

V&V Reference Report

L2 ASCDS Version : 7.6.10

Observation 636 - L2 Version 001
Chandra X-Ray Center

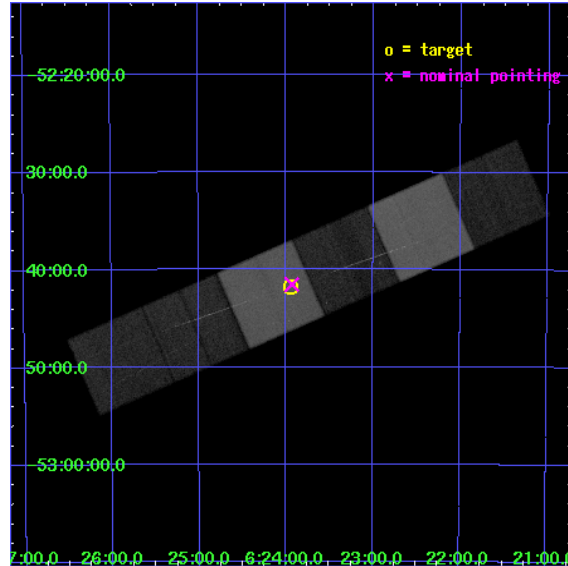
L2 Processing Date : Jun 1 2007

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	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	HEG Arm	17
3.2	MEG Arm	19
A	Summary	21
A.1	Status	21
A.2	Comments	21

1 Front

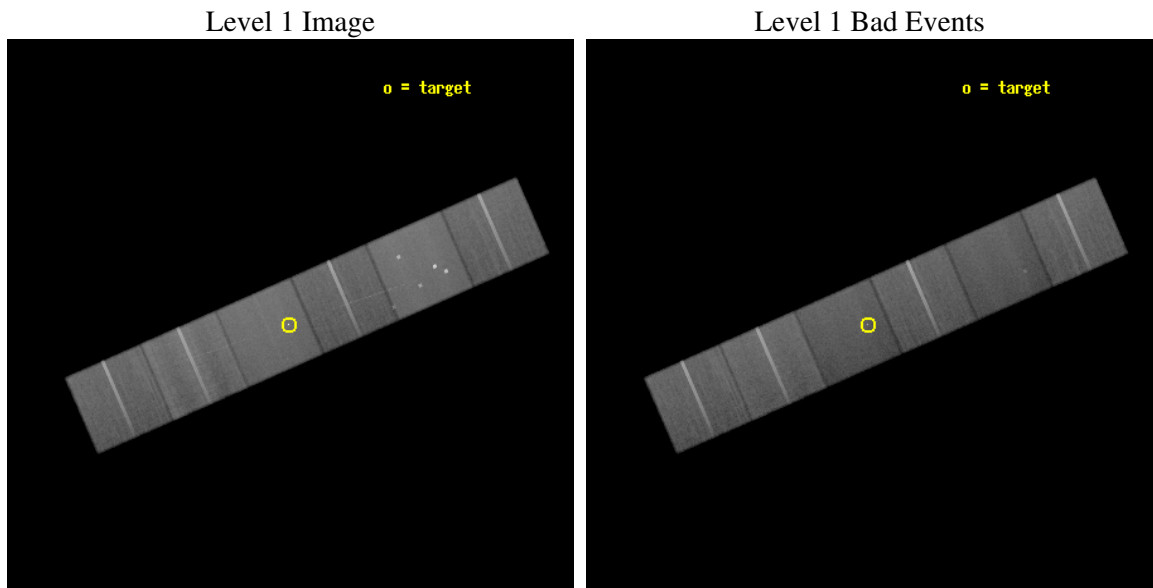
seq_num	200061
obs_id	636
title	CORONAL SPECTROSCOPY OF THE F0 SUPERGIANT CANOPUS: PROPERTIES OF INTERMEDIATE MASS STAR CORONAE AFTER THE HE FLASH
observer	DR. Alexander Brown
object	HD 45348
dtcycle	0
cycle	P
ra_targ	95.987917
dec_targ	-52.695667
ra_nom	95.982644518492
dec_nom	-52.692296771401
roll_nom	156.28086136466
revision	3
ontime	95913.600089327
livetime	94699.084332759
ontime4	95907.118168861
ontime5	95913.600089327
ontime6	95913.600089327
ontime7	95913.600089327
ontime8	95910.359129086
ontime9	95910.359129086
l2events	801104



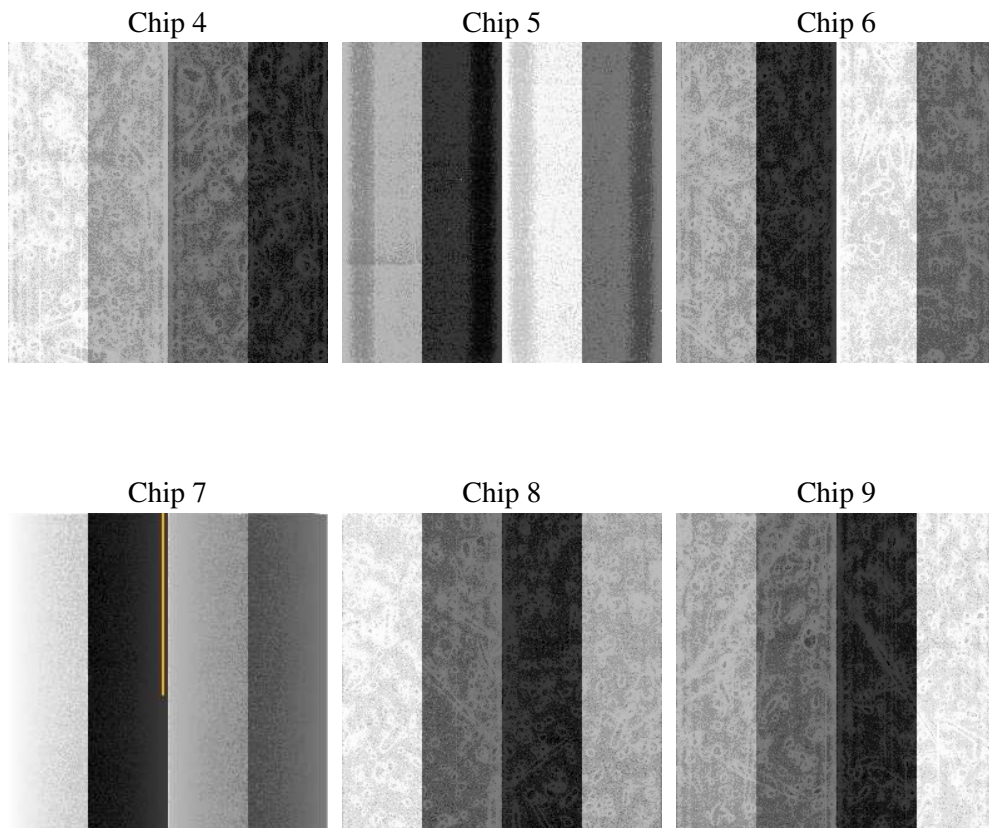
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1
ascdsver	7.6.10
caldsver	3.4.0
date	2007-06-01T00:44:40
revision	3

sched_exp_time	95960.446000
ontime	95913.600089327
ontime4	95907.118168861
ontime5	95913.600089327
ontime6	95913.600089327
ontime7	95913.600089327
ontime8	95910.359129086
ontime9	95910.359129086
l1events	3695737

2.1.4 Events

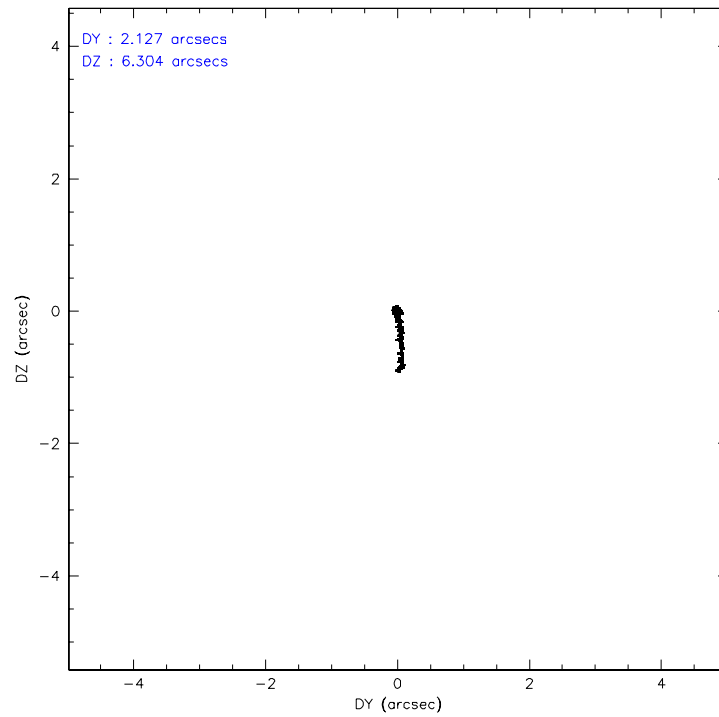
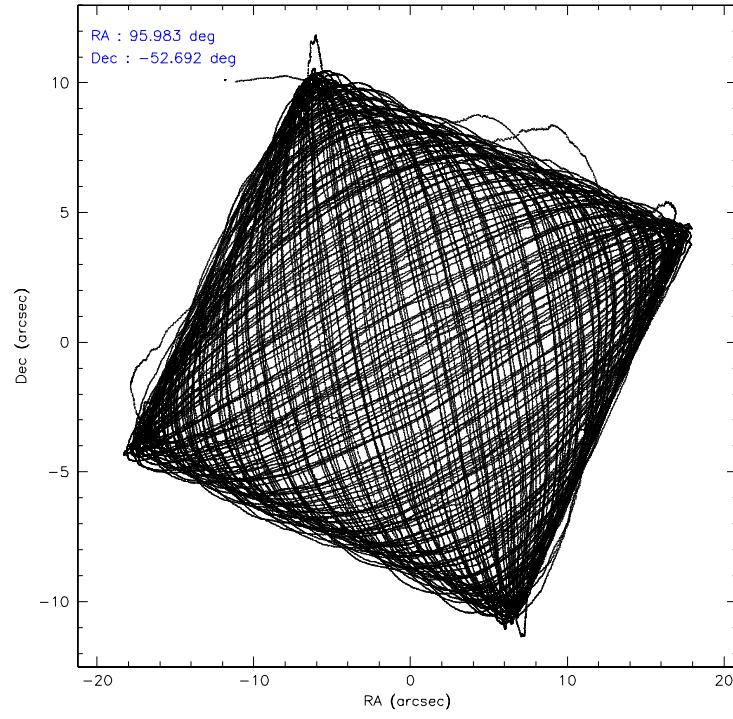
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	582970	722126	537251	646383	674423	532584
rejected events	517927	376281	473179	369021	528651	469060
rejected %	88%	52%	88%	57%	78%	88%

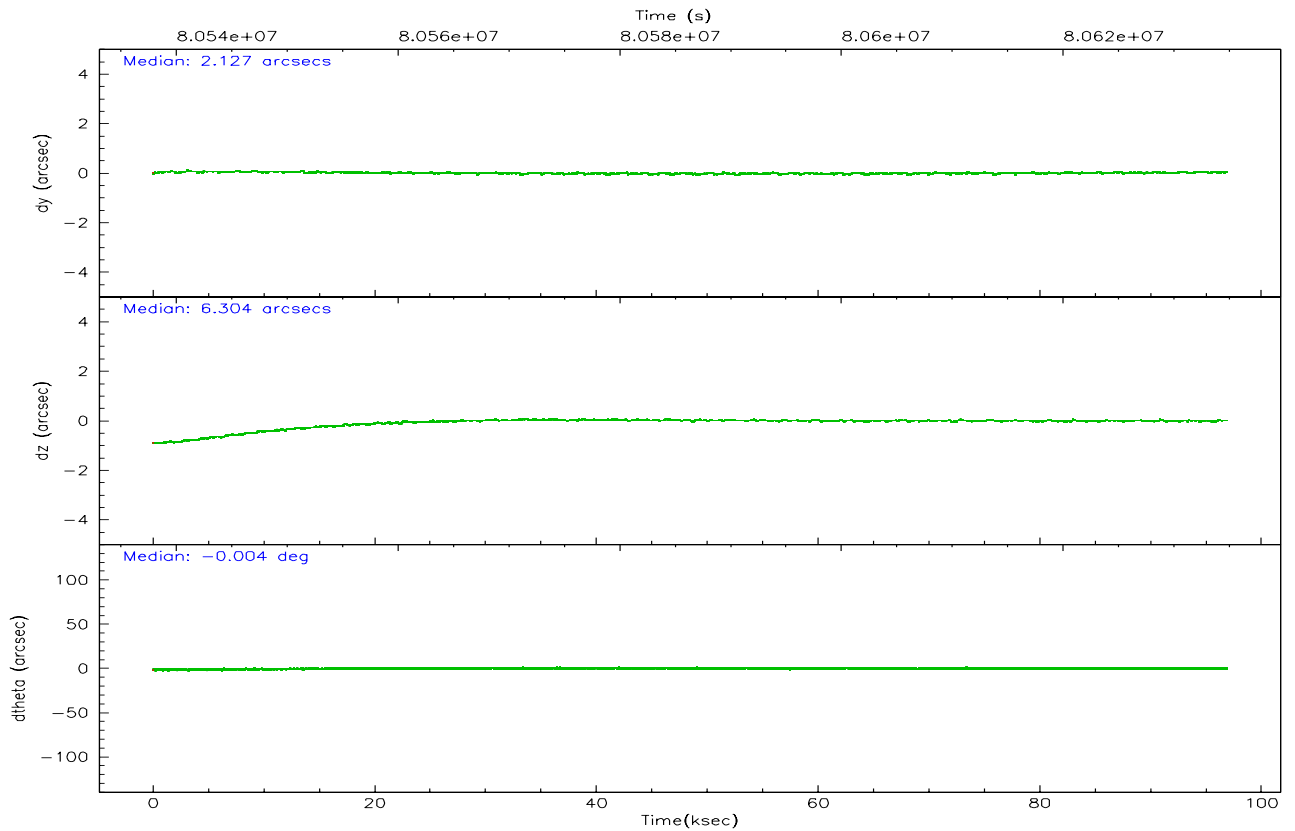
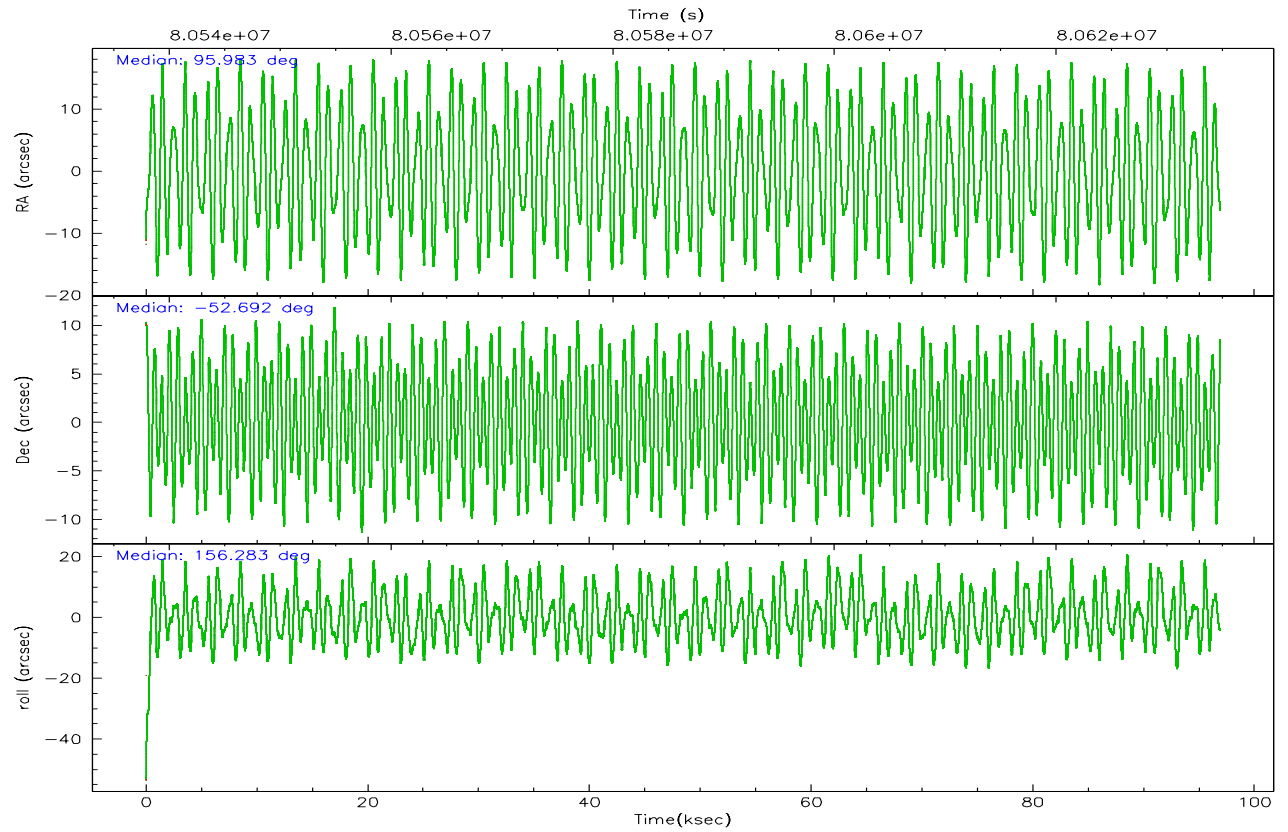
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	27431	55513	27313	26579	47958	26413
	4%	7%	5%	4%	7%	4%
grade 1 events	253	1442	221	697	392	229
	0%	0%	0%	0%	0%	0%
grade 2 events	15106	94566	12331	55259	29851	12629
	2%	13%	2%	8%	4%	2%
grade 3 events	5924	14799	6206	25380	16523	6182
	1%	2%	1%	3%	2%	1%
grade 4 events	5689	14527	6045	25426	14739	6028
	0%	2%	1%	3%	2%	1%
grade 5 events	17719	54538	20511	62000	26509	21291
	3%	7%	3%	9%	3%	3%
grade 6 events	10893	166460	12177	144729	36704	12272
	1%	23%	2%	22%	5%	2%
grade 7 events	499955	320281	452447	306313	501747	447540
	85%	44%	84%	47%	74%	84%

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	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
Pointing RA	96.027545	95.98264451849248	Subarray requested	NONE	NONE
Pointing Dec	-52.689158	-52.69229677140068	Alternating exposures requested	N	N
Pointing Roll	156.159956	156.2808613646643	Primary exposure time	3.200000	3.2
SIM focus pos (mm)	-0.684267	-0.6828225247311905			
SIM defocus (mm)	0	0.001444936568705701			
SIM translation stage pos (mm)	-190.132523	-190.1400660498719			
SIM translation stage offset (mm)	0	0.00754346686406393			
Observation start time	80538846.184000	80537414.354037			
Observation start date	2000-07-21T03:53:02	2000-07-21T03:30:14			
Observation end time	80634807.184000	80635116.845167			
Observation end date	2000-07-22T06:32:23	2000-07-22T06:38:36			
Read mode	TIMED	TIMED			

2.3 Aspect



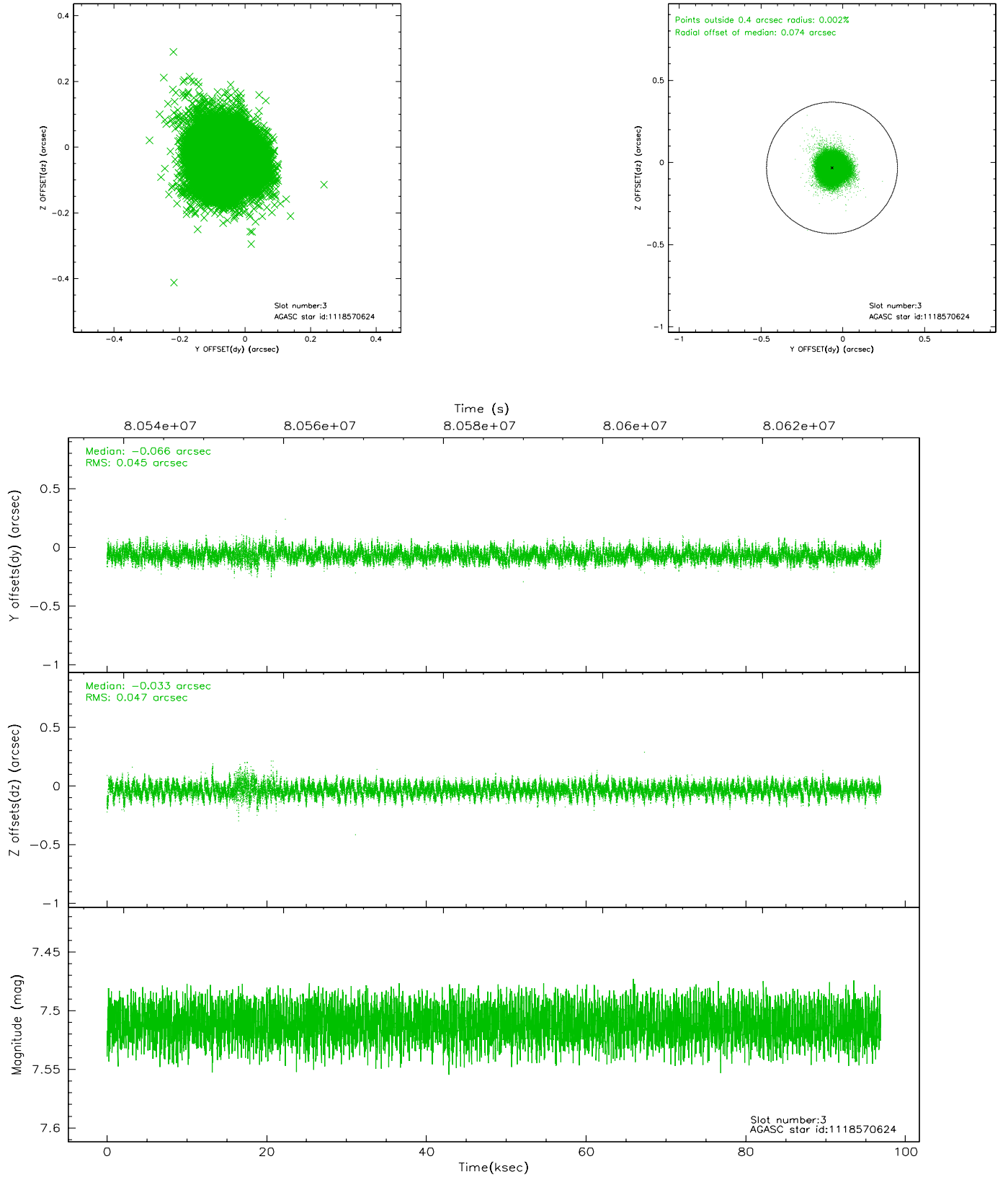


Slot Statistics

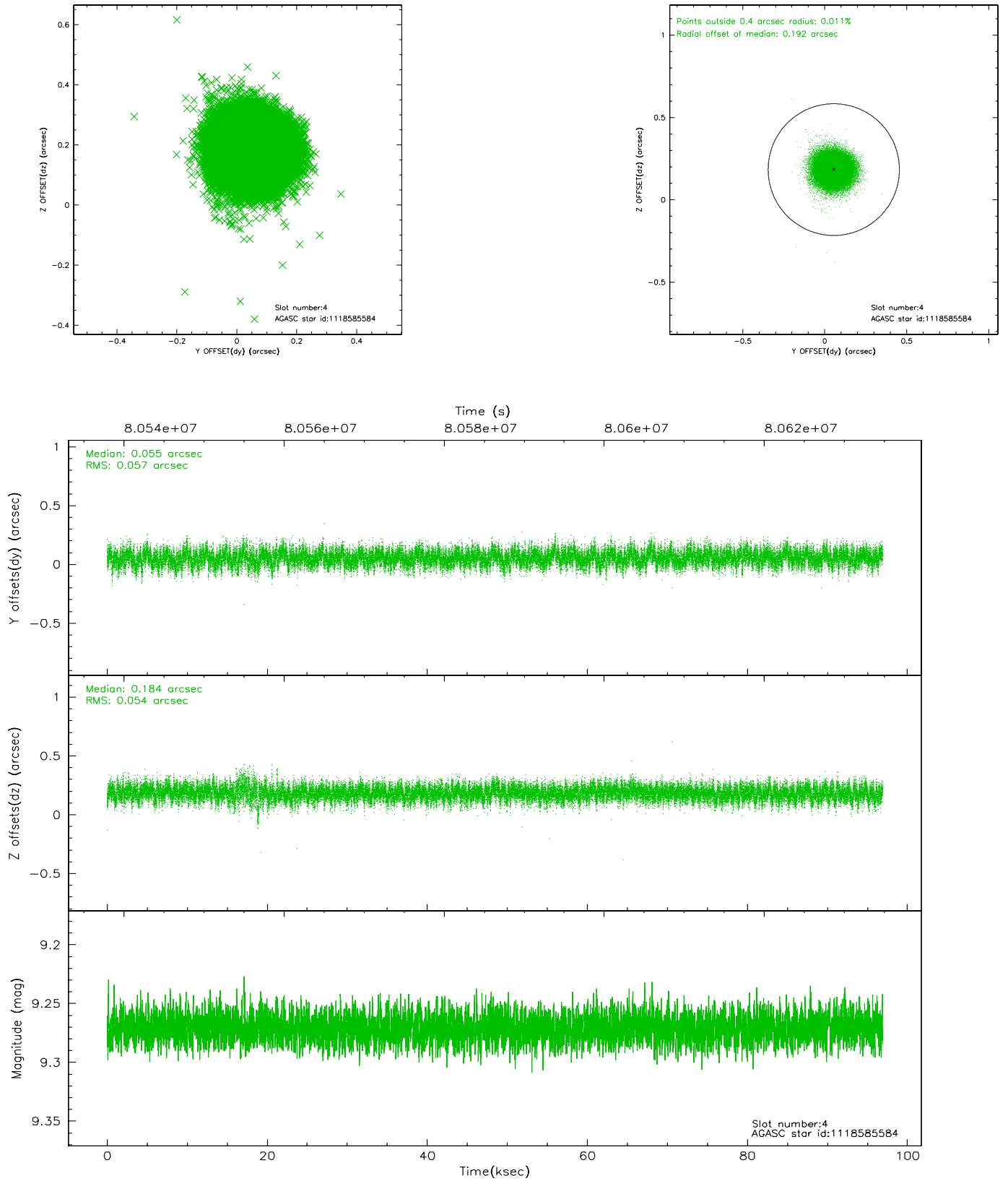
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	23638	0.014	0.000	0.007	0.013	0.000000	0.000000	-754.73	-1727.36
1	FID	ACIS-S-4	7.21	23638	-0.027	-0.021	0.007	0.012	0.000000	0.000000	2158.54	181.20
2	FID	ACIS-S-6	7.35	23637	-0.014	0.028	0.007	0.012	0.000000	0.000000	407.11	818.54
3	GUIDE	1118570624	7.51	47272	-0.066	-0.033	0.069	0.111	95.354935	-52.662457	1379.30	512.16
4	GUIDE	1118585584	9.27	47259	0.055	0.184	0.084	0.137	96.562758	-53.004125	-1520.47	573.03
5	GUIDE	1118570408	10.30	46875	0.152	0.065	0.142	0.227	94.814892	-52.917855	2066.11	1837.53
6	BAD	1118573904	10.52	44001	-0.339	-0.512	0.219	0.386	96.551944	-53.245231	-1843.87	1378.51
7	GUIDE	1118572496	10.79	46899	0.183	0.259	0.196	0.311	96.482724	-53.378049	-1897.58	1876.90

2.4 Star Slots

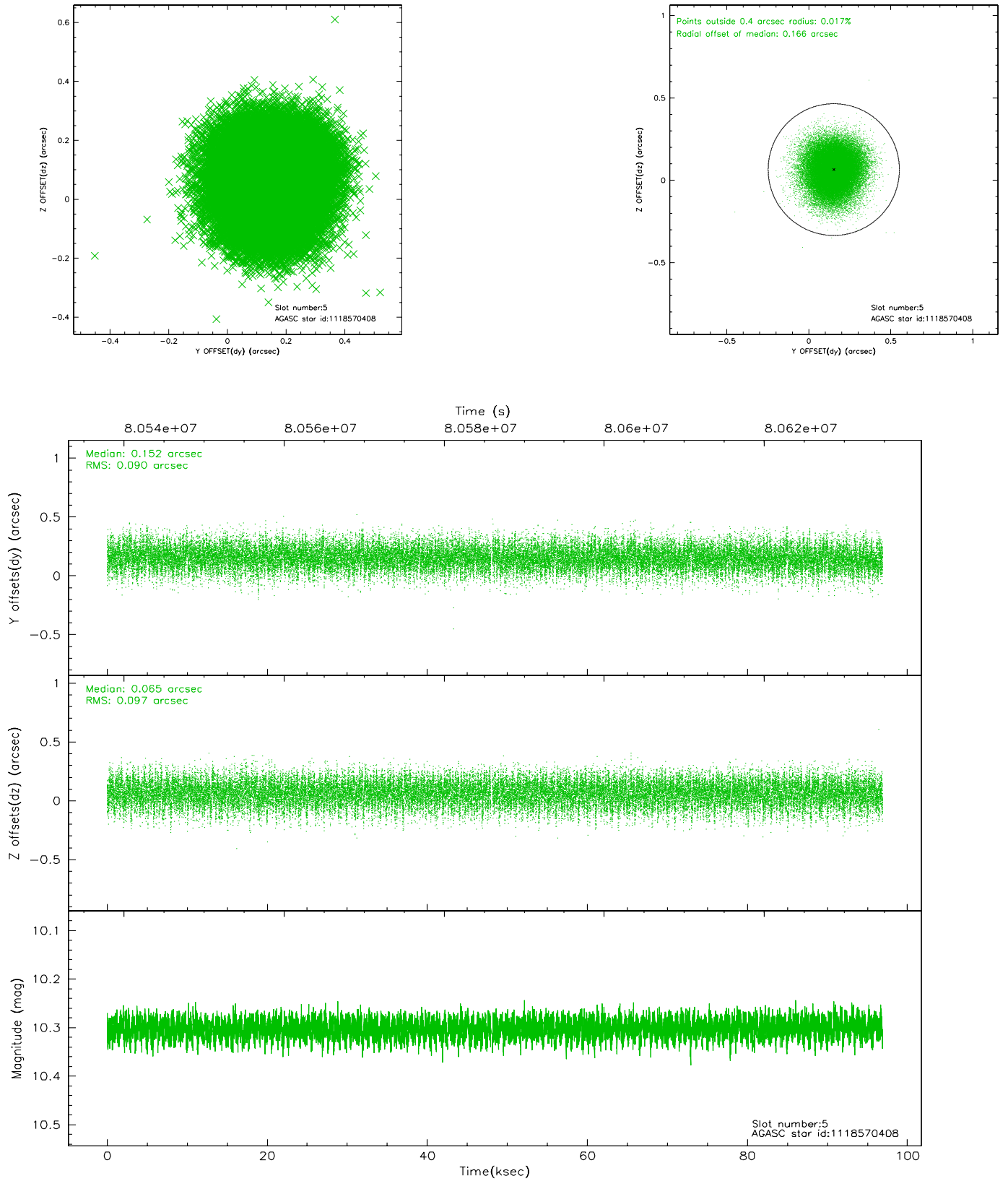
2.4.1 Slot 3



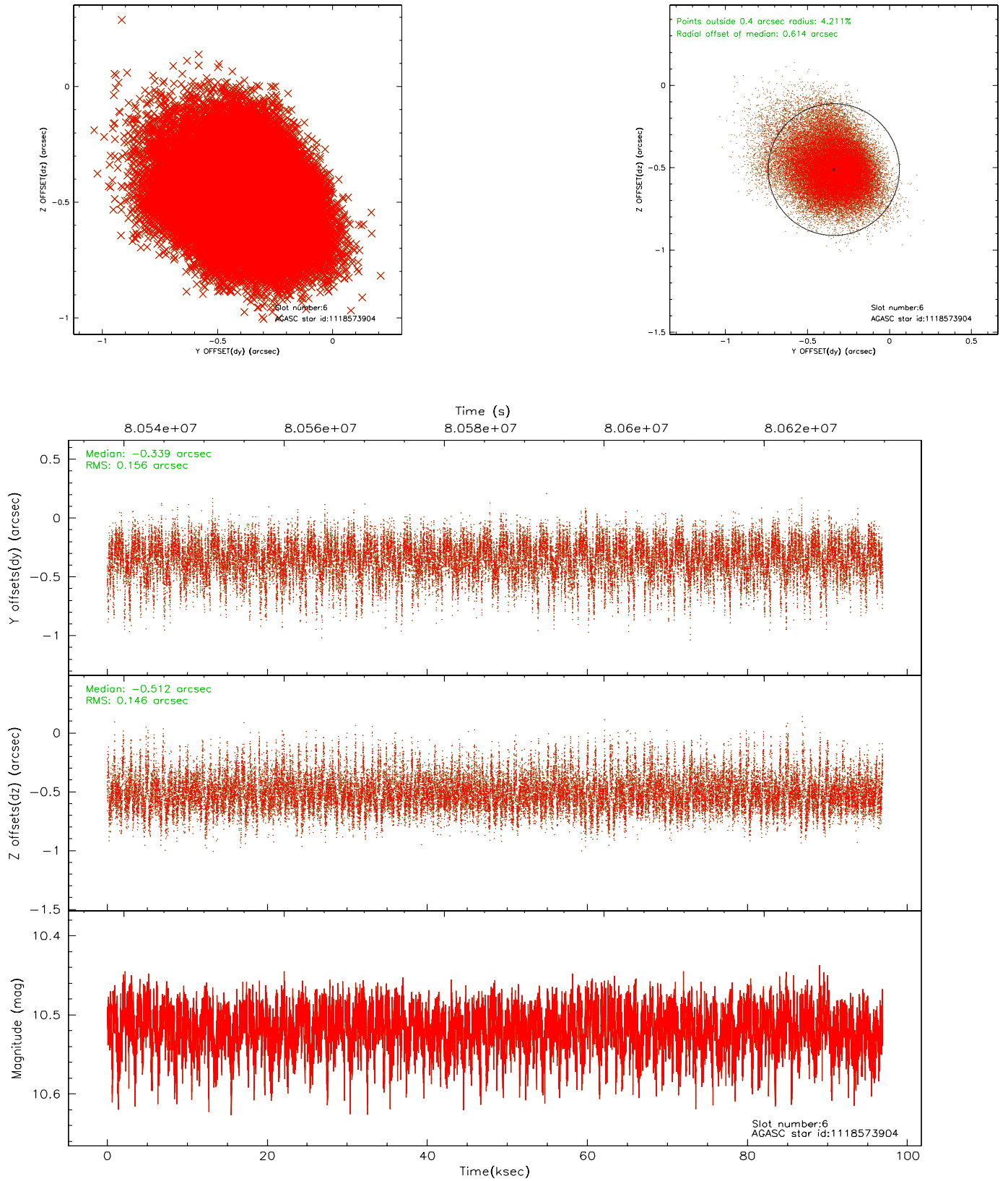
2.4.2 Slot 4



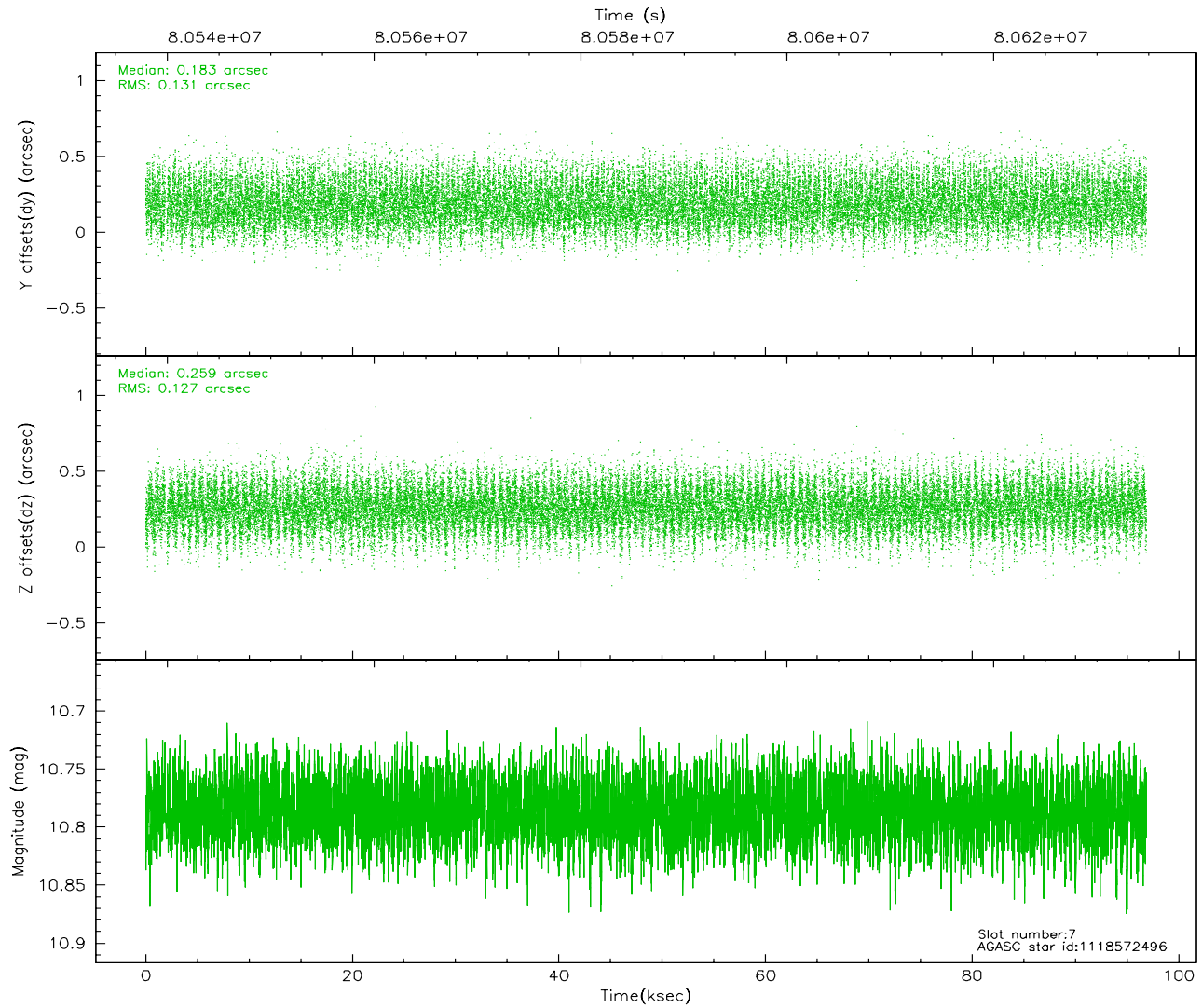
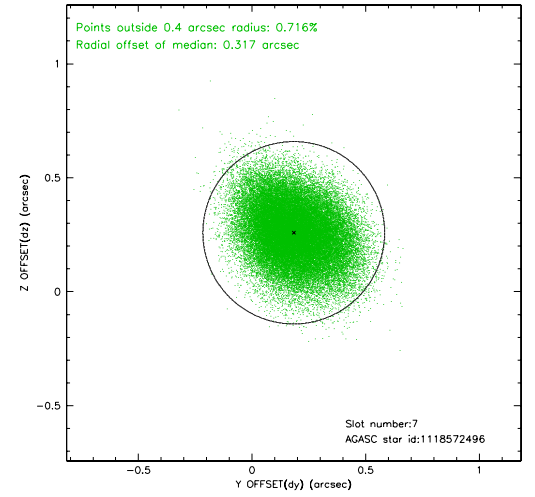
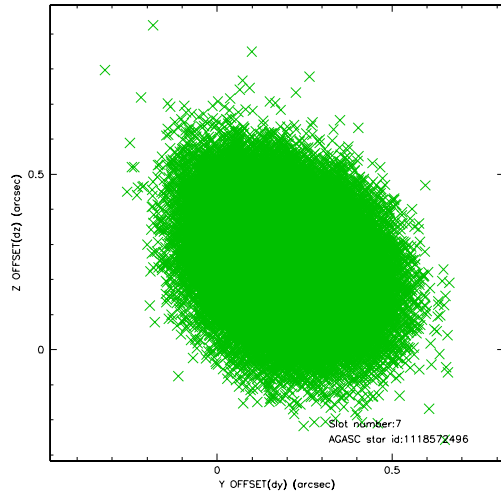
2.4.3 Slot 5



2.4.4 Slot 6

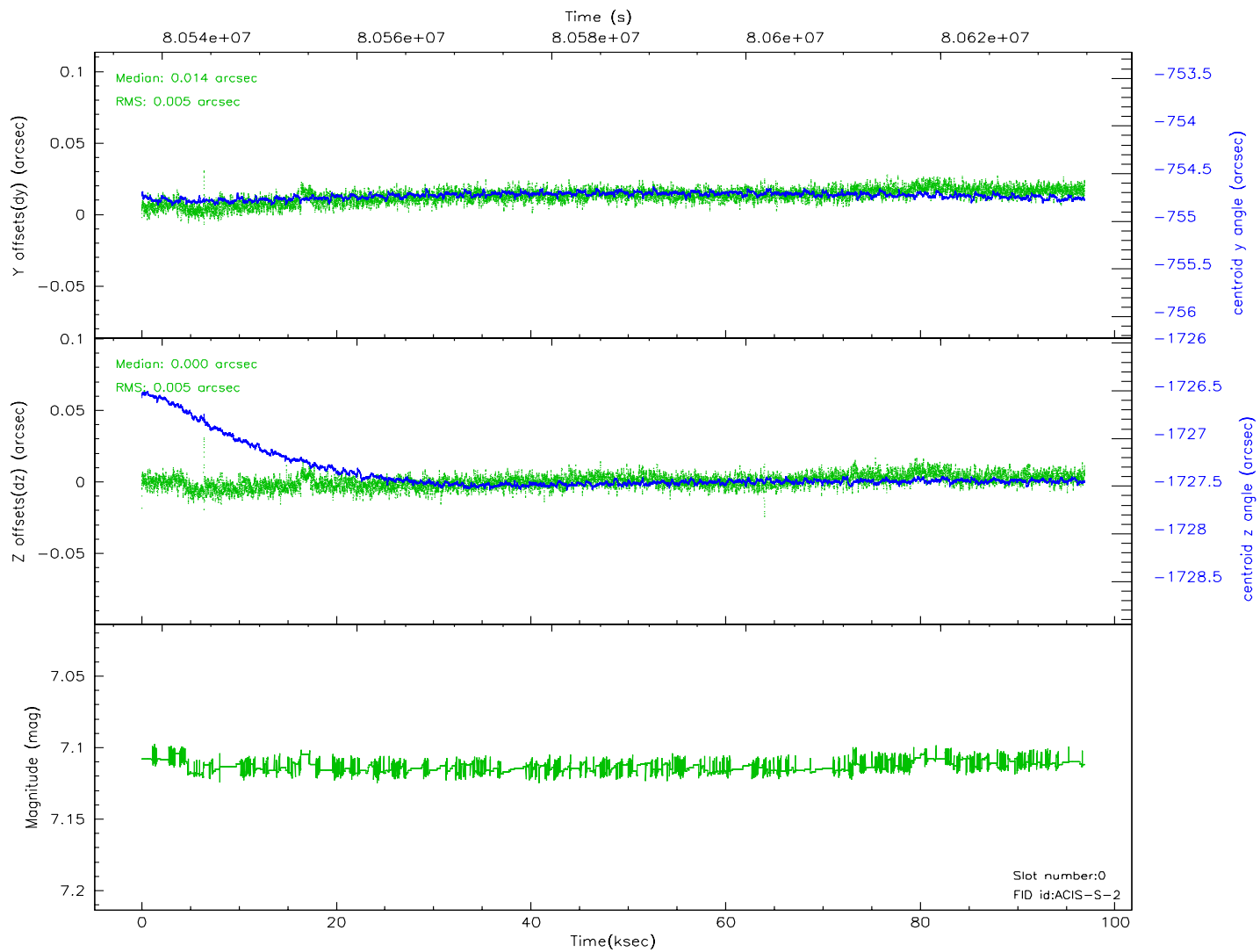
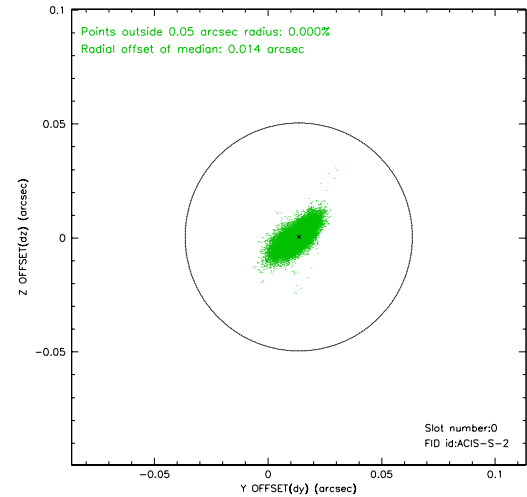
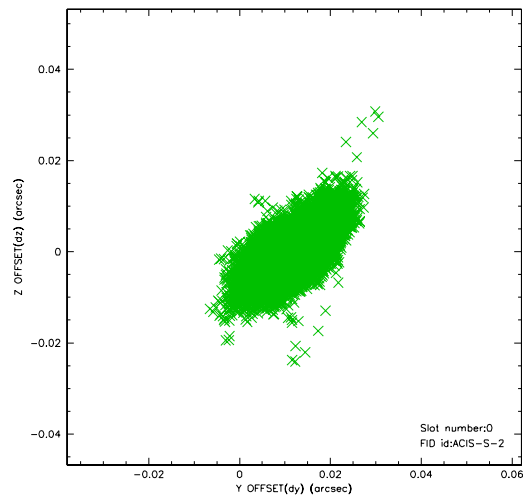


2.4.5 Slot 7

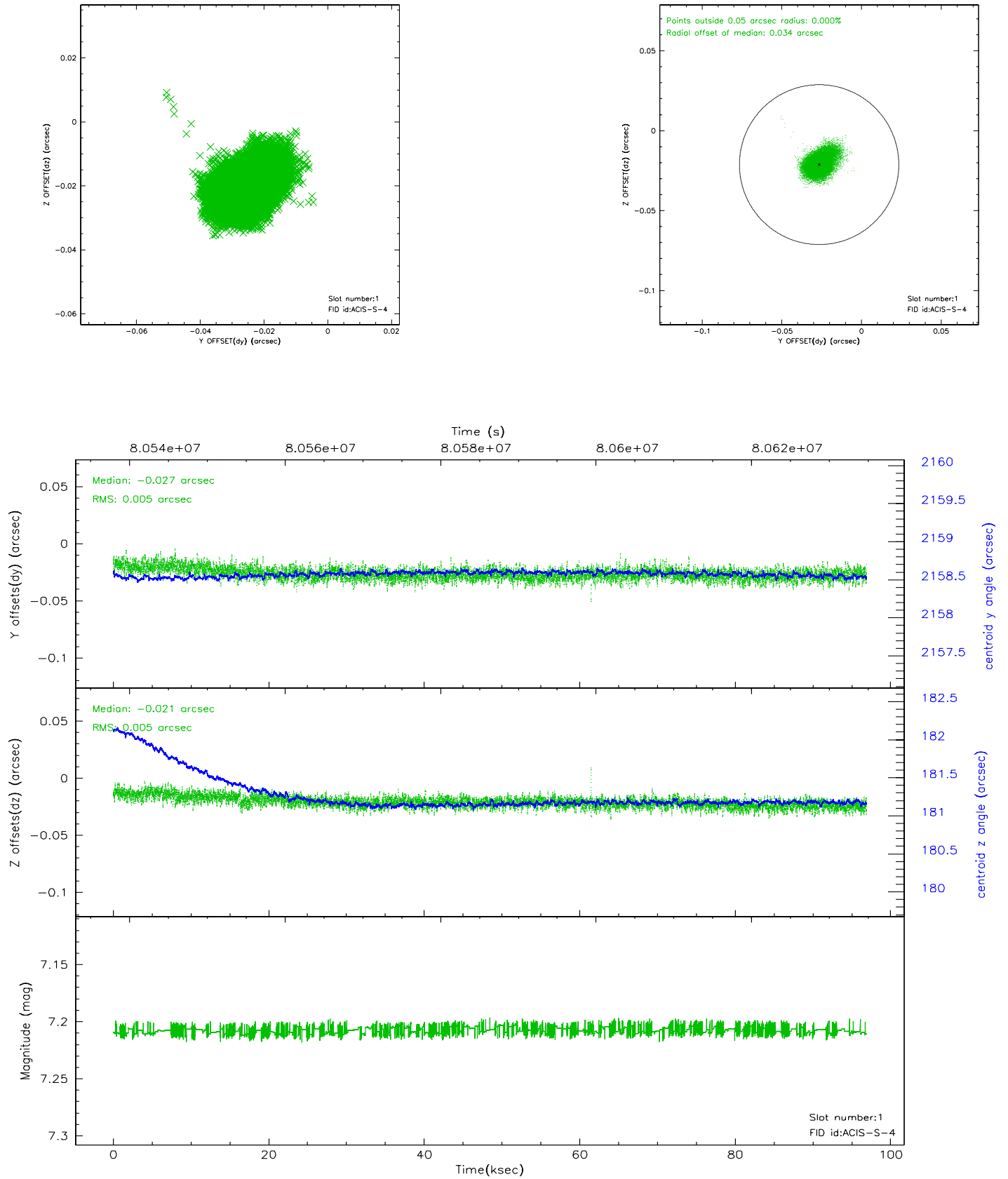


2.5 FID Slots

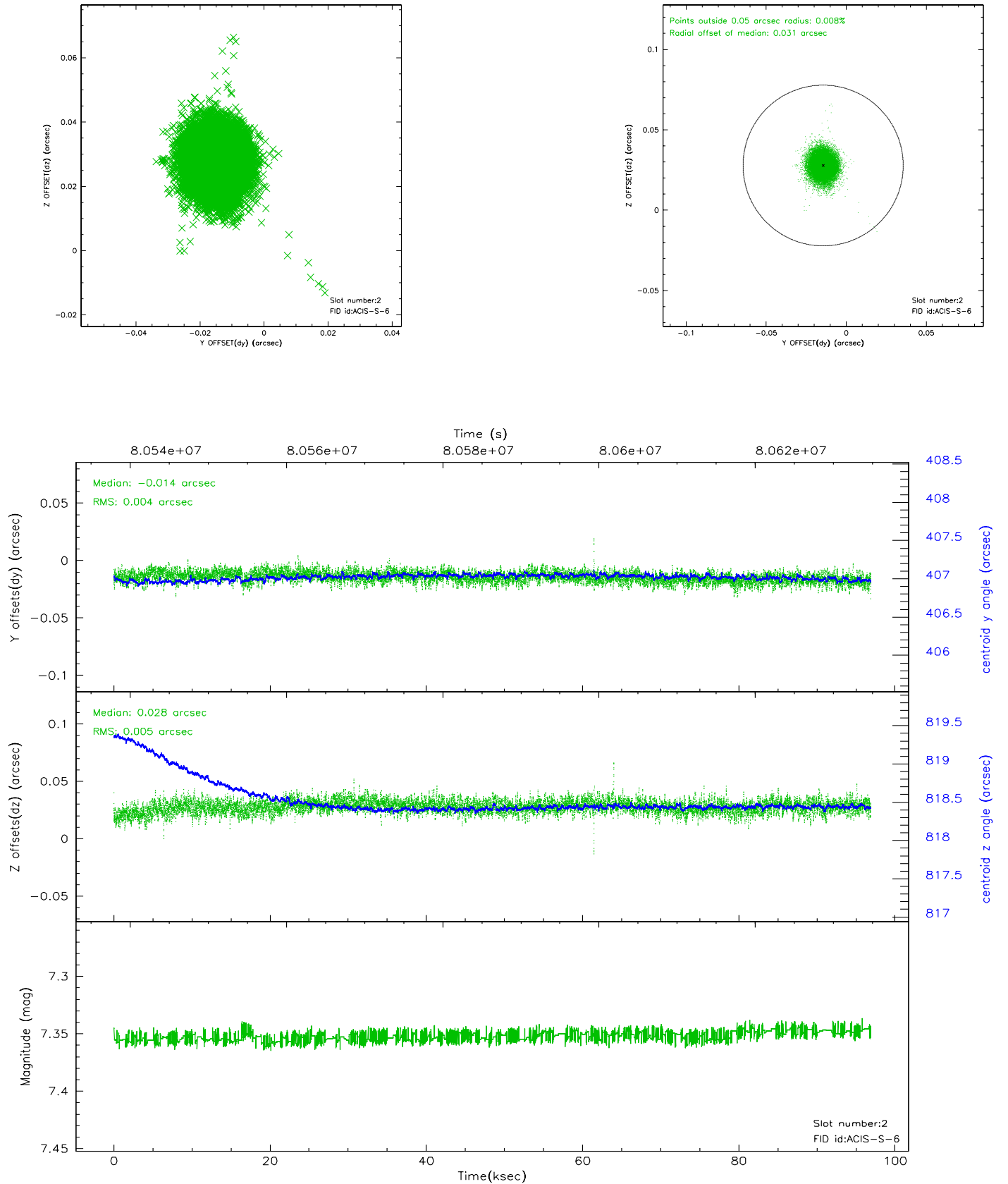
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2

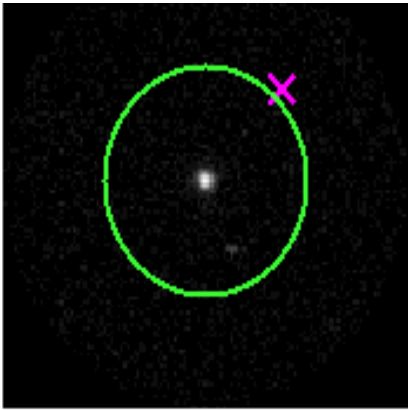


3 Gratings

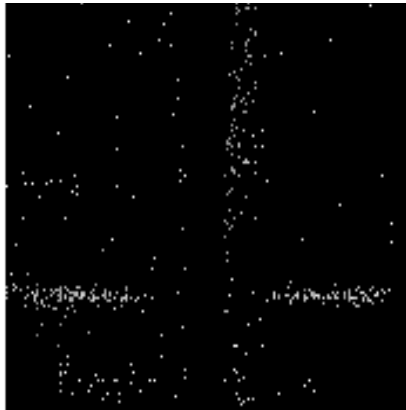
3.1 HEG Arm



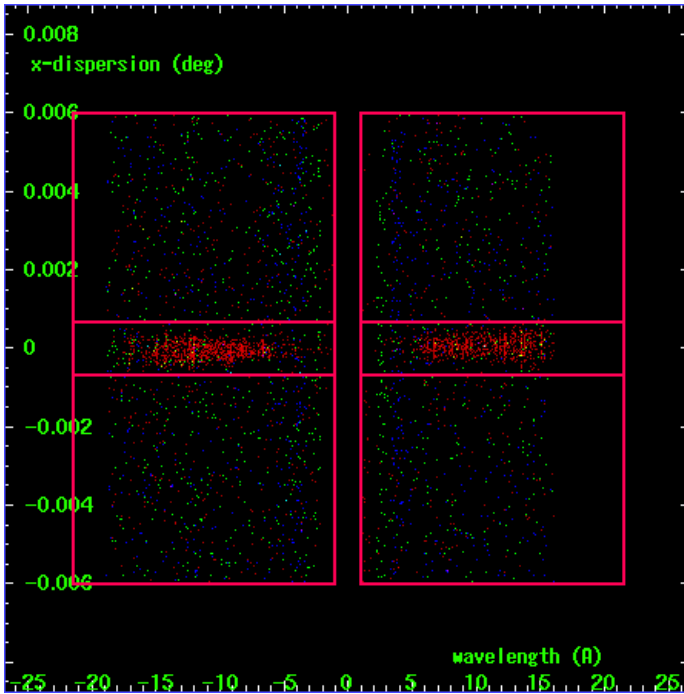
HEG Order Sort 123



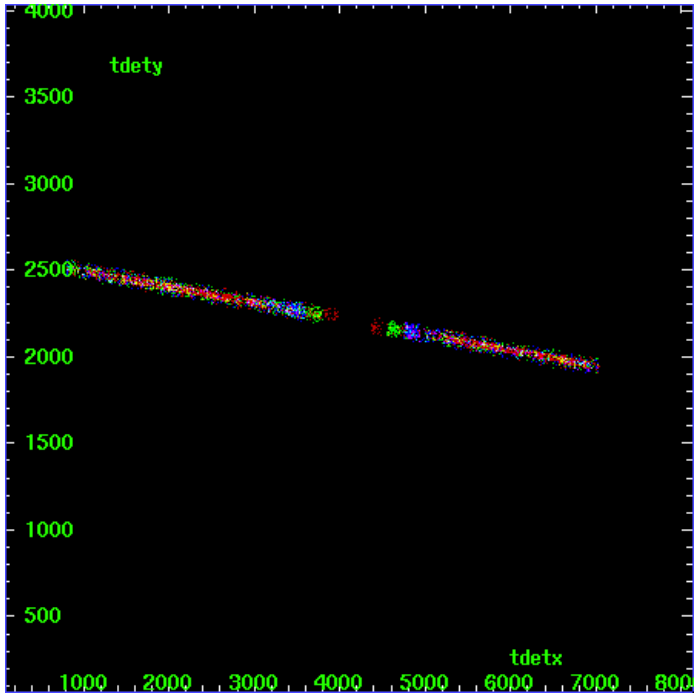
HEG Zero Order



HEG Order Sort ALL

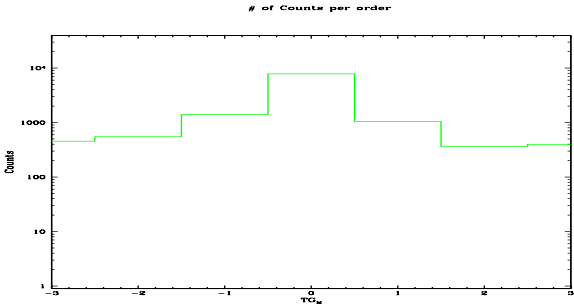


Spot Image HEG

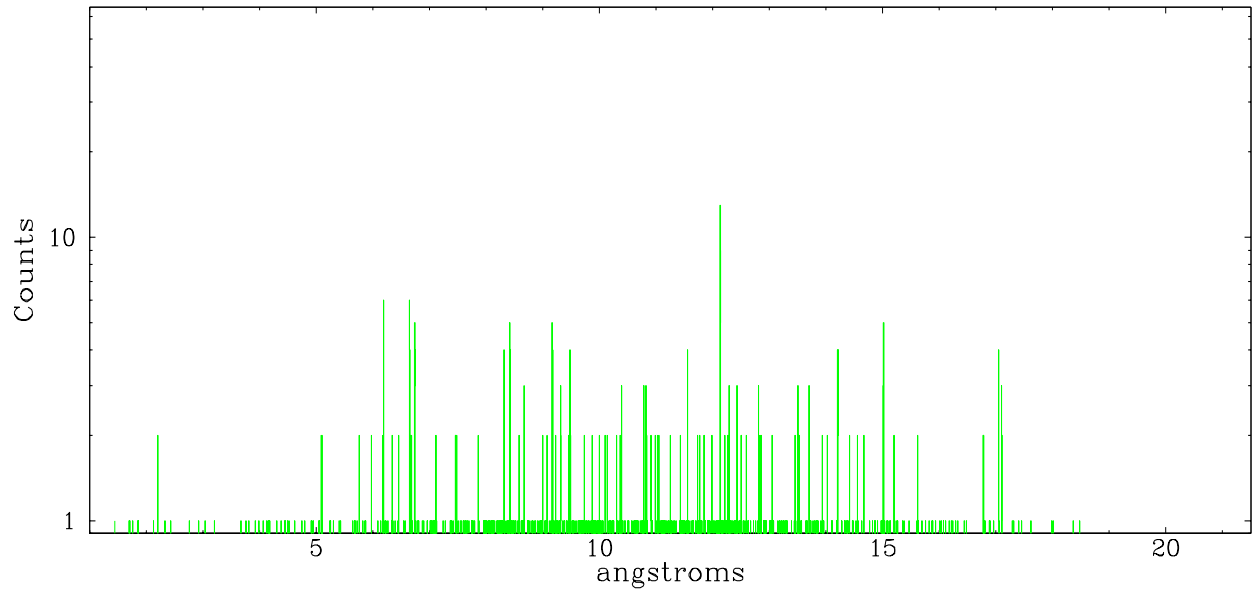


Full Detector HEG

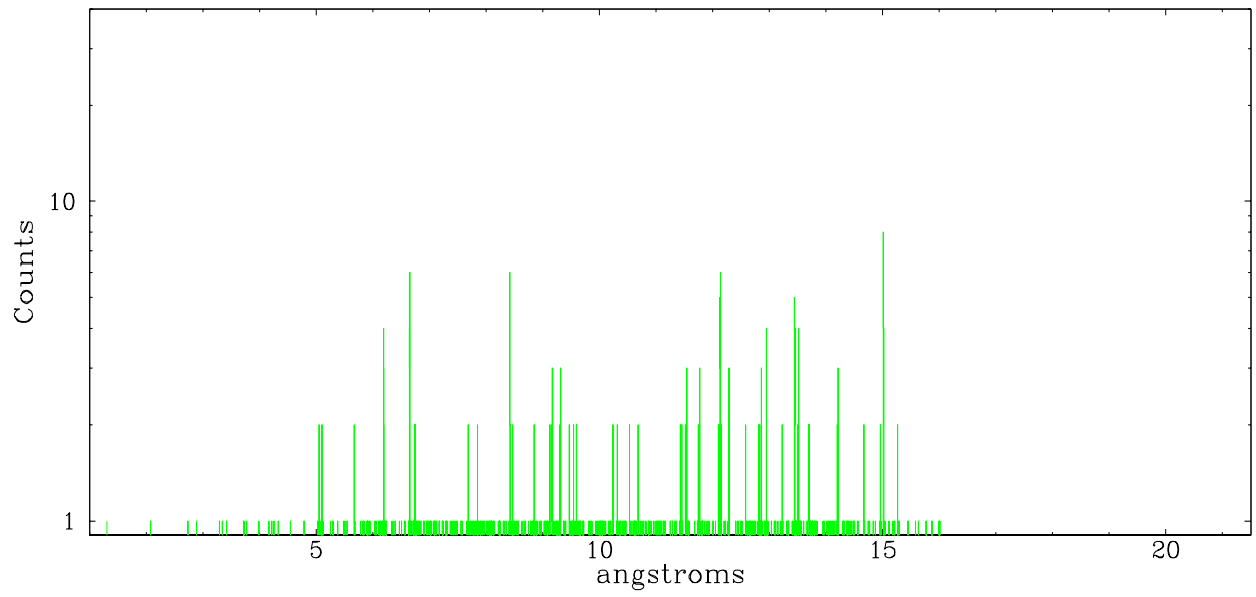
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	455	550	1402	7855	1053	366	397



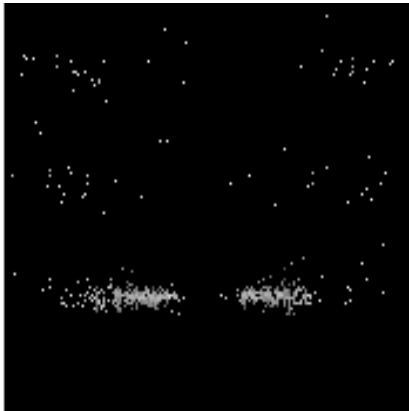
heg order -1



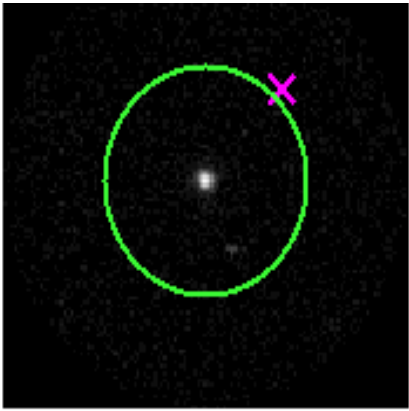
heg order +1



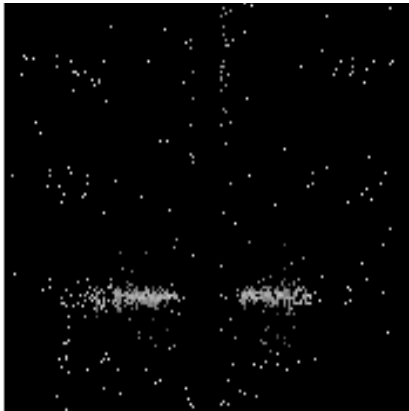
3.2 MEG Arm



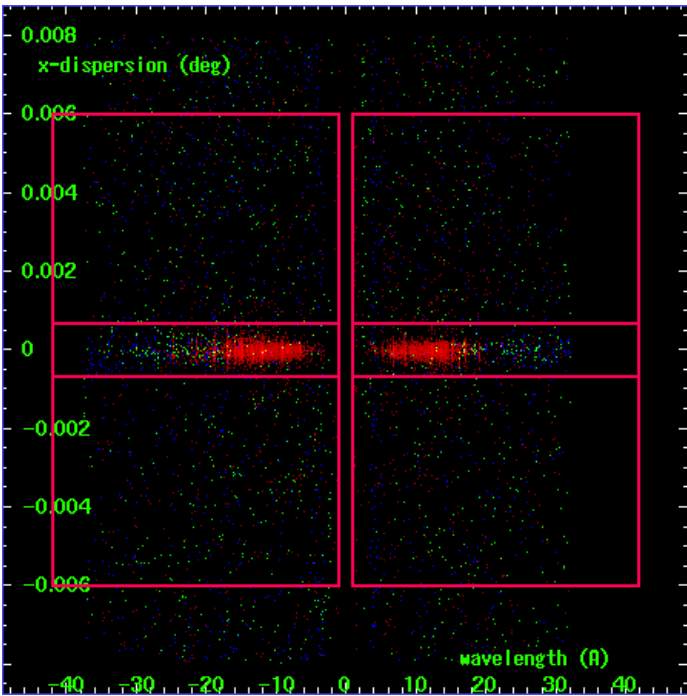
MEG Order Sort 123



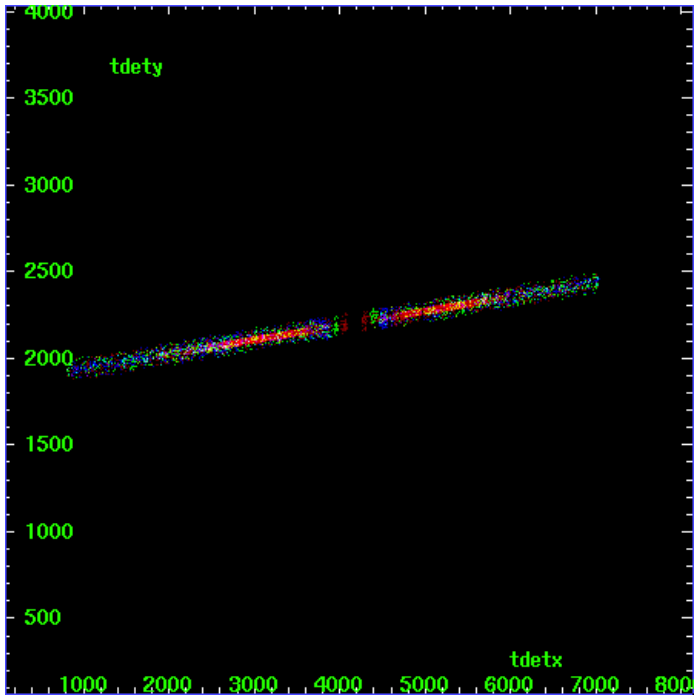
MEG Zero Order



MEG Order Sort ALL

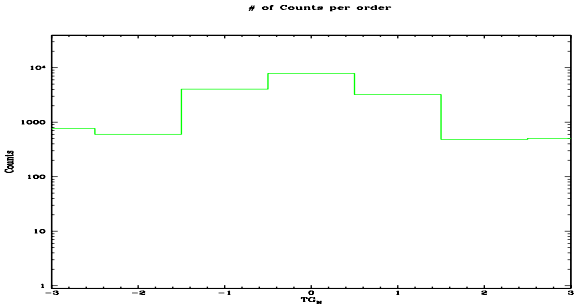


Spot Image MEG

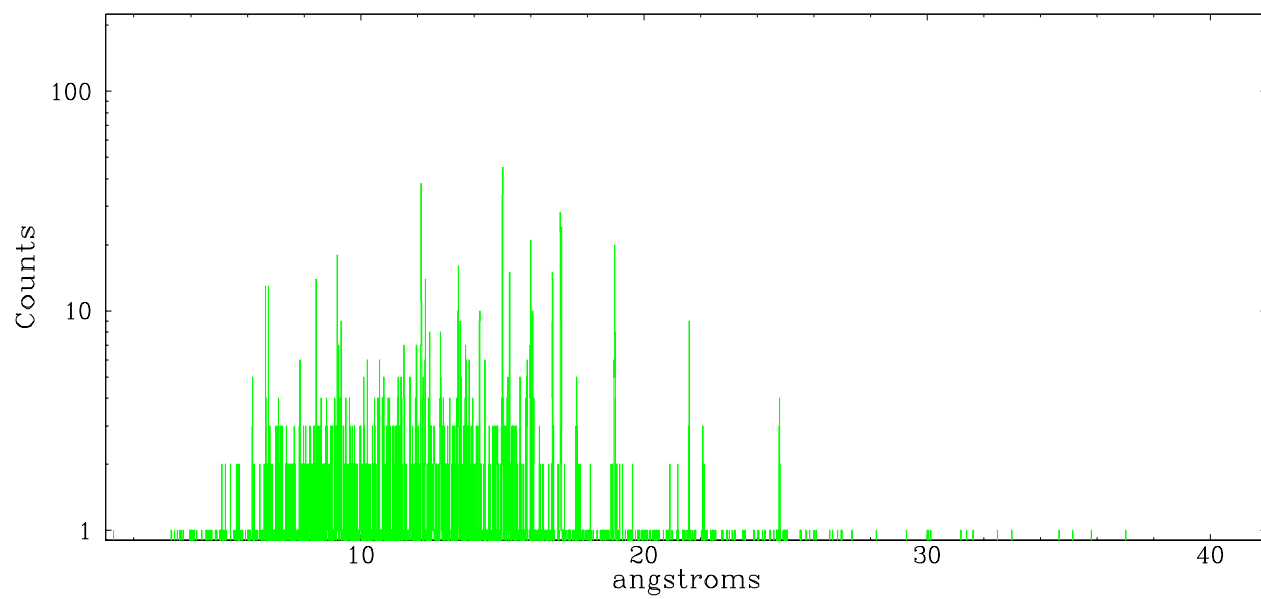


Full Detector MEG

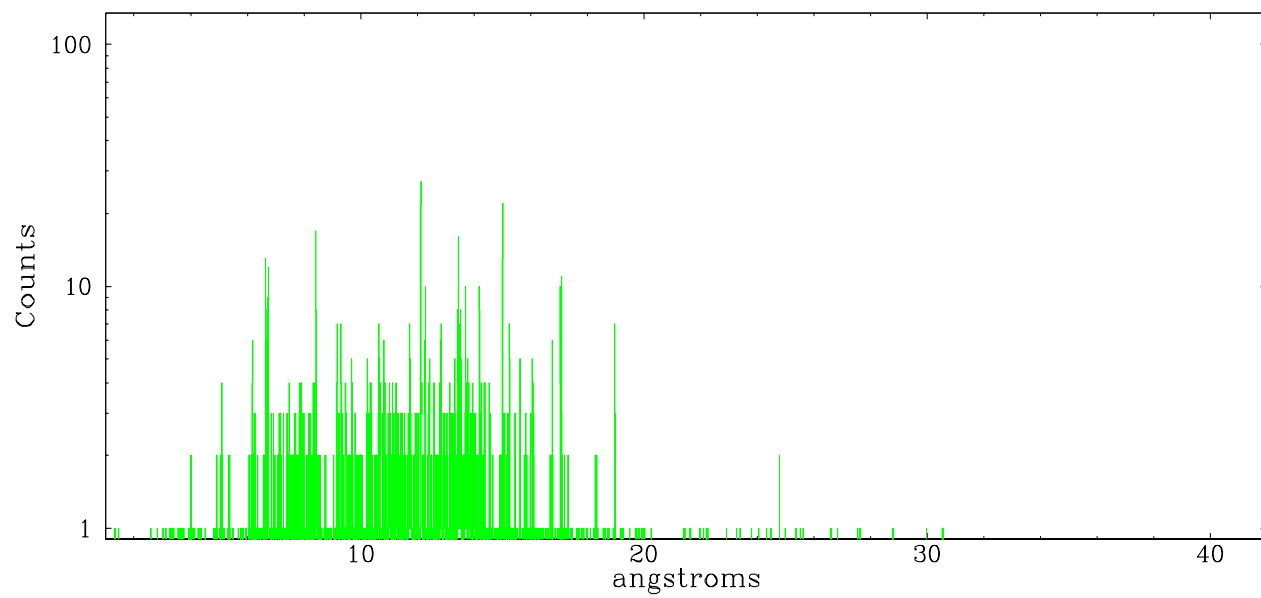
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	768	598	4039	7855	3203	483	503



meg order -1



meg order +1



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2007.06.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	95.765

A.2 Comments

Charge time for this ObsId remains at original value of 95.765 ks, although with the current processing the charge time would have been 95.913 ksec.

The guide star in slot 6 was removed from the aspect solution due to poor data quality. The aspect solution is not expected to be degraded by removing one guide star from the solution.

Faint x-ray source about 10 arcsec south-southwest of target. Probably included in the extraction of the dispersed spectral data of the source, although this faint additional source is approximately in the cross-dispersion direction.