

V&V Reference Report

L2 ASCDS Version : 10.6.4

Observation 20714 - L2 Version 1
Chandra X-Ray Center

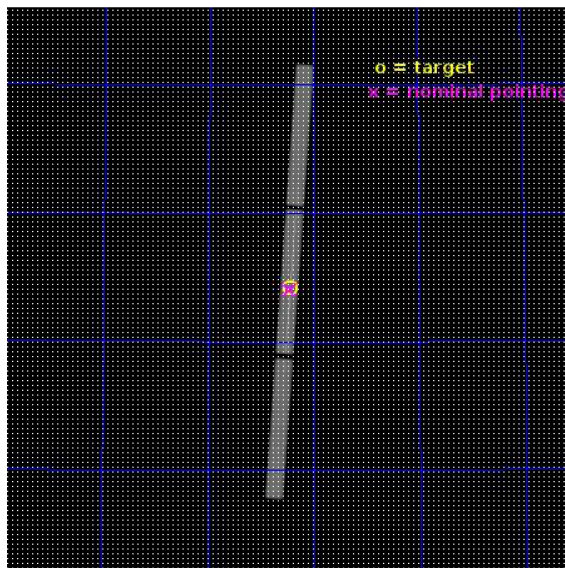
L2 Processing Date : Jul 13 2018

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1 Front

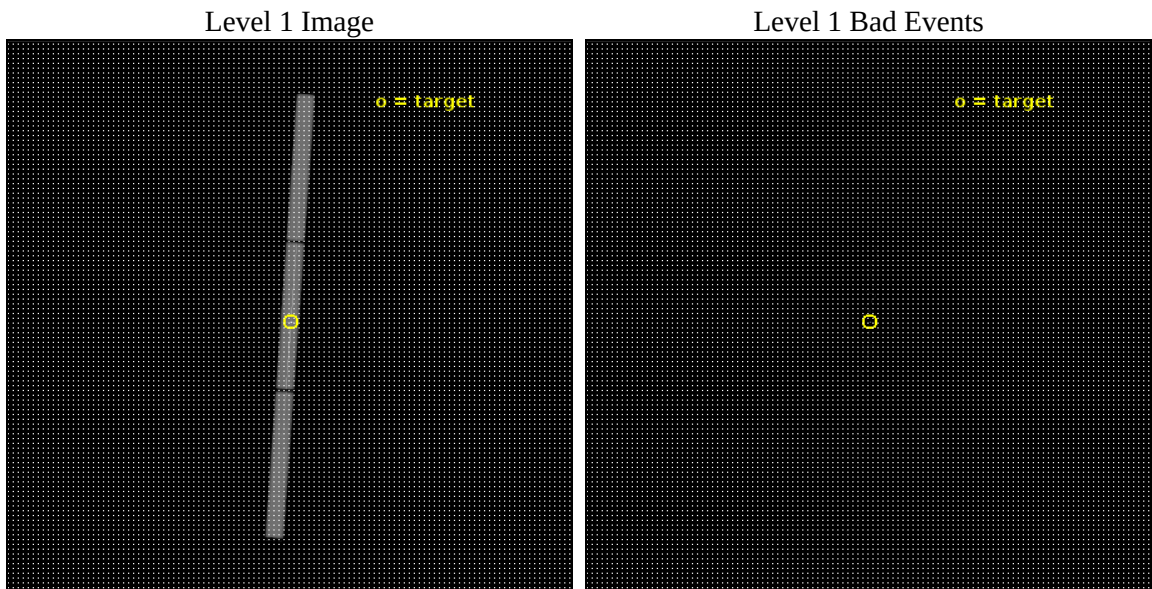
seq_num	790313	Sequence number
obs_id	20714	Observation id
title	AO-19 Calibration Observations of Mkn421	Proposal title
observer	CXC Calibration	Principal investigator
object	MKN421	Source name
ra_targ	166.113333	Observer's specified target RA [deg]
dec_targ	38.208806	Observer's specified target Dec [deg]
ra_nom	166.12047140045	Nominal RA [deg]
dec_nom	38.20289315193	Nominal Dec [deg]
roll_nom	273.8320366098	Nominal Roll [deg]
revision	1	Processing version of data
ontime	10179.531853318	[s]
livetime	10071.164118446	Ontime multiplied by DTCOR
l2events	1022463	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	10179.531853318	[s]
caldbver	4.7.8	 	l1events	1269196	Number of level 1 events
date	2018-07-13T19:57:35	Date and time of file creation	tgmethod	TGDETECT	Method used to create src1a file
revision	1	Processing version of data	zo_pos	(32910.77, 32926.47)	src1a sky pixel position

2.1.3 Events

Level 1 Events

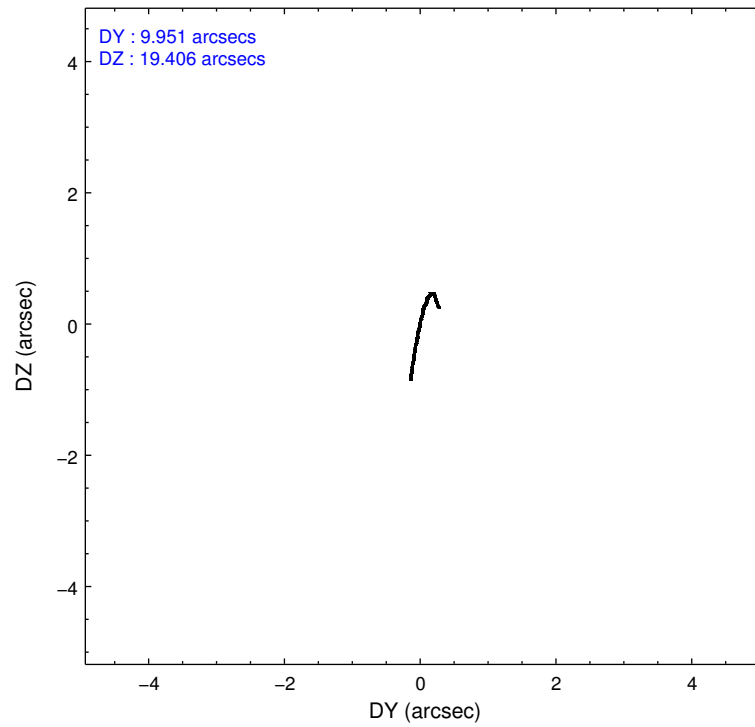
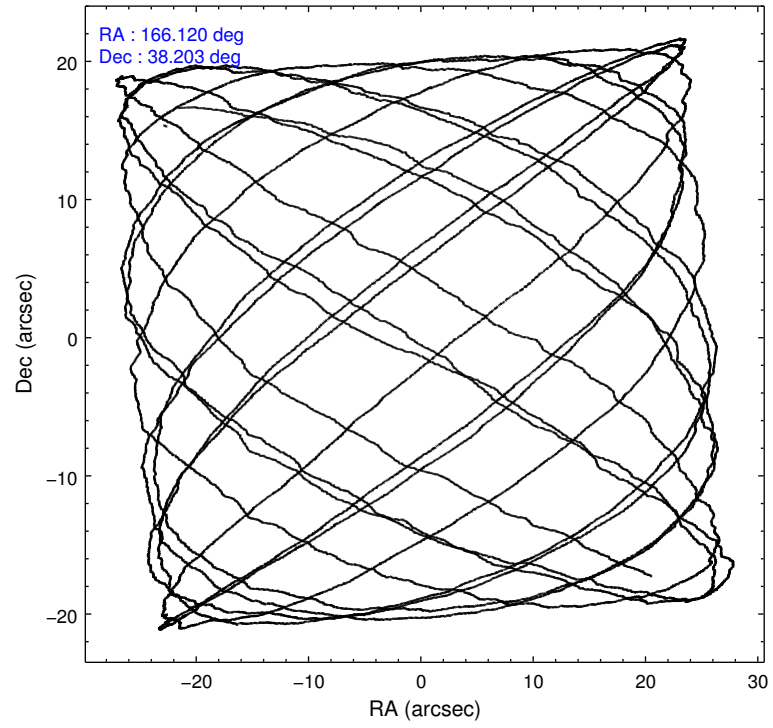
	segment 1	segment 2	segment 3
level 1 events	387275	494718	387203
rejected events	11732	13472	11734
rejected %	3%	2%	3%

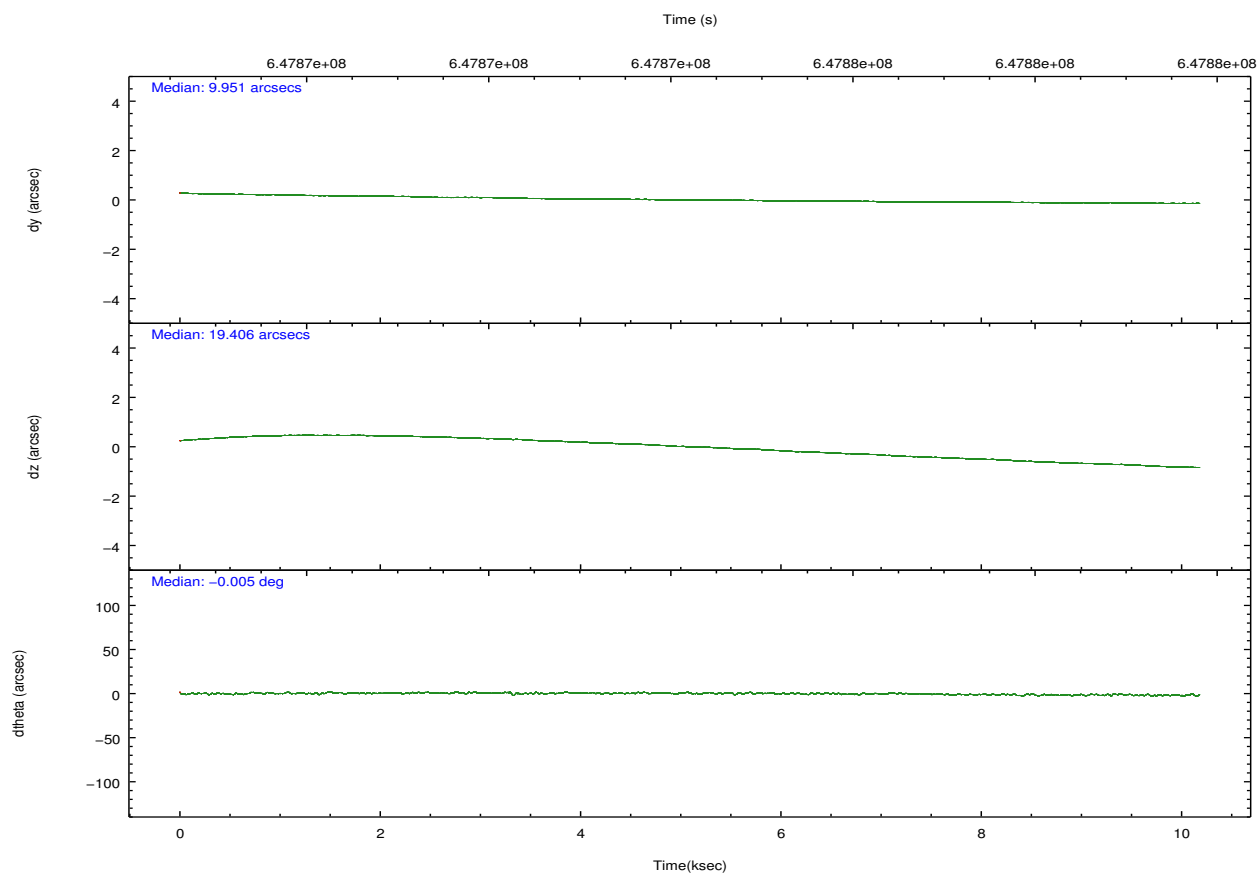
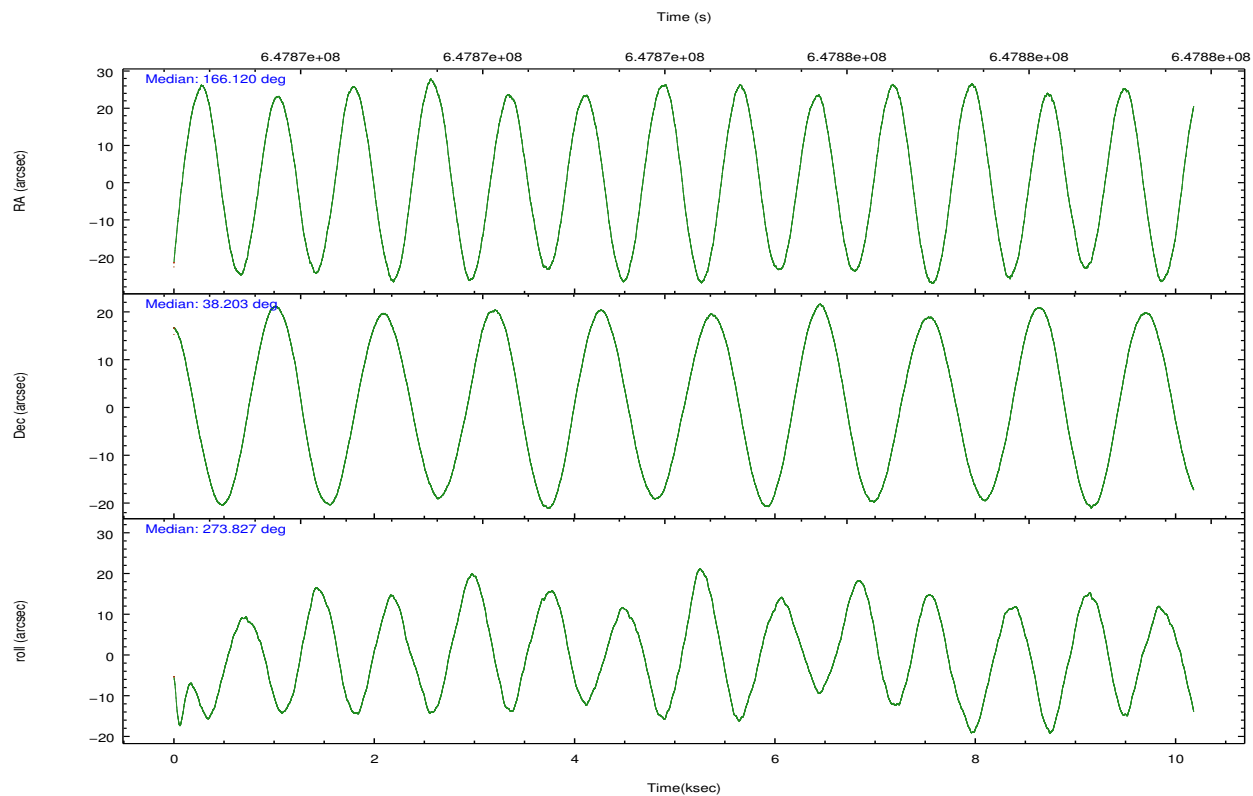
2.2 Compared Parameters

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	166.098540	166.1204714004548
[deg] Pointing Dec	38.226067	38.20289315193025
[deg] Pointing Roll	273.778266	273.8320366098006
[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)	647869317.184000	647868848.8136801
Observation start date	2018-07-13T11:40:48	2018-07-13T11:34:08
[s] Observation end time (MET)	647879317.184000	647879583.12682
Observation end date	2018-07-13T14:27:28	2018-07-13T14:33:03

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

2.3 Aspect



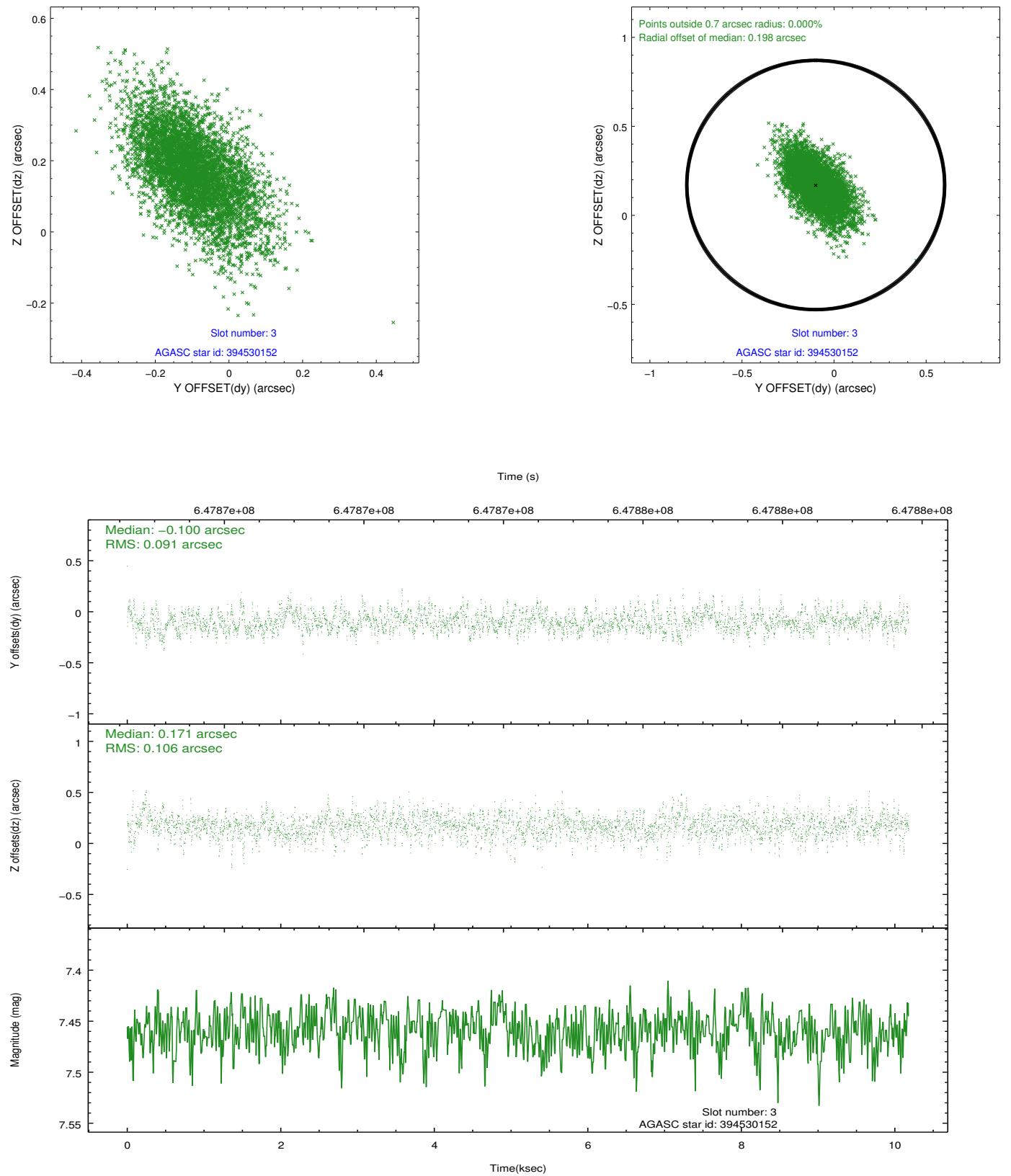


Slot Statistics

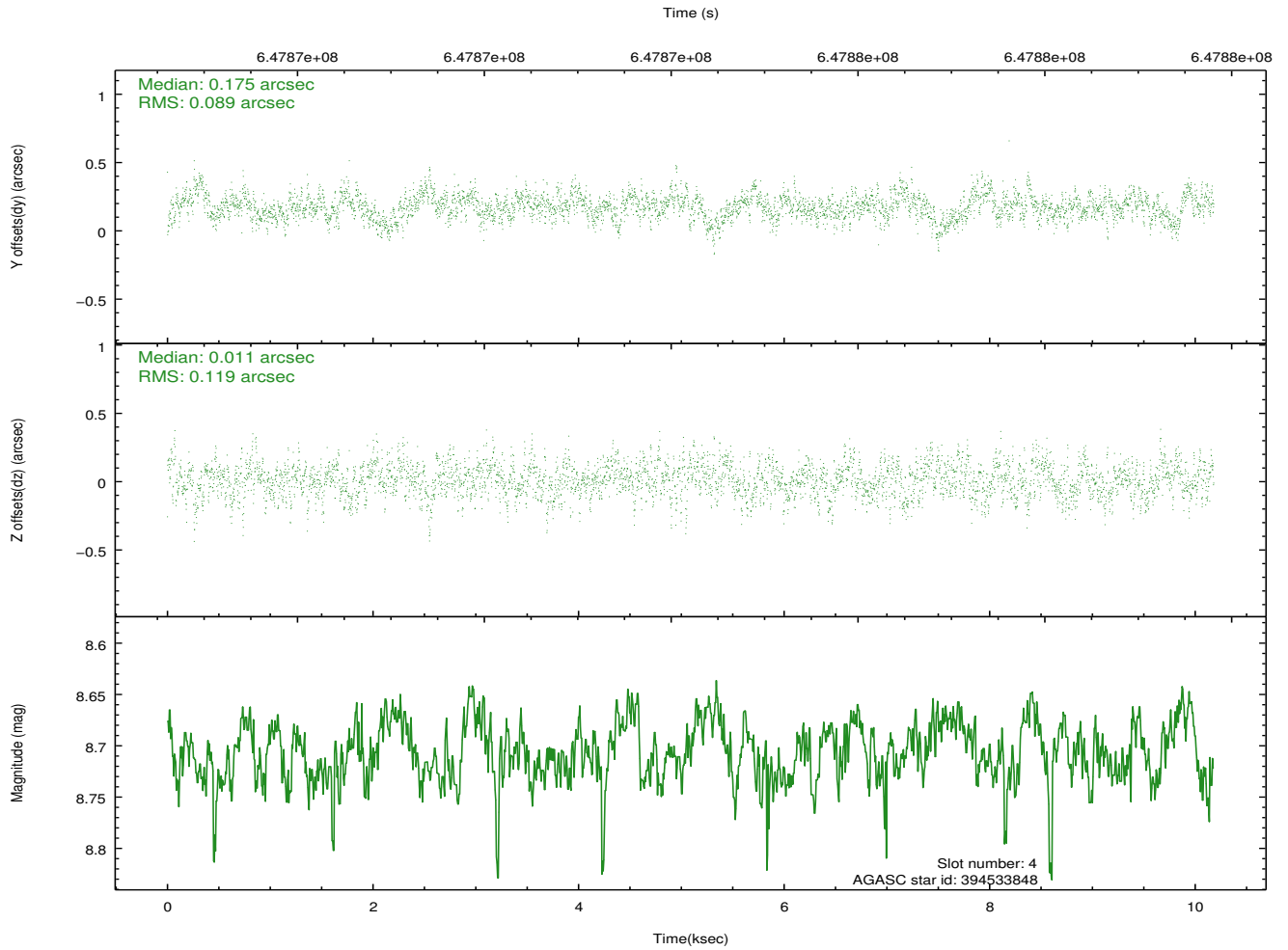
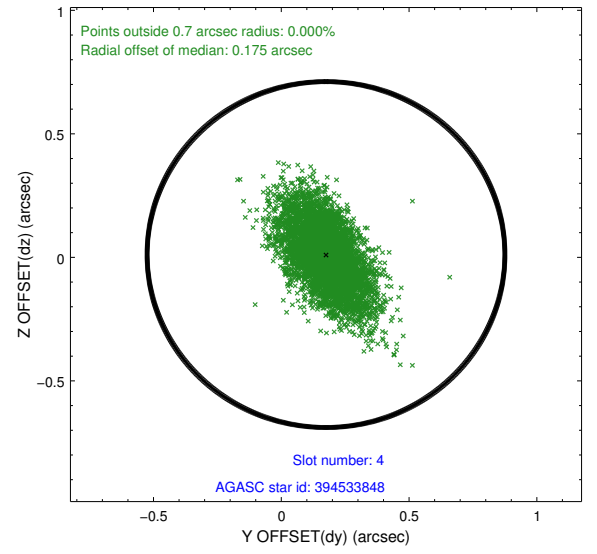
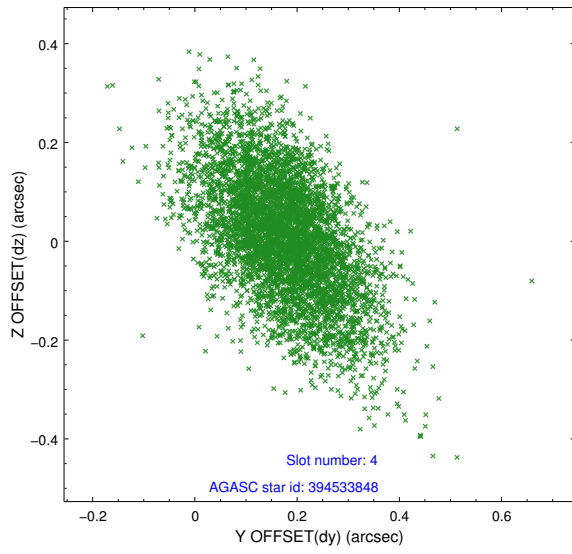
ot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		HRC-S-1	7.06	2484	1.000	0.019	-0.226	0.016	0.037	0.000000	0.000000	-1164.27	-468
1	FID		HRC-S-2	7.03	2484	1.000	0.293	-0.122	0.011	0.018	0.000000	0.000000	1235.22	-461
2	FID		HRC-S-3	7.06	2482	1.000	0.077	0.046	0.015	0.036	0.000000	0.000000	-1166.46	561
3	GUIDE	used	394530152	7.46	4966	1.000	-0.100	0.171	0.145	0.256	166.075805	38.868252	-2310.91	88
4	GUIDE	used	394533848	8.71	4966	1.000	0.175	0.011	0.152	0.267	166.382906	38.276007	-129.27	807
5	GUIDE	used	394543960	9.73	4963	1.000	0.113	0.129	0.220	0.362	165.802757	37.787371	1519.52	-943
6	GUIDE	used	394546712	6.58	4966	1.000	-0.193	0.009	0.137	0.257	166.451462	38.394357	-540.26	1032
7	GUIDE	used	394546720	6.40	4966	1.000	0.005	-0.320	0.161	0.275	166.130115	38.241361	-48.97	91

2.4 Star Slots

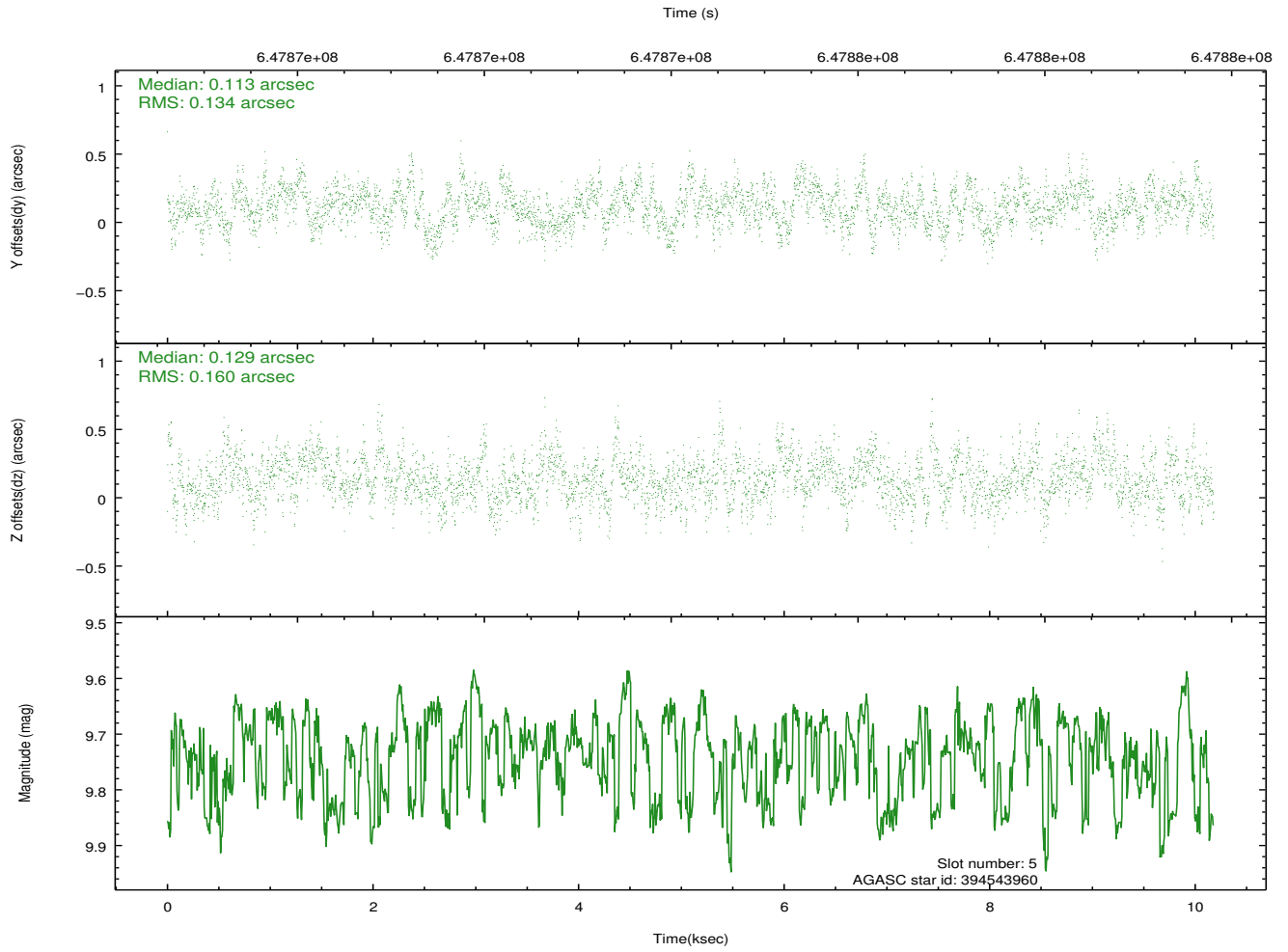
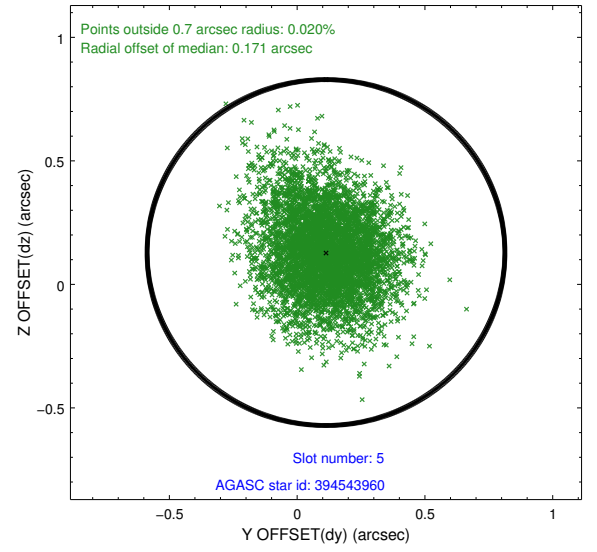
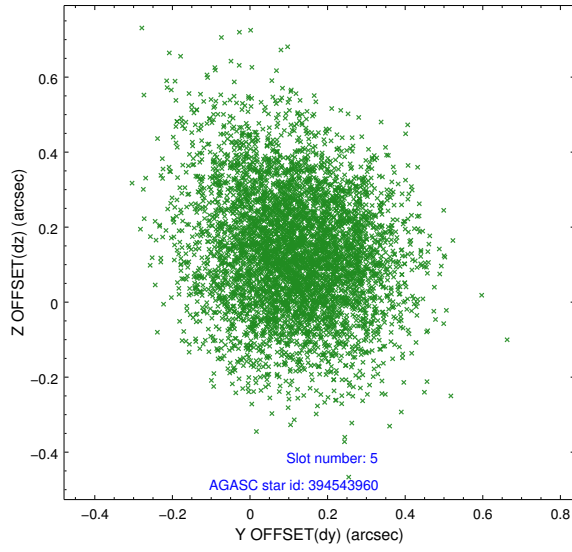
2.4.1 Slot 3



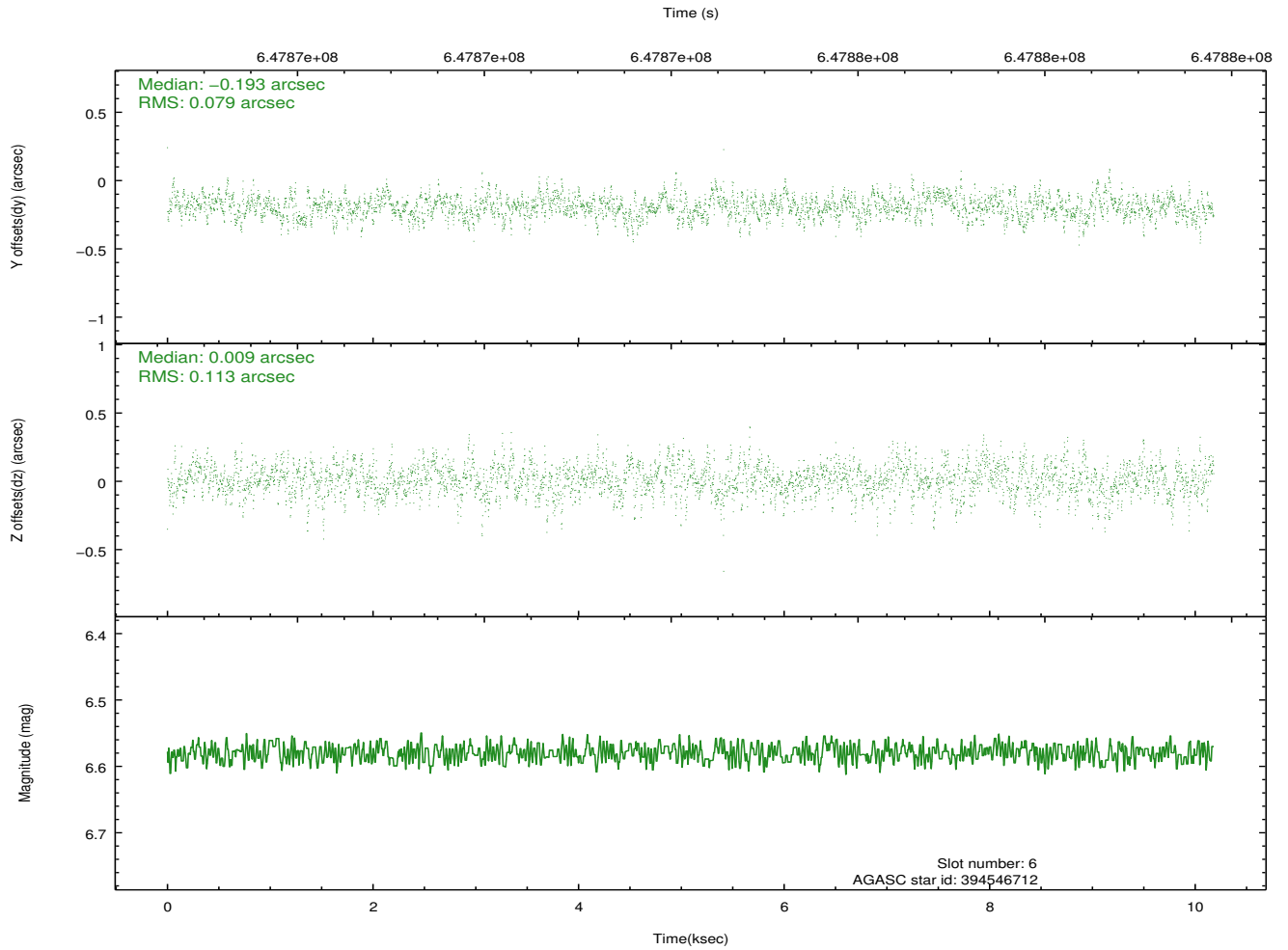
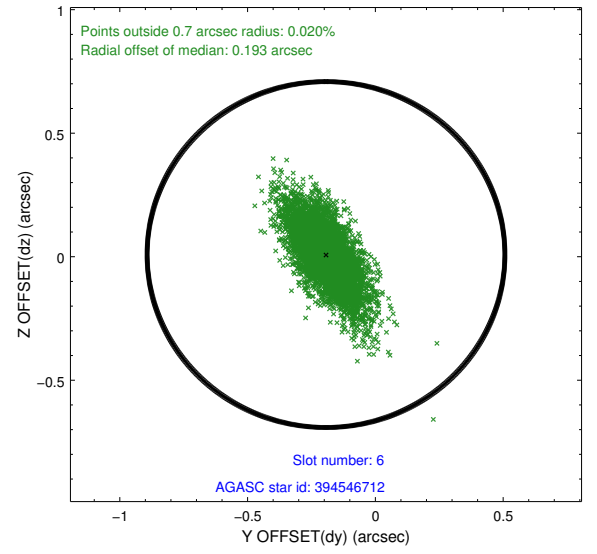
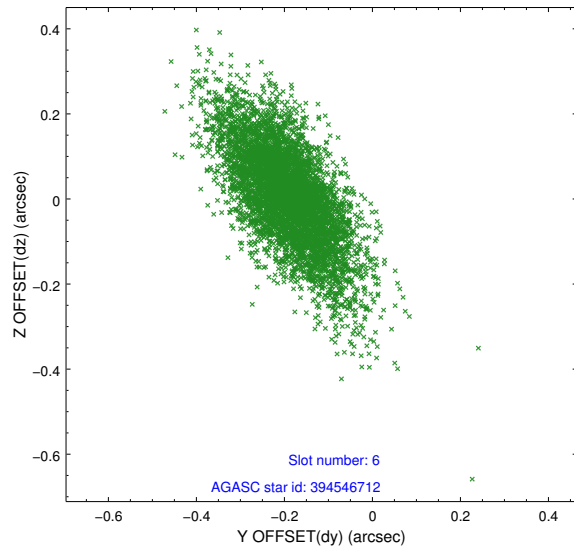
2.4.2 Slot 4



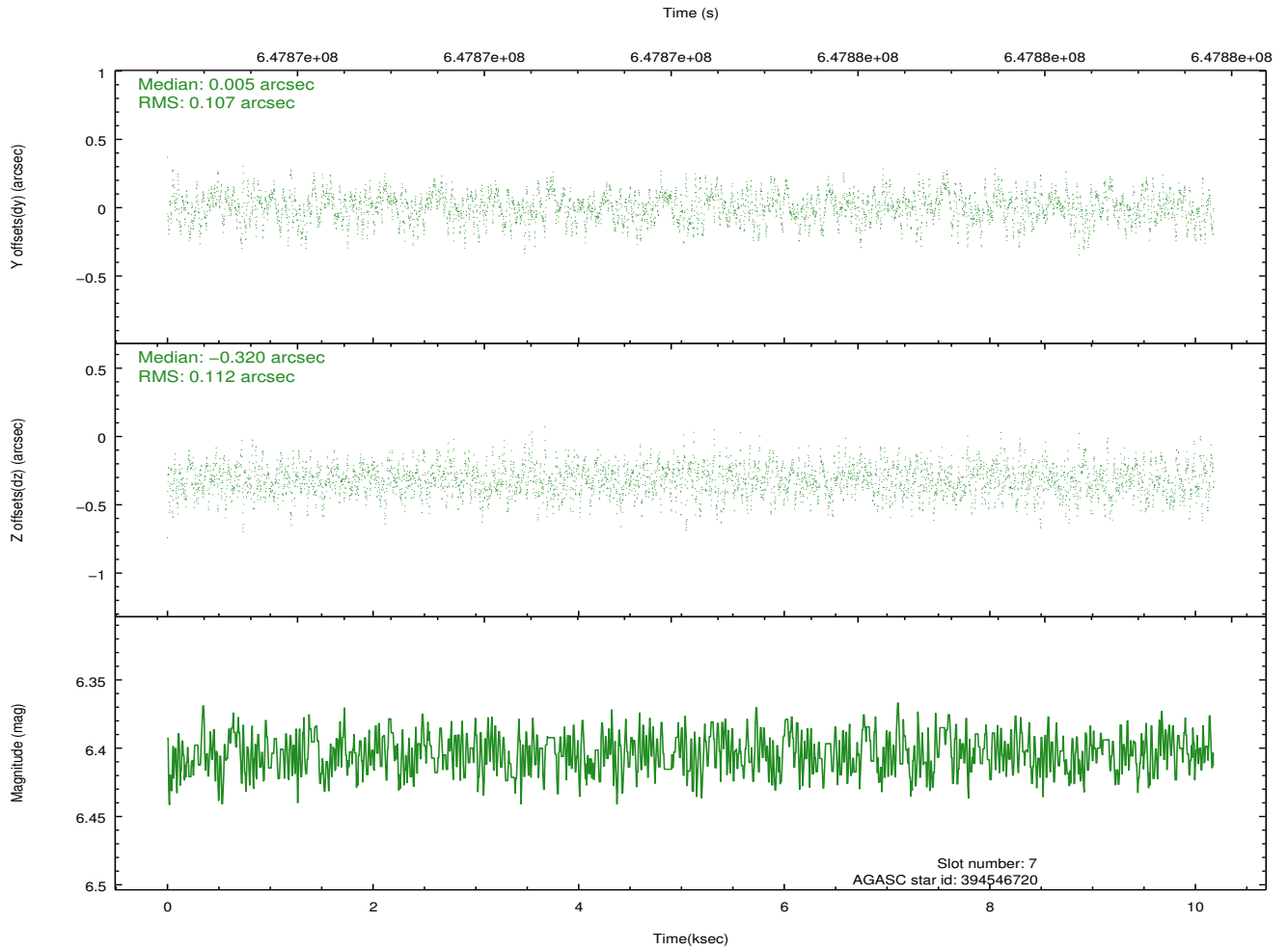
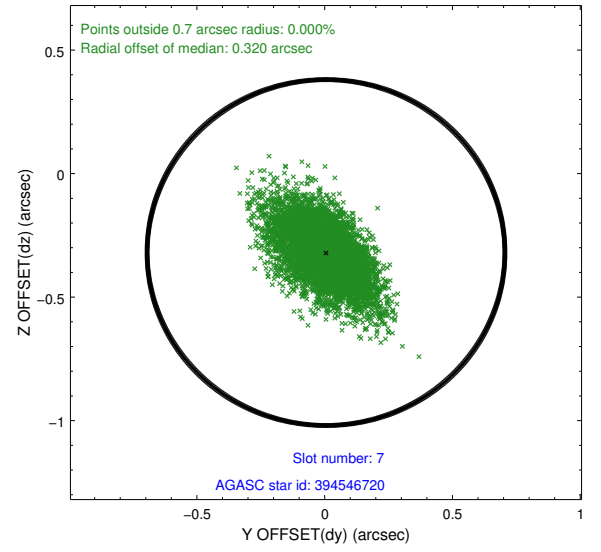
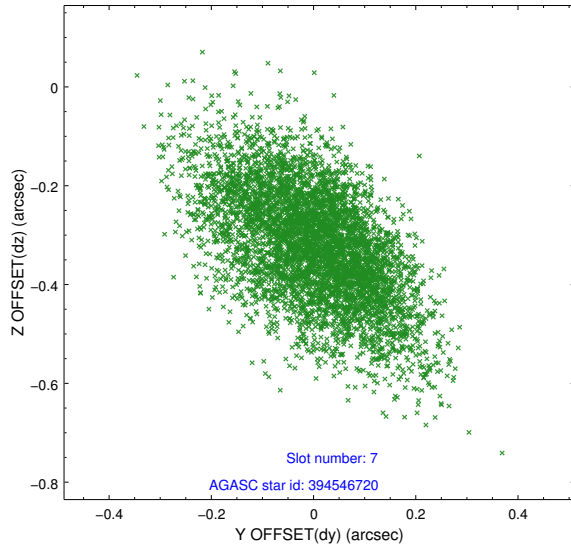
2.4.3 Slot 5



2.4.4 Slot 6

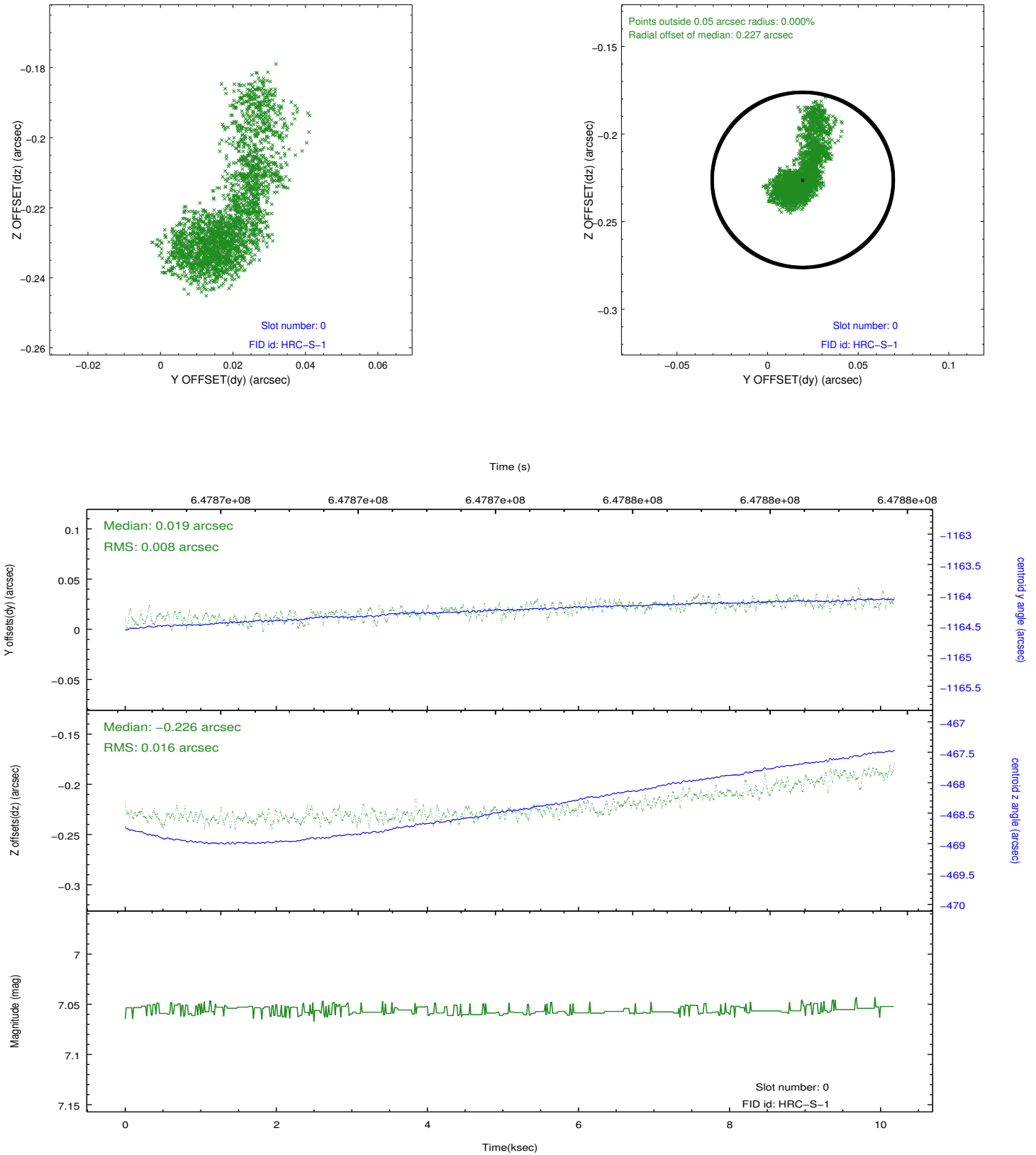


2.4.5 Slot 7

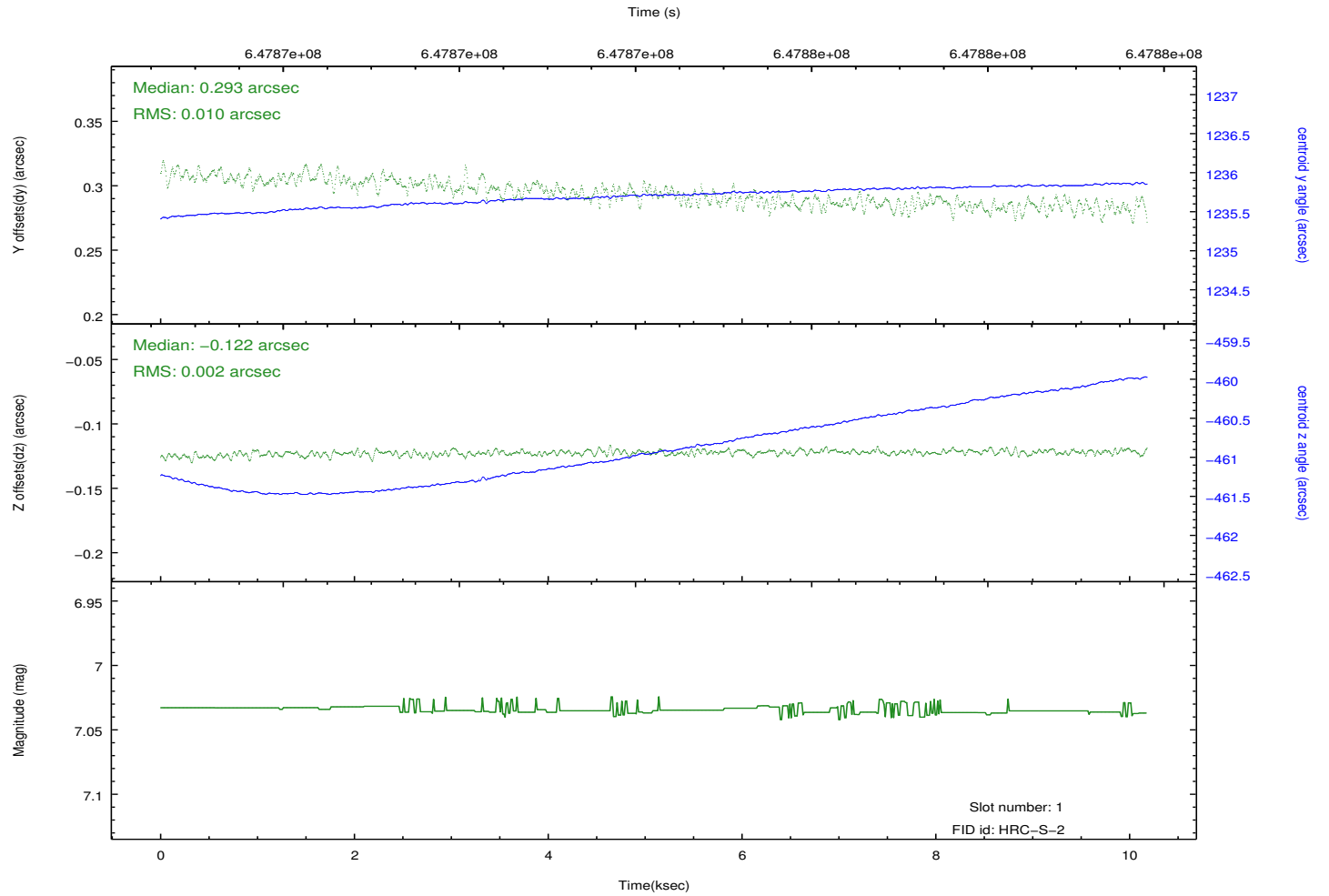
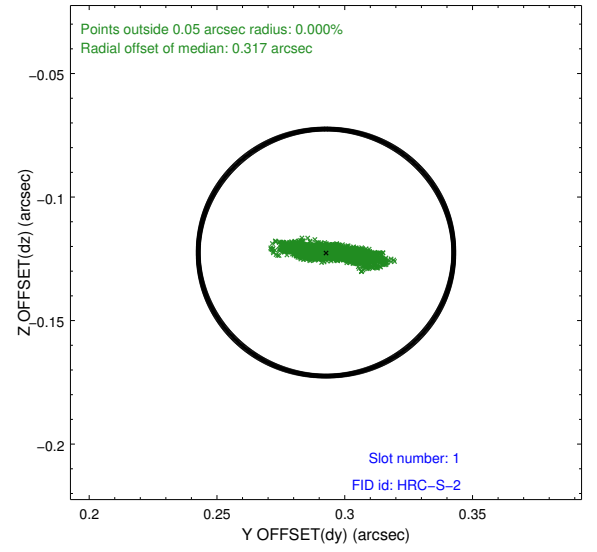
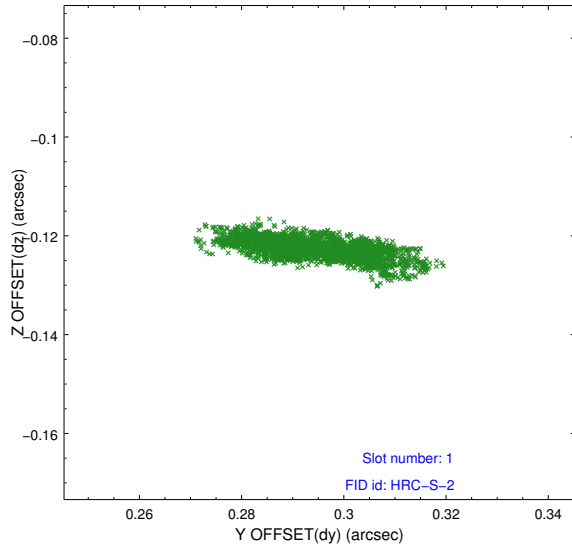


2.5 FID Slots

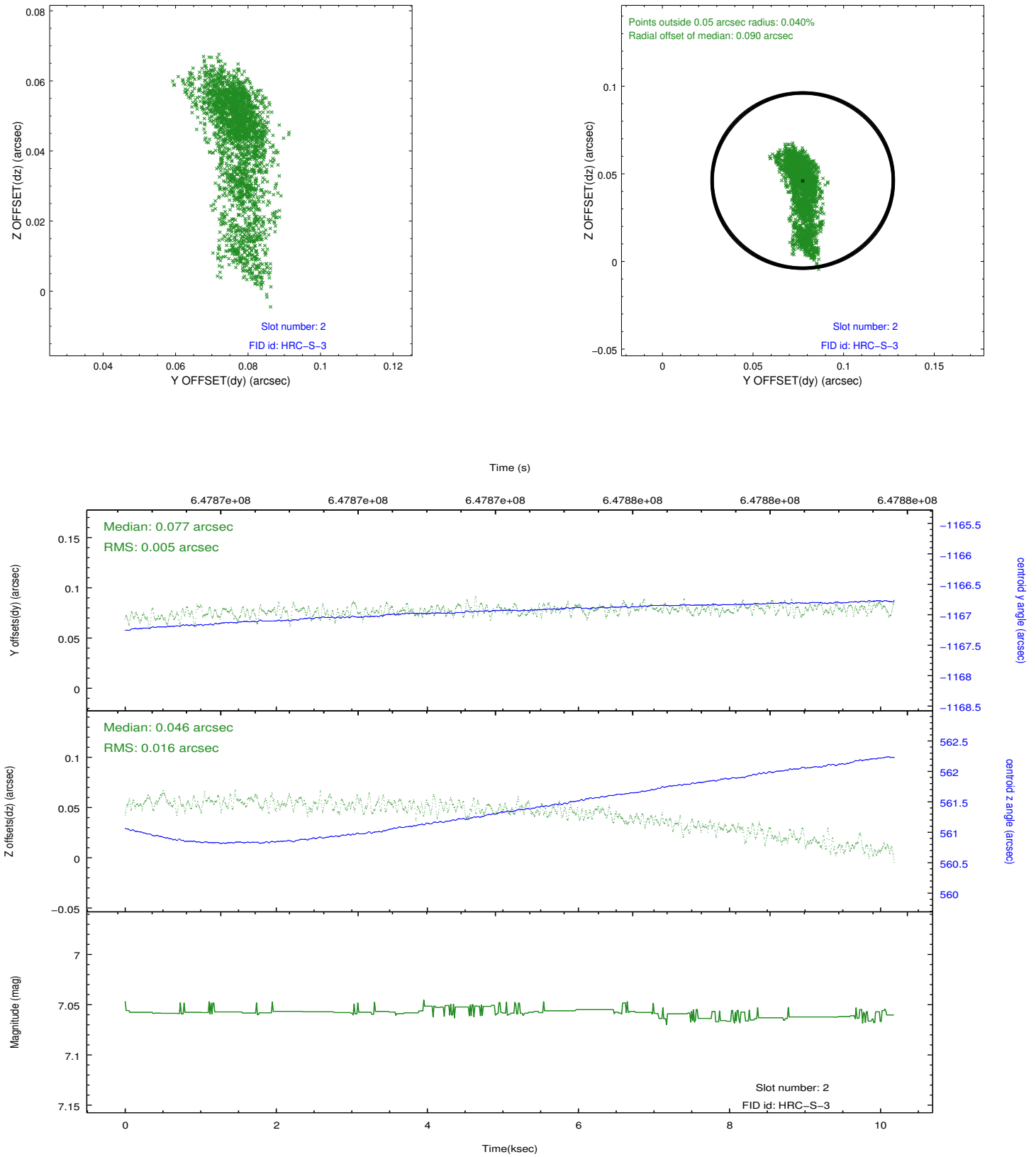
2.5.1 Slot 0



2.5.2 Slot 1

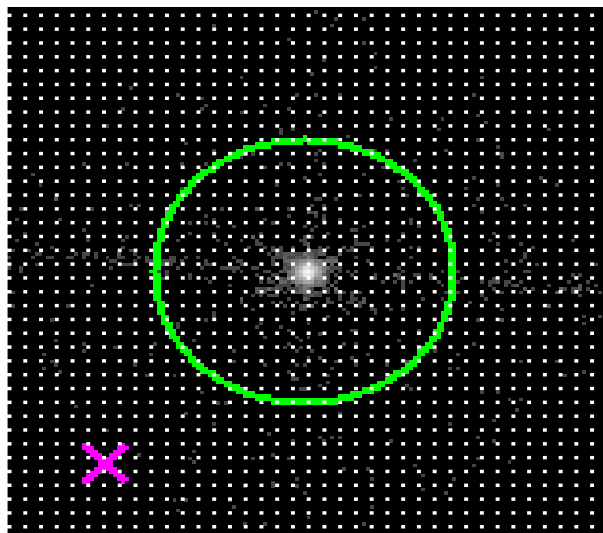


2.5.3 Slot 2

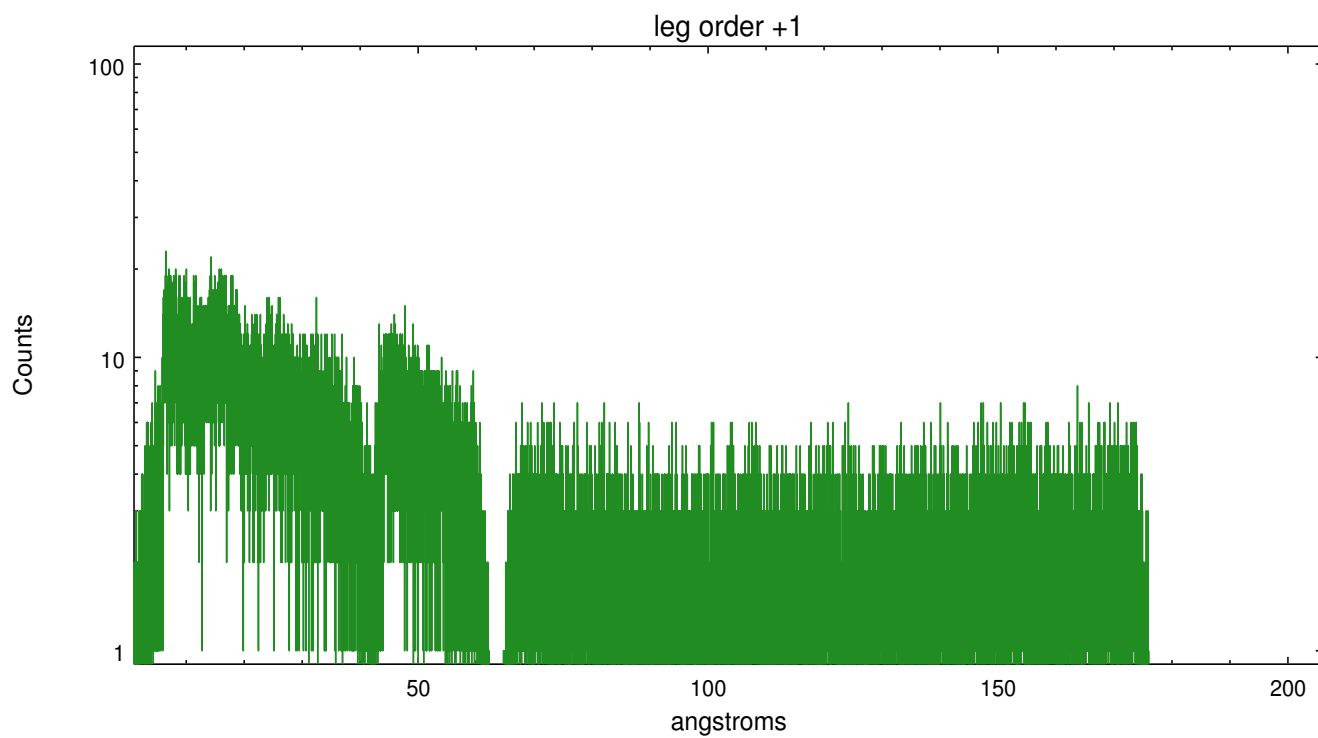
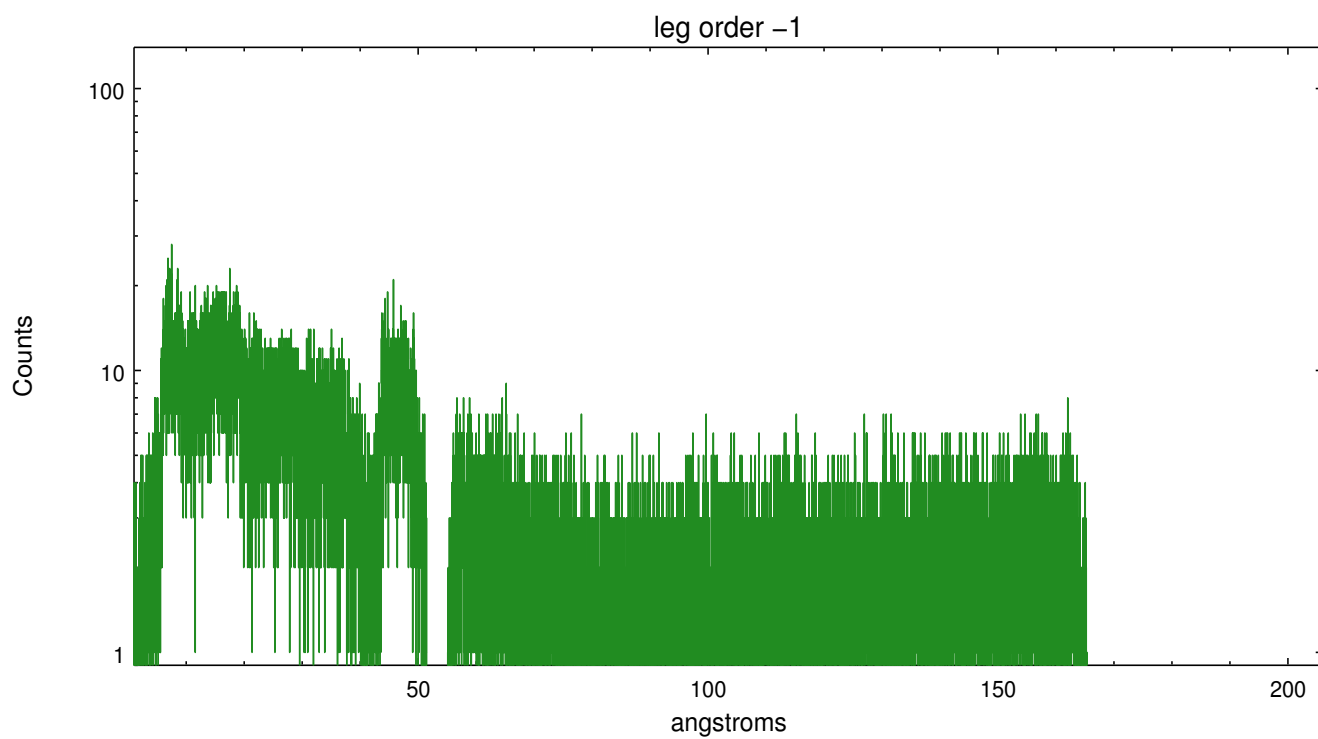


3 Gratings

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	10.179531853318

A.2 Comments