

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 690 - L2 Version 6
Chandra X-Ray Center

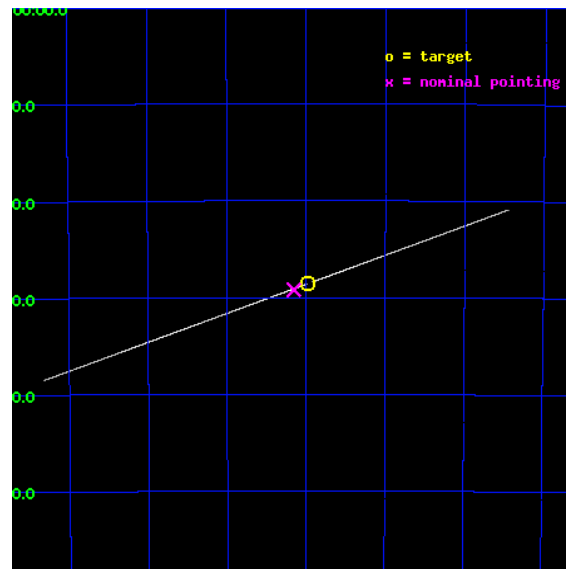
L2 Processing Date : Oct 11 2012

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1 Front

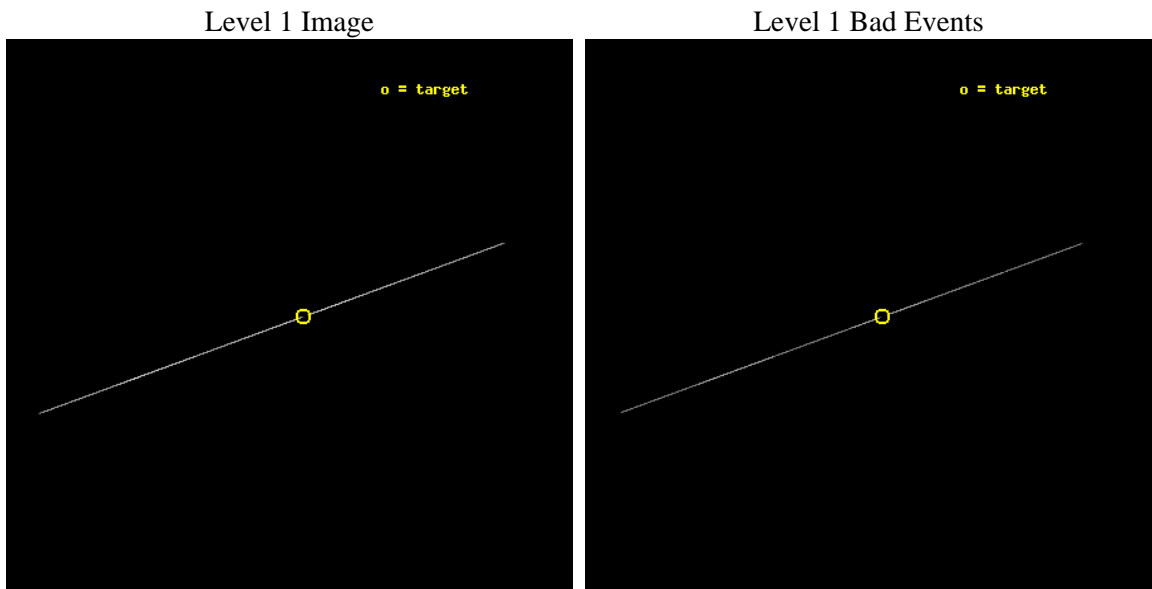
seq_num	400057	Sequence number
obs_id	690	Observation id
title	AXAF OBSERVATIONS OF A BRIGHT BLACK HOLE X-RAY BINARY IN OUTBURST	
observer	Prof. Walter Lewin	Principal investigator
object	XTE J1550-564 (OUTBURST DECAY)	Source name
ra_targ	237.745417	Observer's specified target RA [deg]
dec_targ	-56.476472	Observer's specified target Dec [deg]
ra_nom	237.7883105081	Nominal RA [deg]
dec_nom	-56.48690129862	Nominal Dec [deg]
roll_nom	340.03613186068	Nominal Roll [deg]
revision	6	Processing version of data
ontime	2609.0	Sum of GTIs [s]
livetime	2598.80859375	Livetime [s]
ontime4	2609.0	Sum of GTIs [s]
ontime5	2609.0	Sum of GTIs [s]
ontime6	2609.0	Sum of GTIs [s]
ontime7	2609.0	Sum of GTIs [s]
ontime8	2609.0	Sum of GTIs [s]
ontime9	2609.0	Sum of GTIs [s]
l2events	44267	Number of level 2 events



2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Parameters

obi_num	0	Obi number	sched_exp_time	2445.661000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	2609.0	Sum of GTIs [s]
caldsver	4.5.1.1	 	ontime4	2609.0	Sum of GTIs [s]
date	2012-08-28T18:41:49	Date and time of file creation	ontime5	2609.0	Sum of GTIs [s]
revision	5	Processing version of data	ontime6	2609.0	Sum of GTIs [s]
			ontime7	2609.0	Sum of GTIs [s]
			ontime8	2609.0	Sum of GTIs [s]
			ontime9	2609.0	Sum of GTIs [s]
			l1events	97240	Number of level 1 events

2.1.3 Events

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	7745	30507	12110	23841	14974	8063
rejected events	3764	14291	4207	10826	5788	3908
rejected %	48%	46%	34%	45%	38%	48%

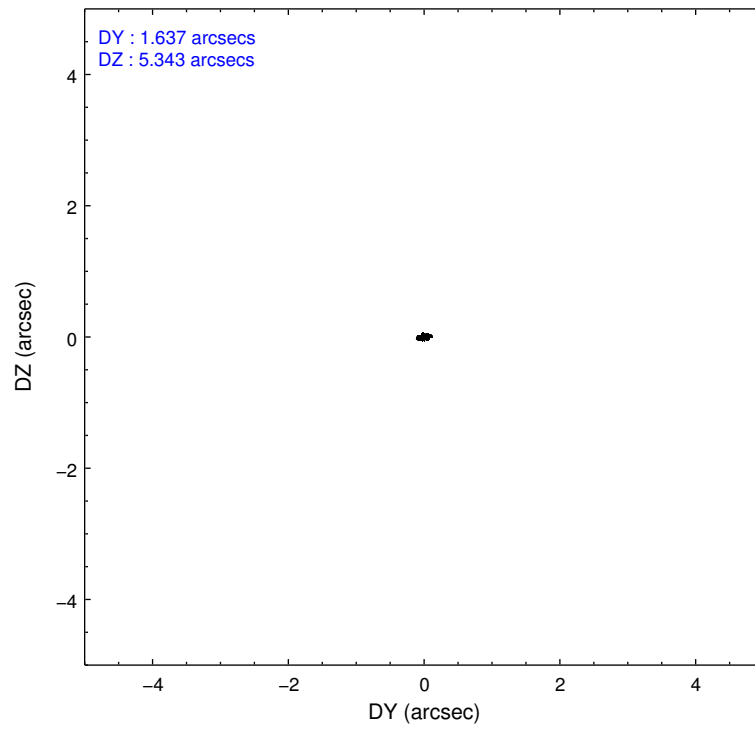
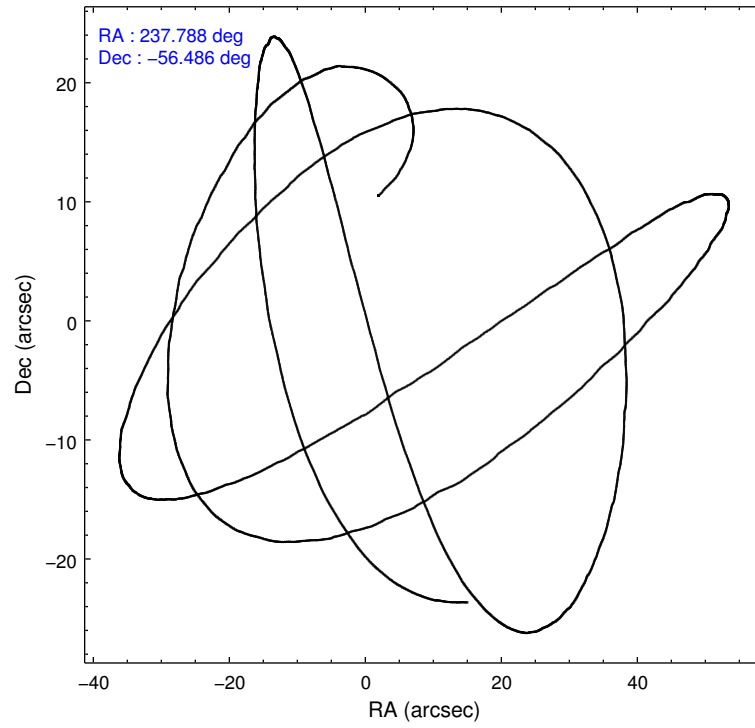
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	633	6842	767	1694	1838	868
	8%	22%	6%	7%	12%	10%
grade 1 events	15	19	10	25	28	17
	0%	0%	0%	0%	0%	0%
grade 2 events	3566	7935	7332	5936	6960	3370
	46%	26%	60%	24%	46%	41%
grade 3 events	794	573	750	1140	1149	741
	10%	1%	6%	4%	7%	9%
grade 4 events	850	558	745	1121	1166	832
	10%	1%	6%	4%	7%	10%
grade 5 events	759	2061	950	2277	1273	943
	9%	6%	7%	9%	8%	11%
grade 6 events	1128	12519	1556	11648	2560	1292
	14%	41%	12%	48%	17%	16%
grade 7 events	0	0	0	0	0	0
	0%	0%	0%	0%	0%	0%

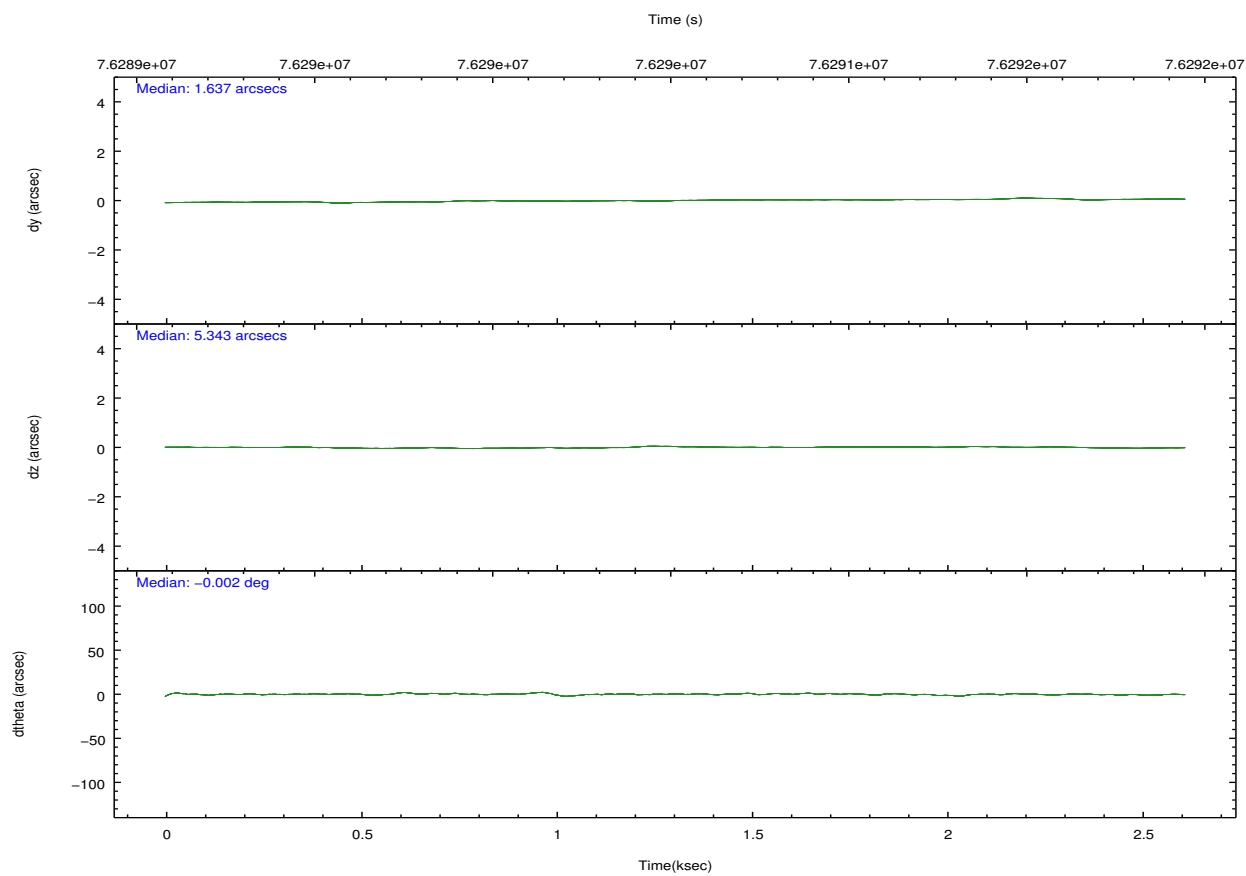
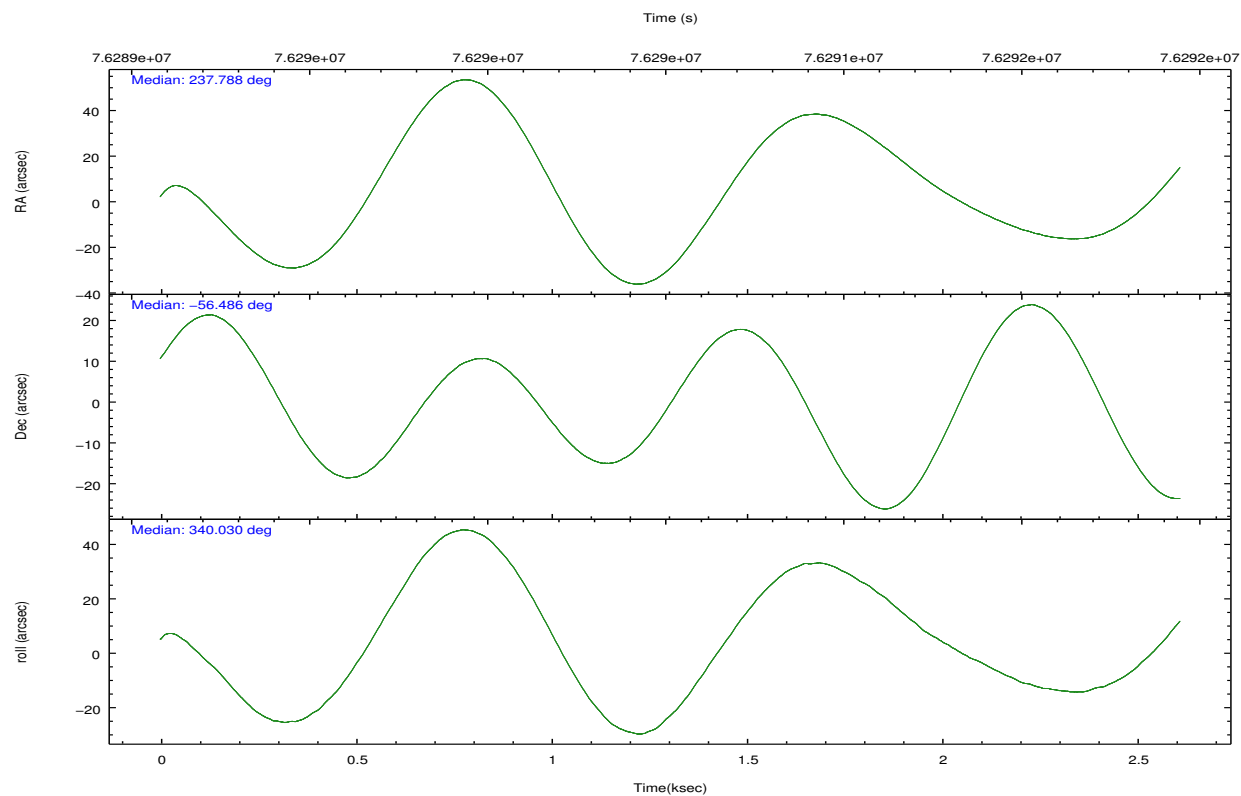
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-456789	ACIS-456789
Grating	HETG	HETG
Data mode	CC33_GRADED	CC33_GRADED
Observation mode	POINTING	POINTING
[deg] Pointing RA	237.740448	237.7883105080996
[deg] Pointing Dec	-56.492149	-56.48690129861984
[deg] Pointing Roll	339.839557	340.0361318606812
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-200.132523	-200.1369836888744
[mm] SIM translation stage offset	10	10.00446110586662
[s] Observation start time (MET)	76289374.184000	76287790.84730799
Observation start date	2000-06-01T23:28:30	2000-06-01T23:03:10
[s] Observation end time (MET)	76291819.184000	76292129.159968
Observation end date	2000-06-02T00:09:15	2000-06-02T00:15:29
Read mode	CONTINUOUS	CONTINUOUS

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	0

2.3 Aspect



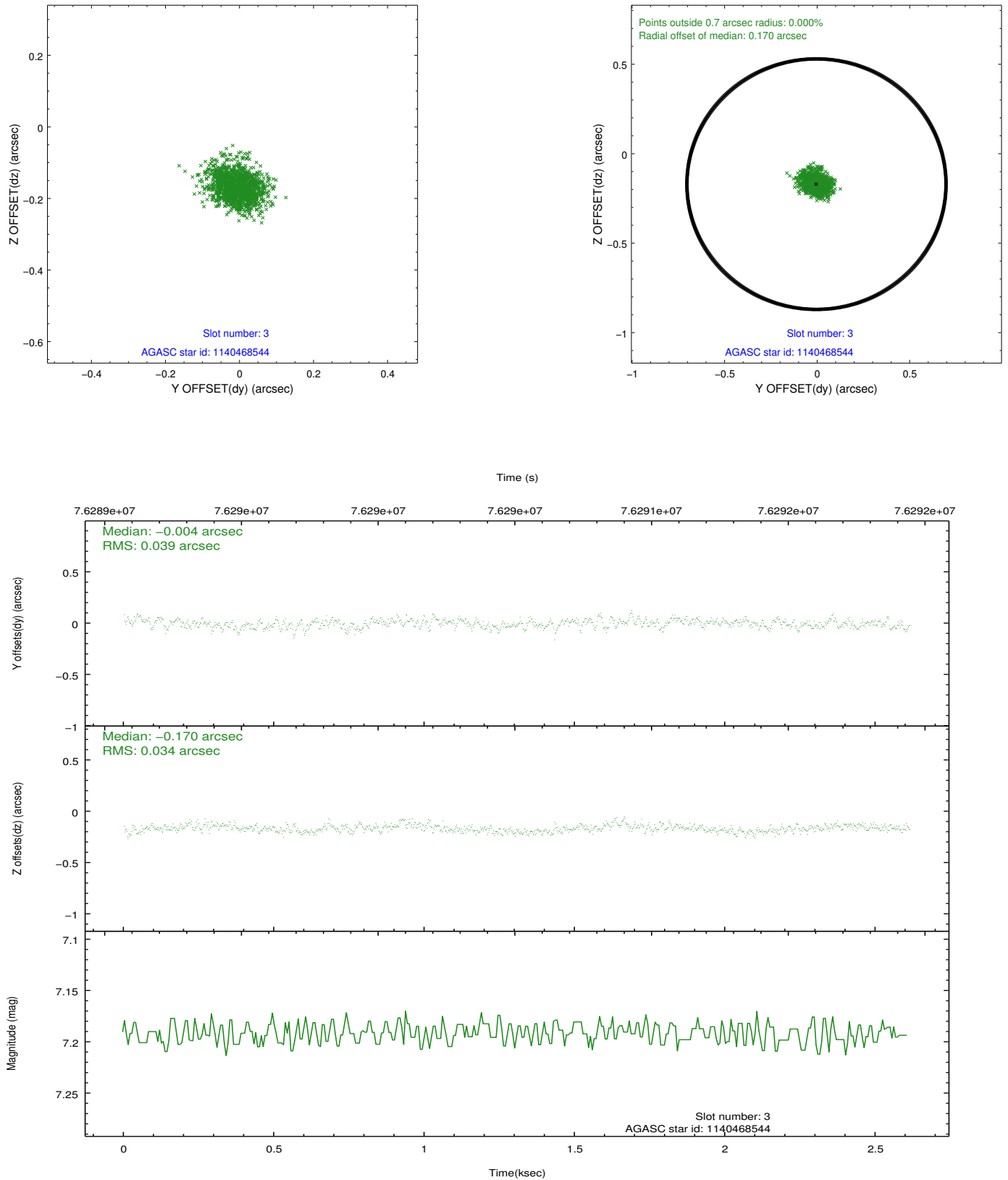


Slot Statistics

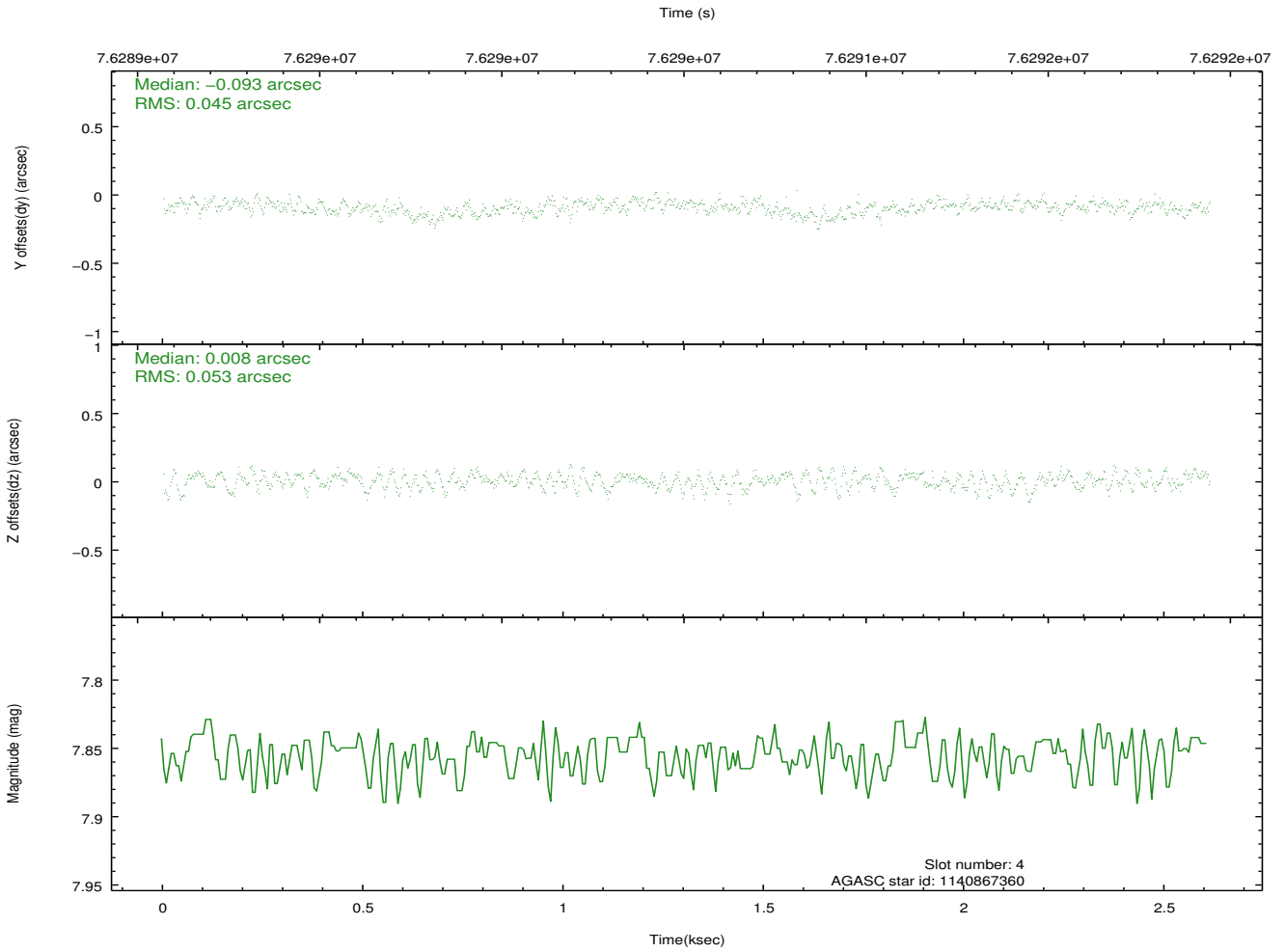
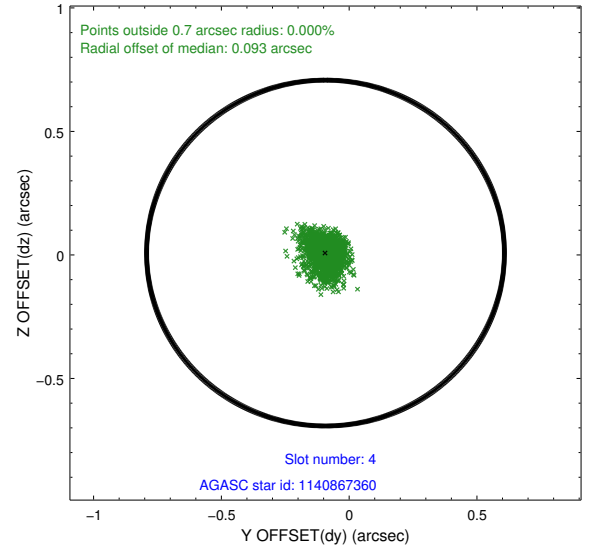
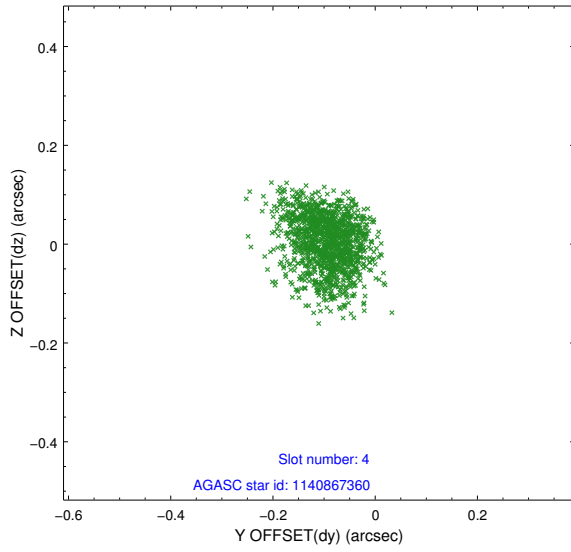
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.22	637	0.050	-0.169	0.008	0.021	0.000000	0.000000	941.13	-1516.09
1	FID	ACIS-S-5	7.23	637	0.074	0.051	0.007	0.012	0.000000	0.000000	-1806.32	379.67
2	FID	ACIS-S-6	7.32	637	-0.145	0.129	0.007	0.016	0.000000	0.000000	404.00	1026.35
3	GUIDE	1140468544	7.19	1275	-0.004	-0.170	0.055	0.094	237.524626	-55.920475	-1115.80	1779.21
4	GUIDE	1140867360	7.85	1275	-0.093	0.008	0.074	0.119	236.267708	-56.908841	-2188.11	-2435.60
5	GUIDE	1140999968	7.94	1275	0.074	0.054	0.063	0.104	238.471952	-56.275988	1107.35	1223.55
6	GUIDE	1140989920	8.89	1275	0.010	0.104	0.089	0.140	237.647305	-57.151120	650.18	-2290.42
7	GUIDE	1140468800	8.96	1272	0.016	0.014	0.082	0.134	238.884268	-56.158674	1747.99	1895.96

2.4 Star Slots

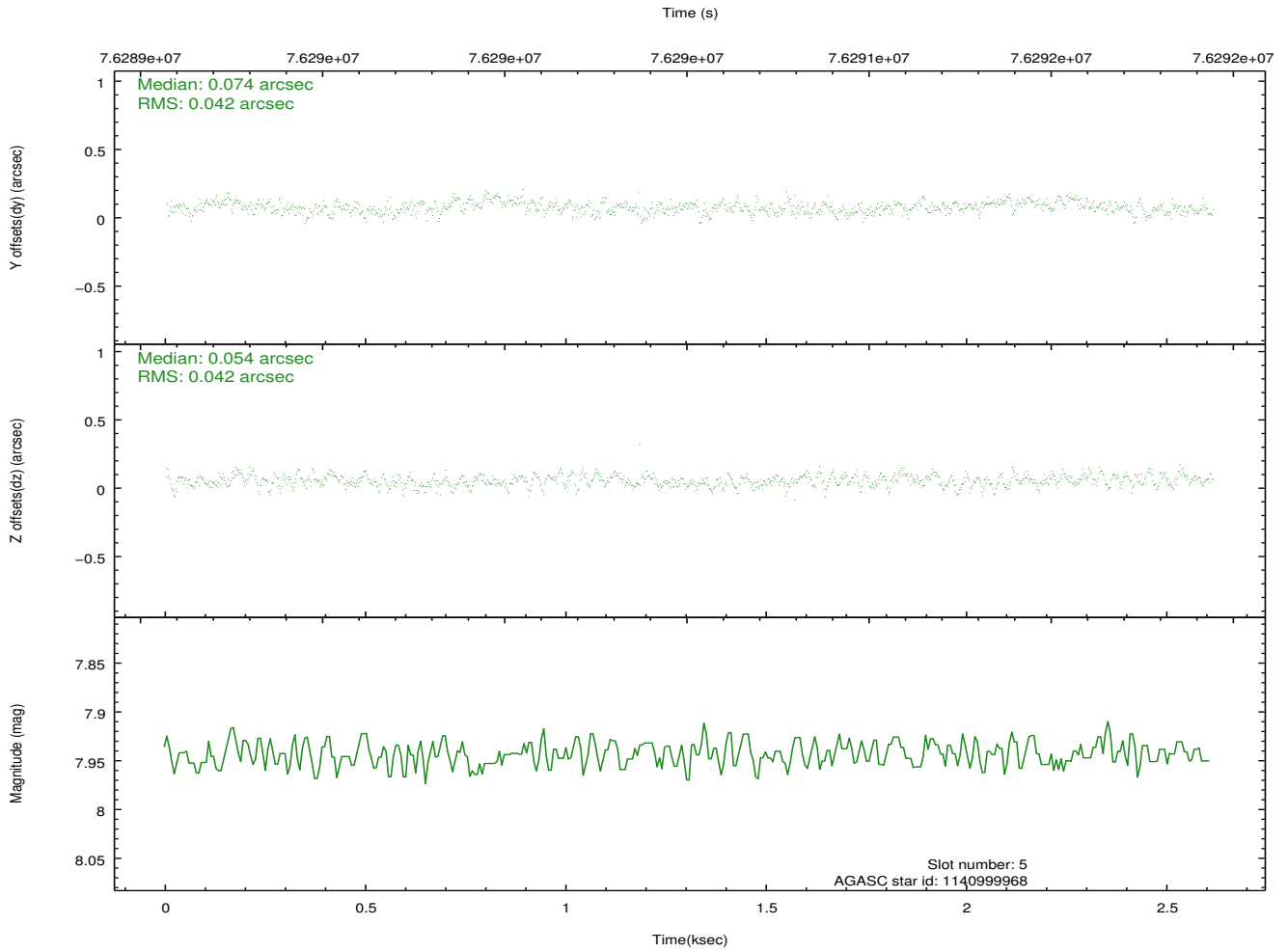
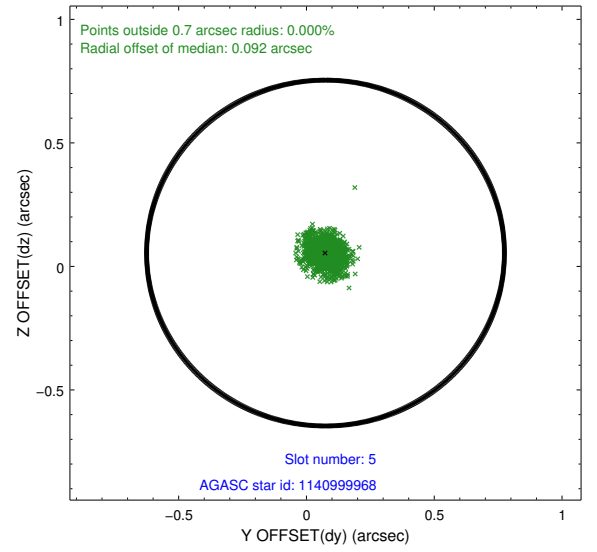
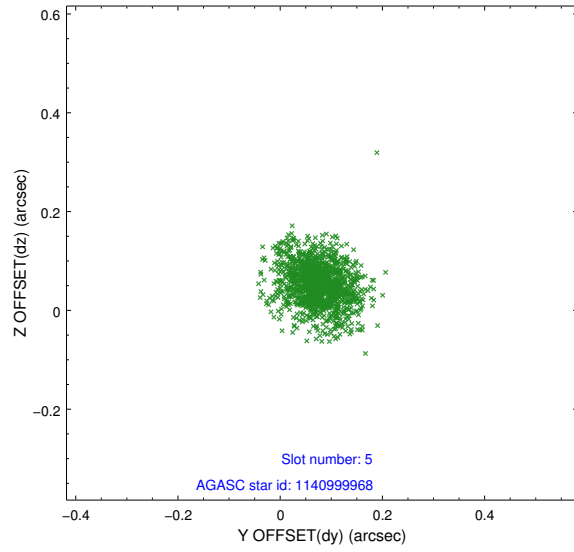
2.4.1 Slot 3



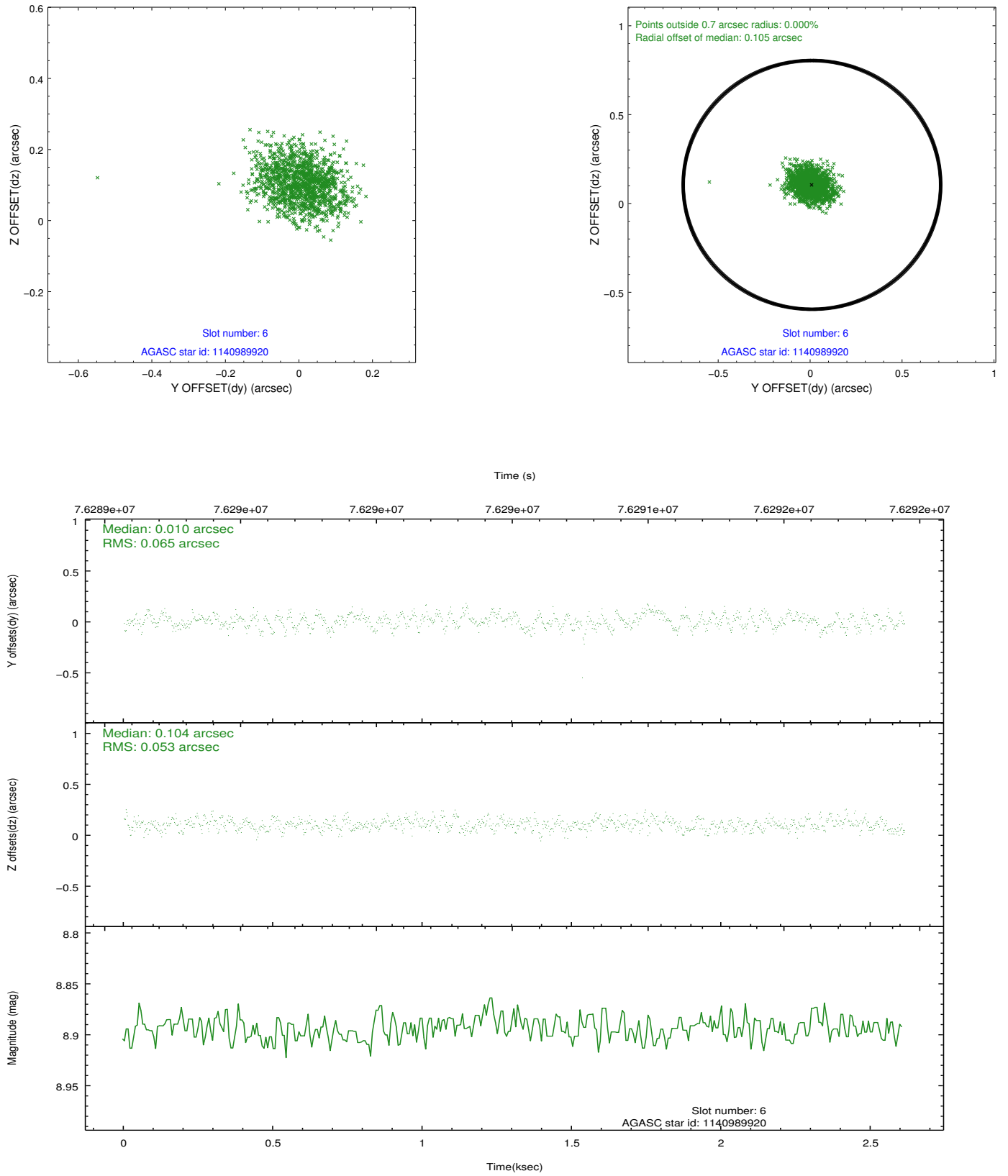
2.4.2 Slot 4



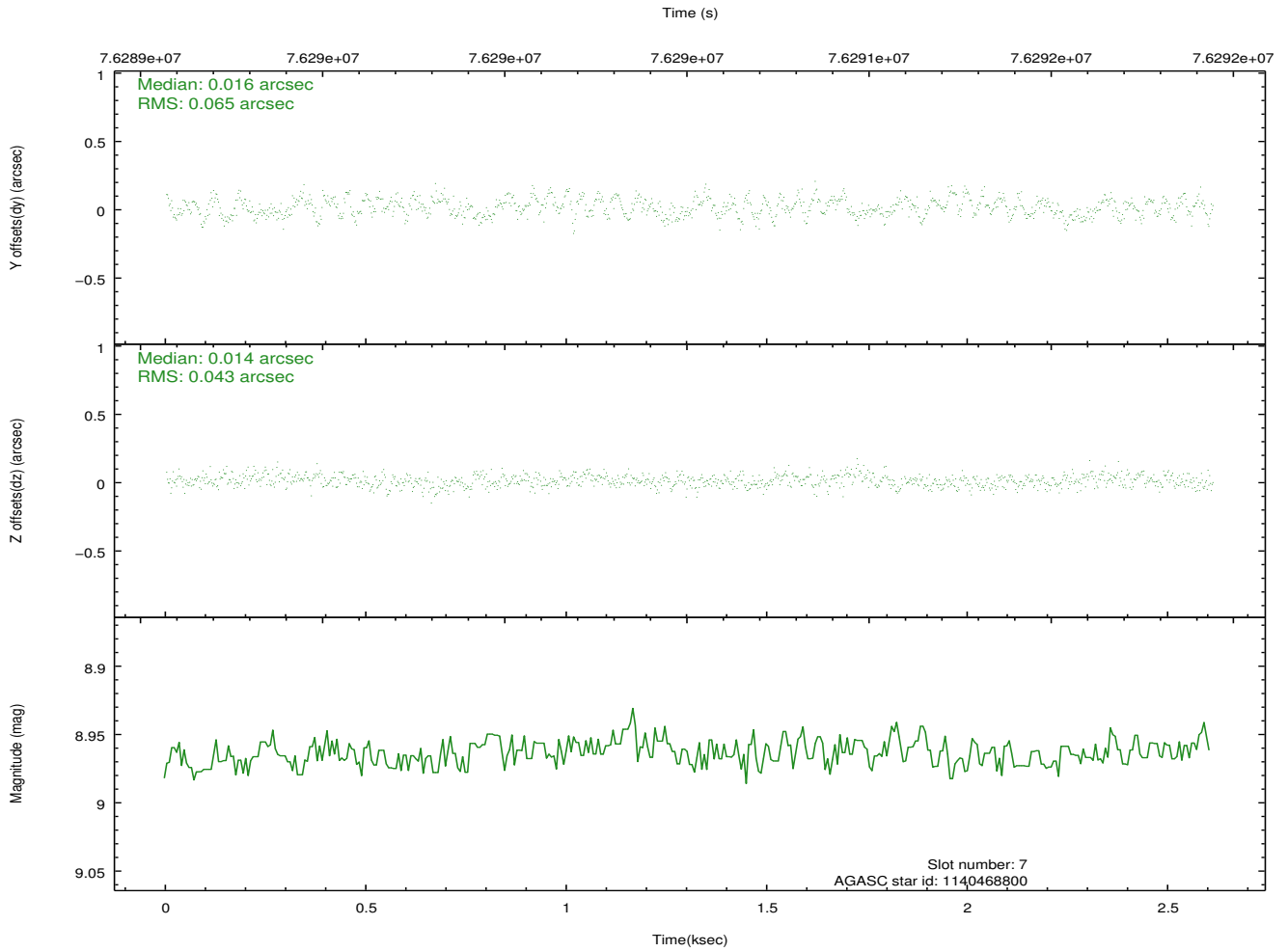
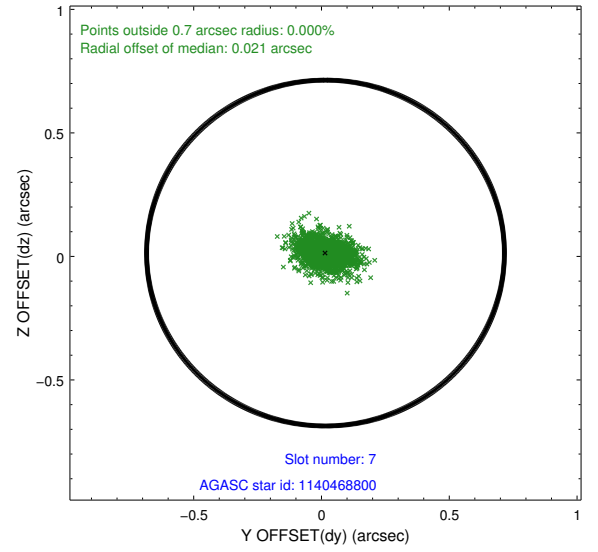
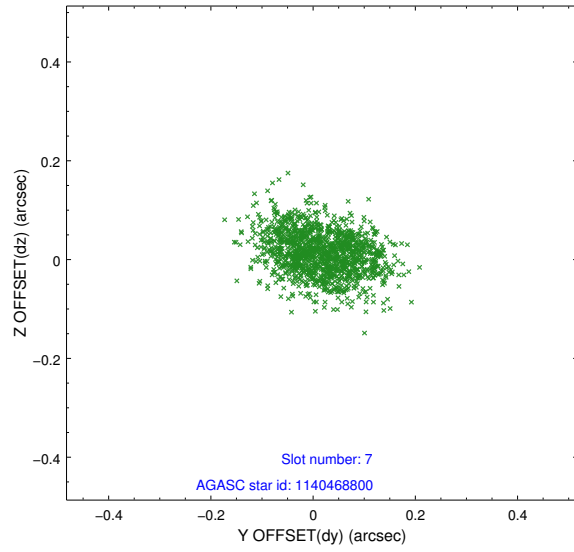
2.4.3 Slot 5



2.4.4 Slot 6

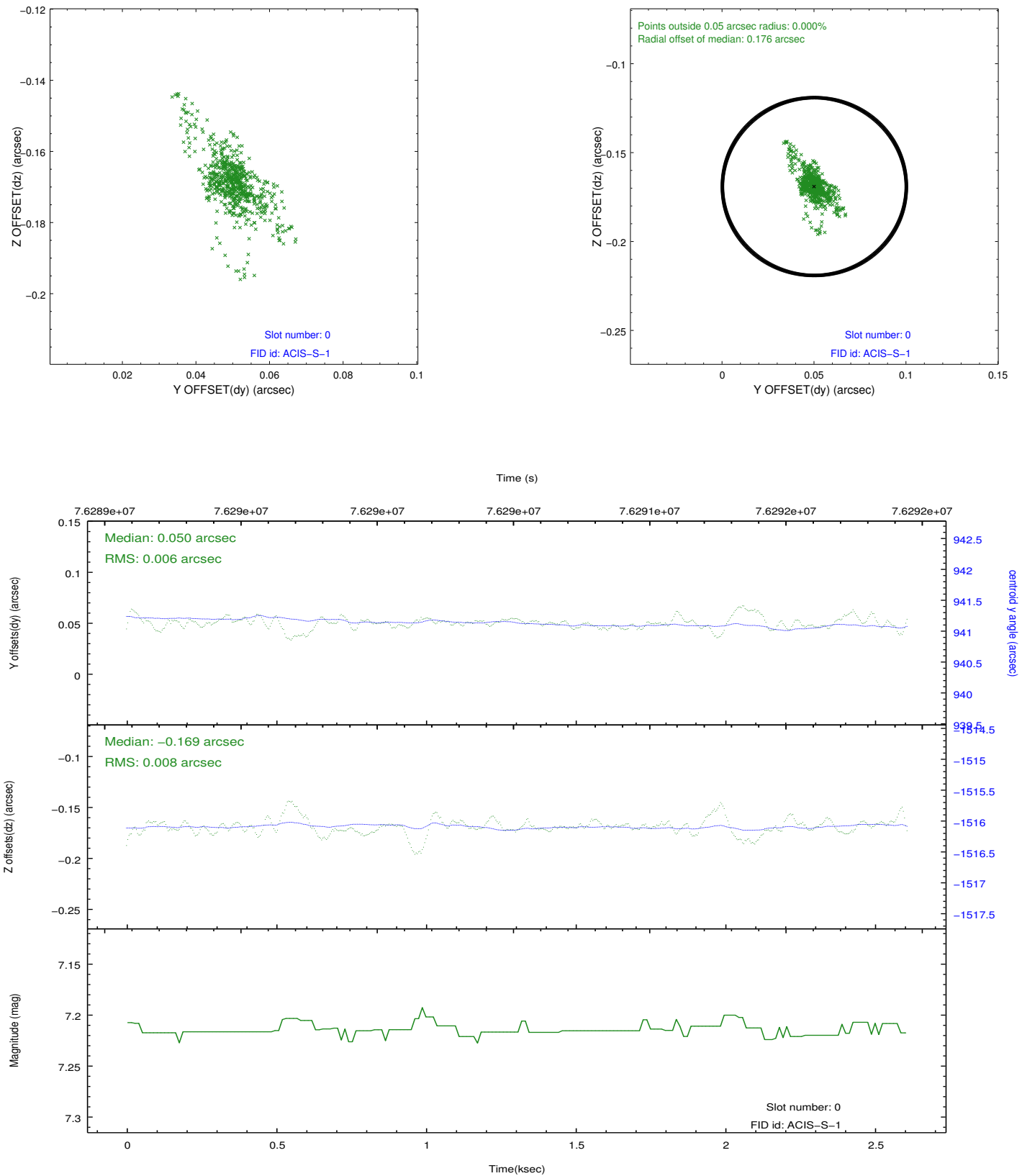


2.4.5 Slot 7

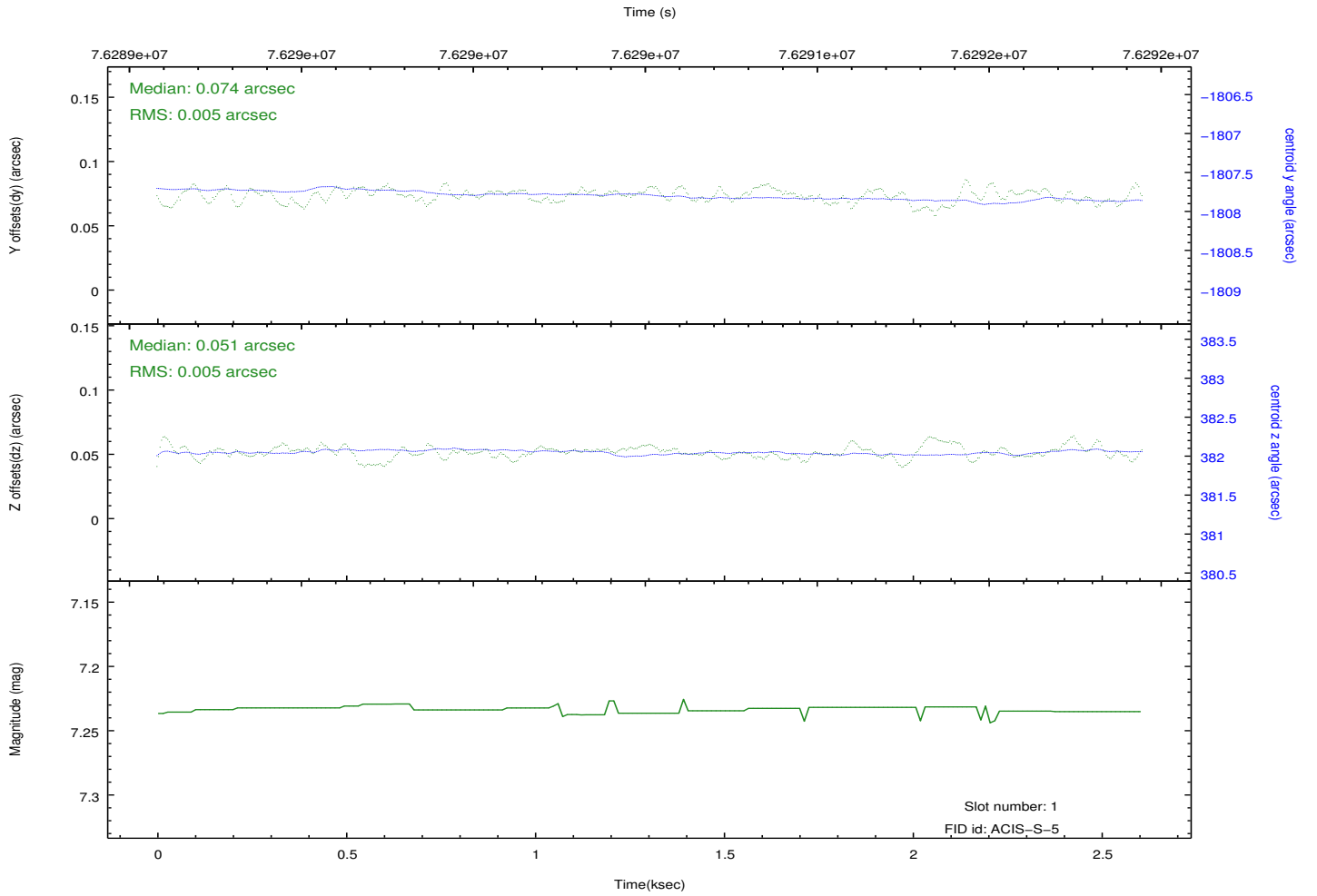
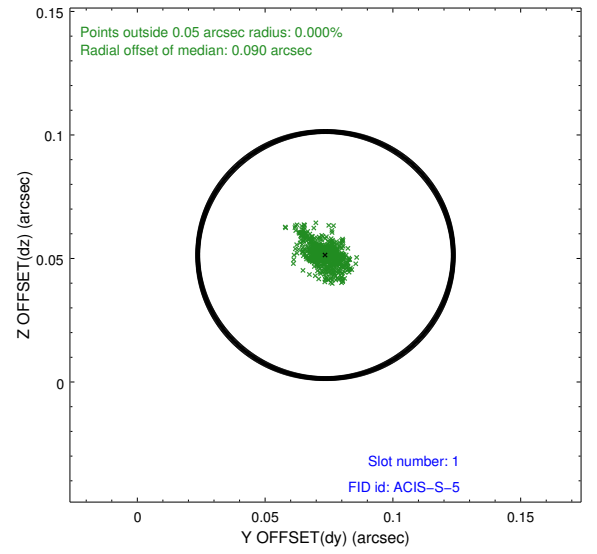
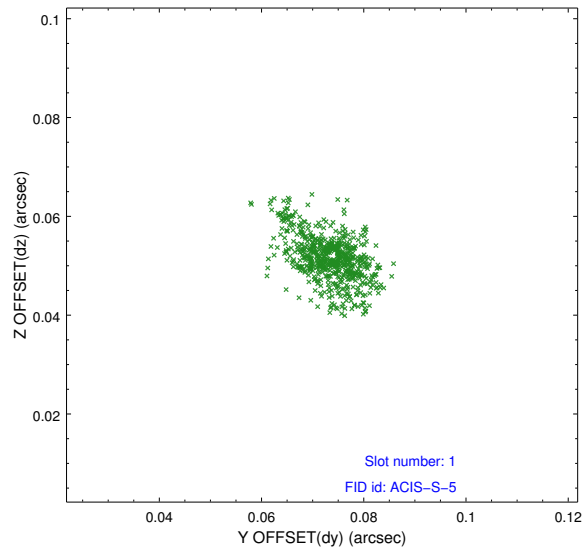


2.5 FID Slots

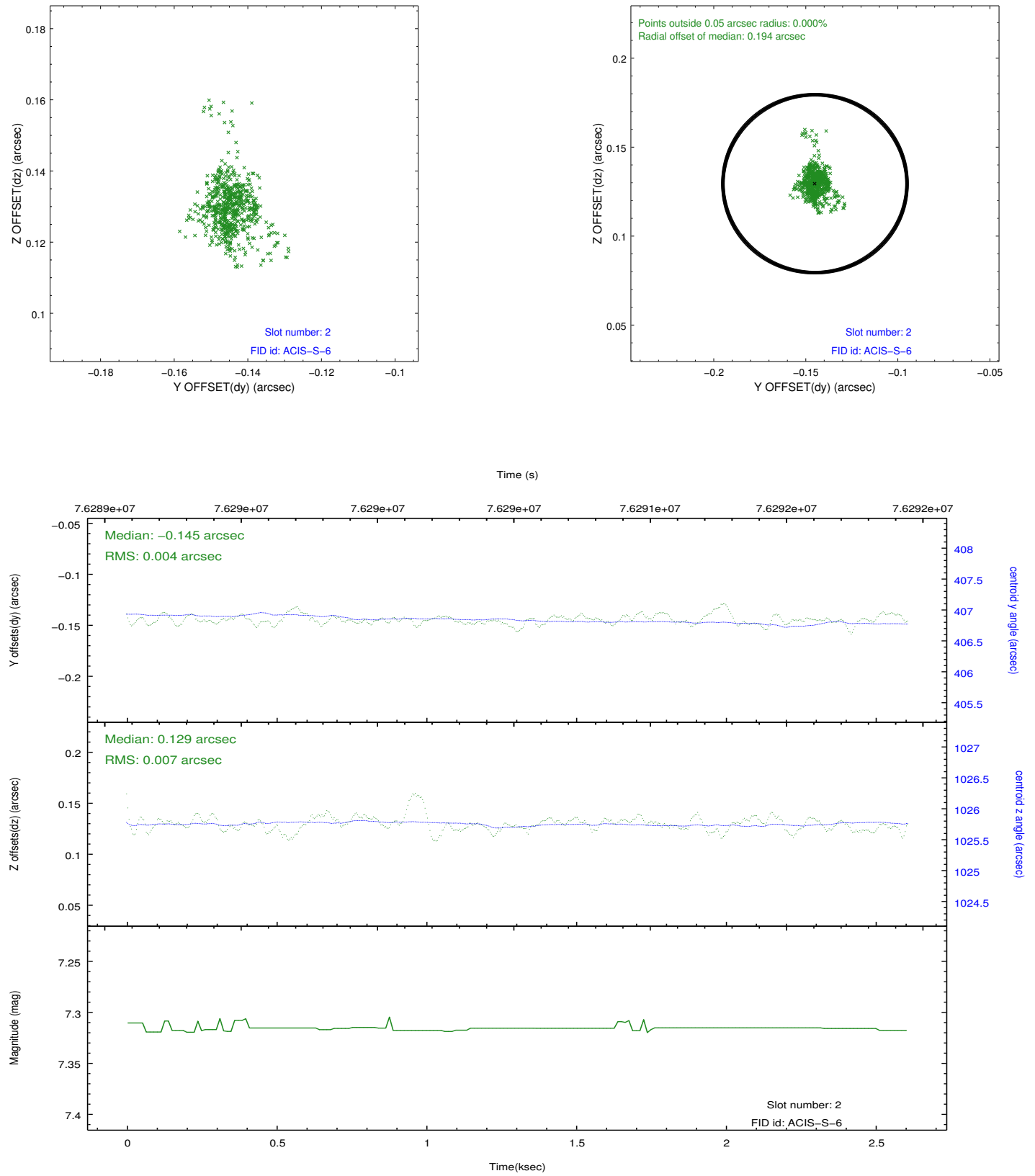
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



3 Gratings

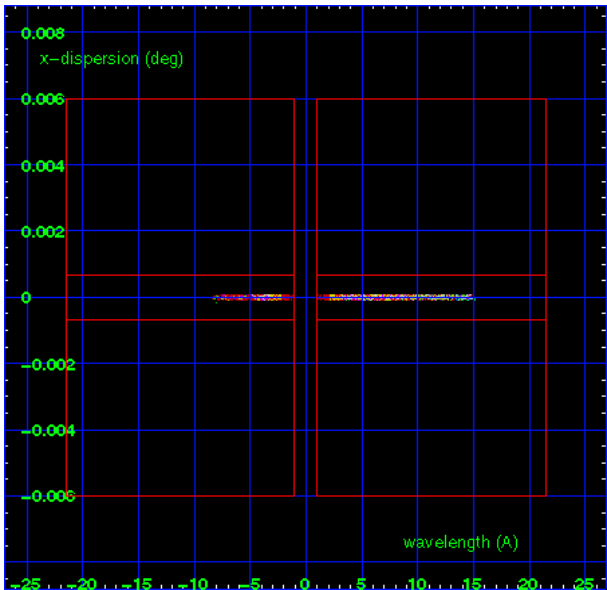
3.1 HEG Arm



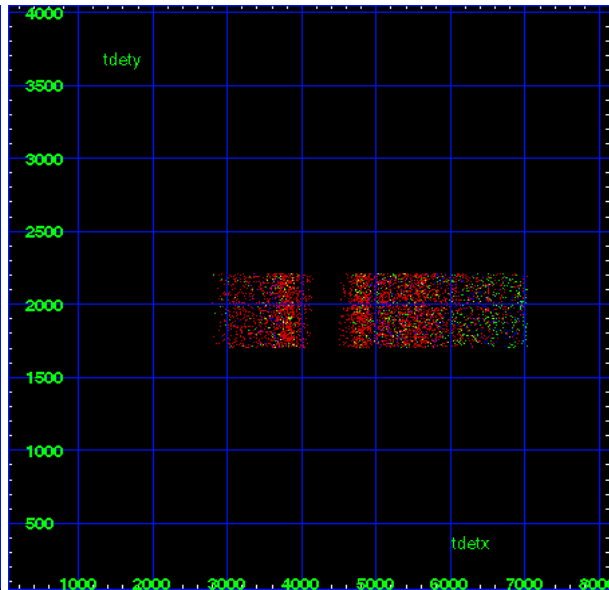
HEG Order Sort 123



HEG Order Sort ALL

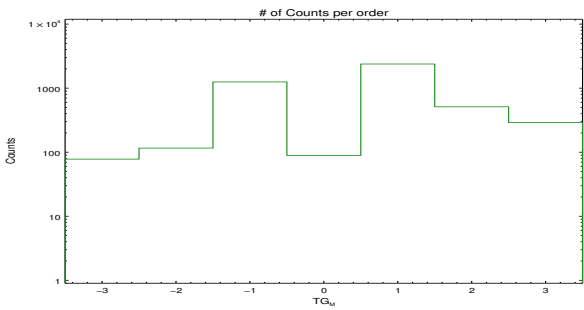


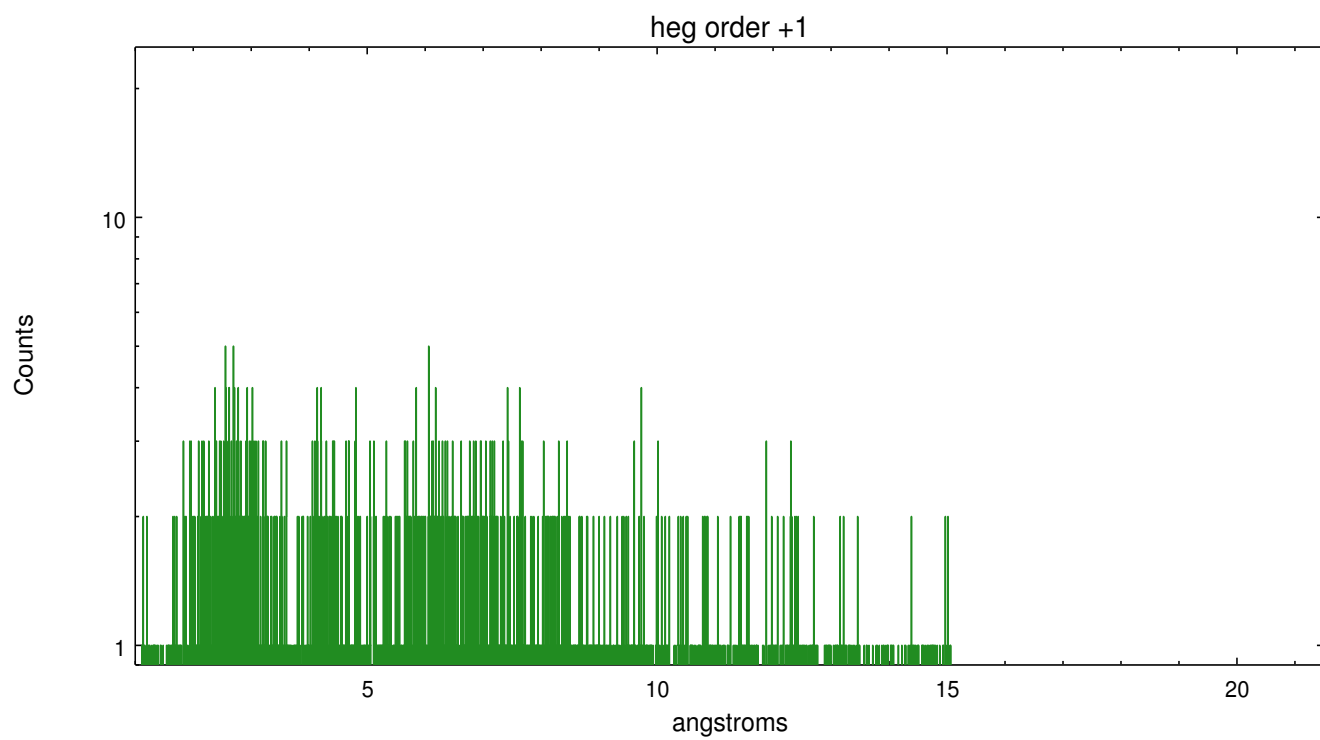
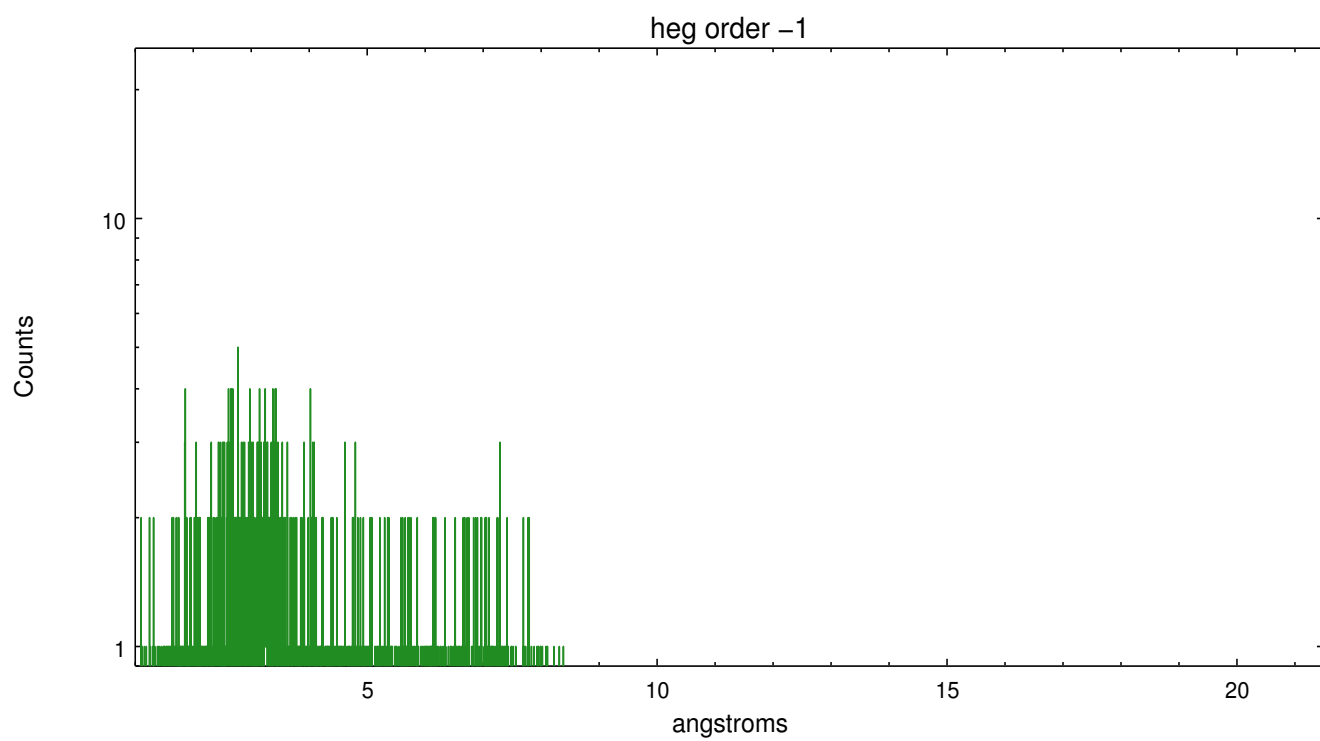
Spot Image HEG



Full Detector HEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	78	116	1252	89	2382	512	290





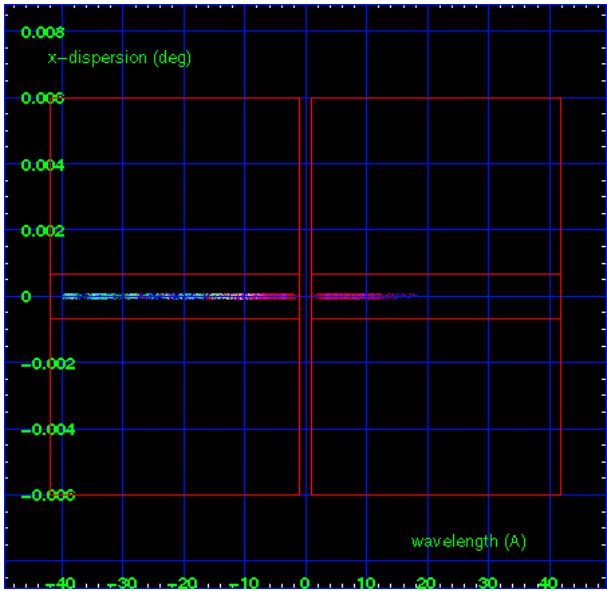
3.2 MEG Arm



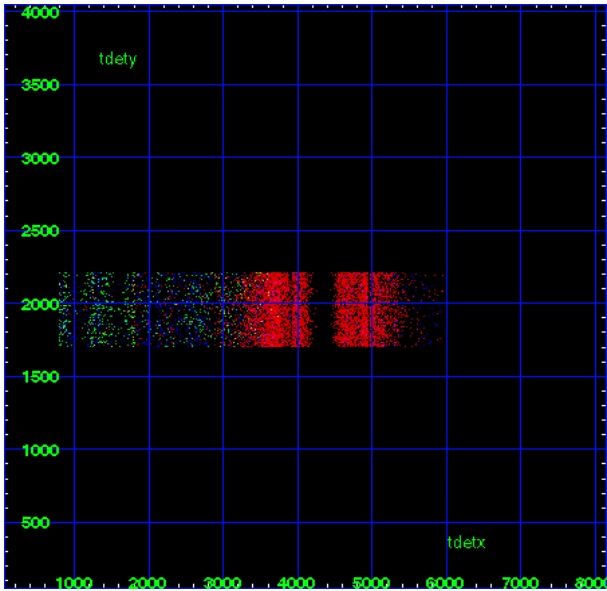
MEG Order Sort 123



MEG Order Sort ALL

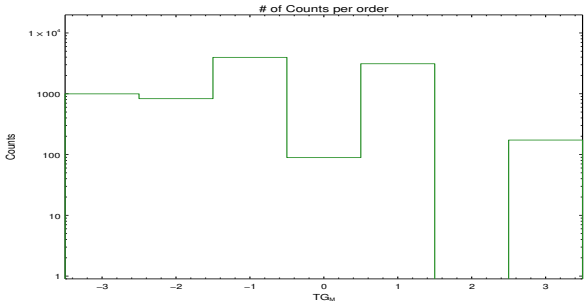


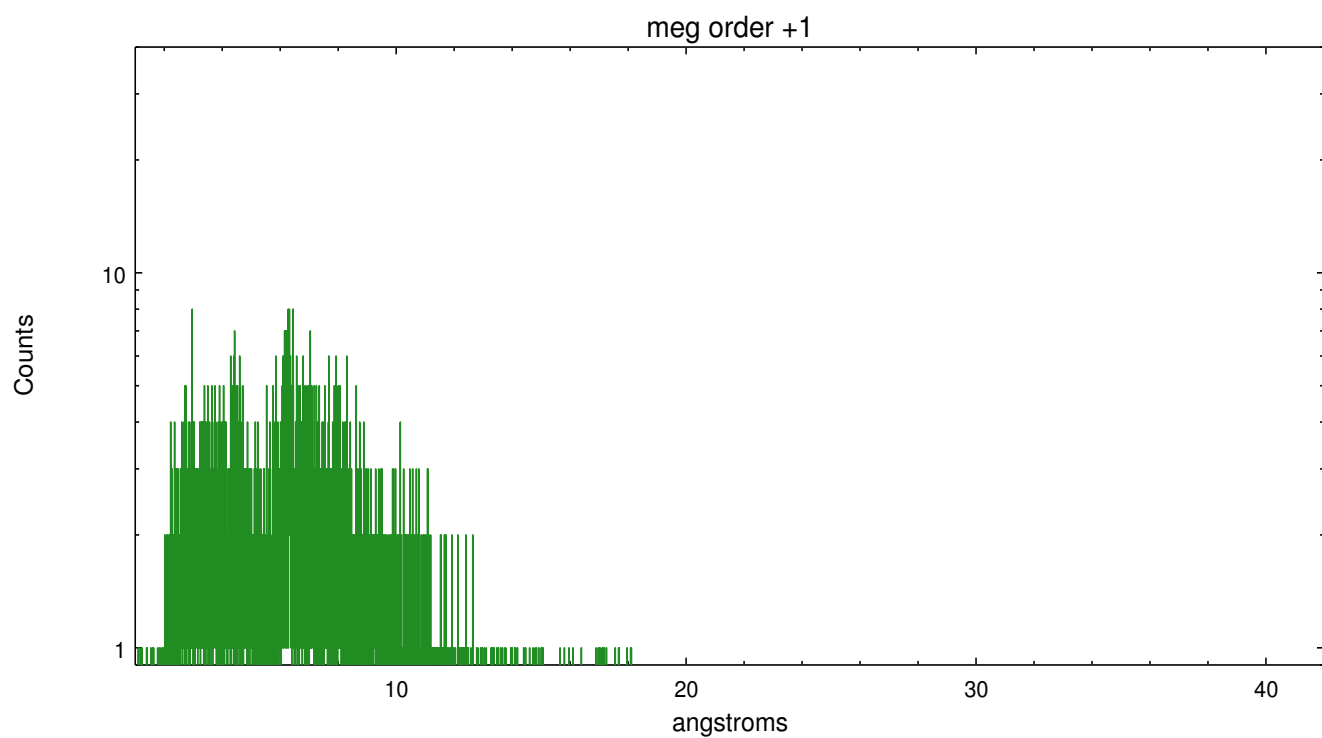
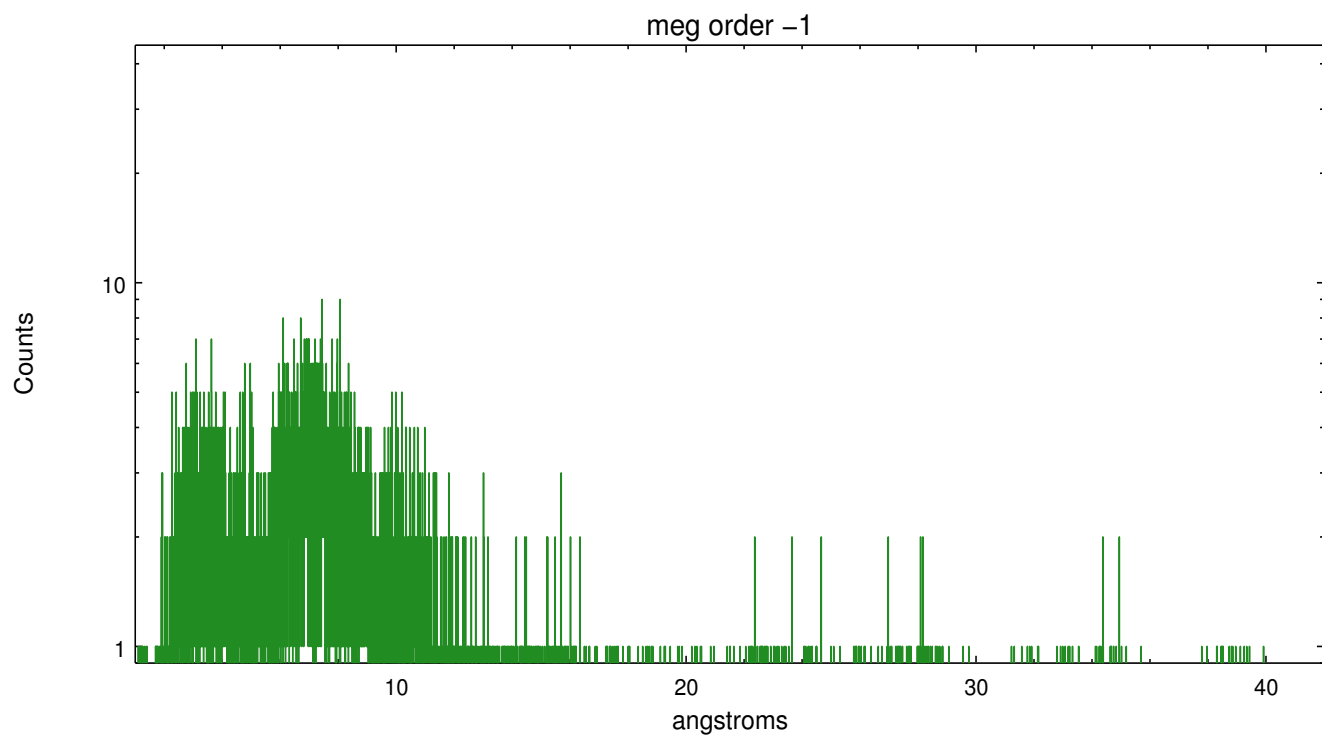
Spot Image MEG



Full Detector MEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	996	830	3966	89	3116	0	173





A Summary

A.1 Status

V&V Scientist	David Huenemoerder
V&V Date (YYYY-MM-DD)	2012.10.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.598

A.2 Comments

Charge time:

Charge time for this ObsId remains at previous value of 2.598 ks.

Source was positioned near the ACIS-S array edge so some orders fall off the array: HEG negative, MEG positive orders are truncated.

Since zeroth order was omitted, the wavelength scale origin adopted the projected position of the nominal source coordinate.