

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 20905 - L2 Version 1
Chandra X-Ray Center

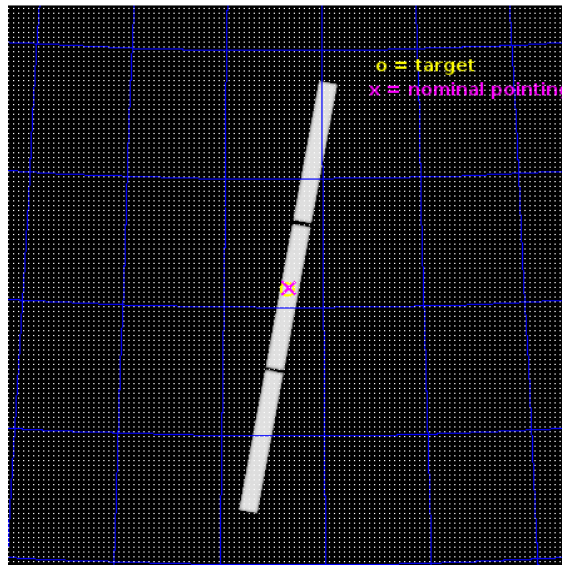
L2 Processing Date : Dec 30 2017

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1 Front

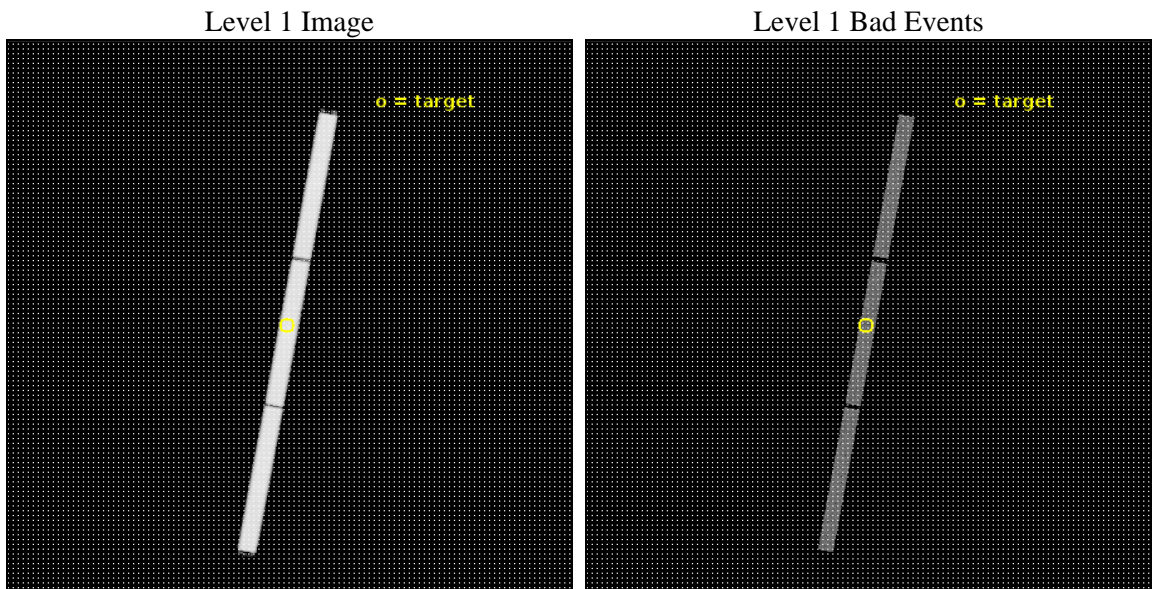
seq_num	703368	Sequence number
obs_id	20905	Observation id
title	The origin of variability in NGC 3516: obscuring disk wind?	Propos
observer	Missagh Mehdipour	Principal investigator
object	NGC 3516	Source name
ra_targ	166.697917	Observer's specified target RA [deg]
dec_targ	72.568611	Observer's specified target Dec [deg]
ra_nom	166.67178945047	Nominal RA [deg]
dec_nom	72.576136796	Nominal Dec [deg]
roll_nom	100.09224979463	Nominal Roll [deg]
revision	1	Processing version of data
ontime	27771.35163331	[s]
livetime	27513.075276959	Ontime multiplied by DTCOR
l2events	2324106	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	27600.000000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	27771.35163331	[s]
caldsver	4.7.7	 	l1events	3020936	Number of level 1 events
date	2017-12-30T22:02:47	Date and time of file creation	tgmethod	TGDETECT	Method used to create src1a file
revision	1	Processing version of data	zo_pos	(32547.97, 32562.88)	src1a sky pixel position

2.1.3 Events

Level 1 Events

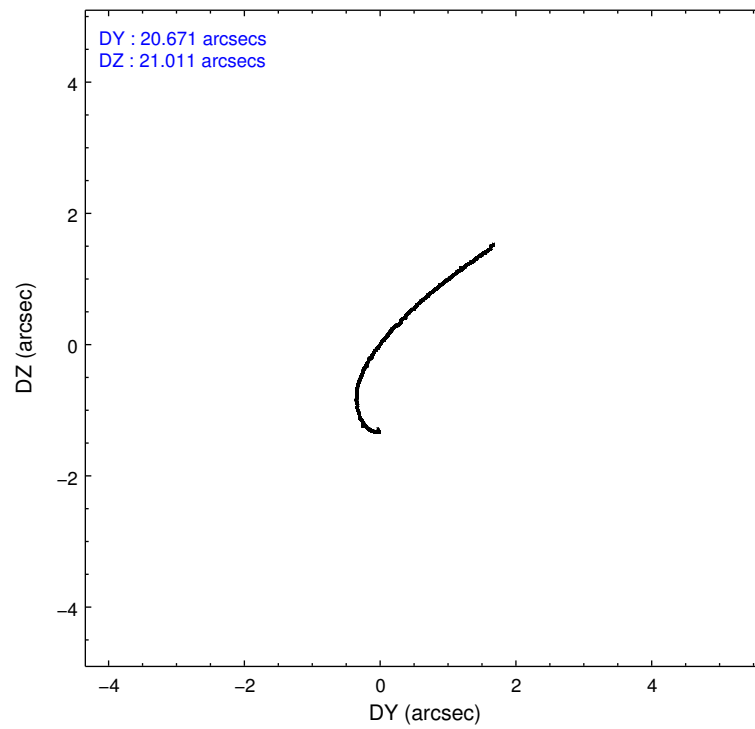
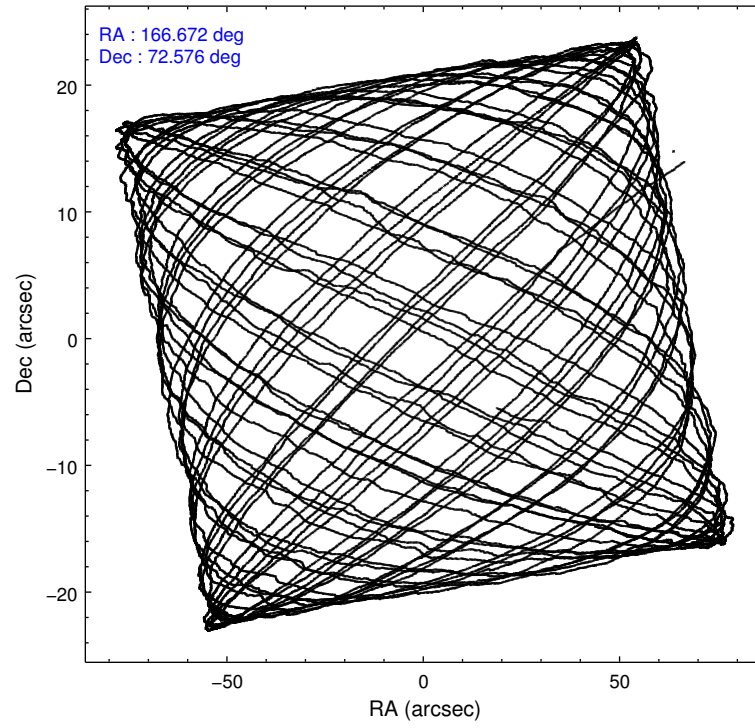
	segment 1	segment 2	segment 3
level 1 events	1008889	1006859	1005188
rejected events	49064	48329	48519
rejected %	4%	4%	4%

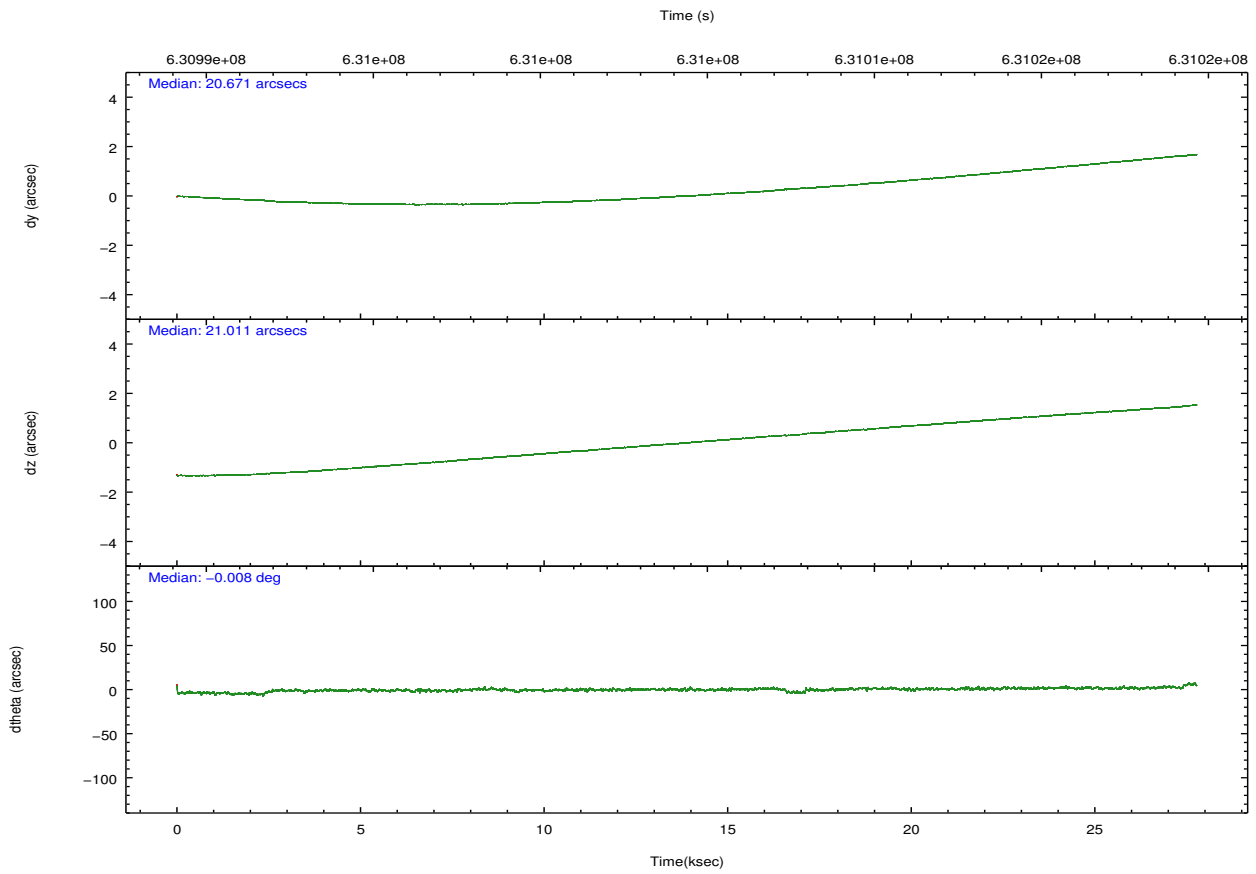
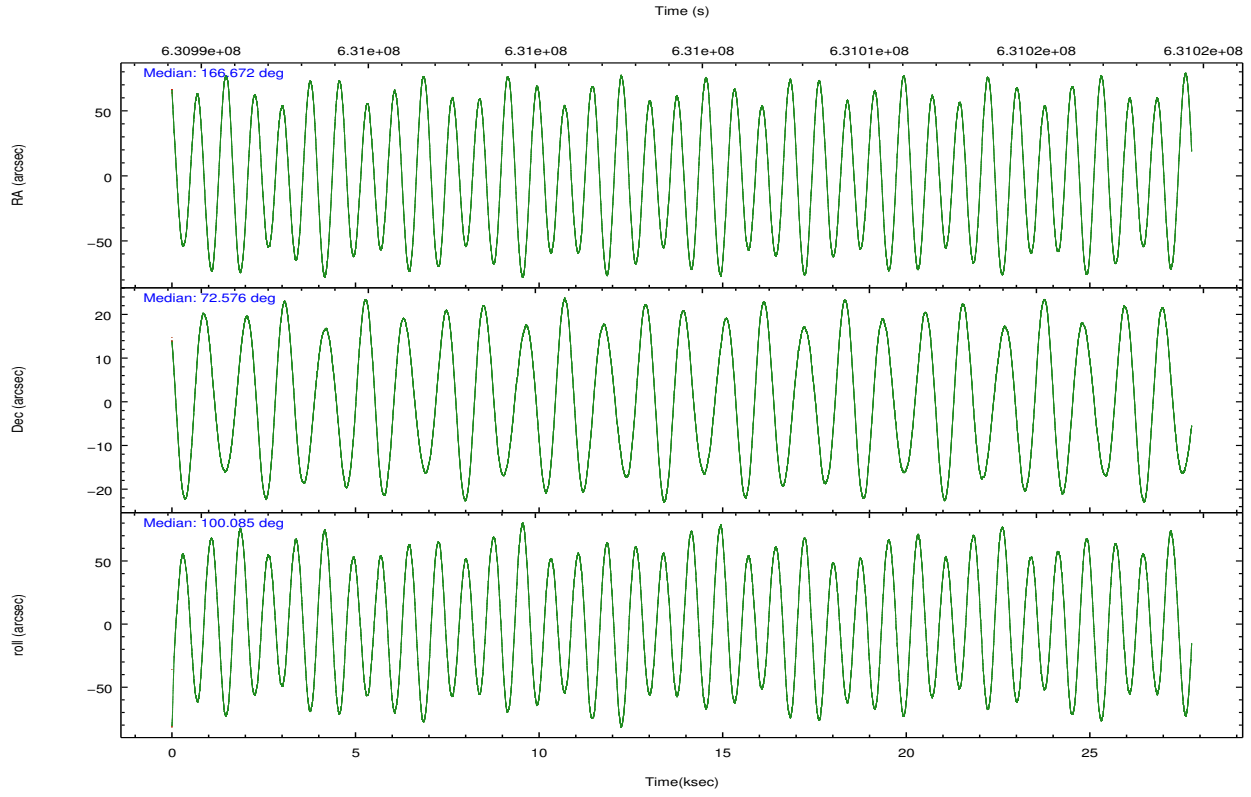
2.2 Compared Parameters

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	166.737235	166.6717894504717
[deg] Pointing Dec	72.555030	72.57613679600004
[deg] Pointing Roll	99.962485	100.0922497946251
[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)	630990678.184000	630989571.14249
Observation start date	2017-12-30T03:10:09	2017-12-30T02:52:51
[s] Observation end time (MET)	631018278.184000	631018939.4442199
Observation end date	2017-12-30T10:50:09	2017-12-30T11:02:19

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED

2.3 Aspect





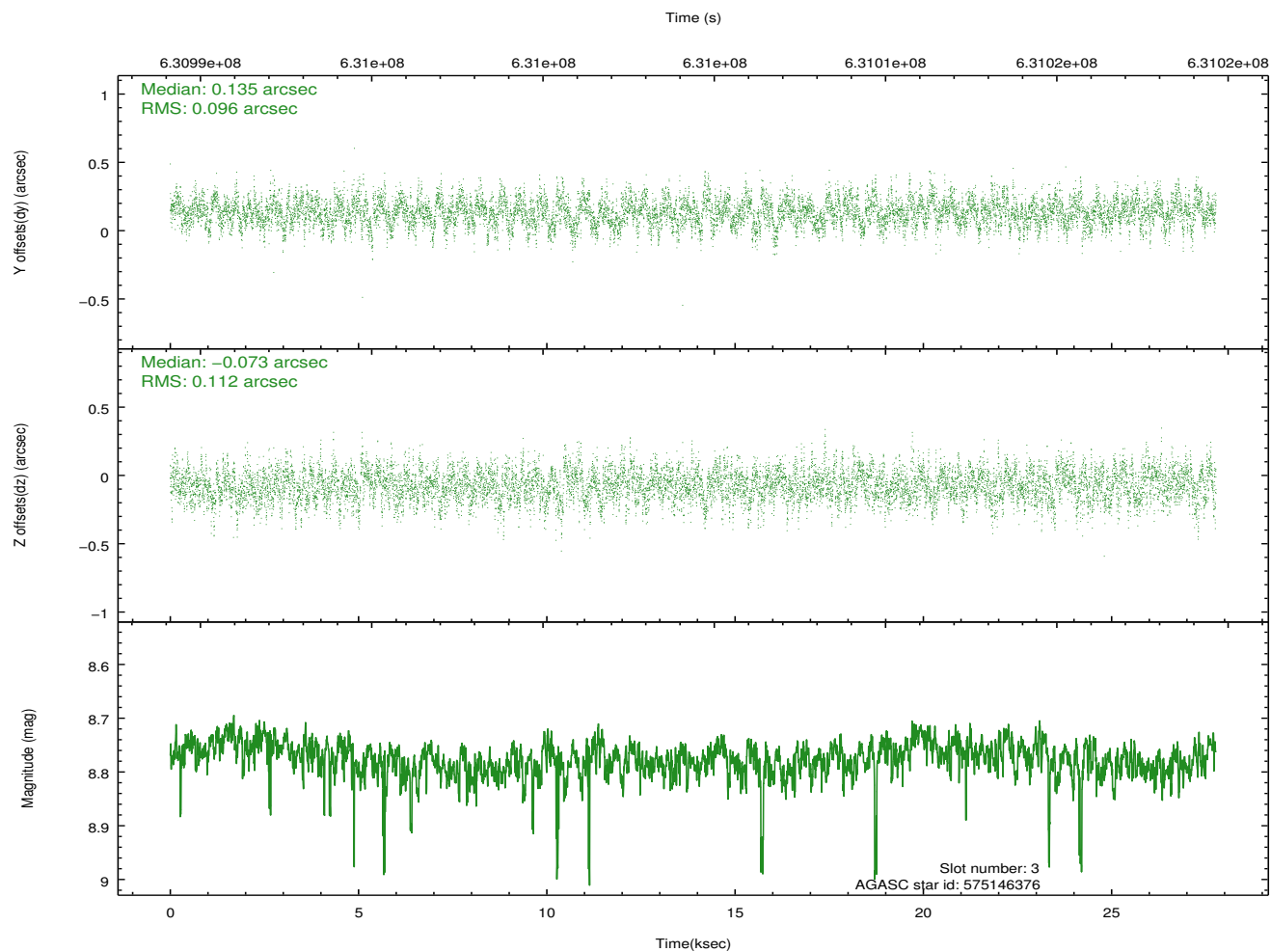
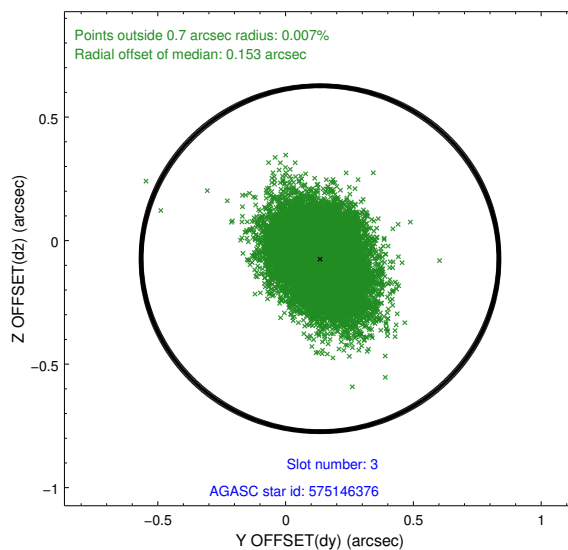
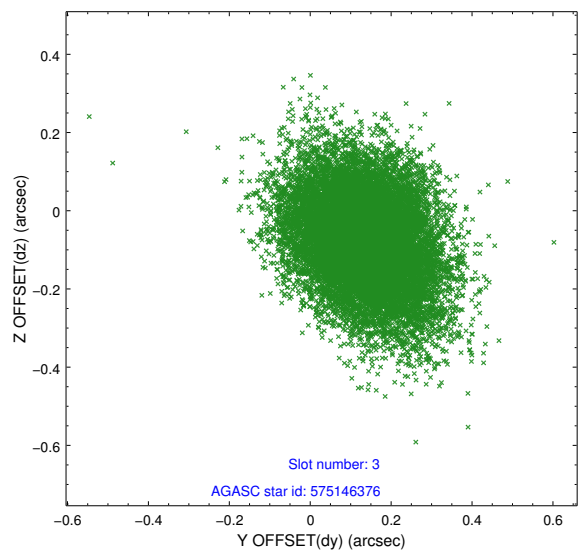
Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		HRC-S-1	7.07	6773	-0.262	-0.221	0.012	0.018	0.000000	0.000000	-1175.79	-470.22
1	FID		HRC-S-2	7.03	6774	0.254	-0.161	0.022	0.043	0.000000	0.000000	1224.23	-462.67
2	FID		HRC-S-4	7.01	6774	0.411	0.078	0.019	0.039	0.000000	0.000000	1223.23	562.30
3	GUIDE	used	575146376	8.78	13537	0.135	-0.073	0.155	0.256	166.888472	72.124920	-1552.98	103.27
4	GUIDE	used	575541080	8.88	13535	0.059	1.051	0.179	0.304	167.870403	73.115273	1793.34	-1516.25
5	GUIDE	used	575541344	9.32	13524	-0.127	-0.584	0.218	0.354	166.947366	72.953762	1376.55	-467.04
6	GUIDE	used	576067400	8.06	13545	0.162	0.588	0.159	0.259	168.743801	72.008418	-2286.30	-1862.73
7	GUIDE	used	575543720	9.31	13530	-0.224	-0.985	0.219	0.348	164.695945	72.631615	687.54	2105.47

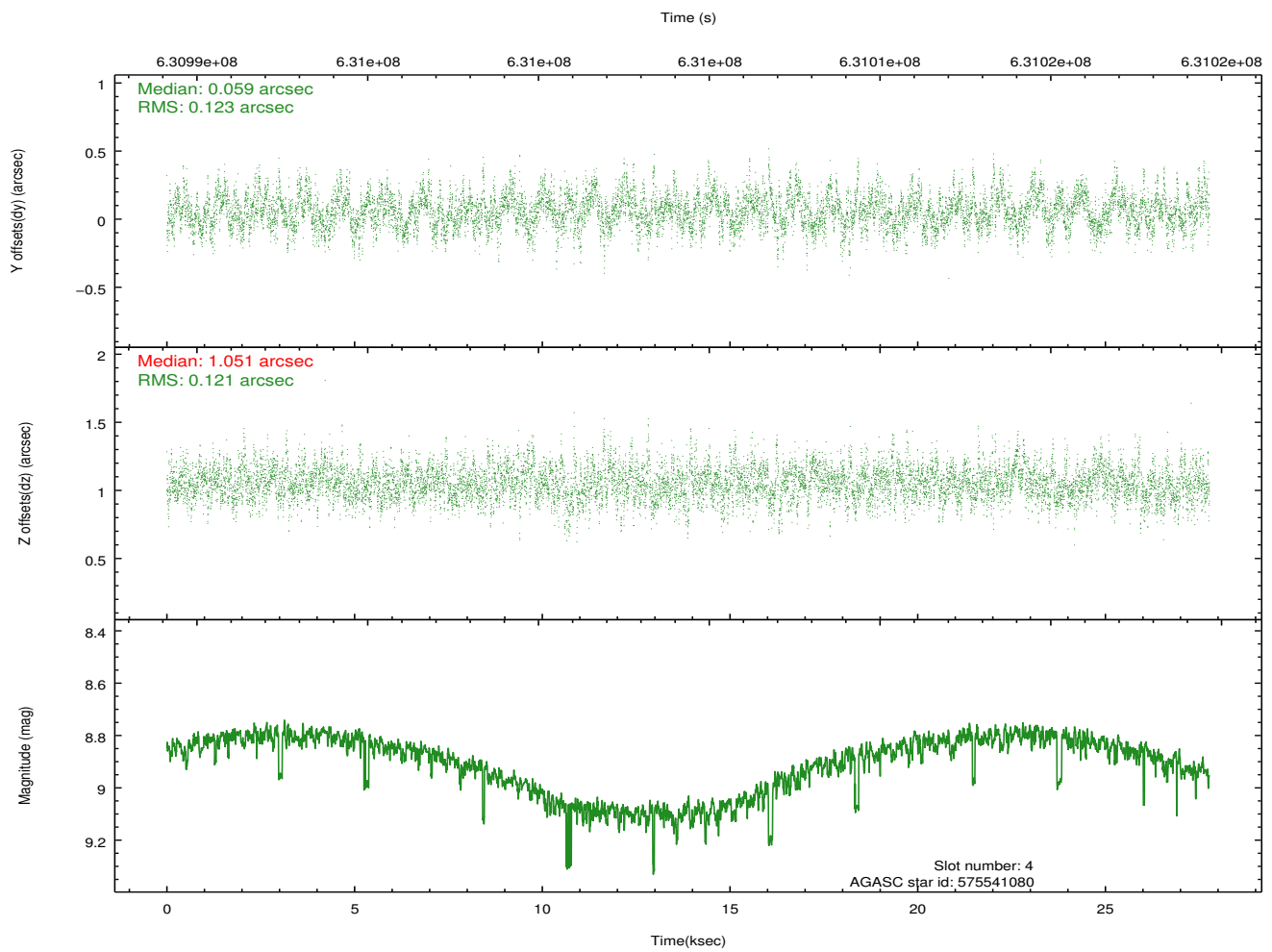
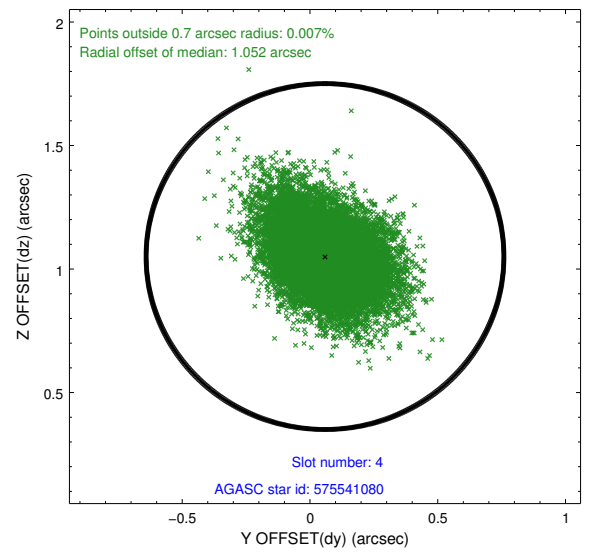
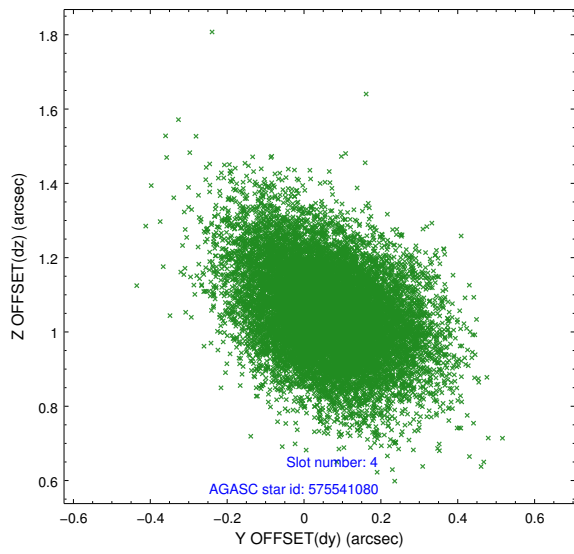
∞

2.4 Star Slots

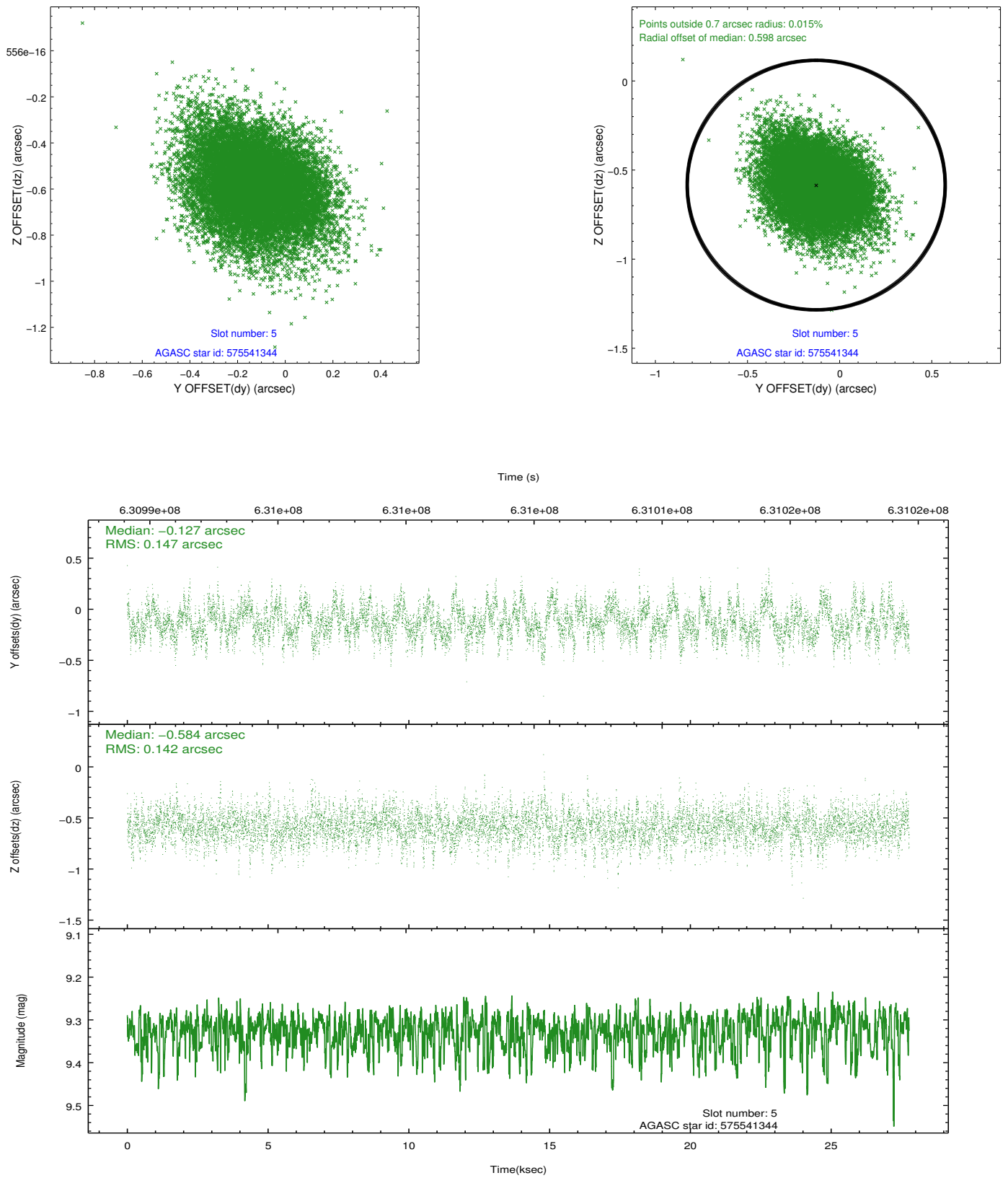
2.4.1 Slot 3



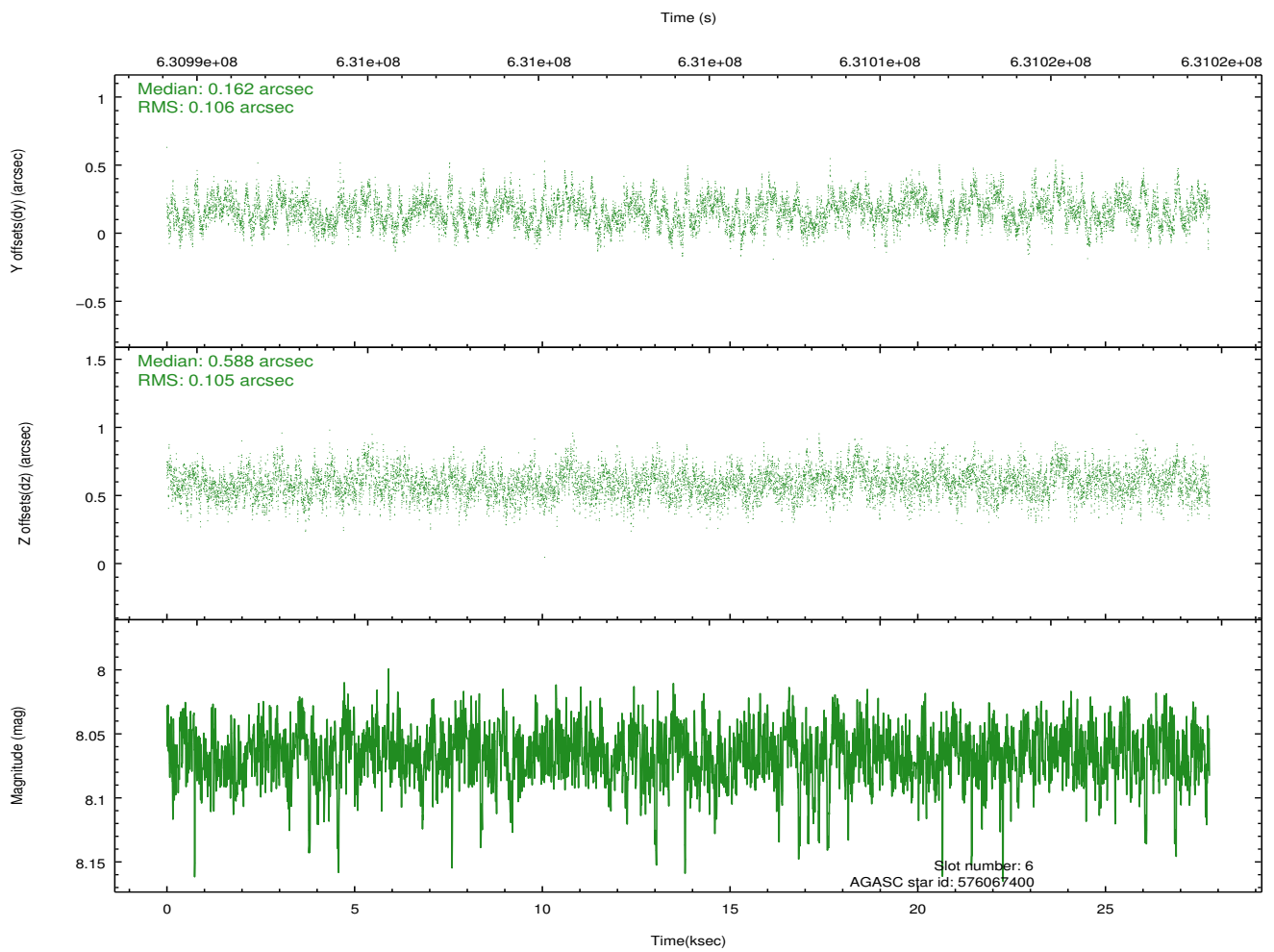
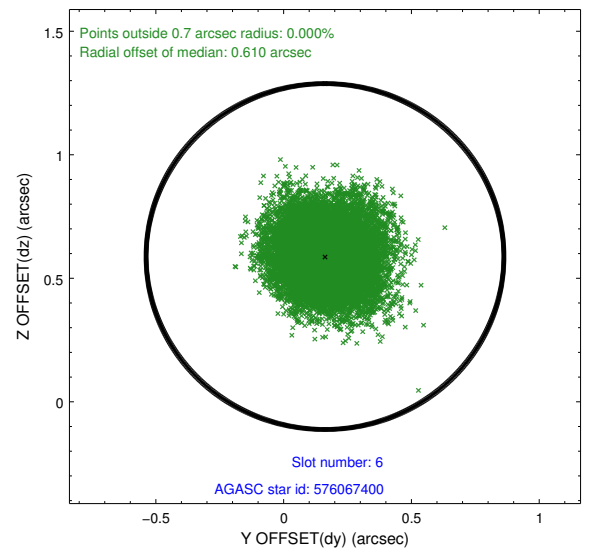
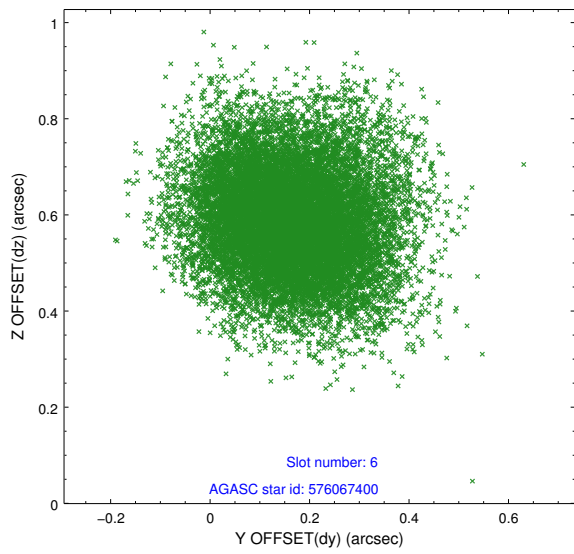
2.4.2 Slot 4



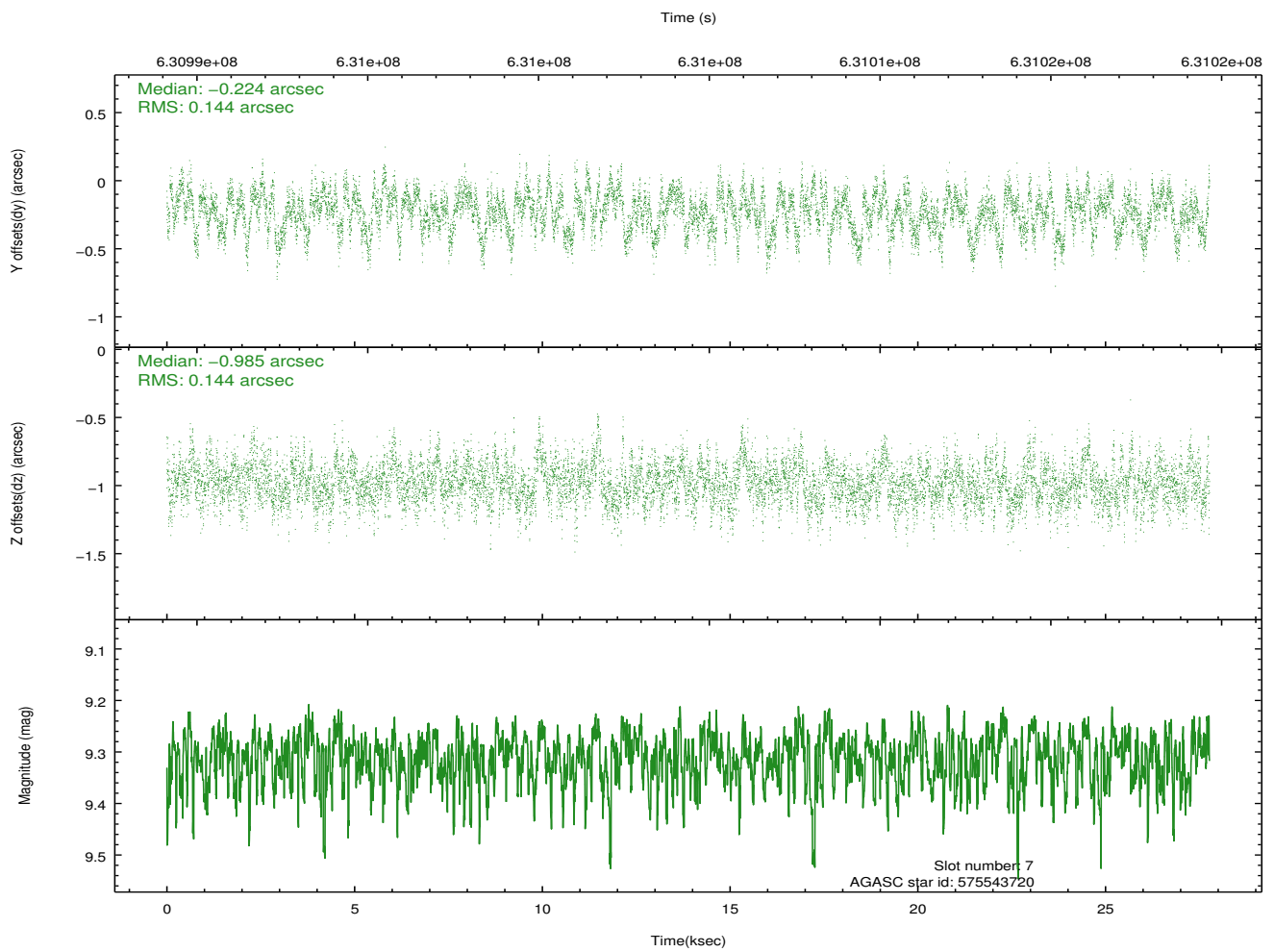
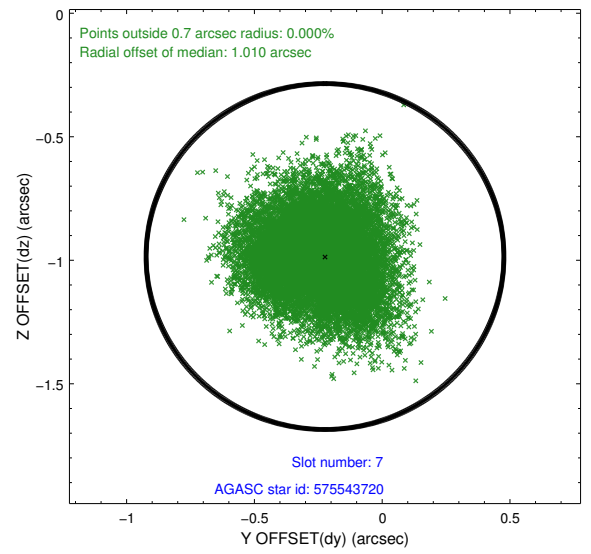
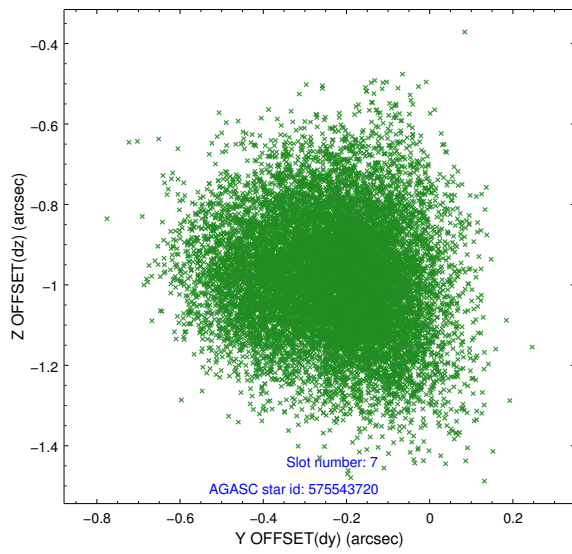
2.4.3 Slot 5



2.4.4 Slot 6

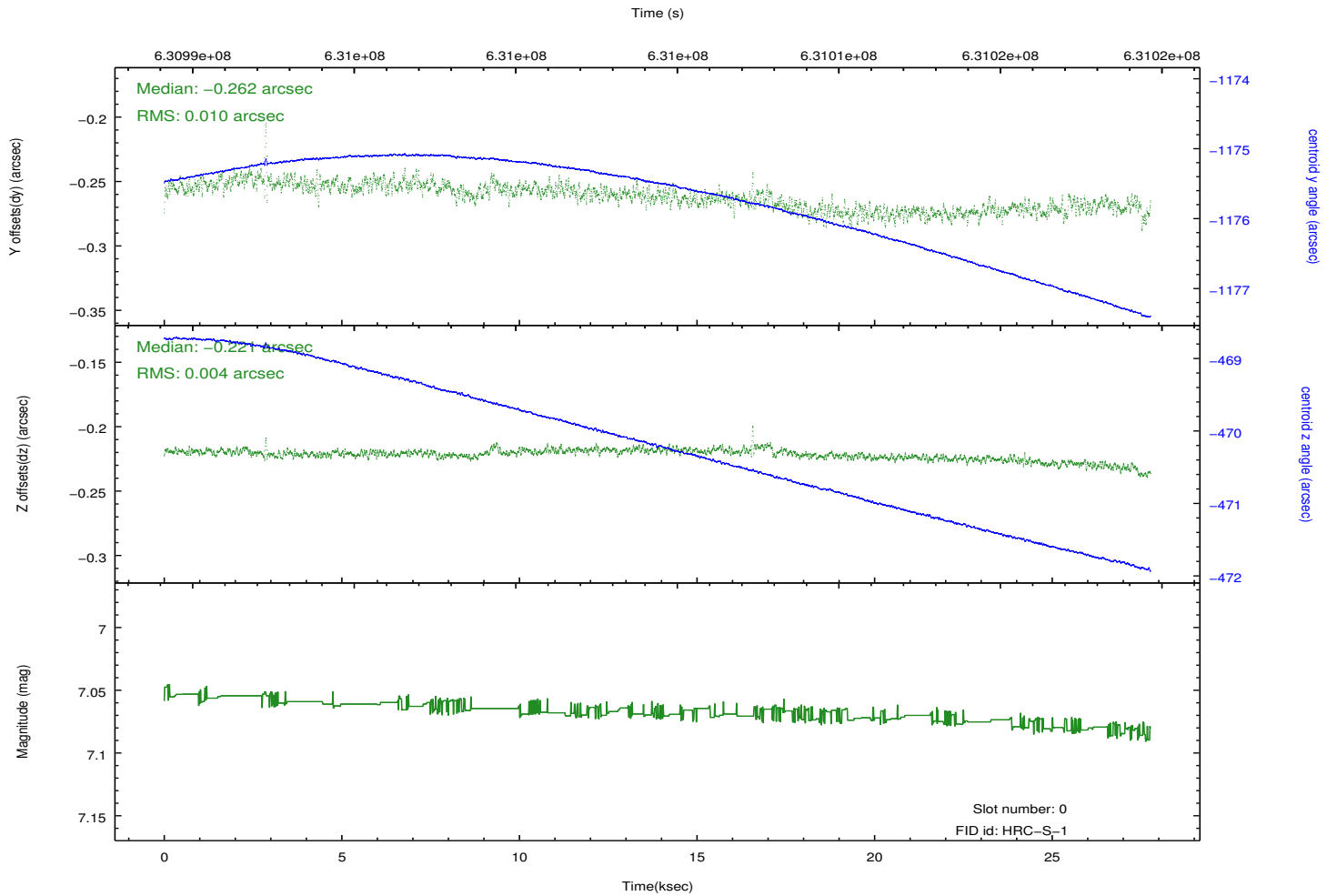
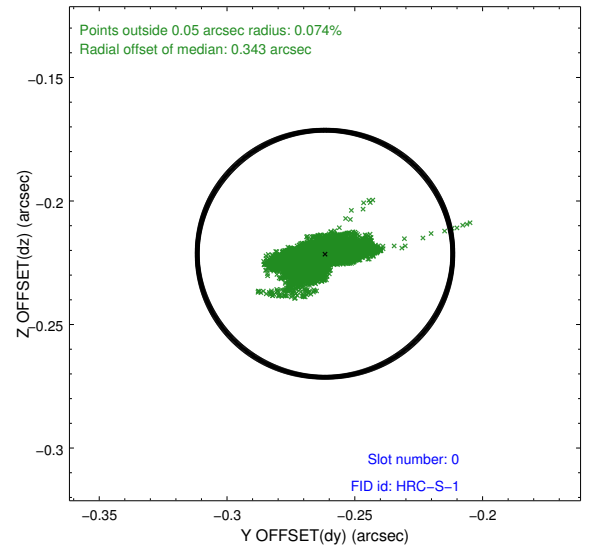
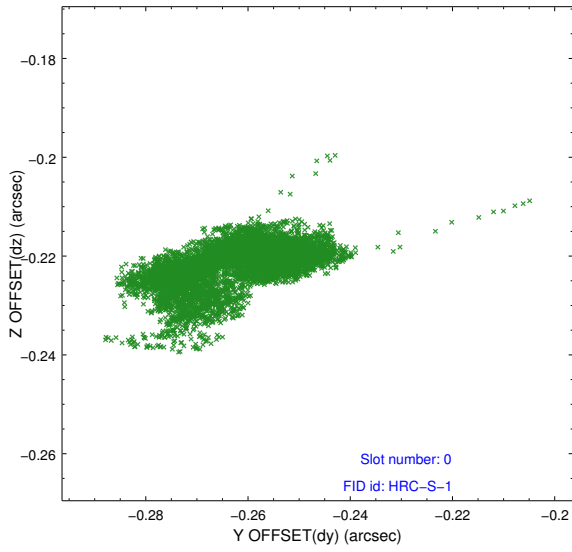


2.4.5 Slot 7

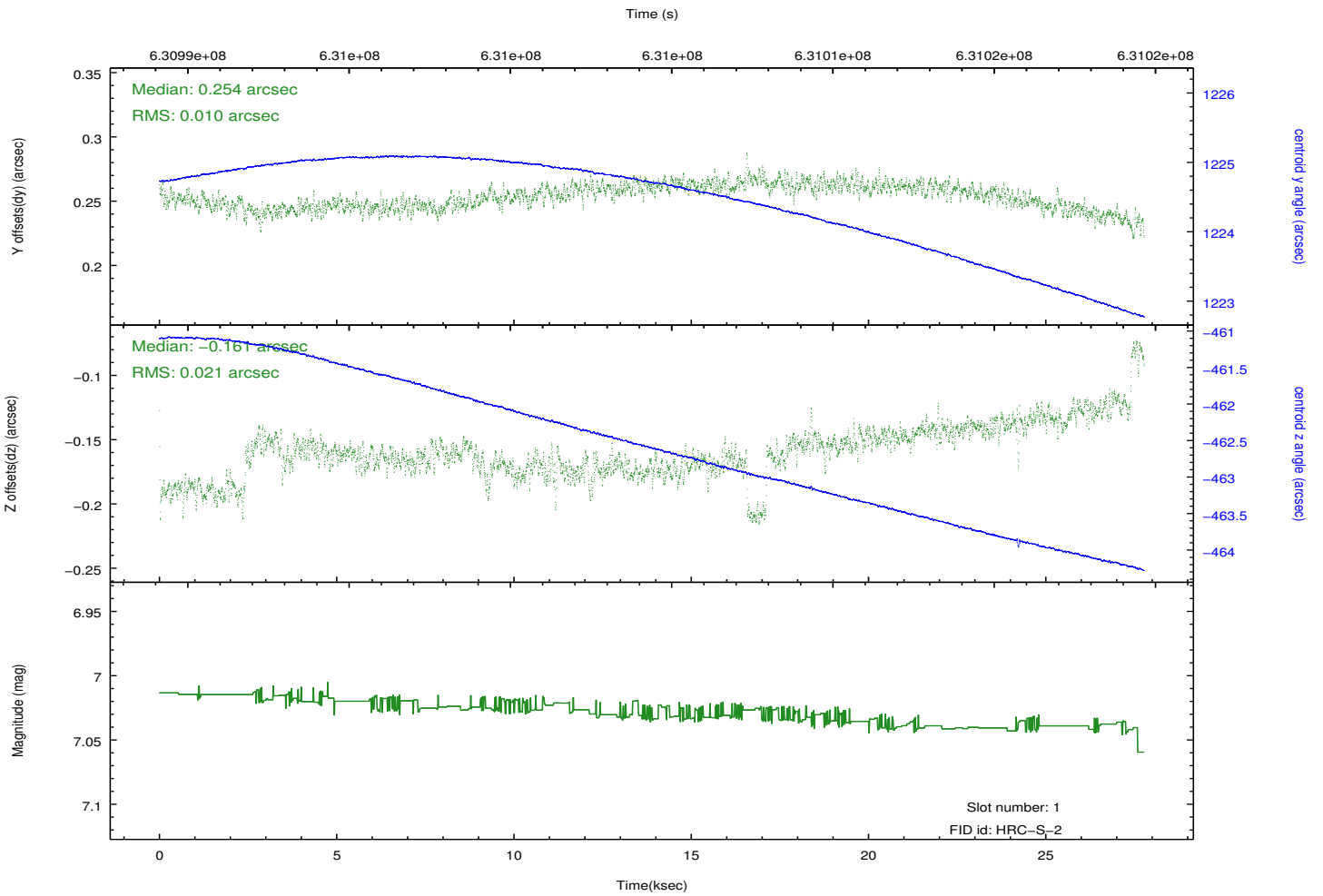
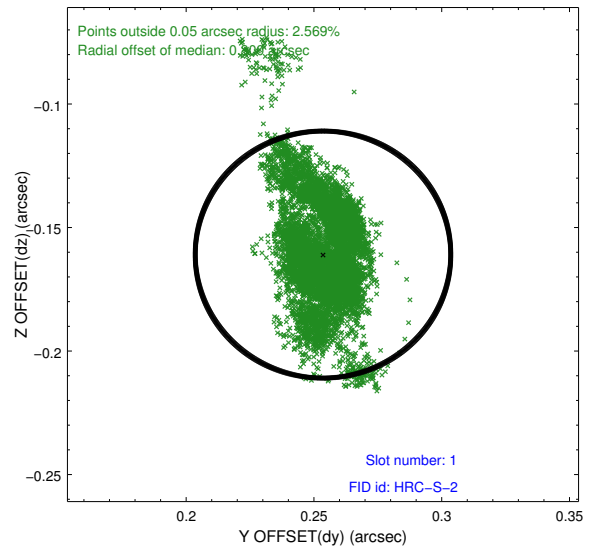
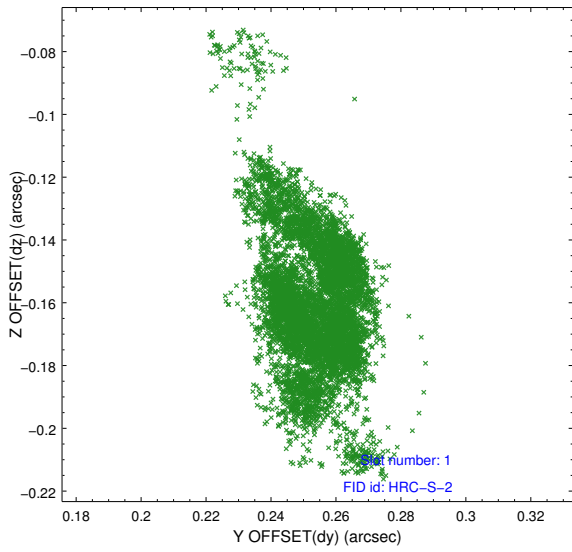


2.5 FID Slots

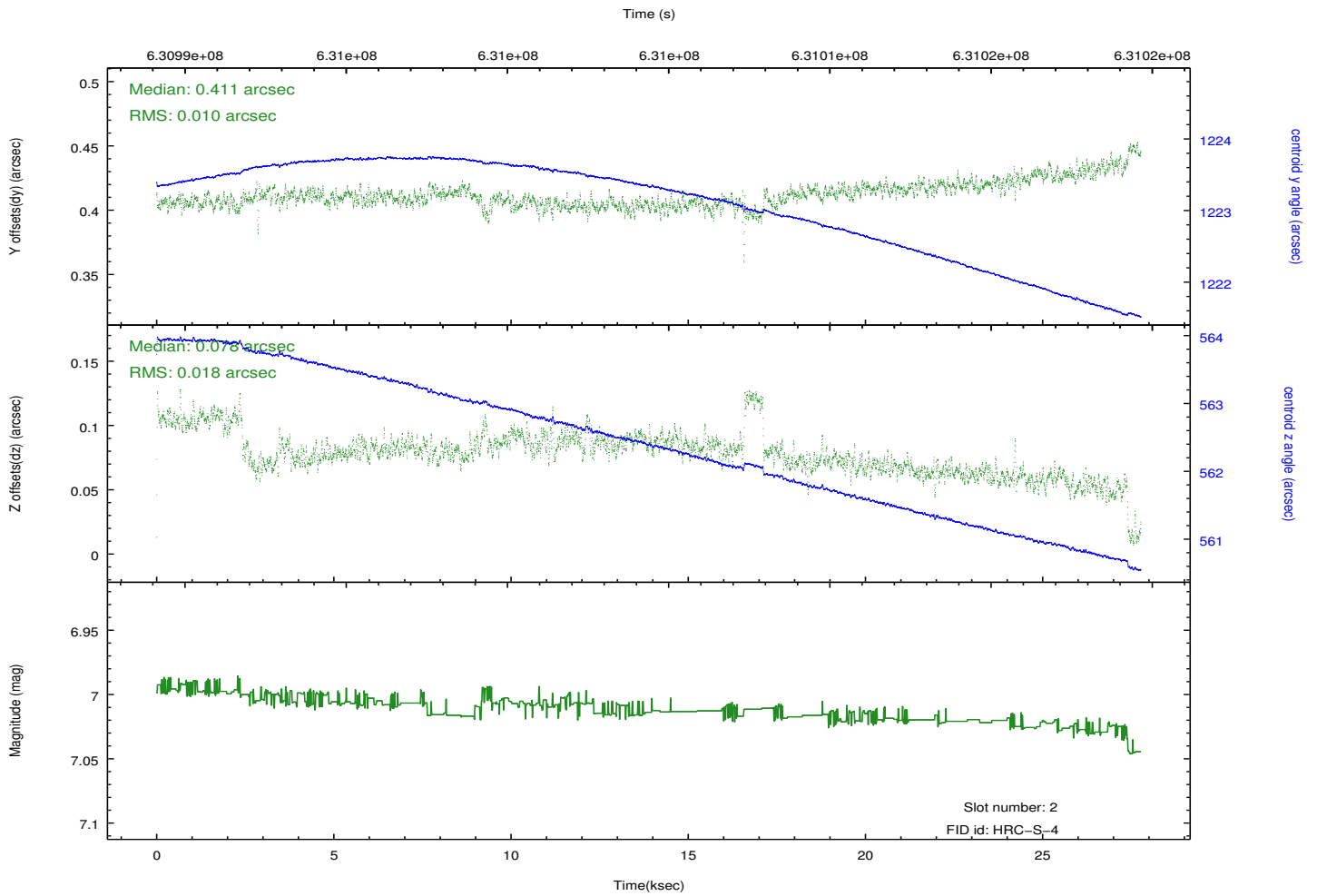
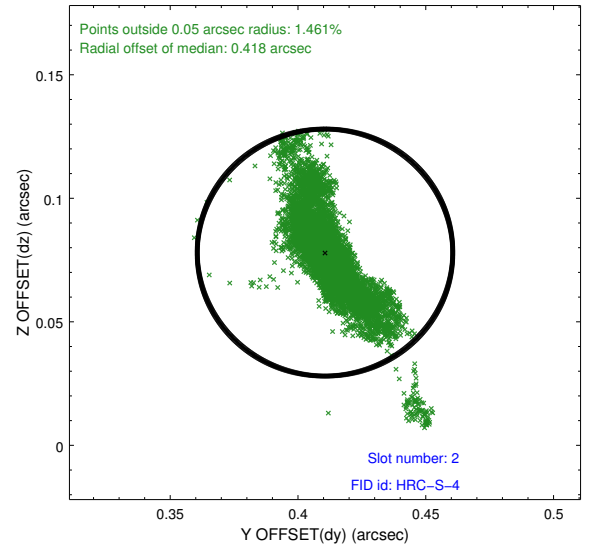
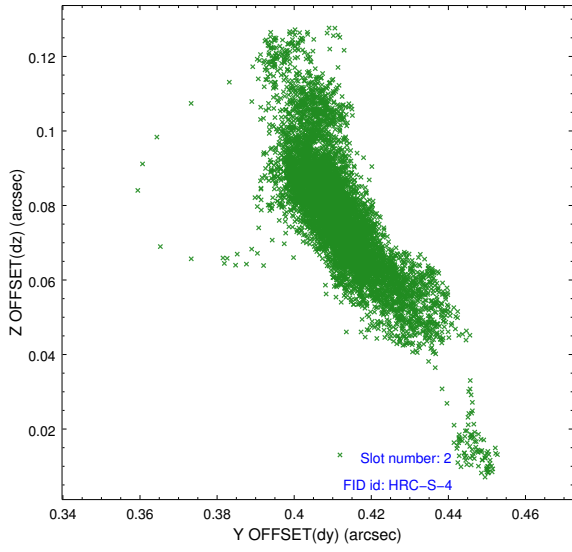
2.5.1 Slot 0



2.5.2 Slot 1

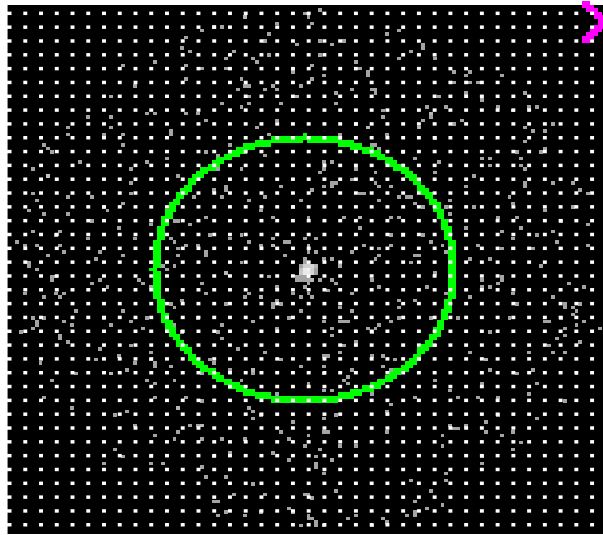


2.5.3 Slot 2

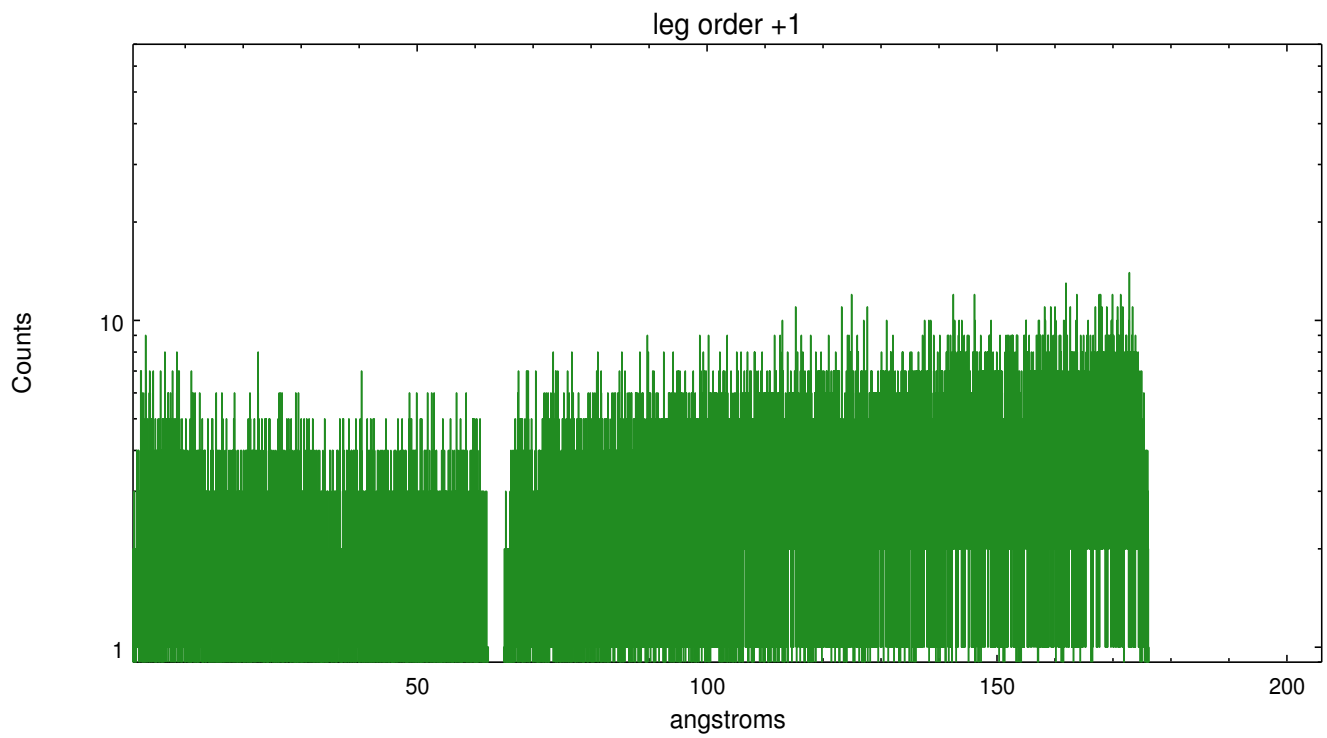
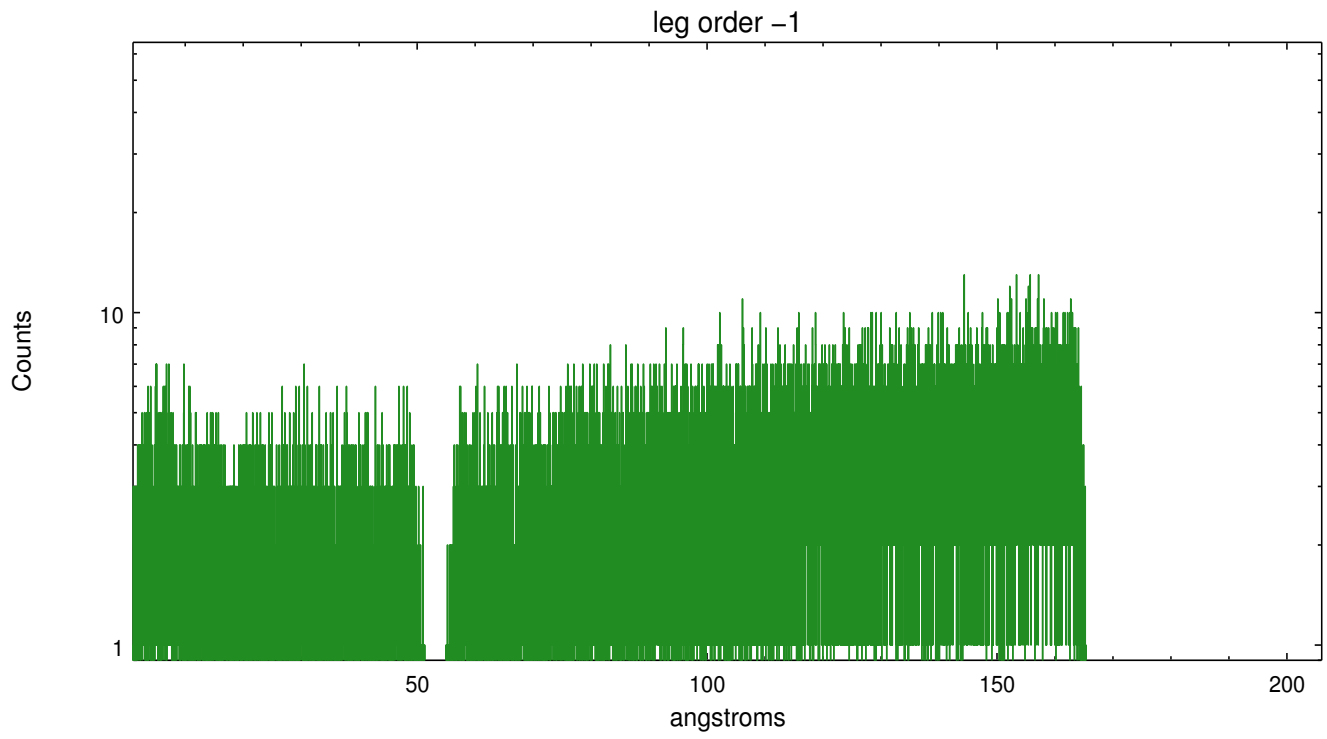


3 Gratings

3.1 LETG Arm



LETG Zero Order



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2018.01.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	27.77135163331

A.2 Comments

WARNING: there are no standard ciao tools for analysis of grating spectra from extended sources. The shape of an emission 'line' will be the shape of the zero order spatial structure convolved with the instrumental LSF. Grating extractions can be used, but need to be combined with custom spatial-spectral analysis, since wavelength is multi-valued at any particular diffraction angle. === Source is slightly extended with non-uniform X-ray flux in the core. The user may want to extract the spectrum using a different zeroth order position to center on the area of interest.