

V&V Reference Report

L2 ASCDS Version : 7.6.7.1

Observation 7201 - L2 Version 002
Chandra X-Ray Center

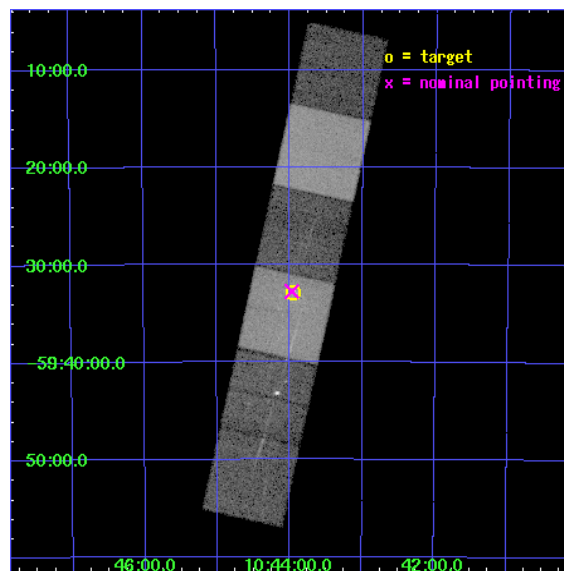
L2 Processing Date : Apr 4 2006

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1 Front

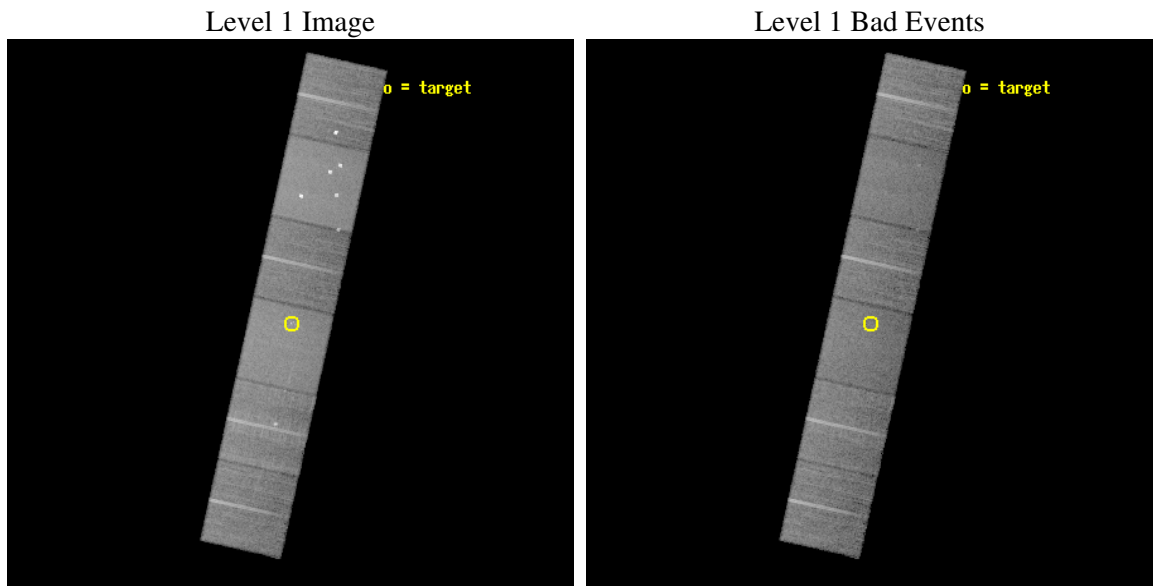
seq_num	200332
obs_id	7201
title	A Chandra HETGS Survey of O-Stars
observer	Dr. Wayne Waldron
object	HD93129AB
dtcycle	0
cycle	P
ra_targ	160.989583
dec_targ	-59.5475
ra_nom	160.99228979282
dec_nom	-59.545955101572
roll_nom	102.45894853305
revision	2
ontime	18438.399931312
livetime	18204.92180911
ontime4	18438.399931312
ontime5	18438.399931312
ontime6	18438.399931312
ontime7	18438.399931312
ontime8	18438.399931312
ontime9	18438.399931312
l2events	248339



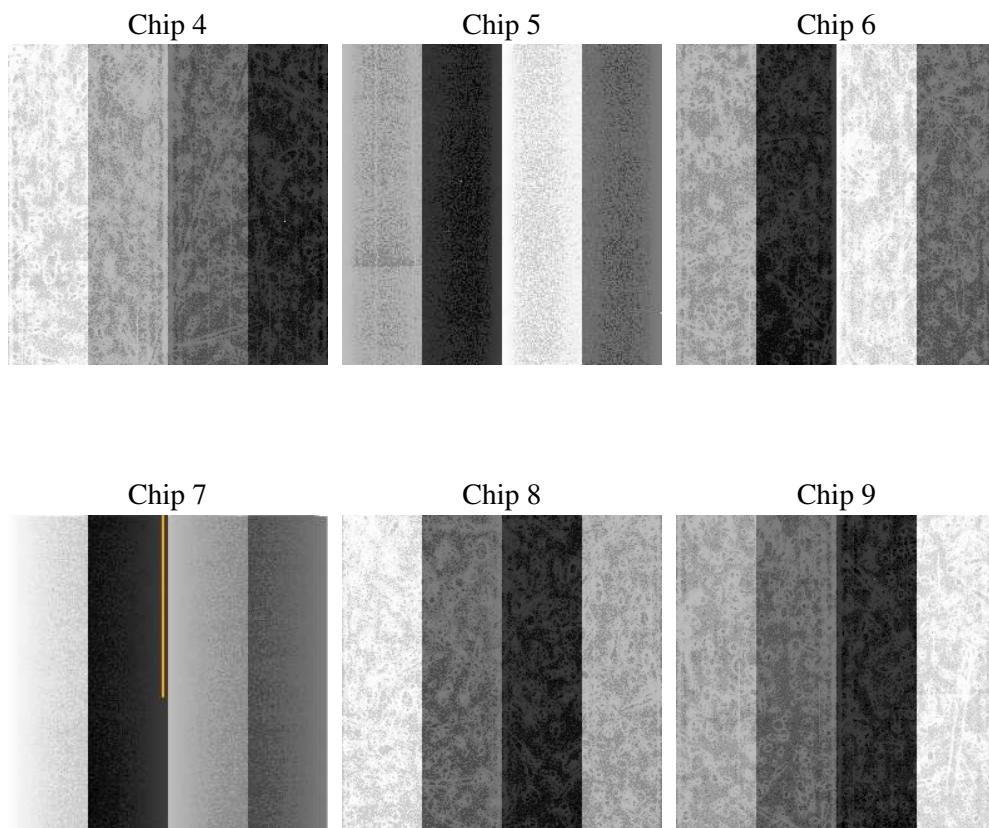
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0
ascdsver	7.6.7.1
caldsver	3.2.1
date	2006-04-04T19:53:01
revision	2

sched_exp_time	18300.000000
ontime	18603.362788558
ontime4	18603.36276868
ontime5	18603.36276868
ontime6	18603.36276868
ontime7	18603.362788558
ontime8	18603.36276868
ontime9	18603.36276868
l1events	1109962

2.1.4 Events

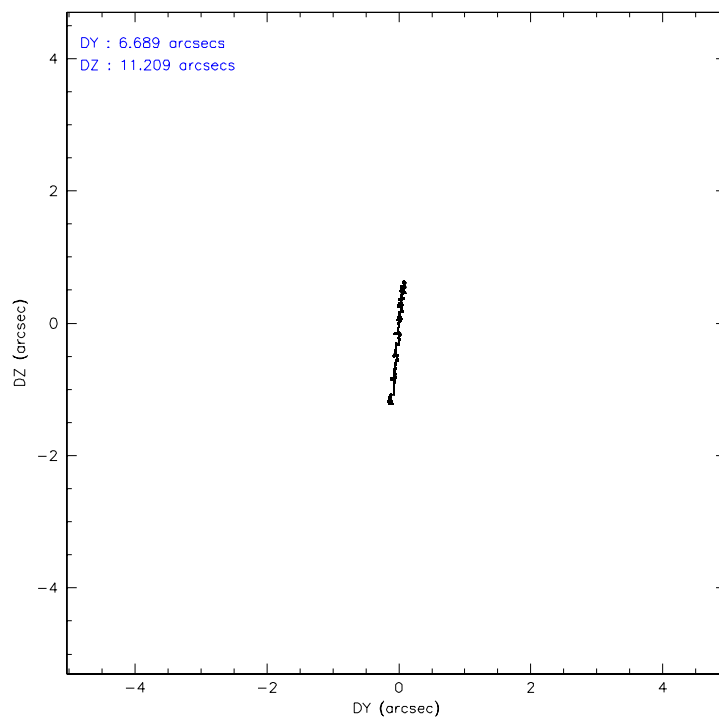
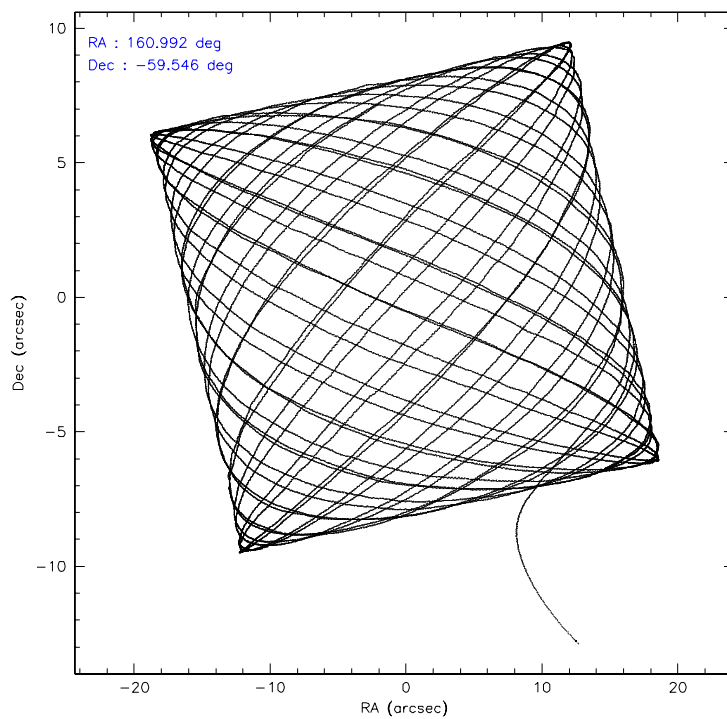
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	168928	234871	153449	208629	190963	153122
rejected events	145046	126033	132995	125338	145411	131394
rejected %	85%	53%	86%	60%	76%	85%

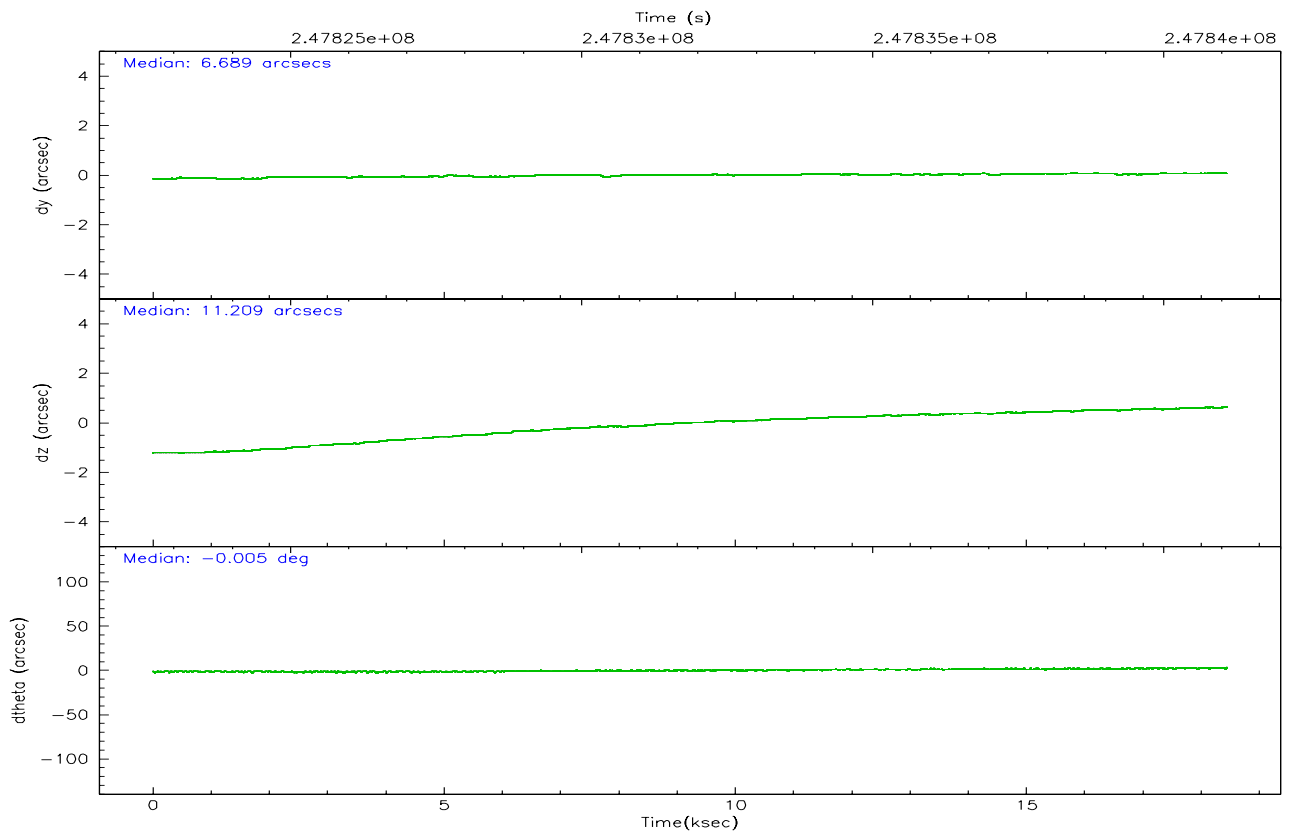
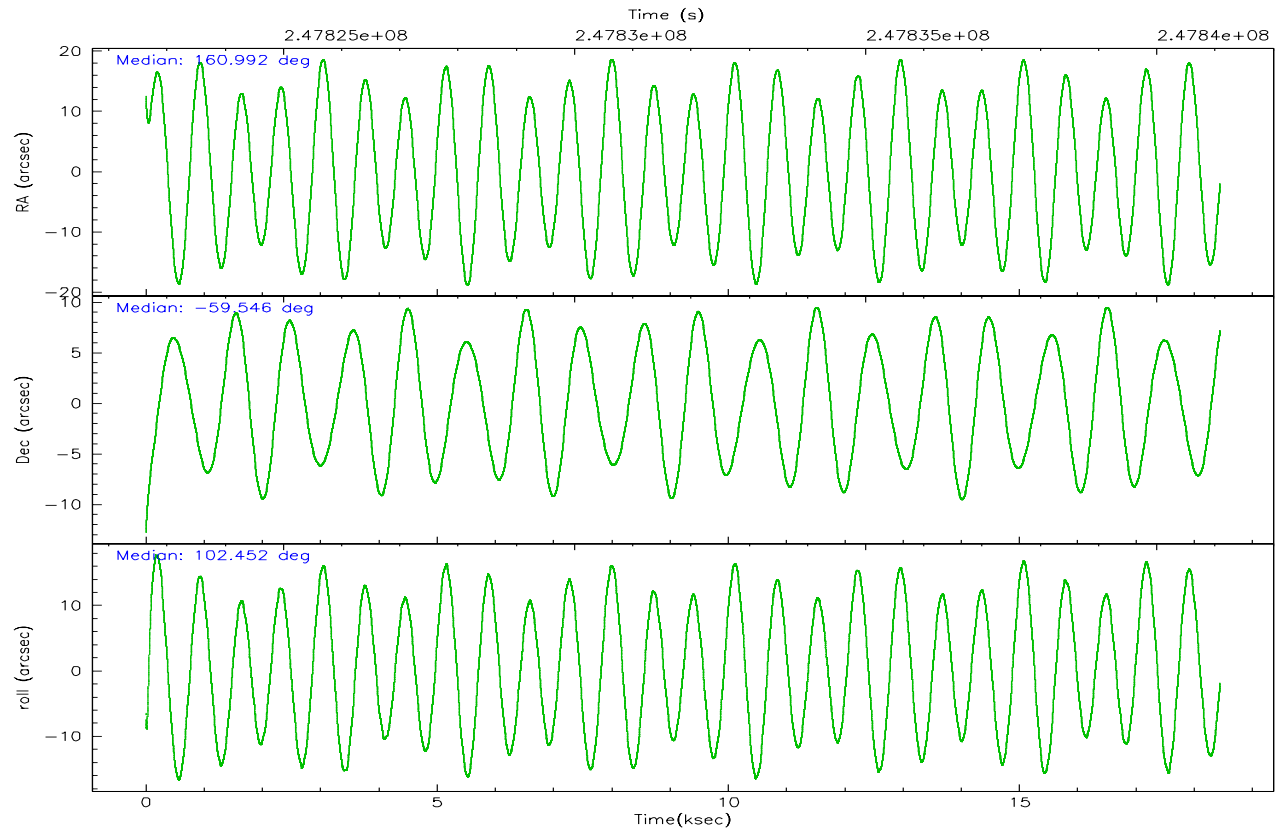
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	13720	17624	9478	5992	17478	10597
	8%	7%	6%	2%	9%	6%
grade 1 events	215	474	91	123	161	121
	0%	0%	0%	0%	0%	0%
grade 2 events	3842	31541	4014	21308	9526	3923
	2%	13%	2%	10%	4%	2%
grade 3 events	1844	2048	1838	4709	4311	1972
	1%	0%	1%	2%	2%	1%
grade 4 events	1829	2020	1723	4385	3994	1839
	1%	0%	1%	2%	2%	1%
grade 5 events	6649	10671	7070	13250	9180	7524
	3%	4%	4%	6%	4%	4%
grade 6 events	2856	56562	3602	47660	10670	3622
	1%	24%	2%	22%	5%	2%
grade 7 events	137973	113931	125633	111202	135643	123524
	81%	48%	81%	53%	71%	80%

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	161.029106	160.9922897928197	Alternating exposures requested	N	N
Pointing Dec	-59.565754	-59.54595510157242	Primary exposure time	0.000000	3.2
Pointing Roll	102.334079	102.4589485330511			
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	247822786.184000	247821598.26397			
Observation start date	2005-11-08T07:38:42	2005-11-08T07:19:58			
Observation end time	247841086.184000	247841973.21491			
Observation end date	2005-11-08T12:43:42	2005-11-08T12:59:33			
Read mode	TIMED	TIMED			

2.3 Aspect



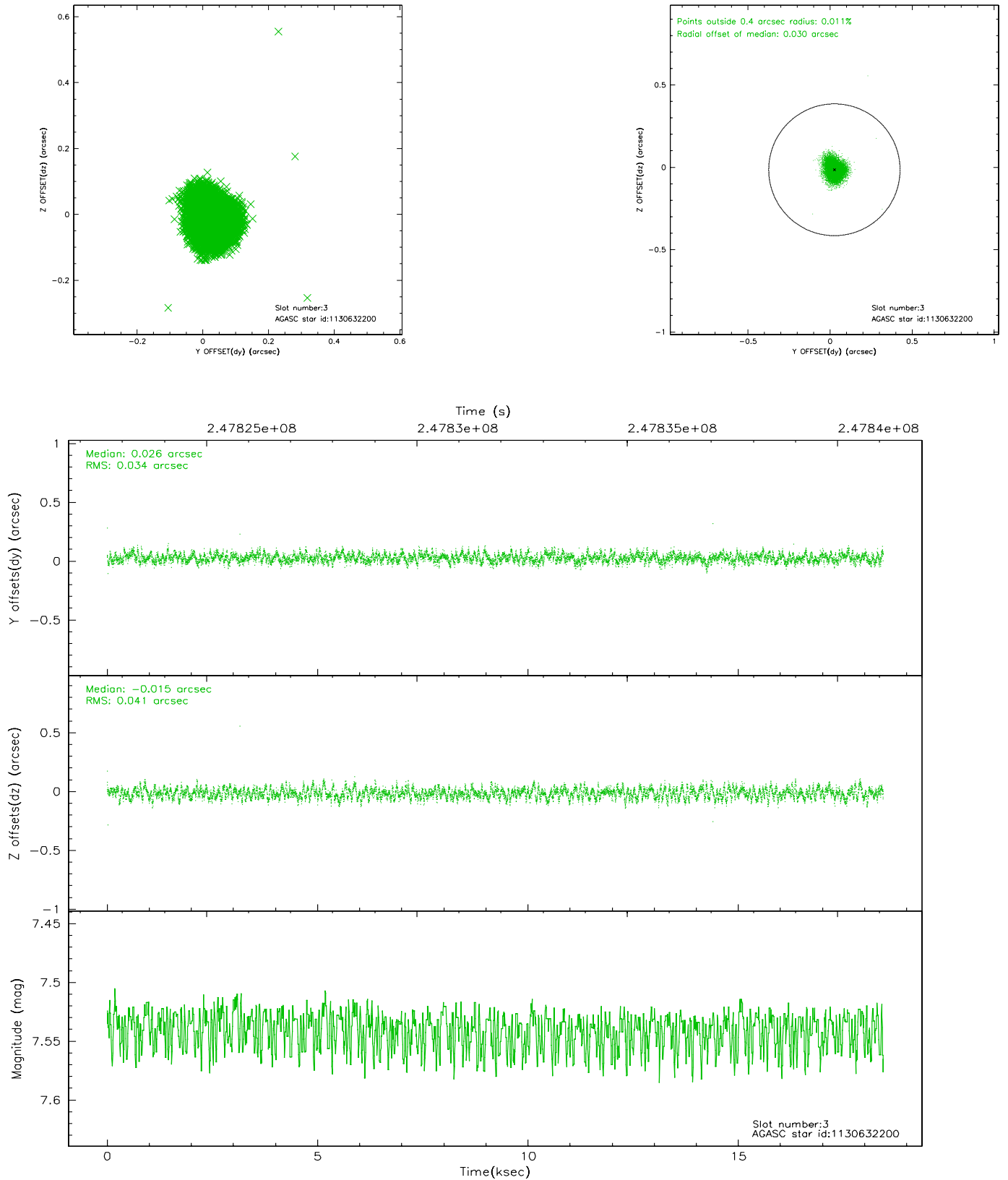


Slot Statistics

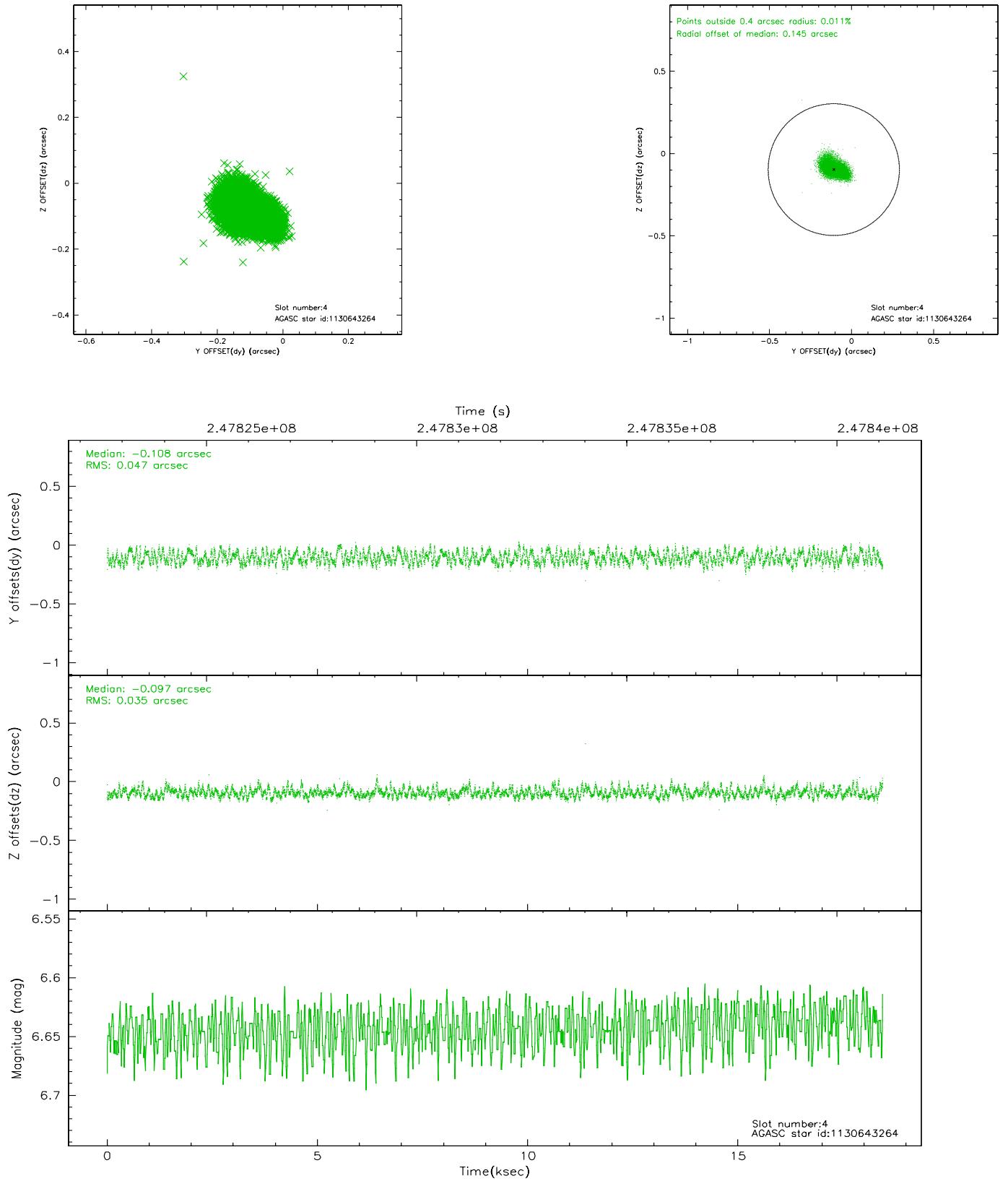
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	4500	-0.046	-0.009	0.013	0.019	0.000000	0.000000	-759.44	-1732.36
1	FID	ACIS-S-4	7.21	4499	0.051	0.024	0.012	0.019	0.000000	0.000000	2153.81	175.97
2	FID	ACIS-S-5	7.23	4500	-0.038	-0.007	0.009	0.014	0.000000	0.000000	-1812.03	169.81
3	GUIDE	1130632200	7.54	8999	0.026	-0.015	0.057	0.088	161.433843	-59.407820	395.33	-845.26
4	GUIDE	1130643264	6.64	8999	-0.108	-0.097	0.063	0.099	160.322990	-59.676912	-123.32	1340.58
5	GUIDE	1130644984	8.76	8918	-0.060	0.030	0.067	0.109	162.123834	-59.745452	-1071.65	-1797.94
6	GUIDE	1128940640	8.36	8992	0.127	0.103	0.061	0.099	159.517239	-59.074495	2294.31	2361.75
7	GUIDE	1130640672	8.29	8996	0.011	-0.021	0.073	0.116	162.096044	-59.540805	-342.58	-1917.62

2.4 Star Slots

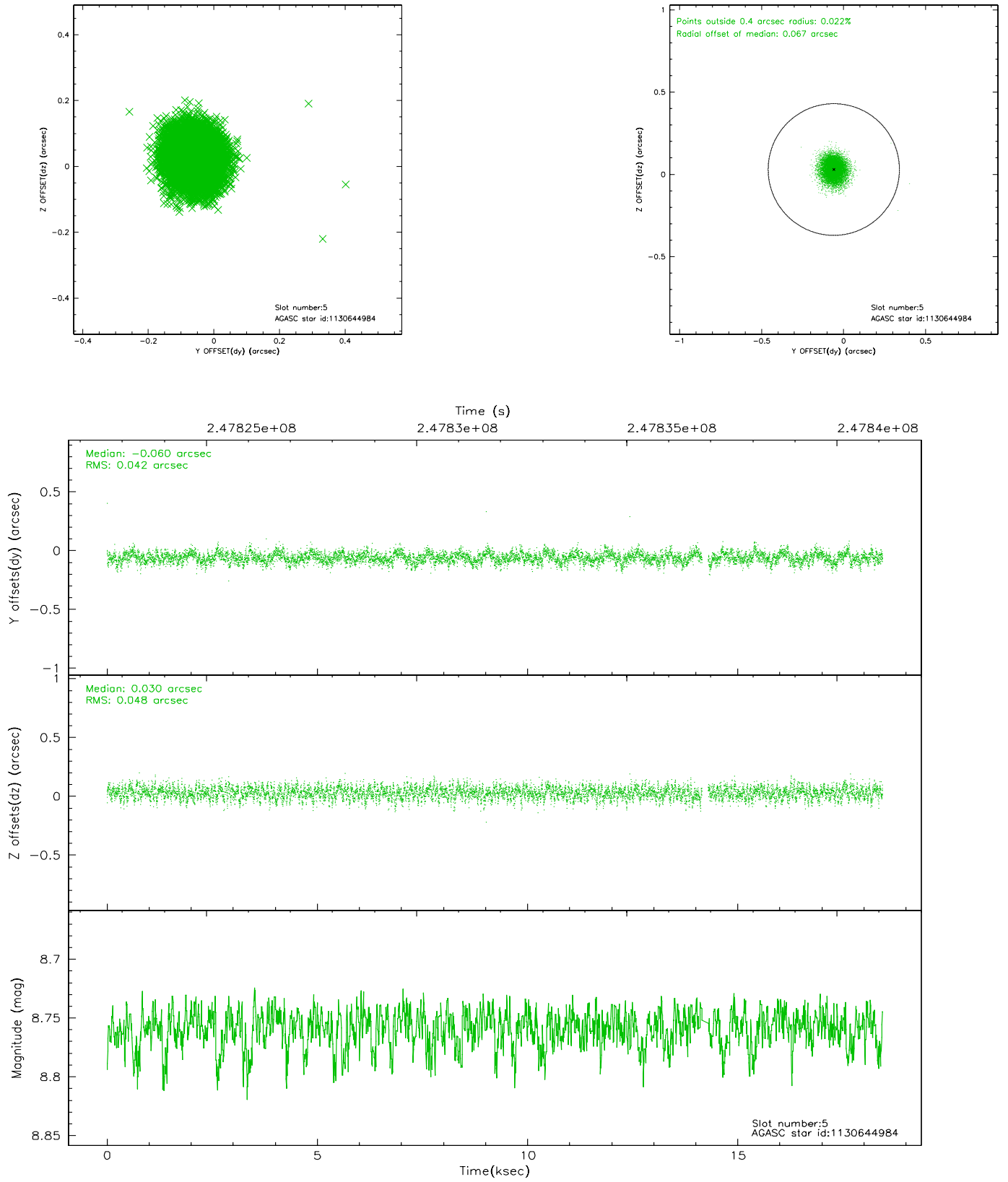
2.4.1 Slot 3



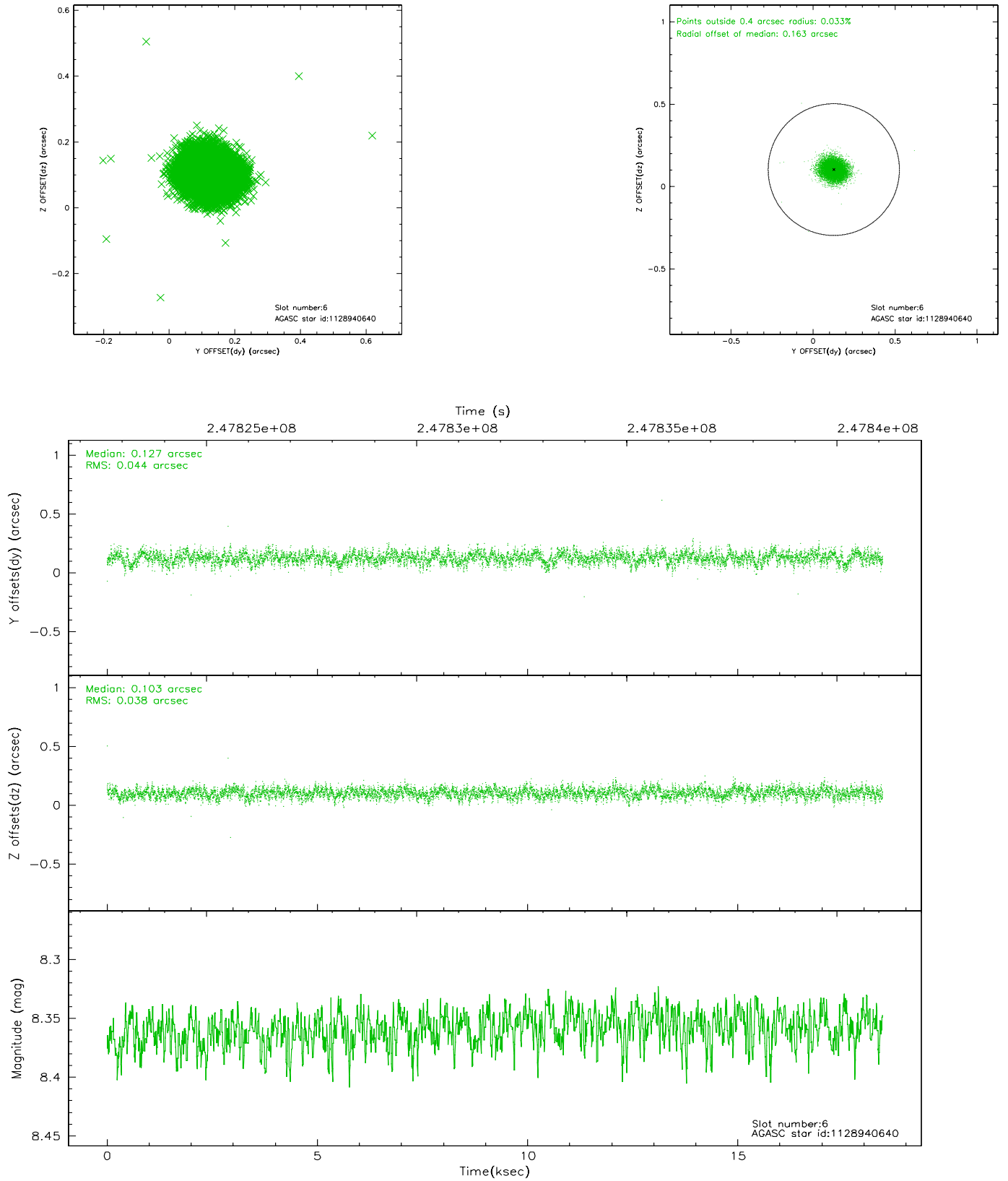
2.4.2 Slot 4



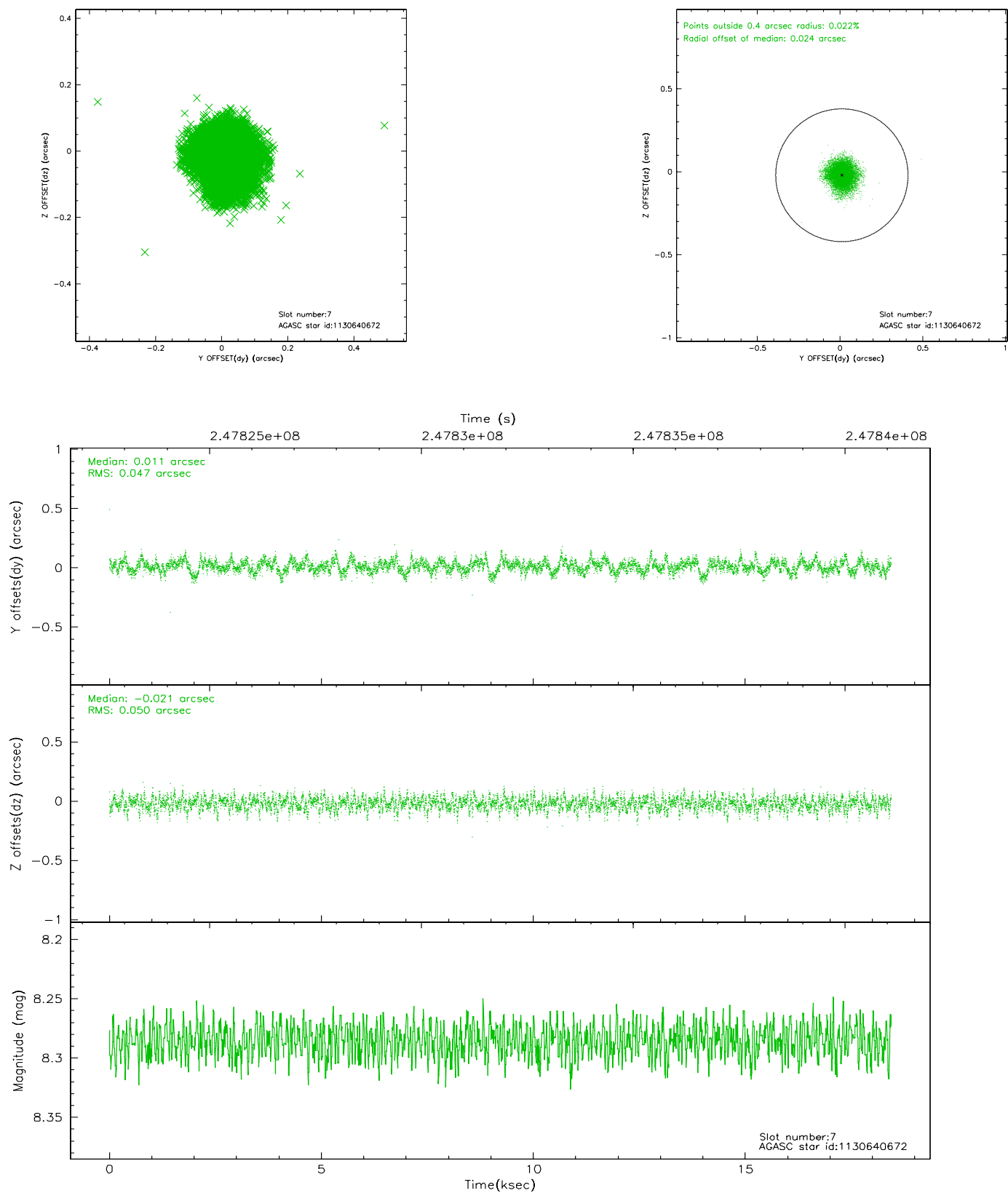
2.4.3 Slot 5



2.4.4 Slot 6

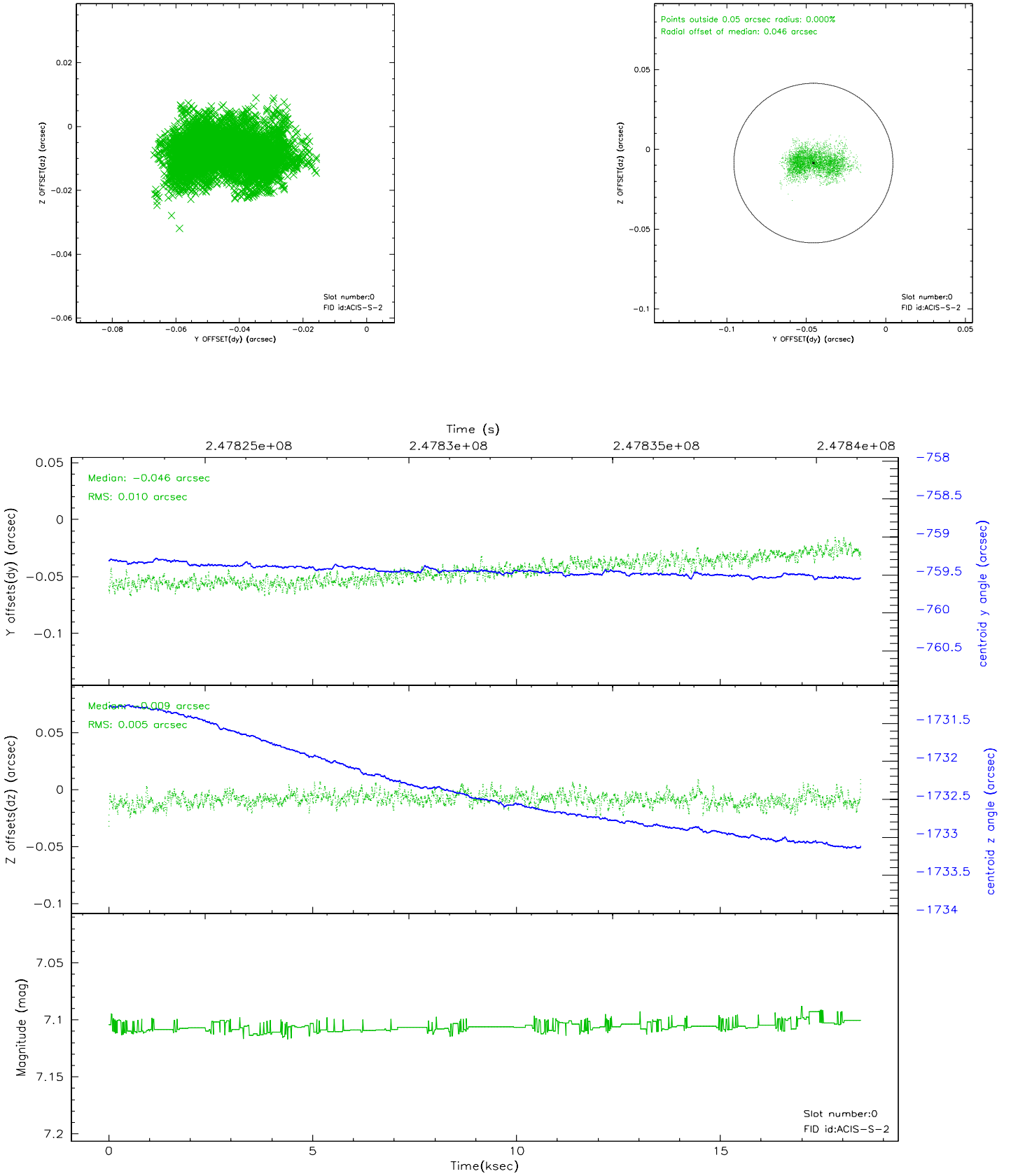


2.4.5 Slot 7

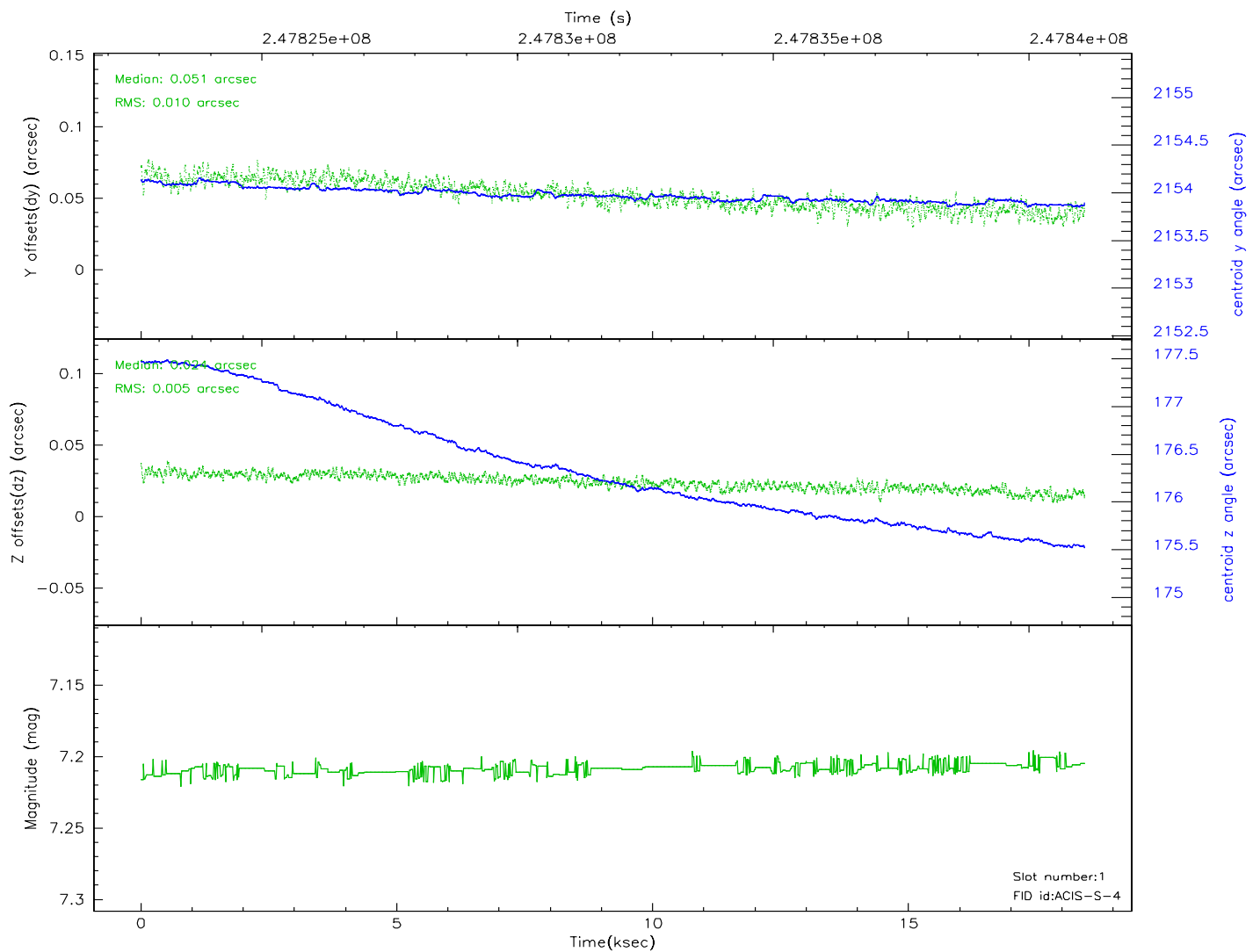
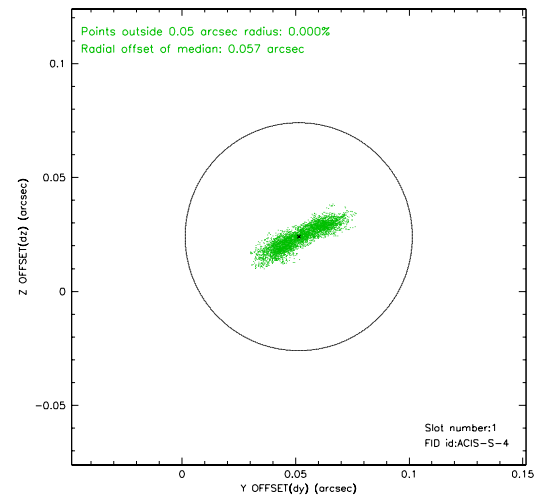
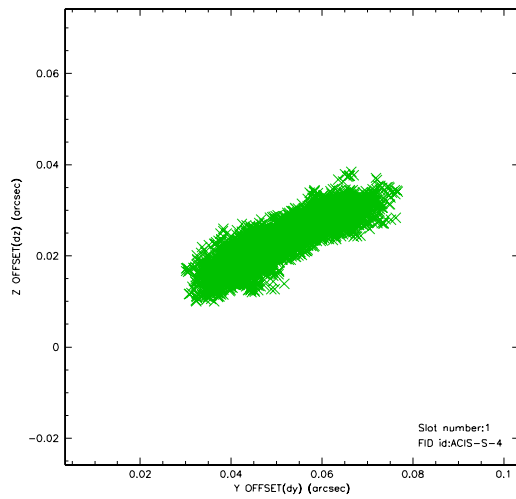


2.5 FID Slots

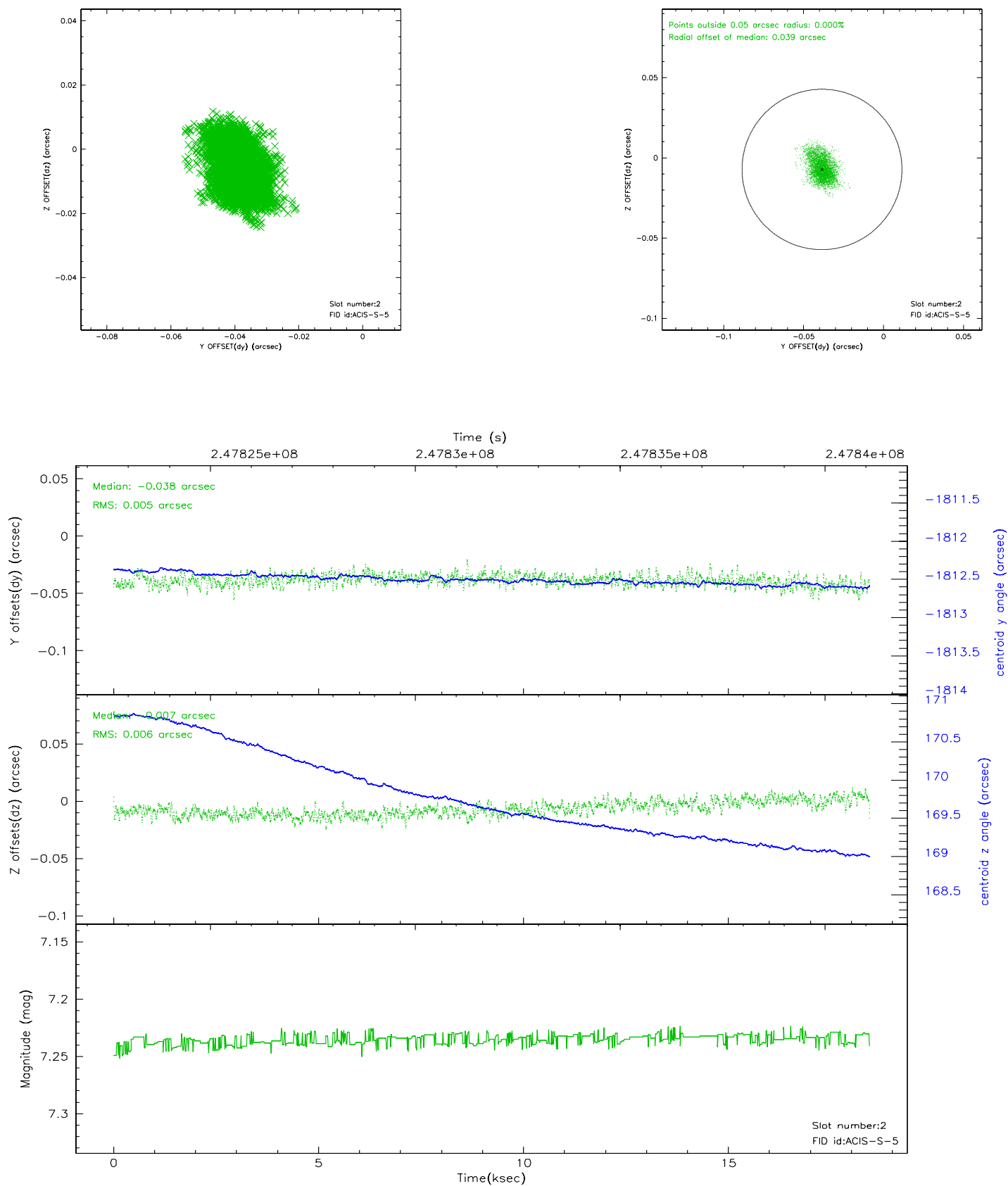
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2

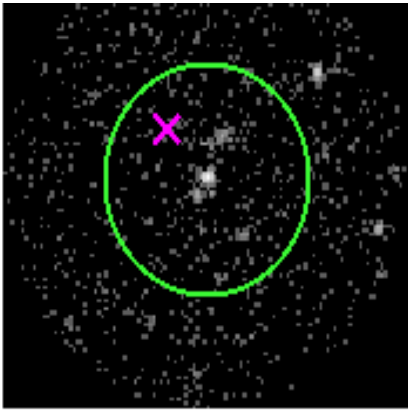


3 Gratings

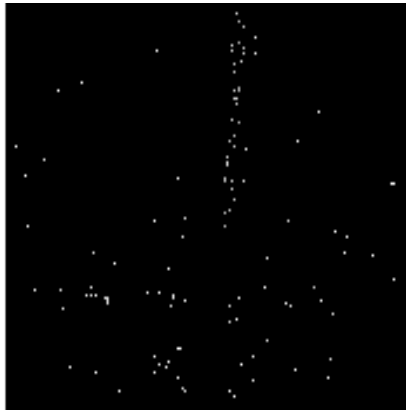
3.1 HEG Arm



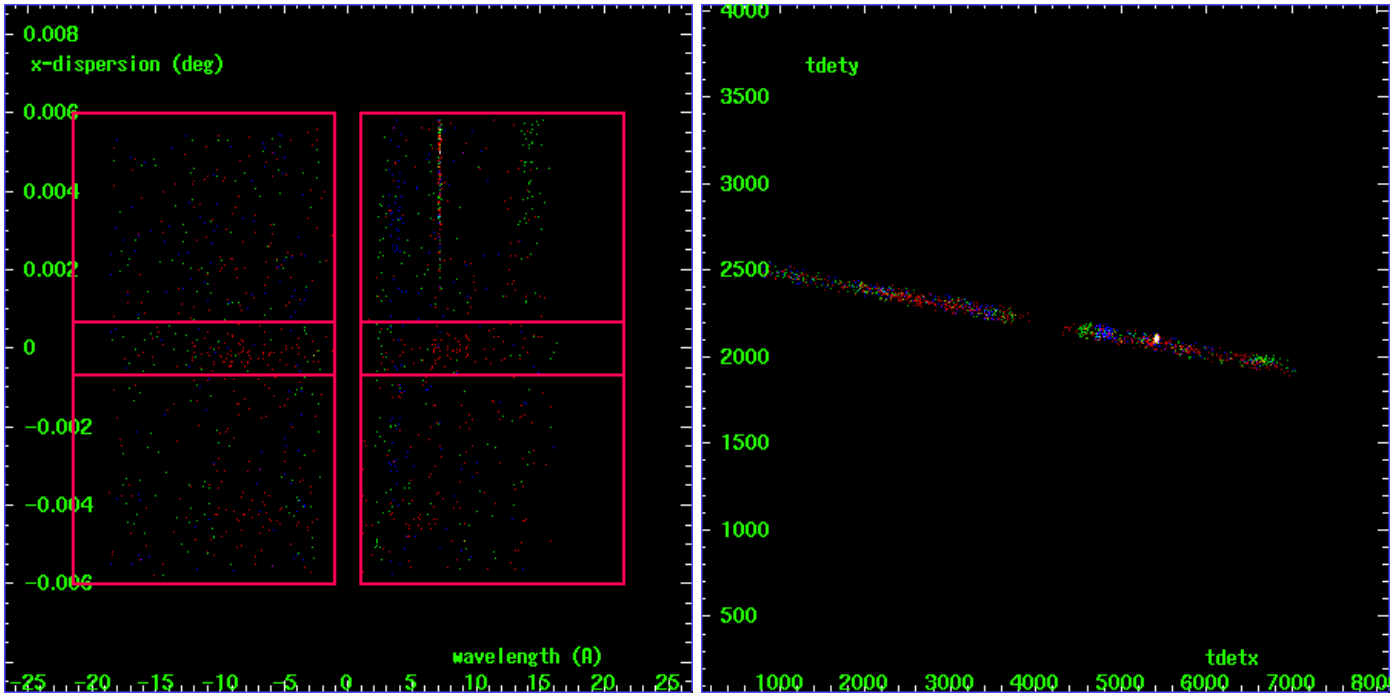
HEG Order Sort 123



HEG Zero Order



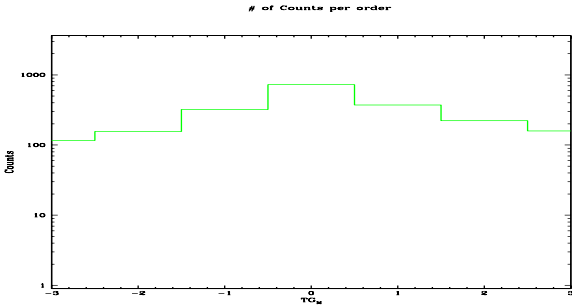
HEG Order Sort ALL

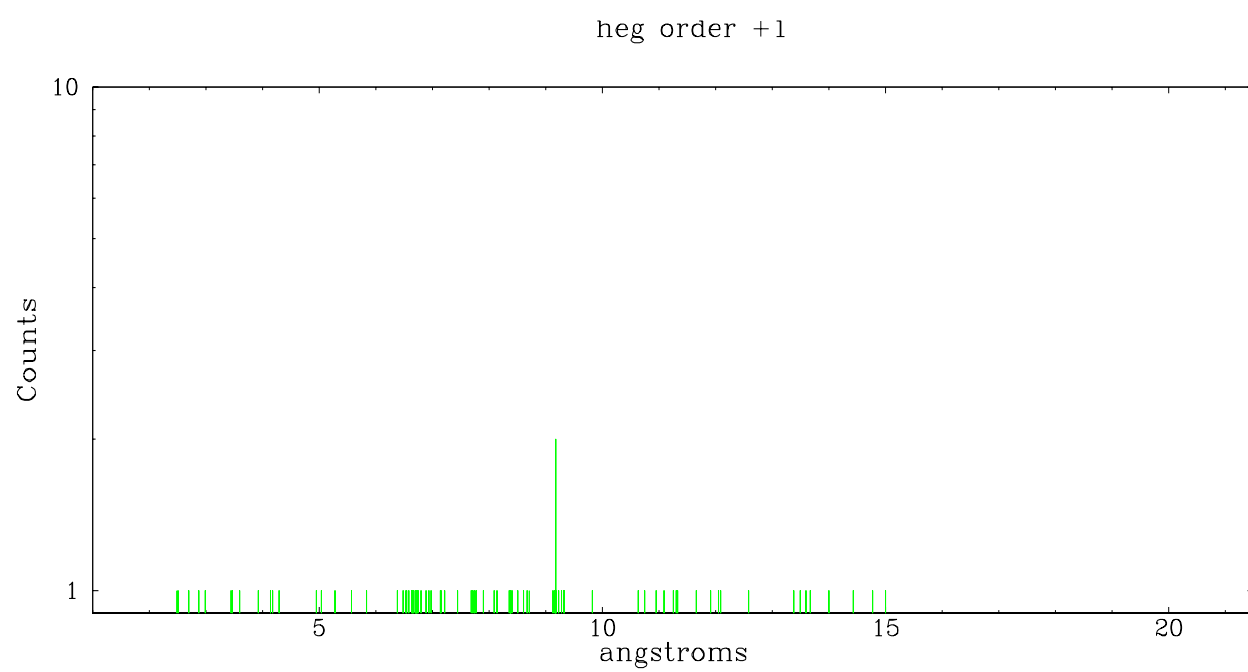
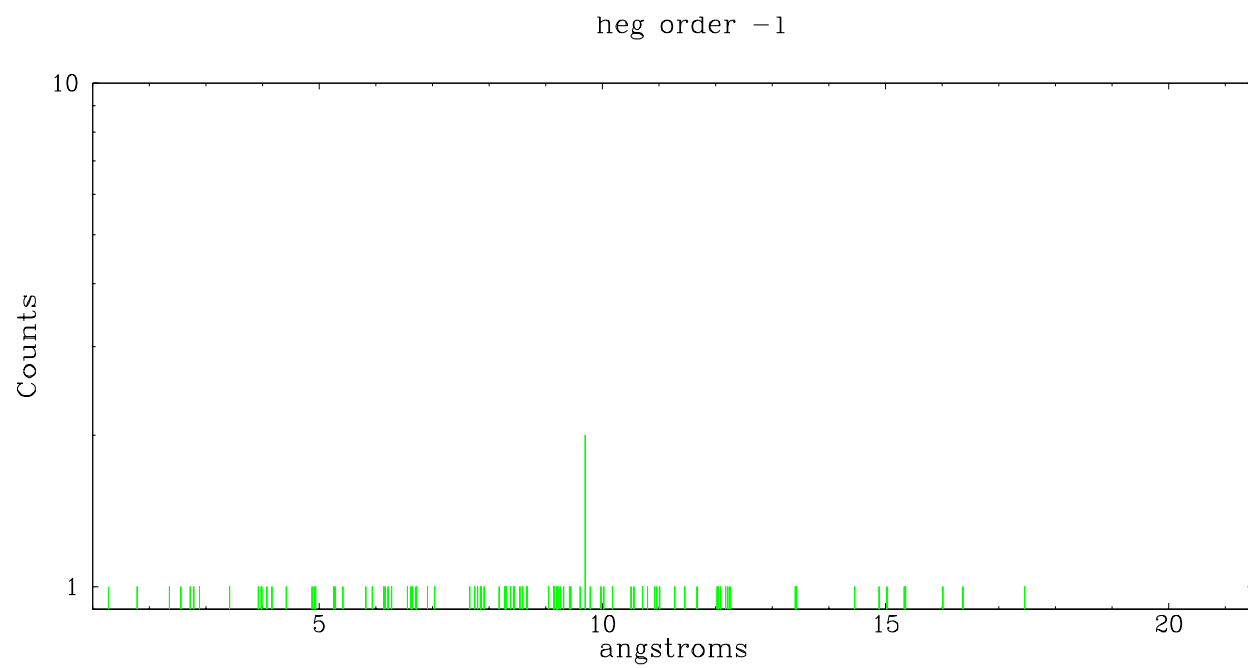


Spot Image HEG

Full Detector HEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	116	156	321	724	371	223	159

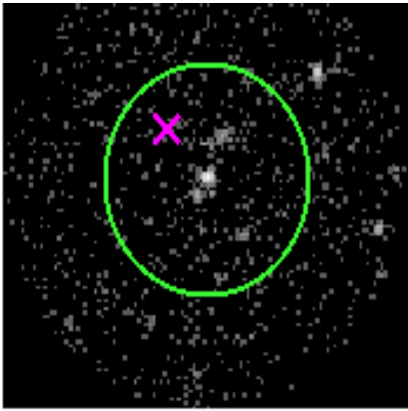




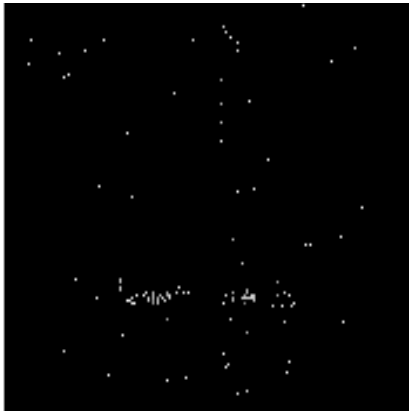
3.2 MEG Arm



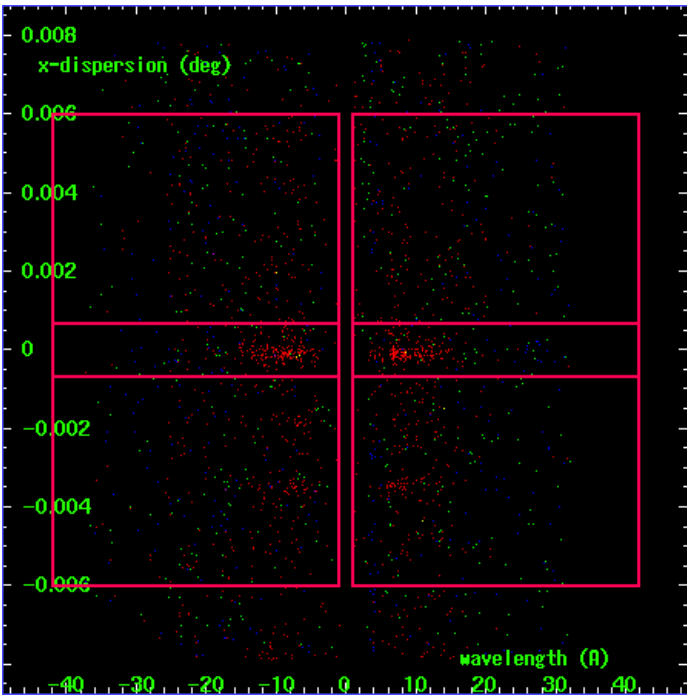
MEG Order Sort 123



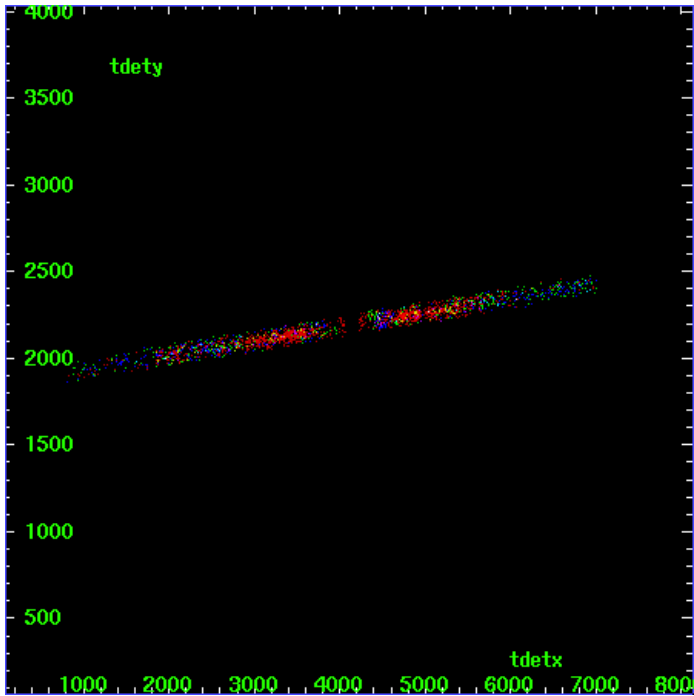
MEG Zero Order



MEG Order Sort ALL

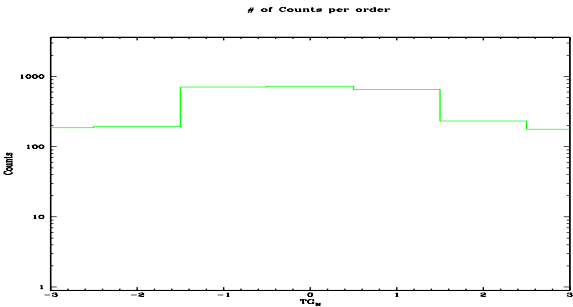


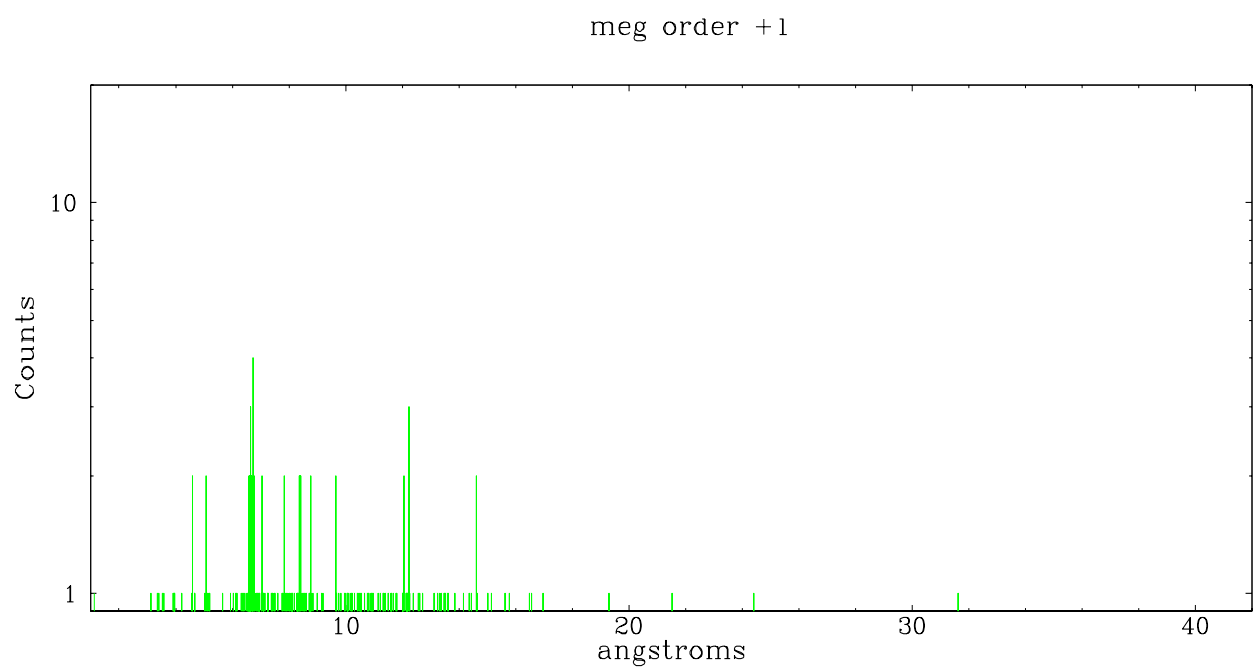
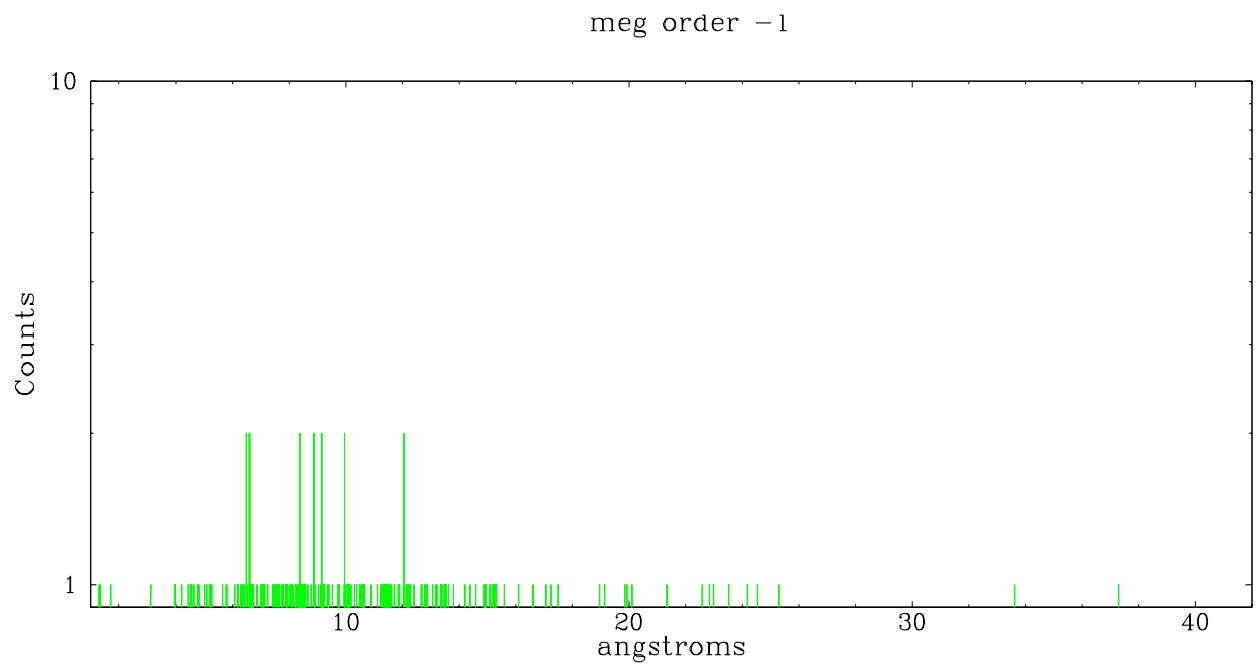
Spot Image MEG



Full Detector MEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	186	193	706	724	655	232	177





A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2006.04.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	18.43839

A.2 Comments

Several x-ray sources are included in the region defining the zeroth order
and in the dispersed spectrum. Spectrum may need to be re-extracted
in CIAO to separate the sources.

Serendipitous zeroth order image and dispersed spectrum of HD 93162
present; zeroth order of HD93162 has a bad CCD row and off-axis PSF.
The zeroth order and the dispersed spectrum of HD93162 lie on top of the
spectral arm of the dispersed spectrum of the primary target.