

V&V Reference Report

L2 ASCDS Version : 10.5.1.1

Observation 19016 - L2 Version 1
Chandra X-Ray Center

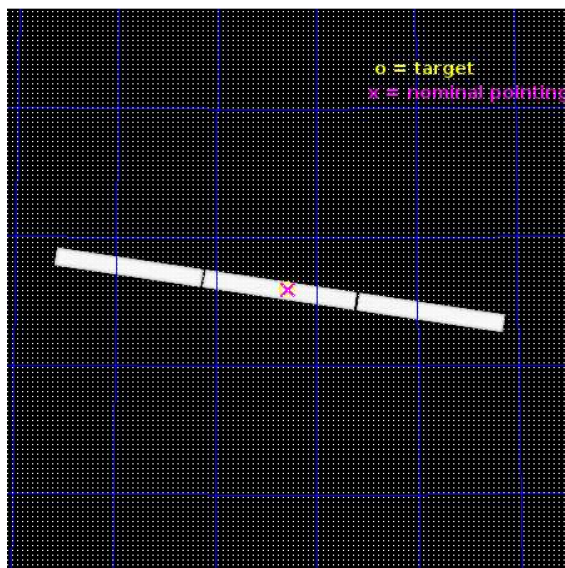
L2 Processing Date : Oct 17 2016

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
2.5	FID Slots	13
2.5.1	Slot 0	13
2.5.2	Slot 1	14
2.5.3	Slot 2	15
3	Gratings	16
3.1	LETG Arm	16
A	Summary	18
A.1	Status	18
A.2	Comments	18

1 Front

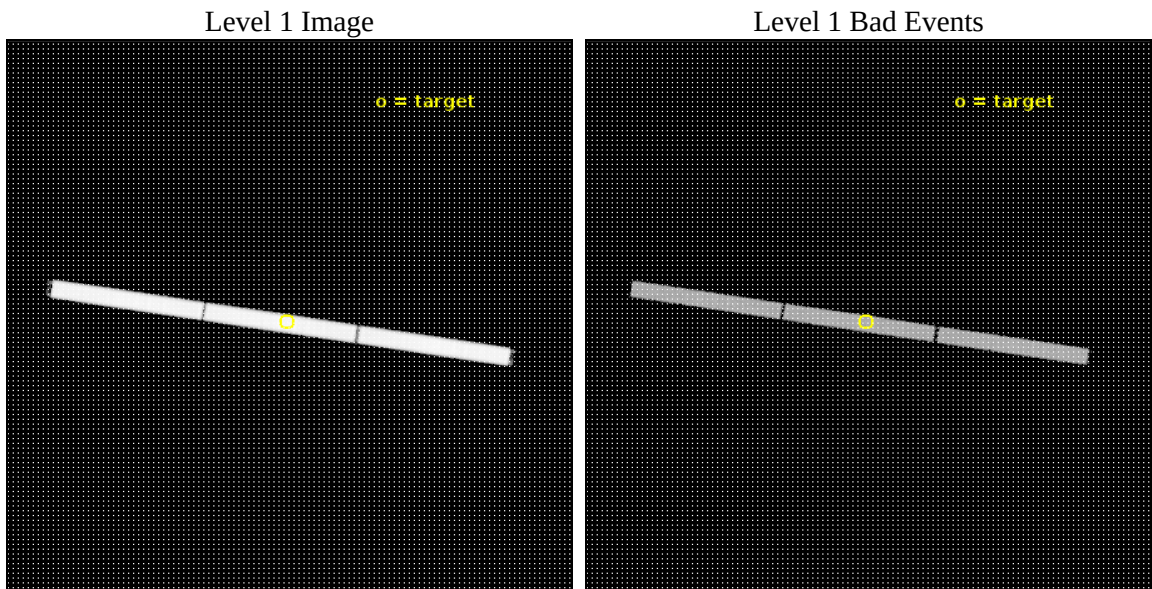
seq_num	300398	Sequence number
obs_id	19016	Observation id
title	EUV Emission from Accreting White Dwarfs in Outburst: A Pathfinder for the Great Observatories Accretion Legacy Survey	Proposal title
observer	Christian Knigge	Principal investigator
object	RX AND	Source name
ra_targ	16.147917	Observer's specified target RA [deg]
dec_targ	41.299389	Observer's specified target Dec [deg]
ra_nom	16.140169359502	Nominal RA [deg]
dec_nom	41.293214045273	Nominal Dec [deg]
roll_nom	188.76497968839	Nominal Roll [deg]
revision	1	Processing version of data
ontime	24142.851393342	[s]
livetime	23926.773115669	Ontime multiplied by DTCOR
l2events	1896922	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	25000.000000	[s] Scheduled observation exposure time
ascdsver	10.5.1.1	Processing system revision	ontime	24142.851393342	[s]
caldbver	4.7.2	 	l1events	2538164	Number of level 1 events
date	2016-10-16T16:47:52	Date and time of file creation	tgmethod	CUSTOM	Method used to create src1a file
revision	1	Processing version of data	zo_pos	(32603.00, 32934.00)	src1a sky pixel position

2.1.3 Events

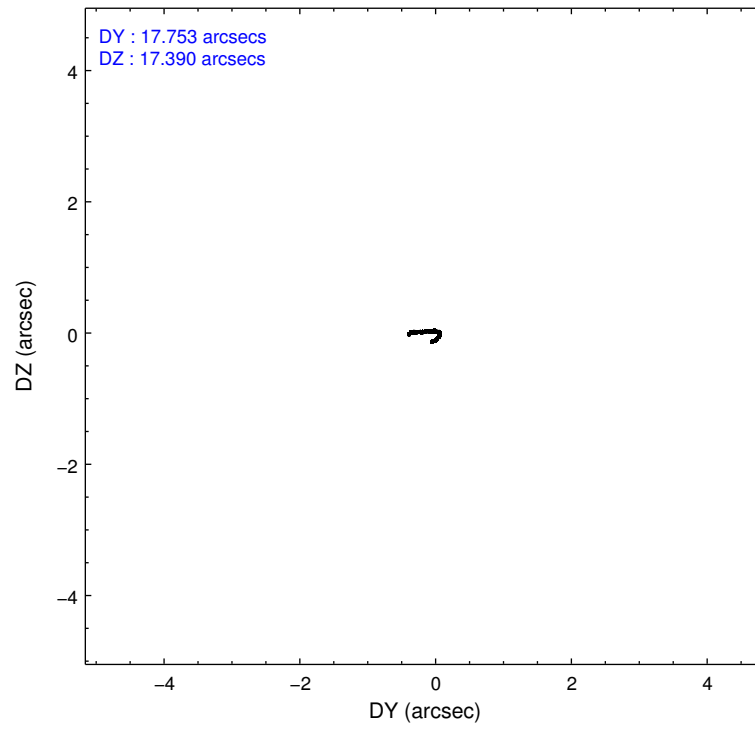
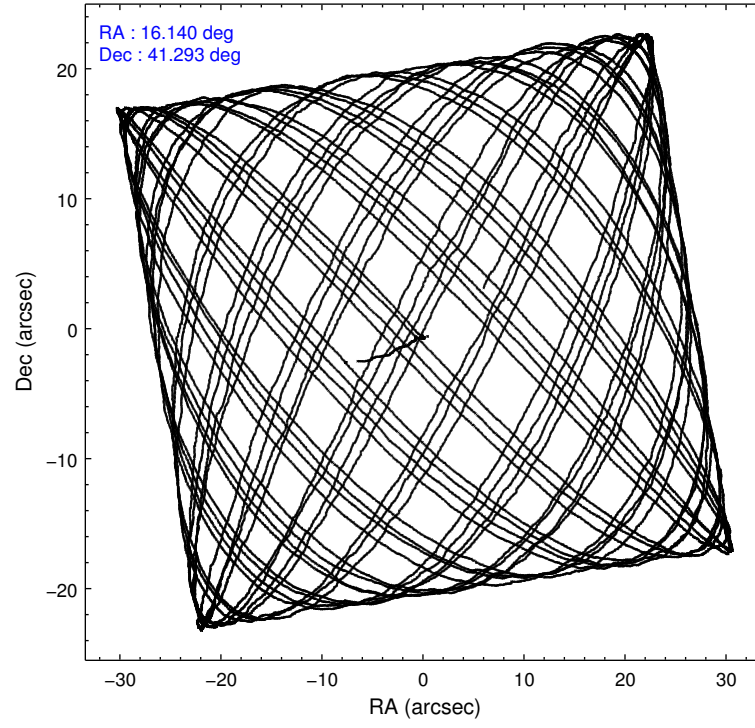
Level 1 Events

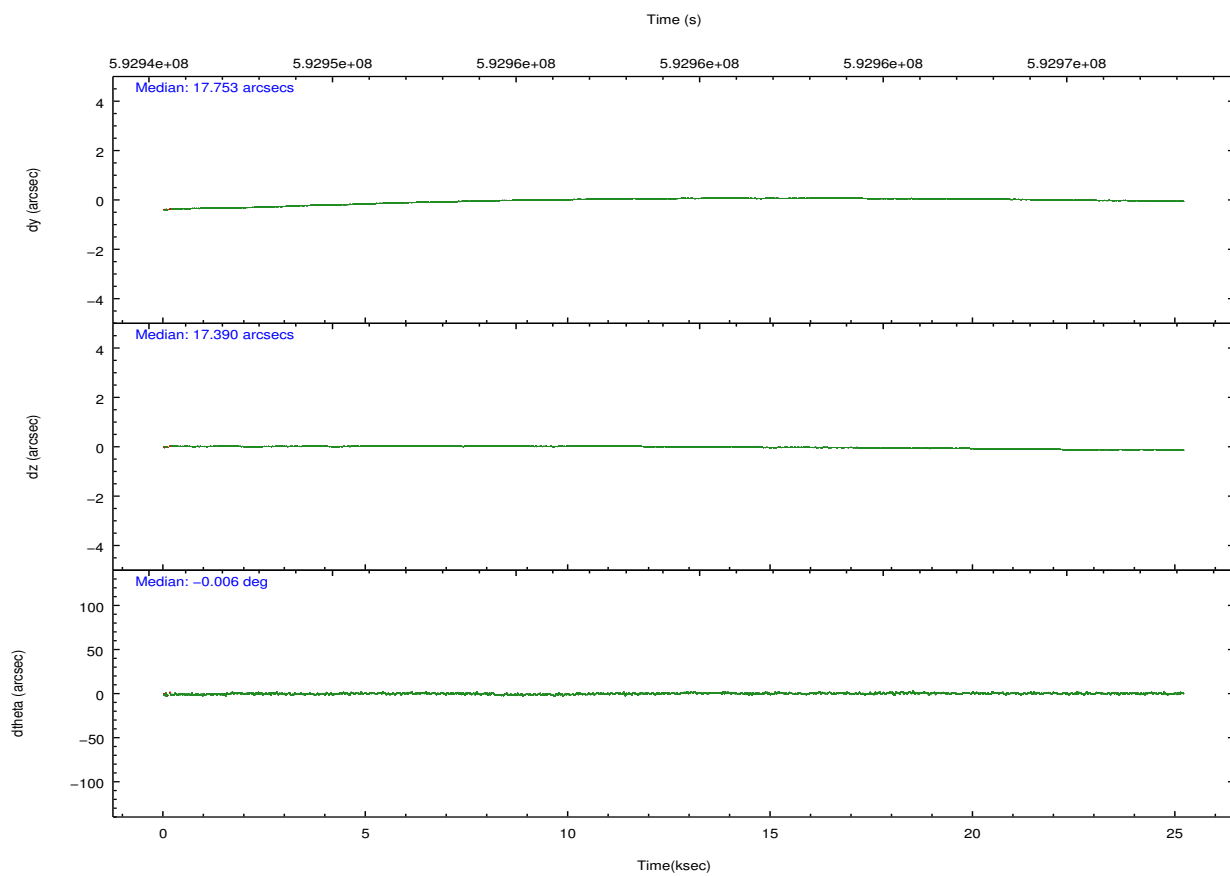
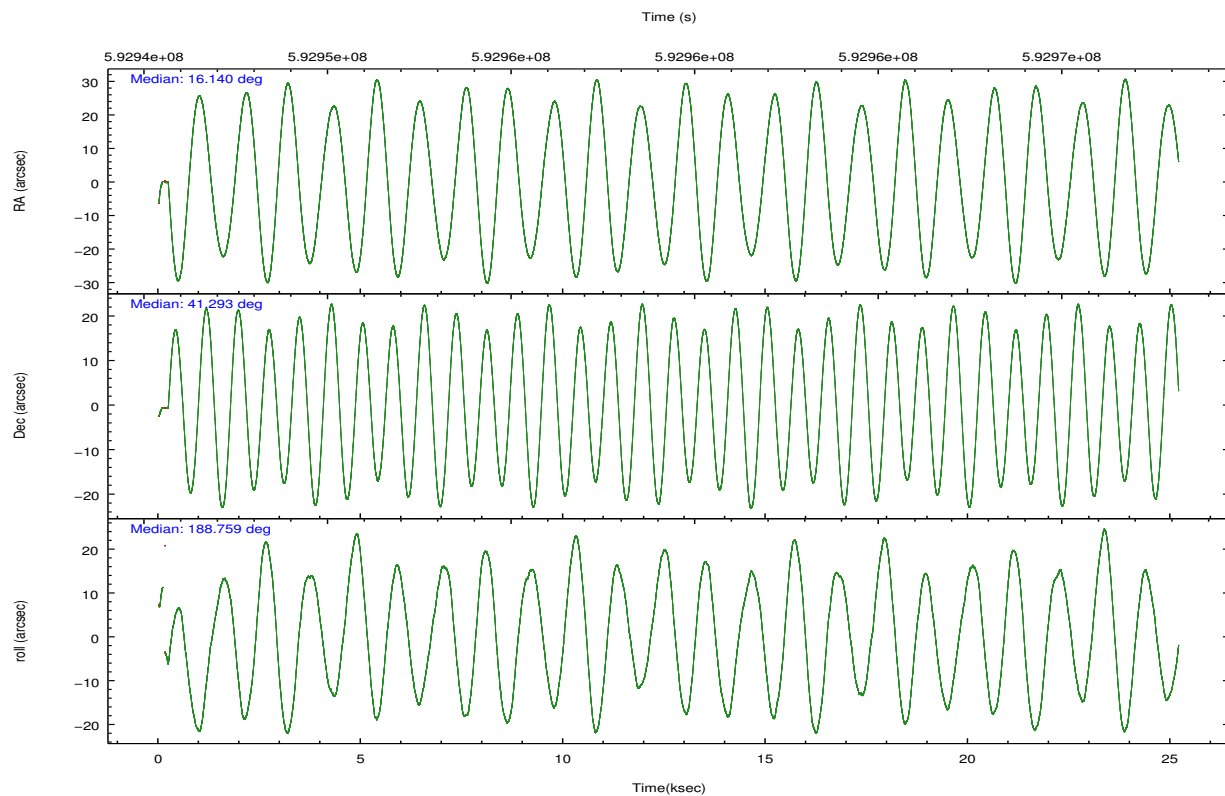
	segment 1	segment 2	segment 3
level 1 events	850287	842009	845868
rejected events	63052	62625	62849
rejected %	7%	7%	7%

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	16.168958	16.14016935950245			
[deg] Pointing Dec	41.312302	41.29321404527344			
[deg] Pointing Roll	188.678651	188.7649796883939			
[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)	592946906.184000	592946227.55326			
Observation start date	2016-10-15T19:27:18	2016-10-15T19:17:07			
[s] Observation end time (MET)	592971906.184000	592973155.84231			
Observation end date	2016-10-16T02:23:58	2016-10-16T02:45:55			

2.3 Aspect



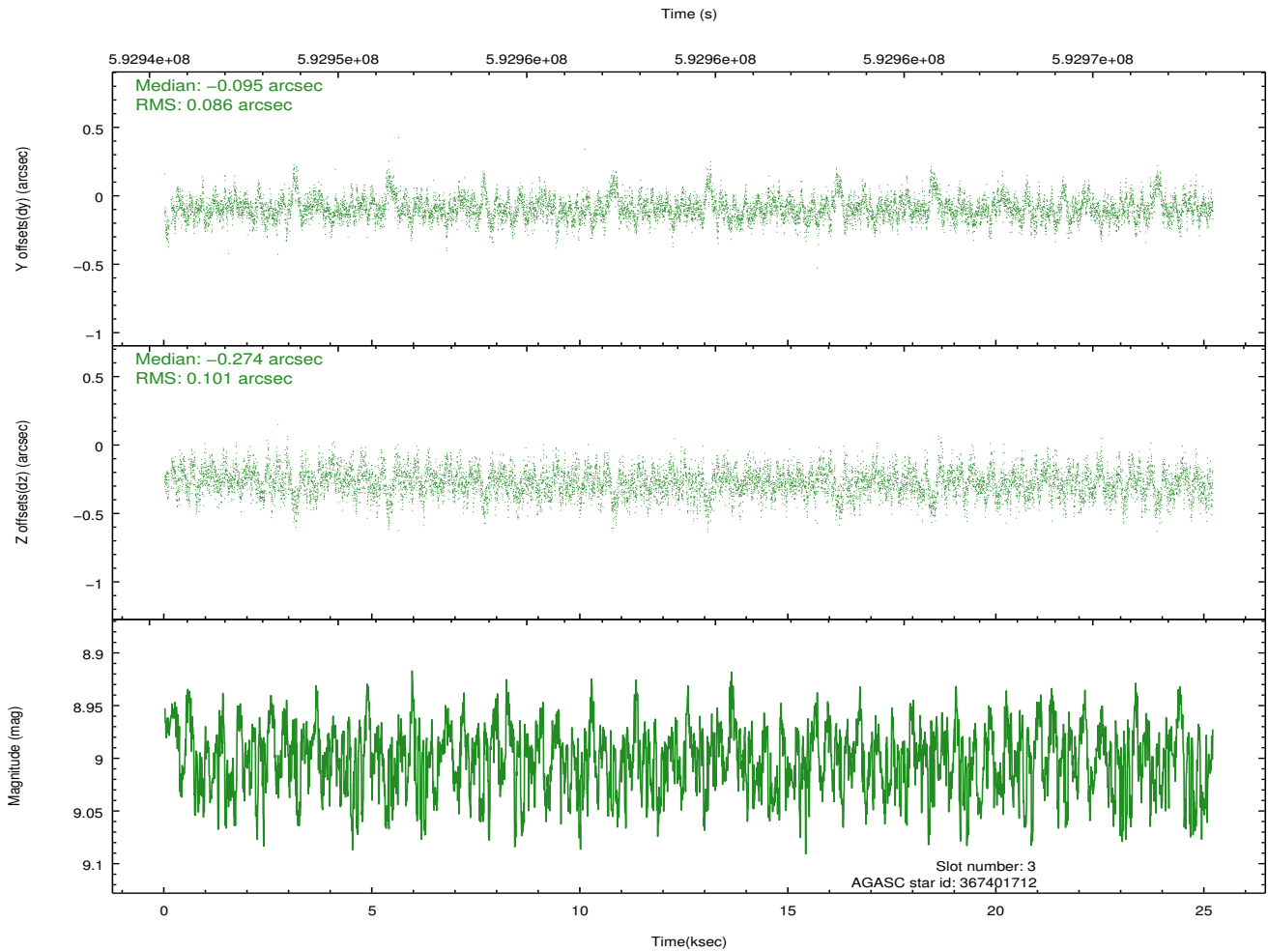
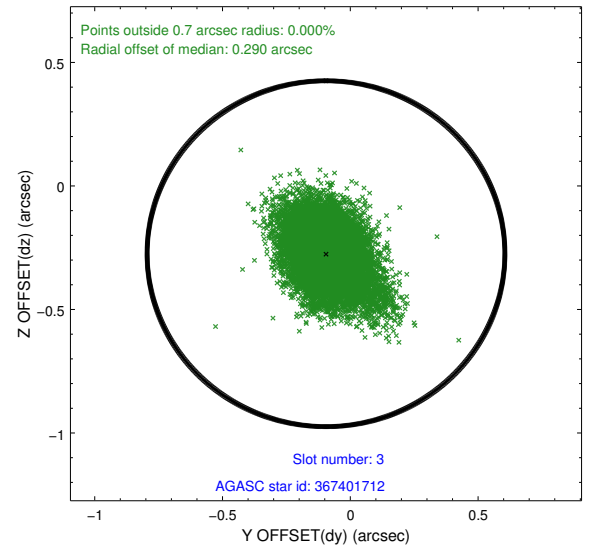
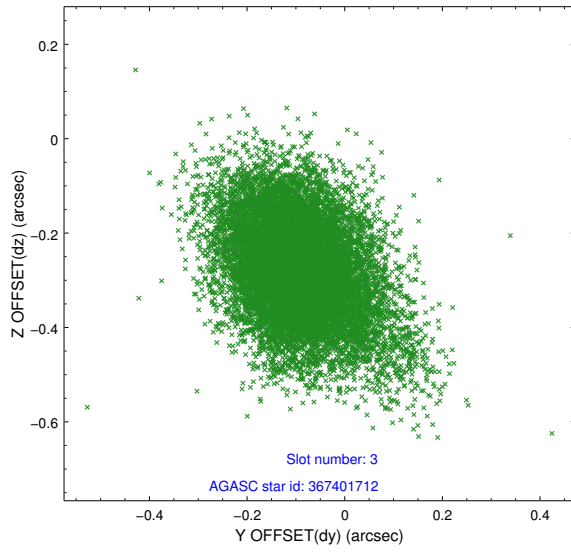


Slot Statistics

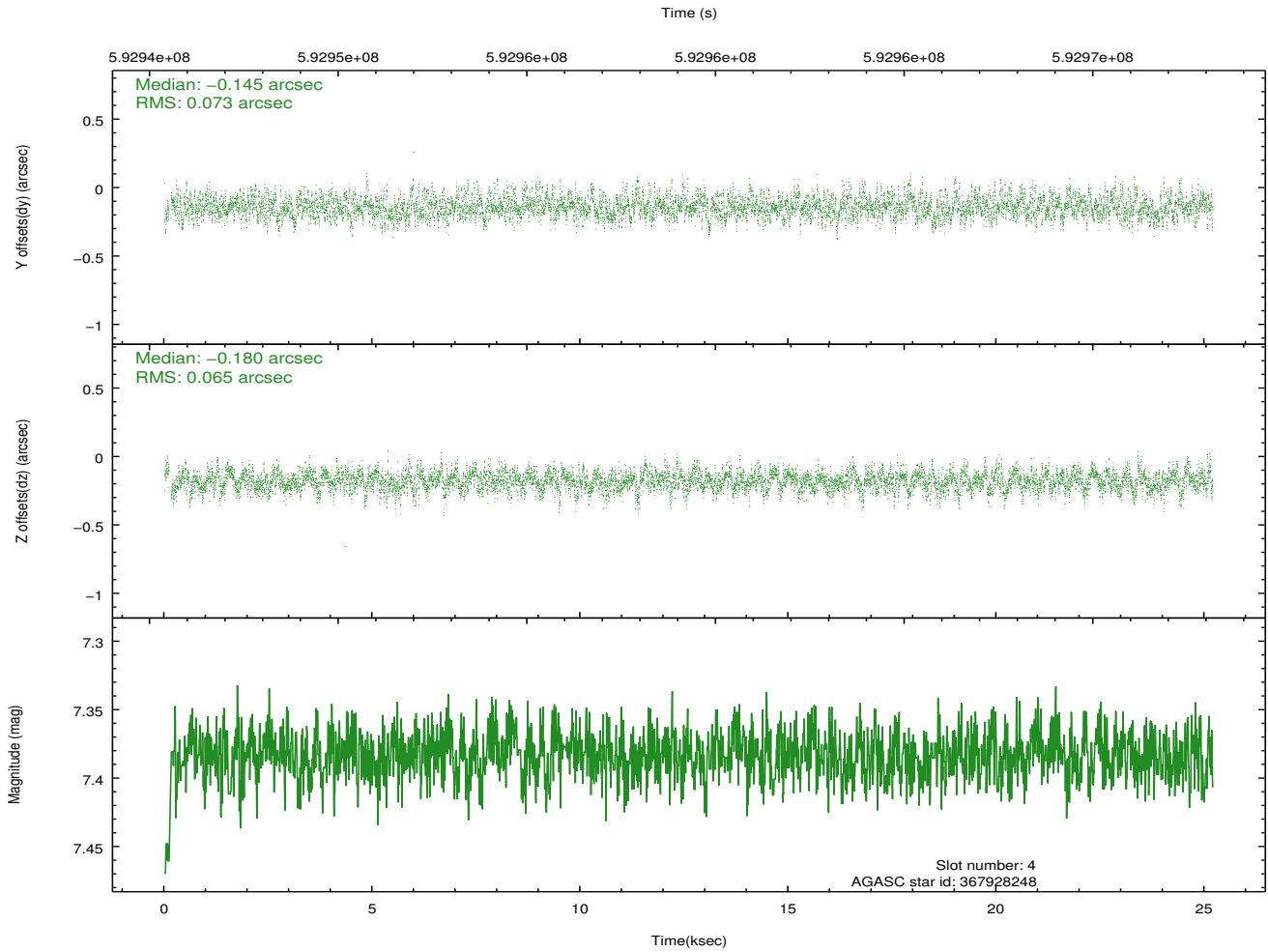
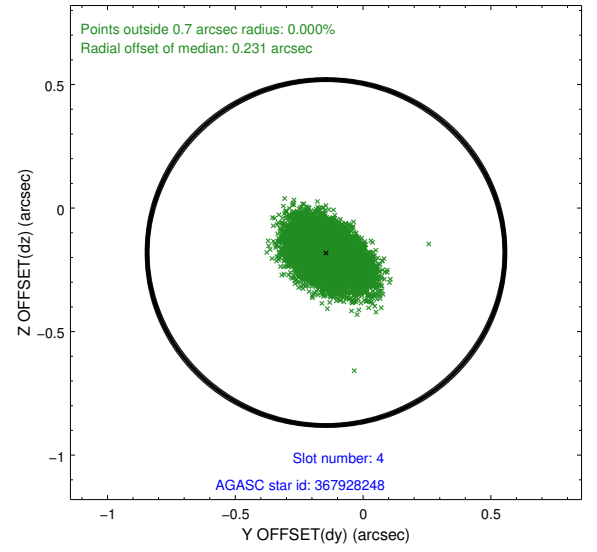
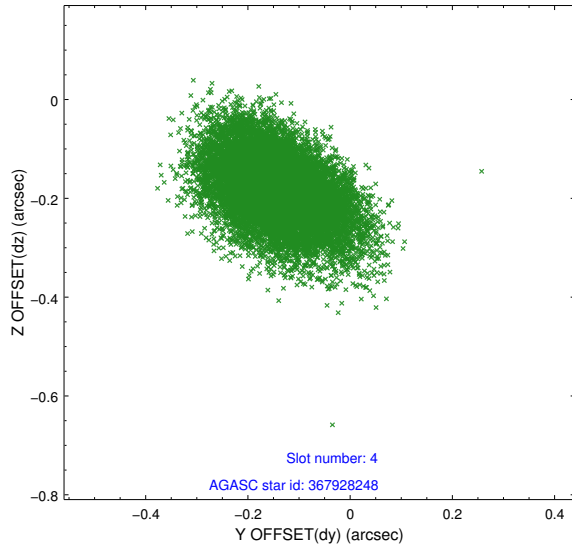
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		HRC-S-2	7.05	6132	0.181	-0.214	0.011	0.019	0.000000	0.000000	1227.63	-458.94
1	FID		HRC-S-3	7.06	6132	-0.085	-0.079	0.007	0.014	0.000000	0.000000	-1174.89	563.18
2	FID		HRC-S-4	7.02	6133	0.309	-0.003	0.009	0.015	0.000000	0.000000	1226.10	566.10
3	GUIDE	used	367401712	9.00	12253	-0.095	-0.274	0.136	0.235	16.520262	40.963534	-753.25	1384.24
4	GUIDE	used	367928248	7.38	12262	-0.145	-0.180	0.103	0.170	16.869743	41.258875	-1848.68	470.30
5	GUIDE	used	367929864	7.68	12265	0.151	0.449	0.113	0.189	16.944832	41.513261	-2177.81	-407.97
6	GUIDE	used	367931880	8.87	12249	0.075	0.007	0.154	0.269	15.245782	41.804238	2180.34	-2136.72
7	MONITOR	unused		0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00

2.4 Star Slots

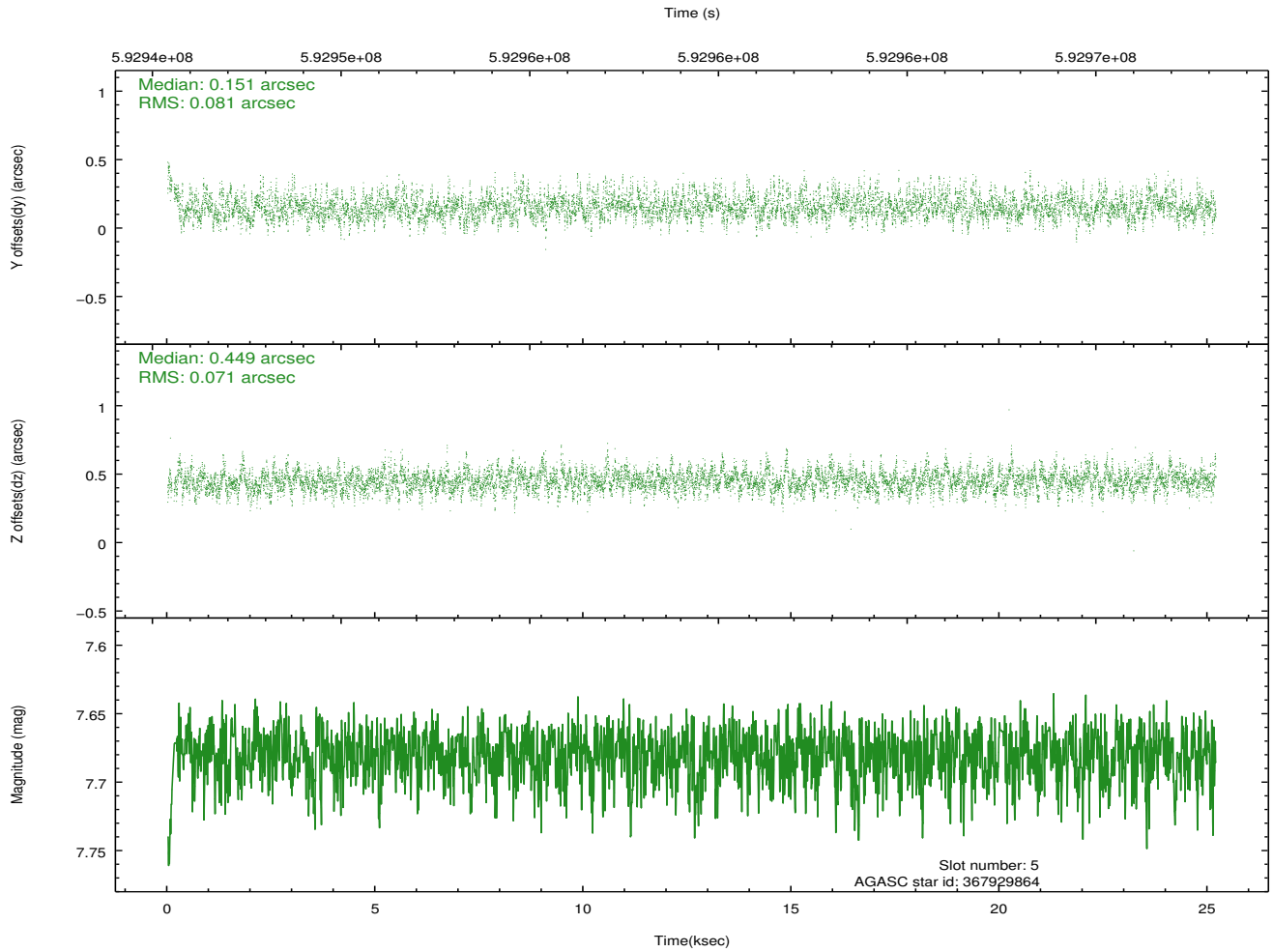
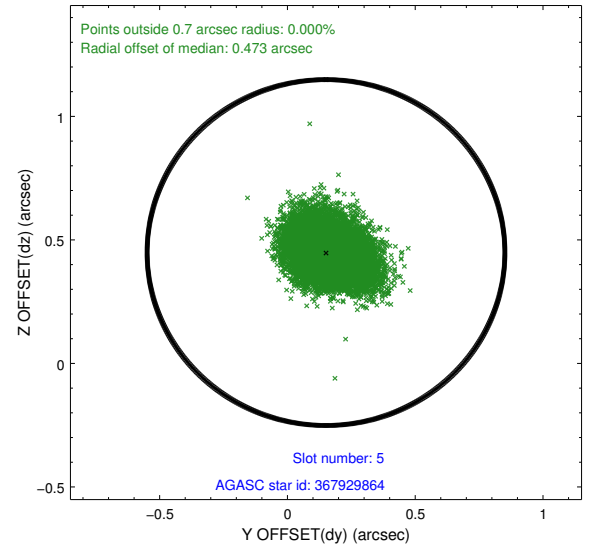
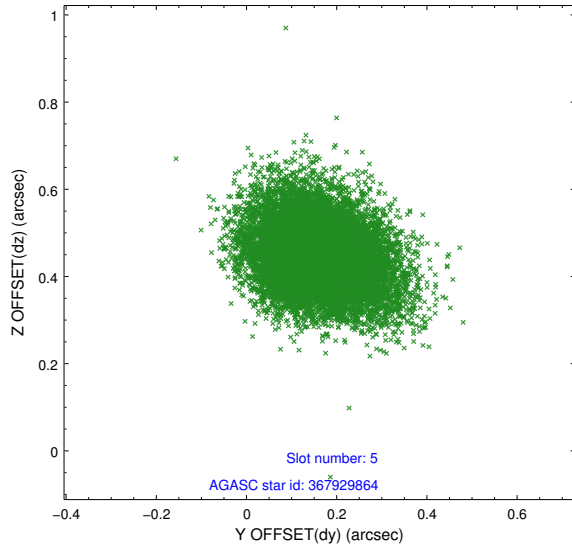
2.4.1 Slot 3



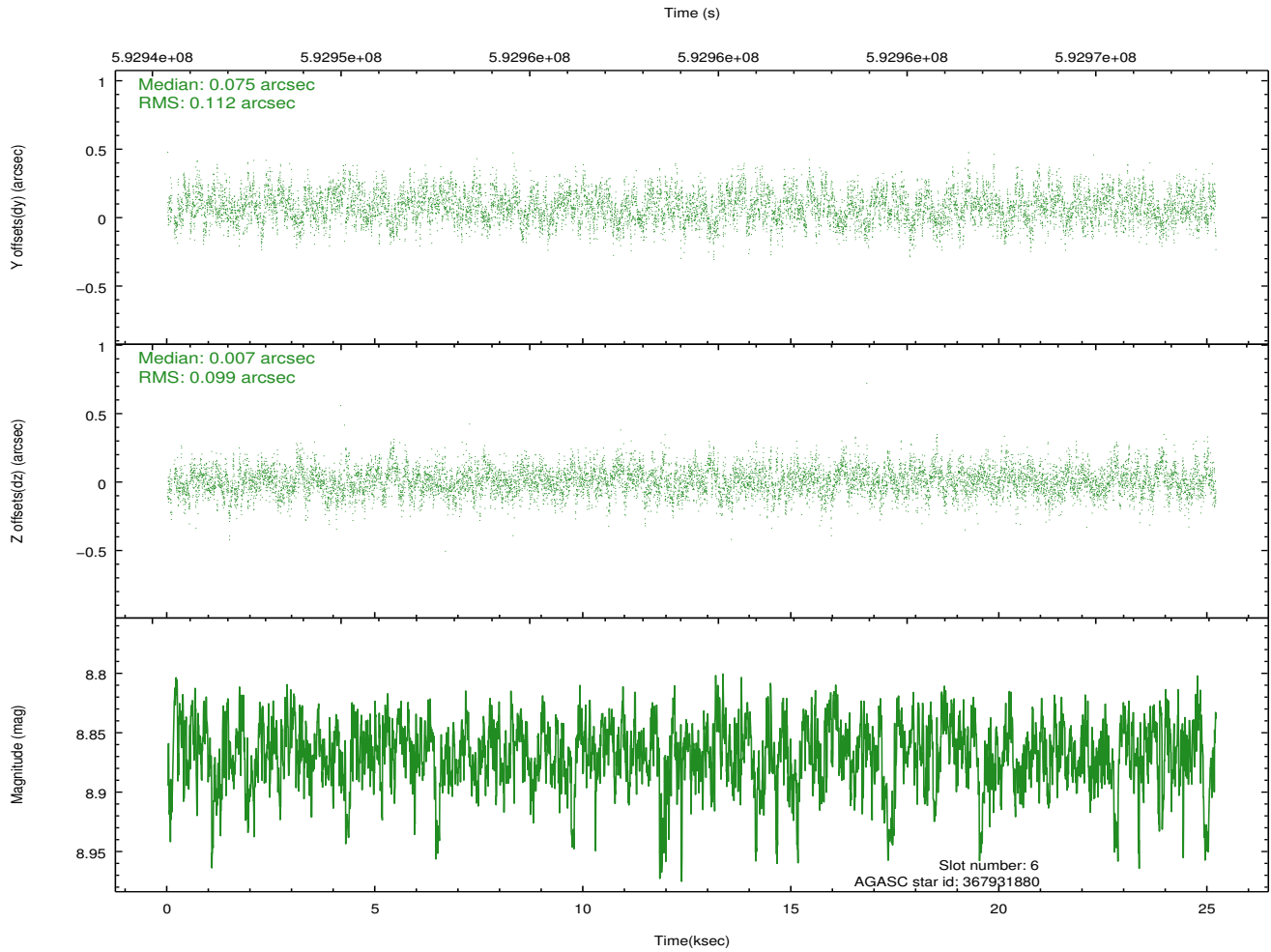
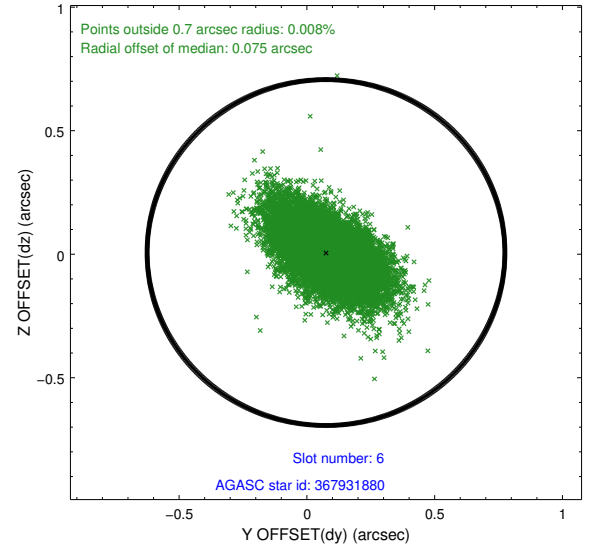
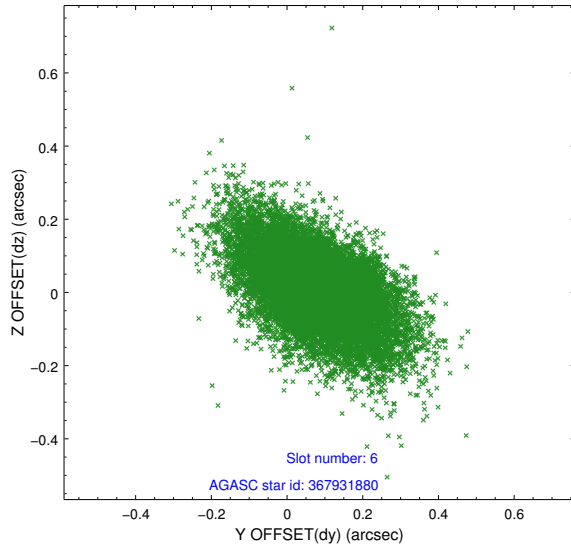
2.4.2 Slot 4



2.4.3 Slot 5

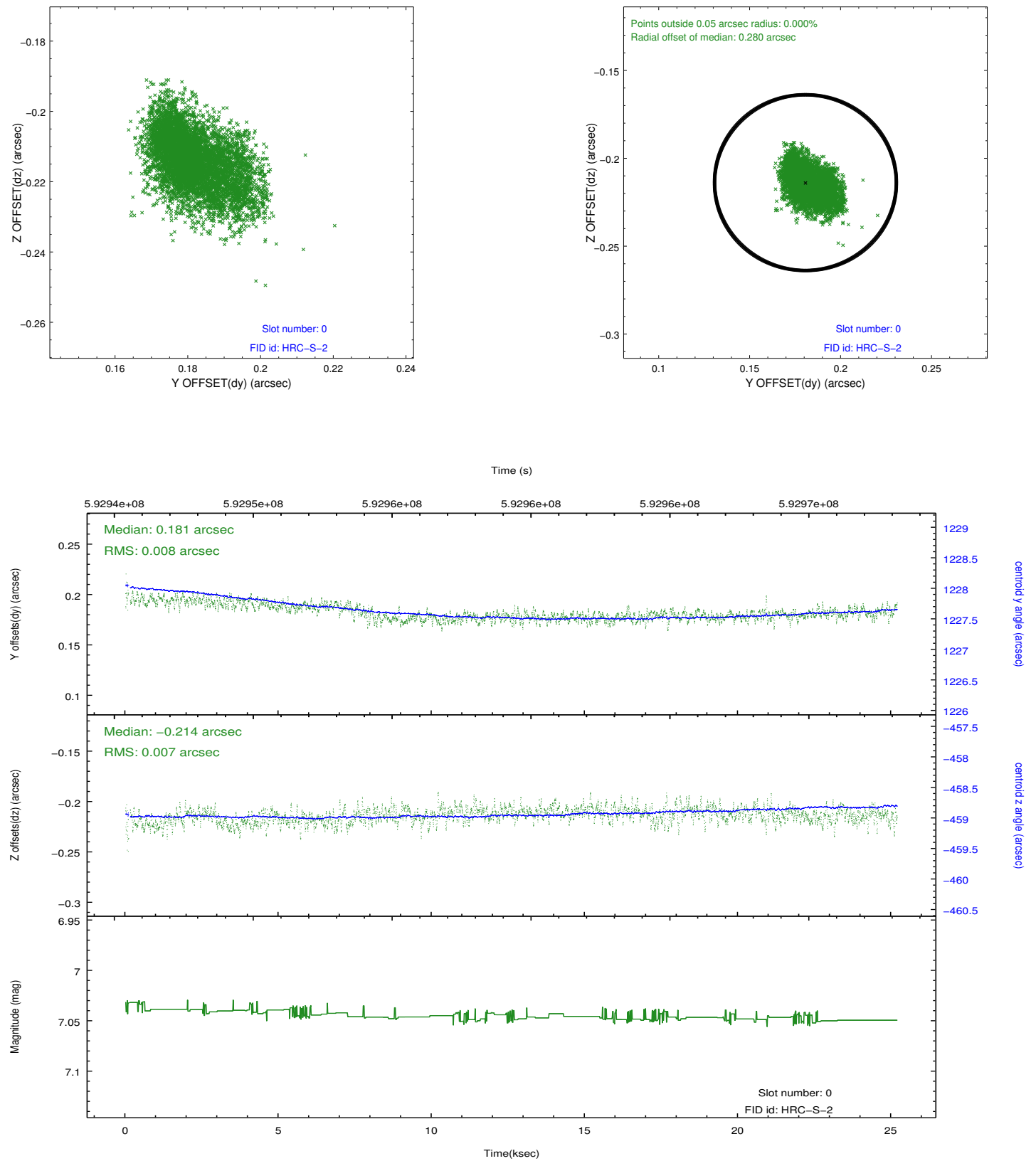


2.4.4 Slot 6

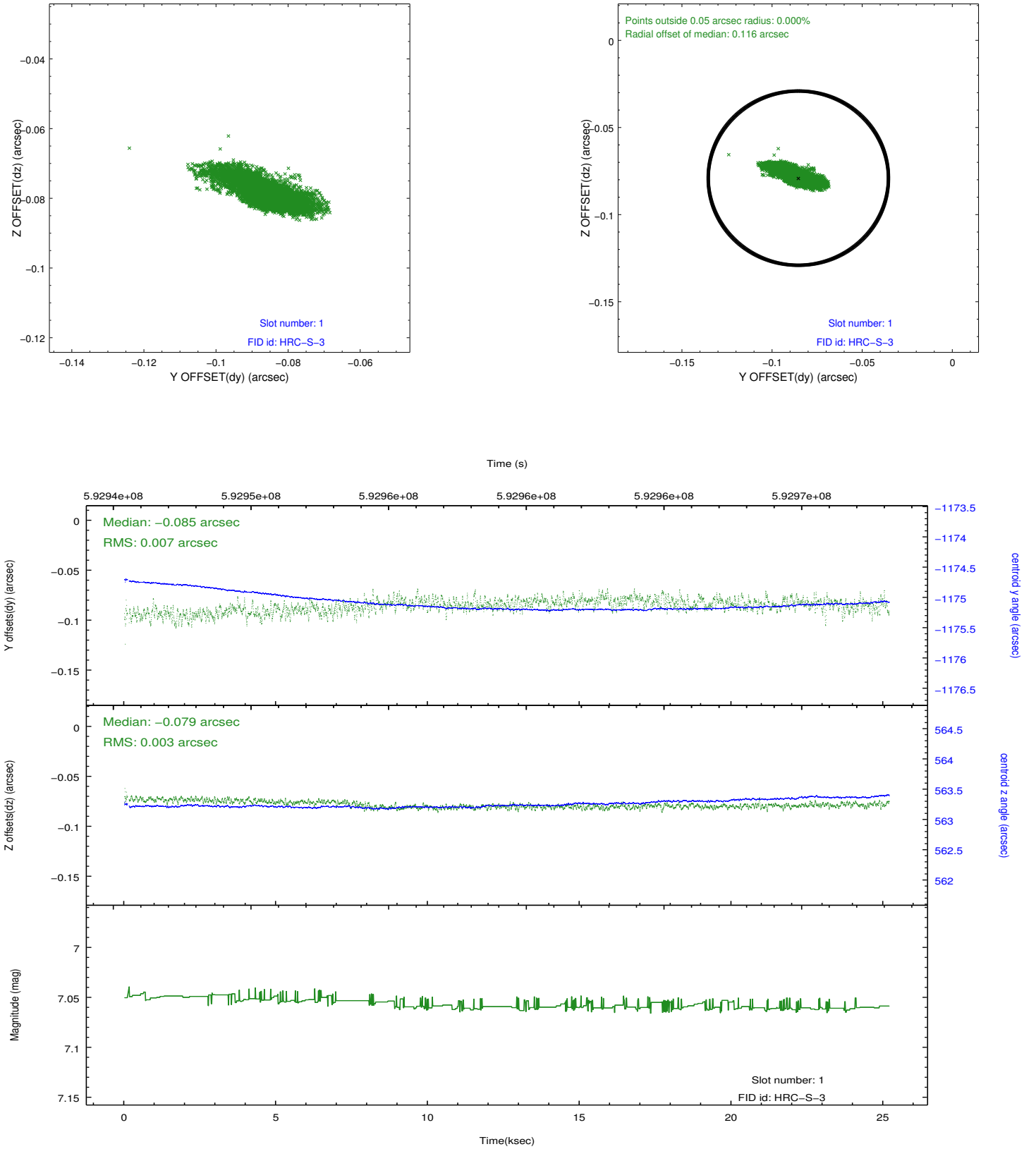


2.5 FID Slots

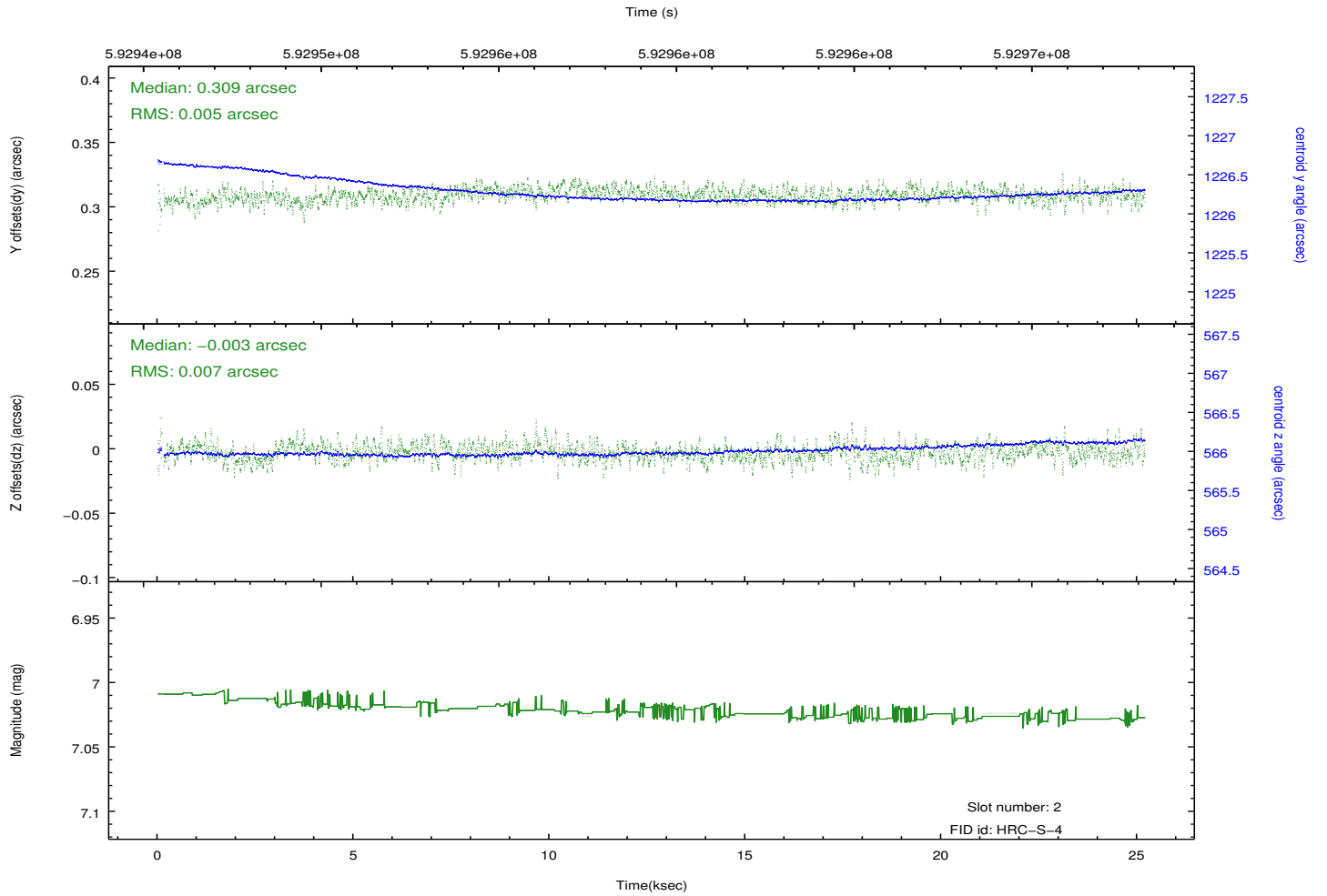
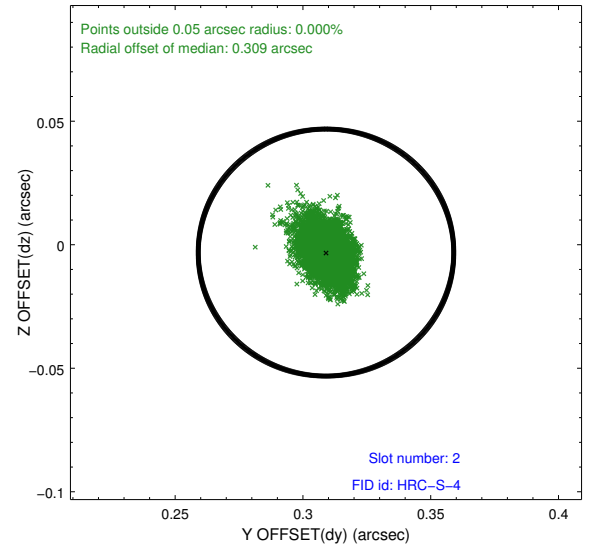
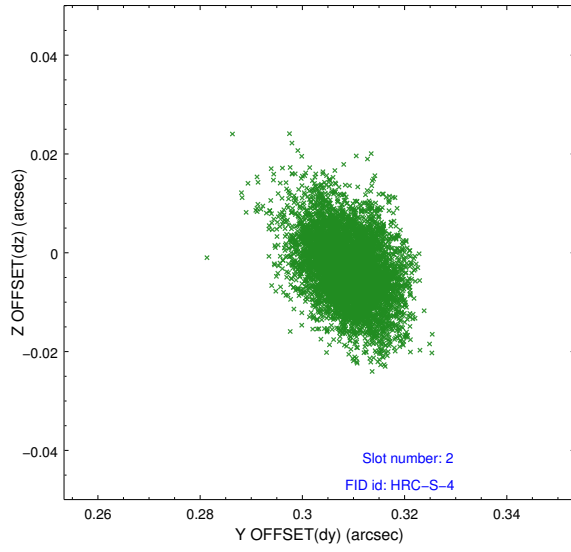
2.5.1 Slot 0



2.5.2 Slot 1

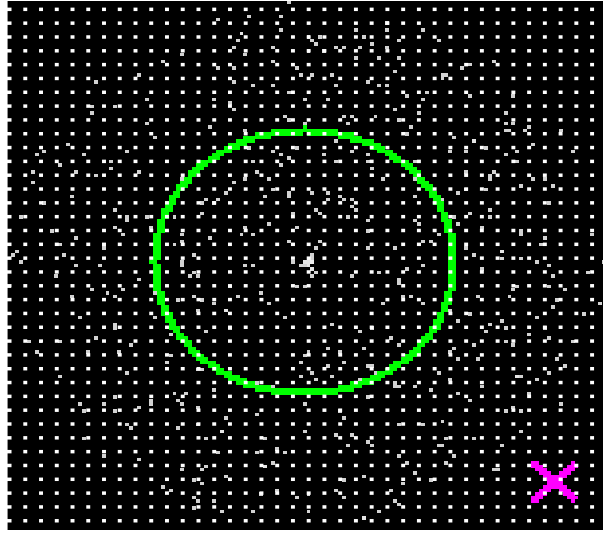


2.5.3 Slot 2

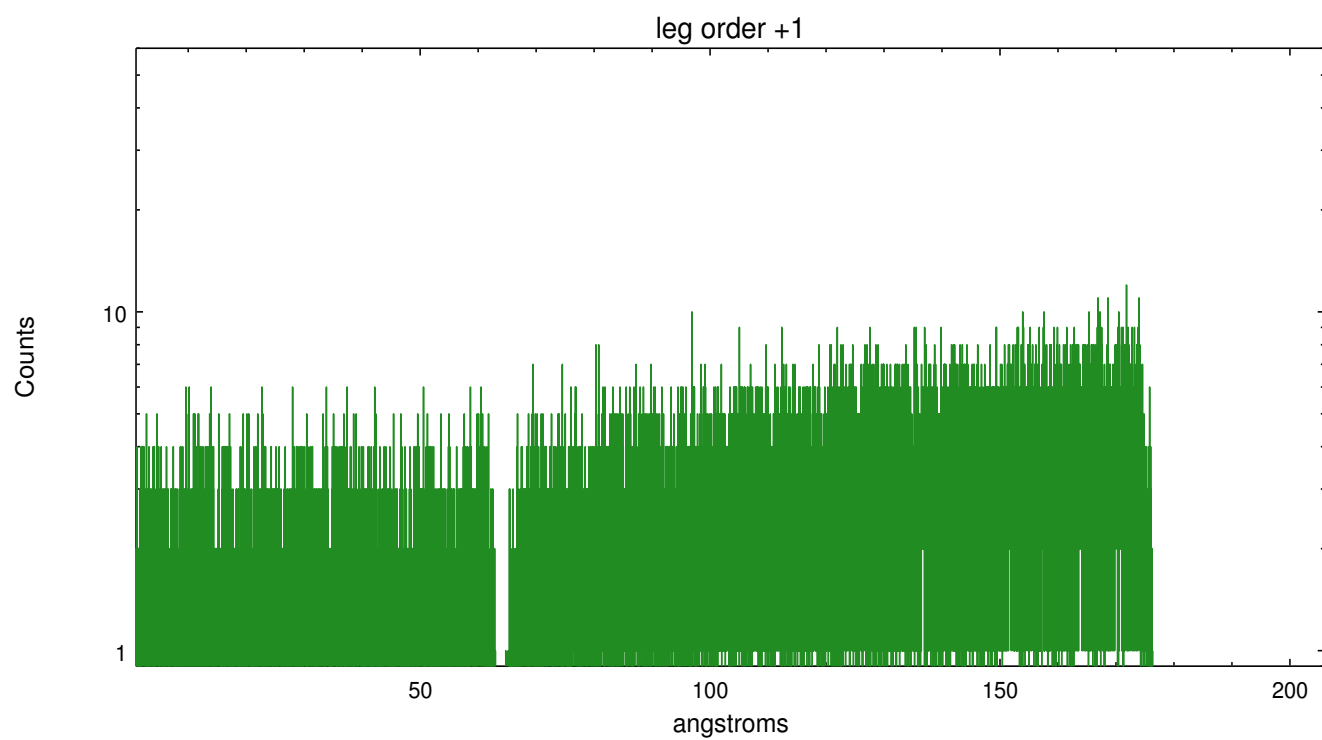
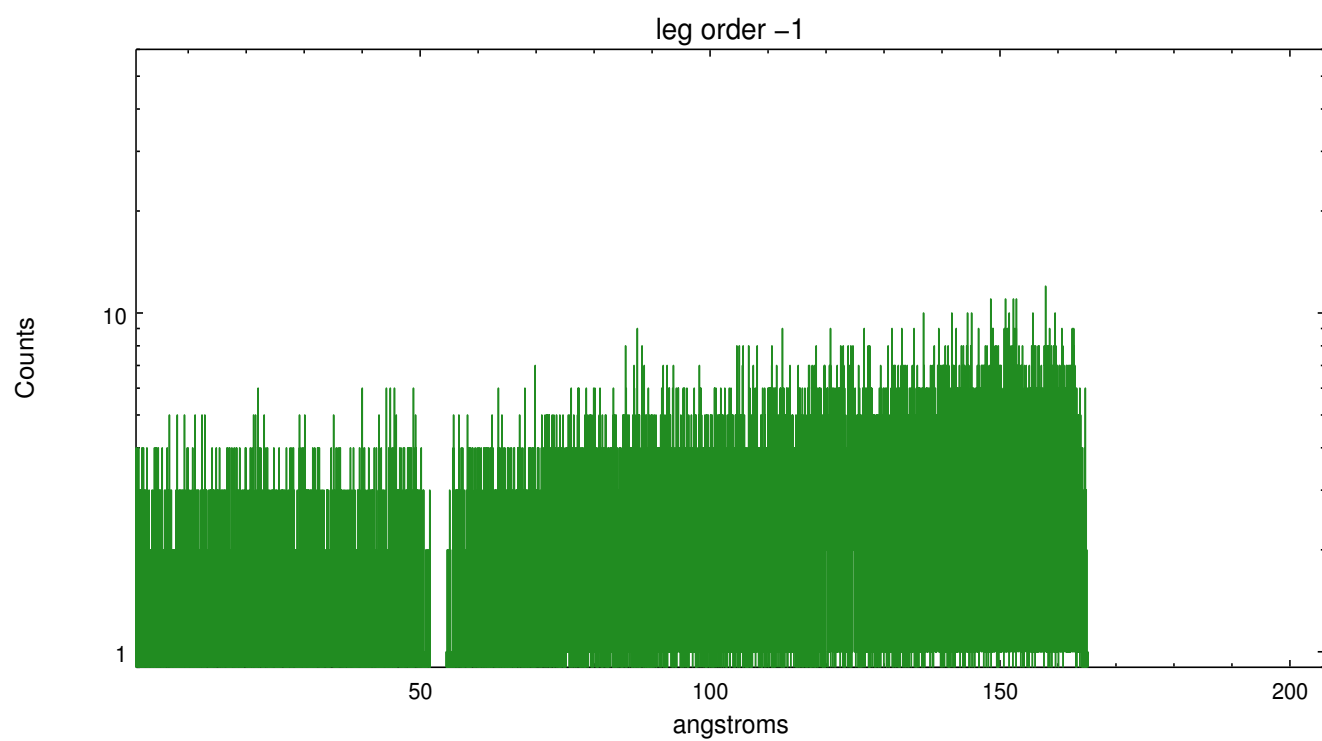


3 Gratings

3.1 LETG Arm



LETG Zero Order



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2016.10.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	24.142851393342

A.2 Comments

Due to corruption of the secondary science data during this observation, some instrument parameters have bogus values. The data in this observation have been inspected by the HRC team. PLEASE NOTE: All the event data in this observation are good. The short gaps in the GTI intervals can be eliminated (i.e., use the first START and last STOP). THE DTF values during this observation can be estimated by dropping all the low values and averaging the remaining values near 1.0.

===

Standard software processing technique using the tools `tgdetect` and `findzo` failed to determine an accurate position for the zeroth order for this observation. The source is somewhat extended and asymmetric. The zeroth order position was specified manually to be the approximate center of the observed emission. The zeroth order position for this processing (1h 04m 35.6s, +41d 17m 57.4s) is offset from the coordinates of the target. For grating analysis of localized X-ray emission within the extended emission, the investigator will need to extract one or more dispersed spectra using user-defined zeroth order positions for all positions of interest.

===

Target is monitored optically in slot 7.