

V&V Reference Report

L2 ASCDS Version : 7.6.9

Observation 2528 - L2 Version 001
Chandra X-Ray Center

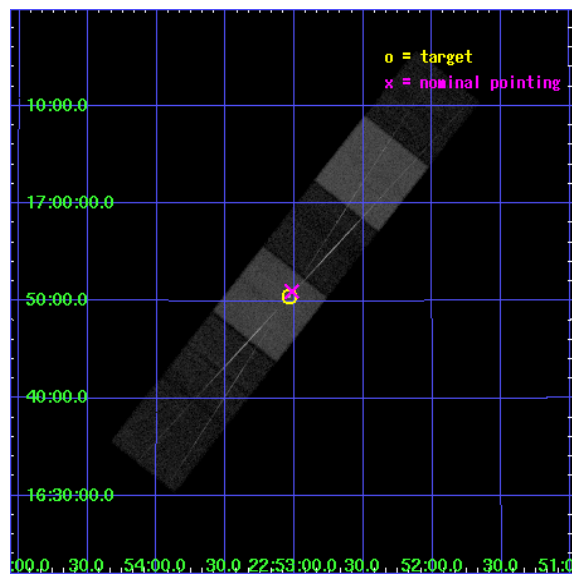
L2 Processing Date : Sep 22 2006

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1 Front

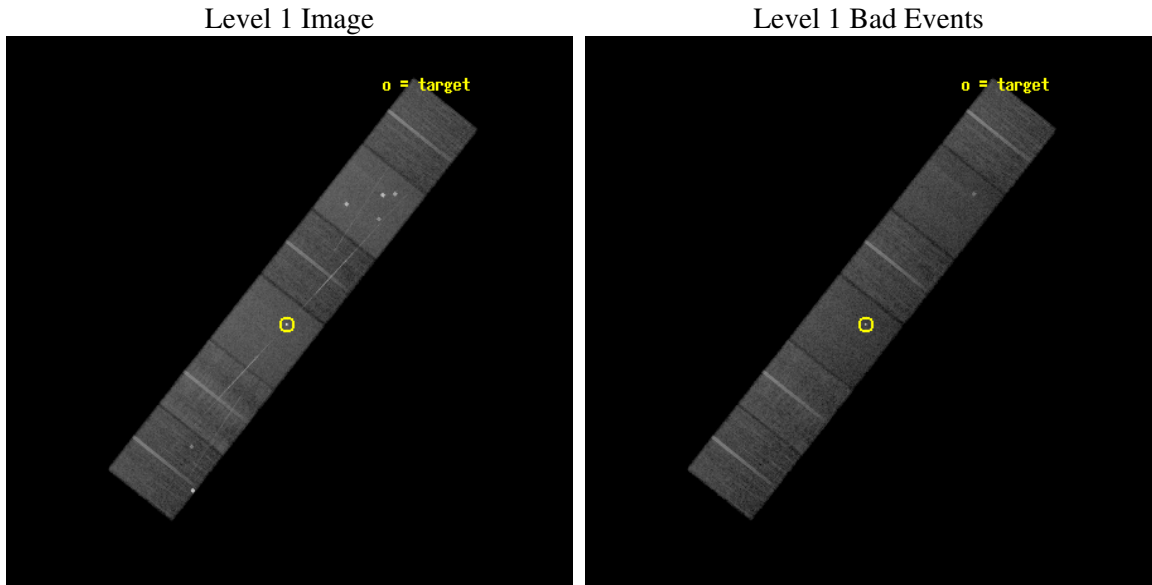
seq_num	200136
obs_id	2528
title	HETGS SPECTROSCOPY OF THE LONG-PERIOD ACTIVE BINARY, IM PEGASI.
observer	Dr. David Huenemoerder
object	IM PEG
dtcycle	0
cycle	P
ra_targ	343.259583
dec_targ	16.841194
ra_nom	343.25479535641
dec_nom	16.84974735339
roll_nom	128.35289271725
revision	2
ontime	25145.599906325
livetime	24827.191179449
ontime4	25142.358936071
ontime5	25145.599906325
ontime6	25145.599906325
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ontime8	25145.599906325
ontime9	25145.599906325
l2events	286450



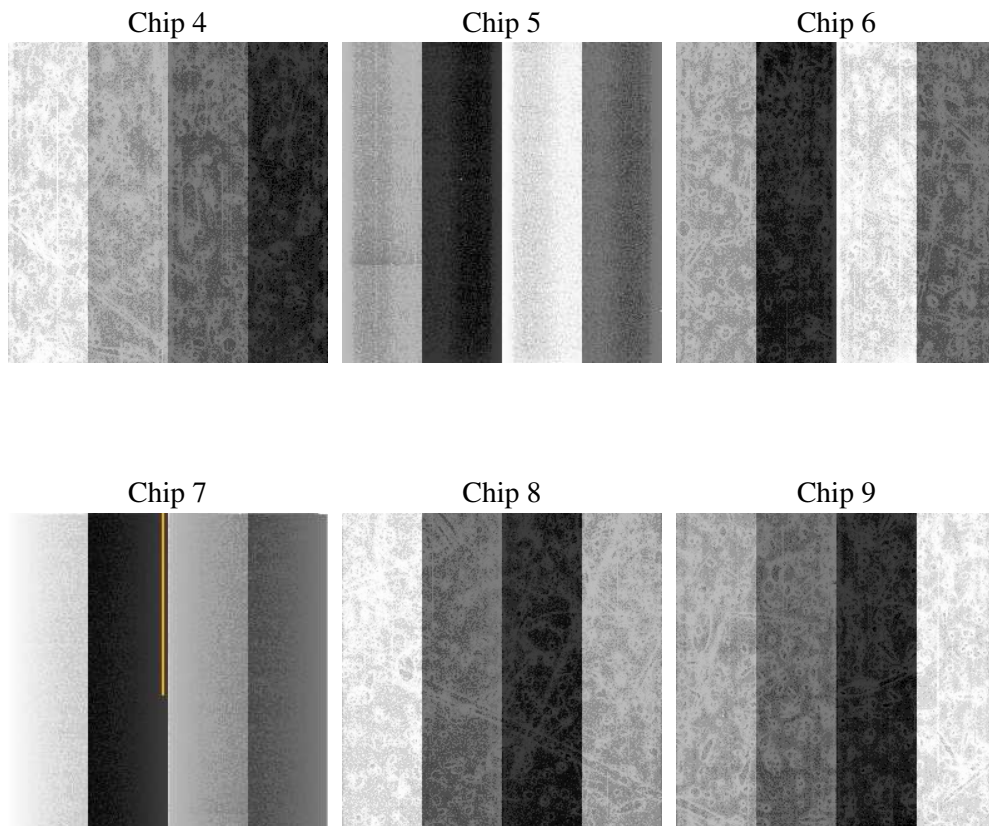
2 OBI

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	2006-09-22T19:32:01
revision	2

sched_exp_time	25000.000000
ontime	26119.244472027
ontime4	25996.085021764
ontime5	26119.244472027
ontime6	26015.531172097
ontime7	26119.244472027
ontime8	26018.772232026
ontime9	26025.254292101
l1events	1298687

2.1.4 Events

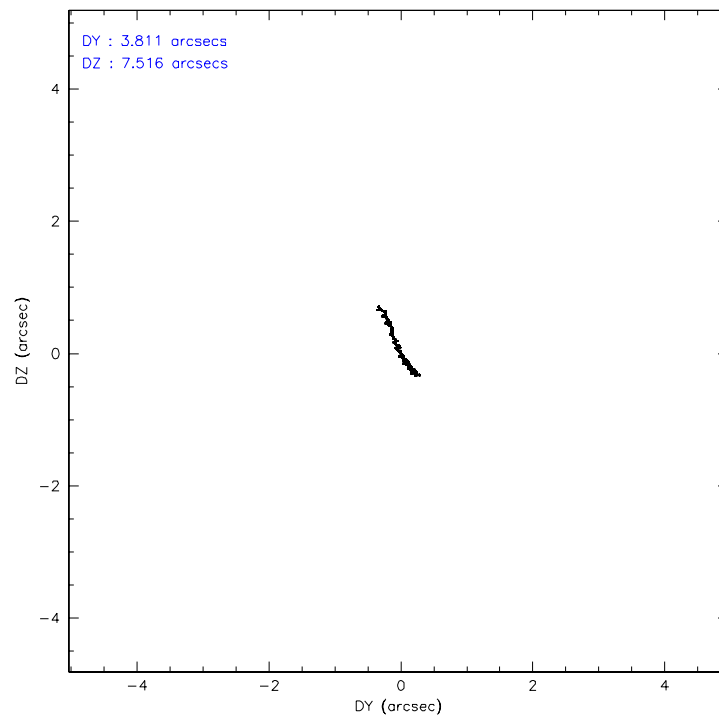
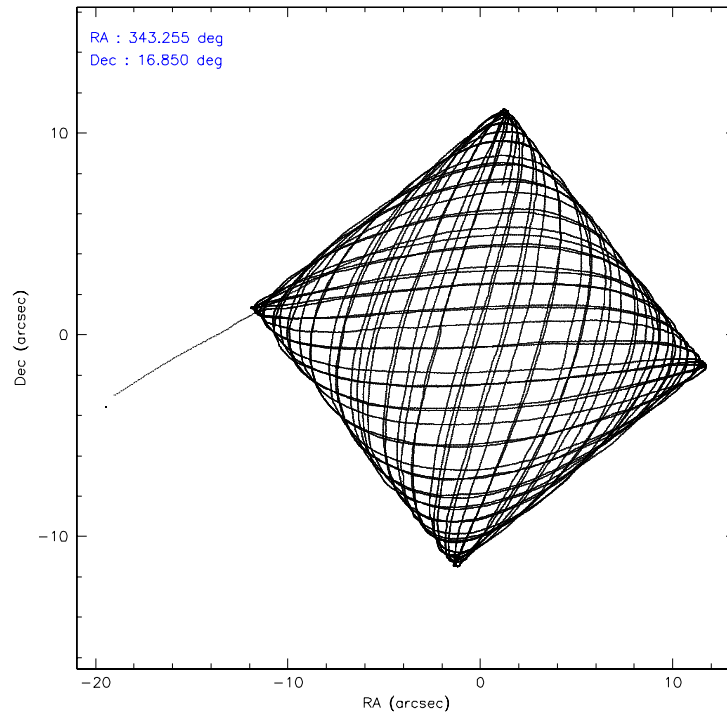
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	197099	264189	181870	238855	234163	182511
rejected events	174286	142621	154360	142715	177826	151653
rejected %	88%	53%	84%	59%	75%	83%

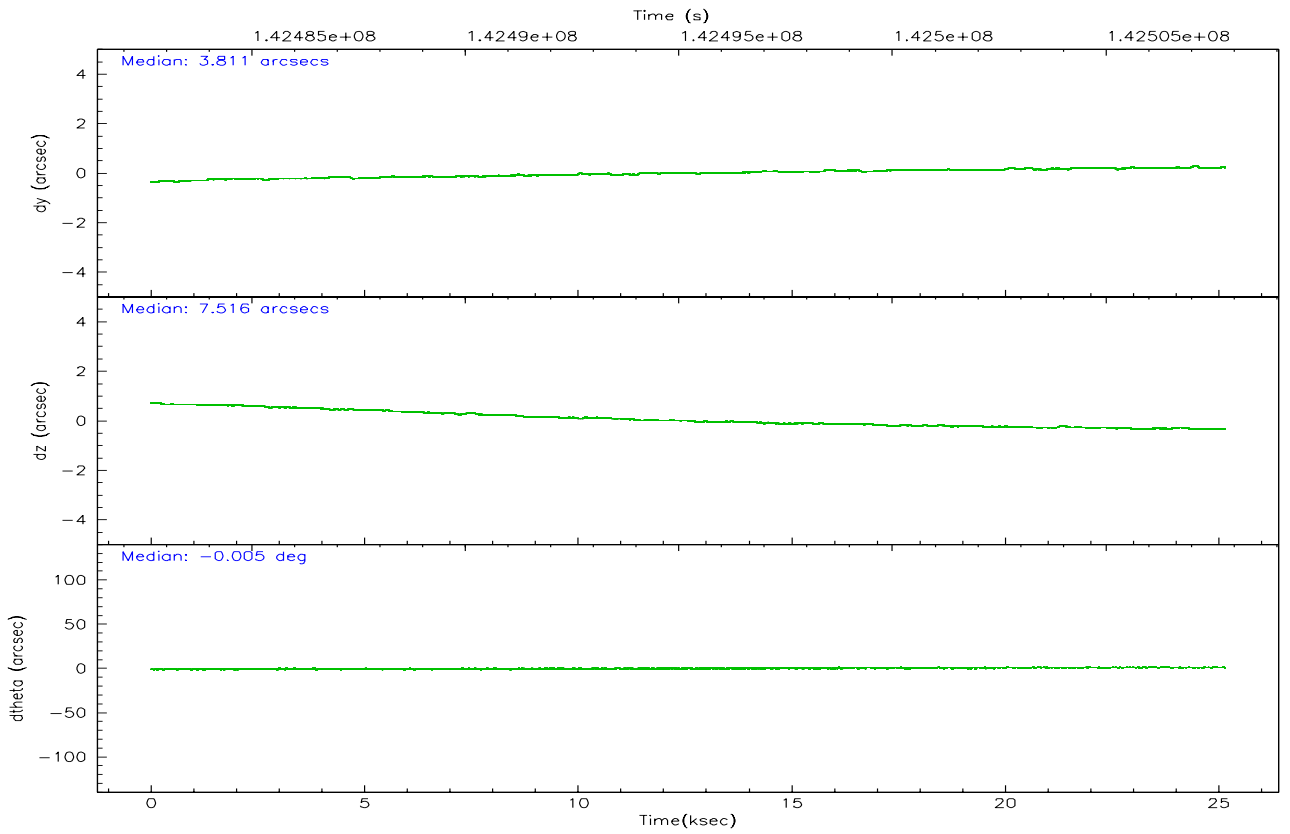
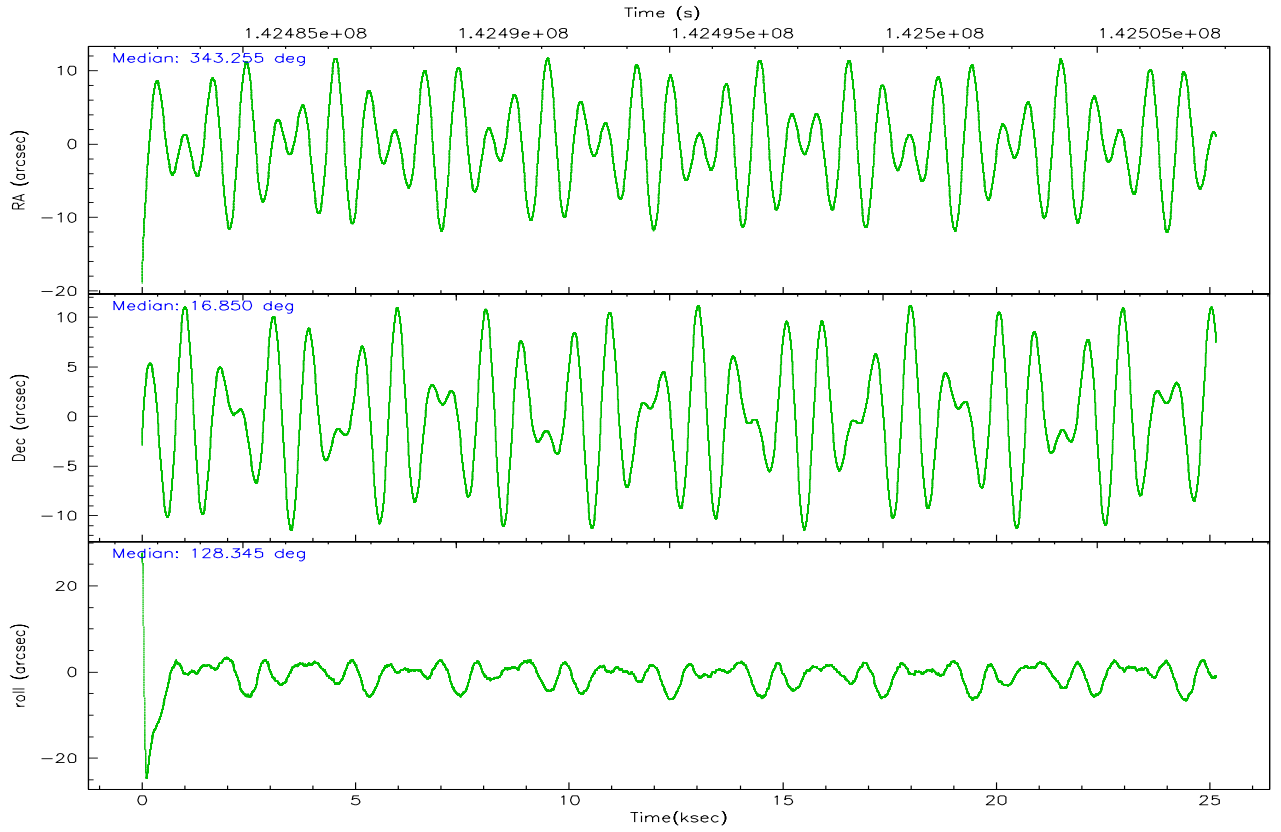
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	9950	20915	14401	7143	21672	18723
	5%	7%	7%	2%	9%	10%
grade 1 events	92	894	121	290	164	115
	0%	0%	0%	0%	0%	0%
grade 2 events	5821	36116	5106	25044	11251	4819
	2%	13%	2%	10%	4%	2%
grade 3 events	2001	2803	2275	5801	6341	2116
	1%	1%	1%	2%	2%	1%
grade 4 events	1974	2656	2121	5681	5964	2045
	1%	1%	1%	2%	2%	1%
grade 5 events	6291	11919	7440	15969	9532	7679
	3%	4%	4%	6%	4%	4%
grade 6 events	3919	63825	4443	56113	13374	4380
	1%	24%	2%	23%	5%	2%
grade 7 events	167051	125061	145963	122814	165865	142634
	84%	47%	80%	51%	70%	78%

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	343.281383	343.2547953564136	Subarray requested	NONE	NONE
Pointing Dec	16.840013	16.84974735338956	Alternating exposures requested	N	N
Pointing Roll	128.188532	128.3528927172536	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	-187.1254020033014			
SIM translation stage offset (mm)	-3	-3.007120579706367			
Observation start time	142482790.184000	142481249.98409			
Observation start date	2002-07-08T02:32:06	2002-07-08T02:07:29			
Observation end time	142507790.184000	142508140.34769			
Observation end date	2002-07-08T09:28:46	2002-07-08T09:35:40			
Read mode	TIMED	TIMED			

2.3 Aspect



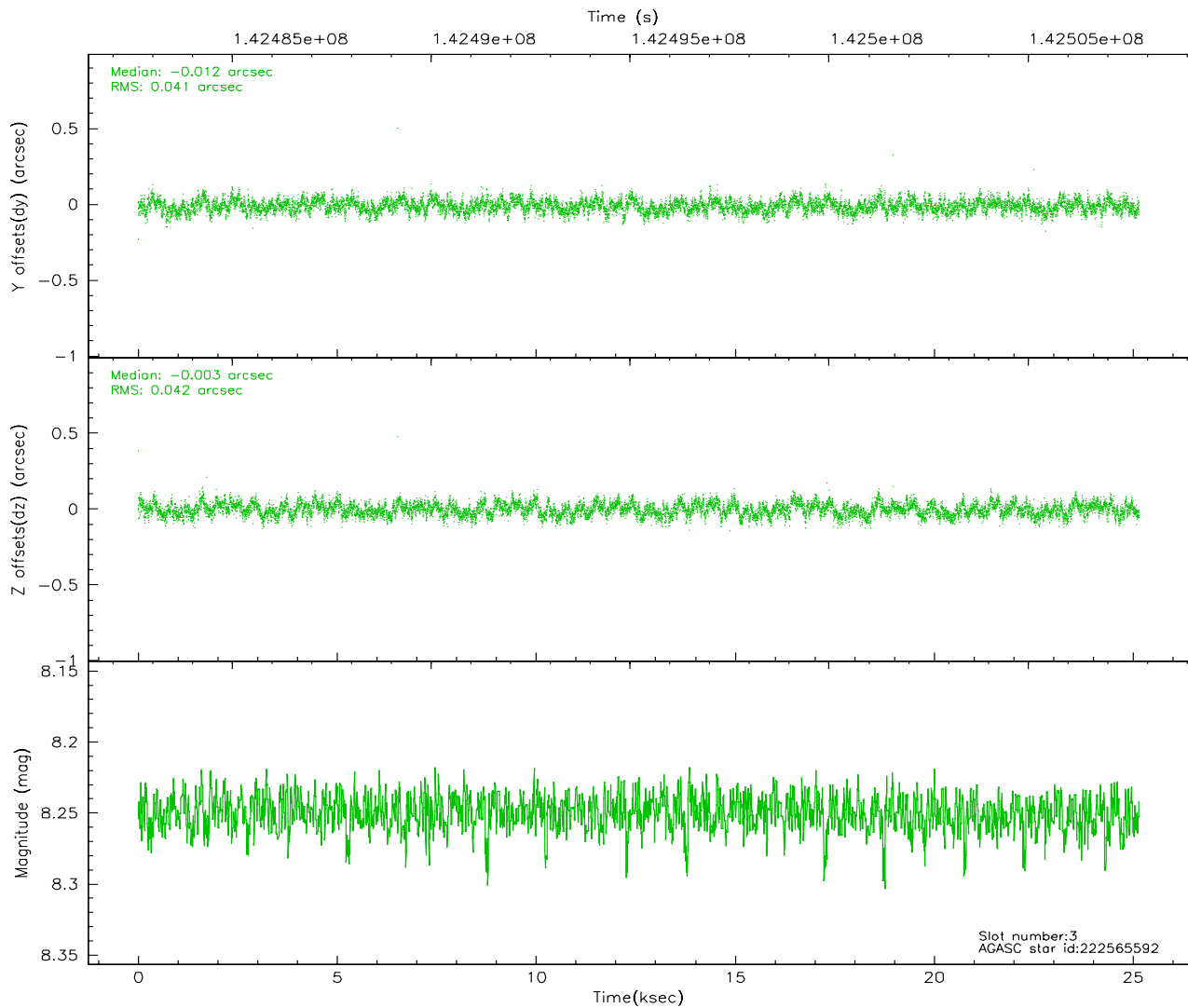
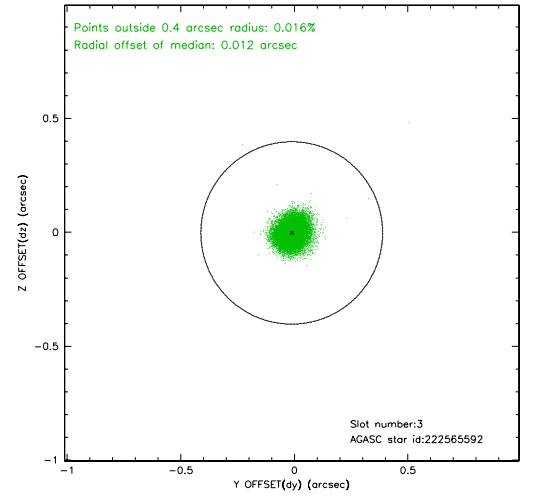
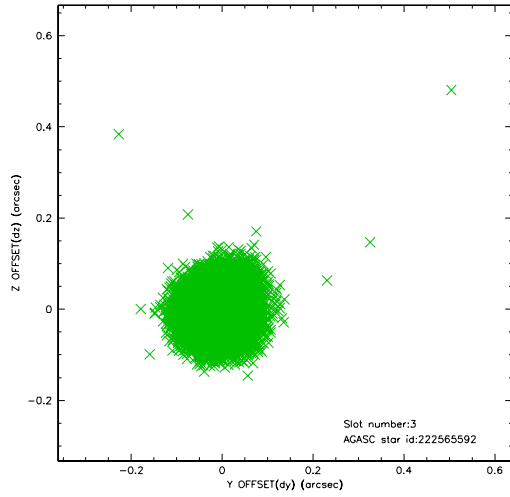


Slot Statistics

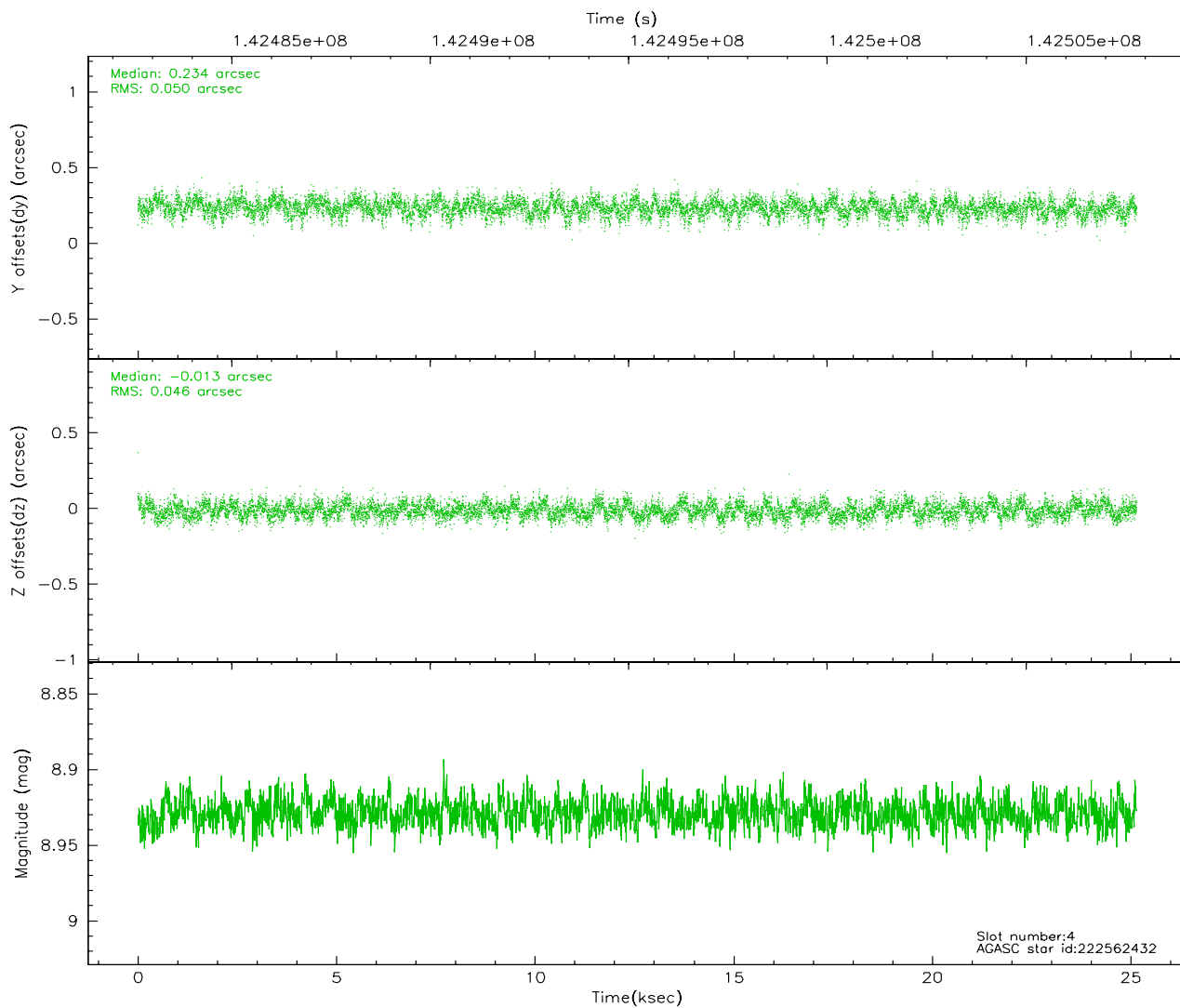
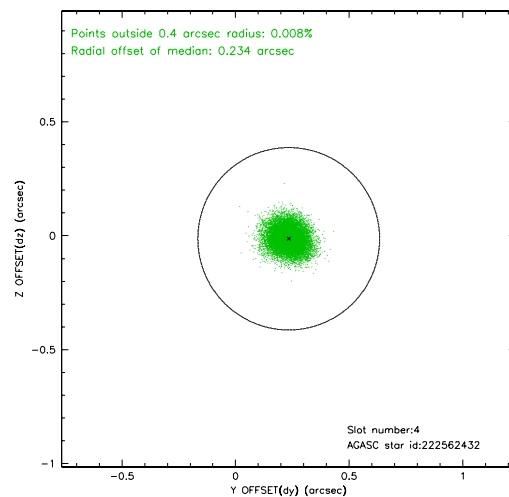
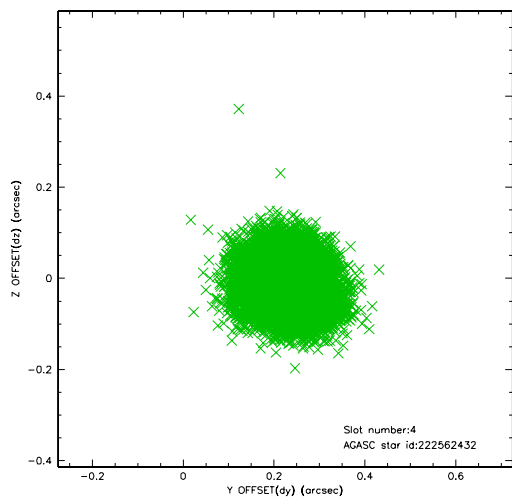
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	6135	-0.049	-0.018	0.014	0.022	0.000000	0.000000	-756.27	-1790.89
1	FID	ACIS-S-4	7.20	6135	0.009	0.028	0.012	0.020	0.000000	0.000000	2156.97	117.56
2	FID	ACIS-S-5	7.24	6135	0.010	-0.003	0.015	0.023	0.000000	0.000000	-1808.94	111.25
3	GUIDE	222565592	8.25	12269	-0.012	-0.003	0.062	0.098	343.291662	16.508291	-961.10	711.10
4	GUIDE	222562432	8.93	12266	0.234	-0.013	0.074	0.118	343.698150	16.309399	-2390.89	48.53
5	GUIDE	222563736	8.82	12261	0.052	-0.159	0.074	0.121	343.076284	16.308502	-1066.45	1739.78
6	GUIDE	223089808	9.09	12265	-0.335	0.206	0.078	0.125	343.220223	17.508272	2019.81	-1321.48
7	GUIDE	222571232	9.54	12255	0.060	-0.033	0.129	0.198	343.021766	16.540282	-294.07	1371.39

2.4 Star Slots

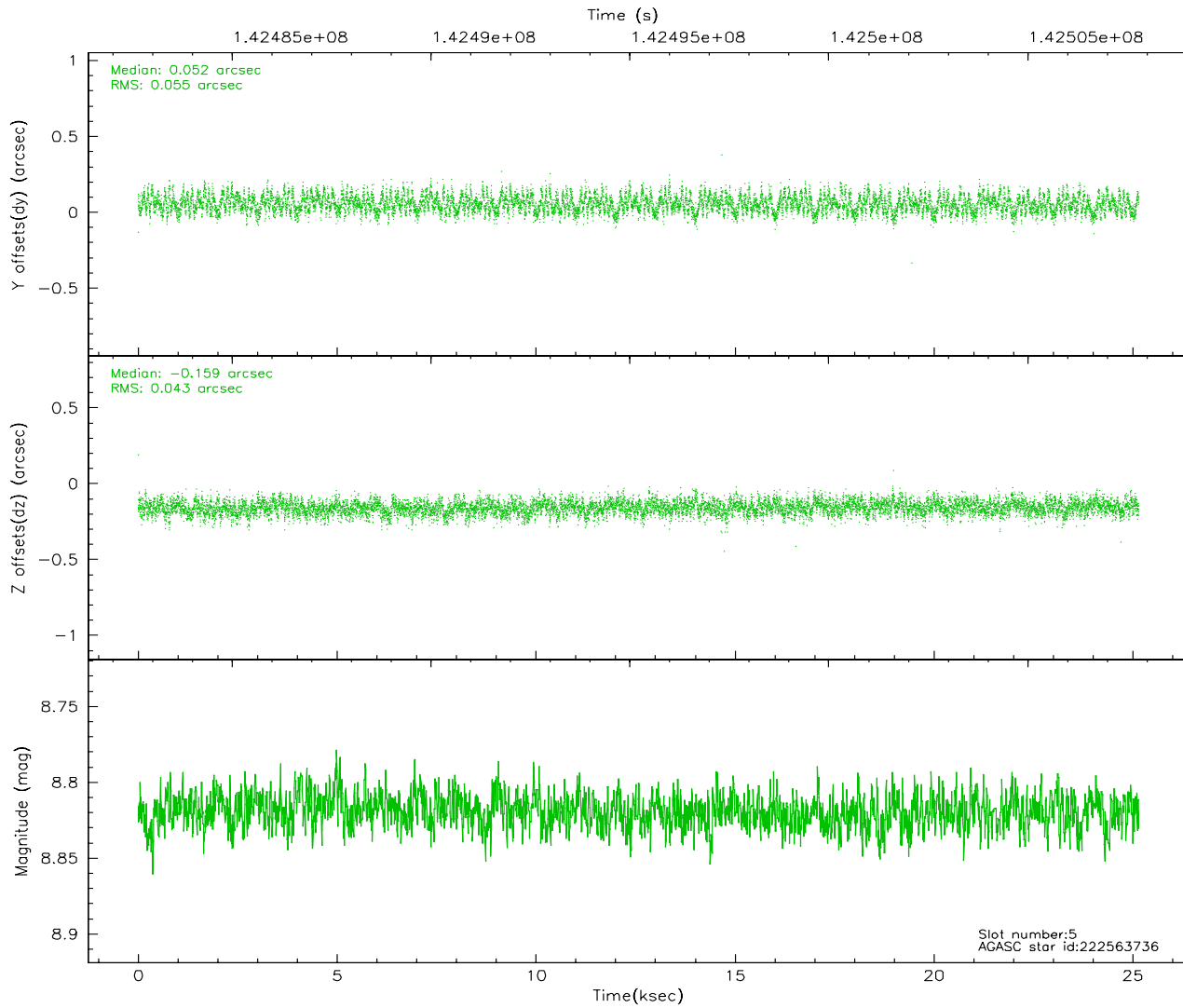
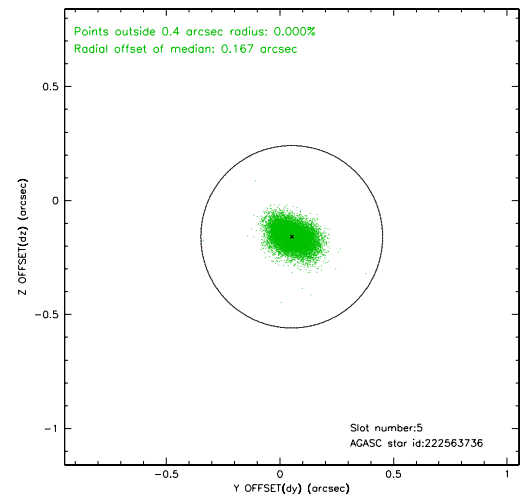
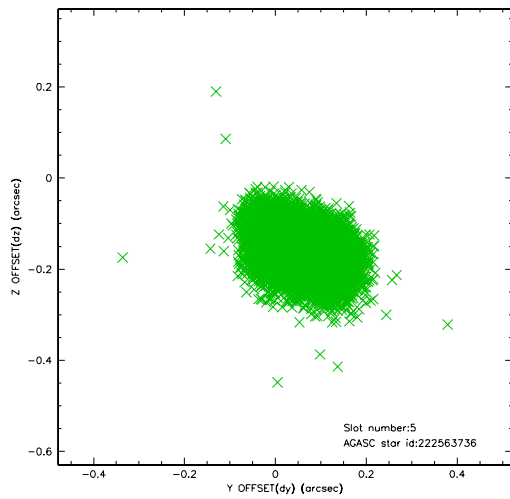
2.4.1 Slot 3



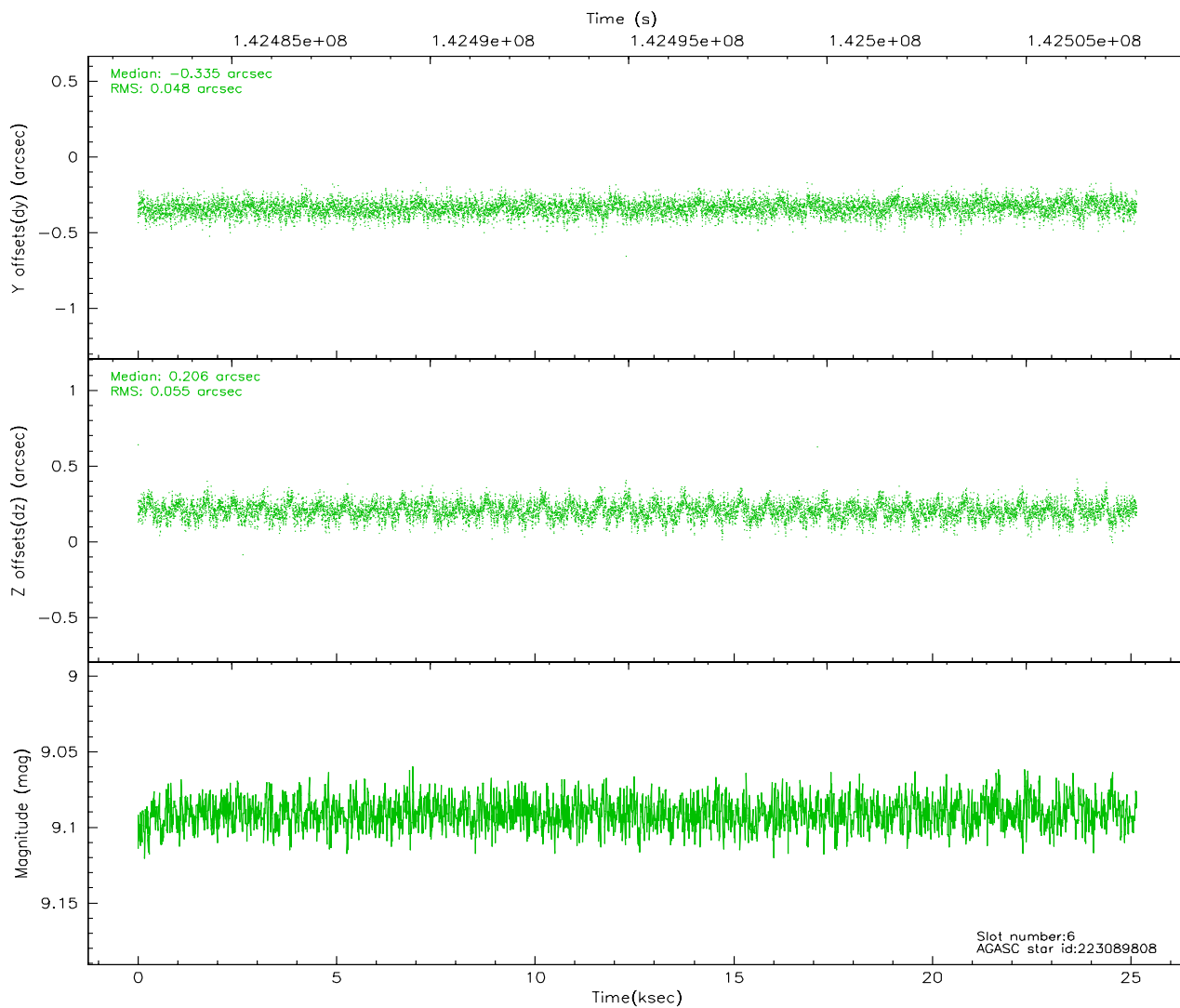
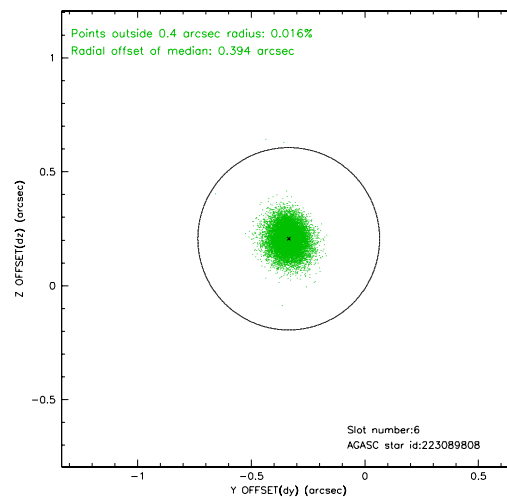
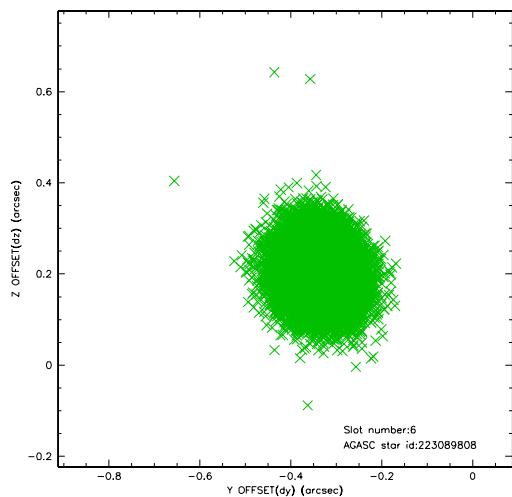
2.4.2 Slot 4



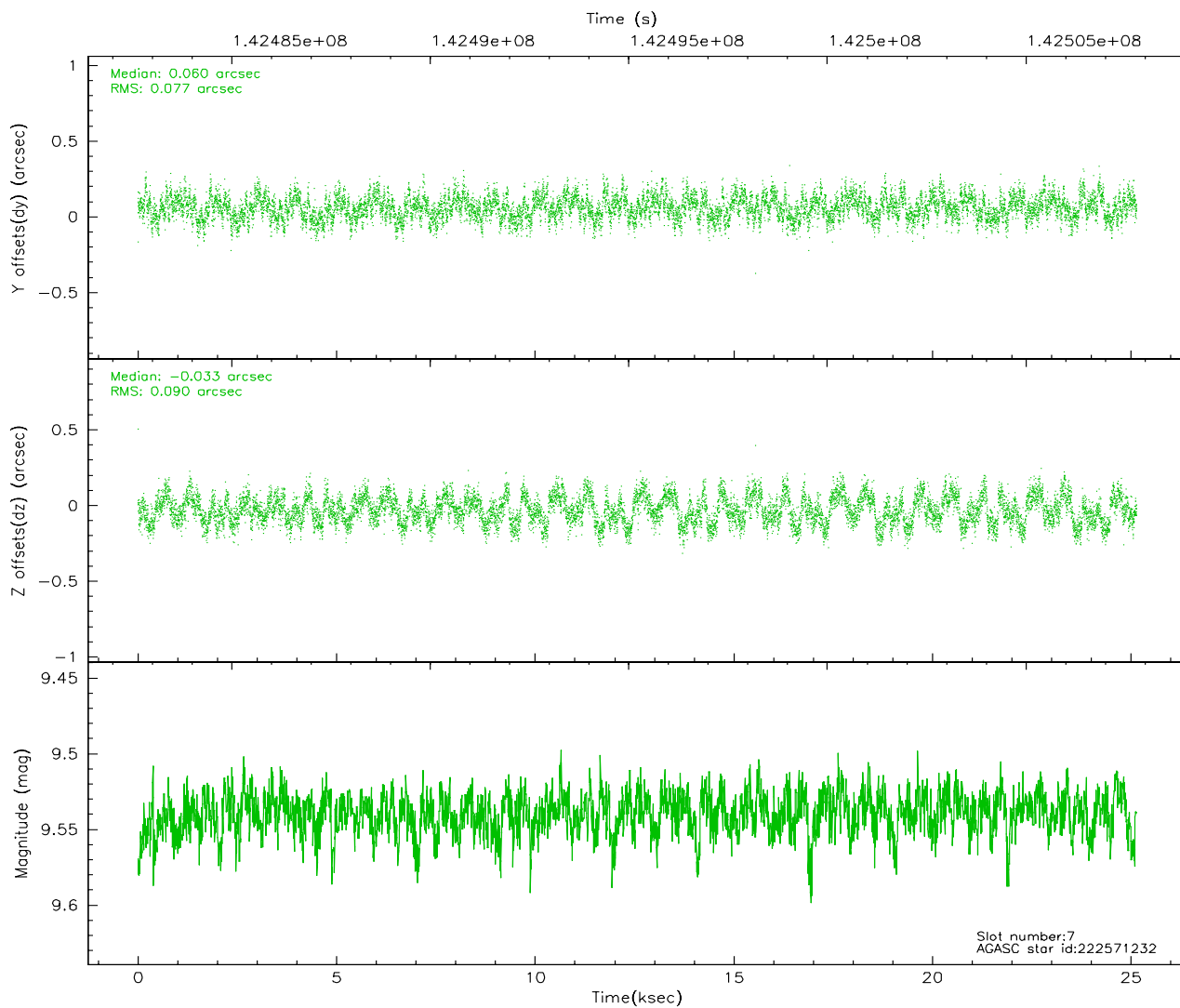
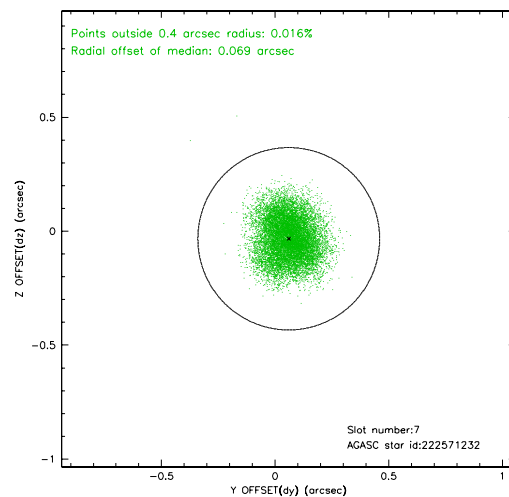
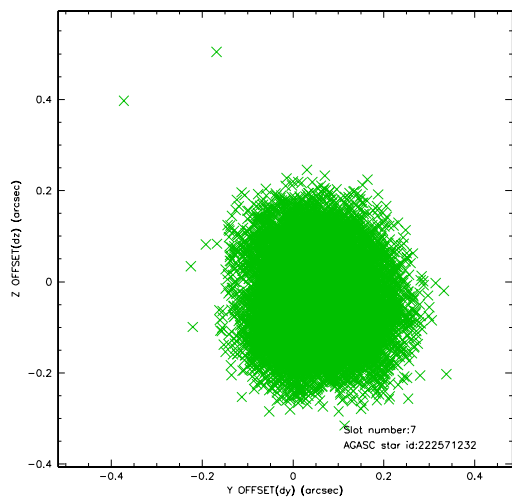
2.4.3 Slot 5



2.4.4 Slot 6

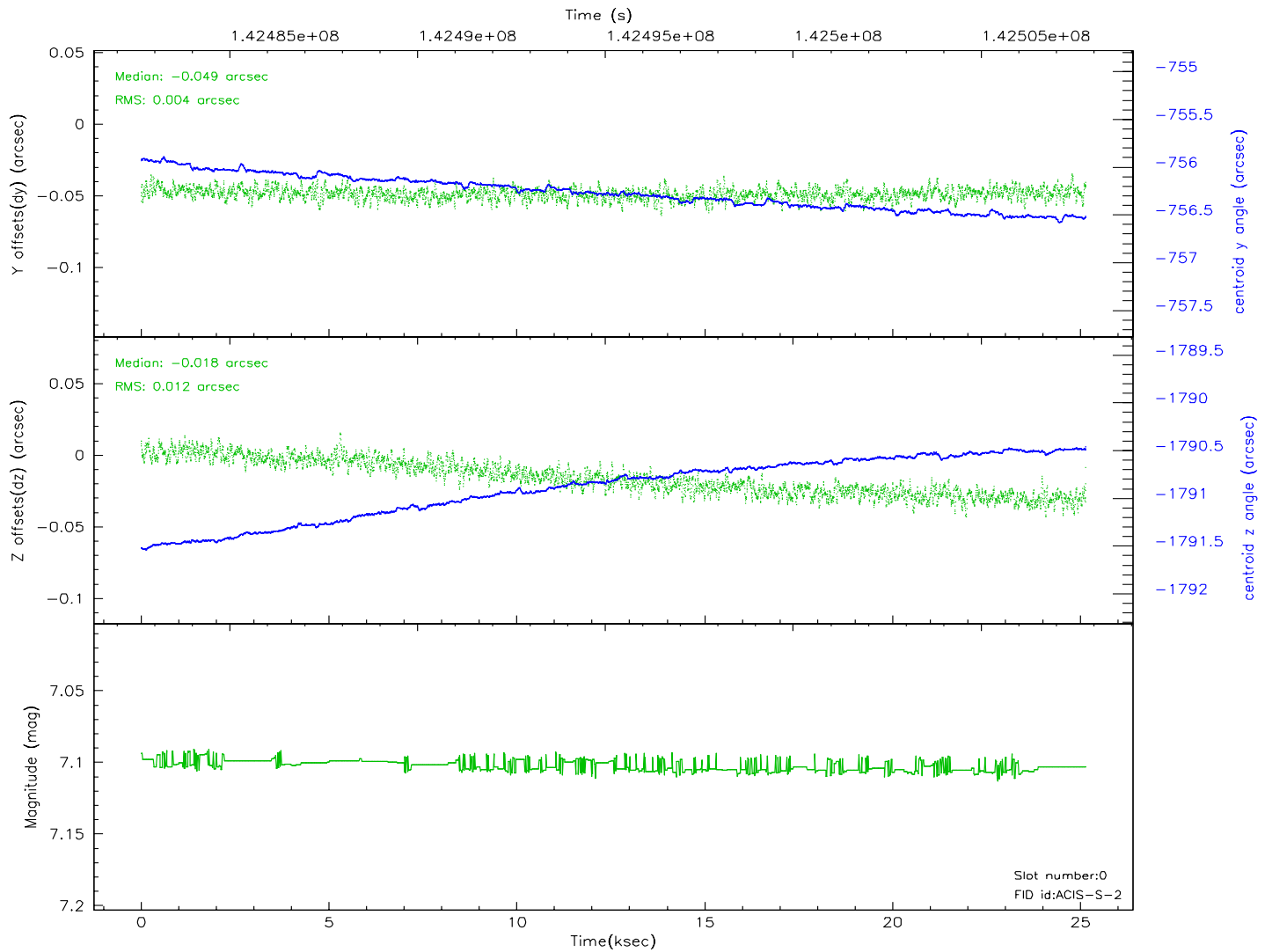
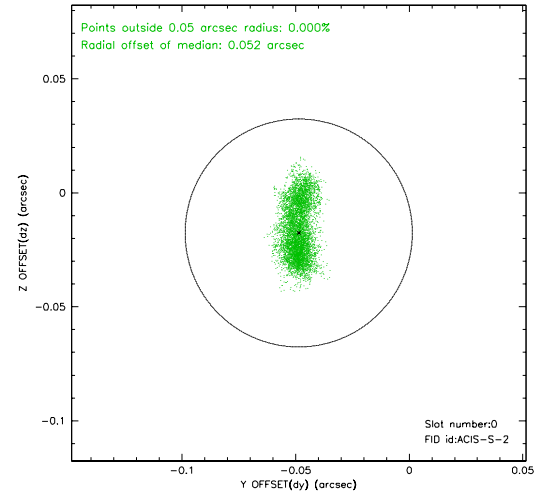
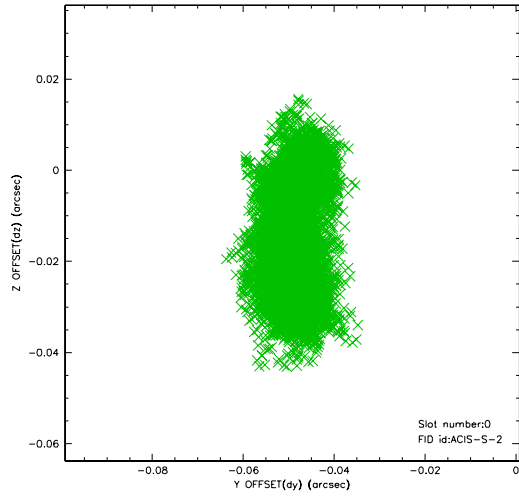


2.4.5 Slot 7

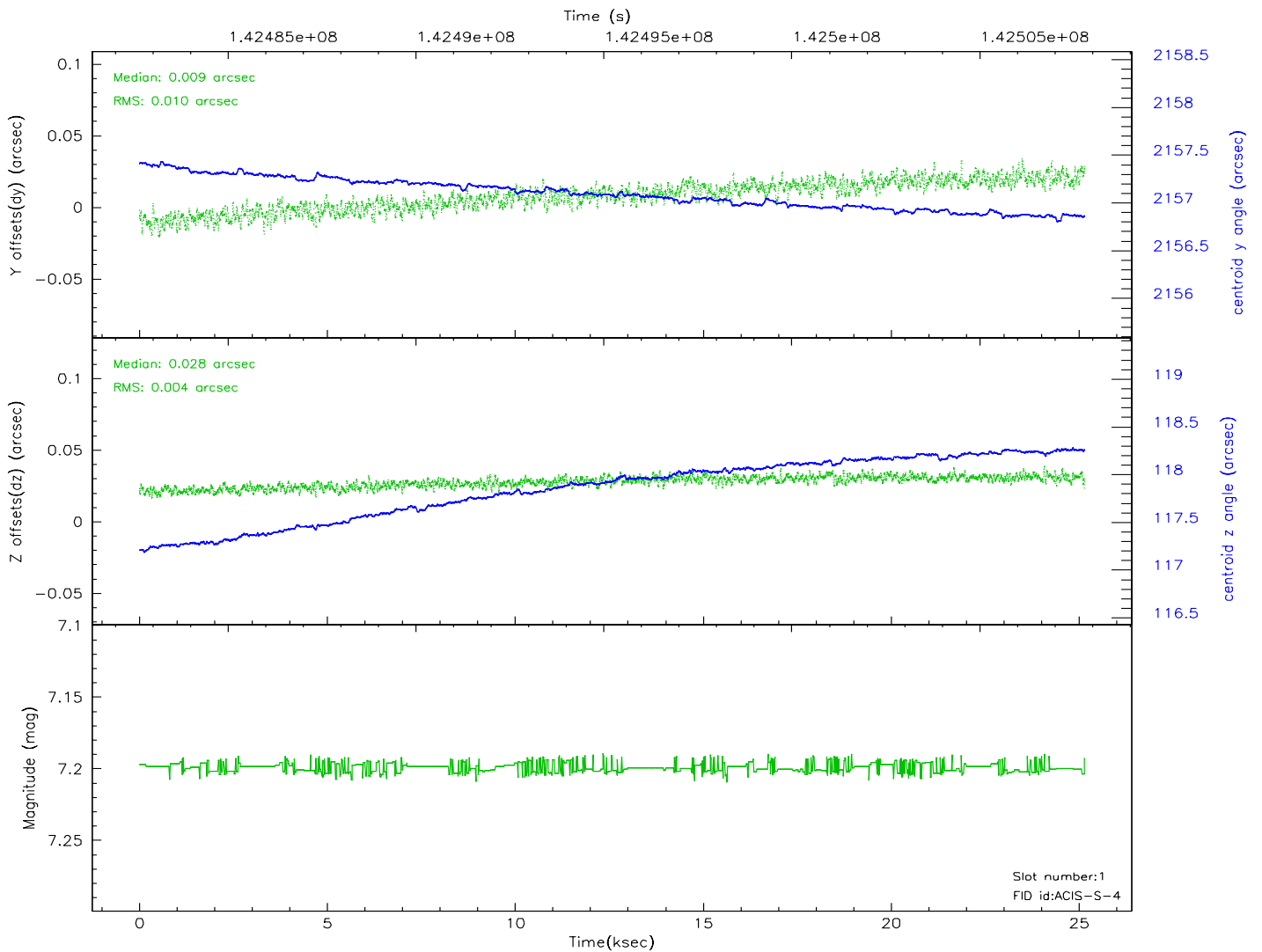
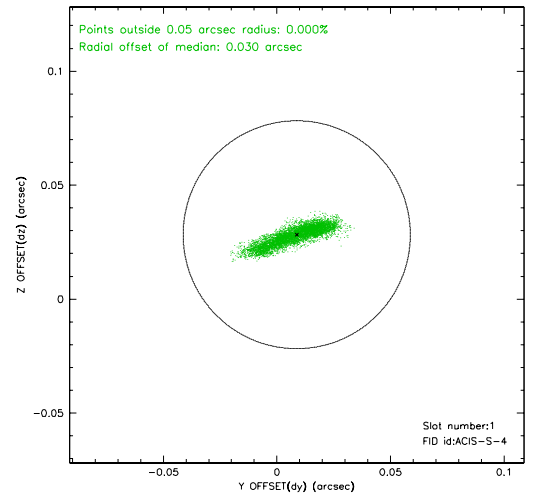
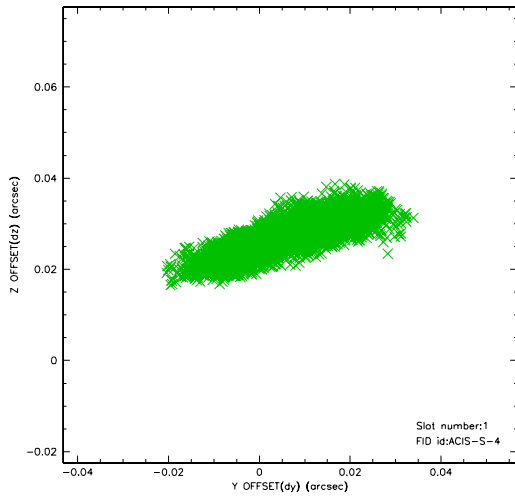


2.5 FID Slots

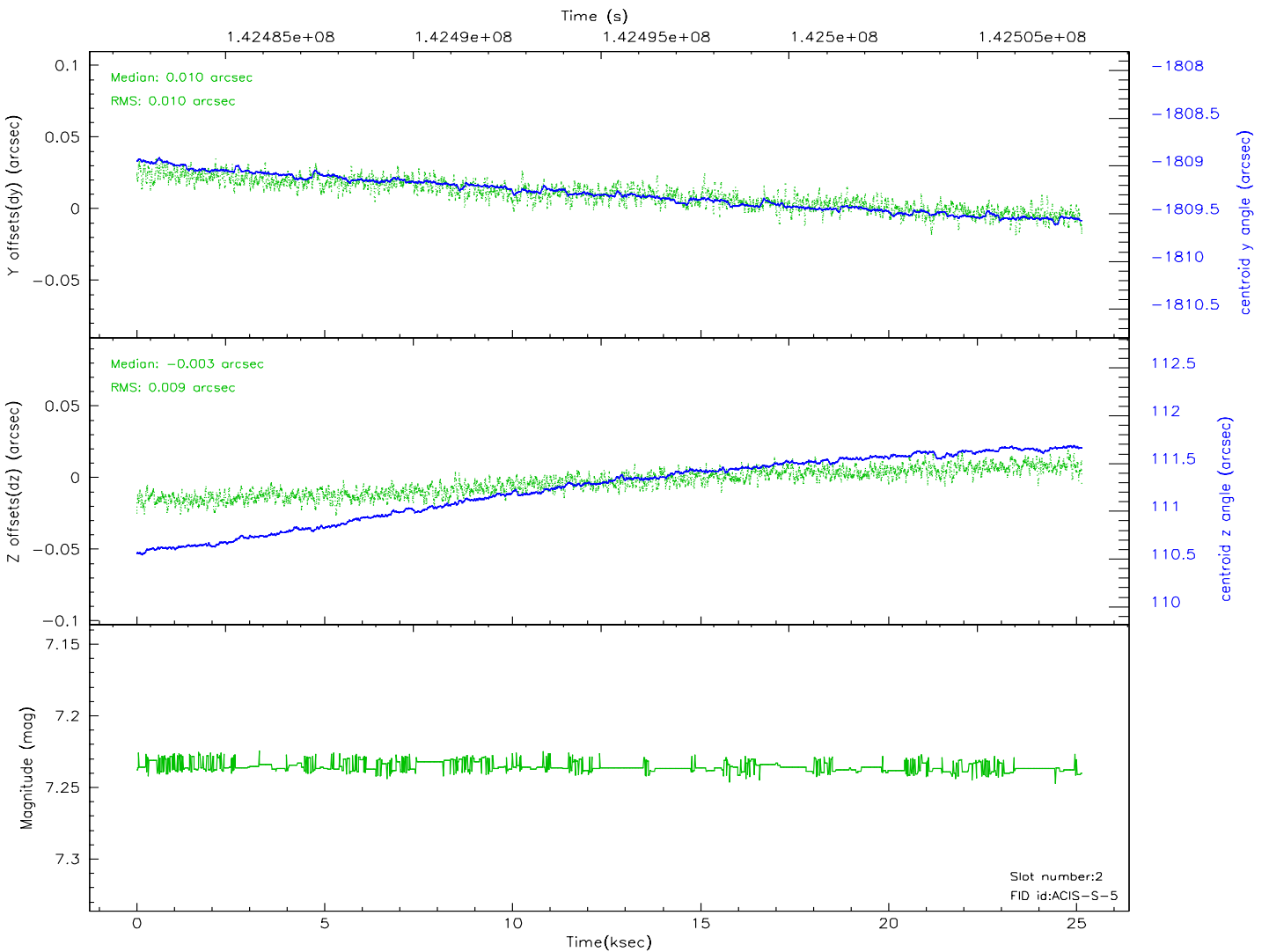
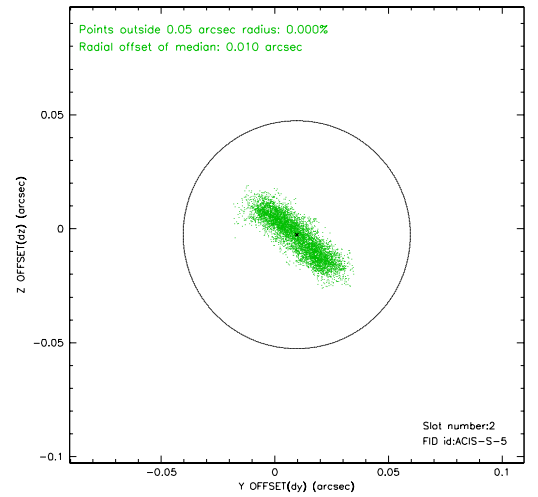
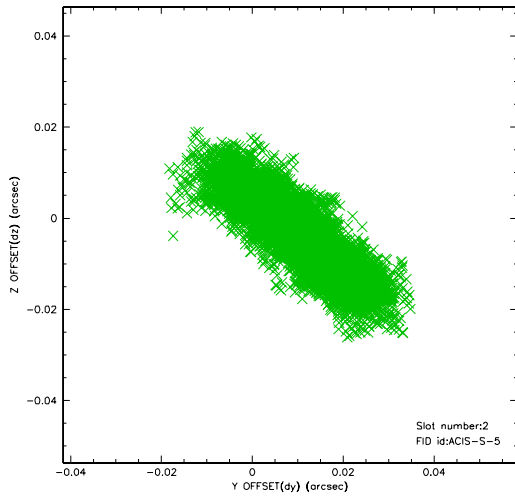
2.5.1 Slot 0



2.5.2 Slot 1

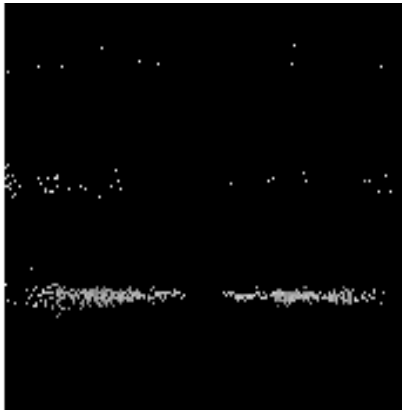


2.5.3 Slot 2

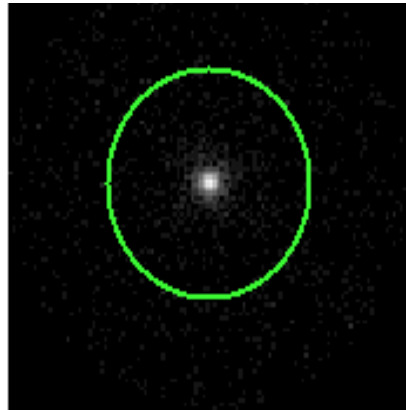


3 Gratings

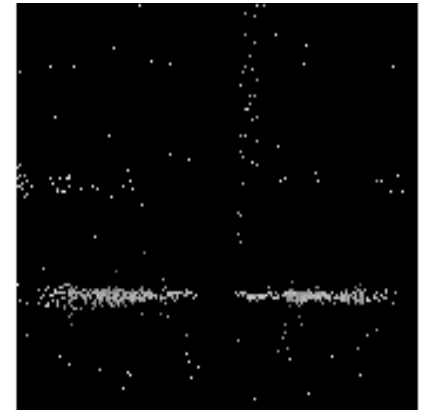
3.1 HEG Arm



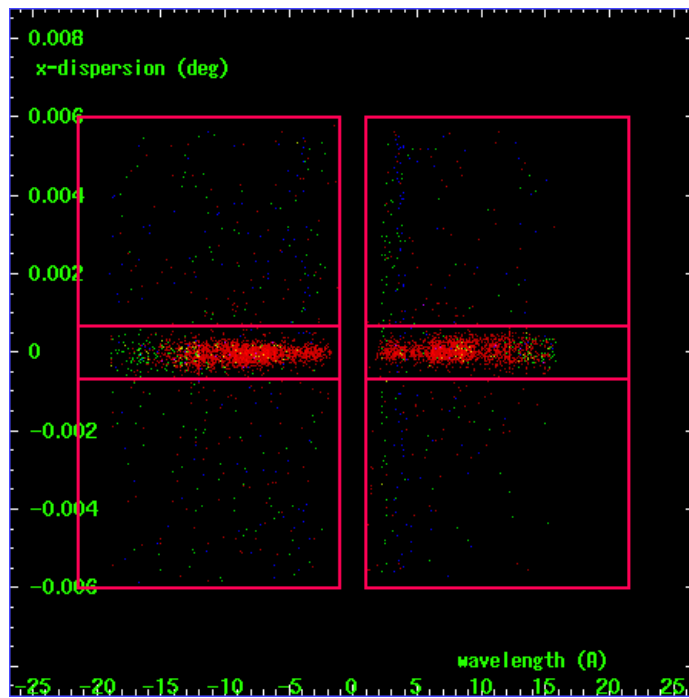
HEG Order Sort 123



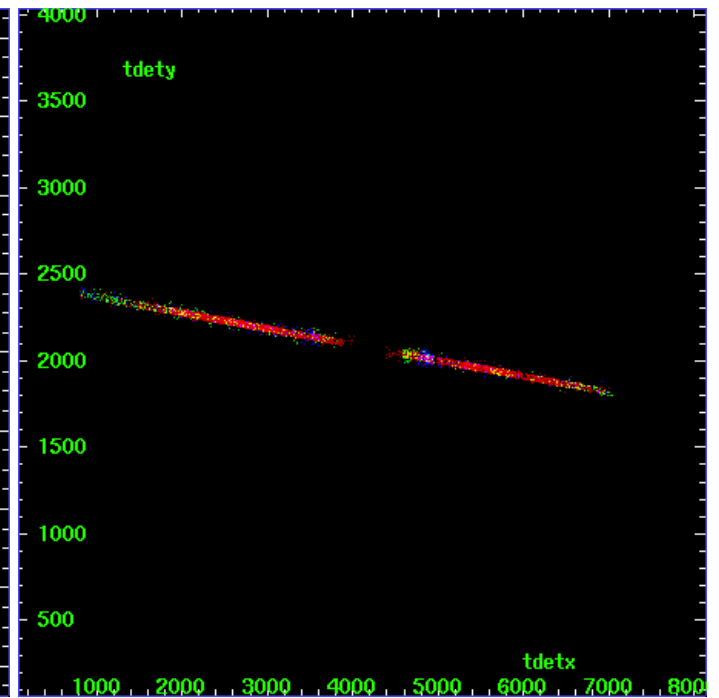
HEG Zero Order



HEG Order Sort ALL

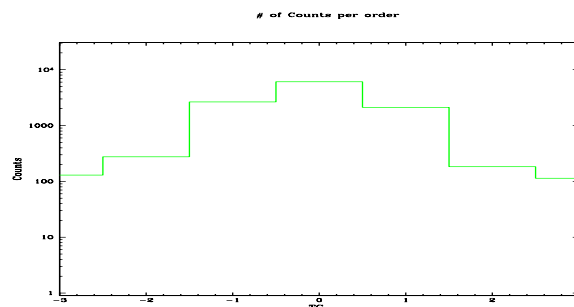


Spot Image HEG

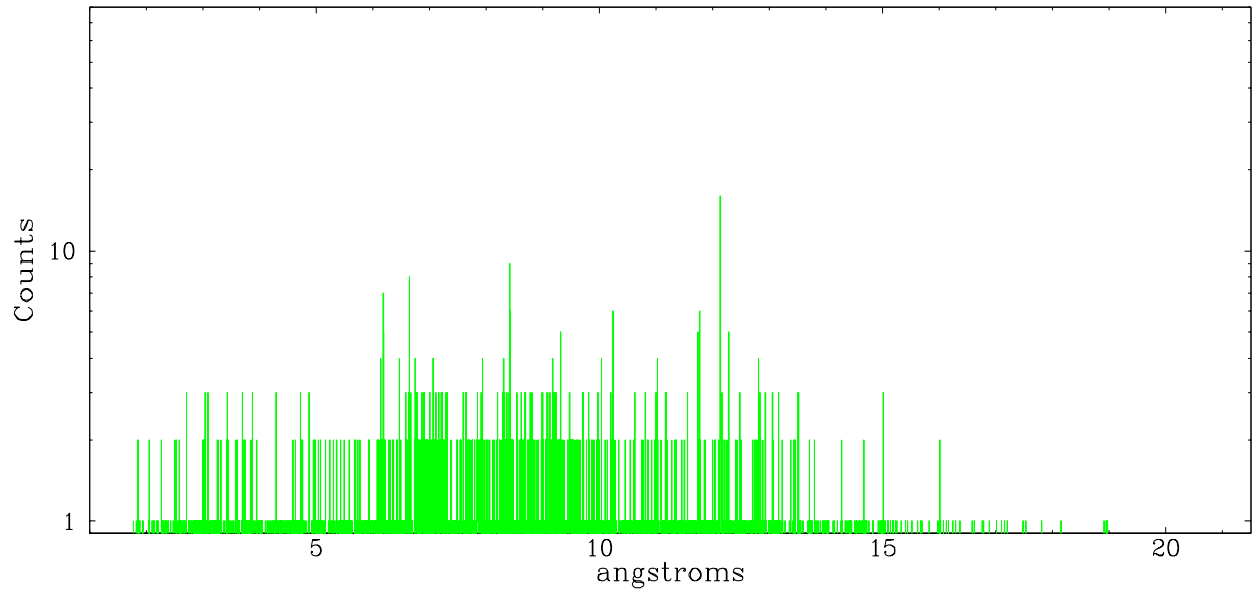


Full Detector HEG

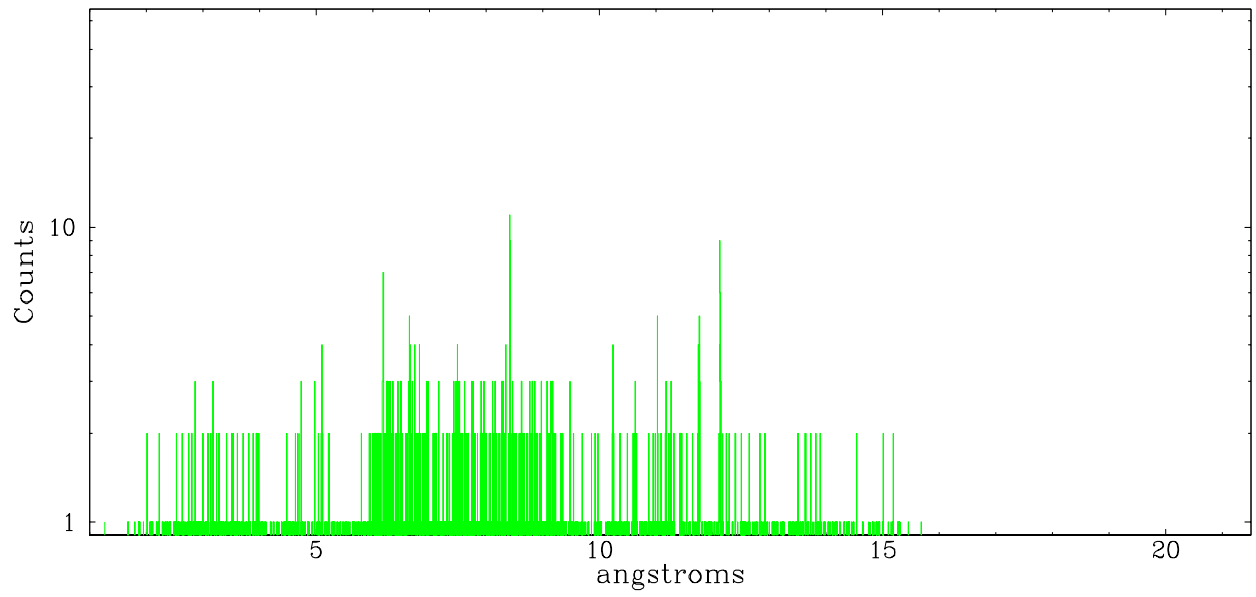
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	130	275	2643	6101	2113	183	114



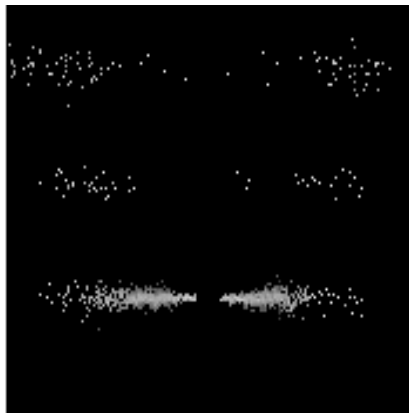
heg order -1



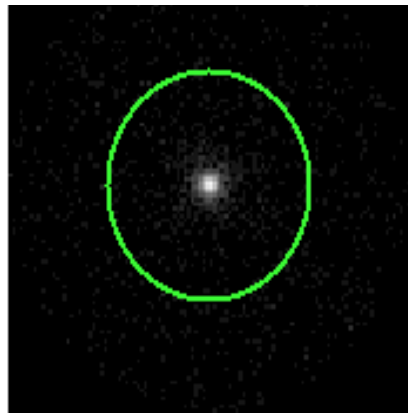
heg order +1



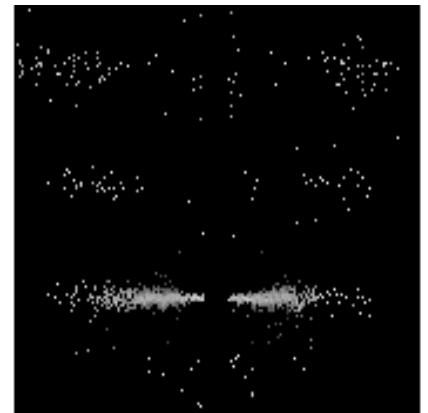
3.2 MEG Arm



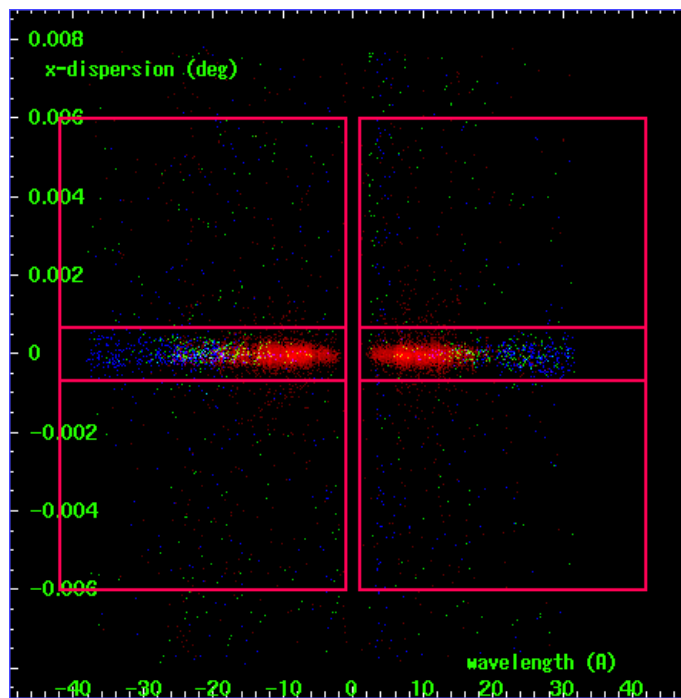
MEG Order Sort 123



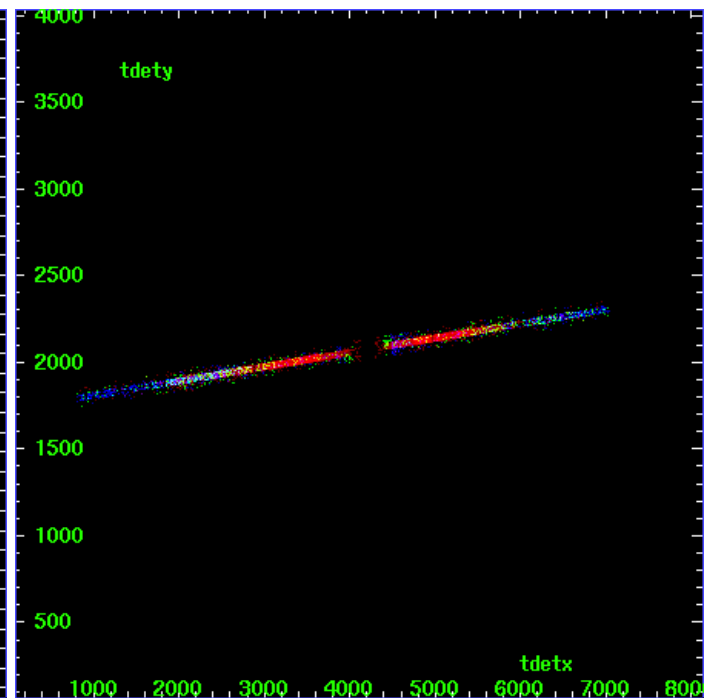
MEG Zero Order



MEG Order Sort ALL

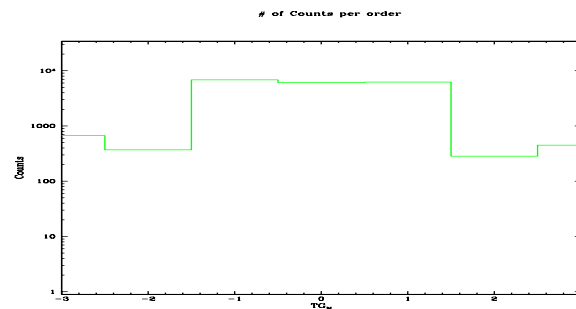


Spot Image MEG

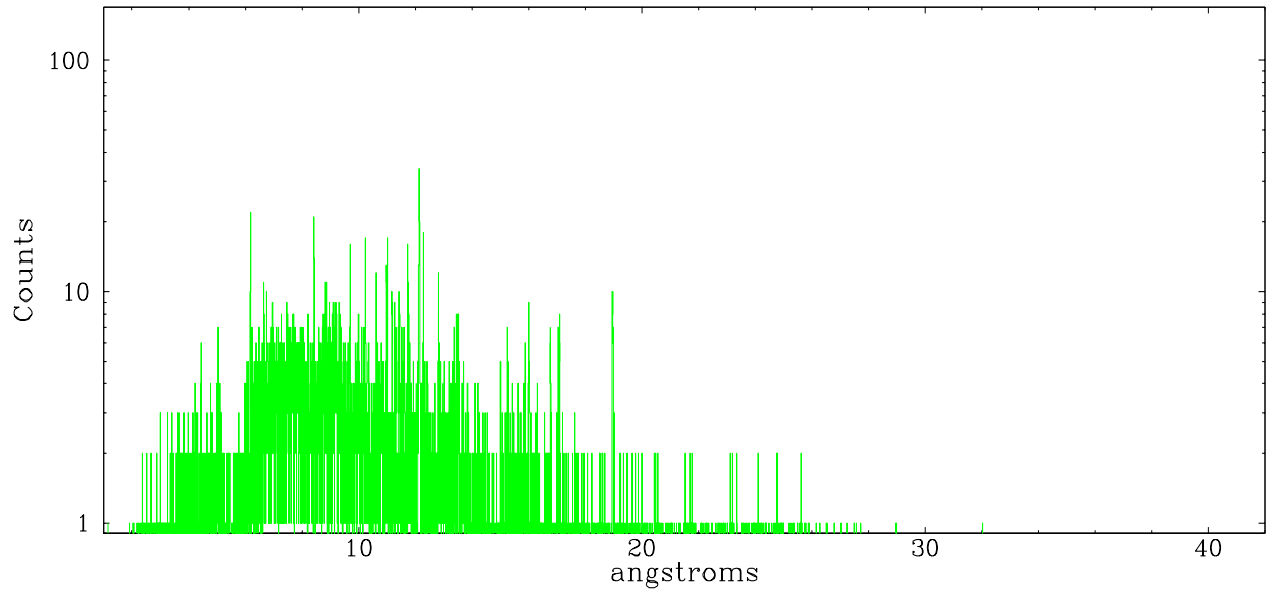


Full Detector MEG

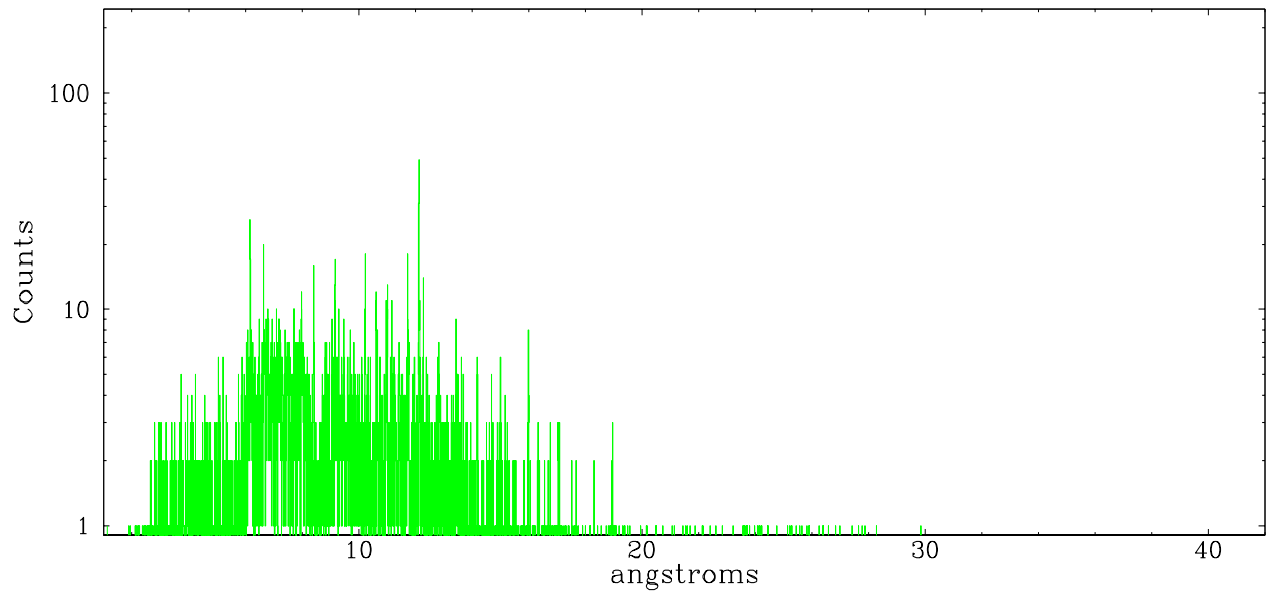
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	667	370	6801	6101	6198	283	447



meg order -1



meg order +1



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2006.09.24
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	25.129

A.2 Comments