

# V&V Reference Report

## L2 ASCDS Version : 10.9.1

Observation 5954 - L2 Version 6  
Chandra X-Ray Center

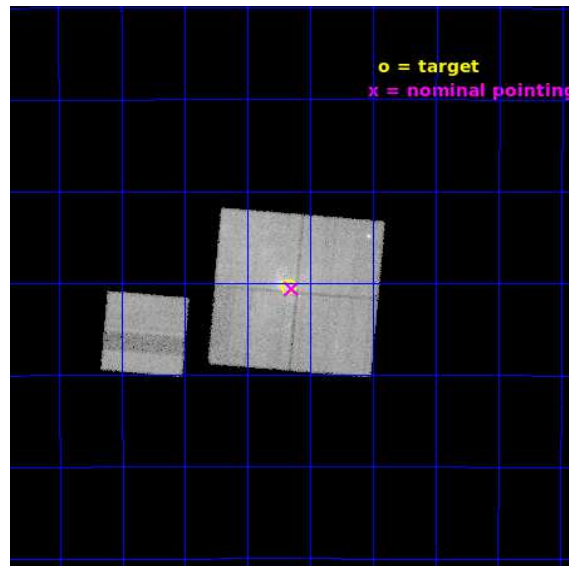
L2 Processing Date : Oct 9 2020

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# 1 Front

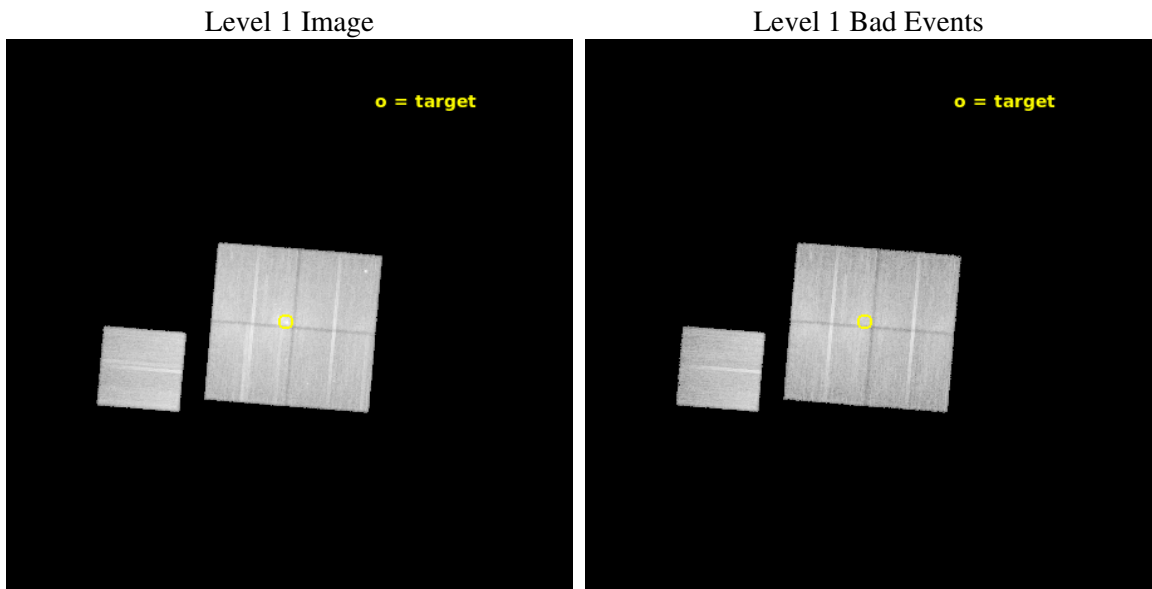
seq_num	600473	Sequence number
obs_id	5954	Observation id
title	Simultaneous Gamma-Ray to Sub-Millimeter Monitoring of Sagittarius A*	Proposal title
observer	Dr. Frederick Baganoff	Principal investigator
object	Sgr A*	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	266.416667	Observer's specified target RA [deg]
dec_targ	-29.007778	Observer's specified target Dec [deg]
ra_nom	266.41149335703	Nominal RA [deg]
dec_nom	-29.010285488921	Nominal Dec [deg]
roll_nom	274.86096164587	Nominal Roll [deg]
revision	6	Processing version of data
ontime	18060.599965245	Sum of GTIs [s]
livetime	17824.624930678	Livetime [s]
ontime0	18057.458984971	Sum of GTIs [s]
ontime1	18060.599965245	Sum of GTIs [s]
ontime2	18054.318074346	Sum of GTIs [s]
ontime3	18060.599965245	Sum of GTIs [s]
ontime6	18060.599965245	Sum of GTIs [s]
l2events	260971	Number of level 2 events



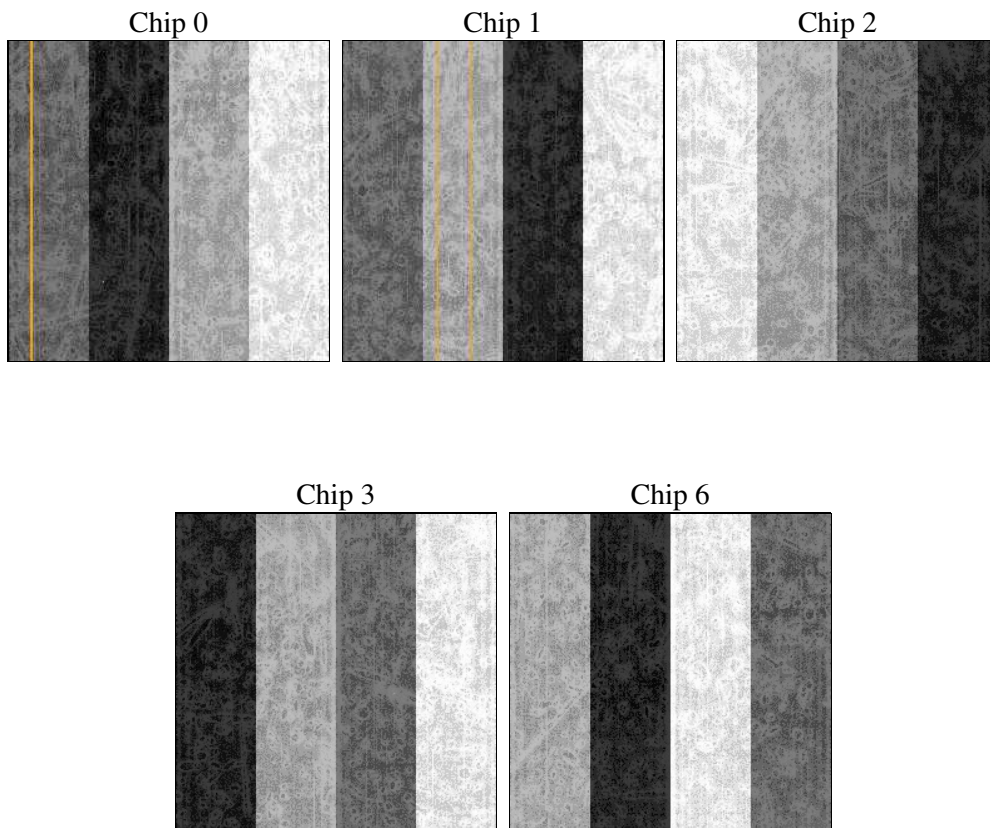
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	46500.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	18060.599965245	Sum of GTIs [s]
caldbver	4.9.2	&#160	ontime0	18057.458984971	Sum of GTIs [s]
date	2020-10-09T18:01:45	Date and time of file creation	ontime1	18060.599965245	Sum of GTIs [s]
revision	6	Processing version of data	ontime2	18054.318074346	Sum of GTIs [s]
			ontime3	18060.599965245	Sum of GTIs [s]
			ontime6	18060.599965245	Sum of GTIs [s]
			l1events	1138701	Number of level 1 events

### 2.1.4 Events

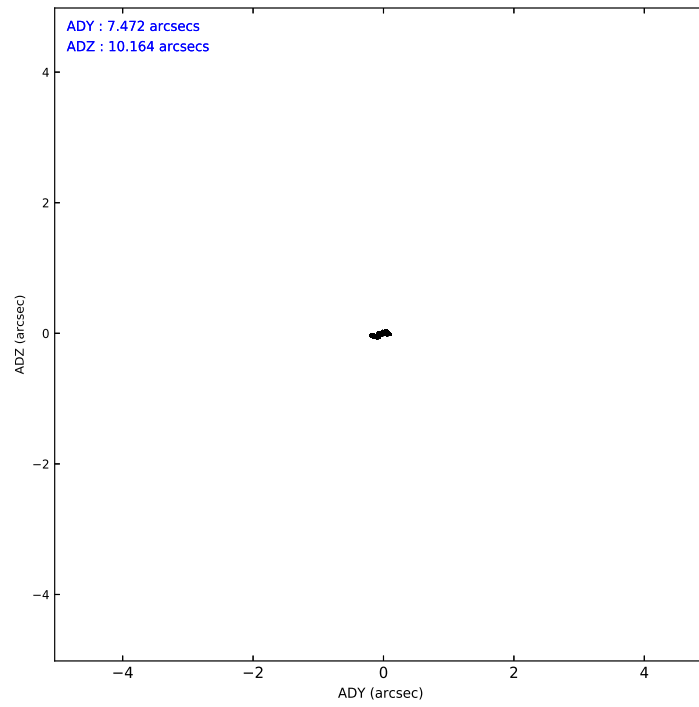
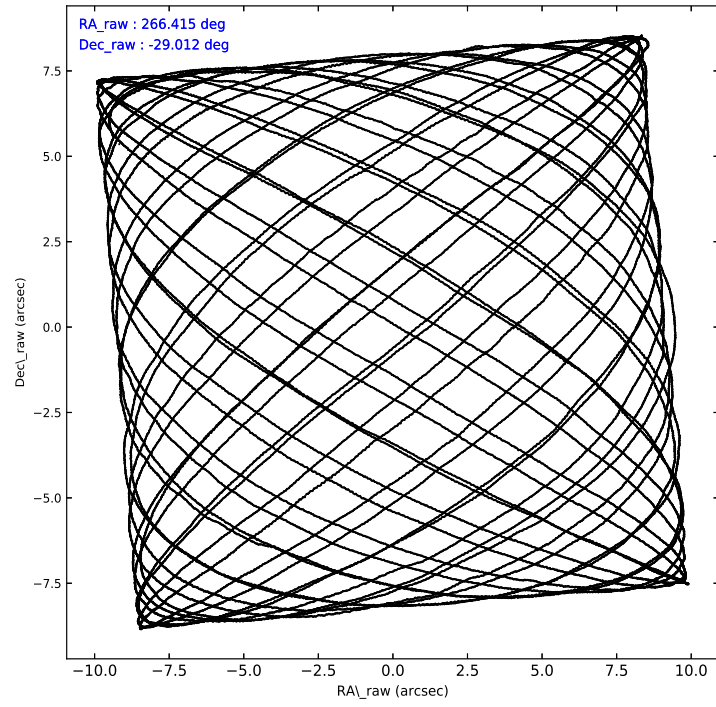
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	203590	208769	248093	251119	227130
rejected events	145093	149168	183169	173589	178778
rejected %	71%	71%	73%	69%	78%

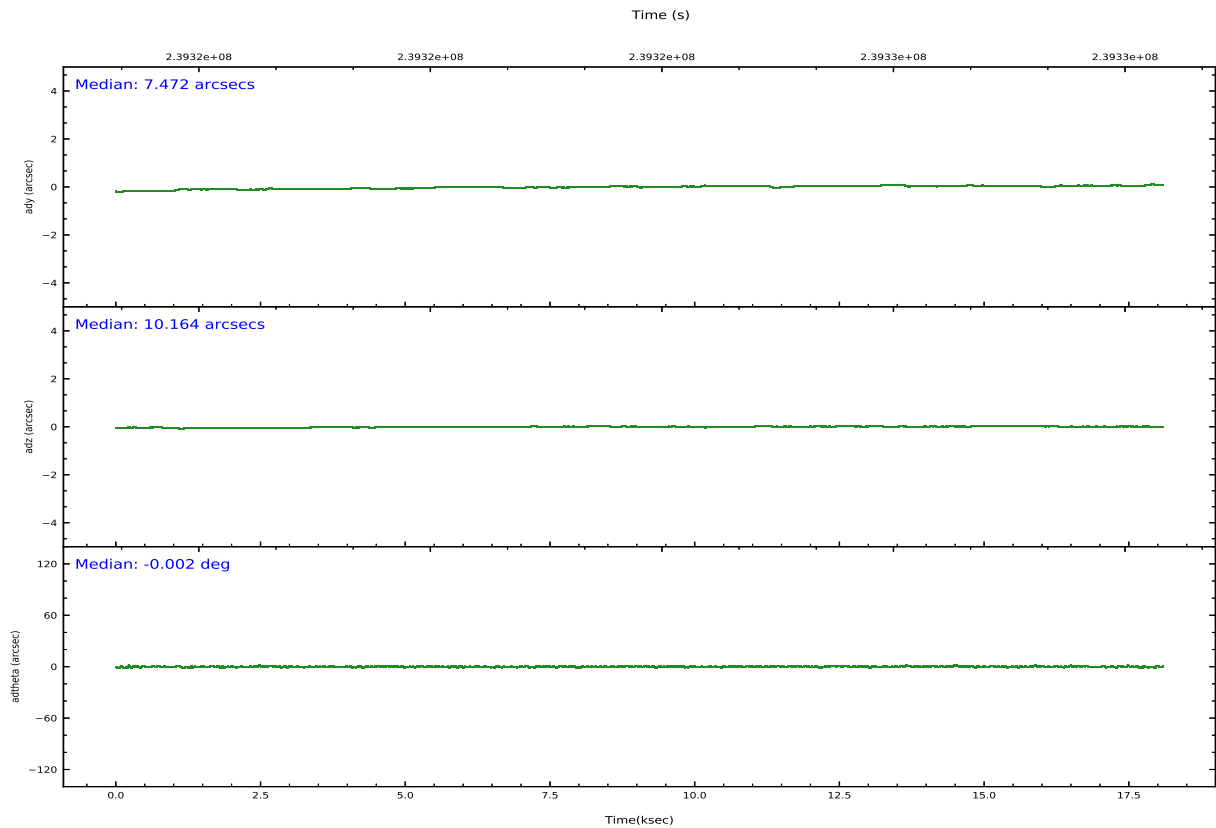
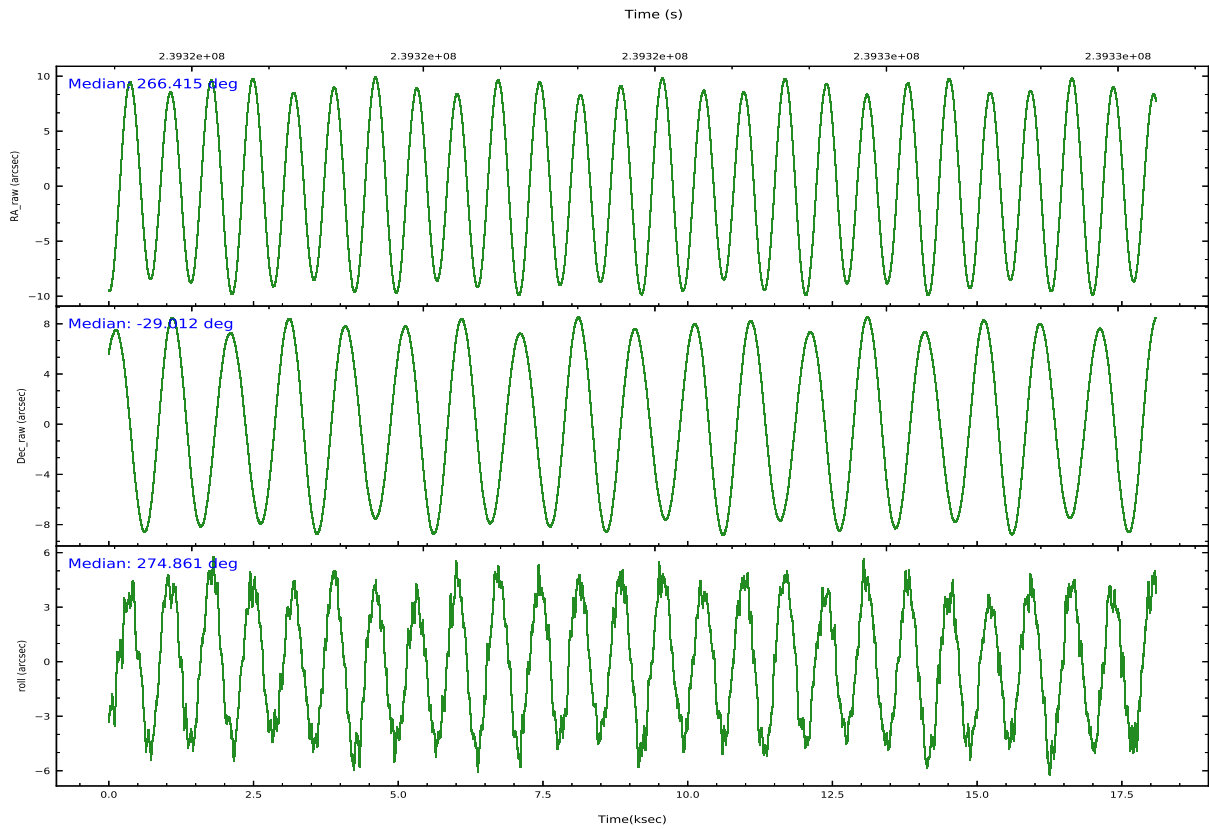
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	26605	24019	32680	39283	20014
	13%	11%	13%	15%	8%
grade 1 events	228	170	291	295	159
	0%	0%	0%	0%	0%
grade 2 events	16189	18009	15880	19406	15925
	7%	8%	6%	7%	7%
grade 3 events	2573	2902	2563	3449	1967
	1%	1%	1%	1%	0%
grade 4 events	2571	2625	4243	3680	2021
	1%	1%	1%	1%	0%
grade 5 events	5529	5867	5470	6348	6089
	2%	2%	2%	2%	2%
grade 6 events	10815	12317	9863	12073	8663
	5%	5%	3%	4%	3%
grade 7 events	139080	142860	177103	166585	172292
	68%	68%	71%	66%	75%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	8	8
Detector	ACIS-01236	ACIS-01236	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	OVERRIDE	OVERRIDE
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	266.397025	266.41149335703	Subarray requested	NONE	NONE
[deg] Pointing Dec	-28.989771	-29.010285488921	Alternating exposures requested	N	N
[deg] Pointing Roll	274.643525	274.86096164587	[s] Primary exposure time	3.1	3.1
[s] Window start time (MET)	239310904.184000	239310904.184000			
[s] Window stop time (MET)	239359924.184000	239359924.184000			
[mm] SIM focus pos	-0.7809083437167272	-0.7809083437167272			
[mm] SIM defocus	0.001439854621705816	0.001439854621705816			
[mm] SIM translation stage pos	-233.5874344608287	-233.5874344608287			
[mm] SIM translation stage offset	-0.005028630603106876	-0.005028630603106876			
[s] Observation start time (MET)	239314565.184000	239314565.184			
Observation start date	2005-08-01T20:15:01	2005-08-01T20:16:05			
[s] Observation end time (MET)	239332710.000000	239332710			
Observation end date	2005-08-02T01:18:30	2005-08-02T01:18:29			
Read mode	TIMED	TIMED			

## 2.3 Aspect





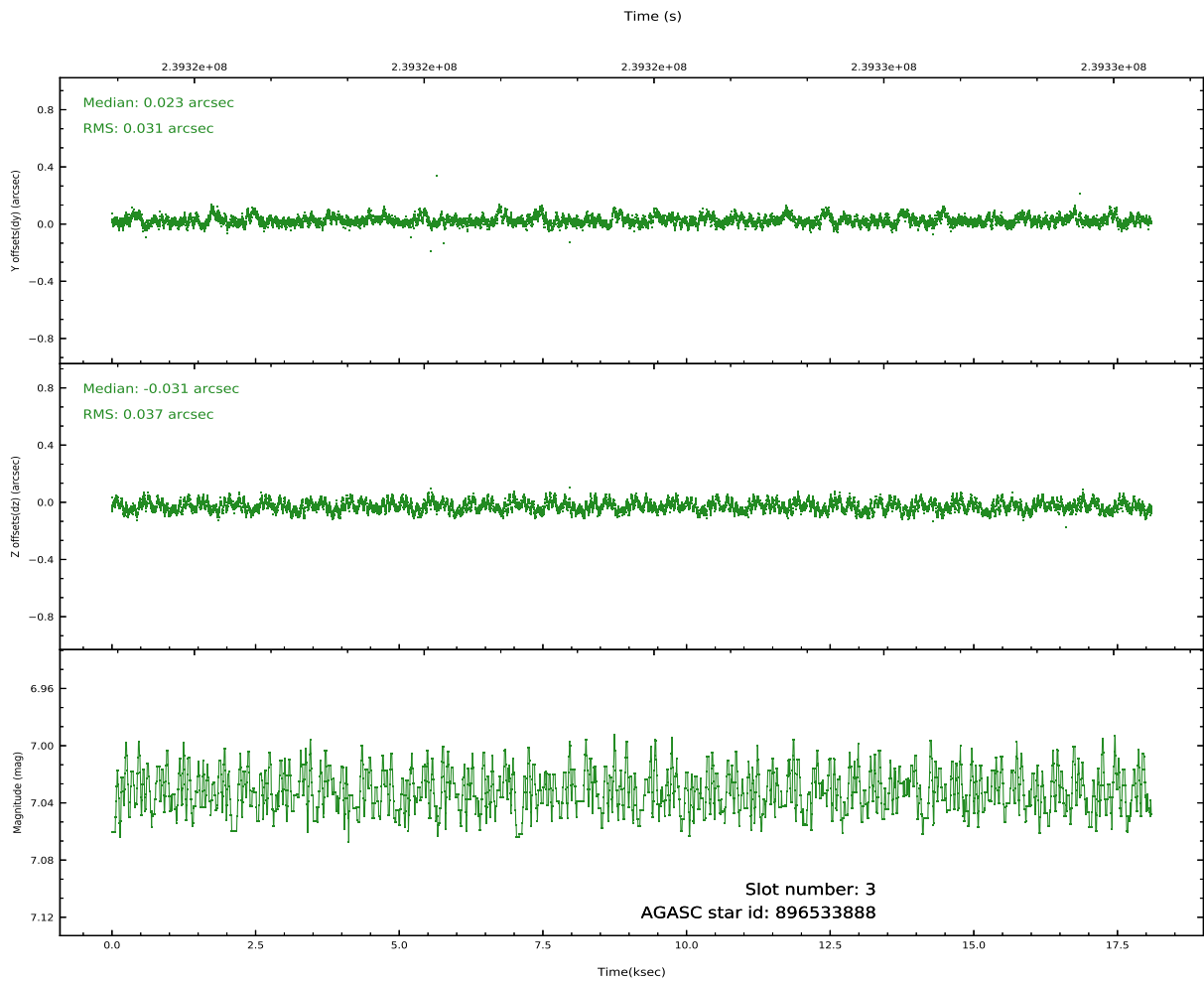
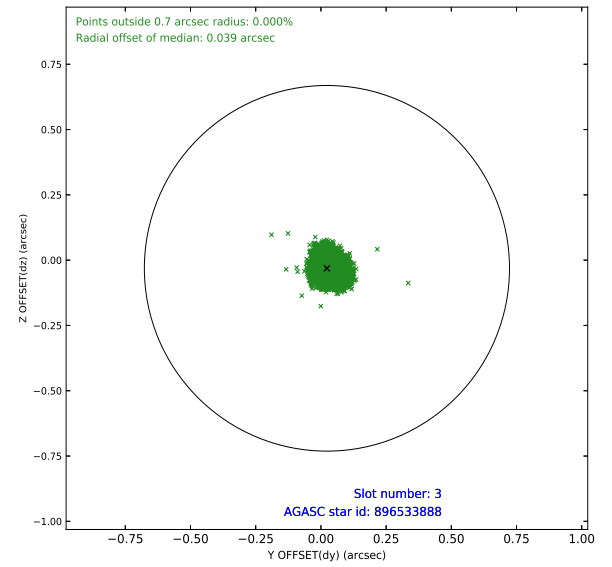
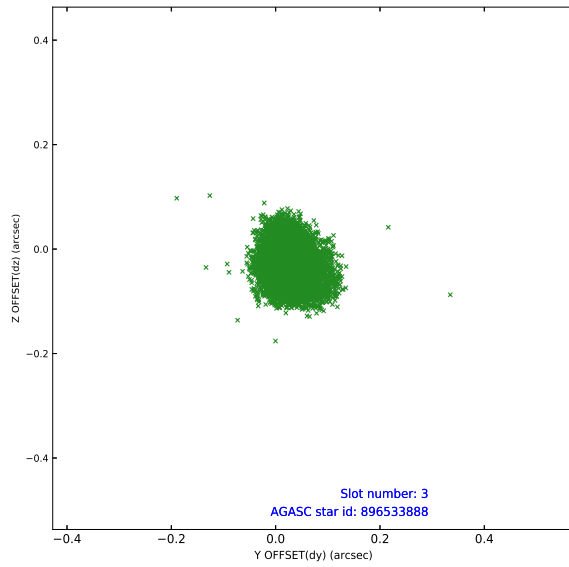
### Slot Statistics

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	4413	1.000	-0.028	-0.010	0.008	0.014	0.000000	0.000000	932.19	-833
1	FID		ACIS-I-4	7.18	4412	1.000	0.202	0.044	0.008	0.014	0.000000	0.000000	2152.58	1066
2	FID		ACIS-I-5	7.22	4413	1.000	-0.272	0.037	0.008	0.015	0.000000	0.000000	-1815.78	1064
3	GUIDE	used	896533888	7.03	8827	1.000	0.023	-0.031	0.051	0.081	266.666434	-29.392757	1515.56	724
4	GUIDE	used	896534664	8.19	8826	1.000	-0.043	-0.112	0.050	0.081	266.405570	-28.407461	-2086.70	196
5	GUIDE	used	896541360	7.72	8826	1.000	0.141	0.089	0.041	0.066	266.684478	-29.453744	1738.89	763
6	GUIDE	used	896541576	8.19	8822	1.000	-0.003	0.087	0.065	0.104	267.051055	-28.762912	-641.00	2123
7	GUIDE	used	896404568	7.86	8825	1.000	-0.122	-0.034	0.062	0.094	265.687293	-28.431080	-2179.94	-2077

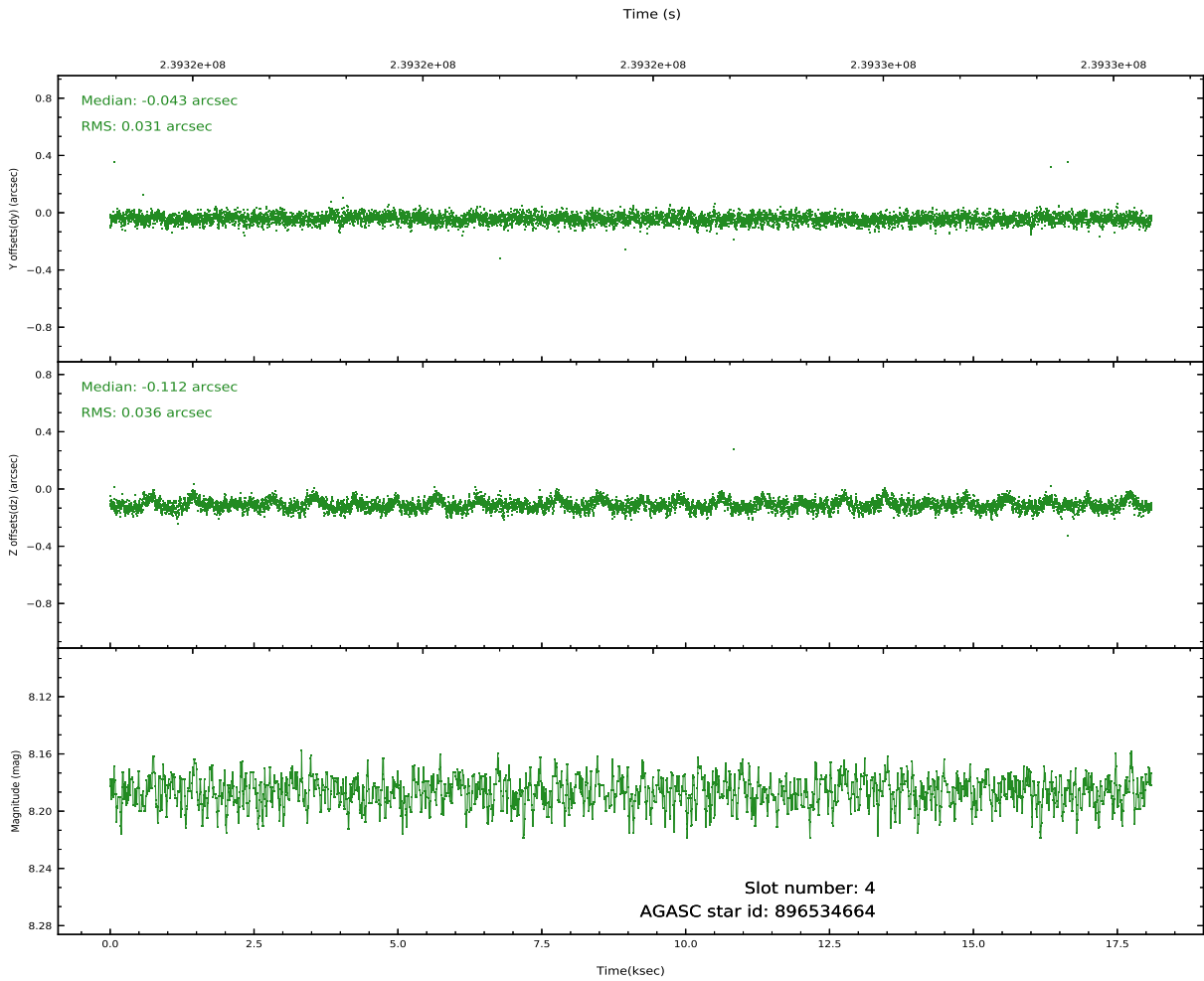
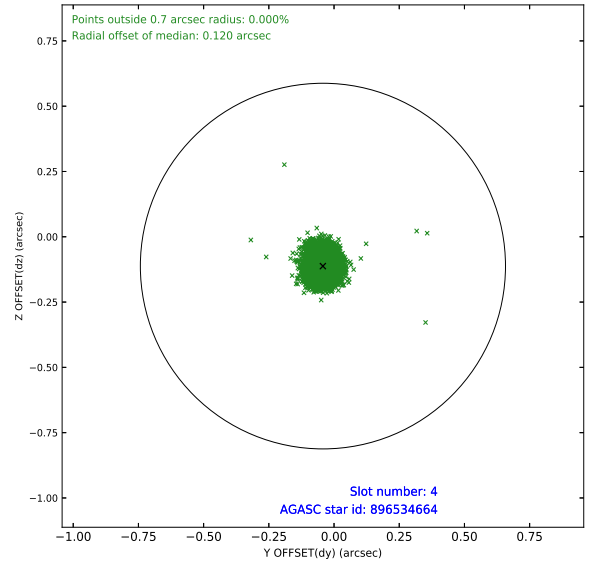
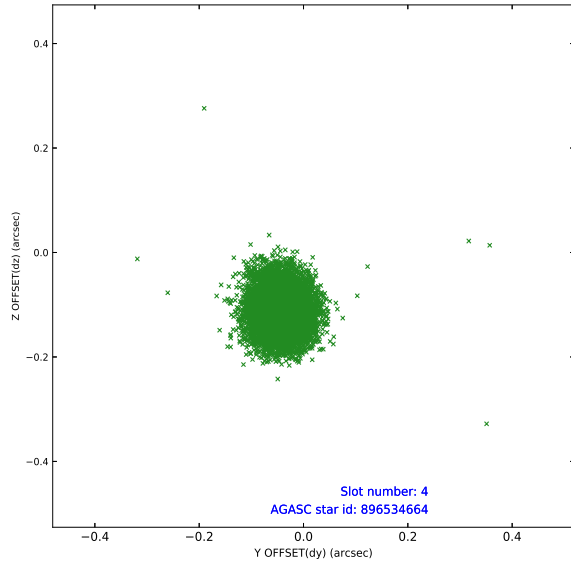
∞

## 2.4 Star Slots

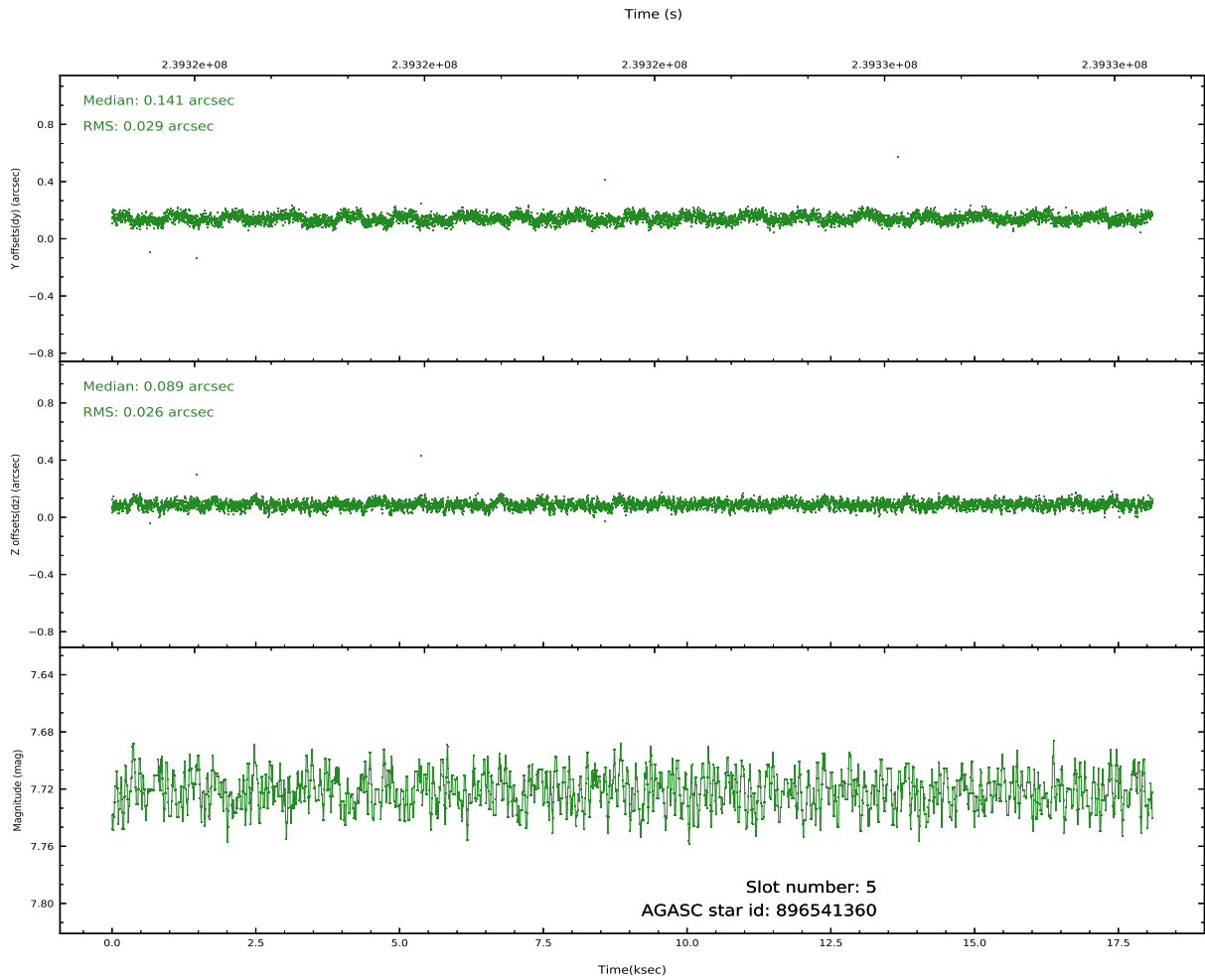
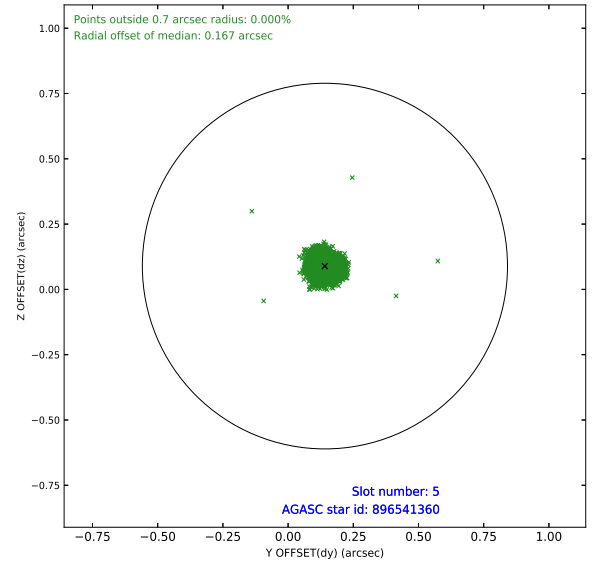
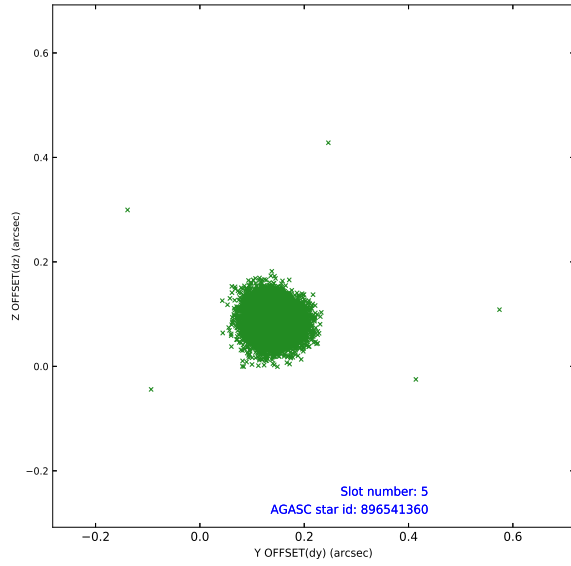
### 2.4.1 Slot 3



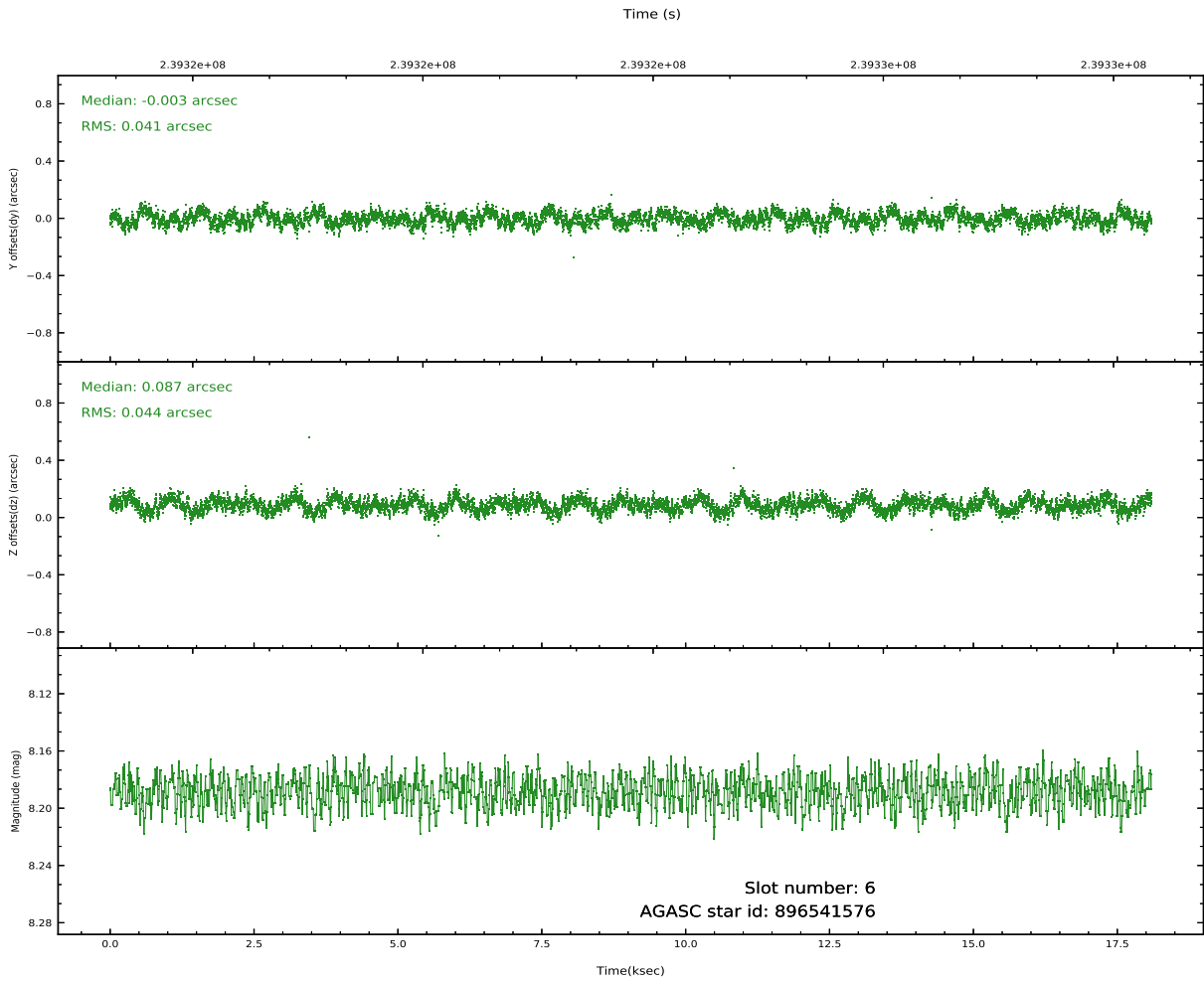
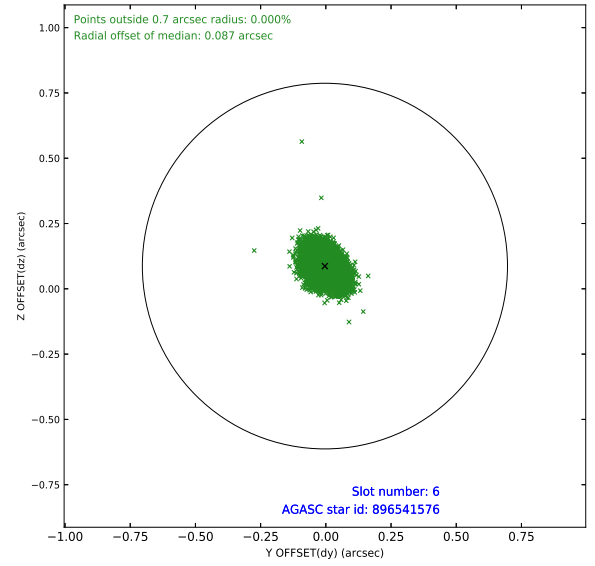
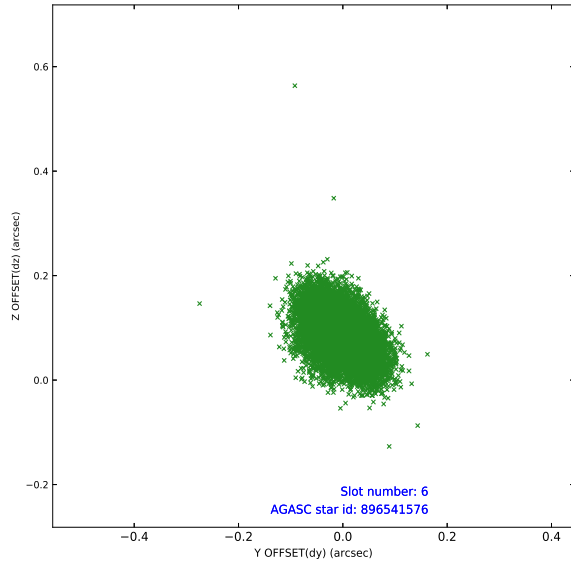
## 2.4.2 Slot 4



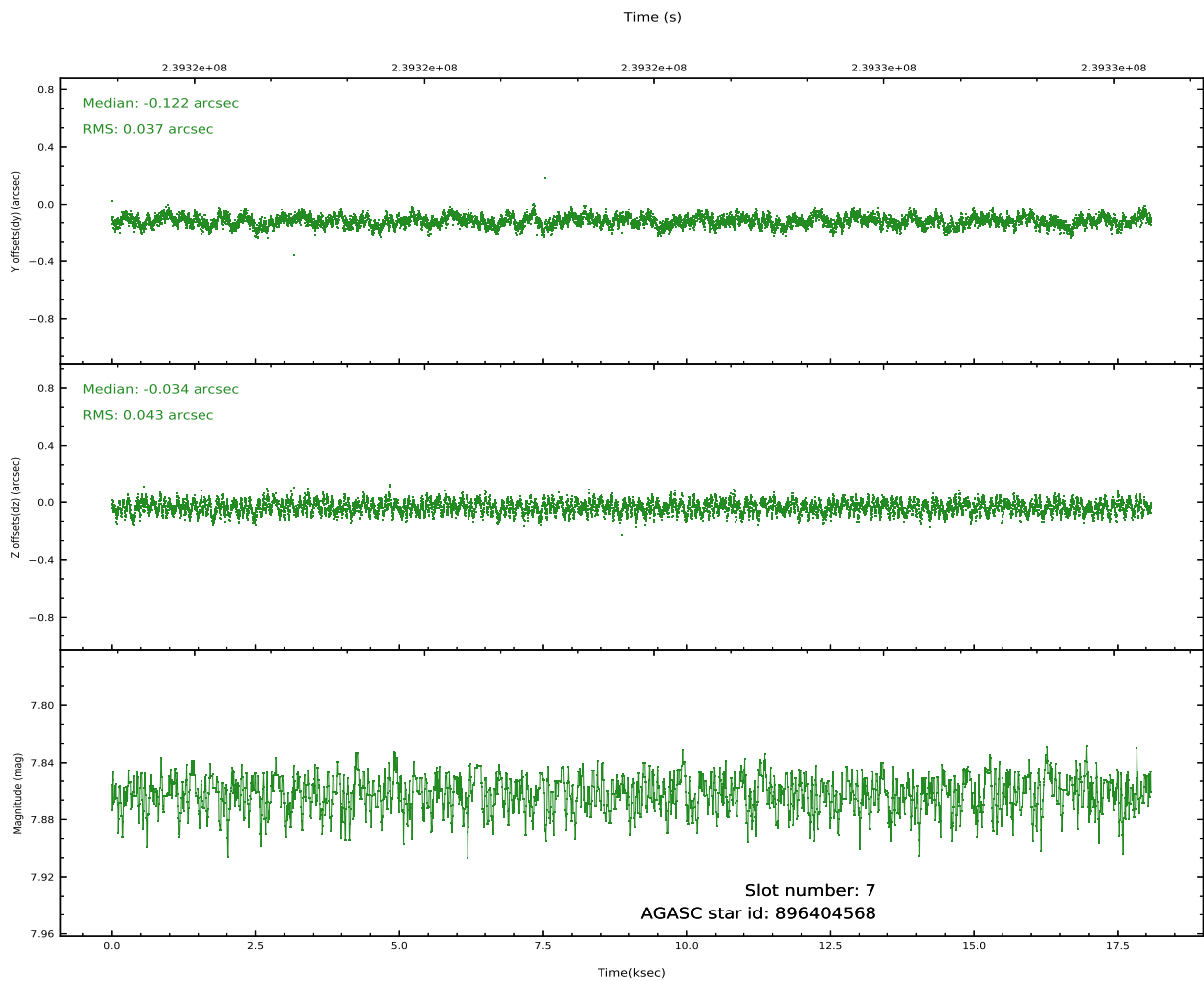
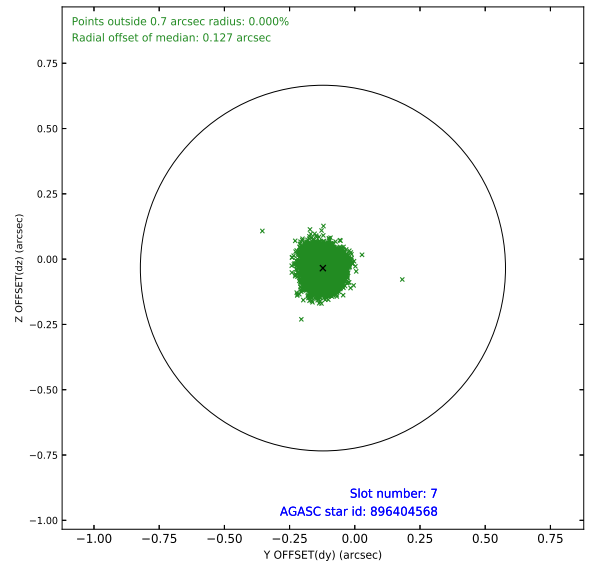
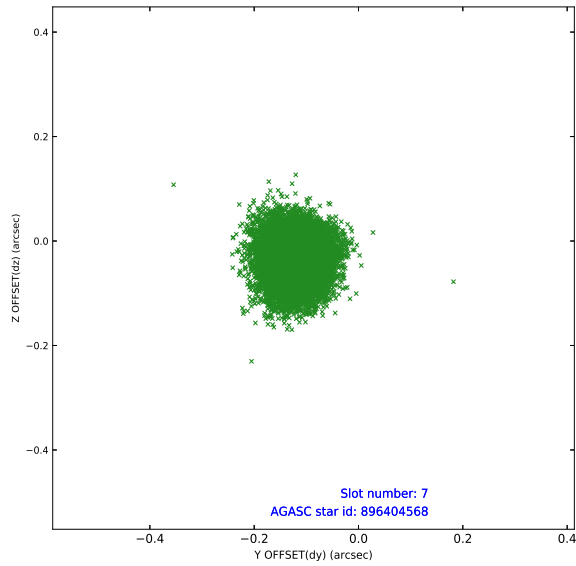
### 2.4.3 Slot 5



## 2.4.4 Slot 6

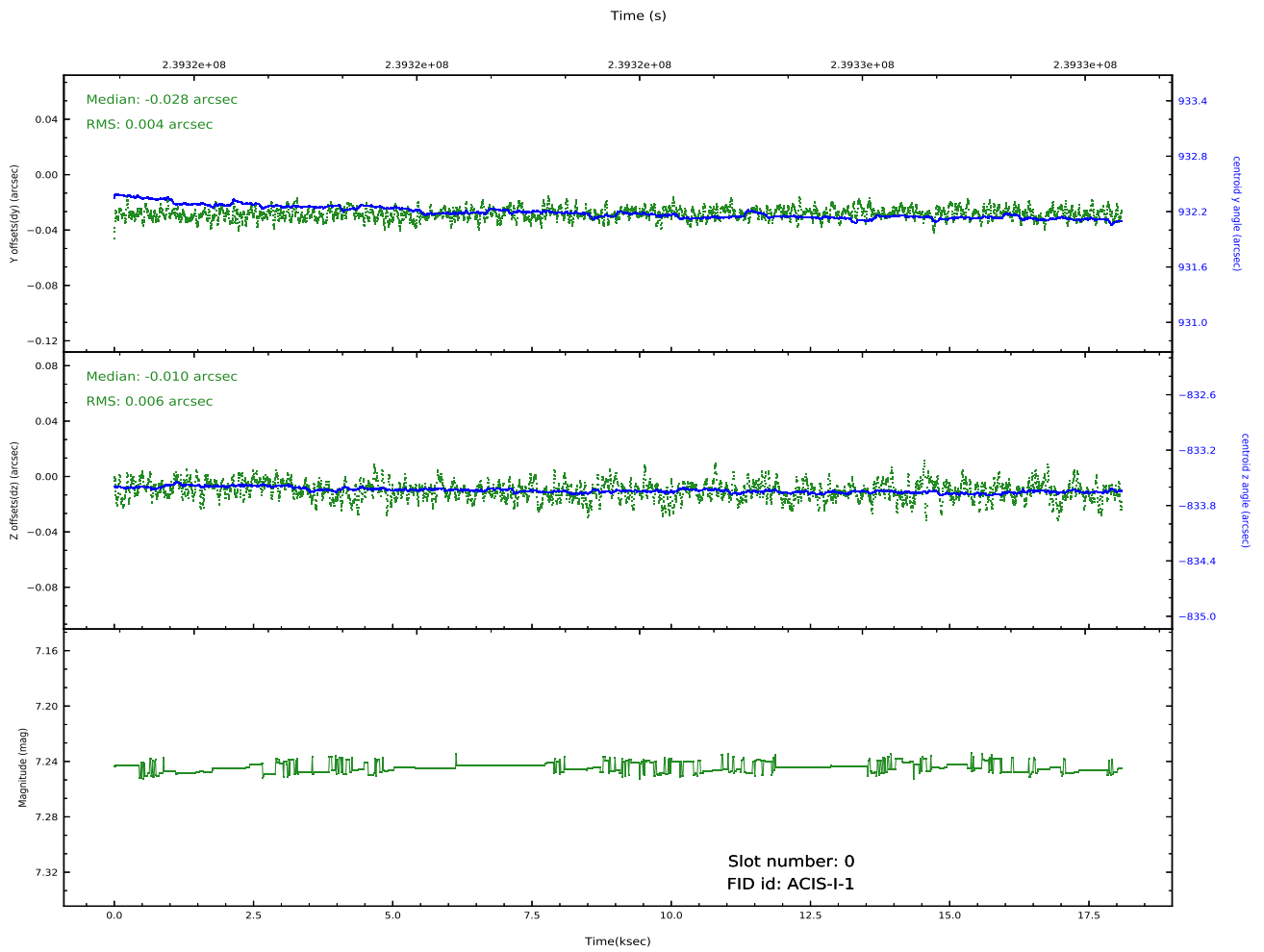
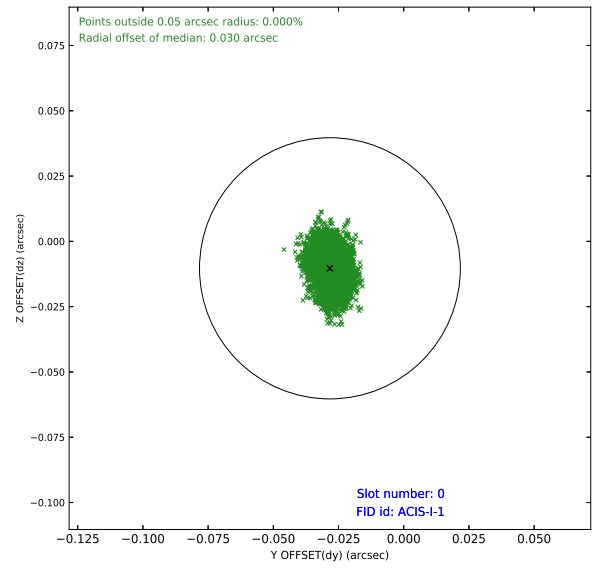
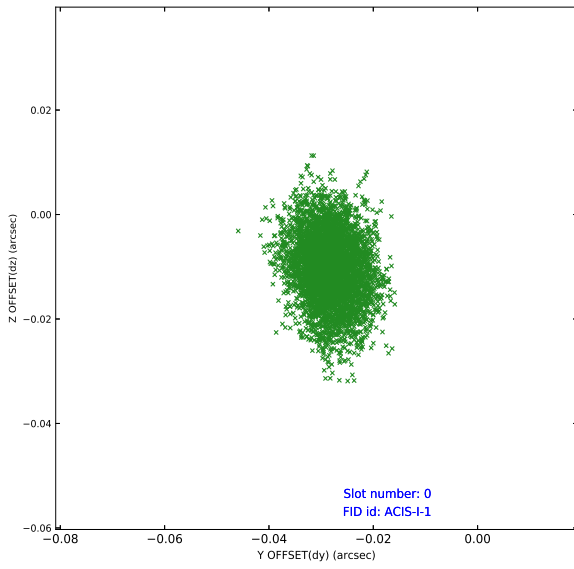


## 2.4.5 Slot 7

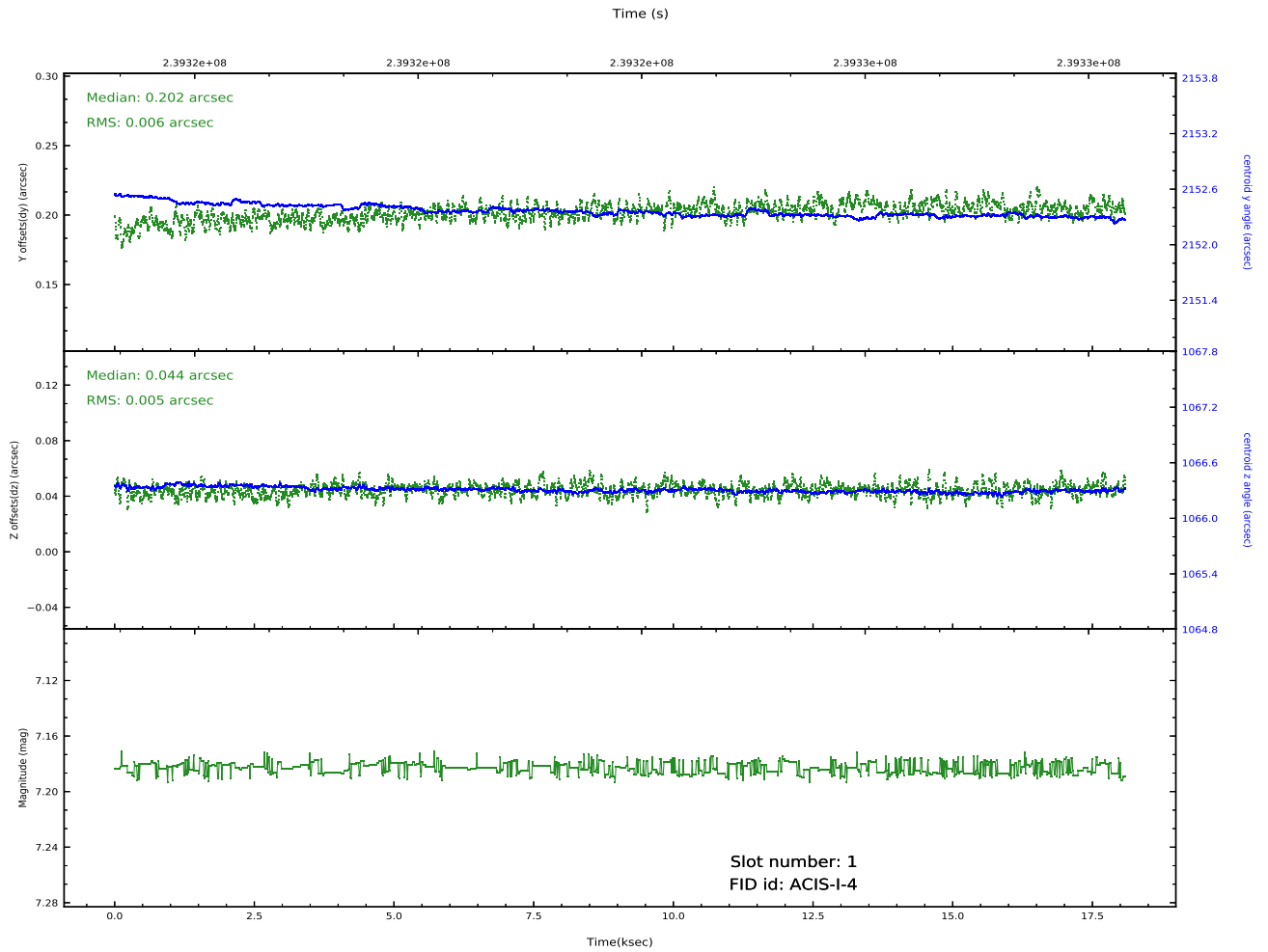
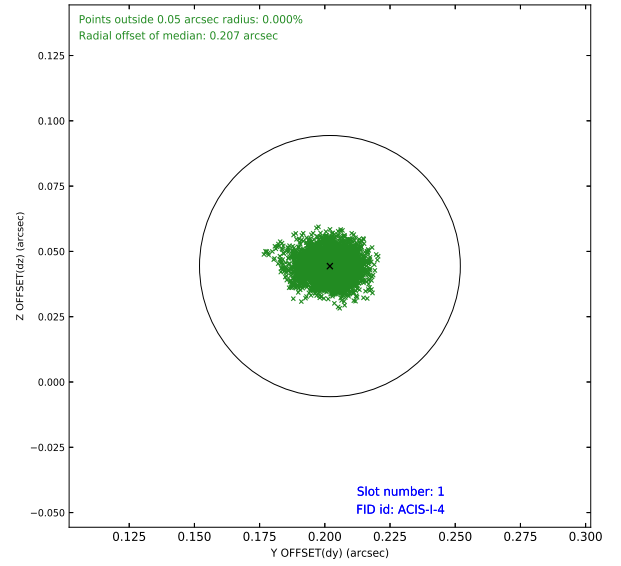
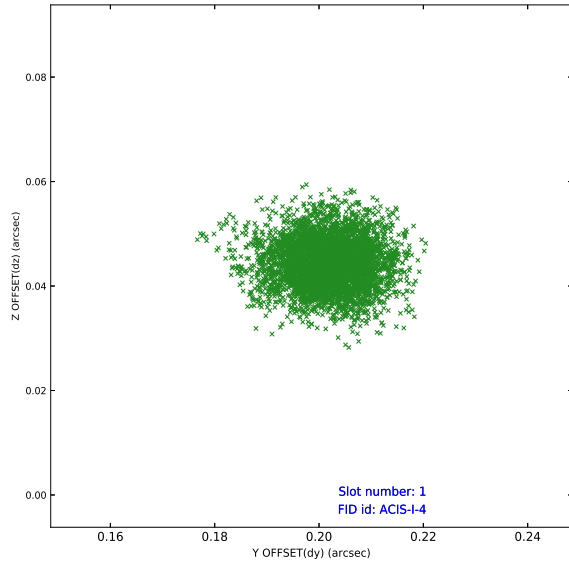


## 2.5 FID Slots

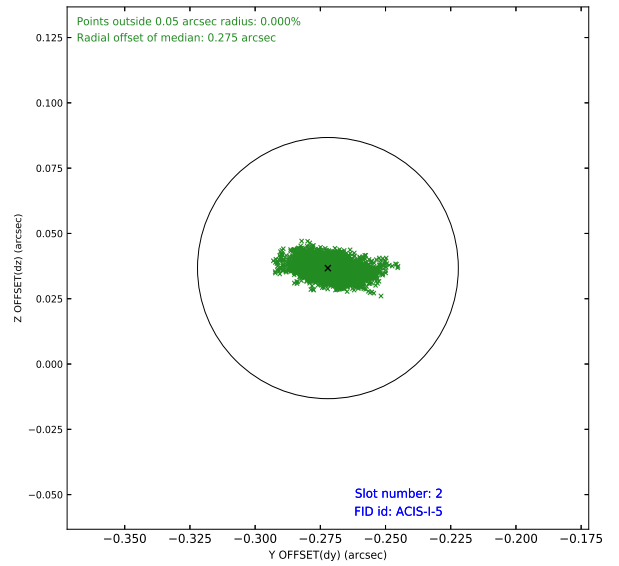
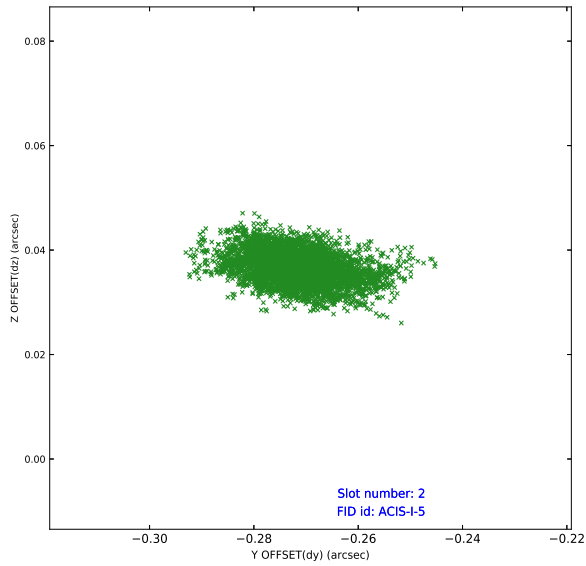
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



# A Summary

## A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2020.10.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	18.30859

## A.2 Comments

Charge time for this observation remains at previous value of 18.30859 ksec, although with the current processing the charge time would have been 18.0605 ksec.

===

This observation was interrupted by safing of the science instruments due to high solar radiation environment. The observation was interrupted at 2005:214:01:16.

===

Window constraint met.