

V&V Reference Report

L2 ASCDS Version : 7.6.7.1

Observation 7177 - L2 Version 002
Chandra X-Ray Center

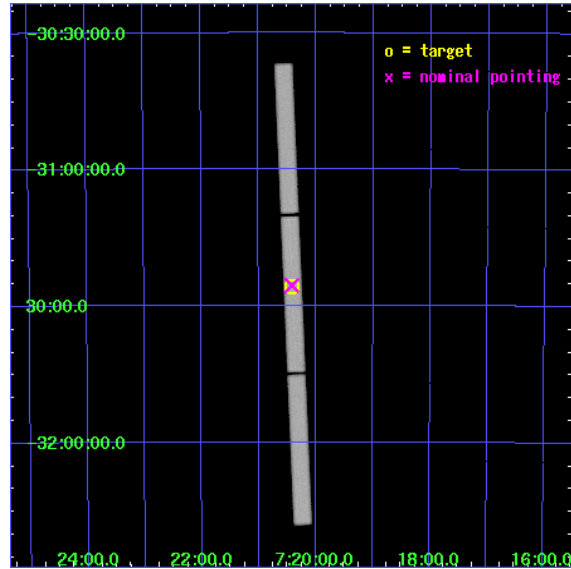
L2 Processing Date : Mar 31 2006

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1 Front

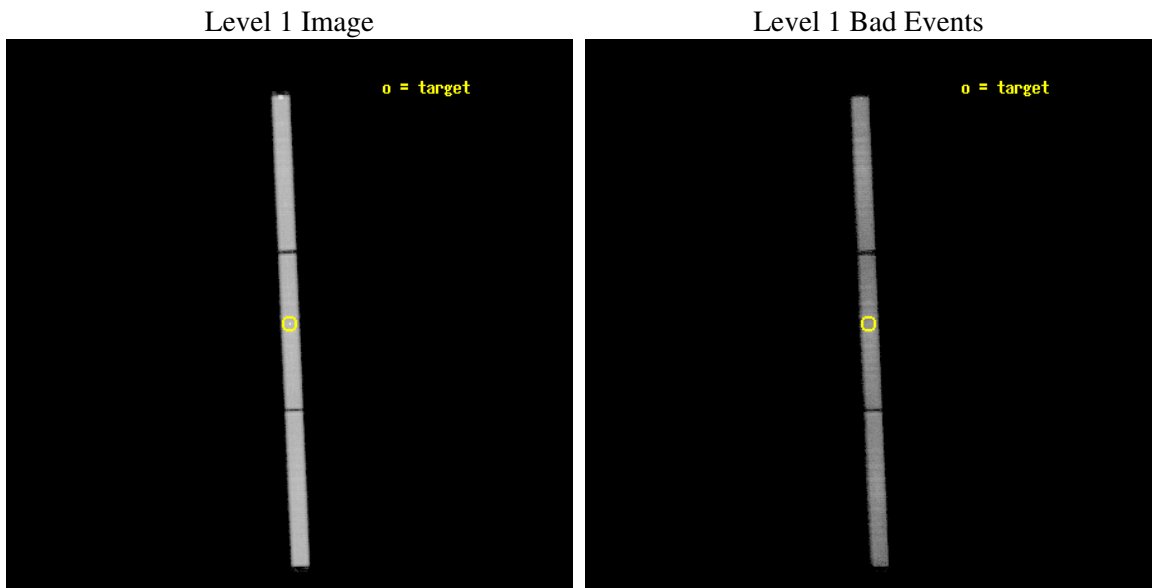
seq_num	500572
obs_id	7177
title	Spectra of Neutron Stars with Strongly Magnetized Hydrogen Atmospheres
observer	Prof. Marten van Kerkwijk
object	RX J0720.4-3125
ra_targ	110.104167
dec_targ	-31.430611
ra_nom	110.10460088975
dec_nom	-31.425930165352
roll_nom	87.467501362359
revision	2
ontime	8043.175370276
livetime	7984.0206345092
l2events	451798



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	2006-03-31T22:15:40
revision	2

sched_exp_time	7900.000000
ontime	8043.175370276
l1events	850371

2.1.3 Events

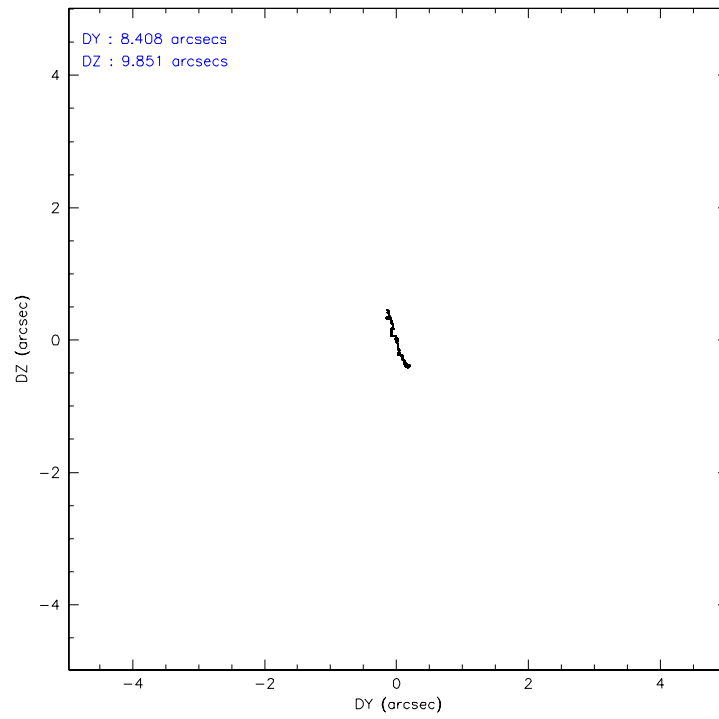
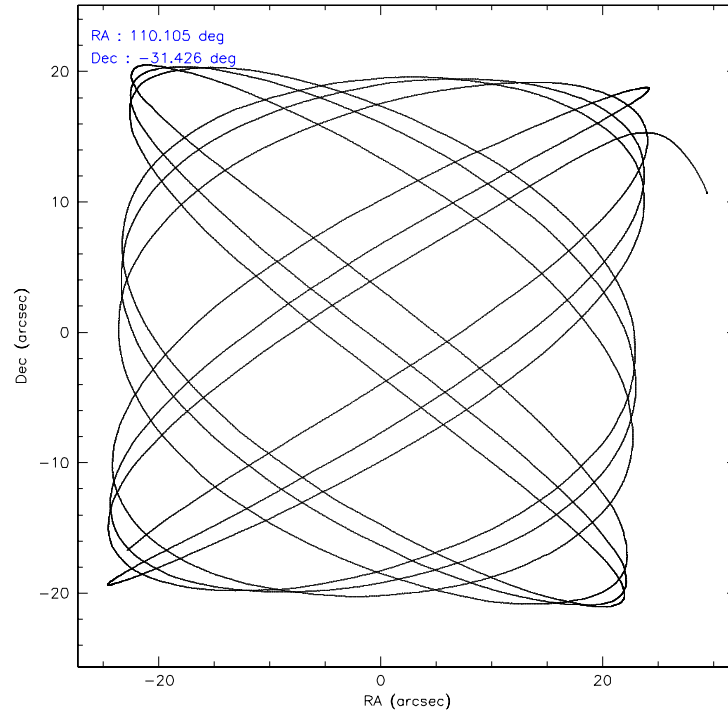
Level 1 Events

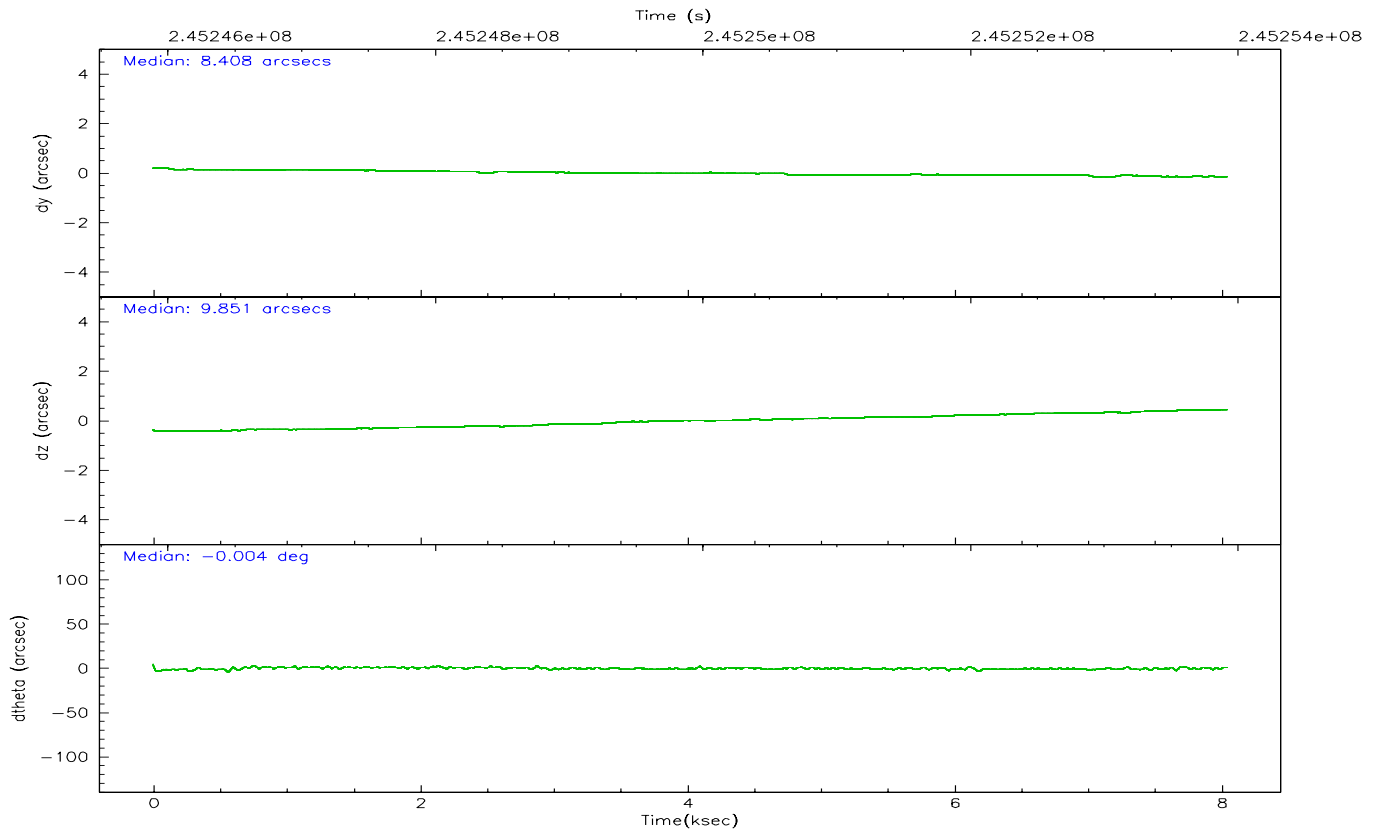
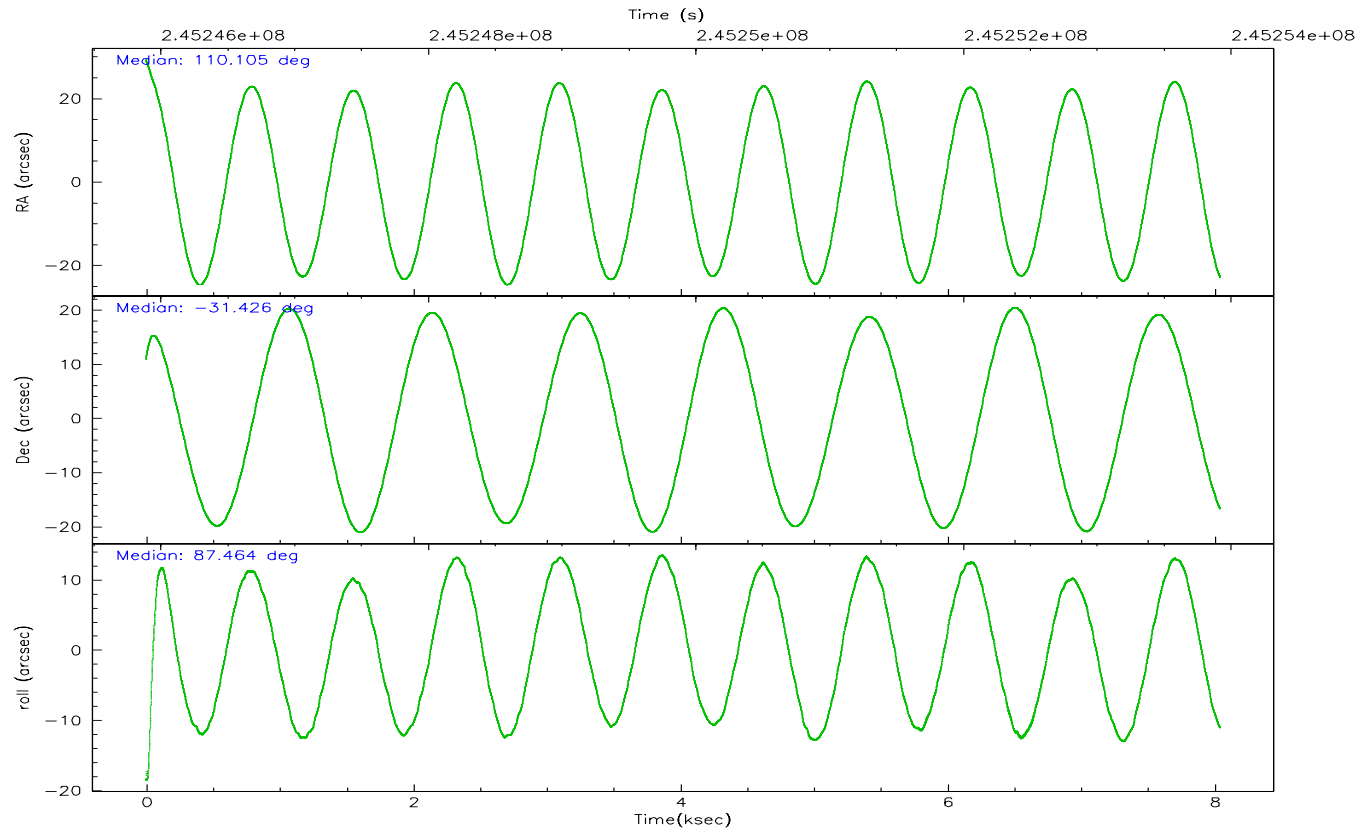
	segment 1	segment 2	segment 3
level 1 events	284906	279183	286282
rejected events	107627	109723	116472
rejected %	37%	39%	40%

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	110.121484	110.1046008897513			
Pointing Dec	-31.450635	-31.42593016535179			
Pointing Roll	87.409035	87.46750136235912			
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	245246024.184000	245244173.12019			
Observation start date	2005-10-09T11:52:40	2005-10-09T11:22:53			
Observation end time	245253924.184000	245254576.87067			
Observation end date	2005-10-09T14:04:20	2005-10-09T14:16:16			

2.3 Aspect



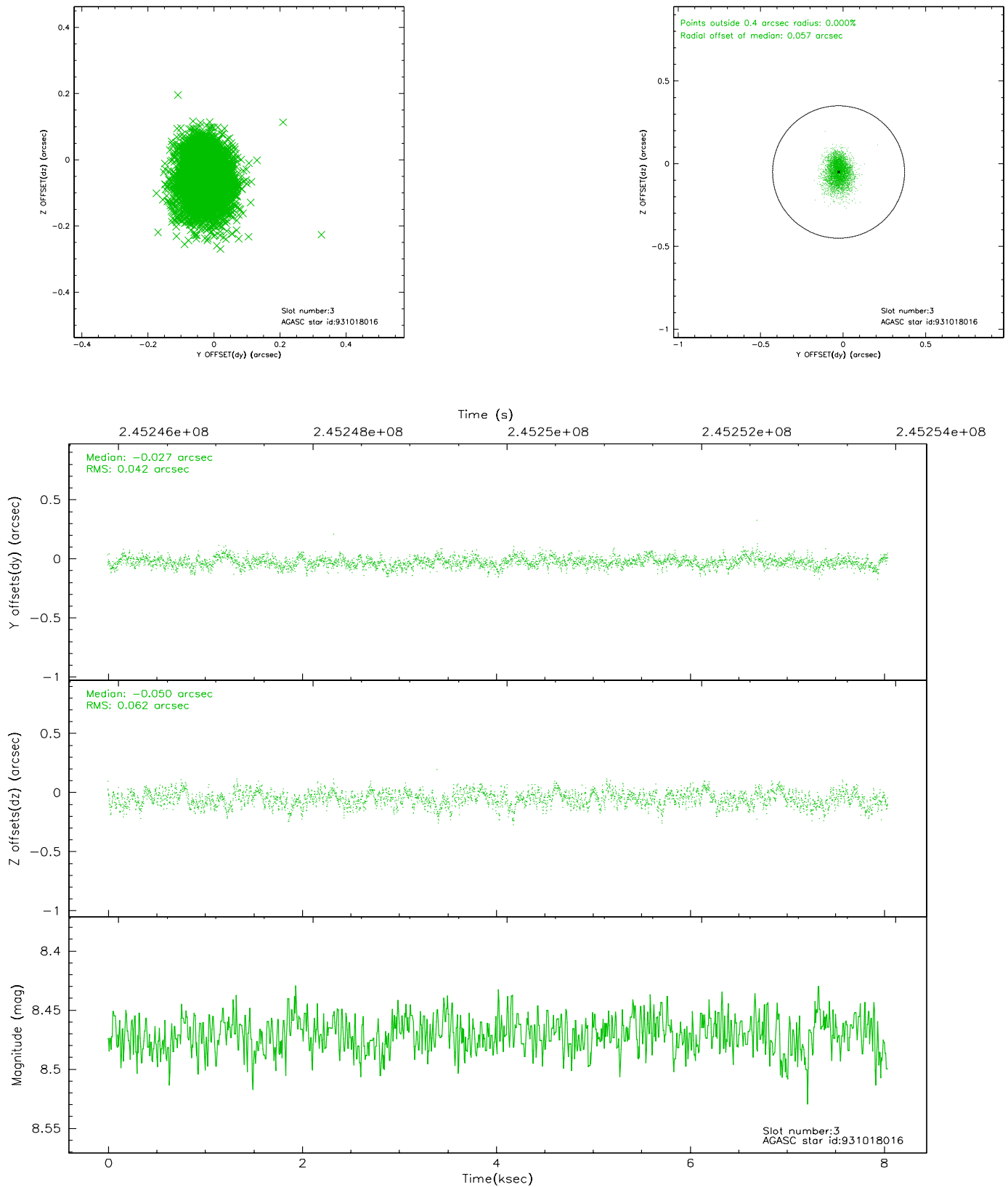


Slot Statistics

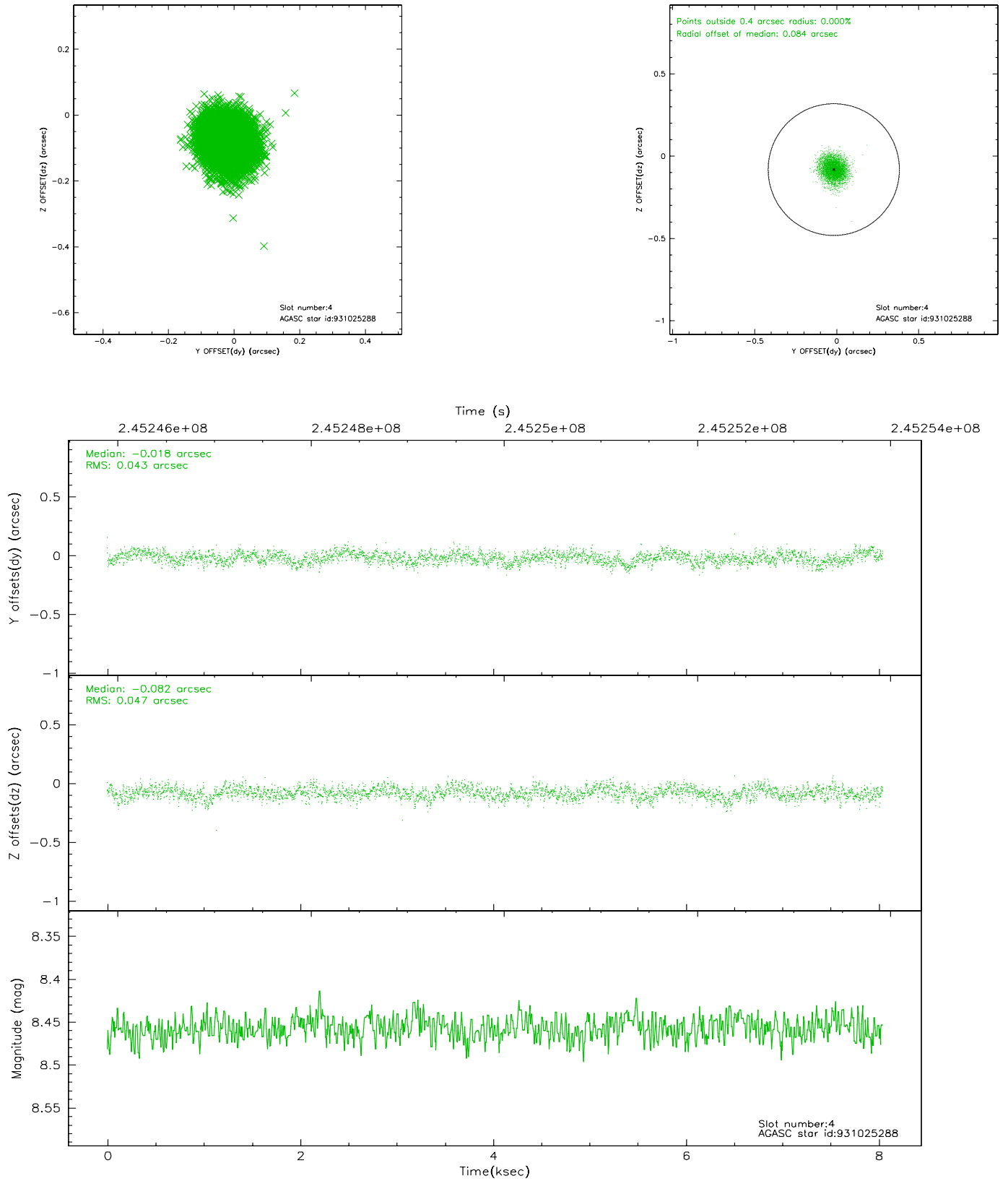
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-S-1	7.01	1961	0.104	-0.134	0.005	0.008	0.000000	0.000000	-1162.62	-458.50
1	FID	HRC-S-2	7.01	1962	0.090	-0.096	0.014	0.023	0.000000	0.000000	1236.45	-451.33
2	FID	HRC-S-4	7.00	1961	0.208	-0.074	0.013	0.021	0.000000	0.000000	1236.37	573.43
3	GUIDE	931018016	8.47	3924	-0.027	-0.050	0.079	0.129	109.684535	-31.226562	742.16	1380.28
4	GUIDE	931025288	8.46	3923	-0.018	-0.082	0.068	0.108	109.511084	-30.937793	1753.99	1966.68
5	GUIDE	931695048	7.37	3924	0.016	0.196	0.067	0.105	110.648539	-32.046020	-2071.90	-1703.05
6	GUIDE	931012368	8.77	3925	0.100	-0.255	0.086	0.134	109.359817	-31.783345	-1310.66	2273.35
7	GUIDE	931160352	8.65	3923	-0.070	0.192	0.074	0.121	110.268138	-30.864891	2126.39	-356.28

2.4 Star Slots

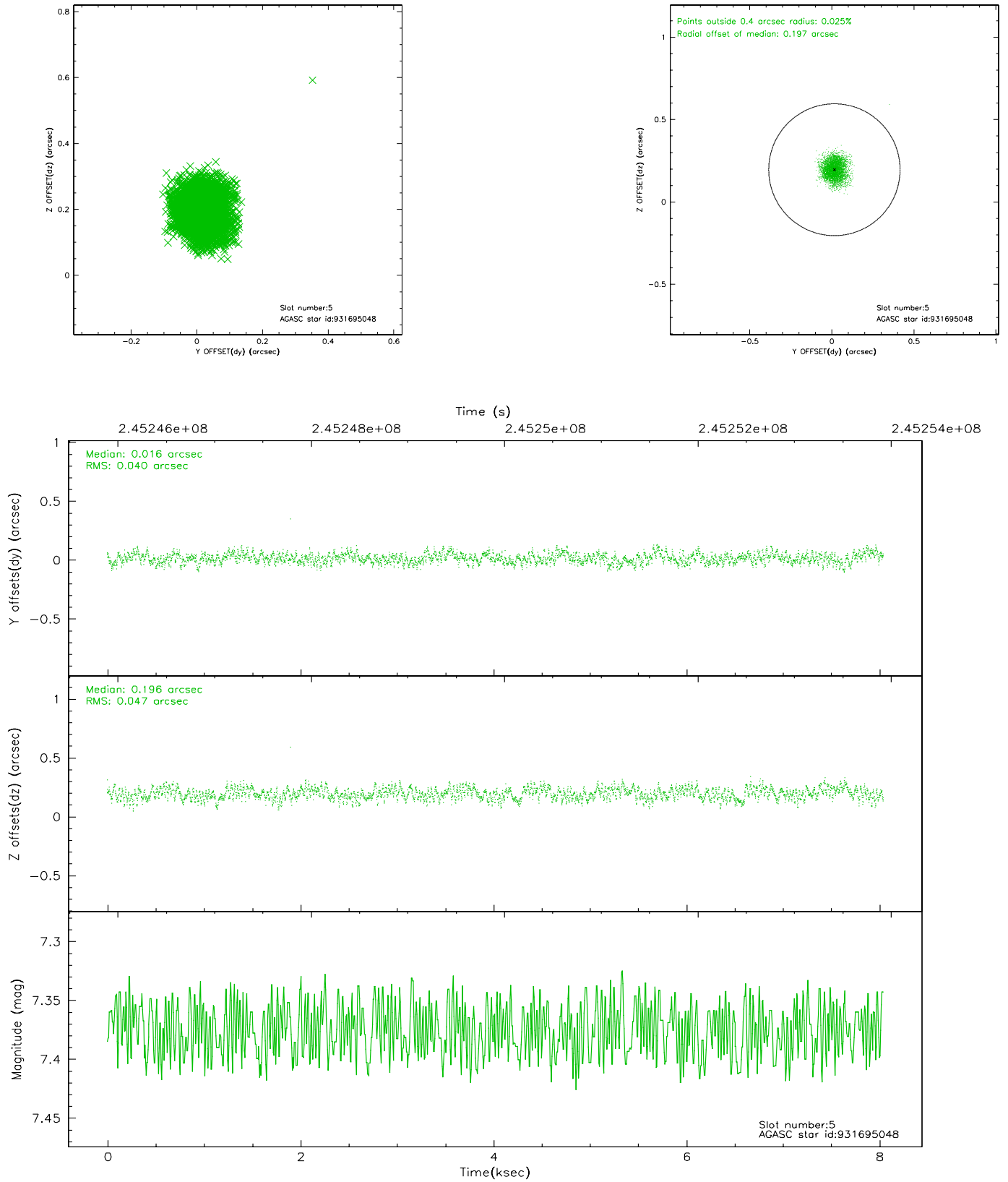
2.4.1 Slot 3



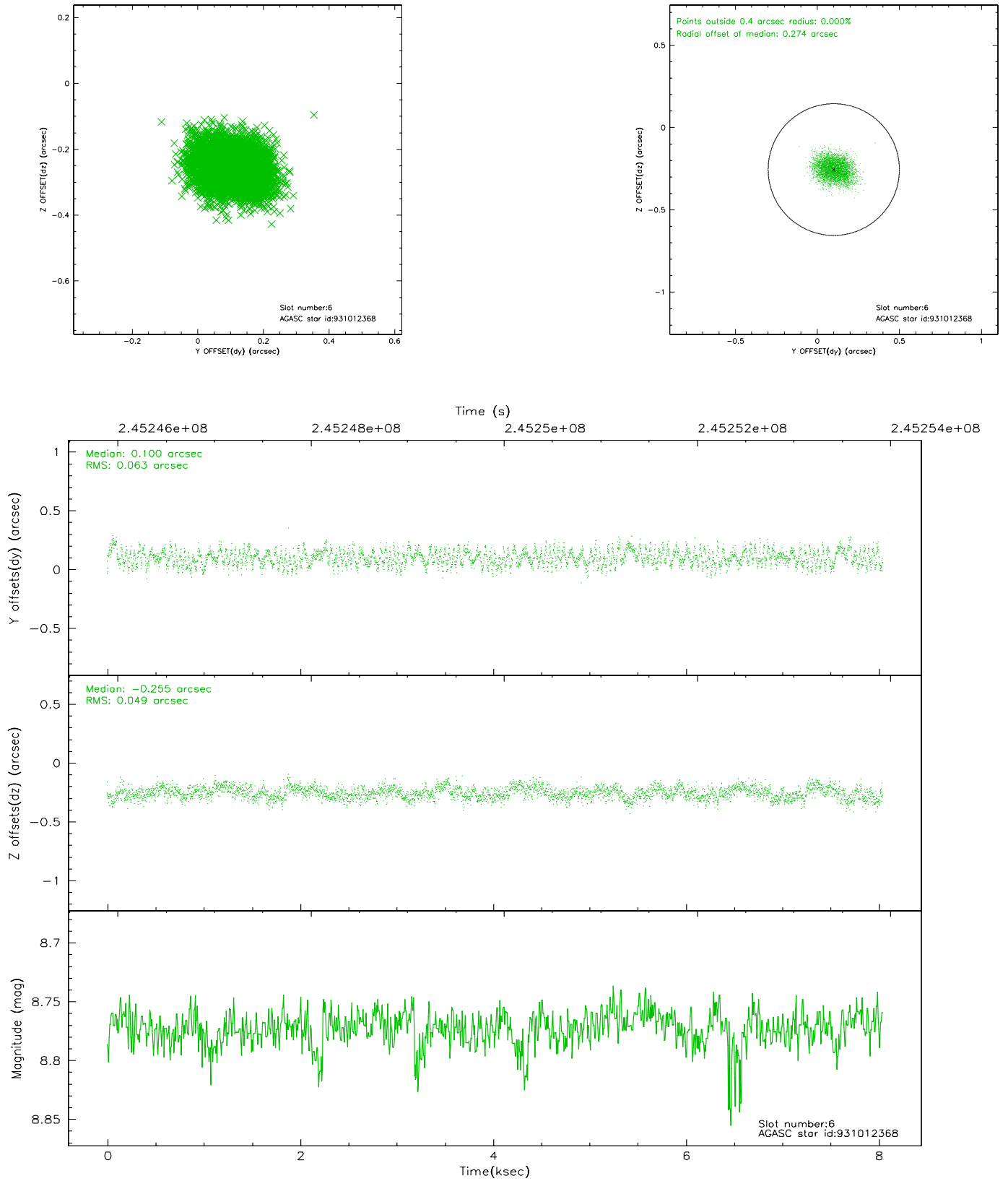
2.4.2 Slot 4



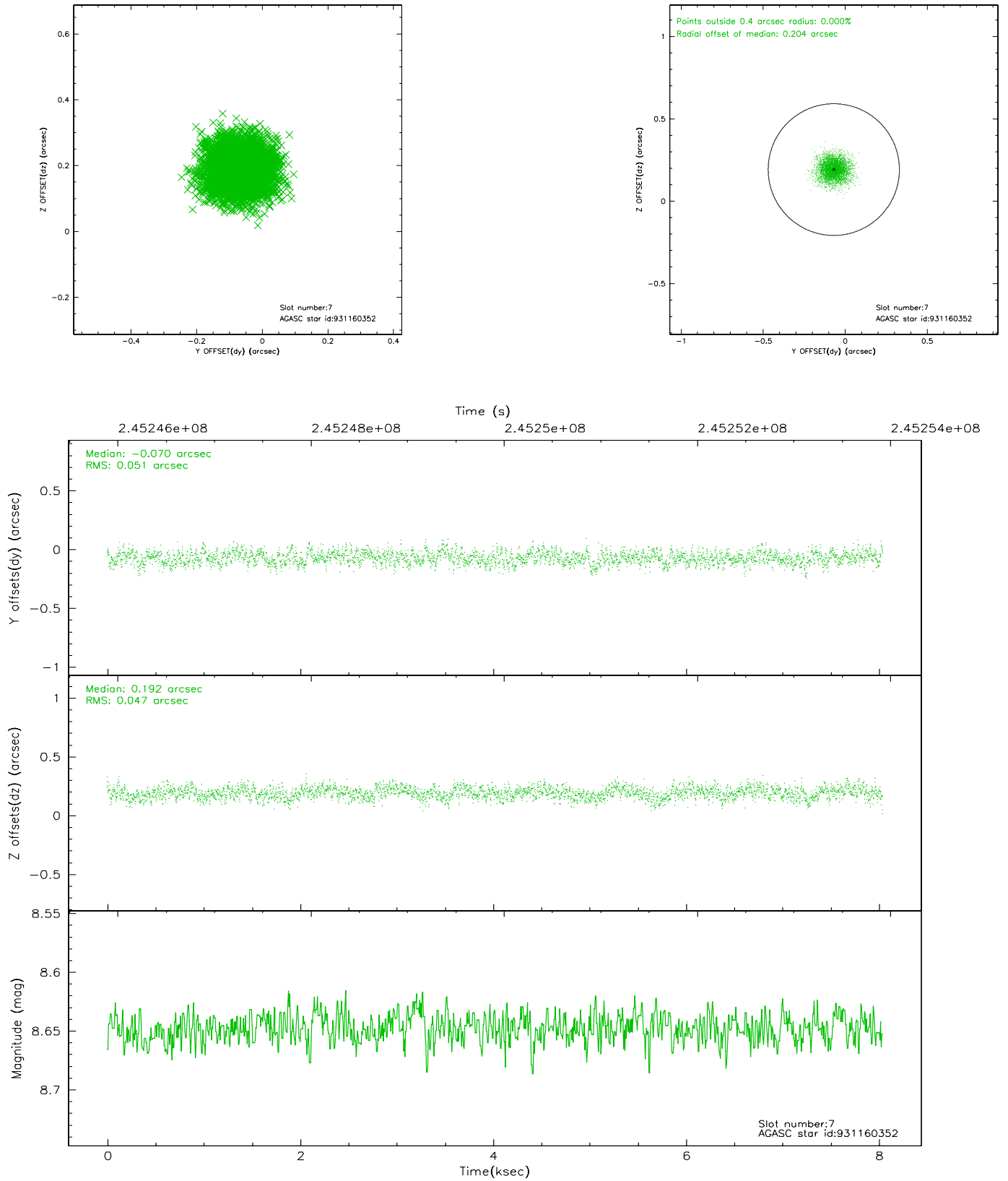
2.4.3 Slot 5



2.4.4 Slot 6

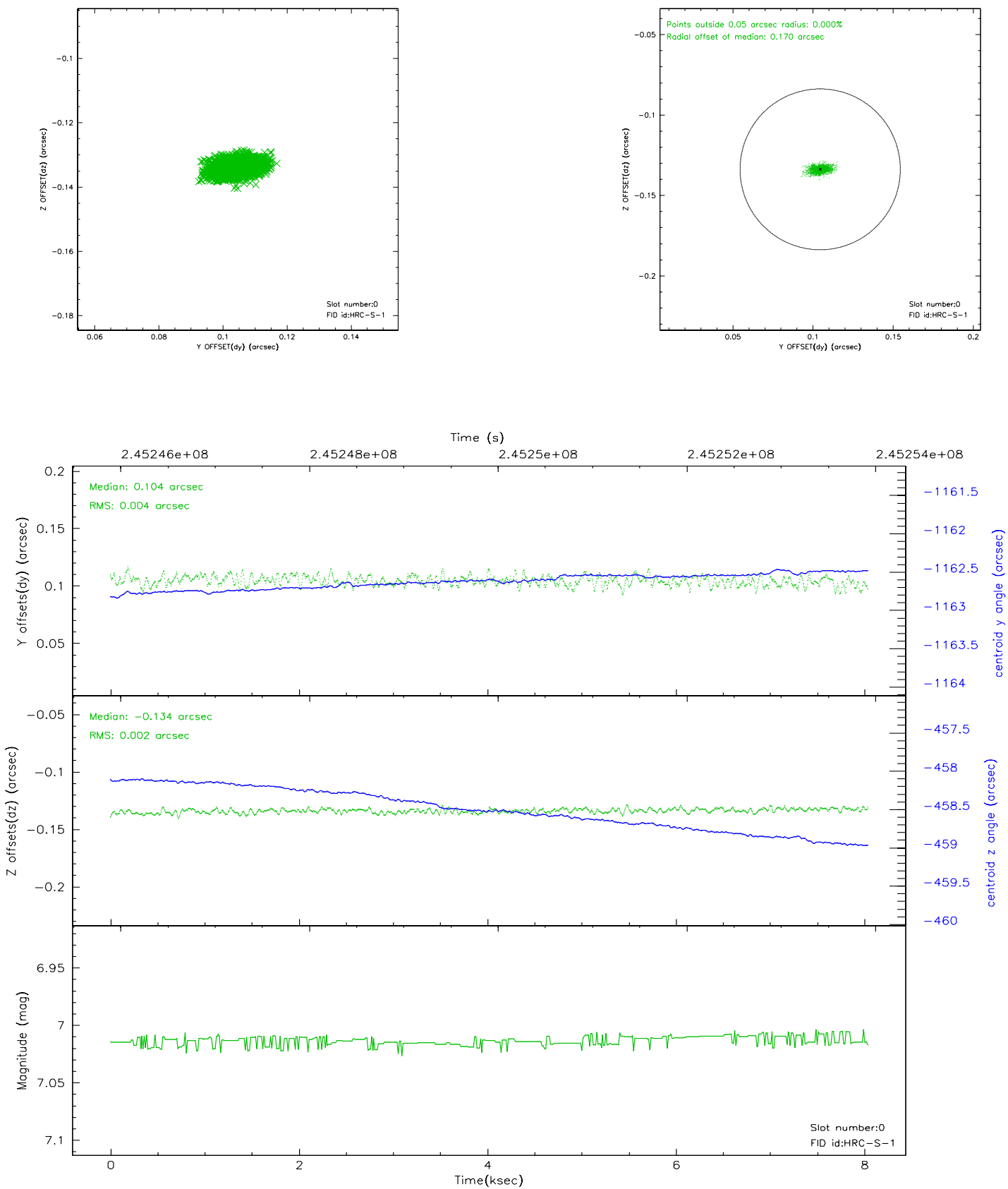


2.4.5 Slot 7

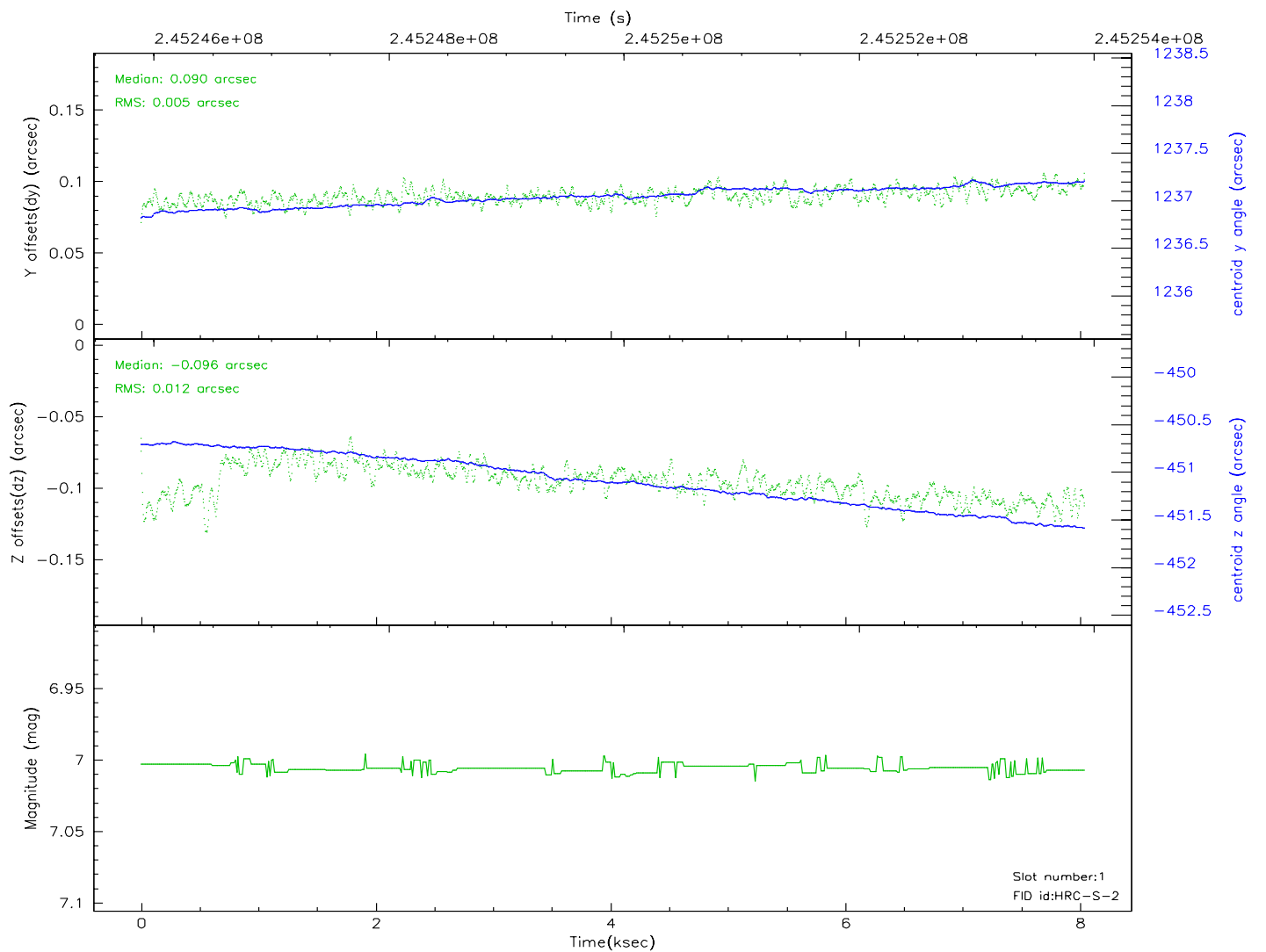
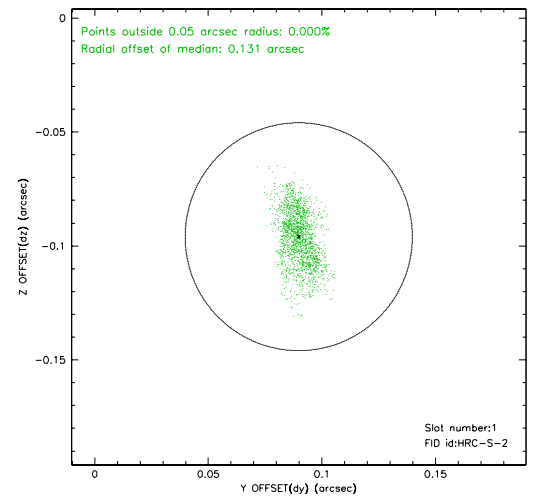
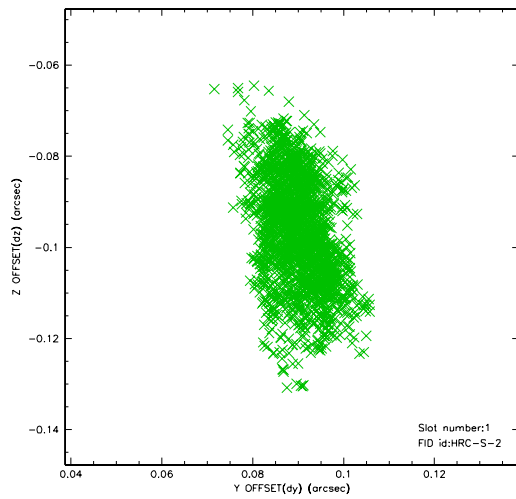


2.5 FID Slots

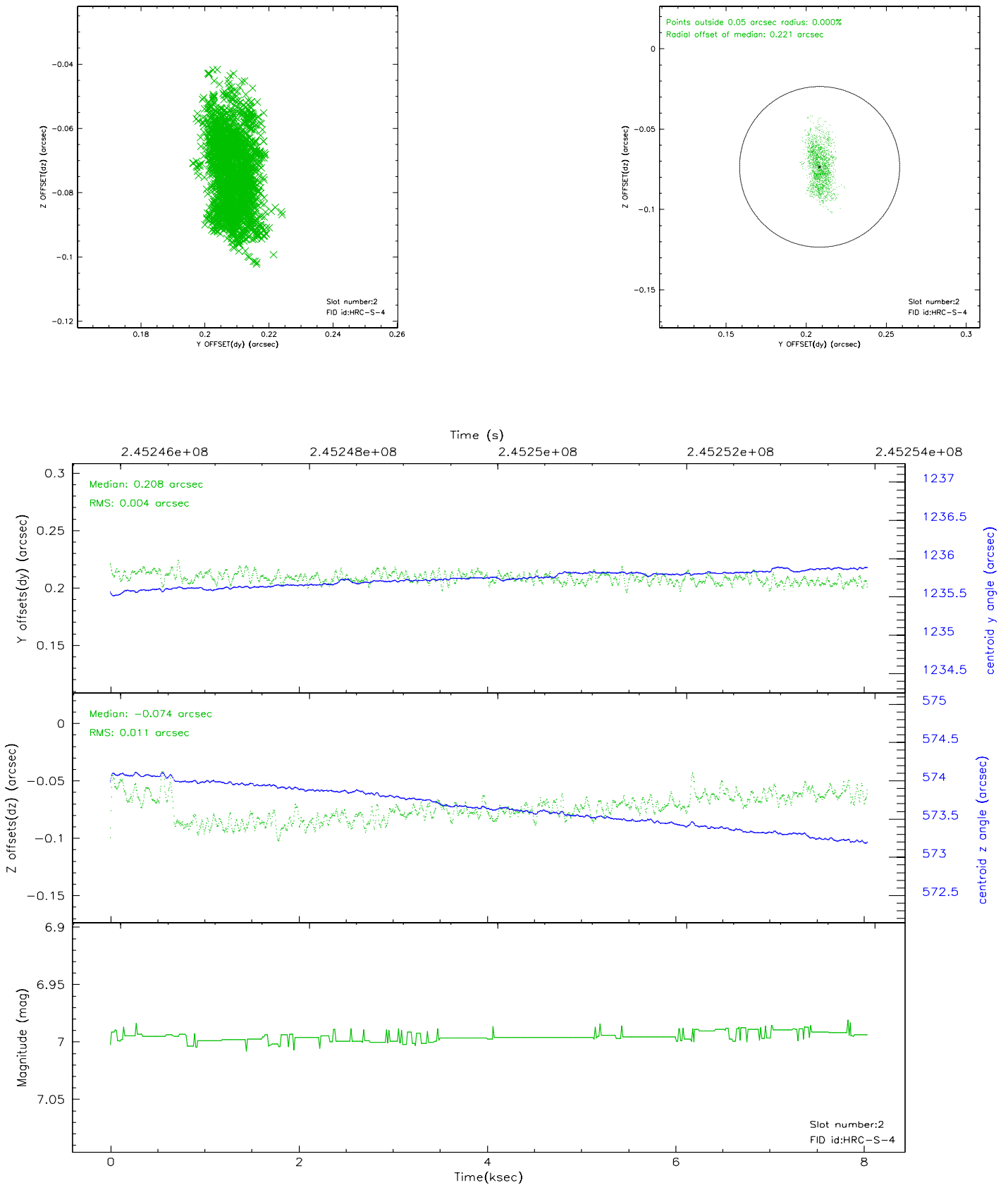
2.5.1 Slot 0



2.5.2 Slot 1

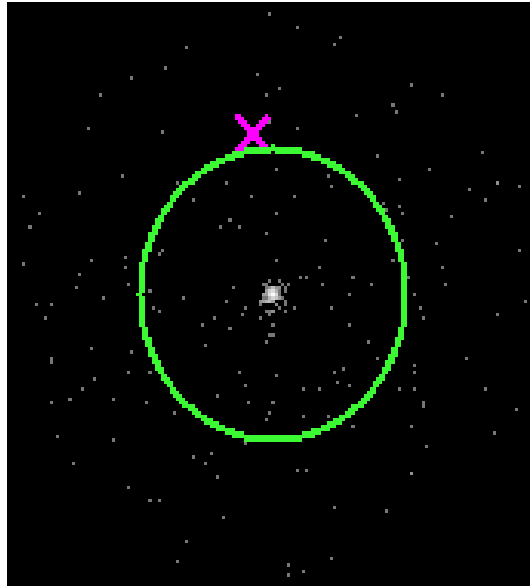


2.5.3 Slot 2

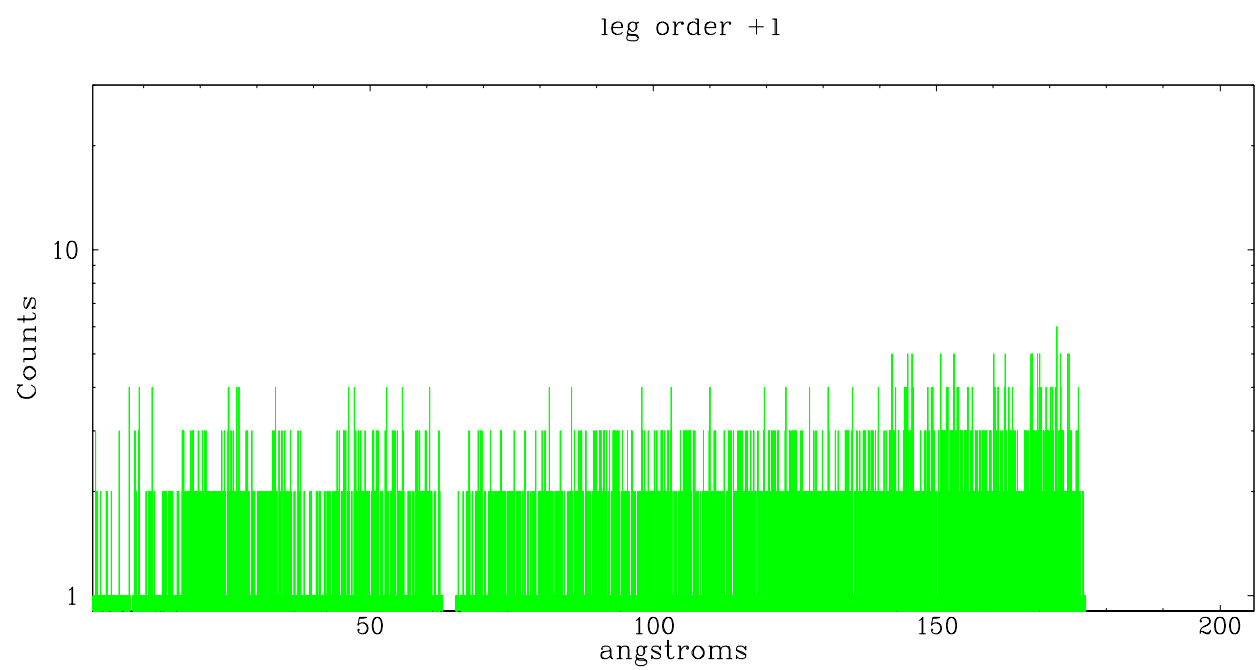
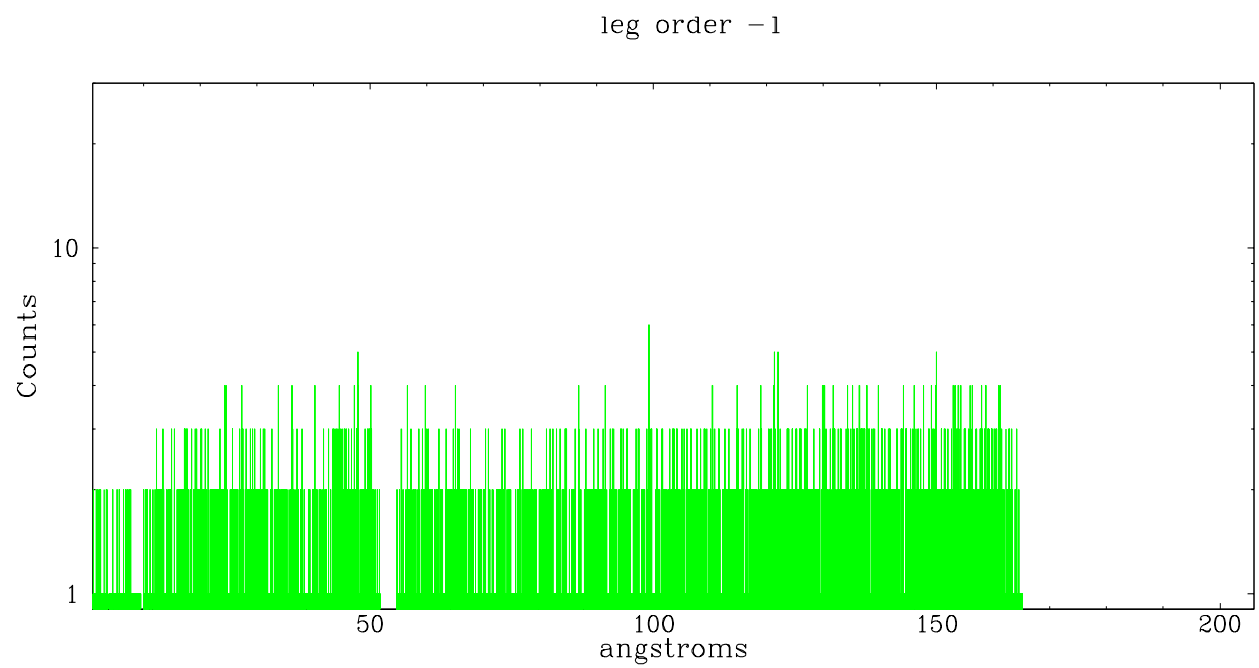


3 Gratings

3.1 LETG Arm



LETG Zero Order



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2006.04.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.043431

A.2 Comments

Increased count rates by factors of 2-3 occur at ~1.75, 3.2, 7.1, and 7.75 ksec into the observation. These are possibly the result of radiation.

Monitor constraint met.