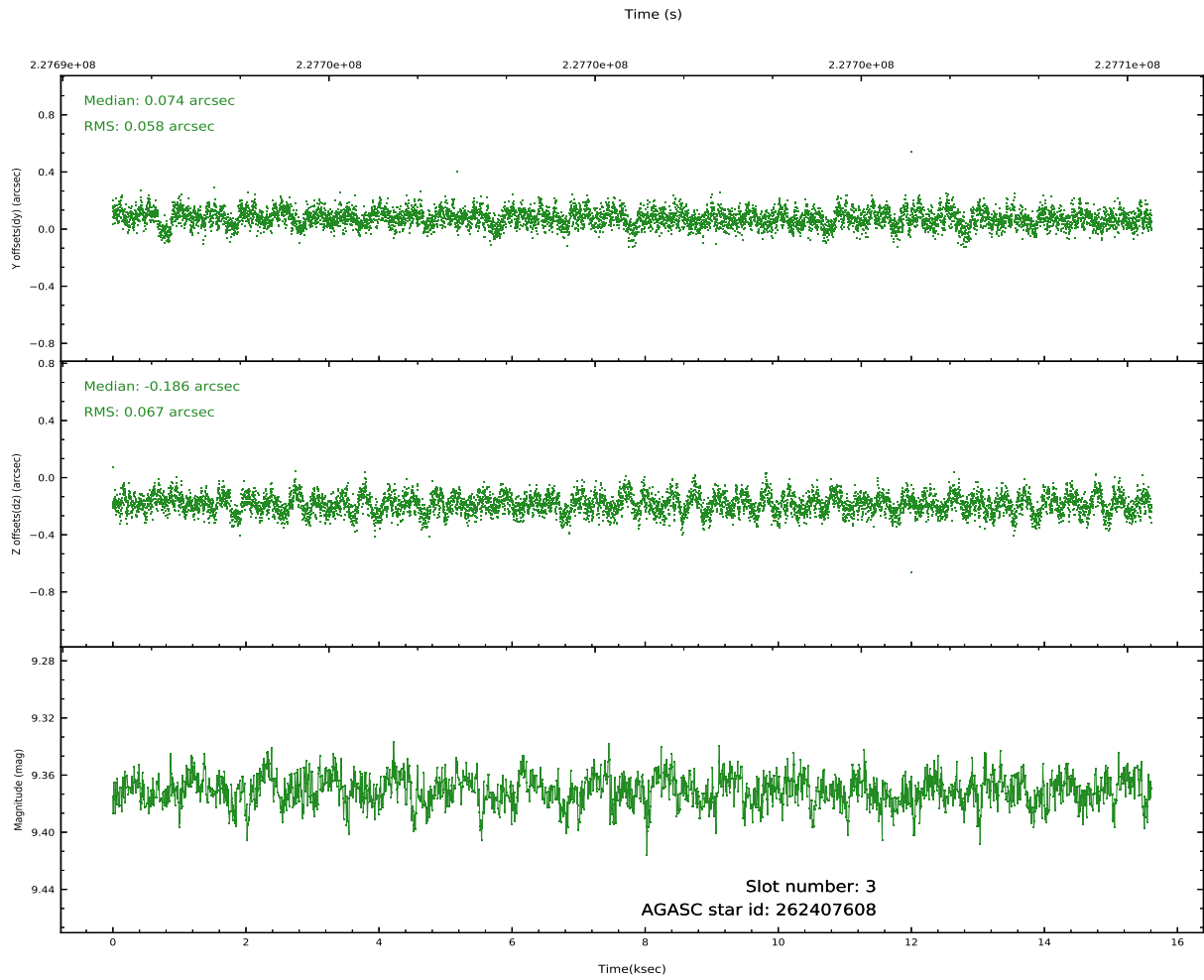
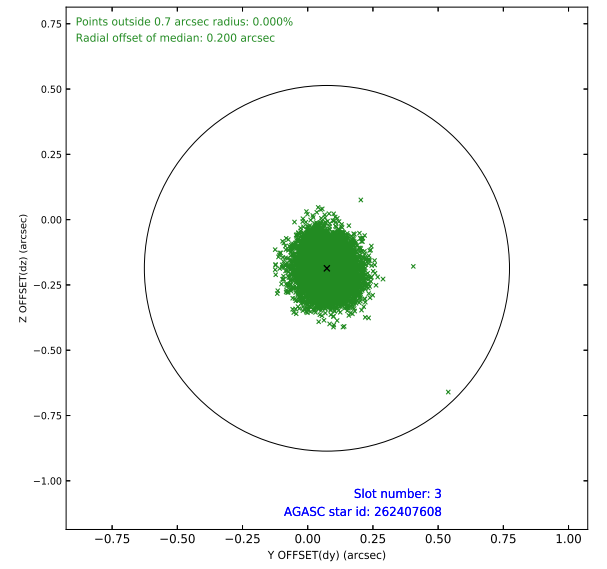
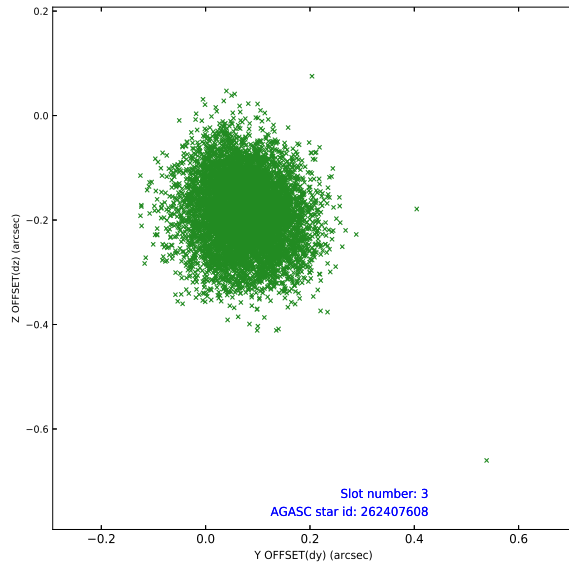


Slot Statistics

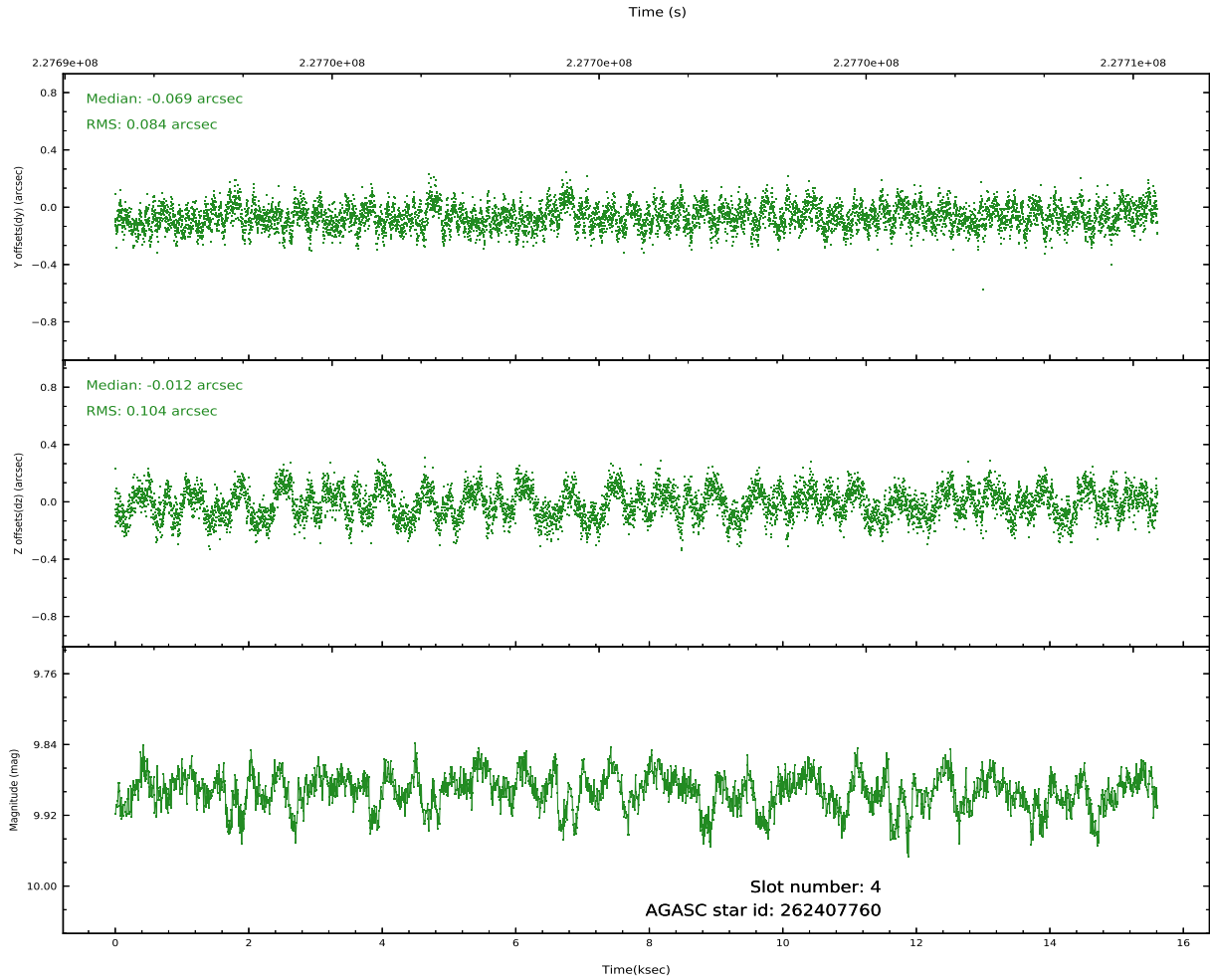
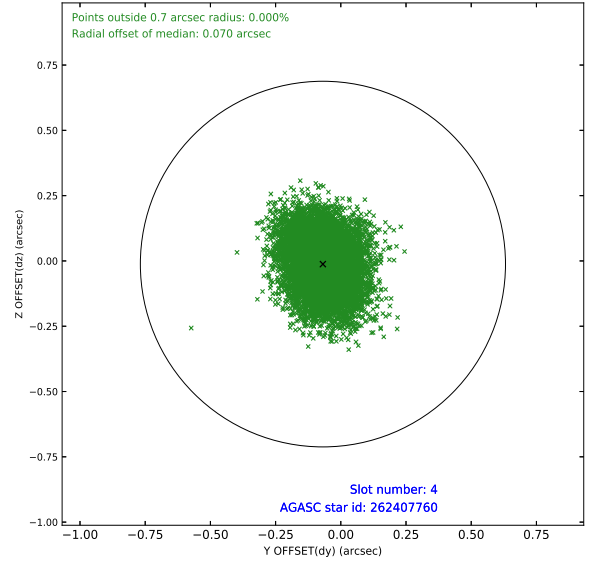
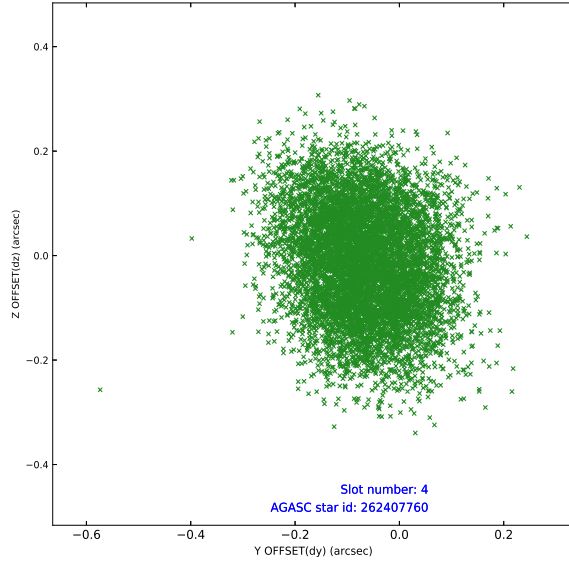
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.35	3808	1.000	-0.077	0.117	0.007	0.012	0.000000	0.000000	930.70	-369
1	FID		ACIS-I-5	7.24	3807	1.000	-0.099	-0.027	0.007	0.012	0.000000	0.000000	-1817.40	1527
2	FID		ACIS-I-6	7.25	3808	1.000	0.085	-0.023	0.008	0.013	0.000000	0.000000	395.93	2172
3	GUIDE	used	262407608	9.37	7614	1.000	0.074	-0.186	0.096	0.152	207.378401	26.435507	-1087.07	33
4	GUIDE	used	262407760	9.89	7610	1.000	-0.069	-0.012	0.143	0.223	206.566773	26.577263	1008.74	1677
5	GUIDE	used	262407800	10.09	7605	1.000	-0.241	0.153	0.170	0.261	207.321181	27.251762	1262.02	-1741
6	GUIDE	used	262408096	9.36	7587	1.000	0.144	-0.013	0.112	0.188	207.011678	26.515421	-97.42	740
7	GUIDE	used	262408936	9.67	7609	1.000	0.084	0.057	0.153	0.237	207.154731	26.726554	176.81	-104

## 2.4 Star Slots

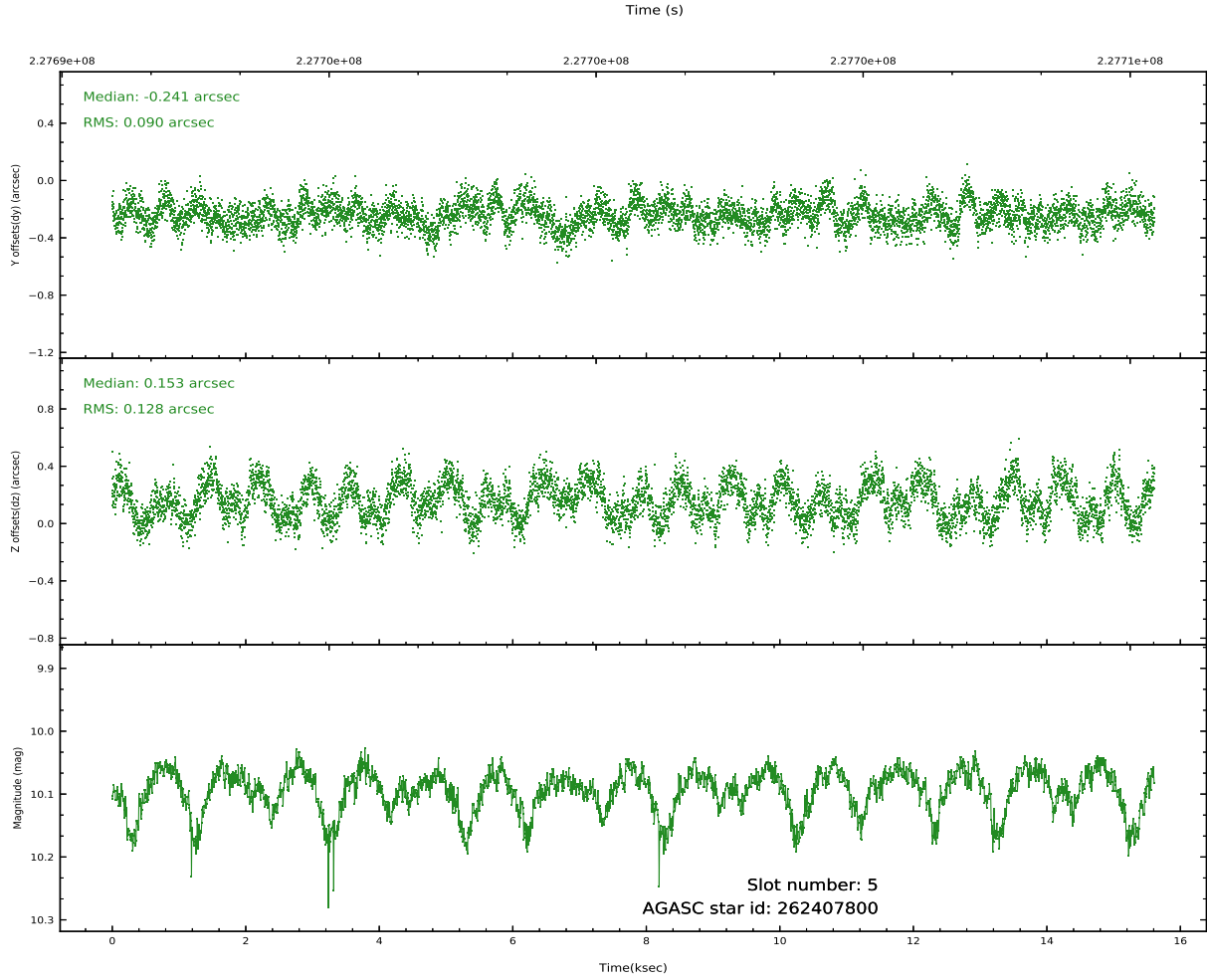
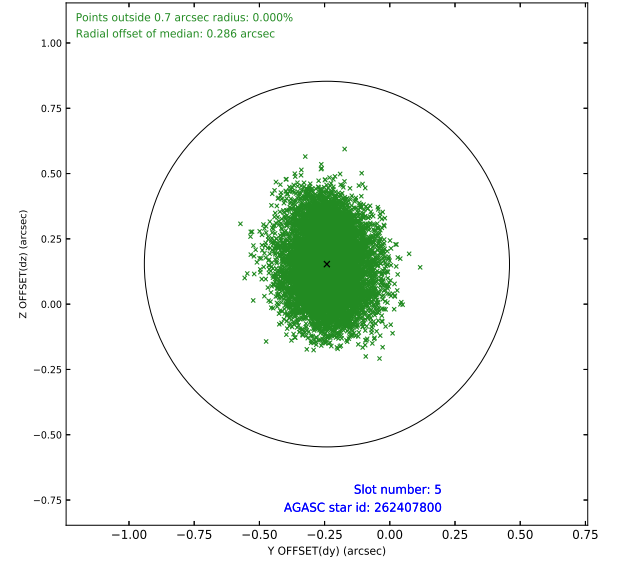
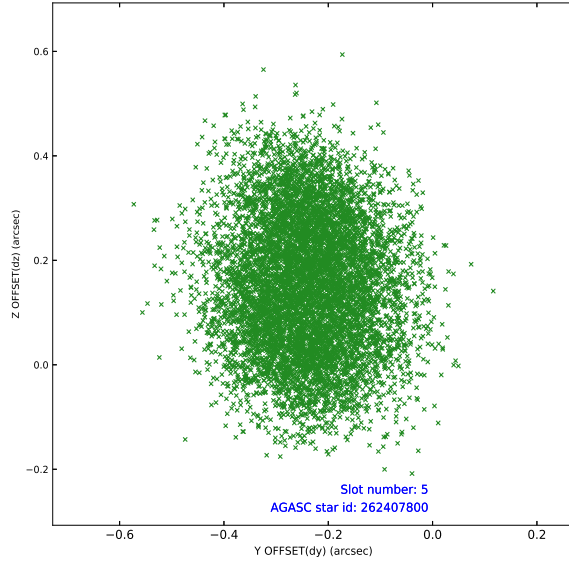
### 2.4.1 Slot 3



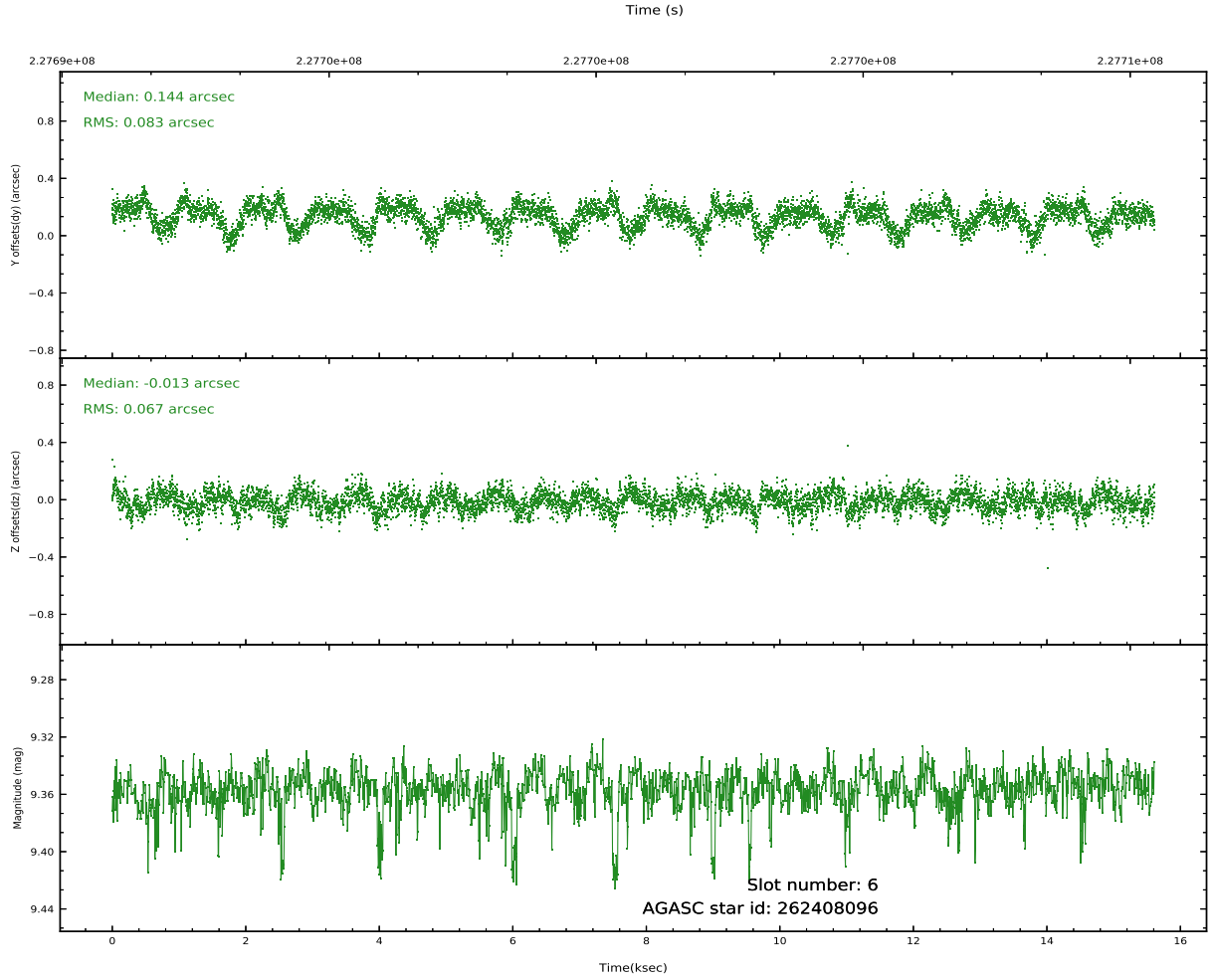
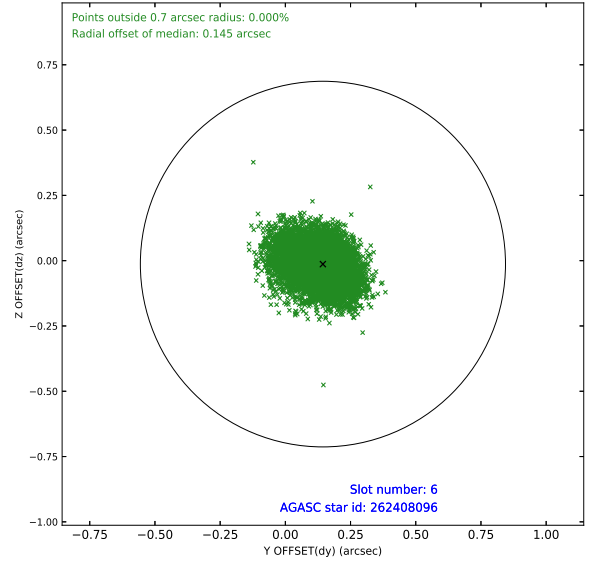
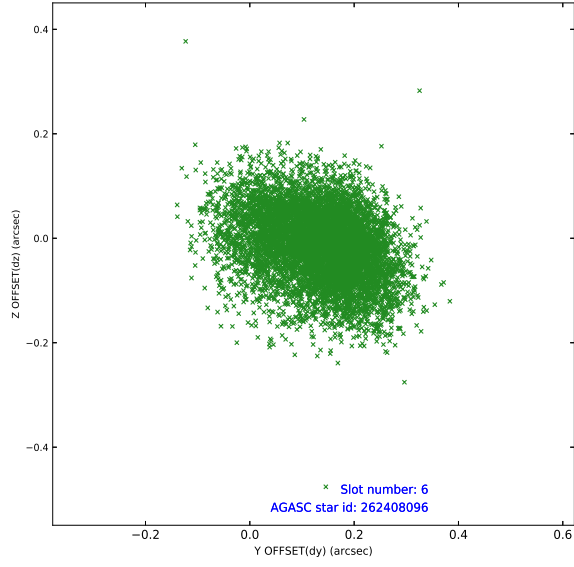
## 2.4.2 Slot 4



### 2.4.3 Slot 5

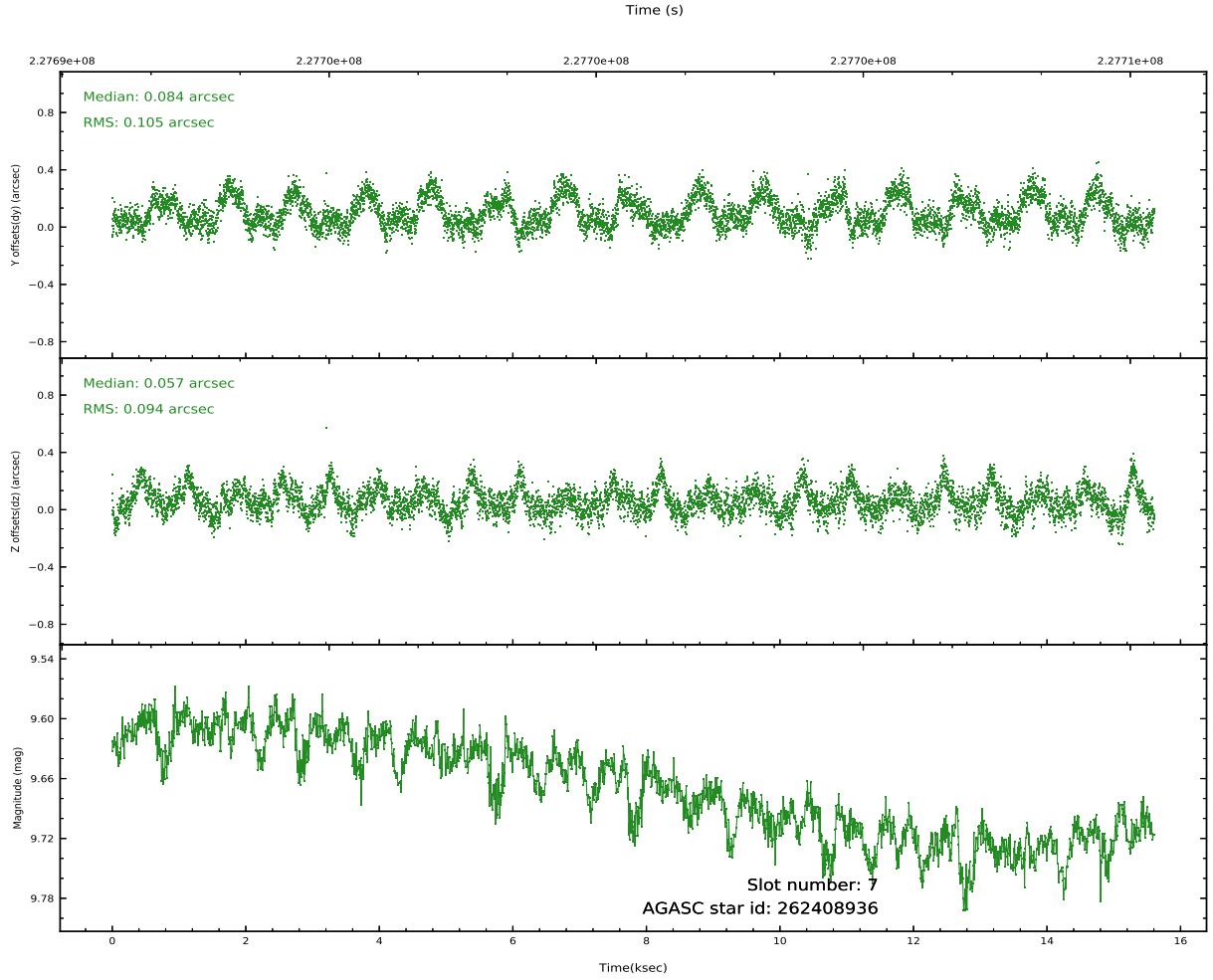
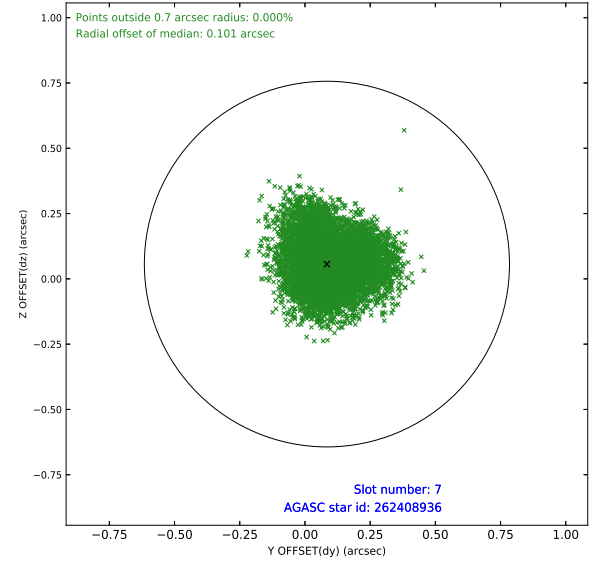
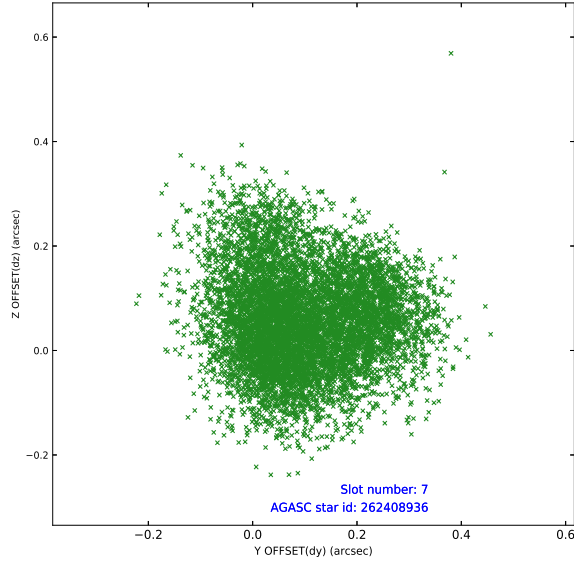


## 2.4.4 Slot 6



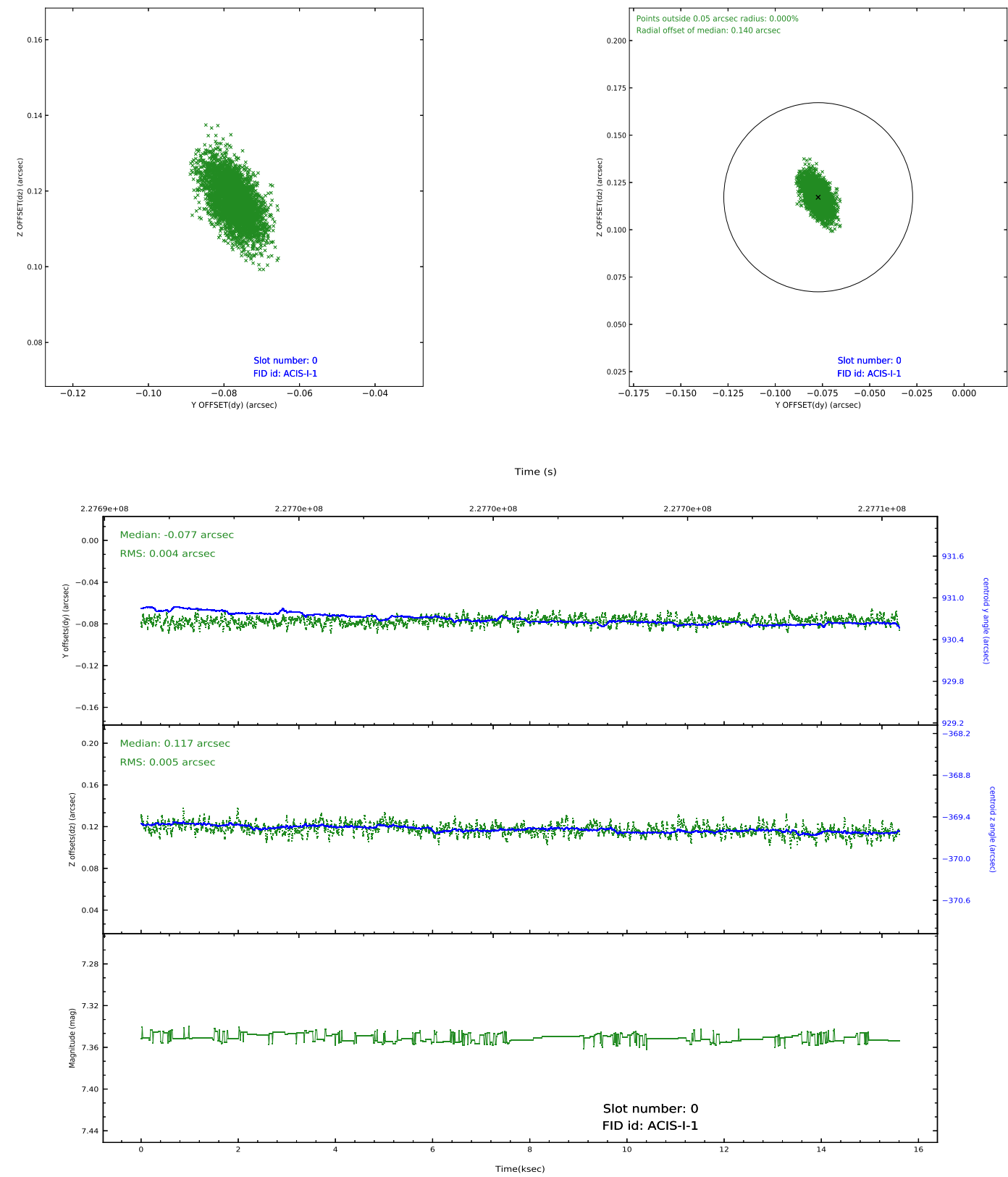


## 2.4.5 Slot 7

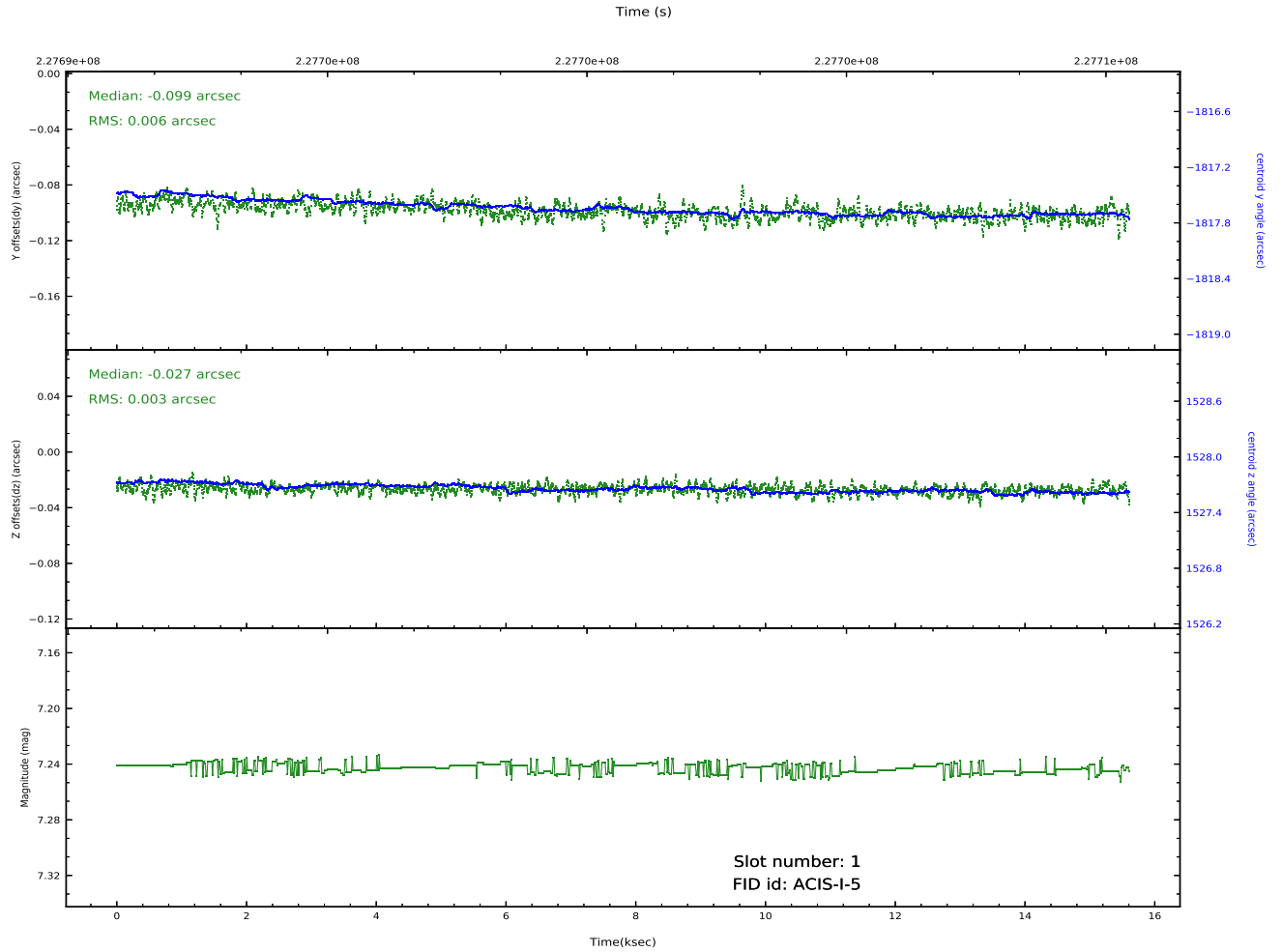
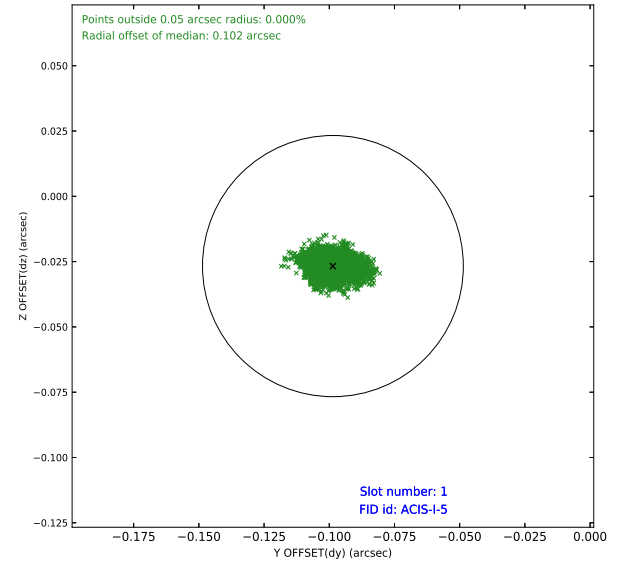
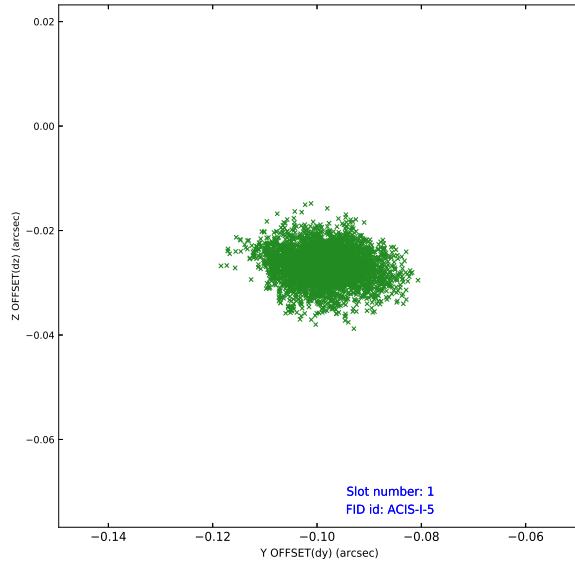


# 2.5 FID Slots

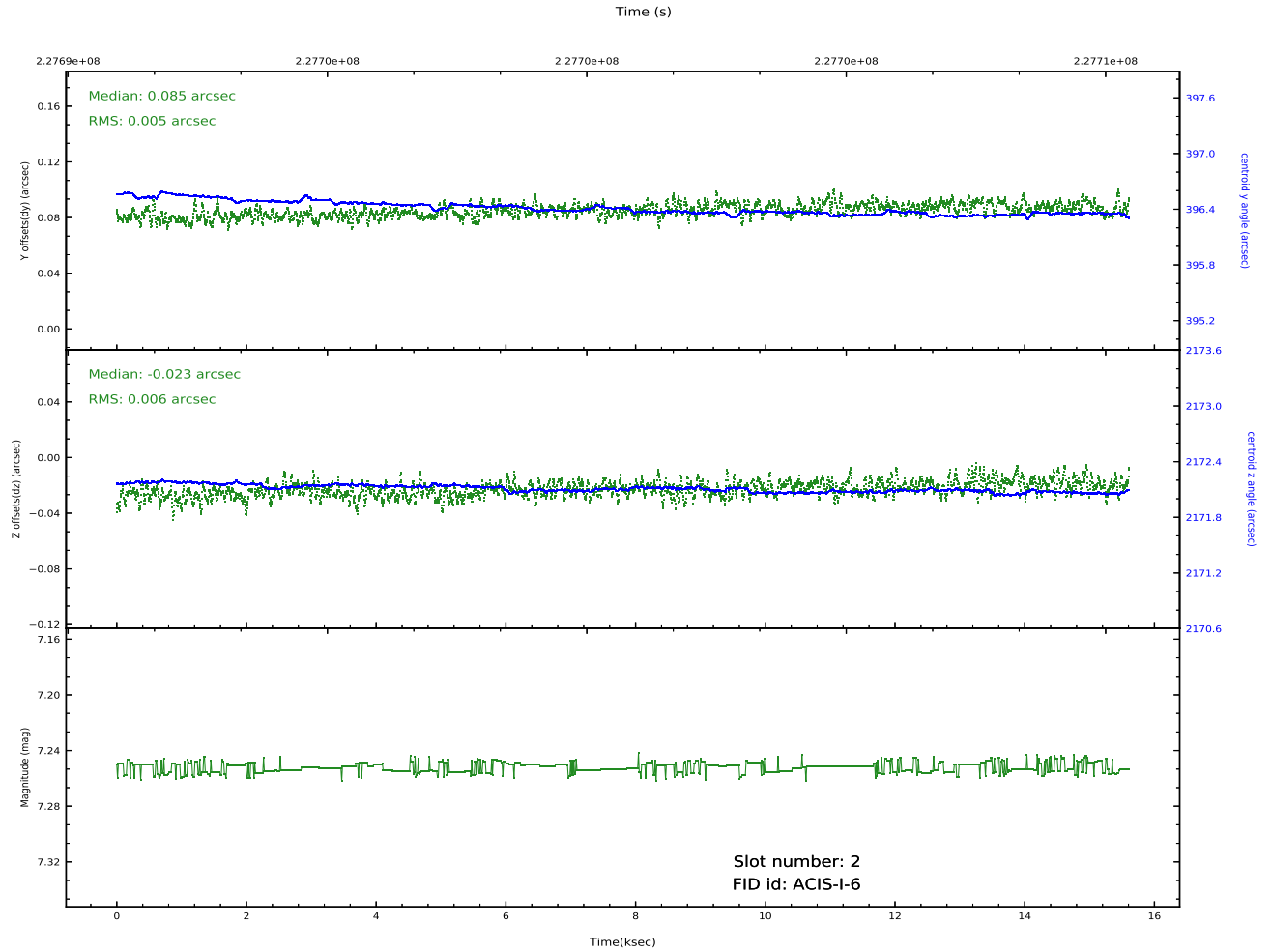
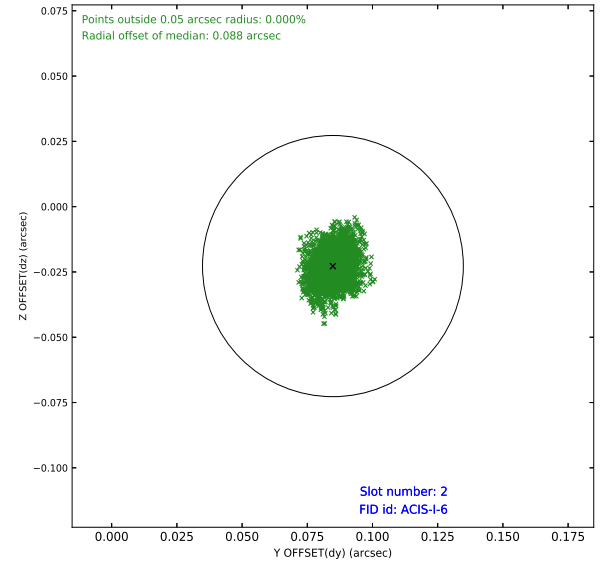
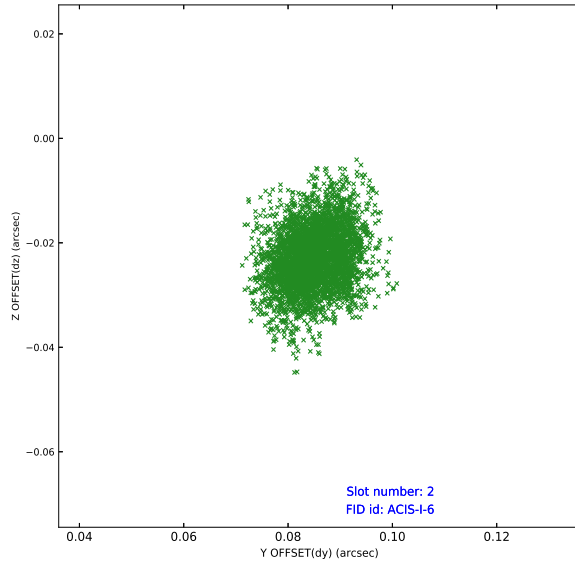
## 2.5.1 Slot 0



## 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)	2020.10.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	15.04735

### A.2 Comments

Window constraint satisfied.