

V&V Reference Report

L2 ASCDS Version : 7.6.8.1

Observation 2568 - L2 Version 001
Chandra X-Ray Center

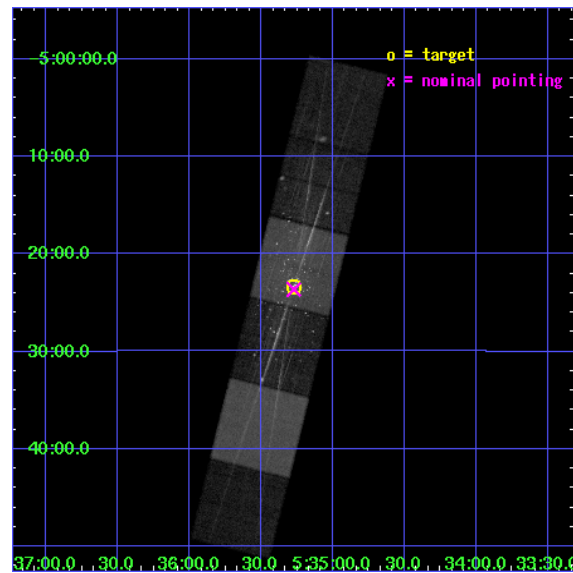
L2 Processing Date : Sep 2 2006

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1 Front

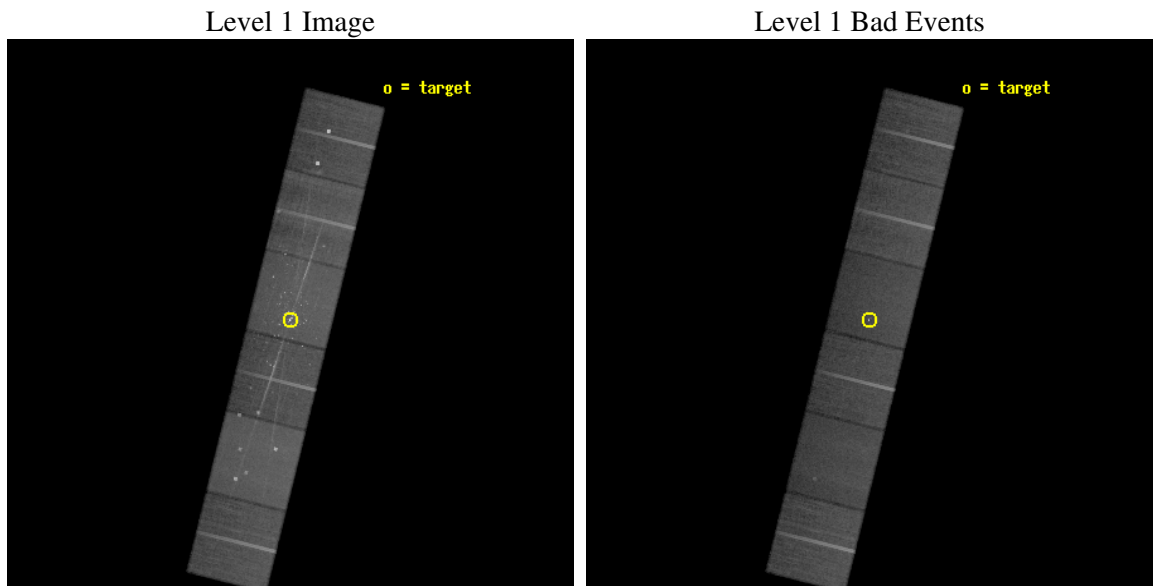
seq_num	200176
obs_id	2568
title	PHASE-RESOLVED SPECTROSCOPY OF THETA-1 ORIONIS C (O7 V)
observer	Marc Gagne
object	HD 37022
dtcycle	0
cycle	P
ra_targ	83.81875
dec_targ	-5.38975
ra_nom	83.818075596547
dec_nom	-5.3940926145916
roll_nom	283.93858111455
revision	2
ontime	46928.000043705
livetime	46333.769450503
ontime4	46928.000043705
ontime5	46928.000043705
ontime6	46928.000043705
ontime7	46928.000043705
ontime8	46928.000043705
ontime9	46927.971294895
l2events	653676



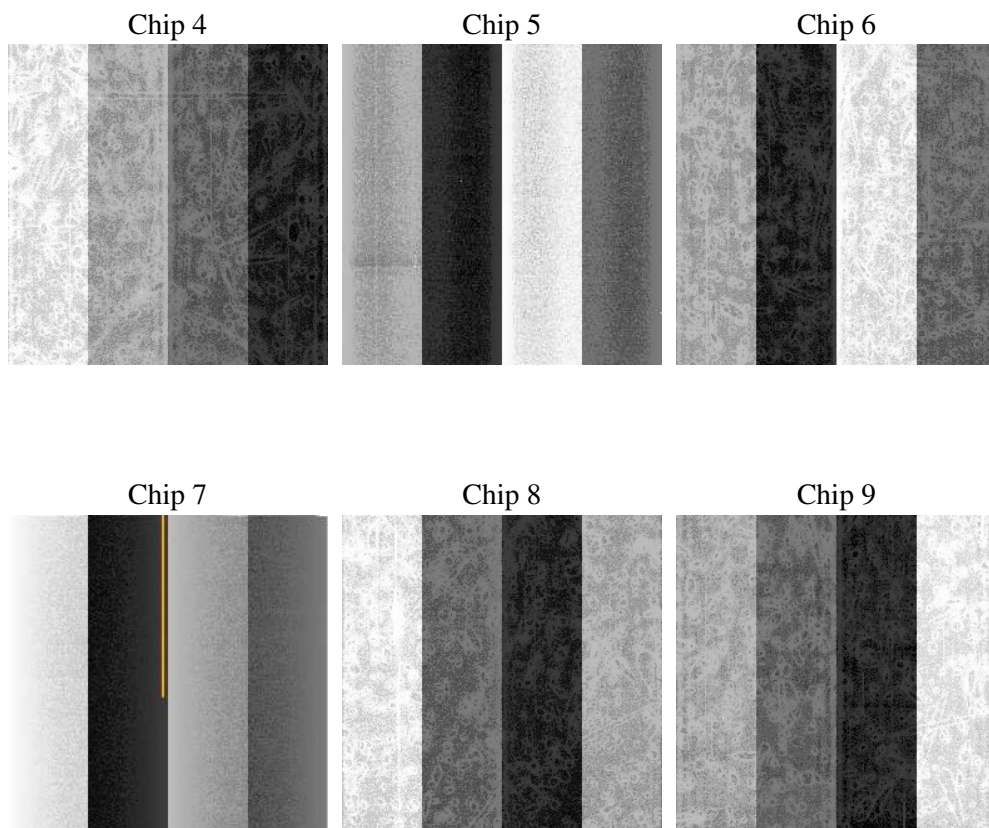
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0
ascdsver	7.6.8.1
caldsver	3.2.3
date	2006-09-02T15:06:24
revision	2

sched_exp_time	47000.000000
ontime	46932.922075748
ontime4	46932.922075748
ontime5	46932.922075748
ontime6	46932.922075748
ontime7	46932.922075748
ontime8	46932.922075748
ontime9	46932.922075748
l1events	2481767

2.1.4 Events

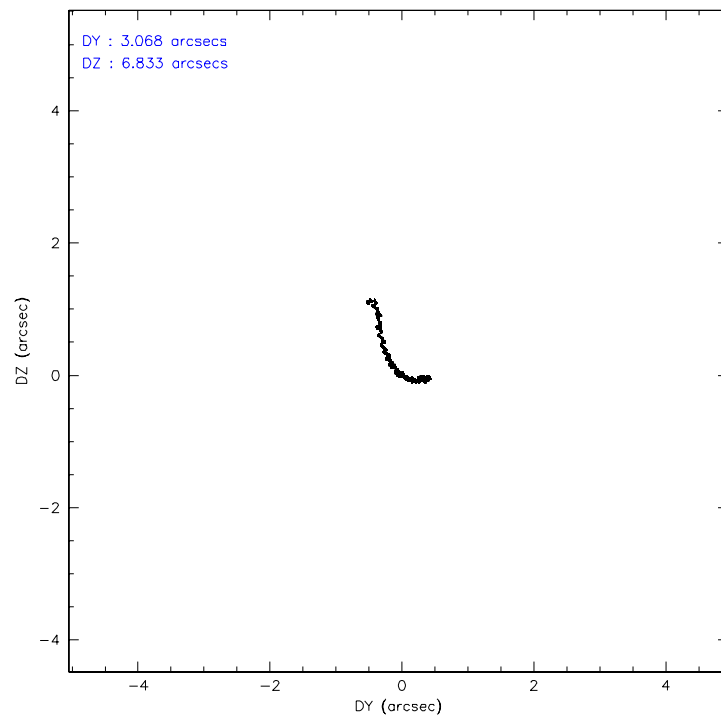
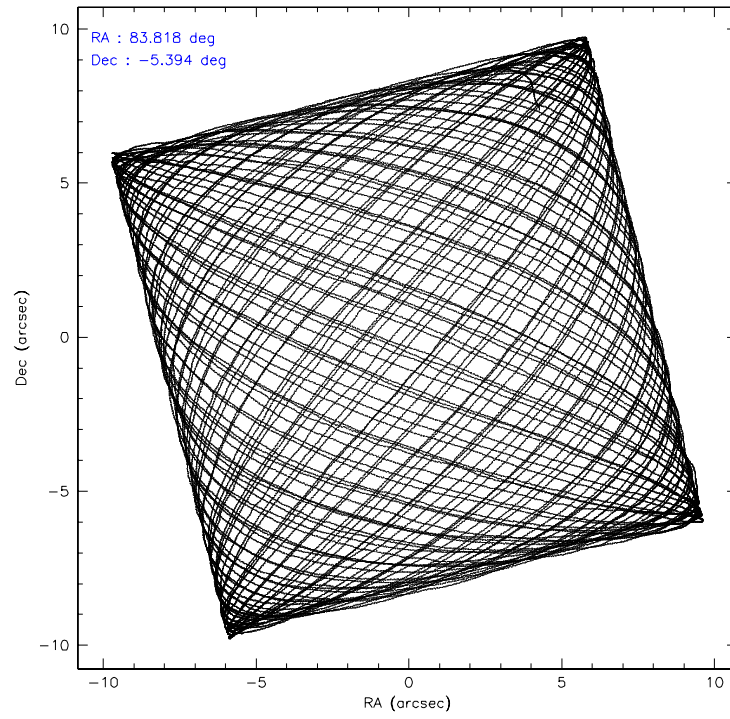
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	361333	476521	366246	495200	426747	355720
rejected events	317214	251154	281244	256742	314746	281135
rejected %	87%	52%	76%	51%	73%	79%

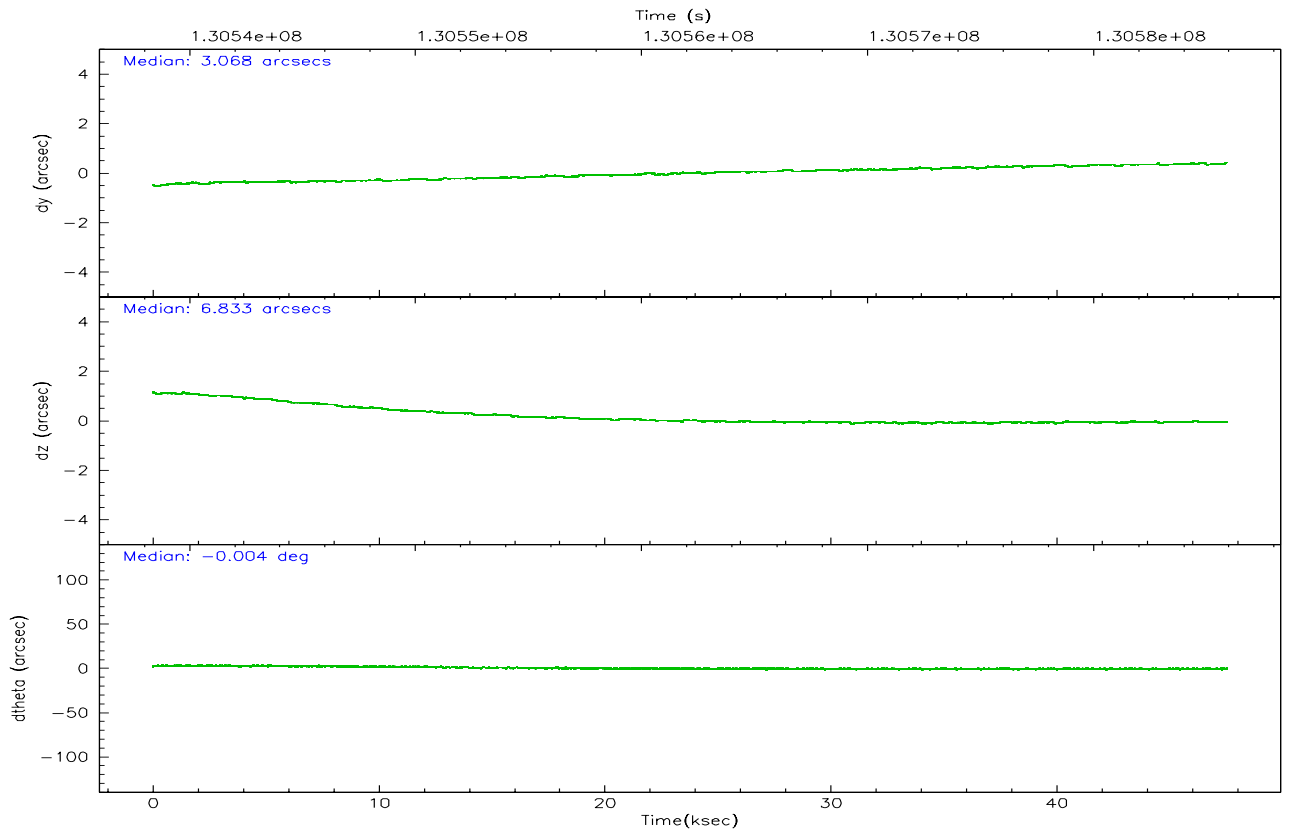
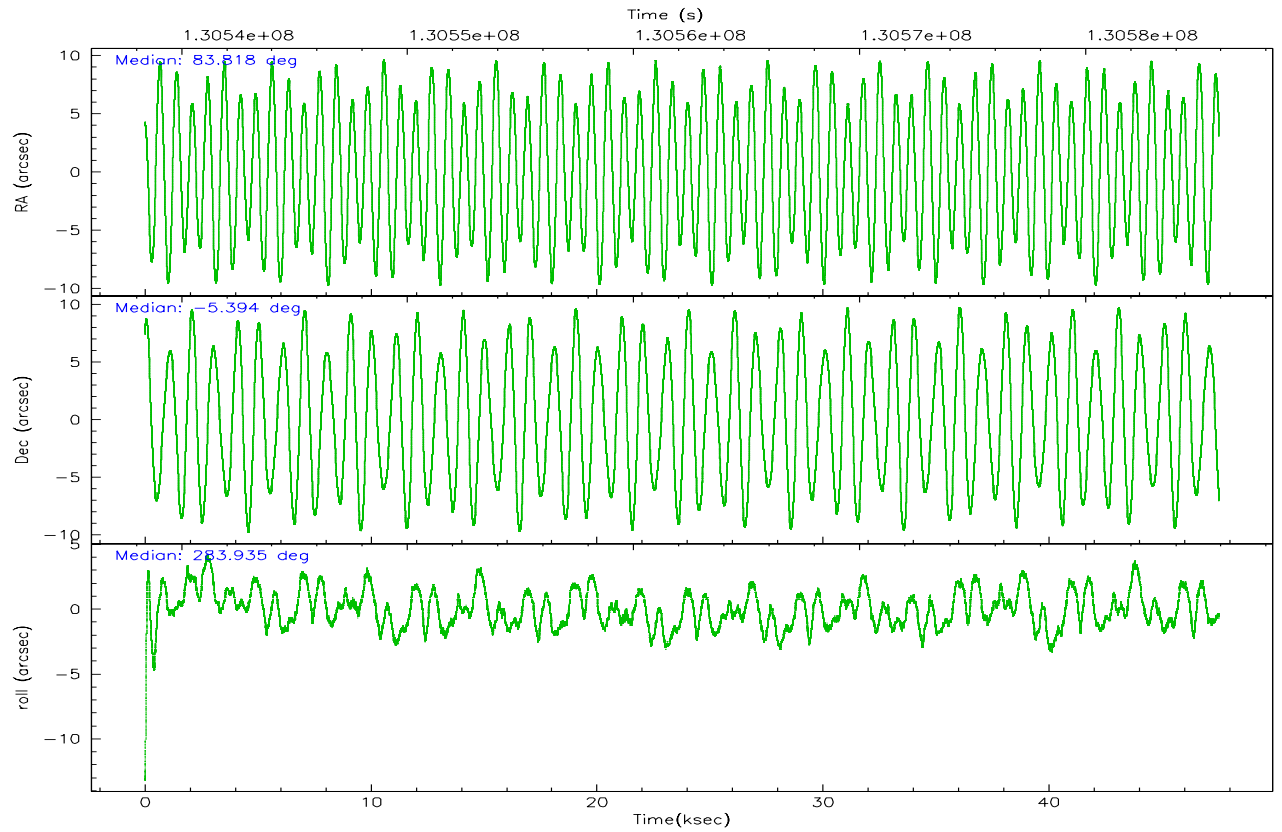
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	19529	28832	52276	25712	49234	48746
	5%	6%	14%	5%	11%	13%
grade 1 events	188	882	338	413	342	282
	0%	0%	0%	0%	0%	0%
grade 2 events	10193	67877	12761	61949	21396	9946
	2%	14%	3%	12%	5%	2%
grade 3 events	3699	5984	5381	16317	9808	4026
	1%	1%	1%	3%	2%	1%
grade 4 events	3607	5626	5366	16303	9130	3871
	0%	1%	1%	3%	2%	1%
grade 5 events	11801	22364	13991	29214	17611	13933
	3%	4%	3%	5%	4%	3%
grade 6 events	7094	117072	9226	118185	22439	8006
	1%	24%	2%	23%	5%	2%
grade 7 events	305222	227884	266907	227107	296787	266910
	84%	47%	72%	45%	69%	75%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-456789	ACIS-456789	Obspar file type	PREDICTED	ACTUAL
Grating	HETG	HETG	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	On-chip summing requested	N	N
Observation mode	POINTING	POINTING	Subarray requested	NONE	NONE
Pointing RA	83.798849	83.81807559654699	Alternating exposures requested	N	N
Pointing Dec	-5.374707	-5.394092614591641	Primary exposure time	0.000000	3.2
Pointing Roll	283.780149	283.9385811145527			
SIM focus pos (mm)	-0.684267	-0.6828225247311905			
SIM defocus (mm)	0	0.001444936568705701			
SIM translation stage pos (mm)	-190.132523	-190.1425803651734			
SIM translation stage offset (mm)	0	0.01005778216563158			
Phase constraints	Y	Y			
Phase period	15.422000	15.422000			
Phase epoch	51392.550000	51392.550000			
Phase start	0.479000	0.479000			
Phase end	0.521000	0.521000			
Phase start error	0.030000	0.030000			
Phase end error	0.030000	0.030000			
Observation start time	130538919.184000	130537782.42284			
Observation start date	2002-02-19T20:47:35	2002-02-19T20:29:42			
Observation end time	130585919.184000	130586519.12481			
Observation end date	2002-02-20T09:50:55	2002-02-20T10:01:59			
Read mode	TIMED	TIMED			

2.3 Aspect



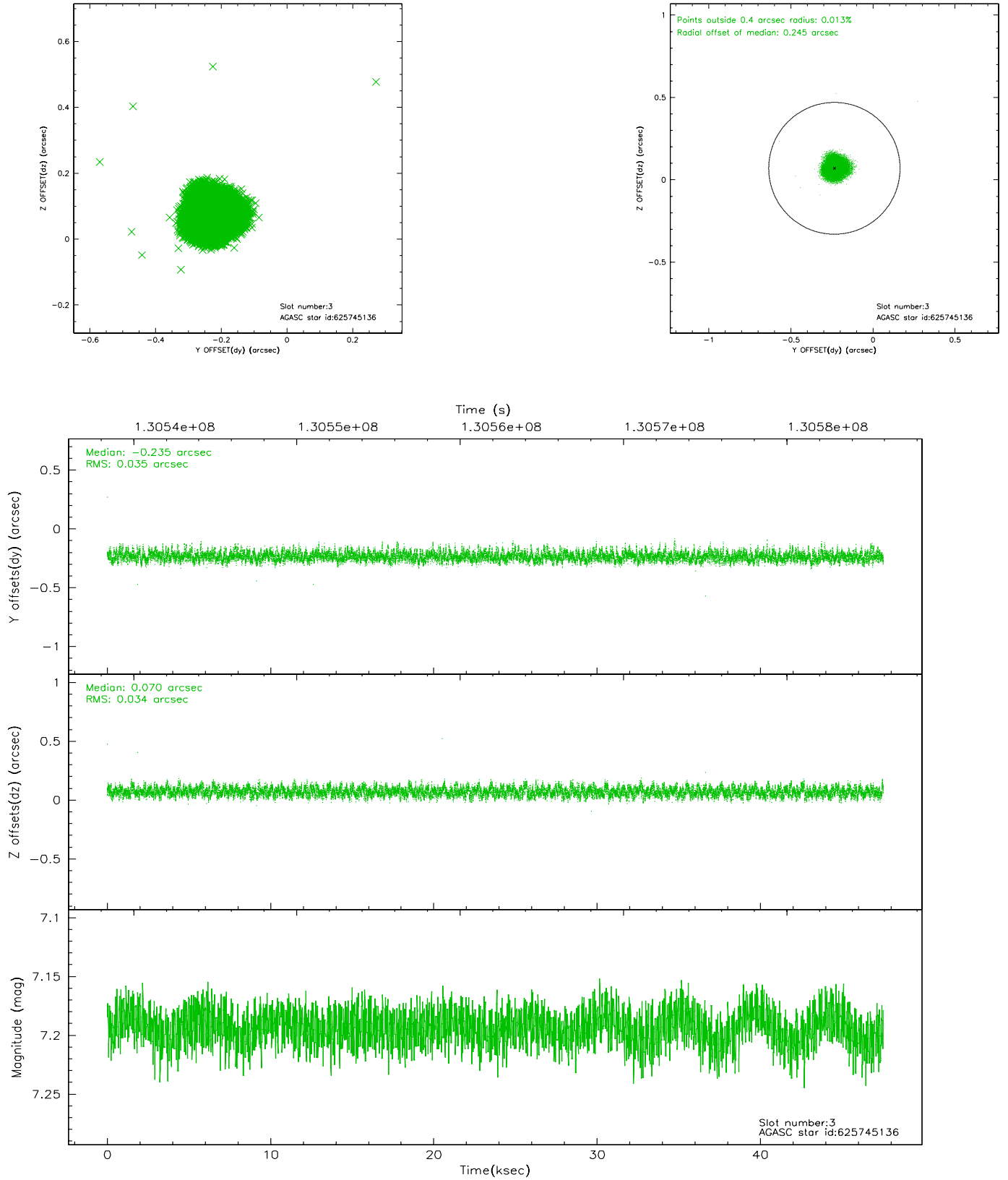


Slot Statistics

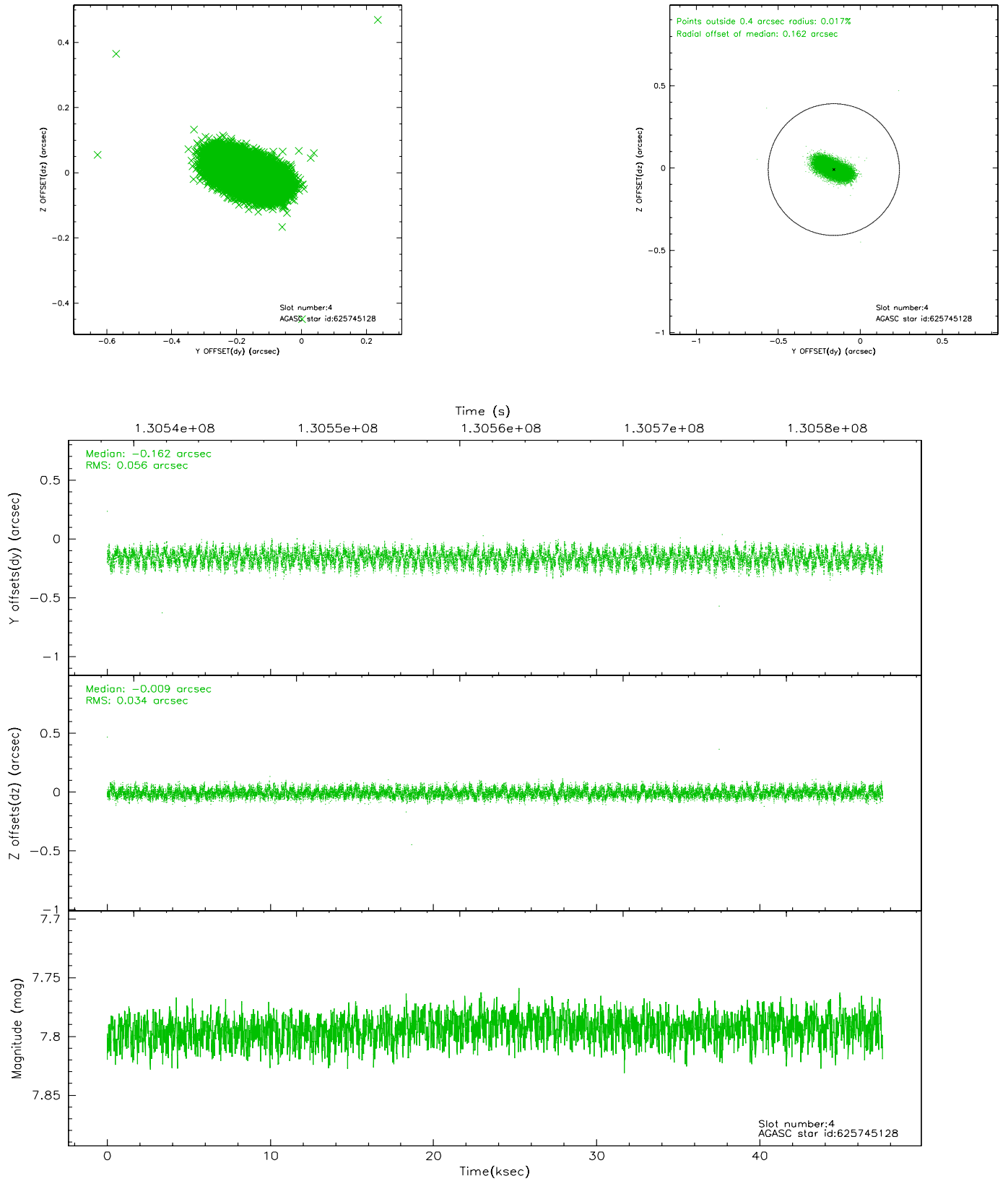
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.12	11595	-0.003	0.030	0.010	0.017	0.000000	0.000000	-755.69	-1728.12
1	FID	ACIS-S-4	7.20	11595	-0.075	-0.007	0.021	0.031	0.000000	0.000000	2157.51	180.35
2	FID	ACIS-S-5	7.24	11595	0.048	-0.014	0.014	0.022	0.000000	0.000000	-1808.51	173.98
3	GUIDE	625745136	7.19	23187	-0.235	0.070	0.053	0.082	83.600341	-4.804339	-2163.81	-202.94
4	GUIDE	625745128	7.79	23189	-0.162	-0.009	0.070	0.114	83.769930	-4.731835	-2272.55	450.02
5	GUIDE	626272880	7.69	23187	0.166	-0.012	0.078	0.121	83.815609	-6.032748	2315.32	-506.24
6	GUIDE	626272976	7.97	23189	0.197	0.008	0.059	0.091	83.795875	-5.926912	1928.67	-484.14
7	GUIDE	625869904	9.99	23168	0.027	-0.058	0.128	0.204	84.416435	-5.090874	-463.60	2393.50

2.4 Star Slots

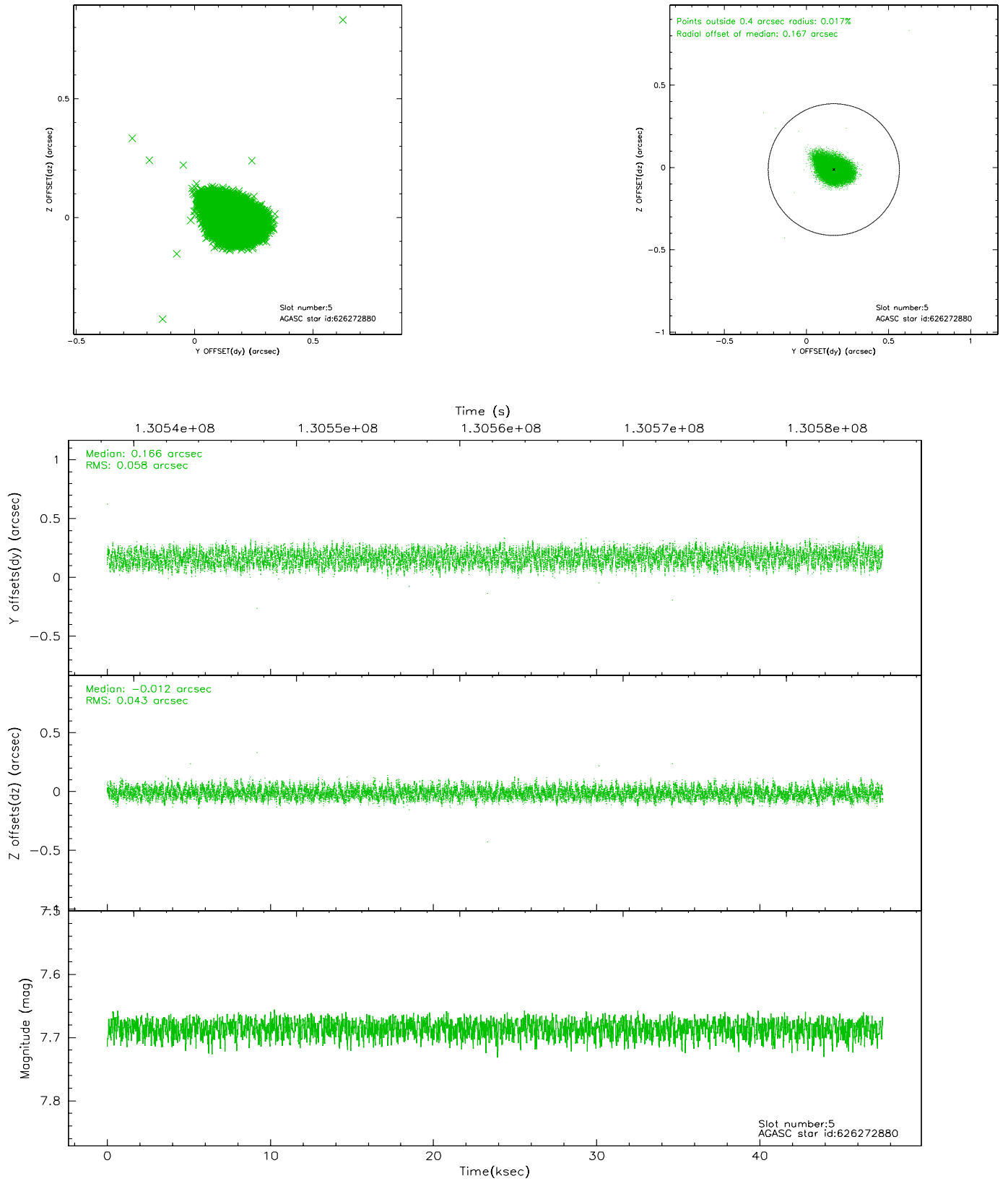
2.4.1 Slot 3



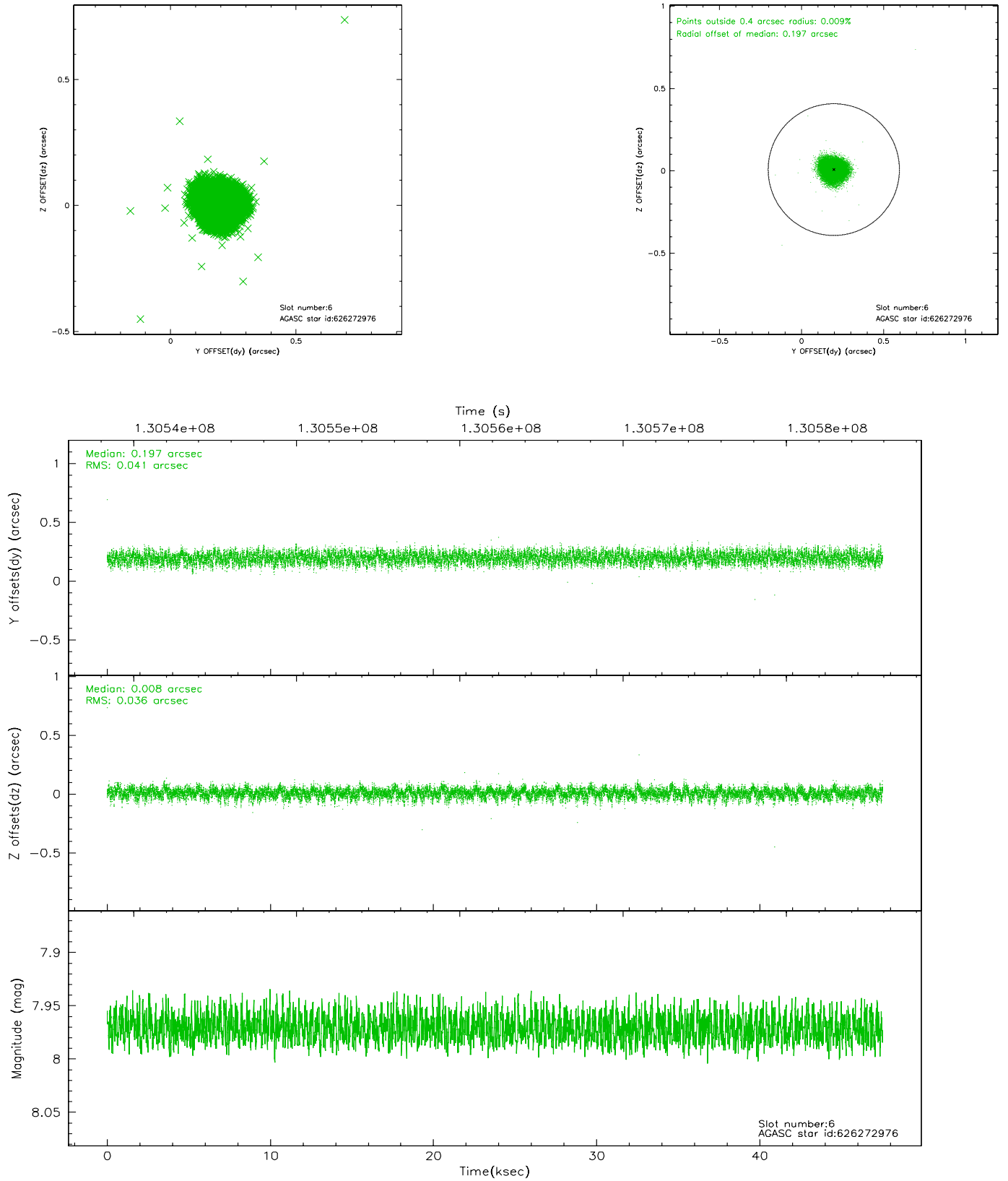
2.4.2 Slot 4



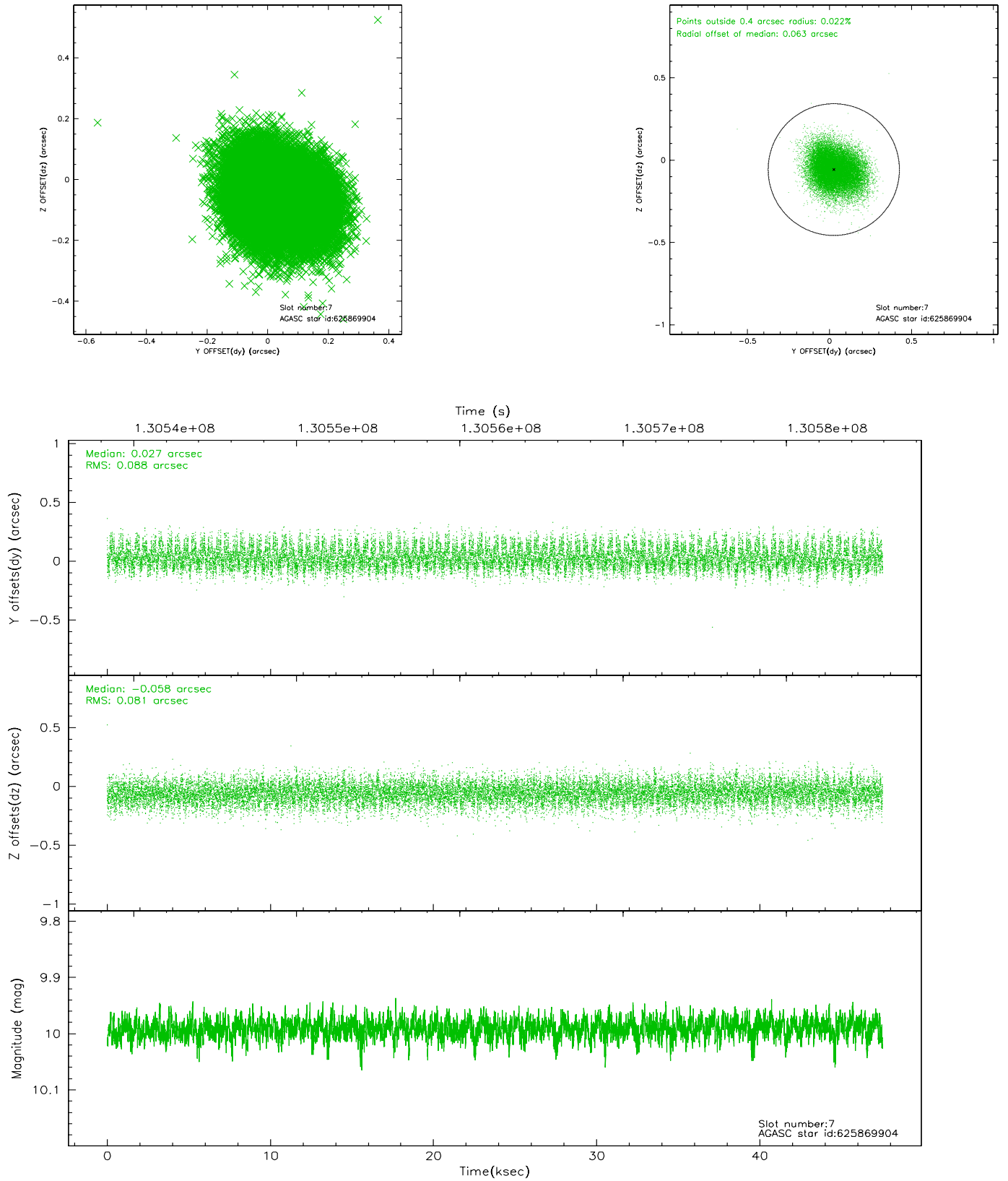
2.4.3 Slot 5



2.4.4 Slot 6

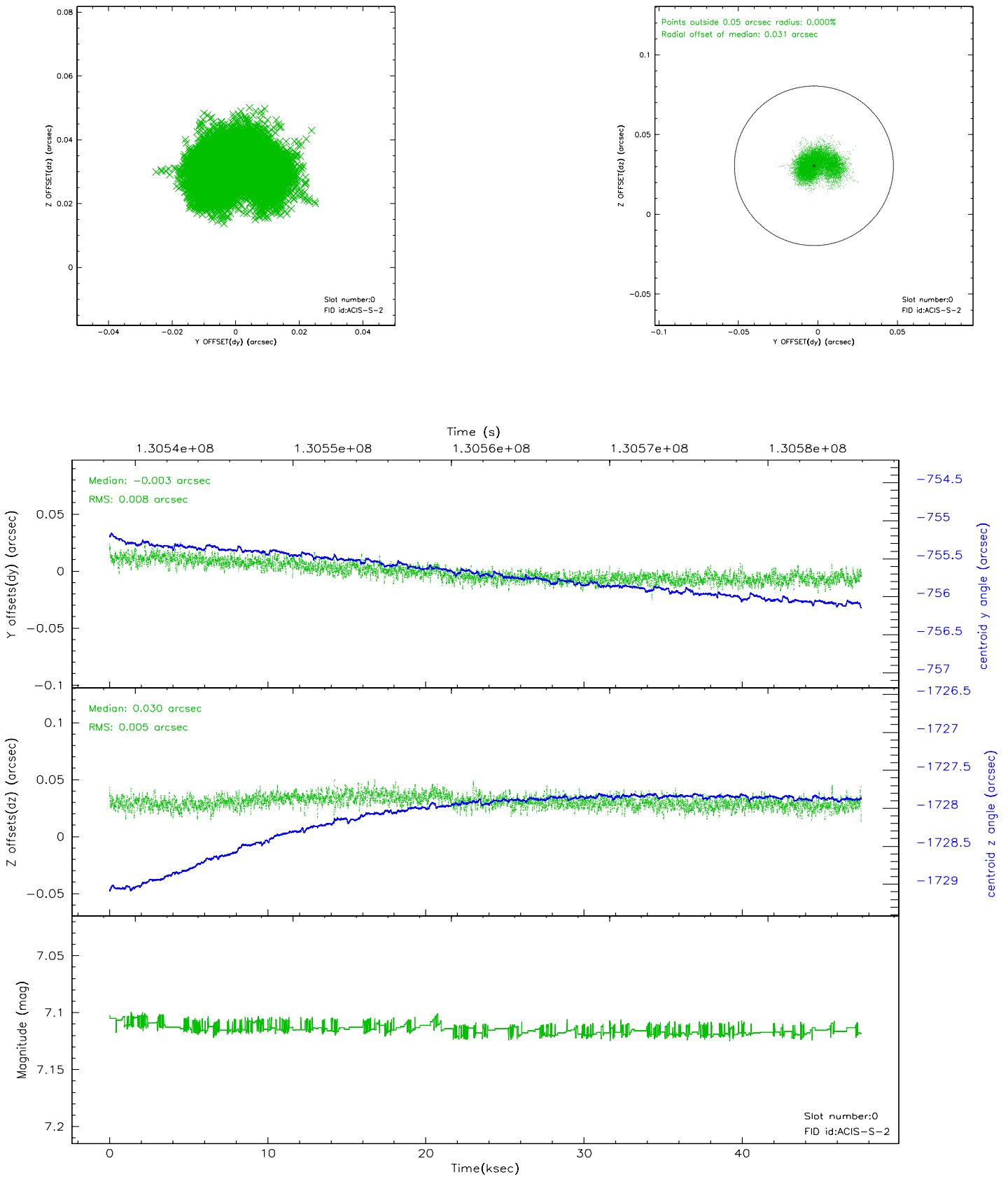


2.4.5 Slot 7

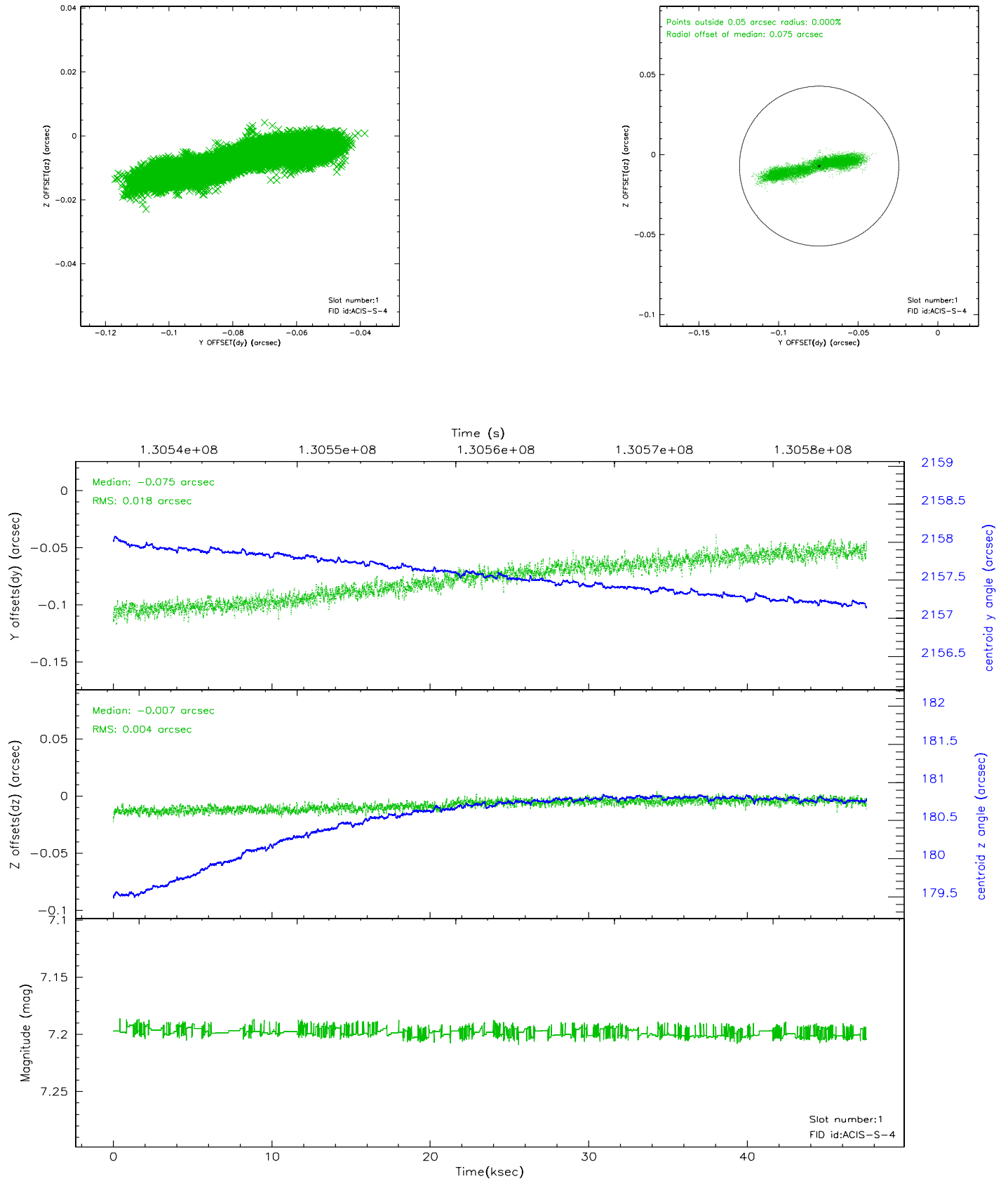


2.5 FID Slots

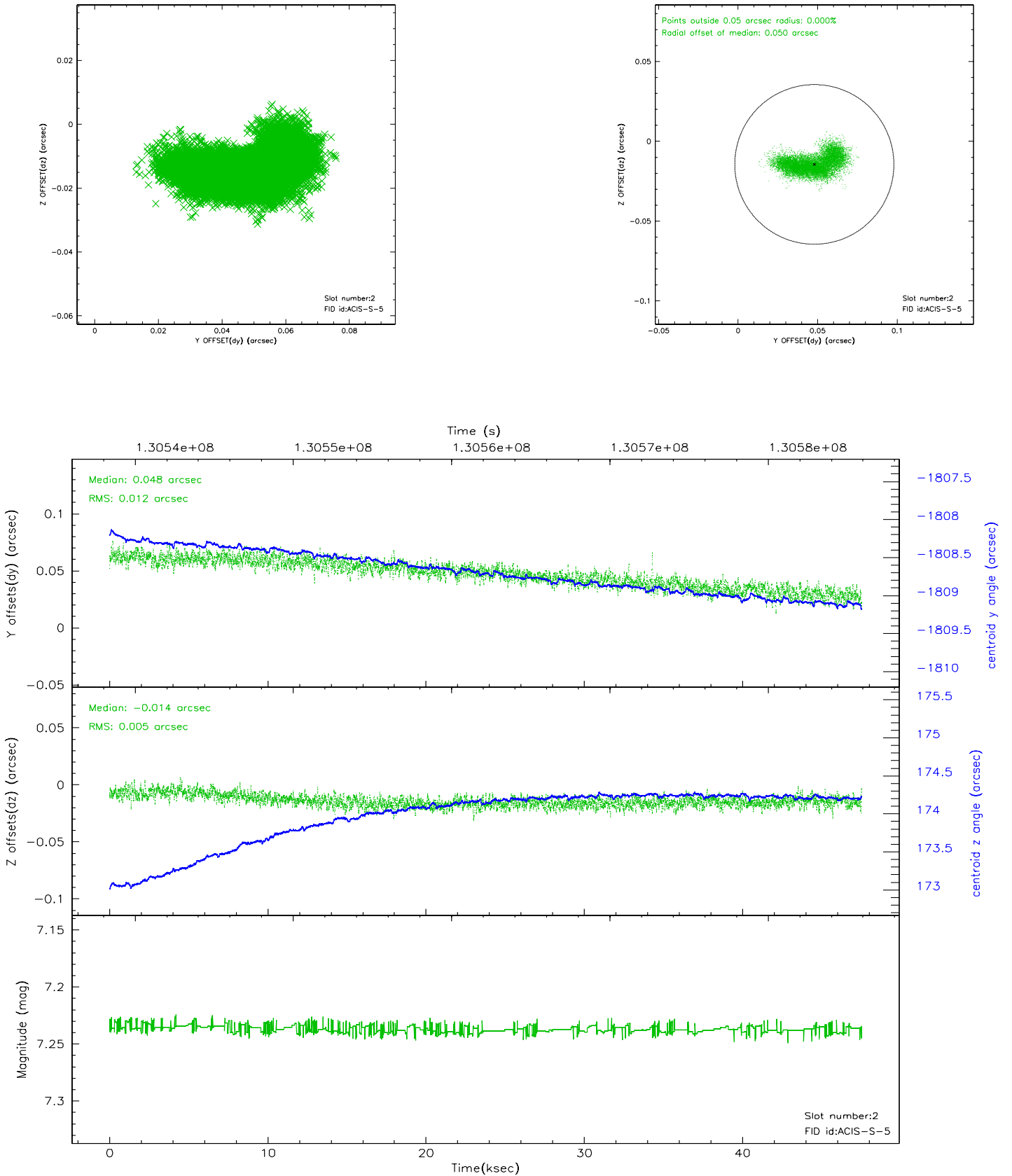
2.5.1 Slot 0



2.5.2 Slot 1

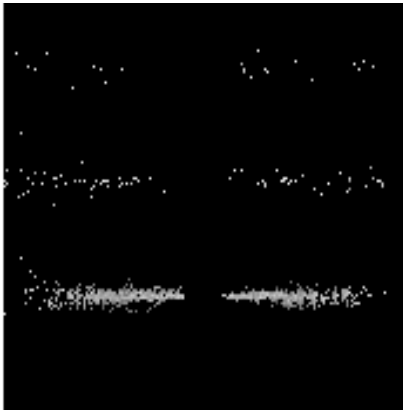


2.5.3 Slot 2

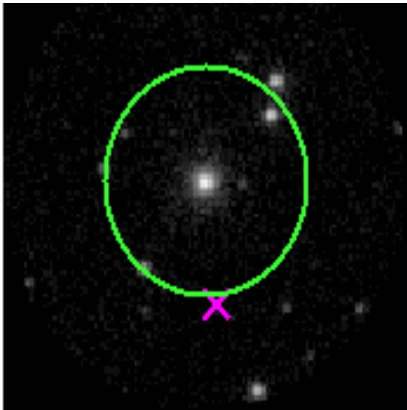


3 Gratings

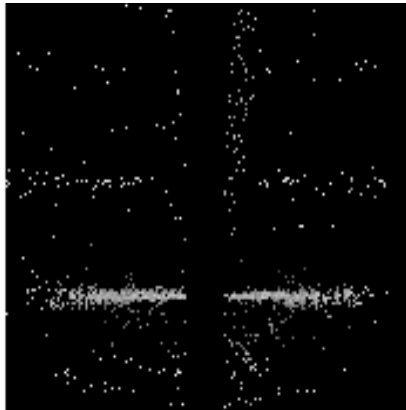
3.1 HEG Arm



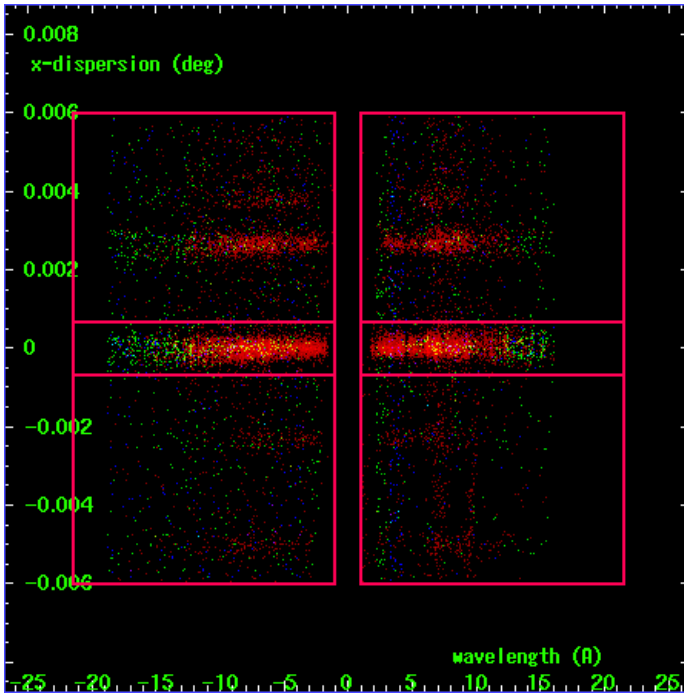
HEG Order Sort 123



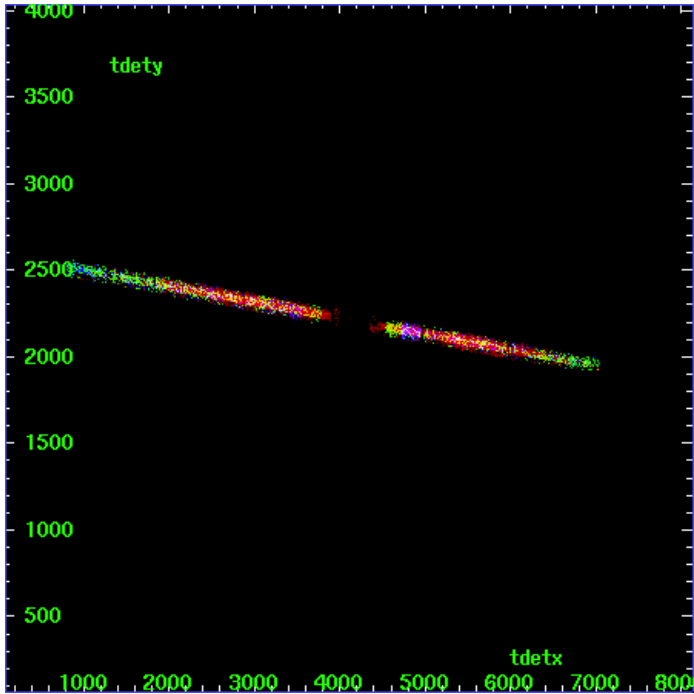
HEG Zero Order



HEG Order Sort ALL

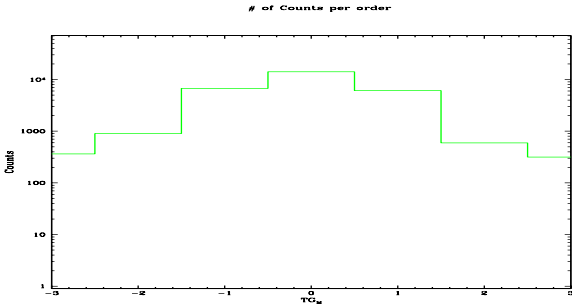


Spot Image HEG

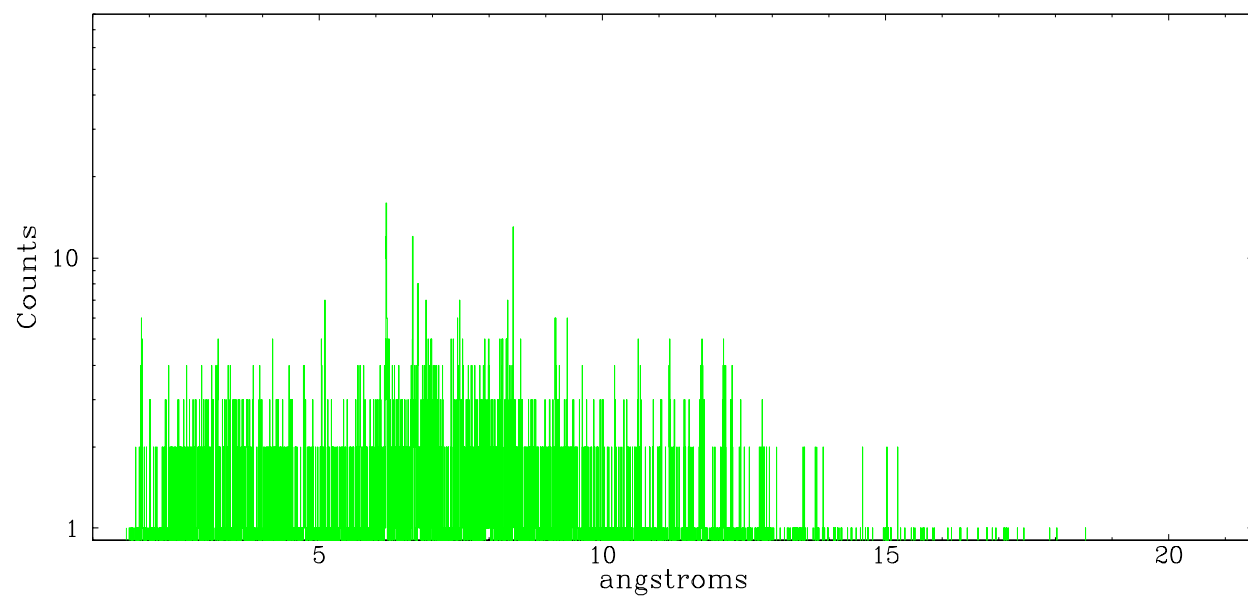


Full Detector HEG

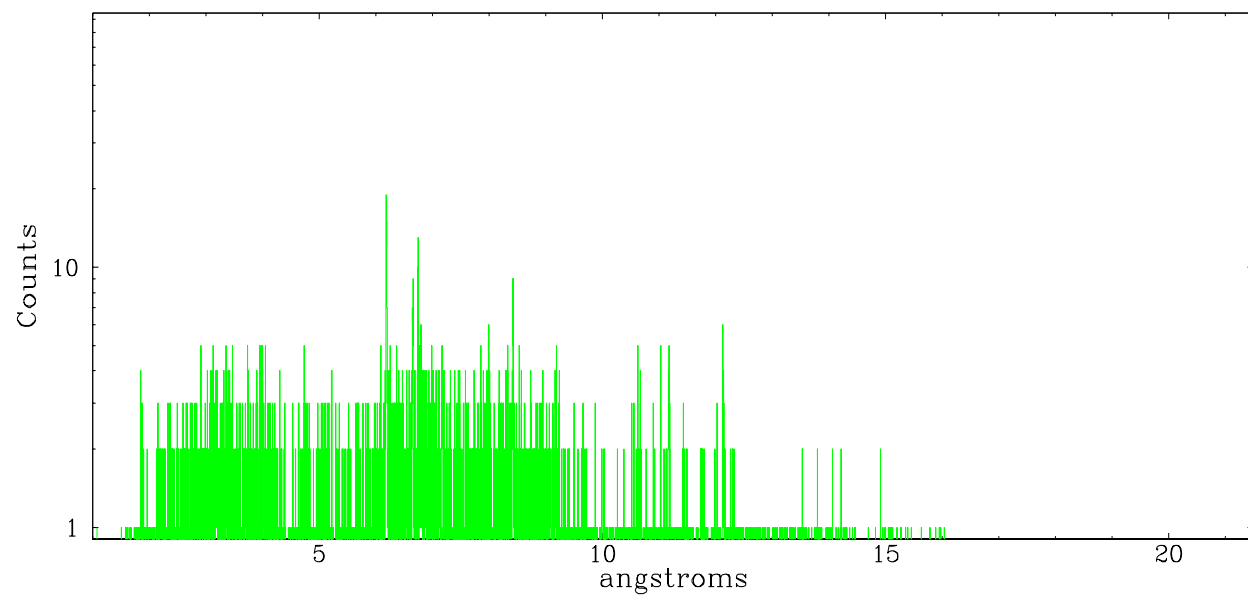
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	364	901	6743	14134	6089	595	317



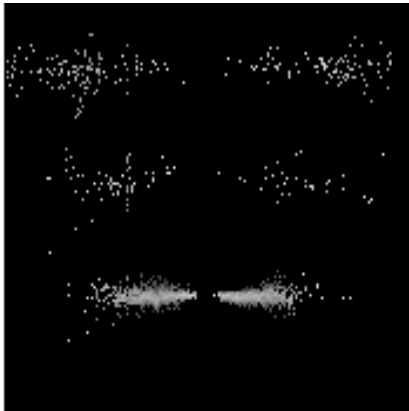
heg order -1



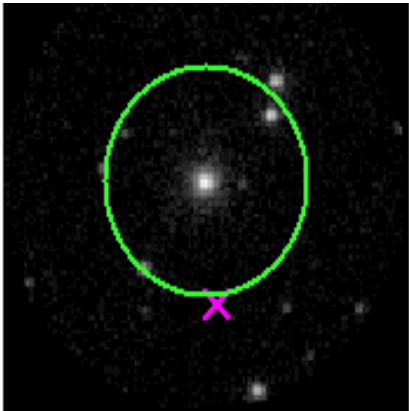
heg order +1



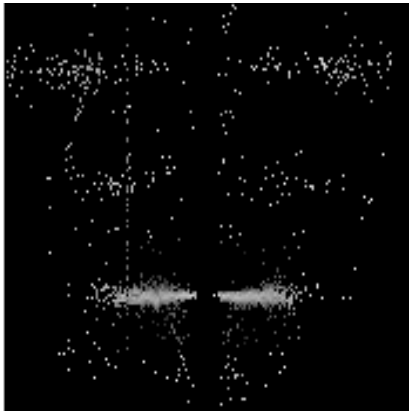
3.2 MEG Arm



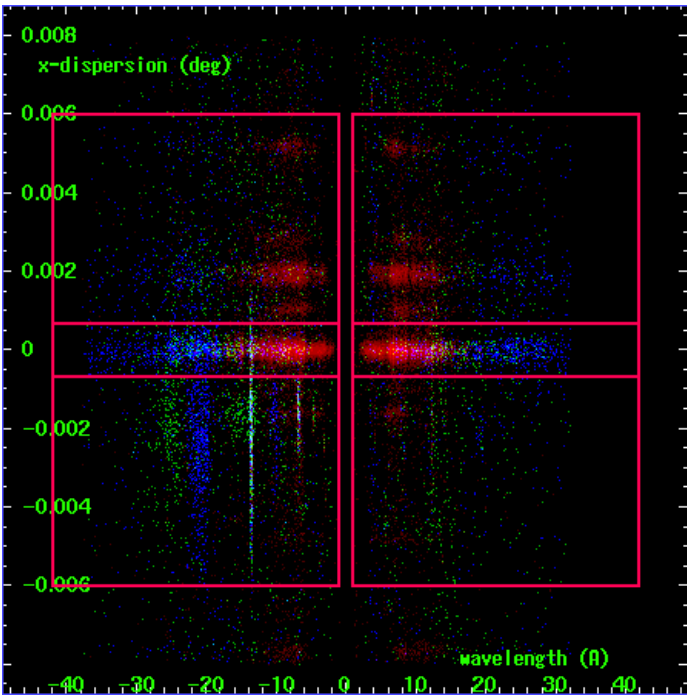
MEG Order Sort 123



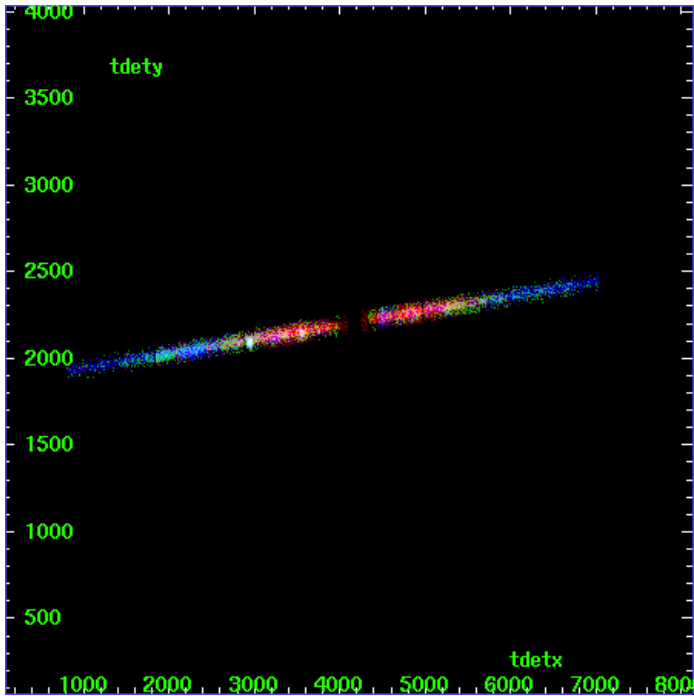
MEG Zero Order



MEG Order Sort ALL

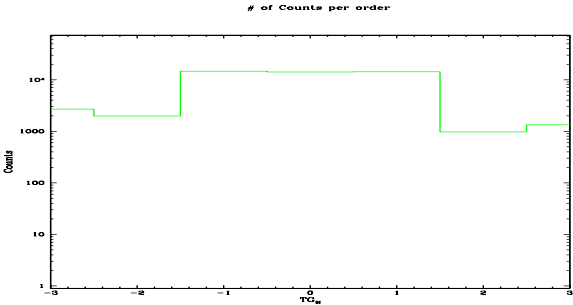


Spot Image MEG

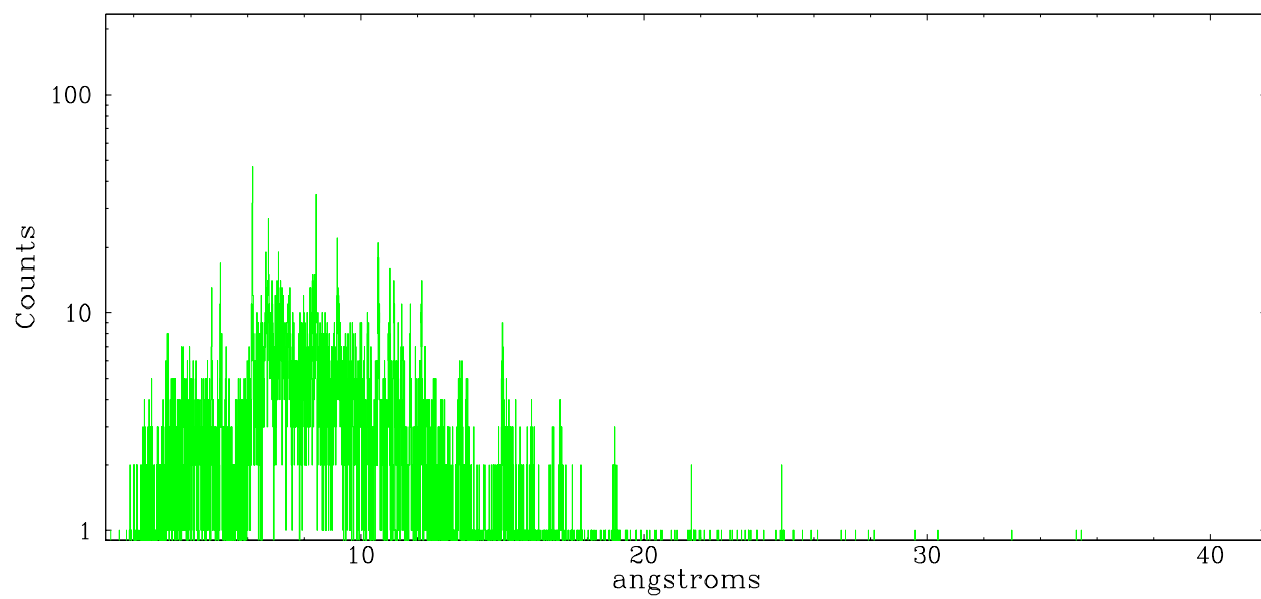


Full Detector MEG

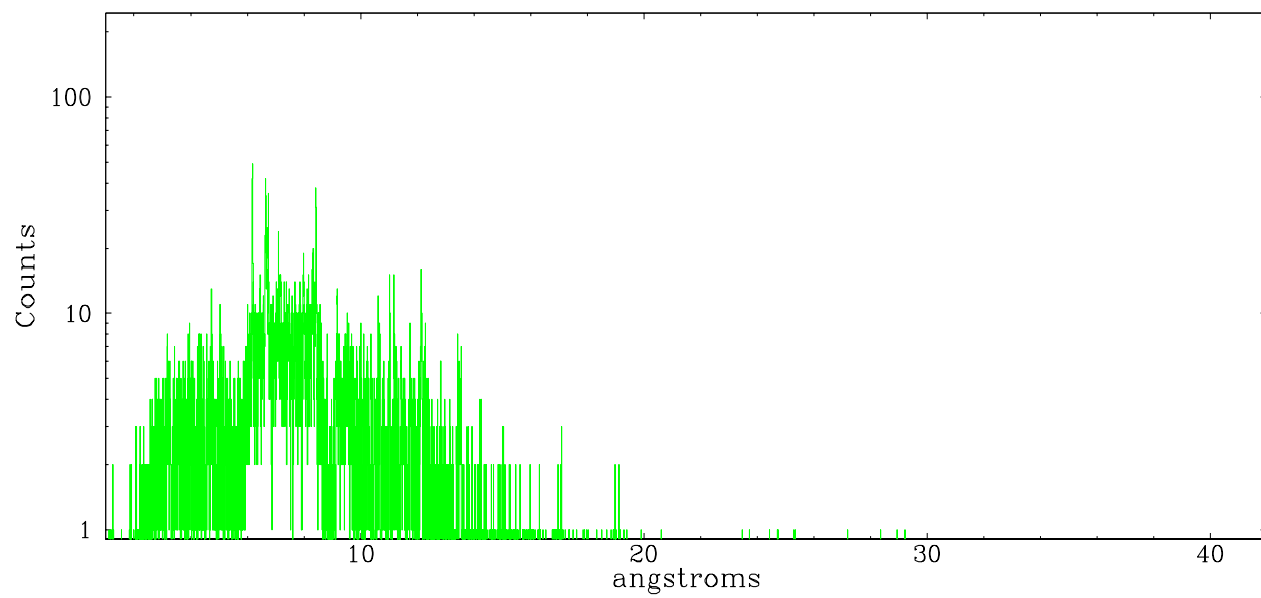
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	2700	1980	14575	14134	14272	971	1334



meg order -1



meg order +1



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2006.09.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	46.928

A.2 Comments

Phase constraint requested: min 0.479, err 0.03 max 0.521, err 0.03
actual, tstart 0.453, tstop 0.489

There are many sources in this field. Only the target has extracted spectral data in the standard data products, but users can extract the dispersed spectra of other sources using CIAO.