

# V&V Reference Report

## L2 ASCDS Version : 10.9.1

Observation 4596 - L2 Version 4  
Chandra X-Ray Center

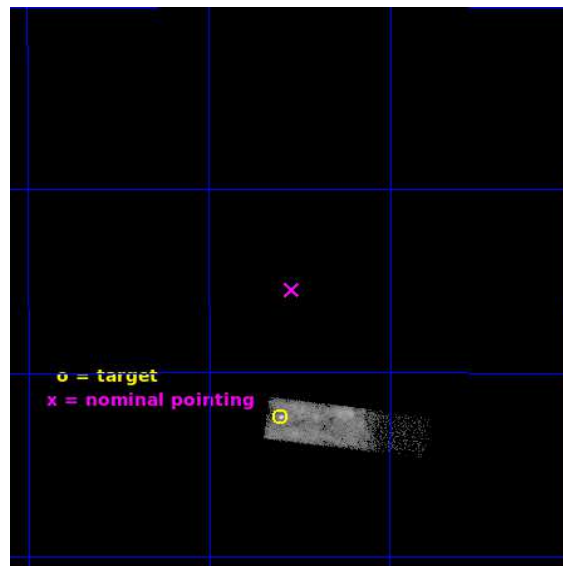
L2 Processing Date : Sep 23 2020

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# 1 Front

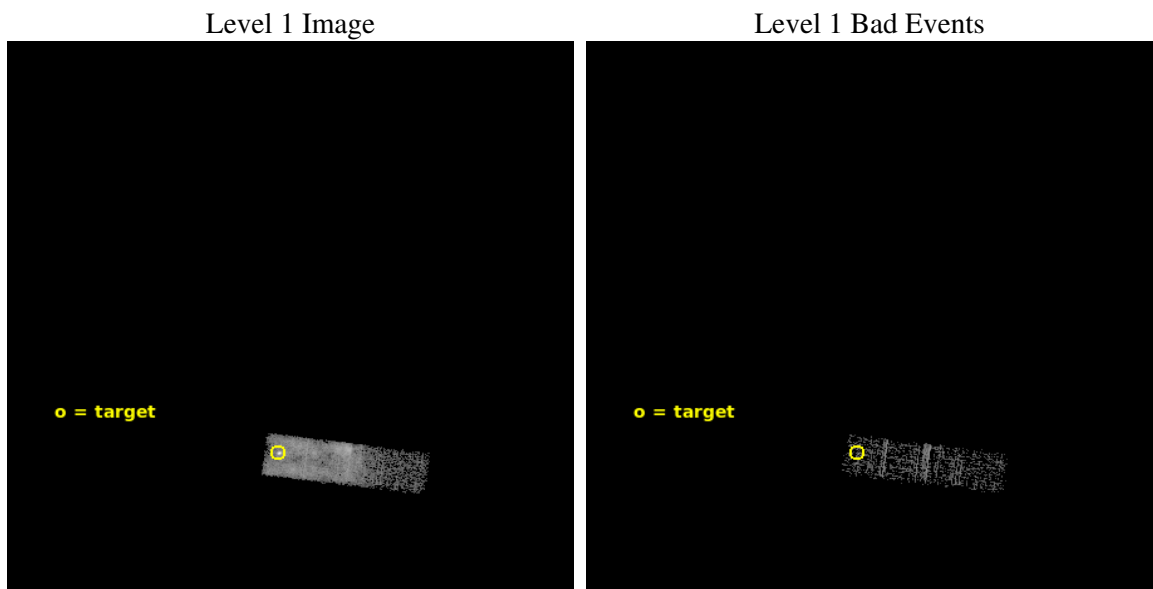
seq_num	500421	Sequence number
obs_id	4596	Observation id
title	Observation of SNR RCW103	Proposal title
observer	Gordon Garmire	Principal investigator
object	RCW103	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	244.40125	Observer's specified target RA [deg]
dec_targ	-51.040278	Observer's specified target Dec [deg]
ra_nom	244.38561359079	Nominal RA [deg]
dec_nom	-50.924892248037	Nominal Dec [deg]
roll_nom	97.468690558338	Nominal Roll [deg]
revision	4	Processing version of data
ontime	5164.8000769615	Sum of GTIs [s]
livetime	4912.7747331509	Livetime [s]
ontime3	5164.8000769615	Sum of GTIs [s]
l2events	21335	Number of level 2 events



## 2 OBI

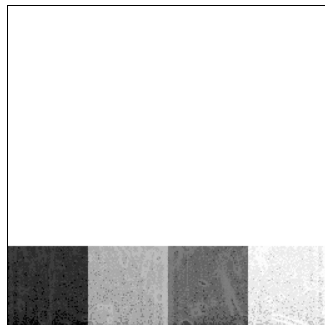
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 3



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	5164.8000769615	Sum of GTIs [s]
caldsver	4.9.2	&#160	ontime3	5164.8000769615	Sum of GTIs [s]
date	2020-09-23T15:42:48	Date and time of file creation	l1events	31192	Number of level 1 events
revision	4	Processing version of data			

### 2.1.4 Events

	<b>ccd 3</b>
level 1 events	31192
rejected events	9158
rejected %	29%

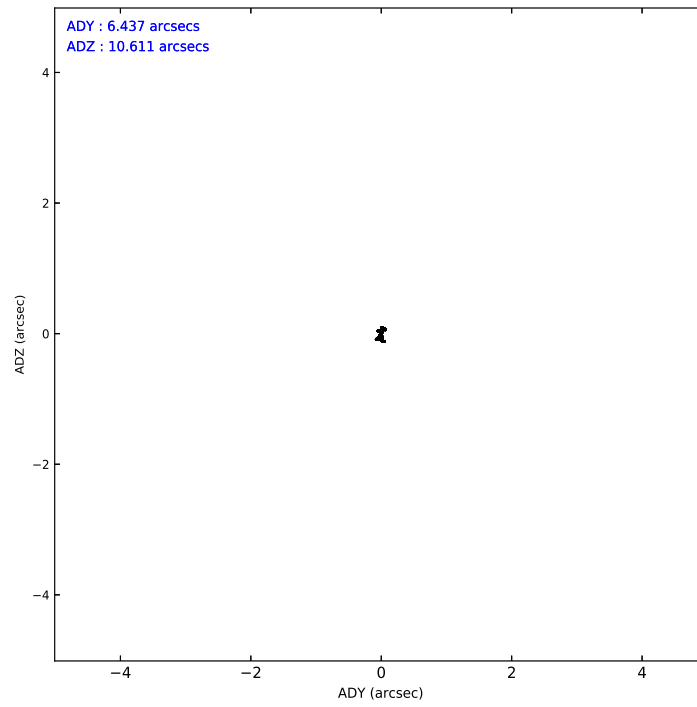
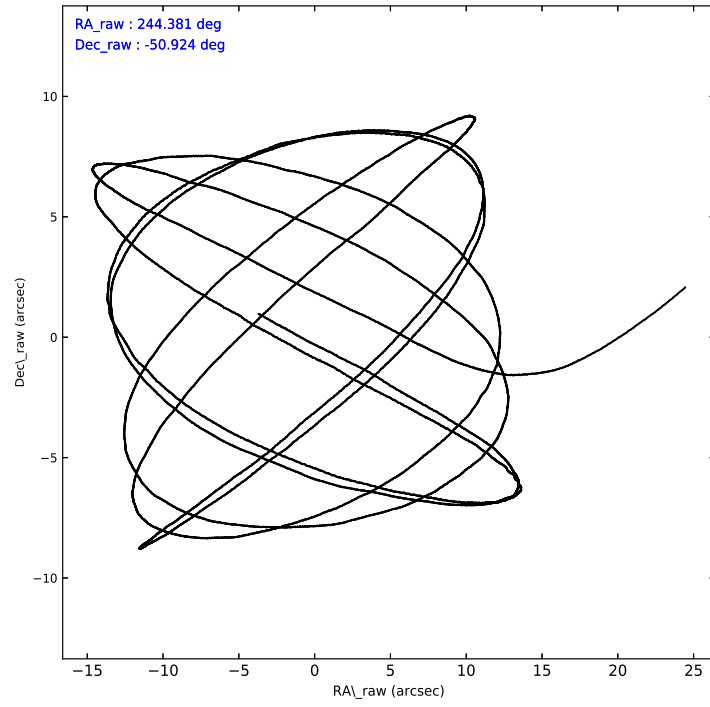
	<b>ccd 3</b>
grade 0 events	19179
	61%
grade 1 events	33
	0%
grade 2 events	2015
	6%
grade 3 events	650
	2%
grade 4 events	645
	2%
grade 5 events	127
	0%
grade 6 events	350
	1%
grade 7 events	8193
	26%

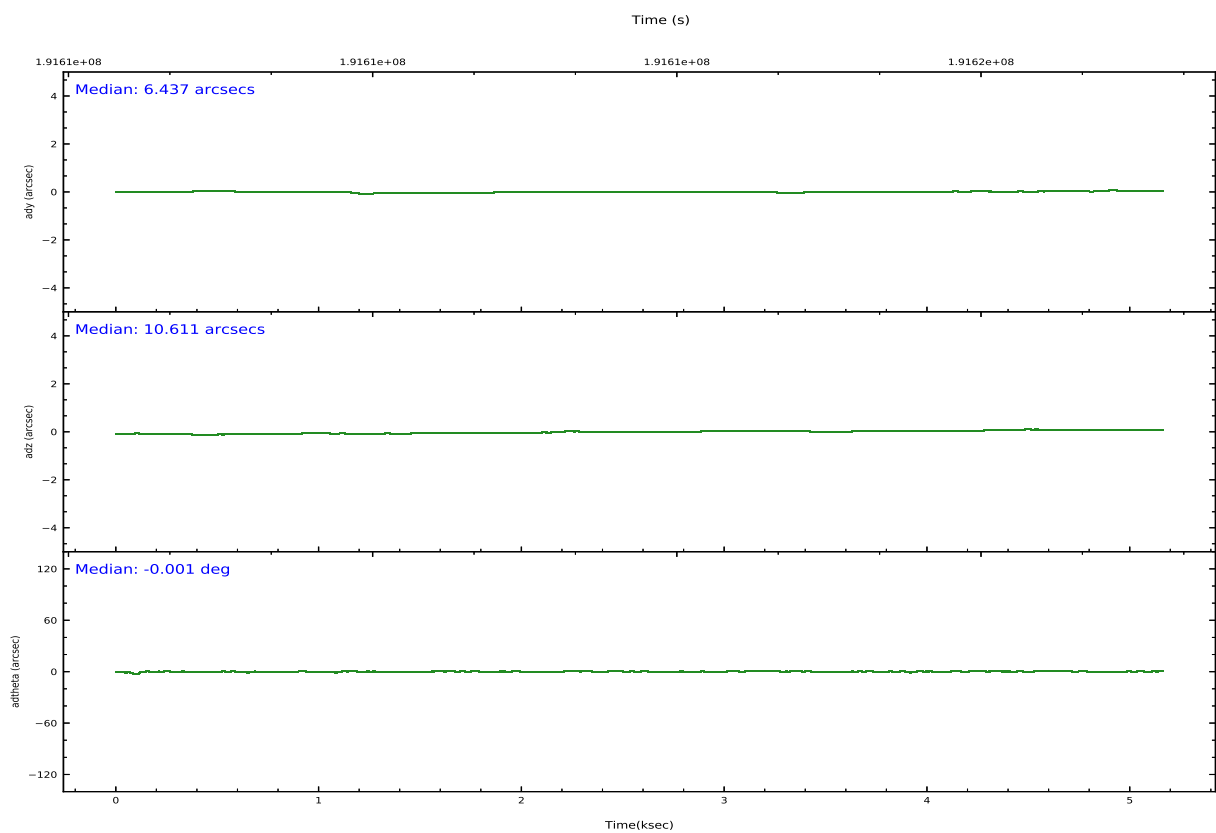
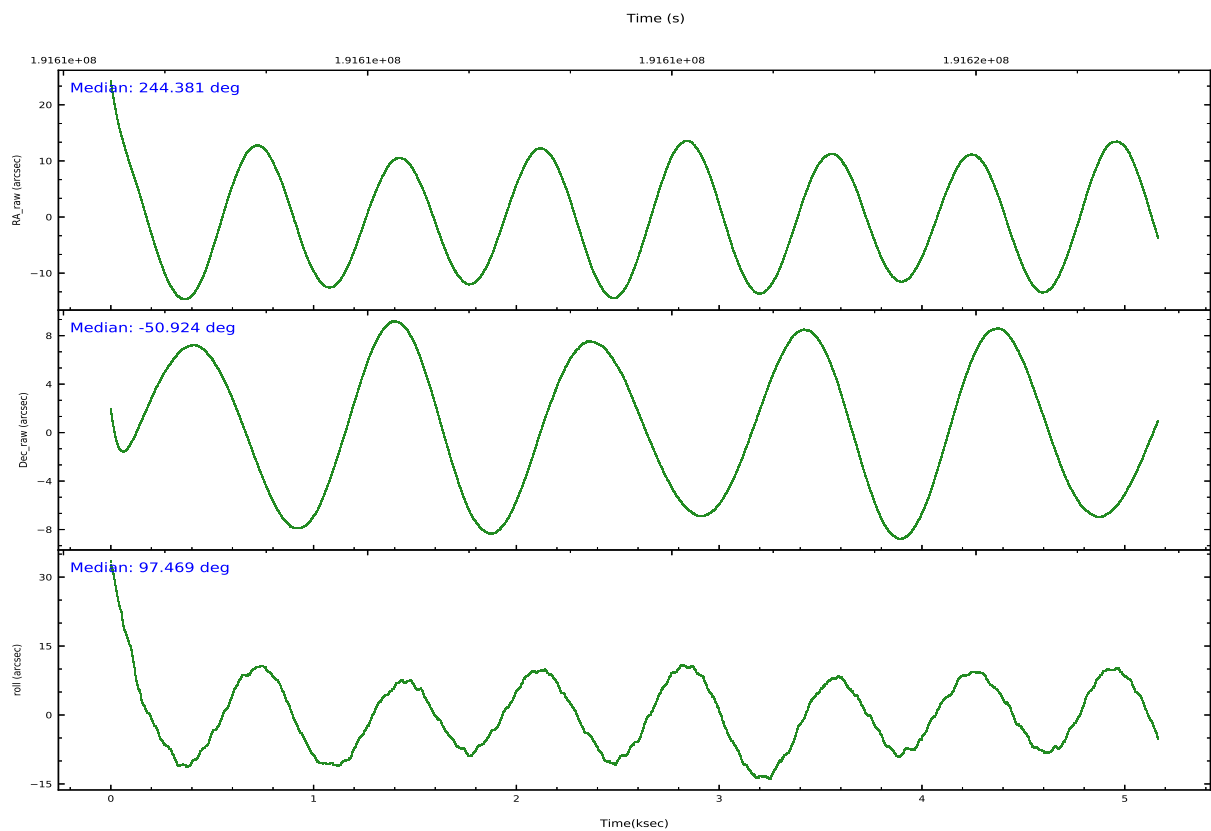


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-3	ACIS-3	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	244.406980	244.38561359079	Subarray requested	CUSTOM	1/4
[deg] Pointing Dec	-50.945044	-50.924892248037	Subarray start row	1	1
[deg] Pointing Roll	97.293052	97.468690558338	Subarray row count	256	256
[mm] SIM focus pos	-0.782348	-0.7809083437167272	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001439871863259334	[s] Primary exposure time	0.000000	0.8
[mm] SIM translation stage pos	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	191611398.184000	191610406.11103			
Observation start date	2004-01-27T17:22:14	2004-01-27T17:06:46			
[s] Observation end time (MET)	191616398.184000	191617137.28632			
Observation end date	2004-01-27T18:45:34	2004-01-27T18:58:57			
Read mode	TIMED	TIMED			

## 2.3 Aspect



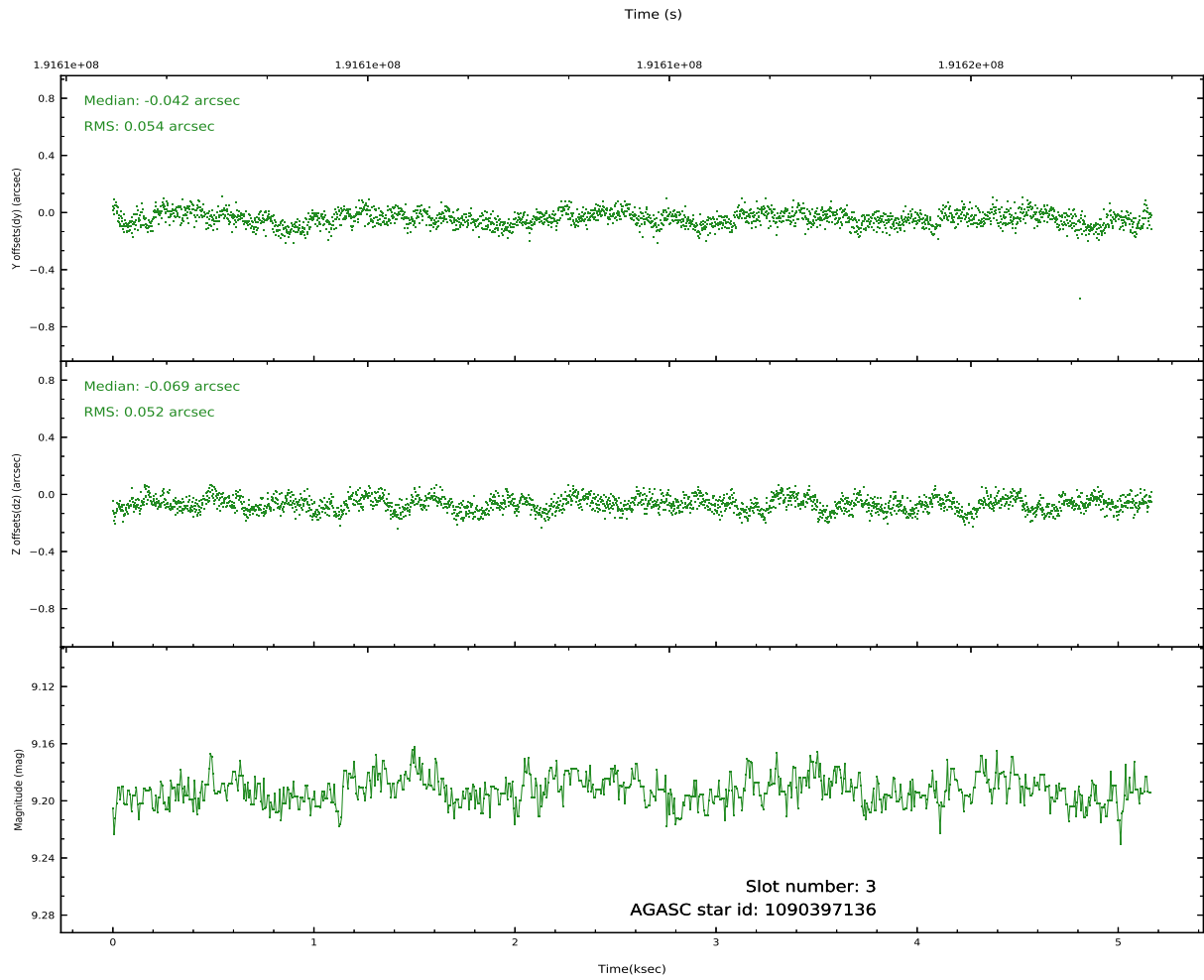
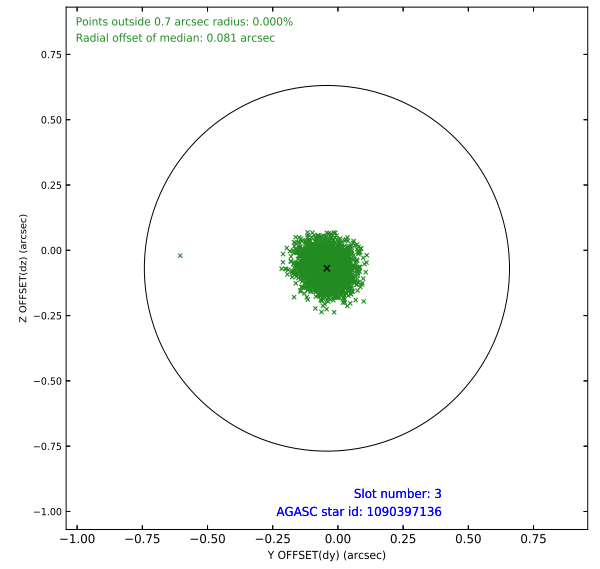
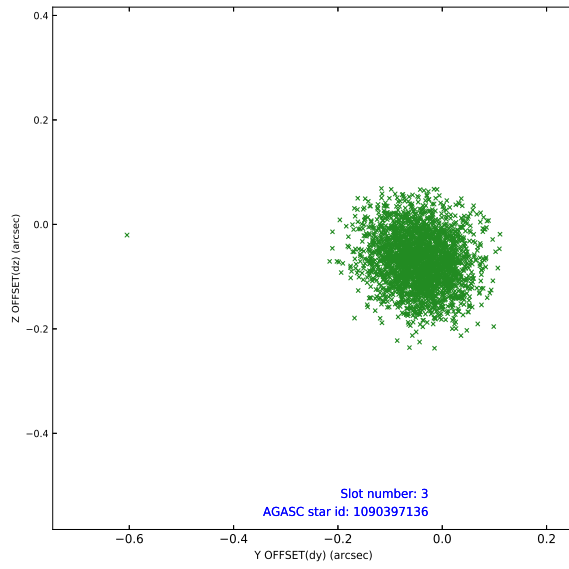


Slot Statistics

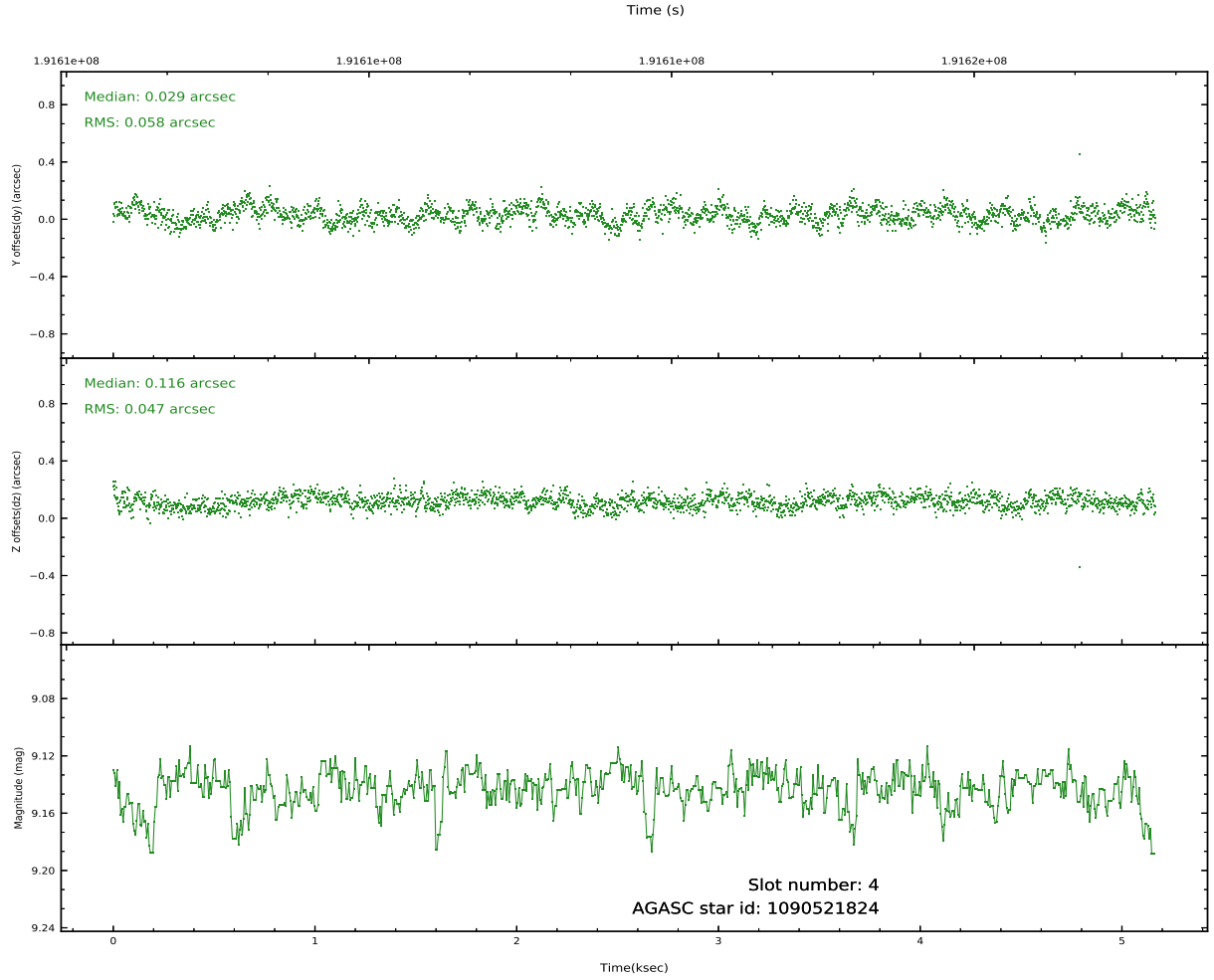
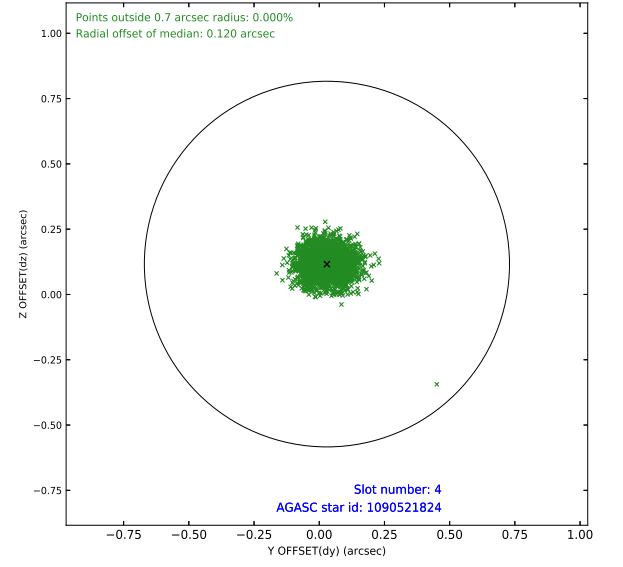
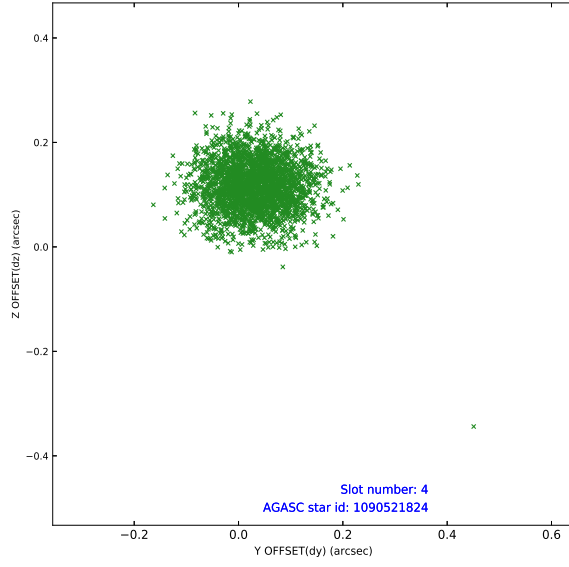
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.24	1260	1.000	0.026	-0.019	0.007	0.012	0.000000	0.000000	933.28	-834
1	FID		ACIS-I-5	7.23	1260	1.000	-0.183	0.035	0.007	0.012	0.000000	0.000000	-1814.37	1062
2	FID		ACIS-I-6	7.25	1260	1.000	0.065	0.055	0.008	0.013	0.000000	0.000000	397.61	1708
3	GUIDE	used	1090397136	9.19	2521	1.000	-0.042	-0.069	0.079	0.126	243.971780	-50.589354	1393.65	824
4	GUIDE	used	1090521824	9.14	2518	1.000	0.029	0.116	0.079	0.126	244.711253	-50.470098	1607.16	-907
5	GUIDE	used	1090922592	8.67	2521	1.000	0.026	-0.125	0.071	0.115	243.541382	-50.784876	809.41	1882
6	GUIDE	used	1090924096	8.06	2521	1.000	0.025	-0.081	0.051	0.083	243.849549	-51.016855	-100.48	1286
7	GUIDE	used	1091059112	9.07	2515	1.000	-0.037	0.163	0.069	0.116	245.180420	-50.736664	512.02	-1840

## 2.4 Star Slots

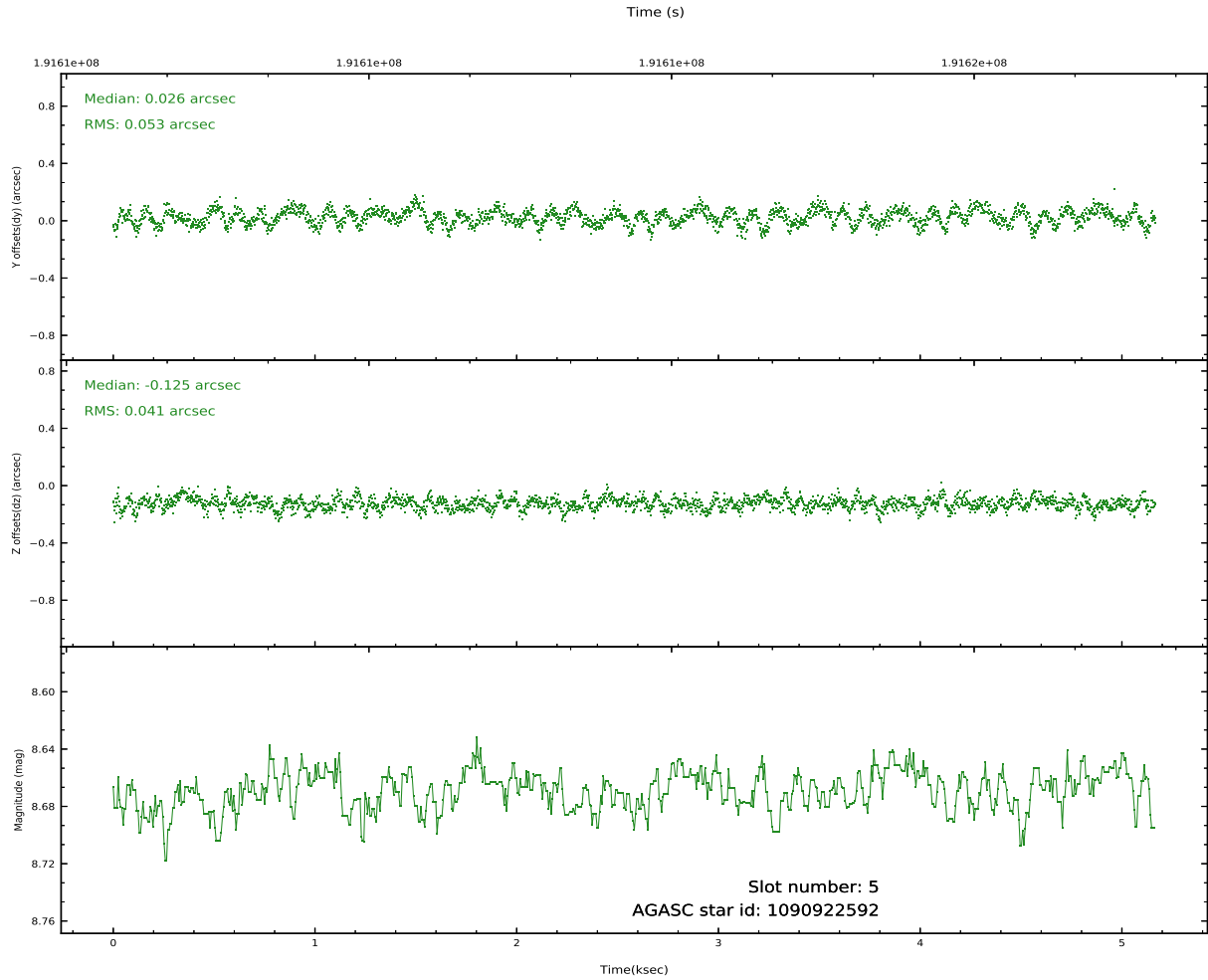
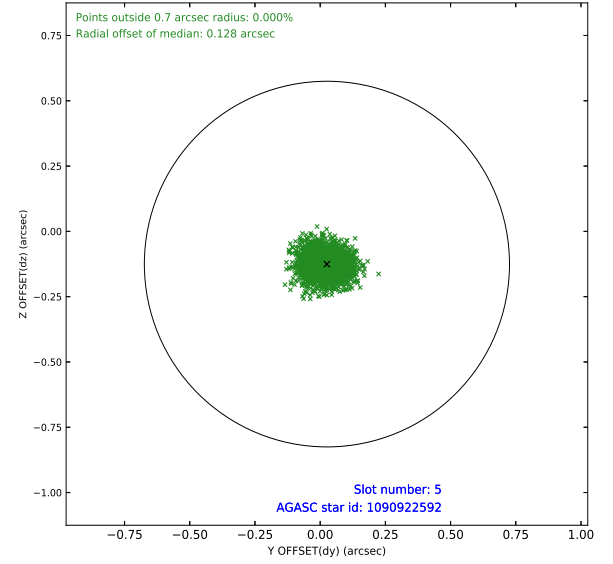
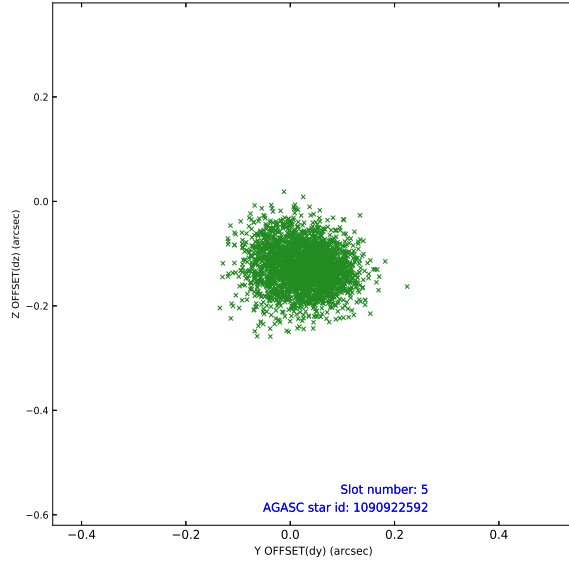
### 2.4.1 Slot 3



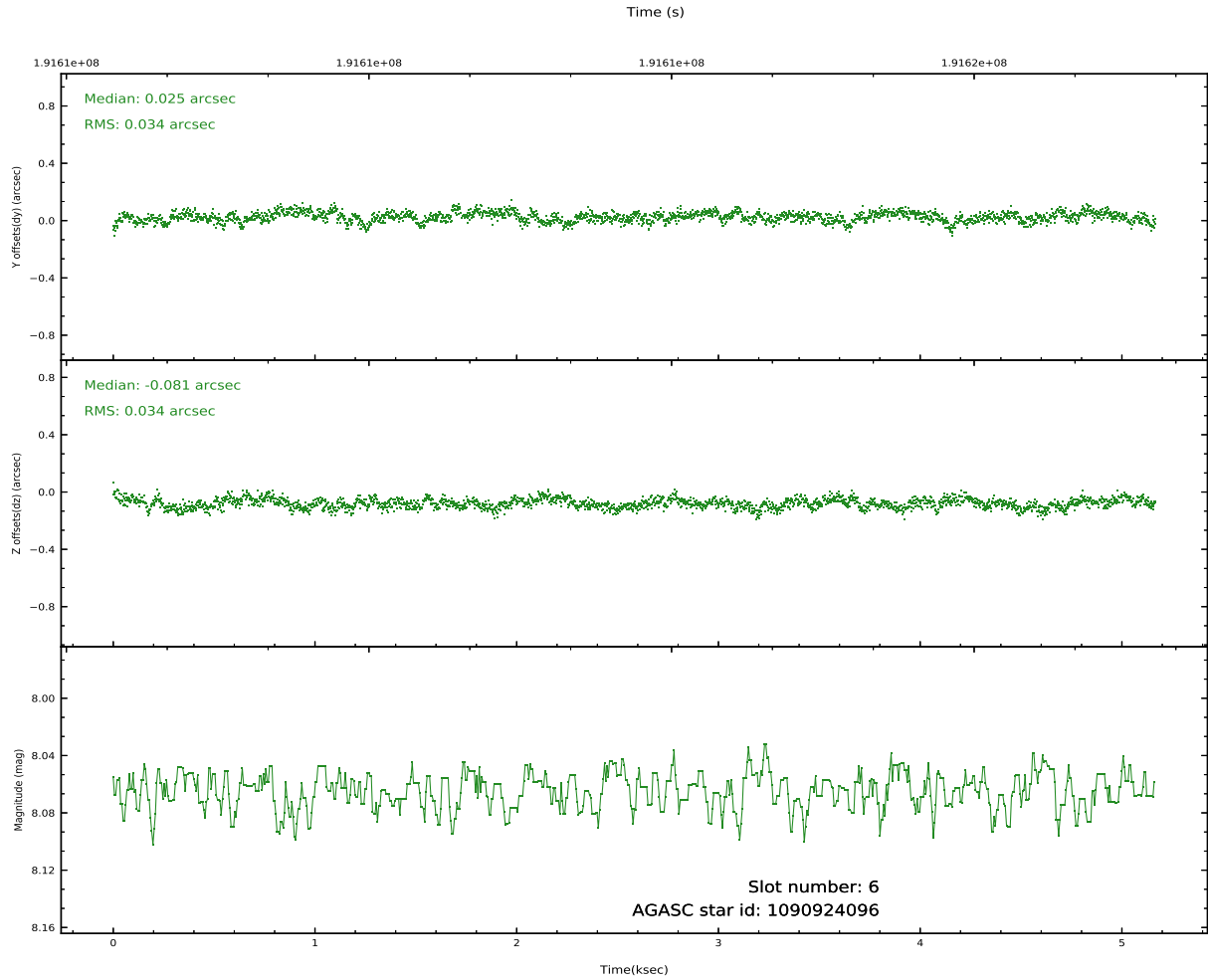
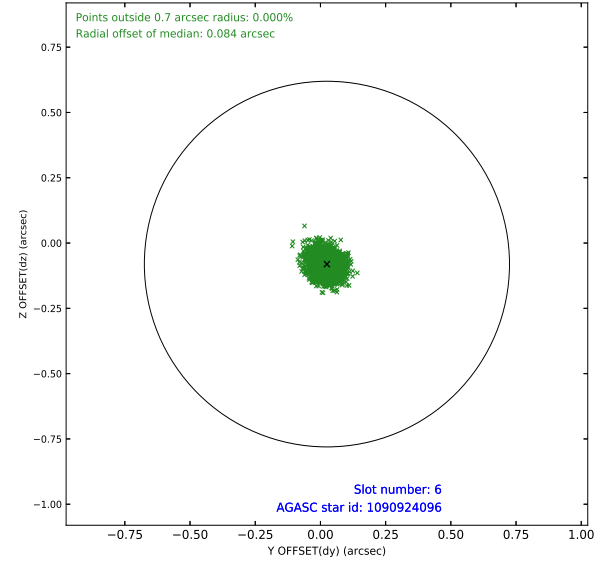
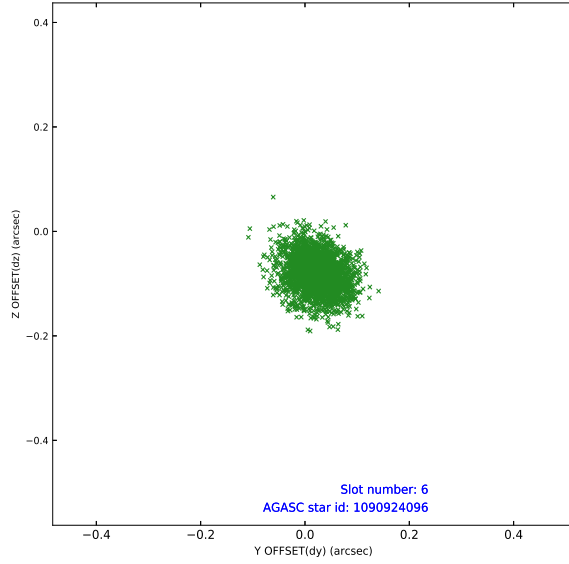
## 2.4.2 Slot 4



### 2.4.3 Slot 5

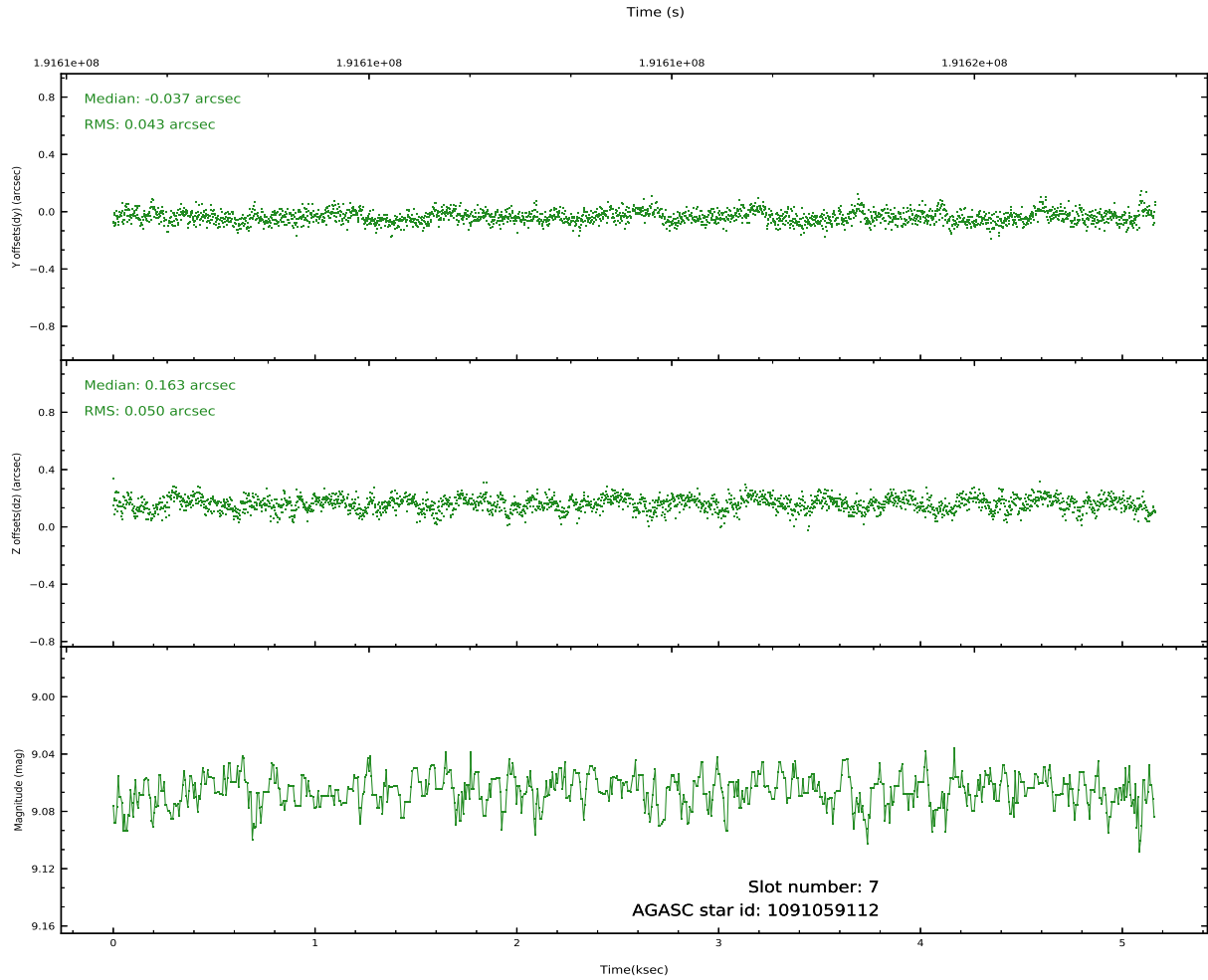
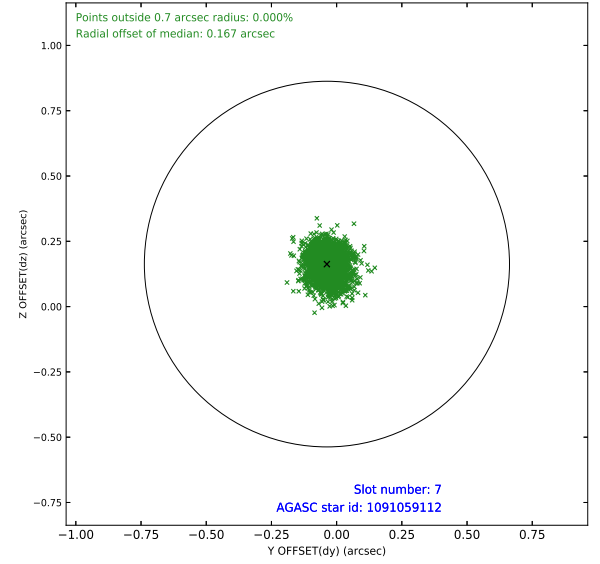
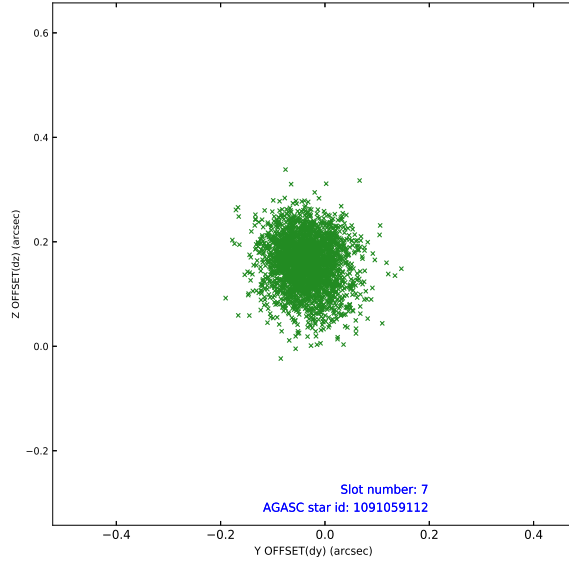


## 2.4.4 Slot 6



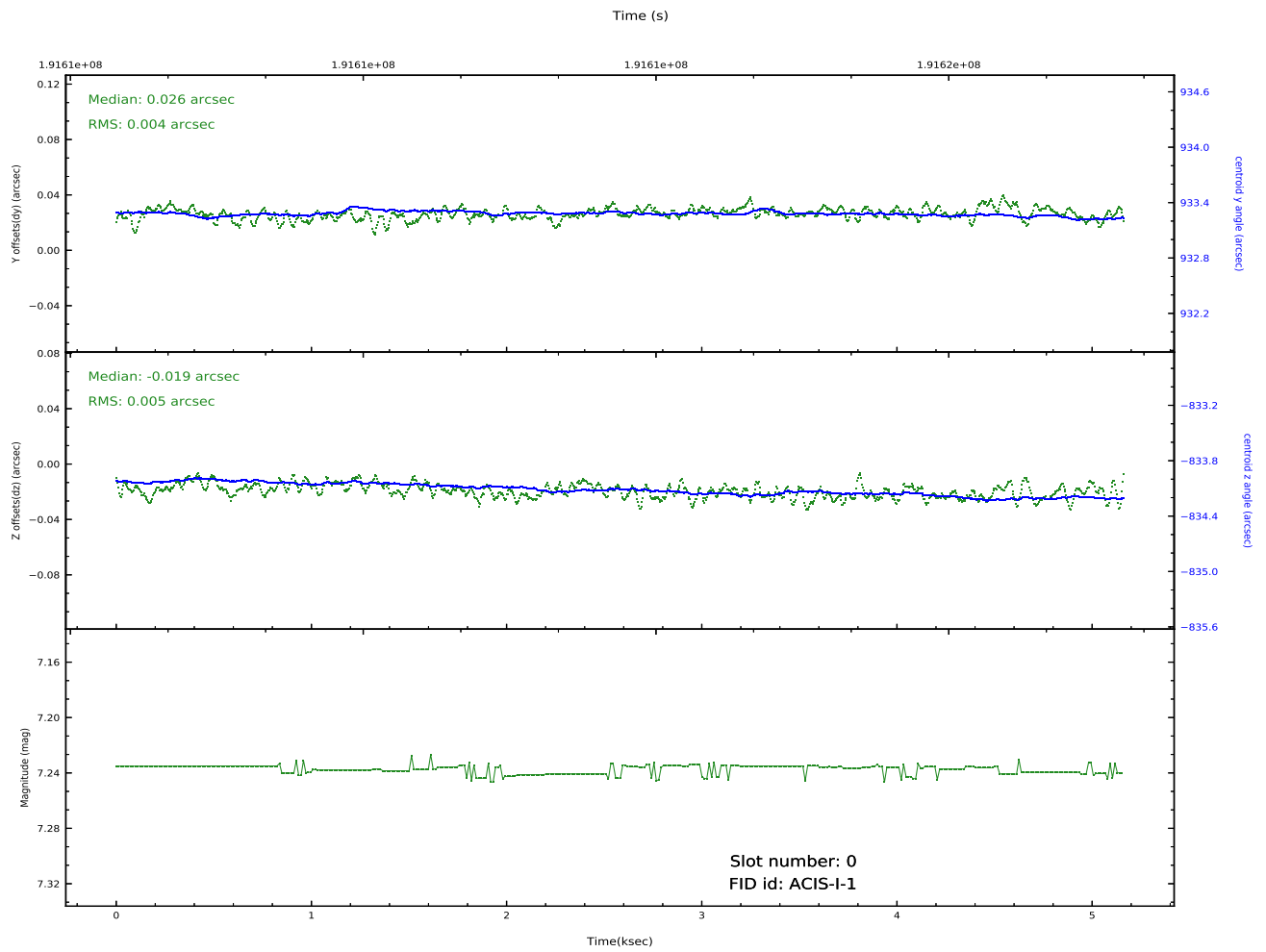
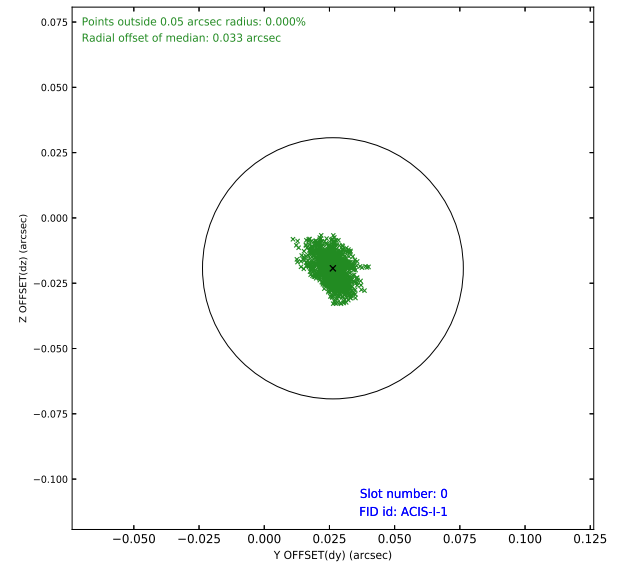
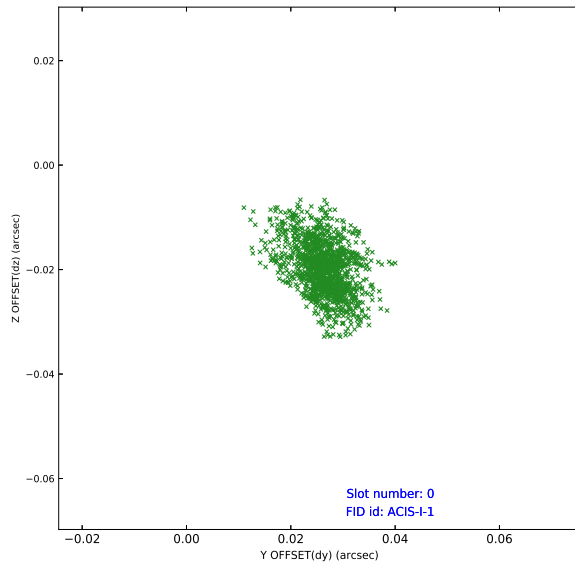


## 2.4.5 Slot 7

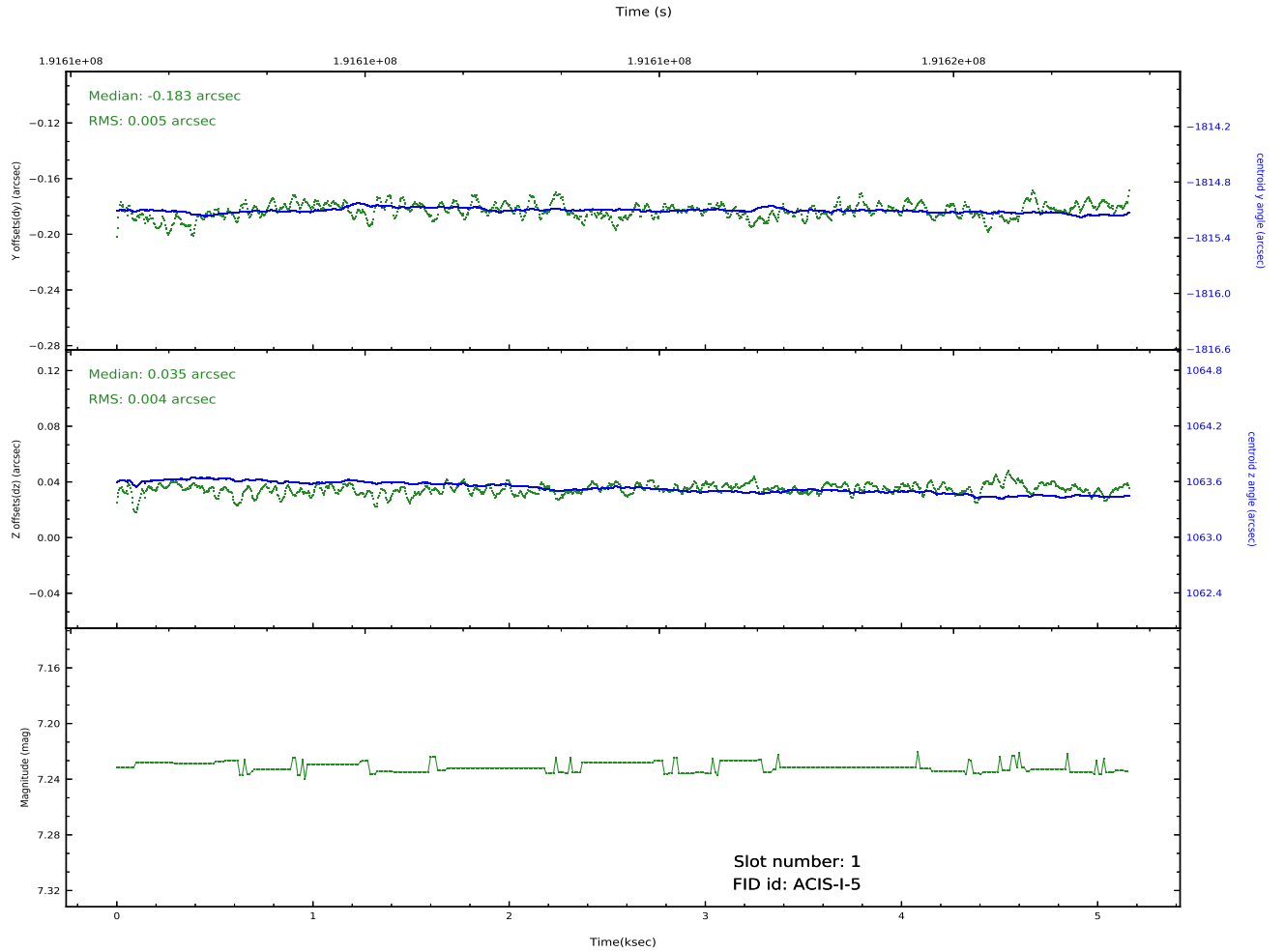
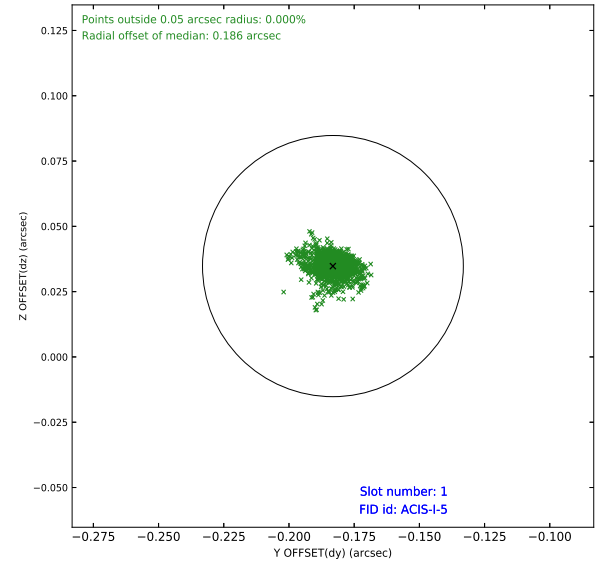
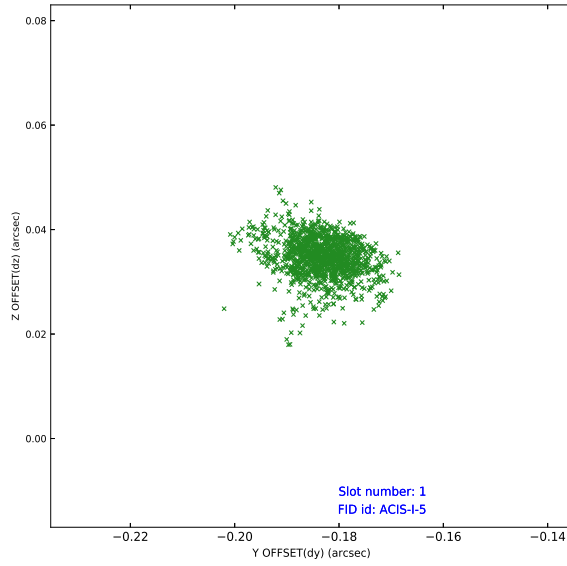


## 2.5 FID Slots

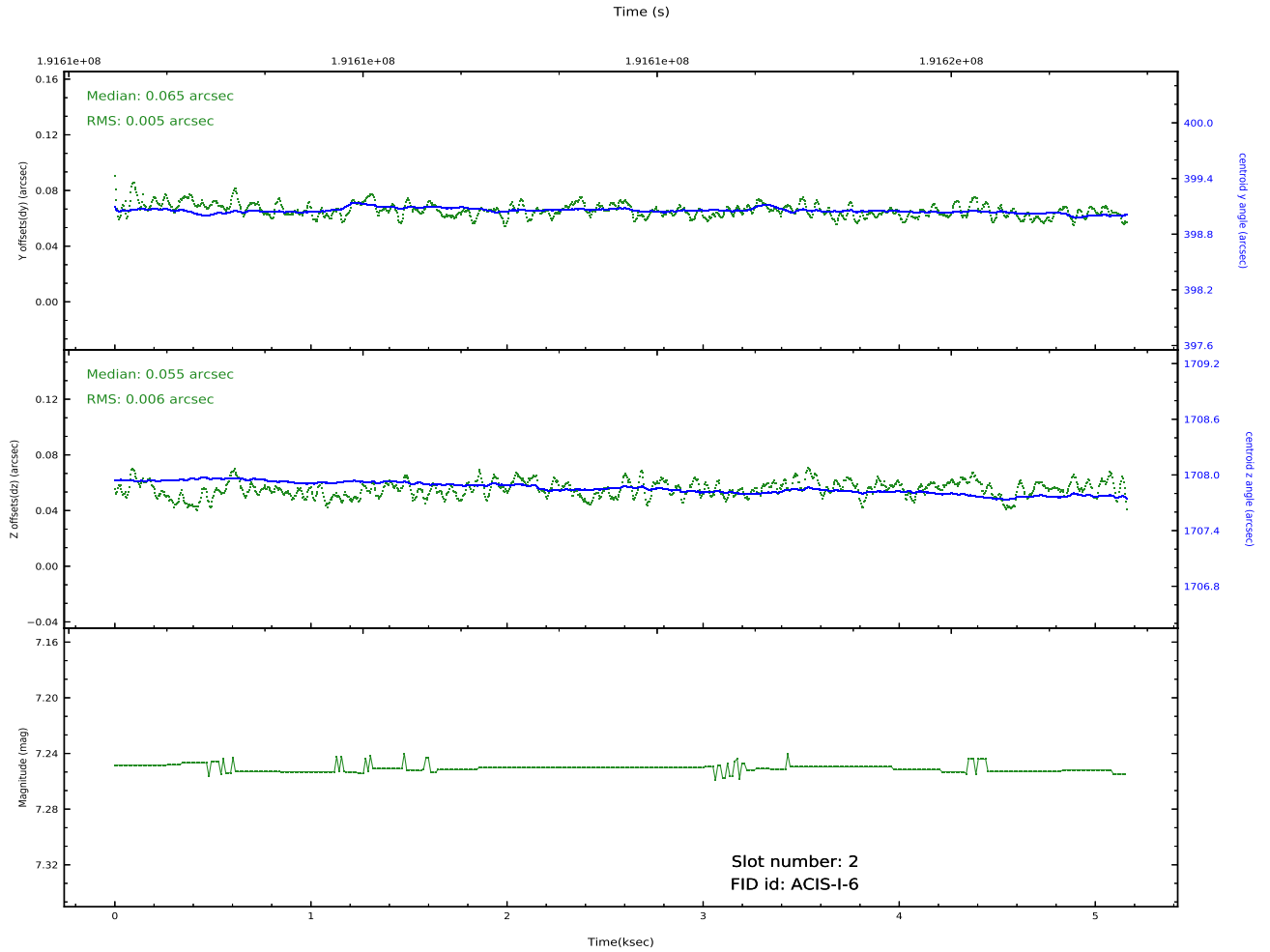
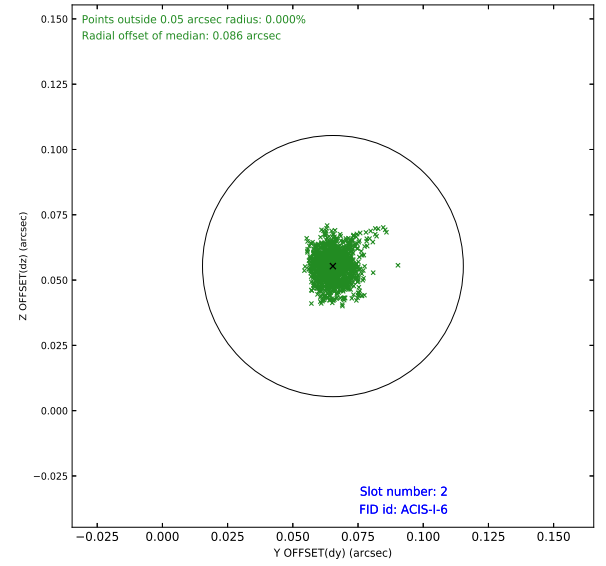
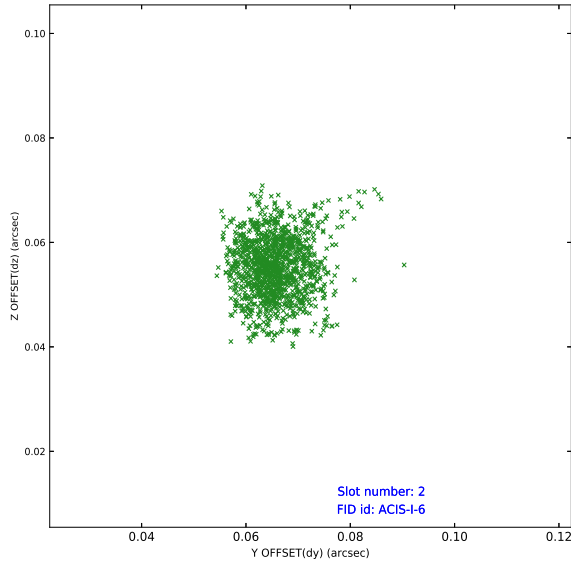
### 2.5.1 Slot 0



## 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)	2020.09.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.164

### A.2 Comments