

V&V Reference Report

L2 ASCDS Version : 7.6.10

Observation 690 - L2 Version 001
Chandra X-Ray Center

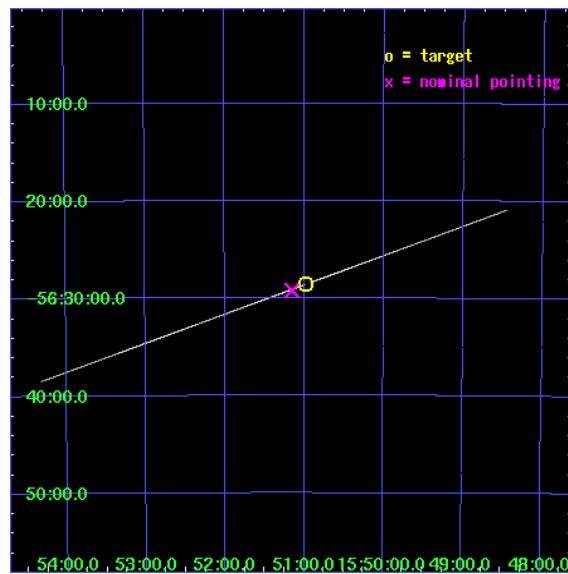
L2 Processing Date : May 23 2007

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1 Front

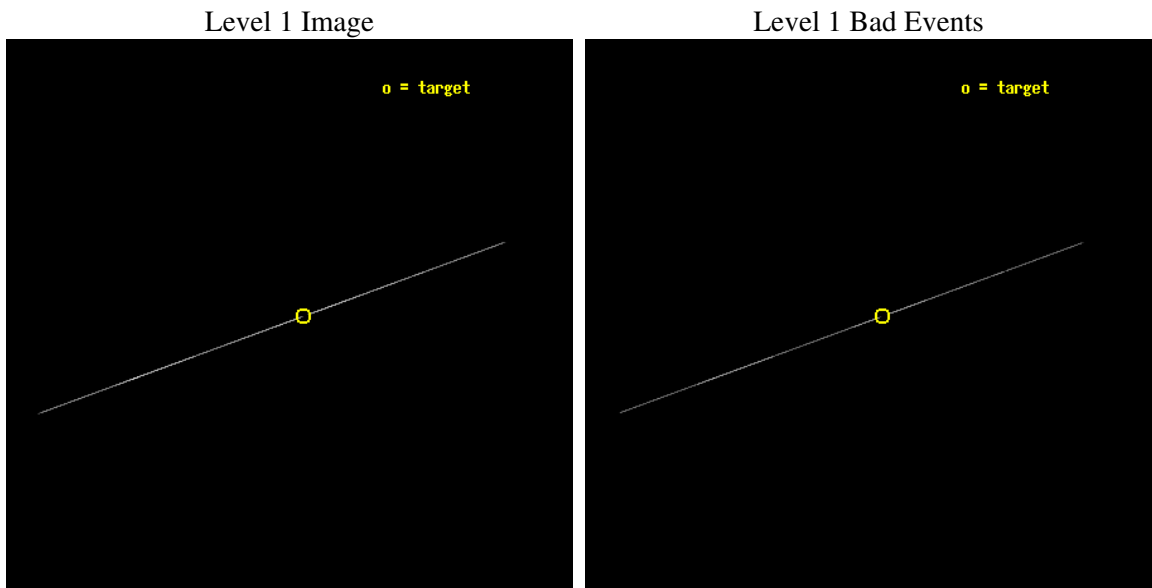
seq_num	400057
obs_id	690
title	AXAF OBSERVATIONS OF A BRIGHT BLACK HOLE X-RAY BINARY IN OUTBURST
observer	Prof. Walter Lewin
object	XTE J1550-564 (OUTBURST DECAY)
ra_targ	237.745417
dec_targ	-56.476472
ra_nom	237.7883105081
dec_nom	-56.486901298619
roll_nom	340.03613186068
revision	5
ontime	2609.0
livetime	2598.80859375
ontime4	2609.0
ontime5	2609.0
ontime6	2609.0
ontime7	2609.0
ontime8	2609.0
ontime9	2609.0
l2events	44240



2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Parameters

obi_num	0
ascdsver	7.6.10
caldbver	3.4.0
date	2007-05-23T11:59:47
revision	4

sched_exp_time	2445.661000
ontime	2609.0
ontime4	2609.0
ontime5	2609.0
ontime6	2609.0
ontime7	2609.0
ontime8	2609.0
ontime9	2609.0
l1events	97240

2.1.3 Events

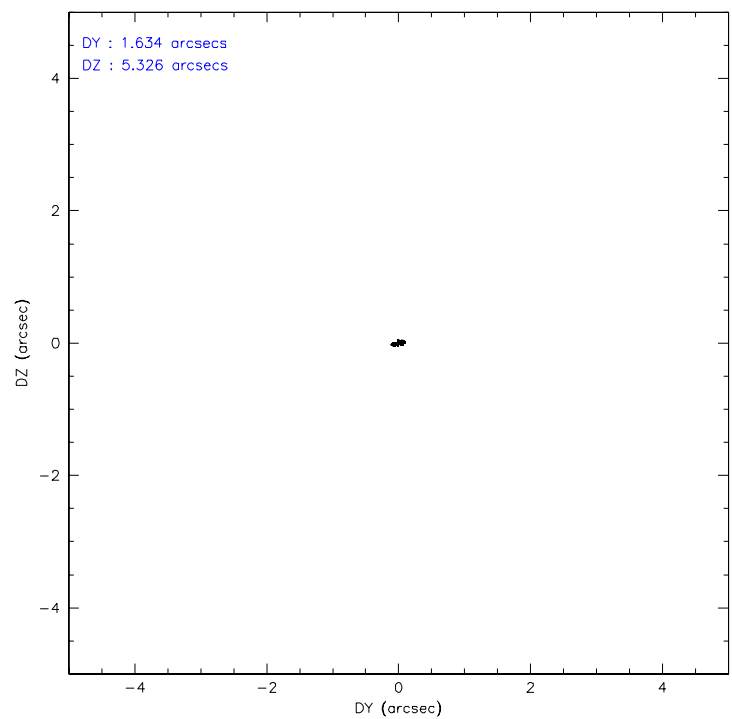
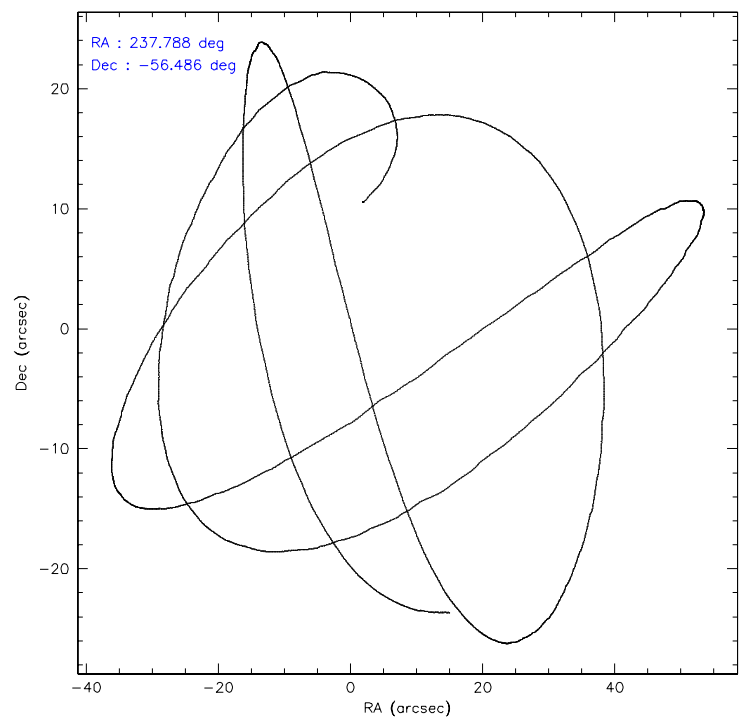
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	7745	30507	12110	23841	14974	8063
rejected events	3764	14291	4207	10826	5788	3907
rejected %	48%	46%	34%	45%	38%	48%

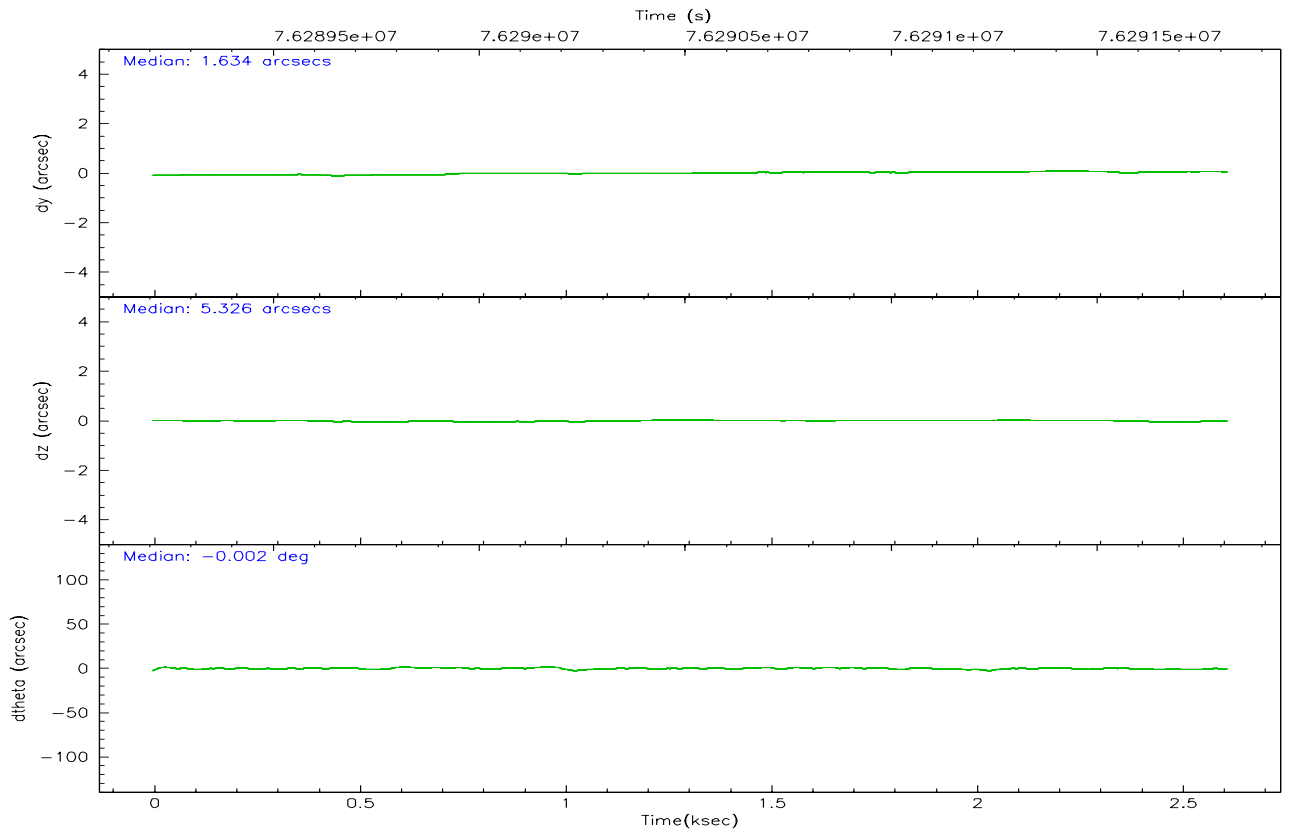
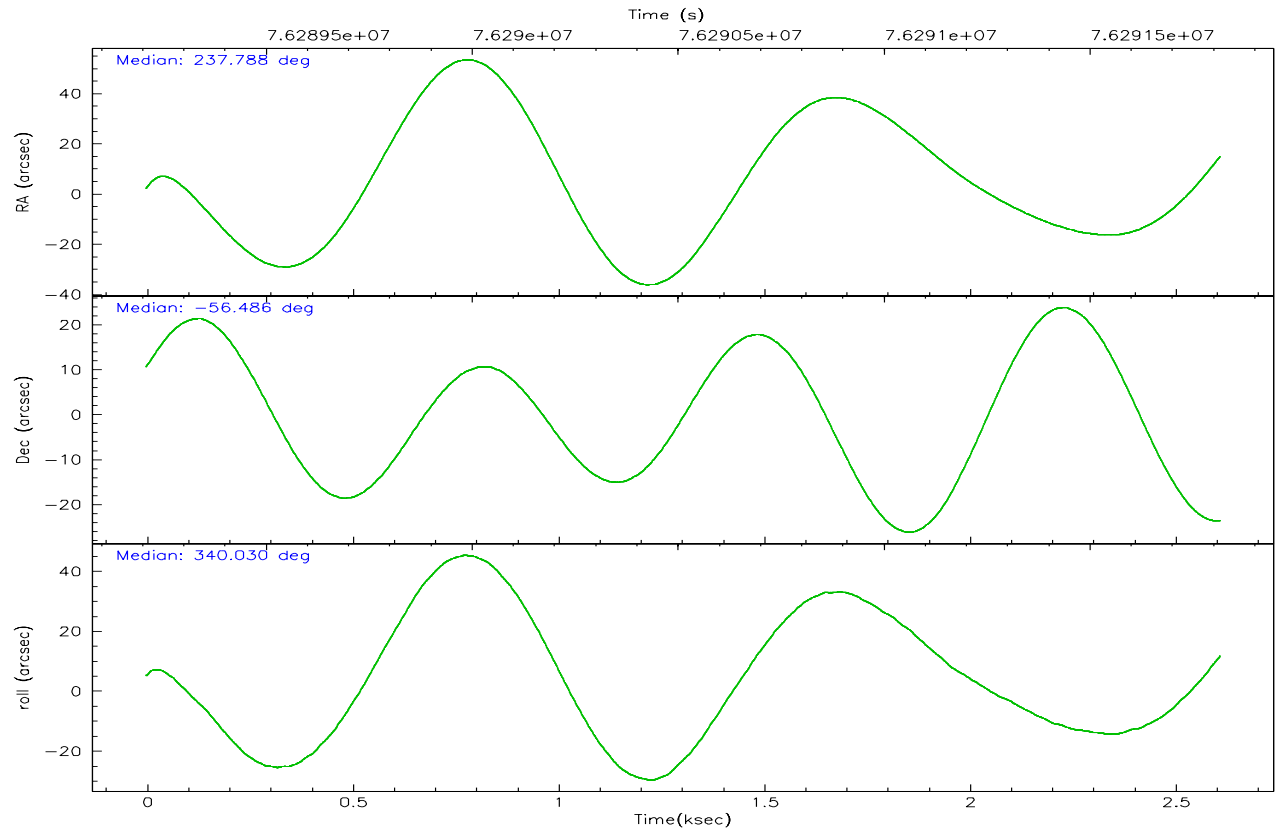
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	633	6842	767	1694	1838	868
	8%	22%	6%	7%	12%	10%
grade 1 events	15	19	10	25	28	17
	0%	0%	0%	0%	0%	0%
grade 2 events	3566	7935	7332	5936	6960	3370
	46%	26%	60%	24%	46%	41%
grade 3 events	794	573	750	1140	1149	741
	10%	1%	6%	4%	7%	9%
grade 4 events	850	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	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	CC33_GRADED	CC33_GRADED	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
Pointing RA	237.740448	237.7883105081009	Subarray requested	NONE	NONE
Pointing Dec	-56.492149	-56.48690129861926	Alternating exposures requested	N	N
Pointing Roll	339.839557	340.0361318606822	Primary exposure time	0.000000	0
SIM focus pos (mm)	-0.684267	-0.6828225247311905			
SIM defocus (mm)	0	0.001444936568705701			
SIM translation stage pos (mm)	-200.132523	-200.1369836888744			
SIM translation stage offset (mm)	10	10.00446110586662			
Observation start time	76289374.184000	76287790.84730799			
Observation start date	2000-06-01T23:28:30	2000-06-01T23:03:10			
Observation end time	76291819.184000	76292129.159968			
Observation end date	2000-06-02T00:09:15	2000-06-02T00:15:29			
Read mode	CONTINUOUS	CONTINUOUS			

2.3 Aspect



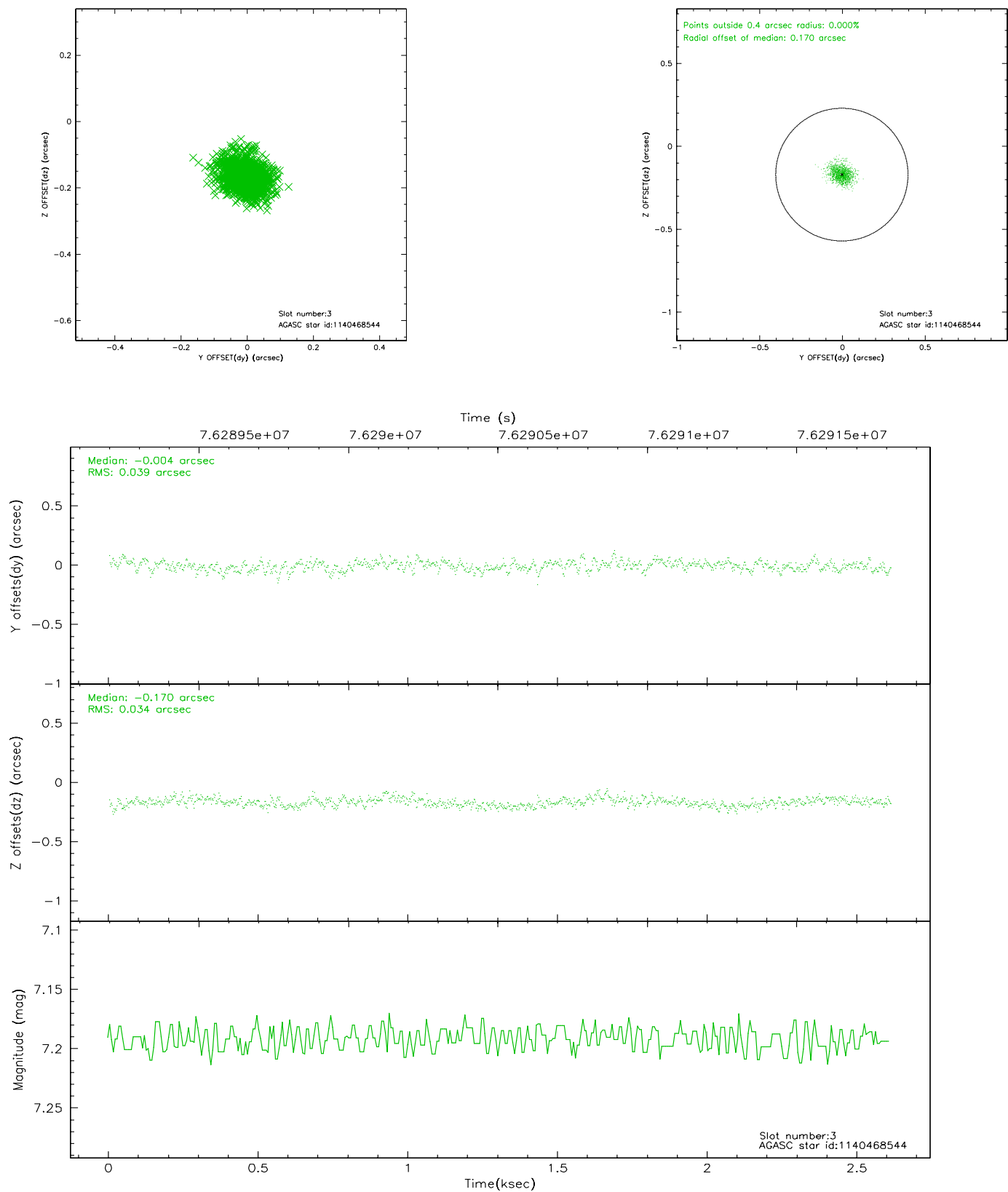


Slot Statistics

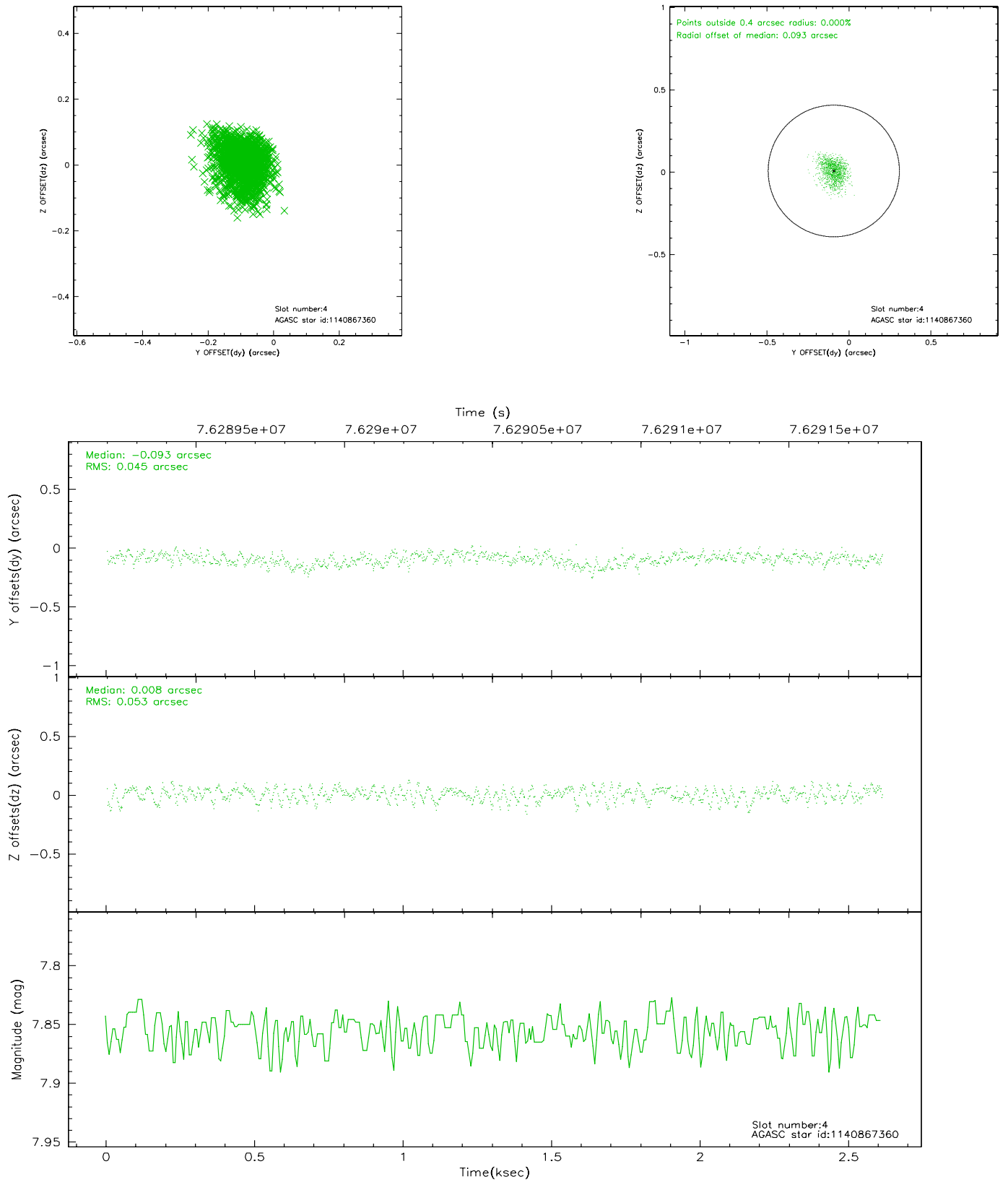
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.22	637	0.030	-0.142	0.008	0.022	0.000000	0.000000	941.12	-1516.05
1	FID	ACIS-S-5	7.23	637	0.104	0.044	0.007	0.012	0.000000	0.000000	-1806.28	379.68
2	FID	ACIS-S-6	7.32	637	-0.155	0.110	0.008	0.017	0.000000	0.000000	404.00	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

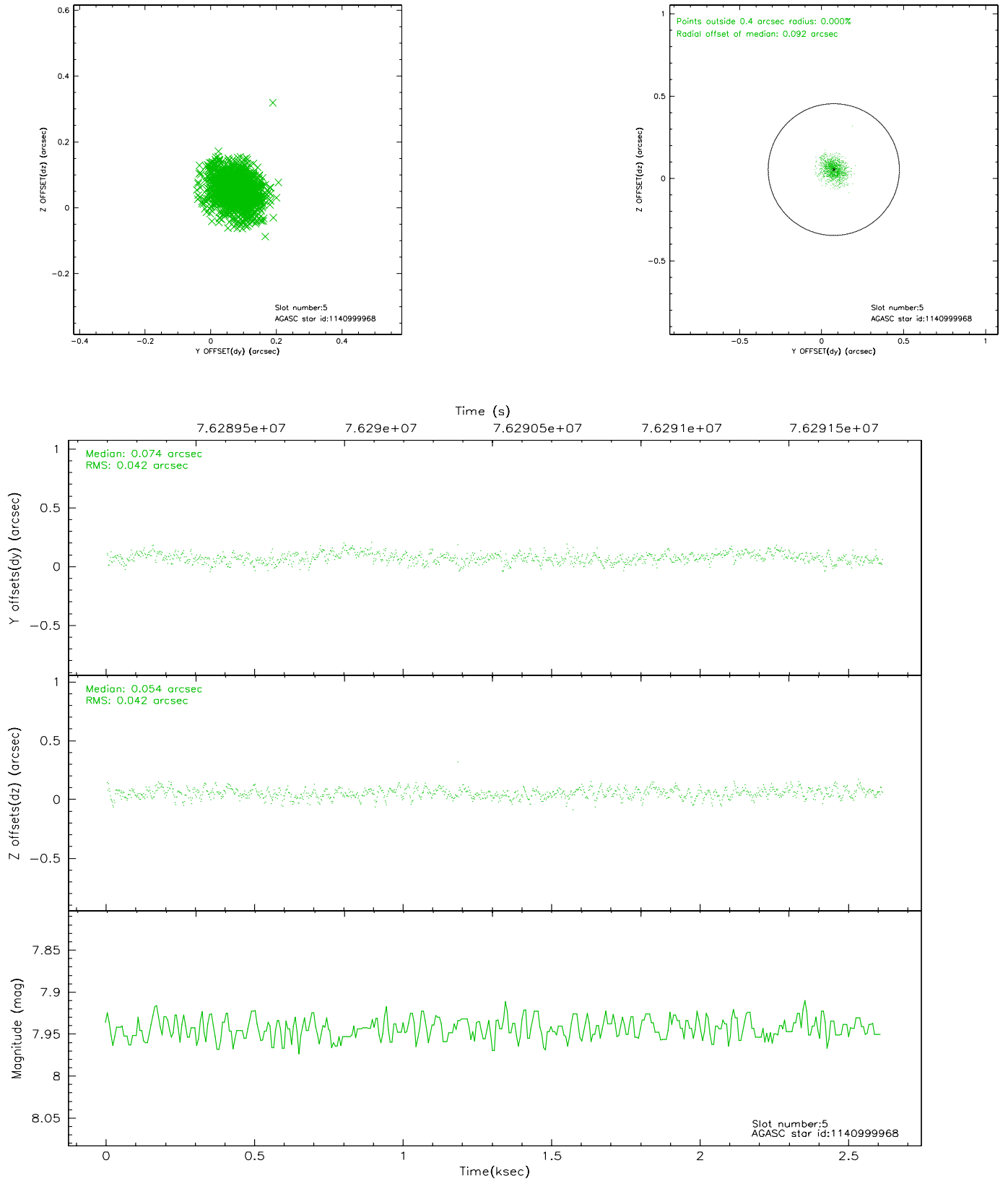
2.4.1 Slot 3



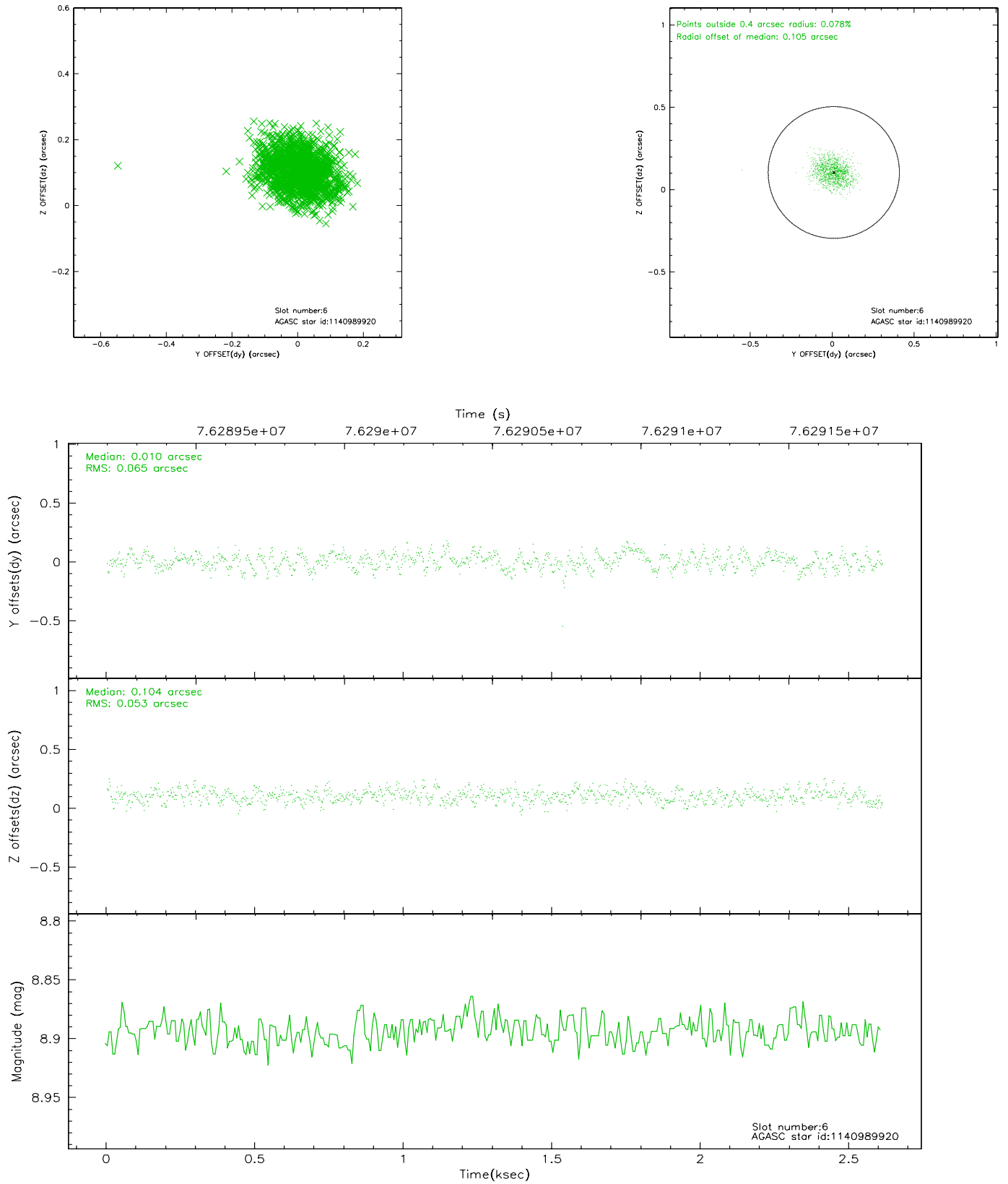
2.4.2 Slot 4



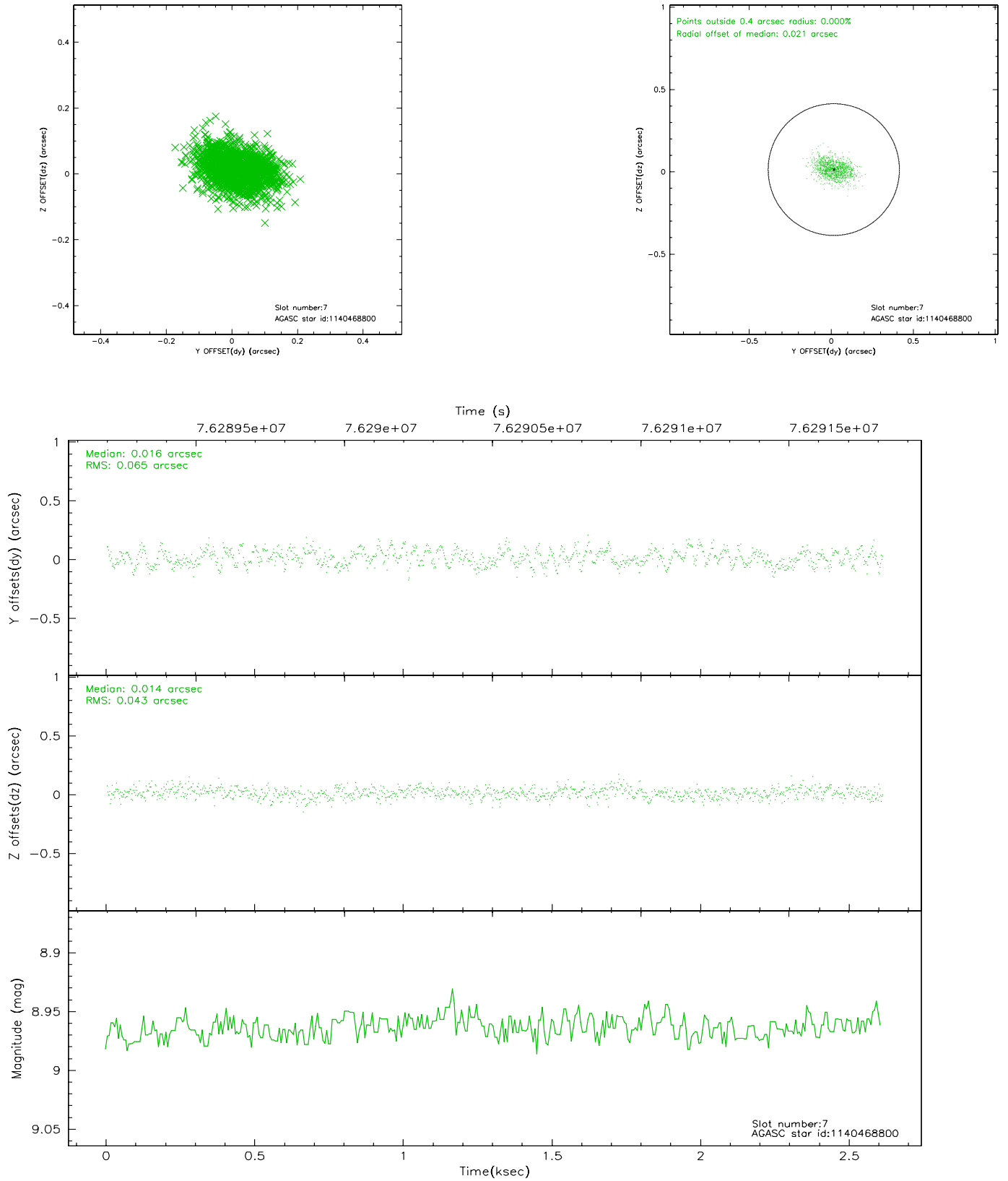
2.4.3 Slot 5



2.4.4 Slot 6

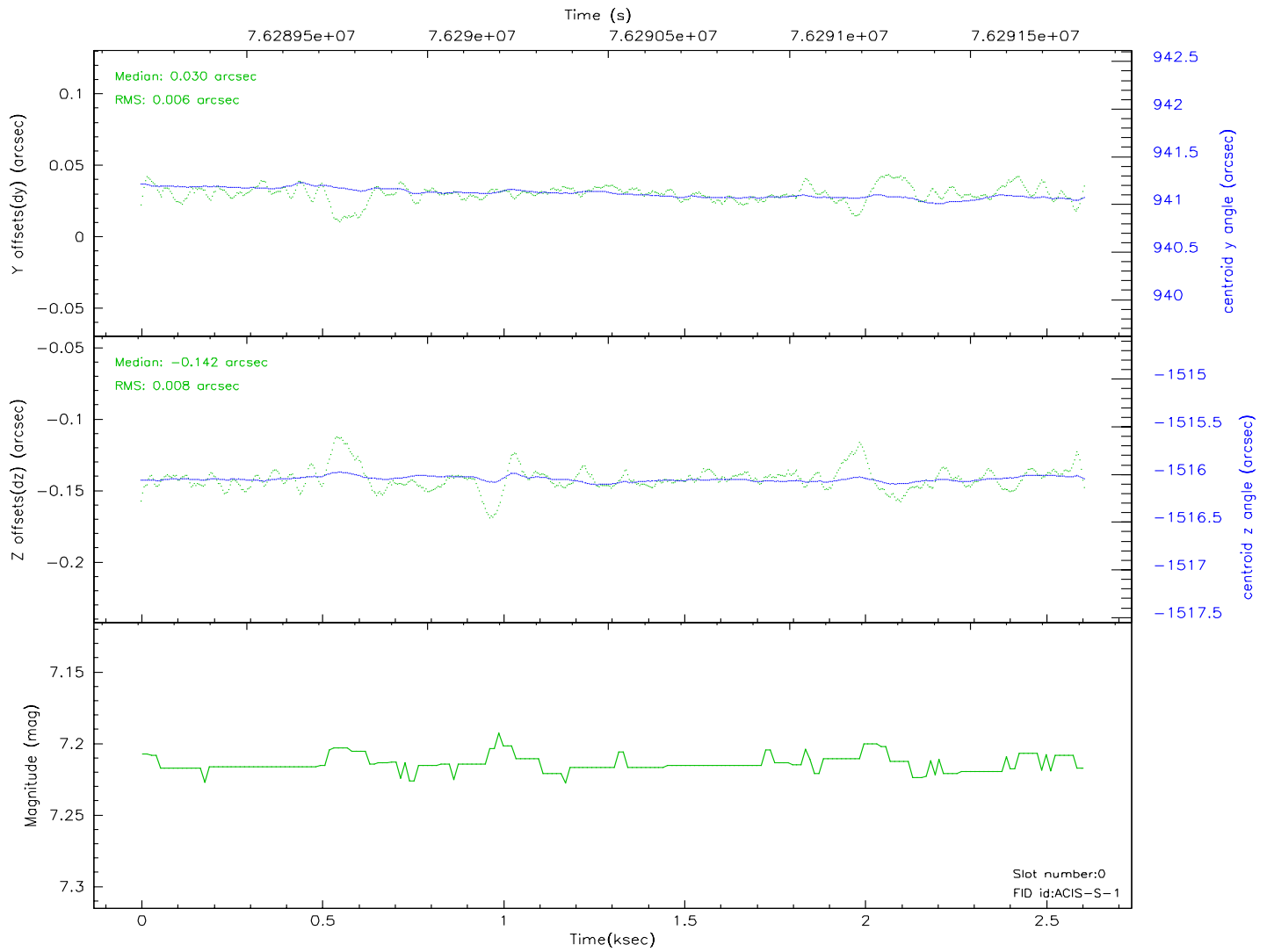
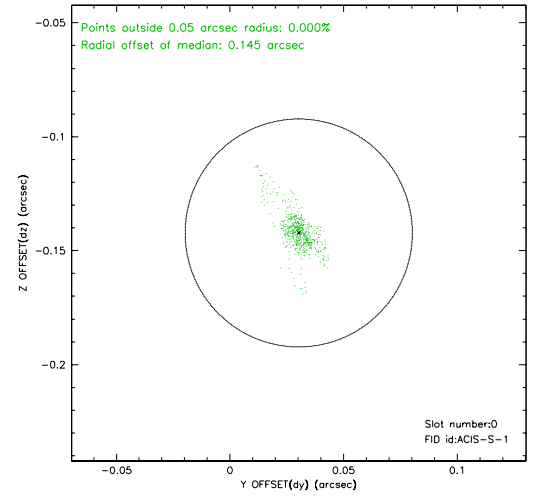
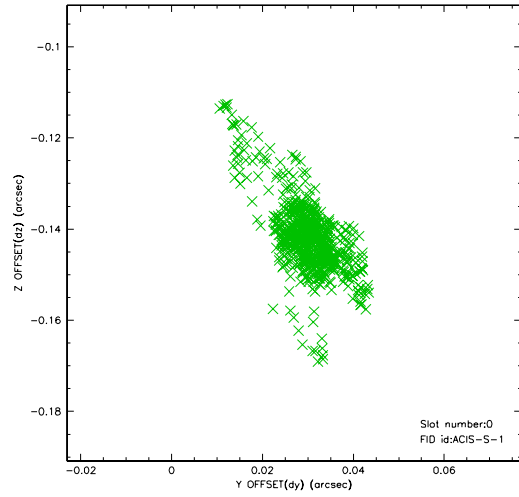


2.4.5 Slot 7

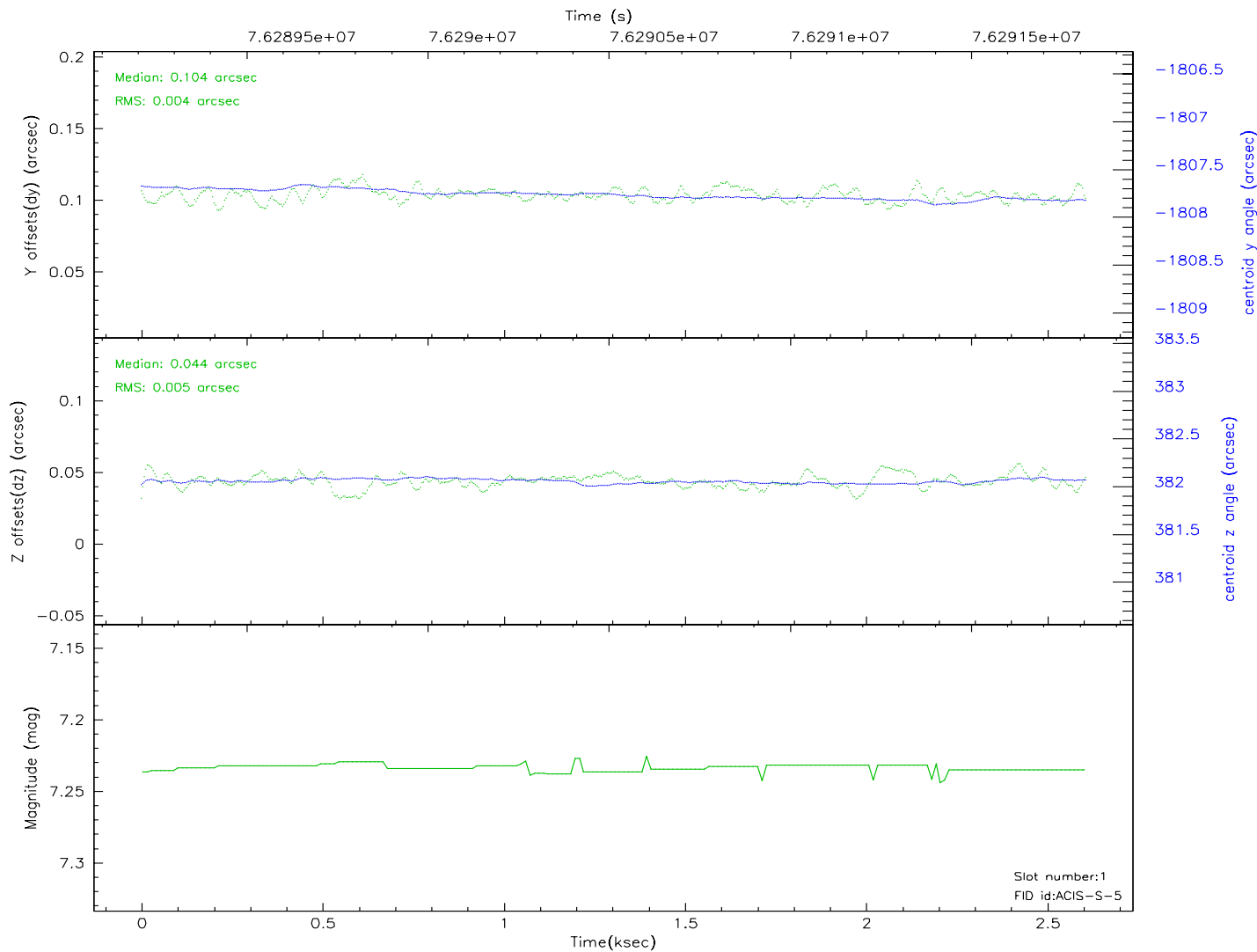
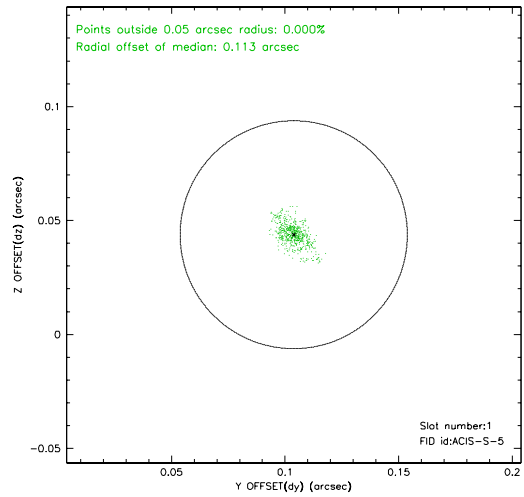
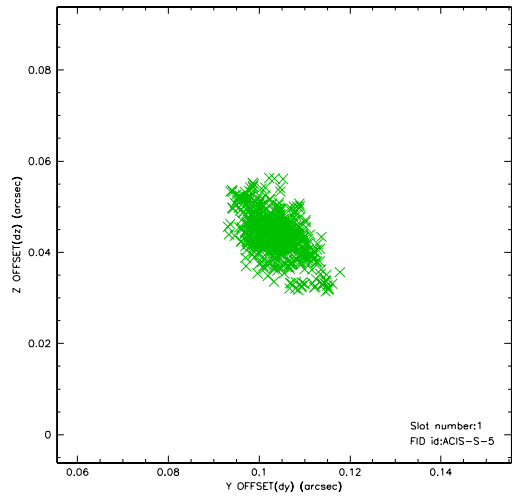


2.5 FID Slots

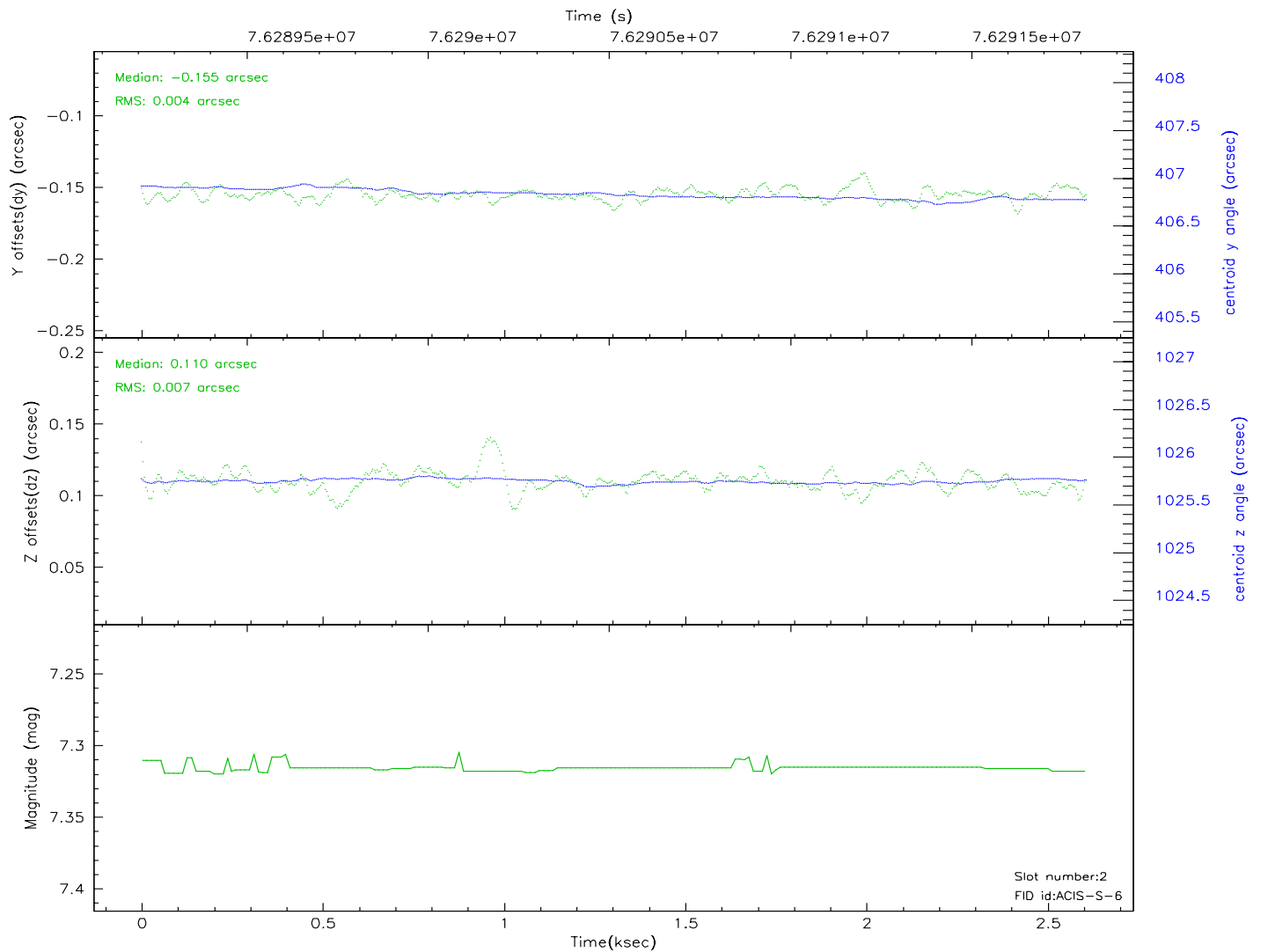
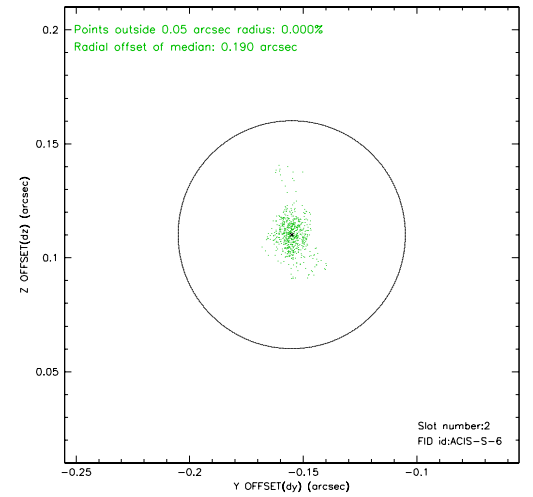
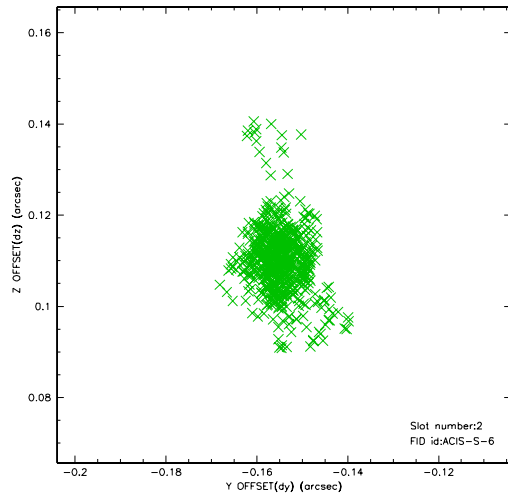
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



3 Gratings

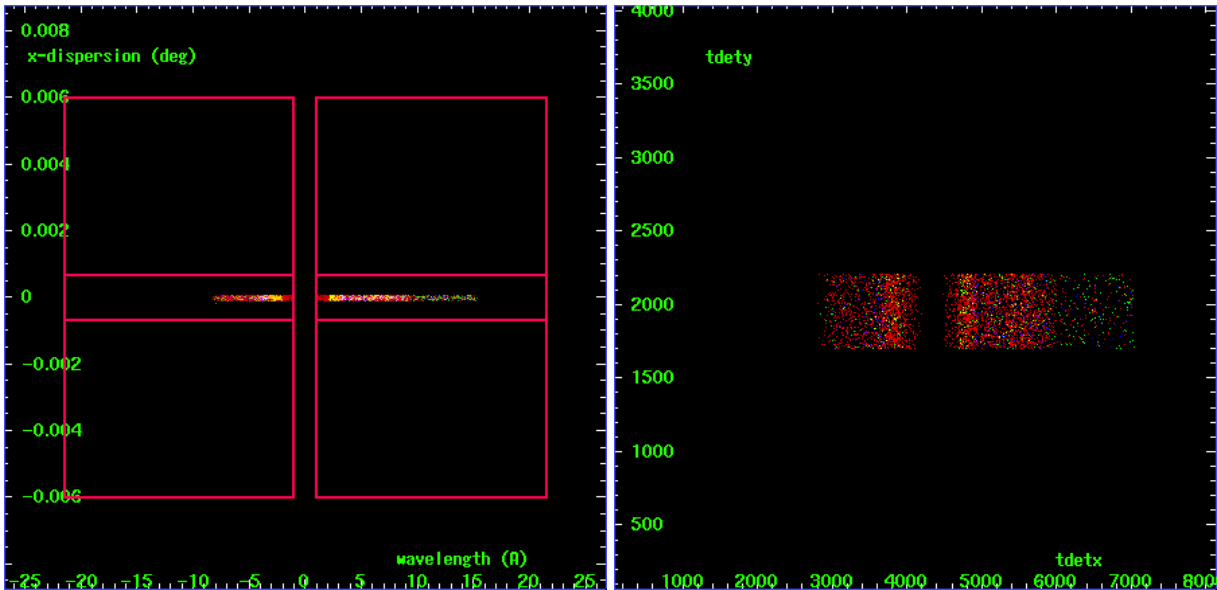
3.1 HEG Arm



HEG Order Sort 123



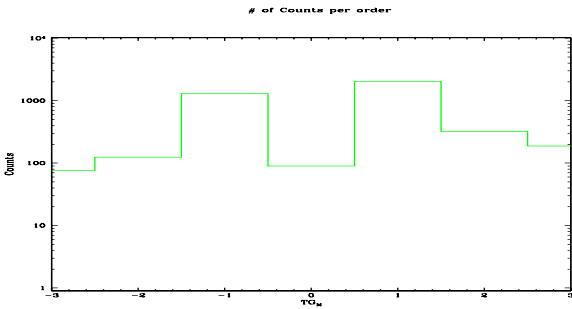
HEG Order Sort ALL

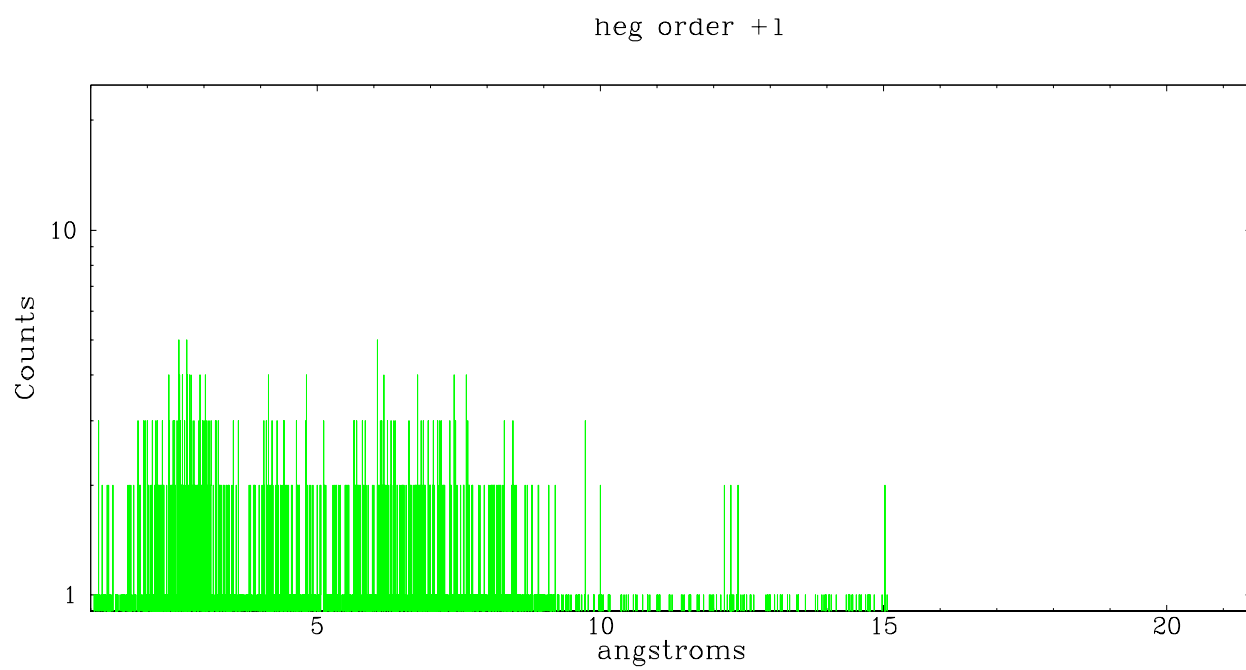
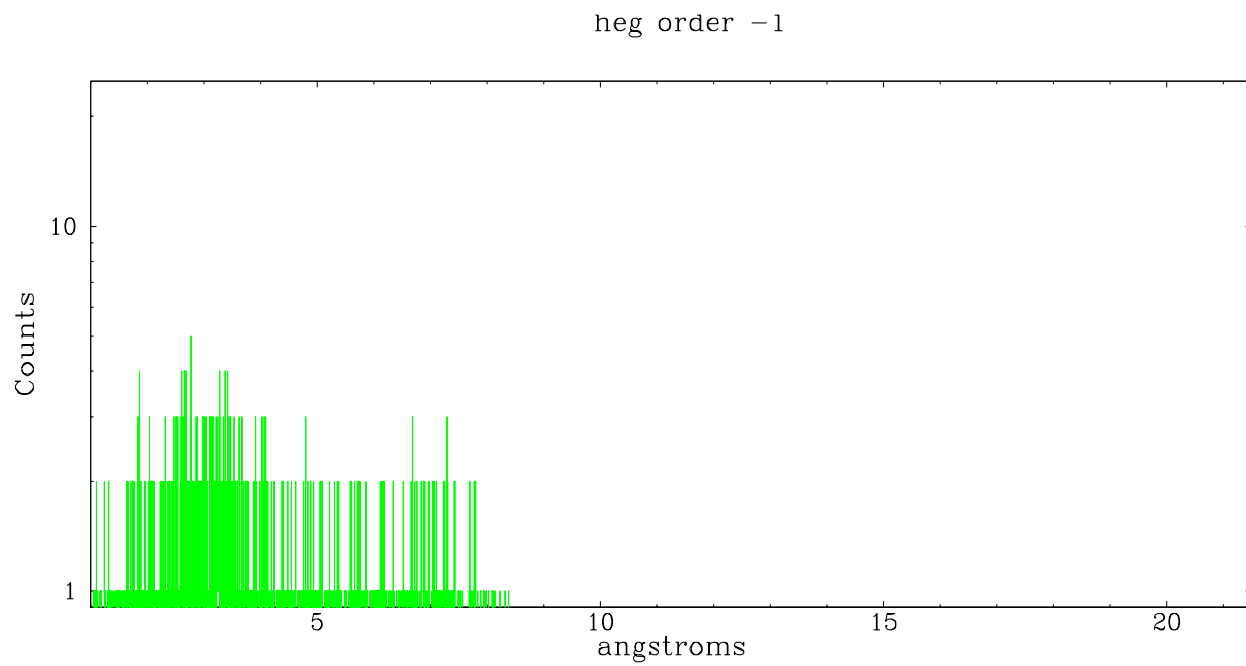


Spot Image HEG

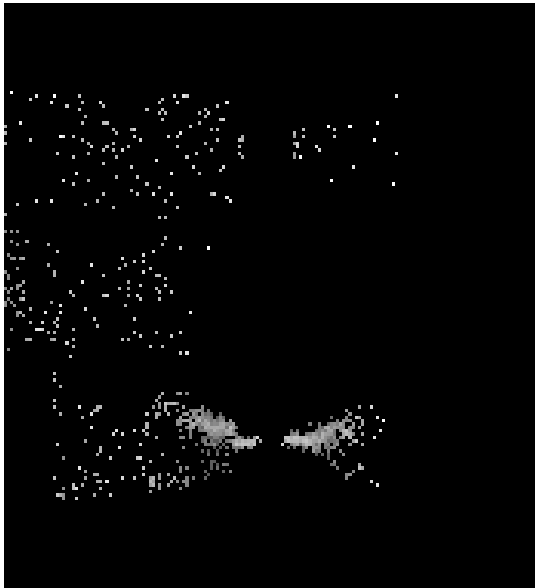
Full Detector HEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	76	124	1298	90	2027	320	187





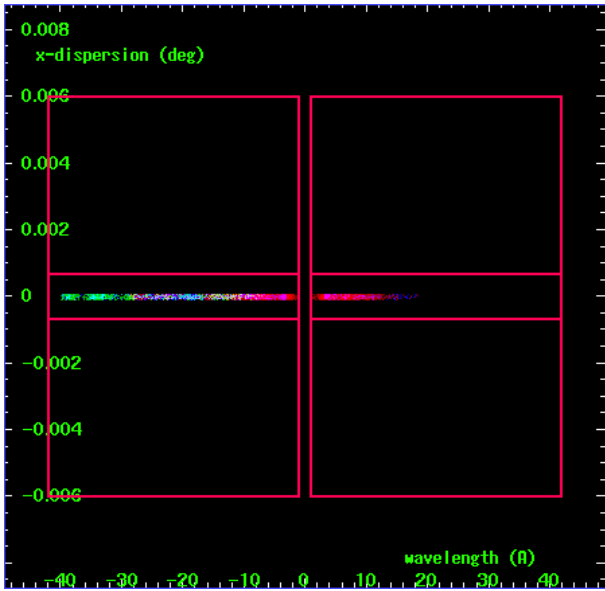
3.2 MEG Arm



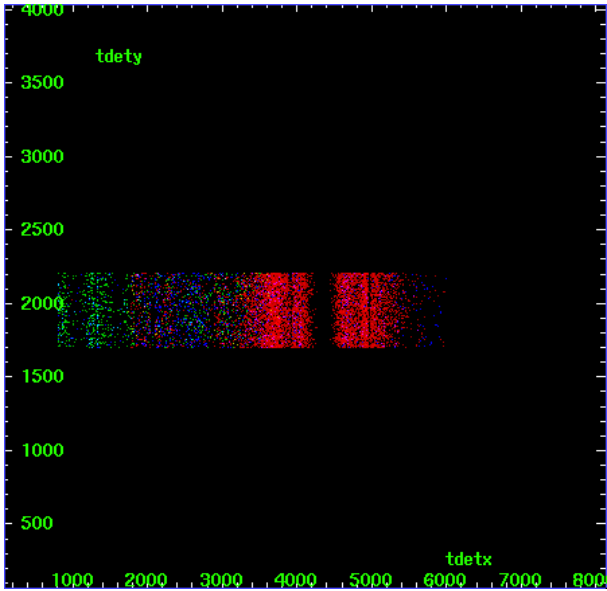
MEG Order Sort 123



MEG Order Sort ALL

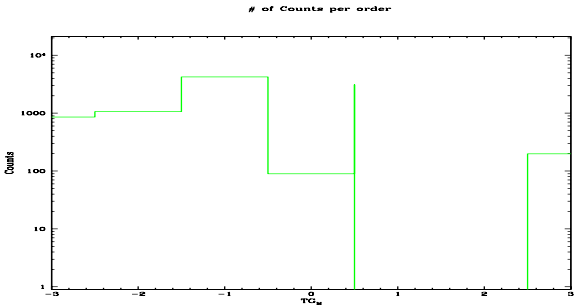


Spot Image MEG

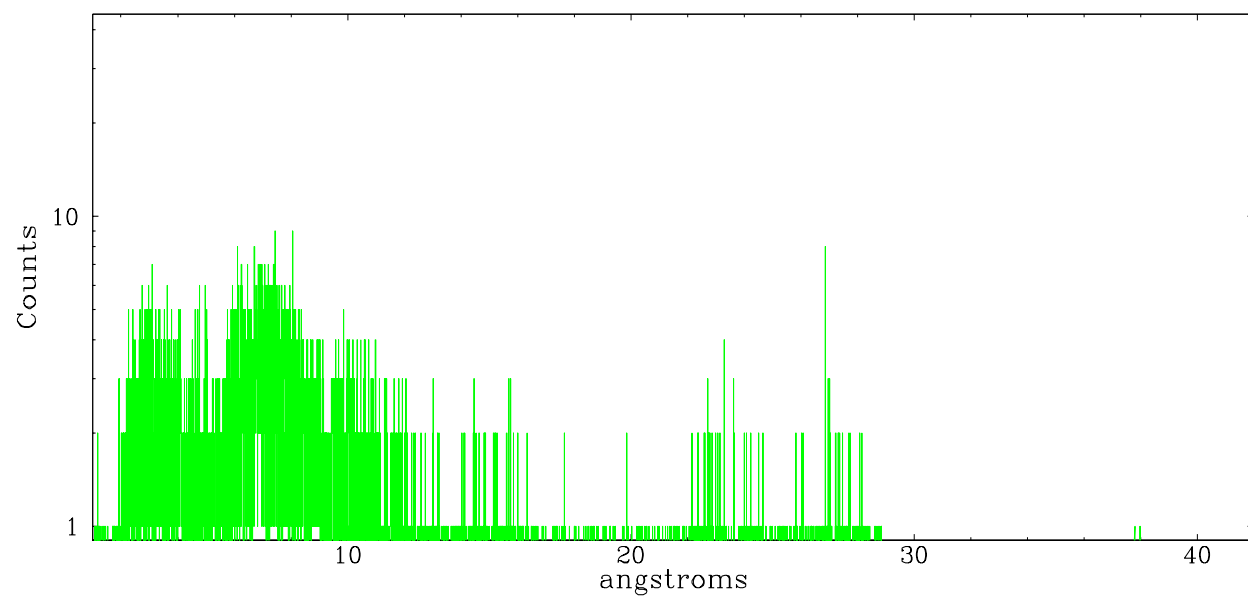


Full Detector MEG

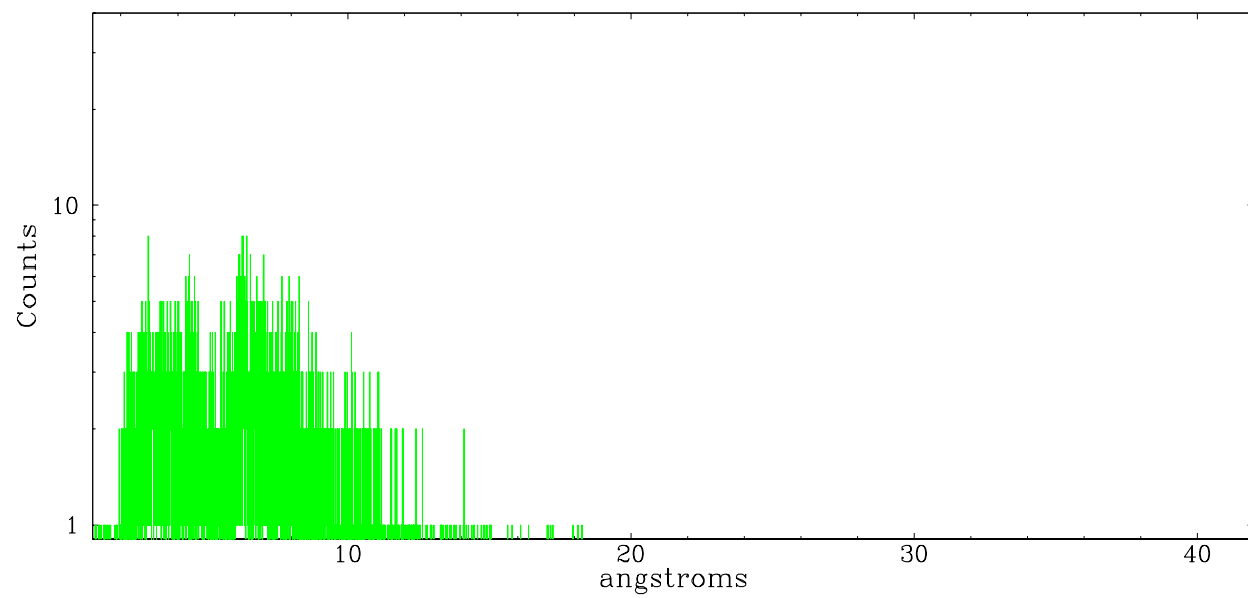
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	861	1067	4228	90	3092	0	199



meg order -1



meg order +1



A Summary

A.1 Status

V&V Scientist	David Huenemoerder
V&V Date (YYYY-MM-DD)	2007.05.23
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.

Zero order blocked, cc-mode: required 'dead-reckoning' based on source coordinates and aspect solution to get a good zero order centroid

for grating wavelength calibration. With ds9, the target position was found to be at sky (x,y) = (4269.9, 4172.8) and was used in processing.