

# V&V Reference Report

## L2 ASCDS Version : 10.9.1

Observation 6162 - L2 Version 4  
Chandra X-Ray Center

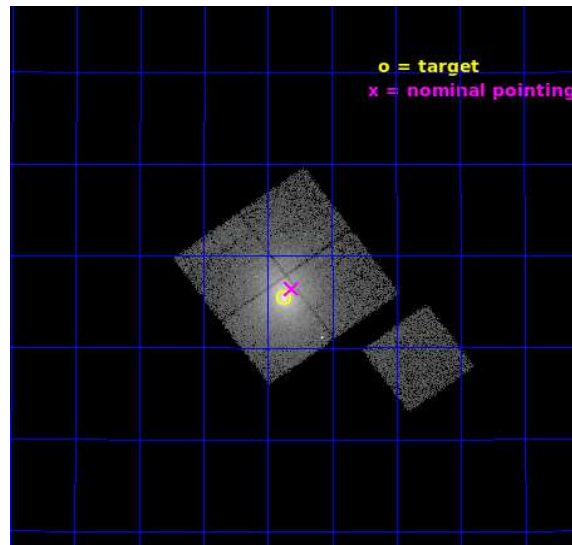
L2 Processing Date : Oct 7 2020

## Contents

<b>1</b>	<b>Front</b>	<b>2</b>
<b>2</b>	<b>OBI</b>	<b>3</b>
2.1	OBI . . . . .	3
2.1.1	Images . . . . .	3
2.1.2	Bias . . . . .	3
2.1.3	Parameters . . . . .	4
2.1.4	Events . . . . .	4
2.2	Compared Parameters . . . . .	5
2.3	Aspect . . . . .	6
2.4	Star Slots . . . . .	9
2.4.1	Slot 3 . . . . .	9
2.4.2	Slot 4 . . . . .	10
2.4.3	Slot 5 . . . . .	11
2.4.4	Slot 6 . . . . .	12
2.4.5	Slot 7 . . . . .	13
2.5	FID Slots . . . . .	14
2.5.1	Slot 0 . . . . .	14
2.5.2	Slot 1 . . . . .	15
2.5.3	Slot 2 . . . . .	16
<b>A</b>	<b>Summary</b>	<b>17</b>
A.1	Status . . . . .	17
A.2	Comments . . . . .	17

# 1 Front

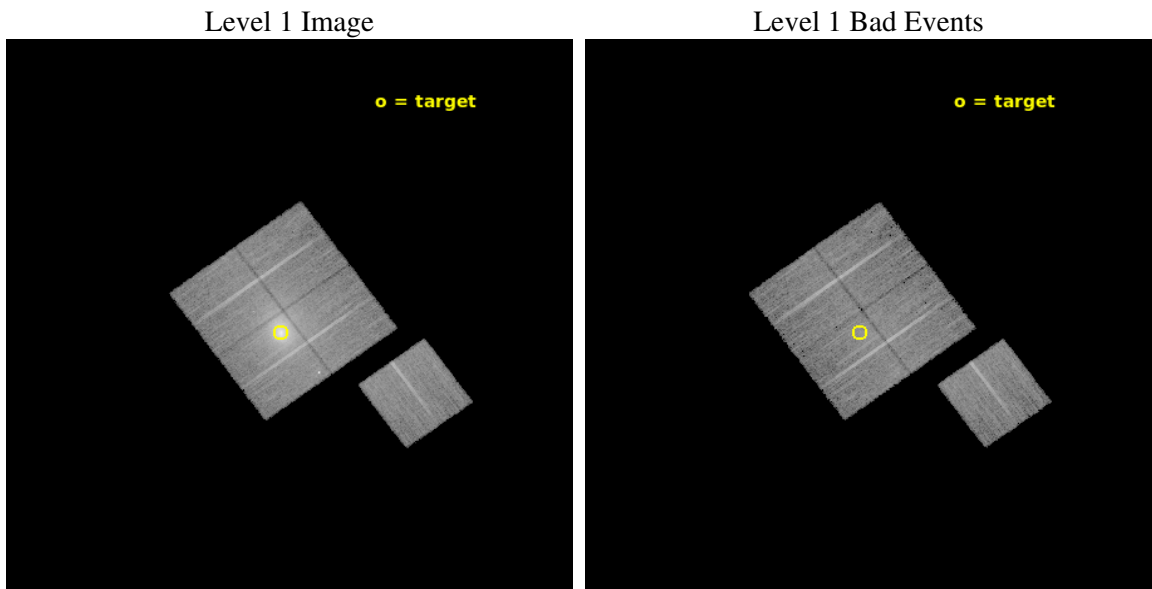
seq_num	890034	Sequence number
obs_id	6162	Observation id
title	Monitoring the Spatial Variation of the ACIS Contaminant with Abell 1795	Proposal title
observer	CXC Calibration	Principal investigator
object	A1795	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	207.219583	Observer's specified target RA [deg]
dec_targ	26.590833	Observer's specified target Dec [deg]
ra_nom	207.20324668507	Nominal RA [deg]
dec_nom	26.607204230991	Nominal Dec [deg]
roll_nom	143.85916801081	Nominal Roll [deg]
revision	4	Processing version of data
ontime	13776.034838378	Sum of GTIs [s]
livetime	13596.040801446	Livetime [s]
ontime0	13772.770708174	Sum of GTIs [s]
ontime1	13769.670748055	Sum of GTIs [s]
ontime2	13775.993798375	Sum of GTIs [s]
ontime3	13776.034838378	Sum of GTIs [s]
ontime6	13775.870658427	Sum of GTIs [s]
l2events	154185	Number of level 2 events



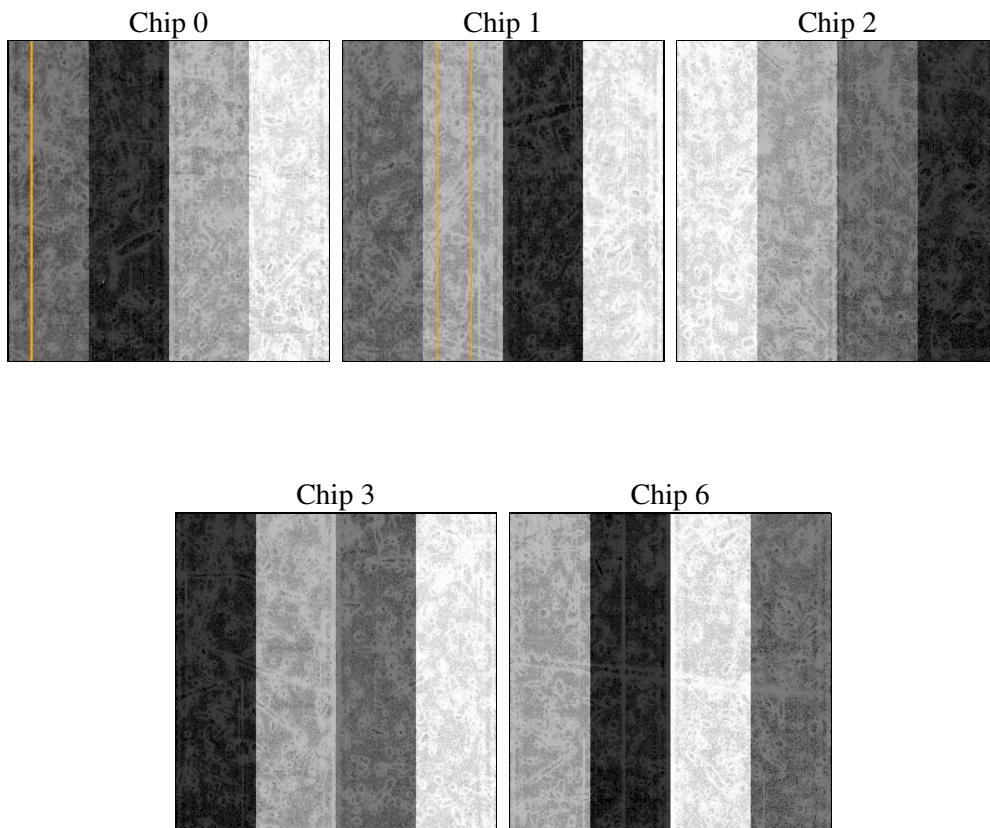
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	14000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	13776.034838378	Sum of GTIs [s]
caldsver	4.9.2	&#160	ontime0	13772.770708174	Sum of GTIs [s]
date	2020-10-07T12:19:57	Date and time of file creation	ontime1	13769.670748055	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	13775.993798375	Sum of GTIs [s]
			ontime3	13776.034838378	Sum of GTIs [s]
			ontime6	13775.870658427	Sum of GTIs [s]
			l1events	544656	Number of level 1 events

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	85662	97251	101058	173304	87381
rejected events	69717	73236	79683	78080	78532
rejected %	81%	75%	78%	45%	89%

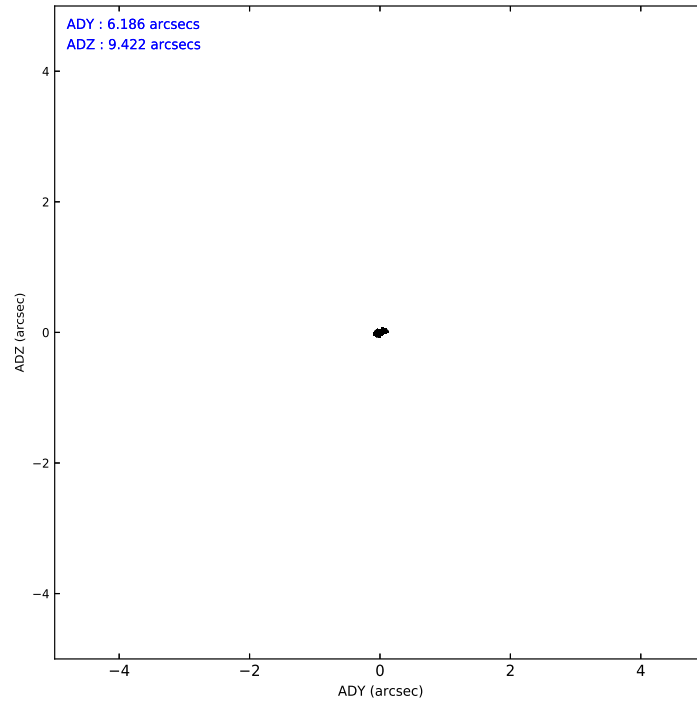
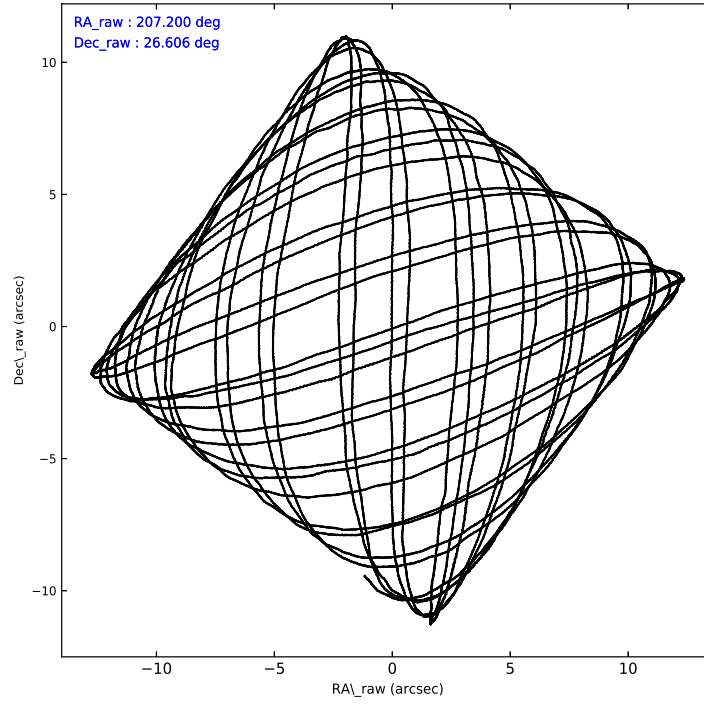
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	9171	15109	13793	74879	3239
	10%	15%	13%	43%	3%
grade 1 events	64	86	97	446	36
	0%	0%	0%	0%	0%
grade 2 events	2612	3523	3169	10010	1811
	3%	3%	3%	5%	2%
grade 3 events	1216	1547	1313	3432	976
	1%	1%	1%	1%	1%
grade 4 events	1105	1544	1285	3371	955
	1%	1%	1%	1%	1%
grade 5 events	3005	3305	2828	3636	3353
	3%	3%	2%	2%	3%
grade 6 events	1845	2299	1821	3553	1873
	2%	2%	1%	2%	2%
grade 7 events	66644	69838	76752	73977	75138
	77%	71%	75%	42%	85%

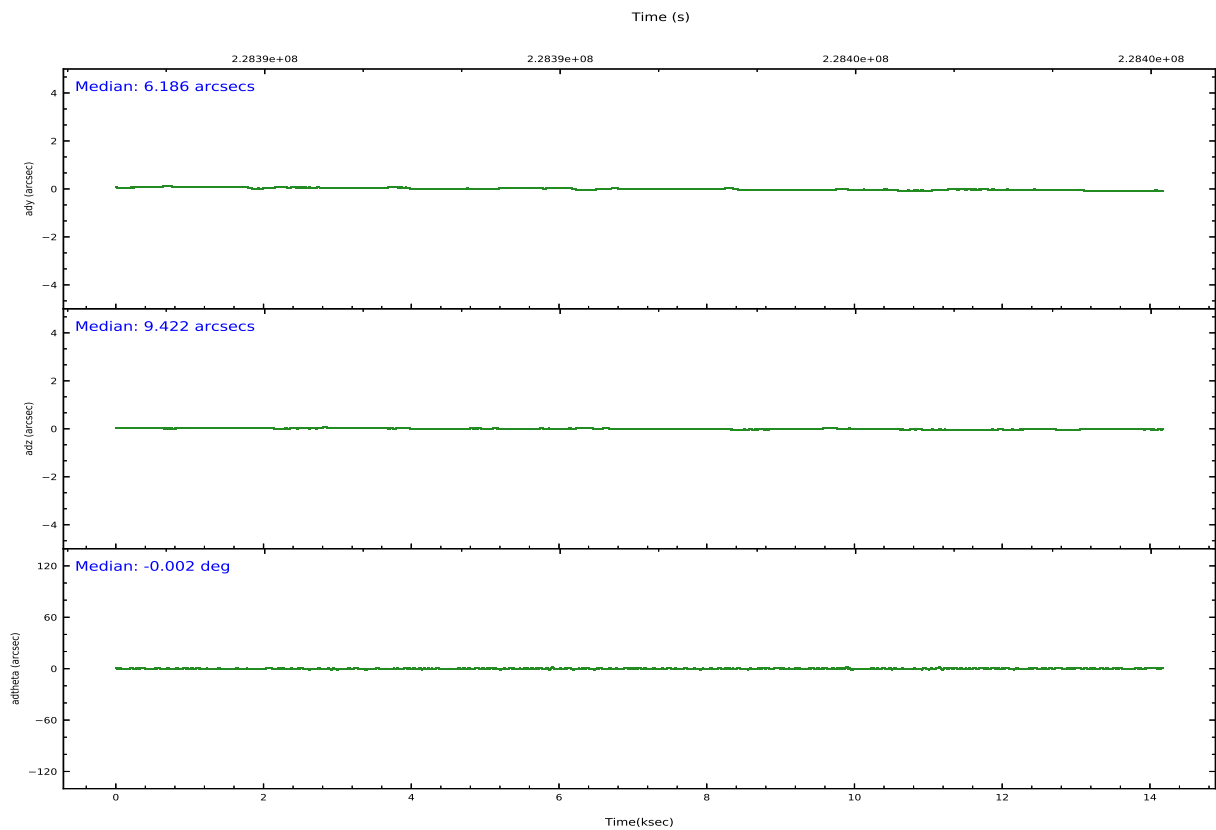
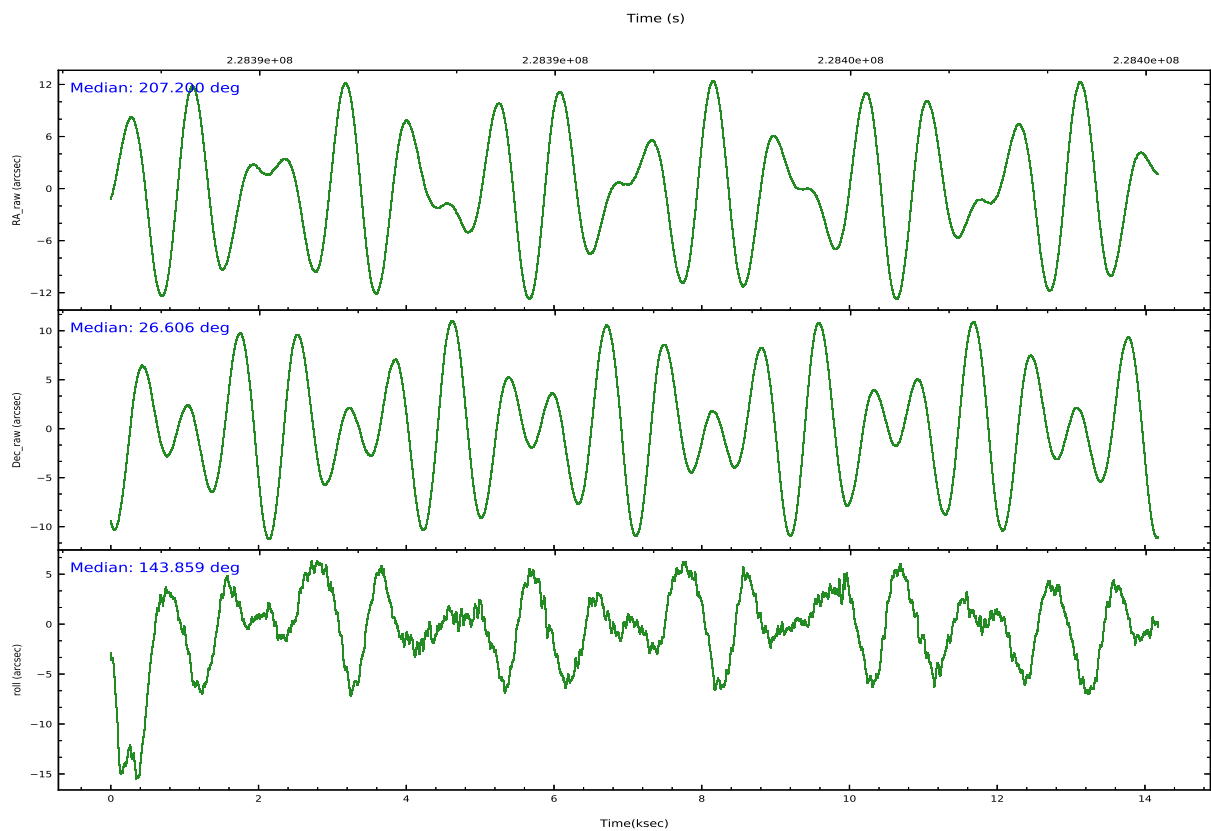


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-01236	ACIS-01236	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	207.230272	207.20324668507	Subarray requested	NONE	NONE
[deg] Pointing Dec	26.603260	26.607204230991	Alternating exposures requested	N	N
[deg] Pointing Roll	143.640814	143.85916801081	[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	-230.252463	-230.2509380556586			
[mm] SIM translation stage offset	-3.34	-3.341514947271122			
[s] Observation start time (MET)	228386164.184000	228385787.73698			
Observation start date	2005-03-28T08:35:00	2005-03-28T08:29:47			
[s] Observation end time (MET)	228400164.184000	228401047.42517			
Observation end date	2005-03-28T12:28:20	2005-03-28T12:44:07			
Read mode	TIMED	TIMED			

## 2.3 Aspect



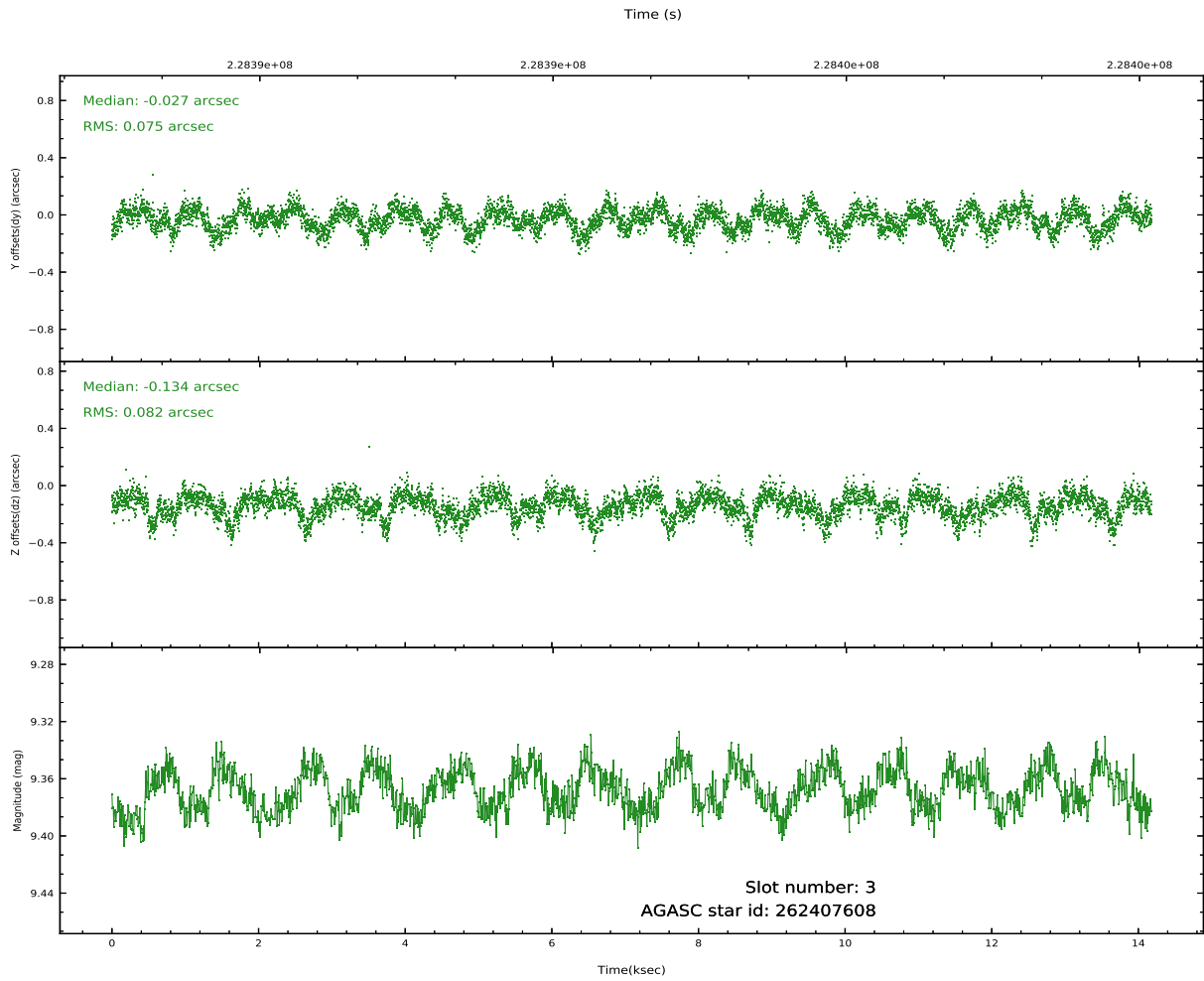
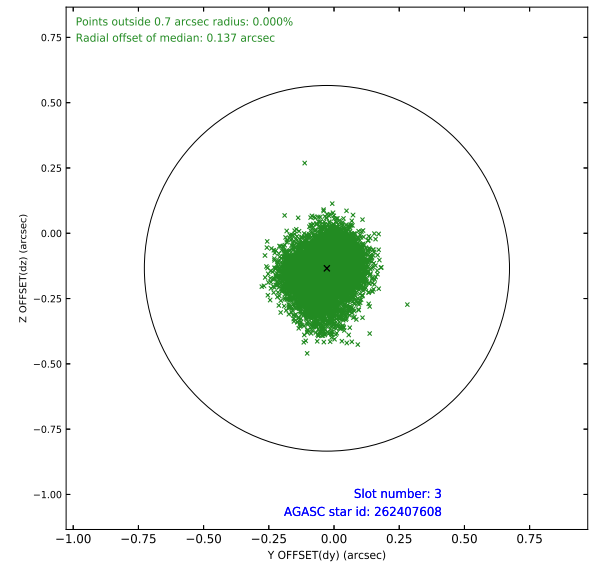
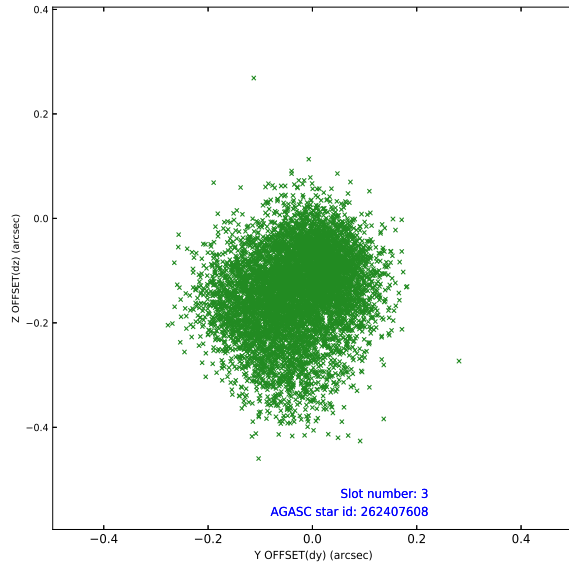


Slot Statistics

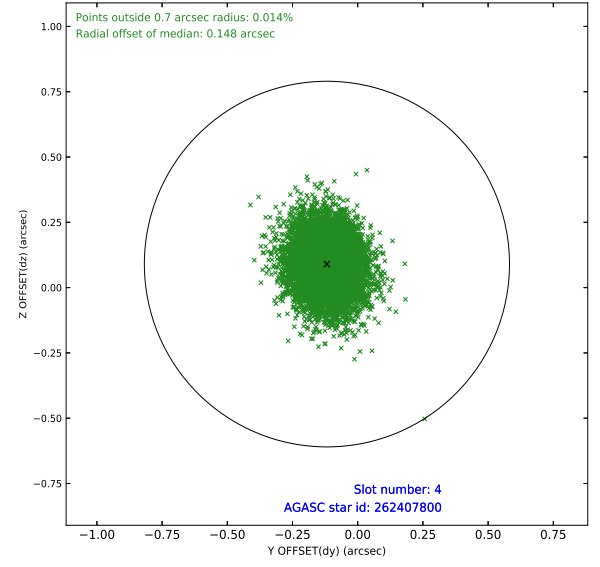
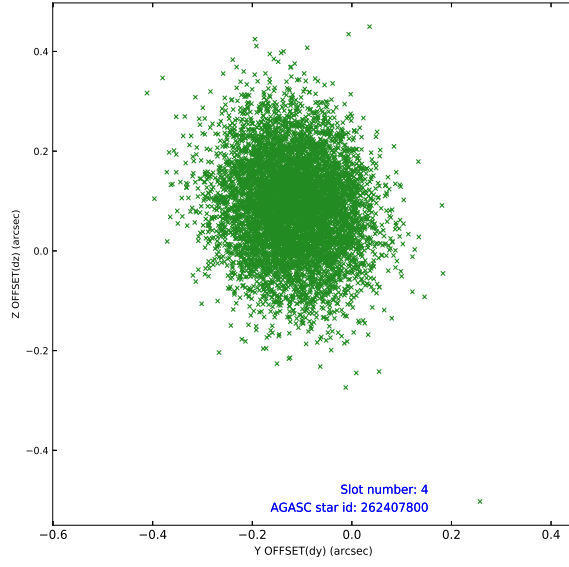
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.24	3459	1.000	0.072	-0.017	0.007	0.012	0.000000	0.000000	933.53	-901
1	FID		ACIS-I-5	7.23	3459	1.000	-0.254	0.068	0.007	0.012	0.000000	0.000000	-1814.73	995
2	FID		ACIS-I-6	7.26	3458	1.000	0.090	0.020	0.007	0.011	0.000000	0.000000	398.72	1640
3	GUIDE	used	262407608	9.37	6916	1.000	-0.027	-0.134	0.119	0.190	207.378401	26.435507	-742.26	202
4	GUIDE	used	262407800	10.11	6907	1.000	-0.118	0.090	0.129	0.209	207.321181	27.251762	1150.81	-2051
5	GUIDE	used	262408096	9.34	6917	1.000	0.059	-0.013	0.107	0.180	207.011678	26.515421	380.58	671
6	GUIDE	used	262408936	9.68	6910	1.000	0.079	0.079	0.128	0.208	207.154731	26.726554	459.11	-213
7	GUIDE	used	262411960	9.69	6912	1.000	0.007	-0.022	0.132	0.203	207.327895	25.881727	-1794.41	1904

## 2.4 Star Slots

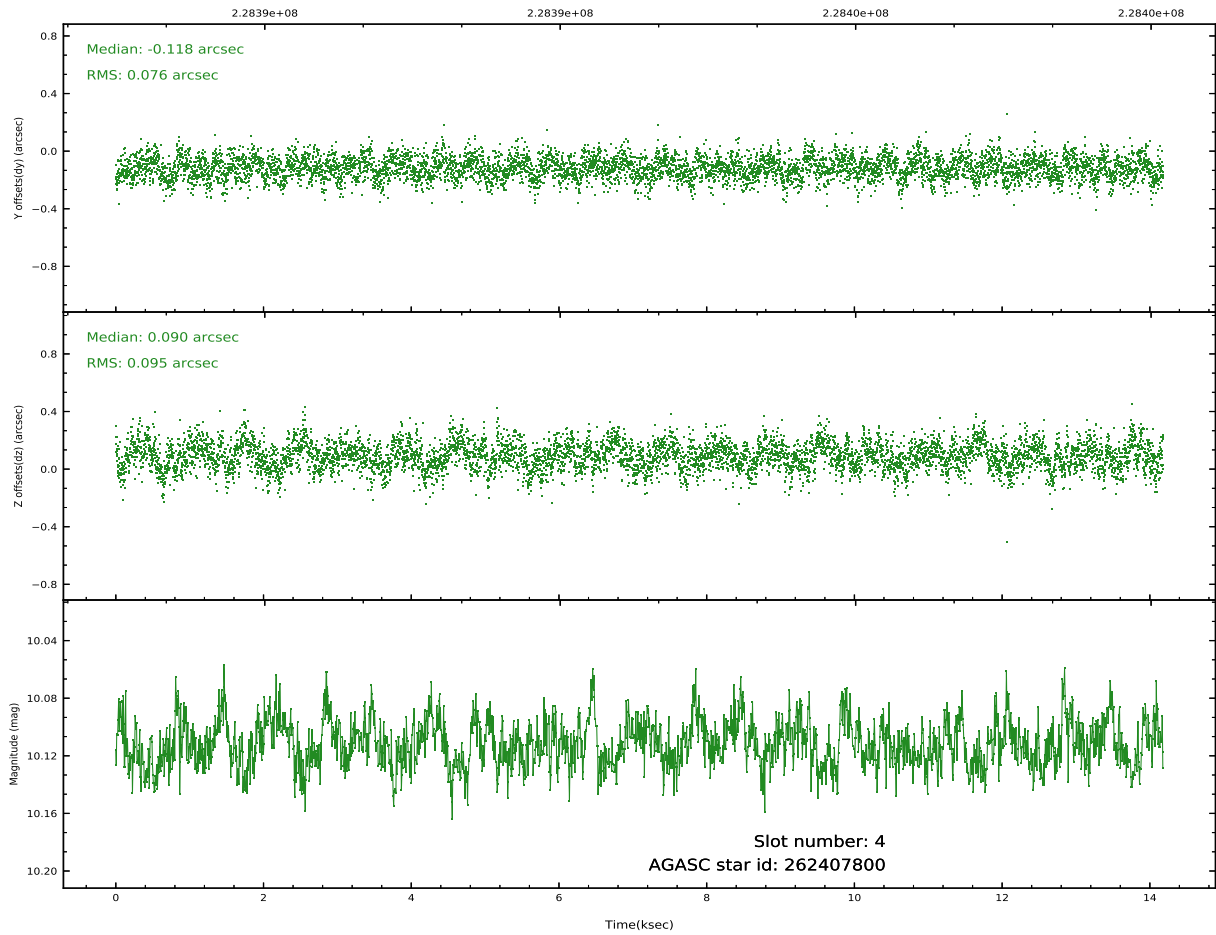
### 2.4.1 Slot 3



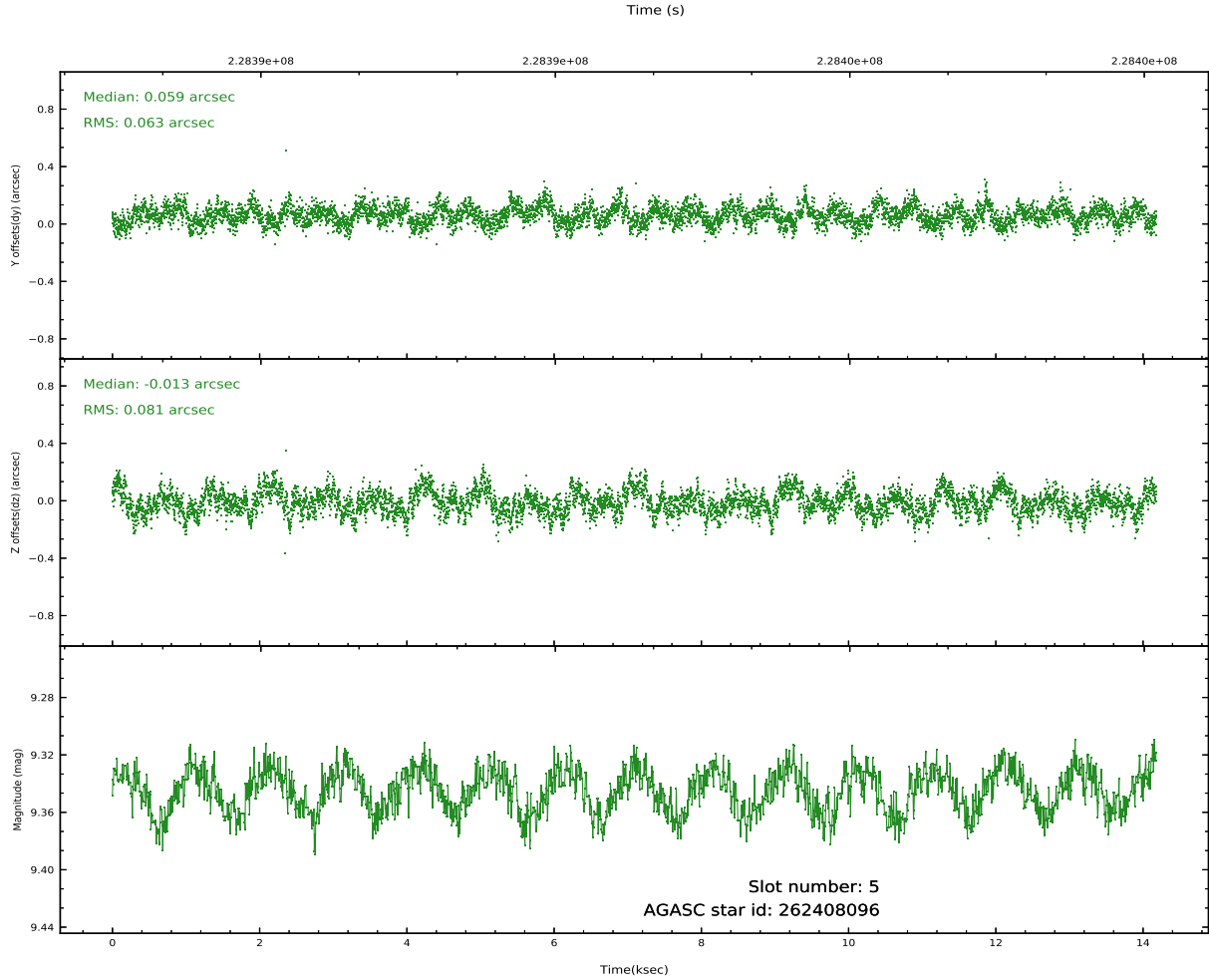
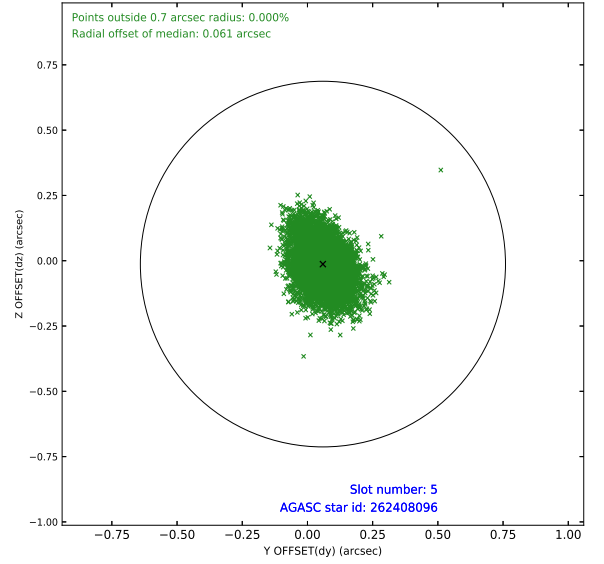
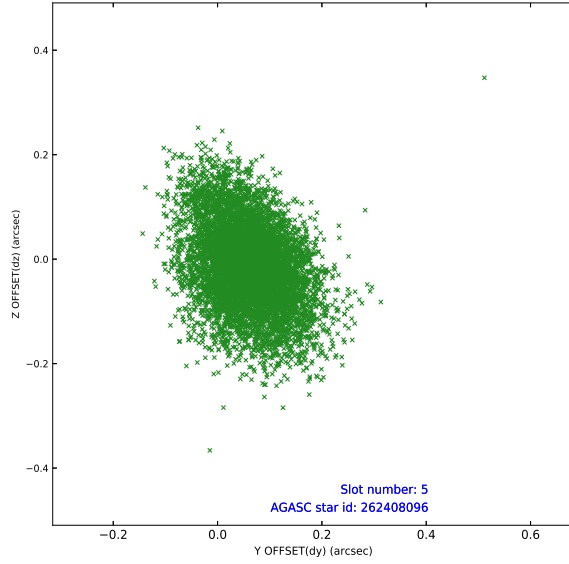
## 2.4.2 Slot 4



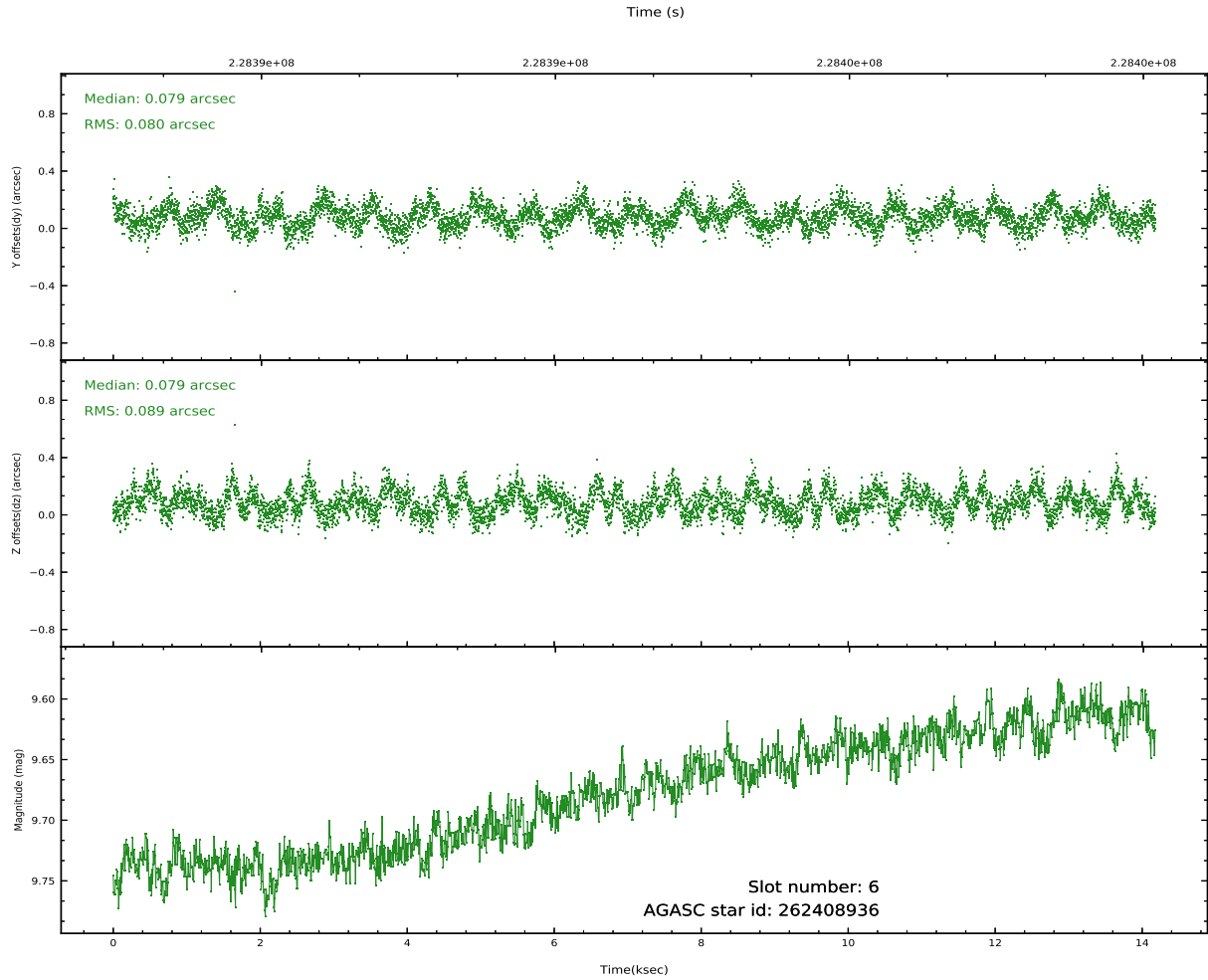
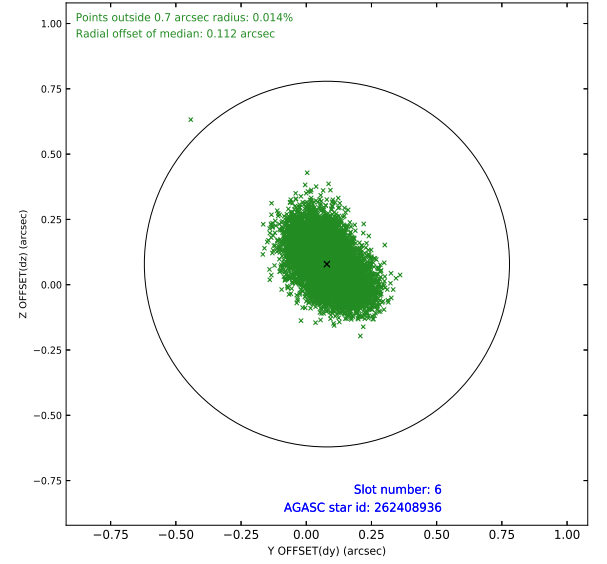
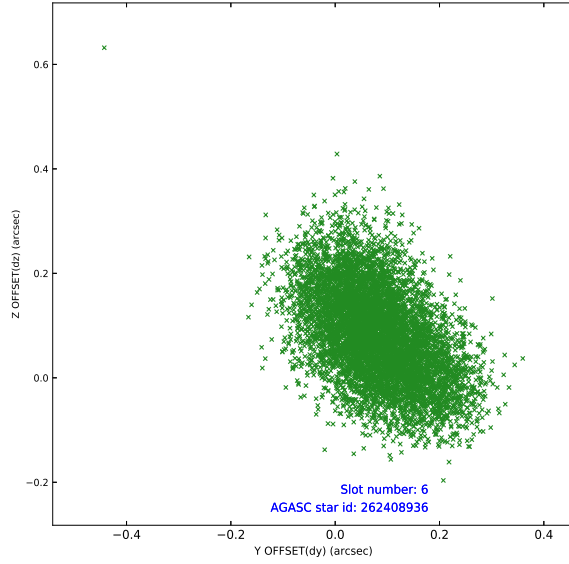
Time (s)



### 2.4.3 Slot 5

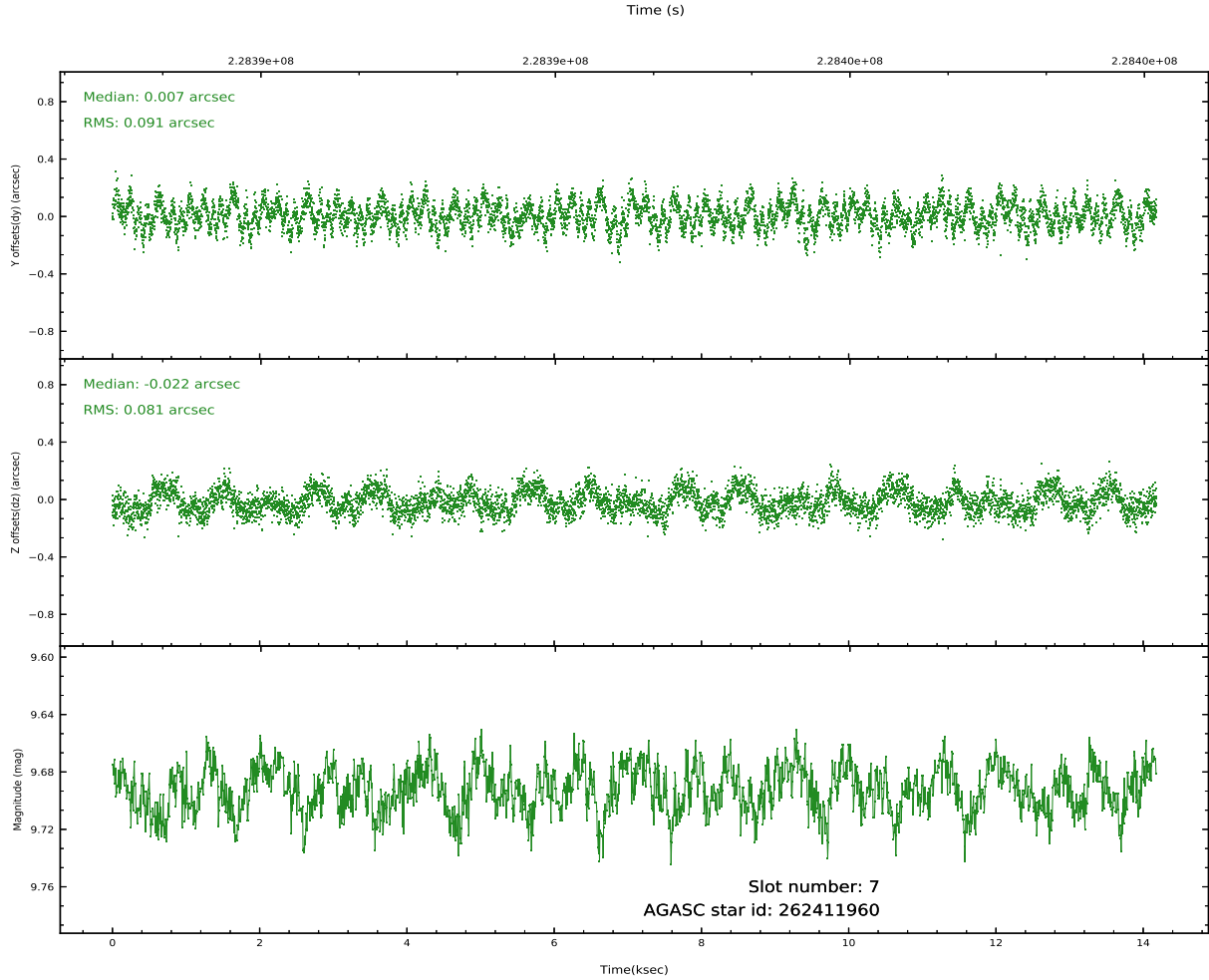
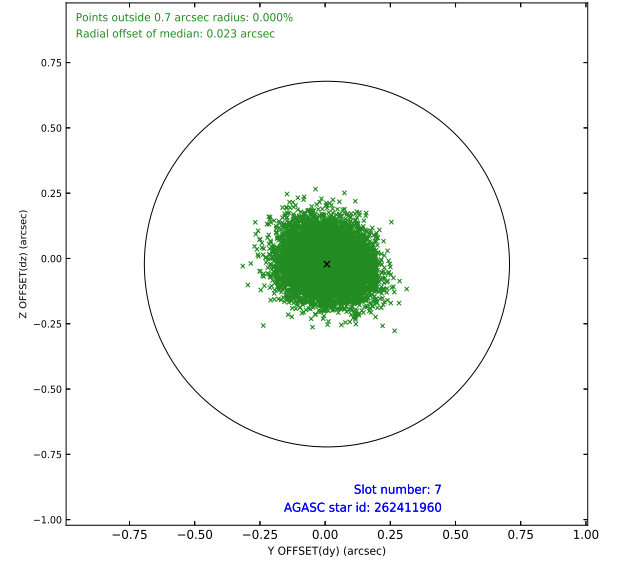
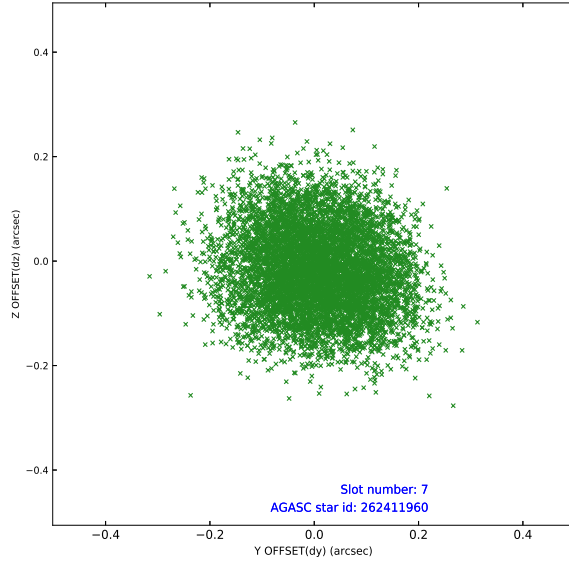


## 2.4.4 Slot 6



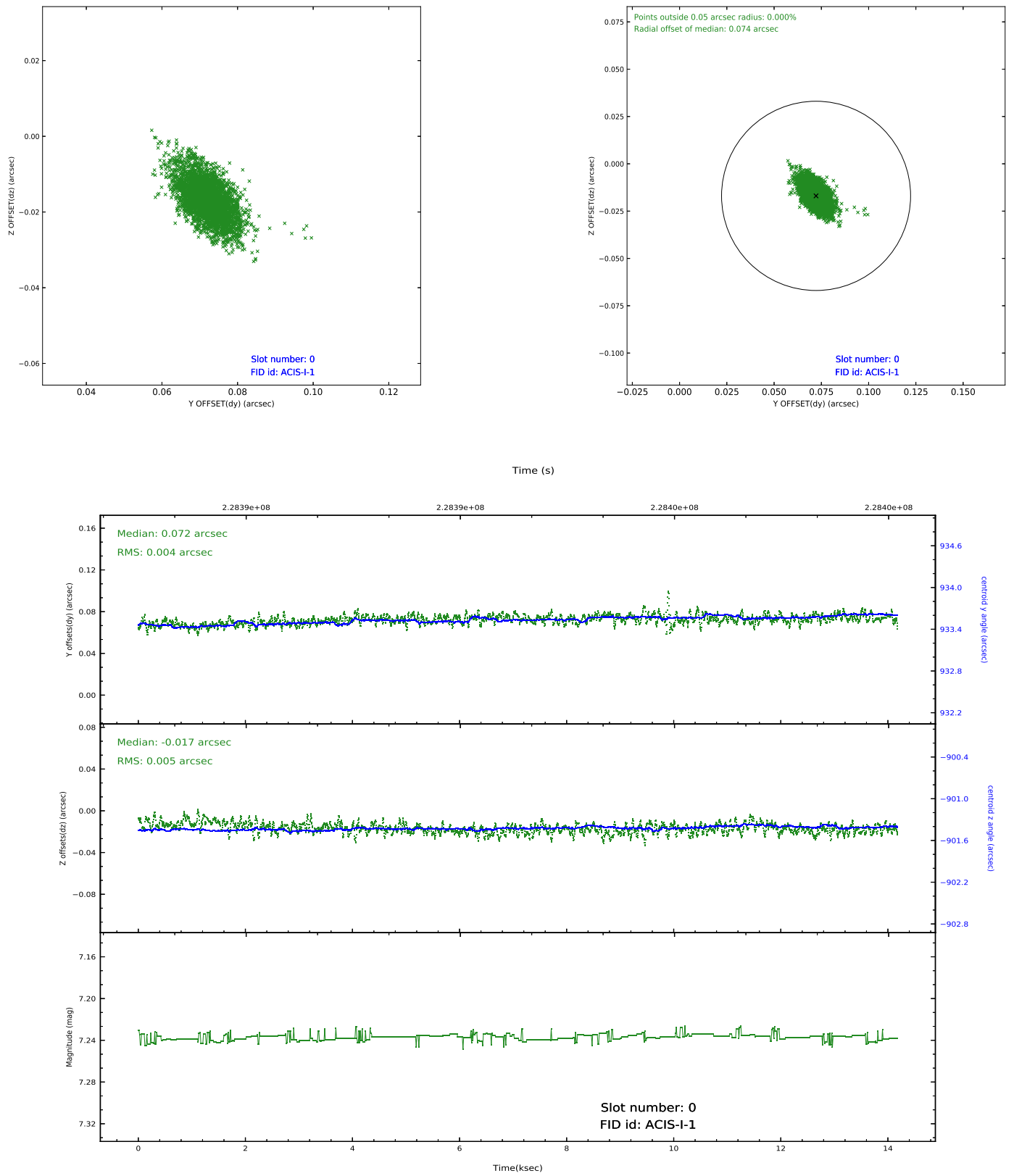


## 2.4.5 Slot 7

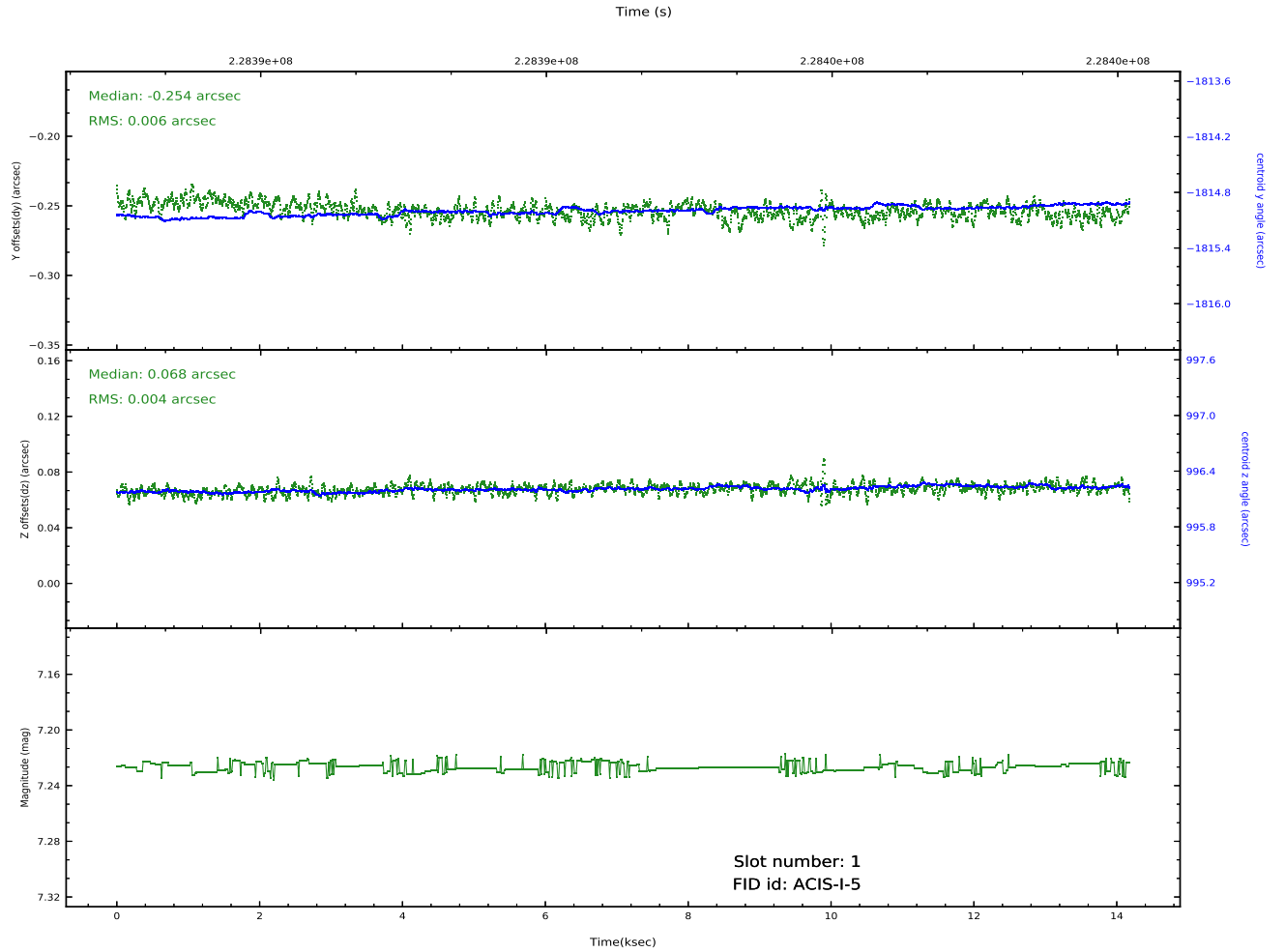
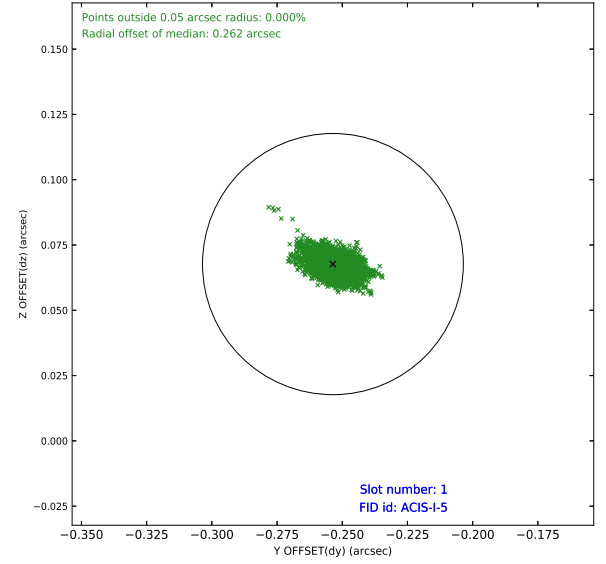
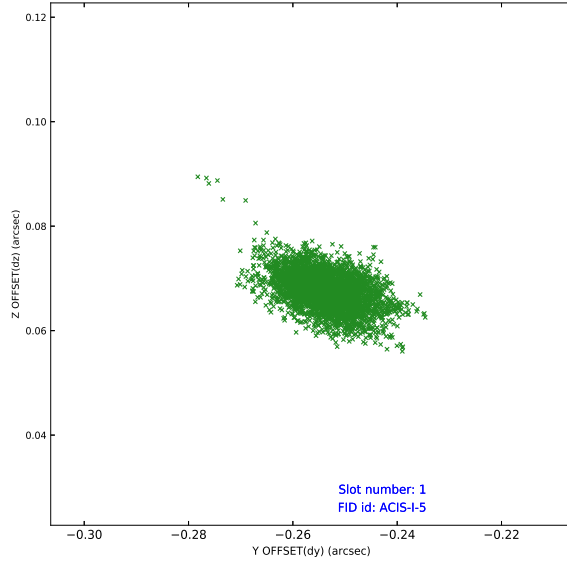


## 2.5 FID Slots

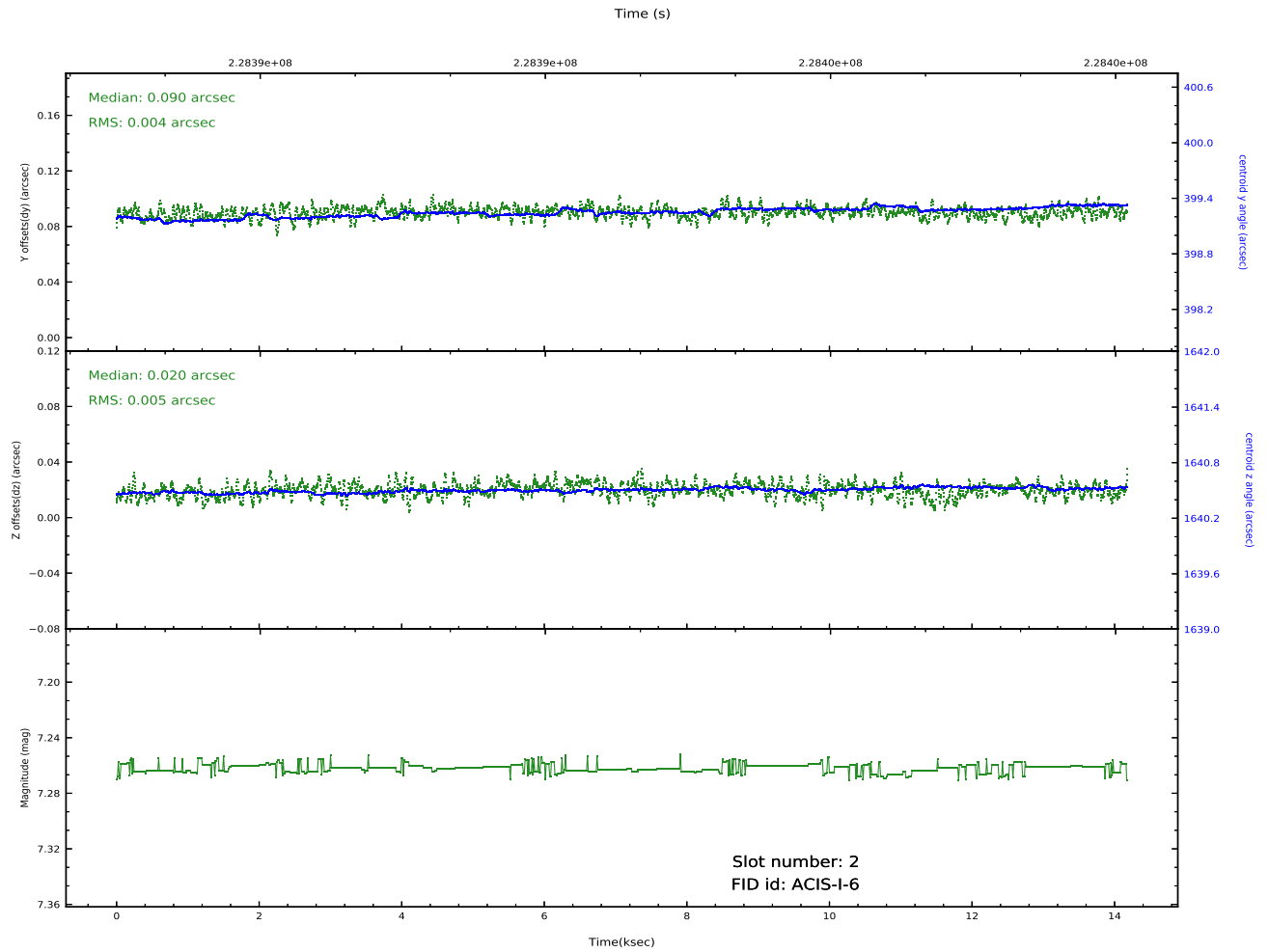
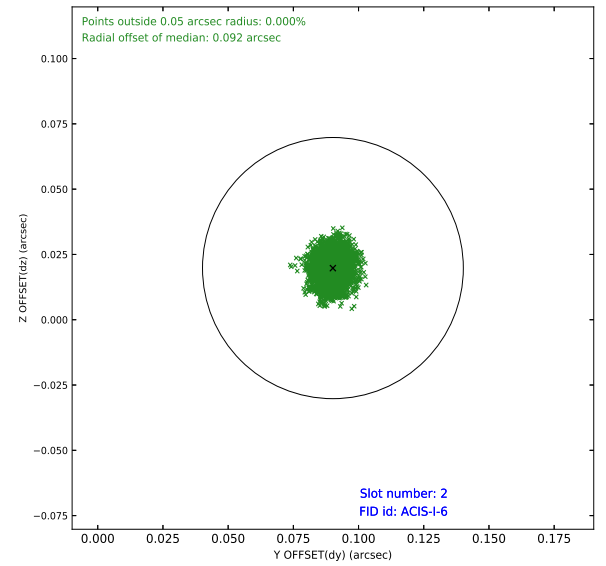
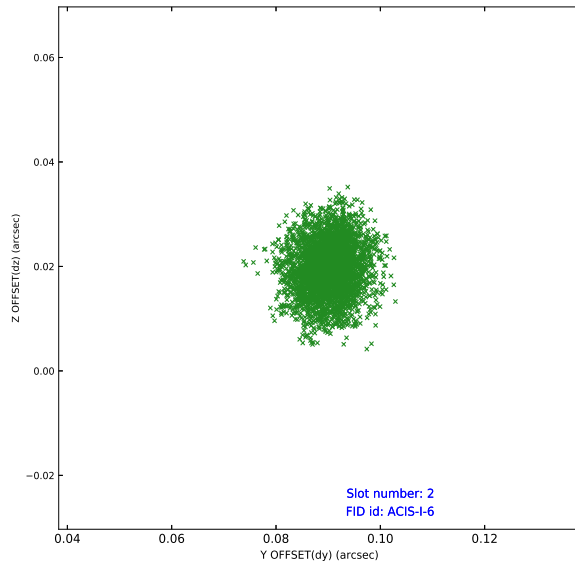
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



## A Summary

### A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2020.10.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	13.77639

### A.2 Comments