

V&V Reference Report

L2 ASCDS Version : 7.6.9

Observation 1898 - L2 Version 001
Chandra X-Ray Center

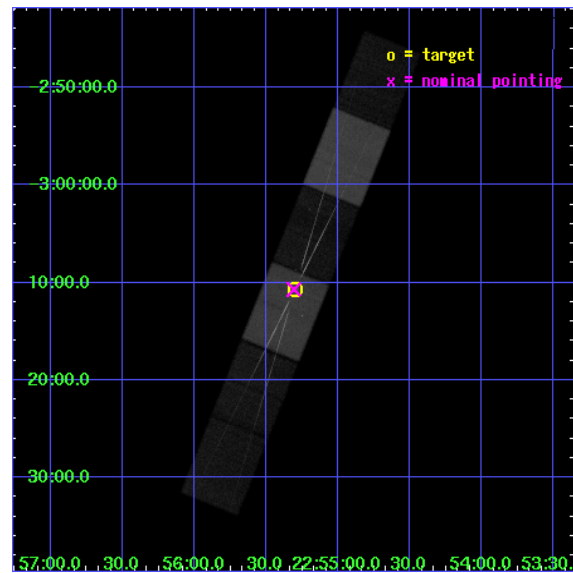
L2 Processing Date : Nov 24 2006

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1 Front

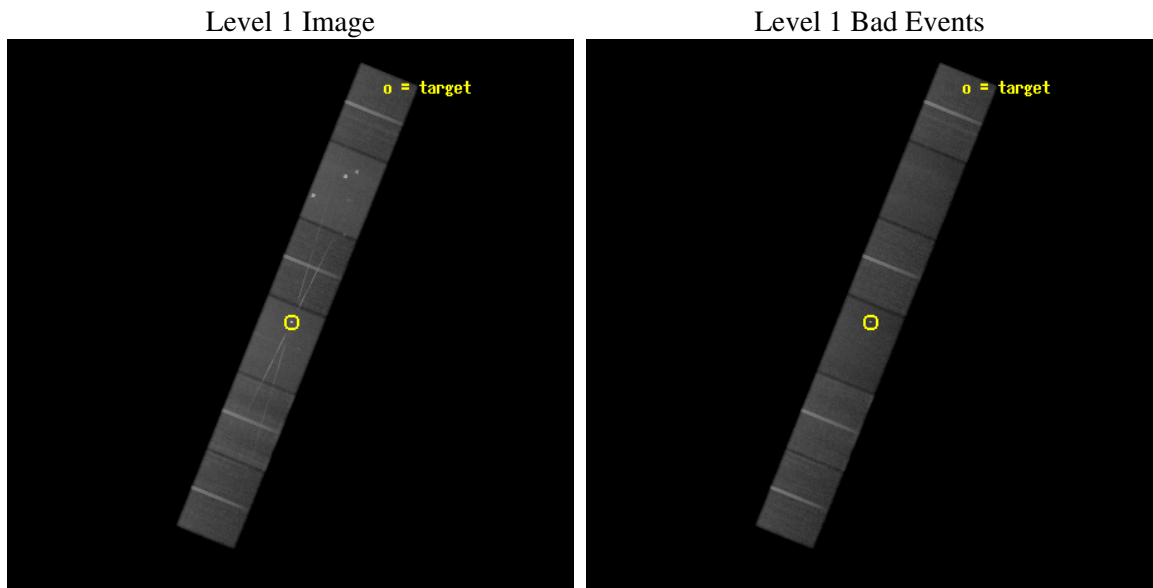
seq_num	300046
obs_id	1898
title	IRON LINE BROADENING IN THE INTERMEDIATE POLAR AO PSC
observer	Dr Coel Hellier
object	AO PSC
dtcycle	0
cycle	P
ra_targ	343.825
dec_targ	-3.177889
ra_nom	343.82711350911
dec_nom	-3.1785208768376
roll_nom	111.93909387155
revision	2
ontime	100117.45900986
livetime	98500.475208827
ontime4	100114.91799976
ontime5	100117.45900986
ontime6	100114.9180197
ontime7	100117.45900986
ontime8	100117.45903976
ontime9	100117.45900986
l2events	789443



2 OBI

2.1 OBI

2.1.1 Images

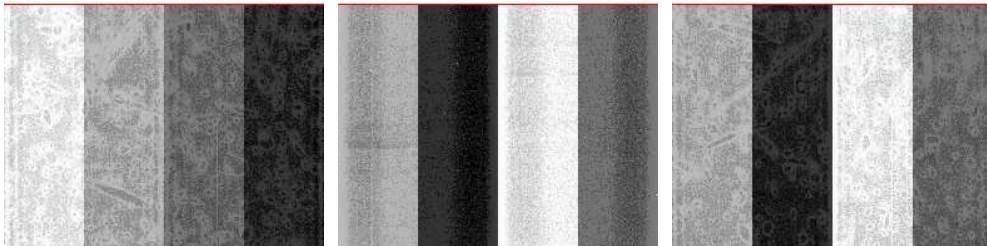


2.1.2 Bias

Chip 4

Chip 5

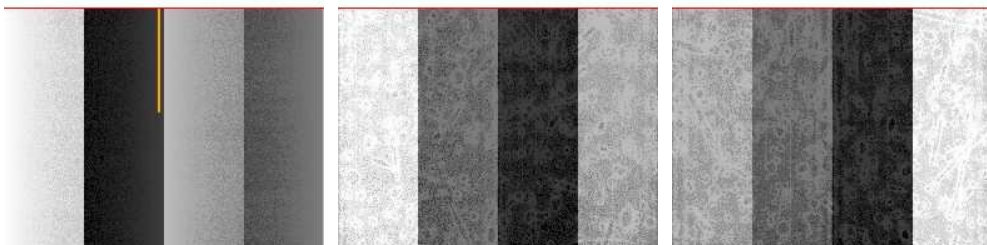
Chip 6



Chip 7

Chip 8

Chip 9



2.1.3 Parameters

obi_num	0
ascdsver	7.6.9
caldsver	3.2.4
date	2006-11-23T07:40:03
revision	2

sched_exp_time	100000.000000
ontime	100120.75367726
ontime4	100118.21266717
ontime5	100120.75367726
ontime6	100118.2126871
ontime7	100120.75367726
ontime8	100120.75370717
ontime9	100120.75367726
l1events	3556317

2.1.4 Events

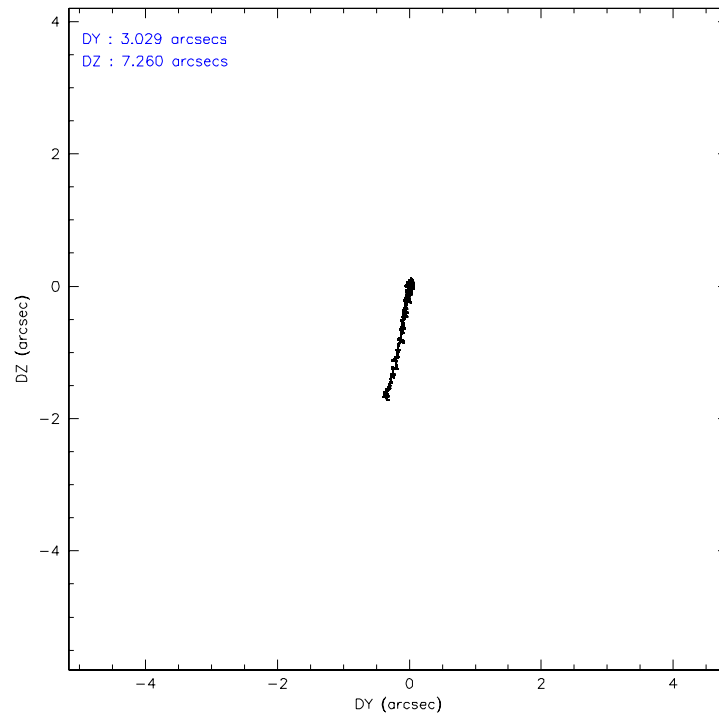
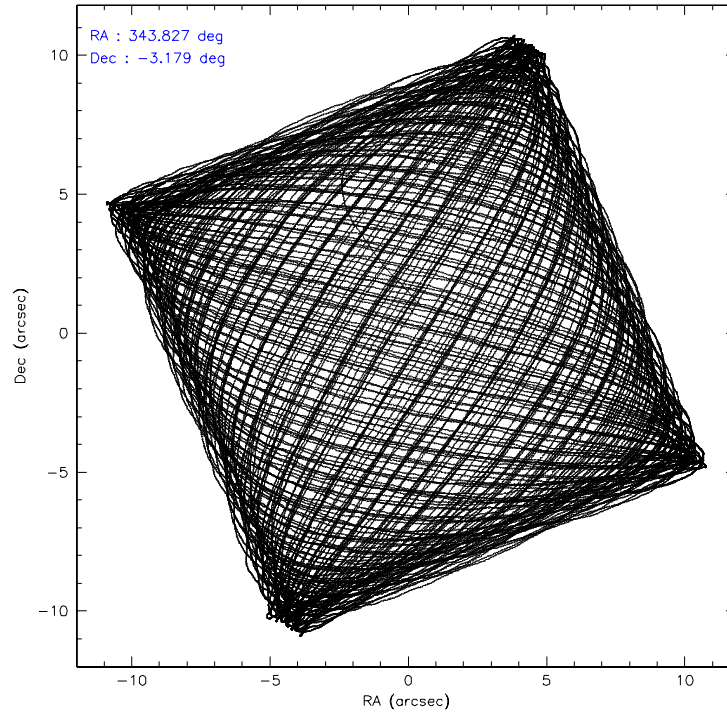
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	545104	699168	522103	669976	631393	488573
rejected events	486420	375519	444102	381816	502547	430530
rejected %	89%	53%	85%	56%	79%	88%

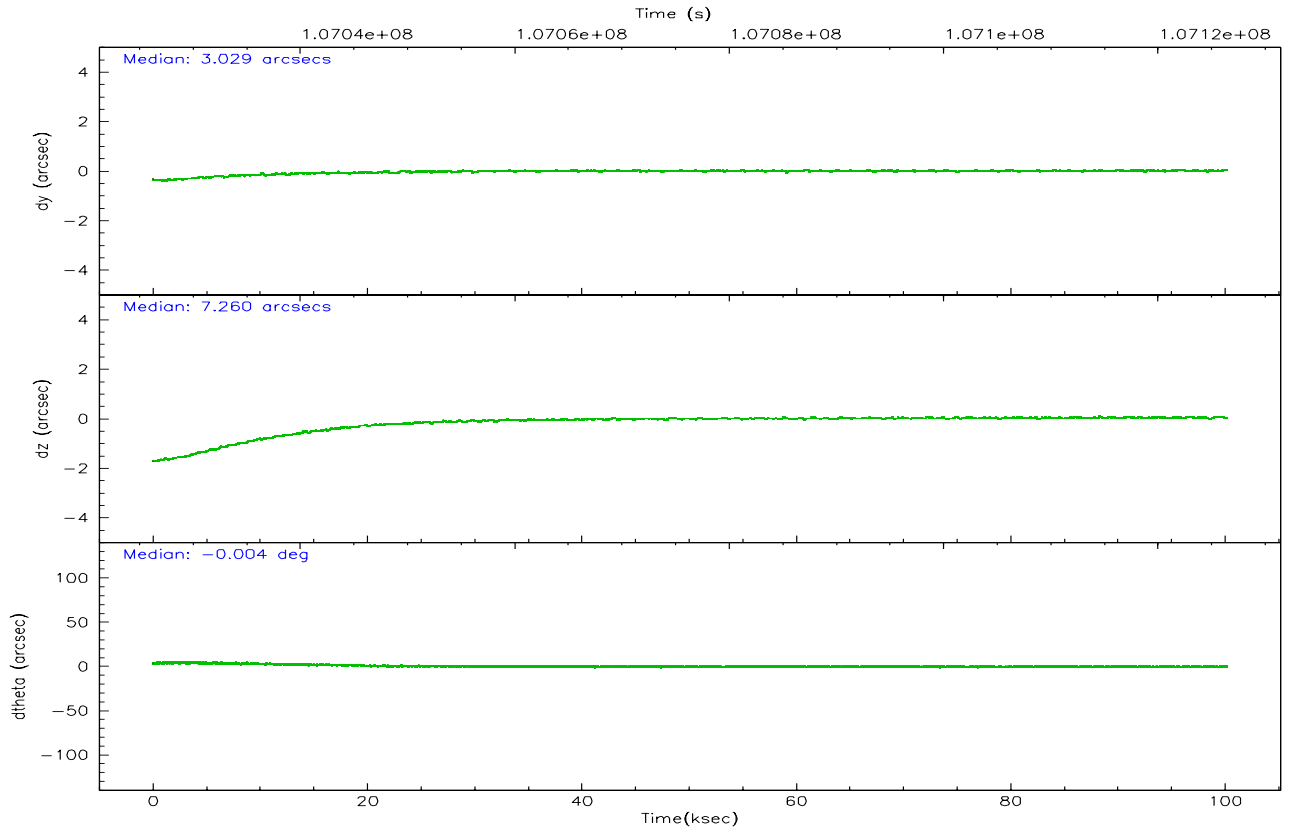
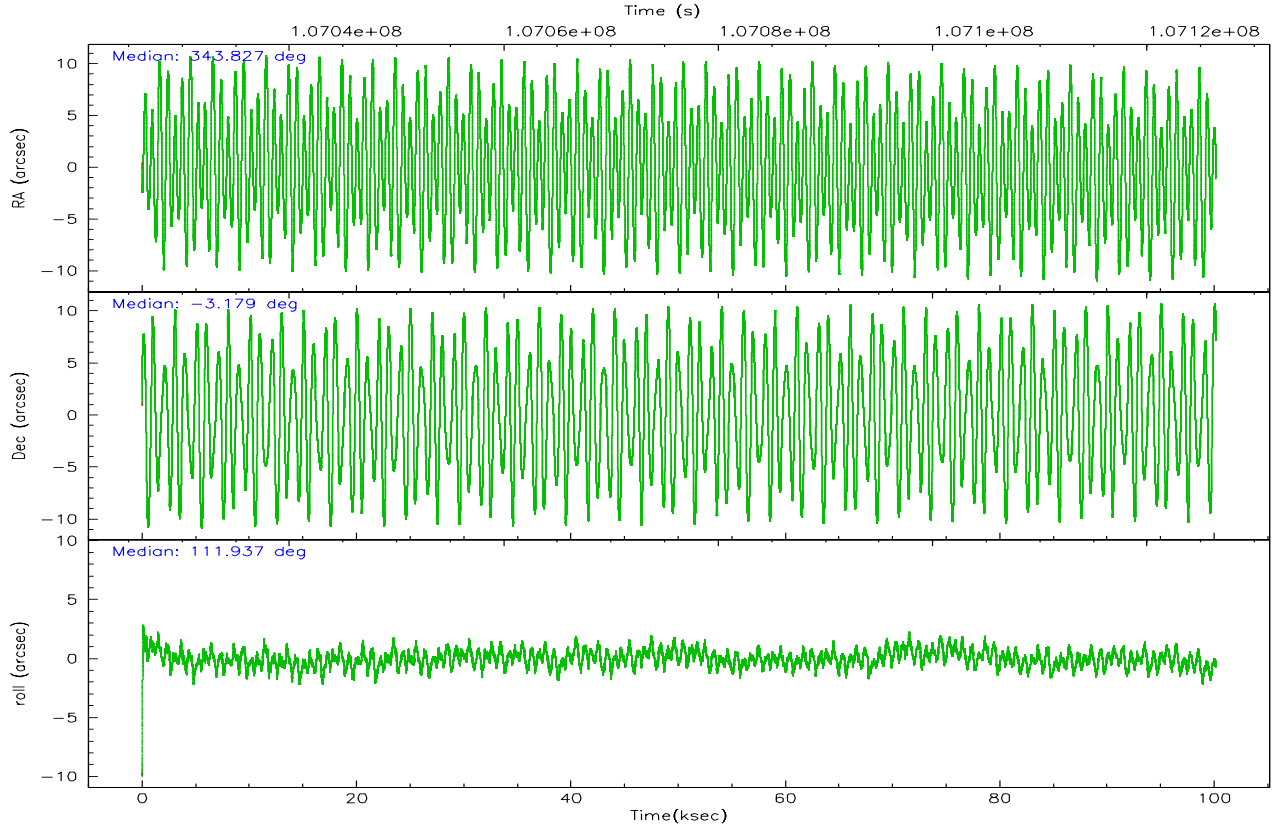
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	23364	49012	37823	22283	42044	23225
	4%	7%	7%	3%	6%	4%
grade 1 events	225	601	279	747	289	209
	0%	0%	0%	0%	0%	0%
grade 2 events	13557	89492	13932	69475	27243	11525
	2%	12%	2%	10%	4%	2%
grade 3 events	5929	8495	7080	18922	13665	6293
	1%	1%	1%	2%	2%	1%
grade 4 events	5636	8094	6976	18364	12730	5836
	1%	1%	1%	2%	2%	1%
grade 5 events	17234	34637	20088	46787	25834	20794
	3%	4%	3%	6%	4%	4%
grade 6 events	10201	168561	12192	159131	33165	11164
	1%	24%	2%	23%	5%	2%
grade 7 events	468958	340276	423733	334267	476423	409527
	86%	48%	81%	49%	75%	83%

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	343.848805	343.827113509114	Subarray requested	CUSTOM	CUSTOM
Pointing Dec	-3.195135	-3.178520876837645	Subarray start row	1	1
Pointing Roll	111.783676	111.9390938715515	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	107026439.184000	107025472.54025			
Observation start date	2001-05-23T17:32:55	2001-05-23T17:17:52			
Observation end time	107126439.184000	107127277.59422			
Observation end date	2001-05-24T21:19:35	2001-05-24T21:34:37			
Read mode	TIMED	TIMED			

2.3 Aspect



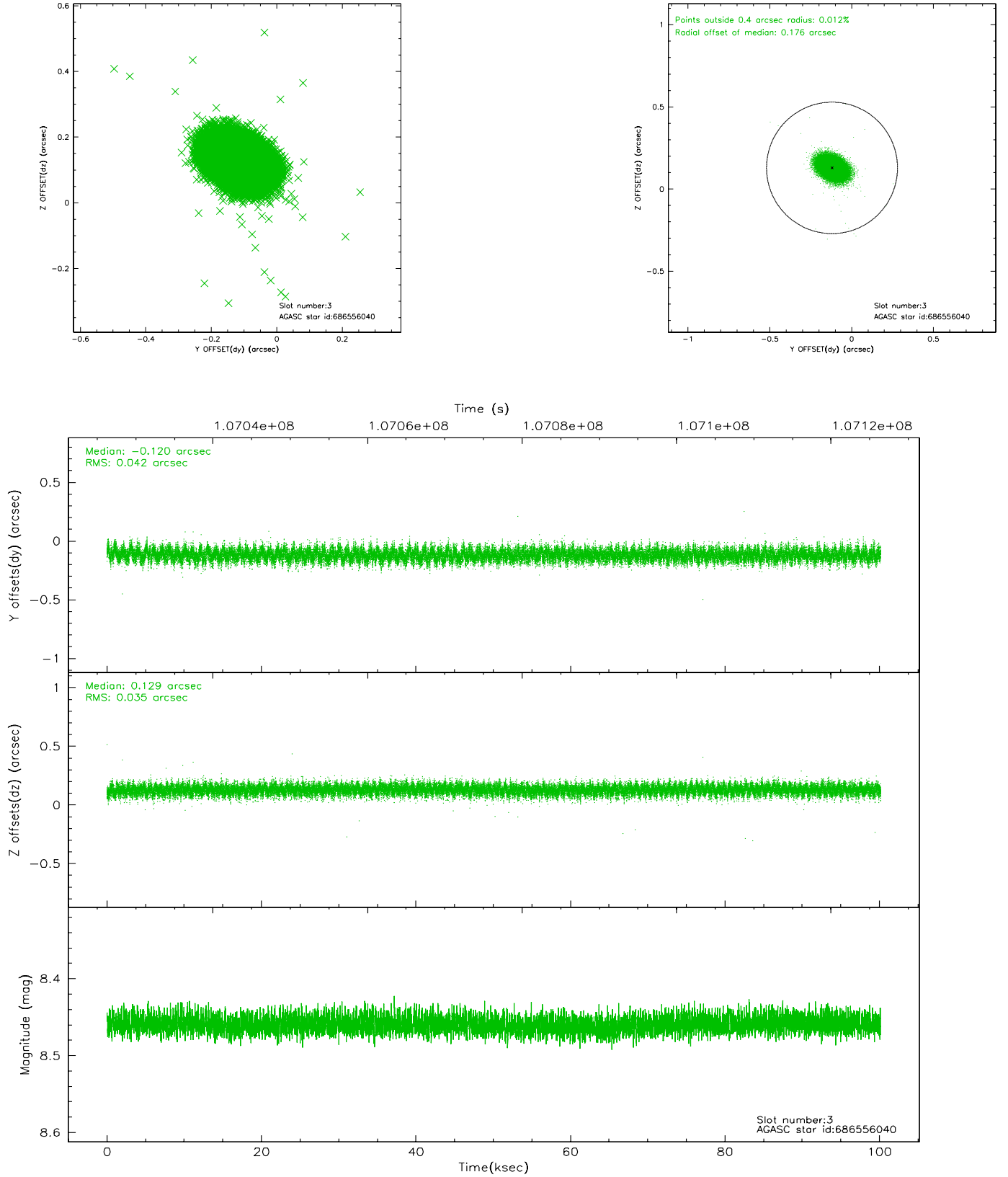


Slot Statistics

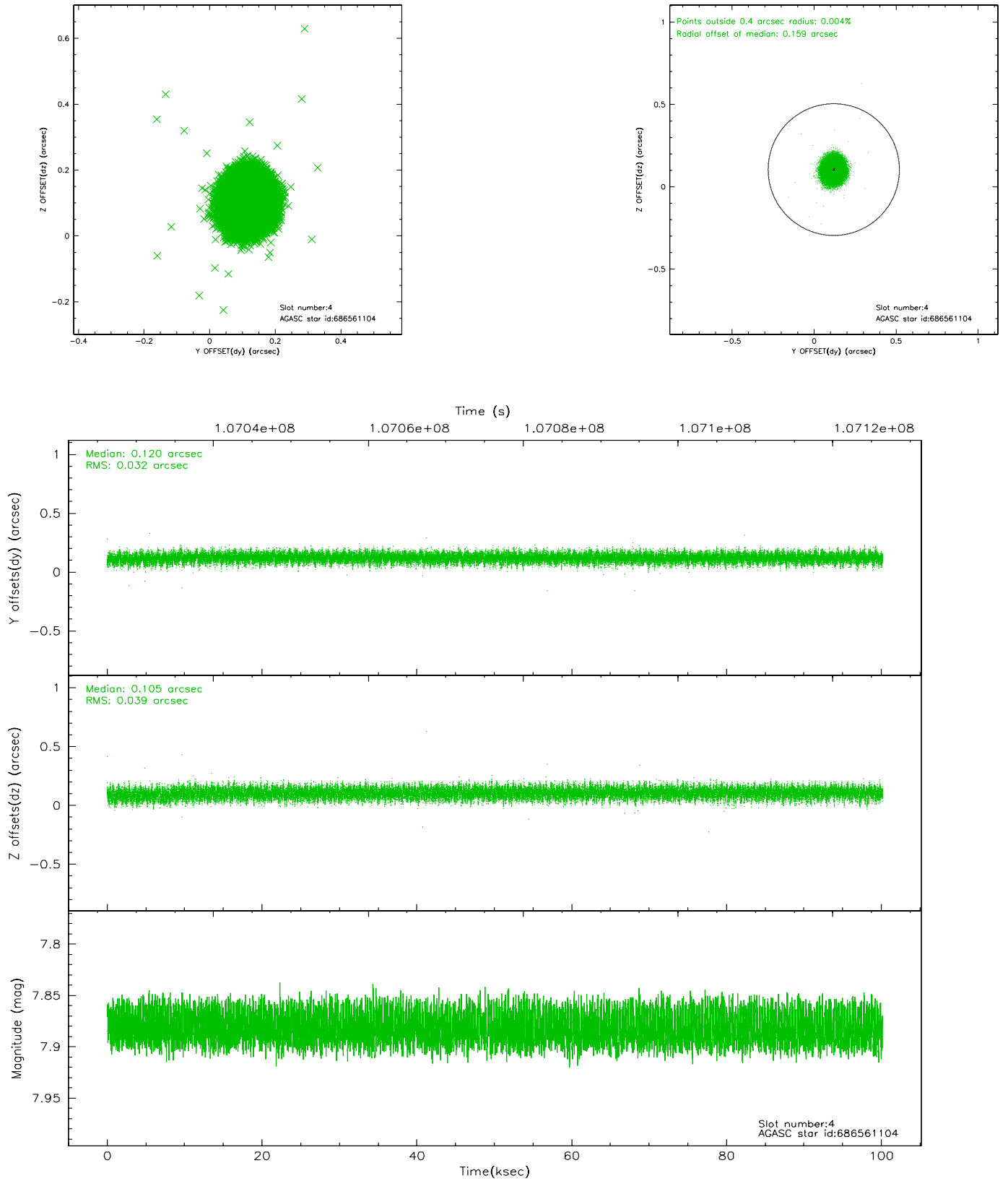
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-3	7.36	24434	-0.092	0.026	0.009	0.043	0.000000	0.000000	57.66	-1919.42
1	FID	ACIS-S-4	7.20	24434	-0.025	0.037	0.007	0.016	0.000000	0.000000	2157.89	118.20
2	FID	ACIS-S-5	7.23	24435	0.089	-0.052	0.007	0.044	0.000000	0.000000	-1808.30	111.73
3	GUIDE	686556040	8.46	48854	-0.120	0.129	0.057	0.095	343.910953	-2.842277	1096.51	-678.77
4	GUIDE	686561104	7.88	48860	0.120	0.105	0.054	0.086	344.358007	-3.157427	-553.64	-1749.82
5	GUIDE	686558088	8.83	48844	-0.060	-0.142	0.060	0.097	343.571111	-2.857439	1499.01	476.08
6	GUIDE	686561896	9.74	48770	-0.127	-0.162	0.092	0.150	343.287014	-2.967308	1510.46	1571.25
7	GUIDE	686562240	8.48	48862	0.189	0.071	0.060	0.094	344.180513	-3.526999	-1551.76	-663.38

2.4 Star Slots

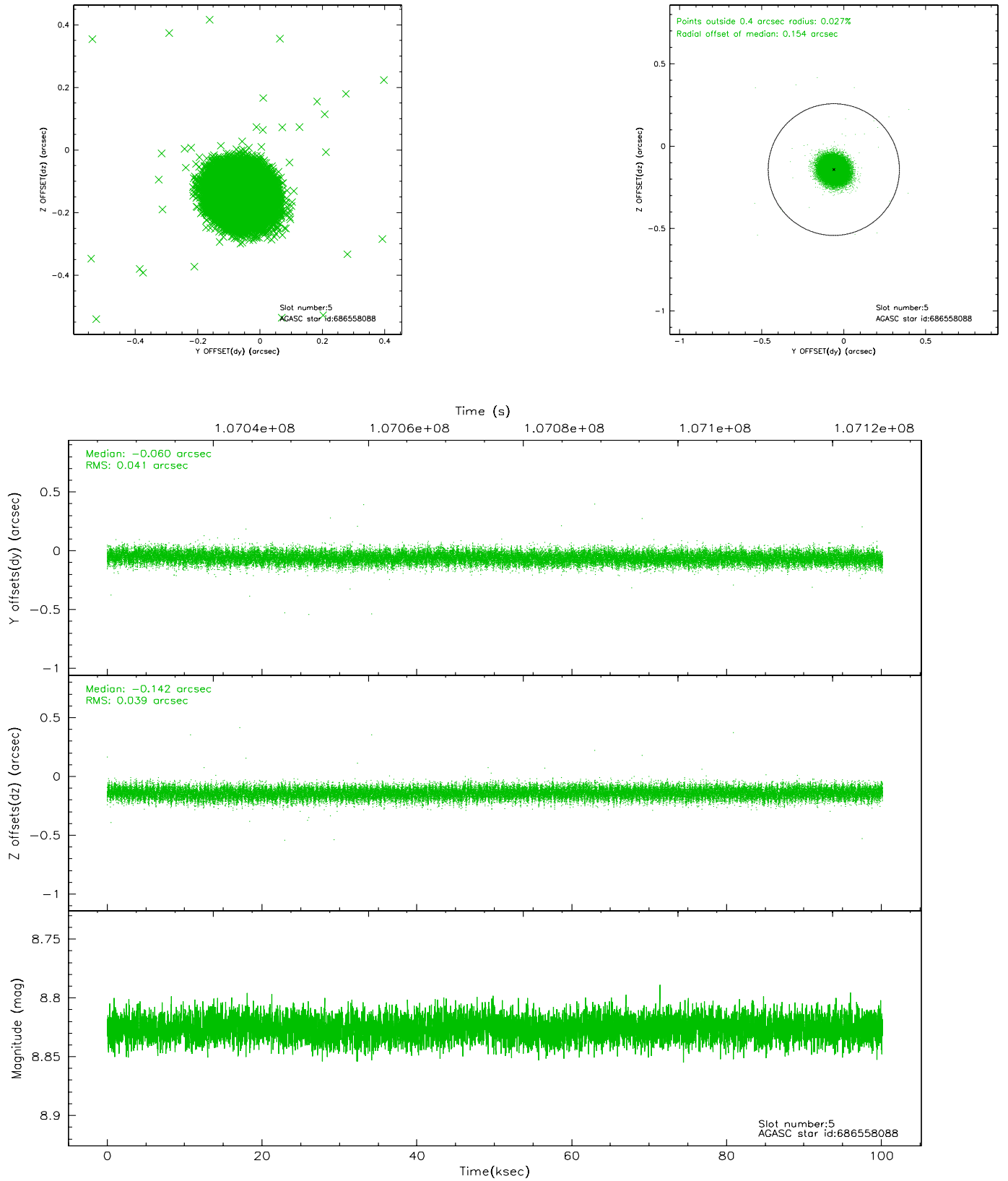
2.4.1 Slot 3



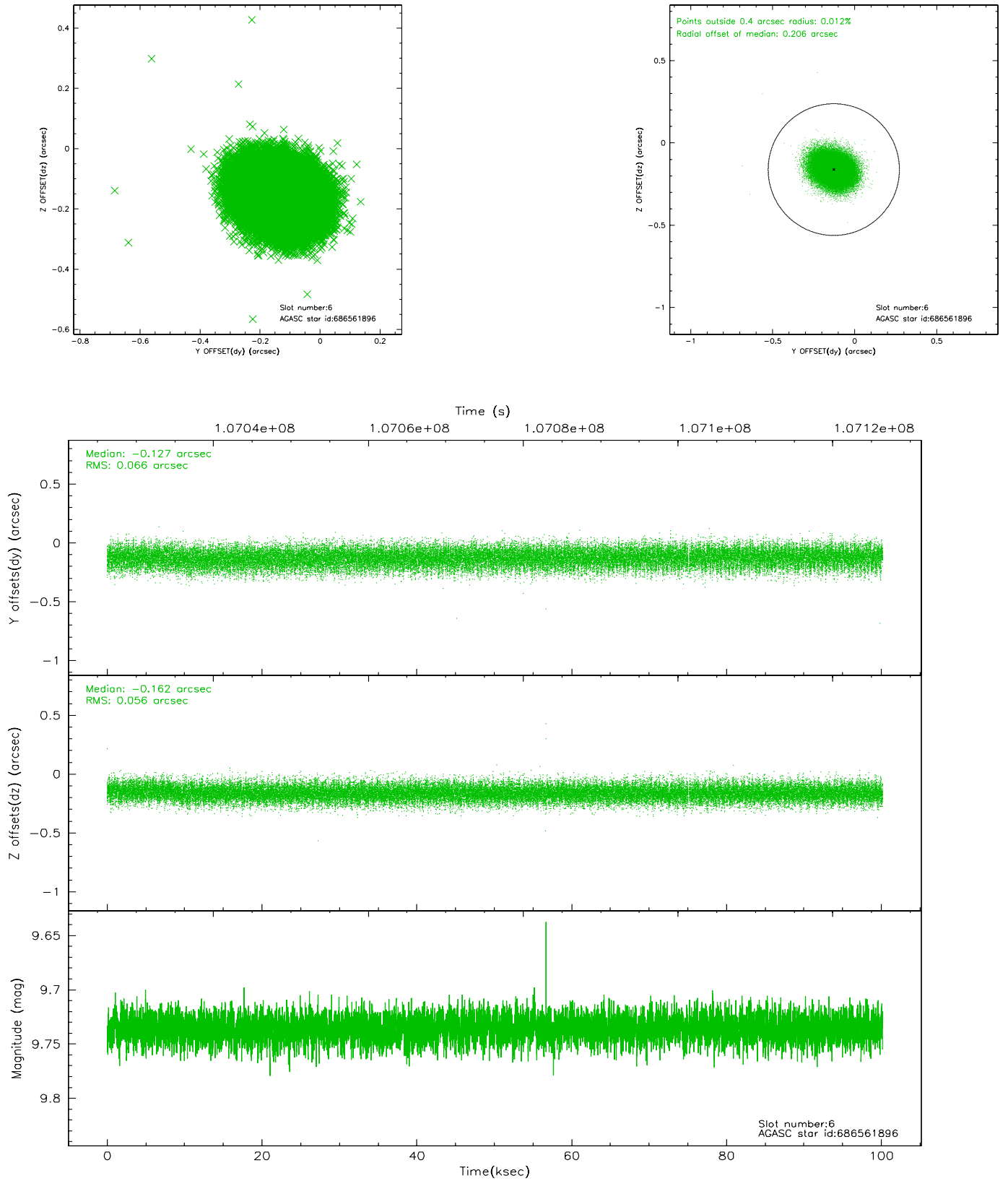
2.4.2 Slot 4



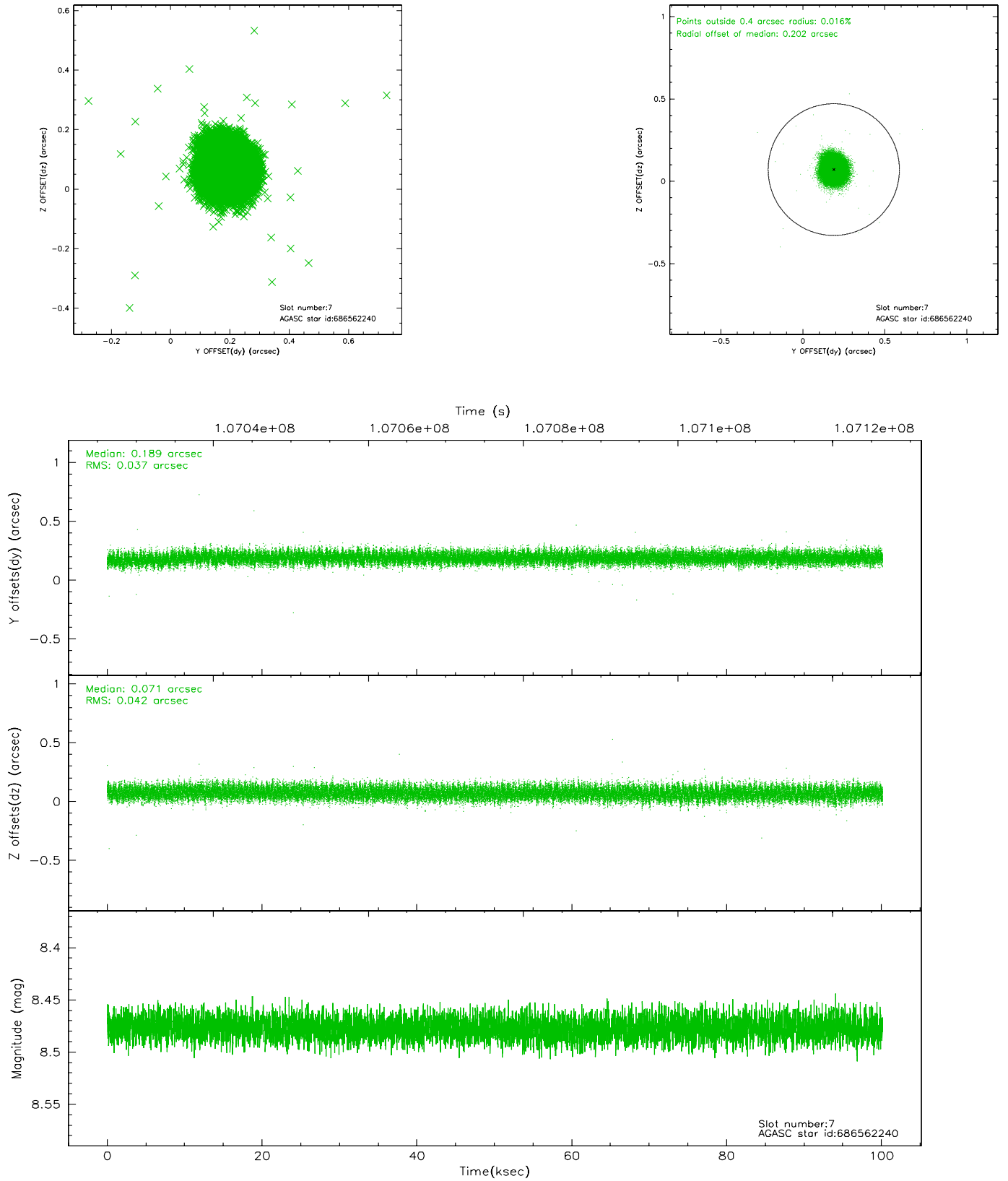
2.4.3 Slot 5



2.4.4 Slot 6

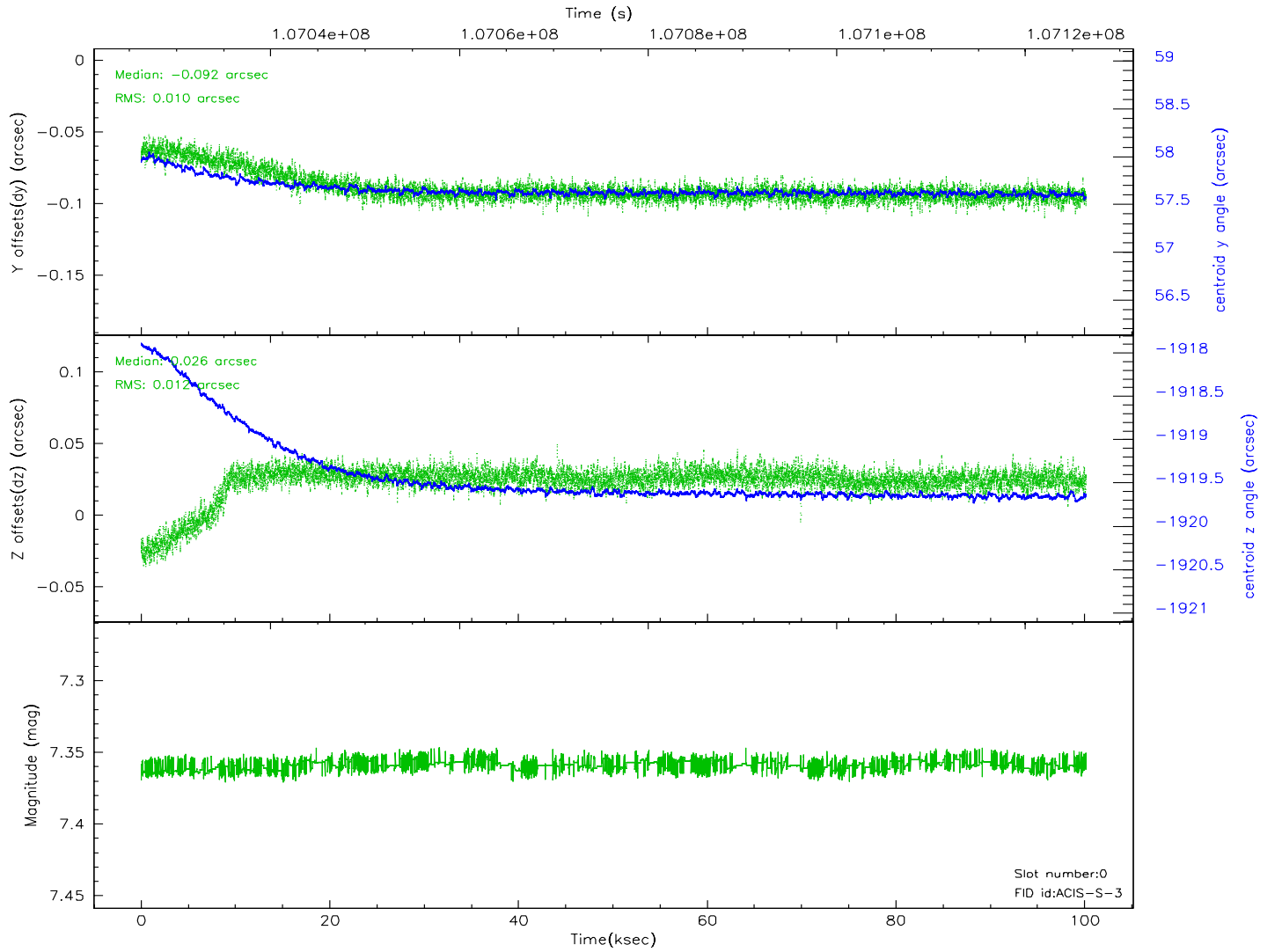
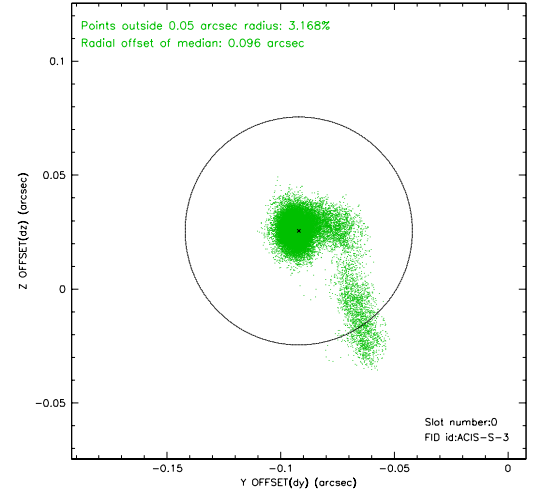
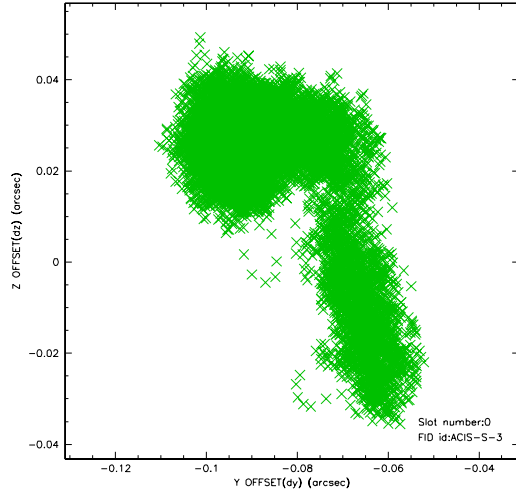


2.4.5 Slot 7

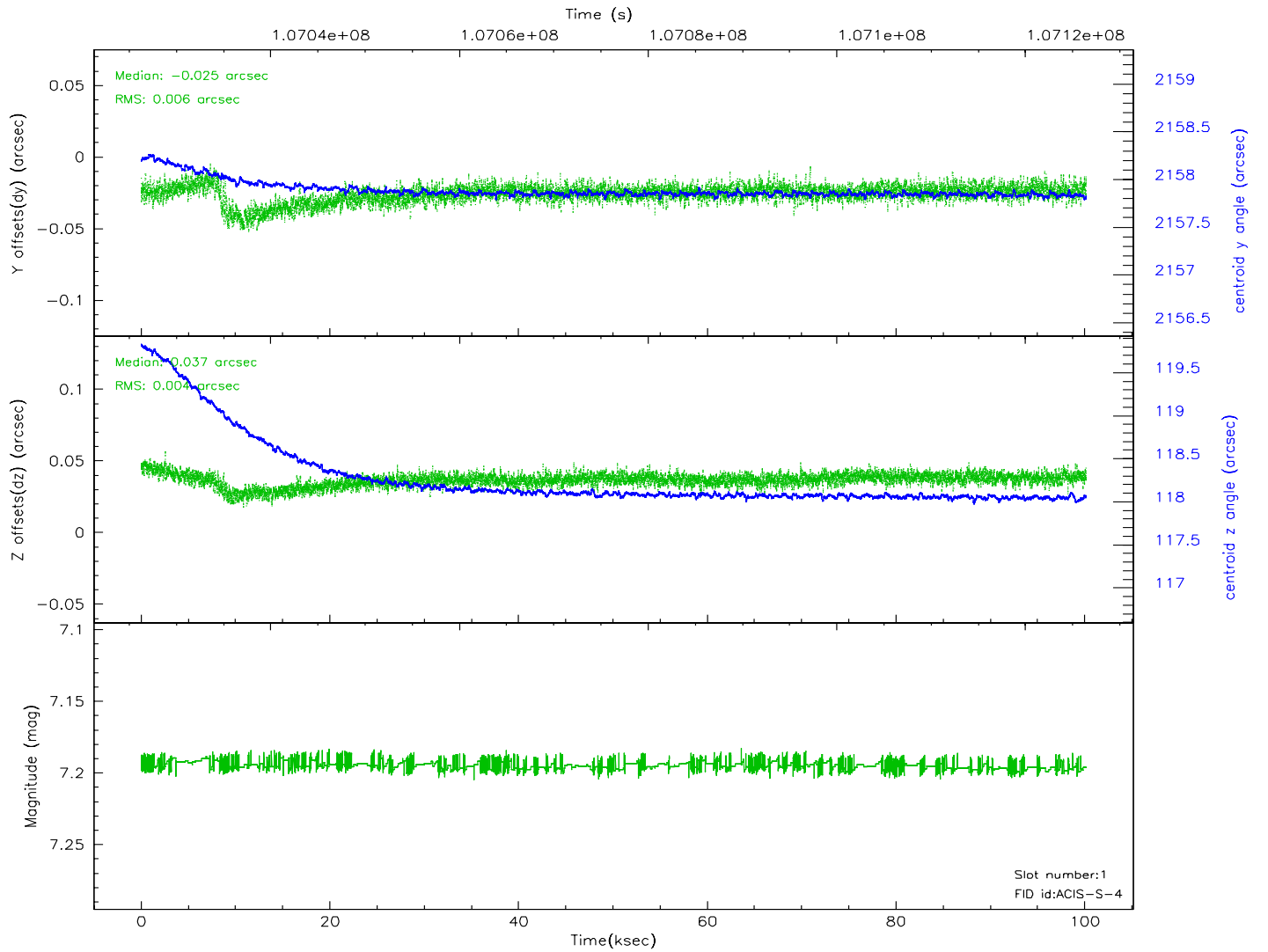
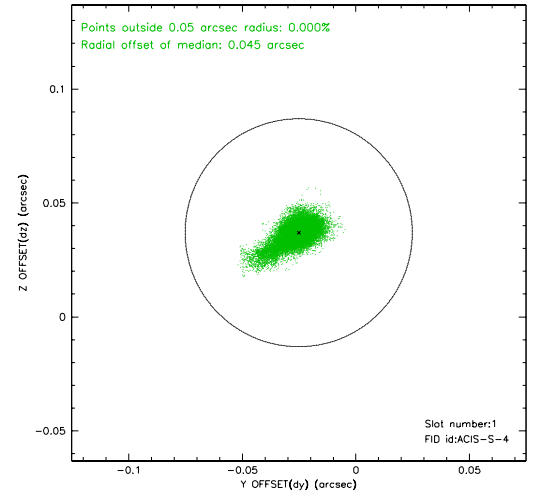
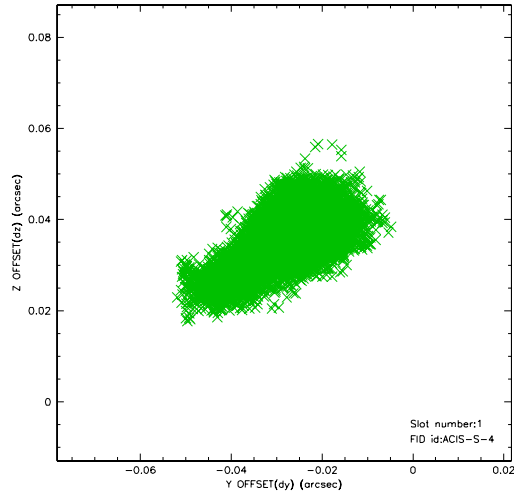


2.5 FID Slots

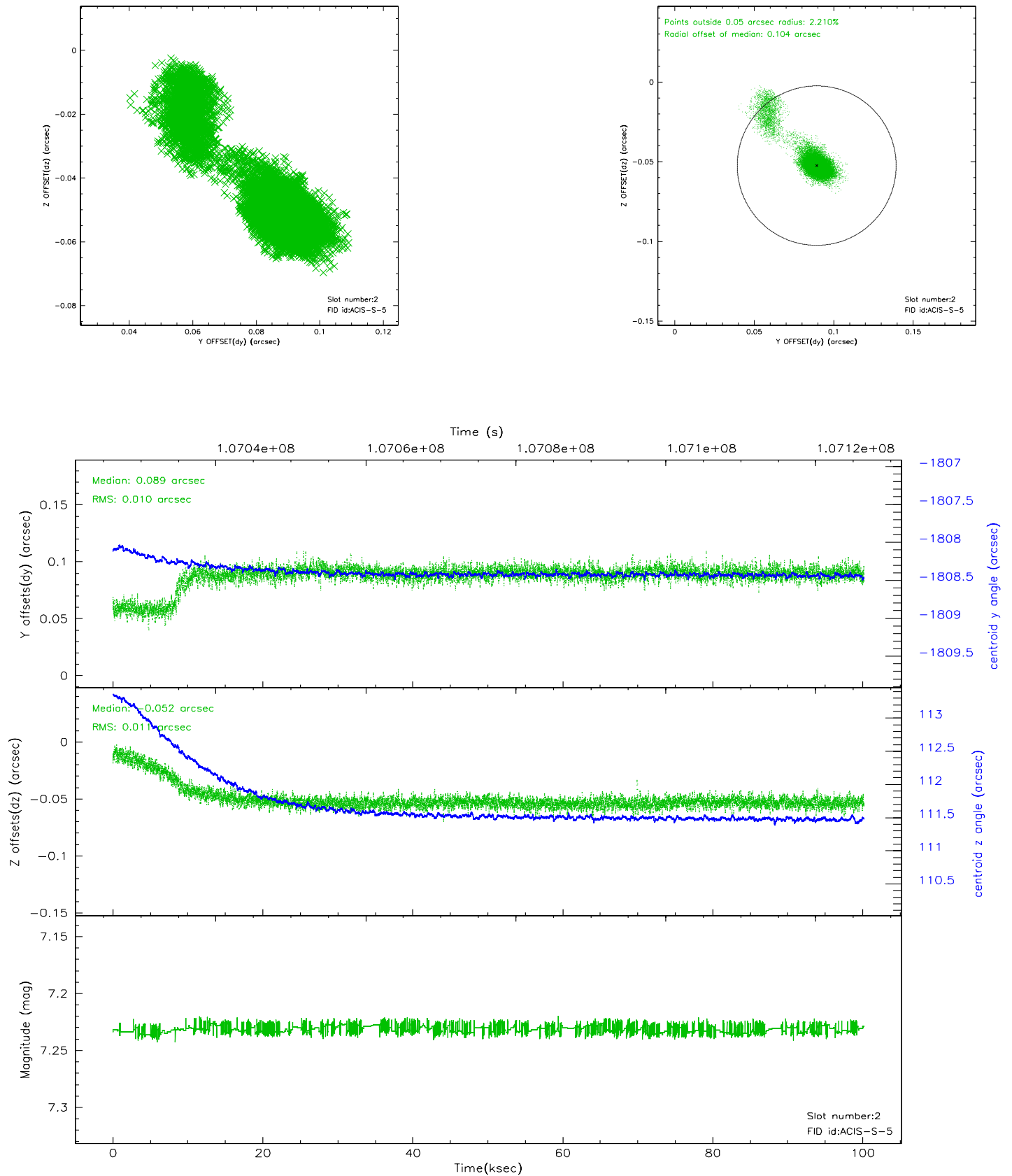
2.5.1 Slot 0



2.5.2 Slot 1

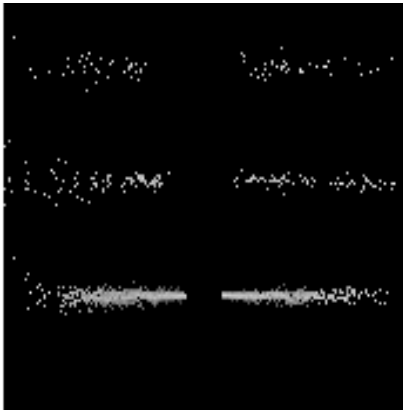


2.5.3 Slot 2

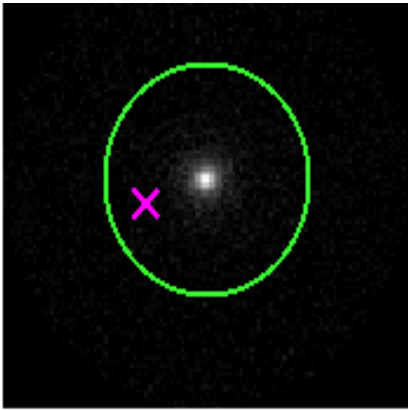


3 Gratings

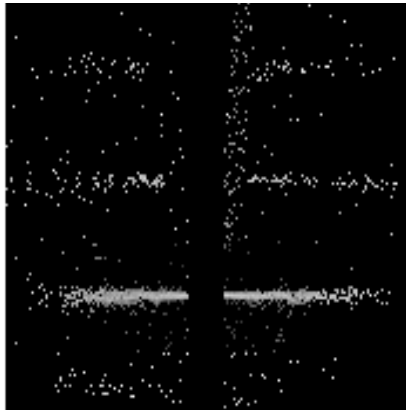
3.1 HEG Arm



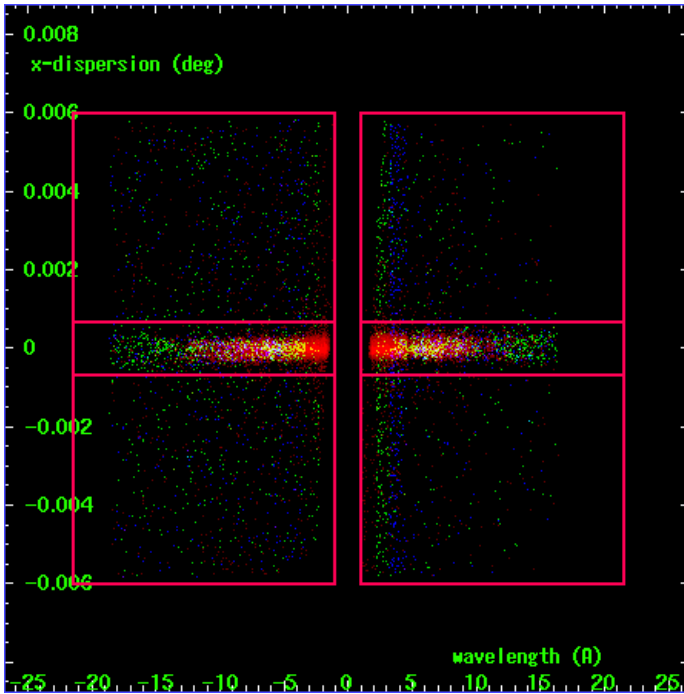
HEG Order Sort 123



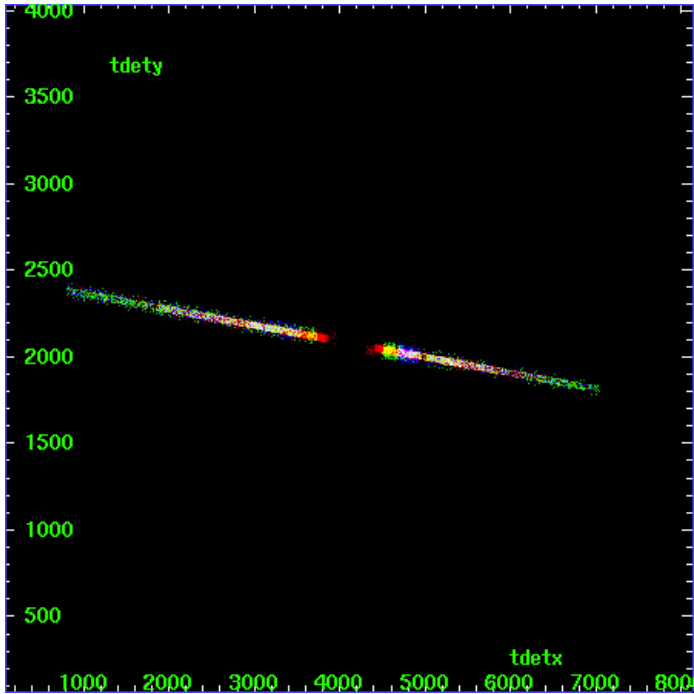
HEG Zero Order



HEG Order Sort ALL

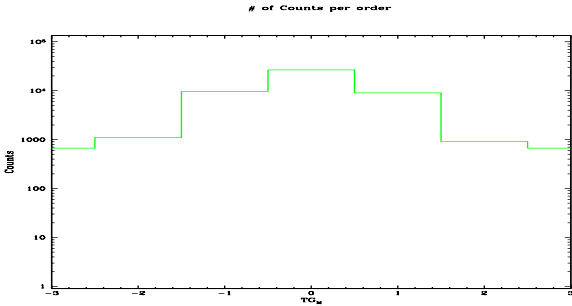


Spot Image HEG

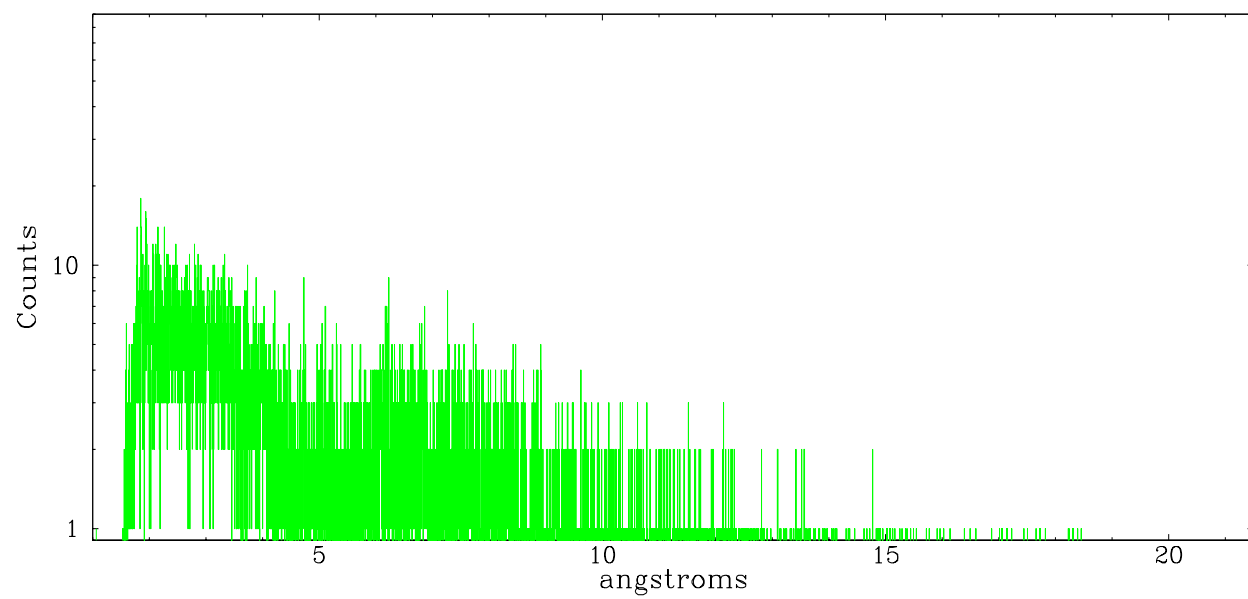


Full Detector HEG

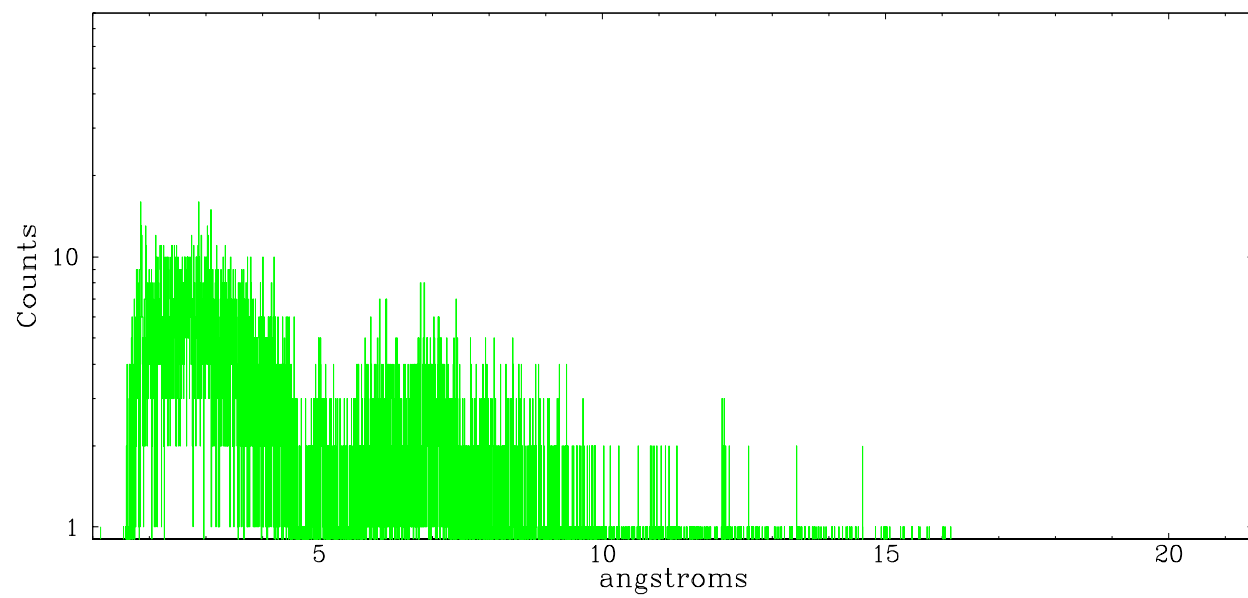
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	668	1109	9625	26659	9014	922	668



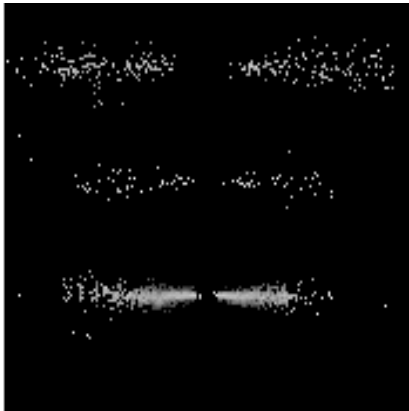
heg order -1



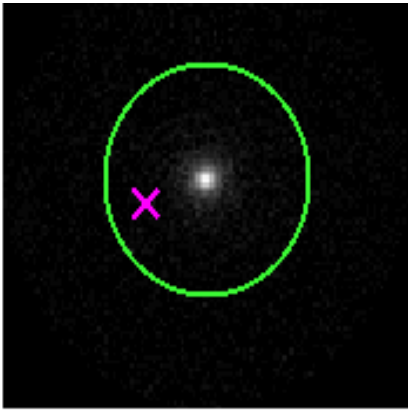
heg order +1



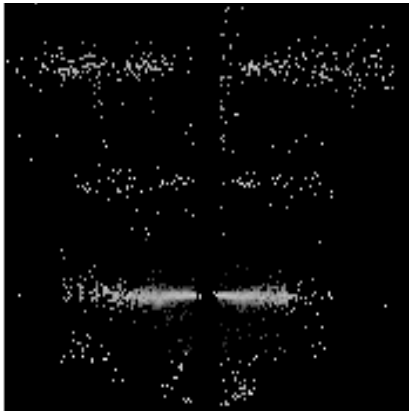
3.2 MEG Arm



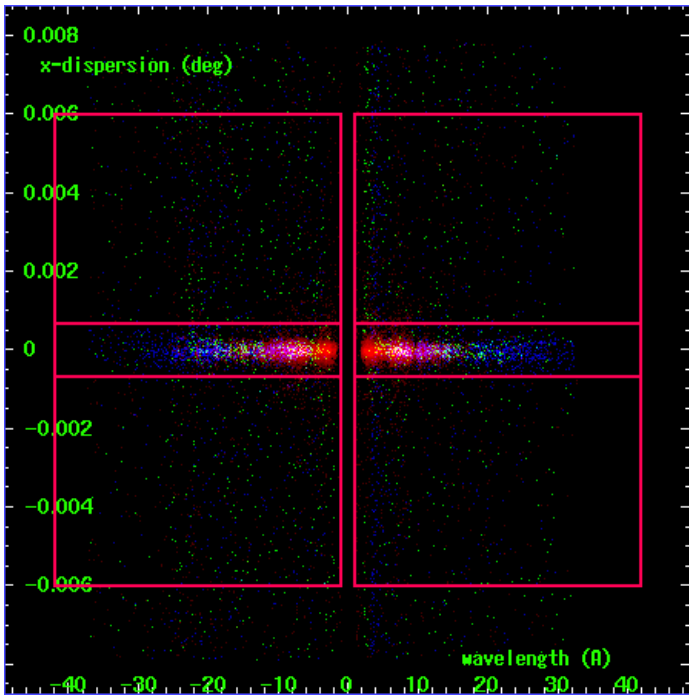
MEG Order Sort 123



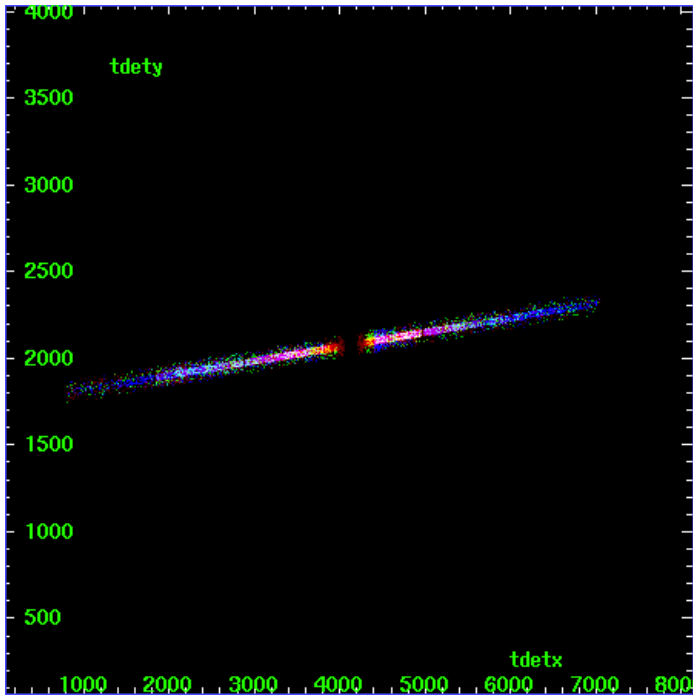
MEG Zero Order



MEG Order Sort ALL

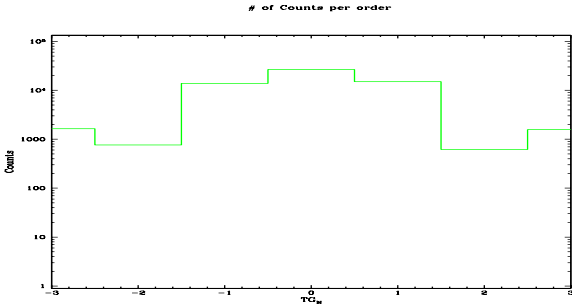


Spot Image MEG

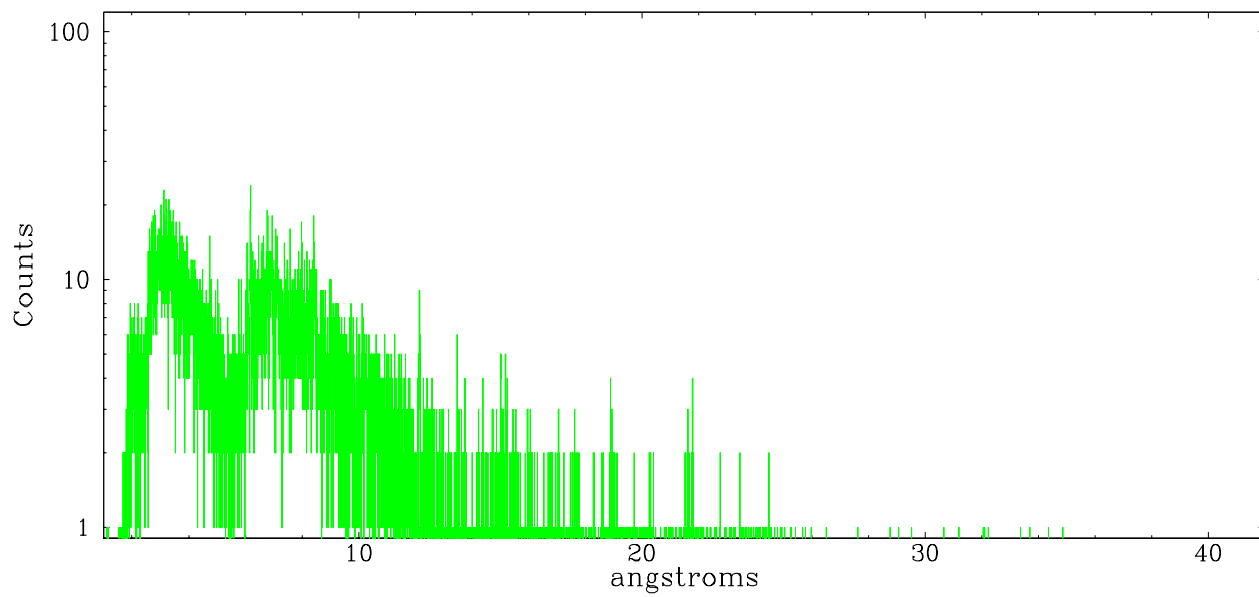


Full Detector MEG

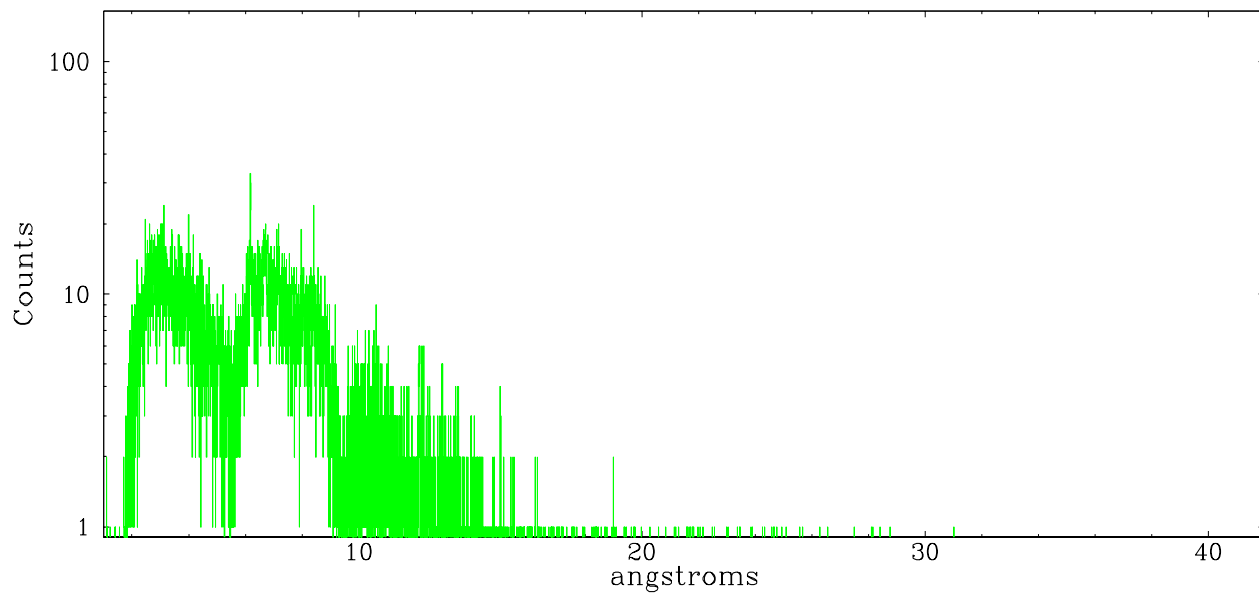
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	1638	764	13820	26659	15028	617	1566



meg order -1



meg order +1



A Summary

A.1 Status

V&V Scientist	David Huenemoerder
V&V Date (YYYY-MM-DD)	2006.11.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	100.11

A.2 Comments