

# V&V Reference Report

## L2 ASCDS Version : 10.9.1

Observation 6345 - L2 Version 4  
Chandra X-Ray Center

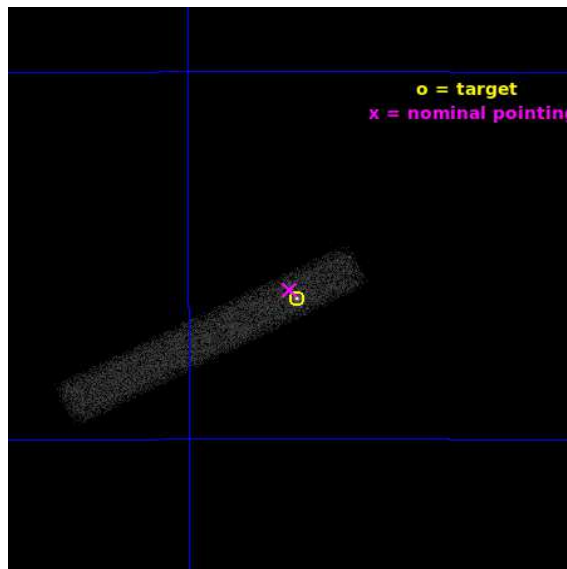
L2 Processing Date : Oct 9 2020

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# 1 Front

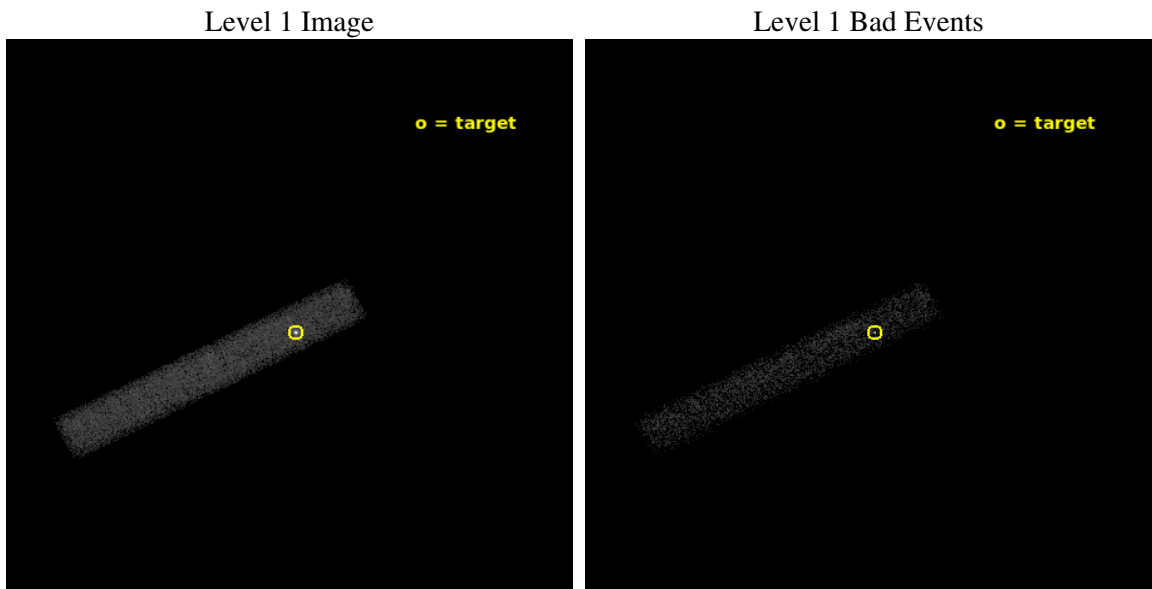
seq_num	500569	Sequence number
obs_id	6345	Observation id
title	Chandra AO6 Monitoring Images of SNR1987A	Proposal title
observer	David Burrows	Principal investigator
object	SN 1987A	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	83.866667	Observer's specified target RA [deg]
dec_targ	-69.26975	Observer's specified target Dec [deg]
ra_nom	83.874688955599	Nominal RA [deg]
dec_nom	-69.265834174228	Nominal Dec [deg]
roll_nom	153.15331195568	Nominal Roll [deg]
revision	4	Processing version of data
ontime	23145.600344867	Sum of GTIs [s]
livetime	20991.837787835	Livetime [s]
ontime7	23145.600344867	Sum of GTIs [s]
l2events	29539	Number of level 2 events



## 2 OBI

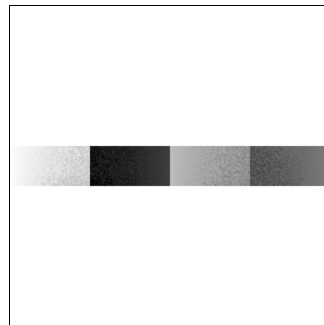
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	23000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	23145.600344867	Sum of GTIs [s]
caldbver	4.9.2	&#160	ontime7	23145.600344867	Sum of GTIs [s]
date	2020-10-09T12:50:07	Date and time of file creation	l1events	48390	Number of level 1 events
revision	4	Processing version of data			

### 2.1.4 Events

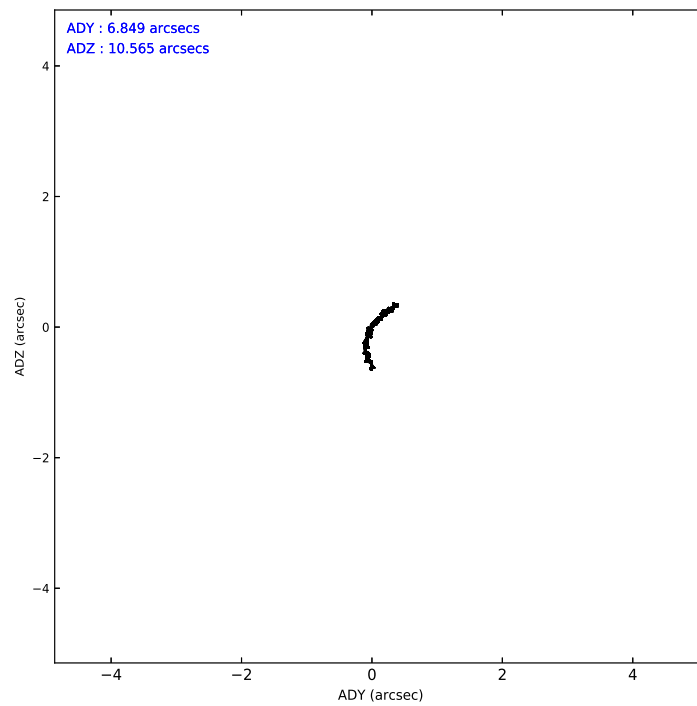
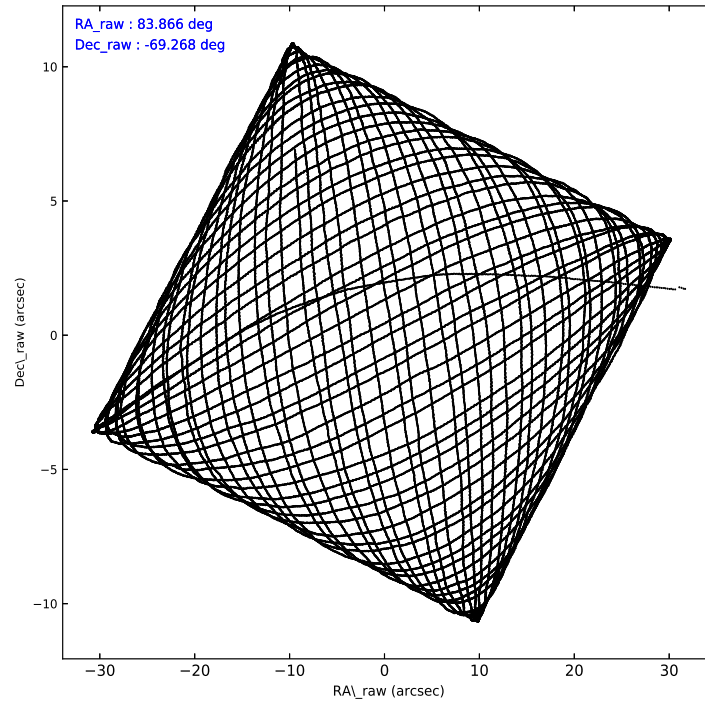
	<b>ccd 7</b>
level 1 events	48390
rejected events	18259
rejected %	<b>37%</b>

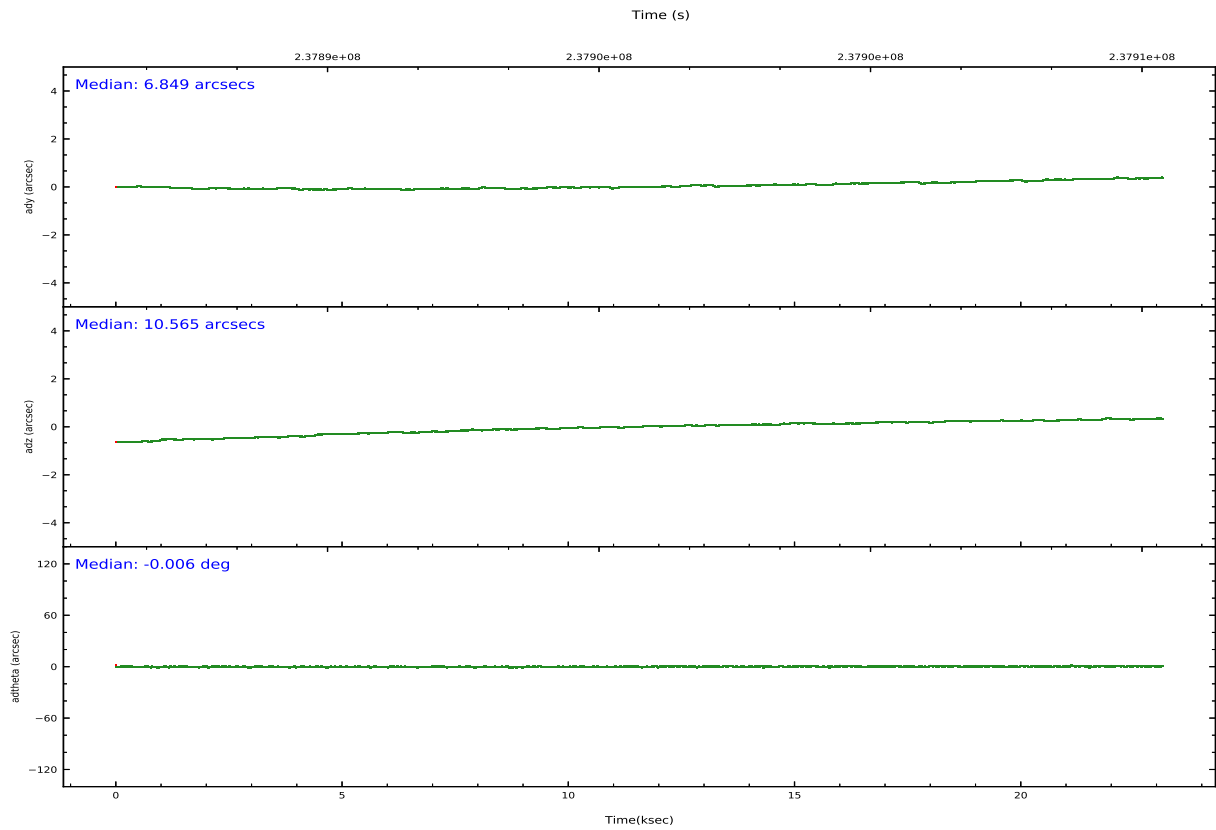
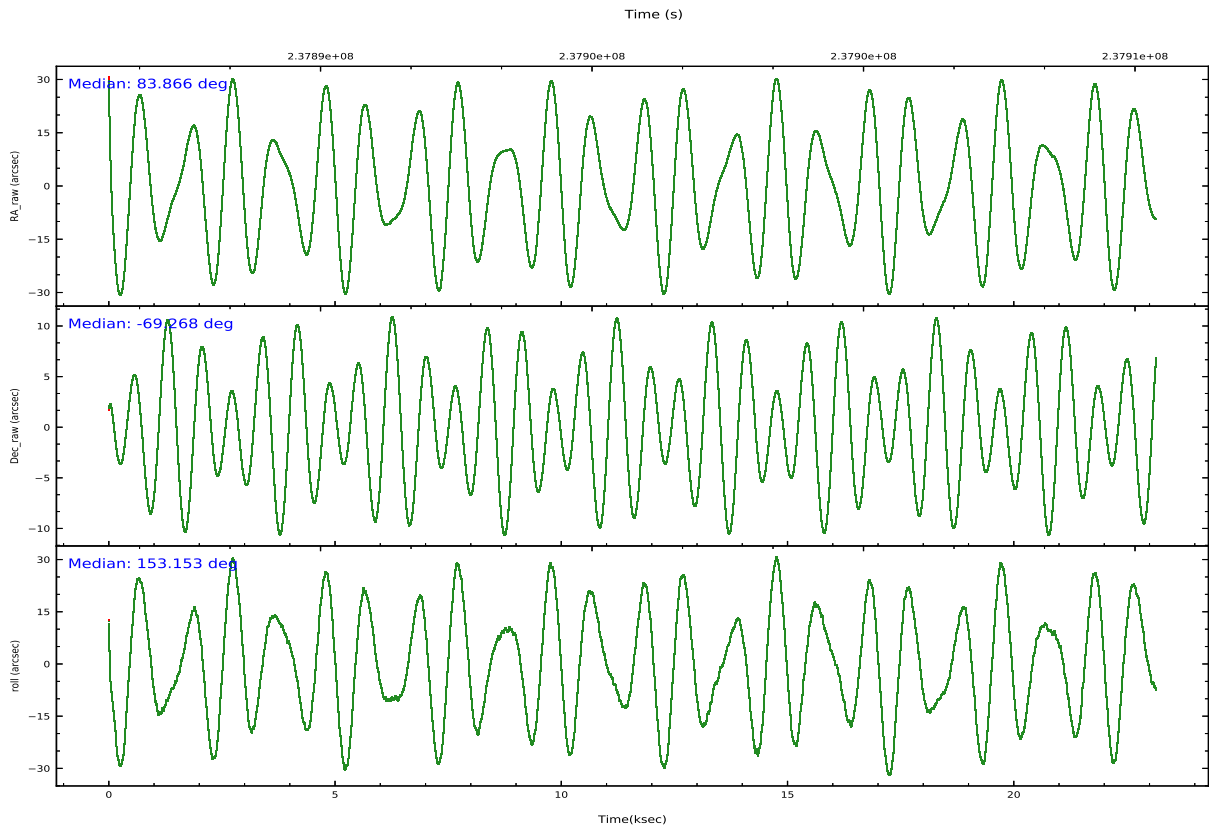
	<b>ccd 7</b>
grade 0 events	6448
	13%
grade 1 events	138
	0%
grade 2 events	7147
	14%
grade 3 events	3680
	7%
grade 4 events	3736
	7%
grade 5 events	3225
	6%
grade 6 events	9612
	19%
grade 7 events	14404
	29%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-7	ACIS-7	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	83.942415	83.874688955599	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	-69.265824	-69.265834174228	Subarray start row	449	449
[deg] Pointing Roll	153.070847	153.15331195568	Subarray row count	128	128
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	0.4
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	237887467.184000	237886488.0575			
Observation start date	2005-07-16T07:50:03	2005-07-16T07:34:48			
[s] Observation end time (MET)	237910467.184000	237911412.47114			
Observation end date	2005-07-16T14:13:23	2005-07-16T14:30:12			
Read mode	TIMED	TIMED			

## 2.3 Aspect





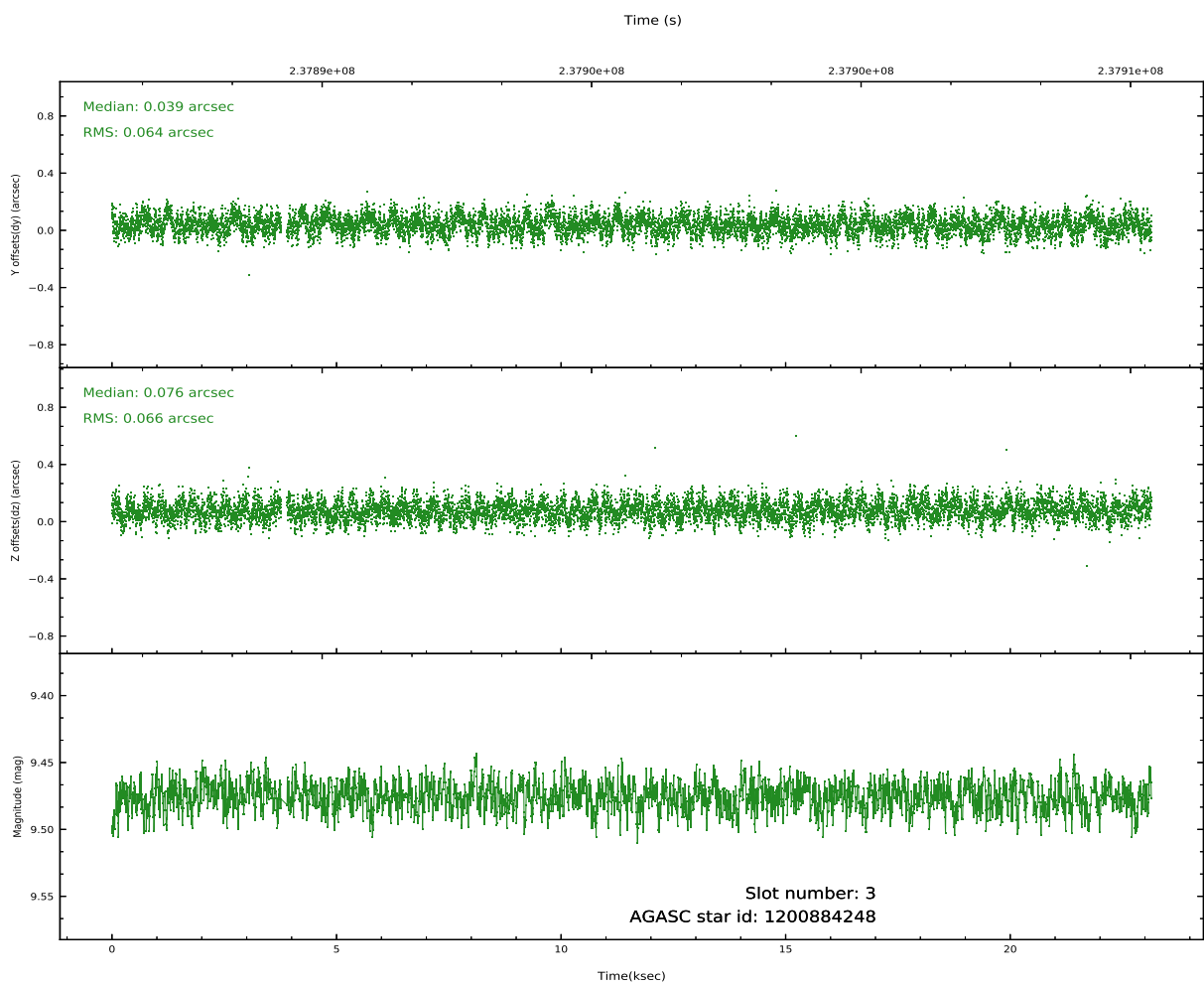
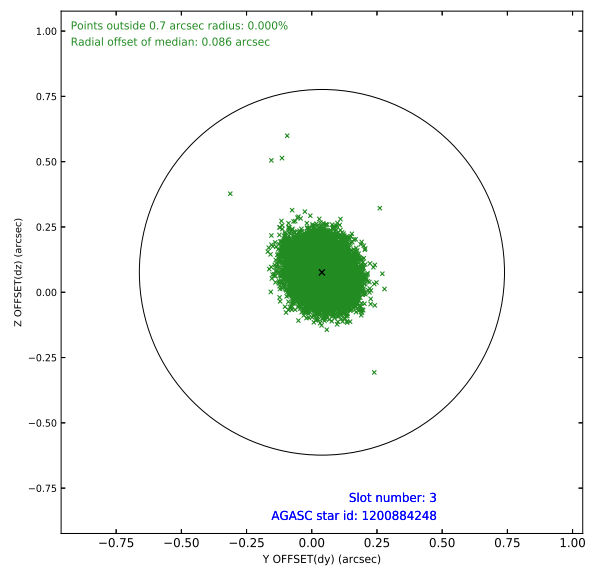
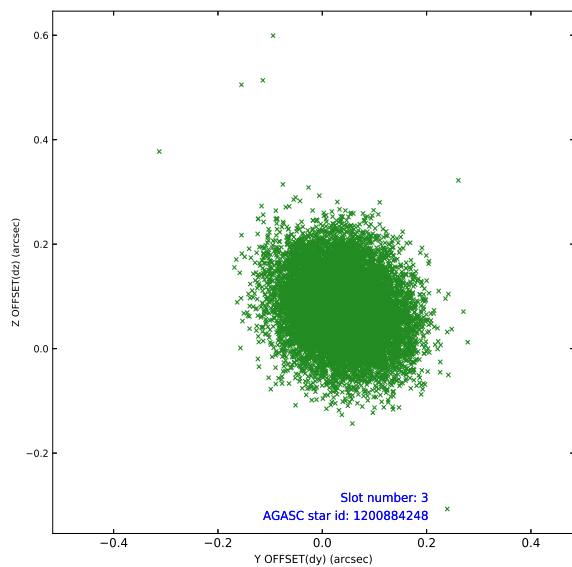
### Slot Statistics

slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-1	7.18	5646	1.000	-0.002	-0.086	0.019	0.031	0.000000	0.000000	936.41	-1727
1	FID		ACIS-S-4	7.21	5645	1.000	0.119	0.066	0.012	0.022	0.000000	0.000000	2153.97	176
2	FID		ACIS-S-5	7.23	5646	1.000	-0.145	0.033	0.010	0.015	0.000000	0.000000	-1812.47	170
3	GUIDE	used	1200884248	9.48	11227	1.000	0.039	0.076	0.099	0.155	83.880915	-68.565170	1214.94	-2211
4	GUIDE	used	1201020040	8.59	11290	1.000	-0.018	0.065	0.071	0.110	85.379163	-68.879396	-1040.83	-2064
5	GUIDE	used	1201542672	8.20	11289	1.000	0.014	-0.077	0.065	0.108	84.492488	-69.957531	-1734.34	1914
6	GUIDE	used	1201019672	6.83	11292	1.000	-0.087	-0.030	0.042	0.067	85.312192	-68.770187	-792.58	-2381
7	GUIDE	used	1201540776	9.59	11256	1.000	0.050	-0.035	0.103	0.169	85.107945	-69.858480	-2260.67	1260

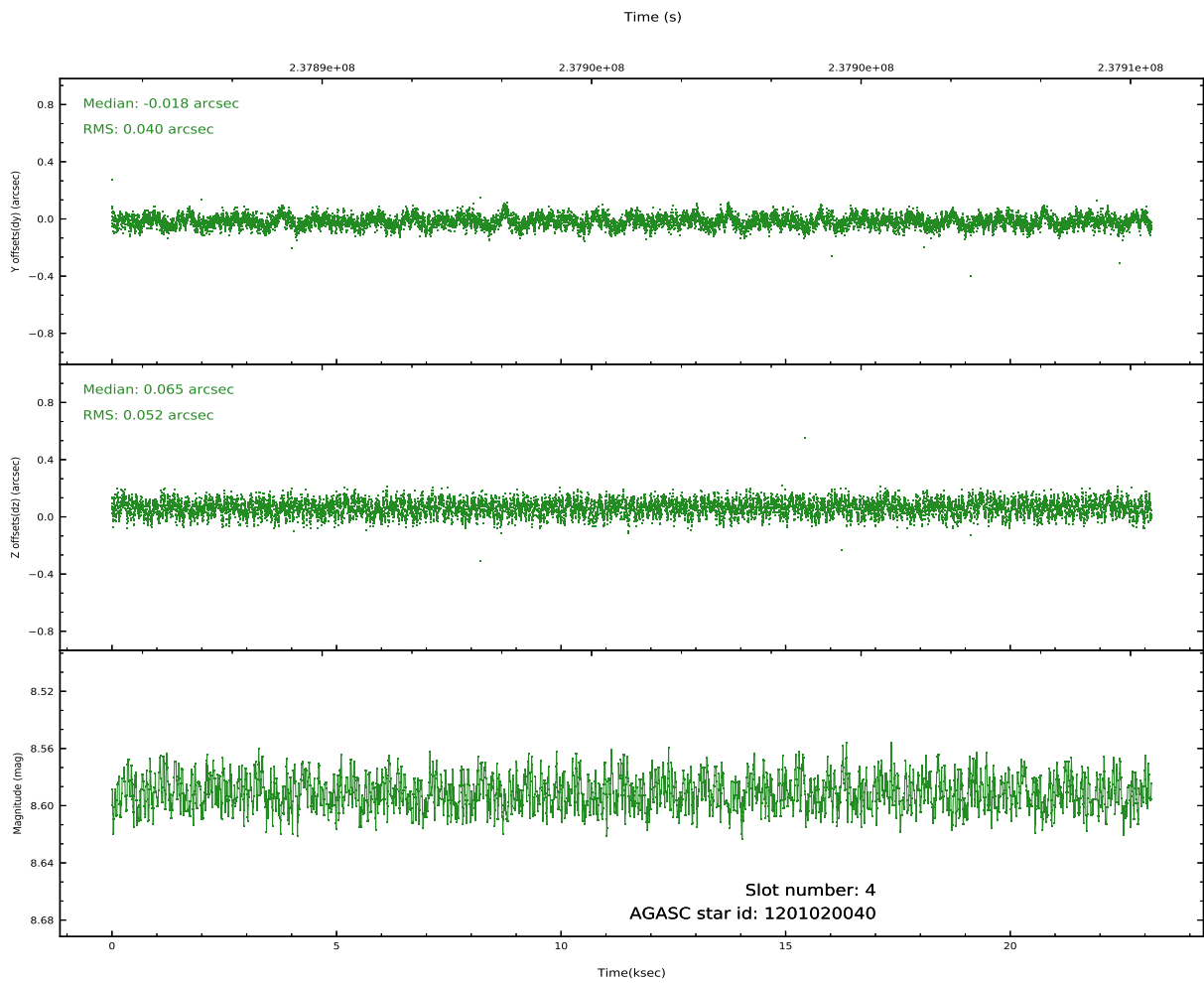
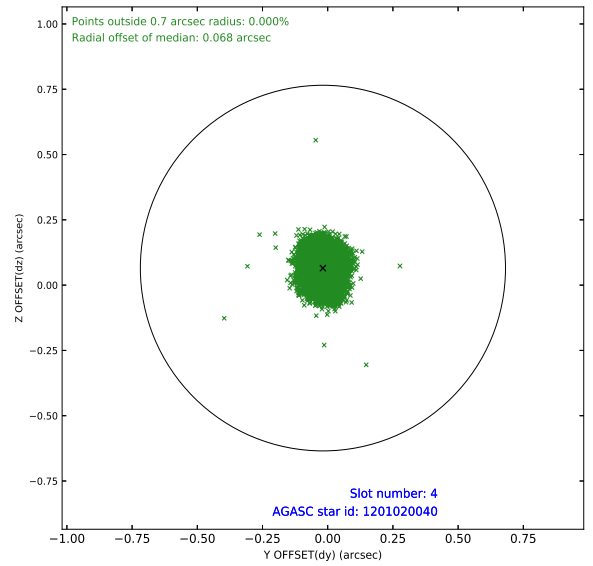
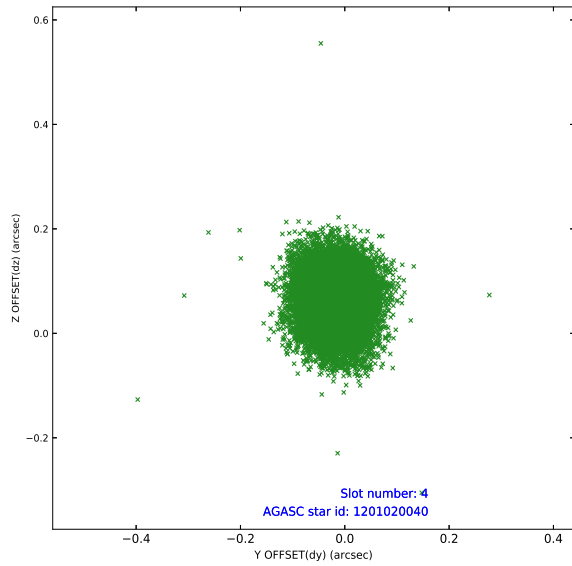
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## 2.4 Star Slots

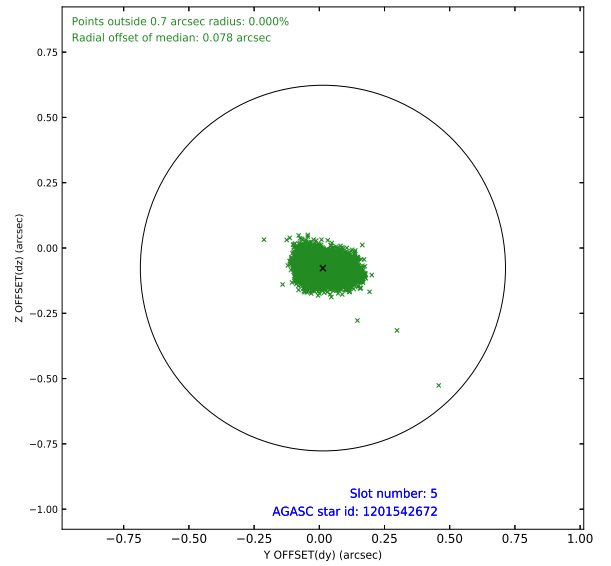
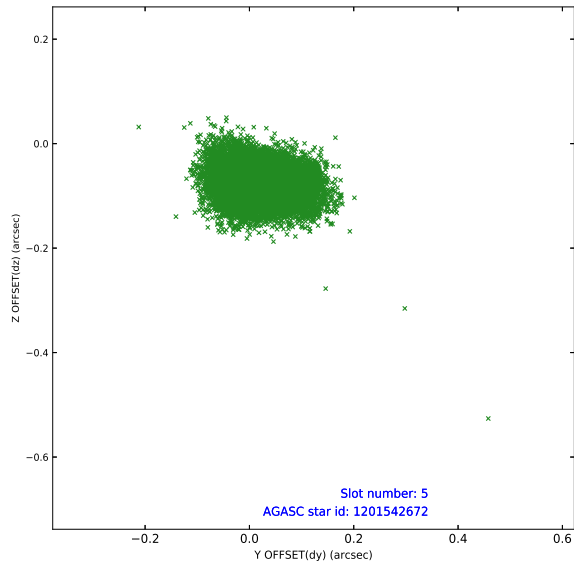
### 2.4.1 Slot 3



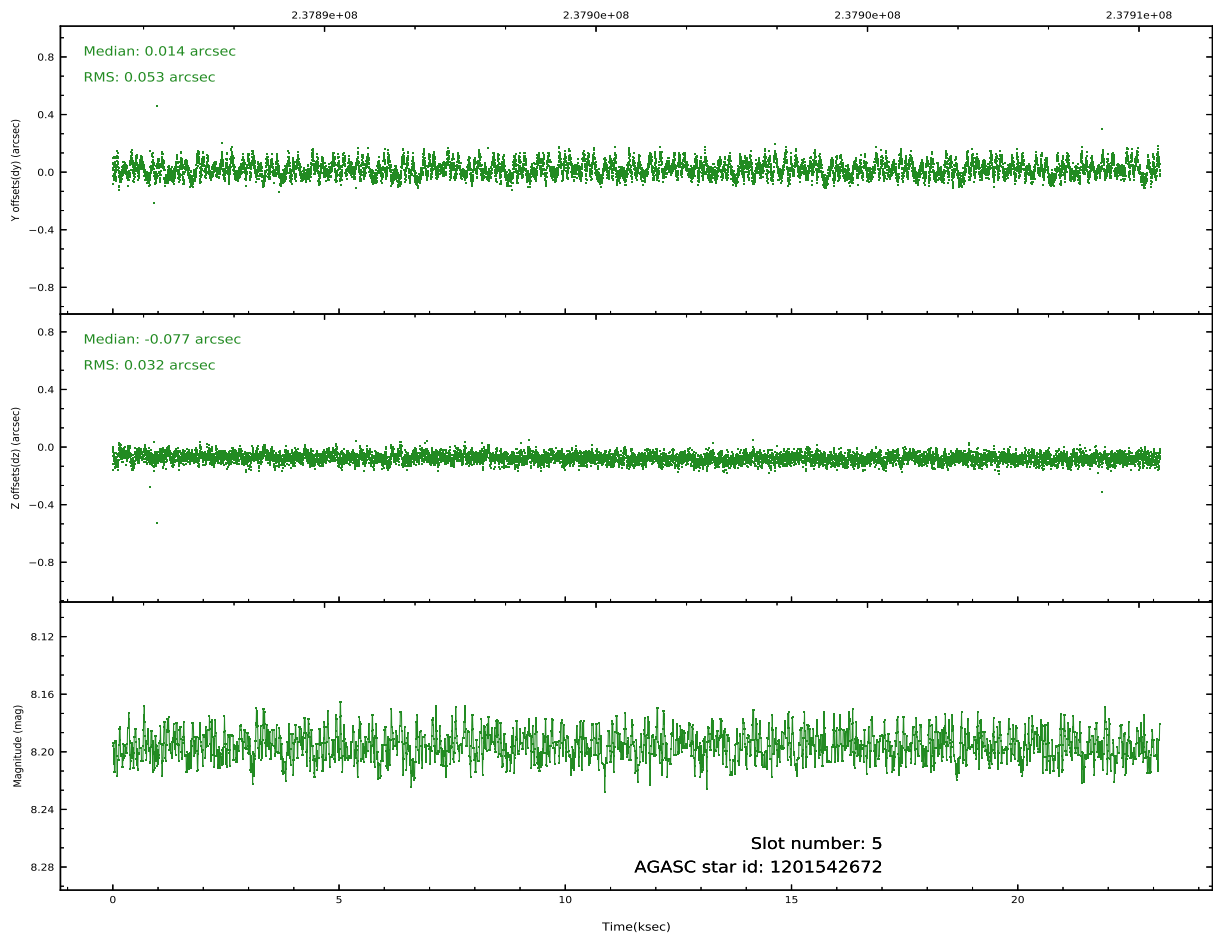
## 2.4.2 Slot 4



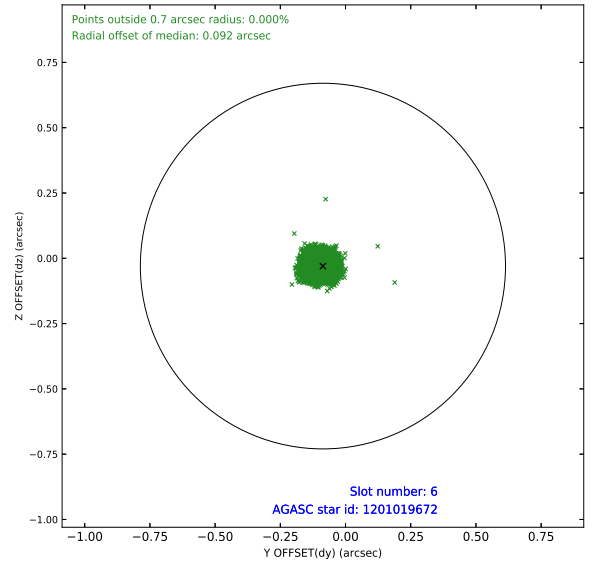
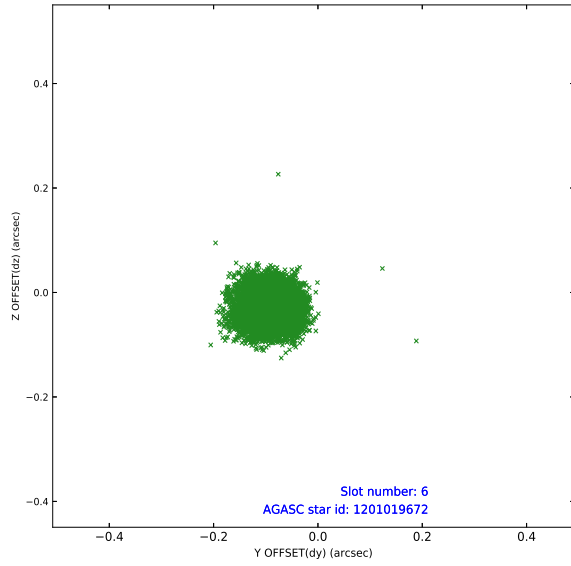
### 2.4.3 Slot 5



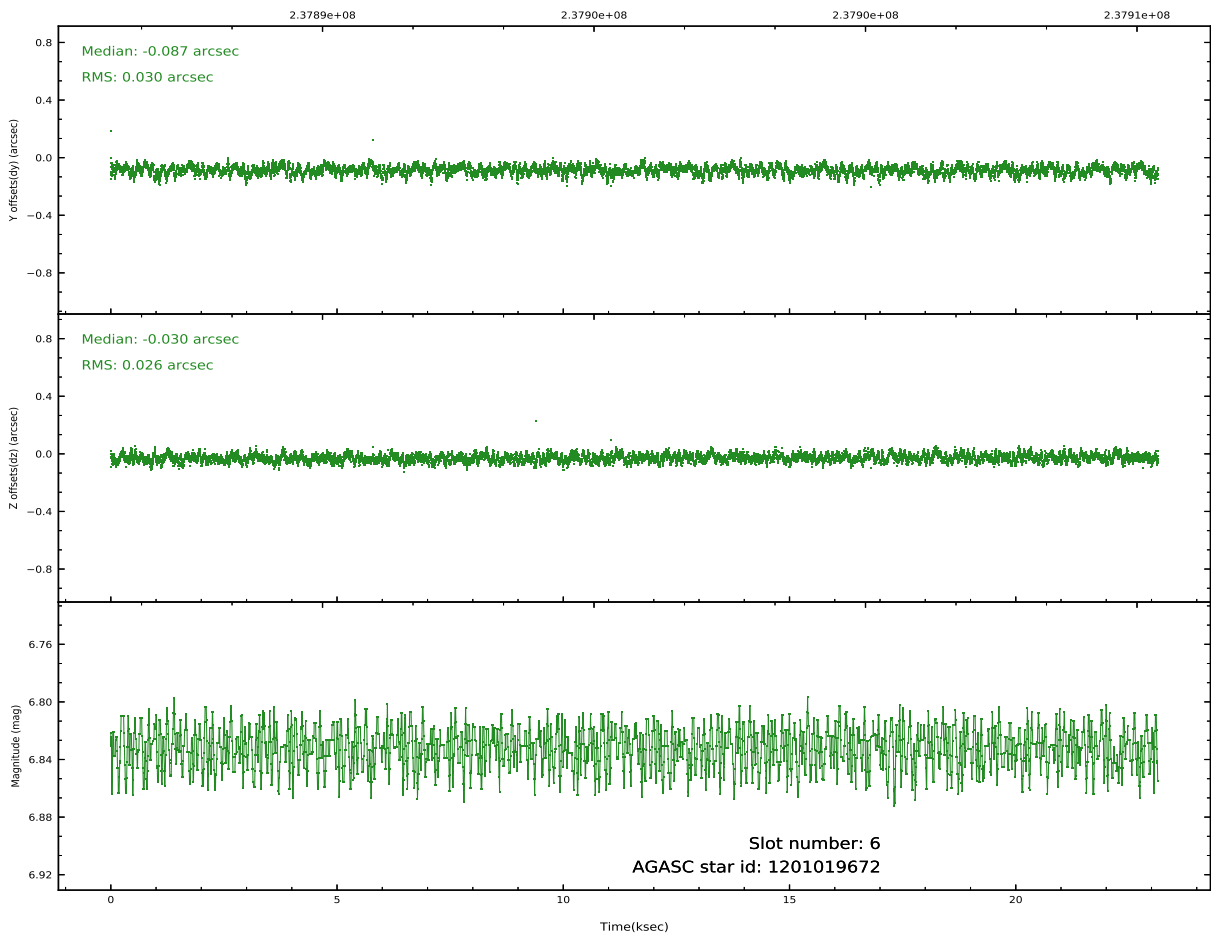
Time (s)



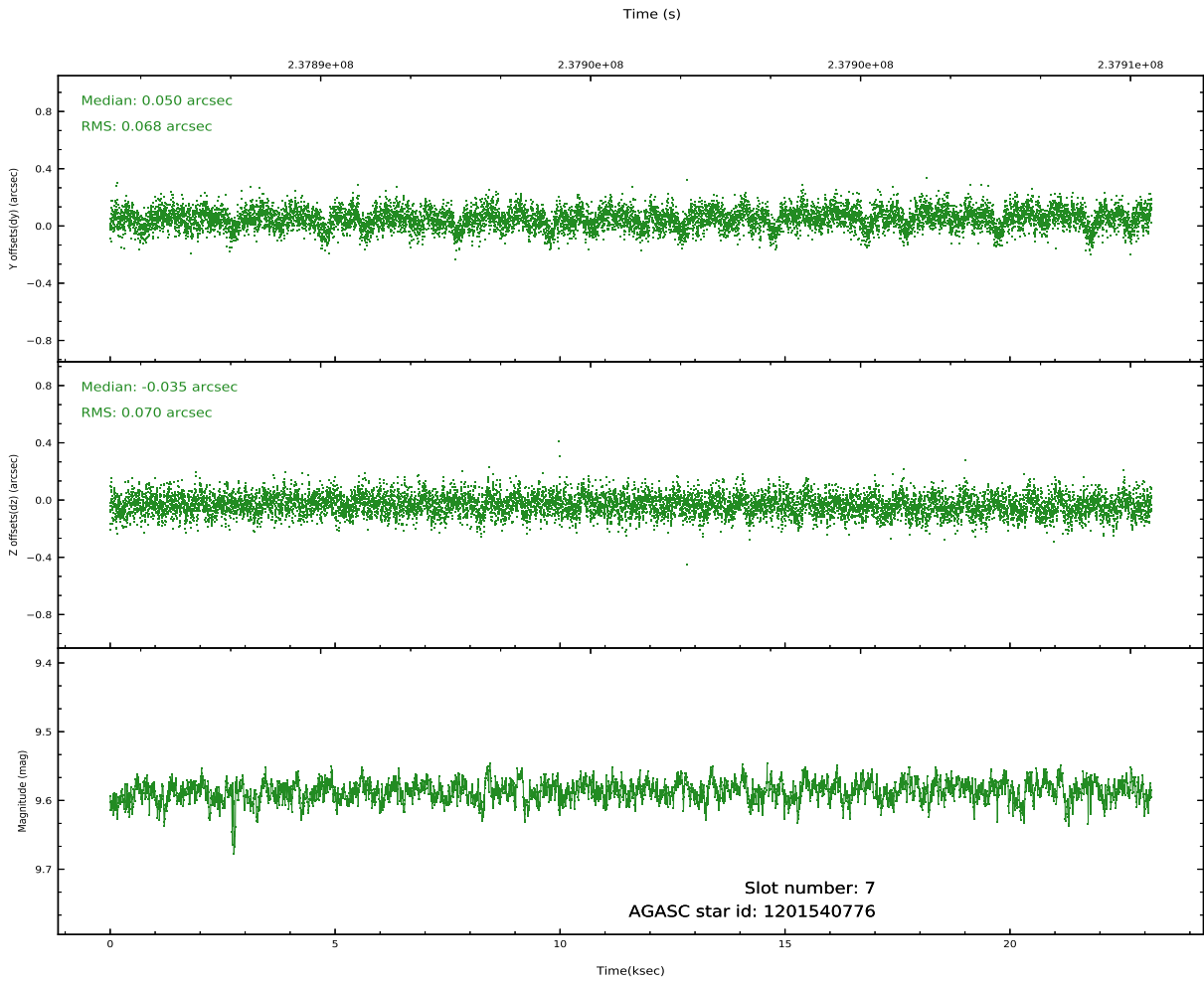
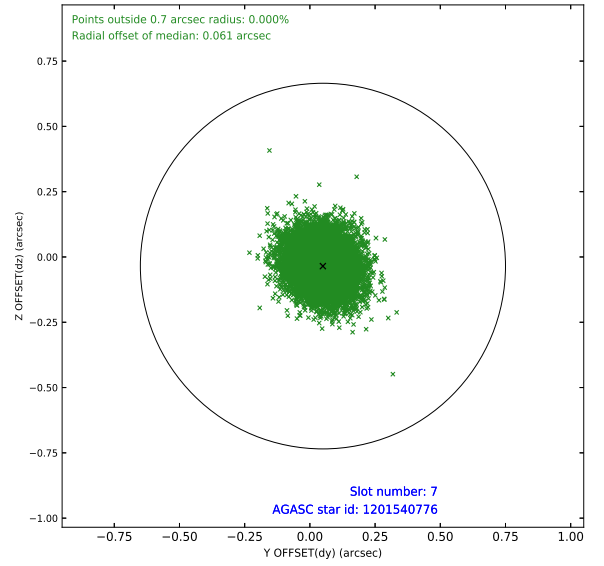
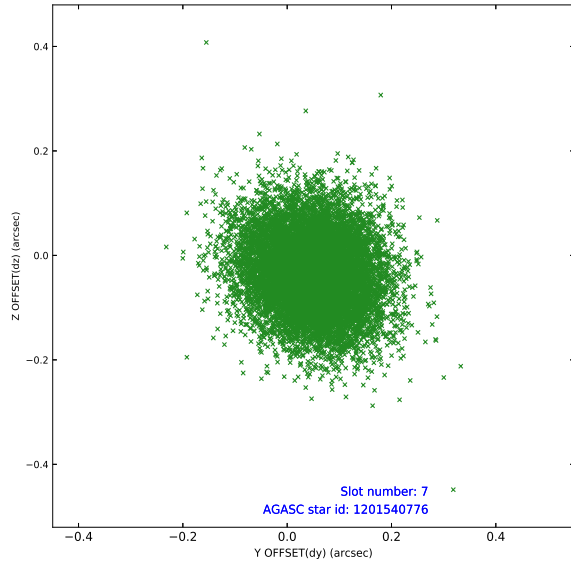
## 2.4.4 Slot 6



Time (s)

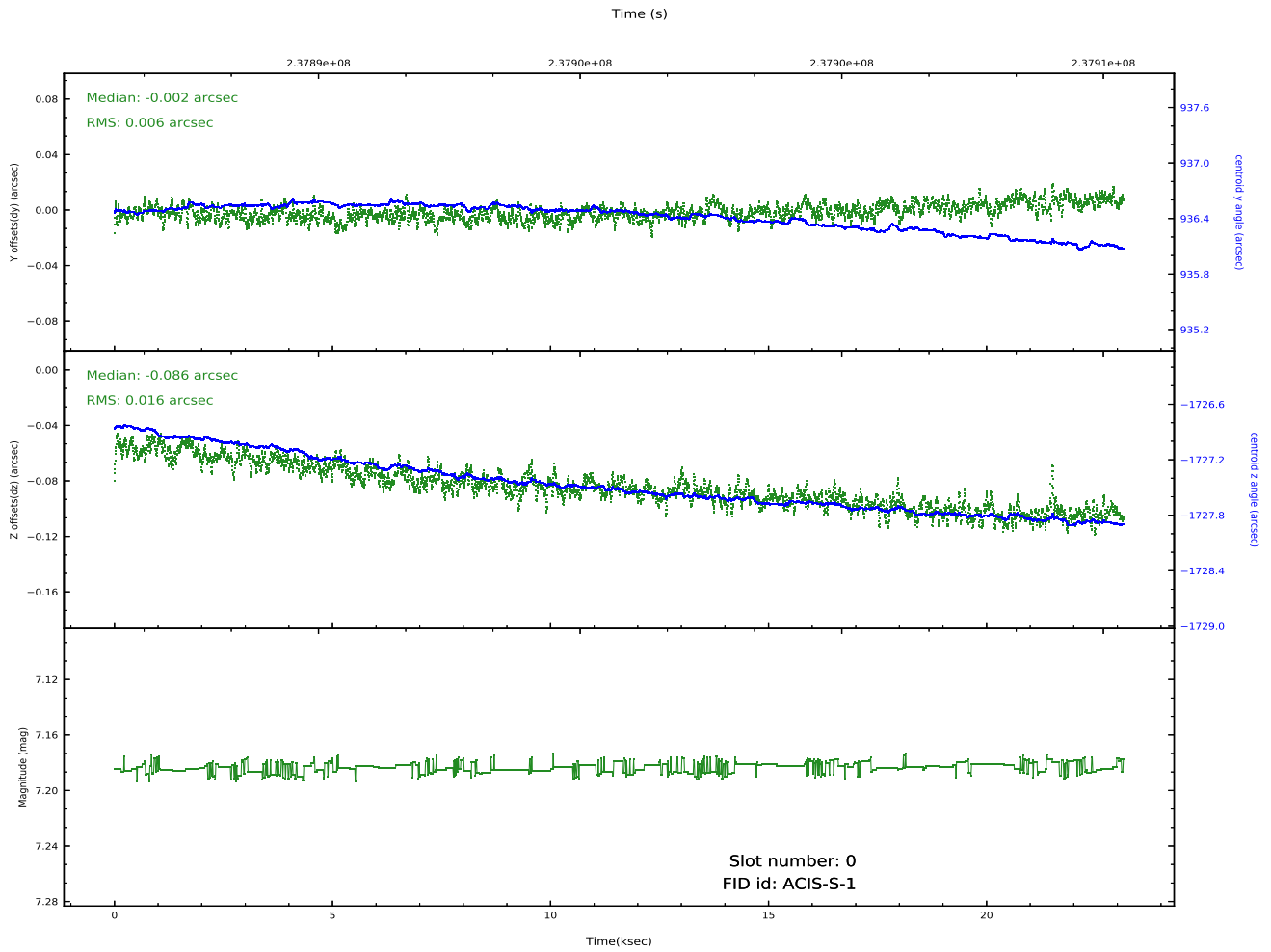
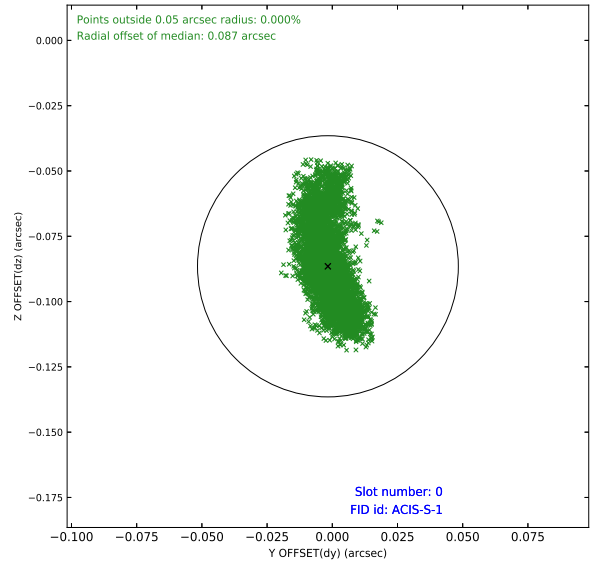
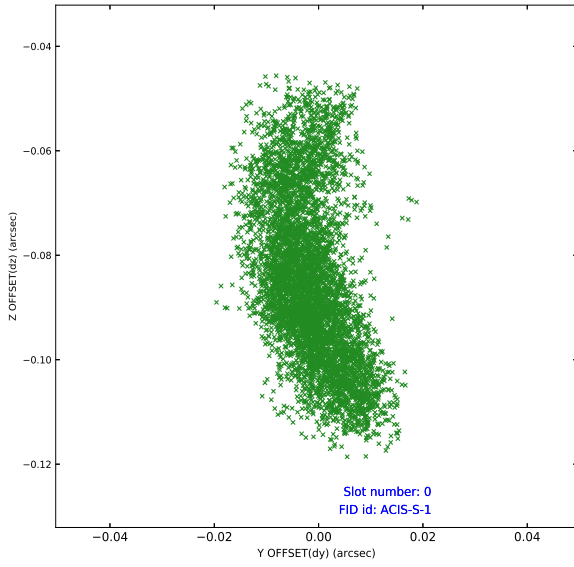


## 2.4.5 Slot 7

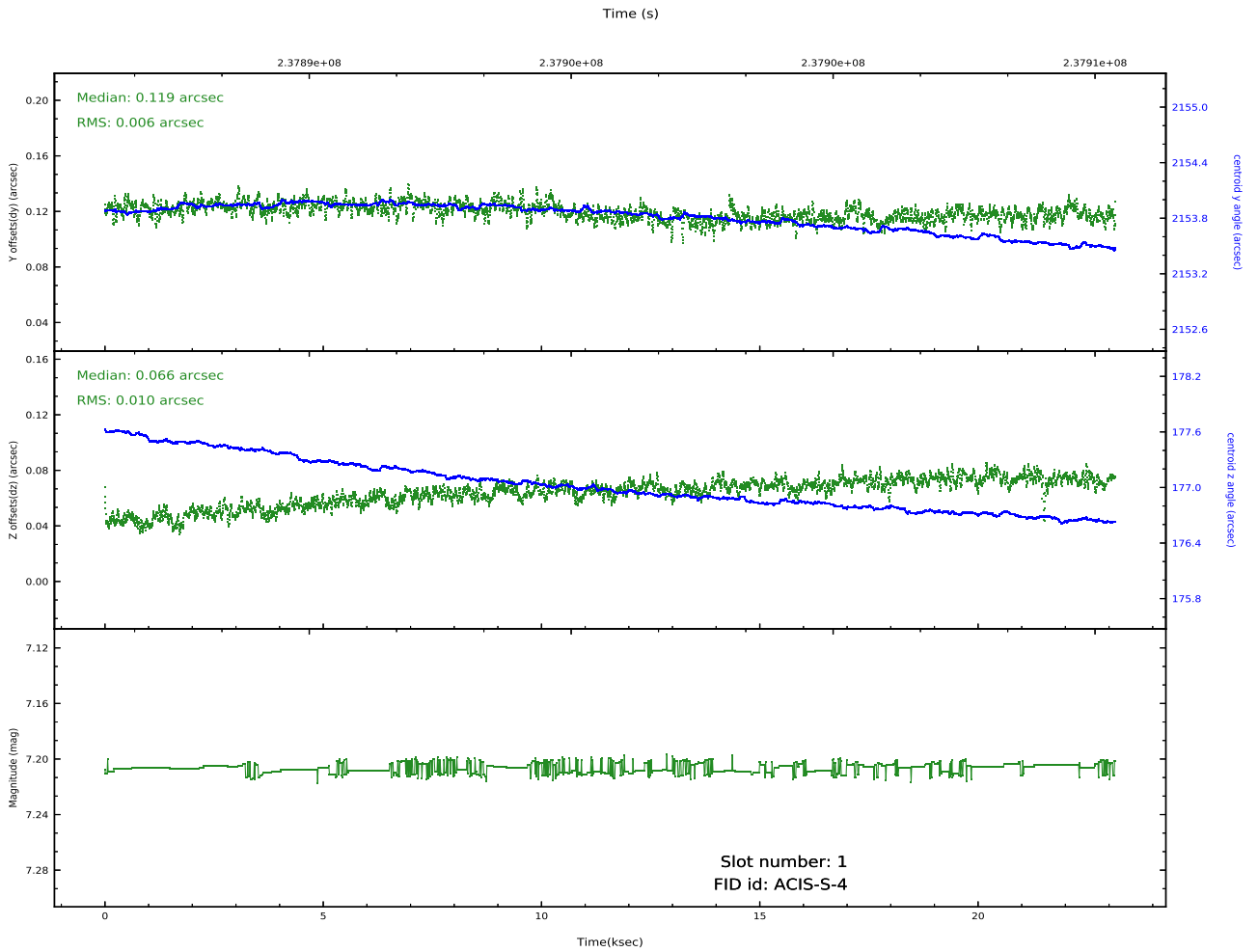
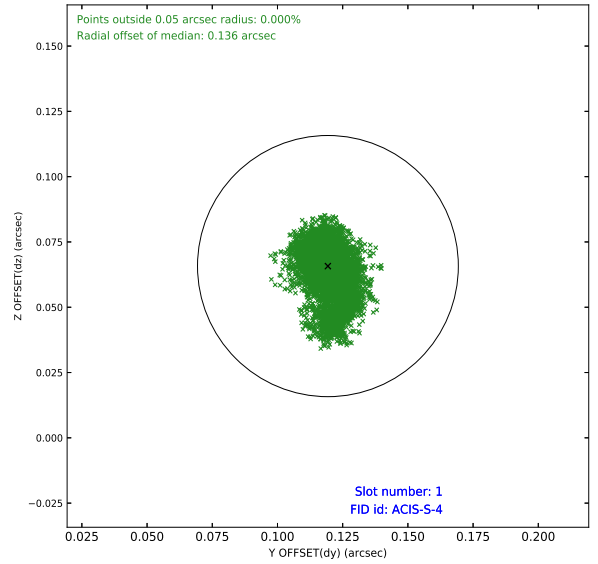
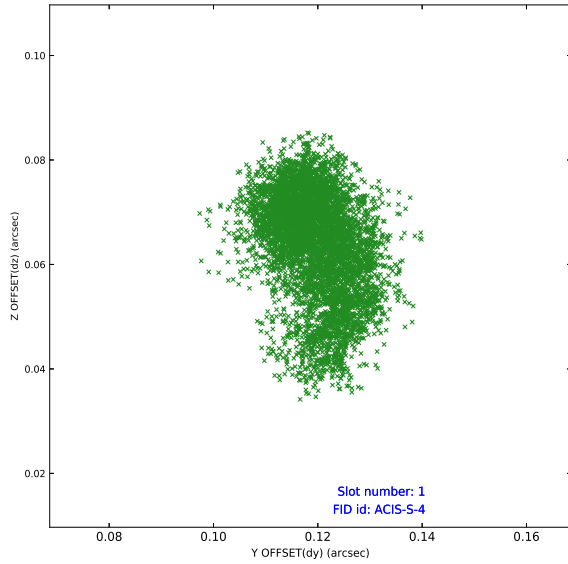


## 2.5 FID Slots

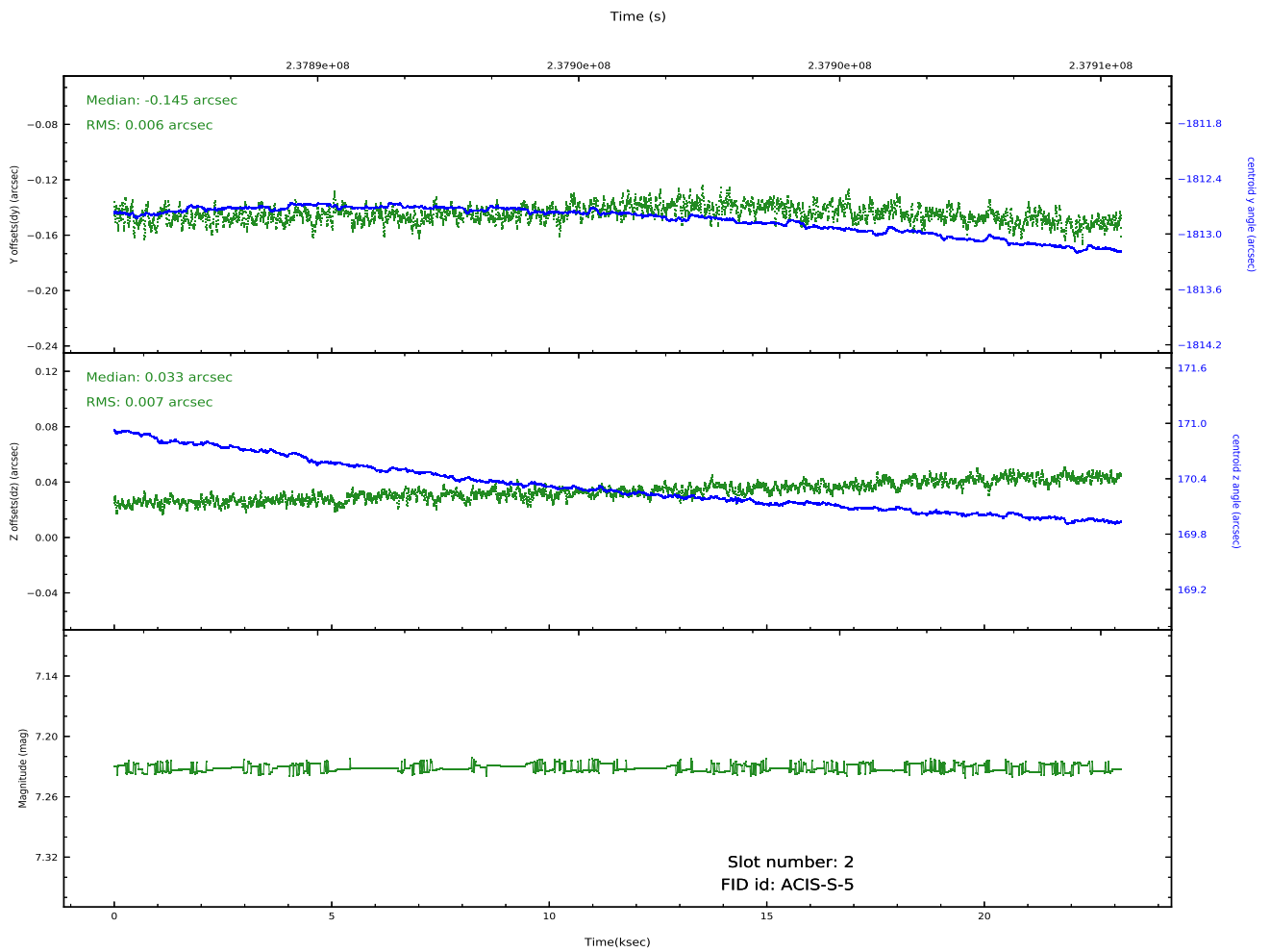
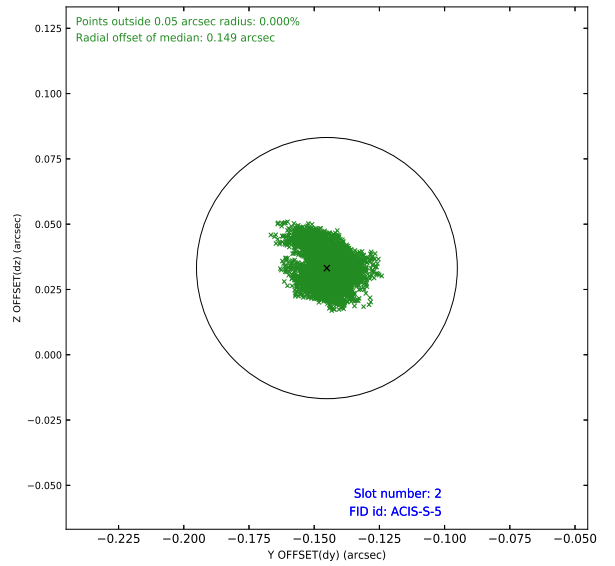
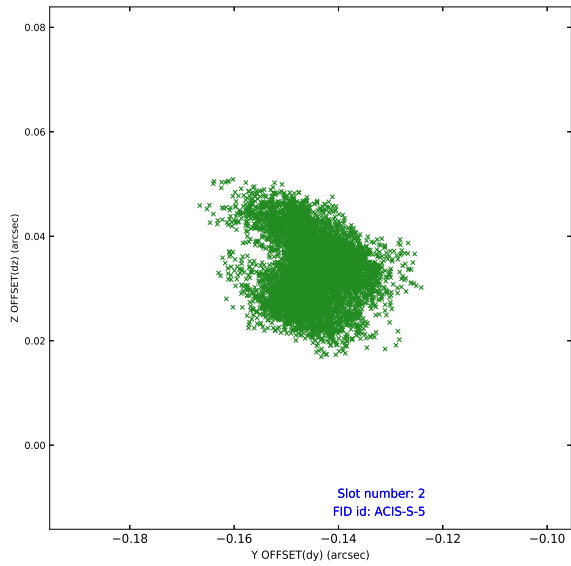
### 2.5.1 Slot 0



## 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	23.1456

## A.2 Comments