

V&V Reference Report

L2 ASCDS Version : 7.6.9

Observation 2338 - L2 Version 001
Chandra X-Ray Center

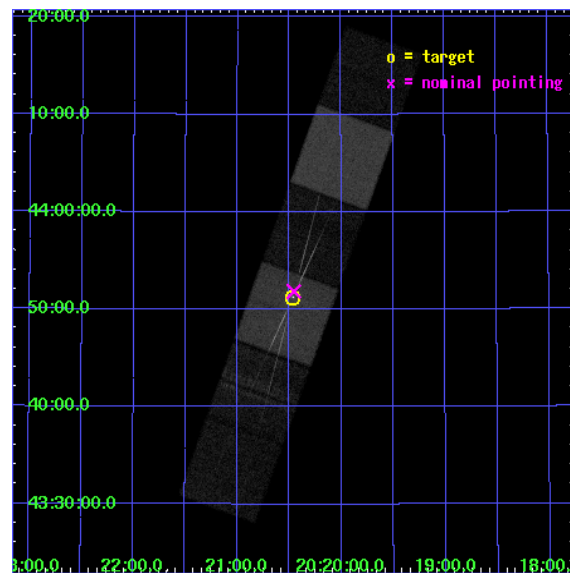
L2 Processing Date : Nov 30 2006

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1 Front

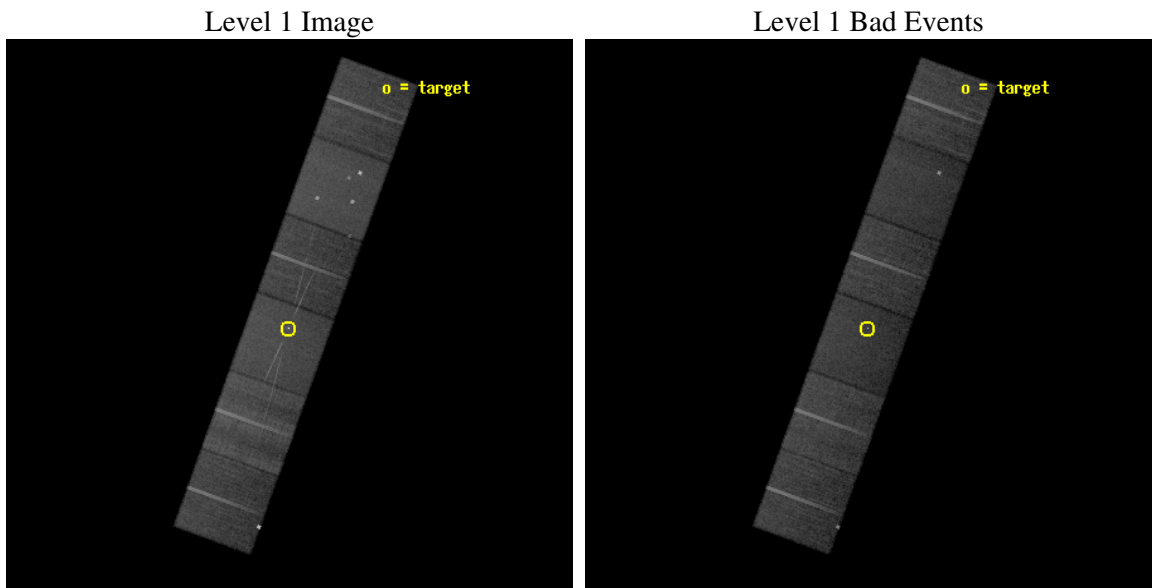
seq_num	200125
obs_id	2338
title	CAPTURING WR140 AT PERIASTRON WITH THE CHANDRA HETG
observer	Mr Andrew Pollock
object	WR140
dtcycle	0
cycle	P
ra_targ	305.116667
dec_targ	43.854528
ra_nom	305.1143745057
dec_nom	43.864169226159
roll_nom	109.90524530194
revision	2
ontime	24848.000023142
livetime	24533.359685179
ontime4	24848.000023142
ontime5	24848.000023142
ontime6	24848.000023142
ontime7	24848.000023142
ontime8	24848.000023142
ontime9	24848.000023142
l2events	252772



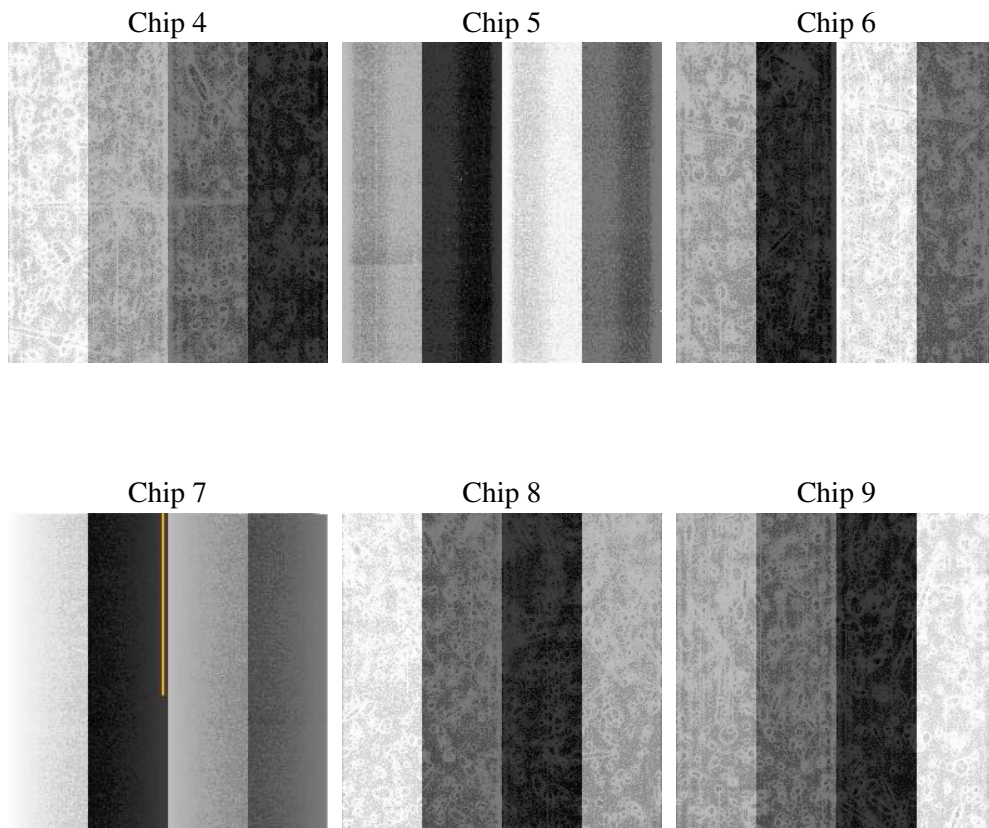
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0
ascdsver	7.6.9
caldsver	3.2.4
date	2006-11-29T22:18:51
revision	2

sched_exp_time	25089.551000
ontime	24851.970404565
ontime4	24851.970404565
ontime5	24851.970404565
ontime6	24851.970404565
ontime7	24851.970404565
ontime8	24851.970294893
ontime9	24851.970404565
l1events	1200930

2.1.4 Events

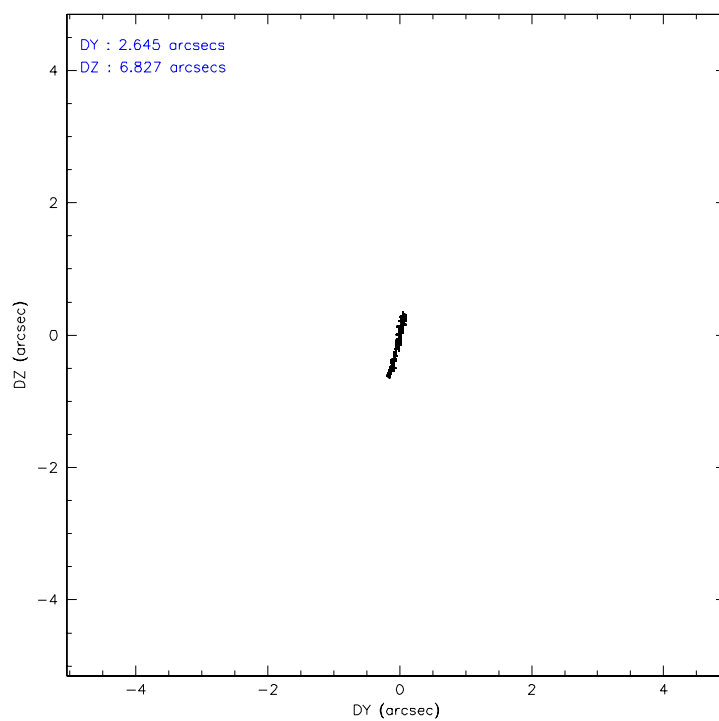
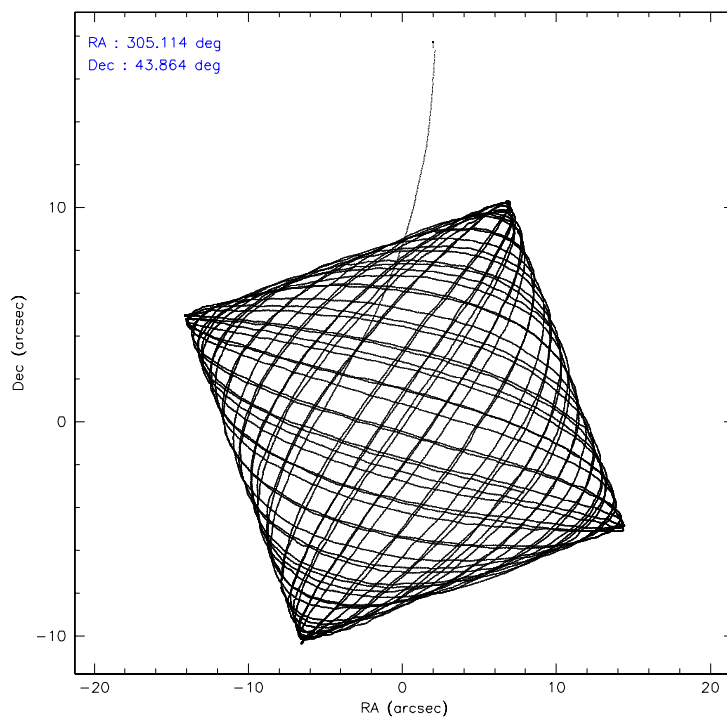
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	183906	230029	171217	214791	230138	170849
rejected events	163488	126325	147682	126212	170783	145460
rejected %	88%	54%	86%	58%	74%	85%

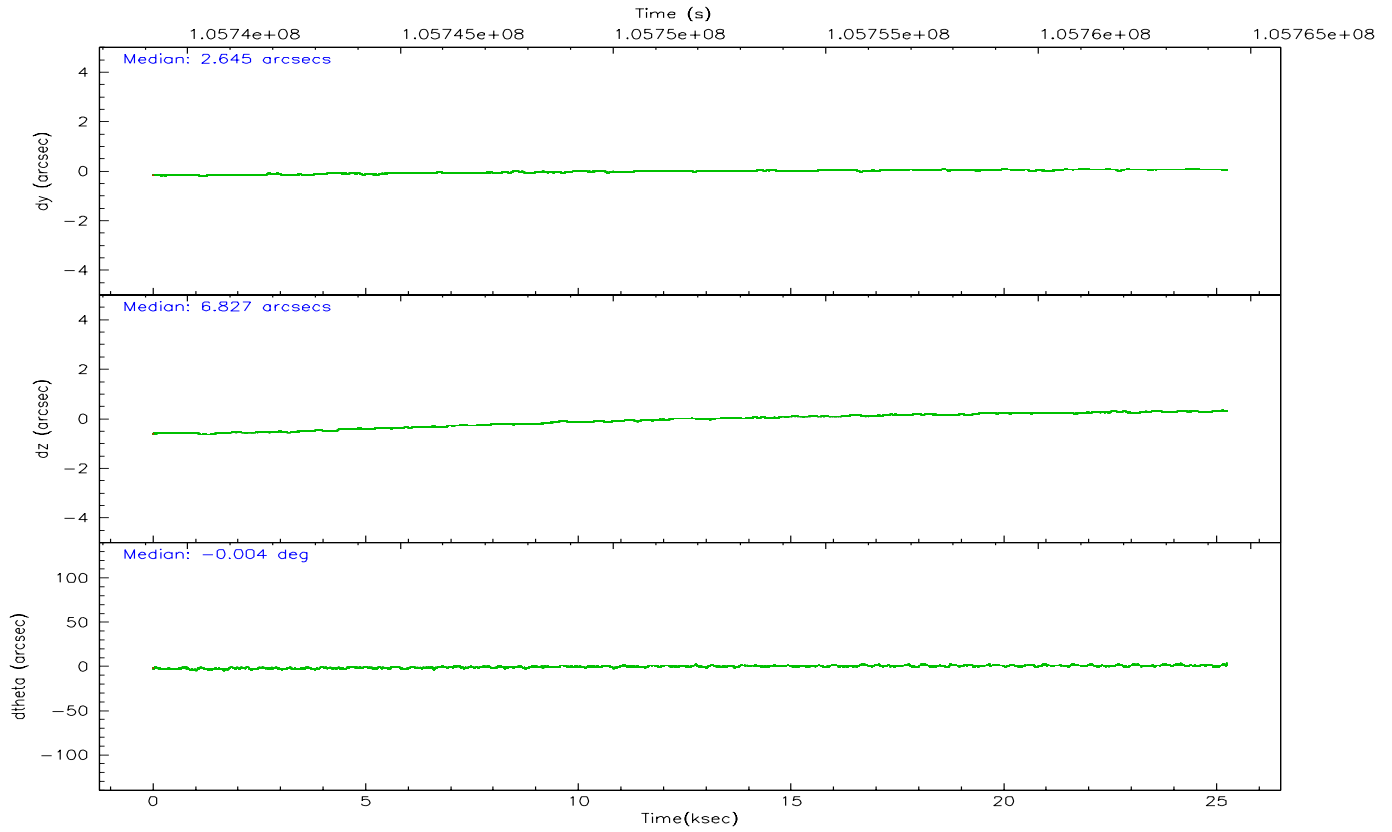
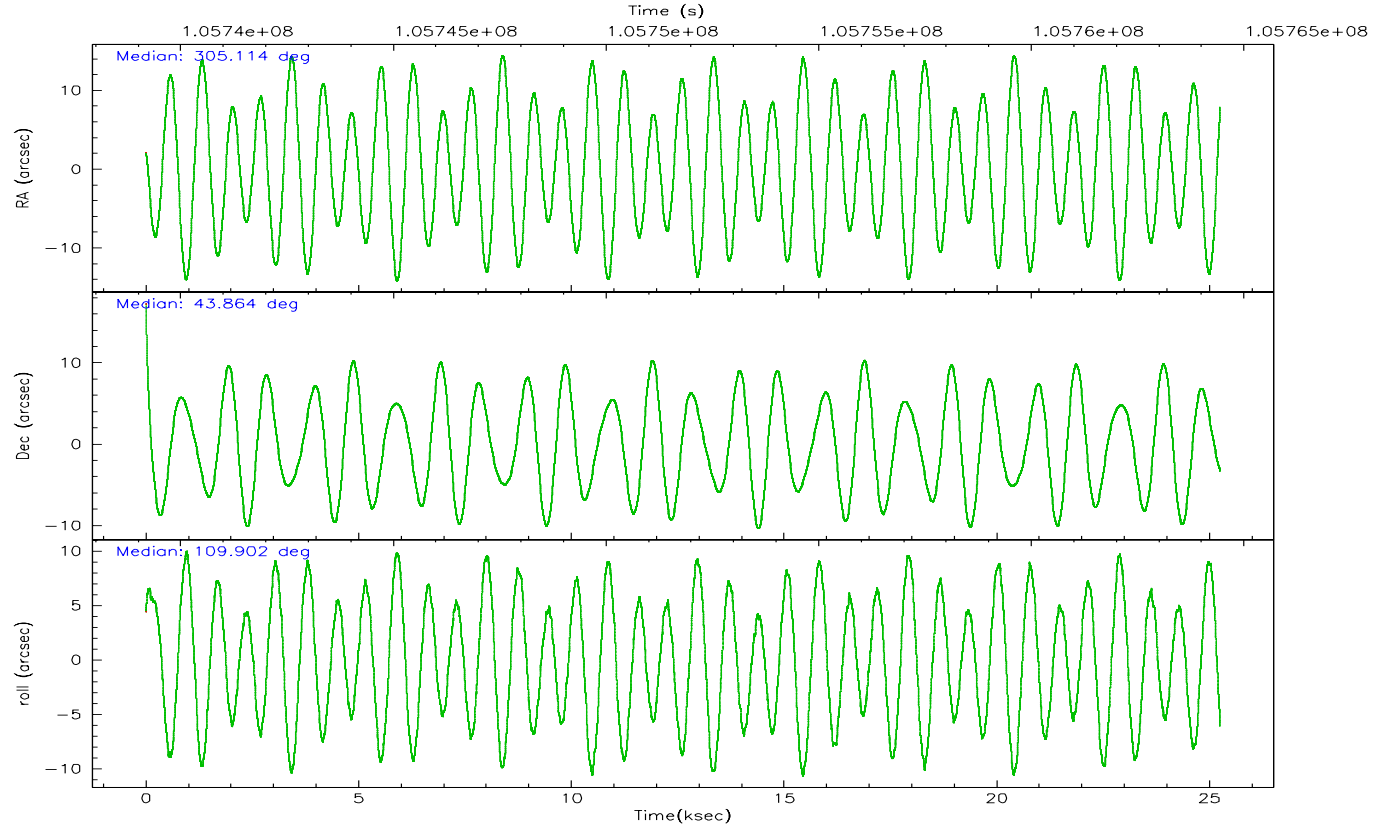
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	8028	13445	10938	6232	17390	13861
	4%	5%	6%	2%	7%	8%
grade 1 events	94	2321	96	224	160	1343
	0%	1%	0%	0%	0%	0%
grade 2 events	5399	30178	4645	21777	11747	4017
	2%	13%	2%	10%	5%	2%
grade 3 events	1862	2497	2020	5333	7232	1842
	1%	1%	1%	2%	3%	1%
grade 4 events	1722	2574	1975	5189	6579	1892
	0%	1%	1%	2%	2%	1%
grade 5 events	5739	10684	6640	14418	8943	7082
	3%	4%	3%	6%	3%	4%
grade 6 events	3410	55025	3958	50057	16433	3778
	1%	23%	2%	23%	7%	2%
grade 7 events	157652	113305	140945	111561	161654	137034
	85%	49%	82%	51%	70%	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	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
Pointing RA	305.143595	305.1143745057046	Subarray requested	NONE	NONE
Pointing Dec	43.846799	43.86416922615948	Alternating exposures requested	N	N
Pointing Roll	109.728374	109.9052453019358	Primary exposure time	0.000000	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	105739349.184000	105738481.97774			
Observation start date	2001-05-08T20:01:25	2001-05-08T19:48:01			
Observation end time	105764438.184000	105764752.72876			
Observation end date	2001-05-09T02:59:34	2001-05-09T03:05:52			
Read mode	TIMED	TIMED			

2.3 Aspect



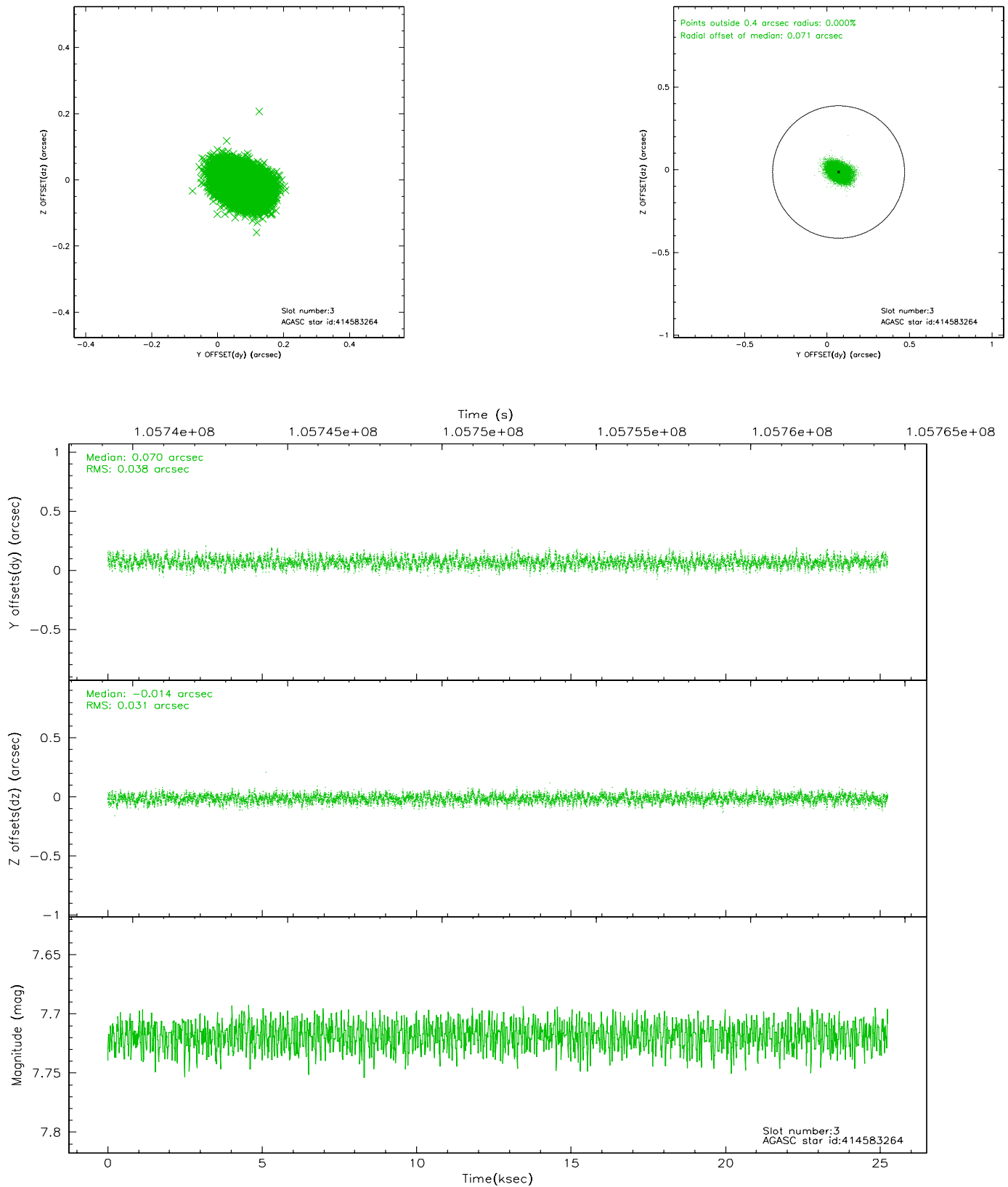


Slot Statistics

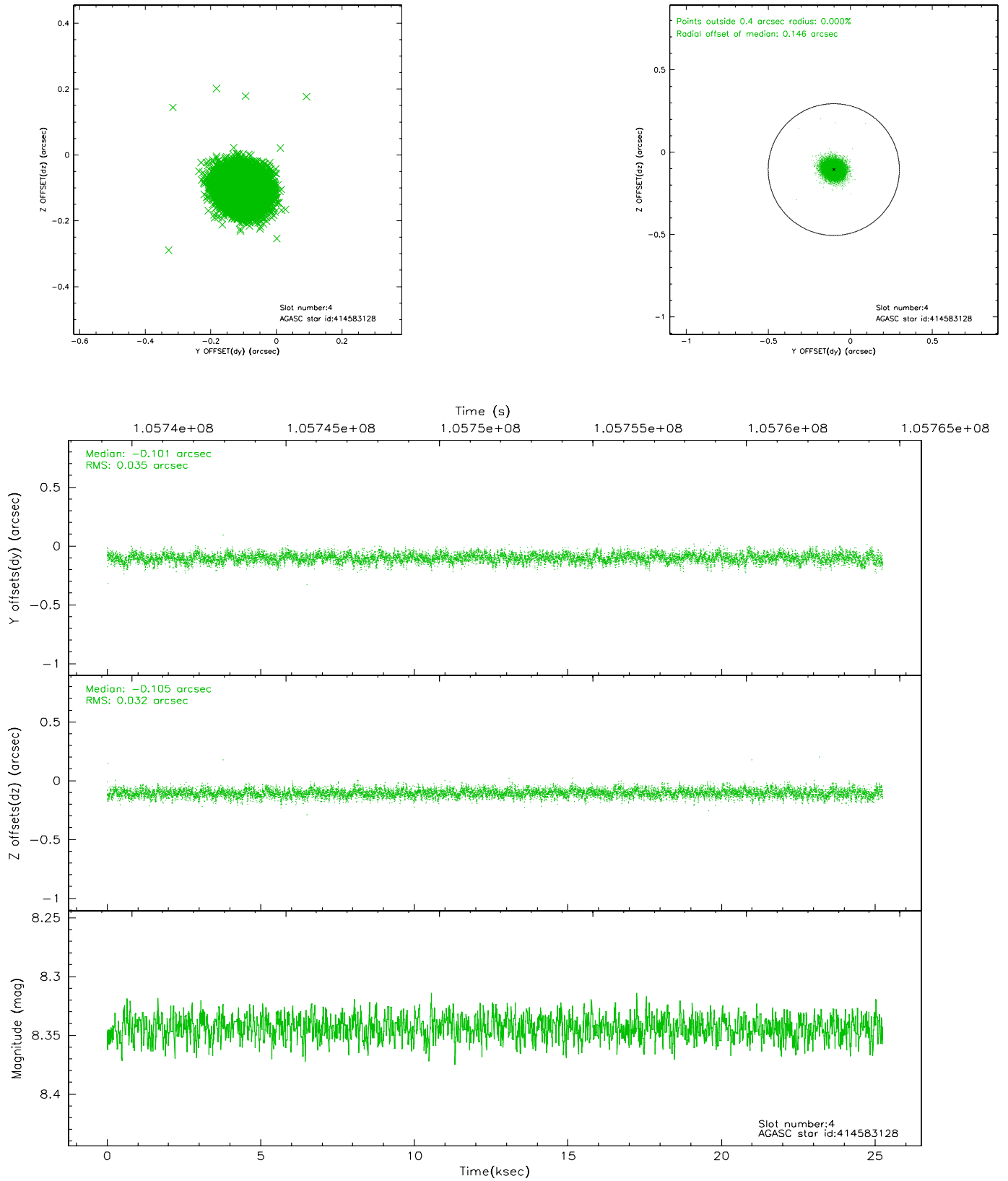
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.19	6159	0.008	-0.044	0.013	0.023	0.000000	0.000000	940.75	-1723.60
1	FID	ACIS-S-5	7.23	6158	0.034	0.021	0.017	0.027	0.000000	0.000000	-1808.11	173.96
2	FID	ACIS-S-6	7.35	6159	-0.063	0.035	0.013	0.024	0.000000	0.000000	406.16	818.02
3	GUIDE	414583264	7.72	12313	0.070	-0.014	0.052	0.086	304.893328	43.496153	-966.67	1040.39
4	GUIDE	414583128	8.34	12315	-0.101	-0.105	0.051	0.083	304.426562	44.225700	1915.58	1277.70
5	GUIDE	414723776	9.32	12310	0.209	0.098	0.080	0.129	305.795174	43.432480	-1972.41	-1102.61
6	GUIDE	414718744	8.15	12314	-0.158	0.137	0.072	0.114	305.210228	44.542005	2297.84	-1006.16
7	GUIDE	414583848	8.38	12296	-0.017	-0.116	0.057	0.093	304.983045	43.966065	545.00	245.87

2.4 Star Slots

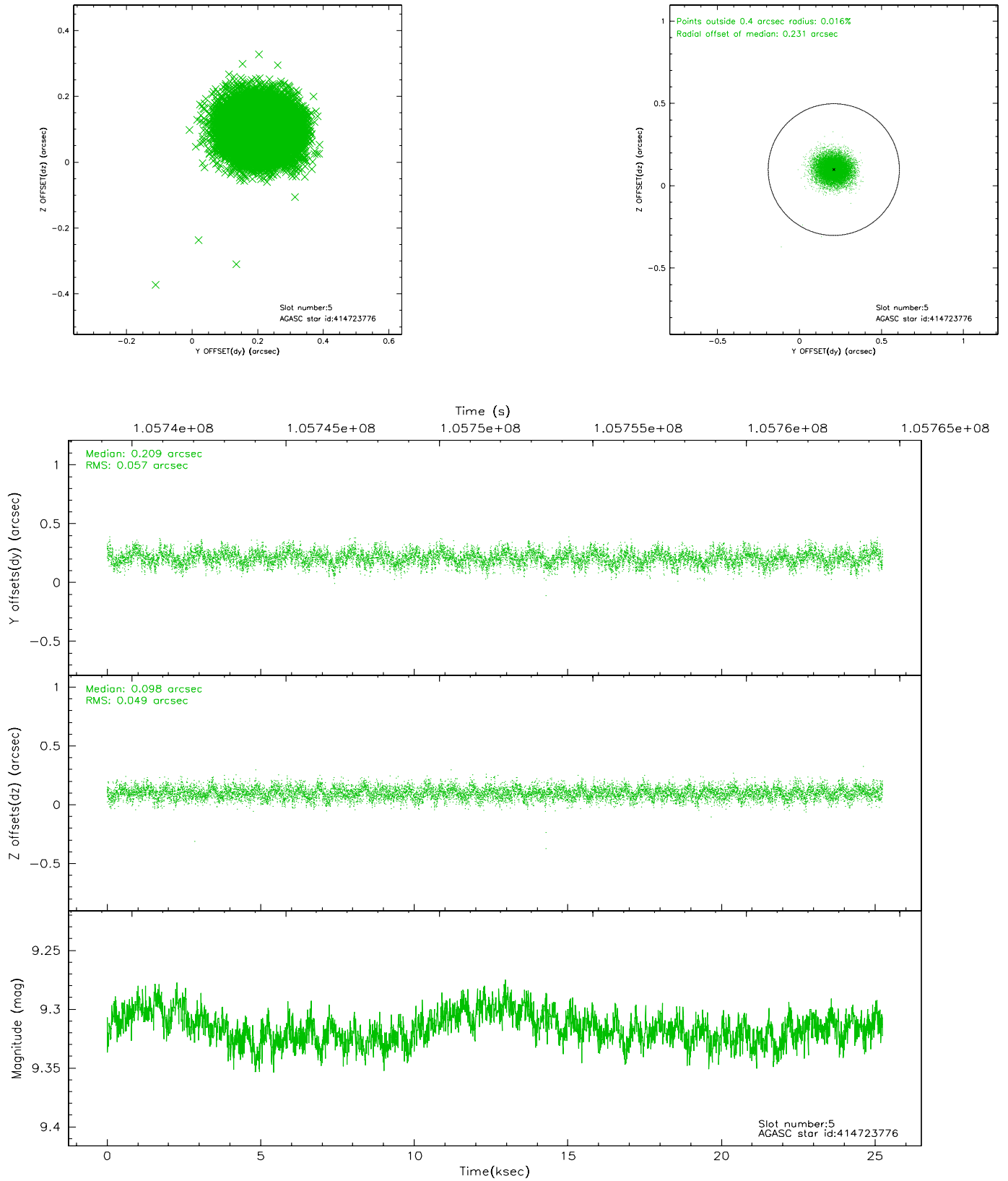
2.4.1 Slot 3



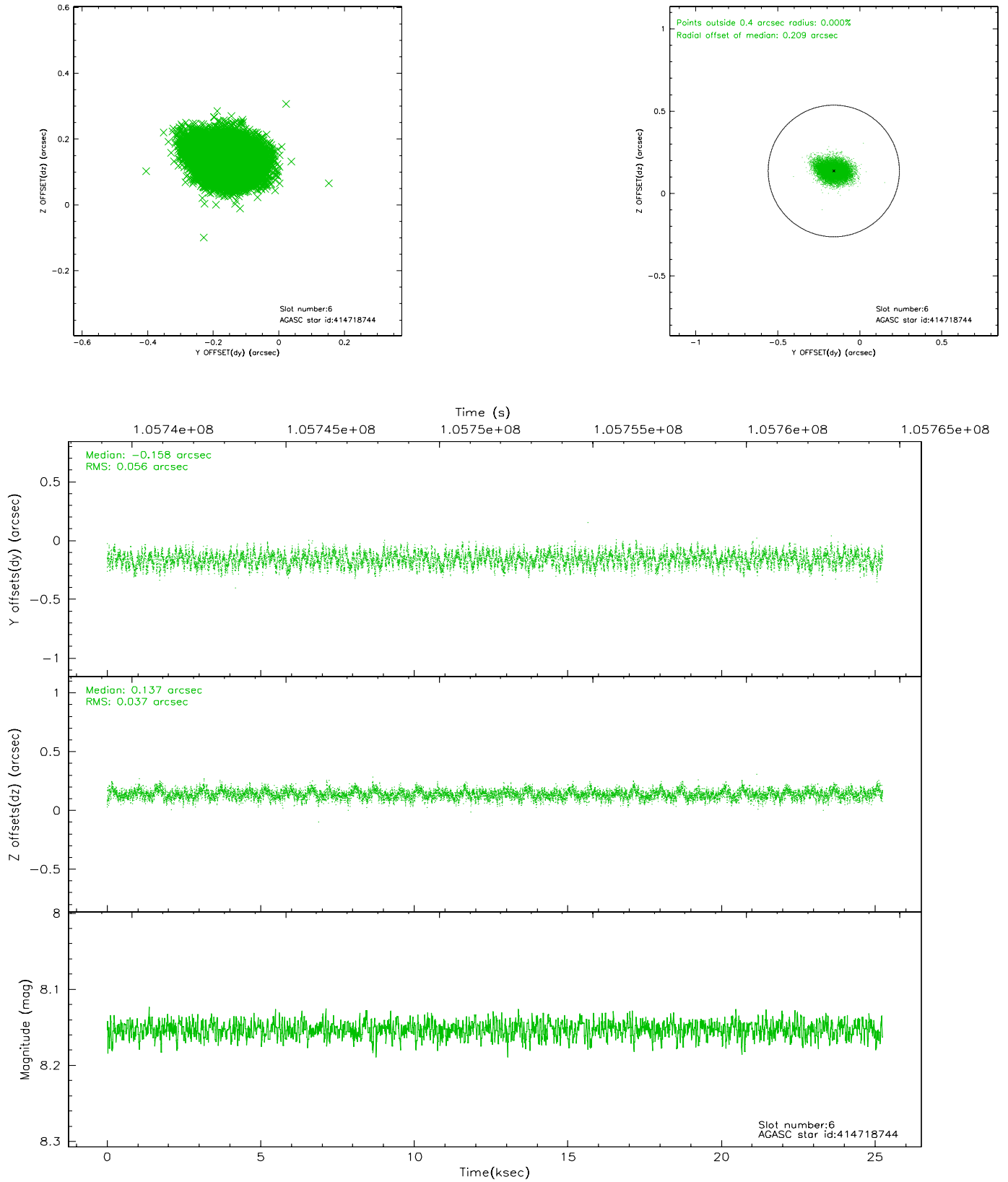
2.4.2 Slot 4



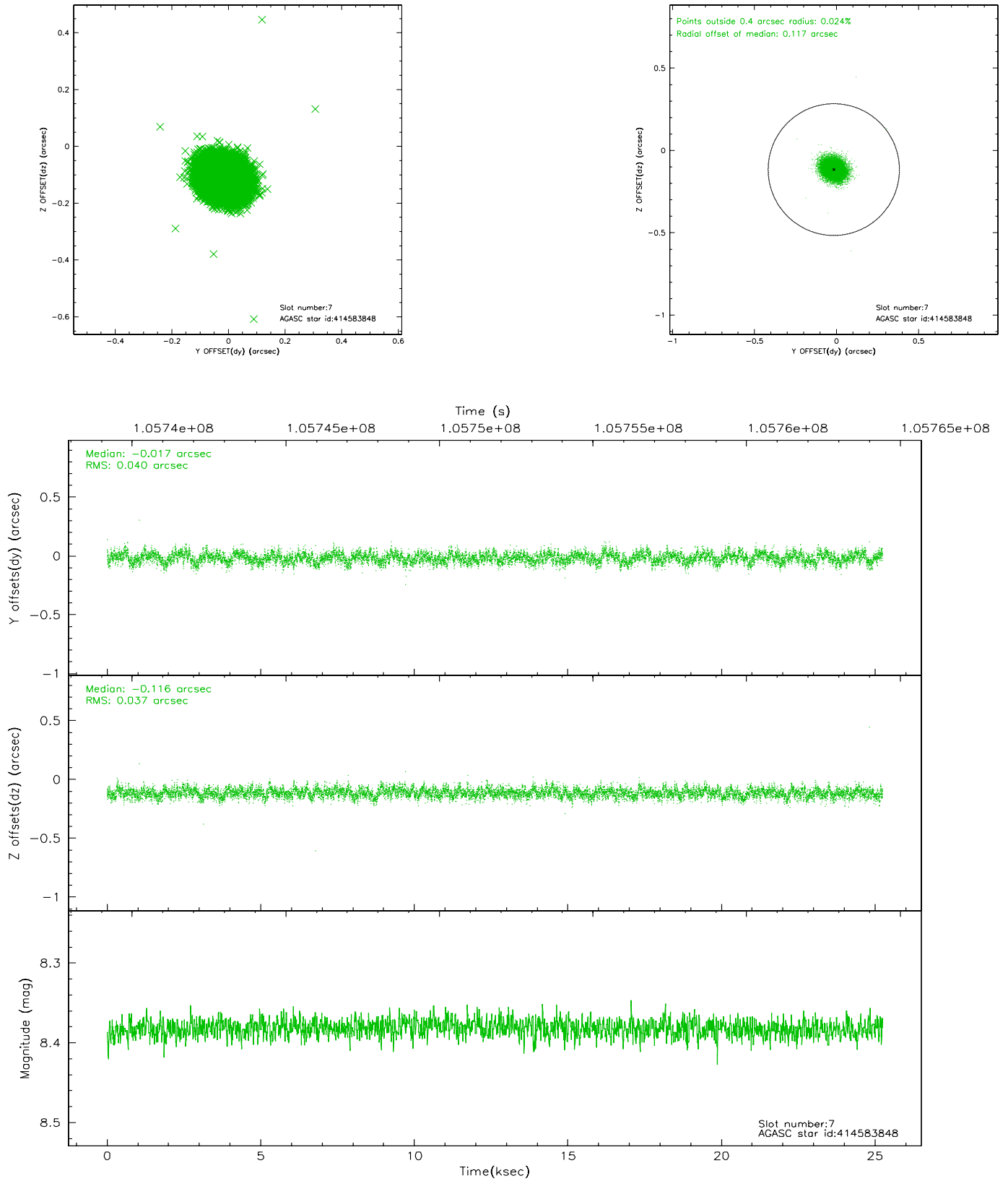
2.4.3 Slot 5



2.4.4 Slot 6

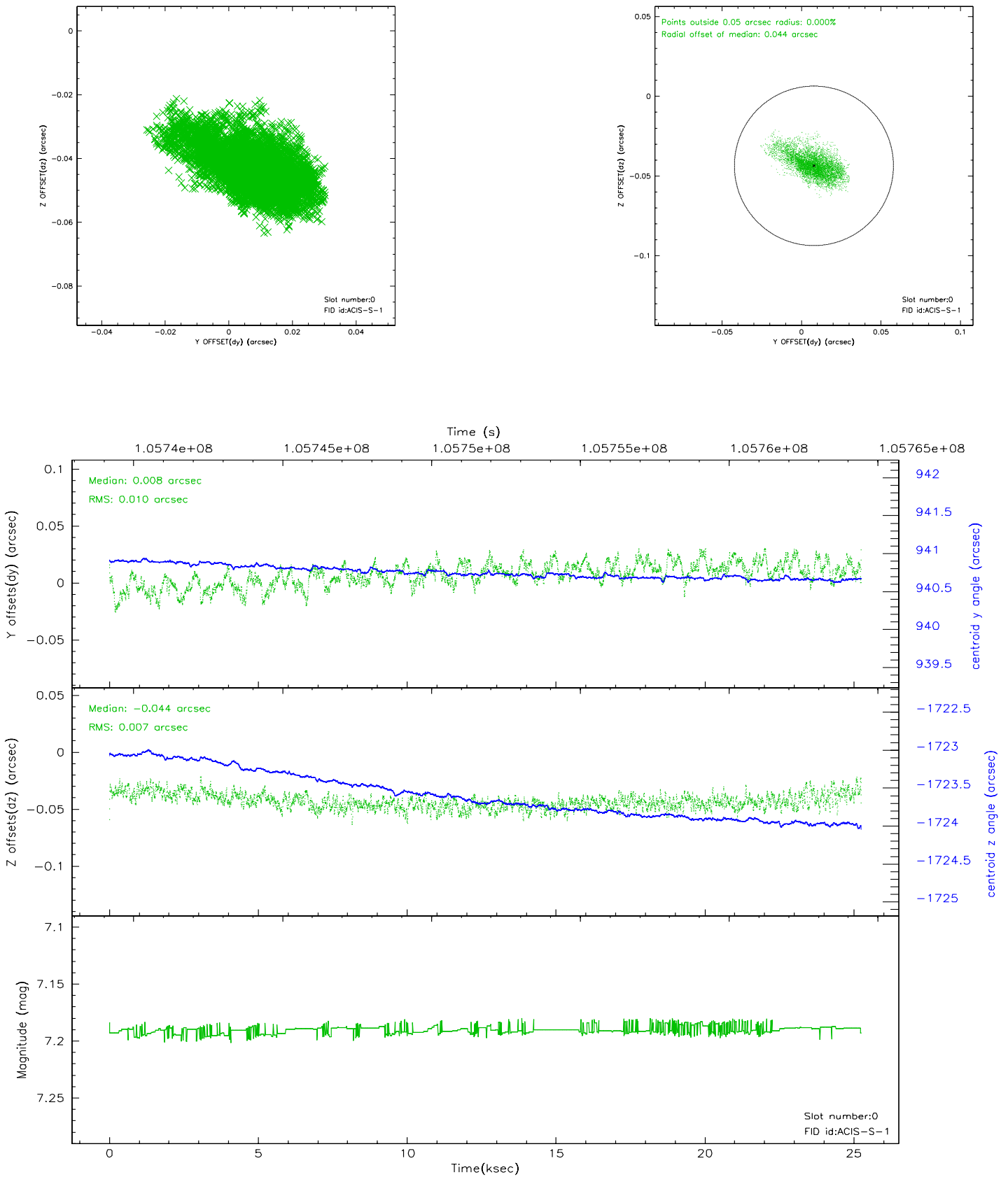


2.4.5 Slot 7

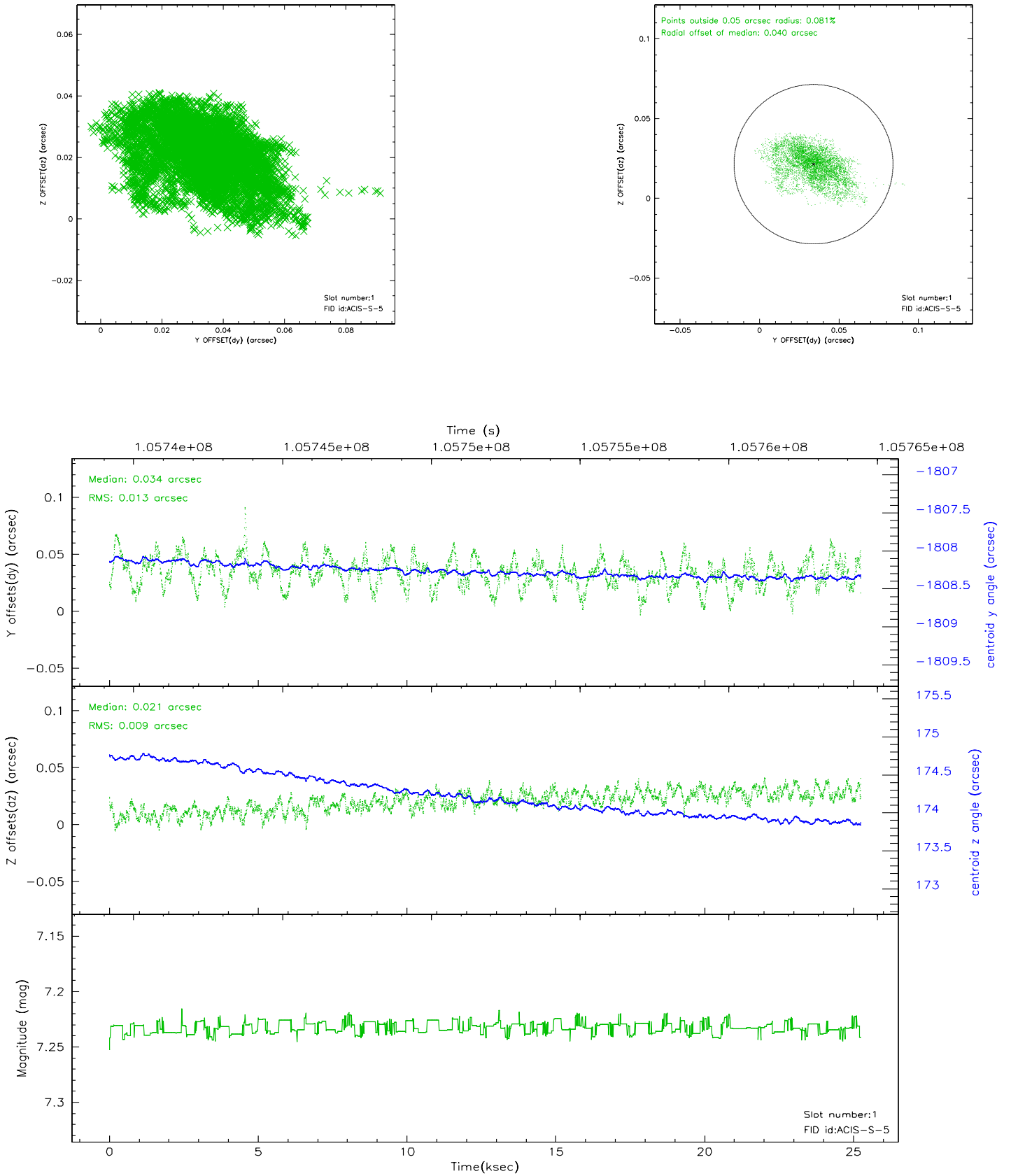


2.5 FID Slots

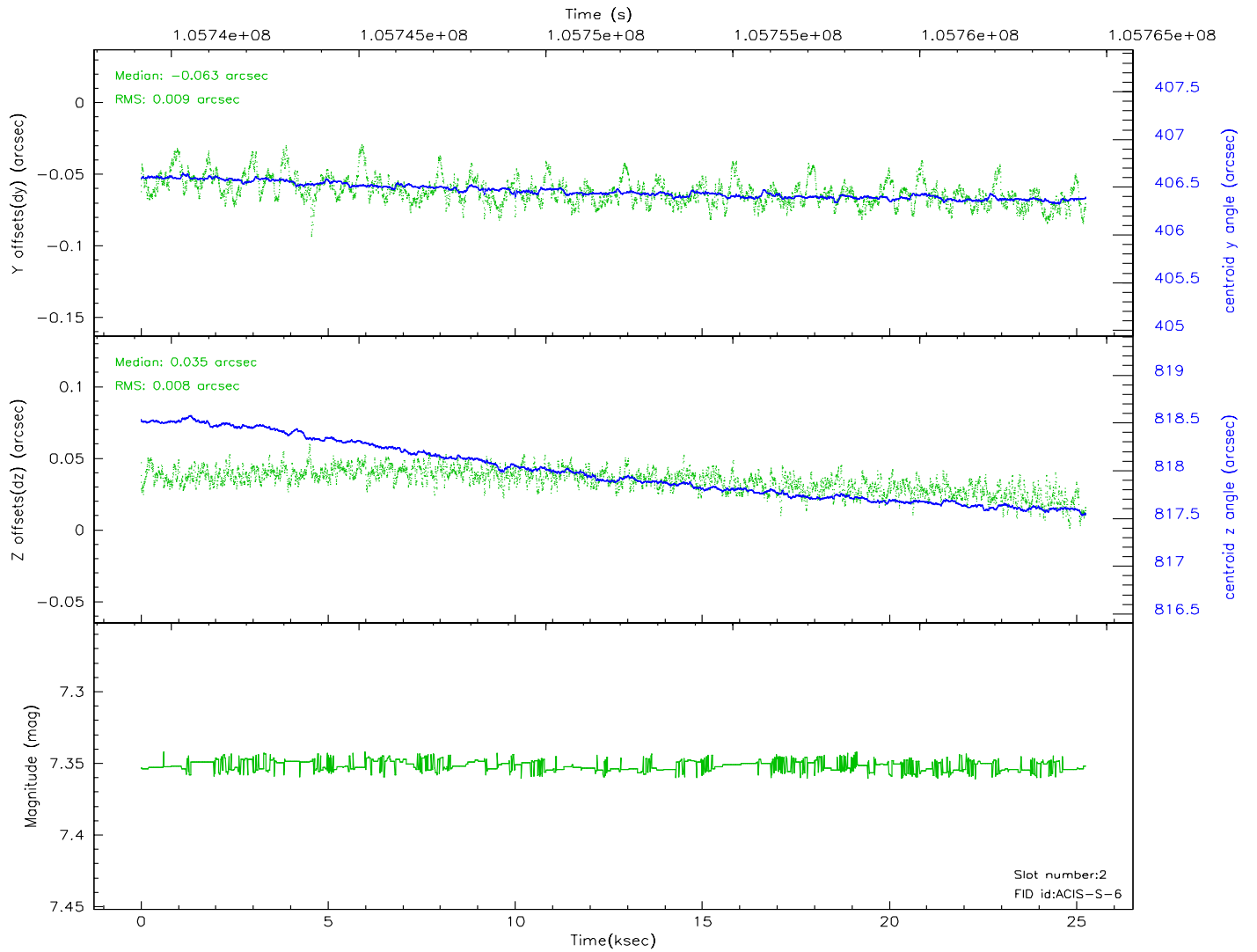
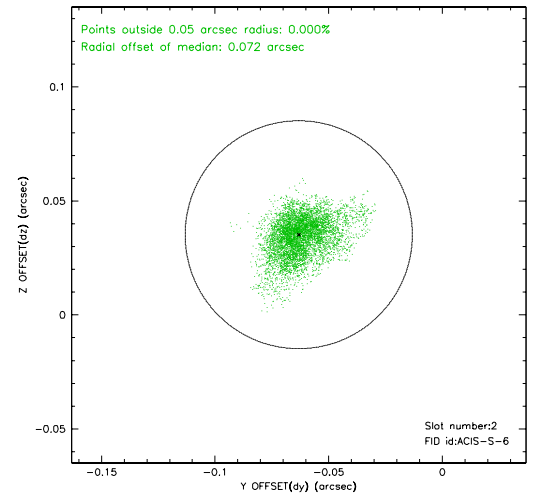
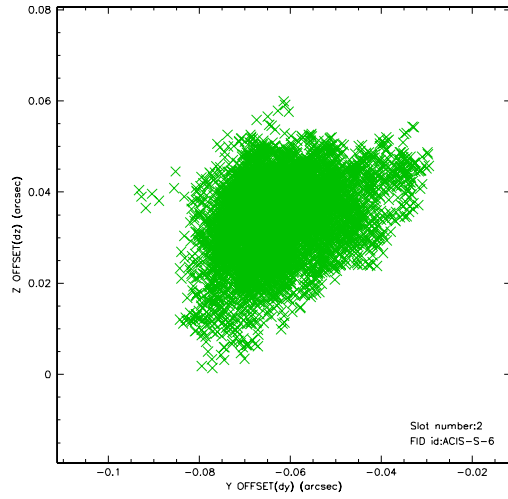
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2

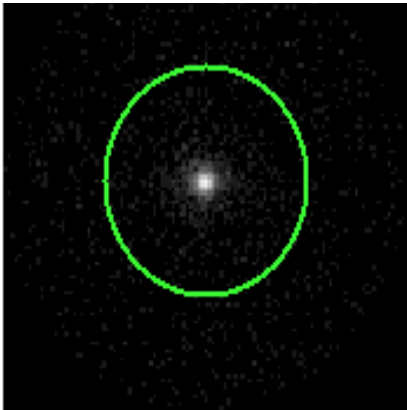


3 Gratings

3.1 HEG Arm



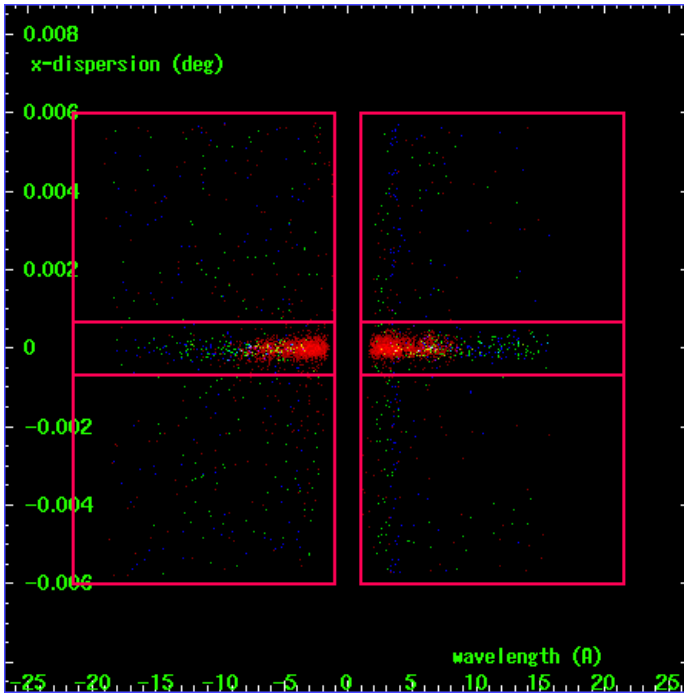
HEG Order Sort 123



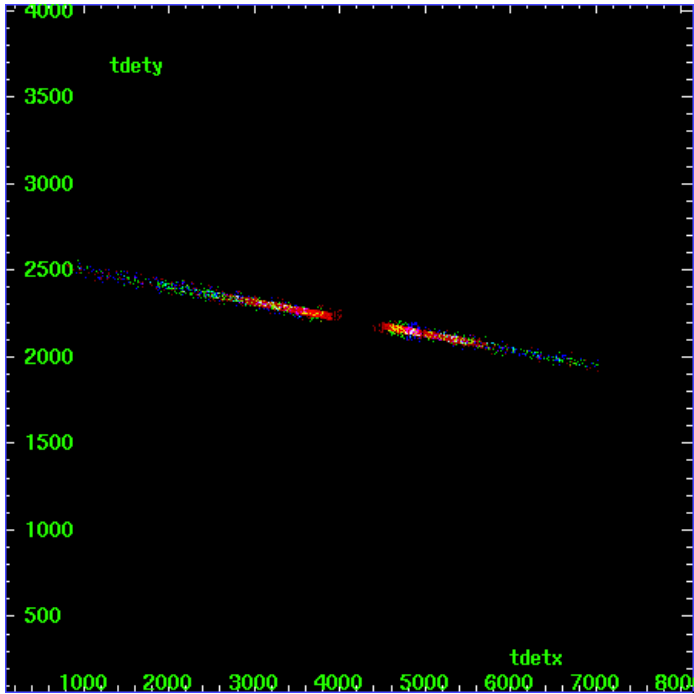
HEG Zero Order



HEG Order Sort ALL

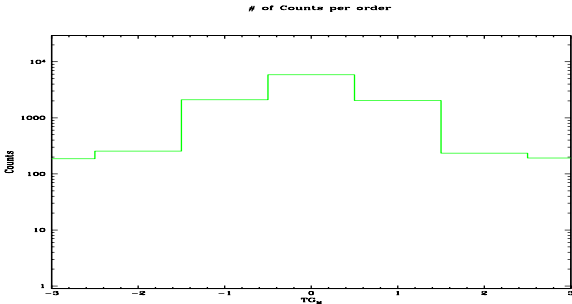


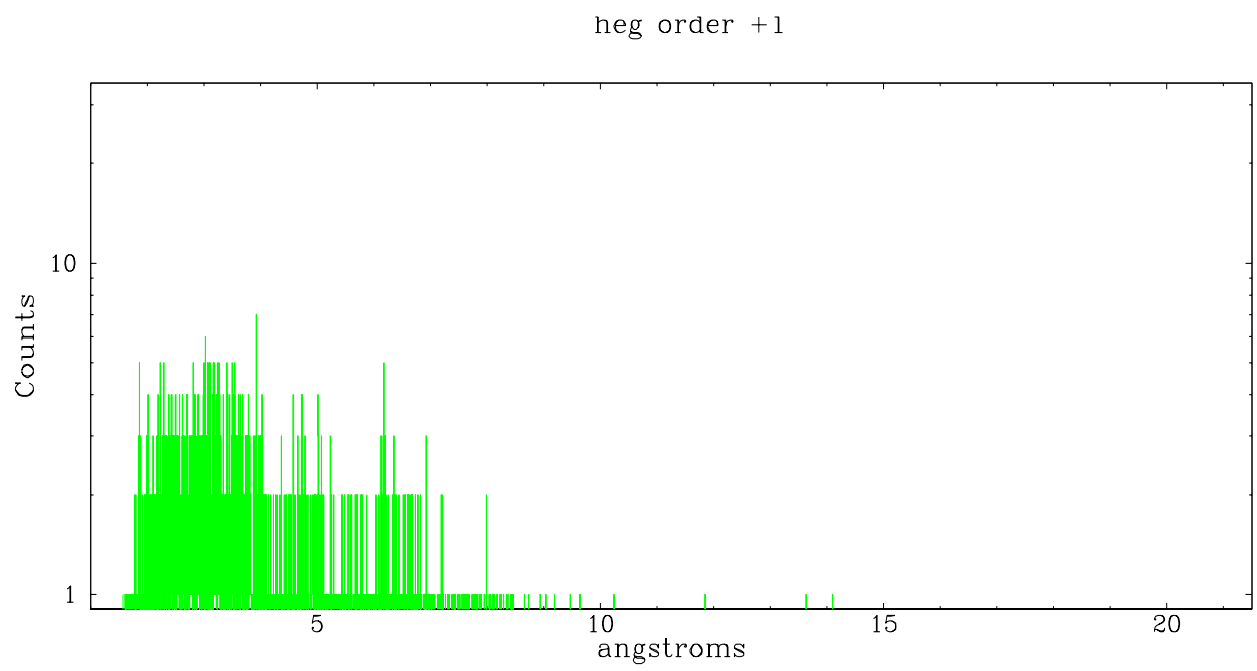
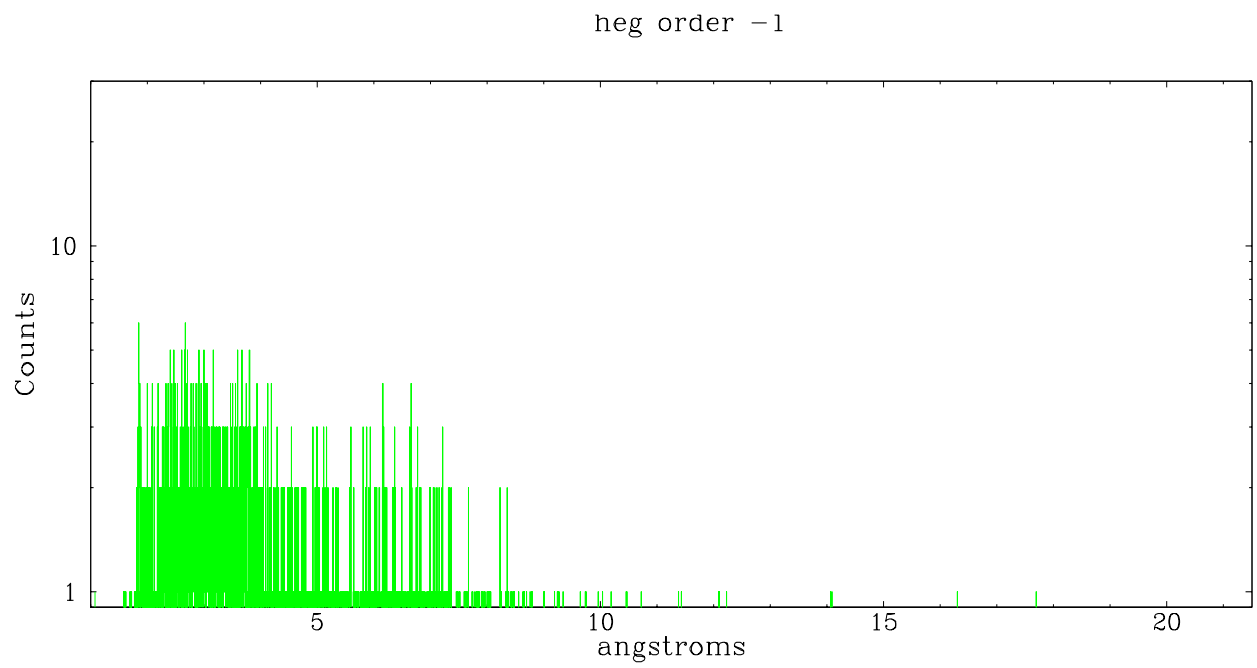
Spot Image HEG



Full Detector HEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	186	255	2102	5846	2030	235	192

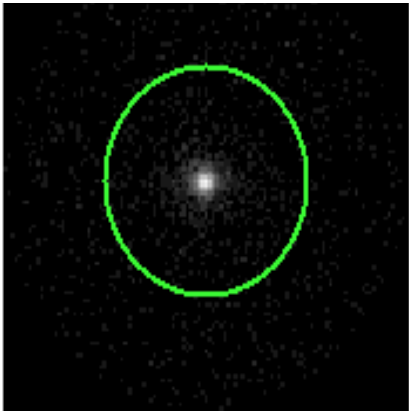




3.2 MEG Arm



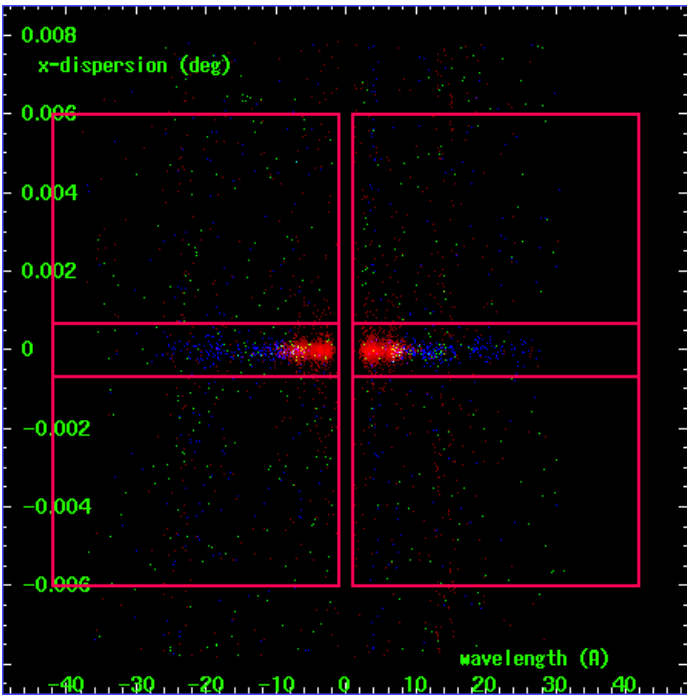
MEG Order Sort 123



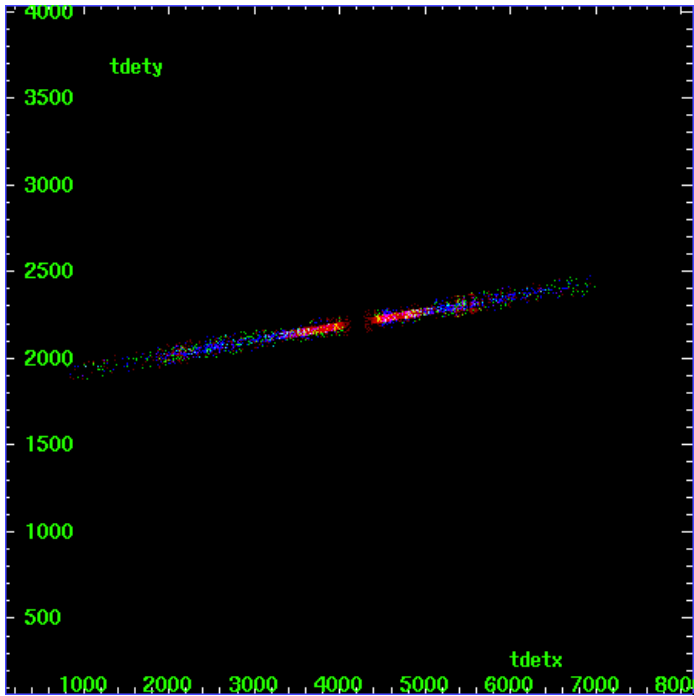
MEG Zero Order



MEG Order Sort ALL

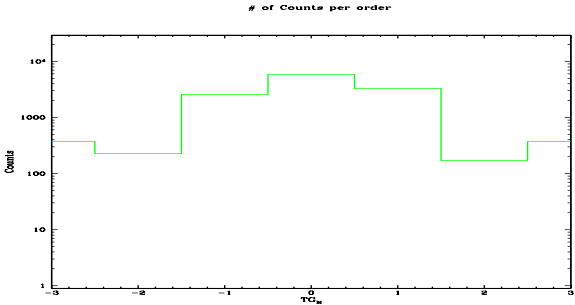


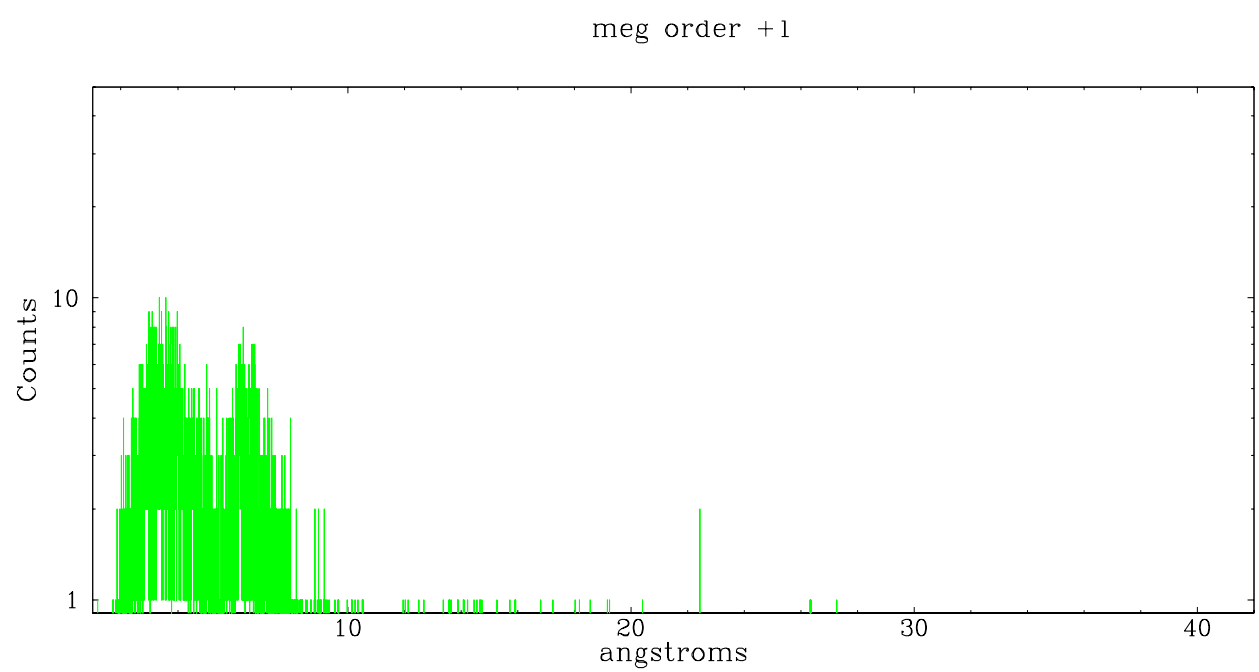
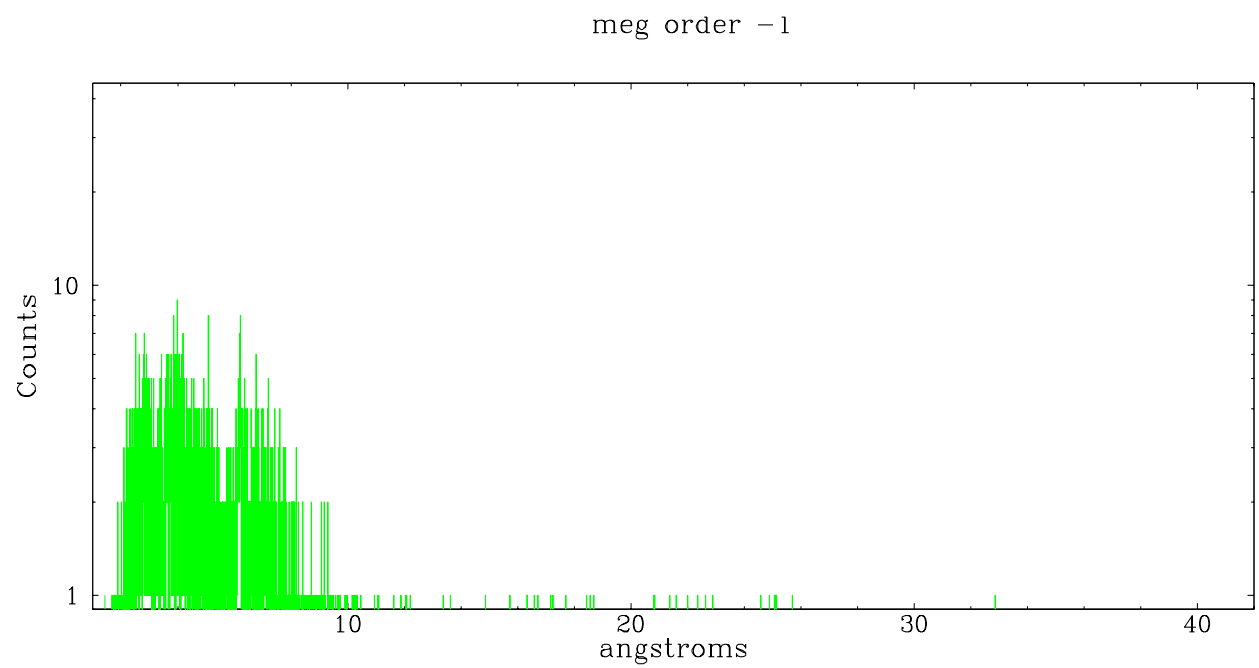
Spot Image MEG



Full Detector MEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	372	227	2583	5846	3307	171	371





A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2006.12.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	24.838

A.2 Comments

This is the second in a group of 2 observations. The first observation, obsid 2337, was taken when WR140 was presumably at its brightest and before absorption set in. This observation was intended to observe the system near periastron after absorption had set in. It is noted that the PI requested this observation be taken as near as possible, but after, March 1, 2001. The observation was actually taken May 8-9, 2001.