

V&V Reference Report

L2 ASCDS Version : 10.6.4

Observation 20716 - L2 Version 1
Chandra X-Ray Center

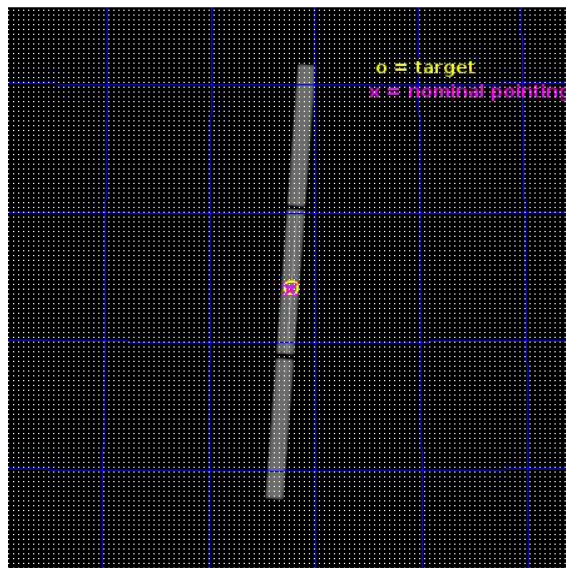
L2 Processing Date : Jul 14 2018

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1 Front

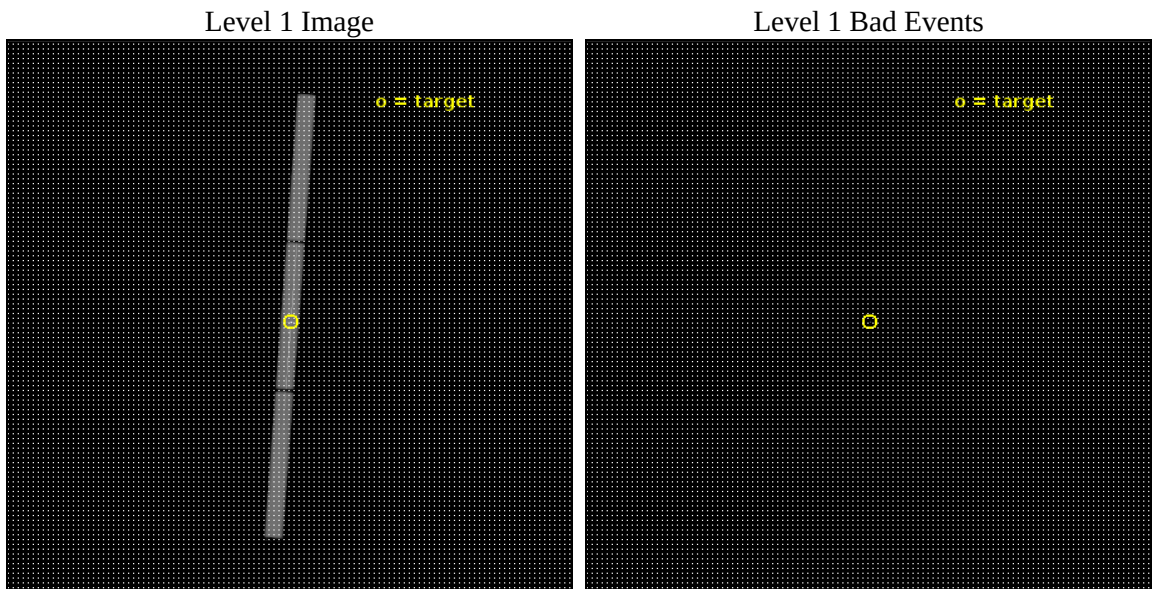
seq_num	790315	Sequence number
obs_id	20716	Observation id
title	AO-19 Calibration Observations of Mkn421	Proposal title
observer	CXC Calibration	Principal investigator
object	MKN421	Source name
ra_targ	166.113333	Observer's specified target RA [deg]
dec_targ	38.208806	Observer's specified target Dec [deg]
ra_nom	166.12041589084	Nominal RA [deg]
dec_nom	38.203223346104	Nominal Dec [deg]
roll_nom	274.04017499348	Nominal Roll [deg]
revision	1	Processing version of data
ontime	10180.300593257	[s]
livetime	10070.230182458	Ontime multiplied by DTCOR
l2events	1043756	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	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.6.4	Processing system revision	ontime	10180.300603271	[s]
caldbver	4.7.8	 	l1events	1289388	Number of level 1 events
date	2018-07-14T06:26:18	Date and time of file creation	tgmethod	TGDETECT	Method used to create src1a file
revision	1	Processing version of data	zo_pos	(32909.43, 32917.46)	src1a sky pixel position

2.1.3 Events

Level 1 Events

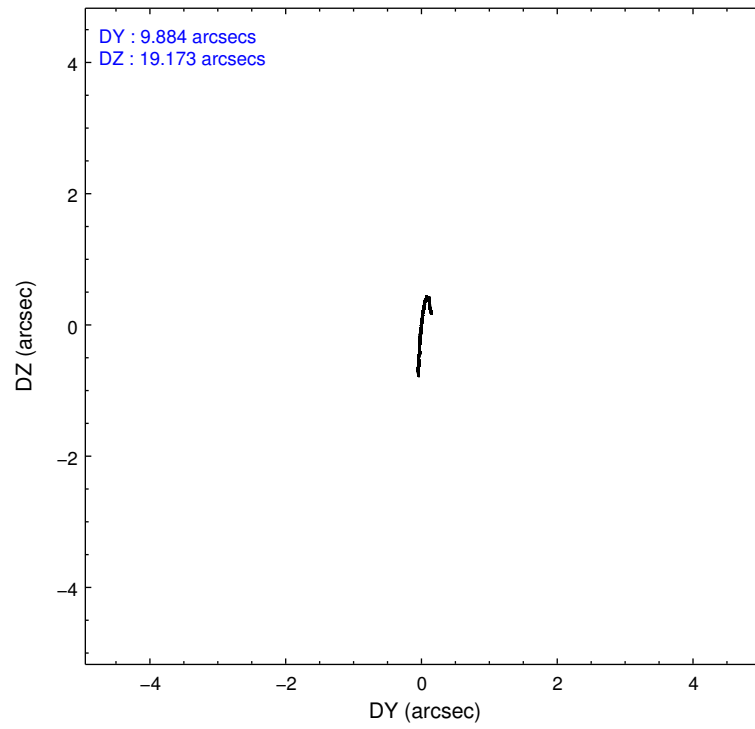
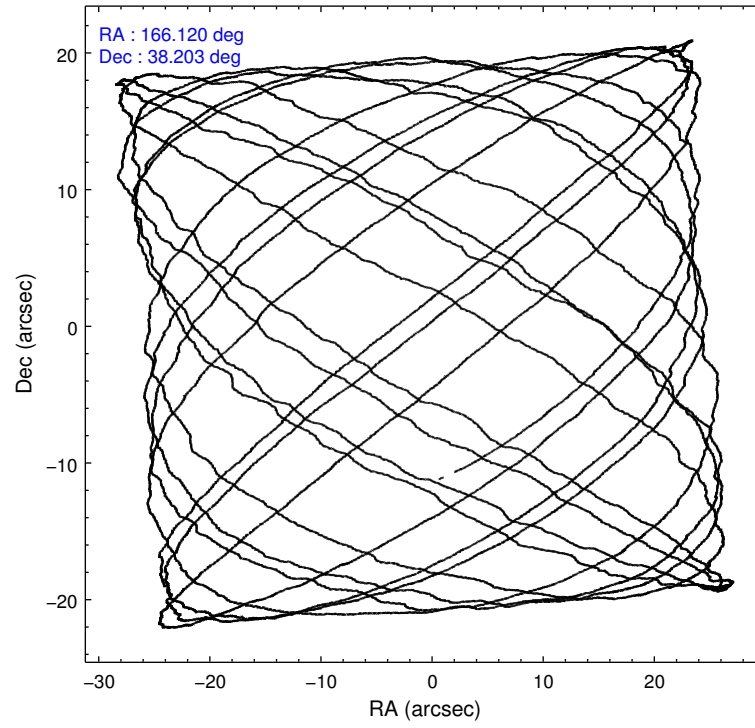
	segment 1	segment 2	segment 3
level 1 events	394274	502695	392419
rejected events	10995	13040	10790
rejected %	2%	2%	2%

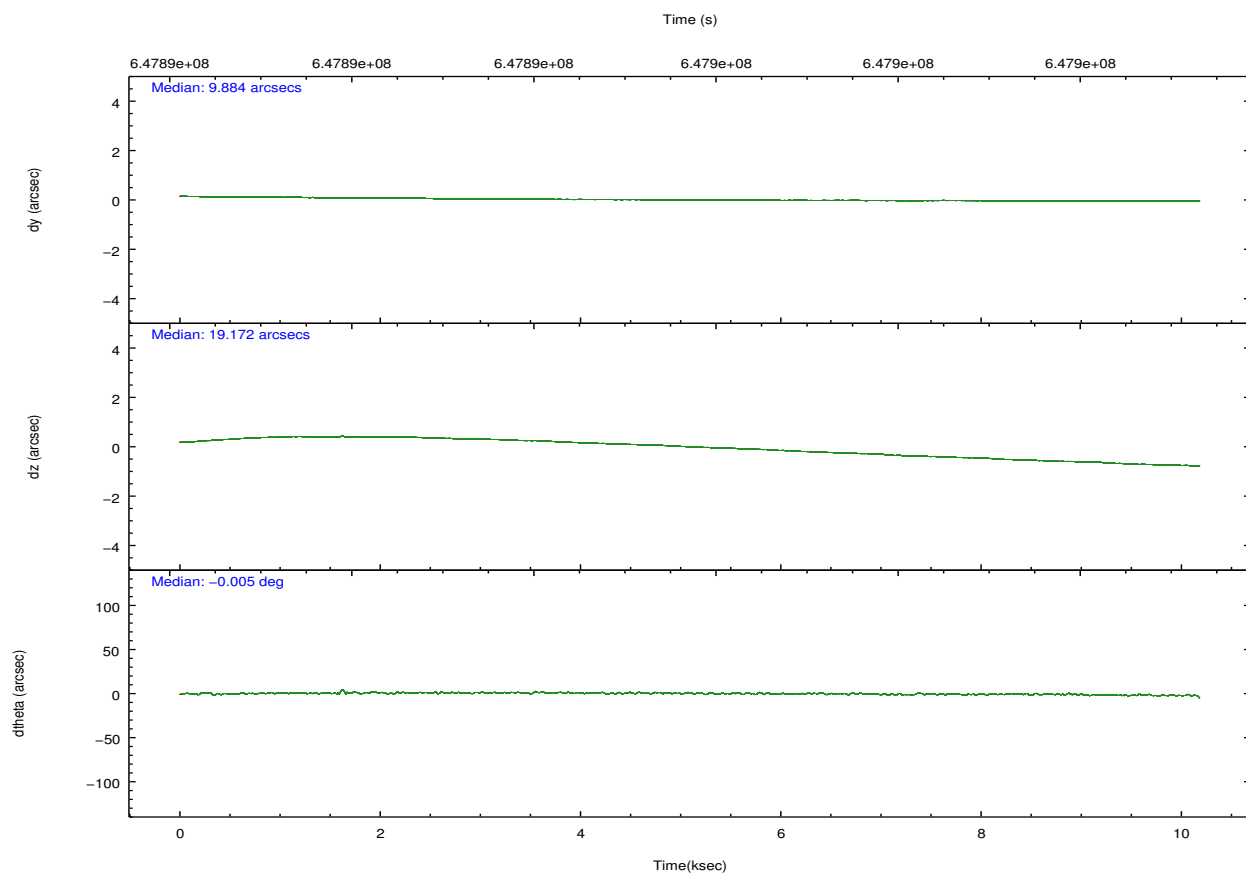
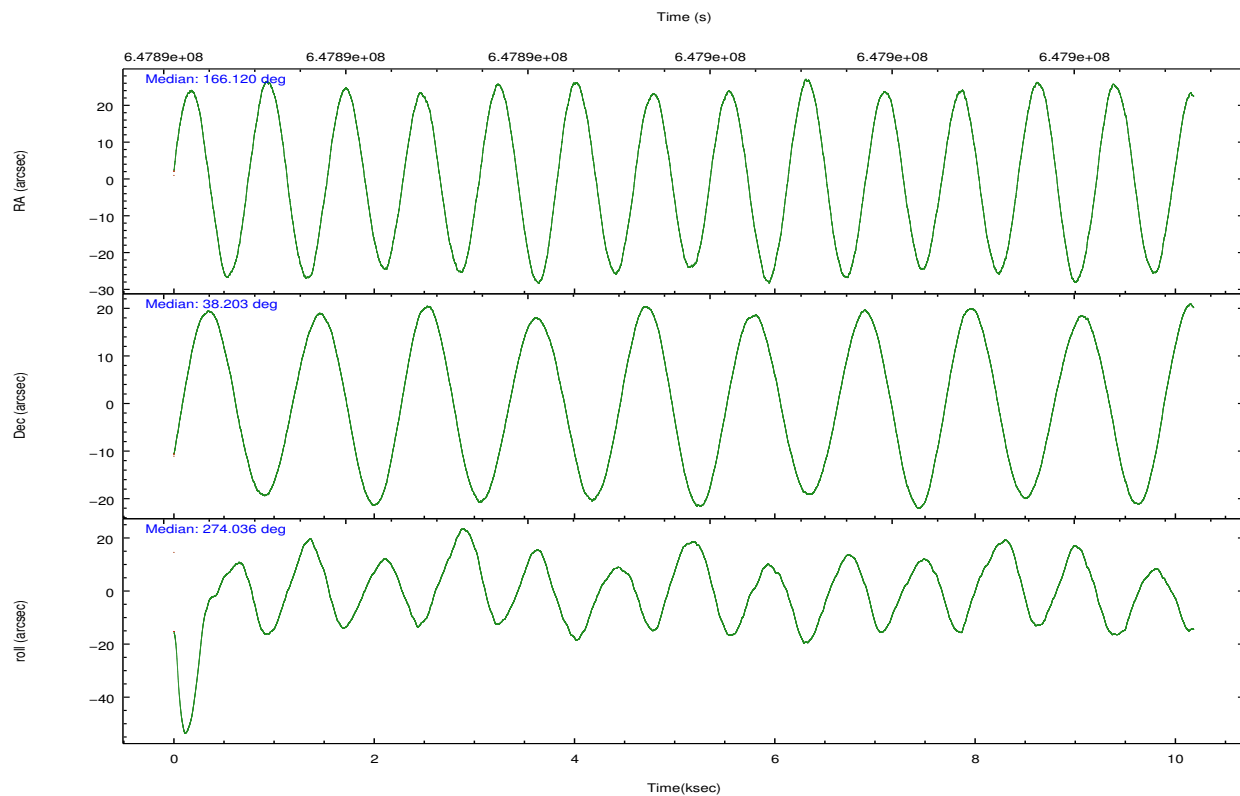
2.2 Compared Parameters

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	166.098307	166.1204158908446
[deg] Pointing Dec	38.226229	38.2032233461038
[deg] Pointing Roll	273.986523	274.0401749934798
[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)	647890785.184000	647890316.9274499
Observation start date	2018-07-13T17:38:36	2018-07-13T17:31:56
[s] Observation end time (MET)	647900785.184000	647901057.39059
Observation end date	2018-07-13T20:25:16	2018-07-13T20:30:57

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

2.3 Aspect



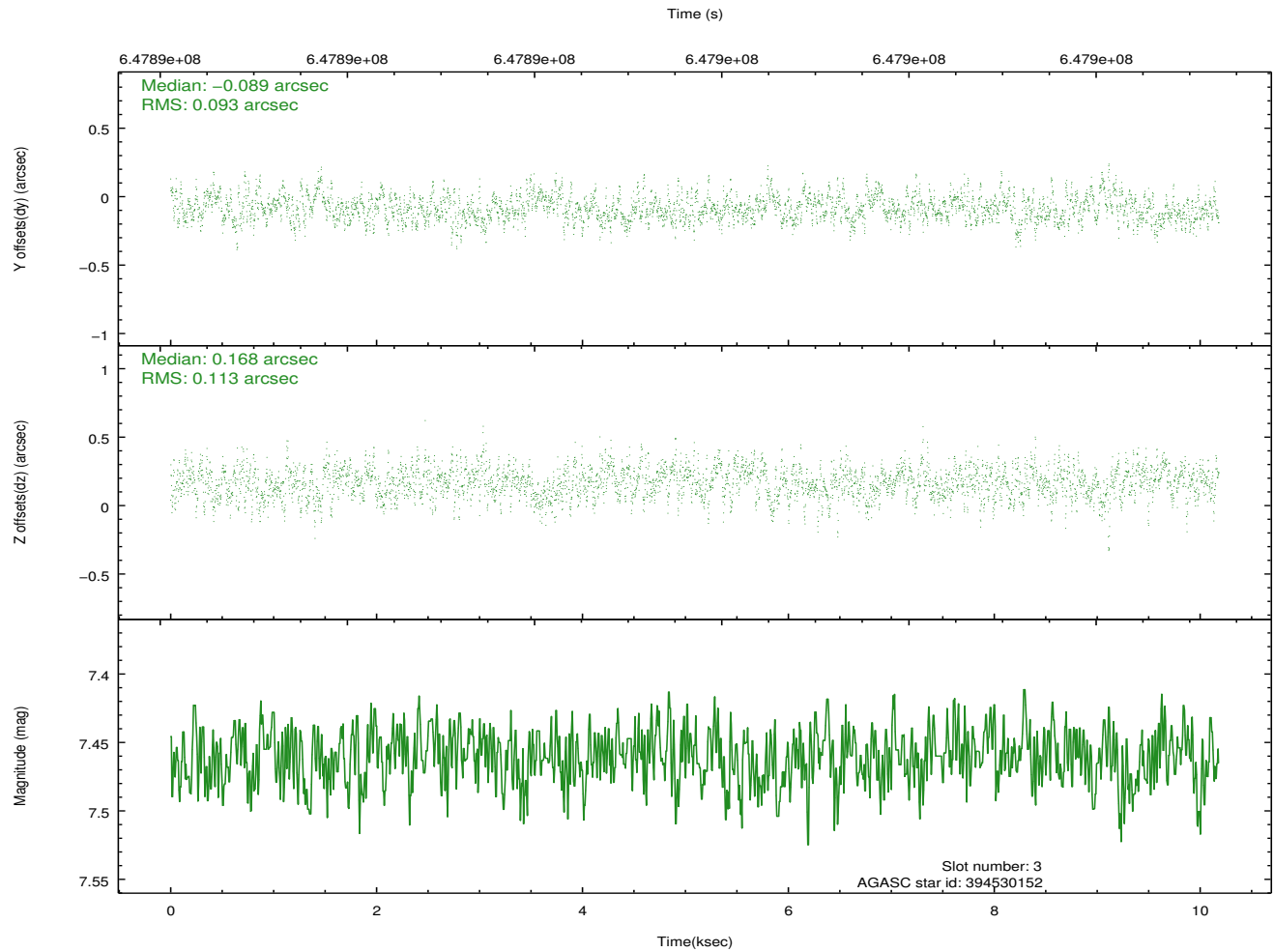
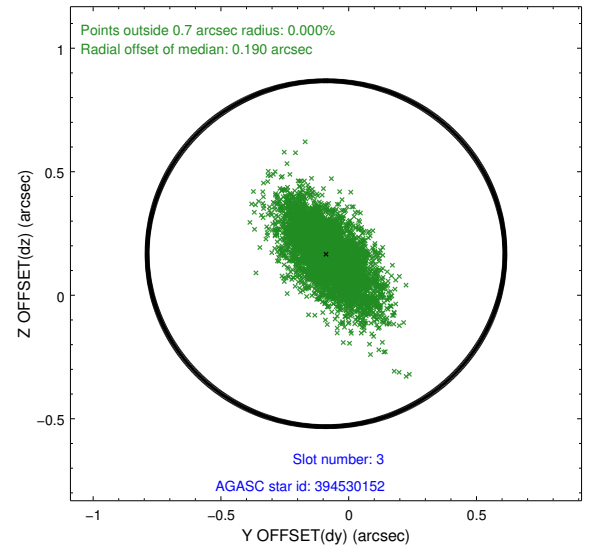
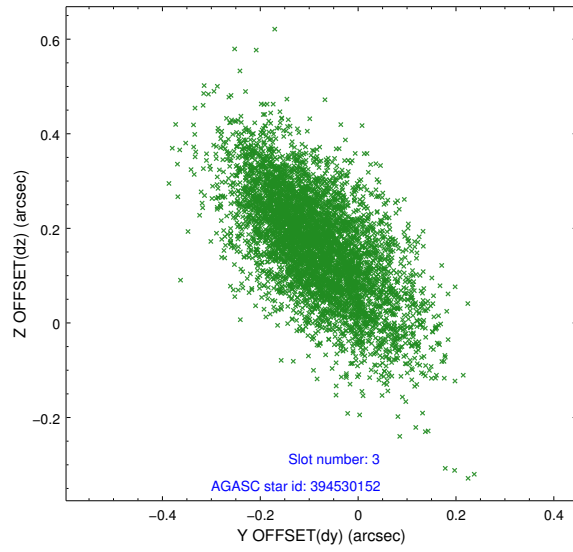


Slot Statistics

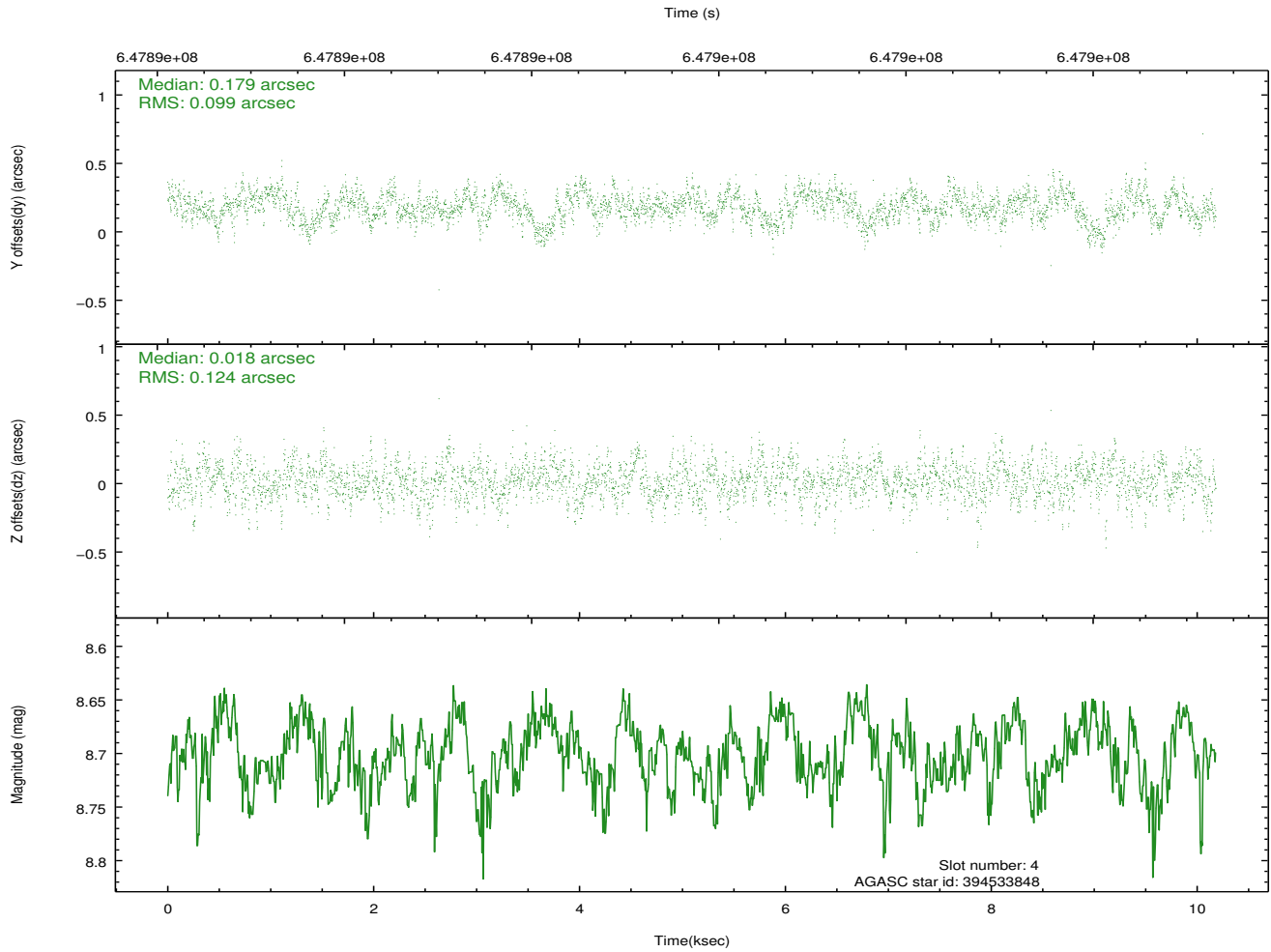
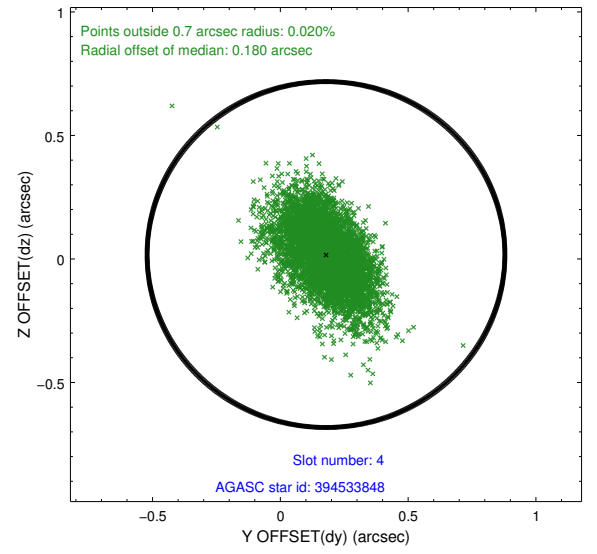
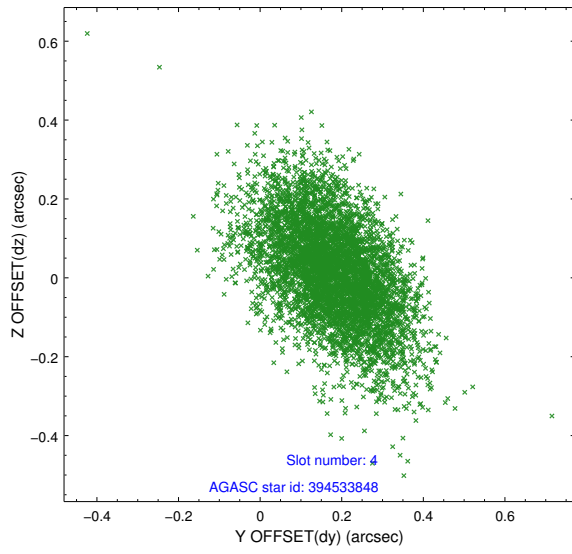
id	status	used	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_x
0	FID		7.06	2483	1.000	0.026	-0.222	0.016	0.035	0.000000	0.000000	-1164.18	-468
1	FID		7.04	2484	1.000	0.291	-0.124	0.007	0.013	0.000000	0.000000	1235.29	-460
2	FID		7.06	2484	1.000	0.073	0.044	0.018	0.037	0.000000	0.000000	-1166.39	561
3	GUIDE	used	7.46	4967	1.000	-0.089	0.168	0.150	0.268	166.075805	38.868252	-2309.56	96
4	GUIDE	used	8.70	4964	1.000	0.179	0.018	0.165	0.286	166.382906	38.276007	-125.34	808
5	GUIDE	used	9.73	4955	1.000	0.101	0.139	0.252	0.426	165.802757	37.787371	1517.11	-948
6	GUIDE	used	6.58	4968	1.000	-0.184	0.004	0.141	0.252	166.451462	38.394357	-535.49	1034
7	GUIDE	used	6.40	4967	1.000	-0.019	-0.317	0.155	0.271	166.130115	38.241361	-47.66	92

2.4 Star Slots

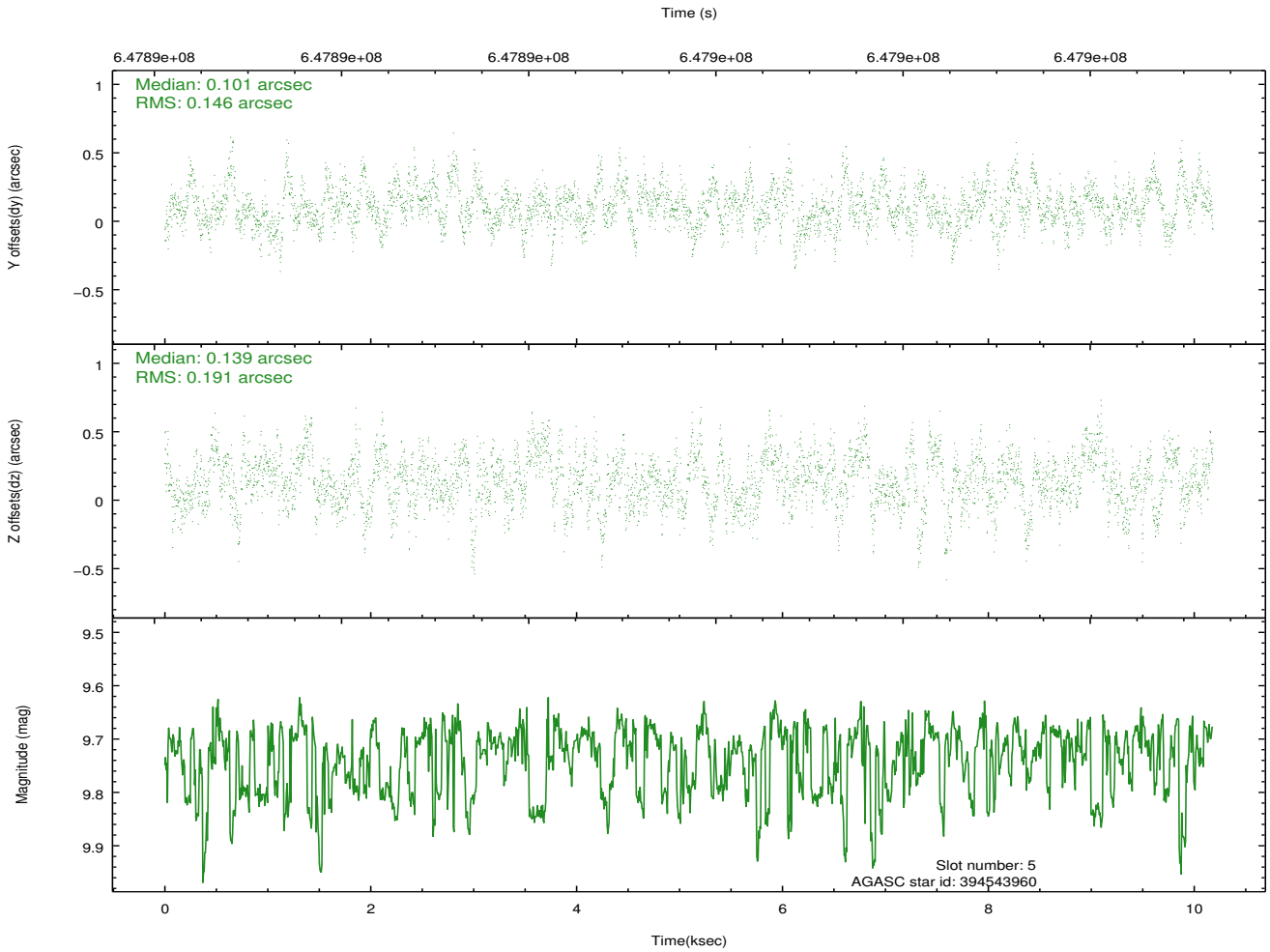
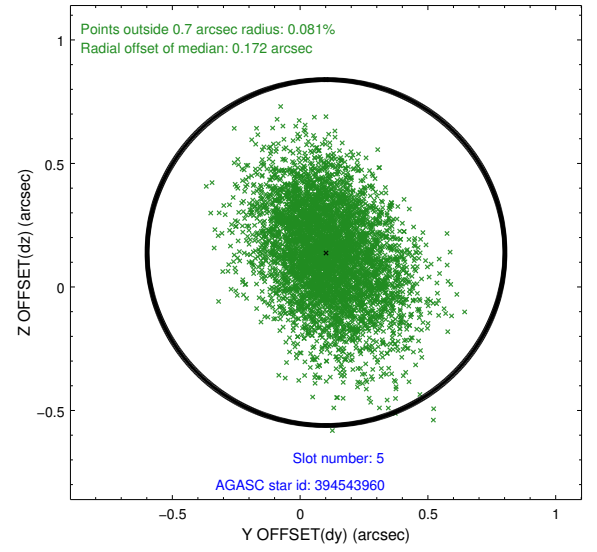
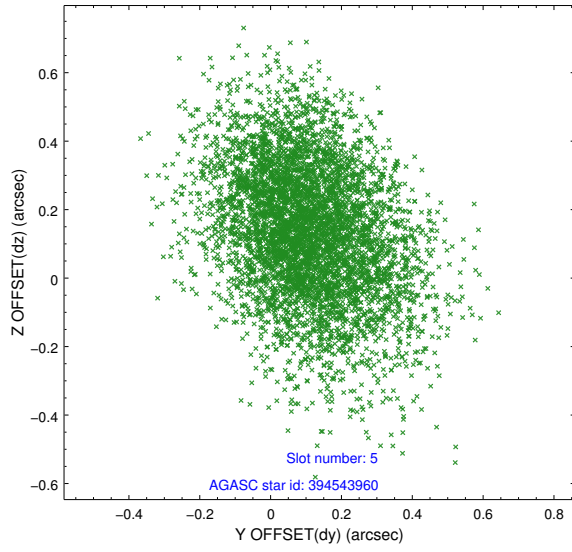
2.4.1 Slot 3



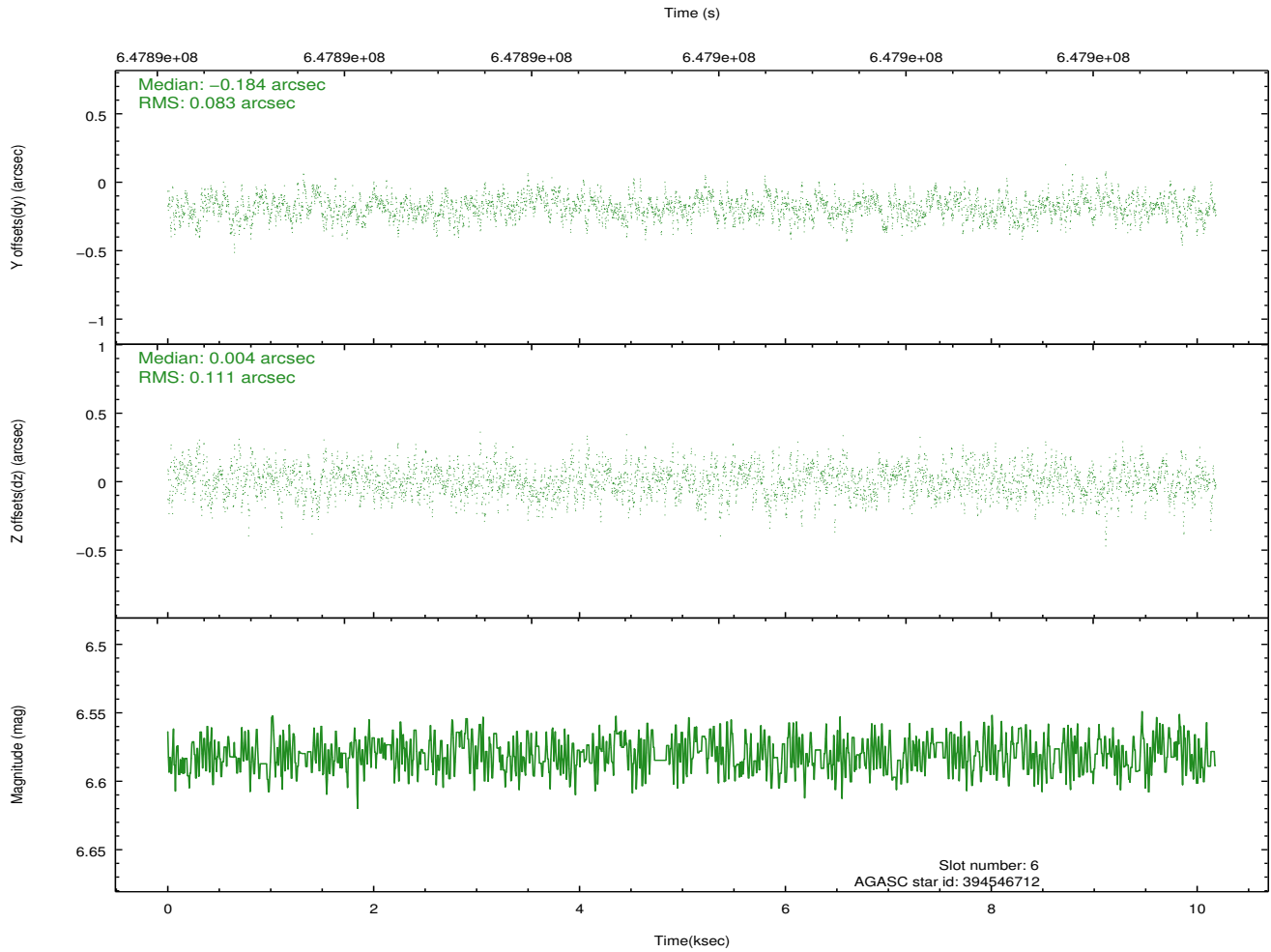
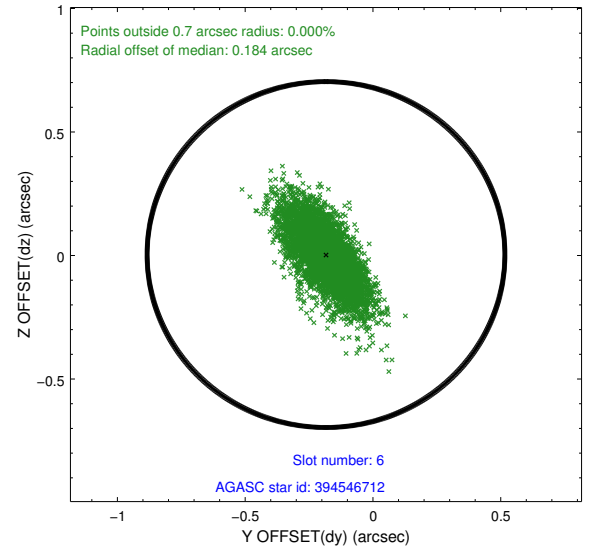
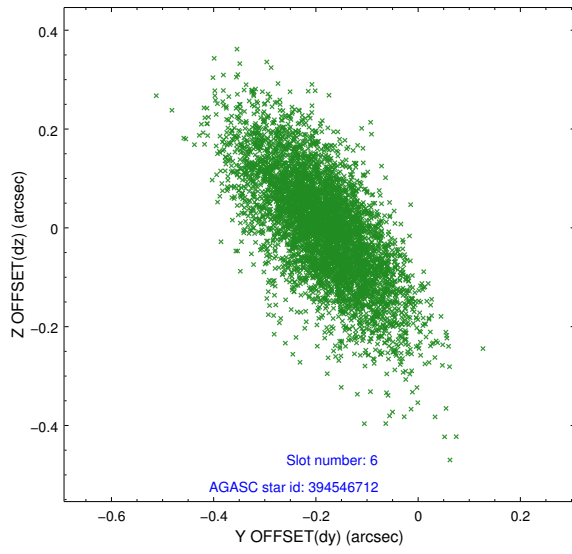
2.4.2 Slot 4



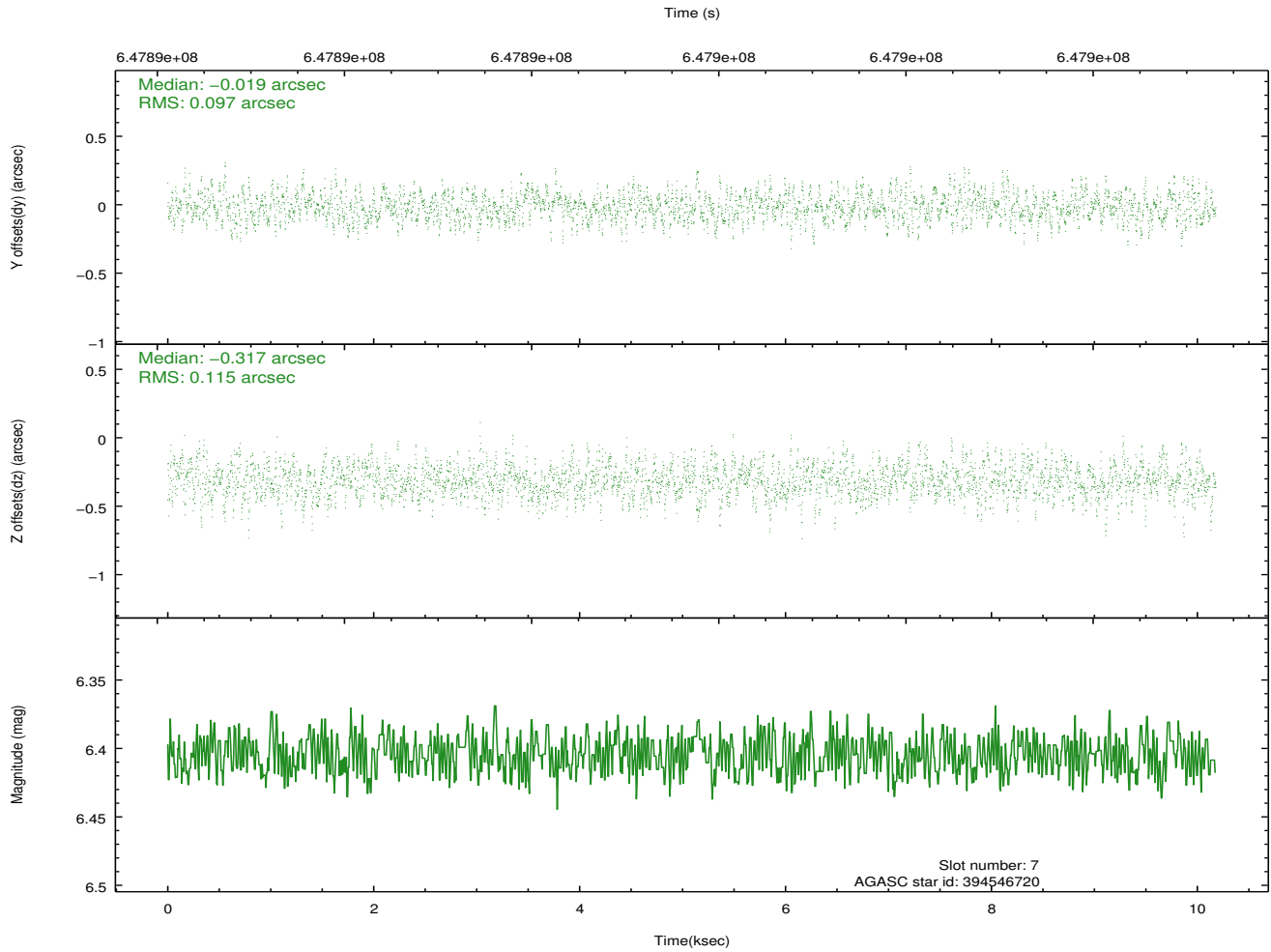
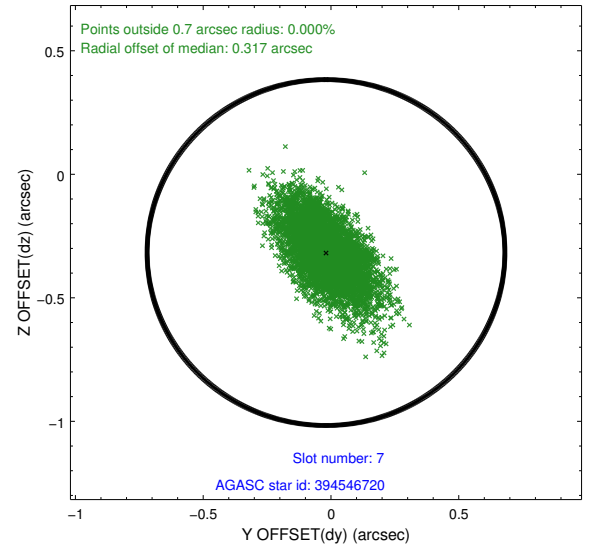
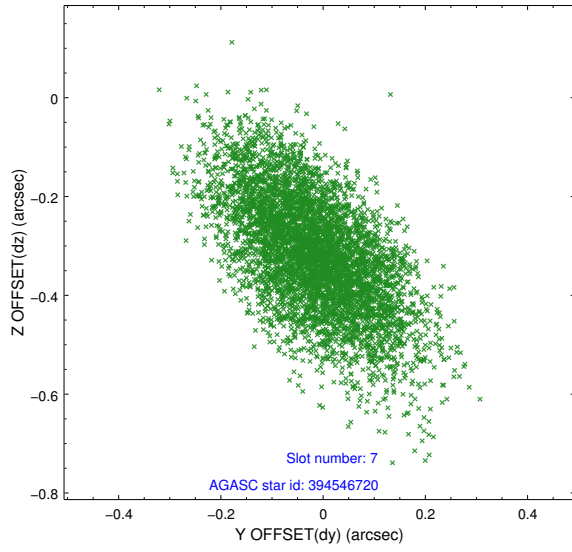
2.4.3 Slot 5



2.4.4 Slot 6

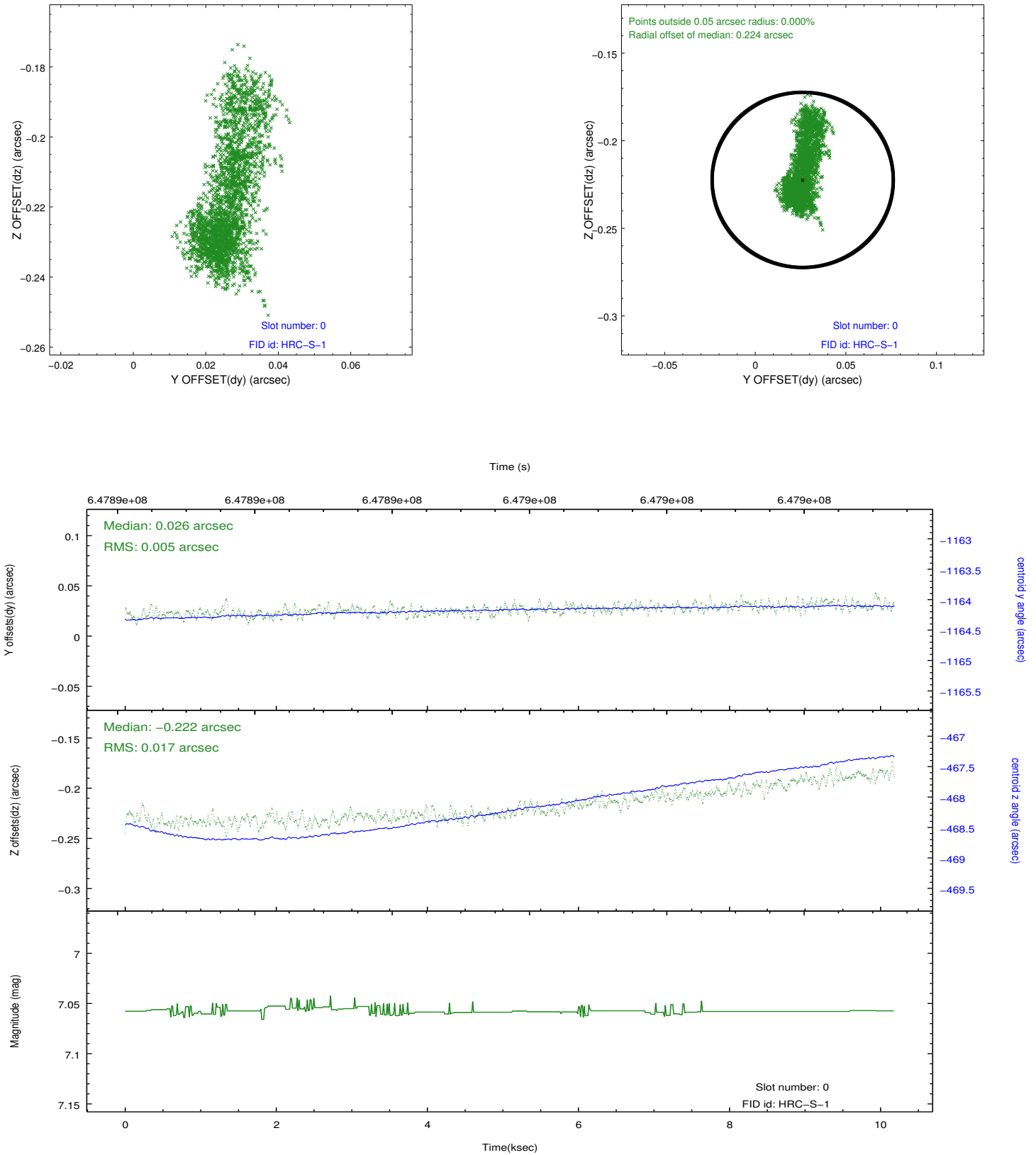


2.4.5 Slot 7

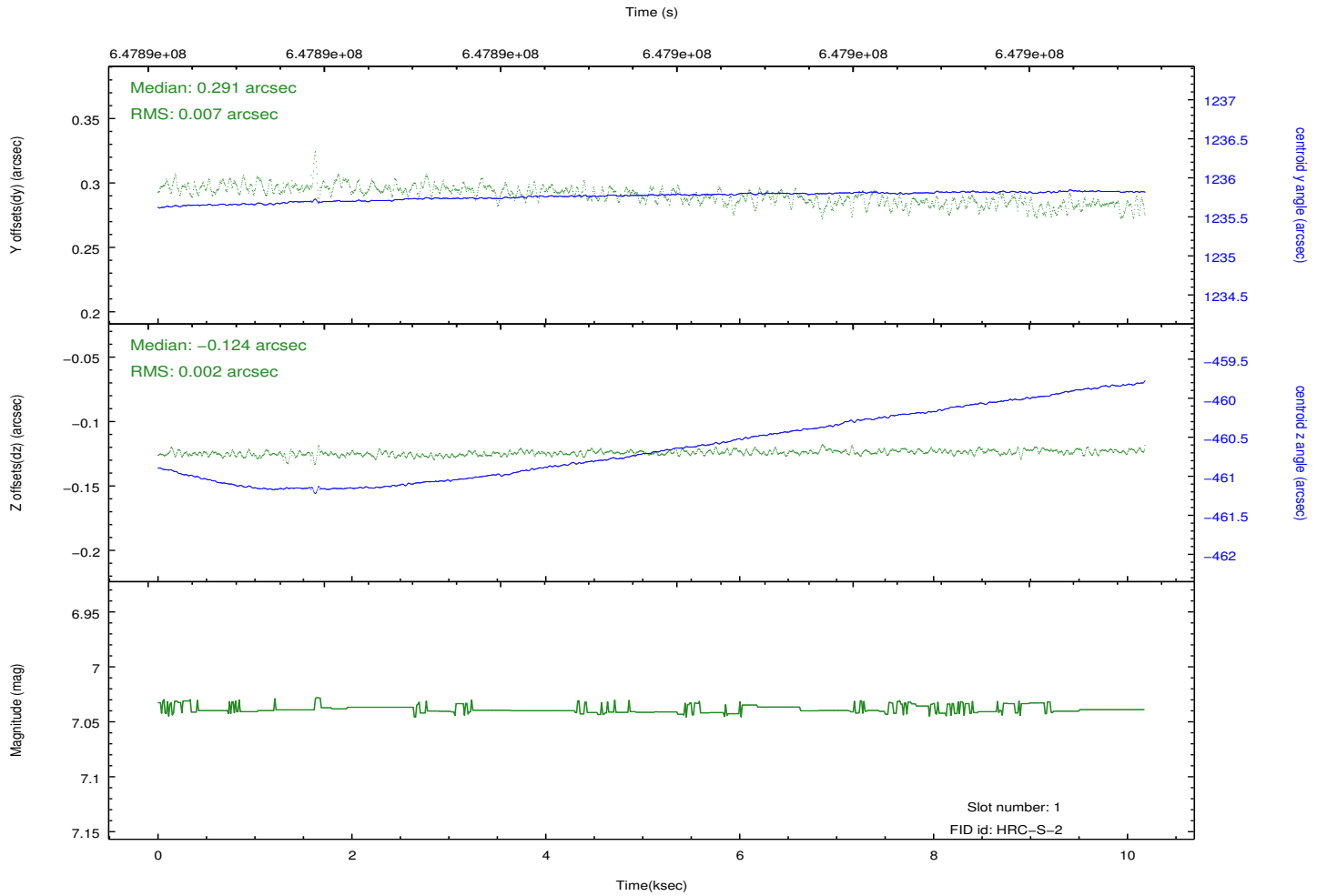
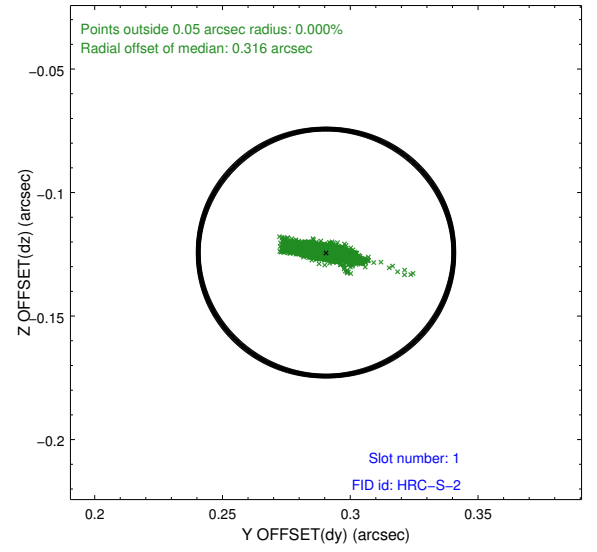
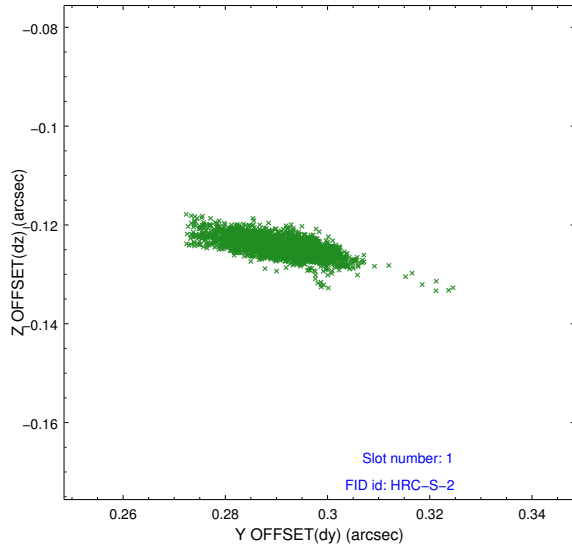


2.5 FID Slots

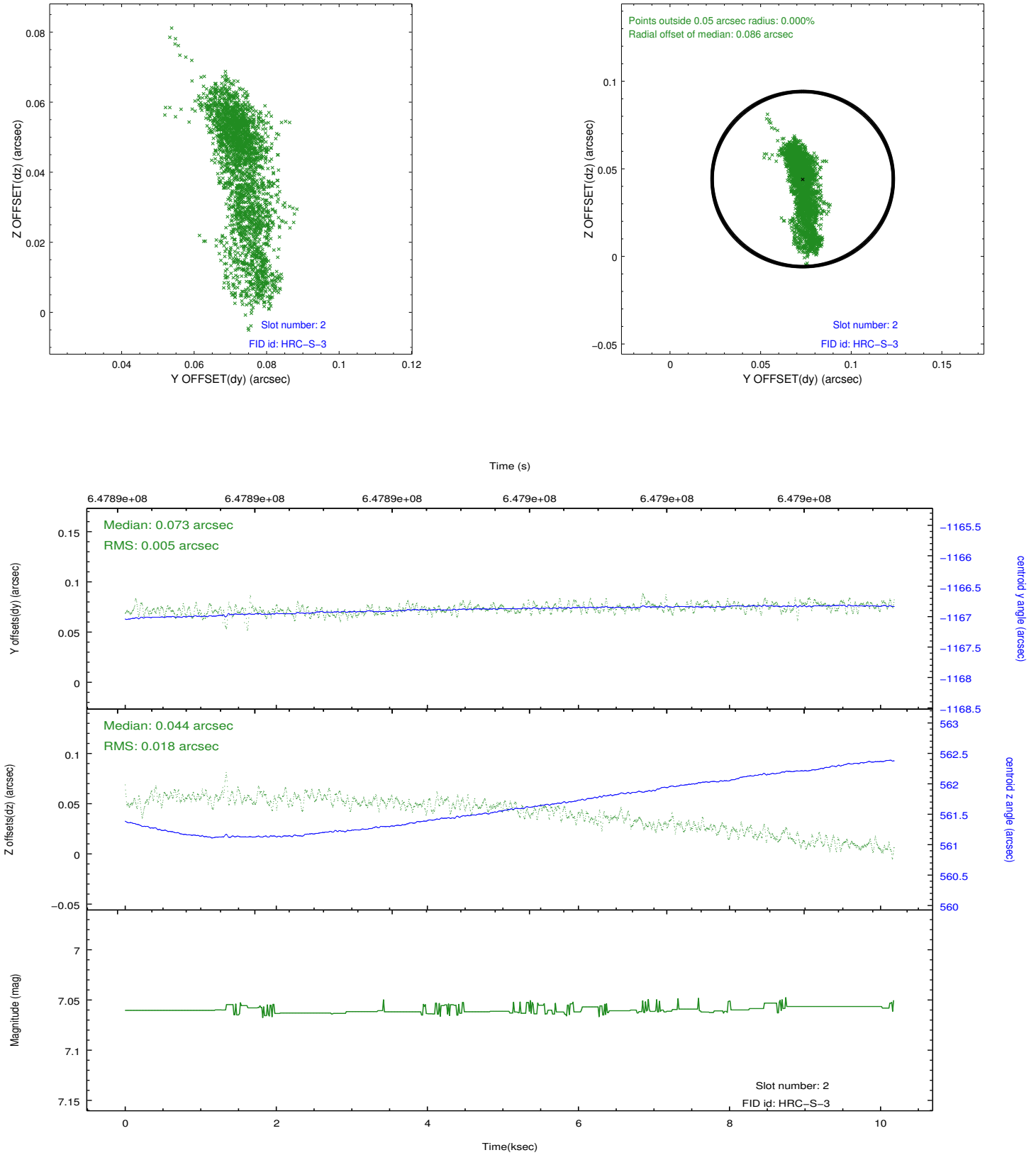
2.5.1 Slot 0



2.5.2 Slot 1

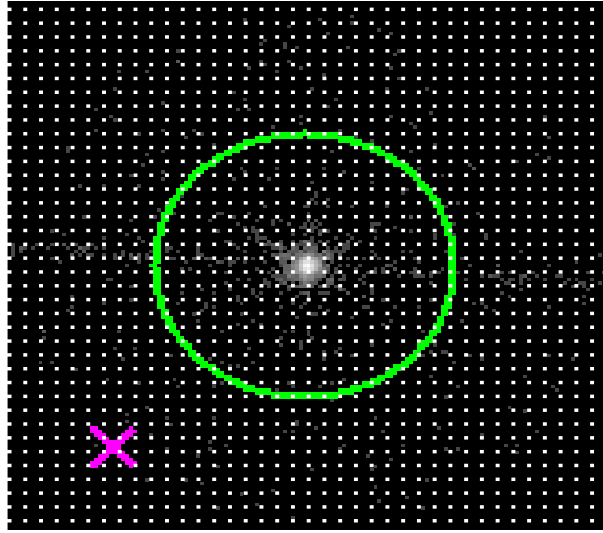


2.5.3 Slot 2

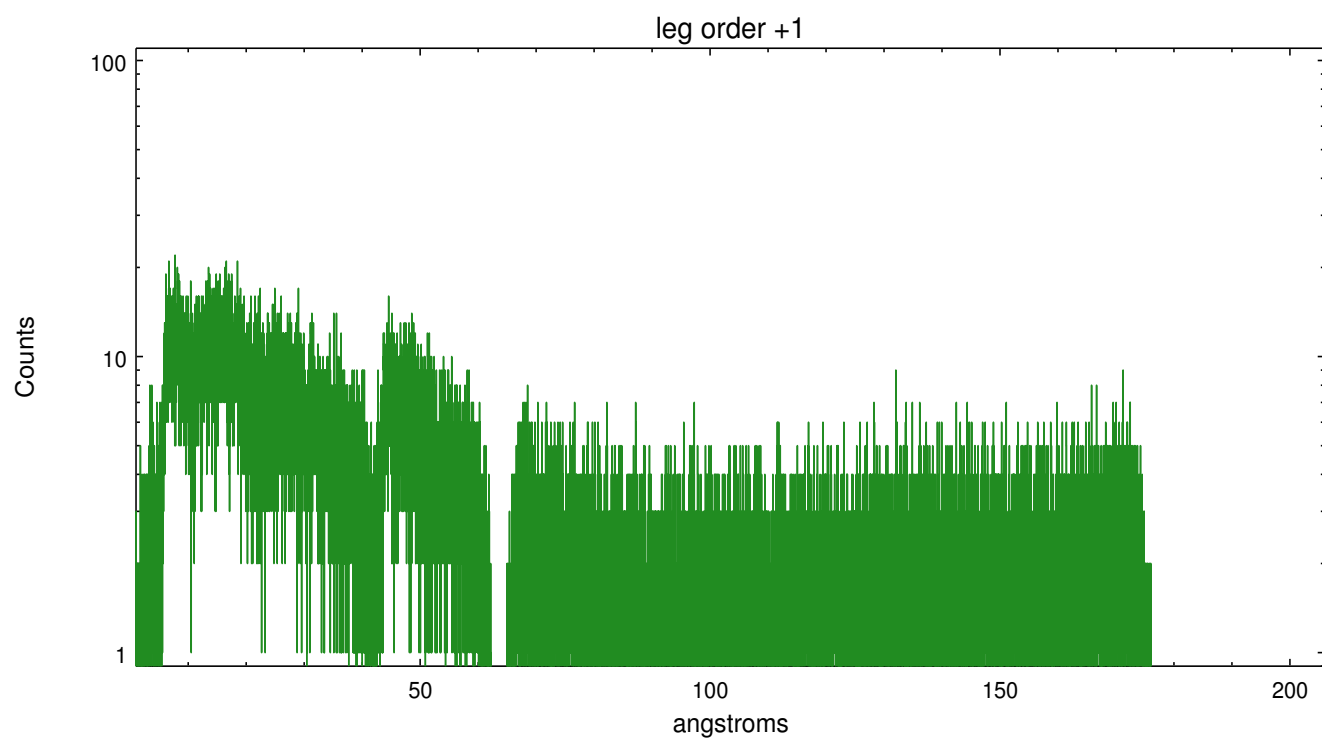
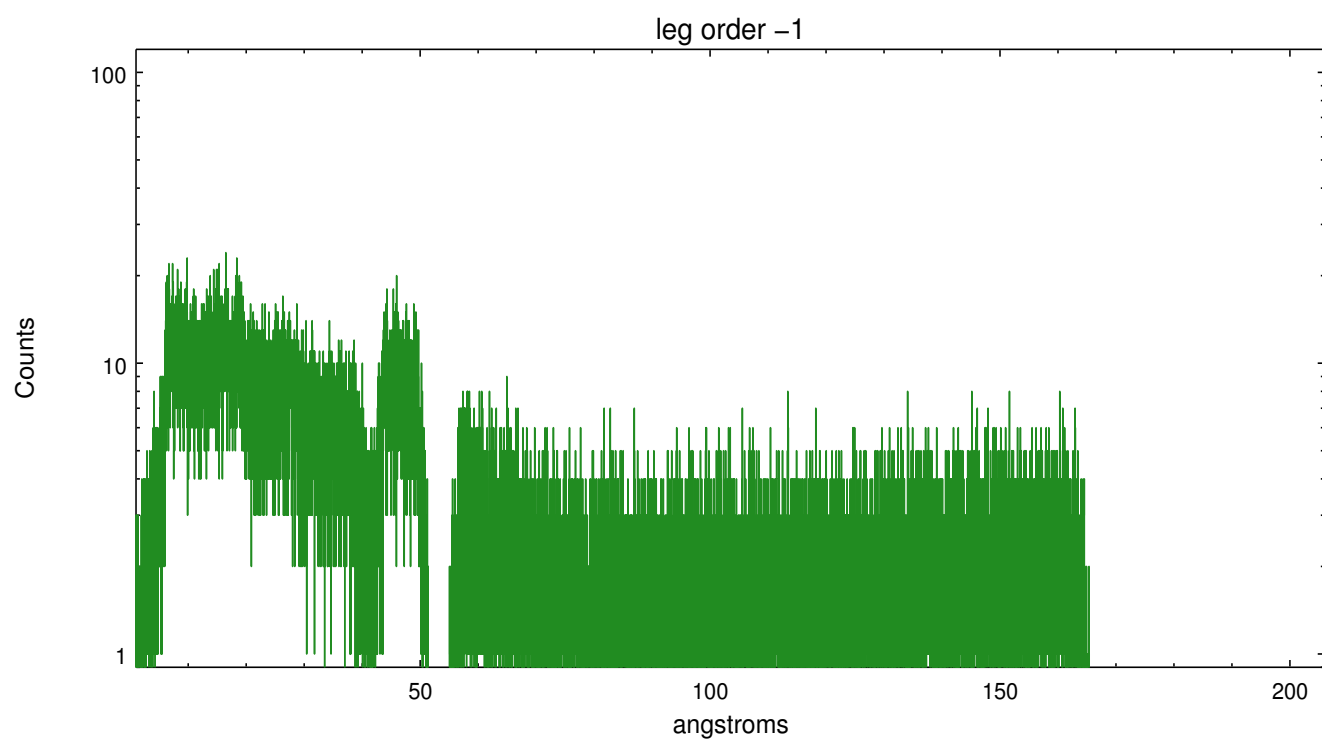


3 Gratings

3.1 LETG Arm



LETG Zero Order



A Summary

A.1 Status

V&V Scientist	David Huenemoerder
V&V Date (YYYY-MM-DD)	2018.07.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.180300593257

A.2 Comments