

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 19467 - L2 Version 1
Chandra X-Ray Center

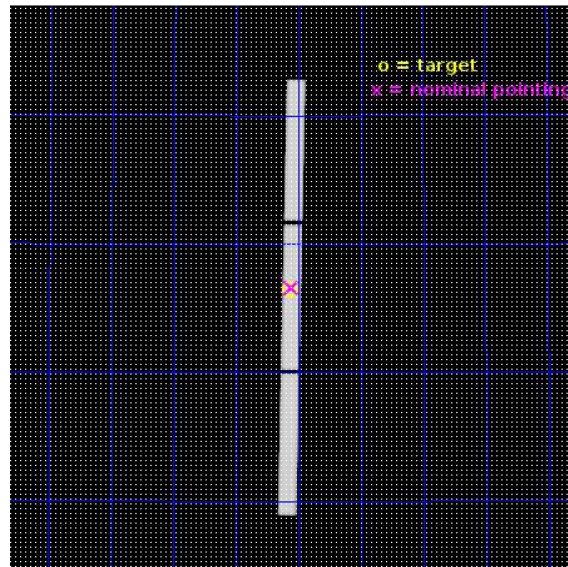
L2 Processing Date : Feb 2 2018

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1 Front

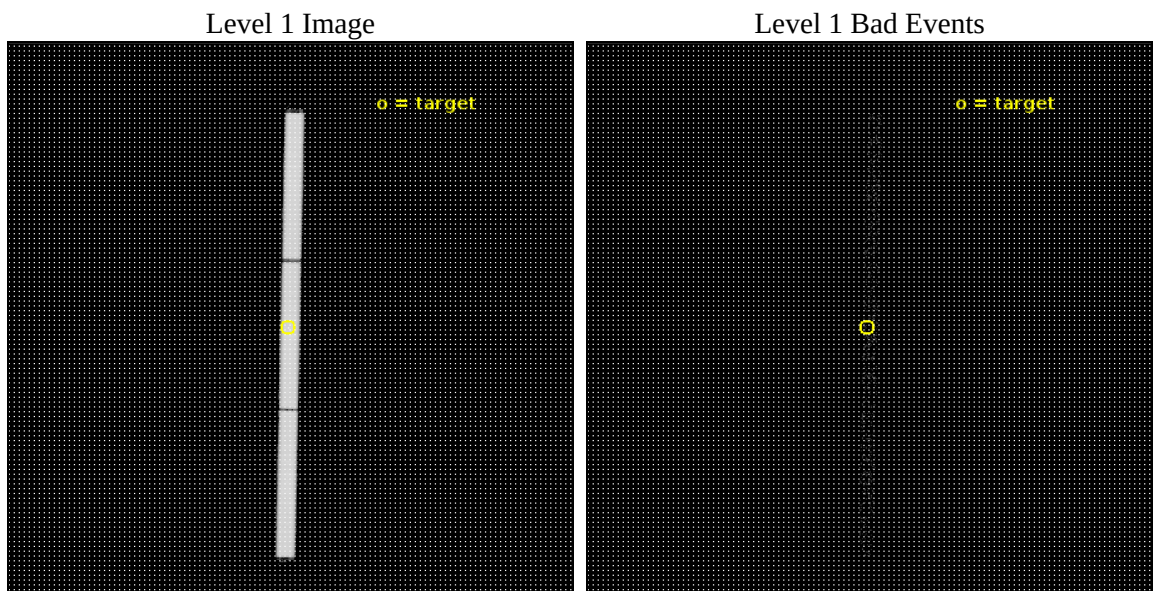
seq_num	703315	Sequence number
obs_id	19467	Observation id
title	Chandra observations of a unique X-ray WHIM absorber towards PG 1116+215	Proposal title
observer	Massimiliano Bonamente	Principal investigator
object	PG 1116+215	Source name
ra_targ	169.78625	Observer's specified target RA [deg]
dec_targ	21.321667	Observer's specified target Dec [deg]
ra_nom	169.77918432733	Nominal RA [deg]
dec_nom	21.330306035276	Nominal Dec [deg]
roll_nom	91.069897176268	Nominal Roll [deg]
revision	1	Processing version of data
ontime	23178.198244452	[s]
livetime	22959.78819314	Ontime multiplied by DTCOR
l2events	1960429	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	23000.000000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	23178.326365352	[s]
caldbver	4.7.7	 	l1events	2510616	Number of level 1 events
date	2018-02-02T21:22:32	Date and time of file creation	tgmethod	TGDETECT	Method used to create src1a file
revision	1	Processing version of data	zo_pos	(32584.68, 32526.85)	src1a sky pixel position

2.1.3 Events

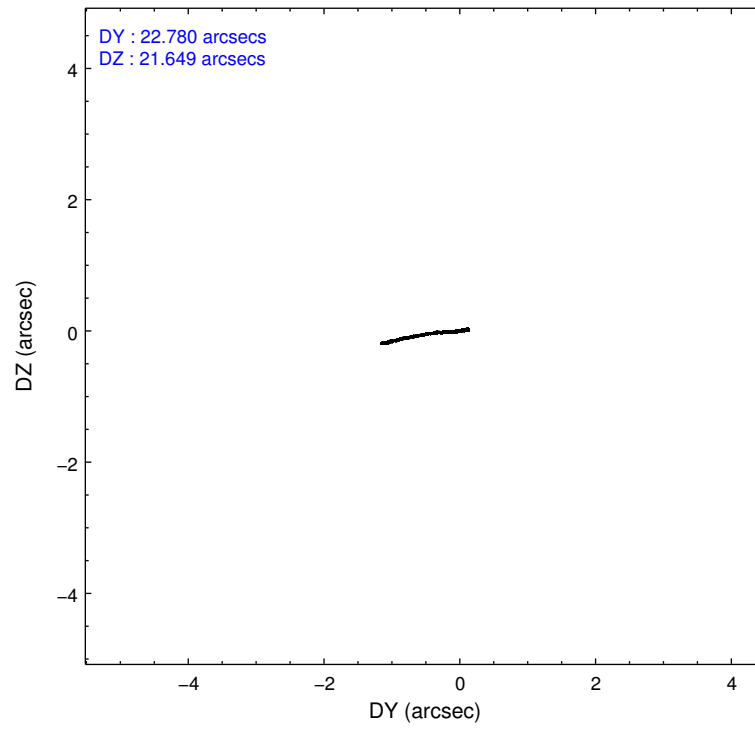
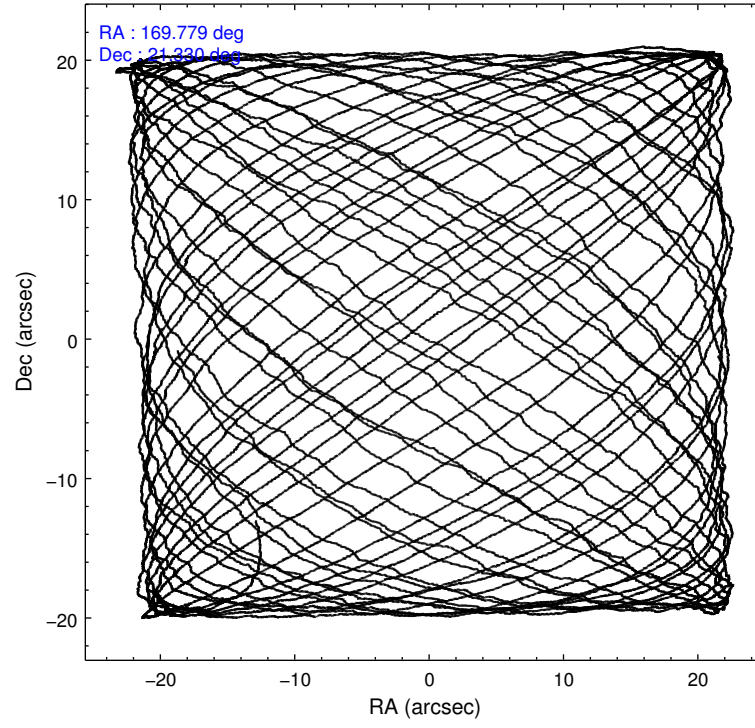
Level 1 Events

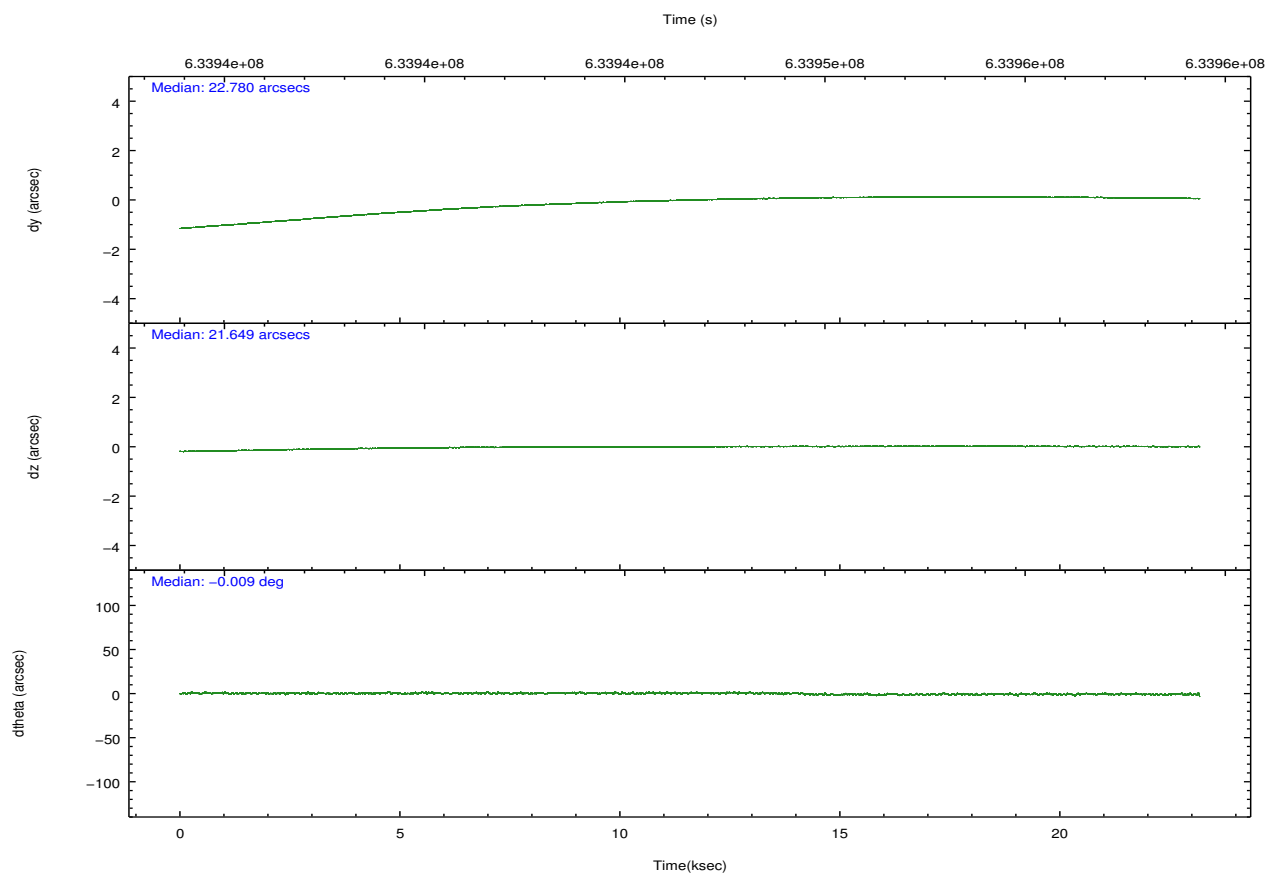
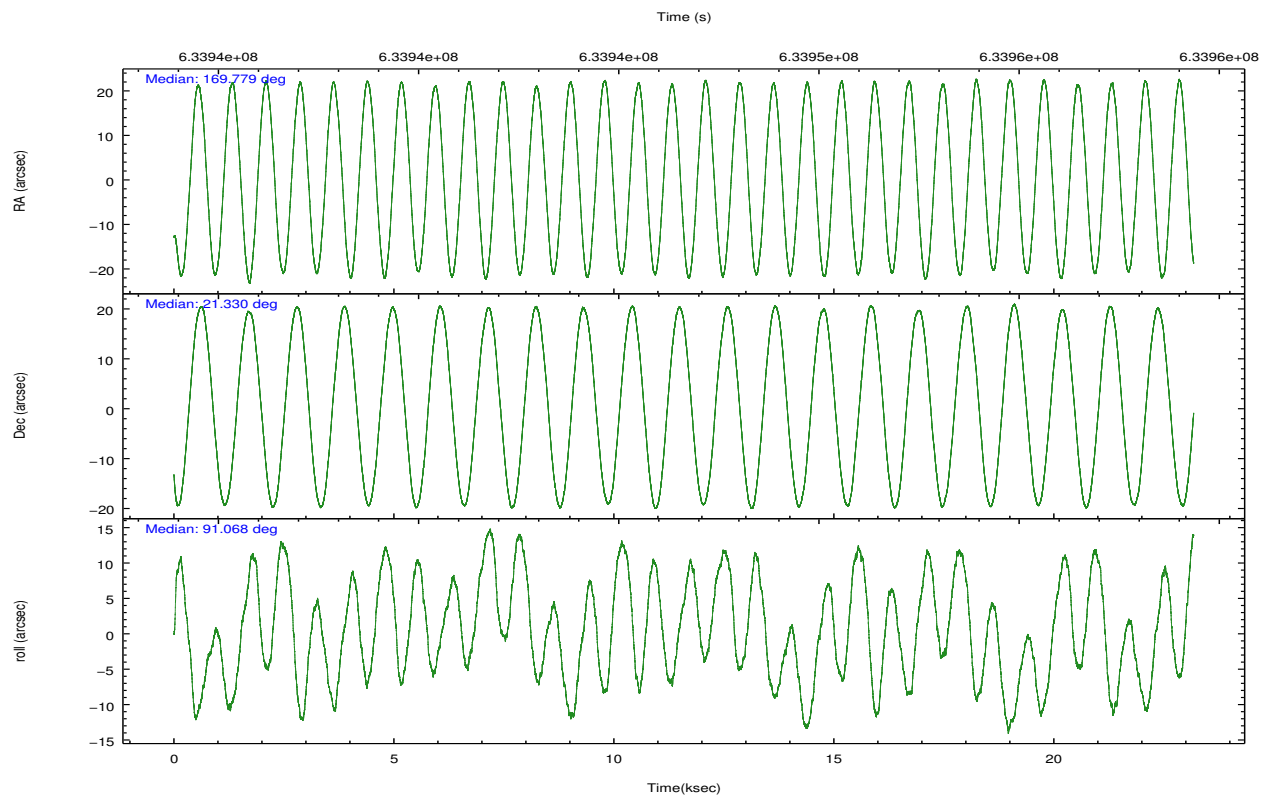
	segment 1	segment 2	segment 3
level 1 events	836096	840357	834163
rejected events	28193	27722	27941
rejected %	3%	3%	3%

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	169.796464	169.7791843273303			
[deg] Pointing Dec	21.306380	21.33030603527622			
[deg] Pointing Roll	90.996281	91.06989717626752			
[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)	633935205.184000	633934255.89078			
Observation start date	2018-02-02T05:05:36	2018-02-02T04:50:55			
[s] Observation end time (MET)	633958205.184000	633959199.26724			
Observation end date	2018-02-02T11:28:56	2018-02-02T11:46:39			

2.3 Aspect



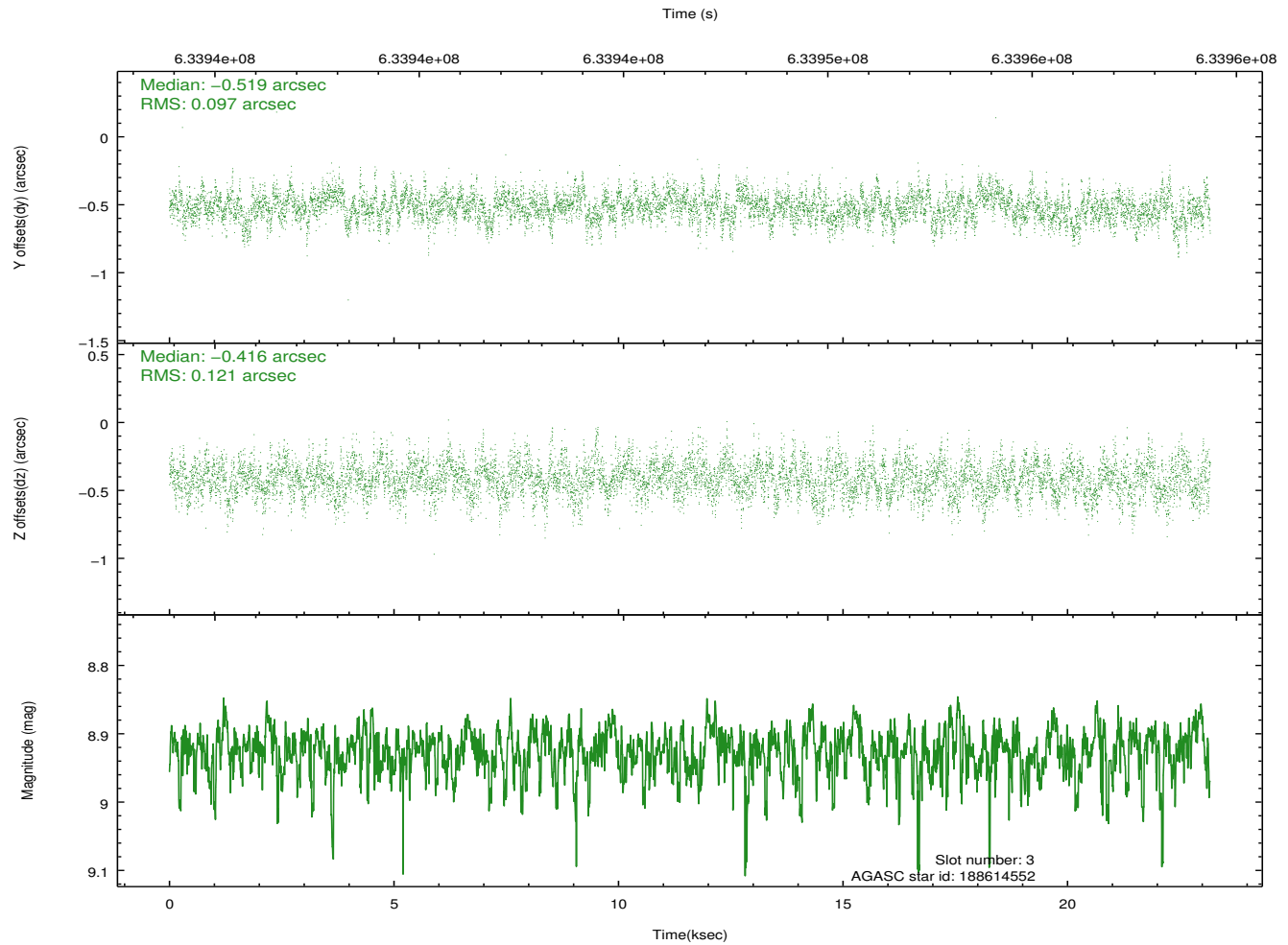
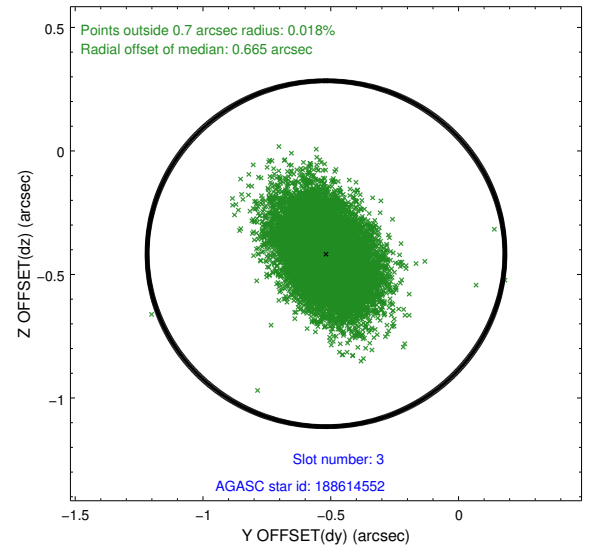
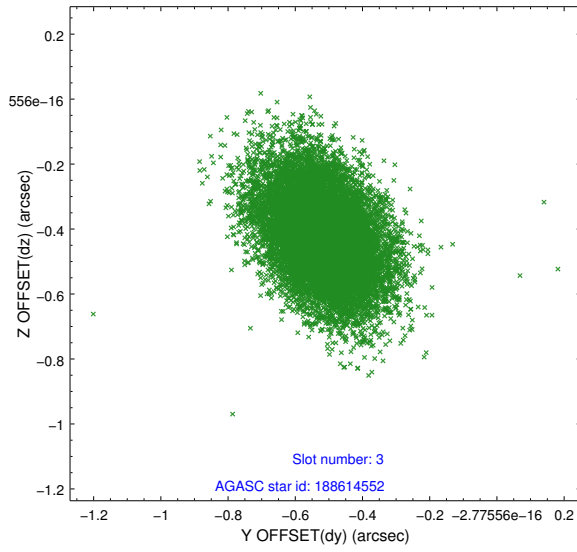


Slot Statistics

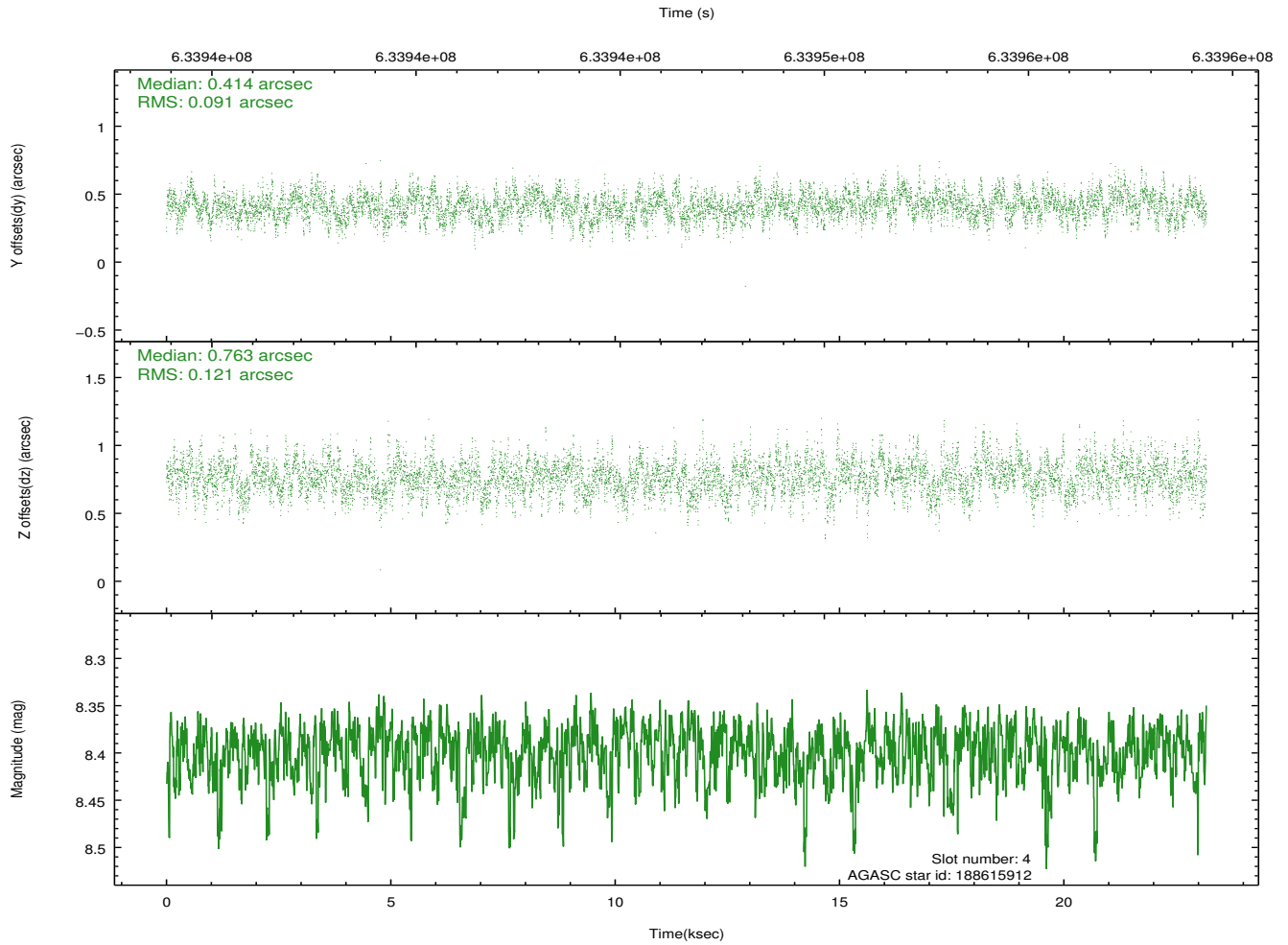
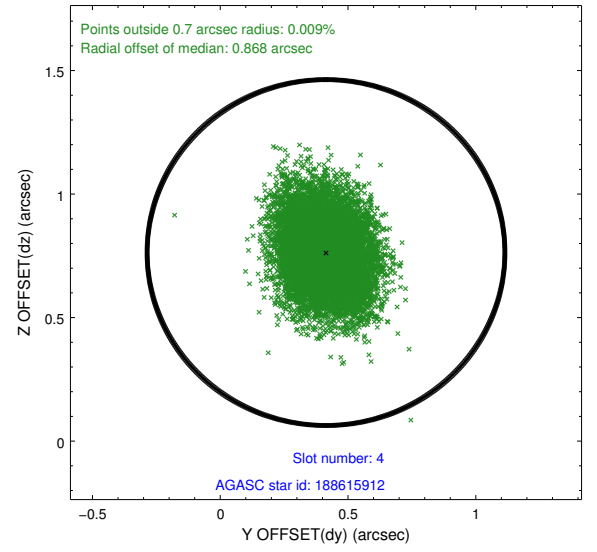
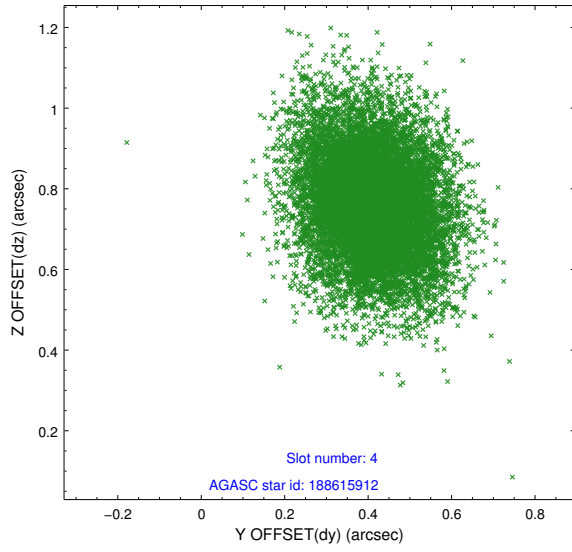
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		HRC-S-1	7.08	5653	-0.083	-0.162	0.008	0.014	0.000000	0.000000	-1177.29	-470.81
1	FID		HRC-S-2	7.04	5654	0.425	-0.136	0.011	0.020	0.000000	0.000000	1222.69	-463.28
2	FID		HRC-S-3	7.05	5653	0.045	-0.005	0.012	0.018	0.000000	0.000000	-1179.77	558.79
3	GUIDE	used	188614552	8.92	11294	-0.519	-0.416	0.162	0.272	169.490657	21.468678	603.30	1014.52
4	GUIDE	used	188615912	8.40	11294	0.414	0.763	0.159	0.266	170.246329	20.858006	-1636.99	-1484.08
5	GUIDE	used	188616136	8.95	11289	-0.135	-0.462	0.157	0.274	169.590378	21.286471	-59.68	691.48
6	GUIDE	used	188623472	7.06	11307	0.097	0.076	0.125	0.218	169.895324	20.725289	-2096.40	-295.73
7	GUIDE	used	188614832	9.10	11291	0.136	0.040	0.197	0.356	170.375801	21.987686	2422.43	-1975.72

2.4 Star Slots

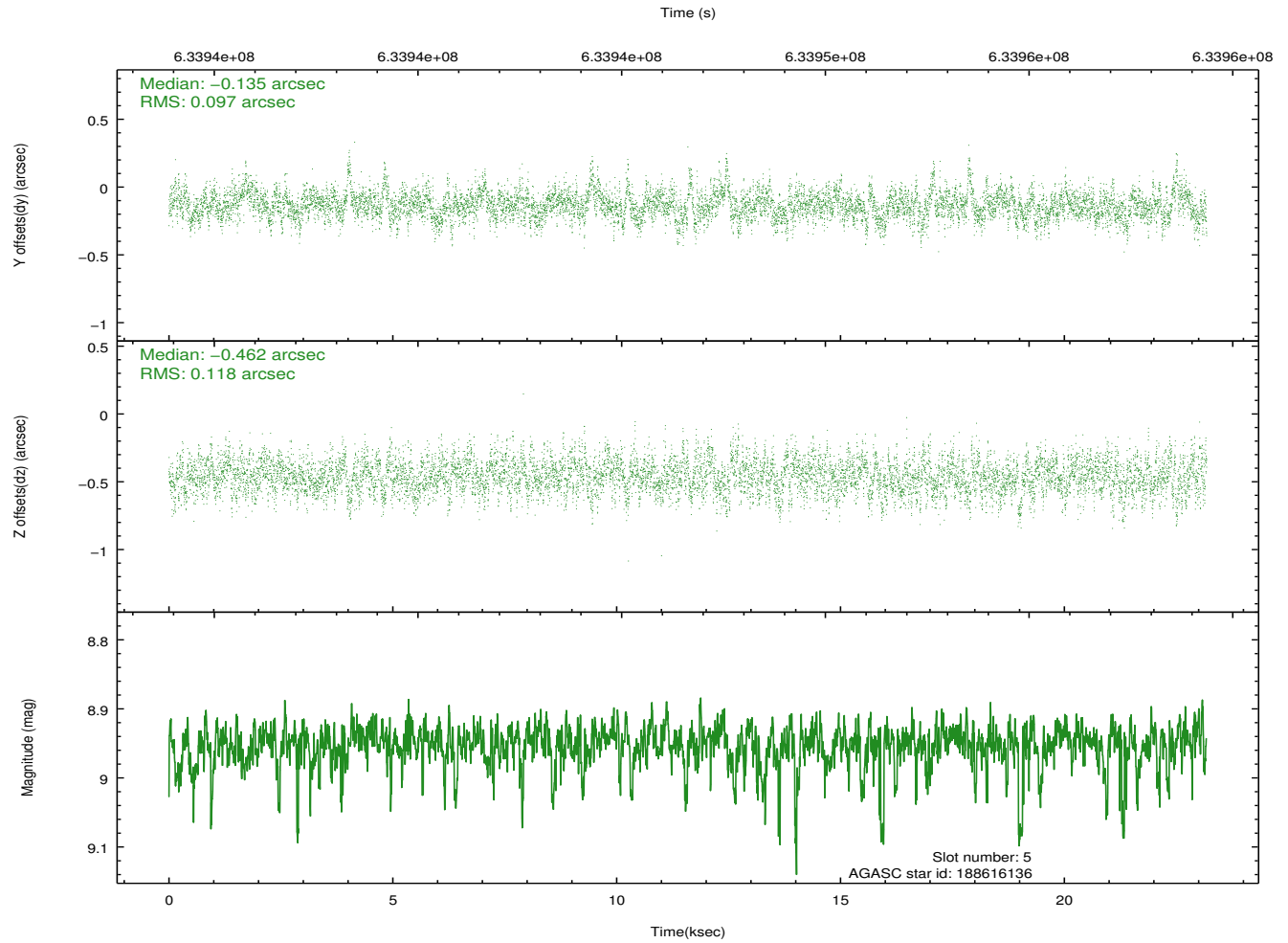
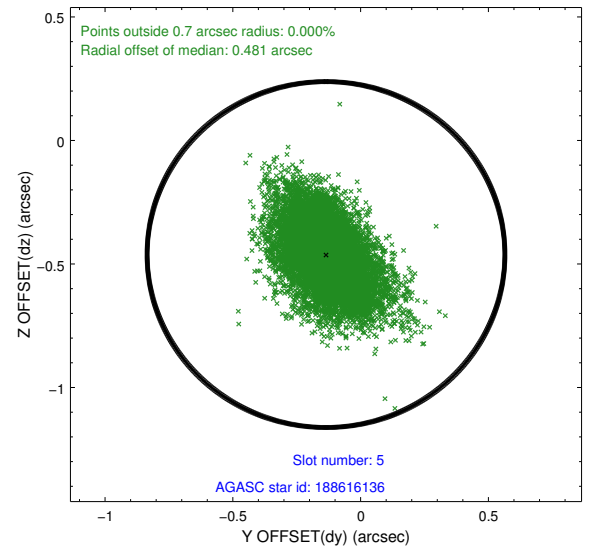
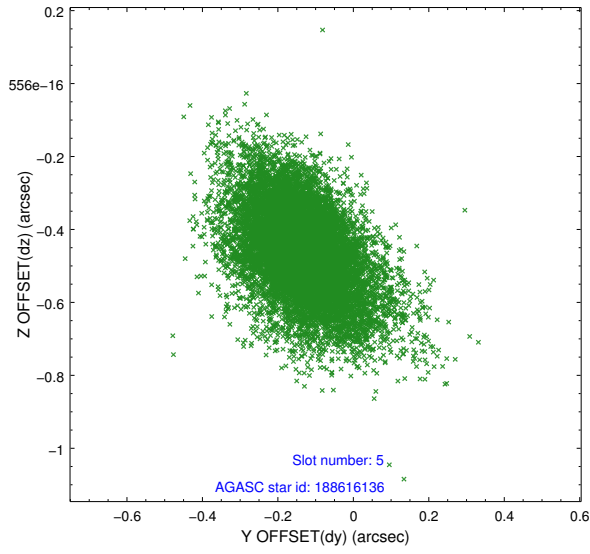
2.4.1 Slot 3



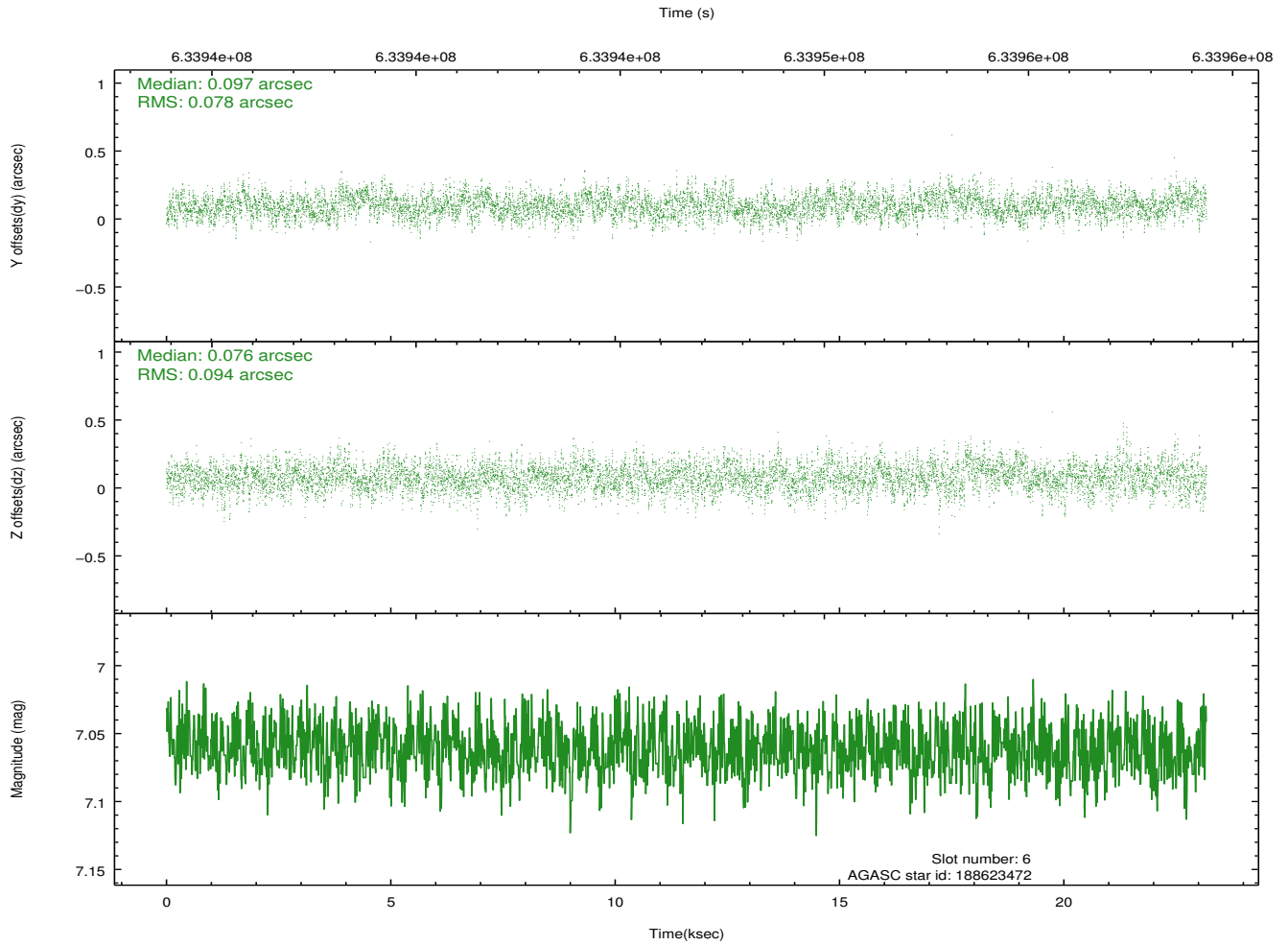
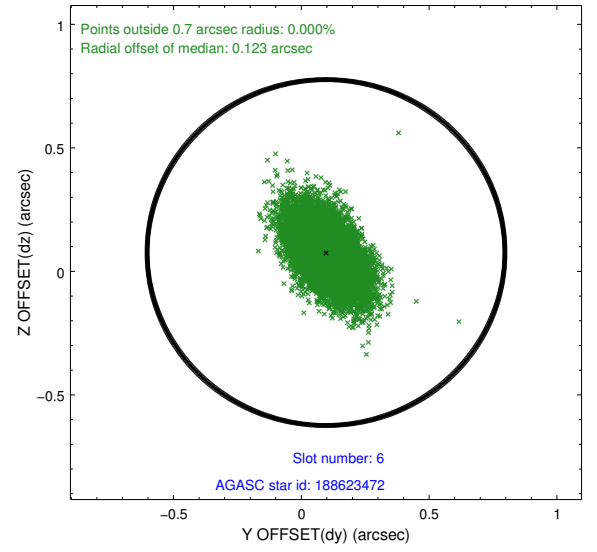
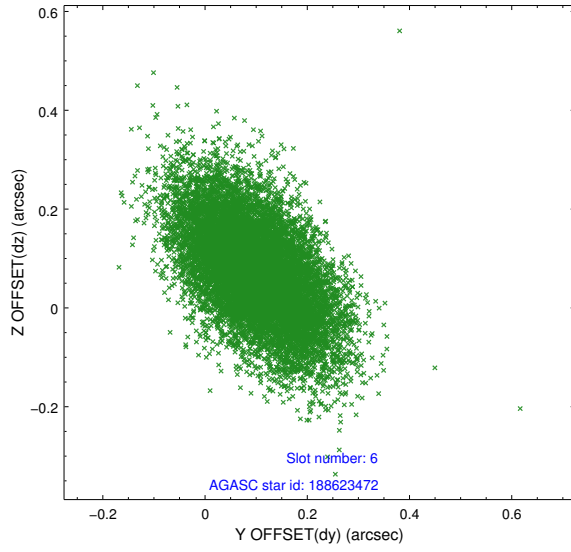
2.4.2 Slot 4



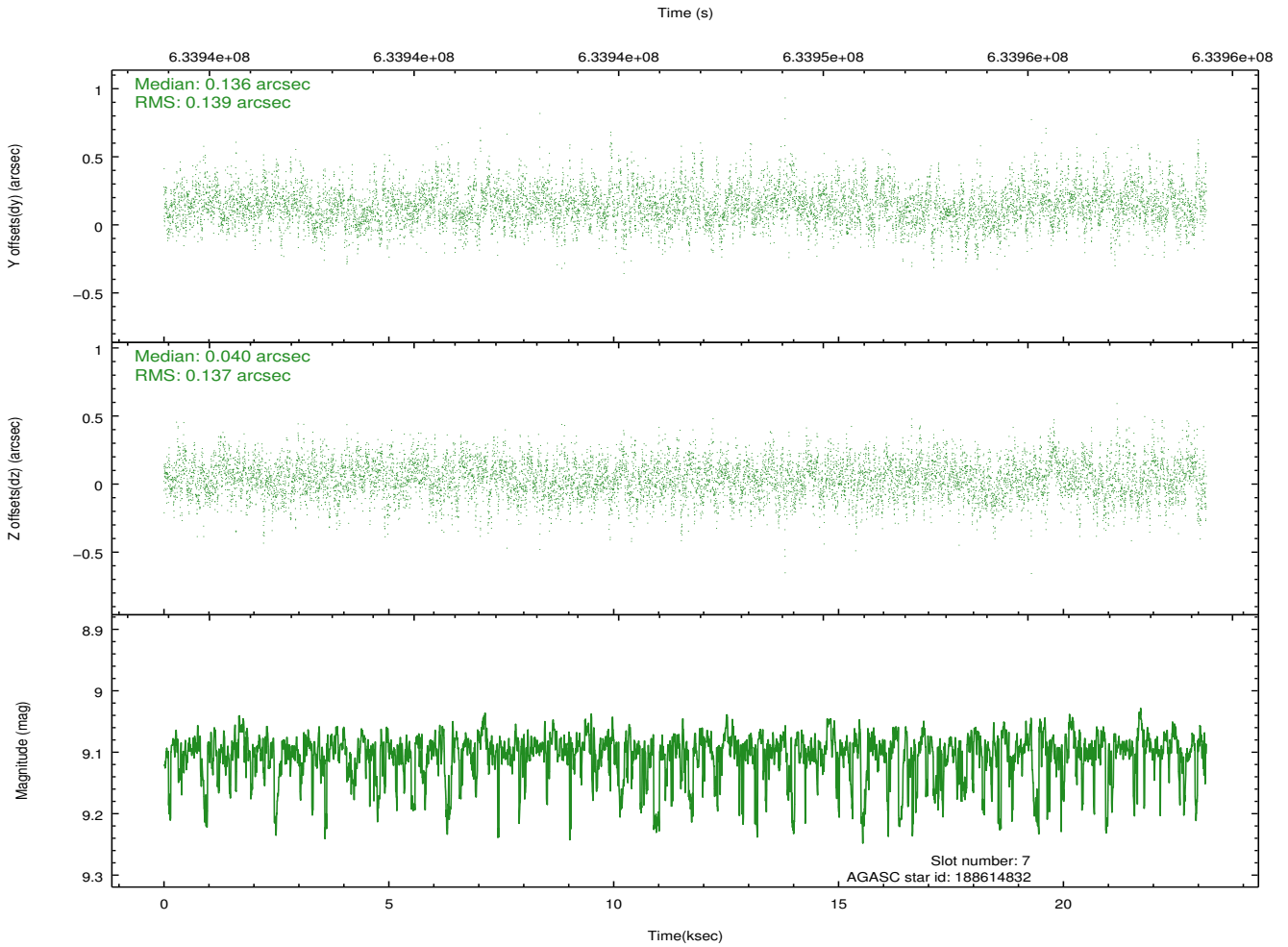
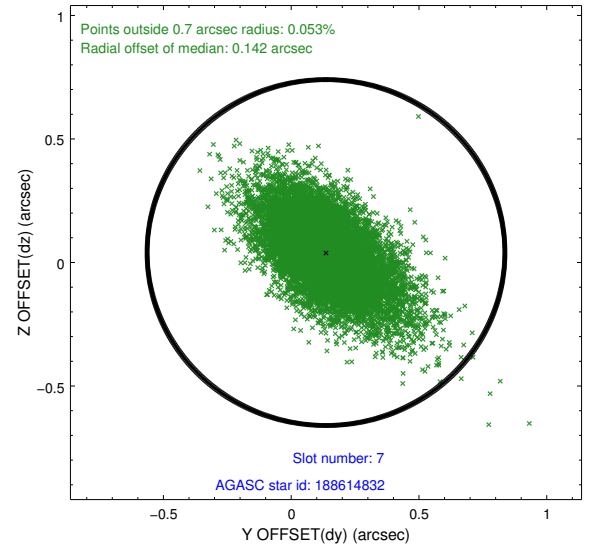
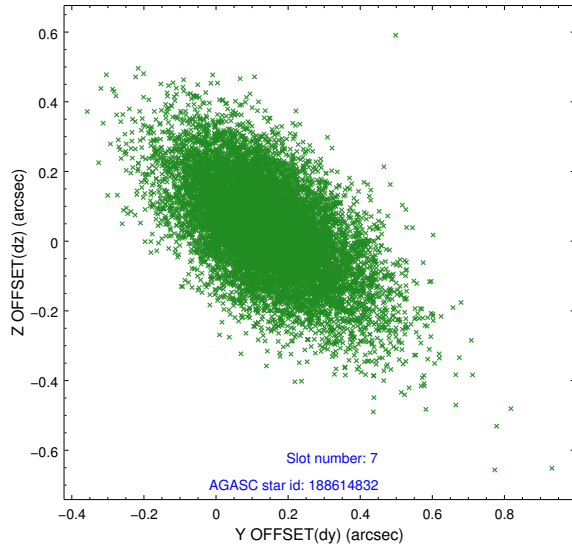
2.4.3 Slot 5



2.4.4 Slot 6

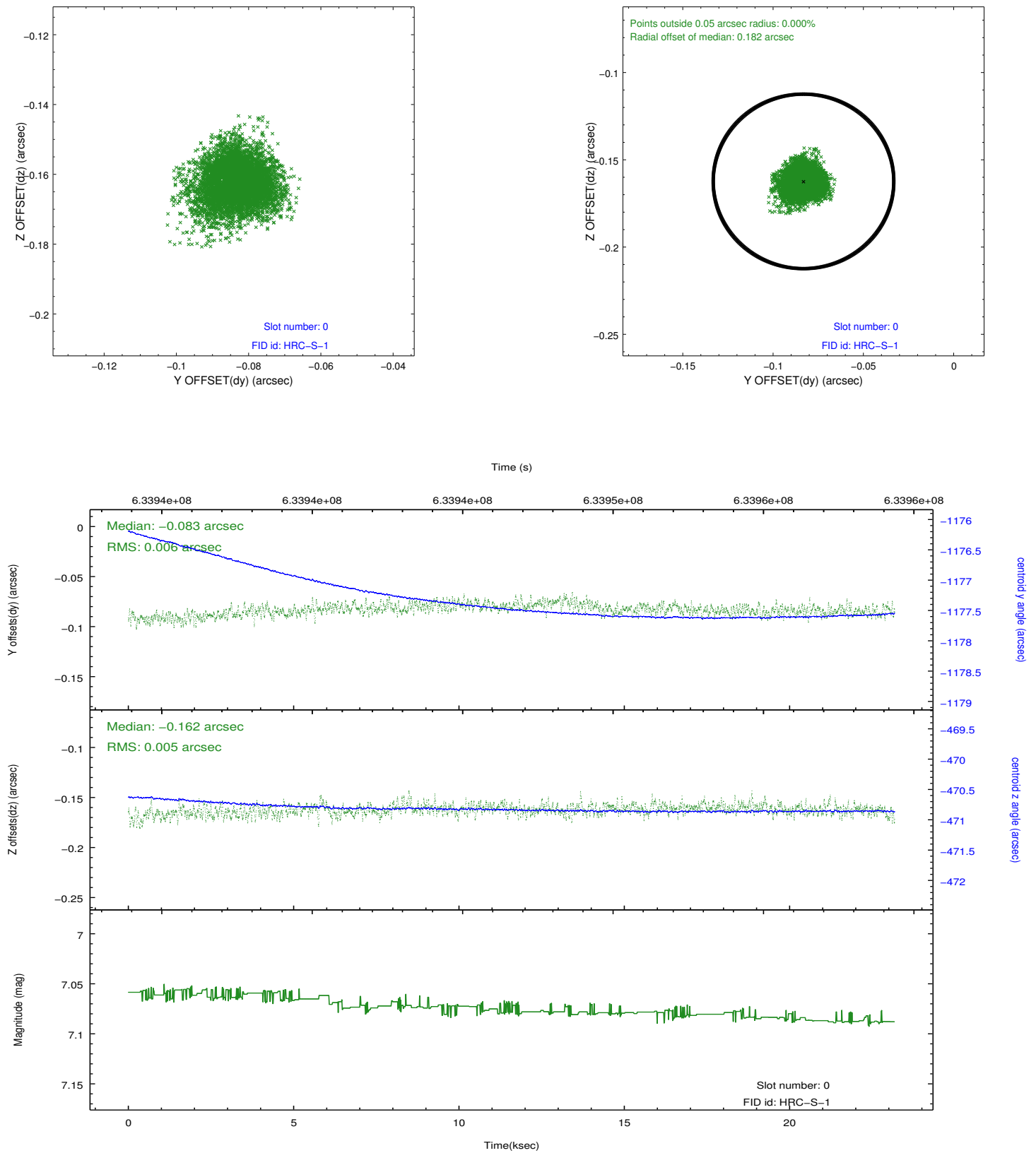


2.4.5 Slot 7

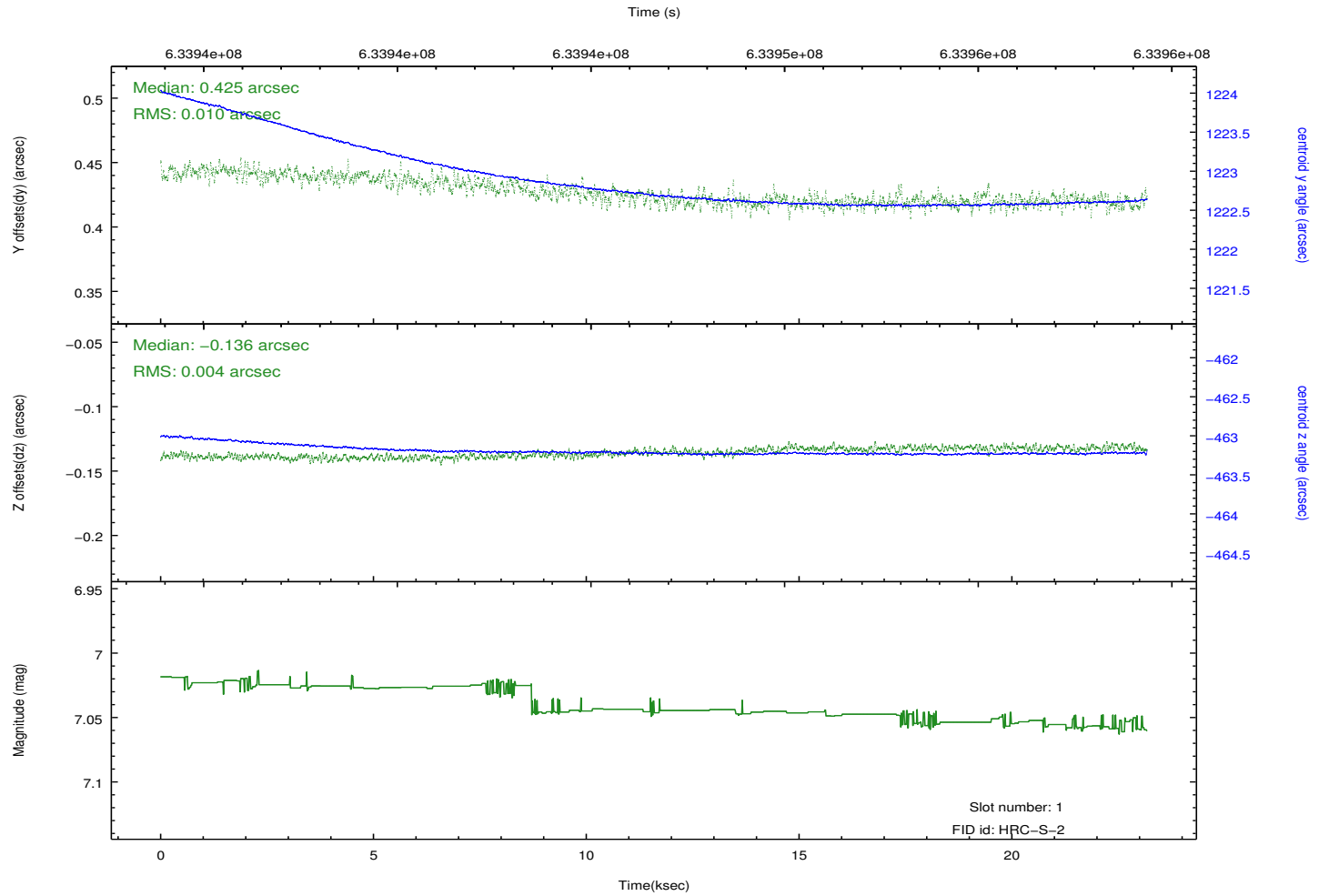
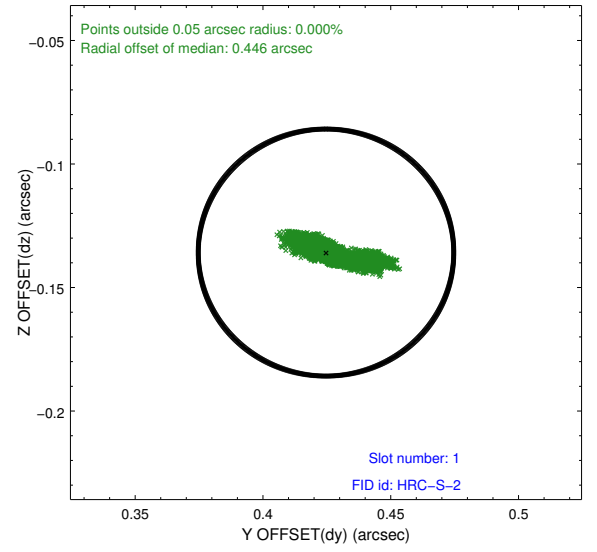
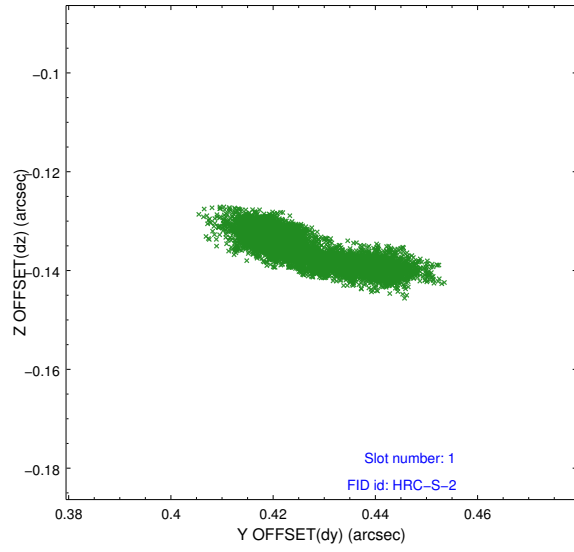


2.5 FID Slots

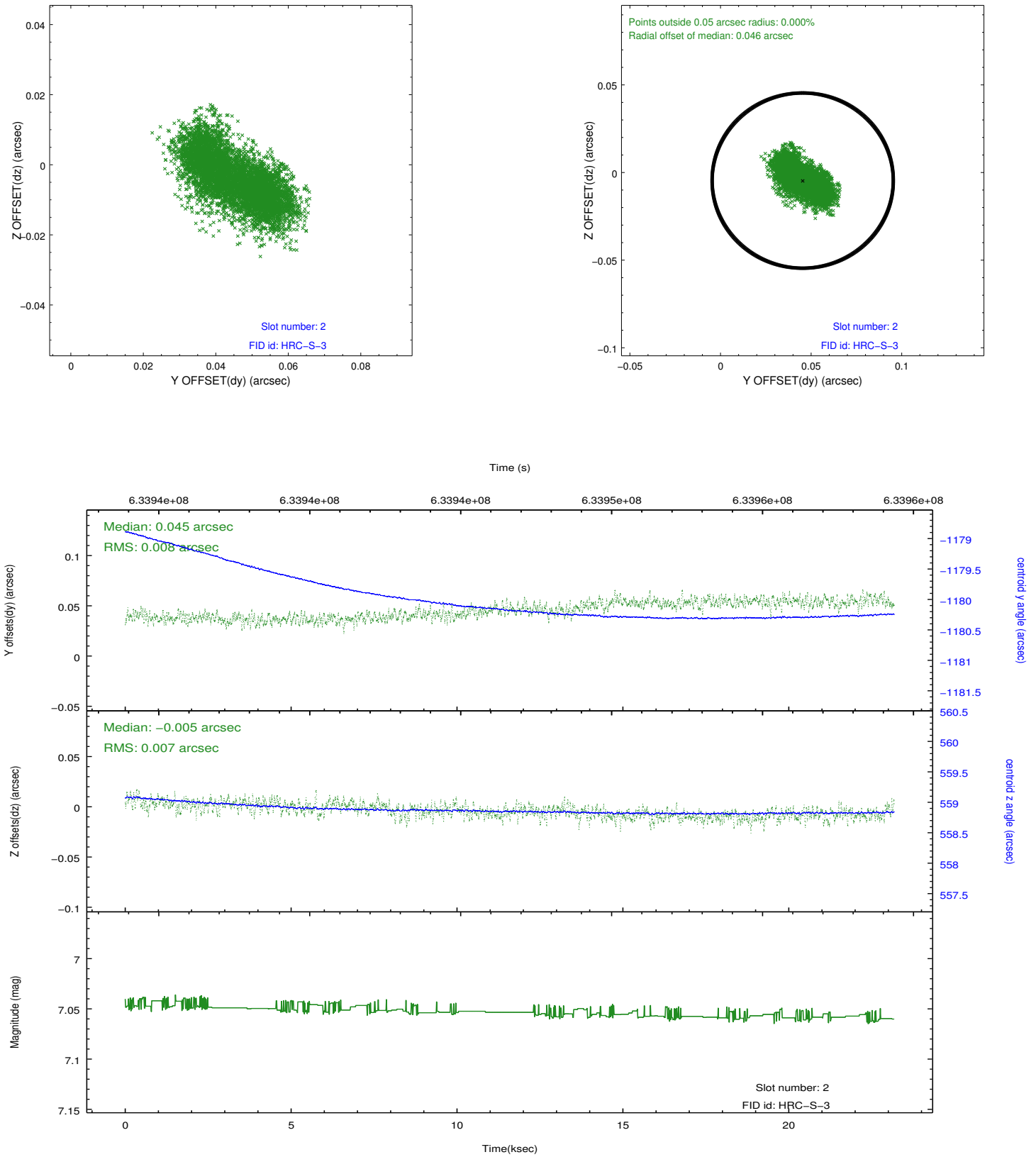
2.5.1 Slot 0



2.5.2 Slot 1

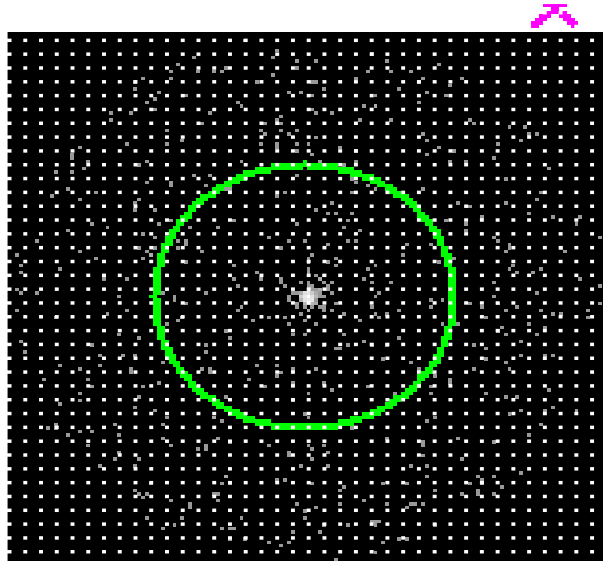


2.5.3 Slot 2

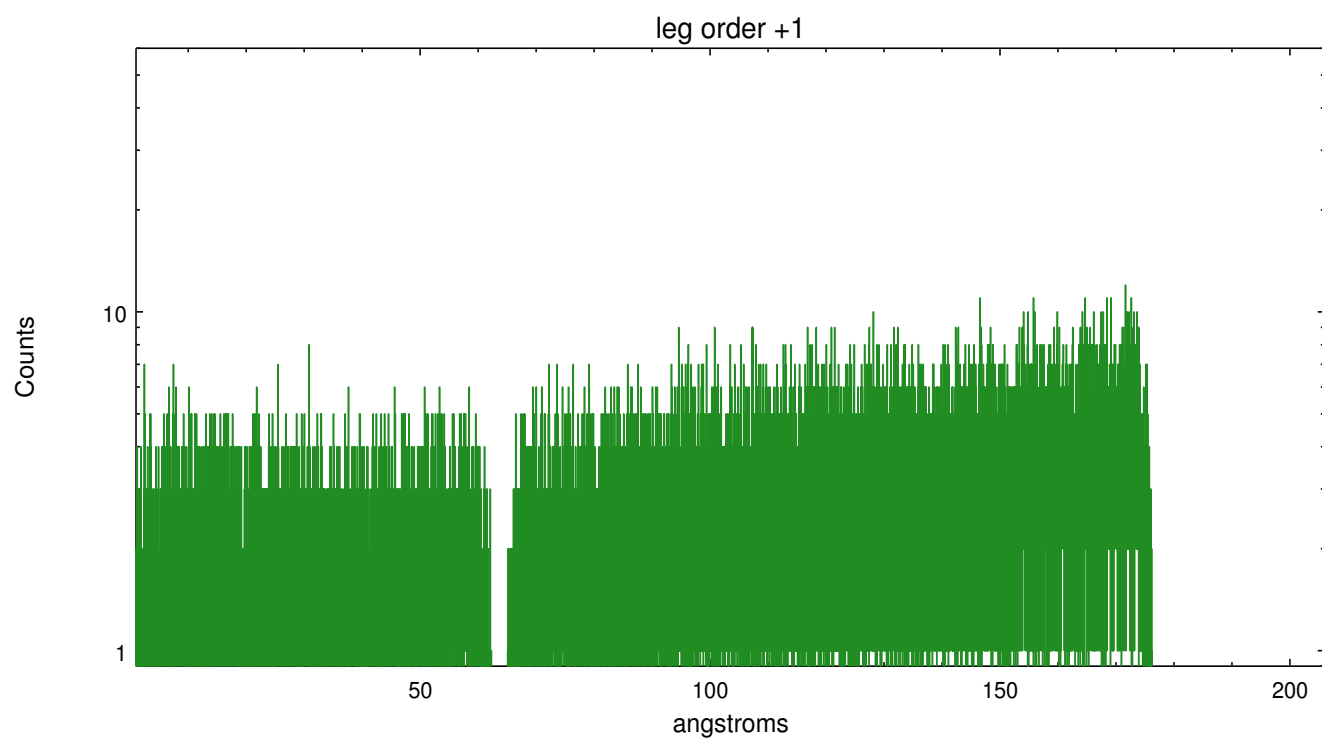
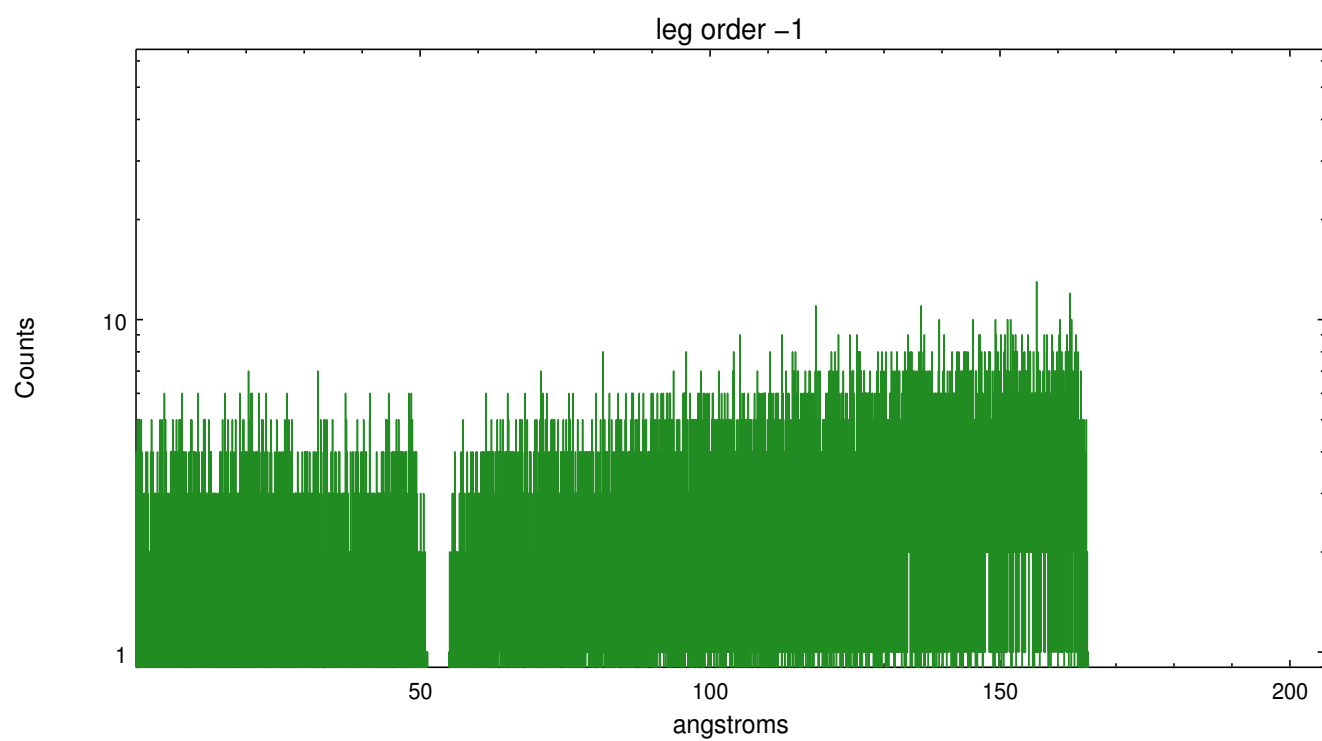


3 Gratings

3.1 LETG Arm



LETG Zero Order



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2018.02.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	23.178198244452

A.2 Comments