

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5293 - L2 Version 5
Chandra X-Ray Center

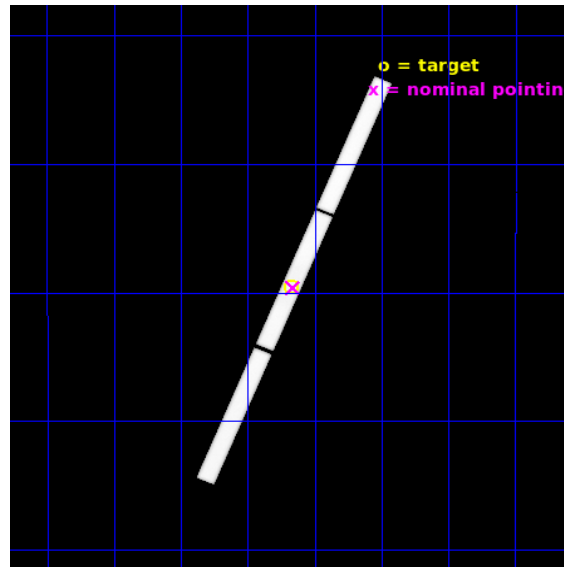
L2 Processing Date : Sep 22 2020

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1 Front

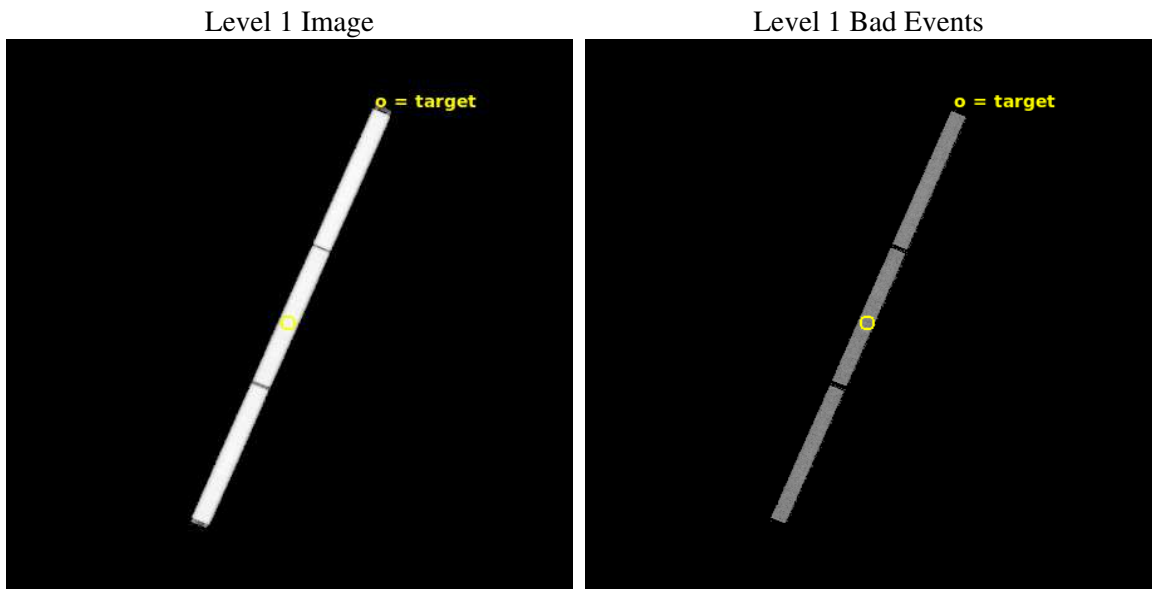
seq_num	300145	Sequence number
obs_id	5293	Observation id
title	Outburst in Mira AB?	Proposal title
observer	Margarita Karovska	Principal investigator
object	Mira AB	Source name
ra_targ	34.836667	Observer's specified target RA [deg]
dec_targ	-2.977639	Observer's specified target Dec [deg]
ra_nom	34.835004312091	Nominal RA [deg]
dec_nom	-2.9809676905039	Nominal Dec [deg]
roll_nom	292.97712121391	Nominal Roll [deg]
revision	5	Processing version of data
ontime	41953.508077592	[s]
livetime	41625.119013931	Ontime multiplied by DTCOR
l2events	2932727	Number of level 2 events



2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Parameters

obi_num	1	Obi number	sched_exp_time	42121.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	41953.508077592	[s]
caldbver	4.9.2	 	l1events	3754407	Number of level 1 events
date	2020-09-22T02:35:27	Date and time of file creation	tgmethod	iPSF	Method used to create src1a file
revision	5	Processing version of data	zo_pos	(32721.50, 32851.50)	src1a sky pixel position

2.1.3 Events

Level 1 Events

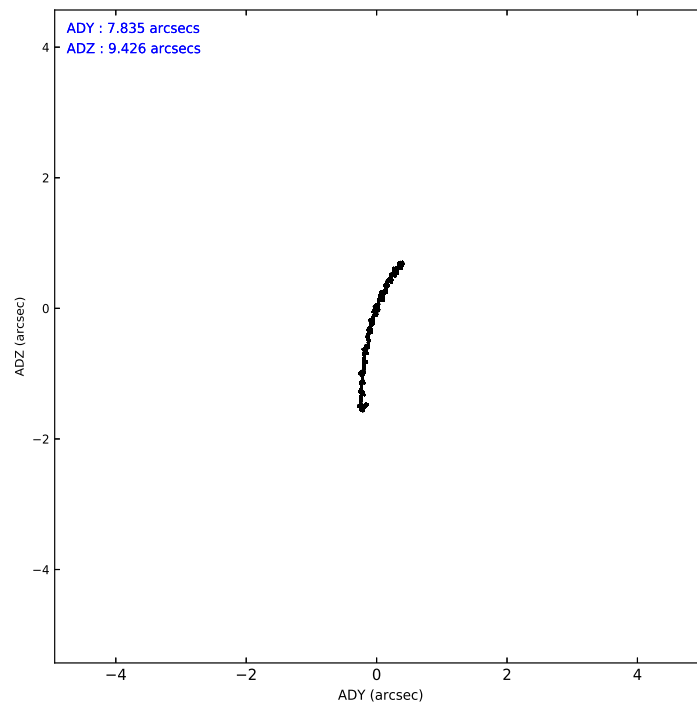
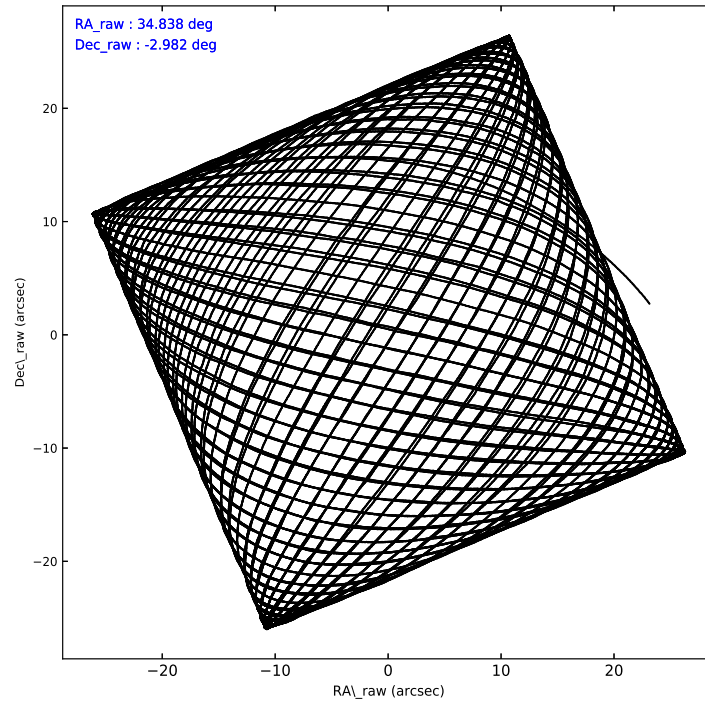
	segment 1	segment 2	segment 3
level 1 events	1322302	1217407	1214698
rejected events	25363	23354	22773
rejected %	1%	1%	1%

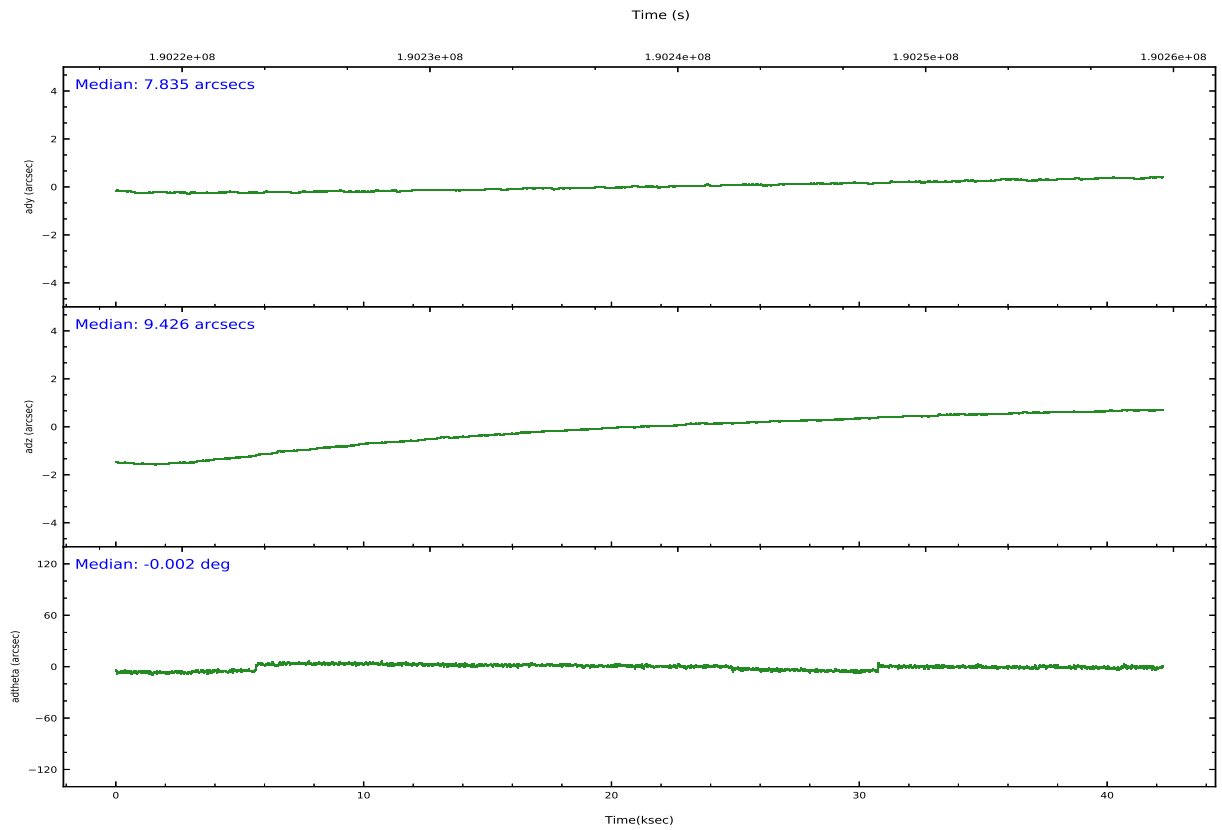
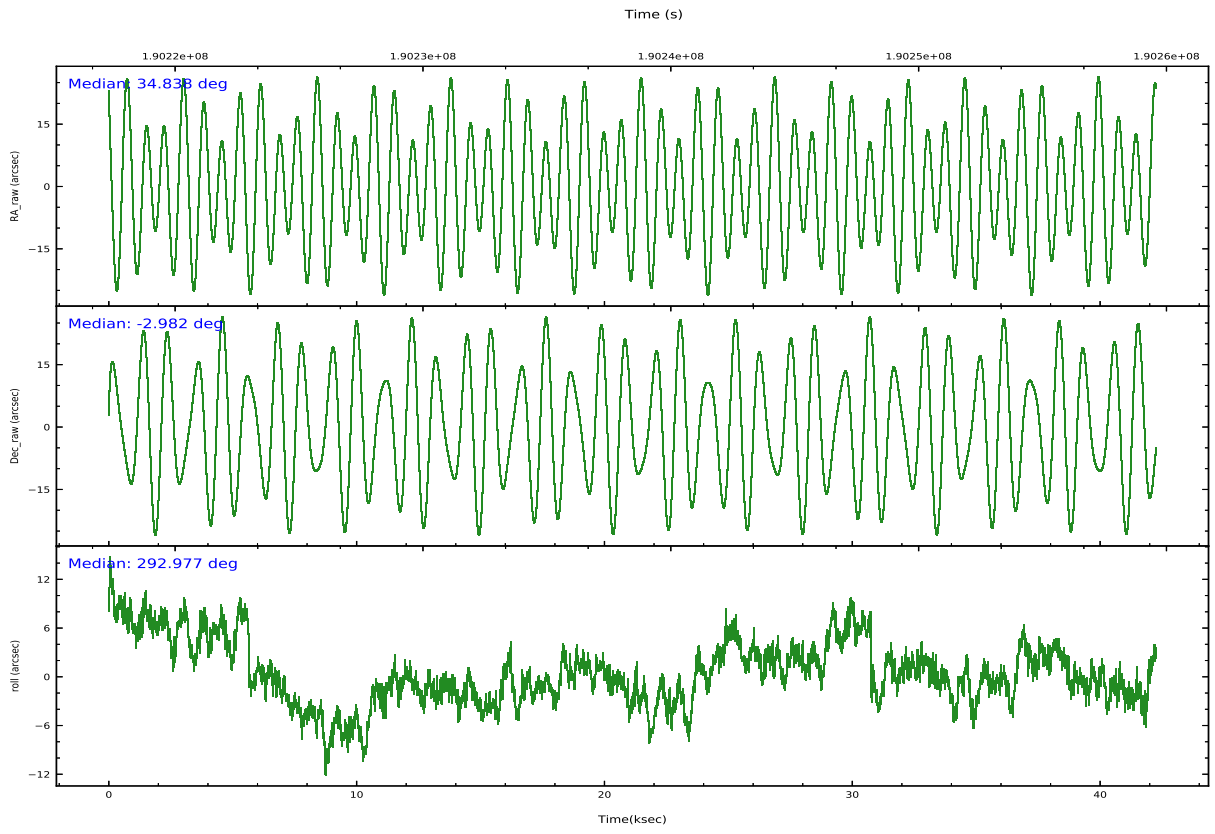
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	HRC	HRC
Detector	HRC-S	HRC-S
Grating	LETG	LETG
Data mode	OBSERVING	OBSERVING
Observation mode	POINTING	POINTING
[deg] Pointing RA	34.814673	34.835004312091
[deg] Pointing Dec	-2.965930	-2.9809676905039
[deg] Pointing Roll	292.911287	292.97712121391
[mm] SIM focus pos	-1.429586	-1.428180813131781
[mm] SIM defocus	0.1037507710433287	0.1051558262725154
[mm] SIM translation stage pos	250.455976	250.4635187648994
[mm] SIM translation stage offset	0	-0.007540371344731511
[s] Observation start time (MET)	190217463.184000	190216340.45023
Observation start date	2004-01-11T14:09:59	2004-01-11T13:52:20
[s] Observation end time (MET)	190259584.184000	190260245.30214
Observation end date	2004-01-12T01:52:00	2004-01-12T02:04:05

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

2.3 Aspect





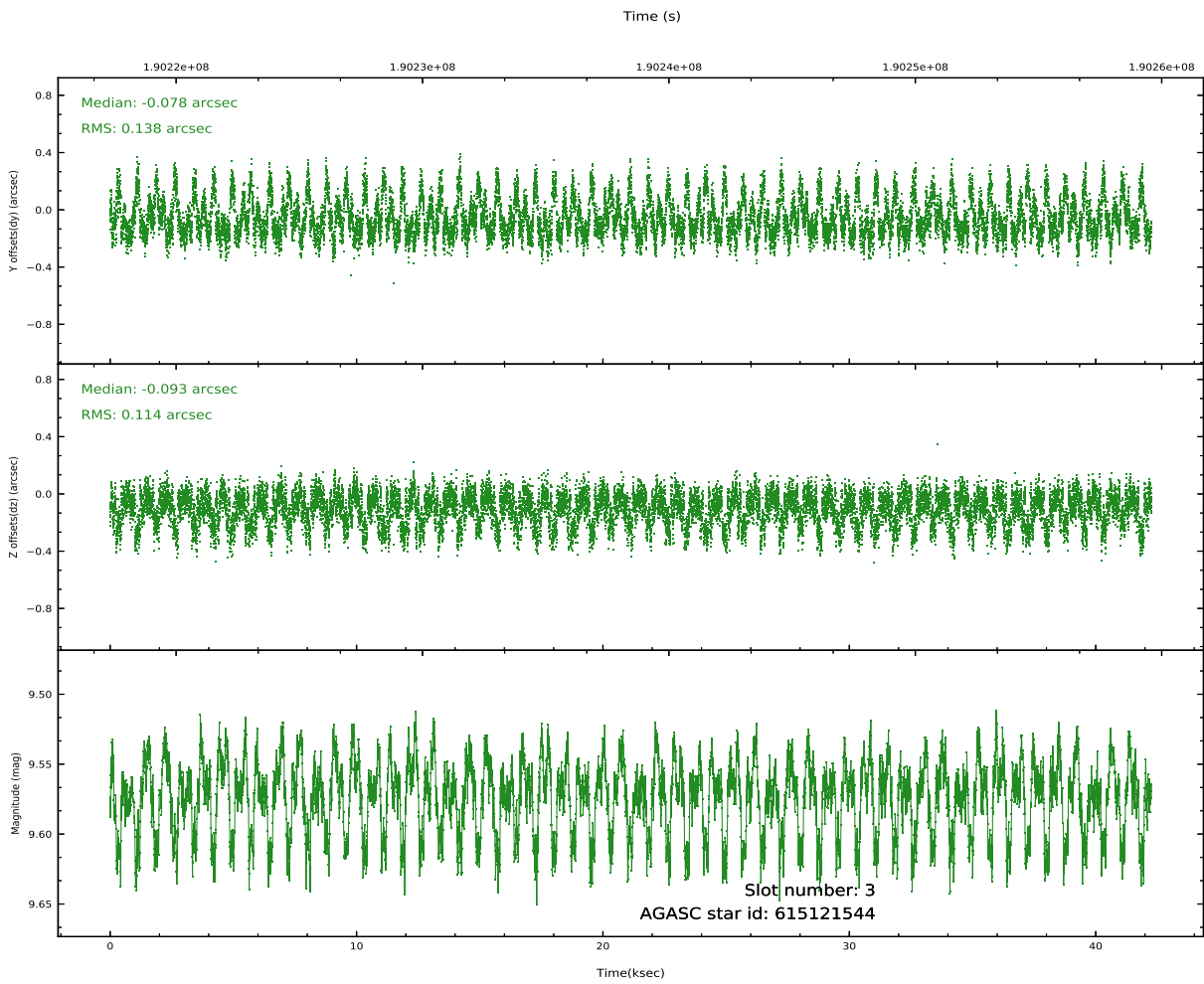
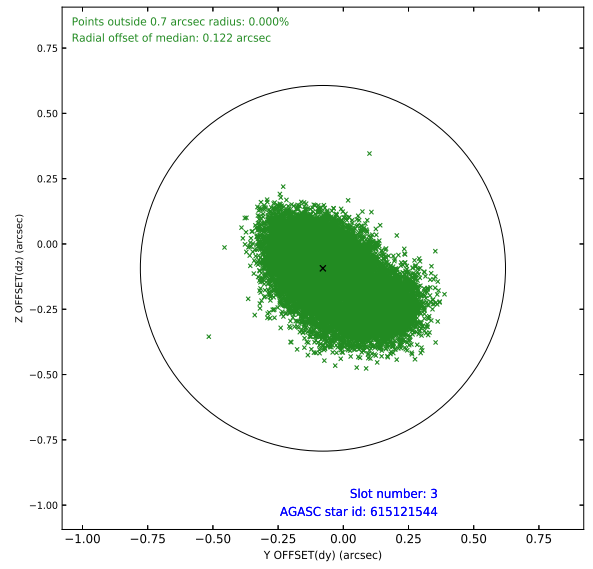
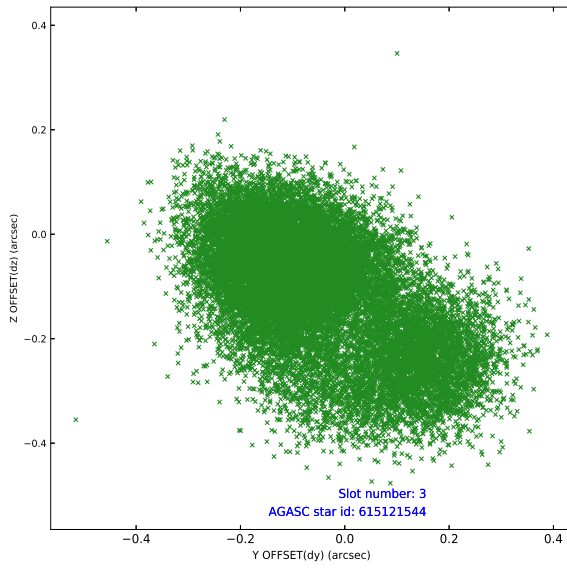
Slot Statistics

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	6.98	10308	1.000	0.093	-0.195	0.026	0.067	0.000000	0.000000	-1162.08	-457
1	FID		HRC-S-3	7.00	10308	1.000	0.059	-0.018	0.027	0.074	0.000000	0.000000	-1164.93	571
2	FID		HRC-S-4	6.96	10307	1.000	0.237	-0.084	0.009	0.016	0.000000	0.000000	1236.23	574
3	GUIDE	used	615121544	9.57	20610	1.000	-0.078	-0.093	0.183	0.330	34.477810	-2.784253	-1073.31	-860
4	GUIDE	used	615128744	9.72	20593	1.000	0.138	-0.093	0.119	0.200	34.665081	-3.483267	1506.70	-1219
5	GUIDE	used	615258928	9.97	20561	1.000	0.259	0.203	0.172	0.278	35.464337	-3.241835	1825.42	1764
6	GUIDE	used	614734344	8.70	20609	1.000	-0.258	0.174	0.090	0.146	34.946145	-2.225313	-2271.74	1473
7	GUIDE	used	615121360	9.69	20601	1.000	-0.084	-0.171	0.157	0.257	34.206276	-2.936187	-949.28	-1973

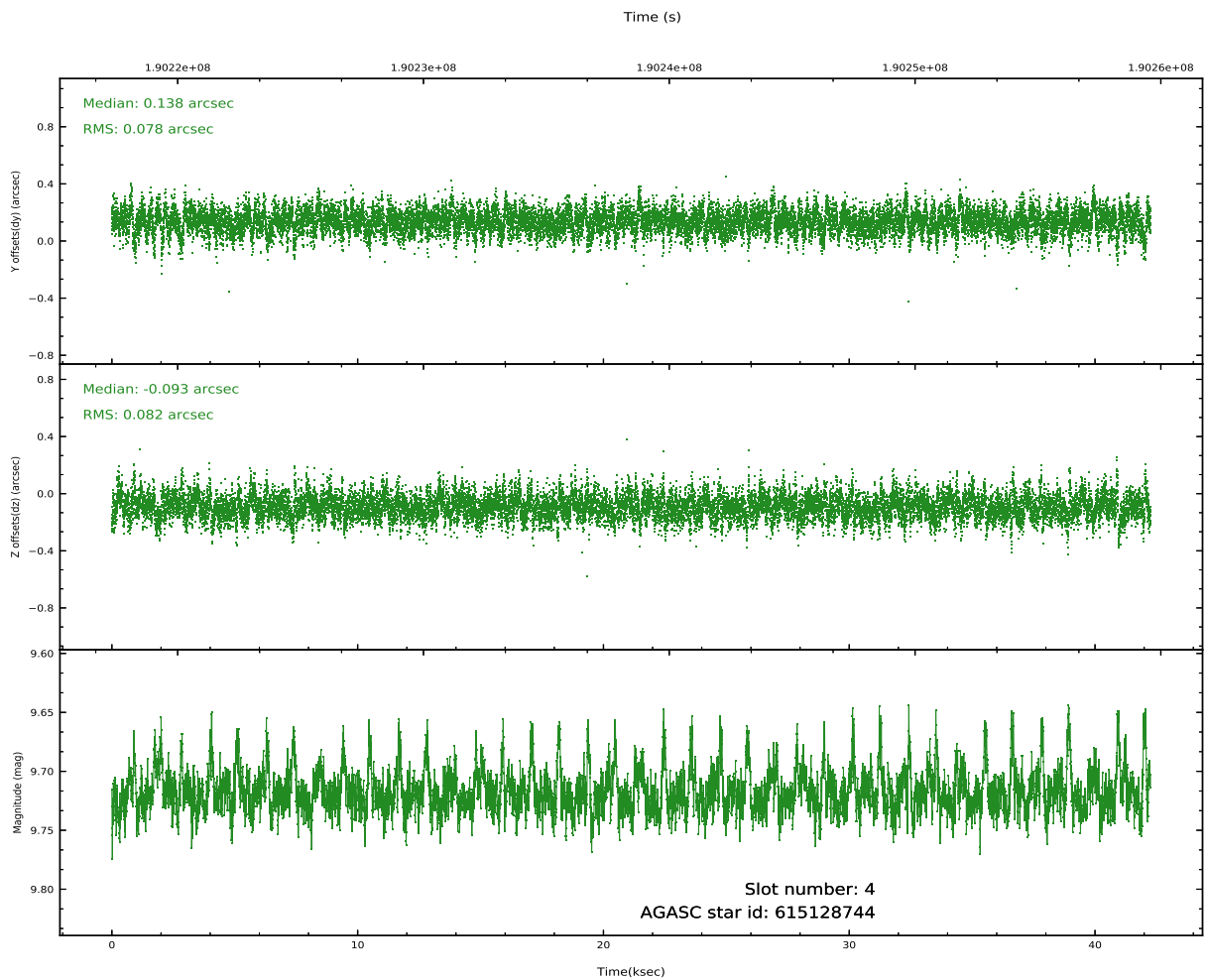
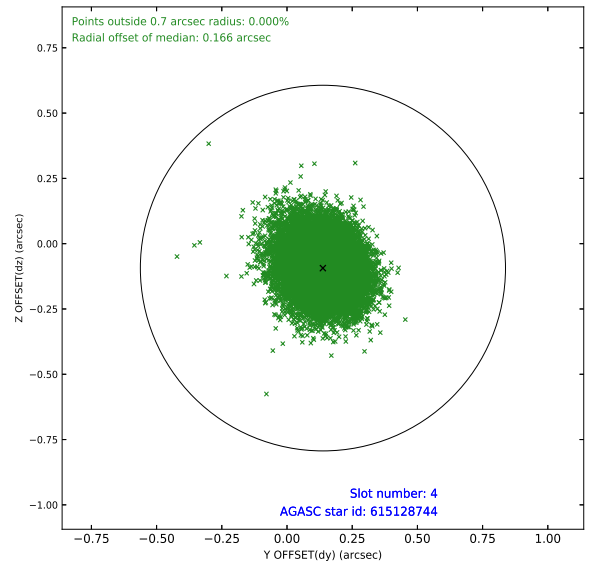
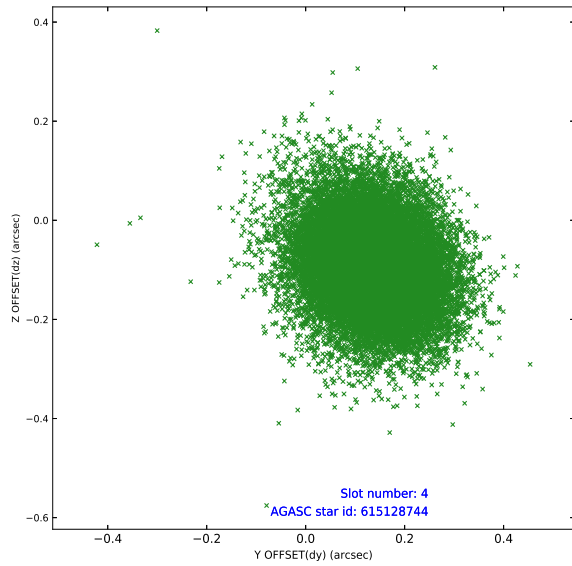
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2.4 Star Slots

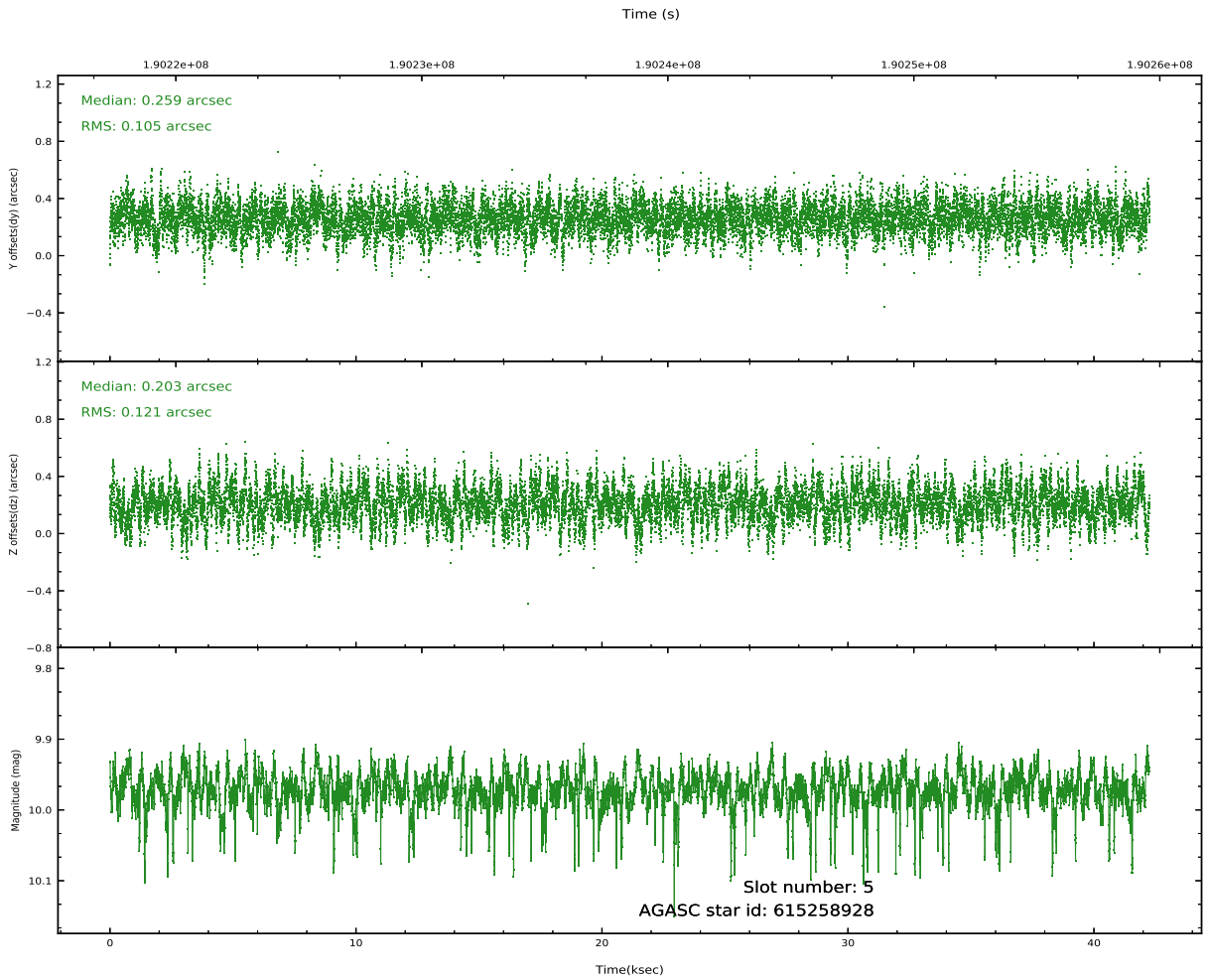
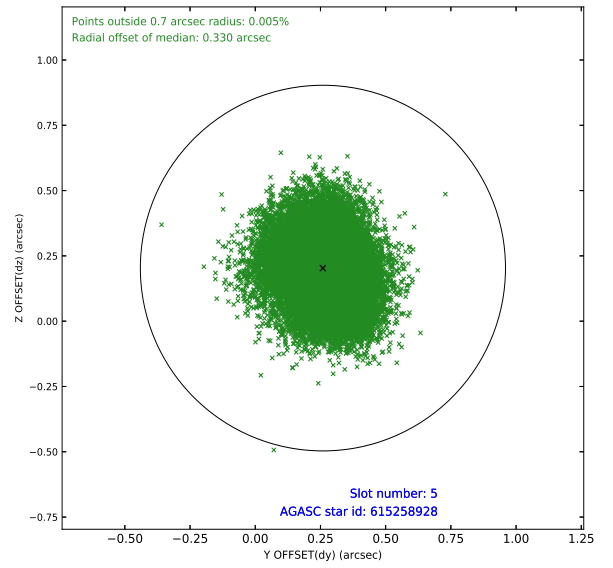
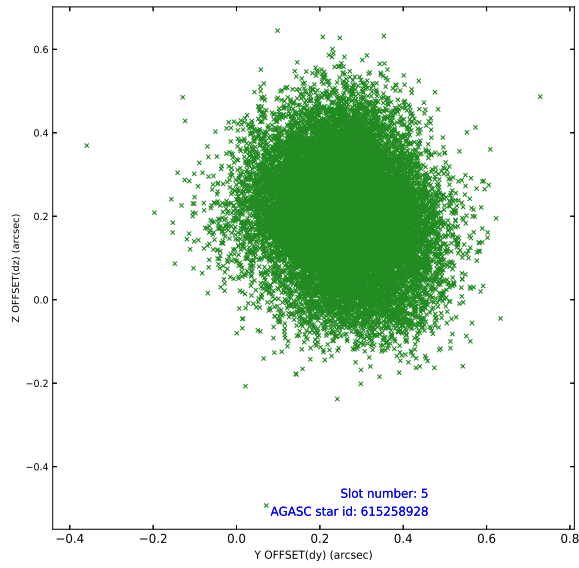
2.4.1 Slot 3



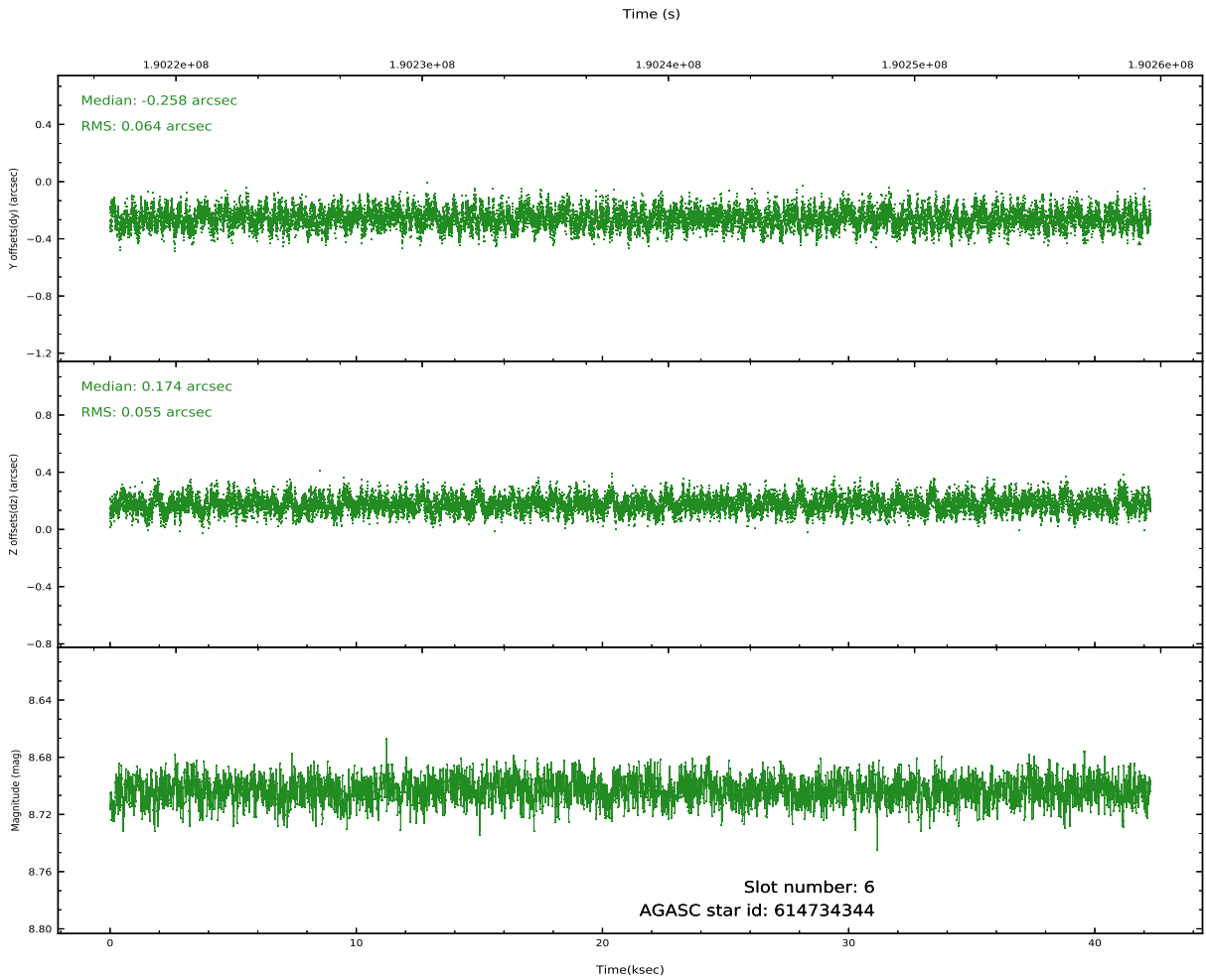
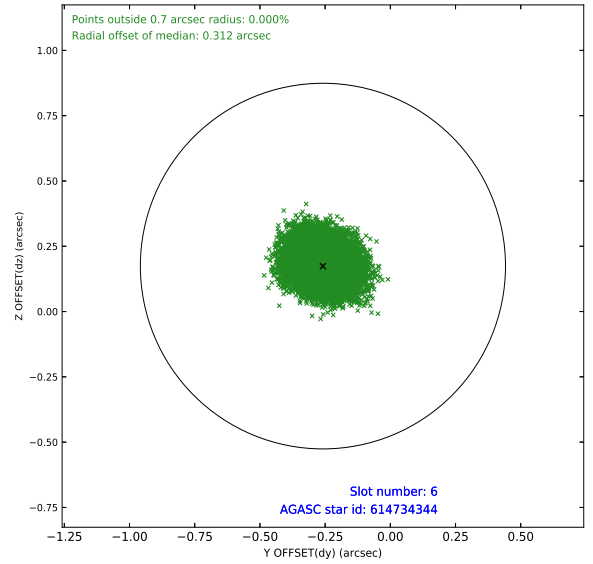
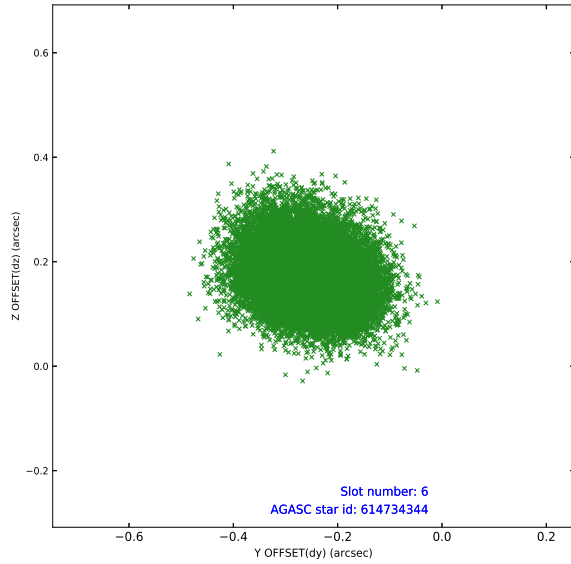
2.4.2 Slot 4



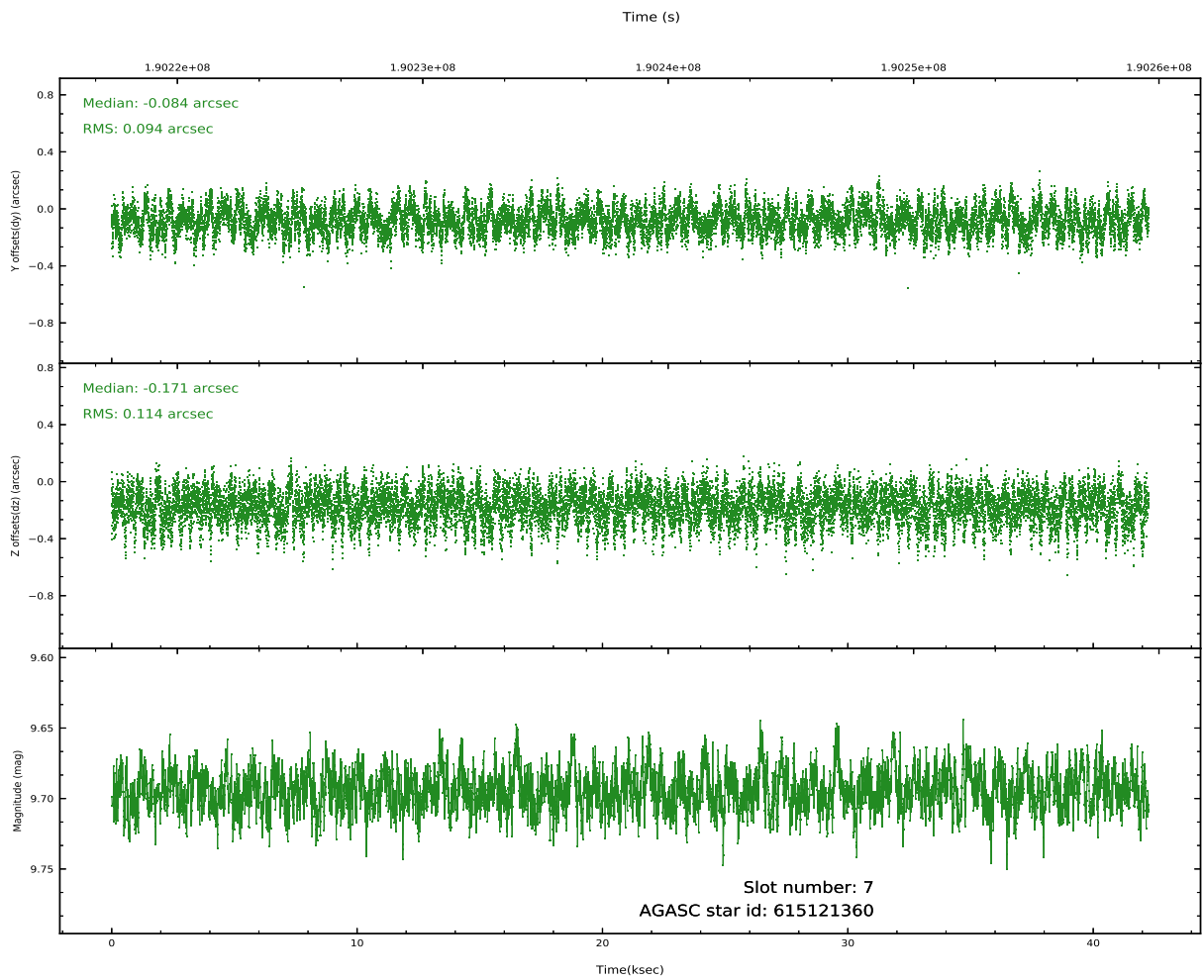
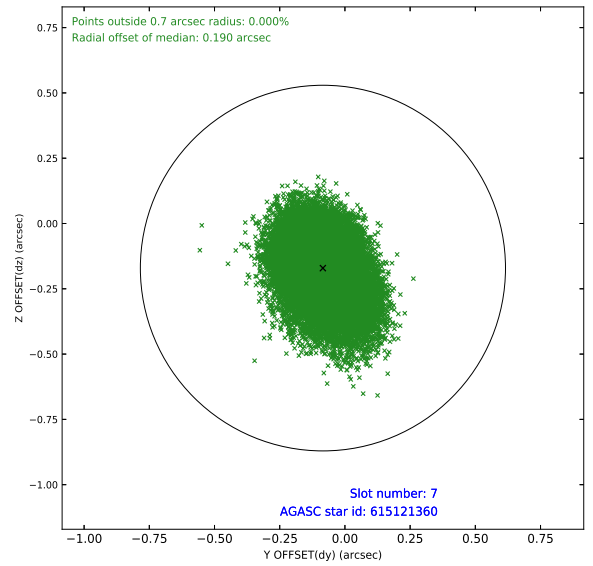
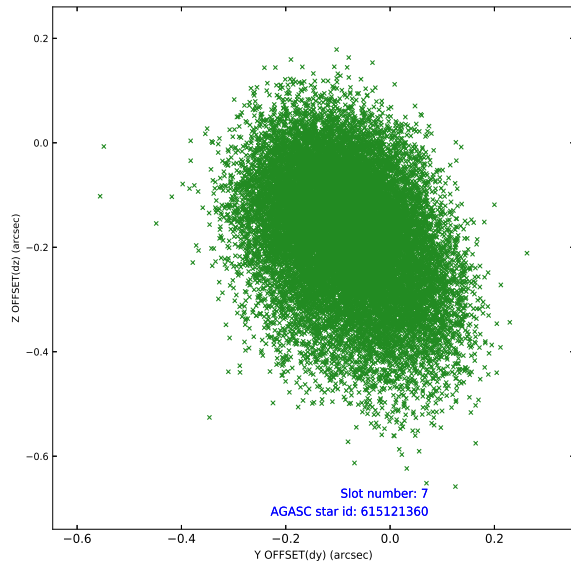
2.4.3 Slot 5



2.4.4 Slot 6

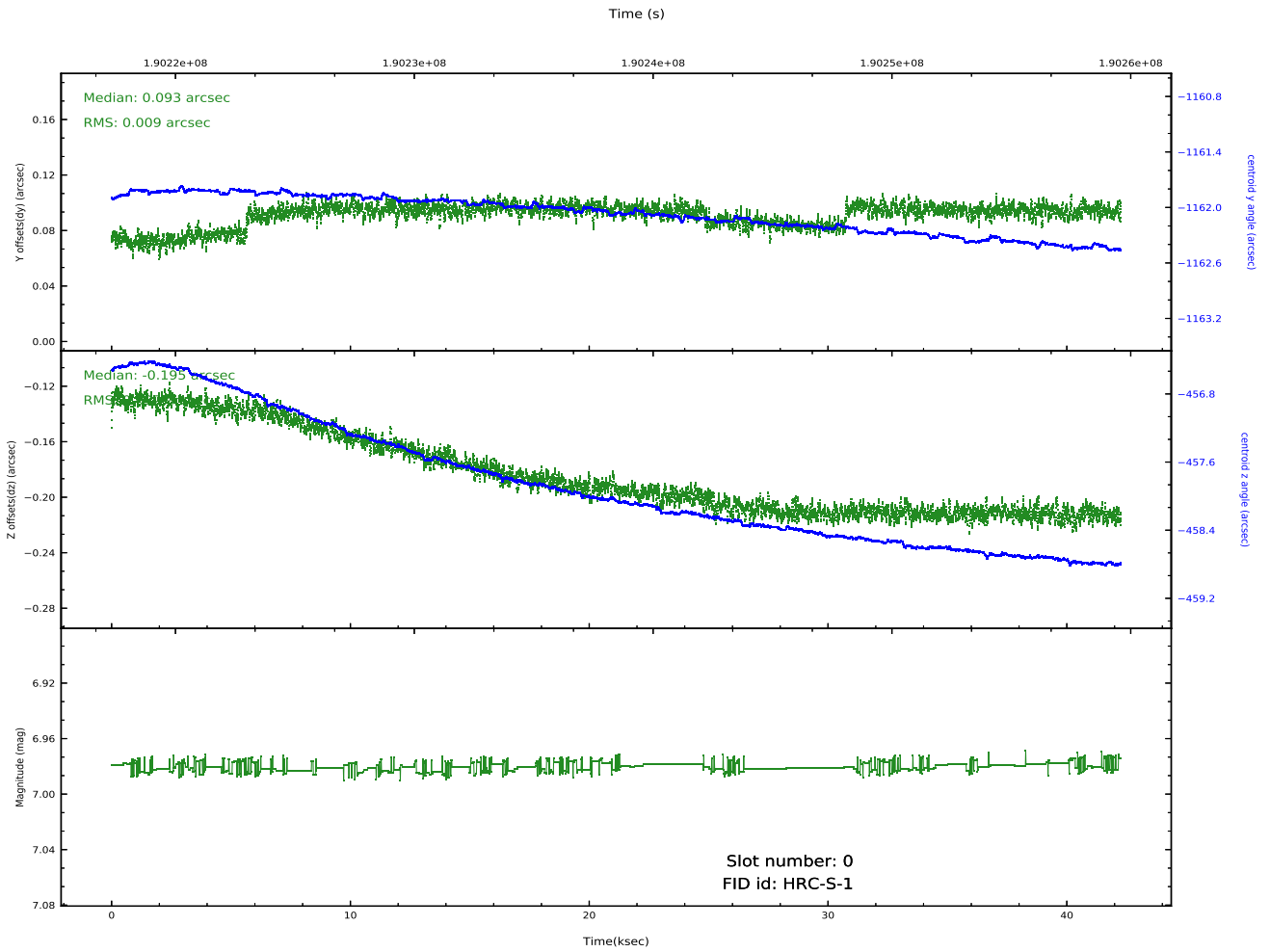
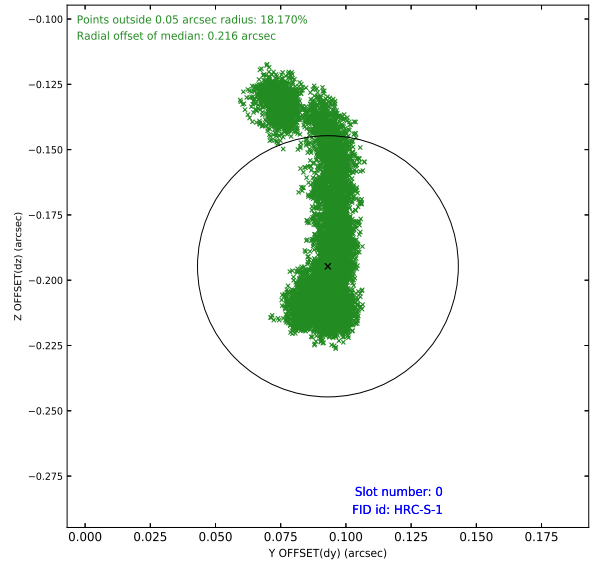
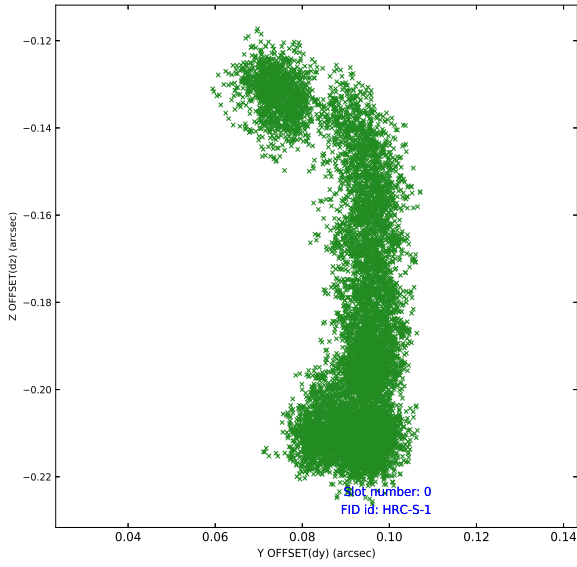


2.4.5 Slot 7

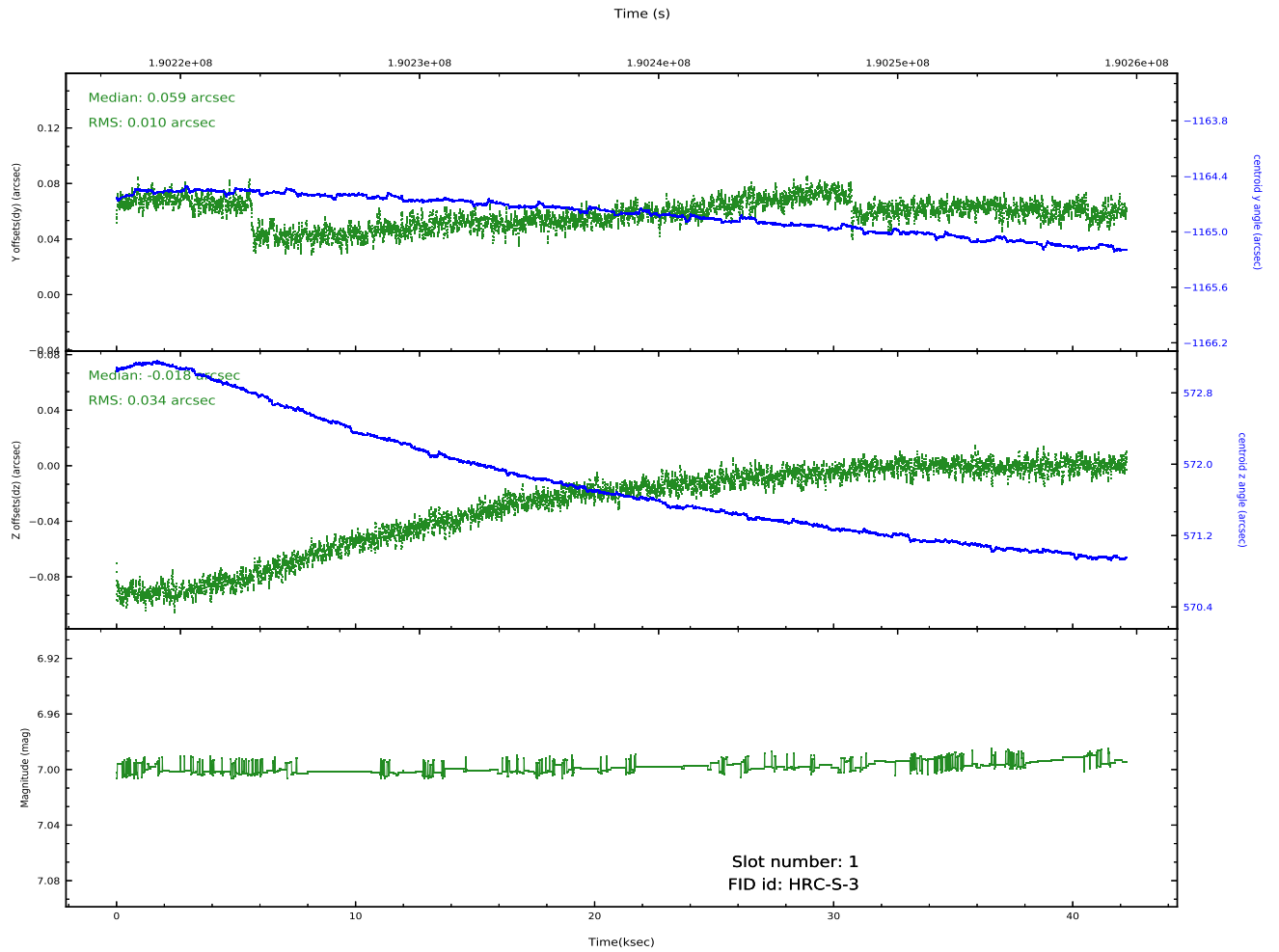
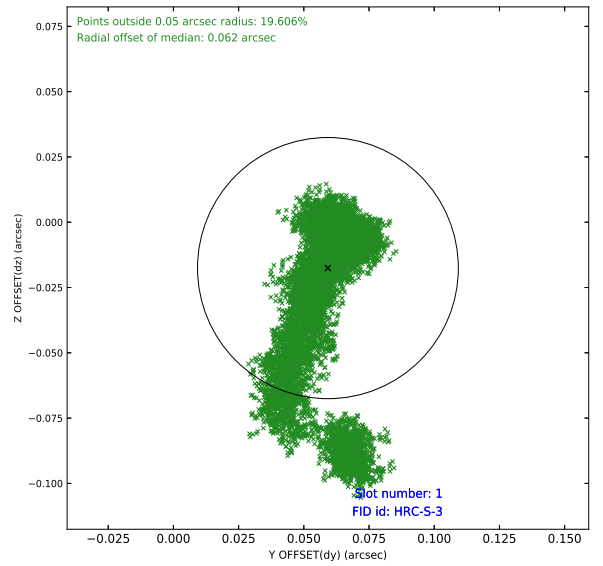
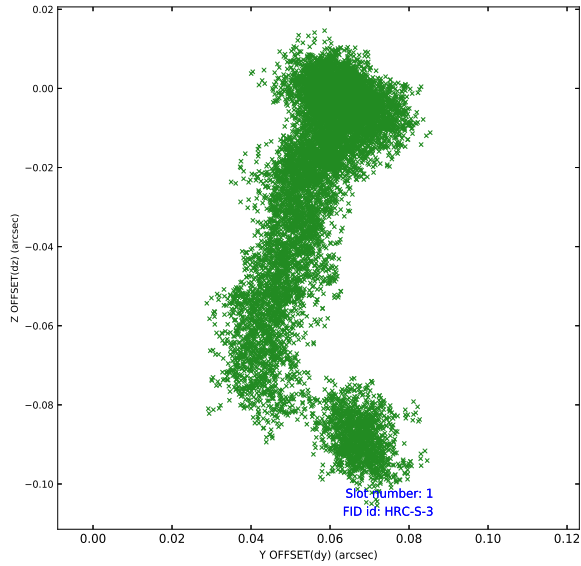


2.5 FID Slots

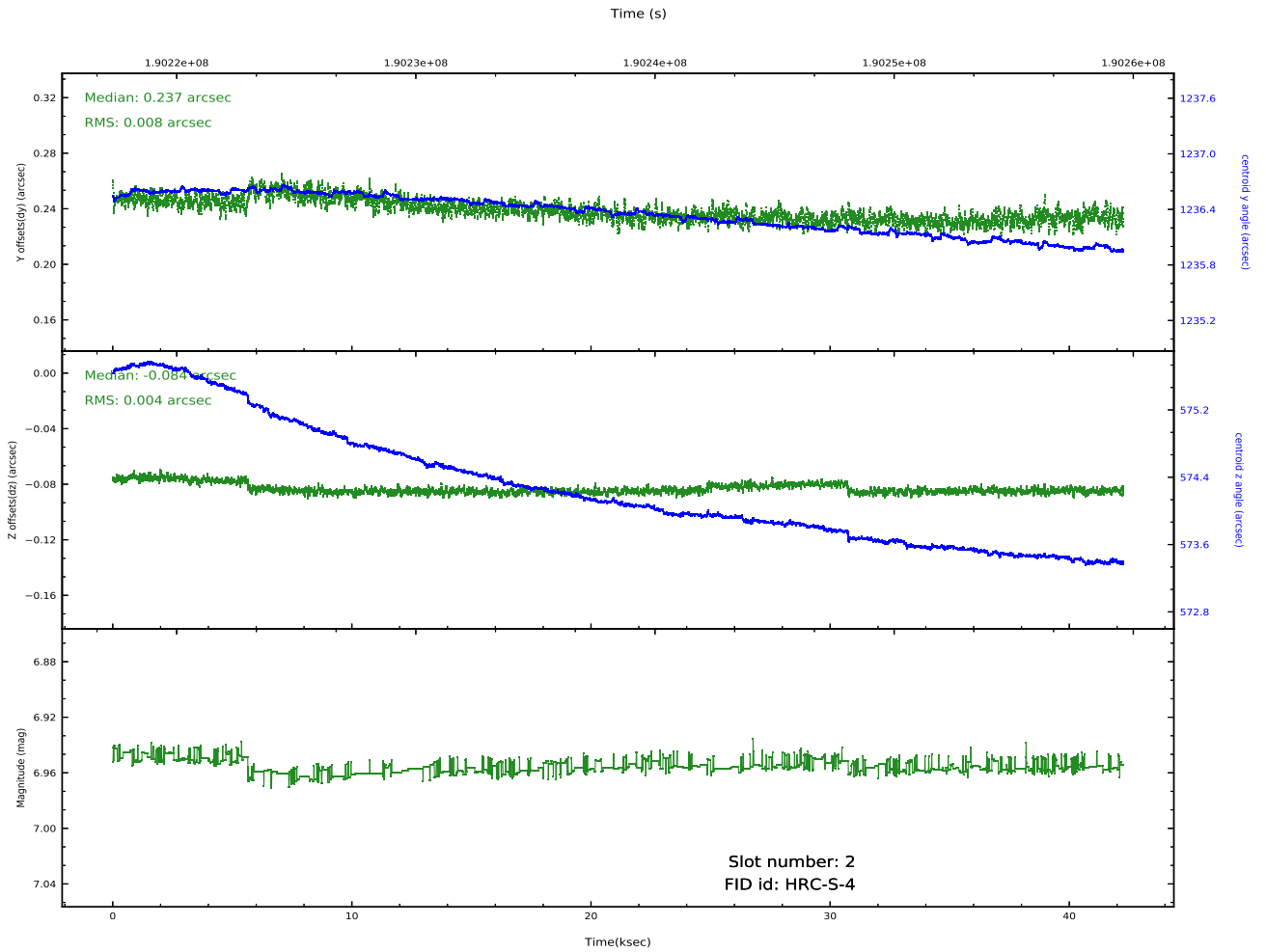
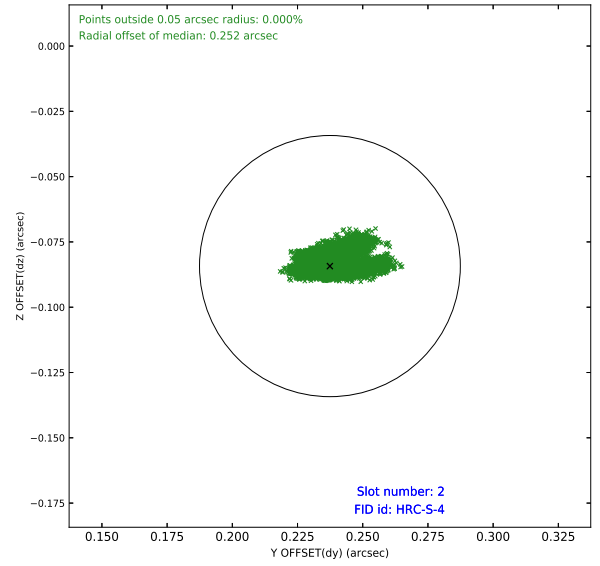
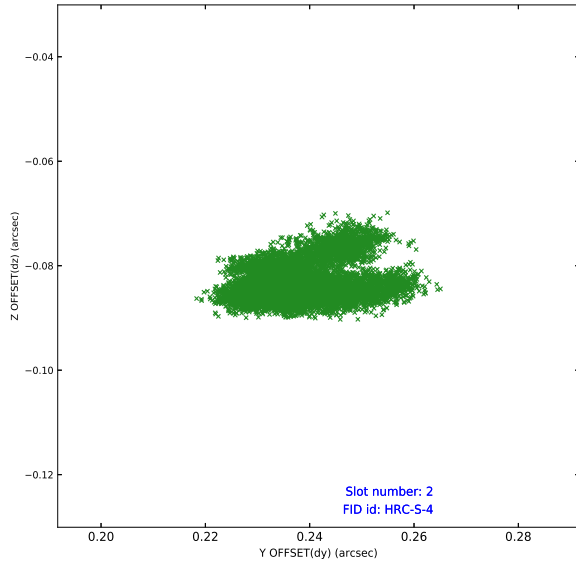
2.5.1 Slot 0



2.5.2 Slot 1

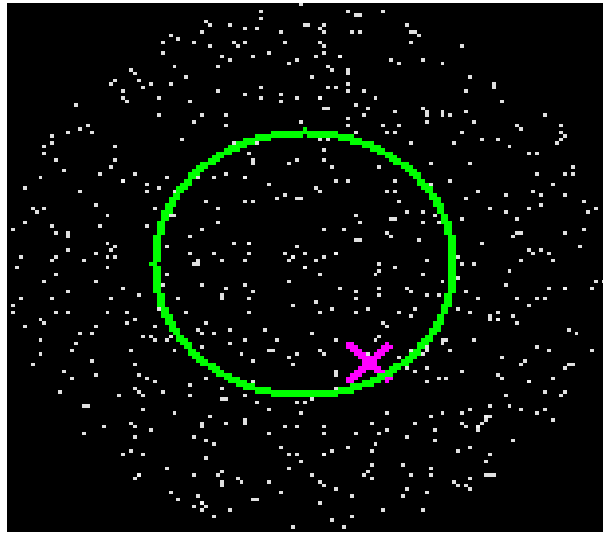


2.5.3 Slot 2

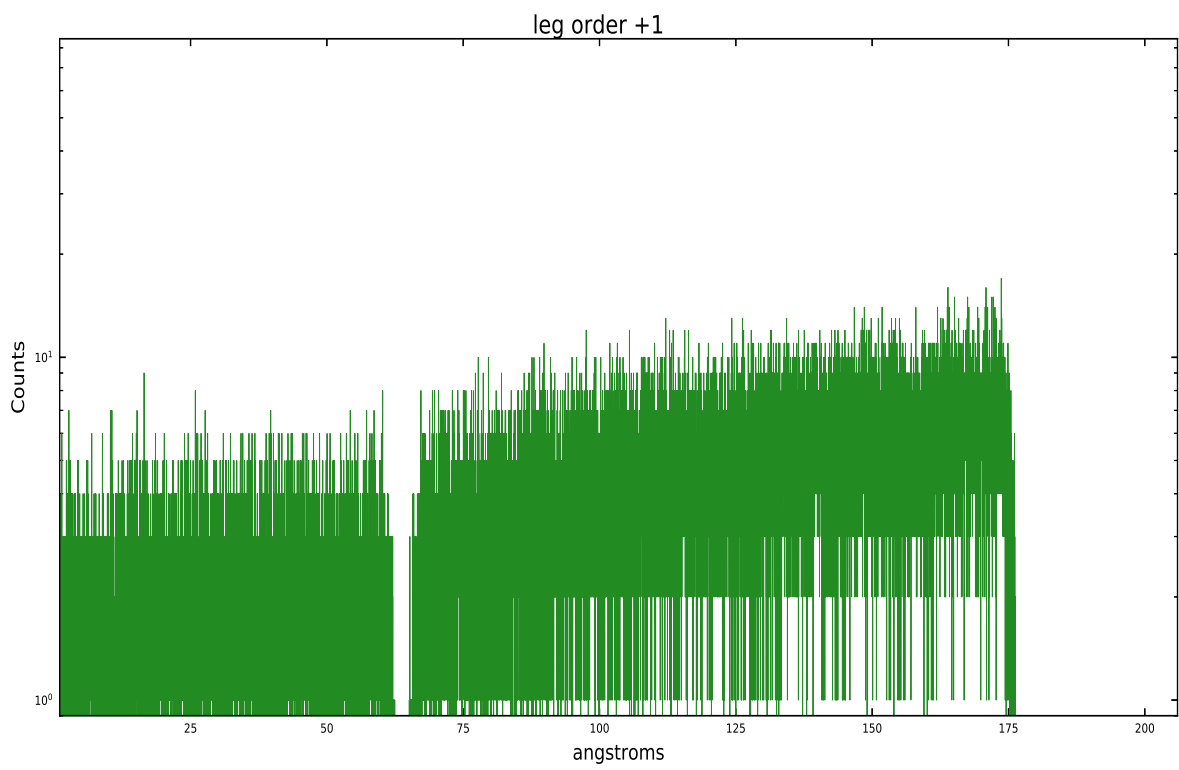
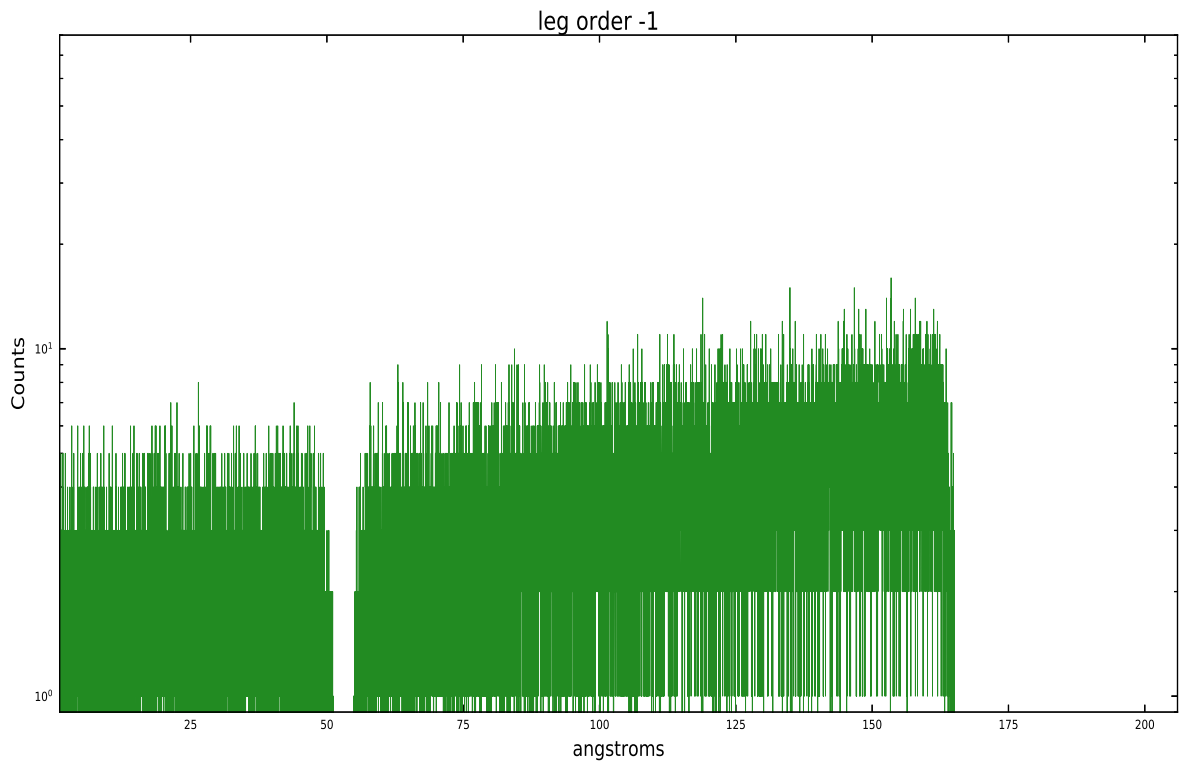


3 Gratings

3.1 LETG Arm



LETG Zero Order



A Summary

A.1 Status

V&V Scientist	David Principe
V&V Date (YYYY-MM-DD)	2020.10.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	41.953

A.2 Comments

Standard software processing technique using the tool `tgdetect` failed to find a source for the zeroth order for this observation. A zeroth order position of $x=32721.5$, $y=32851.5$ (sky coordinates) was used.