

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 20904 - L2 Version 1
Chandra X-Ray Center

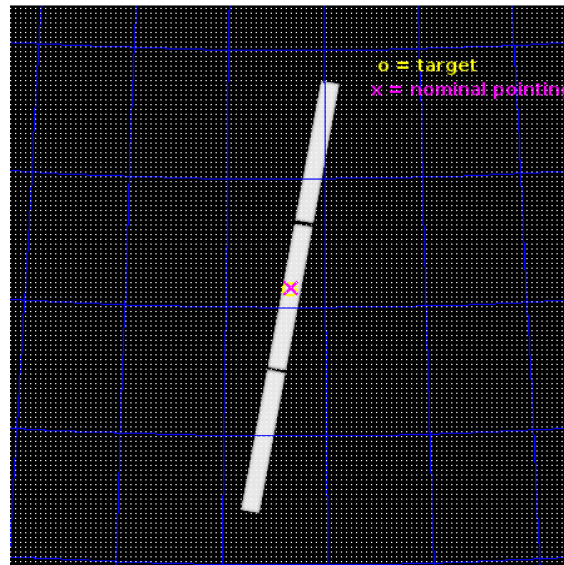
L2 Processing Date : Dec 26 2017

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

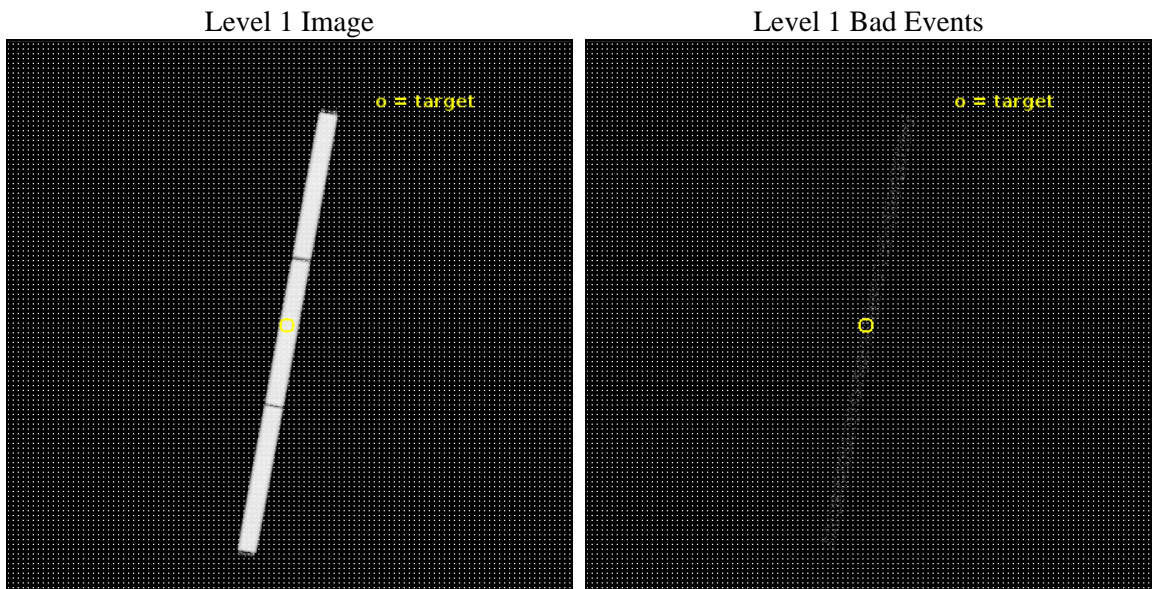
seq_num	703368	Sequence number
obs_id	20904	Observation id
title	The origin of variability in NGC 3516: obscuring disk wind?	Propos
observer	Missagh Mehdipour	Principal investigator
object	NGC 3516	Source name
ra_targ	166.697917	Observer's specified target RA [deg]
dec_targ	72.568611	Observer's specified target Dec [deg]
ra_nom	166.67209593099	Nominal RA [deg]
dec_nom	72.576053093741	Nominal Dec [deg]
roll_nom	100.09195578512	Nominal Roll [deg]
revision	1	Processing version of data
ontime	36173.277126193	[s]
livetime	35823.239931845	Ontime multiplied by DTCOR
l2events	3169429	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	36000.000000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	36173.277126193	[s]
caldsver	4.7.7	 	l1events	4002403	Number of level 1 events
date	2017-12-26T23:06:21	Date and time of file creation	tgmethod	TGDETECT	Method used to create src1a file
revision	1	Processing version of data	zo_pos	(32551.39, 32567.90)	src1a sky pixel position

2.1.3 Events

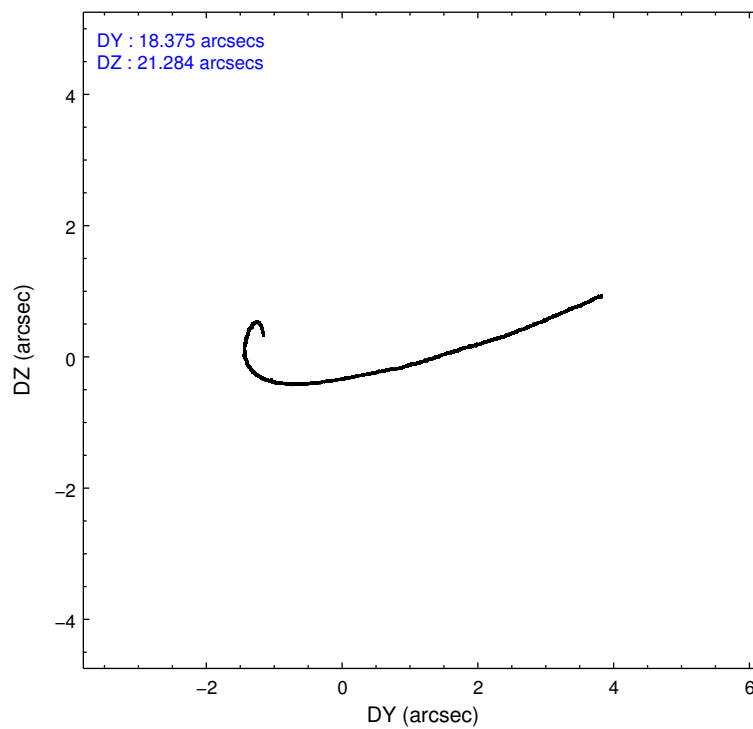
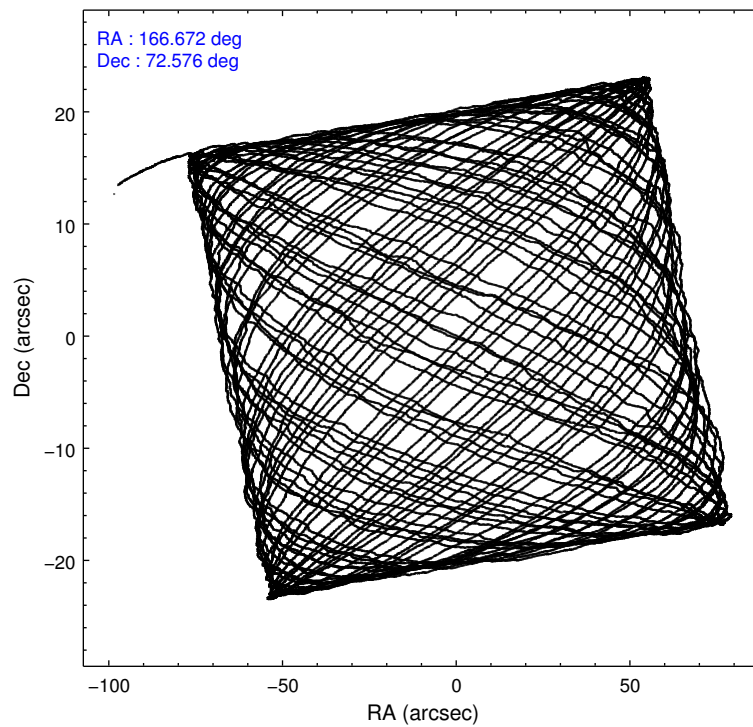
Level 1 Events

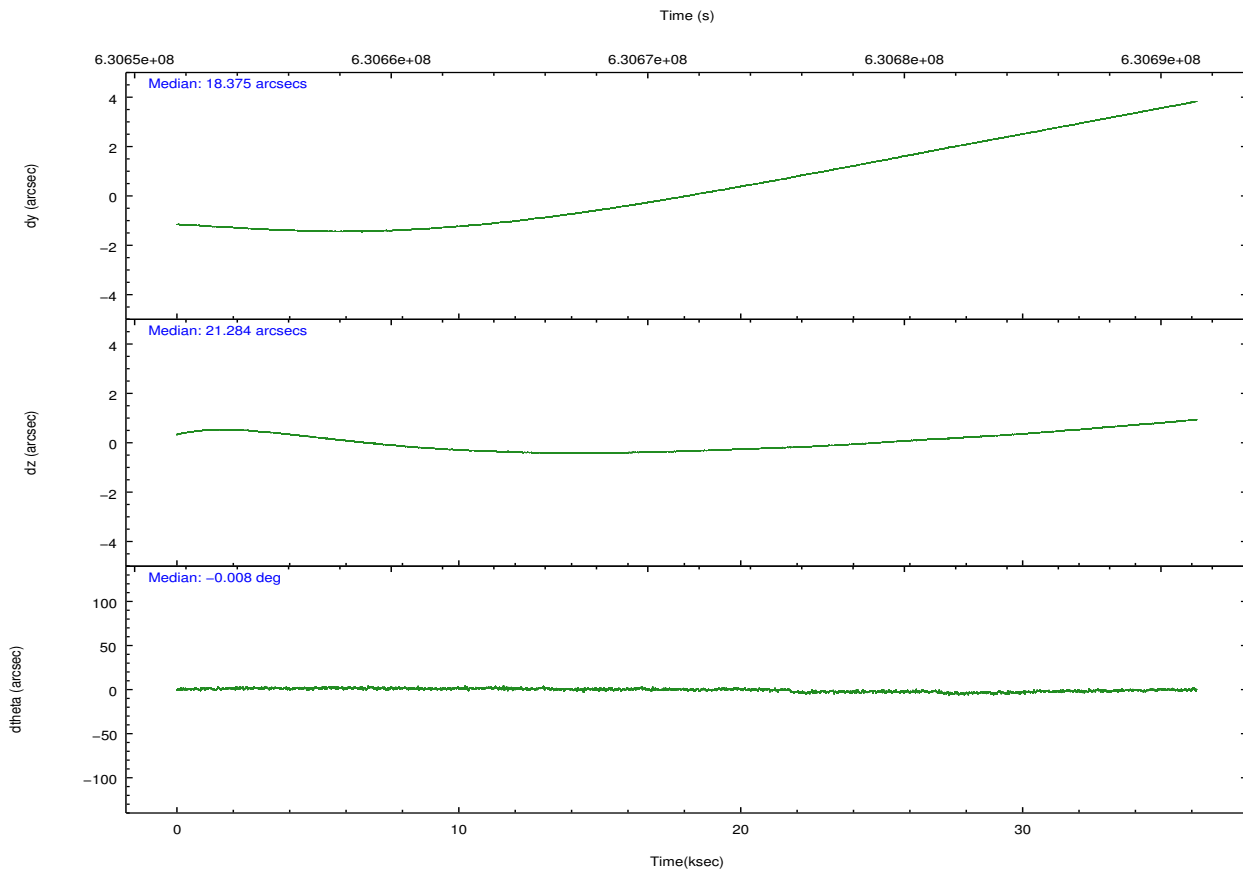
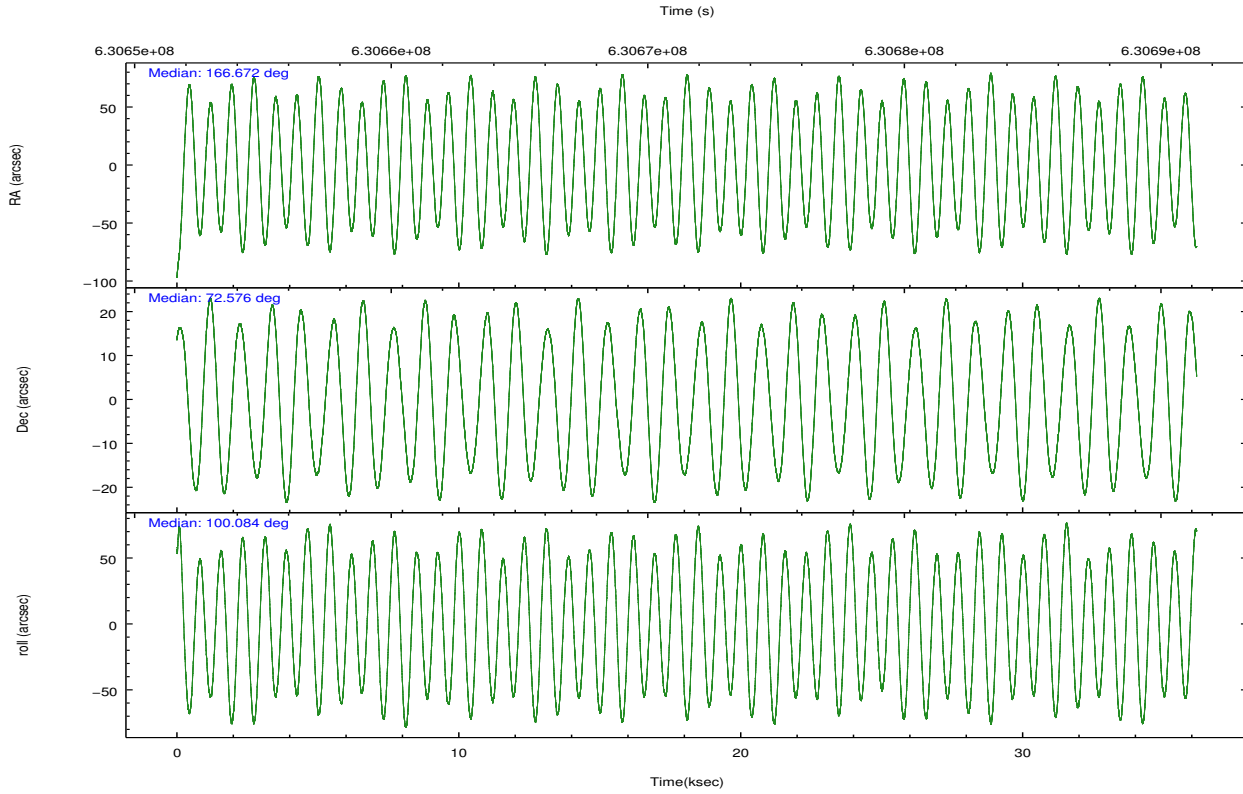
	segment 1	segment 2	segment 3
level 1 events	1342247	1330173	1329983
rejected events	33158	32639	32711
rejected %	2%	2%	2%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	HRC	HRC	Obspar format version number	7	7
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	166.737660	166.672095930992			
[deg] Pointing Dec	72.554843	72.57605309374141			
[deg] Pointing Roll	99.962088	100.0919557851205			
[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)	630653605.184000	630652556.76016			
Observation start date	2017-12-26T05:32:16	2017-12-26T05:15:56			
[s] Observation end time (MET)	630689605.184000	630690469.97489			
Observation end date	2017-12-26T15:32:16	2017-12-26T15:47:49			

2.3 Aspect





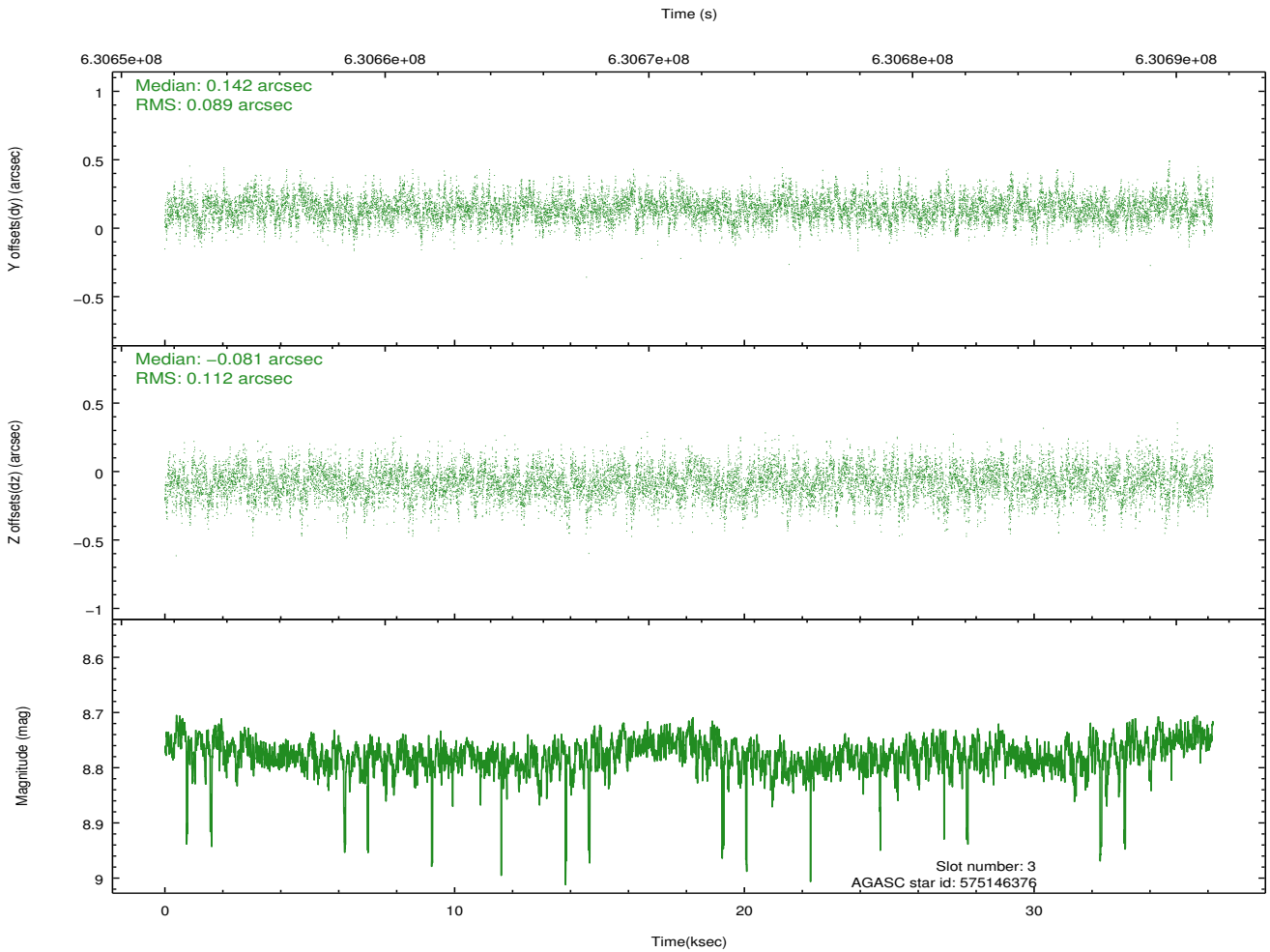
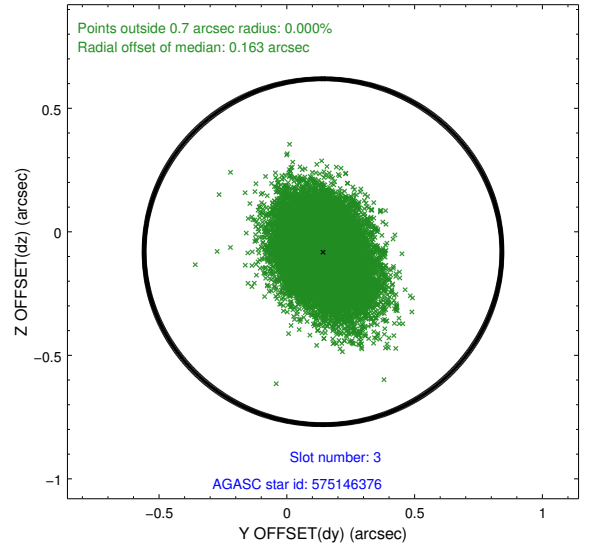
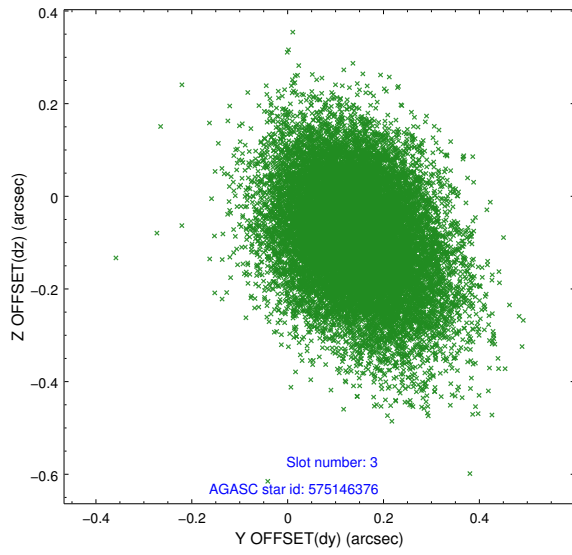
Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		HRC-S-1	7.06	8824	-0.217	-0.212	0.017	0.048	0.000000	0.000000	-1173.55	-470.55
1	FID		HRC-S-2	7.02	8823	0.247	-0.159	0.029	0.049	0.000000	0.000000	1226.46	-462.99
2	FID		HRC-S-4	7.00	8821	0.390	0.064	0.026	0.034	0.000000	0.000000	1225.38	561.97
3	GUIDE	used	575146376	8.78	17628	0.142	-0.081	0.150	0.253	166.888472	72.124920	-1552.65	103.54
4	GUIDE	used	575541080	8.92	17625	0.041	1.069	0.173	0.292	167.870403	73.115273	1793.66	-1515.95
5	GUIDE	used	575541344	9.32	17609	-0.145	-0.578	0.197	0.324	166.947366	72.953762	1376.81	-466.73
6	GUIDE	used	576067400	8.06	17636	0.150	0.558	0.159	0.269	168.743801	72.008418	-2286.02	-1862.47
7	GUIDE	used	575543720	9.31	17612	-0.202	-0.970	0.221	0.362	164.695945	72.631615	687.93	2105.80

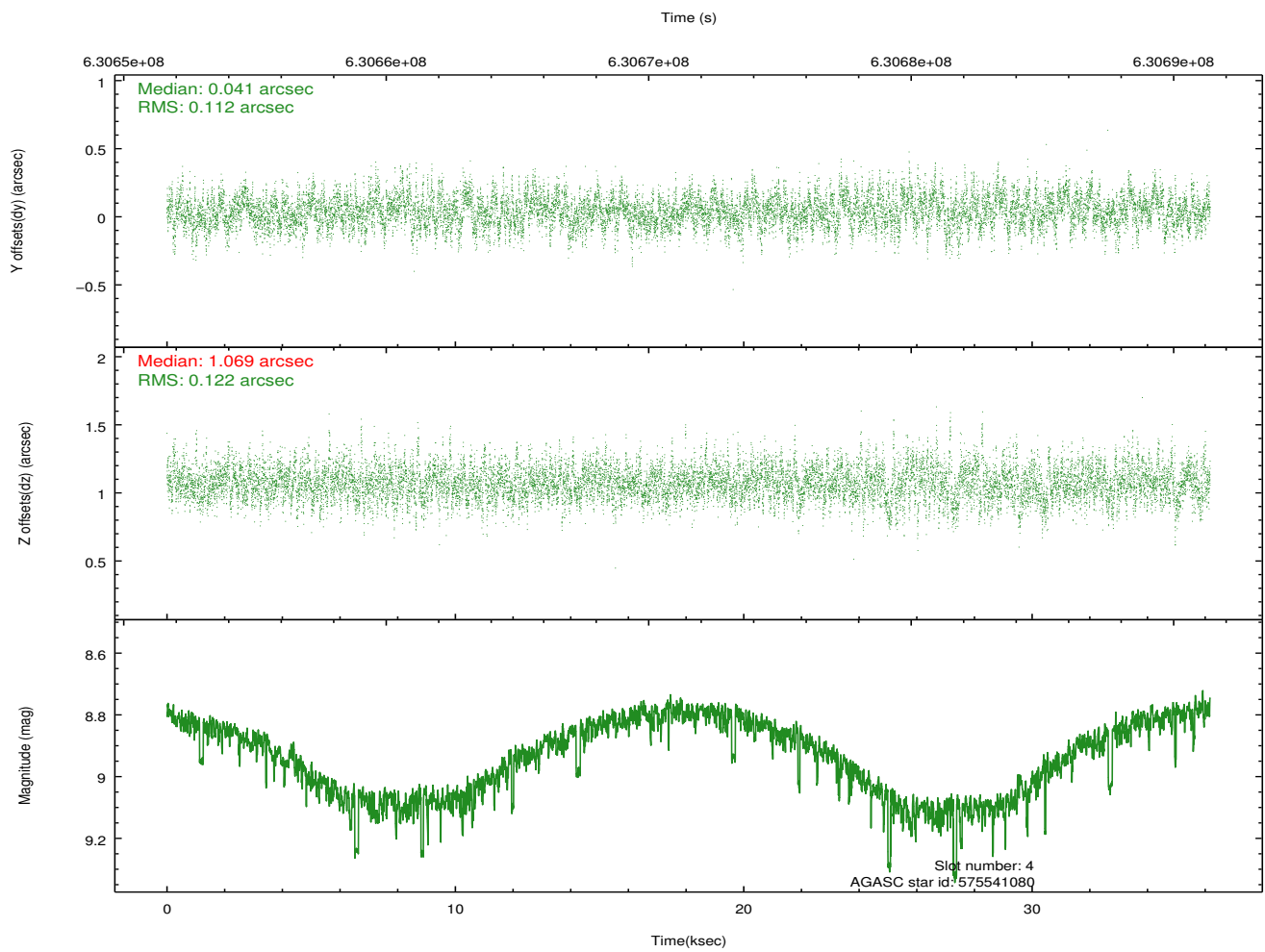
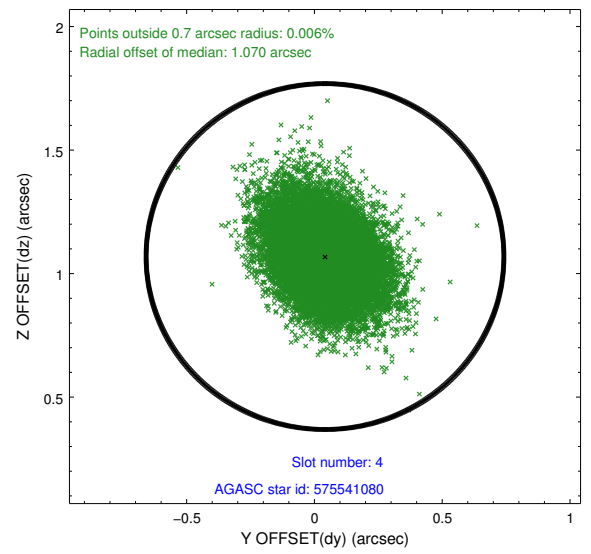
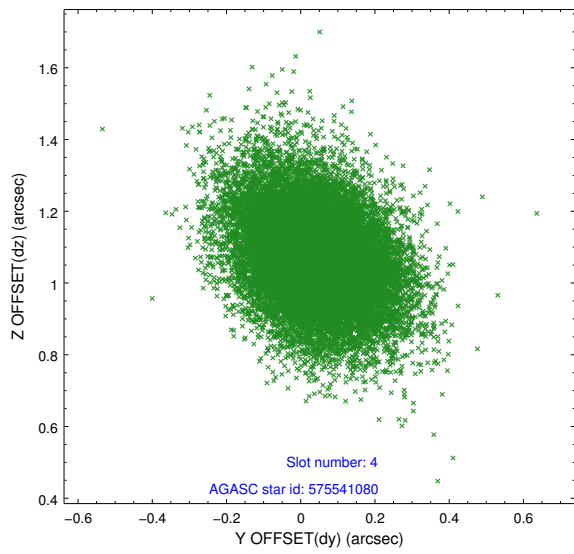
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2.4 Star Slots

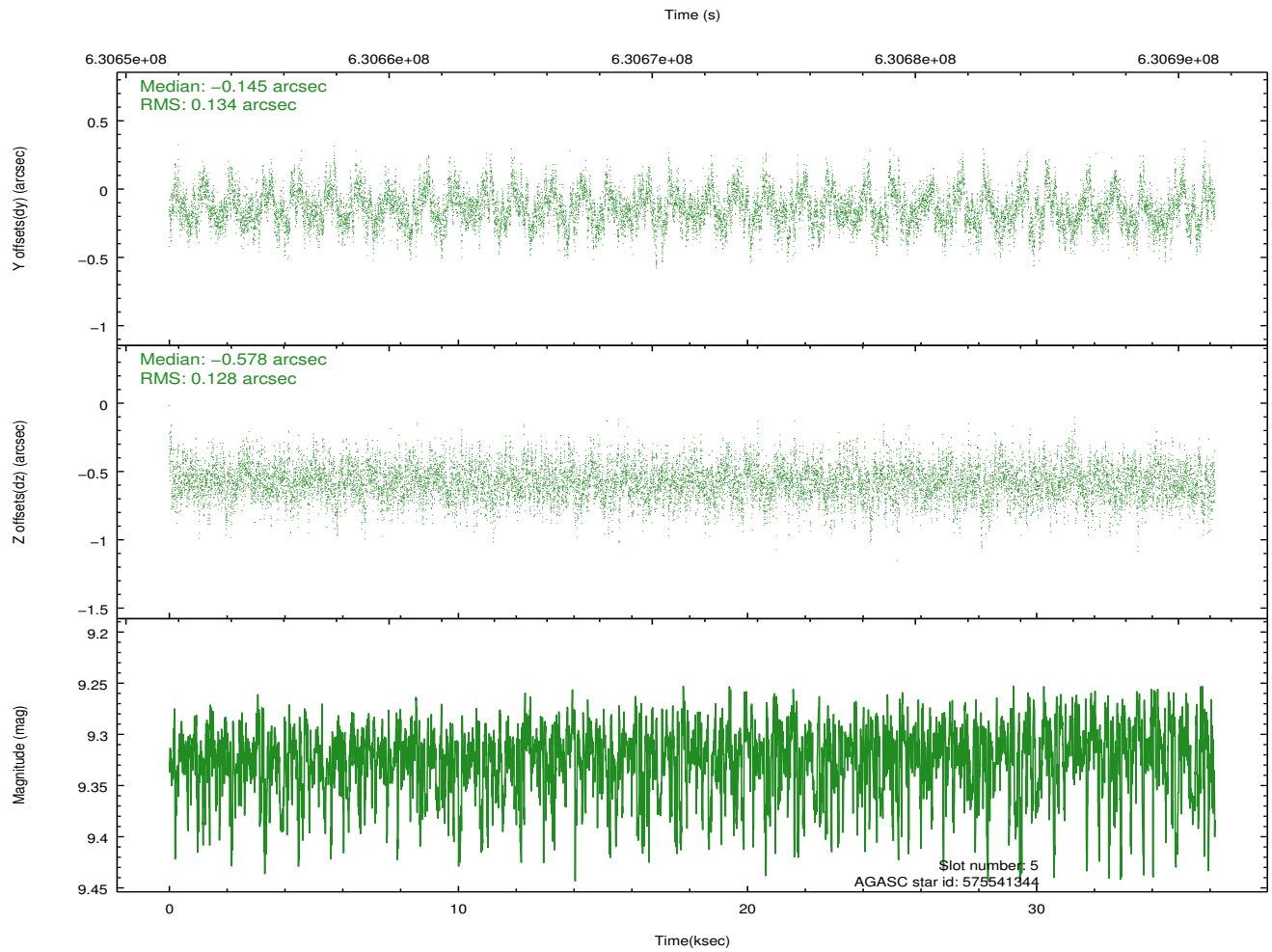
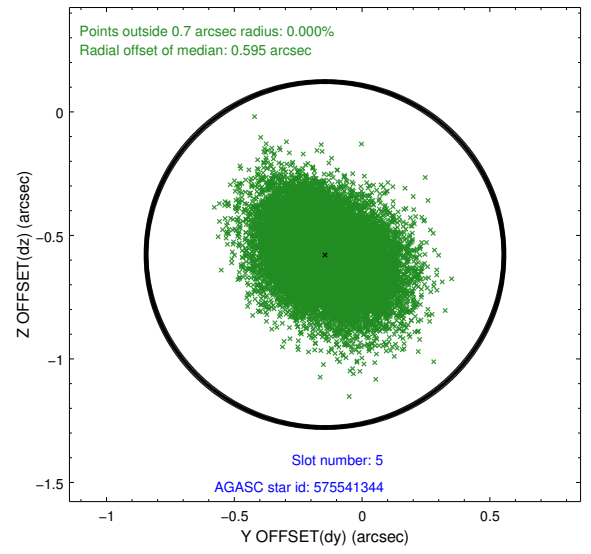
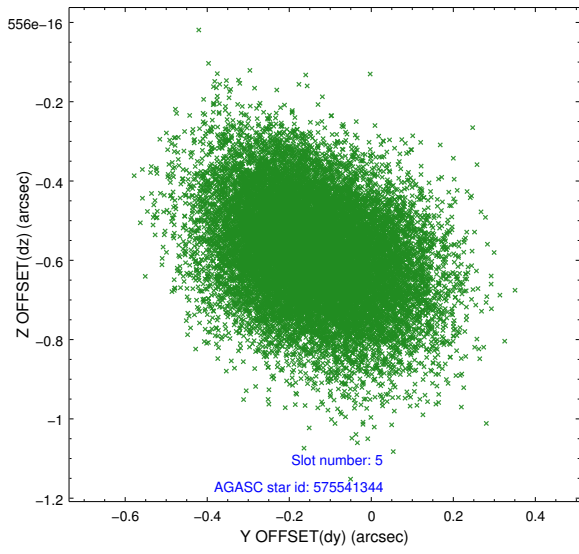
2.4.1 Slot 3



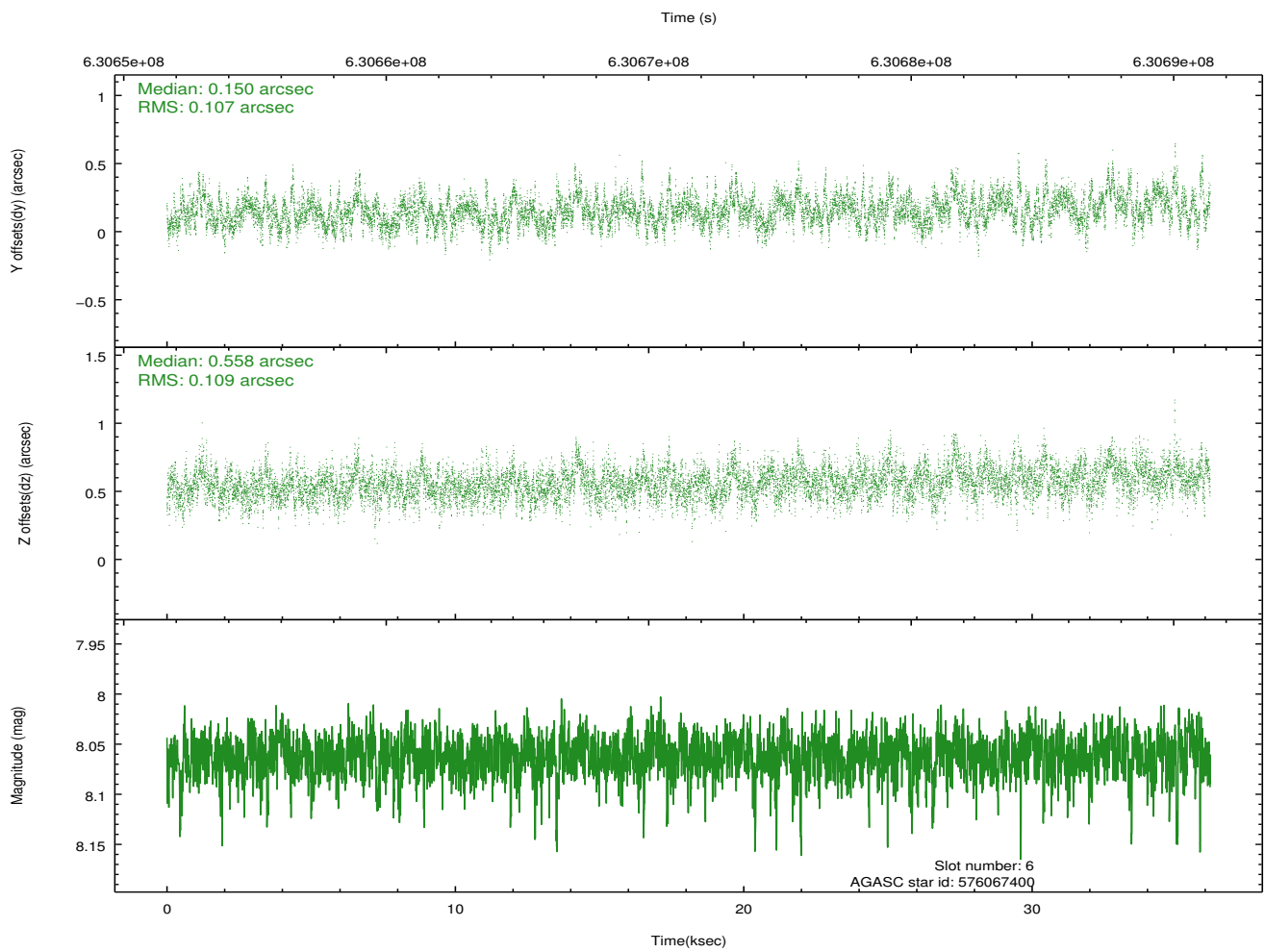
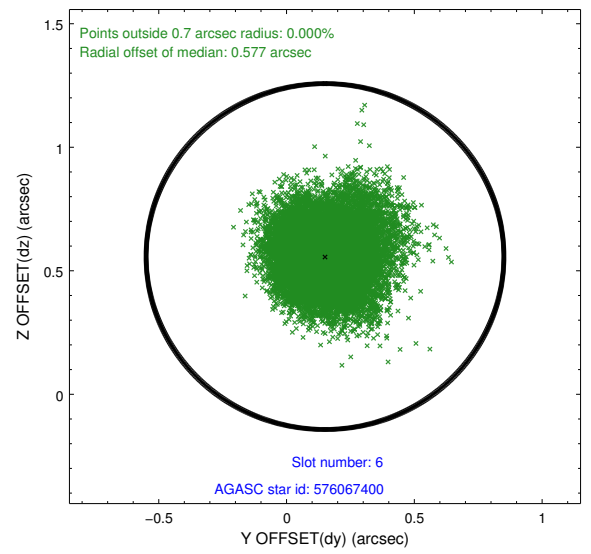
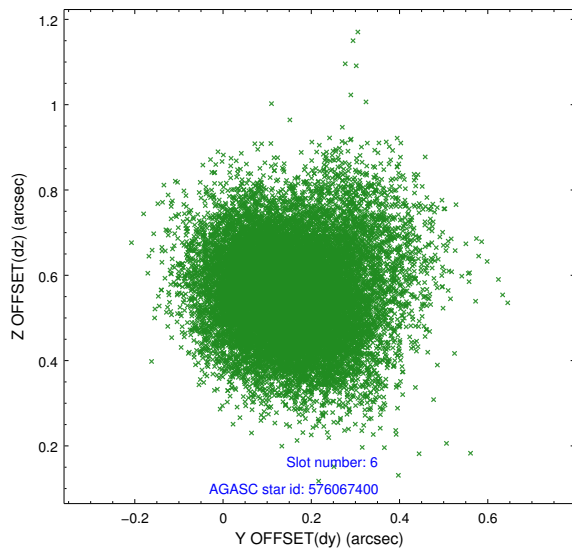
2.4.2 Slot 4



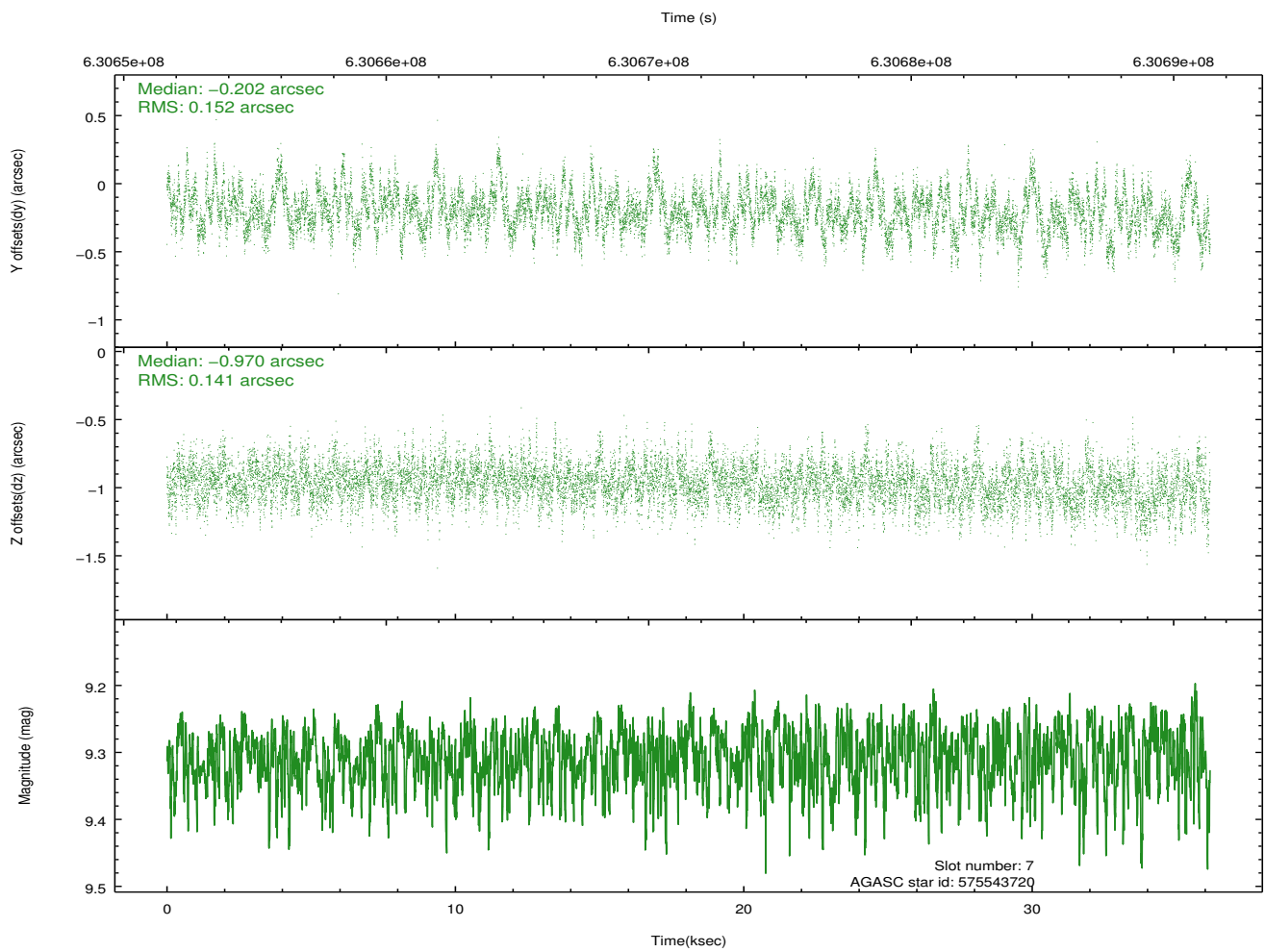
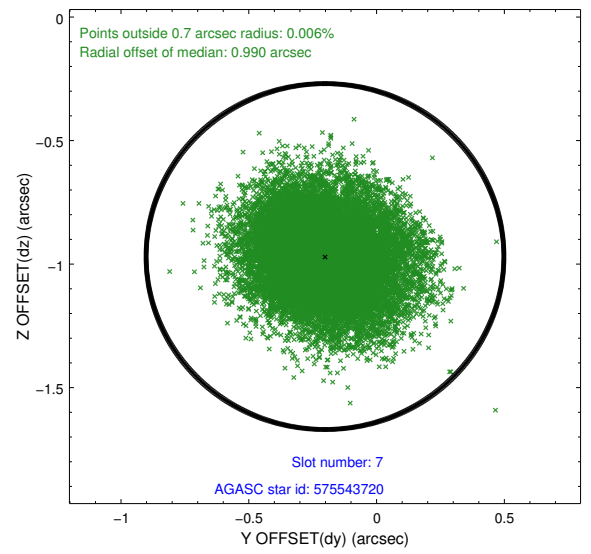
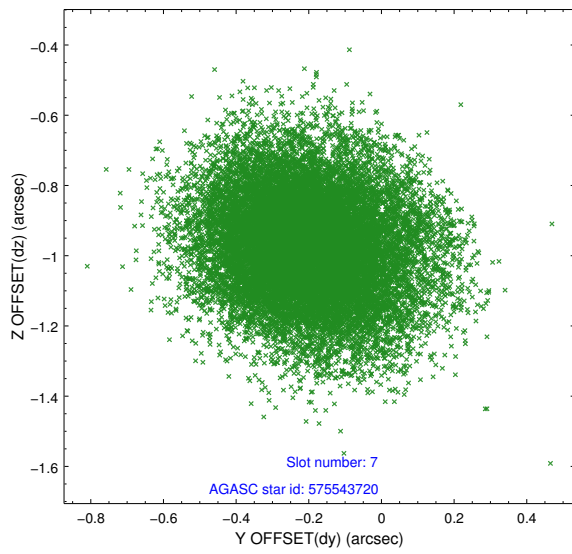
2.4.3 Slot 5



2.4.4 Slot 6

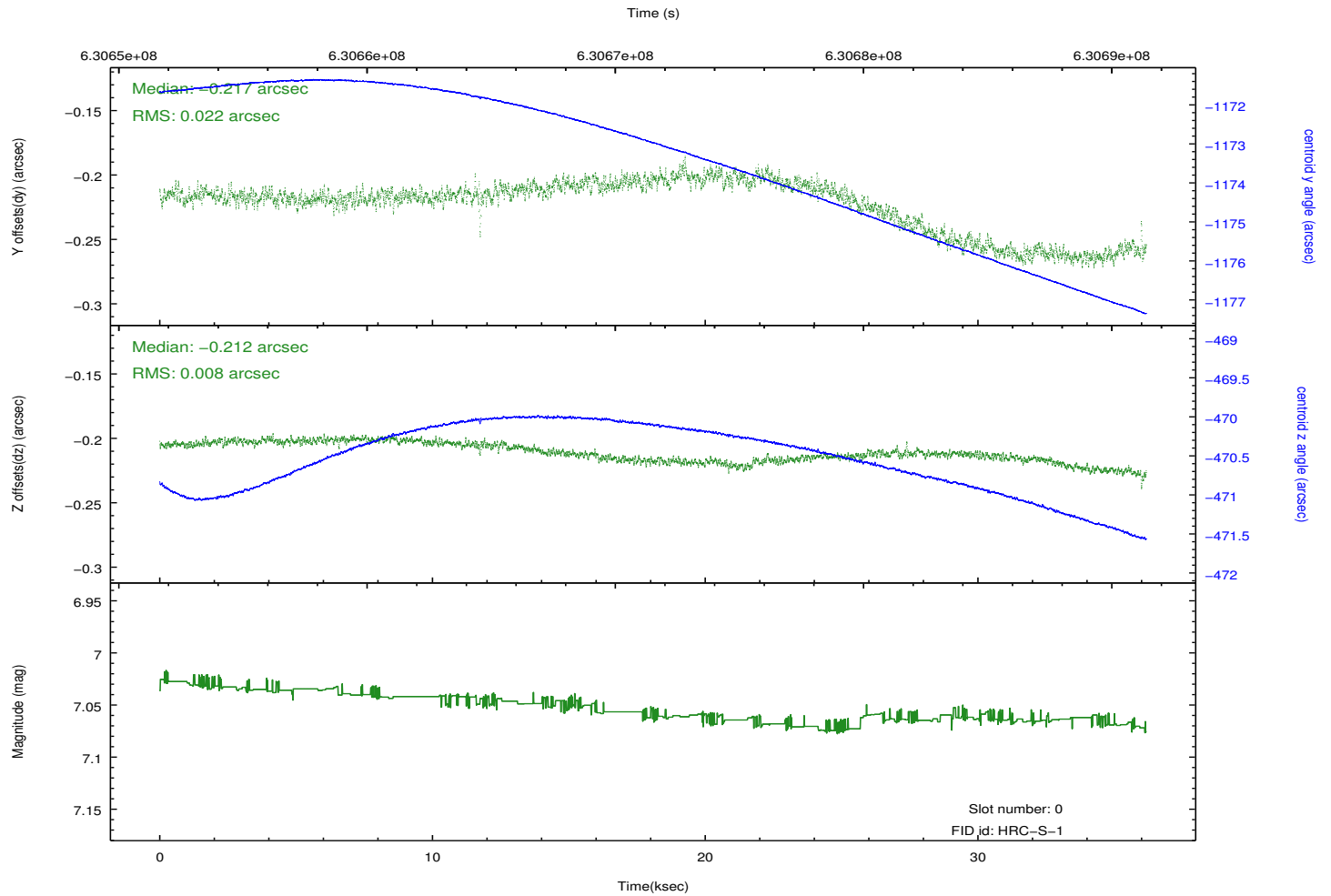
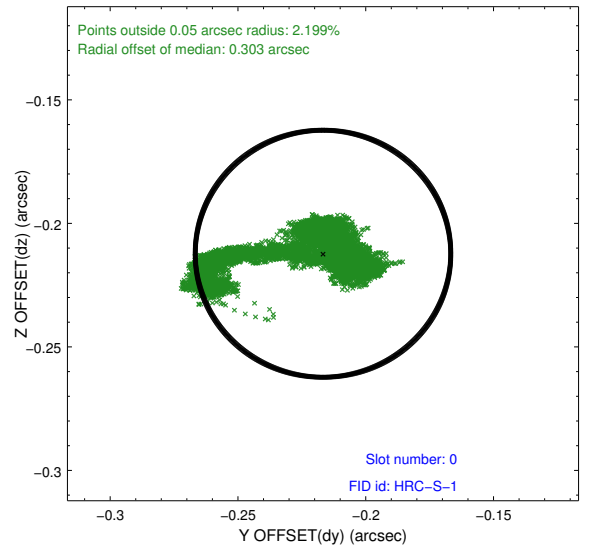
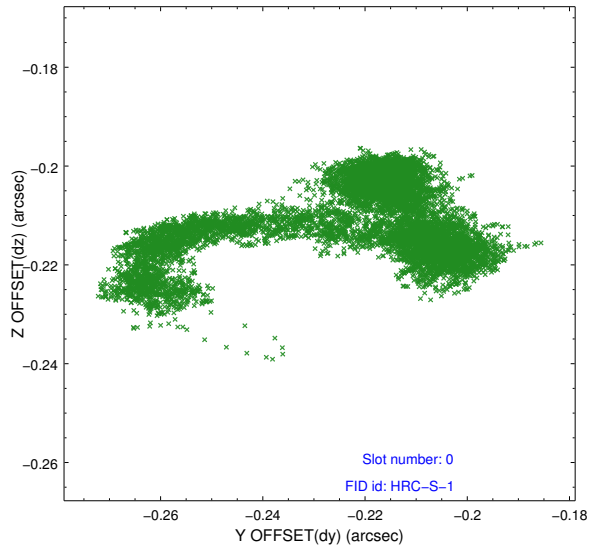


2.4.5 Slot 7

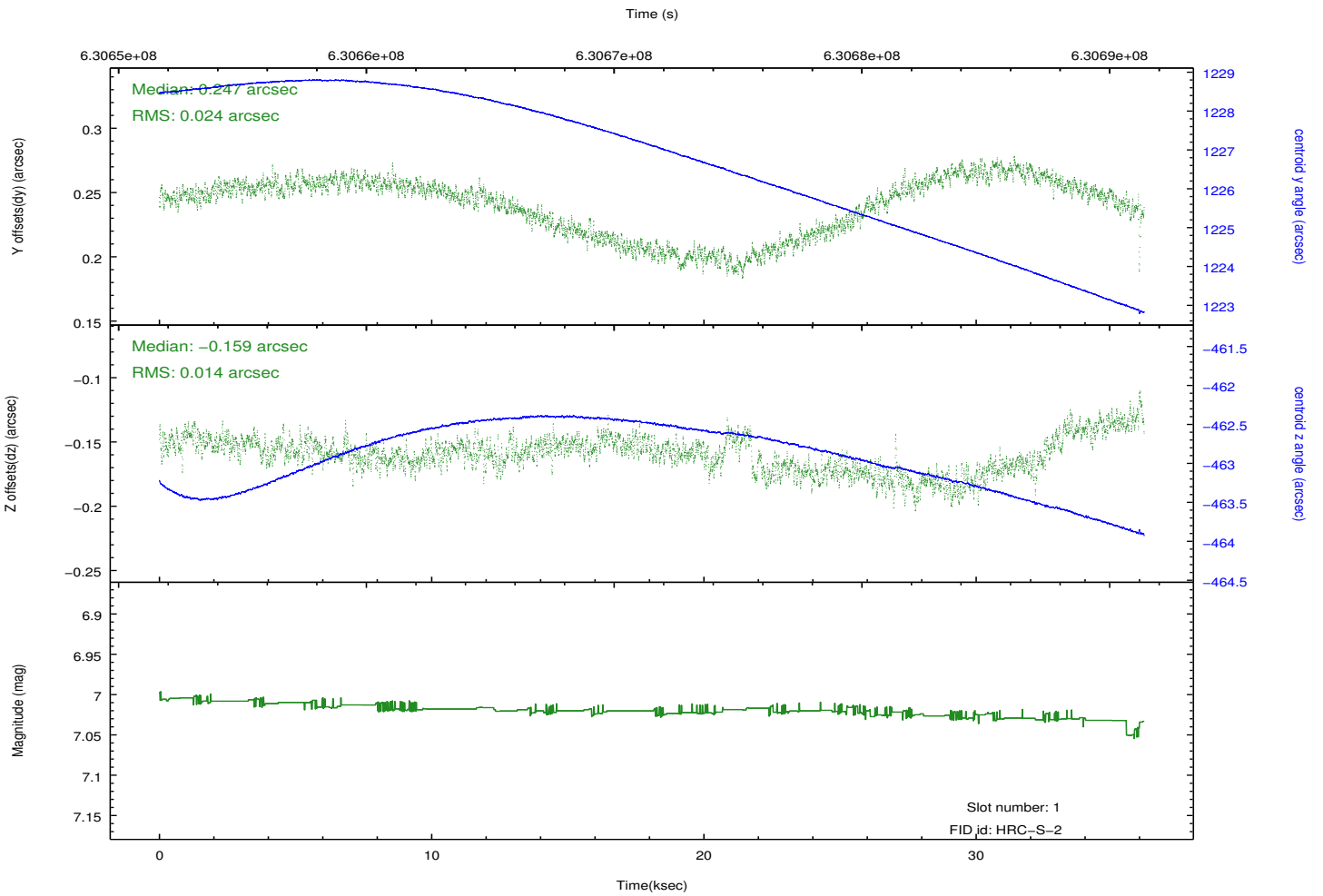
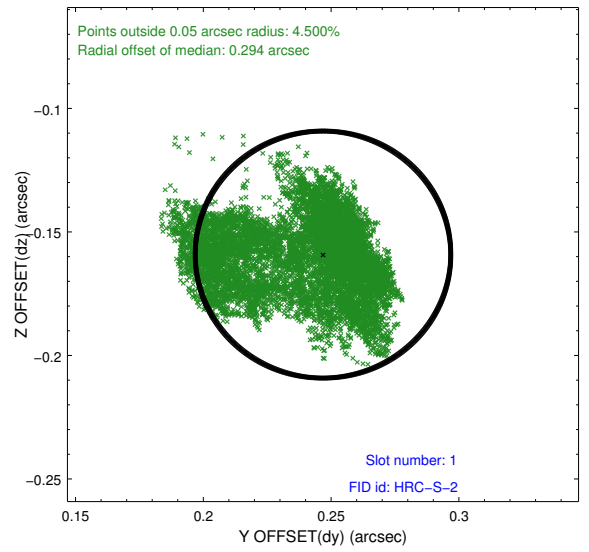
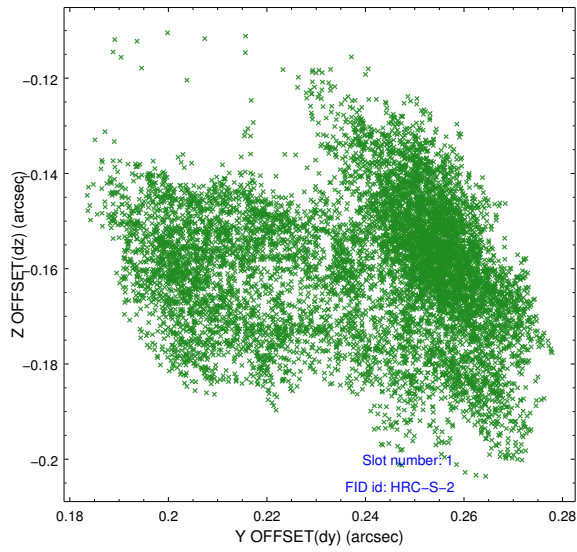


2.5 FID Slots

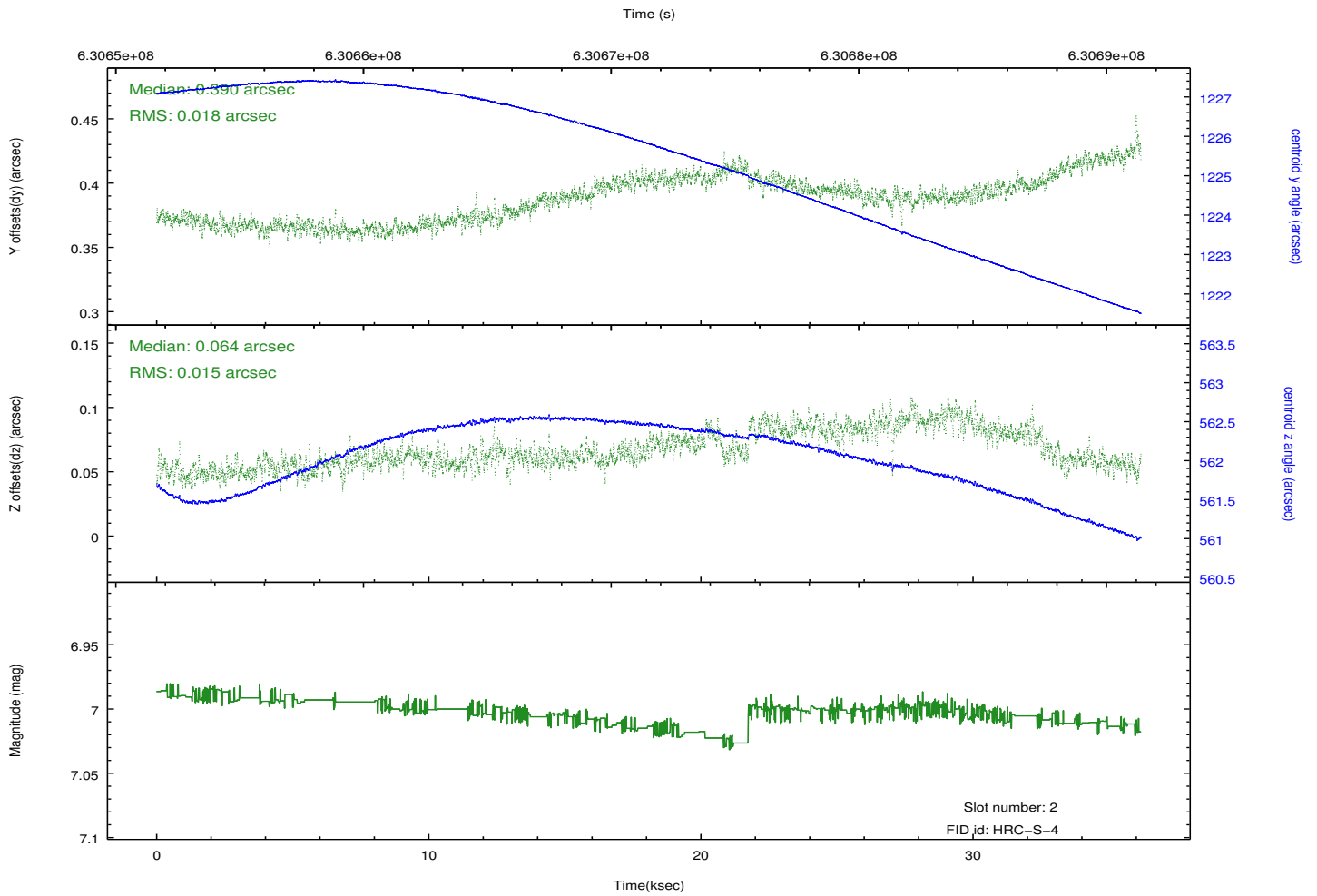
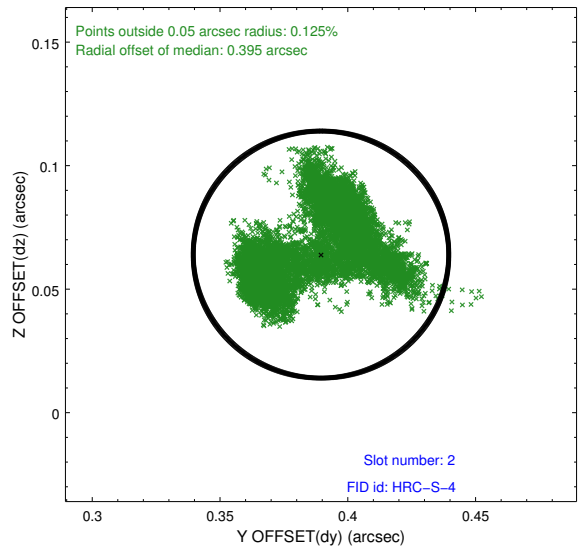
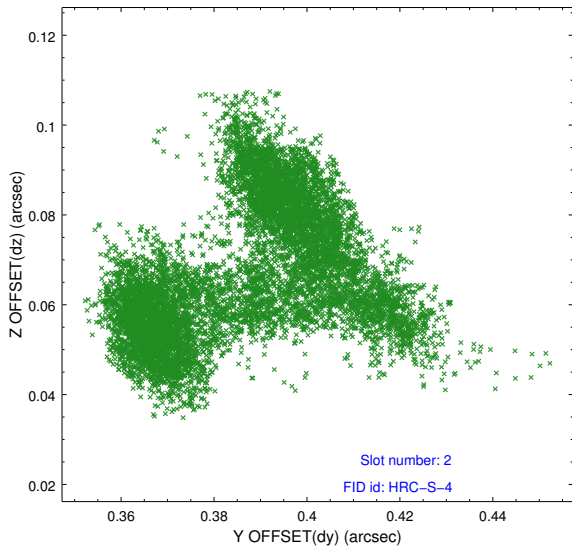
2.5.1 Slot 0



2.5.2 Slot 1

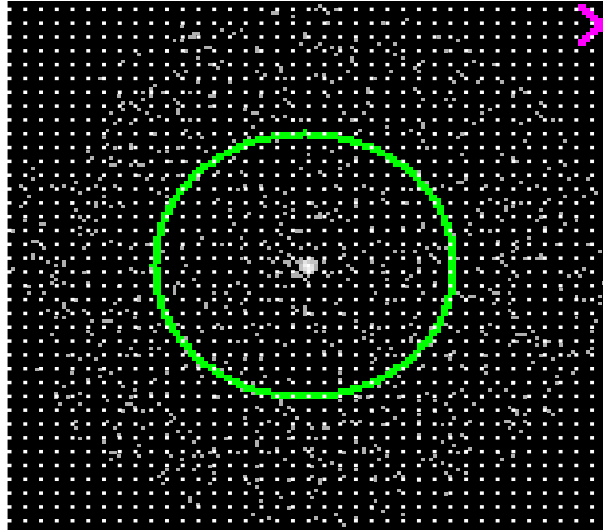


2.5.3 Slot 2

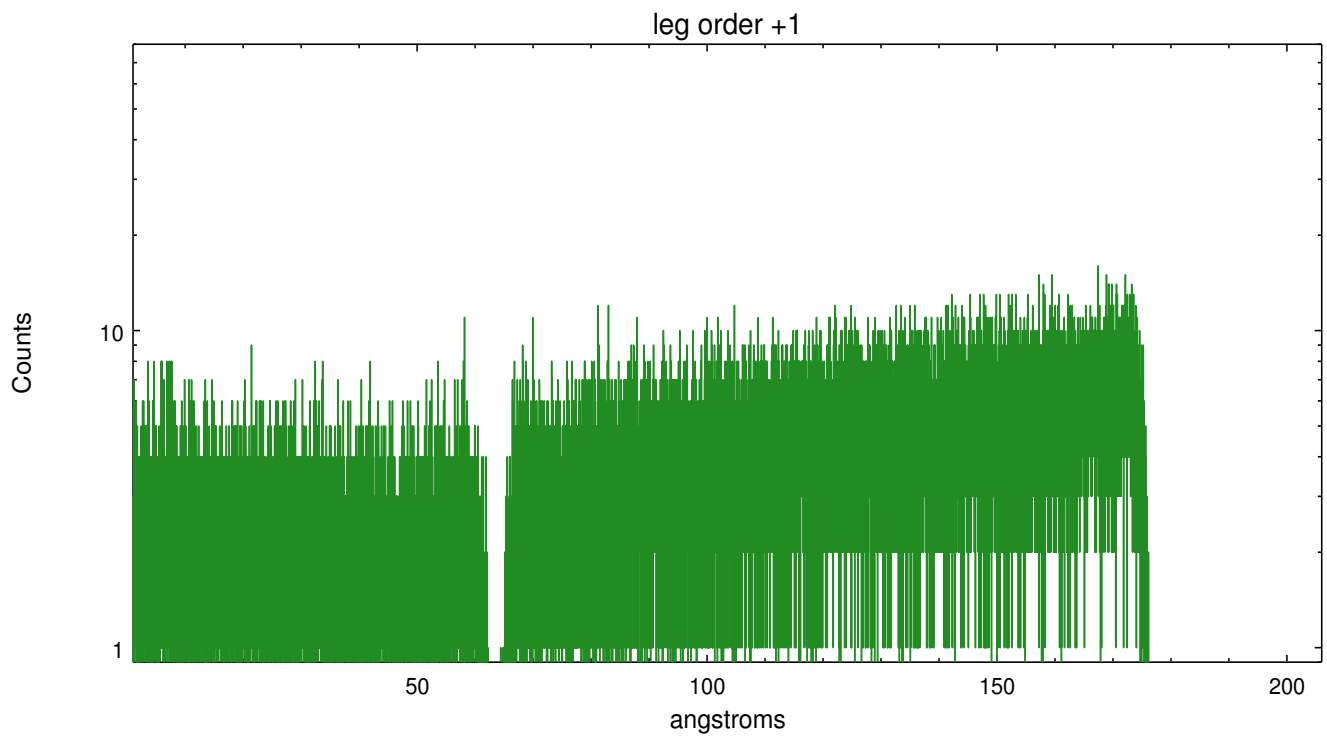
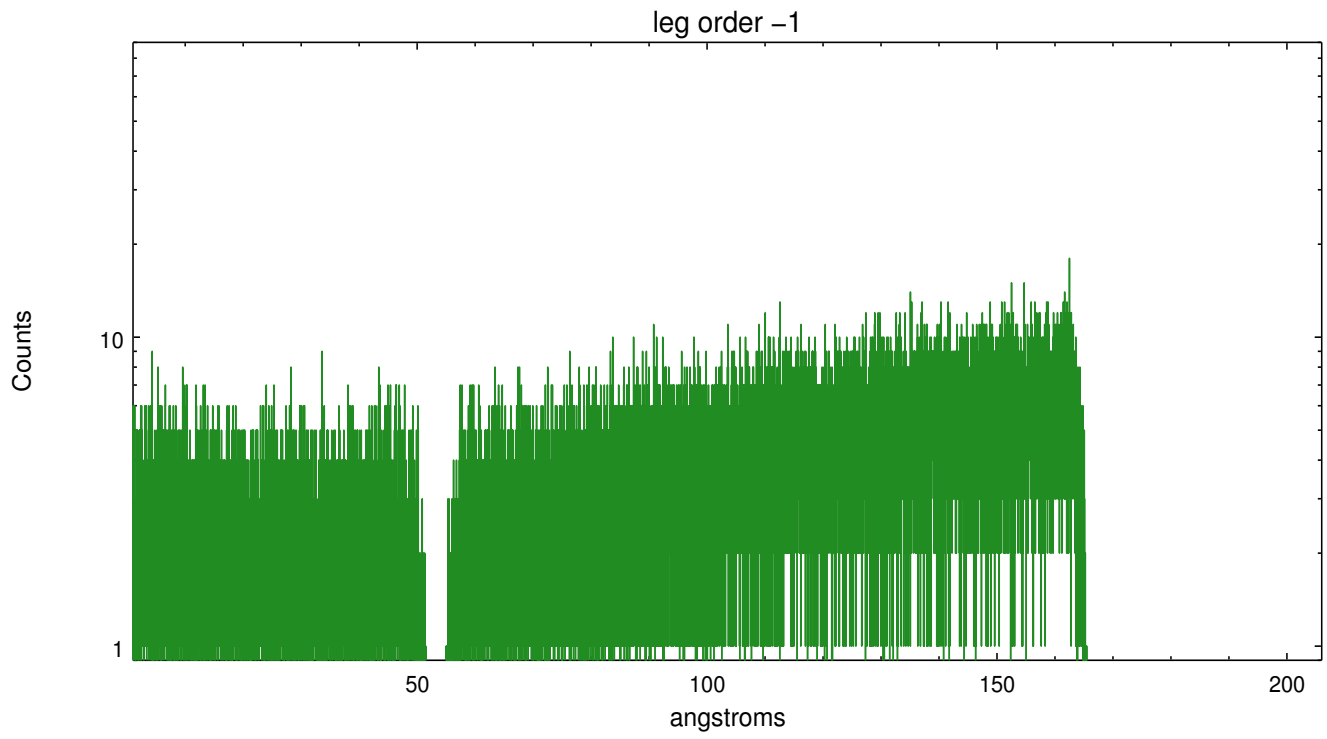


3 Gratings

3.1 LETG Arm



LETG Zero Order



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2017.12.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	36.173277126193

A.2 Comments