

# V&V Reference Report

## L2 ASCDS Version : 10.9.1

Observation 5769 - L2 Version 4  
Chandra X-Ray Center

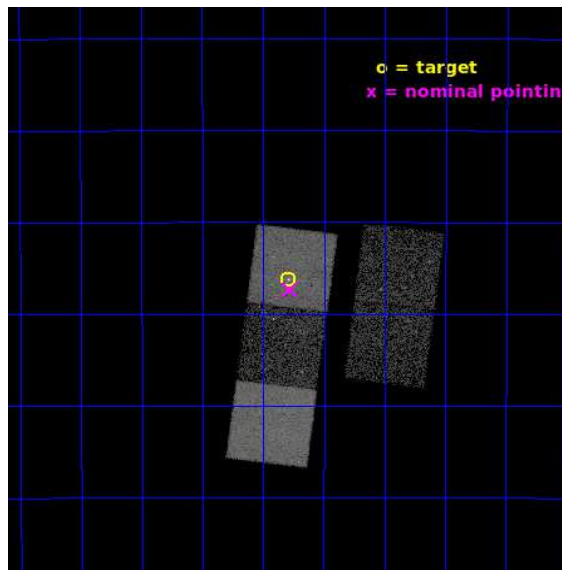
L2 Processing Date : Oct 5 2020

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# 1 Front

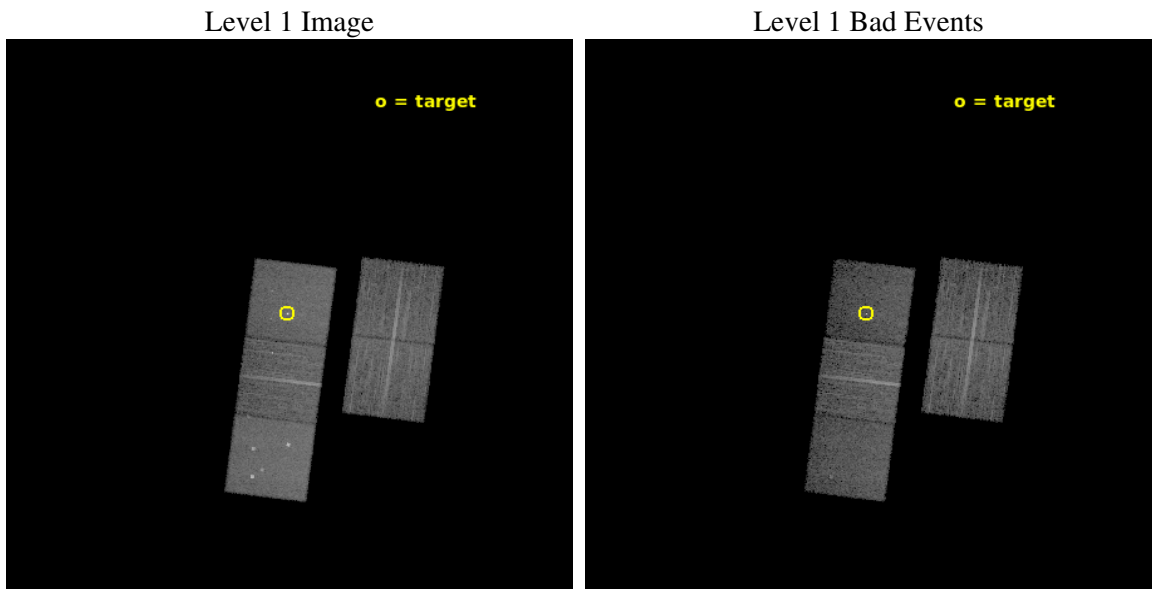
seq_num	800482	Sequence number
obs_id	5769	Observation id
title	X-ray emission from clusters of galaxies from the REFLEX sample.	P
observer	Dr. Peter Predehl	Principal investigator
object	RXCJ2251.7-3206	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	342.948333	Observer's specified target RA [deg]
dec_targ	-32.103389	Observer's specified target Dec [deg]
ra_nom	342.94494304087	Nominal RA [deg]
dec_nom	-32.122629785365	Nominal Dec [deg]
roll_nom	277.17603327326	Nominal Roll [deg]
revision	4	Processing version of data
ontime	10422.199979931	Sum of GTIs [s]
livetime	10286.026264481	Livetime [s]
ontime2	10415.918079376	Sum of GTIs [s]
ontime3	10415.918029577	Sum of GTIs [s]
ontime5	10422.199979931	Sum of GTIs [s]
ontime6	10422.199979931	Sum of GTIs [s]
ontime7	10422.199979931	Sum of GTIs [s]
l2events	92498	Number of level 2 events



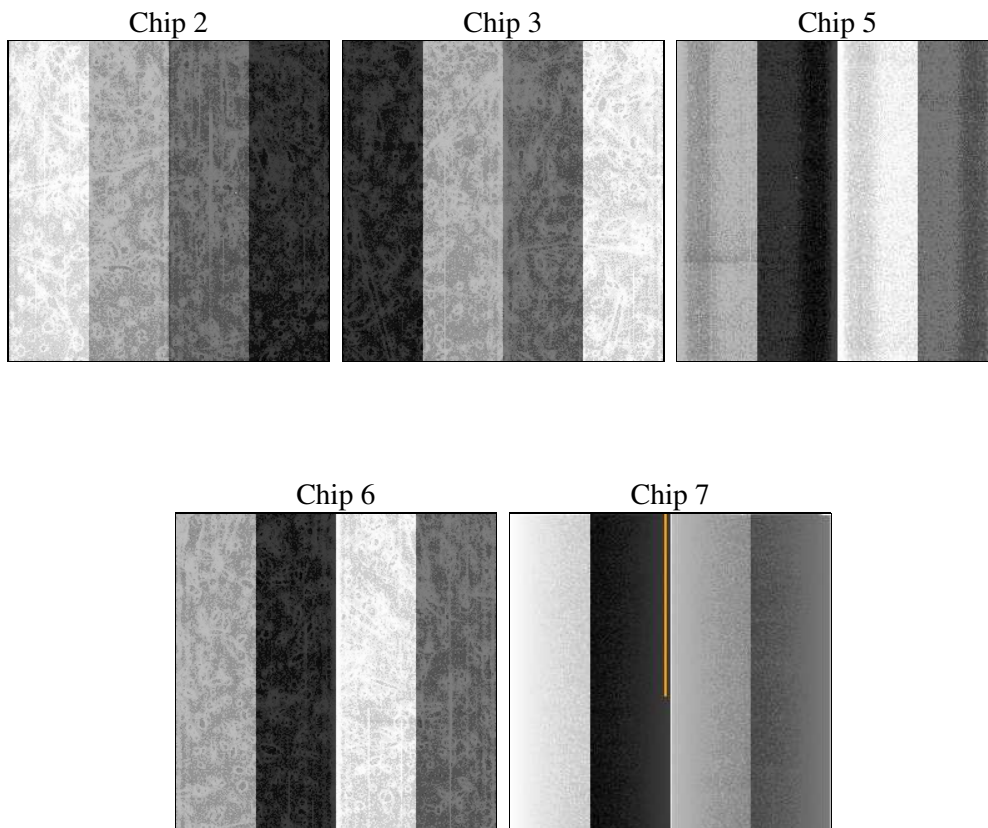
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10238.261000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	10422.199979931	Sum of GTIs [s]
caldbver	4.9.2	&#160	ontime2	10415.918079376	Sum of GTIs [s]
date	2020-10-06T02:16:37	Date and time of file creation	ontime3	10415.918029577	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	10422.199979931	Sum of GTIs [s]
			ontime6	10422.199979931	Sum of GTIs [s]
			ontime7	10422.199979931	Sum of GTIs [s]
			l1events	385633	Number of level 1 events

### 2.1.4 Events

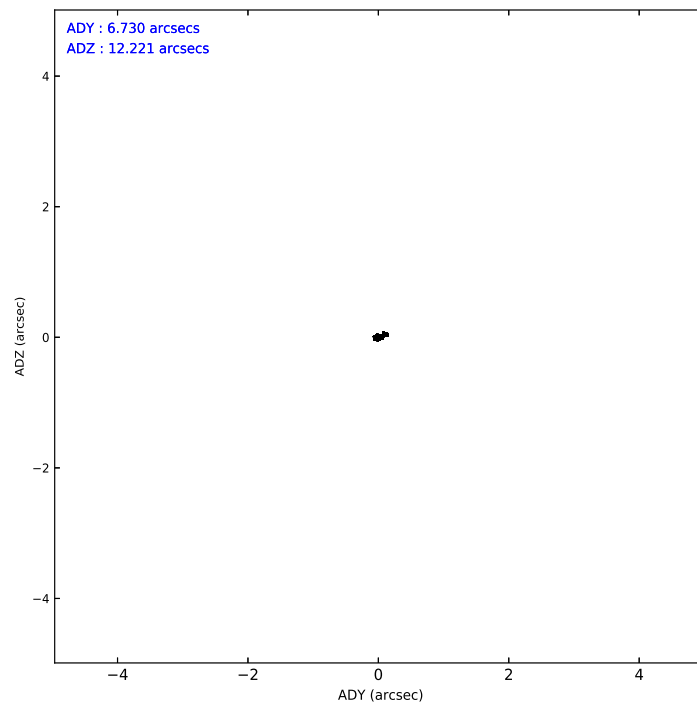
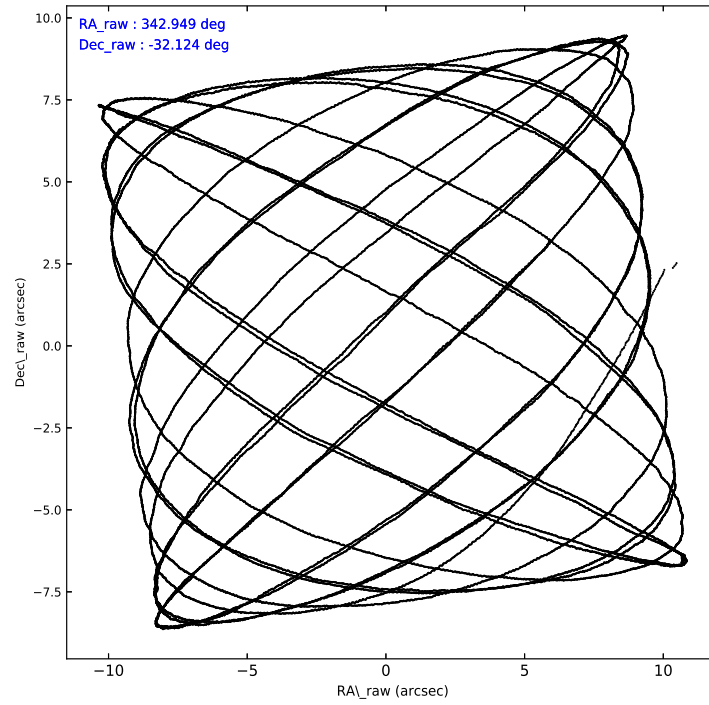
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
level 1 events	71906	65388	96610	71260	80469
rejected events	65559	59346	49210	63564	44687
rejected %	91%	90%	50%	89%	55%

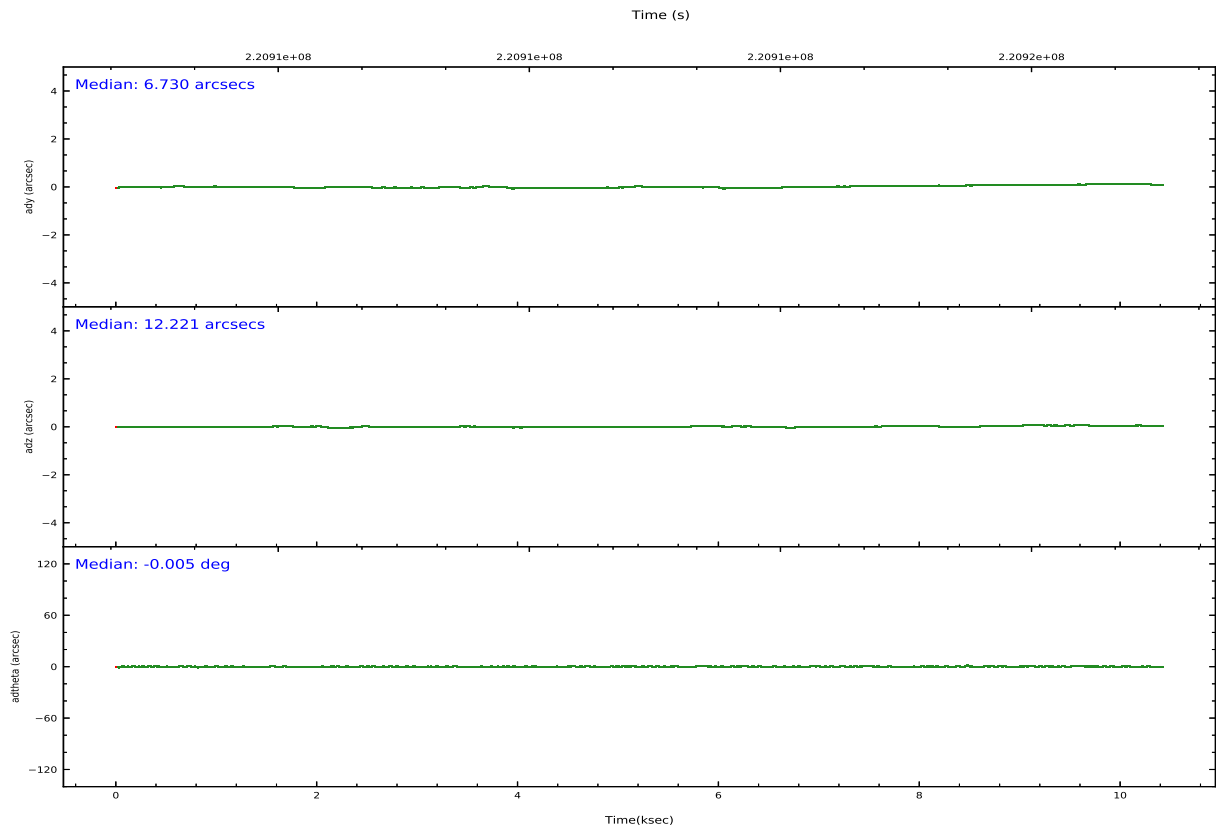
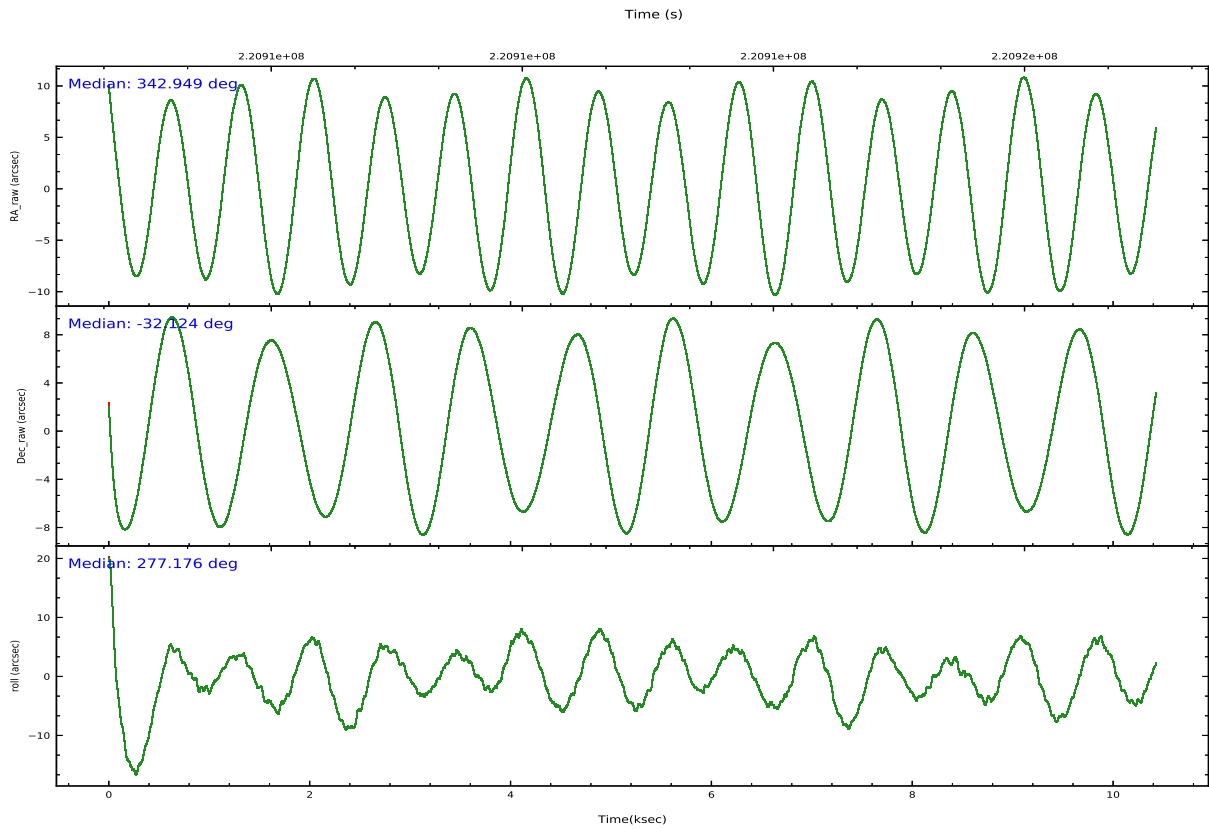
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
grade 0 events	2378	2257	7435	3172	3894
	3%	3%	7%	4%	4%
grade 1 events	24	32	236	39	197
	0%	0%	0%	0%	0%
grade 2 events	1498	1347	14470	1578	7590
	2%	2%	14%	2%	9%
grade 3 events	736	727	2140	862	3498
	1%	1%	2%	1%	4%
grade 4 events	769	769	2032	803	3537
	1%	1%	2%	1%	4%
grade 5 events	2144	2514	7485	2790	8552
	2%	3%	7%	3%	10%
grade 6 events	1271	1211	23676	1619	18967
	1%	1%	24%	2%	23%
grade 7 events	63086	56531	39136	60397	34234
	87%	86%	40%	84%	42%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-23567	ACIS-23567	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	342.929595	342.94494304087	Subarray requested	NONE	NONE
[deg] Pointing Dec	-32.102657	-32.122629785365	Alternating exposures requested	N	N
[deg] Pointing Roll	277.012105	277.17603327326	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	220906073.184000	220904833.6111			
Observation start date	2004-12-31T18:46:49	2004-12-31T18:27:13			
[s] Observation end time (MET)	220916311.184000	220916526.29913			
Observation end date	2004-12-31T21:37:27	2004-12-31T21:42:06			
Read mode	TIMED	TIMED			

## 2.3 Aspect





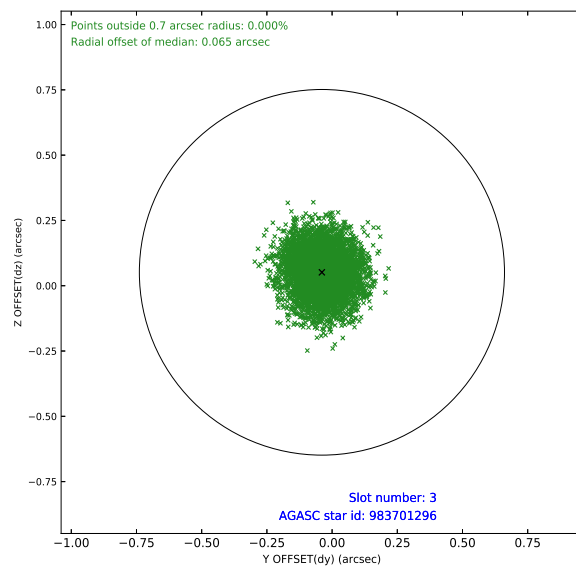
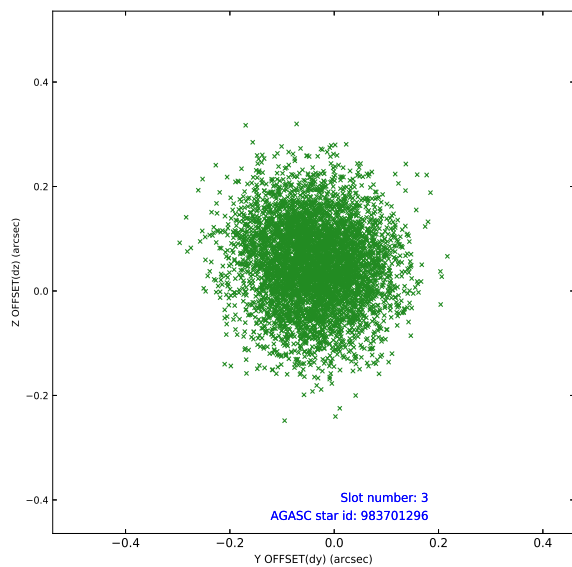
### Slot Statistics

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	7.19	2544	1.000	0.025	-0.109	0.007	0.012	0.000000	0.000000	936.55	-1729
1	FID		ACIS-S-4	7.20	2544	1.000	0.075	0.068	0.007	0.012	0.000000	0.000000	2154.30	174
2	FID		ACIS-S-5	7.23	2544	1.000	-0.127	0.054	0.007	0.013	0.000000	0.000000	-1811.81	168
3	GUIDE	used	983701296	9.93	5081	1.000	-0.039	0.051	0.117	0.187	343.446048	-32.388884	1218.21	1432
4	GUIDE	used	983701760	8.70	5088	1.000	-0.164	0.014	0.070	0.112	342.575335	-31.830317	-1102.82	-955
5	GUIDE	used	983703872	8.76	5086	1.000	0.011	0.024	0.090	0.133	342.723807	-32.488548	1303.28	-789
6	GUIDE	used	983704680	9.35	5080	1.000	0.048	0.087	0.085	0.138	343.270612	-32.443271	1345.52	878
7	GUIDE	used	984089048	9.03	5084	1.000	0.142	-0.175	0.087	0.141	342.300577	-32.750637	2089.11	-2175

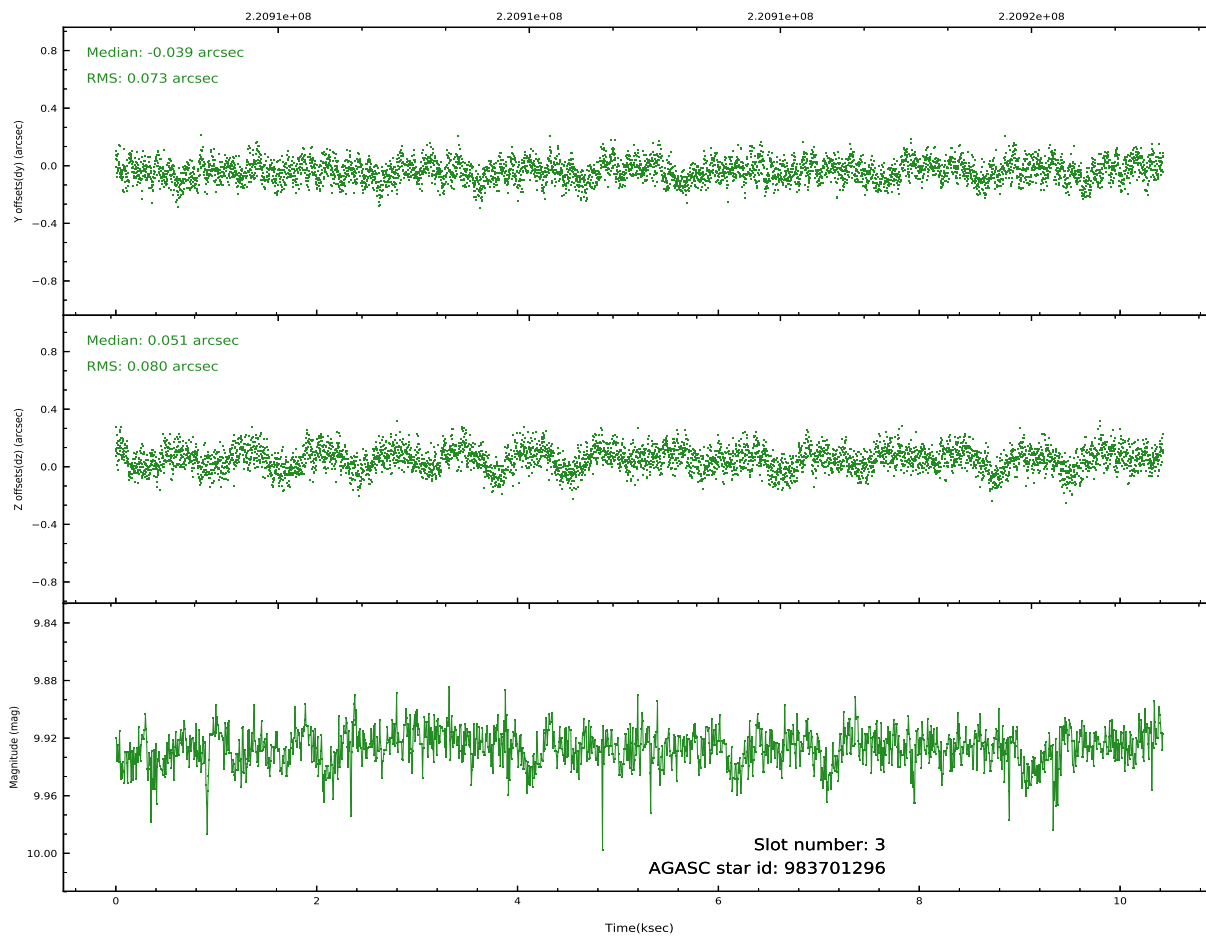
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## 2.4 Star Slots

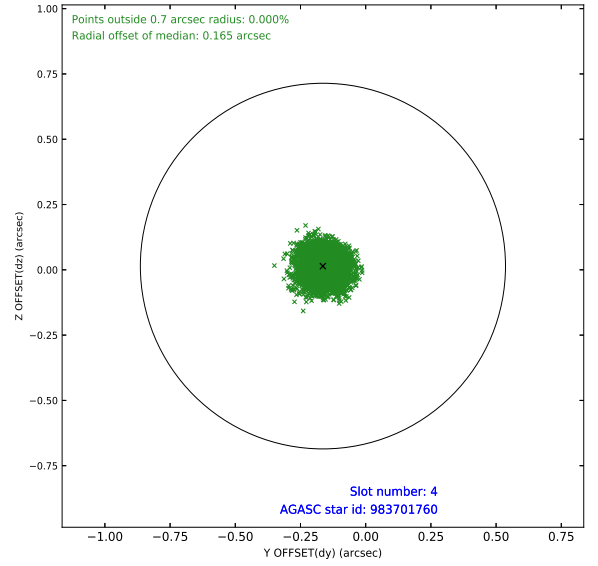
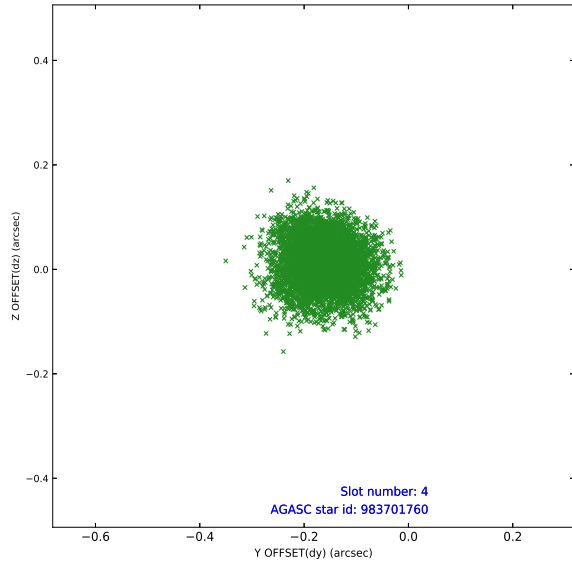
### 2.4.1 Slot 3



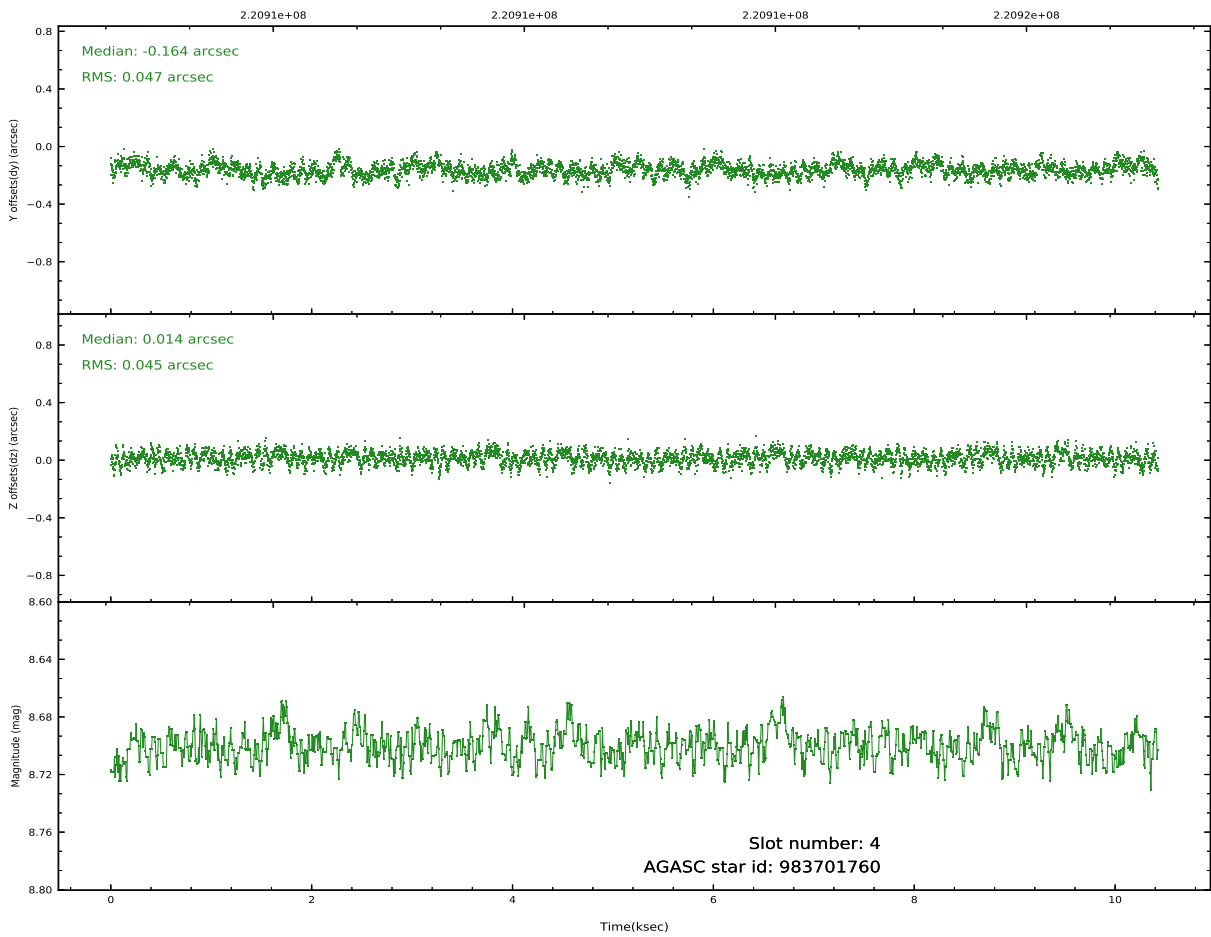
Time (s)



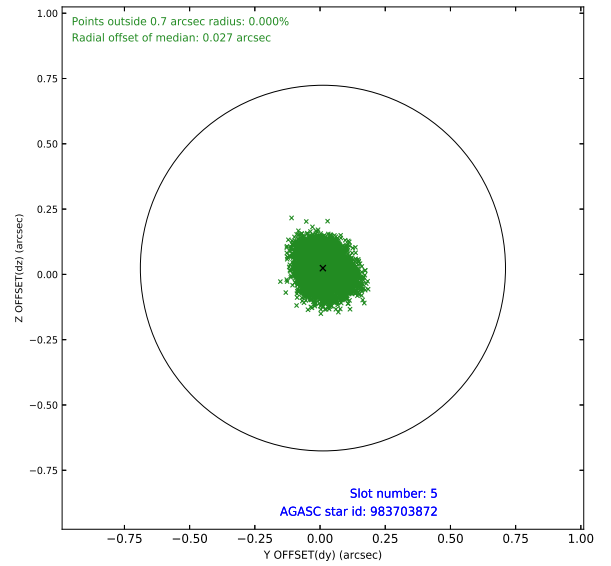
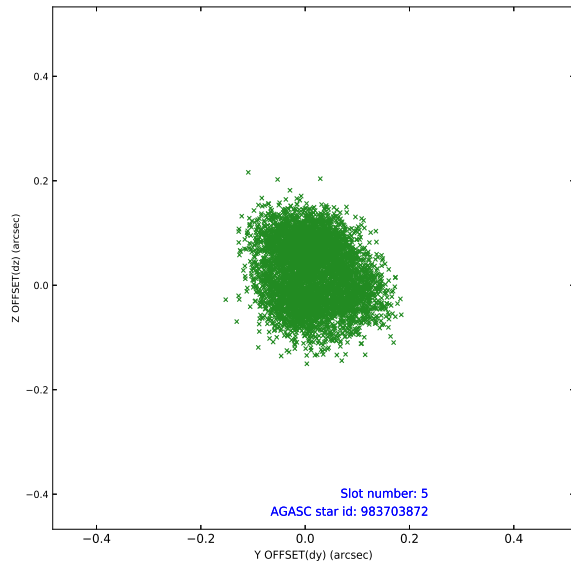
## 2.4.2 Slot 4



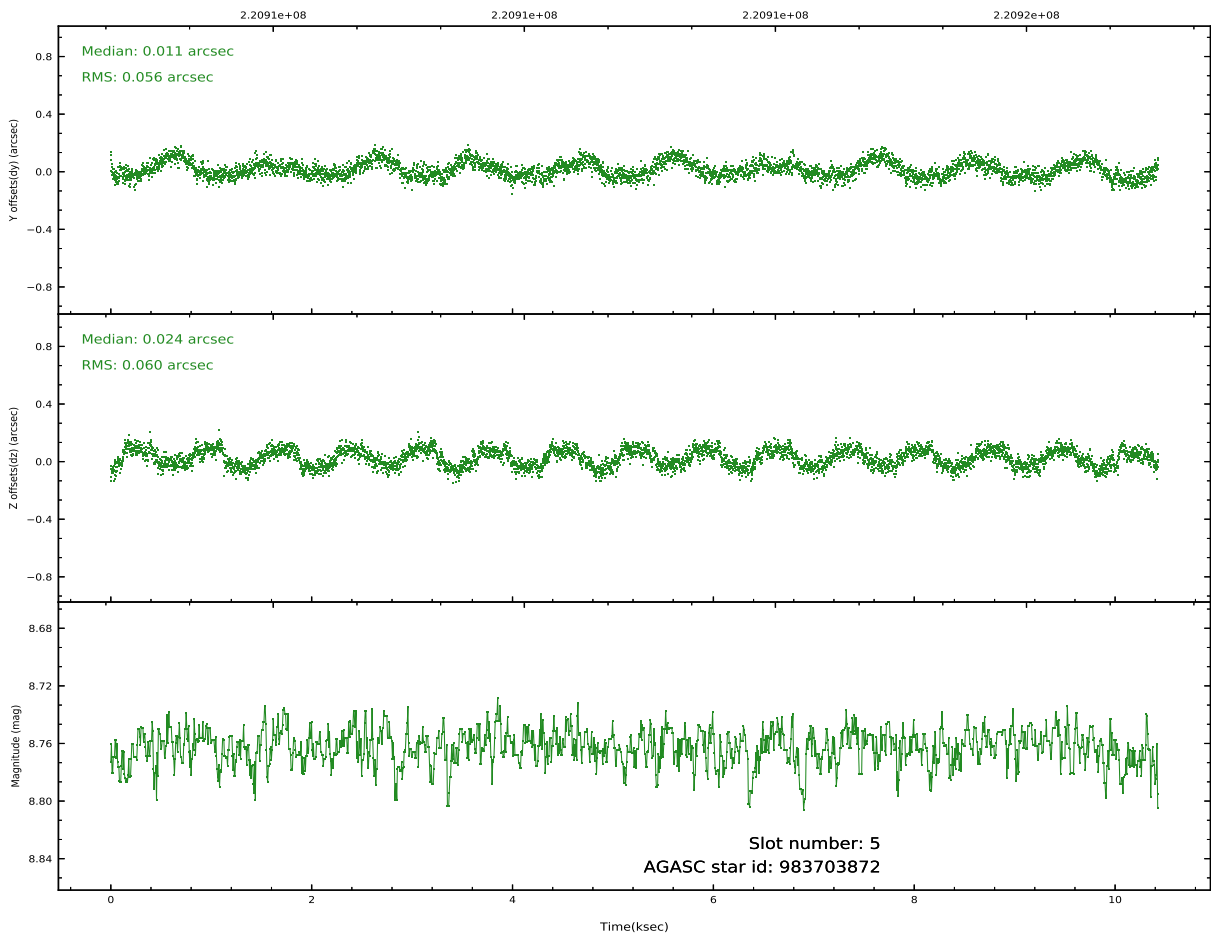
Time (s)



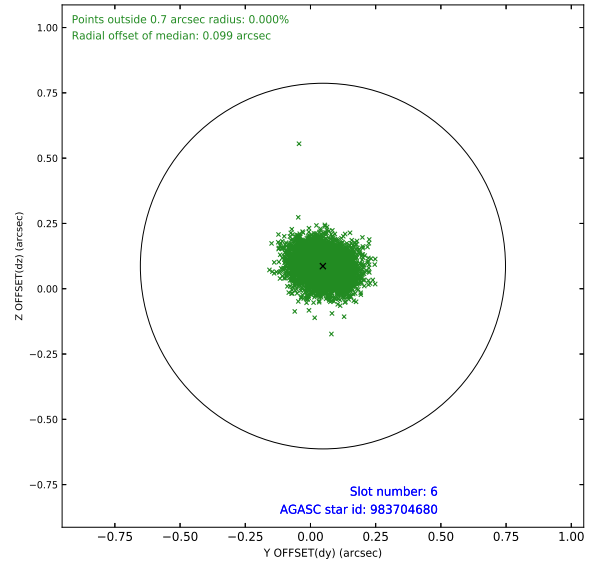
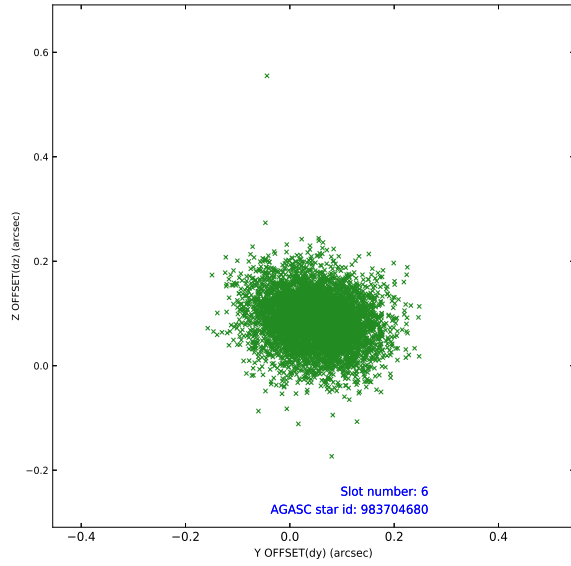
### 2.4.3 Slot 5



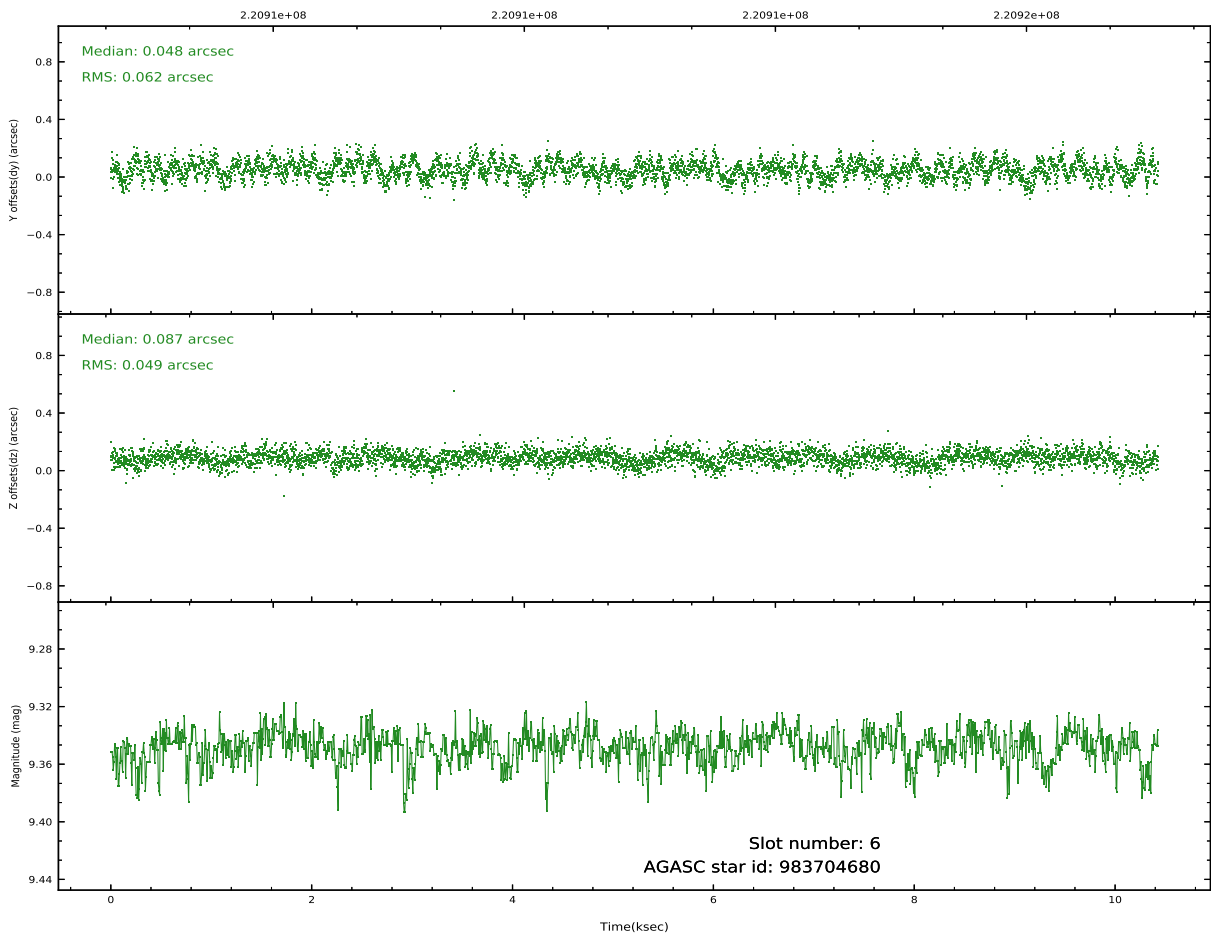
Time (s)



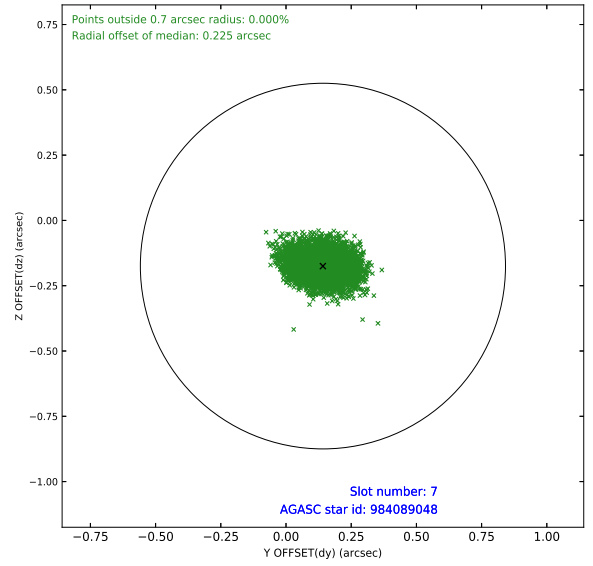
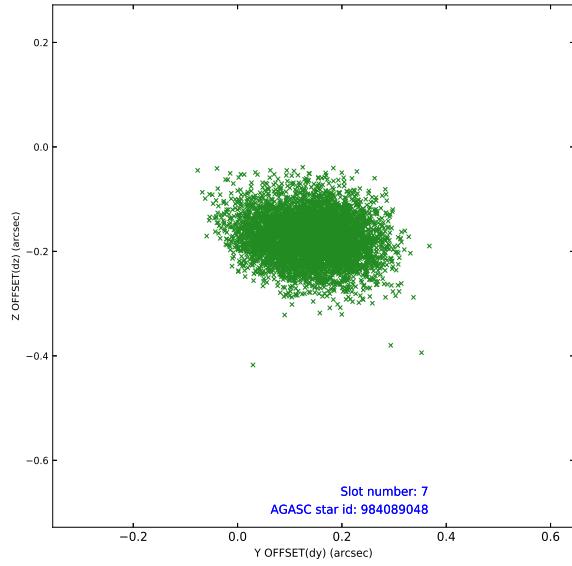
## 2.4.4 Slot 6



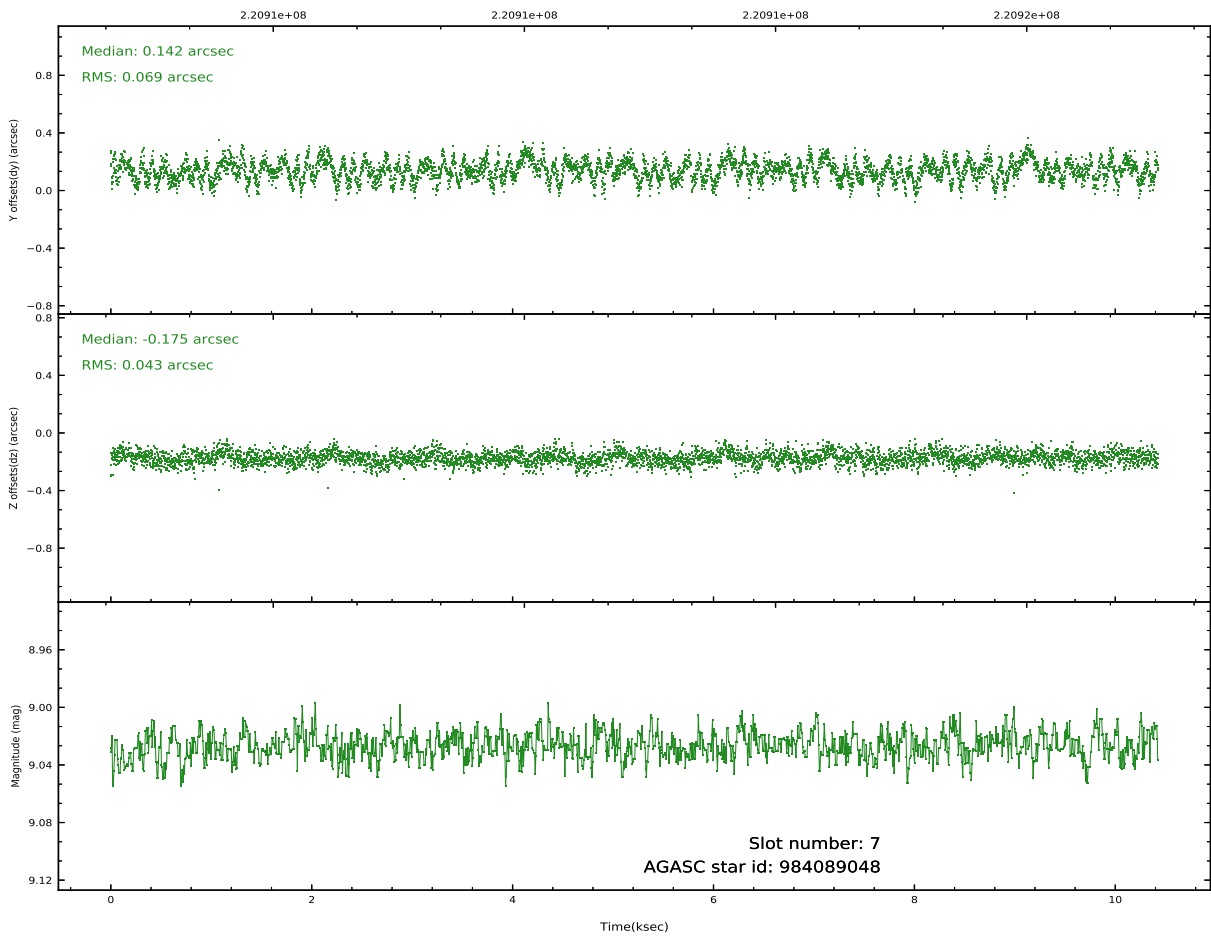
Time (s)



## 2.4.5 Slot 7

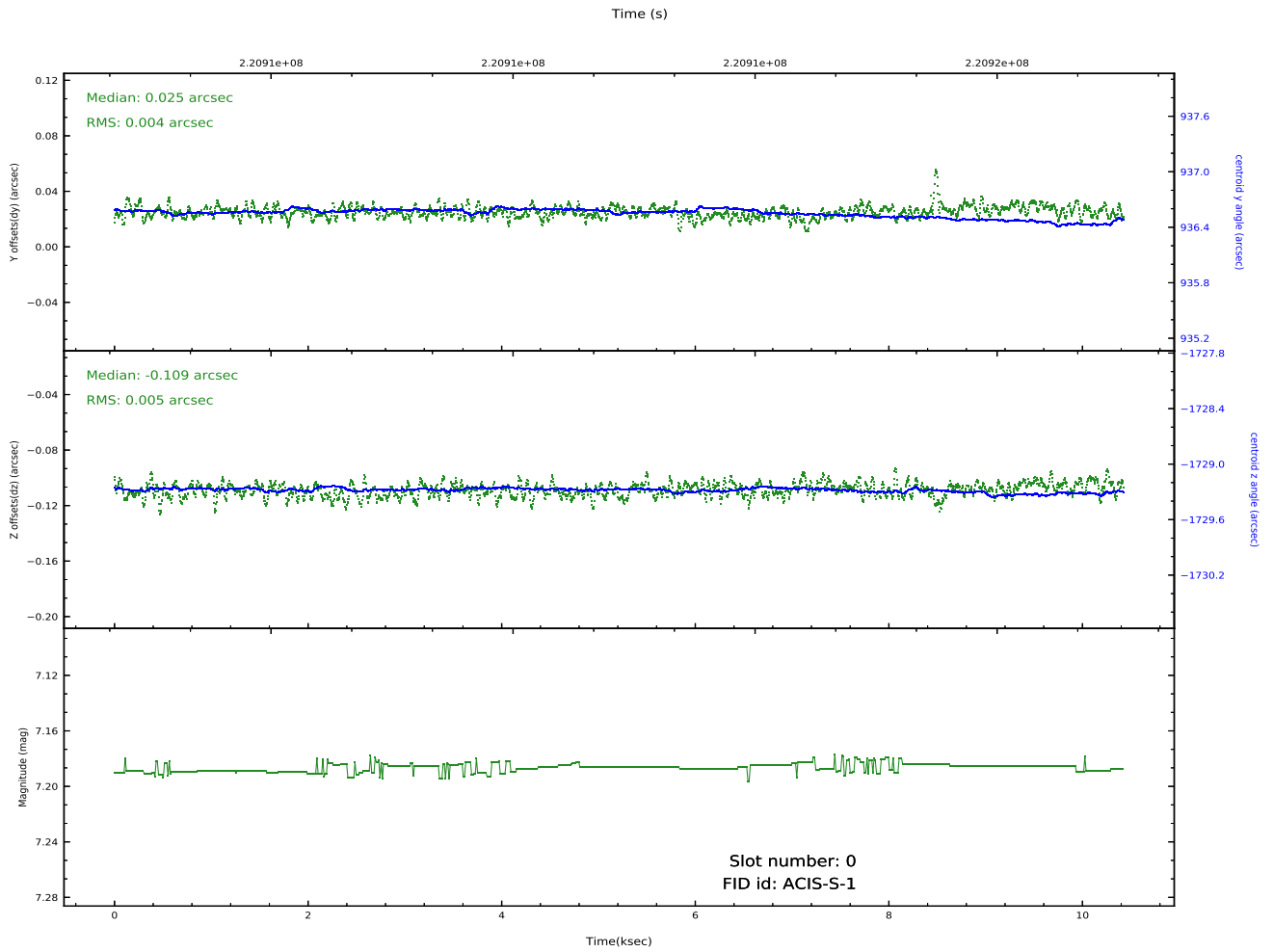
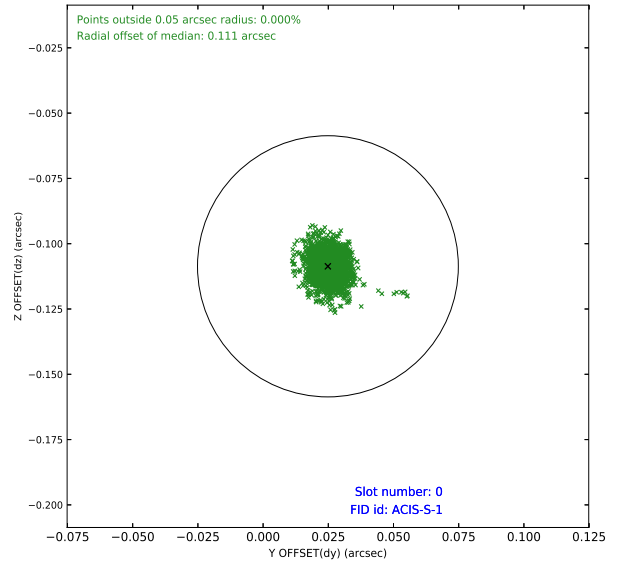
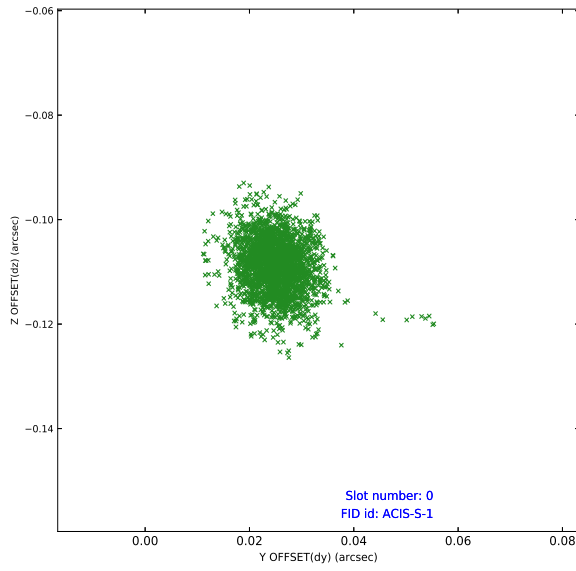


Time (s)

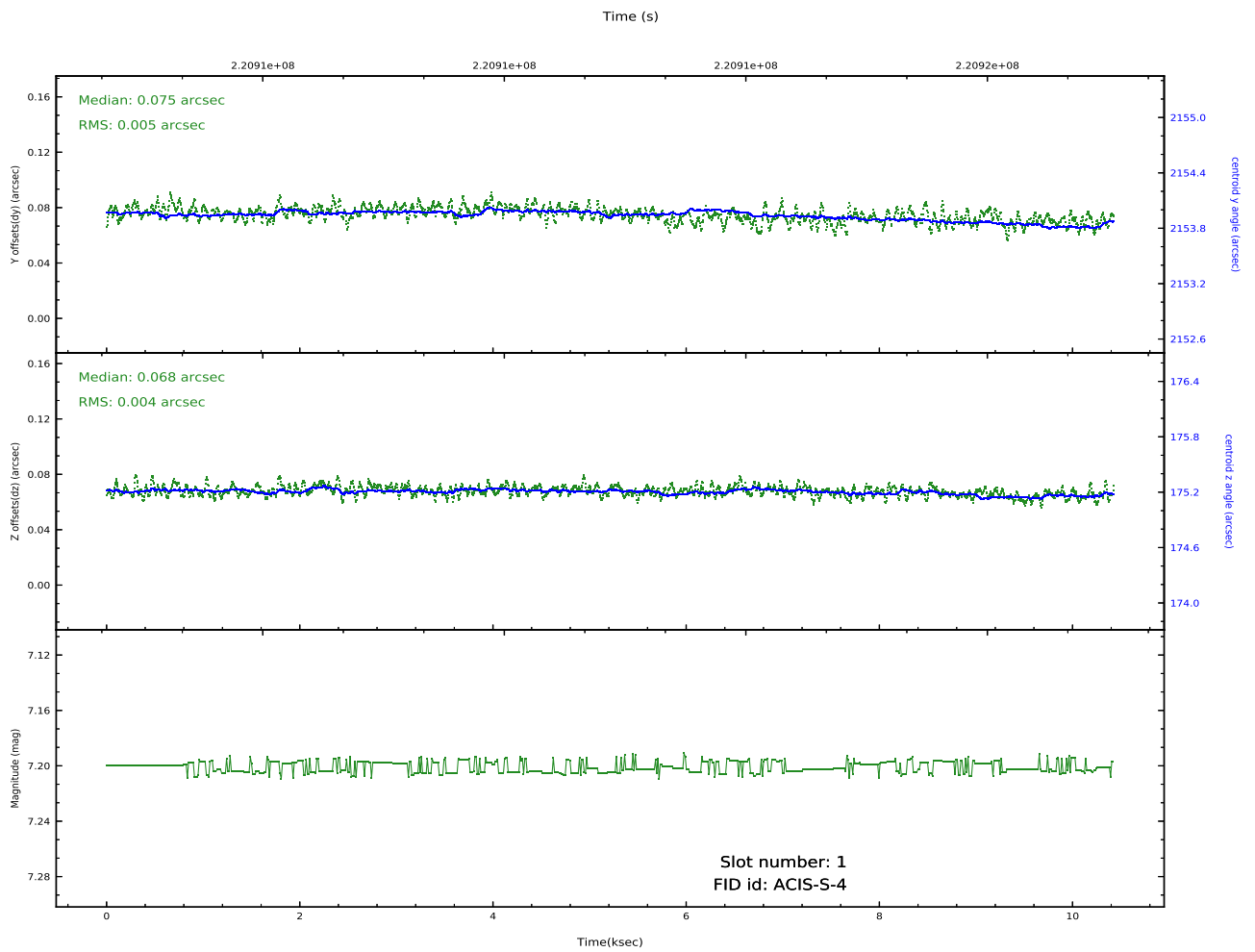
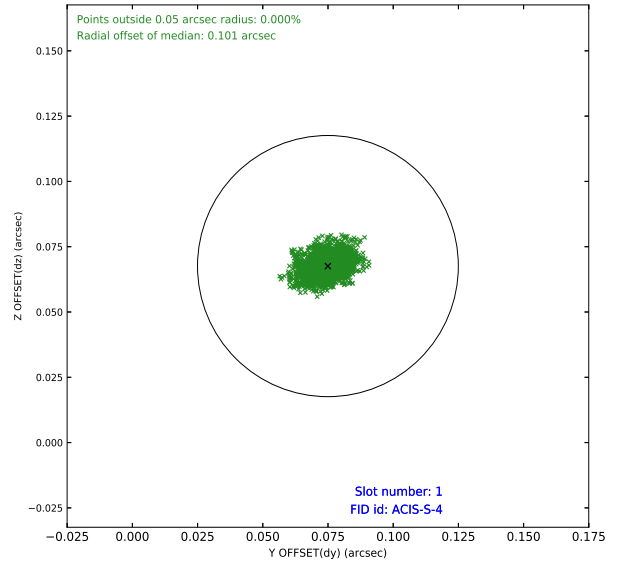
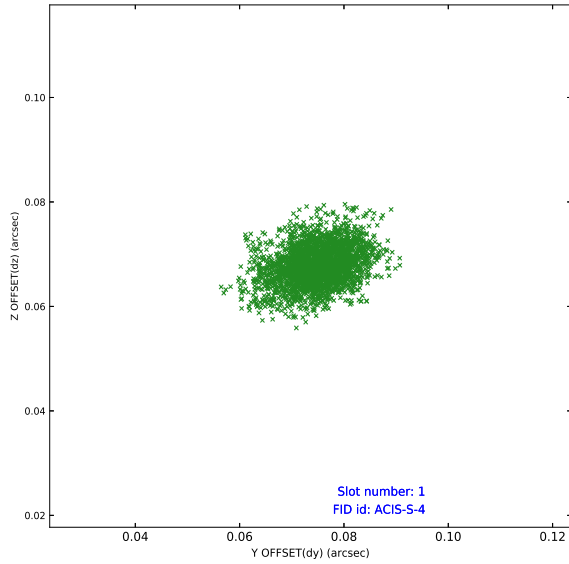


## 2.5 FID Slots

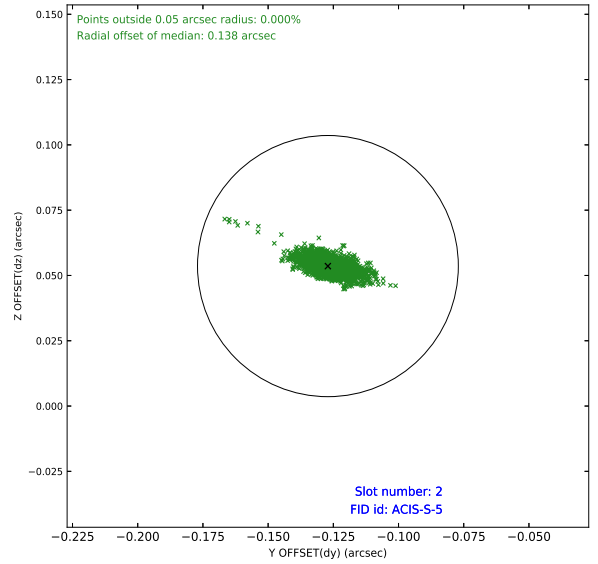
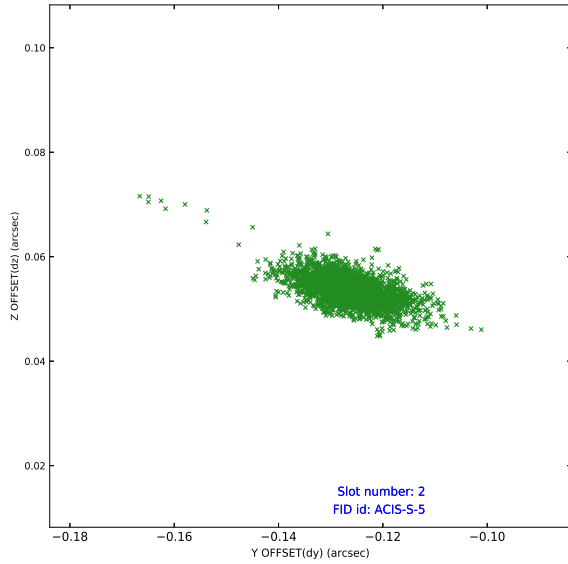
### 2.5.1 Slot 0



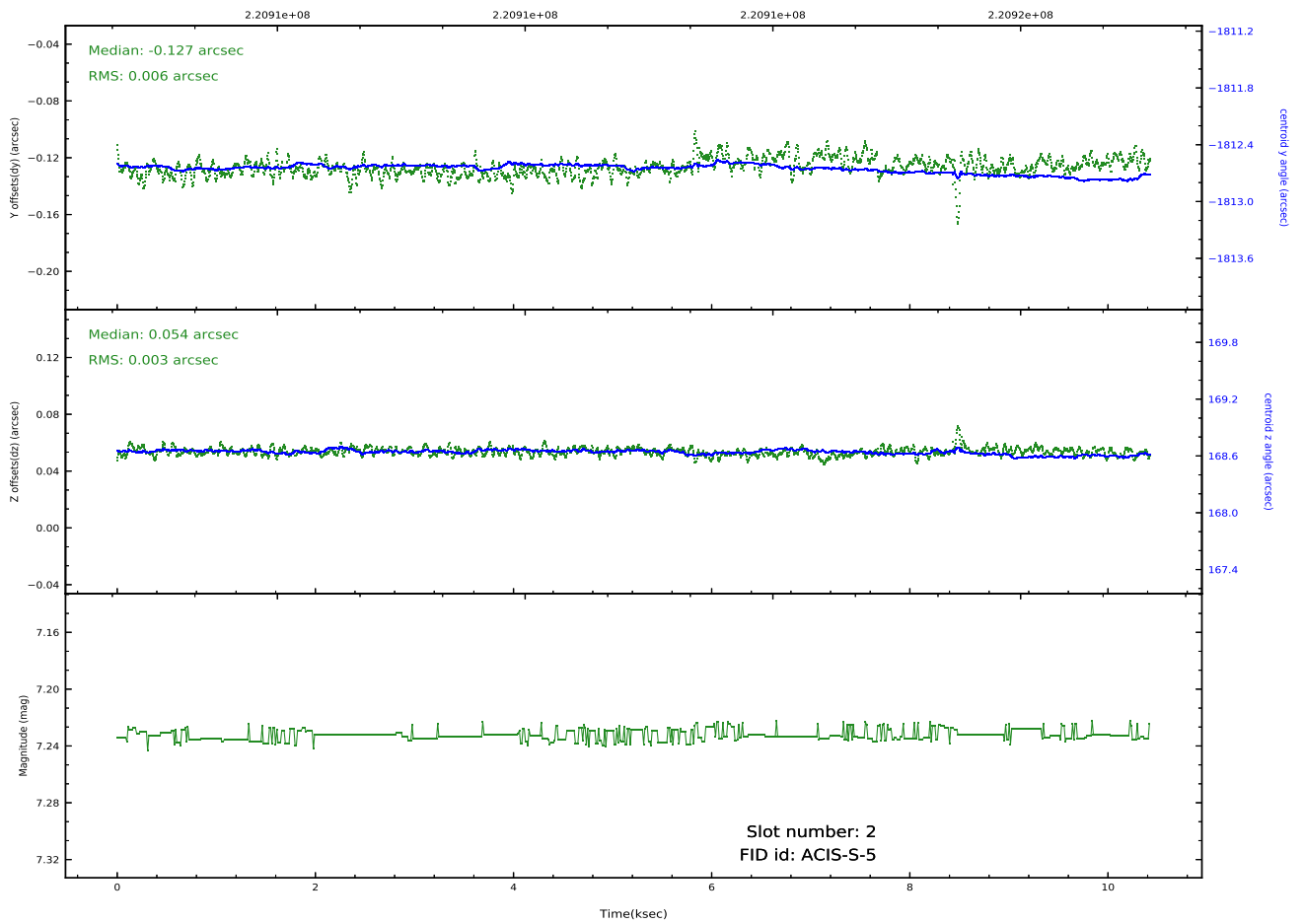
## 2.5.2 Slot 1



### 2.5.3 Slot 2



Time (s)



# A Summary

## A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2020.10.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.42219

## A.2 Comments