

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5317 - L2 Version 4
Chandra X-Ray Center

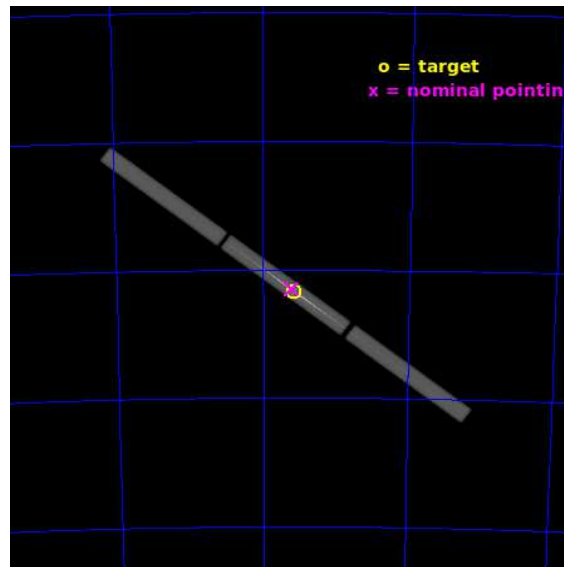
L2 Processing Date : Sep 25 2020

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1 Front

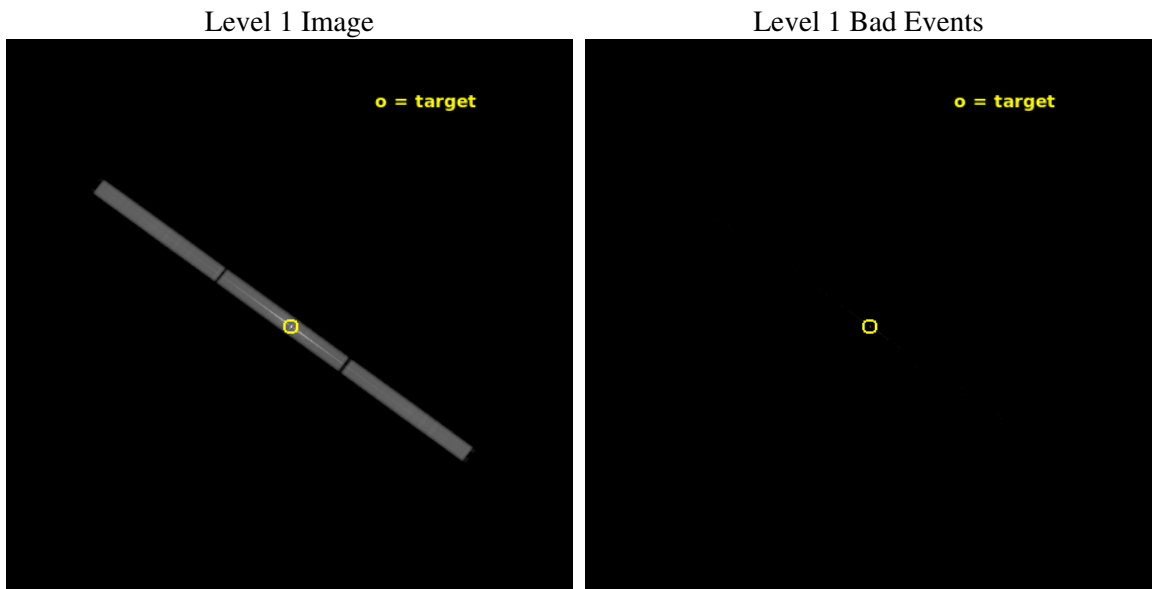
seq_num	400357	Sequence number
obs_id	5317	Observation id
title	High Resolution Spectroscopy of LMC X-3: Probing Local Hot X-ray Absorbing Gas	Proposal title
observer	Dr. Taotao Fang	Principal investigator
object	LMC X-3	Source name
ra_targ	84.734583	Observer's specified target RA [deg]
dec_targ	-64.084167	Observer's specified target Dec [deg]
ra_nom	84.752784122155	Nominal RA [deg]
dec_nom	-64.074753249013	Nominal Dec [deg]
roll_nom	217.01701396214	Nominal Roll [deg]
revision	4	Processing version of data
ontime	39831.758007109	[s]
livetime	39524.407475458	Overtime multiplied by DTCOR
l2events	2696647	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	40000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	39831.758007109	[s]
caldbver	4.9.2	 	l1events	3521970	Number of level 1 events
date	2020-09-25T19:34:54	Date and time of file creation	tgmethod	TGDETECT	Method used to create src1a file
revision	4	Processing version of data	zo_pos	(32970.18, 32509.14)	src1a sky pixel position

2.1.3 Events

Level 1 Events

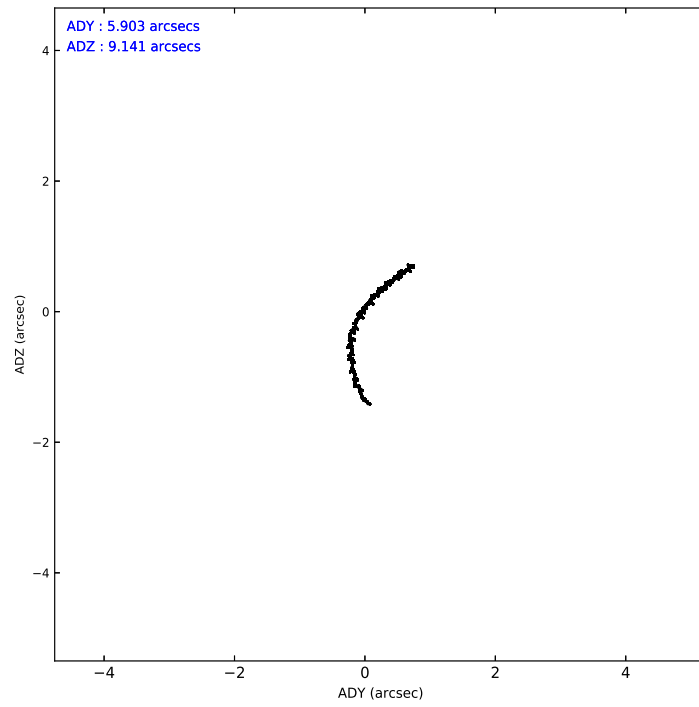
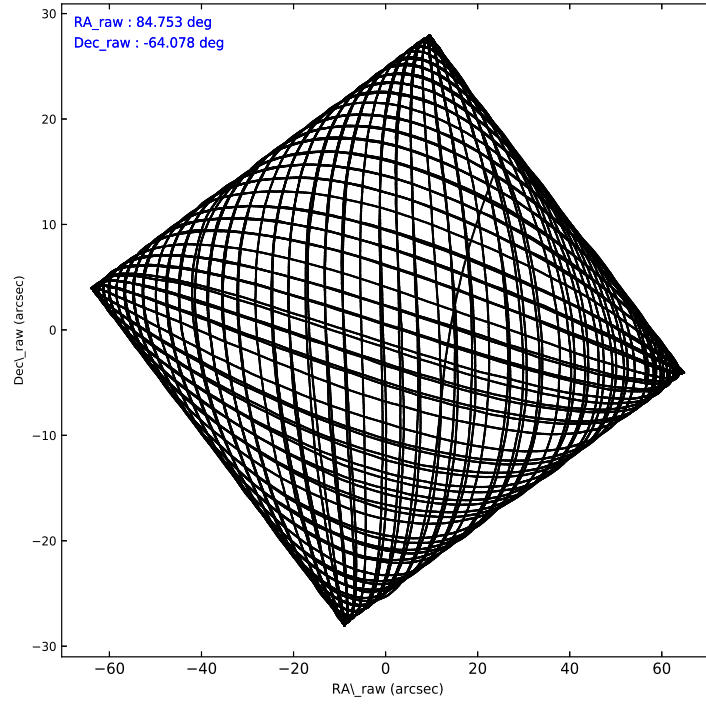
	segment 1	segment 2	segment 3
level 1 events	972908	1567583	981479
rejected events	3097	3983	3142
rejected %	0%	0%	0%

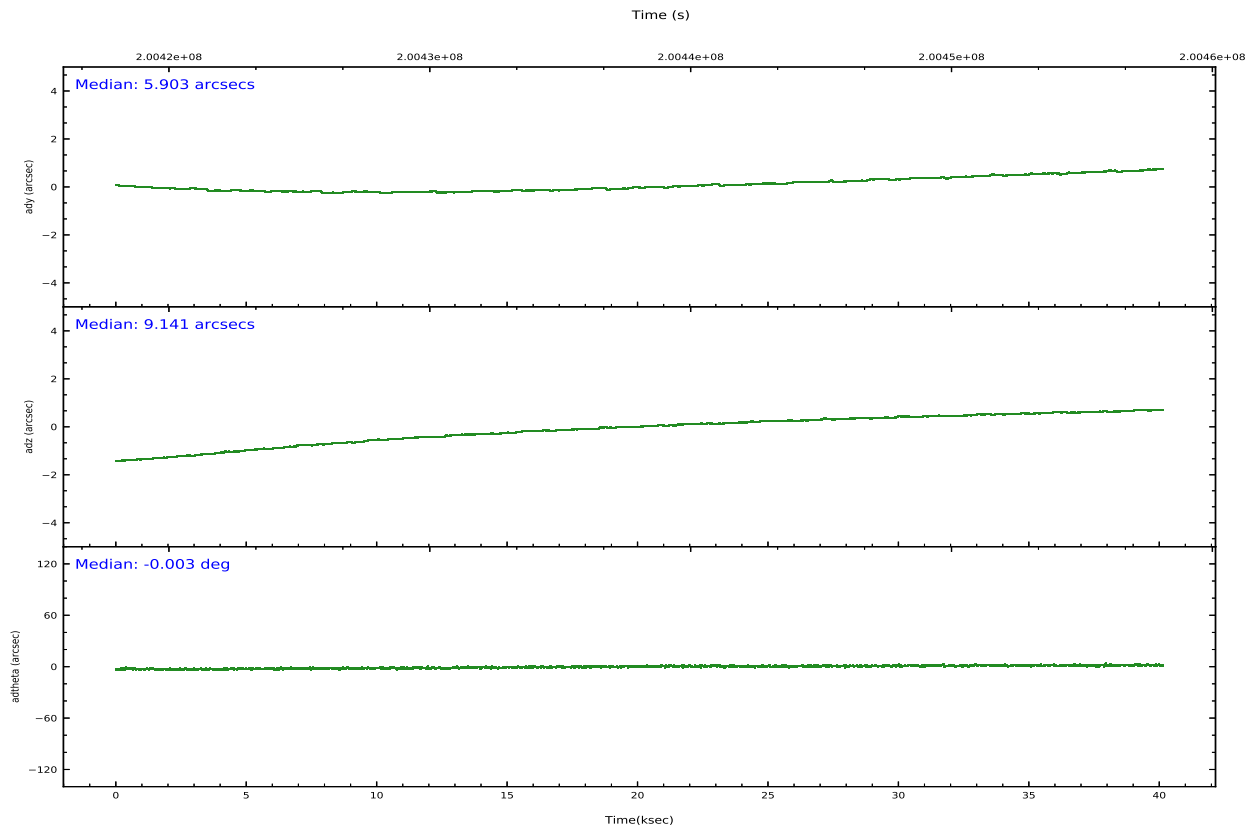
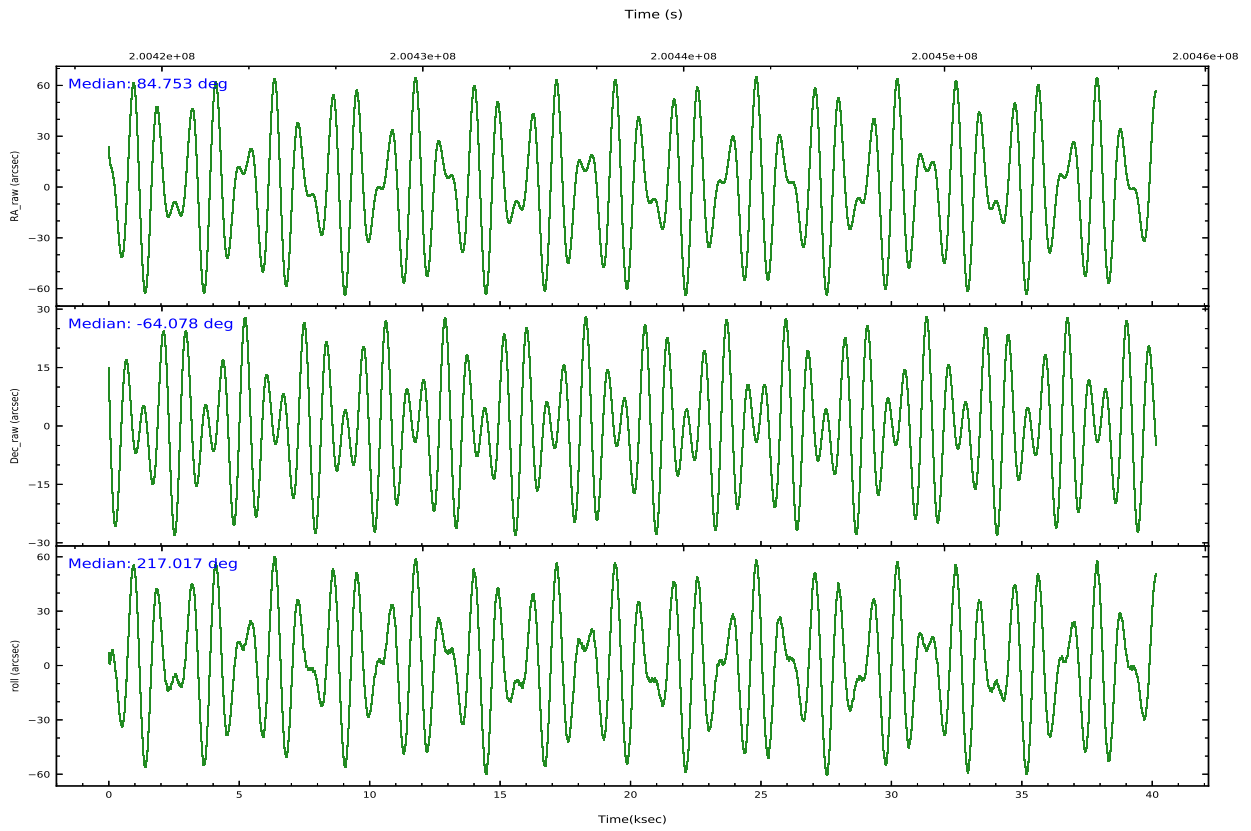
2.2 Compared Parameters

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	84.775779	84.75278412215501
[deg] Pointing Dec	-64.051015	-64.074753249013
[deg] Pointing Roll	216.974980	217.01701396214
[mm] SIM focus pos	-1.429586	-1.428180813131781
[mm] SIM defocus	0.1037507710433287	0.1051558262725154
[mm] SIM translation stage pos	250.943976	250.9487816181005
[mm] SIM translation stage offset	-0.488	-0.4928032245458098
[s] Observation start time (MET)	200418113.184000	200416936.41011
Observation start date	2004-05-08T15:40:49	2004-05-08T15:22:16
[s] Observation end time (MET)	200458113.184000	200459492.36198
Observation end date	2004-05-09T02:47:29	2004-05-09T03:11:32

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

2.3 Aspect





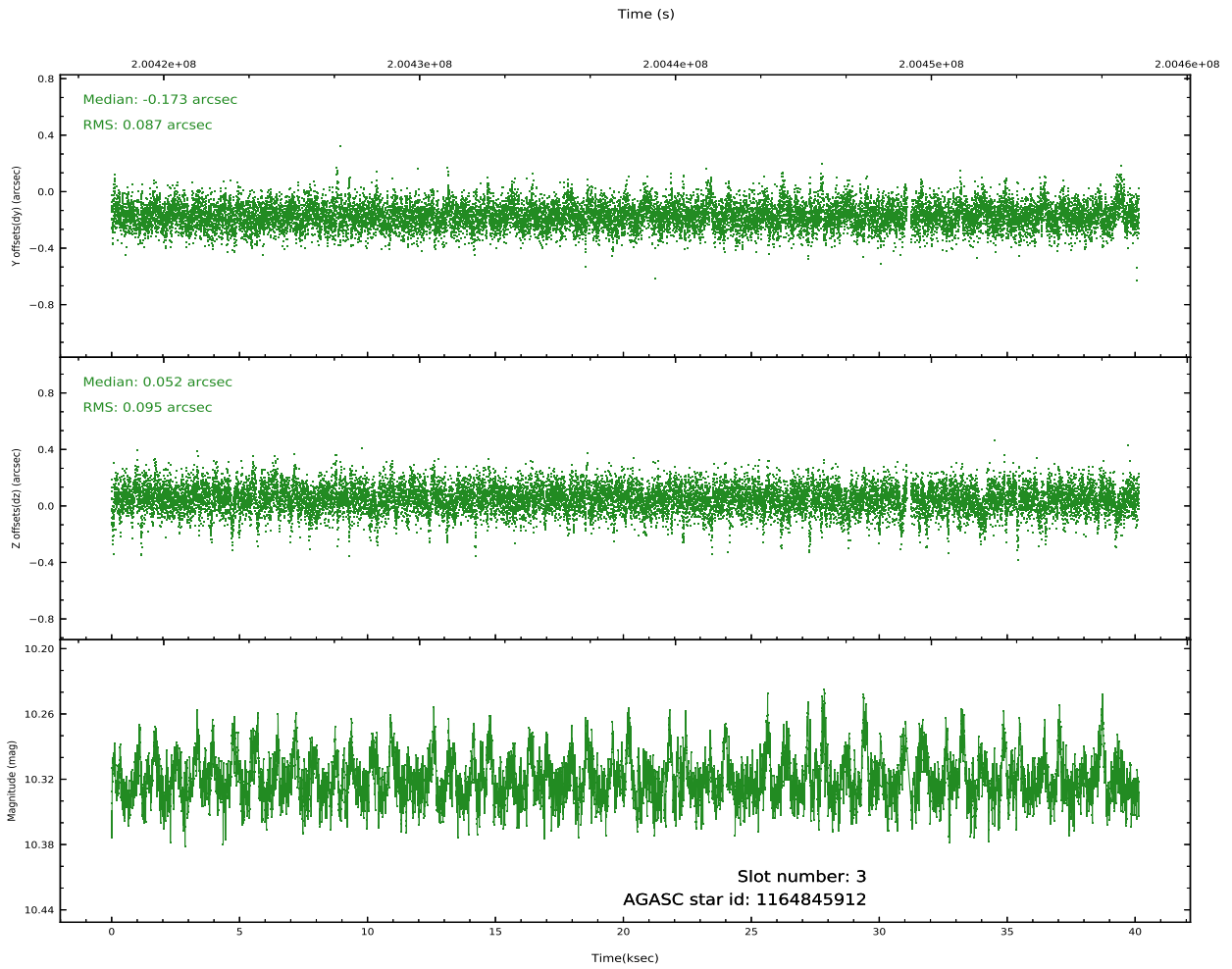
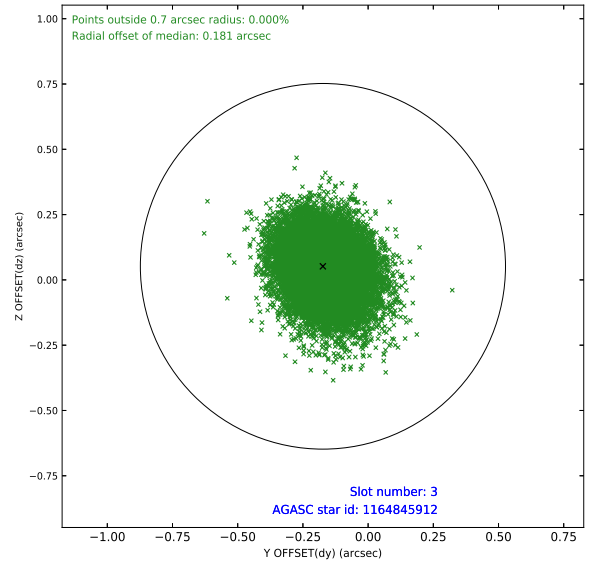
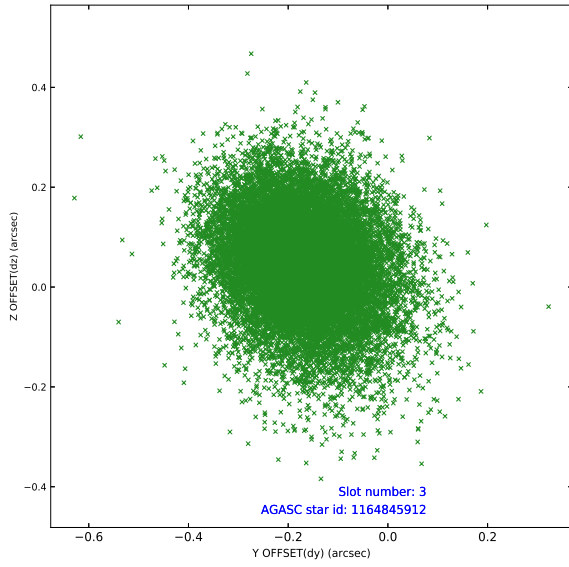
Slot Statistics

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	7.01	9793	1.000	0.086	-0.178	0.019	0.048	0.000000	0.000000	-1160.13	-467
1	FID		HRC-S-2	6.99	9792	1.000	0.173	-0.100	0.011	0.023	0.000000	0.000000	1239.52	-460
2	FID		HRC-S-3	7.02	9793	1.000	0.130	-0.024	0.024	0.051	0.000000	0.000000	-1162.68	562
3	GUIDE	used	1164845912	10.32	19483	1.000	-0.173	0.052	0.133	0.230	85.697231	-64.294189	-616.87	1573
4	GUIDE	used	1164848328	9.26	19571	1.000	0.009	-0.108	0.092	0.154	84.701267	-64.093054	184.91	50
5	GUIDE	used	1166544016	9.68	19557	1.000	0.043	0.008	0.132	0.220	86.089673	-64.349585	-976.57	2107
6	GUIDE	used	1166548256	8.76	19581	1.000	0.028	0.130	0.083	0.133	85.738698	-64.074093	-1153.86	987
7	GUIDE	used	1164840584	9.11	19571	1.000	0.087	-0.074	0.115	0.192	82.750564	-63.883359	2231.87	-2371

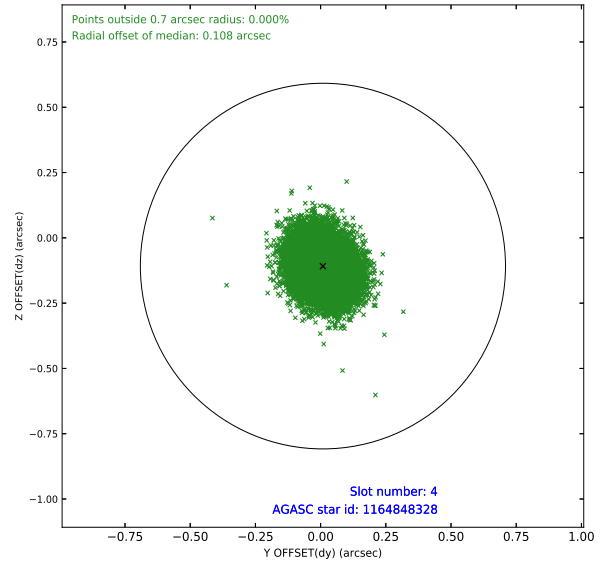
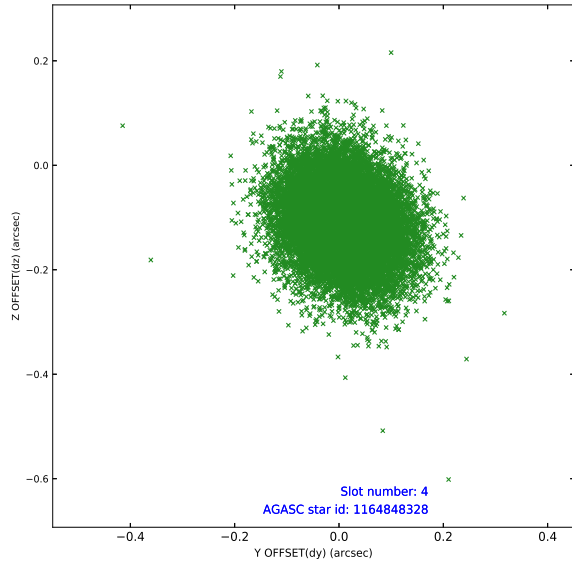
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2.4 Star Slots

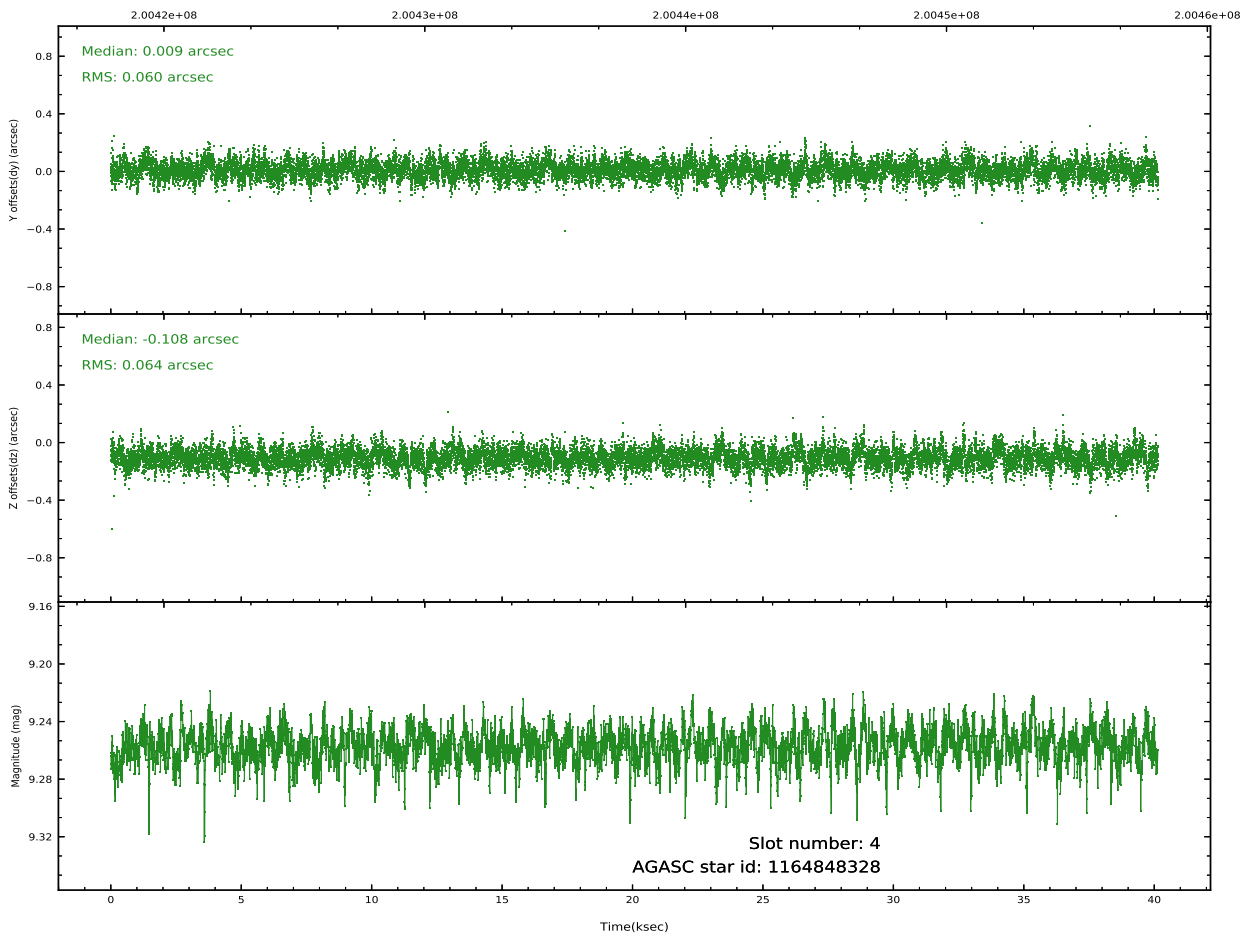
2.4.1 Slot 3



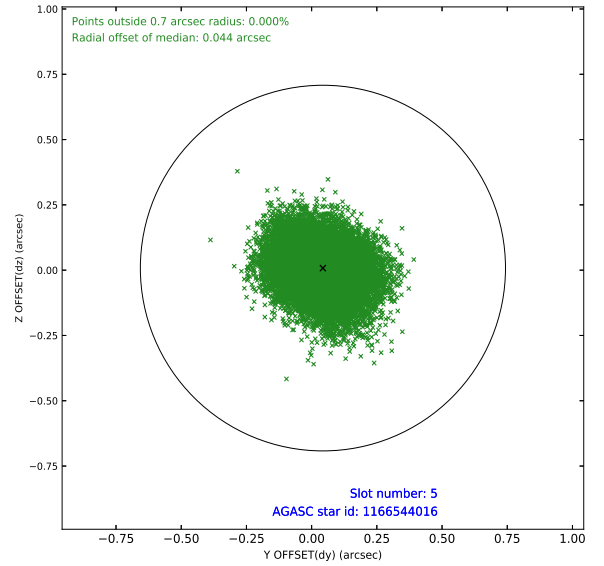
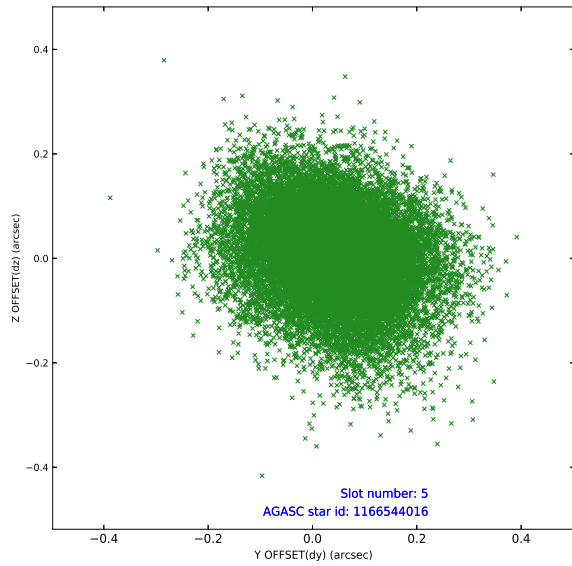
2.4.2 Slot 4



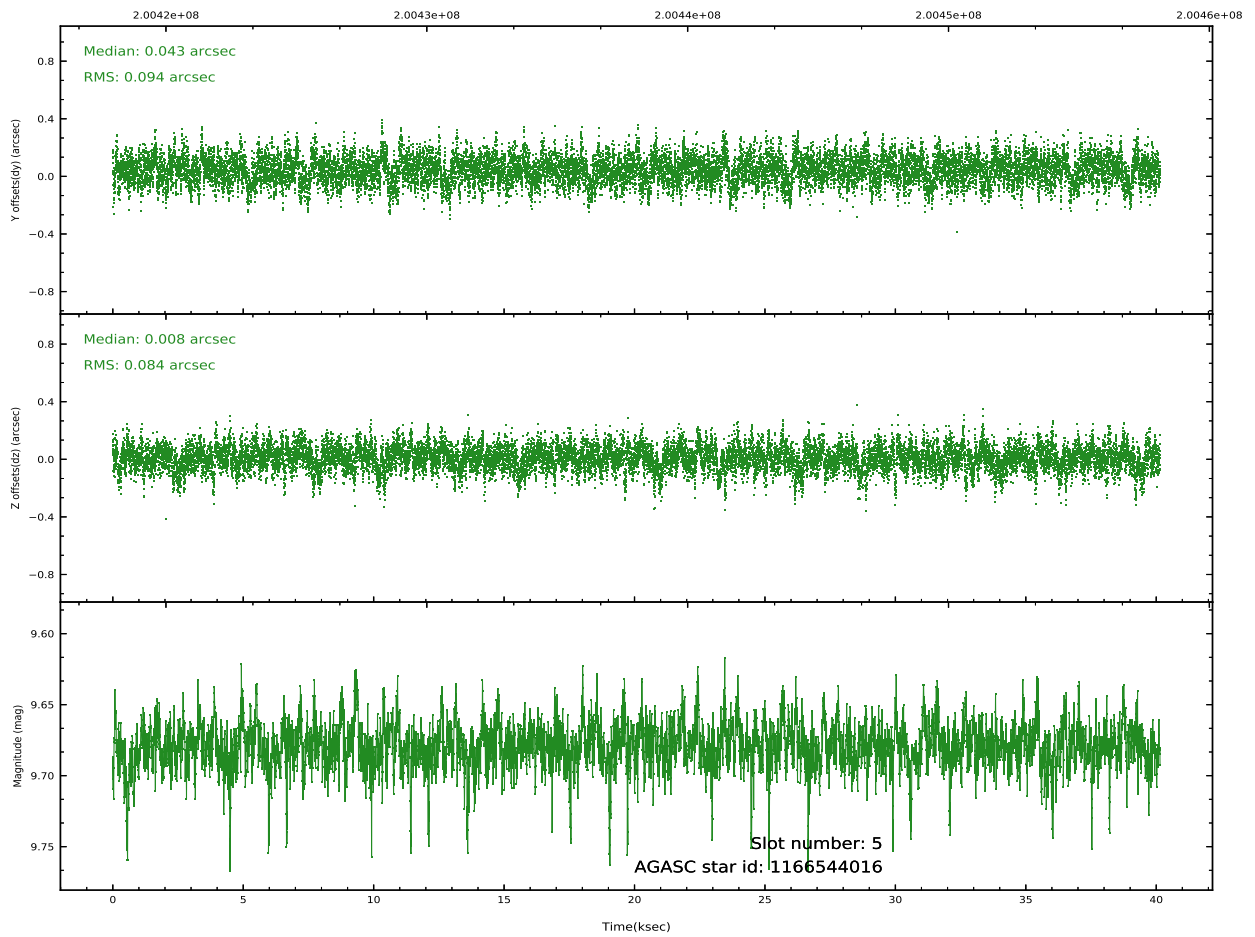
Time (s)



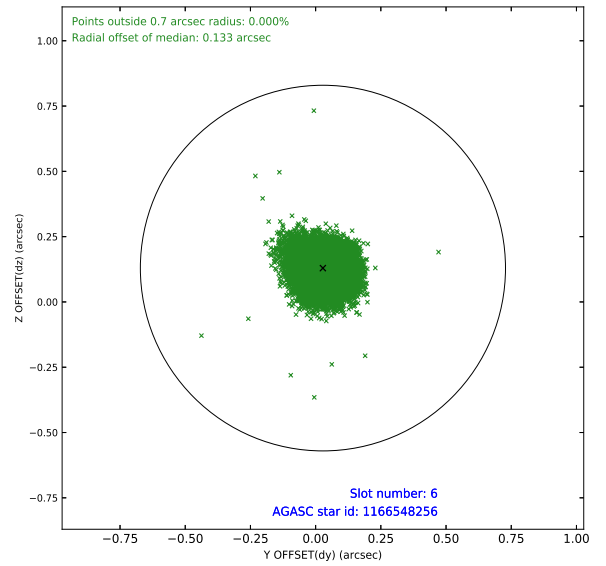
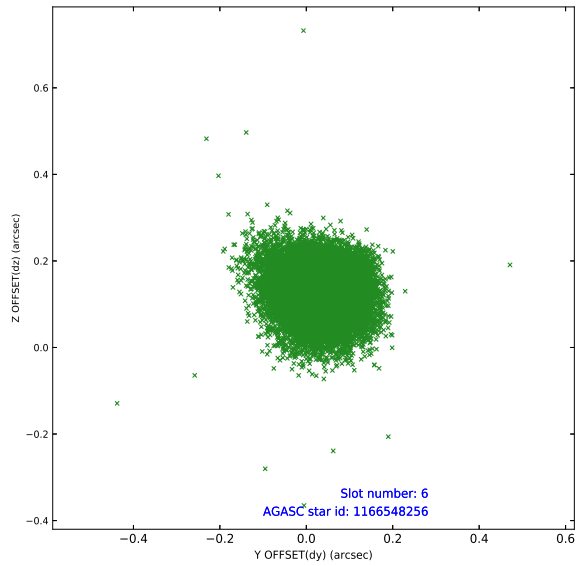
2.4.3 Slot 5



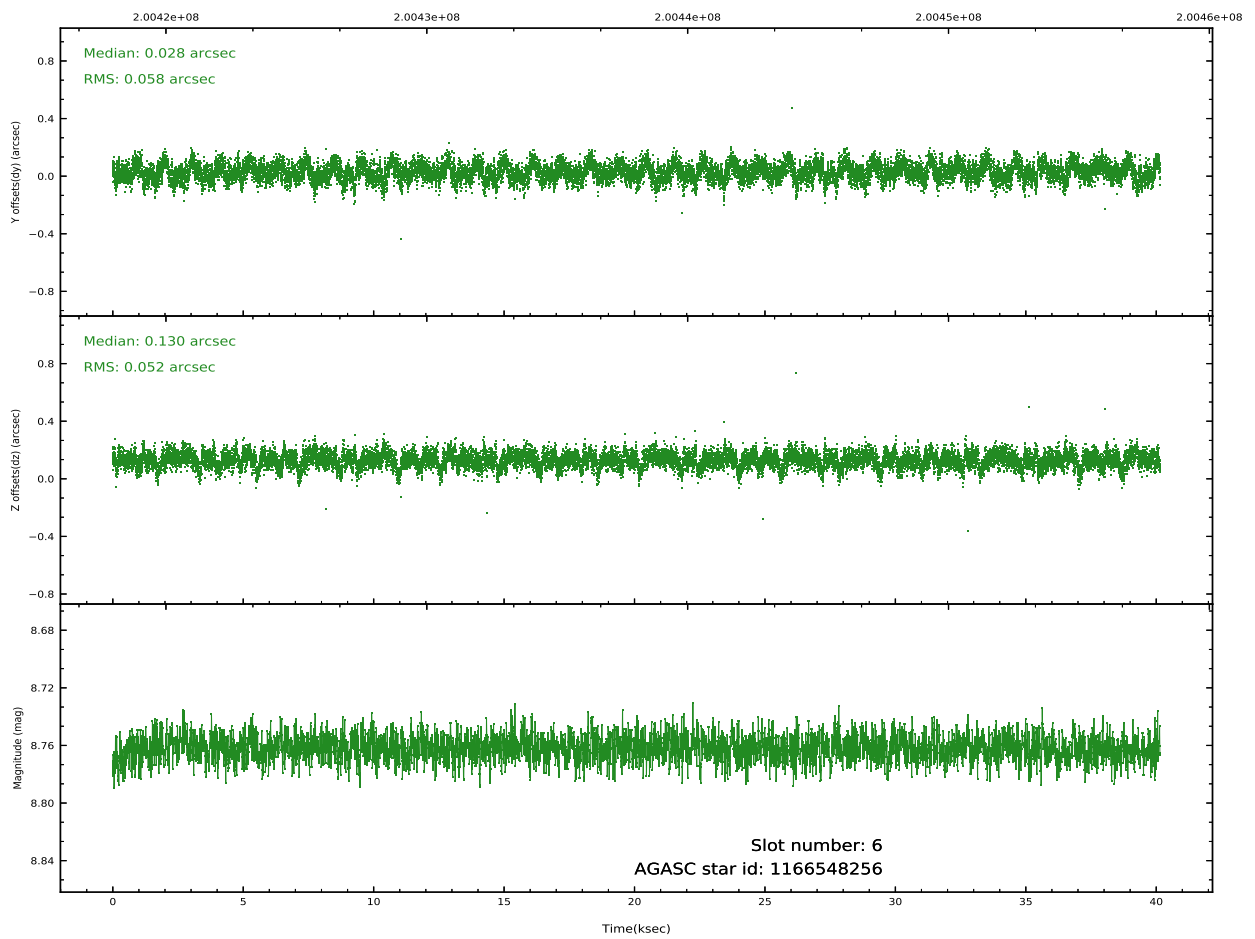
Time (s)



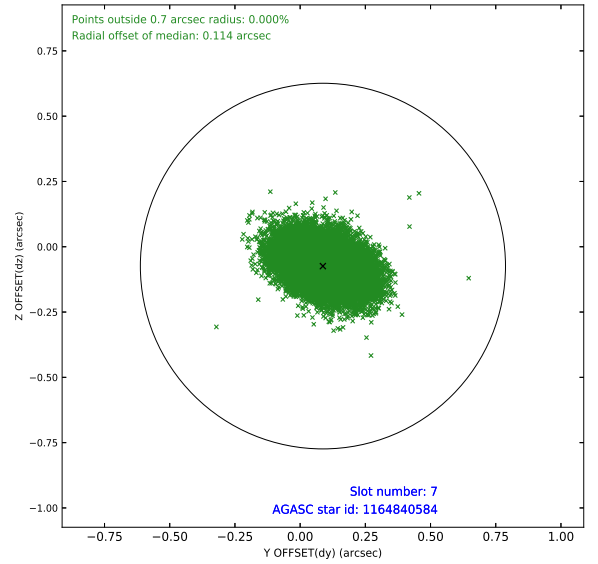
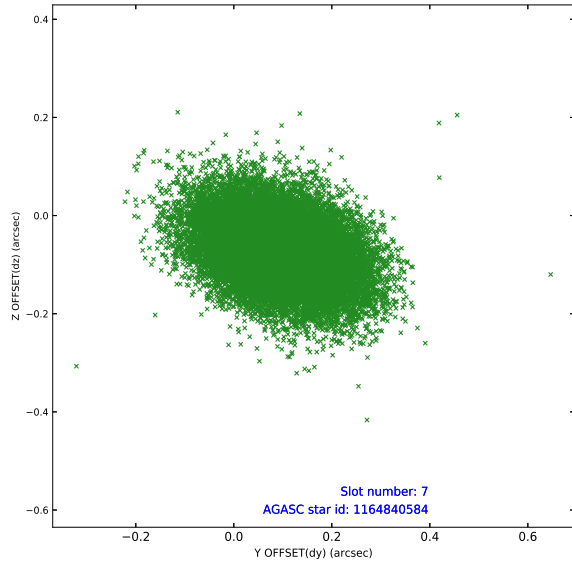
2.4.4 Slot 6



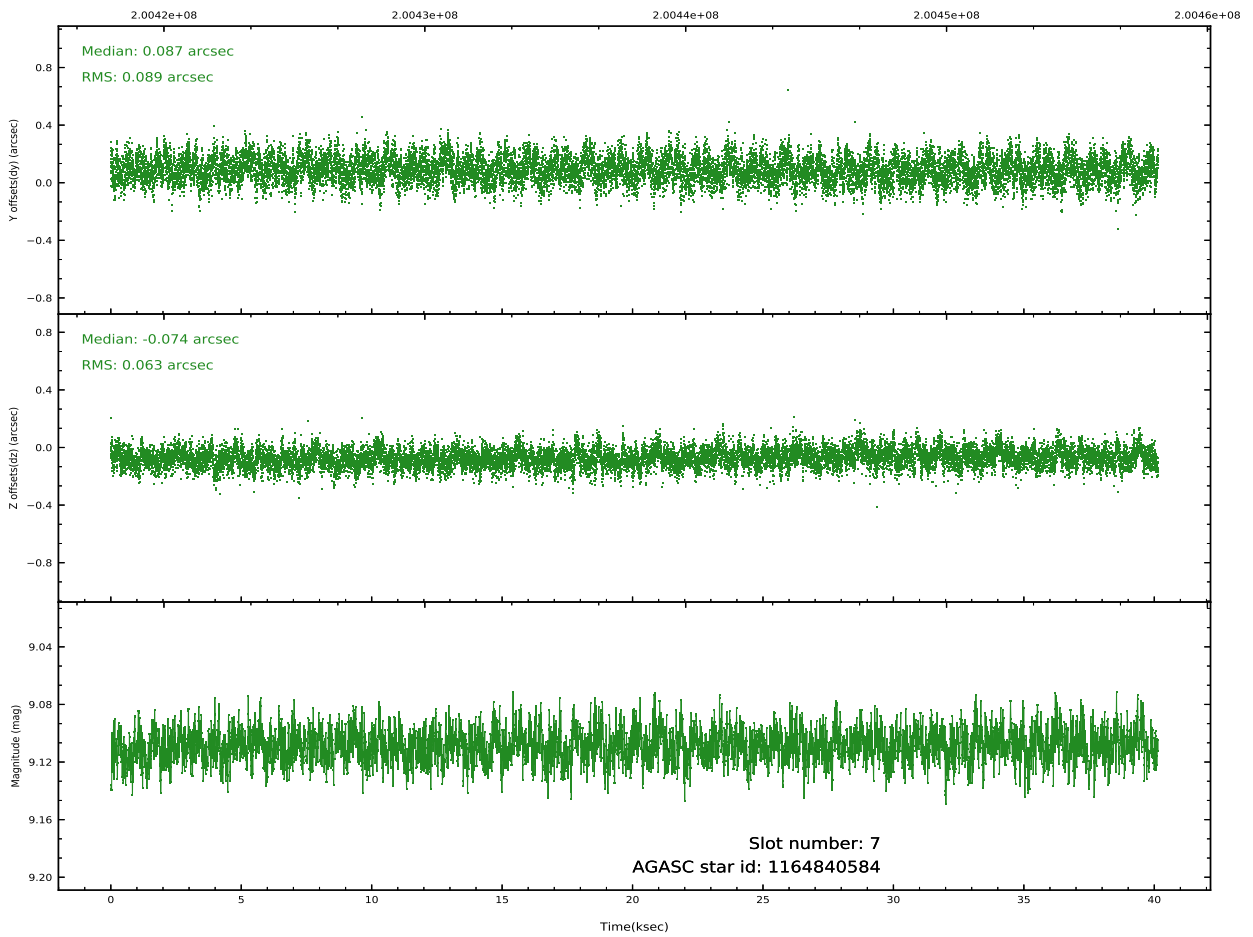
Time (s)



2.4.5 Slot 7

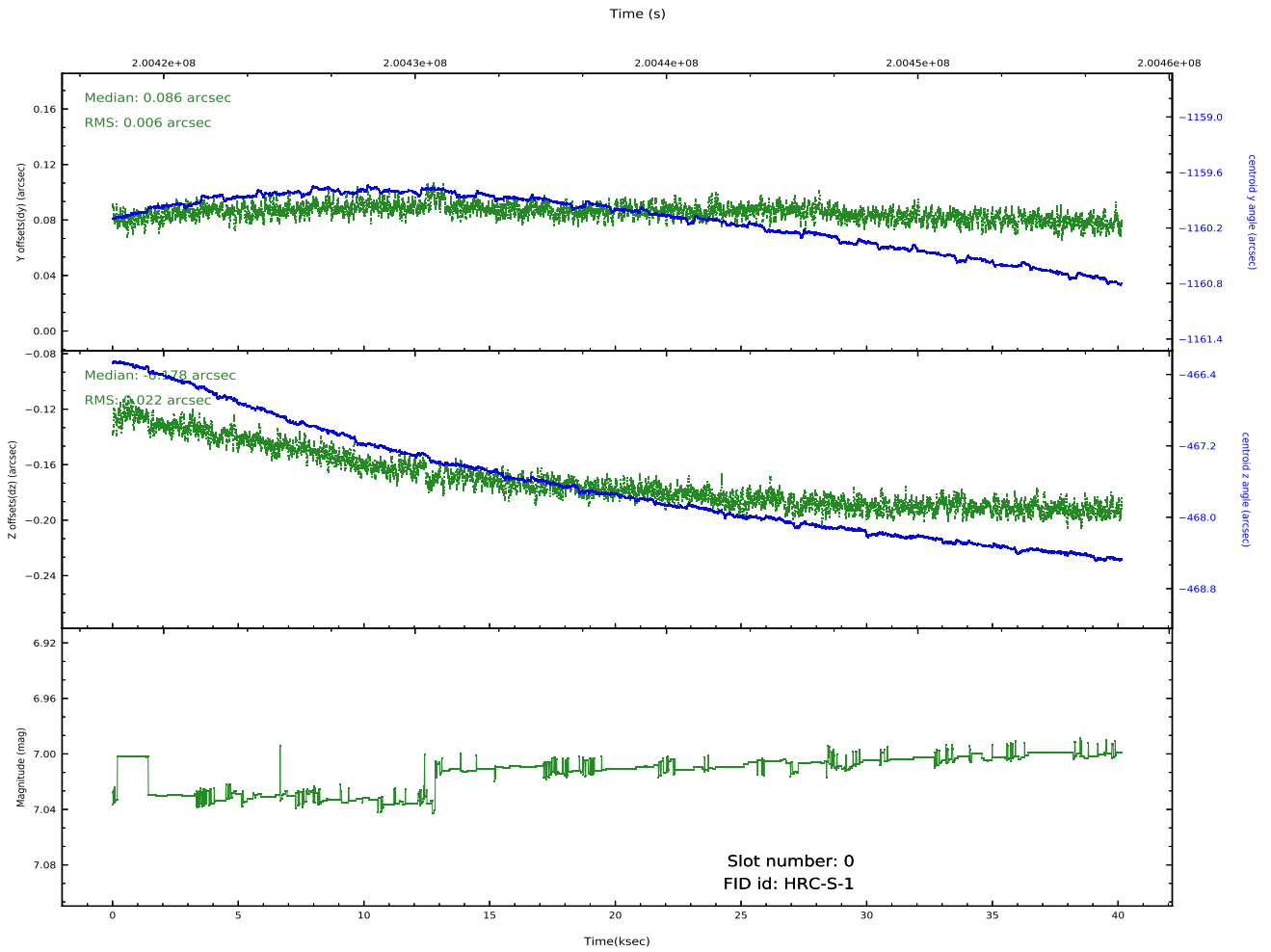
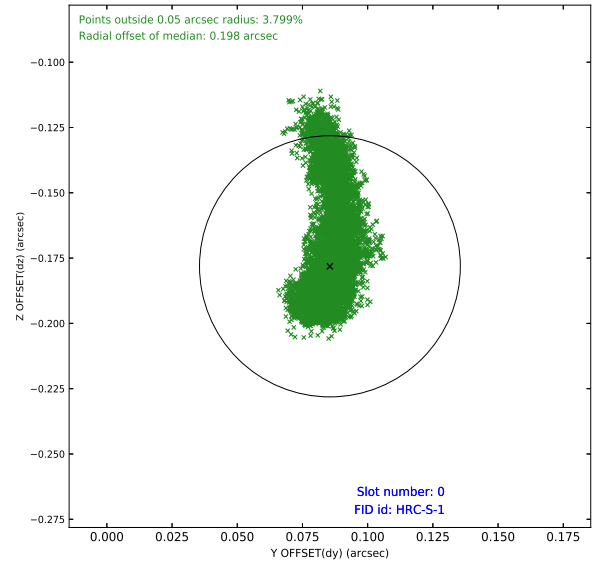
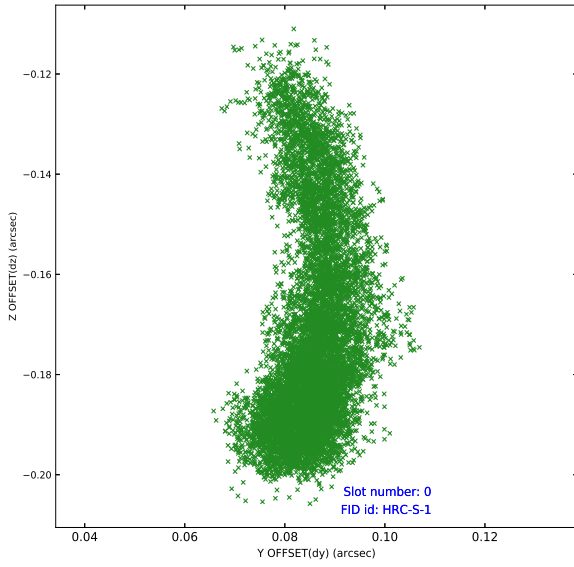


Time (s)

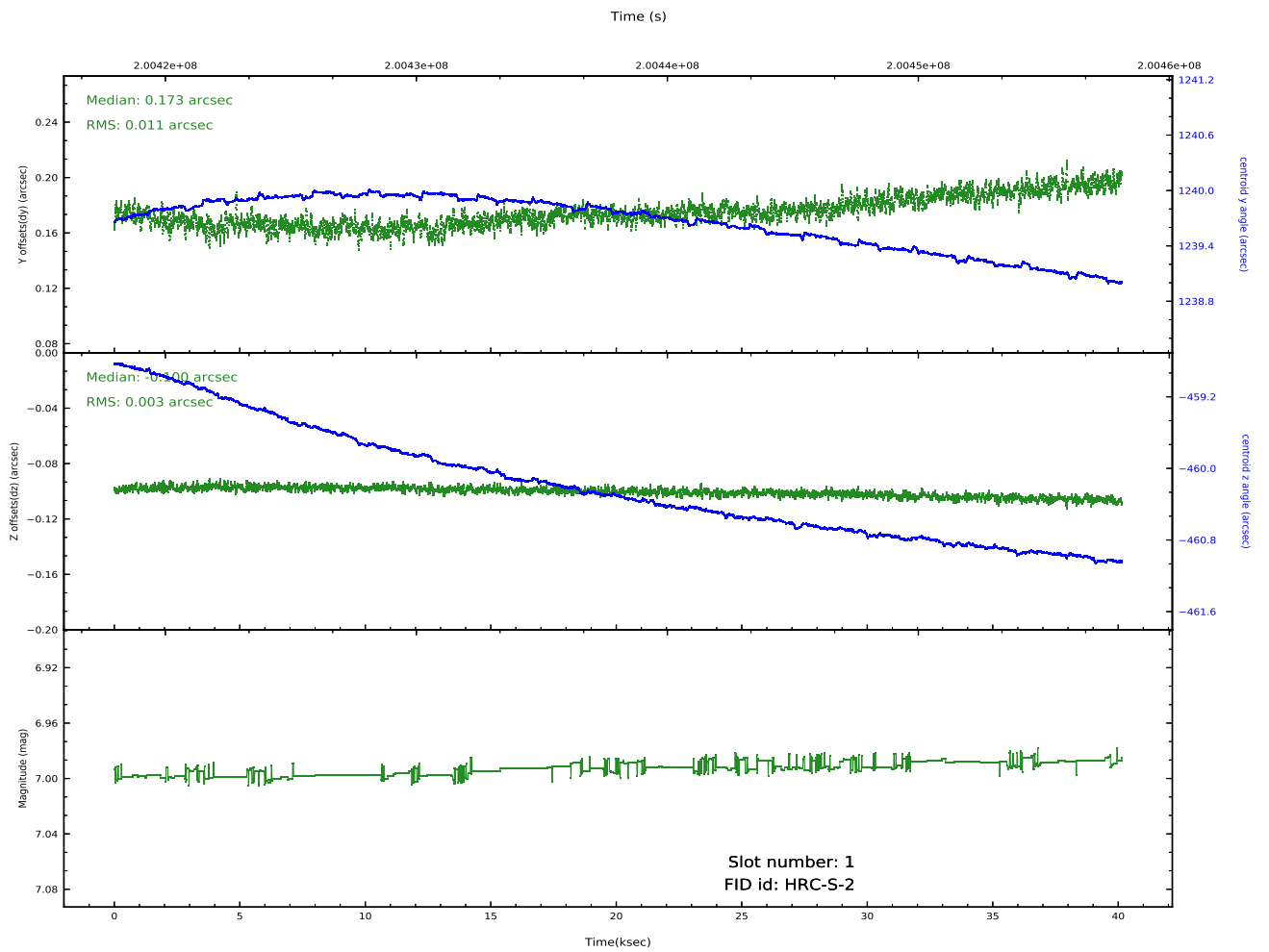
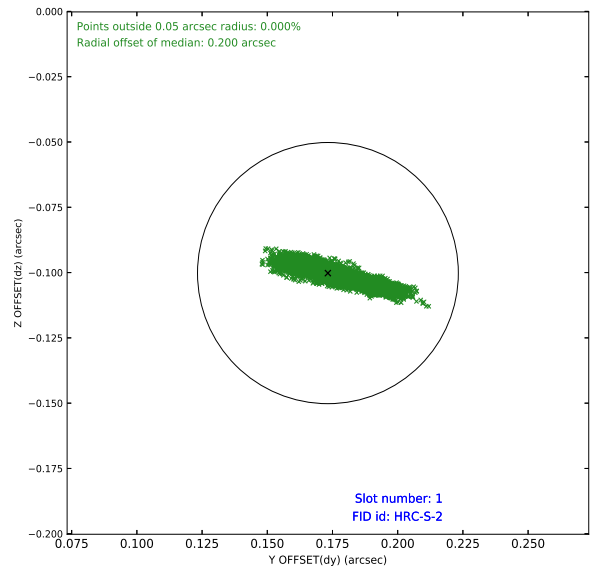
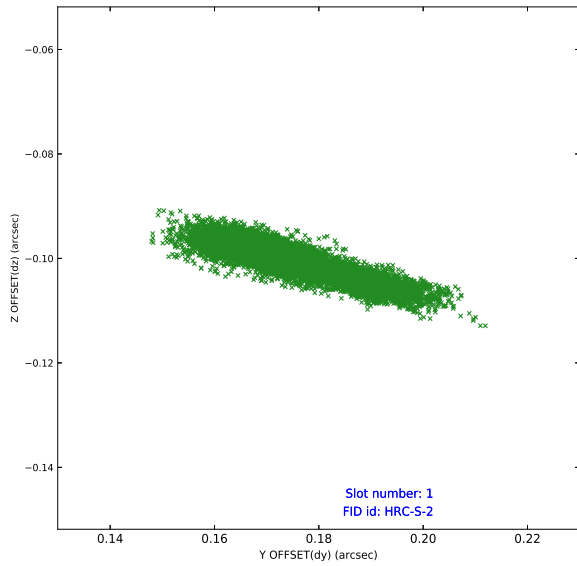


2.5 FID Slots

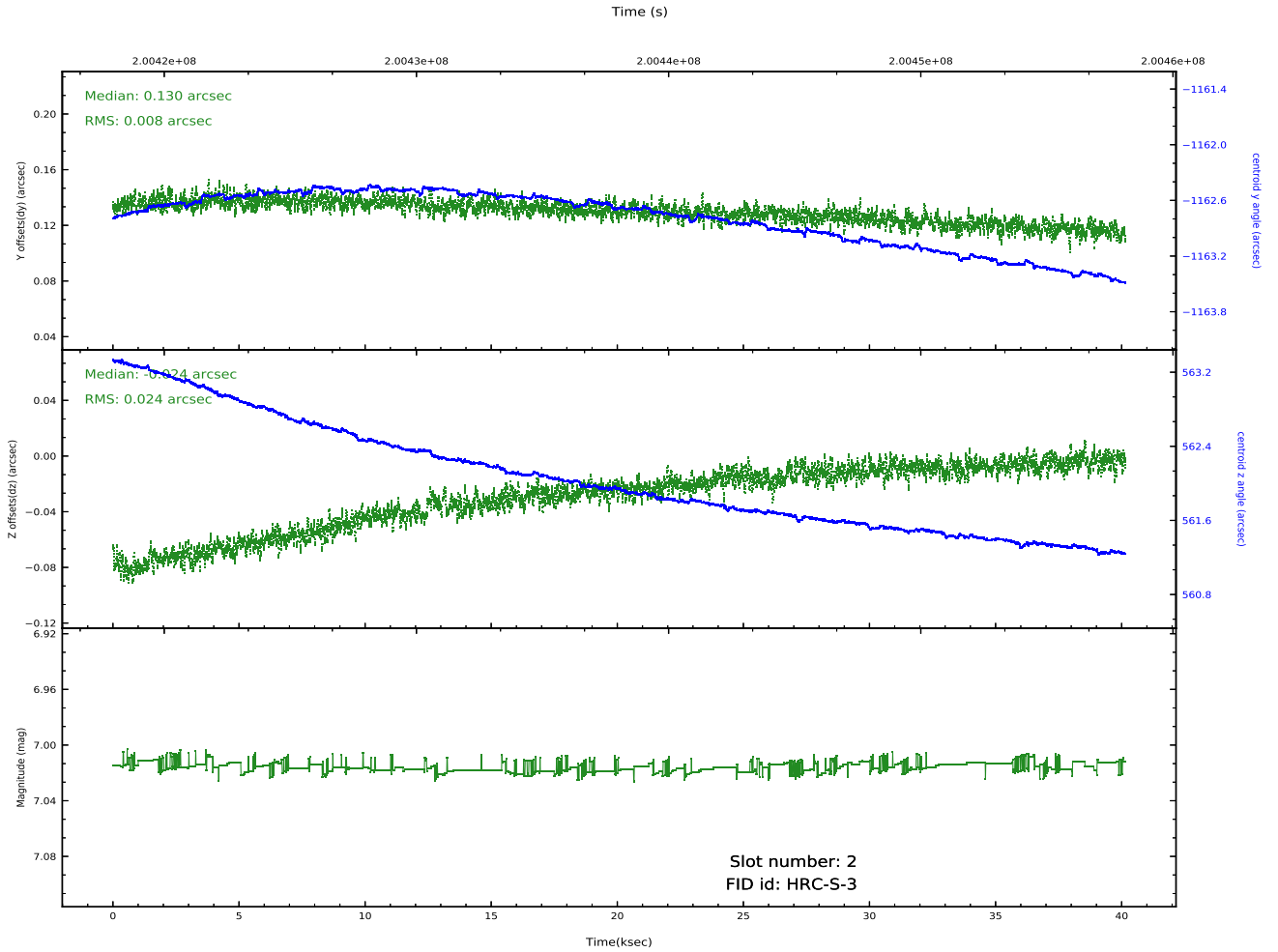
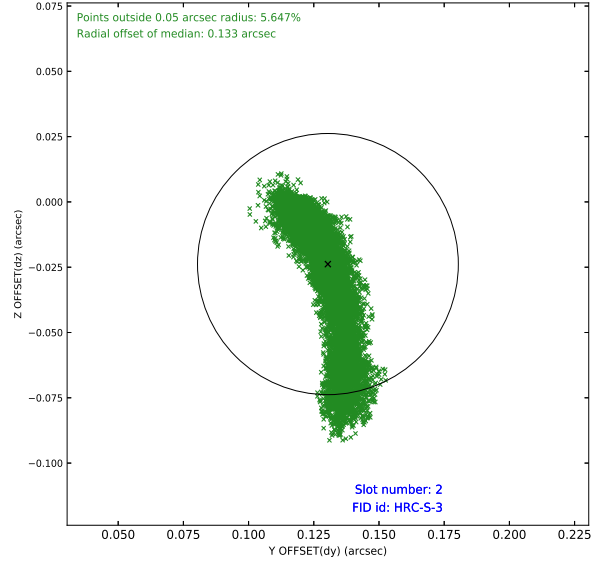
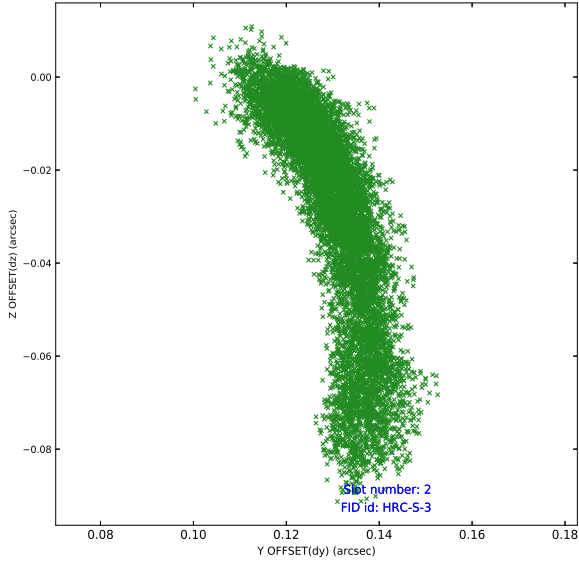
2.5.1 Slot 0



2.5.2 Slot 1

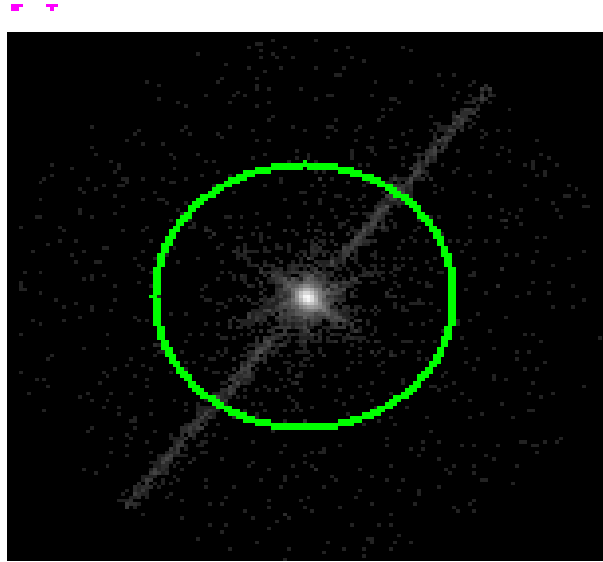


2.5.3 Slot 2

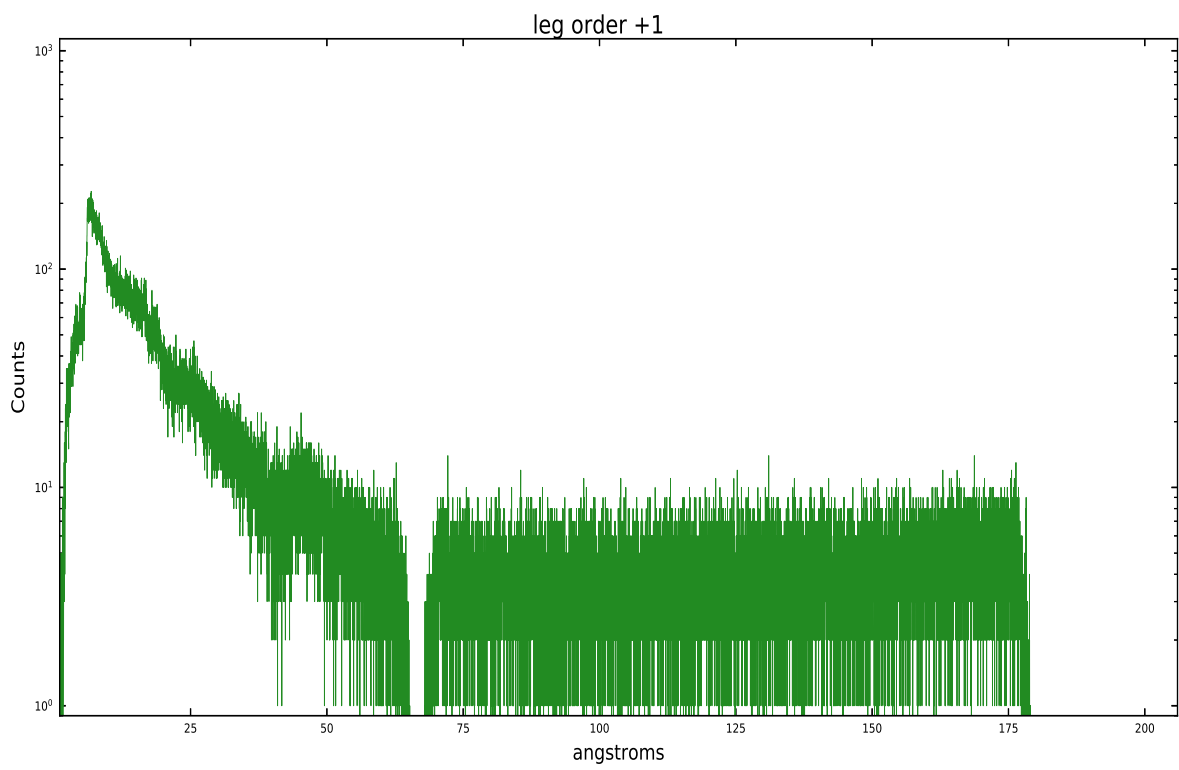
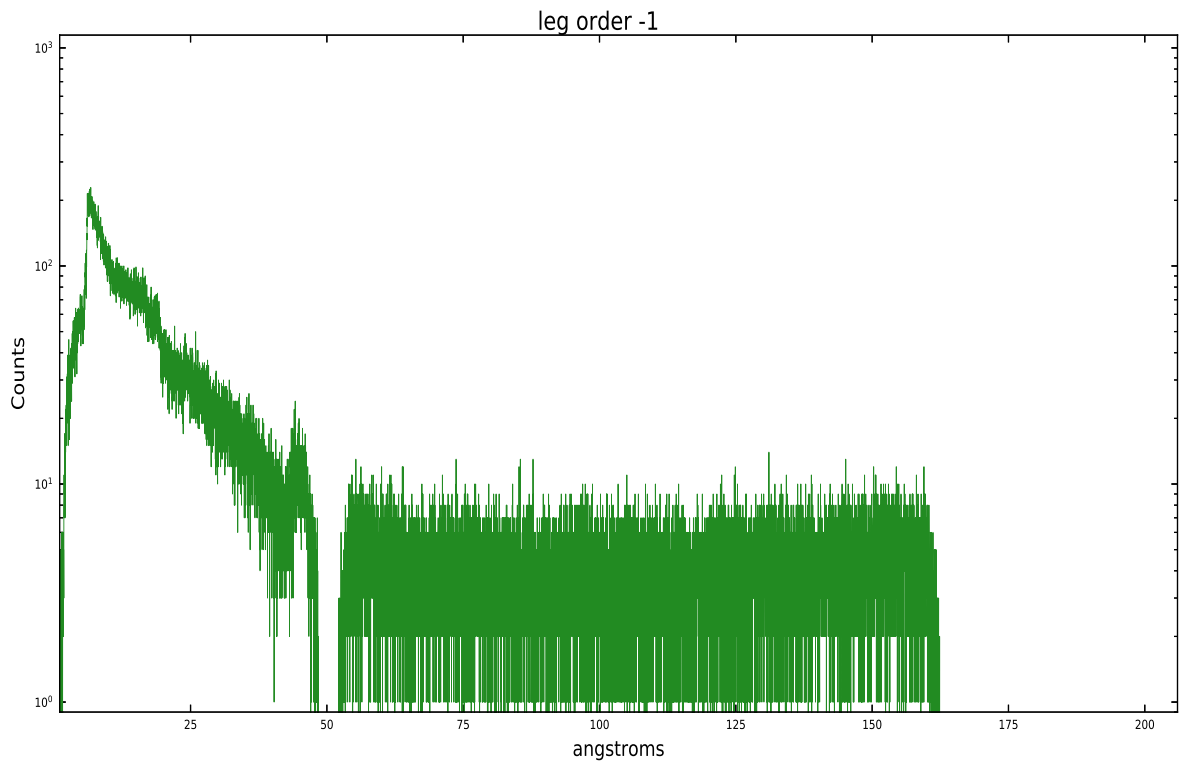


3 Gratings

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	39.831

A.2 Comments