

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 18309 - L2 Version 3
Chandra X-Ray Center

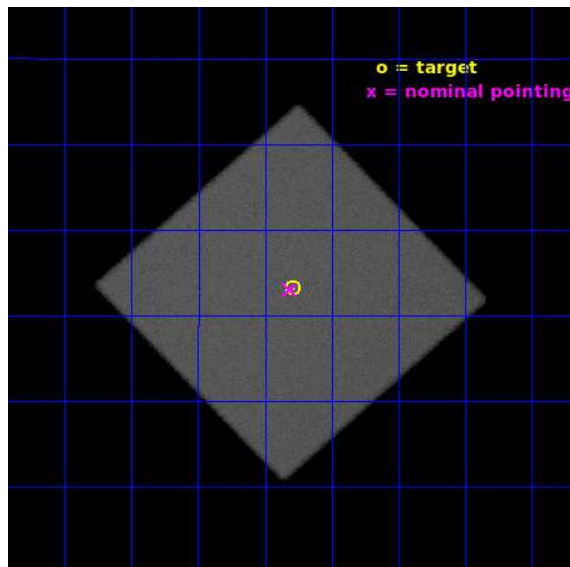
L2 Processing Date : Oct 27 2020

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1 Front

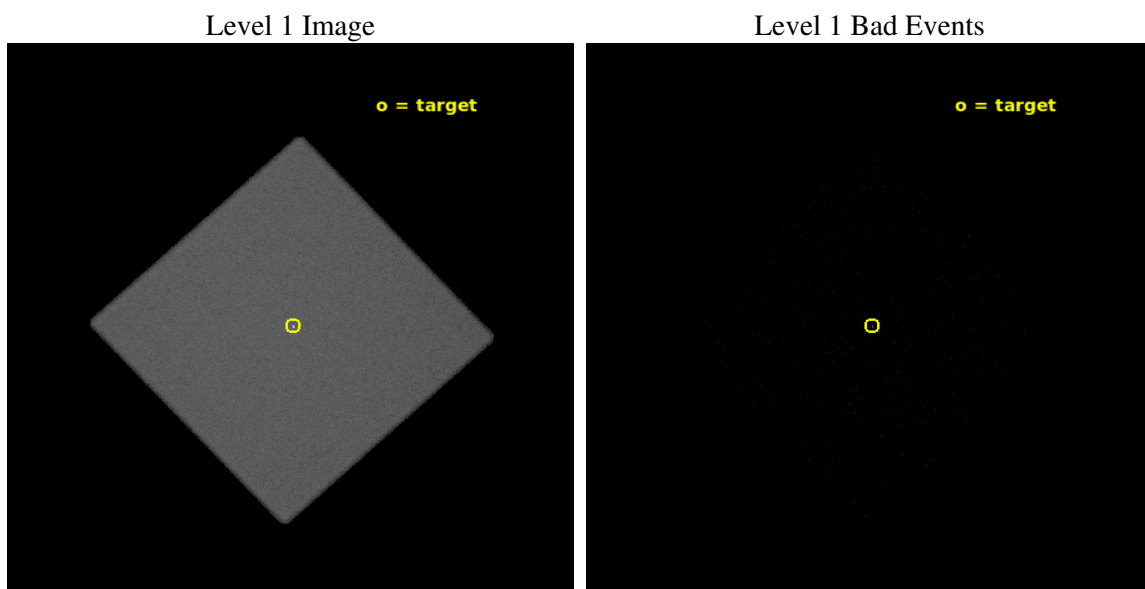
seq_num	201080	Sequence number
obs_id	18309	Observation id
title	Procyon: A New Candidate for the Dynamo Clinical Trial	Proposal ti
observer	THOMAS AYRES	Principal investigator
object	PROCYON	Source name
ra_targ	114.822083	Observer's specified target RA [deg]
dec_targ	5.220111	Observer's specified target Dec [deg]
ra_nom	114.82825650951	Nominal RA [deg]
dec_nom	5.2169927630233	Nominal Dec [deg]
roll_nom	92.237369712345	Nominal Roll [deg]
revision	3	Processing version of data
ontime	10075.750598311	[s]
livetime	9755.3661771565	Ontime multiplied by DTCOR
l2events	1212234	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	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	10075.750598311	[s]
caldsver	4.9.3	 	l1events	1807796	Number of level 1 events
date	2020-10-27T17:58:27	Date and time of file creation			
revision	3	Processing version of data			

2.1.3 Events

Level 1 Events

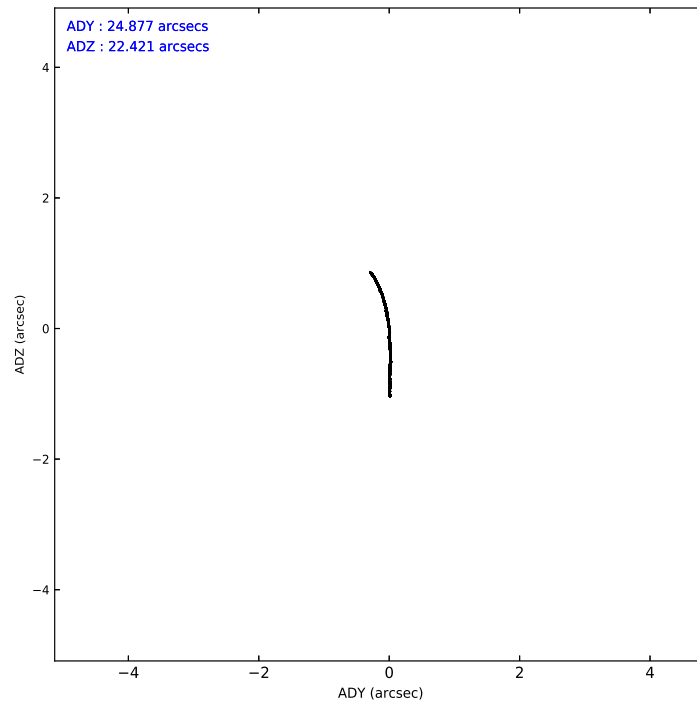
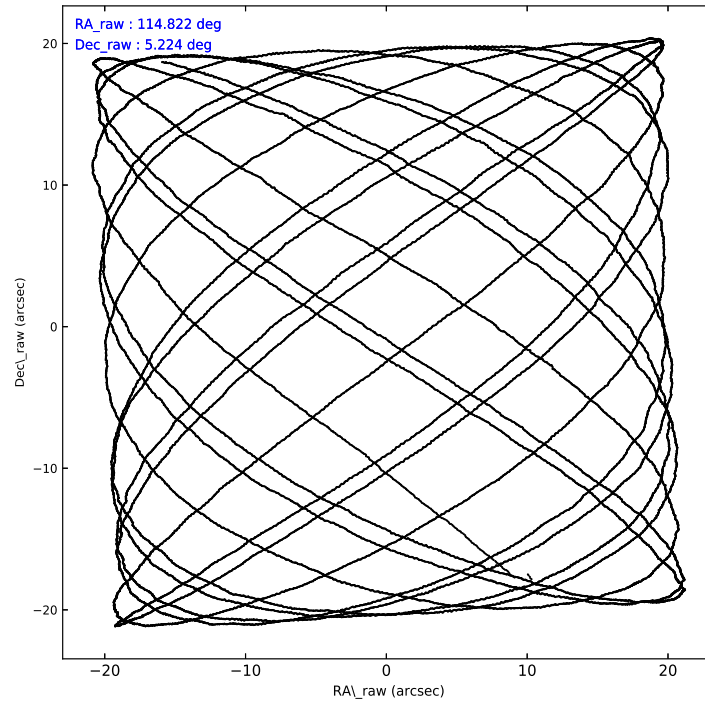
	segment 0
level 1 events	1807796
rejected events	211416
rejected %	11%

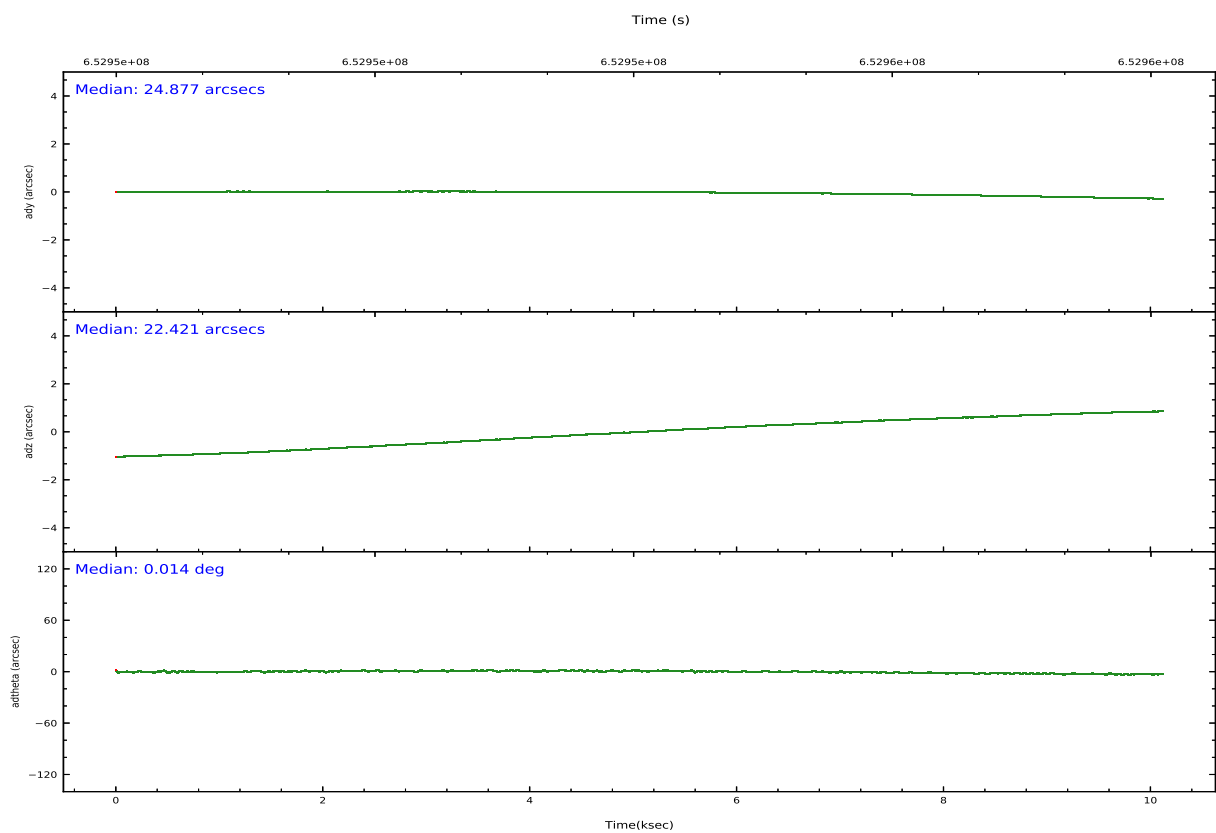
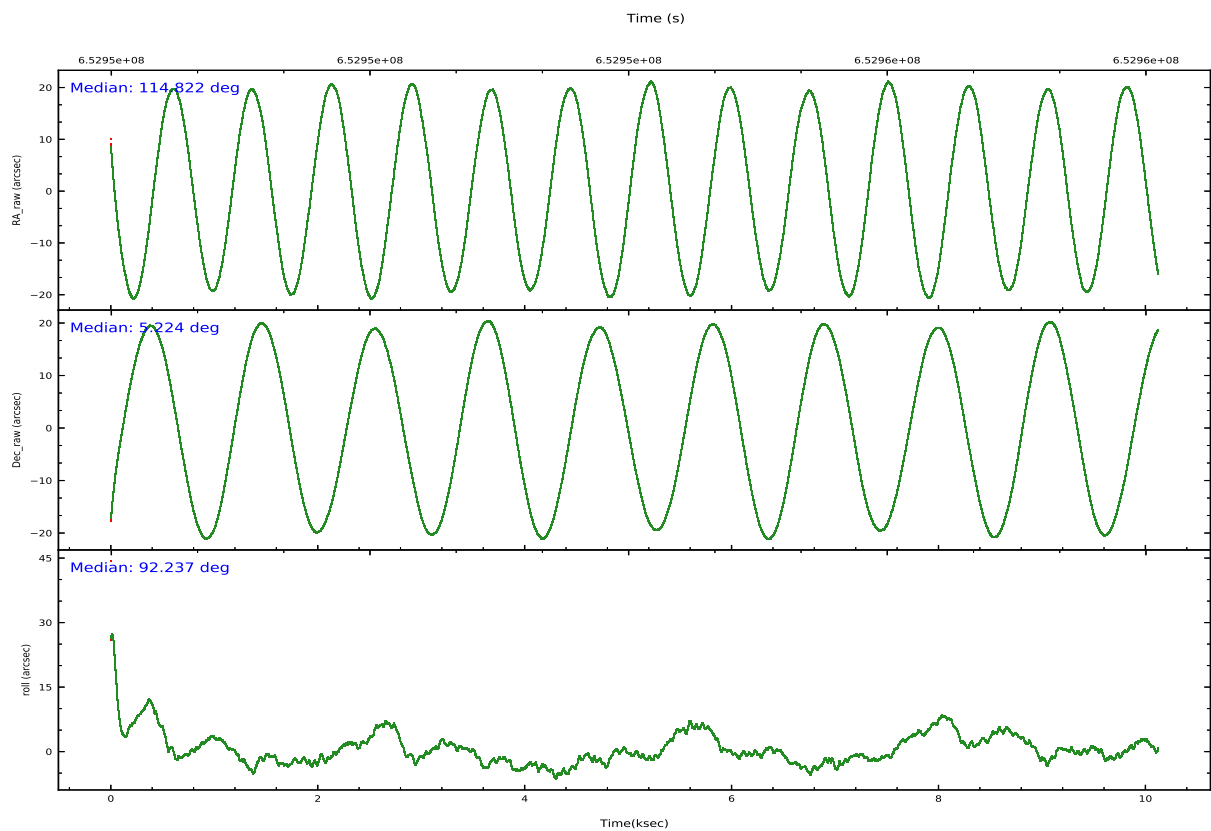
2.2 Compared Parameters

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	114.836817	114.82825650951
[deg] Pointing Dec	5.201068	5.2169927630233
[deg] Pointing Roll	92.358037	92.237369712345
[mm] SIM focus pos	-1.040293	-1.038866356238299
[mm] SIM defocus	0	0.001426264420575141
[mm] SIM translation stage pos	126.985494	126.9854943052878
[mm] SIM translation stage offset	0	-5.413686238853188e-06
[s] Observation start time (MET)	652947618.184000	652946234.7898999
Observation start date	2018-09-10T06:19:09	2018-09-10T05:57:14
[s] Observation end time (MET)	652957618.184000	652958426.14062
Observation end date	2018-09-10T09:05:49	2018-09-10T09:20:26

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

2.3 Aspect



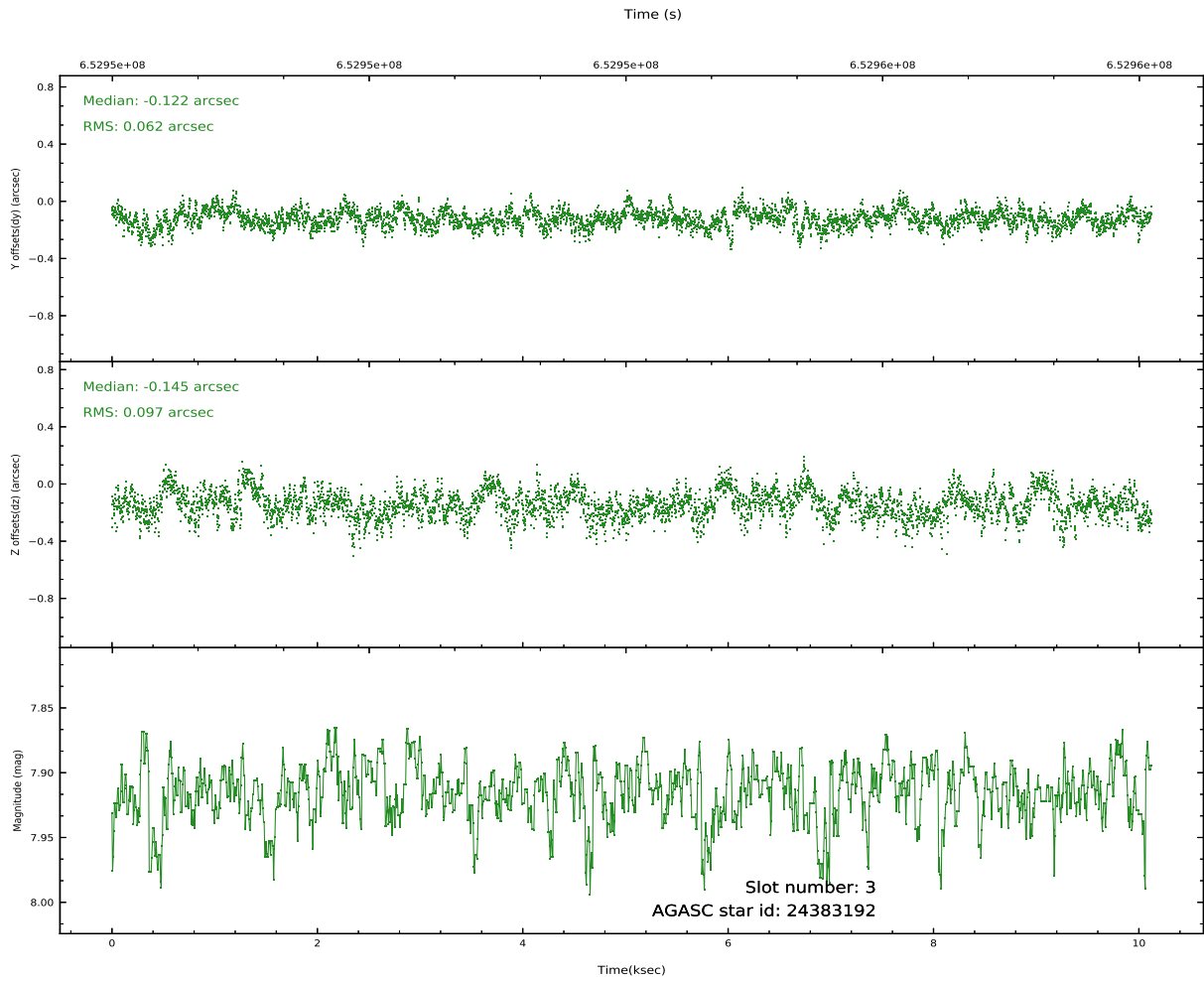
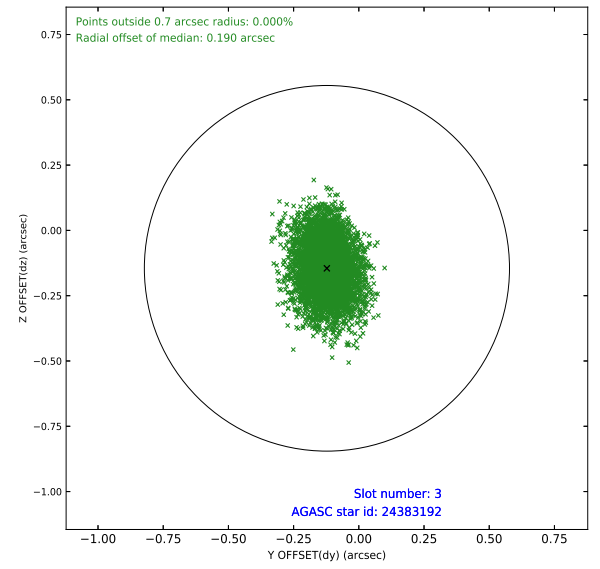
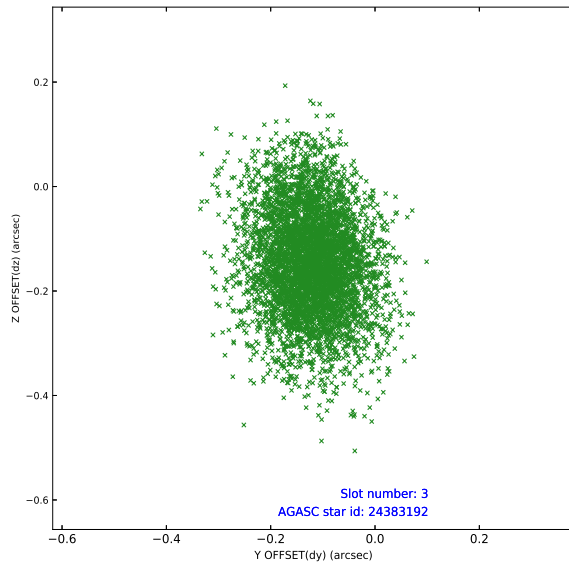


Slot Statistics

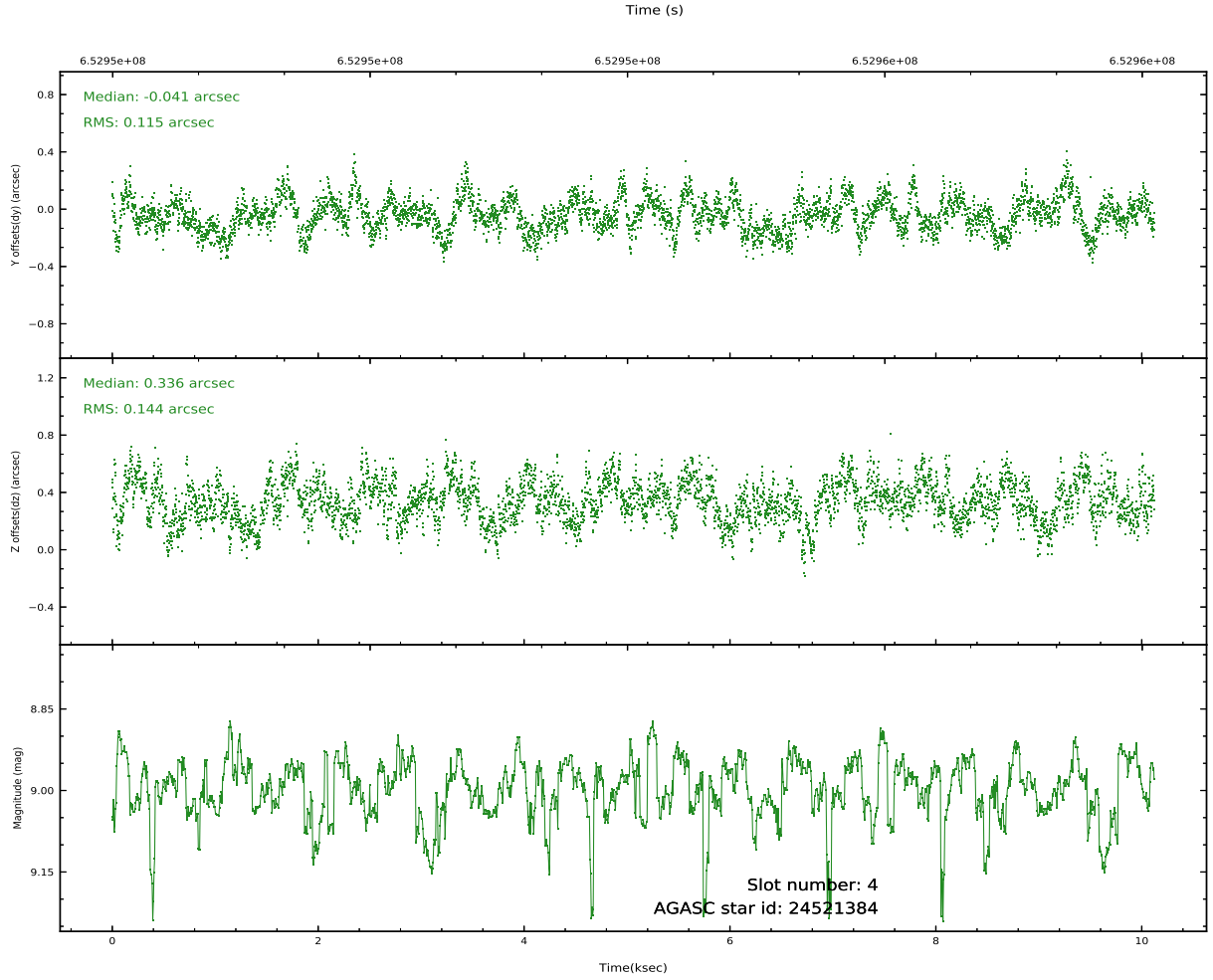
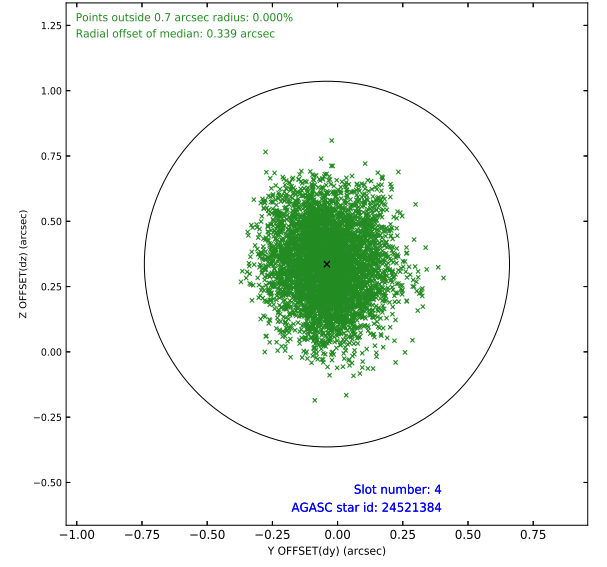
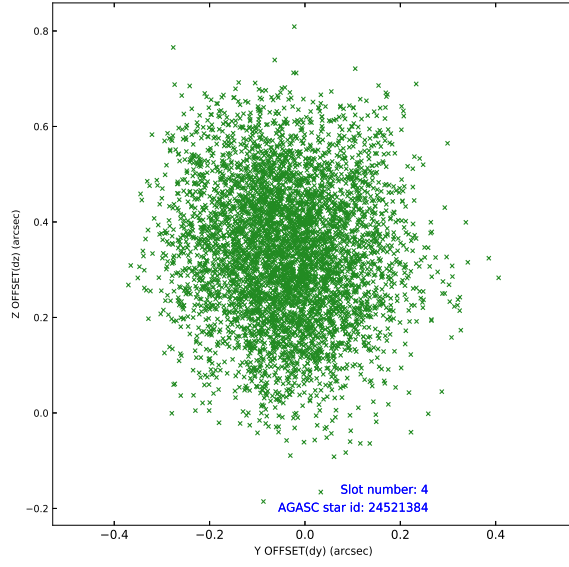
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		HRC-I-1	7.03	2470	1.000	-0.044	0.074	0.018	0.035	0.000000	0.000000	-781.06	-1310
1	FID		HRC-I-2	7.07	2470	1.000	0.340	-0.295	0.014	0.022	0.000000	0.000000	831.64	-1313
2	FID		HRC-I-3	7.14	2470	1.000	-0.175	0.137	0.013	0.019	0.000000	0.000000	-1209.13	993
3	GUIDE	used	24383192	7.91	4939	1.000	-0.122	-0.145	0.122	0.206	114.373279	5.211521	106.19	1658
4	GUIDE	used	24521384	8.99	4933	1.000	-0.041	0.336	0.199	0.314	115.392701	5.417327	697.20	-2022
5	GUIDE	used	25039776	8.60	4934	1.000	-0.006	-0.107	0.155	0.265	115.184333	5.805632	2124.29	-1333
6	GUIDE	used	24522920	7.91	4939	1.000	0.171	-0.085	0.126	0.207	114.615561	5.074592	-421.62	810
7	OMITTED			0.00	0	0.000	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0

2.4 Star Slots

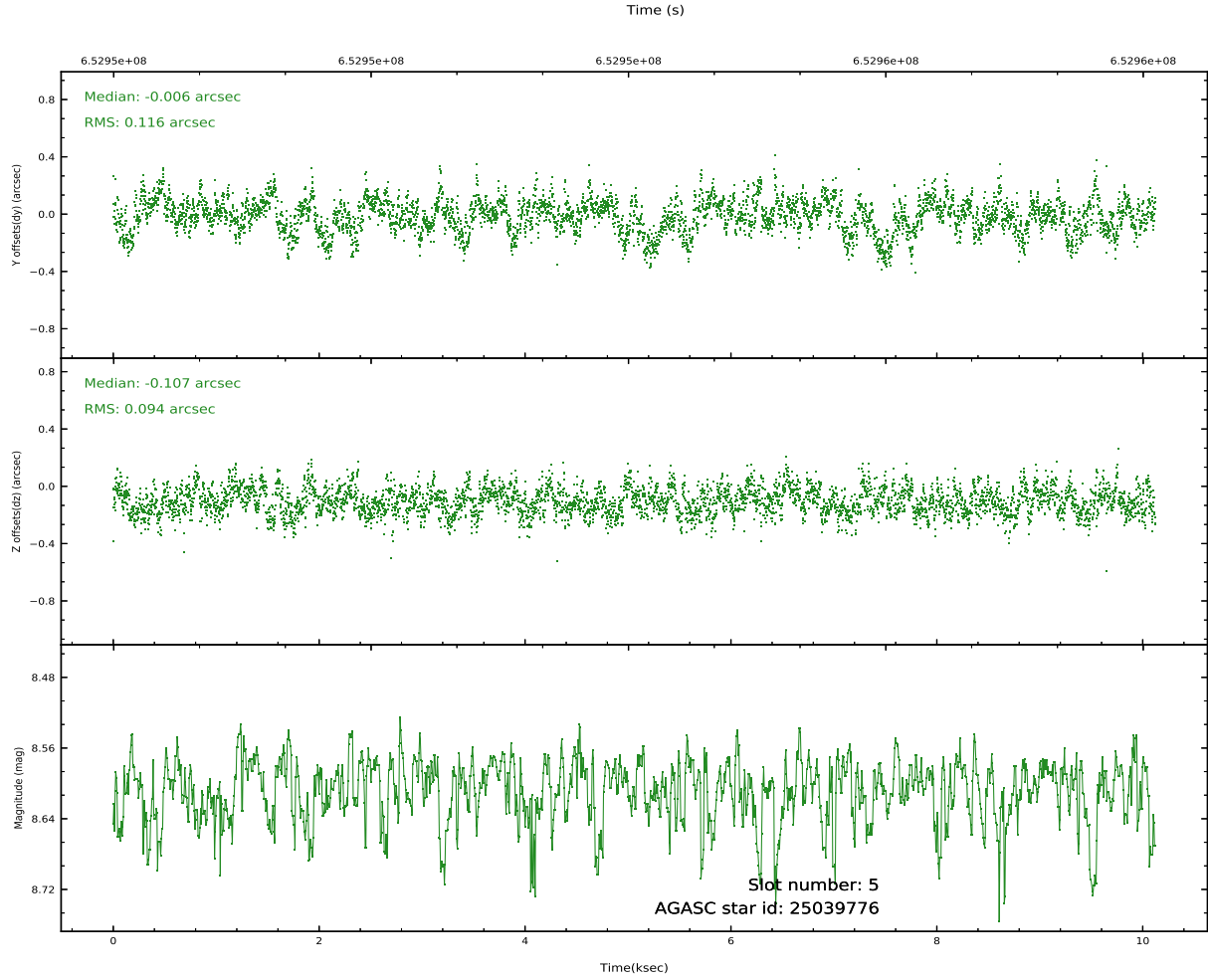
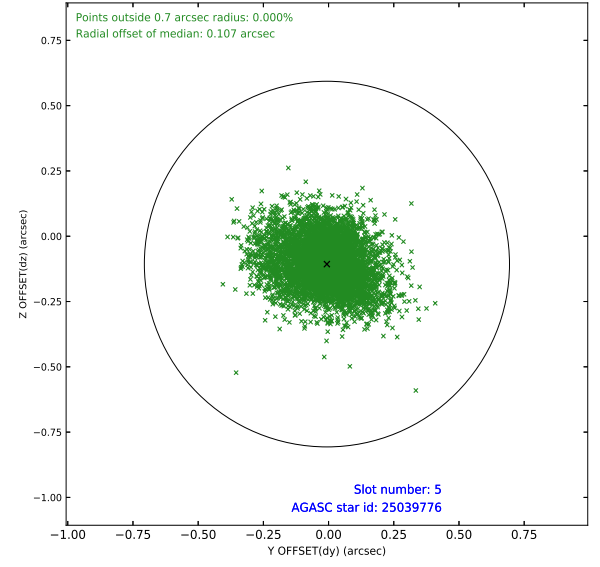
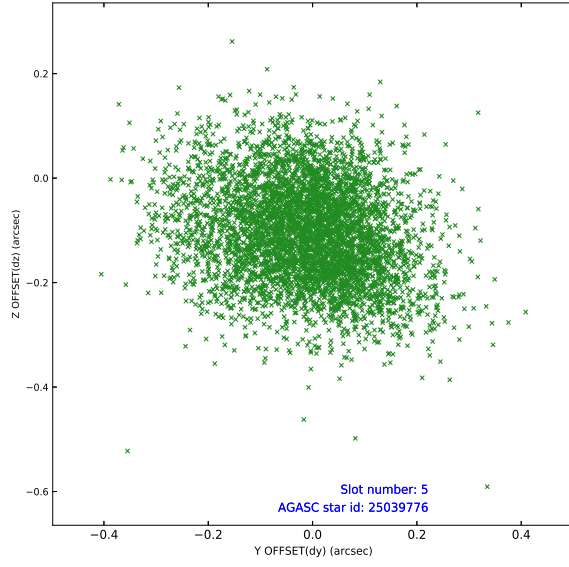
2.4.1 Slot 3



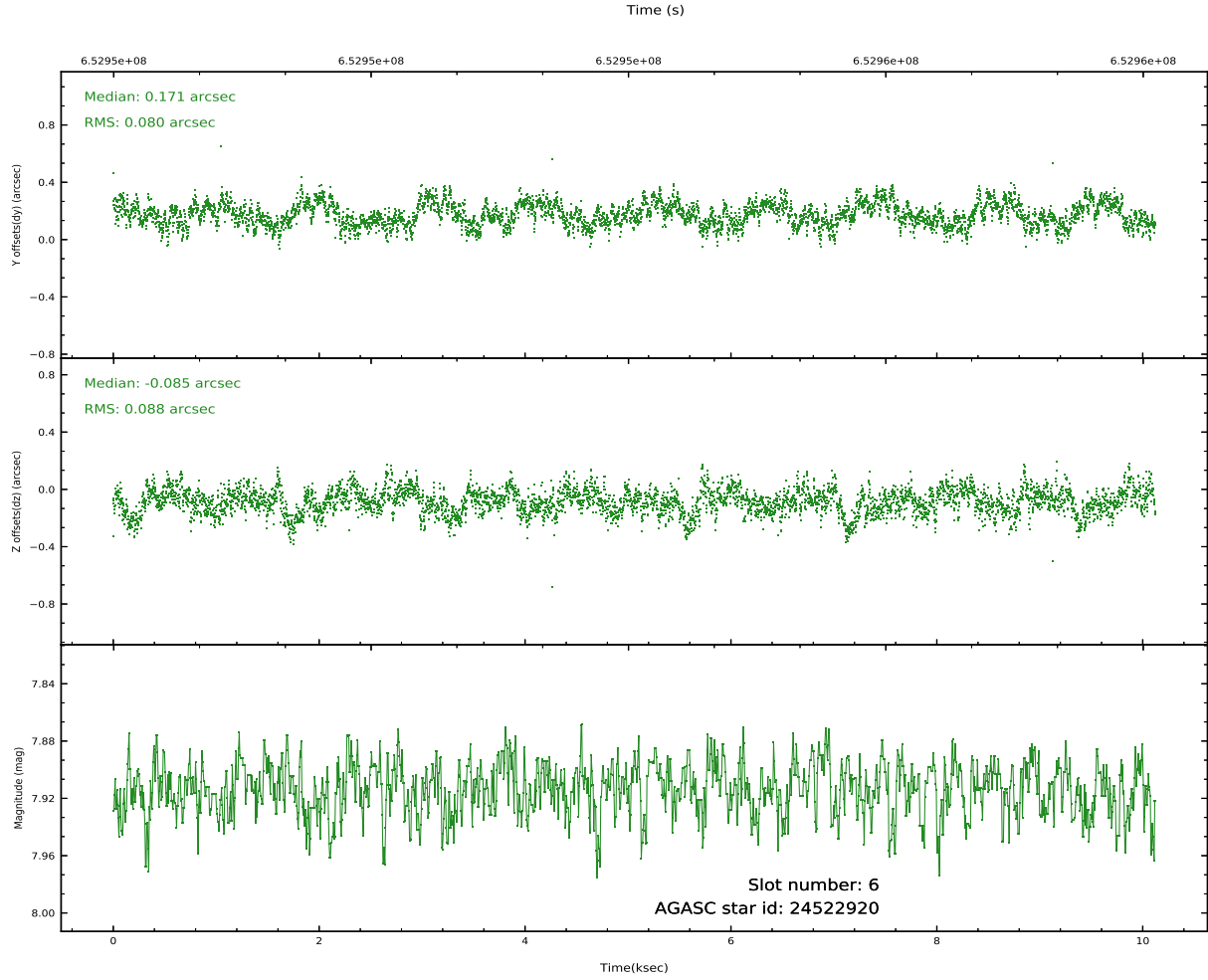
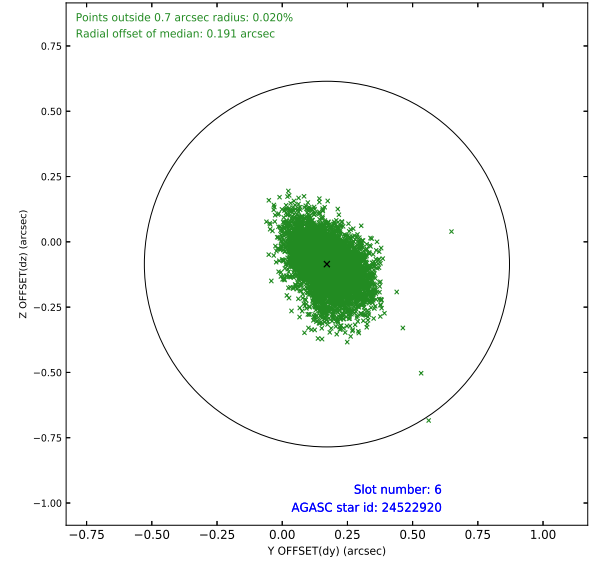
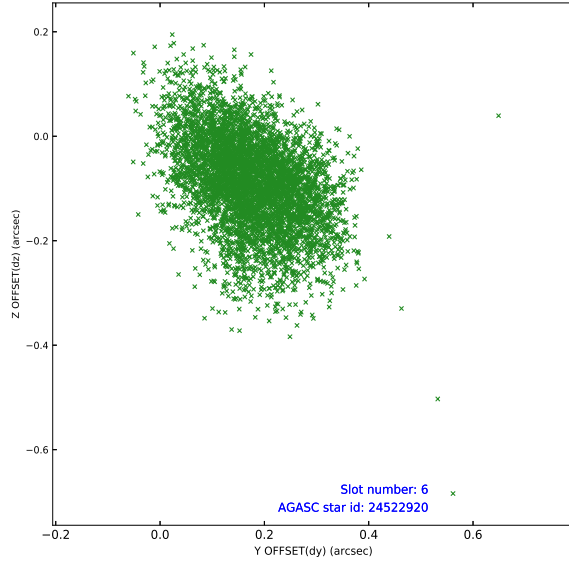
2.4.2 Slot 4



2.4.3 Slot 5

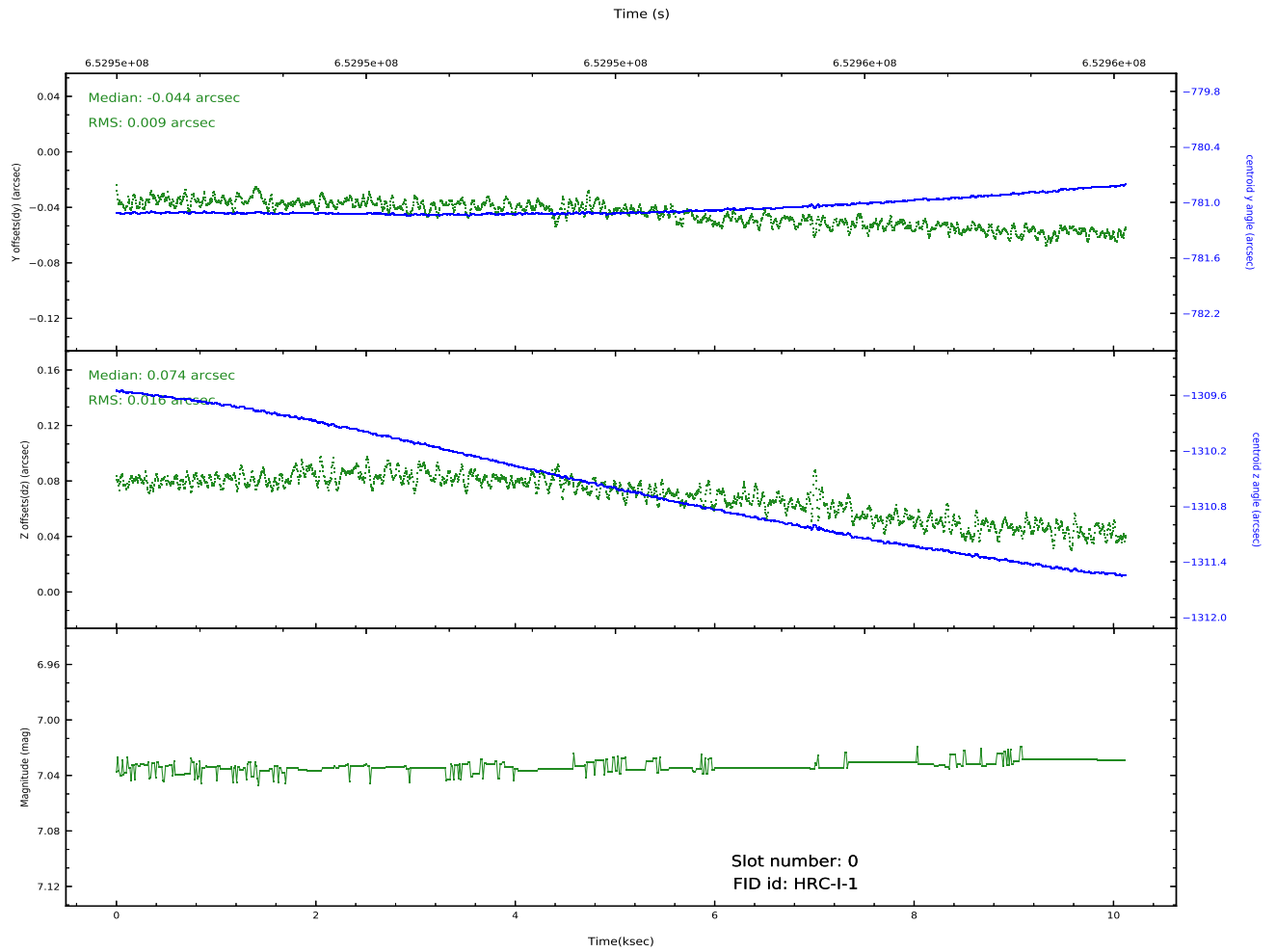
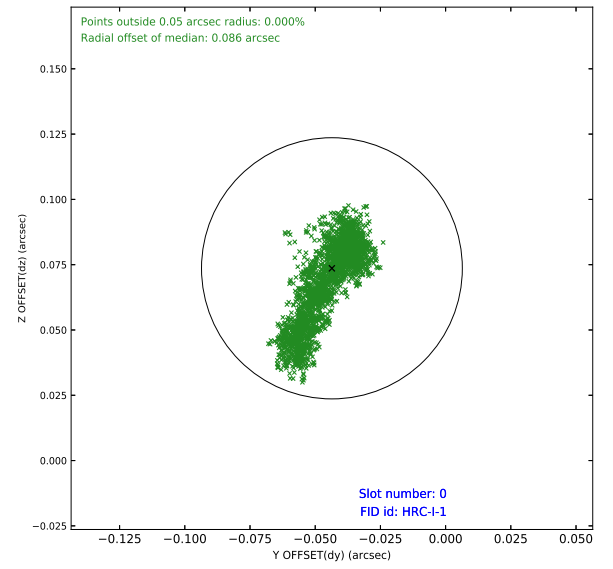
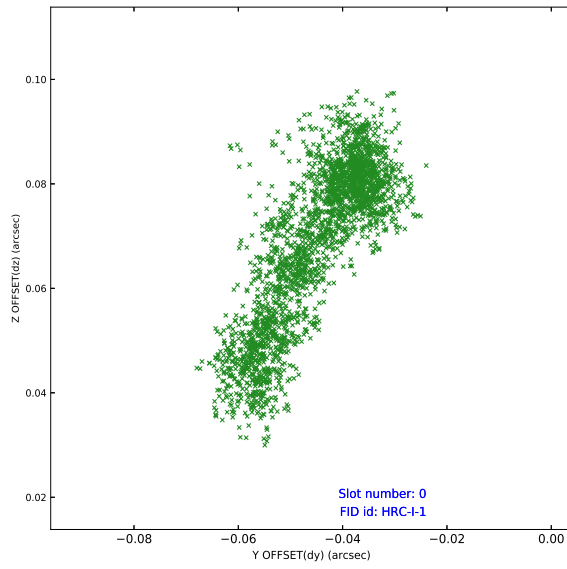


2.4.4 Slot 6

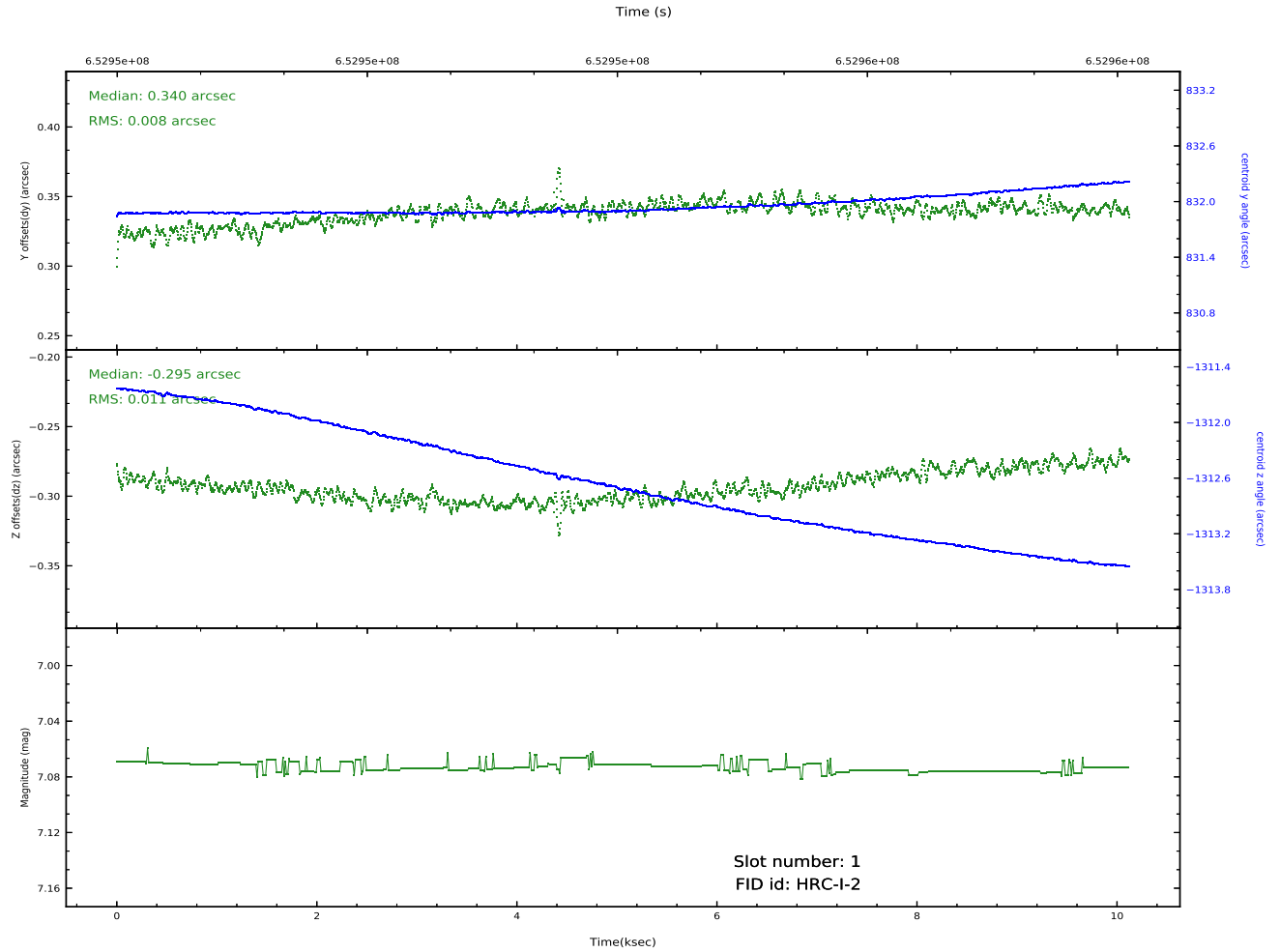
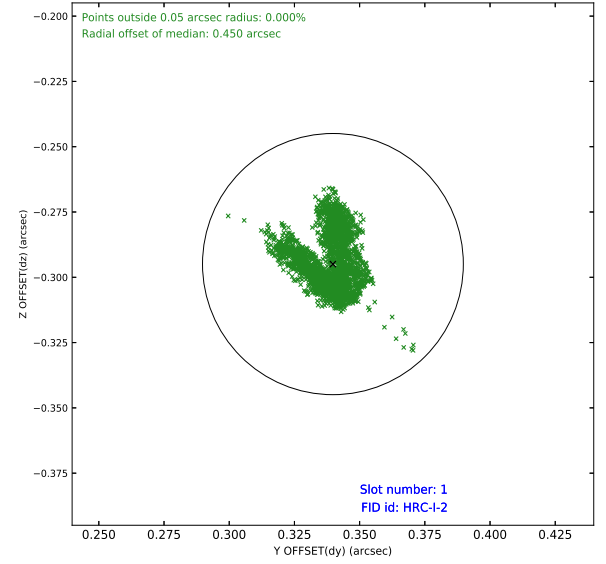
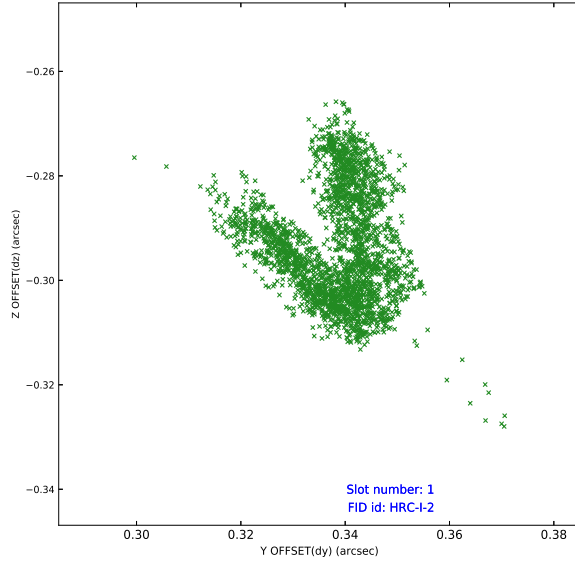


2.5 FID Slots

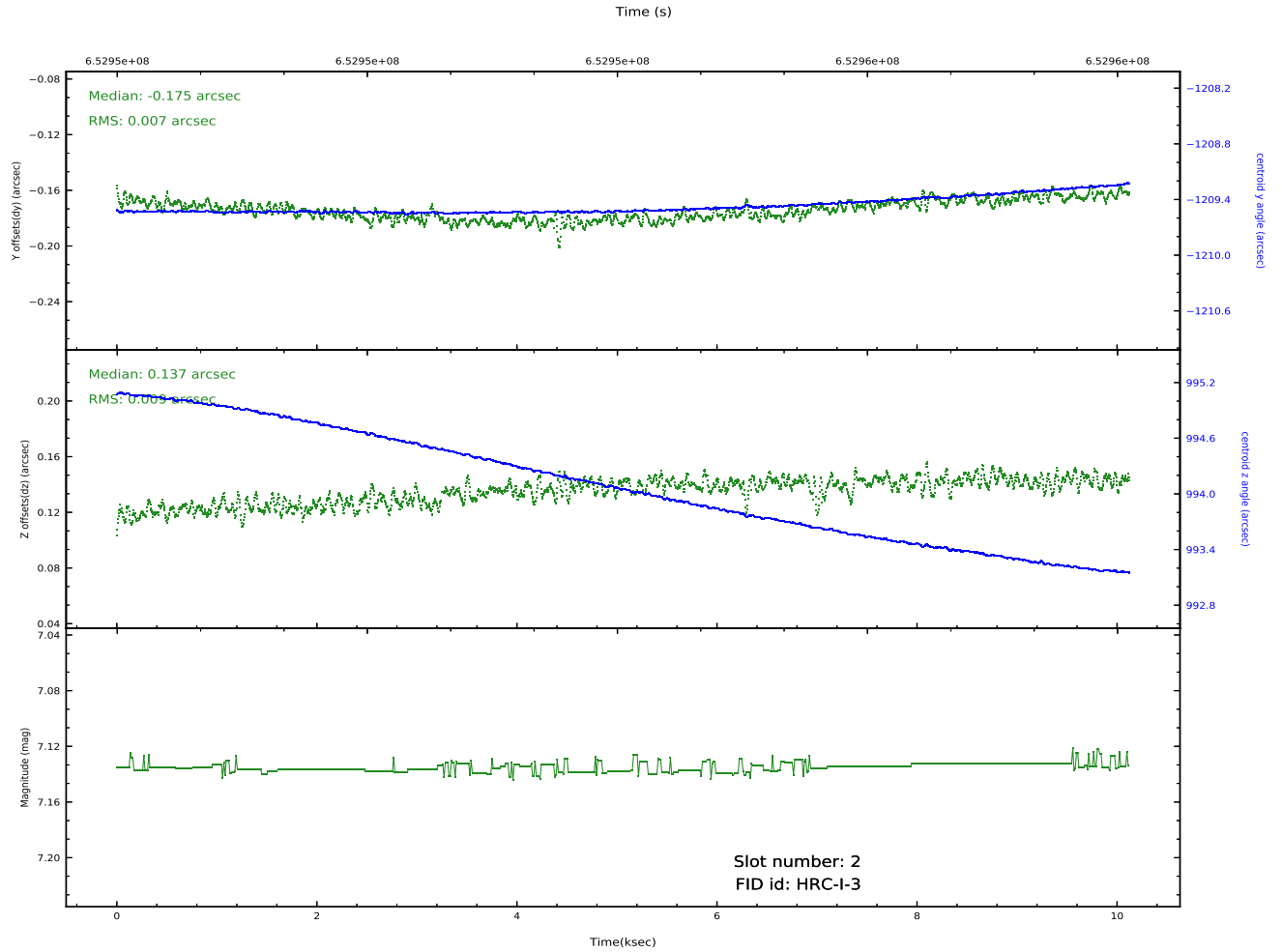
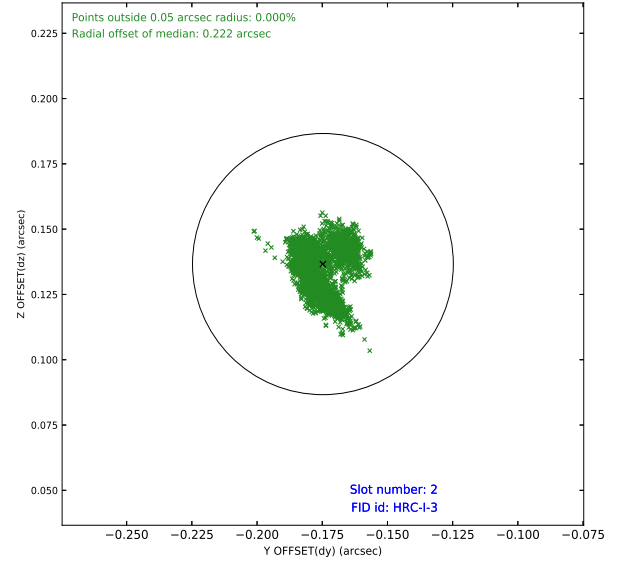
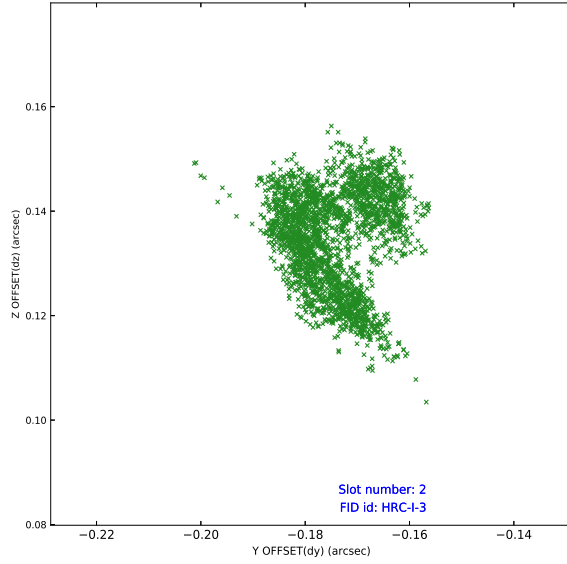
2.5.1 Slot 0



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	10.07575059855

A.2 Comments

The guide star in slot 7 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this slot from the solution.

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Due to corruption of the secondary science data during this observation, some instrument parameters have bogus values. The data in this observation have been inspected by the HRC team. PLEASE NOTE: All the event data in this observation are good. The short gaps in the GTI intervals can be eliminated (i.e., use the first START and last STOP). THE DTF values during this observation can be estimated by dropping all the low values and averaging the remaining values near 1.0.