

# V&V Reference Report

## L2 ASCDS Version : 10.9.1

Observation 6203 - L2 Version 4  
Chandra X-Ray Center

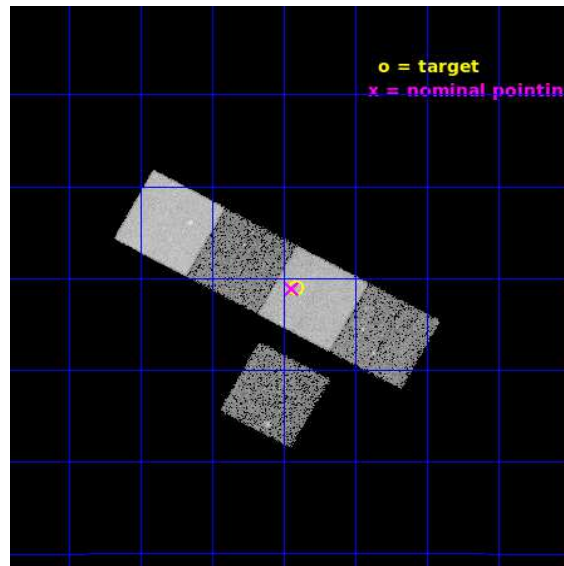
L2 Processing Date : Oct 6 2020

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# 1 Front

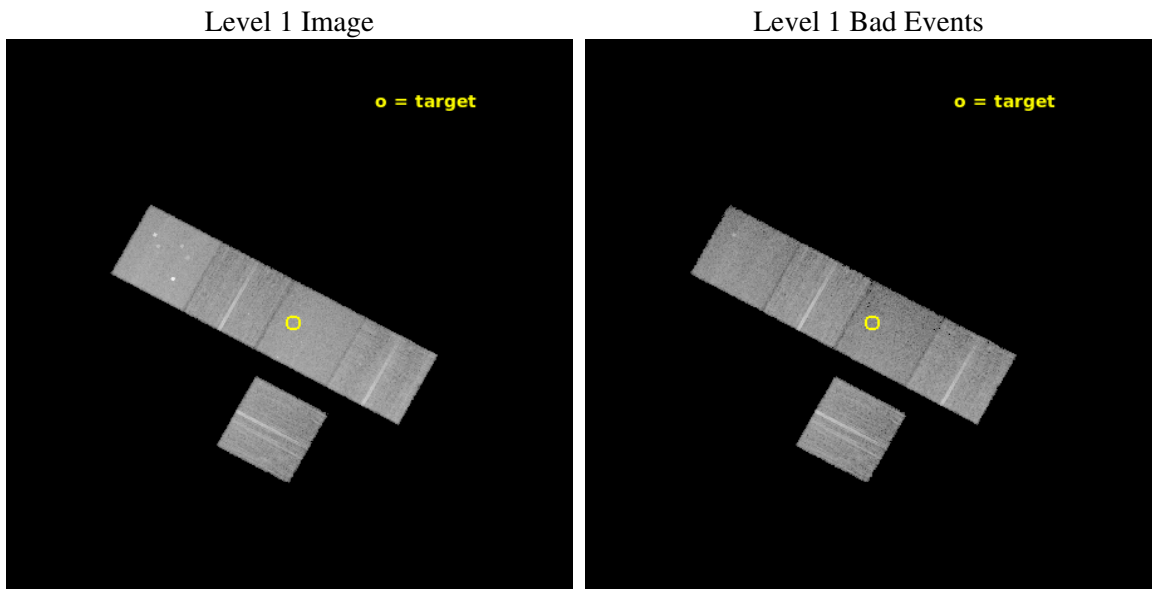
seq_num	800501	Sequence number
obs_id	6203	Observation id
title	HI-Deficient Ultracompact Groups	Proposal title
observer	Prof Trevor Ponman	Principal investigator
object	HCG 40	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	144.727083	Observer's specified target RA [deg]
dec_targ	-4.851944	Observer's specified target Dec [deg]
ra_nom	144.73569929702	Nominal RA [deg]
dec_nom	-4.8523846699931	Nominal Dec [deg]
roll_nom	28.660778838748	Nominal Roll [deg]
revision	4	Processing version of data
ontime	15239.599970669	Sum of GTIs [s]
livetime	15040.483377821	Livetime [s]
ontime3	15239.599970669	Sum of GTIs [s]
ontime5	15239.599970669	Sum of GTIs [s]
ontime6	15233.317970216	Sum of GTIs [s]
ontime7	15239.599970669	Sum of GTIs [s]
ontime8	15239.599970669	Sum of GTIs [s]
l2events	130432	Number of level 2 events



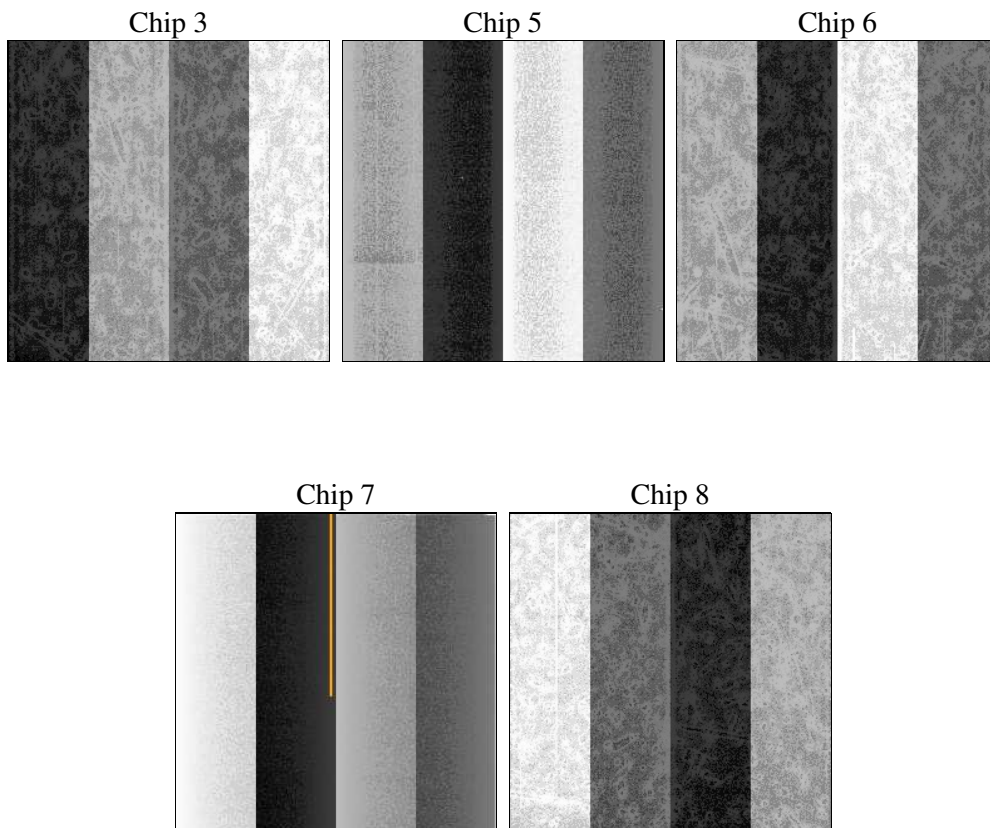
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	15060.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	15239.599970669	Sum of GTIs [s]
caldbver	4.9.2	&#160	ontime3	15239.599970669	Sum of GTIs [s]
date	2020-10-06T09:40:35	Date and time of file creation	ontime5	15239.599970669	Sum of GTIs [s]
revision	4	Processing version of data	ontime6	15233.317970216	Sum of GTIs [s]
			ontime7	15239.599970669	Sum of GTIs [s]
			ontime8	15239.599970669	Sum of GTIs [s]
			l1events	572194	Number of level 1 events

### 2.1.4 Events

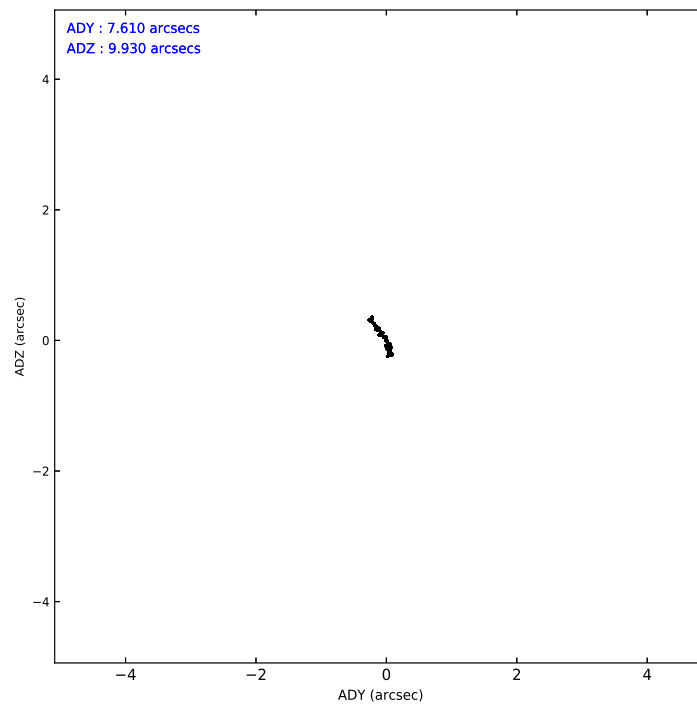
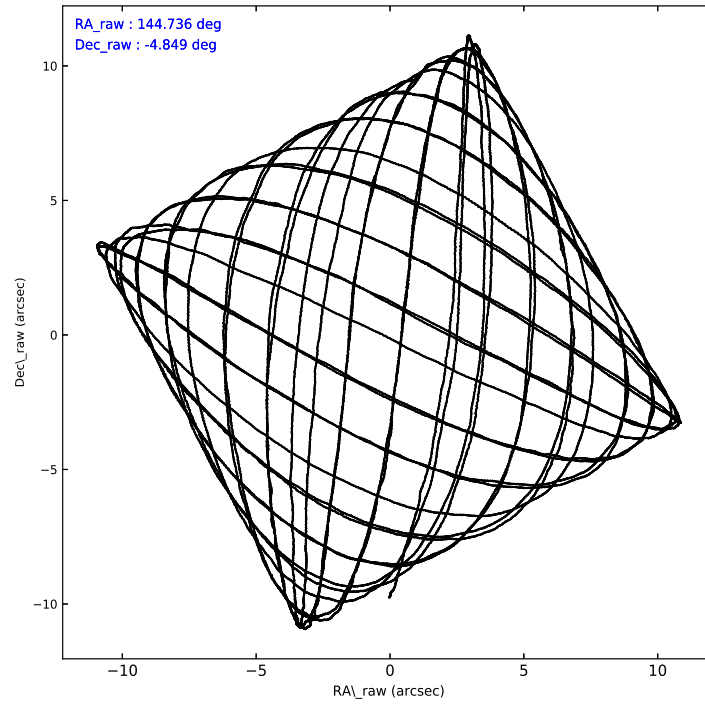
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	99504	138769	101028	111020	121873
rejected events	90547	73572	90978	63603	94895
rejected %	90%	53%	90%	57%	77%

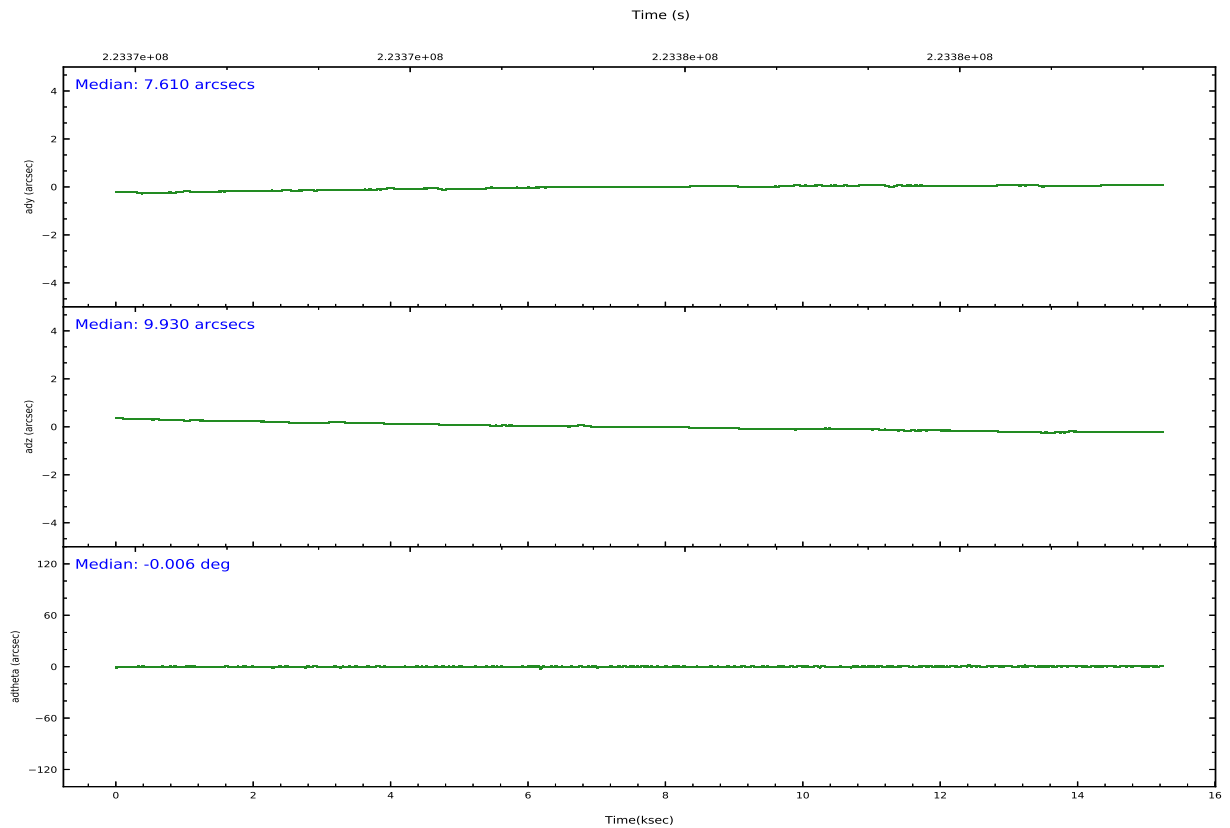
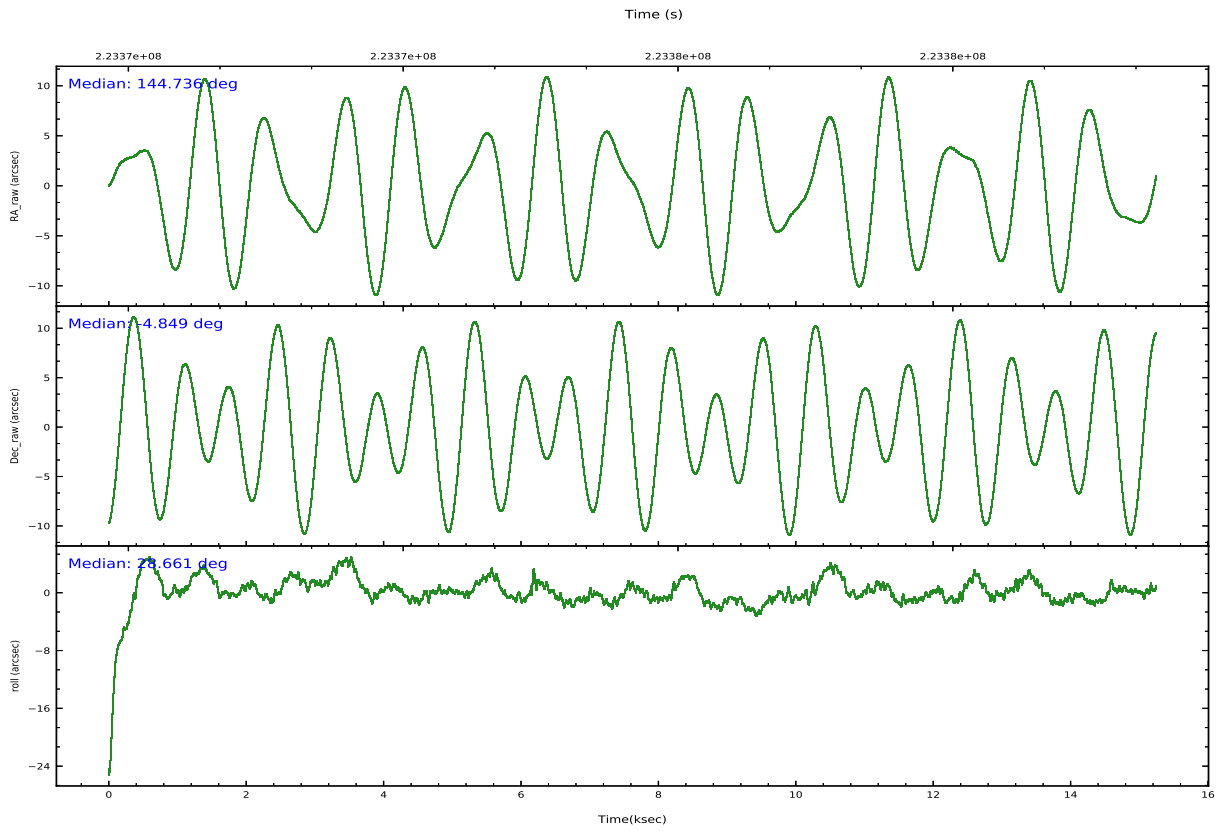
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	3434	9546	3820	4710	8819
	3%	6%	3%	4%	7%
grade 1 events	41	122	42	114	85
	0%	0%	0%	0%	0%
grade 2 events	2014	20264	2233	10236	6550
	2%	14%	2%	9%	5%
grade 3 events	1124	2908	1136	4822	3084
	1%	2%	1%	4%	2%
grade 4 events	1086	2813	1210	4923	2897
	1%	2%	1%	4%	2%
grade 5 events	3907	11025	3996	11889	5523
	3%	7%	3%	10%	4%
grade 6 events	1930	34295	2342	25976	7590
	1%	24%	2%	23%	6%
grade 7 events	85968	57796	86249	48350	87325
	86%	41%	85%	43%	71%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-35678	ACIS-35678	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	144.722389	144.73569929702	Subarray requested	NONE	NONE
[deg] Pointing Dec	-4.872313	-4.8523846699931	Alternating exposures requested	N	N
[deg] Pointing Roll	28.499594	28.660778838748	[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)	223367901.184000	223366368.14713			
Observation start date	2005-01-29T06:37:17	2005-01-29T06:12:48			
[s] Observation end time (MET)	223382961.184000	223383769.57292			
Observation end date	2005-01-29T10:48:17	2005-01-29T11:02:49			
Read mode	TIMED	TIMED			

## 2.3 Aspect





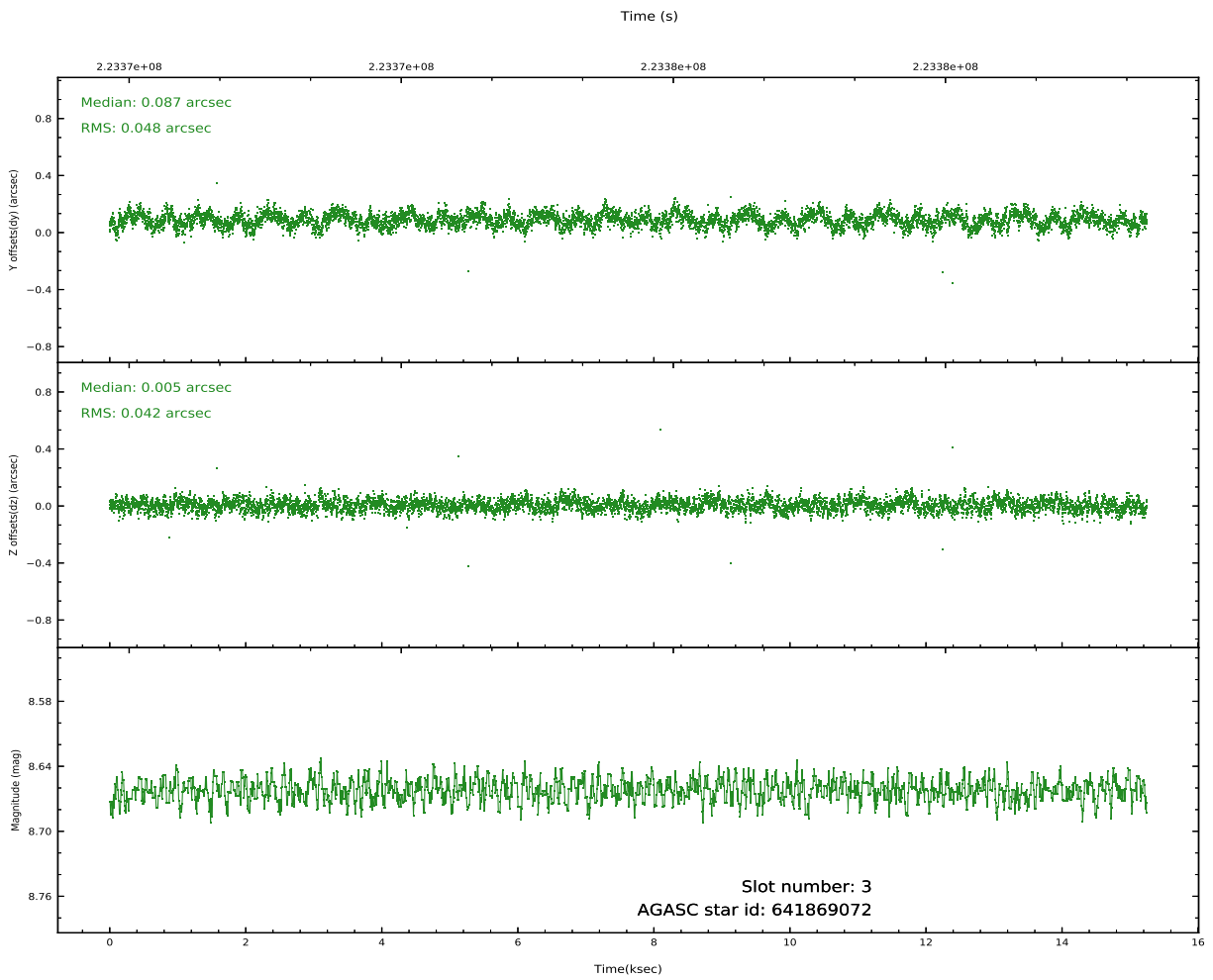
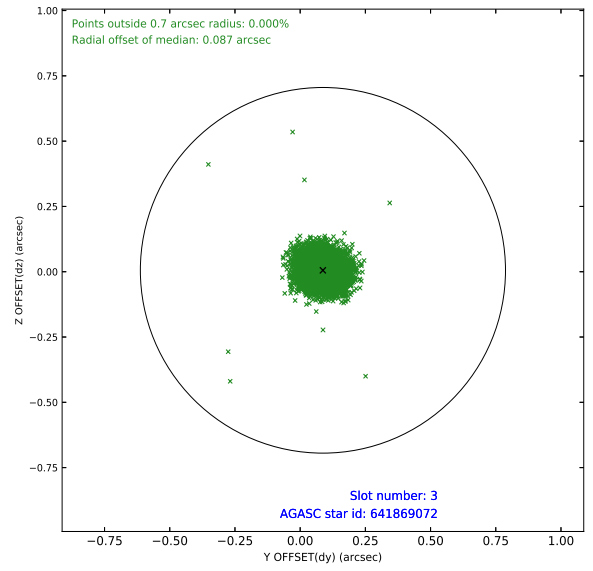
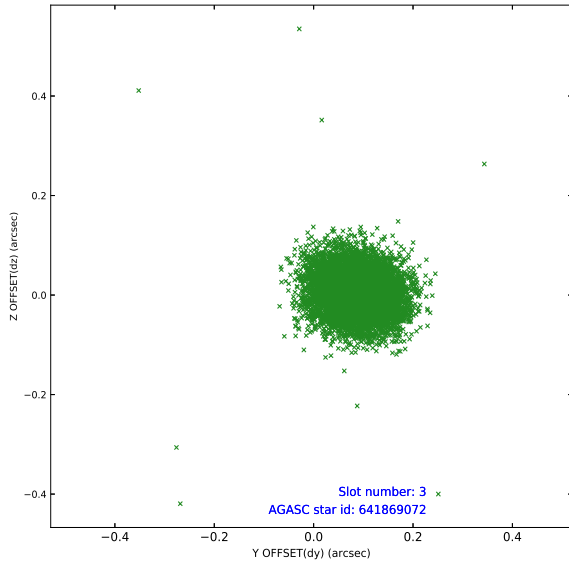
### Slot Statistics

slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_x
0	FID		ACIS-S-2	7.10	3719	1.000	-0.071	-0.062	0.008	0.012	0.000000	0.000000	-760.35	-1731
1	FID		ACIS-S-4	7.21	3718	1.000	0.153	0.051	0.006	0.011	0.000000	0.000000	2152.95	177
2	FID		ACIS-S-5	7.23	3717	1.000	-0.113	0.020	0.007	0.012	0.000000	0.000000	-1812.92	170
3	GUIDE	used	641869072	8.66	7436	1.000	0.087	0.005	0.067	0.108	144.906831	-4.212729	1715.08	1770
4	GUIDE	used	641870256	9.02	7429	1.000	-0.050	0.064	0.084	0.136	144.908269	-4.267747	1625.25	1594
5	GUIDE	used	641871288	7.99	7434	1.000	-0.006	-0.054	0.061	0.095	144.780319	-4.378727	1030.81	1462
6	GUIDE	used	642002944	9.31	7433	1.000	-0.074	-0.025	0.095	0.153	145.178833	-4.409438	2234.93	682
7	GUIDE	used	642261760	7.62	7437	1.000	0.041	0.011	0.059	0.098	144.550271	-5.166538	-1047.32	-636

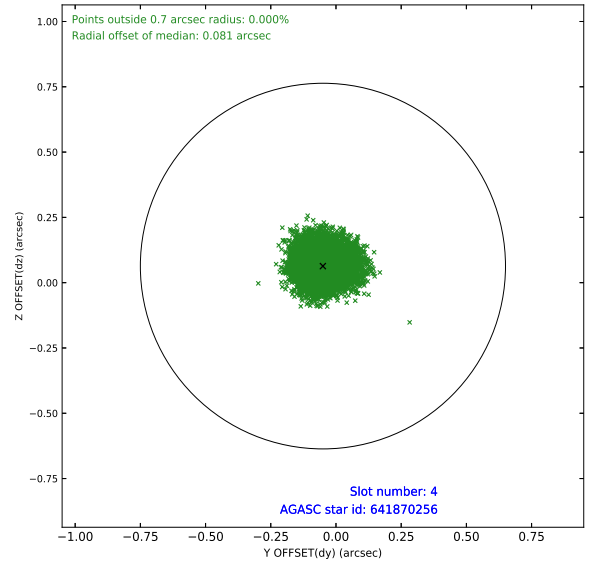
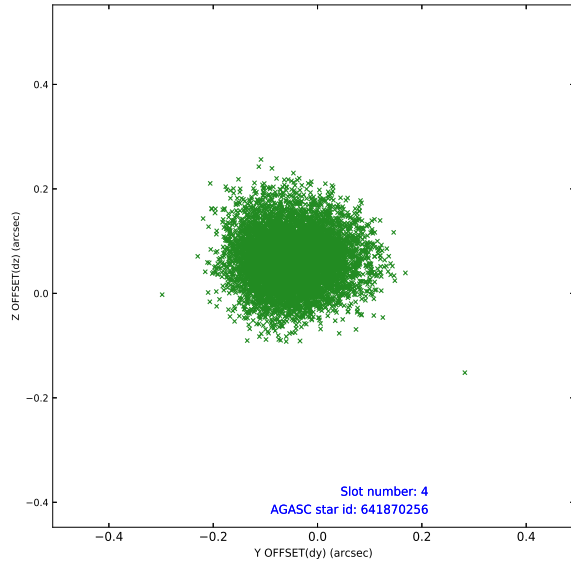
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## 2.4 Star Slots

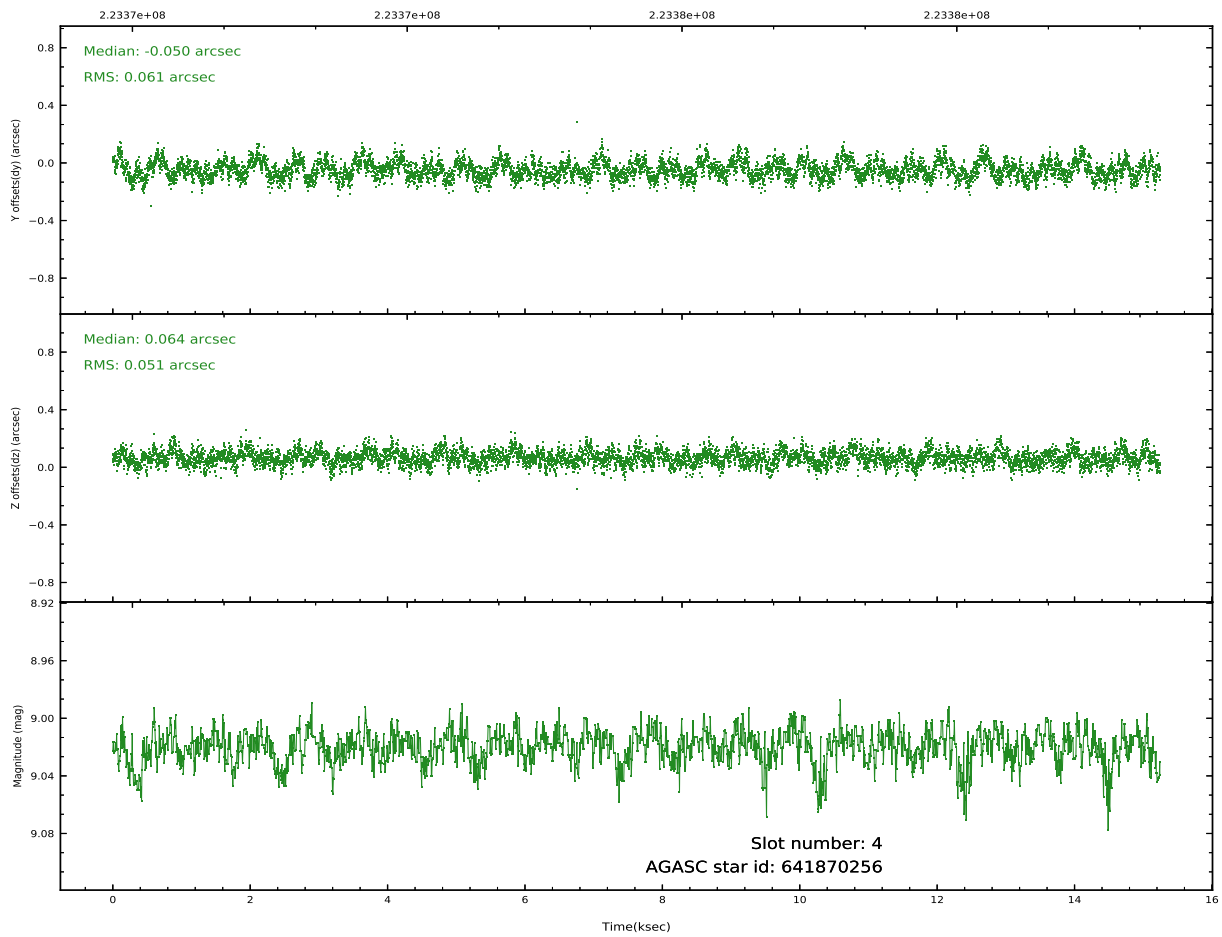
### 2.4.1 Slot 3



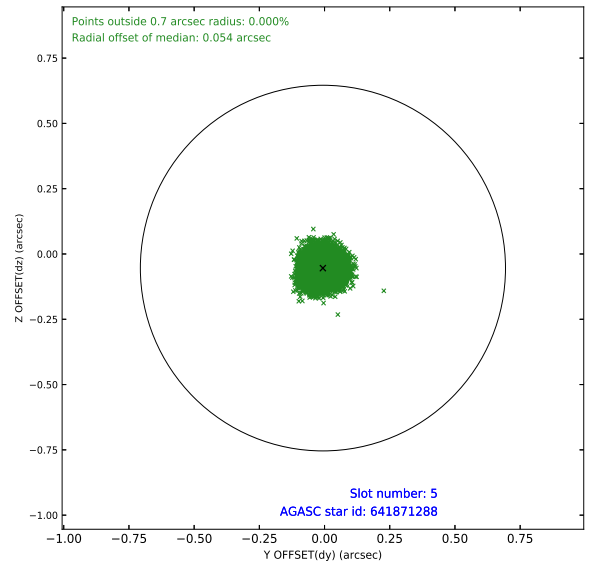
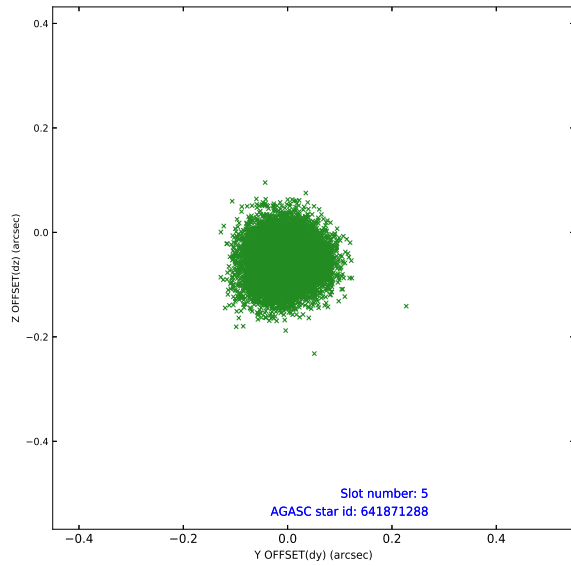
## 2.4.2 Slot 4



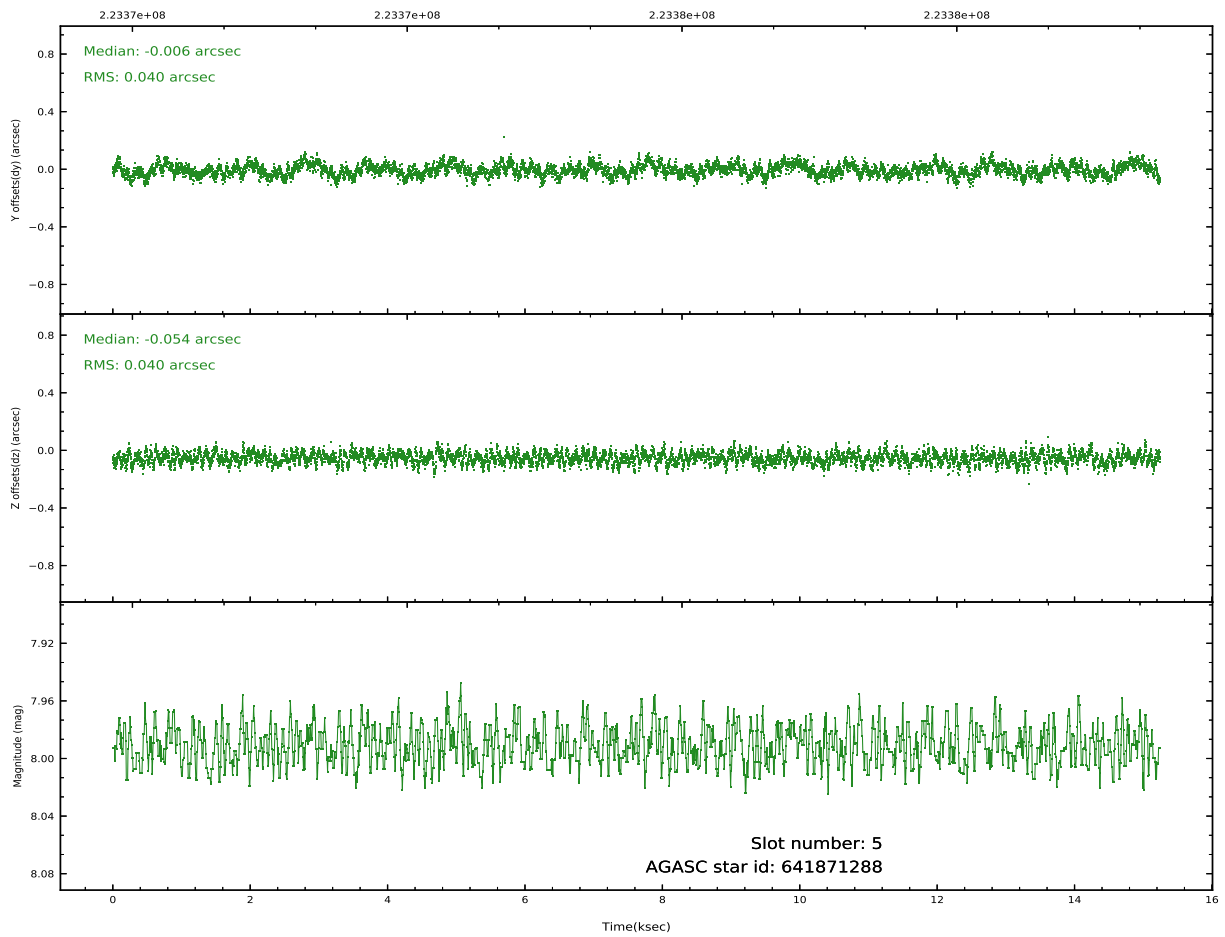
Time (s)



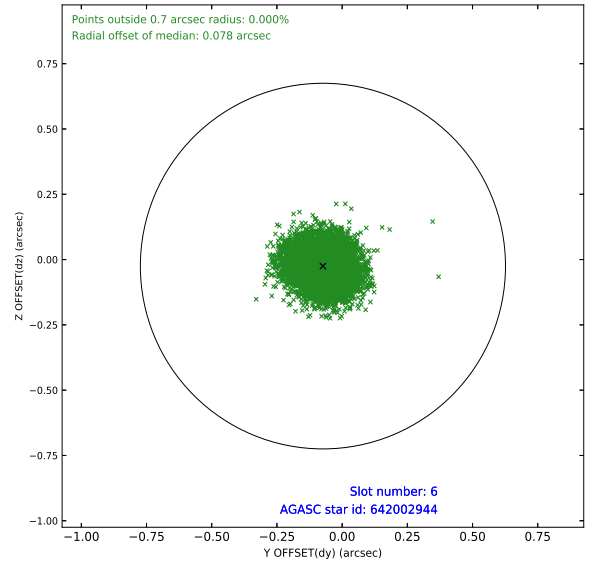
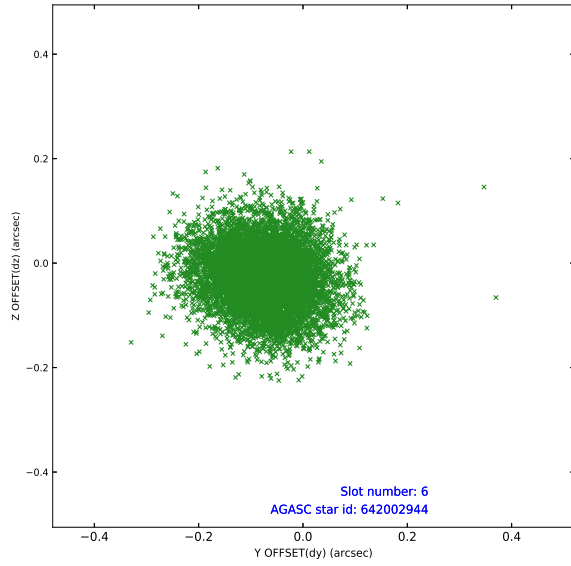
### 2.4.3 Slot 5



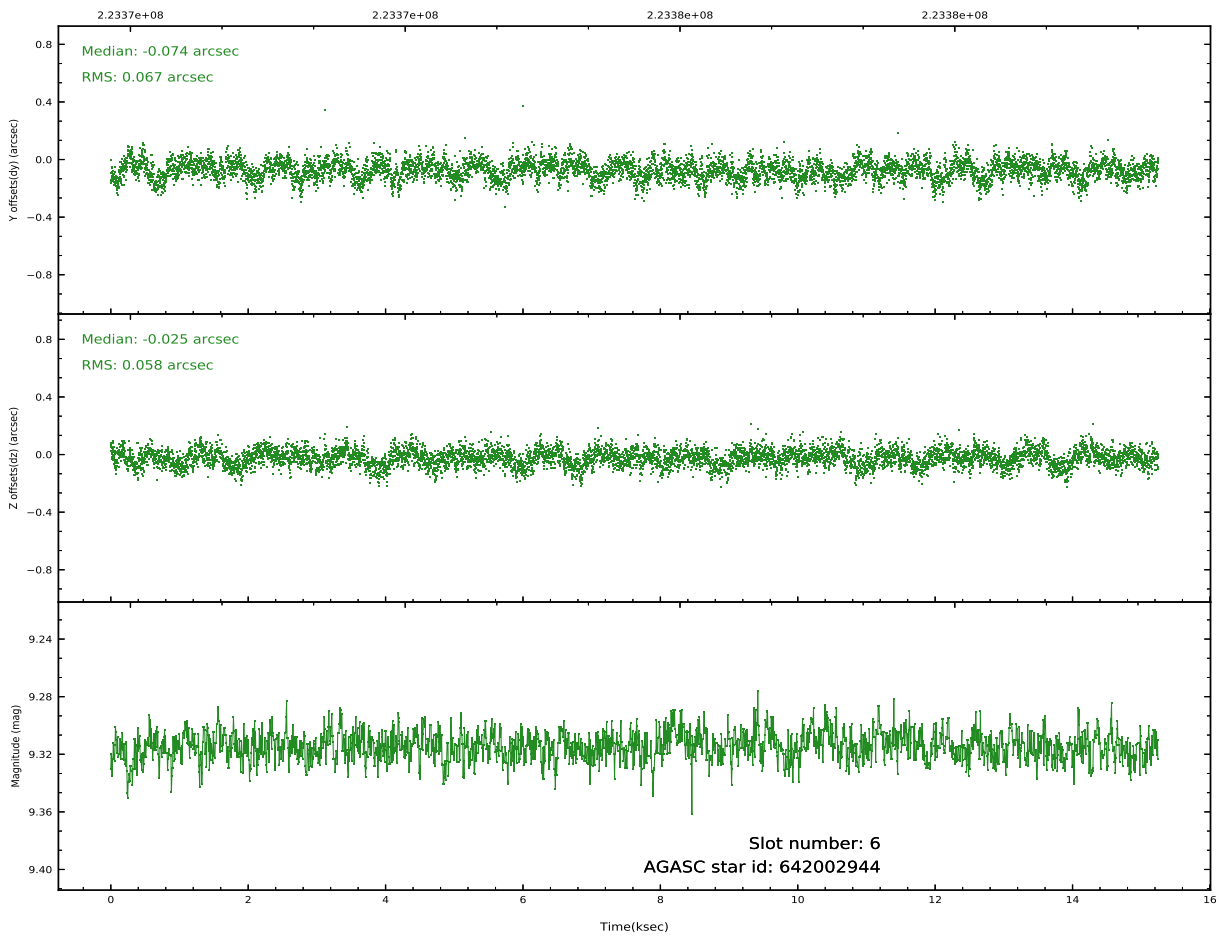
Time (s)



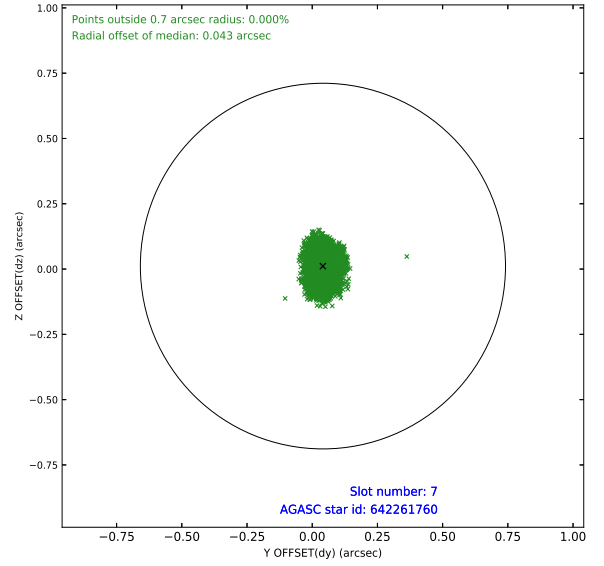
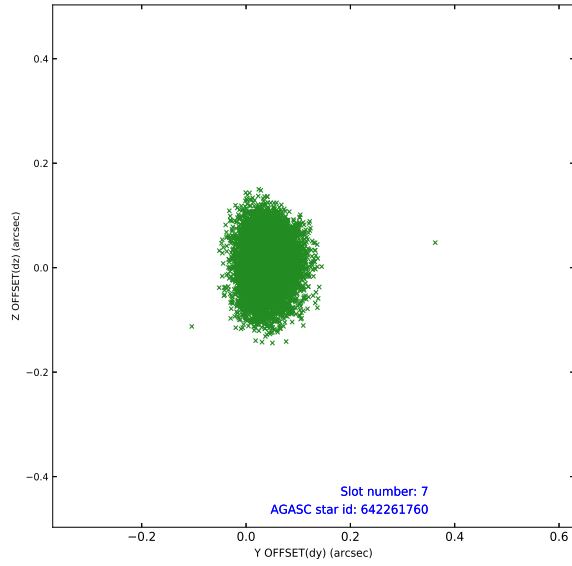
## 2.4.4 Slot 6



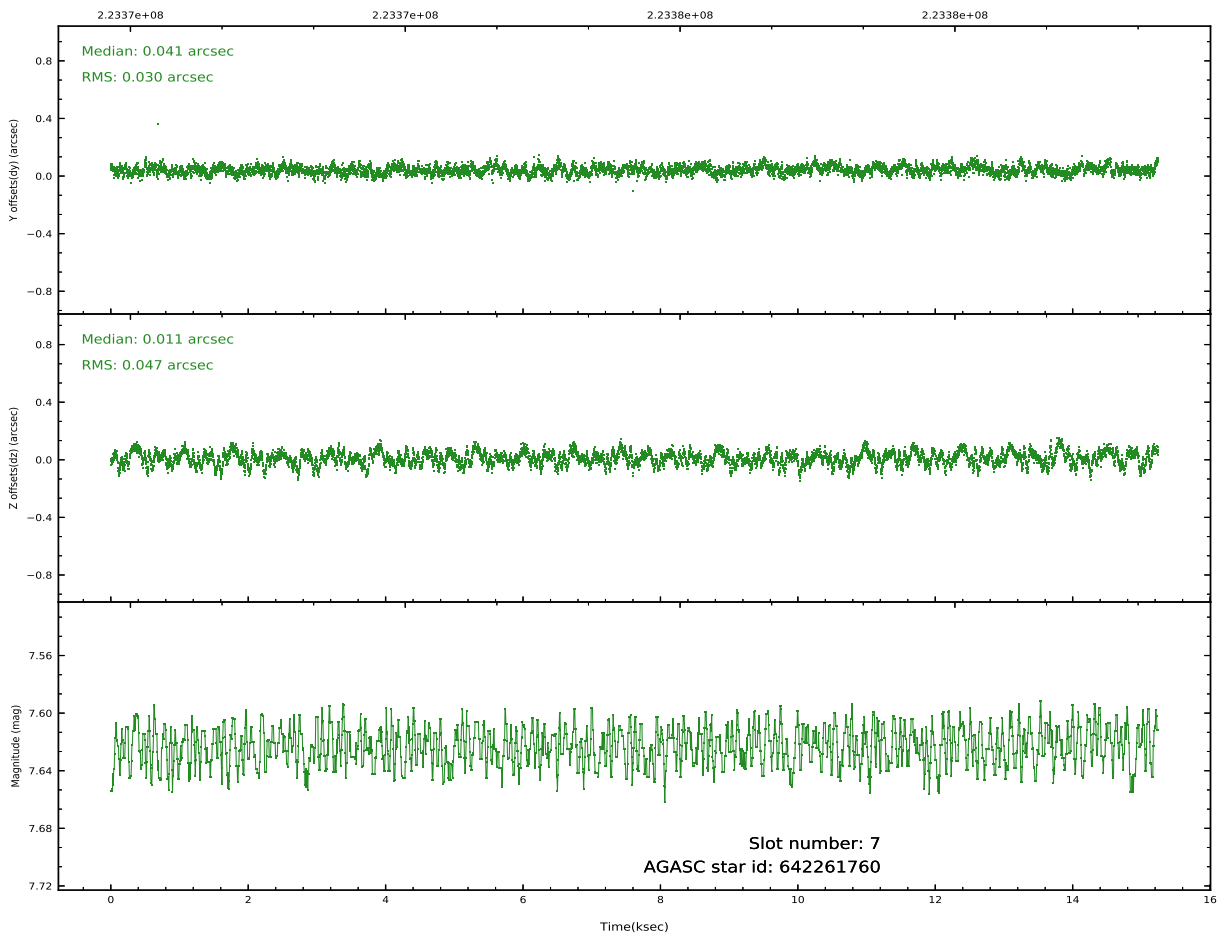
Time (s)



## 2.4.5 Slot 7

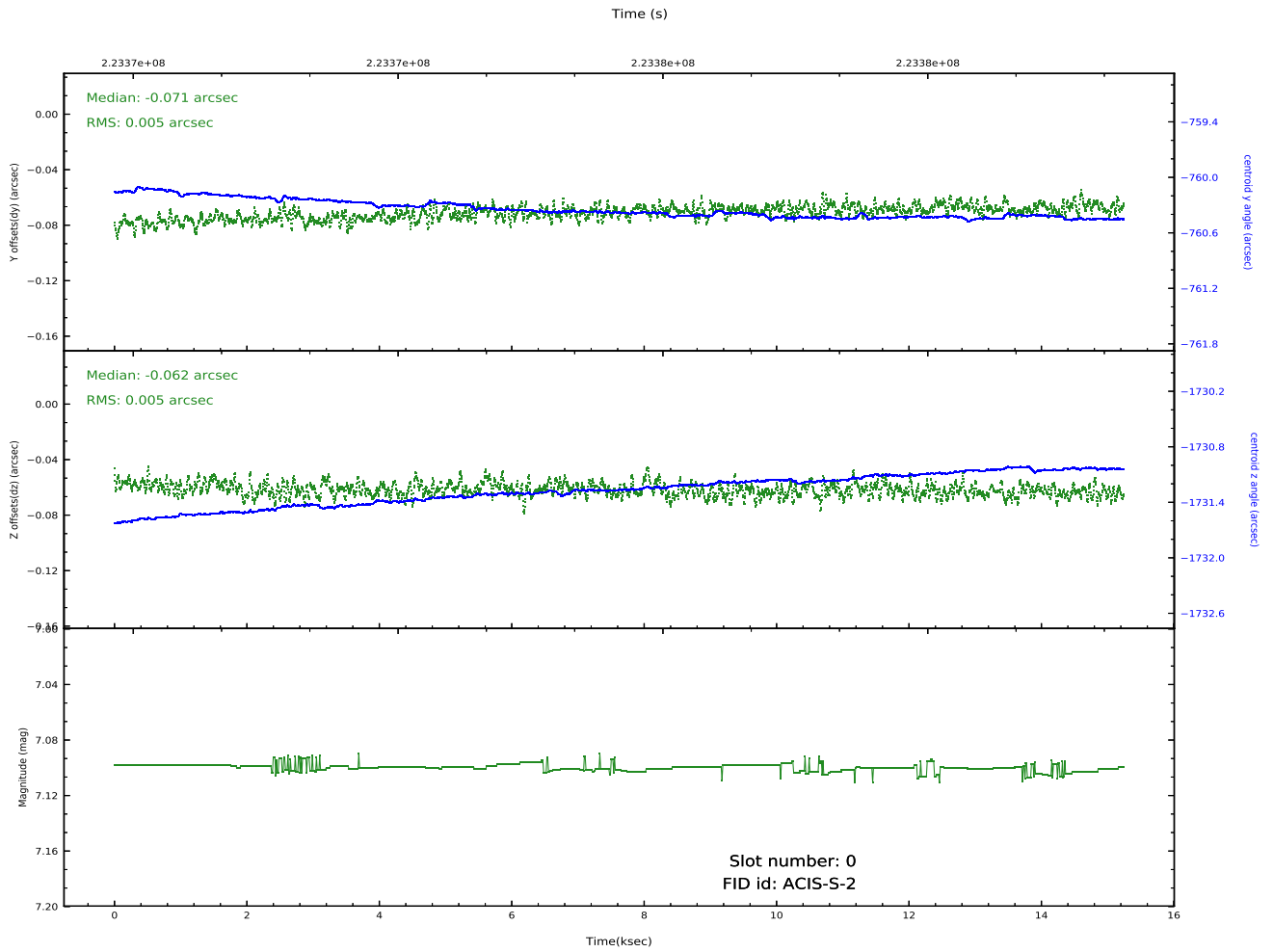
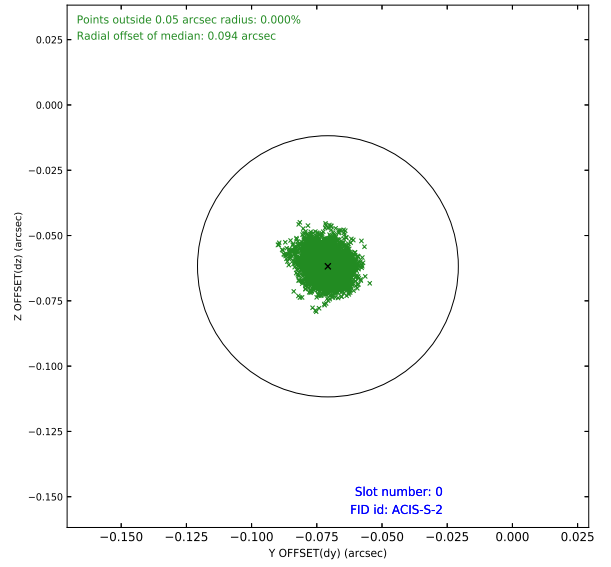
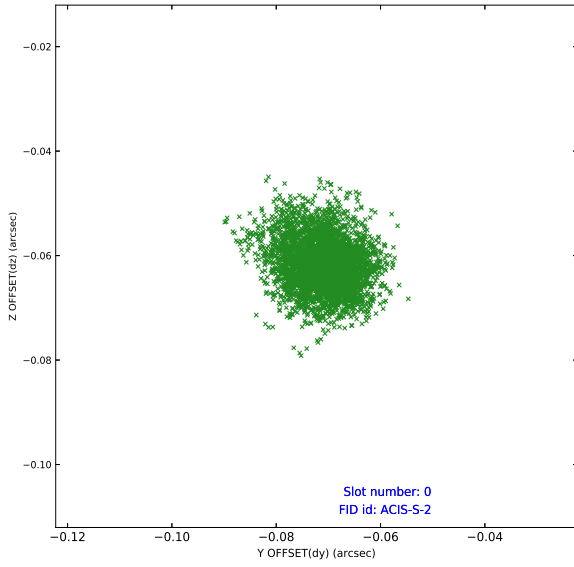


Time (s)

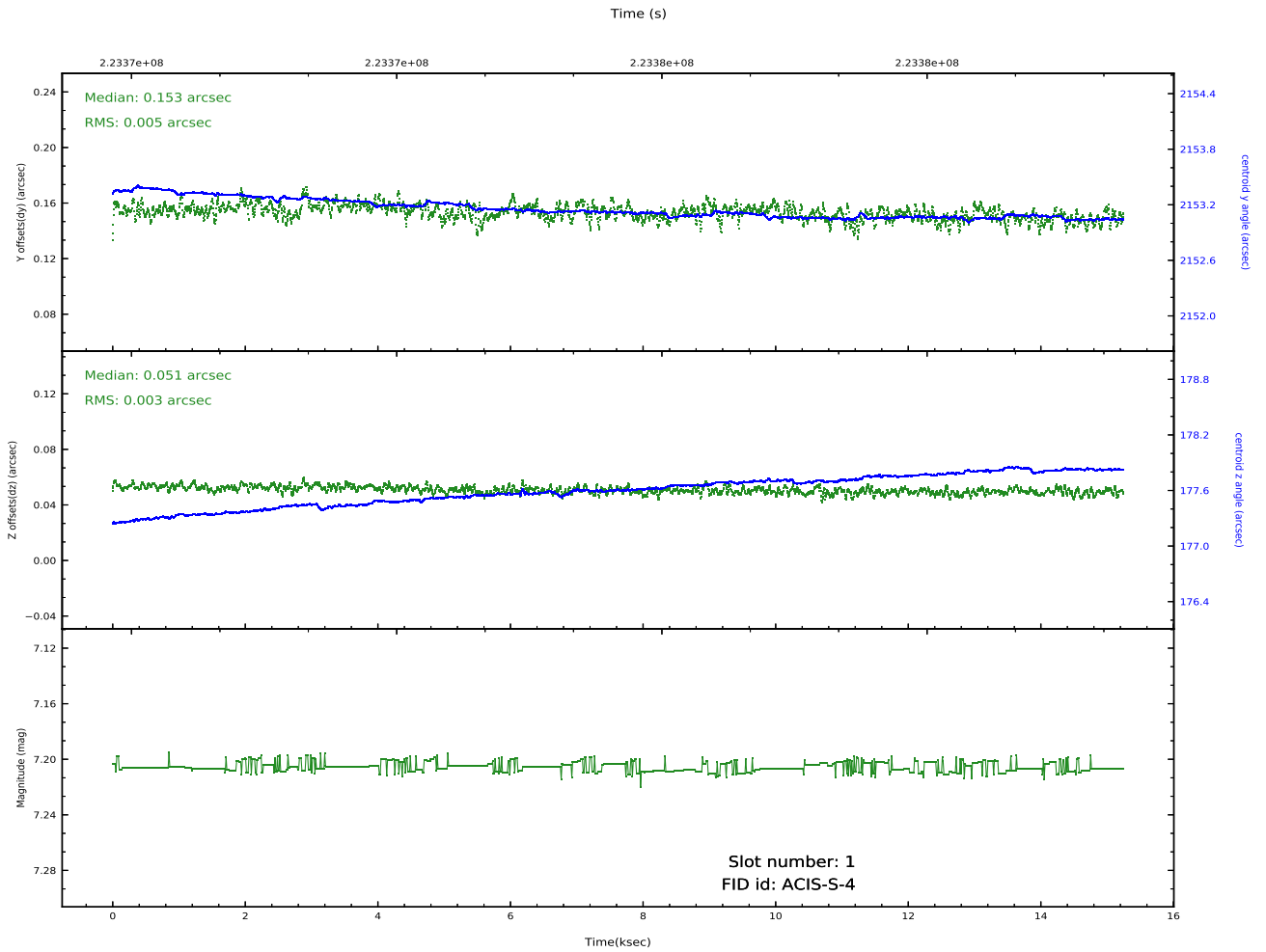
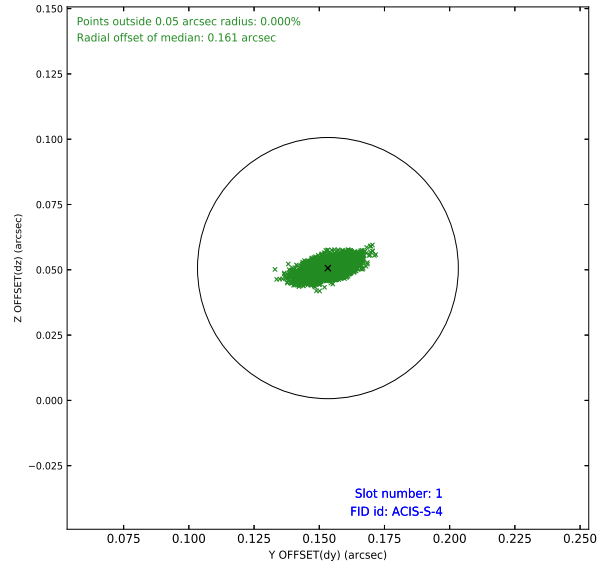
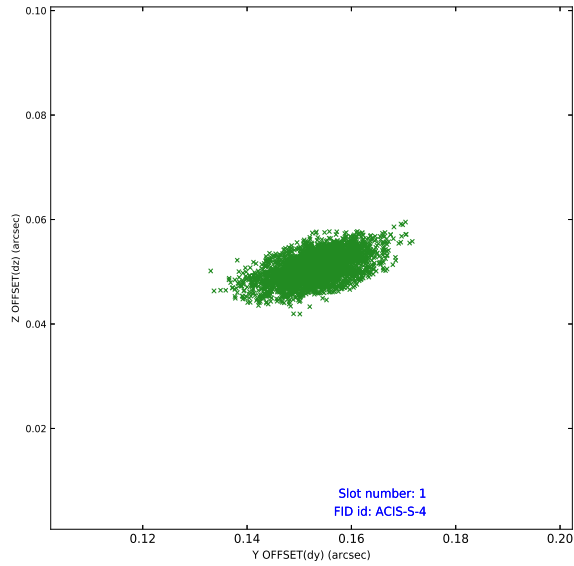


## 2.5 FID Slots

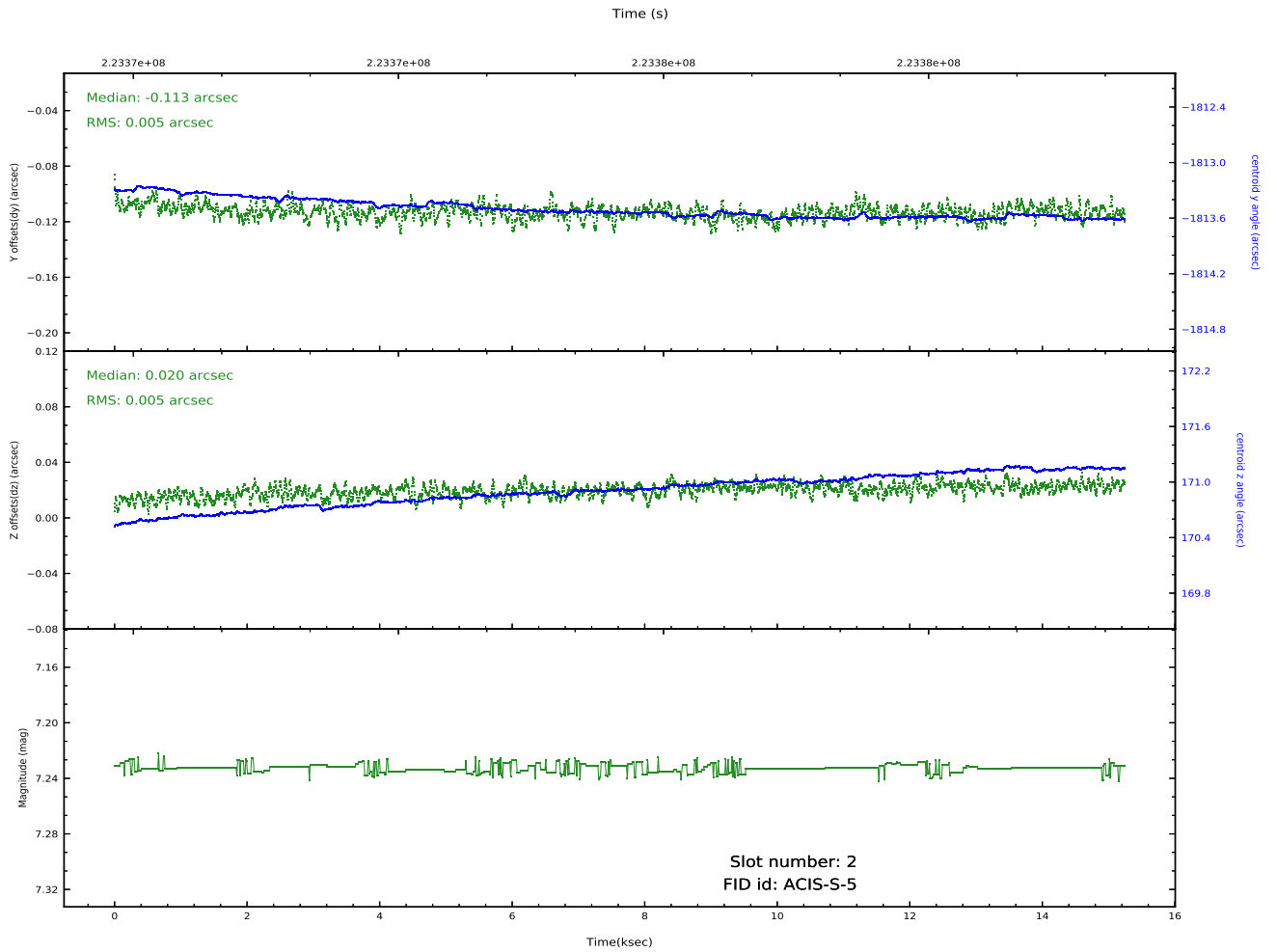
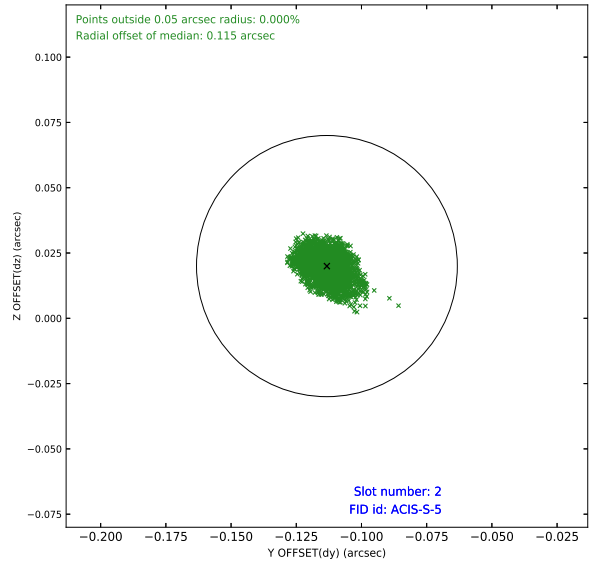
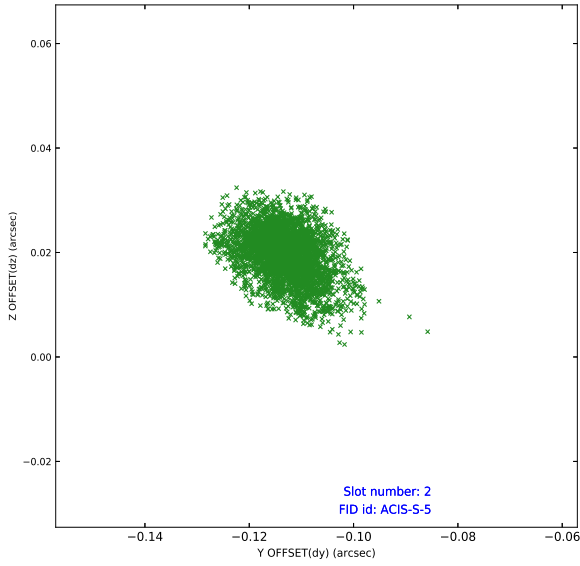
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



# A Summary

## A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2020.10.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	15.23959

## A.2 Comments