

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 1012 - L2 Version 3
Chandra X-Ray Center

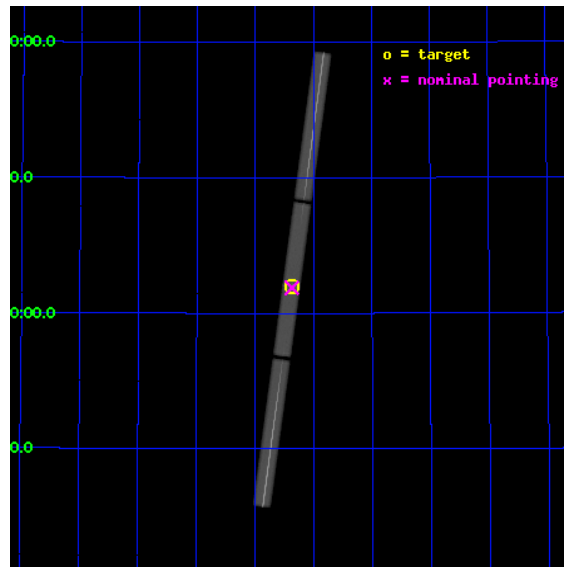
L2 Processing Date : Sep 22 2012

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1 Front

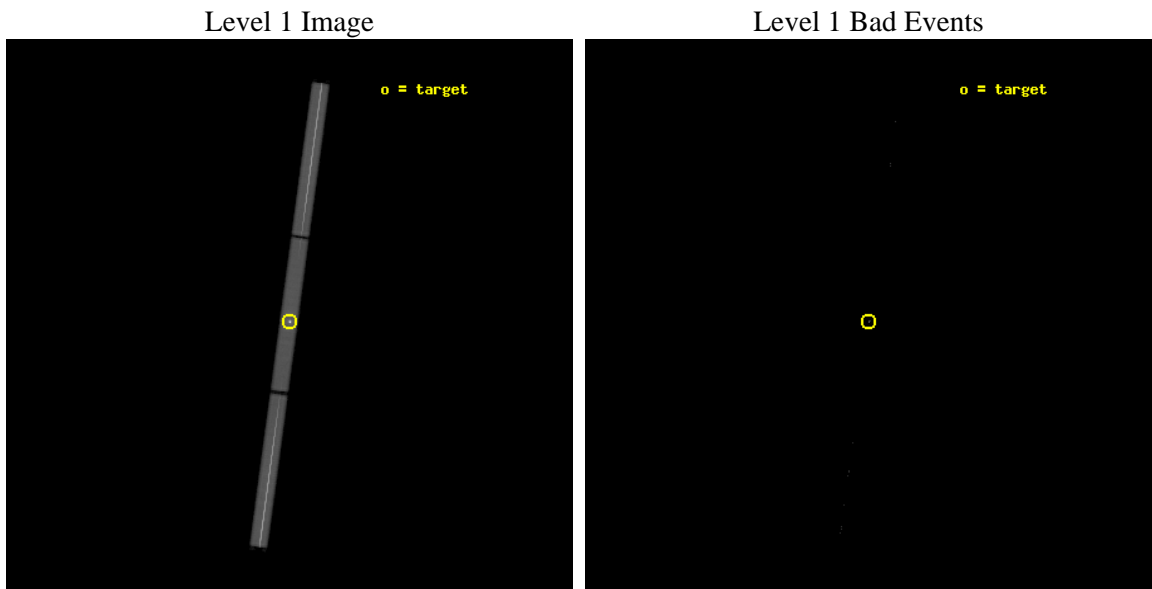
seq_num	390004	Sequence number
obs_id	1012	Observation id
title	GRATINGS CALIBRATION OBSERVATIONS OF HZ43 AND CAPELLA	Proposal tit
observer	Dr. CXC Calibration	Principal investigator
object	HZ43	Source name
ra_targ	199.092083	Observer's specified target RA [deg]
dec_targ	29.099	Observer's specified target Dec [deg]
ra_nom	199.0926064614	Nominal RA [deg]
dec_nom	29.094327815363	Nominal Dec [deg]
roll_nom	277.67895117387	Nominal Roll [deg]
revision	3	Processing version of data
ontime	20158.932044595	[s]
livetime	19941.052412904	Ontime multiplied by DTCOR
l2events	2005628	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	20000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	20158.932044595	[s]
caldbver	4.5.1.1	 	l1events	2577305	Number of level 1 events
date	2012-09-22T07:53:13	Date and time of file creation			
revision	3	Processing version of data			

2.1.3 Events

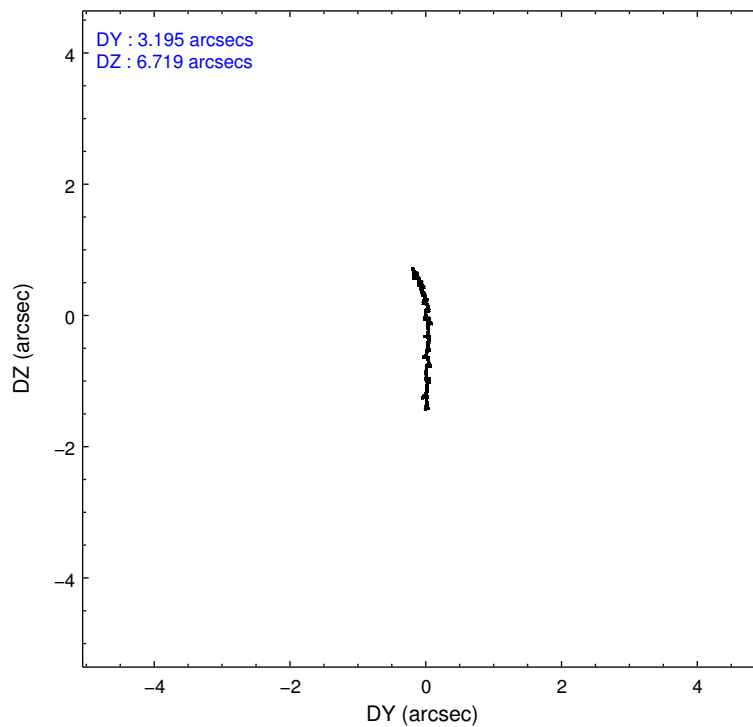
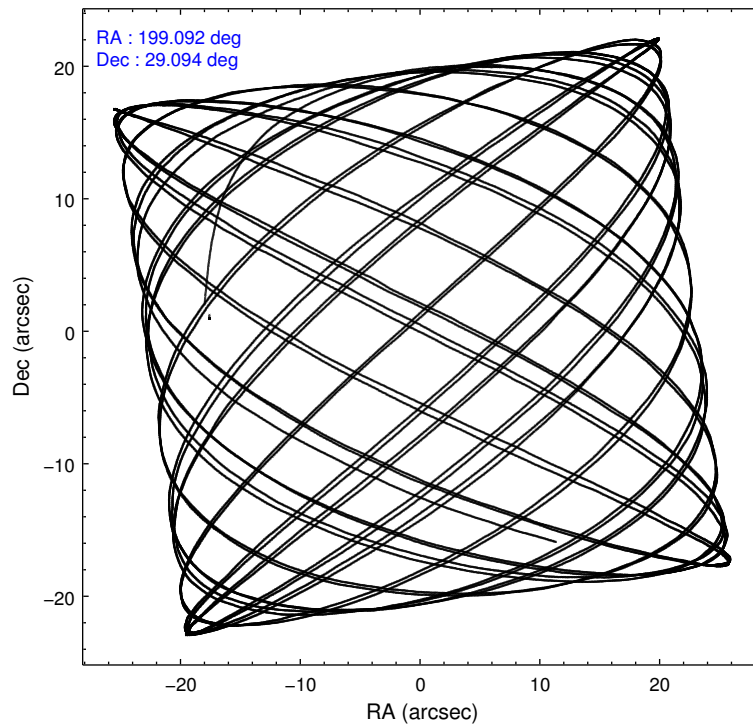
Level 1 Events

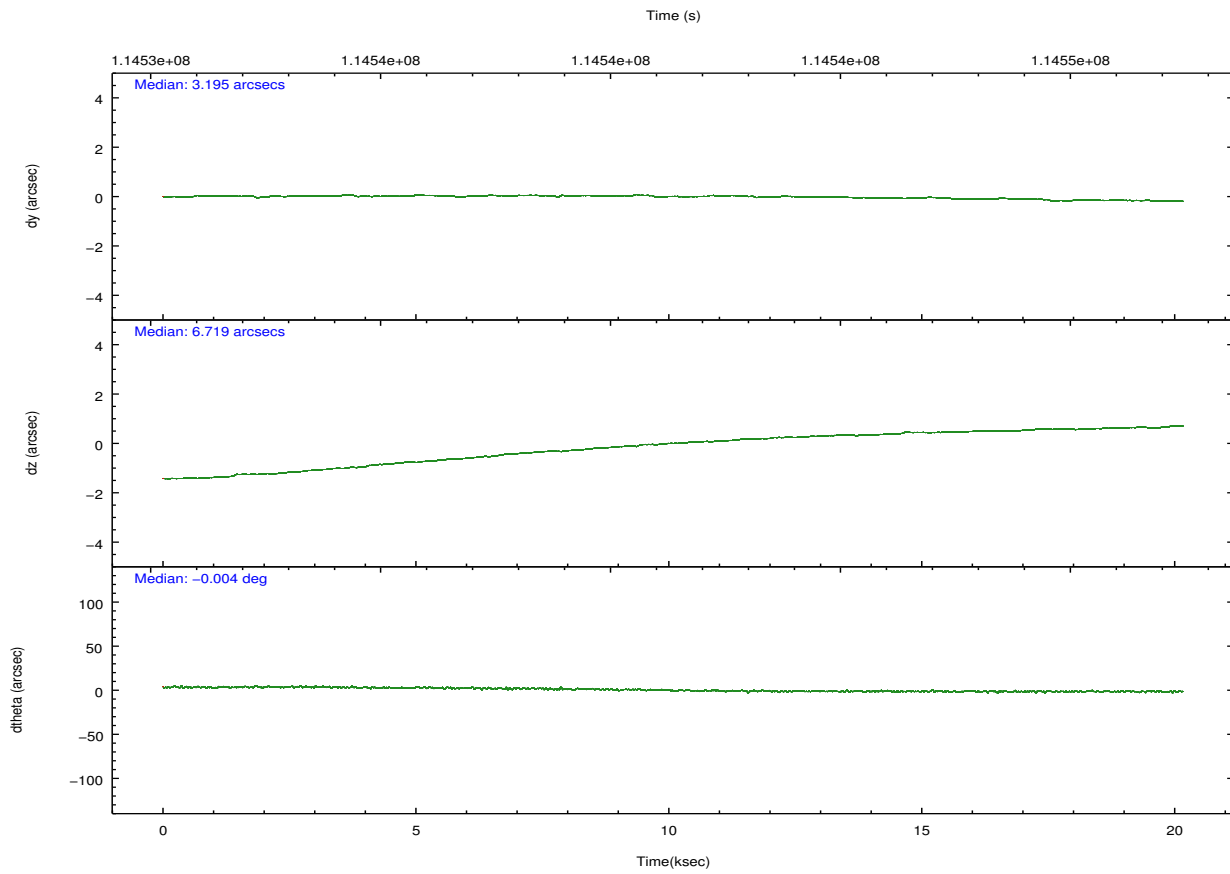
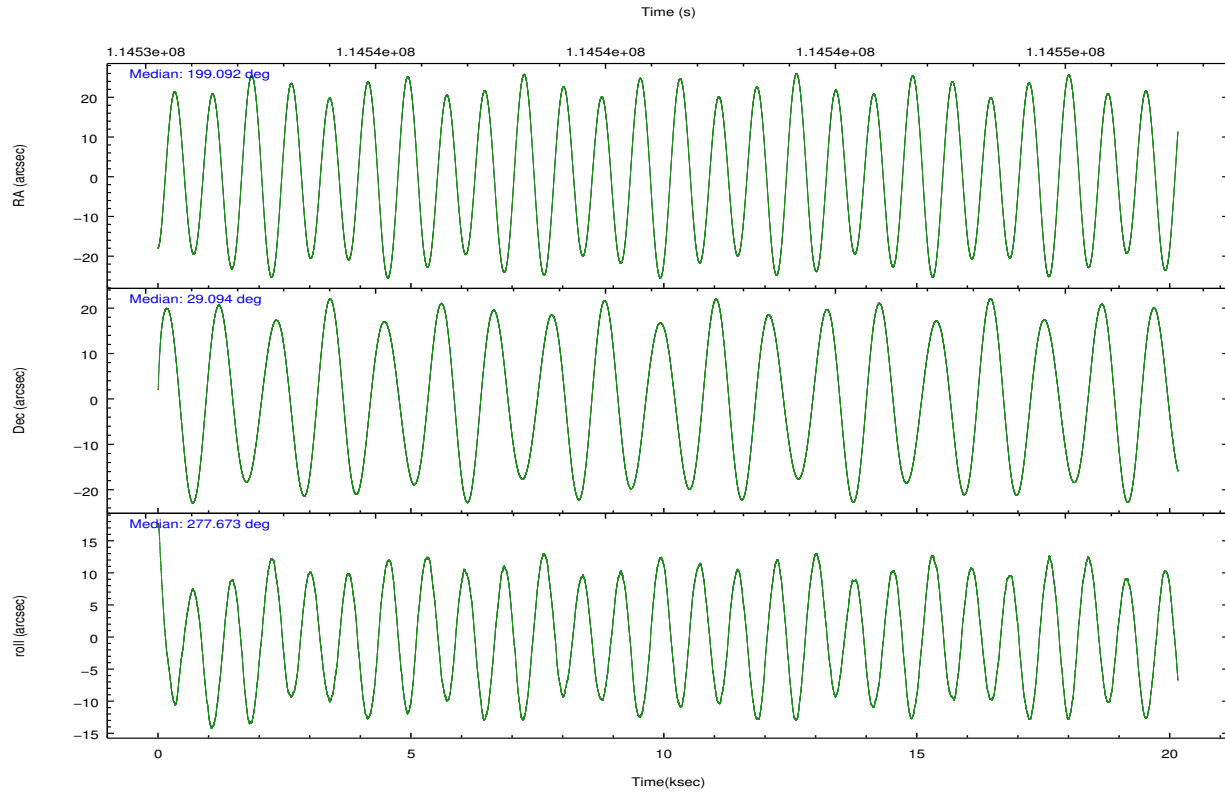
	segment 1	segment 2	segment 3
level 1 events	896754	776979	903572
rejected events	31985	30029	32132
rejected %	3%	3%	3%

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	199.071376	199.0926064613975			
[deg] Pointing Dec	29.116085	29.09432781536295			
[deg] Pointing Roll	277.621943	277.6789511738708			
[s] Window start time (MET)	113011264.184000	113011264.184000			
[s] Window stop time (MET)	115516864.184000	115516864.184000			
[mm] SIM focus pos	-1.429586	-1.428180813131781			
[mm] SIM defocus	0.1037507710433287	0.1051558262725154			
[mm] SIM translation stage pos	250.455976	250.4685473955025			
[mm] SIM translation stage offset	0	-0.01256900194783839			
[s] Observation start time (MET)	114531443.184000	114530243.52138			
Observation start date	2001-08-18T14:16:19	2001-08-18T13:57:23			
[s] Observation end time (MET)	114551443.184000	114552336.37225			
Observation end date	2001-08-18T19:49:39	2001-08-18T20:05:36			

2.3 Aspect



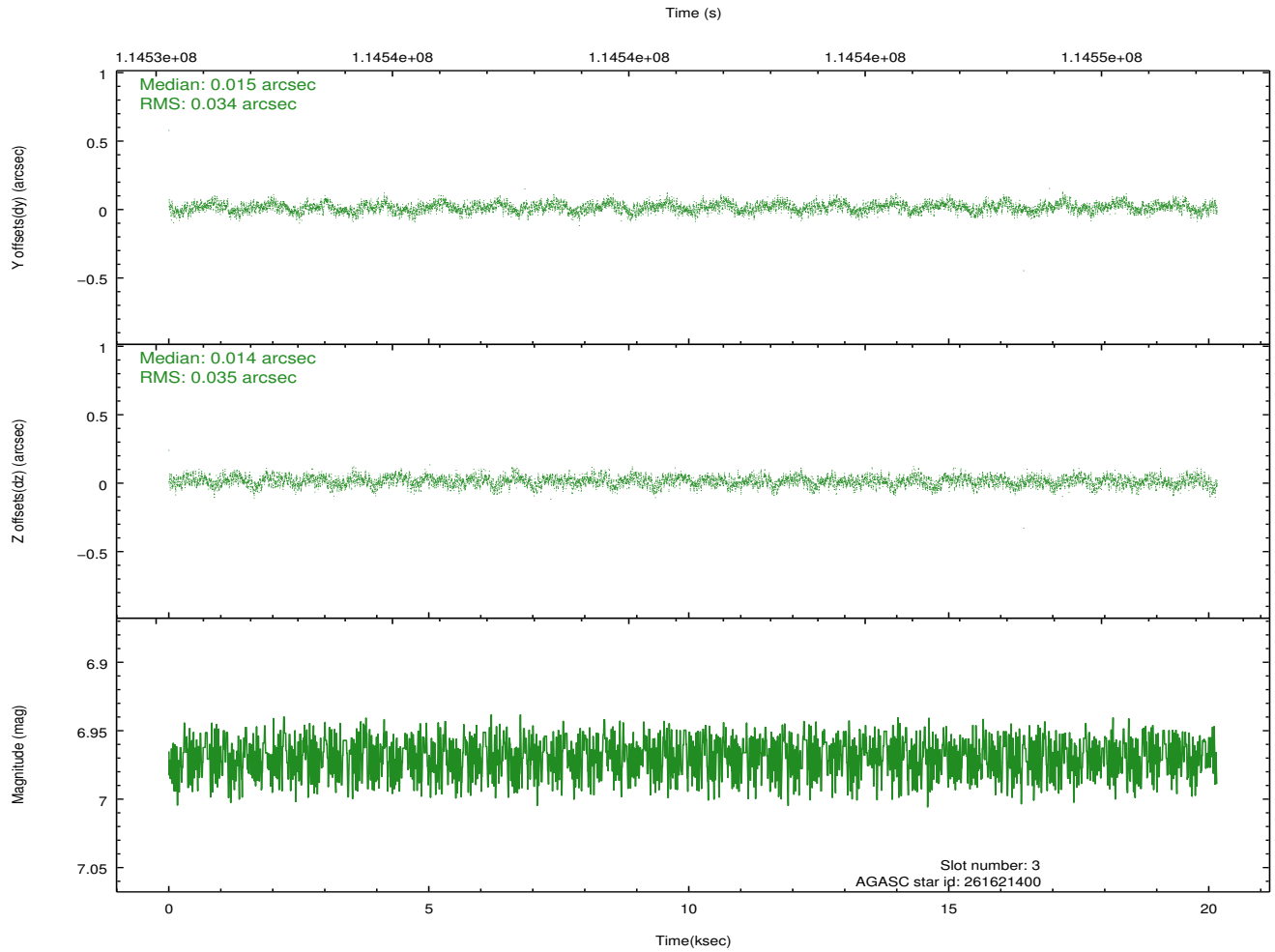
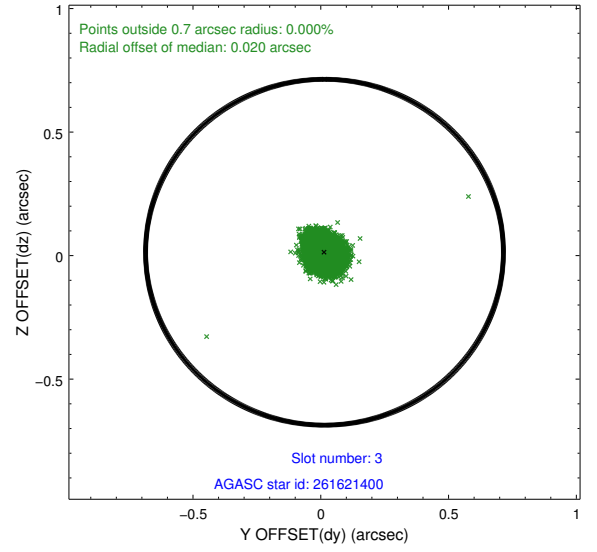
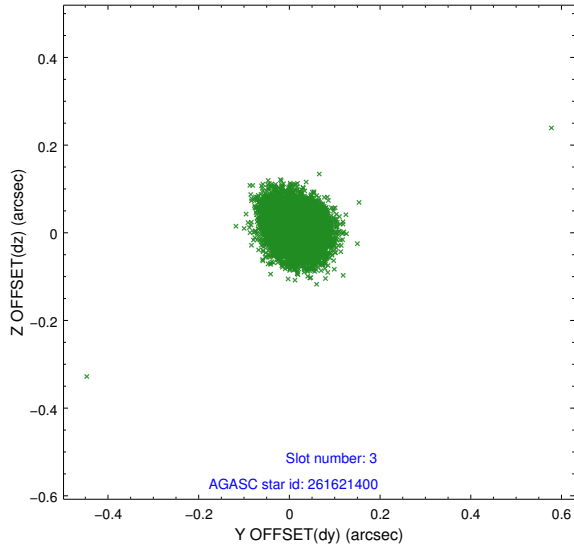


Slot Statistics

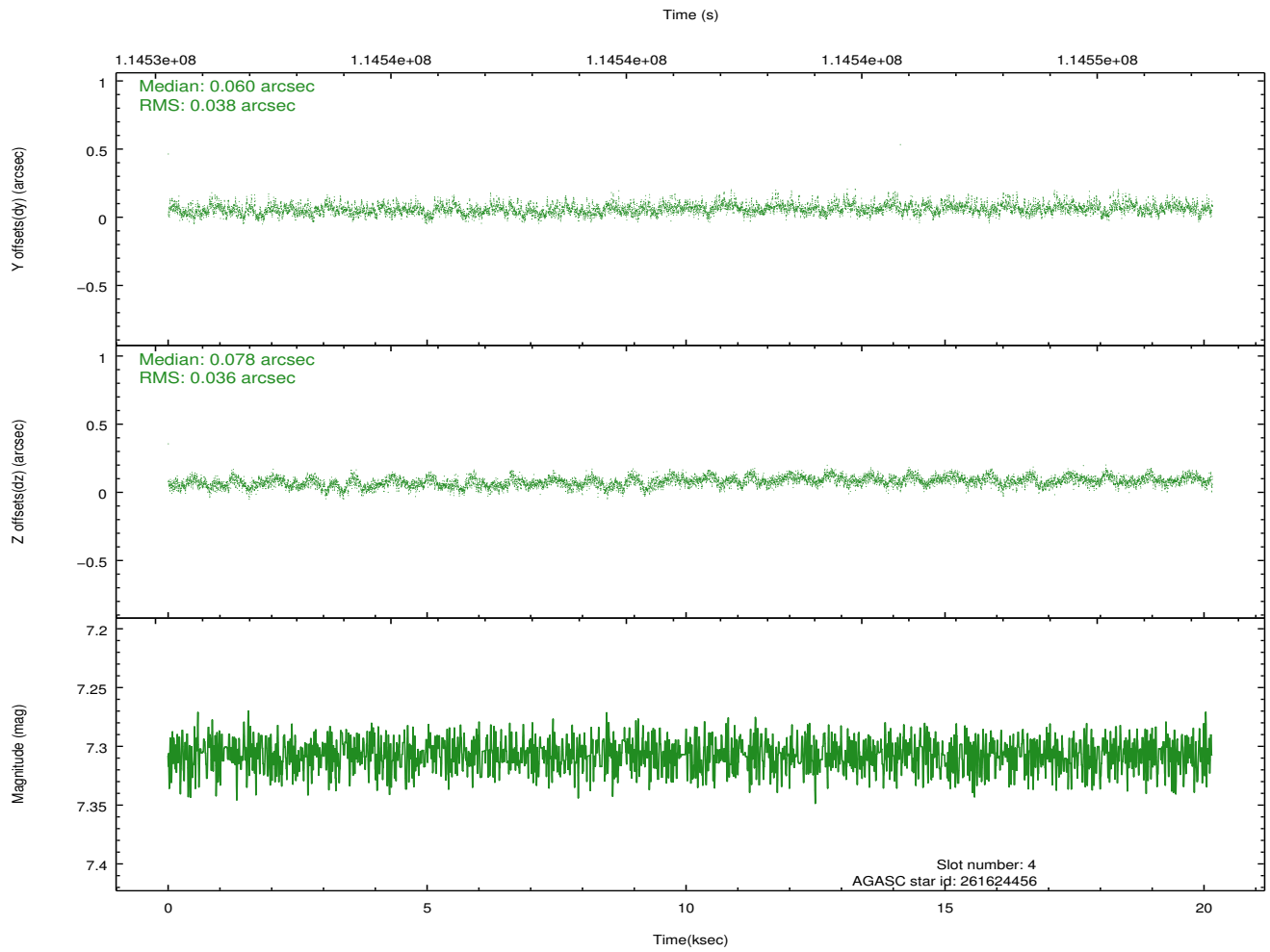
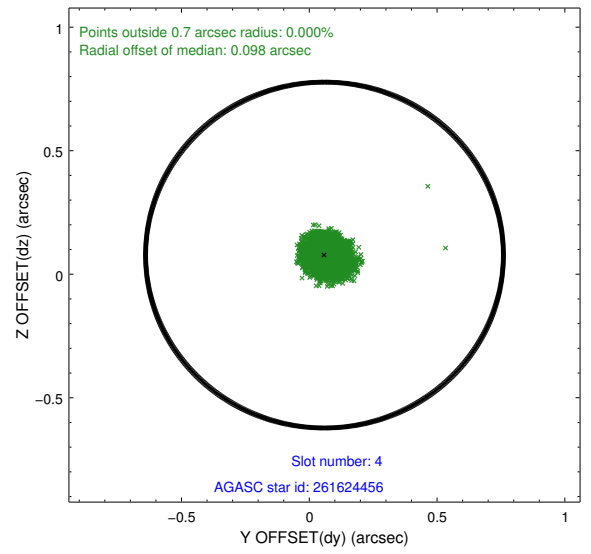
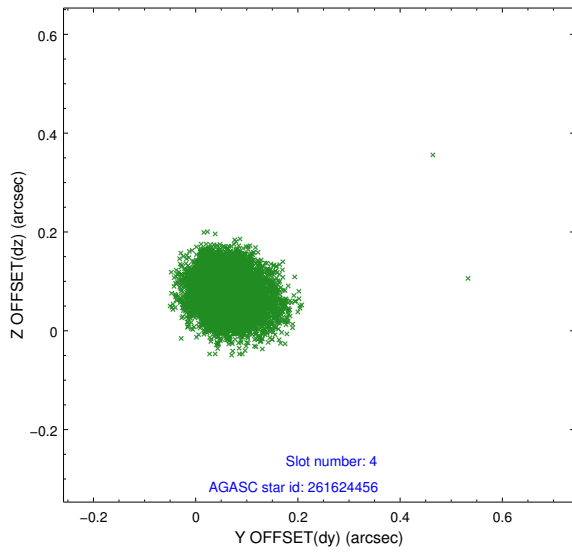
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-S-1	6.97	4918	0.143	-0.096	0.029	0.054	0.000000	0.000000	-1157.20	-455.12
1	FID	HRC-S-2	6.97	4918	0.096	-0.092	0.010	0.016	0.000000	0.000000	1242.19	-447.83
2	FID	HRC-S-3	6.99	4917	0.150	-0.114	0.028	0.054	0.000000	0.000000	-1159.67	574.32
3	GUIDE	261621400	6.97	9831	0.015	0.014	0.051	0.083	198.901600	28.741982	1263.83	-708.57
4	GUIDE	261624456	7.31	9835	0.060	0.078	0.055	0.090	199.758056	28.567828	2238.19	1892.29
5	GUIDE	261629720	8.09	9835	-0.001	-0.067	0.054	0.088	199.236176	29.044452	324.55	481.18
6	GUIDE	261619776	8.80	9832	-0.076	-0.021	0.077	0.123	198.654383	29.401174	-1192.53	-1158.80
7	GUIDE	261619992	9.32	9831	-0.000	-0.001	0.100	0.161	198.395553	28.647634	1382.83	-2338.06

2.4 Star Slots

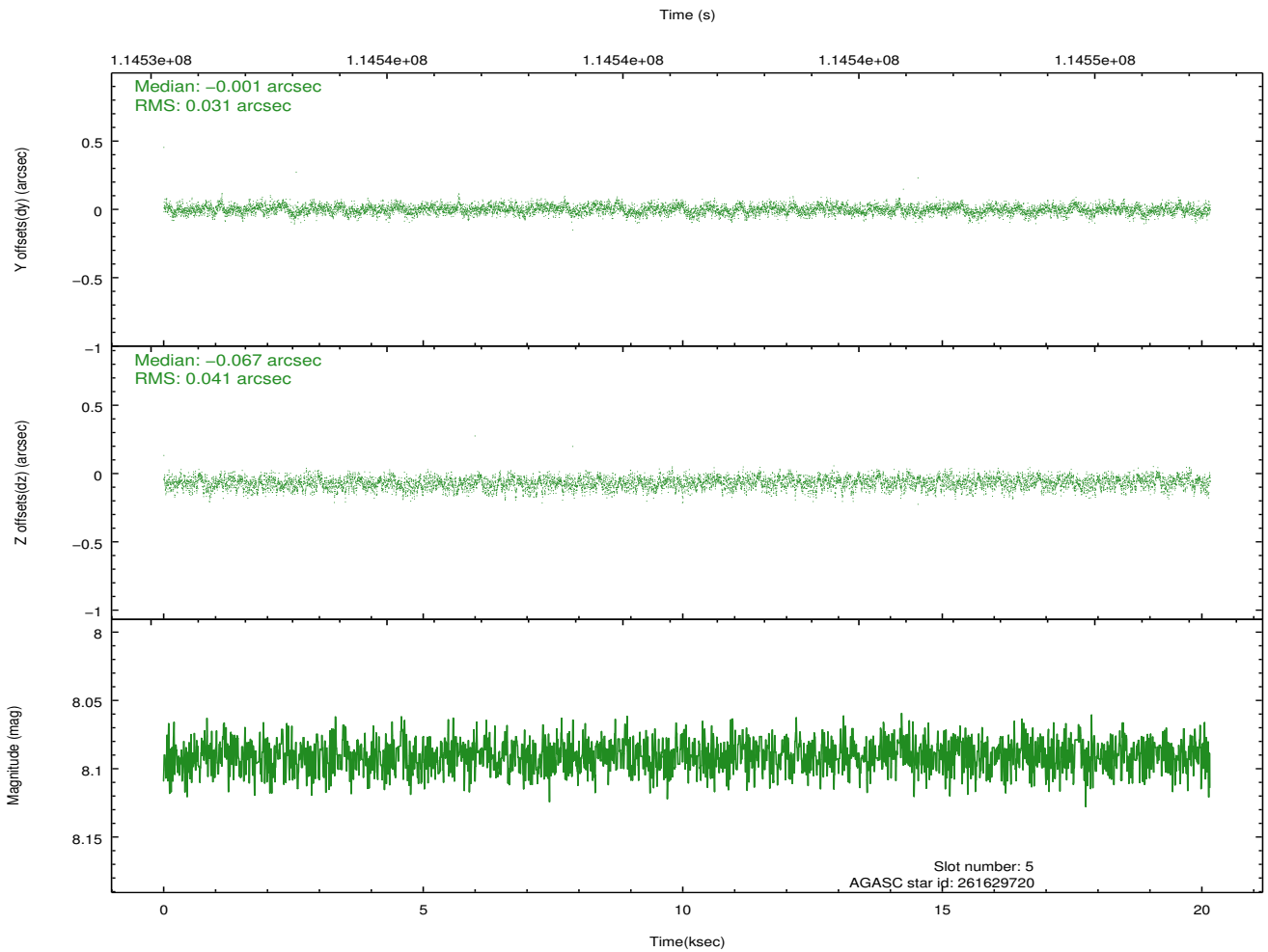
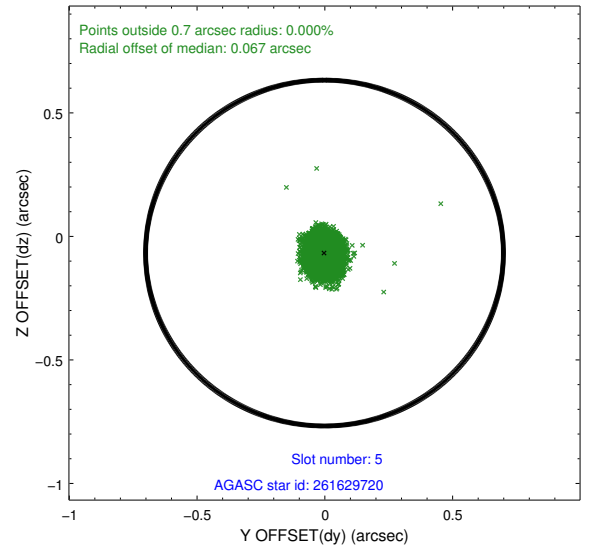
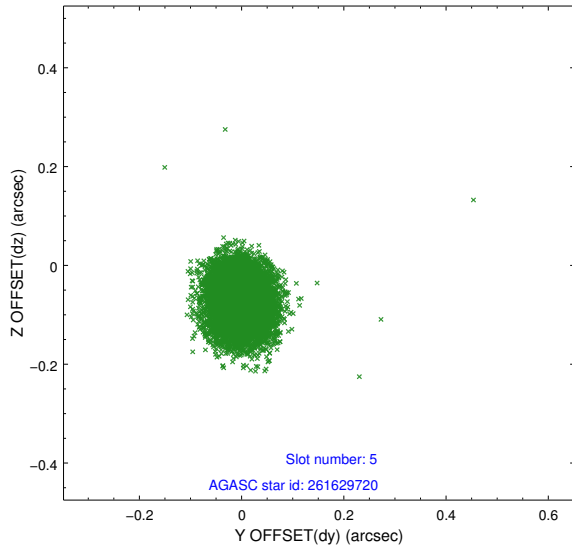
2.4.1 Slot 3



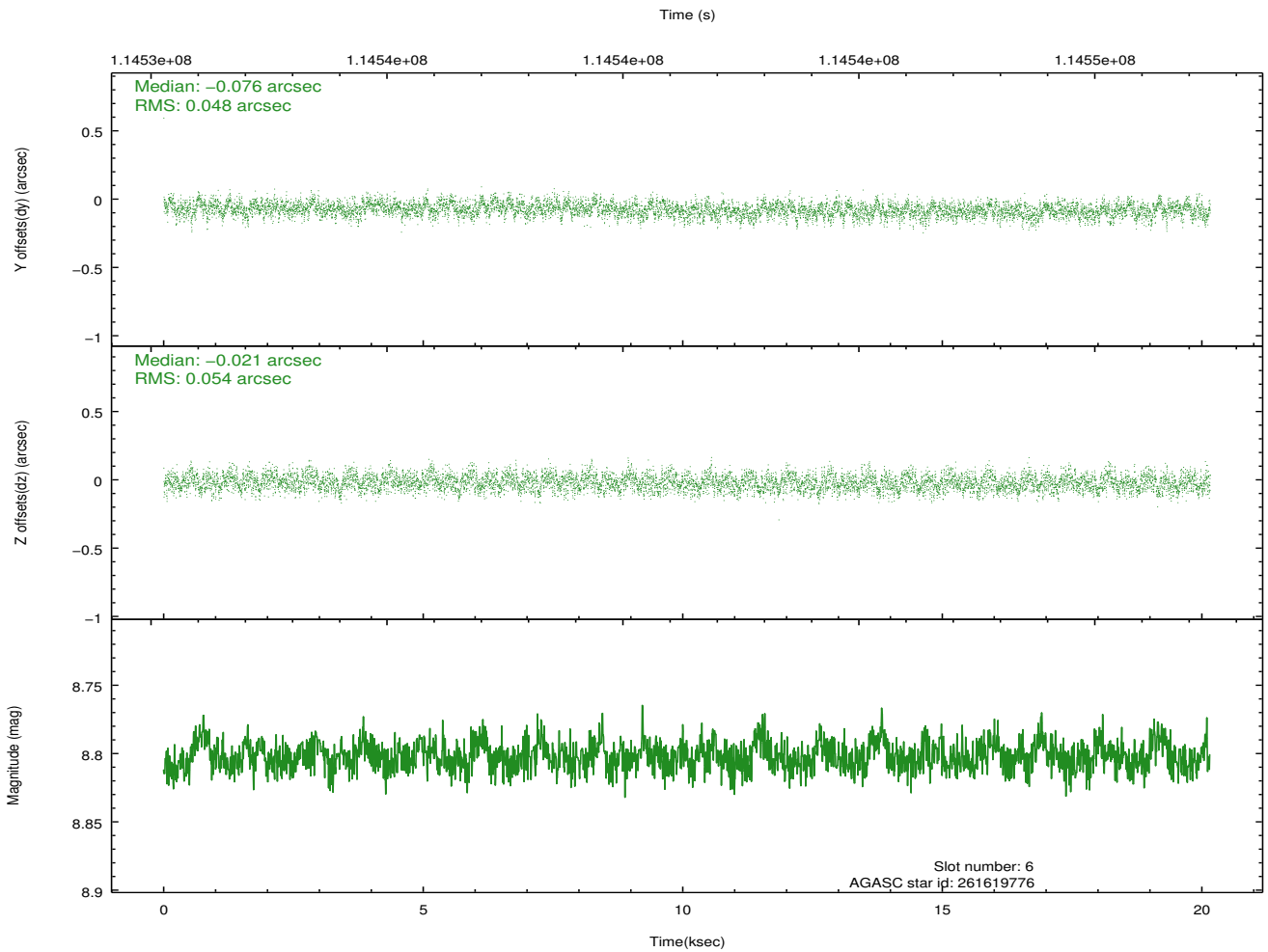
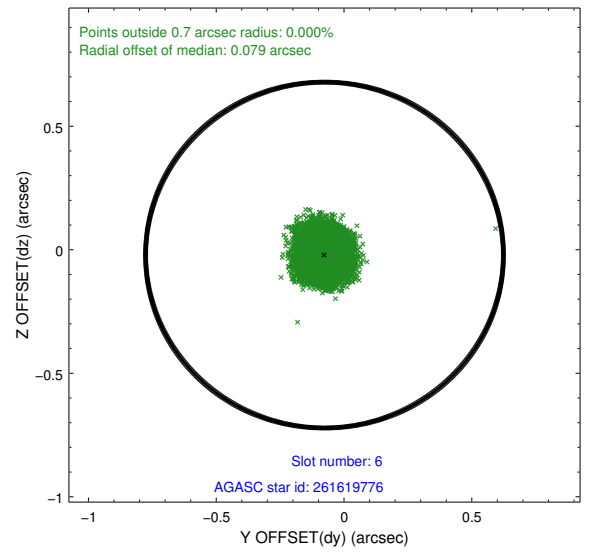
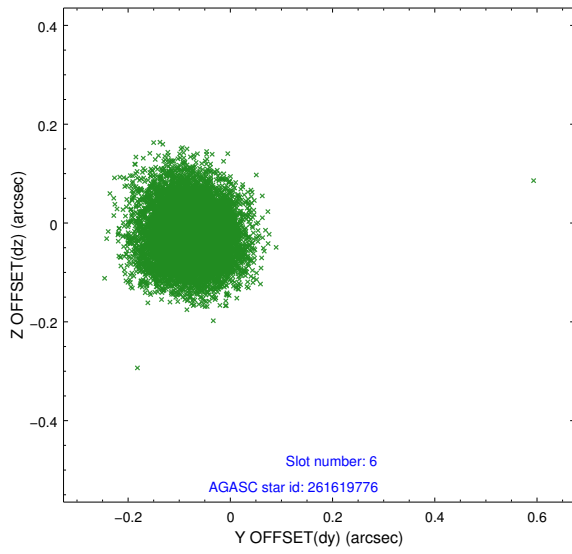
2.4.2 Slot 4



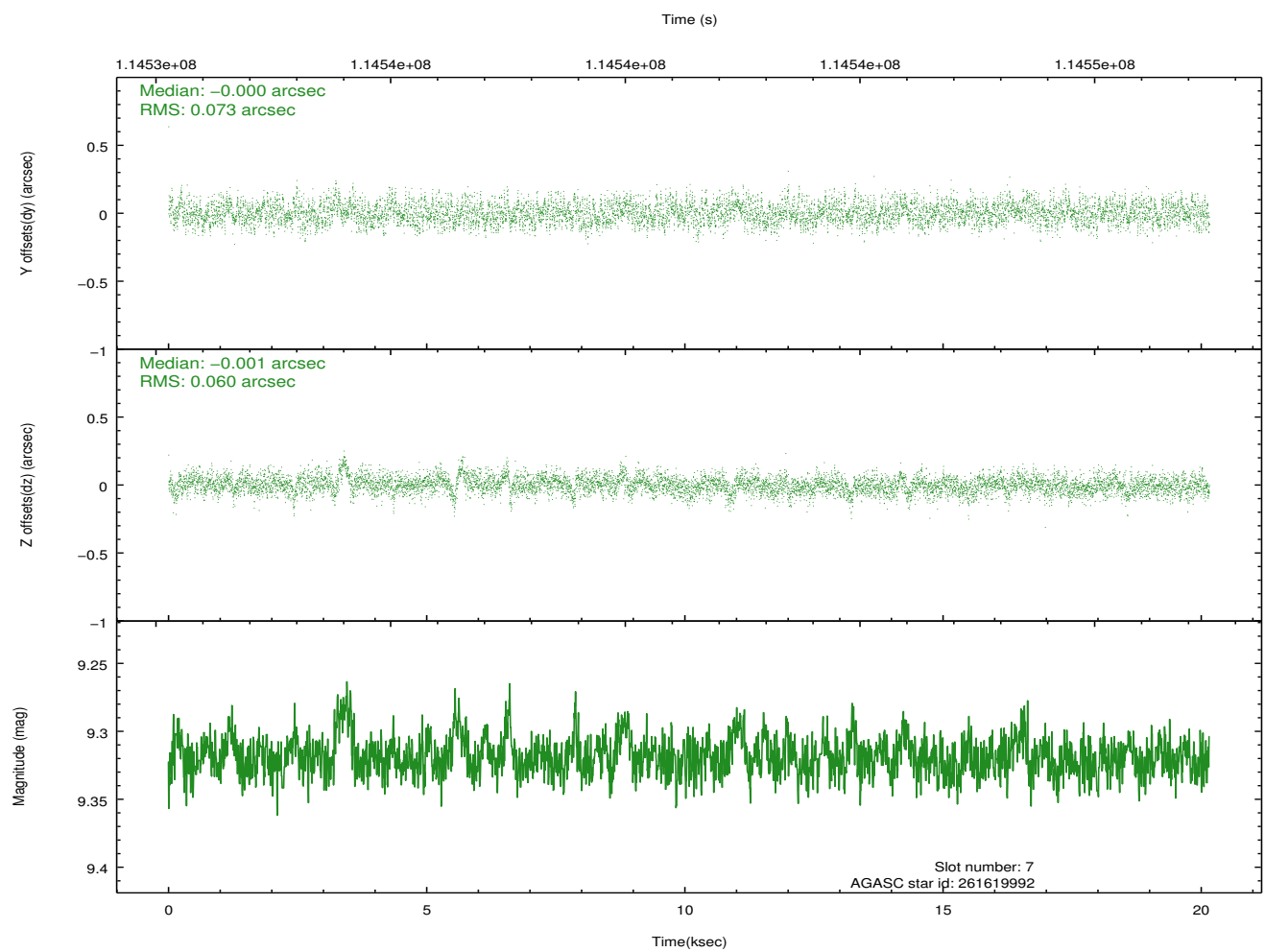
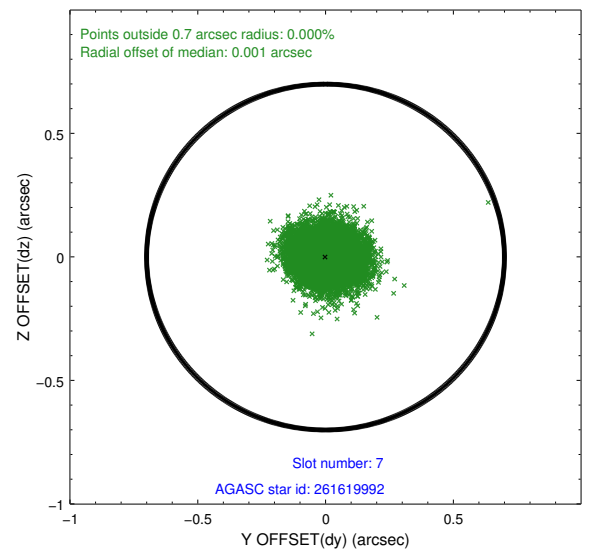
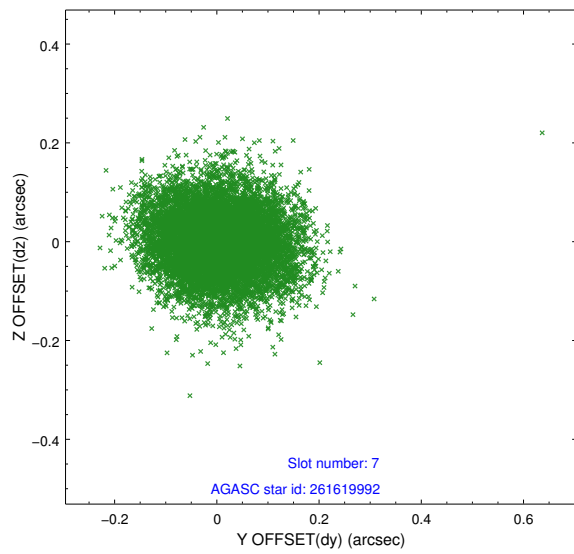
2.4.3 Slot 5



2.4.4 Slot 6

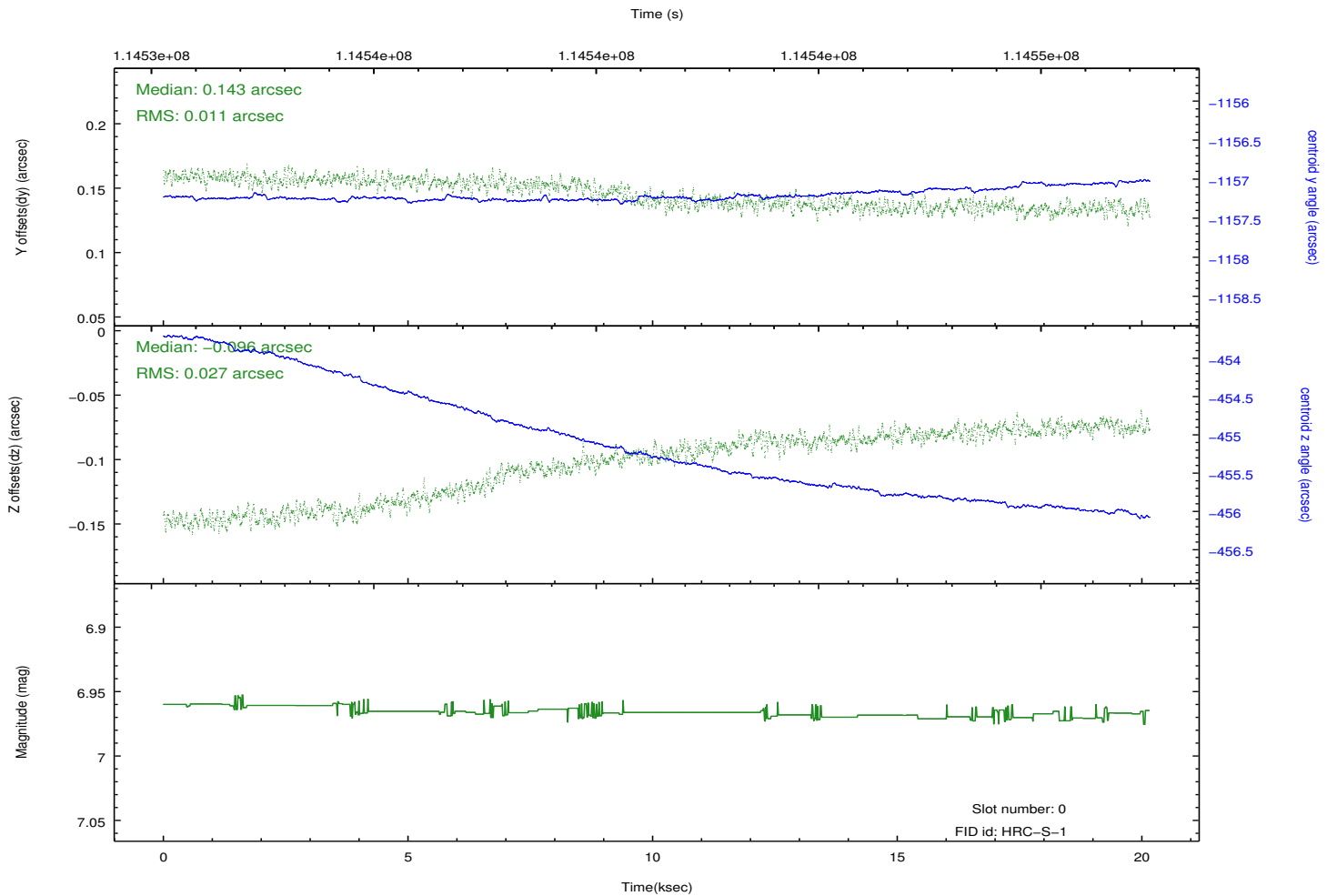
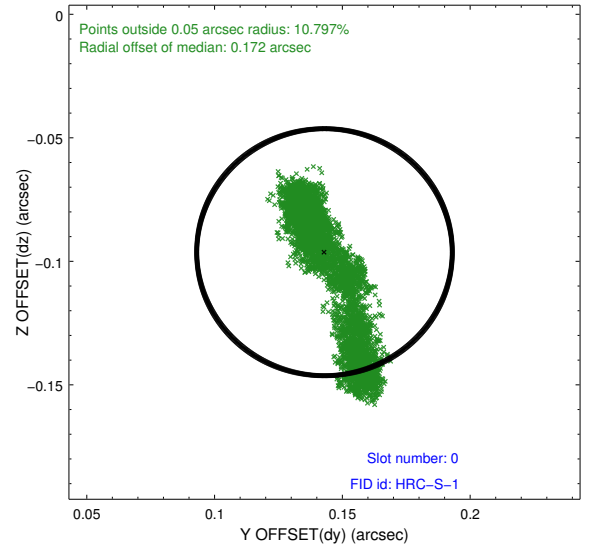
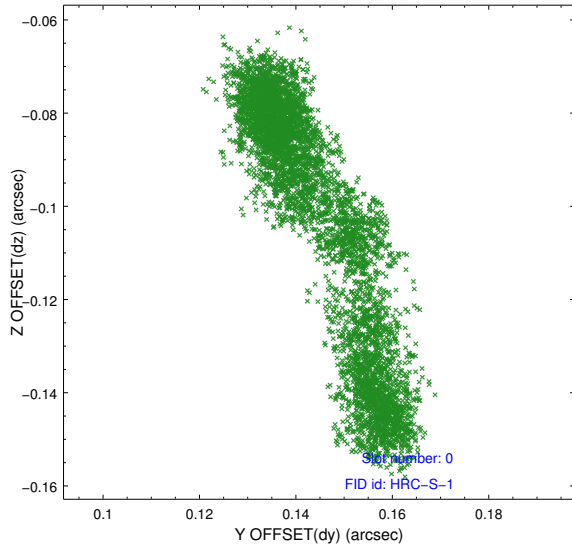


2.4.5 Slot 7

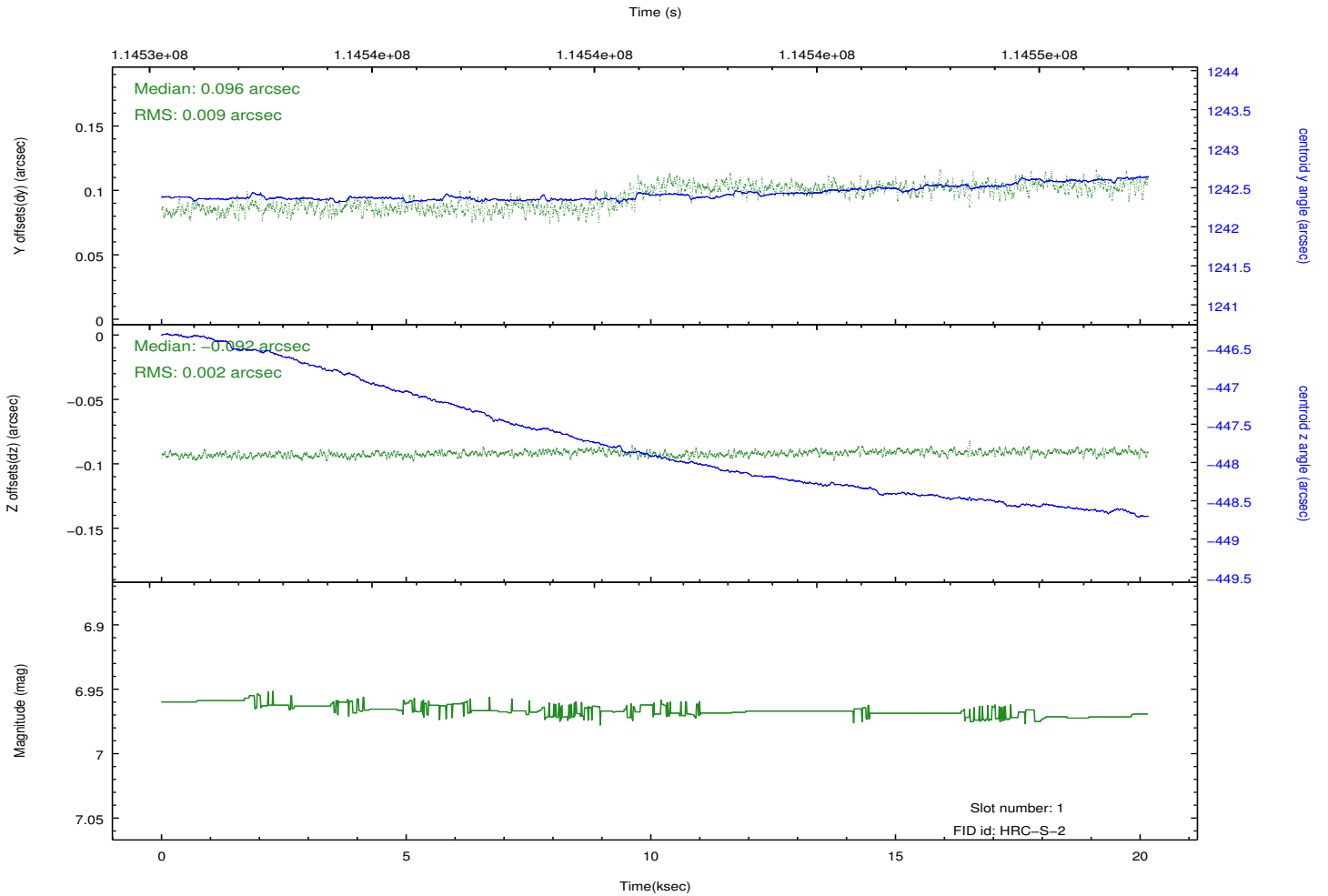
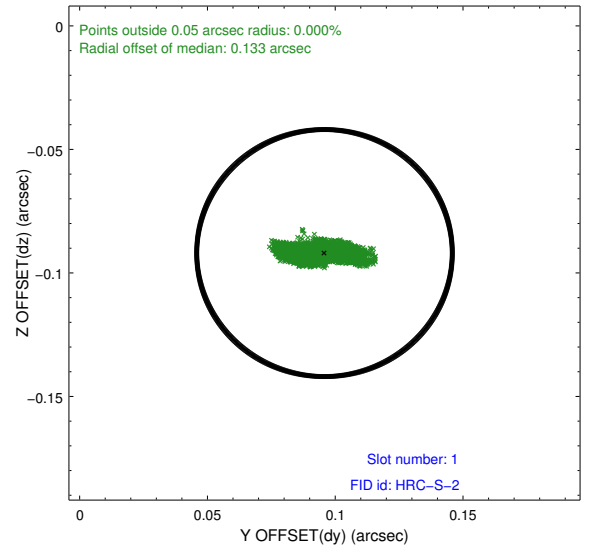
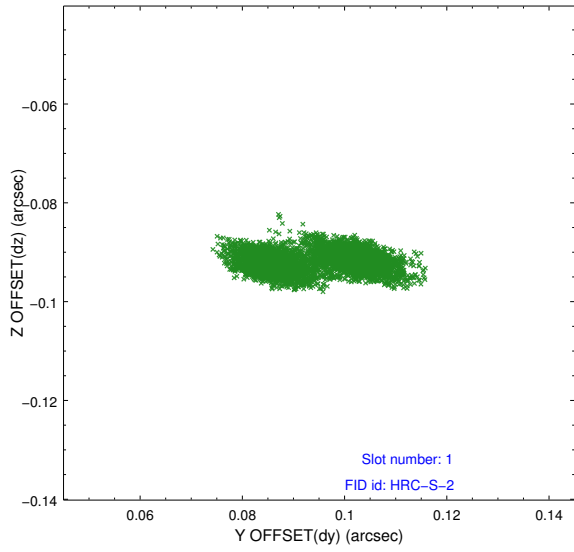


2.5 FID Slots

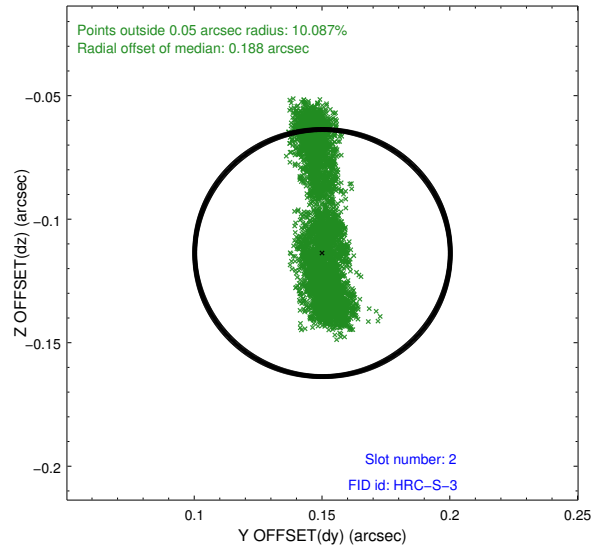
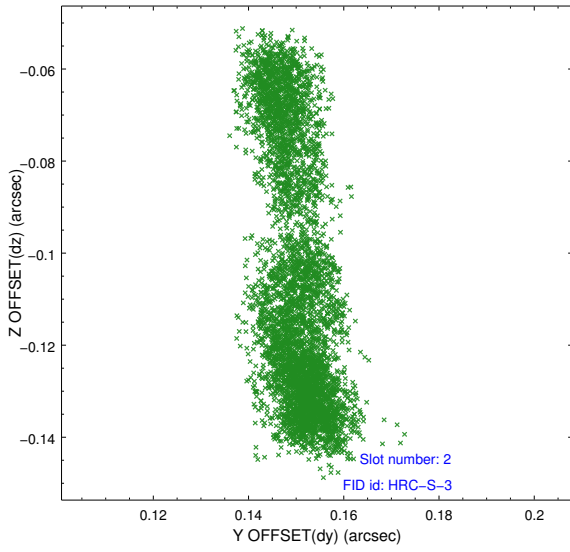
2.5.1 Slot 0



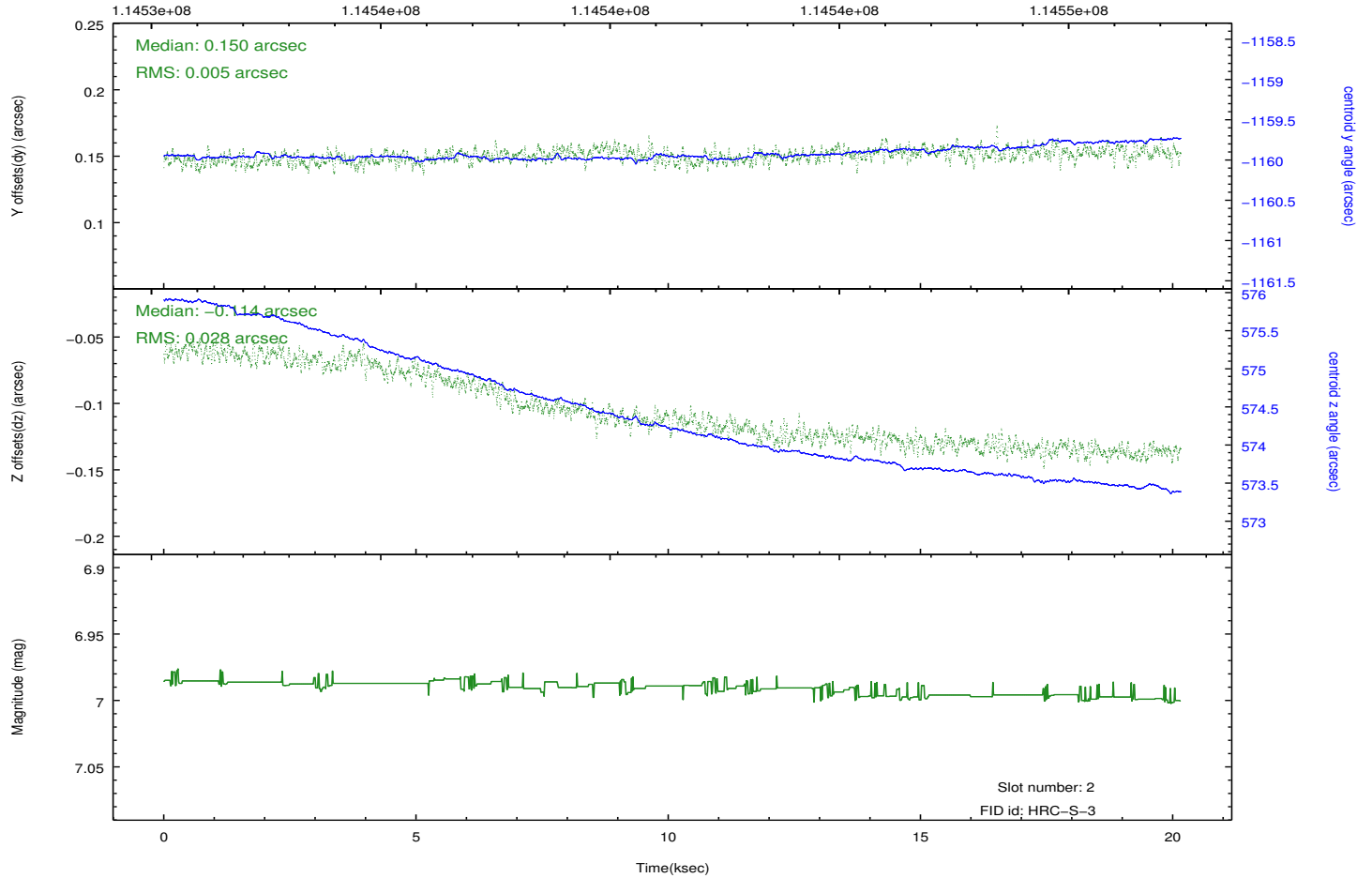
2.5.2 Slot 1



2.5.3 Slot 2

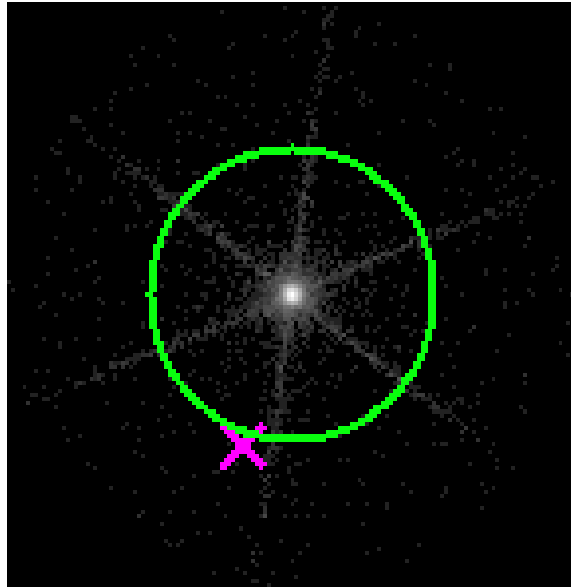


Time (s)

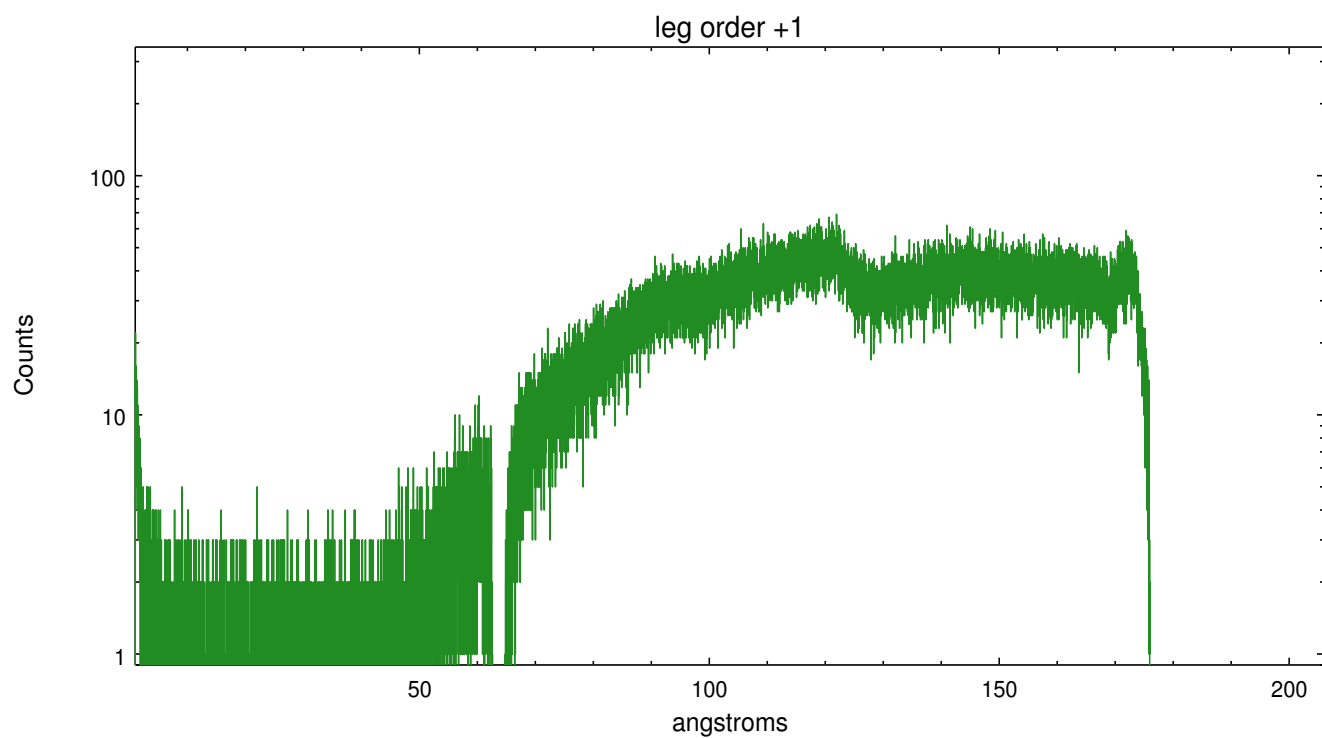
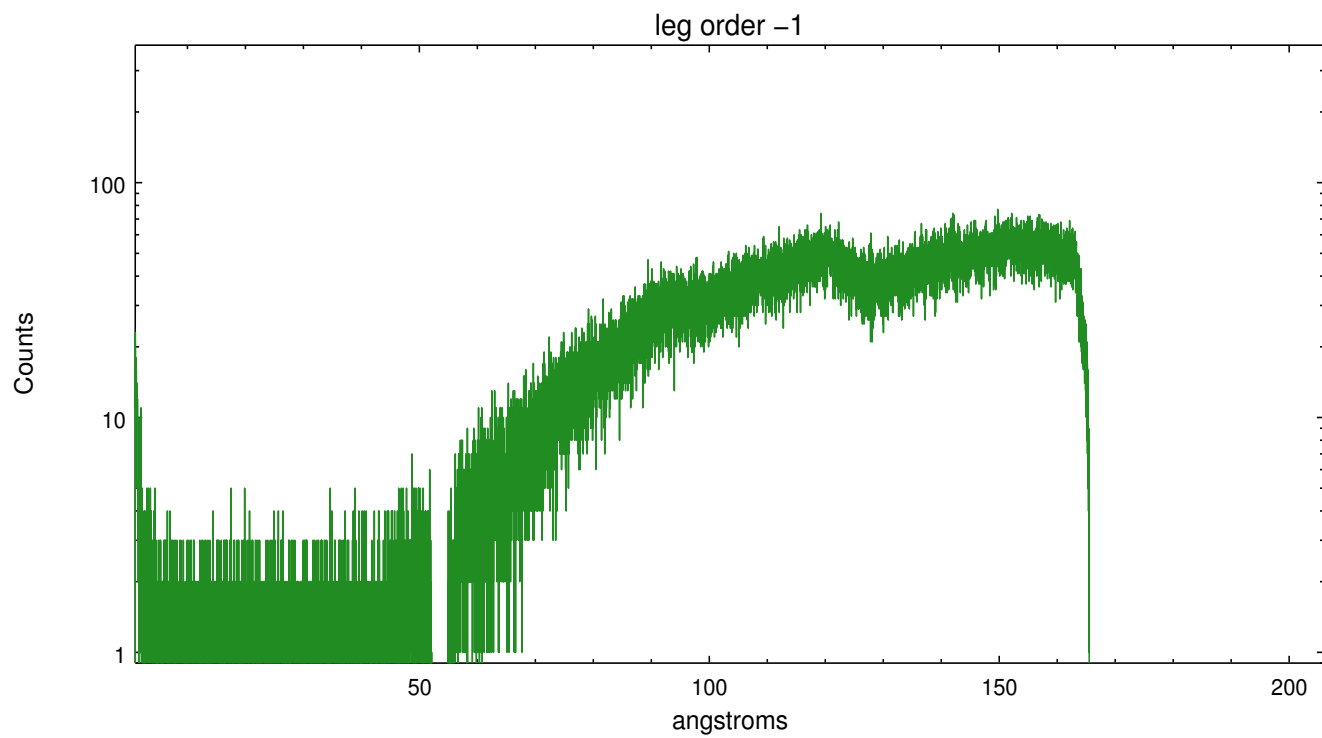


3 Gratings

3.1 LETG Arm



LETG Zero Order



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.09.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.152

A.2 Comments