

V&V Reference Report

L2 ASCDS Version : 7.6.9

Observation 2527 - L2 Version 001
Chandra X-Ray Center

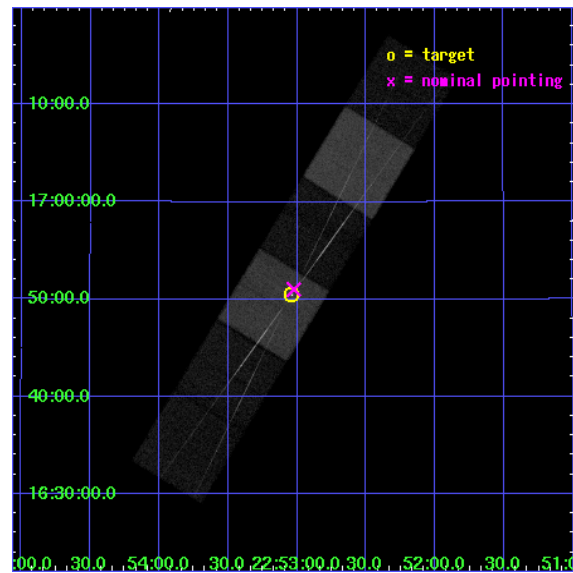
L2 Processing Date : Sep 21 2006

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1 Front

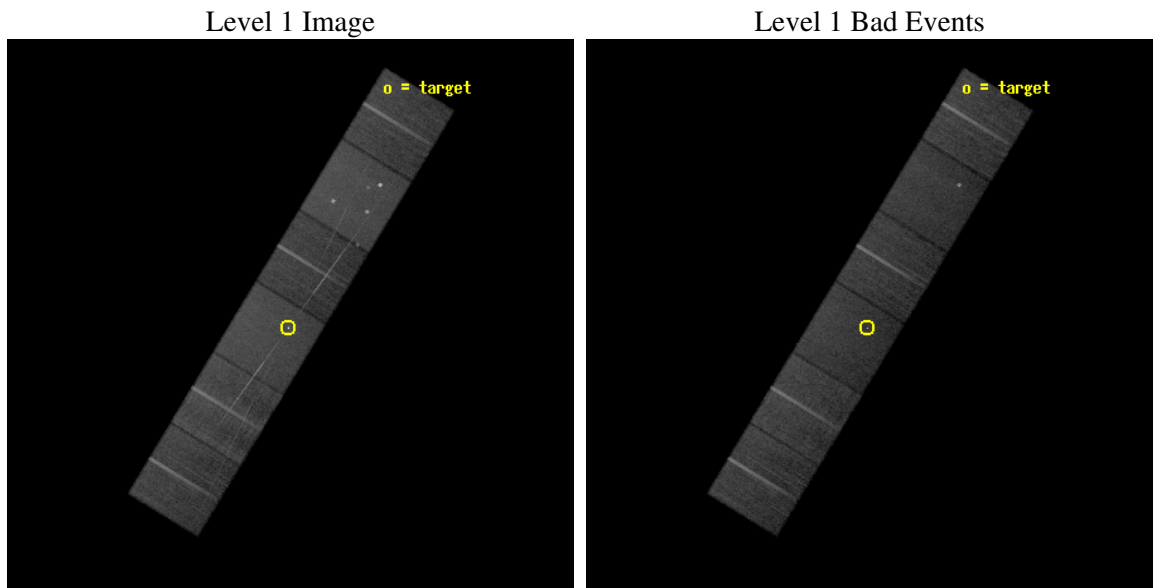
seq_num	200135
obs_id	2527
title	HETGS SPECTROSCOPY OF THE LONG-PERIOD ACTIVE BINARY, IM PEGASI.
observer	Dr. David Huenemoerder
object	IM PEG
dtcycle	0
cycle	P
ra_targ	343.259583
dec_targ	16.841194
ra_nom	343.25590327874
dec_nom	16.850233485844
roll_nom	121.40711777231
revision	2
ontime	24956.799907029
livetime	24640.781879425
ontime4	24956.799907029
ontime5	24956.799907029
ontime6	24956.799907029
ontime7	24956.799907029
ontime8	24953.558946788
ontime9	24956.799907029
l2events	273957



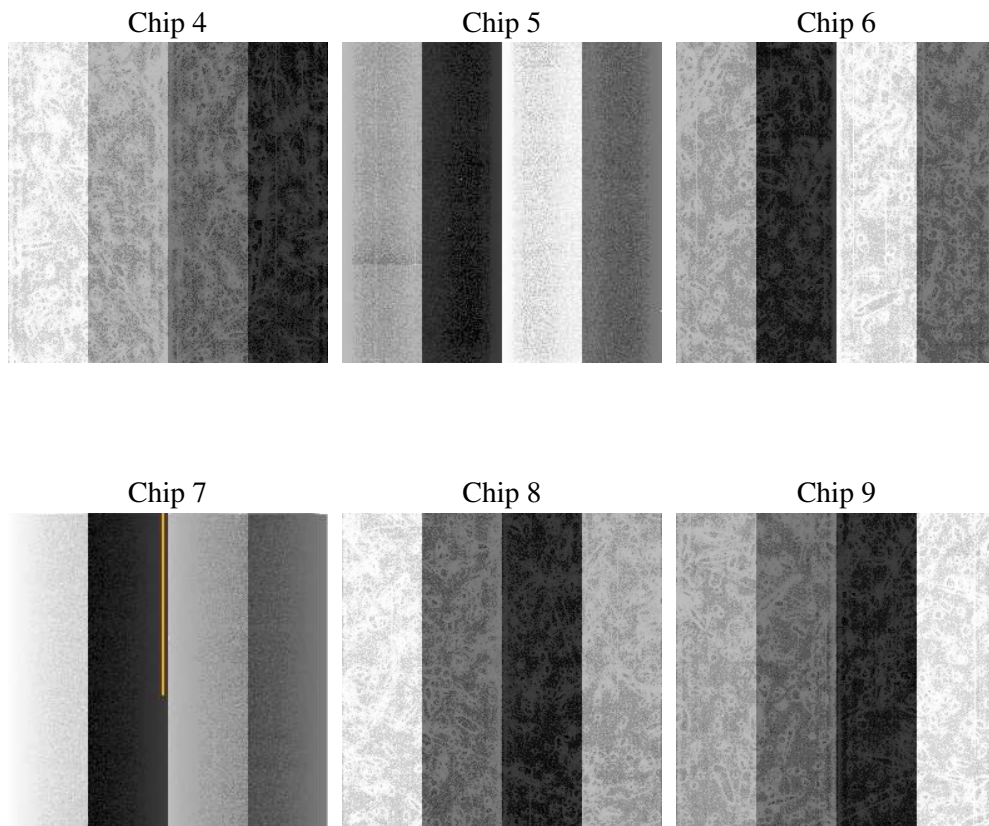
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0
ascdsver	7.6.9
caldsver	3.2.3
date	2006-09-21T07:50:11
revision	2

sched_exp_time	25000.000000
ontime	24962.186823696
ontime4	24962.186823696
ontime5	24962.186823696
ontime6	24962.186823696
ontime7	24962.186823696
ontime8	24958.945863456
ontime9	24962.186823696
l1events	1230914

2.1.4 Events

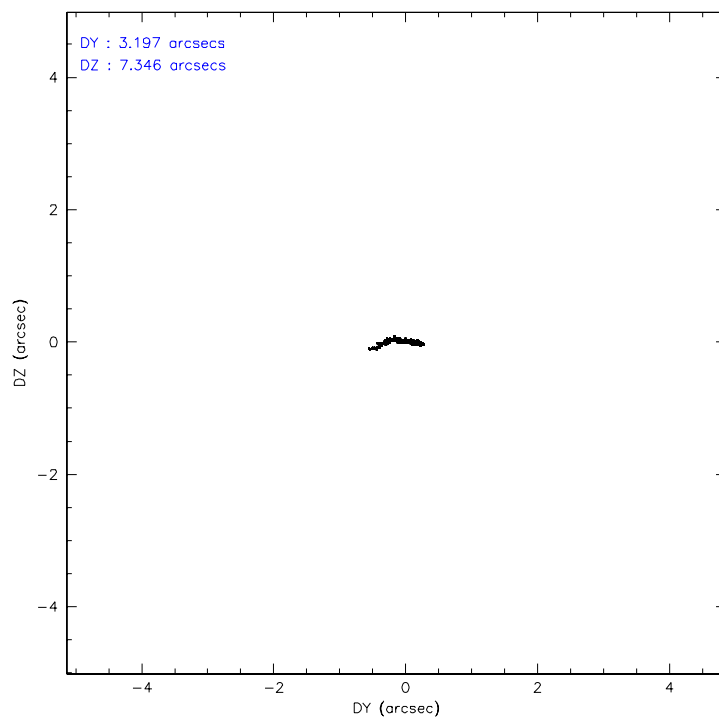
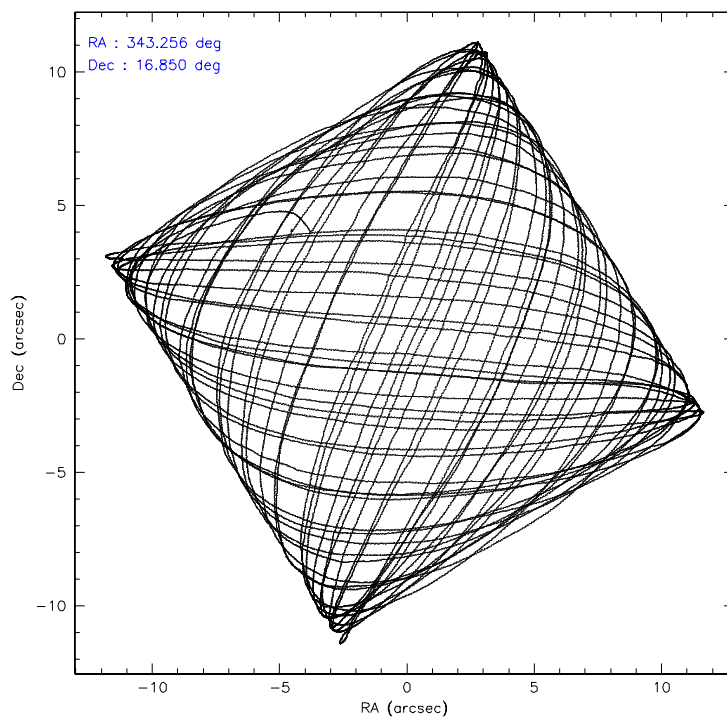
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	185271	250098	177113	229627	218118	170687
rejected events	164608	135602	150042	137088	170330	149878
rejected %	88%	54%	84%	59%	78%	87%

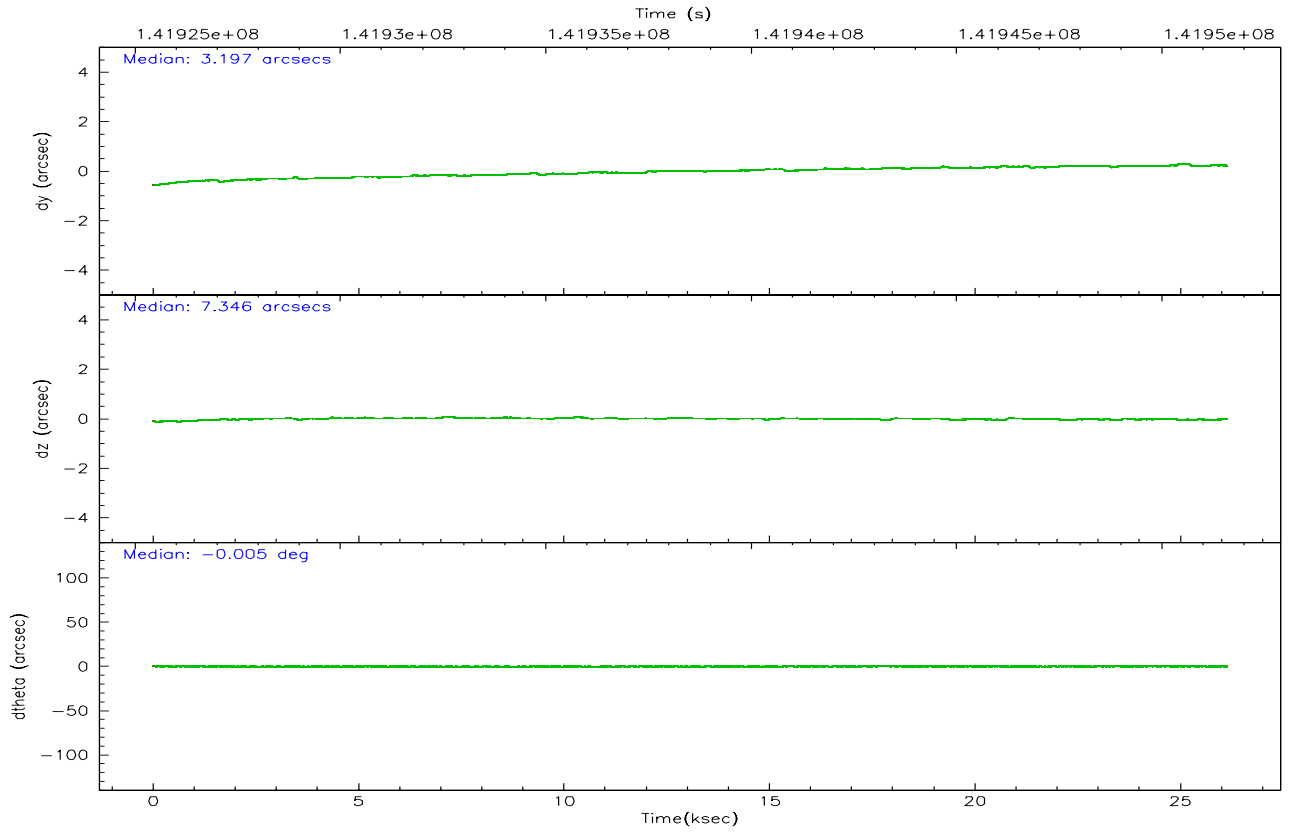
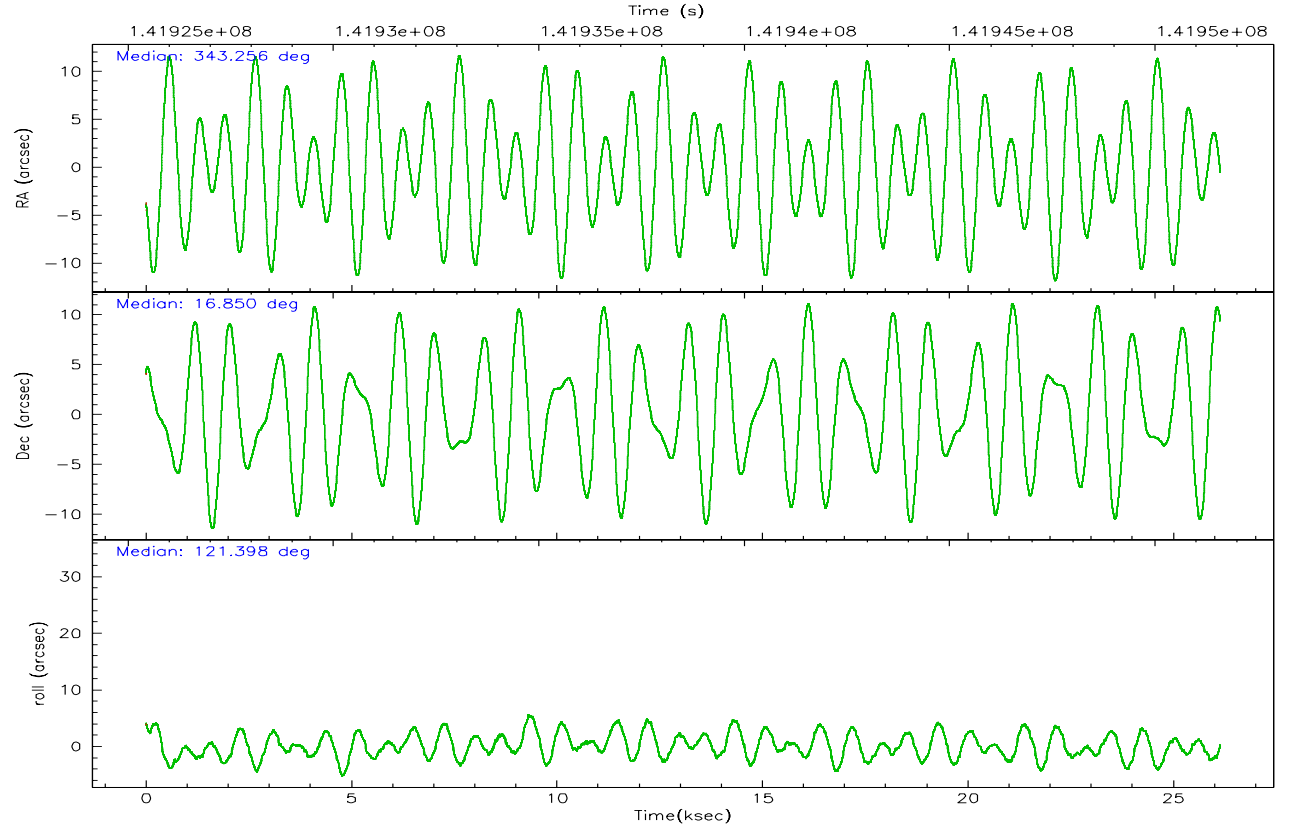
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	8383	15970	14047	6435	17949	8806
	4%	6%	7%	2%	8%	5%
grade 1 events	96	2045	110	282	139	93
	0%	0%	0%	0%	0%	0%
grade 2 events	4906	33211	4733	22885	9694	4251
	2%	13%	2%	9%	4%	2%
grade 3 events	1907	2614	2145	5211	4813	1955
	1%	1%	1%	2%	2%	1%
grade 4 events	1802	2495	2127	4978	4435	1878
	0%	0%	1%	2%	2%	1%
grade 5 events	6315	11735	7243	15456	9429	7601
	3%	4%	4%	6%	4%	4%
grade 6 events	3670	60233	4023	53054	10903	3928
	1%	24%	2%	23%	4%	2%
grade 7 events	158192	121795	142685	121326	160756	142175
	85%	48%	80%	52%	73%	83%

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	343.281077	343.2559032787367	Subarray requested	NONE	NONE
Pointing Dec	16.837487	16.85023348584388	Alternating exposures requested	N	N
Pointing Roll	121.243192	121.4071177723081	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)	-187.132523	-187.1228876879999			
SIM translation stage offset (mm)	-3	-3.009634895007935			
Observation start time	141926580.184000	141925148.51128			
Observation start date	2002-07-01T16:01:56	2002-07-01T15:39:08			
Observation end time	141951580.184000	141952469.8874			
Observation end date	2002-07-01T22:58:36	2002-07-01T23:14:29			
Read mode	TIMED	TIMED			

2.3 Aspect



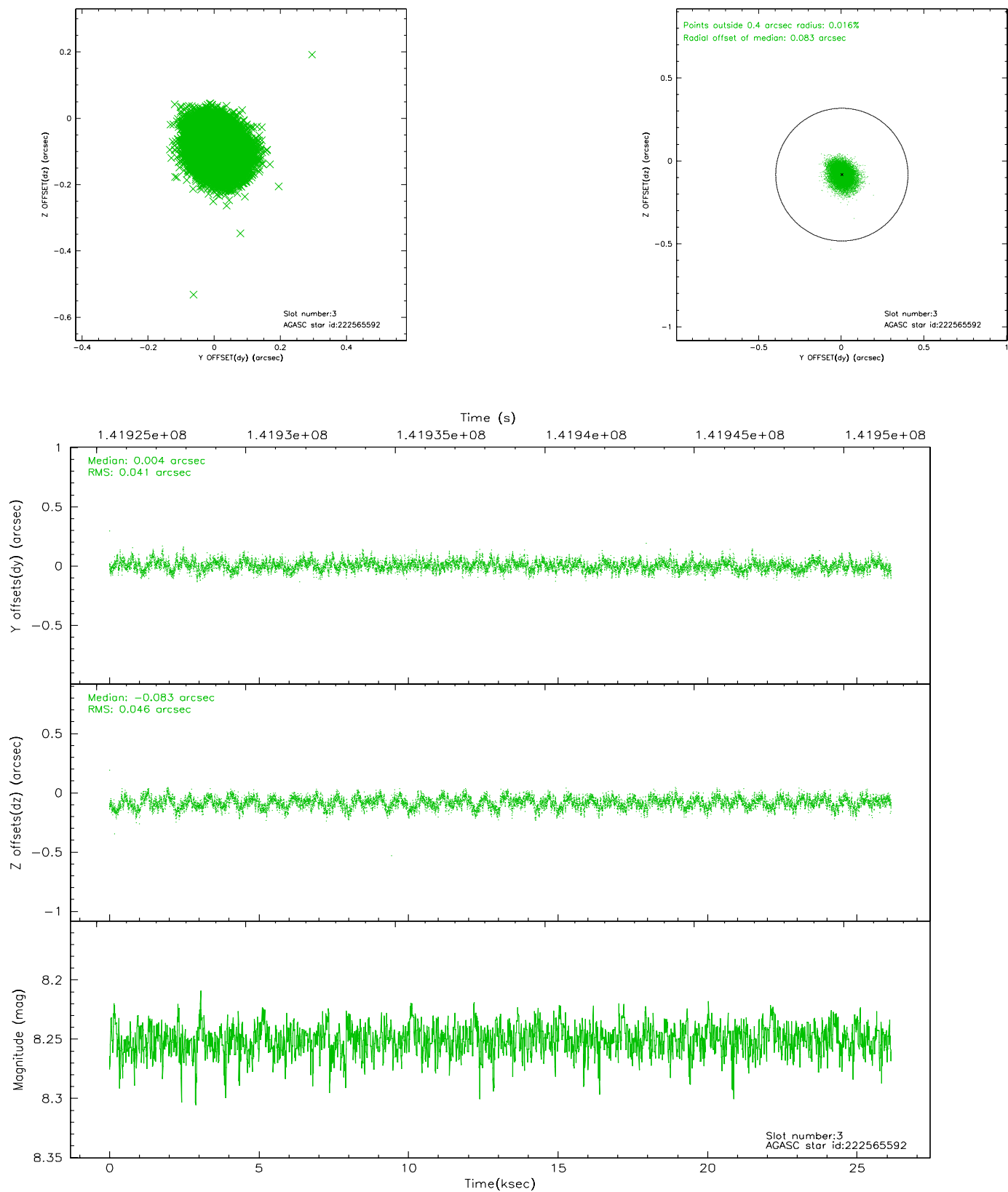


Slot Statistics

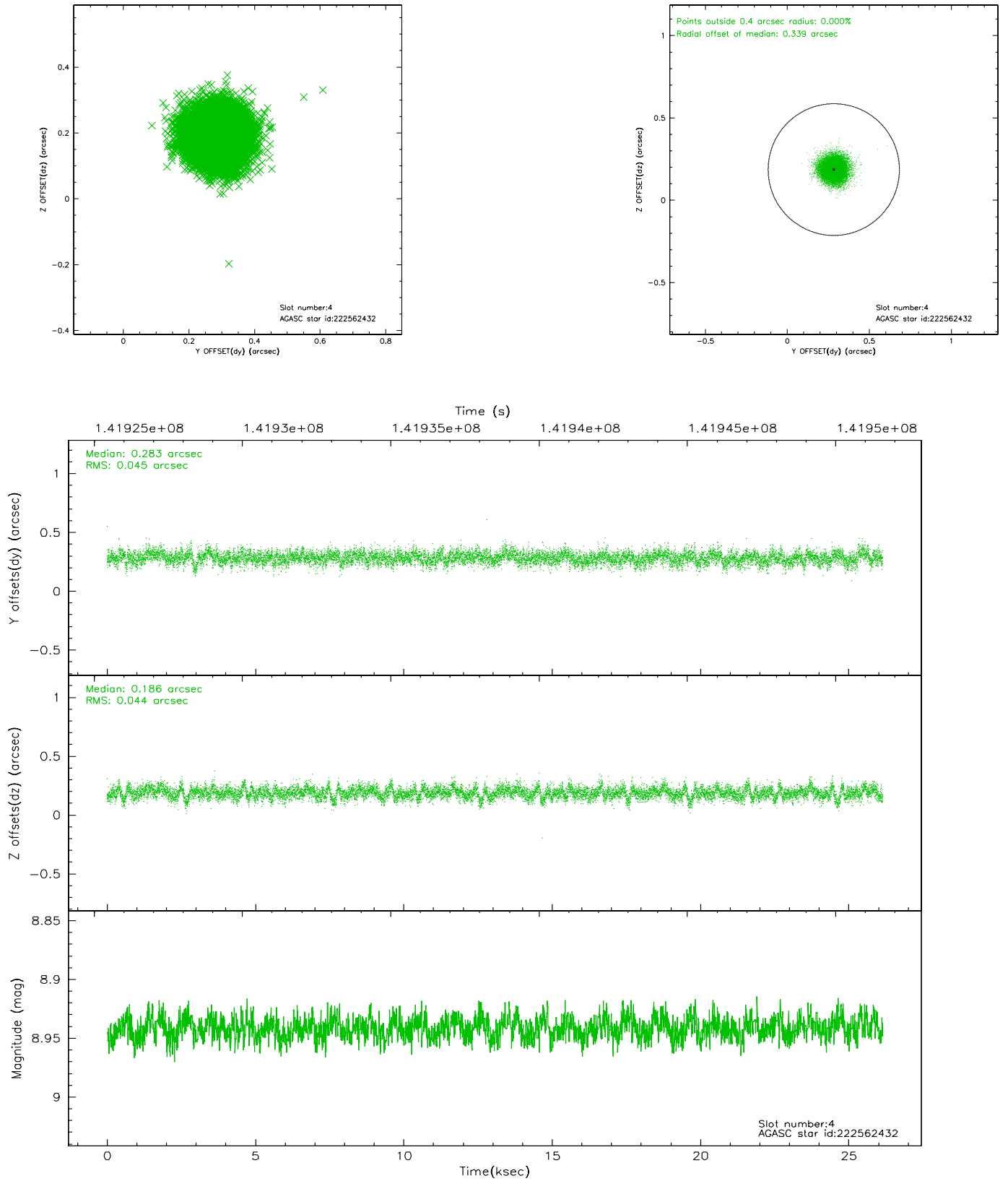
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	6375	-0.042	-0.015	0.008	0.015	0.000000	0.000000	-755.61	-1790.68
1	FID	ACIS-S-4	7.20	6374	-0.016	0.024	0.013	0.024	0.000000	0.000000	2157.61	117.76
2	FID	ACIS-S-5	7.23	6376	0.028	-0.000	0.011	0.019	0.000000	0.000000	-1808.28	111.46
3	GUIDE	222565592	8.25	12715	0.004	-0.083	0.066	0.106	343.291662	16.508291	-1031.19	584.53
4	GUIDE	222562432	8.94	12747	0.283	0.186	0.066	0.108	343.698150	16.309399	-2370.32	-245.87
5	GUIDE	222563736	8.82	12743	0.044	-0.193	0.080	0.127	343.076284	16.308502	-1260.23	1592.96
6	GUIDE	223089808	9.09	12685	-0.322	0.185	0.103	0.160	343.220223	17.508272	2173.70	-1072.46
7	GUIDE	222571232	9.55	12738	-0.012	-0.097	0.120	0.190	343.021766	16.540282	-449.02	1320.66

2.4 Star Slots

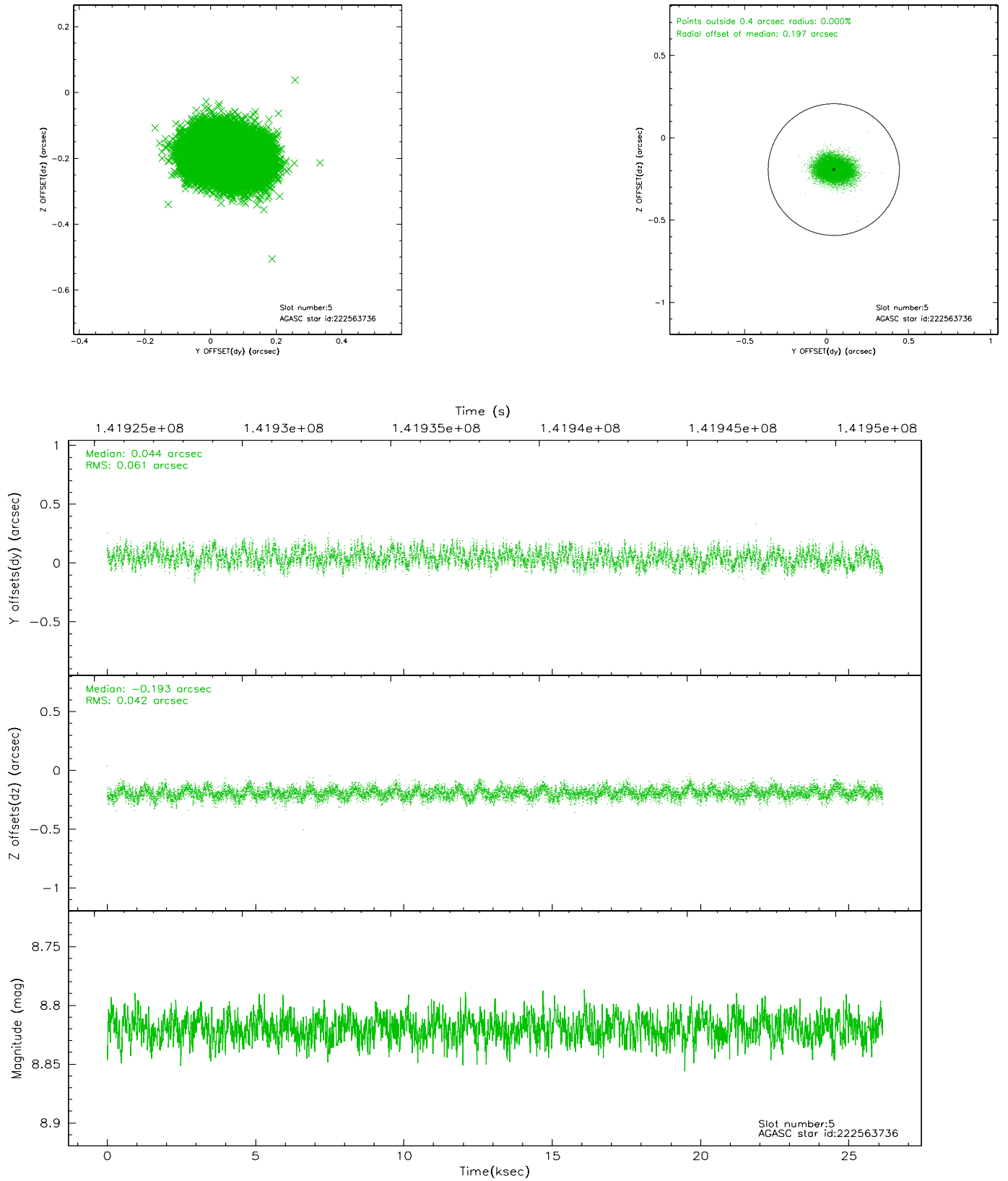
2.4.1 Slot 3



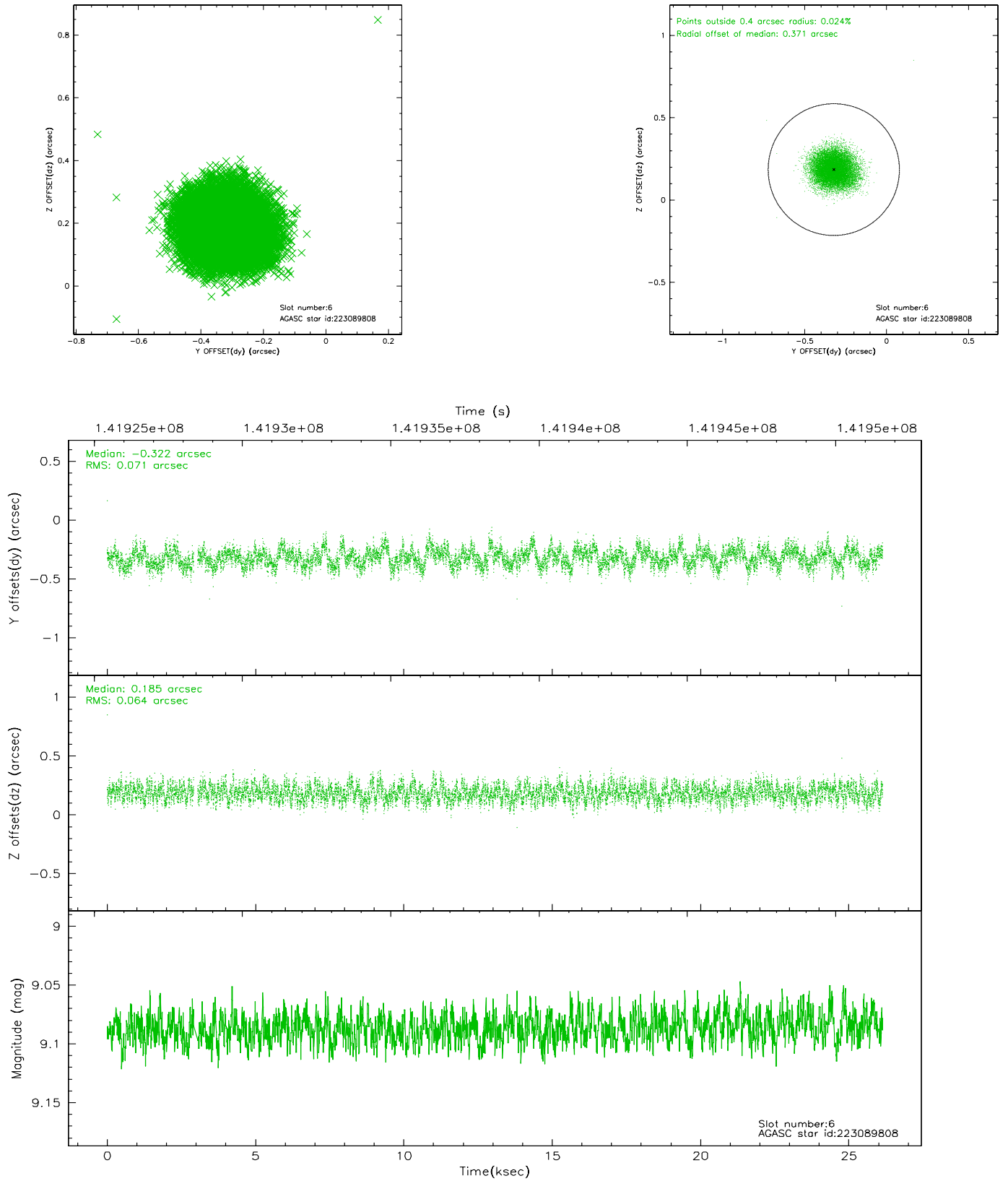
2.4.2 Slot 4



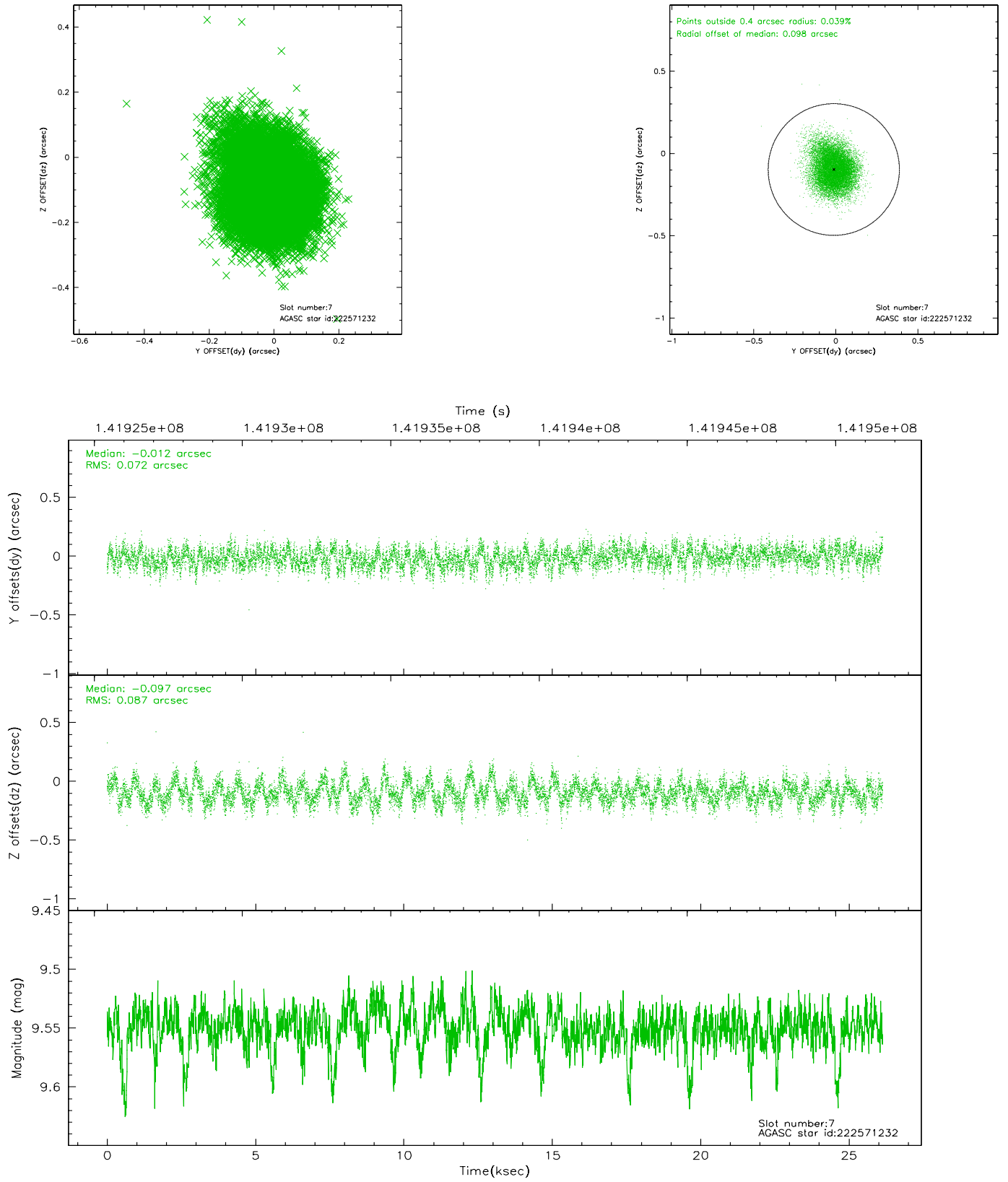
2.4.3 Slot 5



2.4.4 Slot 6

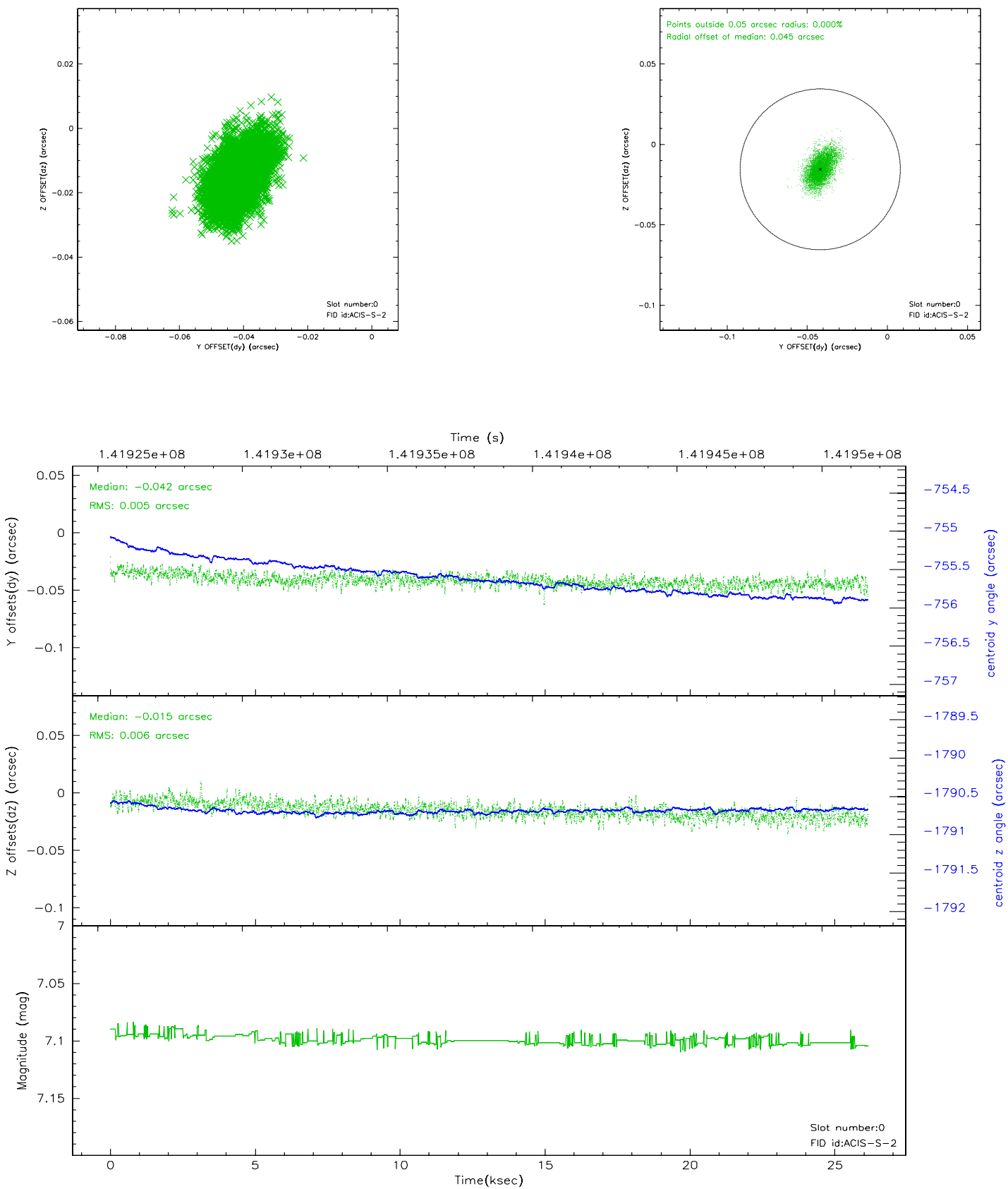


2.4.5 Slot 7

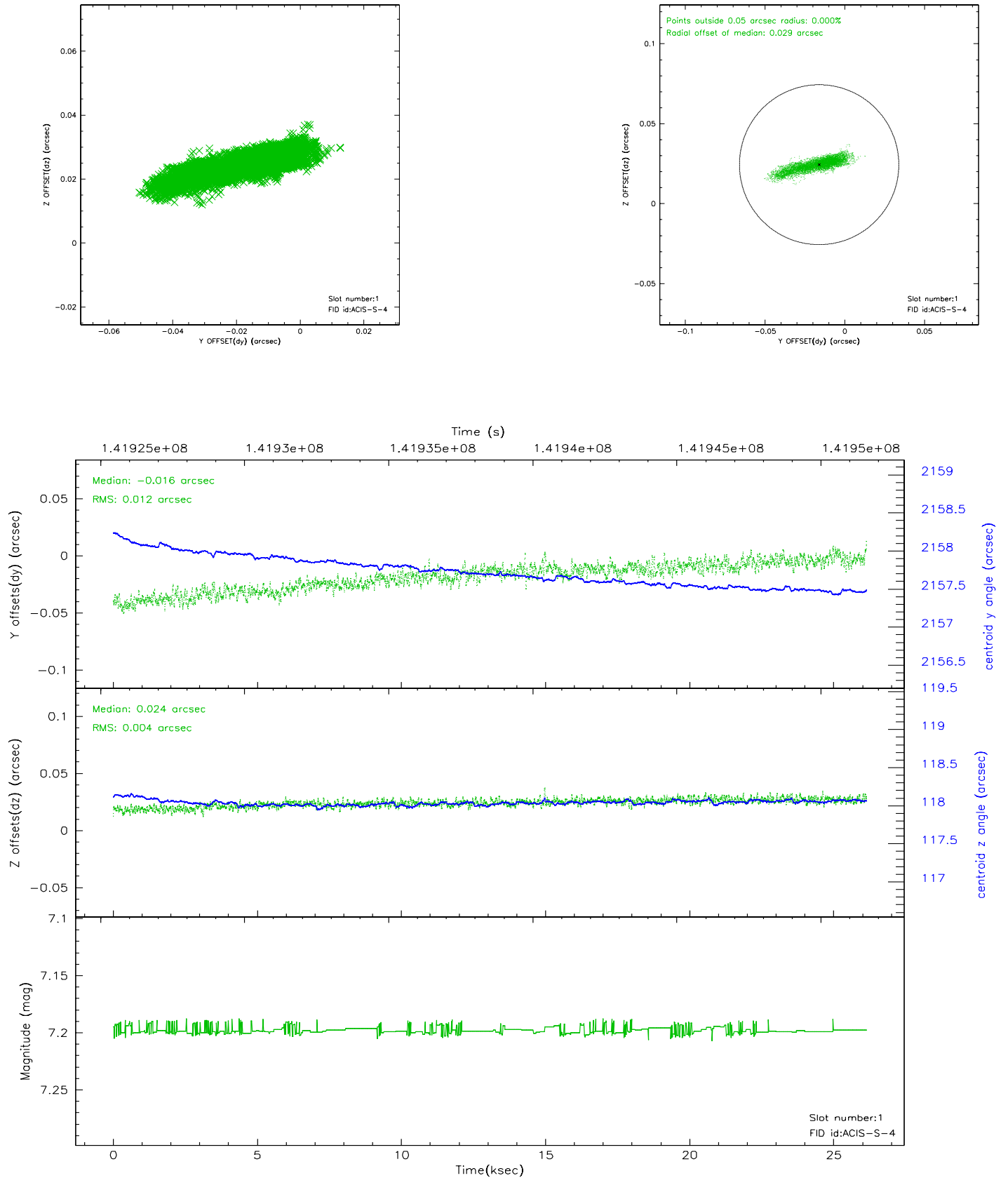


2.5 FID Slots

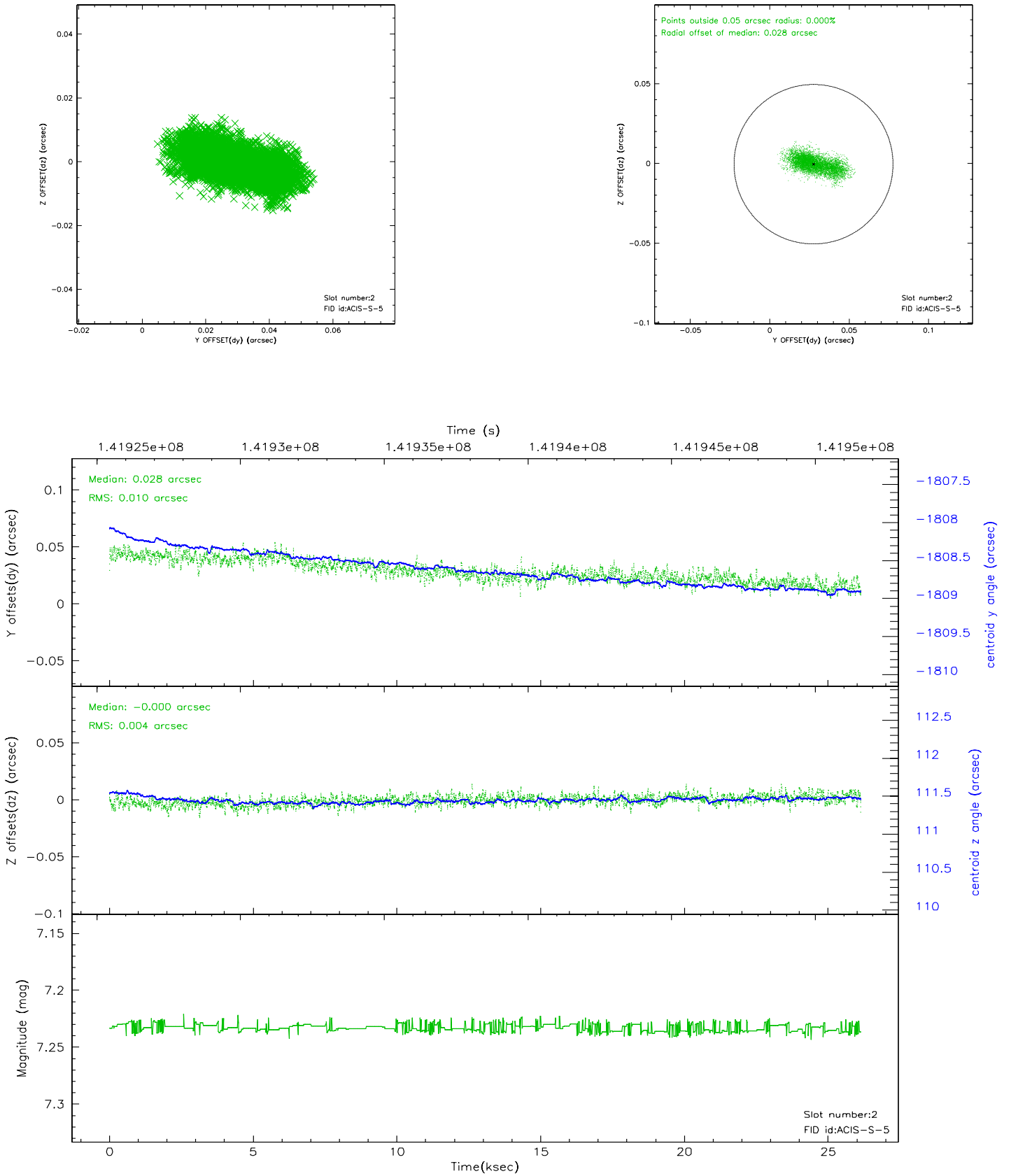
2.5.1 Slot 0



2.5.2 Slot 1

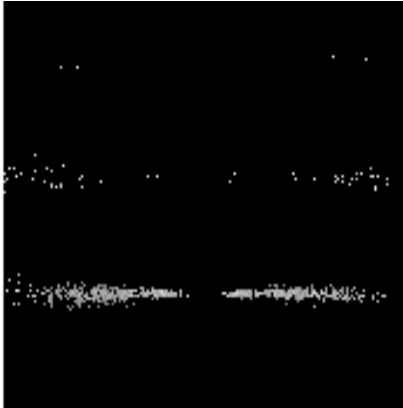


2.5.3 Slot 2

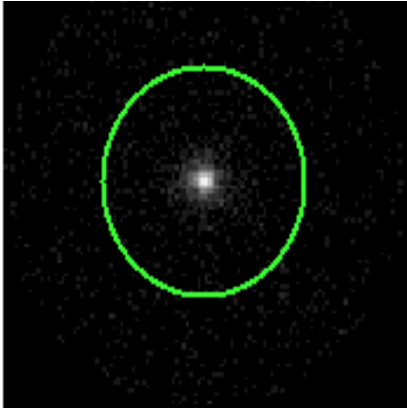


3 Gratings

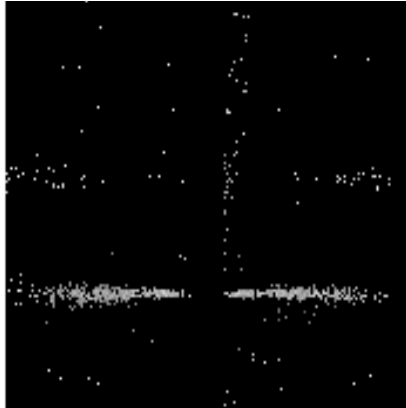
3.1 HEG Arm



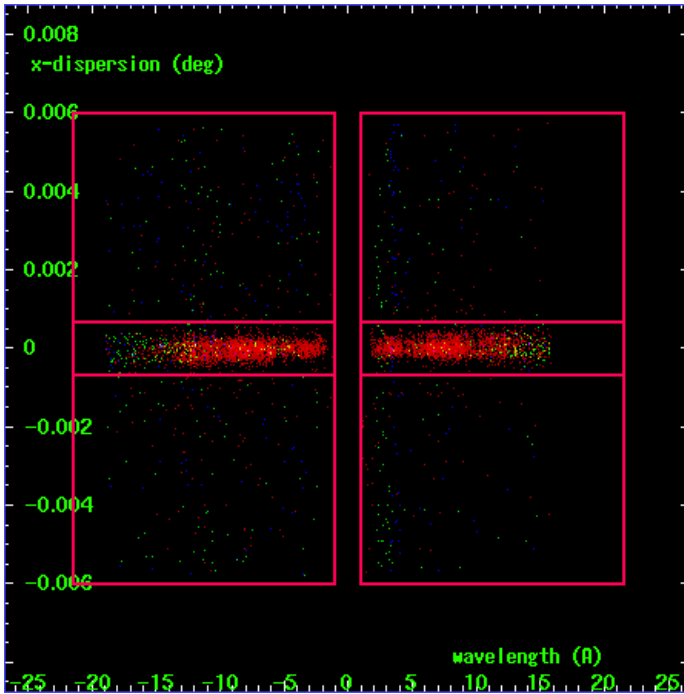
HEG Order Sort 123



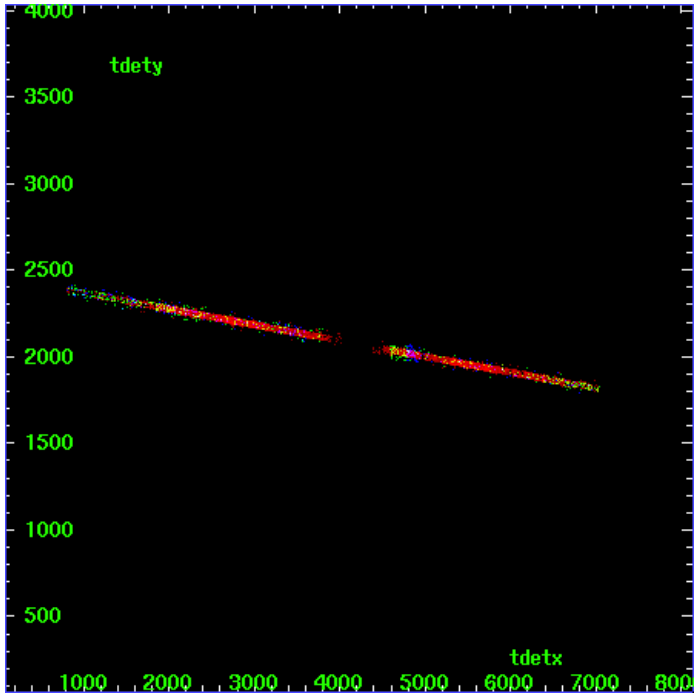
HEG Zero Order



HEG Order Sort ALL

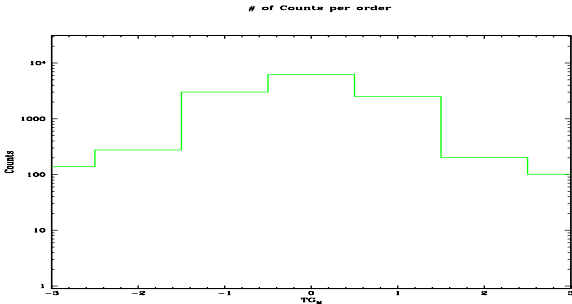


Spot Image HEG

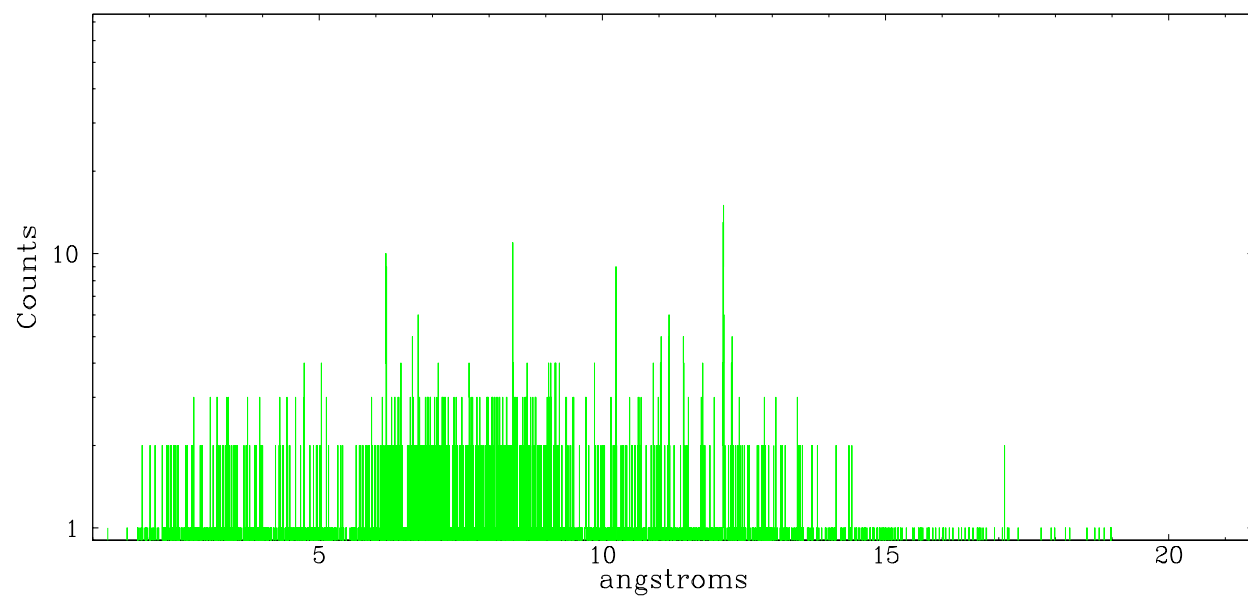


Full Detector HEG

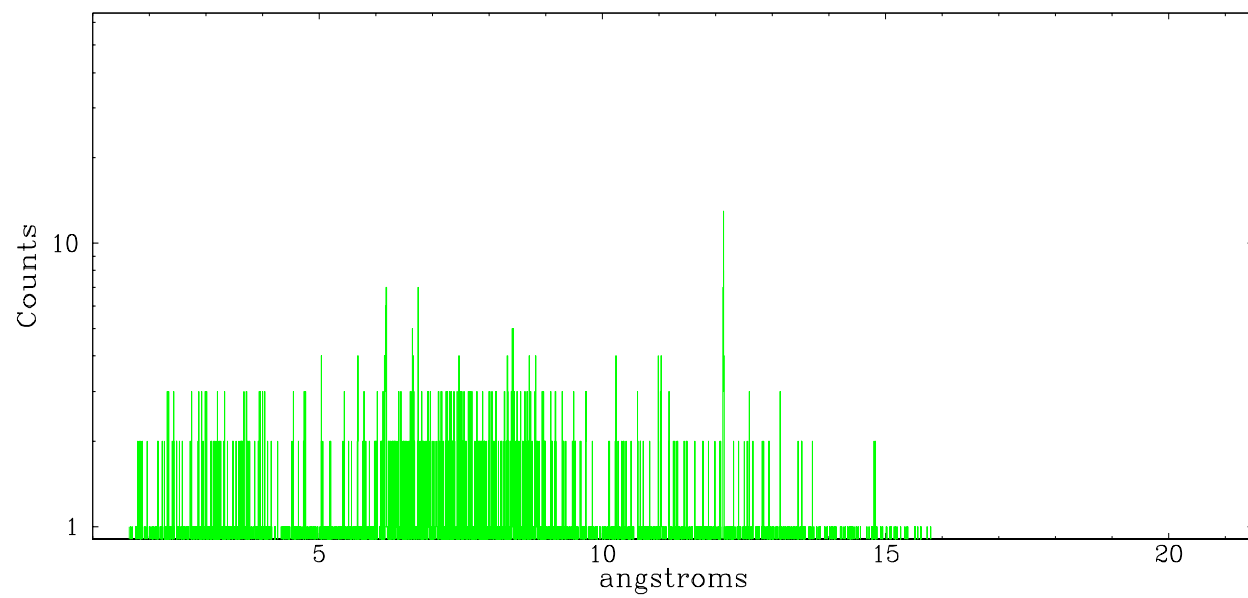
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	139	277	3018	6202	2531	202	101



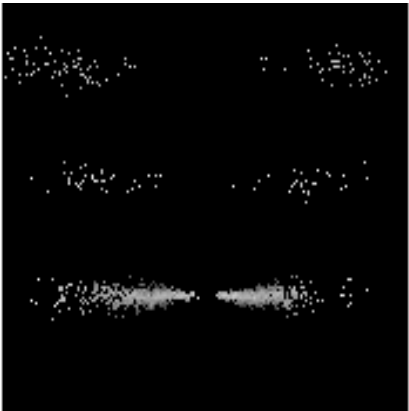
heg order -1



heg order +1



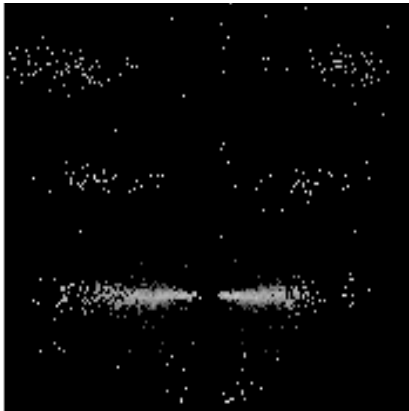
3.2 MEG Arm



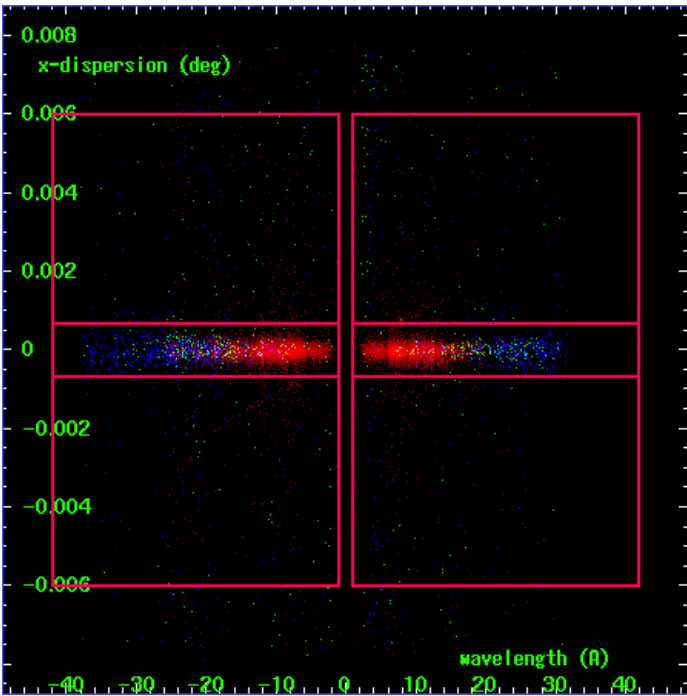
MEG Order Sort 123



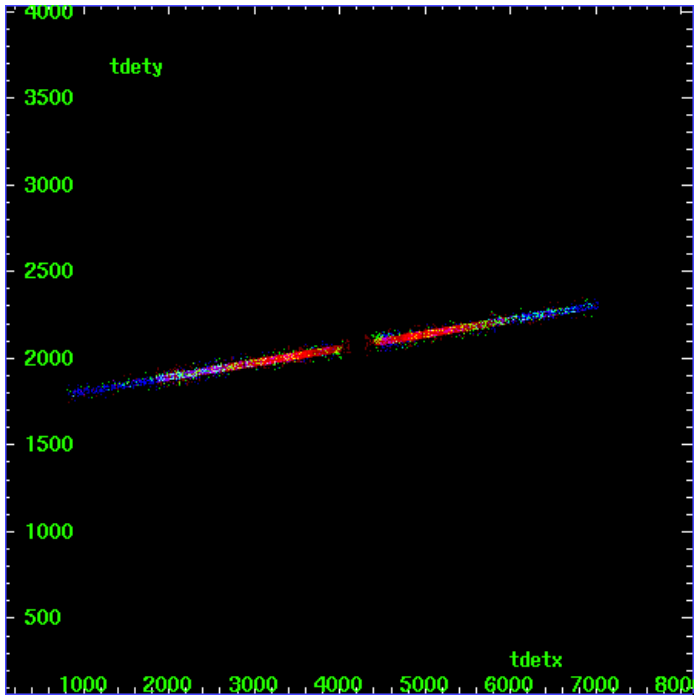
MEG Zero Order



MEG Order Sort ALL

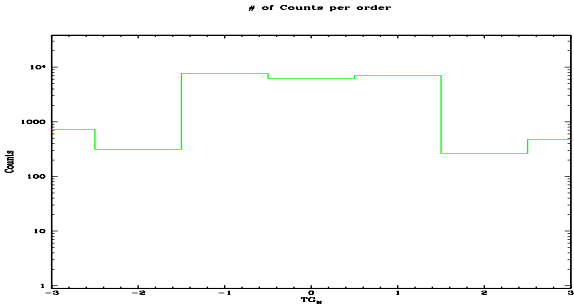


Spot Image MEG

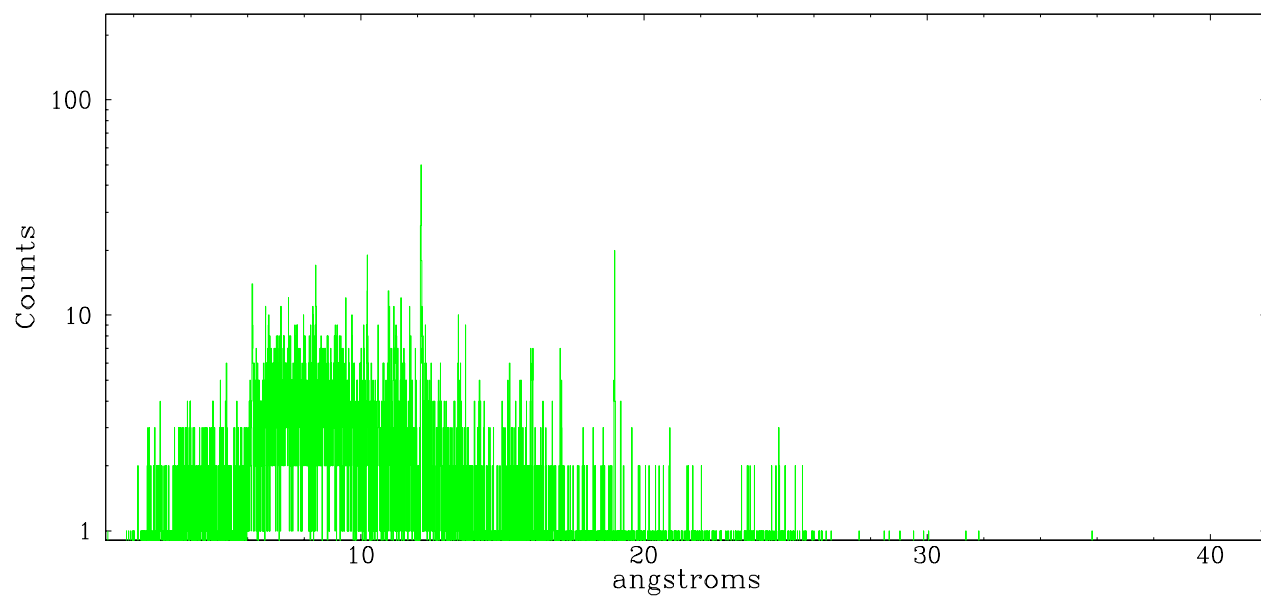


Full Detector MEG

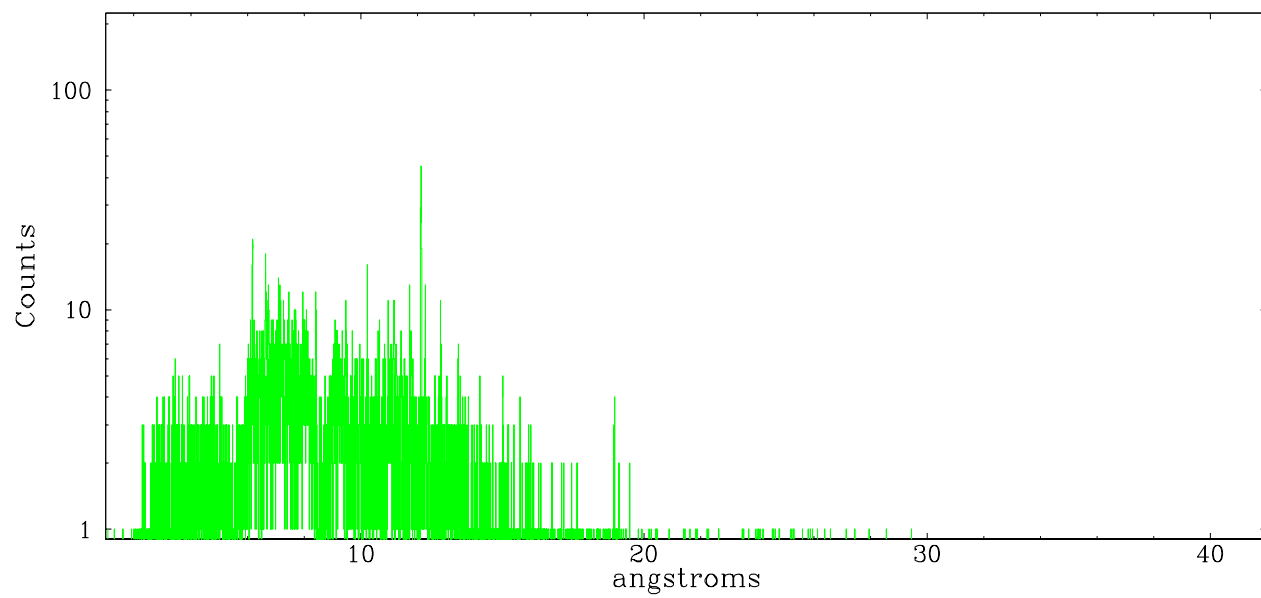
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	720	313	7664	6202	6963	264	473



meg order -1



meg order +1



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2006.09.22
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	24.959

A.2 Comments