

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 20006 - L2 Version 1
Chandra X-Ray Center

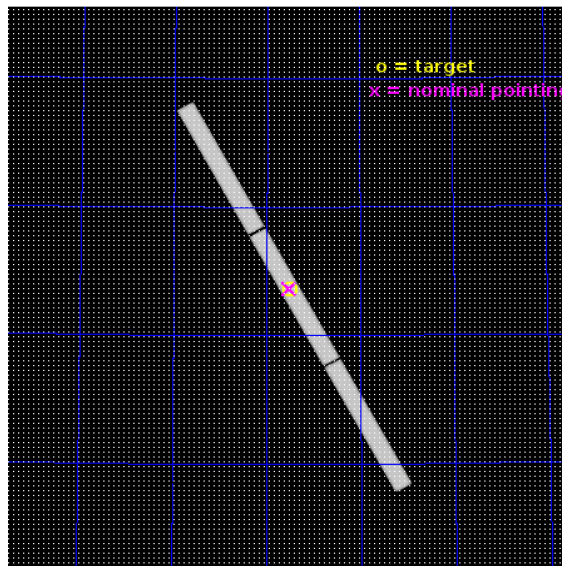
L2 Processing Date : Feb 11 2017

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1 Front

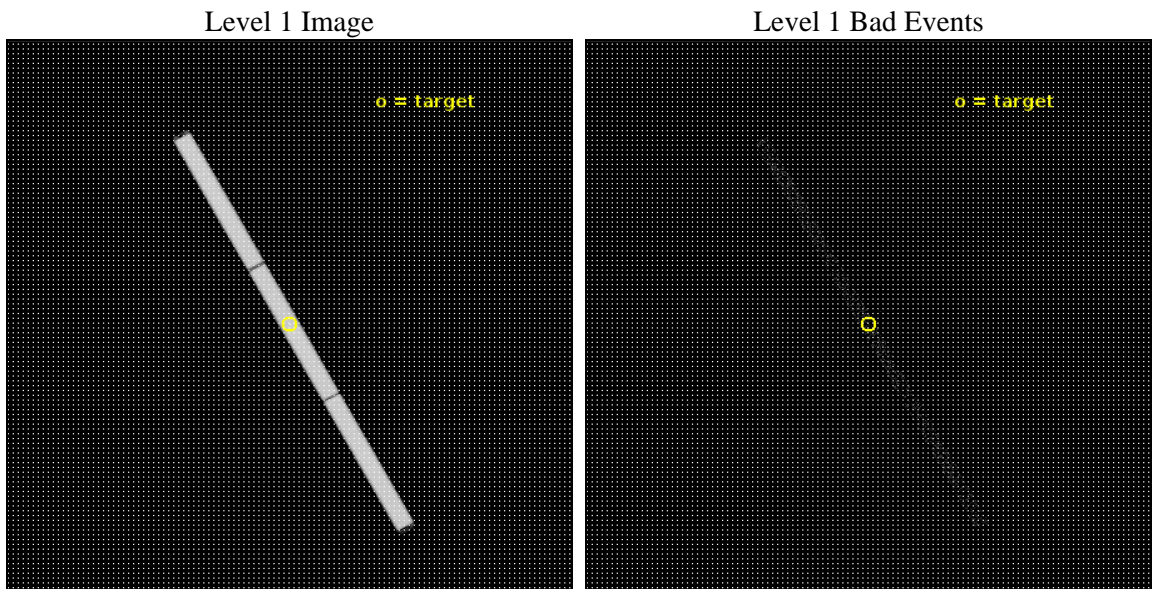
seq_num	703217	Sequence number
obs_id	20006	Observation id
title	The NLSy1 IRAS17020+4544: dissecting the first low ionization sub-relativistic black hole wind with LETG and HST/COS	Proposal title
observer	Dr Anna Lia Longinotti	Principal investigator
object	IRAS 17020+4544	Source name
ra_targ	255.876667	Observer's specified target RA [deg]
dec_targ	45.679722	Observer's specified target Dec [deg]
ra_nom	255.87811865403	Nominal RA [deg]
dec_nom	45.681690927914	Nominal Dec [deg]
roll_nom	61.066303897156	Nominal Roll [deg]
revision	1	Processing version of data
ontime	27159.426572323	[s]
liveltime	26903.536242724	Ontime multiplied by DTCOR
l2events	2305591	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	27000.000000	[s] Scheduled observation exposure time
ascdsver	10.5.2	Processing system revision	ontime	27159.426572323	[s]
caldbver	4.7.3	 	l1events	2953911	Number of level 1 events
date	2017-02-11T06:36:42	Date and time of file creation	tgmethod	TGDETECT	Method used to create src1a file
revision	1	Processing version of data	zo_pos	(32797.01, 32712.60)	src1a sky pixel position

2.1.3 Events

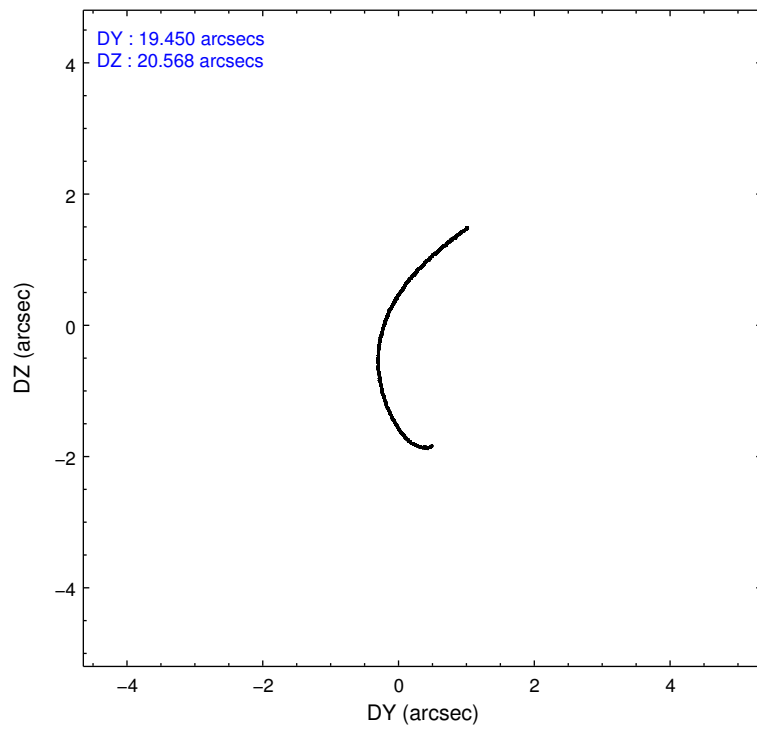
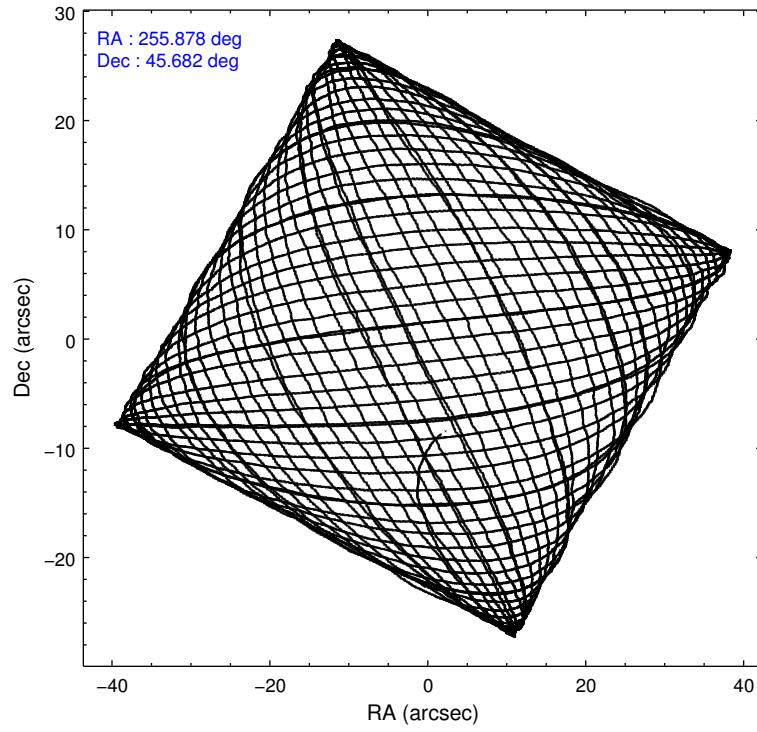
Level 1 Events

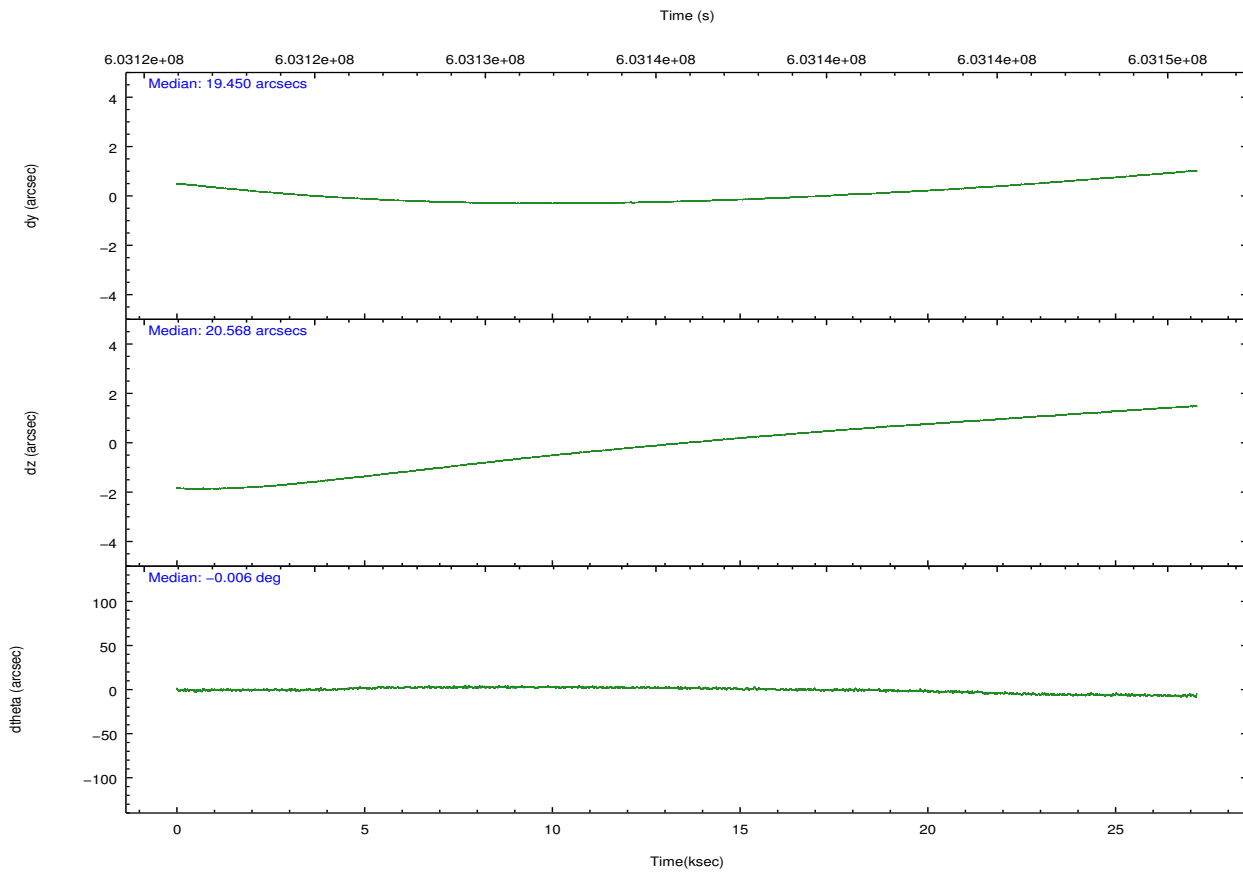
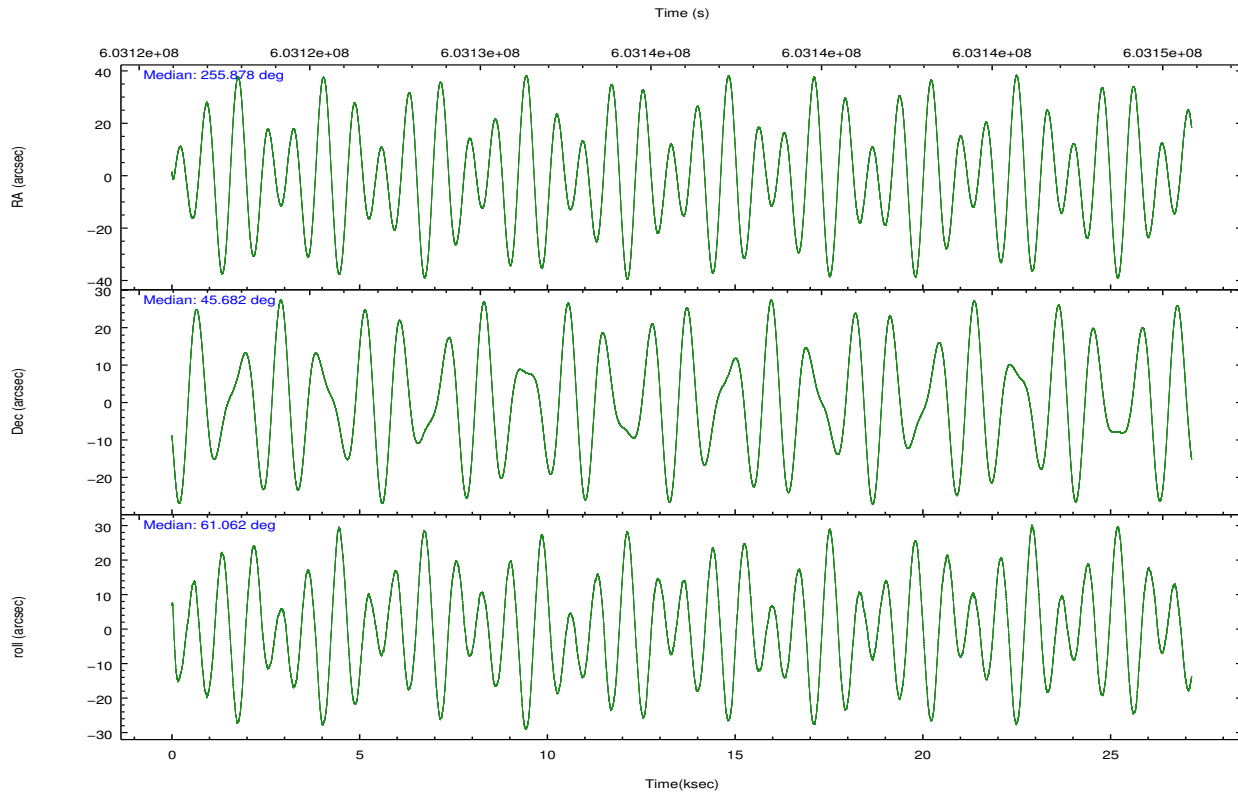
	segment 1	segment 2	segment 3
level 1 events	986696	986037	981178
rejected events	37534	36524	37137
rejected %	3%	3%	3%

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	255.880838	255.8781186540294			
[deg] Pointing Dec	45.652903	45.68169092791367			
[deg] Pointing Roll	60.997019	61.06630389715556			
[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)	603122475.184000	603121368.80384			
Observation start date	2017-02-10T14:00:06	2017-02-10T13:42:48			
[s] Observation end time (MET)	603149475.184000	603150533.13053			
Observation end date	2017-02-10T21:30:06	2017-02-10T21:48:53			

2.3 Aspect



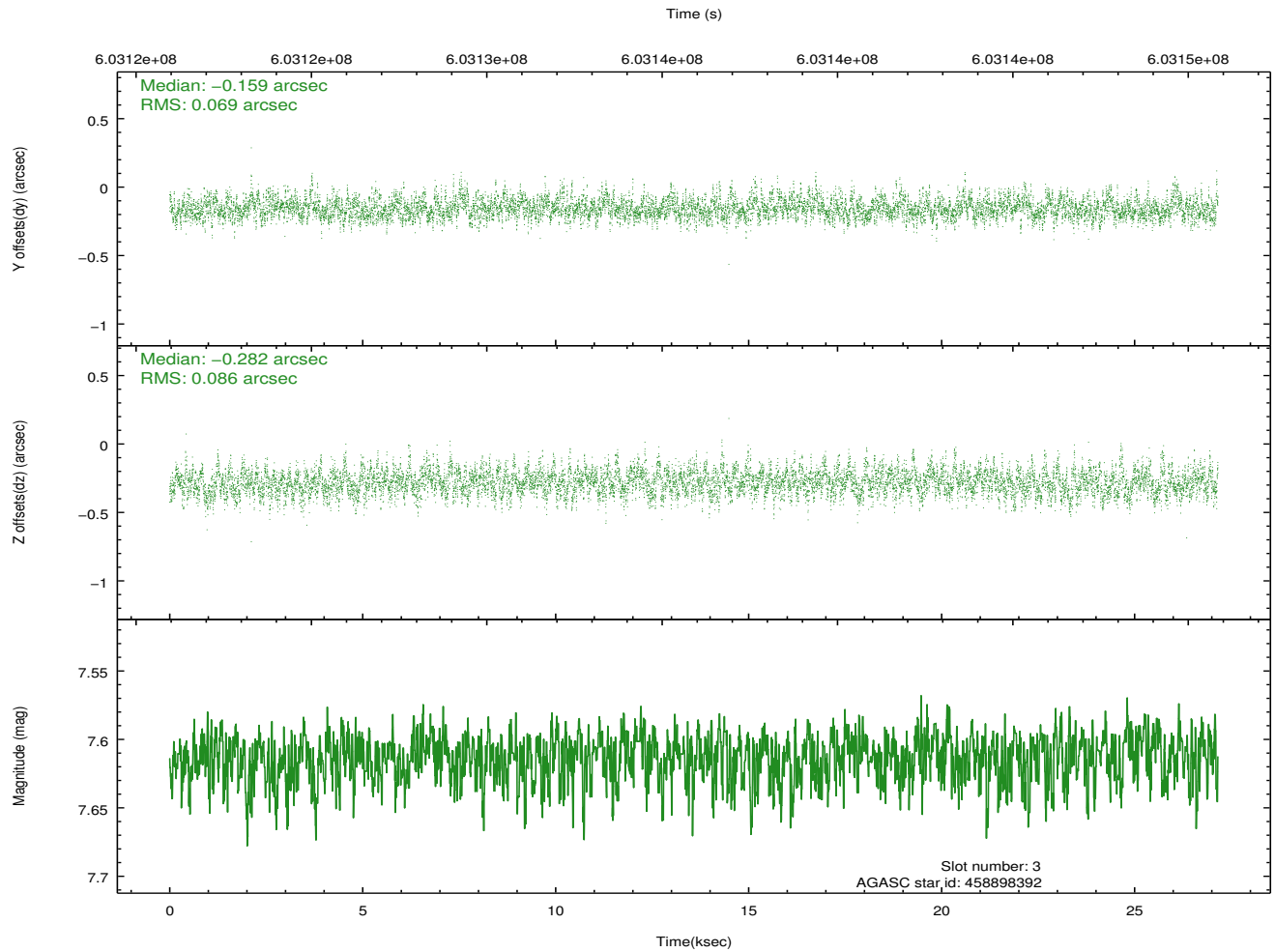
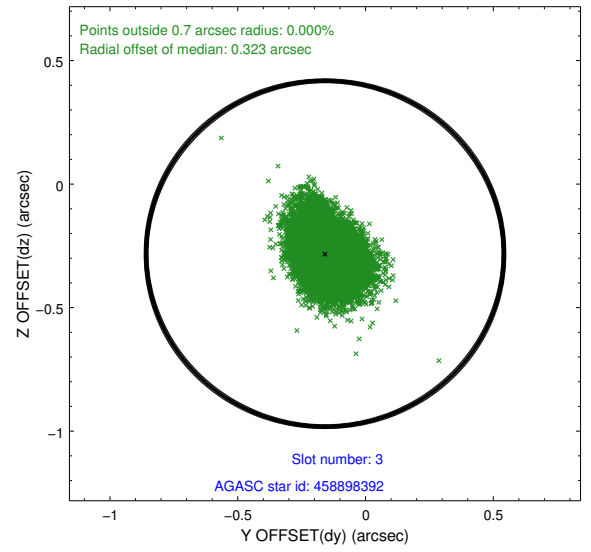
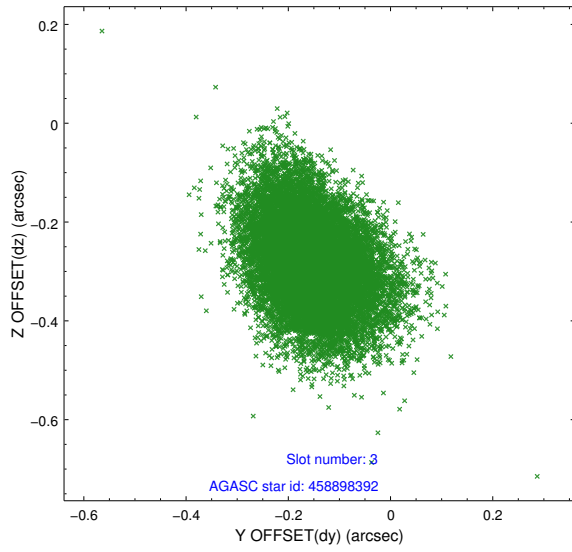


Slot Statistics

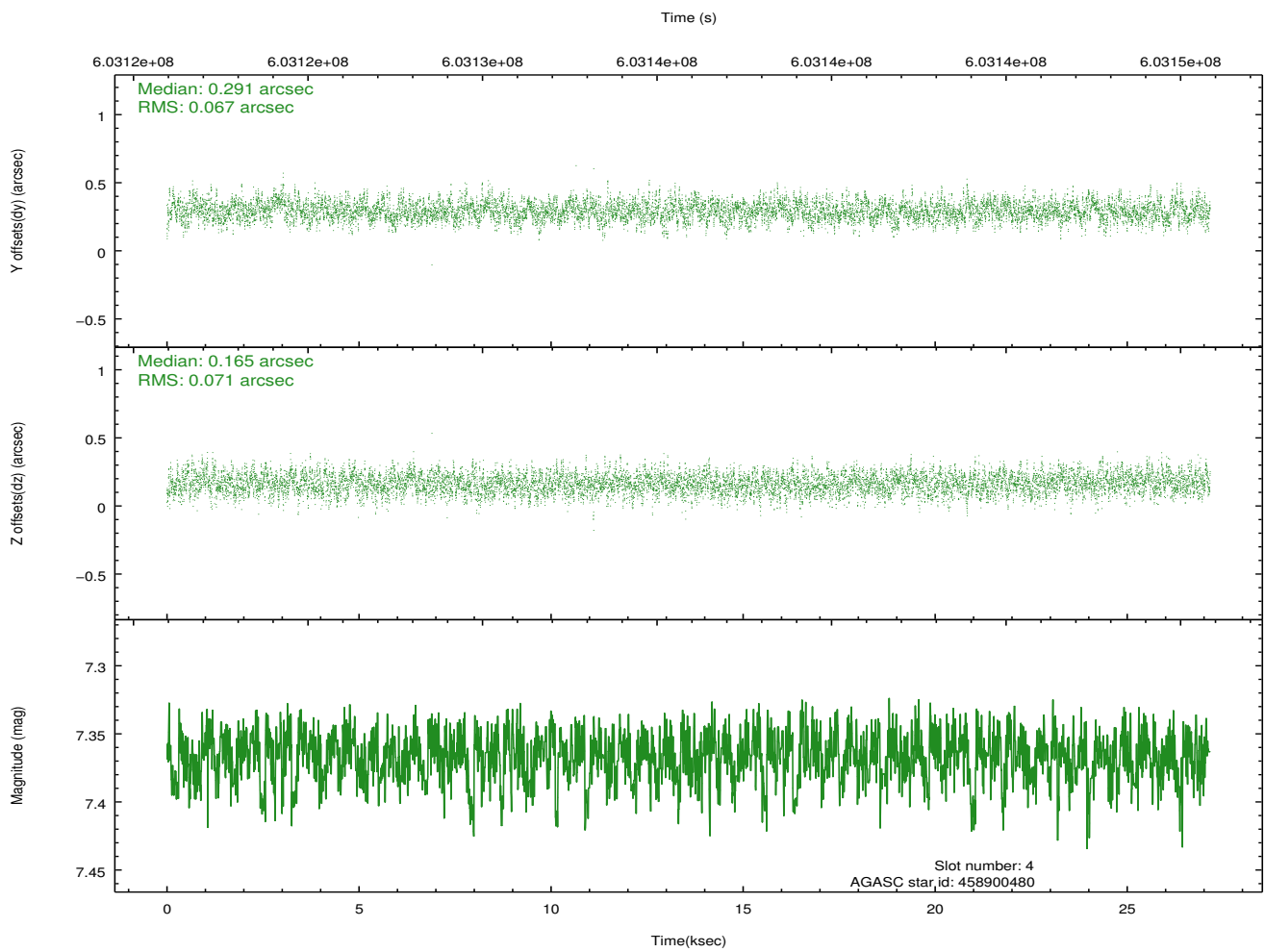
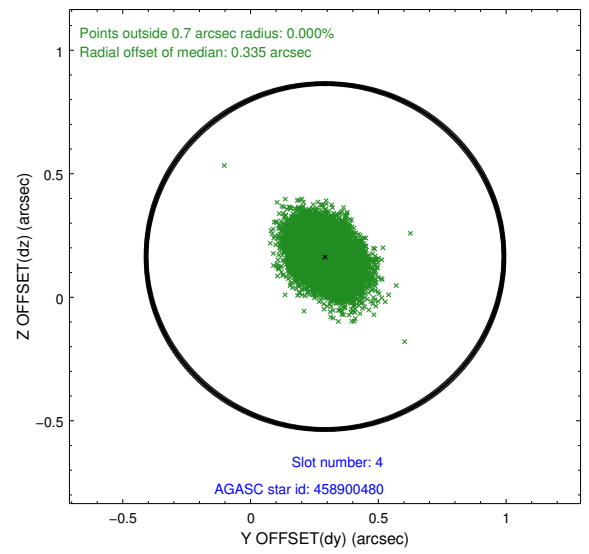
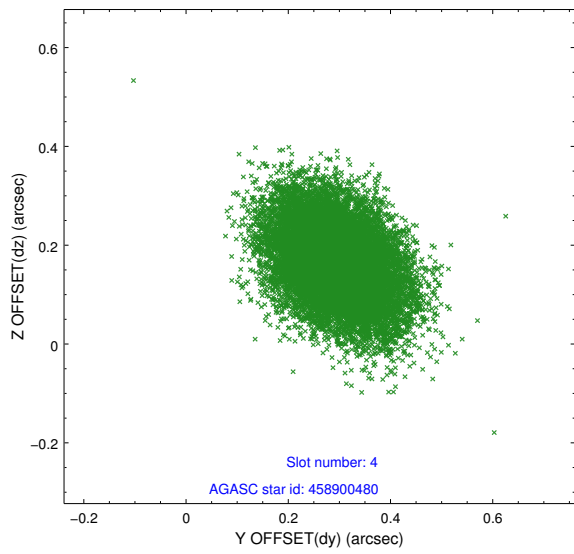
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		HRC-S-1	7.03	6624	-0.061	-0.244	0.040	0.091	0.000000	0.000000	-1174.18	-469.60
1	FID		HRC-S-2	6.98	6625	0.350	-0.114	0.013	0.041	0.000000	0.000000	1225.74	-462.07
2	FID		HRC-S-3	7.01	6624	0.098	0.054	0.039	0.082	0.000000	0.000000	-1176.61	560.13
3	GUIDE	used	458898392	7.61	13247	-0.159	-0.282	0.116	0.193	255.120167	45.778808	-521.74	1896.99
4	GUIDE	used	458900480	7.37	13248	0.291	0.165	0.103	0.171	255.979899	45.449218	-519.20	-573.99
5	GUIDE	used	458903928	7.98	13246	-0.116	-0.332	0.109	0.177	256.022074	46.089865	1543.92	452.53
6	GUIDE	used	458904480	8.95	13237	0.363	0.443	0.137	0.225	256.212390	45.224287	-939.00	-1481.57
7	GUIDE	used	458896984	8.99	13234	-0.386	0.006	0.134	0.219	256.338646	45.952153	1500.60	-478.23

2.4 Star Slots

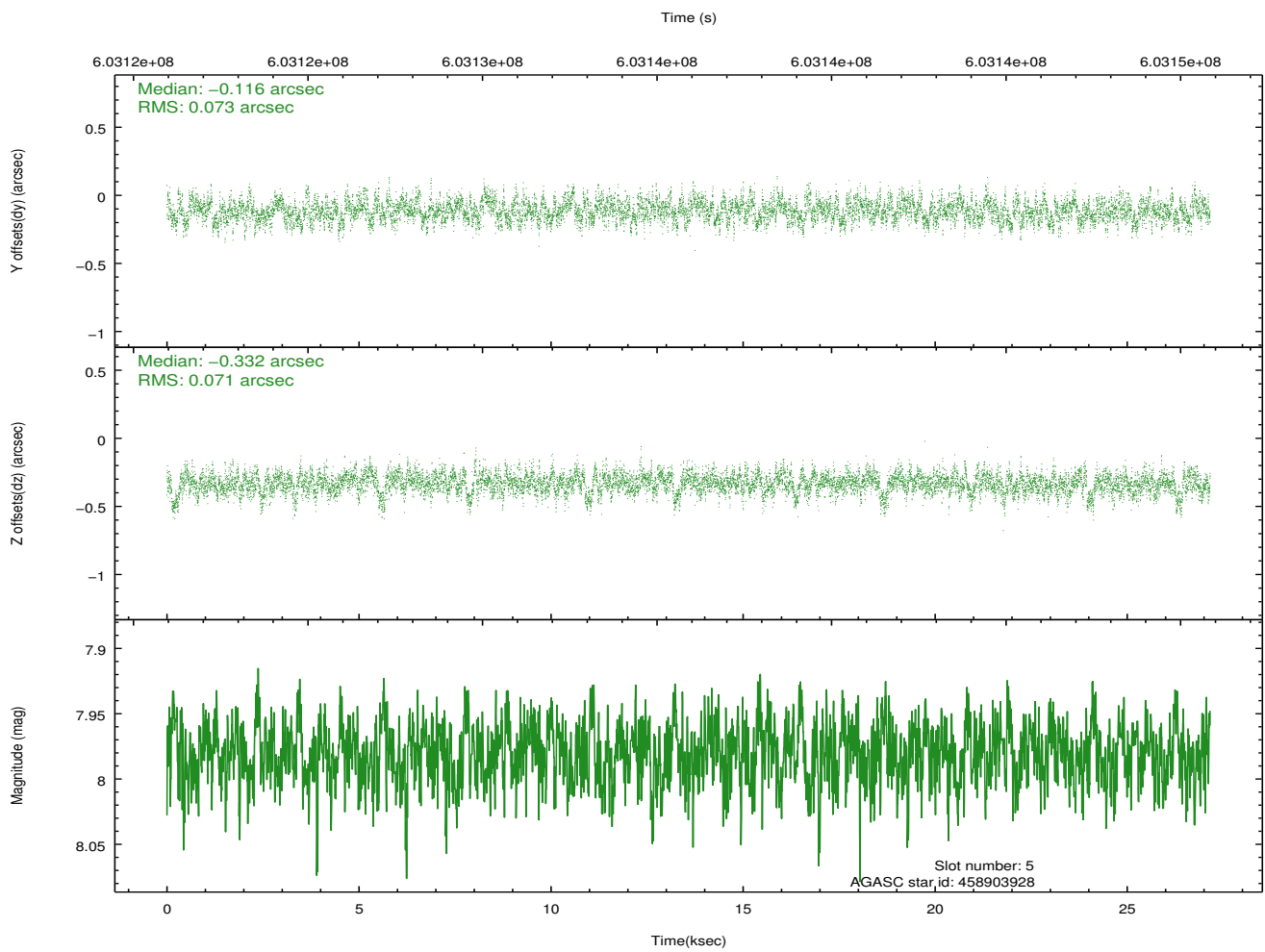
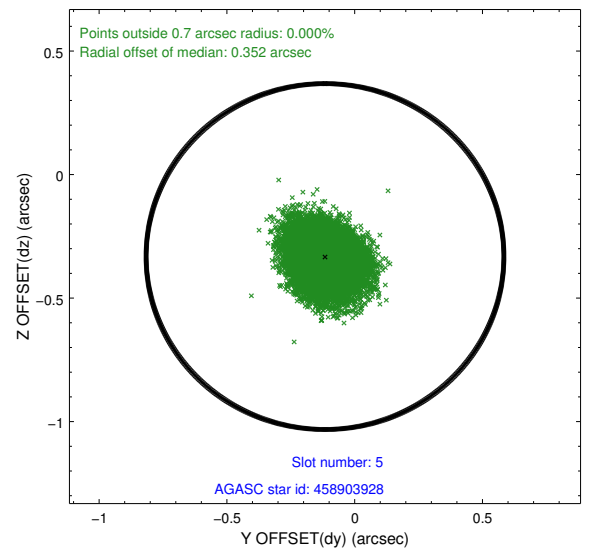
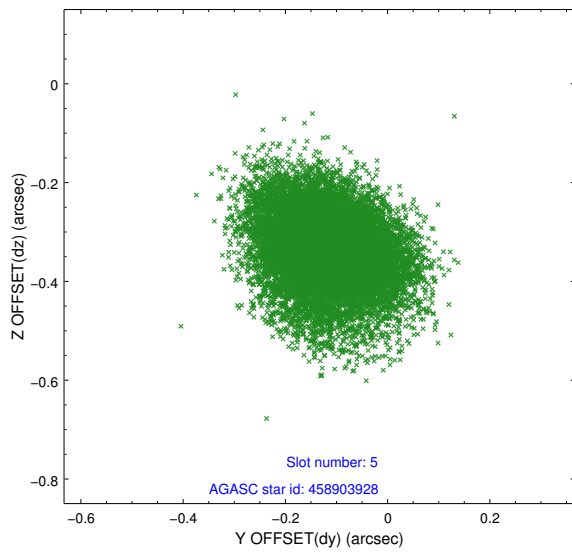
2.4.1 Slot 3



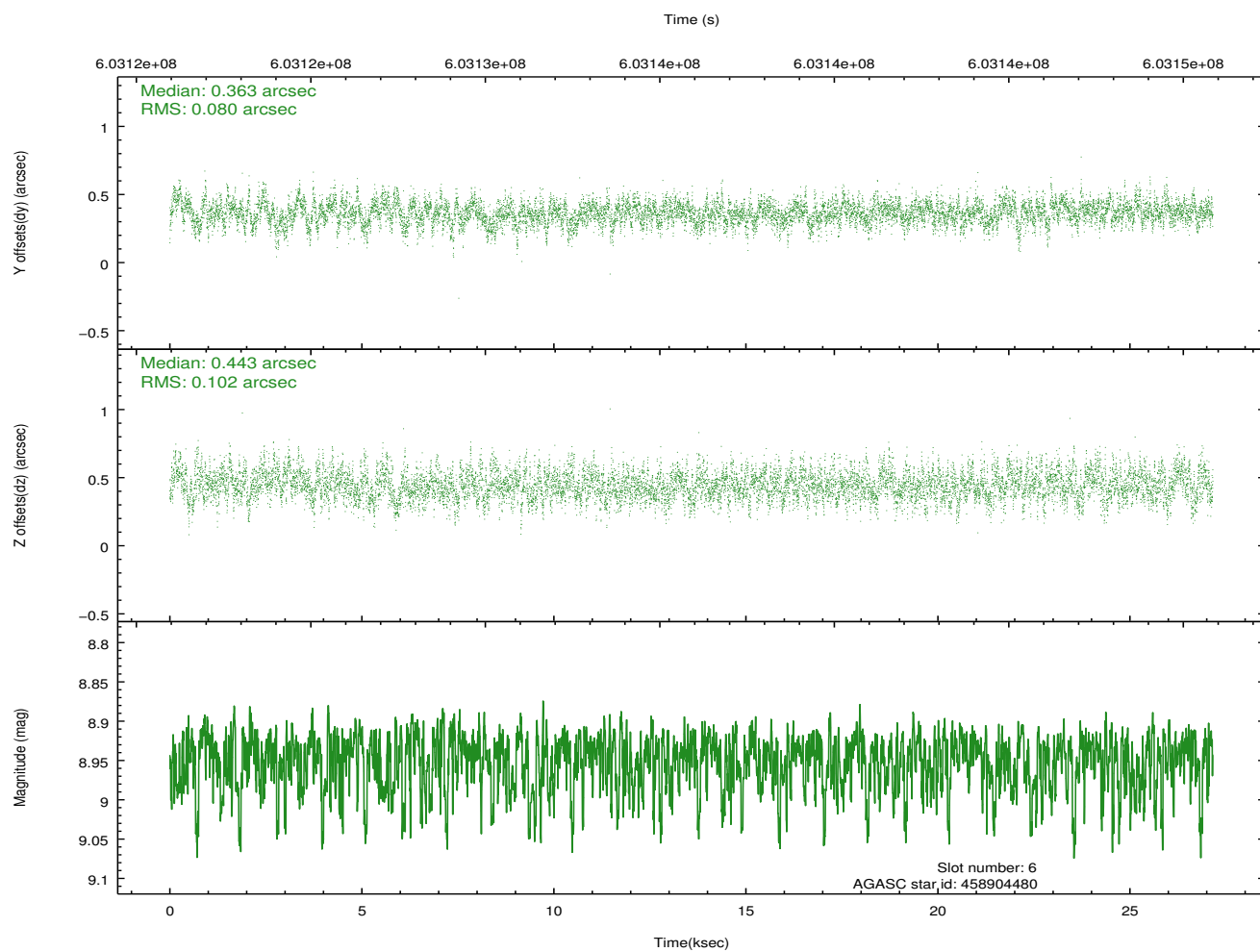
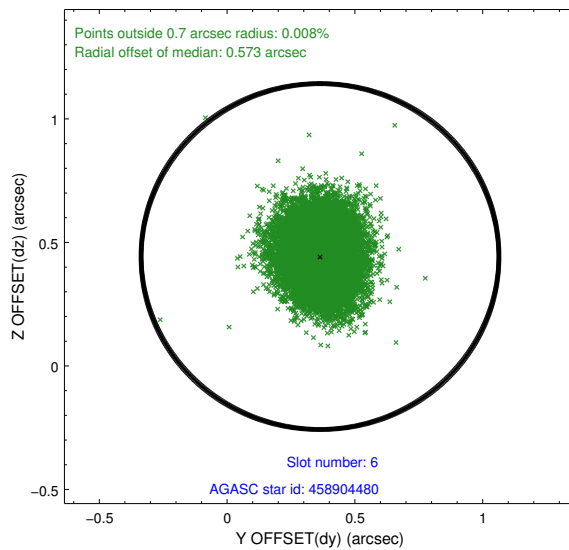
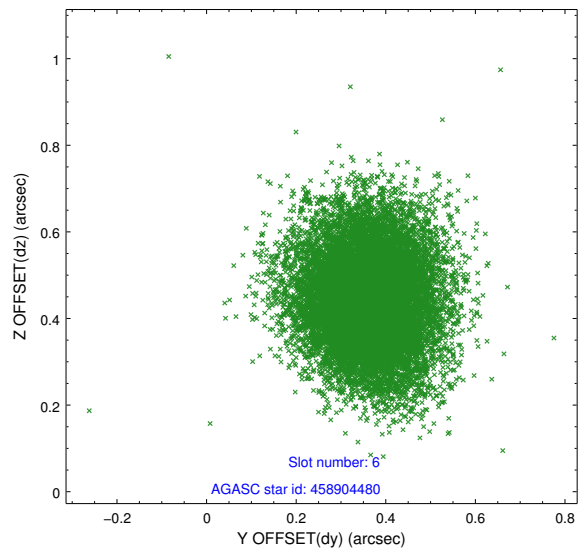
2.4.2 Slot 4



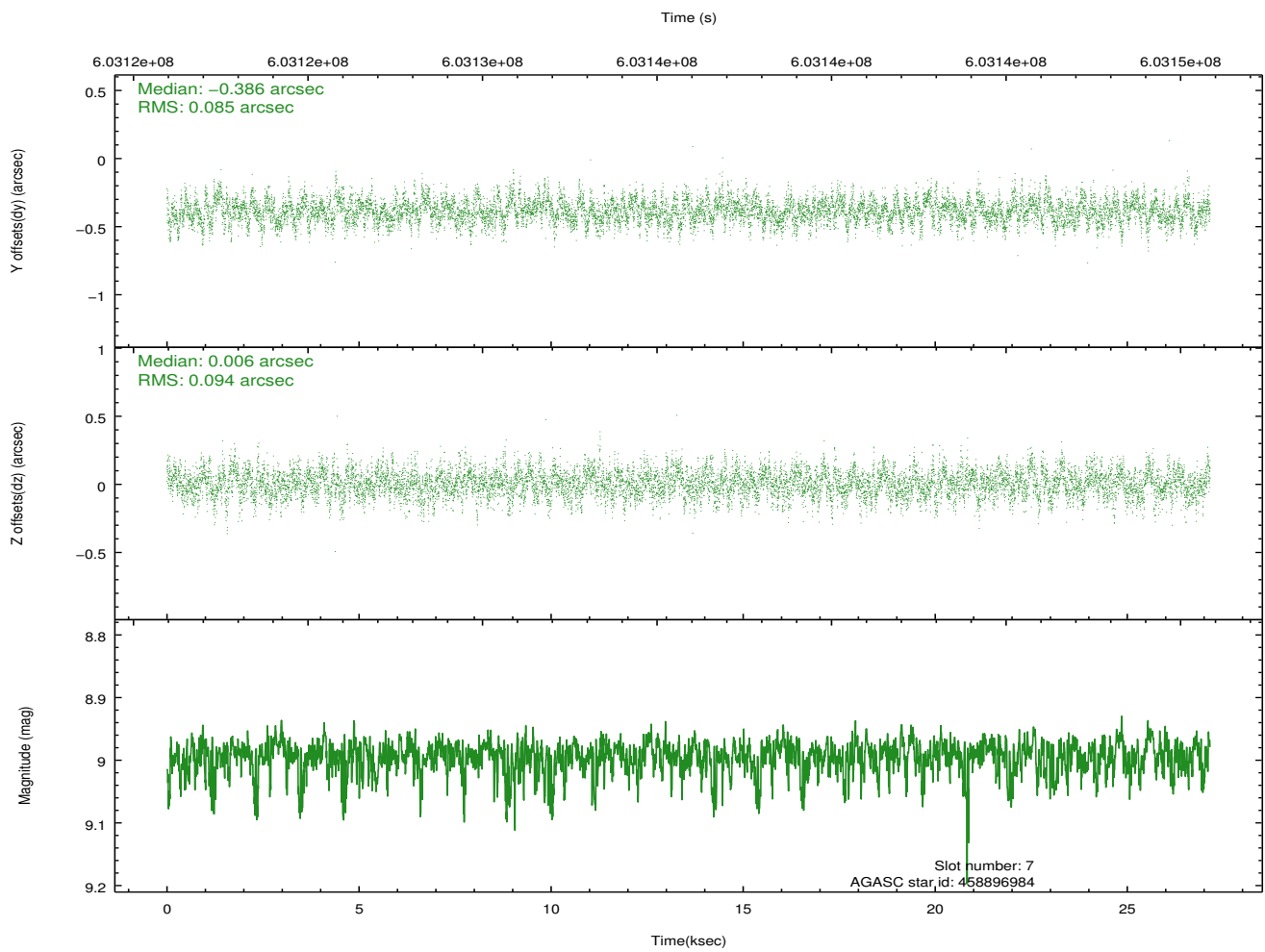
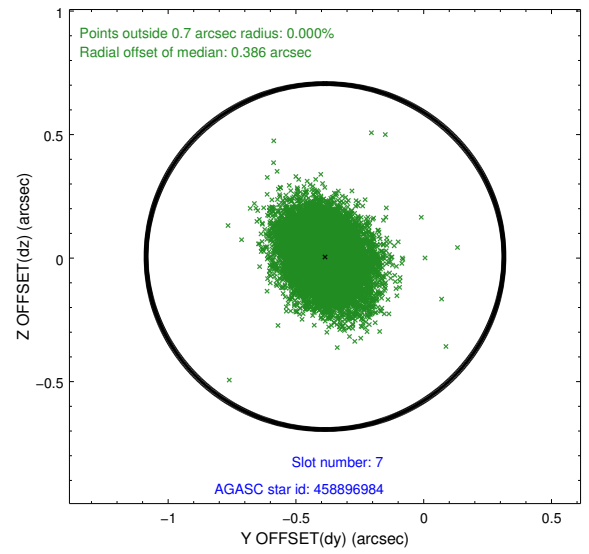
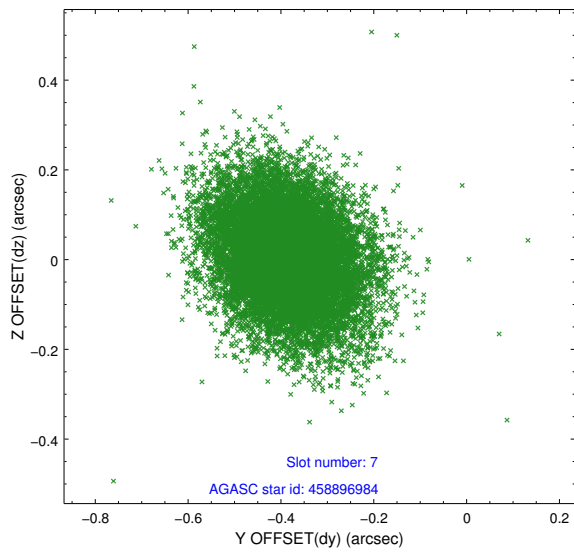
2.4.3 Slot 5



2.4.4 Slot 6

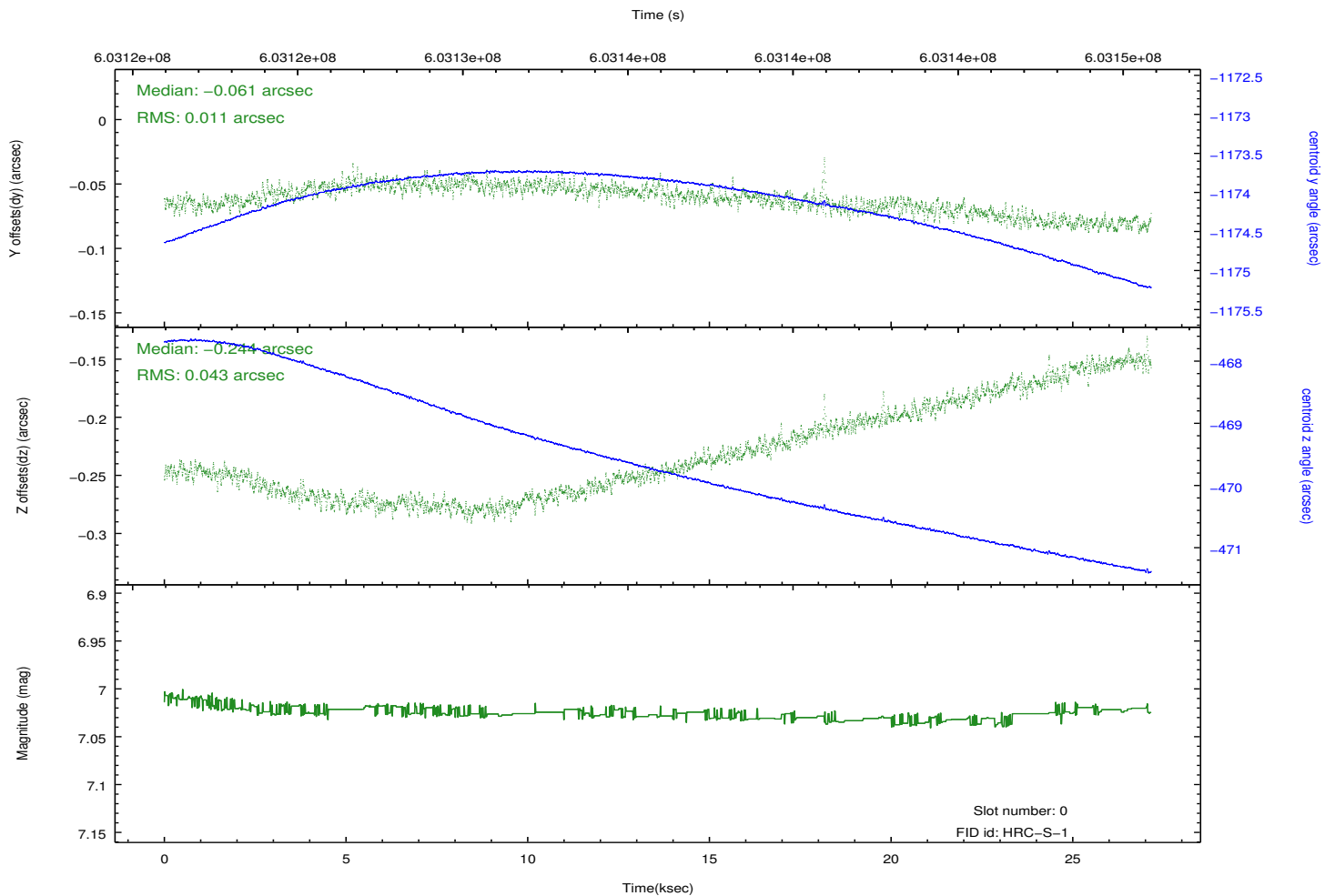
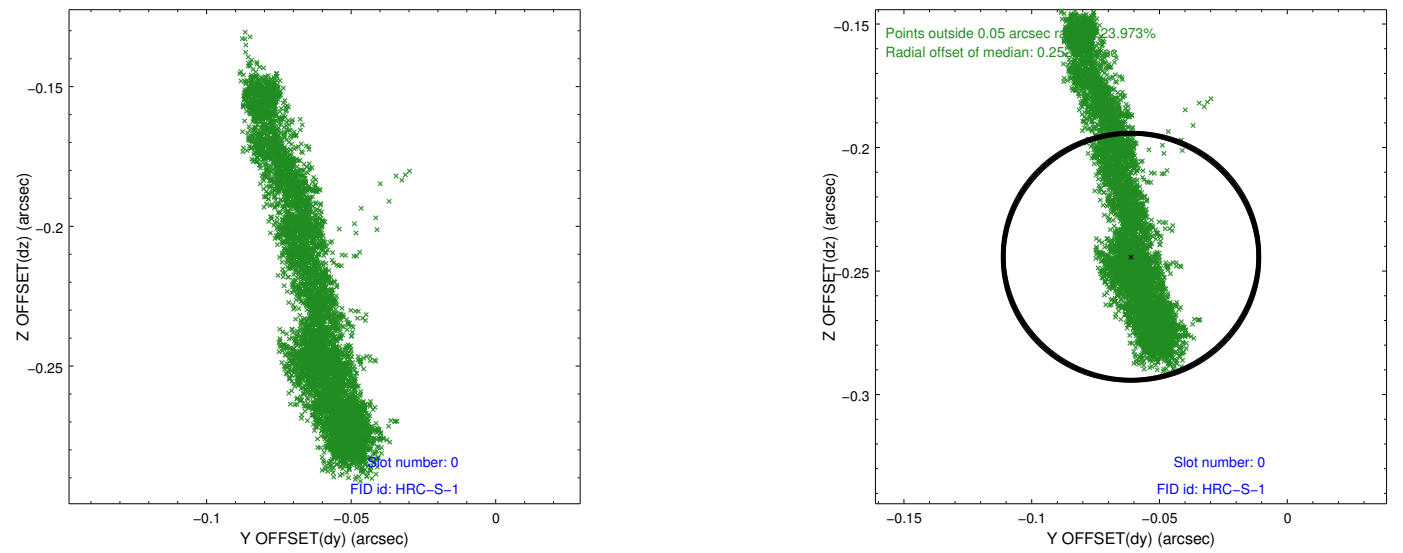


2.4.5 Slot 7

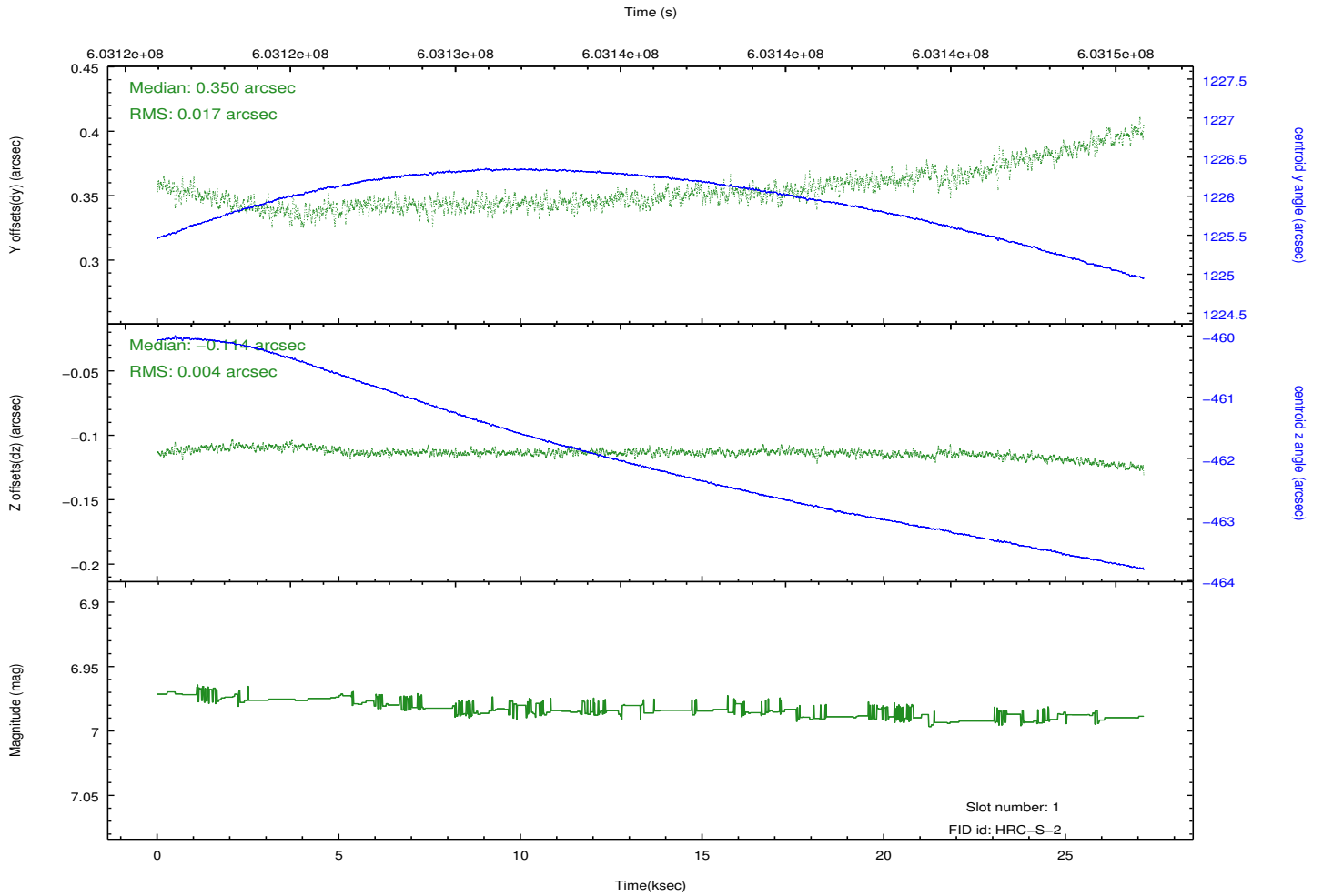
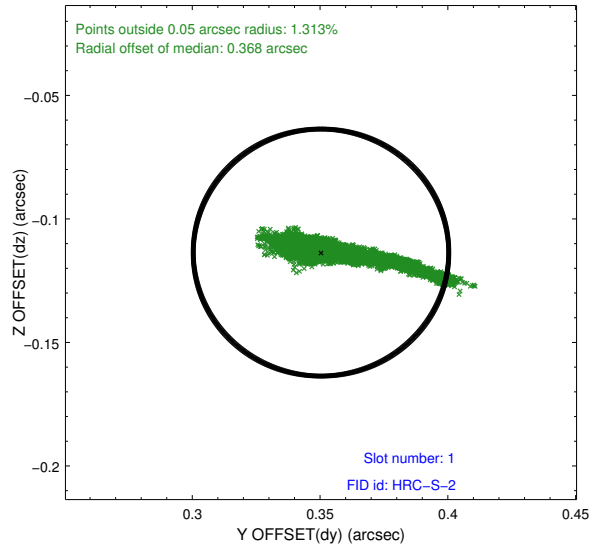
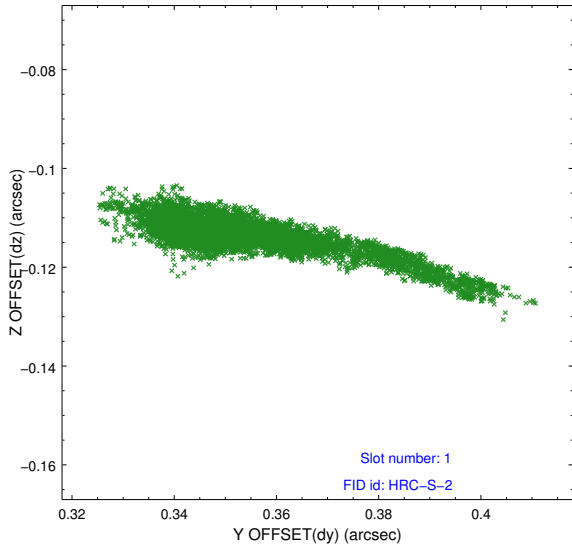


2.5 FID Slots

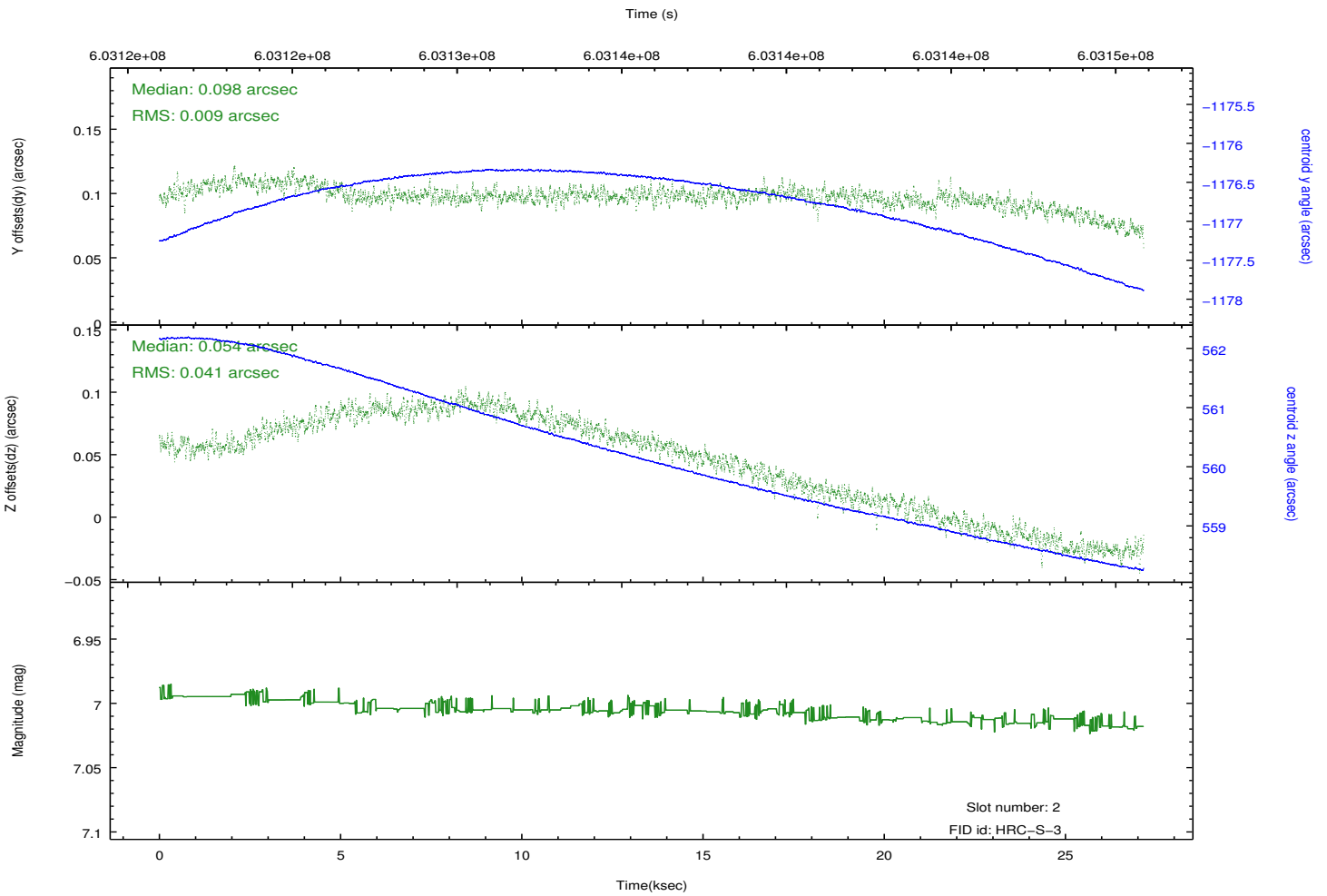
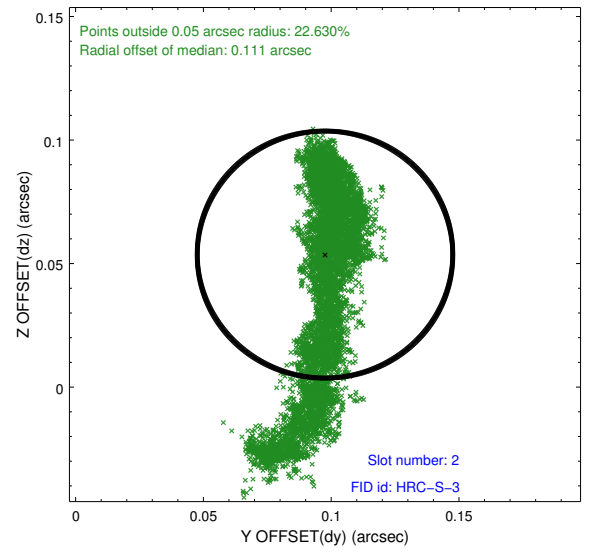
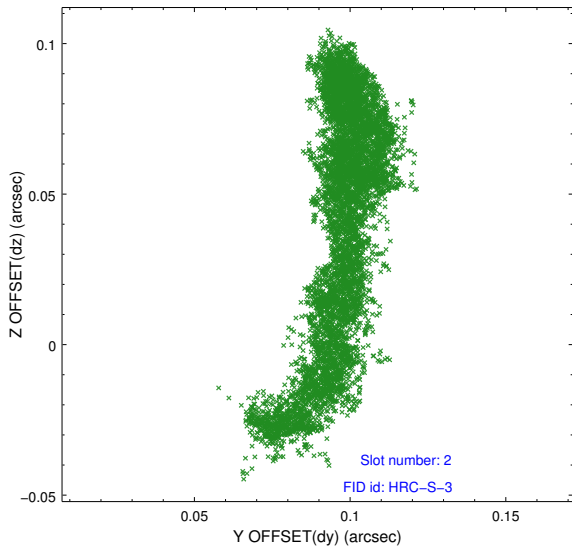
2.5.1 Slot 0



2.5.2 Slot 1

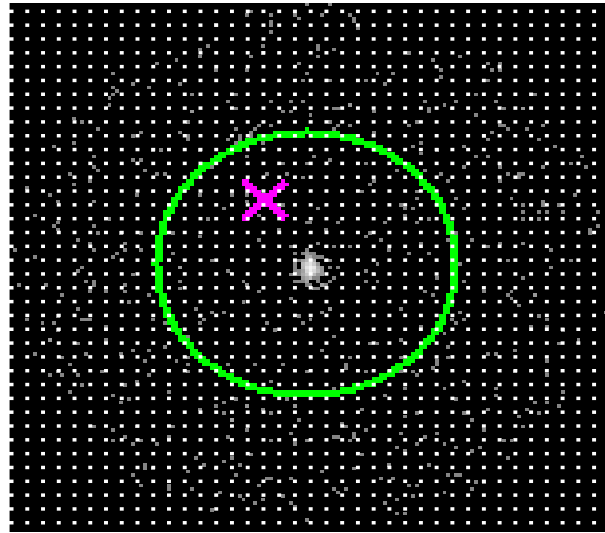


2.5.3 Slot 2

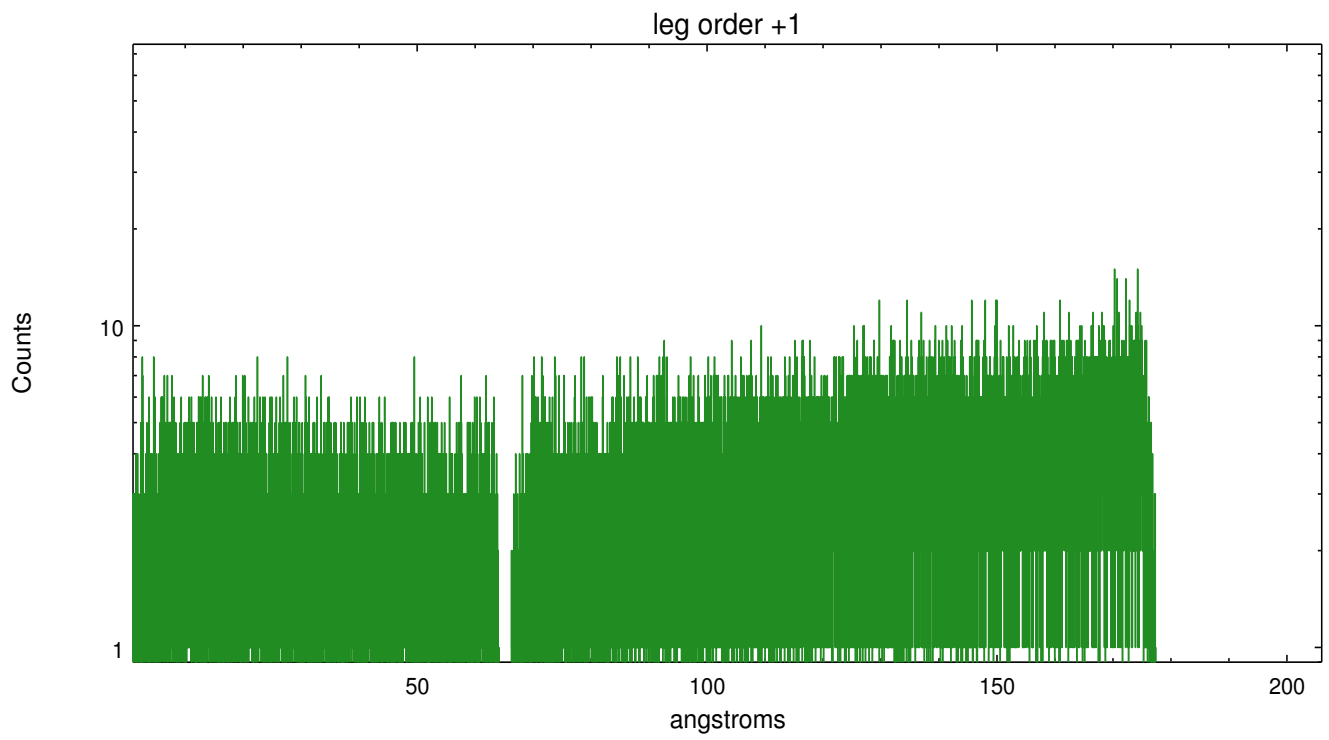
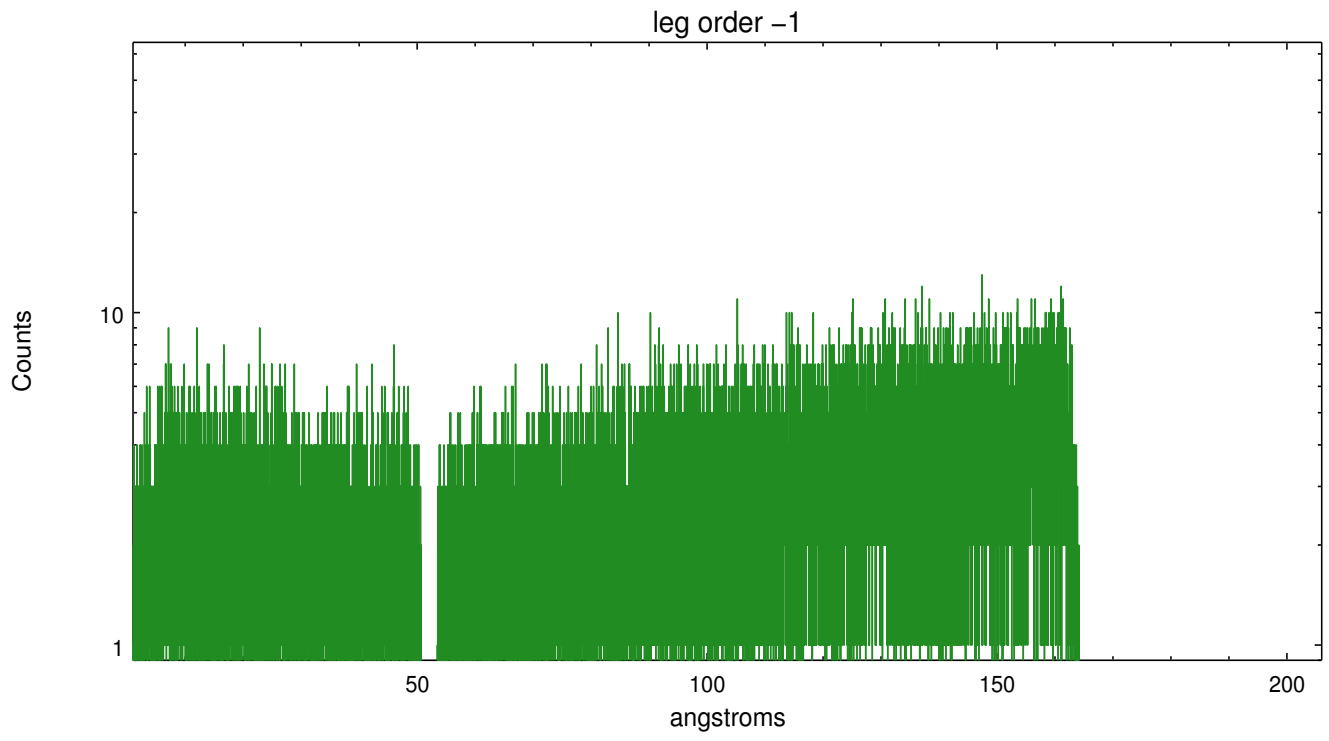


3 Gratings

3.1 LETG Arm



LETG Zero Order



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2017.02.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	27.159426572323

A.2 Comments

Extended source. WARNING: Zeroth order selected by pipeline tools is well-centered in the emission region but is not at the position(s) of brightest emission. The user may want to select a region or source of interest, then use software tools such as CIAO to specify the coordinates of the zeroth order source of interest before running the tools to resolve the dispersed events.