

V&V Reference Report

L2 ASCDS Version : 7.6.9

Observation 3147 - L2 Version 001
Chandra X-Ray Center

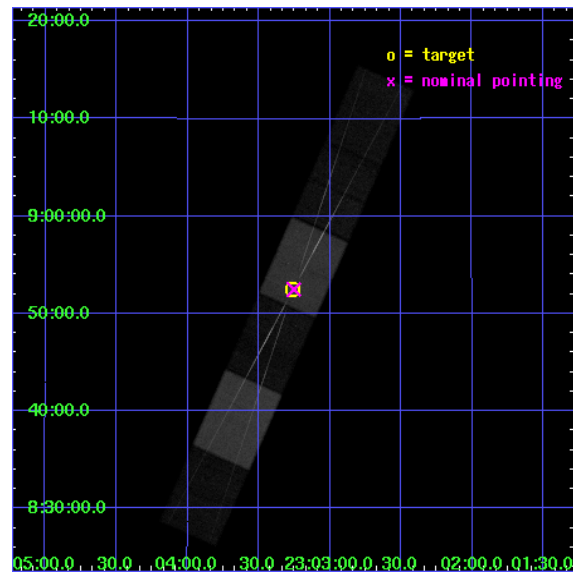
L2 Processing Date : Oct 17 2006

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1 Front

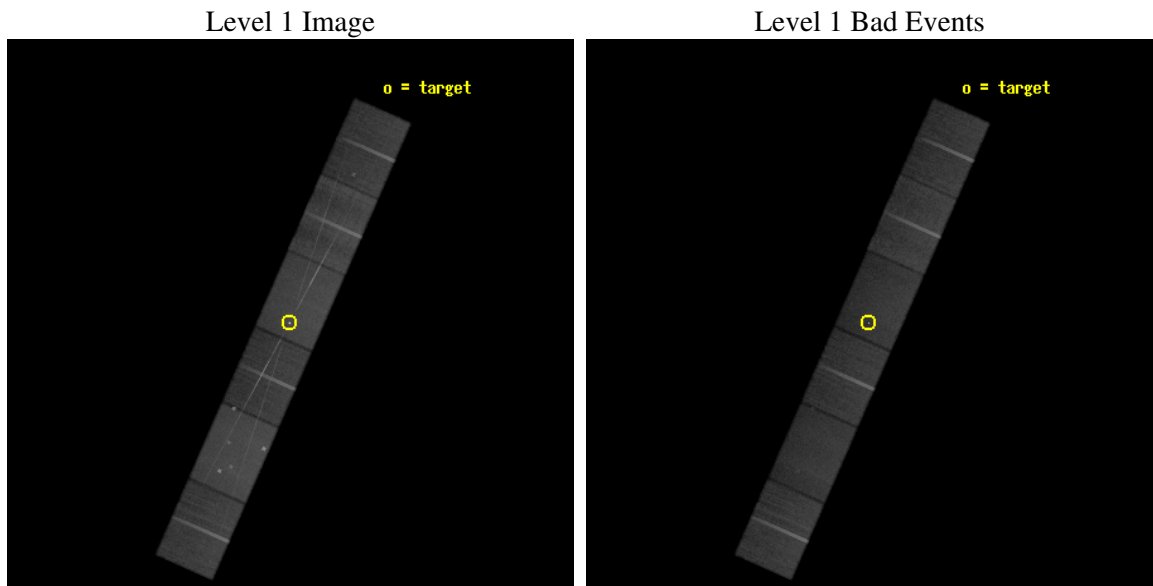
seq_num	700586
obs_id	3147
title	SIMULTANEOUS CHANDRA-HST OBSERVATIONS OF SEYFERT 1 GALAXY NGC 7469
observer	Prof. Claude Canizares
object	NGC 7469
dtcycle	0
cycle	P
ra_targ	345.815417
dec_targ	8.874056
ra_nom	345.8132661943
dec_nom	8.8747573793484
roll_nom	293.78390624192
revision	2
ontime	69757.5
livetime	68630.855870037
ontime4	69757.5
ontime5	69757.5
ontime6	69757.5
ontime7	69757.5
ontime8	69757.5
ontime9	69757.5
l2events	576504



2 OBI

2.1 OBI

2.1.1 Images

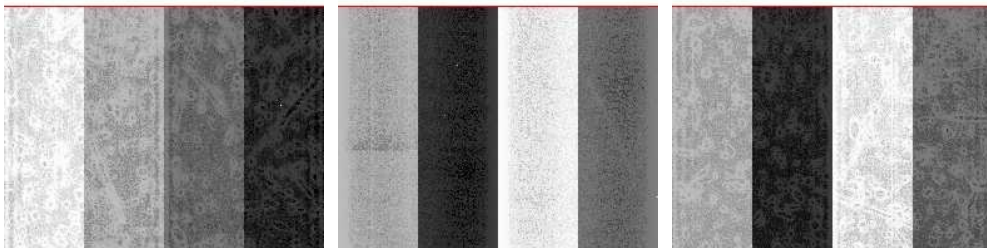


2.1.2 Bias

Chip 4

Chip 5

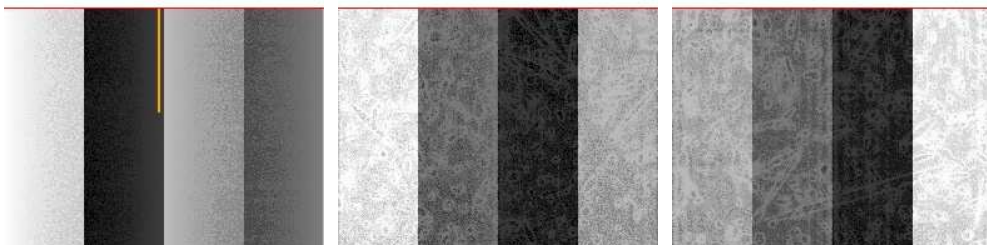
Chip 6



Chip 7

Chip 8

Chip 9



2.1.3 Parameters

obi_num	0
ascdsver	7.6.9
caldsver	3.2.3
date	2006-10-15T06:06:10
revision	2

sched_exp_time	70000.000000
ontime	69760.85493961
ontime4	69760.85493961
ontime5	69760.85493961
ontime6	69760.854909718
ontime7	69760.85493961
ontime8	69760.854959518
ontime9	69760.854909718
l1events	2455959

2.1.4 Events

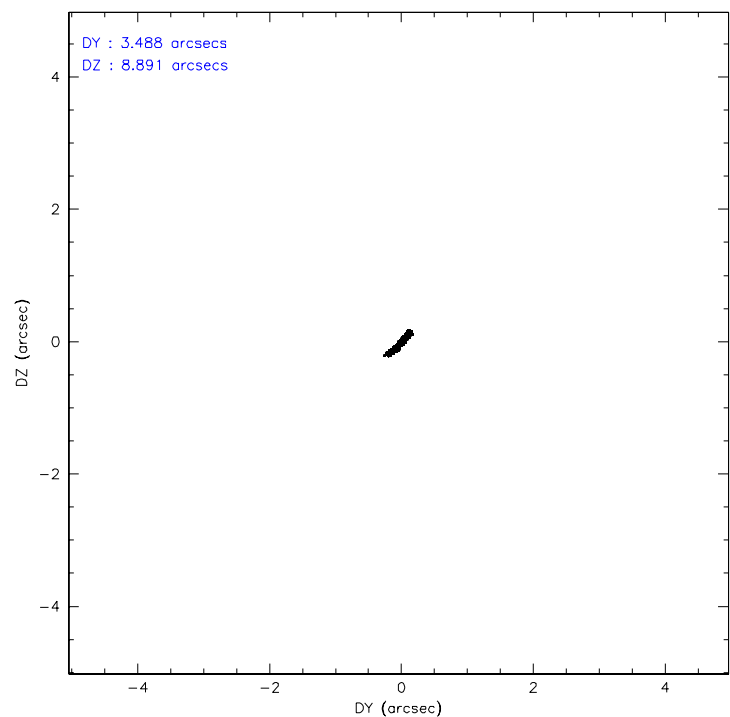
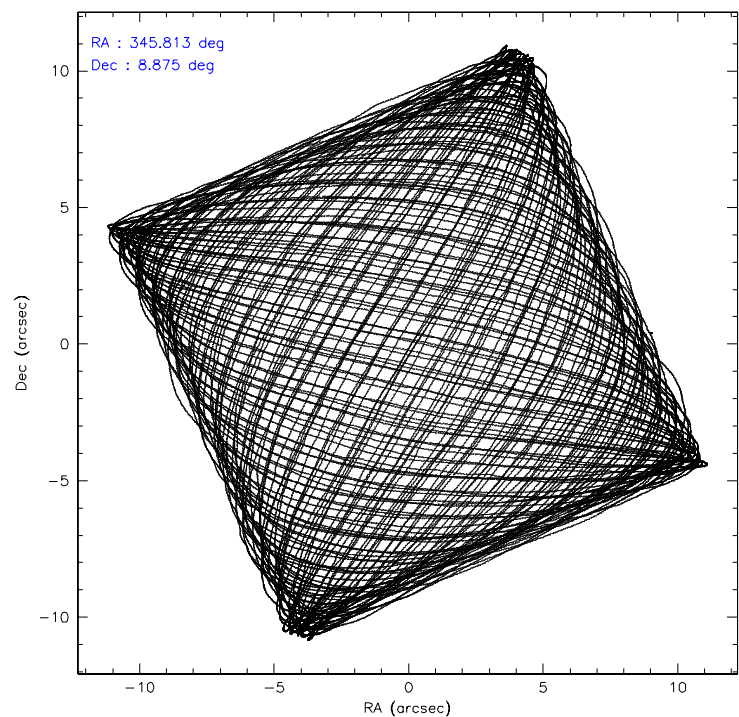
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	369747	489608	356414	474673	433994	331523
rejected events	327029	266164	296965	269865	336337	288242
rejected %	88%	54%	83%	56%	77%	86%

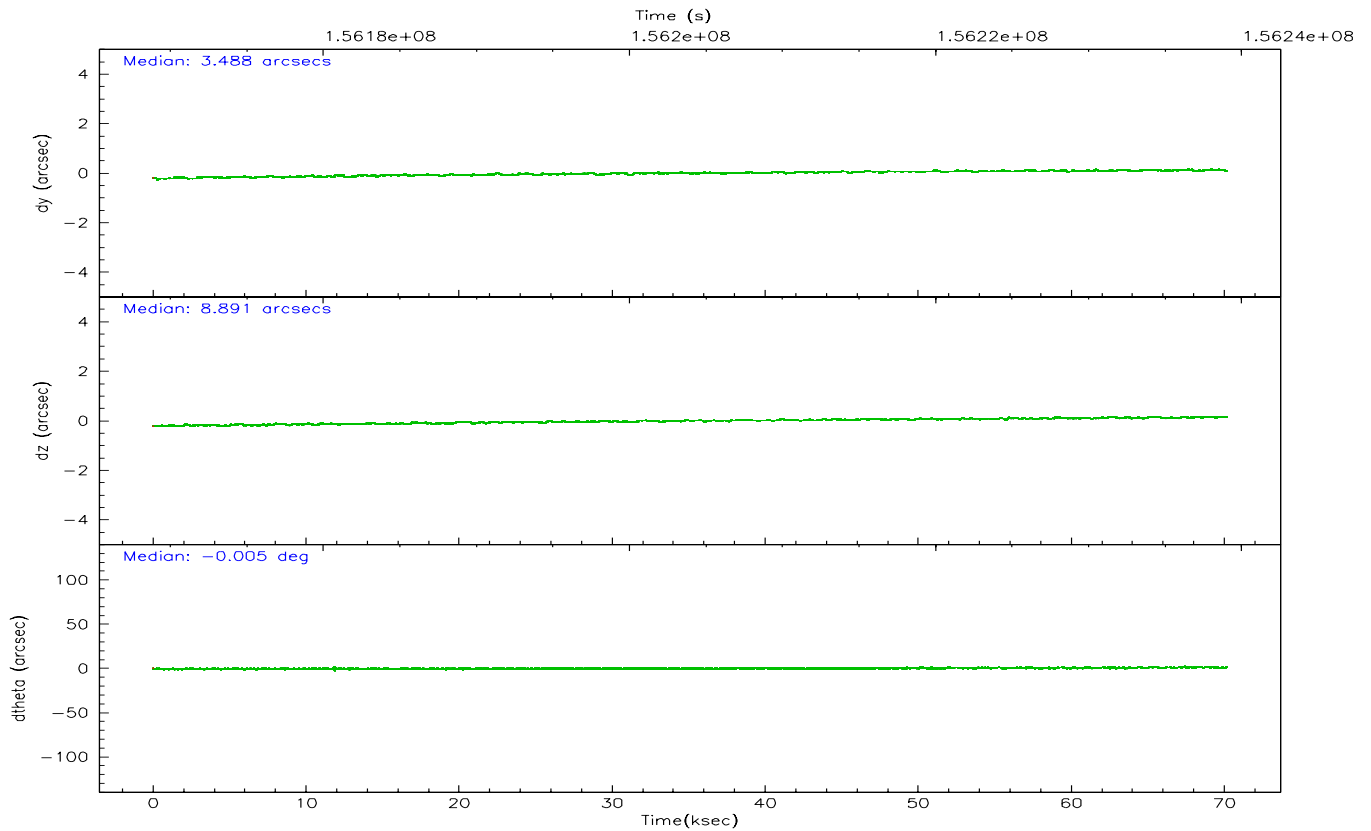
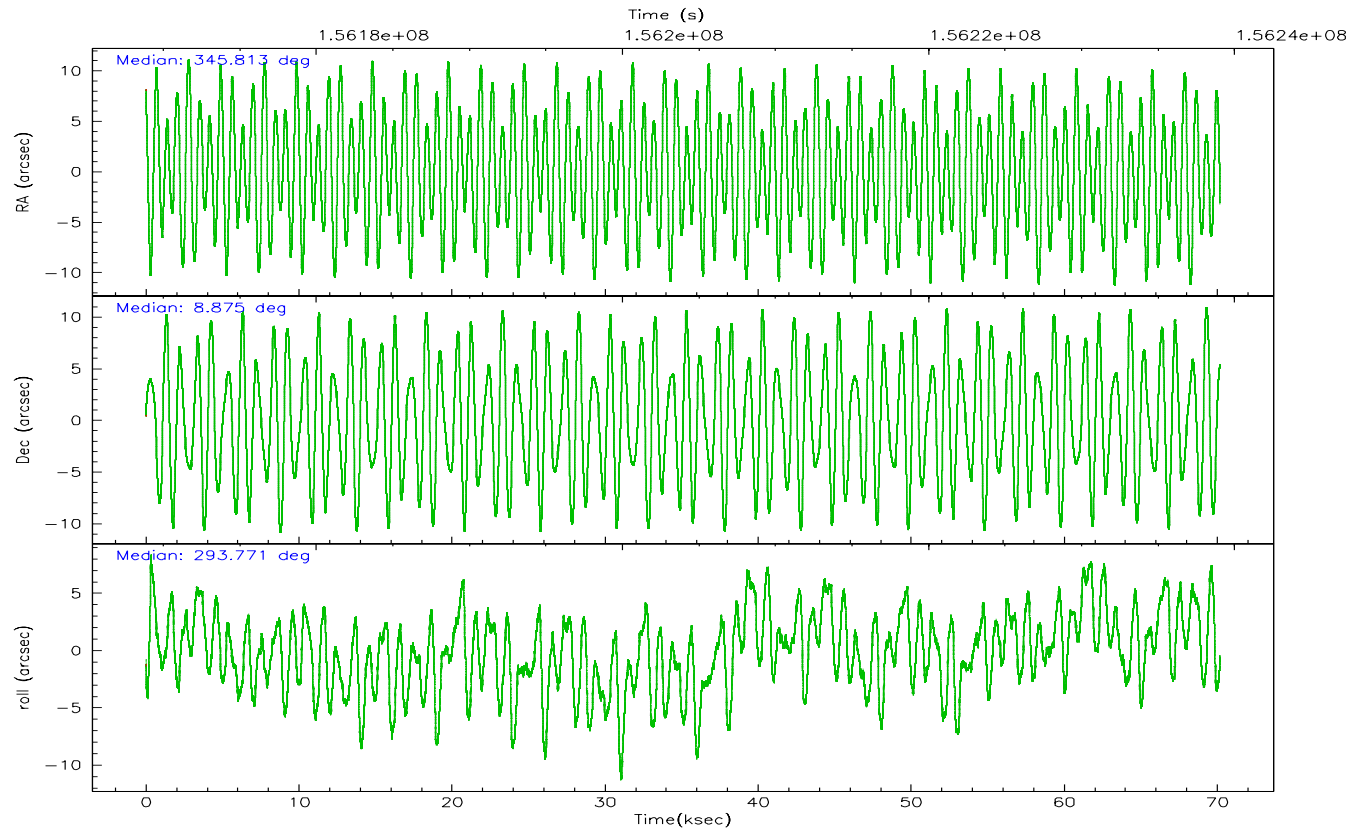
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	18762	24878	31494	16777	35858	18900
	5%	5%	8%	3%	8%	5%
grade 1 events	230	695	167	525	246	156
	0%	0%	0%	0%	0%	0%
grade 2 events	8814	65610	9968	49847	19606	8039
	2%	13%	2%	10%	4%	2%
grade 3 events	4378	6235	4972	13758	10180	4462
	1%	1%	1%	2%	2%	1%
grade 4 events	4263	5899	4692	13259	9344	4252
	1%	1%	1%	2%	2%	1%
grade 5 events	13723	24502	14730	32971	18641	15381
	3%	5%	4%	6%	4%	4%
grade 6 events	6502	120828	8324	111178	22670	7628
	1%	24%	2%	23%	5%	2%
grade 7 events	313075	240961	282067	236358	317449	272705
	84%	49%	79%	49%	73%	82%

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	345.790818	345.8132661943018	Subarray requested	CUSTOM	CUSTOM
Pointing Dec	8.890525	8.874757379348445	Subarray start row	1	1
Pointing Roll	293.630745	293.7839062419241	Subarray row count	774	774
SIM focus pos (mm)	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
SIM defocus (mm)	0	0.001444936568705701	Primary exposure time	0.000000	2.5
SIM translation stage pos (mm)	-187.132523	-187.1228876879999			
SIM translation stage offset (mm)	-3	-3.009634895007935			
Observation start time	156169052.184000	156168676.71307			
Observation start date	2002-12-13T12:16:28	2002-12-13T12:11:16			
Observation end time	156239052.184000	156239777.89103			
Observation end date	2002-12-14T07:43:08	2002-12-14T07:56:17			
Read mode	TIMED	TIMED			

2.3 Aspect



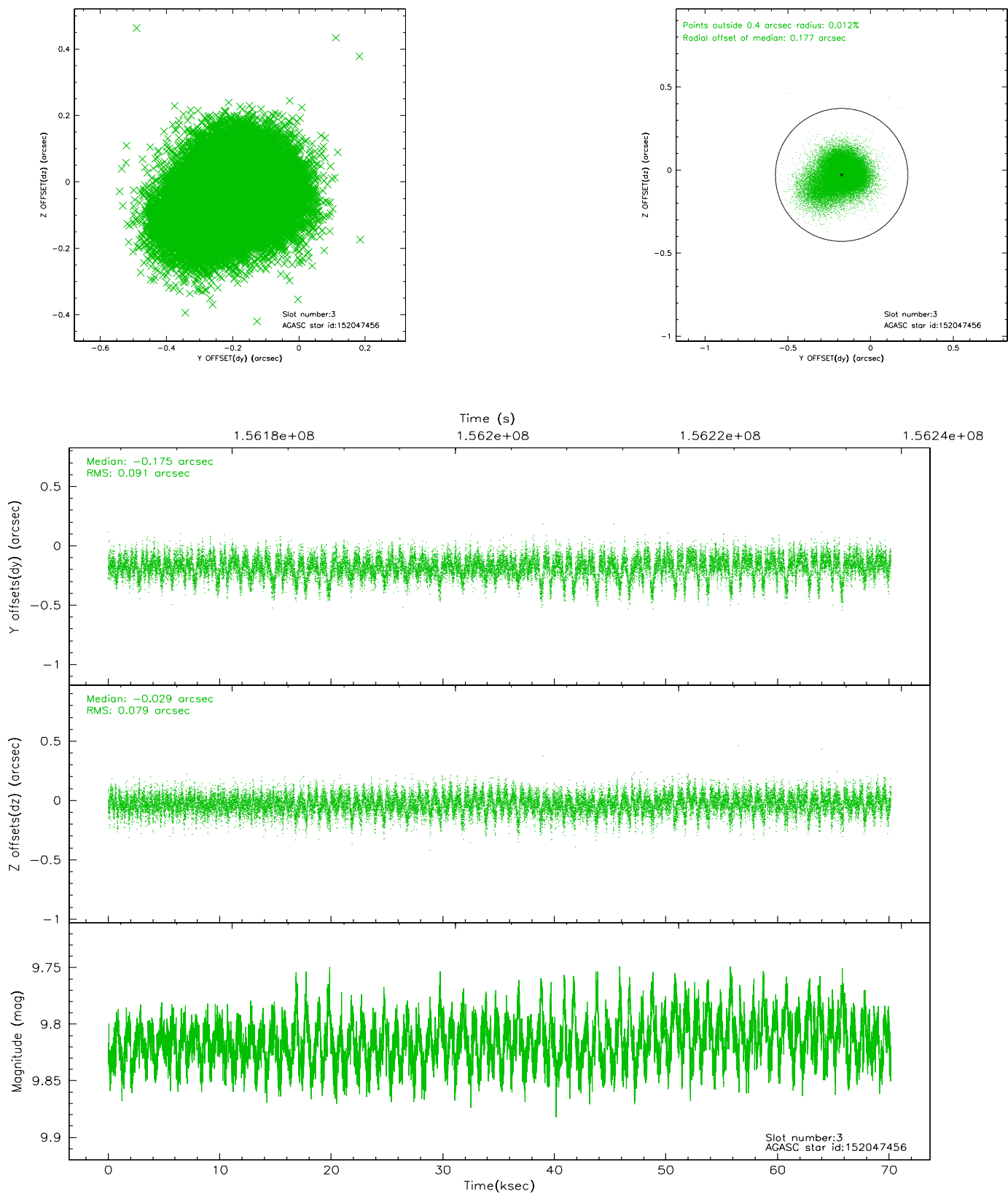


Slot Statistics

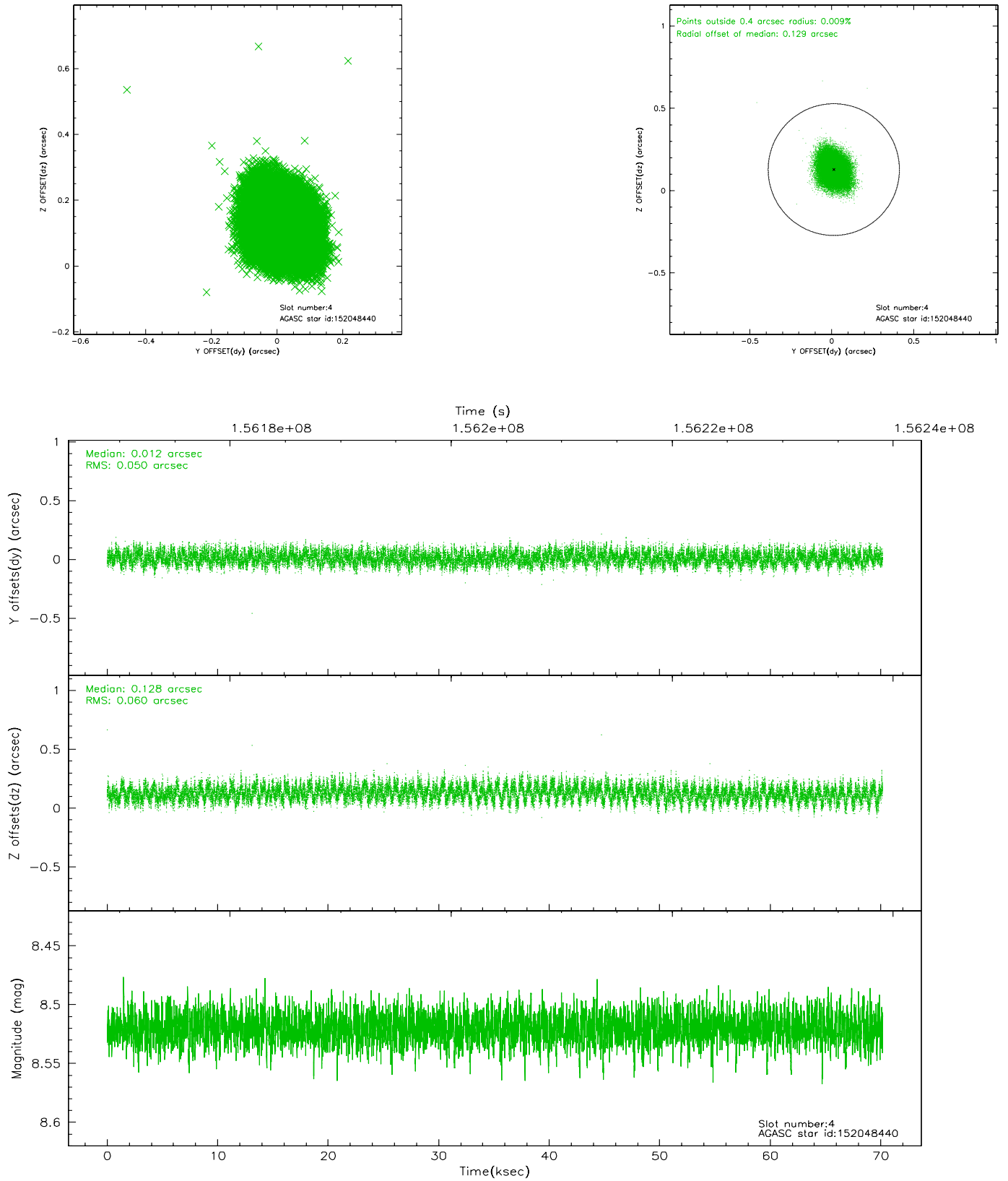
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	17118	-0.039	-0.007	0.010	0.017	0.000000	0.000000	-755.94	-1792.25
1	FID	ACIS-S-4	7.20	17117	-0.001	0.022	0.013	0.026	0.000000	0.000000	2157.37	116.35
2	FID	ACIS-S-5	7.23	17120	0.012	-0.005	0.009	0.016	0.000000	0.000000	-1808.83	109.87
3	GUIDE	152047456	9.82	34145	-0.175	-0.029	0.124	0.217	345.404712	9.366650	-2119.85	-569.29
4	GUIDE	152048440	8.52	34237	0.012	0.128	0.084	0.134	346.200519	9.070077	-8.59	1594.20
5	GUIDE	152051576	8.87	34218	0.048	-0.194	0.079	0.128	345.475827	8.657019	321.60	-1363.66
6	GUIDE	152052152	9.82	34190	0.100	0.197	0.124	0.207	346.135010	8.920573	391.82	1165.60
7	GUIDE	152053112	8.16	34230	0.023	-0.097	0.063	0.107	345.154715	8.750450	-445.58	-2274.75

2.4 Star Slots

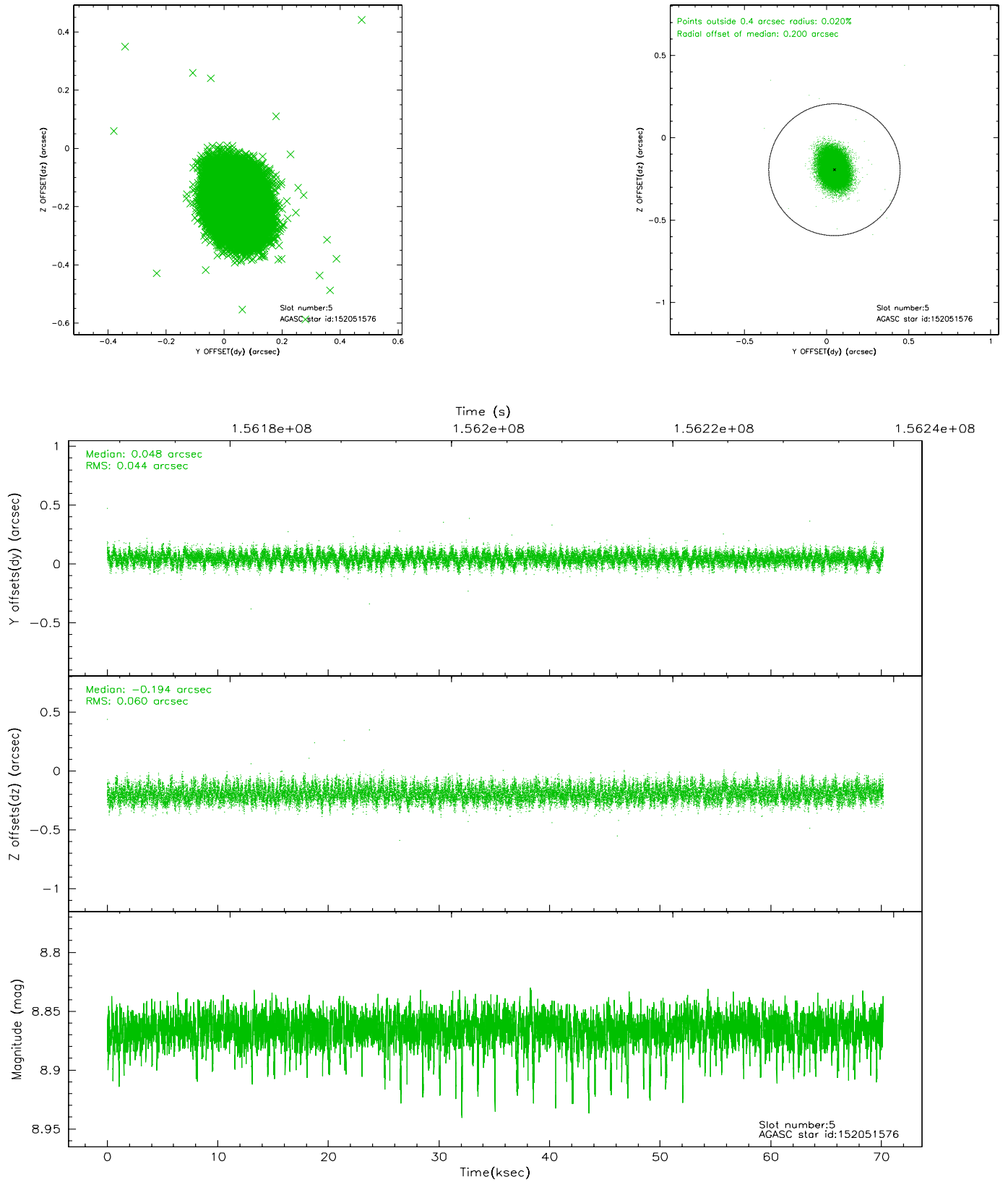
2.4.1 Slot 3



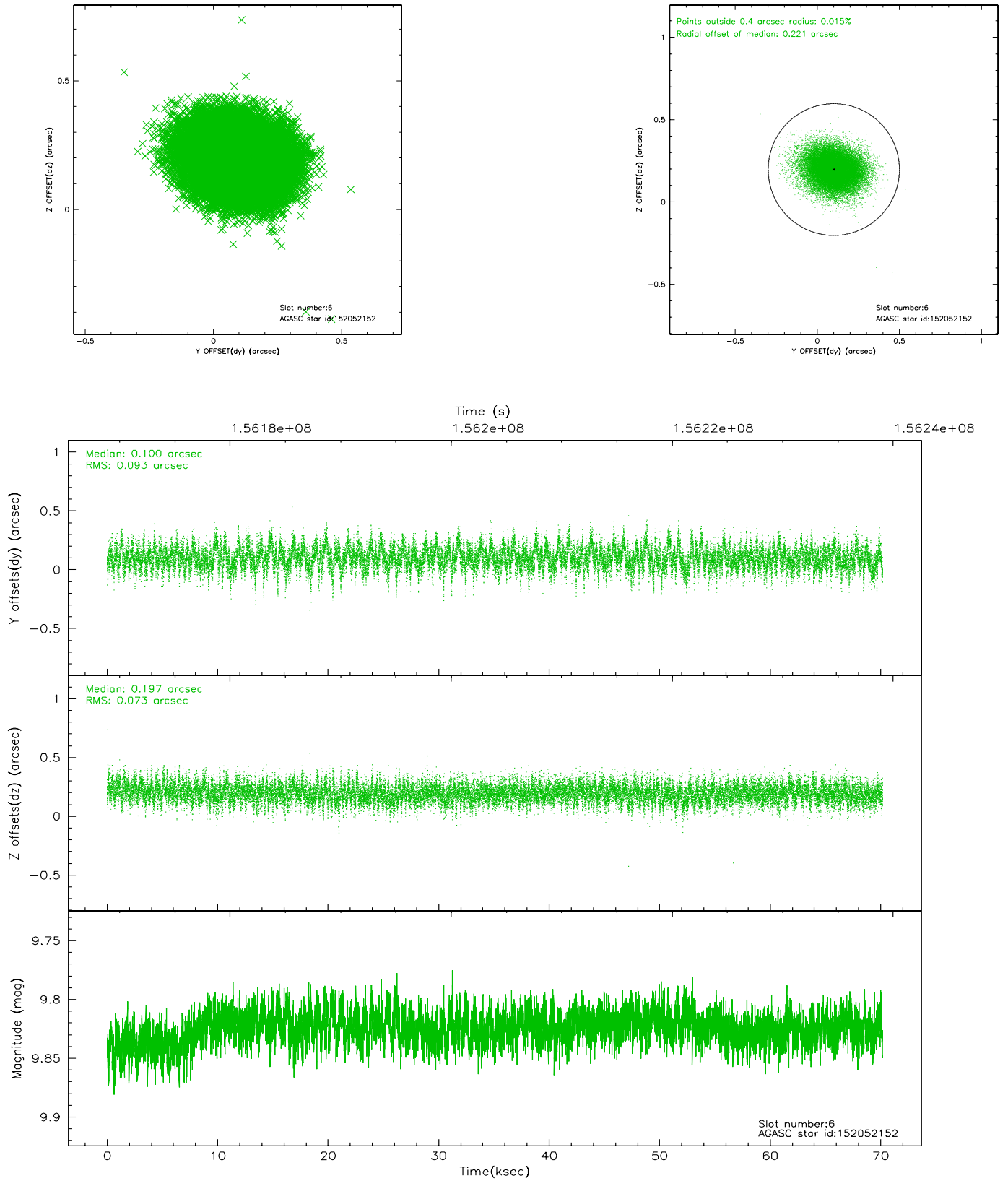
2.4.2 Slot 4



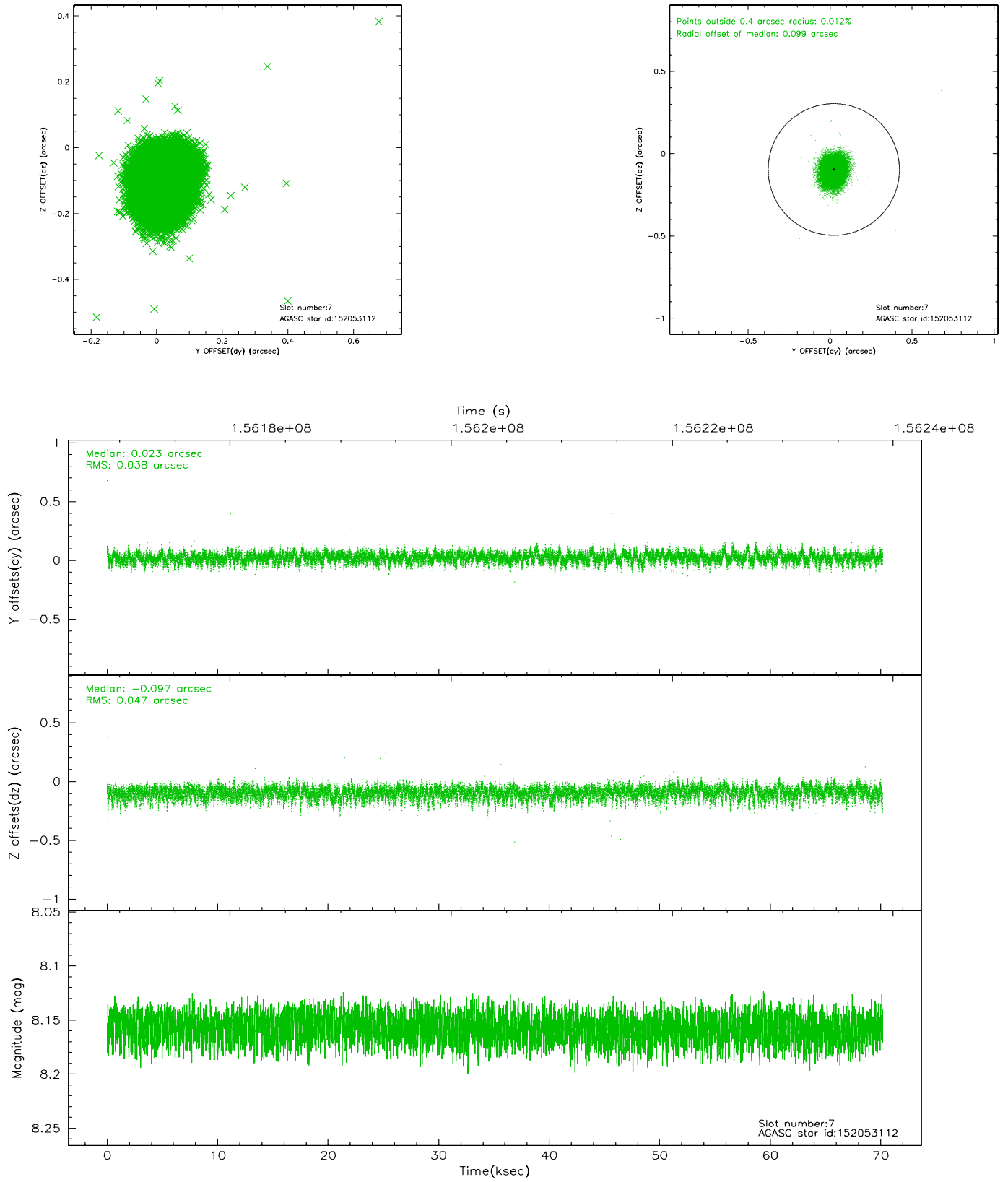
2.4.3 Slot 5



2.4.4 Slot 6

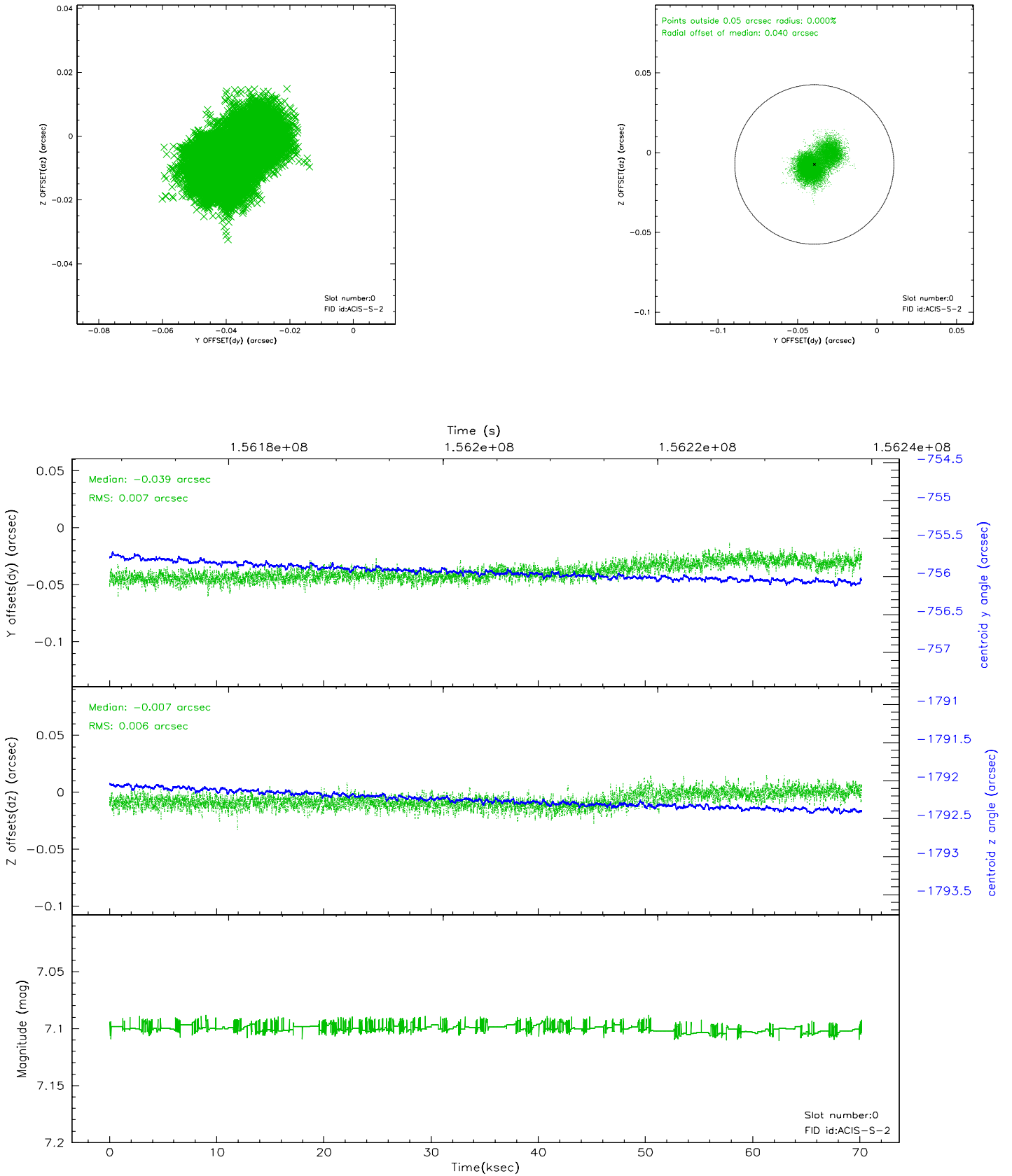


2.4.5 Slot 7

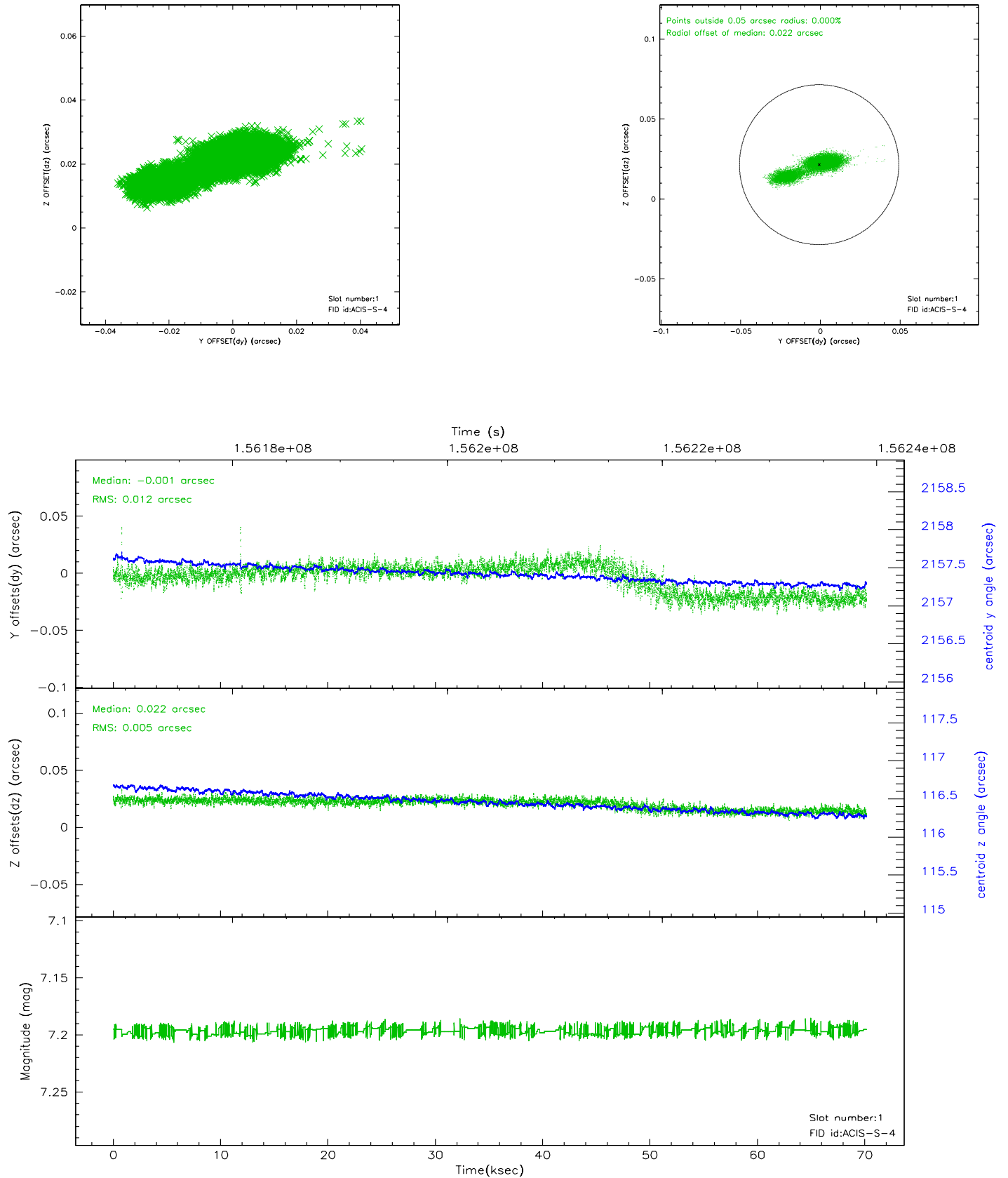


2.5 FID Slots

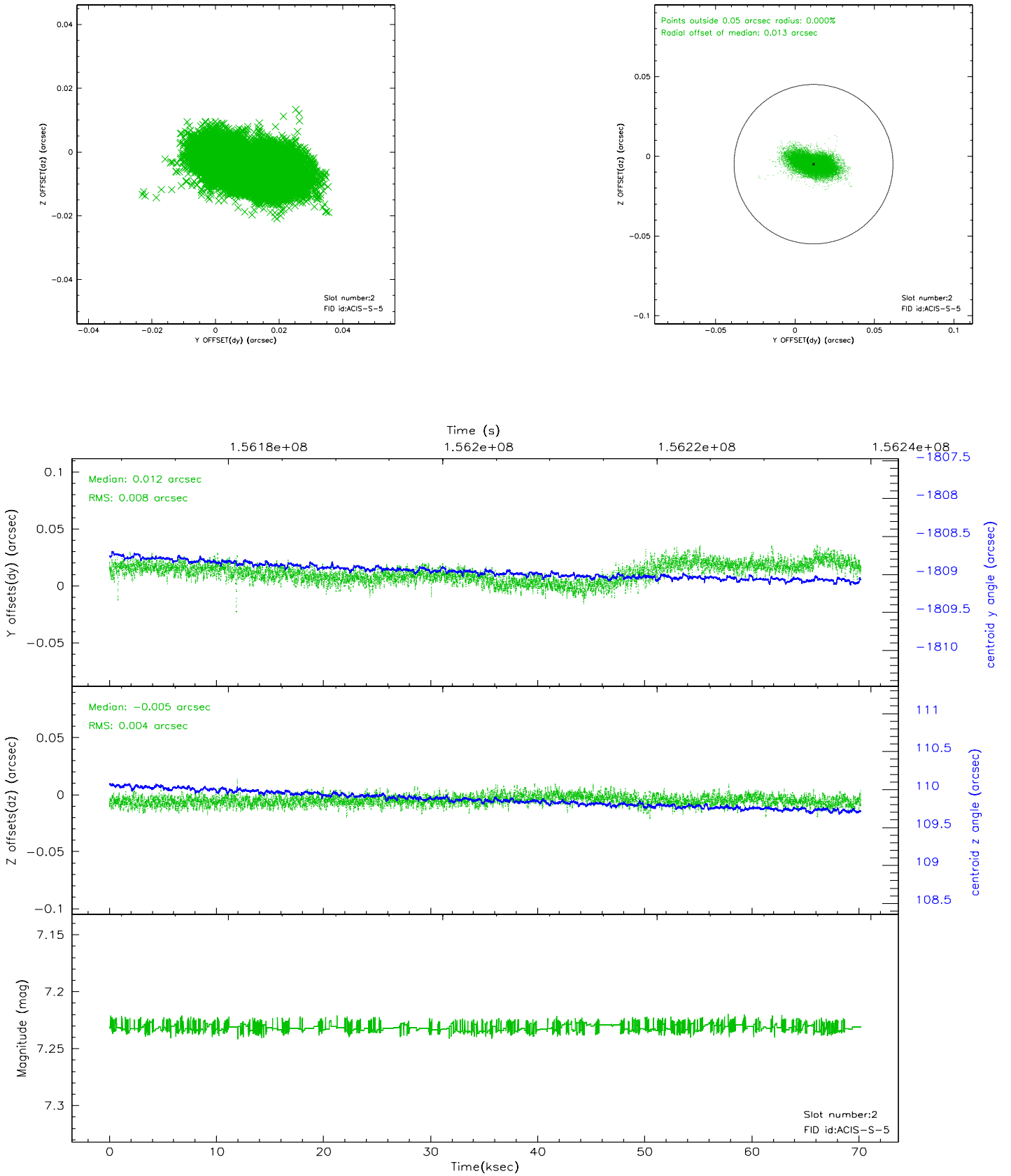
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2

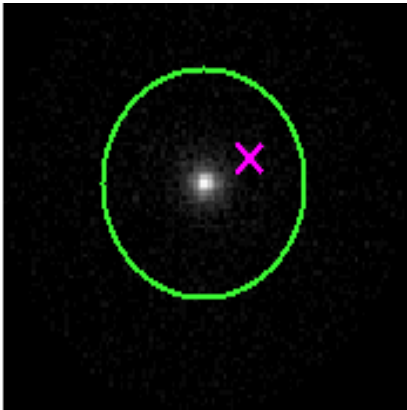


3 Gratings

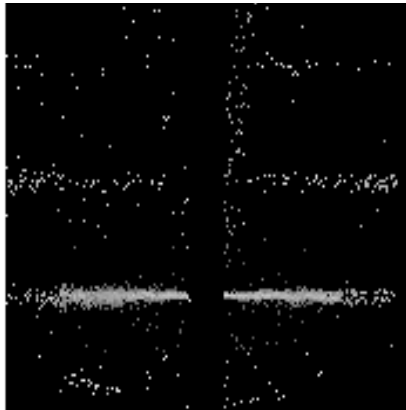
3.1 HEG Arm



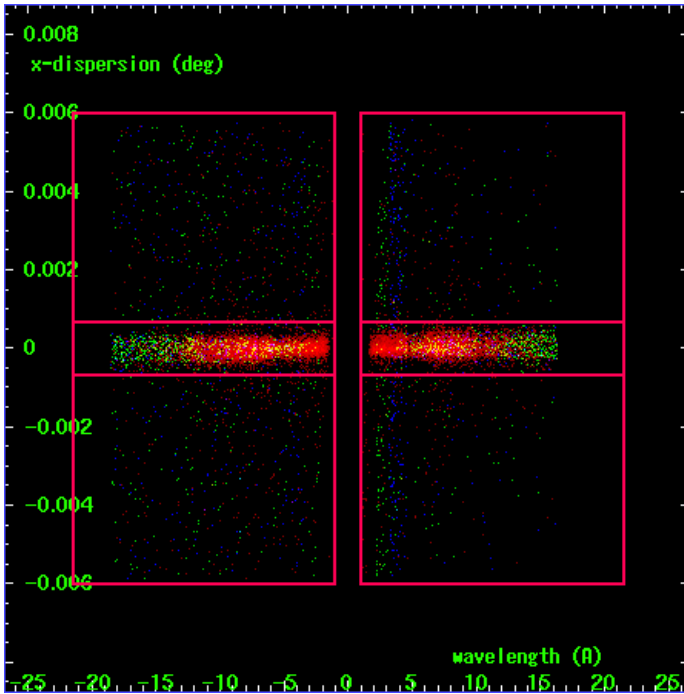
HEG Order Sort 123



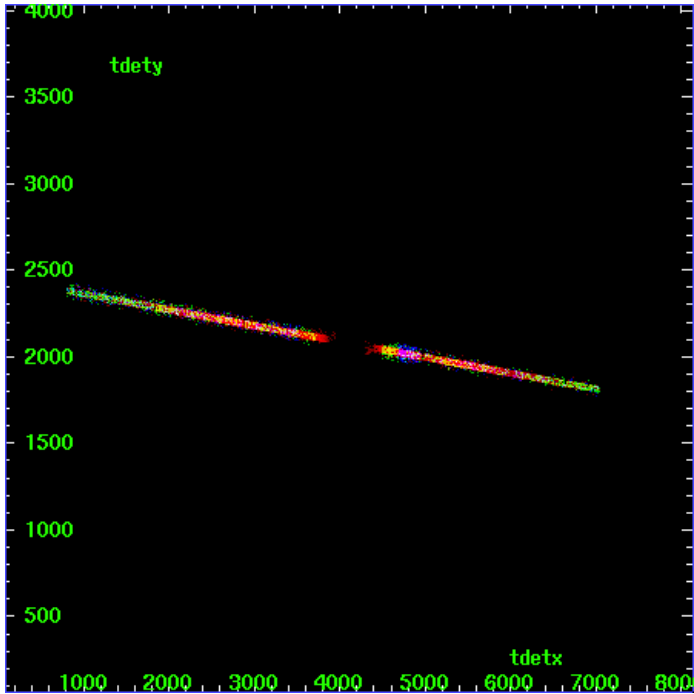
HEG Zero Order



HEG Order Sort ALL

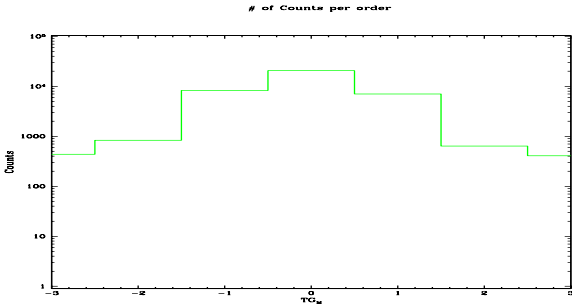


Spot Image HEG

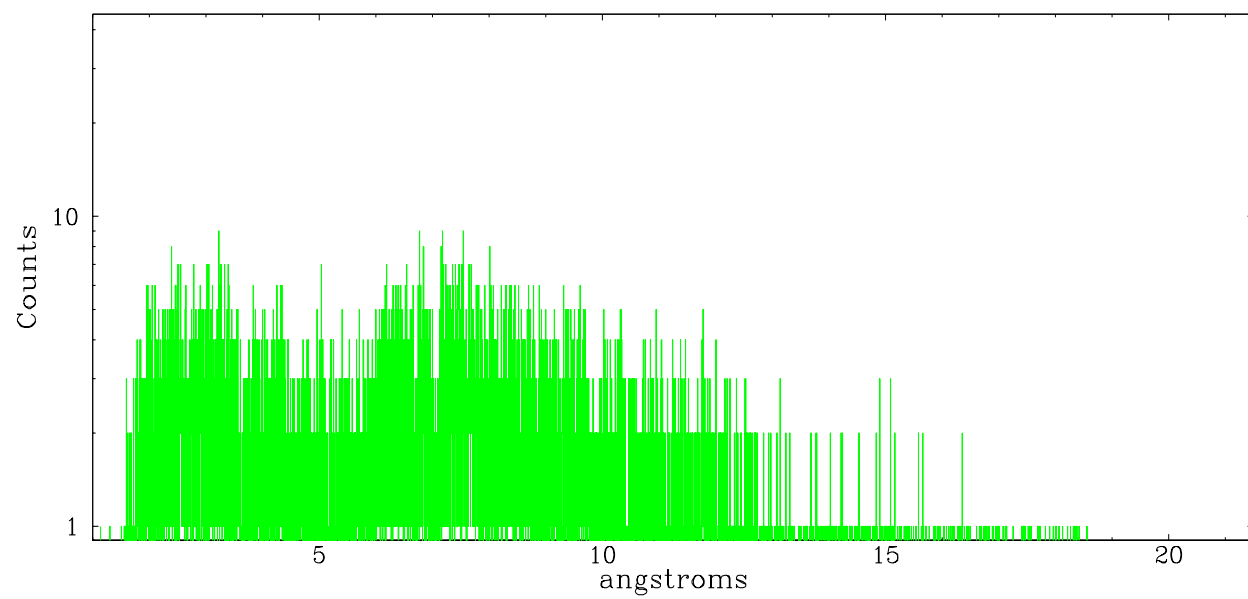


Full Detector HEG

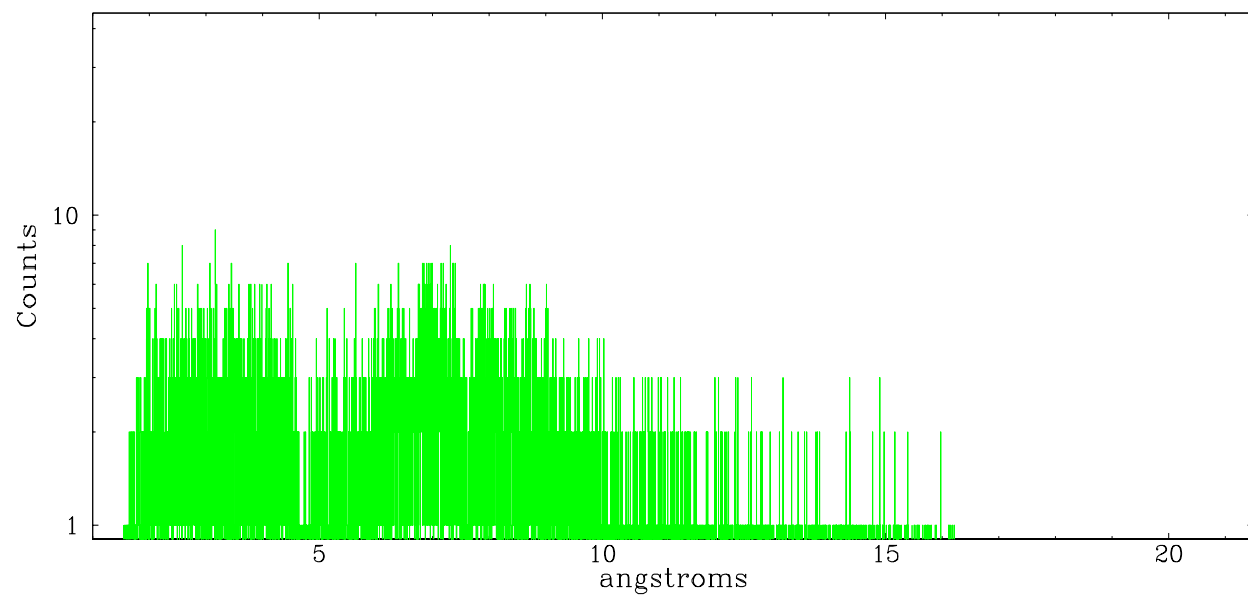
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	439	837	8286	20638	7028	639	407



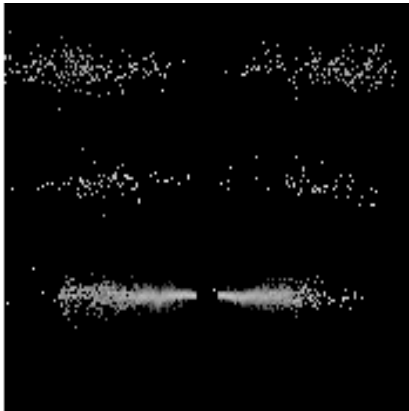
heg order -1



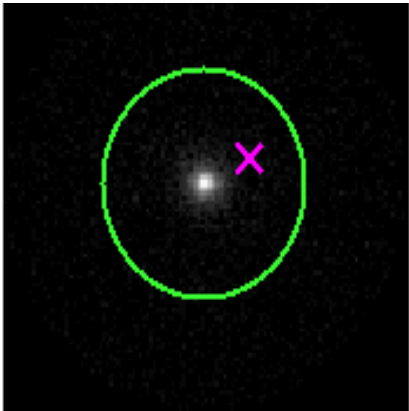
heg order +1



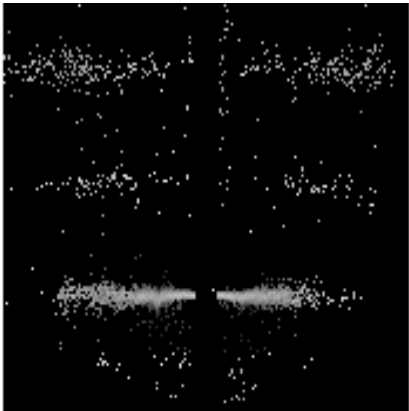
3.2 MEG Arm



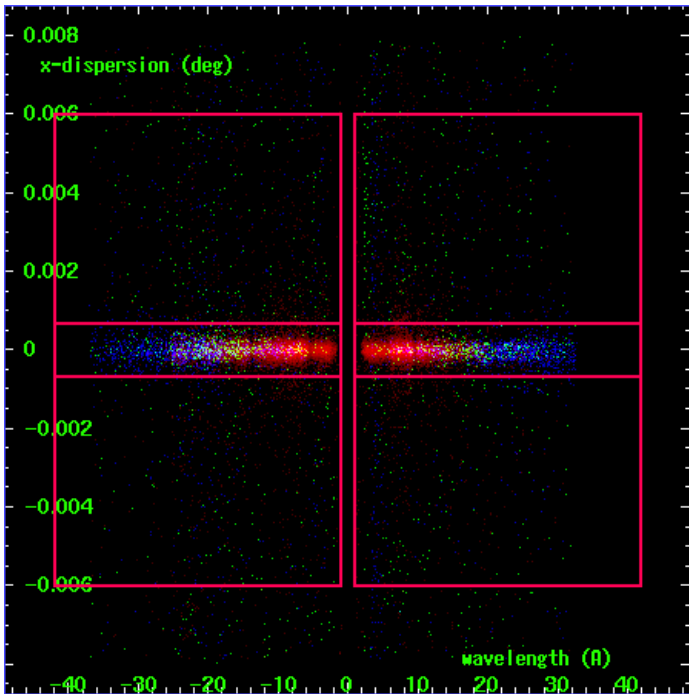
MEG Order Sort 123



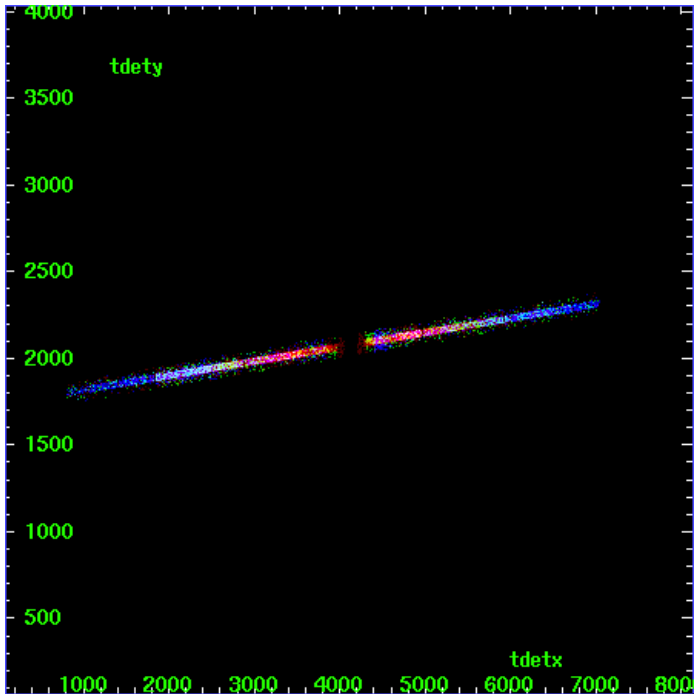
MEG Zero Order



MEG Order Sort ALL

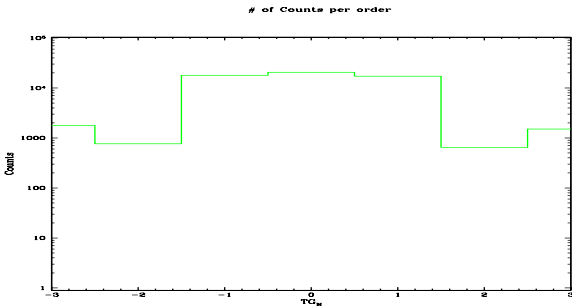


Spot Image MEG

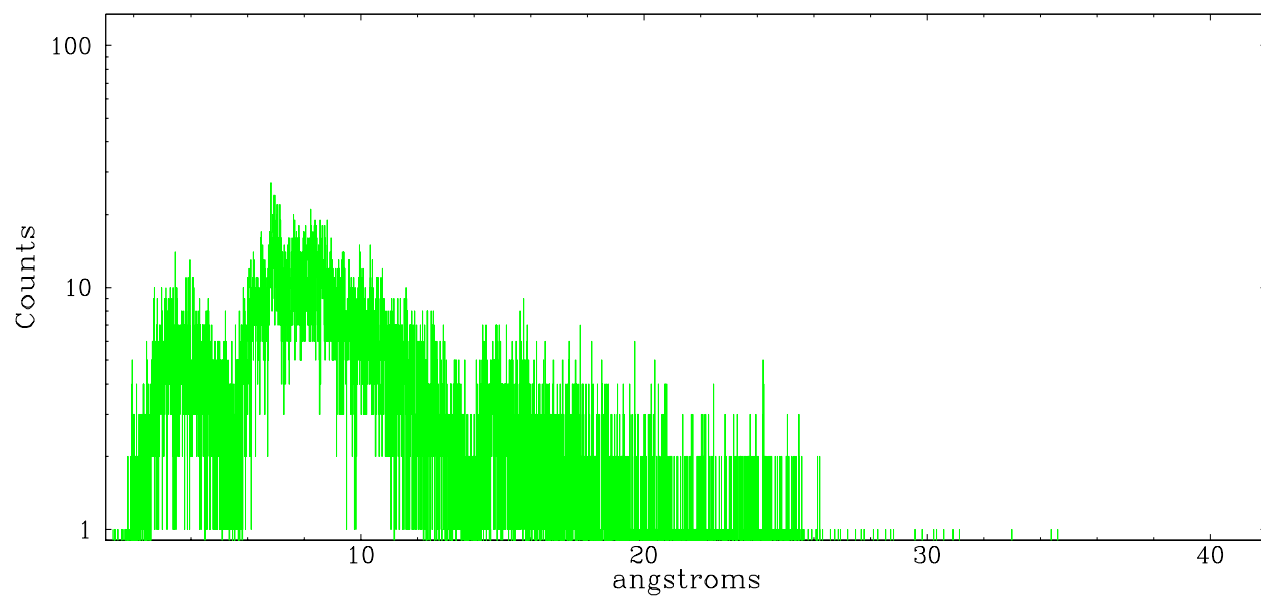


Full Detector MEG

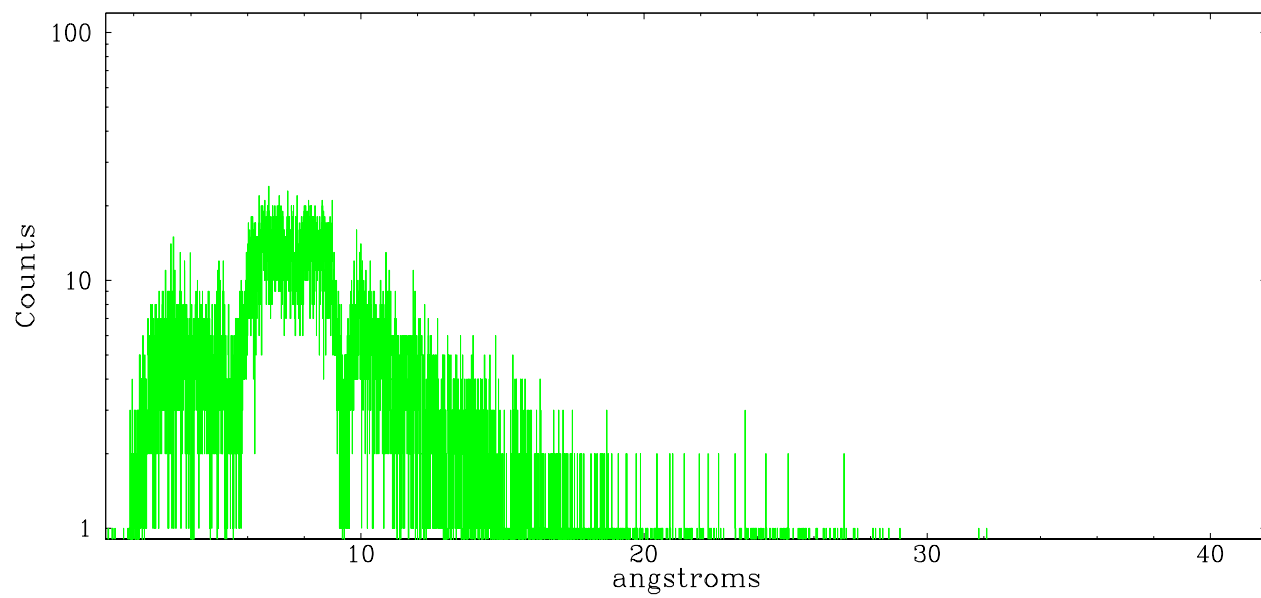
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	1782	765	17971	20638	17253	649	1508



meg order -1



meg order +1



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2006.10.17
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	69.757

A.2 Comments