

# V&V Reference Report

## L2 ASCDS Version : 10.9.2

Observation 20148 - L2 Version 2  
Chandra X-Ray Center

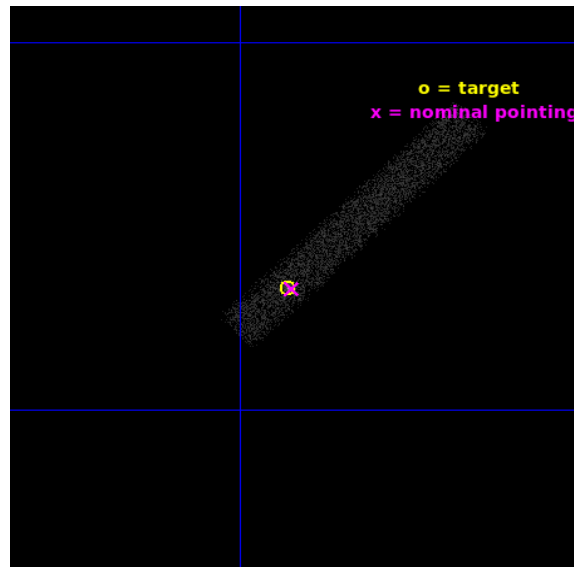
L2 Processing Date : Oct 26 2020

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# 1 Front

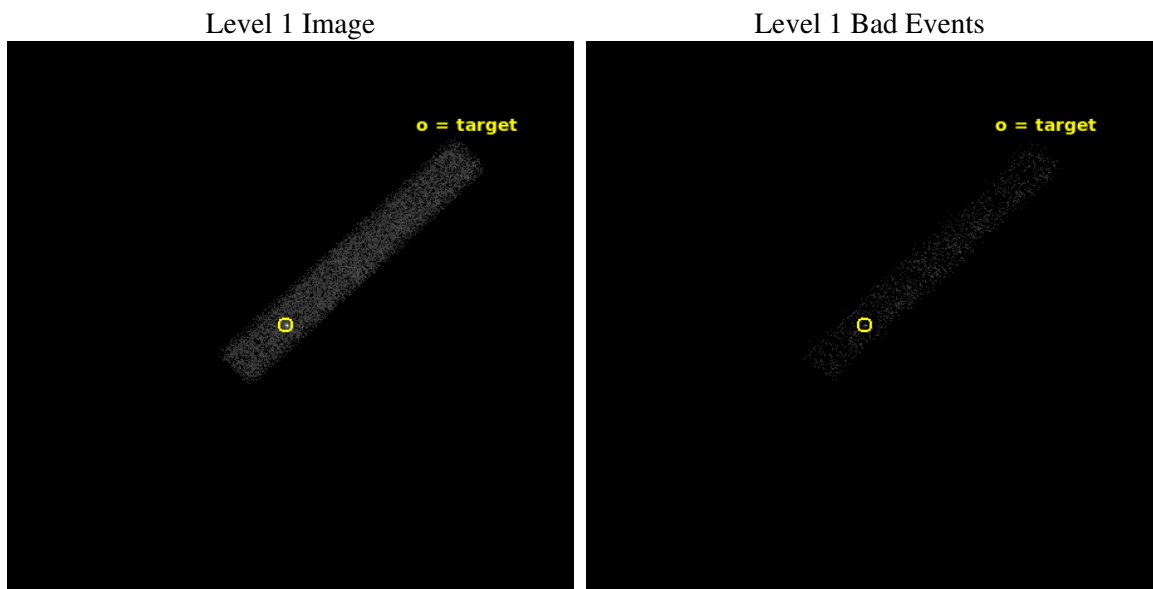
seq_num	201170	Sequence number
obs_id	20148	Observation id
title	Tracking changes in the magnetosphere of HD148937	Proposal title
observer	Yael Naze	Principal investigator
object	HD148937	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	248.468333	Observer's specified target RA [deg]
dec_targ	-48.11125	Observer's specified target Dec [deg]
ra_nom	248.46596086991	Nominal RA [deg]
dec_nom	-48.111583828765	Nominal Dec [deg]
roll_nom	316.15505963858	Nominal Roll [deg]
revision	2	Processing version of data
ontime	10069.599399686	Sum of GTIs [s]
livetime	9132.595138478	Livetime [s]
ontime7	10069.599399686	Sum of GTIs [s]
l2events	10174	Number of level 2 events



## 2 OBI

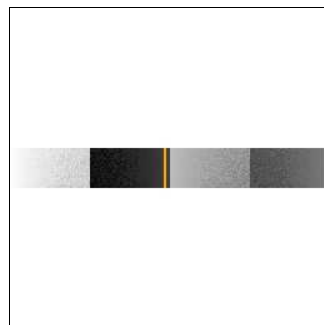
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	10069.599399686	Sum of GTIs [s]
caldsver	4.9.3	&#160	ontime7	10069.599399686	Sum of GTIs [s]
date	2020-10-26T08:59:10	Date and time of file creation	l1events	17401	Number of level 1 events
revision	2	Processing version of data			

### 2.1.4 Events

	<b>ccd 7</b>
level 1 events	17401
rejected events	6926
rejected %	39%

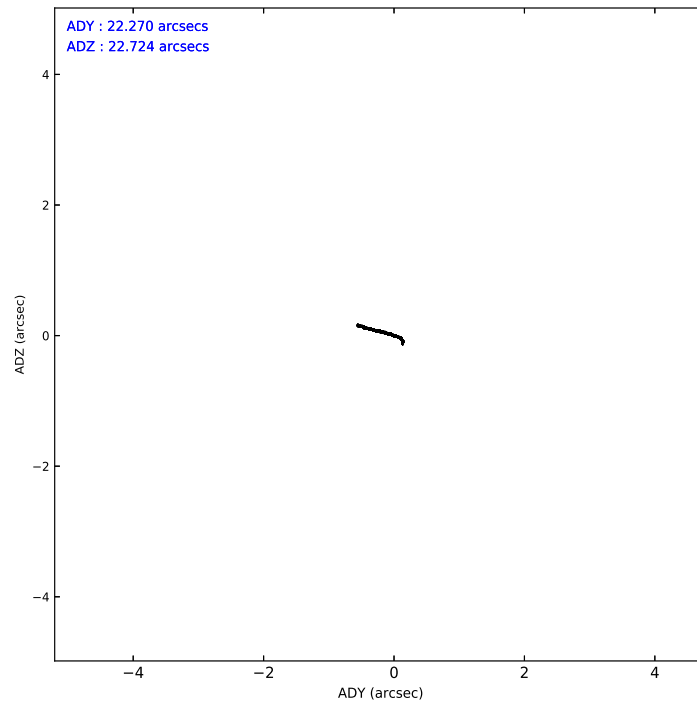
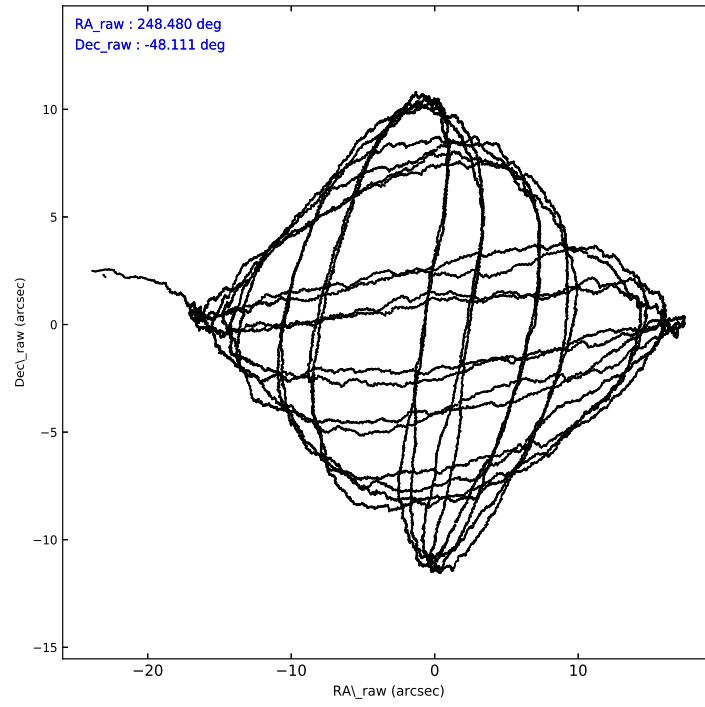
	<b>ccd 7</b>
grade 0 events	1635
	9%
grade 1 events	30
	0%
grade 2 events	2388
	13%
grade 3 events	1327
	7%
grade 4 events	1216
	6%
grade 5 events	1428
	8%
grade 6 events	3909
	22%
grade 7 events	5468
	31%

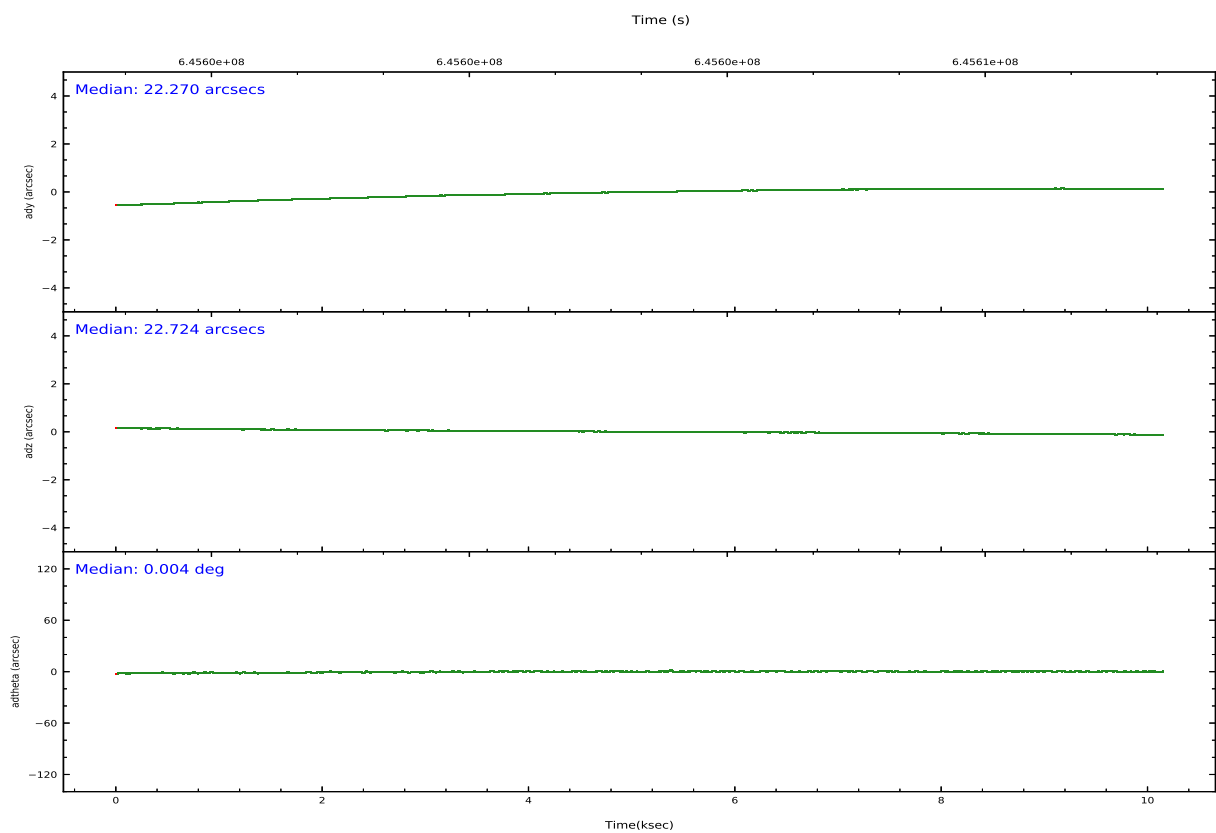
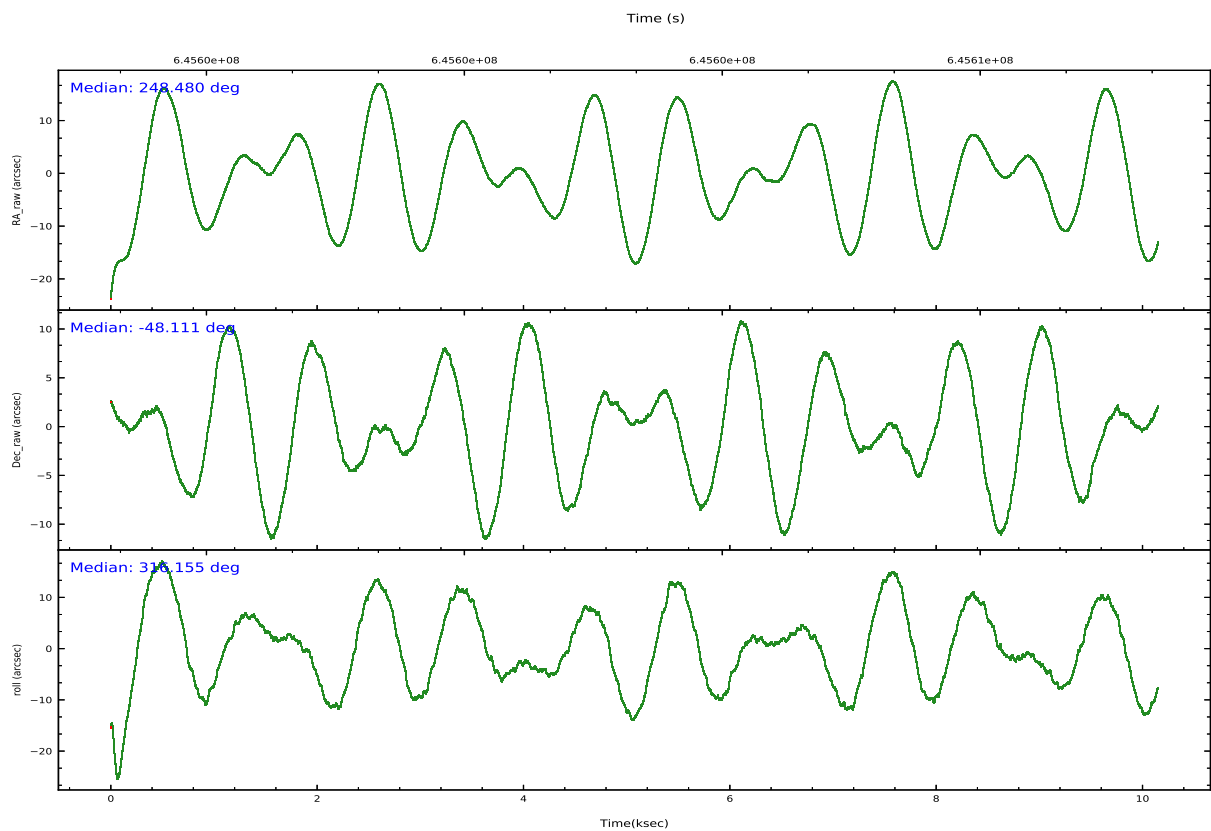


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-7	ACIS-7	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	248.439717	248.46596086991	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	-48.105126	-48.111583828765	Subarray start row	449	449
[deg] Pointing Roll	315.978701	316.15505963858	Subarray row count	128	128
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	0.4
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	645599224.184000	645597749.51671			
Observation start date	2018-06-17T05:05:55	2018-06-17T04:42:29			
[s] Observation end time (MET)	645609224.184000	645610385.71746			
Observation end date	2018-06-17T07:52:35	2018-06-17T08:13:05			
Read mode	TIMED	TIMED			

## 2.3 Aspect



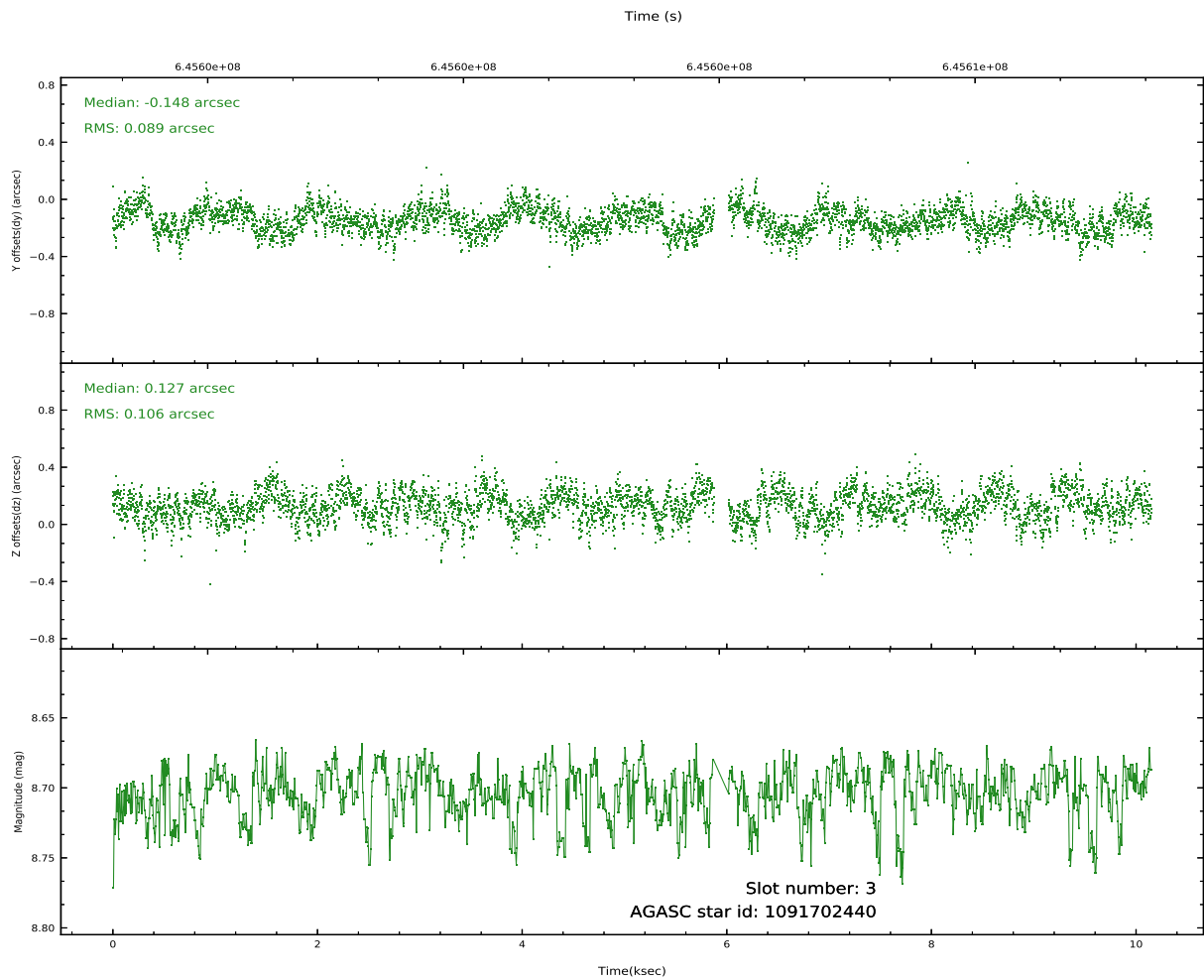
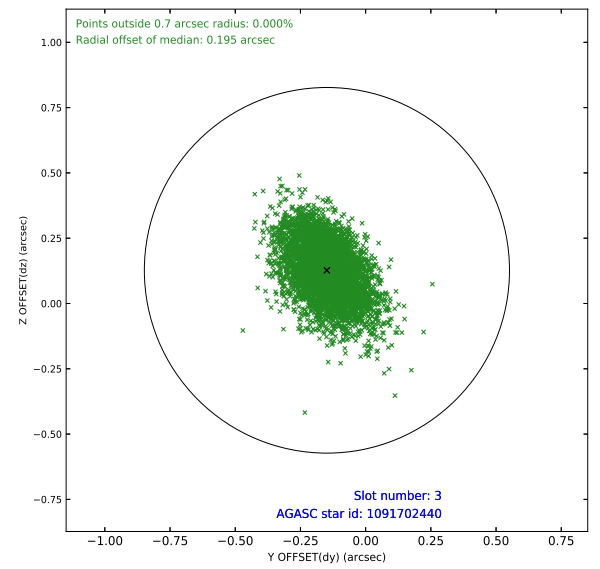
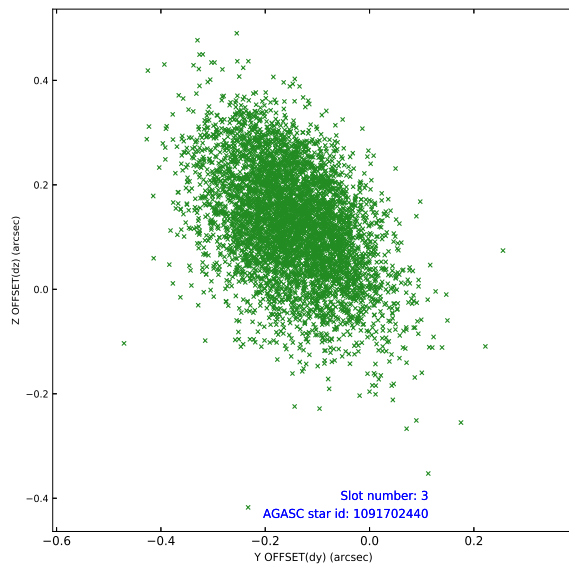


Slot Statistics

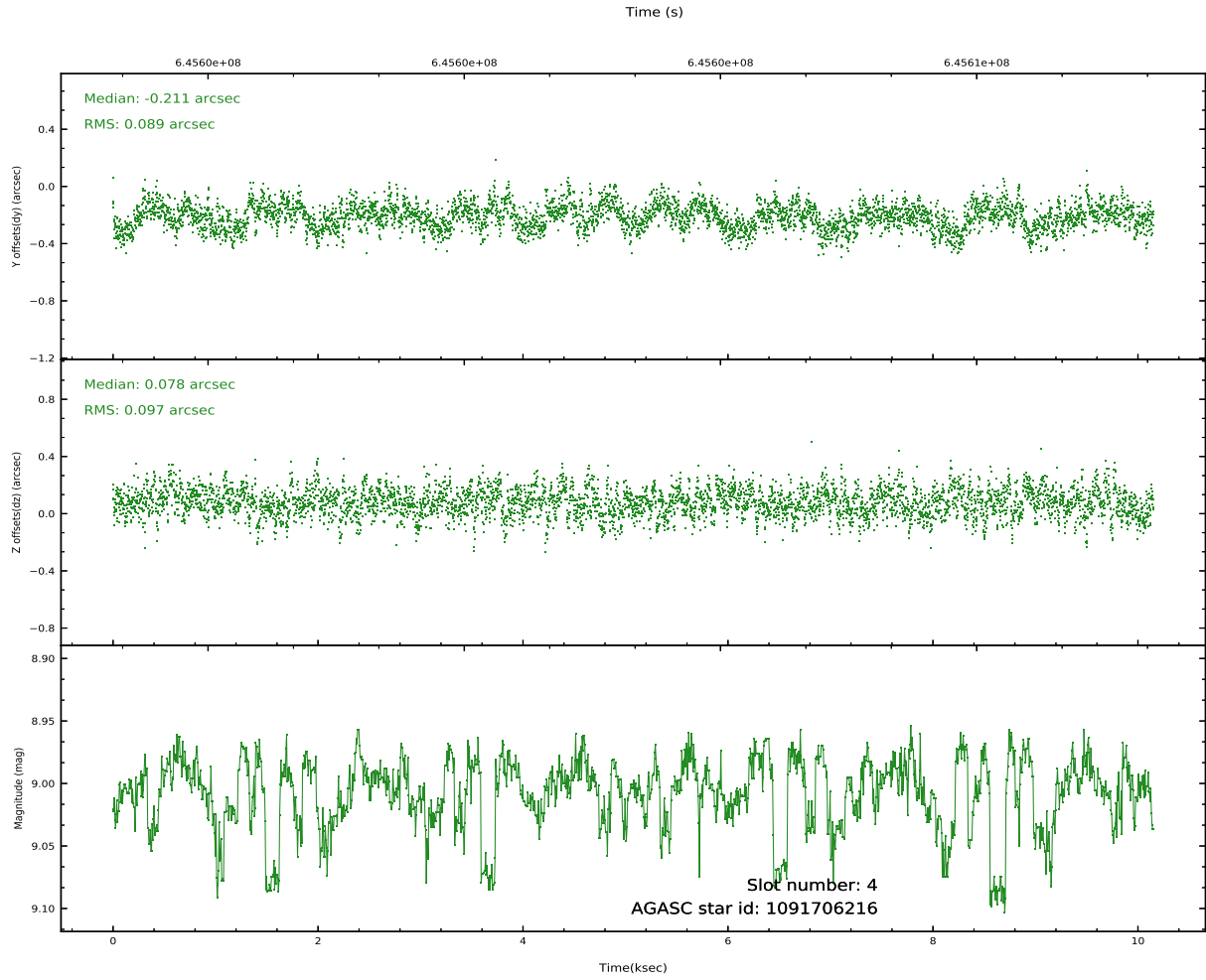
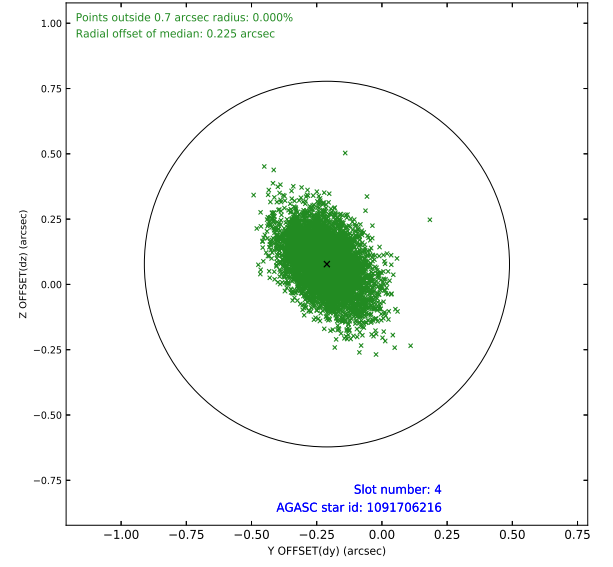
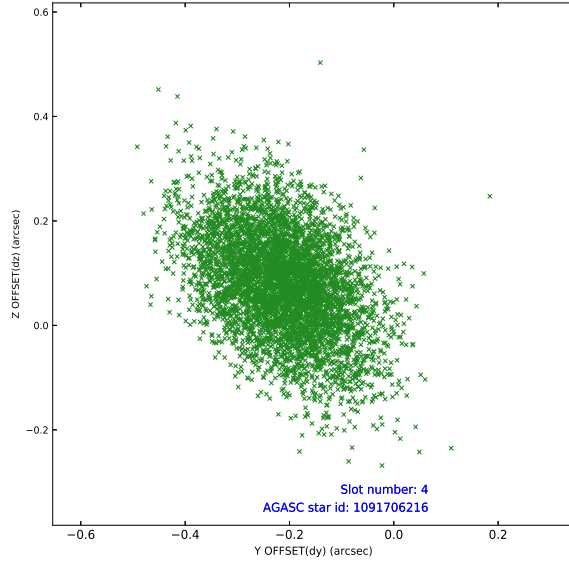
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-1	7.09	2477	1.000	0.336	-0.059	0.012	0.021	0.000000	0.000000	920.70	-1740
1	FID		ACIS-S-4	7.10	2476	1.000	-0.049	-0.115	0.010	0.017	0.000000	0.000000	2138.33	163
2	FID		ACIS-S-5	7.12	2476	1.000	-0.311	0.187	0.015	0.023	0.000000	0.000000	-1827.83	158
3	GUIDE	used	1091702440	8.70	4878	1.000	-0.148	0.127	0.145	0.240	248.295809	-47.683380	-1305.31	849
4	GUIDE	used	1091706216	9.00	4946	1.000	-0.211	0.078	0.138	0.231	248.520013	-47.617493	-1079.73	1398
5	GUIDE	used	1091726152	7.18	4951	1.000	0.043	0.044	0.138	0.249	248.525265	-48.461492	1038.94	-779
6	GUIDE	used	1091705224	9.19	4945	1.000	0.067	0.079	0.168	0.278	248.613211	-47.940846	-108.98	715
7	GUIDE	used	1092229944	8.74	4947	1.000	0.251	-0.318	0.140	0.238	248.528773	-48.881371	2094.70	-1862

## 2.4 Star Slots

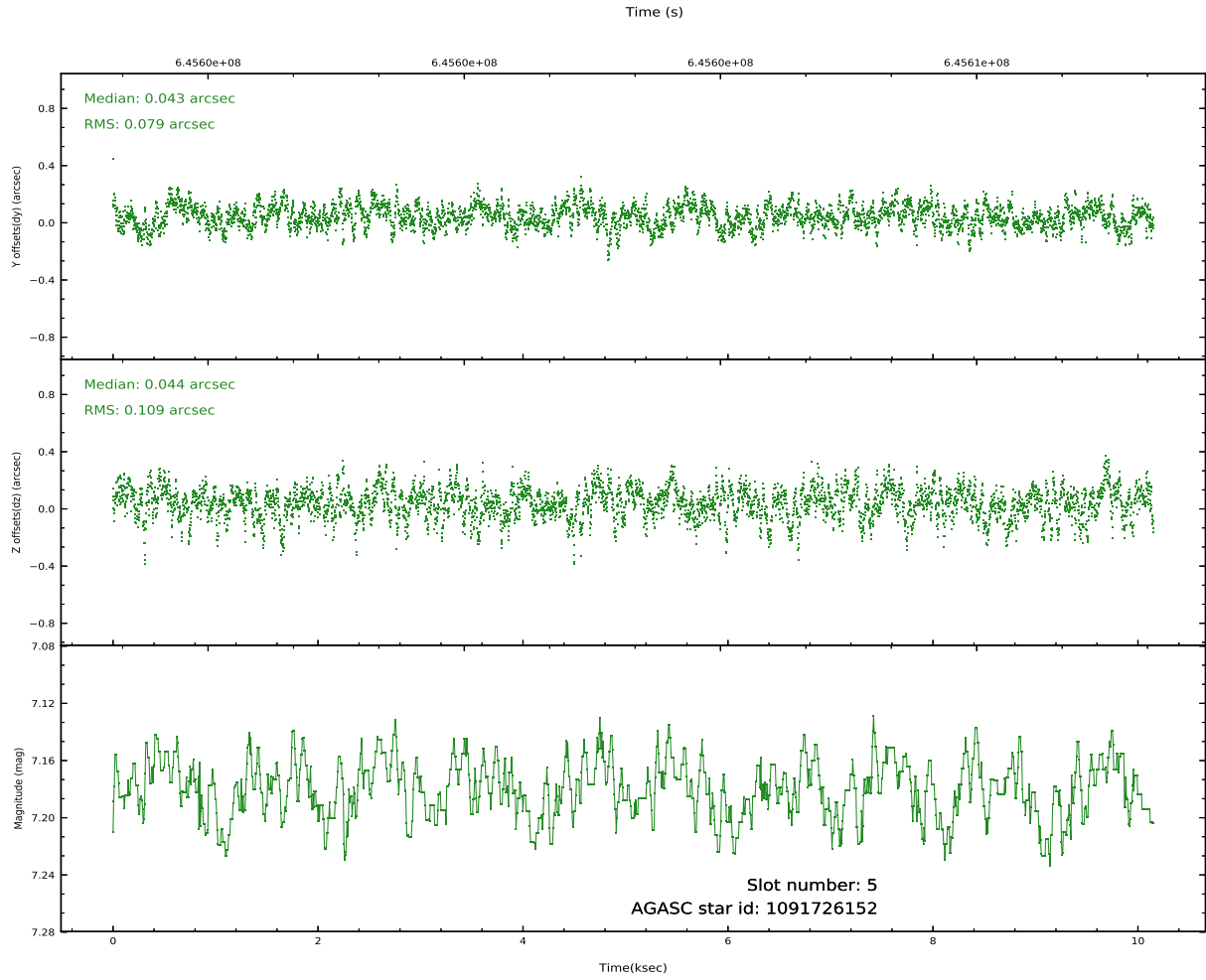
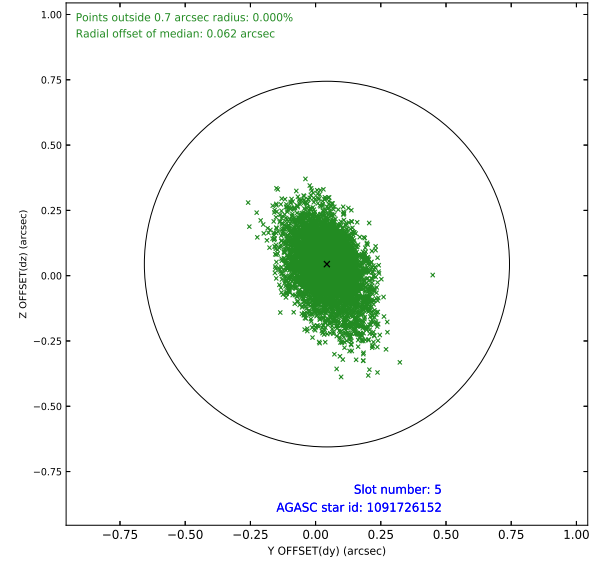
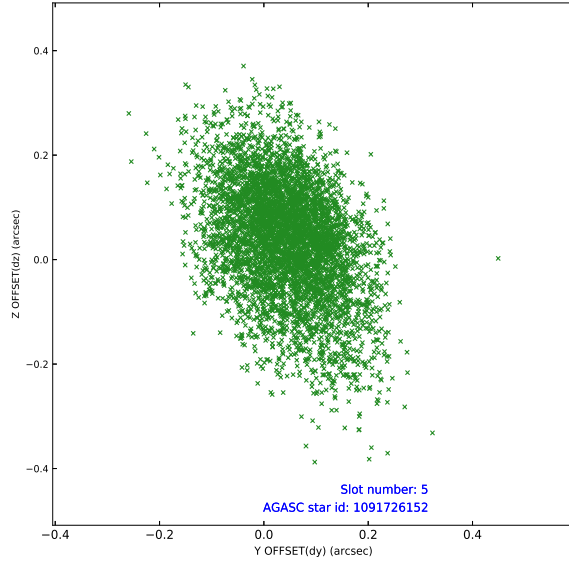
### 2.4.1 Slot 3



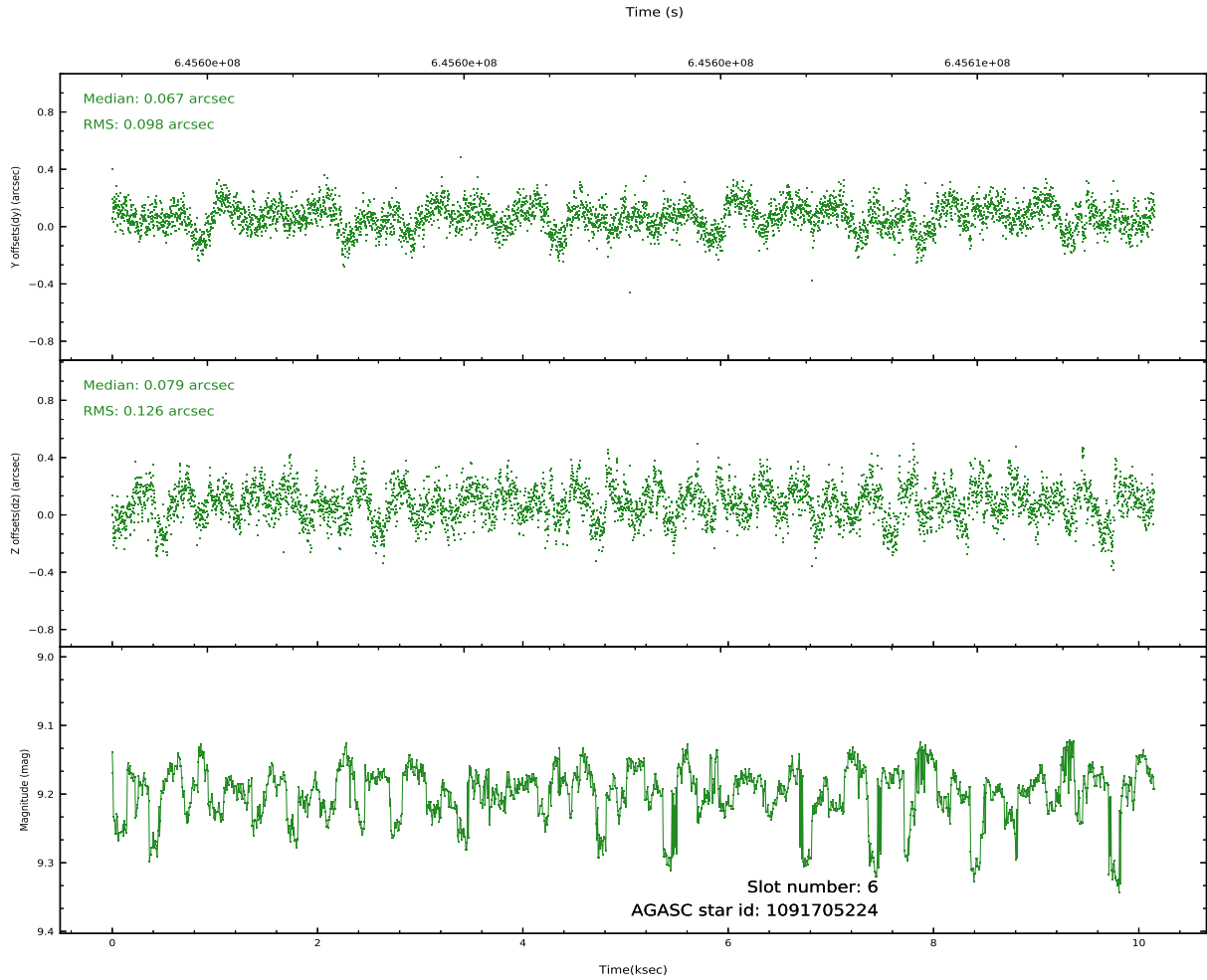
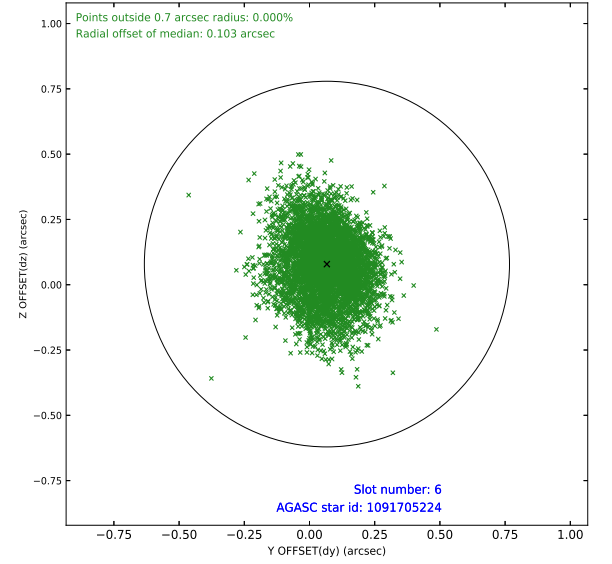
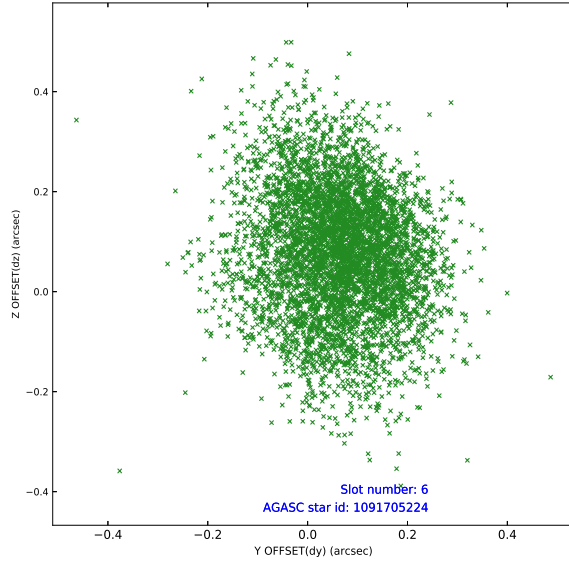
## 2.4.2 Slot 4



### 2.4.3 Slot 5

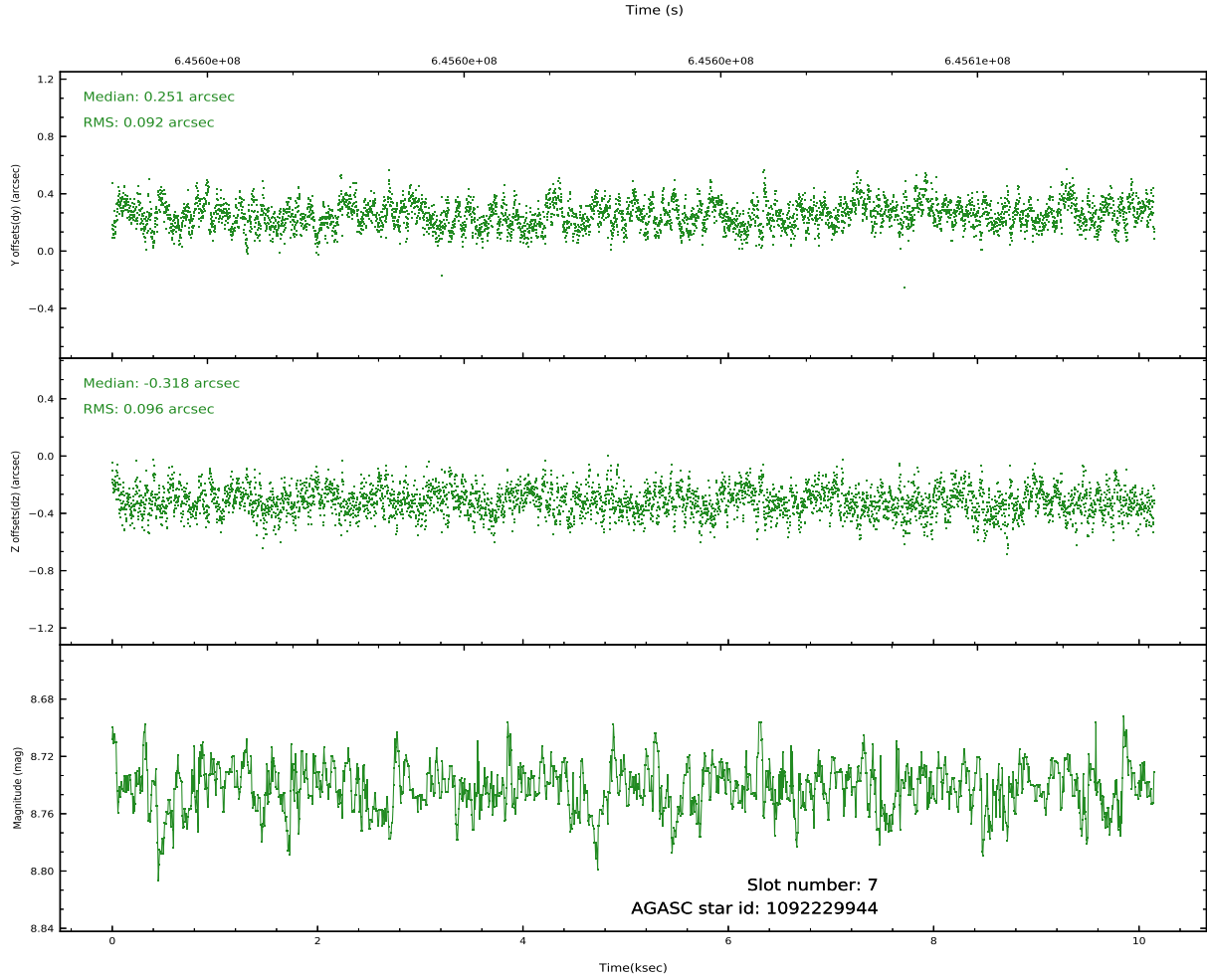
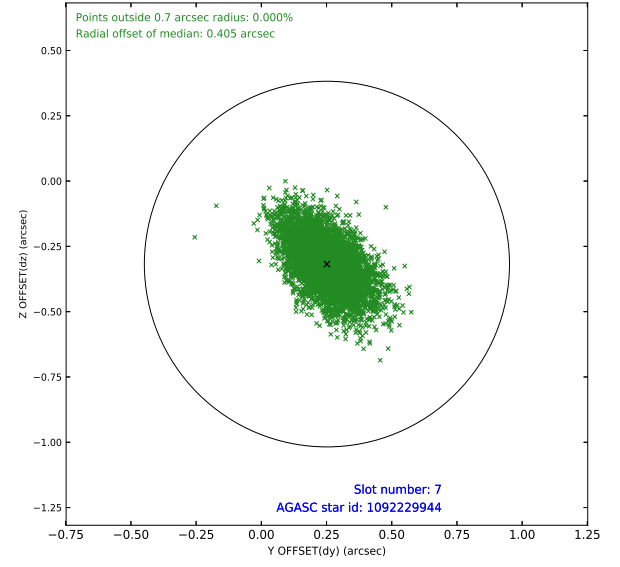
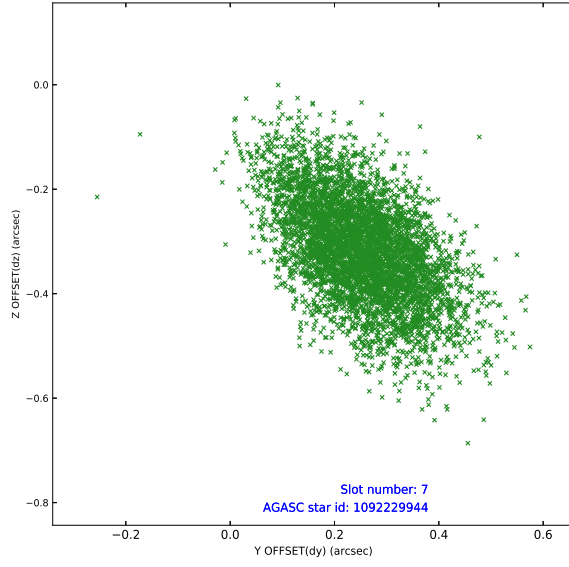


## 2.4.4 Slot 6



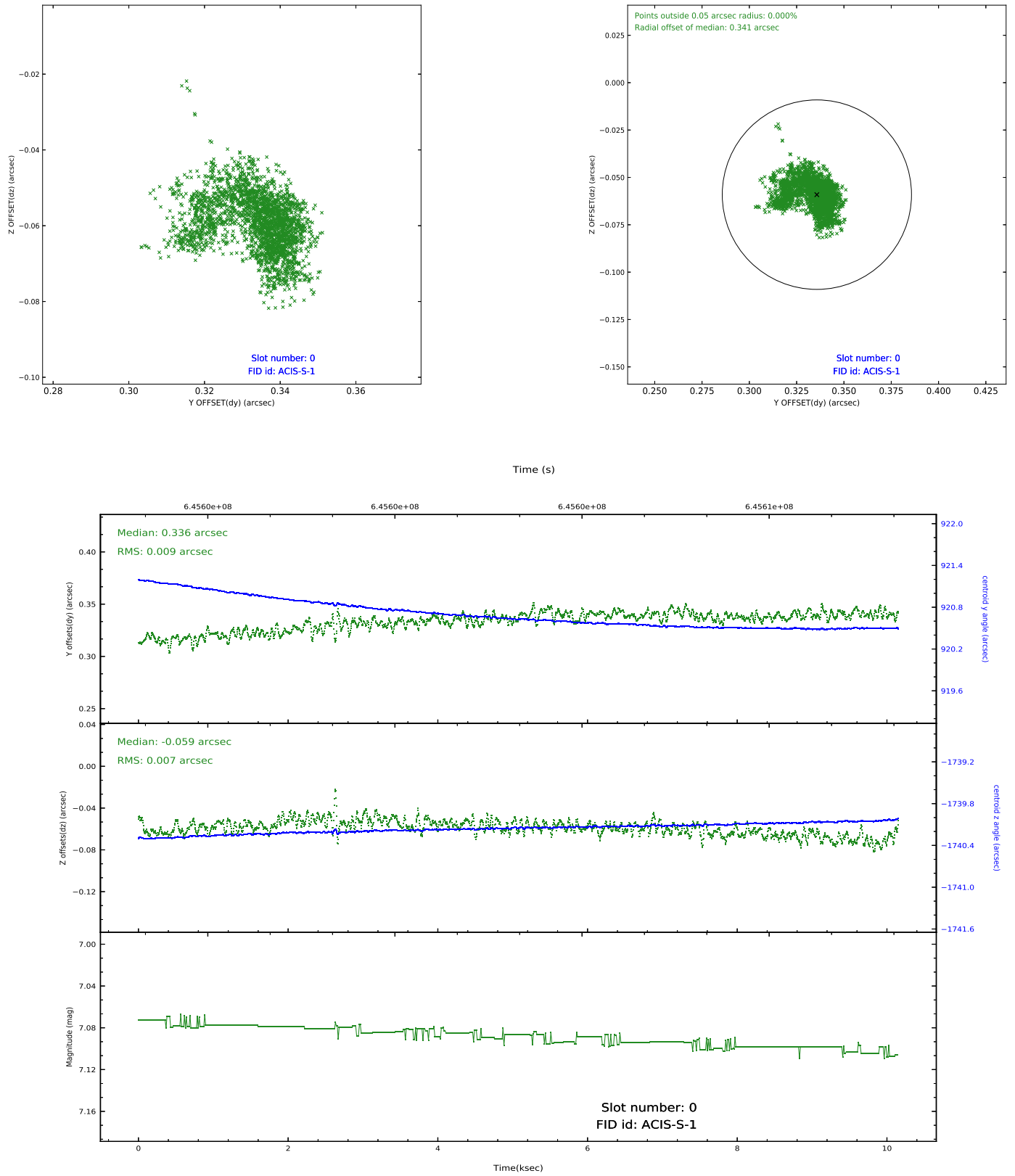


## 2.4.5 Slot 7

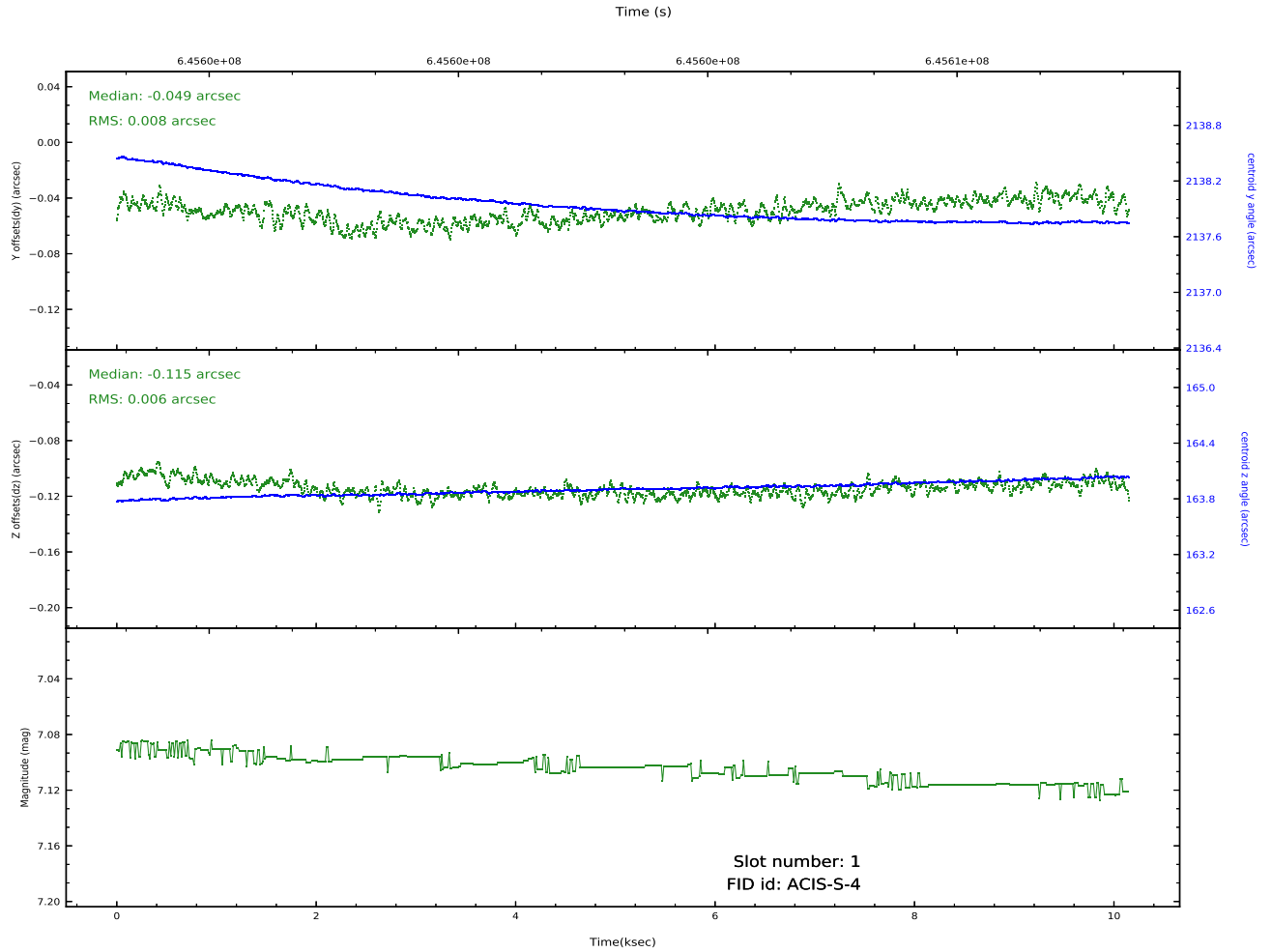
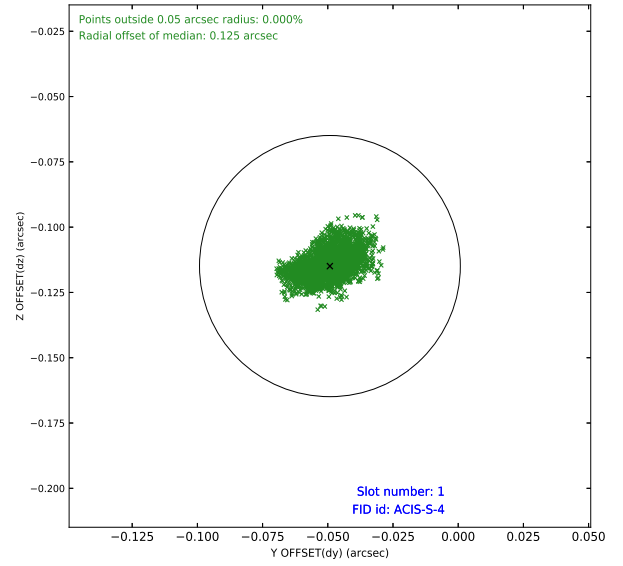
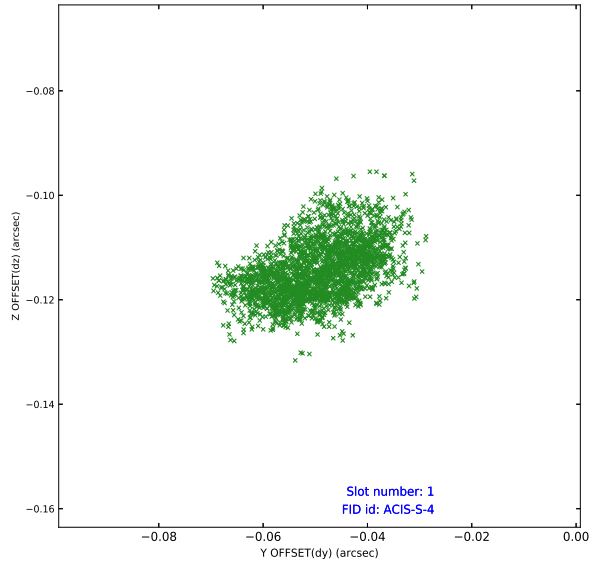


## 2.5 FID Slots

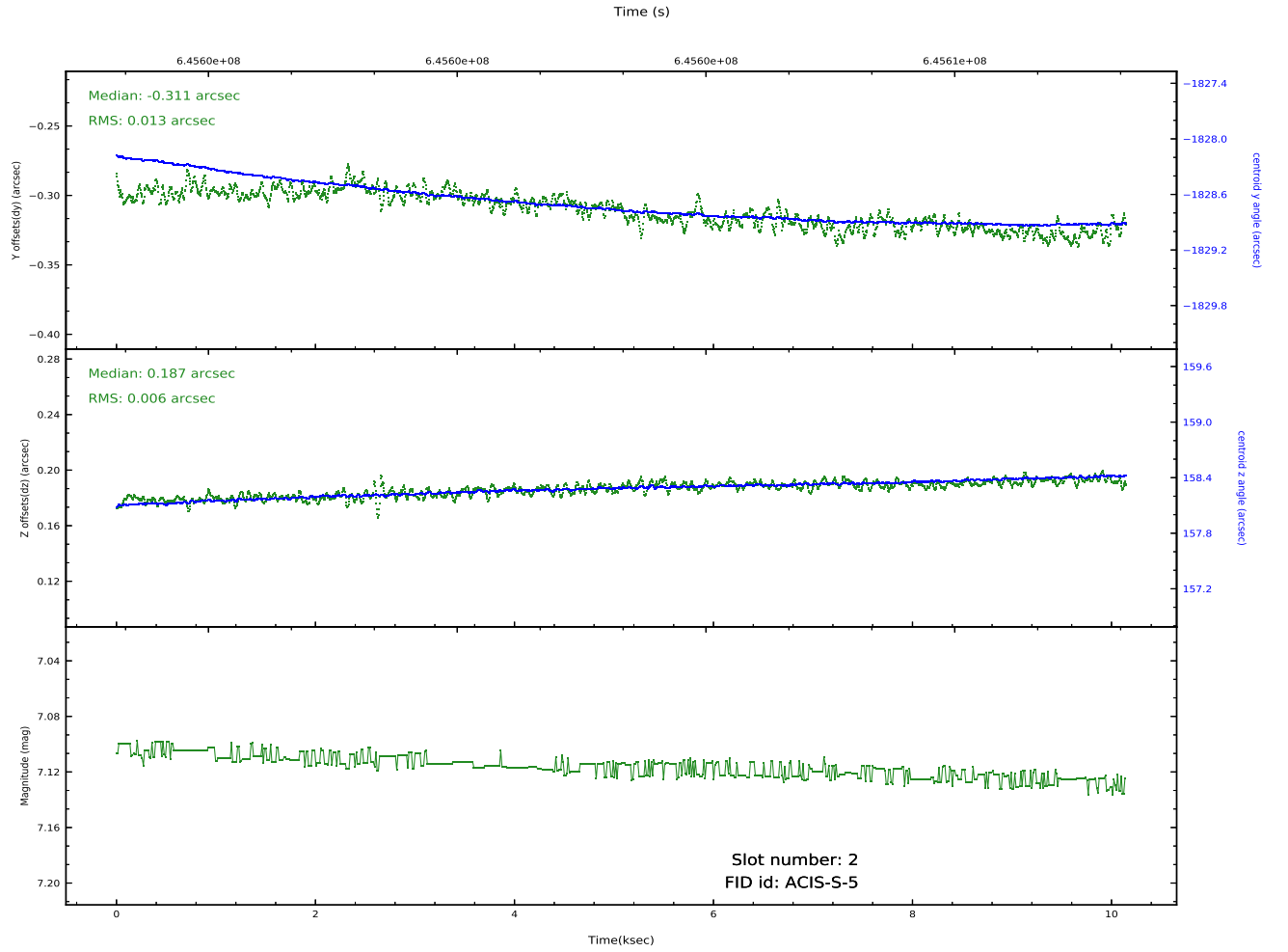
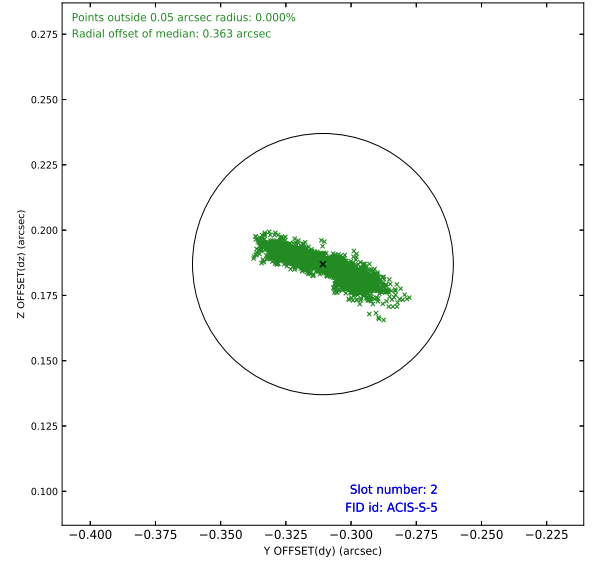
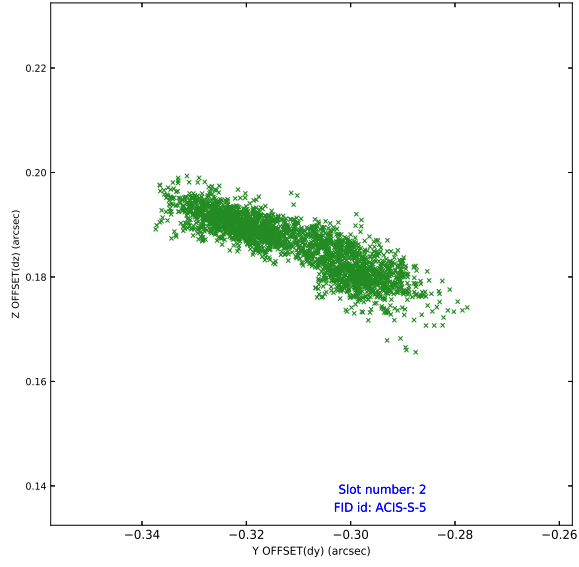
### 2.5.1 Slot 0



## 2.5.2 Slot 1



## 2.5.3 Slot 2



## A Summary

### A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2020.10.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.069599399686

### A.2 Comments