

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 19838 - L2 Version 1
Chandra X-Ray Center

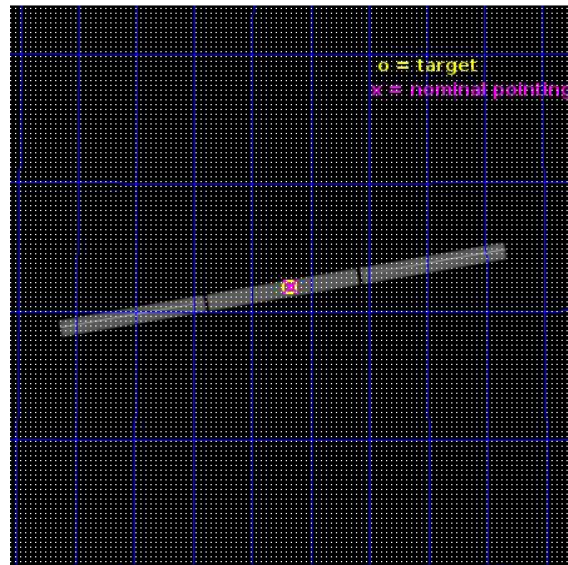
L2 Processing Date : Apr 4 2017

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1 Front

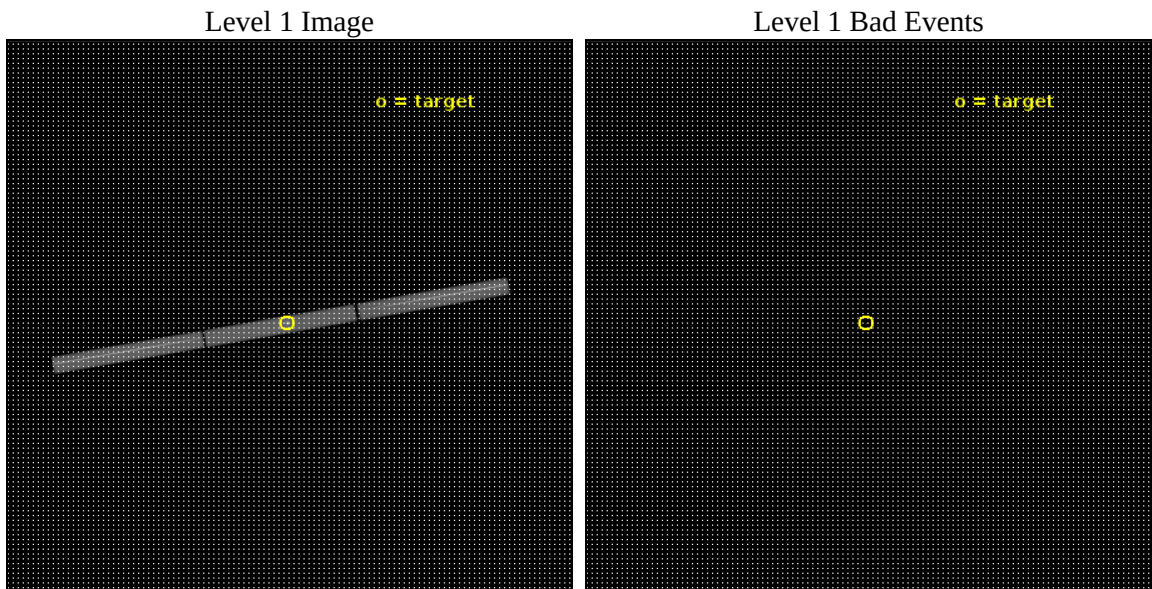
seq_num	291355	Sequence number
obs_id	19838	Observation id
title	AO-18 LETG/HRC-S Calibration Observations of HZ43	Proposal title
observer	CXC Calibration	Principal investigator
object	HZ43	Source name
ra_targ	199.090417	Observer's specified target RA [deg]
dec_targ	29.098306	Observer's specified target Dec [deg]
ra_nom	199.08209706083	Nominal RA [deg]
dec_nom	29.094299817156	Nominal Dec [deg]
roll_nom	169.59176553499	Nominal Roll [deg]
revision	1	Processing version of data
ontime	20173.026160479	[s]
livetime	19941.831530215	Ontime multiplied by DTCOR
l2events	2317178	Number of level 2 events



2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Parameters

obi_num	1	Obi number	sched_exp_time	20000.000000	[s] Scheduled observation exposure time
ascdsver	10.5.2	Processing system revision	ontime	20173.026170492	[s]
caldbver	4.7.3	 	l1events	2738721	Number of level 1 events
date	2017-04-04T15:50:05	Date and time of file creation	tgmethod	TGDETECT	Method used to create src1a file
revision	1	Processing version of data	zo_pos	(32572.59, 32879.13)	src1a sky pixel position

2.1.3 Events

Level 1 Events

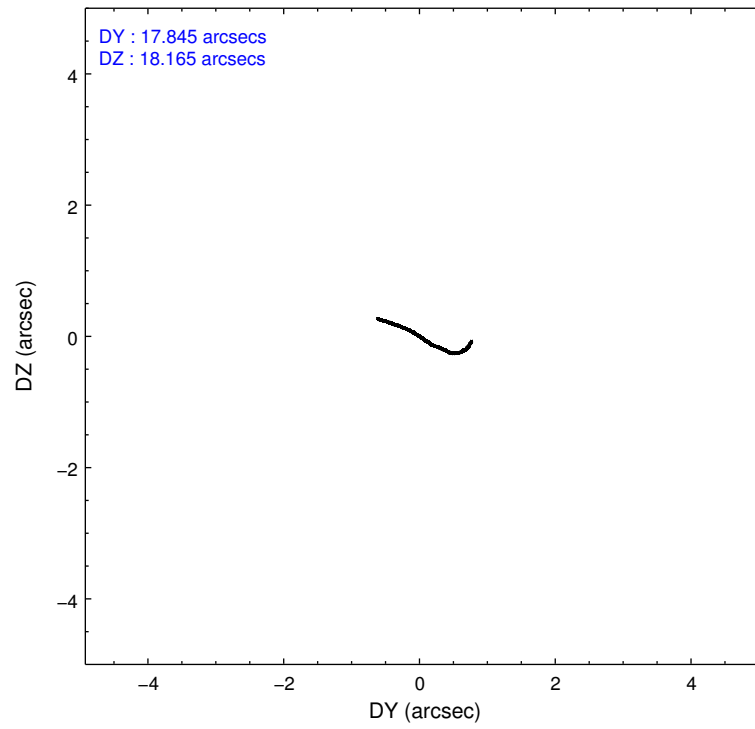
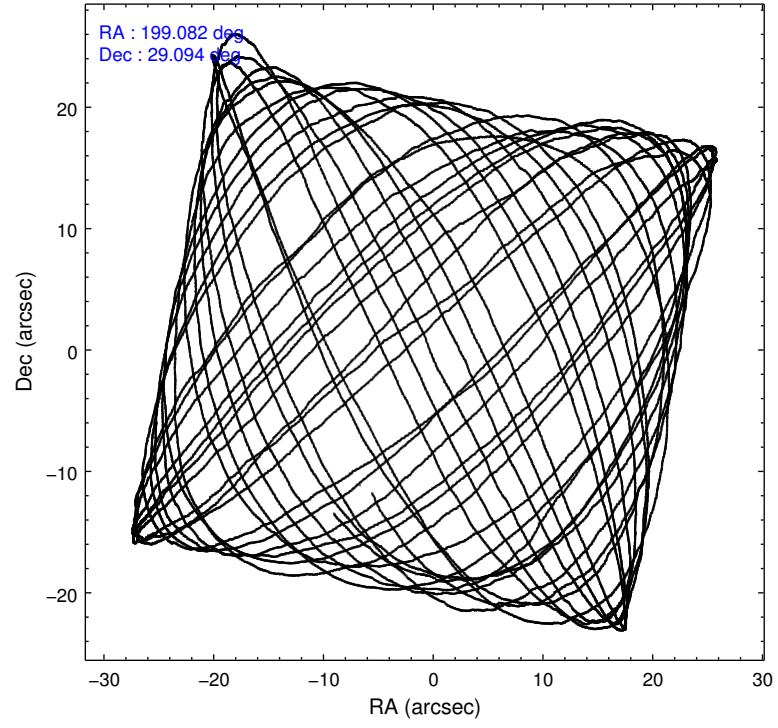
	segment 1	segment 2	segment 3
level 1 events	944933	846443	947345
rejected events	4214	5018	4425
rejected %	0%	0%	0%

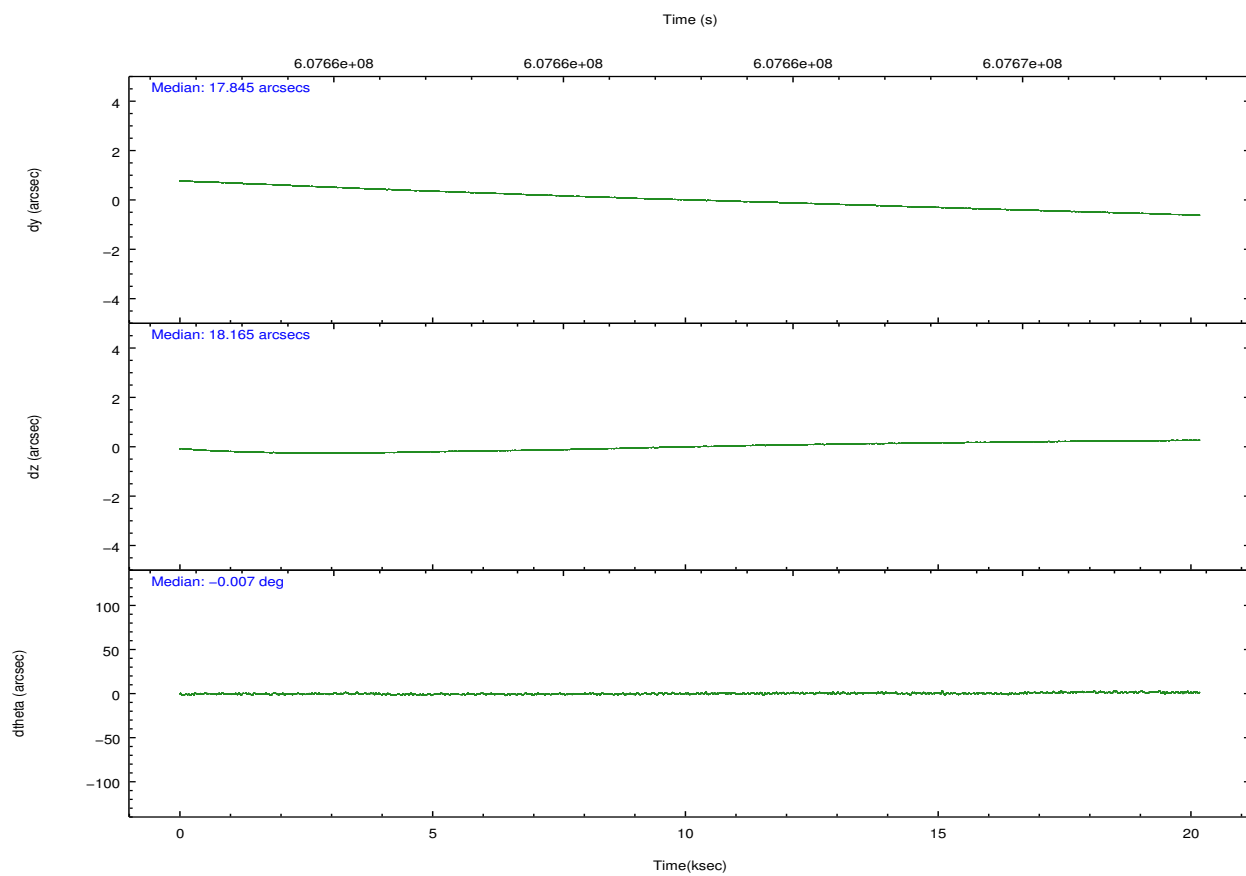
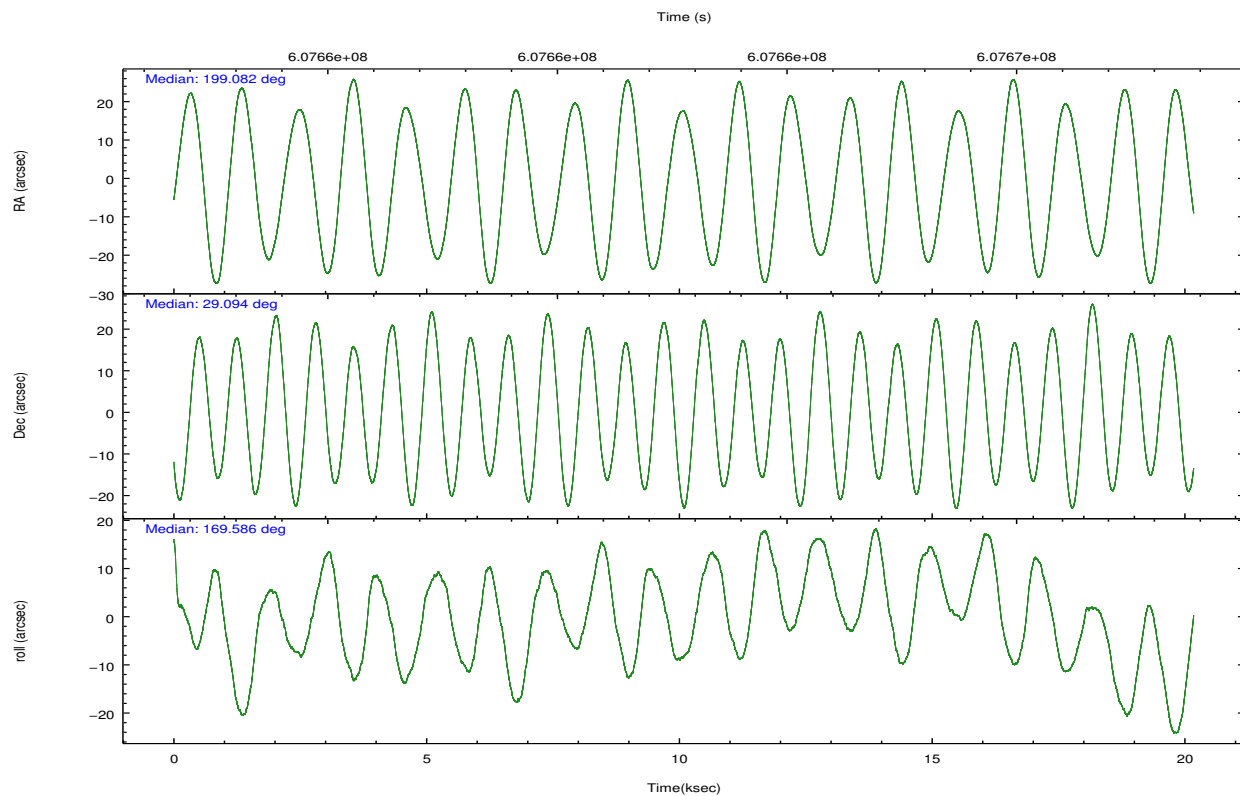
2.2 Compared Parameters

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	199.112554	199.0820970608297
[deg] Pointing Dec	29.105340	29.09429981715637
[deg] Pointing Roll	169.509625	169.5917655349868
[s] Window start time (MET)	605923269.184000	605923269.184000
[s] Window stop time (MET)	608601669.184000	608601669.184000
[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)	607652821.184000	607652204.2416199
Observation start date	2017-04-04T00:25:52	2017-04-04T00:16:44
[s] Observation end time (MET)	607672821.184000	607674322.7179
Observation end date	2017-04-04T05:59:12	2017-04-04T06:25:22

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

2.3 Aspect



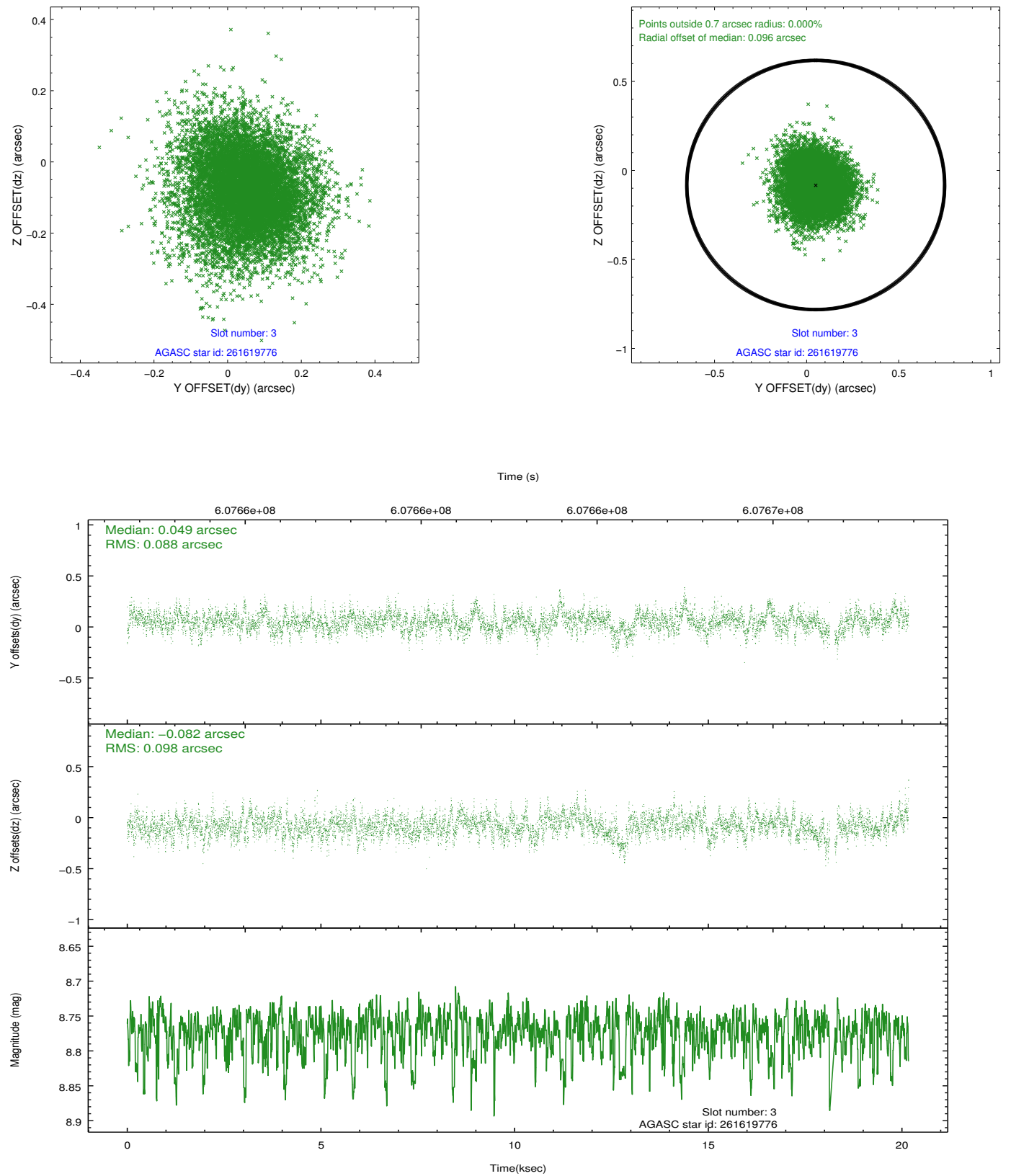


Slot Statistics

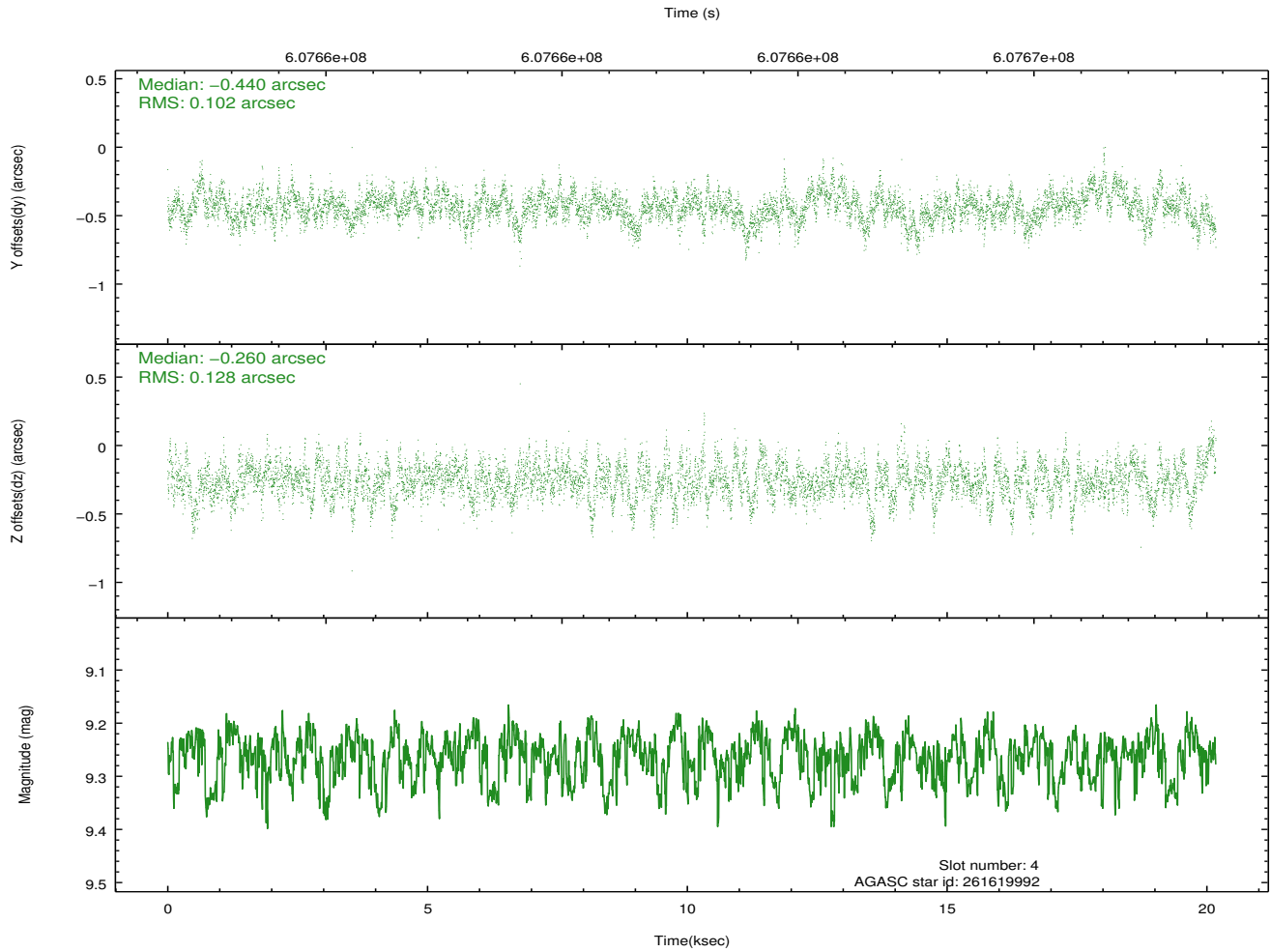
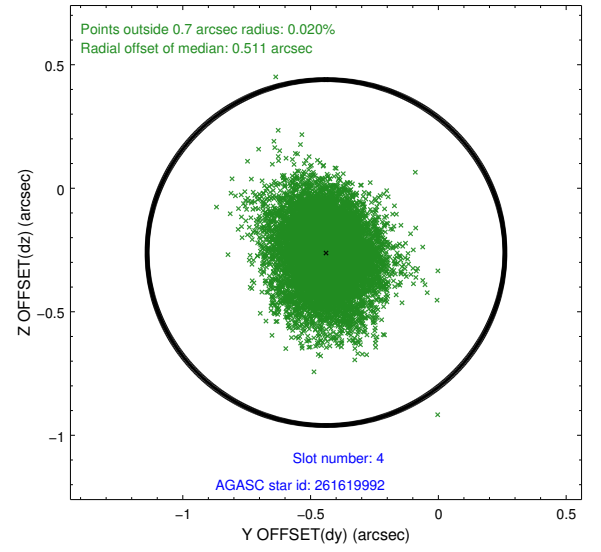
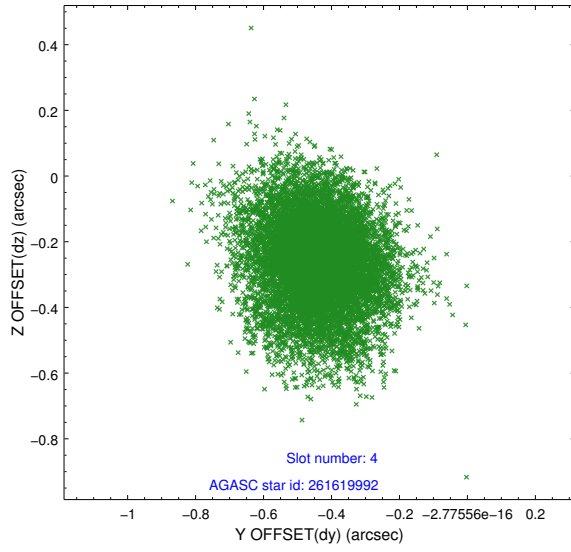
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		HRC-S-1	7.03	4921	-0.053	-0.222	0.008	0.012	0.000000	0.000000	-1172.45	-467.25
1	FID		HRC-S-2	7.00	4920	0.361	-0.121	0.017	0.030	0.000000	0.000000	1227.41	-459.74
2	FID		HRC-S-3	7.01	4921	0.081	0.041	0.017	0.027	0.000000	0.000000	-1174.85	562.45
3	GUIDE	used	261619776	8.77	9772	0.049	-0.082	0.138	0.232	198.654383	29.401174	1607.27	-787.59
4	GUIDE	used	261619992	9.26	9831	-0.440	-0.260	0.173	0.290	198.395553	28.647634	1928.86	2026.08
5	GUIDE	used	261623040	9.09	9825	-0.014	0.388	0.171	0.282	198.792686	29.757643	1411.89	-2127.38
6	GUIDE	used	261623624	9.07	9838	0.639	0.023	0.144	0.246	199.611555	28.454113	-1978.09	2014.36
7	GUIDE	used	261624456	7.28	9840	-0.238	-0.068	0.112	0.189	199.758056	28.567828	-2356.51	1524.21

2.4 Star Slots

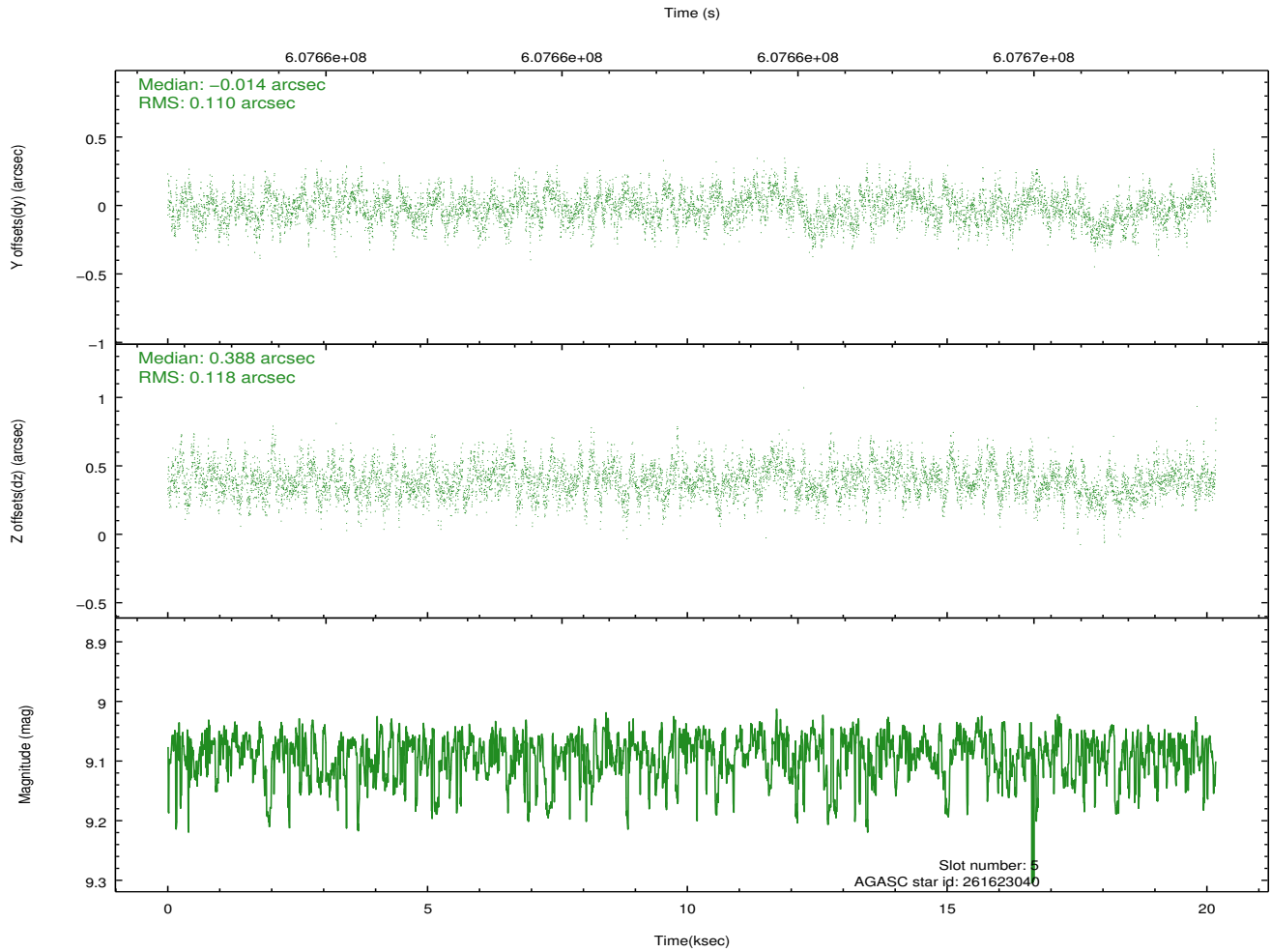
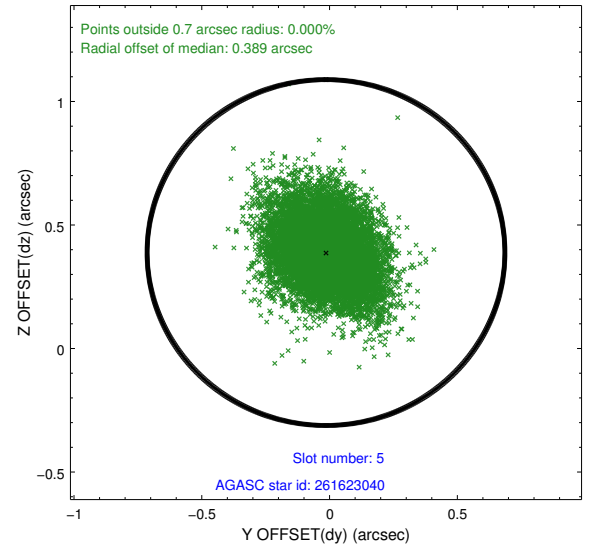
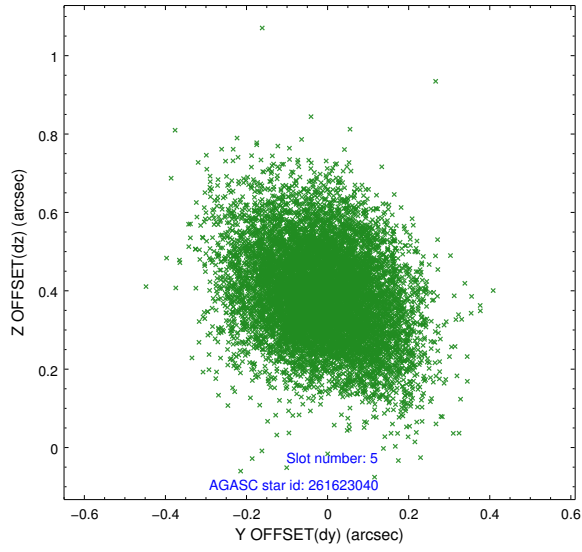
2.4.1 Slot 3



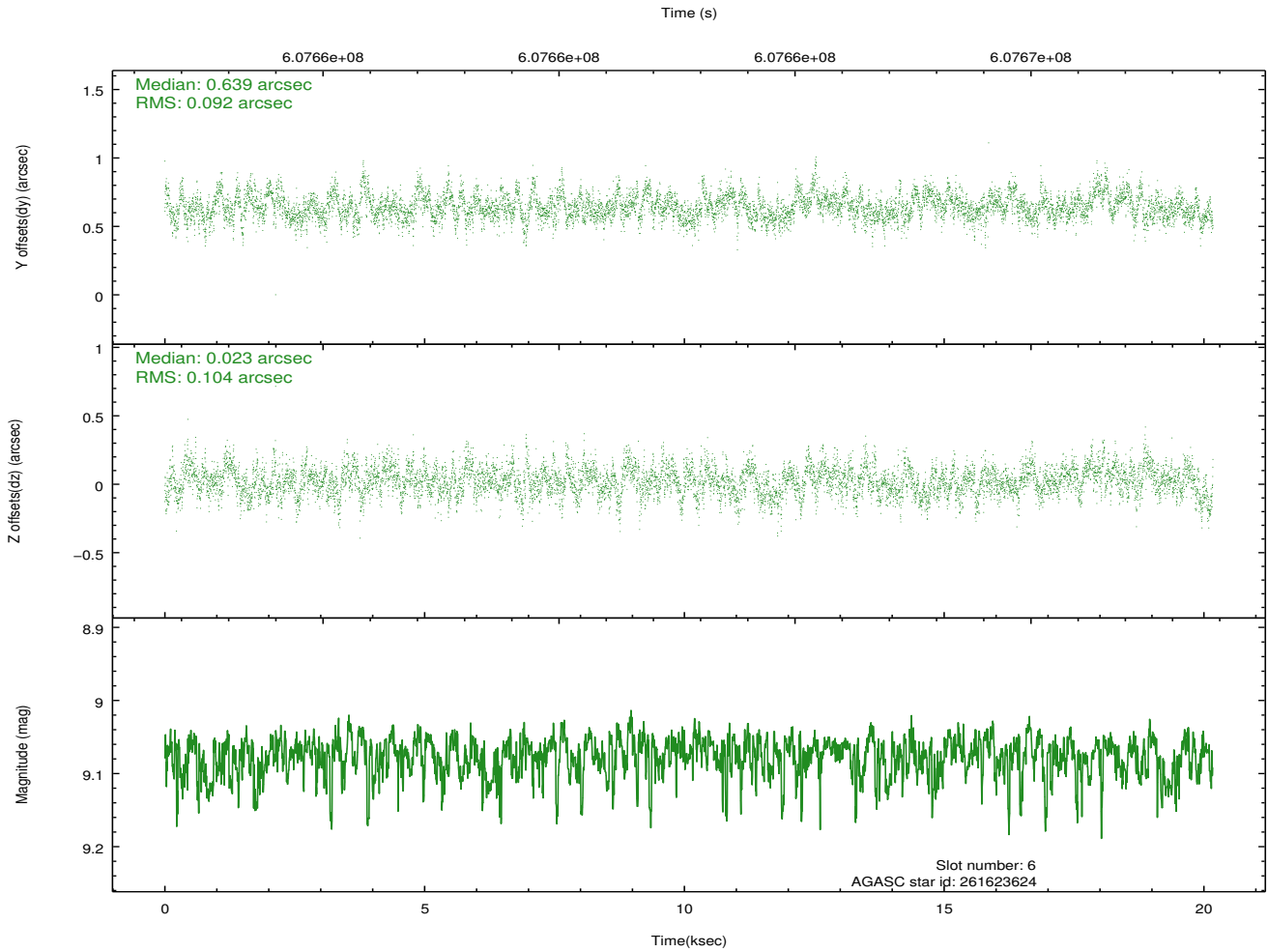
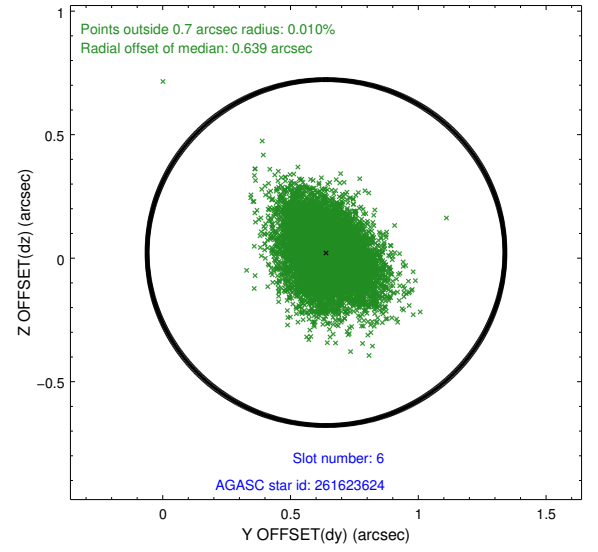
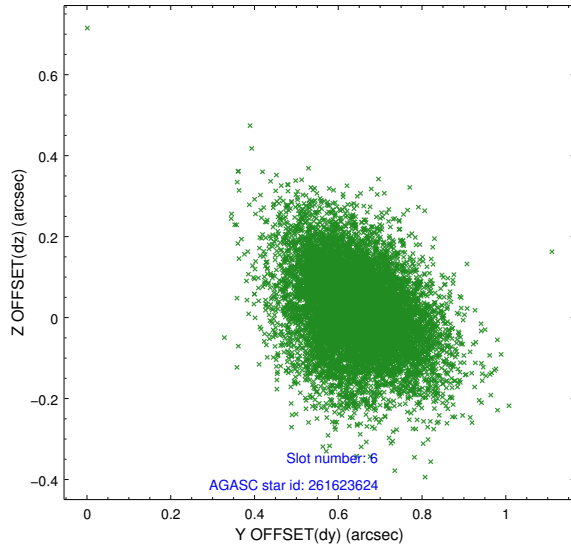
2.4.2 Slot 4



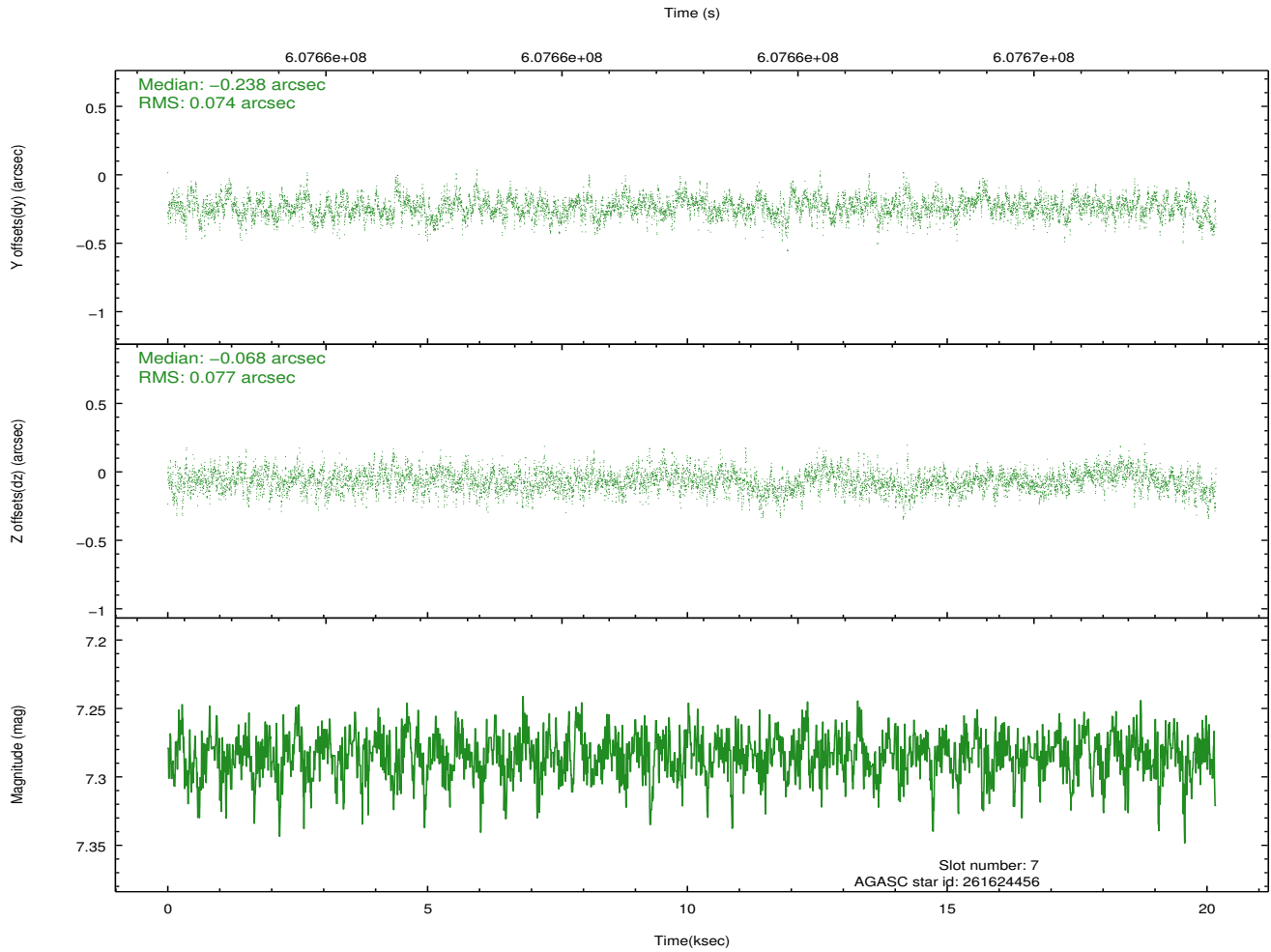
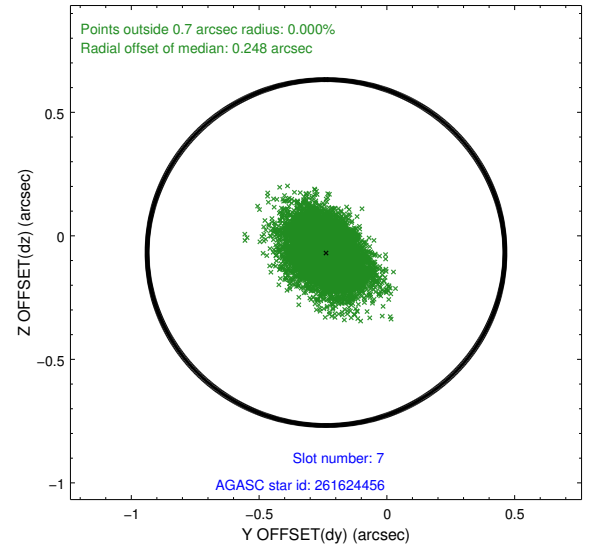
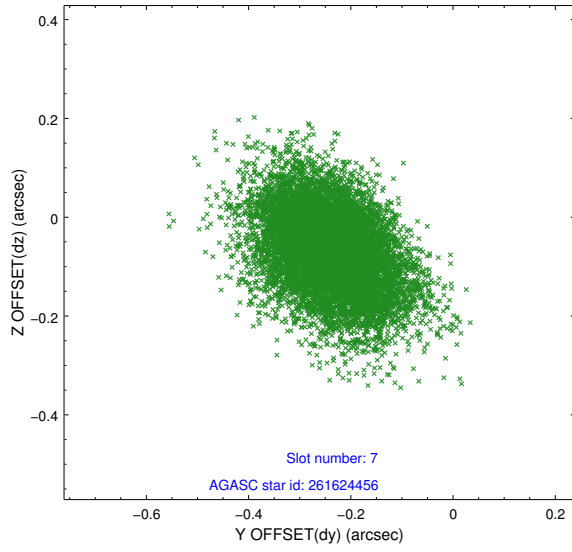
2.4.3 Slot 5



2.4.4 Slot 6

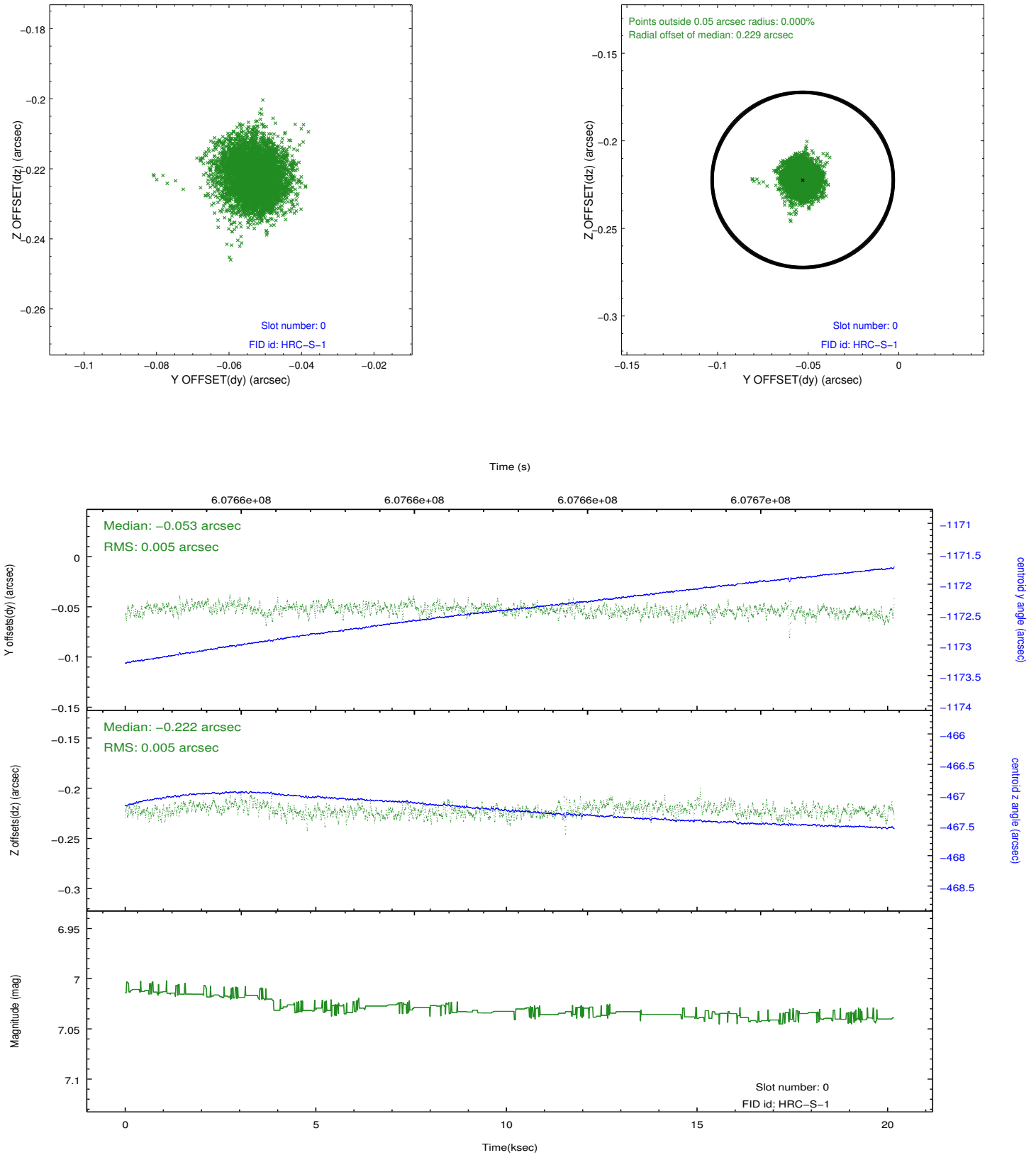


2.4.5 Slot 7

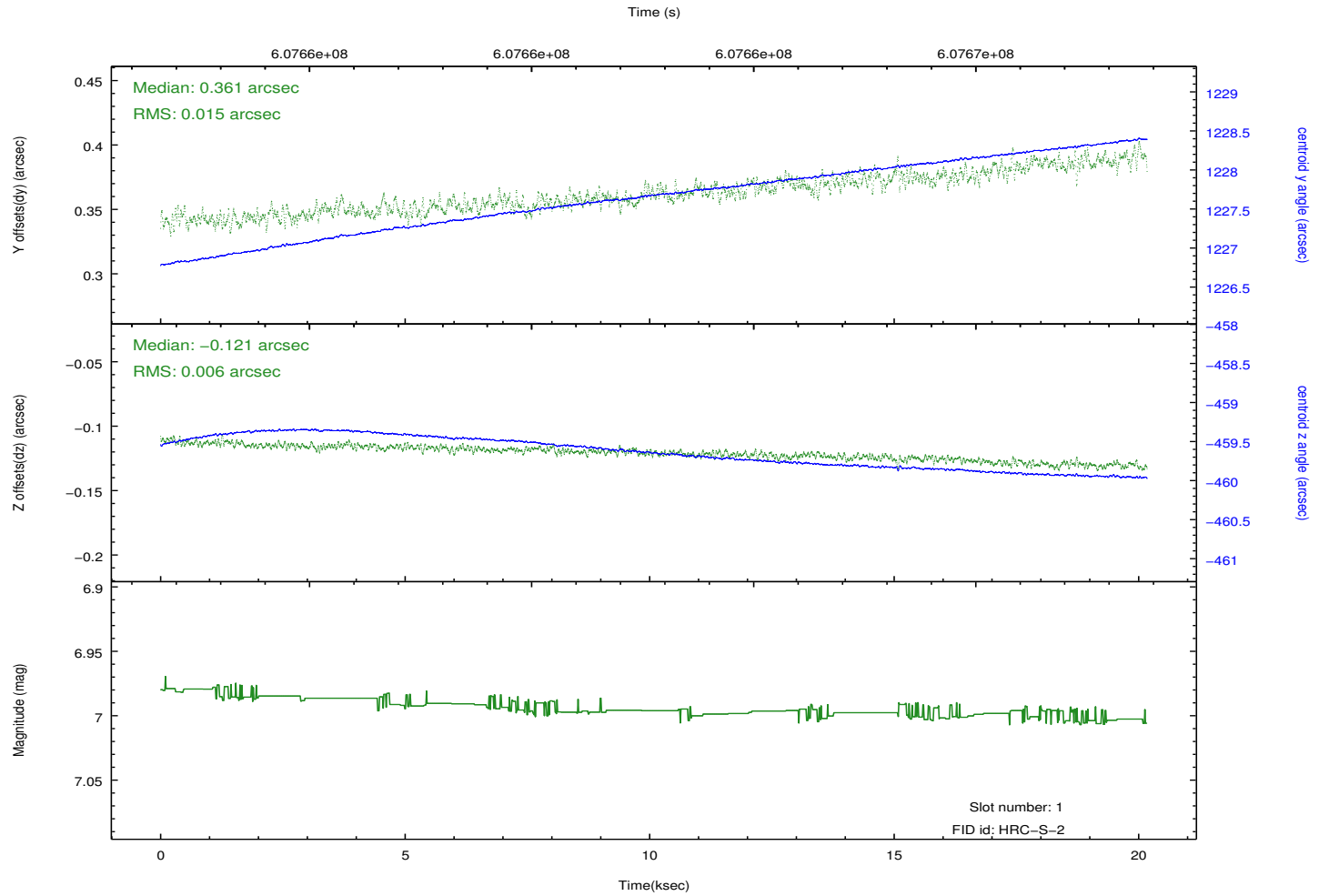
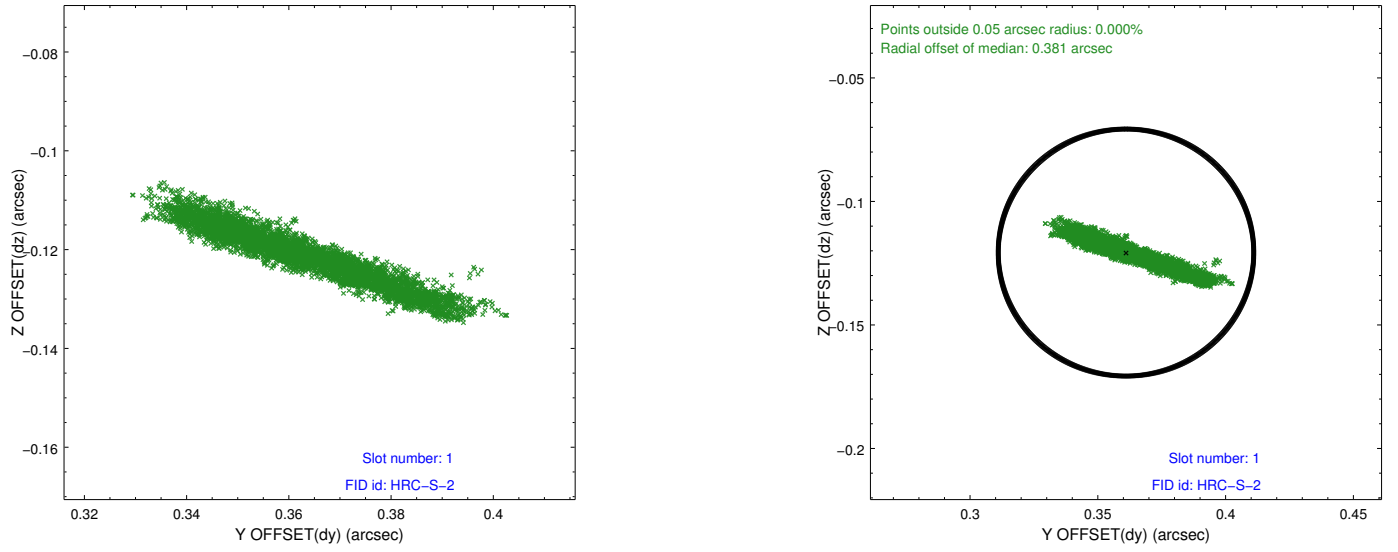


2.5 FID Slots

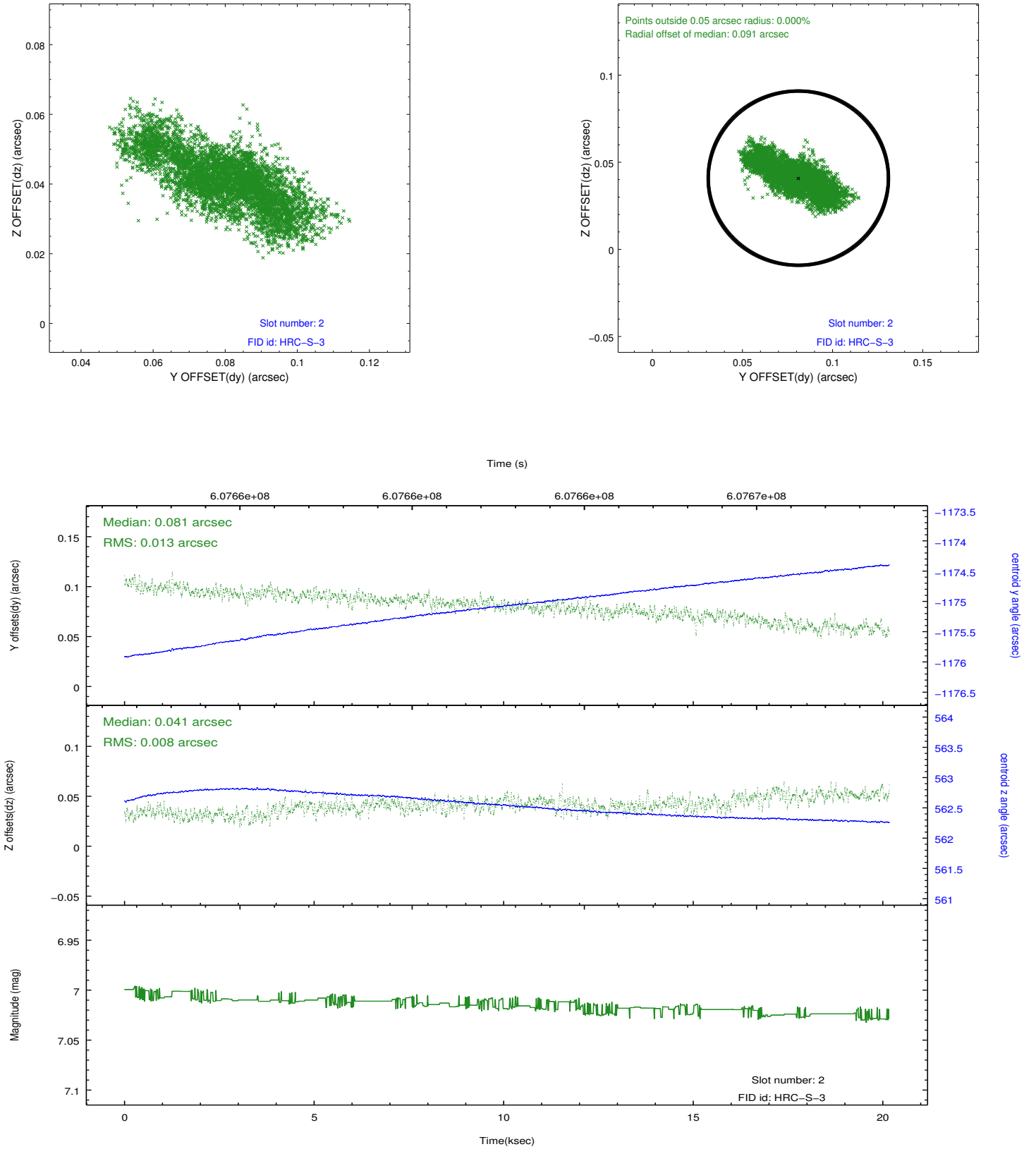
2.5.1 Slot 0



2.5.2 Slot 1

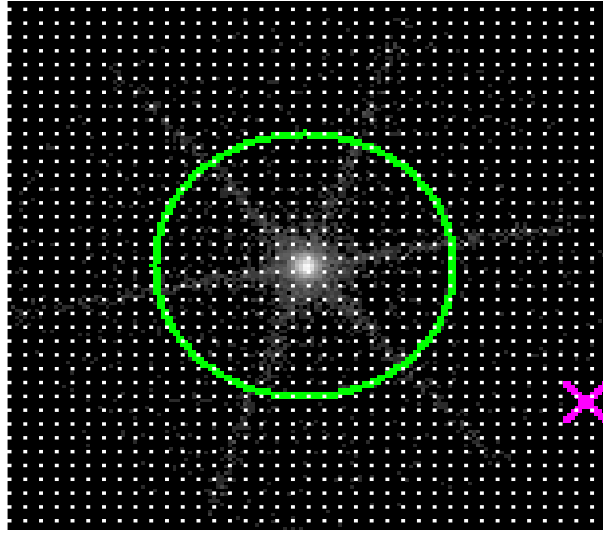


2.5.3 Slot 2

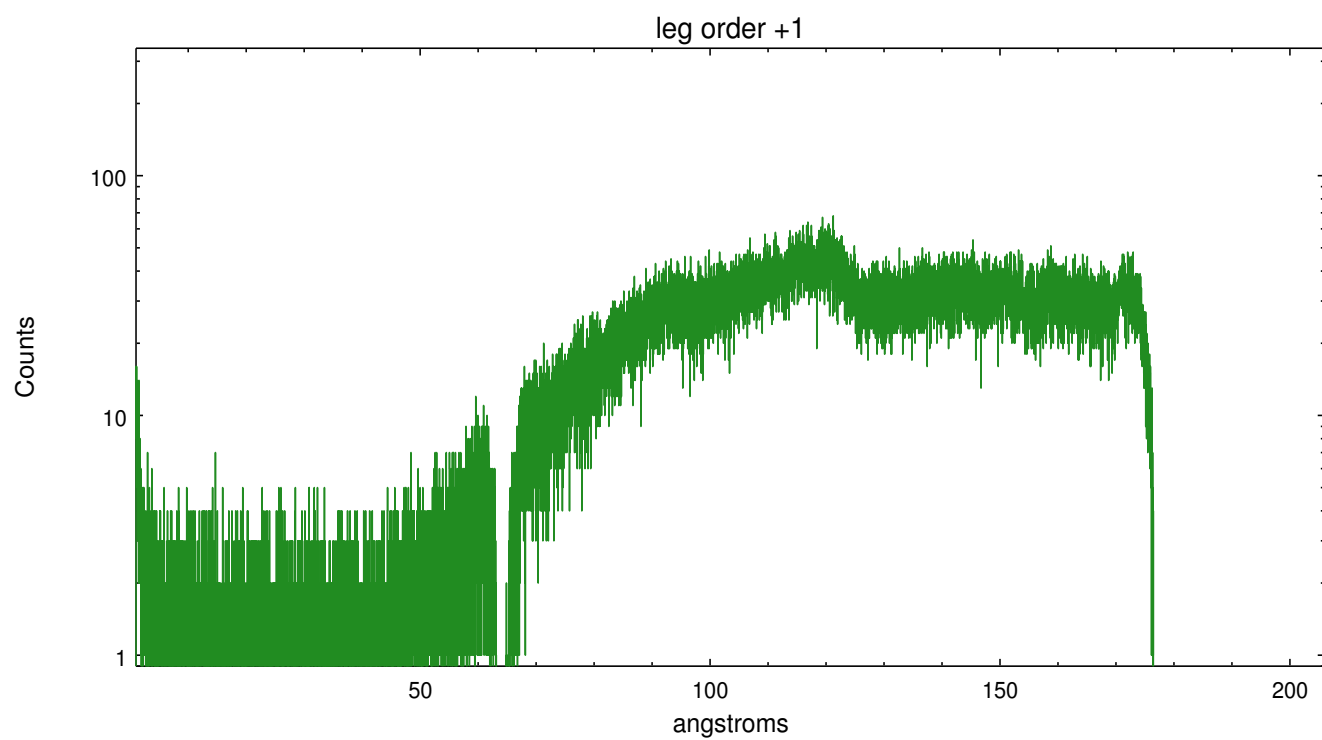
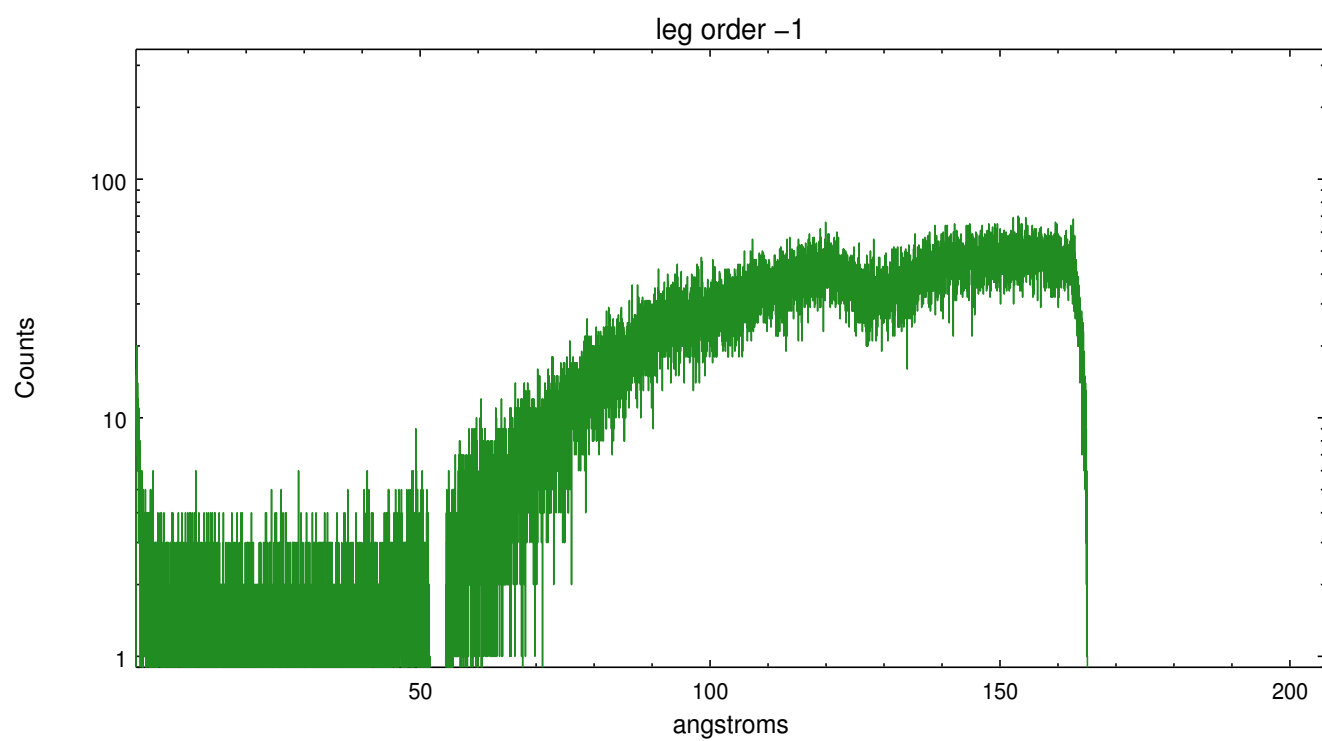


3 Gratings

3.1 LETG Arm



LETG Zero Order



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2017.04.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.173026160479

A.2 Comments