

# V&V Reference Report

## L2 ASCDS Version : 10.9.1

Observation 5971 - L2 Version 4  
Chandra X-Ray Center

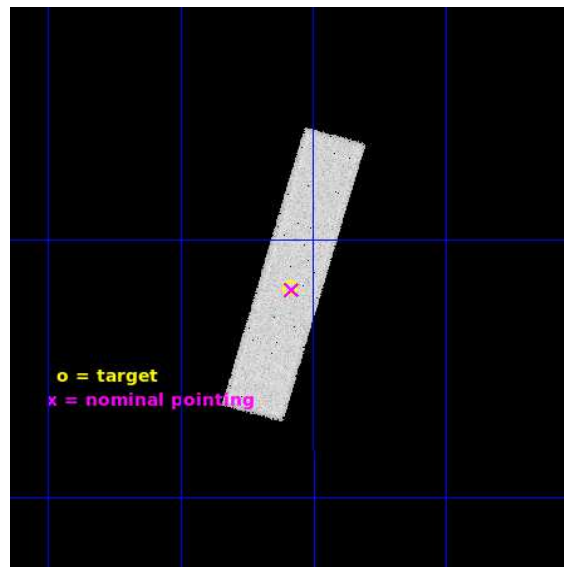
L2 Processing Date : Oct 6 2020

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# 1 Front

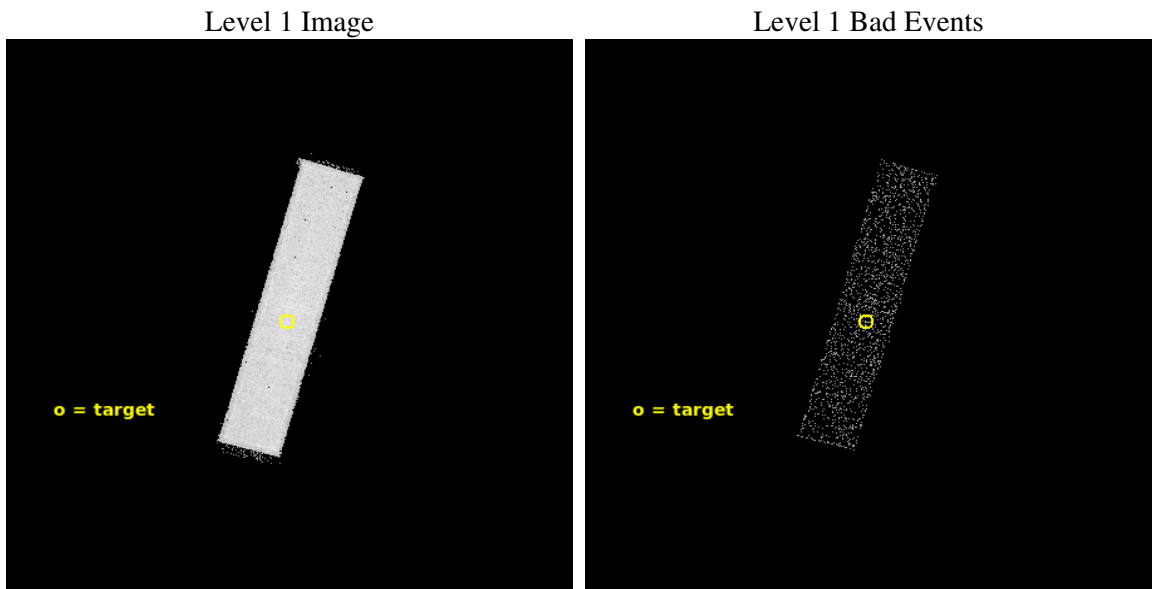
seq_num	290463	Sequence number
obs_id	5971	Observation id
title	AO6 Measurements of the optical/UV Transmission of the HRC and ACIS Filters.	Proposal title
observer	CXC Calibration	Principal investigator
object	Betelgeuse	Source name
ra_targ	88.792917	Observer's specified target RA [deg]
dec_targ	7.407056	Observer's specified target Dec [deg]
ra_nom	88.790117929807	Nominal RA [deg]
dec_nom	7.4038464695368	Nominal Dec [deg]
roll_nom	285.90174322759	Nominal Roll [deg]
revision	4	Processing version of data
ontime	2152.7563473582	[s]
livetime	2140.3392783427	Ontime multiplied by DTCOR
l2events	79654	Number of level 2 events



## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



### 2.1.2 Parameters

obi_num	0	Obi number	sched_exp_time	2000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	2152.7563473582	[s]
caldbver	4.9.2	&#160	l1events	110554	Number of level 1 events
date	2020-10-06T14:45:18	Date and time of file creation			
revision	4	Processing version of data			

### 2.1.3 Events

Level 1 Events

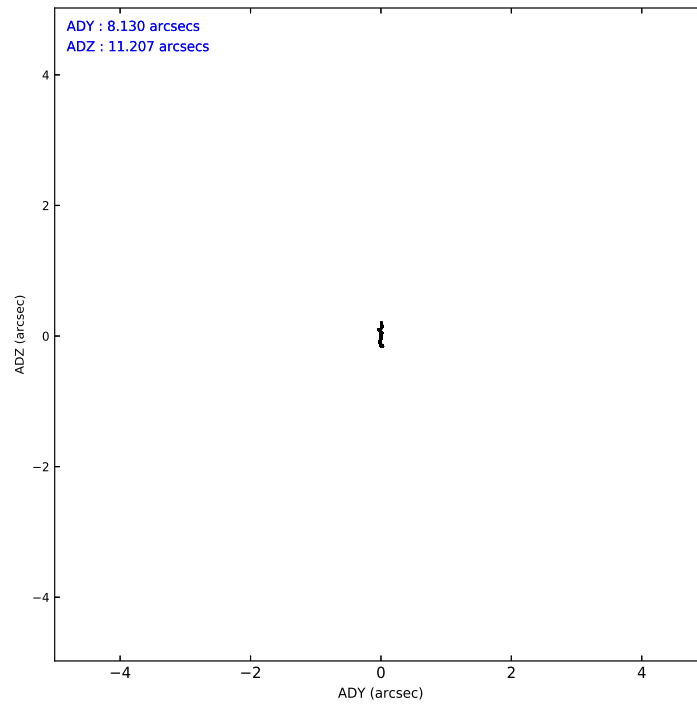
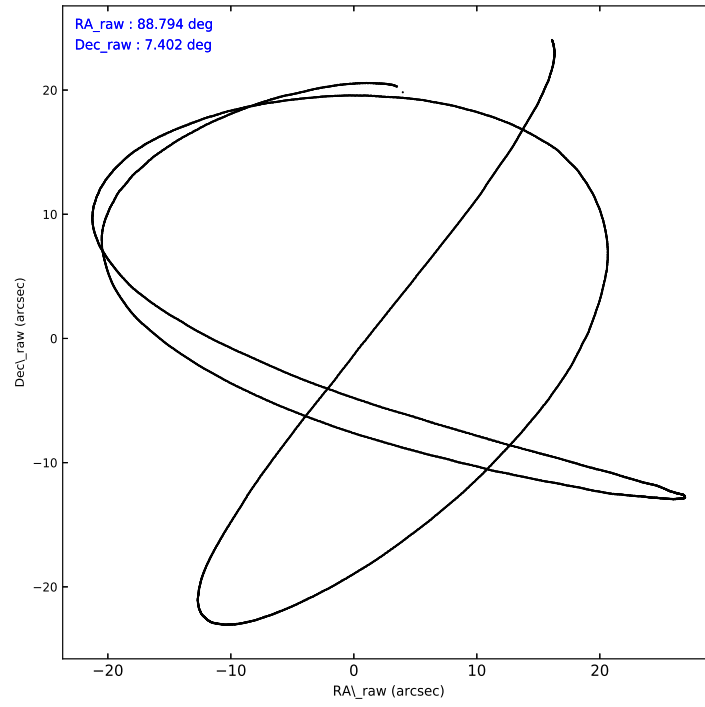
	segment 1	segment 2	segment 3
level 1 events	0	110554	0
rejected events	0	8234	0
rejected %	0%	7%	0%

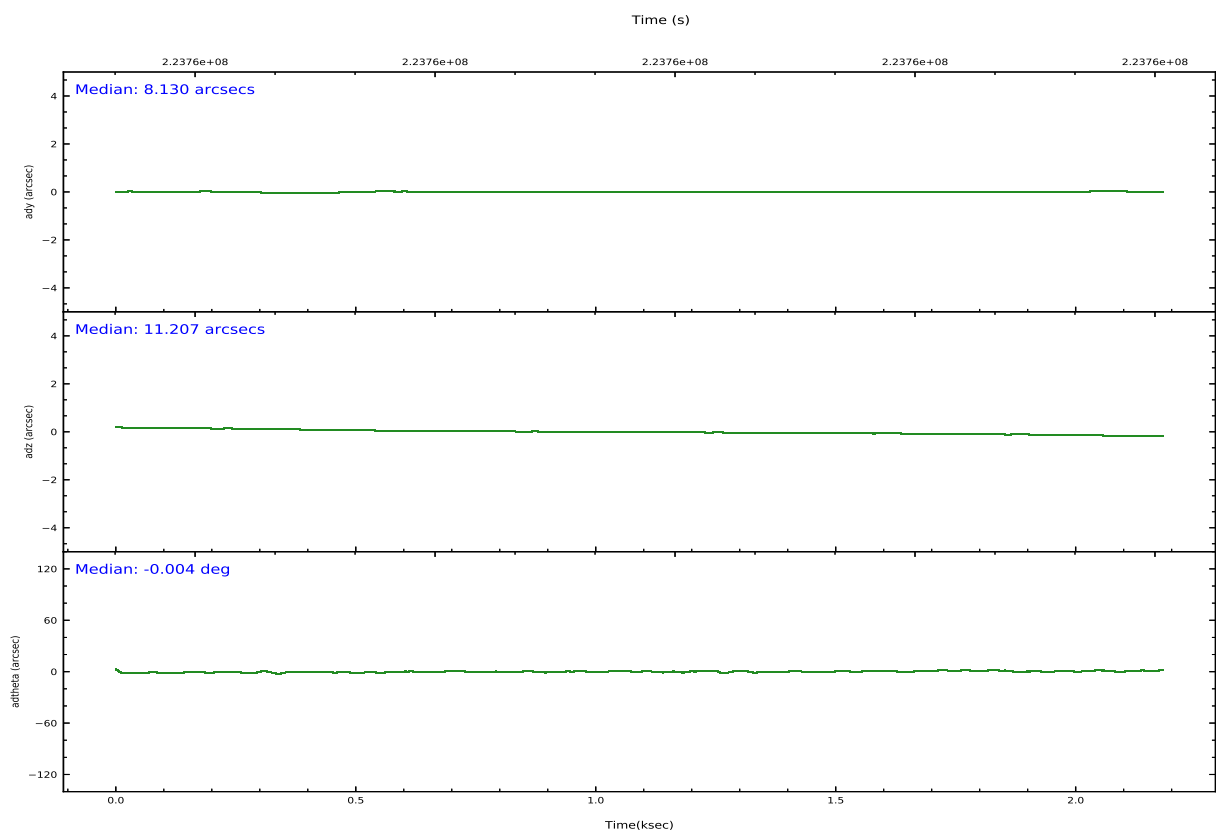
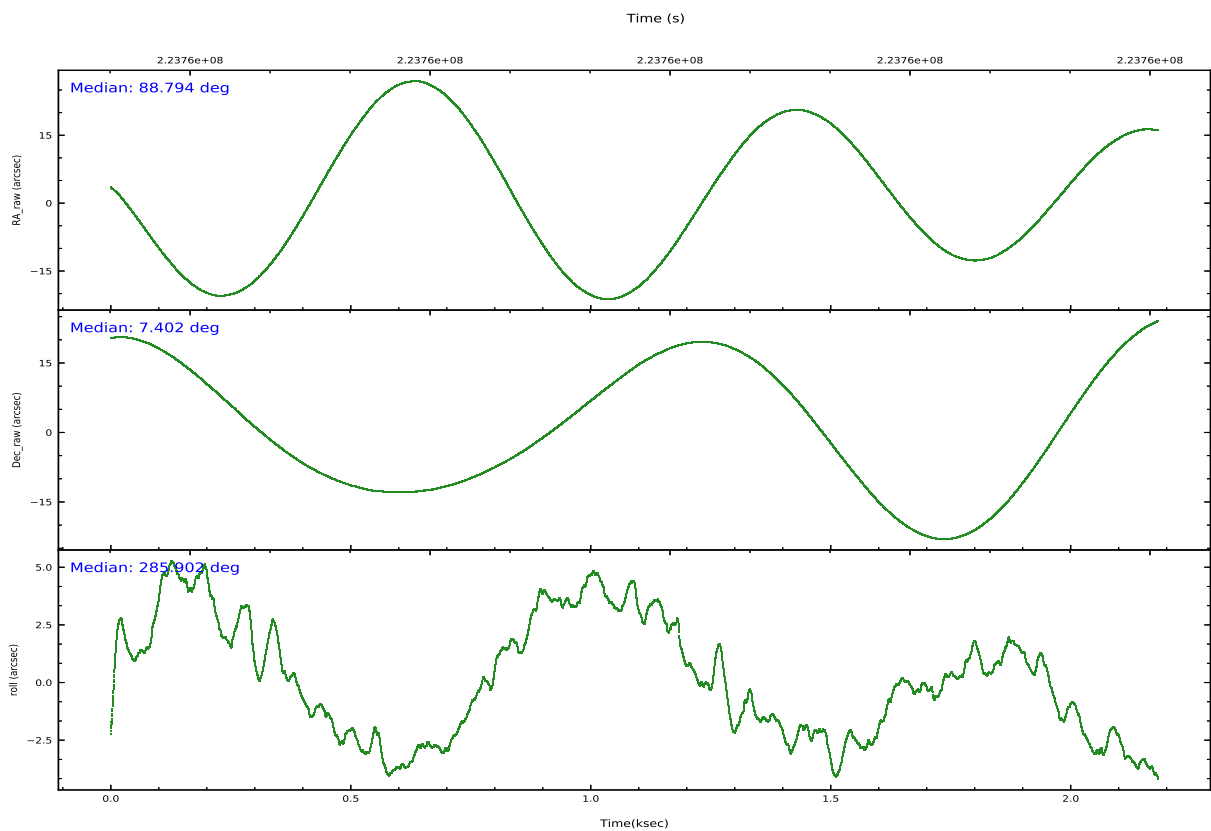
## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	HRC	HRC
Detector	HRC-S	HRC-S
Grating	NONE	NONE
Data mode	OBSERVING	OBSERVING
Observation mode	POINTING	POINTING
[deg] Pointing RA	88.772398	88.790117929807
[deg] Pointing Dec	7.421380	7.4038464695368
[deg] Pointing Roll	285.836674	285.90174322759
[s] Window start time (MET)	223603264.184000	223603264.184000
[s] Window stop time (MET)	228614464.184000	228614464.184000
[mm] SIM focus pos	-1.429586	-1.428180813131781
[mm] SIM defocus	0.1037507710433287	0.1051558262725154
[mm] SIM translation stage pos	250.455976	250.466033080201
[mm] SIM translation stage offset	0	-0.01005468664627074
[s] Observation start time (MET)	223760017.184000	223759641.18992
Observation start date	2005-02-02T19:32:33	2005-02-02T19:27:21
[s] Observation end time (MET)	223762017.184000	223762150.90254
Observation end date	2005-02-02T20:05:53	2005-02-02T20:09:10

Parameter	Planned	Actual
Obspar version number	8	8
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED

## 2.3 Aspect





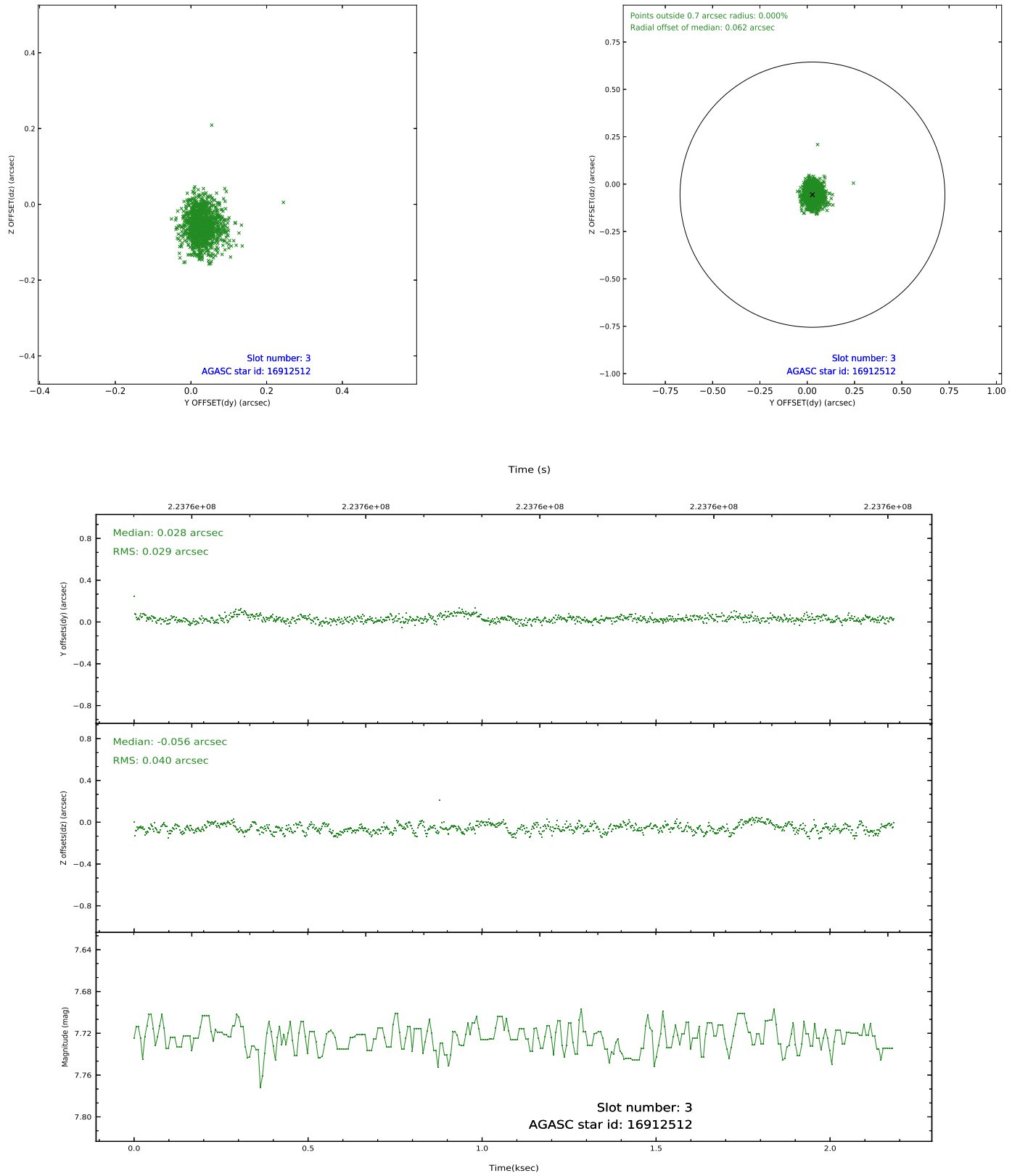
Slot Statistics

pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		HRC-S-2	7.01	533	1.000	0.125	-0.193	0.008	0.015	0.000000	0.000000	1237.38	-452
1	FID		HRC-S-3	7.02	533	1.000	0.047	-0.103	0.006	0.011	0.000000	0.000000	-1162.79	568
2	FID		HRC-S-4	6.98	533	1.000	0.233	-0.000	0.008	0.014	0.000000	0.000000	1233.87	573
3	GUIDE	used	16912512	7.72	1066	1.000	0.028	-0.056	0.052	0.084	88.651510	7.129862	892.16	-700
4	GUIDE	used	16913360	8.33	1064	1.000	0.017	0.115	0.071	0.110	89.178373	7.247125	999.81	1224
5	GUIDE	used	16918912	8.66	1065	1.000	0.208	0.182	0.069	0.117	89.257075	6.922287	2201.82	1178
6	GUIDE	used	93727304	8.27	1066	1.000	-0.213	-0.125	0.064	0.105	88.040179	7.731431	-1786.42	-2206
7	GUIDE	used	93856056	7.98	1065	1.000	-0.041	-0.115	0.062	0.100	88.147460	7.547925	-1049.67	-2022

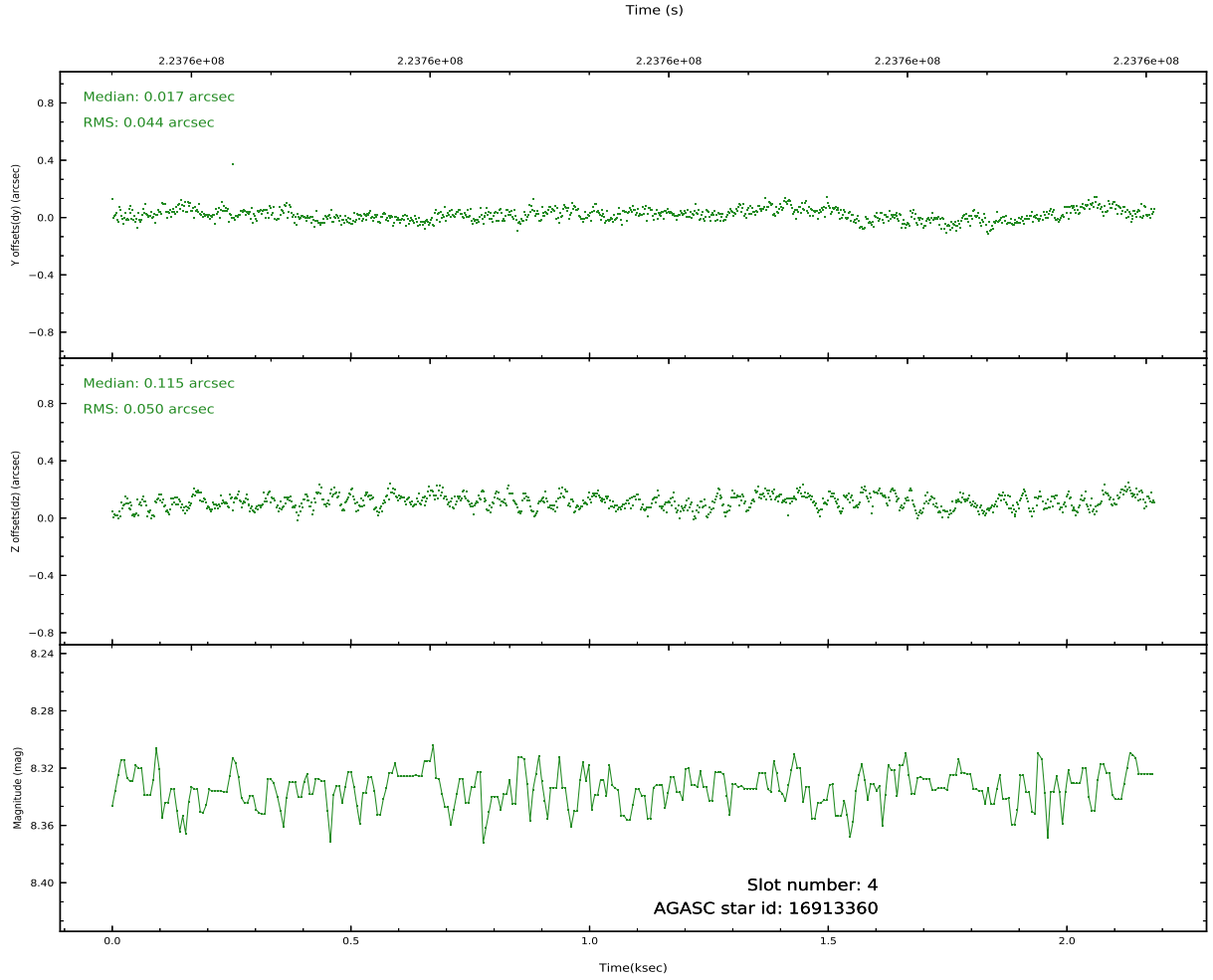
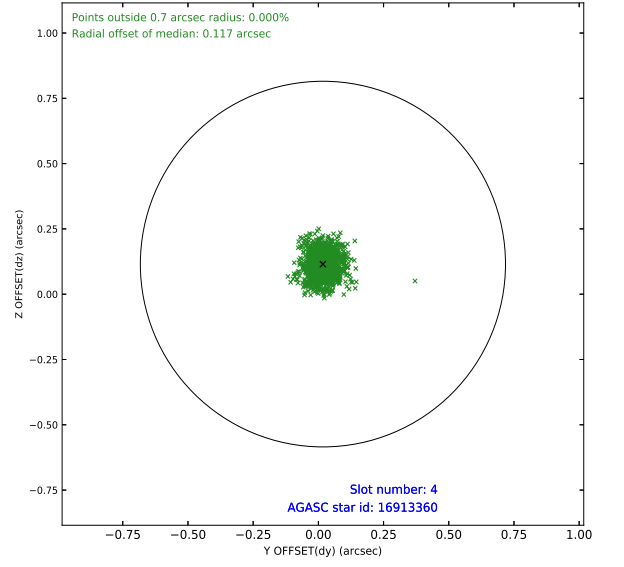
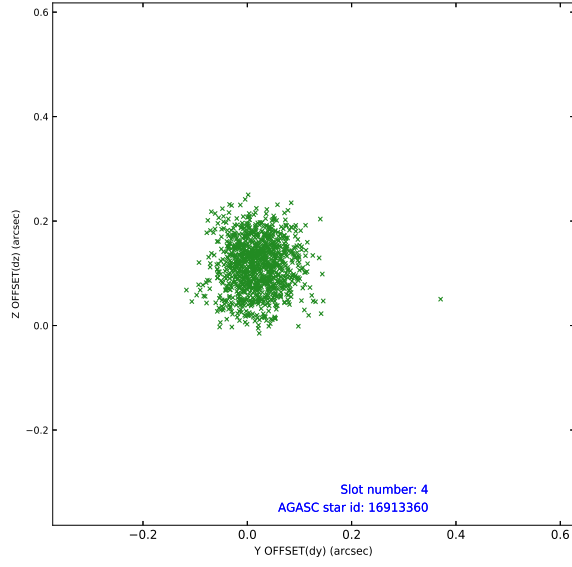


## 2.4 Star Slots

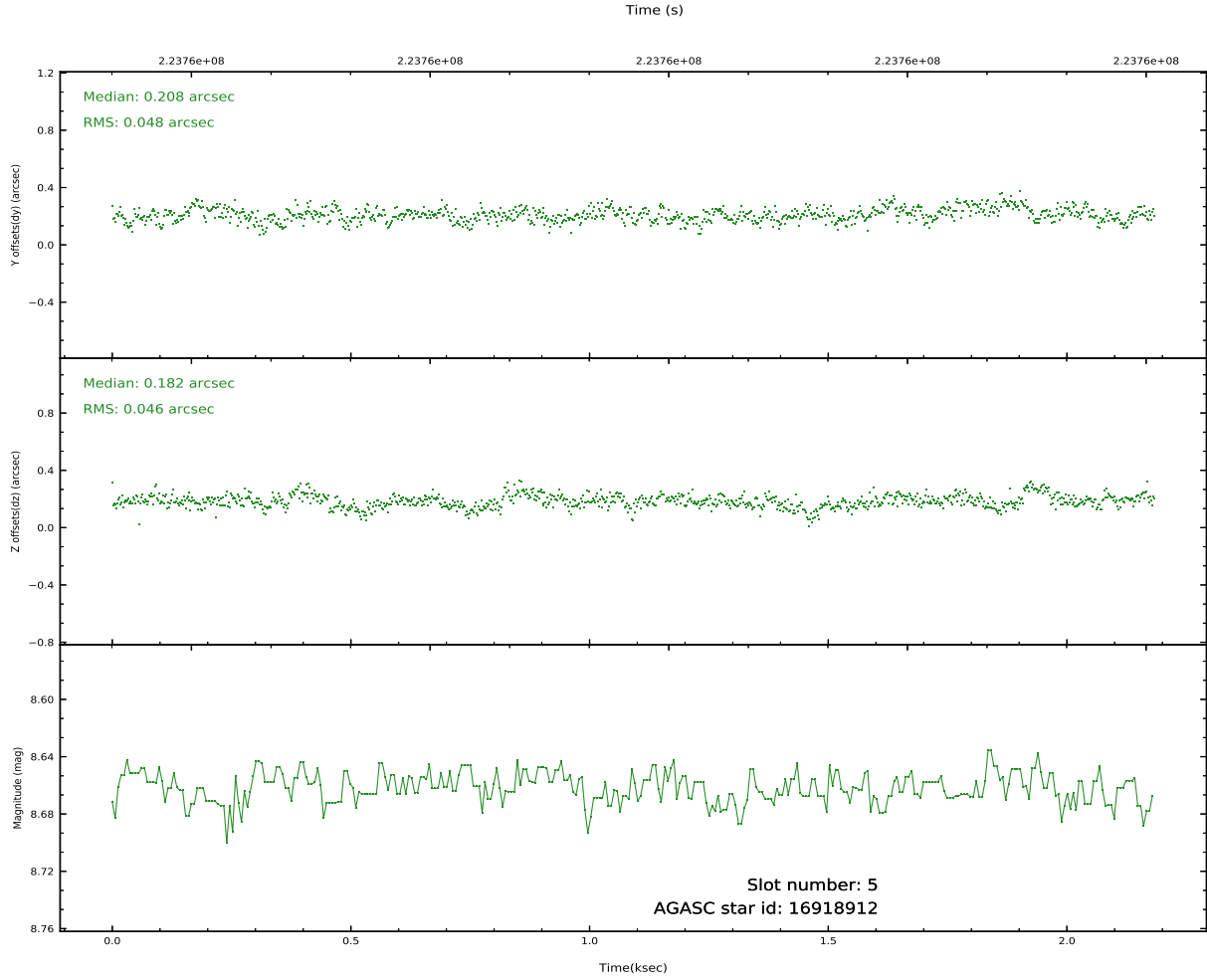
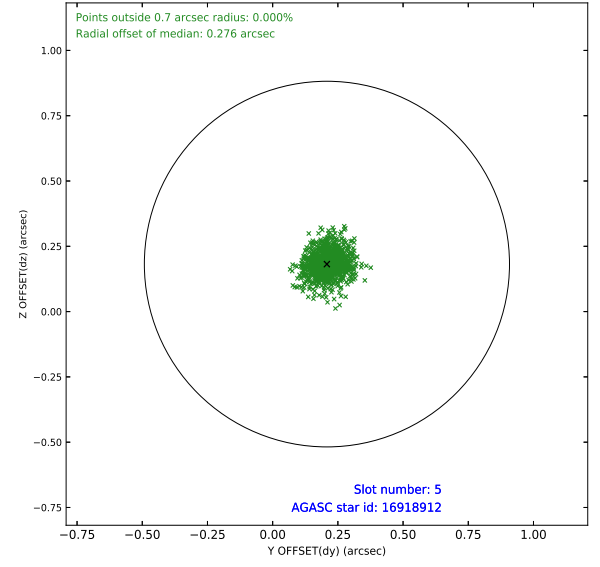
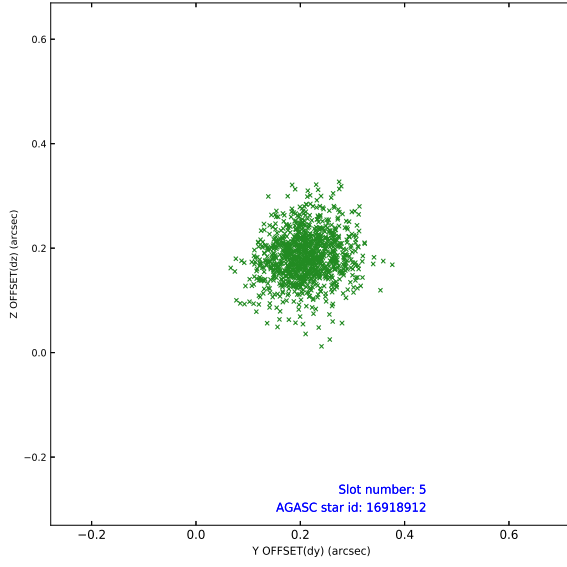
### 2.4.1 Slot 3



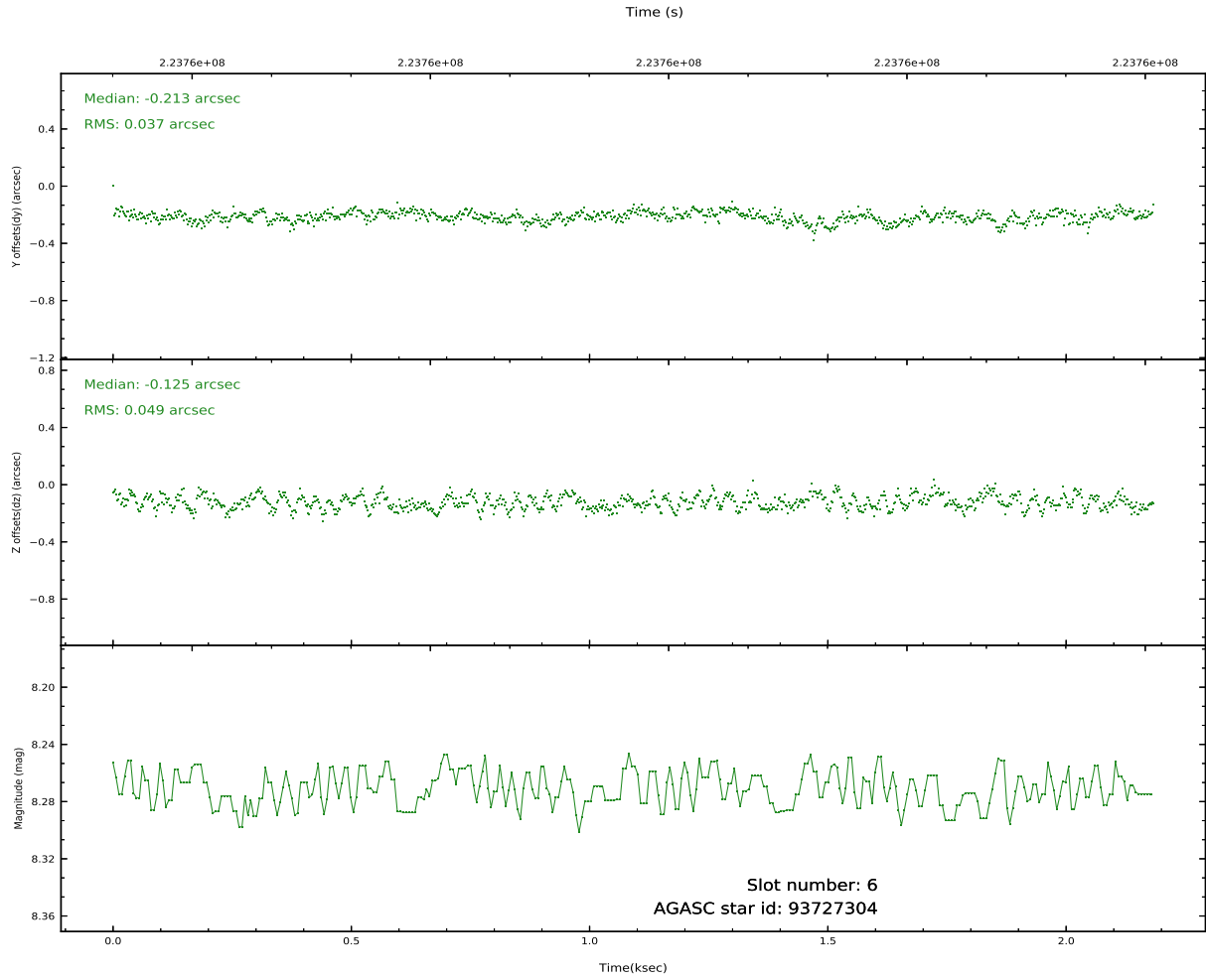
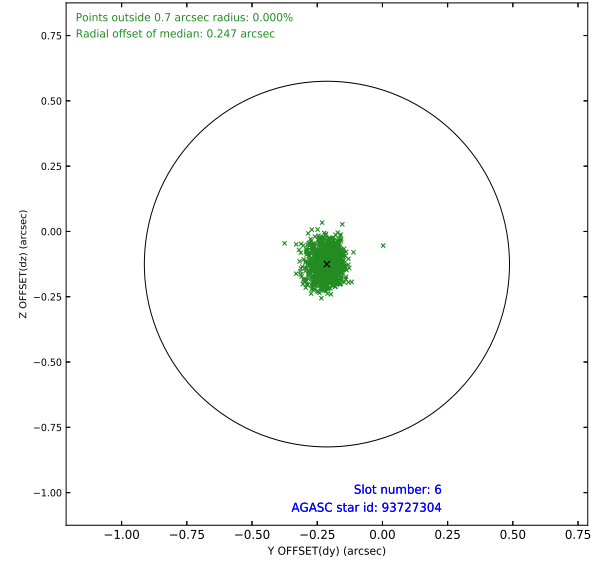
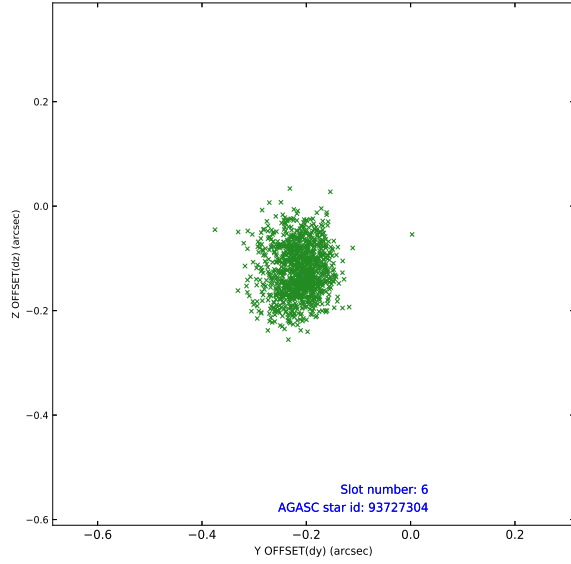
## 2.4.2 Slot 4



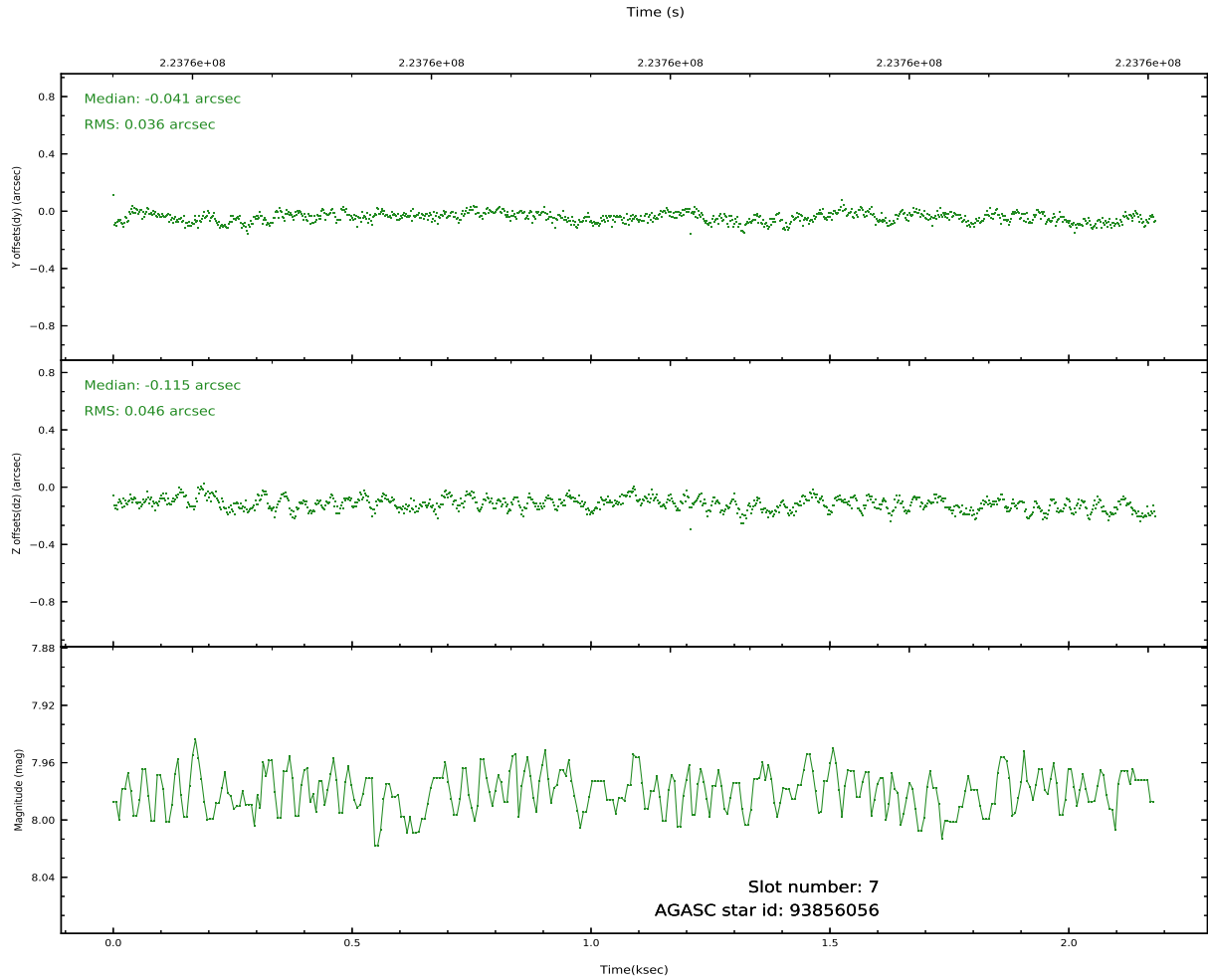
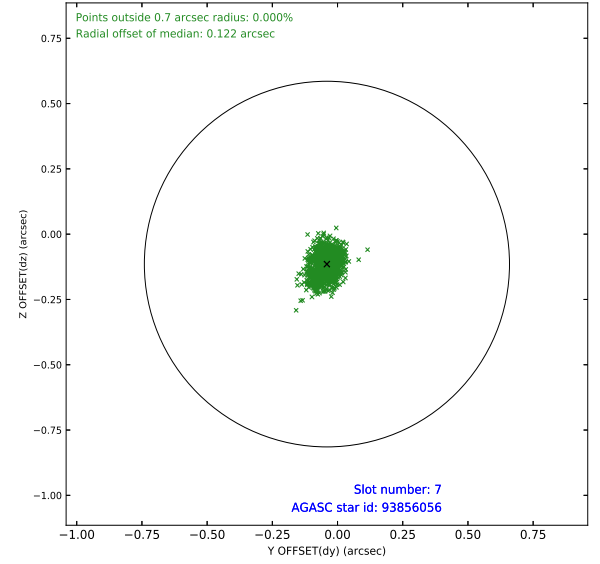
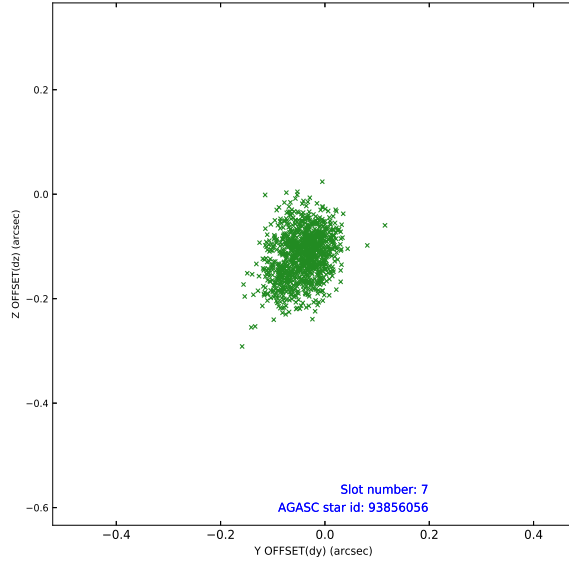
### 2.4.3 Slot 5



## 2.4.4 Slot 6

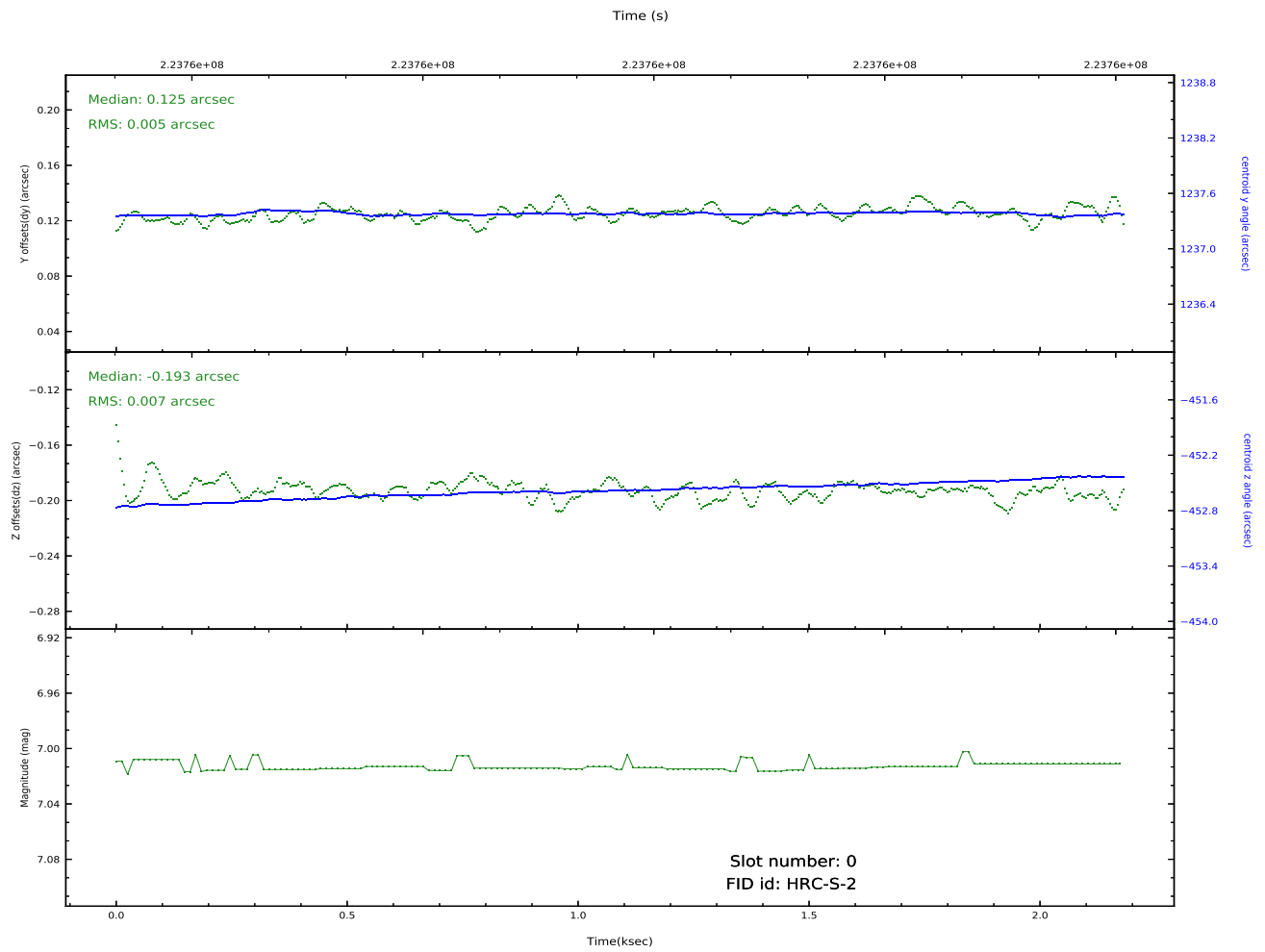
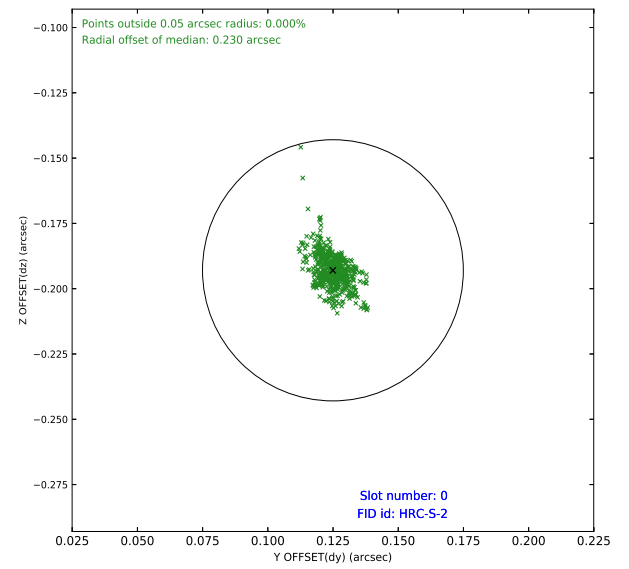
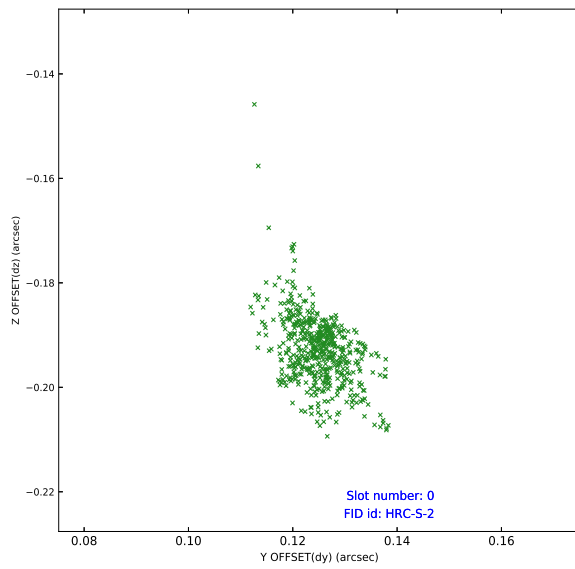


## 2.4.5 Slot 7

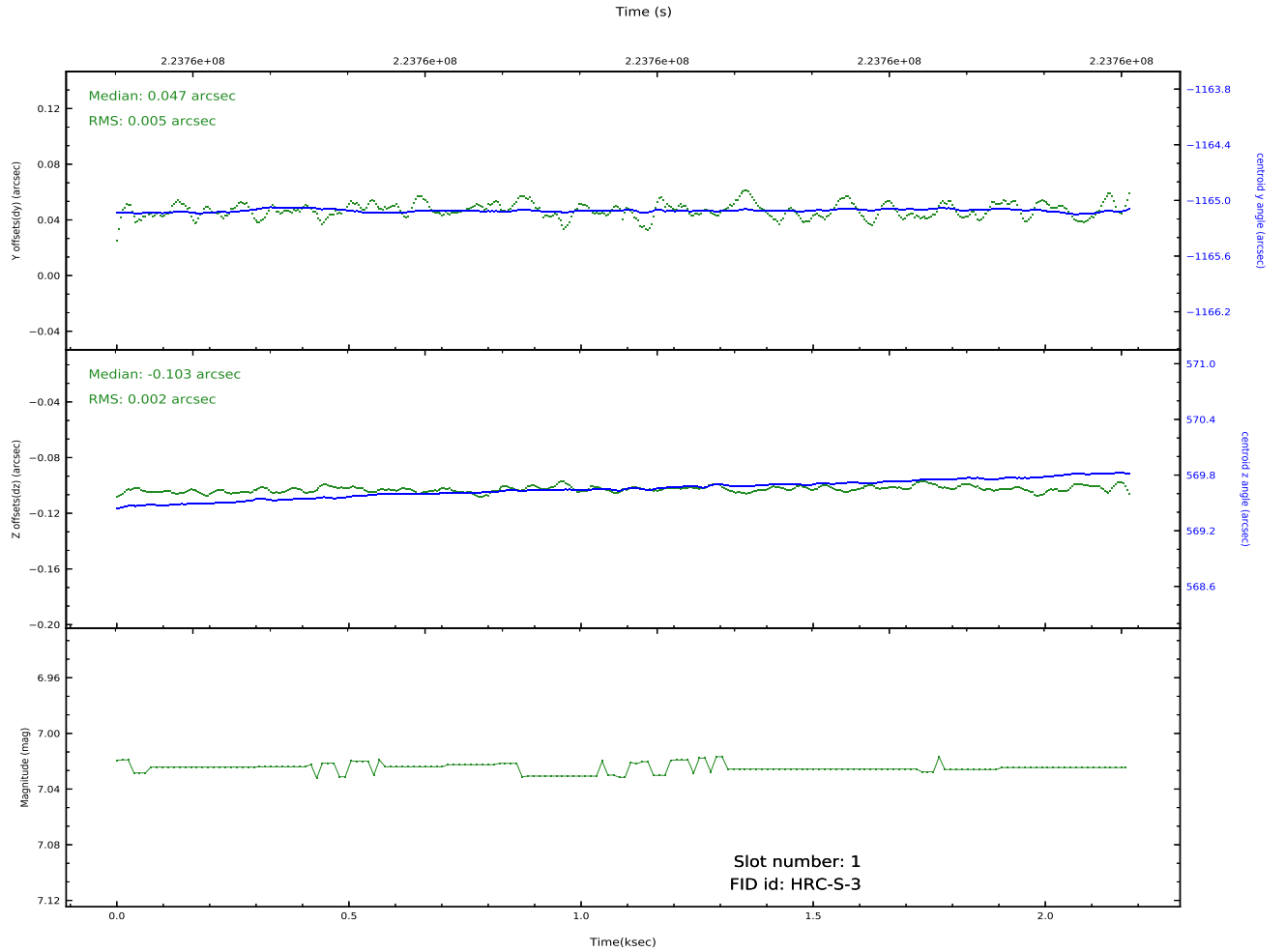
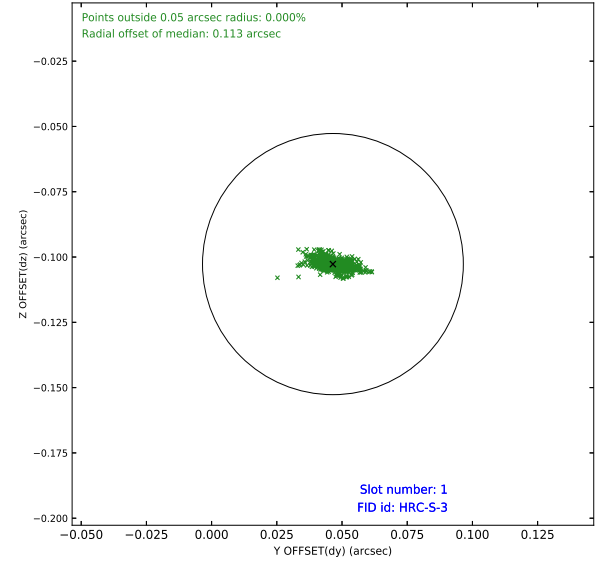
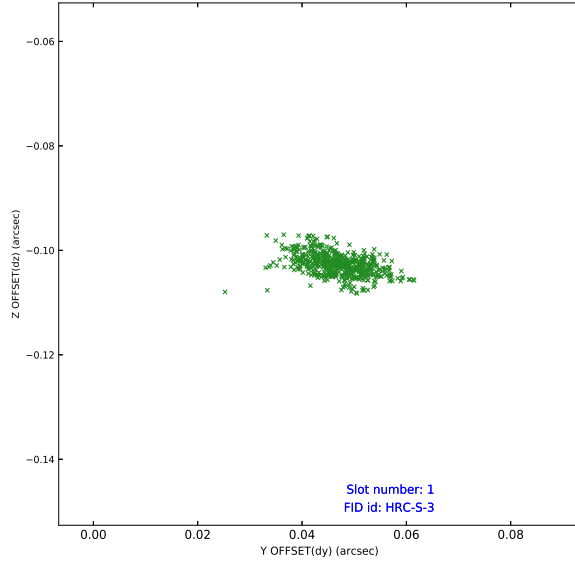


## 2.5 FID Slots

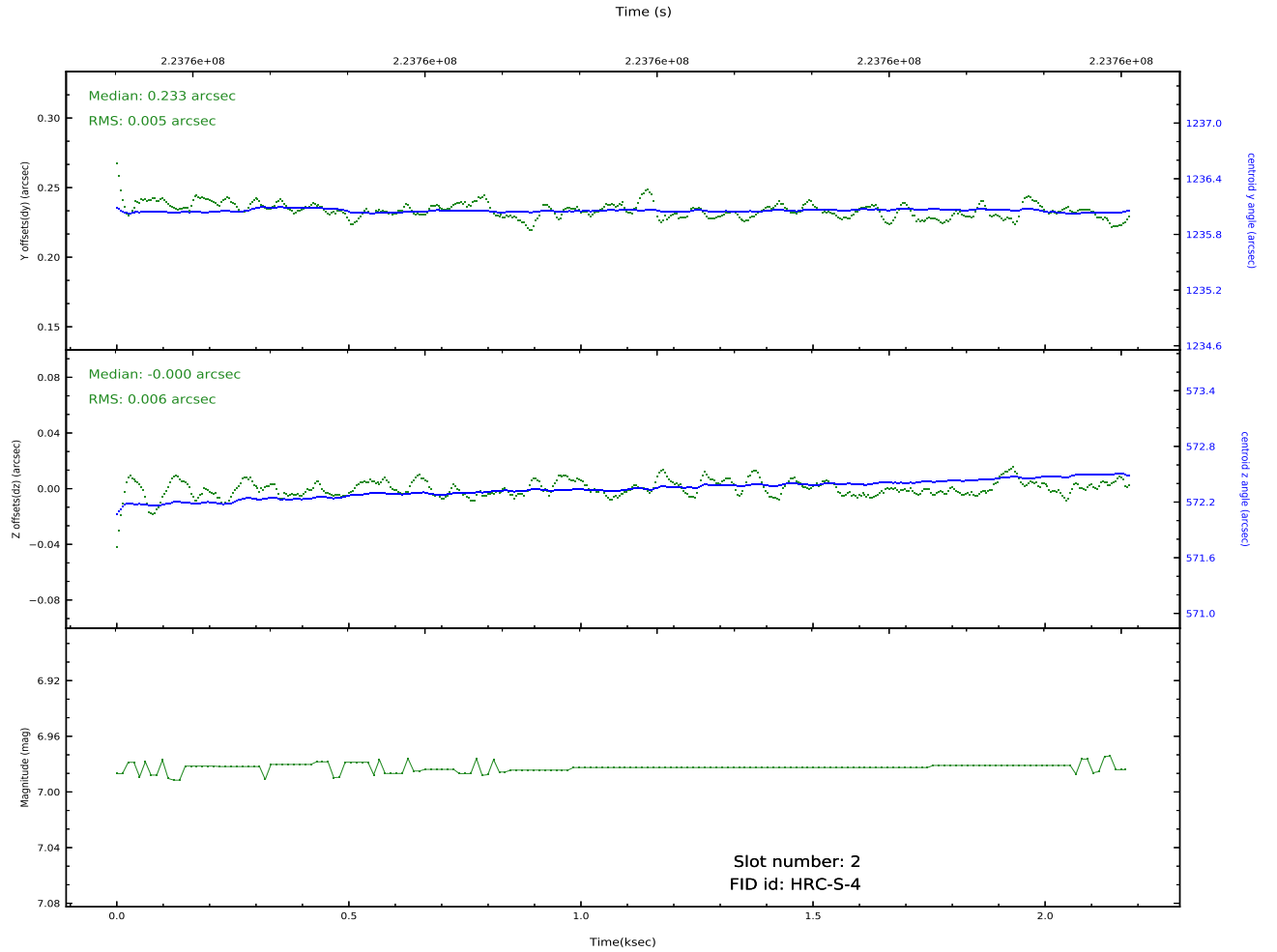
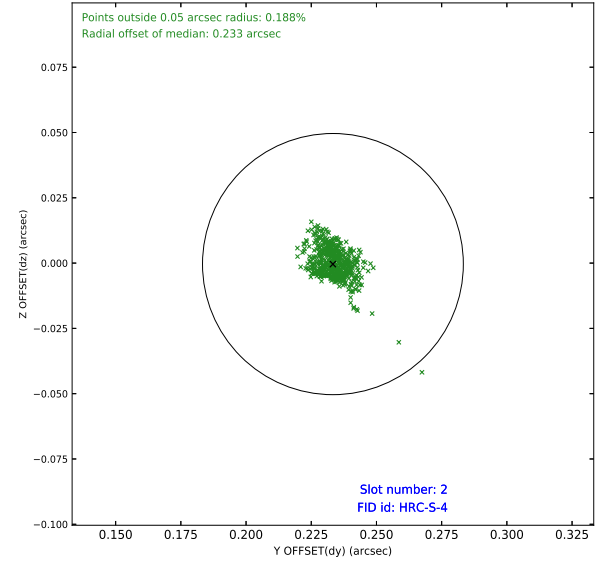
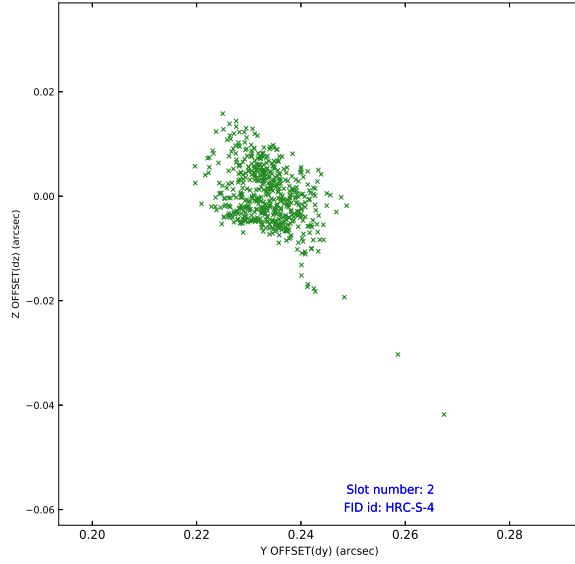
### 2.5.1 Slot 0



## 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)	2020.10.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.152756

### A.2 Comments

Window constraint met.