

V&V Reference Report

L2 ASCDS Version : 7.6.9

Observation 2463 - L2 Version 001
Chandra X-Ray Center

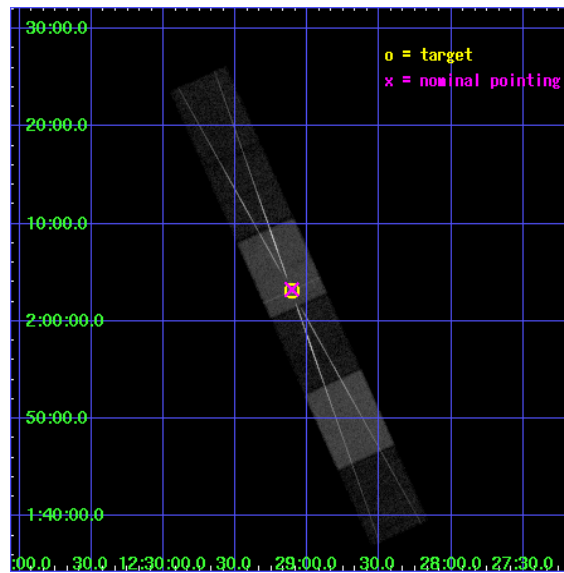
L2 Processing Date : Nov 28 2006

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1 Front

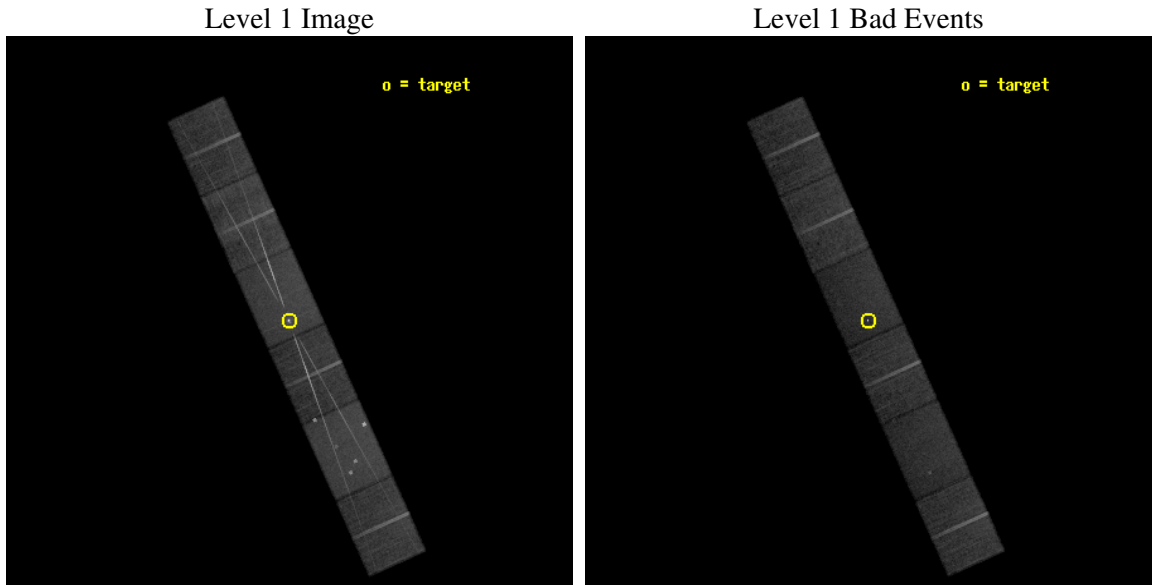
seq_num	790057
obs_id	2463
title	AO3 CALIBRATION OBSERVATIONS OF 3C273
observer	Dr. CXC Calibration
object	3C273
dtcycle	0
cycle	P
ra_targ	187.277917
dec_targ	2.052389
ra_nom	187.27694055843
dec_nom	2.05433977699
roll_nom	245.70073037829
revision	2
ontime	27127.5
livedtime	26689.367345654
ontime4	27127.5
ontime5	27127.5
ontime6	27127.5
ontime7	27127.5
ontime8	27124.958989933
ontime9	27127.5
l2events	299342



2 OBI

2.1 OBI

2.1.1 Images

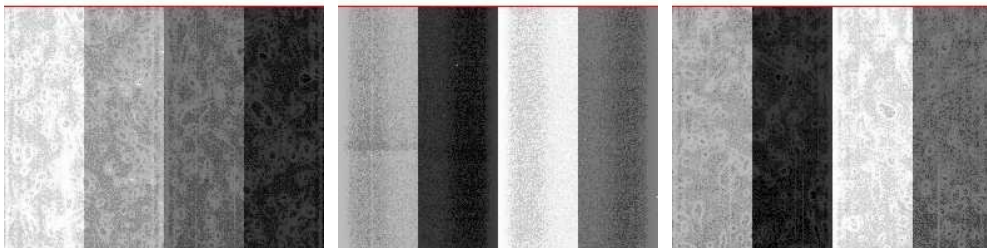


2.1.2 Bias

Chip 4

Chip 5

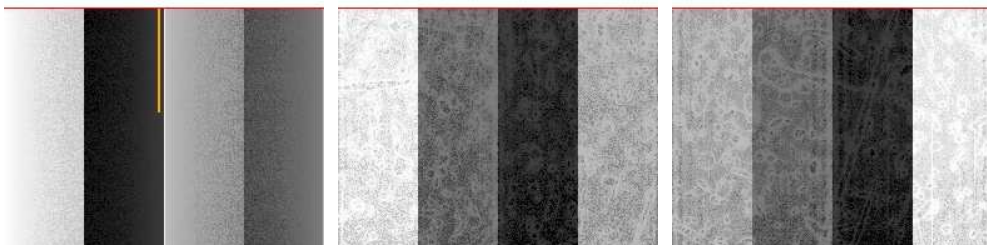
Chip 6



Chip 7

Chip 8

Chip 9



2.1.3 Parameters

obi_num	0
ascdsver	7.6.9
caldbver	3.2.4
date	2006-11-28T08:06:20
revision	2

sched_exp_time	27000.000000
ontime	27132.882047758
ontime4	27132.882047758
ontime5	27132.882047758
ontime6	27132.882047758
ontime7	27132.882047758
ontime8	27130.341037691
ontime9	27132.882047758
l1events	1076014

2.1.4 Events

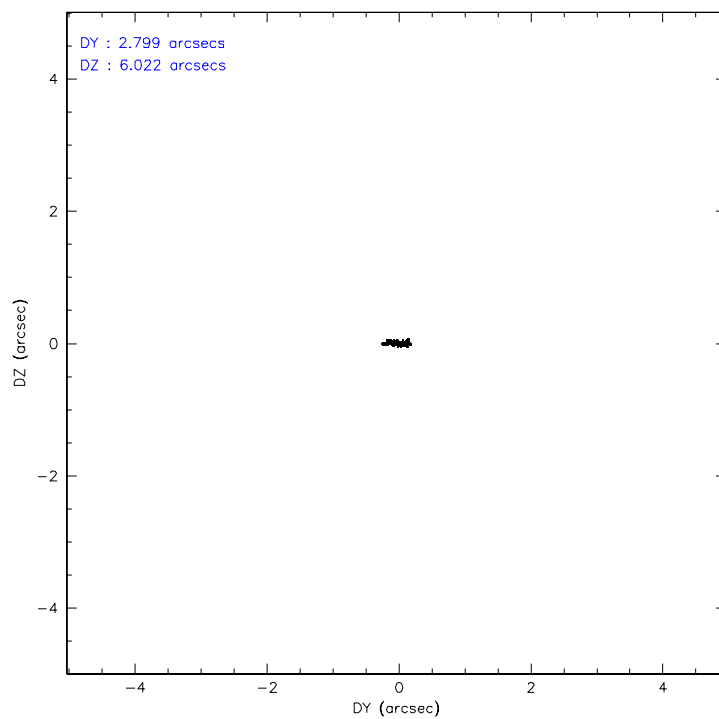
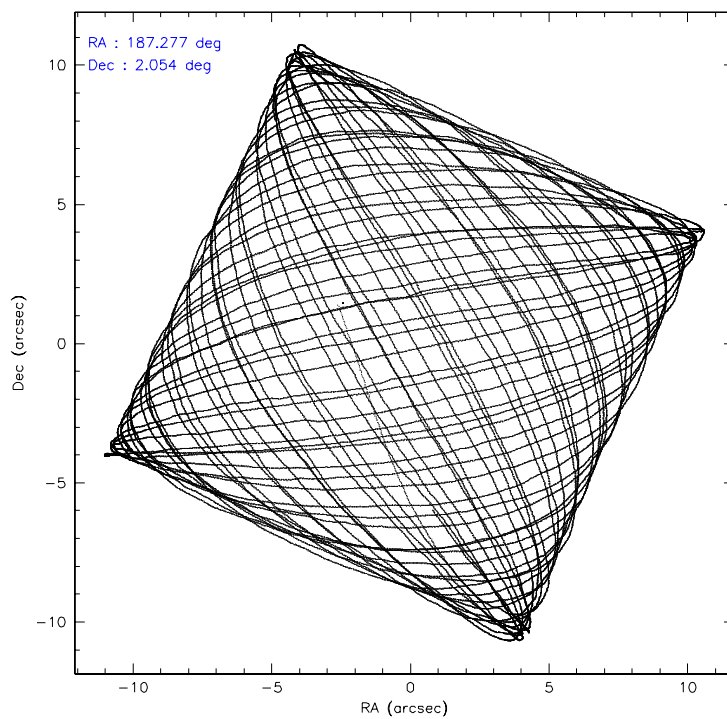
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	152439	210995	170110	213701	190507	138262
rejected events	132919	104481	121215	110122	138315	118224
rejected %	87%	49%	71%	51%	72%	85%

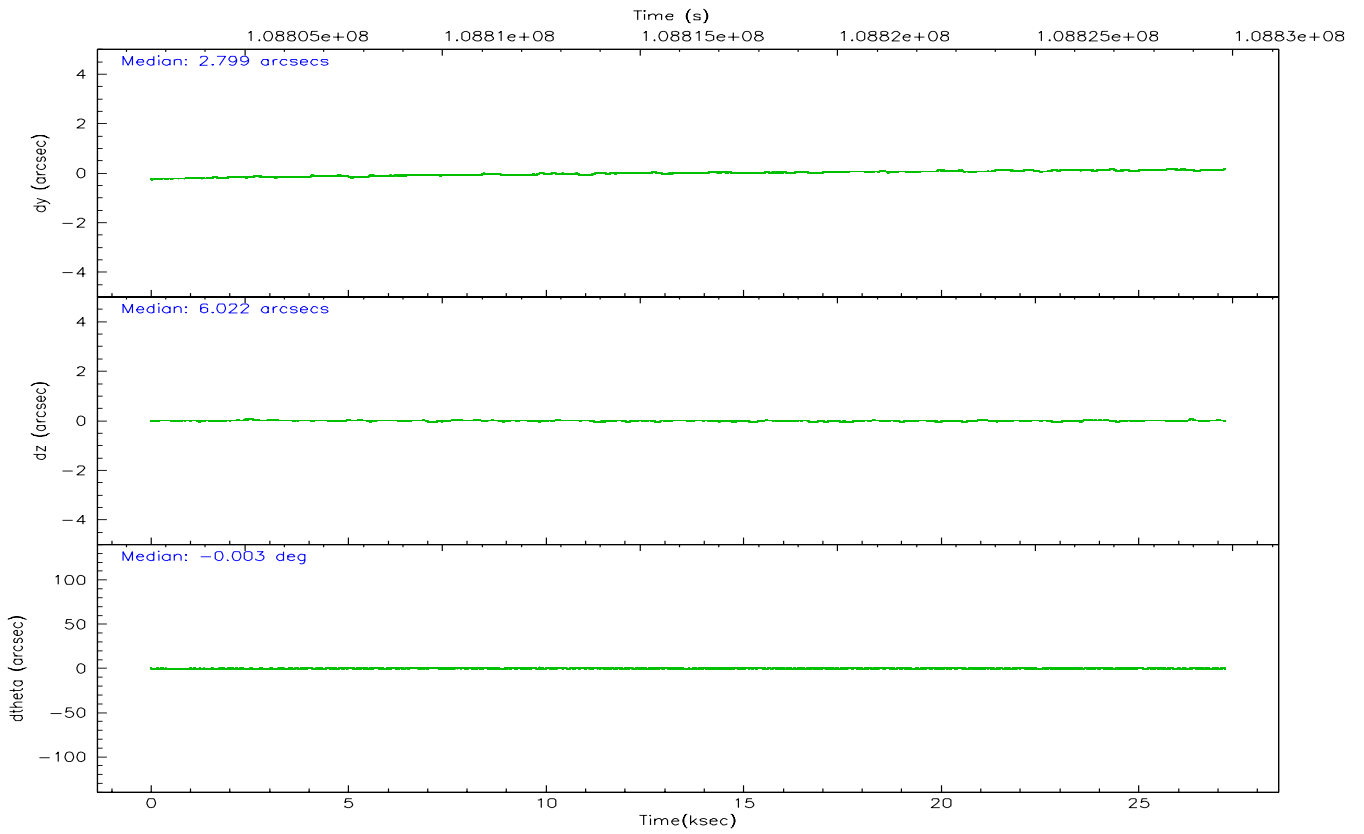
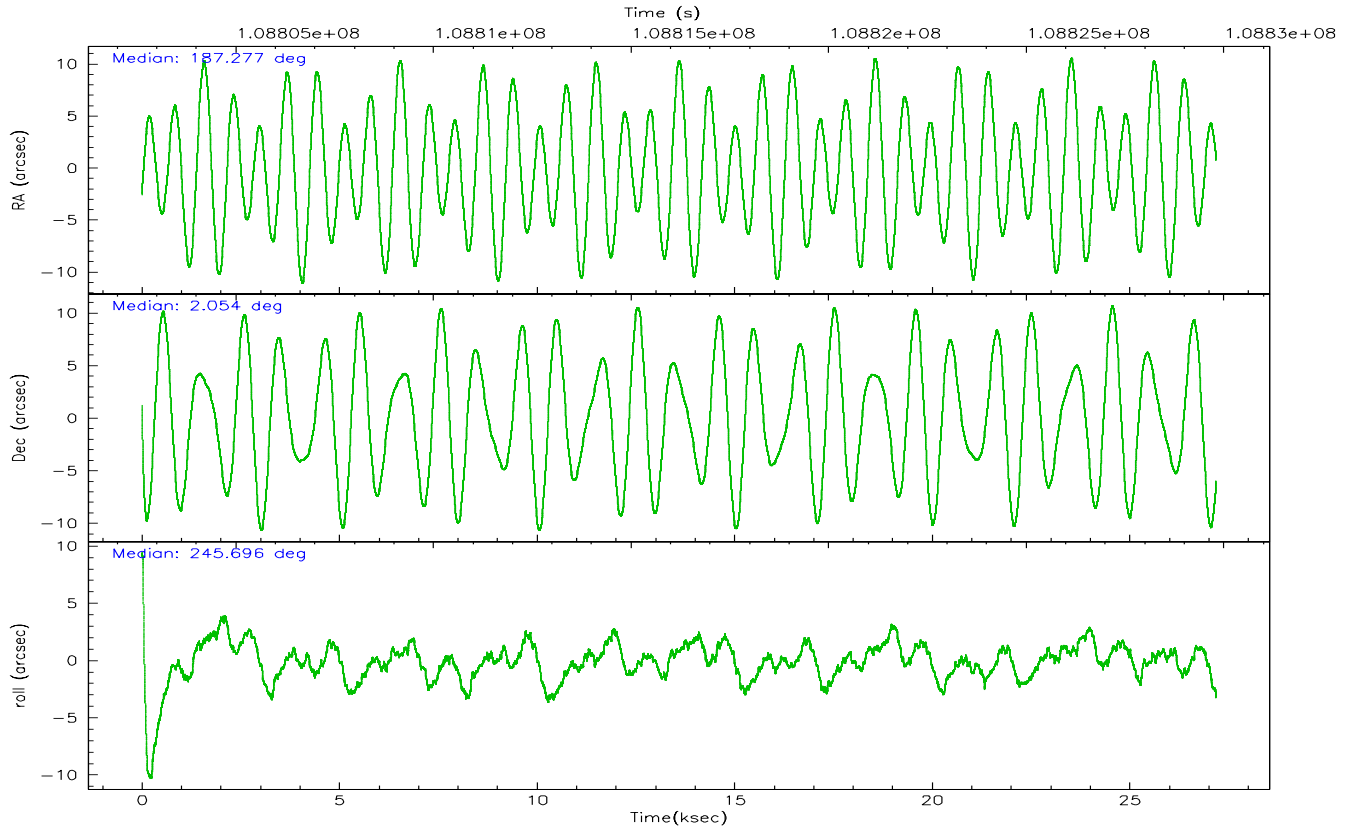
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	9047	20514	32082	11770	25092	9537
	5%	9%	18%	5%	13%	6%
grade 1 events	64	214	182	281	124	63
	0%	0%	0%	0%	0%	0%
grade 2 events	4155	30382	6777	25473	8769	3624
	2%	14%	3%	11%	4%	2%
grade 3 events	1736	3693	2891	7741	4518	1830
	1%	1%	1%	3%	2%	1%
grade 4 events	1638	3778	2830	7717	4311	1719
	1%	1%	1%	3%	2%	1%
grade 5 events	4615	9855	5564	13497	7165	5616
	3%	4%	3%	6%	3%	4%
grade 6 events	2947	48173	4324	50902	9529	3332
	1%	22%	2%	23%	5%	2%
grade 7 events	128237	94386	115460	96320	130999	112541
	84%	44%	67%	45%	68%	81%

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	187.273936	187.2769405584345	Subarray requested	CUSTOM	CUSTOM
Pointing Dec	2.081481	2.054339776989955	Subarray start row	1	1
Pointing Roll	245.544210	245.7007303782874	Subarray row count	774	774
Window start time	108792064.184000	108792064.184000	Alternating exposures requested	N	N
Window stop time	108936064.184000	108936064.184000	Primary exposure time	0.000000	2.5
SIM focus pos (mm)	-0.684267	-0.6828225247311905			
SIM defocus (mm)	0	0.001444936568705701			
SIM translation stage pos (mm)	-187.132523	-187.1254020033014			
SIM translation stage offset (mm)	-3	-3.007120579706367			
Observation start time	108802809.184000	108801745.33445			
Observation start date	2001-06-13T06:59:05	2001-06-13T06:42:25			
Observation end time	108829809.184000	108830159.87305			
Observation end date	2001-06-13T14:29:05	2001-06-13T14:35:59			
Read mode	TIMED	TIMED			

2.3 Aspect



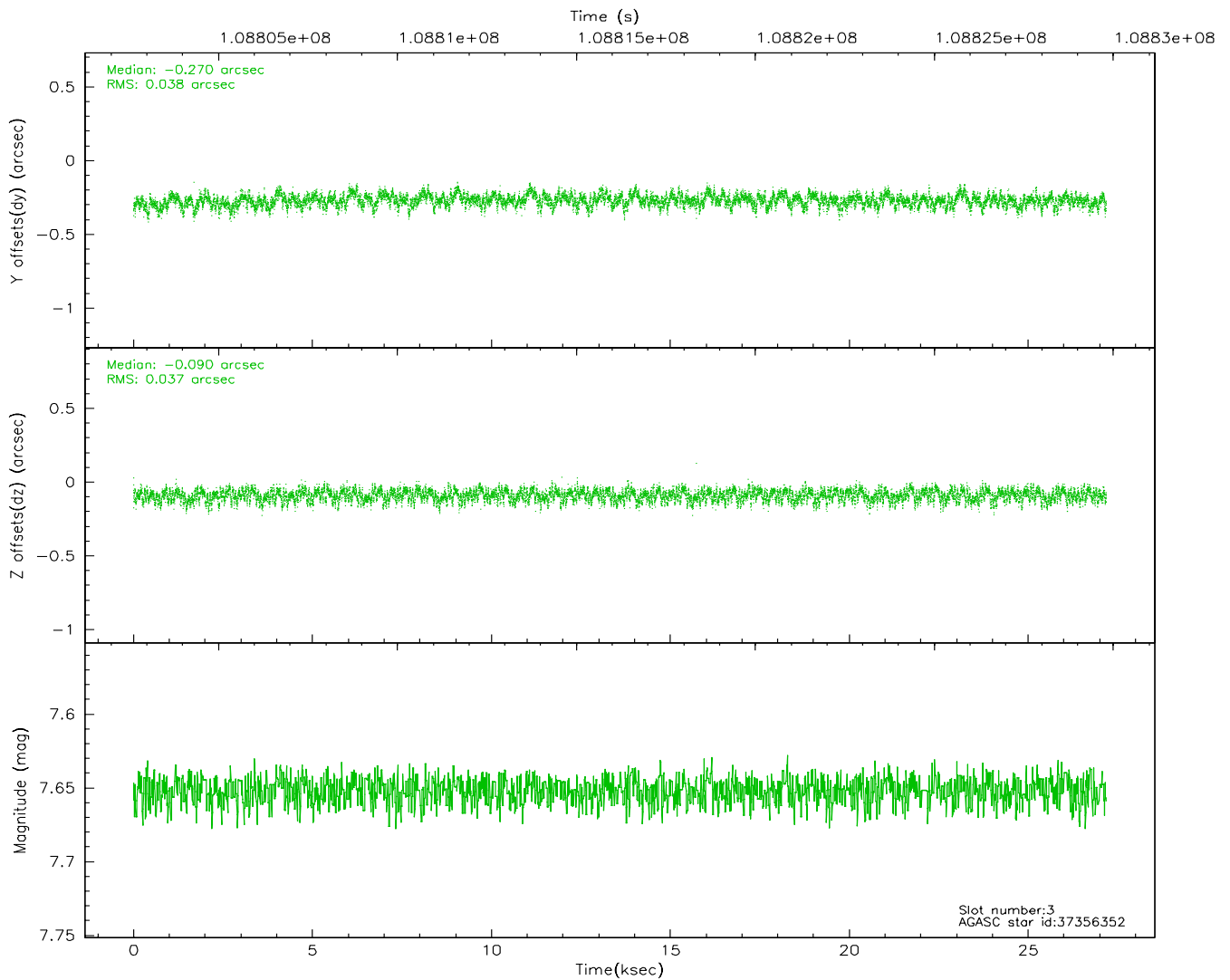
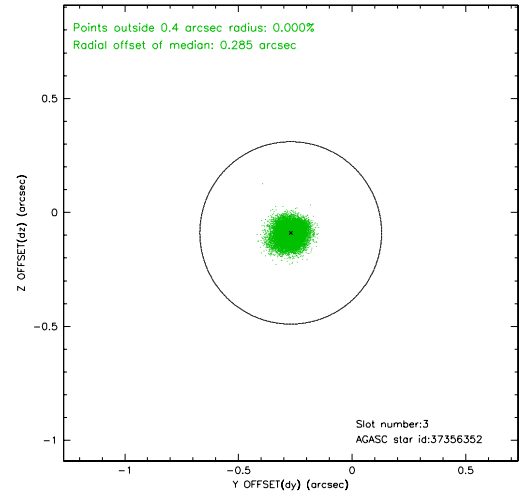
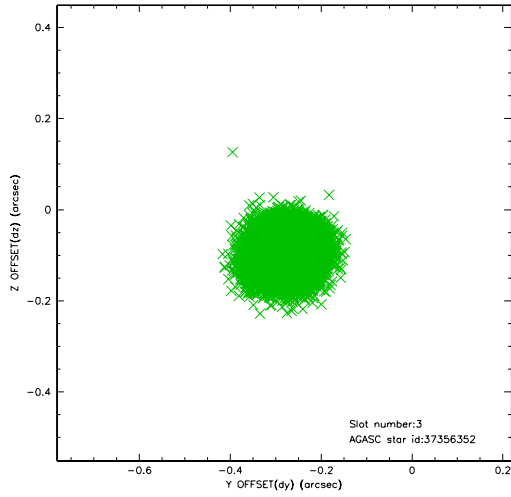


Slot Statistics

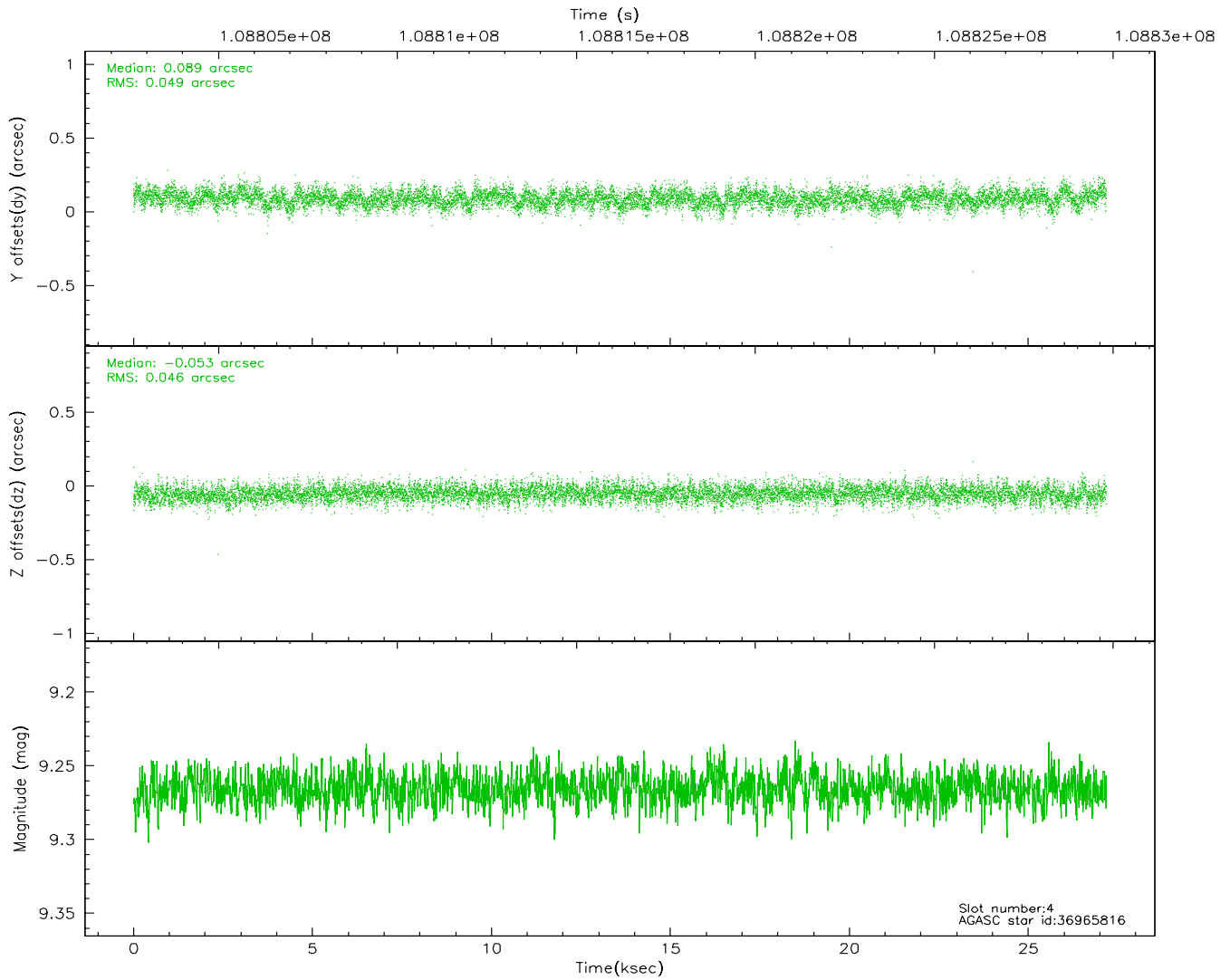
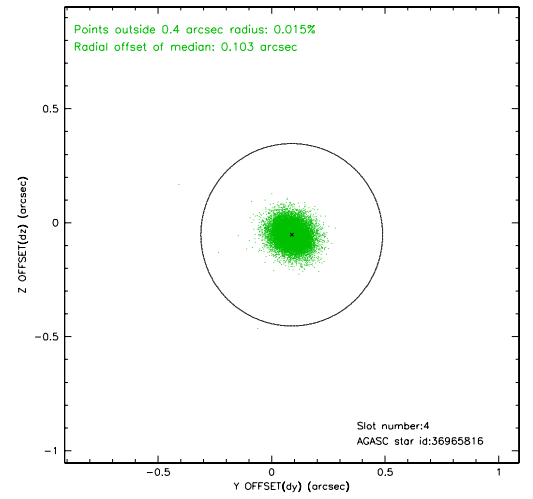
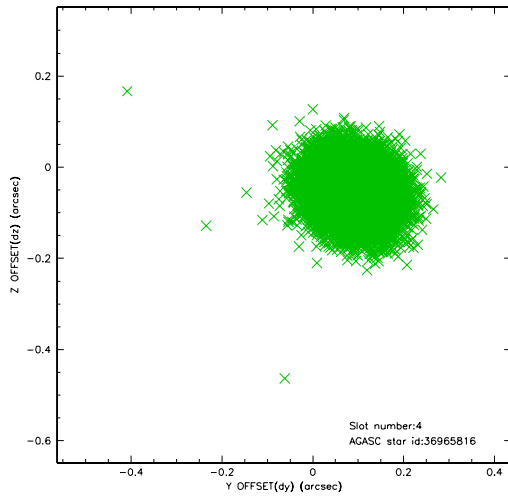
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	6631	-0.003	-0.024	0.008	0.021	0.000000	0.000000	-755.24	-1789.26
1	FID	ACIS-S-4	7.19	6631	-0.076	0.008	0.008	0.028	0.000000	0.000000	2157.94	119.11
2	FID	ACIS-S-5	7.23	6631	0.047	0.025	0.008	0.015	0.000000	0.000000	-1807.89	112.95
3	GUIDE	37356352	7.65	13263	-0.270	-0.090	0.056	0.091	187.433784	2.618460	-1998.55	-276.37
4	GUIDE	36965816	9.27	13250	0.089	-0.053	0.071	0.116	186.823353	1.771455	1686.41	-1012.95
5	GUIDE	36965296	9.09	13255	0.081	-0.056	0.063	0.104	186.926292	1.837429	1317.17	-774.14
6	GUIDE	37880408	10.08	13259	-0.242	0.026	0.130	0.209	187.758191	2.290324	-1406.61	1275.00
7	GUIDE	37883040	10.02	13250	0.340	0.173	0.126	0.207	187.575516	1.280402	2175.27	2183.37

2.4 Star Slots

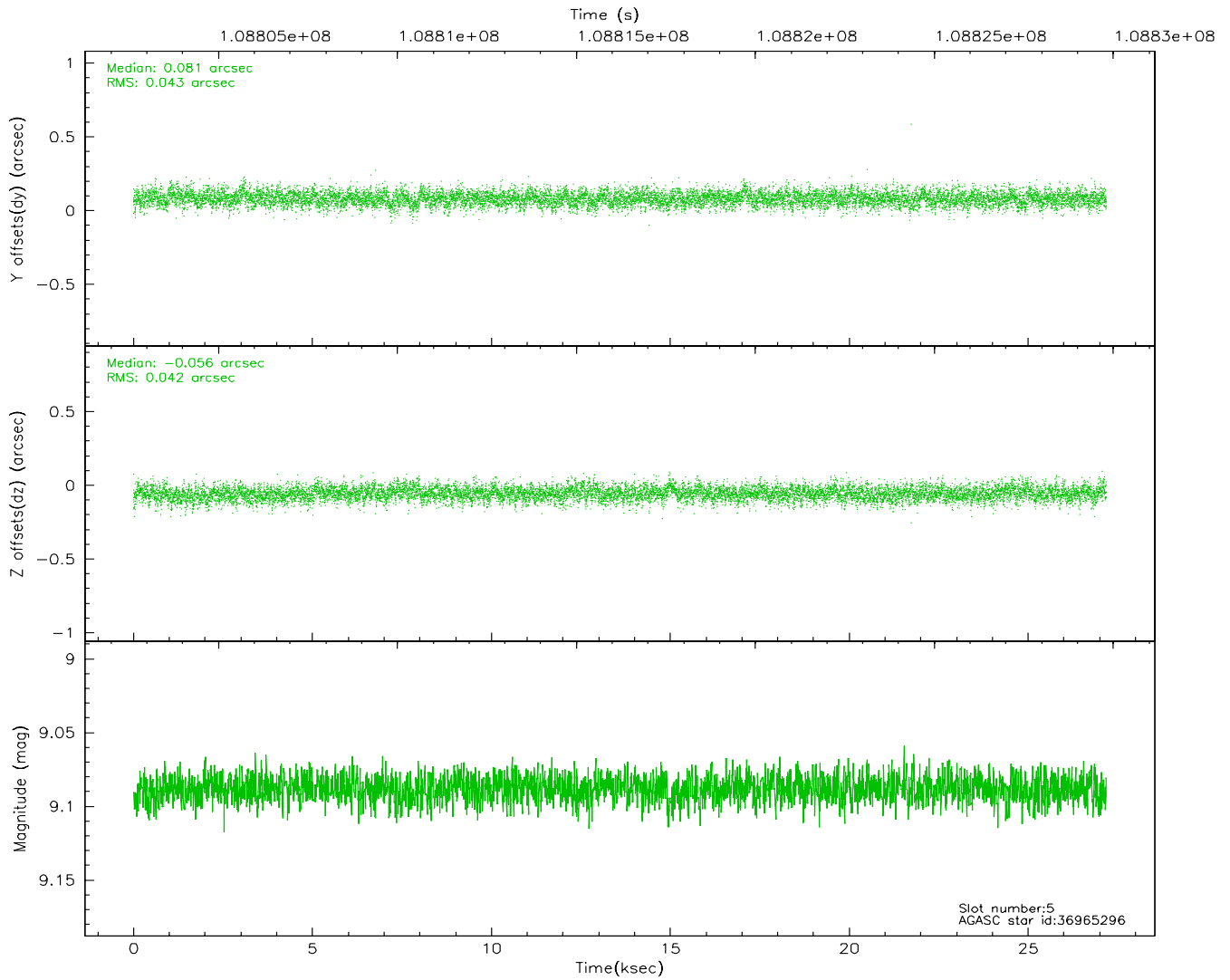
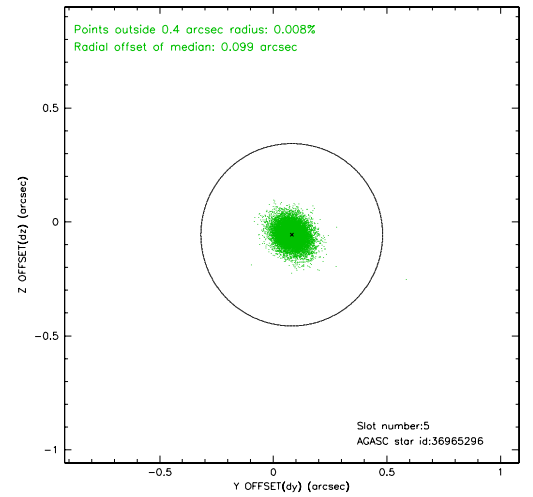
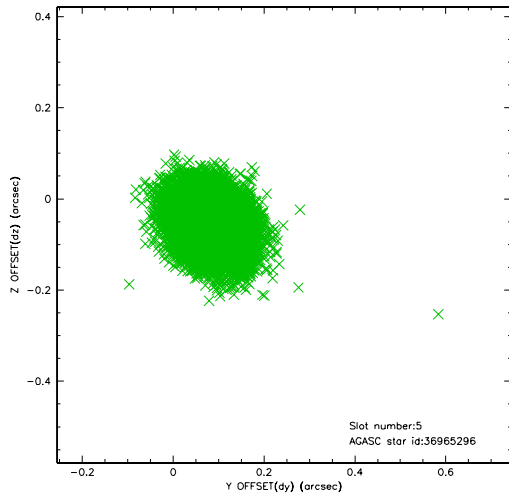
2.4.1 Slot 3



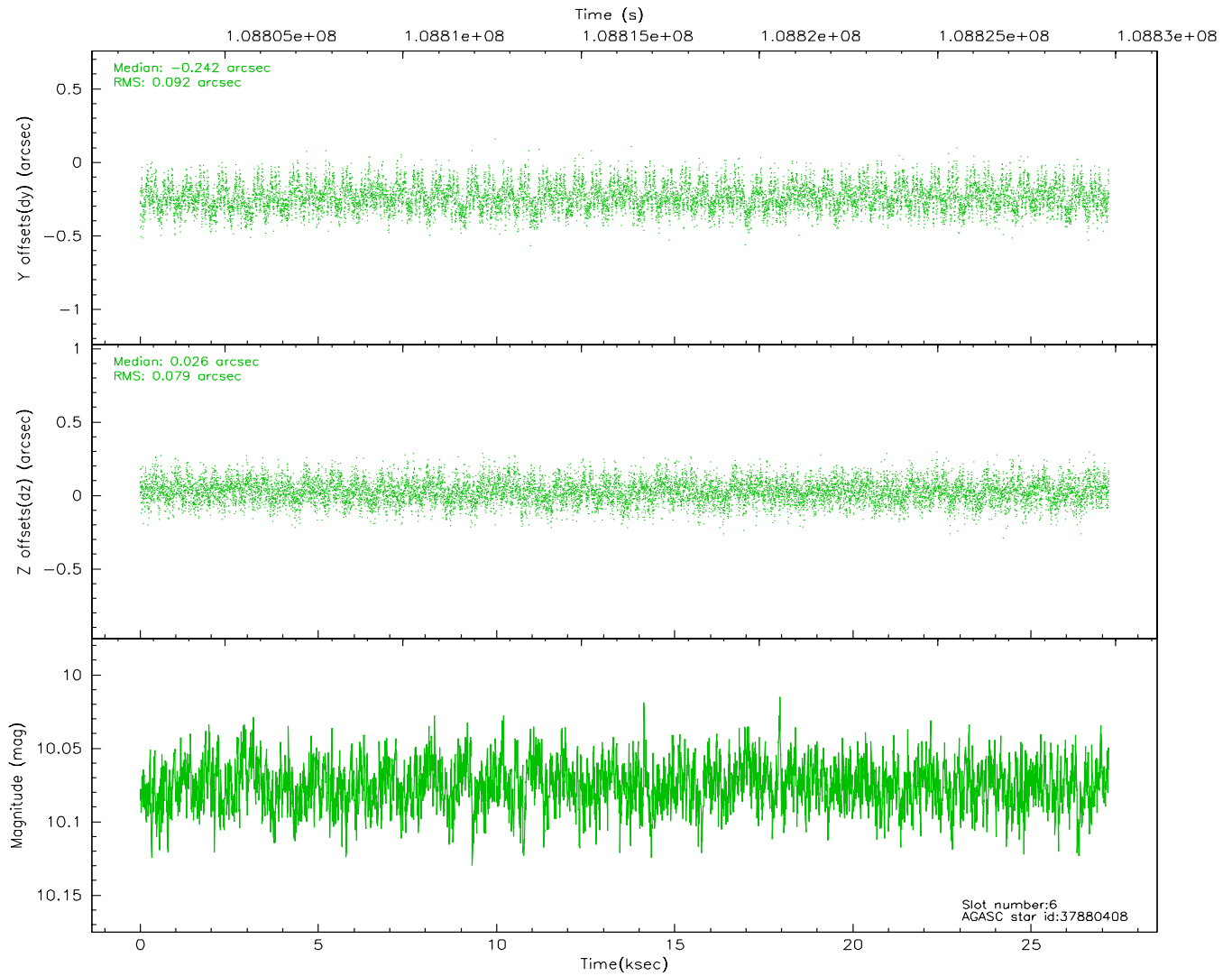
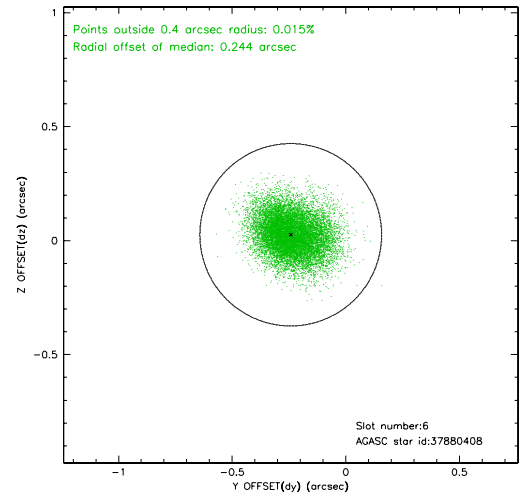
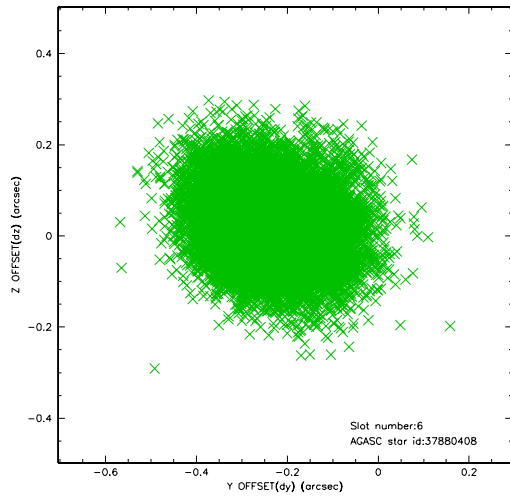
2.4.2 Slot 4



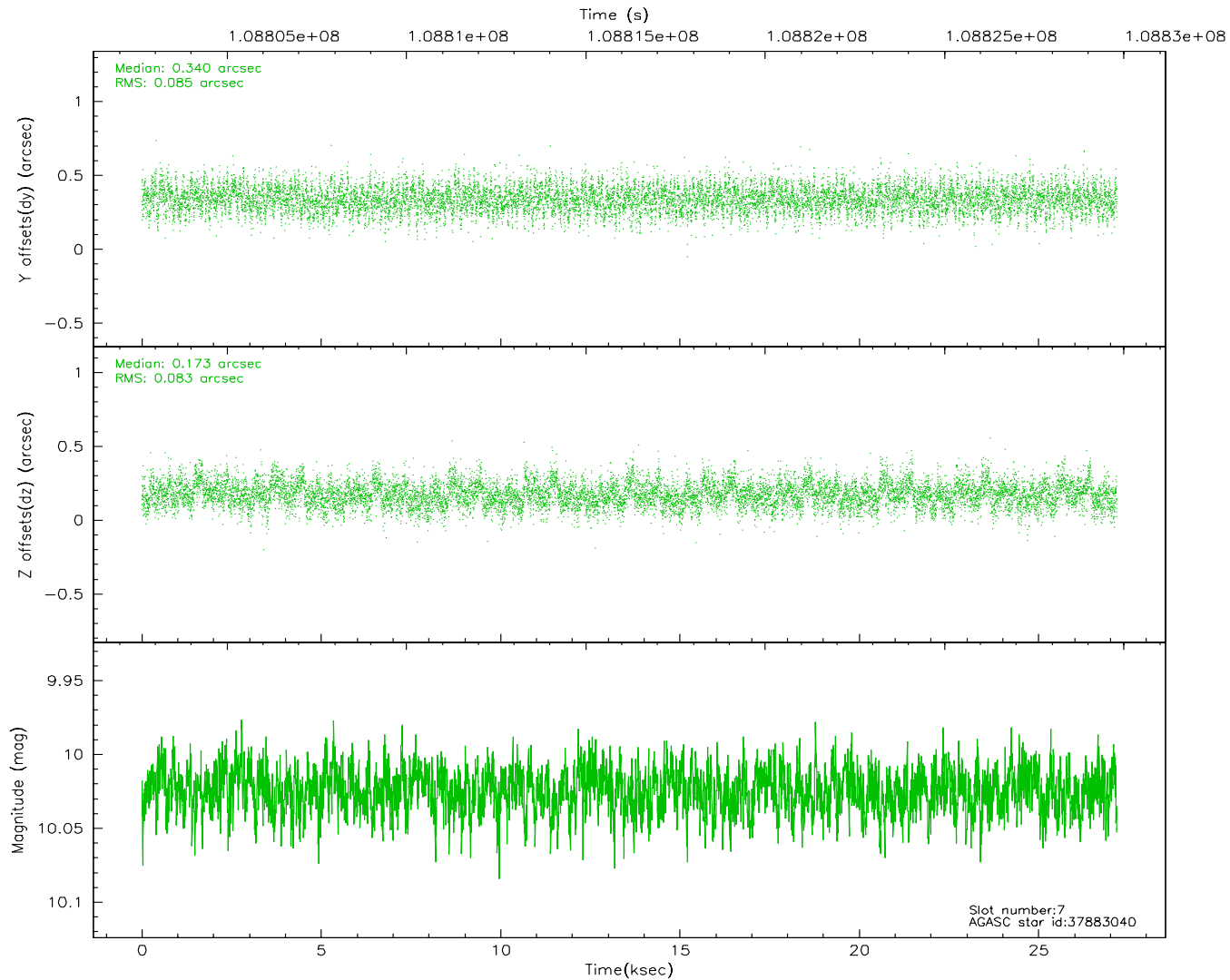
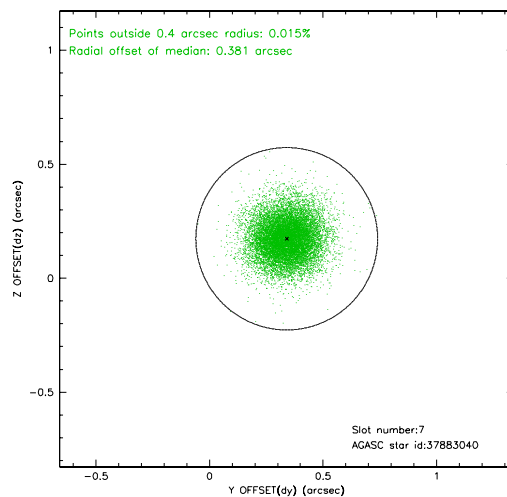
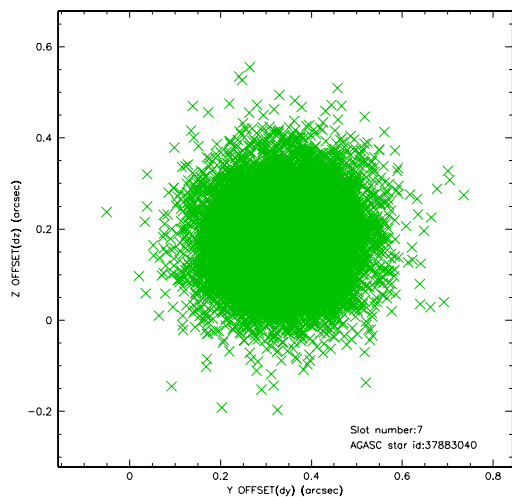
2.4.3 Slot 5



2.4.4 Slot 6

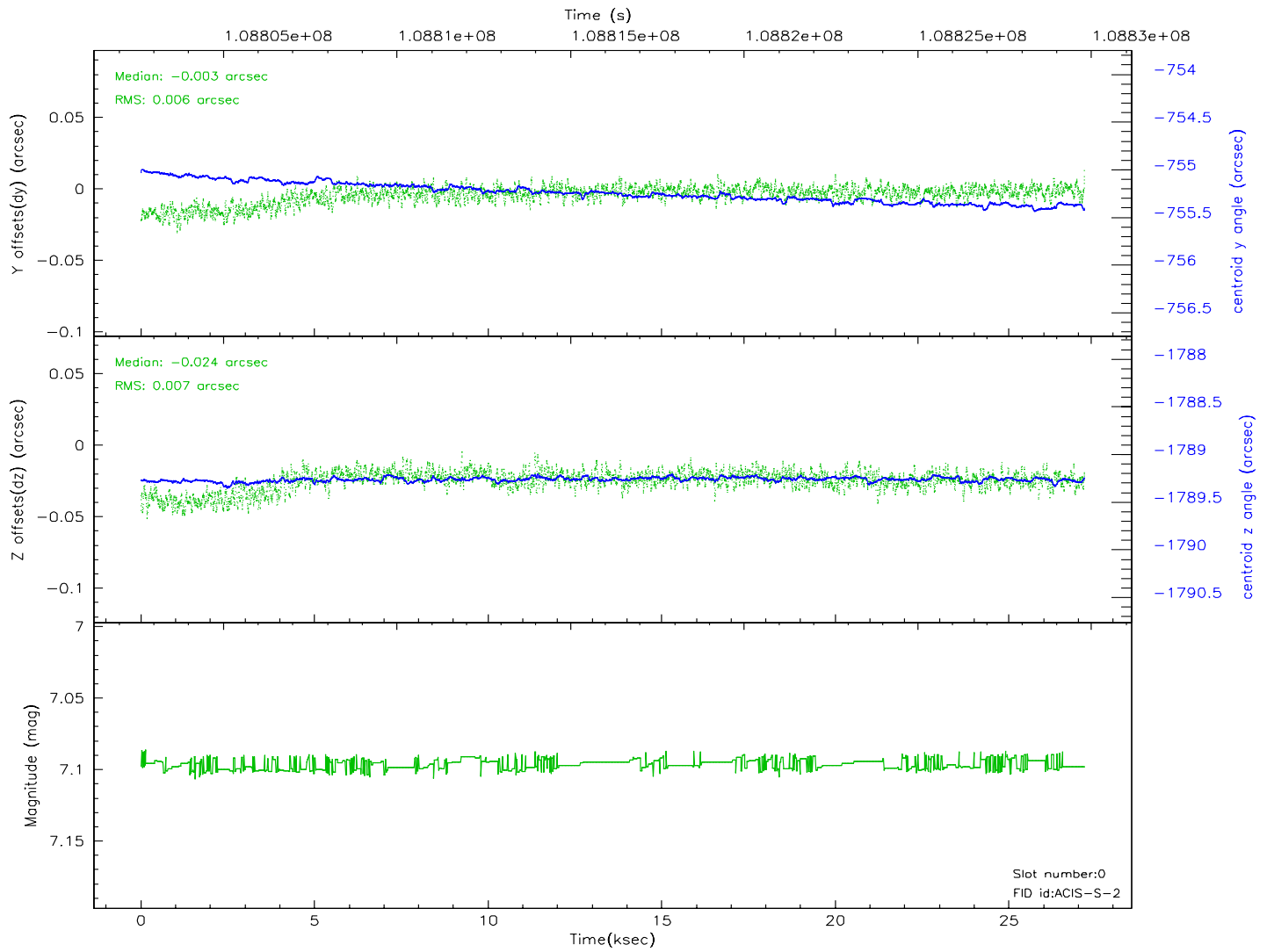
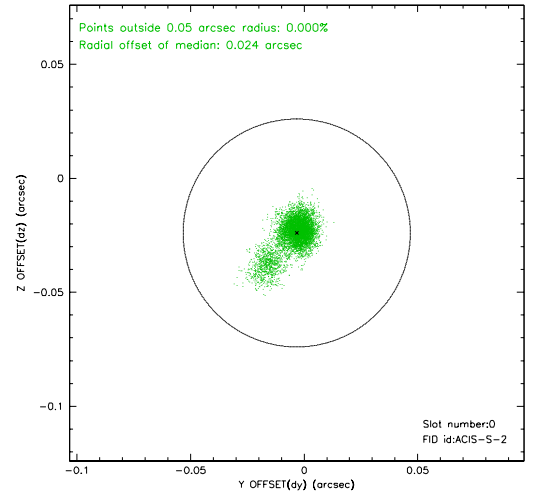
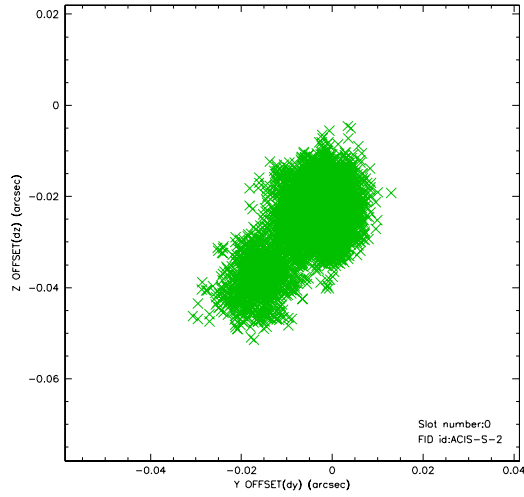


2.4.5 Slot 7

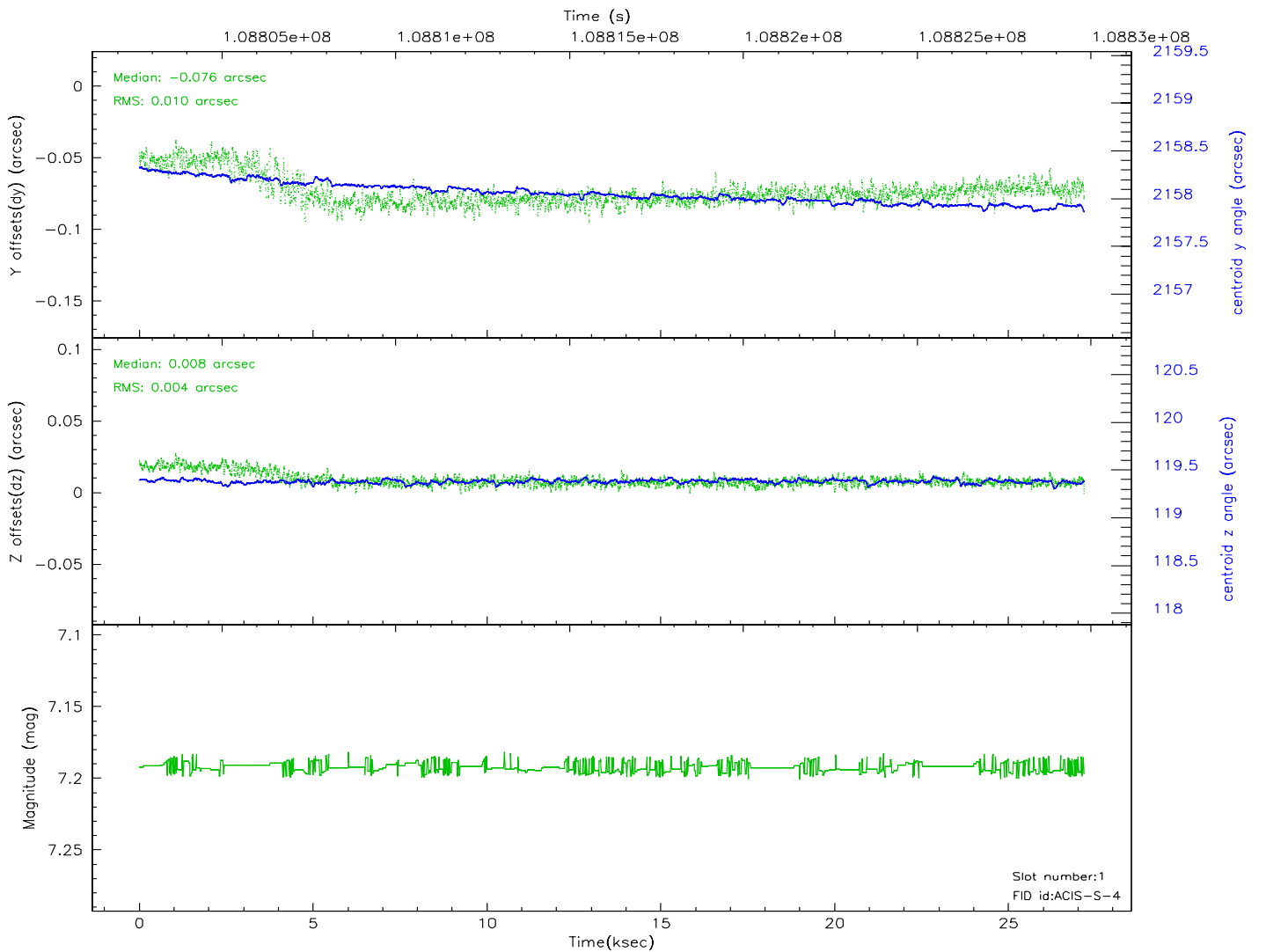
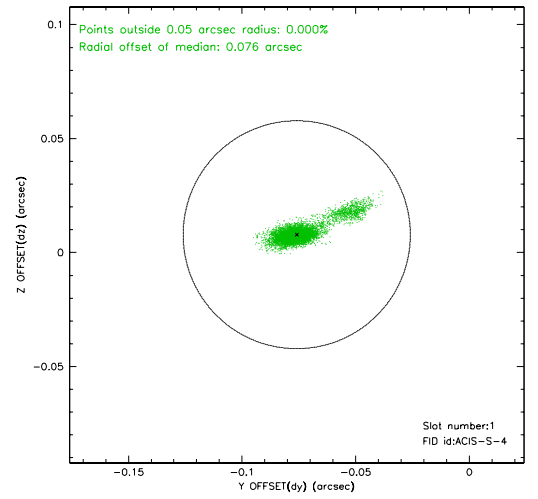
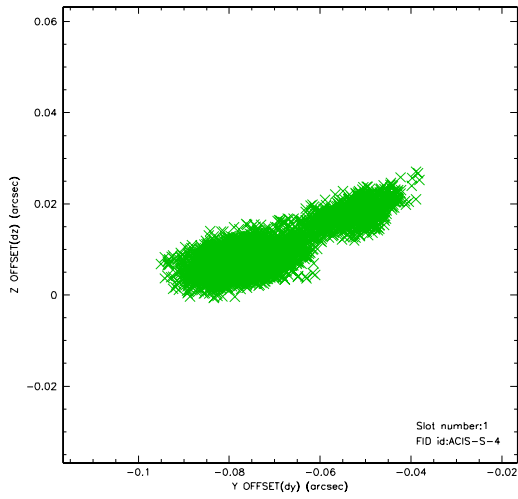


2.5 FID Slots

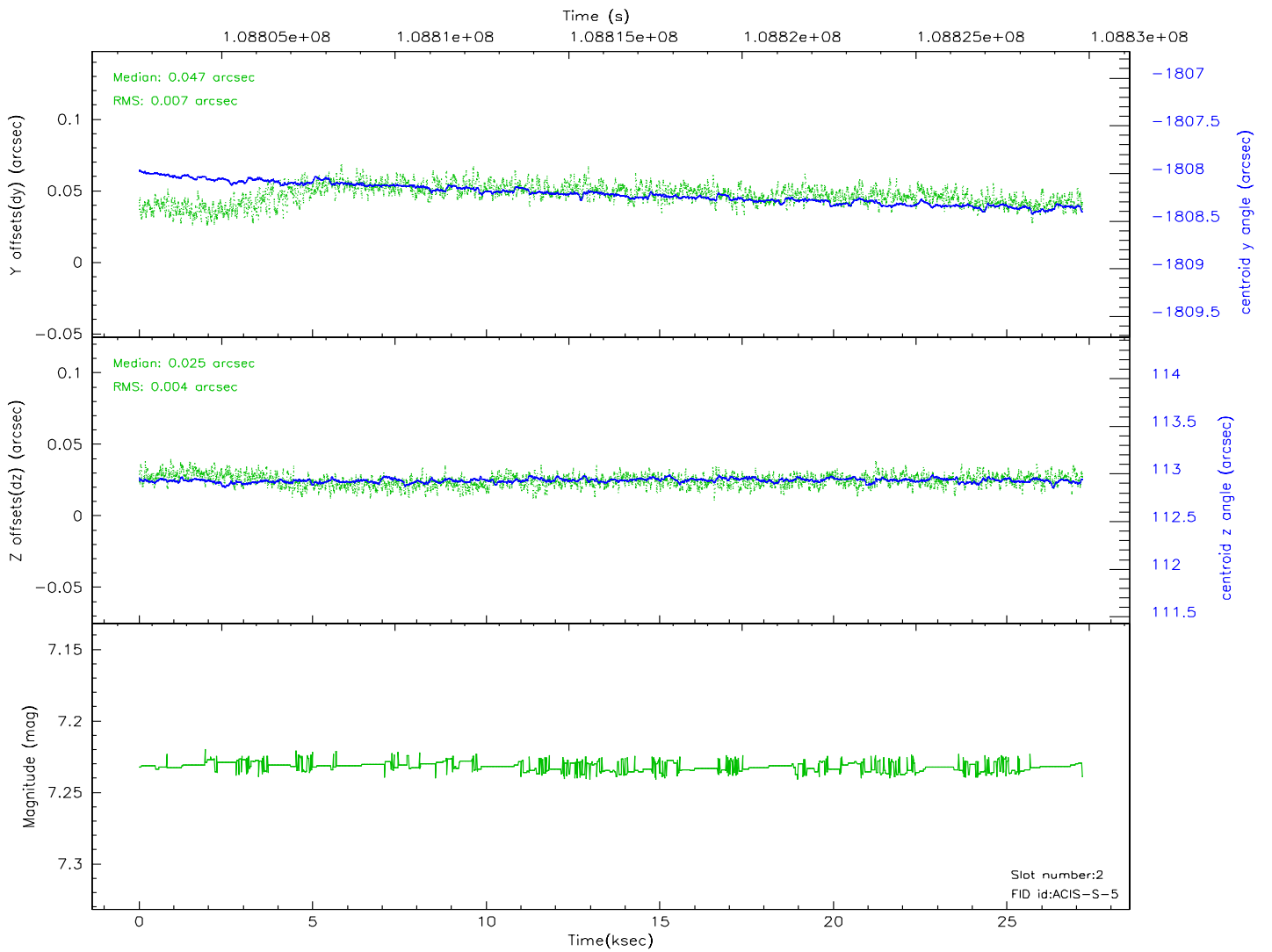
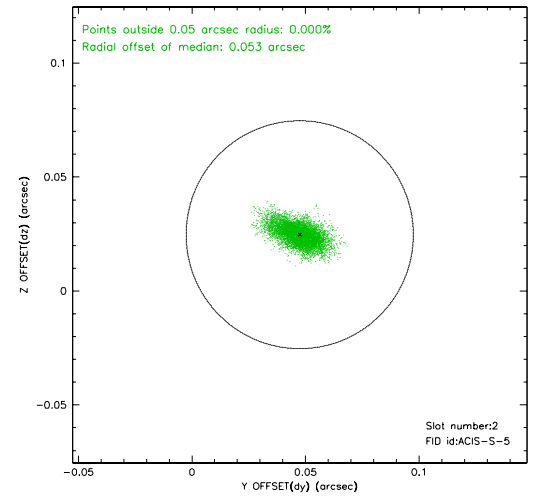
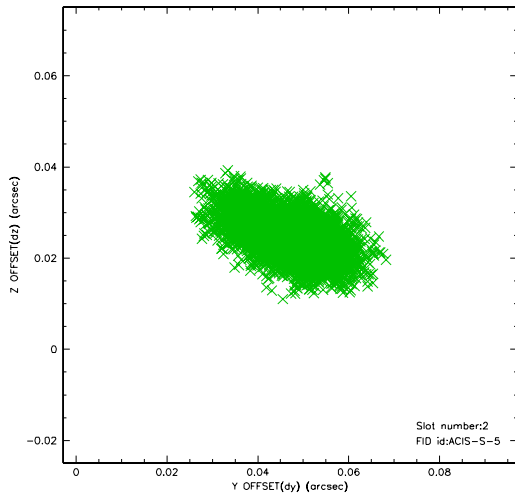
2.5.1 Slot 0



2.5.2 Slot 1

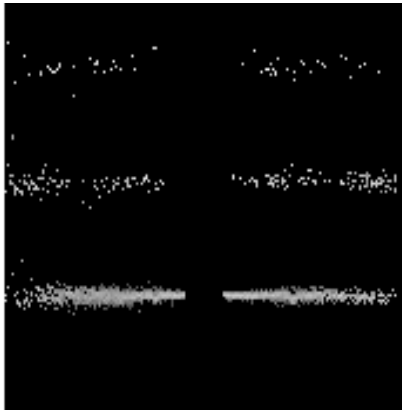


2.5.3 Slot 2

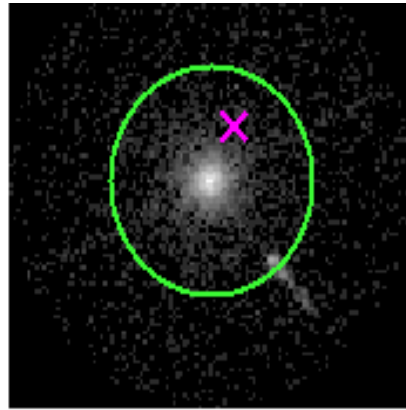


3 Gratings

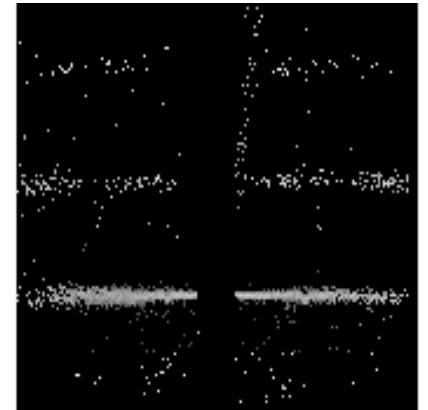
3.1 HEG Arm



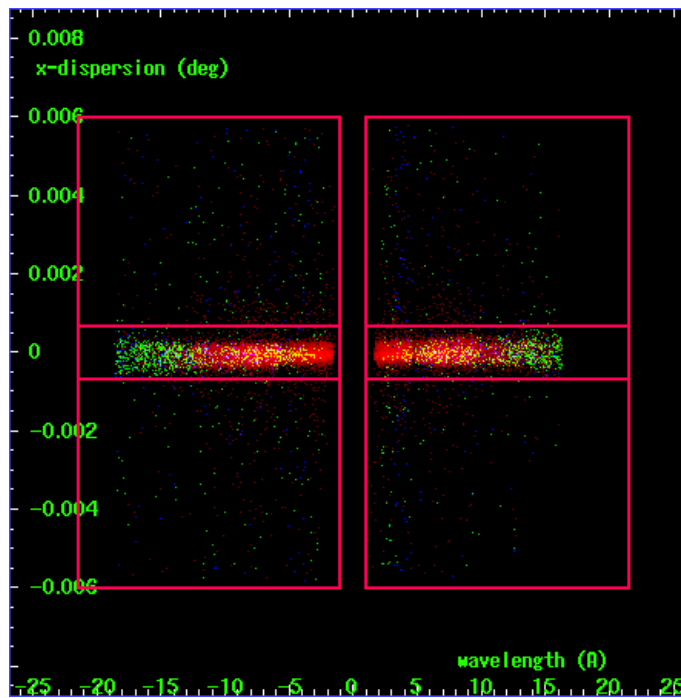
HEG Order Sort 123



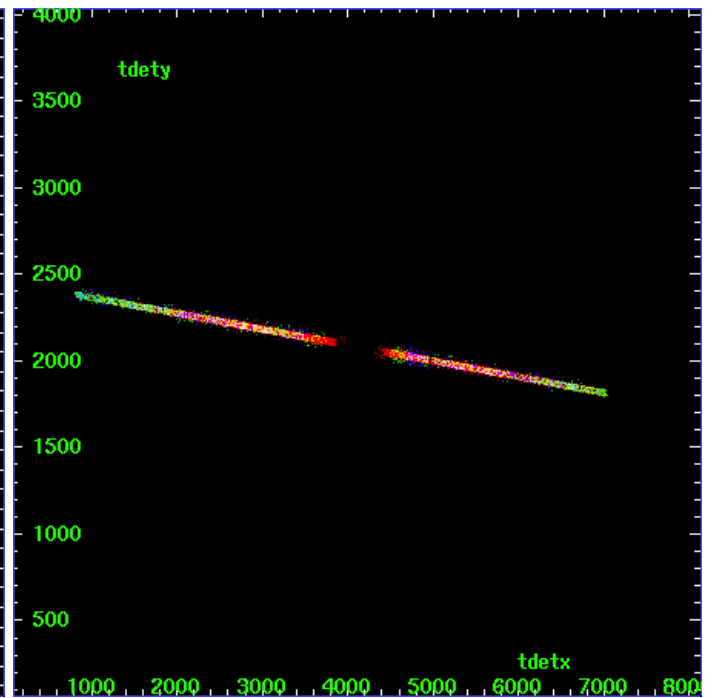
HEG Zero Order



HEG Order Sort ALL

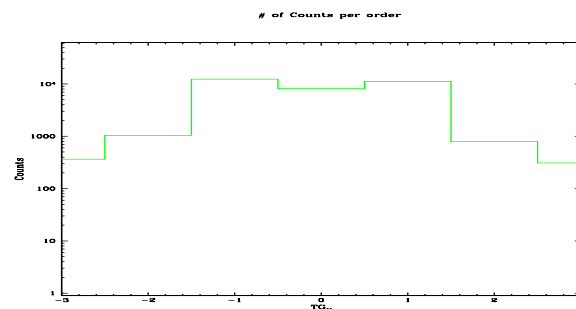


Spot Image HEG

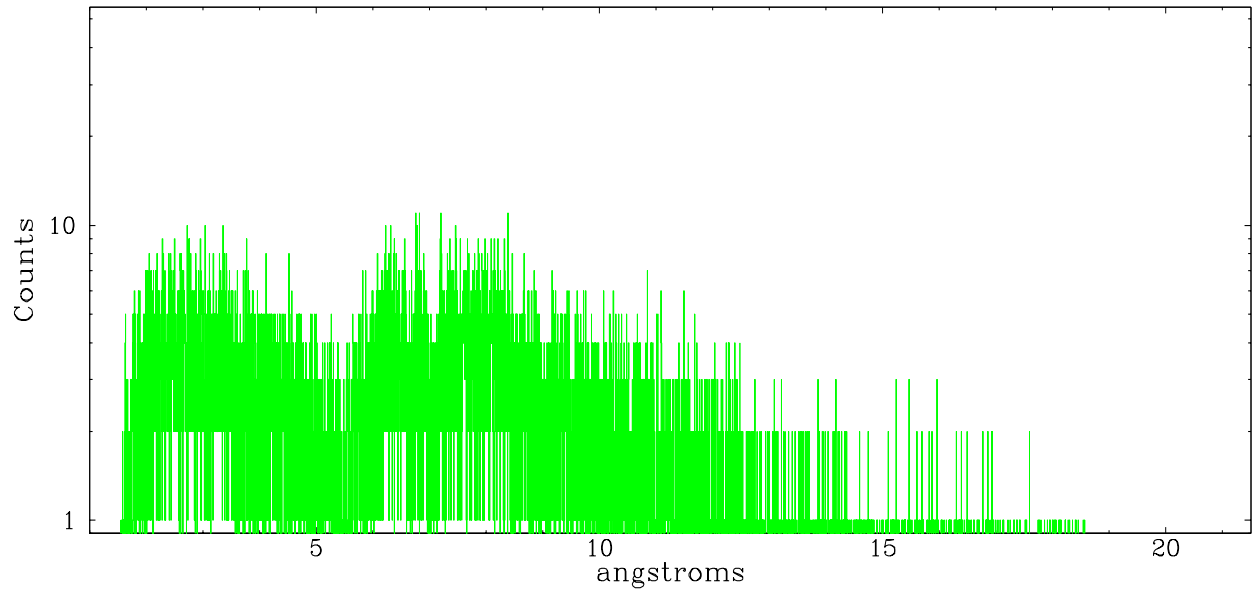


Full Detector HEG

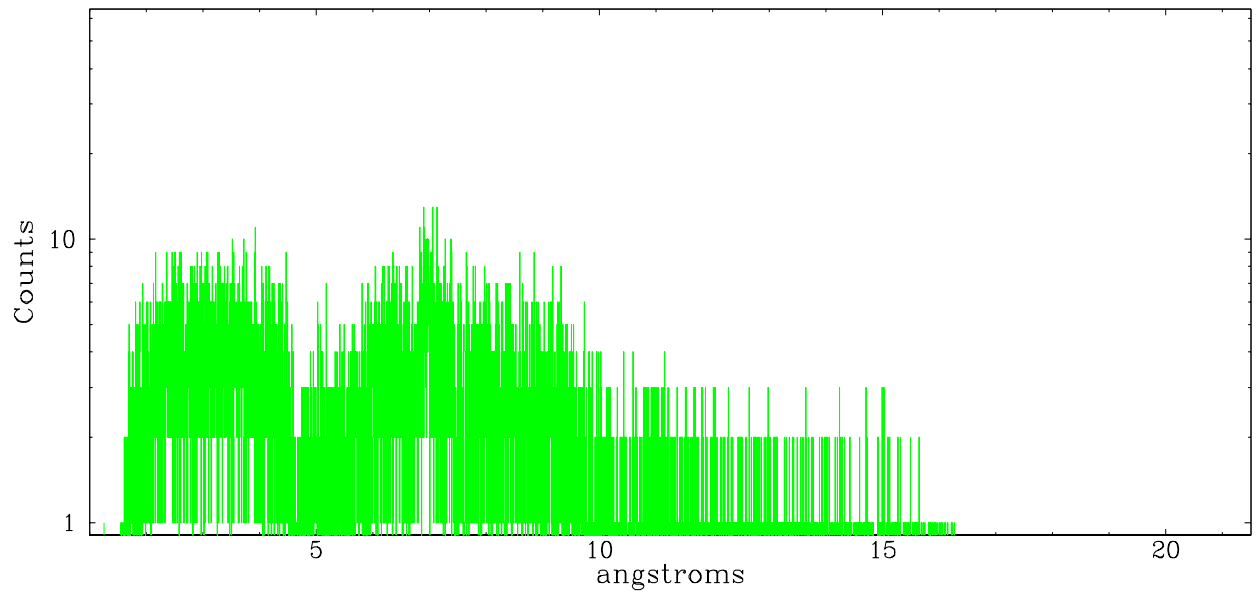
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	365	1040	12333	8109	11234	787	309



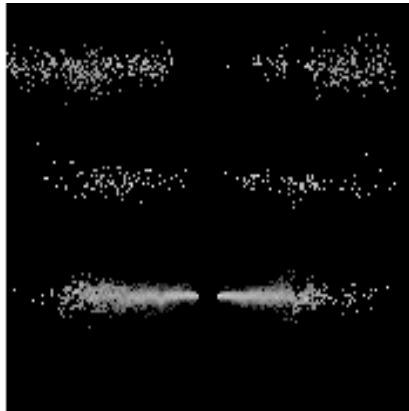
heg order -1



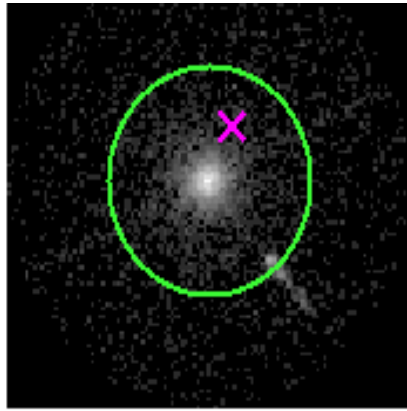
heg order +1



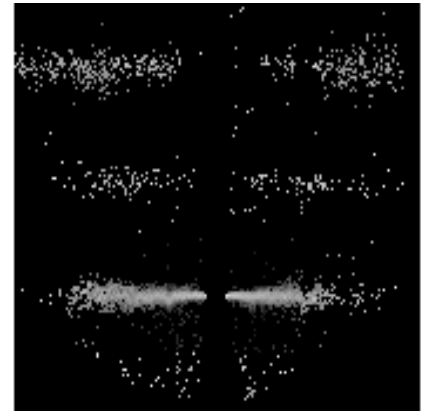
3.2 MEG Arm



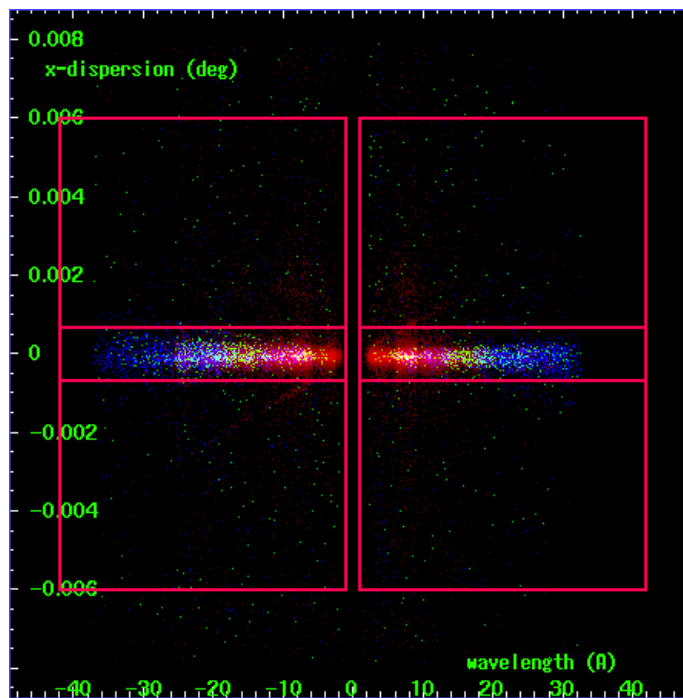
MEG Order Sort 123



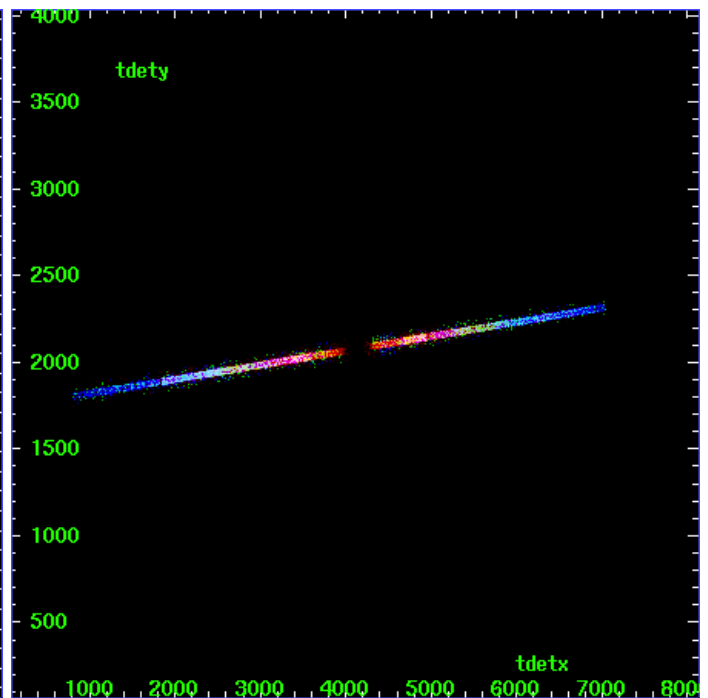
MEG Zero Order



MEG Order Sort ALL

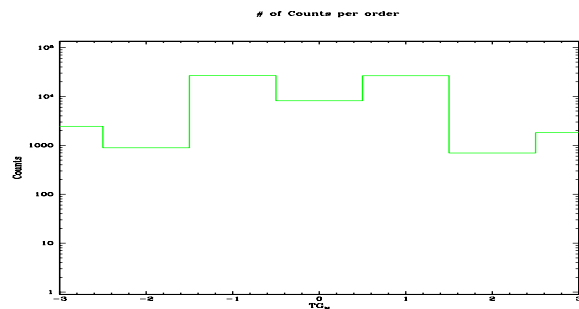


Spot Image MEG

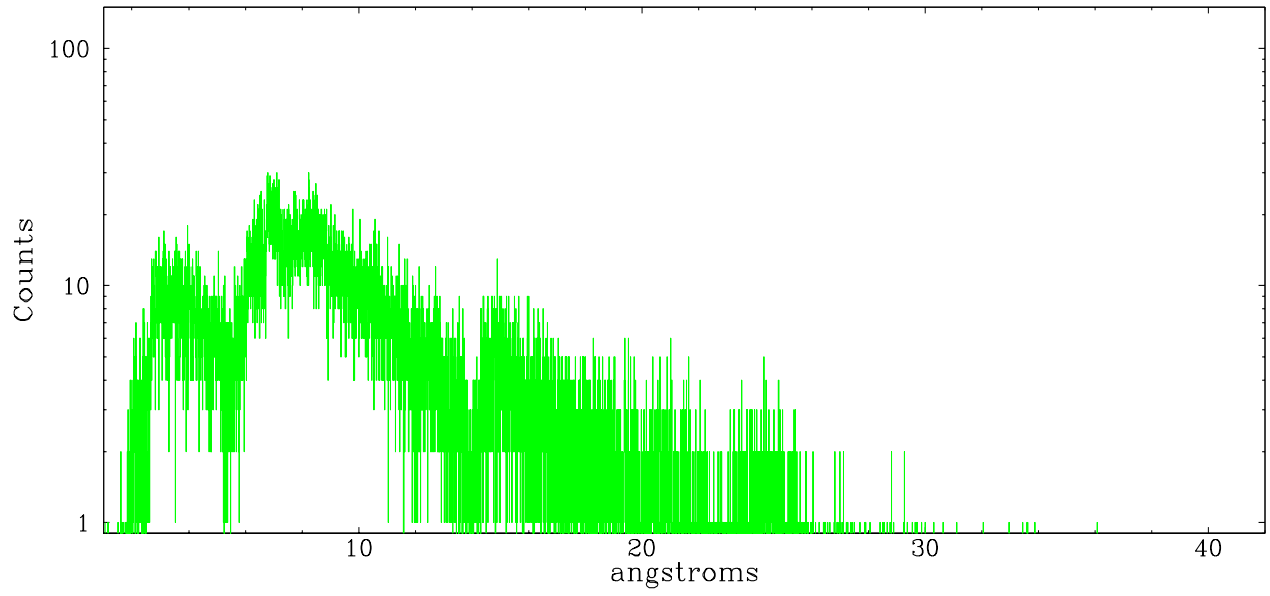


Full Detector MEG

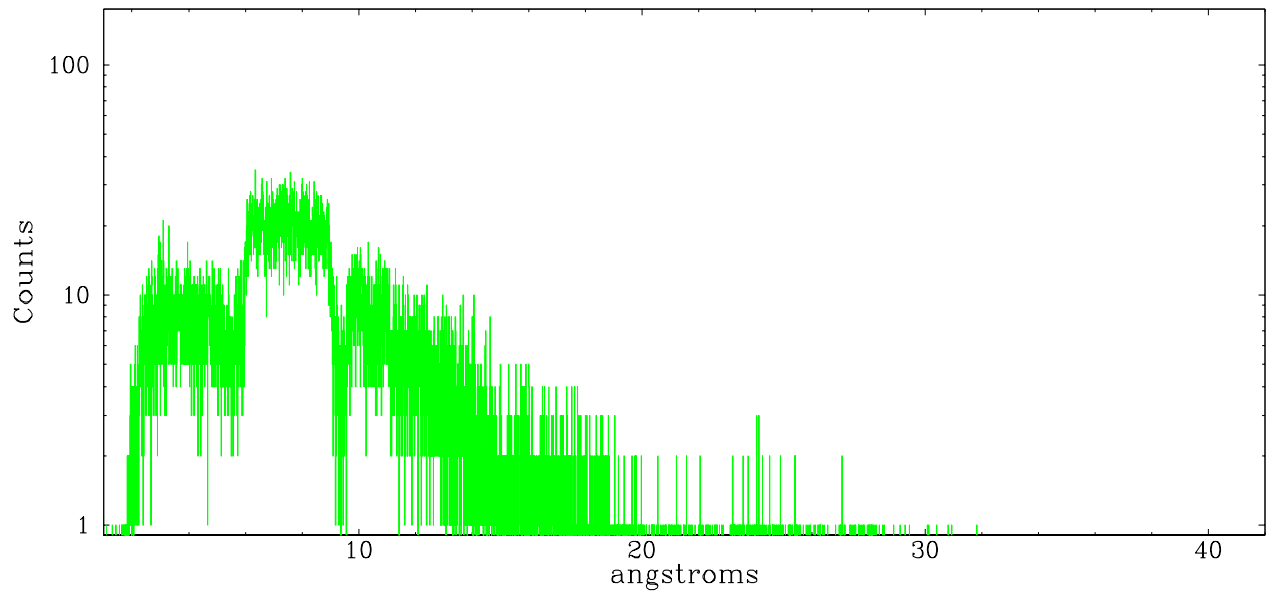
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	2433	886	26765	8109	26533	696	1807



meg order -1



meg order +1



A Summary

A.1 Status

V&V Scientist	David Huenemoerder
V&V Date (YYYY-MM-DD)	2006.11.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	27.125

A.2 Comments