

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5972 - L2 Version 4
Chandra X-Ray Center

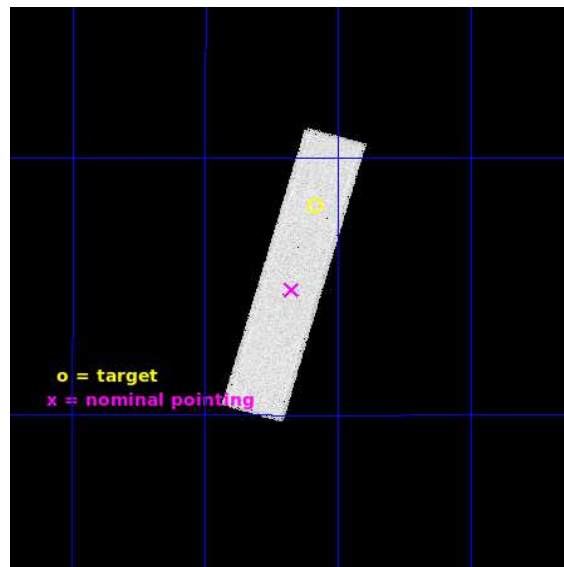
L2 Processing Date : Oct 6 2020

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1 Front

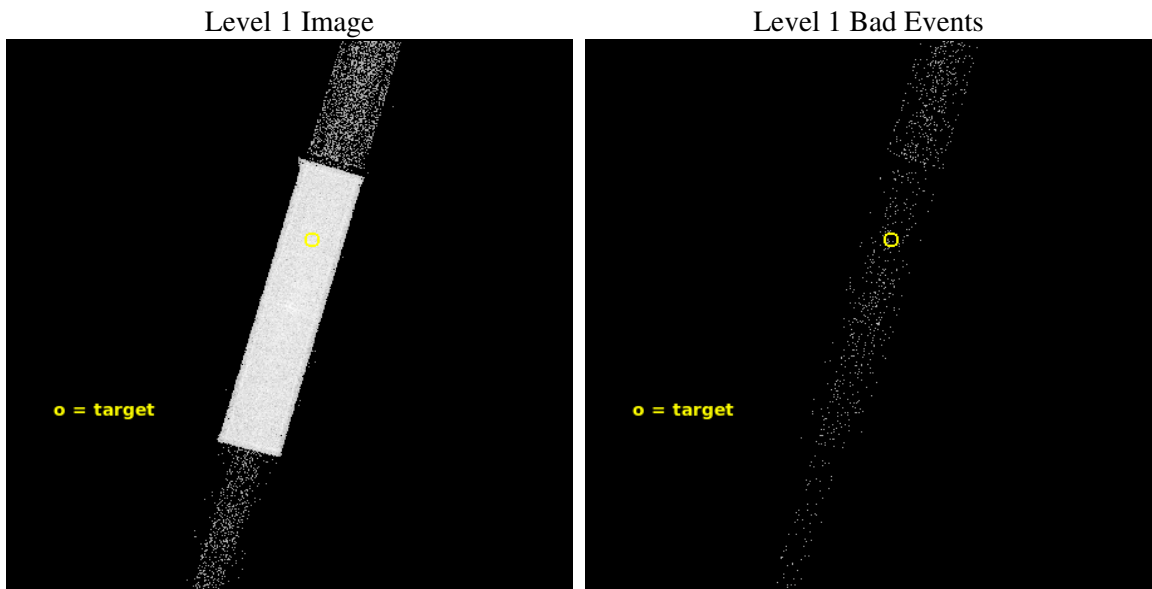
seq_num	290464	Sequence number
obs_id	5972	Observation id
title	AO6 Measurements of the optical/UV Transmission of the HRC and ACIS Filters.	Proposal title
observer	CXC Calibration	Principal investigator
object	Betelgeuse	Source name
ra_targ	88.792917	Observer's specified target RA [deg]
dec_targ	7.407056	Observer's specified target Dec [deg]
ra_nom	88.836856810174	Nominal RA [deg]
dec_nom	7.2437048382683	Nominal Dec [deg]
roll_nom	286.0342599048	Nominal Roll [deg]
revision	4	Processing version of data
ontime	2161.9813477695	[s]
livetime	2148.6601681343	Ontime multiplied by DTCOR
l2events	87860	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	2161.9813477695	[s]
caldsver	4.9.2	 	l1events	128957	Number of level 1 events
date	2020-10-06T14:45:40	Date and time of file creation			
revision	4	Processing version of data			

2.1.3 Events

Level 1 Events

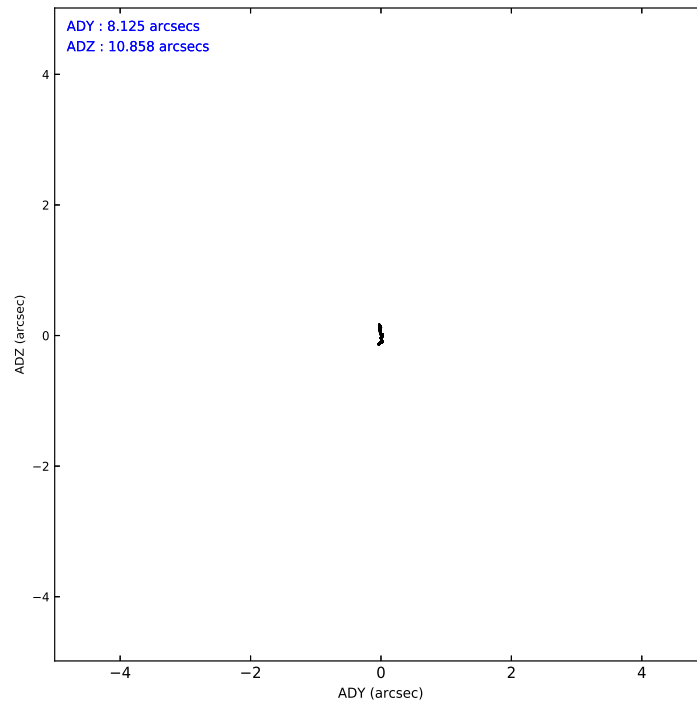
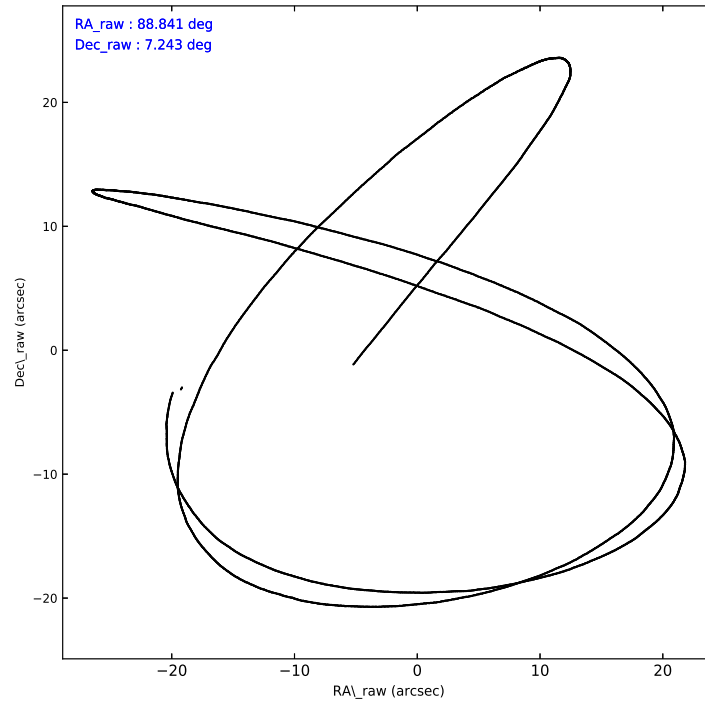
	segment 1	segment 2	segment 3
level 1 events	5237	122292	1428
rejected events	5212	11868	1428
rejected %	99%	9%	100%

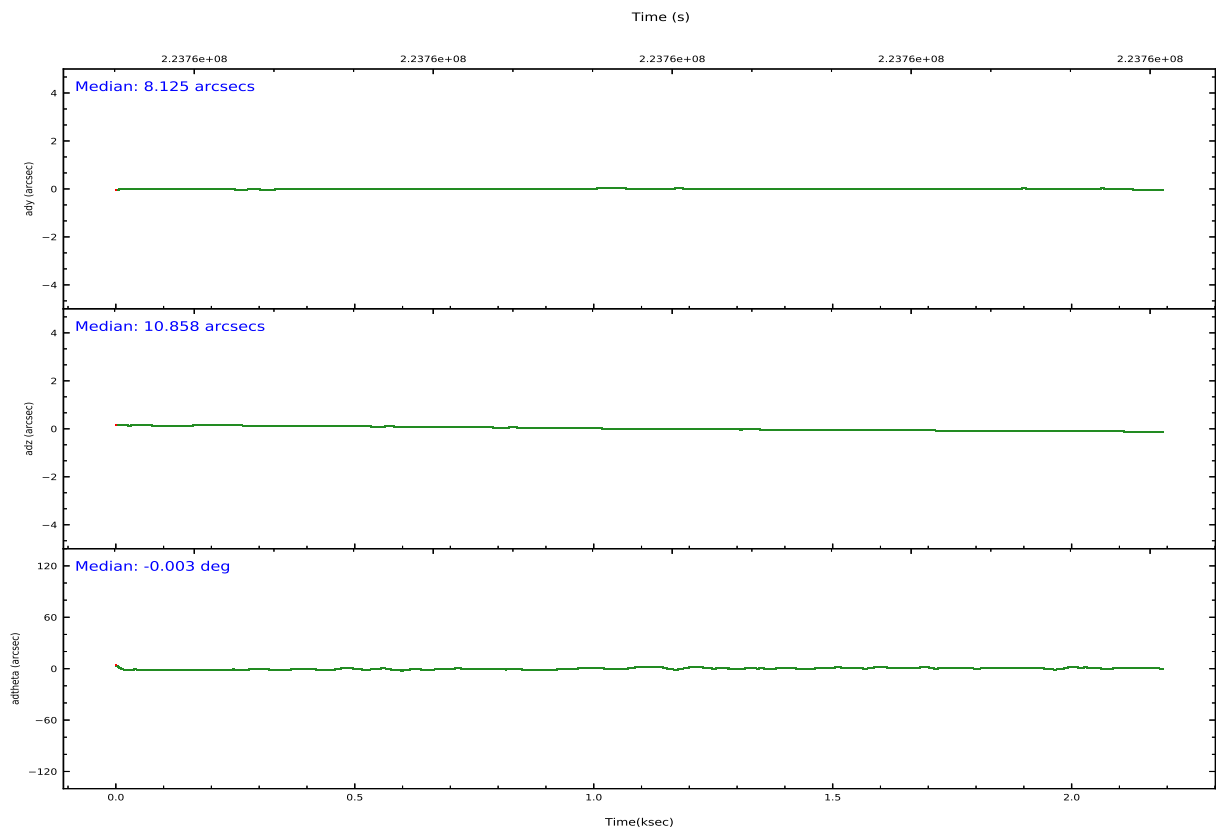
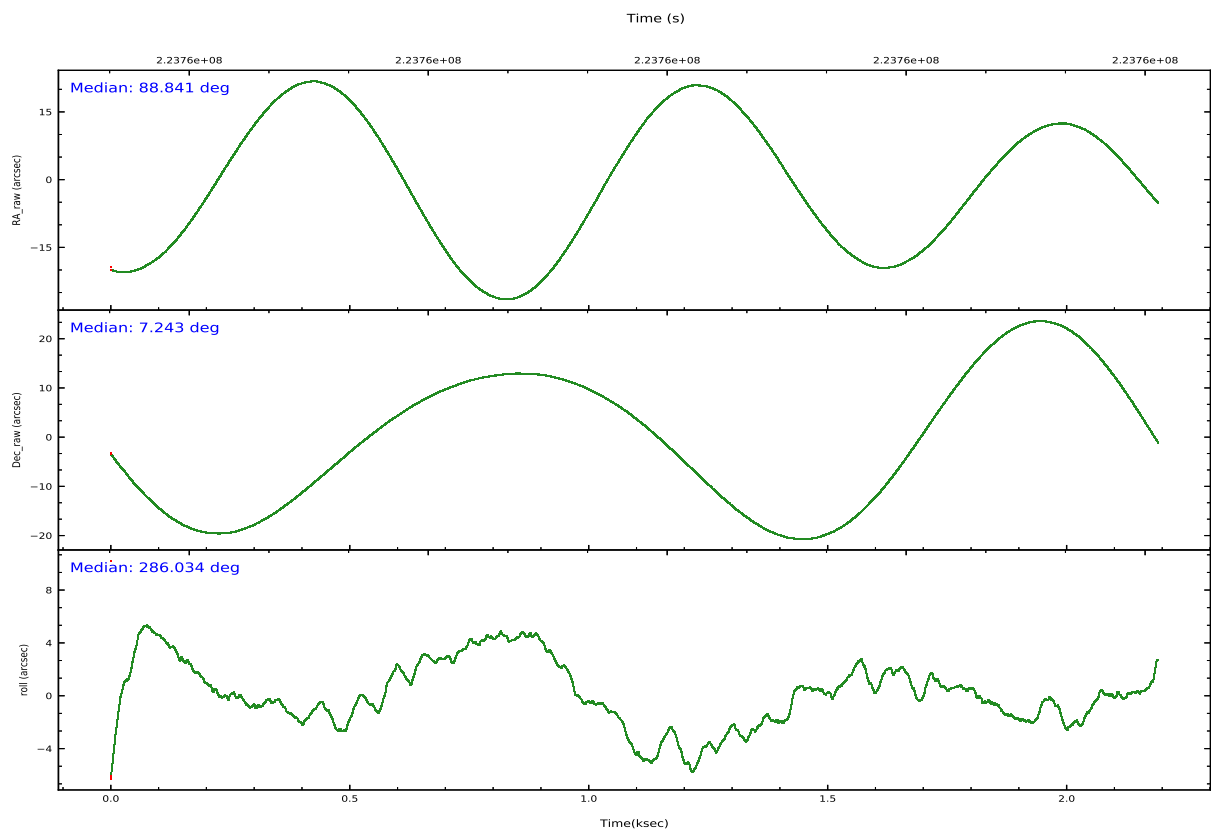
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	HRC	HRC
Detector	HRC-S	HRC-S
Grating	NONE	NONE
Data mode	OBSERVING	OBSERVING
Observation mode	POINTING	POINTING
[deg] Pointing RA	88.818602	88.836856810174
[deg] Pointing Dec	7.261097	7.2437048382683
[deg] Pointing Roll	285.969445	286.0342599048
[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)	223762527.184000	223762150.90254
Observation start date	2005-02-02T20:14:23	2005-02-02T20:09:10
[s] Observation end time (MET)	223764527.184000	223764661.12765
Observation end date	2005-02-02T20:47:43	2005-02-02T20:51:01

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

2.3 Aspect



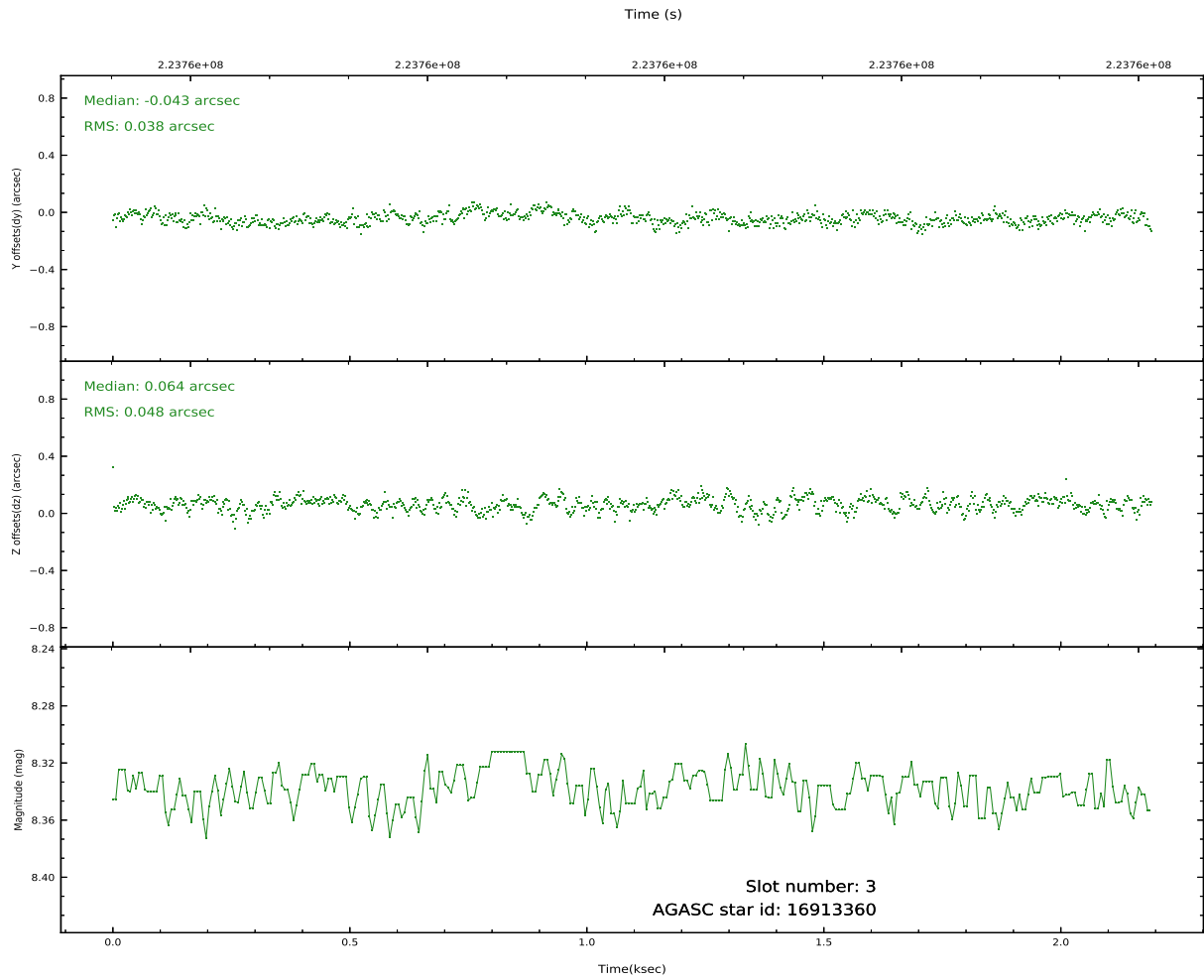
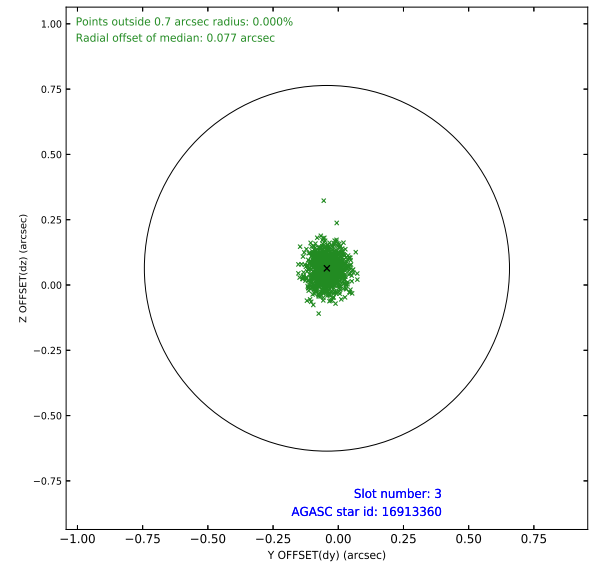
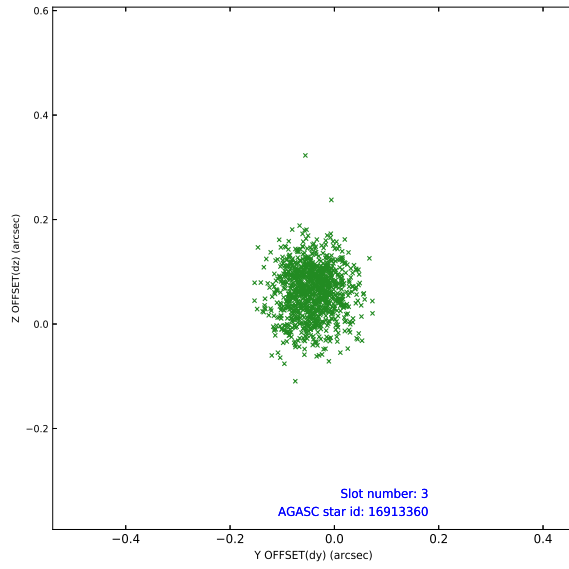


Slot Statistics

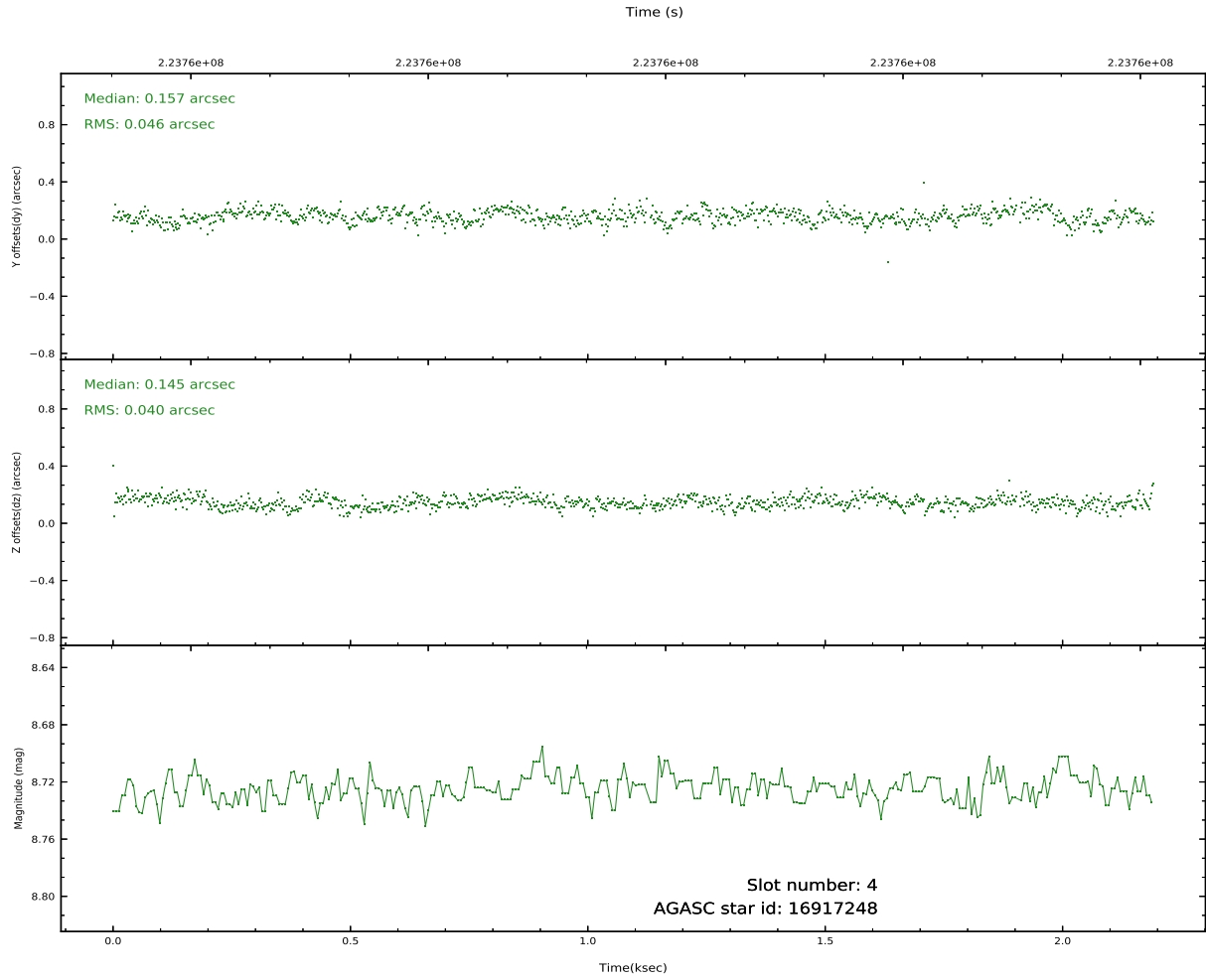
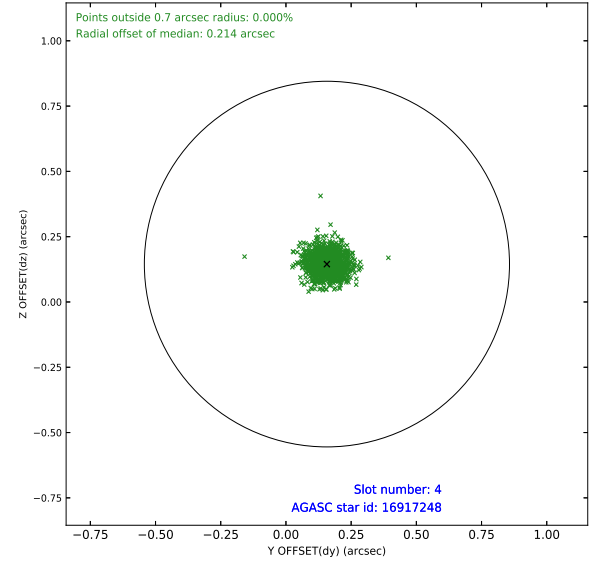
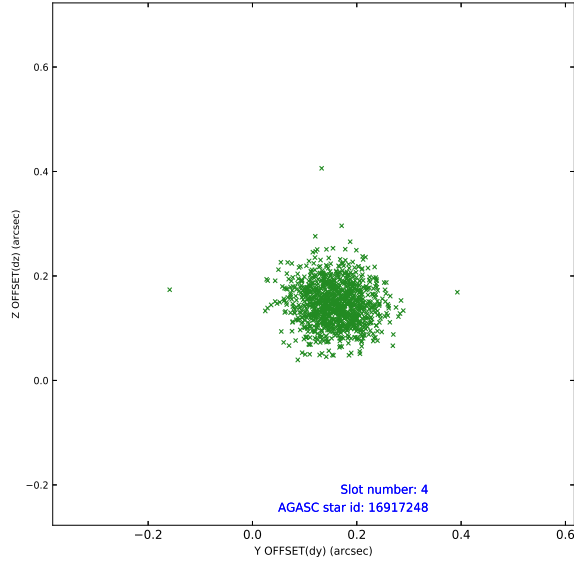
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		HRC-S-2	7.01	535	1.000	0.132	-0.193	0.010	0.016	0.000000	0.000000	1237.38	-452
1	FID		HRC-S-3	7.02	535	1.000	0.045	-0.100	0.005	0.010	0.000000	0.000000	-1162.79	569
2	FID		HRC-S-4	6.99	535	1.000	0.228	-0.003	0.010	0.017	0.000000	0.000000	1233.89	573
3	GUIDE	used	16913360	8.34	1070	1.000	-0.043	0.064	0.065	0.105	89.178373	7.247125	401.59	1220
4	GUIDE	used	16917248	8.72	1064	1.000	0.157	0.145	0.064	0.104	89.306967	6.774731	2163.49	1197
5	GUIDE	used	16918912	8.65	1070	1.000	0.206	0.058	0.064	0.103	89.257075	6.922287	1605.48	1171
6	GUIDE	used	93854800	7.58	1070	1.000	-0.149	-0.127	0.059	0.095	88.376308	7.655454	-1797.94	-1126
7	GUIDE	used	93856056	7.98	1069	1.000	-0.172	-0.135	0.063	0.101	88.147460	7.547925	-1654.98	-2020

2.4 Star Slots

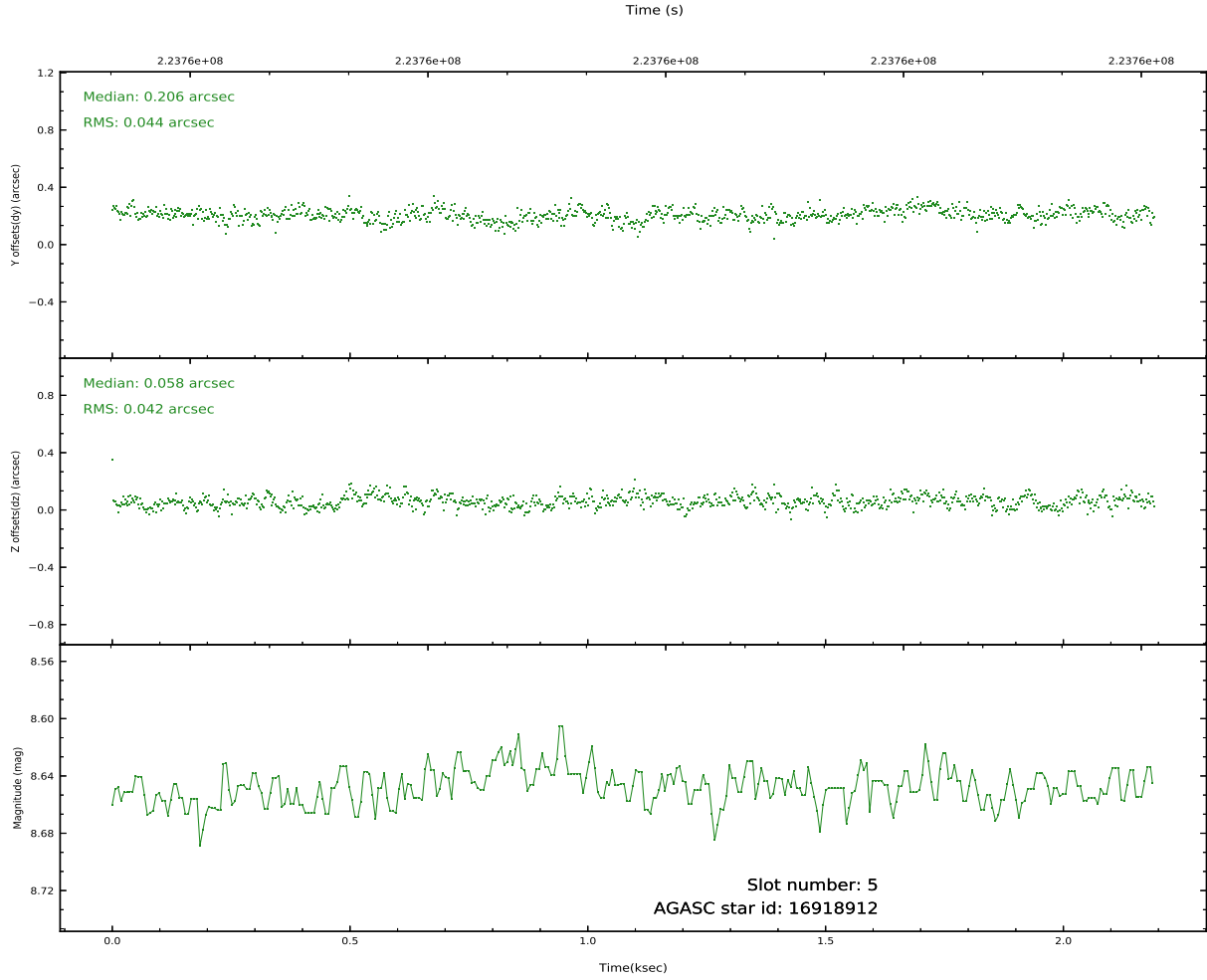
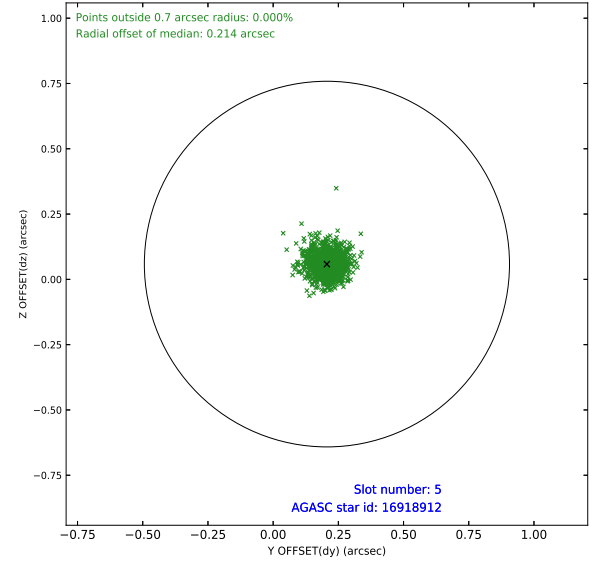
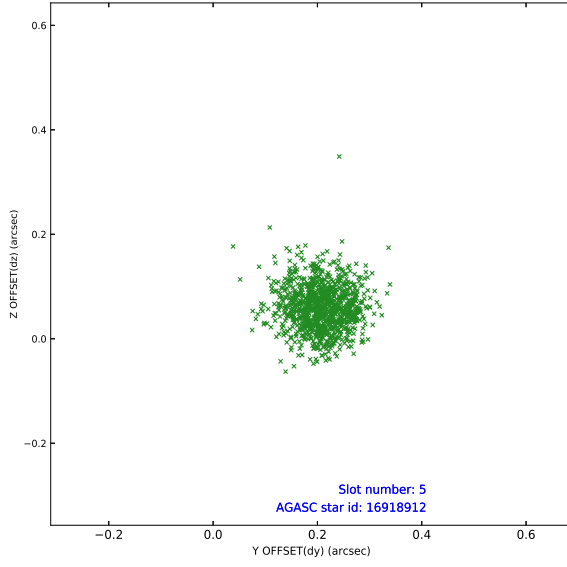
2.4.1 Slot 3



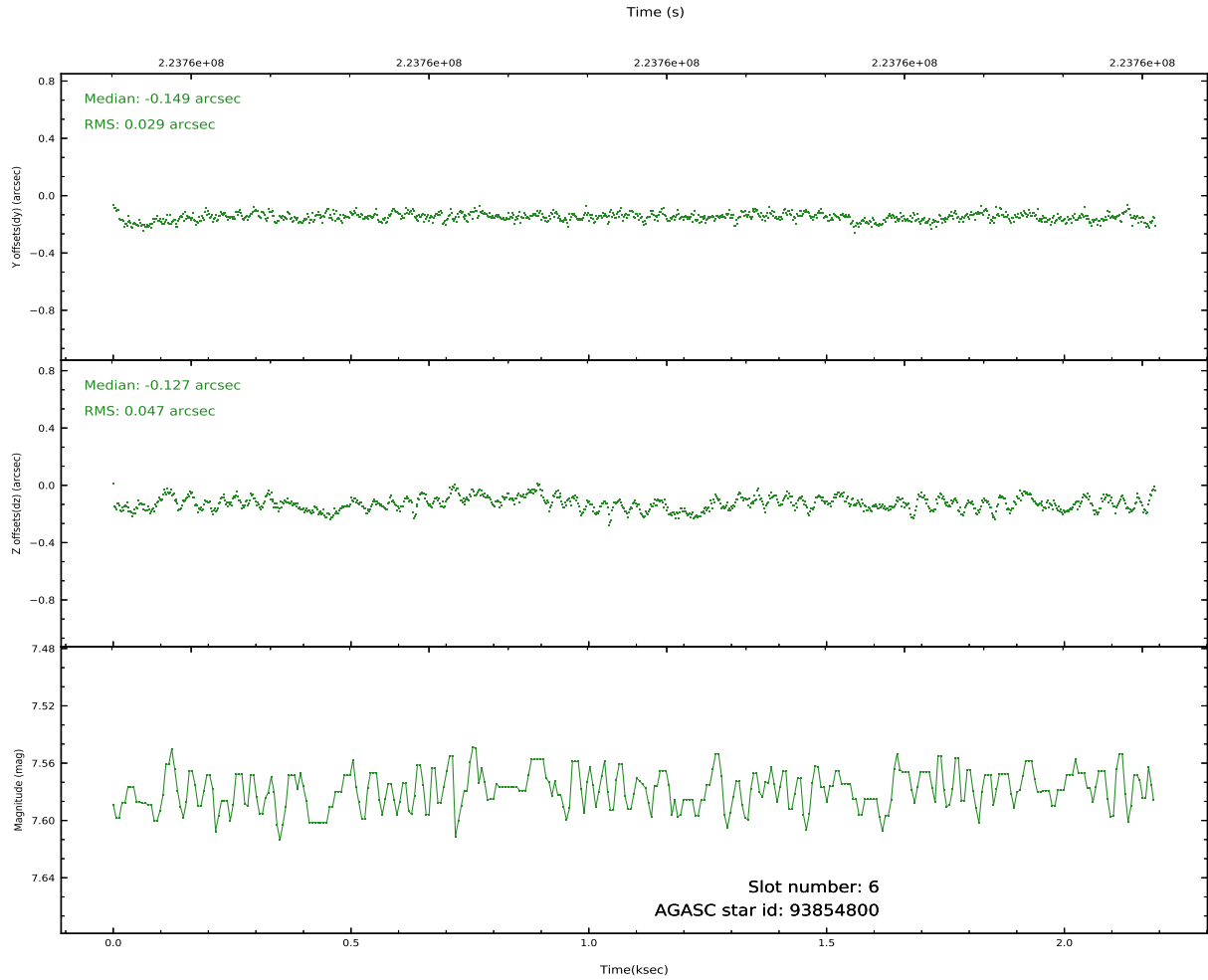
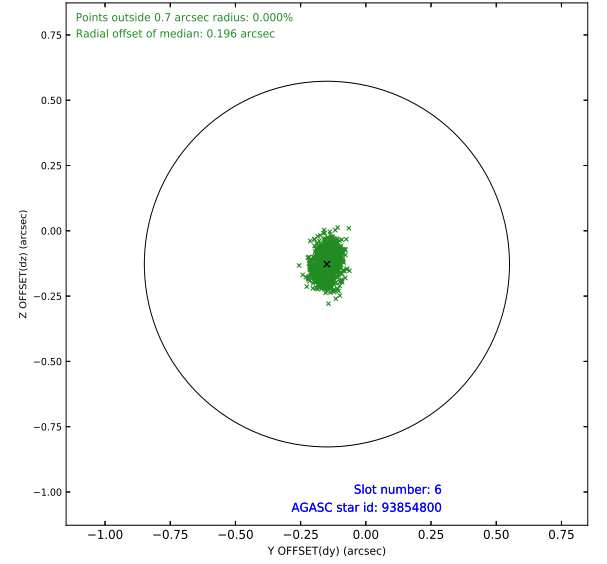
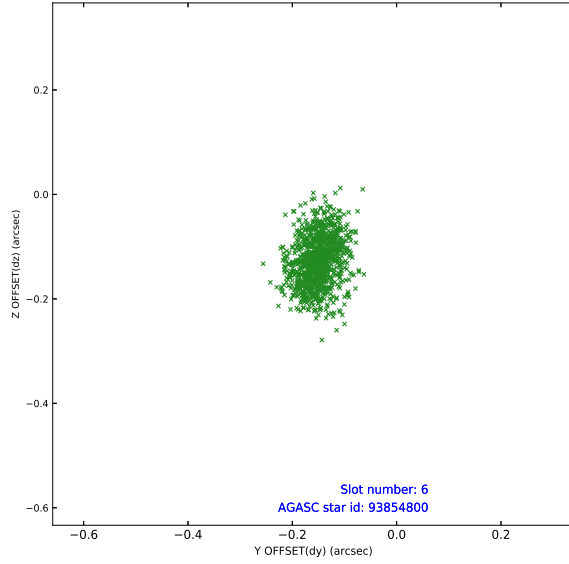
2.4.2 Slot 4



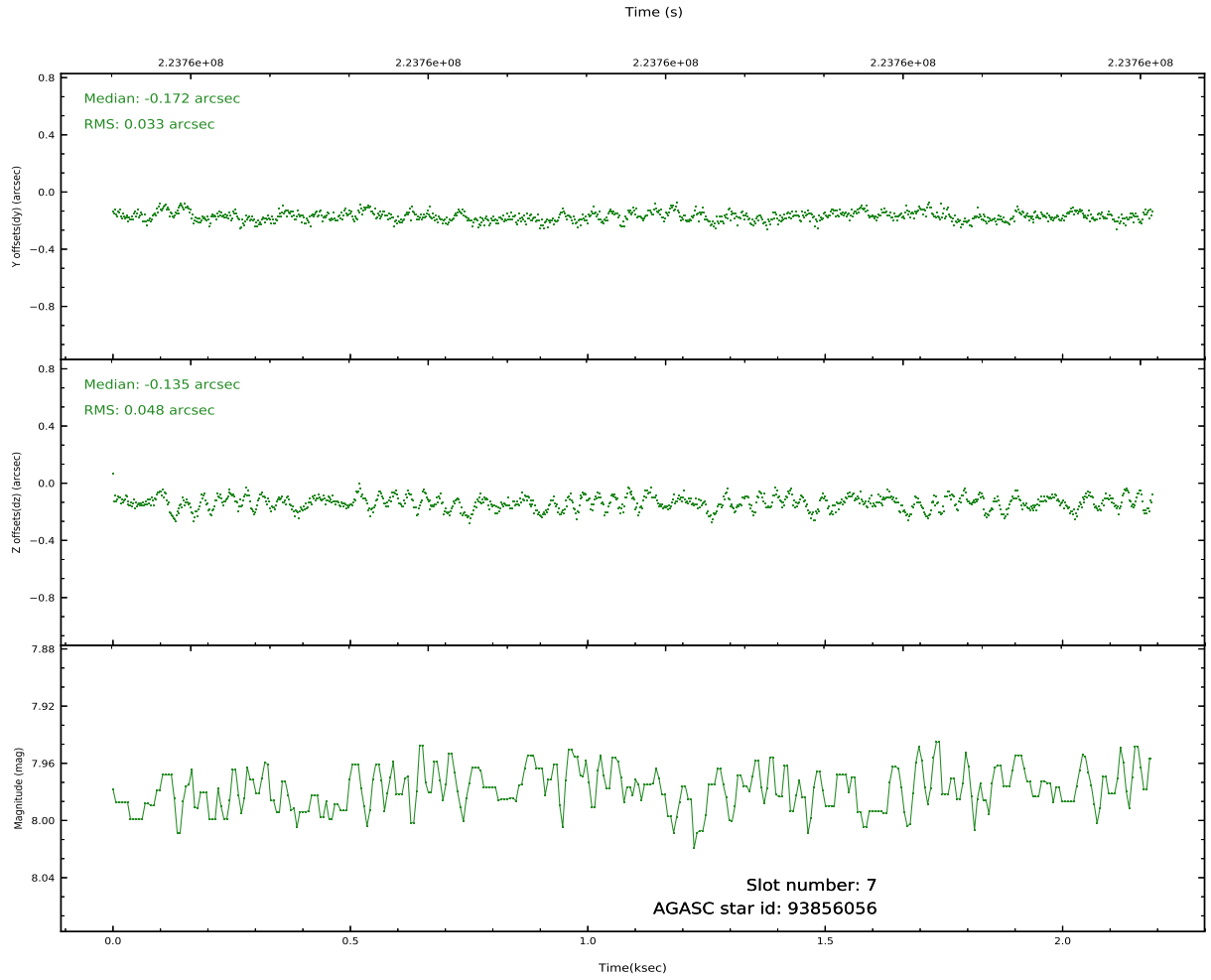
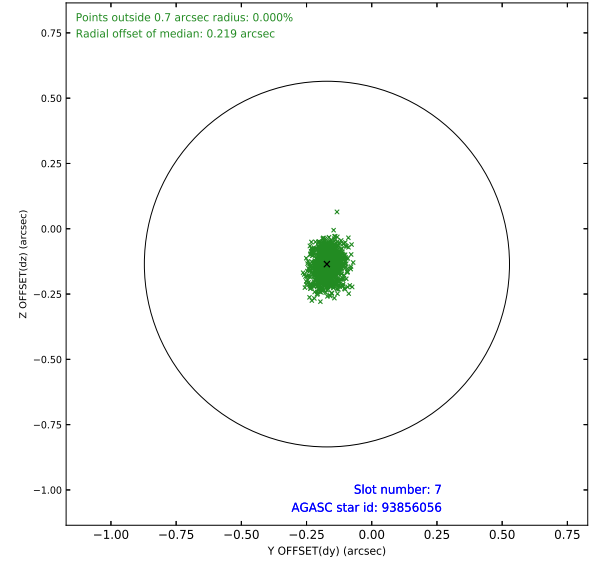
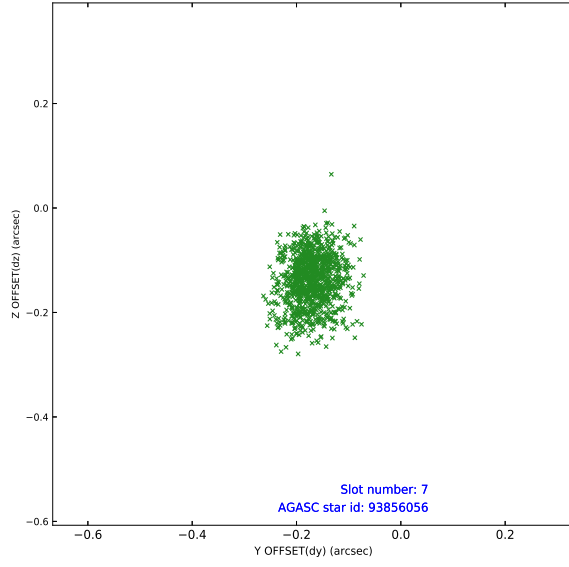
2.4.3 Slot 5



2.4.4 Slot 6

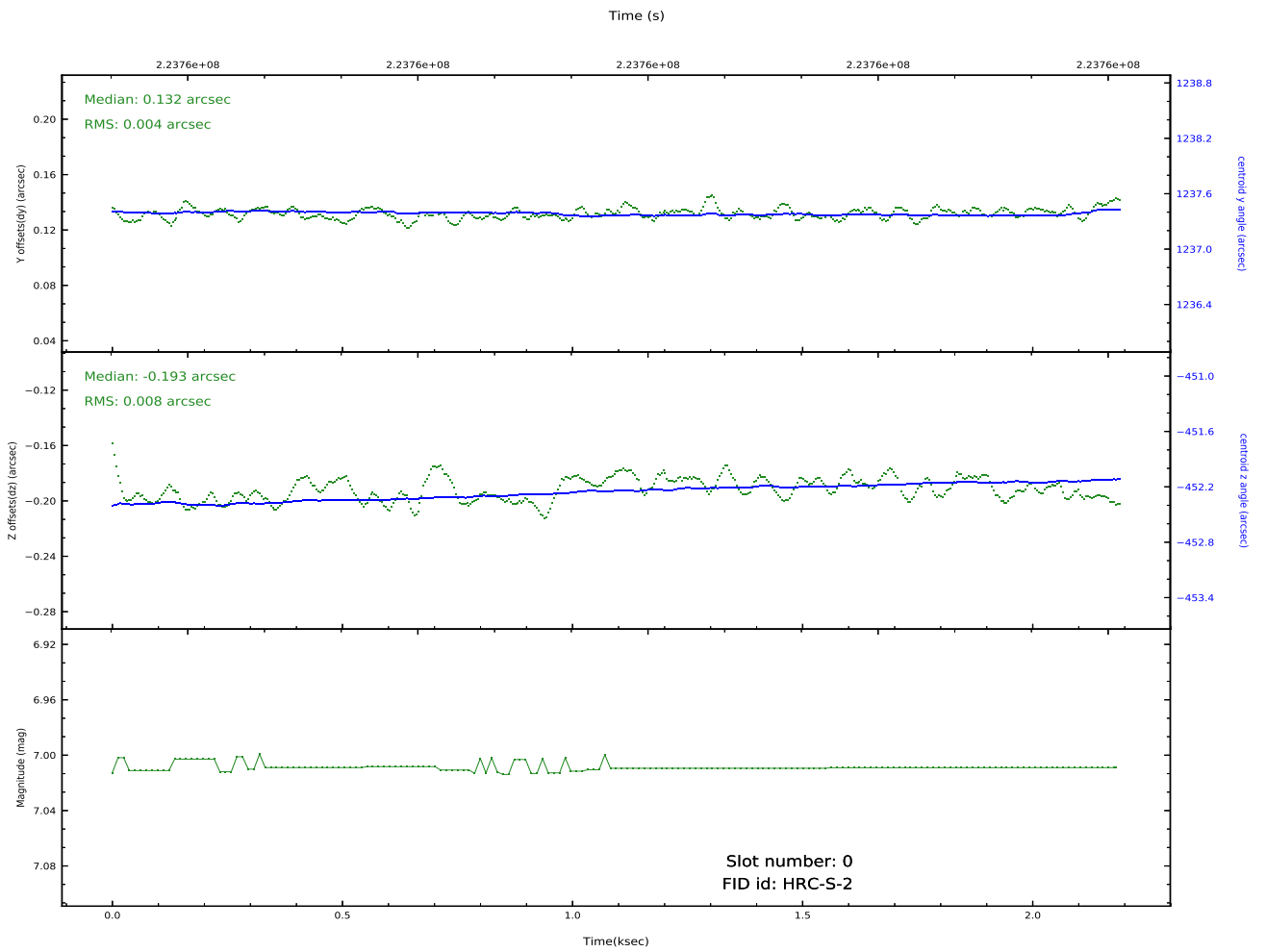
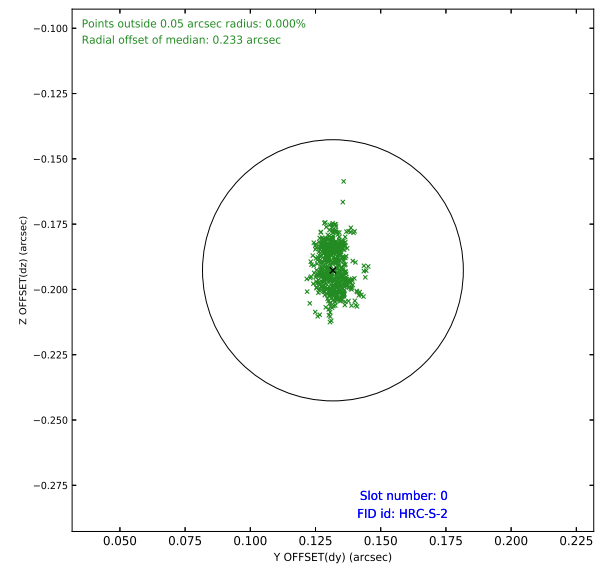
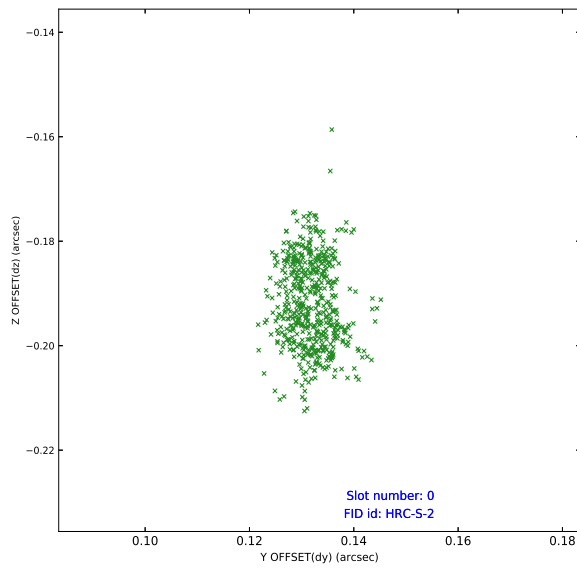


2.4.5 Slot 7

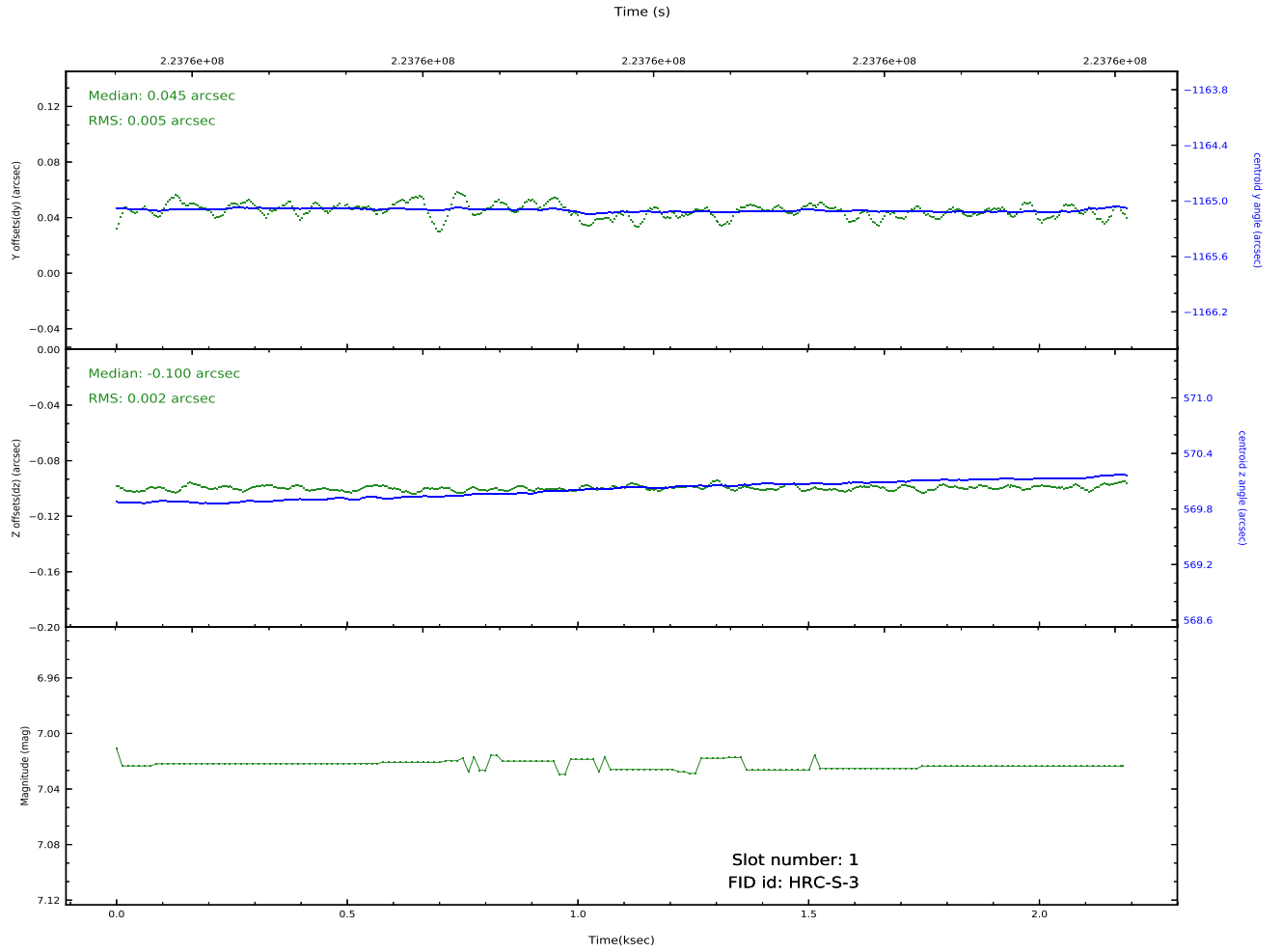
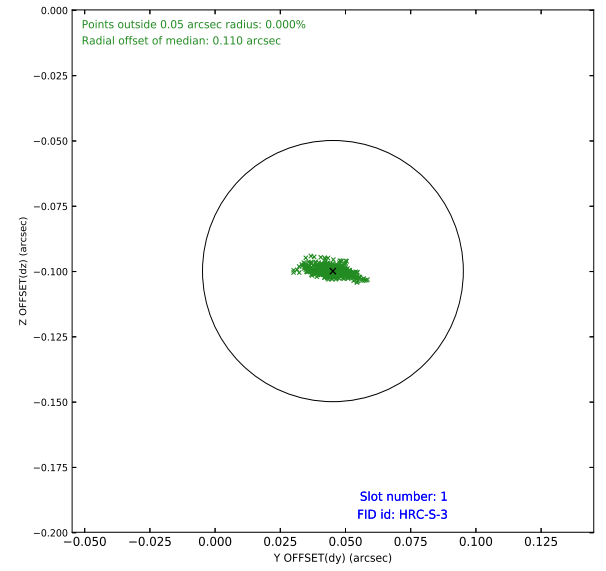
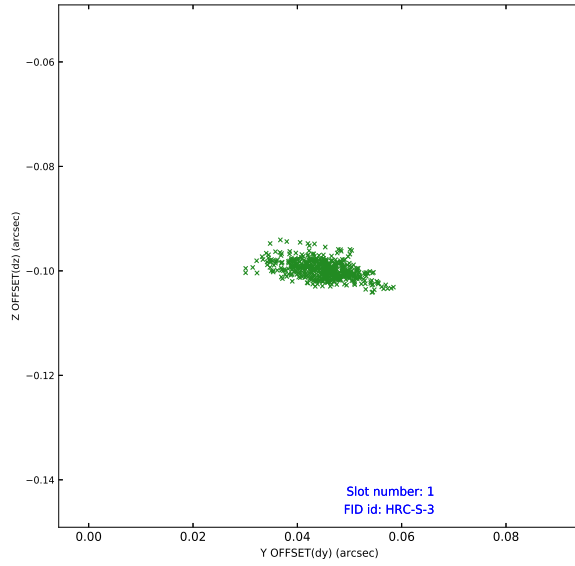


2.5 FID Slots

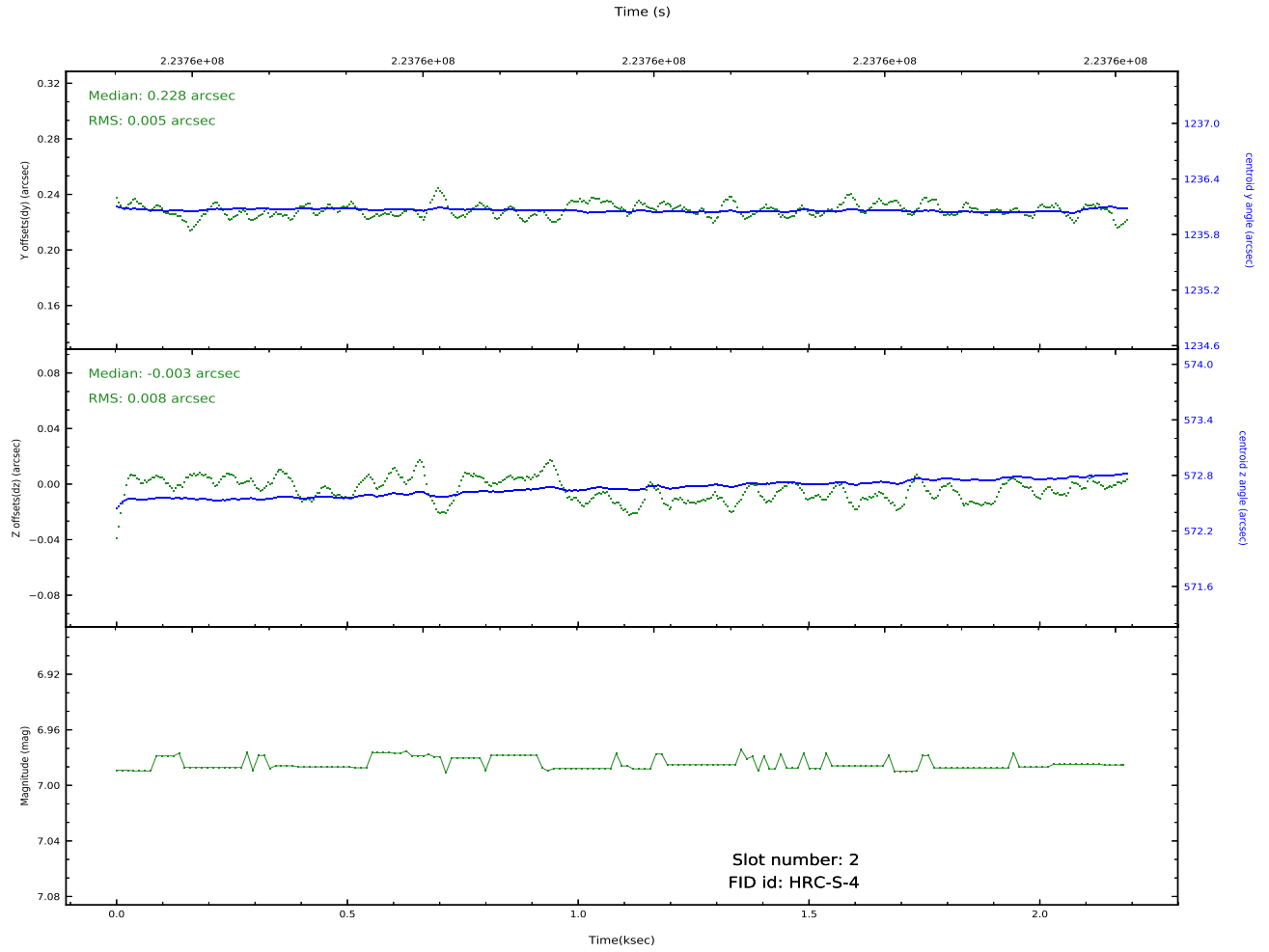
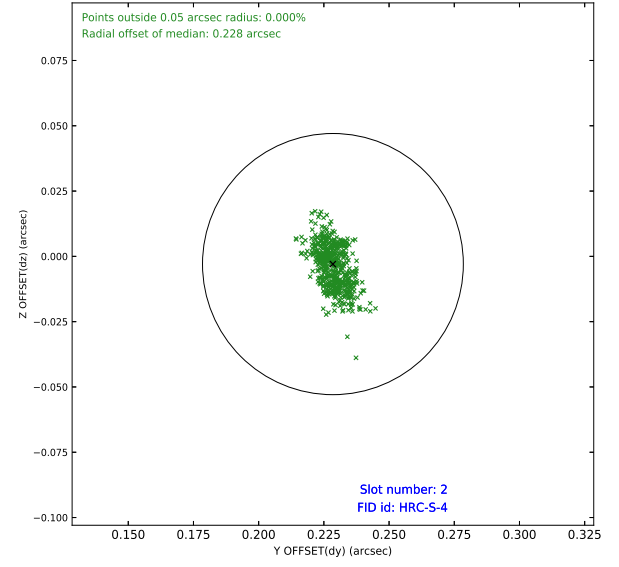
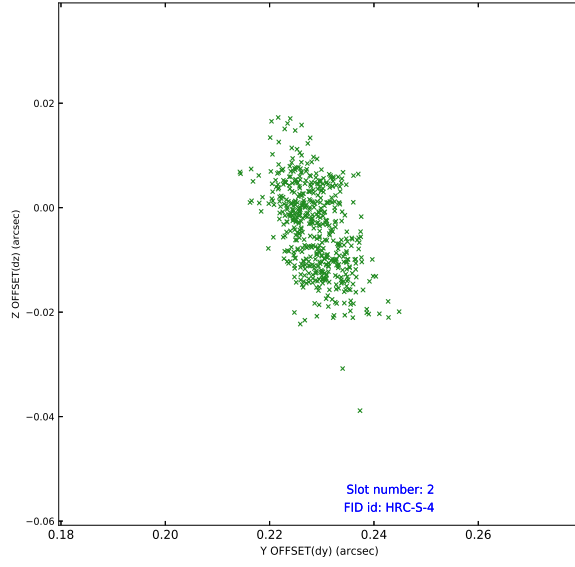
2.5.1 Slot 0



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	2.161981

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.