

# V&V Reference Report

## L2 ASCDS Version : 10.9.1

Observation 6095 - L2 Version 6  
Chandra X-Ray Center

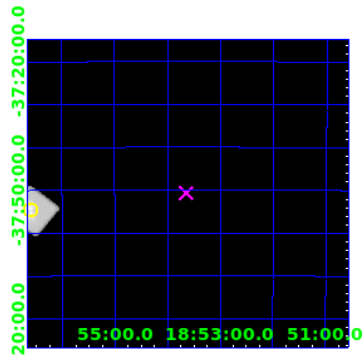
L2 Processing Date : Oct 11 2020

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# 1 Front

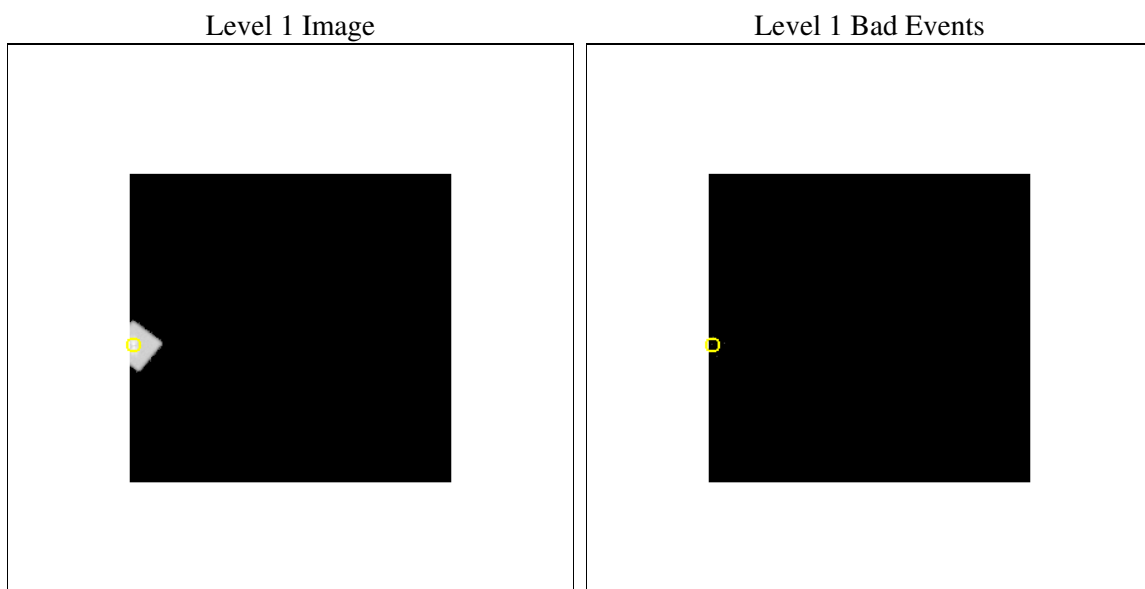
seq_num	990006	Sequence number
obs_id	6095	Observation id
title	AO6 Calibration Observations of the ACIS charged particle background	&#160
observer	Dr. CXC Calibration	Principal investigator
object	RXJ1856.5-3754	Source name
ra_targ	284.147083	Observer's specified target RA [deg]
dec_targ	-37.909611	Observer's specified target Dec [deg]
ra_nom	283.40599318653	Nominal RA [deg]
dec_nom	-37.845044666117	Nominal Dec [deg]
roll_nom	263.22080199675	Nominal Roll [deg]
revision	6	Processing version of data
ontime	47920.67408976	[s]
livetime	46782.474419161	Ontime multiplied by DTCOR
l2events	126086	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	48000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	47953.60221386	[s]
caldsver	4.9.2	&#160	l1events	168138	Number of level 1 events
date	2020-10-11T14:24:43	Date and time of file creation			
revision	6	Processing version of data			

### 2.1.3 Events

#### Level 1 Events

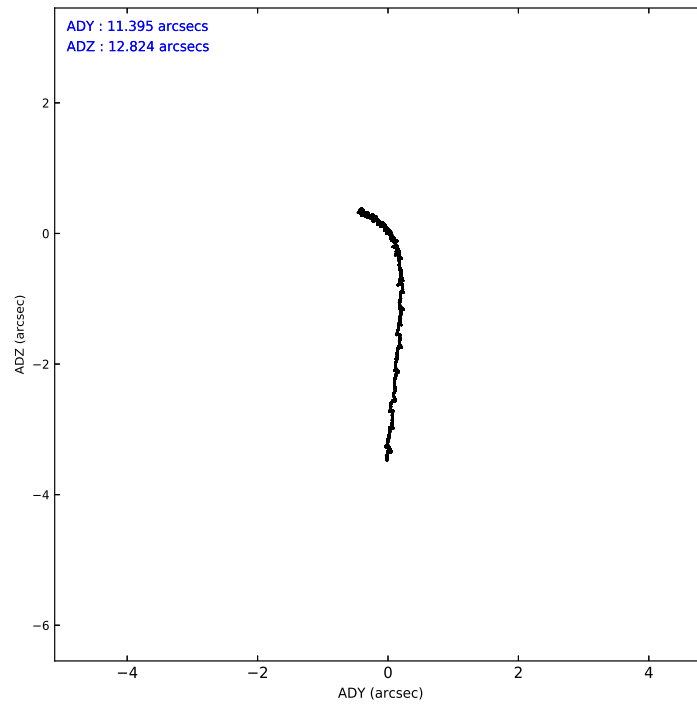
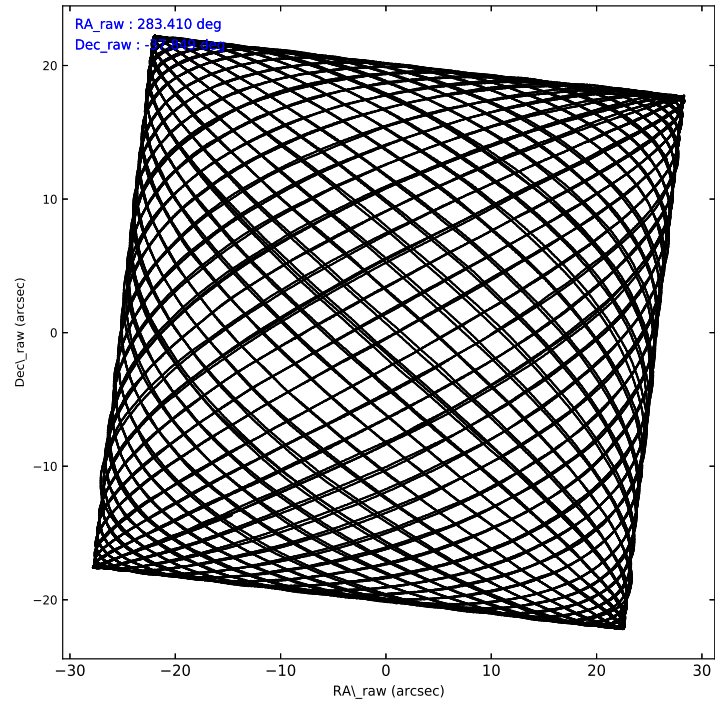
	<b>segment 0</b>
level 1 events	168138
rejected events	112
rejected %	0%

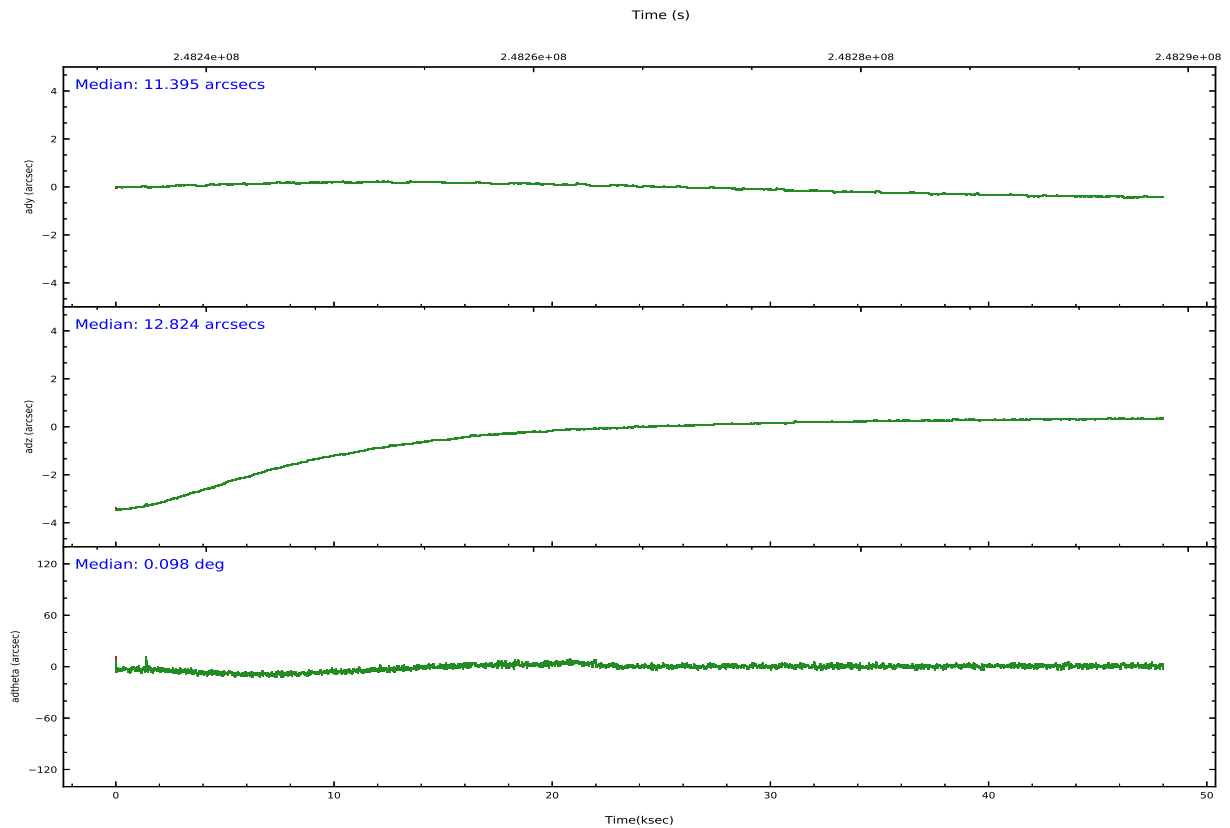
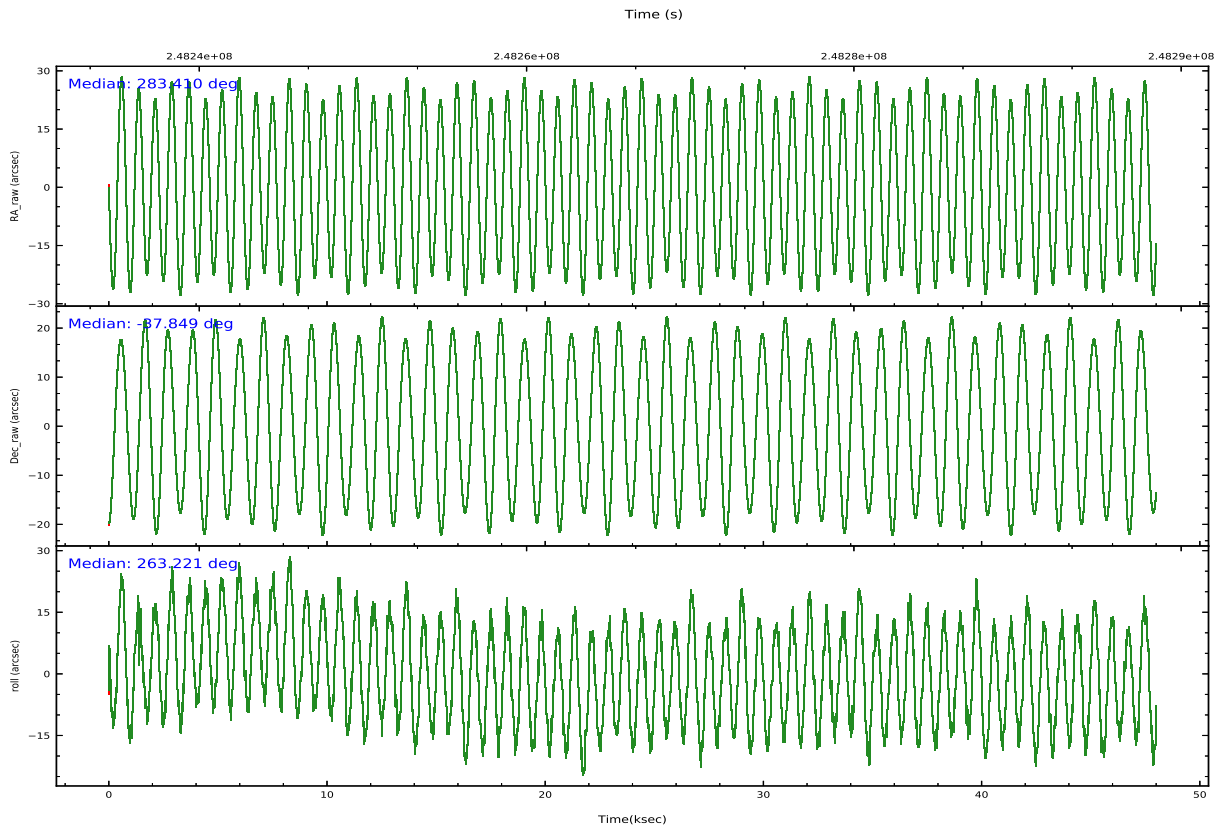
## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	HRC	HRC
Detector	HRC-I	HRC-I
Grating	NONE	NONE
Data mode	NEXT_IN_LINE	NEXT_IN_LINE
Observation mode	POINTING	POINTING
[deg] Pointing RA	283.4099797235825	283.40599318653
[deg] Pointing Dec	-37.84871834108044	-37.845044666117
[deg] Pointing Roll	263.3258554512857	263.22080199675
[s] Window start time (MET)	247190464.184000	247190464.184000
[s] Window stop time (MET)	249696064.184000	249696064.184000
[mm] SIM focus pos	-1.038866356238299	-1.038866356238299
[mm] SIM defocus	0.00142623211714632	0.00142623211714632
[mm] SIM translation stage pos	51.9960404362608	51.9960404362608
[mm] SIM translation stage offset	74.989453869027	74.989453869027
[s] Observation start time (MET)	248240852.184	248240852.184
Observation start date	2005-11-13T03:46:28	2005-11-13T03:47:32
[s] Observation end time (MET)	248288854.785552	248288854.785552
Observation end date	2005-11-13T17:06:28	2005-11-13T17:07:34

Parameter	Planned	Actual
Obspar format version number	8	8
Obspar file type	PREDICTED	ACTUAL
Obspar update status	OVERRIDE	OVERRIDE

## 2.3 Aspect





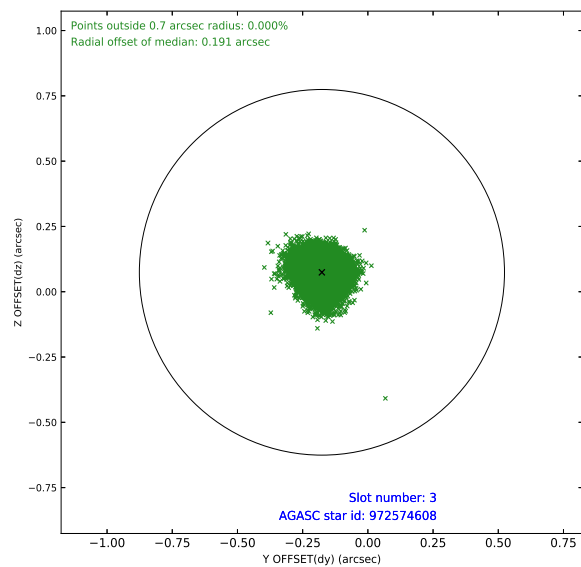
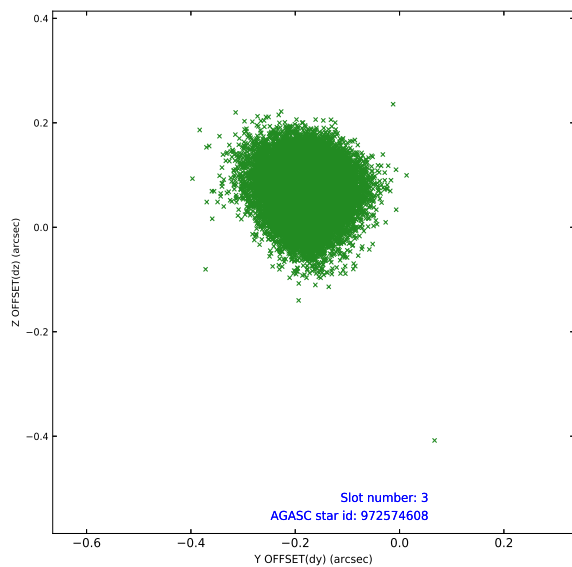
### Slot Statistics

slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		HRC-I-1	6.90	11706	1.000	-0.639	-0.028	0.009	0.015	0.000000	0.000000	-765.74	237
1	FID		HRC-I-2	7.03	11703	1.000	0.718	-0.026	0.009	0.015	0.000000	0.000000	845.11	238
2	UNUSED			0.00	0	0.000	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0
3	GUIDE	used	972574608	7.83	23403	1.000	-0.176	0.074	0.066	0.110	283.352847	-37.274388	-1951.47	-348
4	GUIDE	used	1037567312	8.46	23411	1.000	-0.005	-0.152	0.073	0.119	283.456056	-37.976515	525.64	233
5	GUIDE	used	1037567328	8.85	23320	1.000	-0.067	0.015	0.081	0.132	284.052016	-37.647288	-840.42	1786
6	GUIDE	used	1037587688	9.31	23373	1.000	0.183	-0.068	0.122	0.232	282.777537	-38.312745	1954.31	-1531
7	GUIDE	used	1037576824	8.72	23405	1.000	0.072	0.131	0.082	0.131	284.177029	-38.323536	1542.37	2399

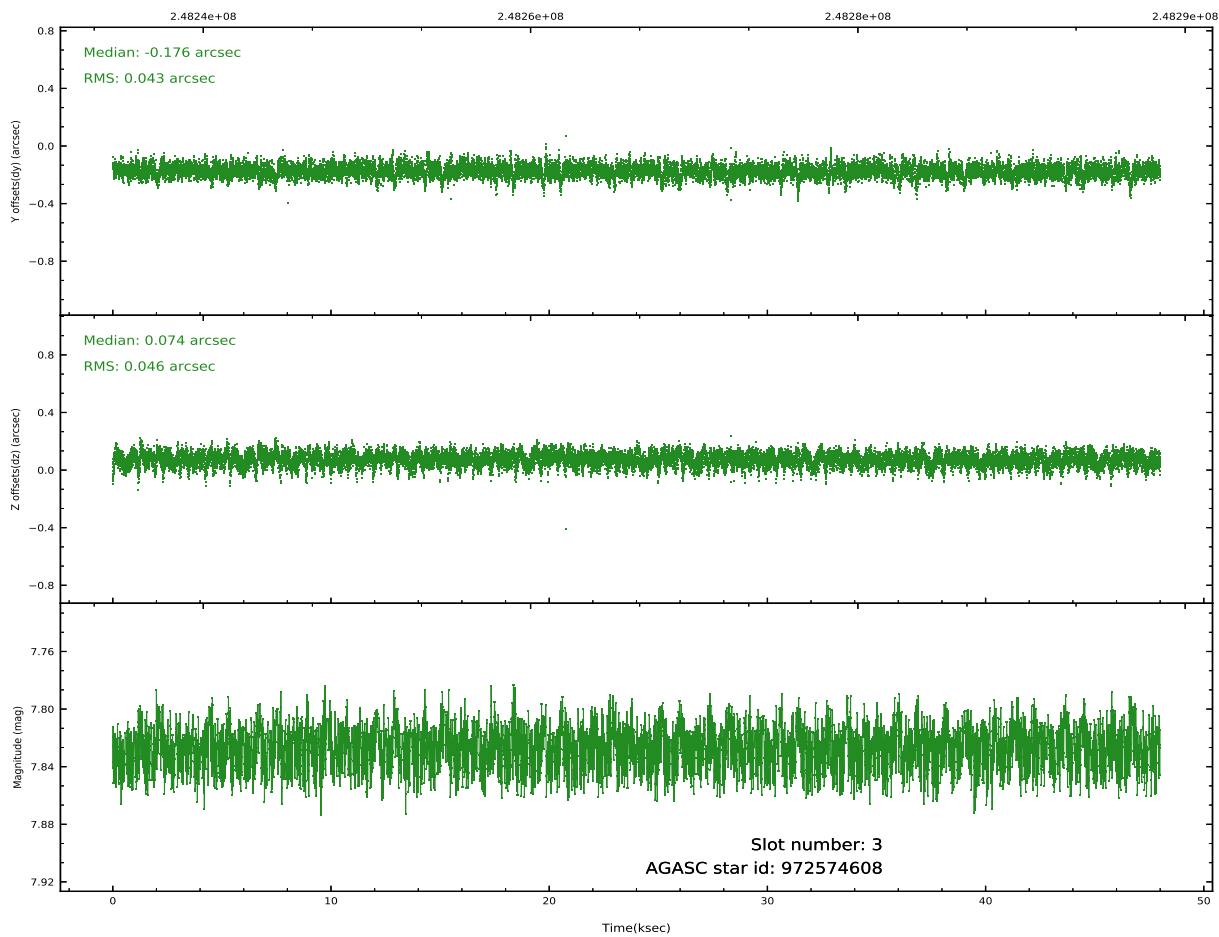
∞

## 2.4 Star Slots

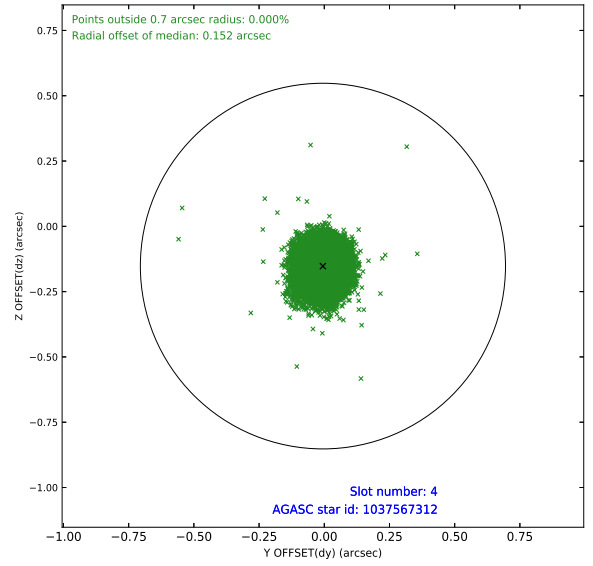
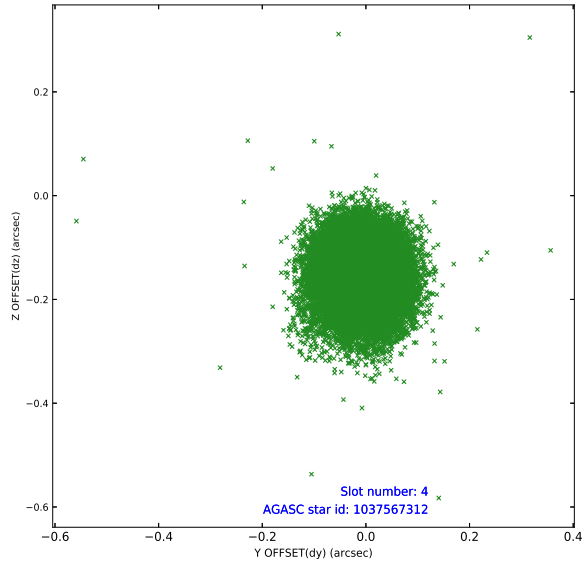
### 2.4.1 Slot 3



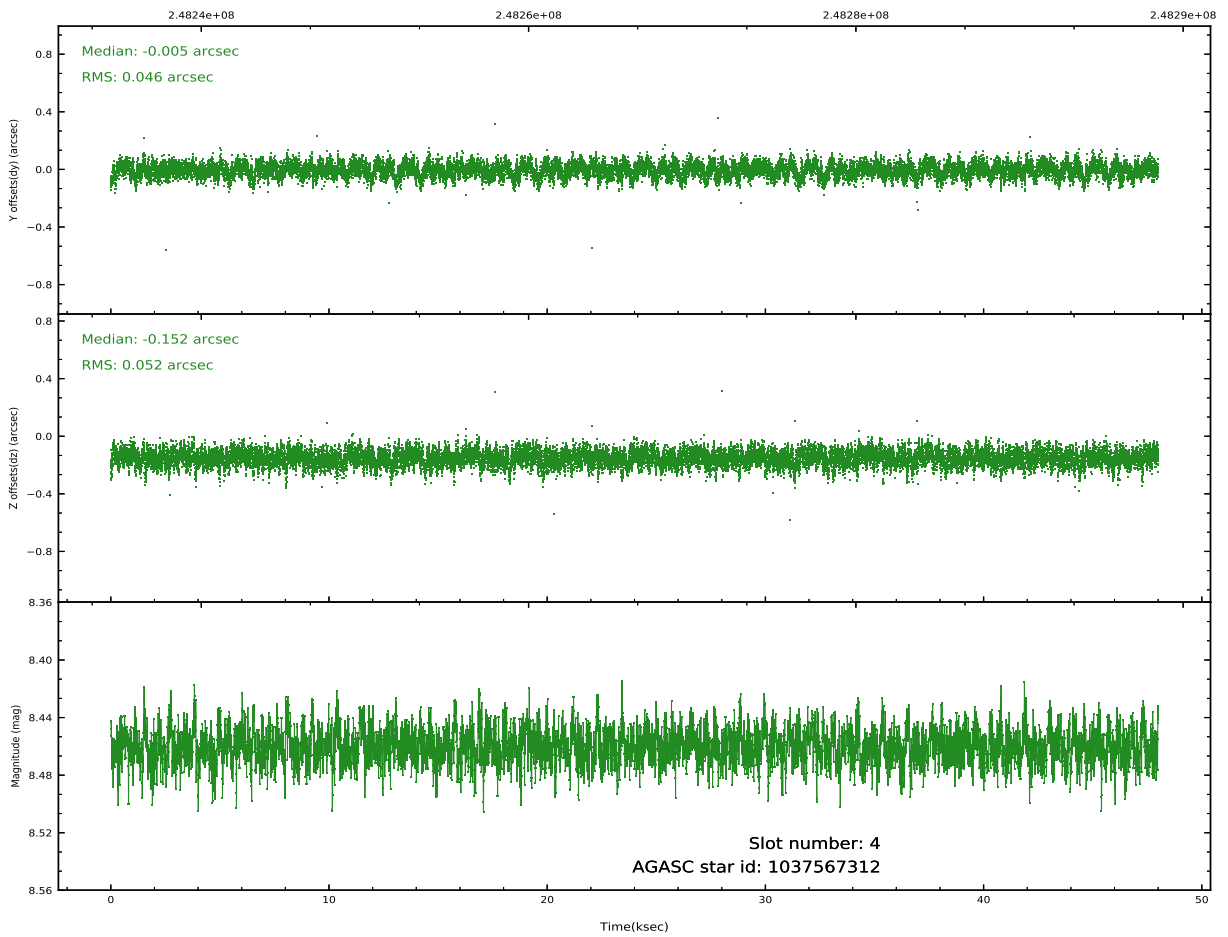
Time (s)



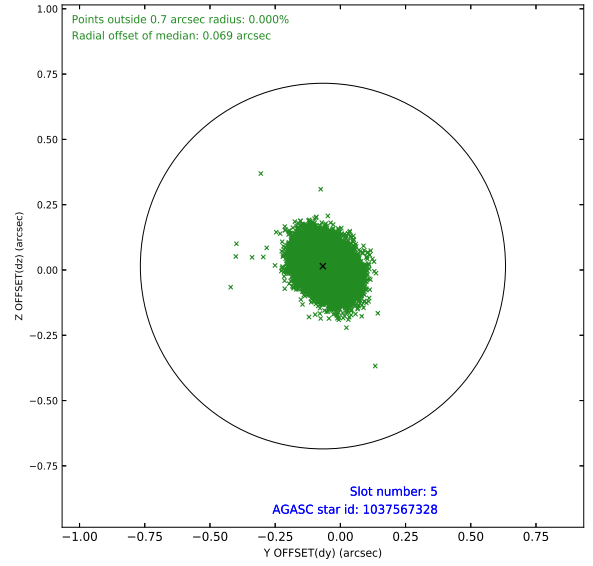
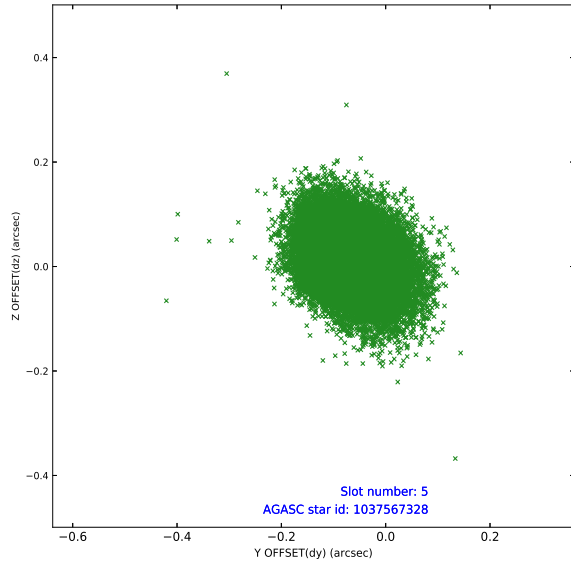
## 2.4.2 Slot 4



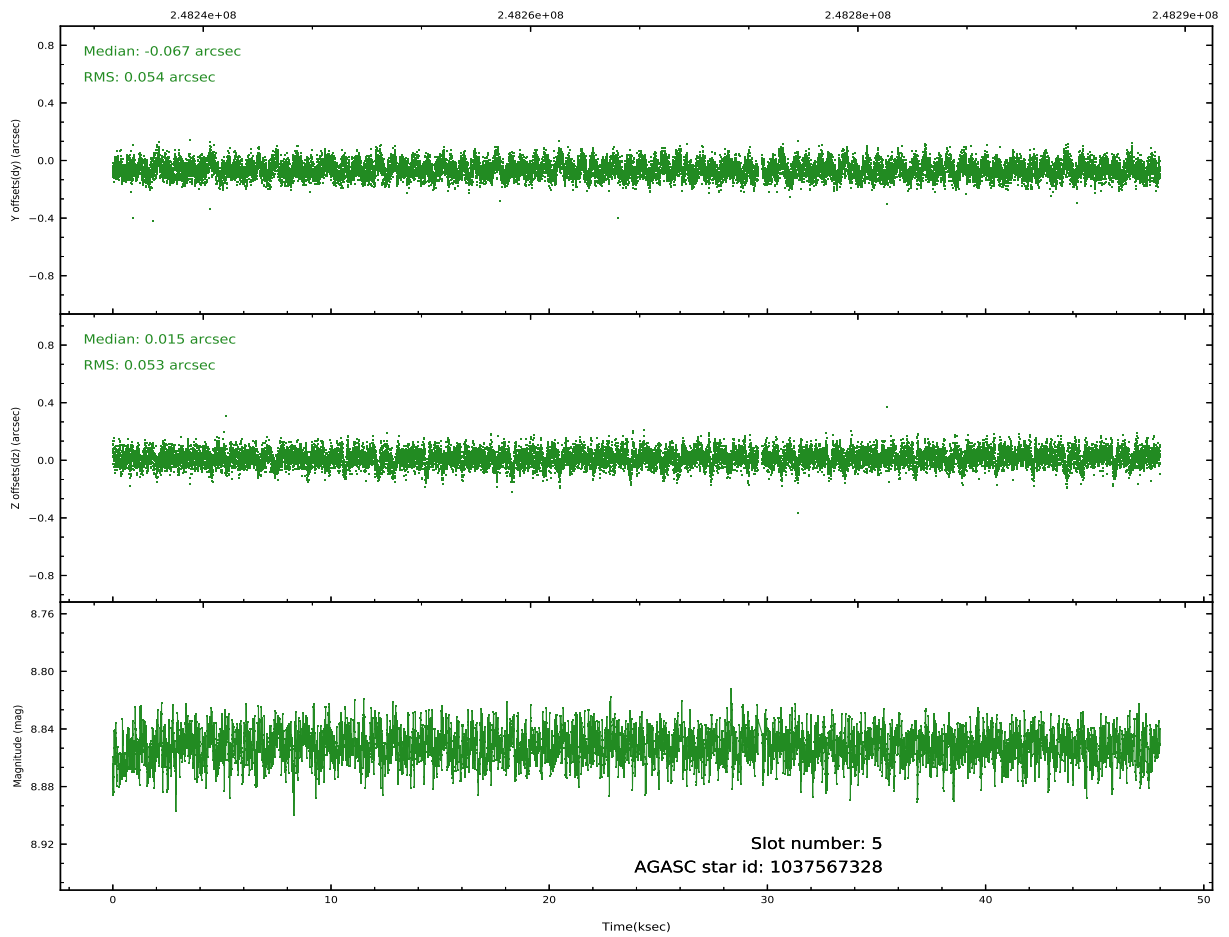
Time (s)



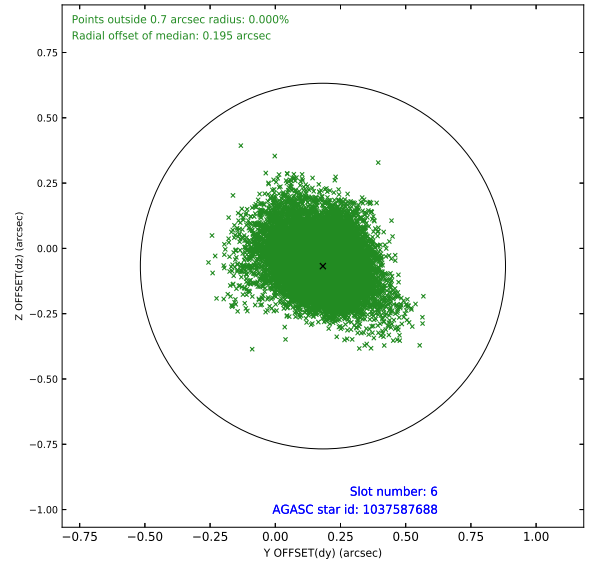
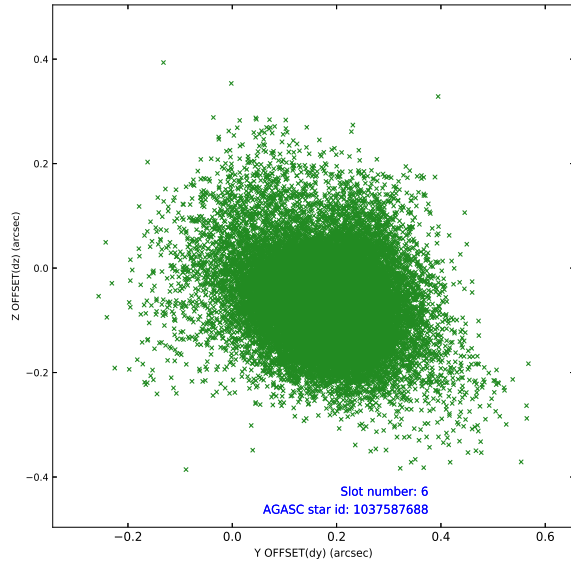
### 2.4.3 Slot 5



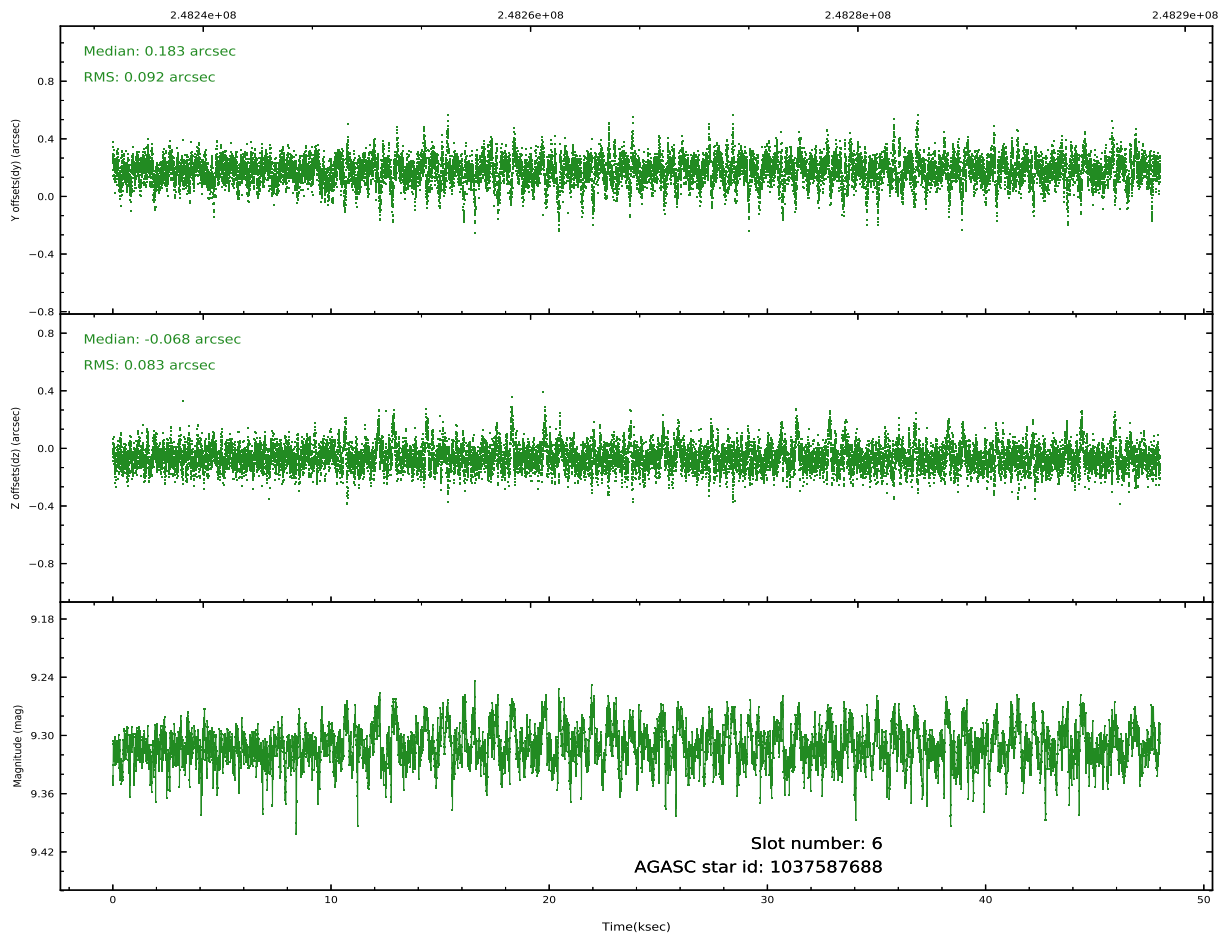
Time (s)



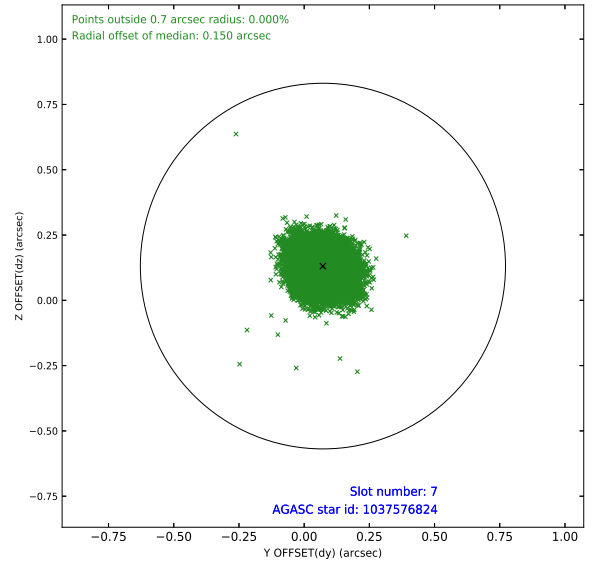
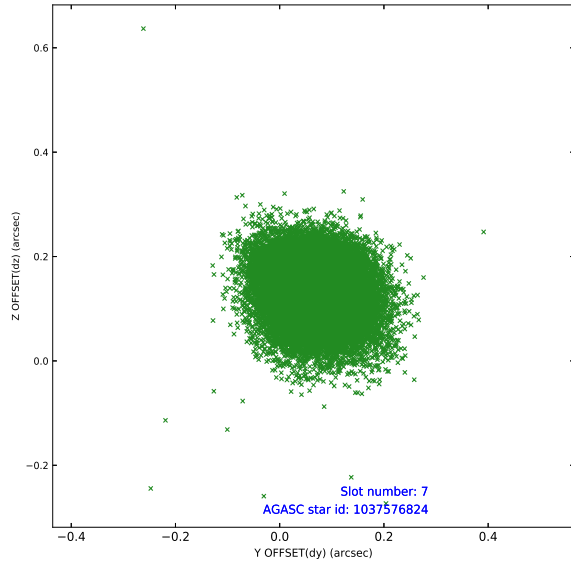
## 2.4.4 Slot 6



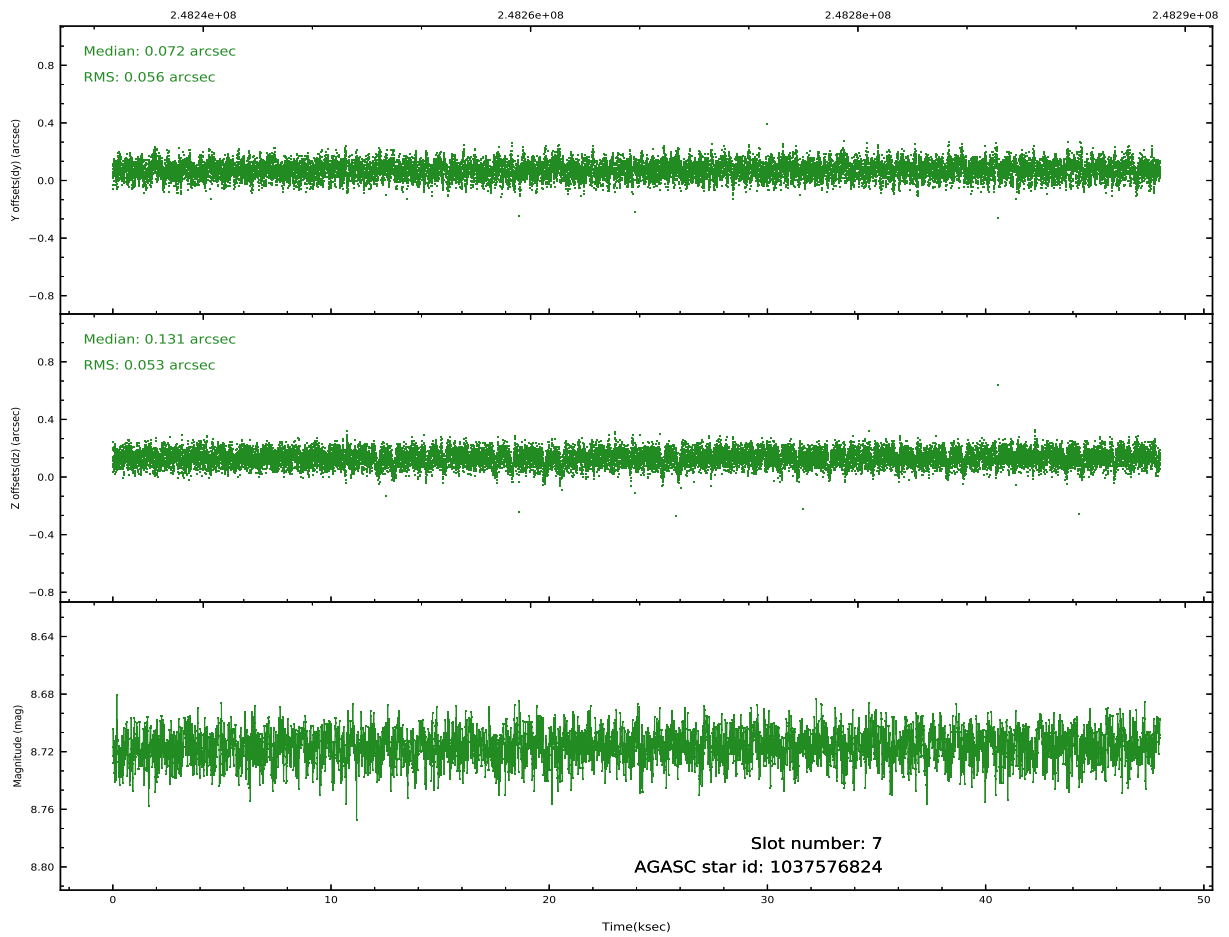
Time (s)



## 2.4.5 Slot 7

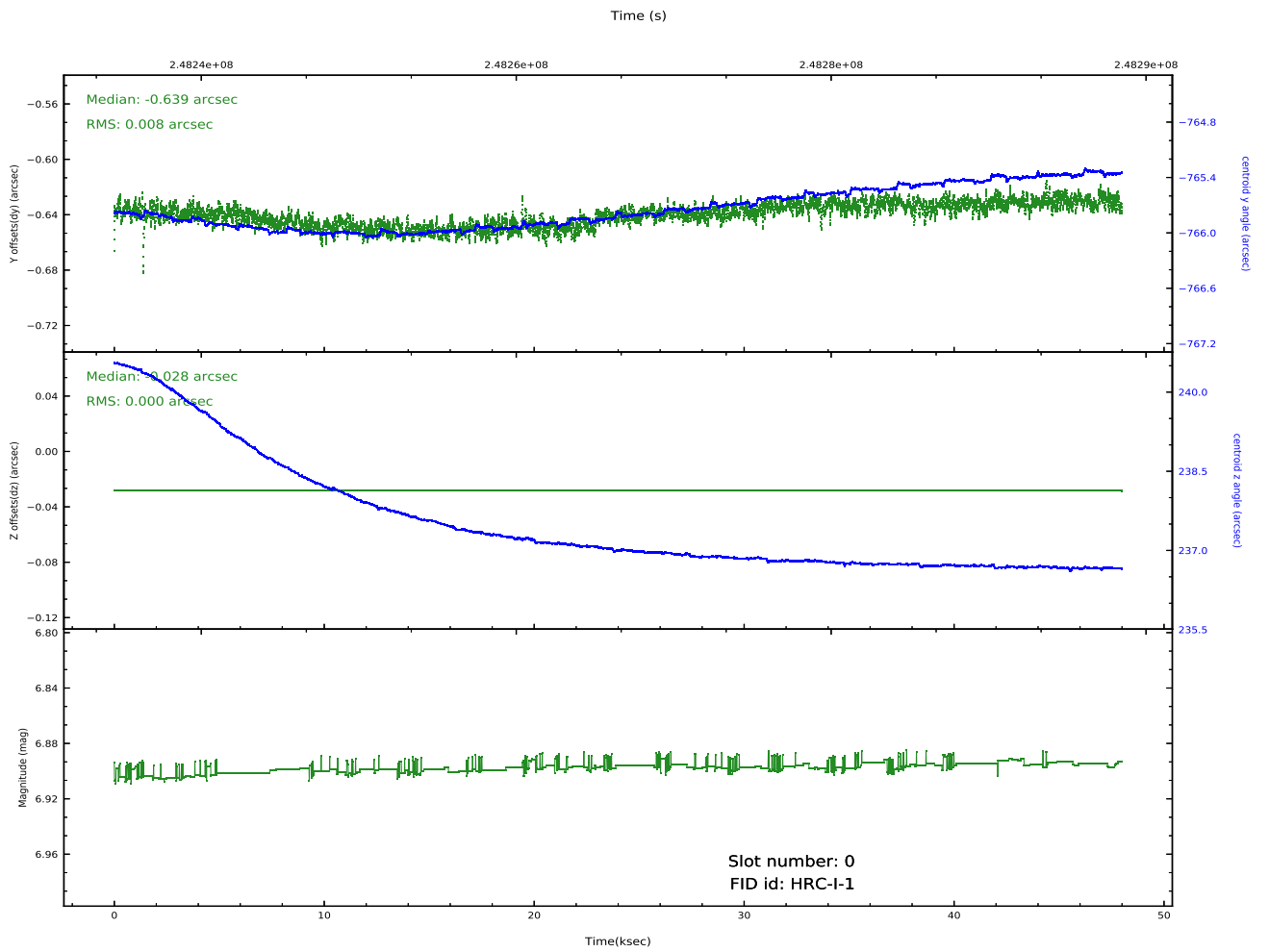
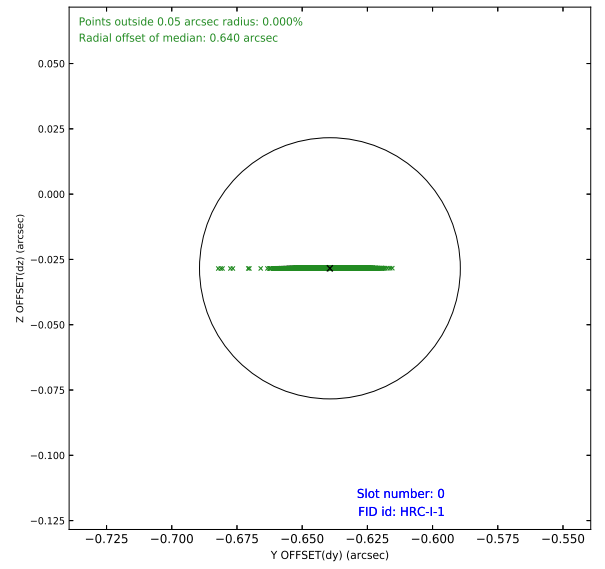
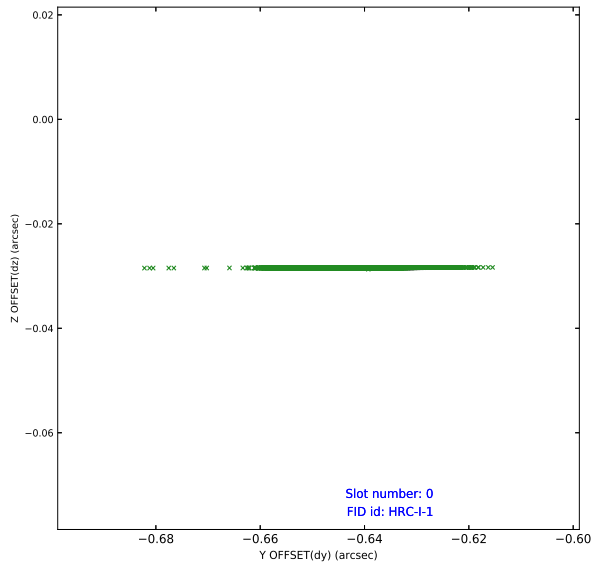


Time (s)

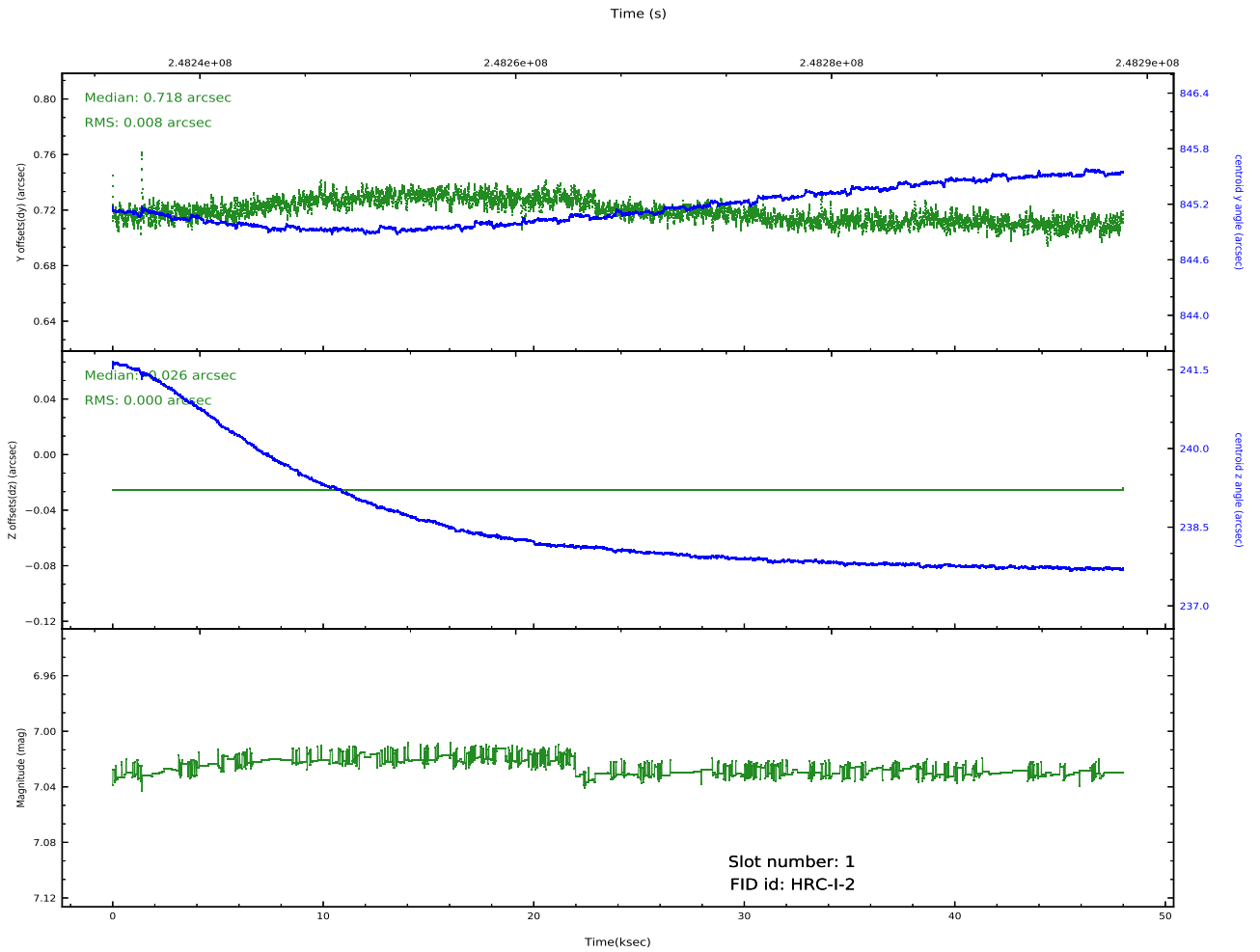
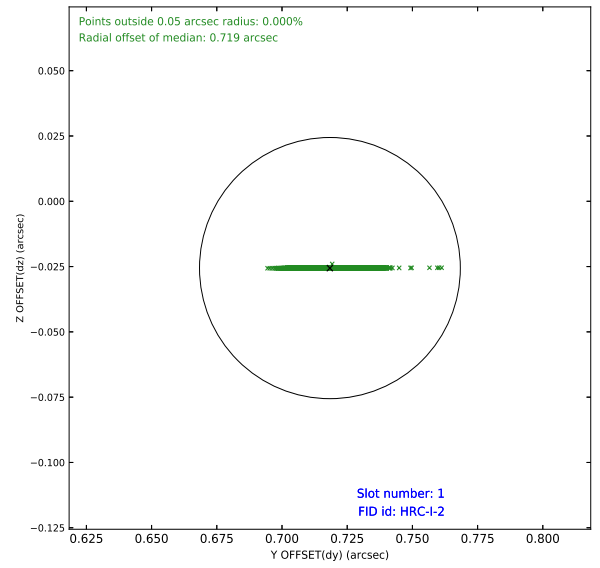
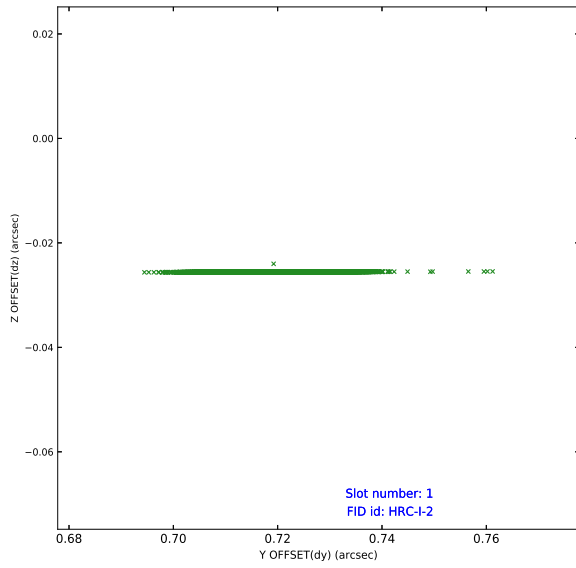


## 2.5 FID Slots

### 2.5.1 Slot 0



## 2.5.2 Slot 1



# A Summary

## A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2020.10.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	47.91977

## A.2 Comments

Slot 2 was not used in this observation. This observation was performed with a large SIM offset, per PI request. As a result, the fid light positions are offset beyond normally expected ranges, but the fid light position correction has compensated for this offset.

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Window constraint met.

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Because of telemetry saturation the report event times may not be correct and as a result the sky coordinates may be wrong.