

V&V Reference Report

L2 ASCDS Version : 10.6.4

Observation 21669 - L2 Version 1
Chandra X-Ray Center

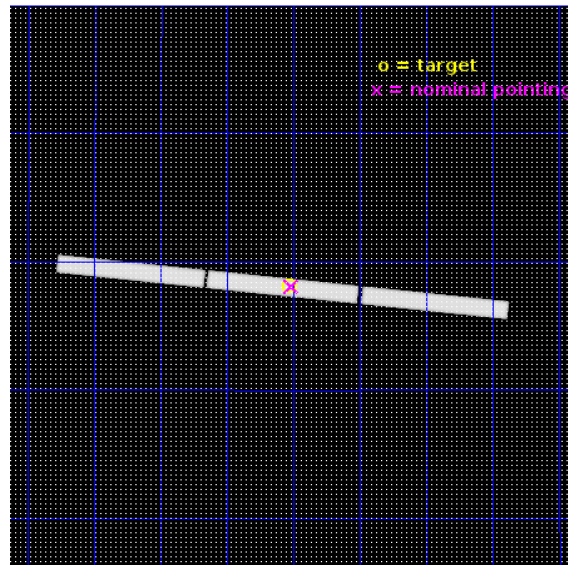
L2 Processing Date : Aug 19 2018

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
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
3	Gratings	17
3.1	LETG Arm	17
A	Summary	19
A.1	Status	19
A.2	Comments	19

1 Front

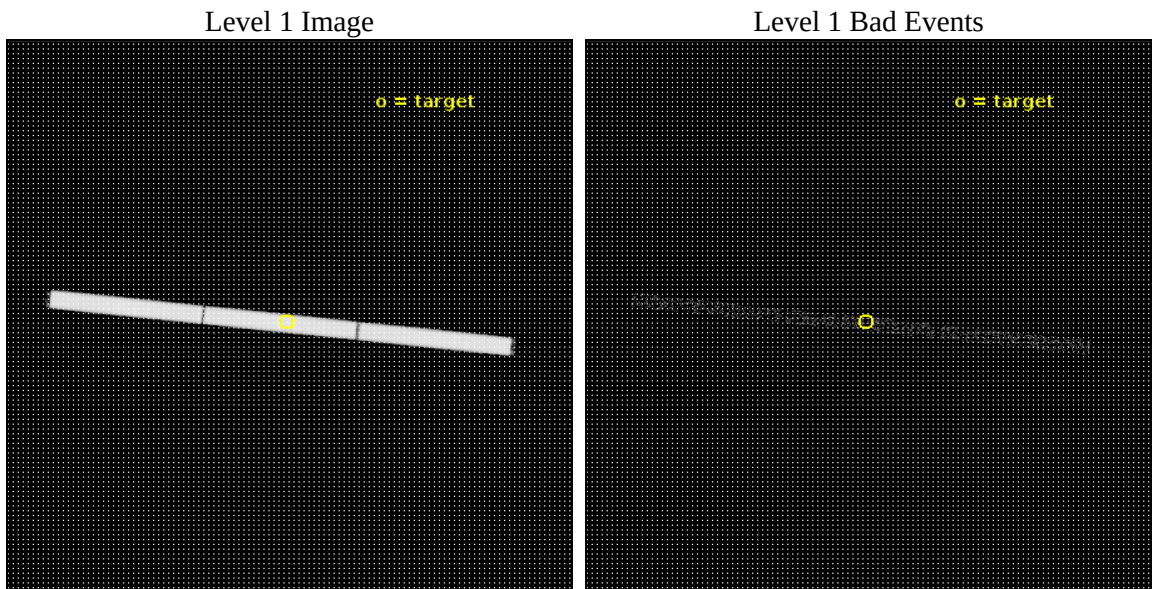
seq_num	503042	Sequence number
obs_id	21669	Observation id
title	The Cyclotron Absorption Line in the Isolated Neutron Star RX J2143.0+0654	Proposal title
observer	Dr. Peter Predehl	Principal investigator
object	RX J2143.0+0654	Source name
ra_targ	325.765833	Observer's specified target RA [deg]
dec_targ	6.905583	Observer's specified target Dec [deg]
ra_nom	325.75790125146	Nominal RA [deg]
dec_nom	6.89834321191	Nominal Dec [deg]
roll_nom	186.06826398722	Nominal Roll [deg]
revision	1	Processing version of data
ontime	15163.082150102	[s]
livetime	15013.923209583	Ontime multiplied by DTCOR
l2events	1336976	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	15000.000000	[s] Scheduled observation exposure time
ascdsver	10.6.4	Processing system revision	ontime	15163.082150102	[s]
caldbver	4.7.8	 	l1events	1767789	Number of level 1 events
date	2018-08-19T05:16:15	Date and time of file creation	tgmethod	TGDETECT	Method used to create src1a file
revision	1	Processing version of data	zo_pos	(32599.46, 32949.52)	src1a sky pixel position

2.1.3 Events

Level 1 Events

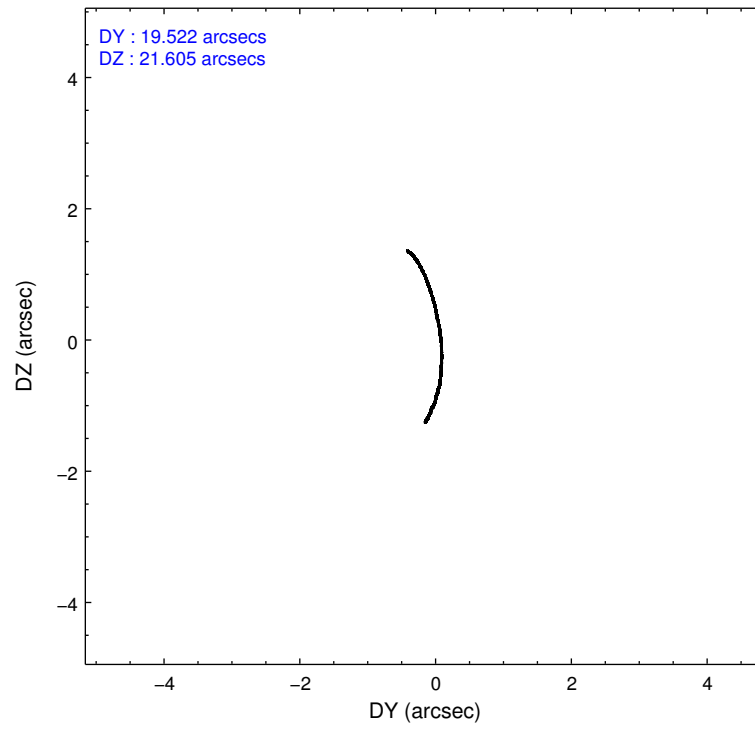
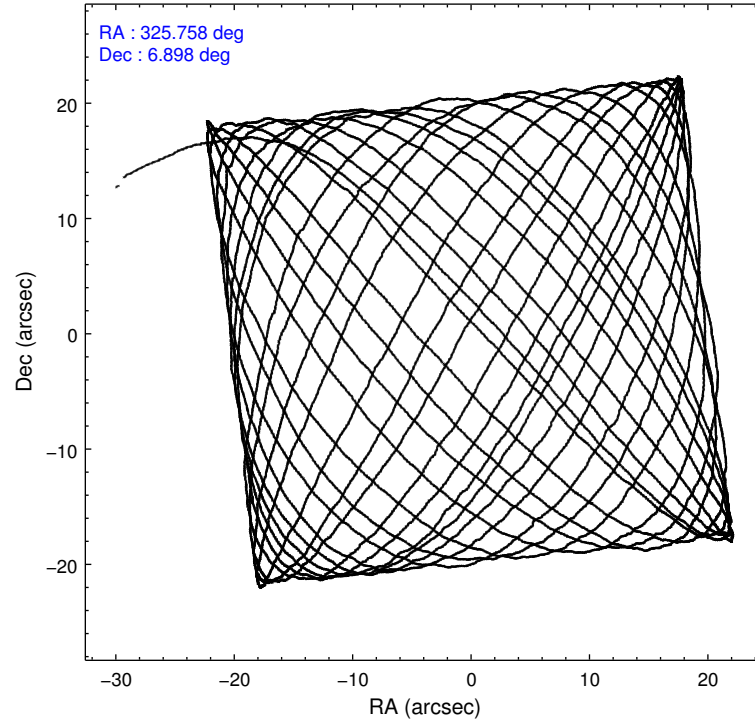
	segment 1	segment 2	segment 3
level 1 events	590038	590746	587005
rejected events	40076	40216	39737
rejected %	6%	6%	6%

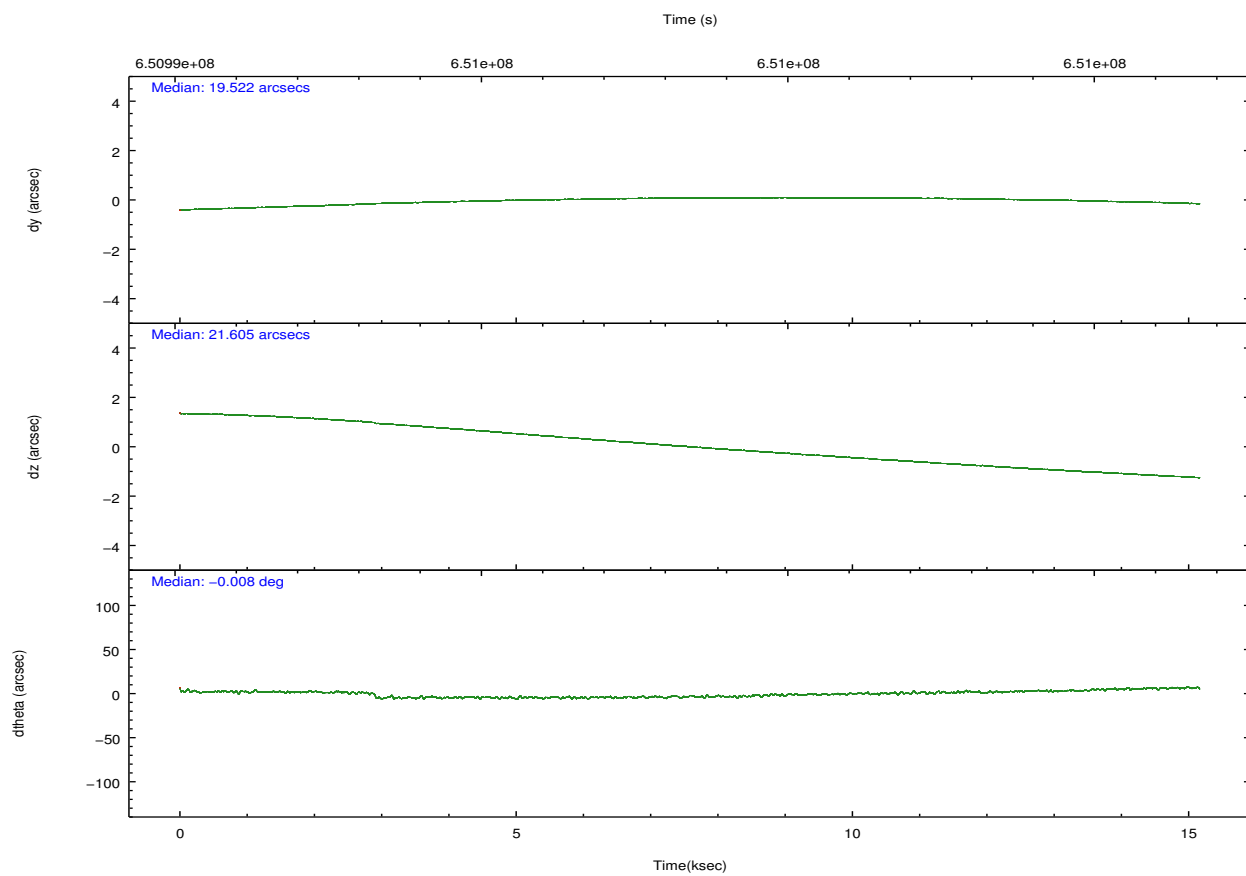
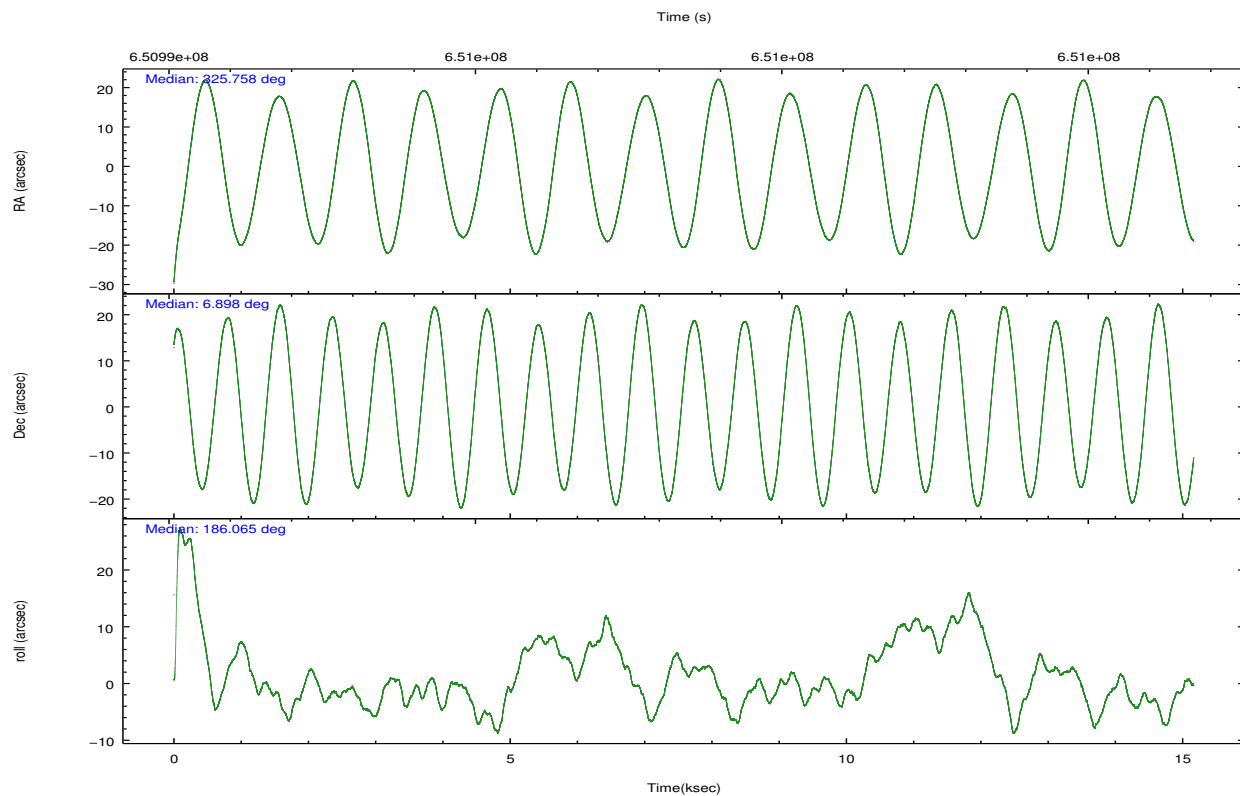
2.2 Compared Parameters

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	325.780530	325.7579012514555
[deg] Pointing Dec	6.916485	6.898343211909958
[deg] Pointing Roll	185.998229	186.0682639872155
[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)	650990988.184000	650989759.7737401
Observation start date	2018-08-18T14:48:39	2018-08-18T14:29:19
[s] Observation end time (MET)	651005988.184000	651006873.17475
Observation end date	2018-08-18T18:58:39	2018-08-18T19:14:33

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED

2.3 Aspect



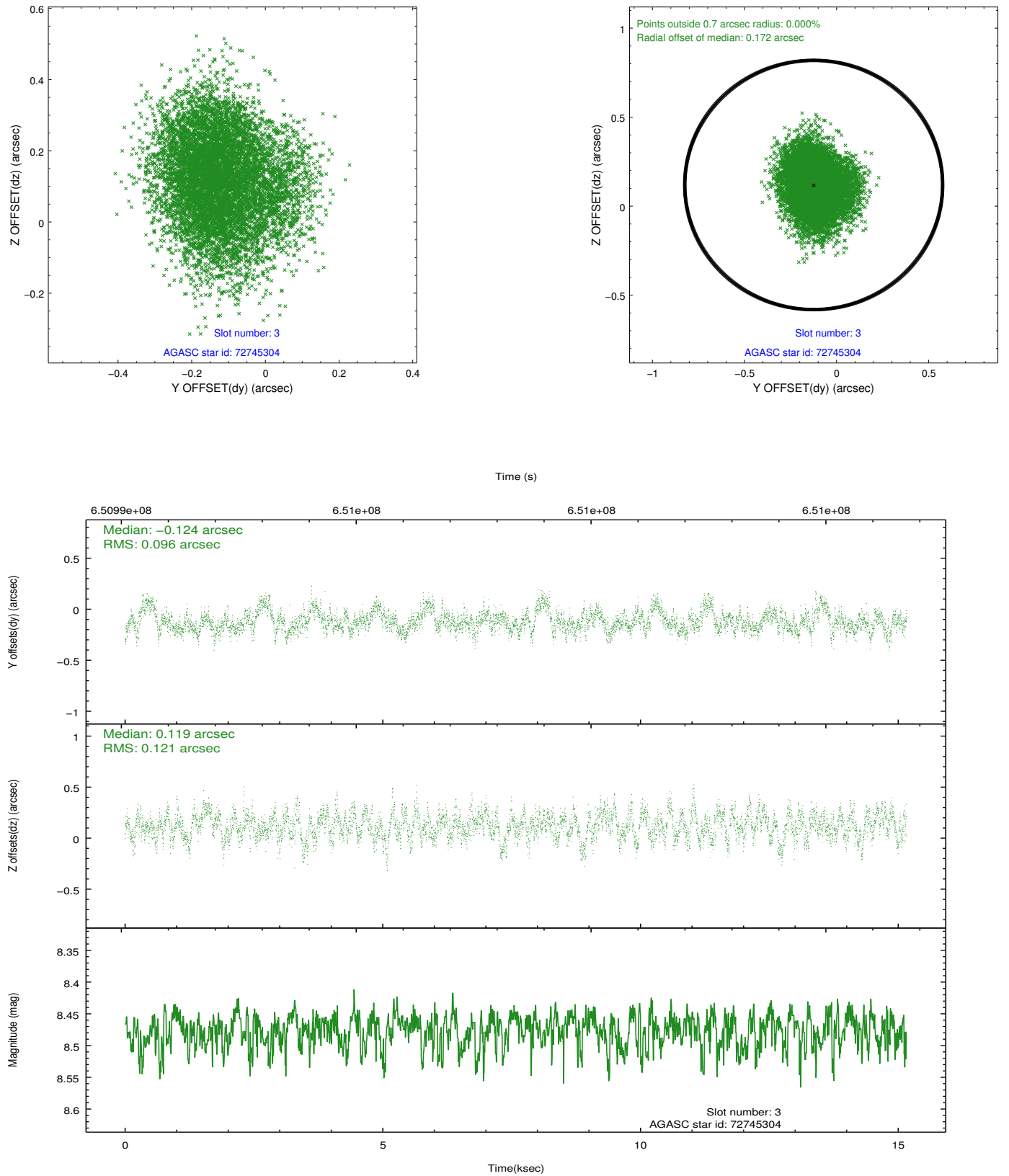


Slot Statistics

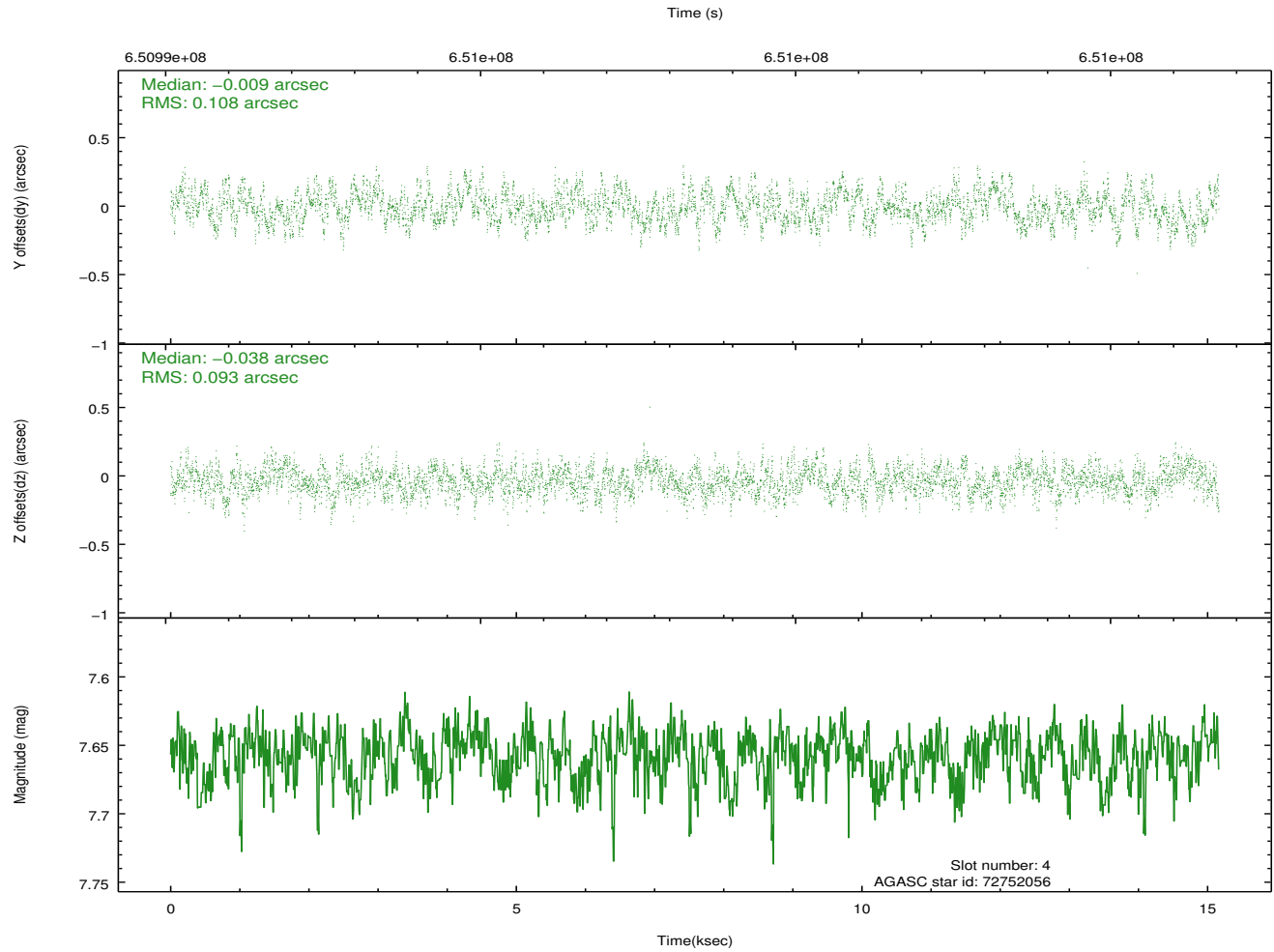
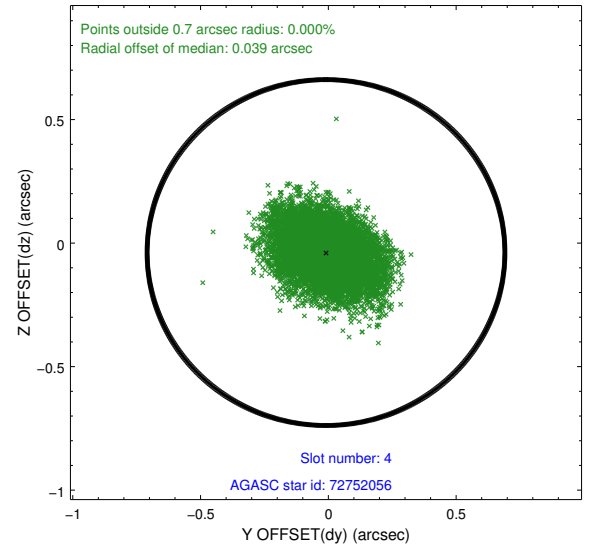
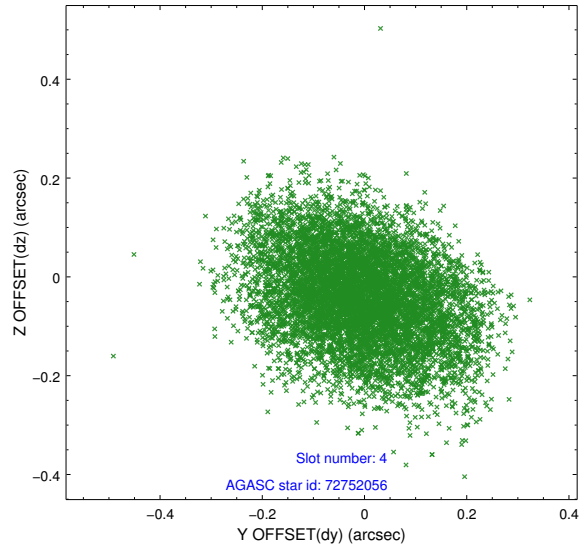
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		HRC-S-2	7.03	3699	1.000	0.165	-0.244	0.030	0.103	0.000000	0.000000	1225.83	-463
1	FID		HRC-S-3	7.05	3698	1.000	-0.081	-0.086	0.010	0.018	0.000000	0.000000	-1176.58	558
2	FID		HRC-S-4	7.01	3699	1.000	0.320	0.033	0.024	0.098	0.000000	0.000000	1224.16	561
3	GUIDE	used	72745304	8.48	7390	1.000	-0.124	0.119	0.167	0.263	326.201878	7.208807	-1606.18	-889
4	GUIDE	used	72752056	7.66	7395	1.000	-0.009	-0.038	0.154	0.244	326.033014	7.158258	-987.34	-772
5	GUIDE	used	72750696	9.28	7391	1.000	0.012	-0.084	0.209	0.341	325.476837	7.372250	906.27	-1745
6	GUIDE	used	72746904	8.60	7393	1.000	0.115	-0.064	0.141	0.230	326.009073	7.152951	-899.83	-762
7	GUIDE	used	72746632	9.58	7364	1.000	-0.016	0.056	0.292	0.477	325.091173	7.287892	2309.10	-1588

2.4 Star Slots

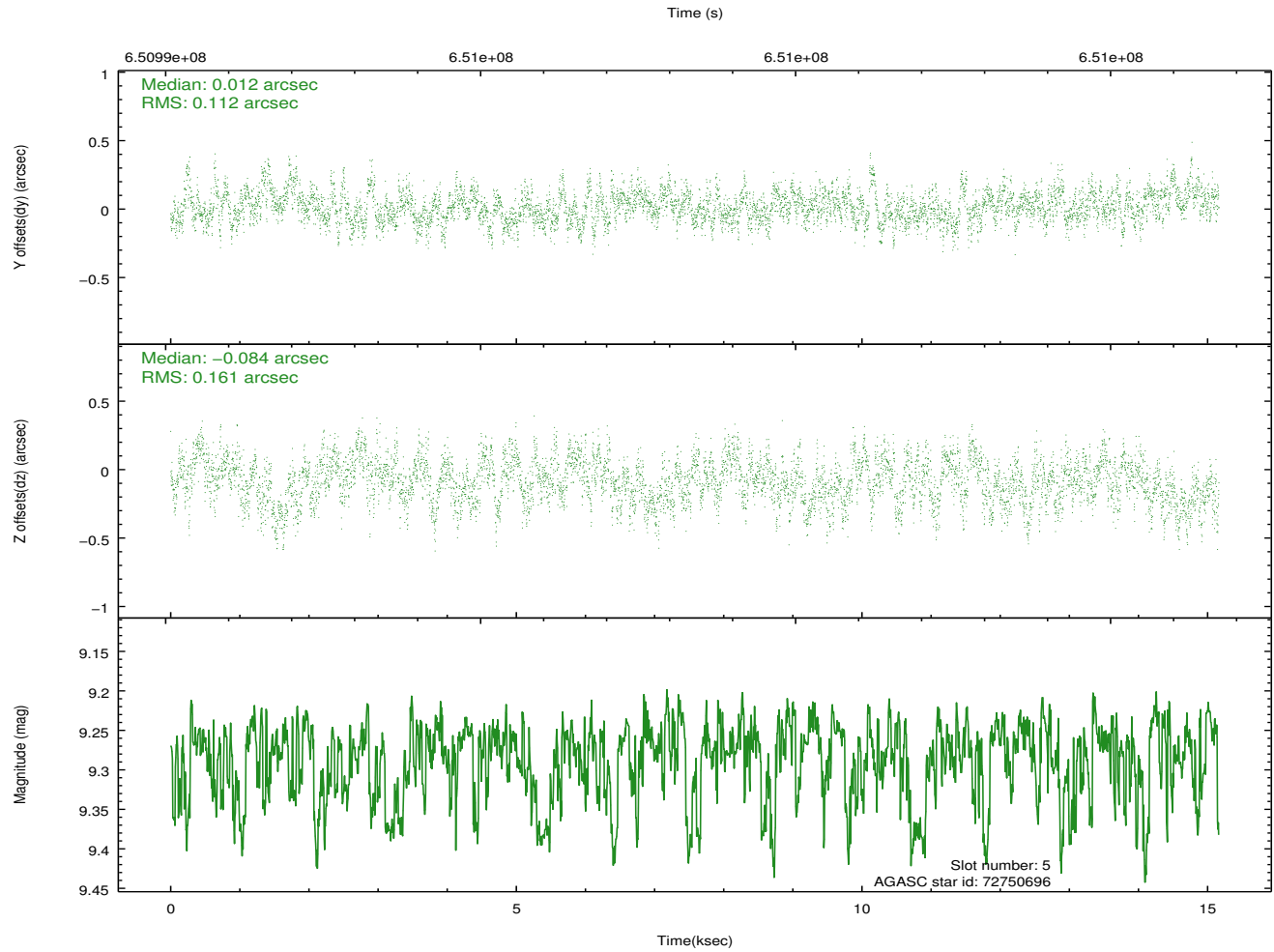
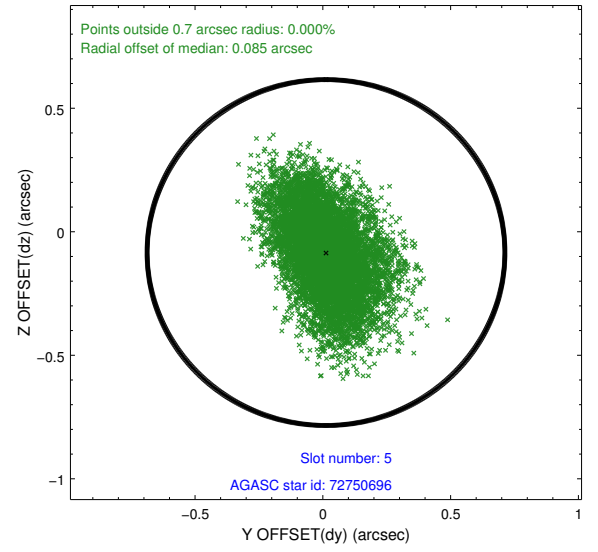
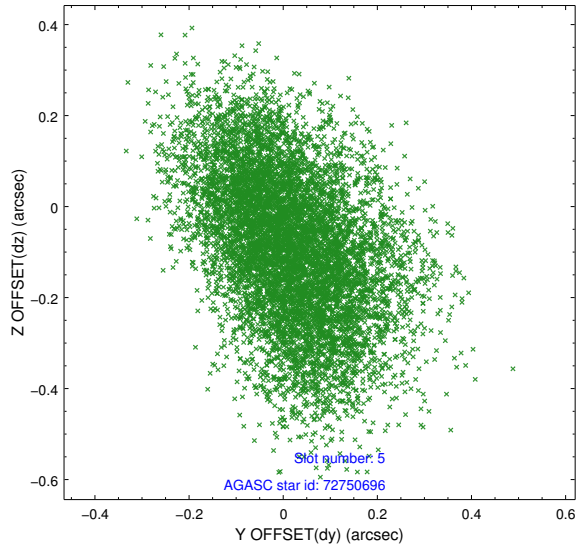
2.4.1 Slot 3



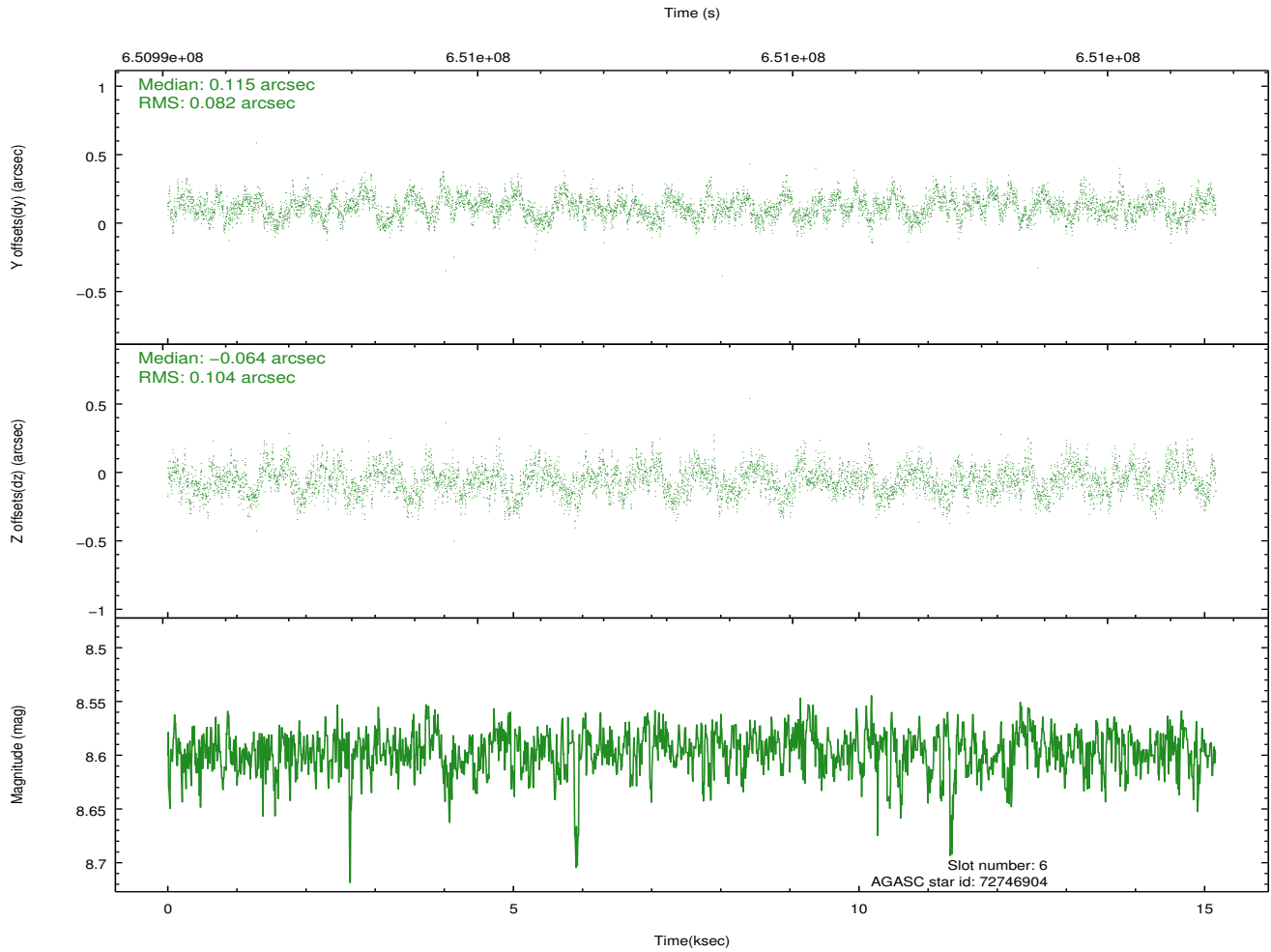
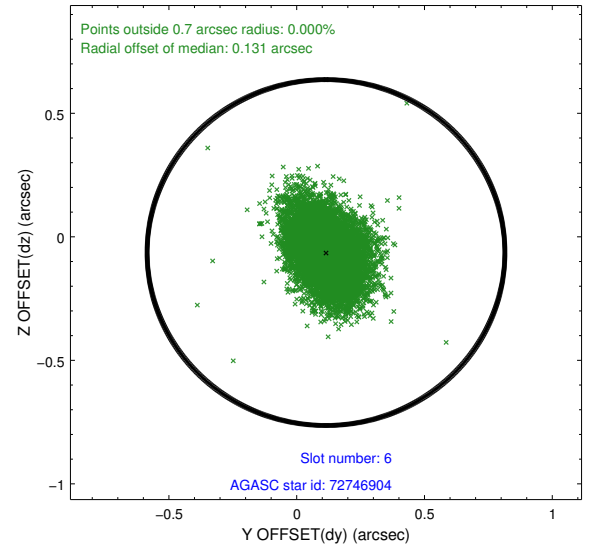
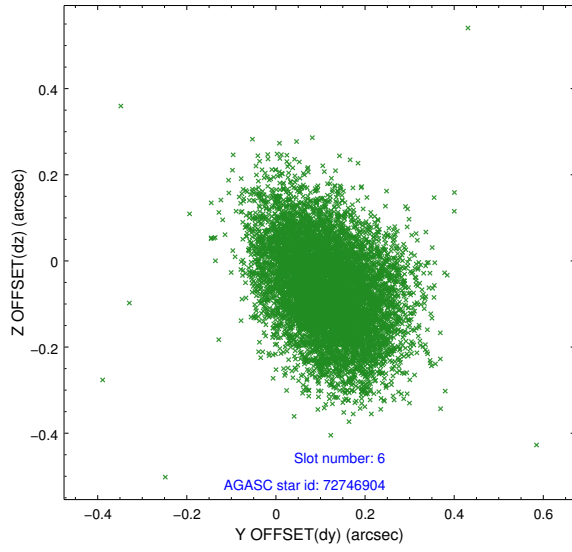
2.4.2 Slot 4



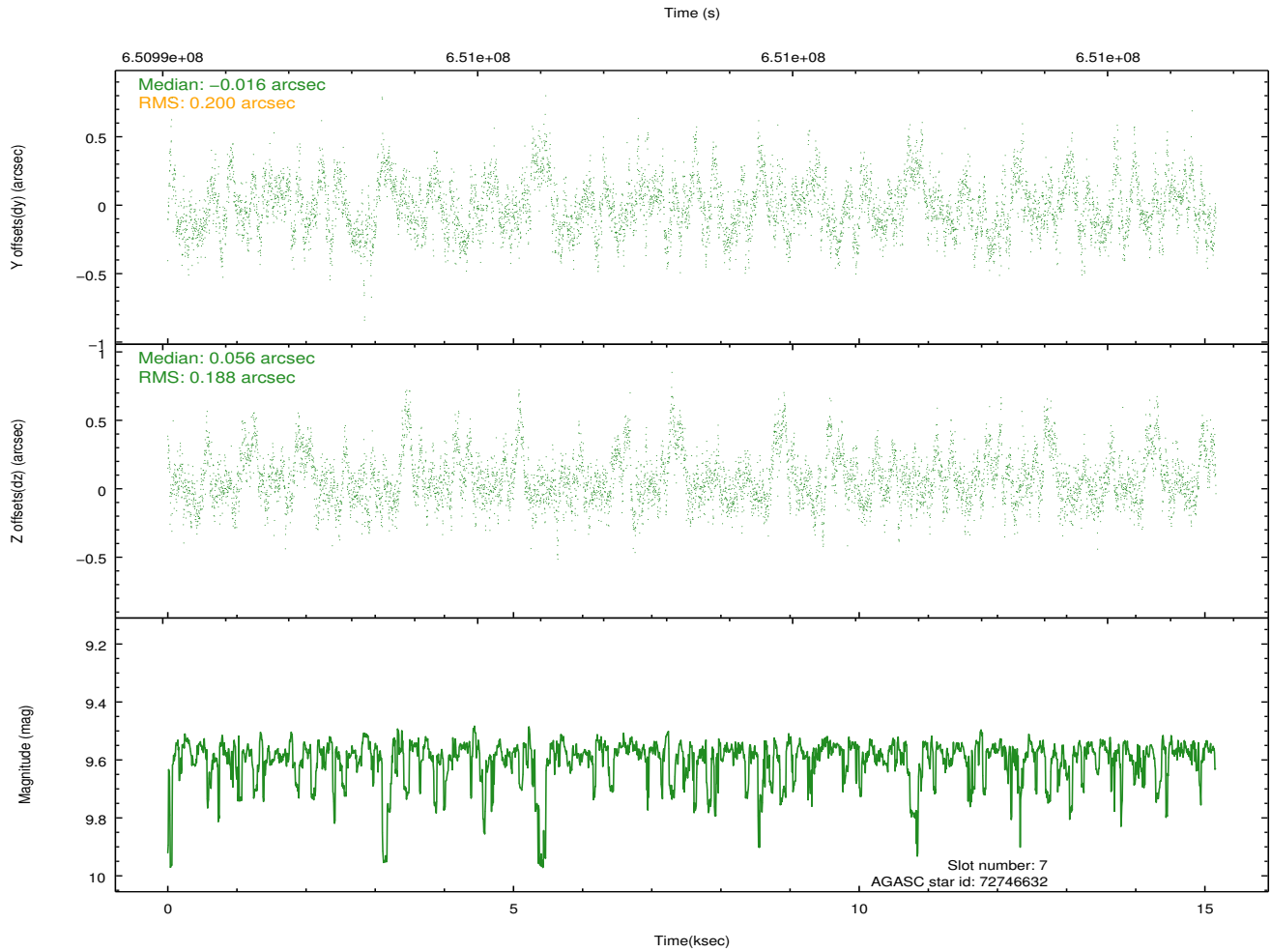
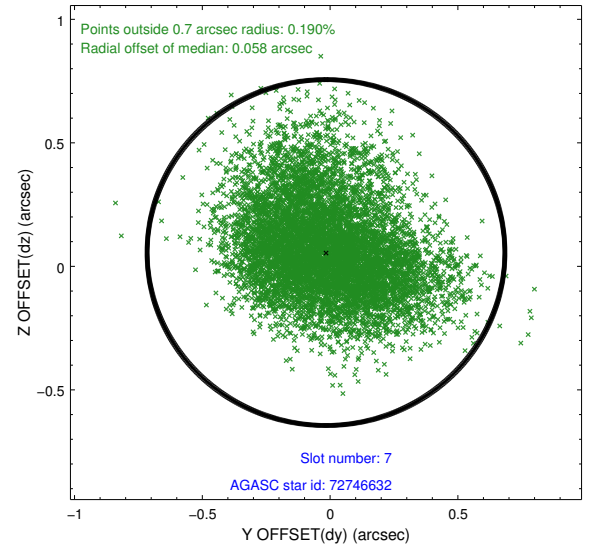
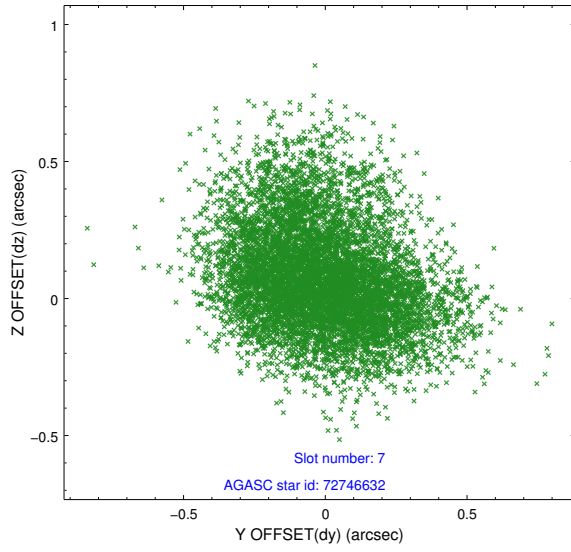
2.4.3 Slot 5



2.4.4 Slot 6

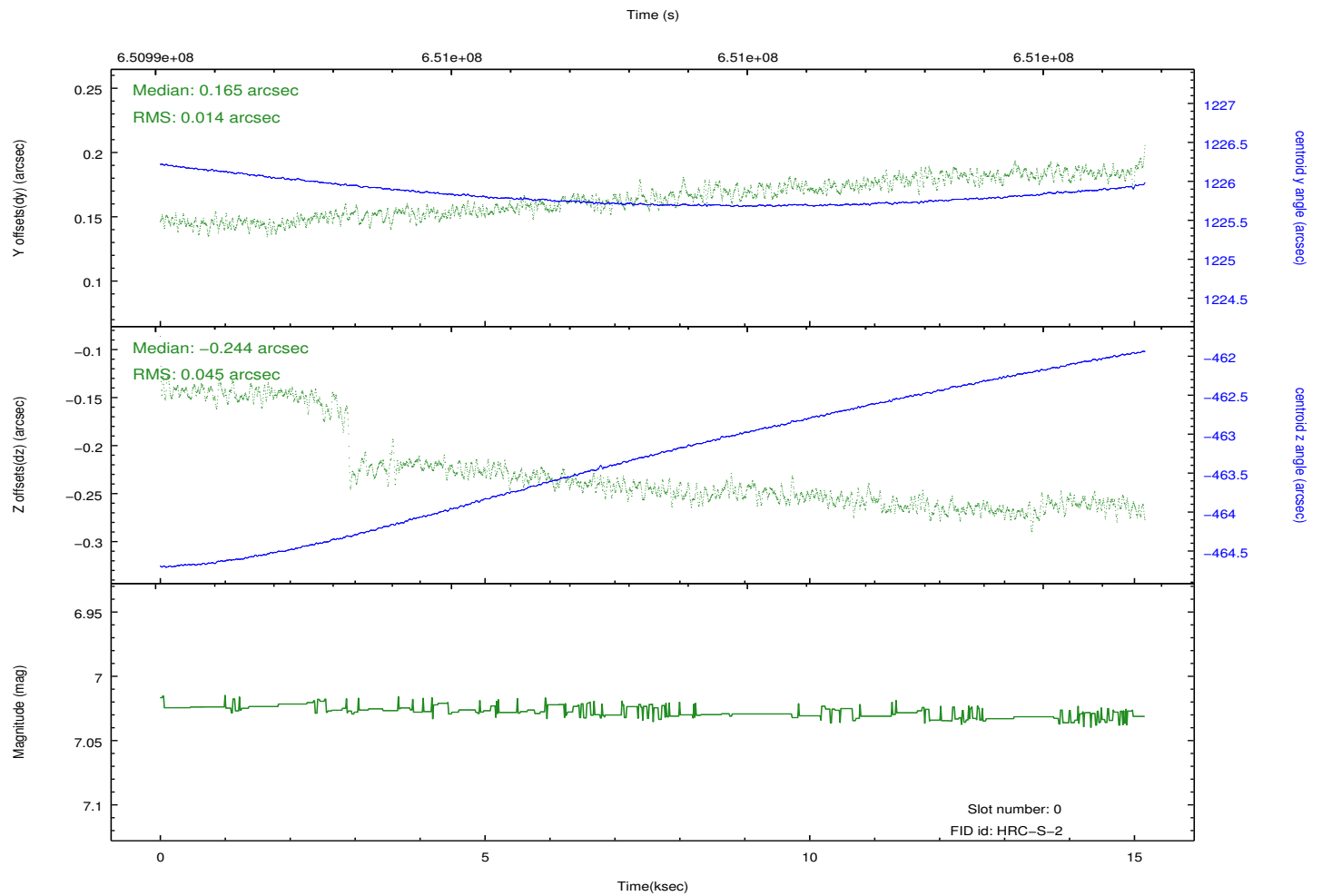
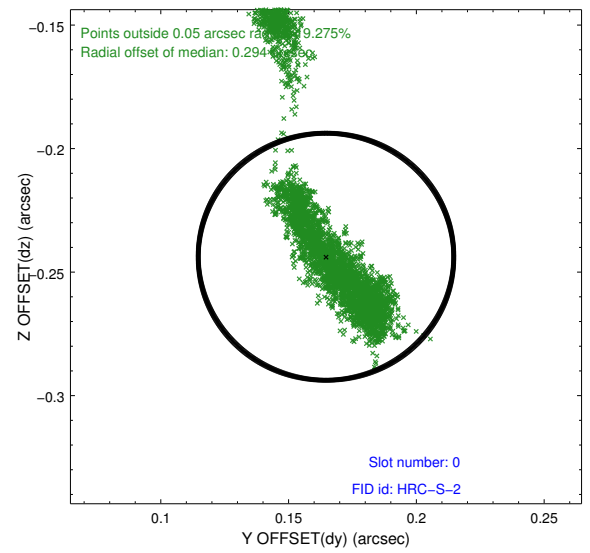
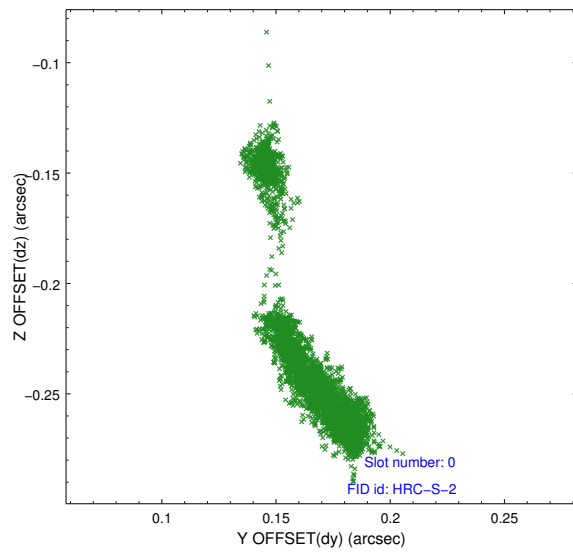


2.4.5 Slot 7

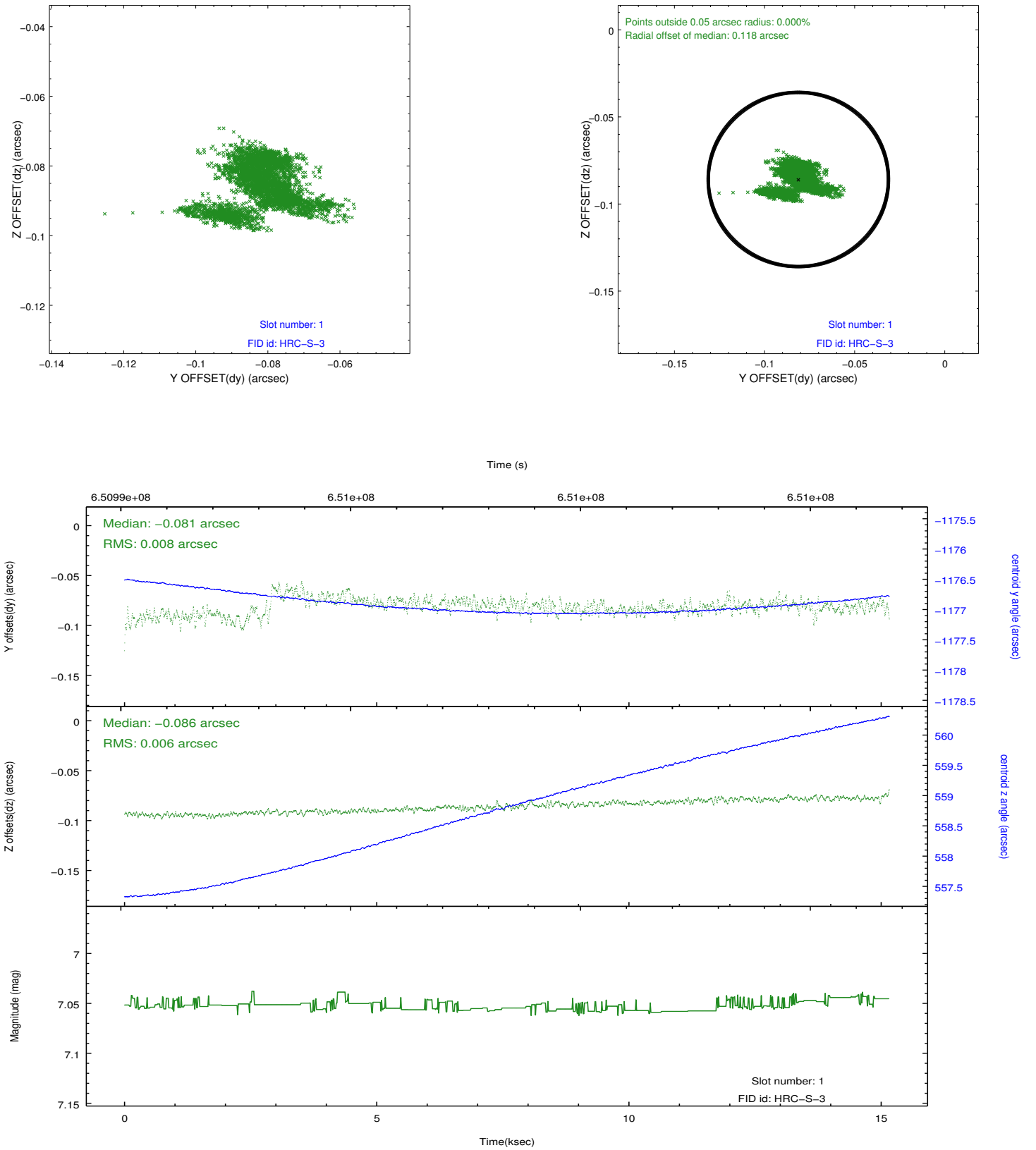


2.5 FID Slots

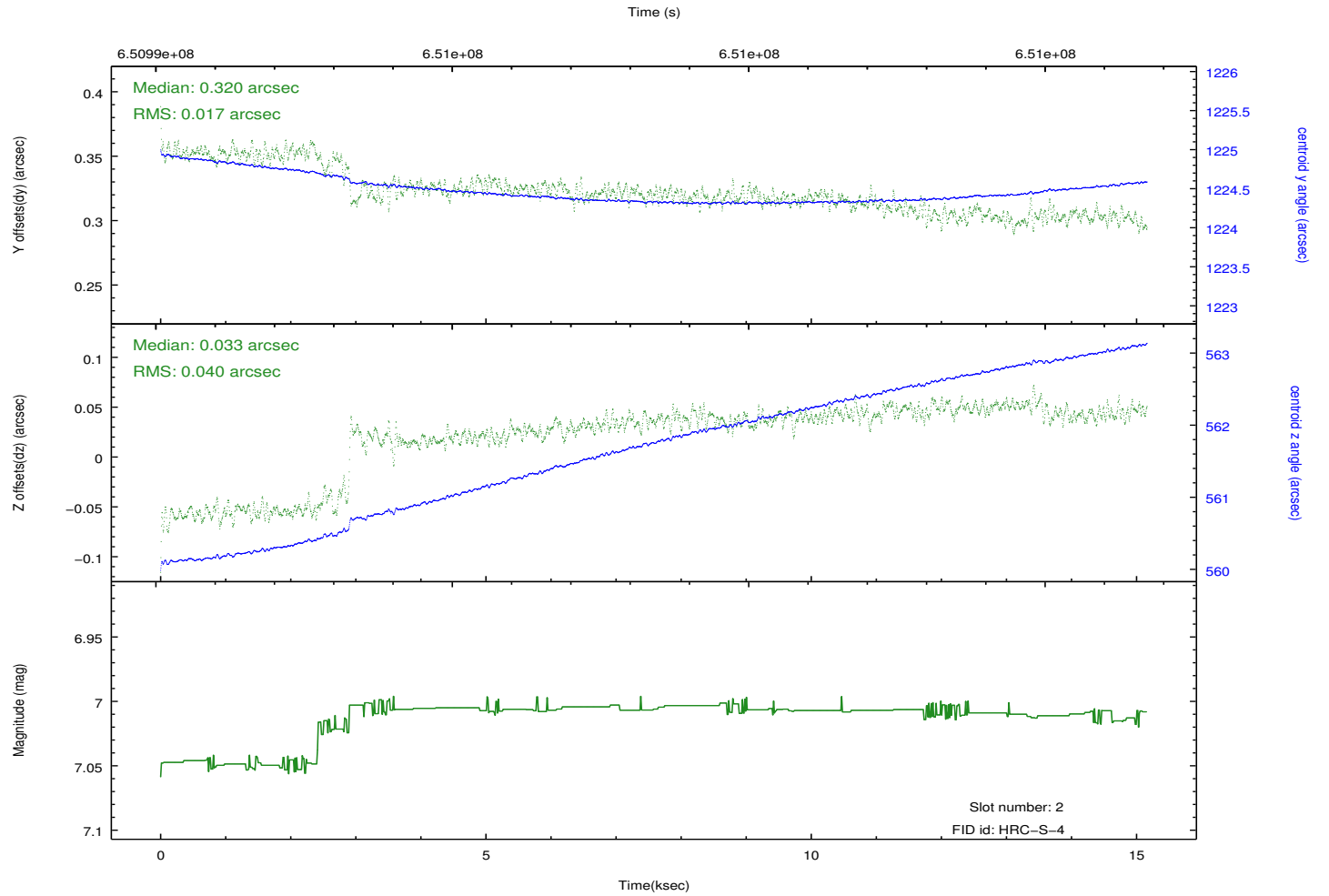
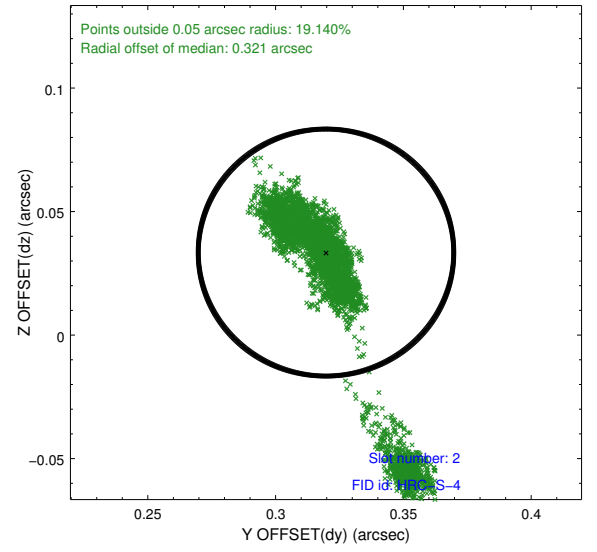
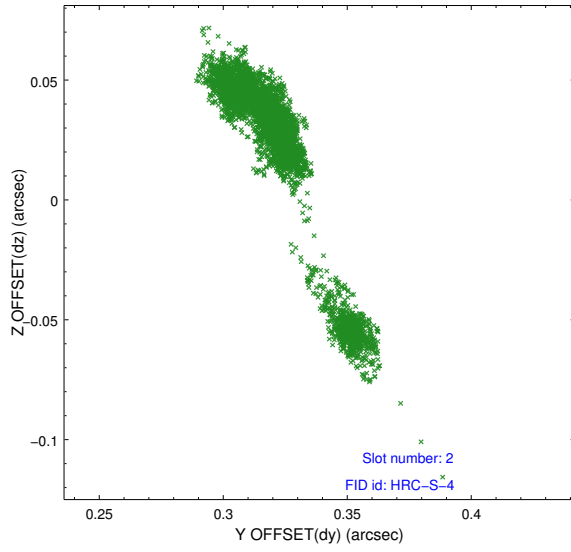
2.5.1 Slot 0



2.5.2 Slot 1

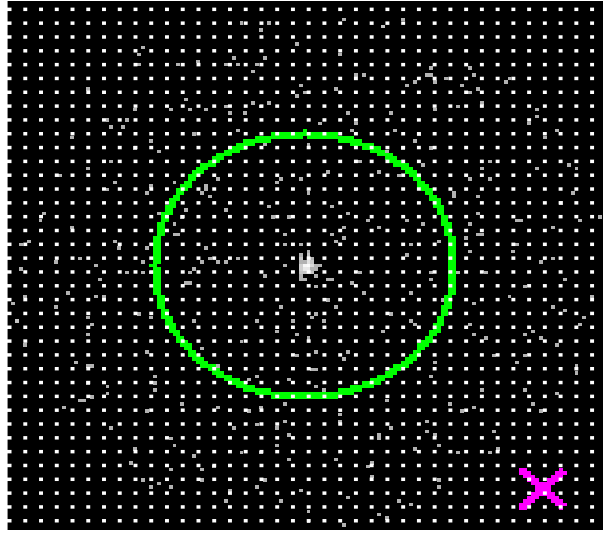


2.5.3 Slot 2

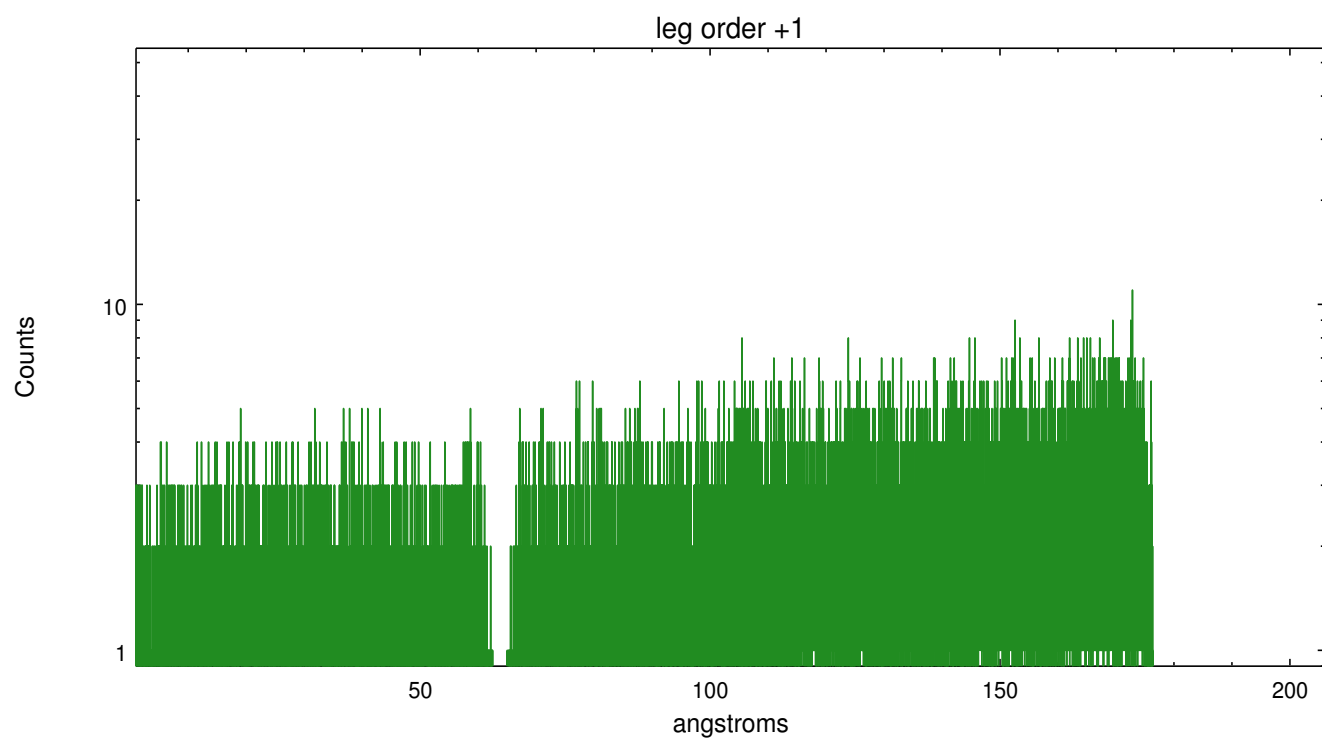
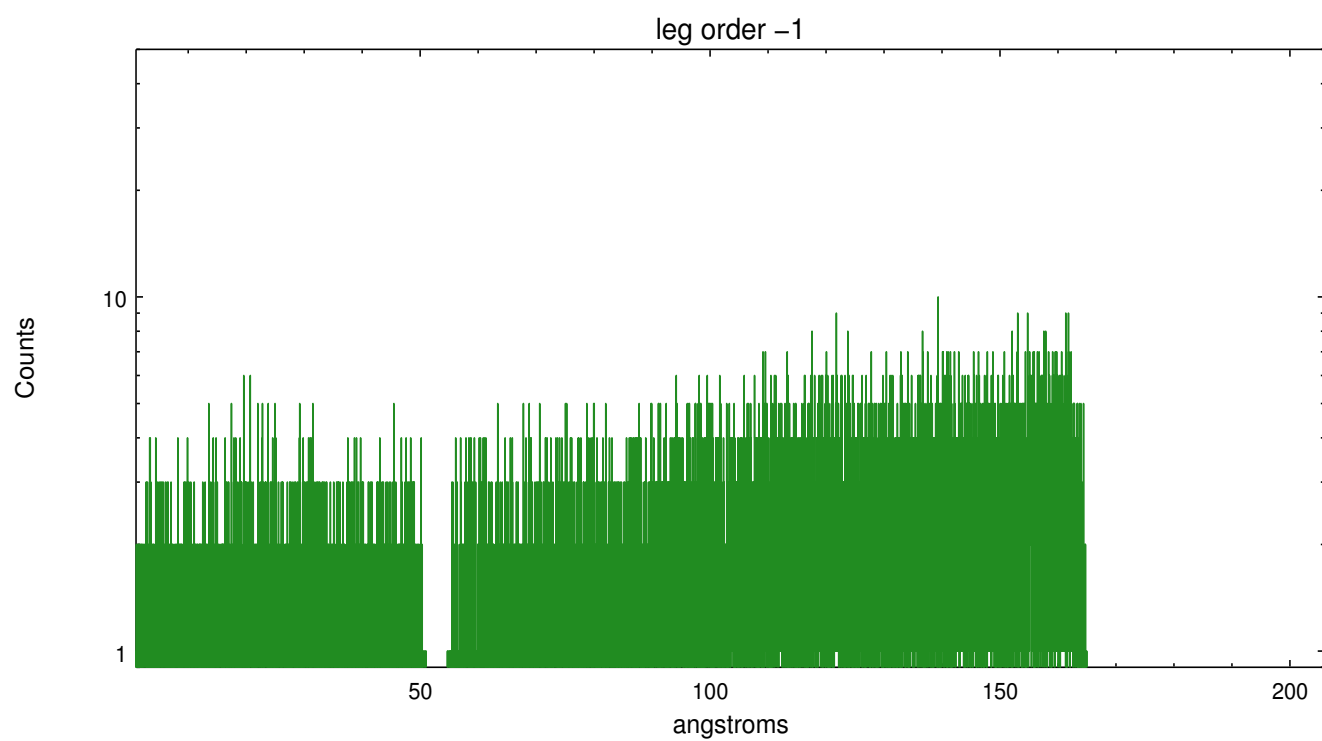


3 Gratings

3.1 LETG Arm



LETG Zero Order



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2018.08.20
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	15.163082150102

A.2 Comments