

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20680 - L2 Version 2
Chandra X-Ray Center

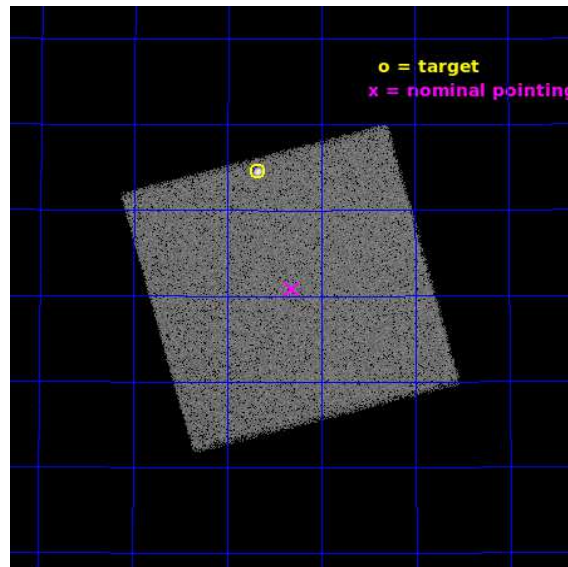
L2 Processing Date : Oct 27 2020

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1 Front

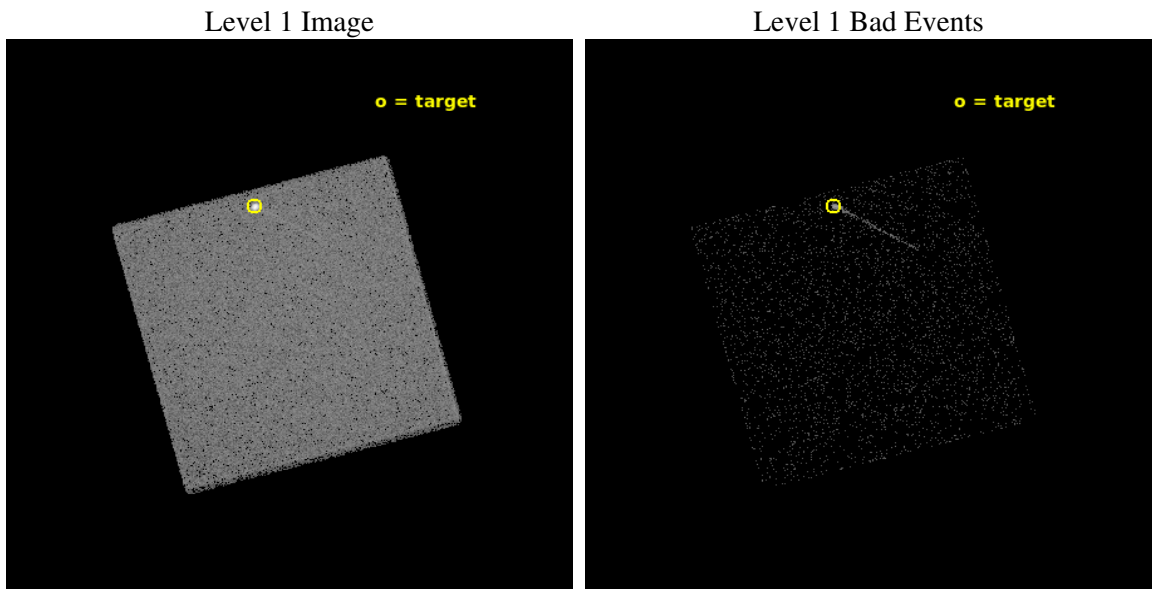
seq_num	291391	Sequence number
obs_id	20680	Observation id
title	AO-19 Calibration Observations to Monitor the Spatial Variations in the HRC-I Gain	Proposal title
observer	CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.07817448109	Nominal RA [deg]
dec_nom	45.514496490266	Nominal Dec [deg]
roll_nom	209.8715180556	Nominal Roll [deg]
revision	2	Processing version of data
ontime	1167.7313195467	[s]
livetime	1151.3585528545	Ontime multiplied by DTCOR
l2events	142872	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	1000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	1167.7313195467	[s]
caldsver	4.9.3	 	l1events	241726	Number of level 1 events
date	2020-10-27T19:45:16	Date and time of file creation			
revision	2	Processing version of data			

2.1.3 Events

Level 1 Events

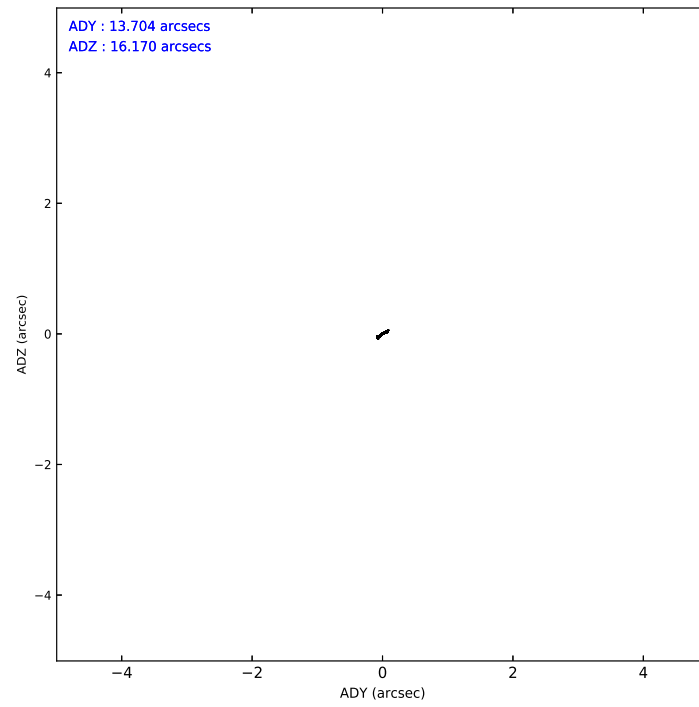
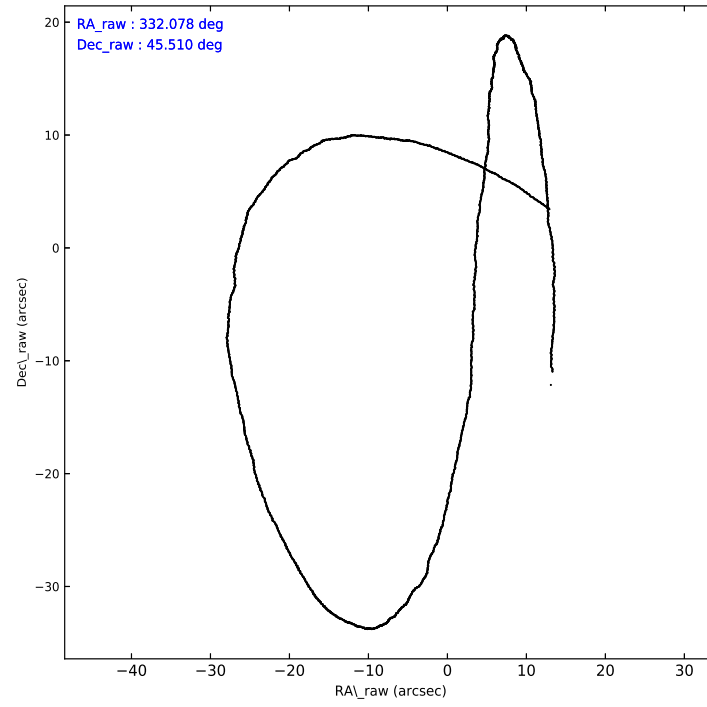
	segment 0
level 1 events	241726
rejected events	54159
rejected %	22%

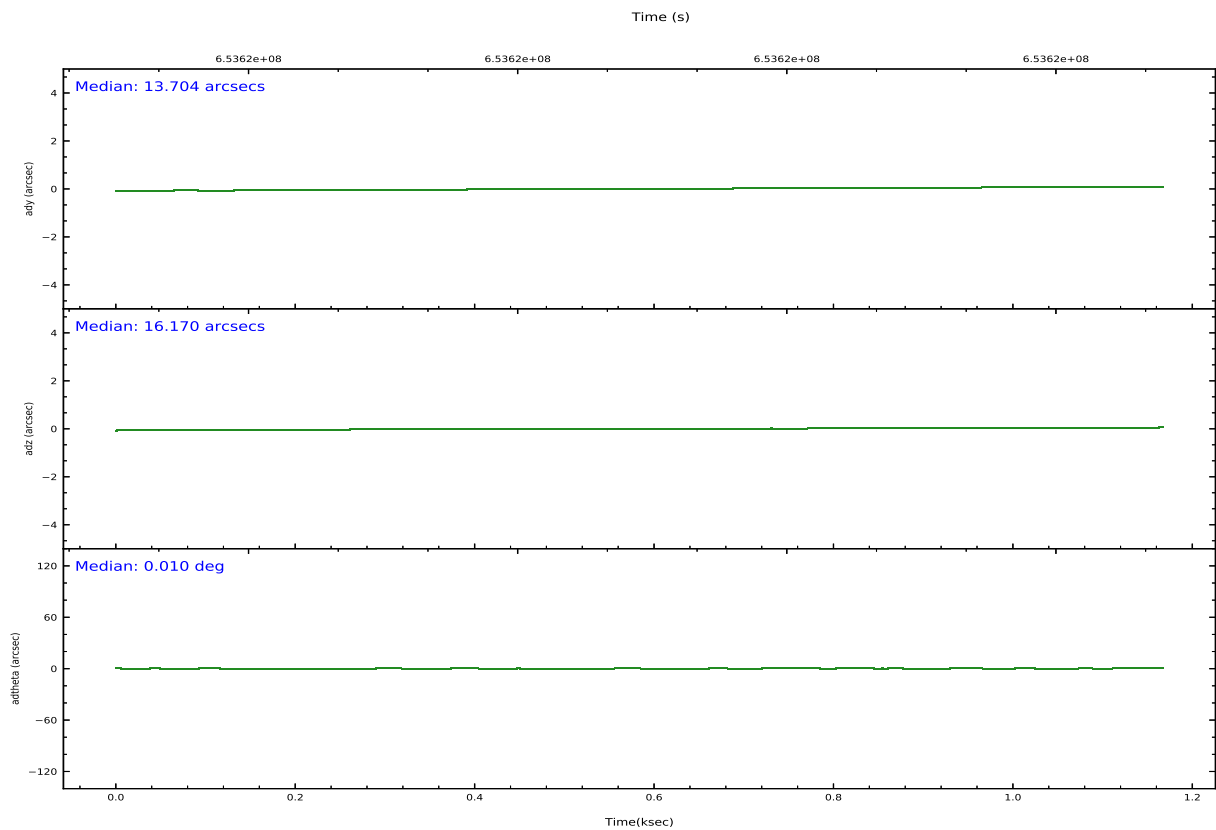
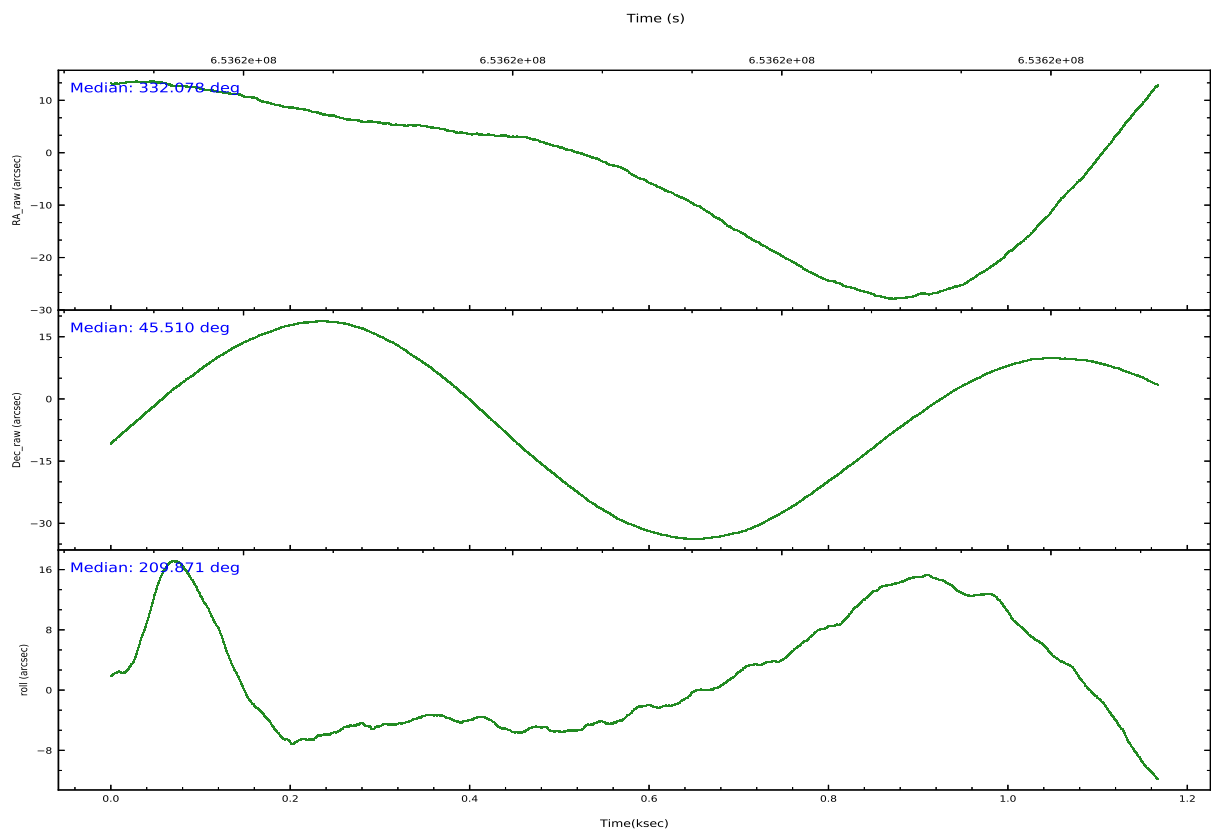
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	HRC	HRC
Detector	HRC-I	HRC-I
Grating	NONE	NONE
Data mode	OBSERVING	OBSERVING
Observation mode	POINTING	POINTING
[deg] Pointing RA	332.095825	332.07817448109
[deg] Pointing Dec	45.531349	45.514496490266
[deg] Pointing Roll	209.965932	209.8715180556
[mm] SIM focus pos	-1.040293	-1.038866356238299
[mm] SIM defocus	0	0.001426264420575141
[mm] SIM translation stage pos	126.985494	126.9829799899862
[mm] SIM translation stage offset	0	0.002508901615314585
[s] Observation start time (MET)	653617320.184000	653616944.09224
Observation start date	2018-09-18T00:20:51	2018-09-18T00:15:44
[s] Observation end time (MET)	653618320.184000	653618454.42983
Observation end date	2018-09-18T00:37:31	2018-09-18T00:40:54

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

2.3 Aspect



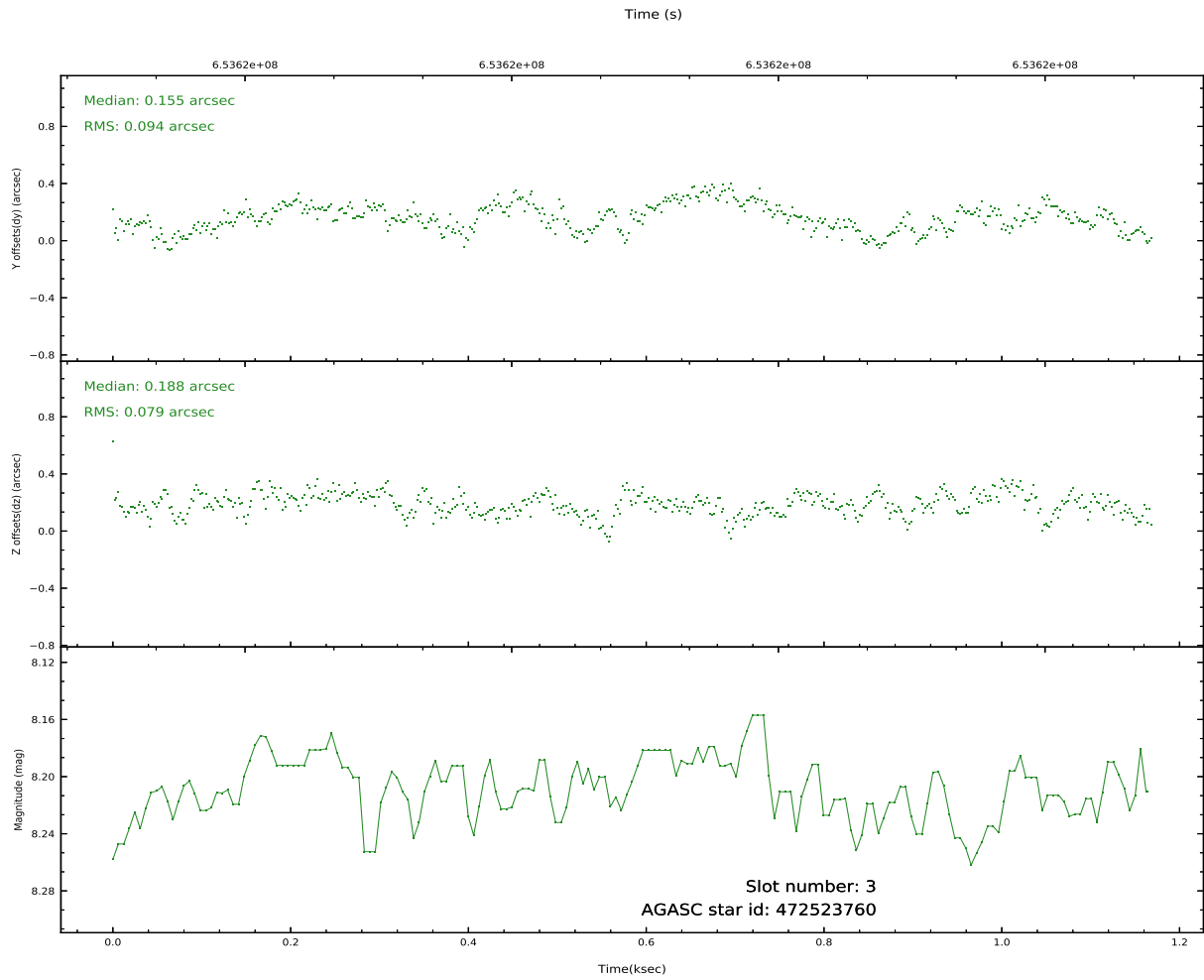
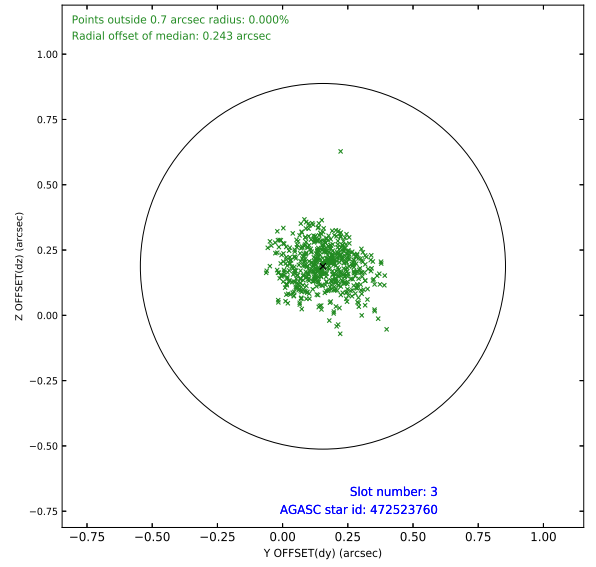
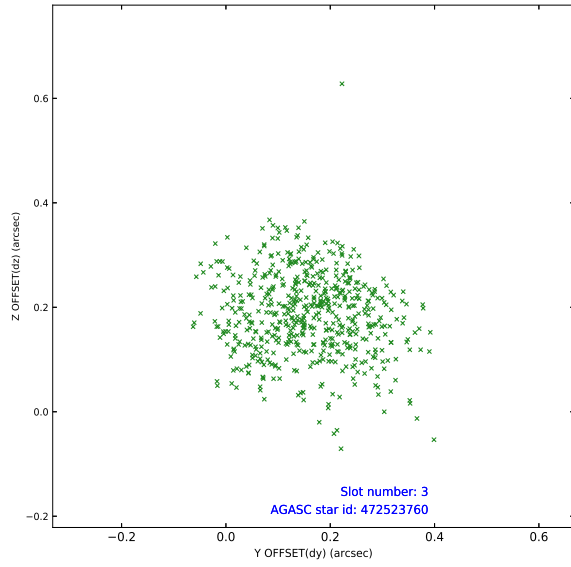


Slot Statistics

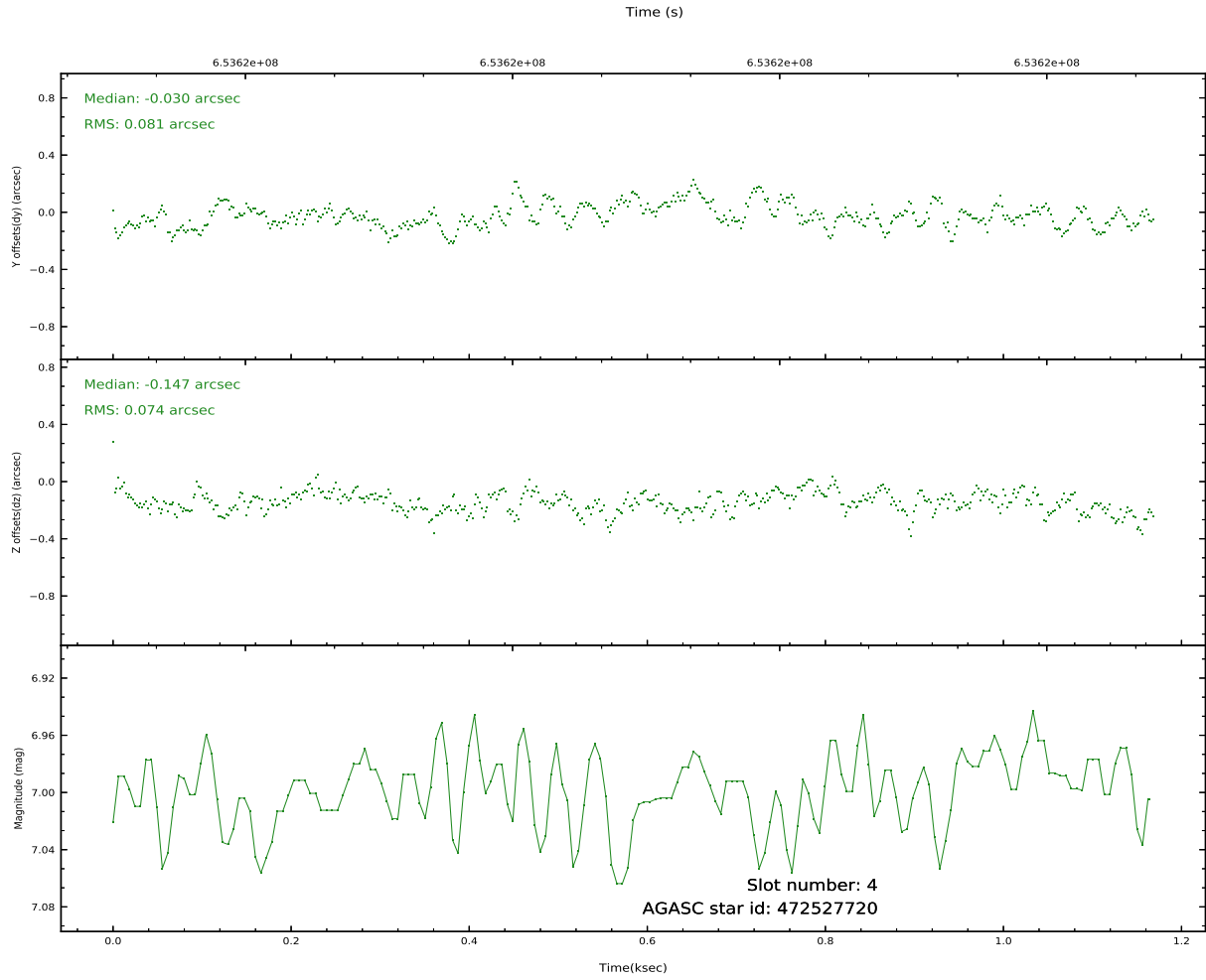
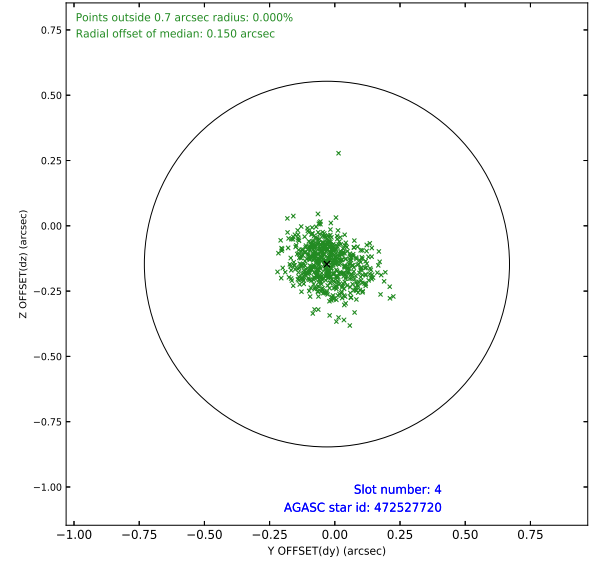
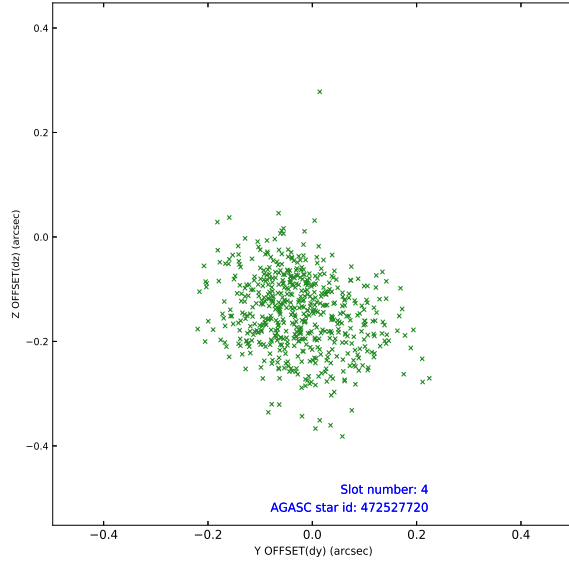
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		HRC-I-1	7.03	285	1.000	-0.080	0.036	0.007	0.012	0.000000	0.000000	-769.58	-1304
1	FID		HRC-I-2	7.04	285	1.000	0.342	-0.251	0.006	0.011	0.000000	0.000000	840.77	-1310
2	FID		HRC-I-3	7.10	285	1.000	-0.143	0.124	0.007	0.011	0.000000	0.000000	-1195.13	995
3	GUIDE	used	472523760	8.21	571	1.000	0.155	0.188	0.132	0.209	331.645363	45.403260	1216.67	-167
4	GUIDE	used	472527720	7.00	571	1.000	-0.030	-0.147	0.113	0.183	331.460205	45.112509	2151.96	498
5	GUIDE	used	472651904	6.22	571	1.000	-0.005	0.043	0.126	0.224	332.170077	45.742257	-535.55	-561
6	GUIDE	used	472655152	9.36	570	1.000	0.088	0.082	0.263	0.397	332.504239	45.862991	-1484.36	-521
7	GUIDE	used	420754040	9.04	570	1.000	-0.193	-0.142	0.146	0.251	331.917939	44.882543	1555.60	1799

2.4 Star Slots

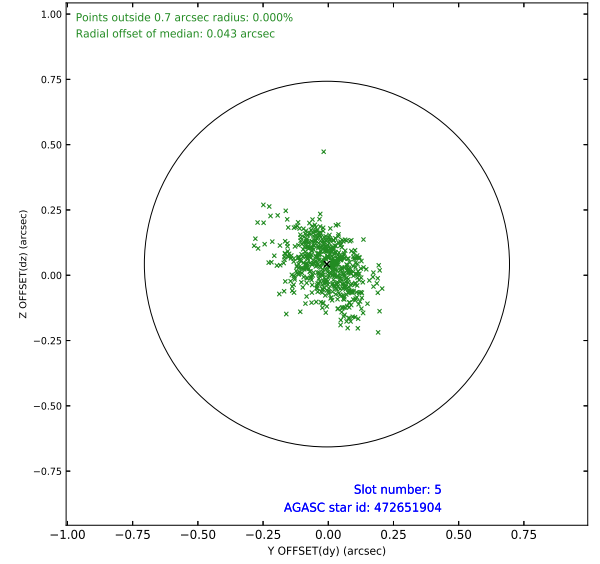
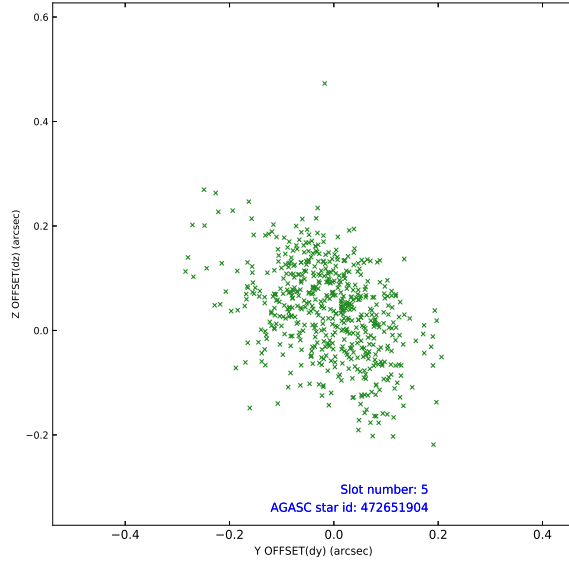
2.4.1 Slot 3



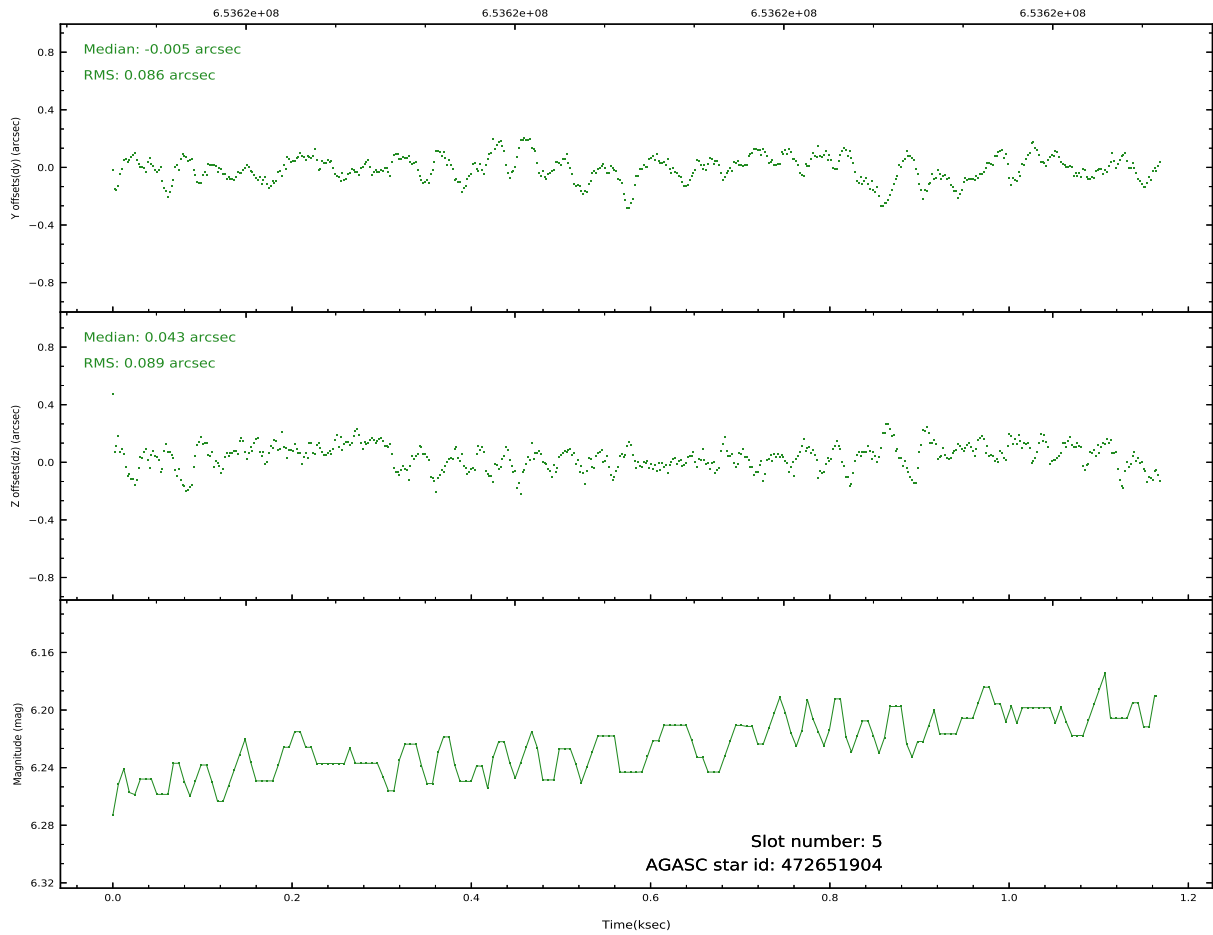
2.4.2 Slot 4



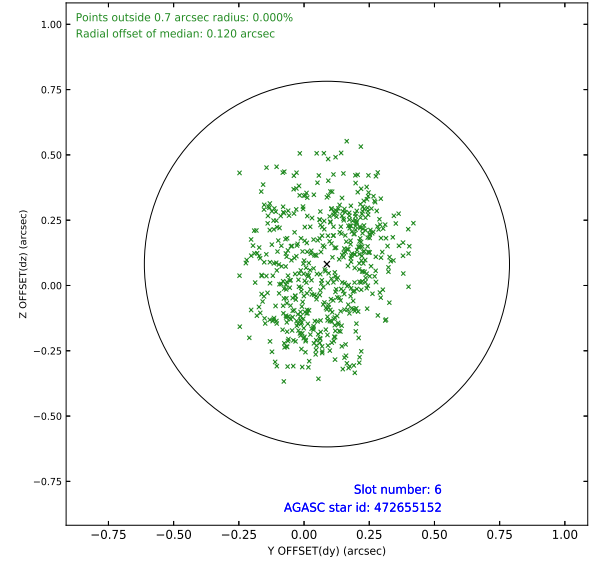
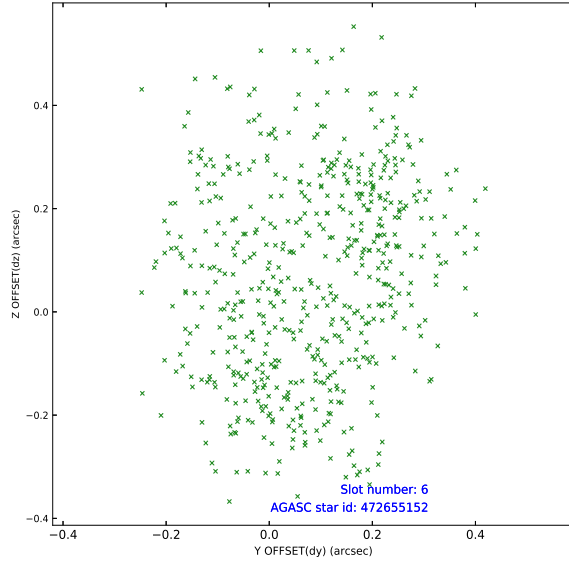
2.4.3 Slot 5



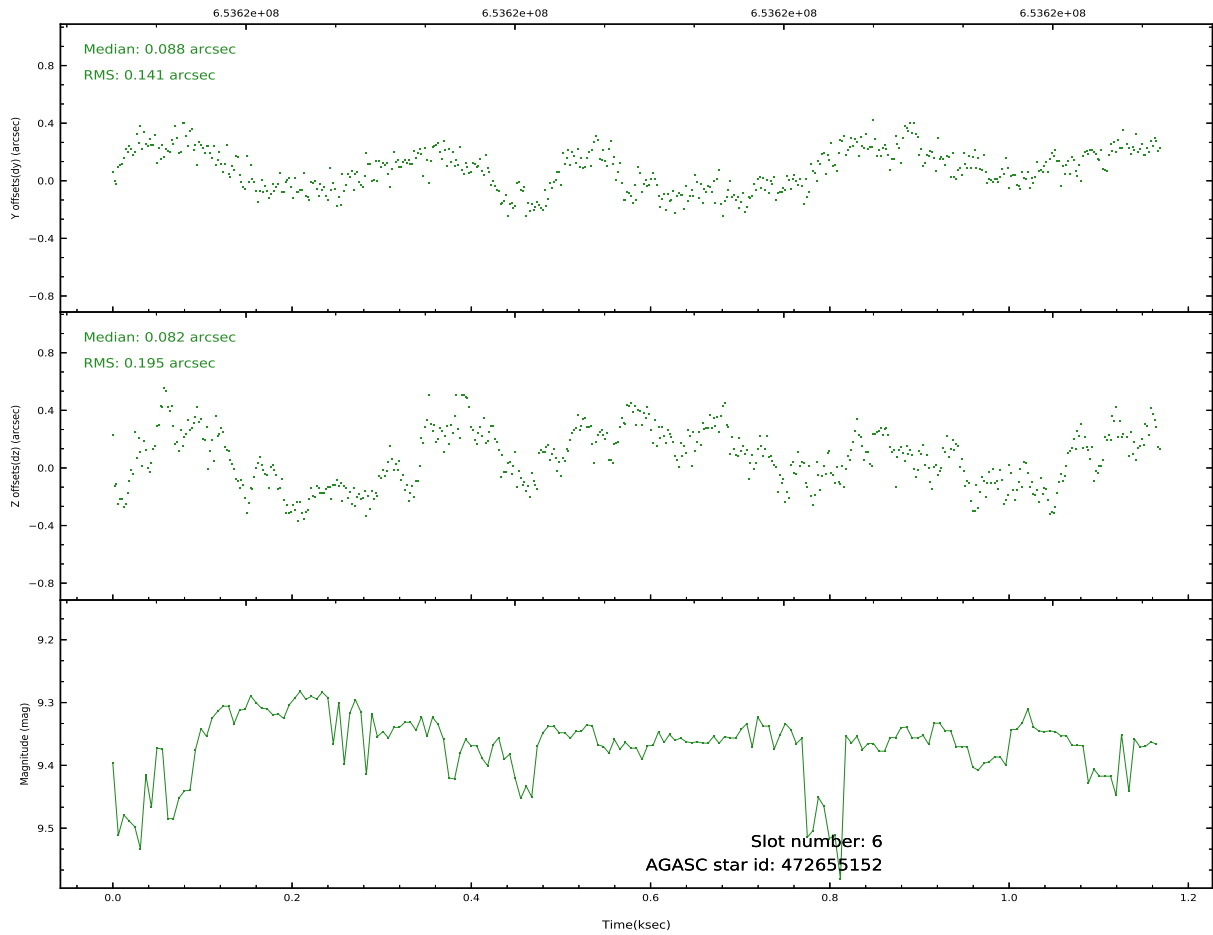
Time (s)



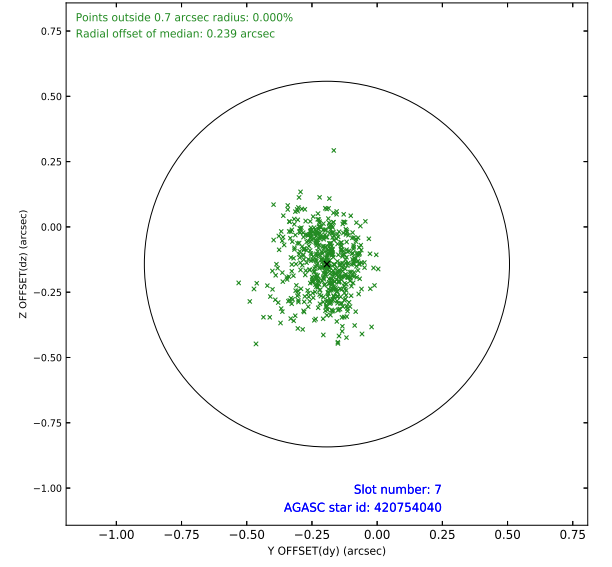
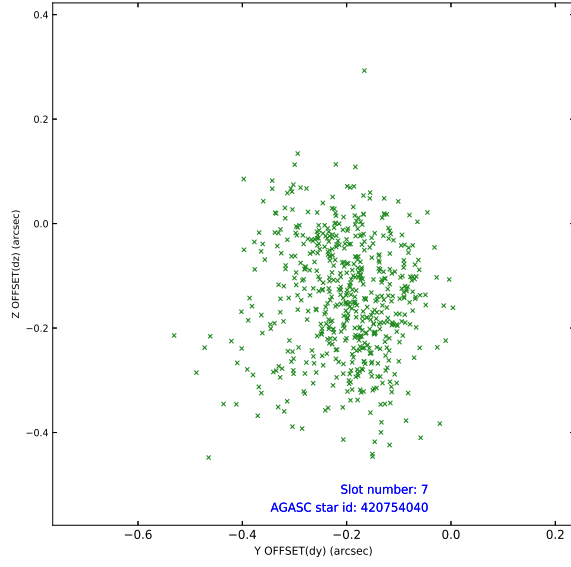
2.4.4 Slot 6



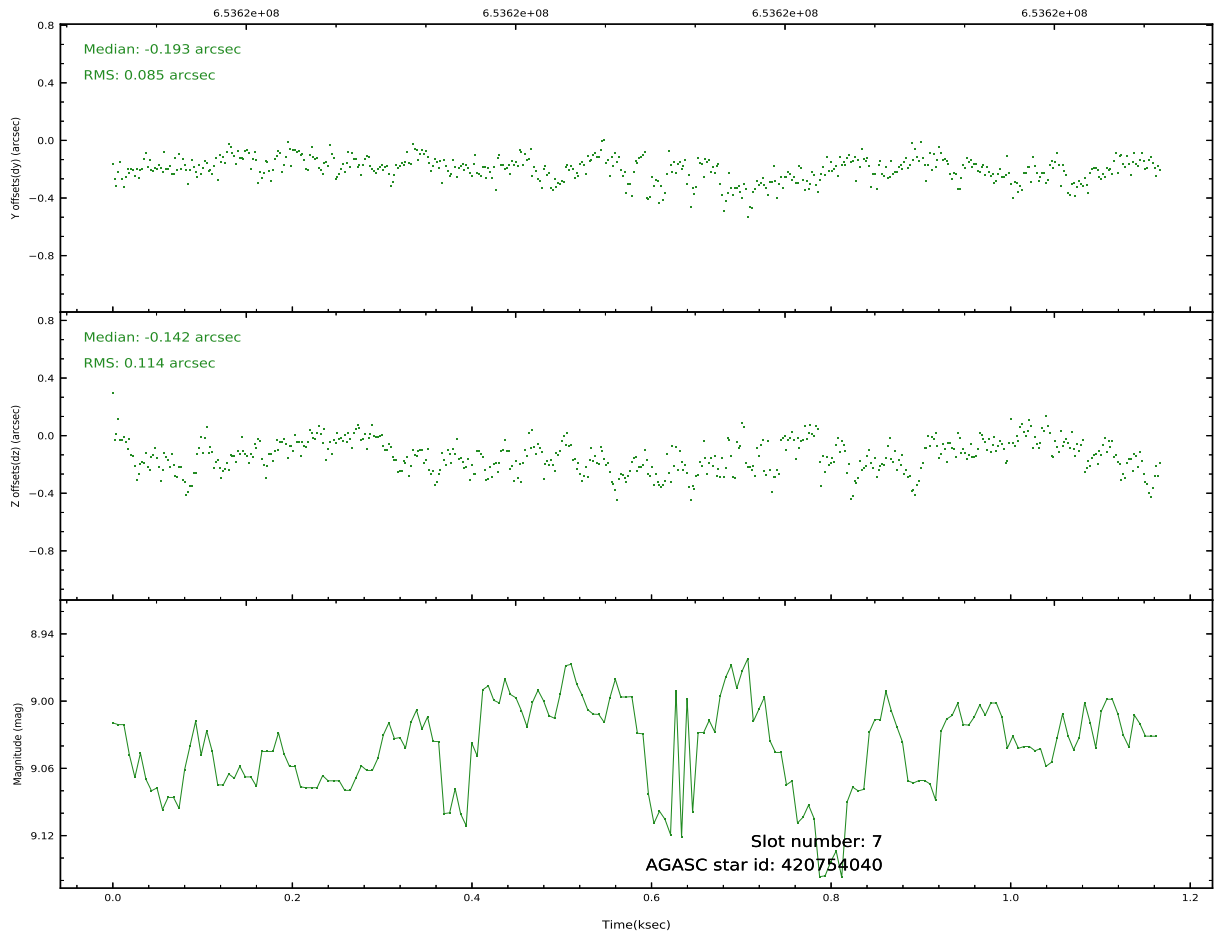
Time (s)



2.4.5 Slot 7

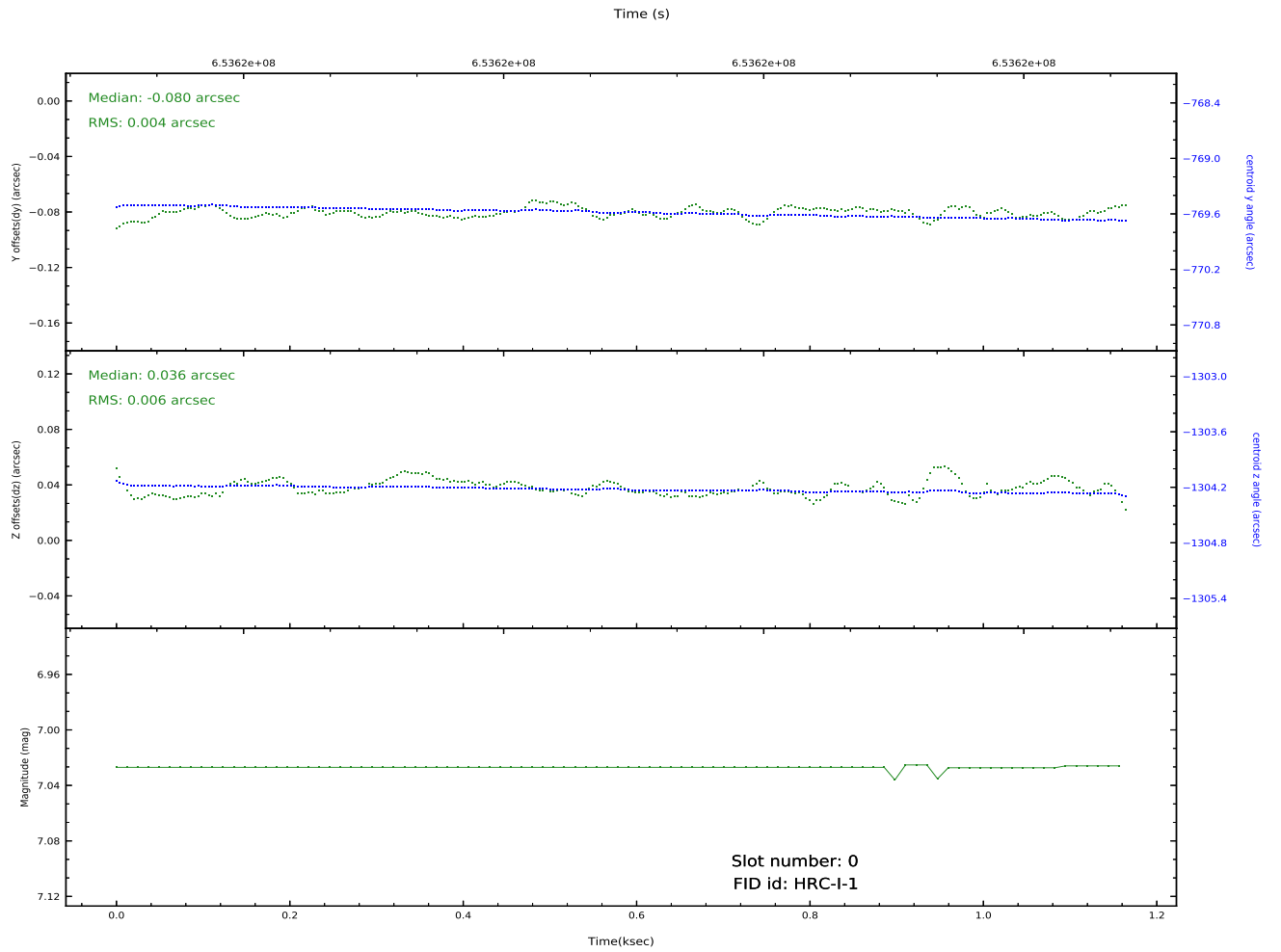
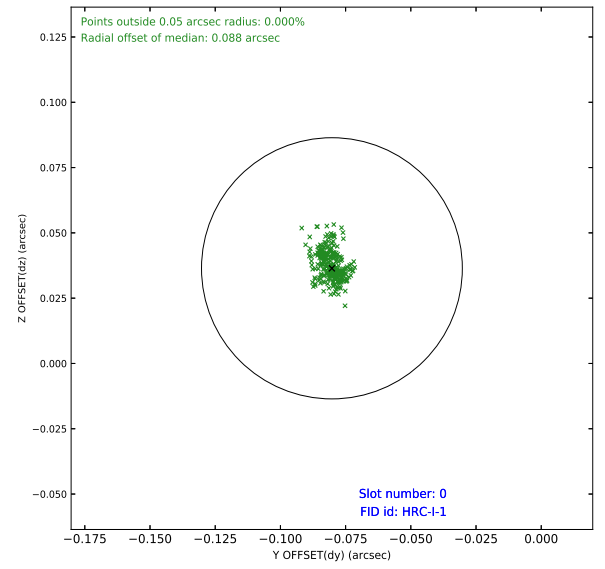
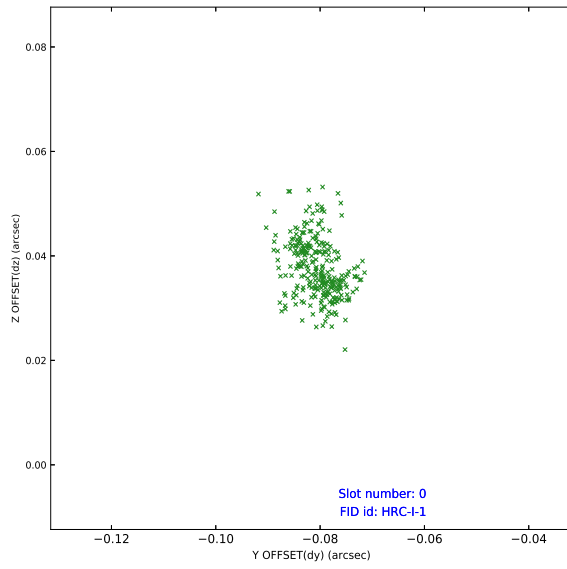


Time (s)

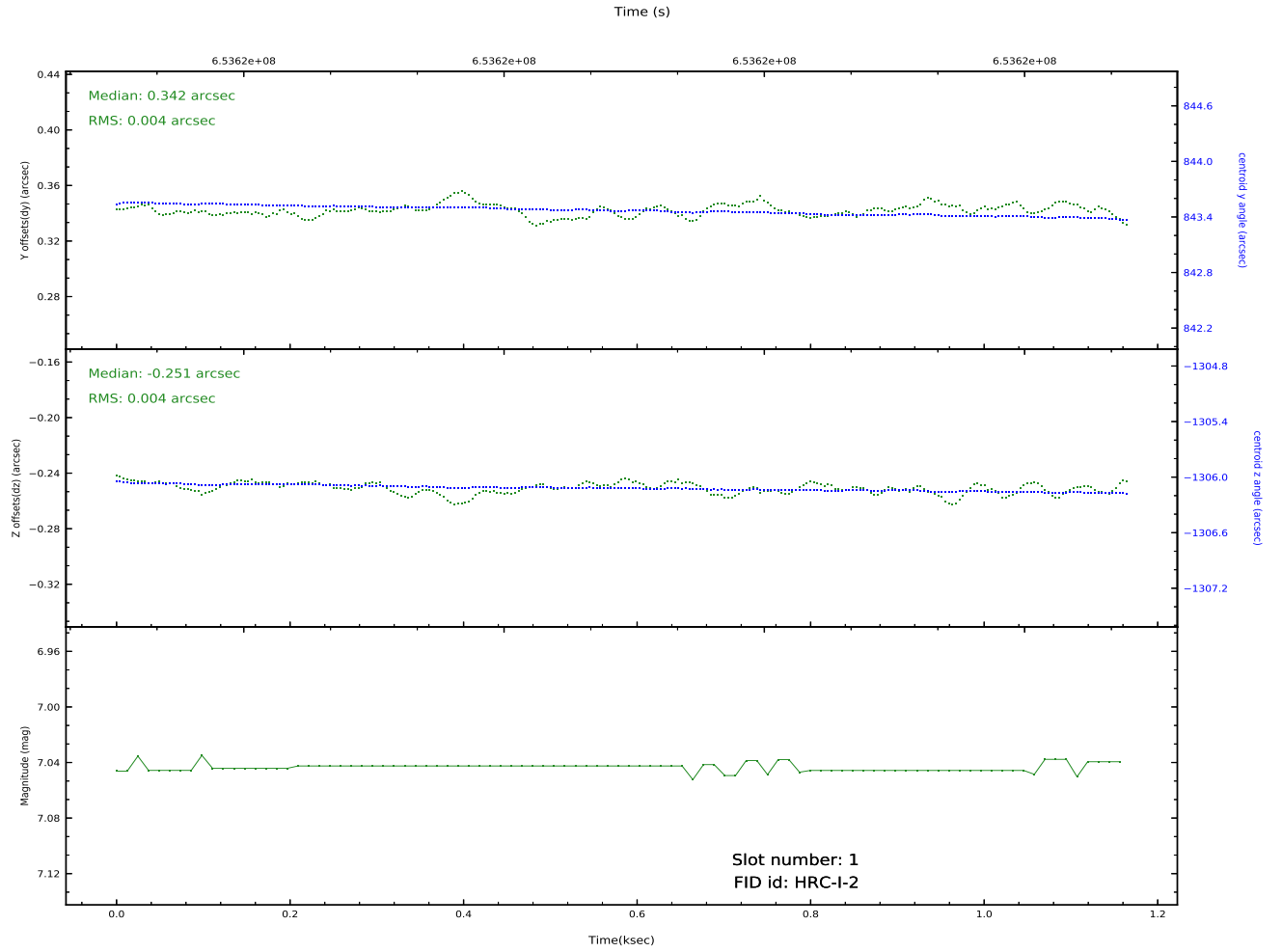
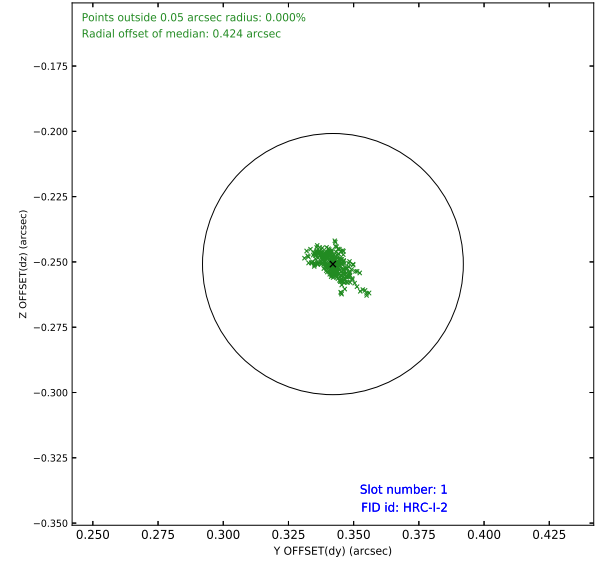
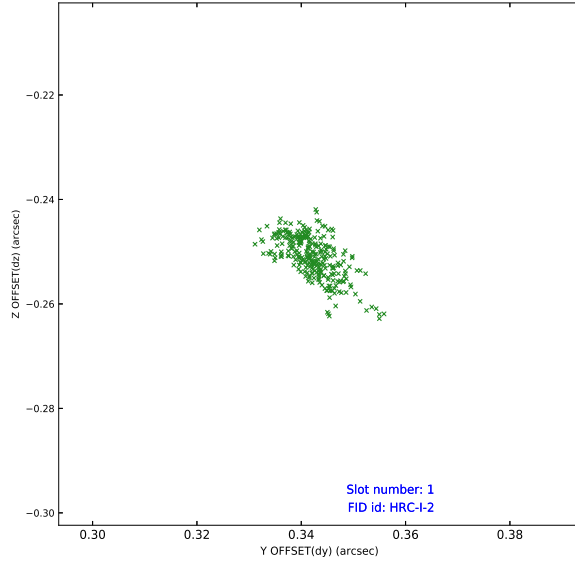


2.5 FID Slots

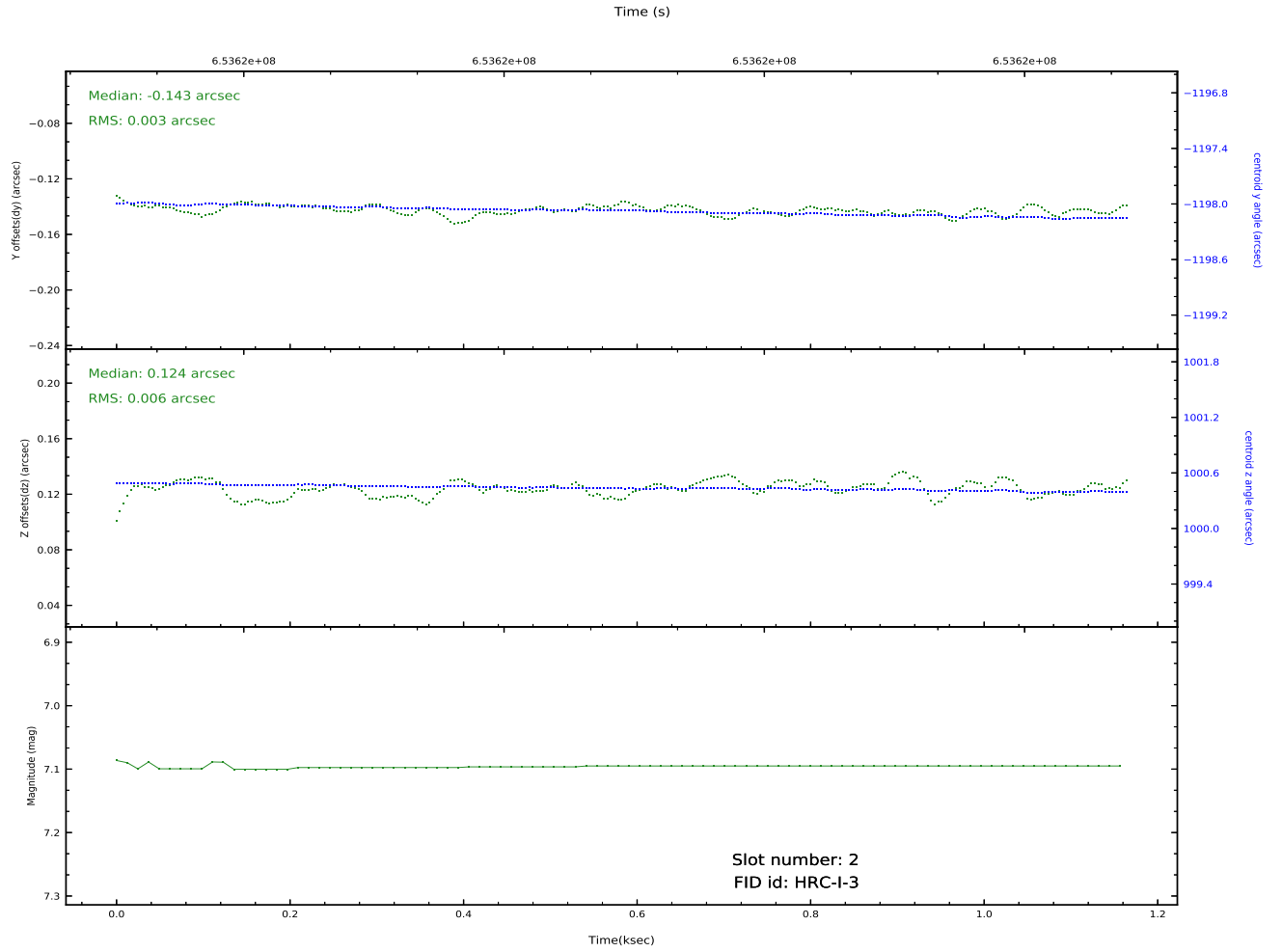
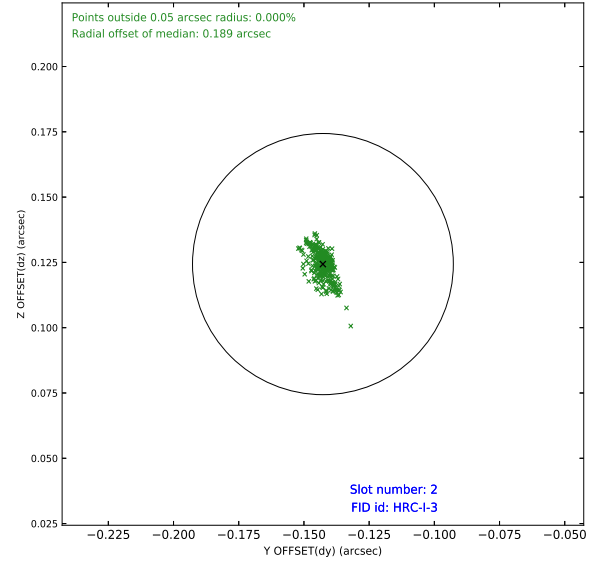
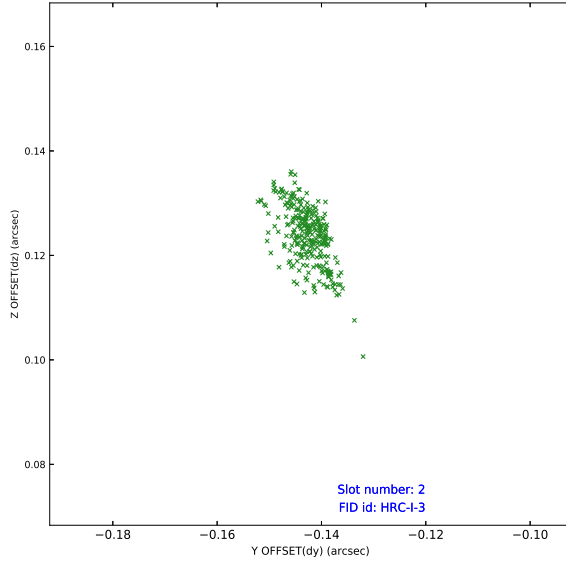
2.5.1 Slot 0



2.5.2 Slot 1



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	1.1674750694036

A.2 Comments