

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 6138 - L2 Version 4
Chandra X-Ray Center

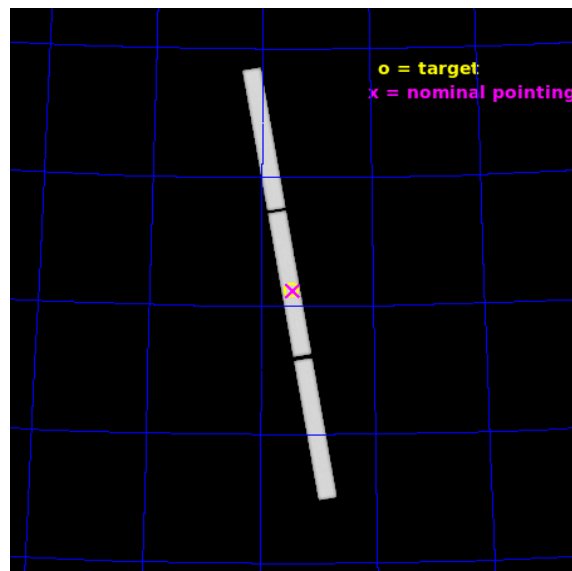
L2 Processing Date : Oct 11 2020

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1 Front

seq_num	200330	Sequence number
obs_id	6138	Observation id
title	The location and spatial structure of the X-ray emitting plasma in the magnetically confined environment of beta Cep	Proposal title
observer	Dr Coralie Neiner	Principal investigator
object	beta Cep	Source name
ra_targ	322.165	Observer's specified target RA [deg]
dec_targ	70.560717	Observer's specified target Dec [deg]
ra_nom	322.154634049	Nominal RA [deg]
dec_nom	70.559215362101	Nominal Dec [deg]
roll_nom	260.27387059806	Nominal Roll [deg]
revision	4	Processing version of data
ontime	29540.757612228	[s]
livetime	29193.366528155	Ontime multiplied by DTCOR
l2events	1865731	Number of level 2 events

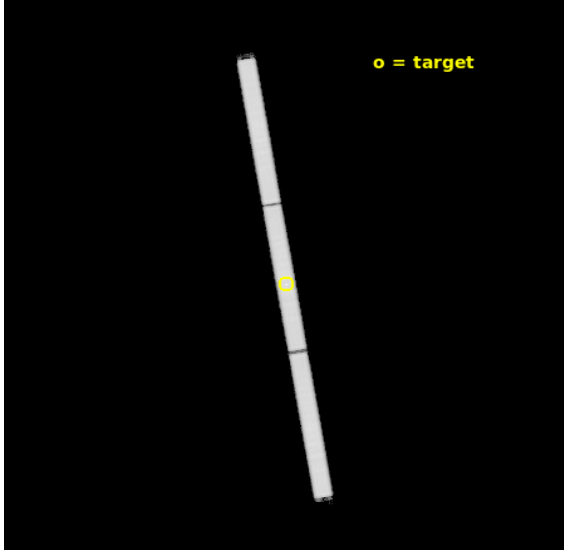


2 OBI

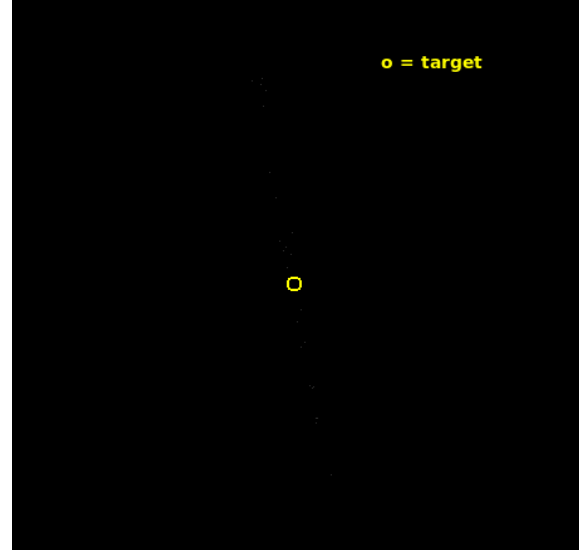
2.1 OBI

2.1.1 Images

Level 1 Image



Level 1 Bad Events



2.1.2 Parameters

obi_num	0	Obi number	sched_exp_time	28977.366000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	29540.757612228	[s]
caldsver	4.9.2	 	l1events	2577505	Number of level 1 events
date	2020-10-11T13:50:18	Date and time of file creation	tgmethod	TGDETECT	Method used to create src1a file
revision	4	Processing version of data	zo_pos	(32677.51, 32809.96)	src1a sky pixel position

2.1.3 Events

Level 1 Events

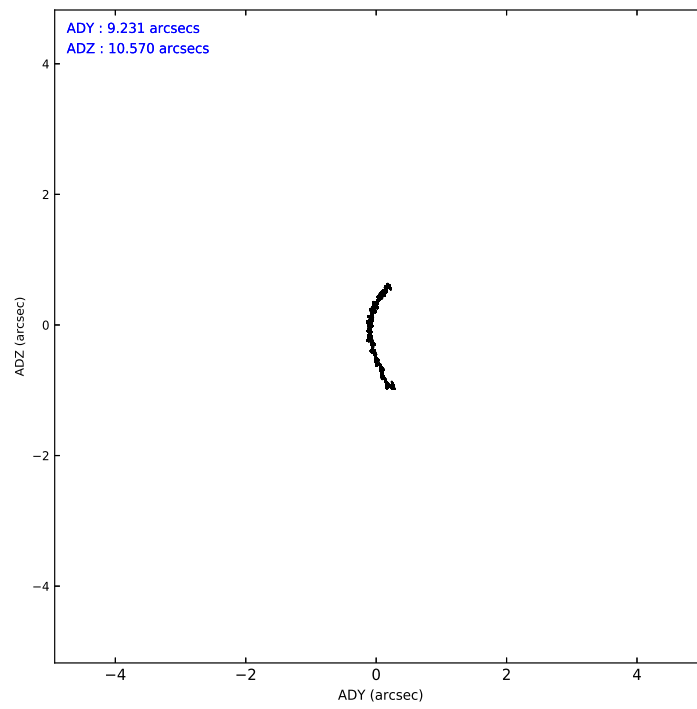
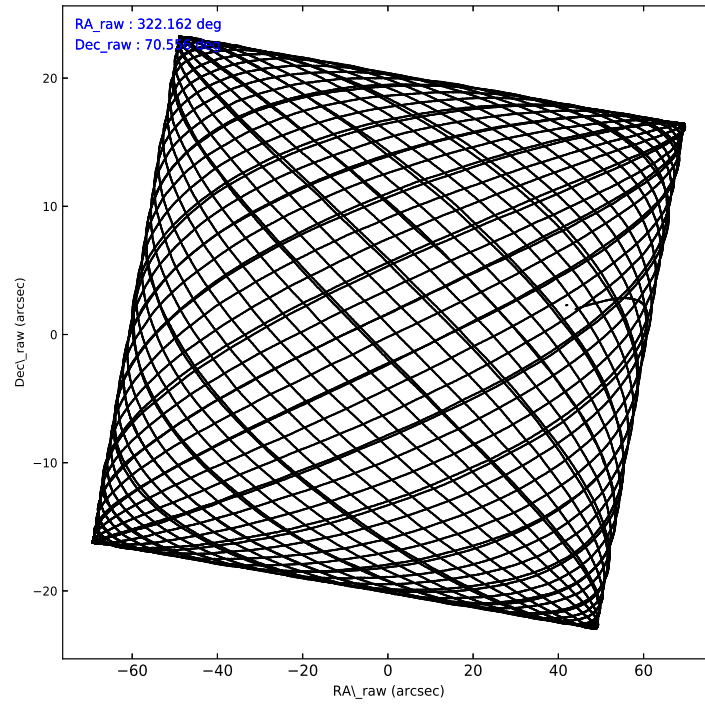
	segment 1	segment 2	segment 3
level 1 events	870494	844219	862792
rejected events	22043	20986	22216
rejected %	2%	2%	2%

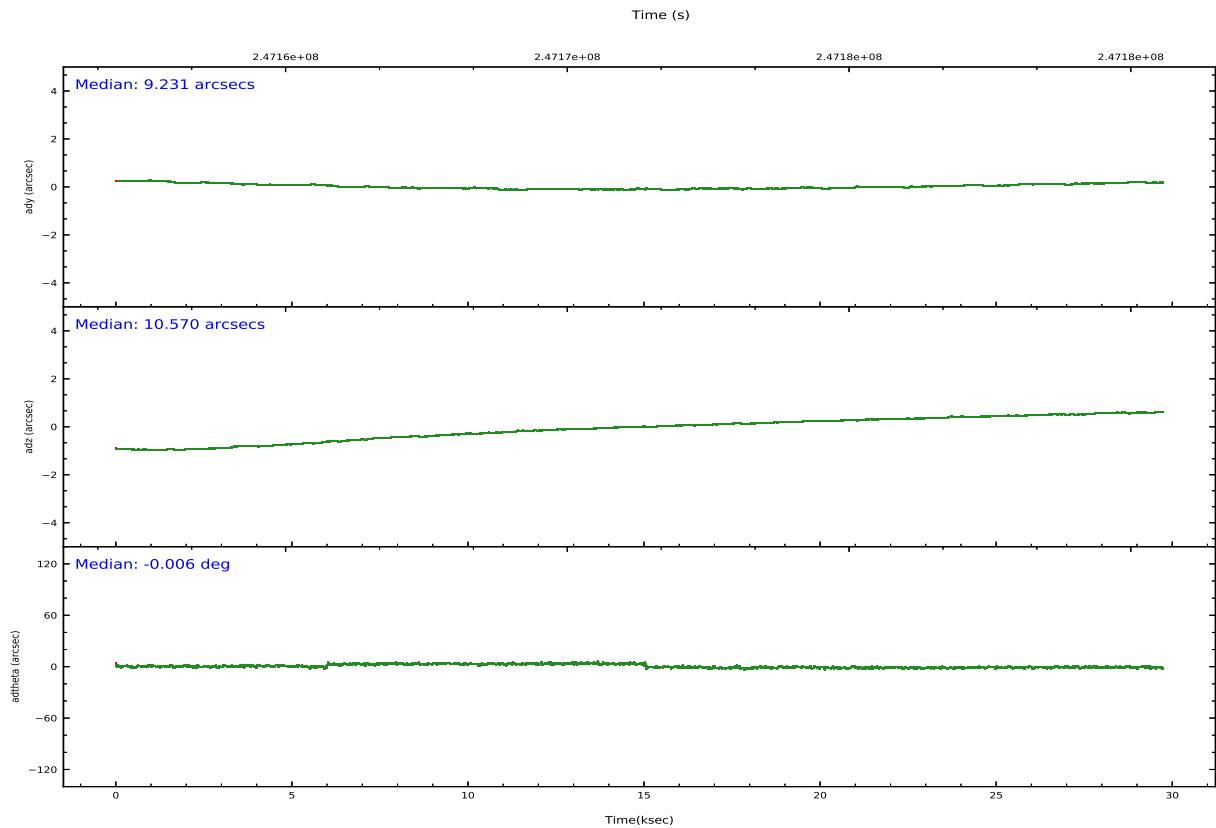
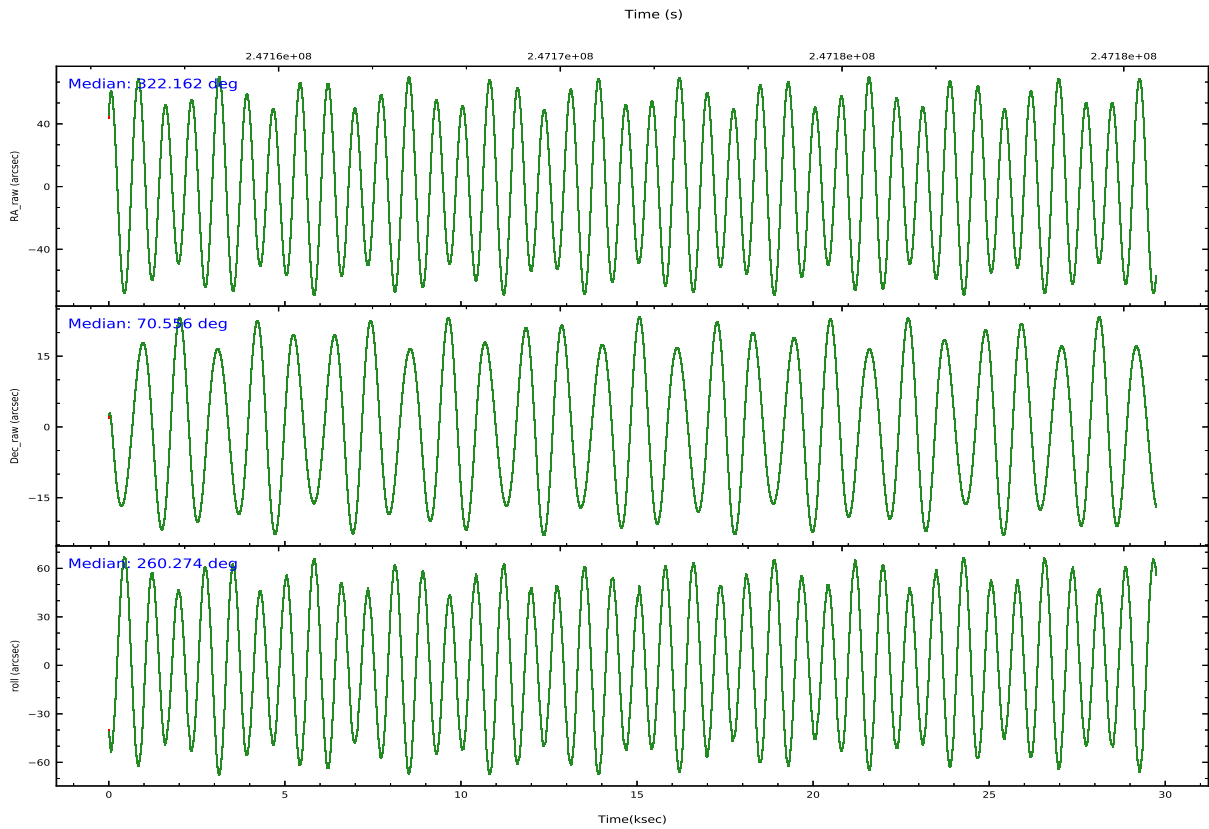
2.2 Compared Parameters

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	322.128446	322.154634049
[deg] Pointing Dec	70.582433	70.559215362101
[deg] Pointing Roll	260.234471	260.27387059806
[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
Phase constraints	Y	Y
[d] Phase period	12.000750	12.000750
[d] Phase epoch (MJD)	53962.310000	53962.310000
Phase start	0.216245	0.216245
Phase end	0.283755	0.283755
Phase start error	0.020000	0.020000
Phase end error	0.020000	0.020000
[s] Observation start time (MET)	247155342.184000	247154394.47069
Observation start date	2005-10-31T14:14:38	2005-10-31T13:59:54
[s] Observation end time (MET)	247184319.184000	247184920.5096
Observation end date	2005-10-31T22:17:35	2005-10-31T22:28:40

Parameter	Planned	Actual
Obspar version number	8	8
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED

2.3 Aspect





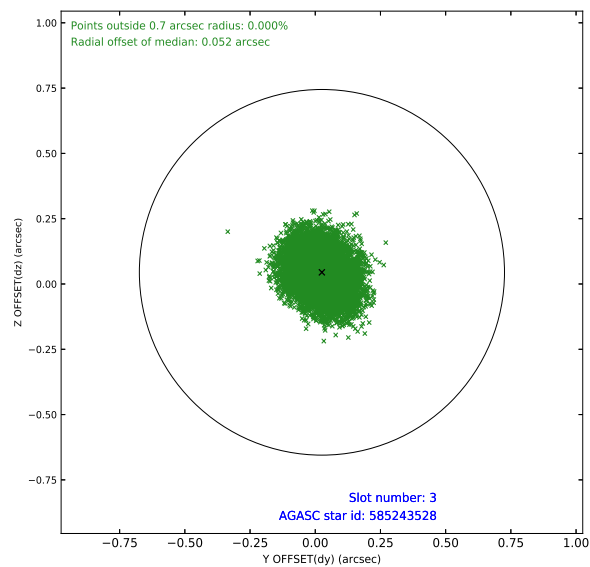
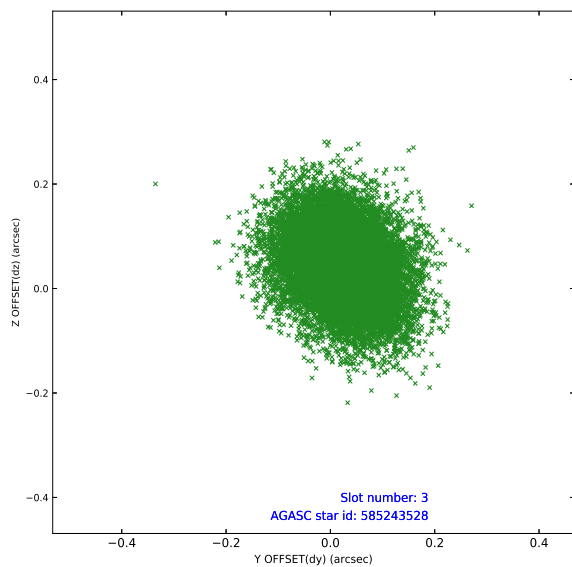
Slot Statistics

slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		HRC-S-1	7.02	7254	1.000	0.059	-0.144	0.008	0.014	0.000000	0.000000	-1163.51	-459
1	FID		HRC-S-2	7.01	7255	1.000	0.111	-0.155	0.030	0.042	0.000000	0.000000	1236.06	-451
2	FID		HRC-S-4	6.99	7254	1.000	0.232	-0.005	0.028	0.038	0.000000	0.000000	1235.05	573
3	GUIDE	used	585243528	9.32	14500	1.000	0.026	0.045	0.098	0.160	323.001841	70.190189	1203.92	1288
4	GUIDE	used	585244656	7.48	14507	1.000	-0.076	-0.049	0.072	0.112	322.746463	70.823219	-981.74	572
5	GUIDE	used	585245544	7.37	14503	1.000	-0.059	-0.089	0.064	0.103	321.319997	70.477535	530.57	-895
6	GUIDE	used	585249712	9.18	14500	1.000	0.094	0.049	0.095	0.163	322.943679	70.596904	-222.78	950
7	GUIDE	used	585244168	9.02	14504	1.000	0.009	0.050	0.071	0.117	323.050612	69.955180	2023.99	1503

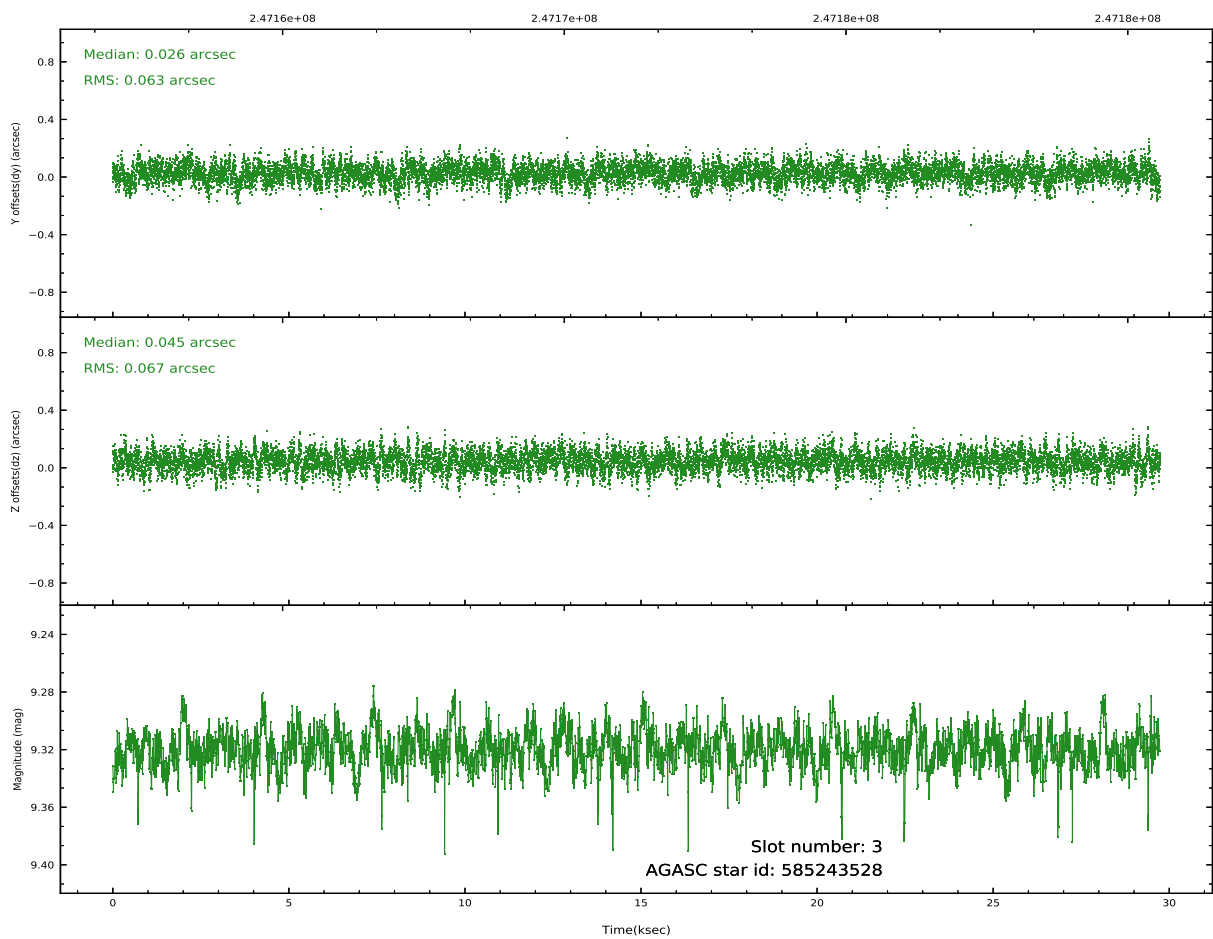
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2.4 Star Slots

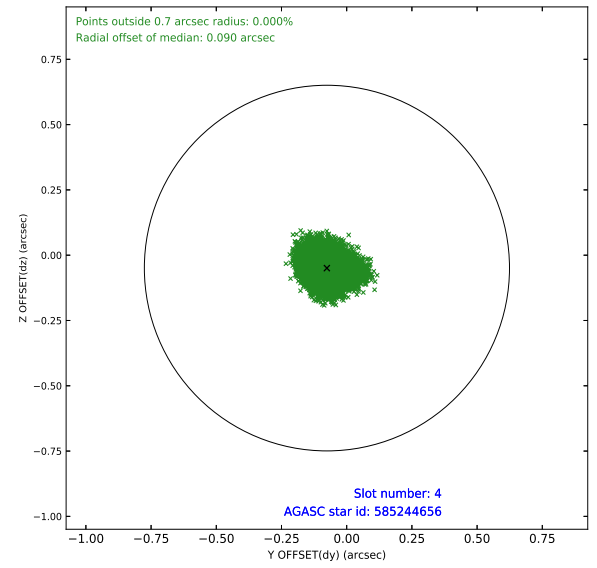
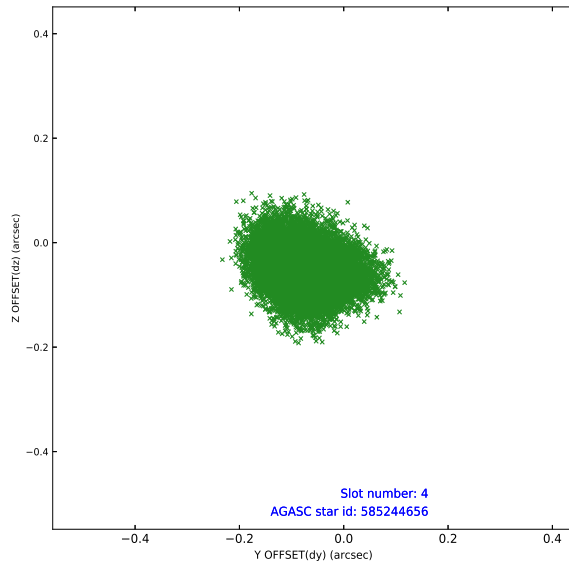
2.4.1 Slot 3



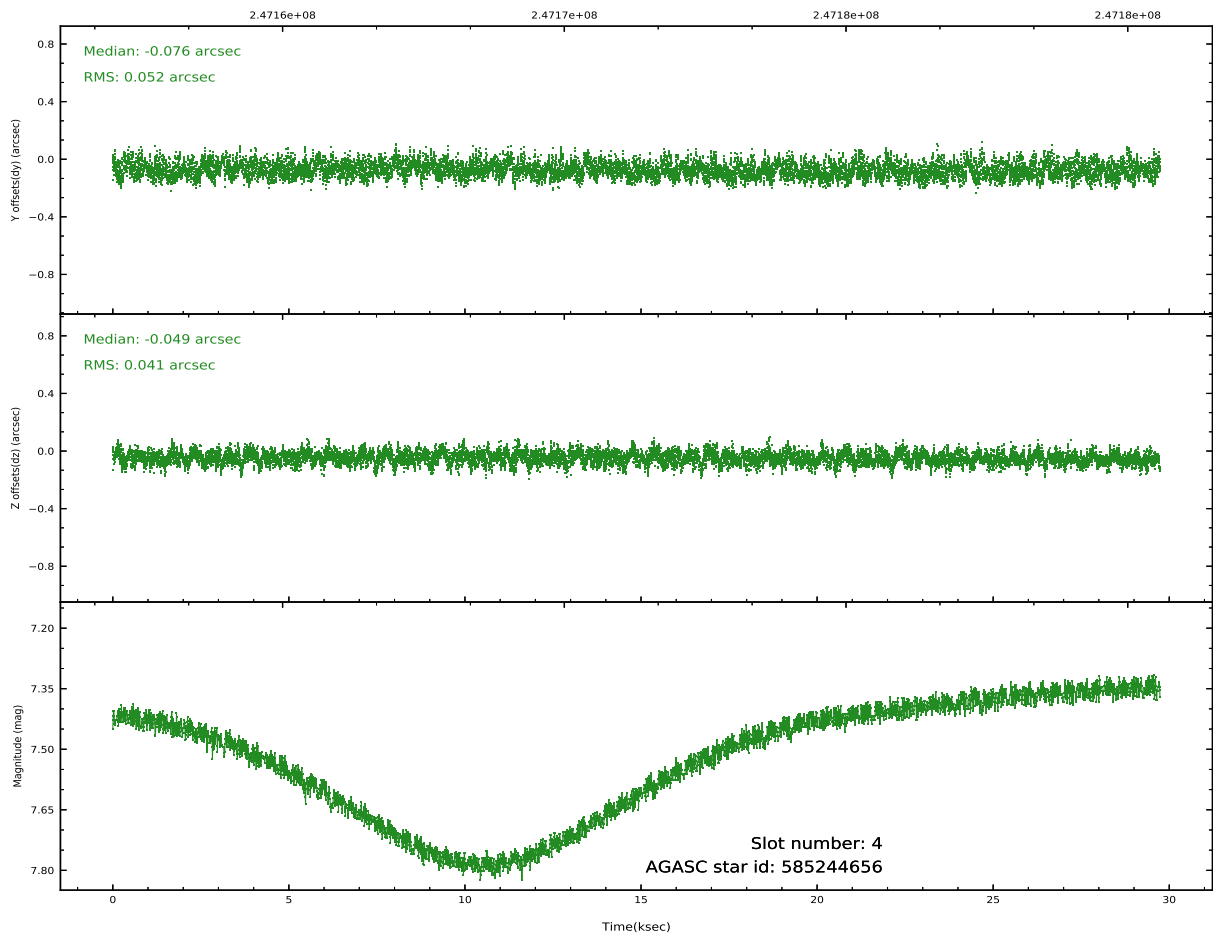
Time (s)



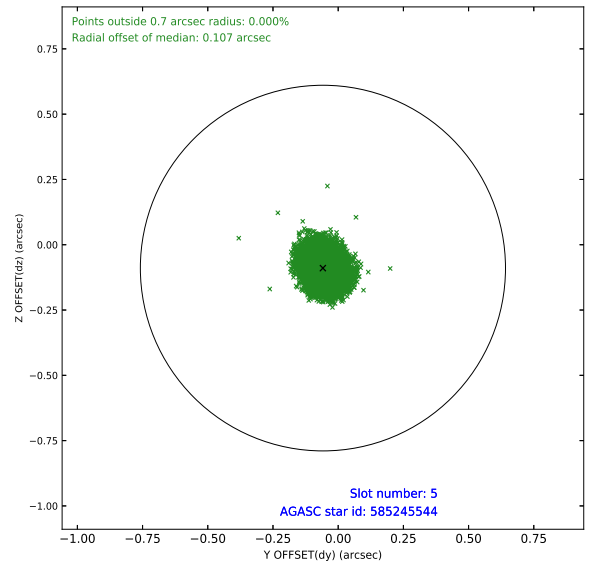
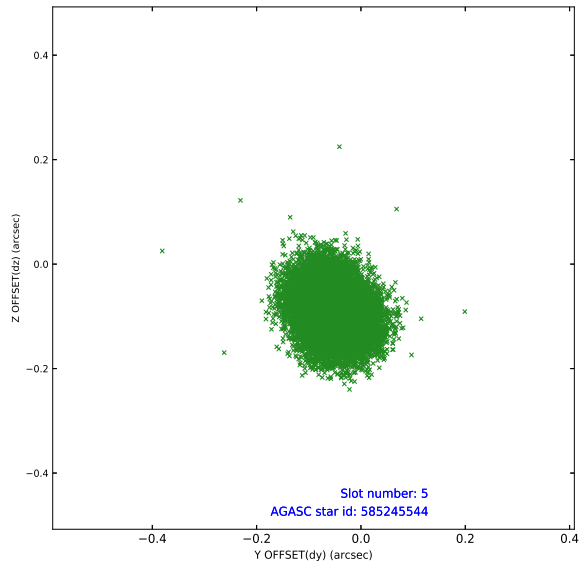
2.4.2 Slot 4



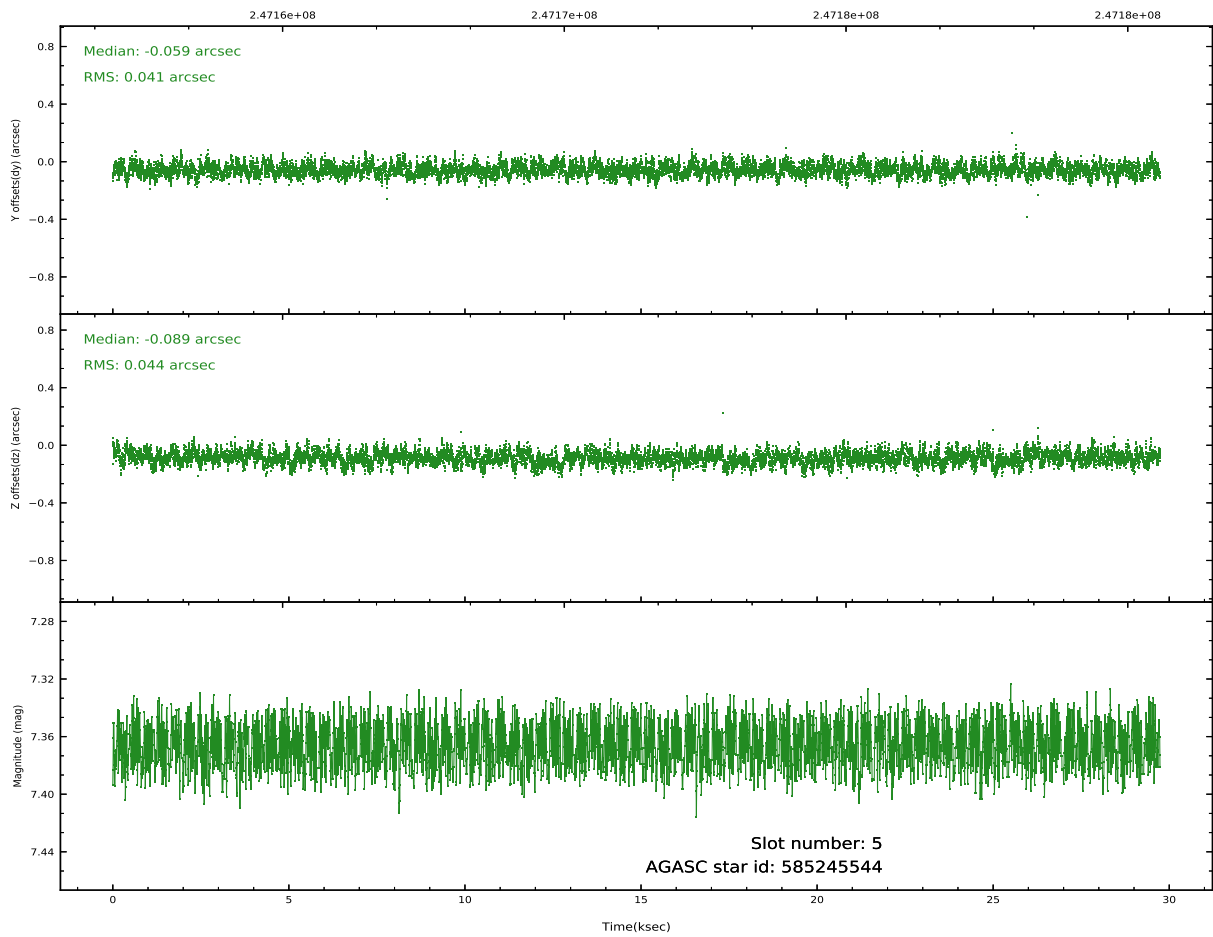
Time (s)



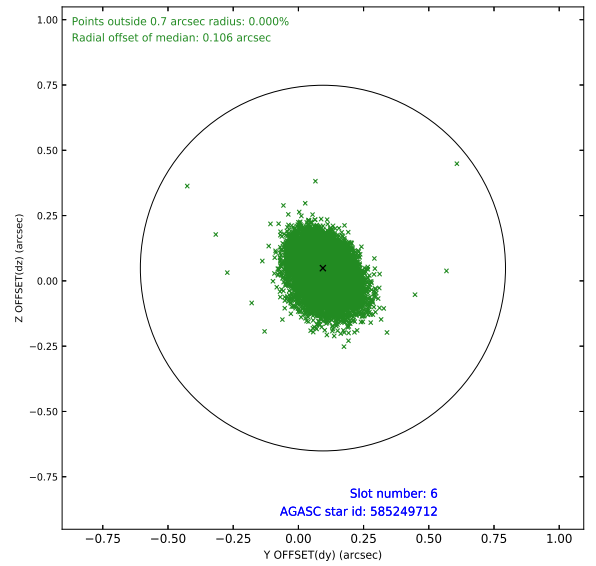
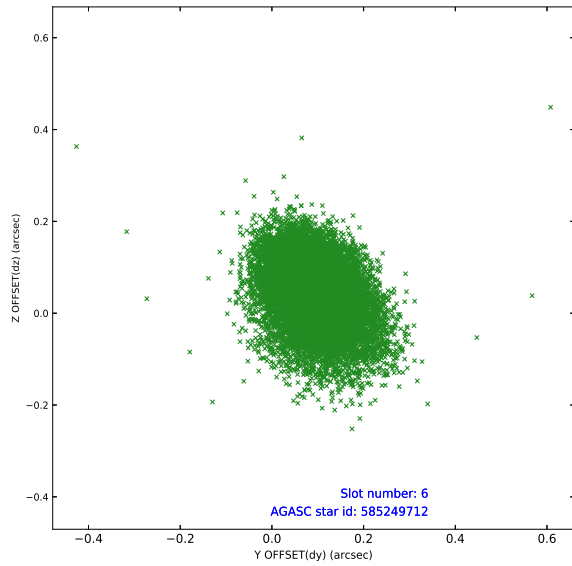
2.4.3 Slot 5



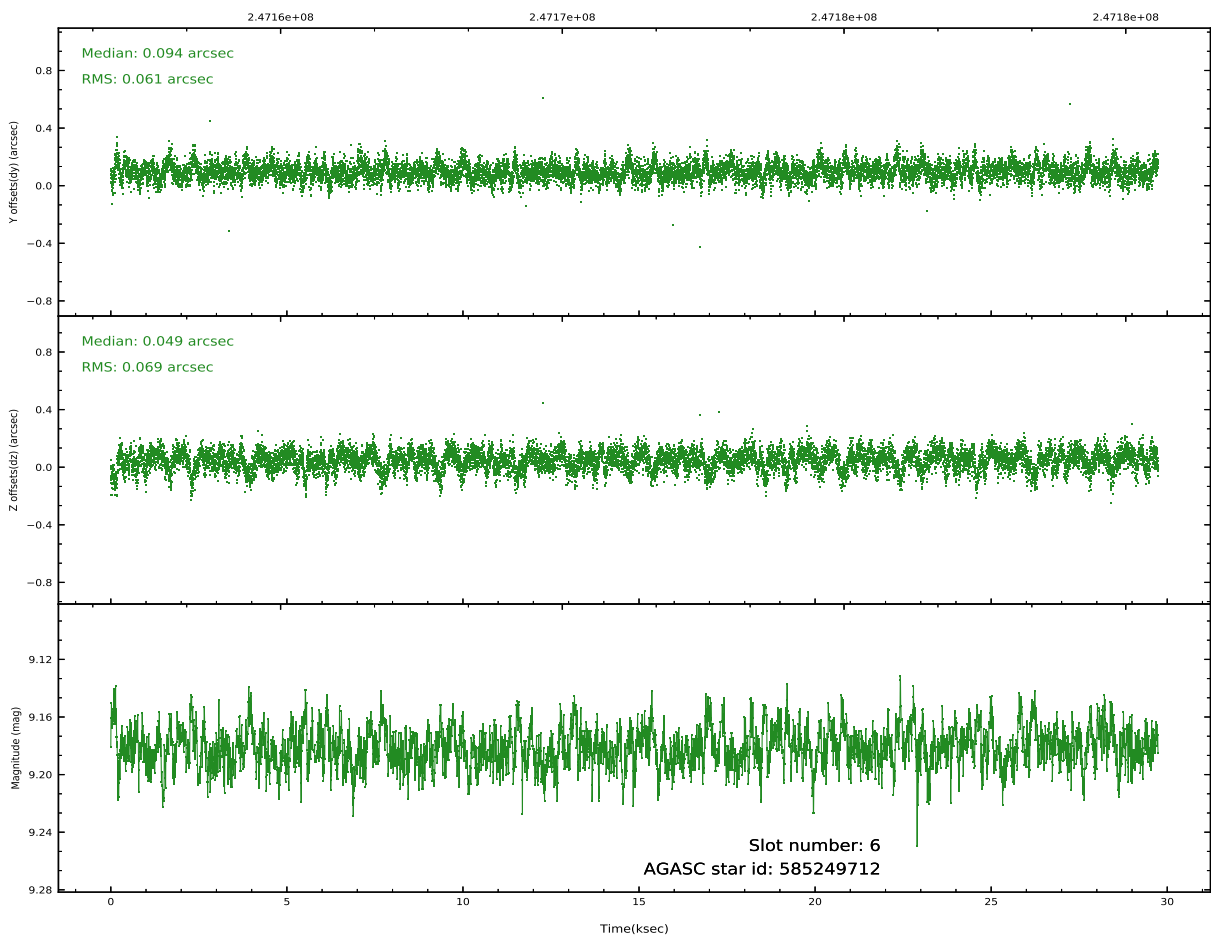
Time (s)



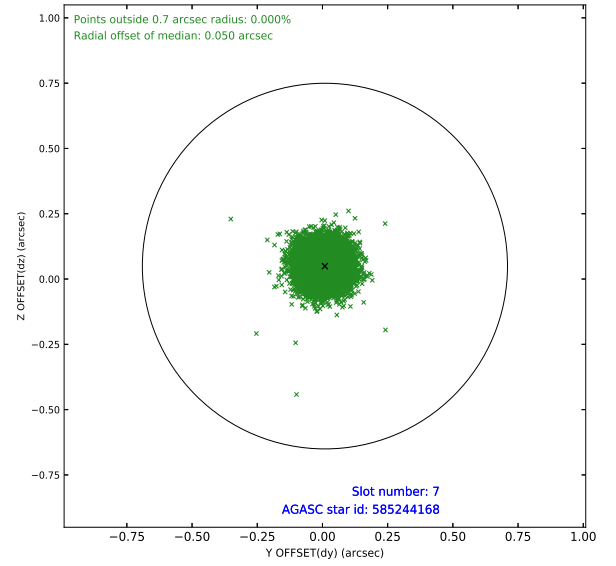
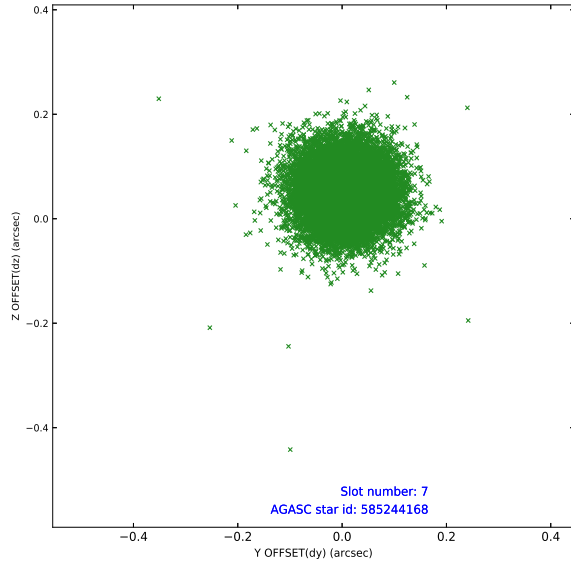
2.4.4 Slot 6



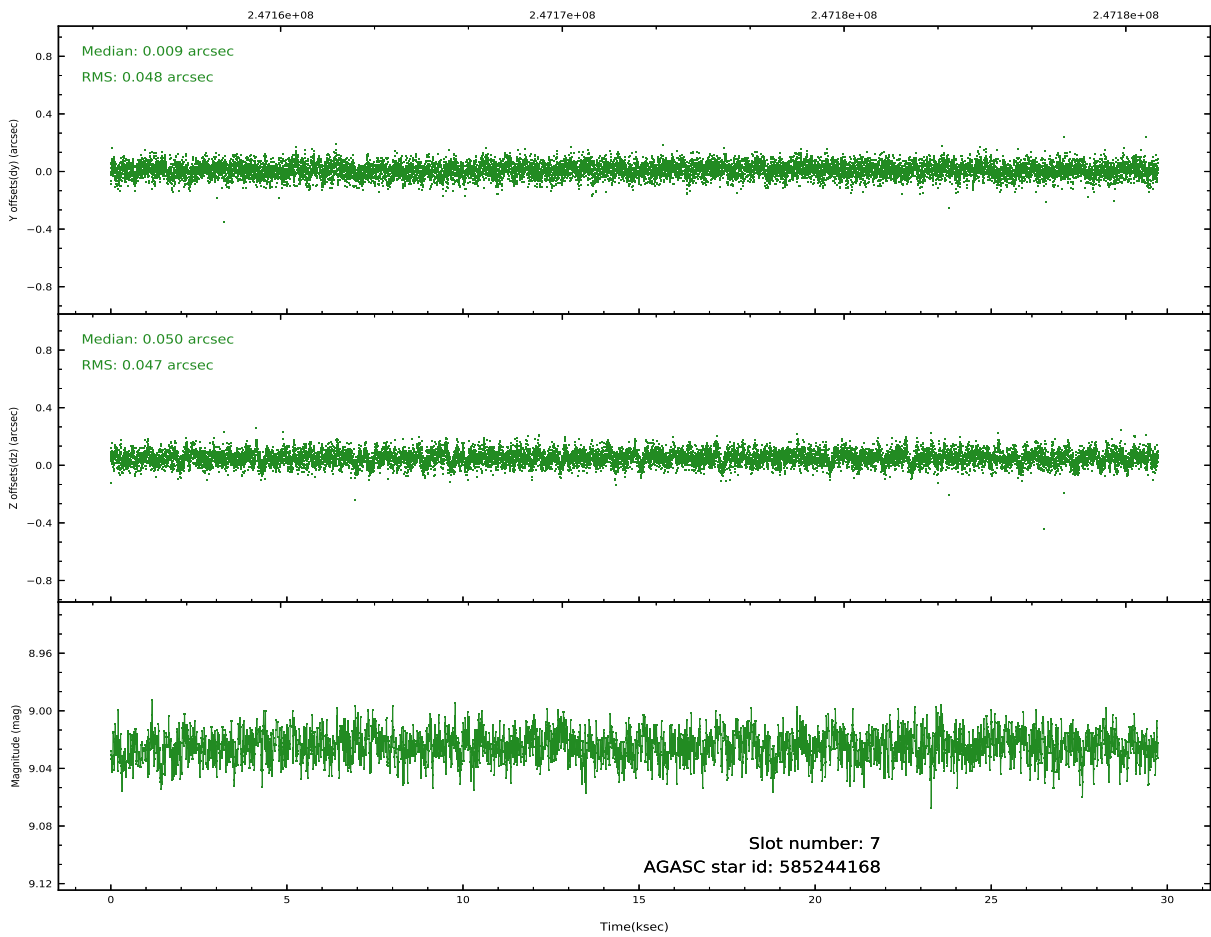
Time (s)



2.4.5 Slot 7

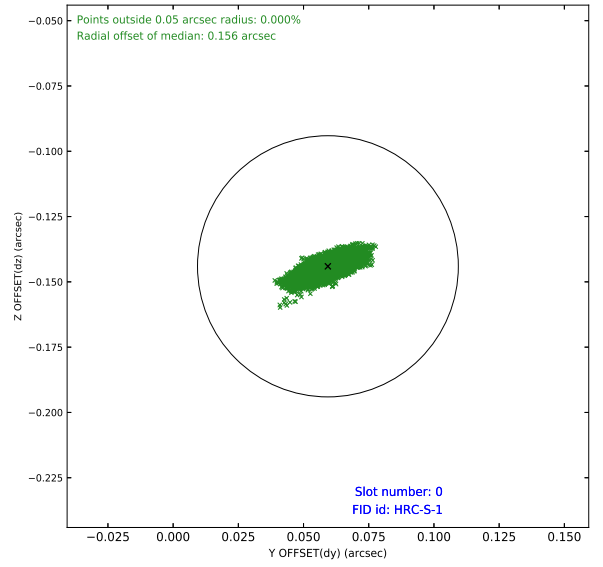
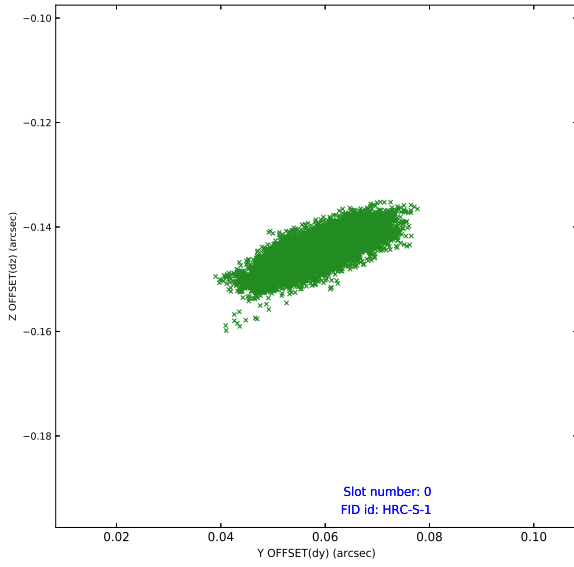


Time (s)

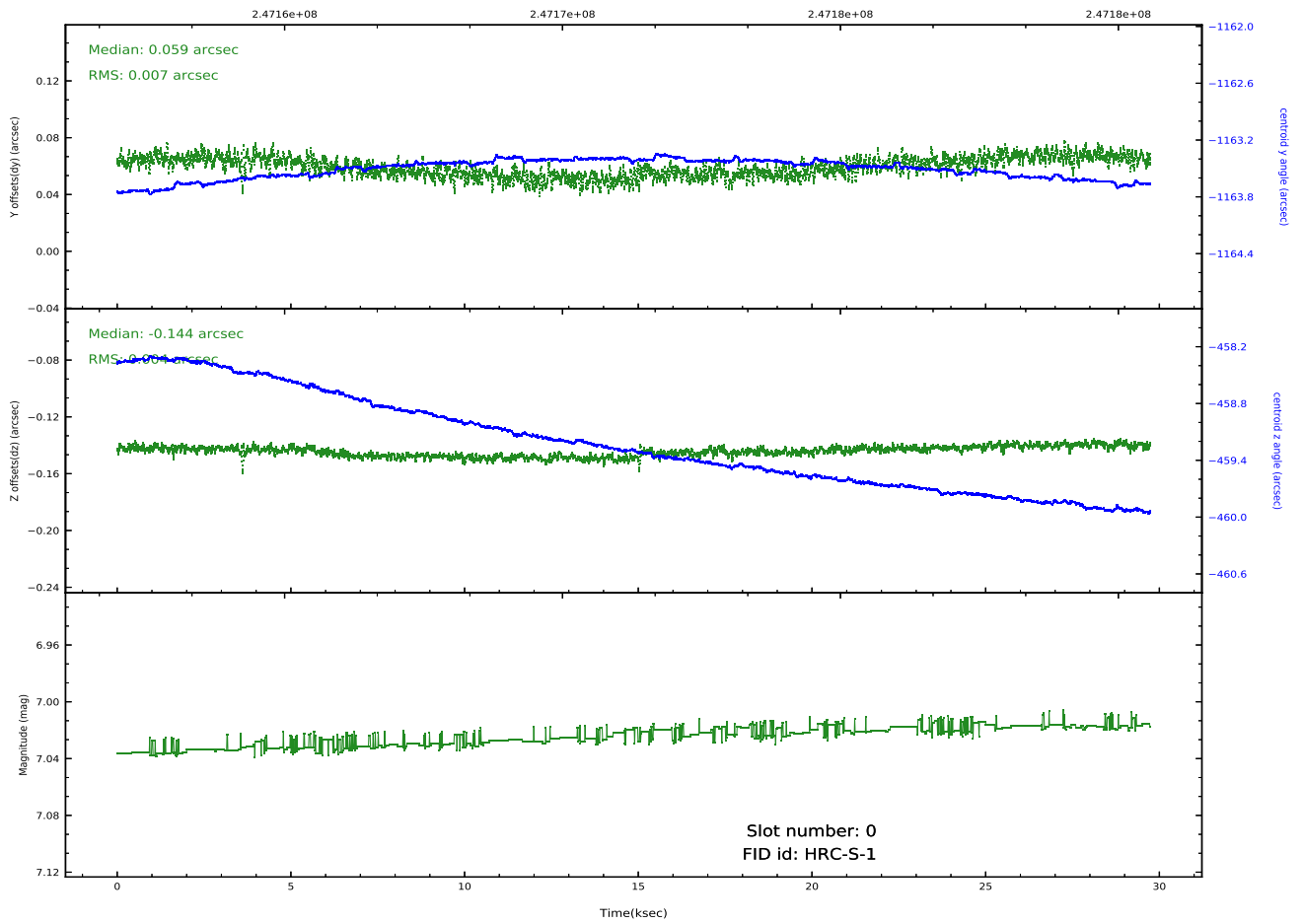


2.5 FID Slots

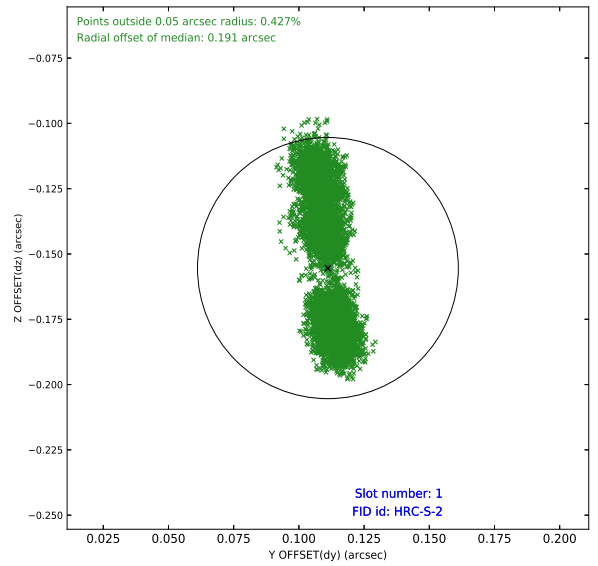
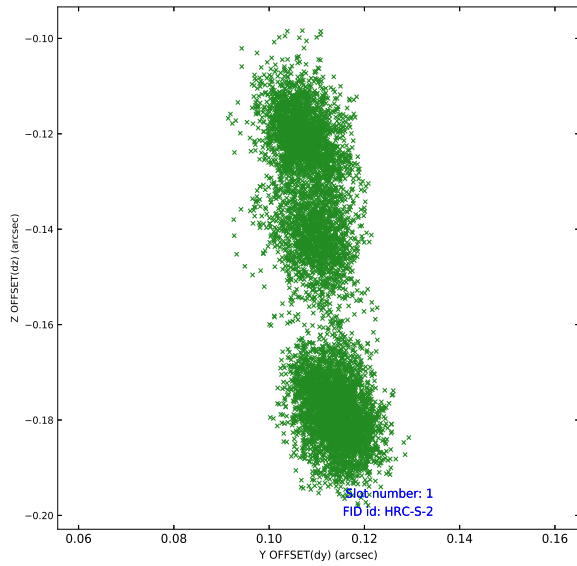
2.5.1 Slot 0



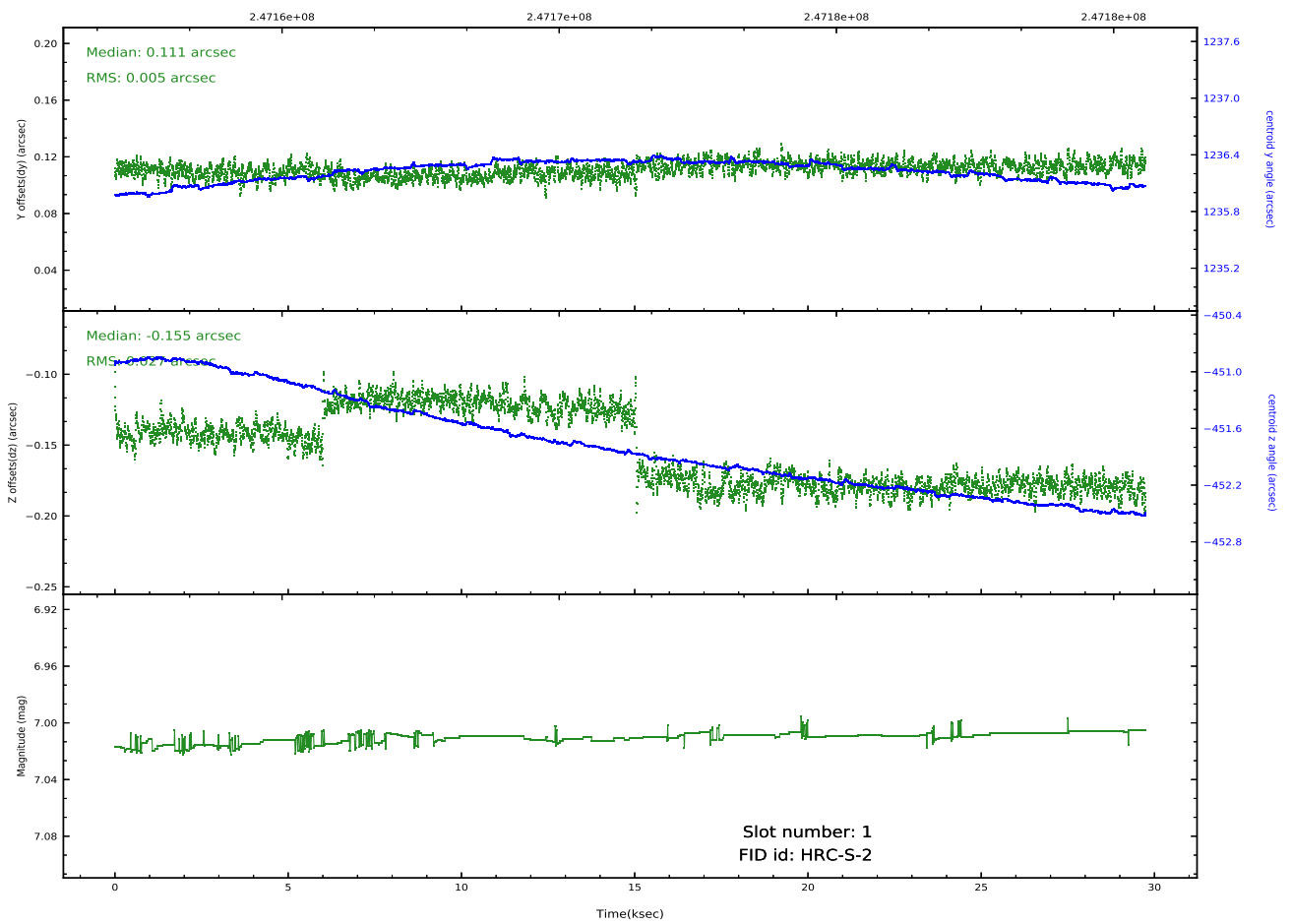
Time (s)



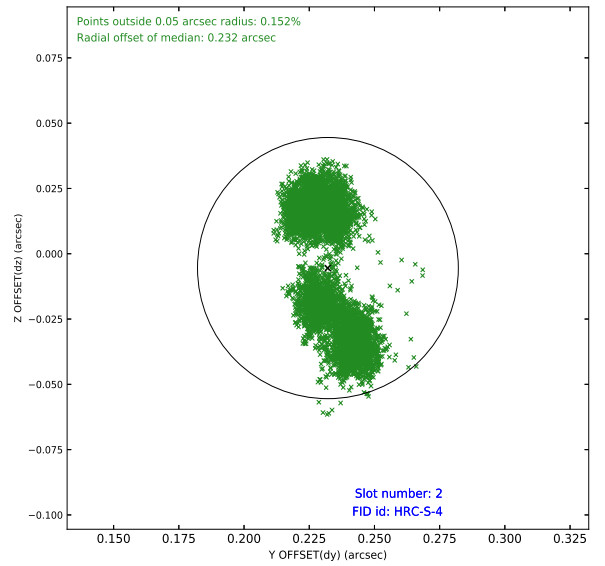
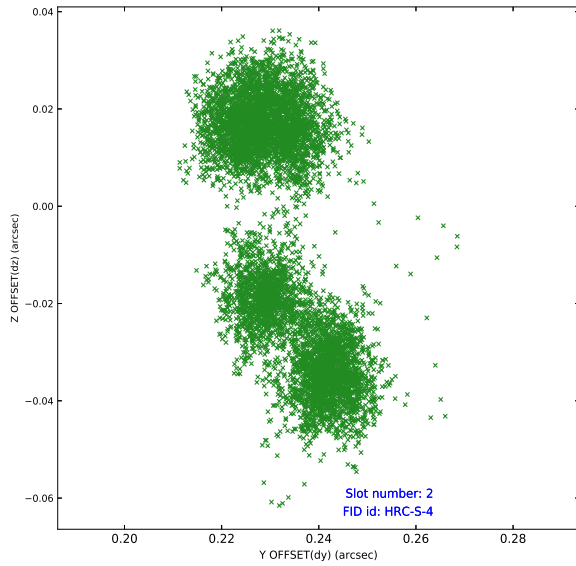
2.5.2 Slot 1



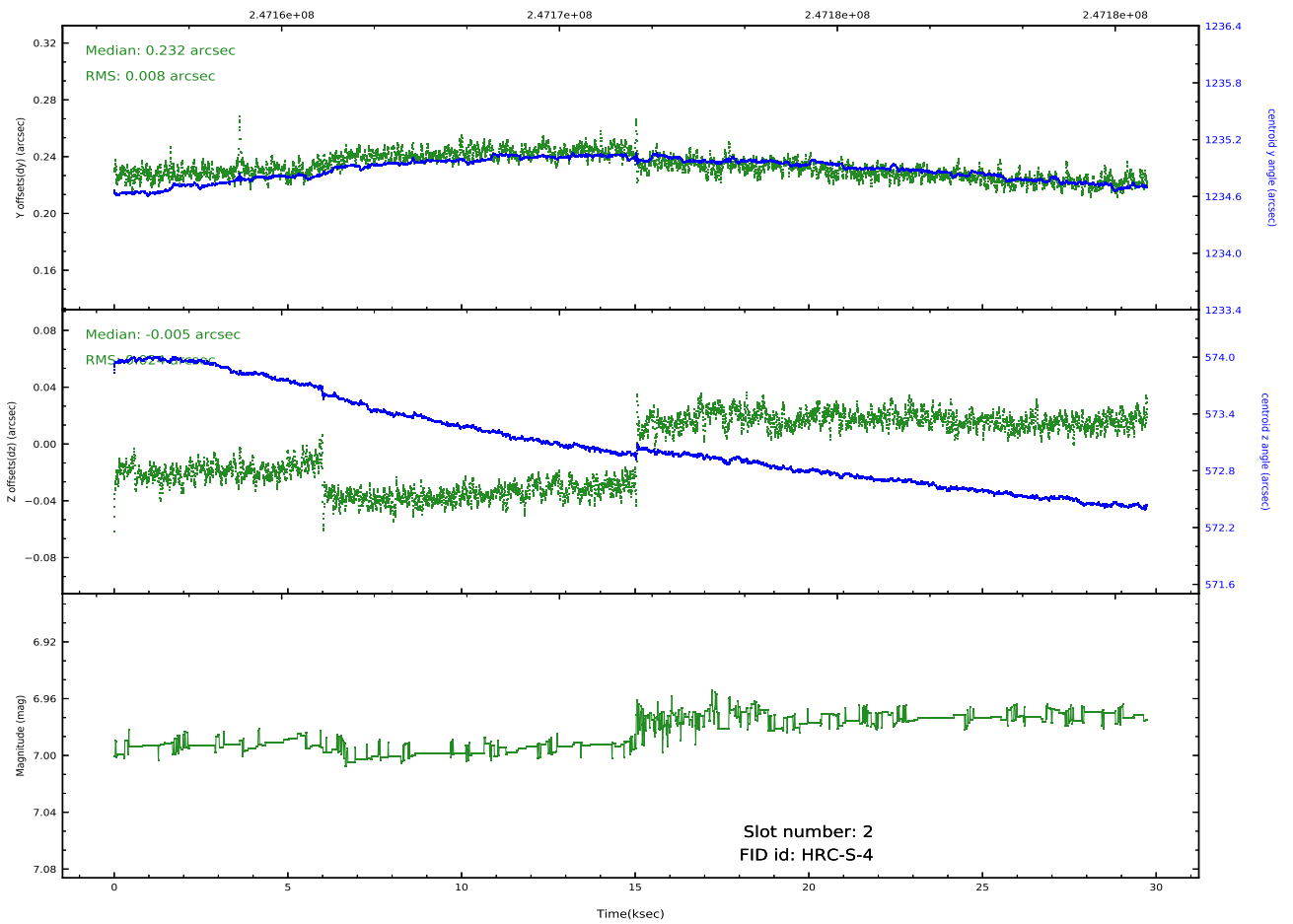
Time (s)



2.5.3 Slot 2

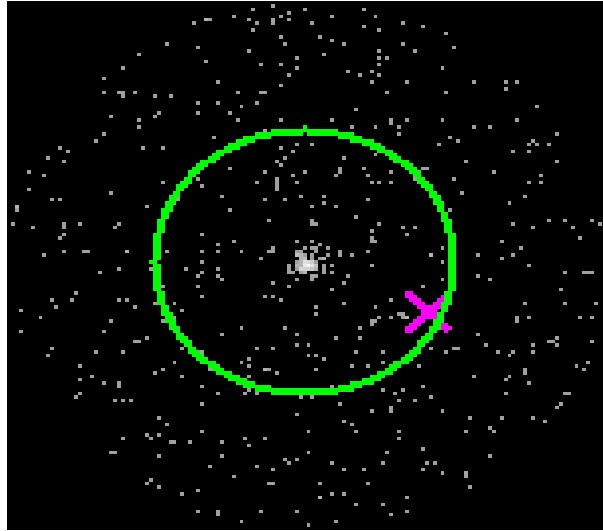


Time (s)

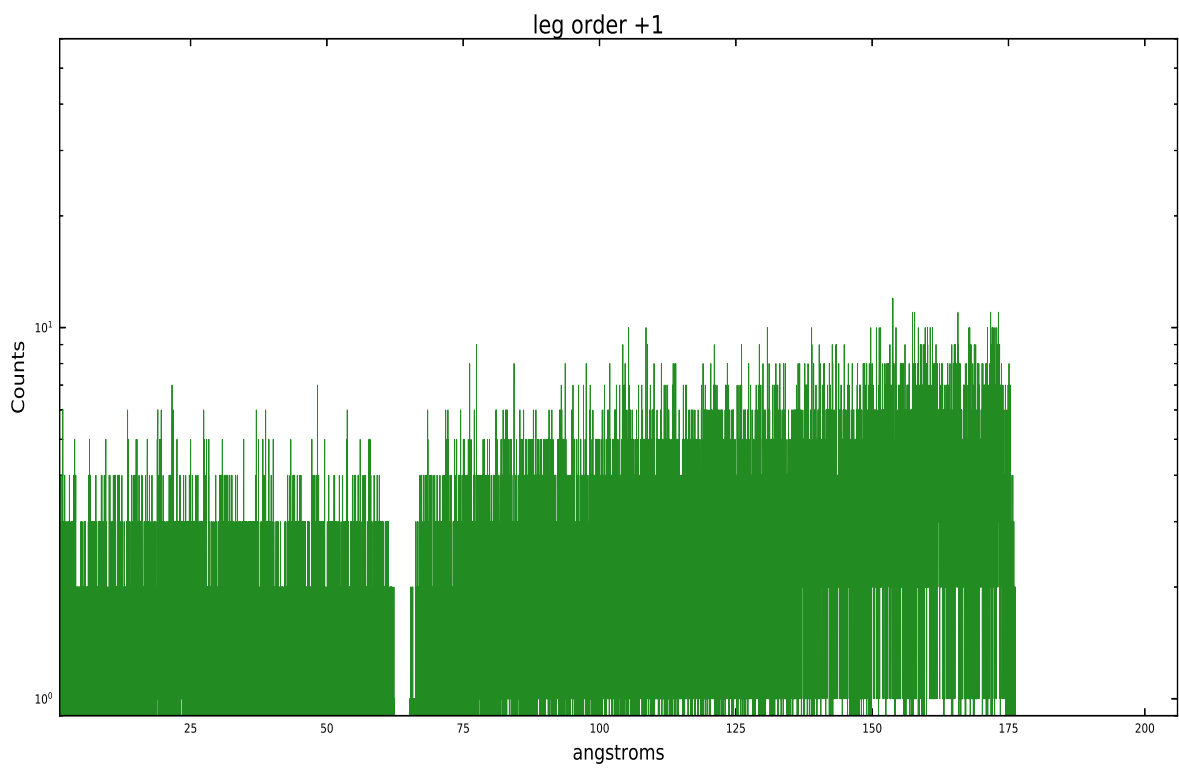
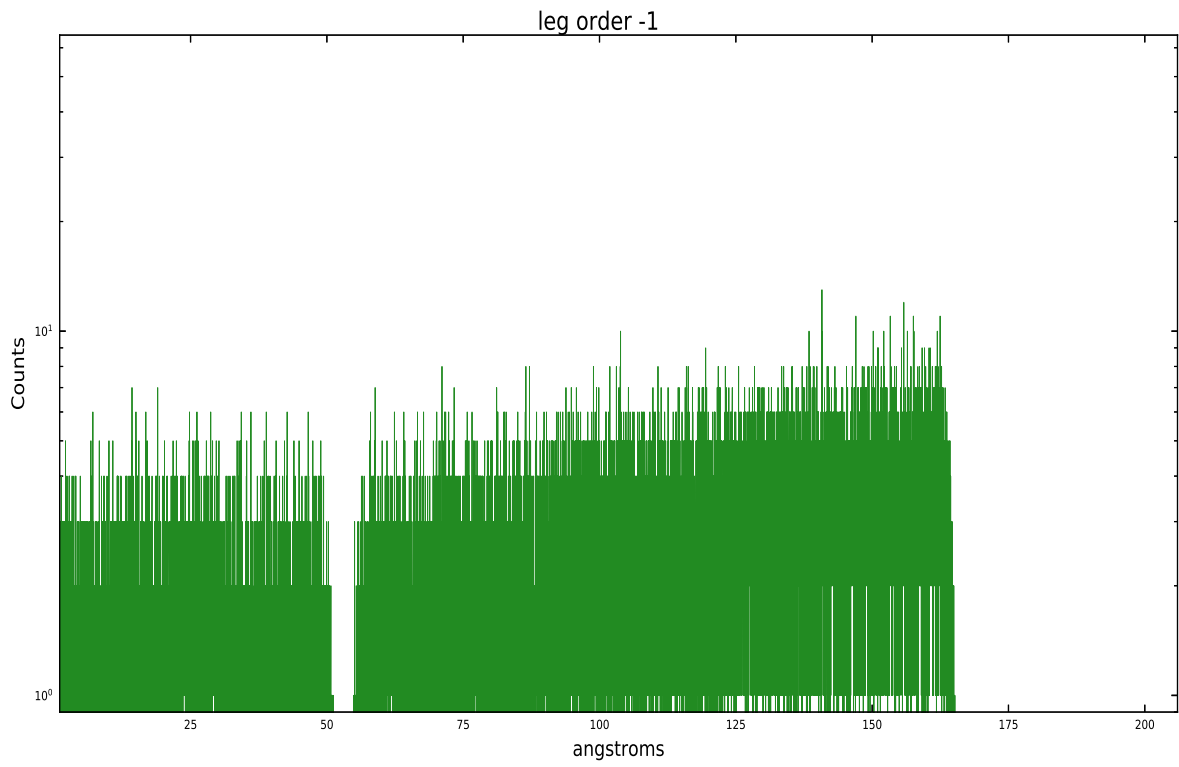


3 Gratings

3.1 LETG Arm



LETG Zero Order



A Summary

A.1 Status

V&V Scientist	Melania Nynka
V&V Date (YYYY-MM-DD)	2020.10.19
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	29.54075

A.2 Comments