

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5959 - L2 Version 4
Chandra X-Ray Center

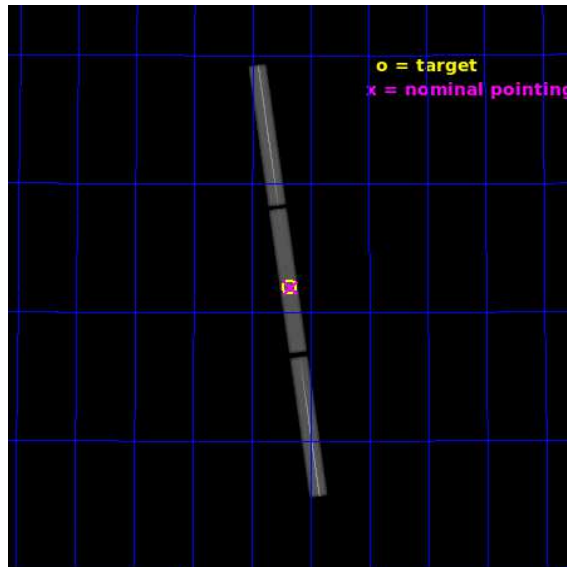
L2 Processing Date : Oct 9 2020

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Parameters	4
2.1.3	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
3	Gratings	17
3.1	LETG Arm	17
A	Summary	19
A.1	Status	19
A.2	Comments	19

1 Front

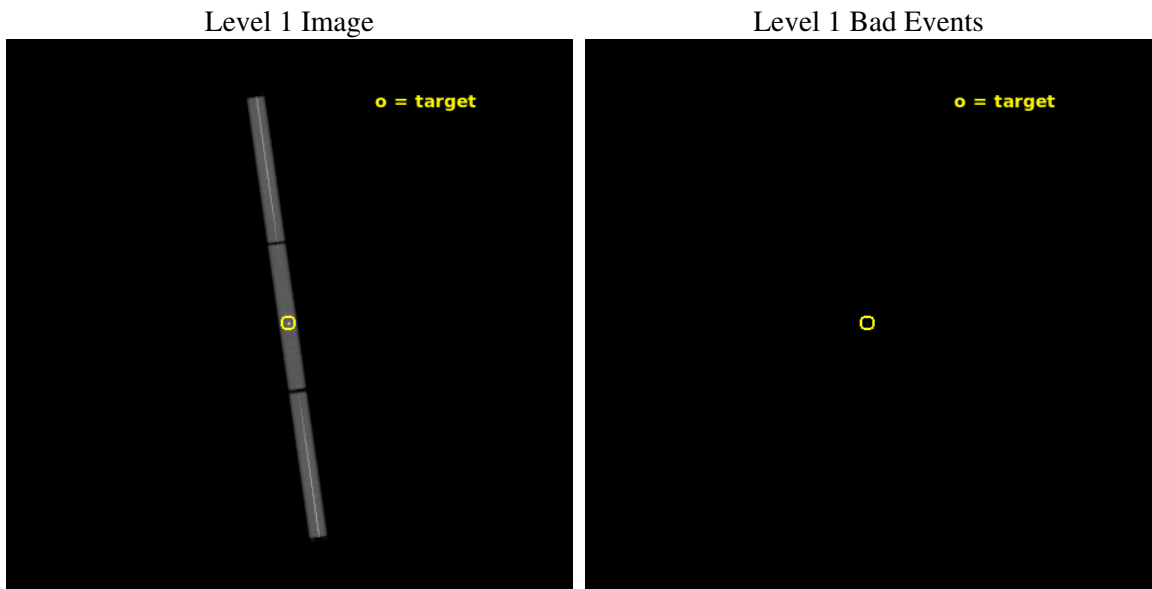
seq_num	290451	Sequence number
obs_id	5959	Observation id
title	AO6 Calibration Observations of HZ43	Proposal title
observer	CXC Calibration	Principal investigator
object	HZ43	Source name
ra_targ	199.092083	Observer's specified target RA [deg]
dec_targ	29.099	Observer's specified target Dec [deg]
ra_nom	199.0881457024	Nominal RA [deg]
dec_nom	29.096861177422	Nominal Dec [deg]
roll_nom	262.14523663464	Nominal Roll [deg]
revision	4	Processing version of data
ontime	18182.732082427	[s]
livetime	17646.067841641	Ontime multiplied by DTCOR
l2events	2050777	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	18000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	18182.732082427	[s]
caldbver	4.9.2	 	l1events	2617168	Number of level 1 events
date	2020-10-09T14:37:37	Date and time of file creation	tgmethod	TGDETECT	Method used to create src1a file
revision	4	Processing version of data	zo_pos	(32707.60, 32813.42)	src1a sky pixel position

2.1.3 Events

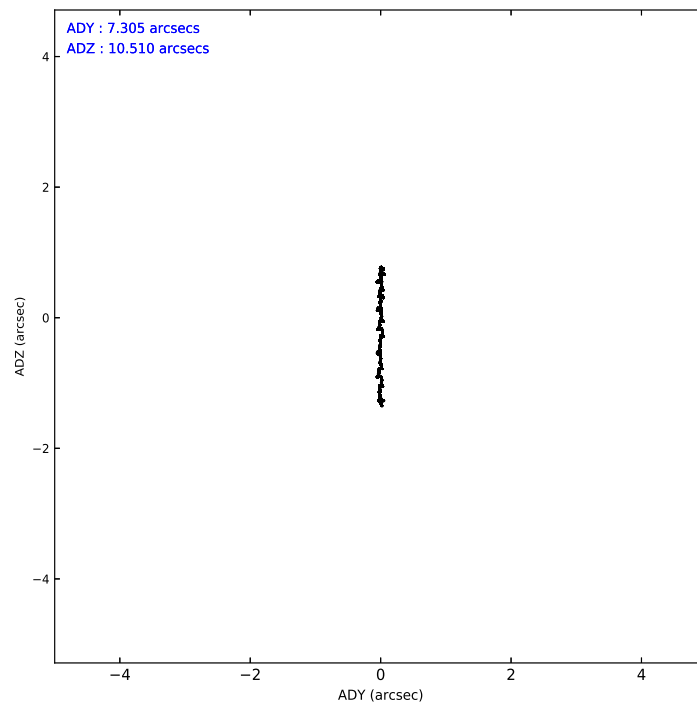
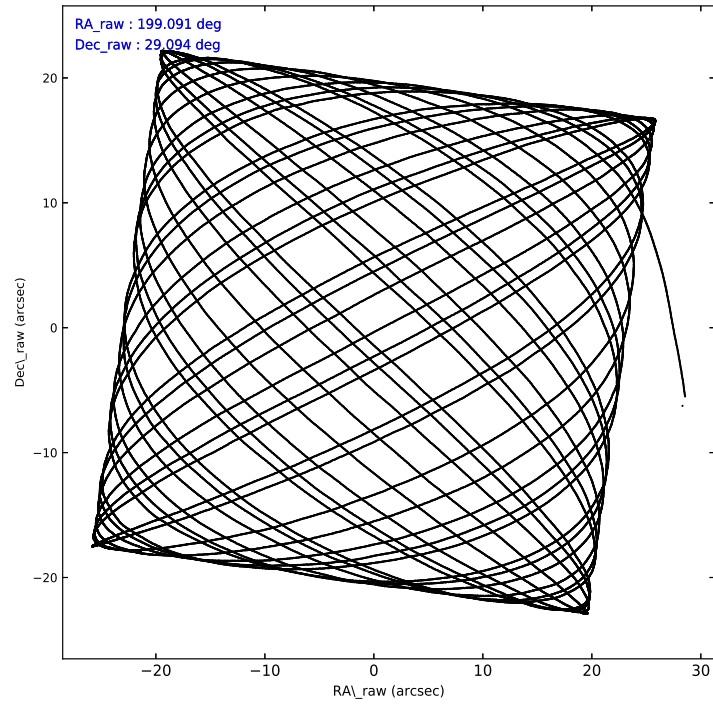
Level 1 Events

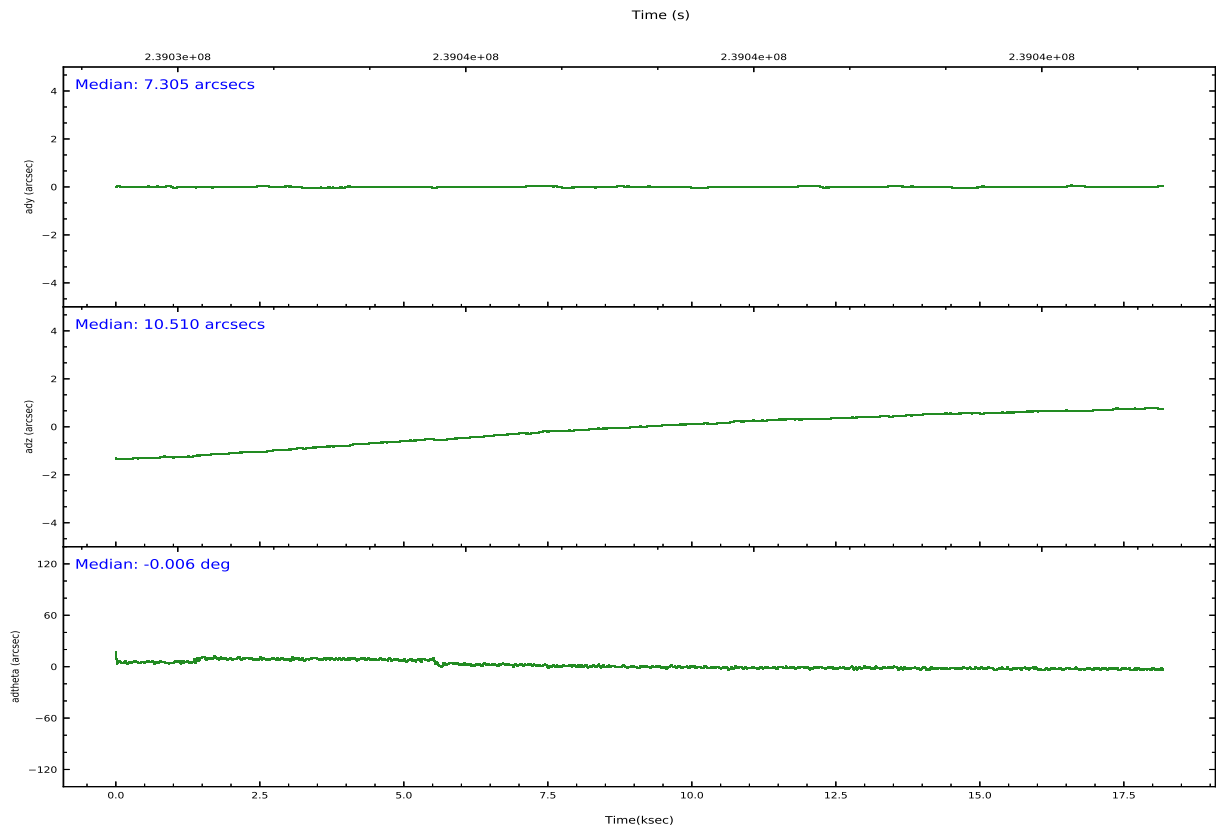
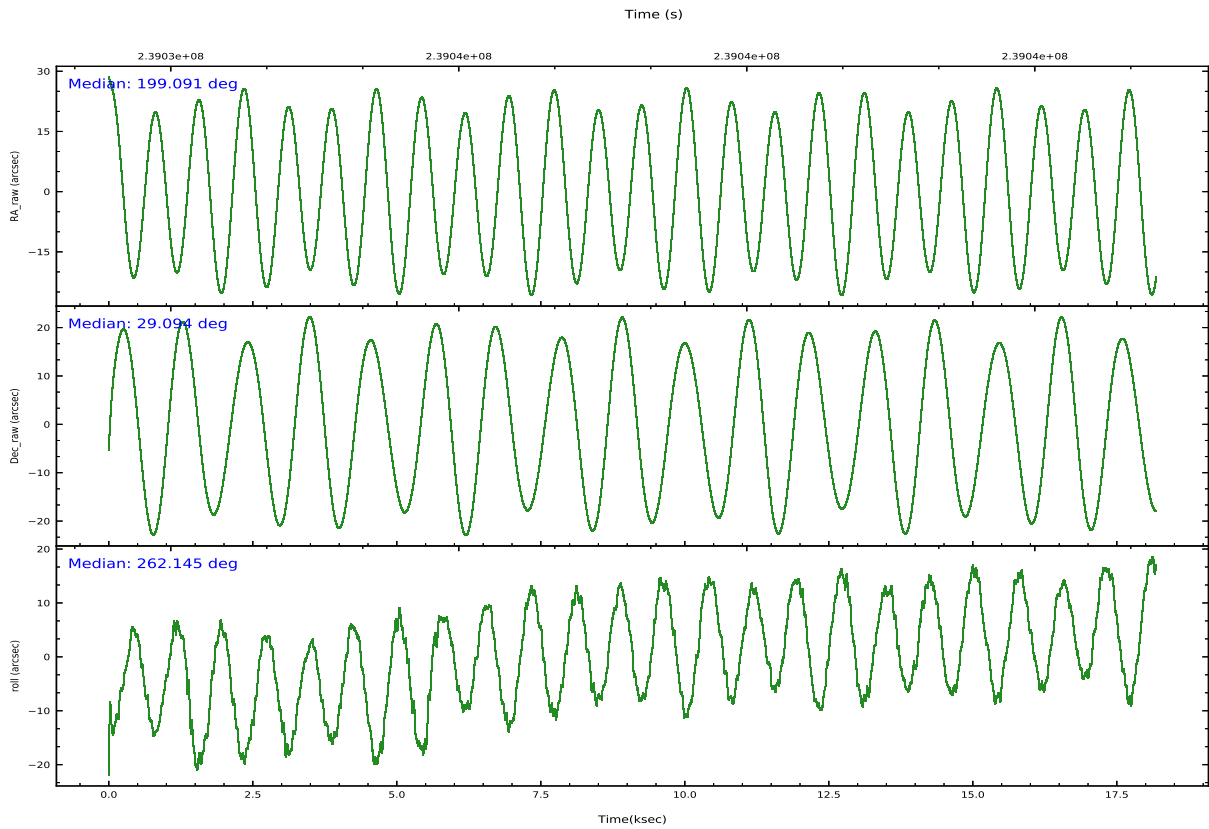
	segment 1	segment 2	segment 3
level 1 events	913412	794742	909014
rejected events	34236	32386	34179
rejected %	3%	4%	3%

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	LETG	LETG	Obspar update status	NONE	UPDATED
Data mode	OBSERVING	OBSERVING			
Observation mode	POINTING	POINTING			
[deg] Pointing RA	199.077371	199.0881457024			
[deg] Pointing Dec	29.120310	29.096861177422			
[deg] Pointing Roll	262.082996	262.14523663464			
[s] Window start time (MET)	233971264.184000	233971264.184000			
[s] Window stop time (MET)	241833664.184000	241833664.184000			
[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)	239029106.184000	239027947.07225			
Observation start date	2005-07-29T12:57:22	2005-07-29T12:39:07			
[s] Observation end time (MET)	239047106.184000	239047415.41064			
Observation end date	2005-07-29T17:57:22	2005-07-29T18:03:35			

2.3 Aspect





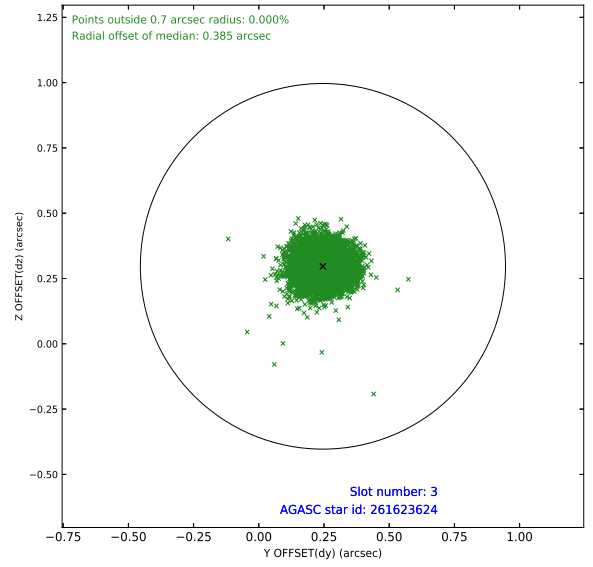
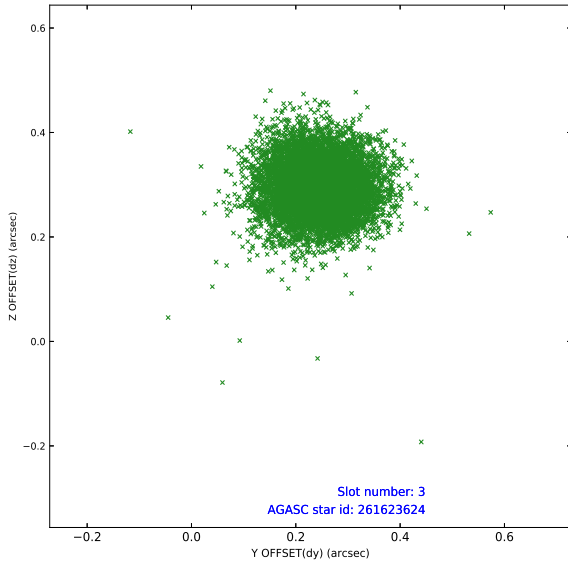
Slot Statistics

slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		HRC-S-1	7.00	4435	1.000	0.052	-0.203	0.023	0.031	0.000000	0.000000	-1161.51	-459
1	FID		HRC-S-3	7.01	4435	1.000	0.076	-0.024	0.026	0.037	0.000000	0.000000	-1164.52	570
2	FID		HRC-S-4	6.96	4435	1.000	0.261	-0.067	0.009	0.014	0.000000	0.000000	1236.65	573
3	GUIDE	used	261623624	9.12	8865	1.000	0.246	0.297	0.077	0.127	199.611555	28.454113	2139.27	2004
4	GUIDE	used	261629720	8.10	8869	1.000	0.052	-0.016	0.060	0.091	199.236176	29.044452	201.86	532
5	GUIDE	used	261626352	8.60	8869	1.000	-0.154	-0.180	0.077	0.124	198.417097	29.781420	-2079.02	-2373
6	GUIDE	used	261624080	7.08	8871	1.000	-0.293	-0.284	0.053	0.084	198.424651	29.817768	-2211.82	-2366
7	GUIDE	used	261624456	7.31	8869	1.000	0.151	0.188	0.056	0.087	199.758056	28.567828	1666.94	2404

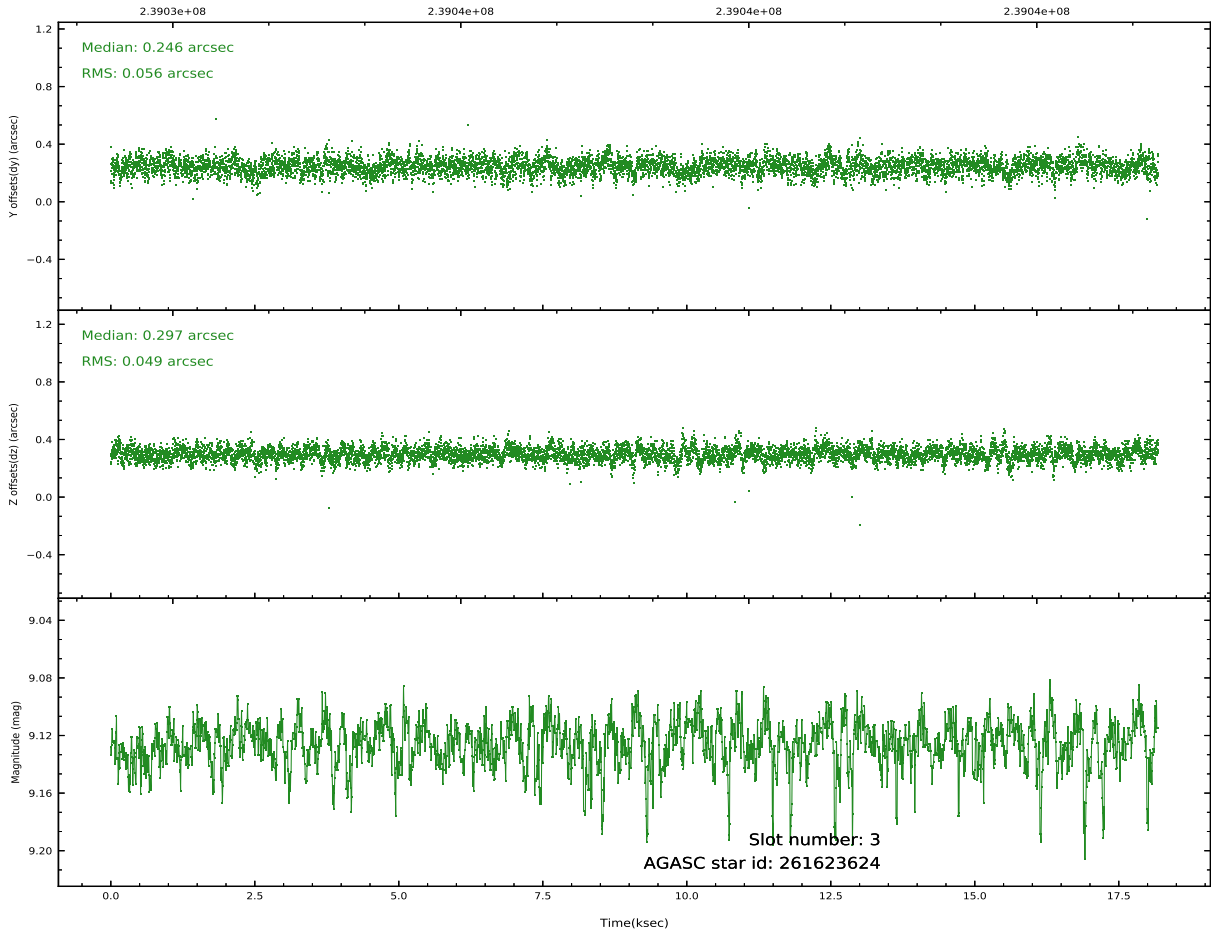
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2.4 Star Slots

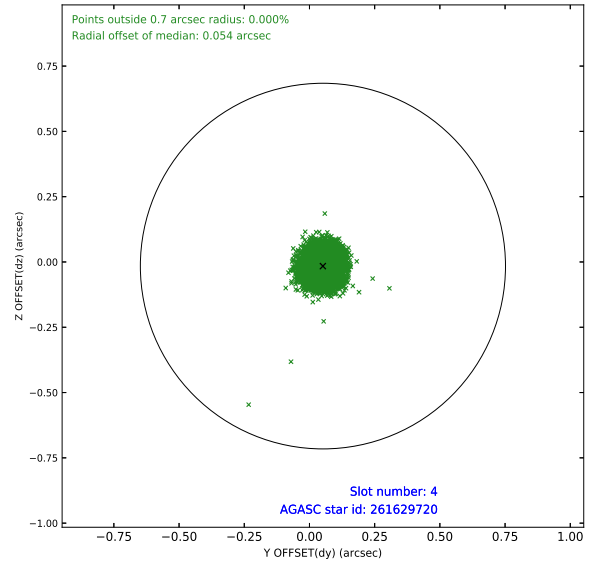
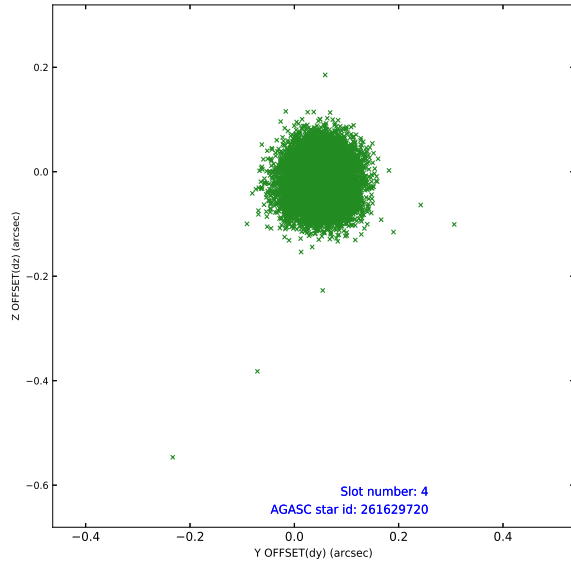
2.4.1 Slot 3



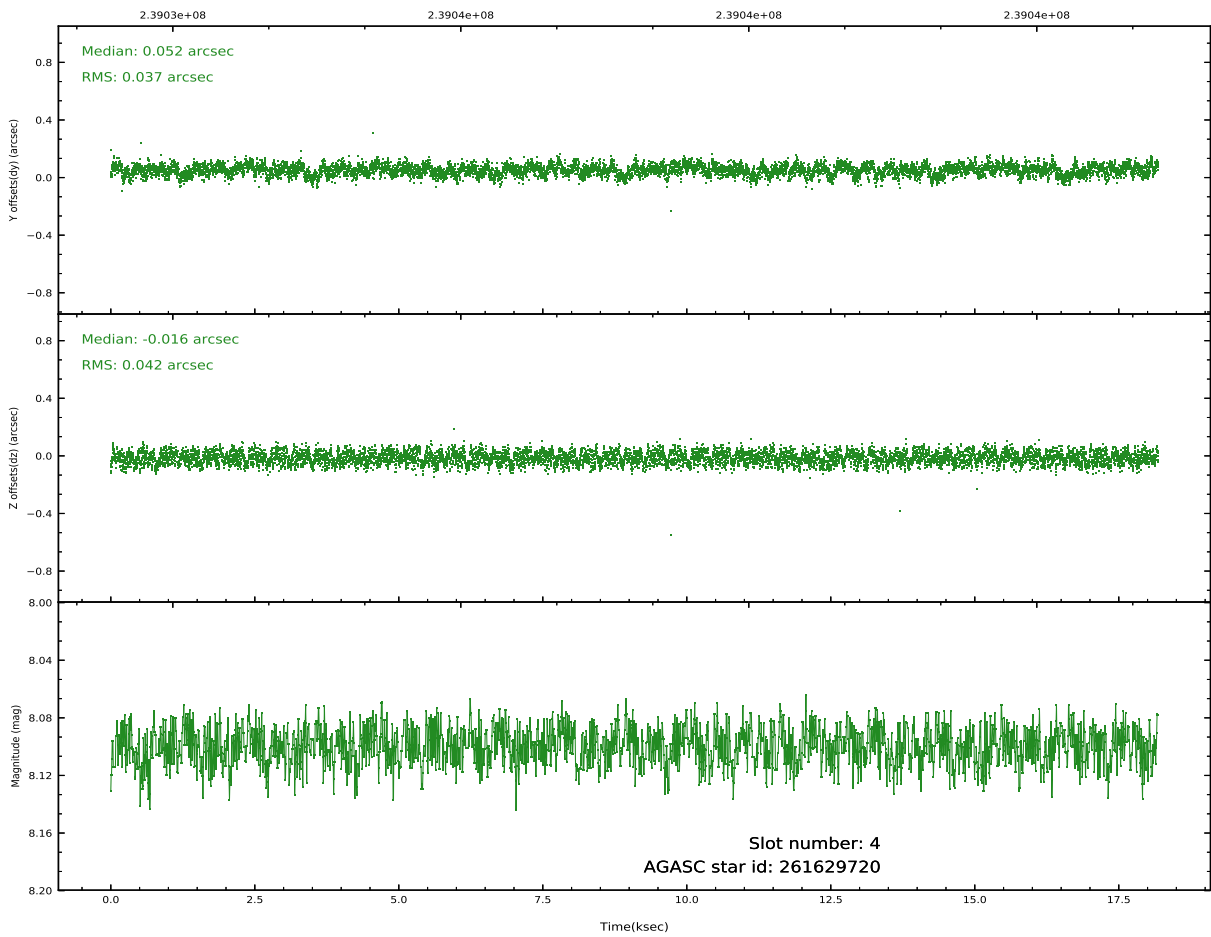
Time (s)



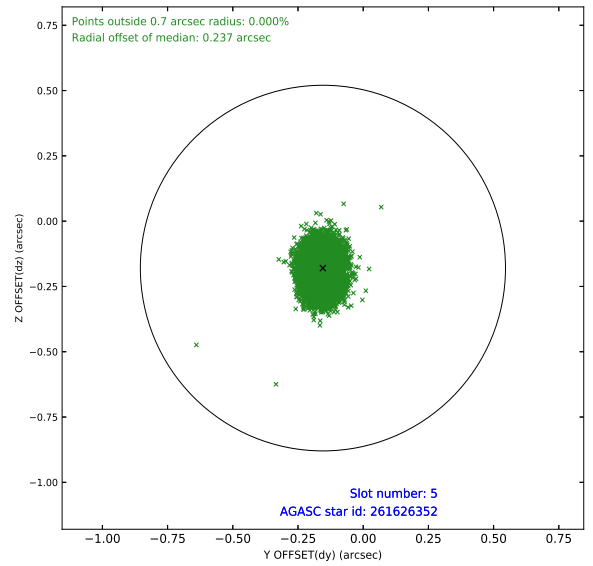
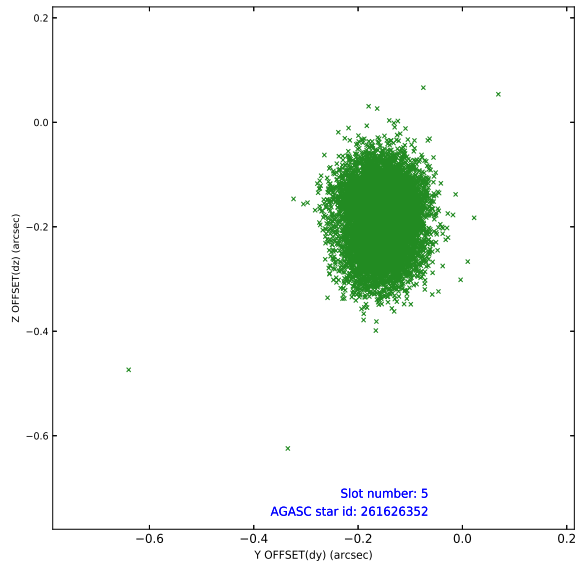
2.4.2 Slot 4



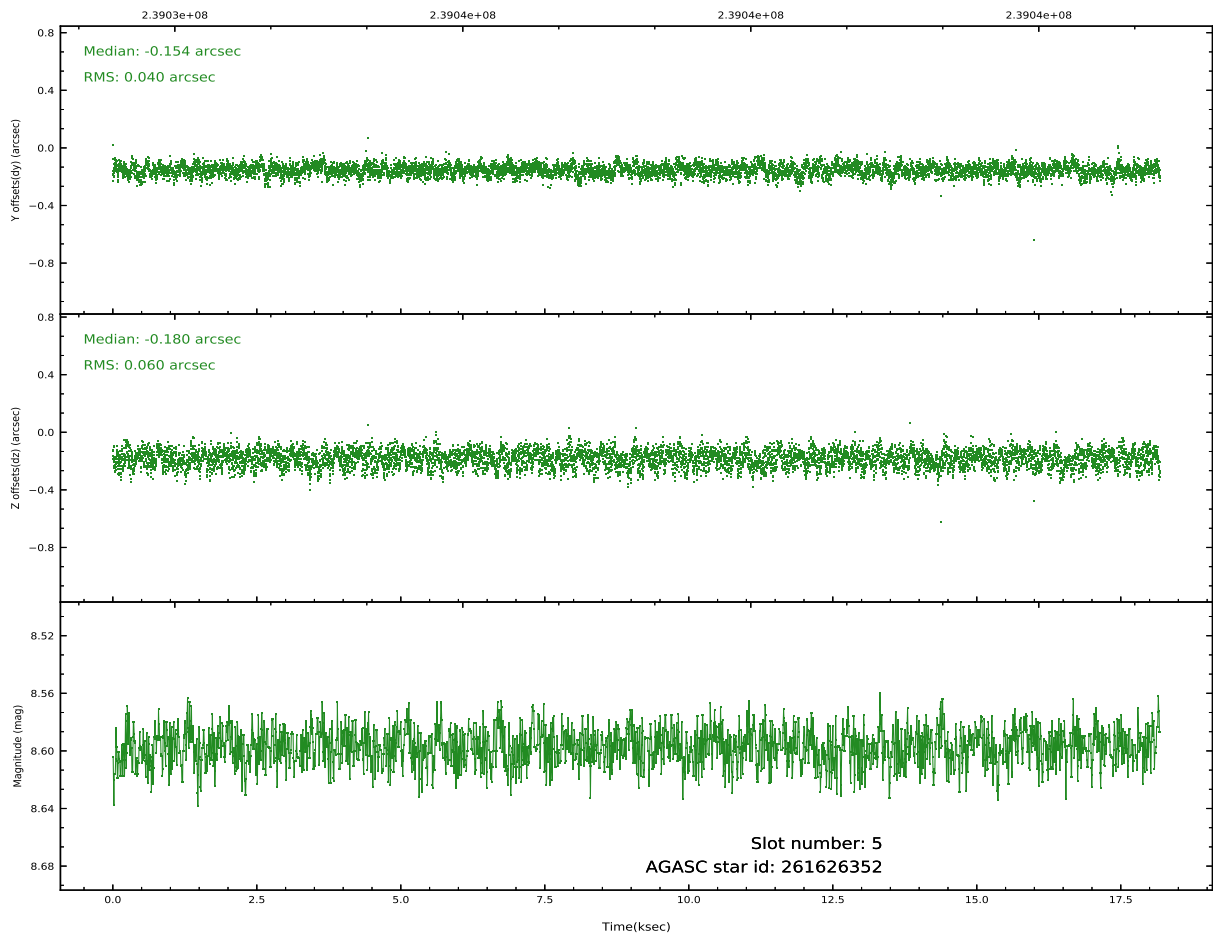
Time (s)



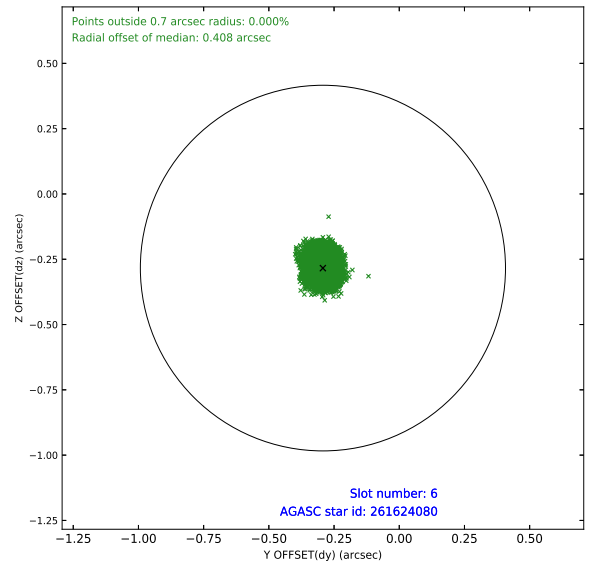
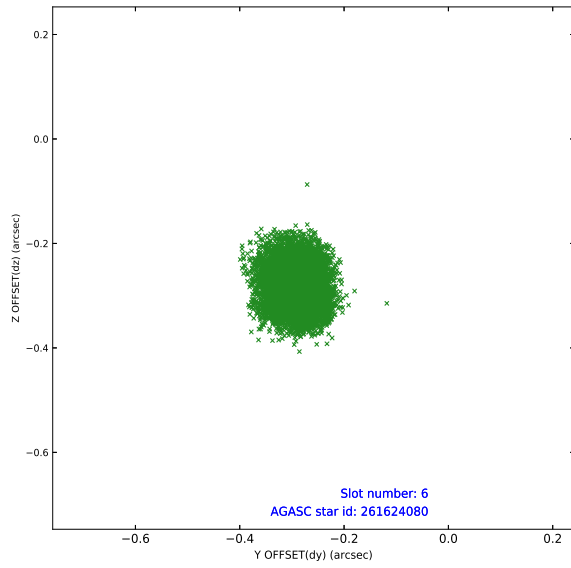
2.4.3 Slot 5



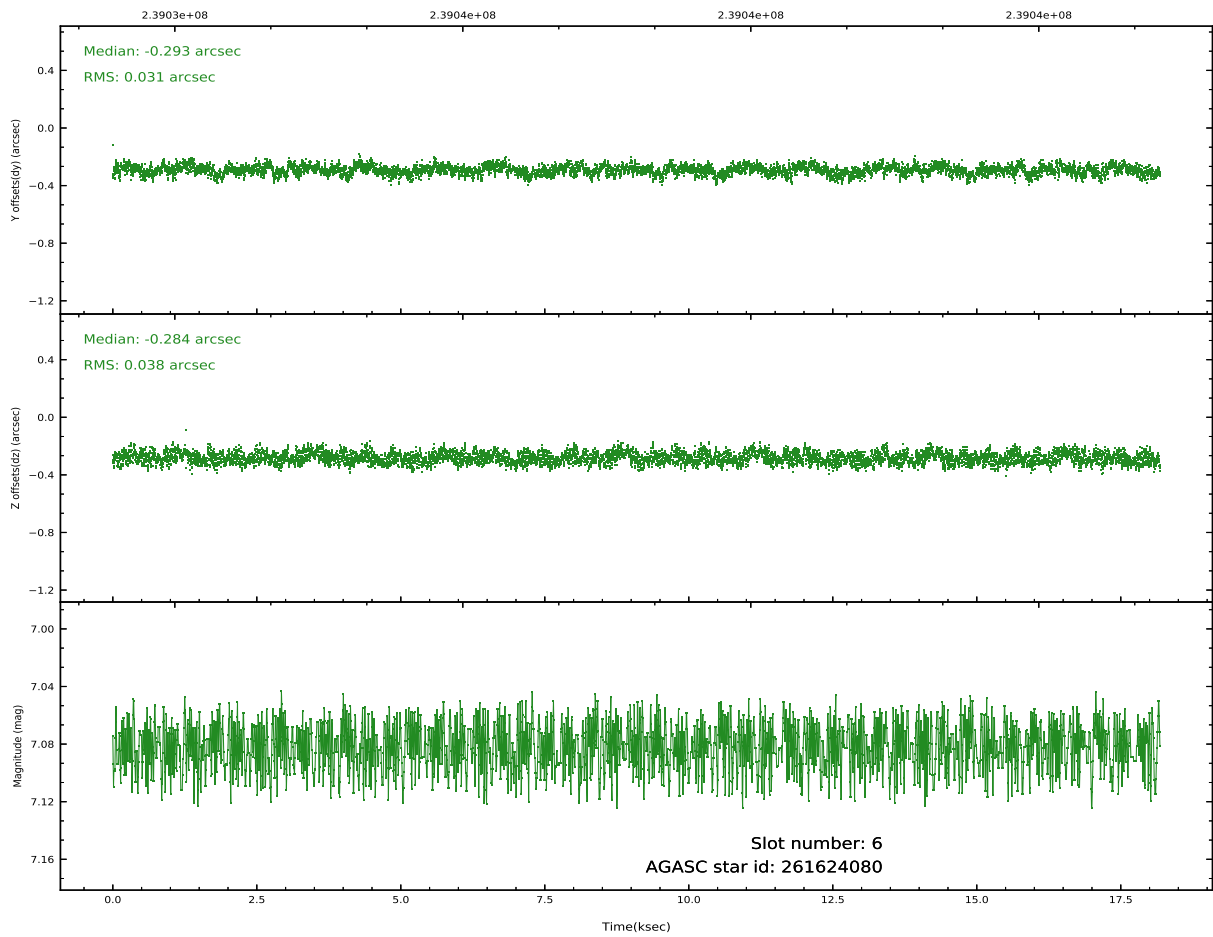
Time (s)



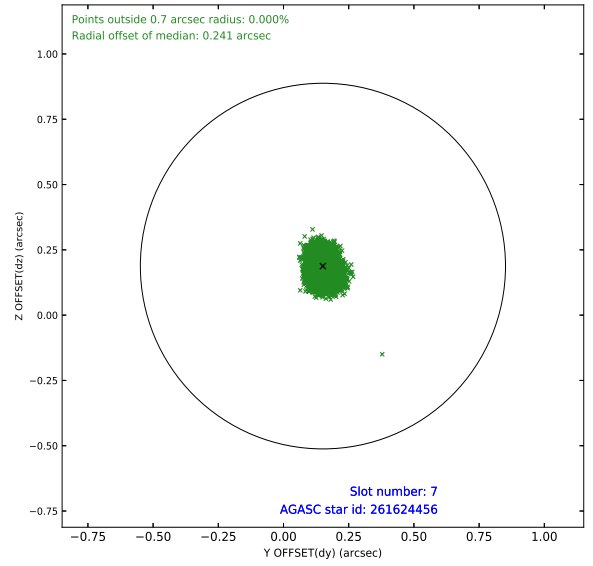
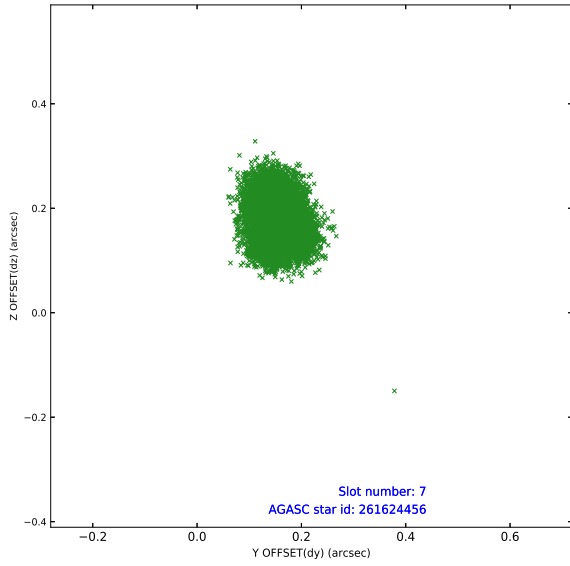
2.4.4 Slot 6



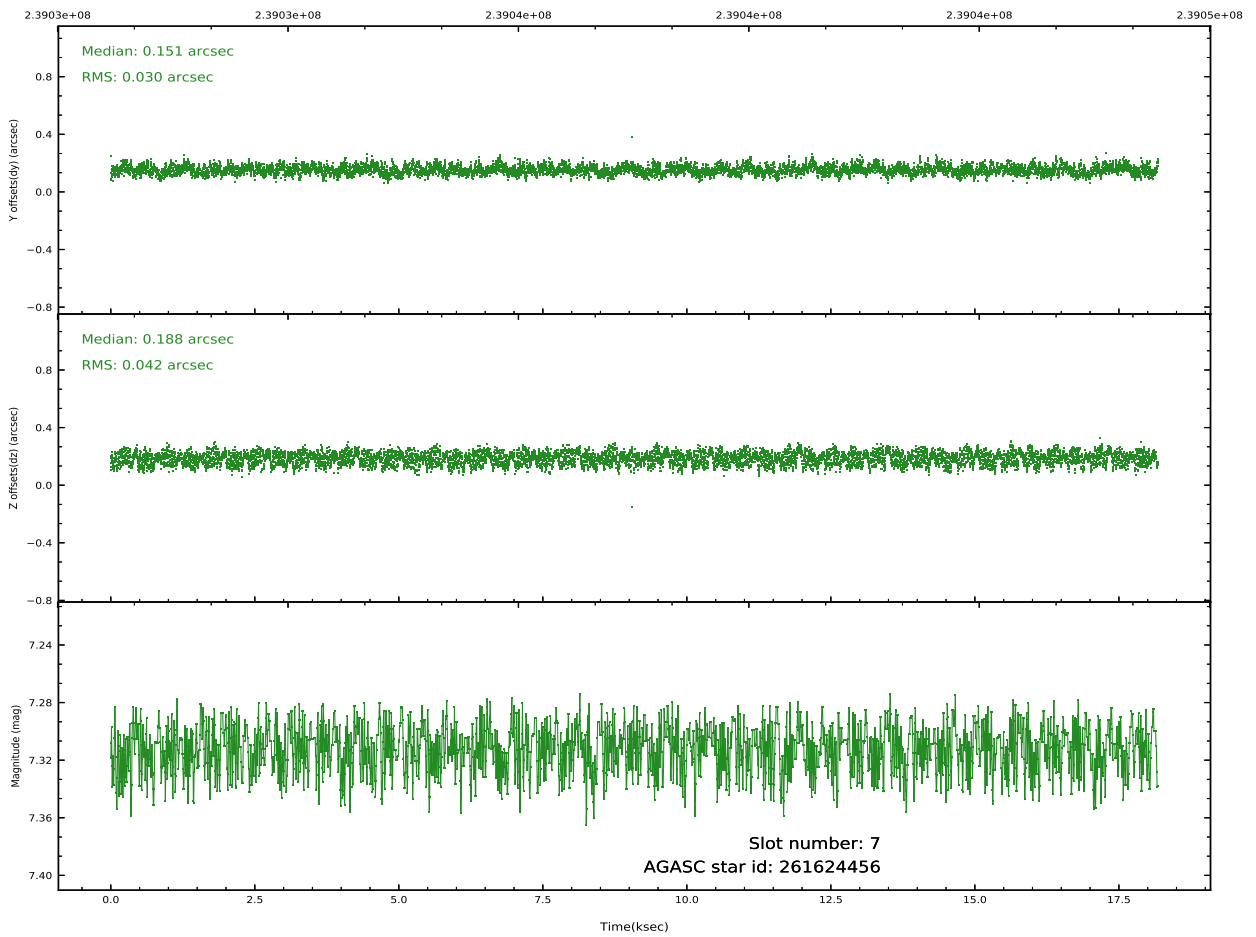
Time (s)



2.4.5 Slot 7

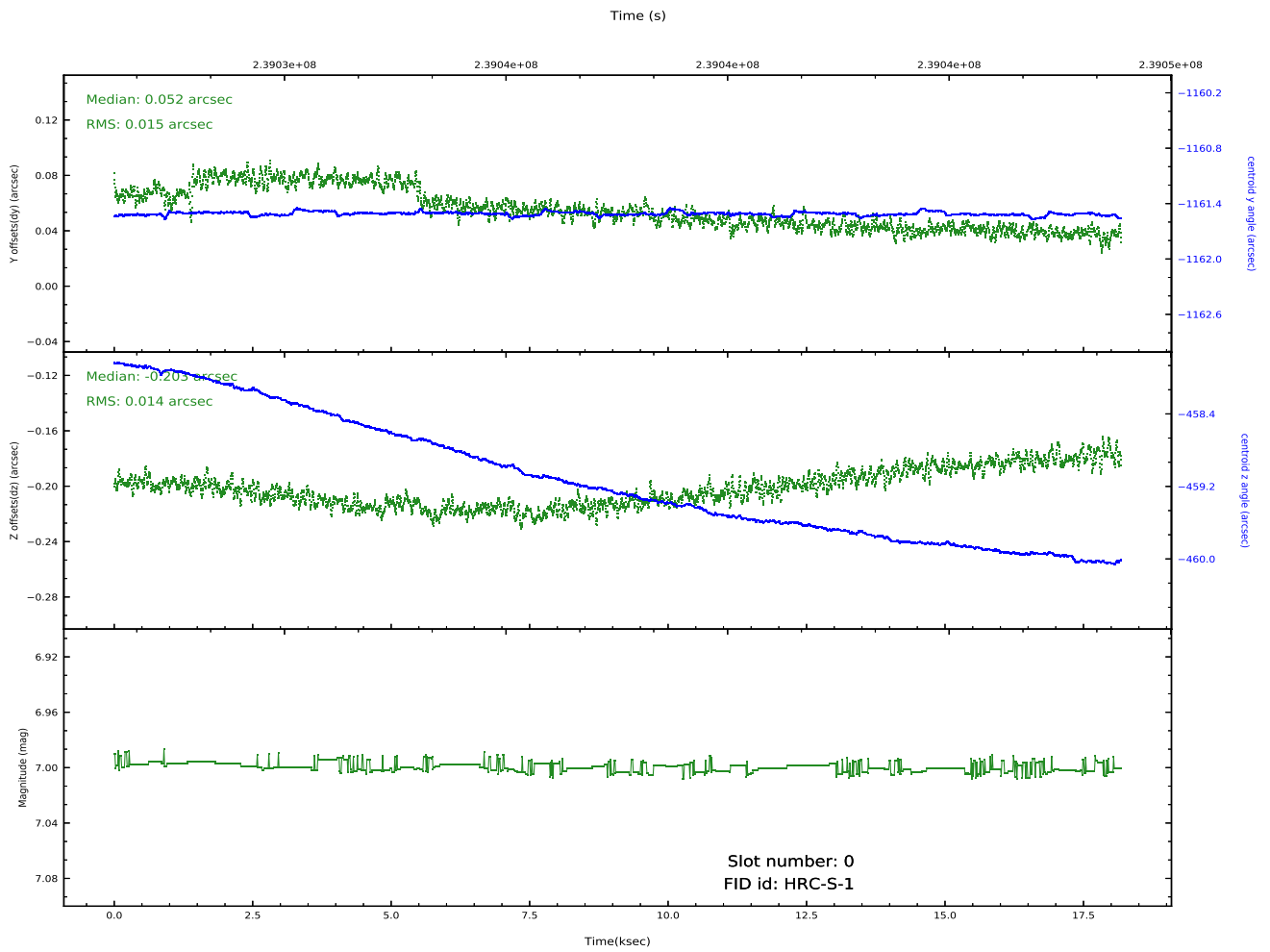
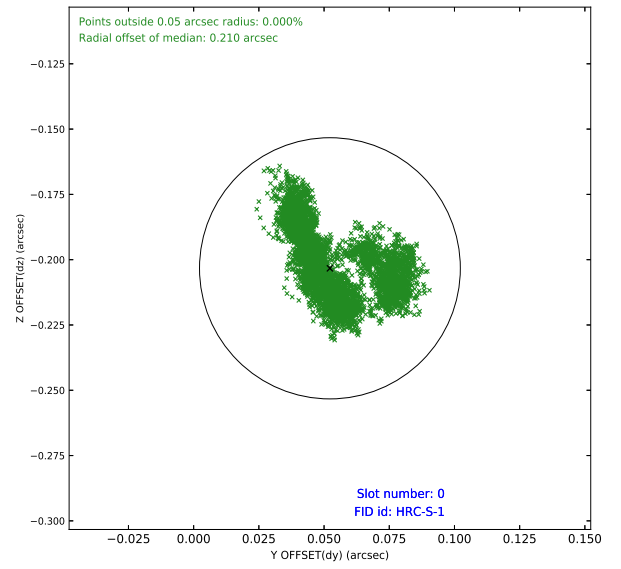
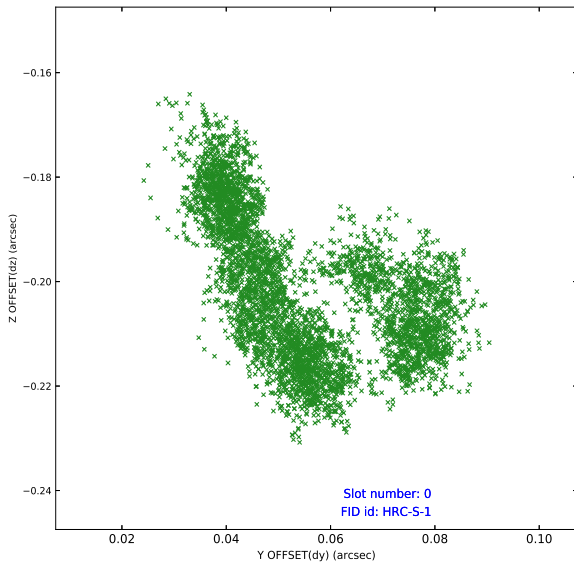


Time (s)

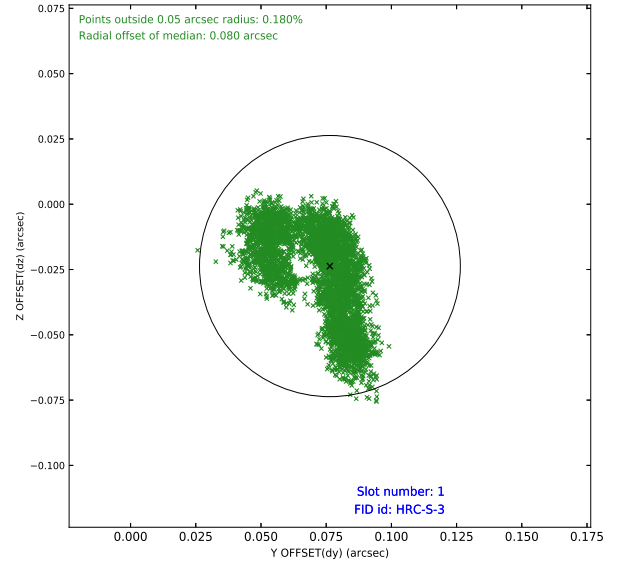
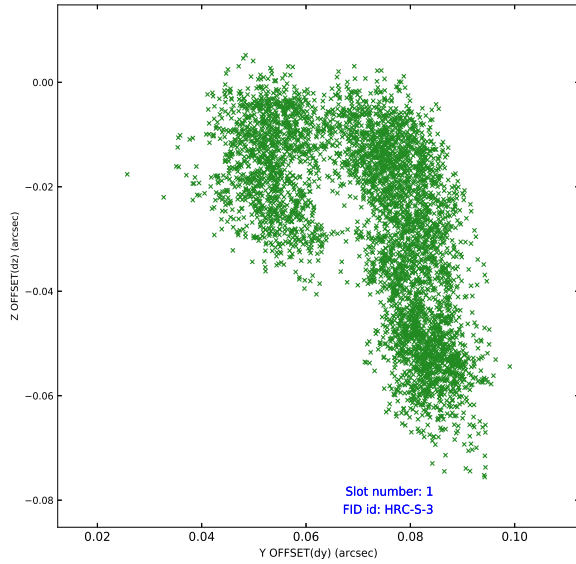


2.5 FID Slots

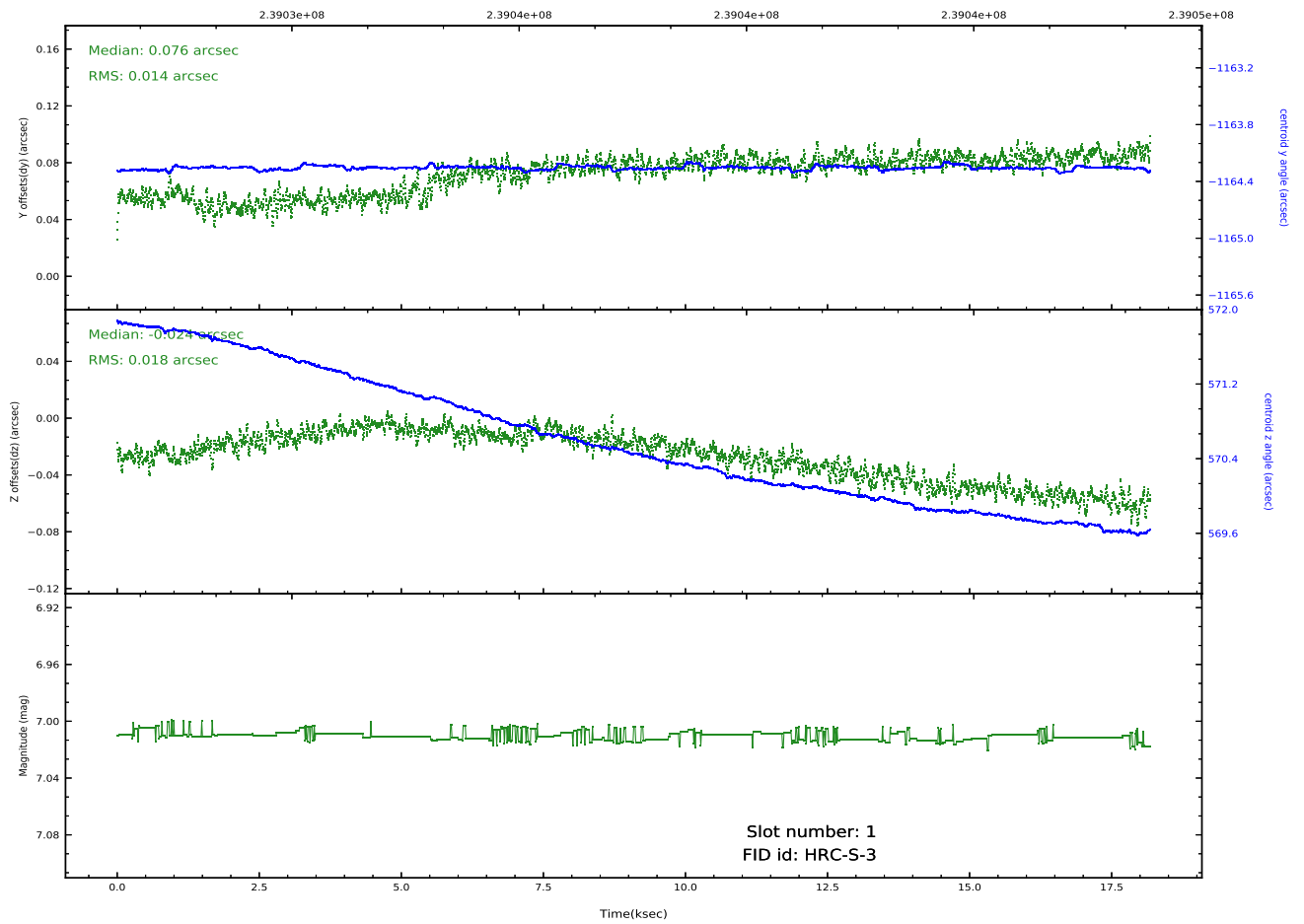
2.5.1 Slot 0



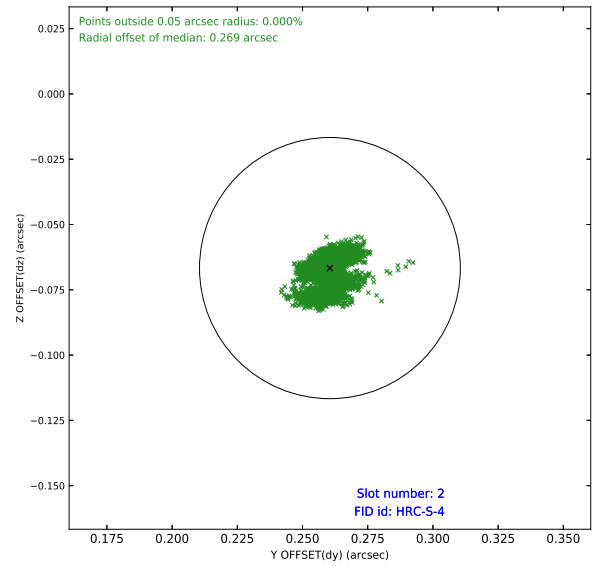
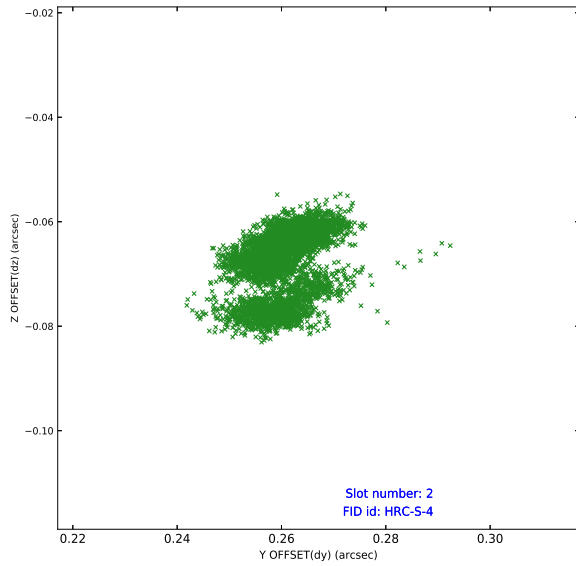
2.5.2 Slot 1



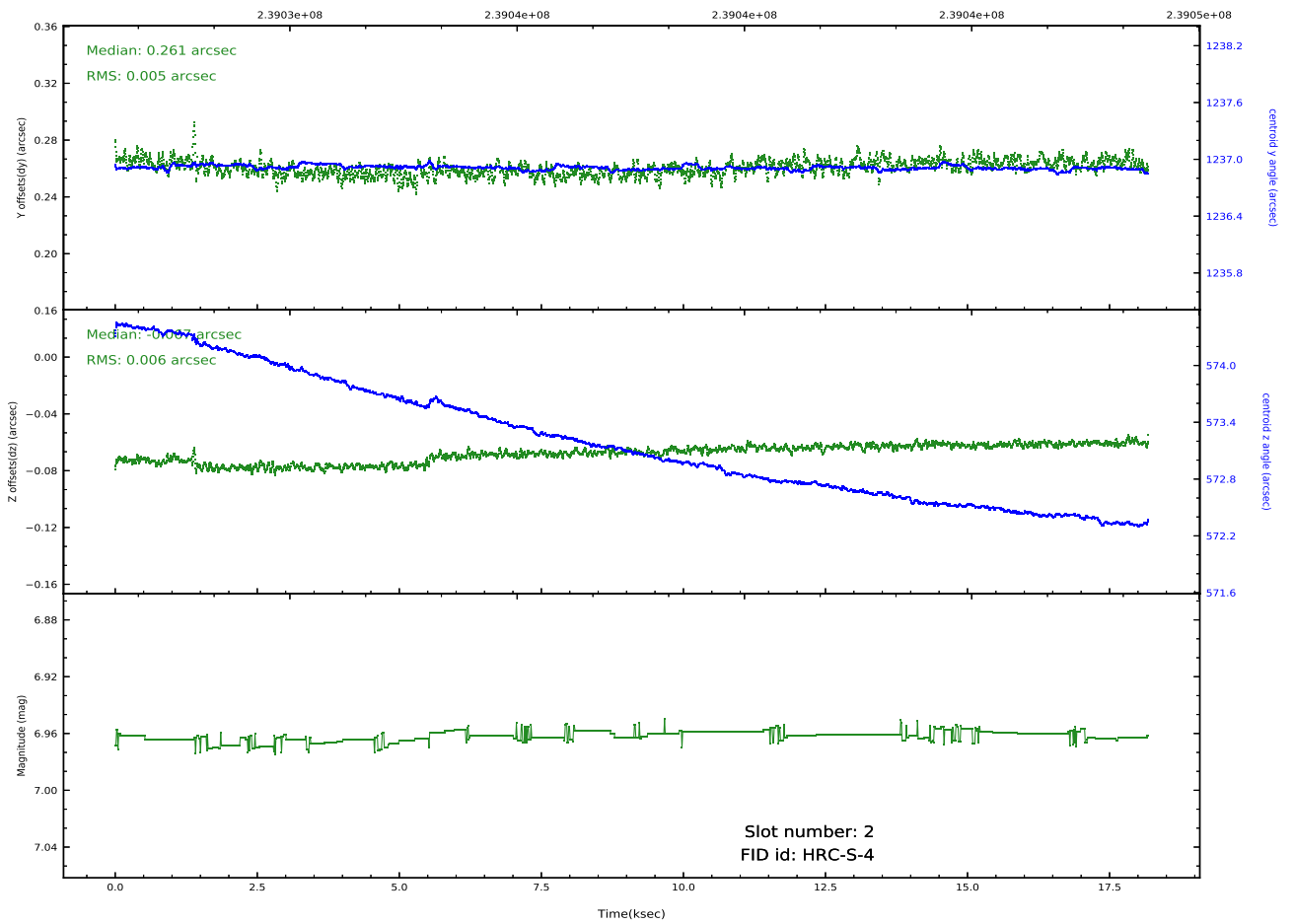
Time (s)



2.5.3 Slot 2

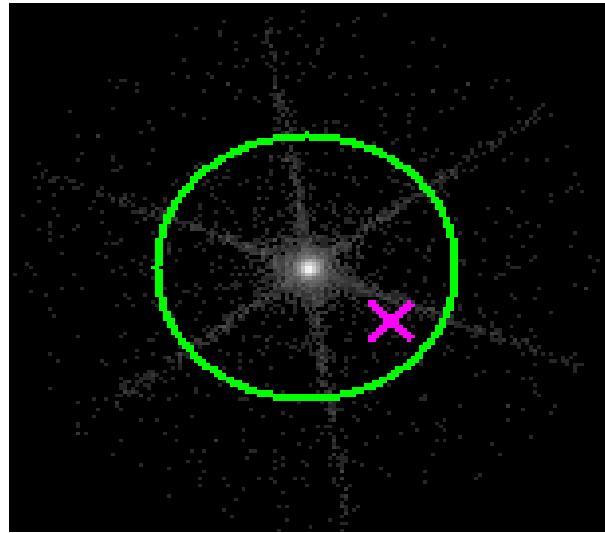


Time (s)

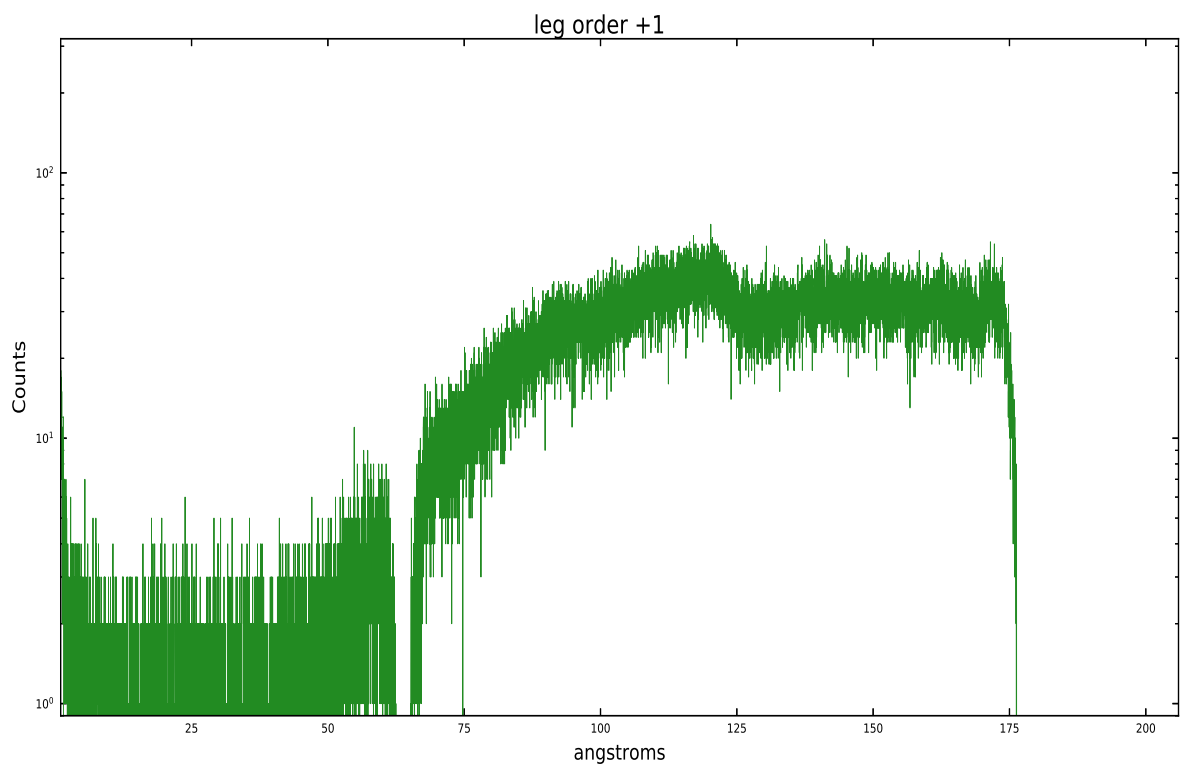
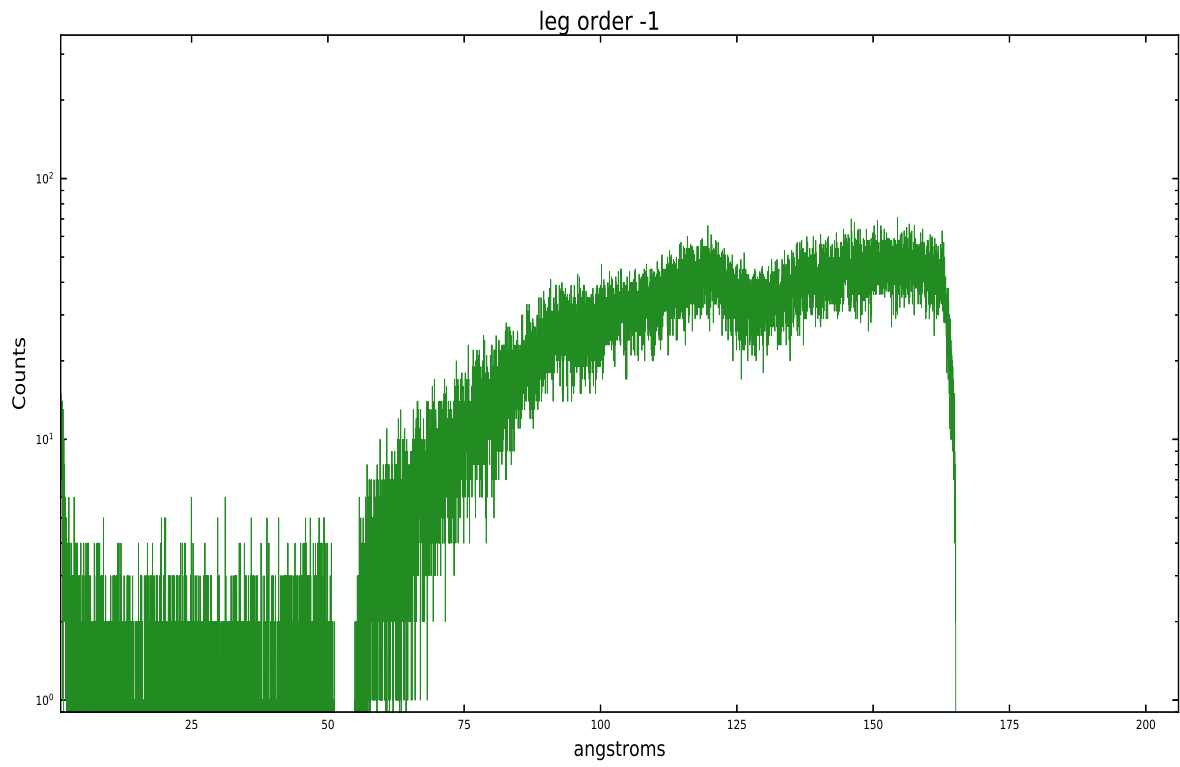


3 Gratings

3.1 LETG Arm



LETG Zero Order



A Summary

A.1 Status

V&V Scientist	David Principe
V&V Date (YYYY-MM-DD)	2020.10.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	18.18273

A.2 Comments