

V&V Reference Report

L2 ASCDS Version : 7.6.7.1

Observation 6369 - L2 Version 002
Chandra X-Ray Center

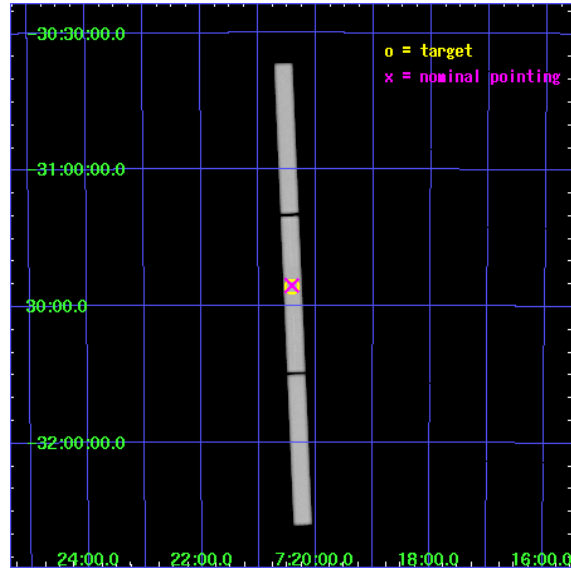
L2 Processing Date : Mar 31 2006

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Parameters	4
2.1.3	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
3	Gratings	17
3.1	LETG Arm	17
A	Summary	19
A.1	Status	19
A.2	Comments	19

1 Front

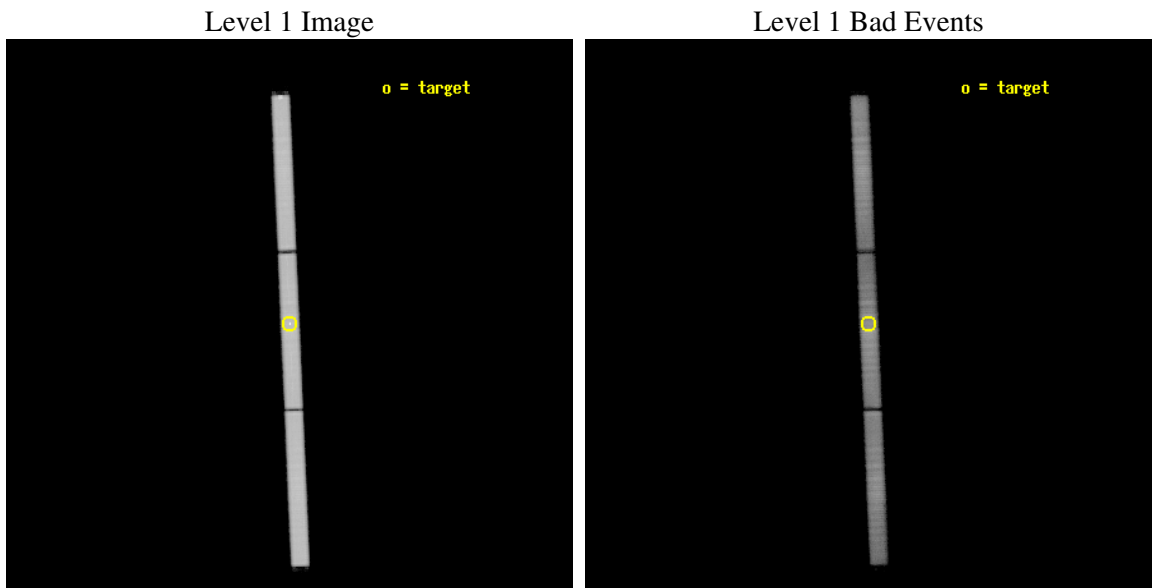
seq_num	500572
obs_id	6369
title	Spectra of Neutron Stars with Strongly Magnetized Hydrogen Atmospheres
observer	Prof. Marten van Kerkwijk
object	RX J0720.4-3125
ra_targ	110.104167
dec_targ	-31.430611
ra_nom	110.10457715063
dec_nom	-31.425932611144
roll_nom	87.46753826561
revision	2
ontime	26255.376208633
livetime	26041.924371443
l2events	1728083



2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Parameters

obi_num	1
ascdsver	7.6.7.1
caldbver	3.2.1
date	2006-03-31T22:27:53
revision	2

sched_exp_time	26100.000000
ontime	26255.376208633
l1events	2550306

2.1.3 Events

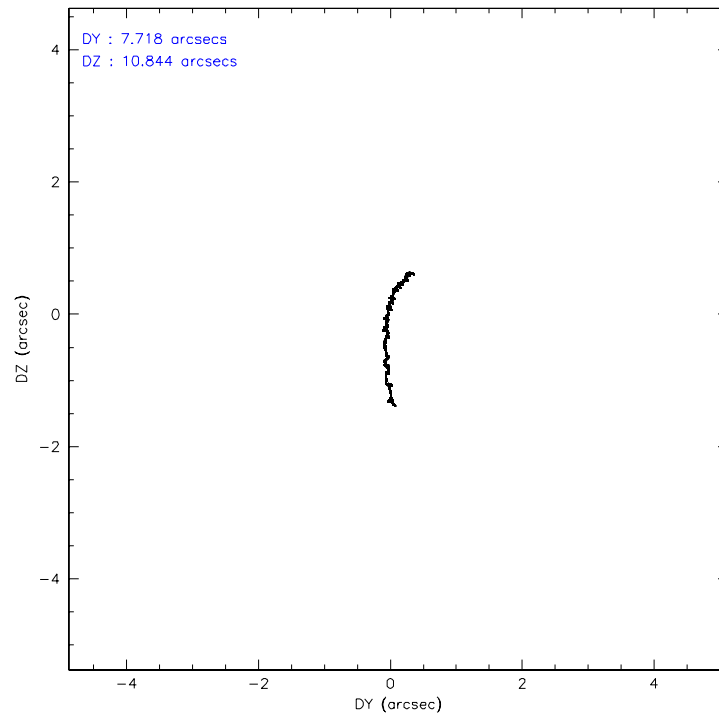
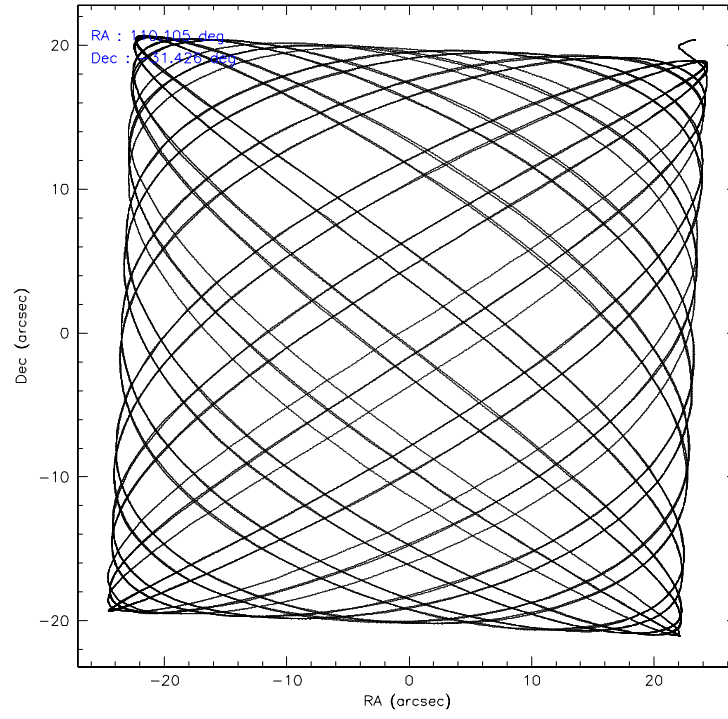
Level 1 Events

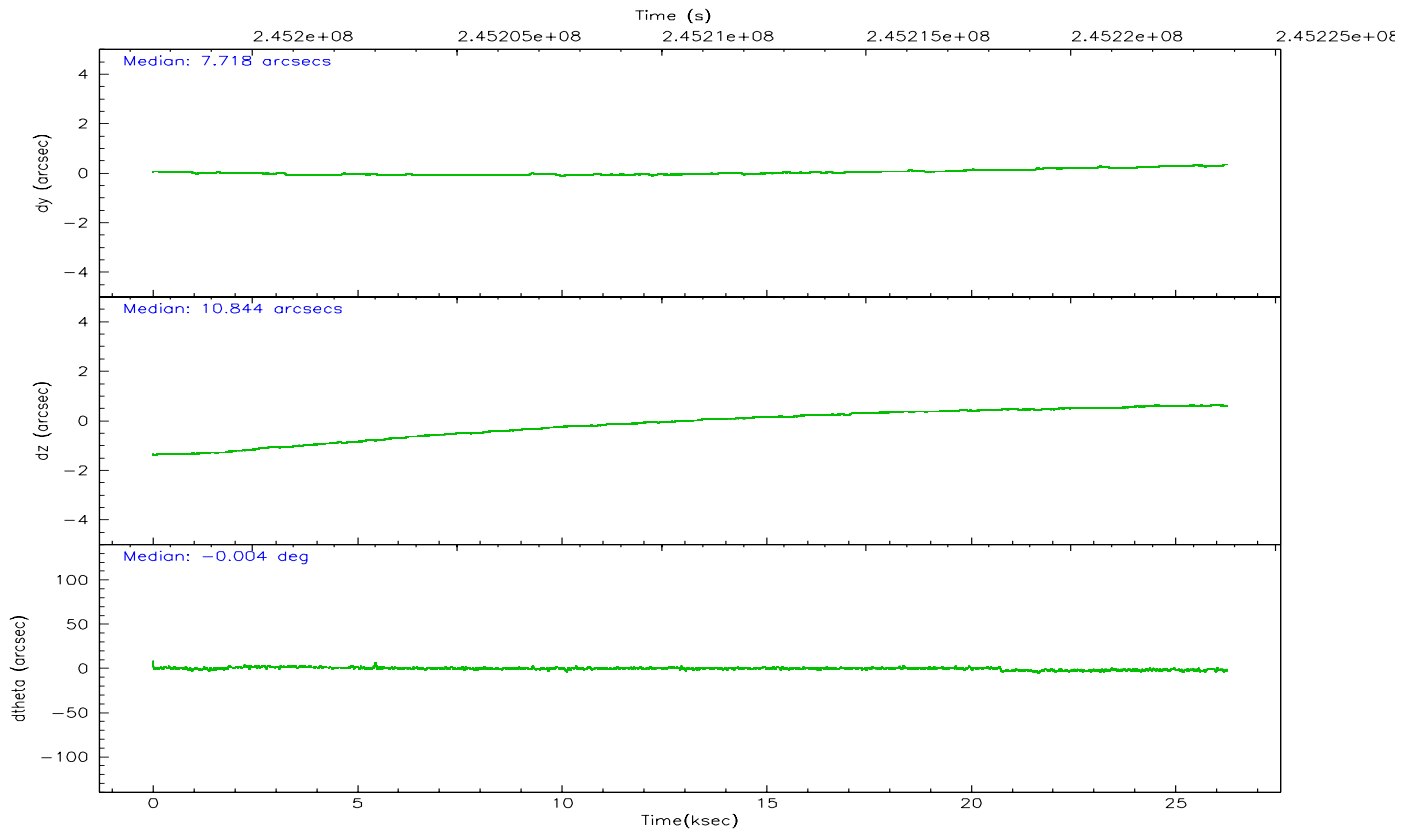
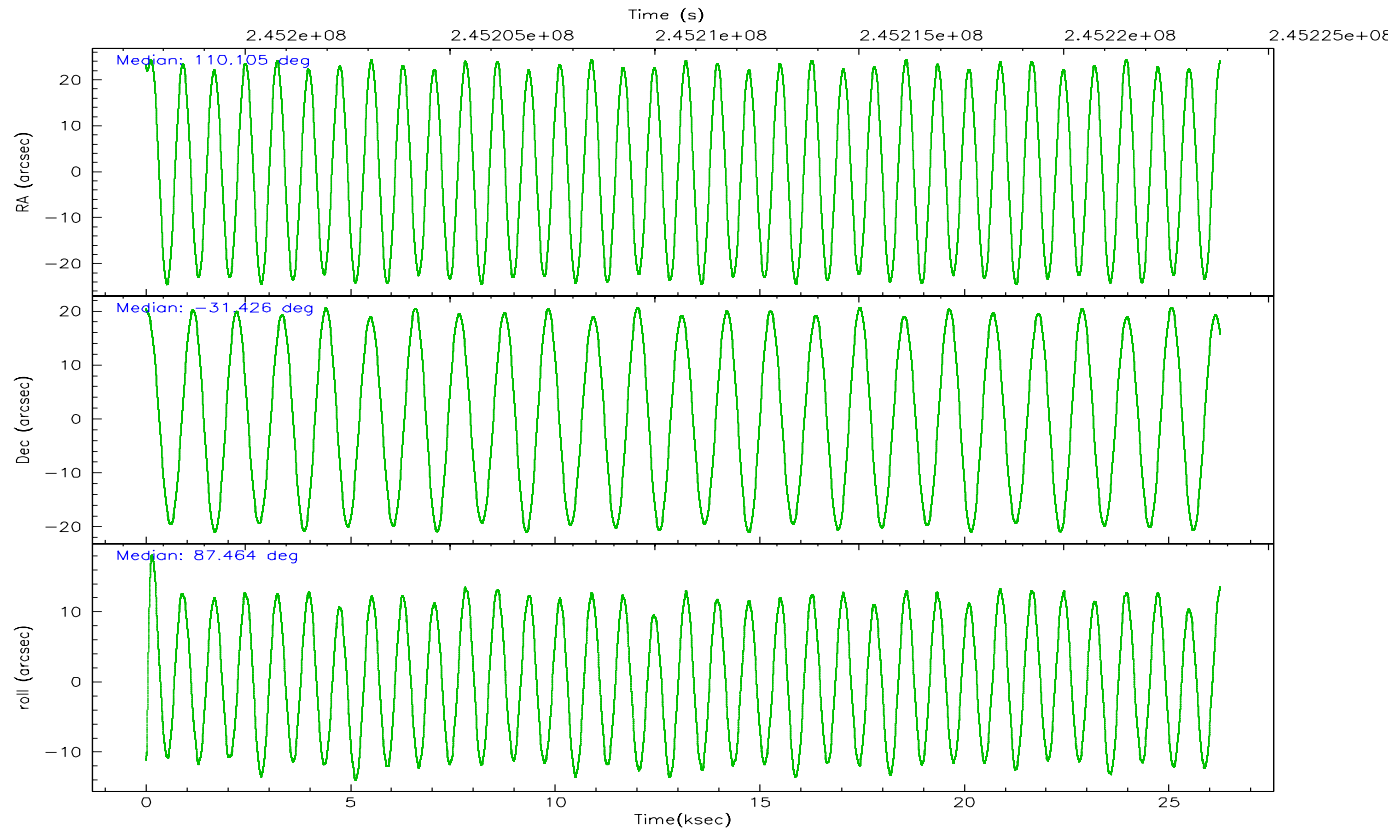
	segment 1	segment 2	segment 3
level 1 events	868590	834599	847117
rejected events	189411	201432	217016
rejected %	21%	24%	25%

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	110.1045771506297			
Pointing Dec	-31.450635	-31.42593261114411			
Pointing Roll	87.409035	87.46753826560959			
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	245197724.184000	245196681.793			
Observation start date	2005-10-08T22:27:40	2005-10-08T22:11:21			
Observation end time	245223824.184000	245224572.04428			
Observation end date	2005-10-09T05:42:40	2005-10-09T05:56:12			

2.3 Aspect



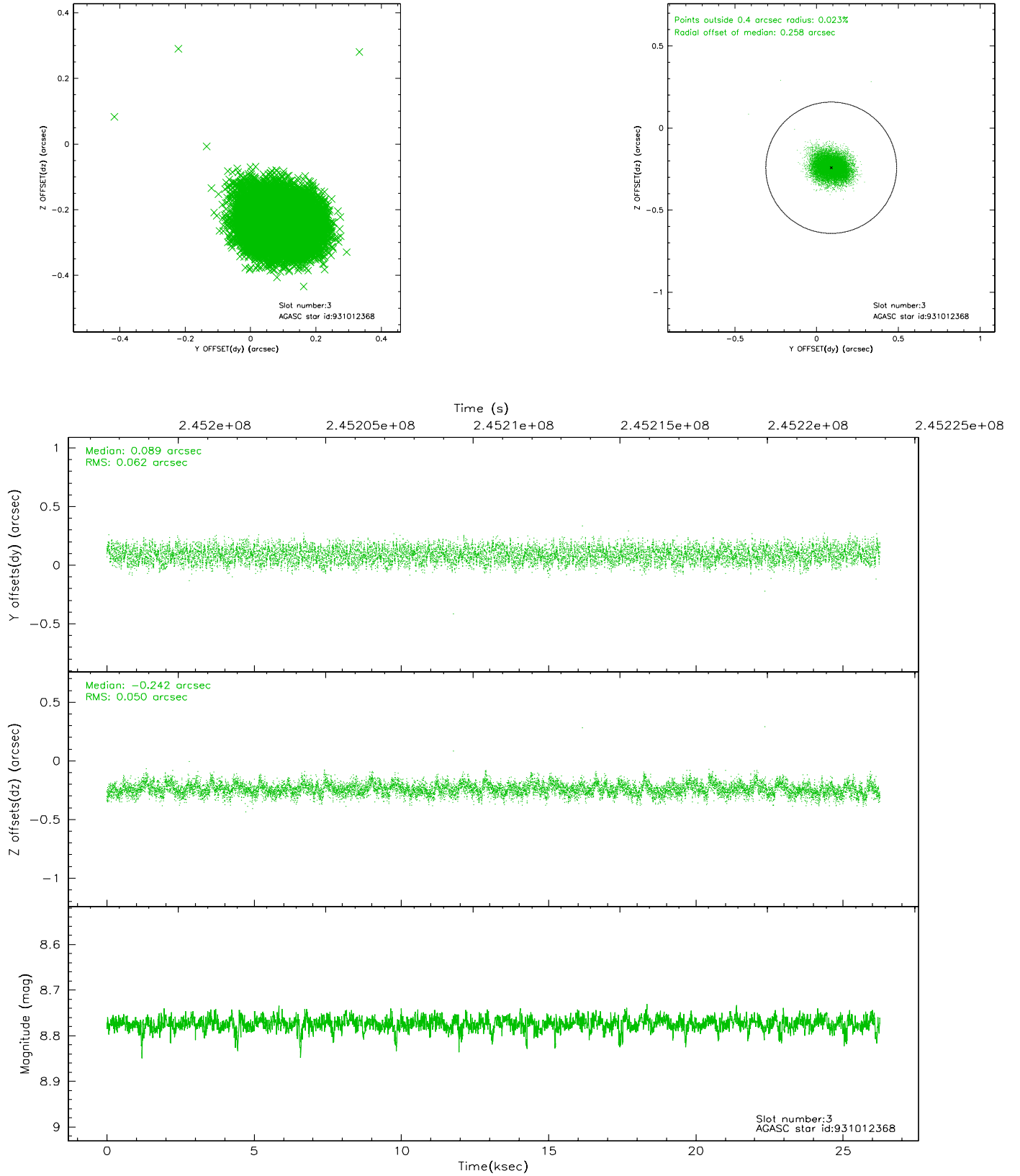


Slot Statistics

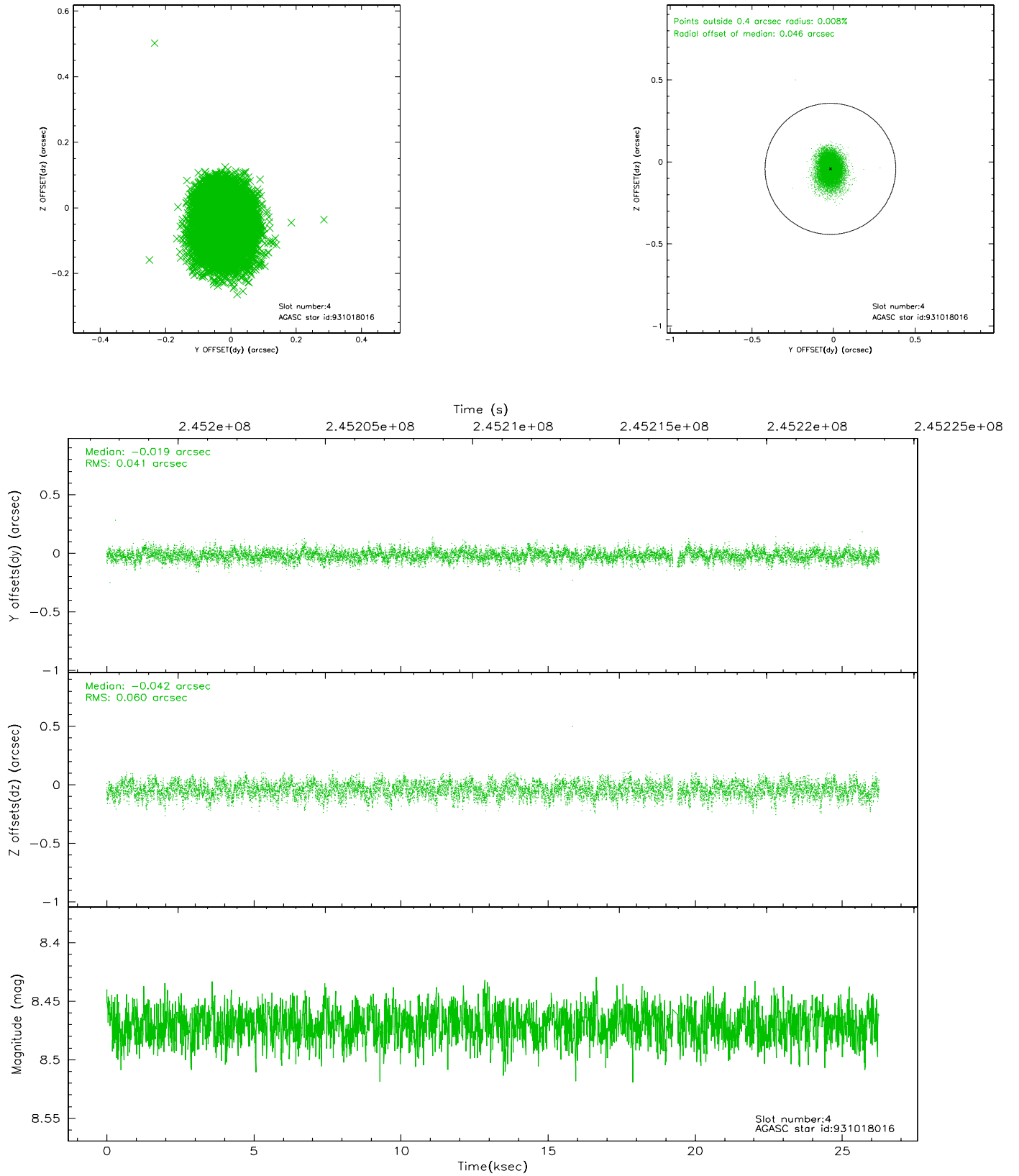
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-S-1	7.02	6404	0.078	-0.134	0.005	0.019	0.000000	0.000000	-1161.97	-459.40
1	FID	HRC-S-2	7.01	6403	0.117	-0.132	0.027	0.045	0.000000	0.000000	1237.57	-452.08
2	FID	HRC-S-4	6.99	6403	0.208	-0.039	0.025	0.046	0.000000	0.000000	1236.60	572.75
3	GUIDE	931012368	8.77	12790	0.089	-0.242	0.085	0.133	109.359817	-31.783345	-1310.12	2273.72
4	GUIDE	931018016	8.47	12729	-0.019	-0.042	0.077	0.125	109.684535	-31.226562	742.06	1380.28
5	GUIDE	931025288	8.45	12804	-0.005	-0.070	0.068	0.108	109.511084	-30.937793	1753.88	1966.39
6	GUIDE	931695048	7.37	12805	-0.007	0.170	0.068	0.104	110.648539	-32.046020	-2072.21	-1703.49
7	GUIDE	931160352	8.65	12807	-0.058	0.183	0.074	0.119	110.268138	-30.864891	2126.60	-357.07

2.4 Star Slots

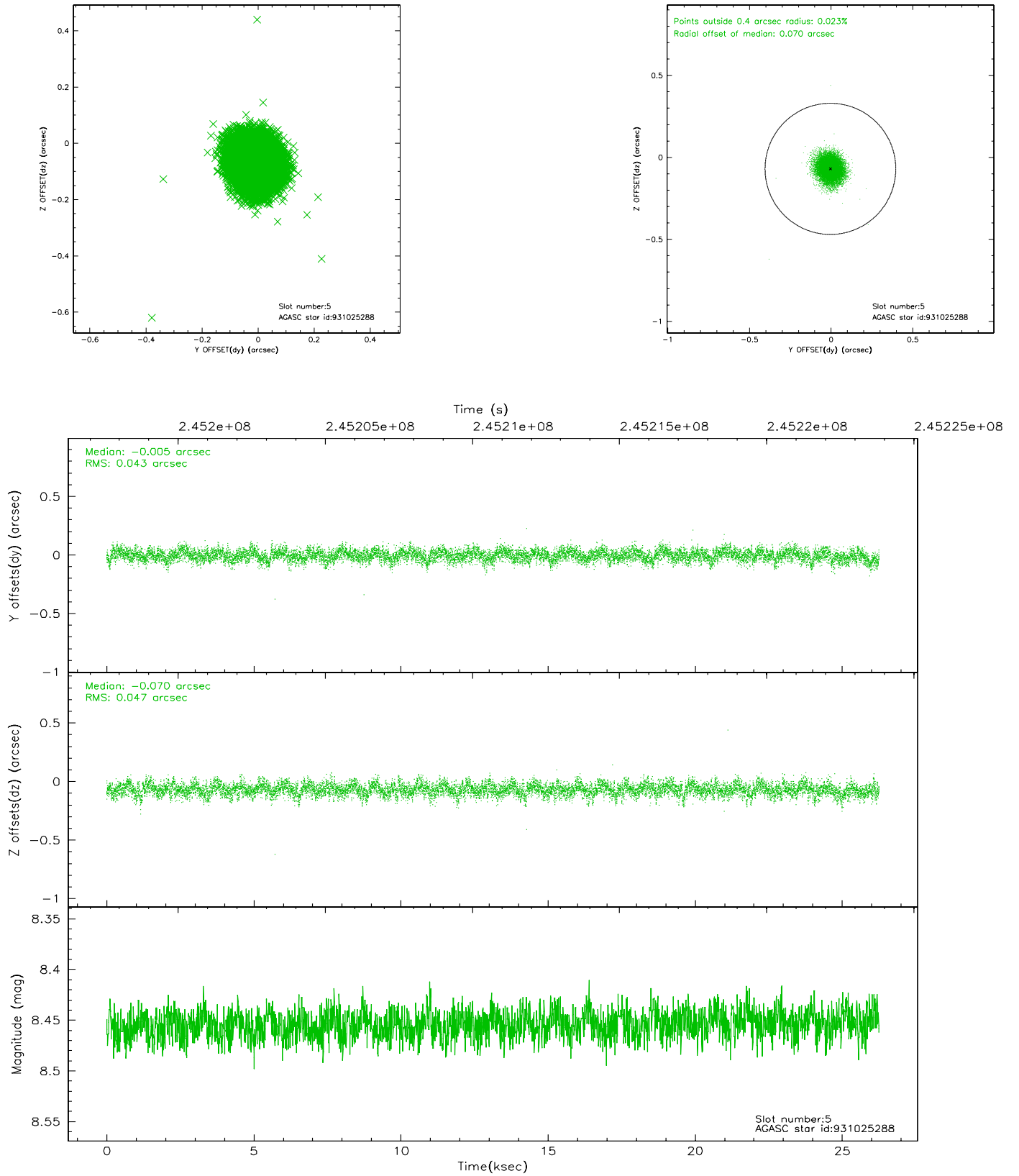
2.4.1 Slot 3



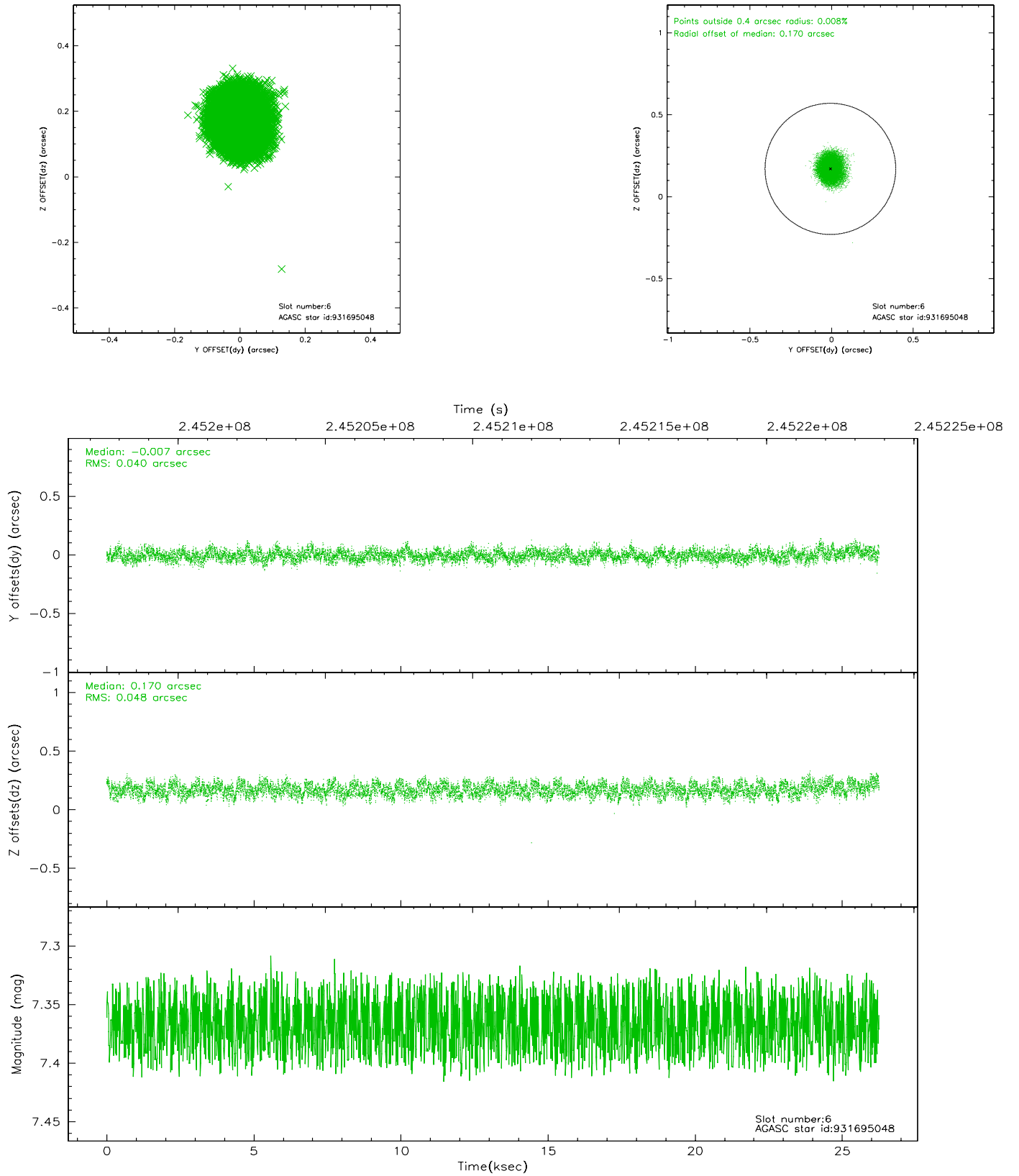
2.4.2 Slot 4



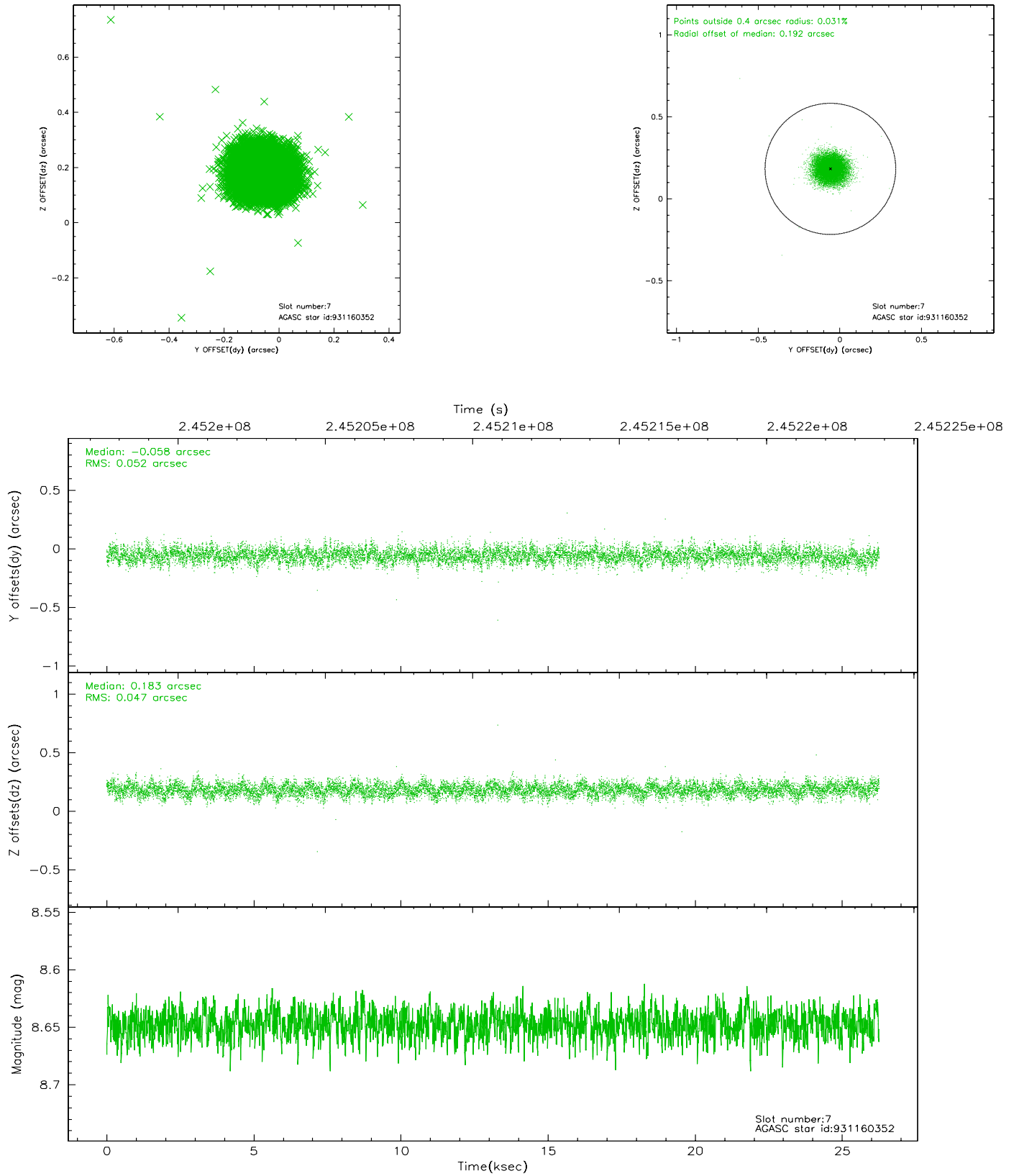
2.4.3 Slot 5



2.4.4 Slot 6

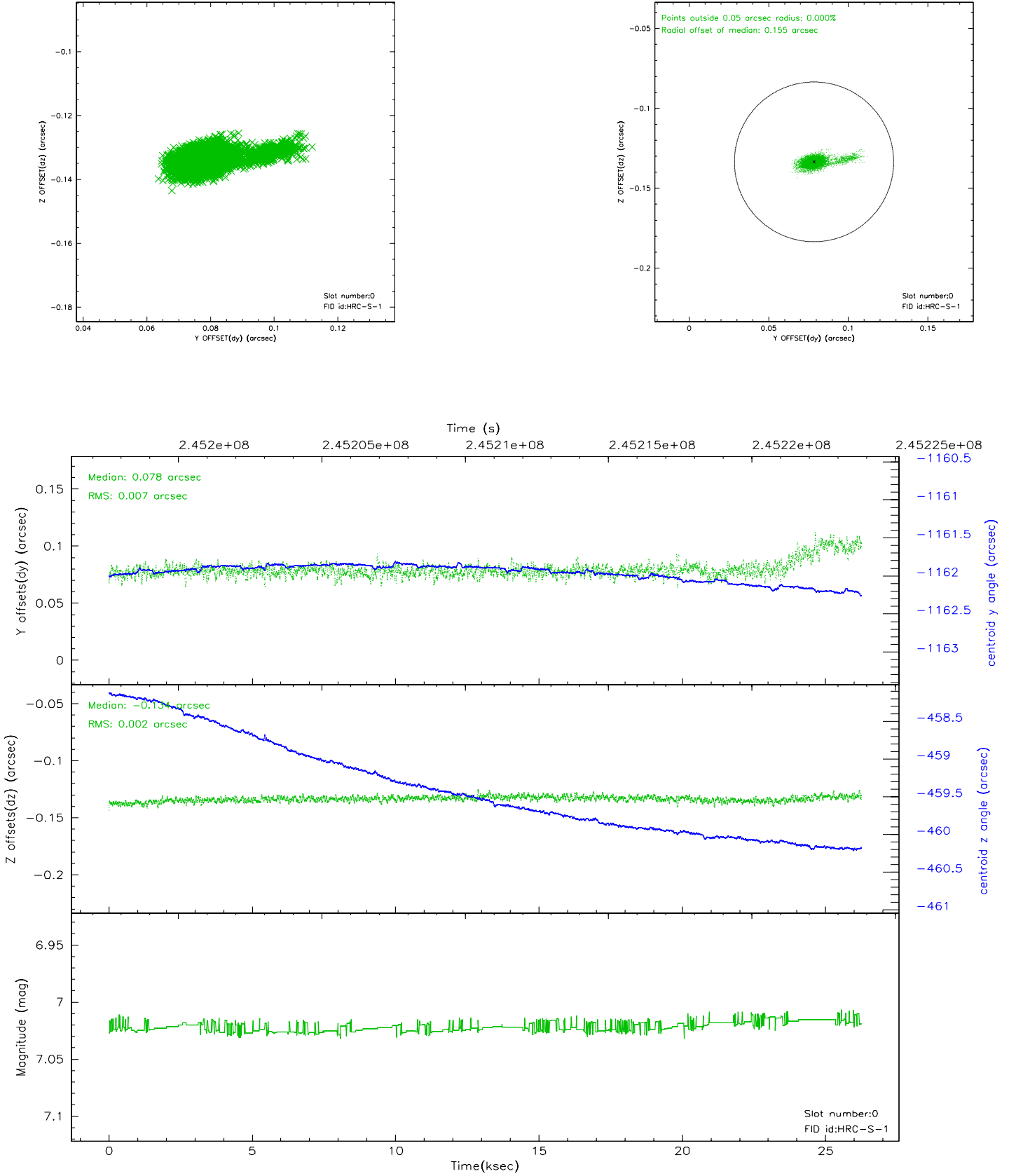


2.4.5 Slot 7

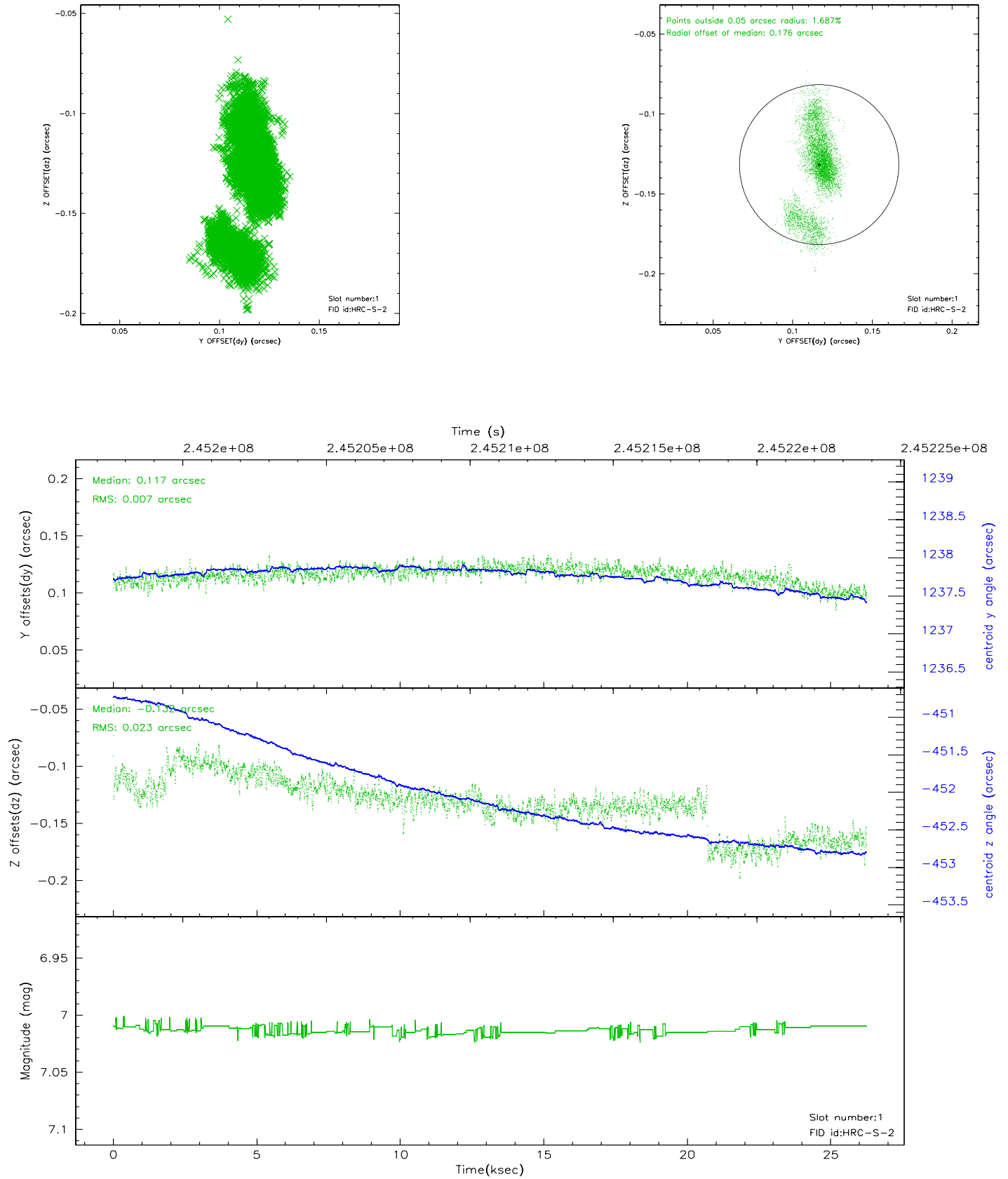


2.5 FID Slots

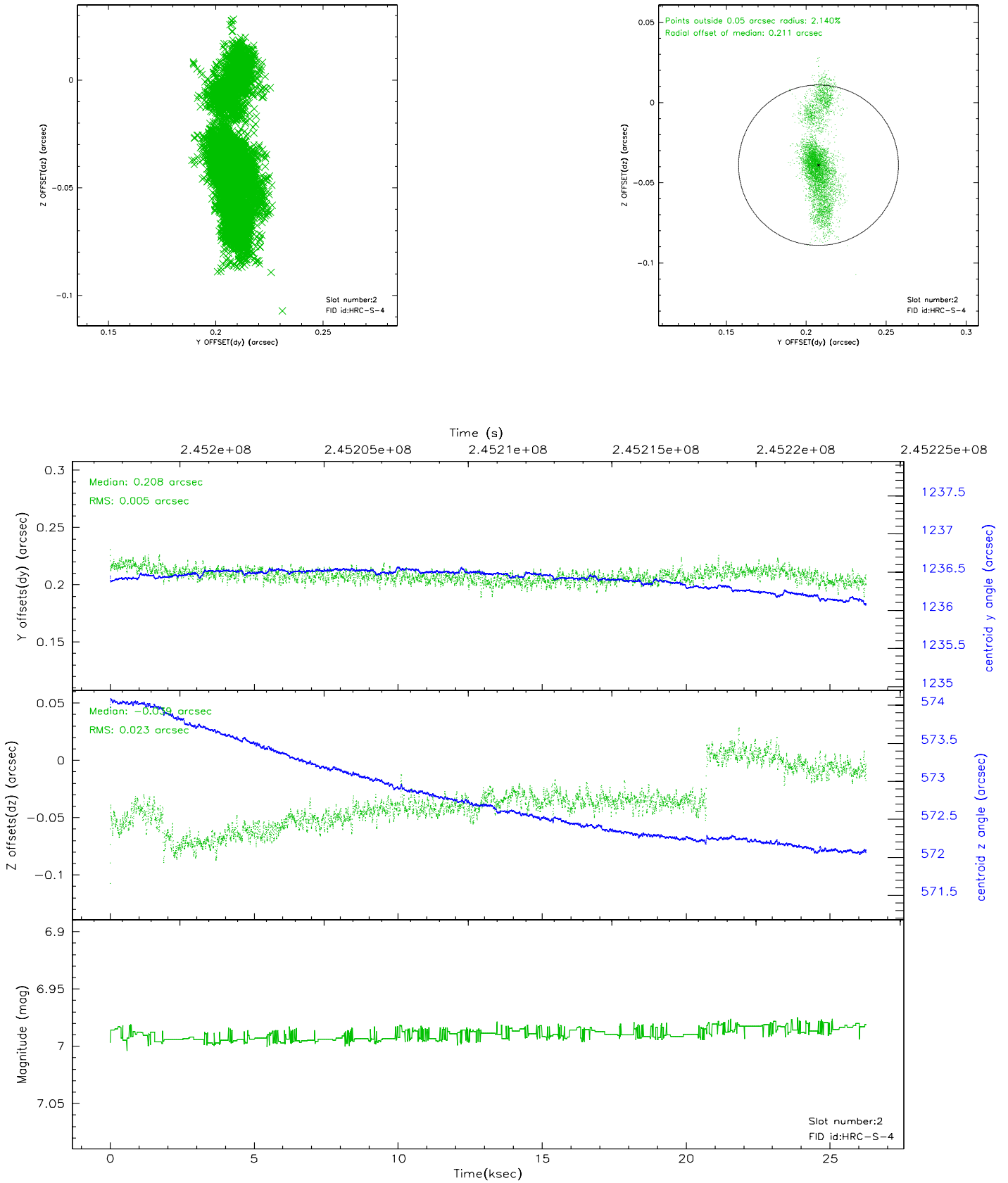
2.5.1 Slot 0



2.5.2 Slot 1

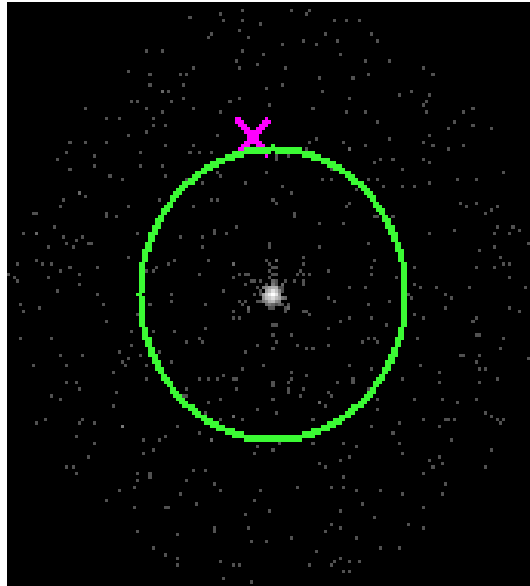


2.5.3 Slot 2



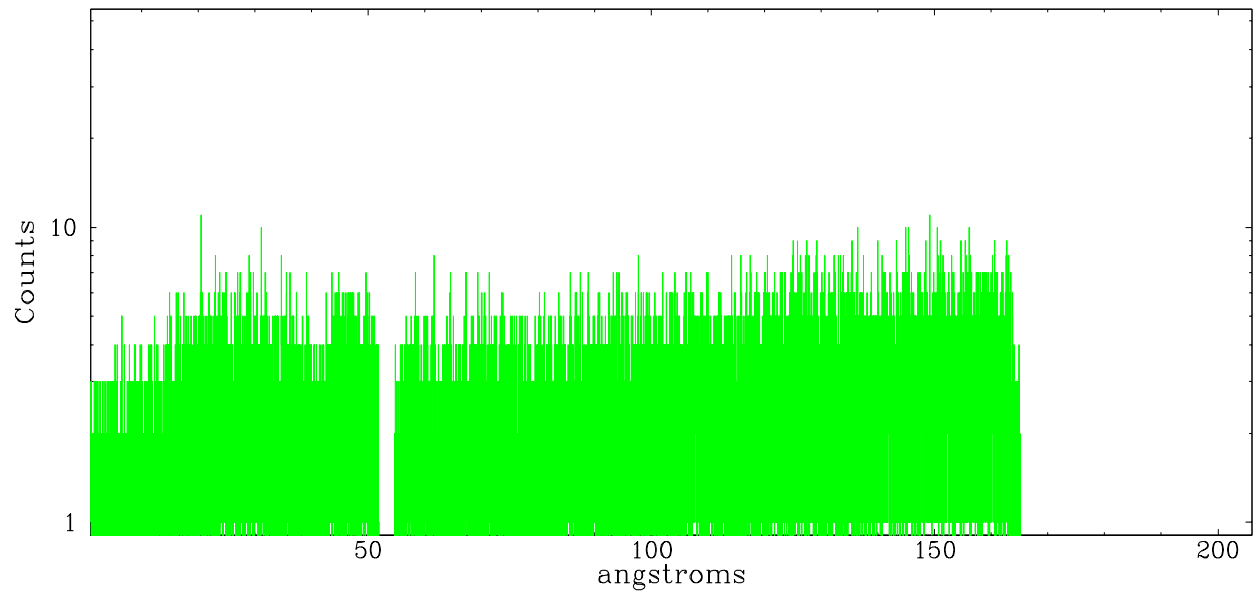
3 Gratings

3.1 LETG Arm

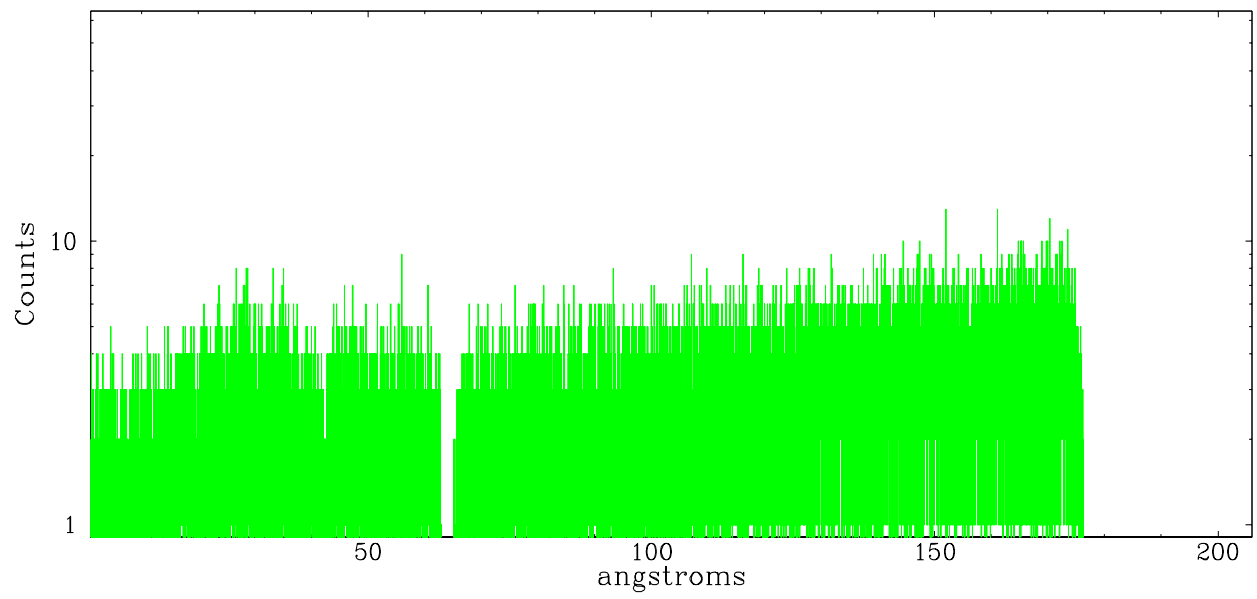


LETG Zero Order

leg order -1



leg order $+1$



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	26.25563

A.2 Comments

Numerous periods of high count rate with factors 2-3 above nominal for this observation. Could be due to radiation but may have astrophysical origin.

Monitor constraint met.