

# V&V Reference Report

## L2 ASCDS Version : 10.9.1

Observation 5786 - L2 Version 4  
Chandra X-Ray Center

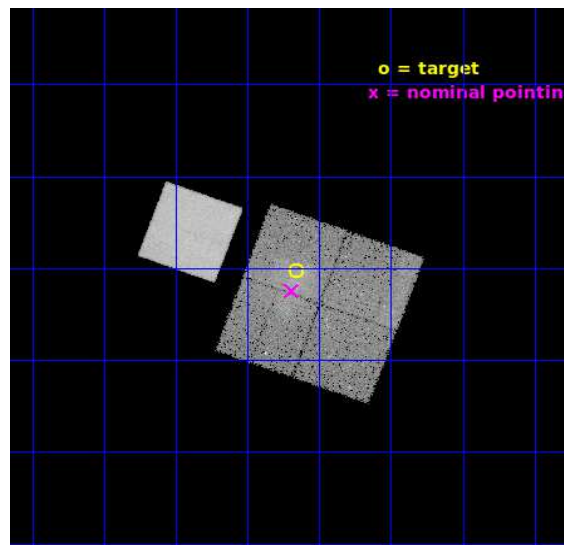
L2 Processing Date : Oct 10 2020

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# 1 Front

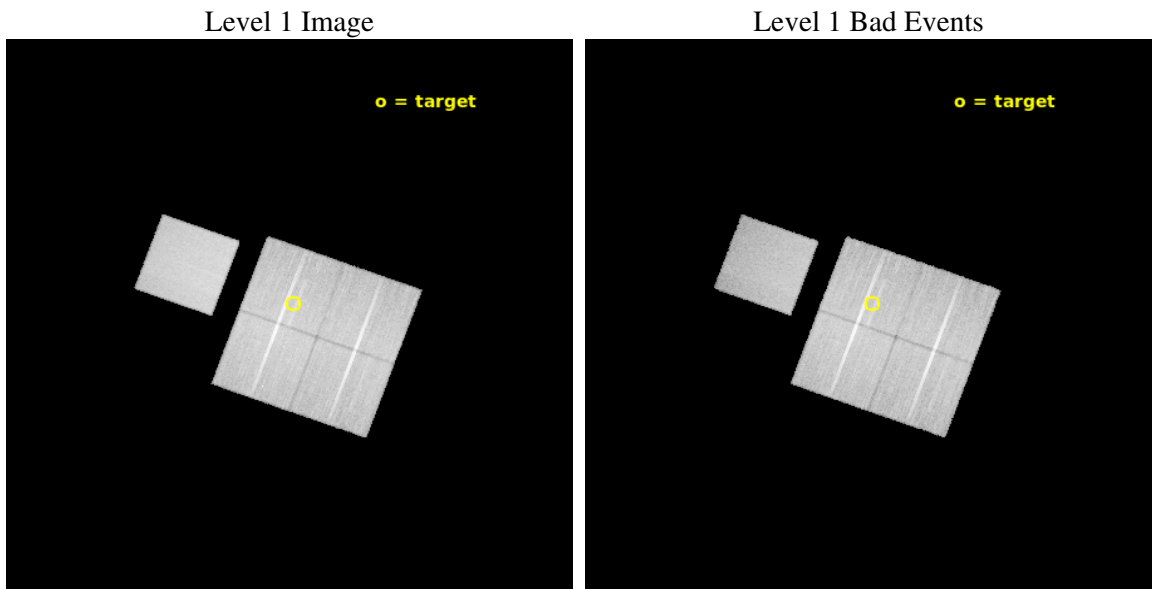
seq_num	800499	Sequence number
obs_id	5786	Observation id
title	The supercluster-scale filament of galaxies ZwCl 2341.1+0000 at z=0.3	Proposal title
observer	Dr Somak Raychaudhury	Principal investigator
object	ZwCl 2341.1+0000	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	355.915	Observer's specified target RA [deg]
dec_targ	0.327861	Observer's specified target Dec [deg]
ra_nom	355.922617885	Nominal RA [deg]
dec_nom	0.29256143304511	Nominal Dec [deg]
roll_nom	290.03826727928	Nominal Roll [deg]
revision	4	Processing version of data
ontime	30175.358941823	Sum of GTIs [s]
livetime	29781.095662472	Livetime [s]
ontime0	30178.499941945	Sum of GTIs [s]
ontime1	30175.358951688	Sum of GTIs [s]
ontime2	30178.499941945	Sum of GTIs [s]
ontime3	30175.358941823	Sum of GTIs [s]
ontime7	30178.499941945	Sum of GTIs [s]
l2events	164285	Number of level 2 events



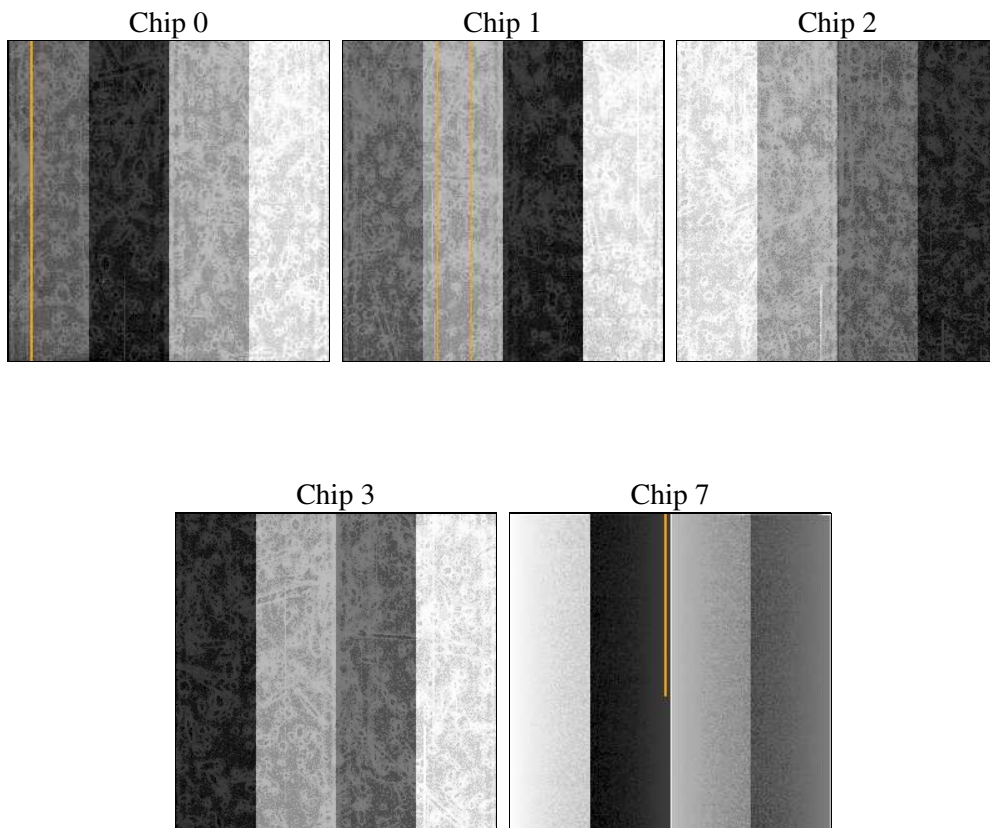
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	30000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	30175.358941823	Sum of GTIs [s]
caldbver	4.9.2	&#160	ontime0	30178.499941945	Sum of GTIs [s]
date	2020-10-11T02:49:32	Date and time of file creation	ontime1	30175.358951688	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	30178.499941945	Sum of GTIs [s]
			ontime3	30175.358941823	Sum of GTIs [s]
			ontime7	30178.499941945	Sum of GTIs [s]
			l1events	1011854	Number of level 1 events

### 2.1.4 Events

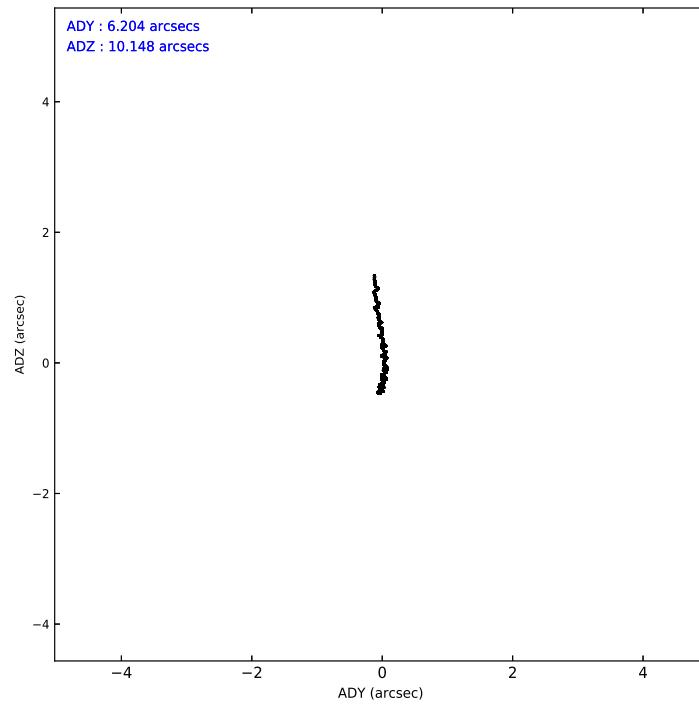
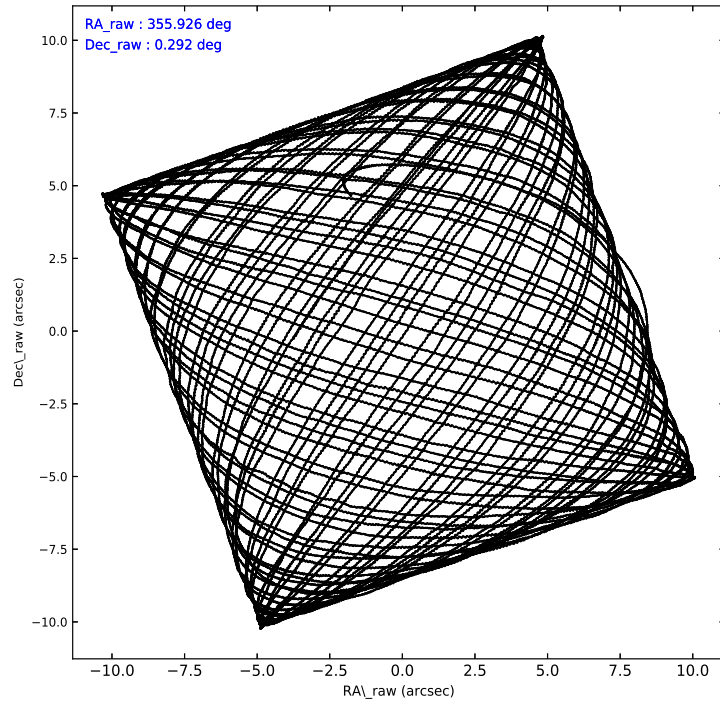
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	185585	190259	212720	198814	224476
rejected events	166322	168211	192033	176956	125946
rejected %	89%	88%	90%	89%	56%

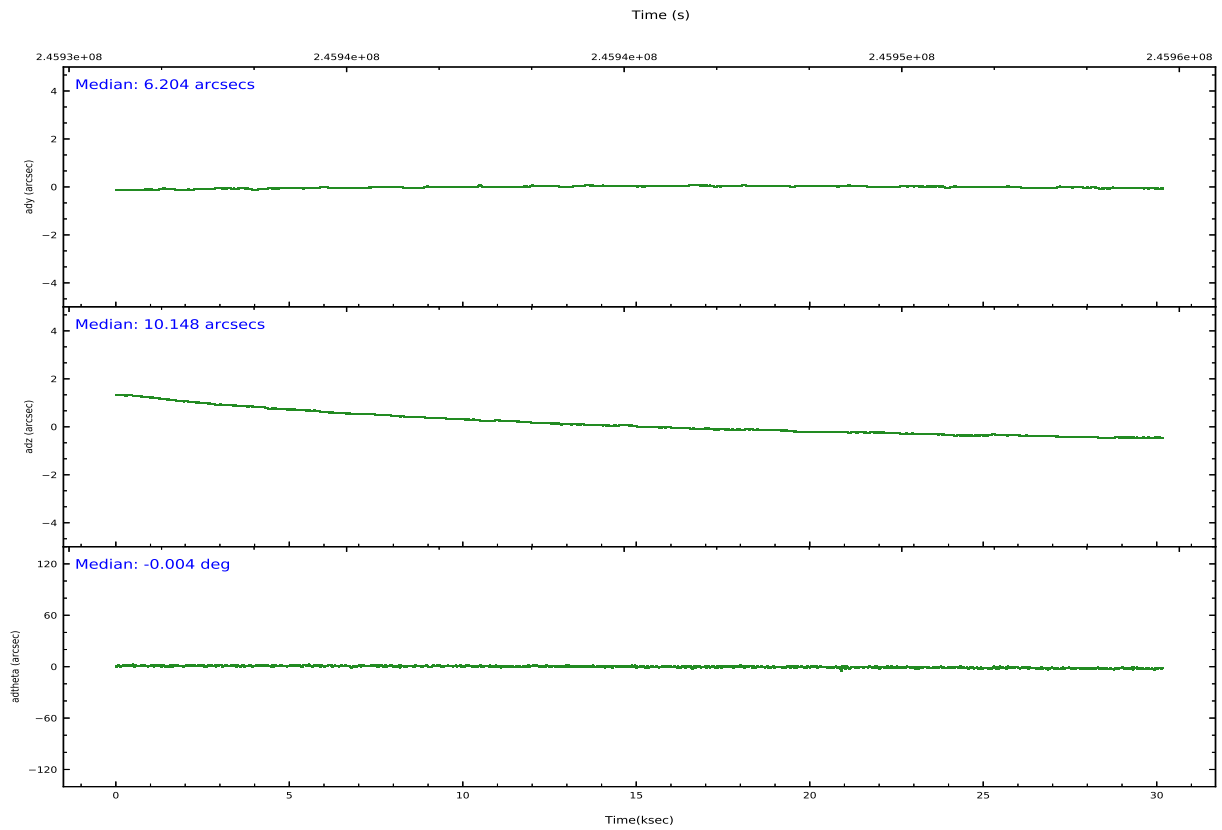
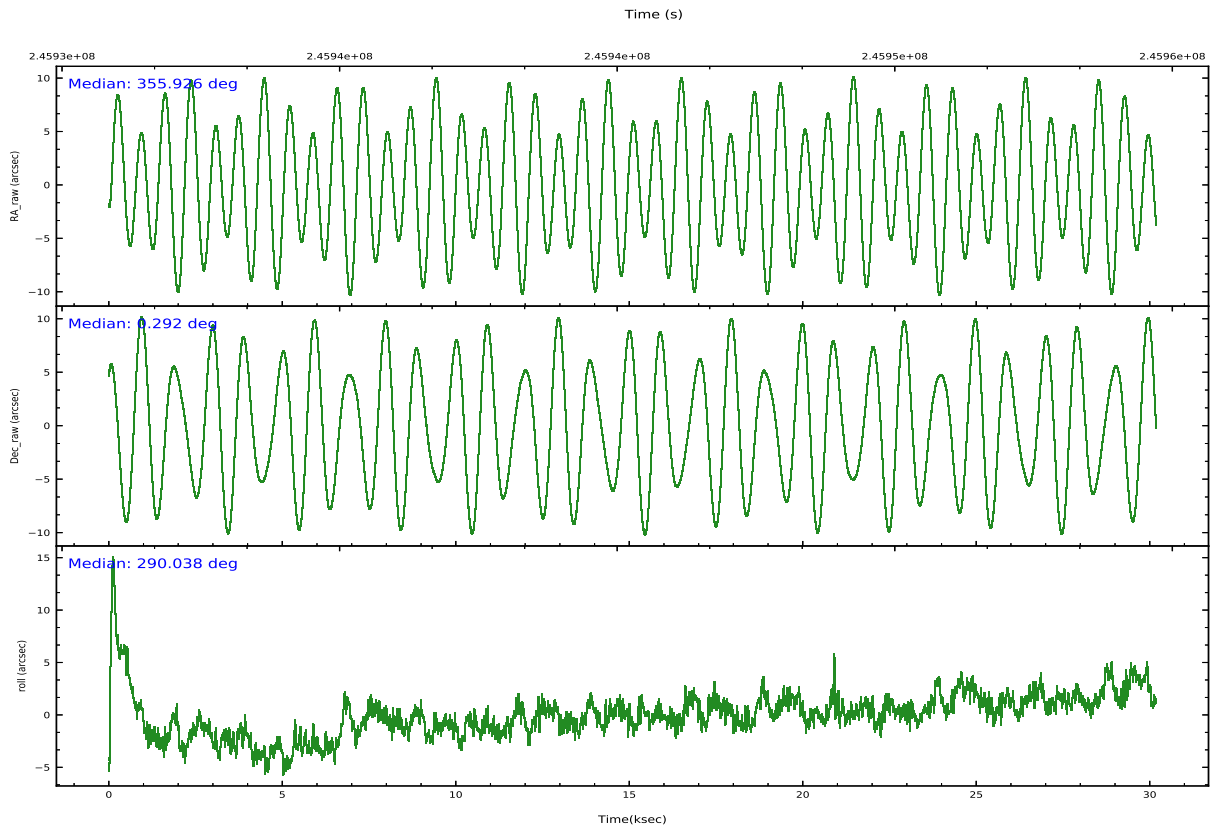
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
grade 0 events	6639	8157	8447	9519	8625
	3%	4%	3%	4%	3%
grade 1 events	121	93	104	107	213
	0%	0%	0%	0%	0%
grade 2 events	4728	4904	4685	4306	19973
	2%	2%	2%	2%	8%
grade 3 events	2252	2494	2085	2272	9413
	1%	1%	0%	1%	4%
grade 4 events	2084	2436	2219	2223	9246
	1%	1%	1%	1%	4%
grade 5 events	6805	7545	6403	8065	23765
	3%	3%	3%	4%	10%
grade 6 events	3881	4405	3556	3829	52784
	2%	2%	1%	1%	23%
grade 7 events	159075	160225	185221	168493	100457
	85%	84%	87%	84%	44%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-01237	ACIS-01237	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	355.905016	355.922617885	Subarray requested	NONE	NONE
[deg] Pointing Dec	0.309373	0.29256143304511	Alternating exposures requested	N	N
[deg] Pointing Roll	289.830967	290.03826727928	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-225.592463	-225.5843688559632			
[mm] SIM translation stage offset	-8	-8.008084146966468			
[s] Observation start time (MET)	245929533.184000	245928303.76419			
Observation start date	2005-10-17T09:44:29	2005-10-17T09:25:03			
[s] Observation end time (MET)	245959533.184000	245960358.59066			
Observation end date	2005-10-17T18:04:29	2005-10-17T18:19:18			
Read mode	TIMED	TIMED			

## 2.3 Aspect





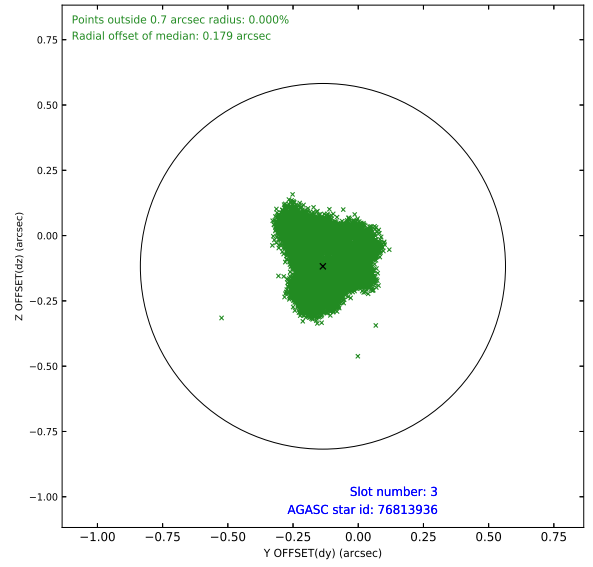
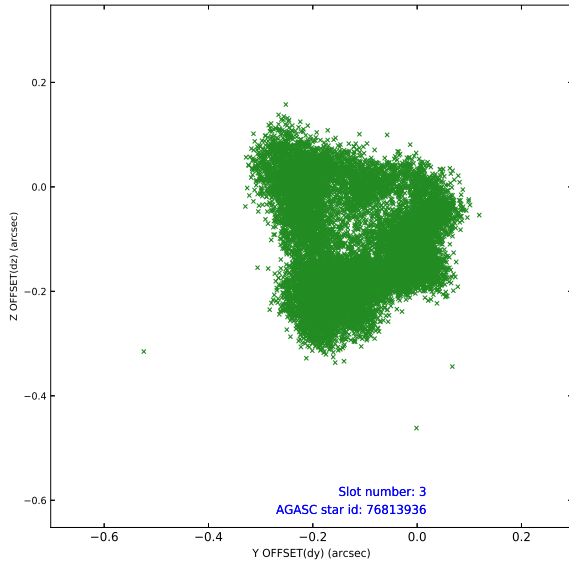
### Slot Statistics

slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-2	7.17	7362	1.000	-0.080	-0.076	0.010	0.018	0.000000	0.000000	-761.28	-1003
1	FID		ACIS-I-4	7.14	7363	1.000	0.119	0.071	0.008	0.018	0.000000	0.000000	2152.86	902
2	FID		ACIS-I-5	7.22	7362	1.000	-0.140	0.074	0.009	0.016	0.000000	0.000000	-1814.71	899
3	GUIDE	used	76813936	7.20	14725	1.000	-0.135	-0.118	0.148	0.204	355.167647	0.415974	-1261.32	-2367
4	GUIDE	used	76816080	8.42	14723	1.000	-0.187	-0.041	0.063	0.103	355.811078	0.904637	-2130.61	408
5	GUIDE	used	76816448	9.19	14711	1.000	0.056	-0.067	0.118	0.181	355.330481	0.283128	-612.40	-1977
6	GUIDE	used	688397848	8.61	14717	1.000	0.243	0.006	0.061	0.100	355.824310	-0.155582	1476.63	-840
7	GUIDE	used	76816024	9.74	14703	1.000	0.013	0.207	0.118	0.186	355.674265	0.753651	-1785.94	-238

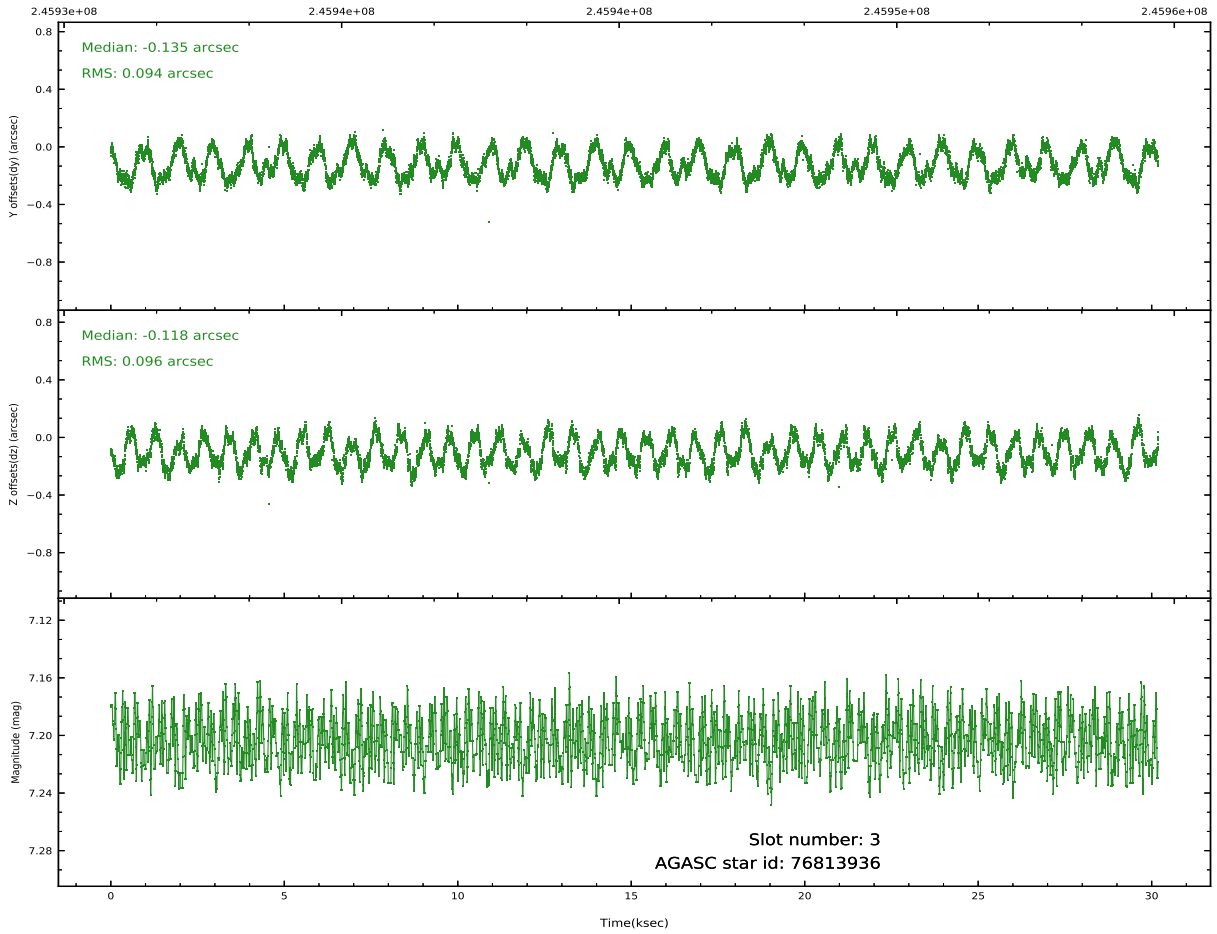
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## 2.4 Star Slots

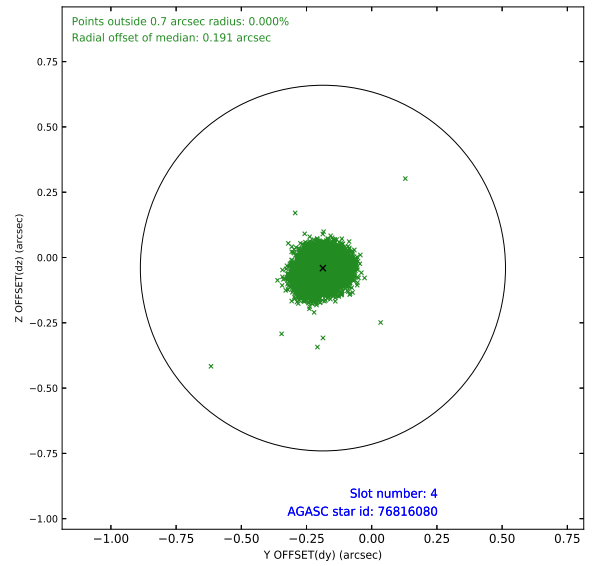
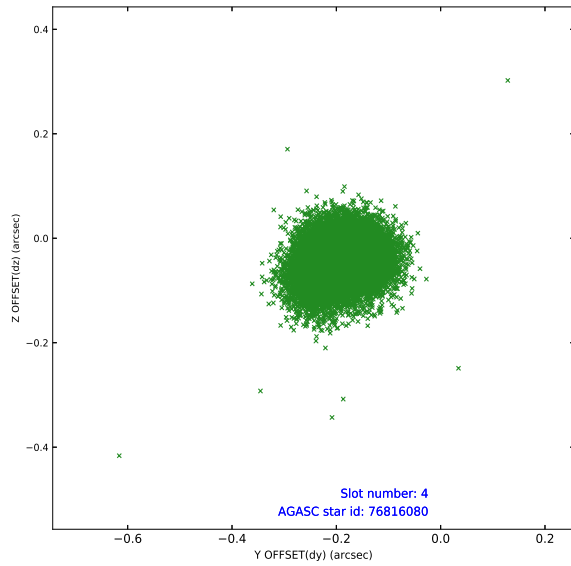
### 2.4.1 Slot 3



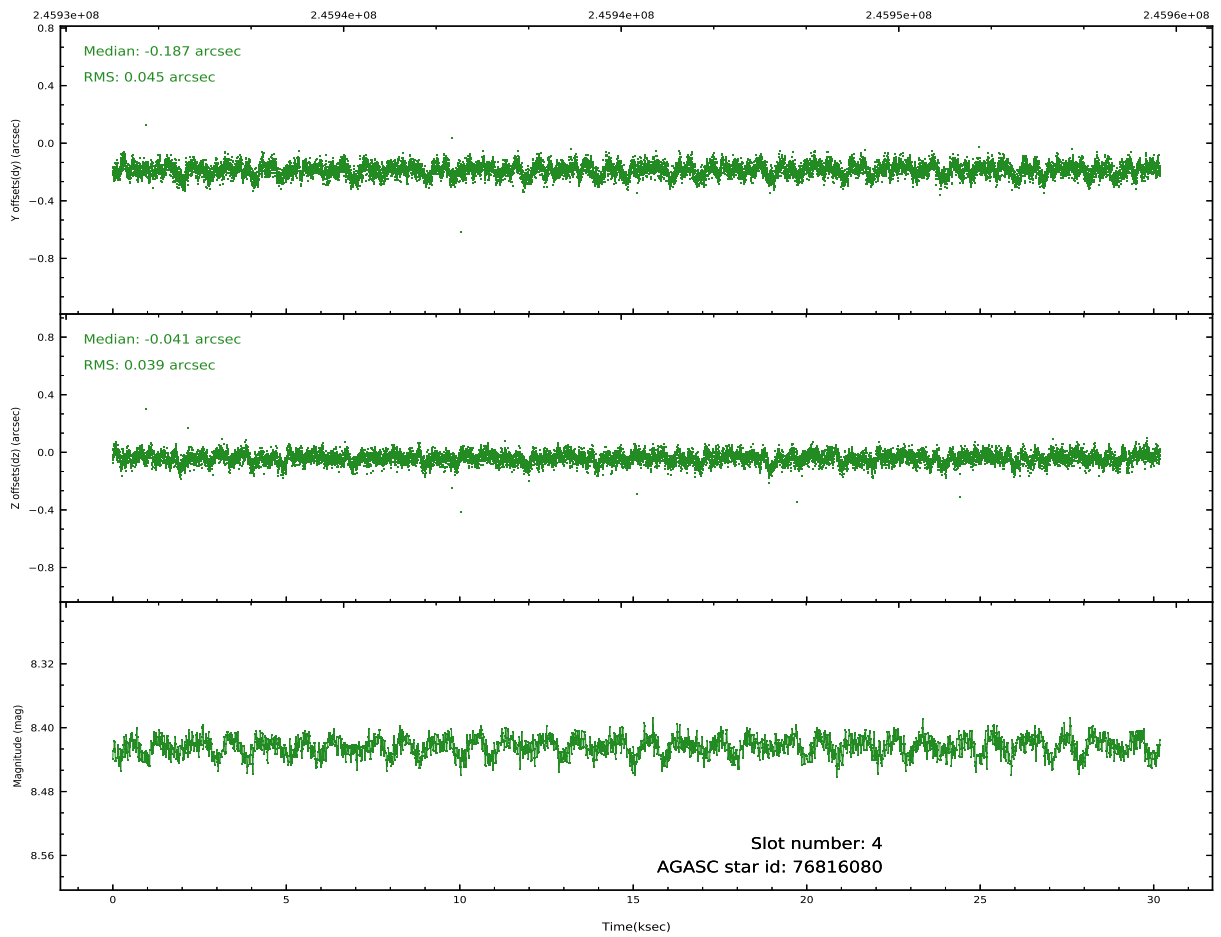
Time (s)



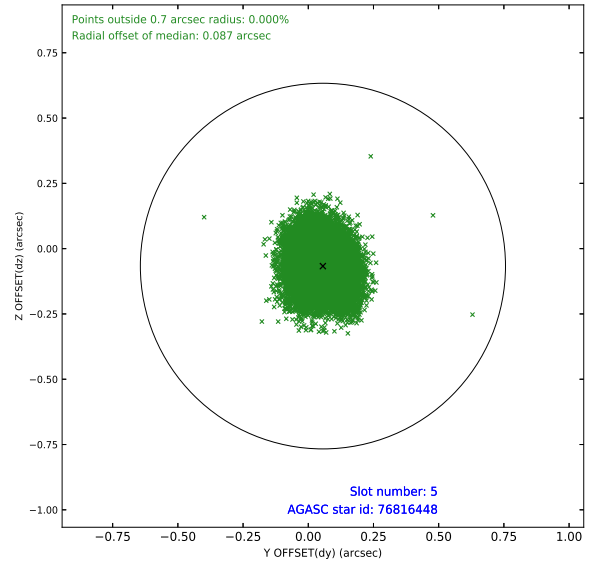
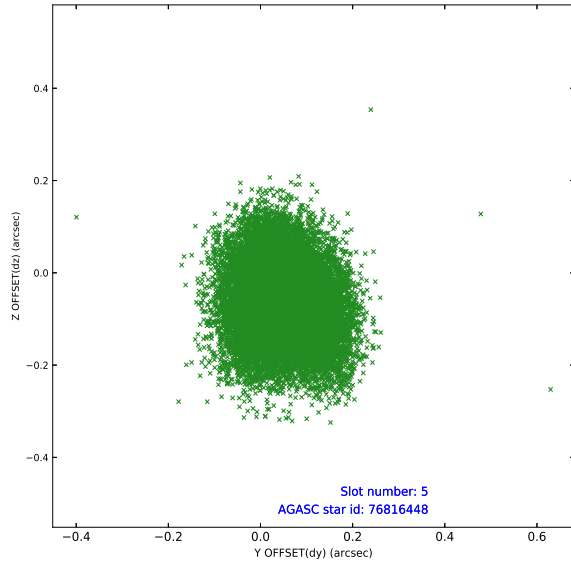
## 2.4.2 Slot 4



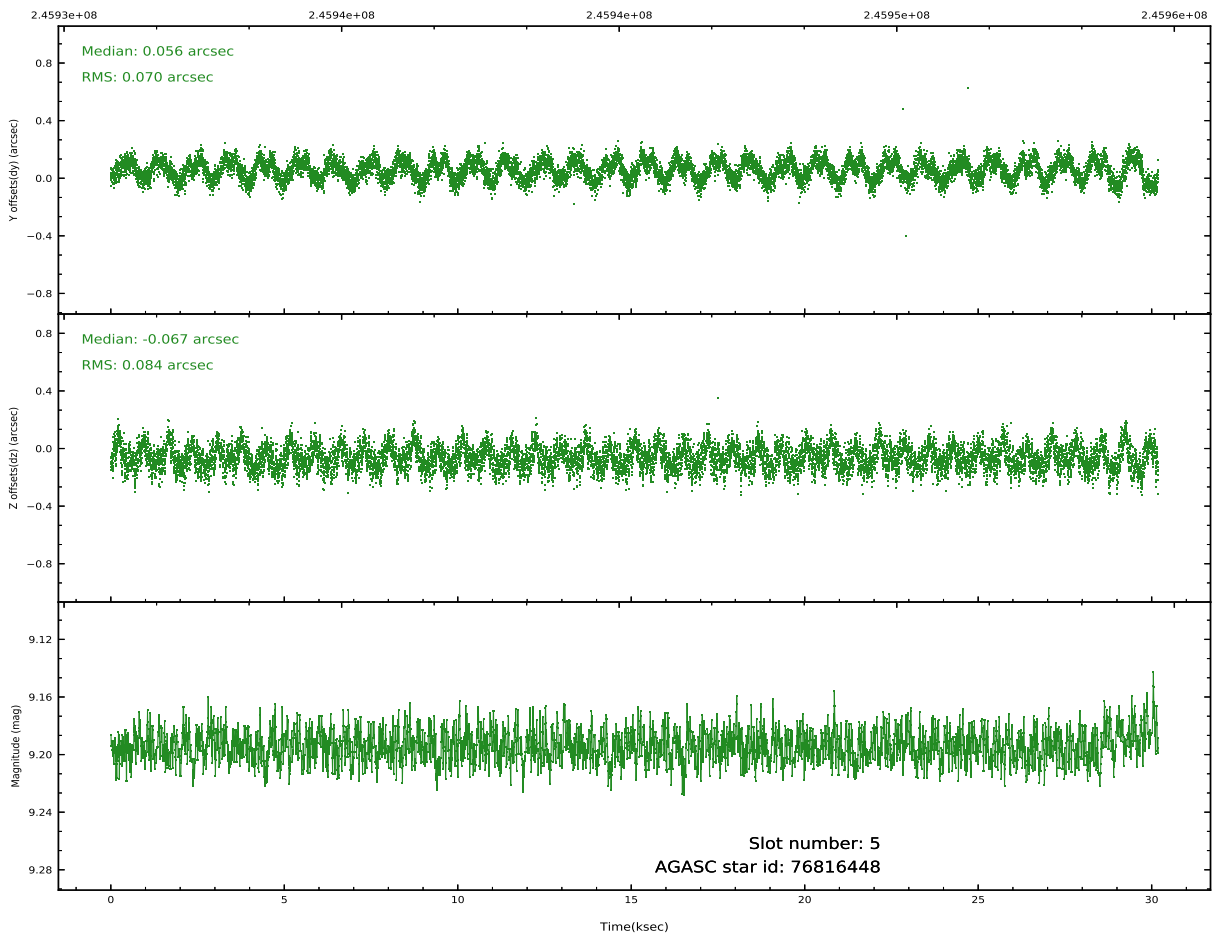
Time (s)



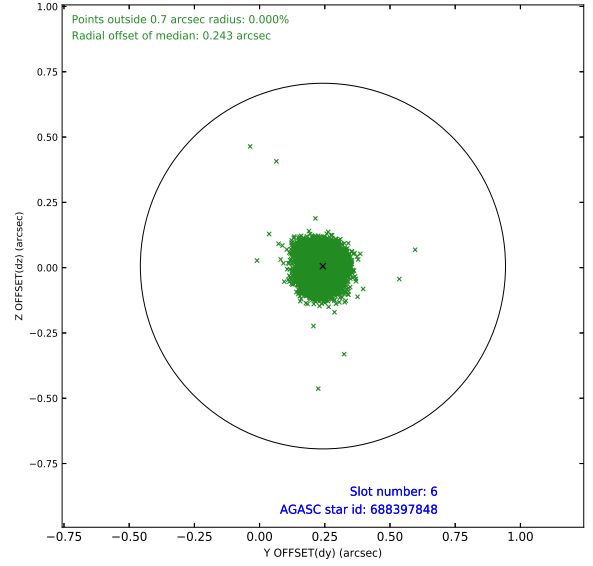
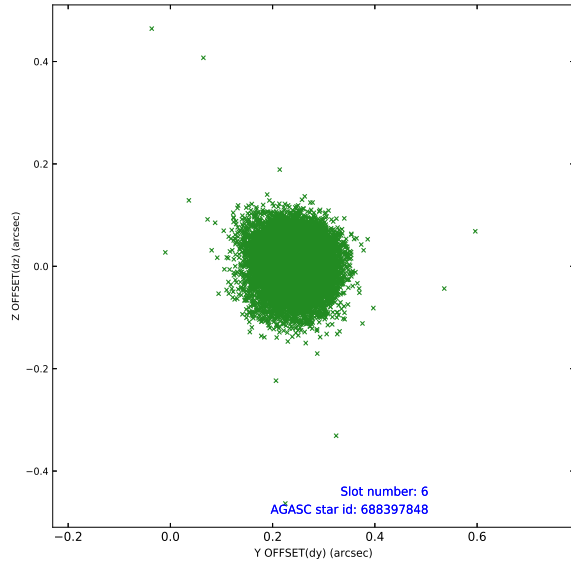
### 2.4.3 Slot 5



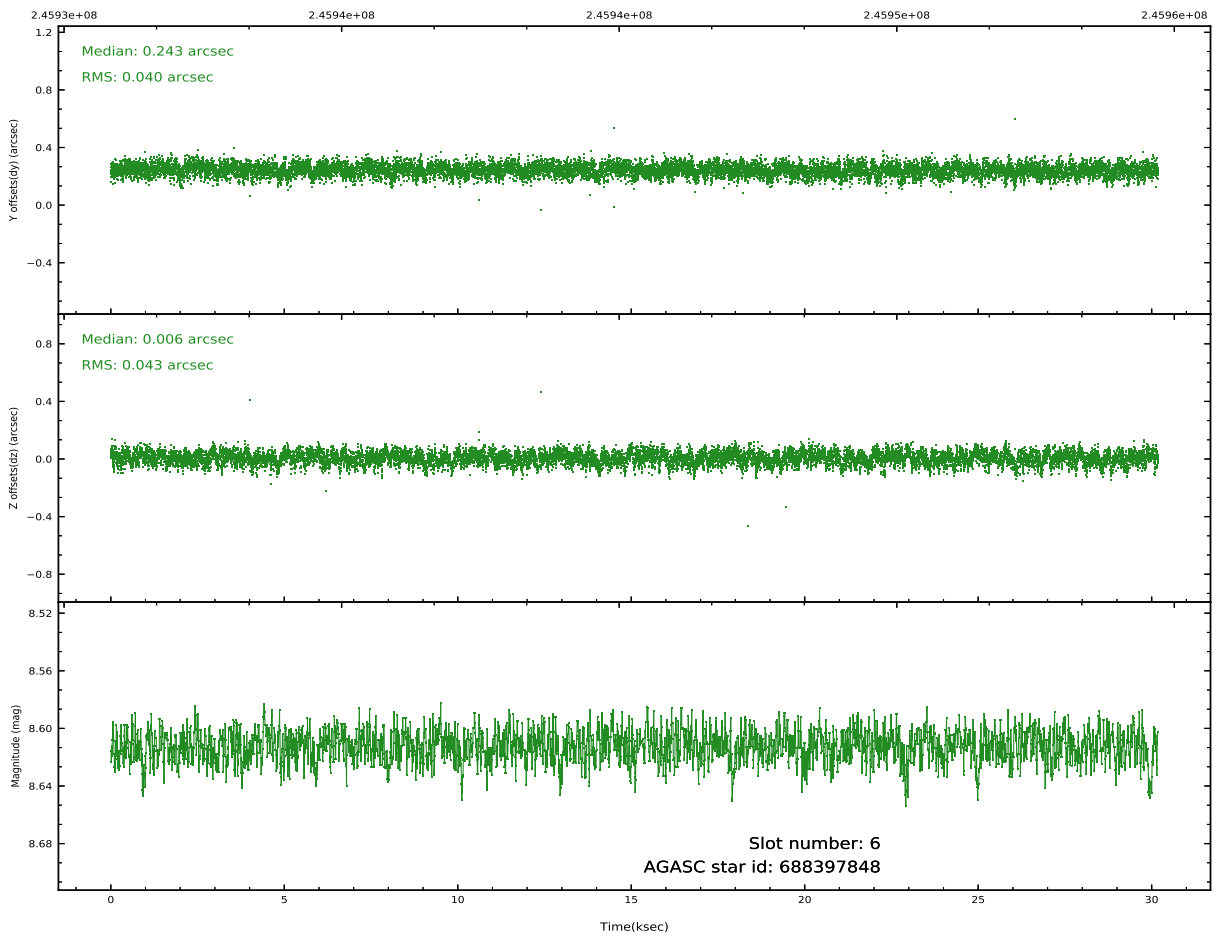
Time (s)



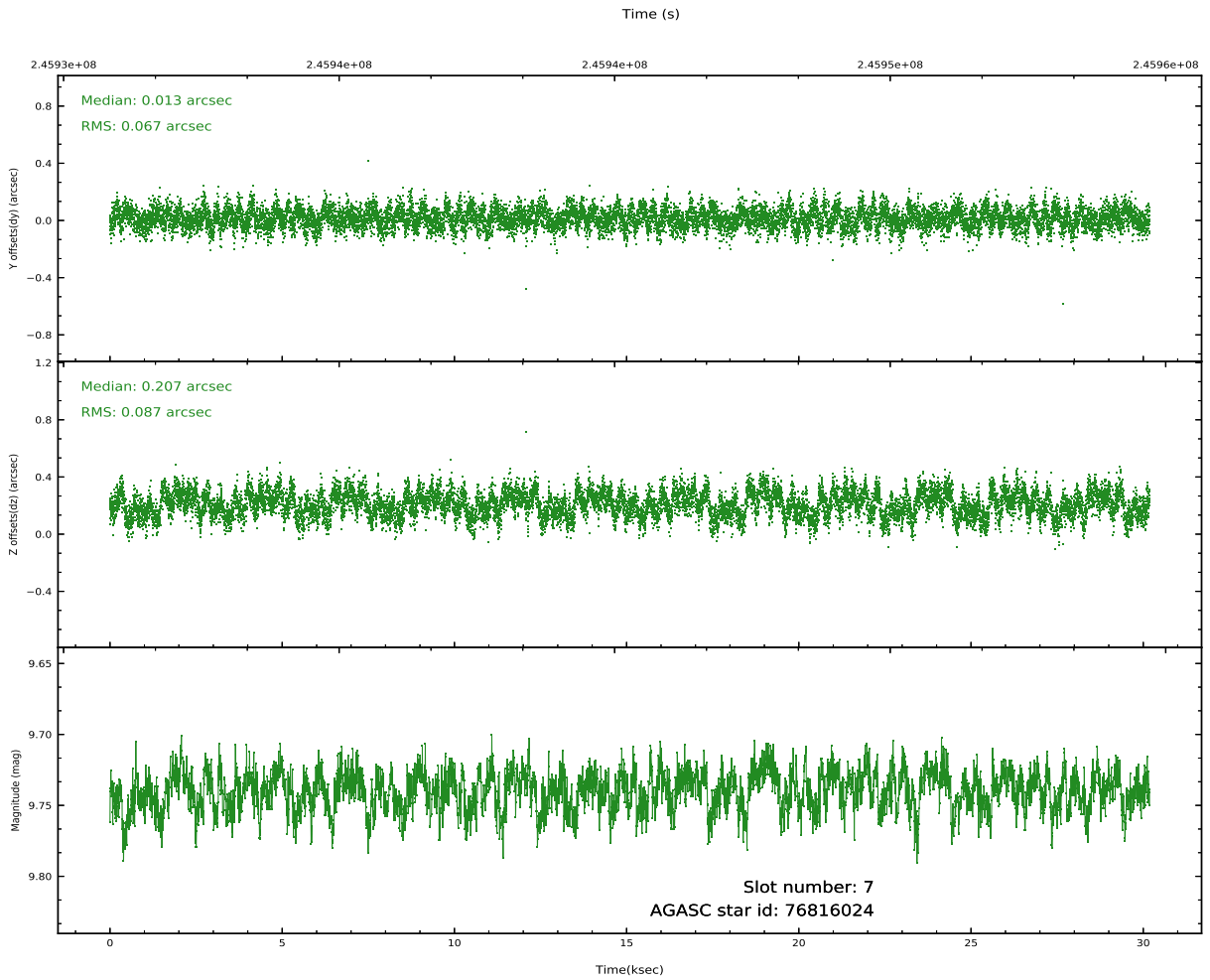
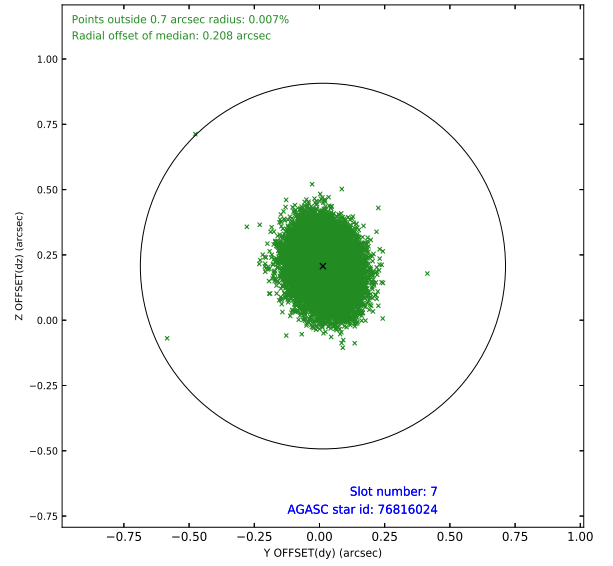
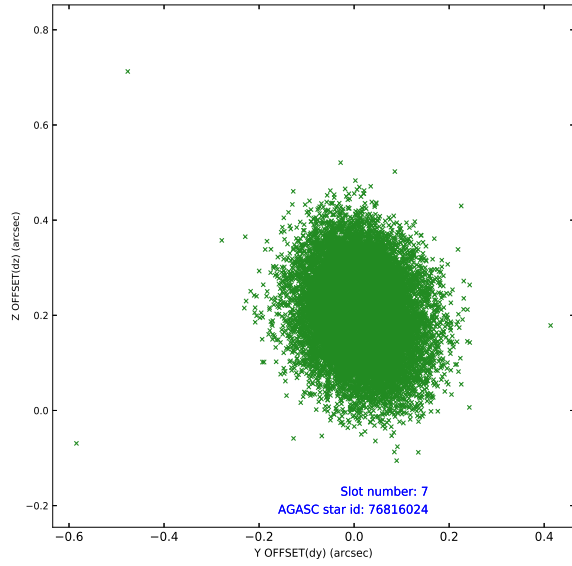
## 2.4.4 Slot 6



Time (s)

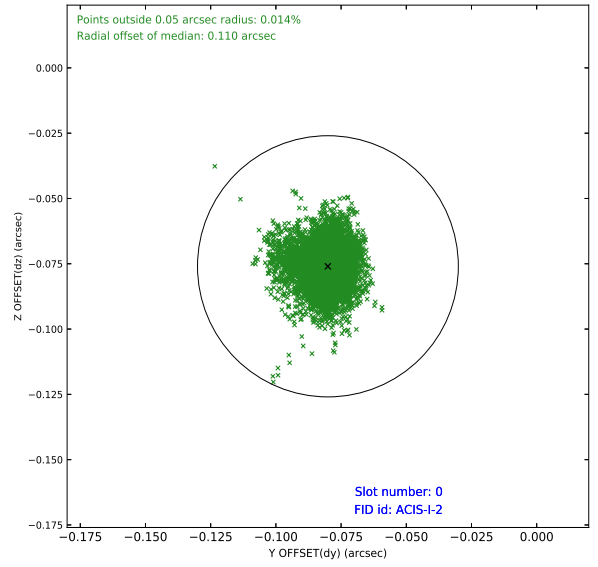
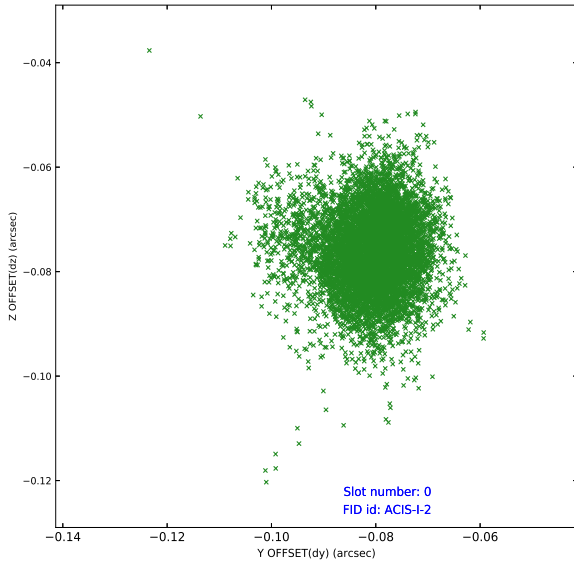


## 2.4.5 Slot 7

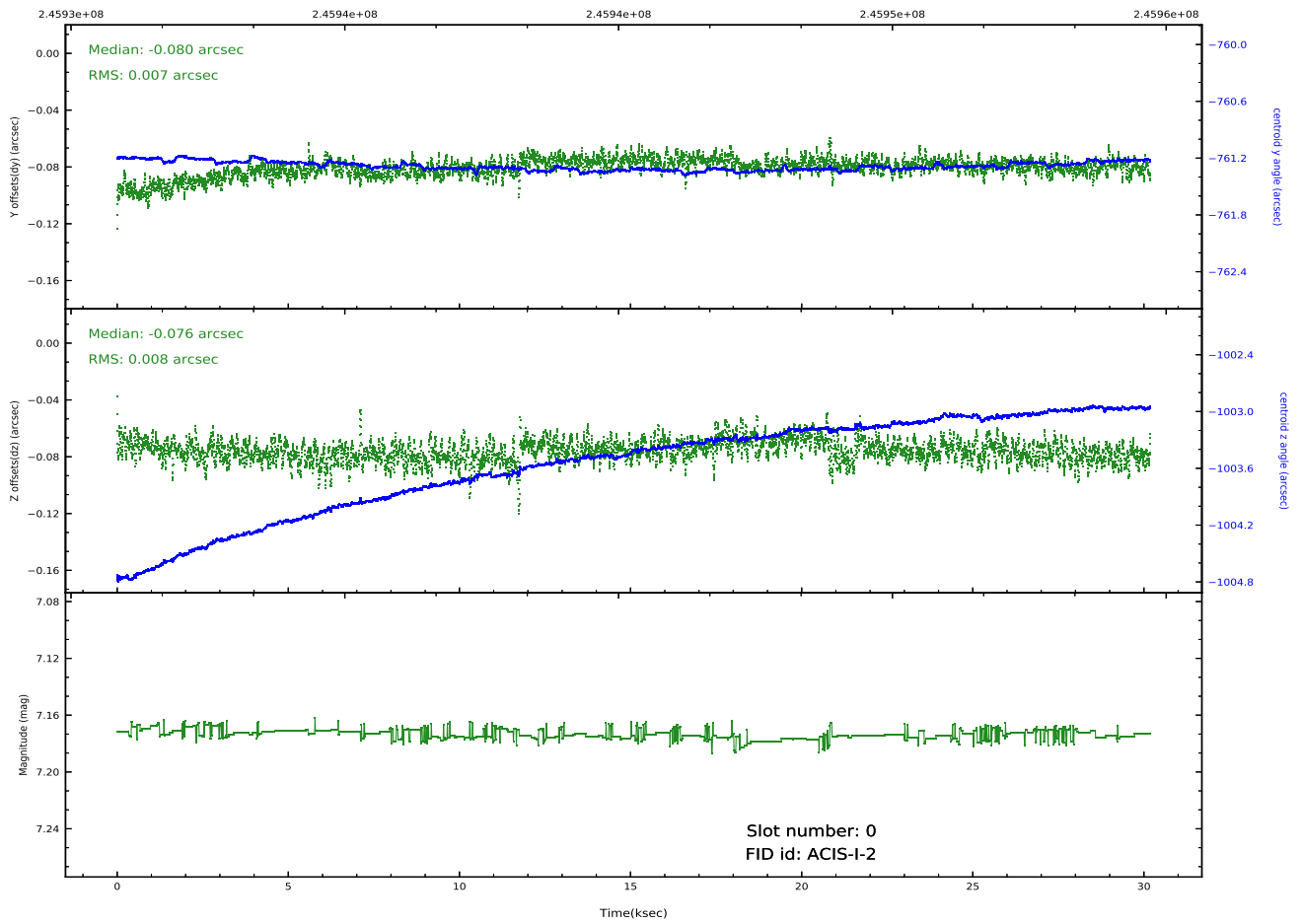


## 2.5 FID Slots

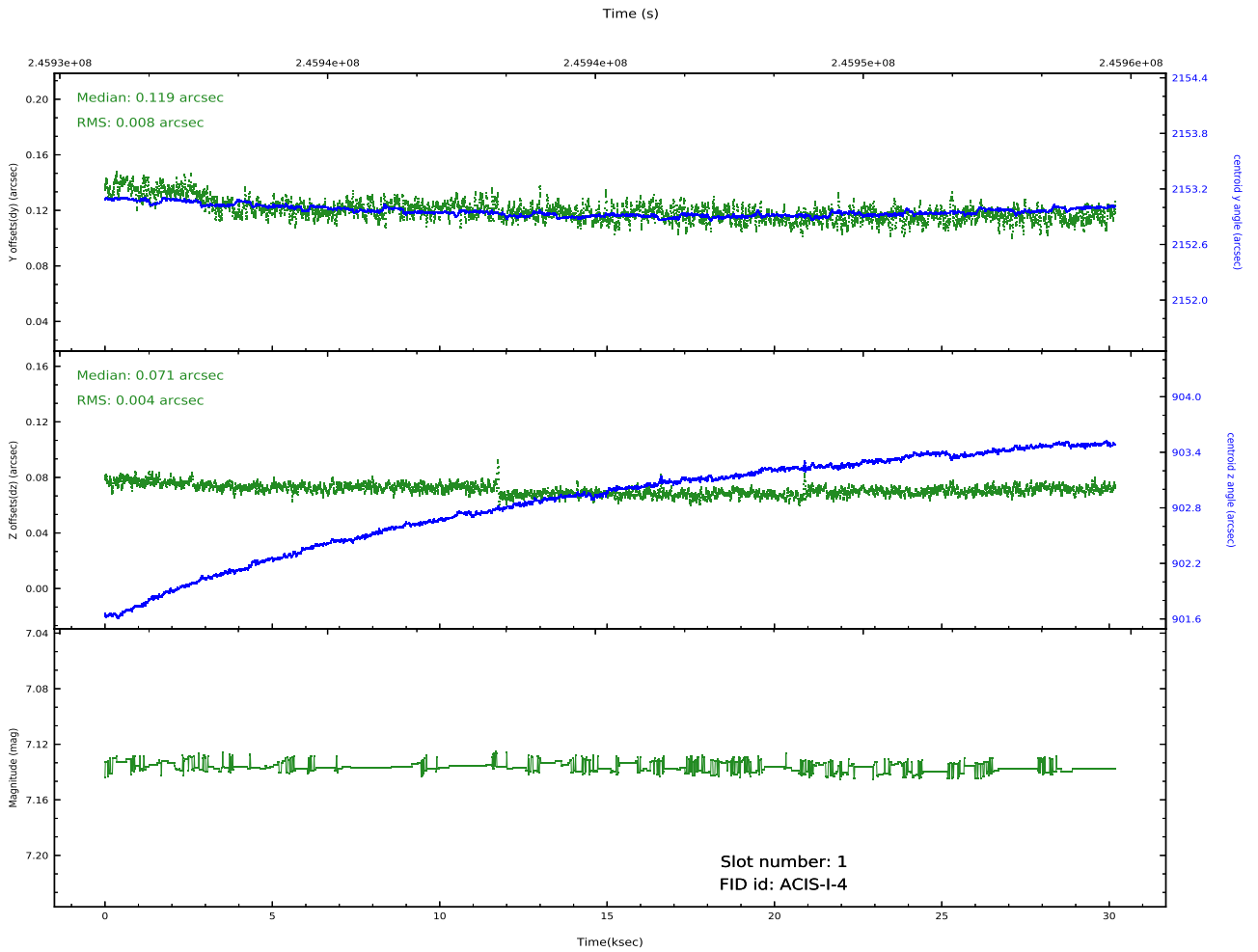
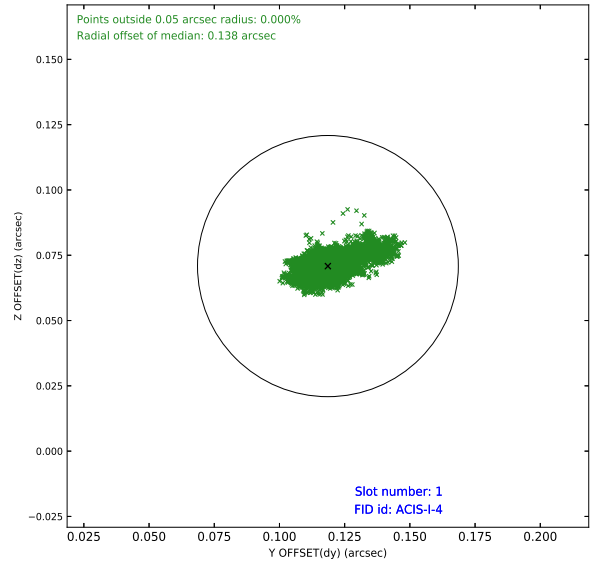
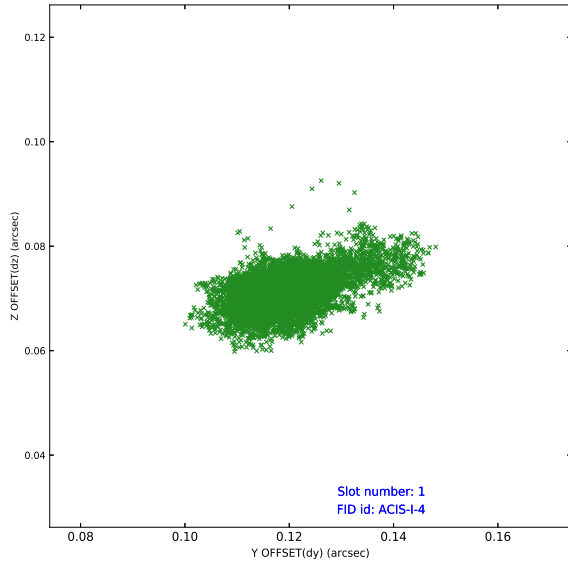
### 2.5.1 Slot 0



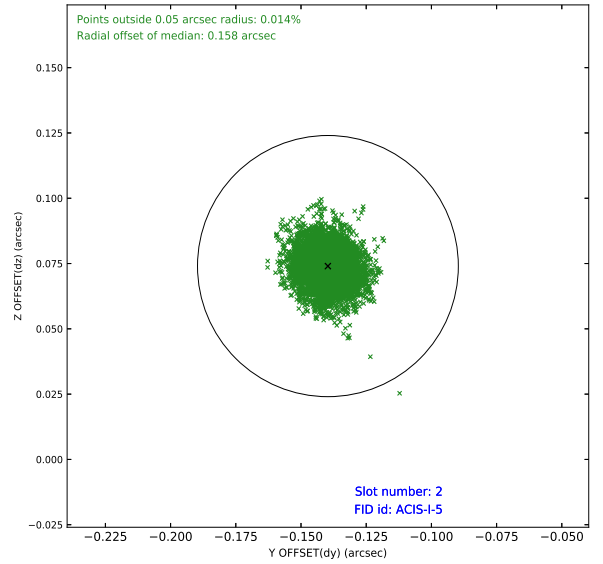
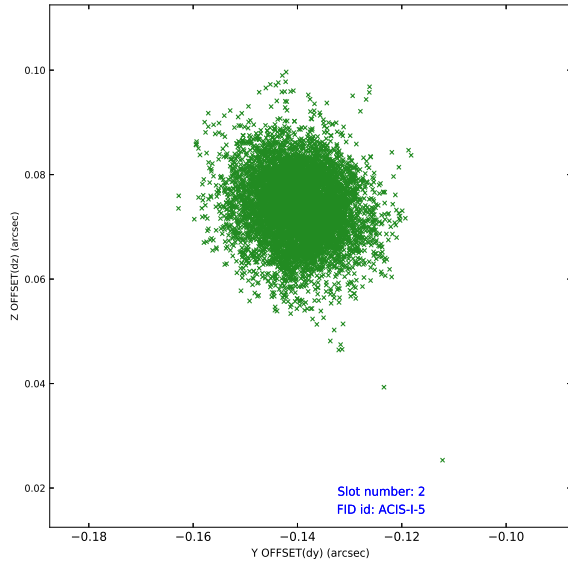
Time (s)



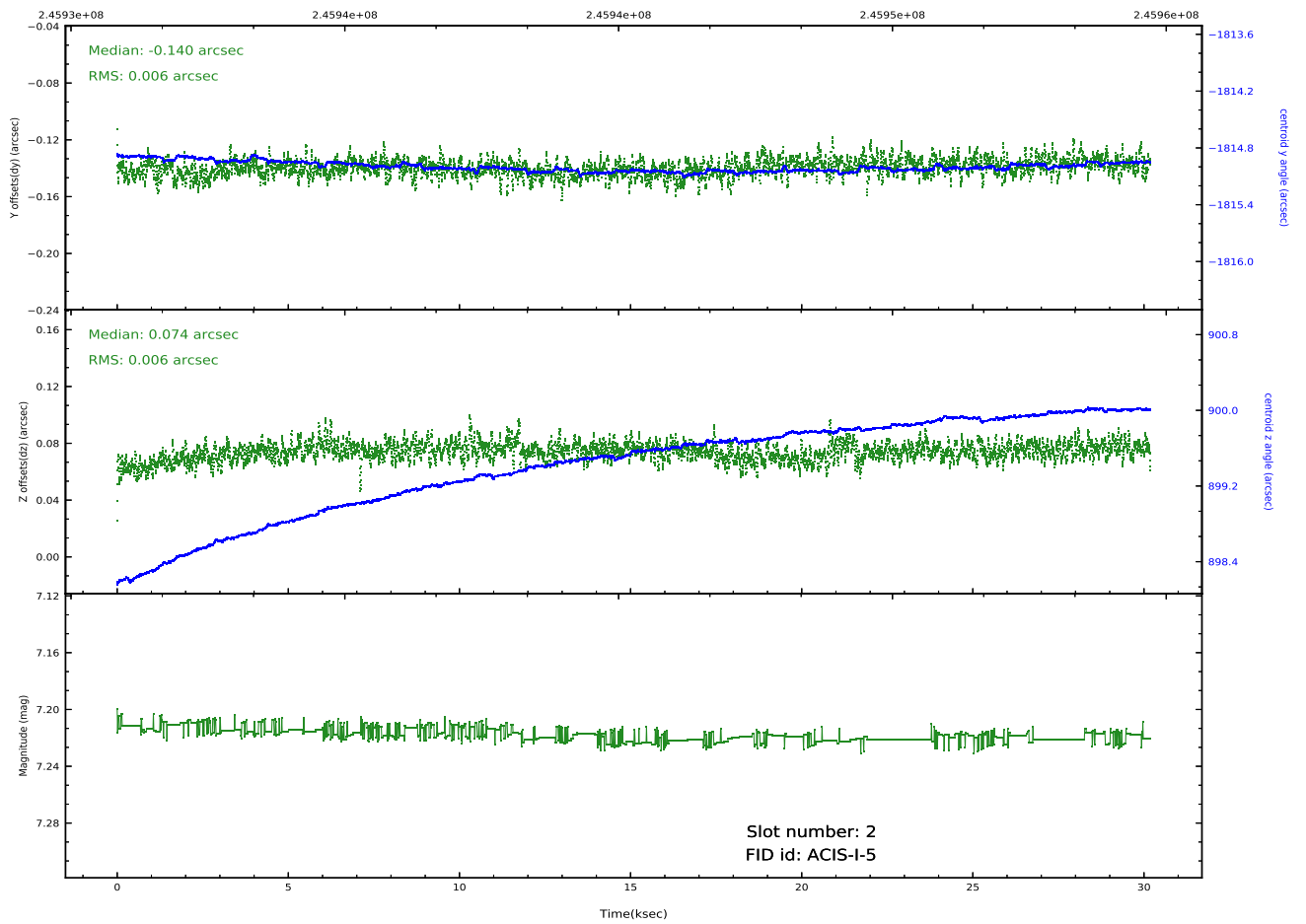
## 2.5.2 Slot 1



### 2.5.3 Slot 2



Time (s)



# A Summary

## A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2020.10.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	30.17535

## A.2 Comments

Joint proposal with XMM.