

V&V Reference Report

L2 ASCDS Version : 7.6.7.1

Observation 4515 - L2 Version 001
Chandra X-Ray Center

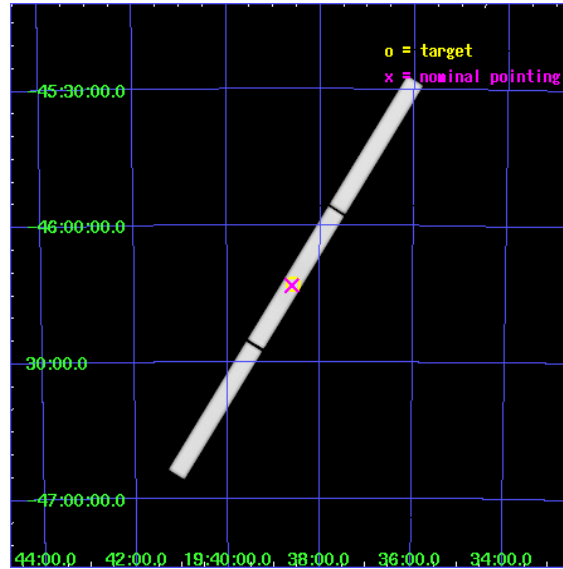
L2 Processing Date : Apr 19 2006

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1 Front

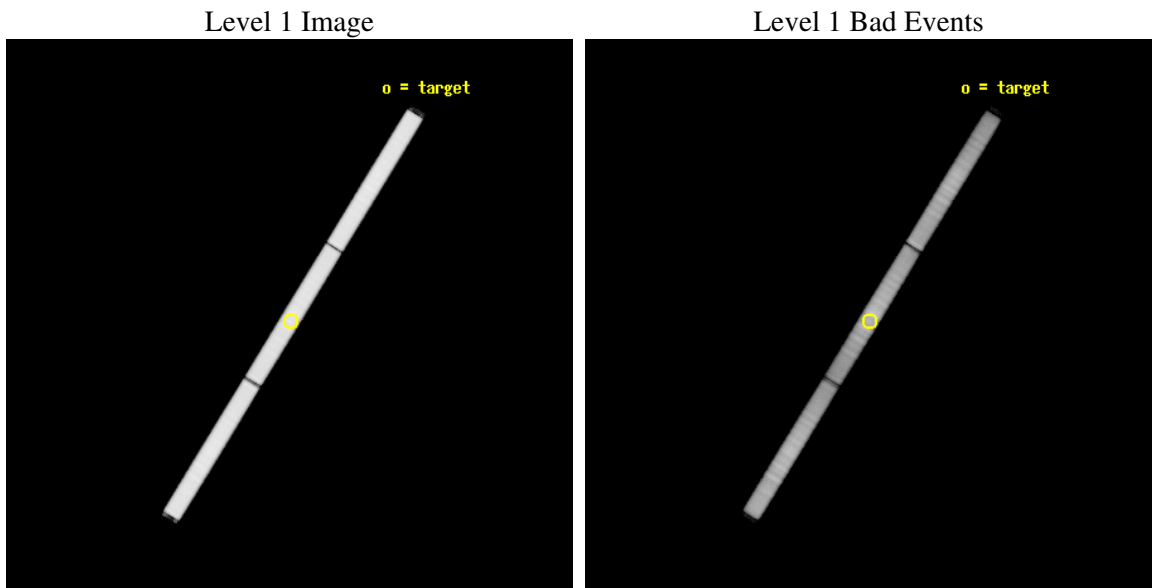
seq_num	300109
obs_id	4515
title	Chandra Soft X-ray Spectroscopy of QS Tel
observer	Dr. Christopher Mauche
object	QS Tel
ra_targ	294.64875
dec_targ	-46.215694
ra_nom	294.65215227765
dec_nom	-46.219735344496
roll_nom	301.55673104246
revision	2
ontime	83739.428731471
livetime	83034.940381315
l2events	5390078



2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Parameters

obi_num	0
ascdsver	7.6.7.1
caldbver	3.2.1
date	2006-04-19T05:37:27
revision	2

sched_exp_time	83182.632000
ontime	83739.428731471
l1events	7580526

2.1.3 Events

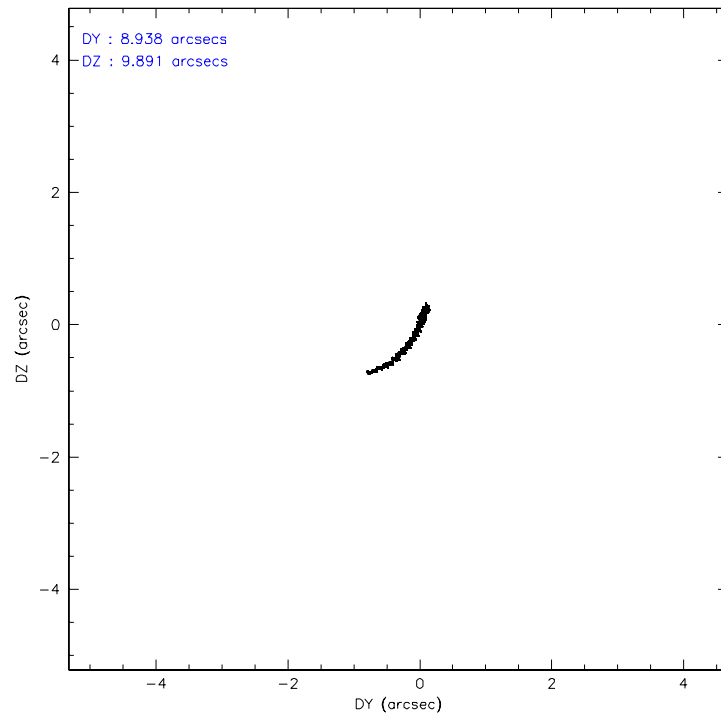
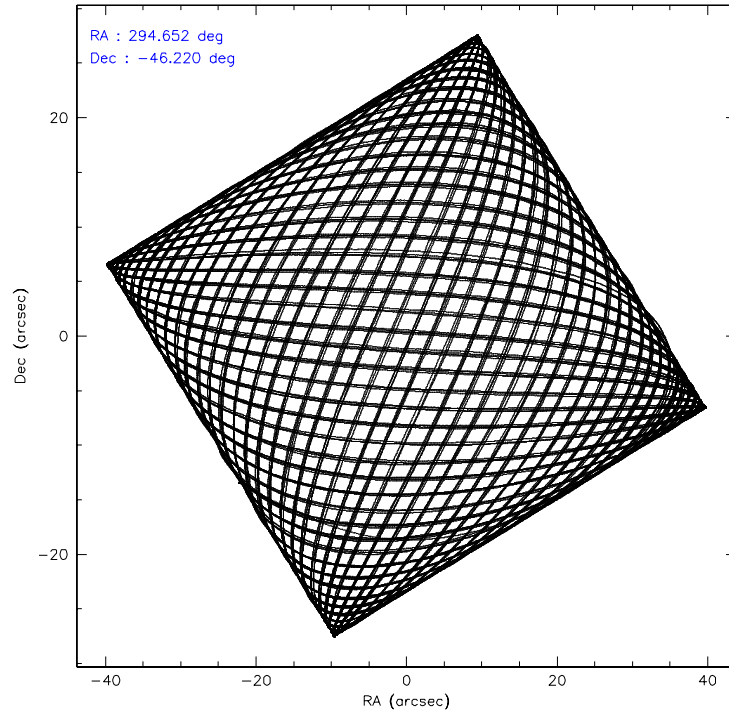
Level 1 Events

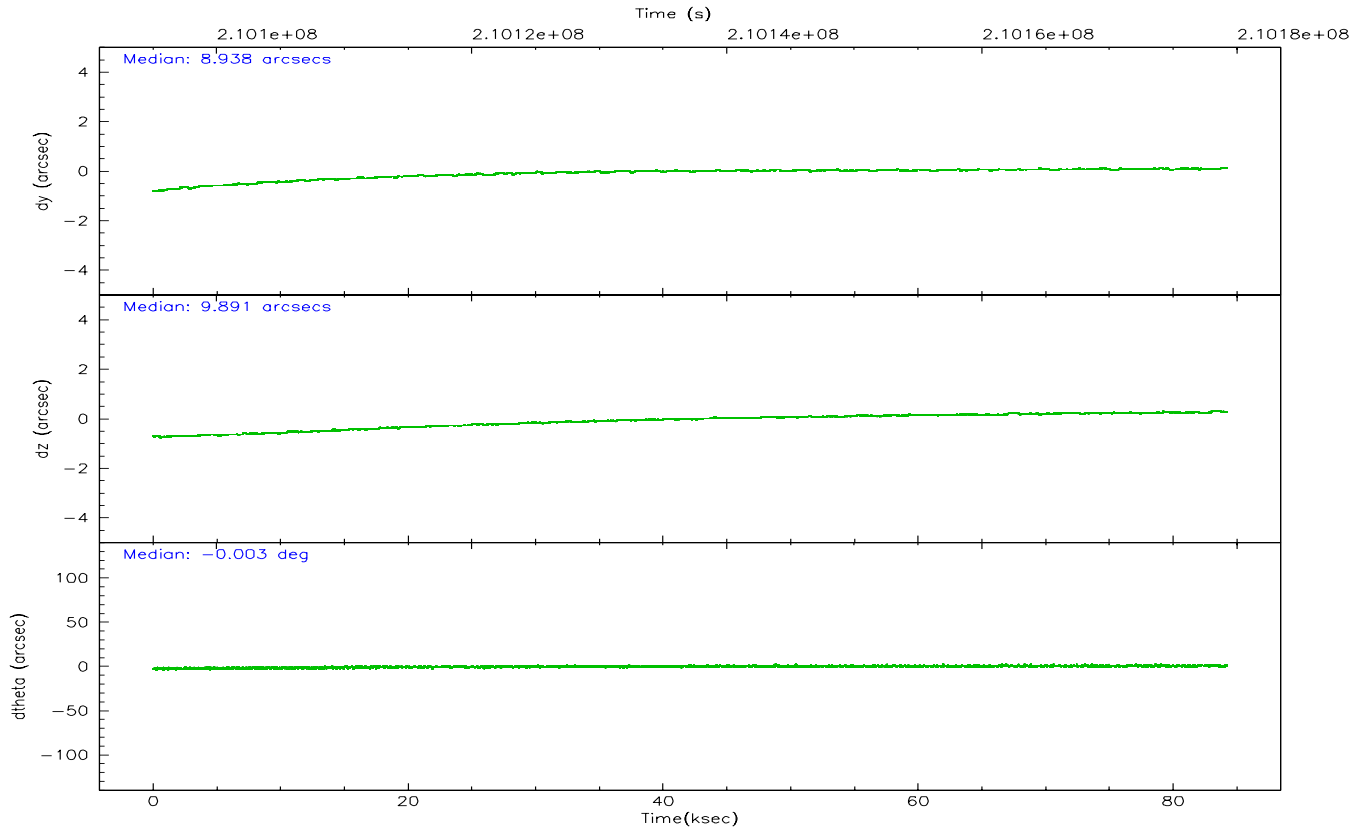
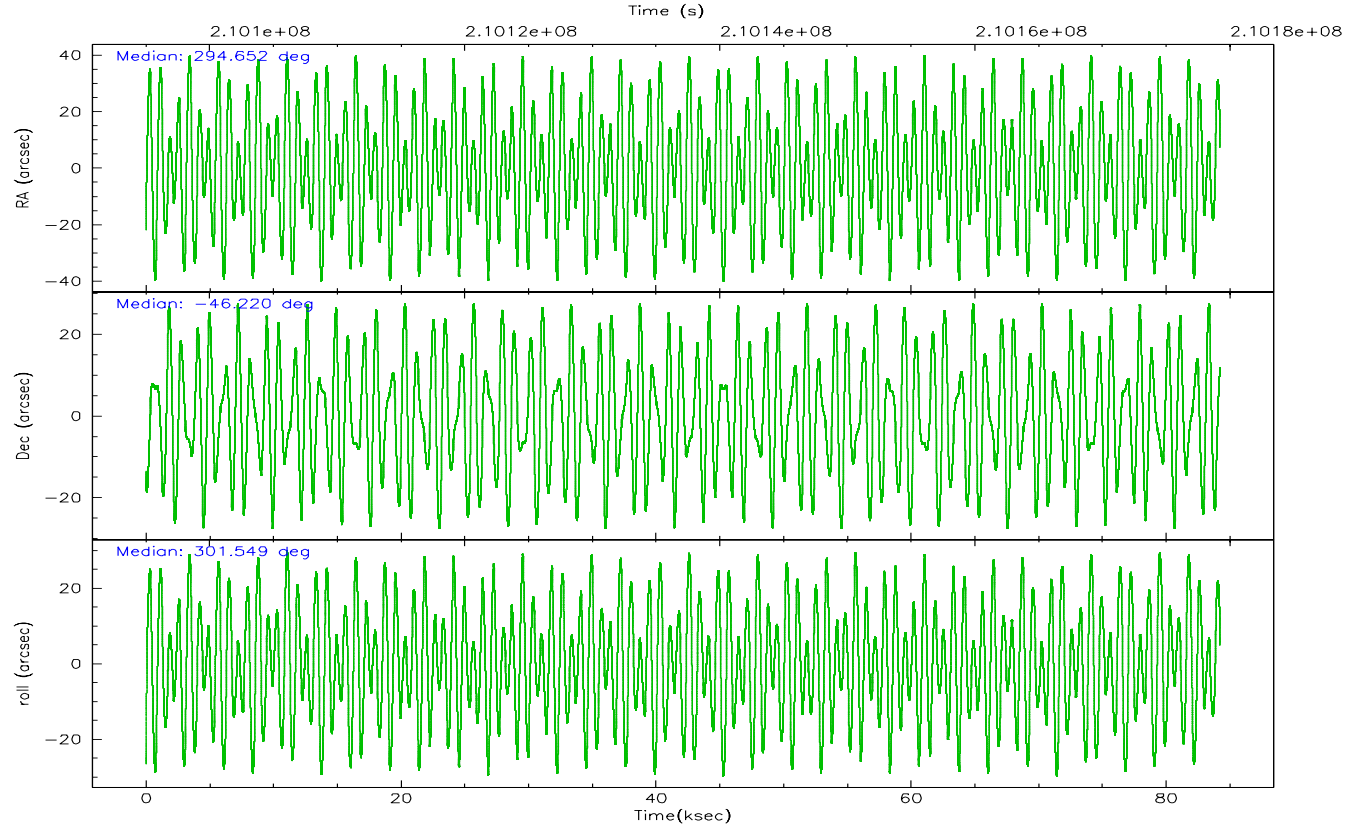
	segment 1	segment 2	segment 3
level 1 events	2616583	2429389	2534554
rejected events	465532	504382	565273
rejected %	17%	20%	22%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	HRC	HRC	Obspar format version number	6	6
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			
Pointing RA	294.614860	294.6521522776508			
Pointing Dec	-46.207377	-46.21973534449639			
Pointing Roll	301.462470	301.556731042456			
SIM focus pos (mm)	-1.429586	-1.428180813131781			
SIM defocus (mm)	0.1037507710433287	0.1051558262725154			
SIM translation stage pos (mm)	250.455976	250.466033080201			
SIM translation stage offset (mm)	0	-0.01005468664627074			
Observation start time	210095166.184000	210093907.51413			
Observation start date	2004-08-28T15:45:02	2004-08-28T15:25:07			
Observation end time	210178349.184000	210179976.76797			
Observation end date	2004-08-29T14:51:25	2004-08-29T15:19:36			

2.3 Aspect



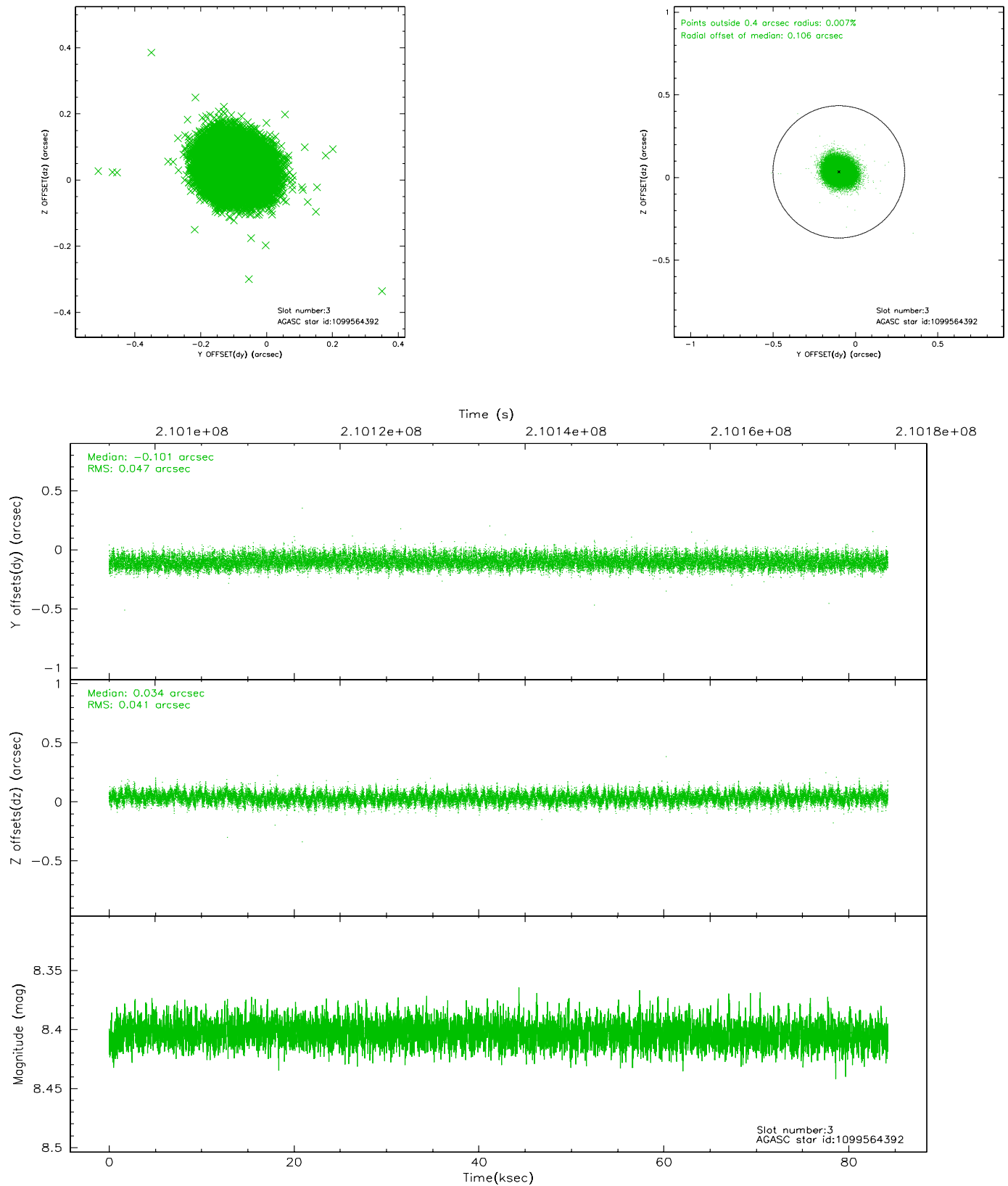


Slot Statistics

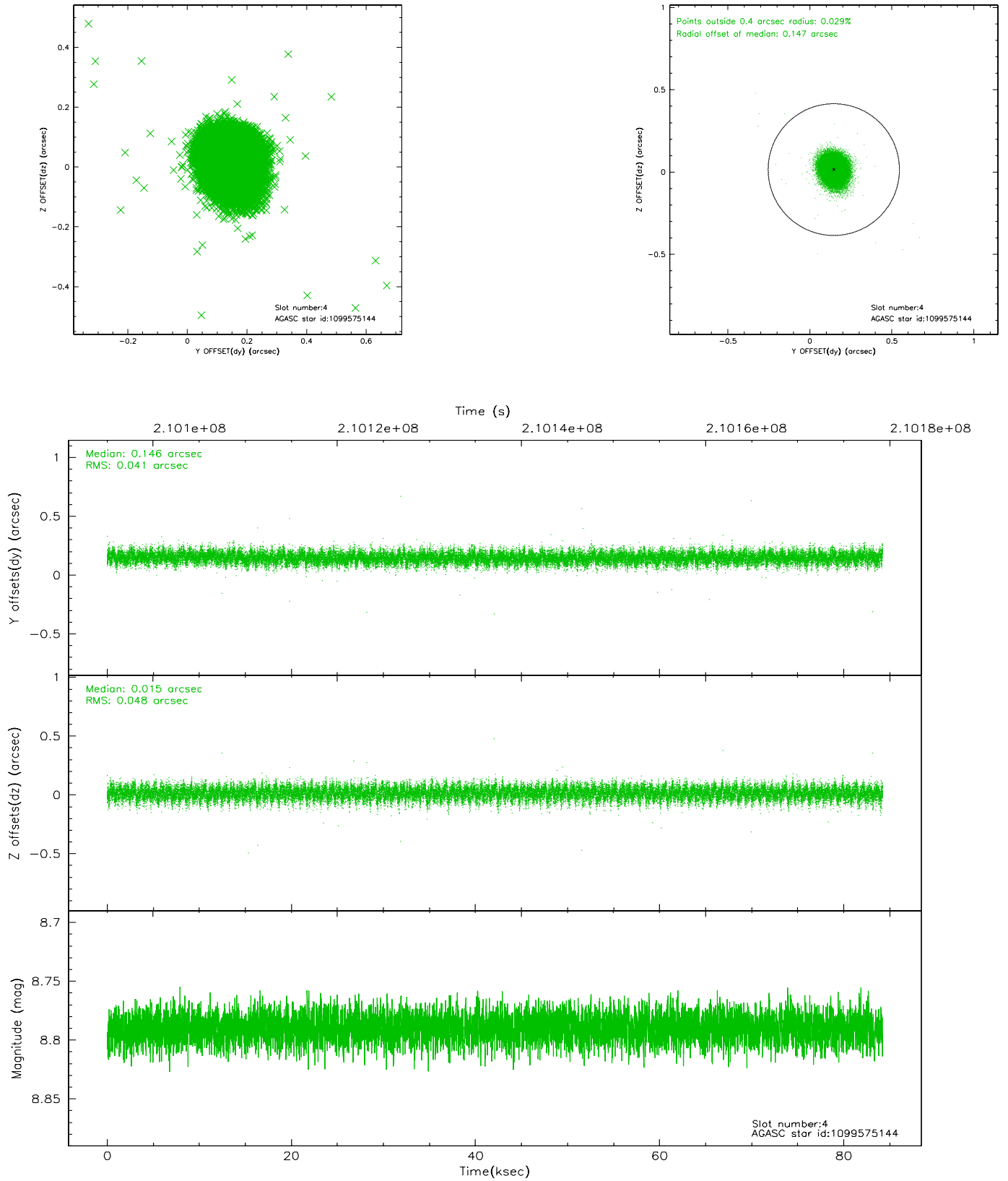
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-S-1	7.00	20546	0.158	-0.194	0.011	0.023	0.000000	0.000000	-1163.02	-458.50
1	FID	HRC-S-2	6.99	20547	0.117	-0.107	0.007	0.021	0.000000	0.000000	1236.57	-451.11
2	FID	HRC-S-3	7.01	20547	0.114	-0.001	0.010	0.020	0.000000	0.000000	-1165.71	571.20
3	GUIDE	1099564392	8.40	41074	-0.101	0.034	0.066	0.106	294.873149	-45.498510	-1835.92	1887.38
4	GUIDE	1099575144	8.79	41081	0.146	0.015	0.066	0.108	294.800955	-46.471921	1053.89	-103.39
5	GUIDE	1099579016	9.05	41075	0.157	-0.105	0.076	0.124	295.022415	-46.524762	1504.45	263.08
6	GUIDE	1100091712	8.29	41085	-0.028	-0.035	0.076	0.122	294.163174	-46.882681	1496.81	-2218.23
7	GUIDE	1099567688	7.71	41087	-0.176	0.089	0.082	0.129	294.830031	-45.428298	-2108.03	1927.29

2.4 Star Slots

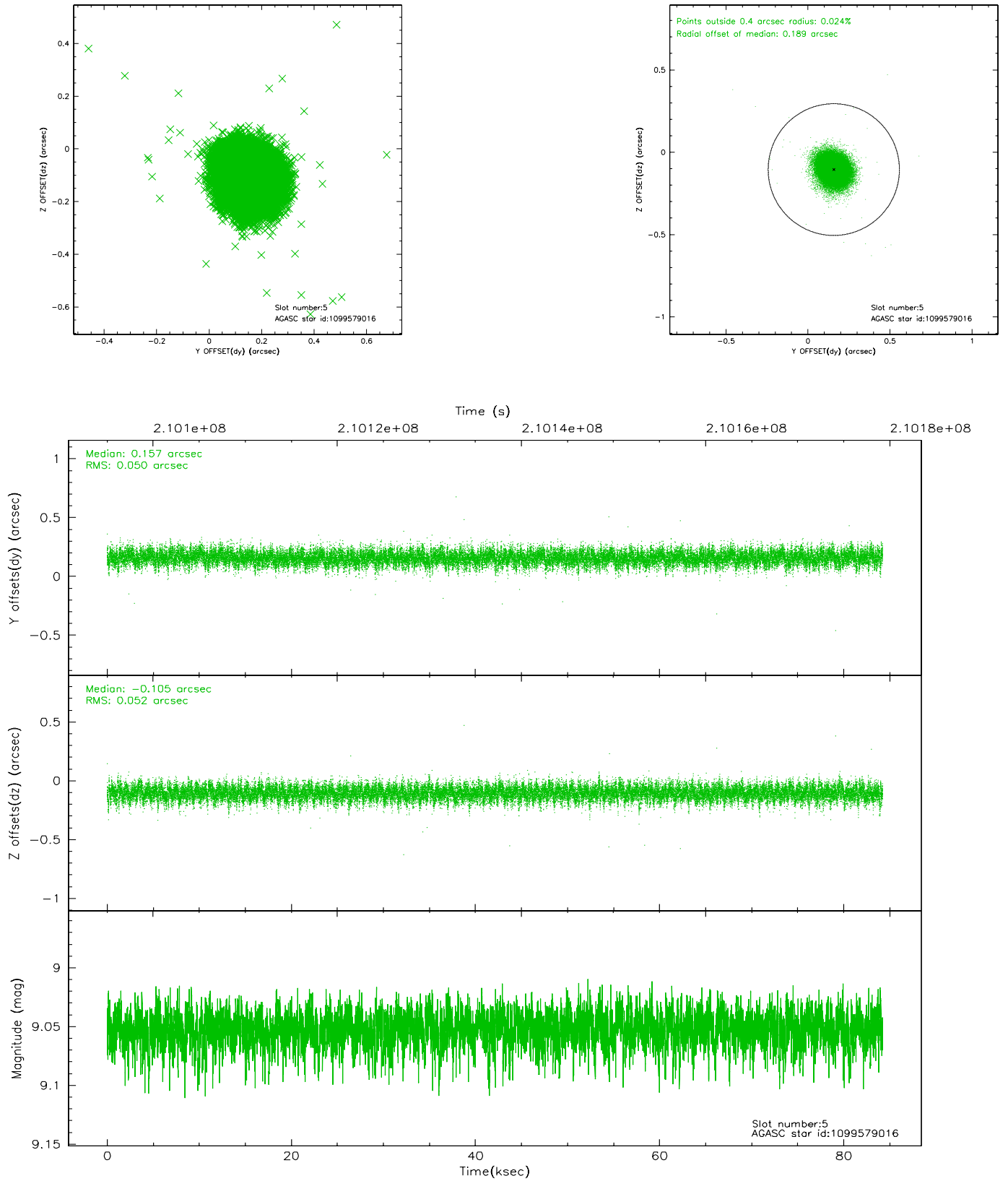
2.4.1 Slot 3



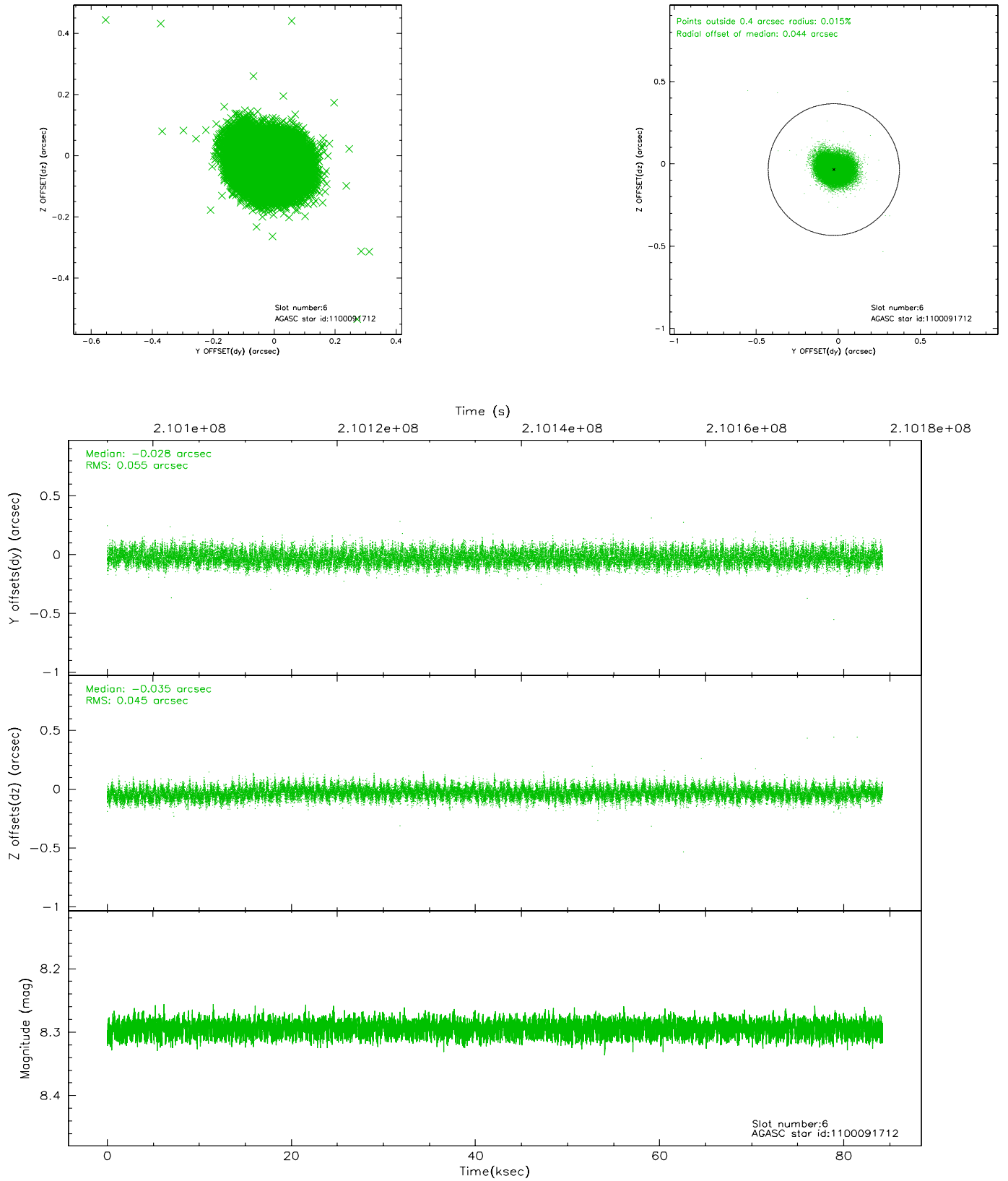
2.4.2 Slot 4



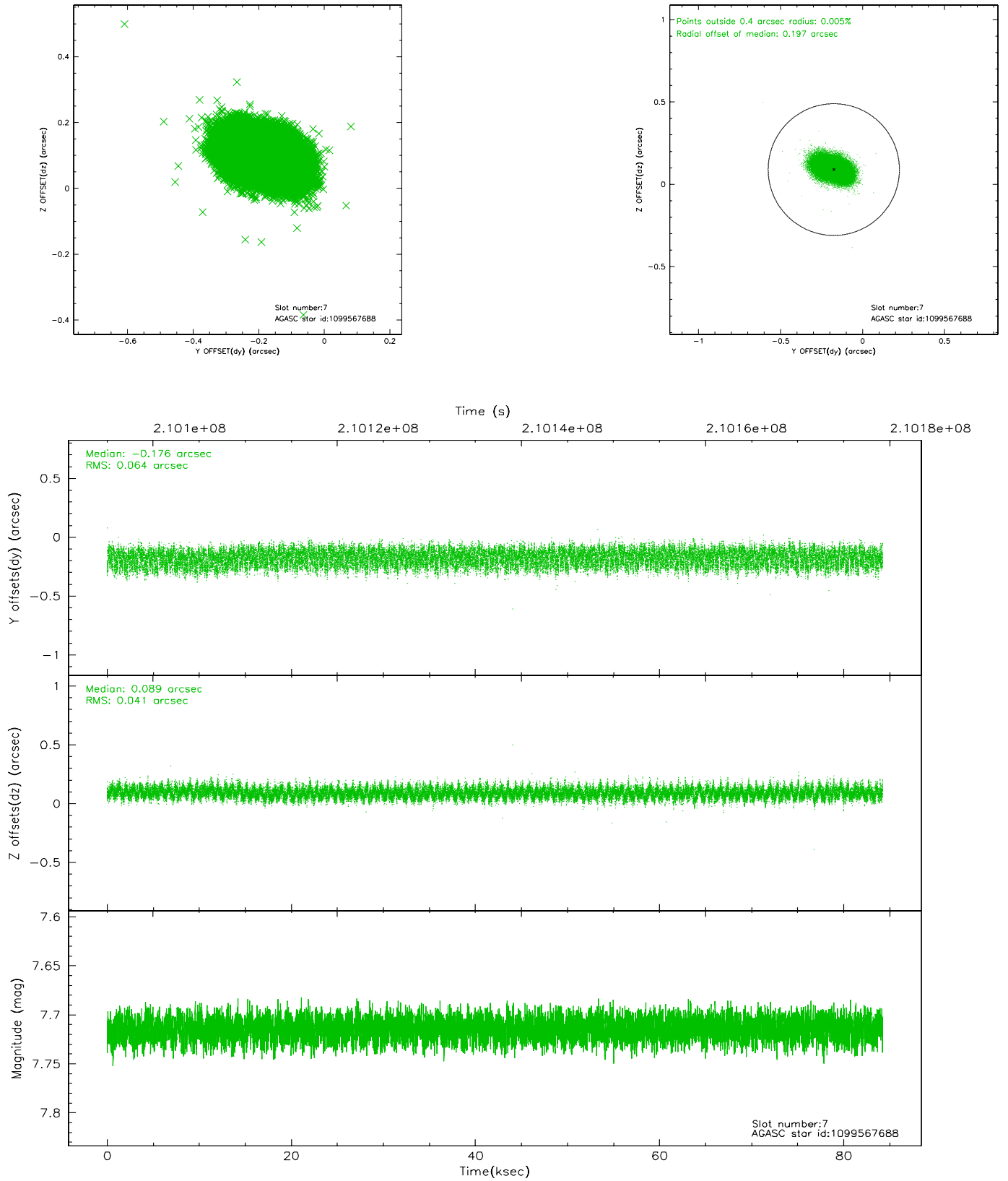
2.4.3 Slot 5



2.4.4 Slot 6

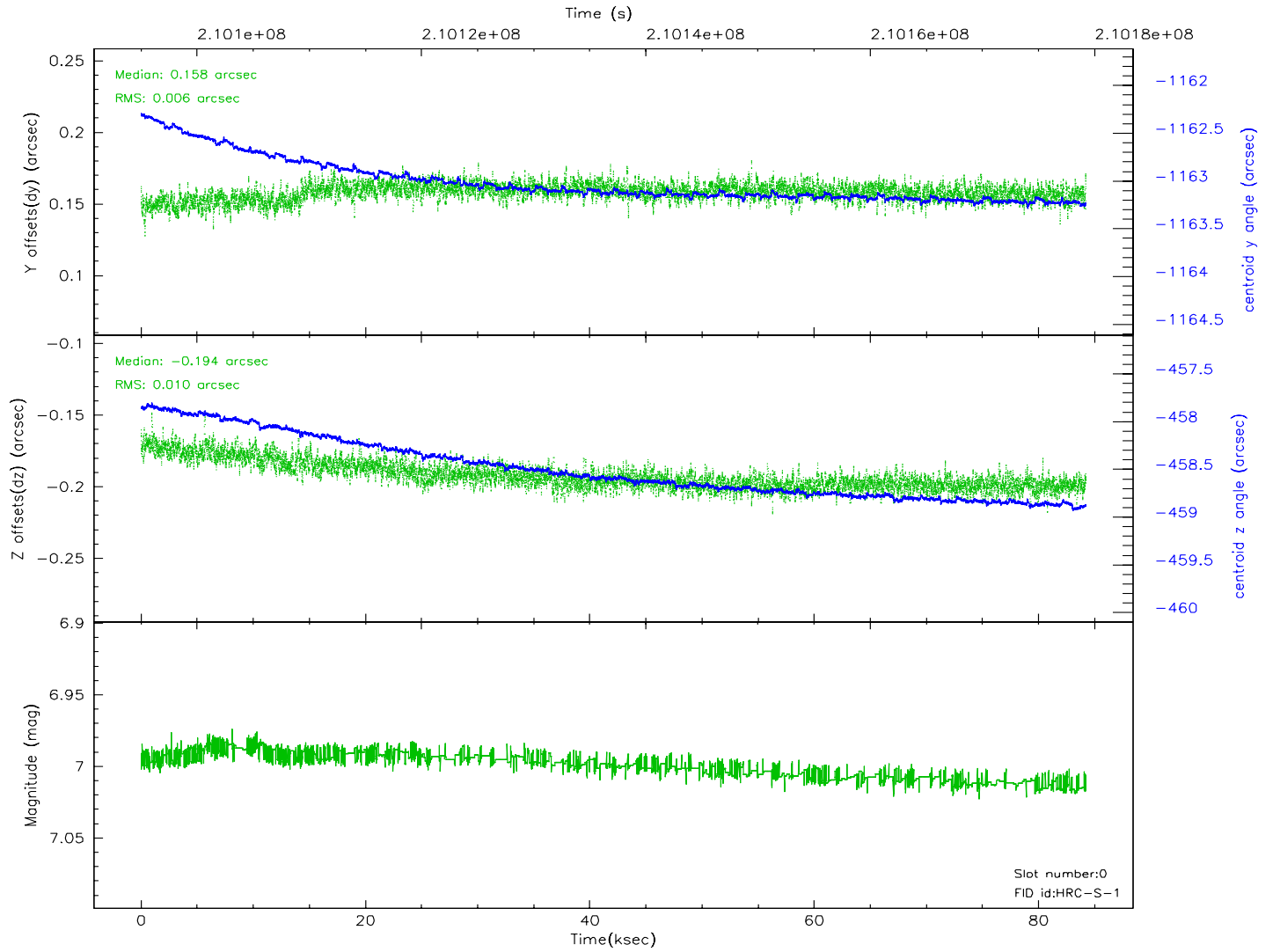
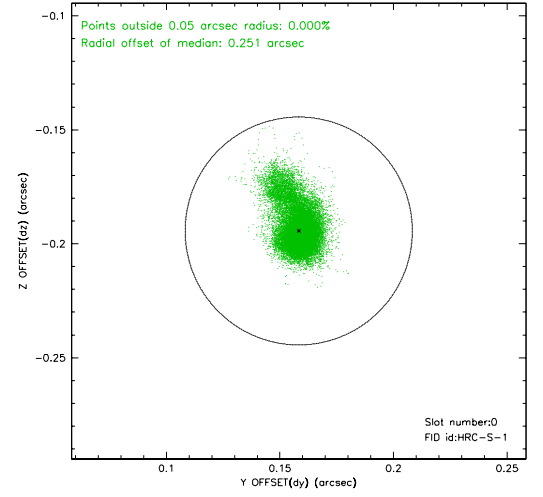
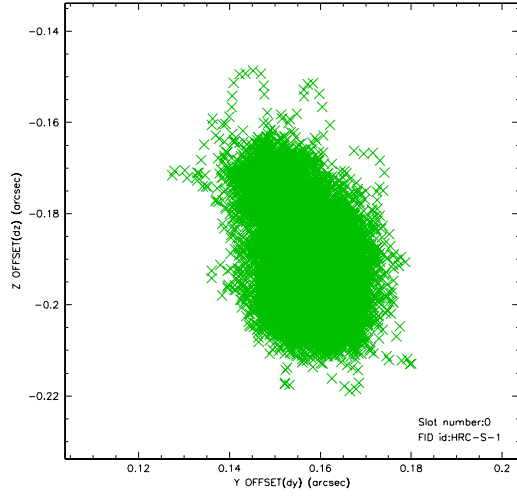


2.4.5 Slot 7

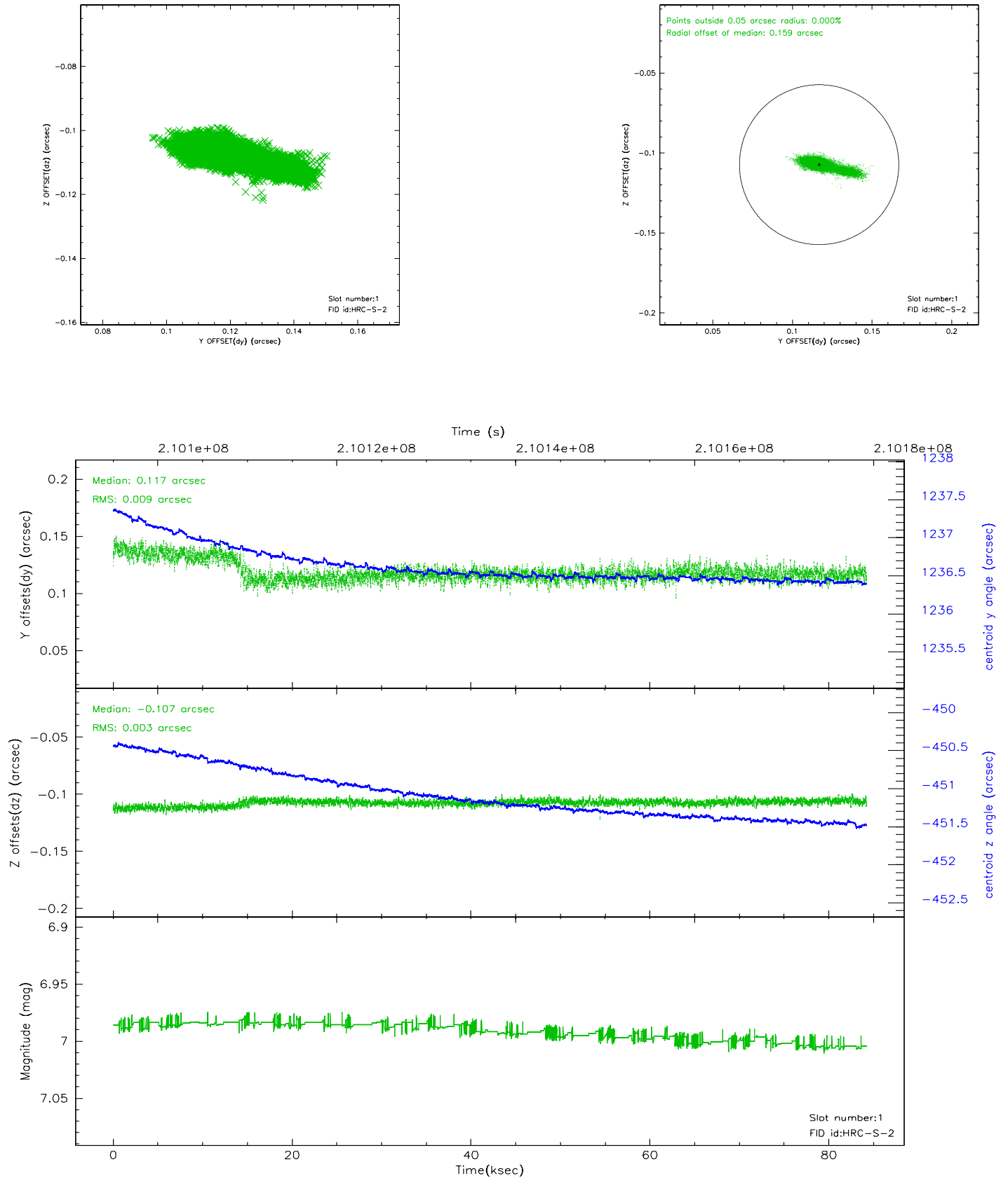


2.5 FID Slots

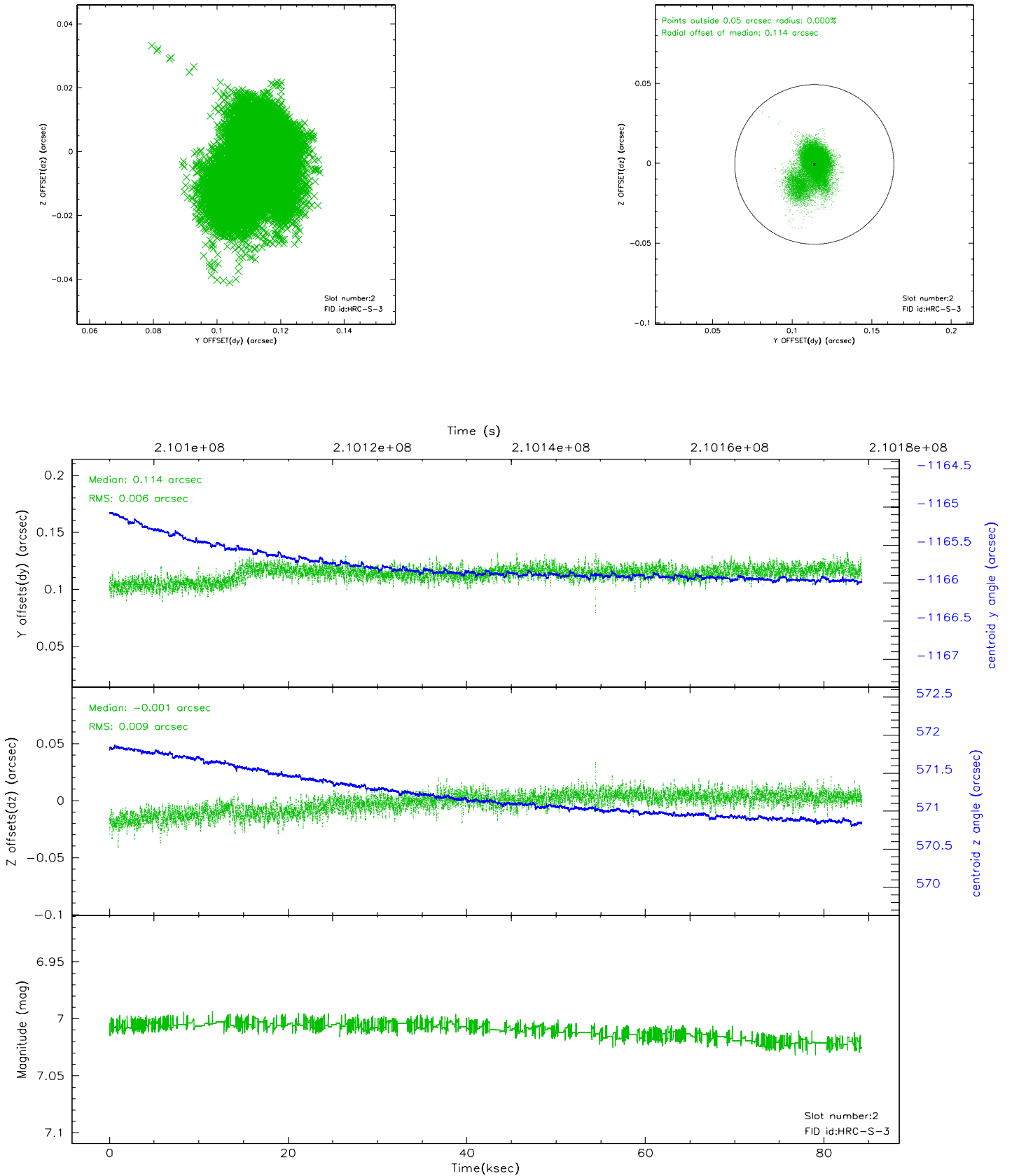
2.5.1 Slot 0



2.5.2 Slot 1

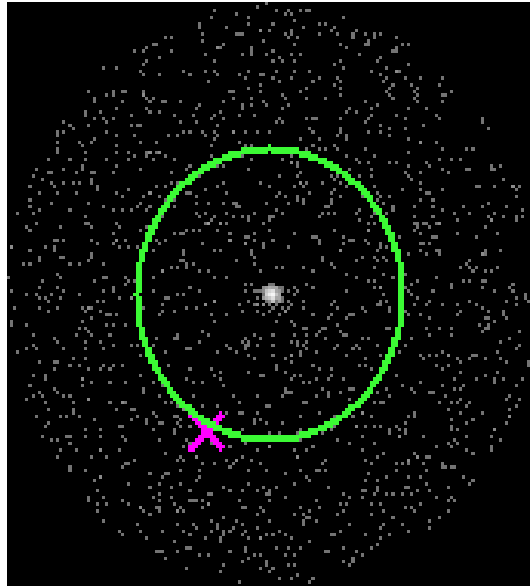


2.5.3 Slot 2

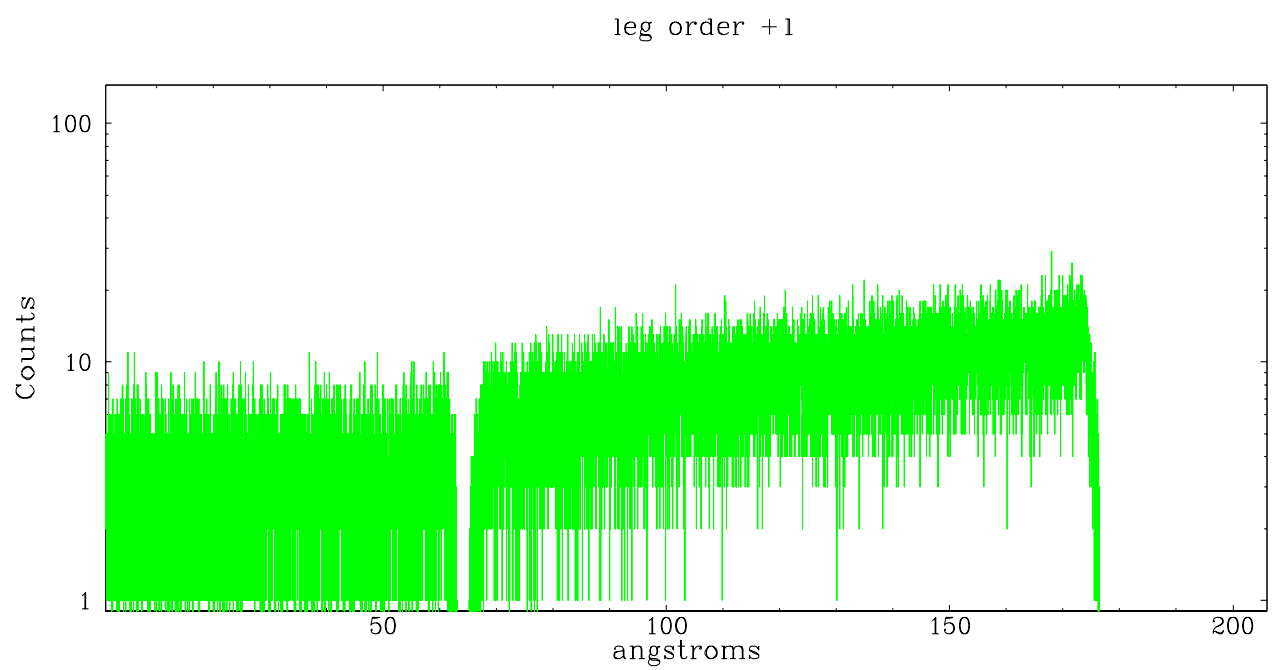
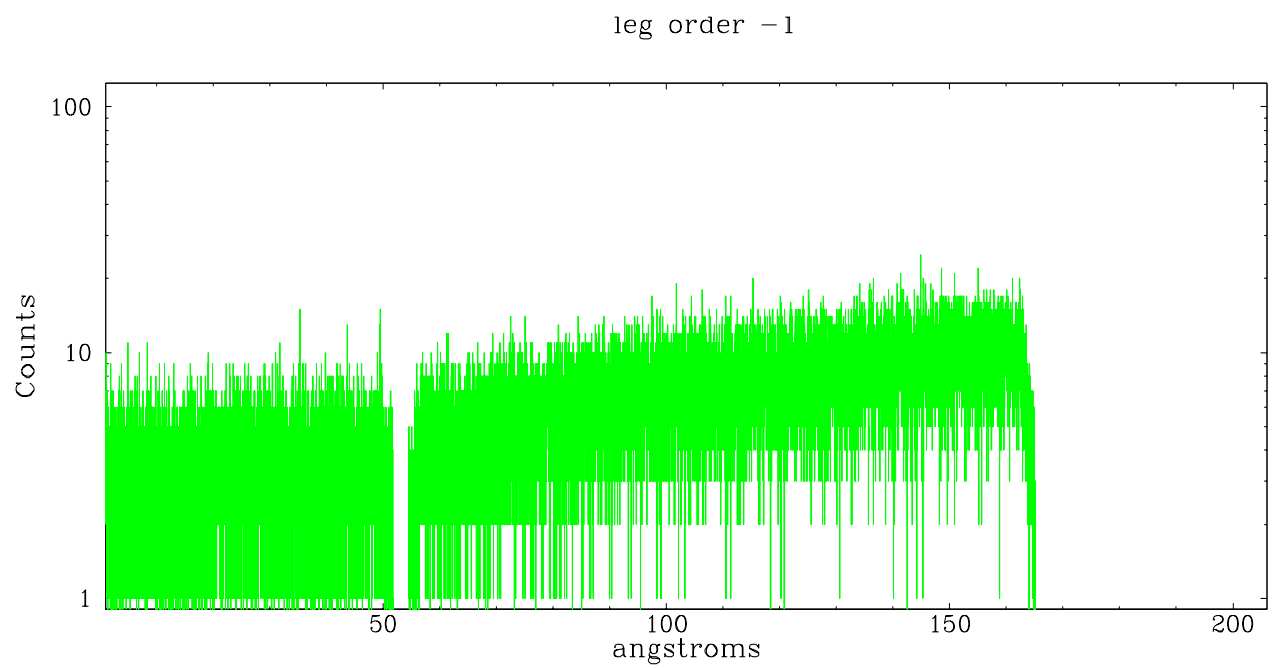


3 Gratings

3.1 LETG Arm



LETG Zero Order



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2006.04.21
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	83.739

A.2 Comments

The keywords DTCOR, EXPOSURE, and LIVETIME in the Level 2 event file and the keyword DTCOR in the Level 1 event file have been incorrectly determined due to a software bug. The correct value of DTCOR can be found in the file DTFSTATS file (*std_dtfstat1.fits) that can be obtained by downloading the Secondary Data Products. In most cases, the difference between the correct DTCOR value and the incorrect DTCOR value in the Level 2 event file is very small and does not affect the data analysis. However, there are cases of significant differences and the user is advised to use the DTCOR in the DTFSTATS file for analysis. Corrected data products will be made available in the archive as soon as feasible.

Last third of this observation has increasing radiation background levels.