

V&V Reference Report

L2 ASCDS Version : 7.6.9

Observation 2332 - L2 Version 001
Chandra X-Ray Center

L2 Processing Date : Dec 28 2006

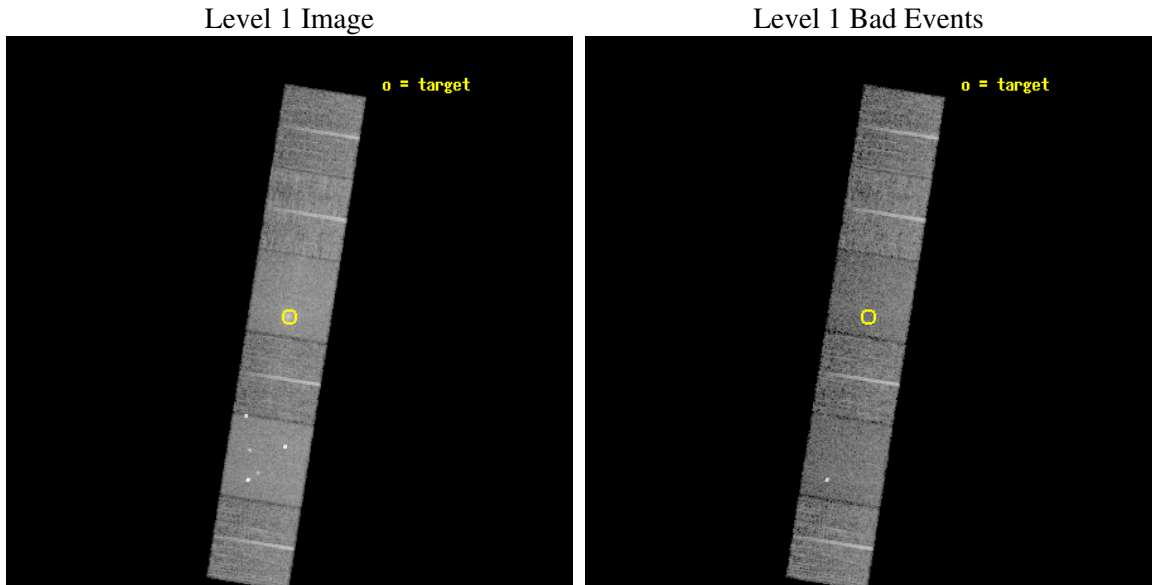
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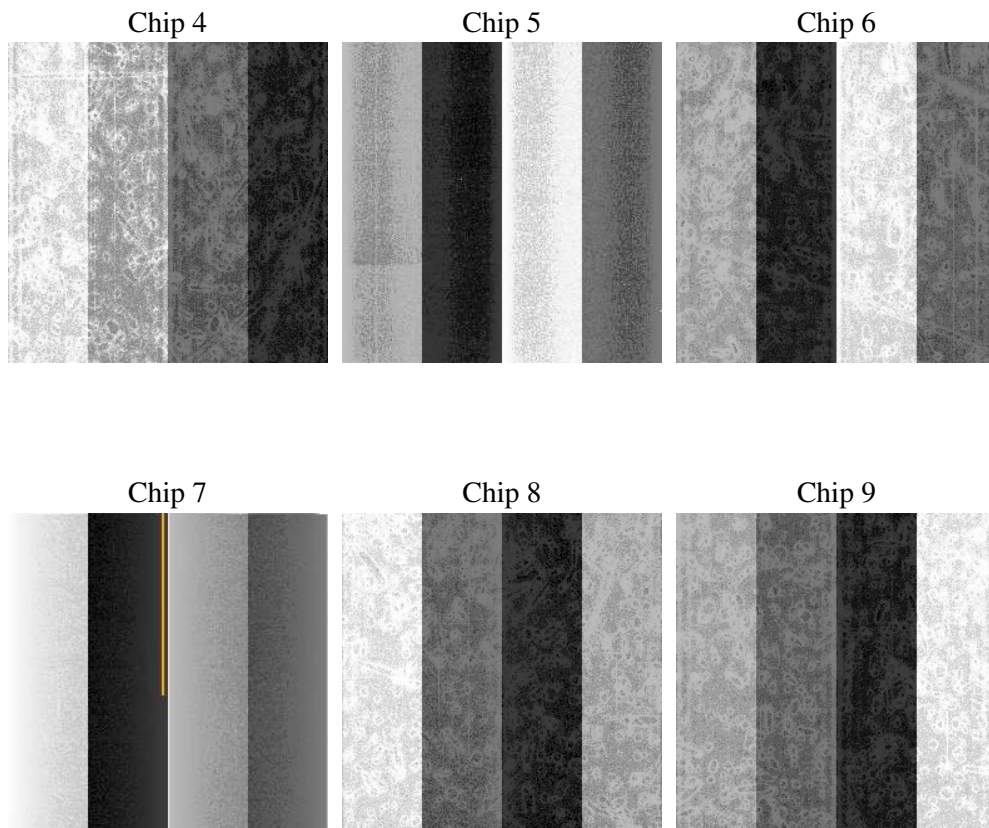
2 OBI

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	2006-11-15T23:11:51
revision	2

sched_exp_time	10000.000000
ontime	9881.8068929464
ontime4	9878.5658728629
ontime5	9881.8068929464
ontime6	9878.5659326911
ontime7	9881.8068929464
ontime8	9881.8068929464
ontime9	9881.8068929464
l1events	492103

2.1.4 Events

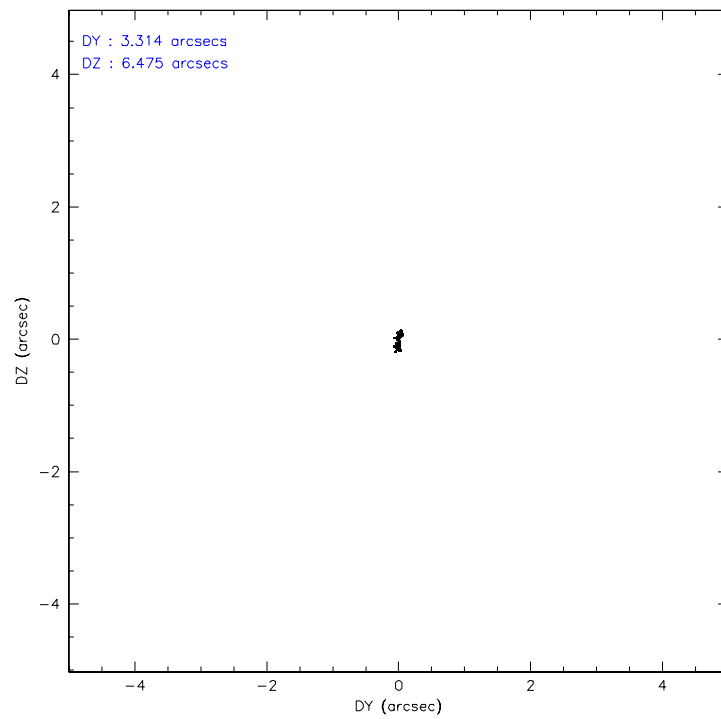
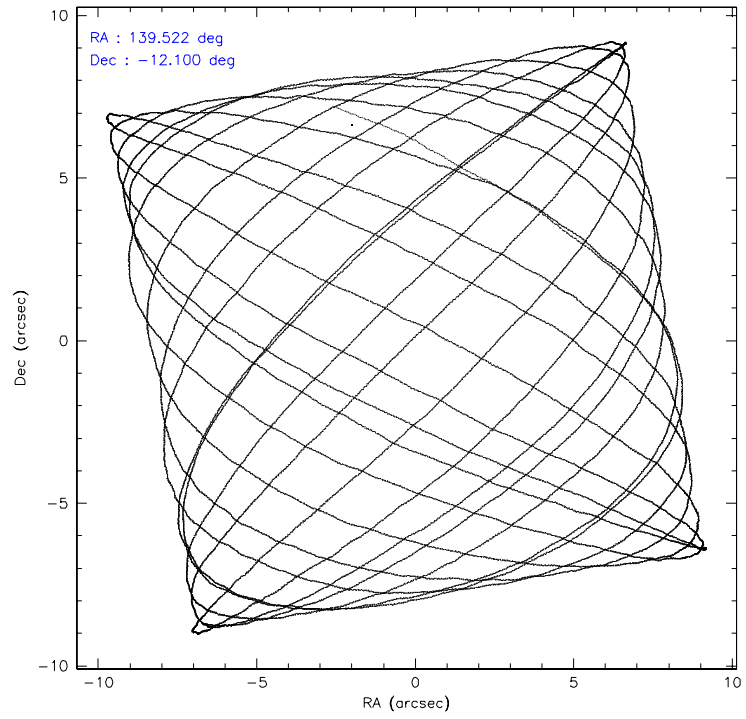
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	75046	98682	71381	95020	87013	64961
rejected events	67138	52478	58566	51218	67962	56921
rejected %	89%	53%	82%	53%	78%	87%

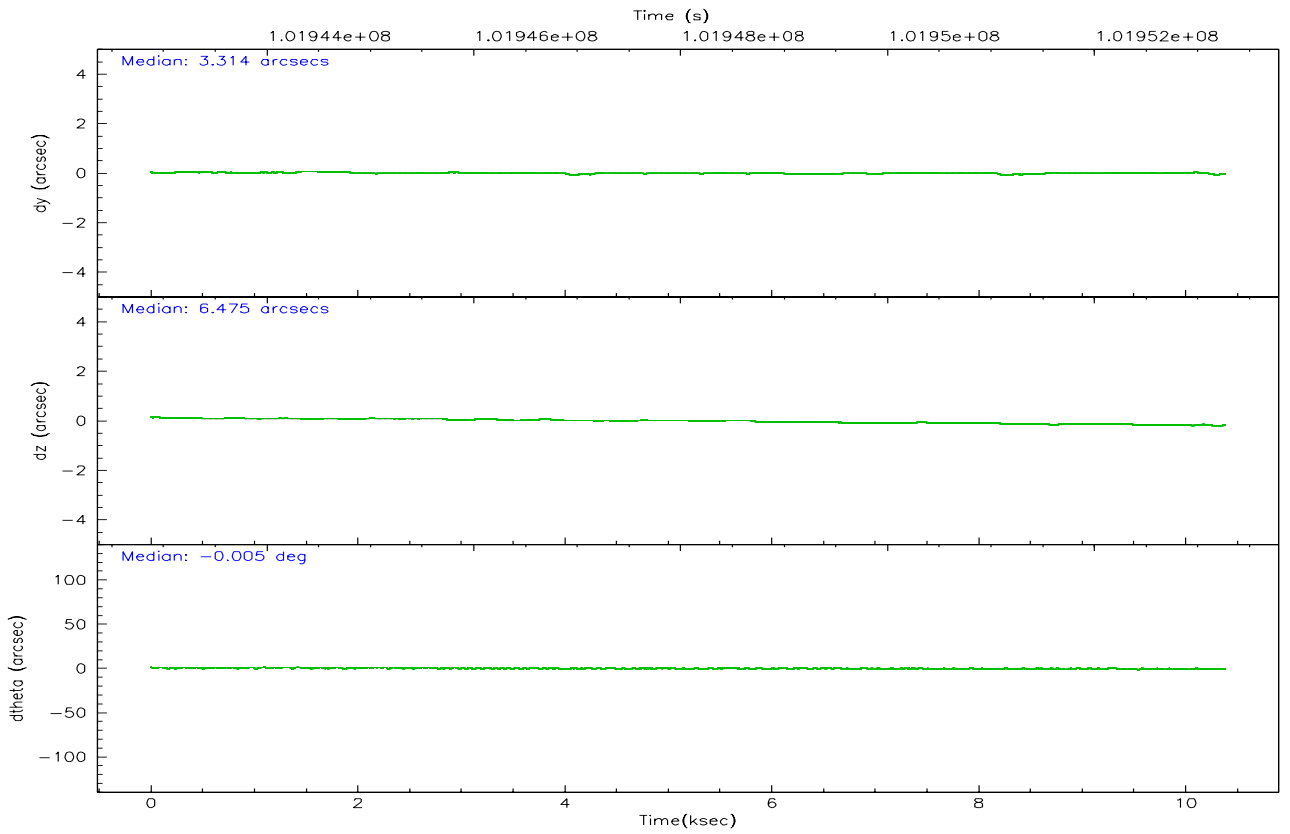
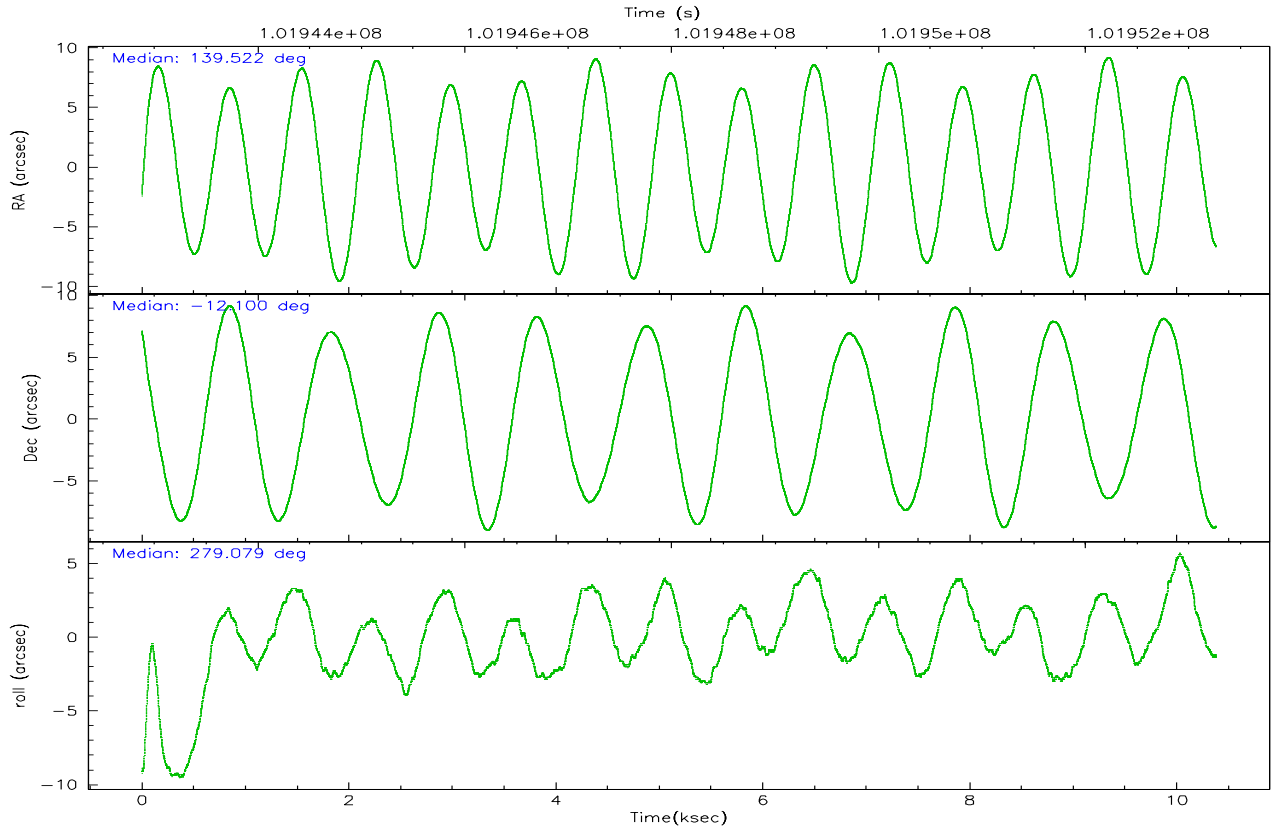
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	3283	6385	7324	4588	7378	3412
	4%	6%	10%	4%	8%	5%
grade 1 events	35	79	49	50	74	28
	0%	0%	0%	0%	0%	0%
grade 2 events	1952	14122	2032	11322	3732	1530
	2%	14%	2%	11%	4%	2%
grade 3 events	713	1304	890	2954	1796	808
	0%	1%	1%	3%	2%	1%
grade 4 events	651	1142	962	2911	1811	752
	0%	1%	1%	3%	2%	1%
grade 5 events	2305	5034	2788	5850	3474	2893
	3%	5%	3%	6%	3%	4%
grade 6 events	1313	23280	1615	22060	4346	1544
	1%	23%	2%	23%	4%	2%
grade 7 events	64794	47336	55721	45285	64402	53994
	86%	47%	78%	47%	74%	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	139.504858	139.5227078066471	Subarray requested	NONE	NONE
Pointing Dec	-12.079167	-12.10022688928567	Alternating exposures requested	N	N
Pointing Roll	278.920365	279.0807302569159	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	101943237.184000	101942190.35555			
Observation start date	2001-03-25T21:32:53	2001-03-25T21:16:30			
Observation end time	101953237.184000	101953669.8435			
Observation end date	2001-03-26T00:19:33	2001-03-26T00:27:49			
Read mode	TIMED	TIMED			

2.3 Aspect



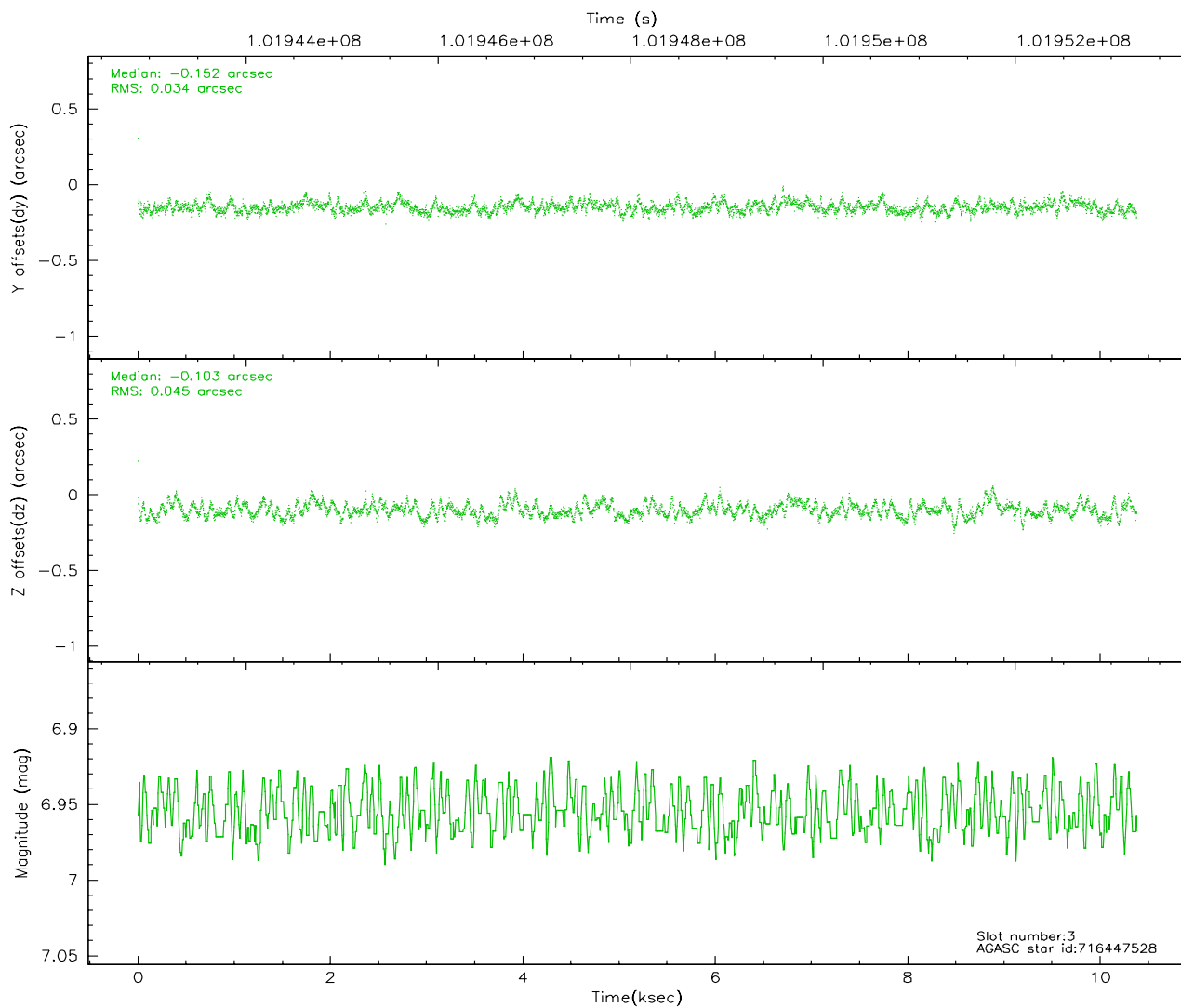
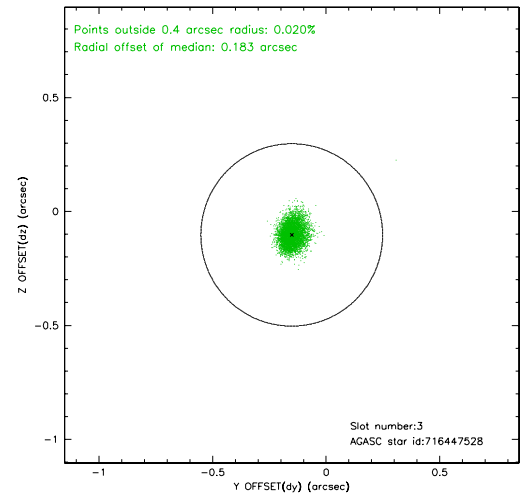
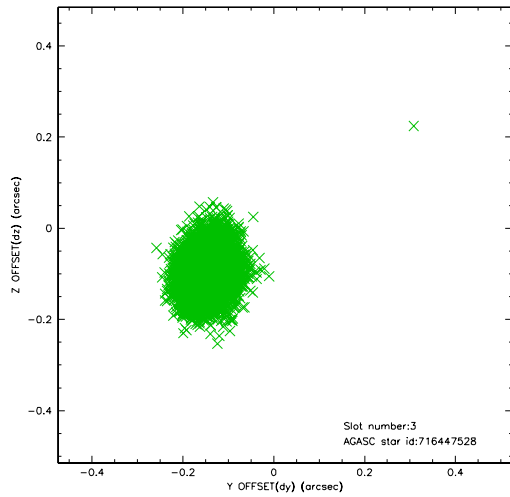


Slot Statistics

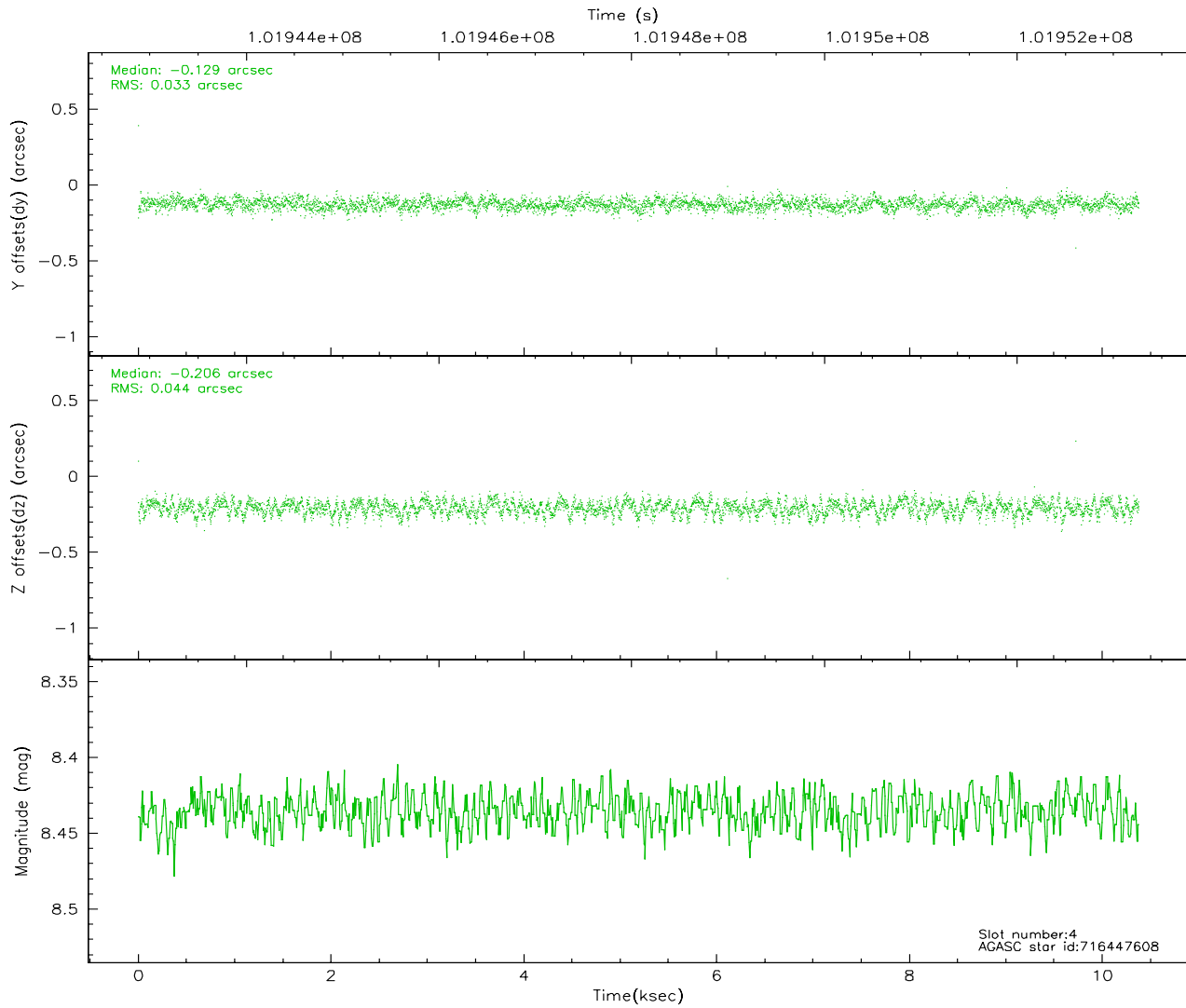
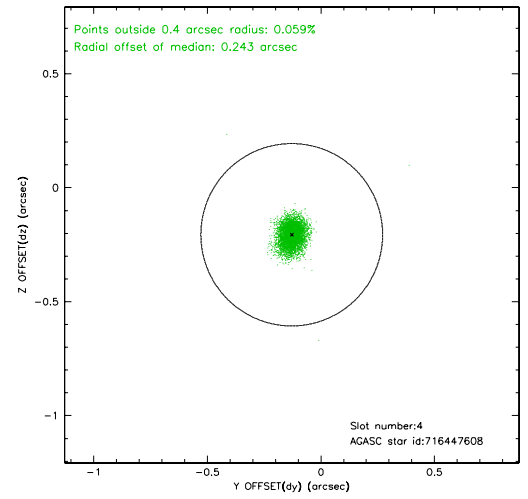
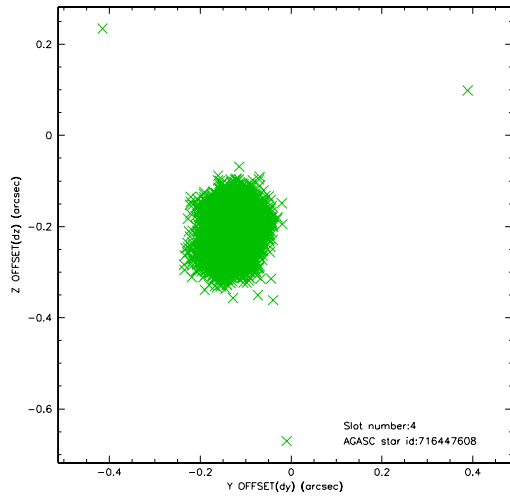
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.12	2532	-0.004	0.034	0.007	0.012	0.000000	0.000000	-755.94	-1727.59
1	FID	ACIS-S-4	7.20	2533	-0.079	-0.007	0.005	0.010	0.000000	0.000000	2157.00	180.37
2	FID	ACIS-S-5	7.23	2533	0.052	-0.018	0.006	0.011	0.000000	0.000000	-1808.10	174.56
3	GUIDE	716447528	6.96	5066	-0.152	-0.103	0.059	0.095	139.371683	-11.961966	-489.76	-397.04
4	GUIDE	716447608	8.44	5064	-0.129	-0.206	0.057	0.093	139.107687	-11.923612	-769.60	-1294.65
5	GUIDE	716578656	9.09	5065	0.189	-0.017	0.079	0.133	140.216745	-12.561448	2106.17	2202.41
6	GUIDE	716578888	9.26	5061	-0.029	-0.057	0.082	0.135	139.858876	-11.605741	-1489.26	1498.90
7	GUIDE	716454552	9.01	5061	0.116	0.385	0.069	0.112	139.524204	-12.319370	864.44	-65.12

2.4 Star Slots

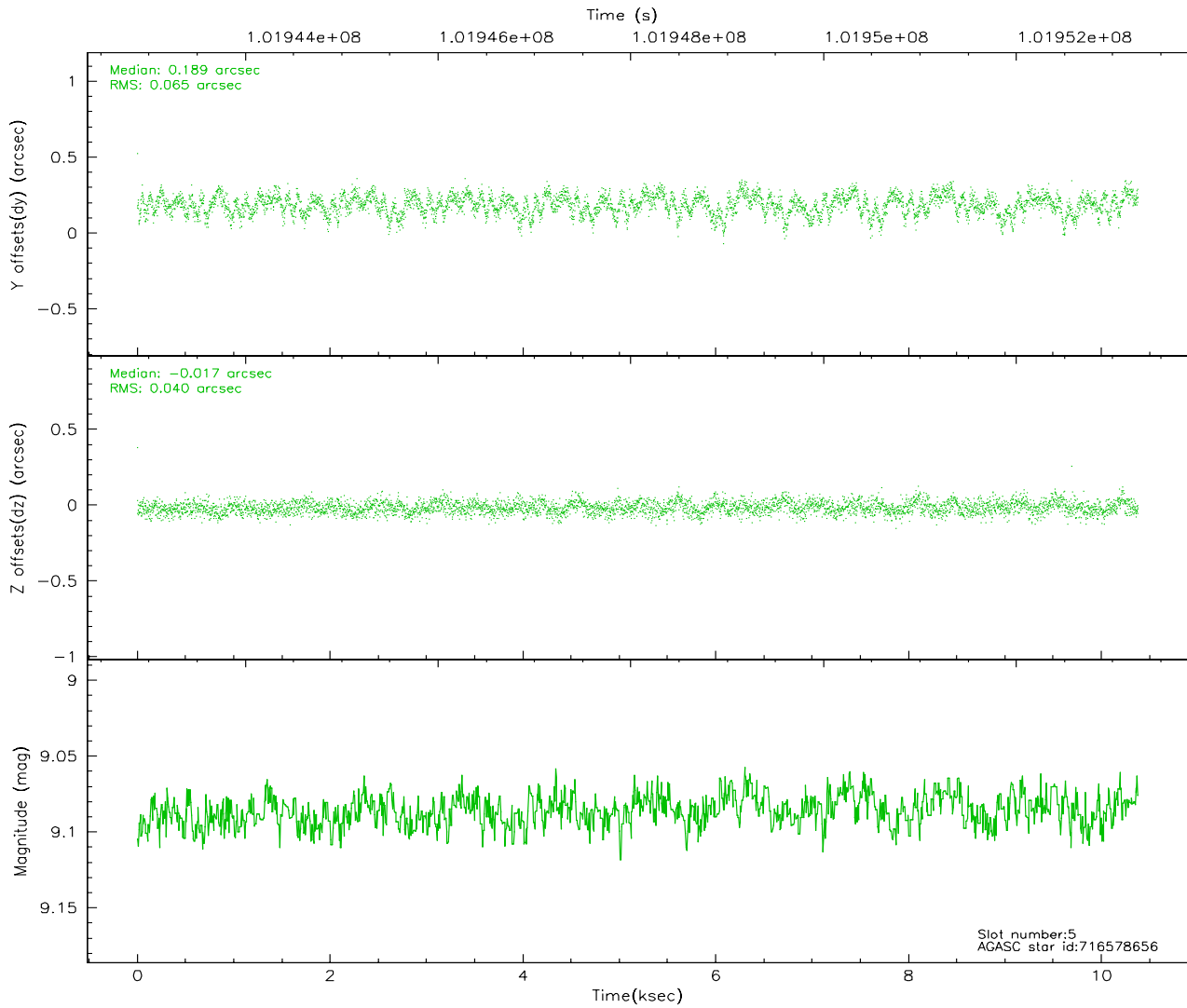
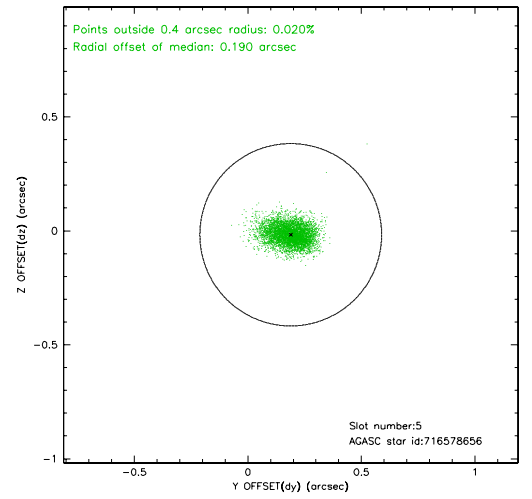
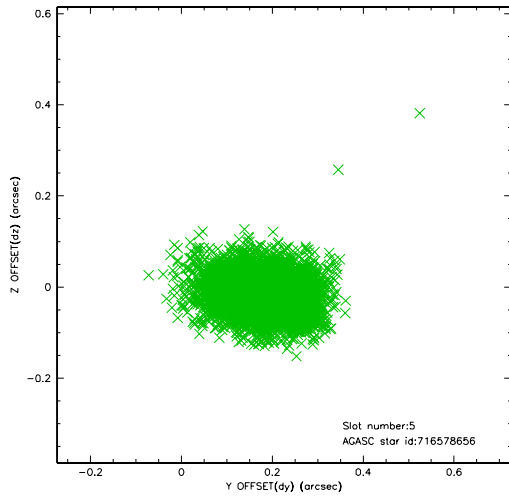
2.4.1 Slot 3



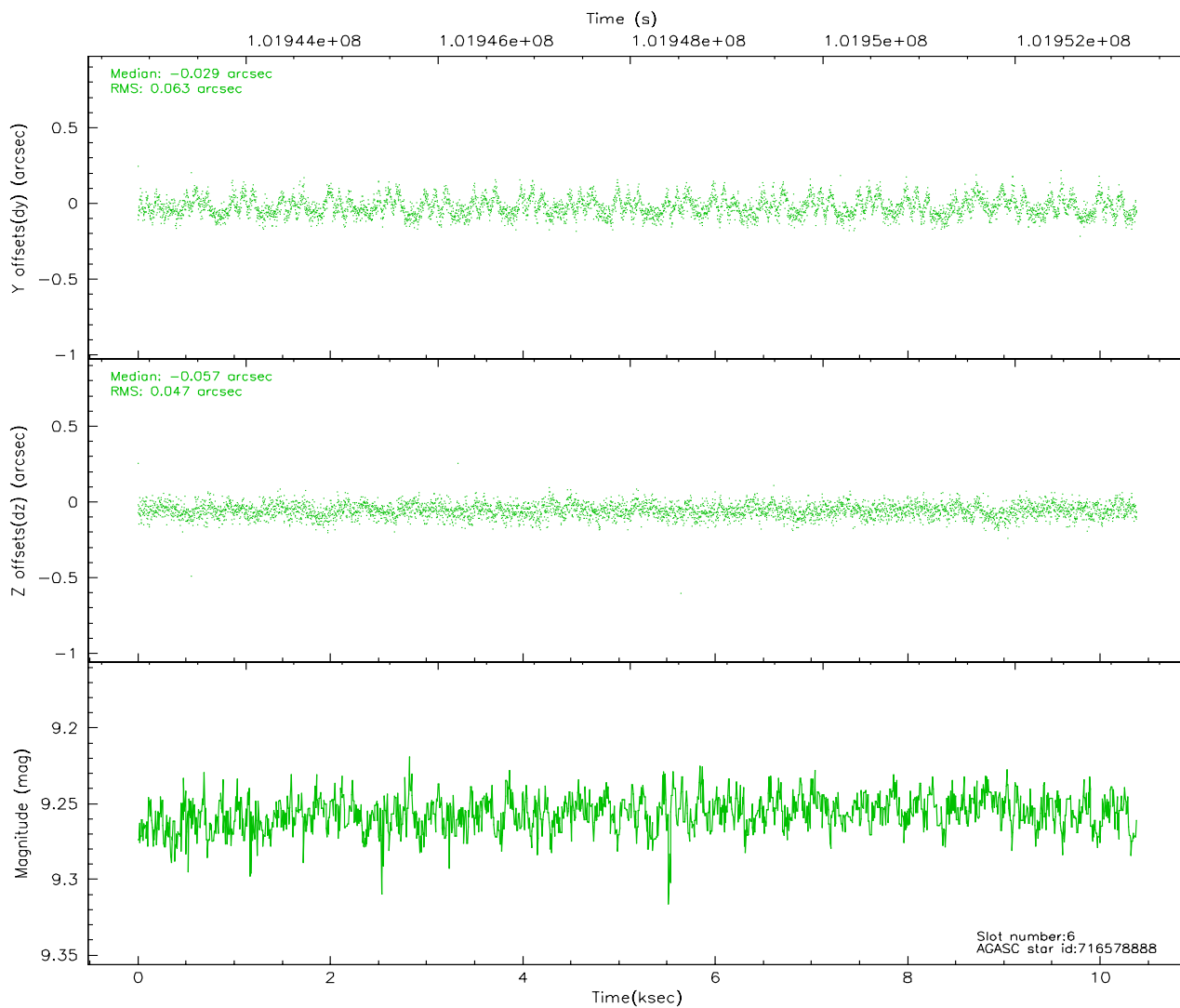
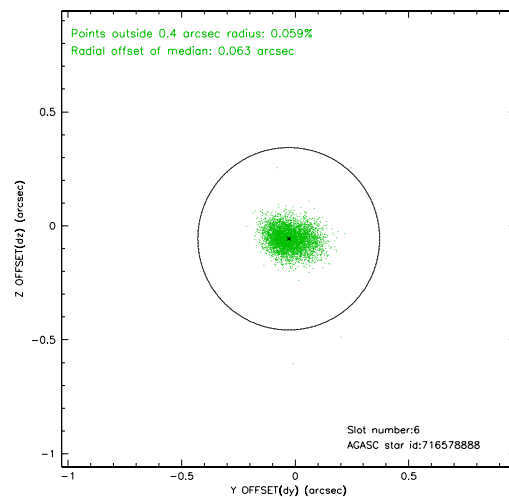
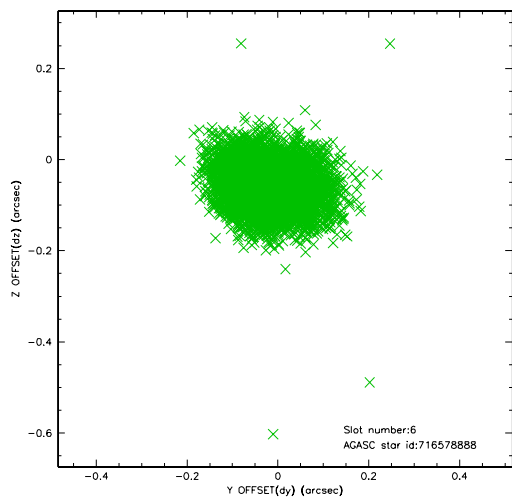
2.4.2 Slot 4



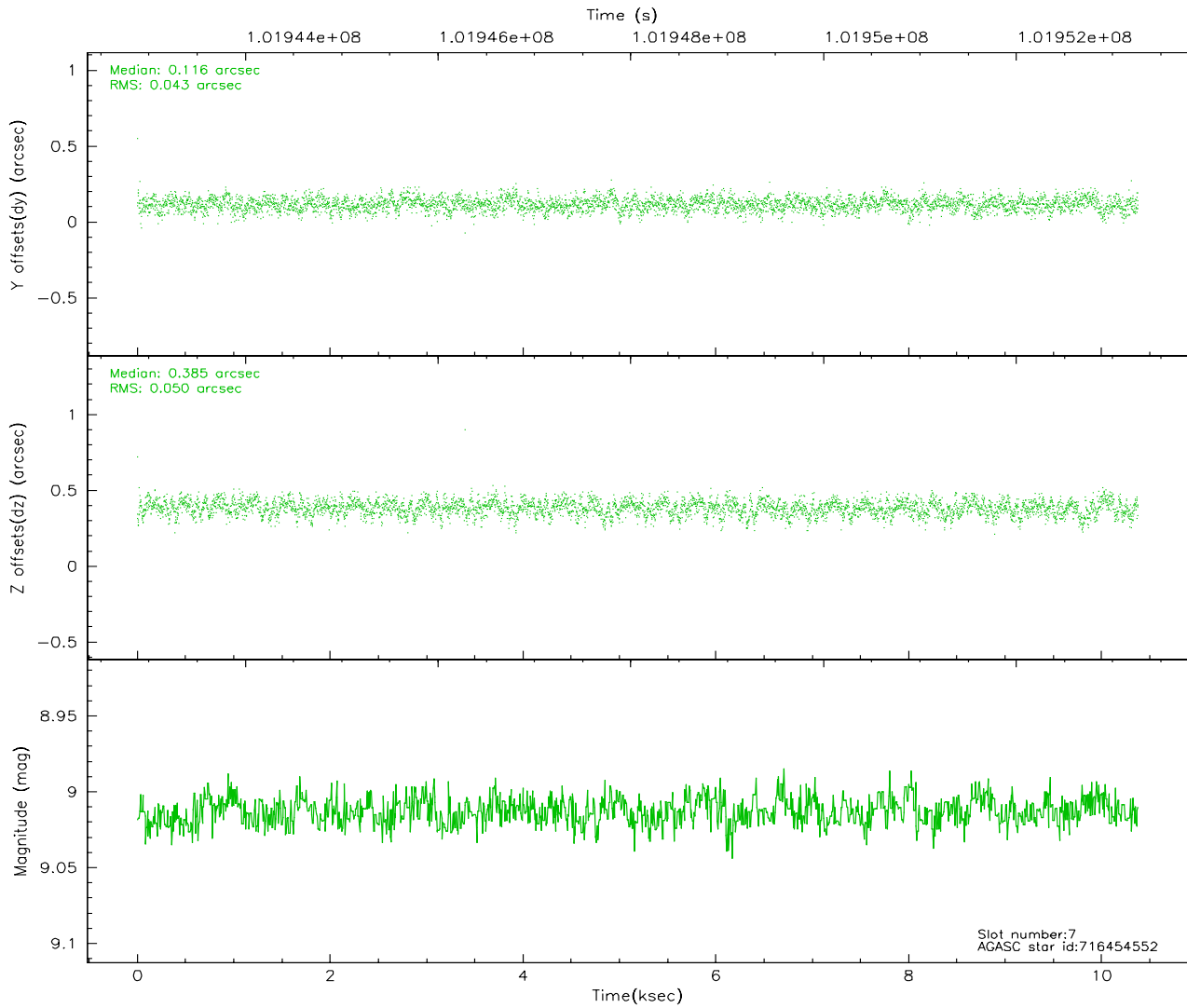
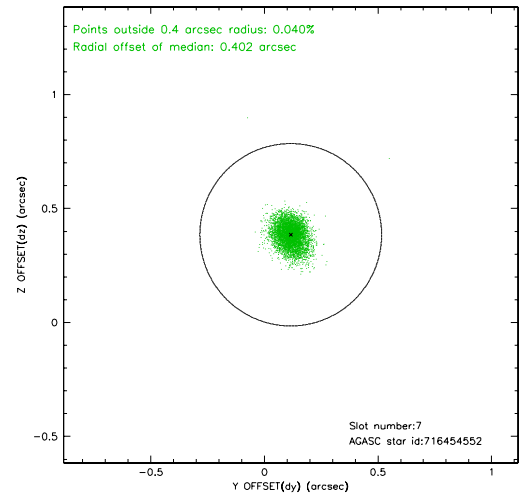
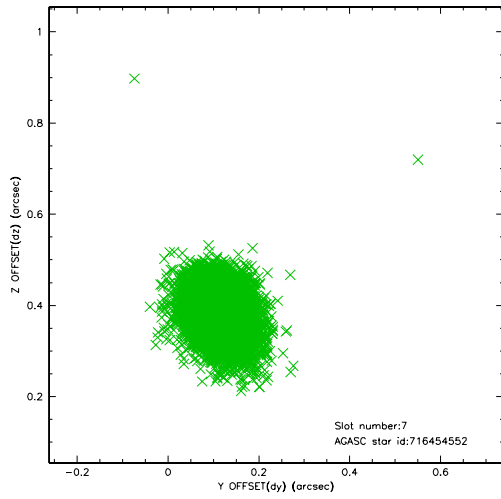
2.4.3 Slot 5



2.4.4 Slot 6

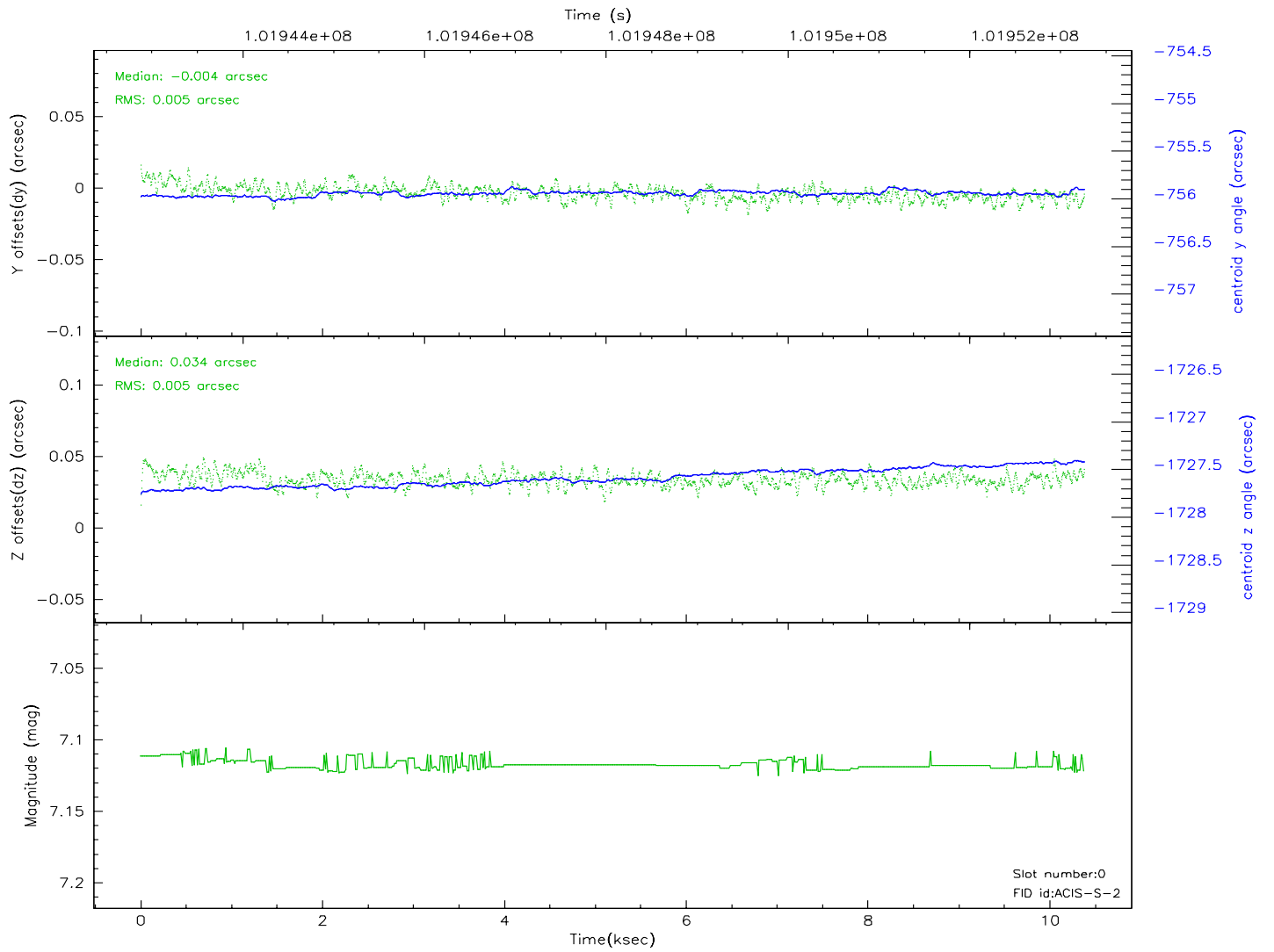
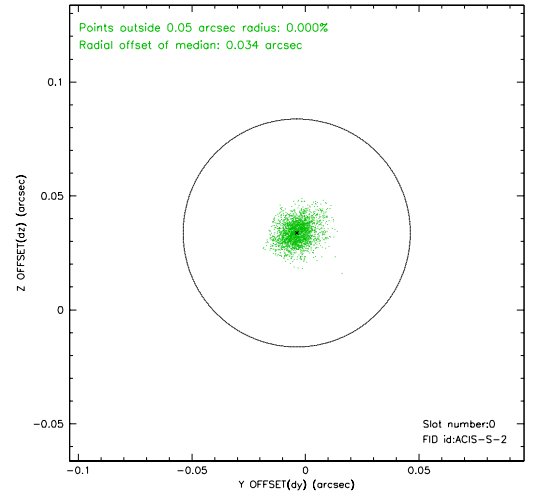
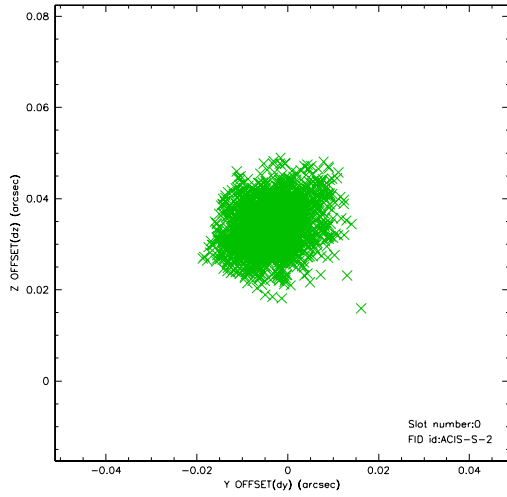


2.4.5 Slot 7

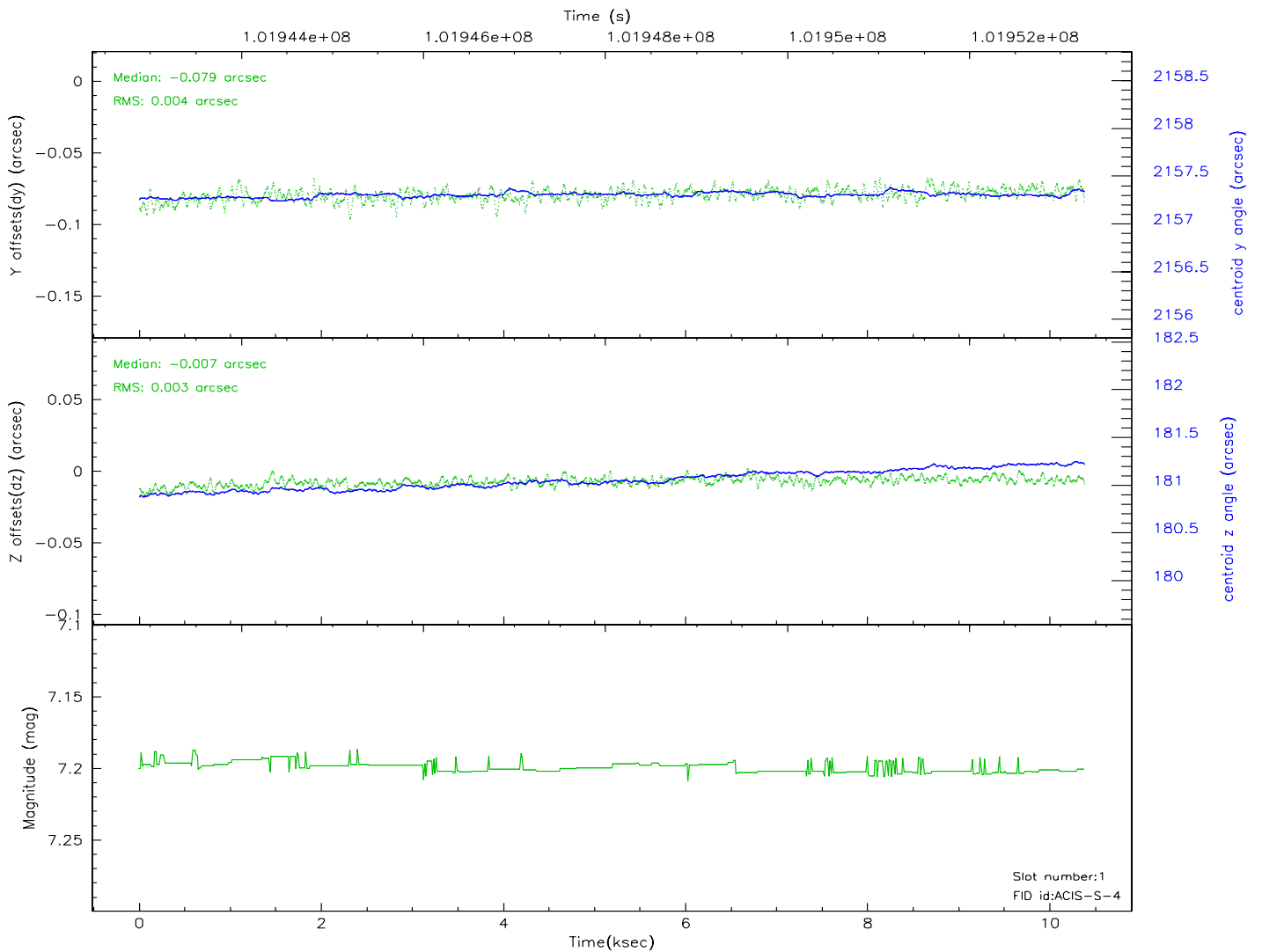
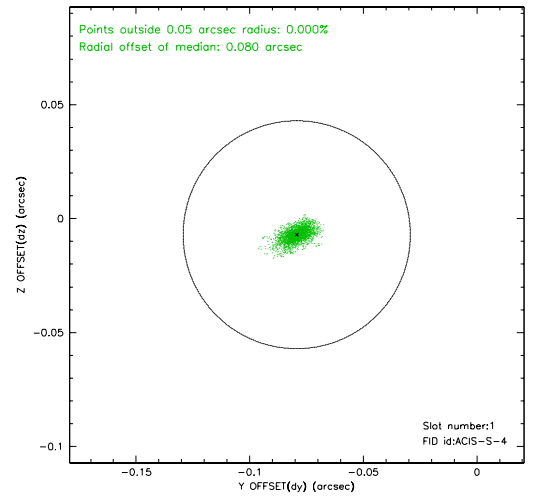
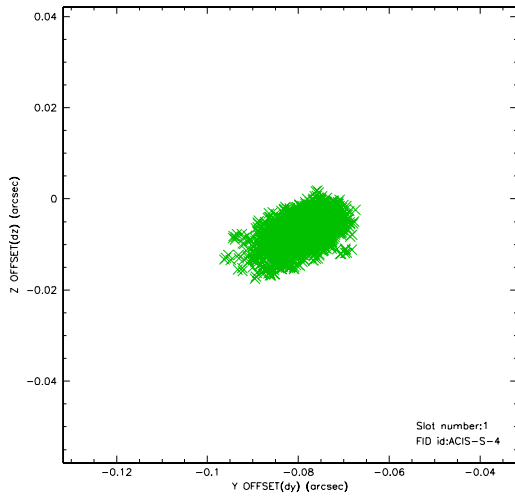


2.5 FID Slots

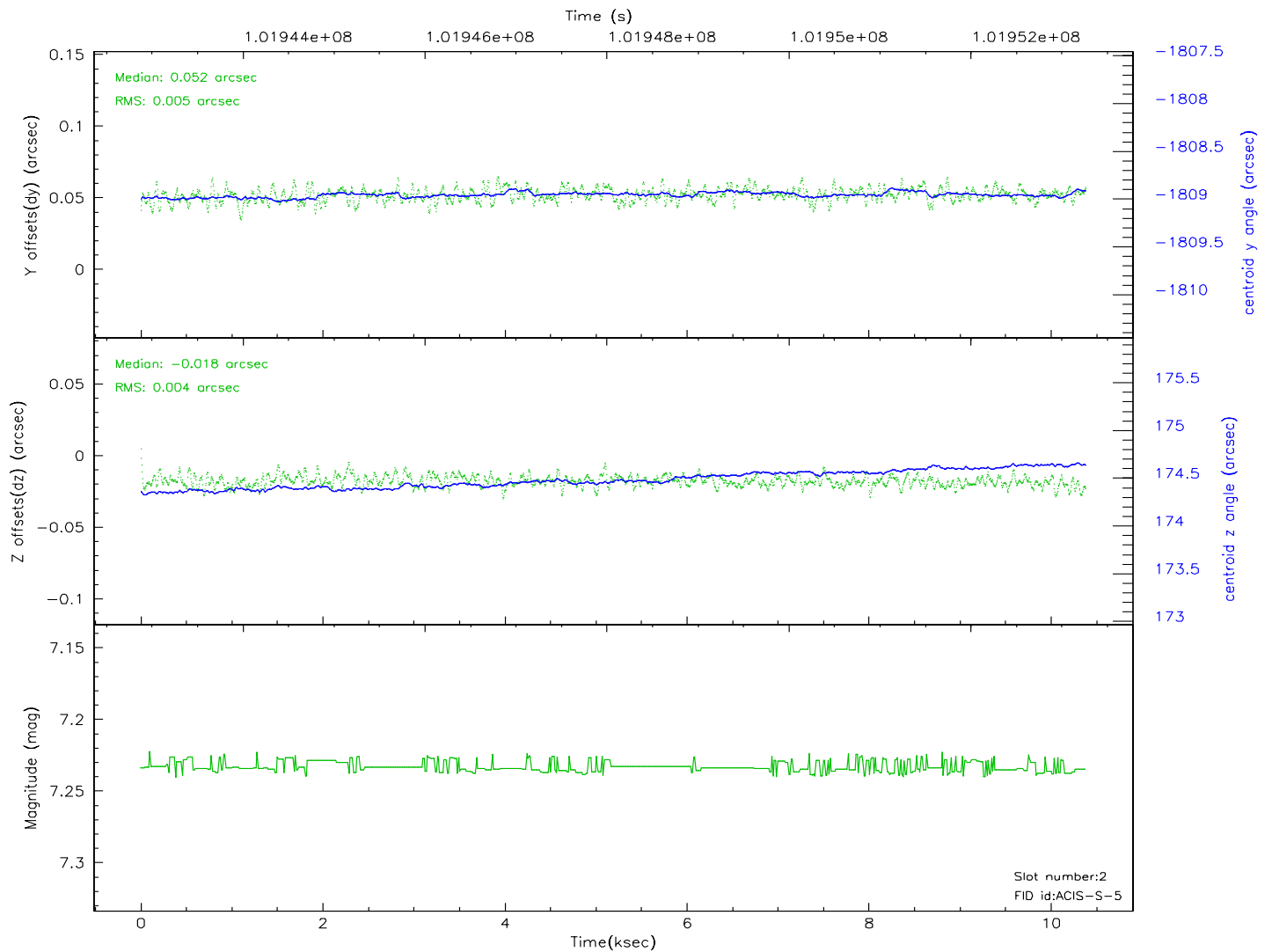
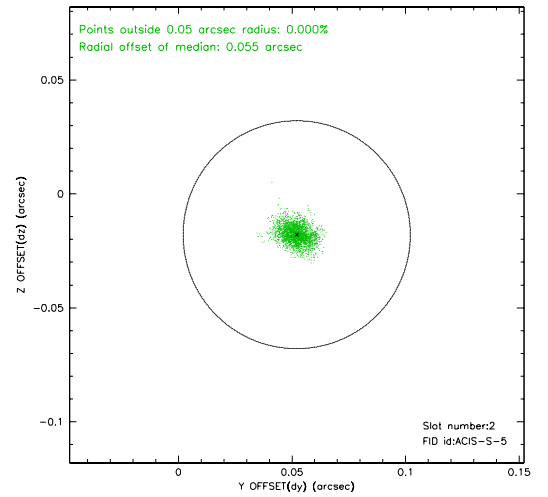
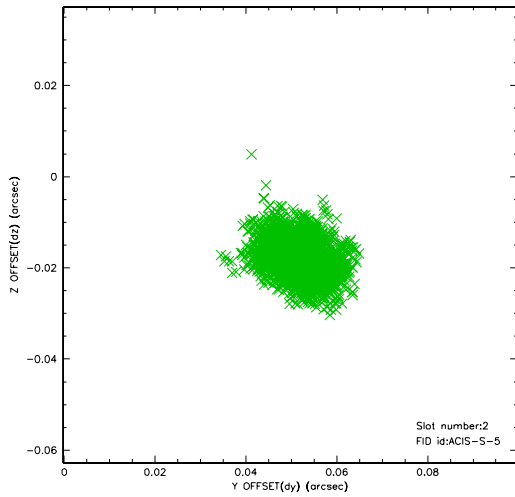
2.5.1 Slot 0



2.5.2 Slot 1

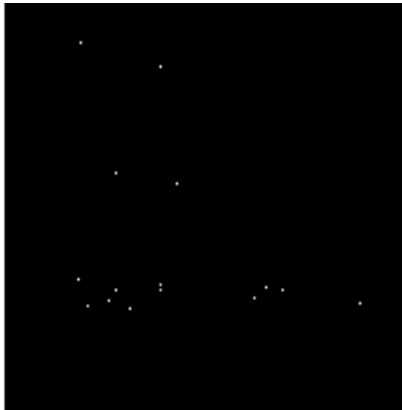


2.5.3 Slot 2

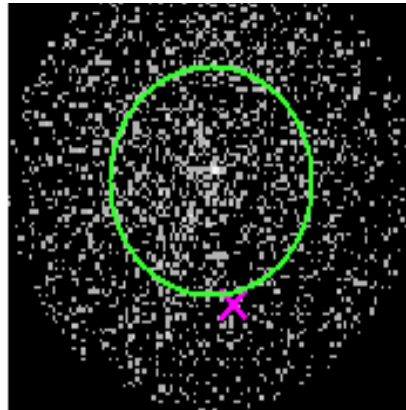


3 Gratings

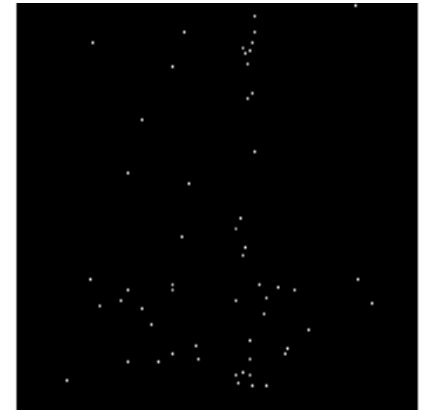
3.1 HEG Arm



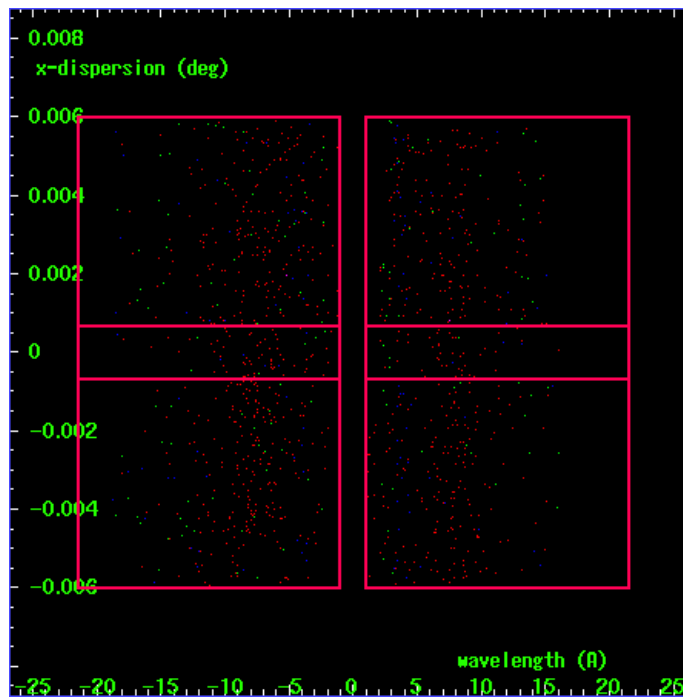
HEG Order Sort 123



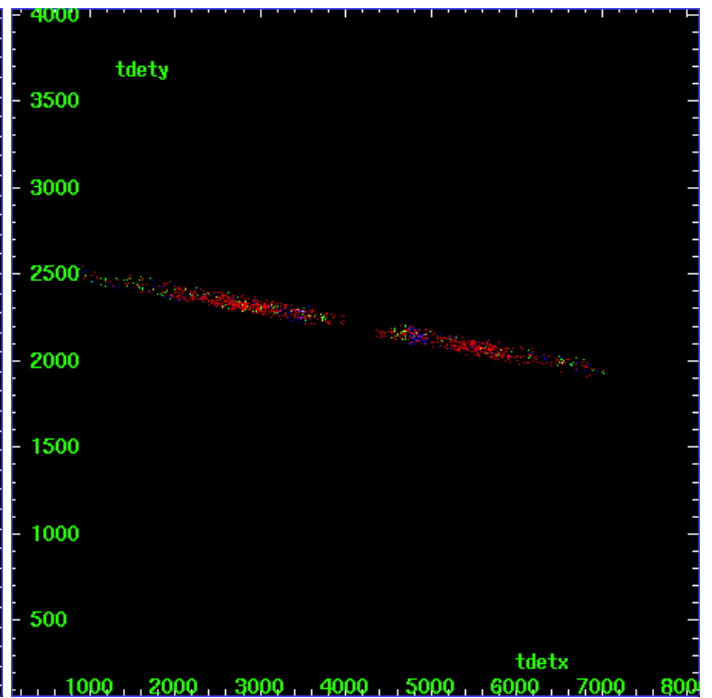
HEG Zero Order



HEG Order Sort ALL

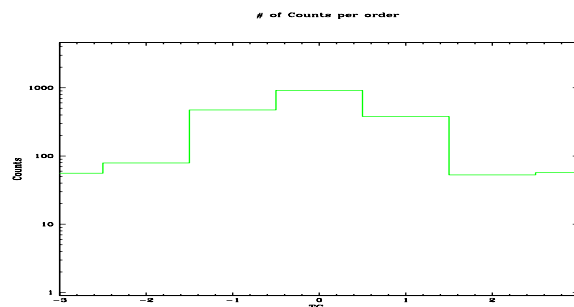


Spot Image HEG

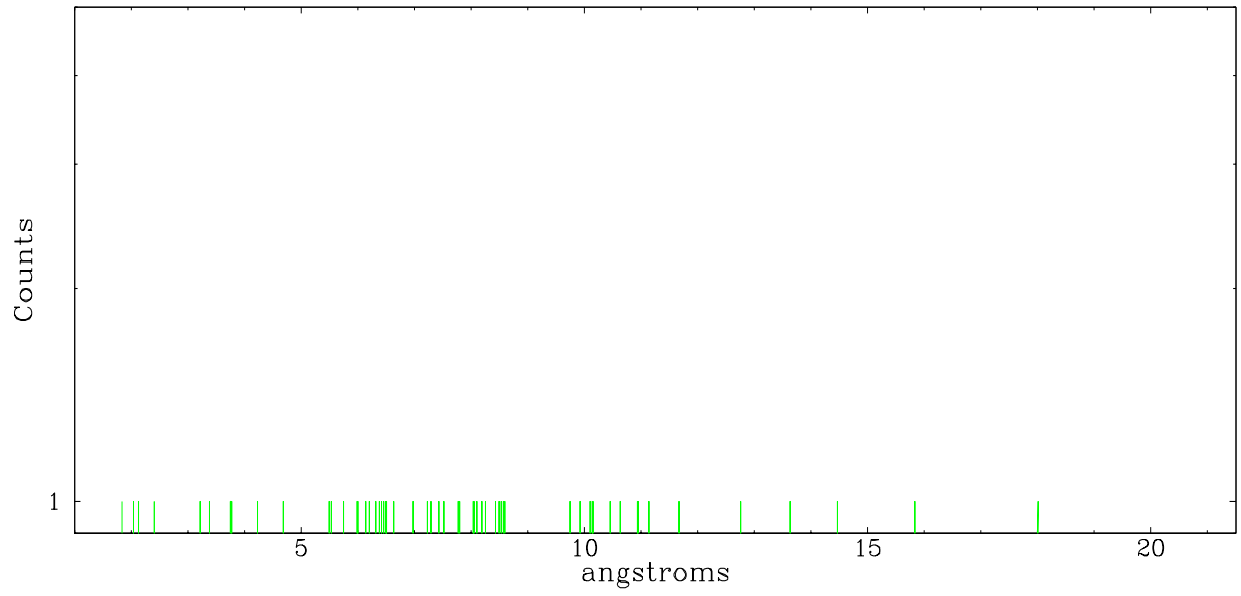


Full Detector HEG

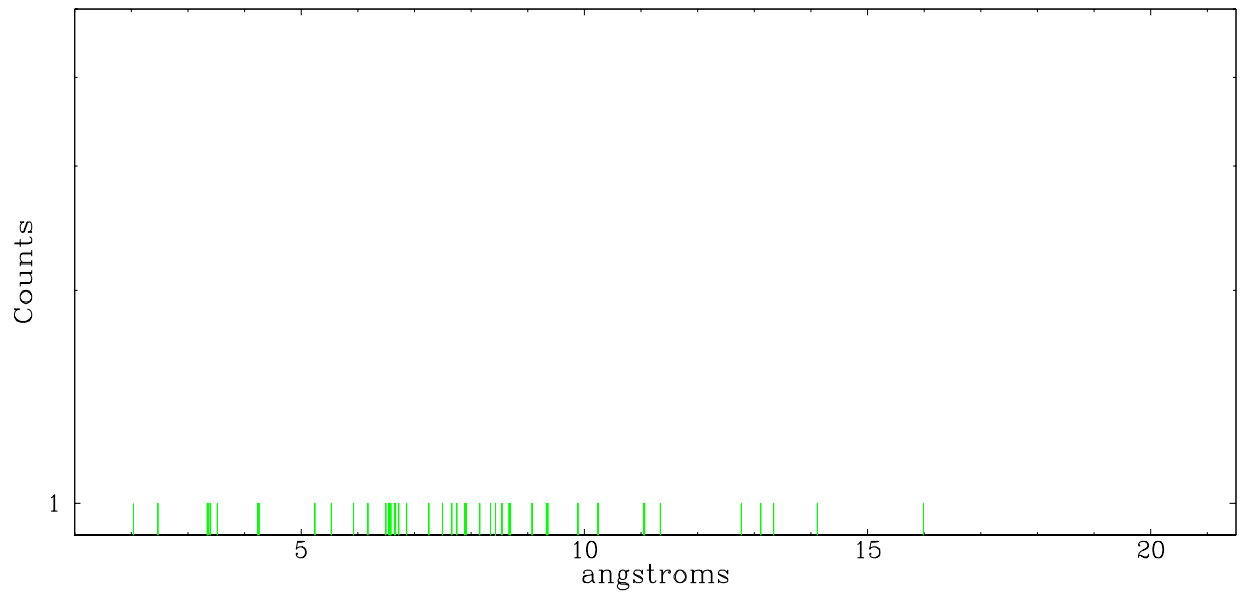
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	56	79	473	918	381	53	57



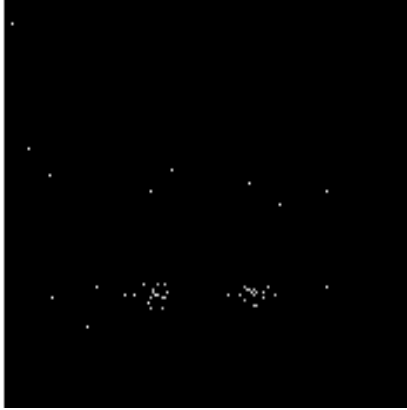
heg order -1



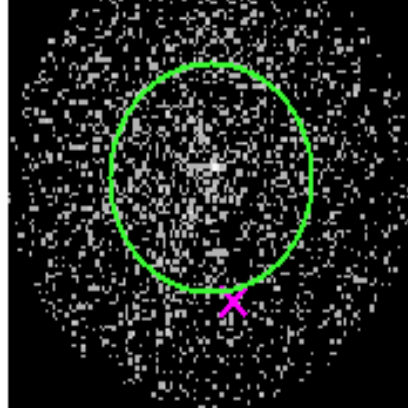
heg order +1



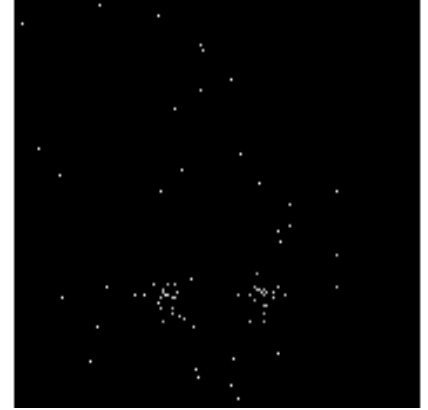
3.2 MEG Arm



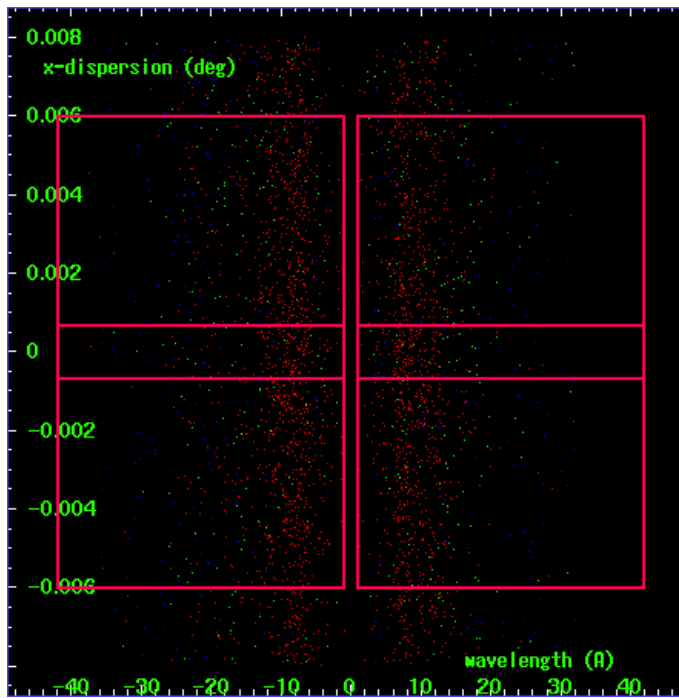
MEG Order Sort 123



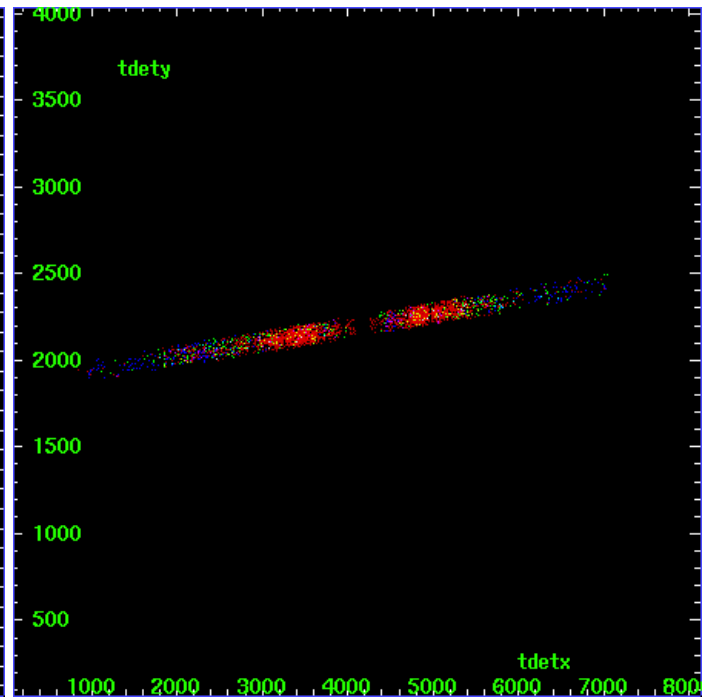
MEG Zero Order



MEG Order Sort ALL

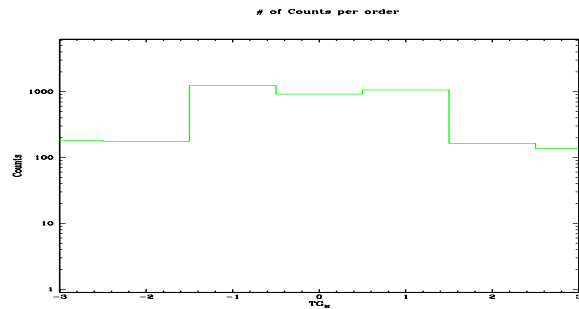


Spot Image MEG

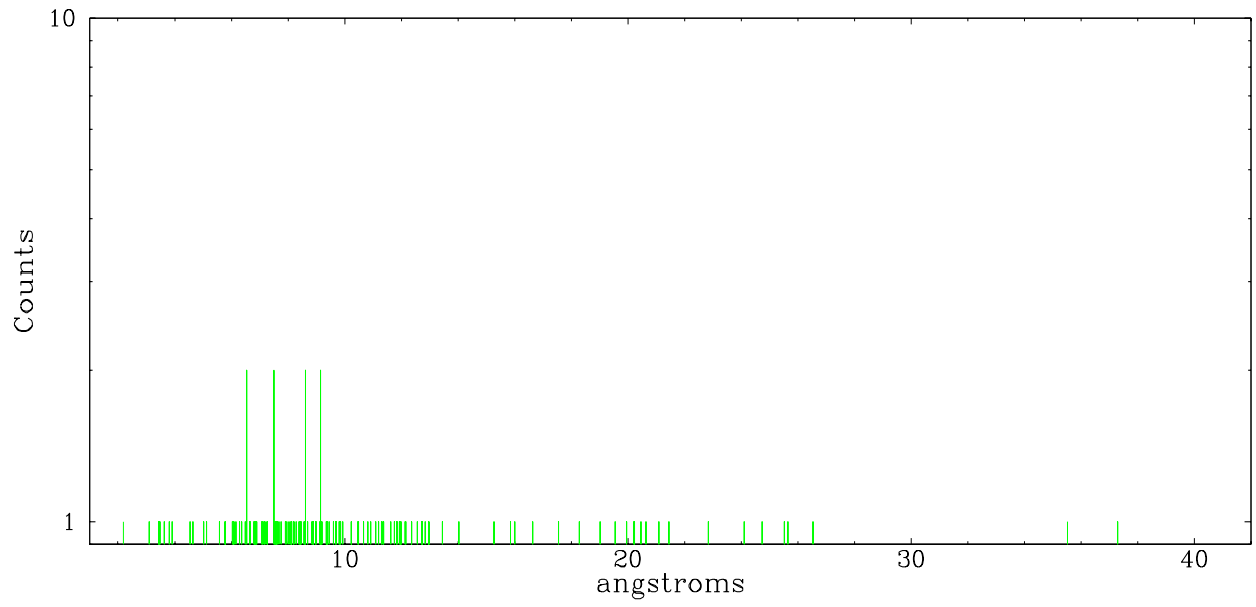


Full Detector MEG

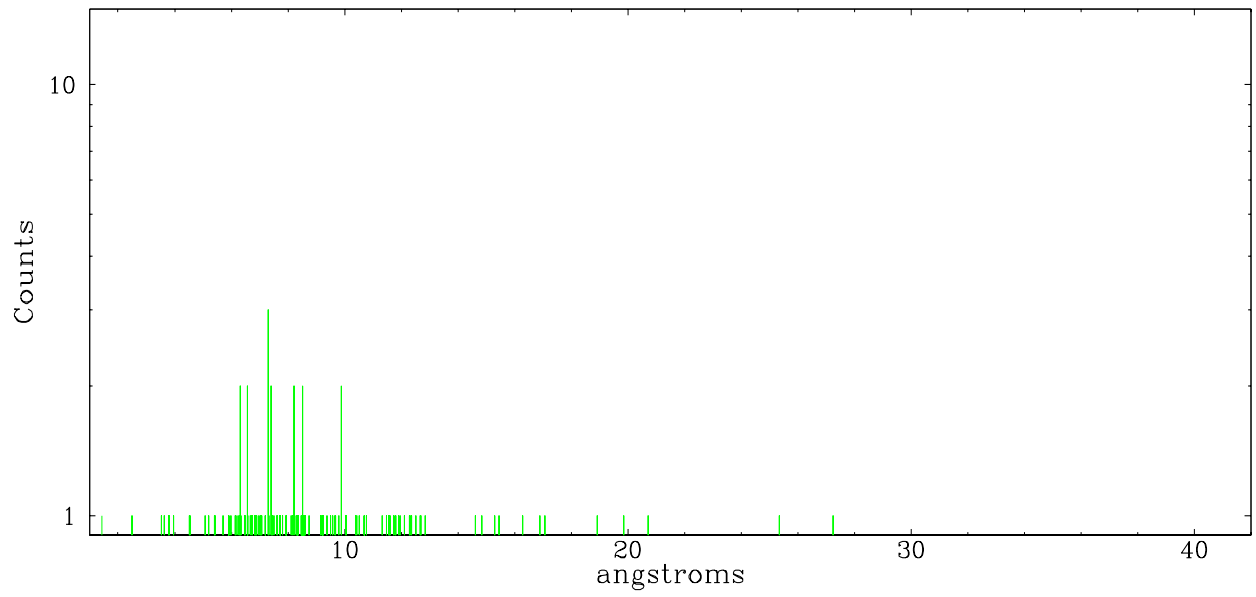
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	181	175	1246	918	1059	164	137



meg order -1



meg order +1



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2007.01.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	9.878

A.2 Comments

Standard software processing technique using the tool `tgdetect` failed to determine an accurate position for the zeroth order for this observation. The source is extended and asymmetric. The processing software defaulted to the coordinates supplied by the user as the position of the zeroth order for the grating spectral extraction. For grating analysis of localized X-ray emission within the extended emission, the investigator will need to extract one or more dispersed spectra using user-defined zeroth order positions for all positions of interest.

Coordinates used as zeroth order position for extracting dispersed spectra in this processing:

ra=09:18:05.699, dec=-12:05:45.00