

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 20036 - L2 Version 1
Chandra X-Ray Center

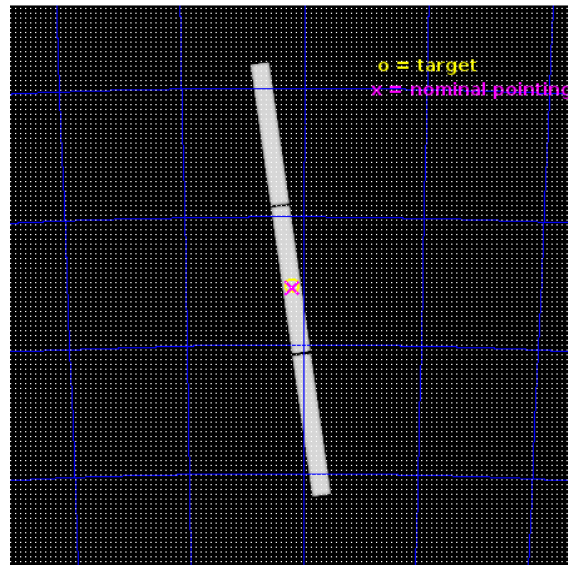
L2 Processing Date : Mar 14 2017

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1 Front

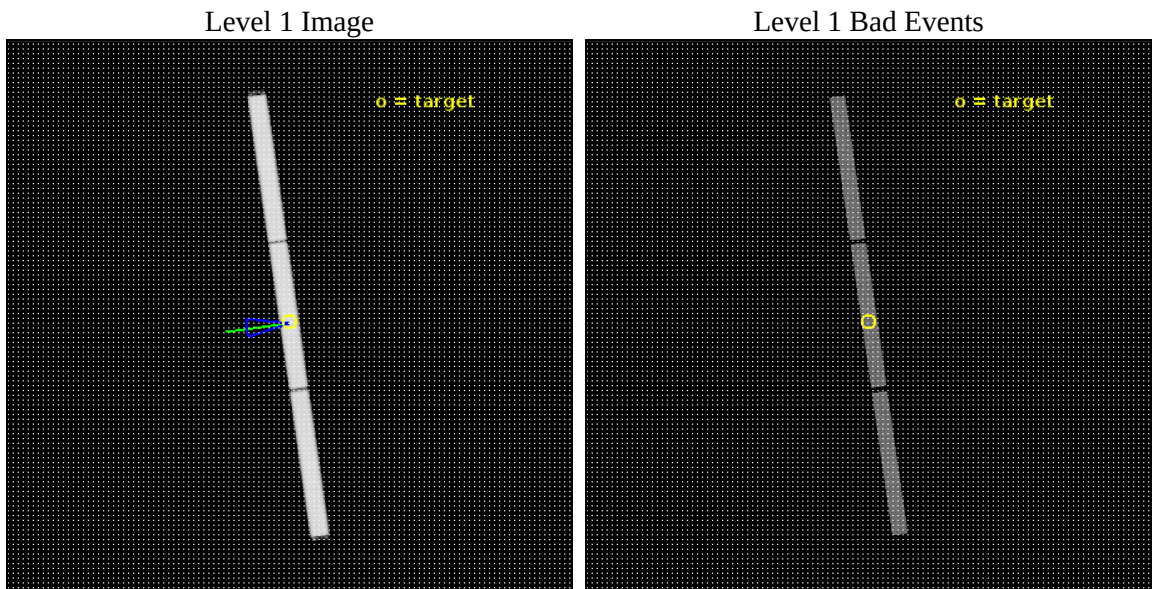
seq_num	502940	Sequence number
obs_id	20036	Observation id
title	Chandra Cycle 18 Spatial and Spectral Monitoring of SN 1987A	Propo
observer	David Burrows	Principal investigator
object	SNR 1987A	Source name
ra_targ	83.866667	Observer's specified target RA [deg]
dec_targ	-69.26975	Observer's specified target Dec [deg]
ra_nom	83.879369205091	Nominal RA [deg]
dec_nom	-69.277641024012	Nominal Dec [deg]
roll_nom	262.07919664232	Nominal Roll [deg]
revision	1	Processing version of data
ontime	31157.183056116	[s]
livetime	30858.894003259	Ontime multiplied by DTCOR
l2events	2699073	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	31000.000000	[s] Scheduled observation exposure time
ascdsver	10.5.2	Processing system revision	ontime	31157.183056116	[s]
caldbver	4.7.3	 	l1events	3483900	Number of level 1 events
date	2017-03-14T15:33:36	Date and time of file creation	tgmethod	TGDETECT	Method used to create src1a file
revision	1	Processing version of data	zo_pos	(32895.52, 32983.79)	src1a sky pixel position

2.1.3 Events

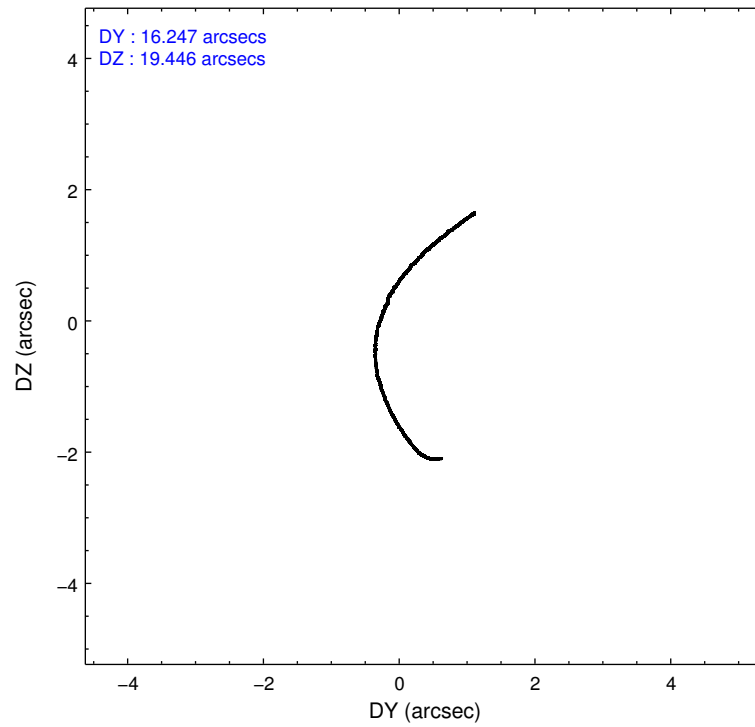
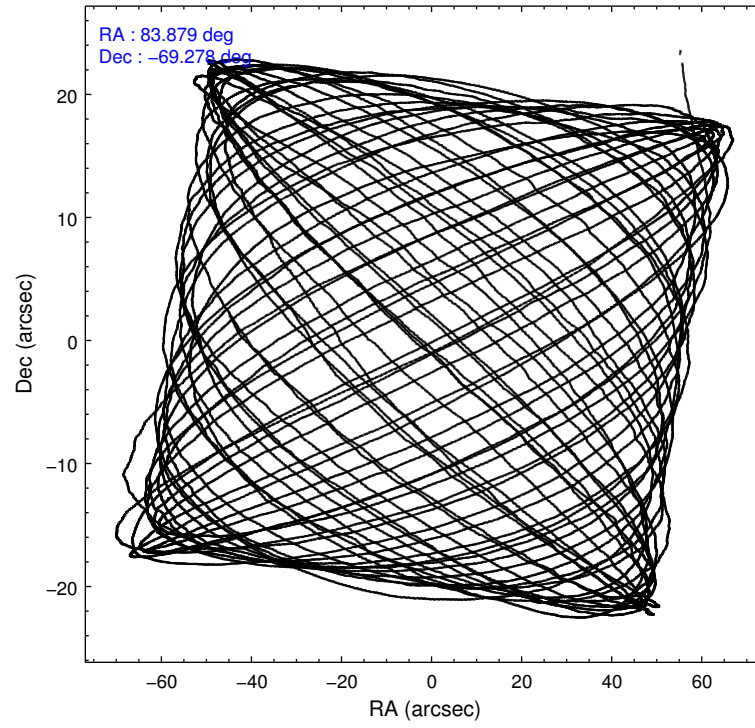
Level 1 Events

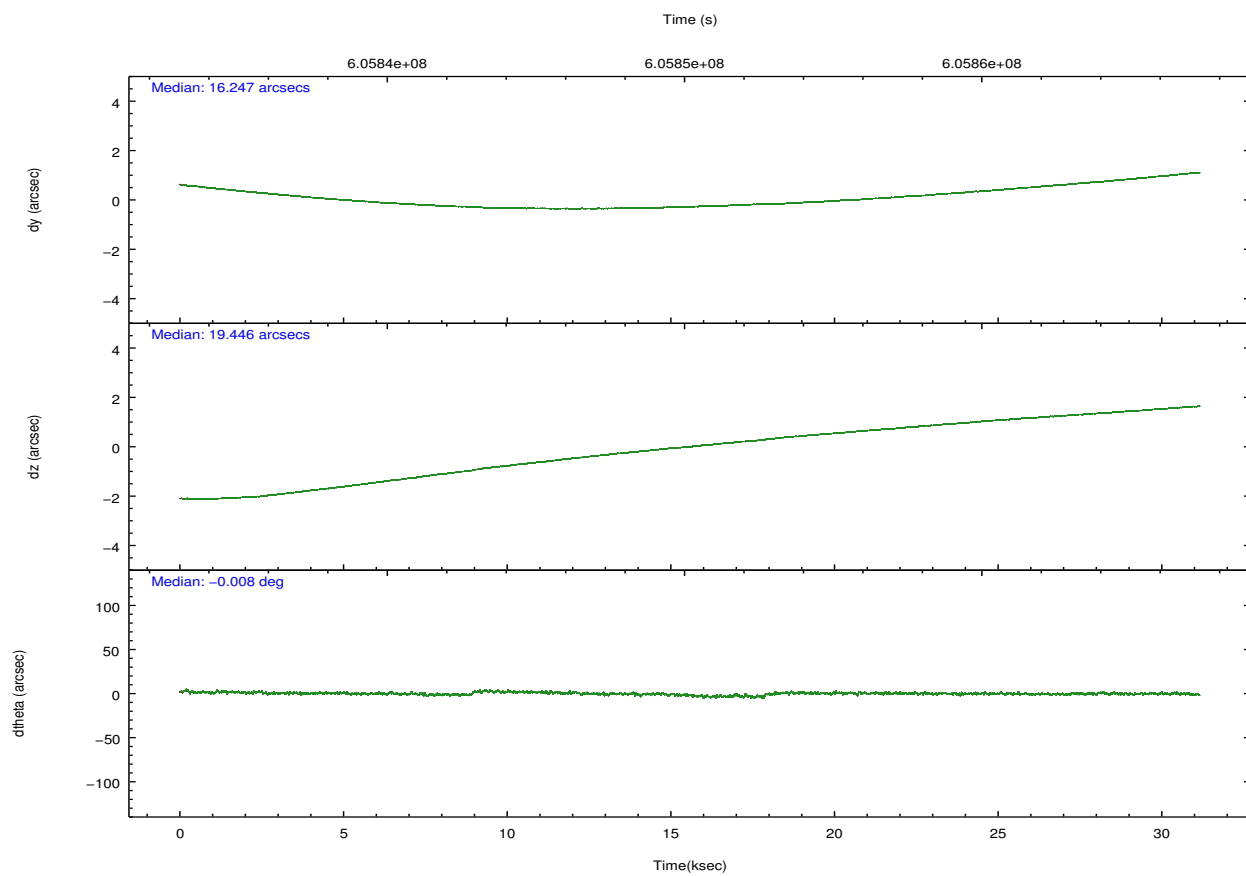
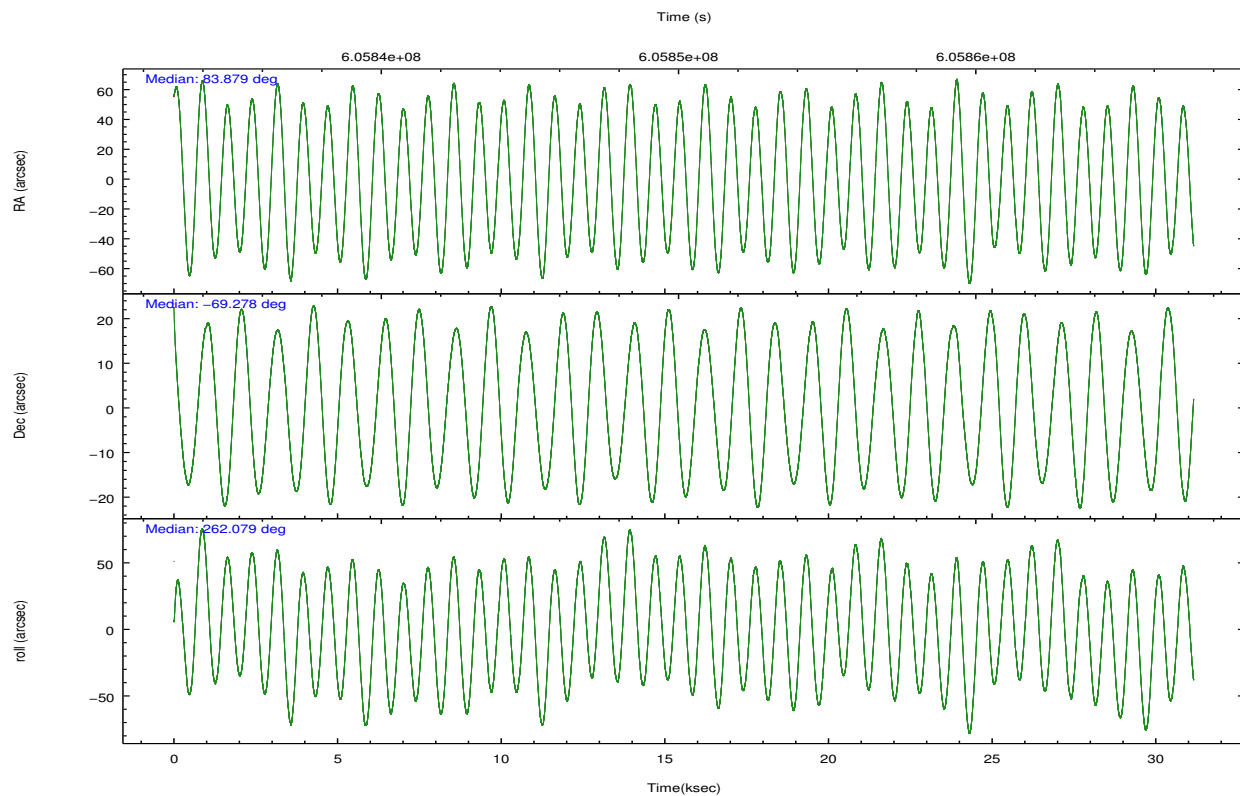
	segment 1	segment 2	segment 3
level 1 events	1165387	1162740	1155773
rejected events	55655	55264	55796
rejected %	4%	4%	4%

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	83.845067	83.87936920509063			
[deg] Pointing Dec	-69.251396	-69.27764102401204			
[deg] Pointing Roll	261.979798	262.0791966423172			
[deg] Roll angle	264.000000	264.000000			
[deg] Roll tolerance	12.000000	12.000000			
Roll constraint allows 180D rotation	N	N			
[s] Window start time (MET)	605404869.184000	605404869.184000			
[s] Window stop time (MET)	607392069.184000	607392069.184000			
[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)	605834772.184000	605833718.8360699			
Observation start date	2017-03-13T23:25:03	2017-03-13T23:08:38			
[s] Observation end time (MET)	605865772.184000	605866454.26297			
Observation end date	2017-03-14T08:01:43	2017-03-14T08:14:14			

2.3 Aspect



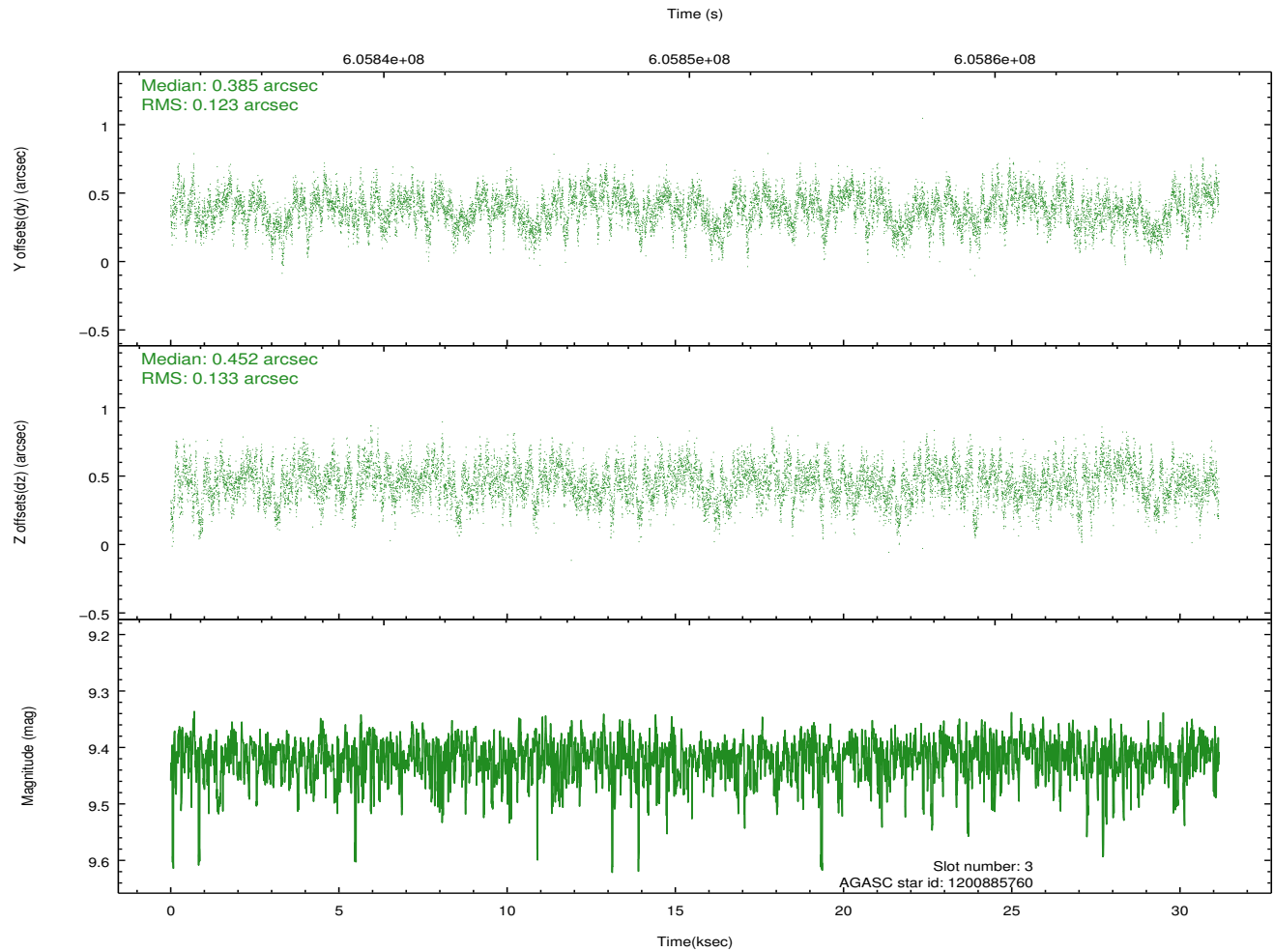
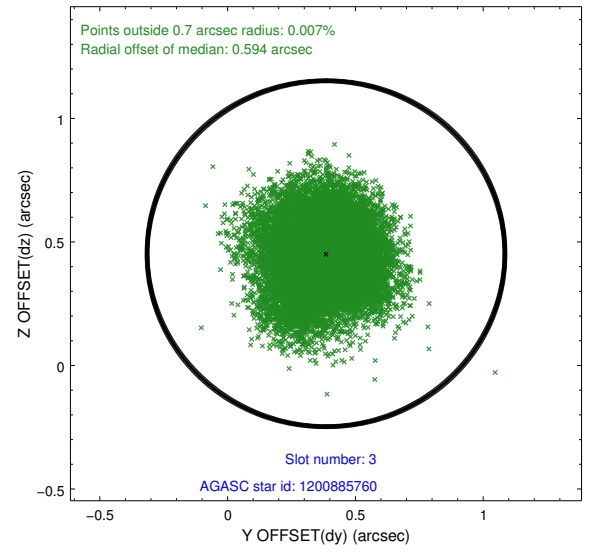
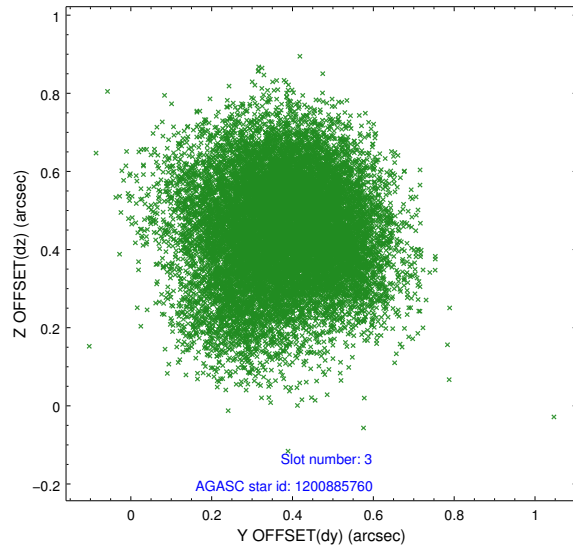


Slot Statistics

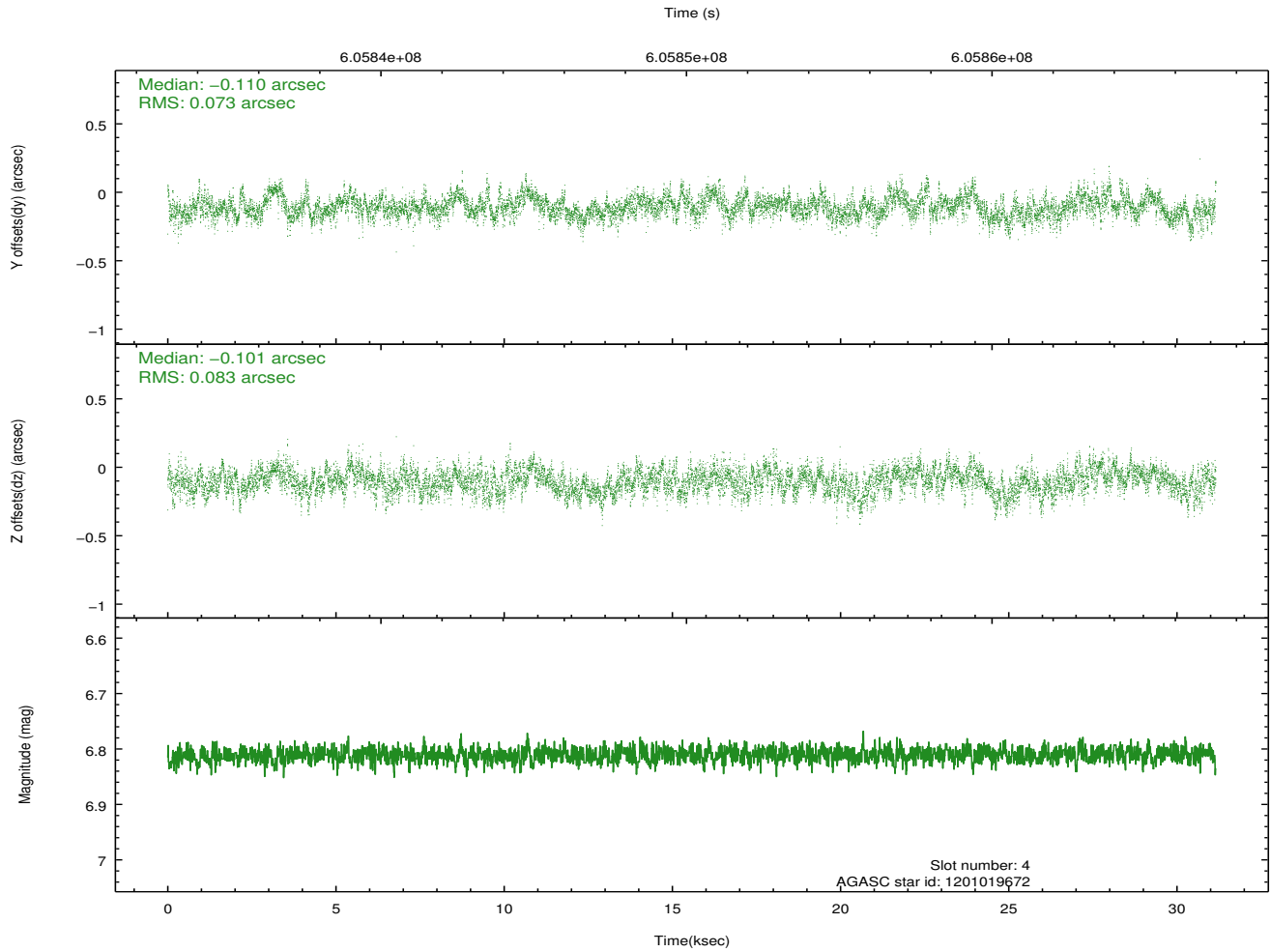
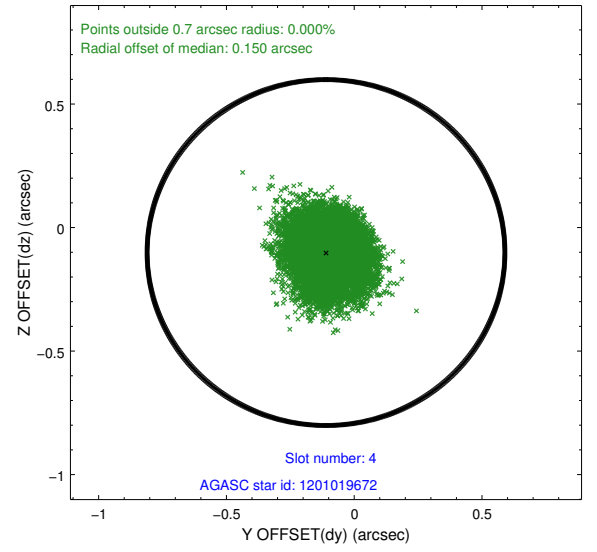
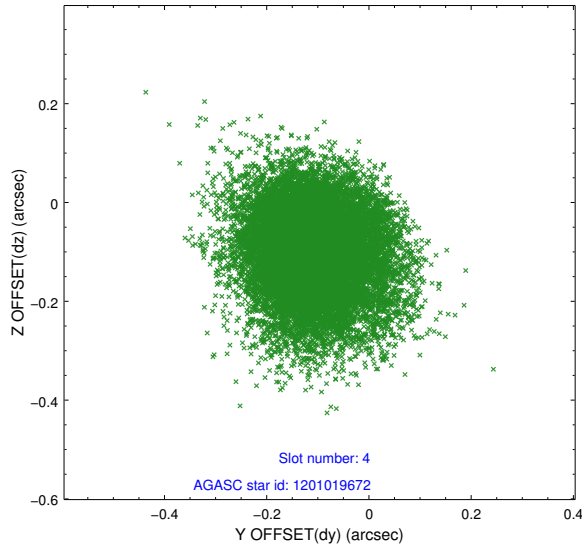
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		HRC-S-1	7.02	7600	-0.202	-0.196	0.008	0.012	0.000000	0.000000	-1171.02	-468.42
1	FID		HRC-S-2	6.98	7600	0.253	-0.146	0.016	0.028	0.000000	0.000000	1228.96	-460.90
2	FID		HRC-S-4	6.97	7600	0.351	0.038	0.015	0.027	0.000000	0.000000	1227.88	564.02
3	GUIDE	used	1200885760	9.42	15175	0.385	0.452	0.194	0.314	83.723637	-68.777667	-1665.98	-393.91
4	GUIDE	used	1201019672	6.81	15198	-0.110	-0.101	0.117	0.192	85.312192	-68.770187	-1959.89	1655.16
5	GUIDE	used	1201020040	8.56	15190	0.063	-0.229	0.114	0.188	85.379163	-68.879396	-1579.23	1786.99
6	GUIDE	used	1201410616	9.28	15182	-0.036	0.168	0.195	0.340	82.516808	-69.784406	2148.18	-1365.55
7	GUIDE	used	1201542672	8.17	15188	-0.297	-0.277	0.124	0.205	84.492488	-69.957531	2406.77	1146.56

2.4 Star Slots

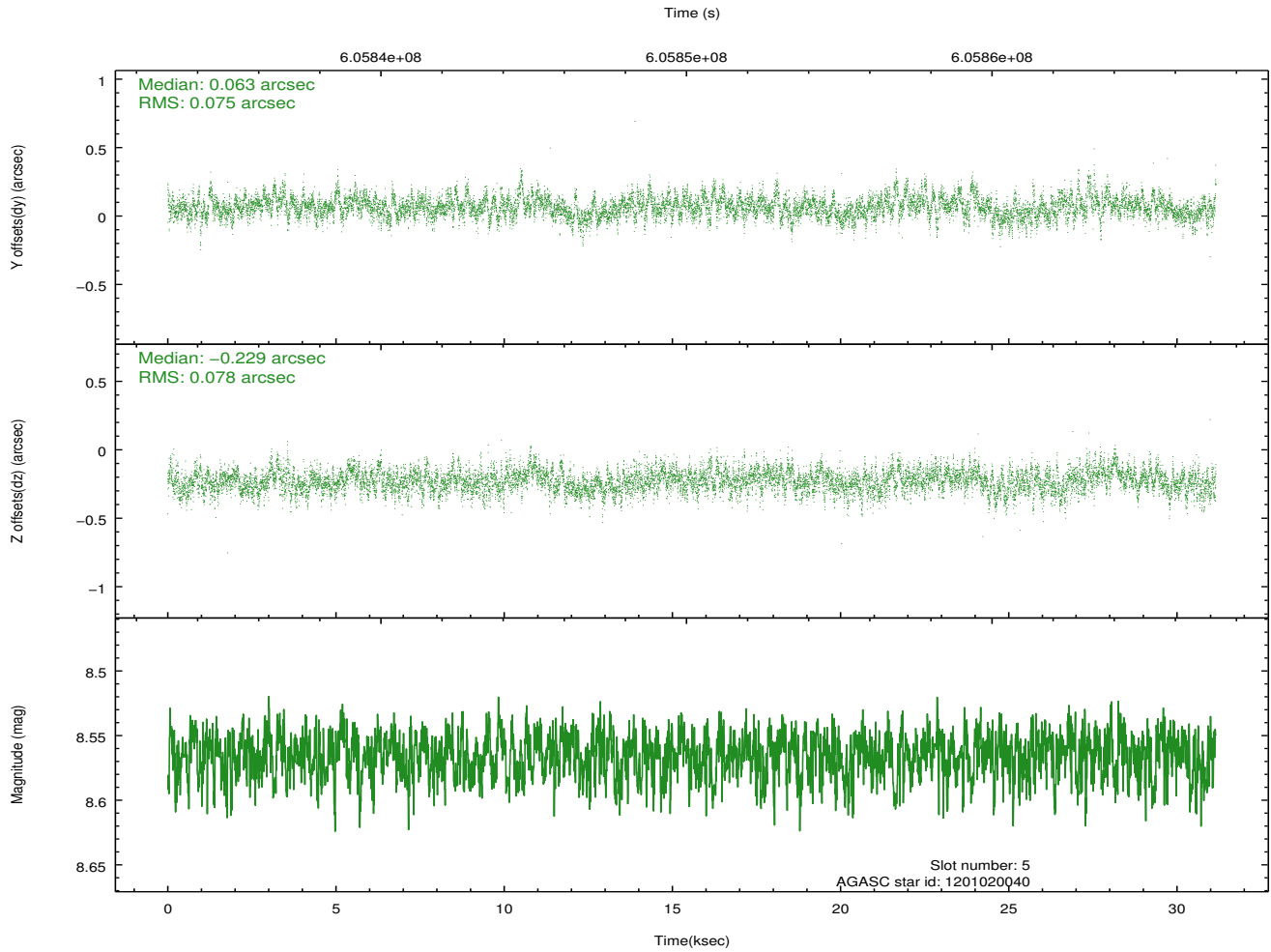
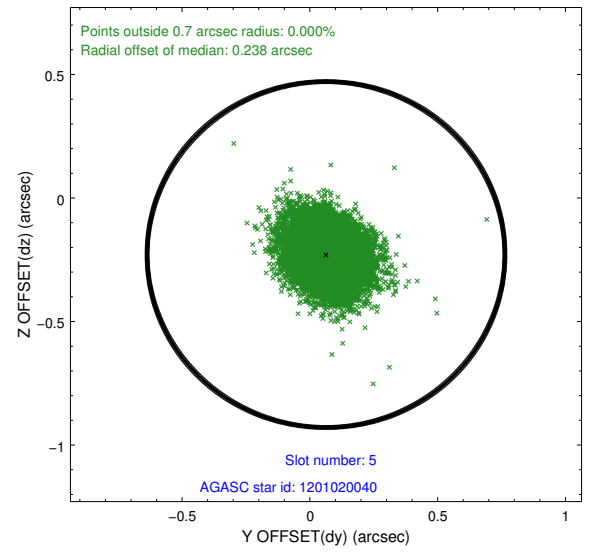
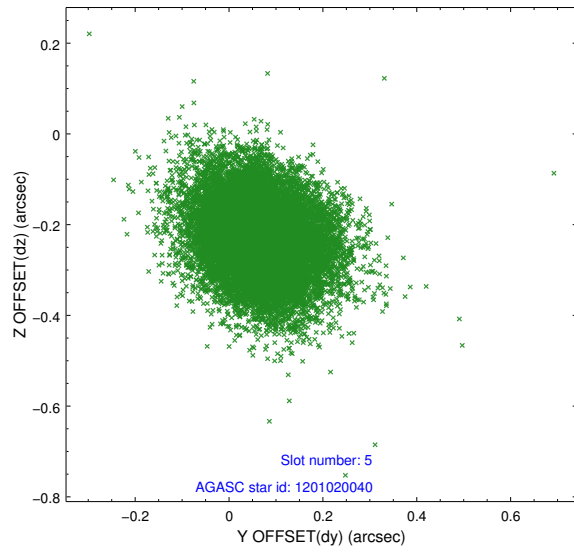
2.4.1 Slot 3



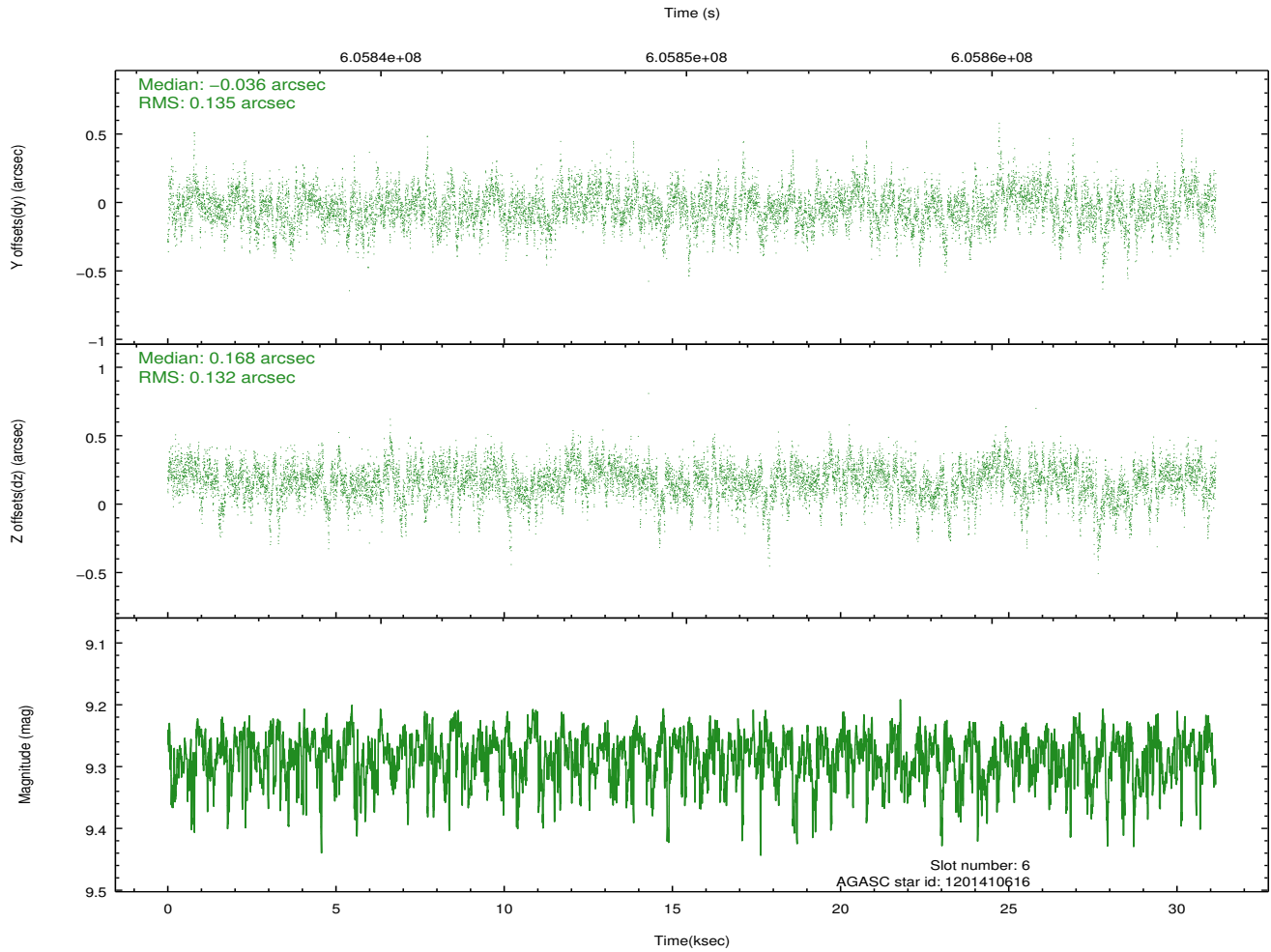
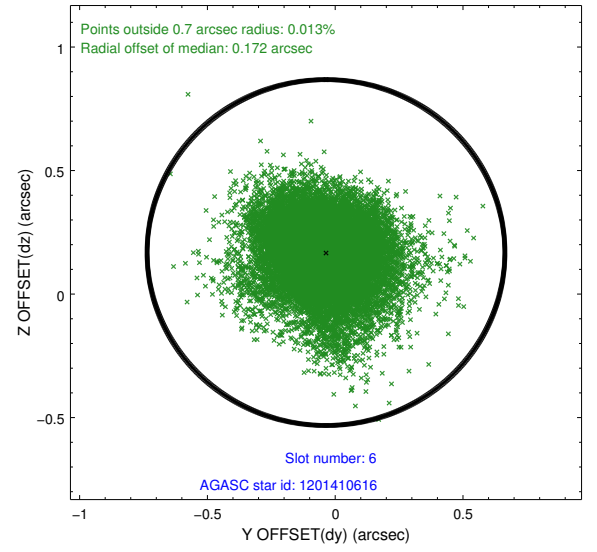
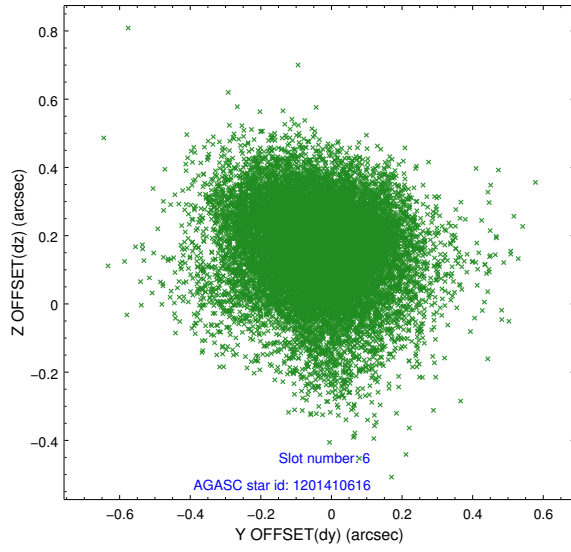
2.4.2 Slot 4



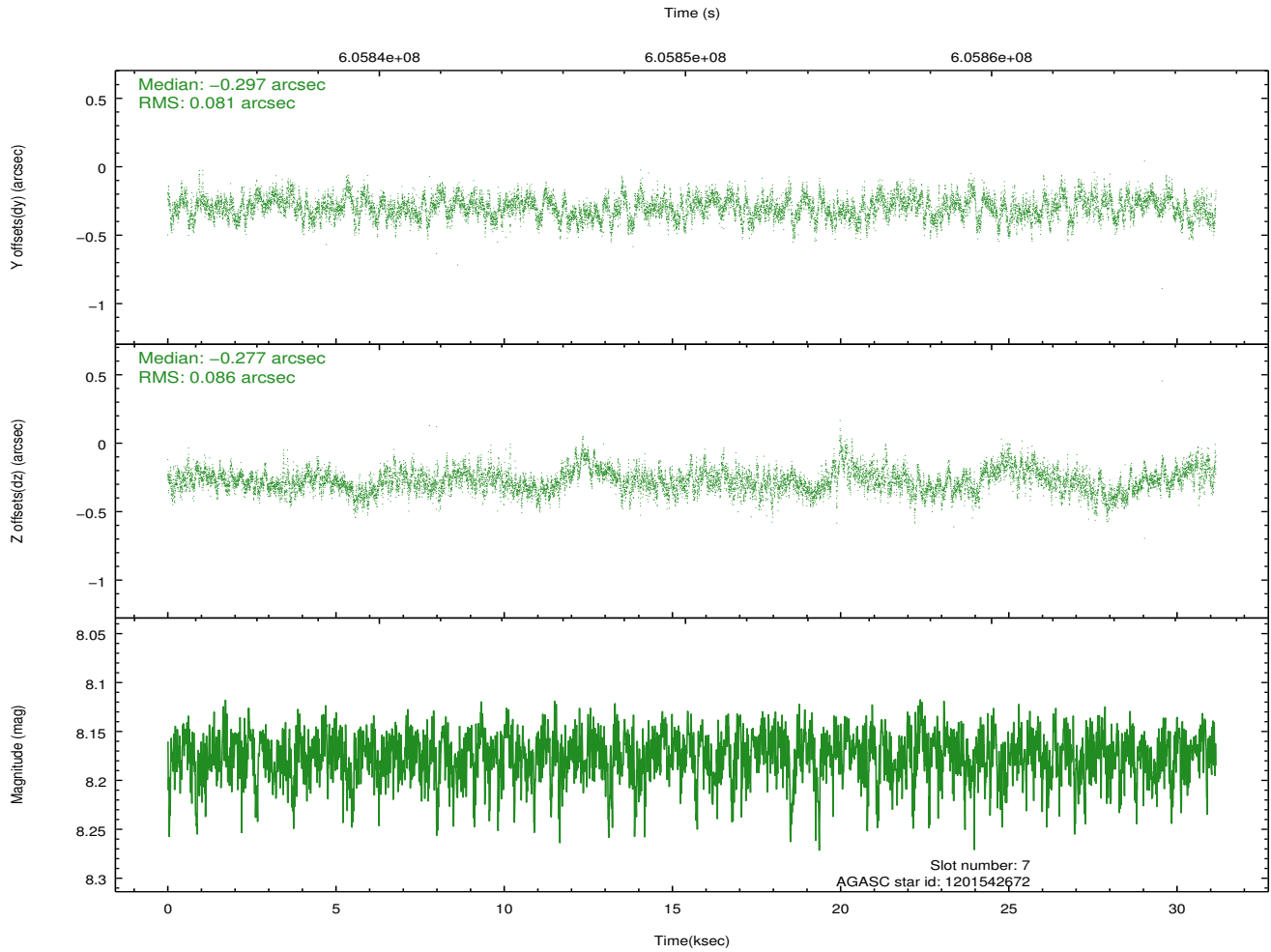
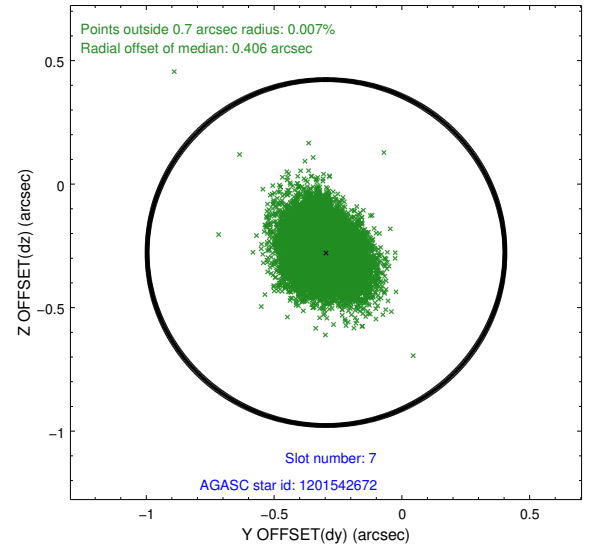
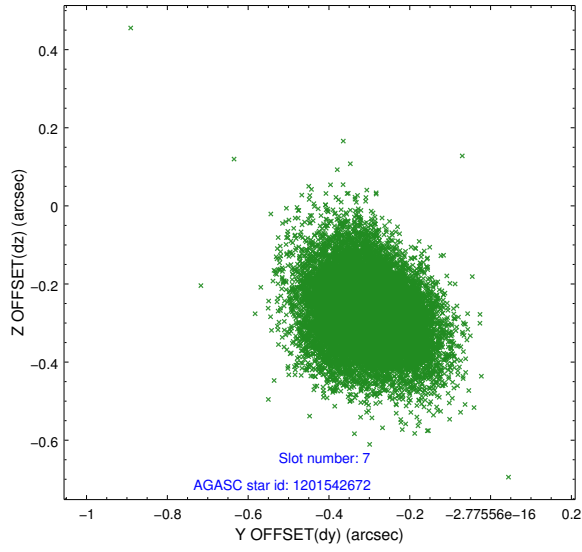
2.4.3 Slot 5



2.4.4 Slot 6

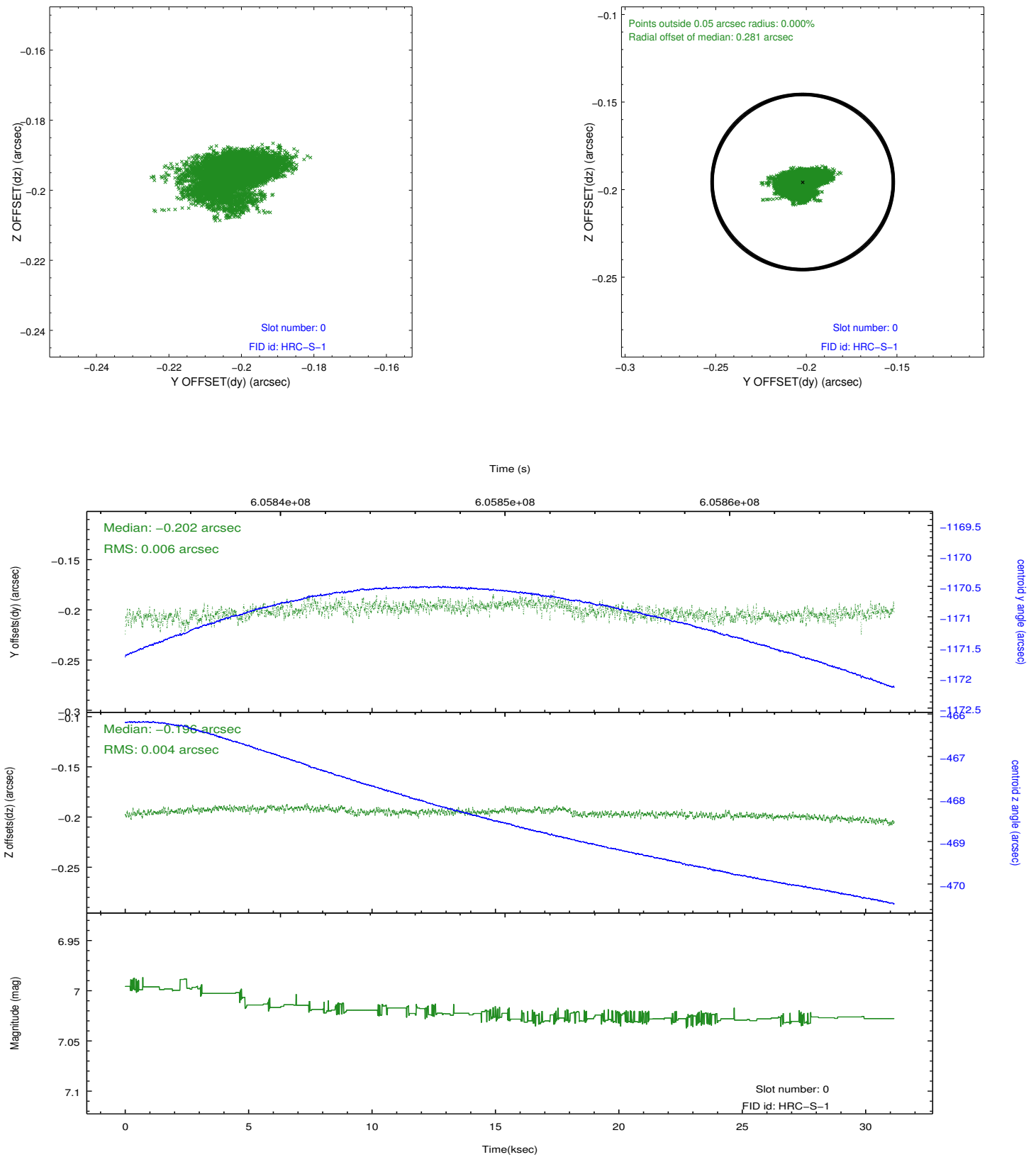


2.4.5 Slot 7

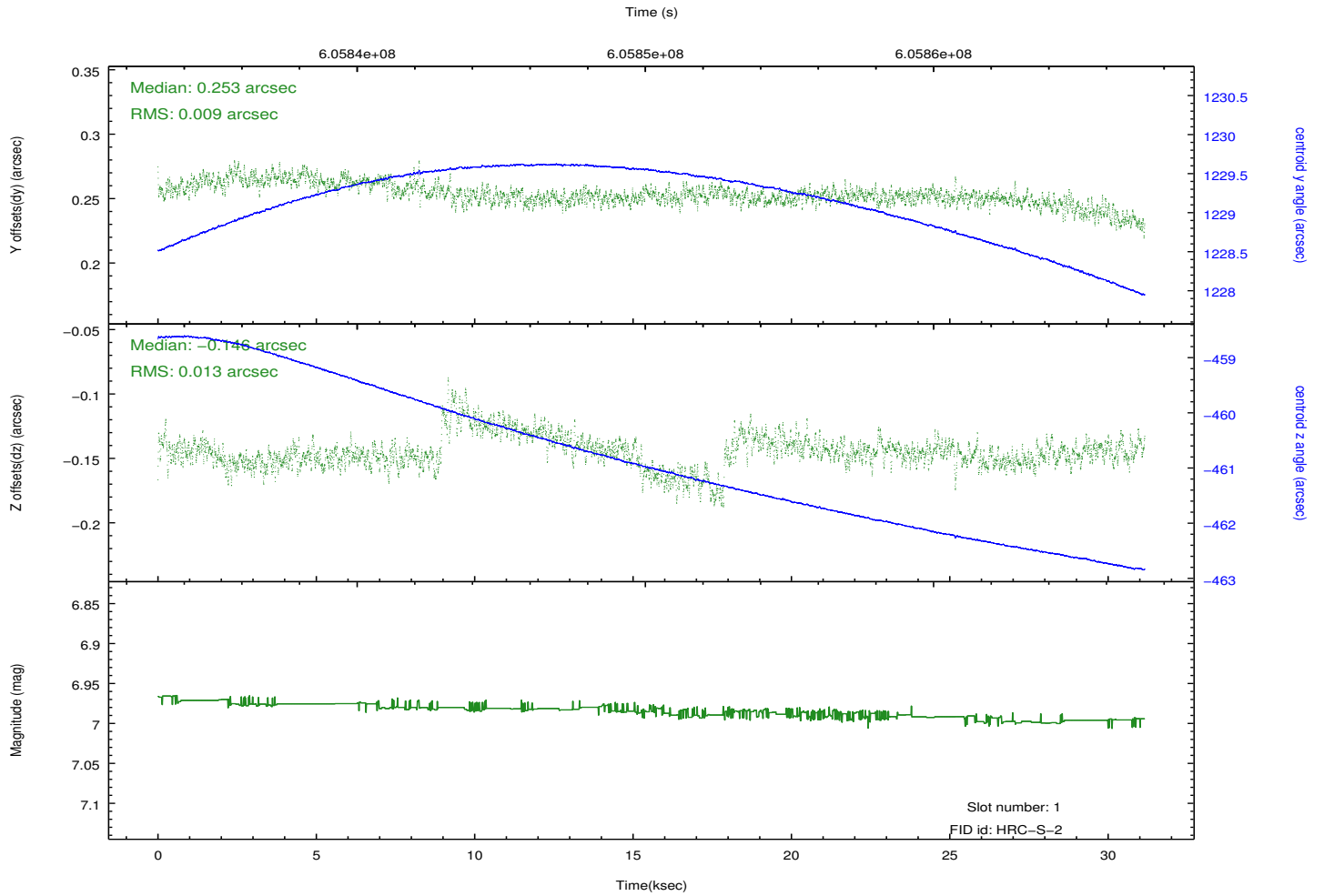
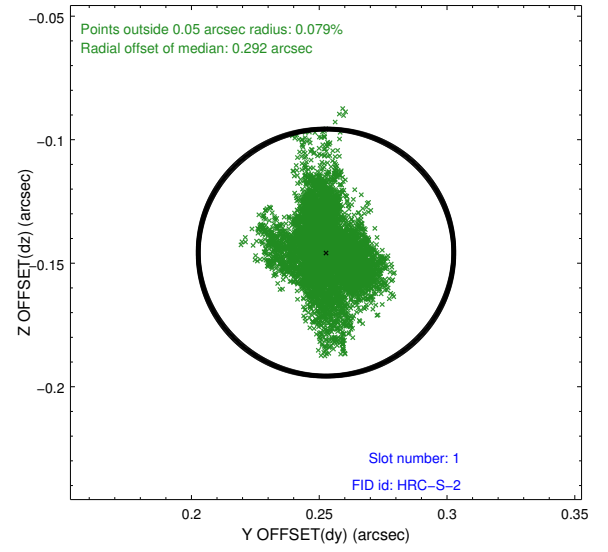
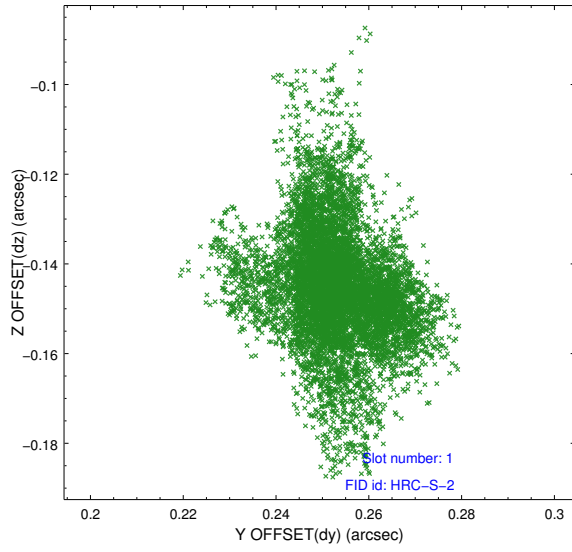


2.5 FID Slots

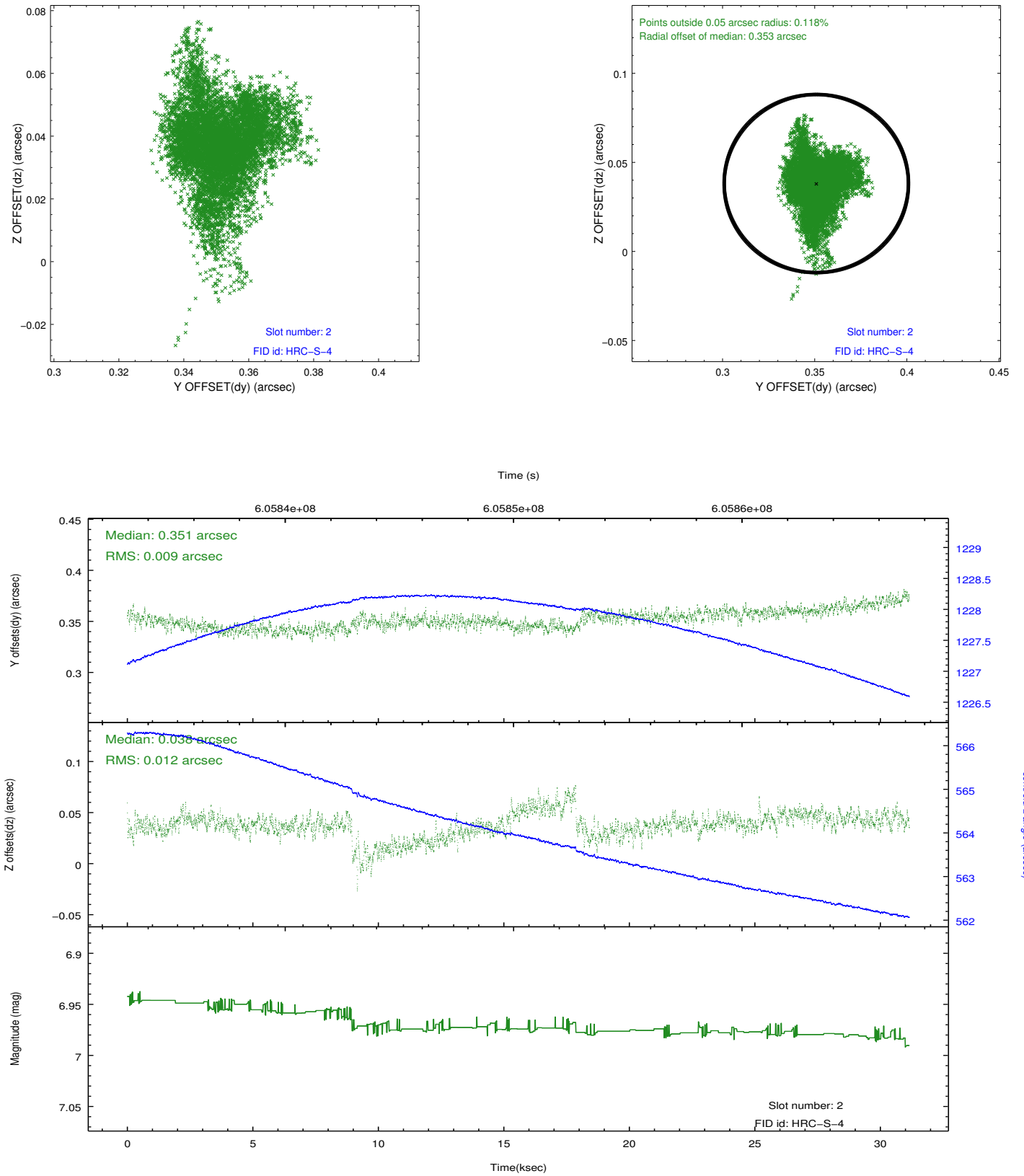
2.5.1 Slot 0



2.5.2 Slot 1

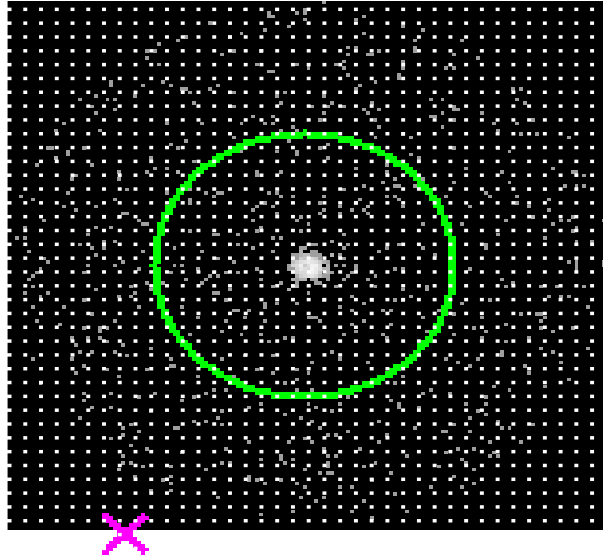


2.5.3 Slot 2

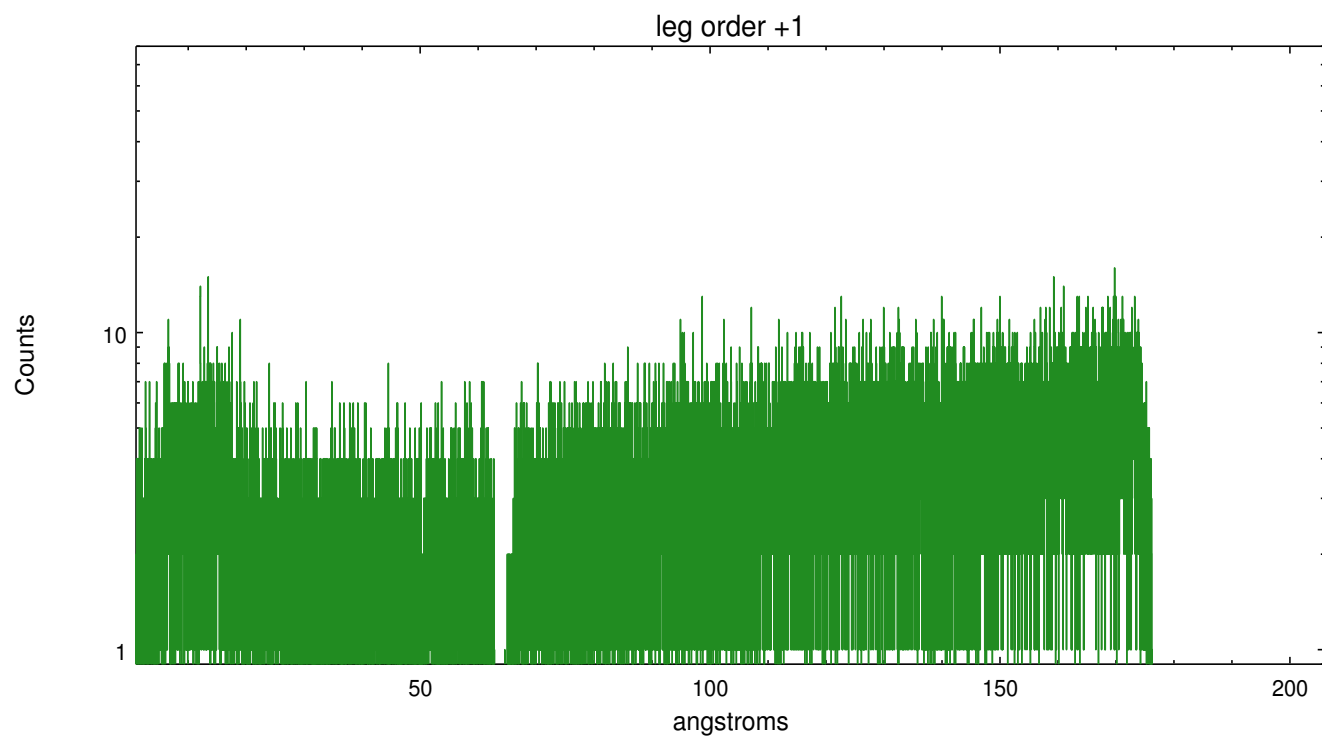
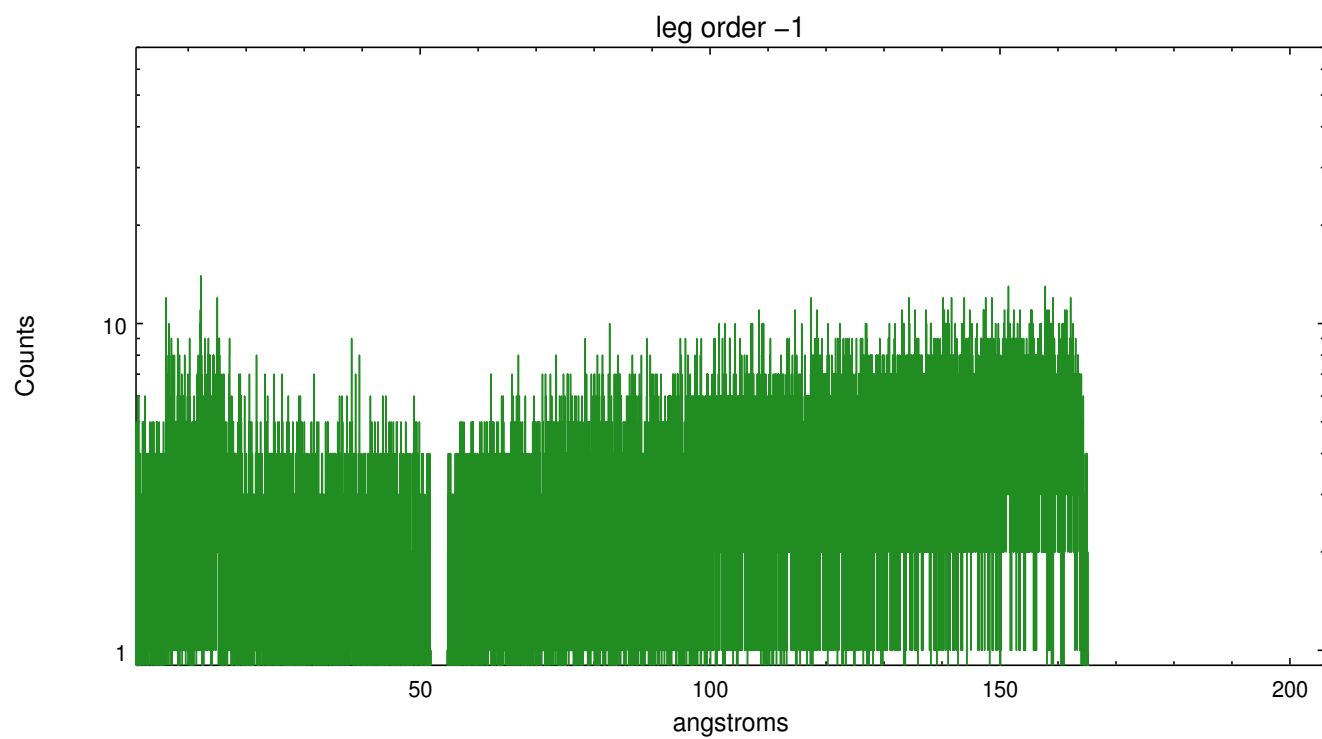


3 Gratings

3.1 LETG Arm



LETG Zero Order



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2017.03.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	31.157183056116

A.2 Comments

Roll constraint met.

WARNING: Zeroth order selected by pipeline tools is near the center of the supernova remnant 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.