

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 681 - L2 Version 6
Chandra X-Ray Center

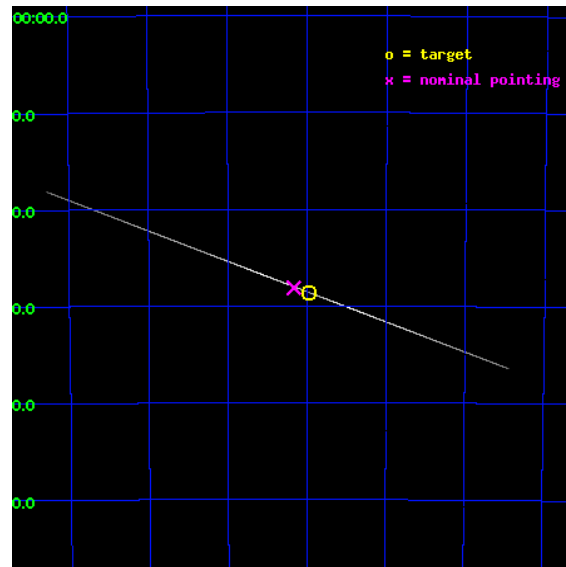
L2 Processing Date : Aug 28 2012

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1 Front

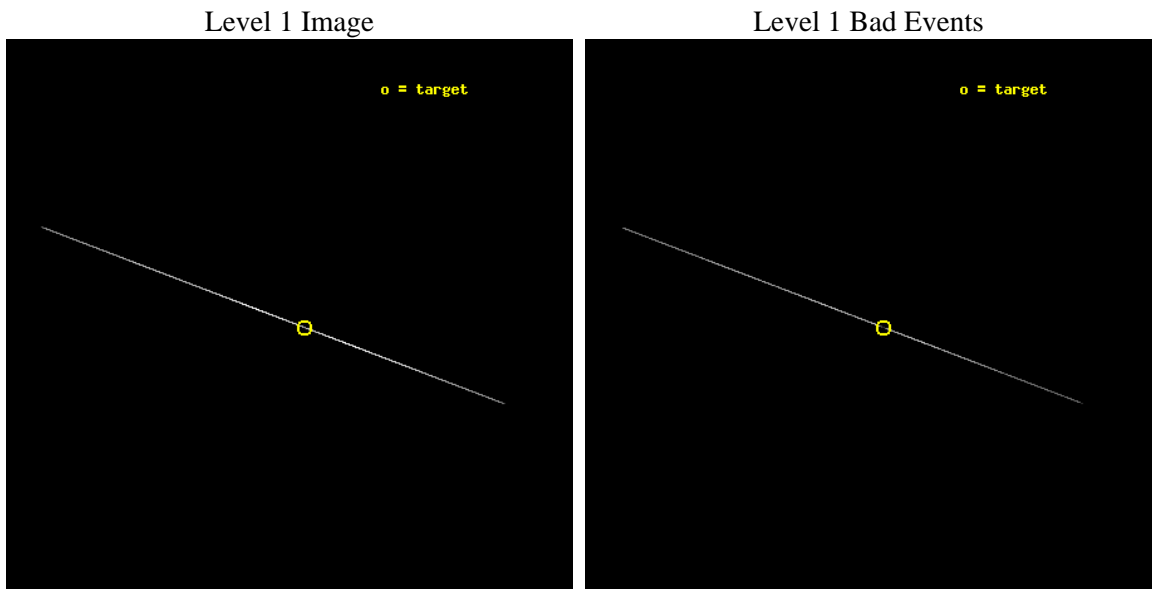
seq_num	400048	Sequence number
obs_id	681	Observation id
title	AXAF OBSERVATIONS OF A BRIGHT BLACK HOLE X-RAY BINARY IN OUTBURST	
observer	Prof. Walter Lewin	Principal investigator
object	XTE J1550-564 (OUTBURST RISE)	Source name
ra_targ	237.745417	Observer's specified target RA [deg]
dec_targ	-56.476472	Observer's specified target Dec [deg]
ra_nom	237.7917517383	Nominal RA [deg]
dec_nom	-56.468888430326	Nominal Dec [deg]
roll_nom	20.656321408011	Nominal Roll [deg]
revision	6	Processing version of data
ontime	2164.0	Sum of GTIs [s]
livetime	2155.546875	Livetime [s]
ontime4	2164.0	Sum of GTIs [s]
ontime5	2164.0	Sum of GTIs [s]
ontime6	2024.0905592293	Sum of GTIs [s]
ontime7	2164.0	Sum of GTIs [s]
ontime8	2131.9551525712	Sum of GTIs [s]
ontime9	2164.0	Sum of GTIs [s]
l2events	711414	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	2004.091000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	2164.0	Sum of GTIs [s]
caldsver	4.5.1.1	 	ontime4	2164.0	Sum of GTIs [s]
date	2012-08-26T20:58:08	Date and time of file creation	ontime5	2164.0	Sum of GTIs [s]
revision	5	Processing version of data	ontime6	2024.0905592293	Sum of GTIs [s]
			ontime7	2164.0	Sum of GTIs [s]
			ontime8	2131.9551525712	Sum of GTIs [s]
			ontime9	2164.0	Sum of GTIs [s]
			l1events	914355	Number of level 1 events

2.1.3 Events

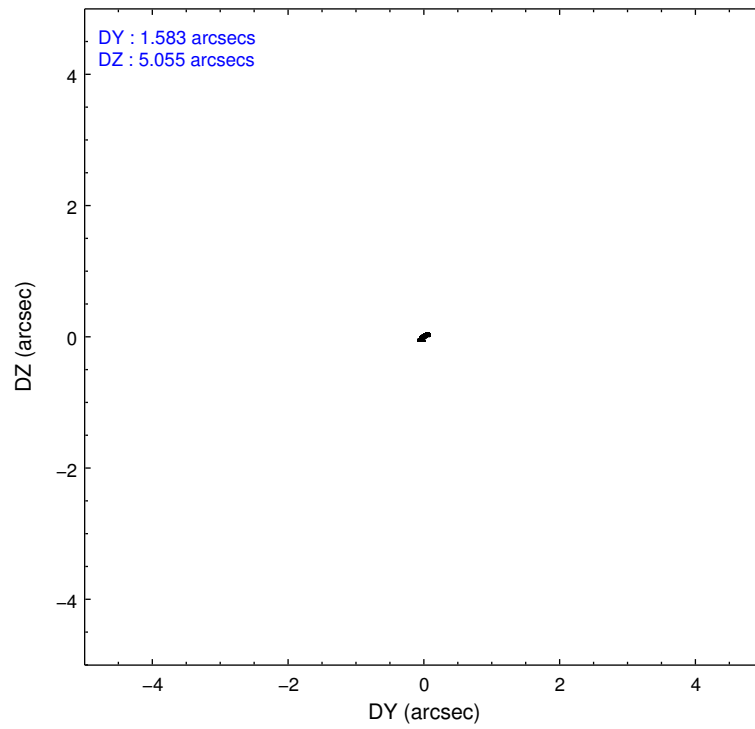
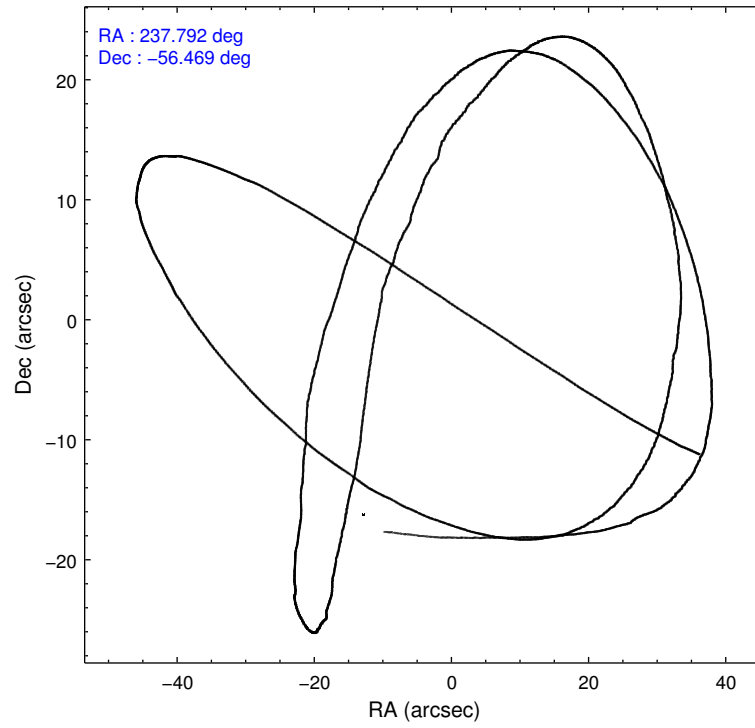
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	23438	65782	303825	242143	250257	28910	grade 0 events	882	9264	1445	15374	4588	1034
rejected events	10039	25134	40029	43773	21877	4843		3%	14%	0%	6%	1%	3%
rejected %	42%	38%	13%	18%	8%	16%	grade 1 events	20	31	22	226	26	14
								0%	0%	0%	0%	0%	0%
							grade 2 events	18373	29194	277121	89327	223116	23324
								78%	44%	91%	36%	89%	80%
							grade 3 events	710	1655	632	9177	1387	688
								3%	2%	0%	3%	0%	2%
							grade 4 events	756	1614	682	8907	1338	734
								3%	2%	0%	3%	0%	2%
							grade 5 events	804	2384	2289	6701	1965	905
								3%	3%	0%	2%	0%	3%
							grade 6 events	1893	21640	21634	112431	17837	2211
								8%	32%	7%	46%	7%	7%
							grade 7 events	0	0	0	0	0	0
								0%	0%	0%	0%	0%	0%

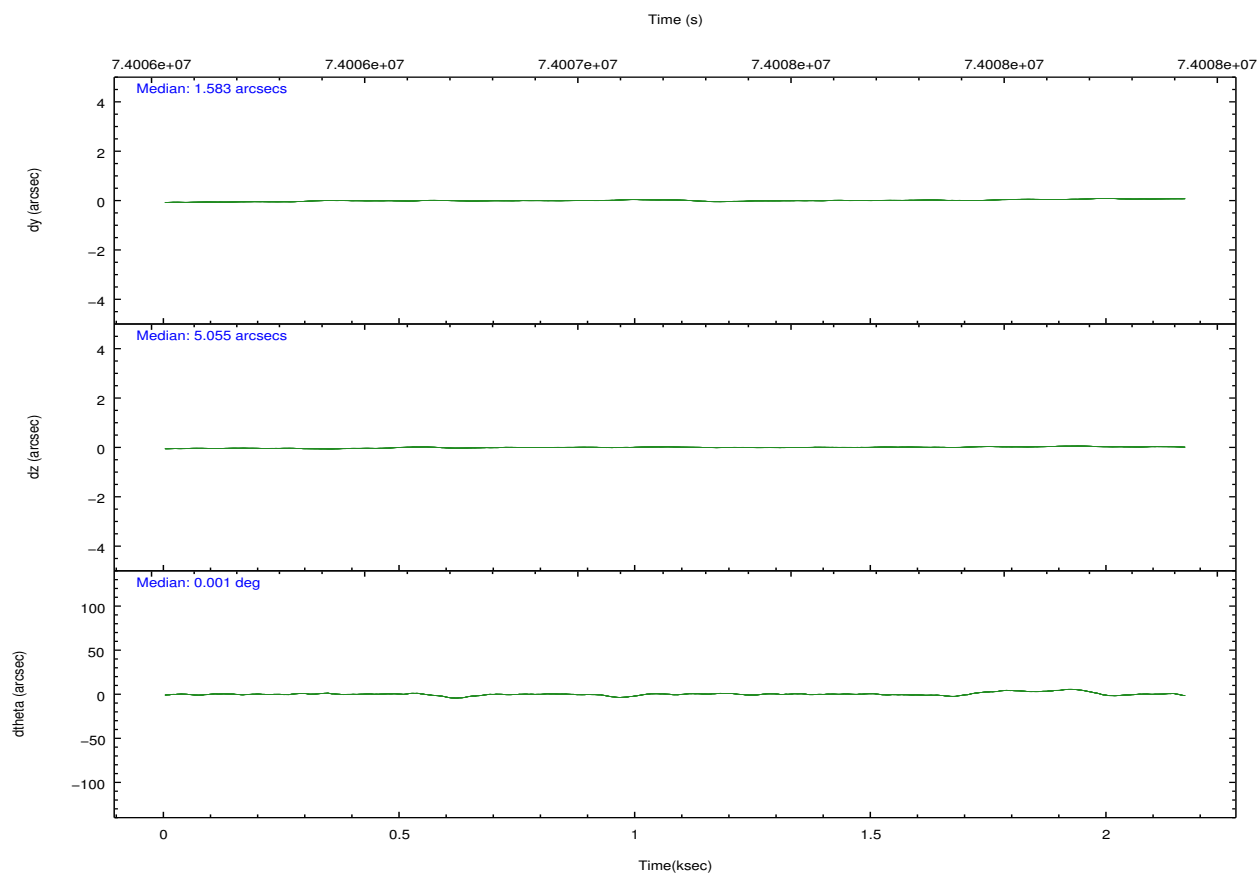
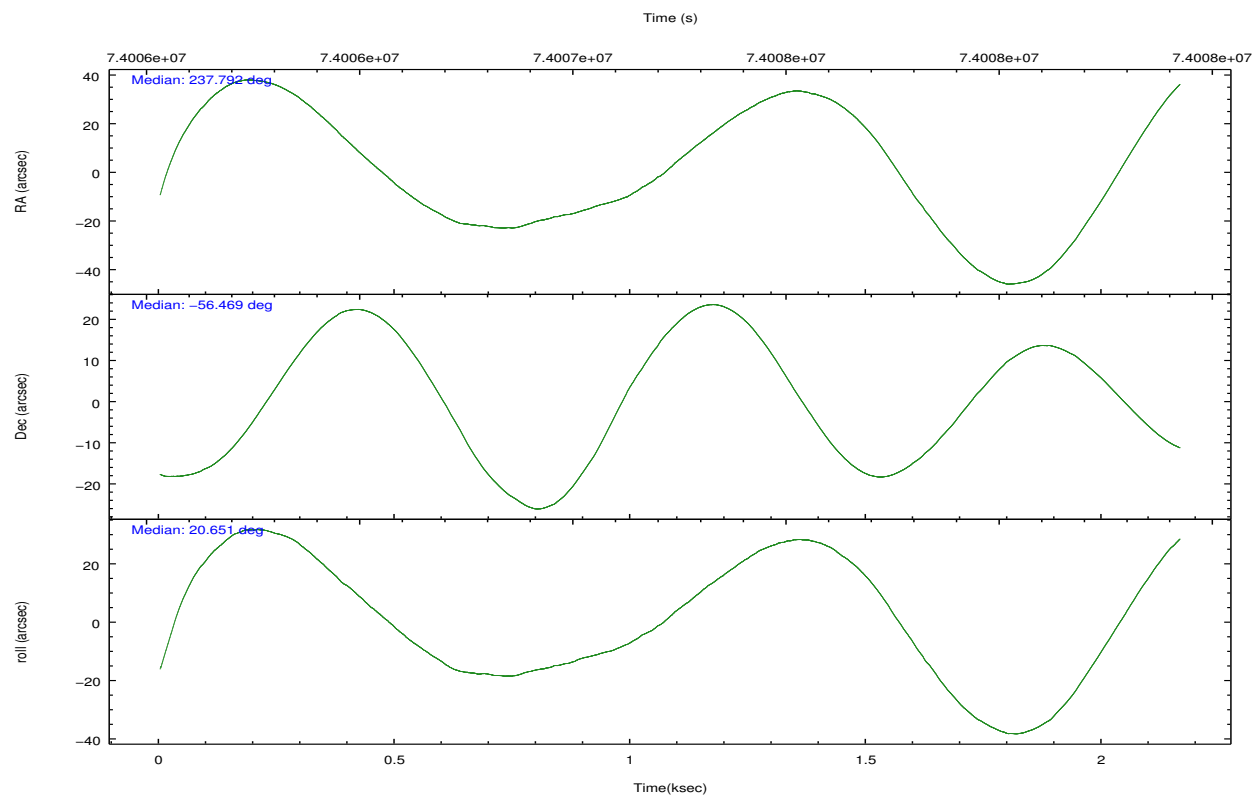
2.2 Compared Parameters

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	237.760142	237.791751738302
[deg] Pointing Dec	-56.490157	-56.46888843032571
[deg] Pointing Roll	20.473360	20.65632140801131
[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)	74006314.184000	74004849.26340599
Observation start date	2000-05-06T13:17:30	2000-05-06T12:54:09
[s] Observation end time (MET)	74008318.184000	74008627.413545
Observation end date	2000-05-06T13:50:54	2000-05-06T13:57:07
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



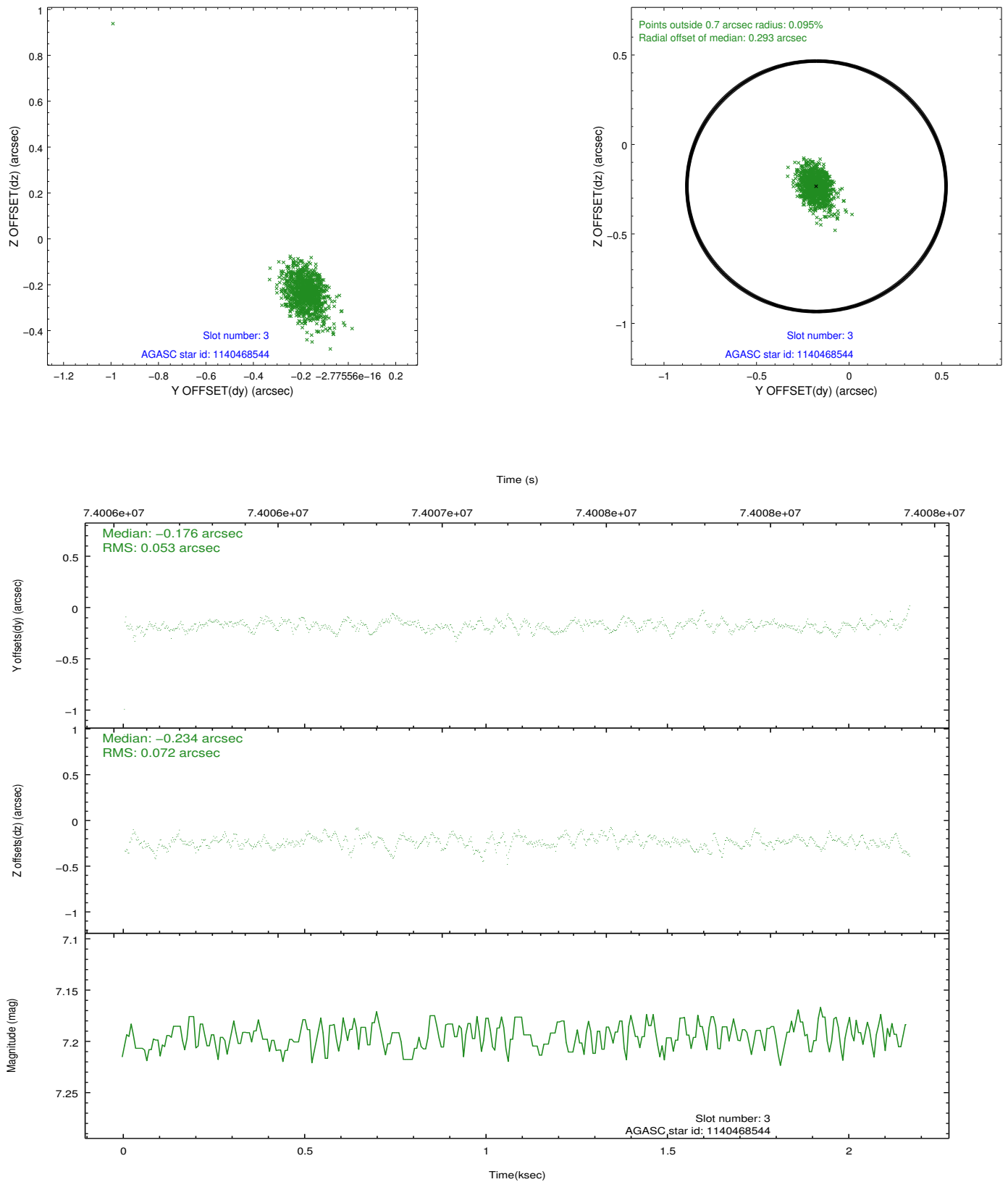


Slot Statistics

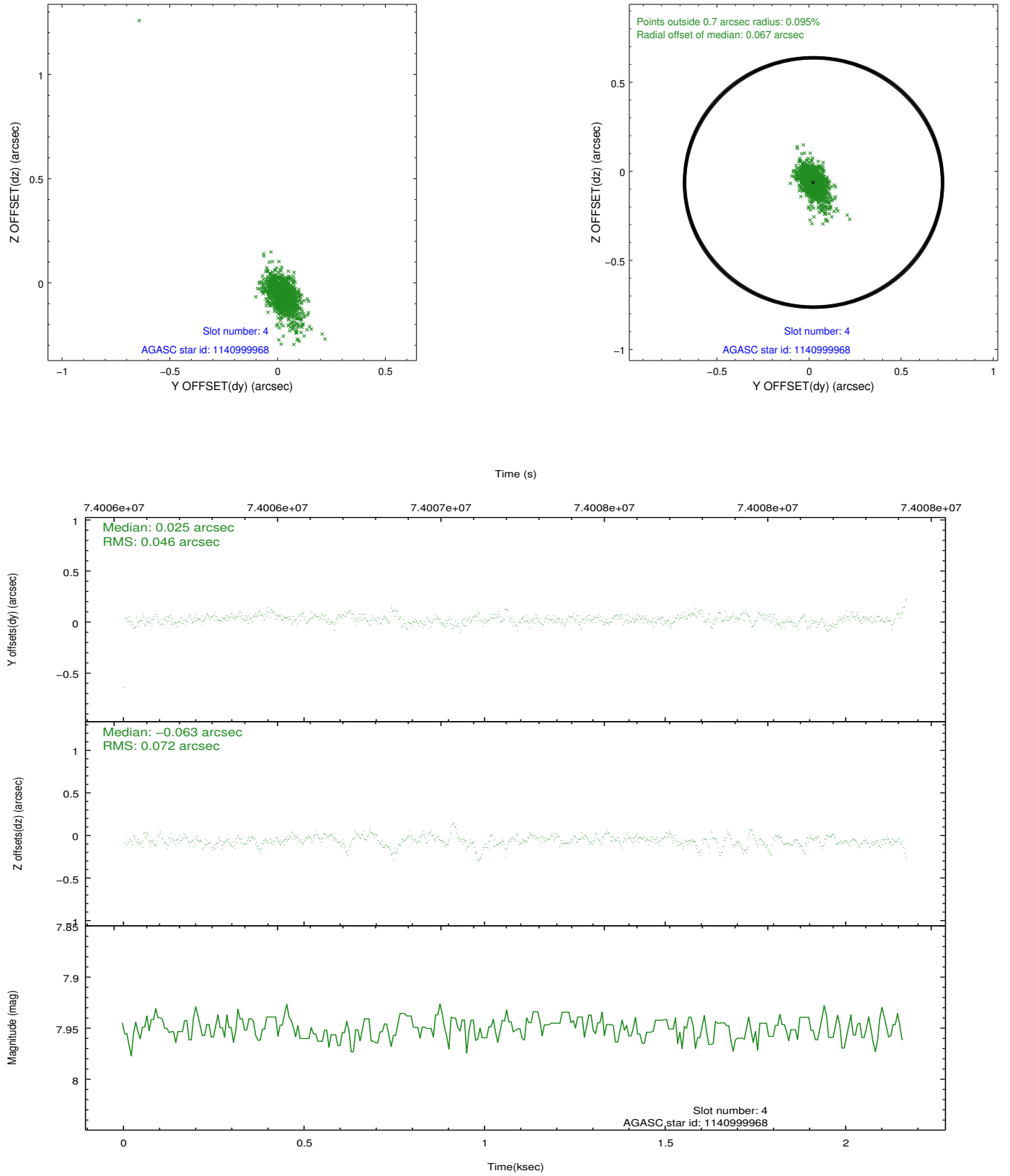
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.22	528	0.044	-0.030	0.016	0.048	0.000000	0.000000	941.10	-1515.71
1	FID	ACIS-S-4	7.23	528	-0.036	0.003	0.017	0.048	0.000000	0.000000	2160.34	385.65
2	FID	ACIS-S-5	7.24	528	-0.035	0.040	0.011	0.035	0.000000	0.000000	-1803.75	383.16
3	GUIDE	1140468544	7.19	1057	-0.176	-0.234	0.082	0.139	237.524626	-55.920475	270.20	2086.00
4	GUIDE	1140999968	7.95	1057	0.025	-0.063	0.069	0.141	238.471952	-56.275988	1598.77	219.34
5	GUIDE	1141004216	8.14	1057	0.024	-0.006	0.082	0.145	237.245988	-56.471011	-934.93	418.17
6	GUIDE	1140989920	8.89	1057	-0.026	0.209	0.097	0.170	237.647305	-57.151120	-1040.88	-2152.31
7	GUIDE	1140984088	9.48	1056	0.147	0.104	0.097	0.174	237.763213	-56.698871	-259.26	-708.53

2.4 Star Slots

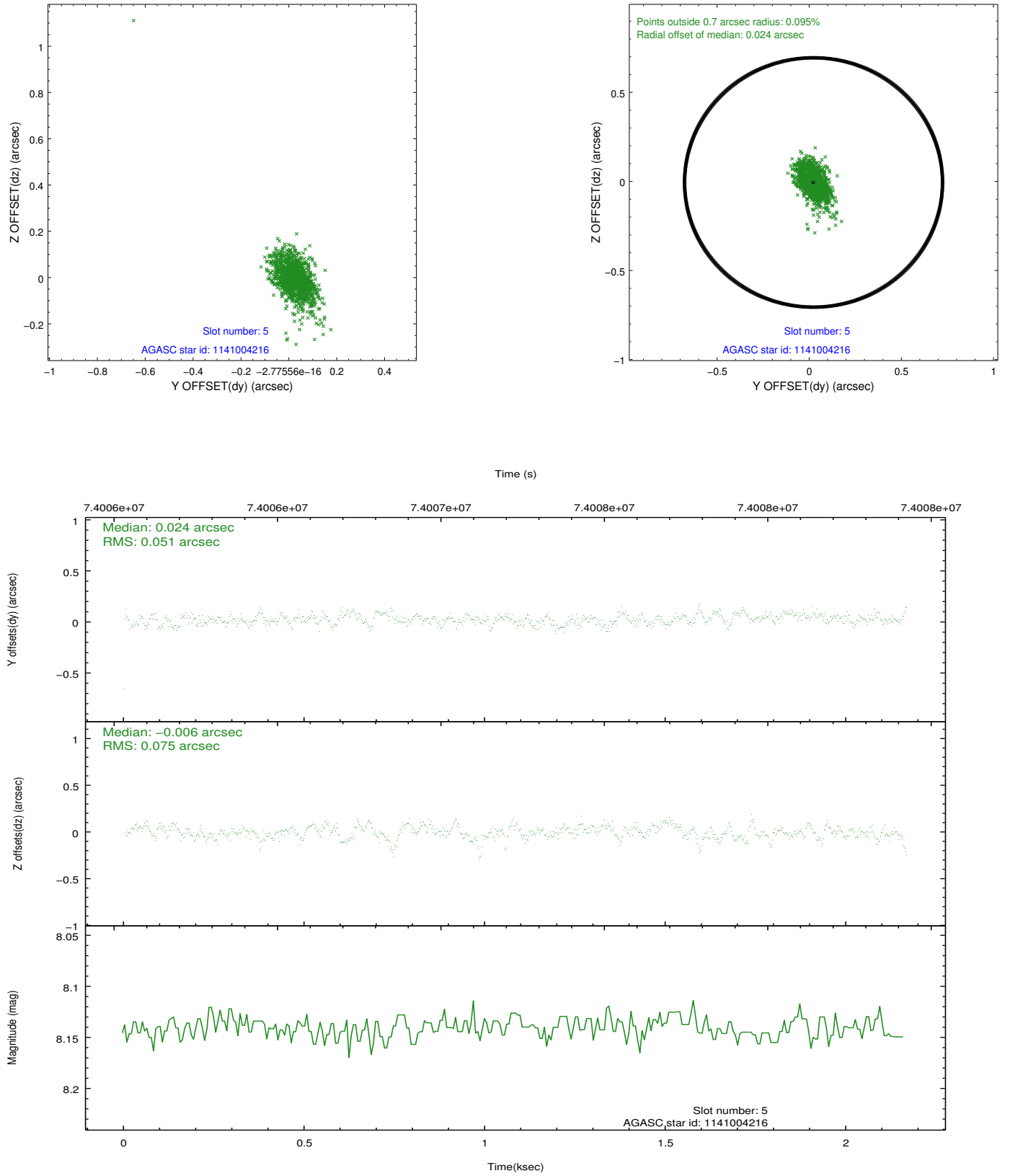
2.4.1 Slot 3



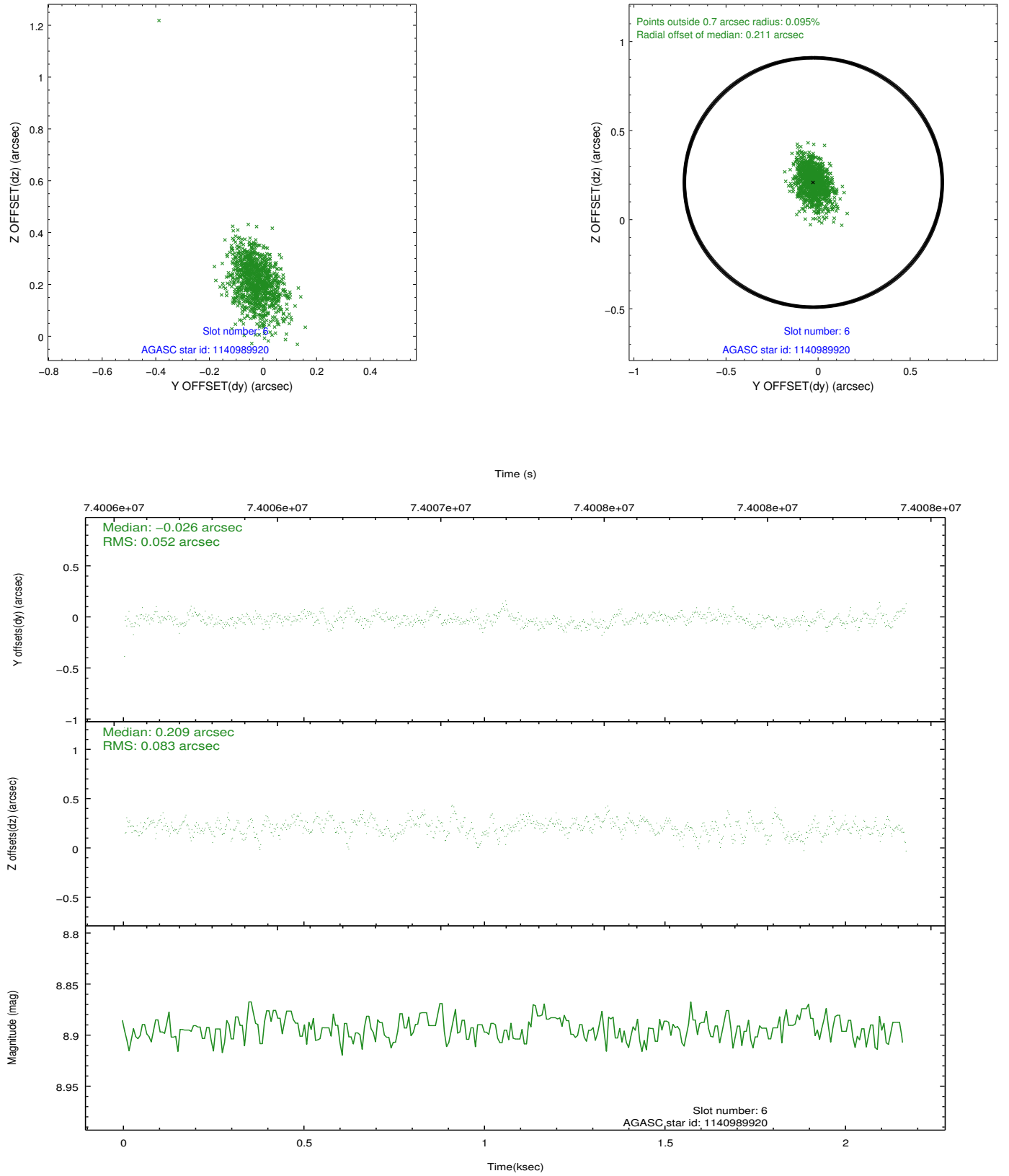
2.4.2 Slot 4



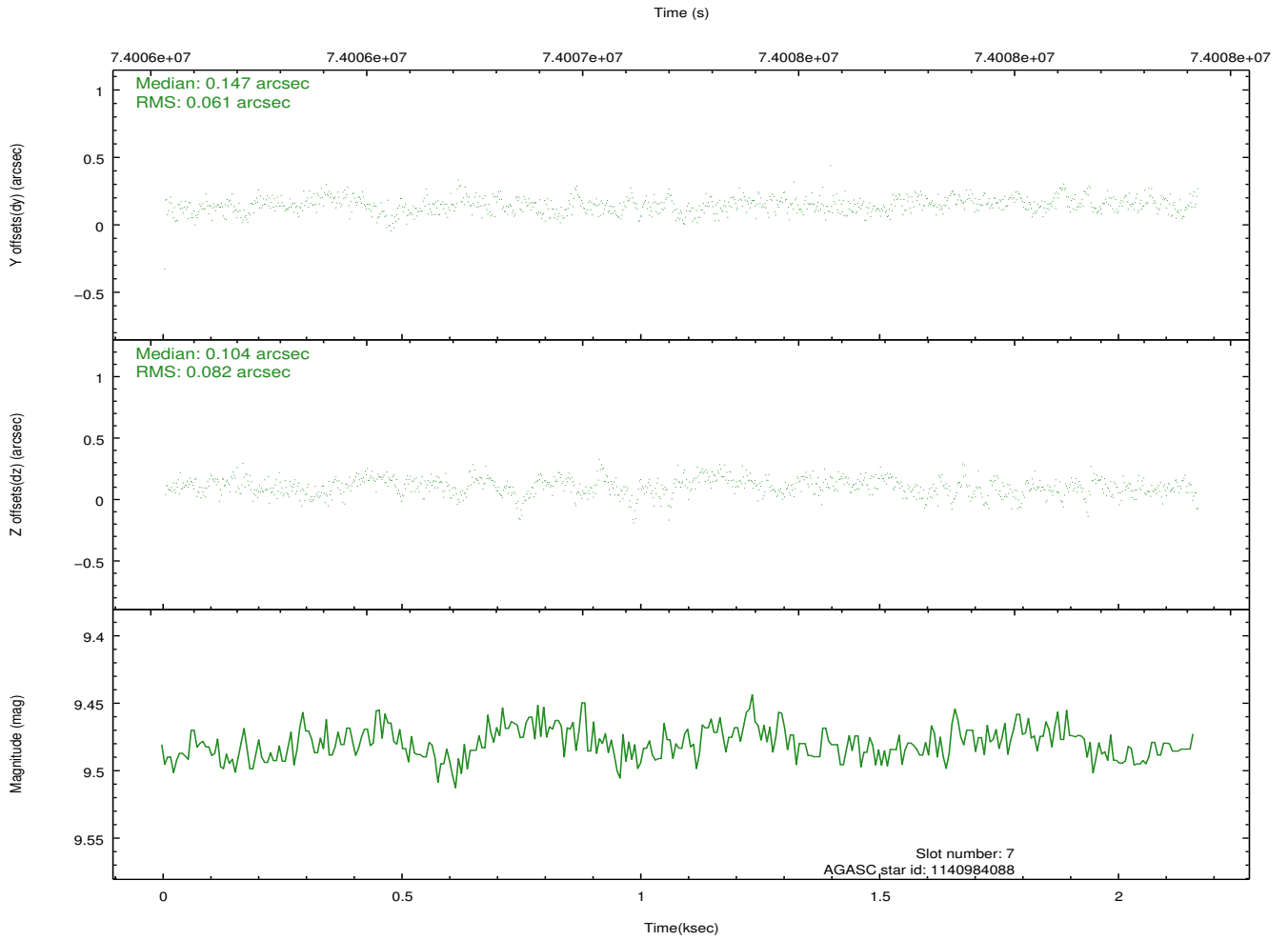
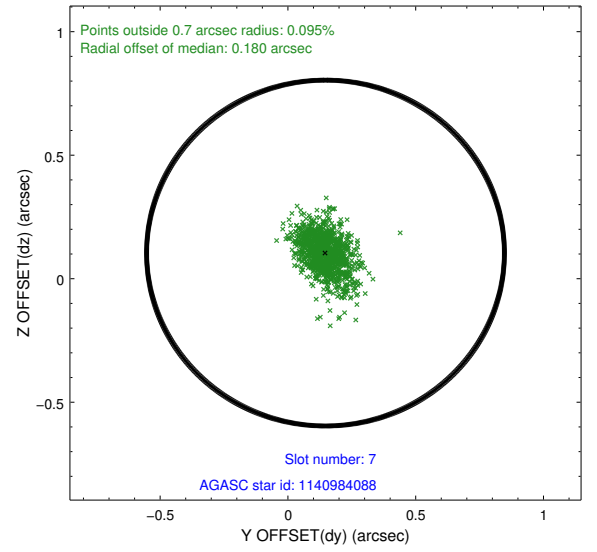
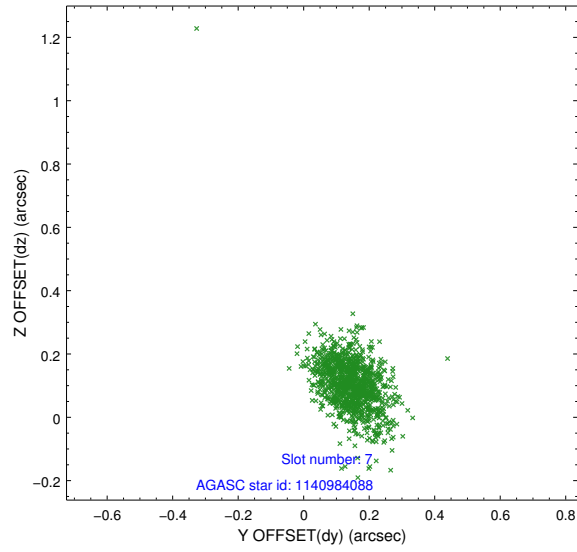
2.4.3 Slot 5



2.4.4 Slot 6

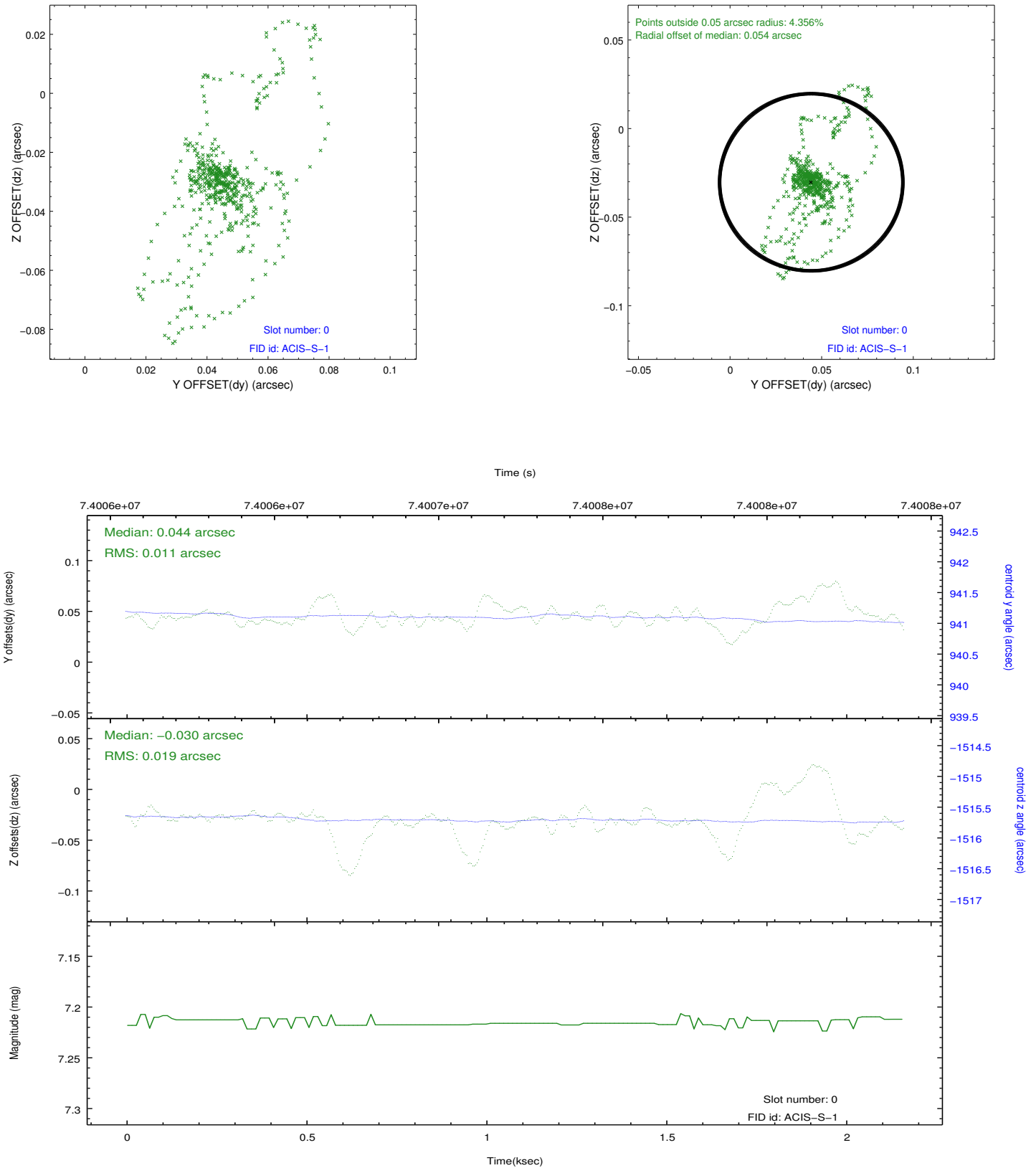


2.4.5 Slot 7

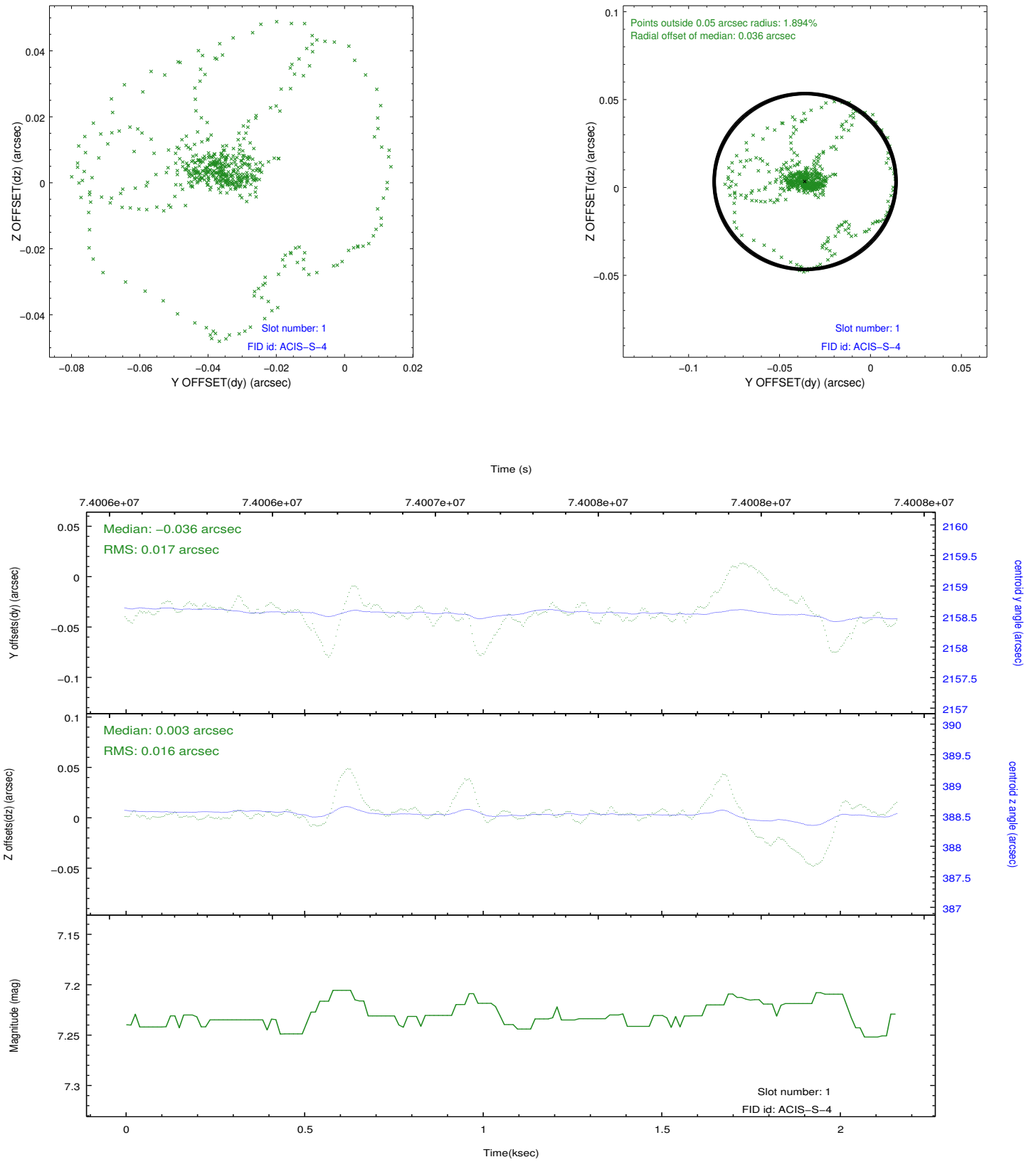


2.5 FID Slots

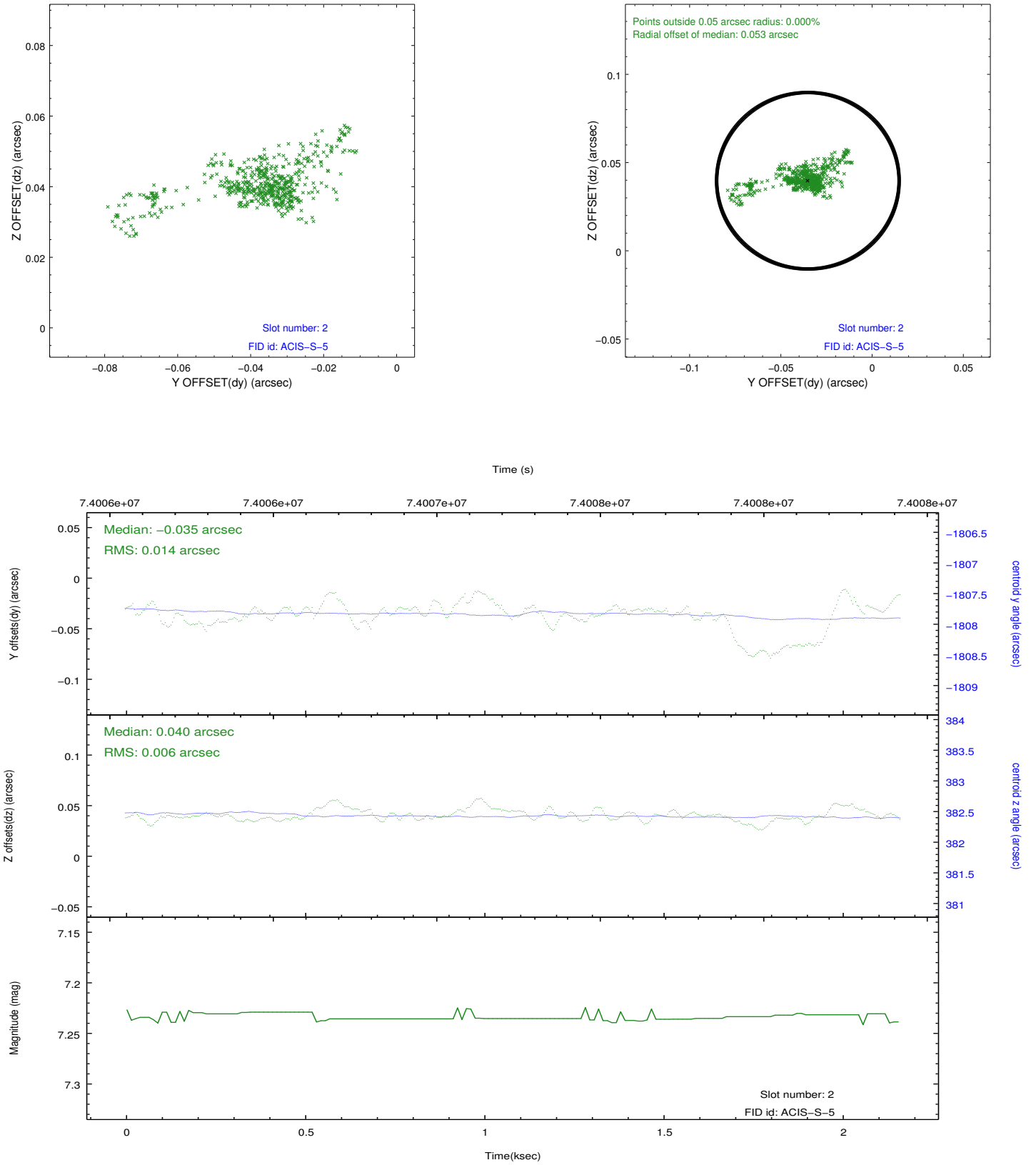
2.5.1 Slot 0



2.5.2 Slot 1

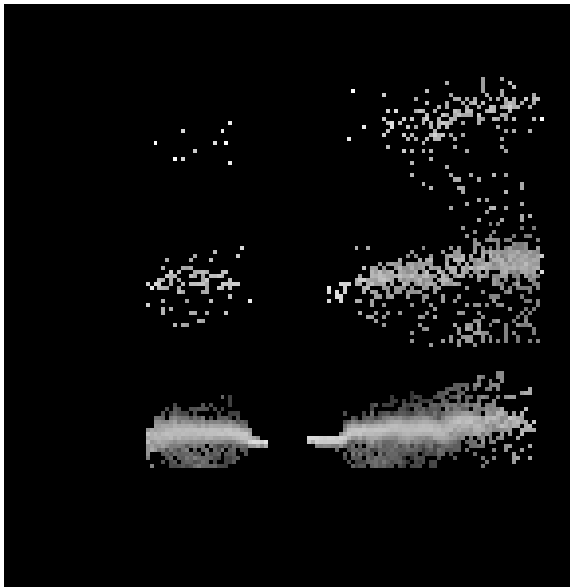


2.5.3 Slot 2

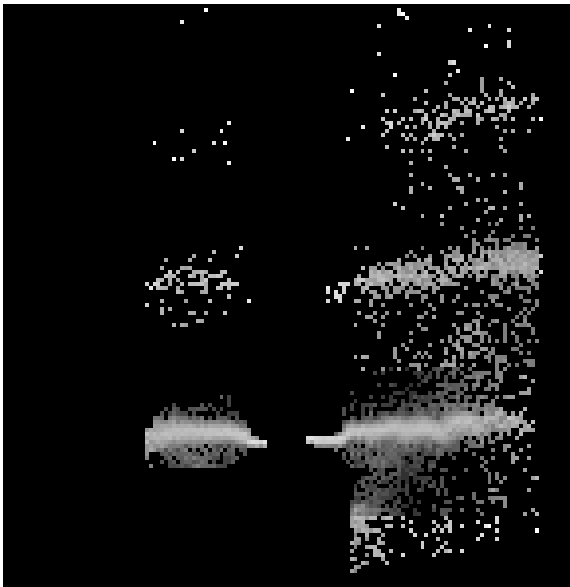


3 Gratings

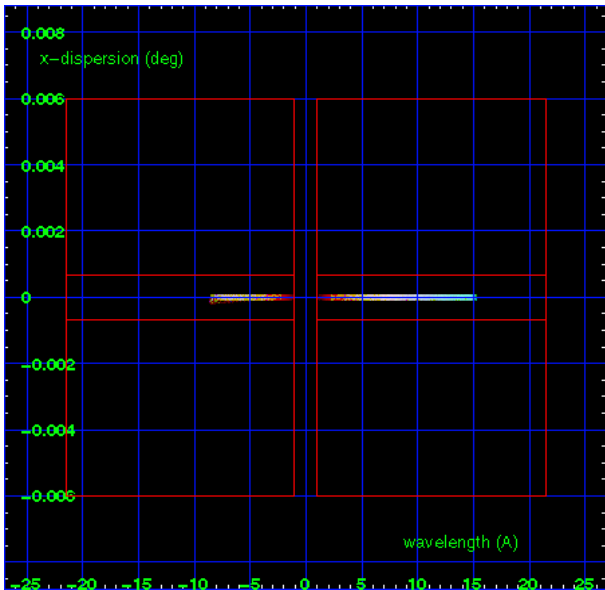
3.1 HEG Arm



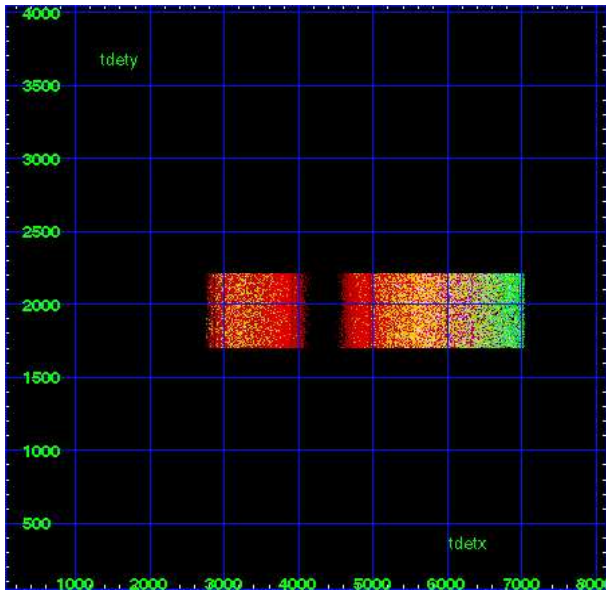
HEG Order Sort 123



HEG Order Sort ALL

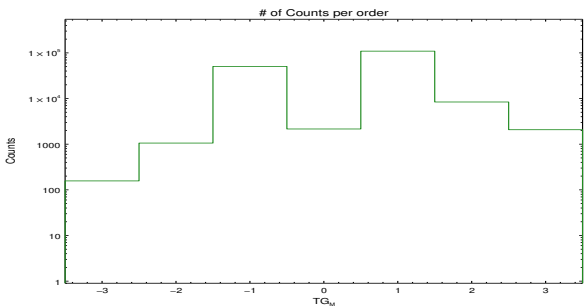


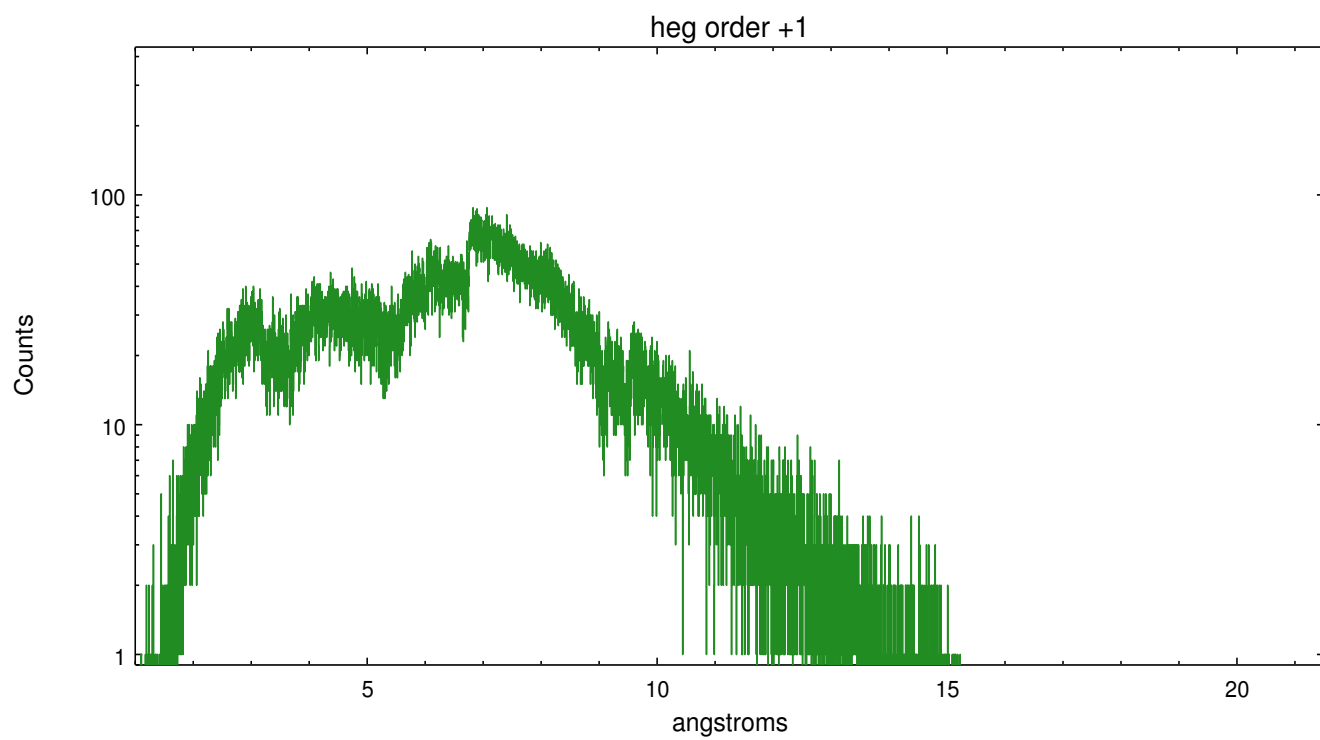
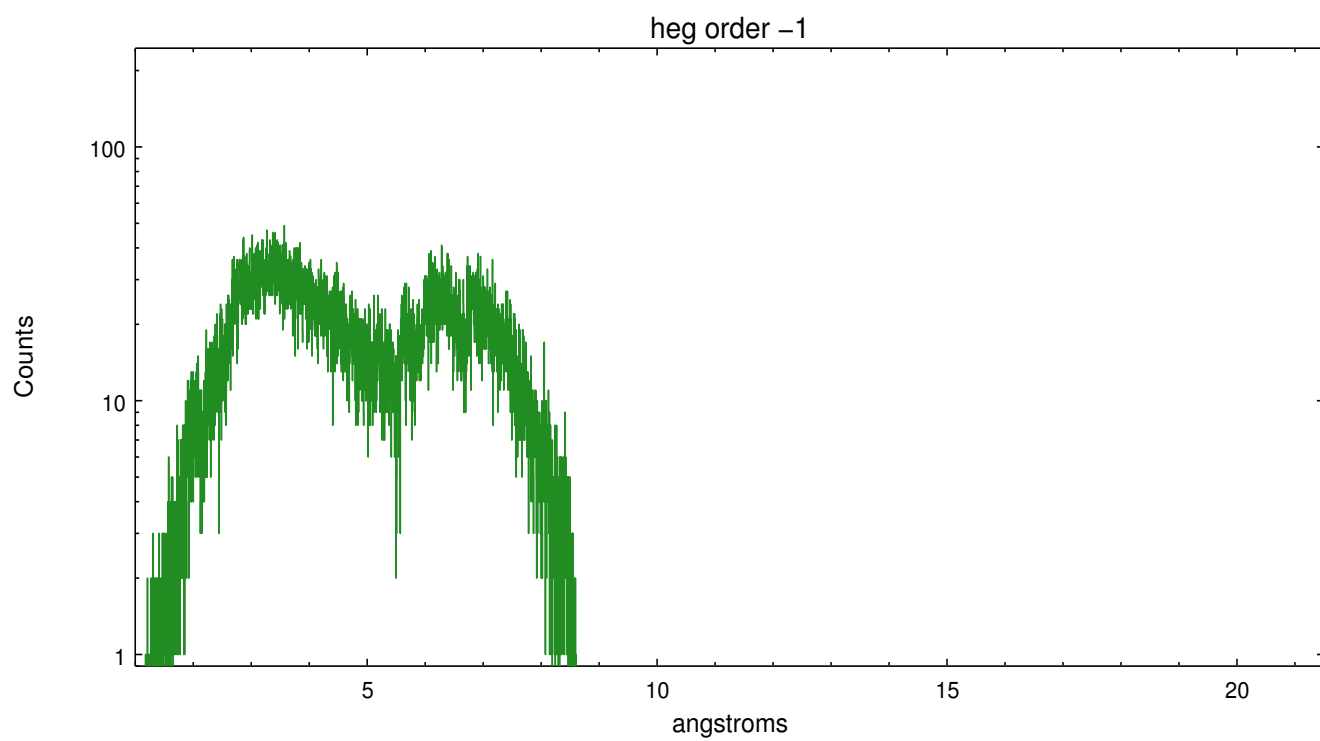
Spot Image HEG



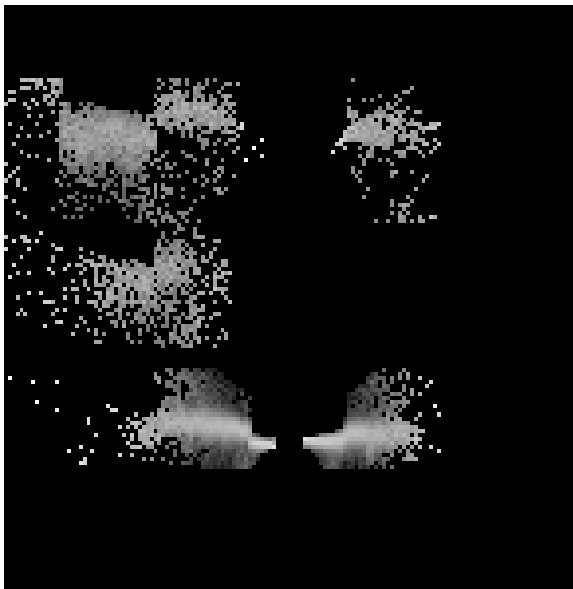
Full Detector HEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	157	1058	50538	2154	109084	8400	2077

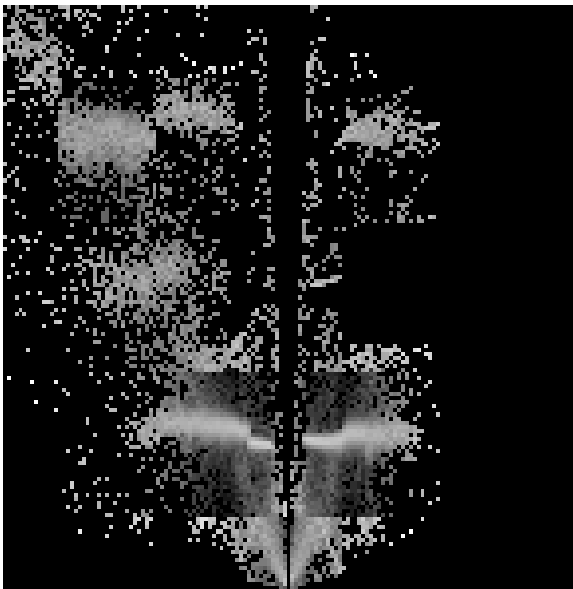




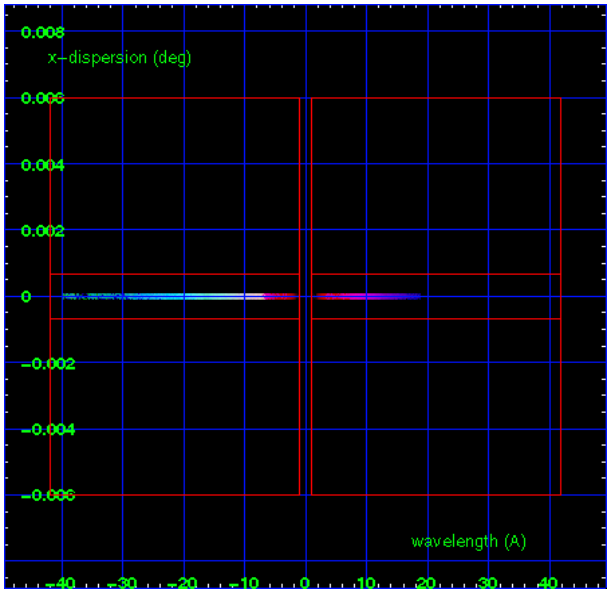
3.2 MEG Arm



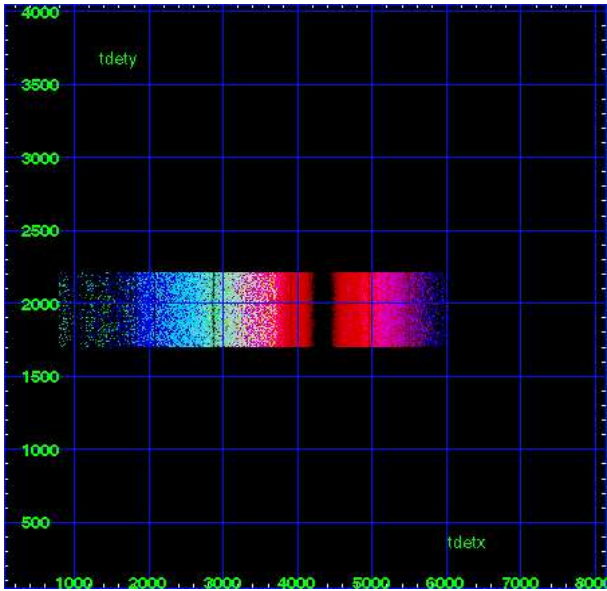
MEG Order Sort 123



MEG Order Sort ALL

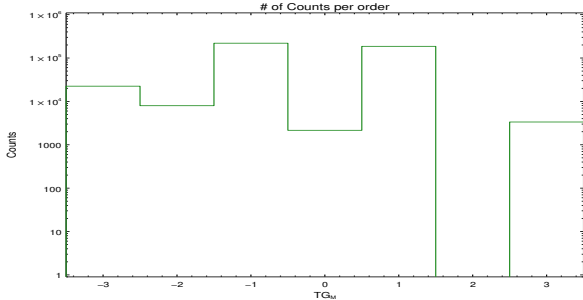


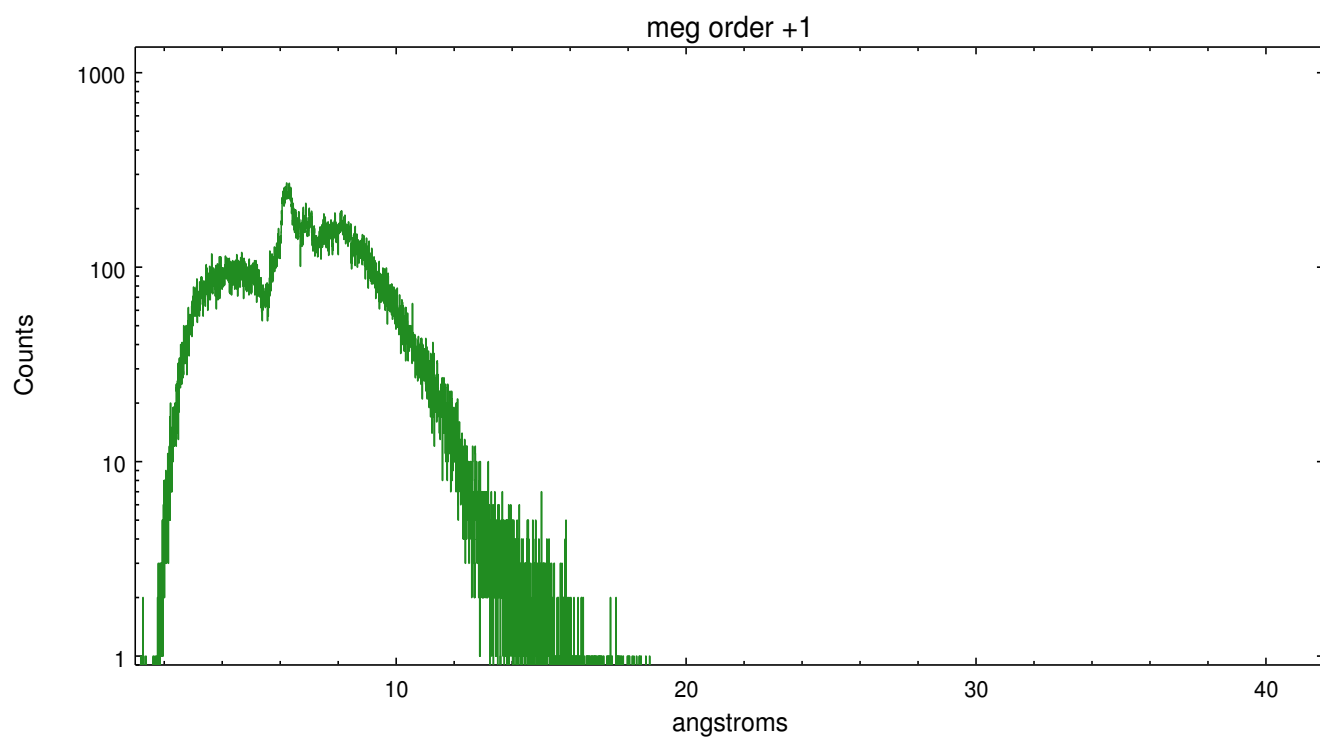
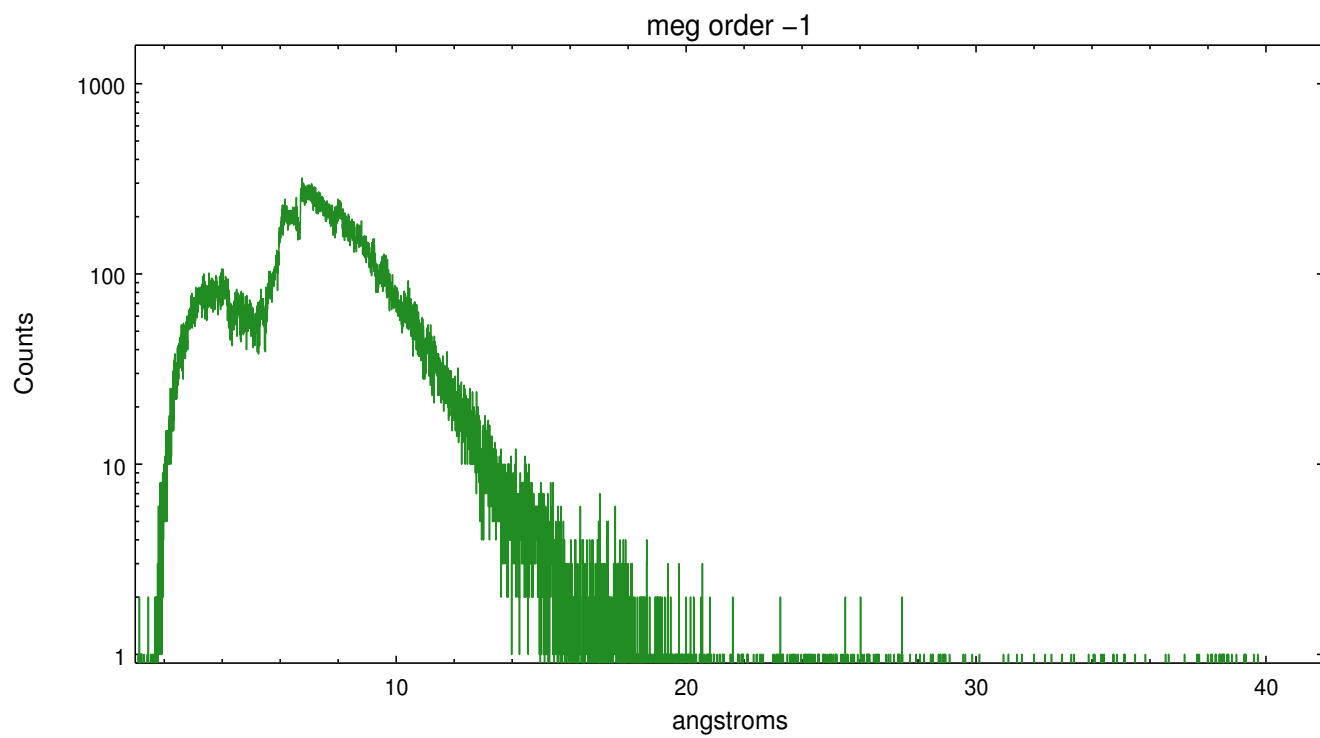
Spot Image MEG



Full Detector MEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	22426	7961	219607	2154	185947	0	3350





A Summary

A.1 Status

V&V Scientist	David Huenemoerder
V&V Date (YYYY-MM-DD)	2012.08.29
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.151

A.2 Comments

Charge time:

Charge time for this ObsId remains at previous value of 2.151 ks.

Note: zeroth order off the array; used target's celestial coordinates to provide the equivalent sky pixel position.