

V&V Reference Report

L2 ASCDS Version : 10.5

Observation 18359 - L2 Version 1
Chandra X-Ray Center

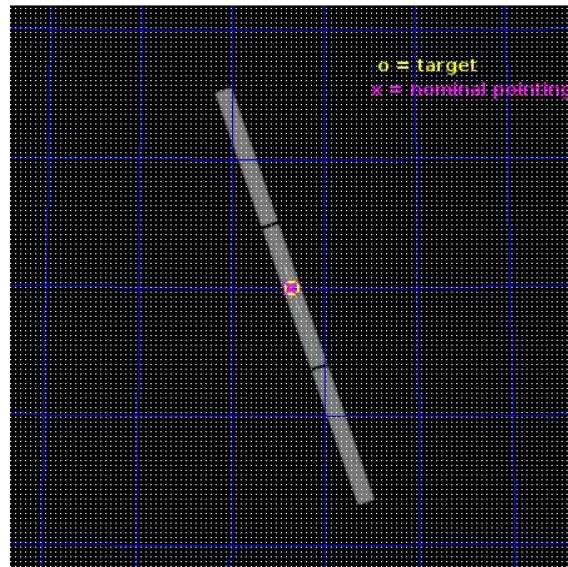
L2 Processing Date : Jul 27 2016

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1 Front

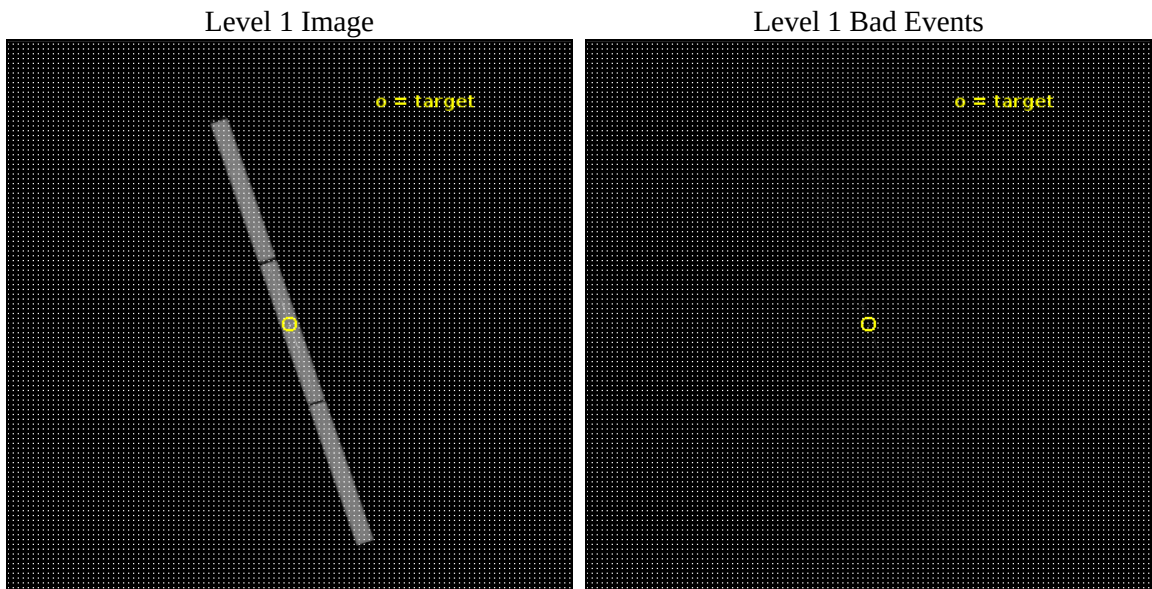
seq_num	291254	Sequence number
obs_id	18359	Observation id
title	AO-17 Internal Cross-Calibration Study	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	Capella	Source name
ra_targ	79.172917	Observer's specified target RA [deg]
dec_targ	45.996389	Observer's specified target Dec [deg]
ra_nom	79.175249210722	Nominal RA [deg]
dec_nom	46.000922599945	Nominal Dec [deg]
roll_nom	71.48322742812	Nominal Roll [deg]
revision	1	Processing version of data
ontime	10185.681835055	[s]
liveltime	10099.090778203	Ontime multiplied by DTCOR
l2events	786845	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	10.5	Processing system revision	ontime	10185.681835055	[s]
caldbver	4.7.2	 	l1events	982824	Number of level 1 events
date	2016-07-27T11:39:16	Date and time of file creation	tgmethod	TGDETECT	Method used to create src1a file
revision	1	Processing version of data	zo_pos	(32817.46, 32633.43)	src1a sky pixel position

2.1.3 Events

Level 1 Events

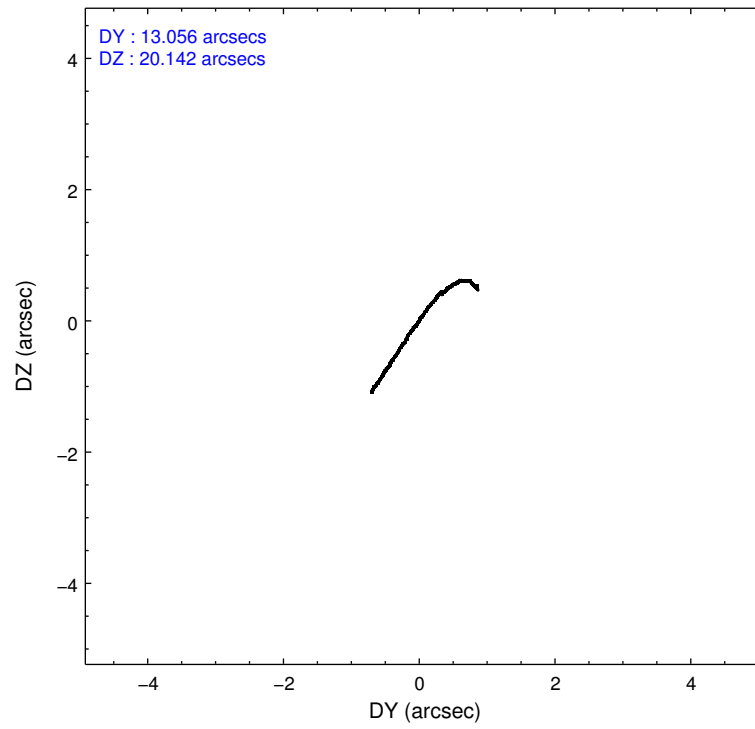
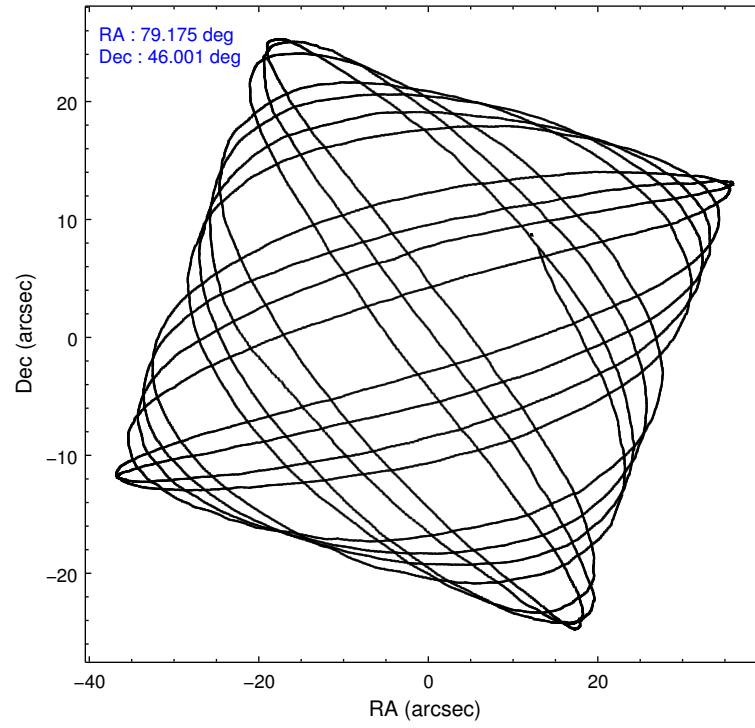
	segment 1	segment 2	segment 3
level 1 events	310206	360314	312304
rejected events	3432	4029	3516
rejected %	1%	1%	1%

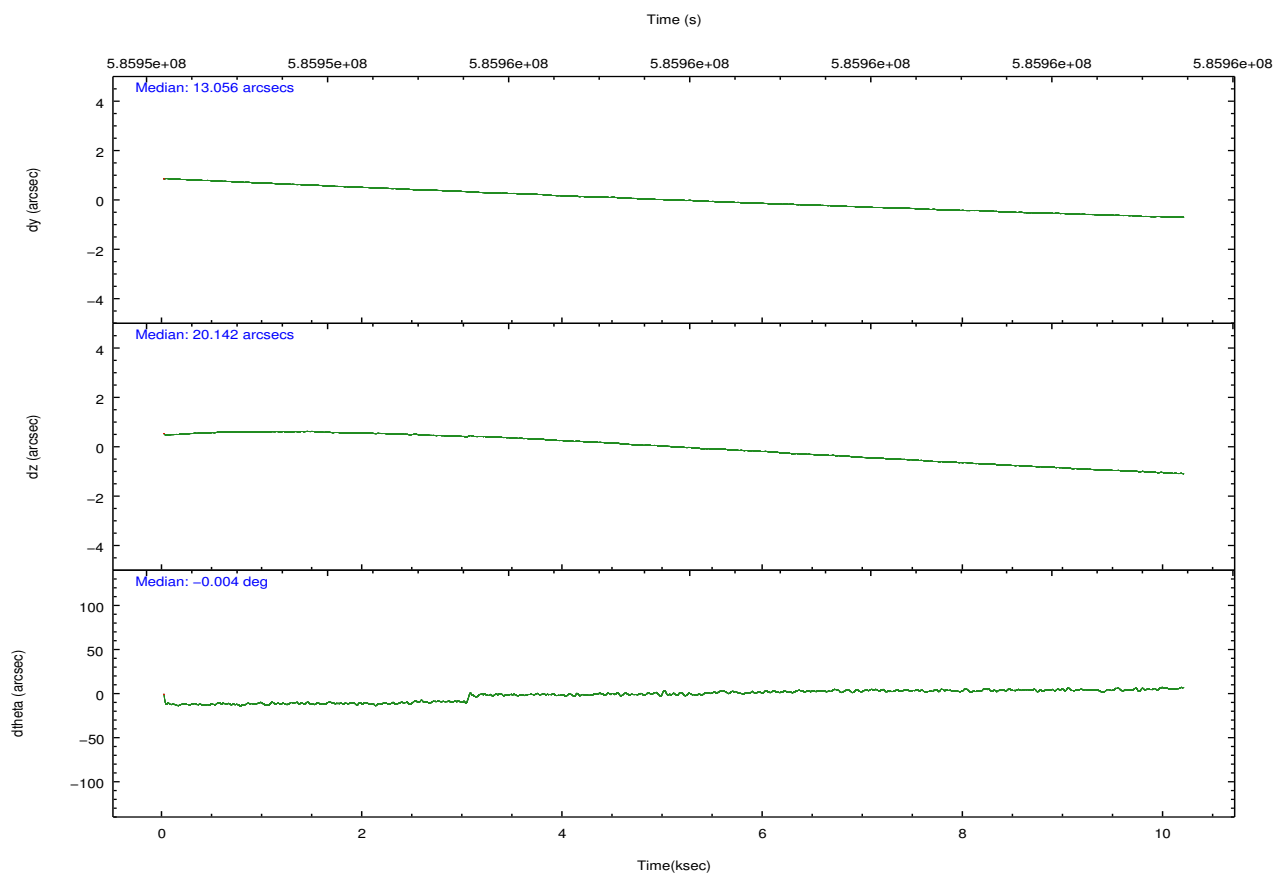
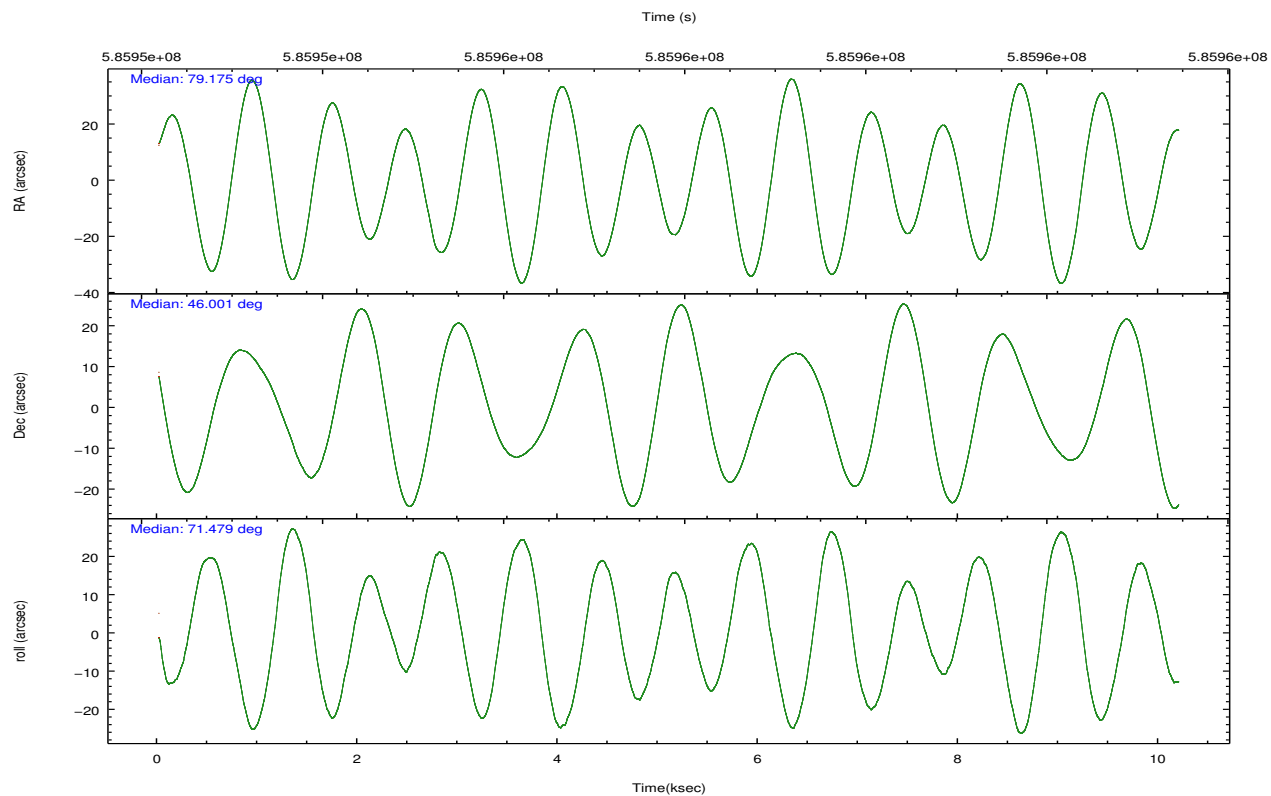
2.2 Compared Parameters

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	79.185420	79.17524921072199
[deg] Pointing Dec	45.973072	46.00092259994516
[deg] Pointing Roll	71.408576	71.4832274281204
[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)	585952916.184000	585952450.7384
Observation start date	2016-07-26T20:40:48	2016-07-26T20:34:10
[s] Observation end time (MET)	585962916.184000	585963178.38902
Observation end date	2016-07-26T23:27:28	2016-07-26T23:32:58

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

2.3 Aspect



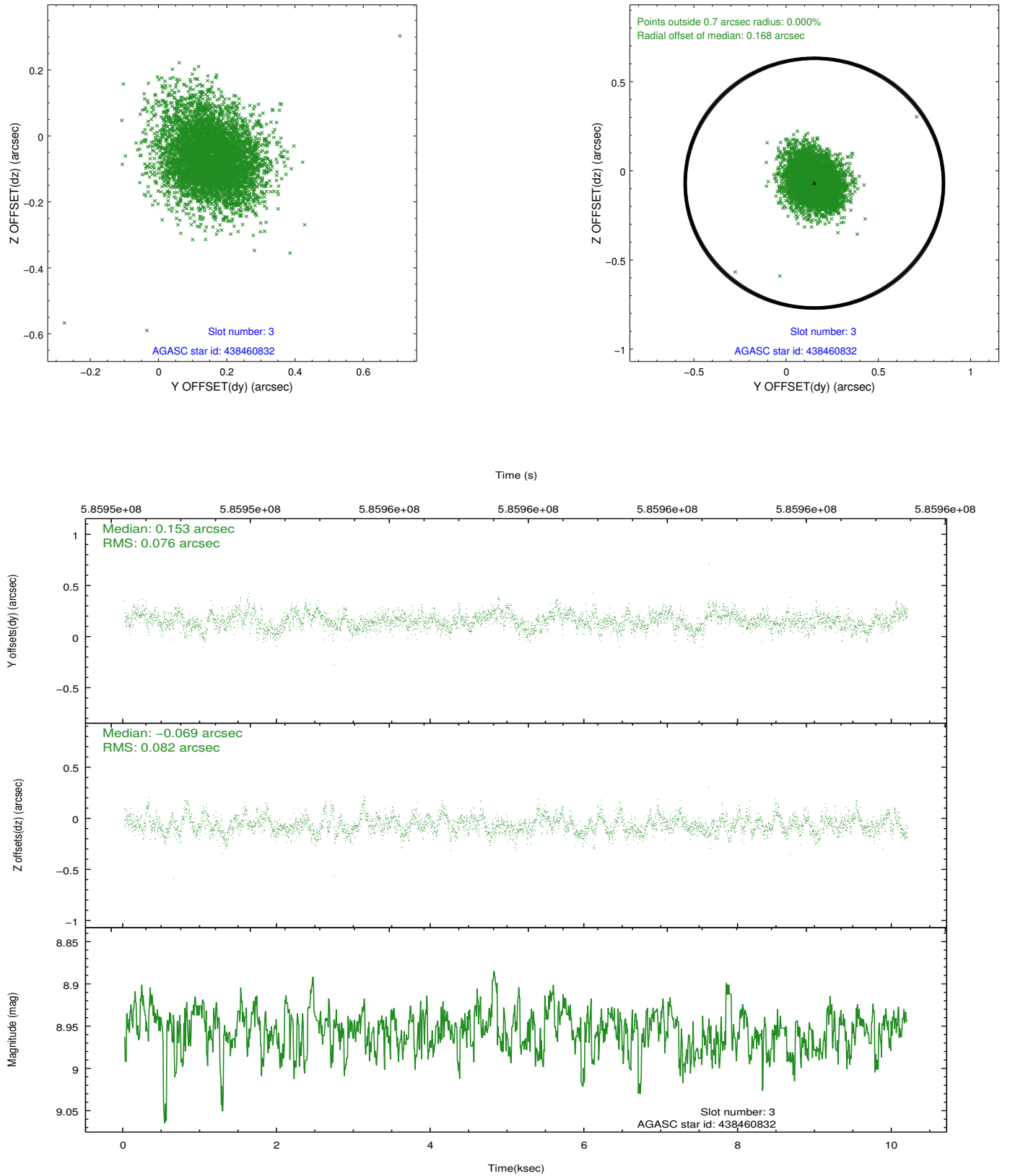


Slot Statistics

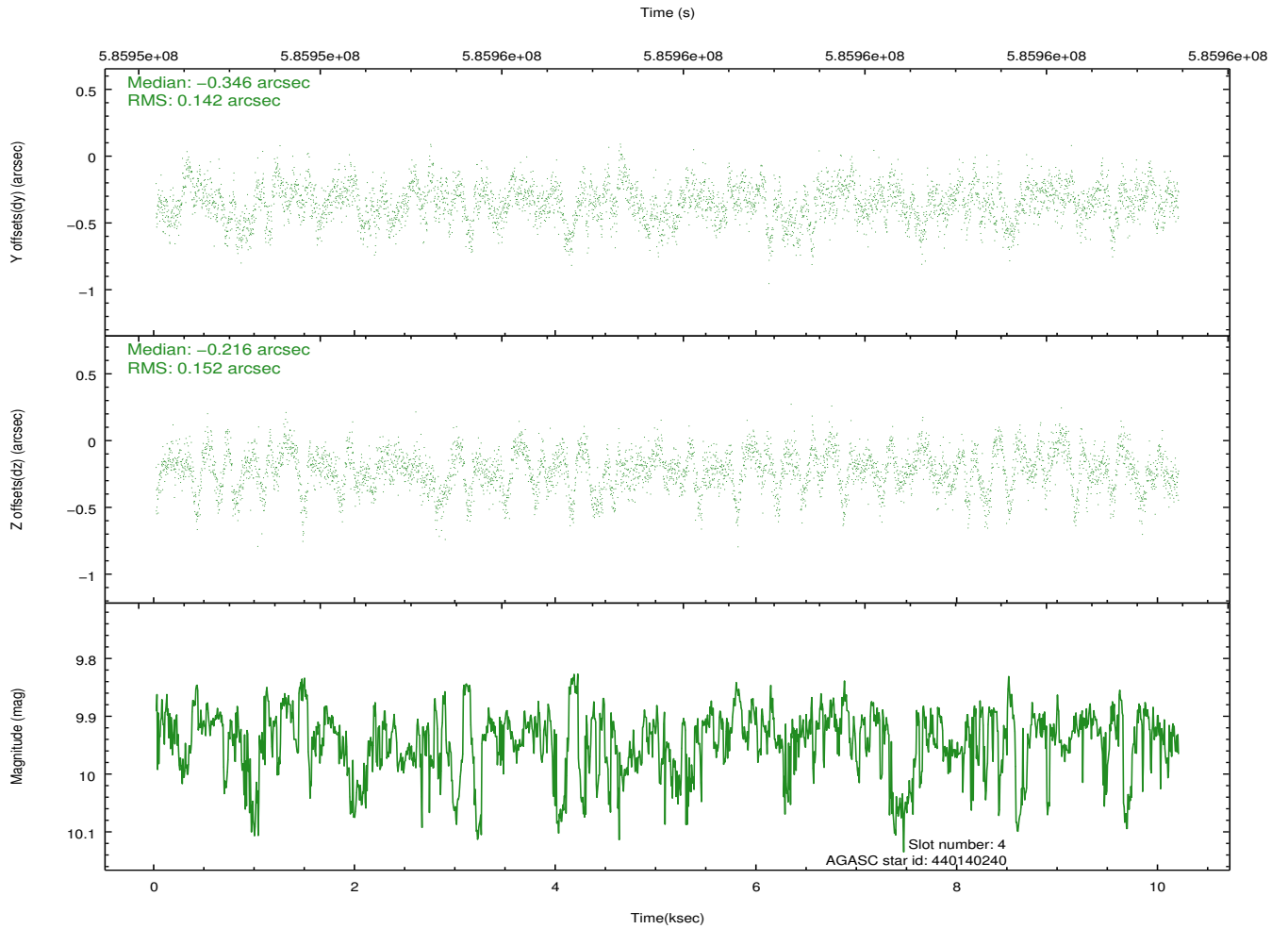
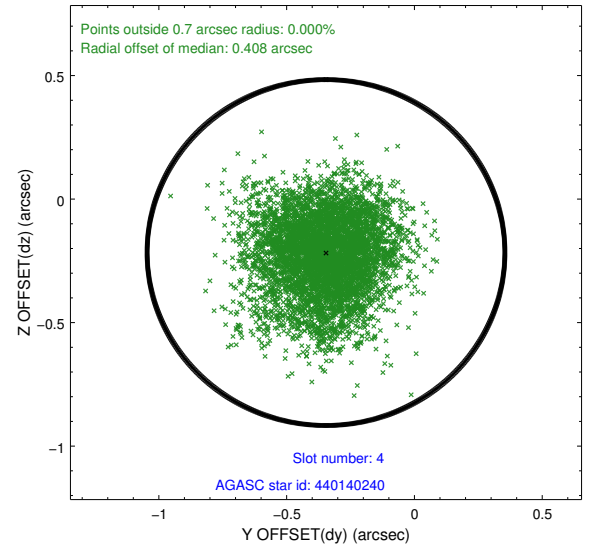
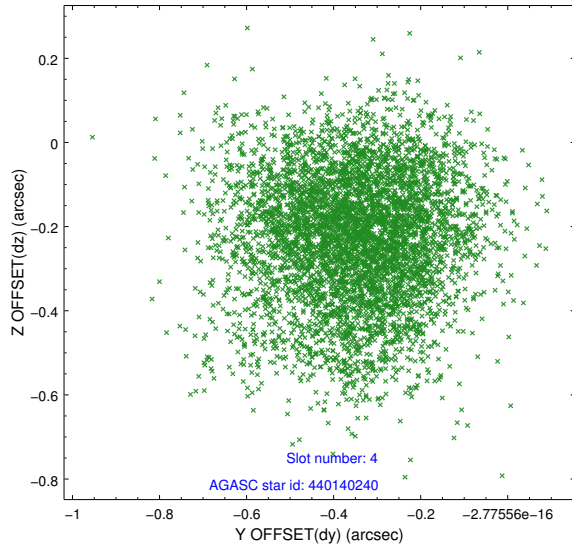
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		HRC-S-1	7.01	2485	-0.030	-0.259	0.026	0.041	0.000000	0.000000	-1167.52	-469.18
1	FID		HRC-S-3	7.00	2485	0.047	-0.006	0.031	0.054	0.000000	0.000000	-1170.64	560.41
2	FID		HRC-S-4	6.97	2485	0.371	-0.031	0.012	0.018	0.000000	0.000000	1230.66	563.40
3	GUIDE	used	438460832	8.95	4963	0.153	-0.069	0.117	0.196	78.414614	45.554782	-2037.73	1364.55
4	GUIDE	used	440140240	9.94	4953	-0.346	-0.216	0.223	0.359	78.889349	46.726437	2338.58	1558.30
5	GUIDE	used	440149480	9.13	4966	0.459	0.557	0.146	0.235	79.794341	45.220426	-2068.80	-2324.40
6	GUIDE	used	440150048	7.10	4970	-0.260	-0.173	0.105	0.170	79.112838	46.416060	1453.95	679.11
7	GUIDE	used	438461584	9.21	4965	0.000	-0.095	0.154	0.264	78.061532	45.583834	-2211.65	2243.87

2.4 Star Slots

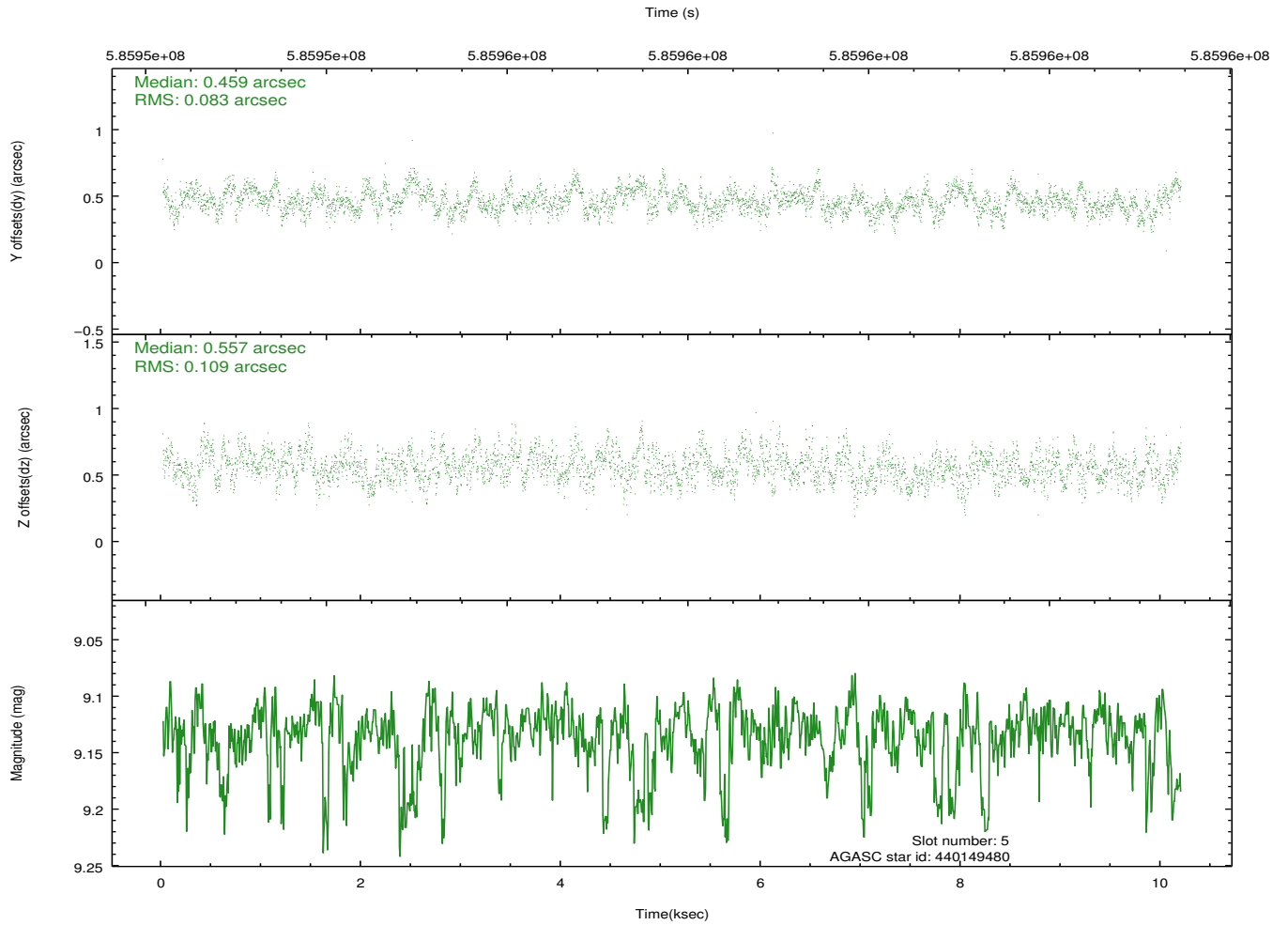
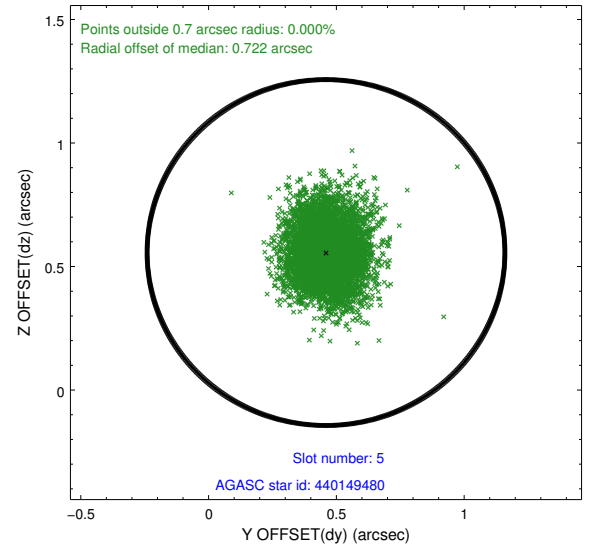
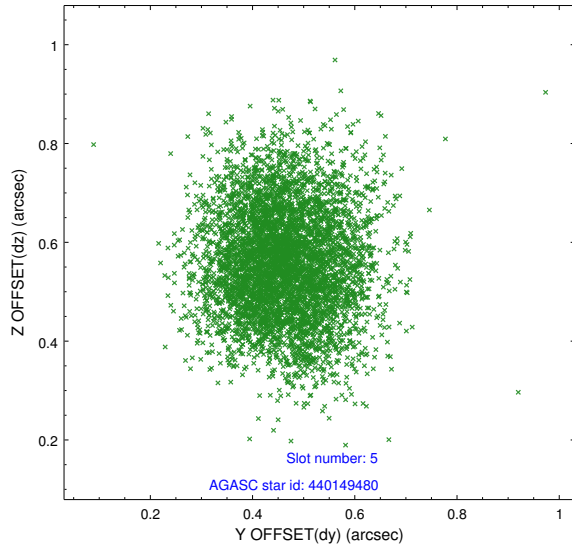
2.4.1 Slot 3



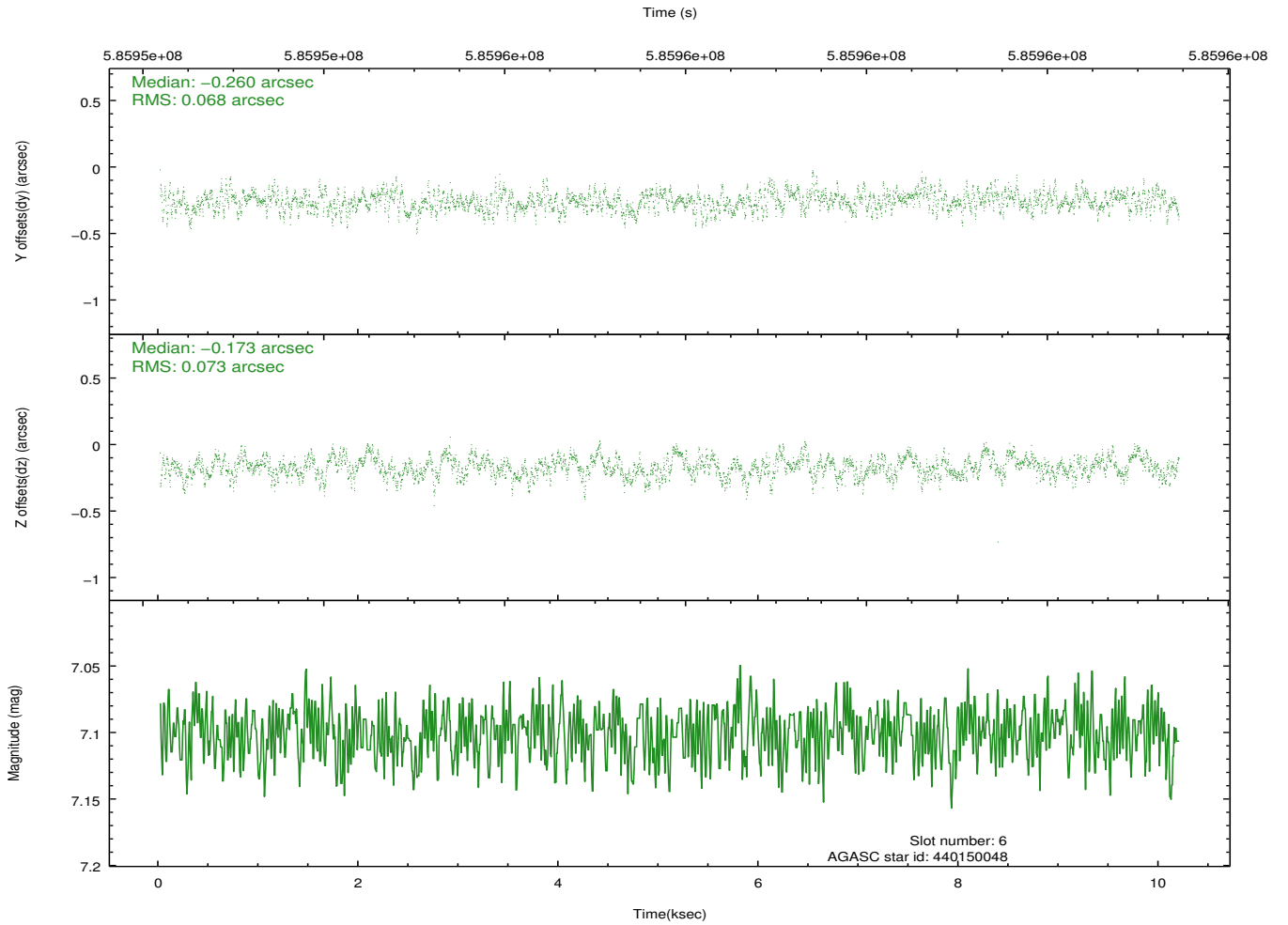
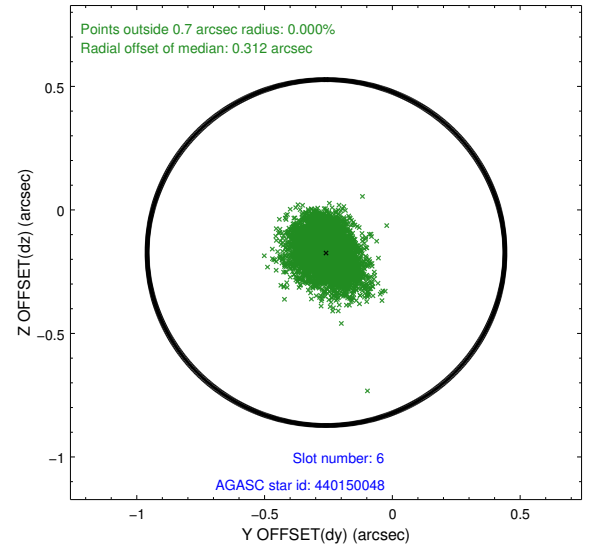
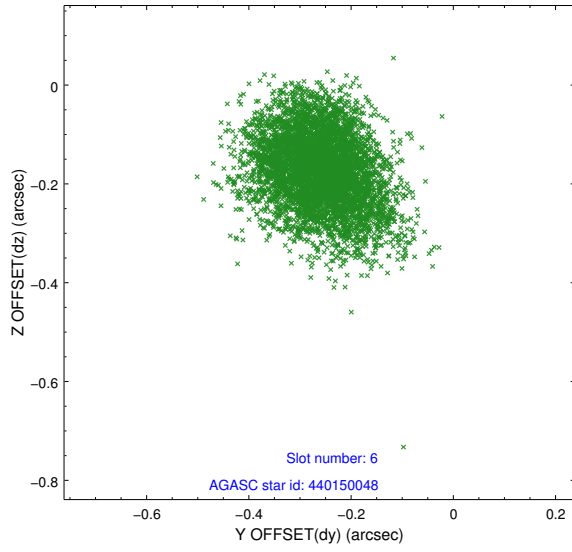
2.4.2 Slot 4



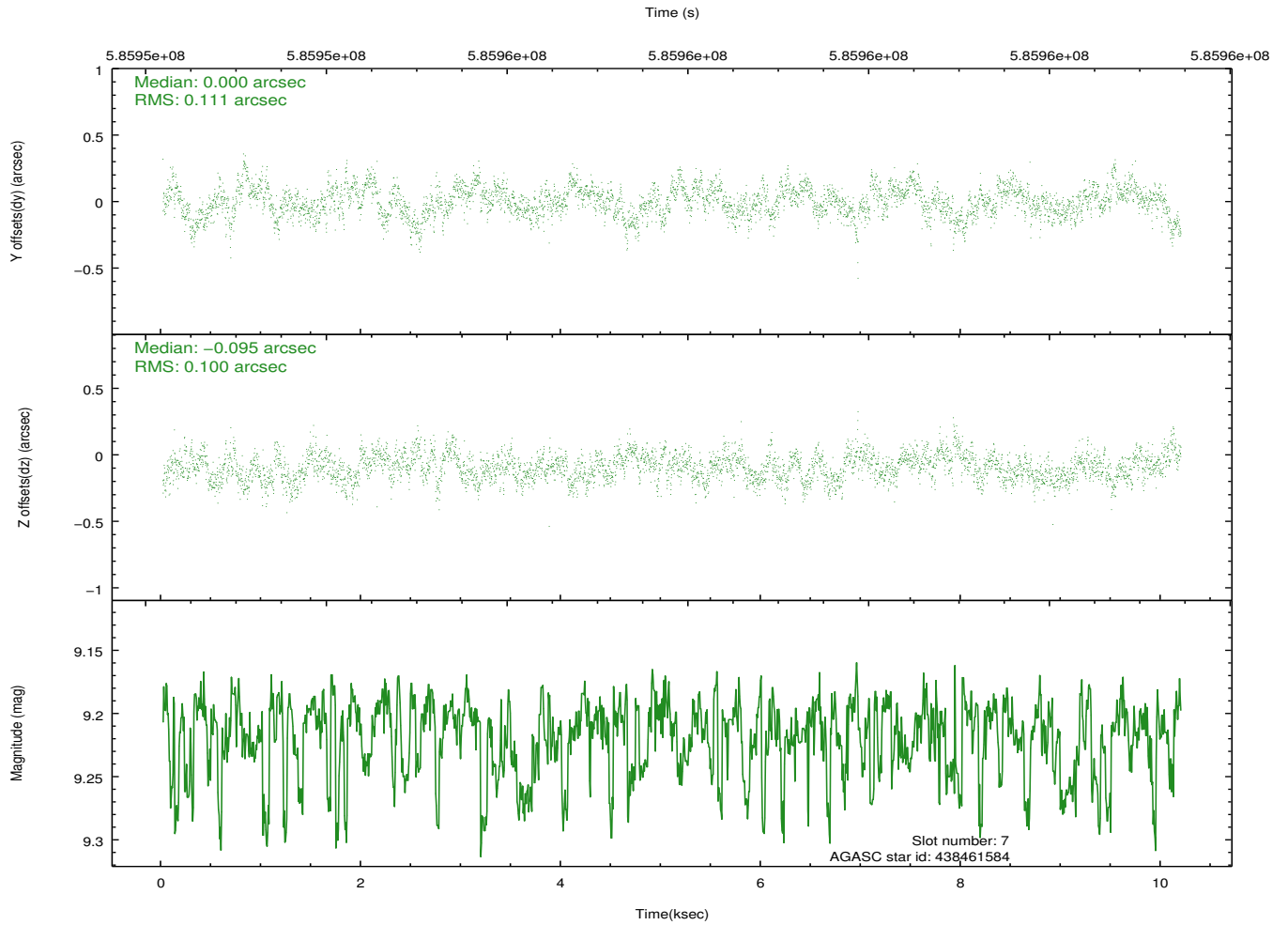
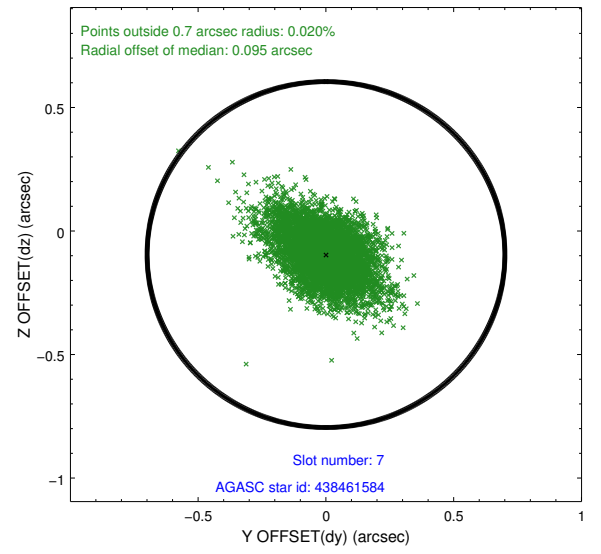
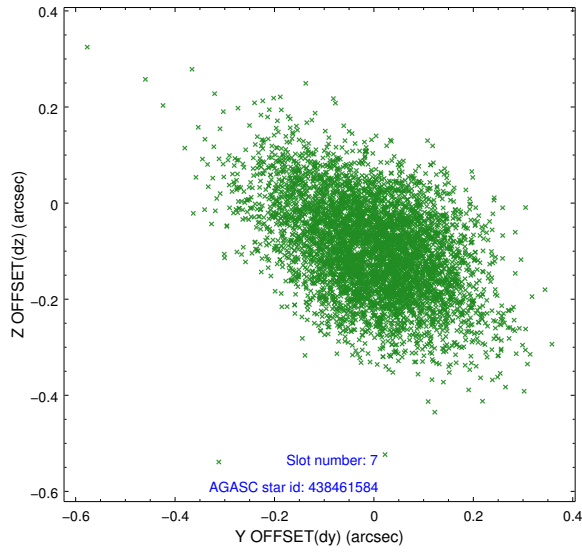
2.4.3 Slot 5



2.4.4 Slot 6

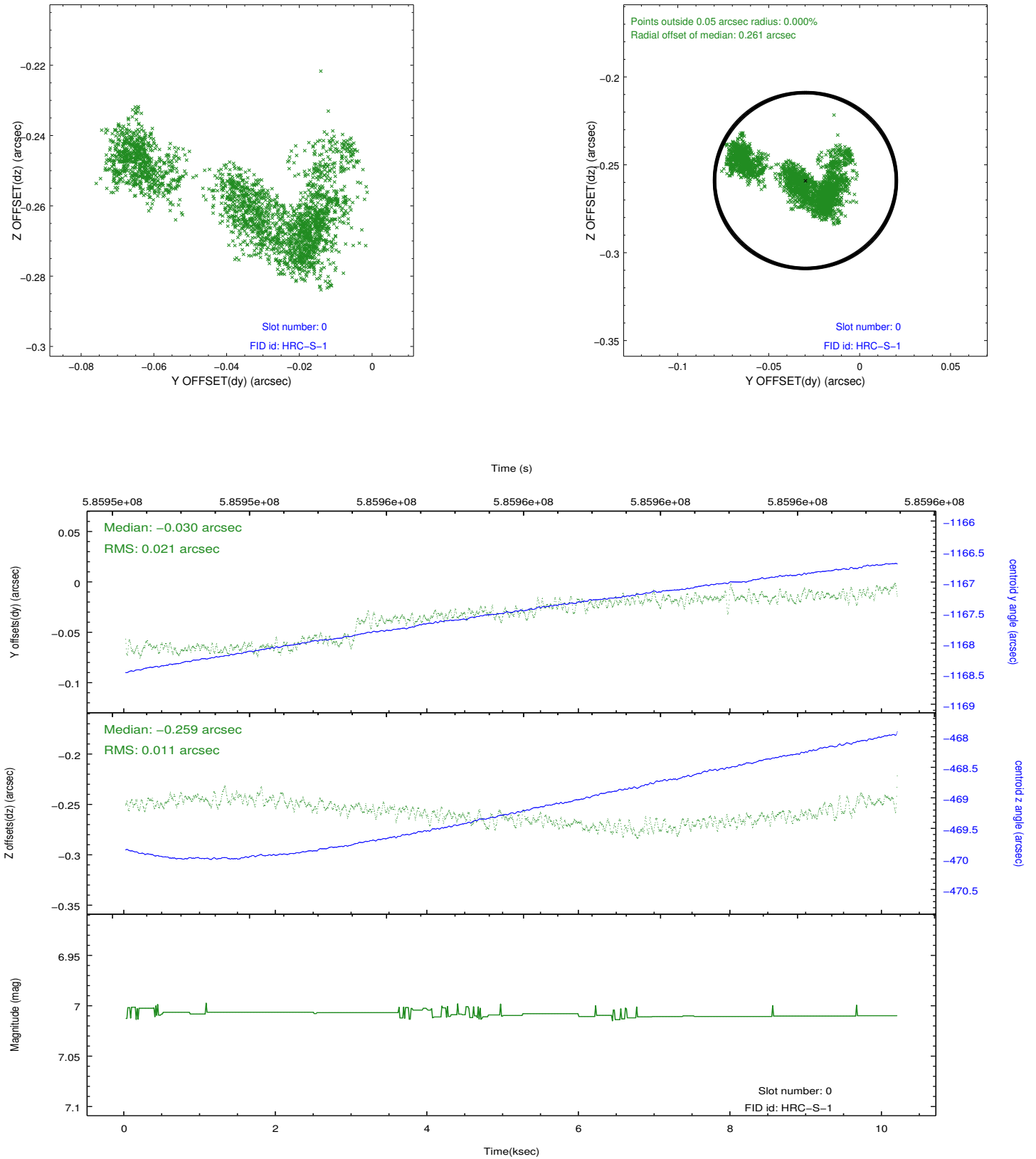


2.4.5 Slot 7

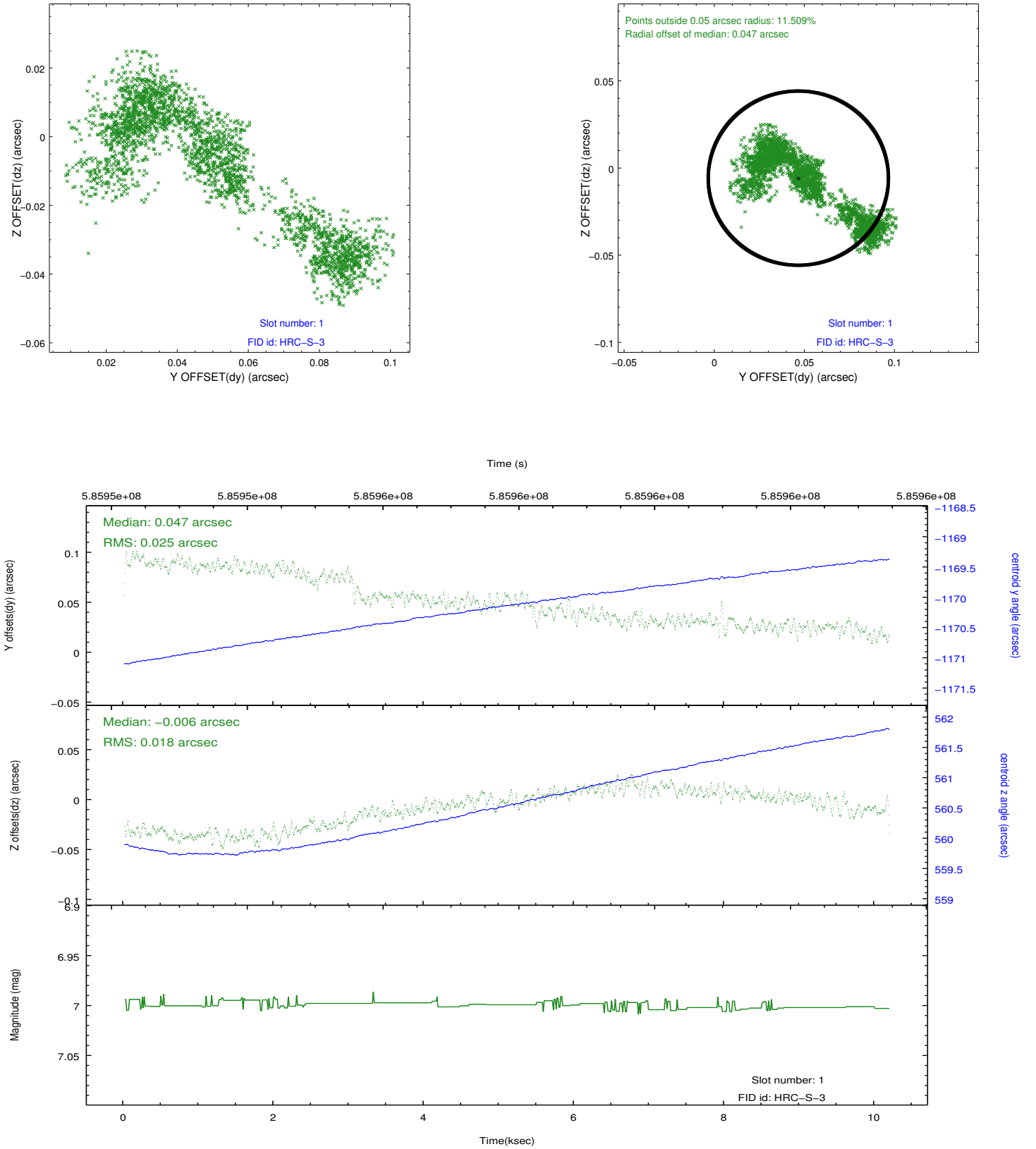


2.5 FID Slots

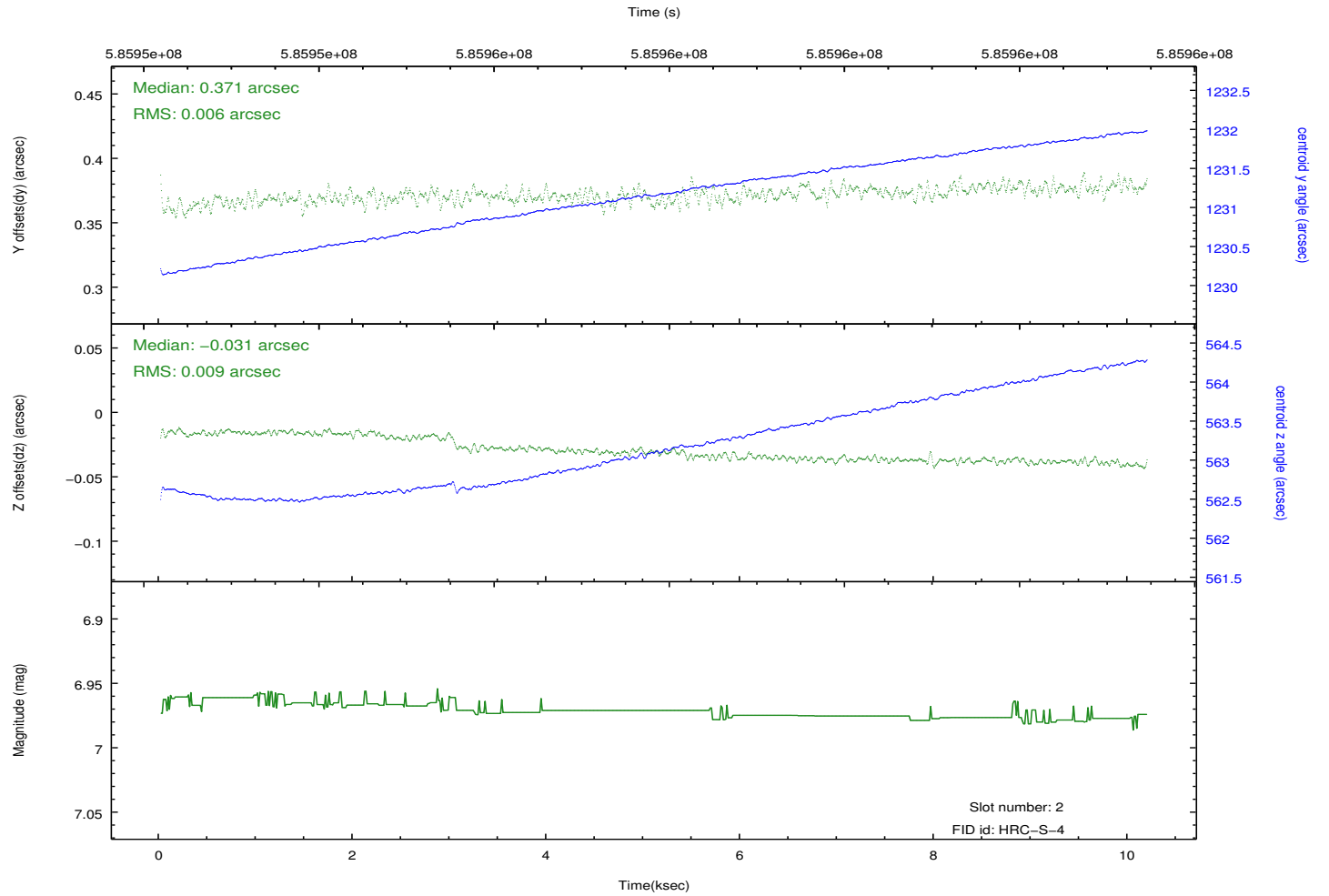
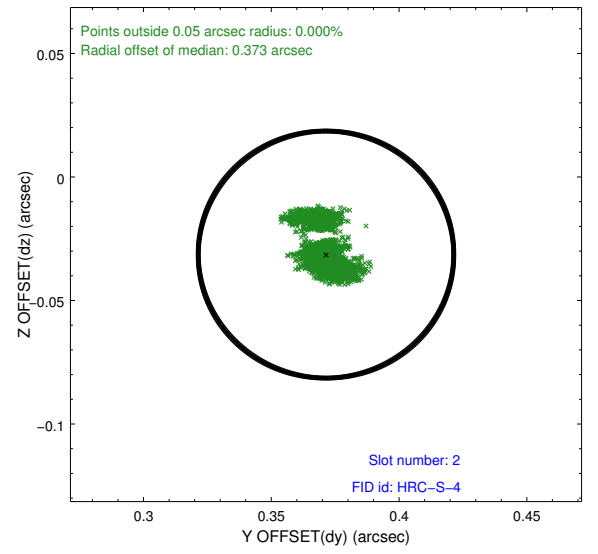
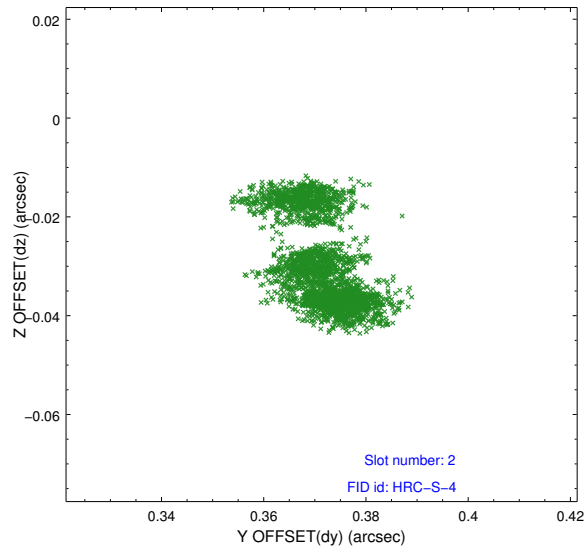
2.5.1 Slot 0



2.5.2 Slot 1

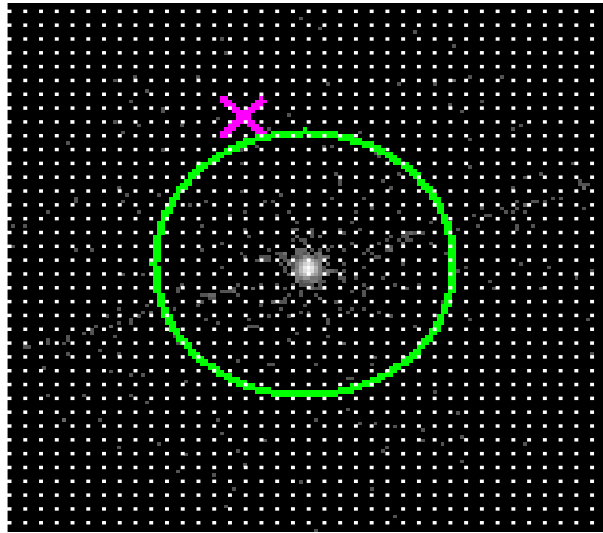


2.5.3 Slot 2

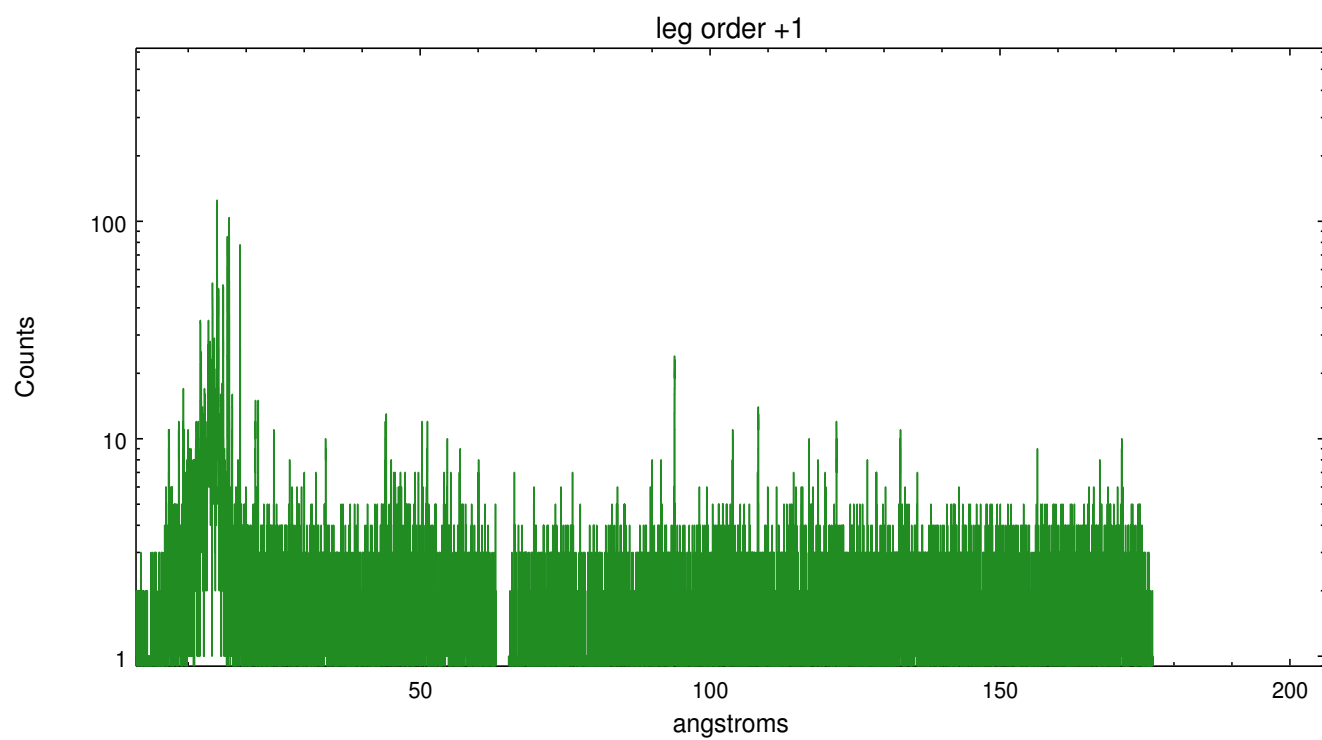
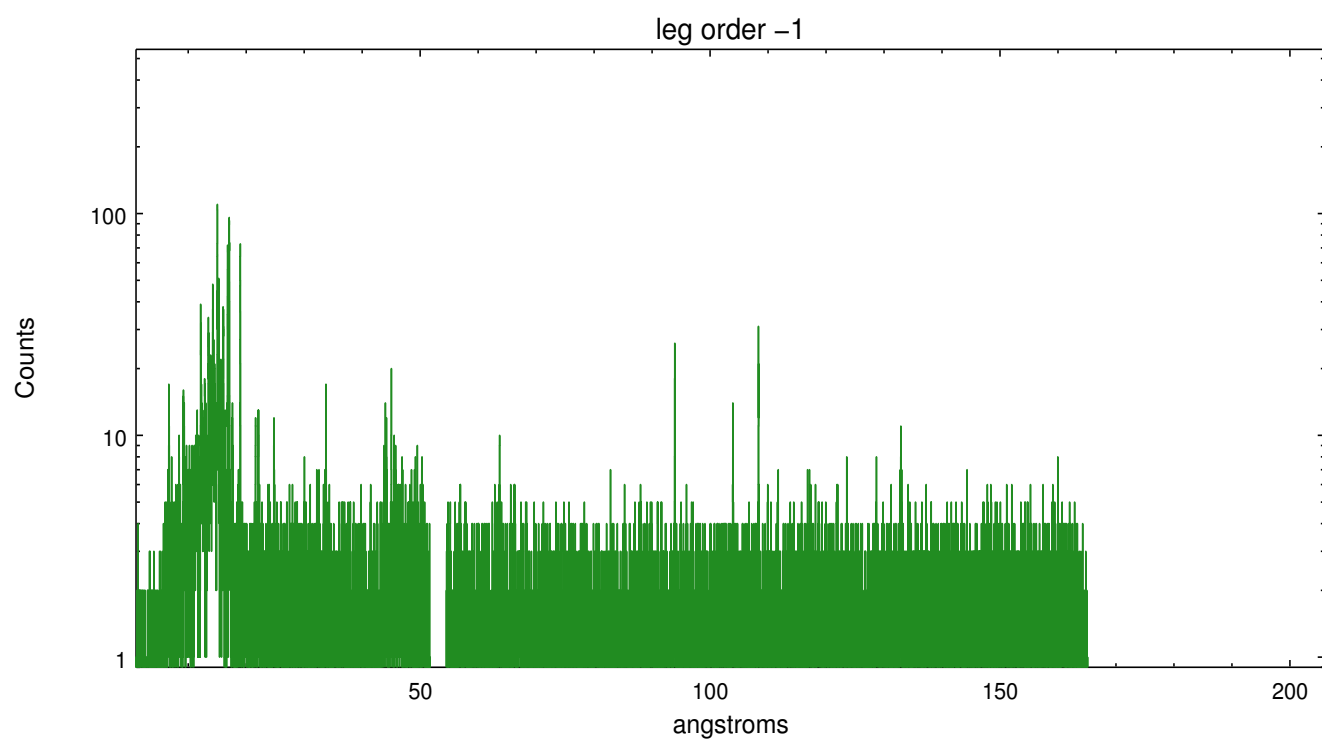


3 Gratings

3.1 LETG Arm



LETG Zero Order



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2016.07.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.185681835055

A.2 Comments