

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20686 - L2 Version 2
Chandra X-Ray Center

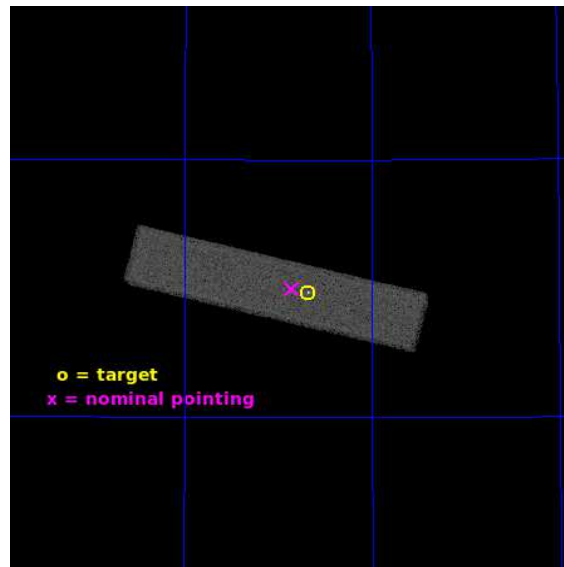
L2 Processing Date : Oct 27 2020

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1 Front

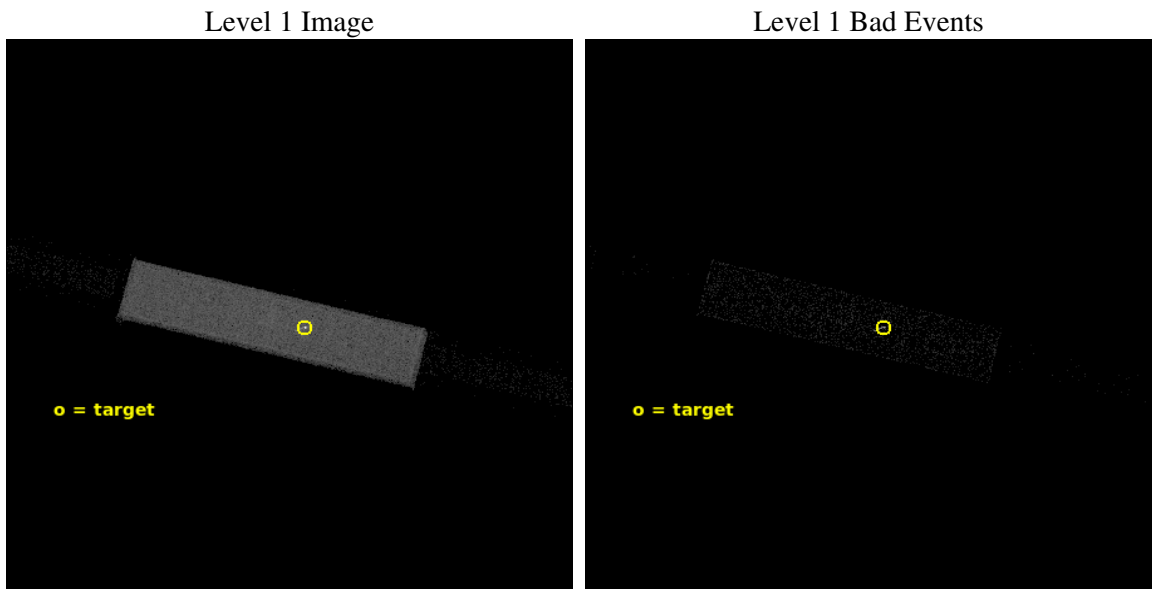
seq_num	291397	Sequence number
obs_id	20686	Observation id
title	AO-19 Calibration Observations to Monitor the Spatial Variations in the HRC-S Gain	Proposal title
observer	CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.21287604111	Nominal RA [deg]
dec_nom	45.749618224123	Nominal Dec [deg]
roll_nom	193.87410573821	Nominal Roll [deg]
revision	2	Processing version of data
ontime	1171.8313196898	[s]
livetime	1161.6134852173	Ontime multiplied by DTCOR
l2events	78899	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	1000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	1171.8313196898	[s]
caldsver	4.9.3	 	l1events	146907	Number of level 1 events
date	2020-10-27T16:18:13	Date and time of file creation			
revision	2	Processing version of data			

2.1.3 Events

Level 1 Events

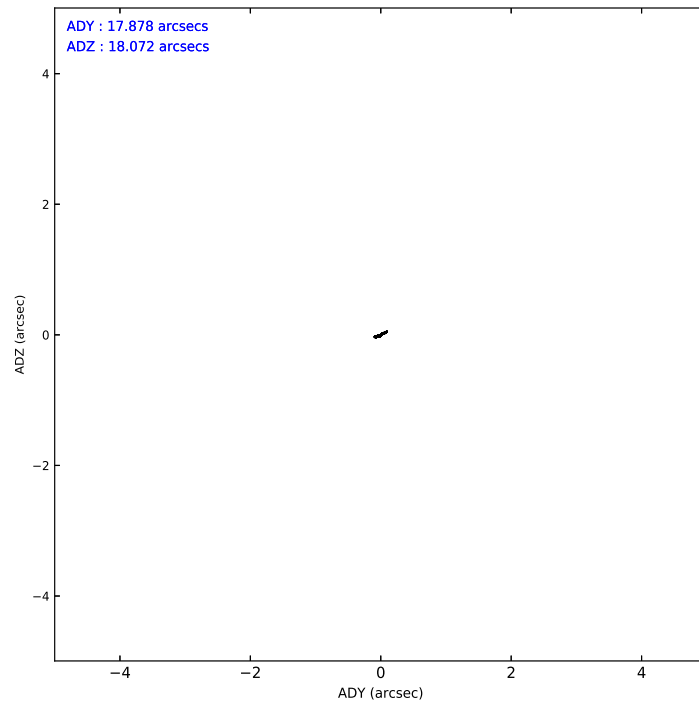
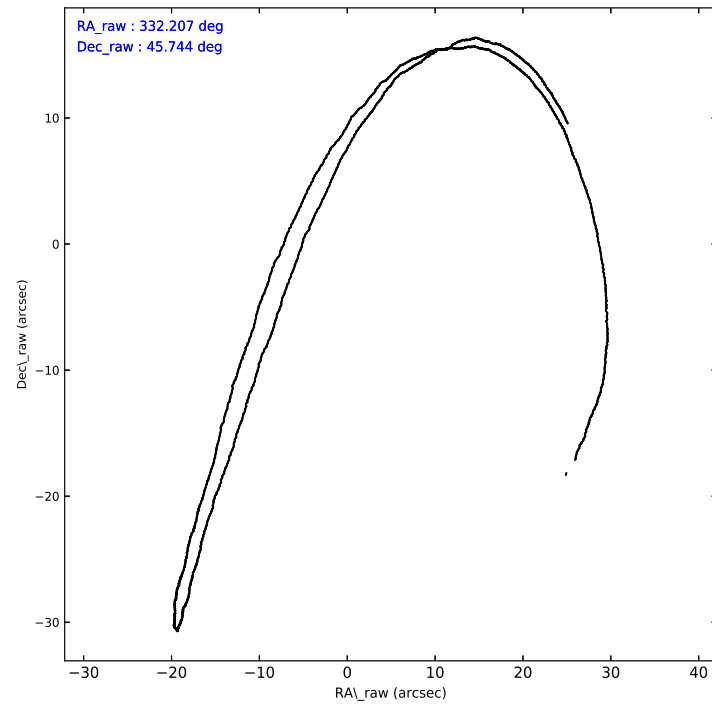
	segment 1	segment 2	segment 3
level 1 events	992	144972	943
rejected events	992	53212	943
rejected %	100%	36%	100%

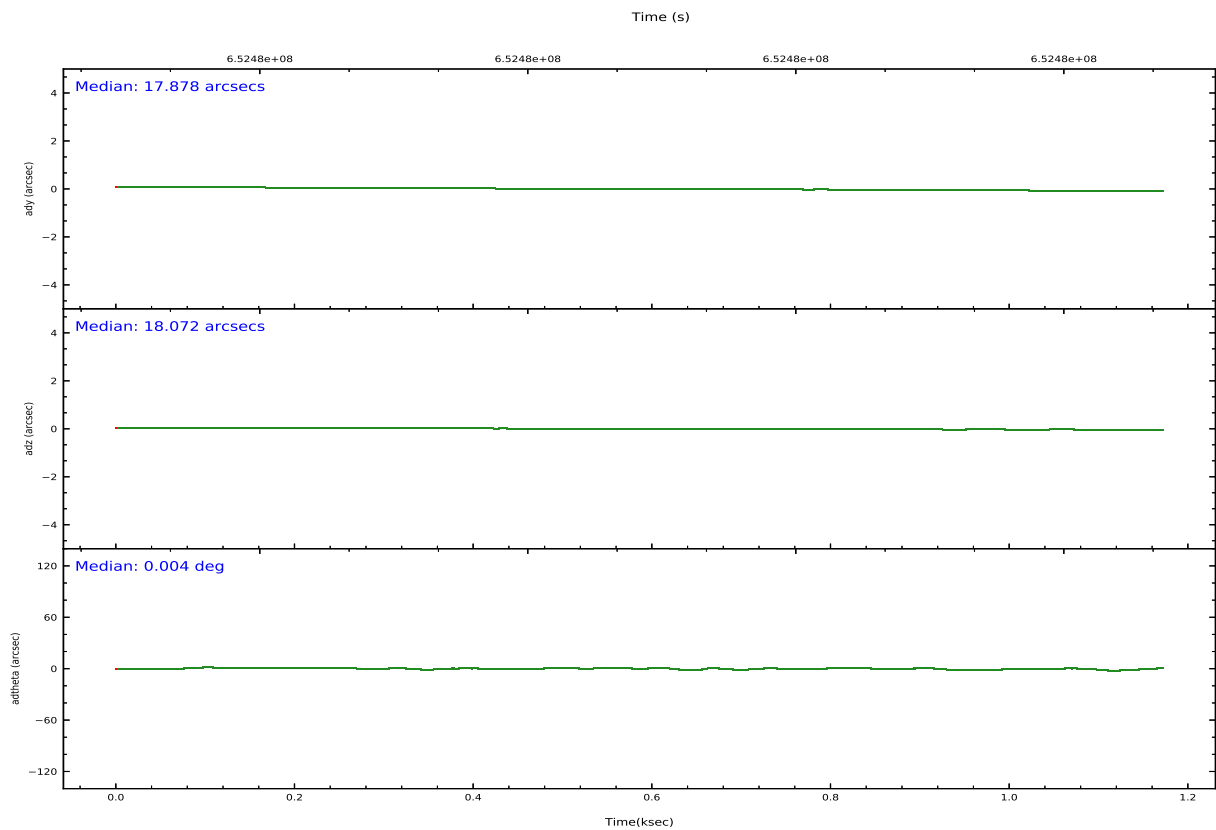
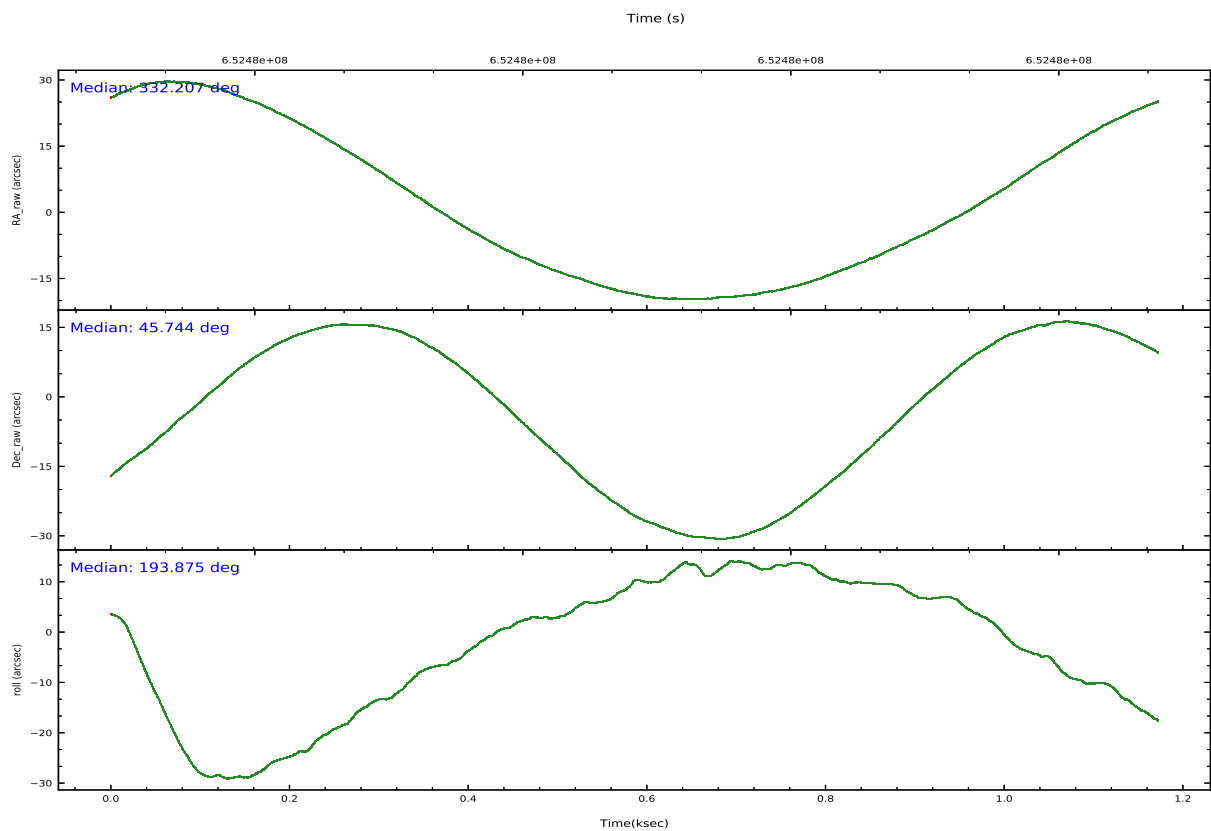
2.2 Compared Parameters

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	332.235651	332.21287604111
[deg] Pointing Dec	45.763431	45.749618224123
[deg] Pointing Roll	193.795292	193.87410573821
[mm] SIM focus pos	-1.533336	-1.526339935833849
[mm] SIM defocus	7.710433287538843e-07	0.006996703570447904
[mm] SIM translation stage pos	250.455976	250.466033080201
[mm] SIM translation stage offset	0	-0.01005468664627074
[s] Observation start time (MET)	652480911.184000	652480144.71222
Observation start date	2018-09-04T20:40:42	2018-09-04T20:29:04
[s] Observation end time (MET)	652481911.184000	652482045.06233
Observation end date	2018-09-04T20:57:22	2018-09-04T21:00:45

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

2.3 Aspect



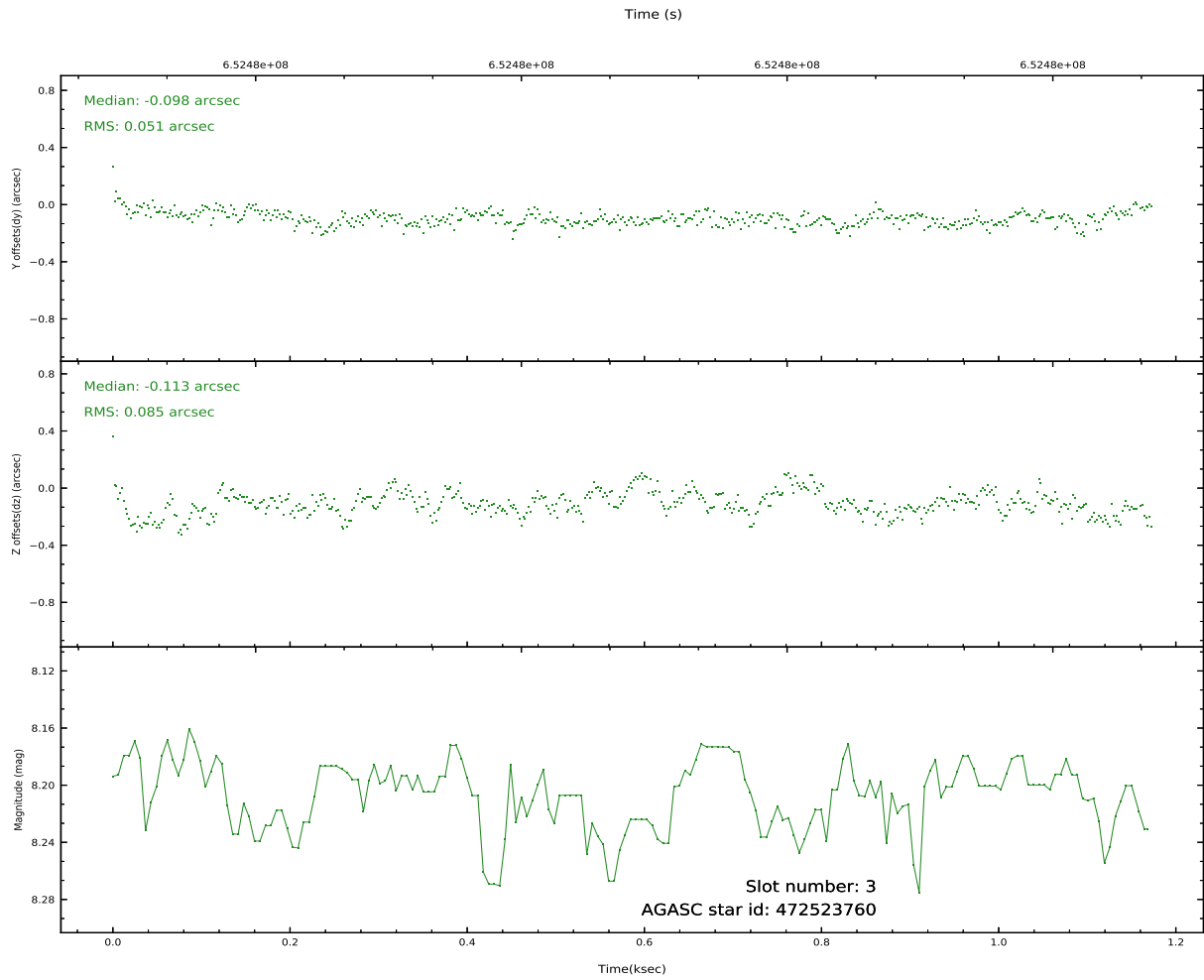
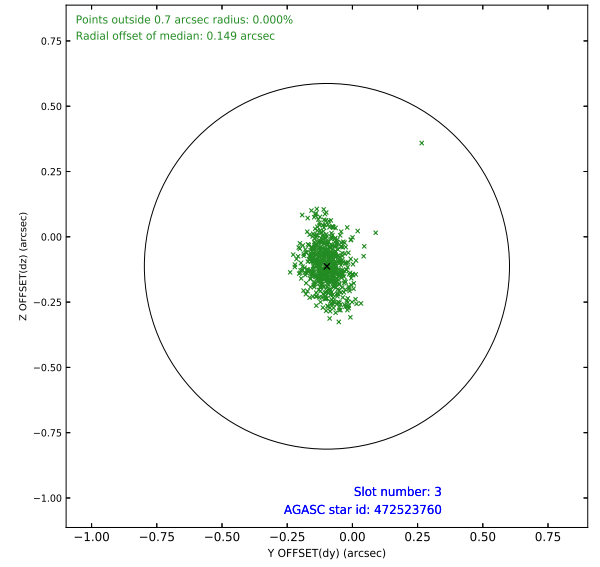
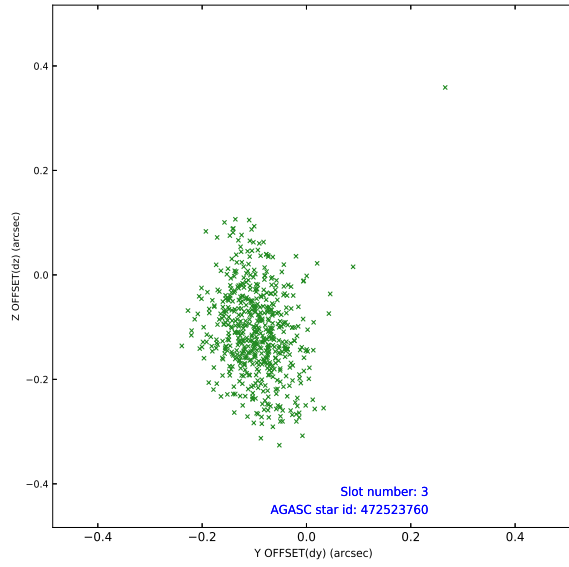


Slot Statistics

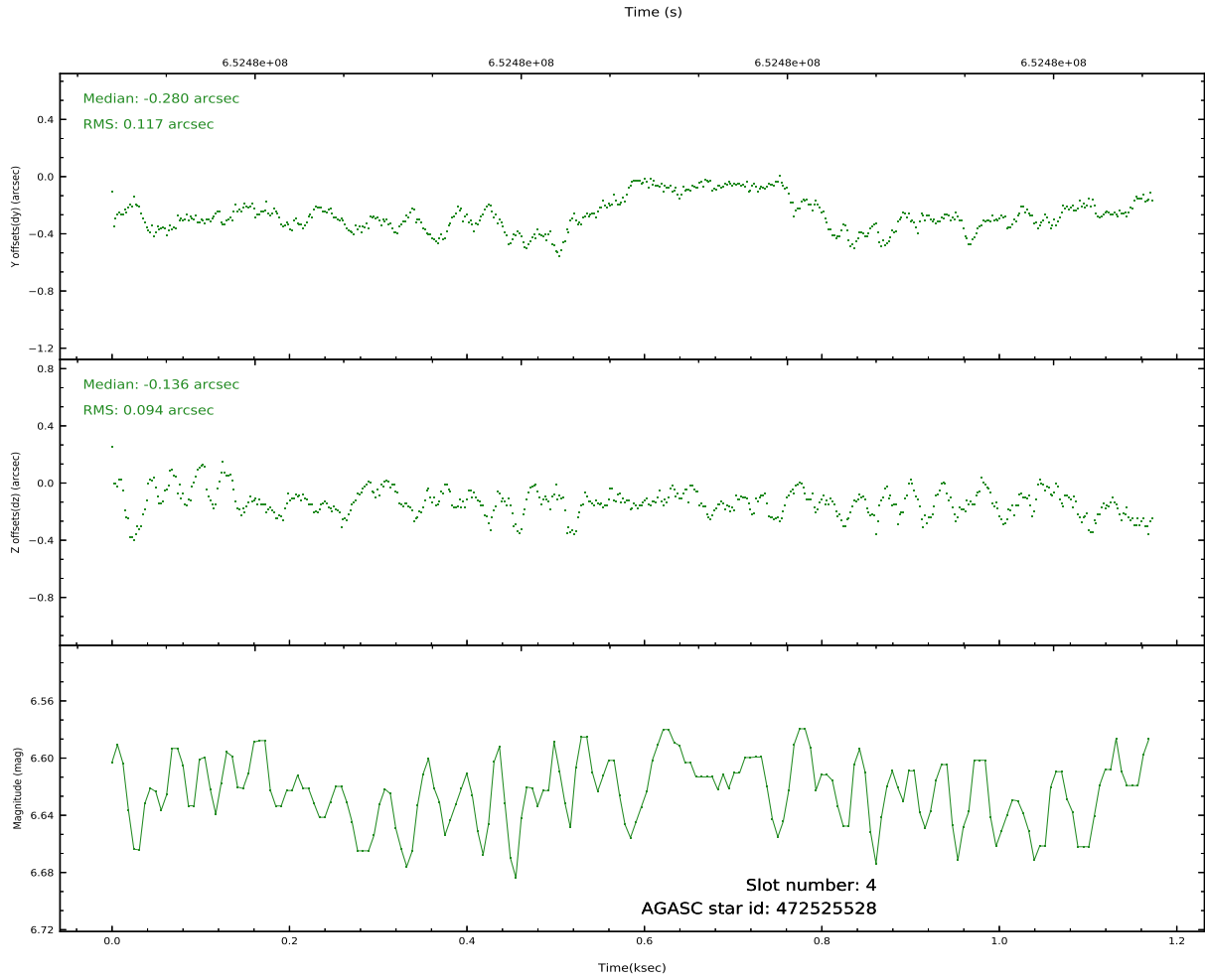
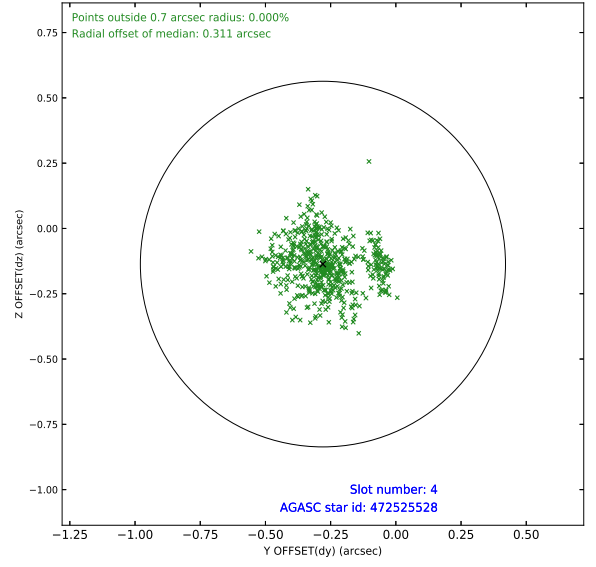
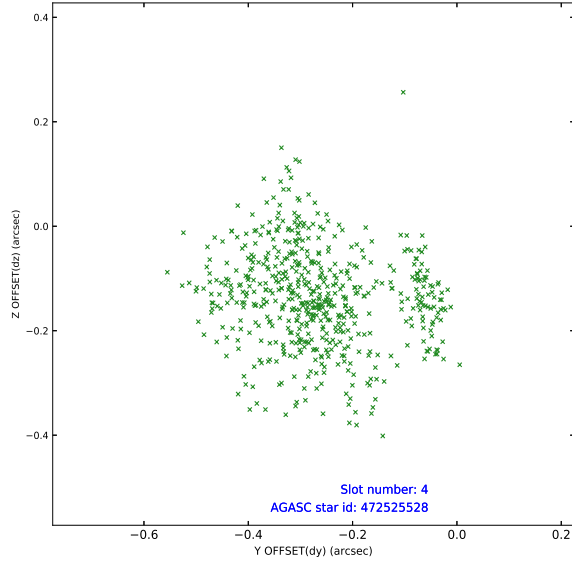
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		HRC-S-1	7.02	286	1.000	0.106	-0.201	0.007	0.010	0.000000	0.000000	-1172.38	-466
1	FID		HRC-S-2	6.98	287	1.000	0.259	-0.145	0.005	0.012	0.000000	0.000000	1223.35	-461
2	FID		HRC-S-3	7.01	287	1.000	0.025	0.045	0.007	0.012	0.000000	0.000000	-1170.79	561
3	GUIDE	used	472523760	8.20	572	1.000	-0.098	-0.113	0.100	0.174	331.645363	45.403260	1758.50	901
4	GUIDE	used	472525528	6.62	573	1.000	-0.280	-0.136	0.167	0.247	331.551102	45.248694	2128.99	1383
5	GUIDE	used	472533912	9.11	571	1.000	0.001	0.015	0.194	0.384	331.791136	46.368695	557.63	-2376
6	GUIDE	used	472655152	9.39	571	1.000	0.058	0.077	0.215	0.386	332.504239	45.862991	-737.02	-189
7	GUIDE	used	472665256	8.94	572	1.000	0.332	0.150	0.150	0.274	332.808125	46.195041	-1756.44	-1170

2.4 Star Slots

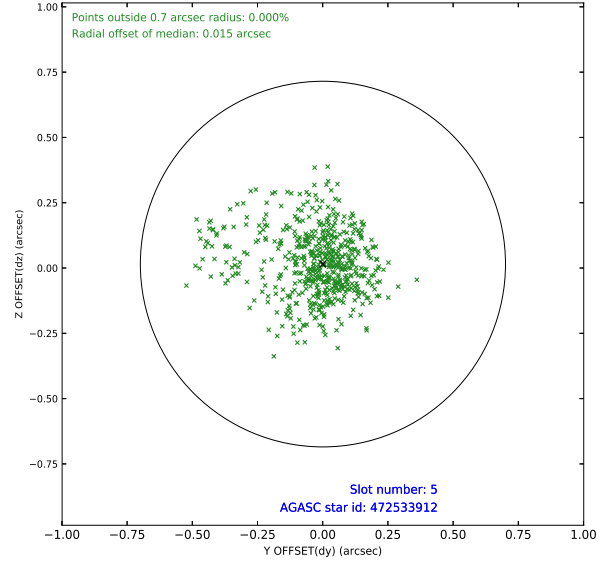
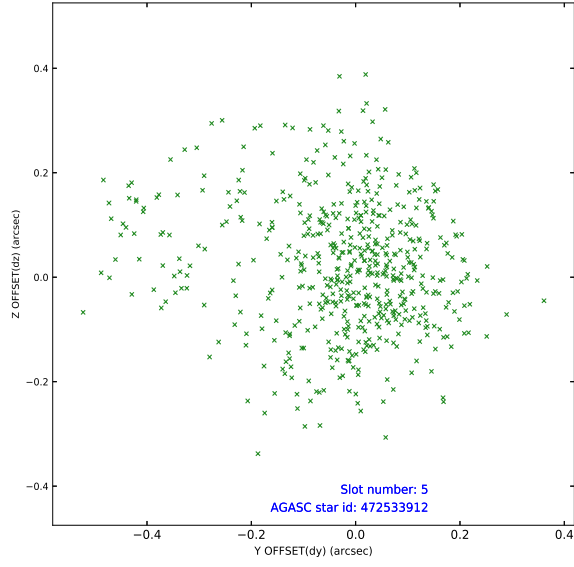
2.4.1 Slot 3



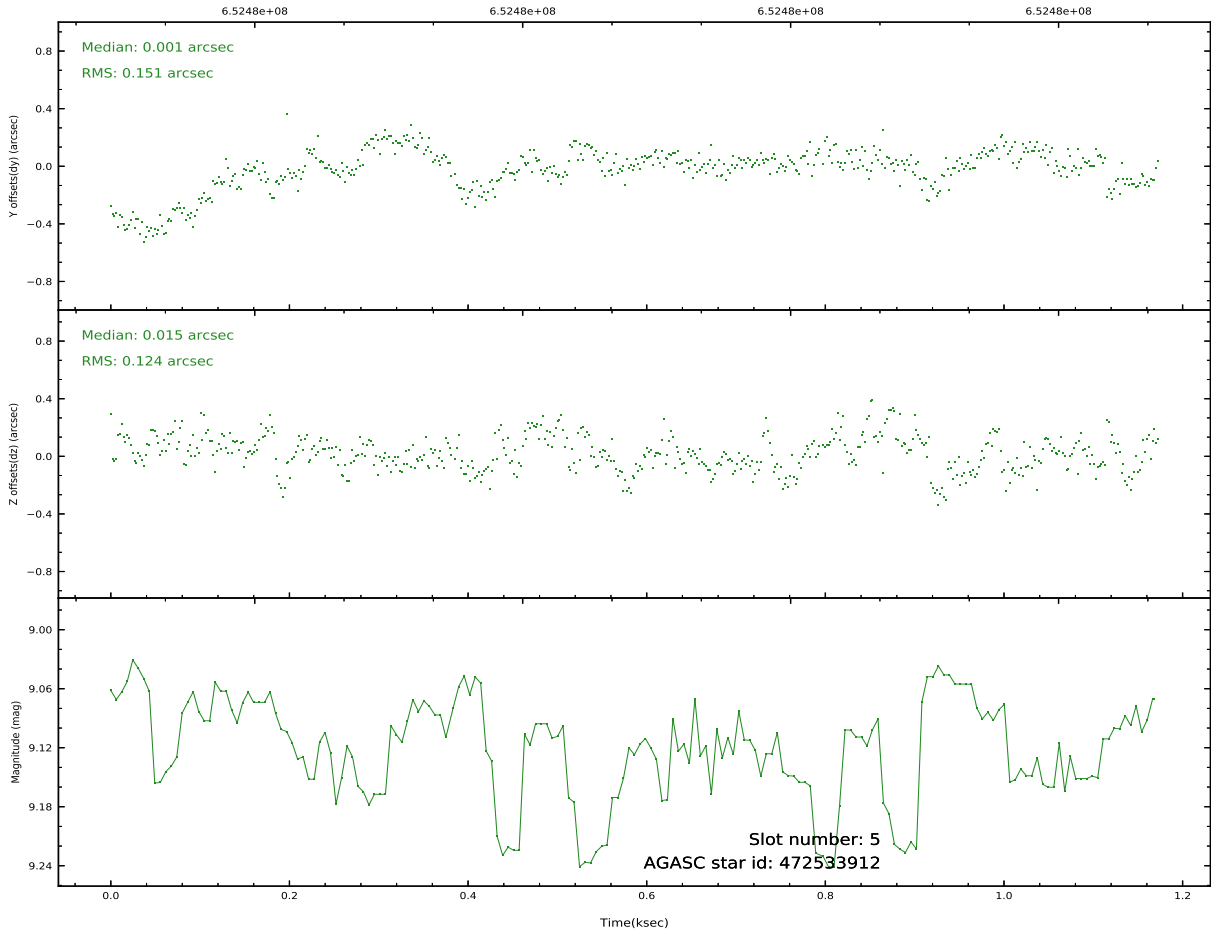
2.4.2 Slot 4



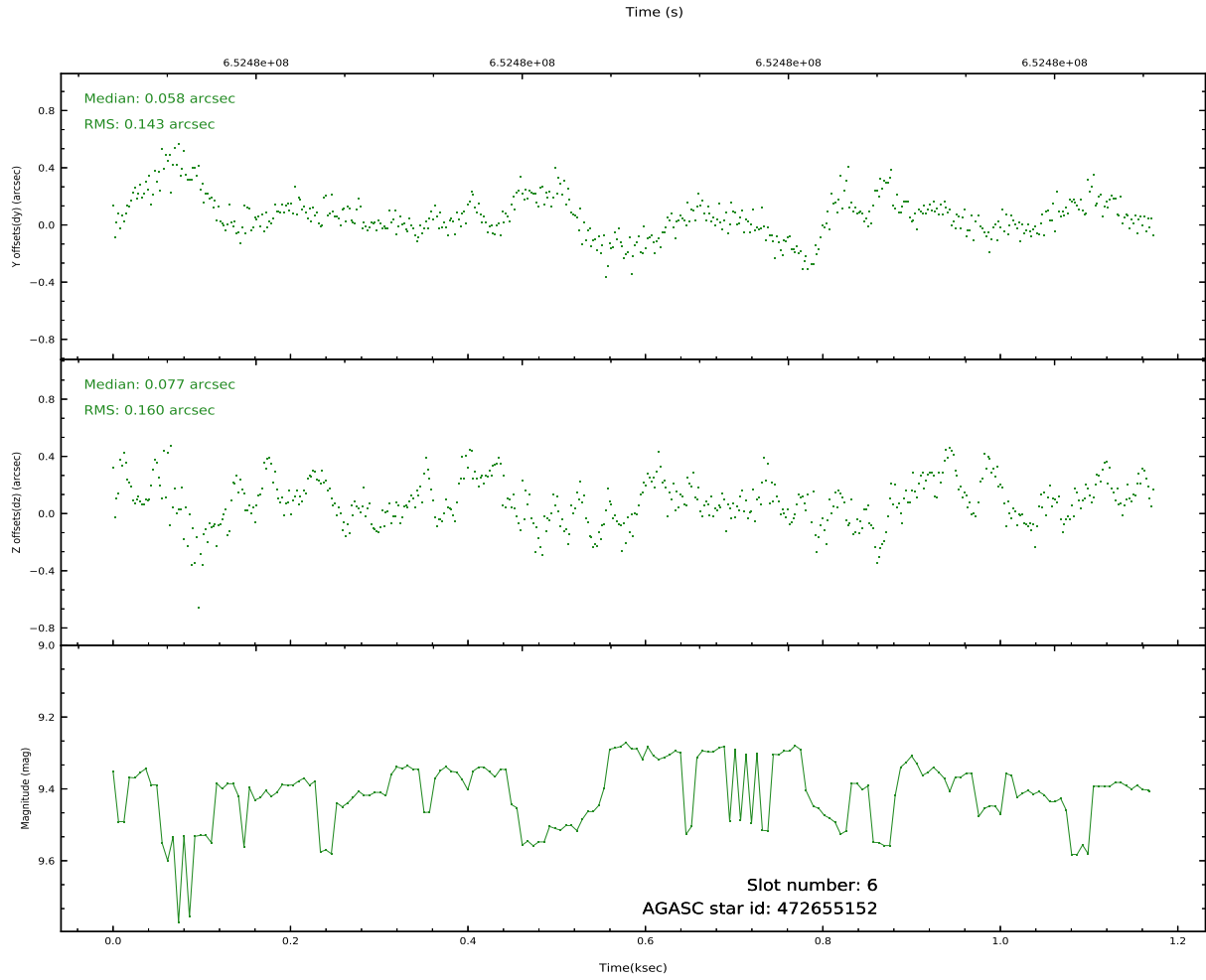
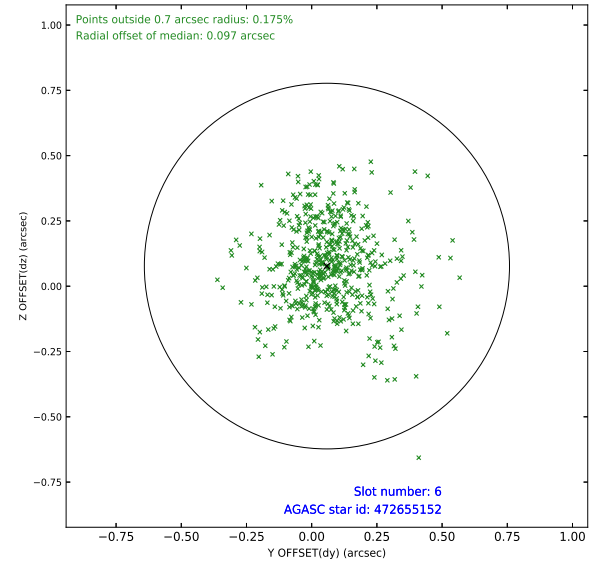
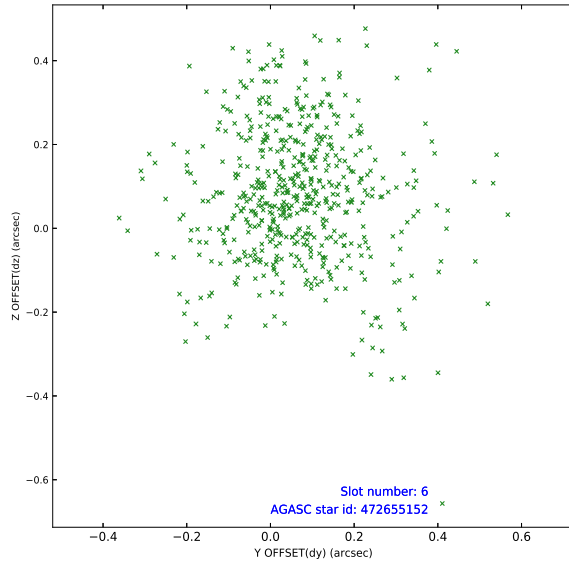
2.4.3 Slot 5



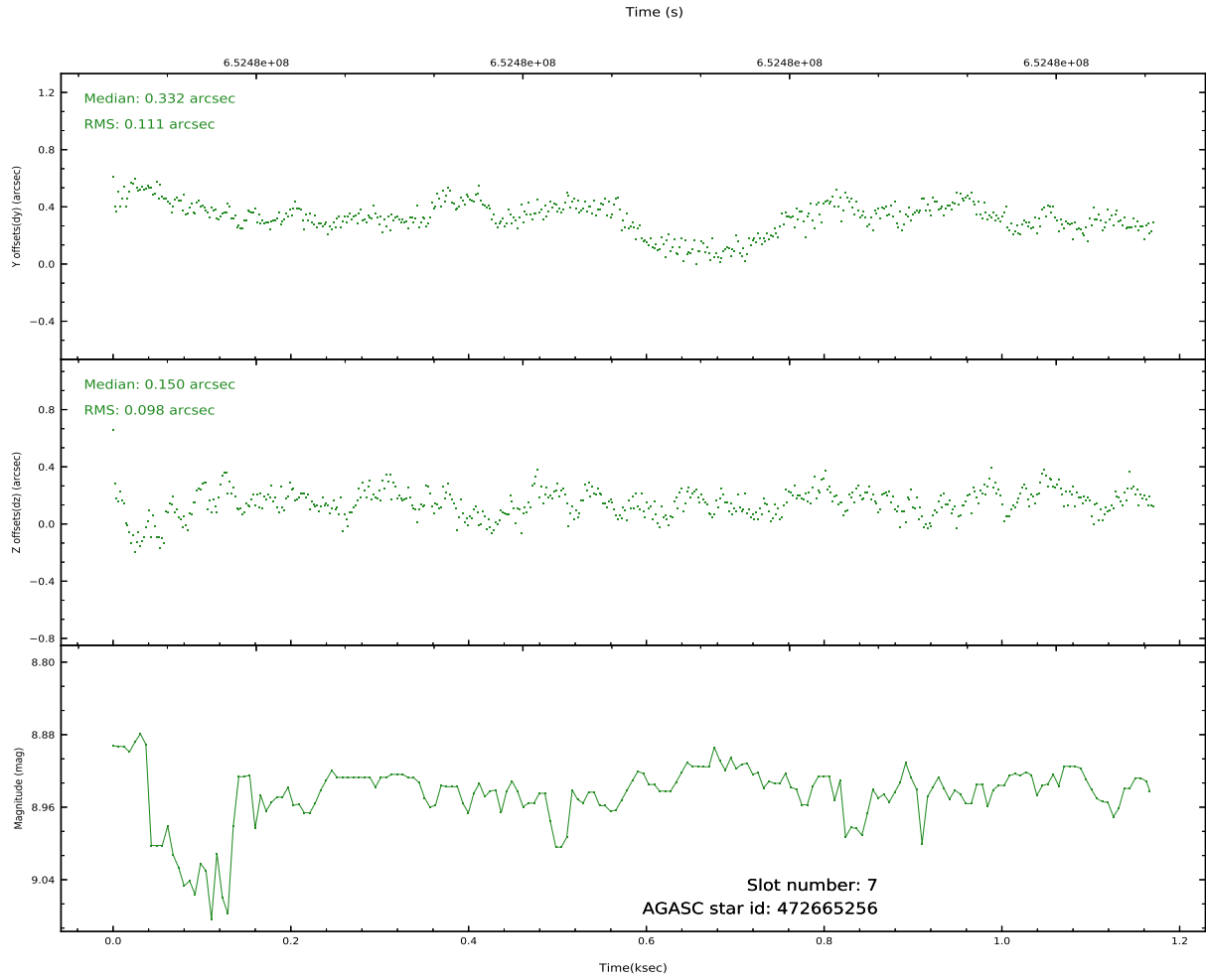
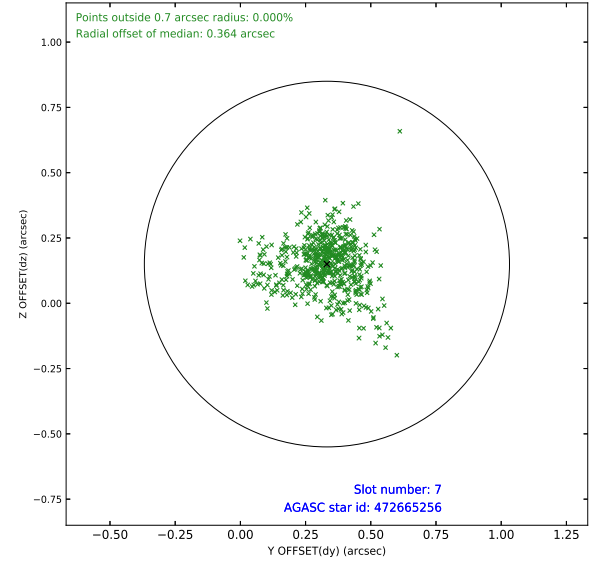
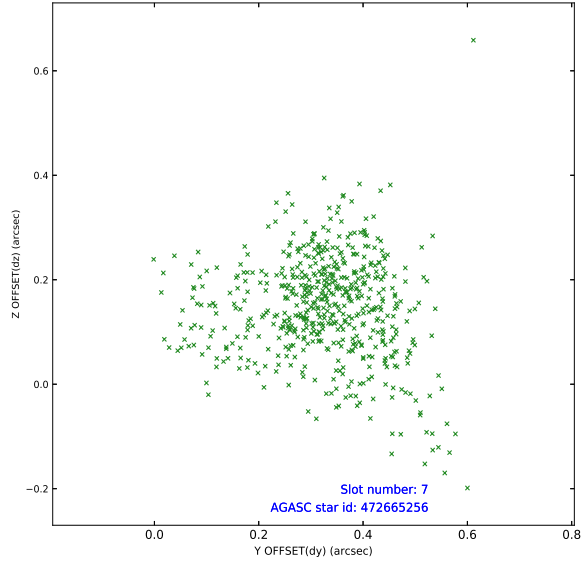
Time (s)



2.4.4 Slot 6

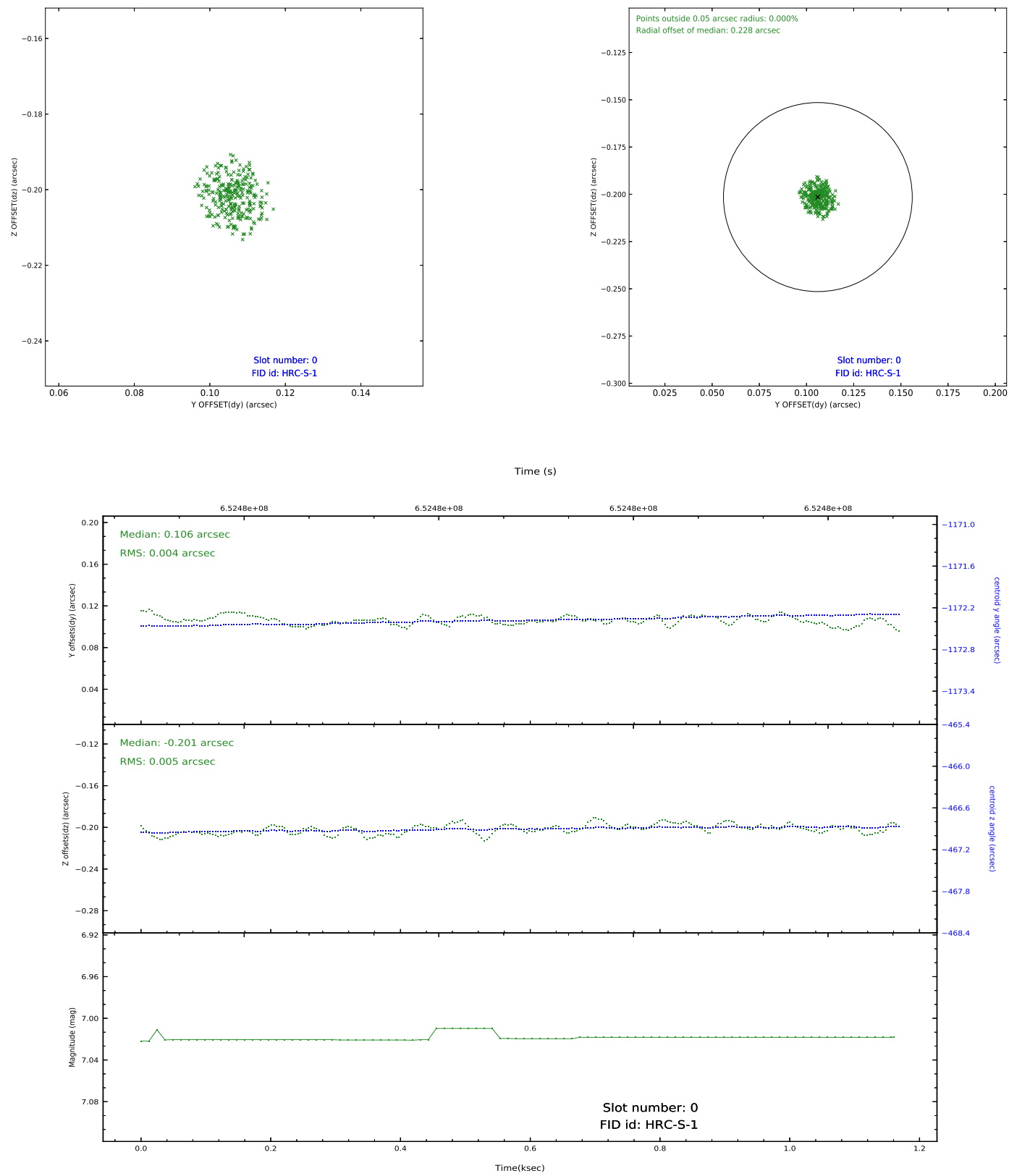


2.4.5 Slot 7

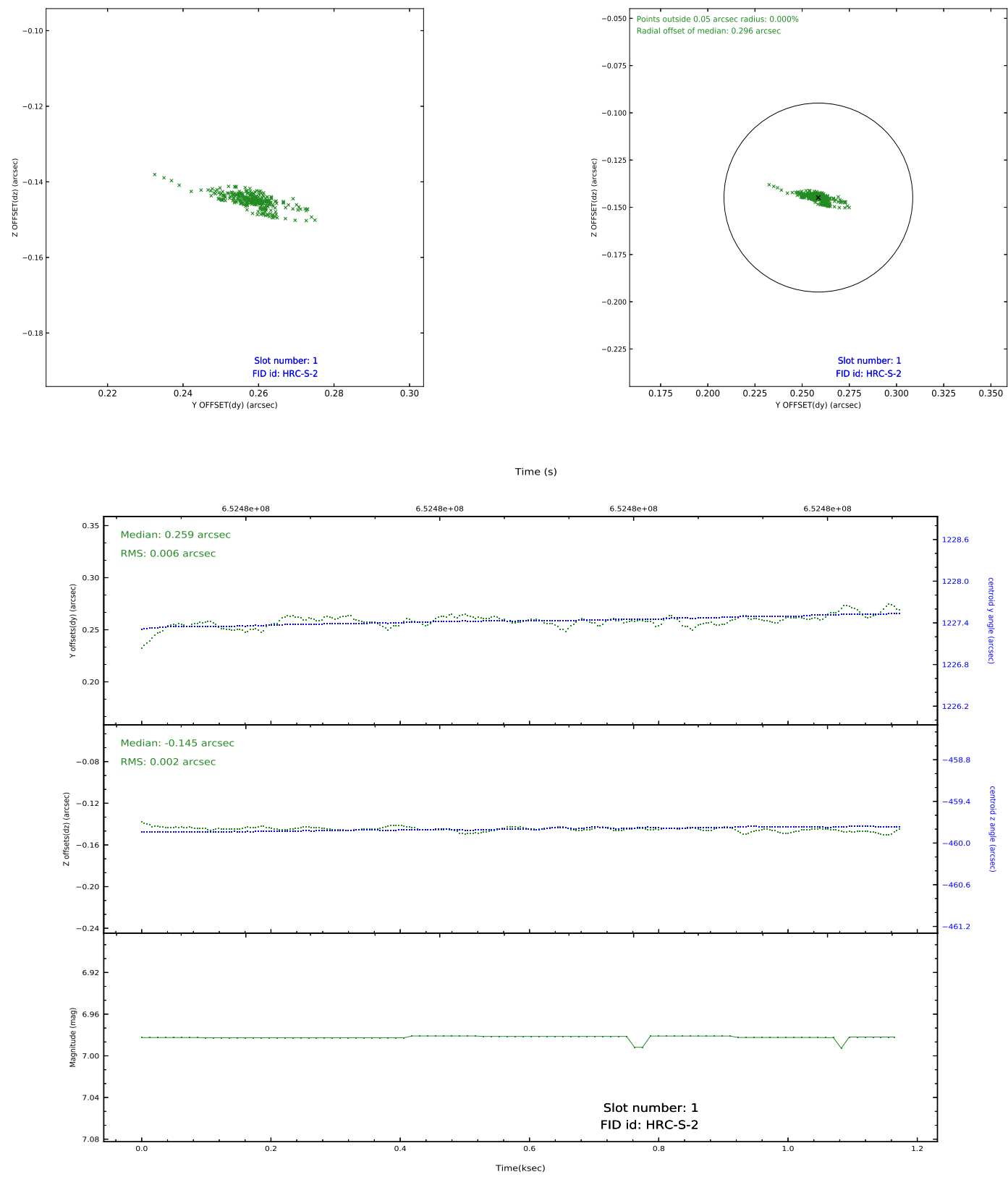


2.5 FID Slots

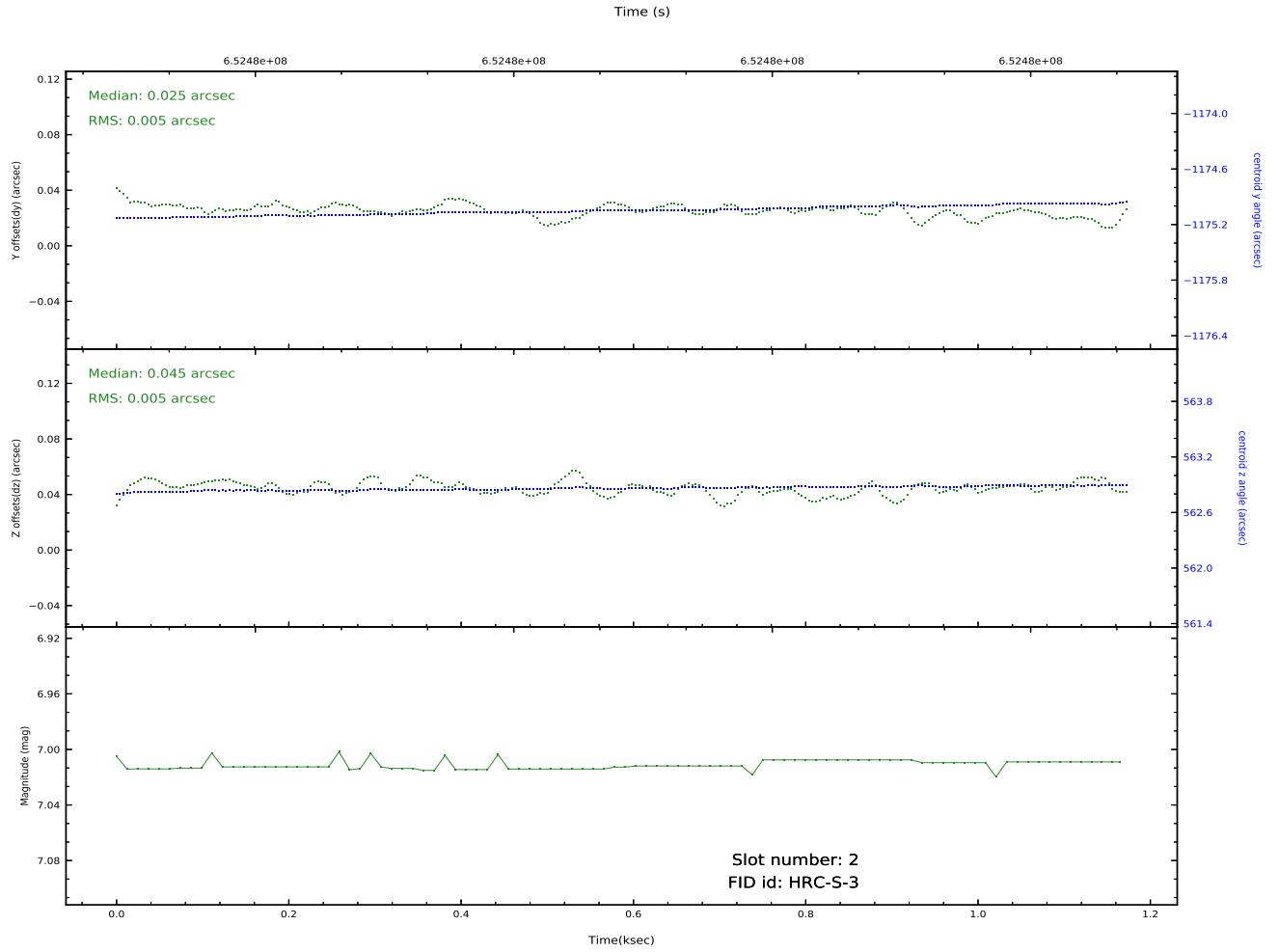
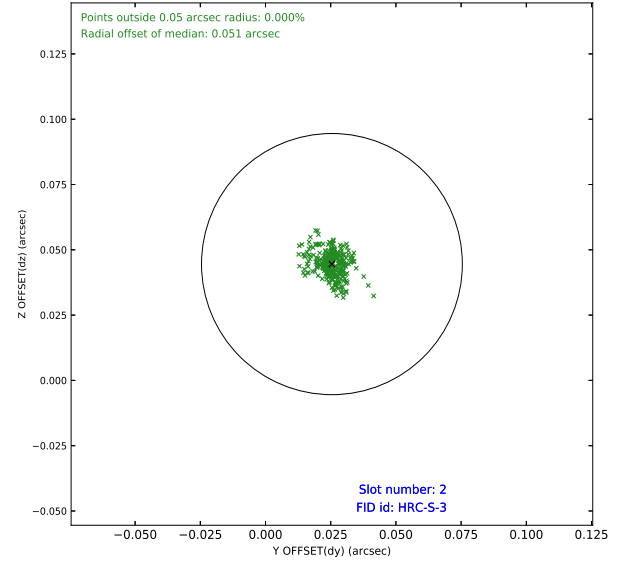
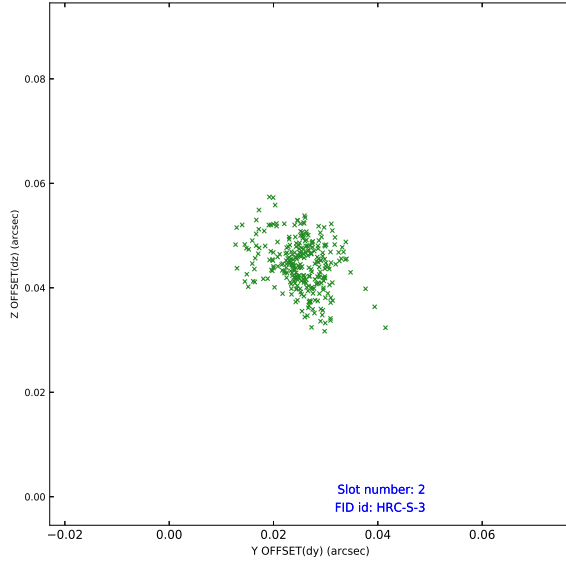
2.5.1 Slot 0



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)	2020.10.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.1718313196898

A.2 Comments