

V&V Reference Report

L2 ASCDS Version : 7.6.8.1

Observation 3046 - L2 Version 001
Chandra X-Ray Center

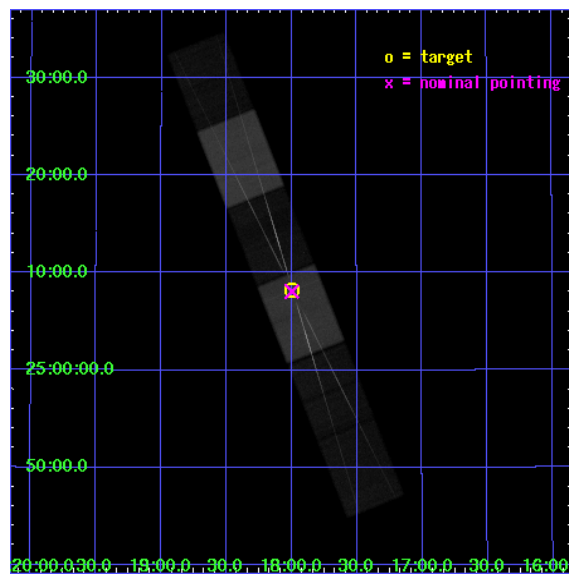
L2 Processing Date : Aug 28 2006

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1 Front

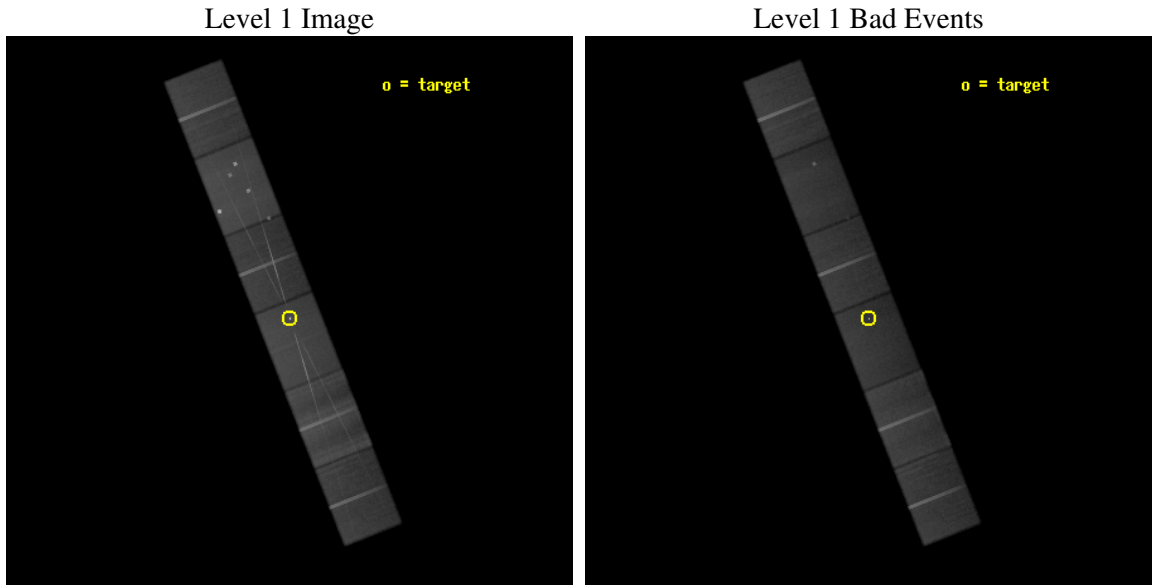
seq_num	700485
obs_id	3046
title	RESOLVING THE WARM ABSORBER IN NGC 5548
observer	Dr. Jelle Kaastra
object	NGC 5548
dtcycle	0
cycle	P
ra_targ	214.498333
dec_targ	25.136778
ra_nom	214.49948401883
dec_nom	25.134822101529
roll_nom	68.41854342166
revision	2
ontime	153894.91801967
livetime	151409.38161114
ontime4	153894.91802968
ontime5	153897.45903976
ontime6	153897.45900984
ontime7	153894.91801967
ontime8	153892.37702952
ontime9	153900.0
l2events	1294268



2 OBI

2.1 OBI

2.1.1 Images

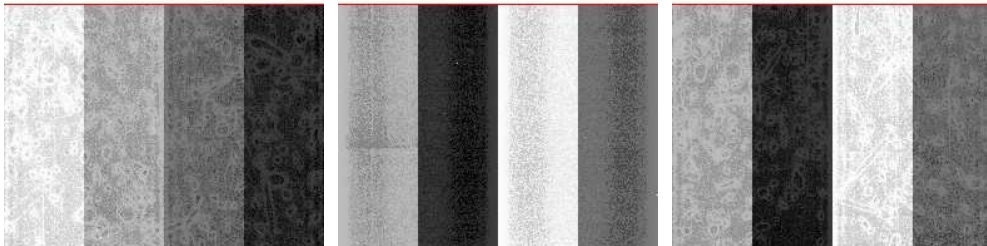


2.1.2 Bias

Chip 4

Chip 5

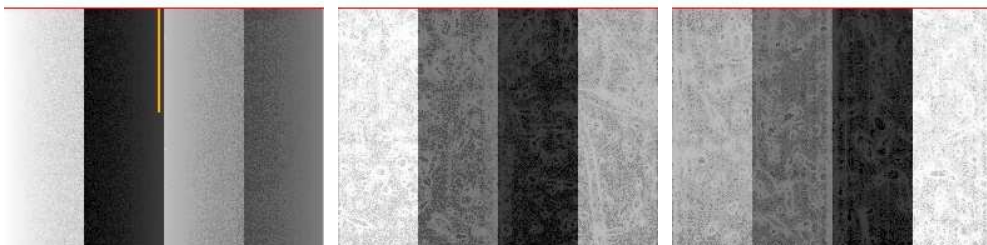
Chip 6



Chip 7

Chip 8

Chip 9



2.1.3 Parameters

obi_num	0
ascdsver	7.6.8.1
caldbver	3.2.3
date	2006-08-28T12:53:16
revision	2

sched_exp_time	153720.750000
ontime	154594.9452502
ontime4	154472.97867957
ontime5	154597.48624037
ontime6	154483.13941047
ontime7	154594.9452502
ontime8	154485.68055014
ontime9	154488.22144061
l1events	5622309

2.1.4 Events

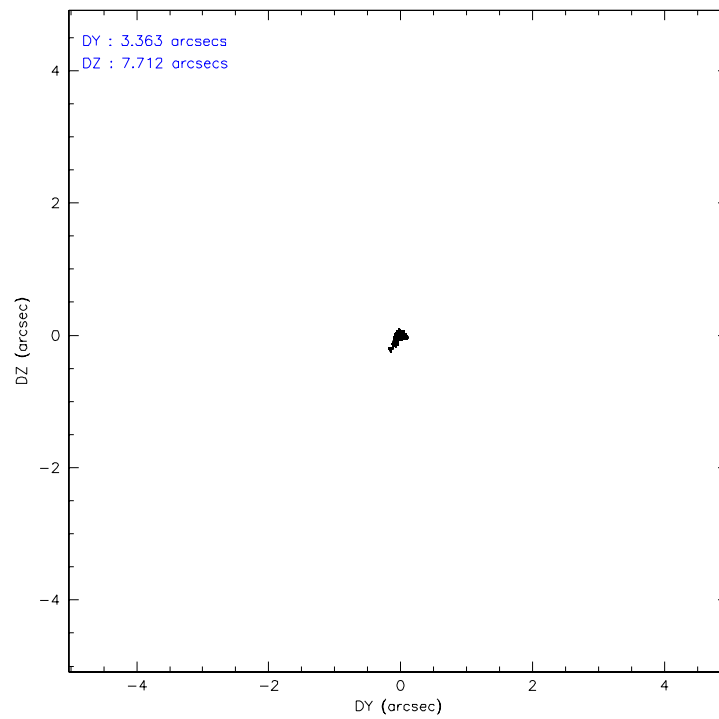
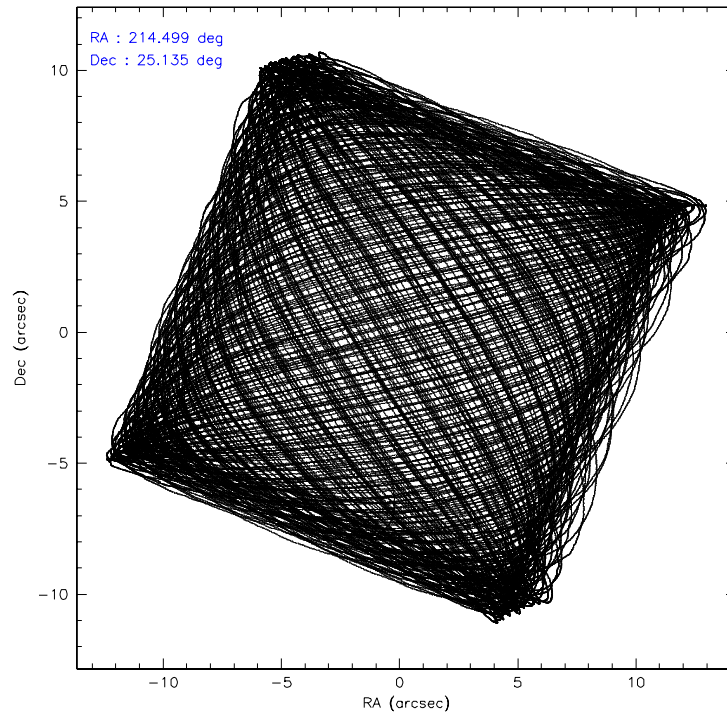
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	840167	1126589	806765	1054865	1048127	745796
rejected events	738560	587403	668588	591840	761532	648377
rejected %	87%	52%	82%	56%	72%	86%

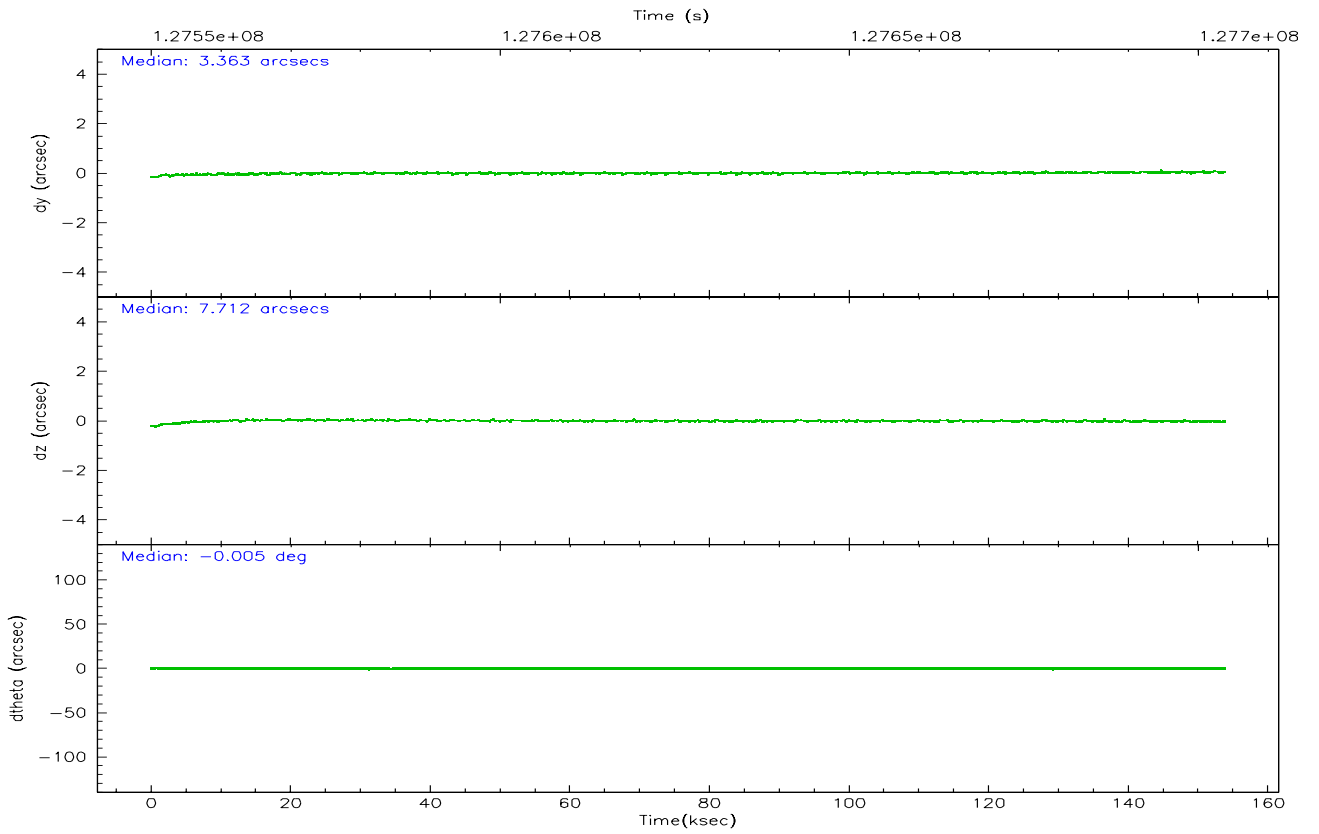
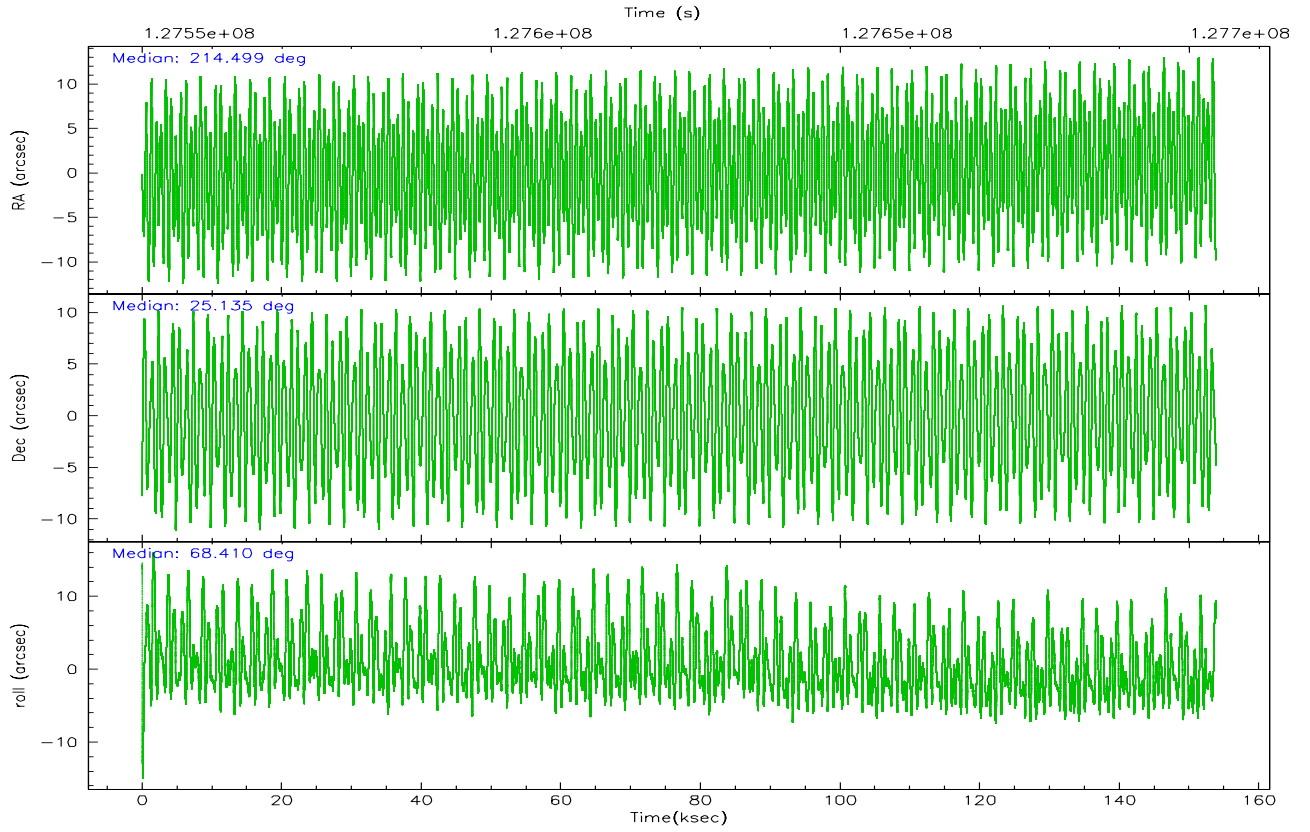
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	42165	91478	72961	39113	97315	41132
	5%	8%	9%	3%	9%	5%
grade 1 events	324	1246	438	1300	687	306
	0%	0%	0%	0%	0%	0%
grade 2 events	24934	157396	24271	113806	53198	19337
	2%	13%	3%	10%	5%	2%
grade 3 events	9100	14174	11088	30900	35554	9524
	1%	1%	1%	2%	3%	1%
grade 4 events	8921	13229	10690	30863	32410	9383
	1%	1%	1%	2%	3%	1%
grade 5 events	26071	53704	30651	73021	40677	31263
	3%	4%	3%	6%	3%	4%
grade 6 events	16915	265373	19515	250086	69029	18397
	2%	23%	2%	23%	6%	2%
grade 7 events	711737	529989	637151	515776	719257	616454
	84%	47%	78%	48%	68%	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	On-chip summing requested	N	N
Observation mode	POINTING	POINTING	Subarray requested	CUSTOM	CUSTOM
Pointing RA	214.504251	214.4994840188291	Subarray start row	1	1
Pointing Dec	25.107907	25.13482210152864	Subarray row count	774	774
Pointing Roll	68.259895	68.41854342165978	Alternating exposures requested	N	N
SIM focus pos (mm)	-0.684267	-0.6828225247311905	Primary exposure time	0.000000	2.5
SIM defocus (mm)	0	0.001444936568705701			
SIM translation stage pos (mm)	-187.132523	-187.1228876879999			
SIM translation stage offset (mm)	-3	-3.009634895007935			
Observation start time	127550135.184000	127548817.72734			
Observation start date	2002-01-16T06:34:31	2002-01-16T06:13:37			
Observation end time	127703856.184000	127704170.32109			
Observation end date	2002-01-18T01:16:32	2002-01-18T01:22:50			
Read mode	TIMED	TIMED			

2.3 Aspect



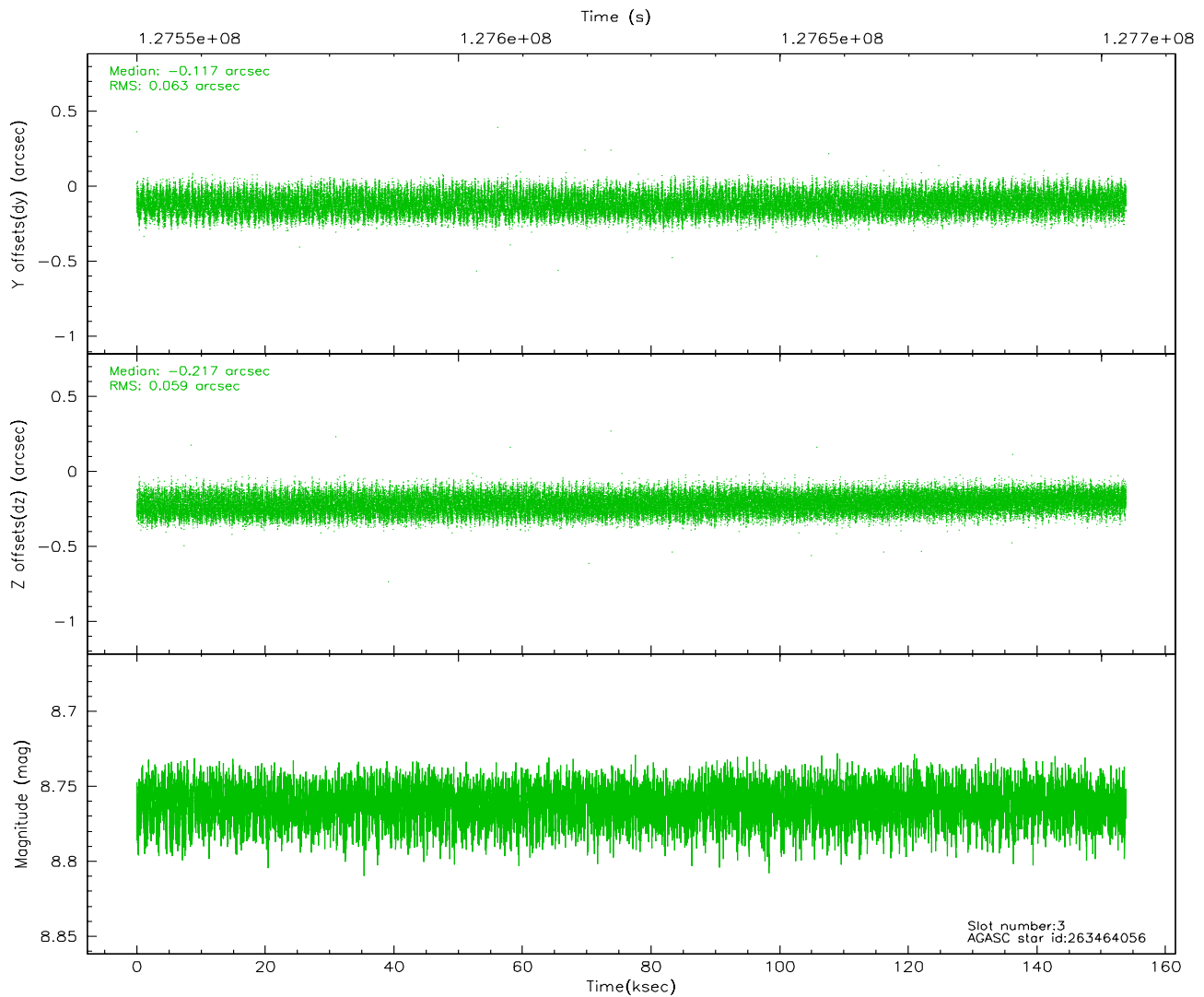
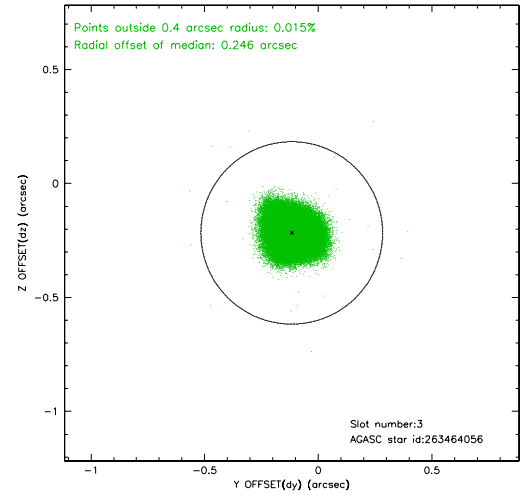
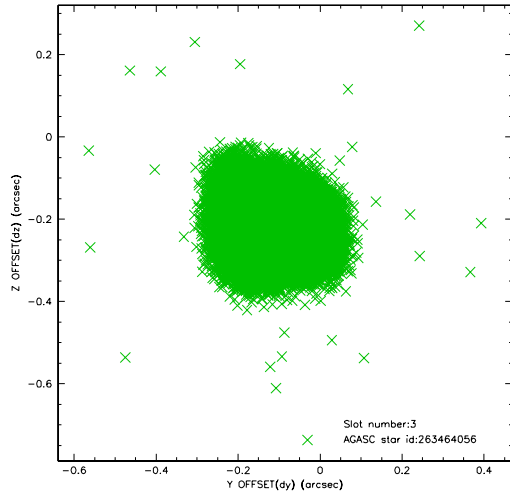


Slot Statistics

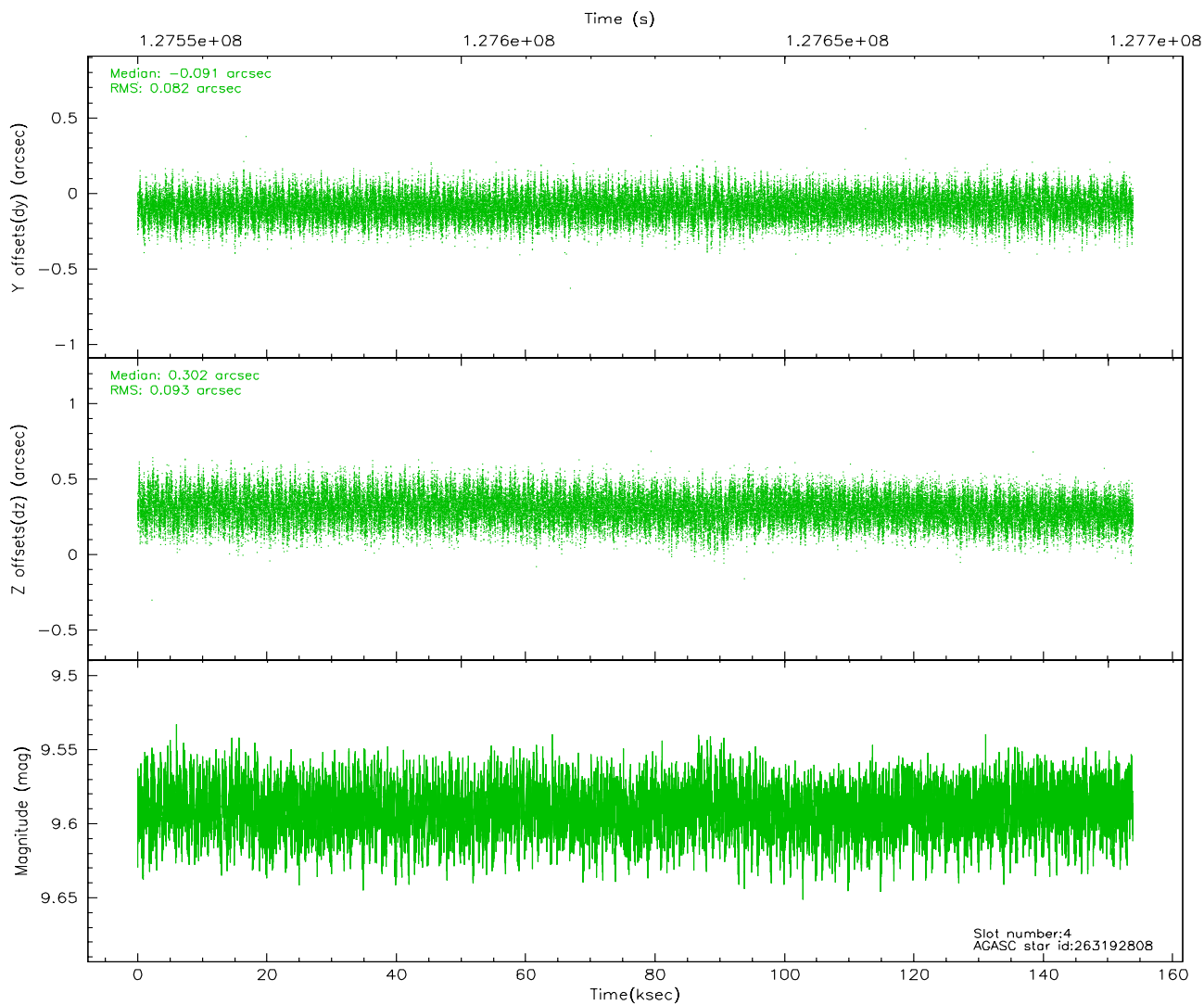
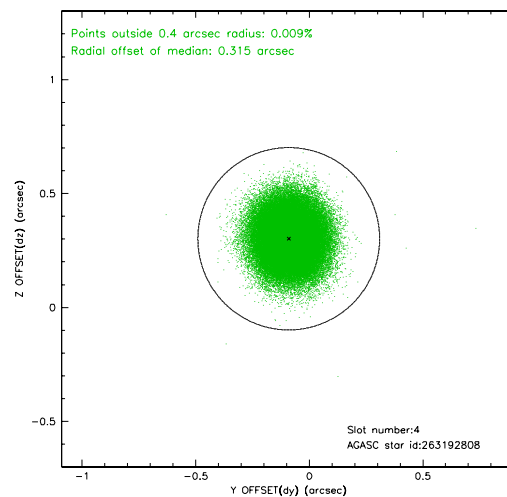
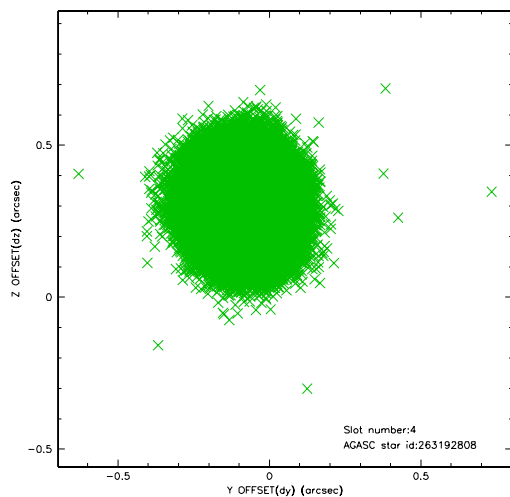
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	37527	-0.044	-0.006	0.007	0.011	0.000000	0.000000	-755.81	-1791.05
1	FID	ACIS-S-4	7.20	37520	-0.014	0.023	0.005	0.010	0.000000	0.000000	2157.51	117.63
2	FID	ACIS-S-5	7.23	37529	0.026	-0.008	0.007	0.011	0.000000	0.000000	-1808.77	111.06
3	GUIDE	263464056	8.76	75037	-0.117	-0.217	0.094	0.143	214.109118	25.652451	1347.48	1917.54
4	GUIDE	263192808	9.59	75018	-0.091	0.302	0.134	0.210	215.197131	24.910235	182.81	-2362.86
5	GUIDE	263195064	9.28	75033	0.096	0.287	0.110	0.178	215.129983	24.745063	-450.56	-2382.46
6	GUIDE	263464240	9.60	75023	0.199	-0.341	0.117	0.185	213.729943	25.011897	-1249.96	2220.27
7	GUIDE	263462424	8.90	75044	-0.084	-0.029	0.069	0.113	214.158904	25.947326	2394.08	2158.43

2.4 Star Slots

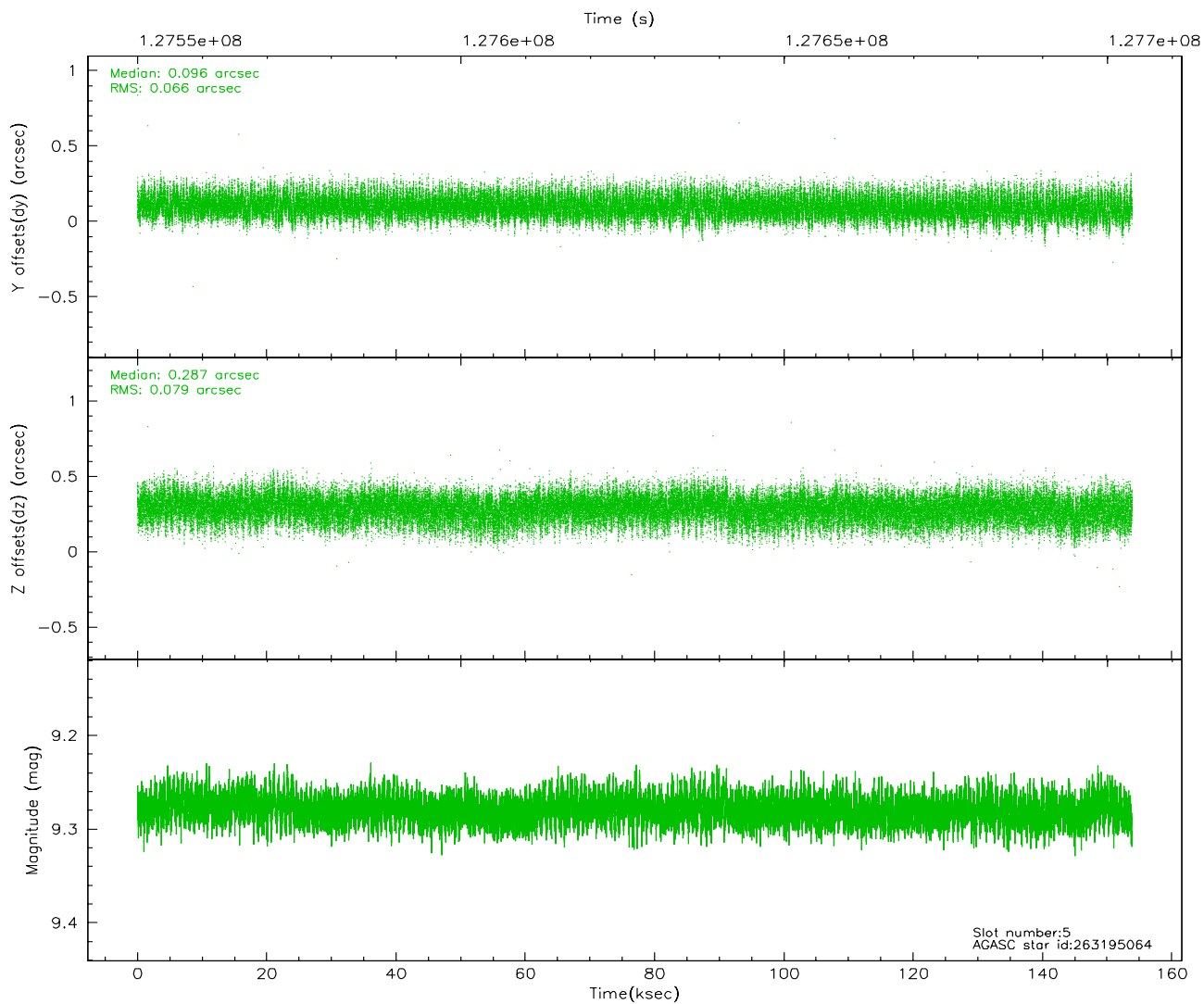
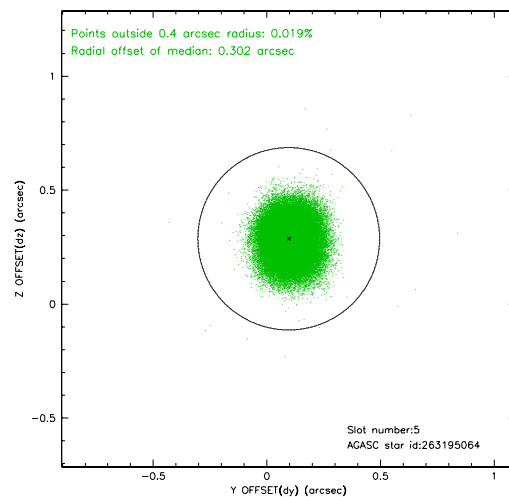
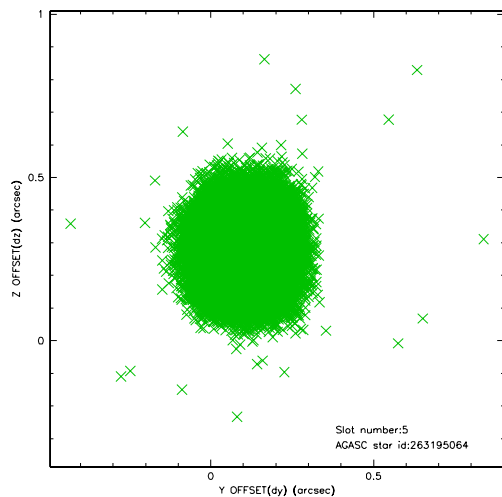
2.4.1 Slot 3



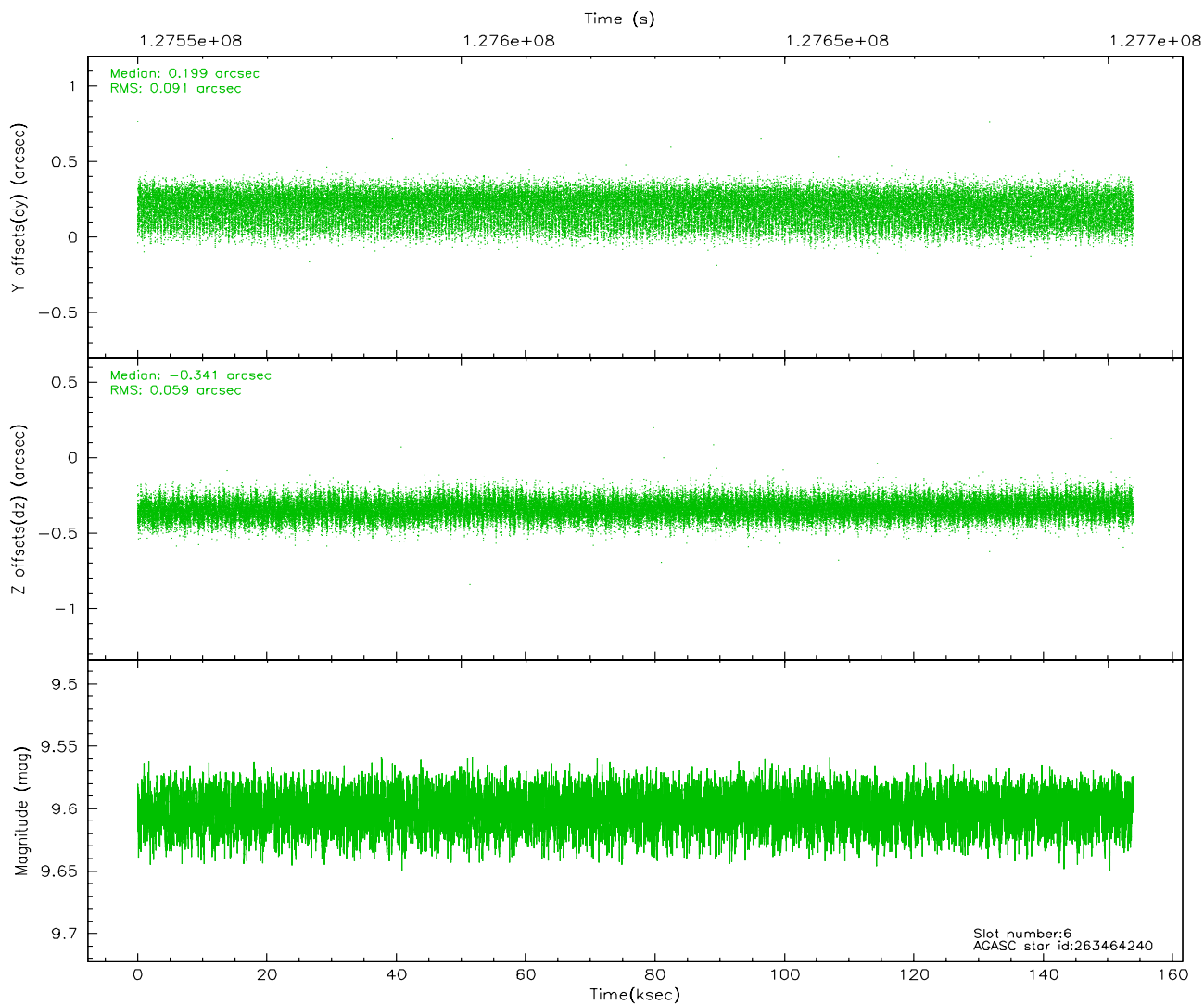
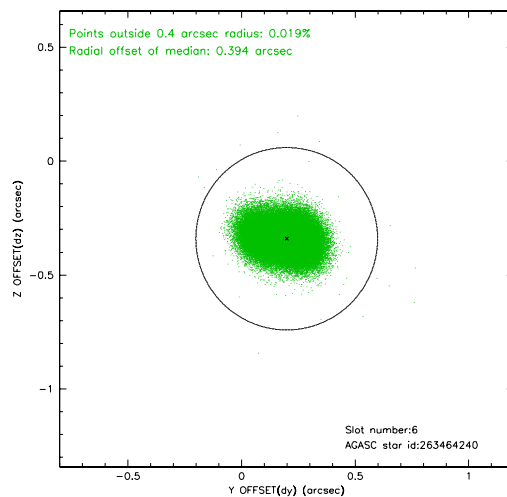
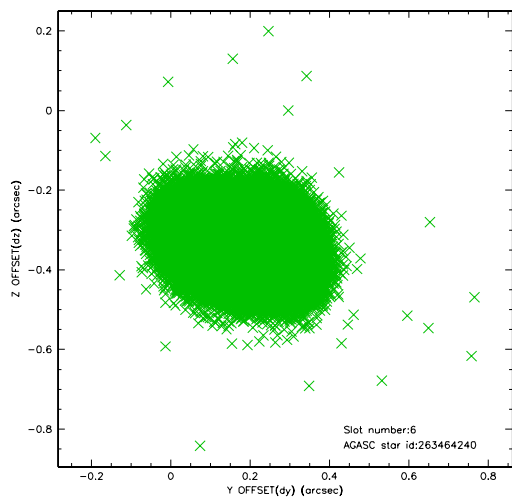
2.4.2 Slot 4



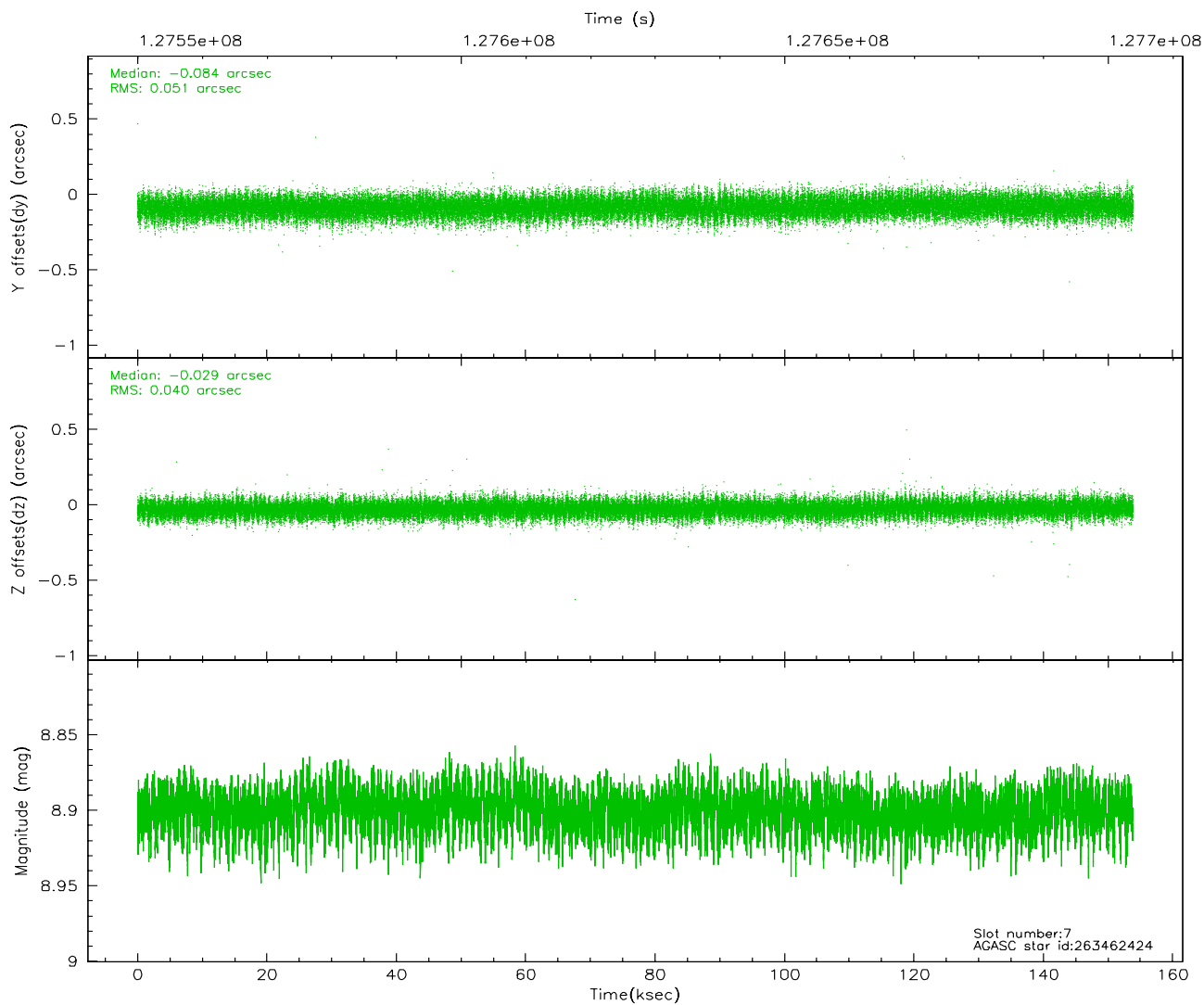
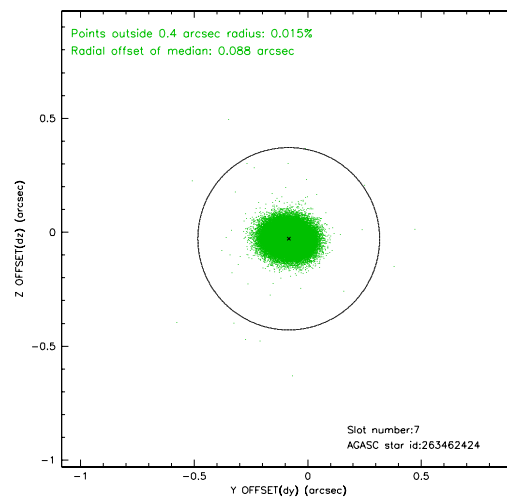
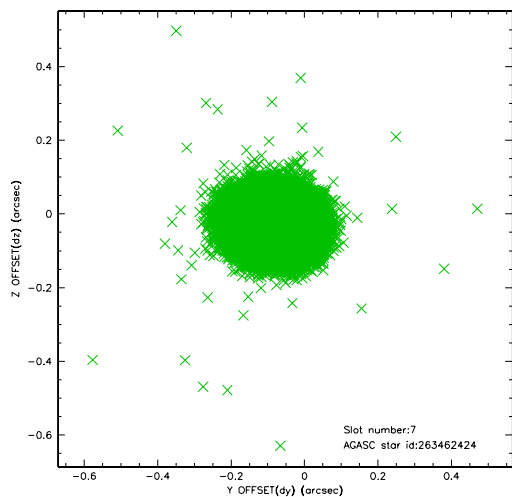
2.4.3 Slot 5



2.4.4 Slot 6

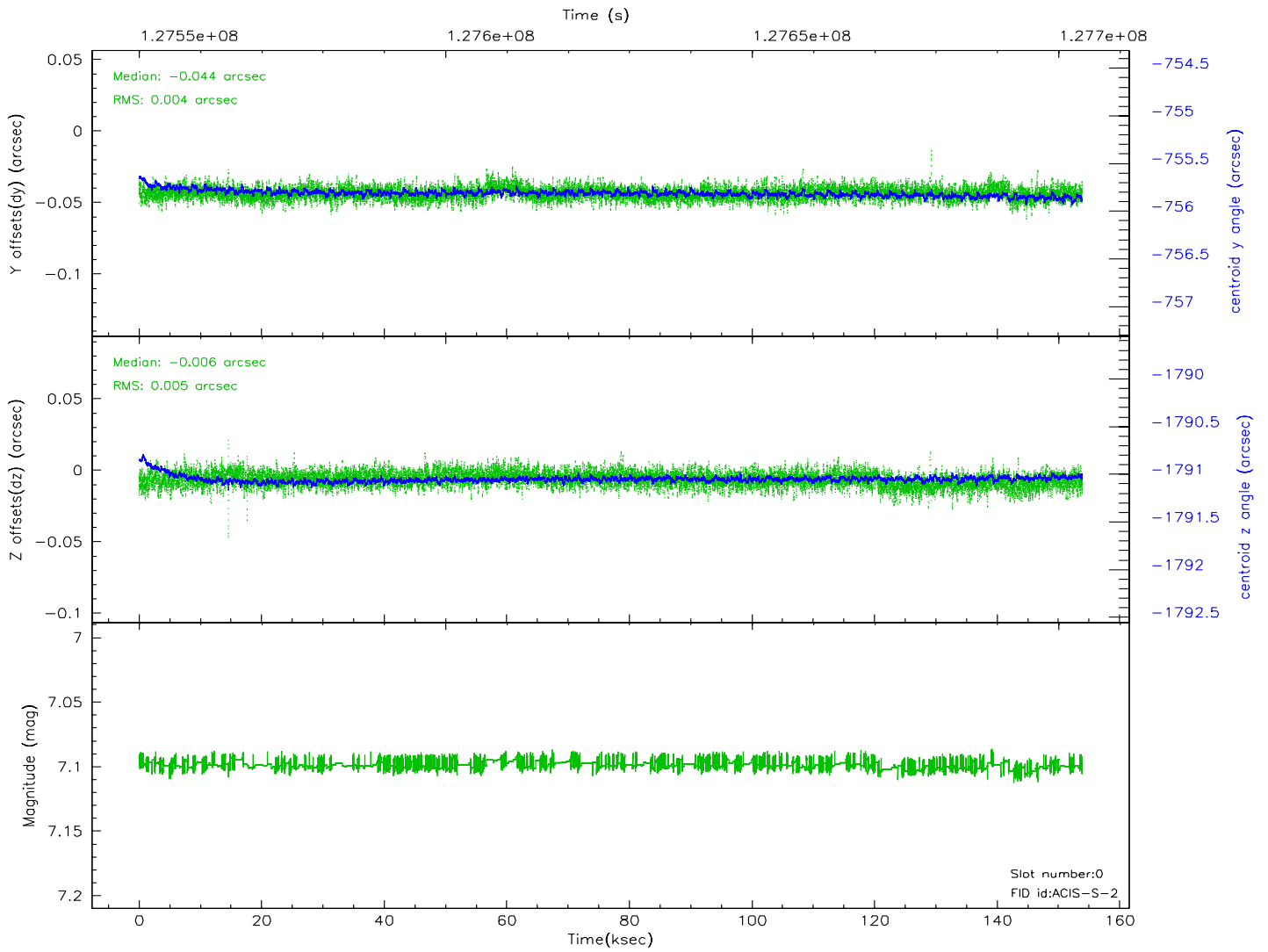
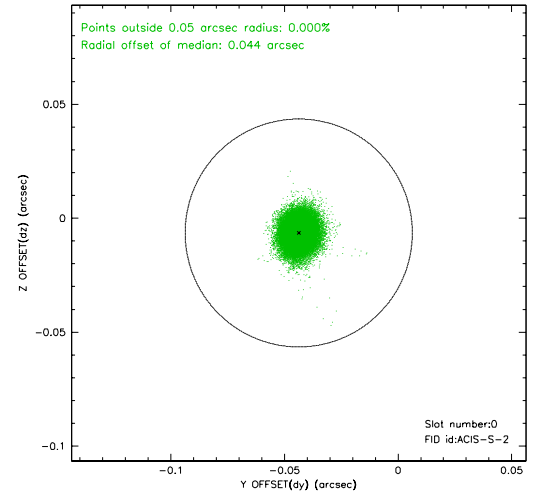
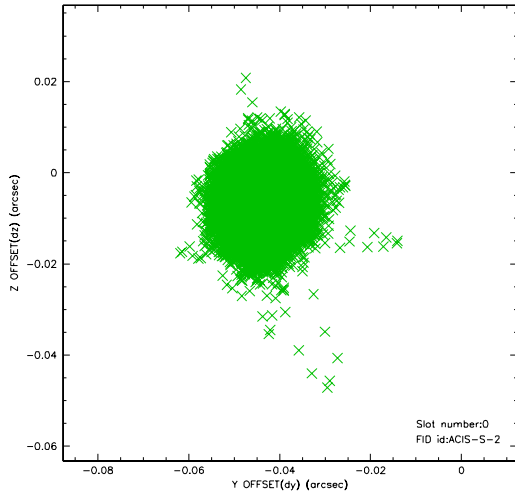


2.4.5 Slot 7

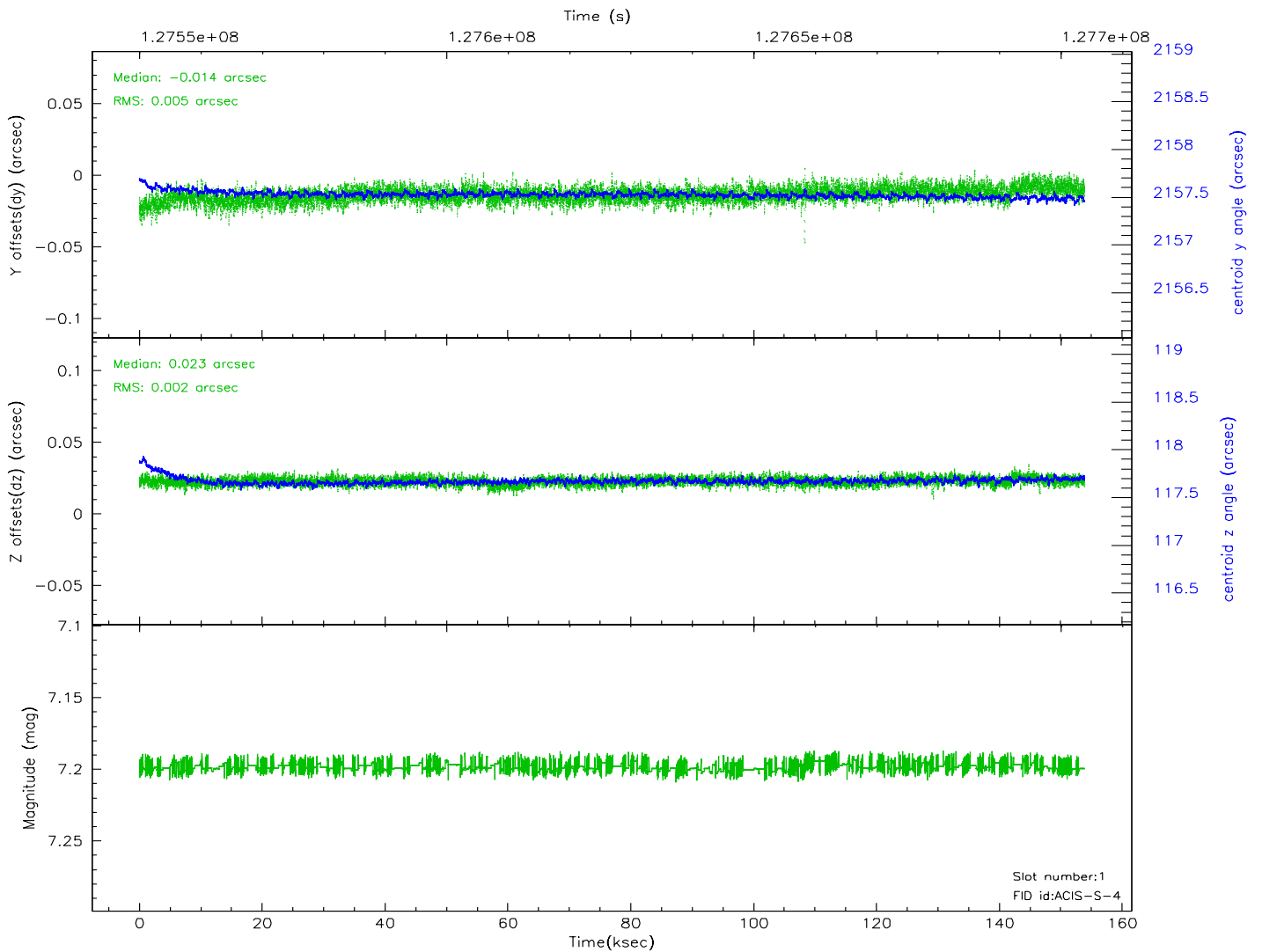
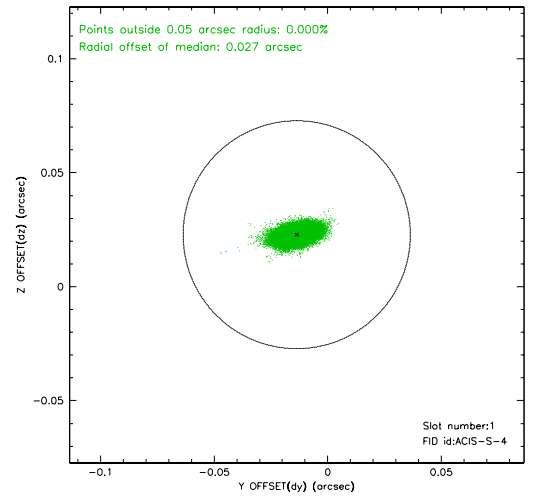
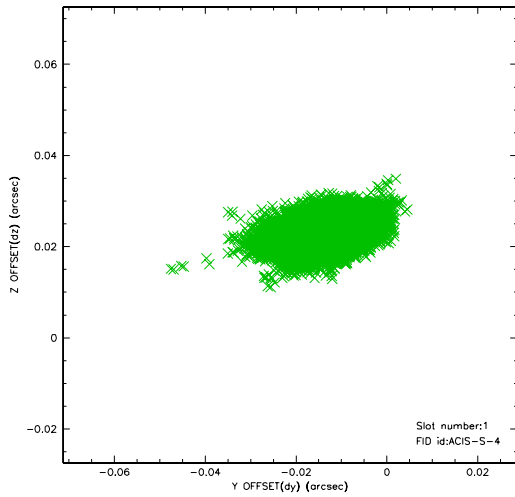


2.5 FID Slots

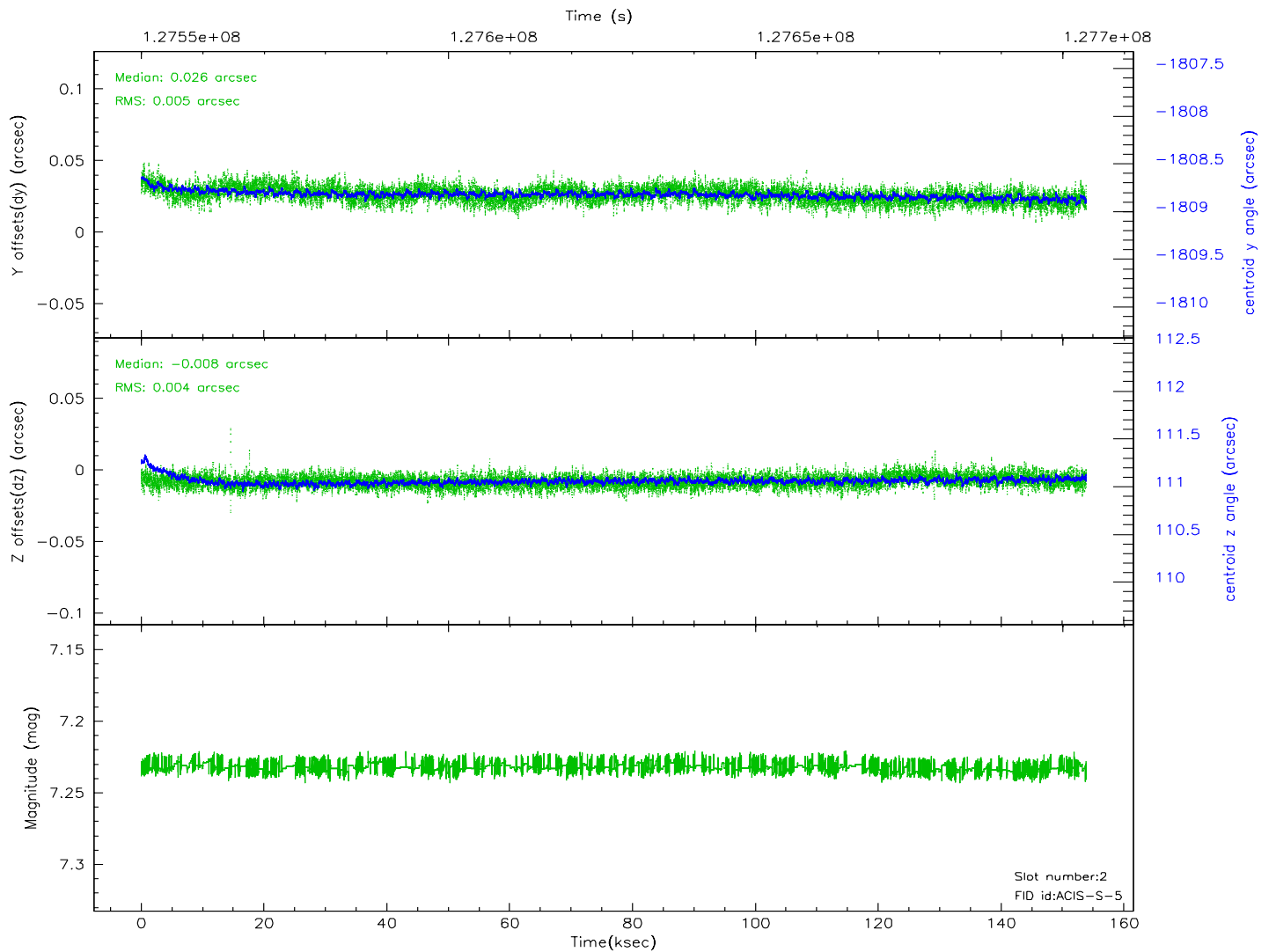
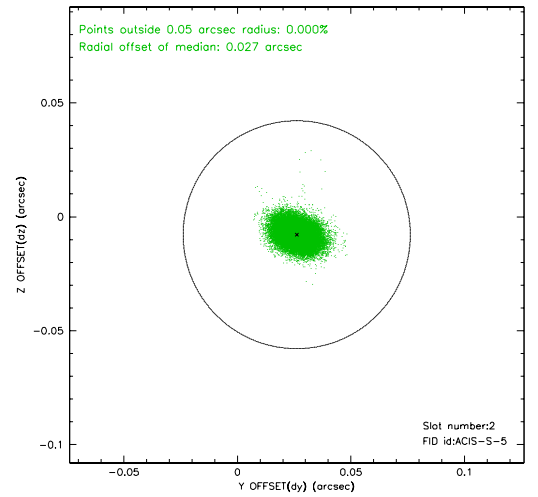
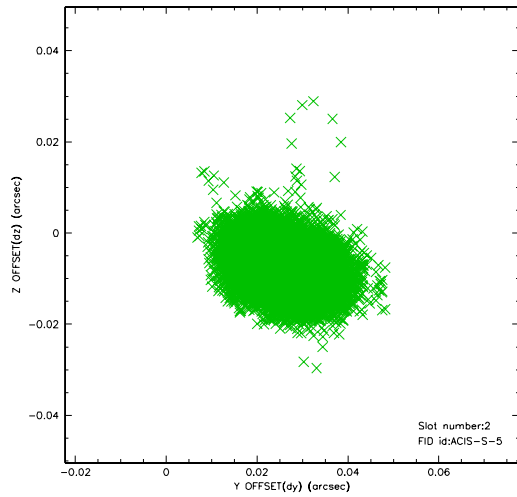
2.5.1 Slot 0



2.5.2 Slot 1

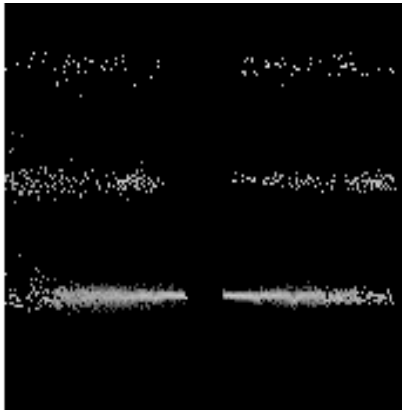


2.5.3 Slot 2

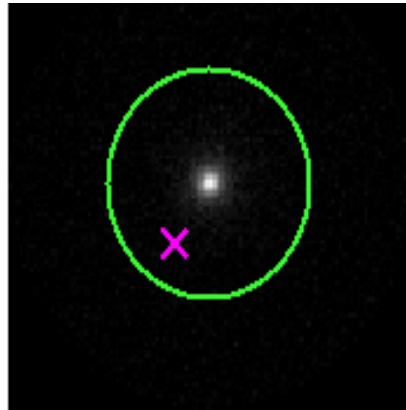


3 Gratings

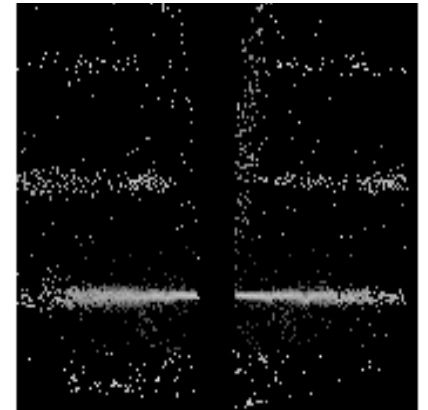
3.1 HEG Arm



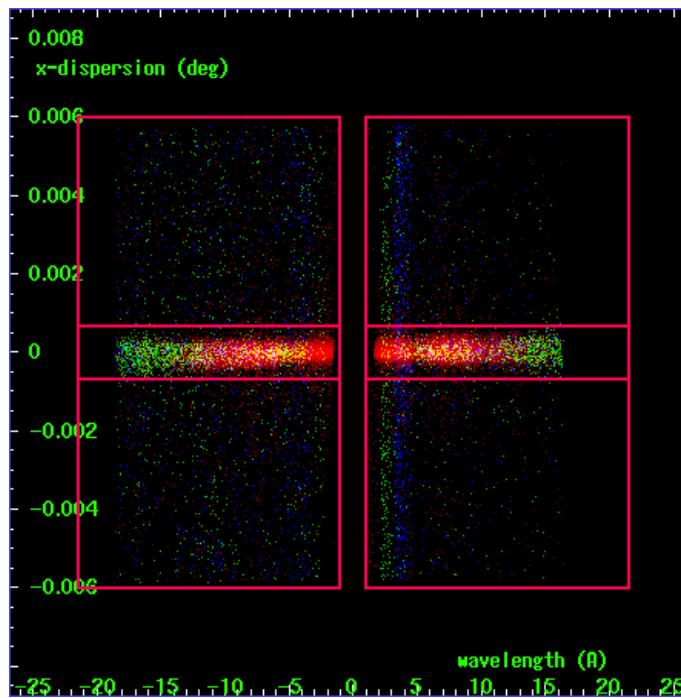
HEG Order Sort 123



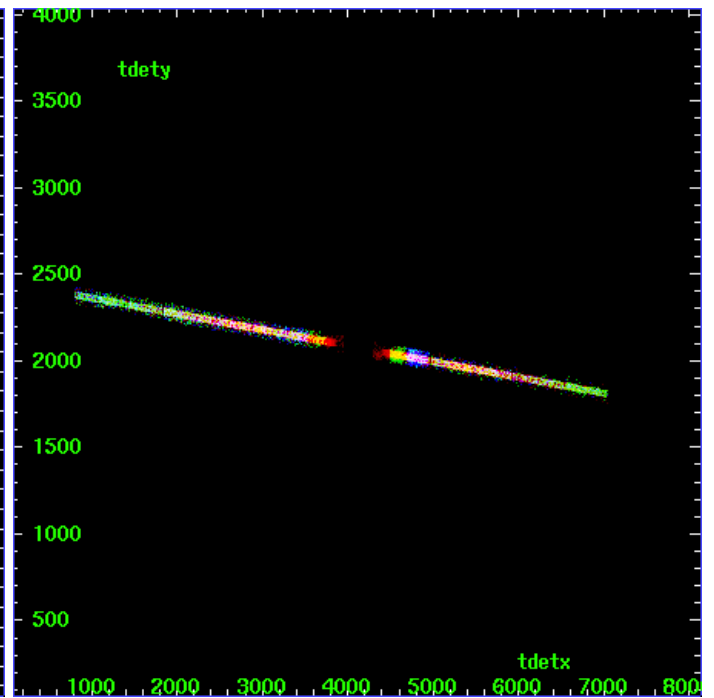
HEG Zero Order



HEG Order Sort ALL

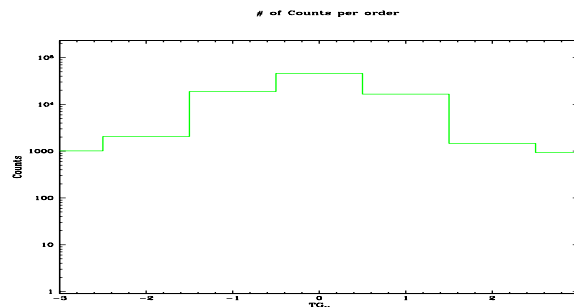


Spot Image HEG

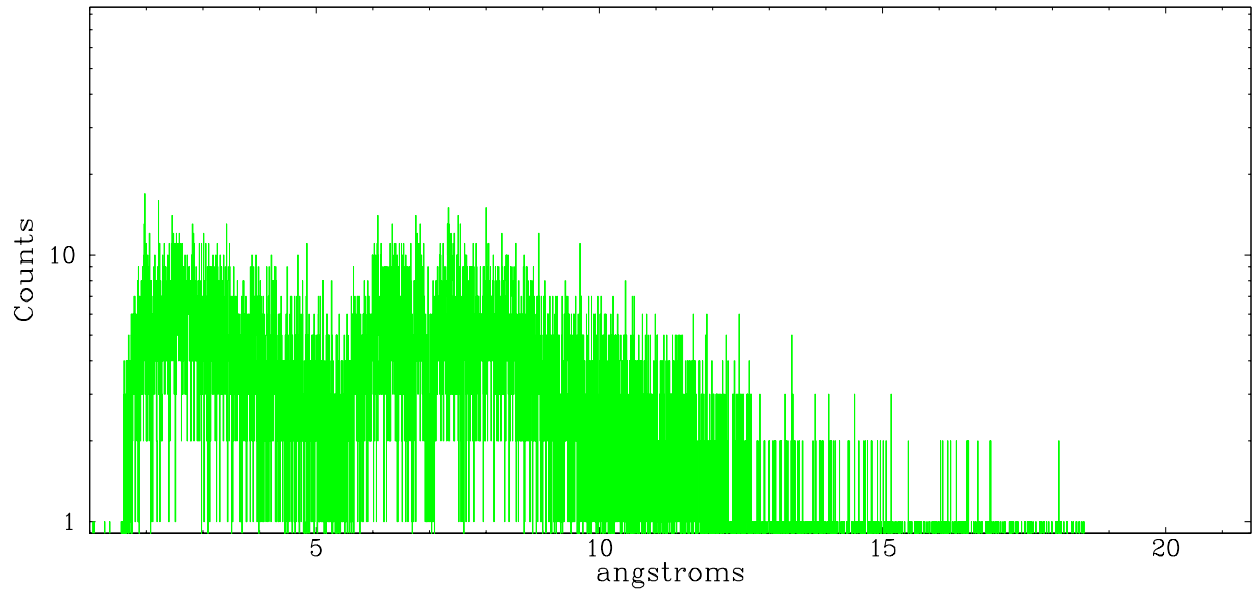


Full Detector HEG

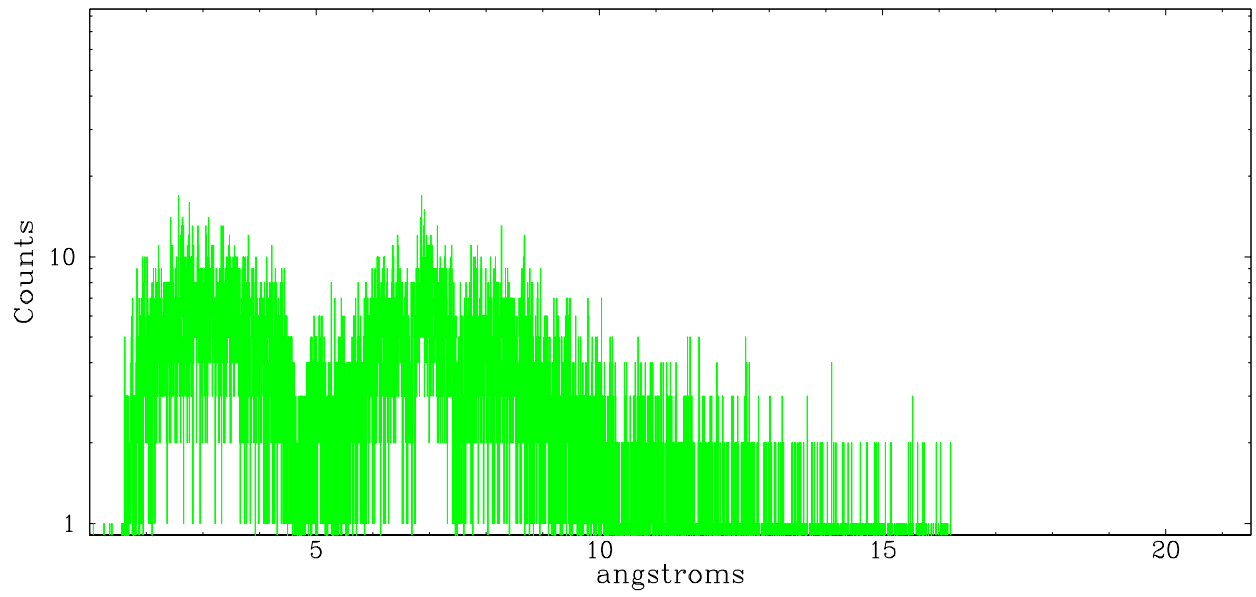
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	1018	2054	18840	46108	16521	1469	931



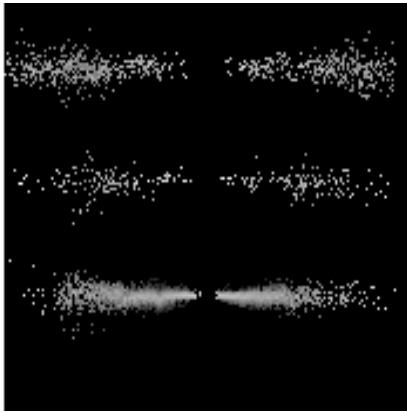
heg order -1



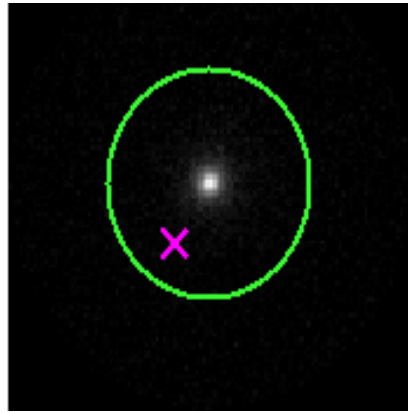
heg order +1



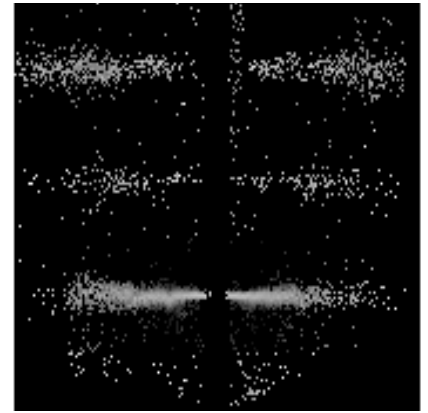
3.2 MEG Arm



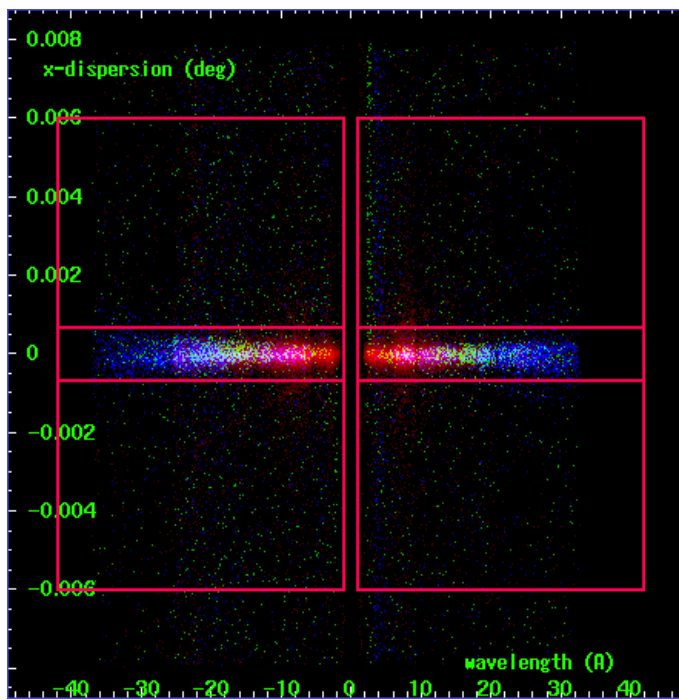
MEG Order Sort 123



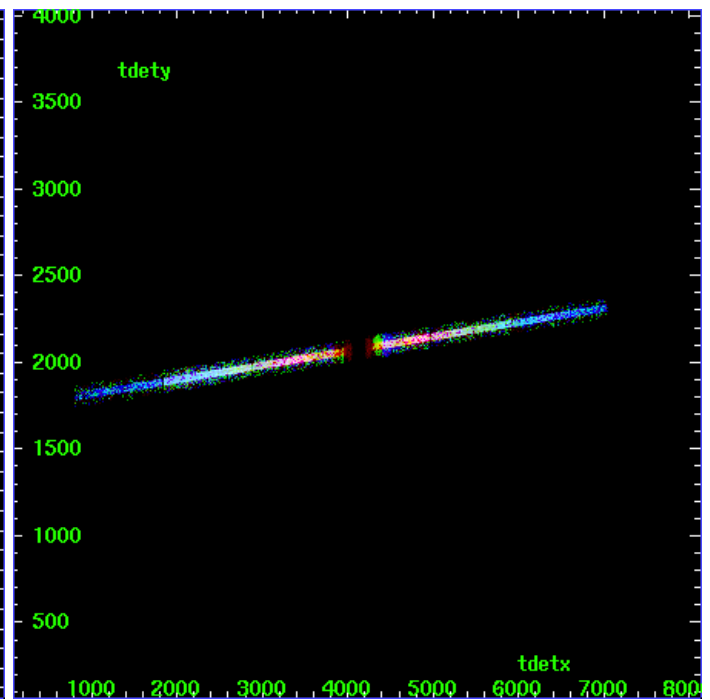
MEG Zero Order



MEG Order Sort ALL

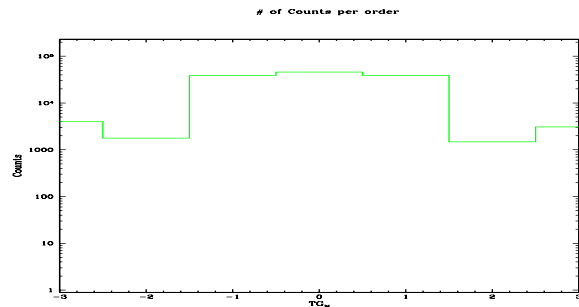


Spot Image MEG

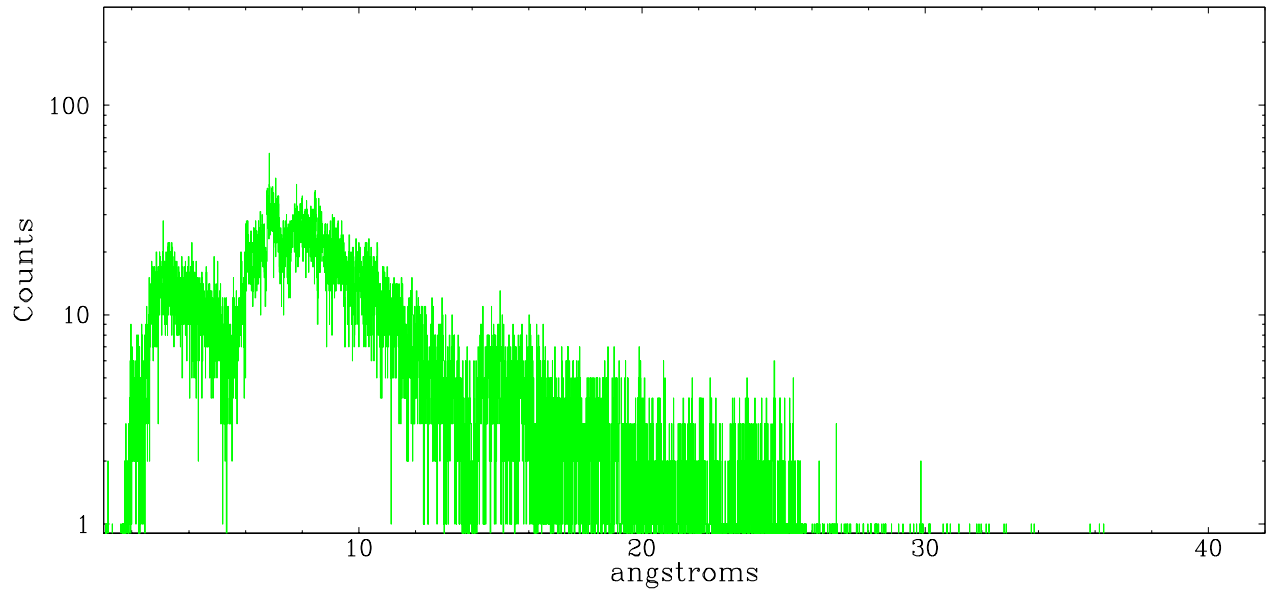


Full Detector MEG

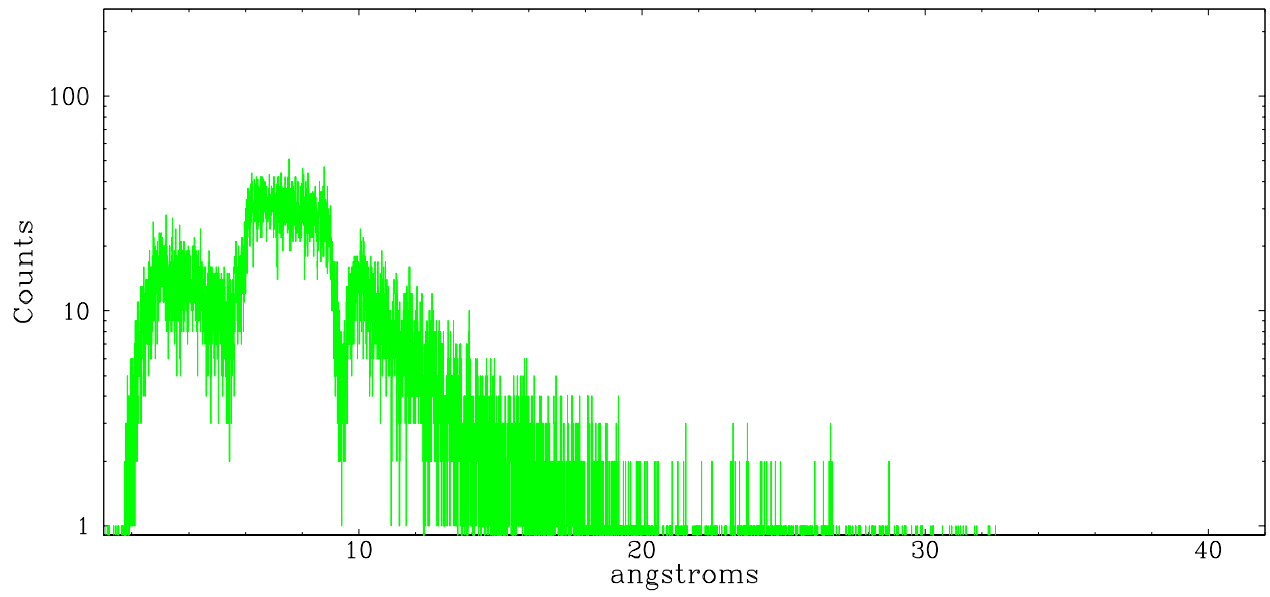
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	3971	1779	38782	46108	38773	1473	3082



meg order -1



meg order +1



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2006.08.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	153.895

A.2 Comments