

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 19839 - L2 Version 1
Chandra X-Ray Center

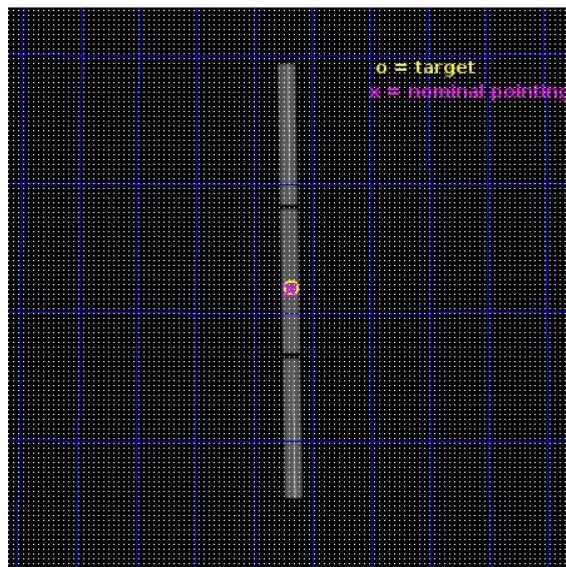
L2 Processing Date : Aug 8 2017

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1 Front

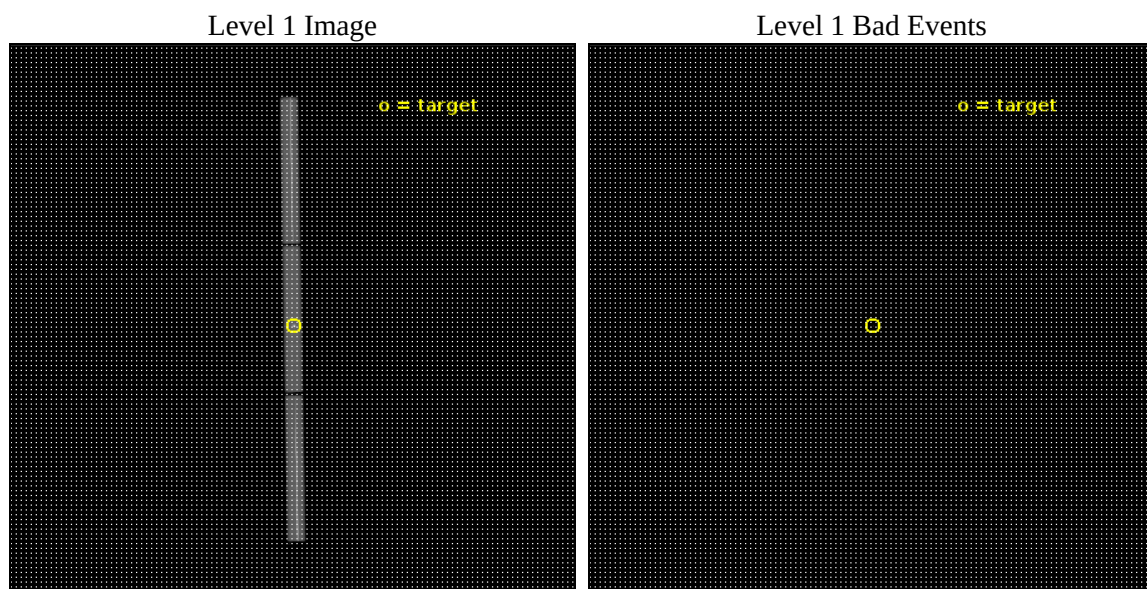
seq_num	291356	Sequence number
obs_id	19839	Observation id
title	AO-18 LETG/HRC-S Calibration Observations of HZ43	Proposal title
observer	CXC Calibration	Principal investigator
object	HZ43	Source name
ra_targ	199.090417	Observer's specified target RA [deg]
dec_targ	29.098306	Observer's specified target Dec [deg]
ra_nom	199.09708633154	Nominal RA [deg]
dec_nom	29.090076007999	Nominal Dec [deg]
roll_nom	268.99459170183	Nominal Roll [deg]
revision	1	Processing version of data
ontime	20175.076178432	[s]
livetime	19949.846391957	Ontime multiplied by DTCOR
l2events	2248802	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	20000.000000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	20175.076178432	[s]
caldsver	4.7.5	 	l1events	2675866	Number of level 1 events
date	2017-08-08T21:58:09	Date and time of file creation	tgmethod	TGDETECT	Method used to create src1a file
revision	1	Processing version of data	zo_pos	(32934.98, 32993.75)	src1a sky pixel position

2.1.3 Events

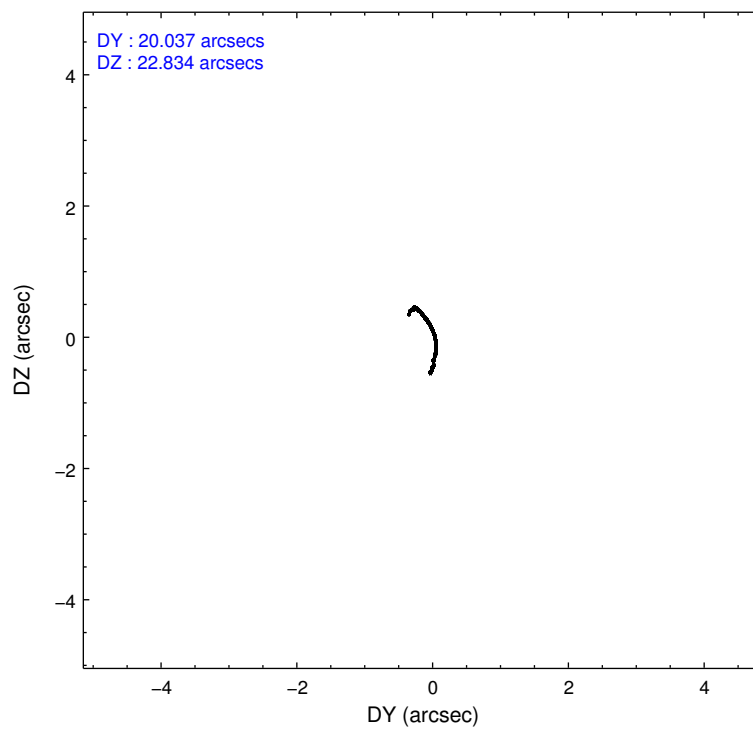
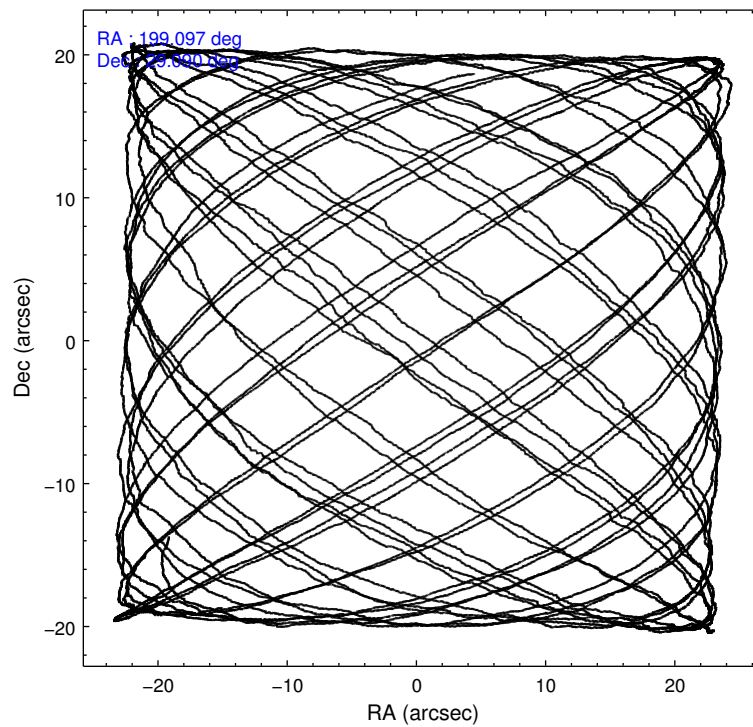
Level 1 Events

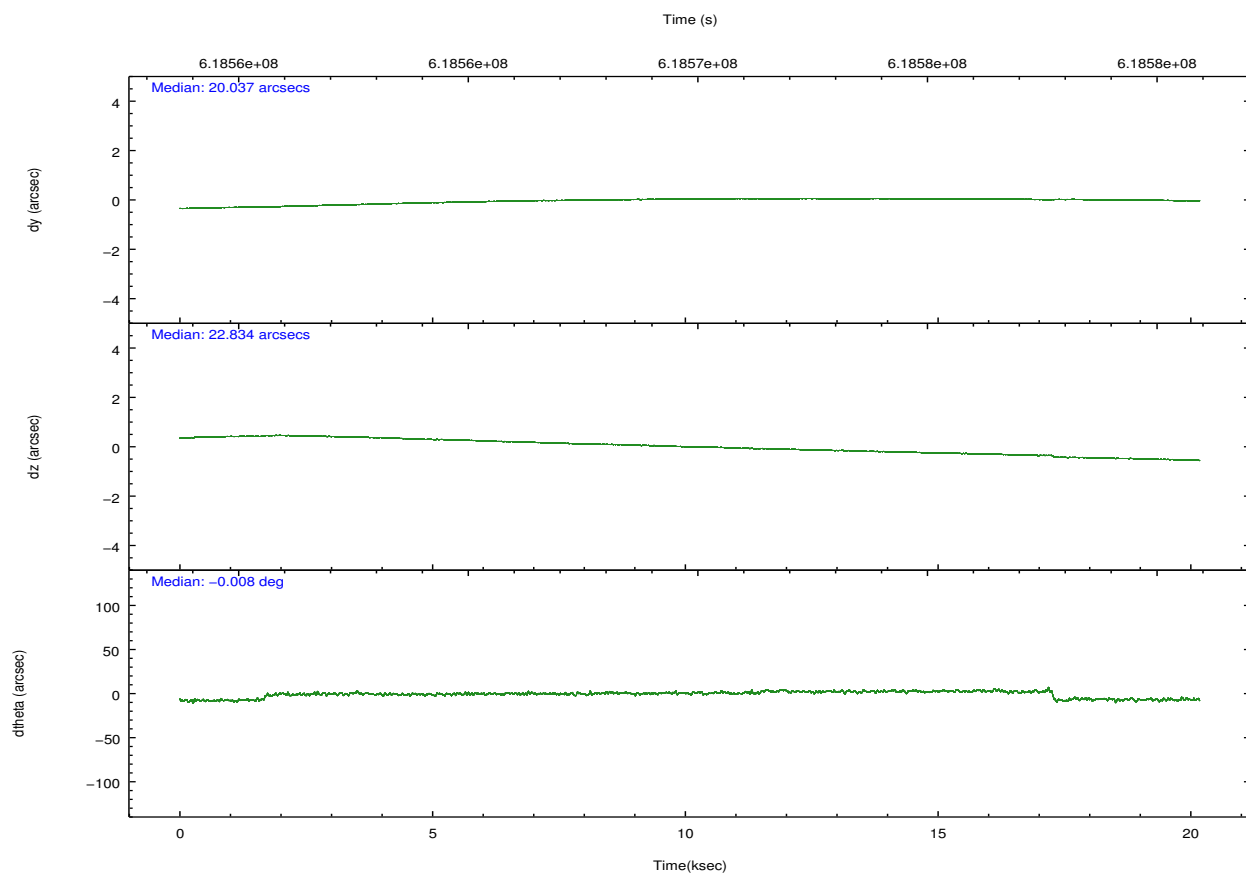
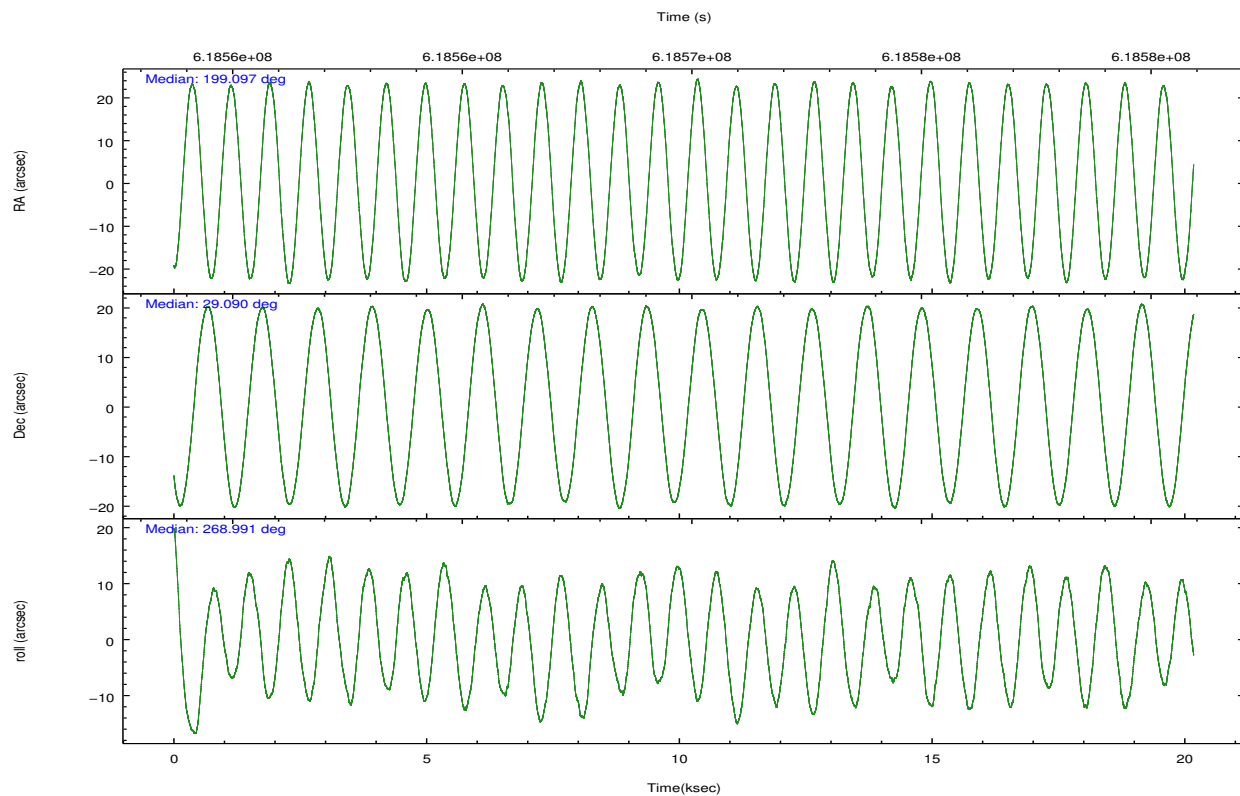
	segment 1	segment 2	segment 3
level 1 events	923785	825837	926244
rejected events	5462	5268	5377
rejected %	0%	0%	0%

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	199.079722	199.0970863315429			
[deg] Pointing Dec	29.114666	29.09007600799879			
[deg] Pointing Roll	268.935703	268.9945917018312			
[s] Window start time (MET)	616464069.184000	616464069.184000			
[s] Window stop time (MET)	619142469.184000	619142469.184000			
[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)	618559890.184000	618559248.32658			
Observation start date	2017-08-08T06:10:21	2017-08-08T06:00:48			
[s] Observation end time (MET)	618579890.184000	618581311.45287			
Observation end date	2017-08-08T11:43:41	2017-08-08T12:08:31			

2.3 Aspect



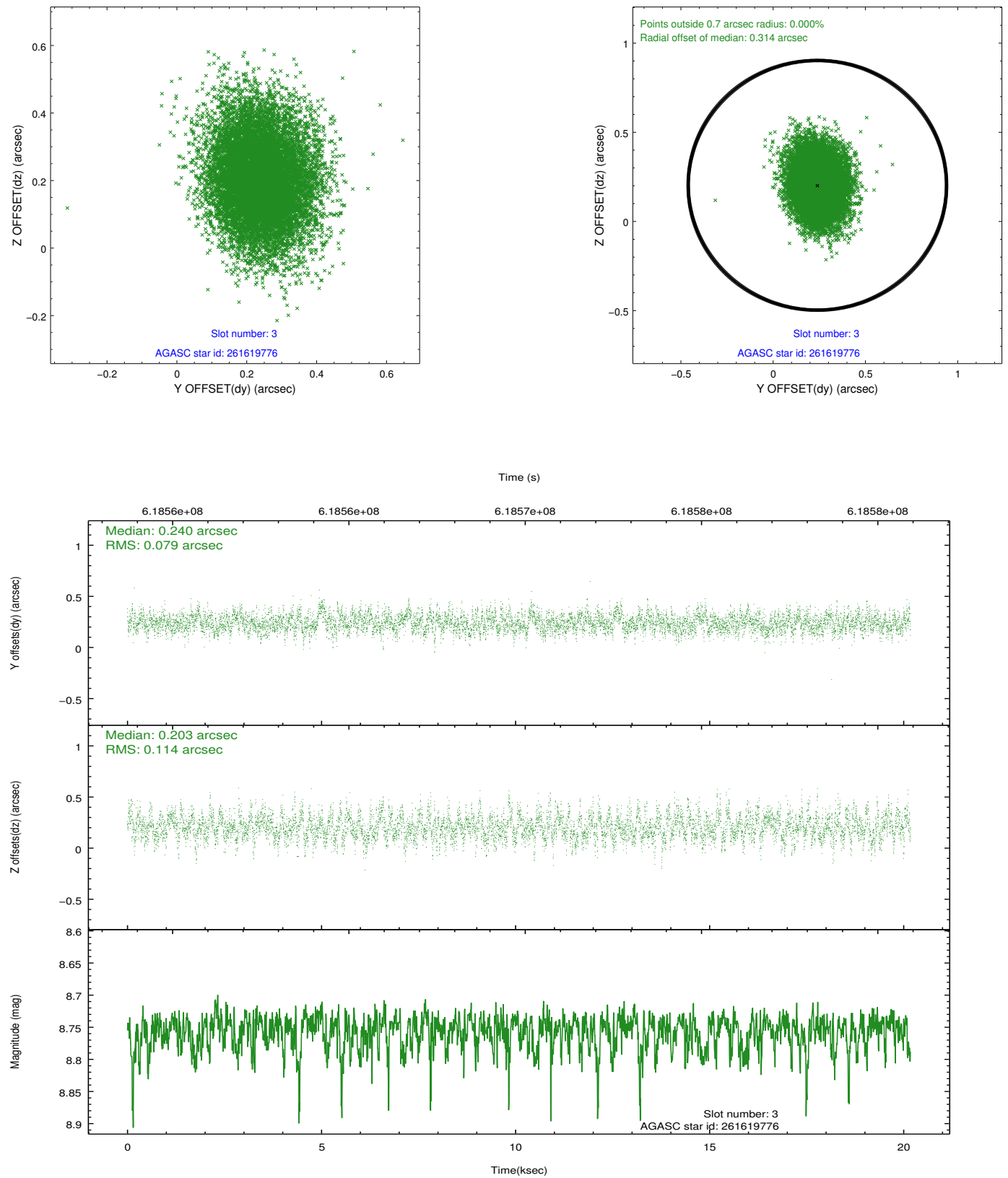


Slot Statistics

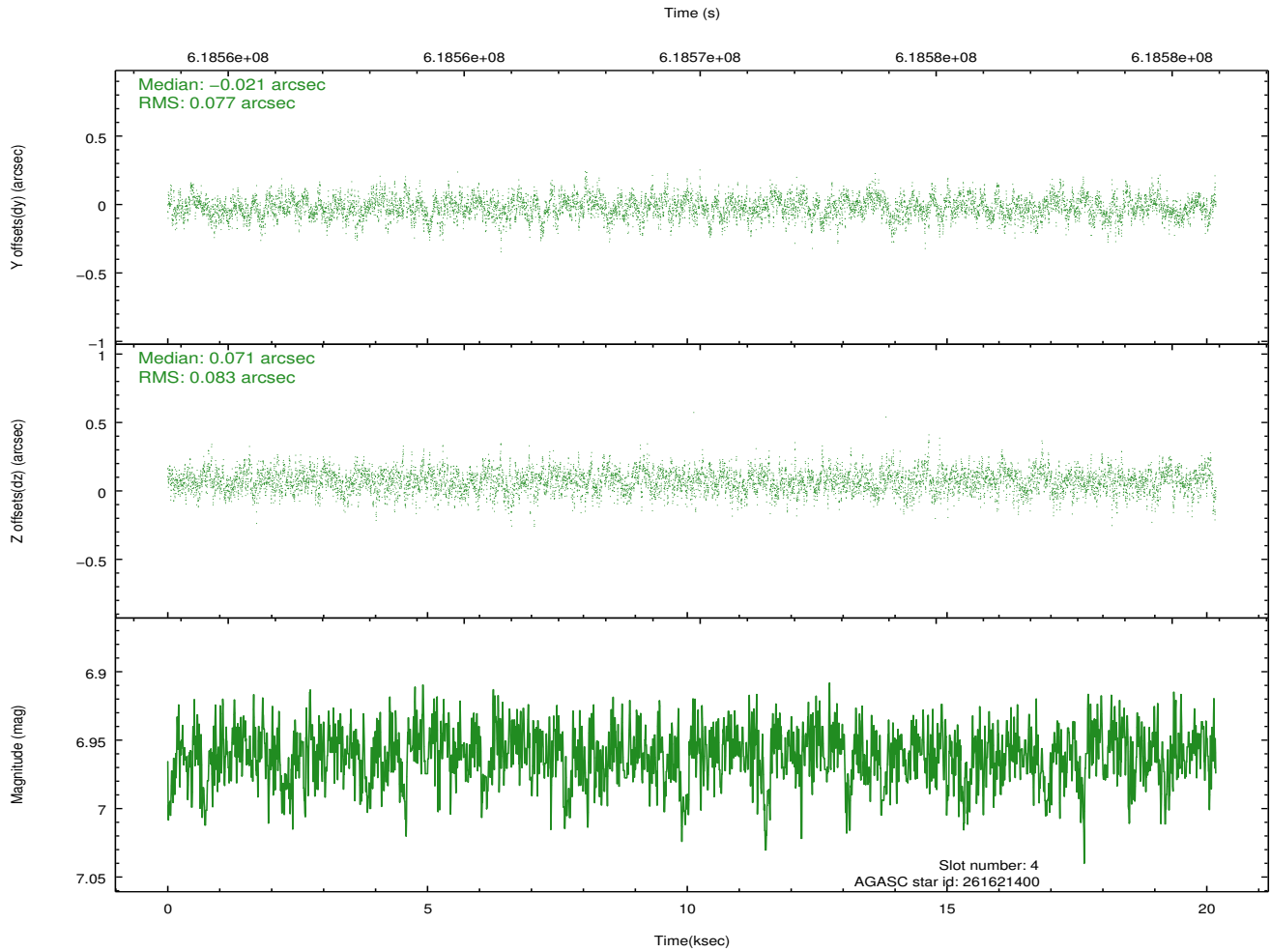
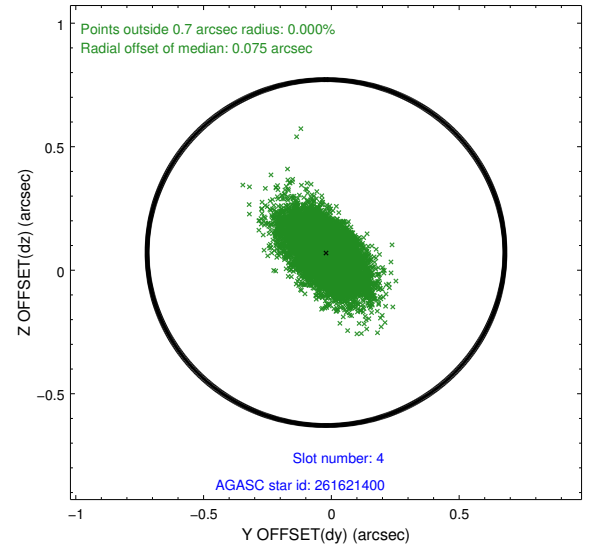
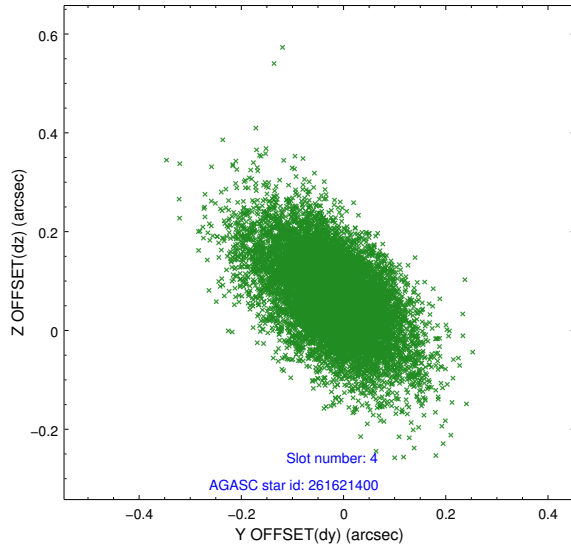
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		HRC-S-1	7.06	4920	-0.127	-0.232	0.015	0.022	0.000000	0.000000	-1174.67	-472.10
1	FID		HRC-S-3	7.05	4921	0.035	-0.076	0.018	0.034	0.000000	0.000000	-1177.54	557.49
2	FID		HRC-S-4	7.02	4920	0.478	0.010	0.012	0.025	0.000000	0.000000	1223.87	560.54
3	GUIDE	used	261619776	8.75	9834	0.240	0.203	0.146	0.242	198.654383	29.401174	-1007.65	-1351.71
4	GUIDE	used	261621400	6.96	9842	-0.021	0.071	0.115	0.206	198.901600	28.741982	1351.48	-537.63
5	GUIDE	used	261623040	9.06	9835	0.423	0.446	0.159	0.259	198.792686	29.757643	-2297.94	-939.55
6	GUIDE	used	261624456	7.28	9843	-0.437	-0.267	0.139	0.229	199.758056	28.567828	1919.81	2179.52
7	GUIDE	used	261629720	8.08	9841	-0.208	-0.457	0.120	0.205	199.236176	29.044452	243.42	496.98

2.4 Star Slots

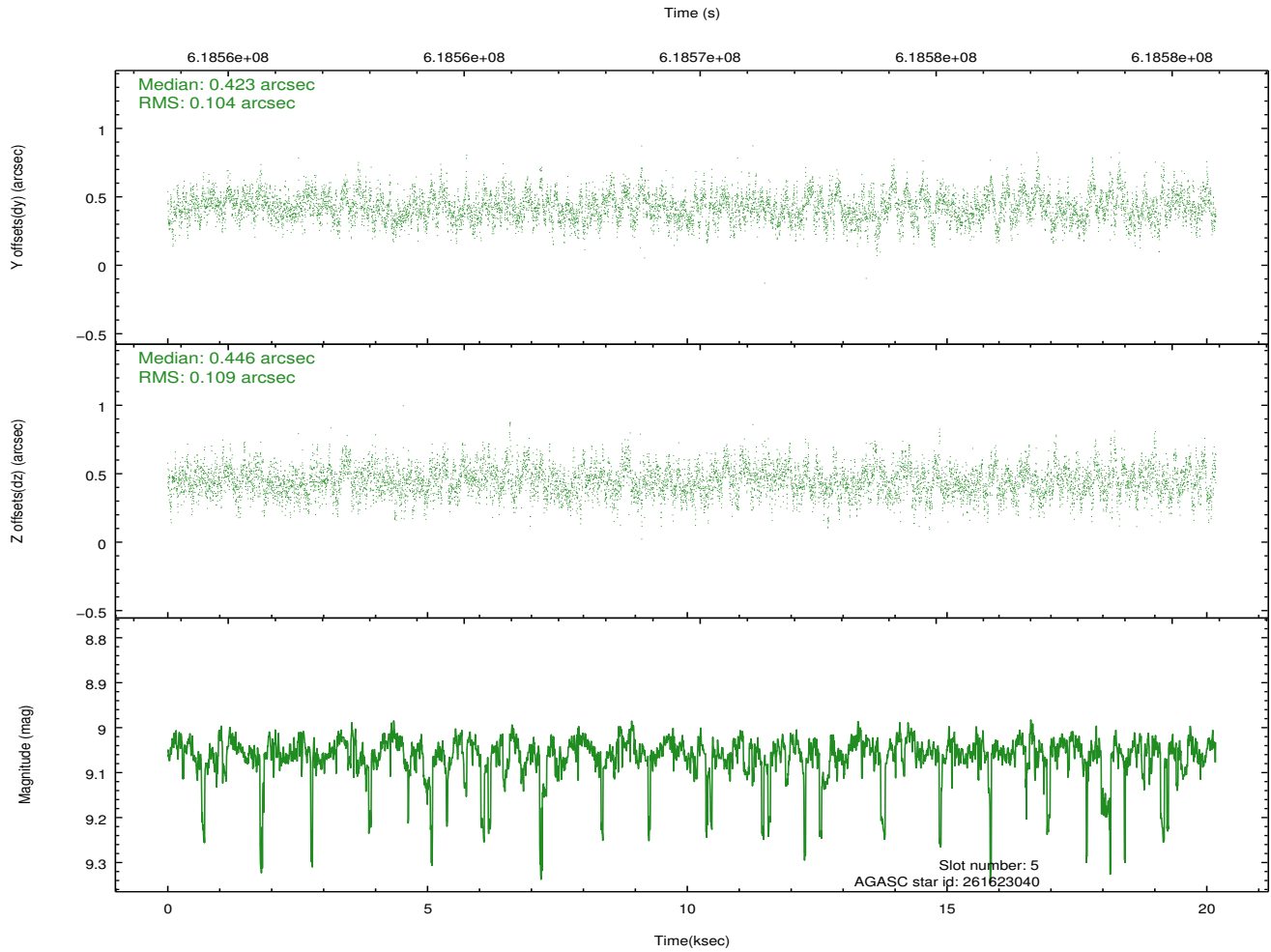
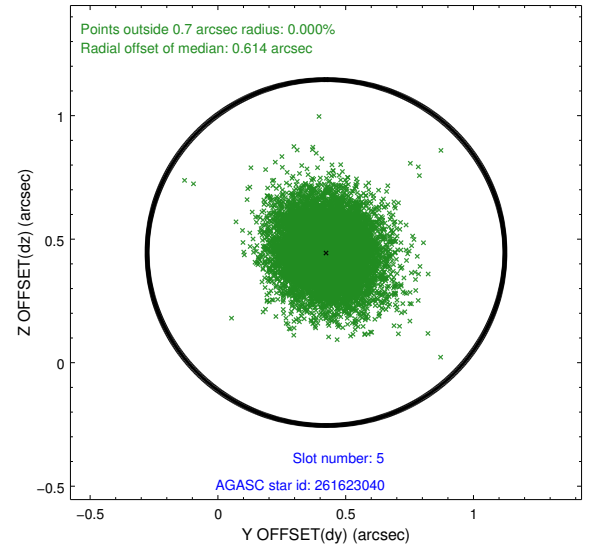
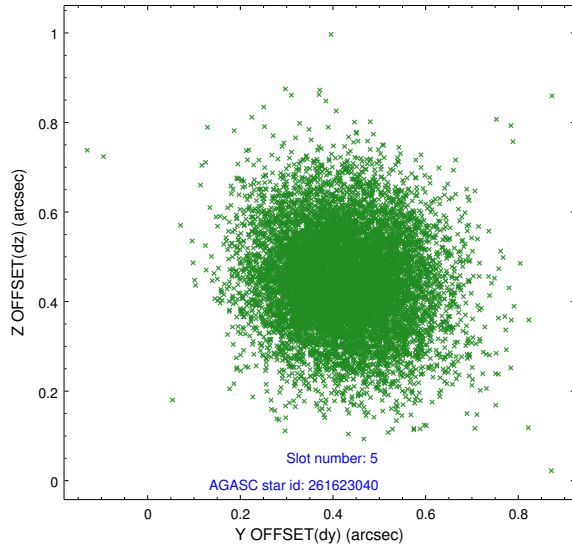
2.4.1 Slot 3



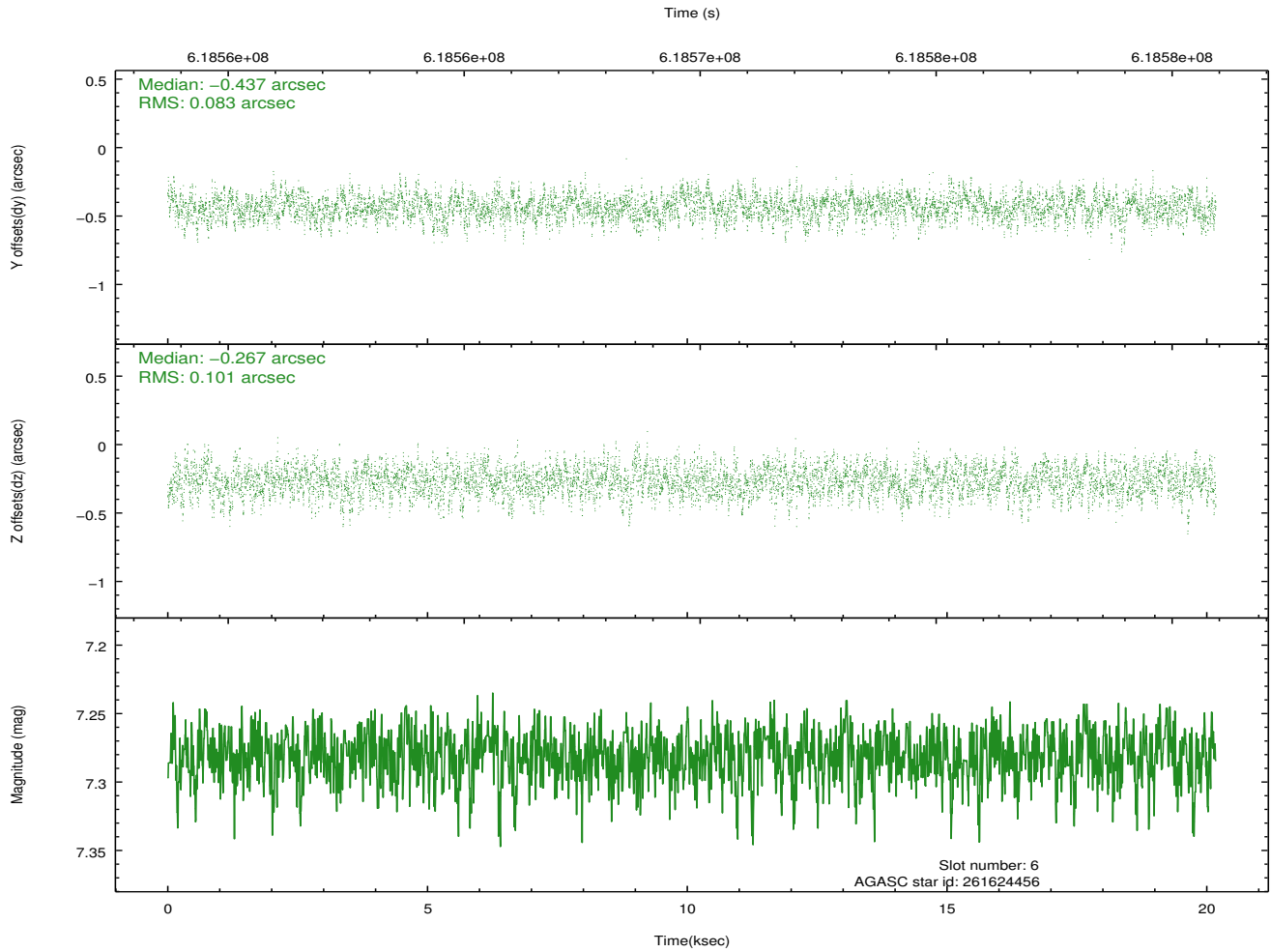
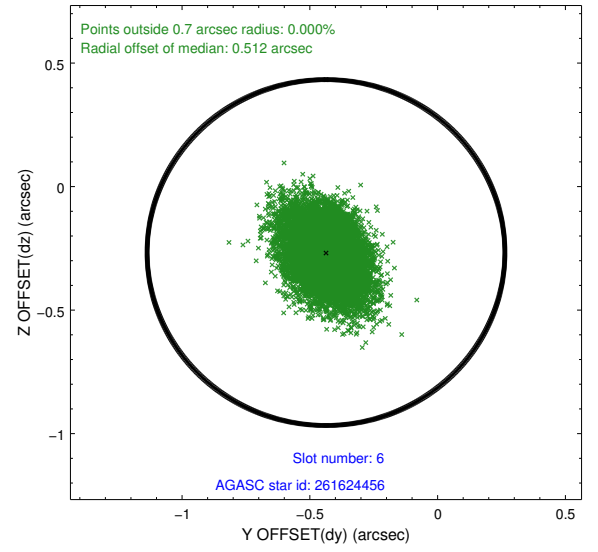
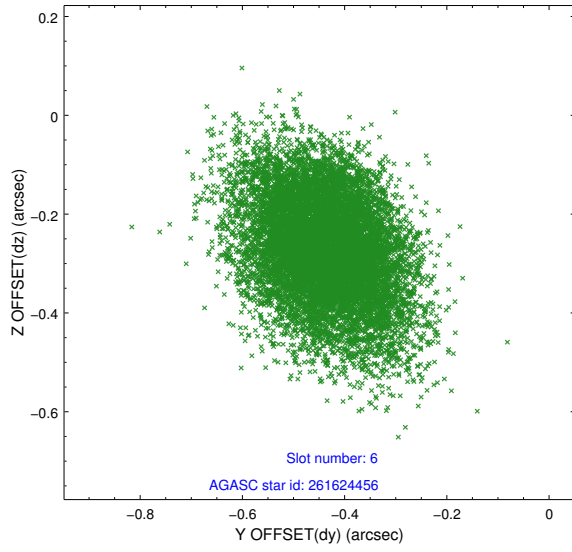
2.4.2 Slot 4



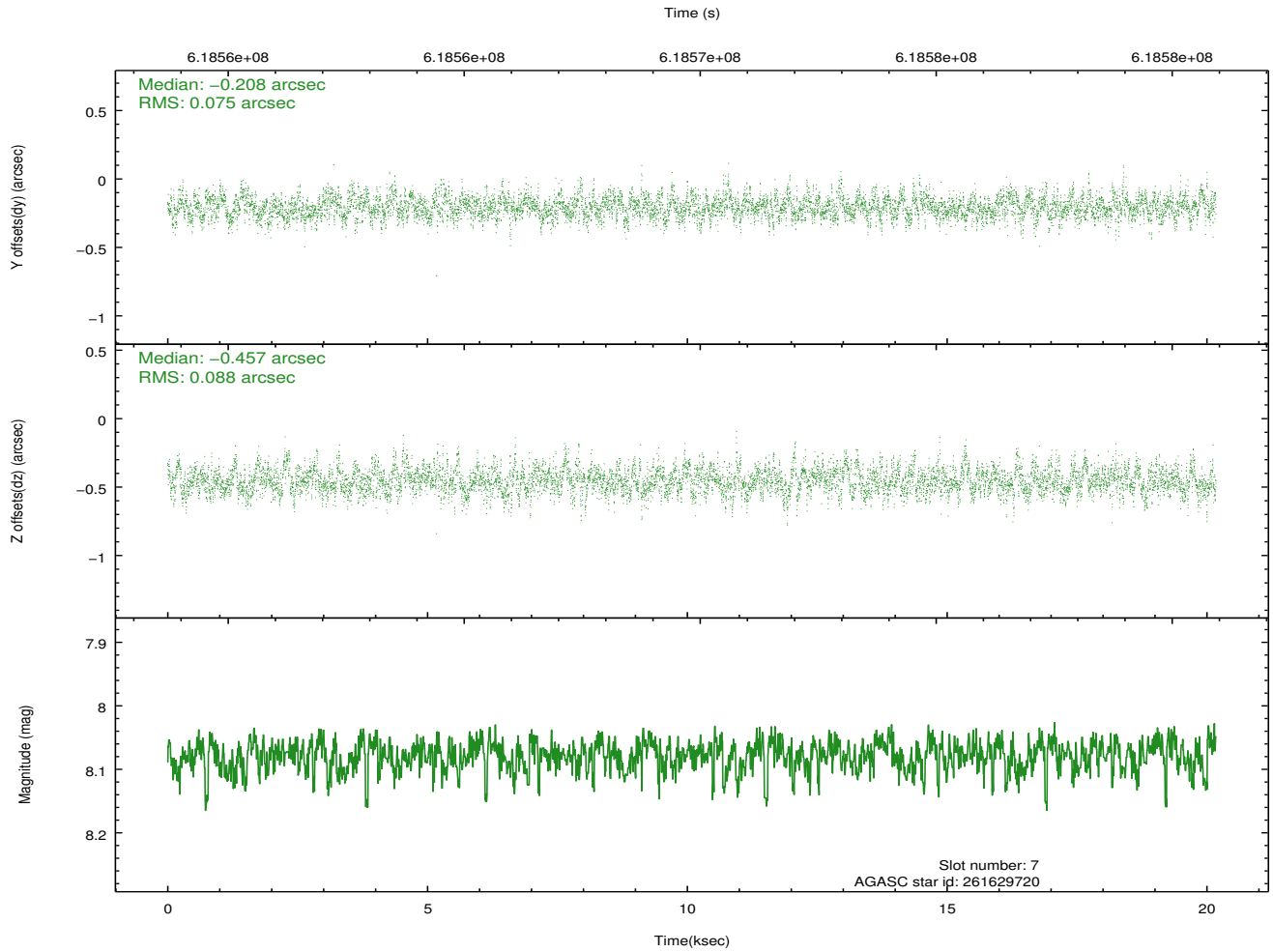
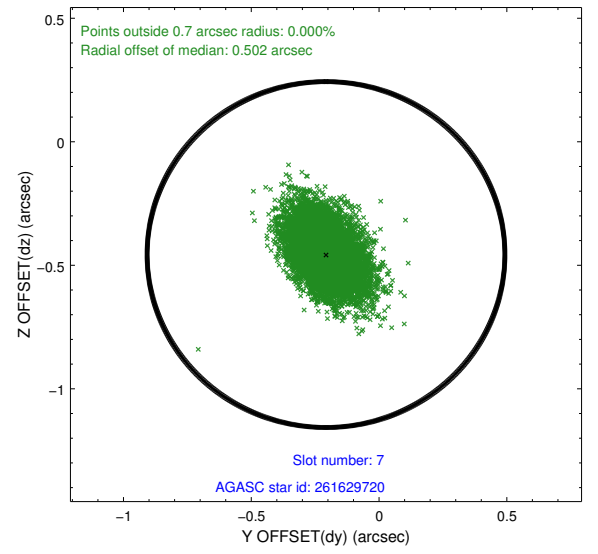
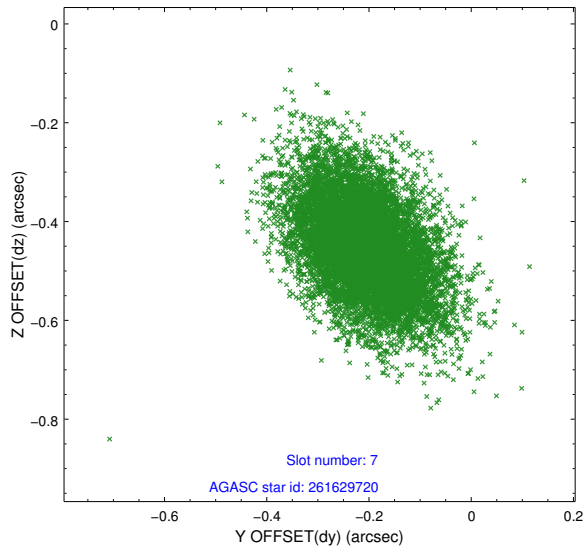
2.4.3 Slot 5



2.4.4 Slot 6

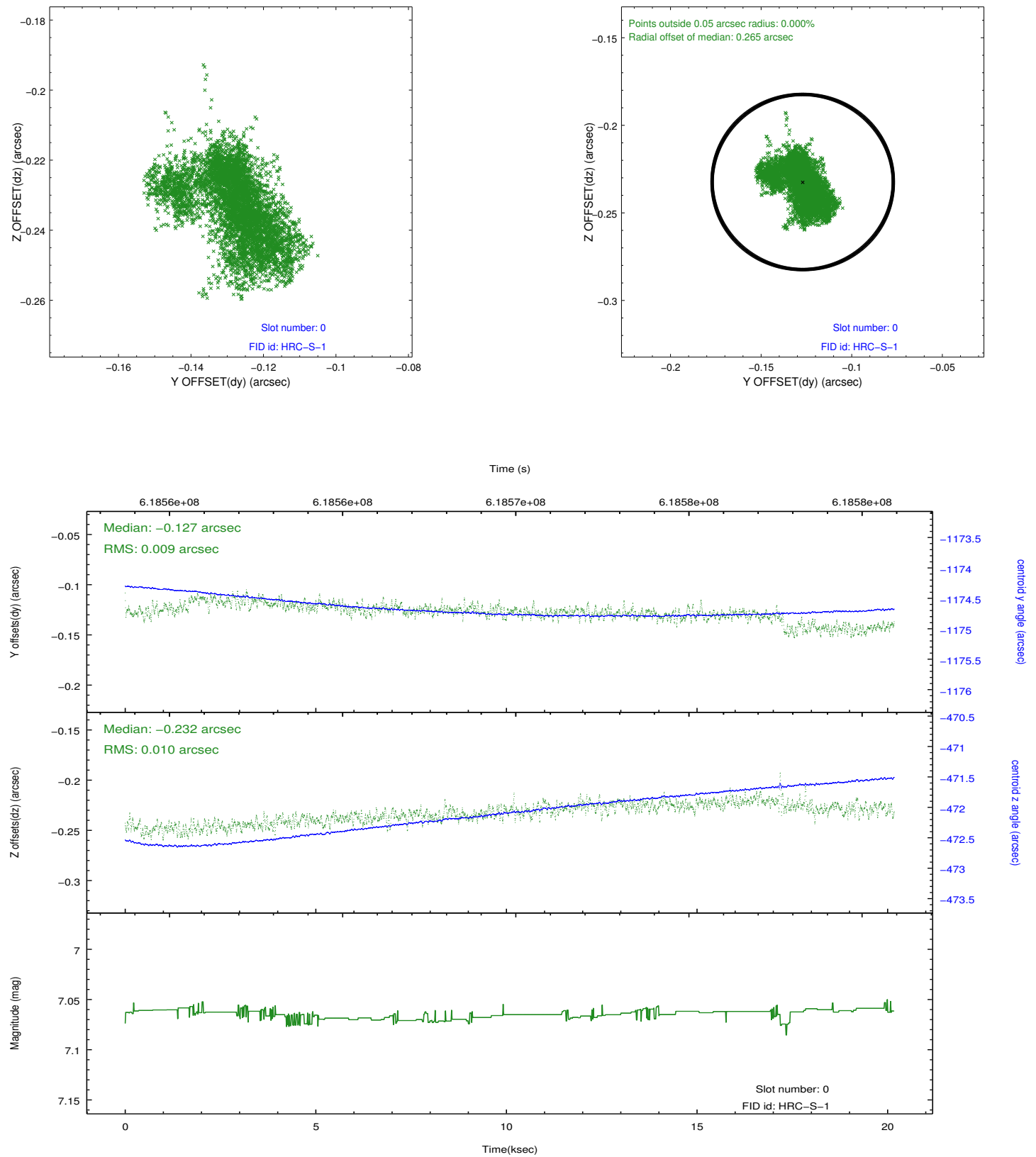


2.4.5 Slot 7

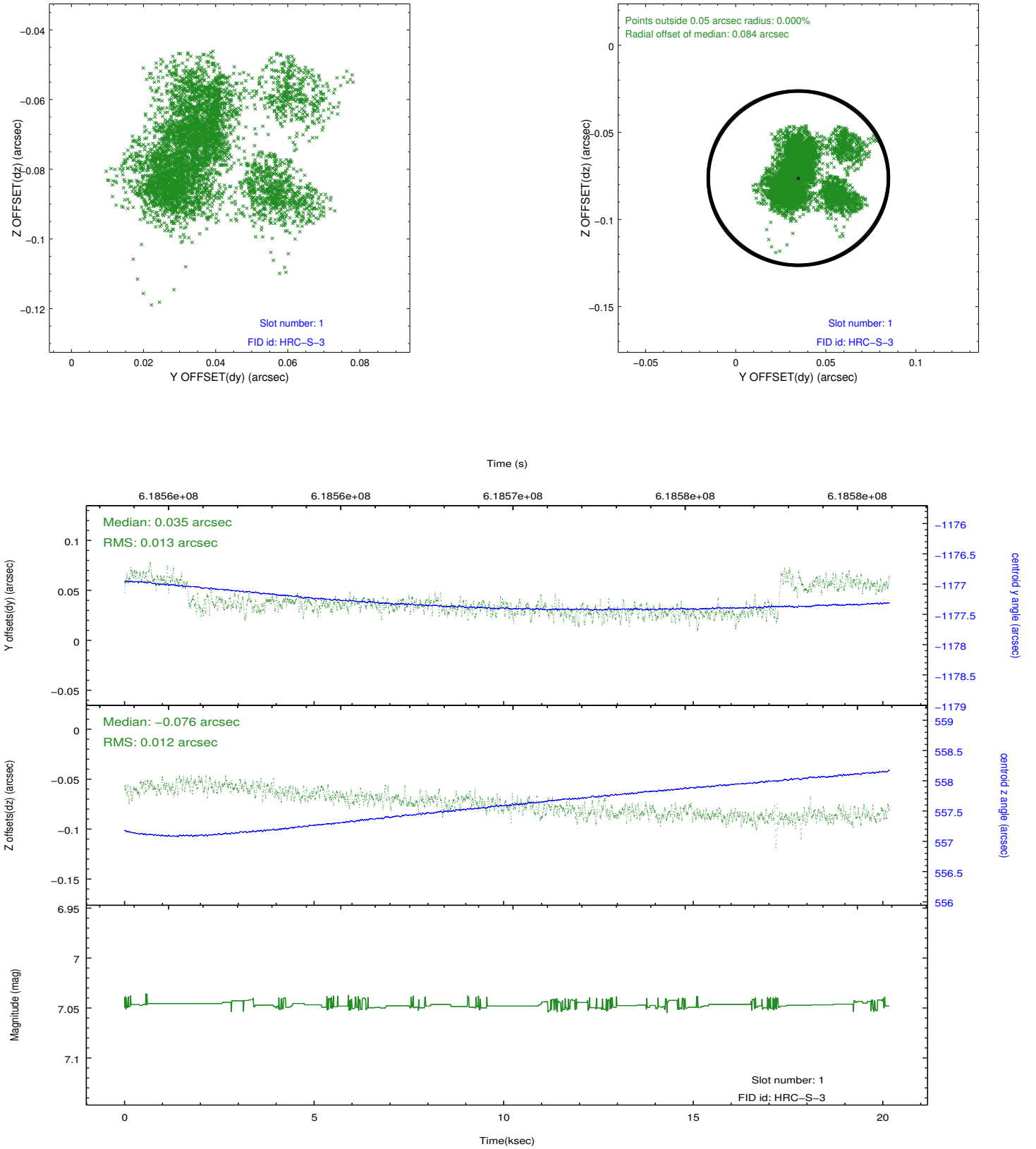


2.5 FID Slots

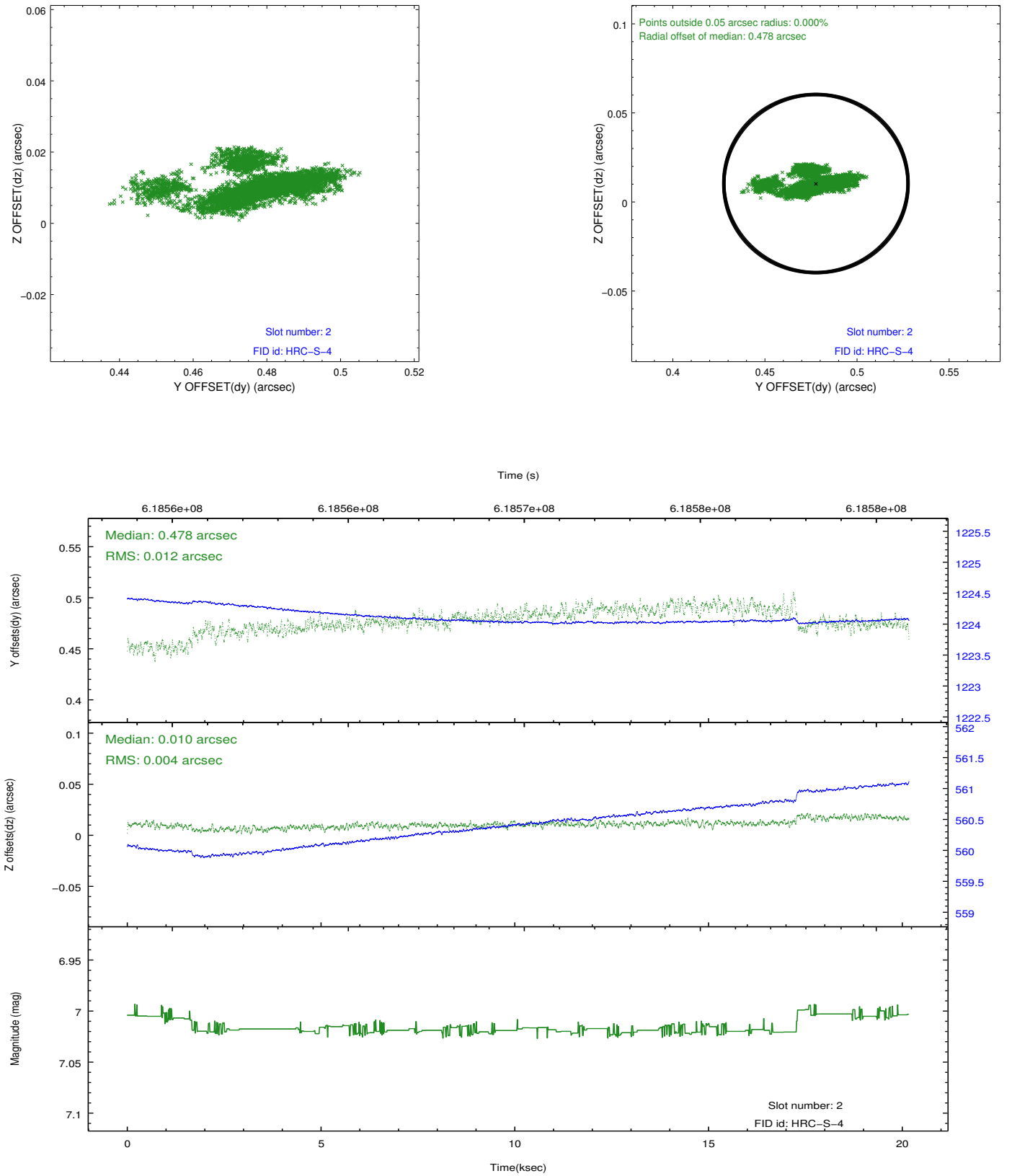
2.5.1 Slot 0



2.5.2 Slot 1

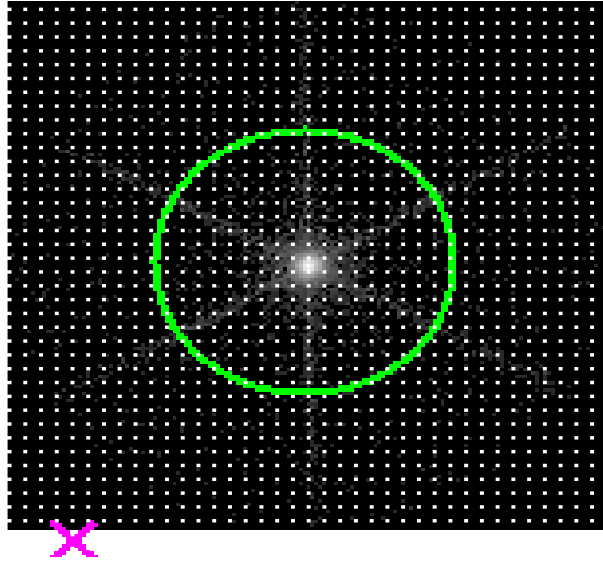


2.5.3 Slot 2

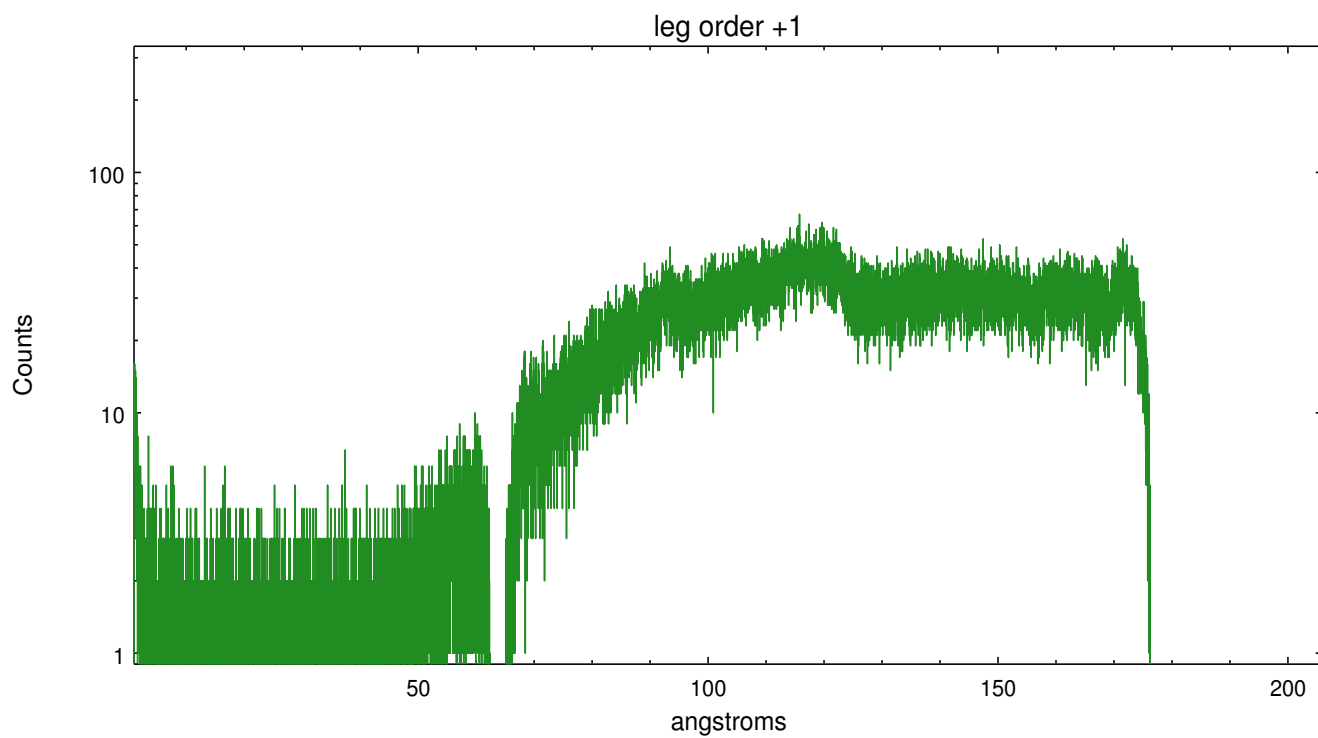
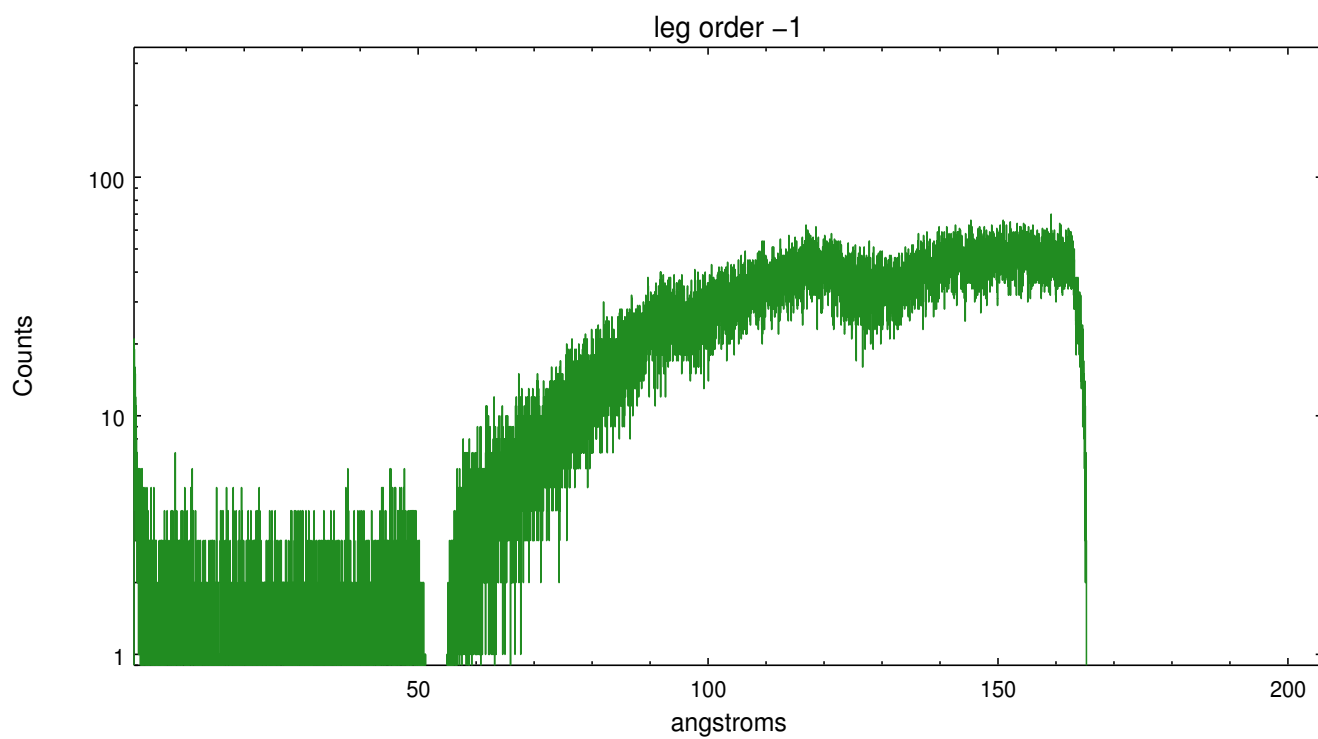


3 Gratings

3.1 LETG Arm



LETG Zero Order



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2017.08.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.175076178432

A.2 Comments