

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5974 - L2 Version 4
Chandra X-Ray Center

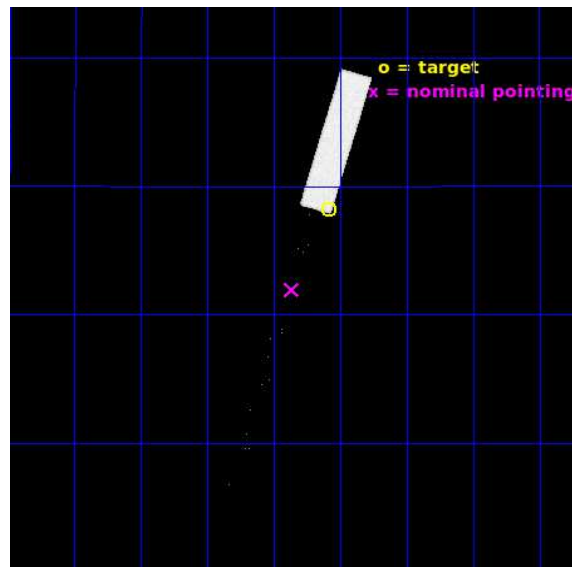
L2 Processing Date : Oct 6 2020

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1 Front

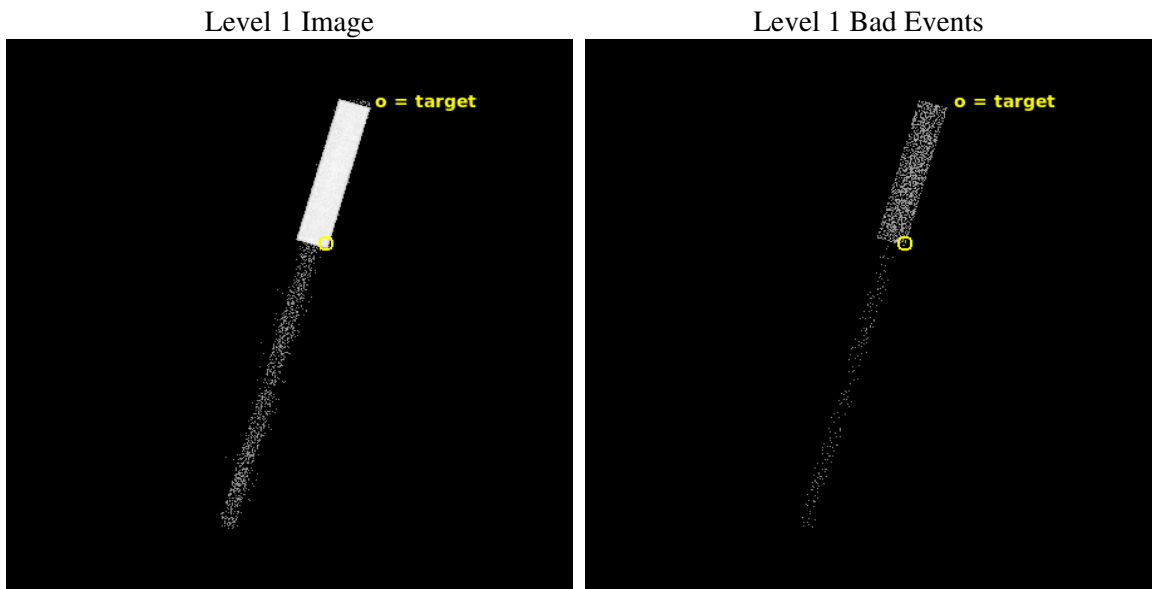
seq_num	290466	Sequence number
obs_id	5974	Observation id
title	AO6 Measurements of the optical/UV Transmission of the HRC and ACIS Filters.	Proposal title
observer	CXC Calibration	Principal investigator
object	Betelgeuse	Source name
ra_targ	88.792917	Observer's specified target RA [deg]
dec_targ	7.407056	Observer's specified target Dec [deg]
ra_nom	88.931955961232	Nominal RA [deg]
dec_nom	7.0974832275774	Nominal Dec [deg]
roll_nom	286.14961507104	Nominal Roll [deg]
revision	4	Processing version of data
ontime	2159.9313476682	[s]
livetime	2148.1559433108	Ontime multiplied by DTCOR
l2events	83682	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	2159.9313476682	[s]
caldsver	4.9.2	 	l1events	122382	Number of level 1 events
date	2020-10-06T14:41:47	Date and time of file creation			
revision	4	Processing version of data			

2.1.3 Events

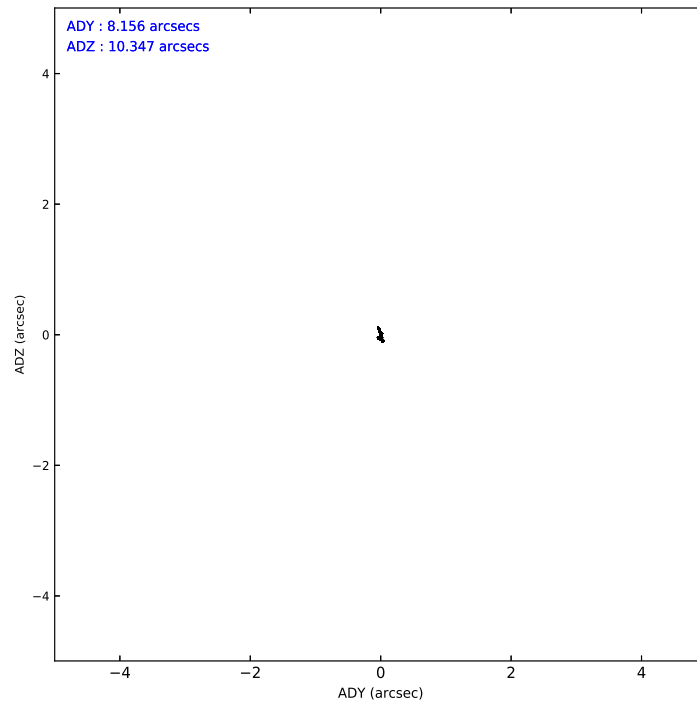
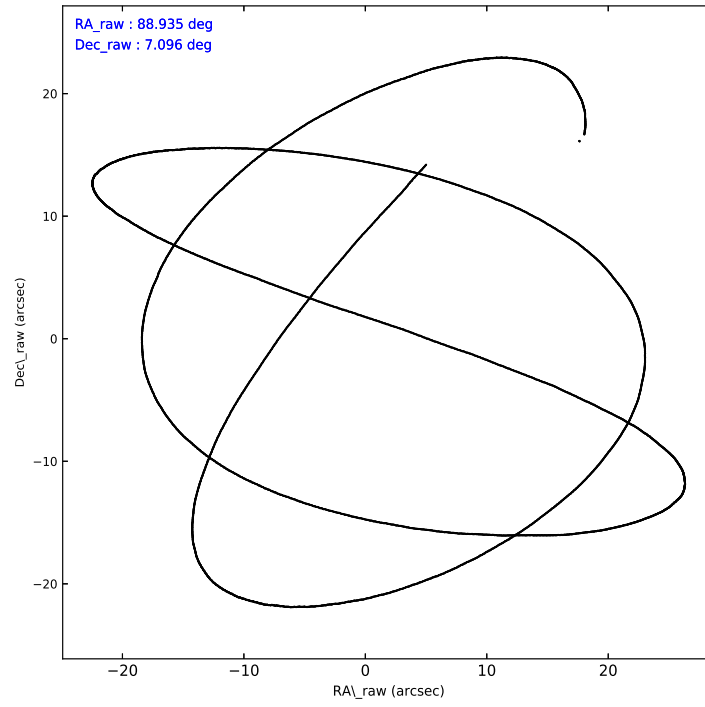
Level 1 Events

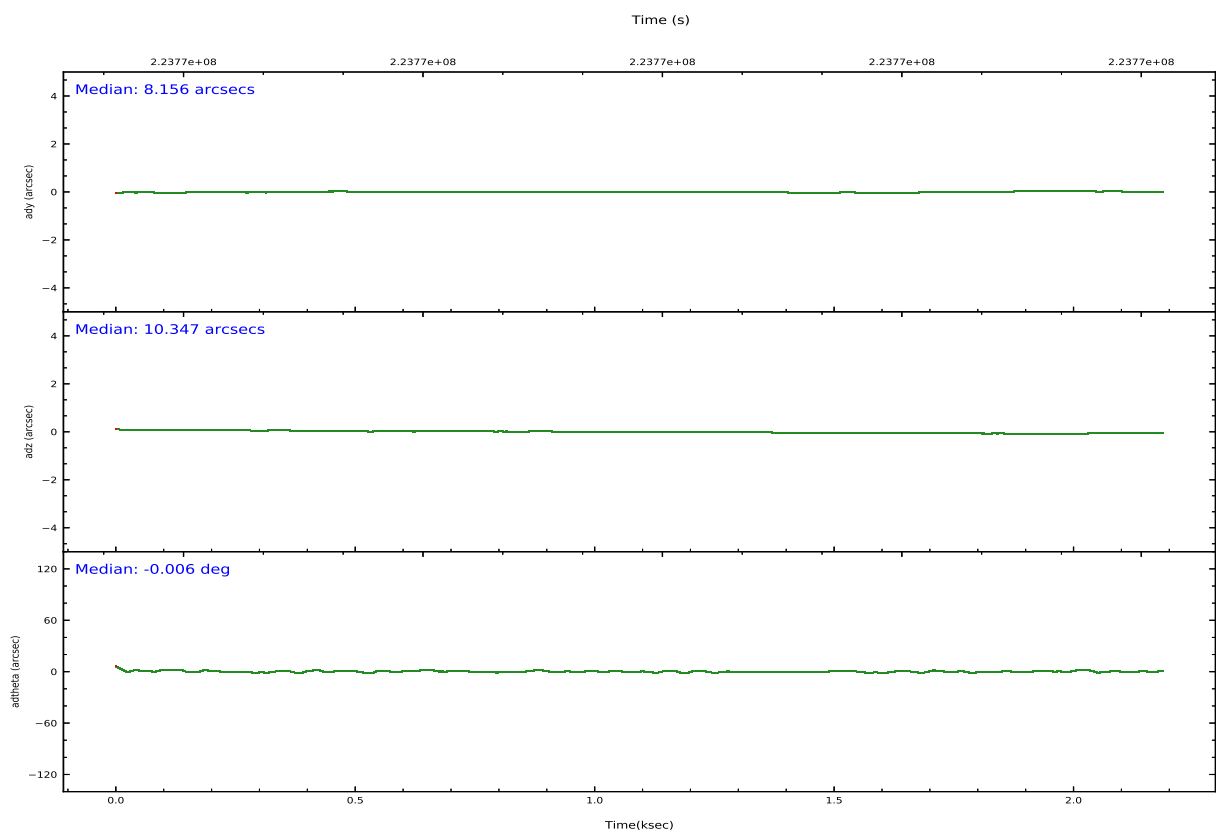
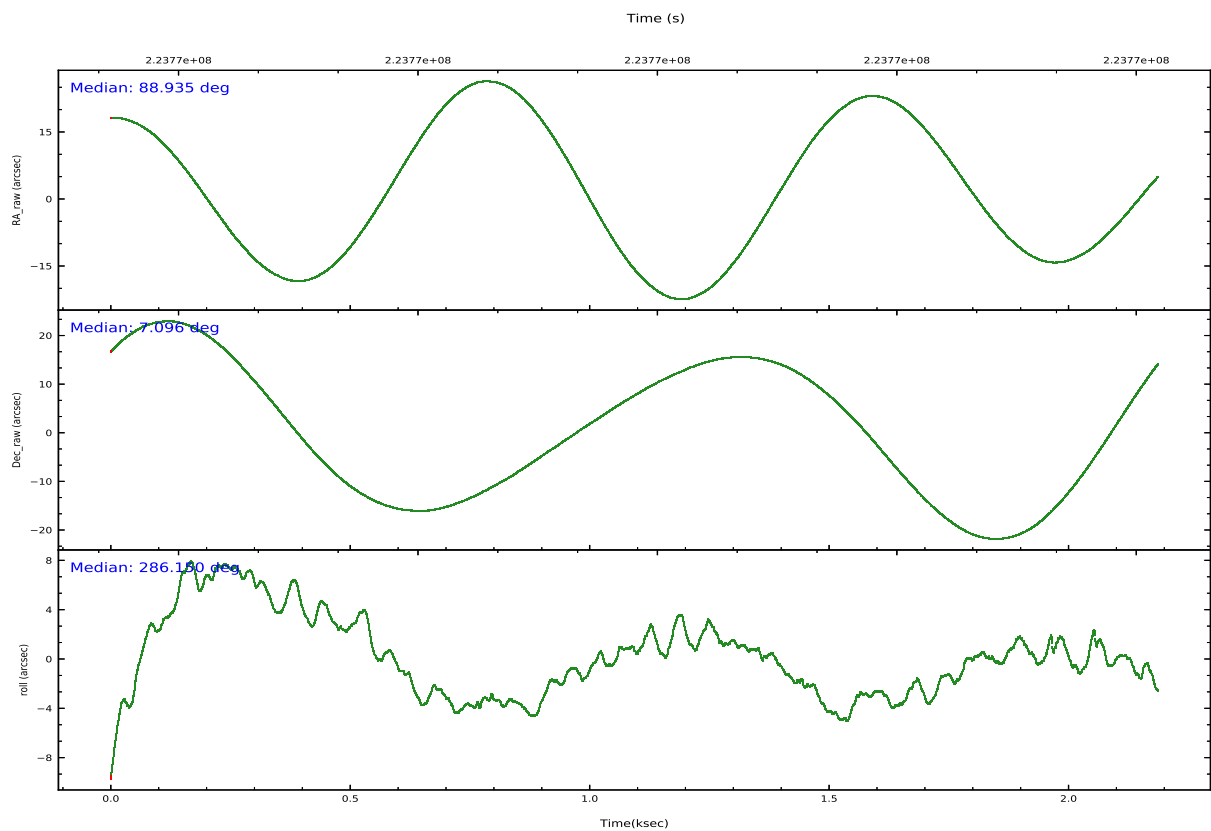
	segment 1	segment 2	segment 3
level 1 events	121082	639	661
rejected events	13523	630	646
rejected %	11%	98%	97%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	HRC	HRC	Obspar version number	8	8
Detector	HRC-S	HRC-S	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	OBSERVING	OBSERVING			
Observation mode	POINTING	POINTING			
[deg] Pointing RA	88.913895	88.93195596123201			
[deg] Pointing Dec	7.114860	7.0974832275774			
[deg] Pointing Roll	286.081297	286.14961507104			
[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)	223767547.184000	223767171.35276			
Observation start date	2005-02-02T21:38:03	2005-02-02T21:32:51			
[s] Observation end time (MET)	223769547.184000	223770562.56542			
Observation end date	2005-02-02T22:11:23	2005-02-02T22:29:22			

2.3 Aspect



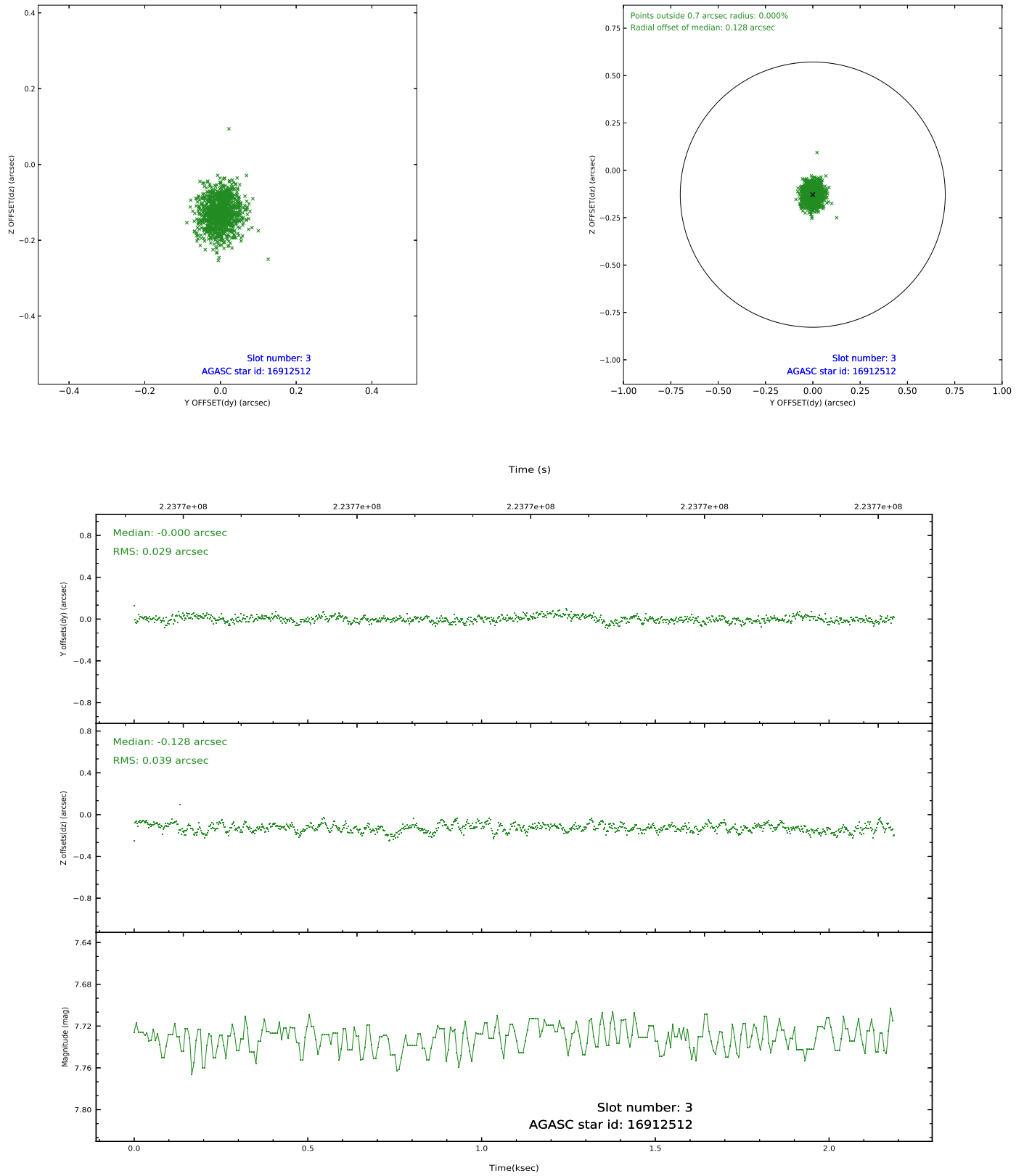


Slot Statistics

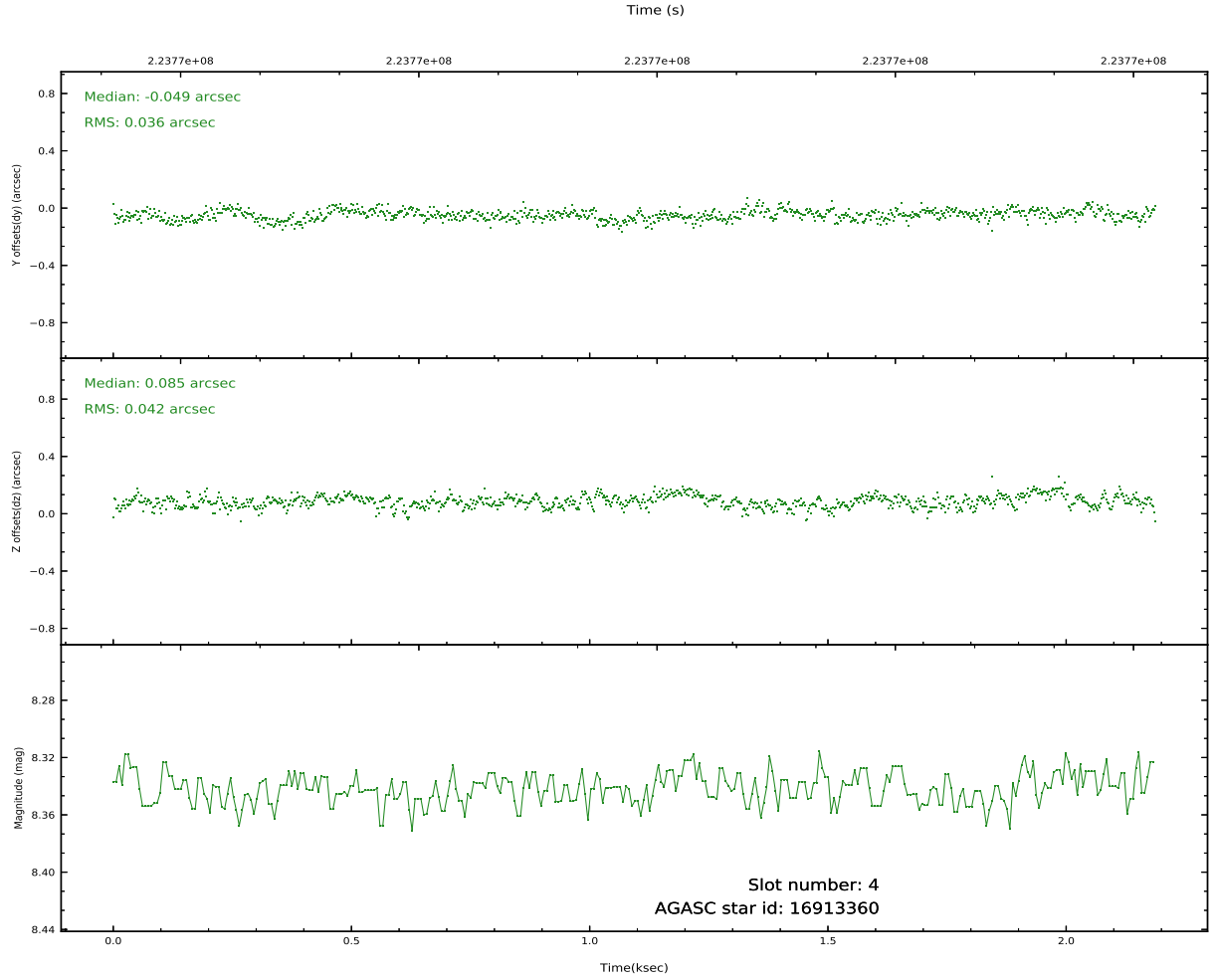
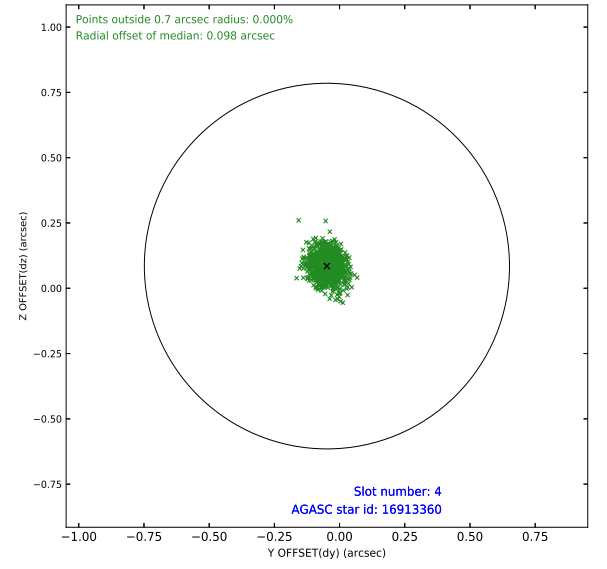
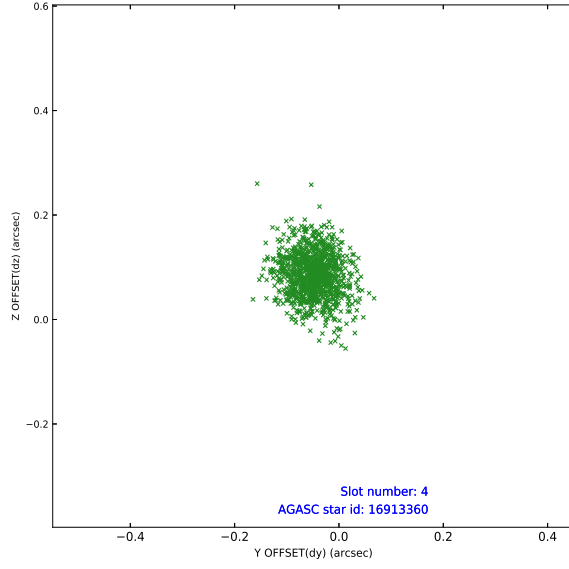
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		HRC-S-1	7.02	534	1.000	0.064	-0.223	0.006	0.012	0.000000	0.000000	-1162.37	-459
1	FID		HRC-S-3	7.02	534	1.000	0.068	-0.003	0.008	0.014	0.000000	0.000000	-1167.31	569
2	FID		HRC-S-4	6.98	534	1.000	0.256	-0.072	0.005	0.009	0.000000	0.000000	1233.85	574
3	GUIDE	used	16912512	7.73	1068	1.000	-0.000	-0.128	0.052	0.083	88.651510	7.129862	-311.42	-884
4	GUIDE	used	16913360	8.34	1068	1.000	-0.049	0.085	0.059	0.095	89.178373	7.247125	-196.08	1039
5	GUIDE	used	16917248	8.71	1067	1.000	0.129	0.155	0.072	0.116	89.306967	6.774731	1565.53	1013
6	GUIDE	used	16918912	8.64	1068	1.000	0.173	0.087	0.072	0.116	89.257075	6.922287	1007.41	988
7	GUIDE	used	93856056	7.97	1067	1.000	-0.253	-0.199	0.061	0.100	88.147460	7.547925	-2256.87	-2194

2.4 Star Slots

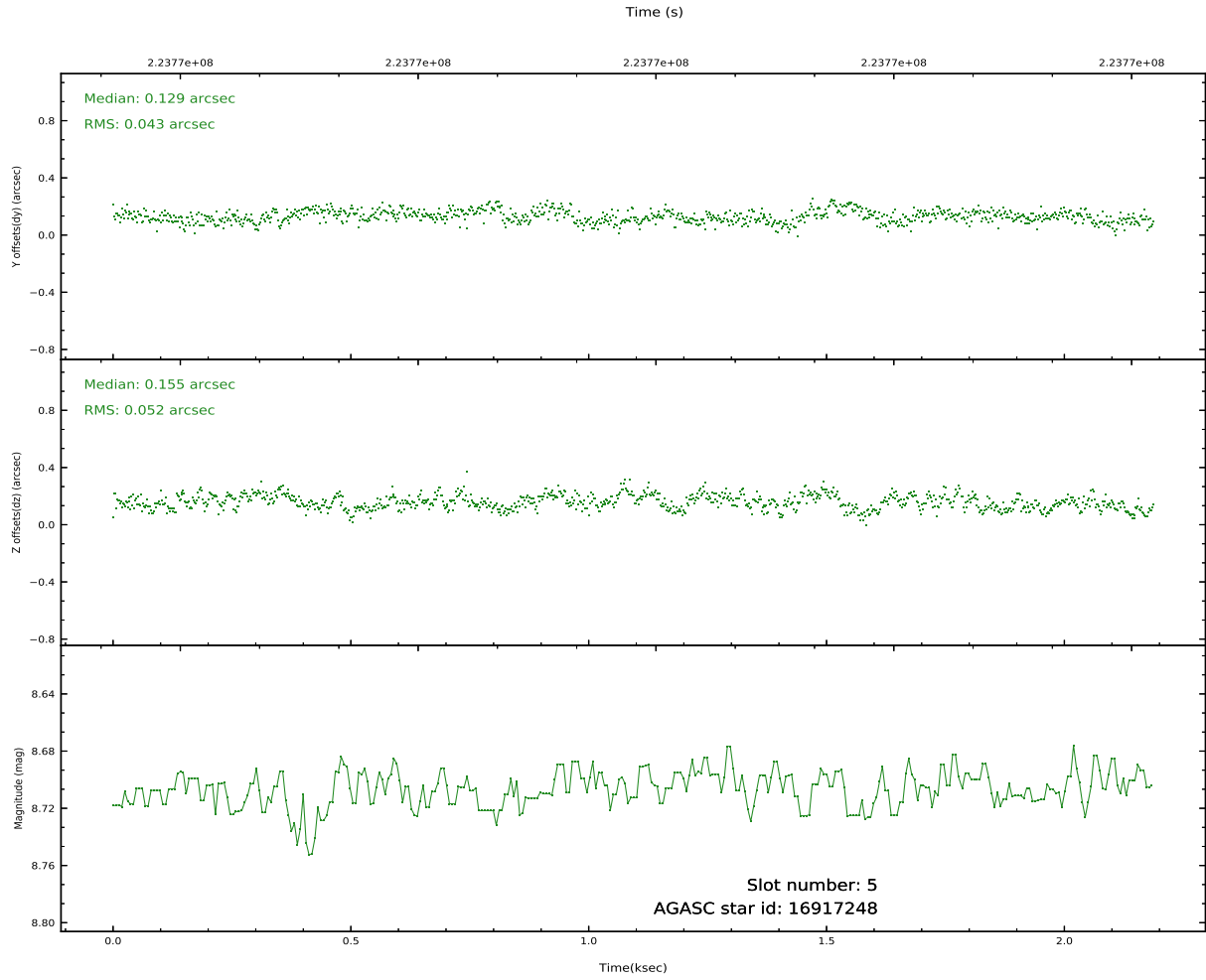
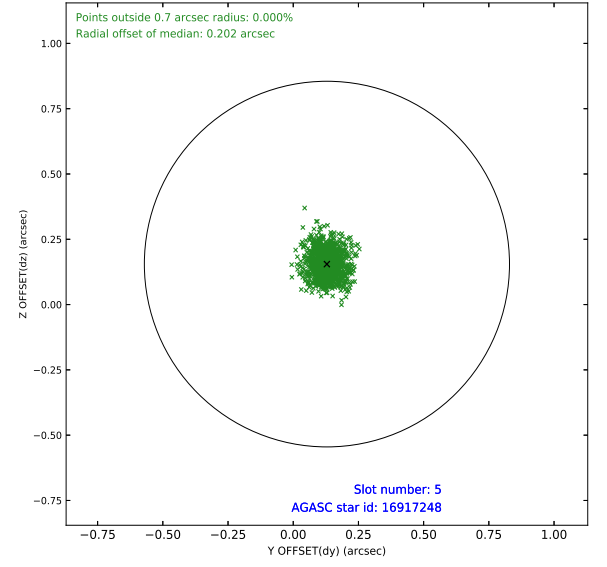
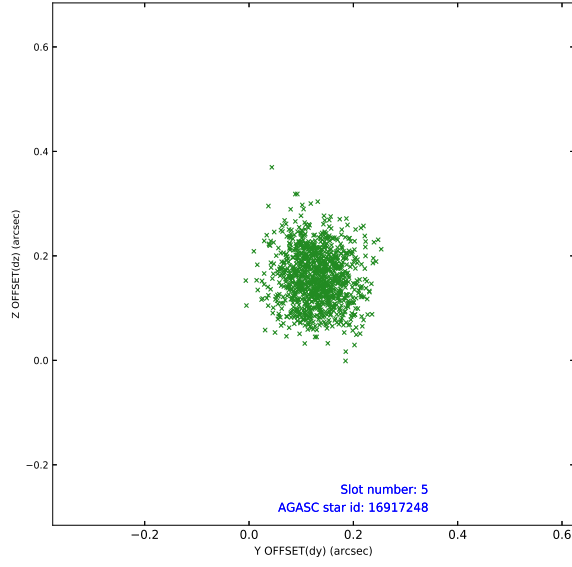
2.4.1 Slot 3



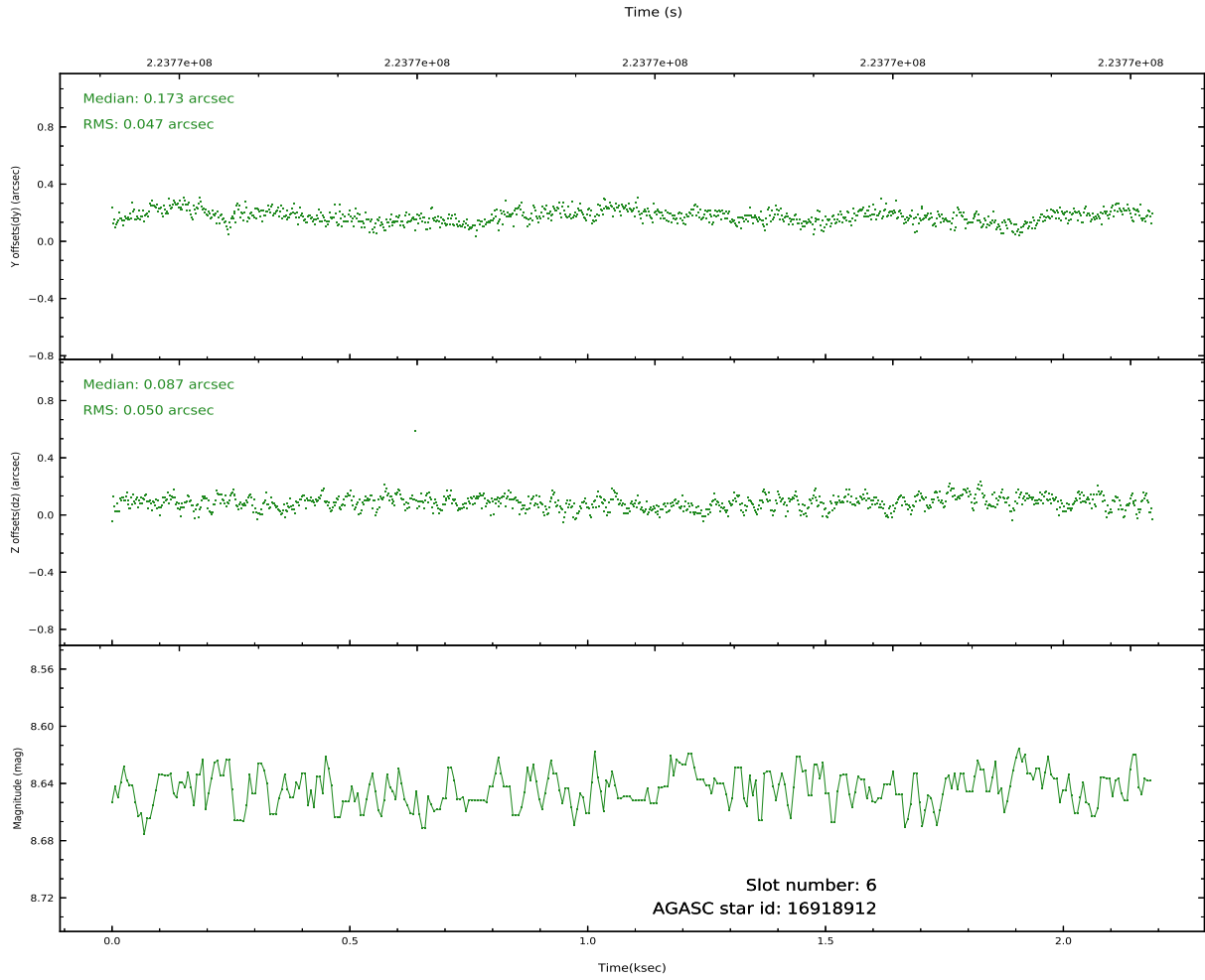
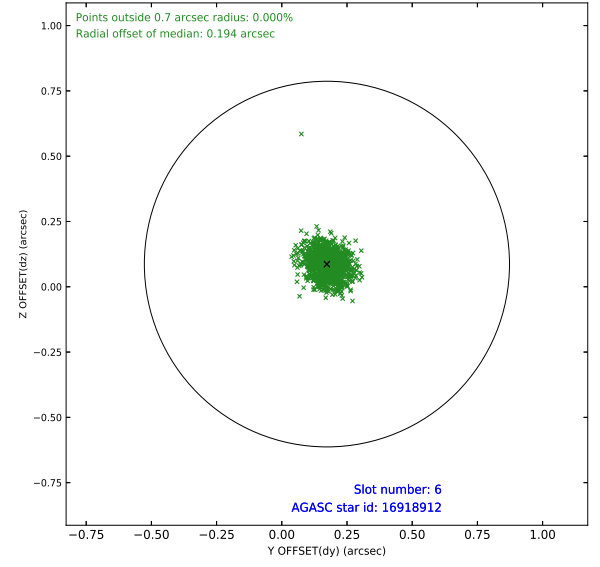
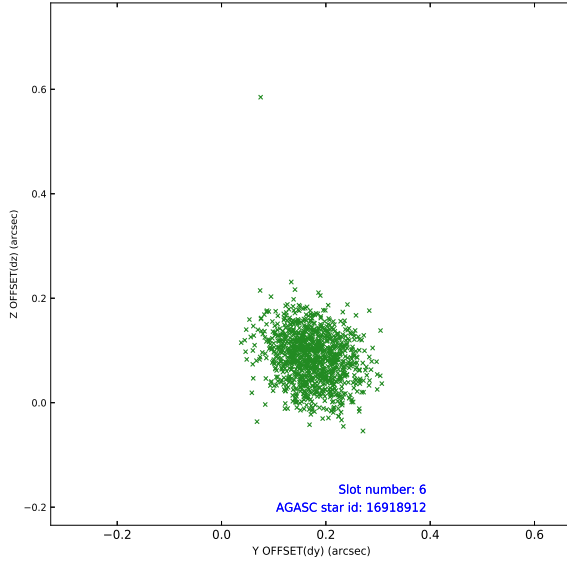
2.4.2 Slot 4



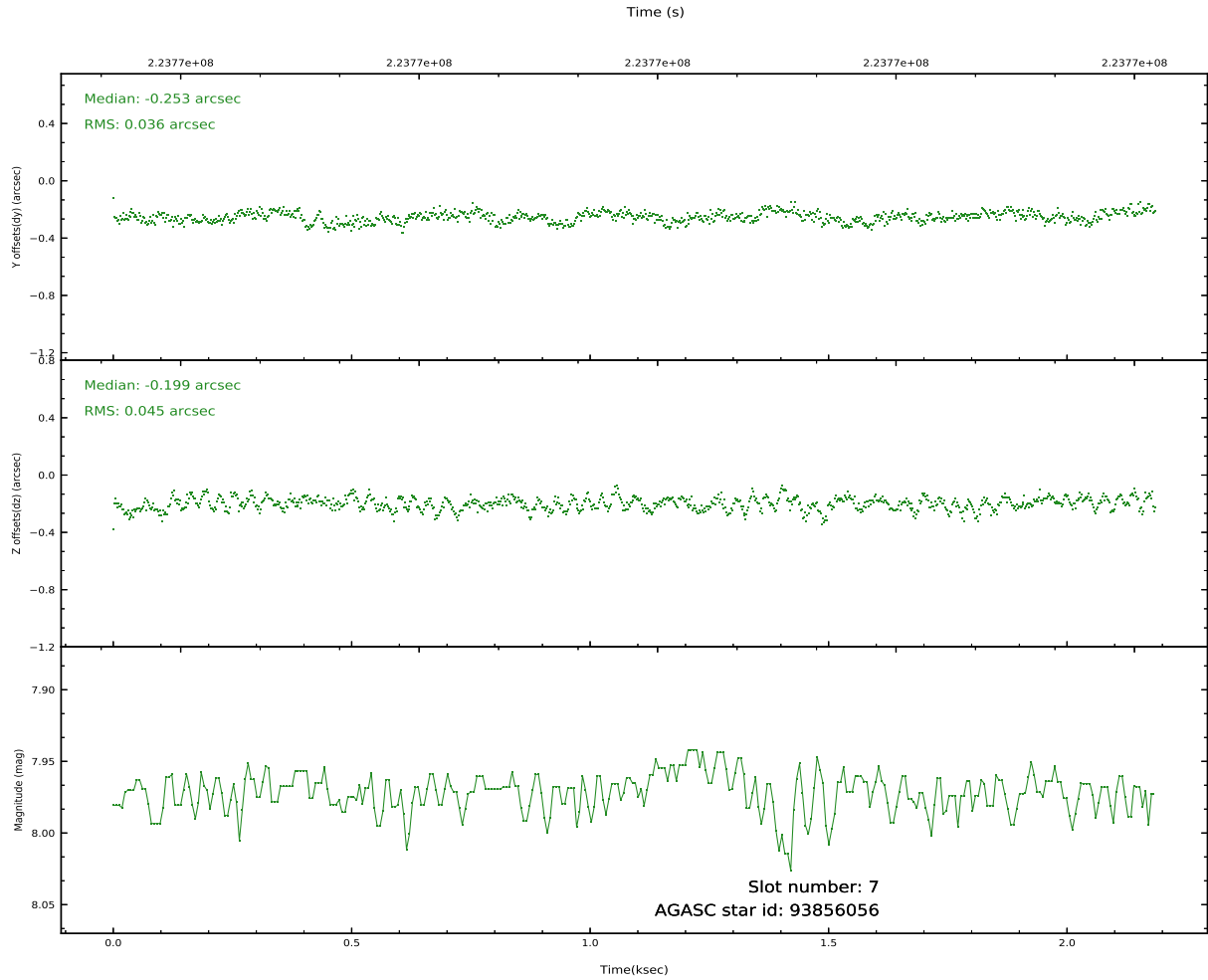
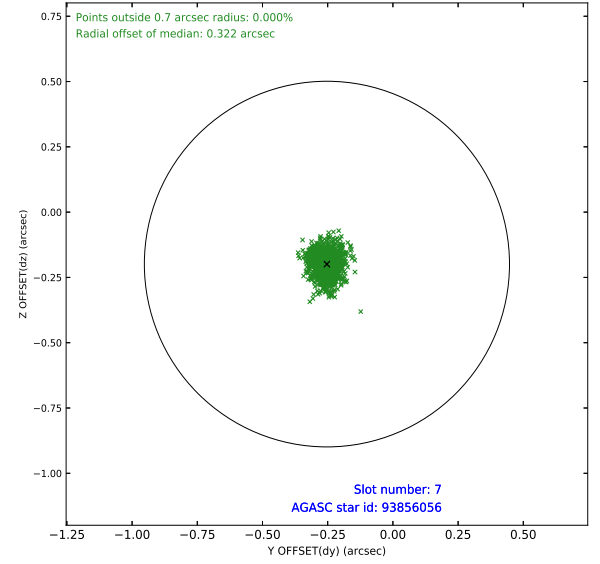
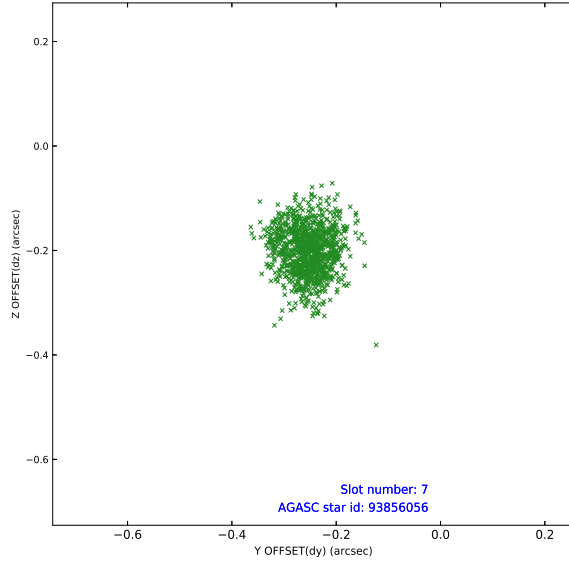
2.4.3 Slot 5



2.4.4 Slot 6

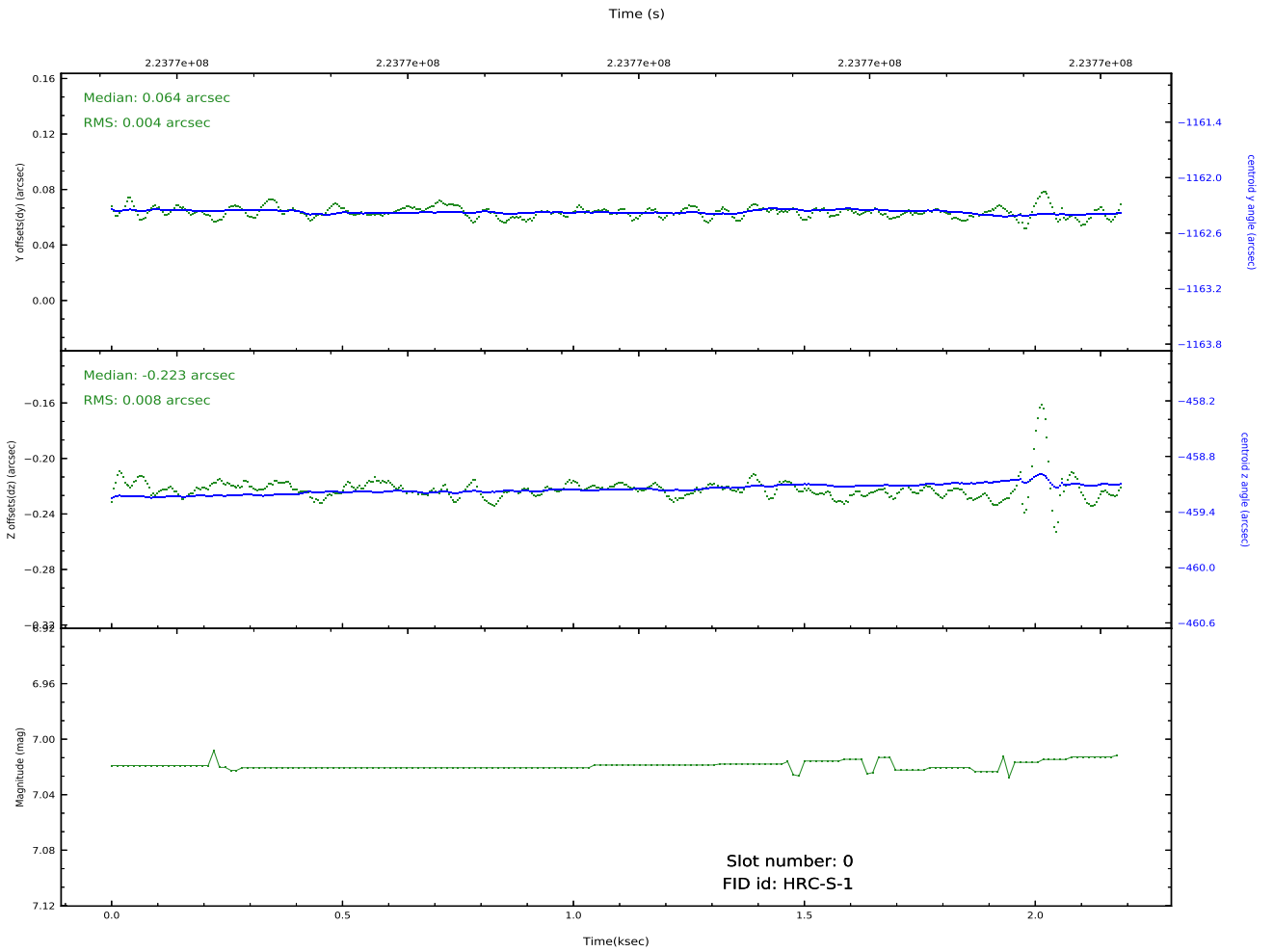
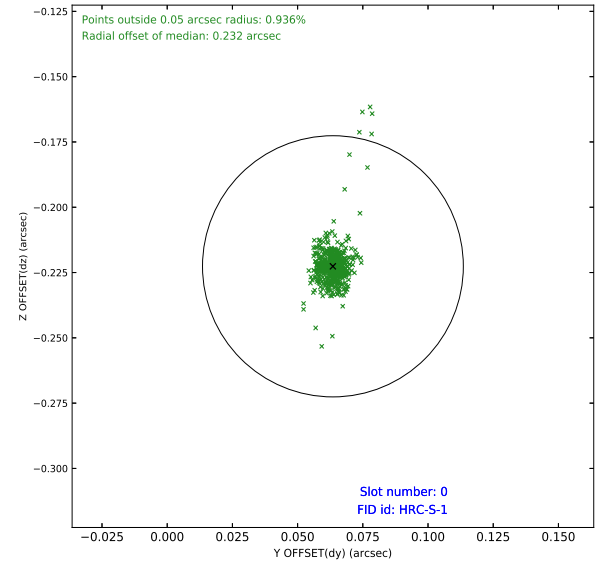
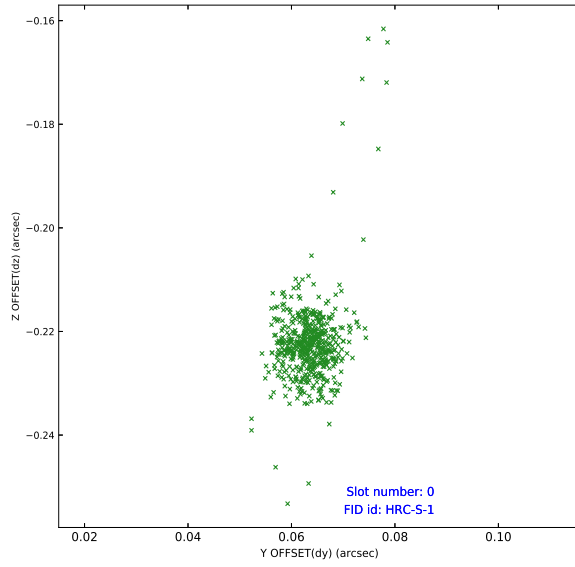


2.4.5 Slot 7

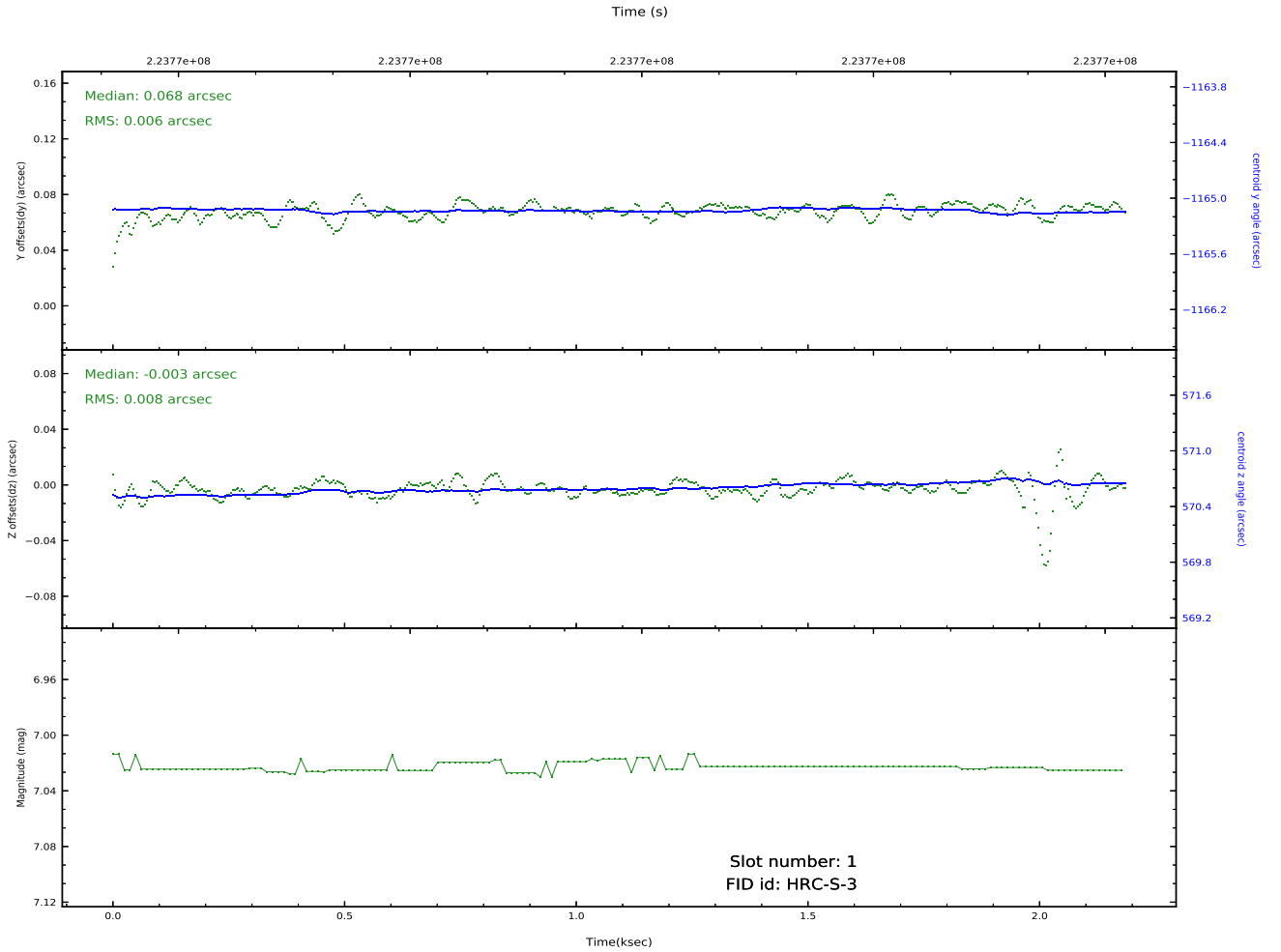
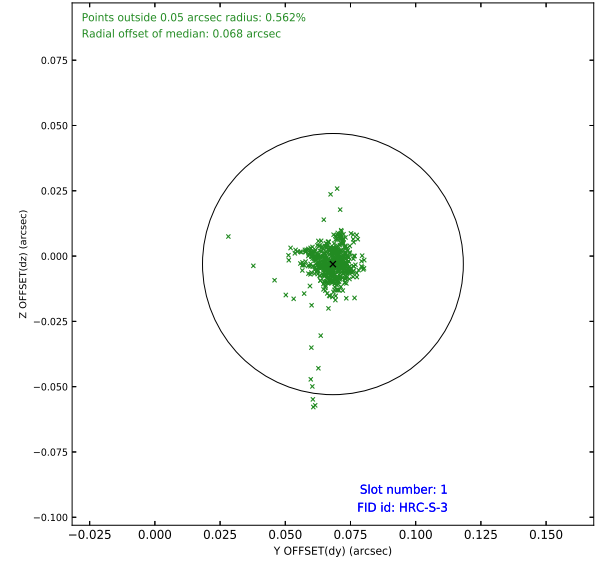
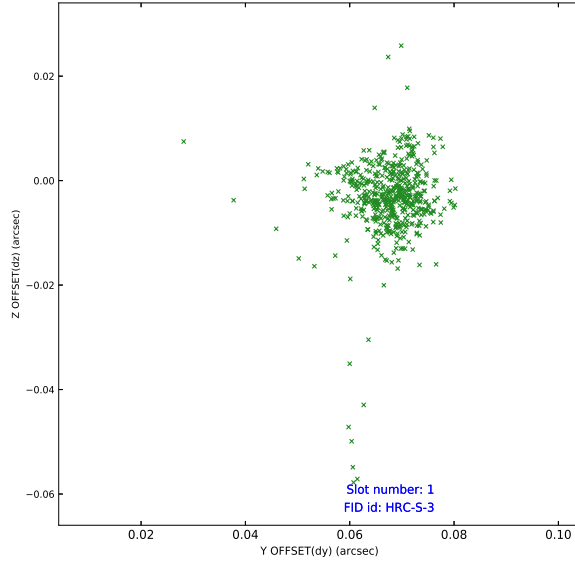


2.5 FID Slots

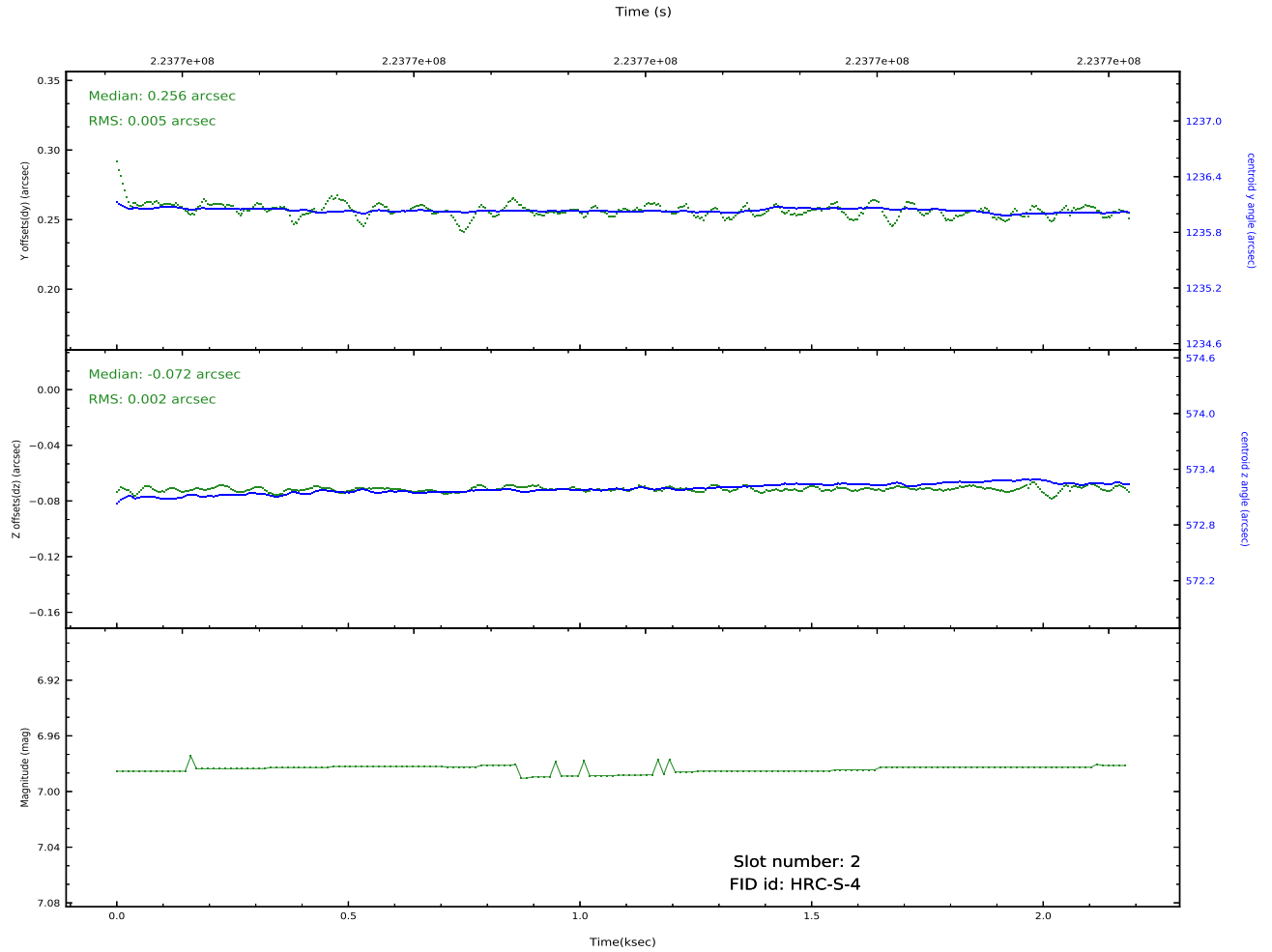
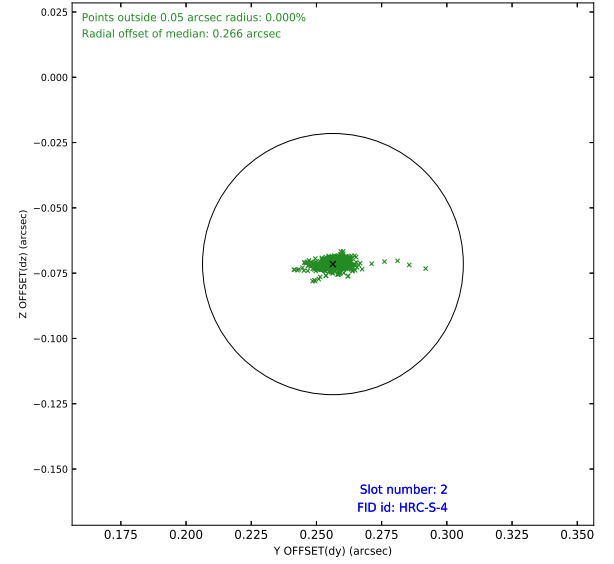
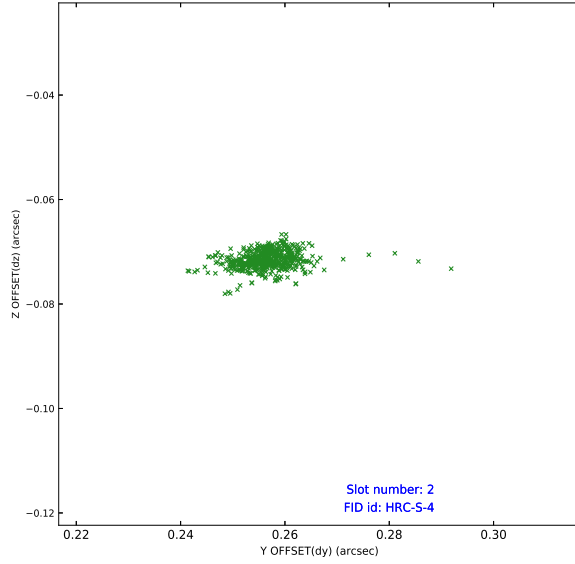
2.5.1 Slot 0



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	2.159931

A.2 Comments

Window constraint met.

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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.