

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 18151 - L2 Version 1
Chandra X-Ray Center

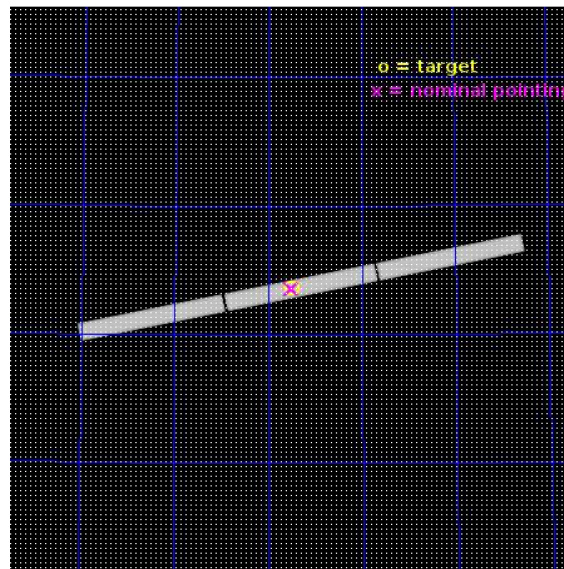
L2 Processing Date : Nov 25 2016

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1 Front

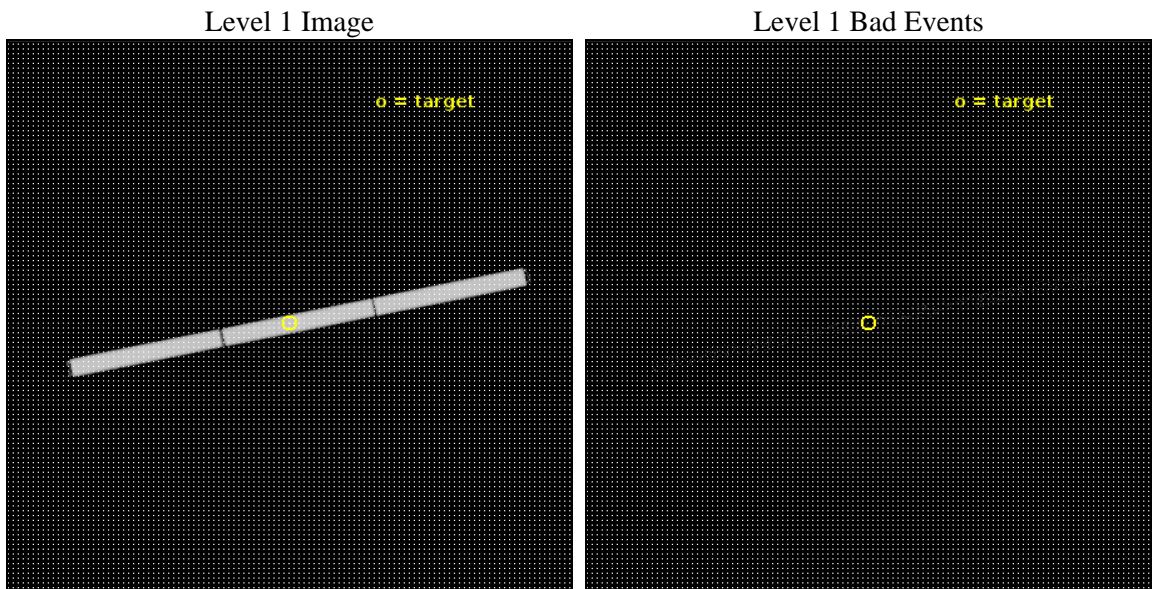
seq_num	703217	Sequence number
obs_id	18151	Observation id
title	The NLSy1 IRAS17020+4544: dissecting the first low ionization sub-relativistic black hole wind with LETG and HST/COS	Proposal title
observer	Dr Anna Lia Longinotti	Principal investigator
object	IRAS 17020+4544	Source name
ra_targ	255.876667	Observer's specified target RA [deg]
dec_targ	45.679722	Observer's specified target Dec [deg]
ra_nom	255.87737336087	Nominal RA [deg]
dec_nom	45.678953117023	Nominal Dec [deg]
roll_nom	348.06683829673	Nominal Roll [deg]
revision	1	Processing version of data
ontime	25650.882730603	[s]
livetime	25419.844933812	Ontime multiplied by DTCOR
l2events	2083294	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	25500.000000	[s] Scheduled observation exposure time
ascdsver	10.5.2	Processing system revision	ontime	25650.882730603	[s]
caldsver	4.7.2	 	l1events	2691212	Number of level 1 events
date	2016-11-25T17:33:38	Date and time of file creation	tgmethod	TGDETECT	Method used to create src1a file
revision	1	Processing version of data	zo_pos	(32784.64, 32790.25)	src1a sky pixel position

2.1.3 Events

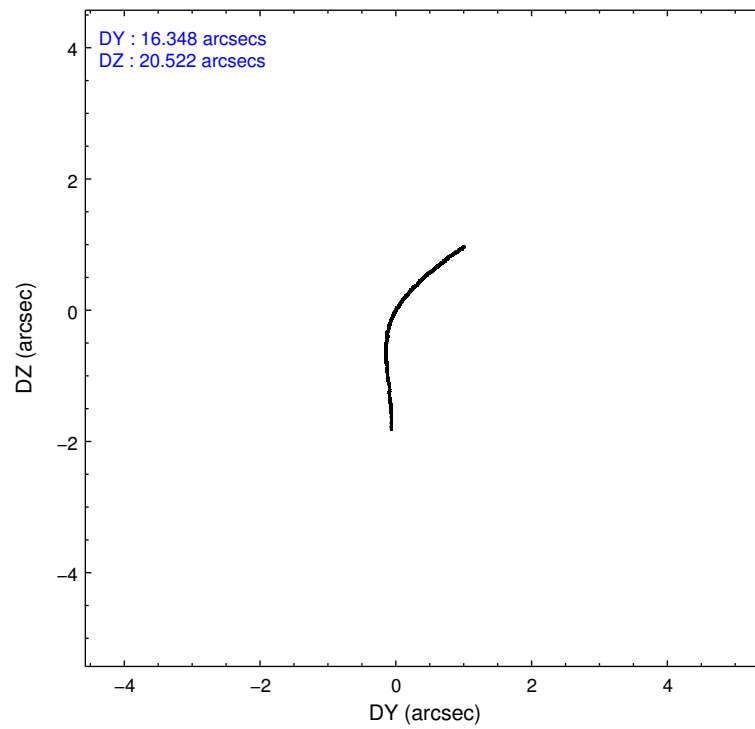
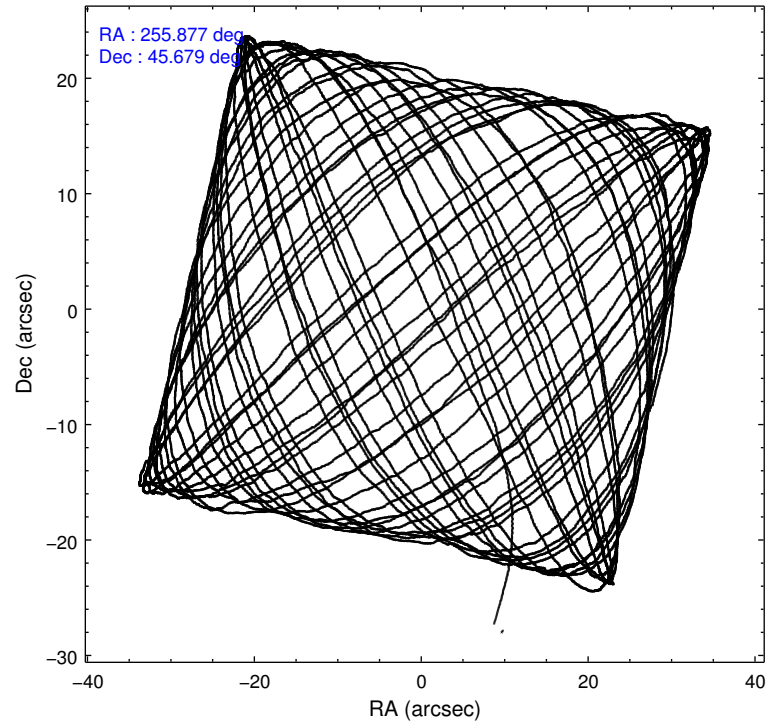
Level 1 Events

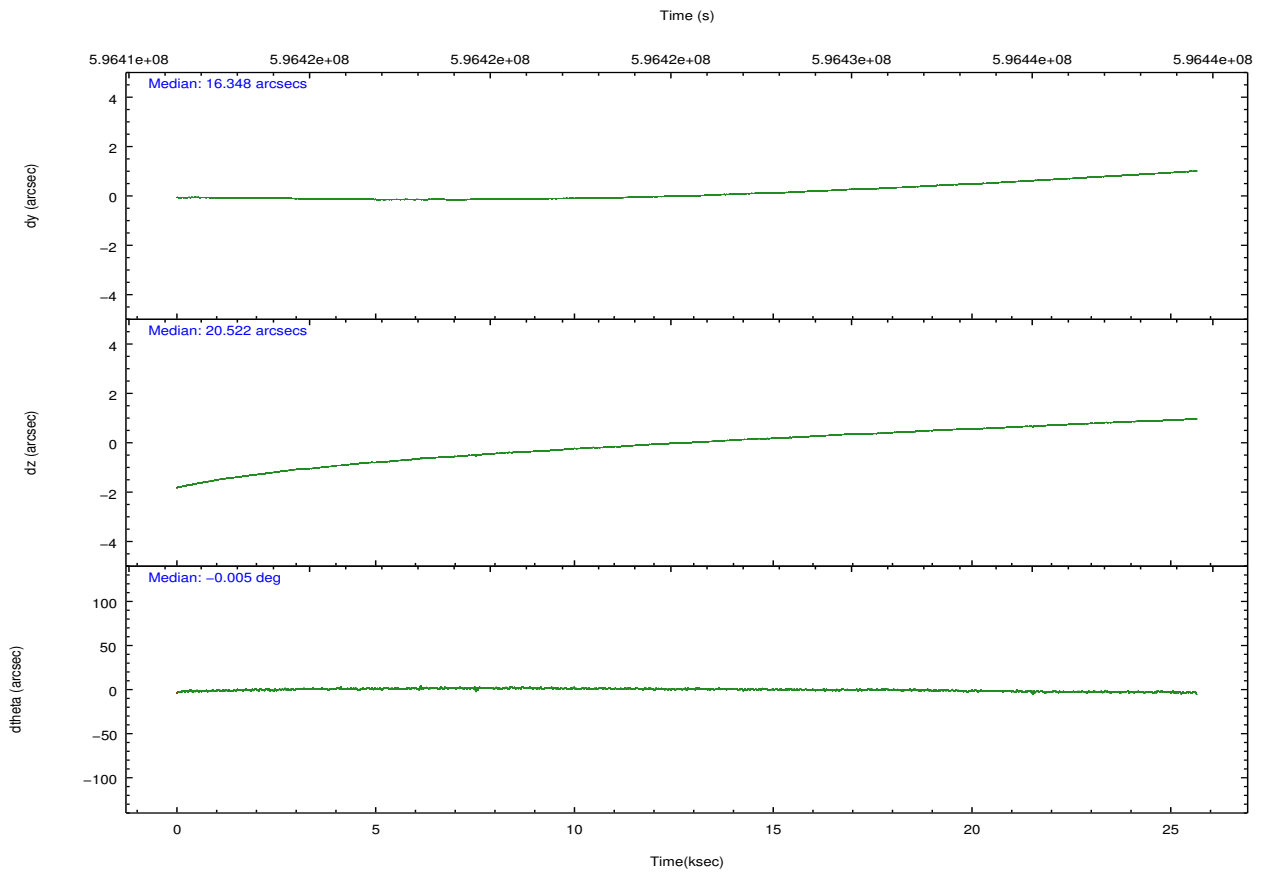
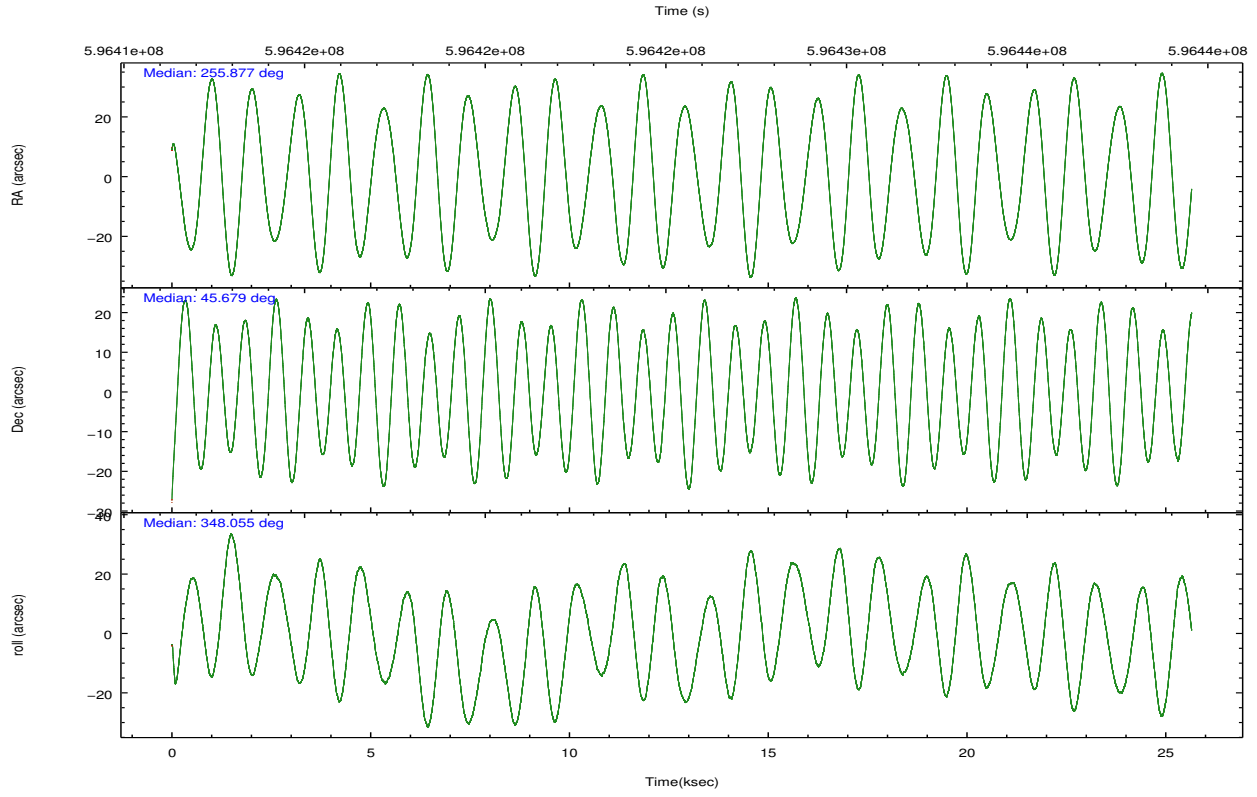
	segment 1	segment 2	segment 3
level 1 events	899039	902502	889671
rejected events	41910	41745	41523
rejected %	4%	4%	4%

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	255.838843	255.877373360872			
[deg] Pointing Dec	45.668668	45.67895311702277			
[deg] Pointing Roll	348.027064	348.0668382967304			
[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)	596412747.184000	596411328.4031399			
Observation start date	2016-11-24T22:11:19	2016-11-24T21:48:48			
[s] Observation end time (MET)	596438247.184000	596439225.31725			
Observation end date	2016-11-25T05:16:19	2016-11-25T05:33:45			

2.3 Aspect



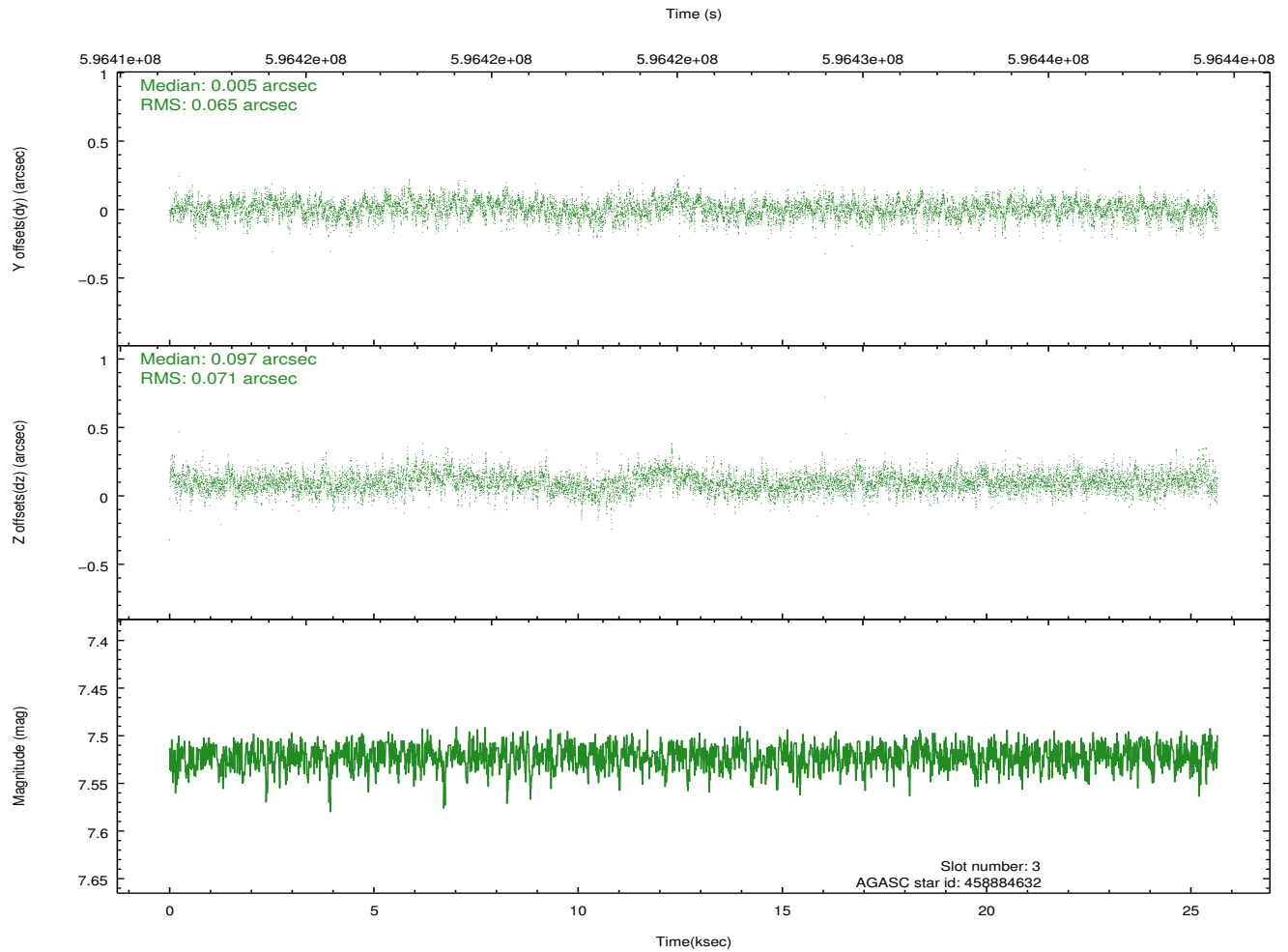
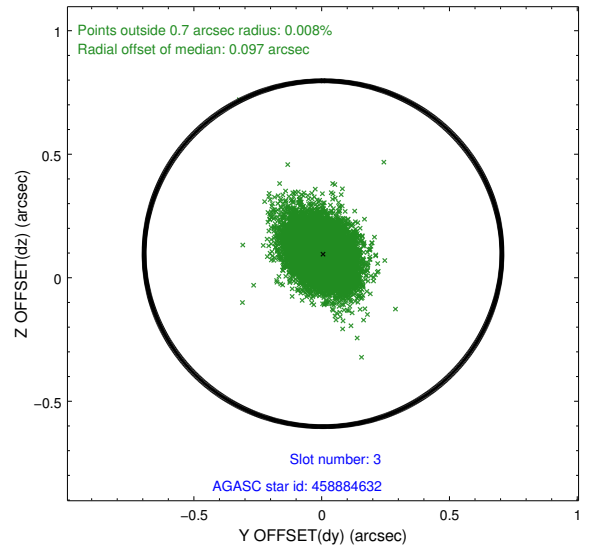
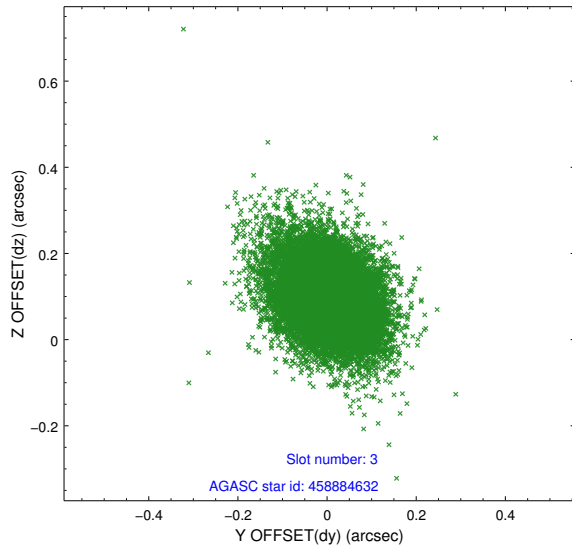


Slot Statistics

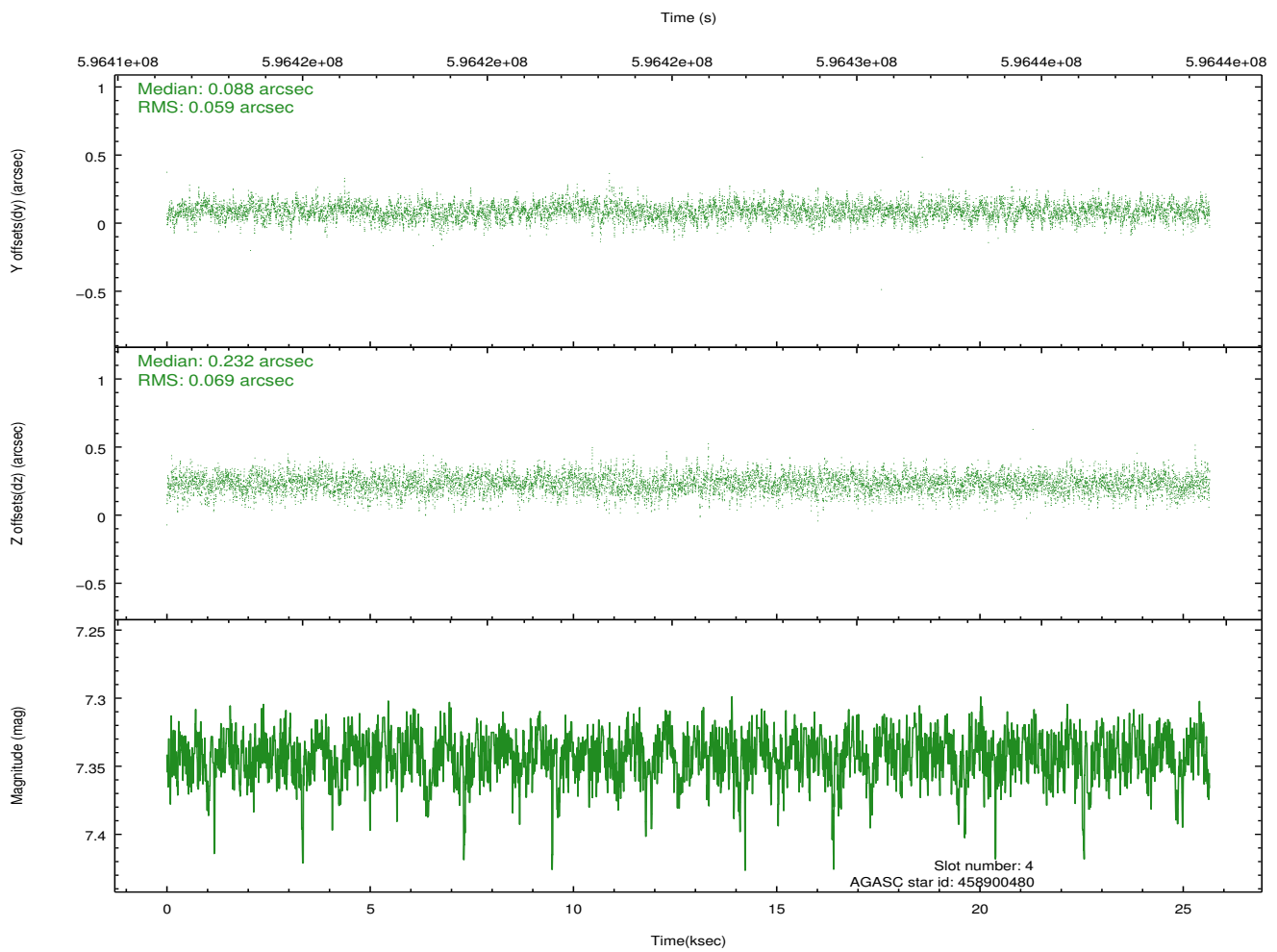
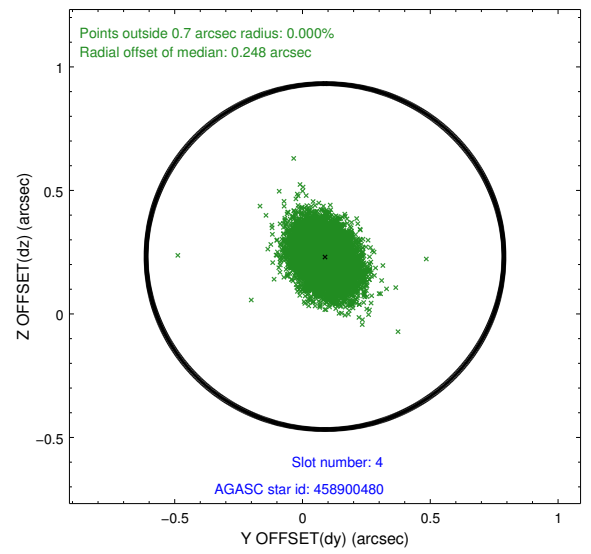
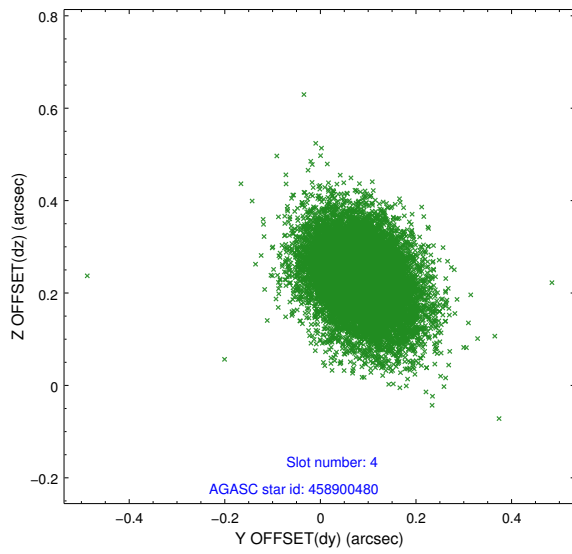
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		HRC-S-1	7.03	6257	-0.047	-0.236	0.022	0.041	0.000000	0.000000	-1171.06	-469.55
1	FID		HRC-S-2	7.00	6257	0.380	-0.131	0.006	0.011	0.000000	0.000000	1228.86	-462.08
2	FID		HRC-S-3	7.02	6257	0.057	0.064	0.022	0.041	0.000000	0.000000	-1173.51	560.20
3	GUIDE	used	458884632	7.52	12512	0.005	0.097	0.100	0.168	255.252206	46.274104	-1881.07	1834.41
4	GUIDE	used	458900480	7.34	12514	0.088	0.232	0.095	0.160	255.979899	45.449218	513.06	-698.05
5	GUIDE	used	458901632	7.78	12510	-0.018	-0.142	0.103	0.172	255.903814	46.023878	-105.61	1283.87
6	GUIDE	used	458903928	7.97	12509	-0.082	-0.115	0.102	0.165	256.022074	46.089865	133.73	1575.23
7	GUIDE	used	458884880	8.24	12503	0.007	-0.074	0.147	0.246	256.521653	45.006814	2193.03	-1962.26

2.4 Star Slots

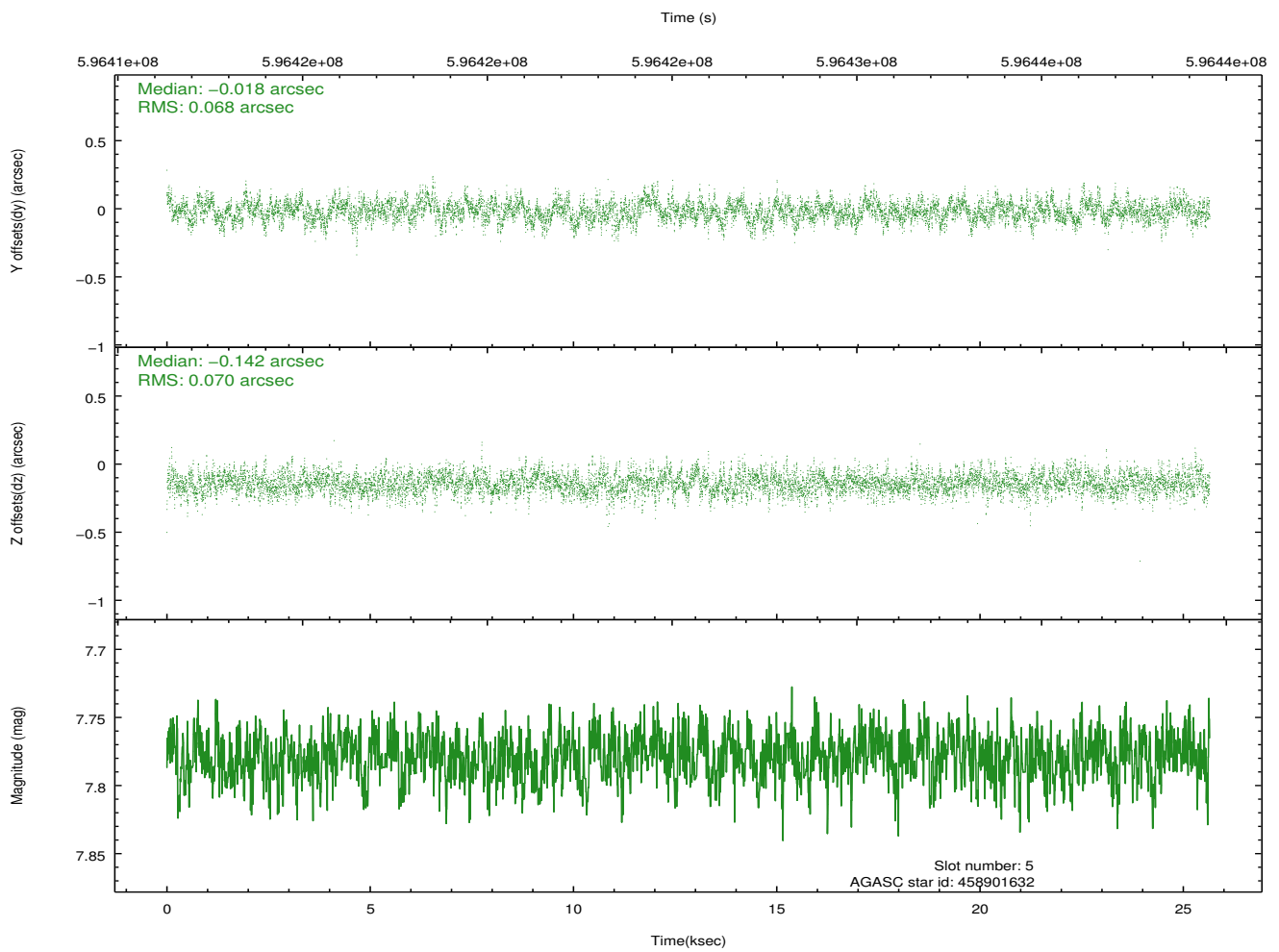
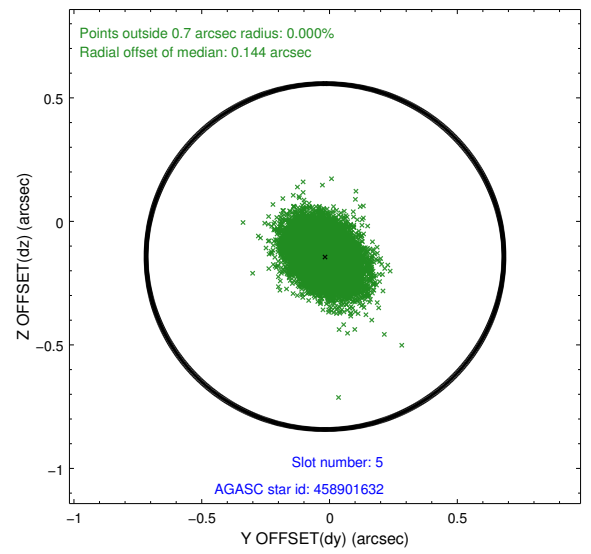
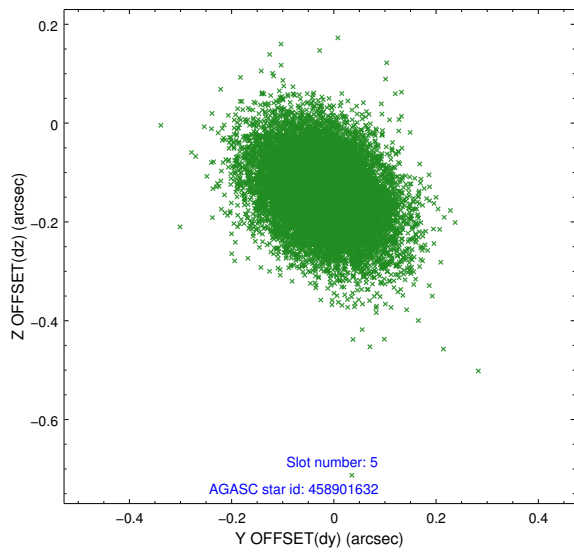
2.4.1 Slot 3



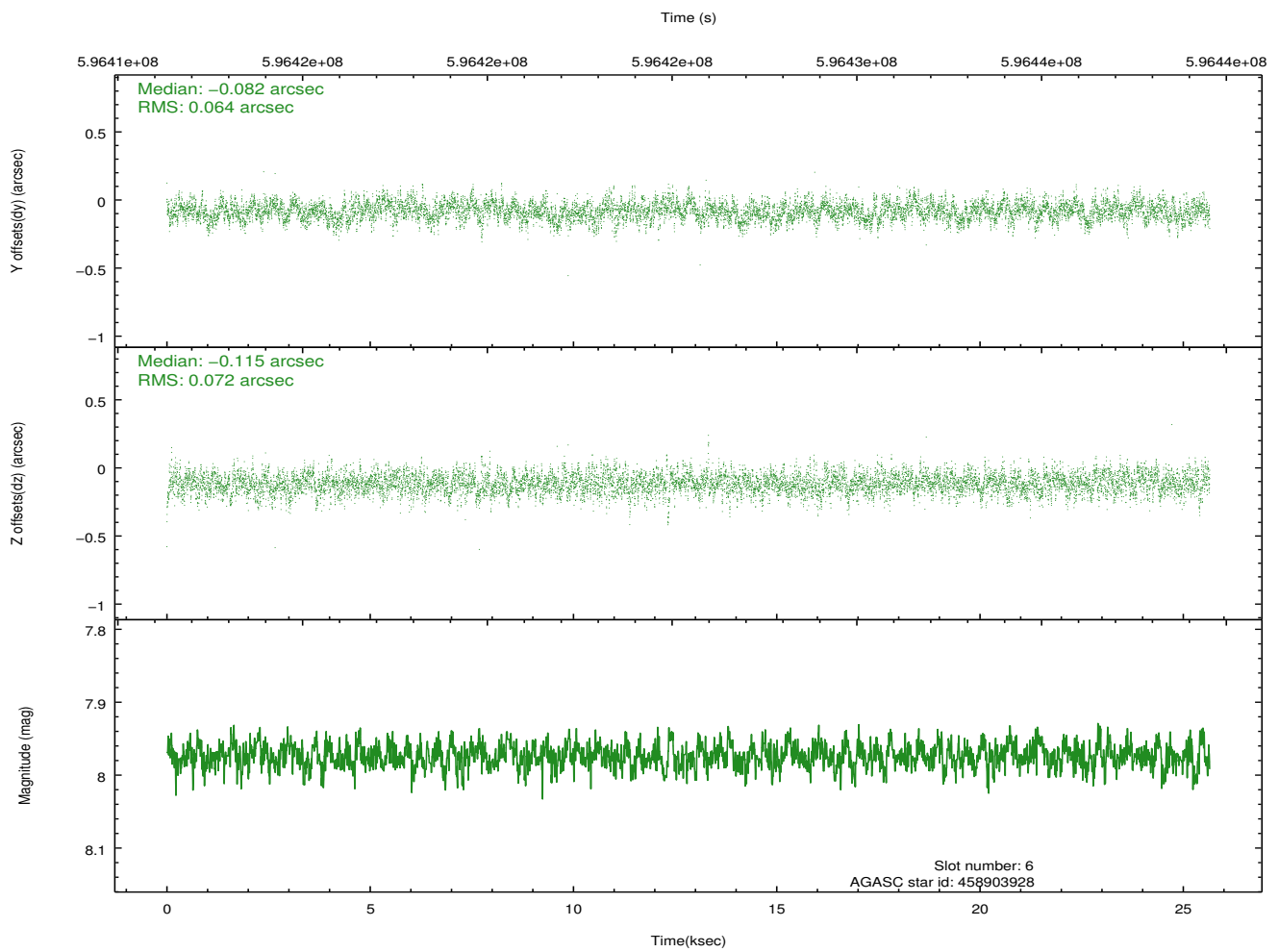
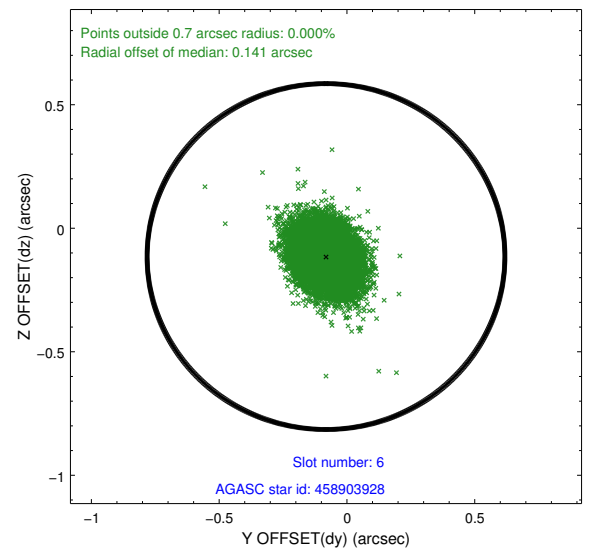
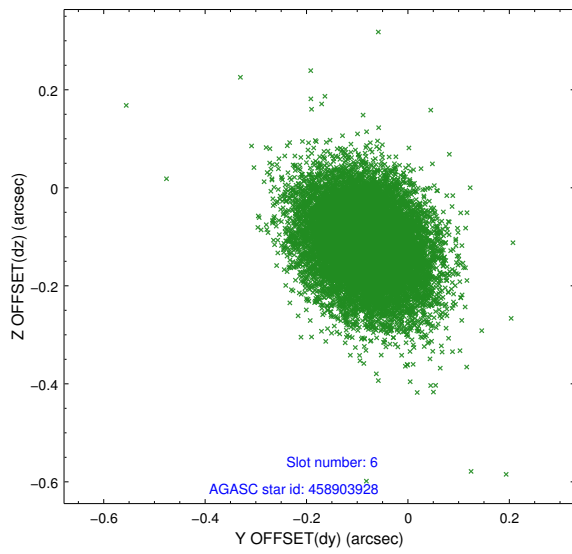
2.4.2 Slot 4



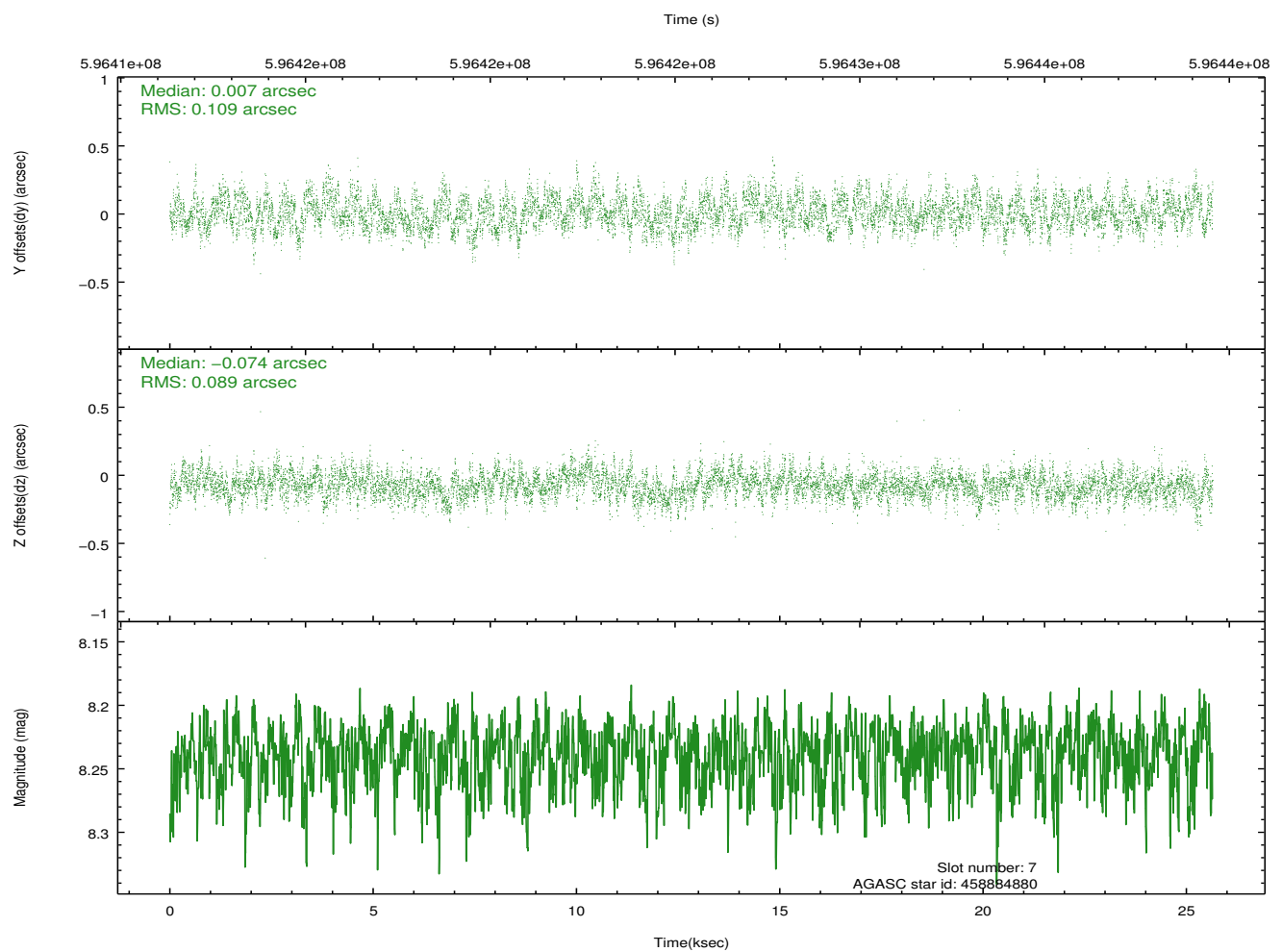
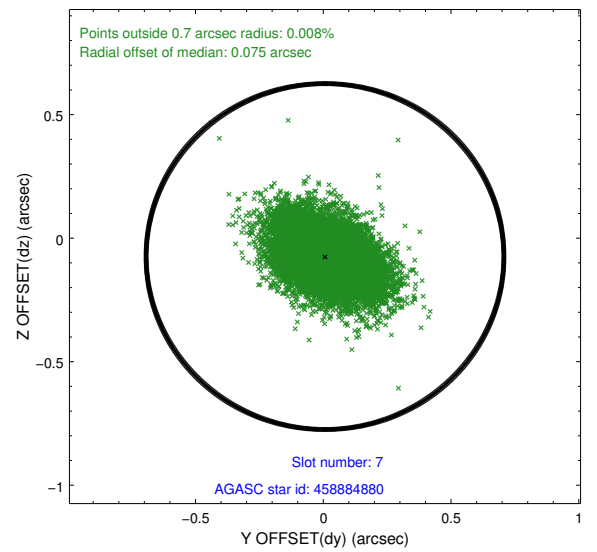
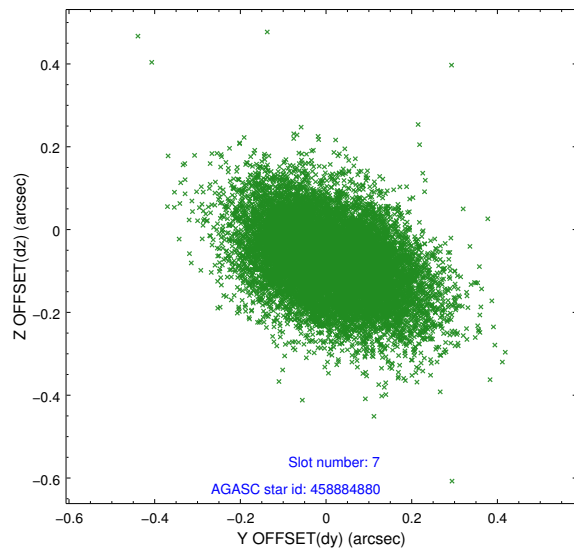
2.4.3 Slot 5



2.4.4 Slot 6

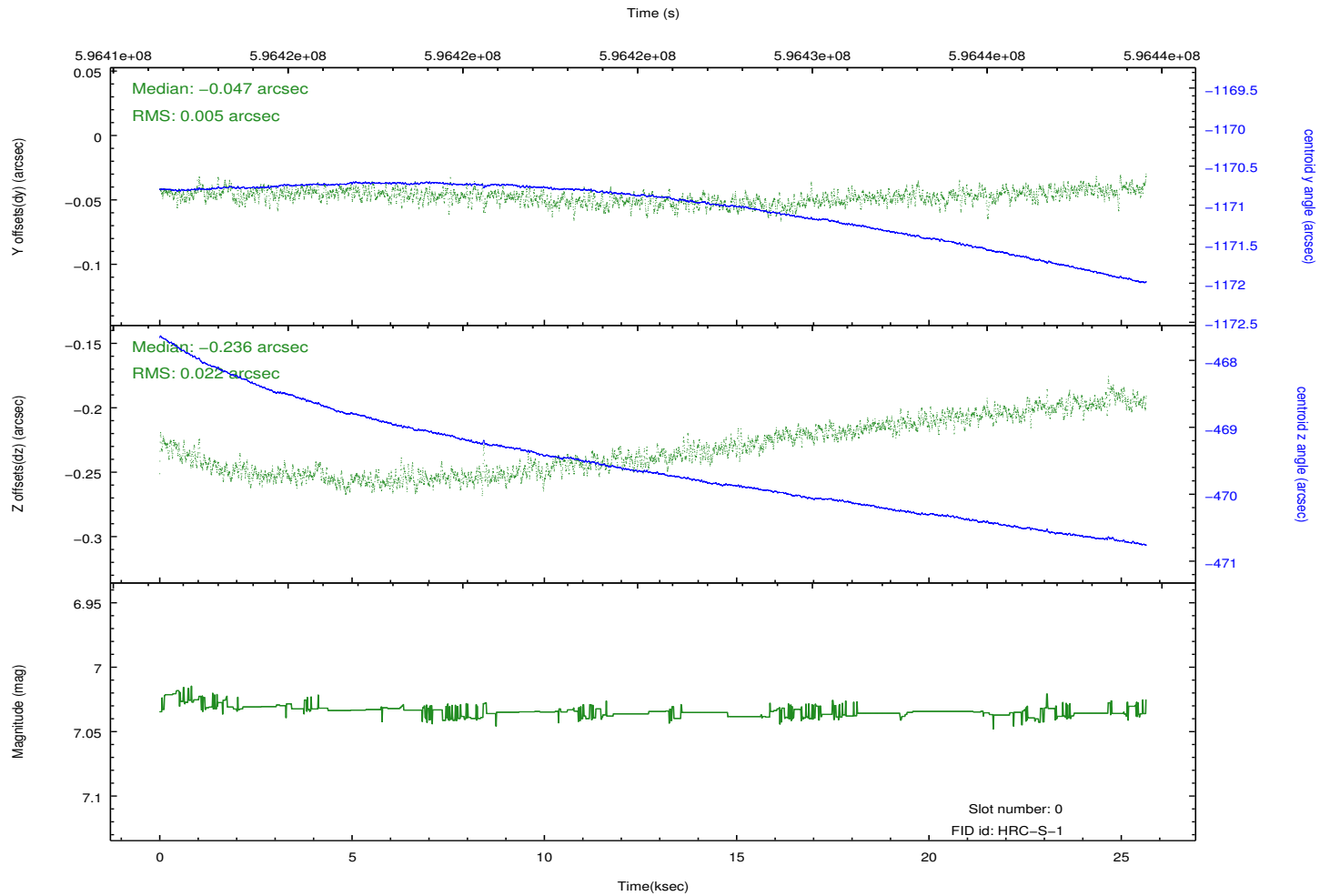
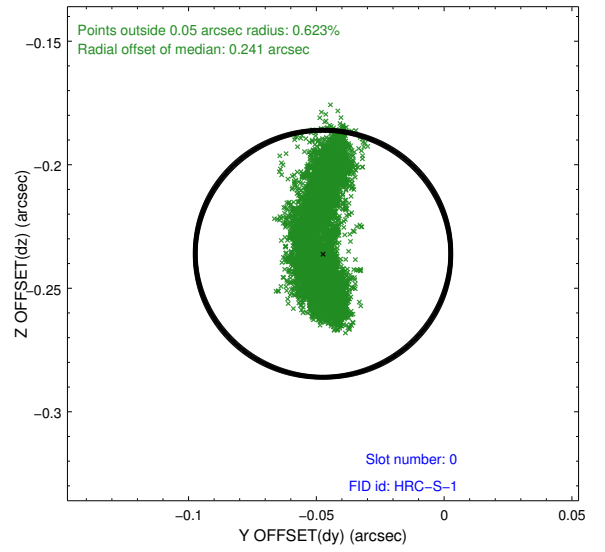
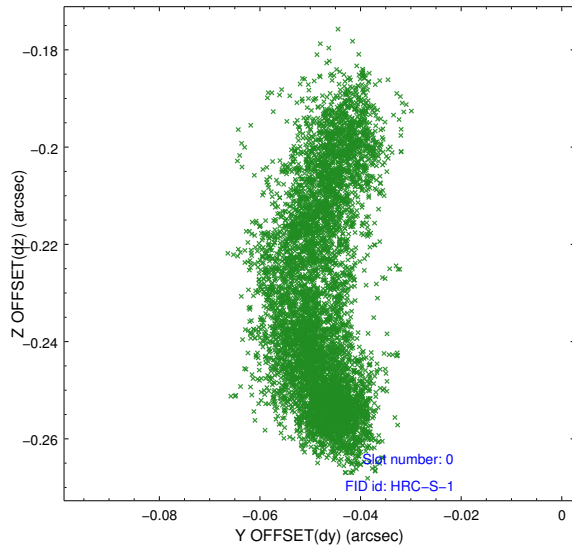


2.4.5 Slot 7

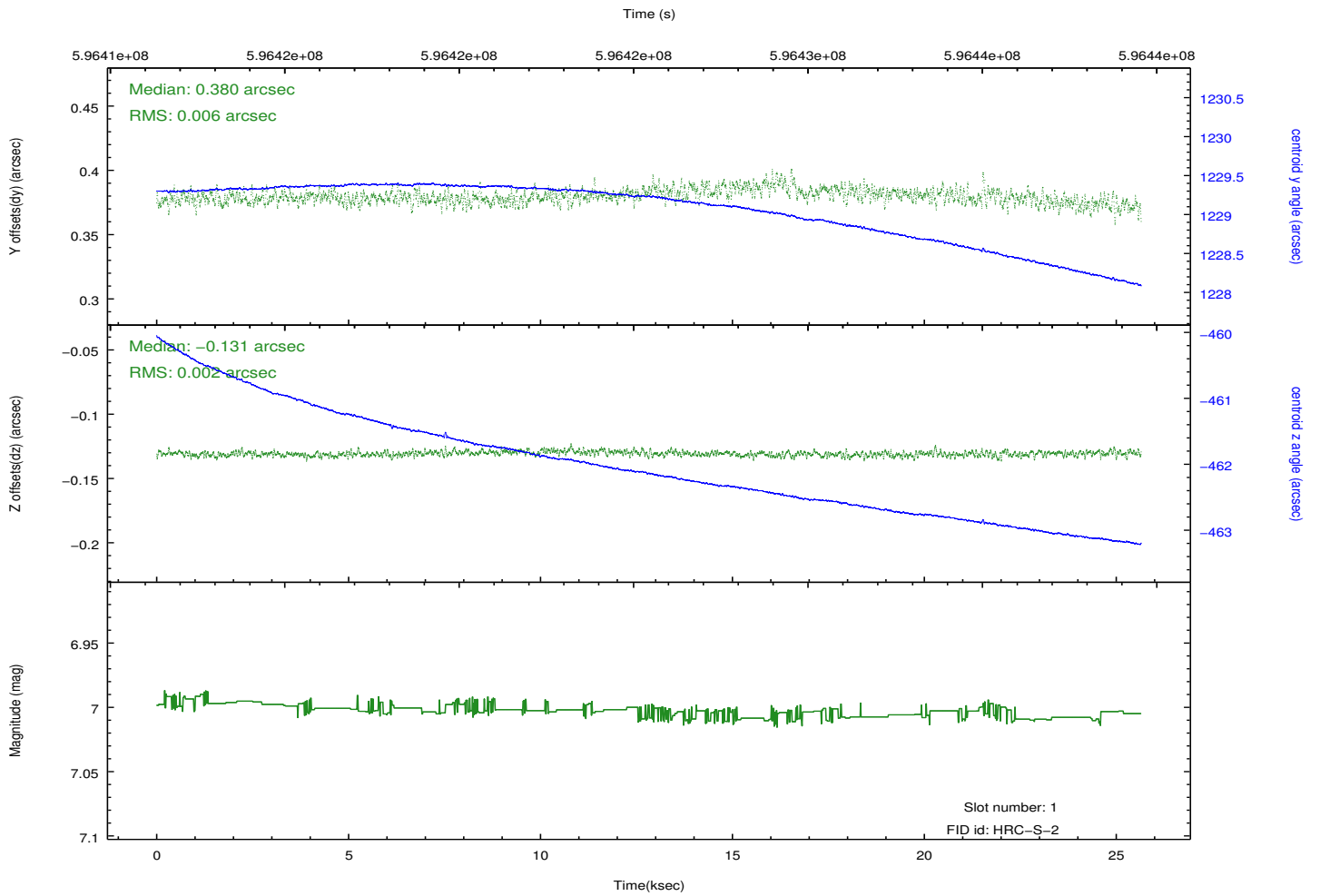
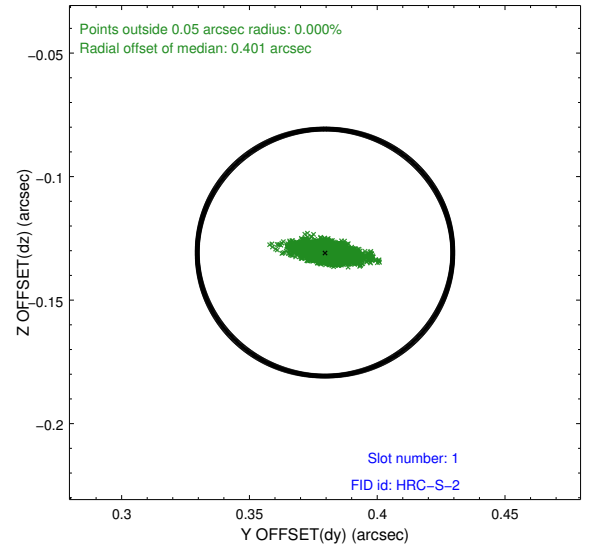
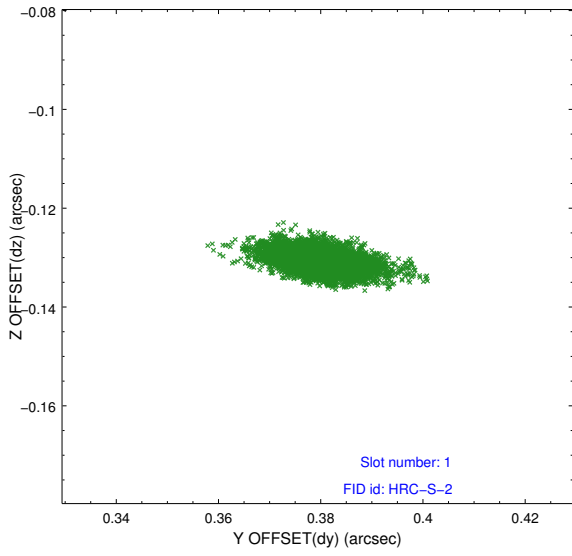


2.5 FID Slots

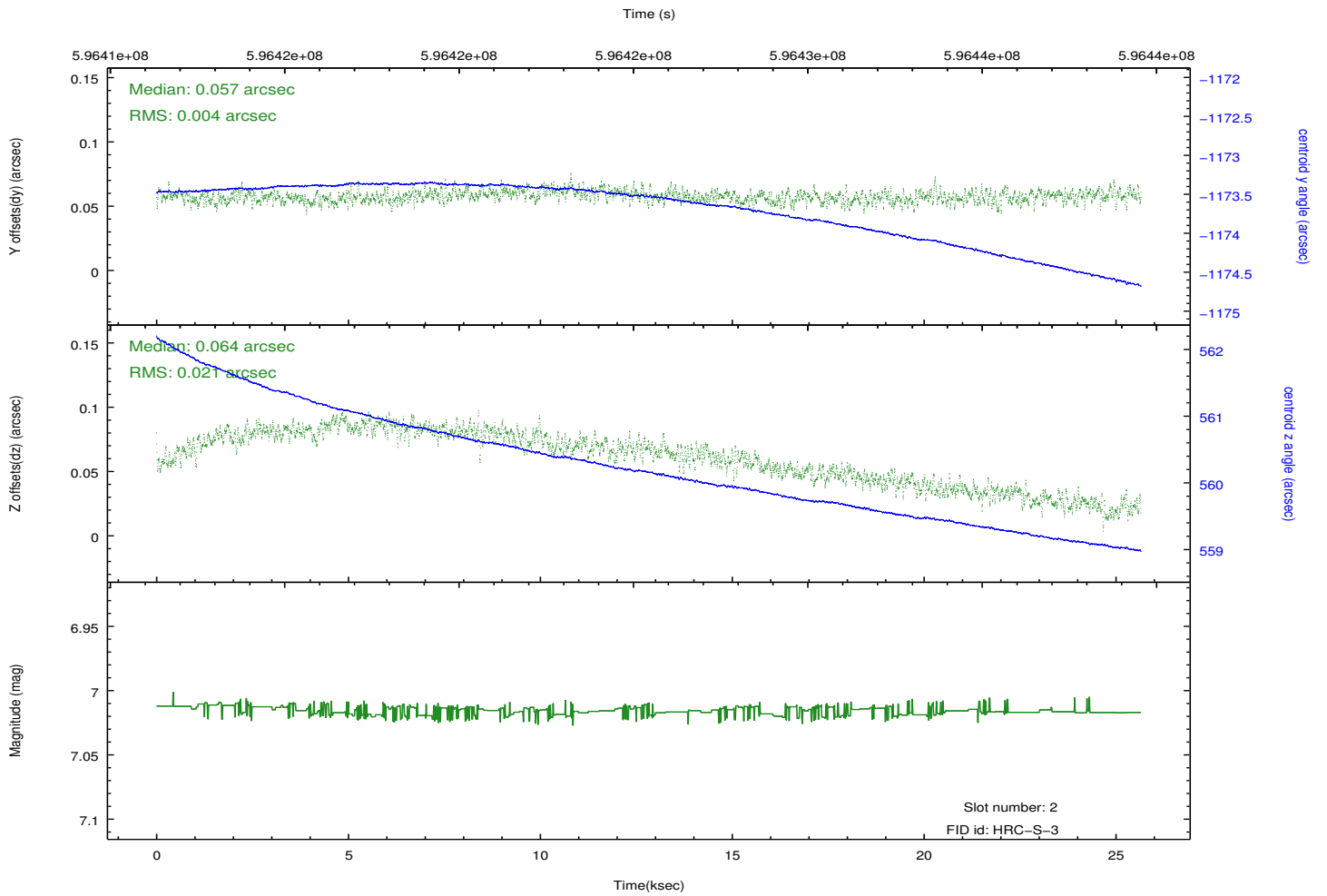
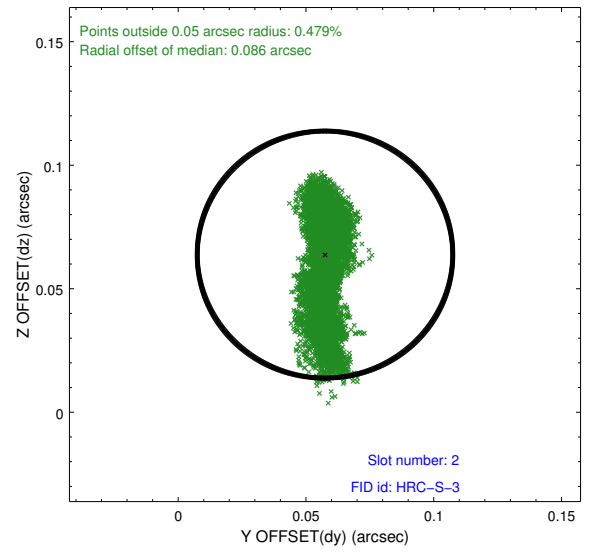
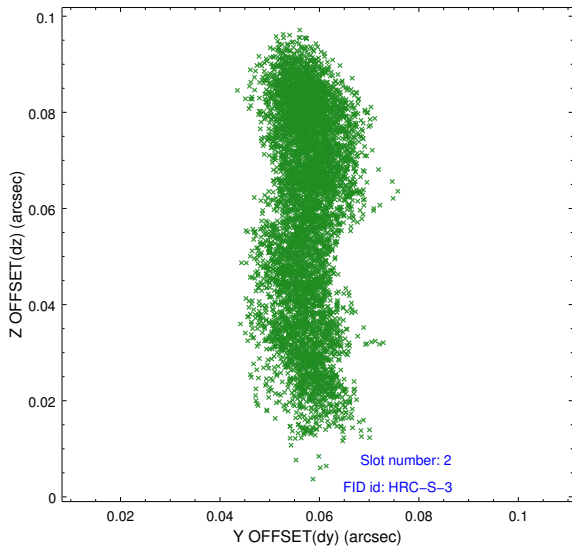
2.5.1 Slot 0



2.5.2 Slot 1

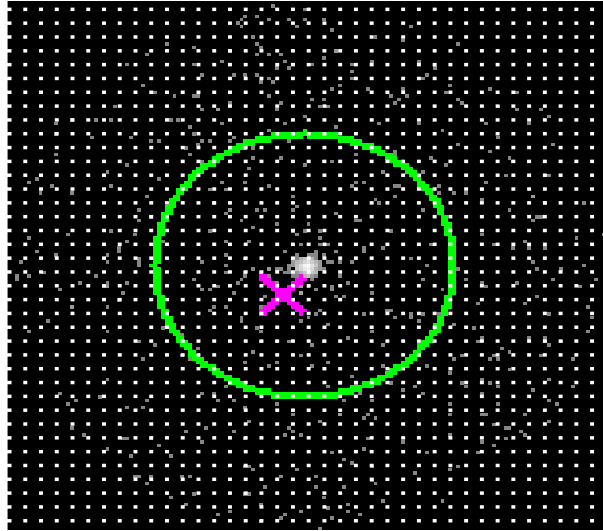


2.5.3 Slot 2

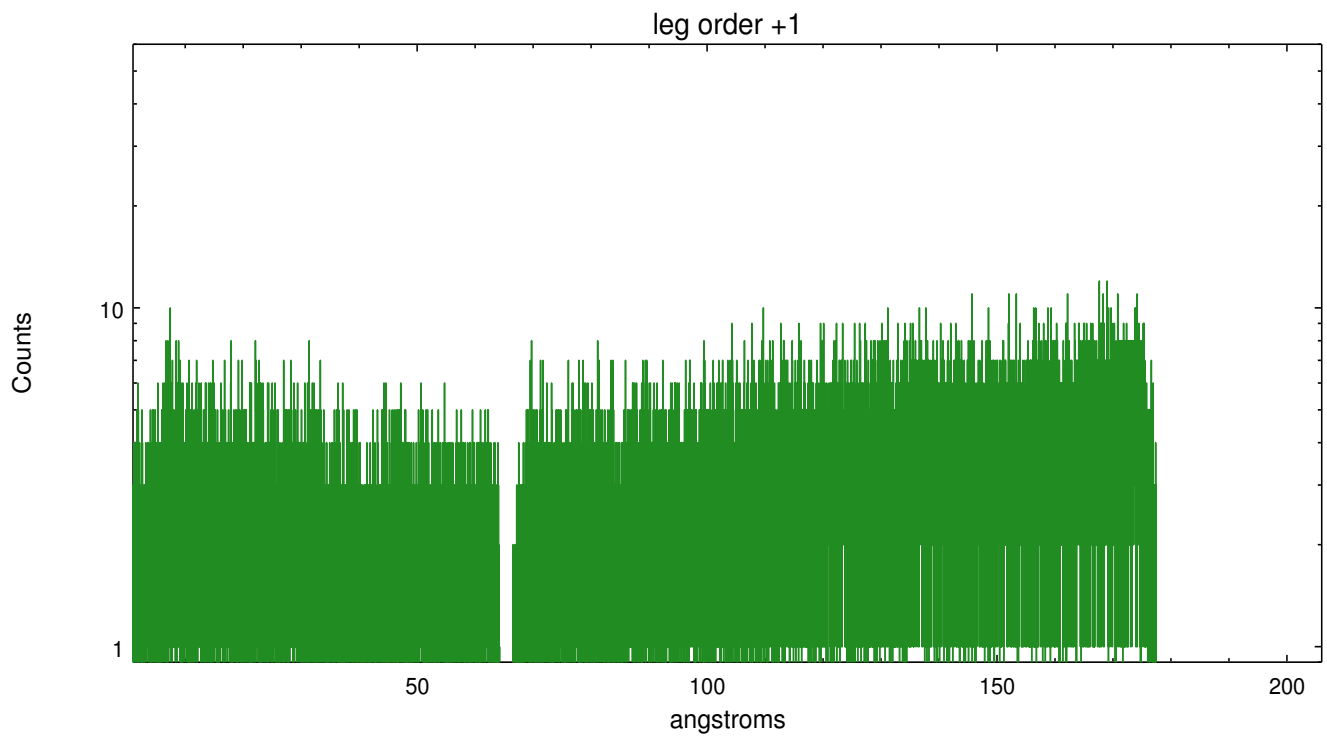
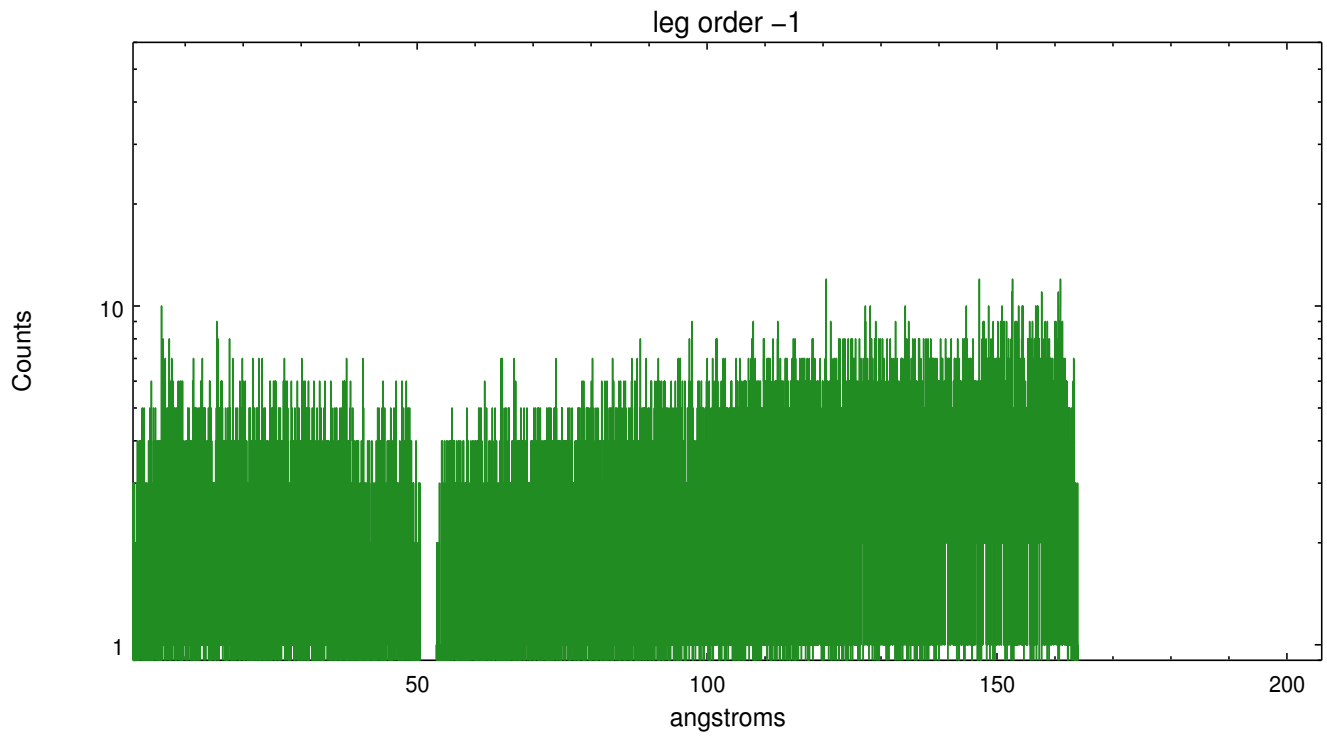


3 Gratings

3.1 LETG Arm



LETG Zero Order



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2016.11.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	25.650882730603

A.2 Comments