

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 4850 - L2 Version 7
Chandra X-Ray Center

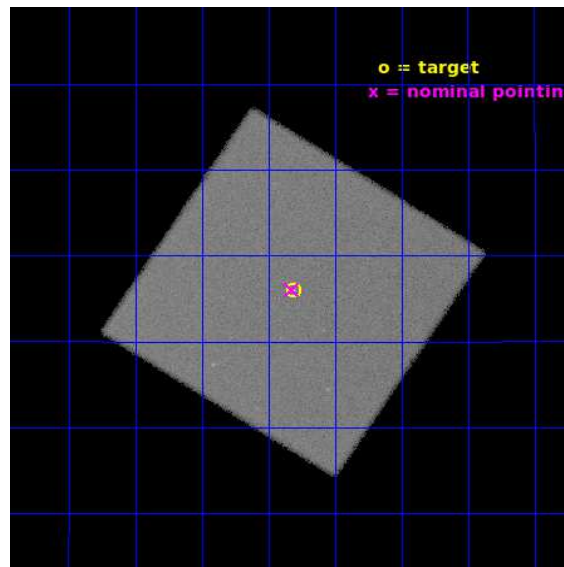
L2 Processing Date : Oct 6 2020

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1 Front

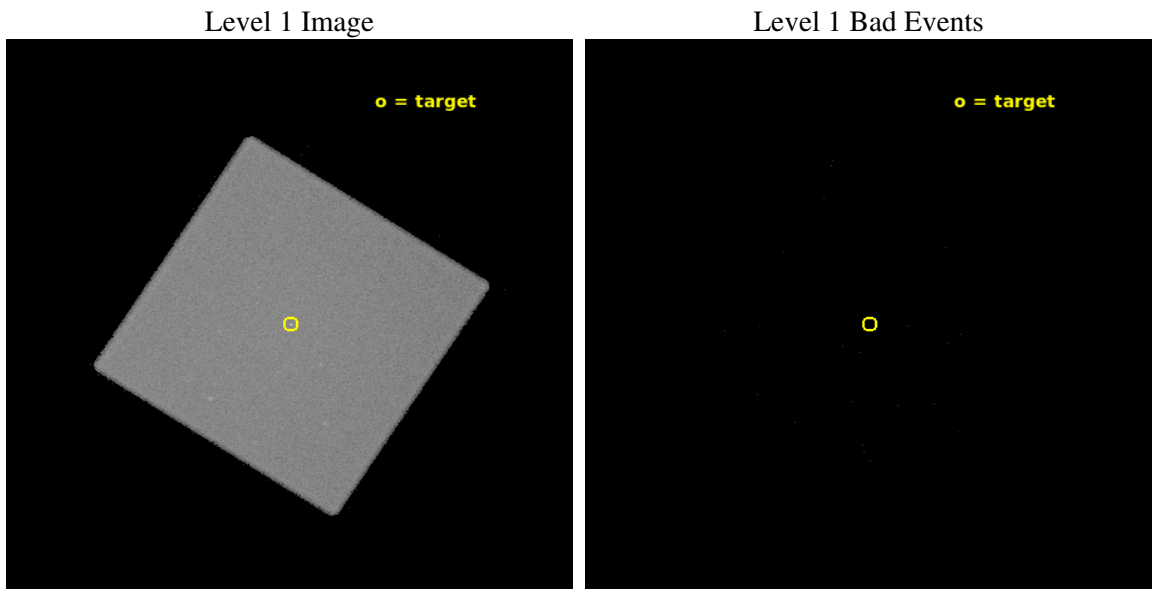
seq_num	700932	Sequence number
obs_id	4850	Observation id
title	EXTENDED EMISSION AND ACCRETION RATES IN BL LACERTAE OBJECTS	Propo
observer	Dr. Rita Sambruna	Principal investigator
object	1ES 1239+069	Source name
ra_targ	190.45125	Observer's specified target RA [deg]
dec_targ	6.600278	Observer's specified target Dec [deg]
ra_nom	190.45552222984	Nominal RA [deg]
dec_nom	6.6009122819618	Nominal Dec [deg]
roll_nom	77.793951353831	Nominal Roll [deg]
revision	7	Processing version of data
ontime	20515.632178277	[s]
livetime	20379.882118688	Ontime multiplied by DTCOR
l2events	720925	Number of level 2 events



2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Parameters

obi_num	2	Obi number	sched_exp_time	20350.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	20515.632178277	[s]
caldsver	4.9.2	 	l1events	1123800	Number of level 1 events
date	2020-10-06T16:55:45	Date and time of file creation			
revision	7	Processing version of data			

2.1.3 Events

Level 1 Events

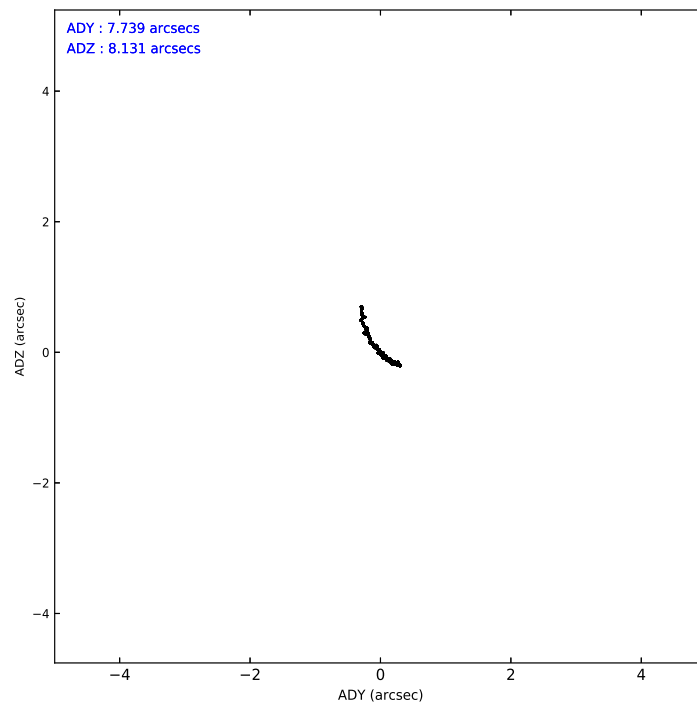
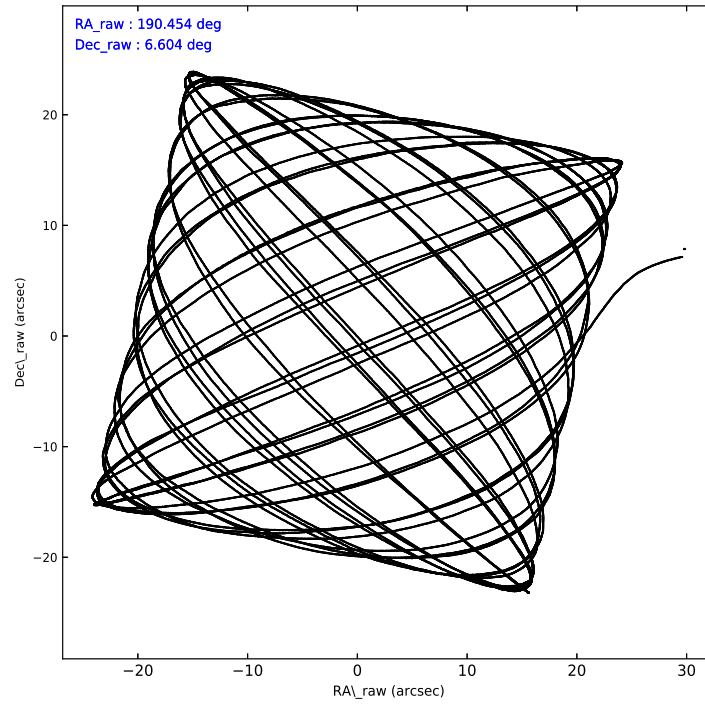
	segment 0
level 1 events	1123800
rejected events	50292
rejected %	4%

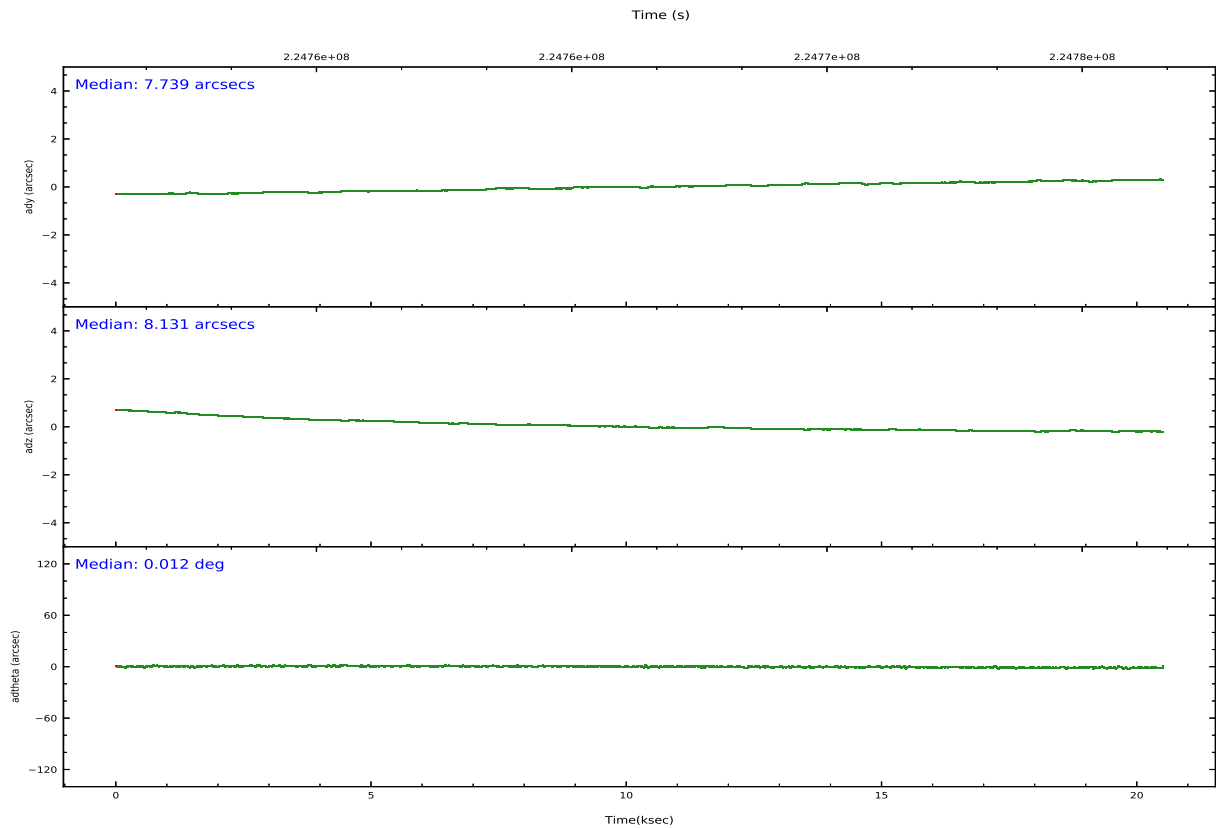
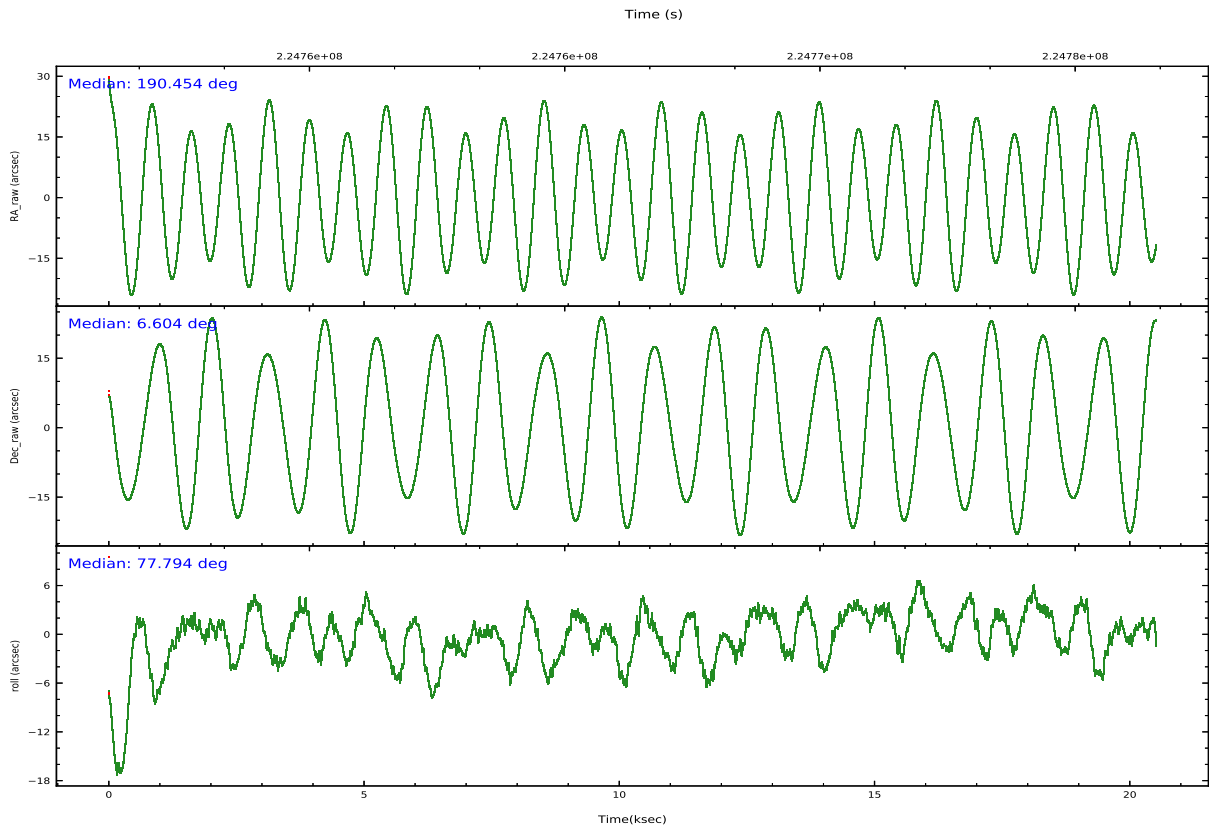
2.2 Compared Parameters

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	190.462595	190.45552222984
[deg] Pointing Dec	6.578091	6.6009122819618
[deg] Pointing Roll	77.904356	77.79395135383101
[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)	224756236.184000	224755129.43495
Observation start date	2005-02-14T08:16:12	2005-02-14T07:58:49
[s] Observation end time (MET)	224776586.184000	224777031.63594
Observation end date	2005-02-14T13:55:22	2005-02-14T14:03:51

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

2.3 Aspect





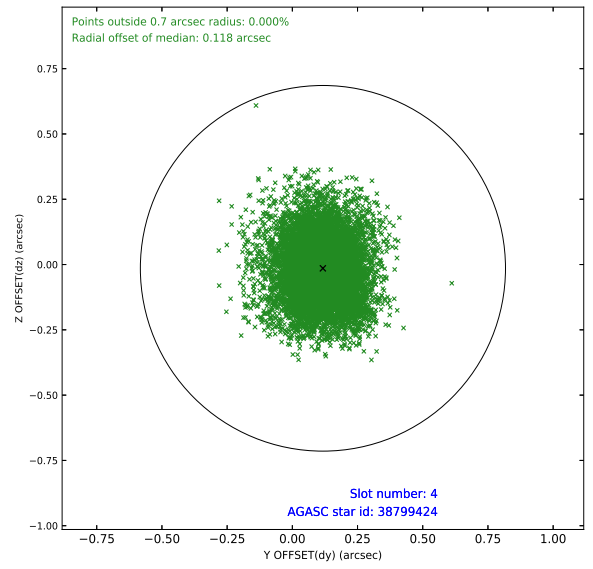
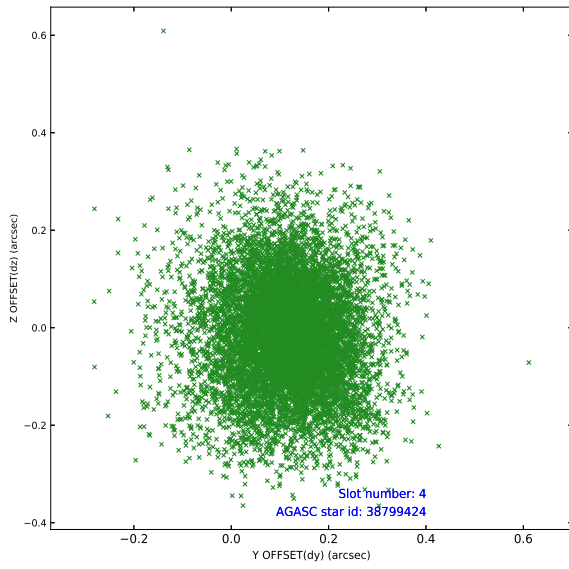
Slot Statistics

slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_x
0	FID		HRC-I-1	7.01	5005	1.000	-0.057	-0.030	0.007	0.012	0.000000	0.000000	-763.47	-1296
1	FID		HRC-I-2	7.05	5004	1.000	0.125	-0.100	0.008	0.012	0.000000	0.000000	849.19	-1298
2	FID		HRC-I-4	7.04	5004	1.000	0.048	0.038	0.008	0.015	0.000000	0.000000	1279.73	1005
3	OMITTED			0.00	0	0.000	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0
4	GUIDE	used	38799424	9.83	10001	1.000	0.117	-0.014	0.149	0.260	190.857817	6.447245	-163.03	-1480
5	GUIDE	used	38800768	9.78	10001	1.000	0.142	-0.072	0.121	0.195	190.036688	6.172754	-1745.18	1185
6	GUIDE	used	38800784	9.63	10007	1.000	-0.116	-0.083	0.105	0.170	190.463415	7.032478	1600.32	340
7	GUIDE	used	38801128	8.78	10008	1.000	-0.142	0.169	0.079	0.128	191.083745	6.854707	1440.79	-1961

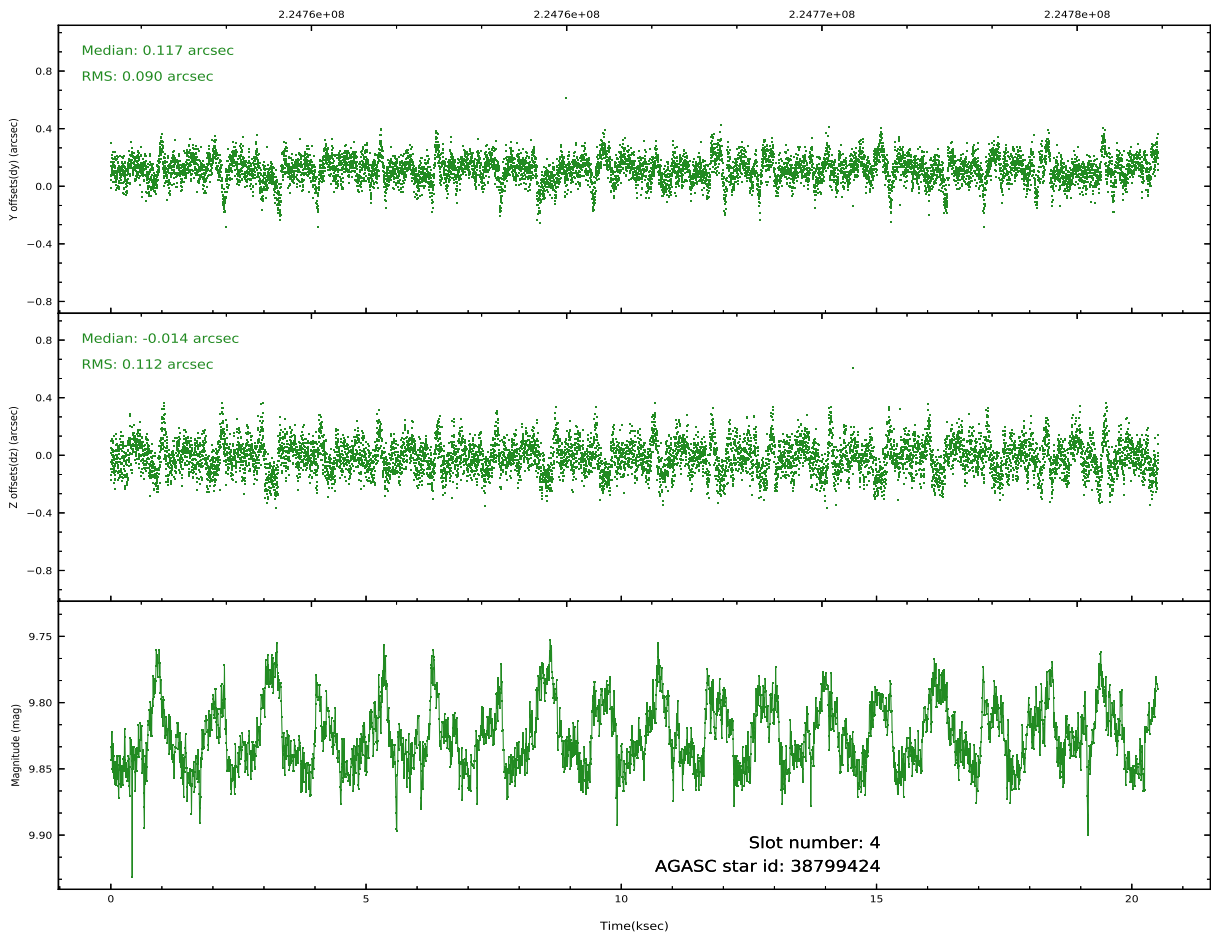
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2.4 Star Slots

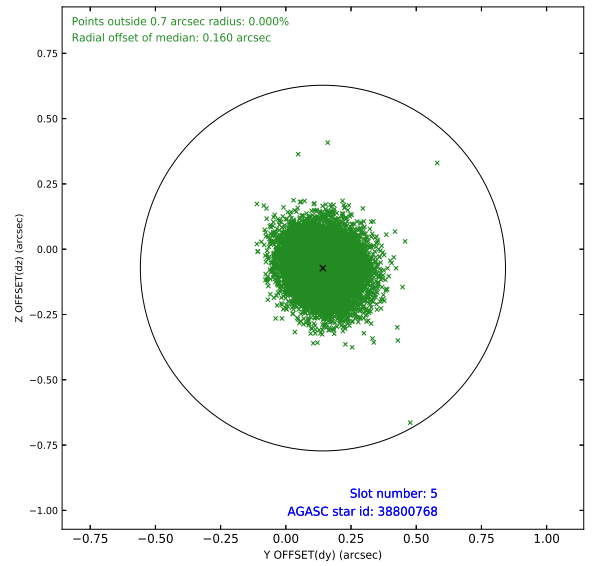
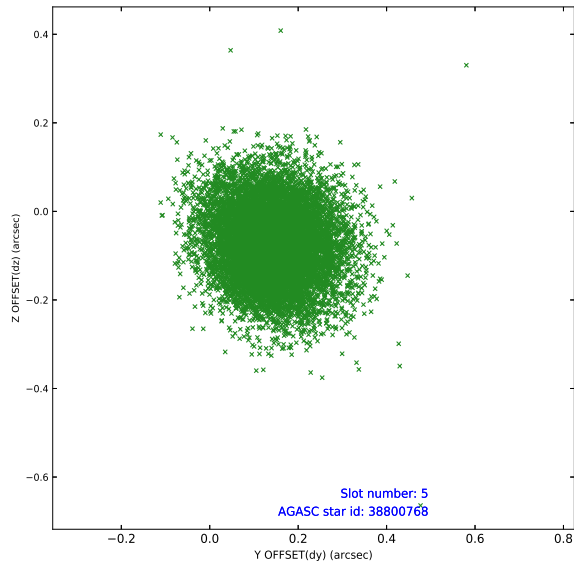
2.4.1 Slot 4



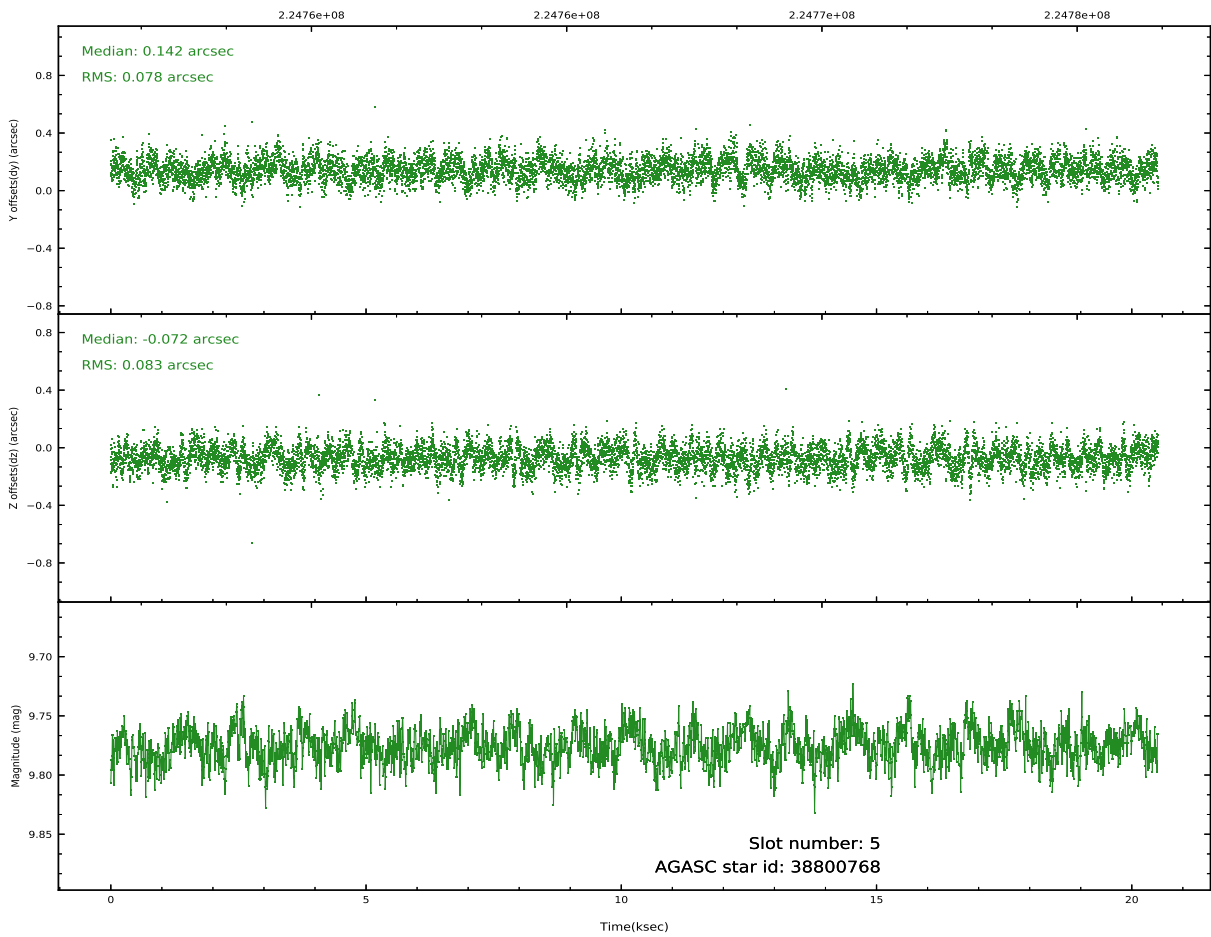
Time (s)



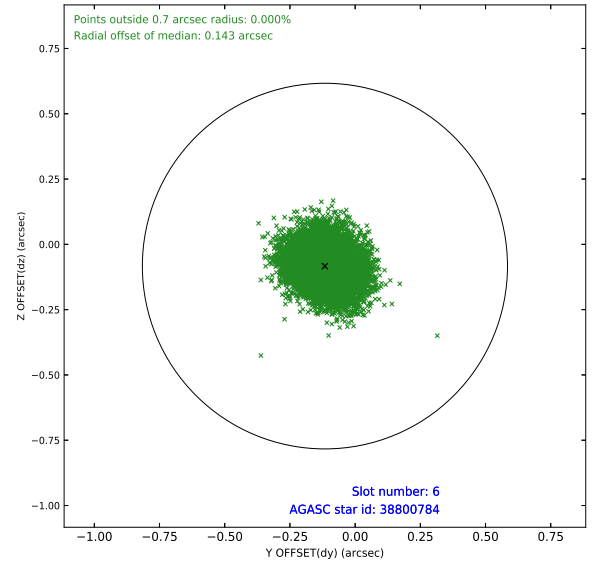
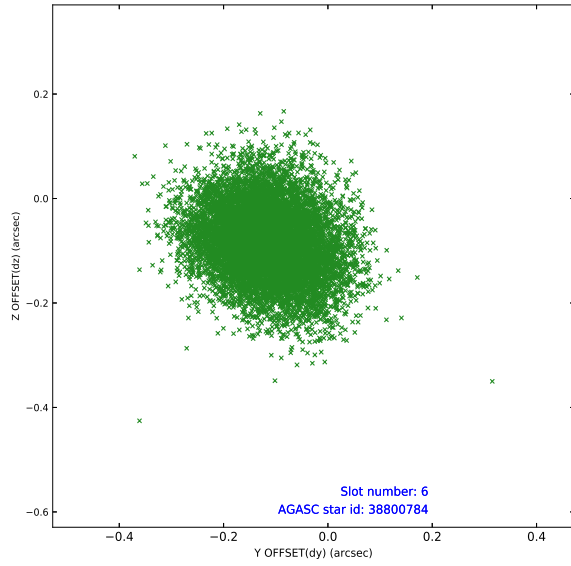
2.4.2 Slot 5



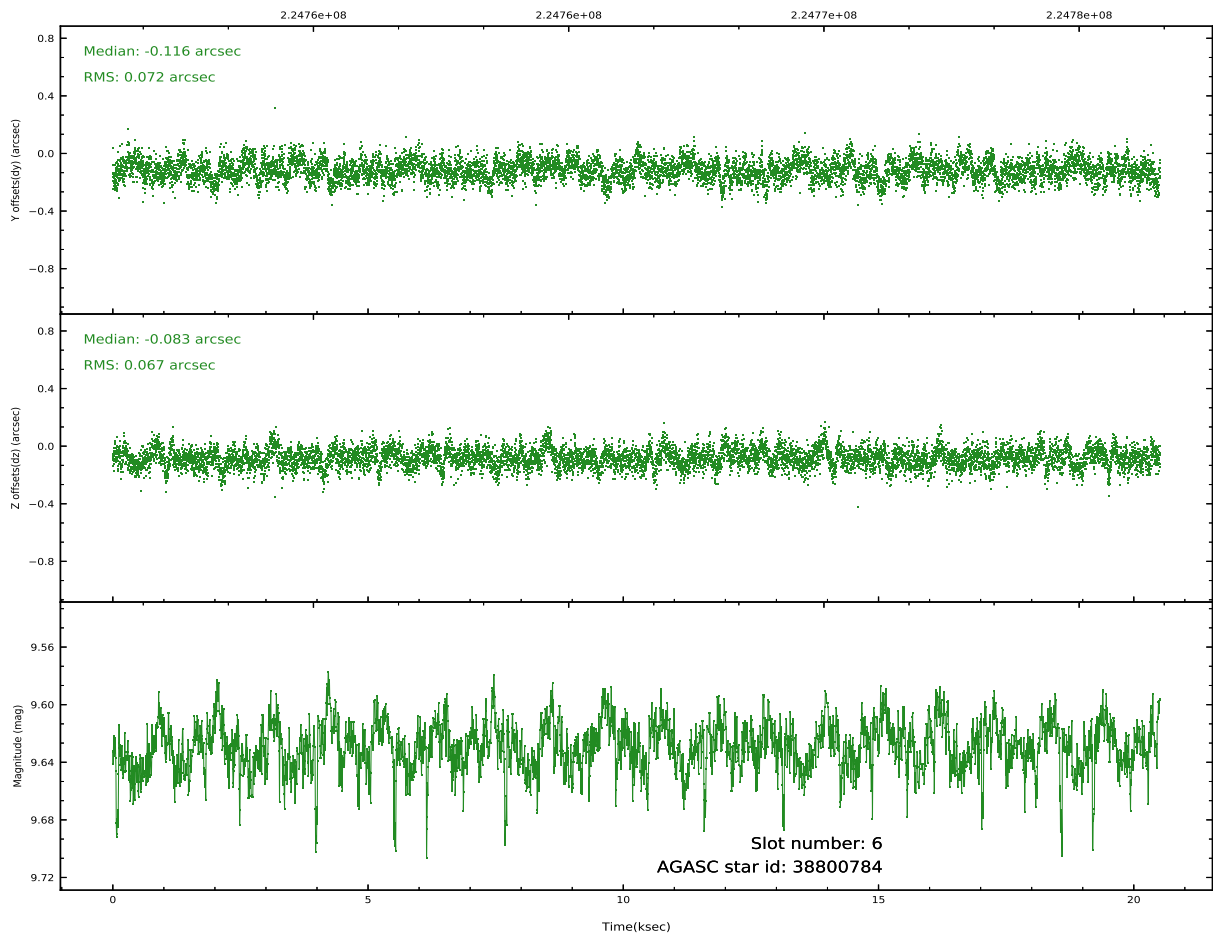
Time (s)



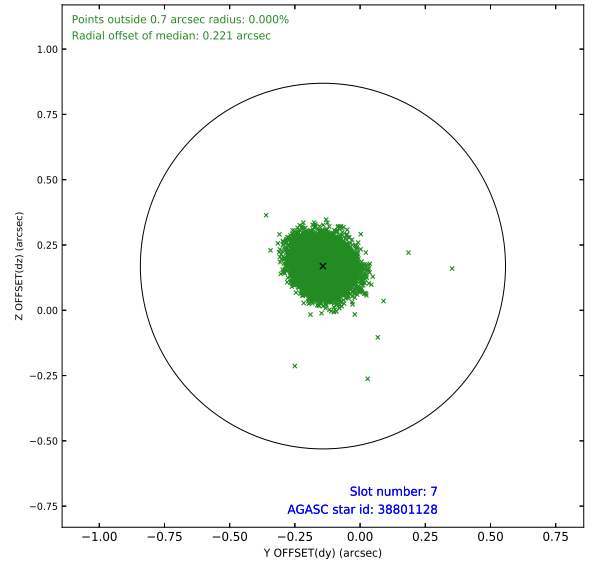
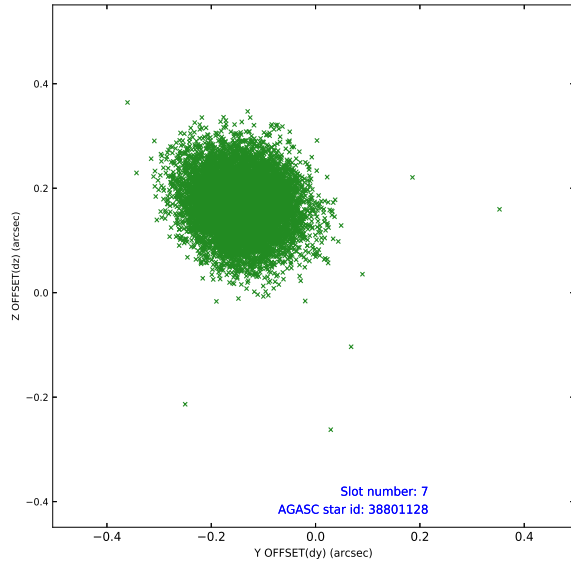
2.4.3 Slot 6



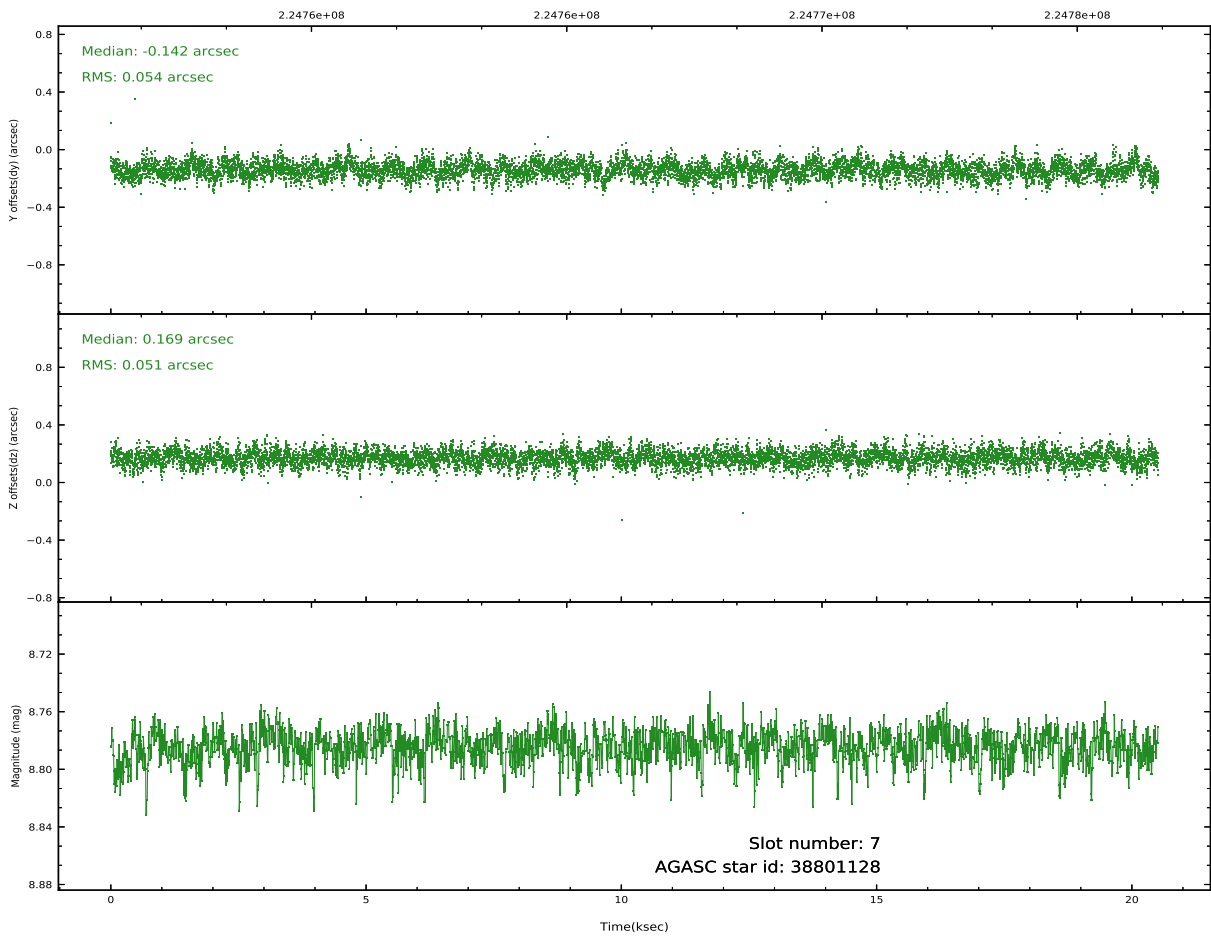
Time (s)



2.4.4 Slot 7

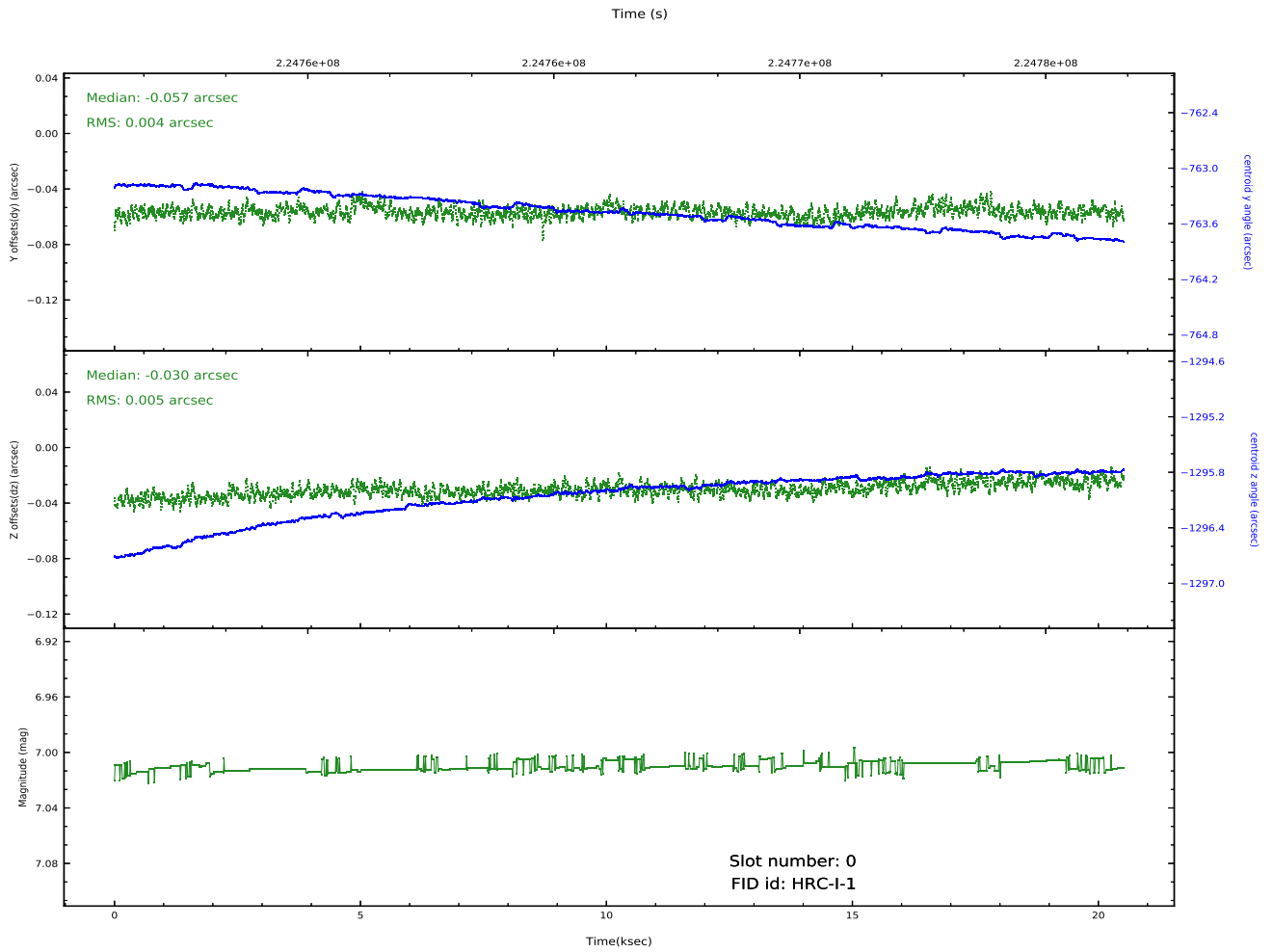
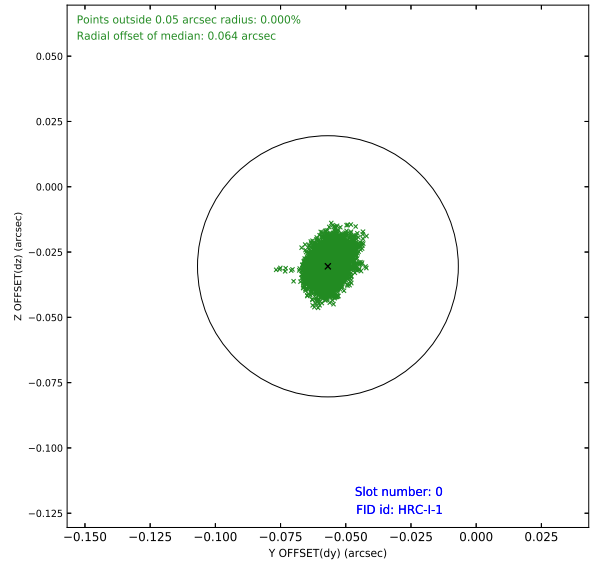
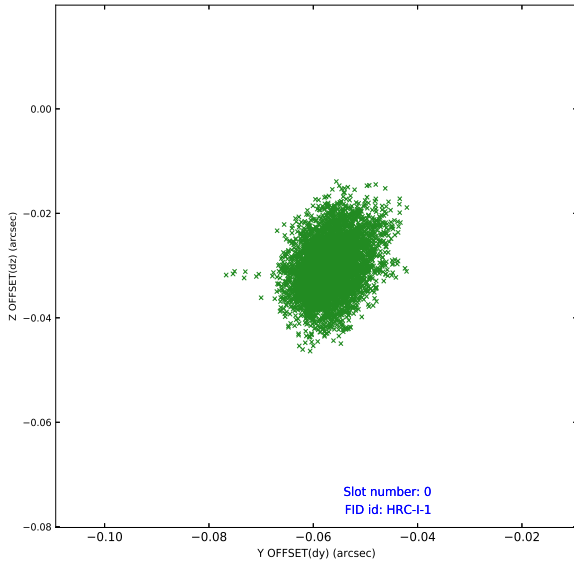


Time (s)

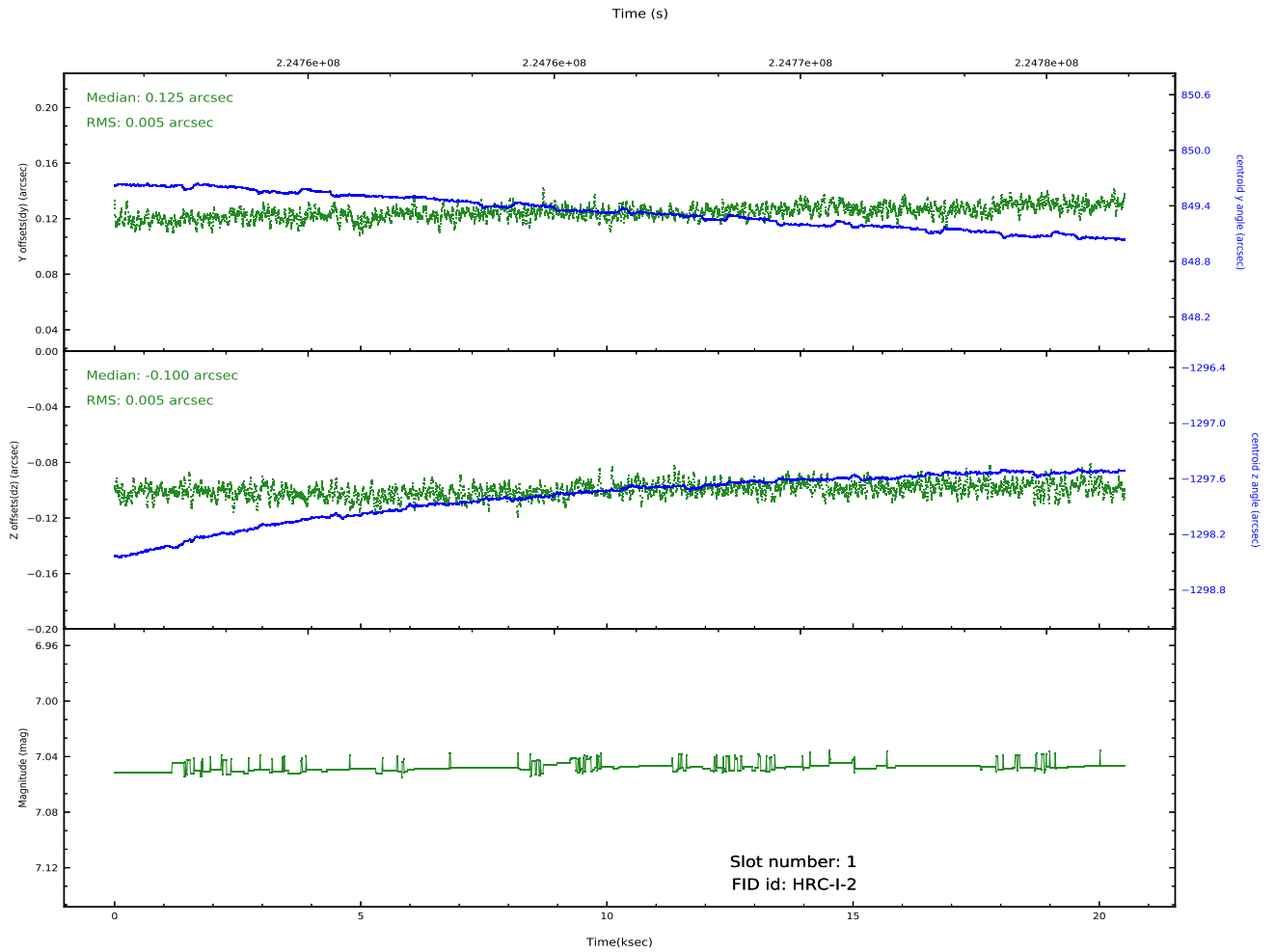
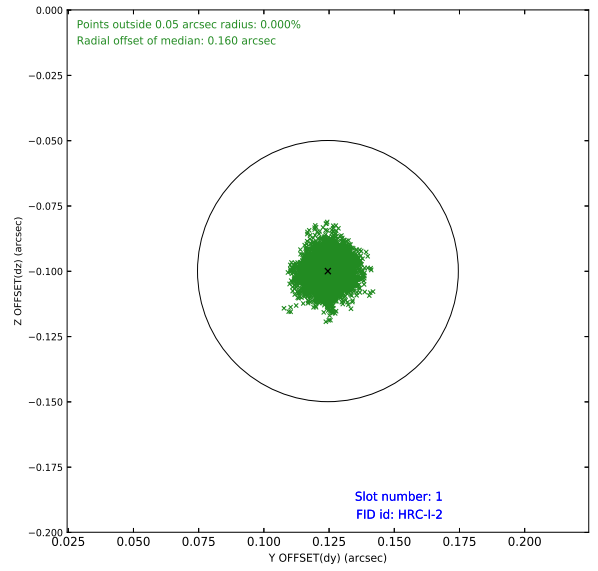
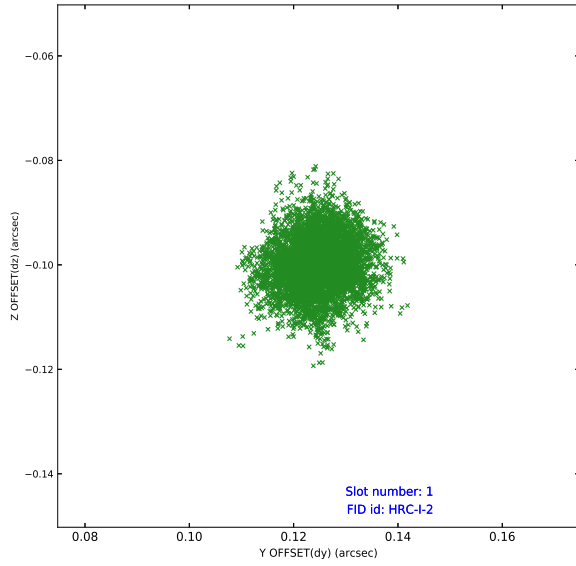


2.5 FID Slots

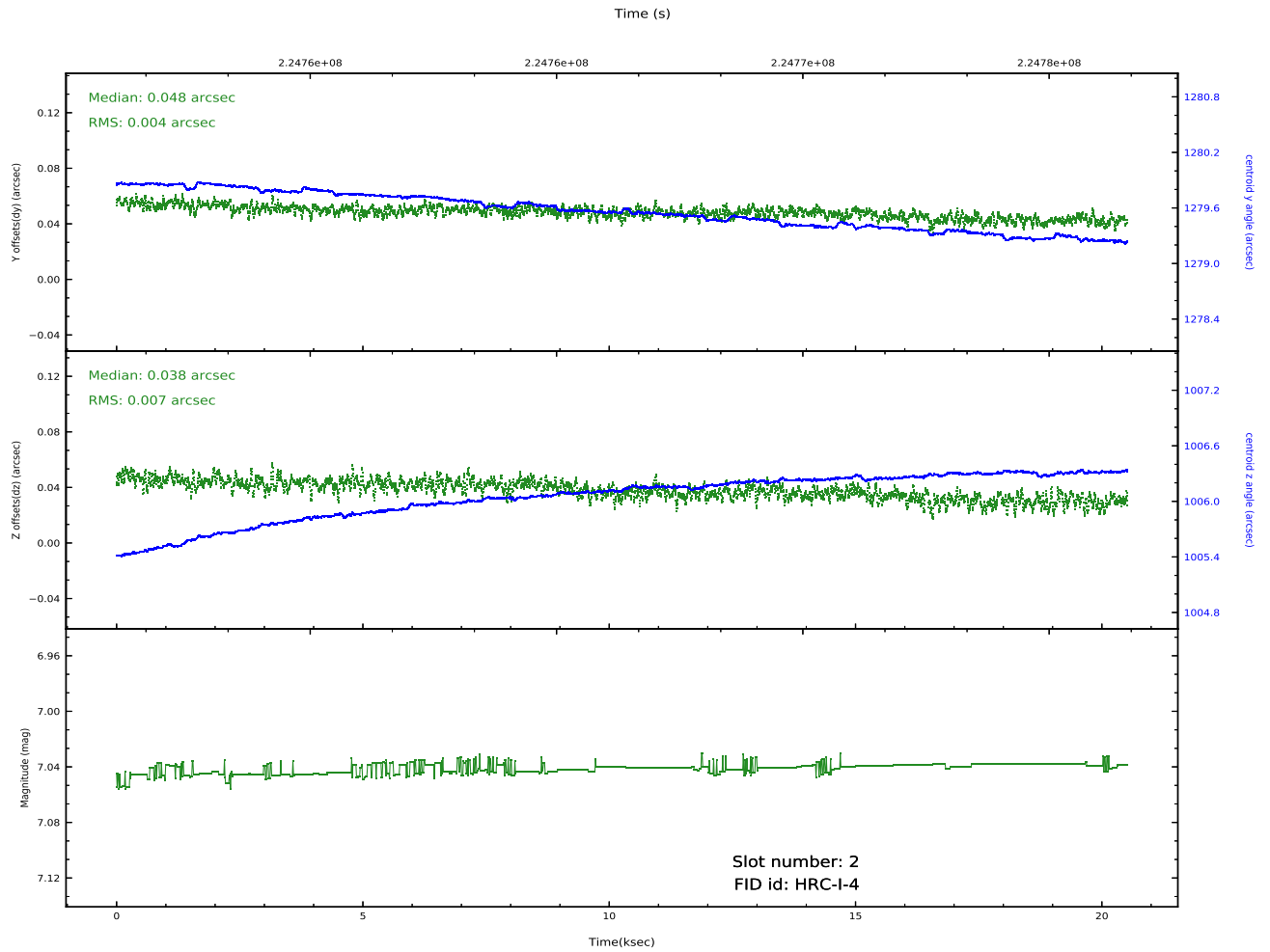
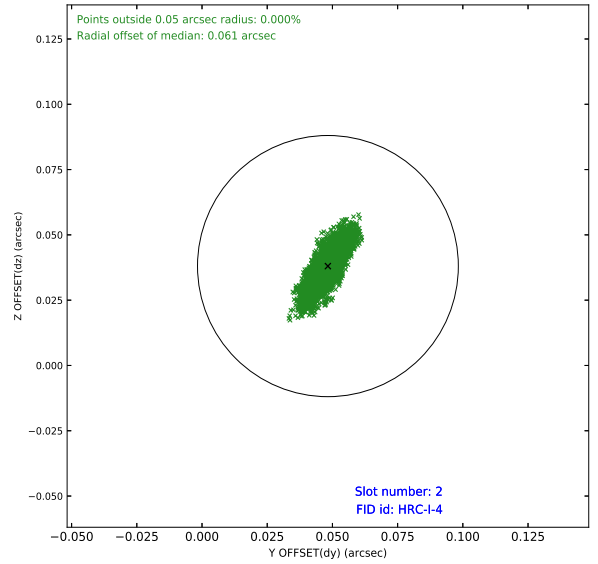
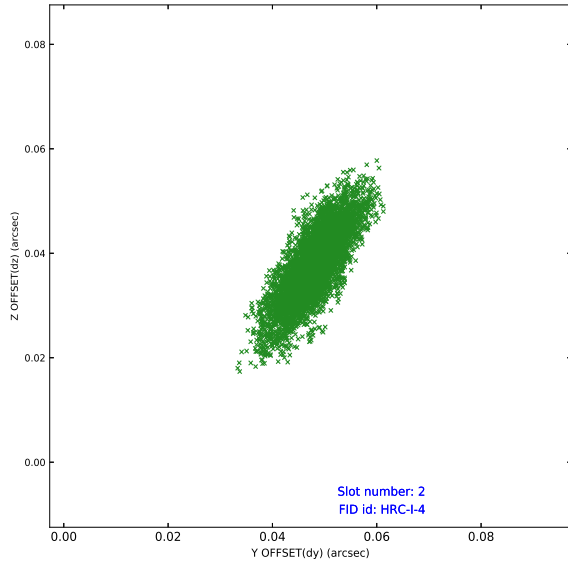
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2020.10.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.51563

A.2 Comments

The guide star in slot 3 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.