

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5059 - L2 Version 4
Chandra X-Ray Center

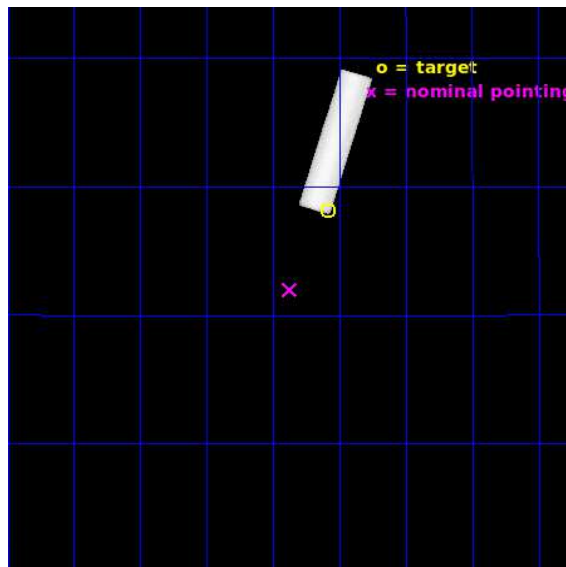
L2 Processing Date : Sep 22 2020

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1 Front

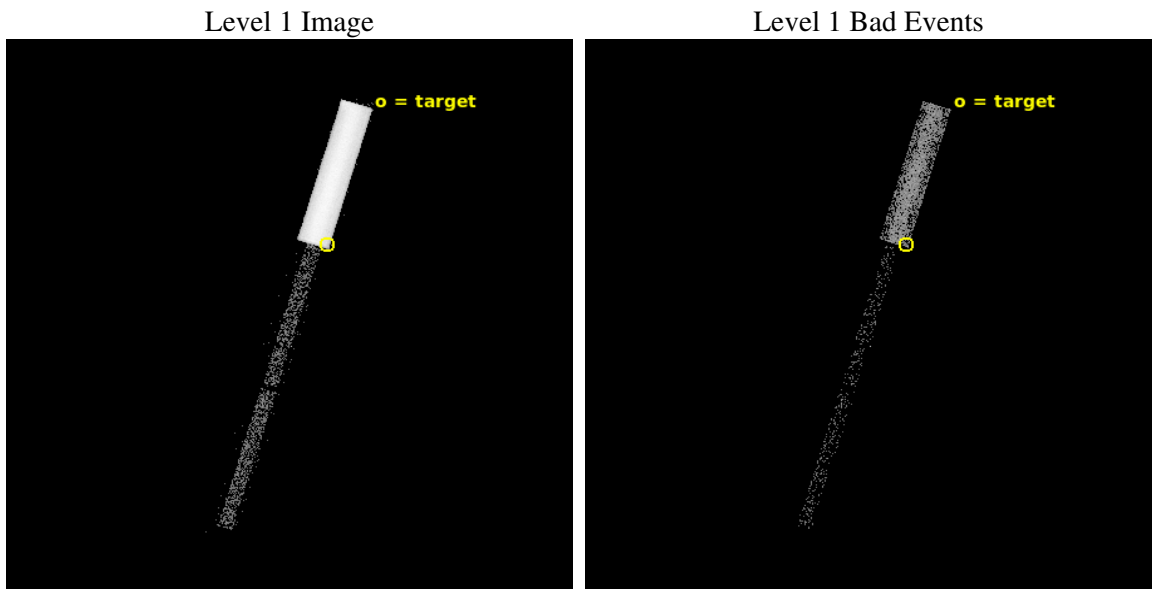
seq_num	290332	Sequence number
obs_id	5059	Observation id
title	AO5 Measurements of the optical/UV Transmission of the HRC and ACIS Filters.	Proposal title
observer	CXC Calibration	Principal investigator
object	Betelgeuse	Source name
ra_targ	88.792917	Observer's specified target RA [deg]
dec_targ	7.407056	Observer's specified target Dec [deg]
ra_nom	88.935517421796	Nominal RA [deg]
dec_nom	7.0991807067266	Nominal Dec [deg]
roll_nom	286.70917659561	Nominal Roll [deg]
revision	4	Processing version of data
ontime	2246.0313481688	[s]
livetime	2187.8001393168	Ontime multiplied by DTCOR
l2events	203111	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	2102.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	2246.0313481688	[s]
caldbver	4.9.2	 	l1events	248469	Number of level 1 events
date	2020-09-23T01:35:05	Date and time of file creation			
revision	4	Processing version of data			

2.1.3 Events

Level 1 Events

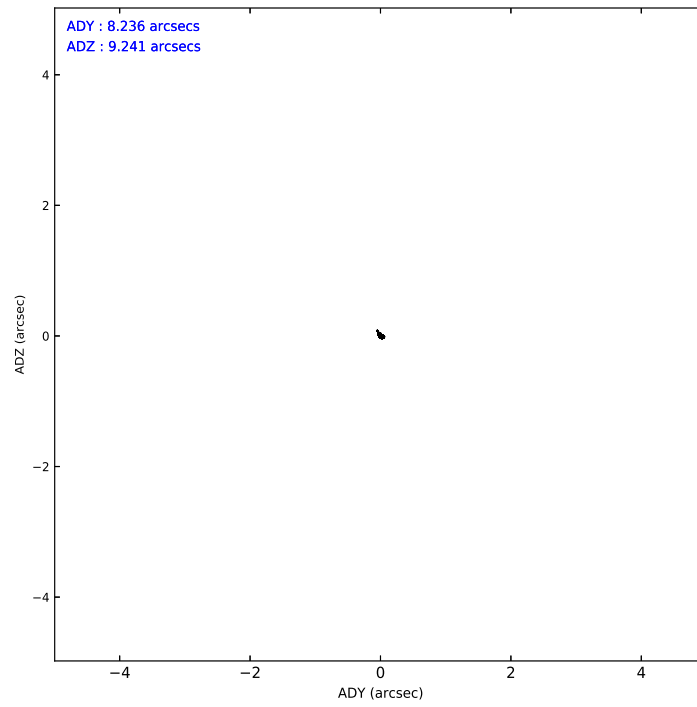
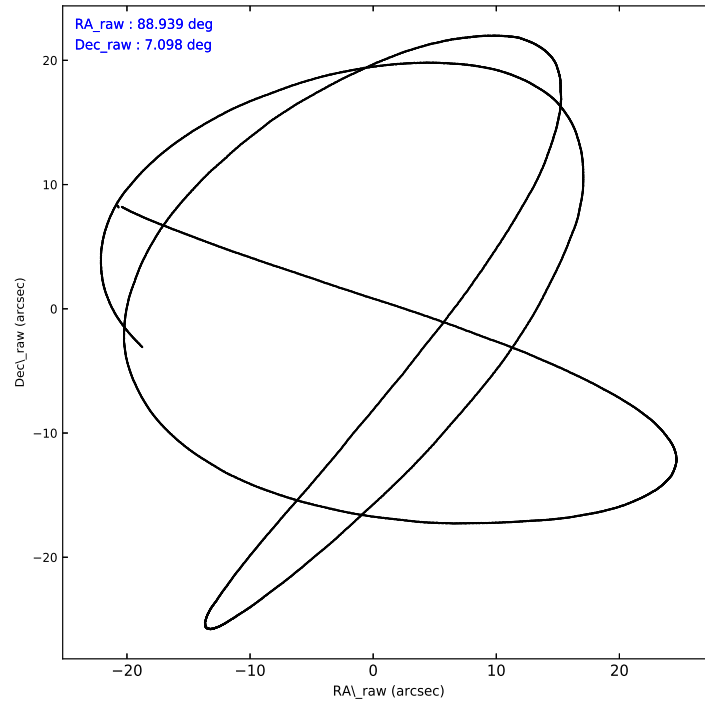
	segment 1	segment 2	segment 3
level 1 events	246093	1150	1226
rejected events	16055	1150	1226
rejected %	6%	100%	100%

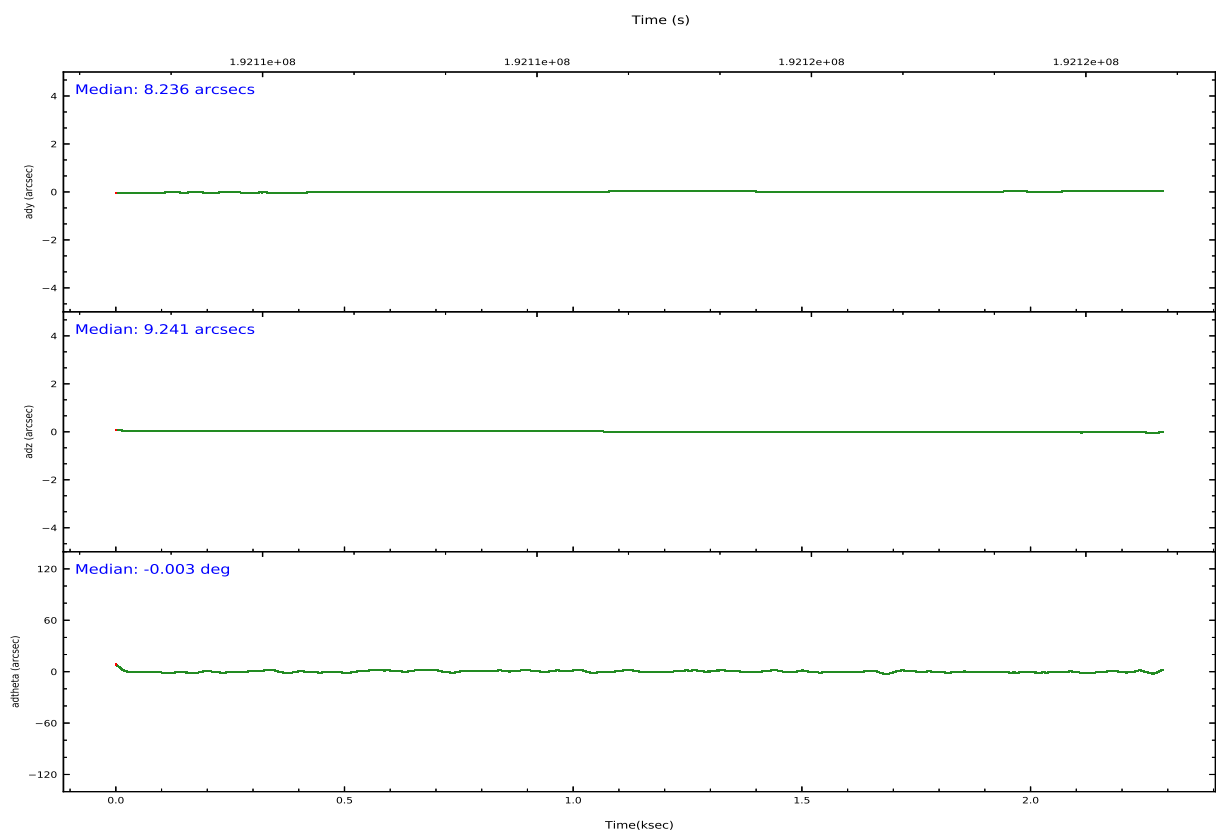
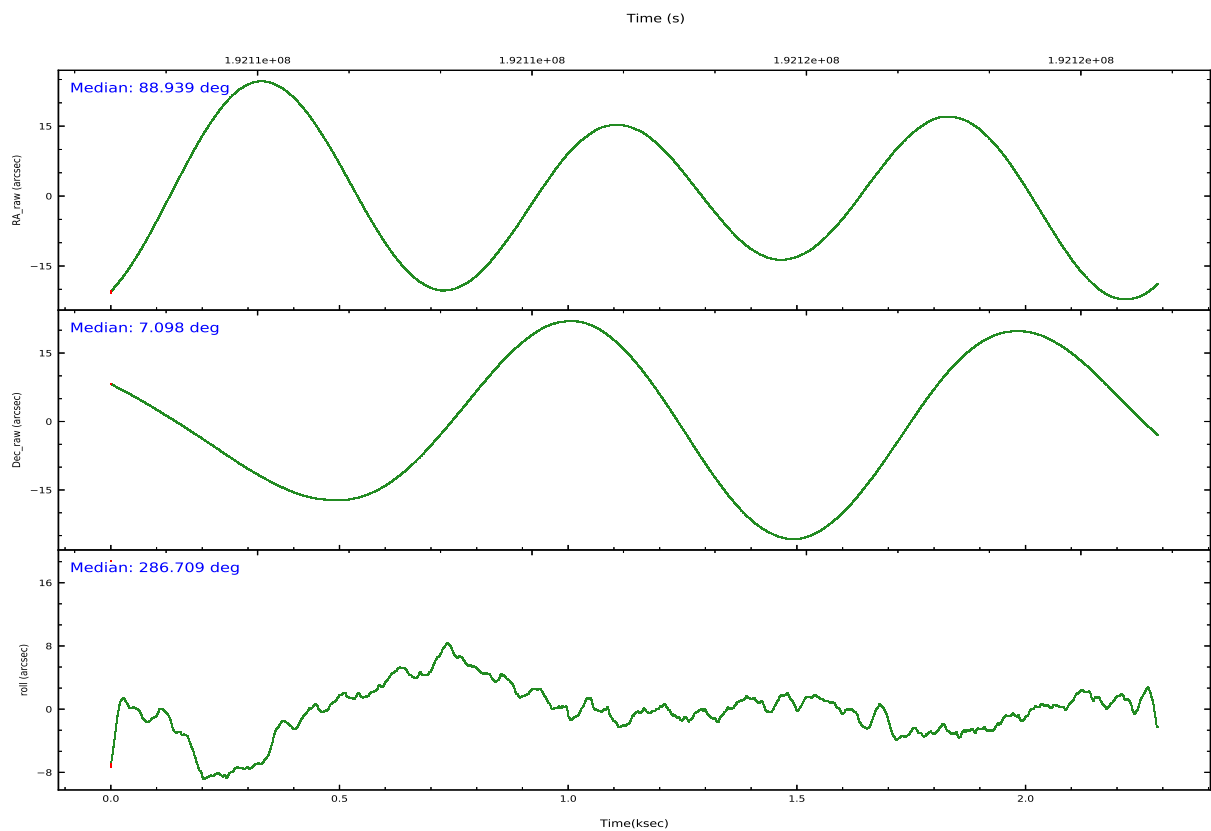
2.2 Compared Parameters

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	88.916805	88.93551742179601
[deg] Pointing Dec	7.116075	7.0991807067266
[deg] Pointing Roll	286.648107	286.70917659561
[s] Window start time (MET)	191980864.184000	191980864.184000
[s] Window stop time (MET)	197078464.184000	197078464.184000
[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)	192113667.184000	192113291.1205
Observation start date	2004-02-02T12:53:23	2004-02-02T12:48:11
[s] Observation end time (MET)	192115769.184000	192117102.07067
Observation end date	2004-02-02T13:28:25	2004-02-02T13:51:42

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

2.3 Aspect



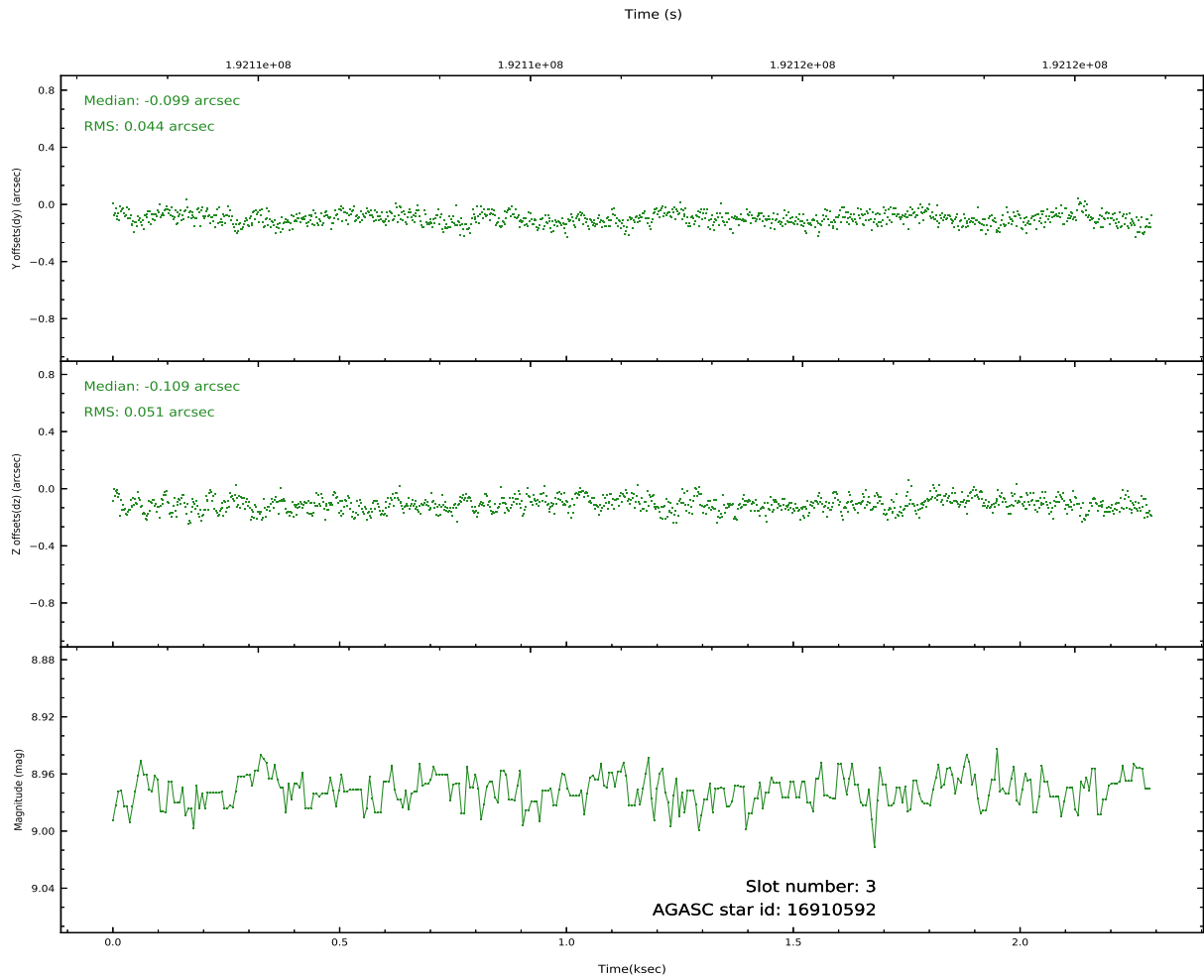
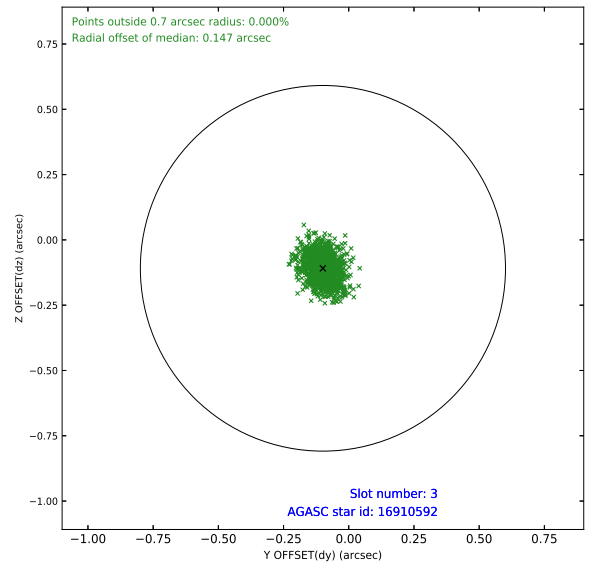
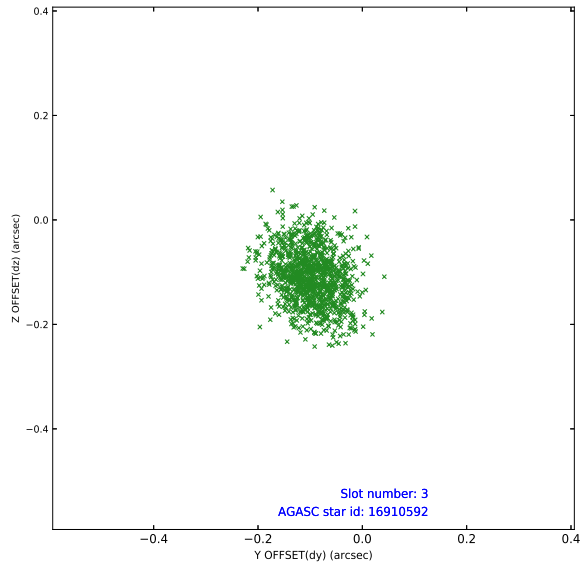


Slot Statistics

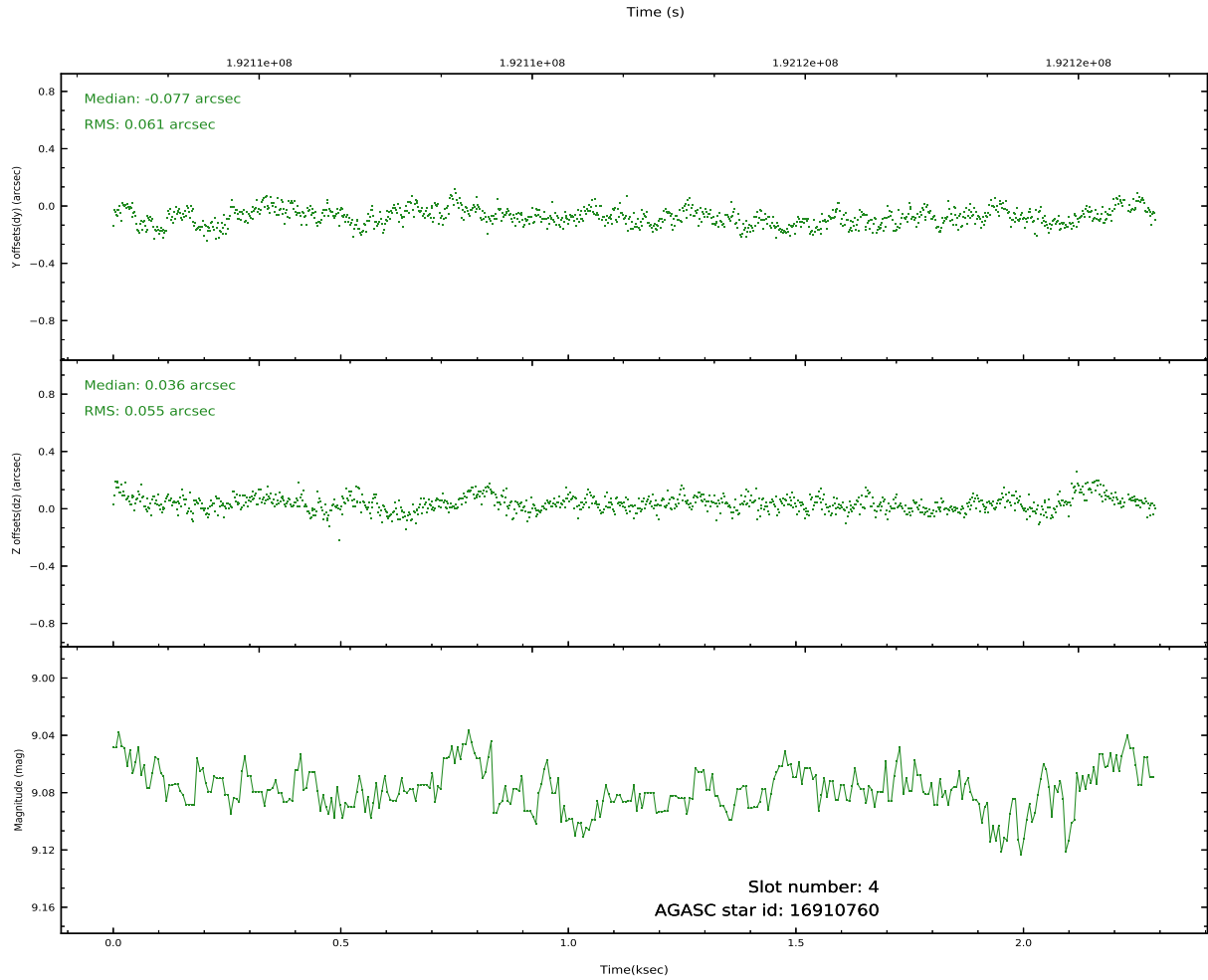
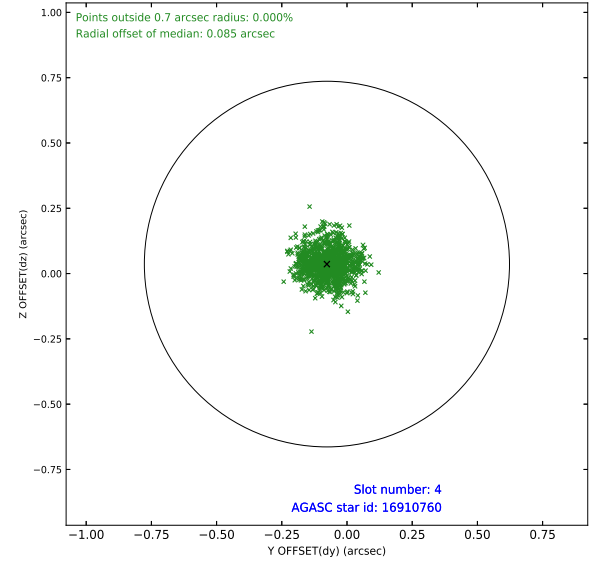
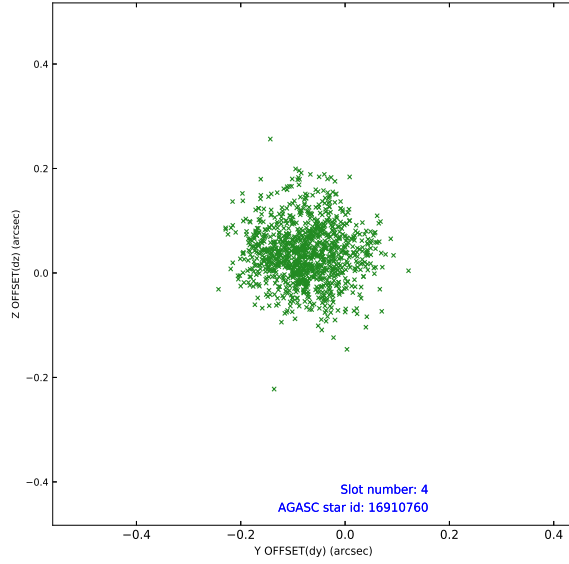
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		HRC-S-1	7.08	559	1.000	0.093	-0.228	0.006	0.010	0.000000	0.000000	-1162.46	-457
1	FID		HRC-S-3	7.08	559	1.000	0.054	0.015	0.007	0.013	0.000000	0.000000	-1167.30	570
2	FID		HRC-S-4	7.06	559	1.000	0.241	-0.084	0.005	0.009	0.000000	0.000000	1233.86	575
3	GUIDE	used	16910592	8.97	1118	1.000	-0.099	-0.109	0.073	0.119	88.532936	6.726769	950.03	-1716
4	GUIDE	used	16910760	9.08	1114	1.000	-0.077	0.036	0.088	0.138	89.059695	7.486642	-1130.61	869
5	GUIDE	used	16912728	9.10	1118	1.000	0.228	-0.039	0.088	0.144	88.844647	6.730340	1256.68	-644
6	GUIDE	used	16913360	8.34	1118	1.000	-0.124	0.049	0.061	0.094	89.178373	7.247125	-182.86	1029
7	GUIDE	used	16917248	8.71	1117	1.000	0.074	0.068	0.062	0.100	89.306967	6.774731	1577.01	985

2.4 Star Slots

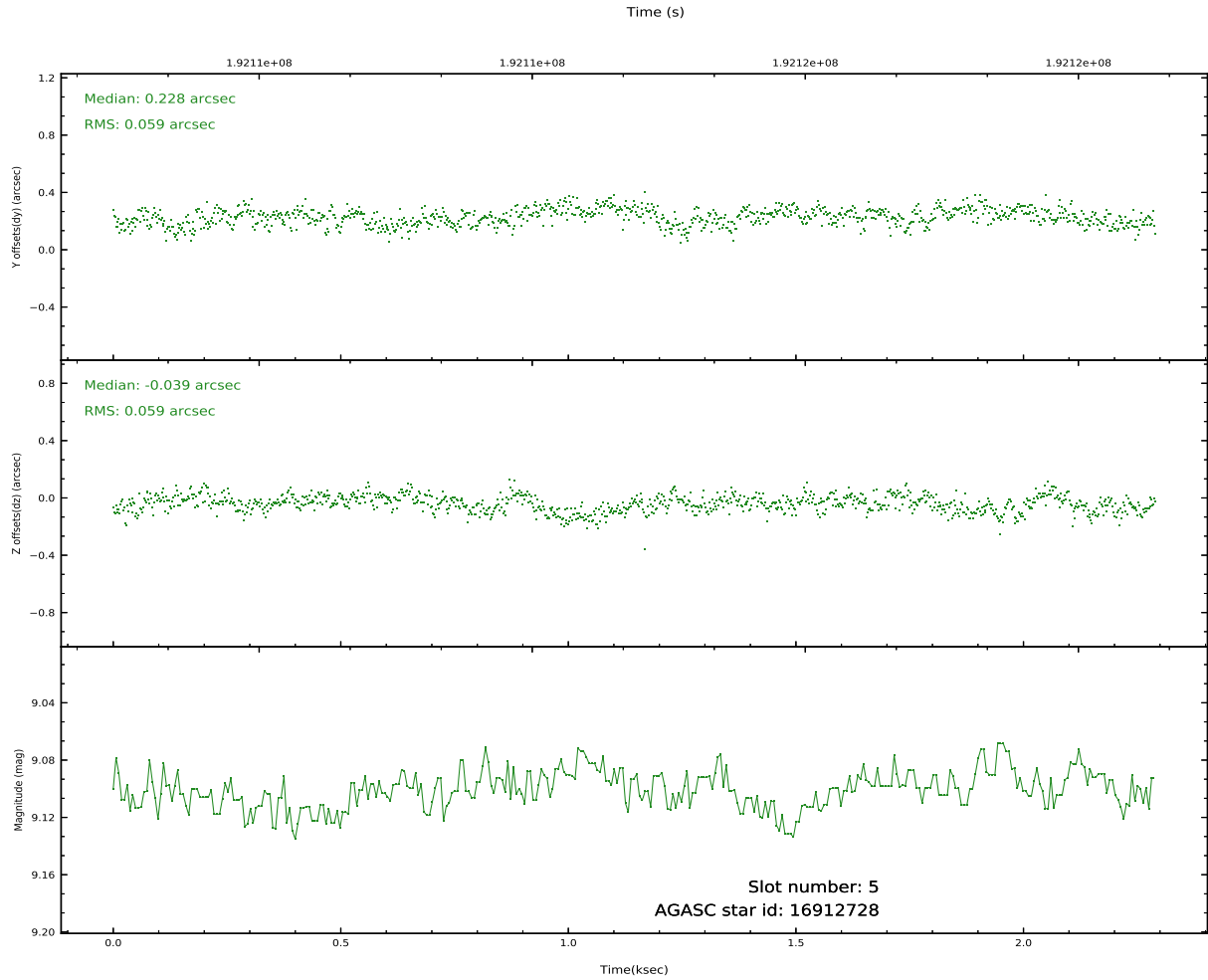
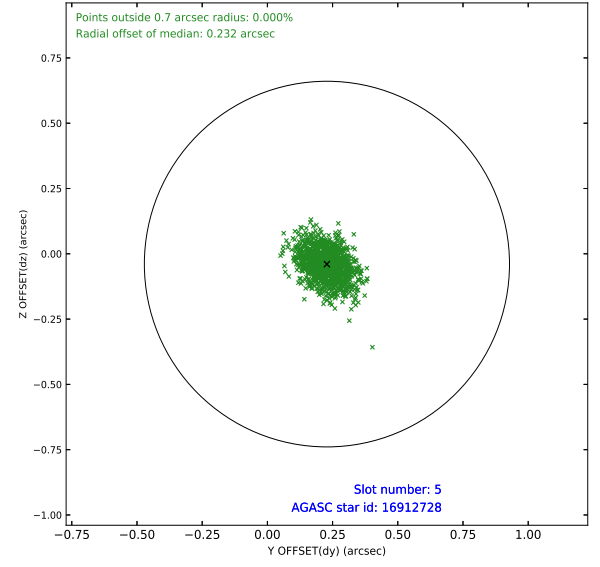
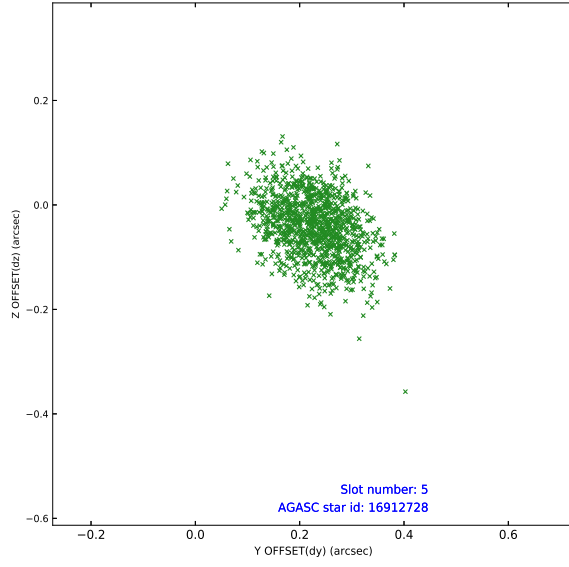
2.4.1 Slot 3



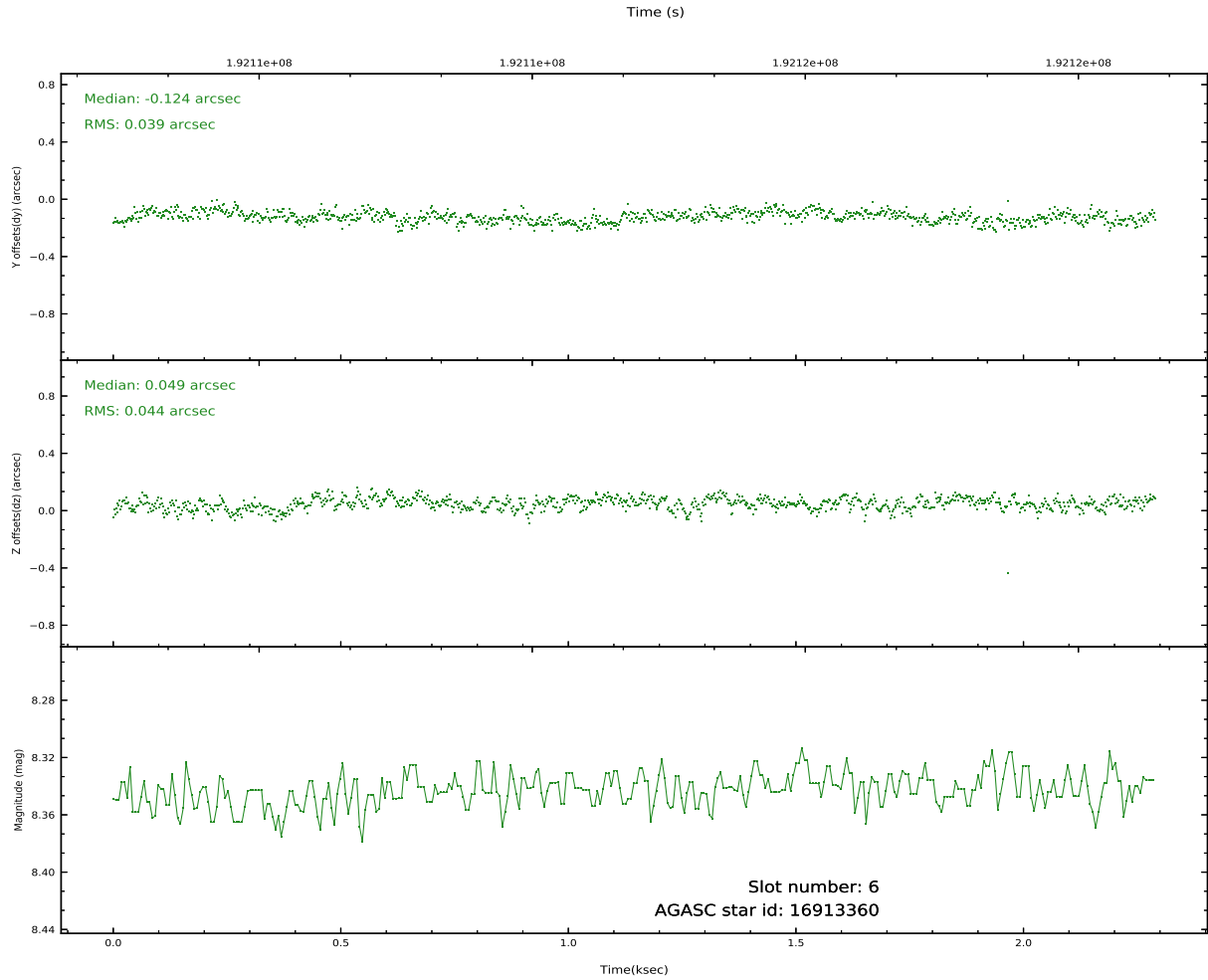
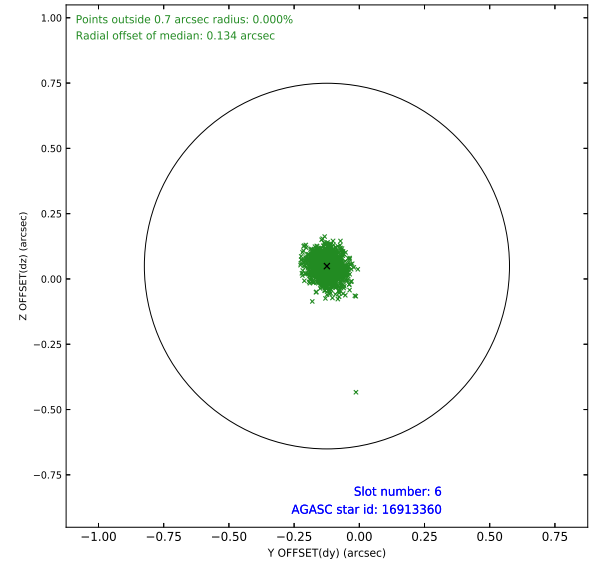
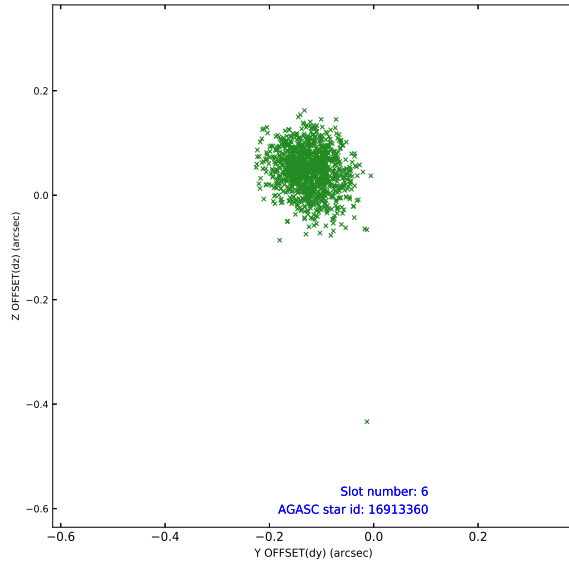
2.4.2 Slot 4



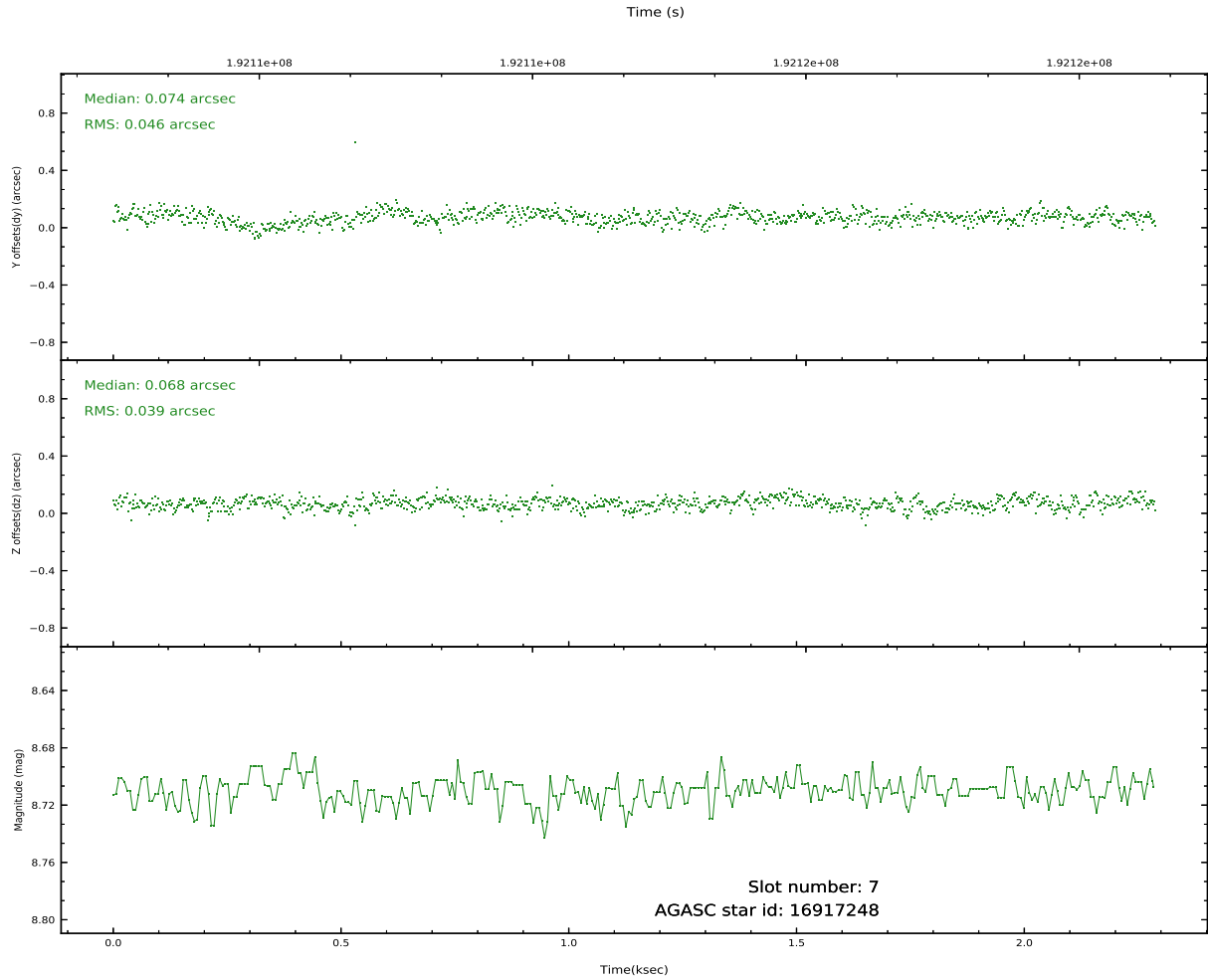
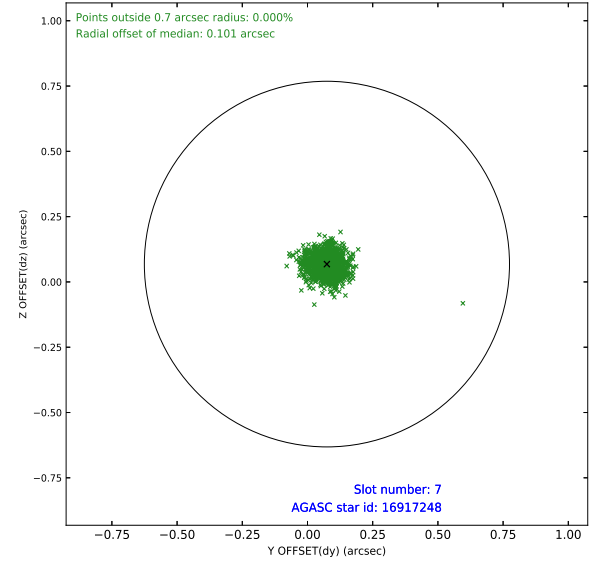
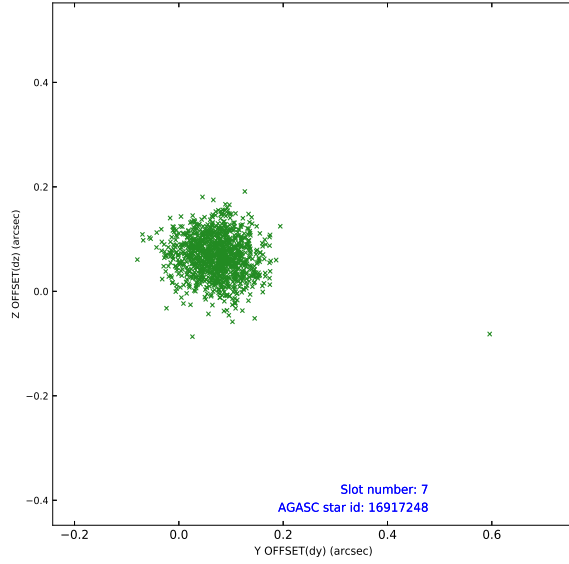
2.4.3 Slot 5



2.4.4 Slot 6

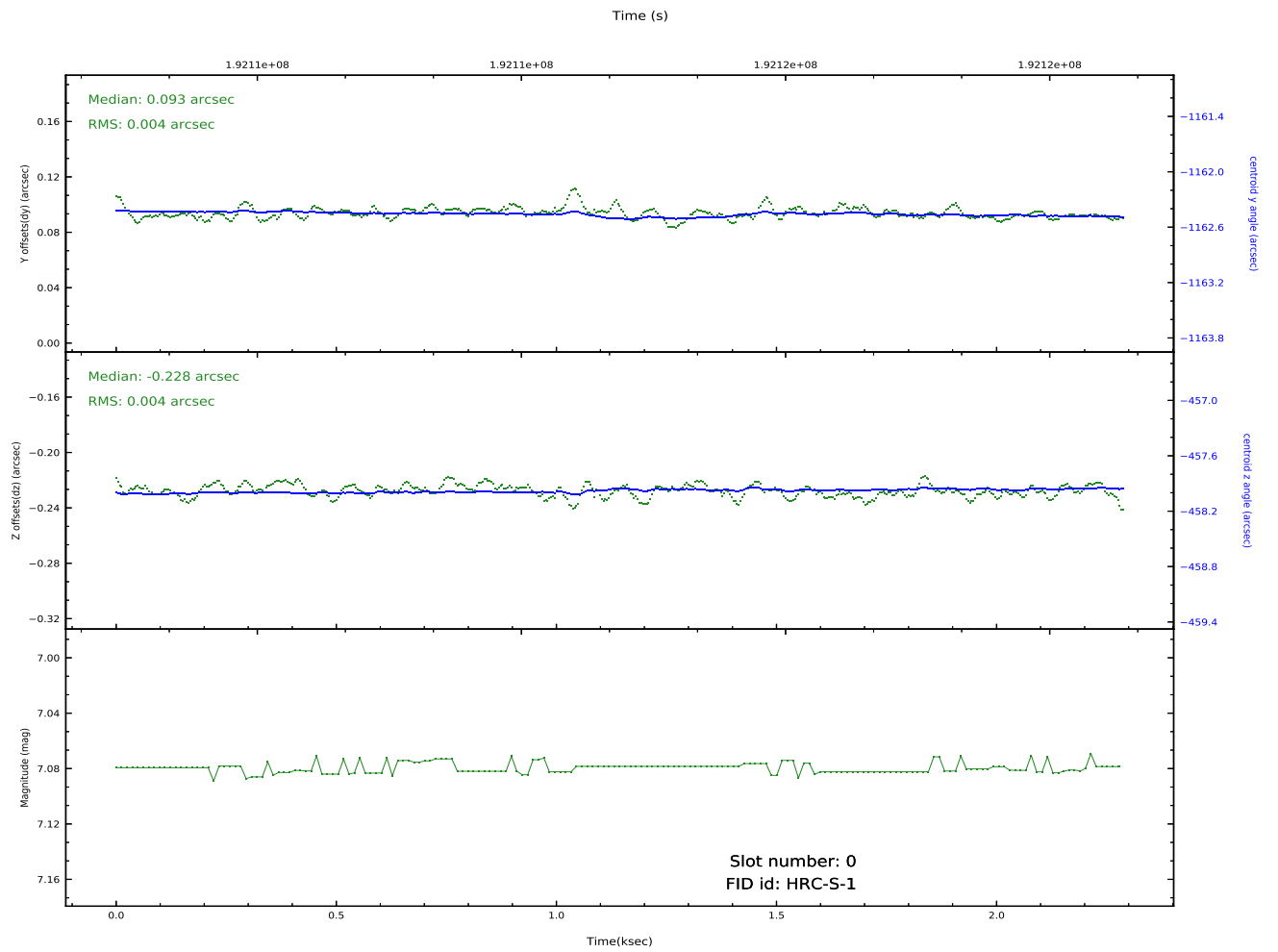
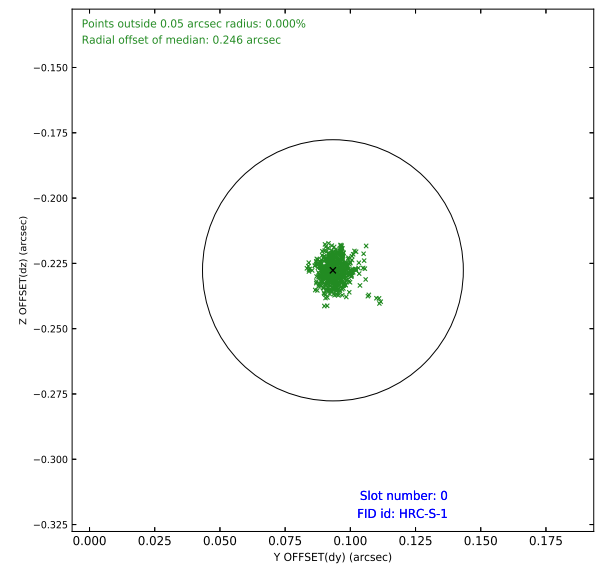
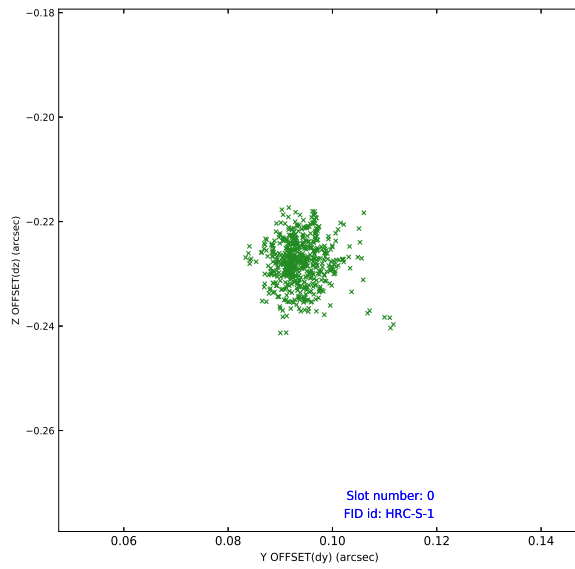


2.4.5 Slot 7

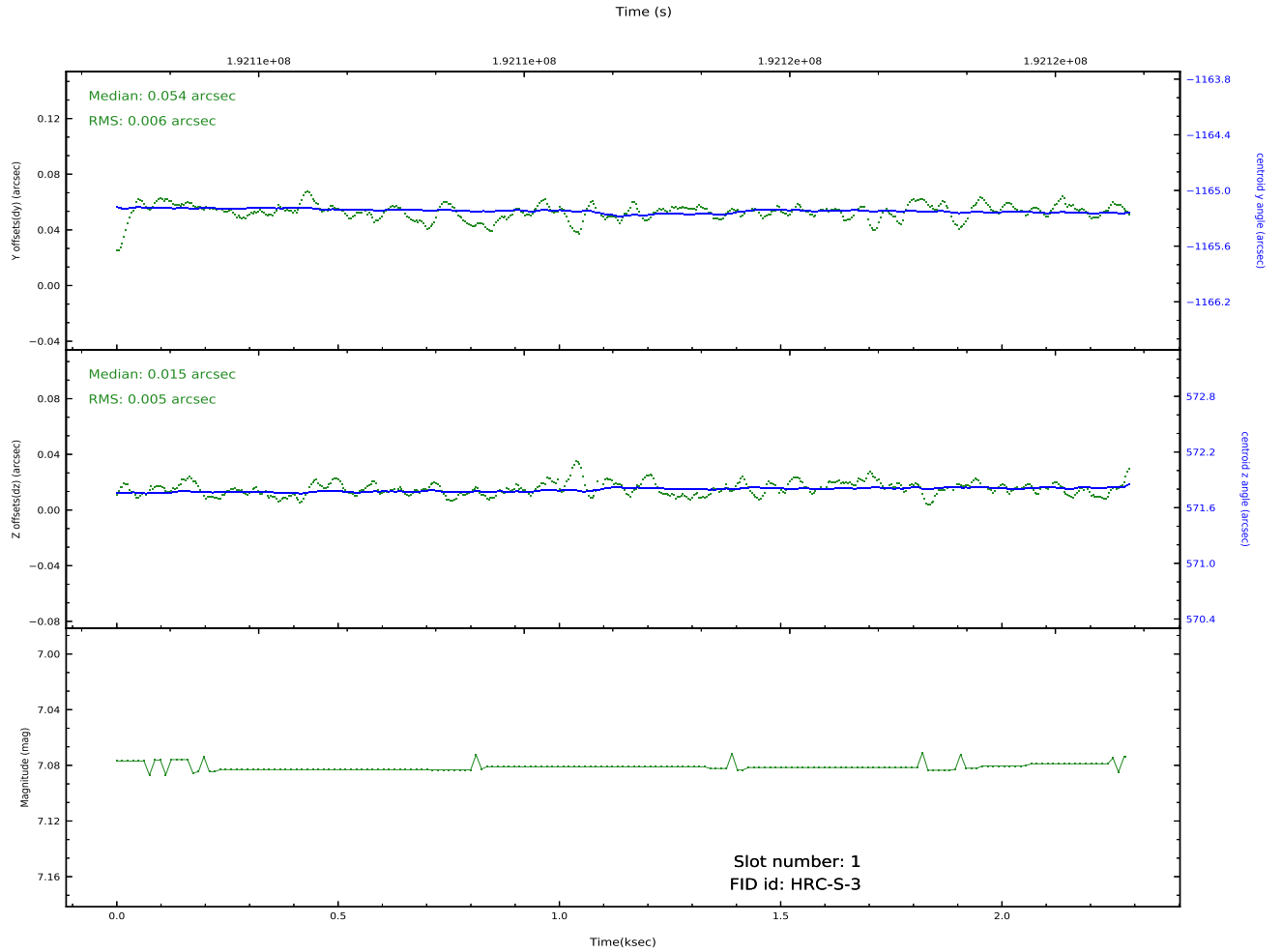
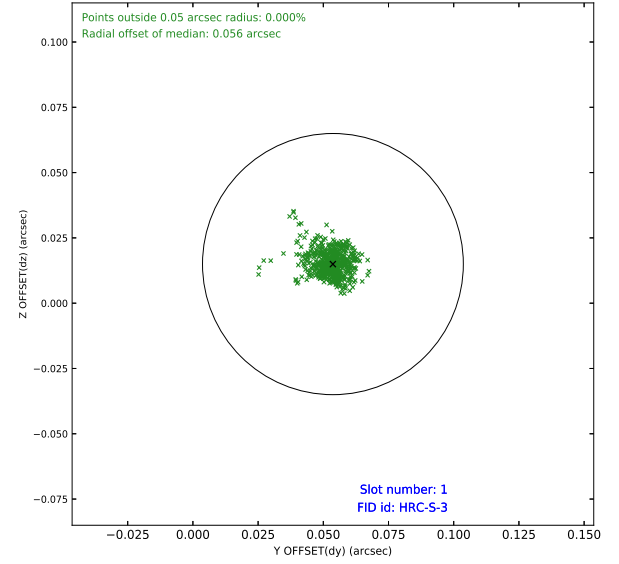
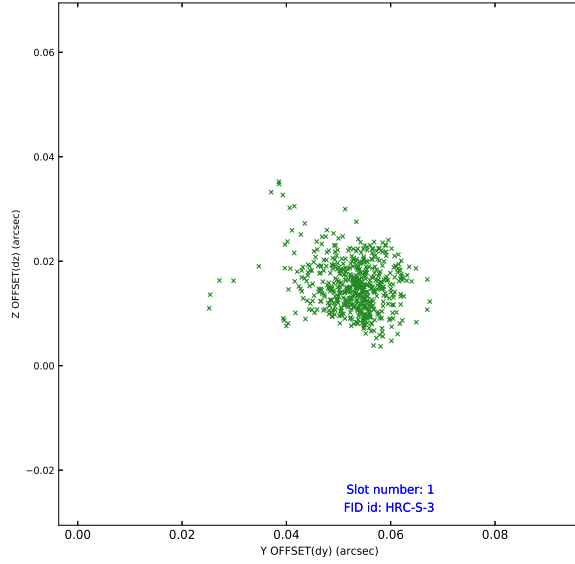


2.5 FID Slots

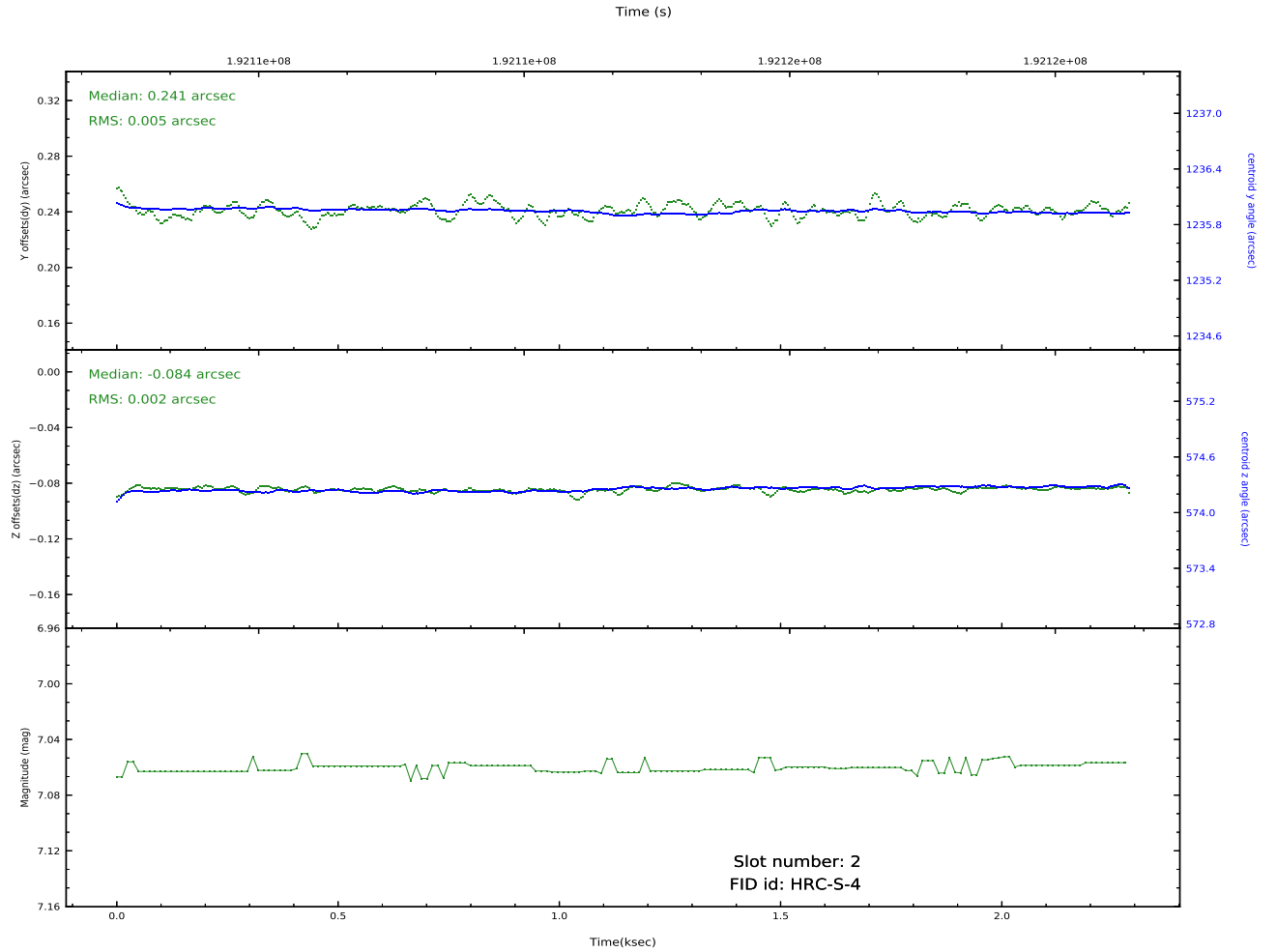
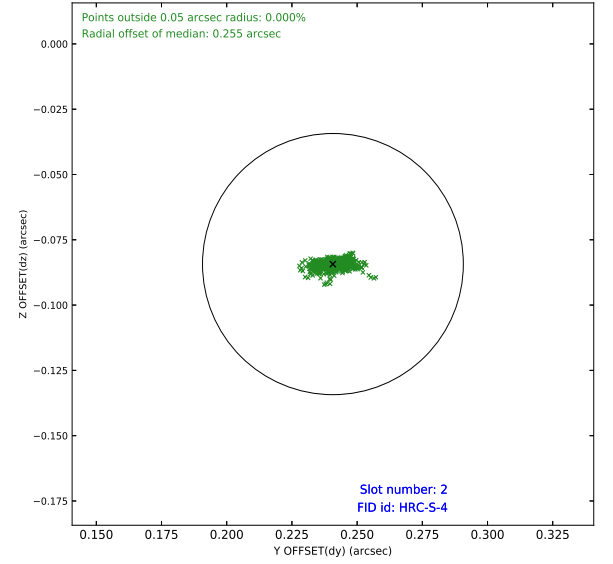
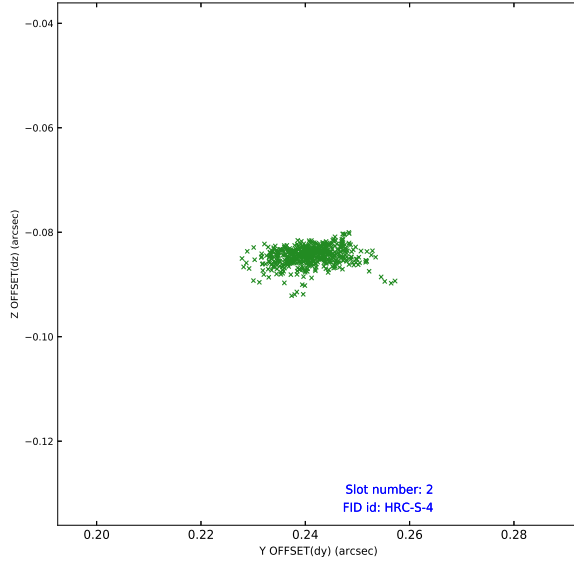
2.5.1 Slot 0



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)	2020.09.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.246

A.2 Comments

Window constraint satisfied.