

V&V Reference Report

L2 ASCDS Version : 10.2.1

Observation 16313 - L2 Version 1
Chandra X-Ray Center

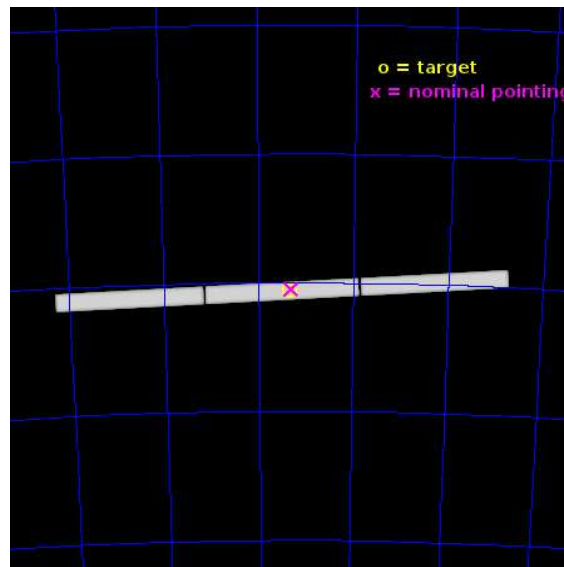
L2 Processing Date : Apr 7 2014

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1 Front

seq_num	300328	Sequence number
obs_id	16313	Observation id
title	The nature of the super-soft X-ray emission of SMC3	Proposal title
observer	Dr. Peter Predehl	Principal investigator
object	SMC3	Source name
ra_targ	12.083333	Observer's specified target RA [deg]
dec_targ	-73.531139	Observer's specified target Dec [deg]
ra_nom	12.066580864194	Nominal RA [deg]
dec_nom	-73.530790726909	Nominal Dec [deg]
roll_nom	176.7233596877	Nominal Roll [deg]
revision	1	Processing version of data
ontime	80184.985675216	[s]
livetime	79676.889565818	Ontime multiplied by DTCOR
l2events	4300055	Number of level 2 events

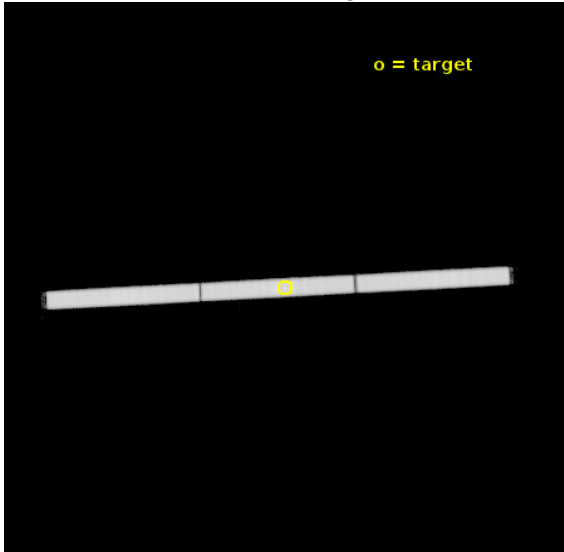


2 OBI

2.1 OBI

2.1.1 Images

Level 1 Image



Level 1 Bad Events



2.1.2 Parameters

obi_num	0	Obi number	sched_exp_time	80000.000000	[s] Scheduled observation exposure time
ascdsver	10.2.1	Processing system revision	ontime	80184.985675216	[s]
caldsver	4.6.1	 	l1events	5676151	Number of level 1 events
date	2014-04-07T23:39:37	Date and time of file creation	tgmethod	TGDETECT	Method used to create src1a file
revision	1	Processing version of data	zo_pos	(32630.45, 32761.91)	src1a sky pixel position

2.1.3 Events

Level 1 Events

	segment 1	segment 2	segment 3
level 1 events	1914373	1864162	1897616
rejected events	15025	13637	14333
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	12.154570	12.06658086419425			
[deg] Pointing Dec	-73.516625	-73.53079072690922			
[deg] Pointing Roll	176.740411	176.7233596877026			
[s] Window start time (MET)	510624067.184000	510624067.184000			
[s] Window stop time (MET)	514166467.184000	514166467.184000			
[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)	513198297.184000	513197451.36204			
Observation start date	2014-04-06T19:03:50	2014-04-06T18:50:51			
[s] Observation end time (MET)	513278297.184000	513279077.24154			
Observation end date	2014-04-07T17:17:10	2014-04-07T17:31:17			

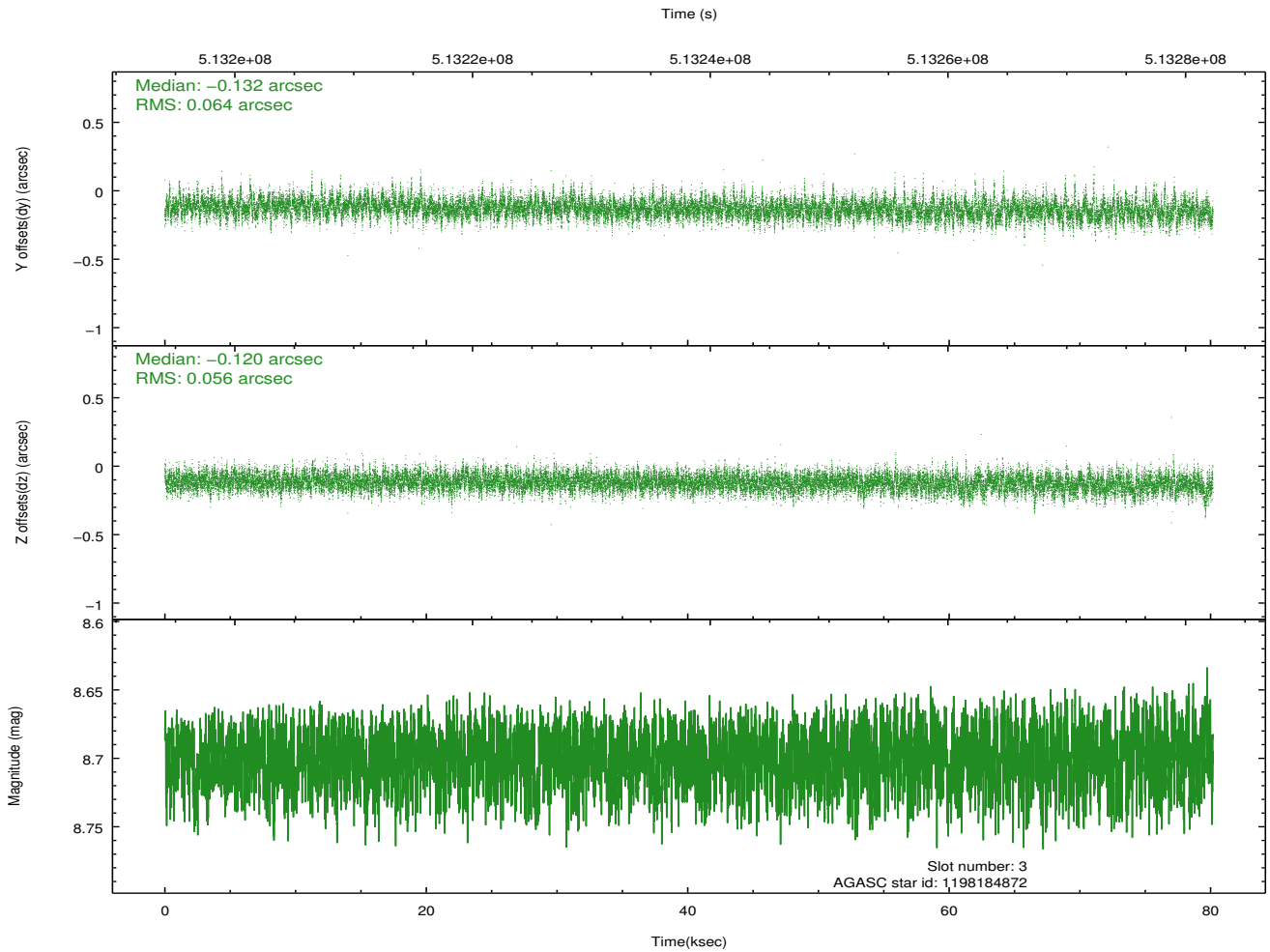
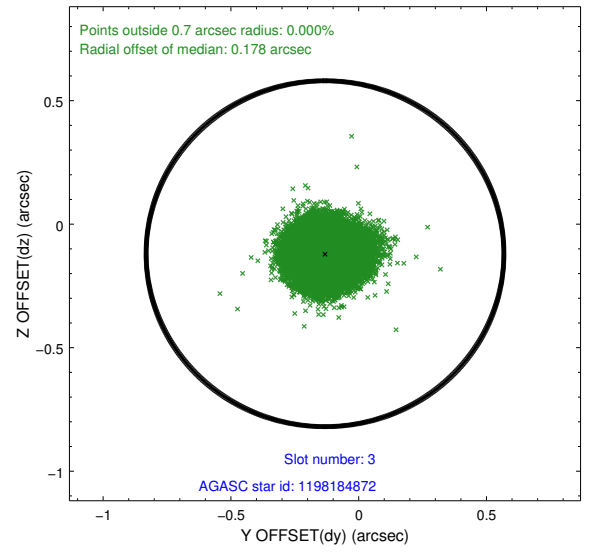
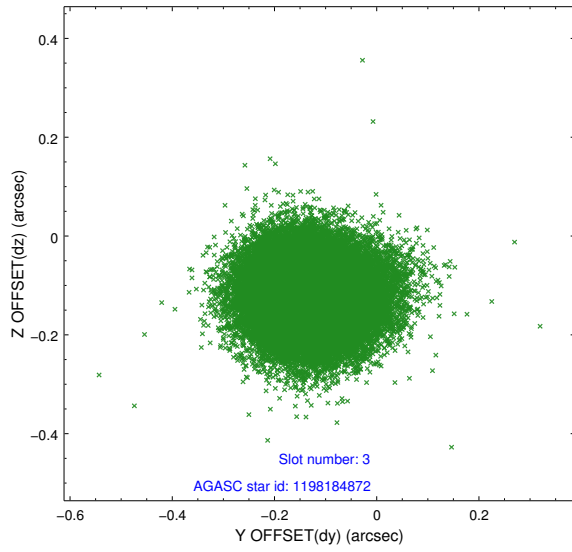
2.3 Aspect

Slot Statistics

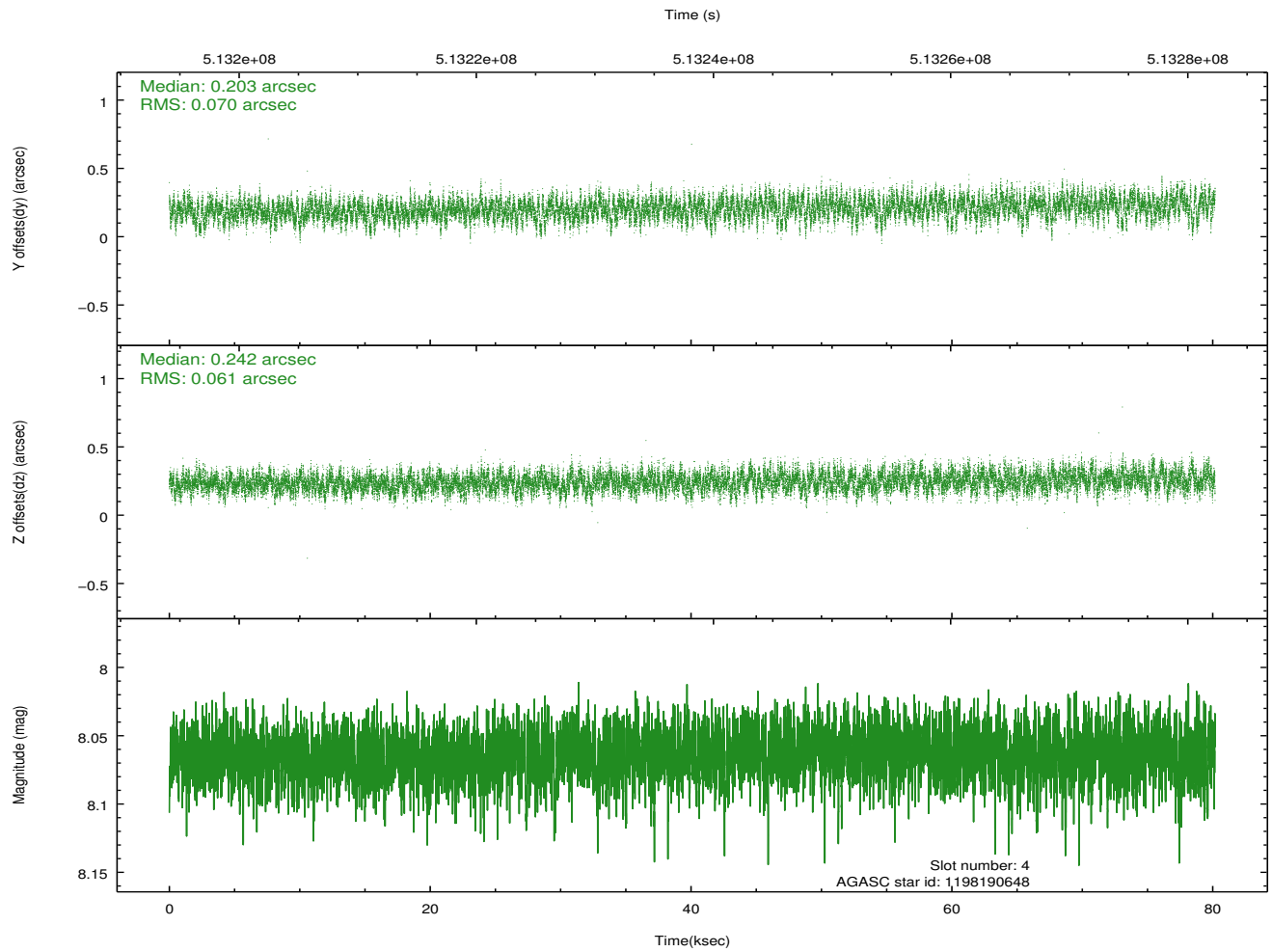
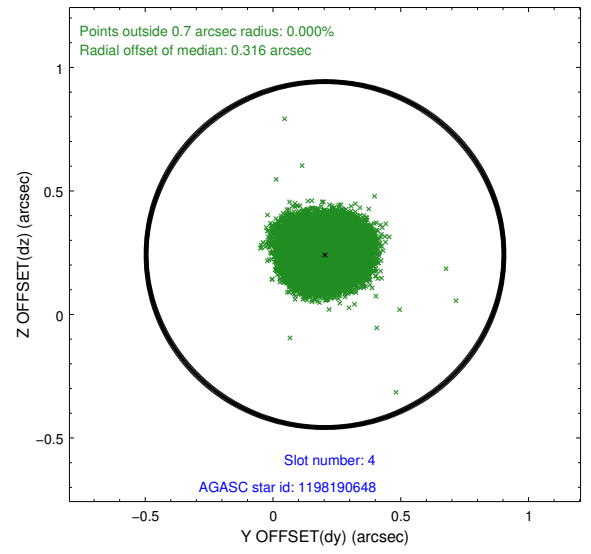
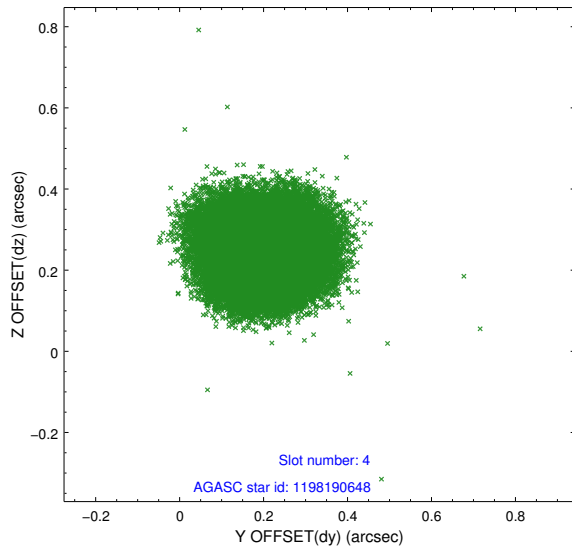
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-S-1	7.05	19557	0.000	-0.148	0.045	0.076	0.000000	0.000000	-1180.37	-469.76
1	FID	HRC-S-2	7.02	19558	0.332	-0.128	0.039	0.054	0.000000	0.000000	1219.58	-462.30
2	FID	HRC-S-3	7.04	19557	0.065	-0.023	0.042	0.062	0.000000	0.000000	-1183.01	559.88
3	GUIDE	1198184872	8.70	39102	-0.132	-0.120	0.089	0.148	10.002911	-73.761835	2109.56	1043.60
4	GUIDE	1198190648	8.06	39106	0.203	0.242	0.099	0.160	12.344115	-73.478663	-185.52	-146.42
5	GUIDE	1198190664	9.22	39093	0.240	-0.088	0.137	0.228	14.057016	-73.825958	-1969.38	1034.45
6	GUIDE	1198191824	9.33	39087	0.052	0.235	0.174	0.288	11.519918	-73.478175	656.48	-97.50
7	GUIDE	1198138016	9.09	39097	-0.364	-0.270	0.133	0.221	9.610687	-73.994335	2419.62	1914.25

2.4 Star Slots

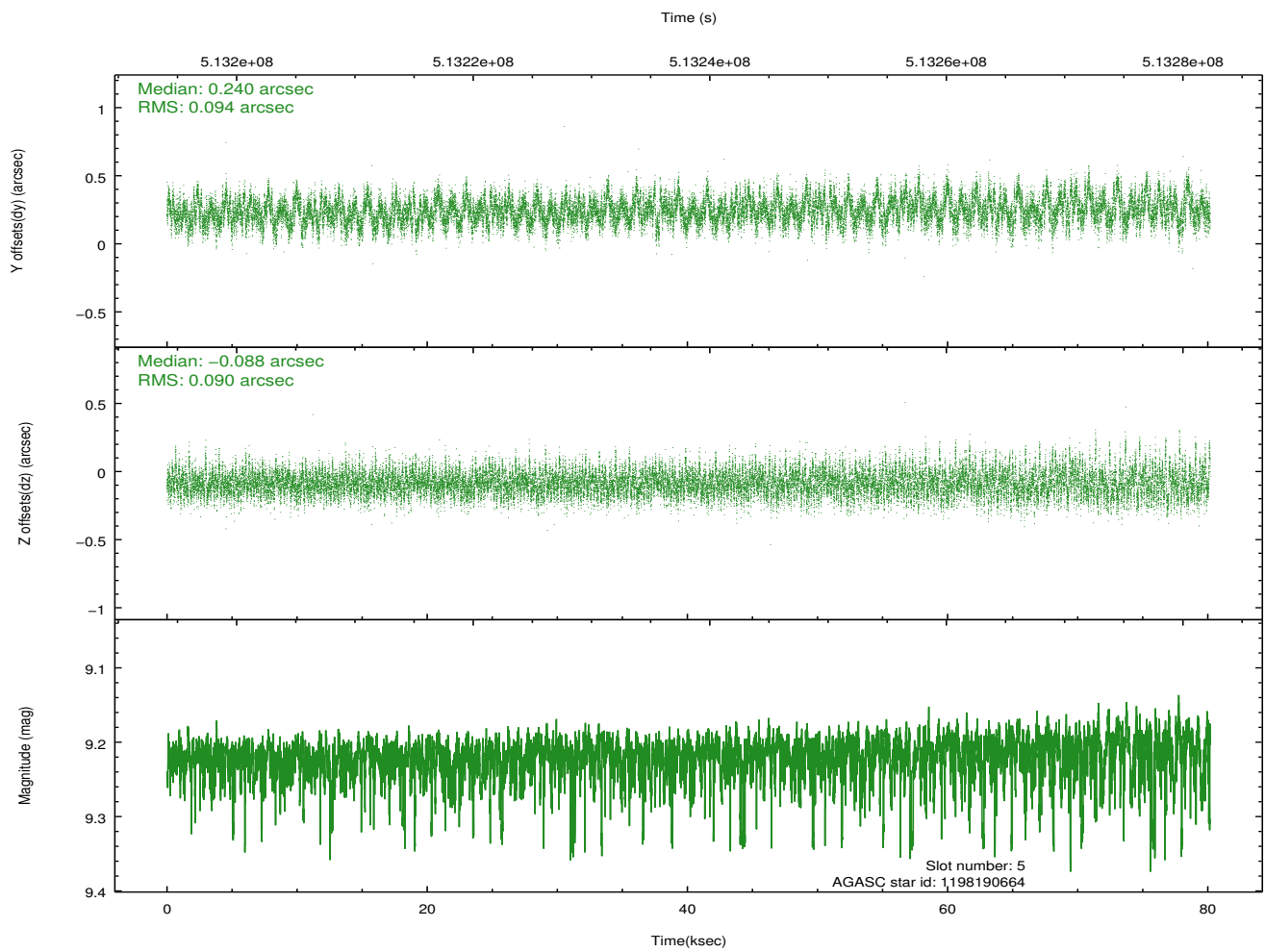
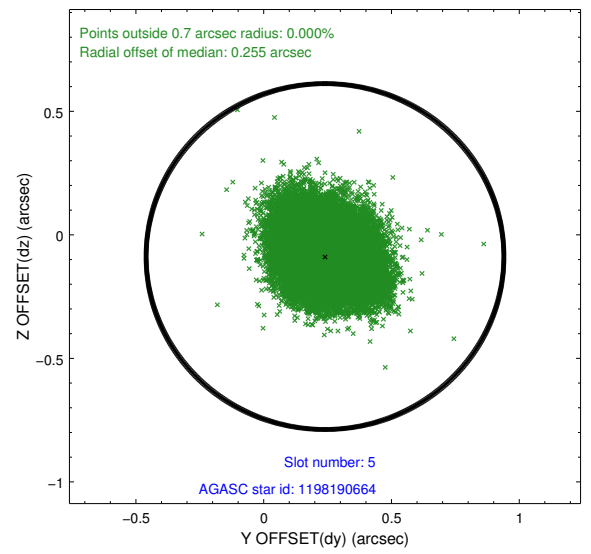
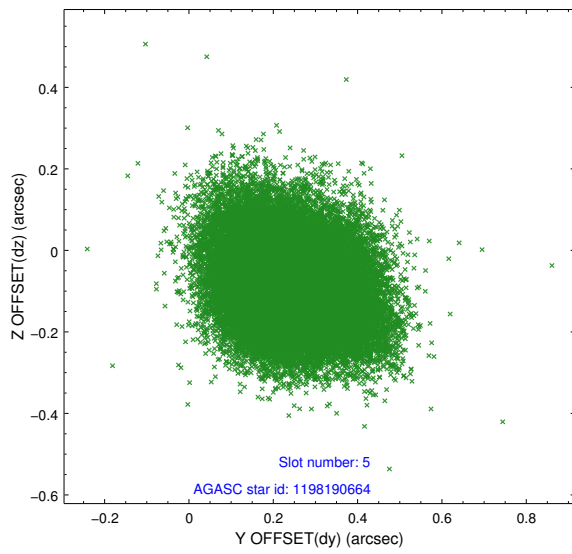
2.4.1 Slot 3



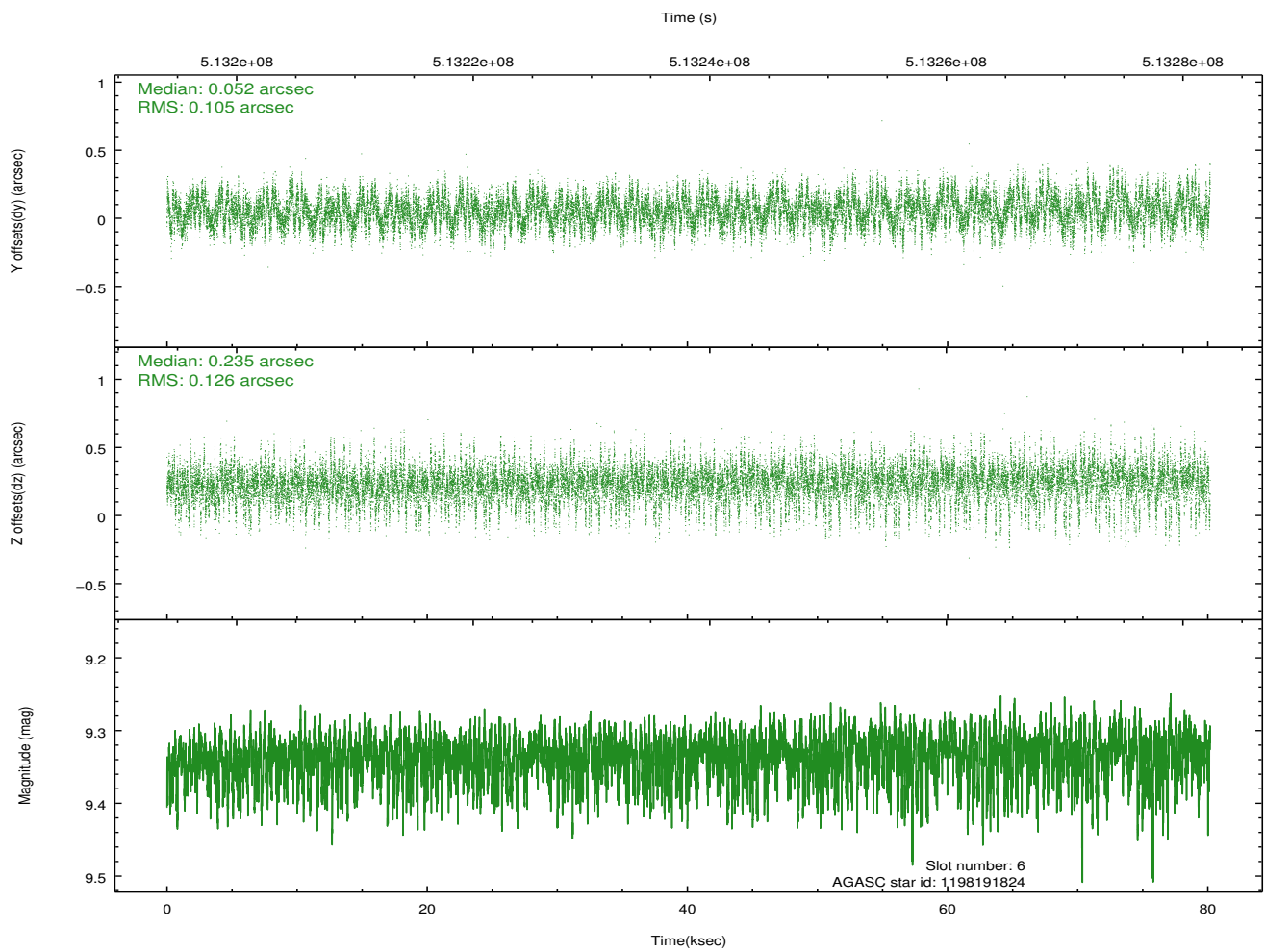
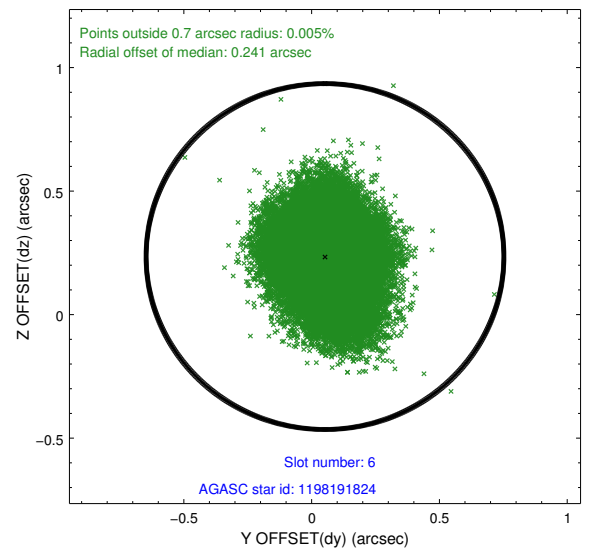
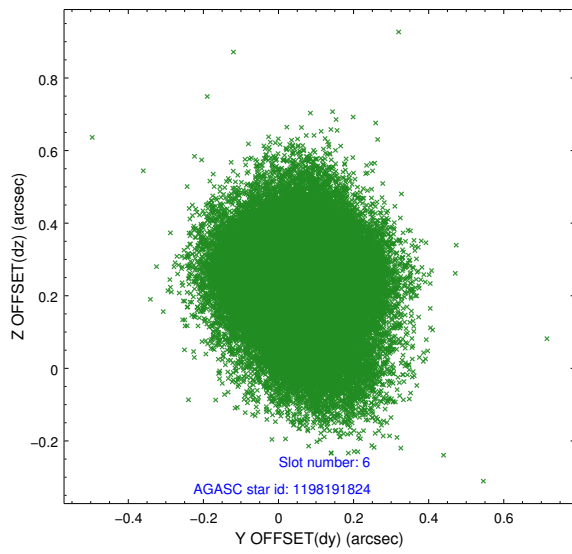
2.4.2 Slot 4



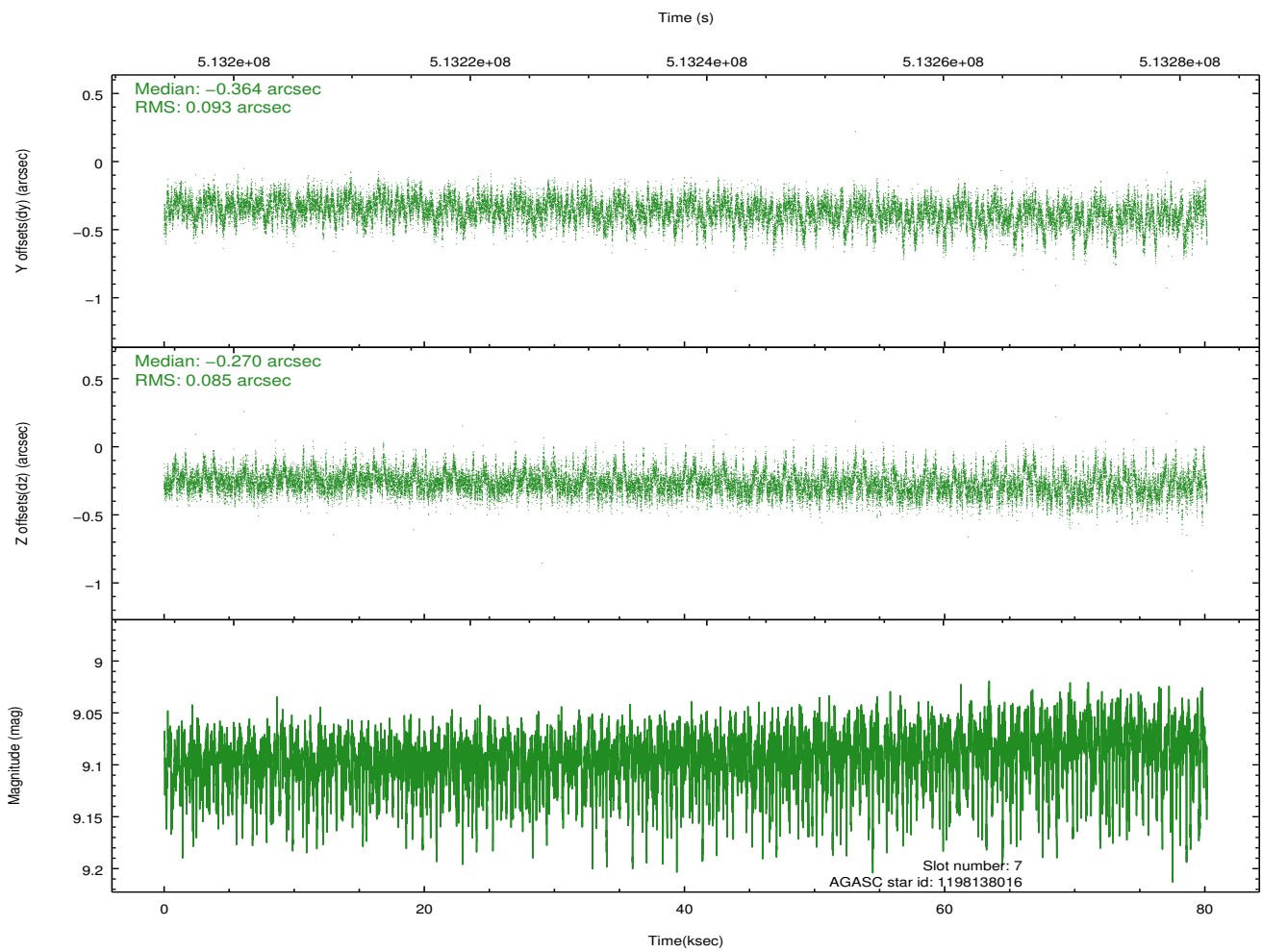
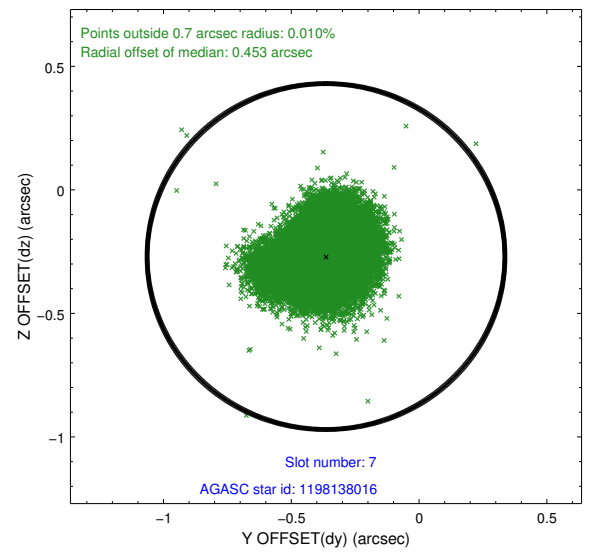
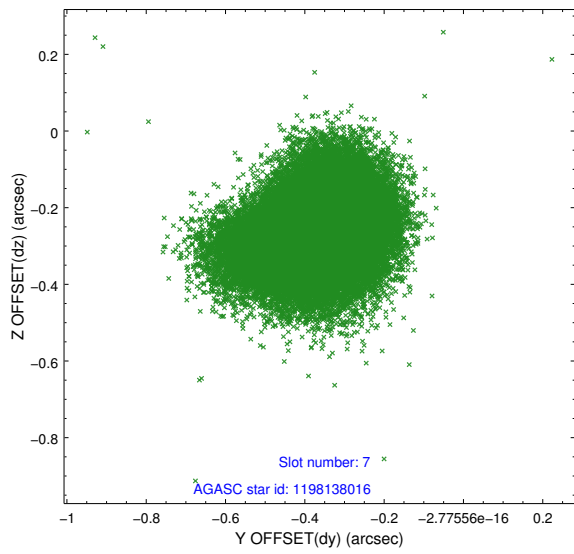
2.4.3 Slot 5



2.4.4 Slot 6

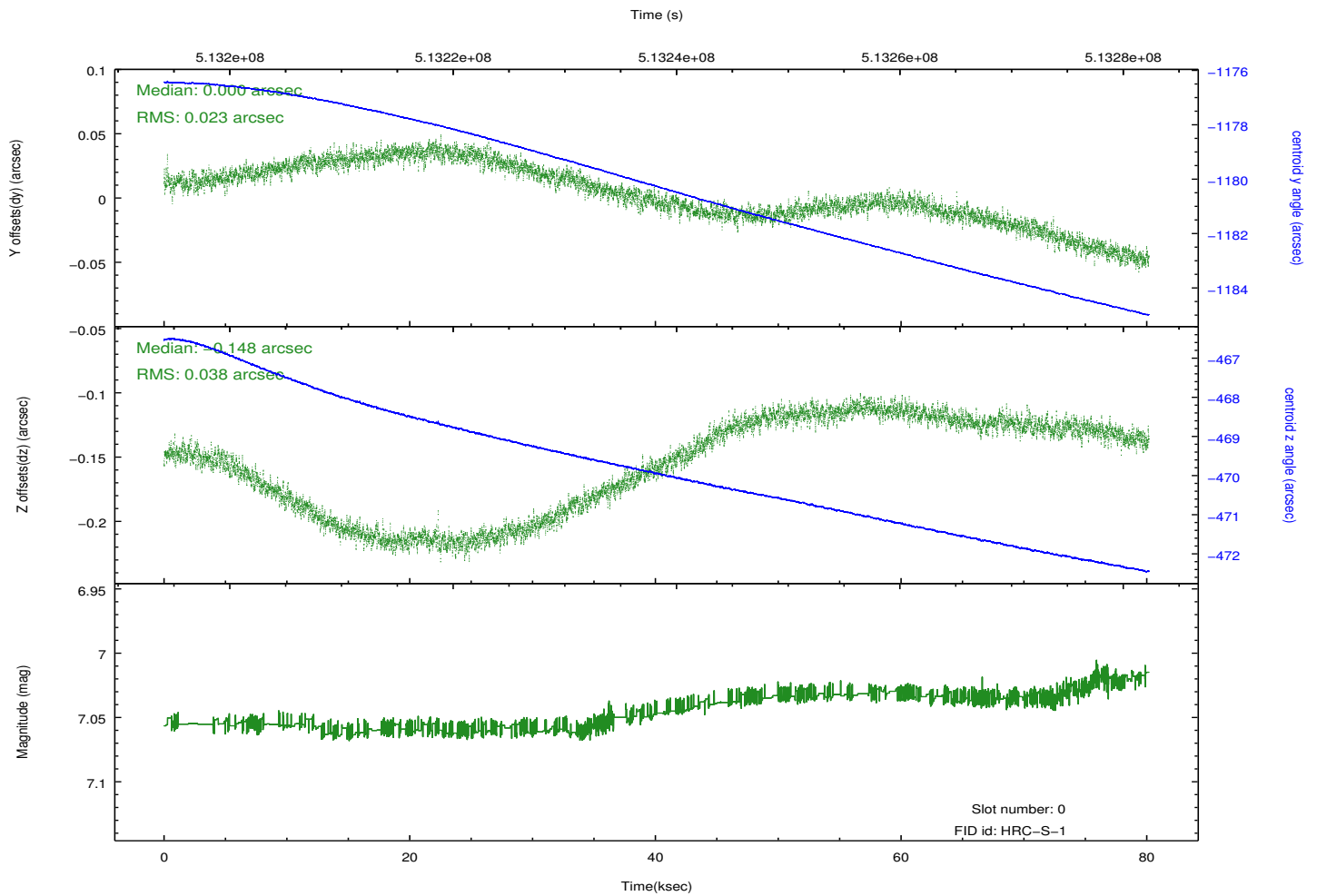
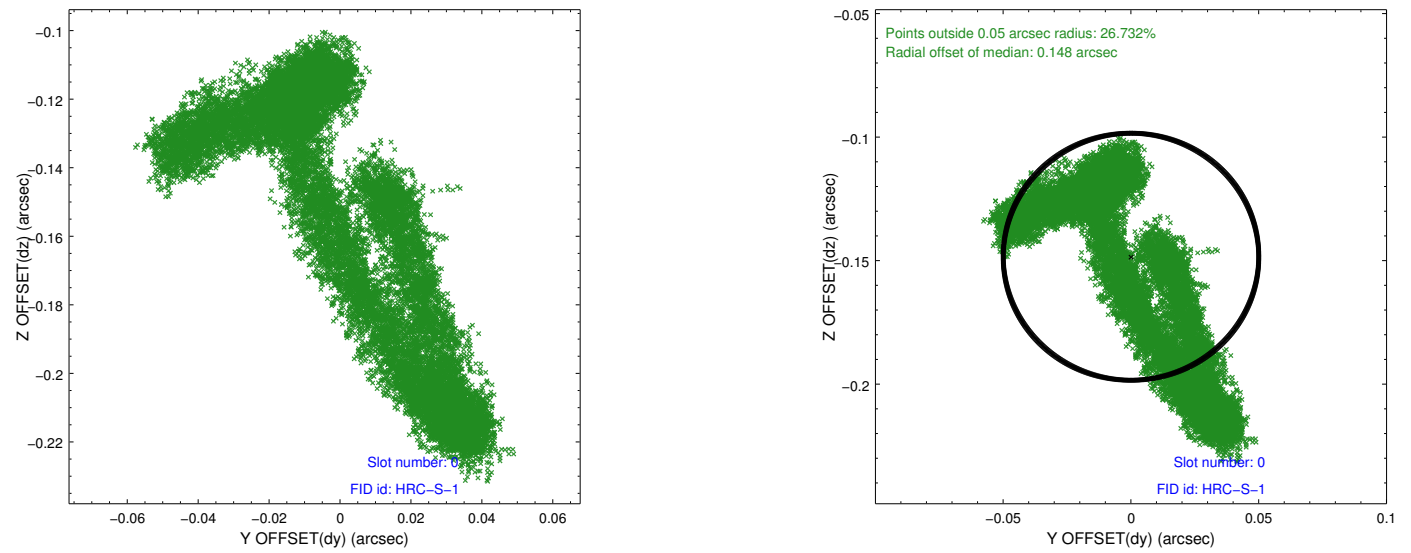


2.4.5 Slot 7

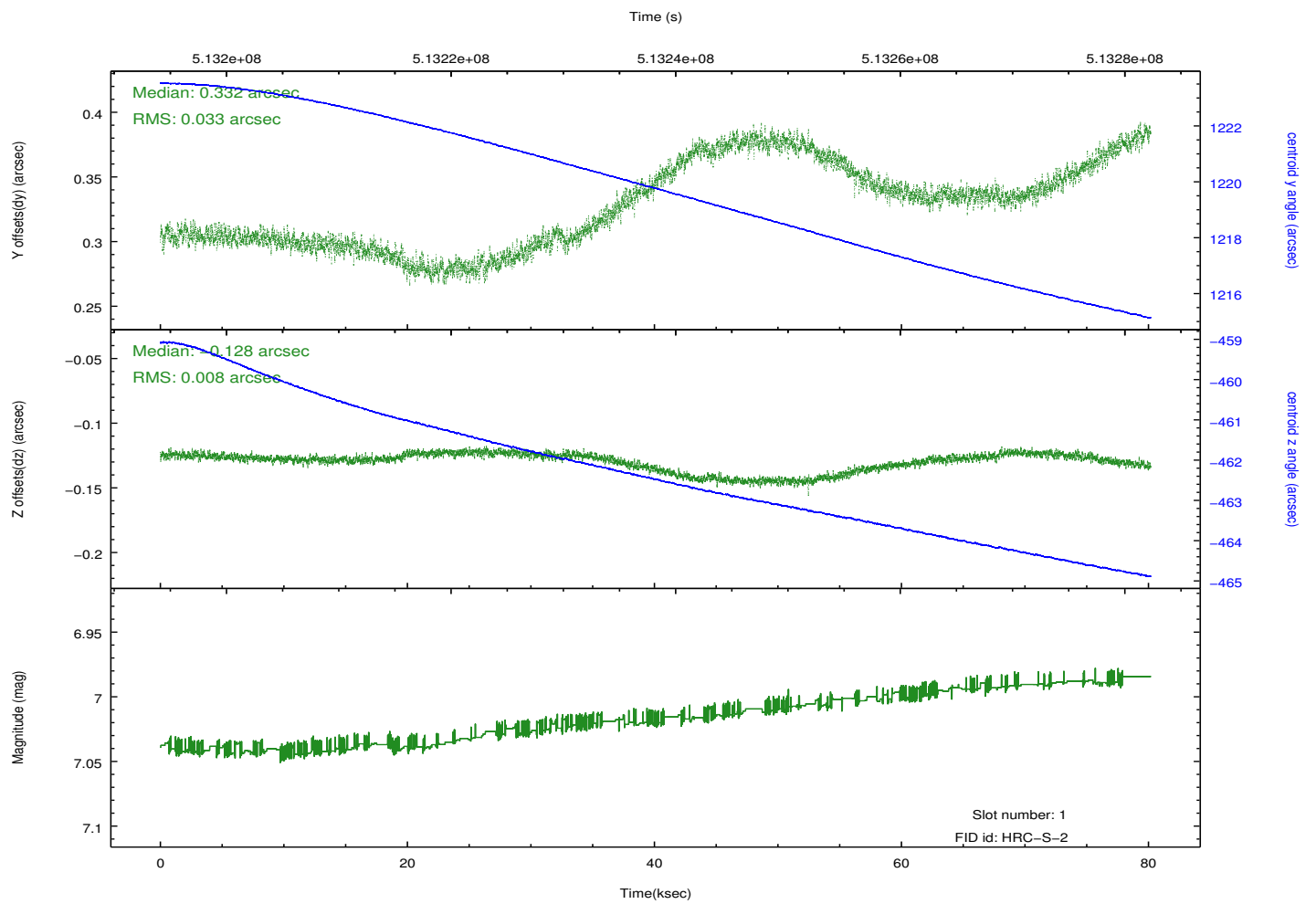
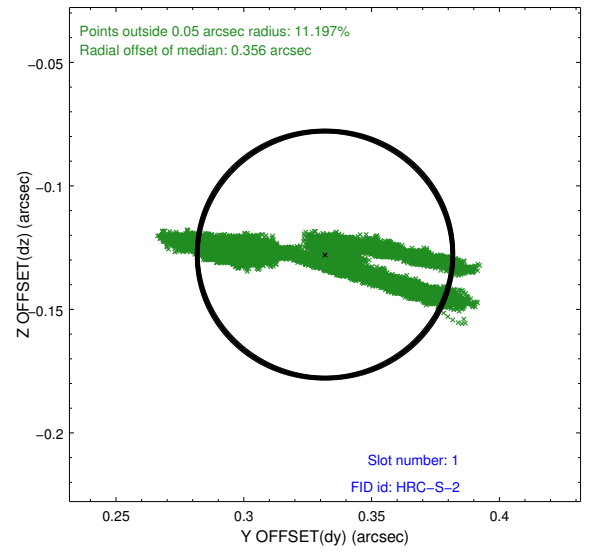
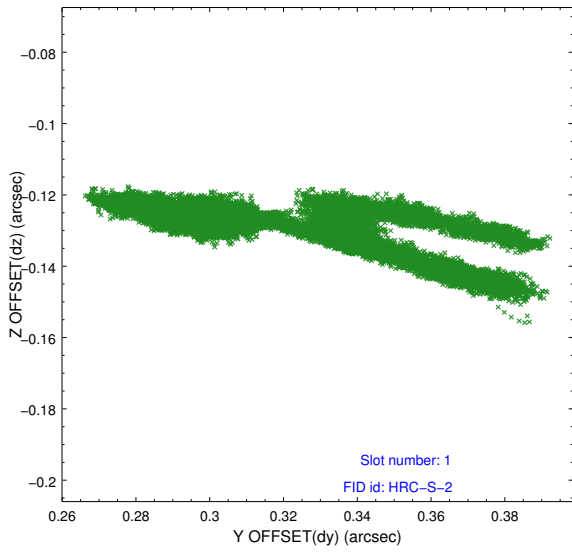


2.5 FID Slots

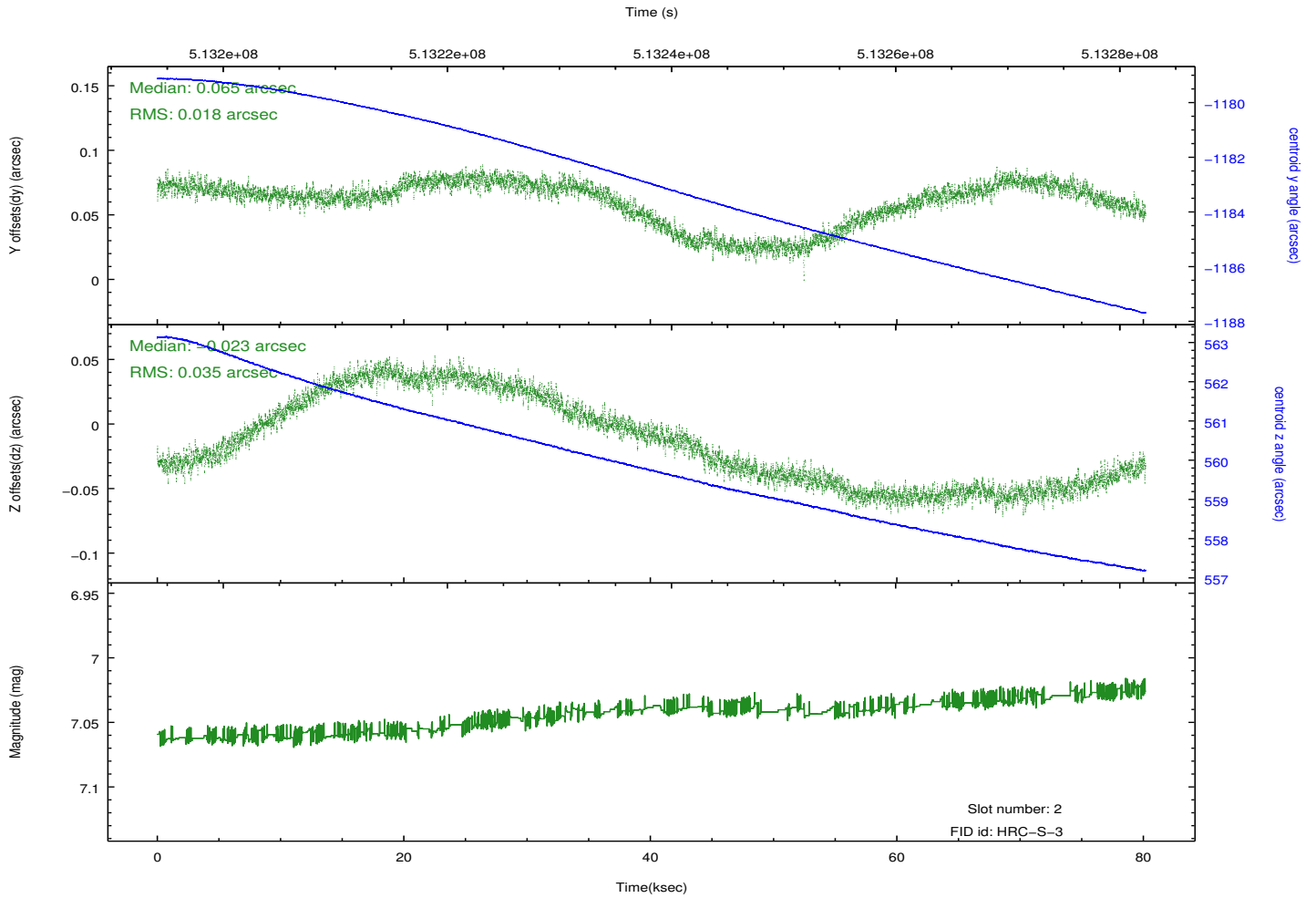
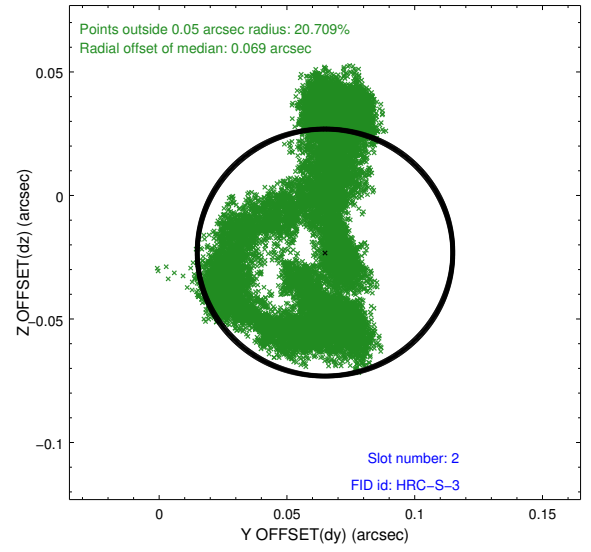
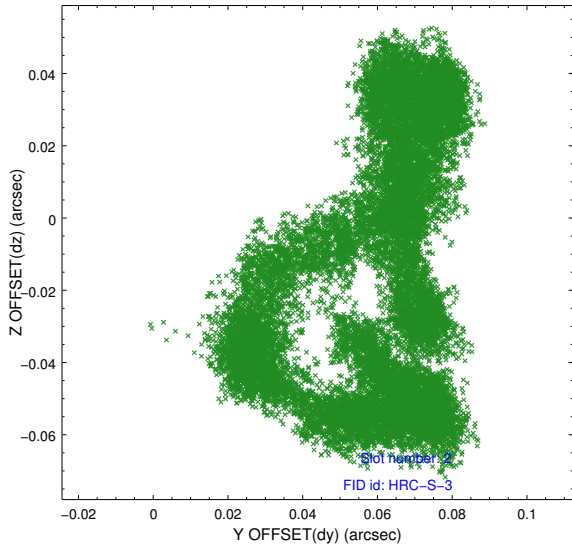
2.5.1 Slot 0



2.5.2 Slot 1

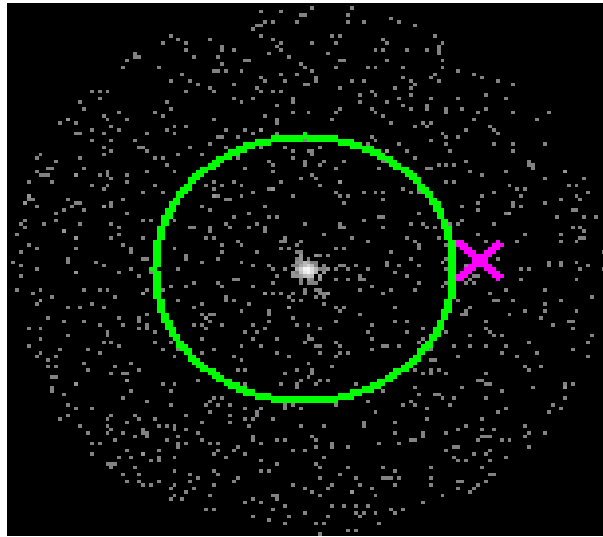


2.5.3 Slot 2

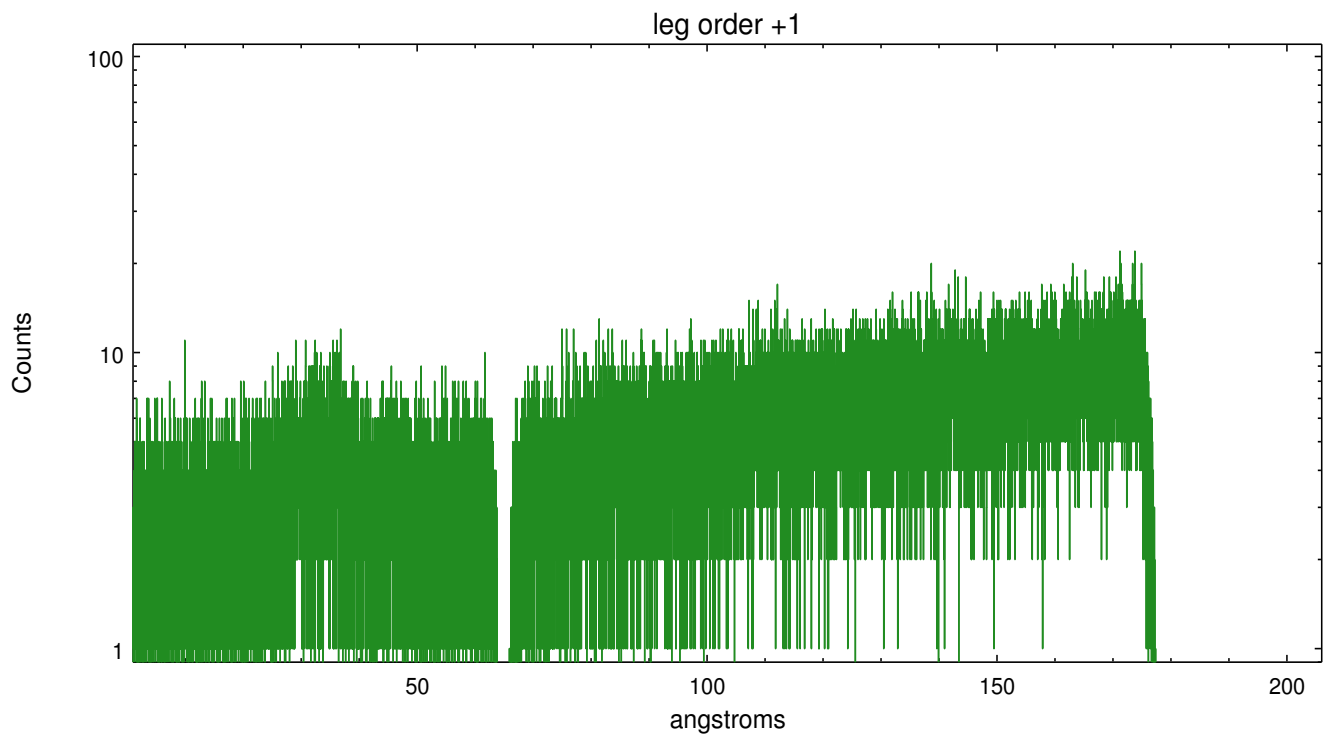
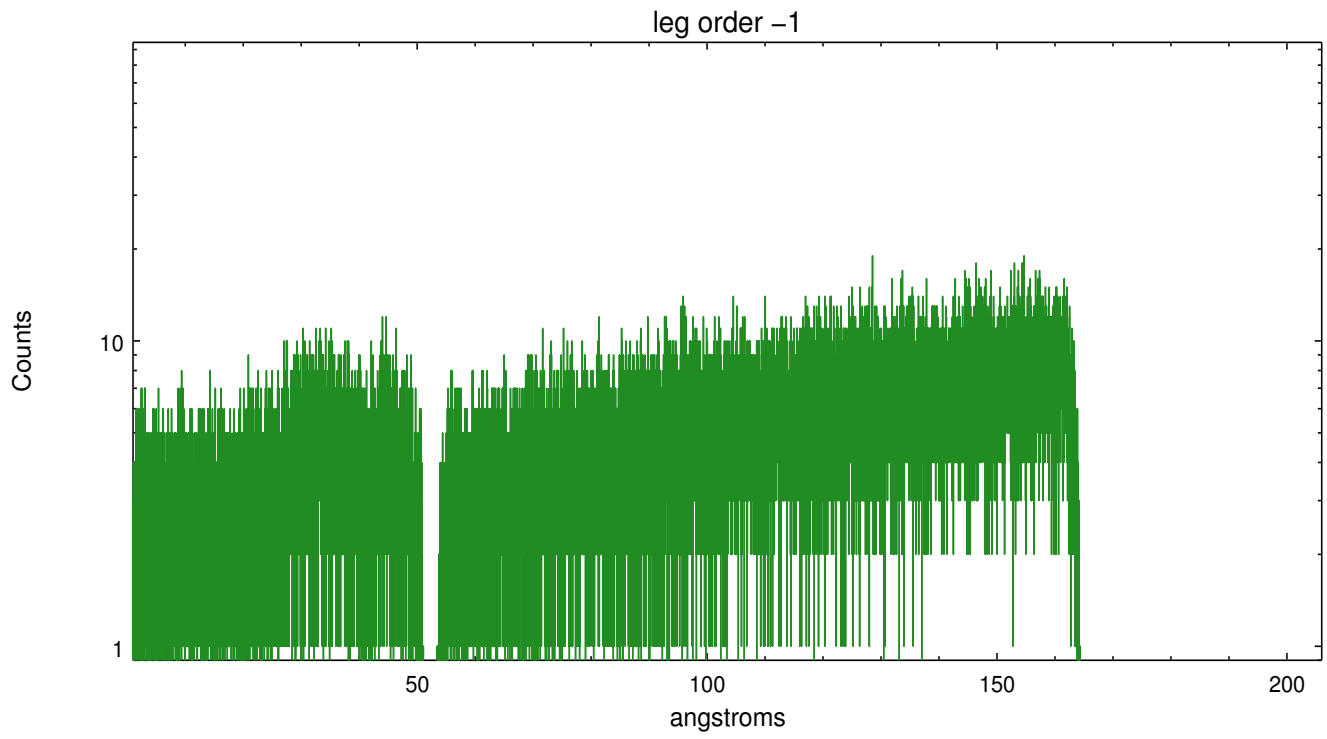


3 Gratings

3.1 LETG Arm



LETG Zero Order



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2014.04.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	80.184985675216

A.2 Comments

Source is slightly extended with non-uniform X-ray flux in the core.
The user may want to extract the spectrum using a different zeroth order
position to center on the area of interest.

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The SIM dy drift of 7.565 arcsec is acceptable for this 80ks
observation.