

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 2388 - L2 Version 3
Chandra X-Ray Center

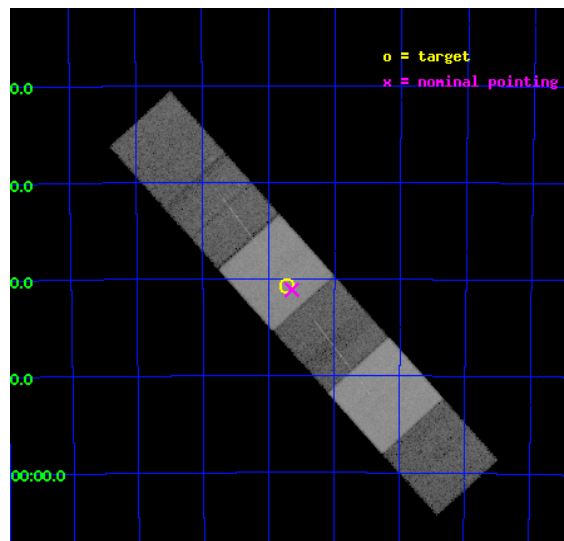
L2 Processing Date : Sep 24 2012

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.5	FID Slots	13
2.5.1	Slot 0	13
2.5.2	Slot 1	14
2.5.3	Slot 2	15
3	Gratings	16
3.1	HEG Arm	16
3.2	MEG Arm	18
A	Summary	20
A.1	Status	20
A.2	Comments	20

1 Front

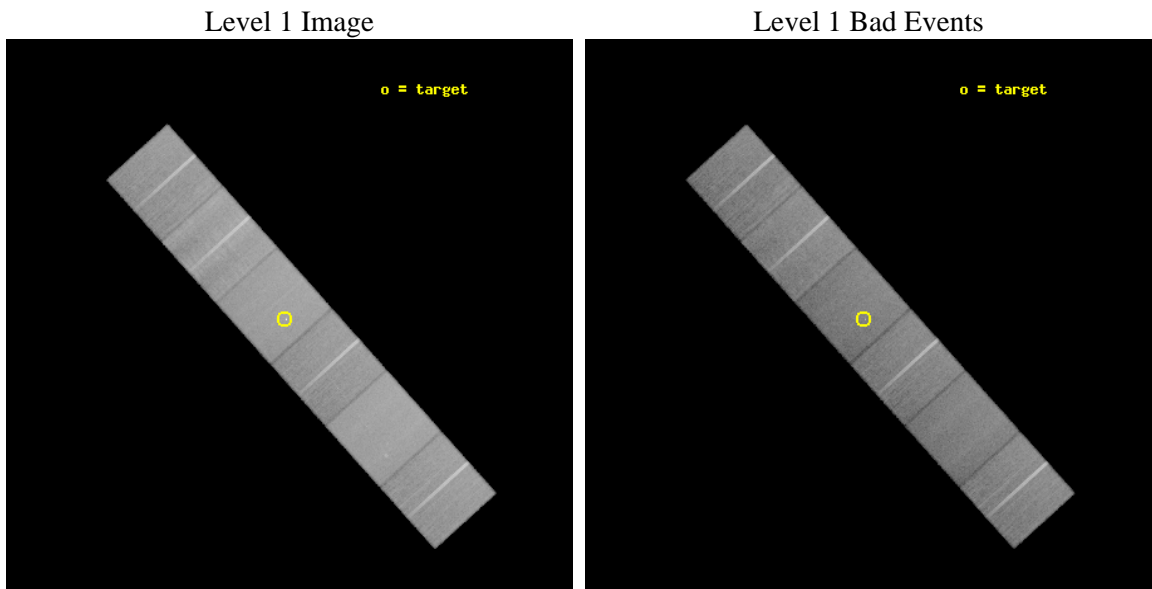
seq_num	200126	Sequence number
obs_id	2388	Observation id
title	COORDINATED AXAF AND HST SPECTROSCOPY OF FLARES ON PROXIMA CENTAURI	
observer	Dr. Jeffrey Linsky	Principal investigator
object	PROXIMA CENTAURI	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	217.42875	Observer's specified target RA [deg]
dec_targ	-62.679472	Observer's specified target Dec [deg]
ra_nom	217.41187435643	Nominal RA [deg]
dec_nom	-62.685472013524	Nominal Dec [deg]
roll_nom	227.97871070156	Nominal Roll [deg]
revision	3	Processing version of data
ontime	42937.600039974	Sum of GTIs [s]
livetime	42393.898294349	Livetime [s]
ontime4	42937.600039974	Sum of GTIs [s]
ontime5	42937.600039974	Sum of GTIs [s]
ontime6	42934.359049812	Sum of GTIs [s]
ontime7	42937.600039974	Sum of GTIs [s]
ontime8	42931.118119463	Sum of GTIs [s]
ontime9	42937.600039974	Sum of GTIs [s]
l2events	434352	Number of level 2 events



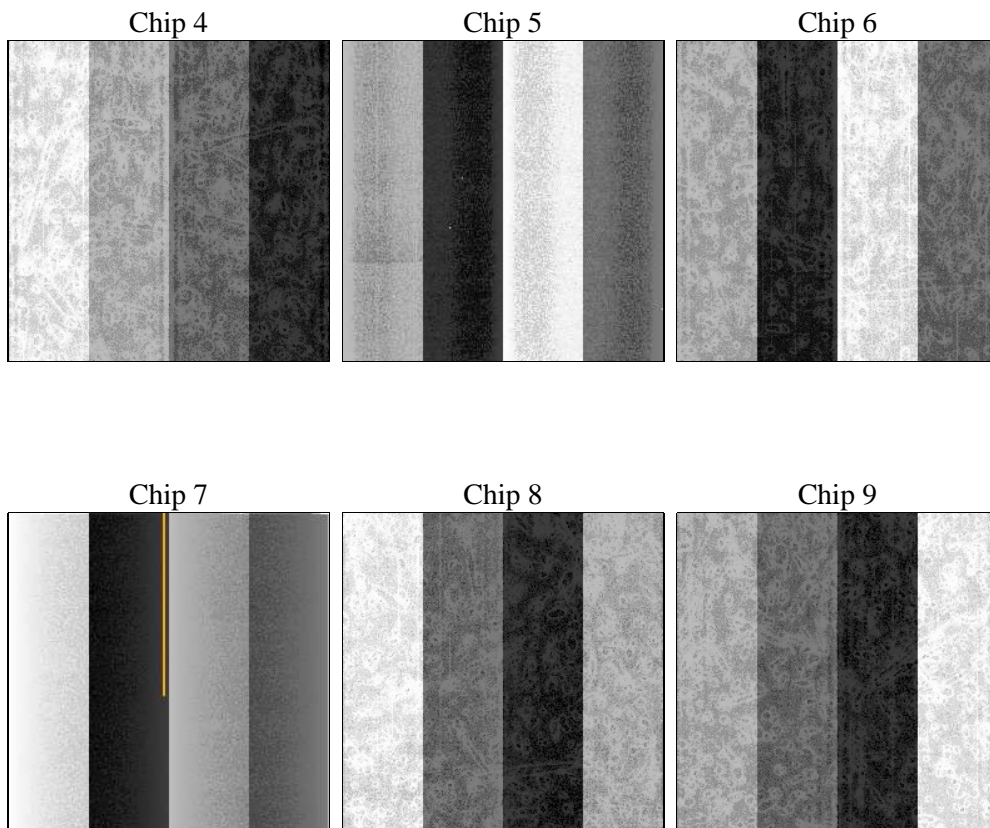
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	43000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	42937.600039974	Sum of GTIs [s]
caldbver	4.5.1.1	 	ontime4	42937.600039974	Sum of GTIs [s]
date	2012-09-24T09:12:16	Date and time of file creation	ontime5	42937.600039974	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	42934.359049812	Sum of GTIs [s]
			ontime7	42937.600039974	Sum of GTIs [s]
			ontime8	42931.118119463	Sum of GTIs [s]
			ontime9	42937.600039974	Sum of GTIs [s]
			l1events	2027204	Number of level 1 events

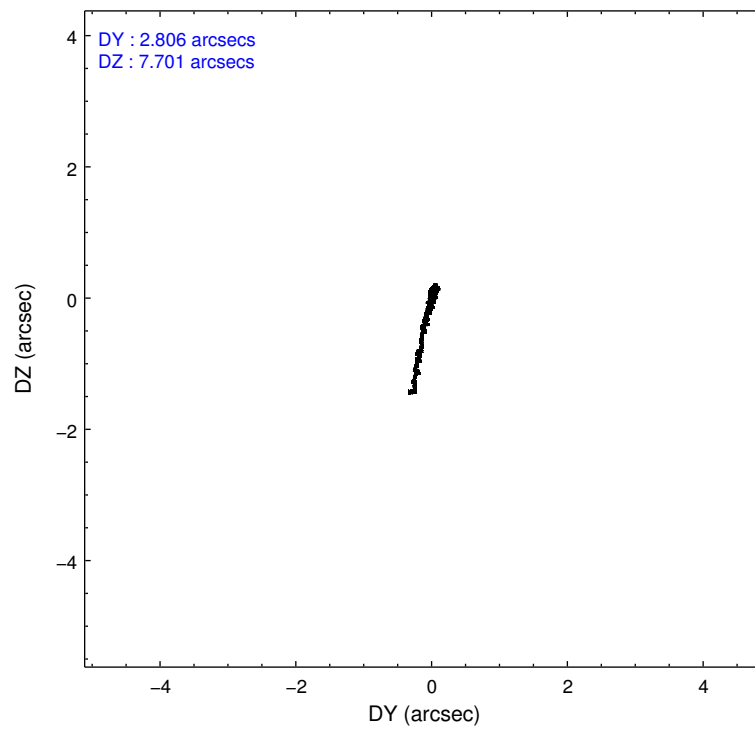
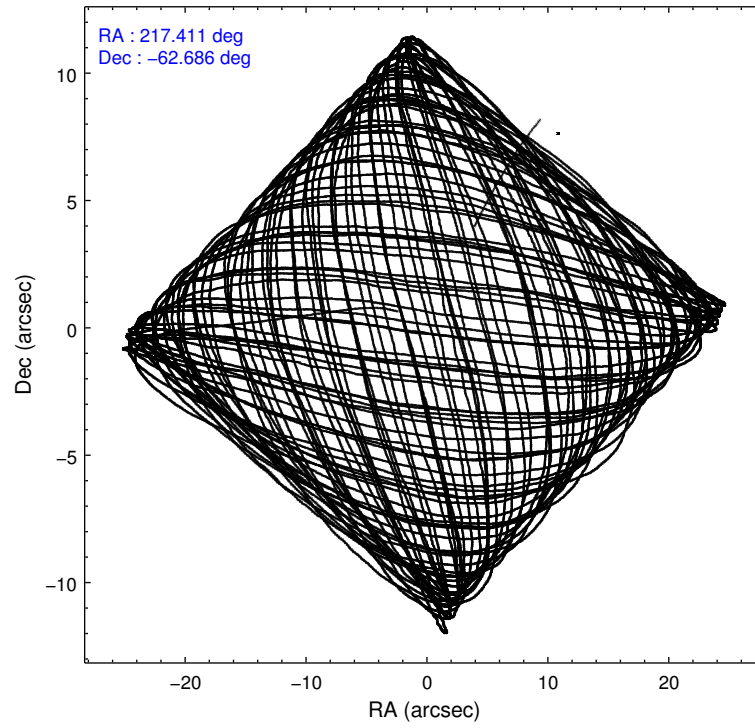
2.1.4 Events

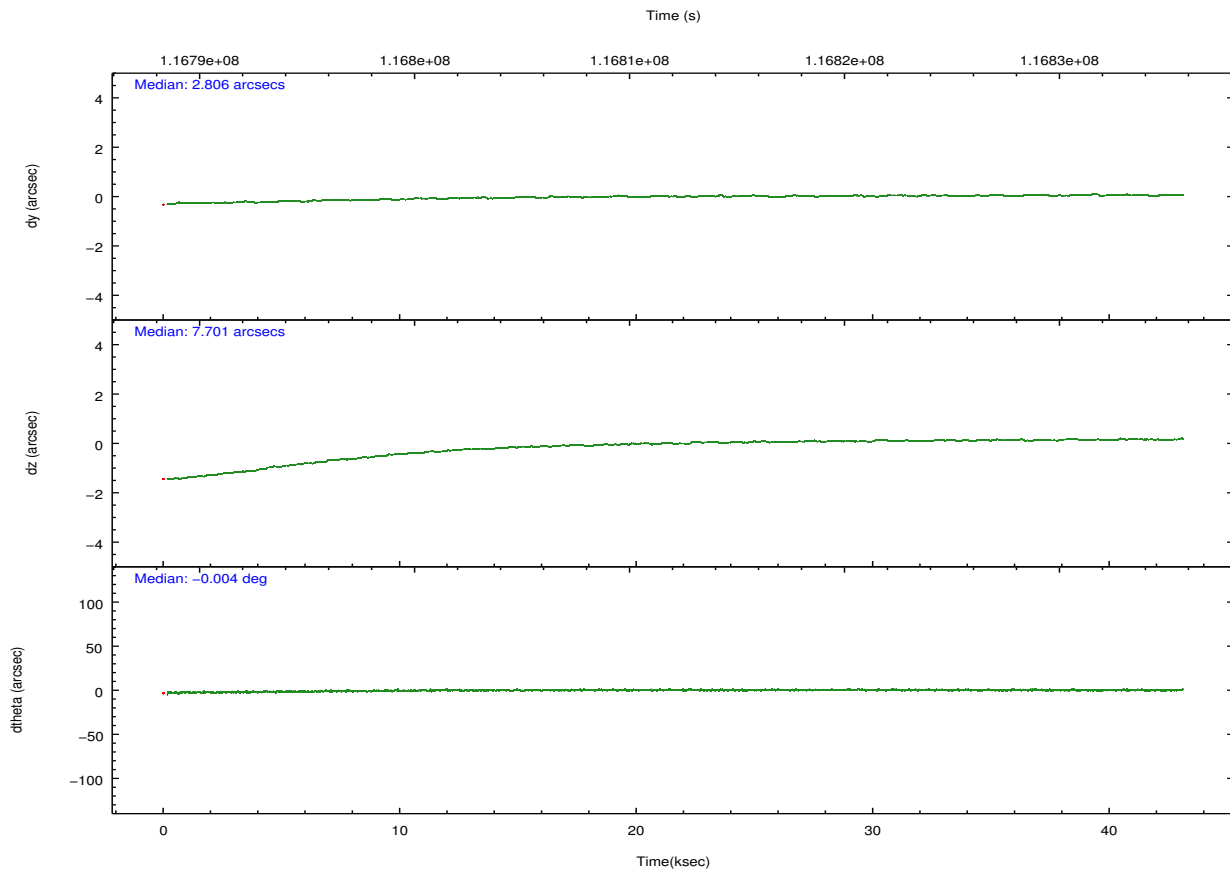
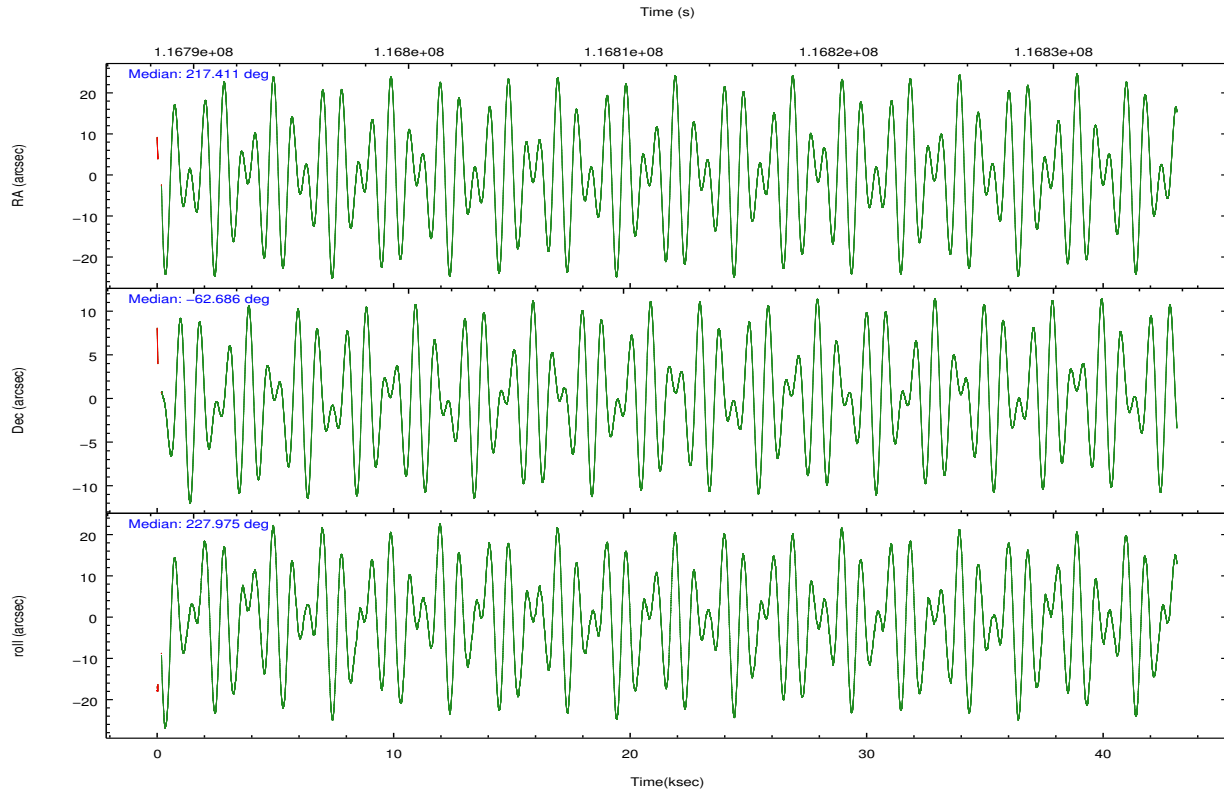
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	319113	388461	291227	361897	383840	282666	grade 0 events	13913	11026	13644	13875	30989	13664
rejected events	282896	217507	257073	212607	291052	247807		4%	2%	4%	3%	8%	4%
rejected %	88%	55%	88%	58%	75%	87%	grade 1 events	161	488	122	404	275	139
								0%	0%	0%	0%	0%	0%
							grade 2 events	9548	51109	7357	29475	17409	7711
								2%	13%	2%	8%	4%	2%
							grade 3 events	3163	7348	3251	13417	12431	3280
								0%	1%	1%	3%	3%	1%
							grade 4 events	3054	6934	3185	13790	11224	3207
								0%	1%	1%	3%	2%	1%
							grade 5 events	9518	28874	11803	34587	15149	12189
								2%	7%	4%	9%	3%	4%
							grade 6 events	6575	94738	6756	78871	20841	7019
								2%	24%	2%	21%	5%	2%
							grade 7 events	273181	187944	245109	177478	275522	235457
								85%	48%	84%	49%	71%	83%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
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
[deg] Pointing RA	217.423594	217.4118743564254	Subarray requested	NONE	NONE
[deg] Pointing Dec	-62.658738	-62.68547201352364	Alternating exposures requested	N	N
[deg] Pointing Roll	227.832503	227.9787107015601	[s] Primary exposure time	0.000000	3.2
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	116790585.184000	116789644.44812			
Observation start date	2001-09-13T17:48:41	2001-09-13T17:34:04			
[s] Observation end time (MET)	116833585.184000	116834231.94988			
Observation end date	2001-09-14T05:45:21	2001-09-14T05:57:11			
Read mode	TIMED	TIMED			

2.3 Aspect



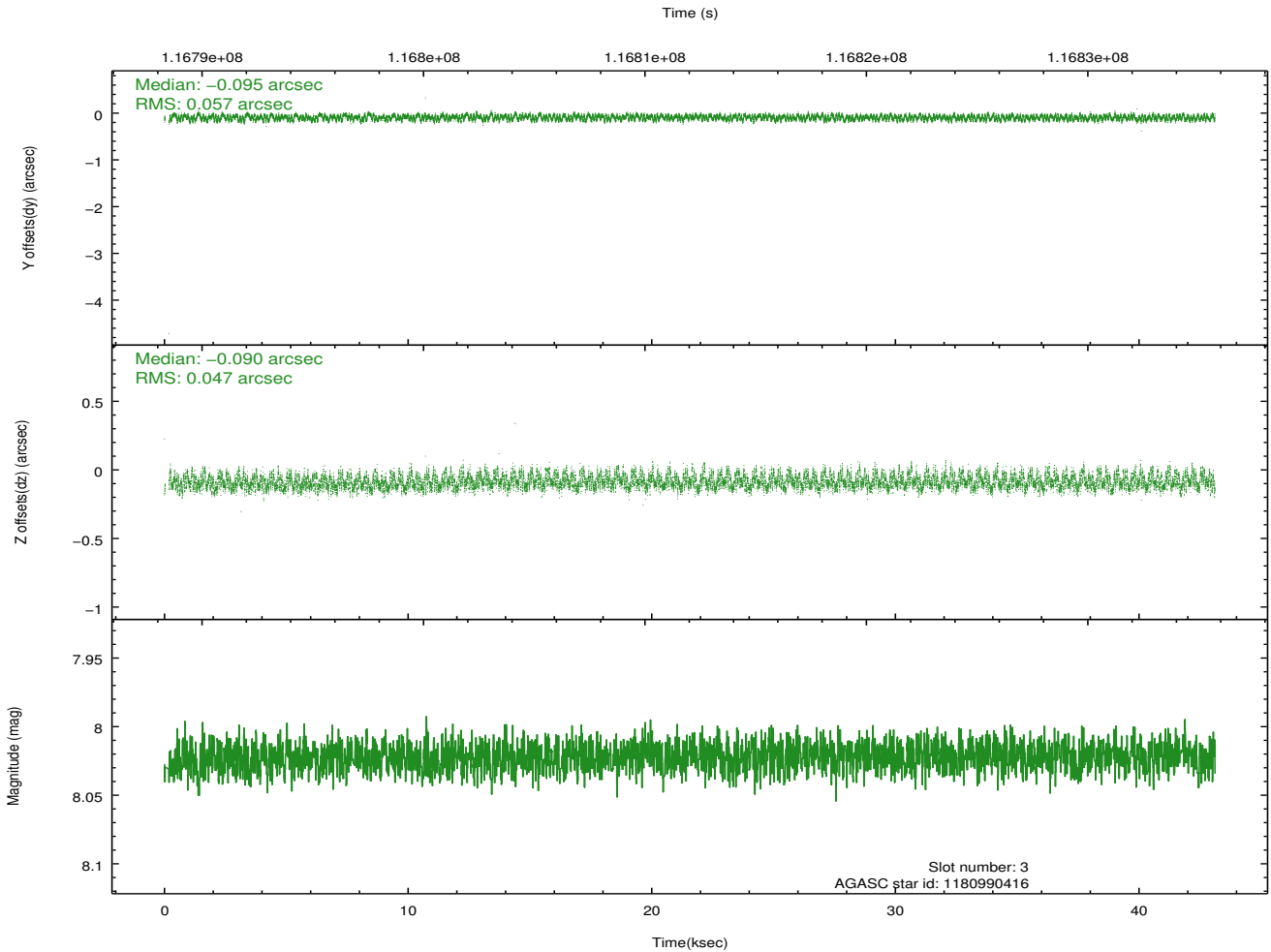
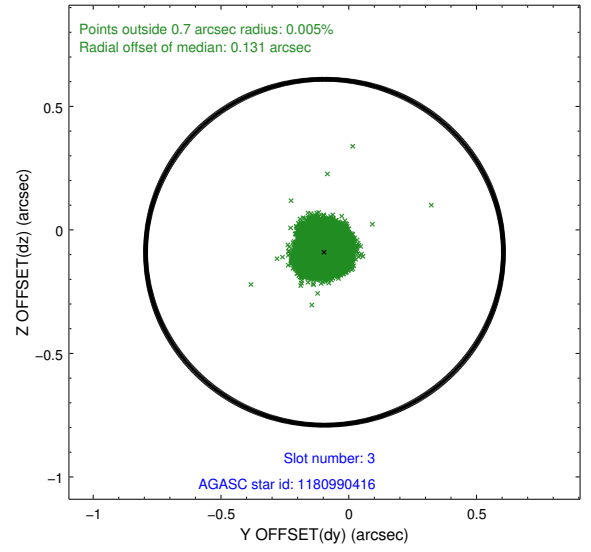
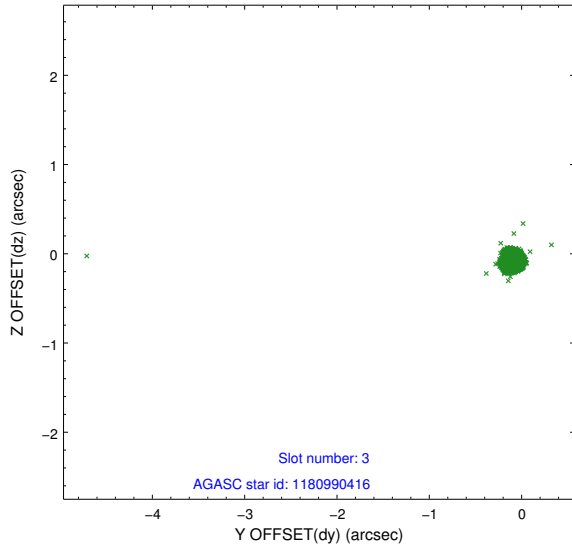


Slot Statistics

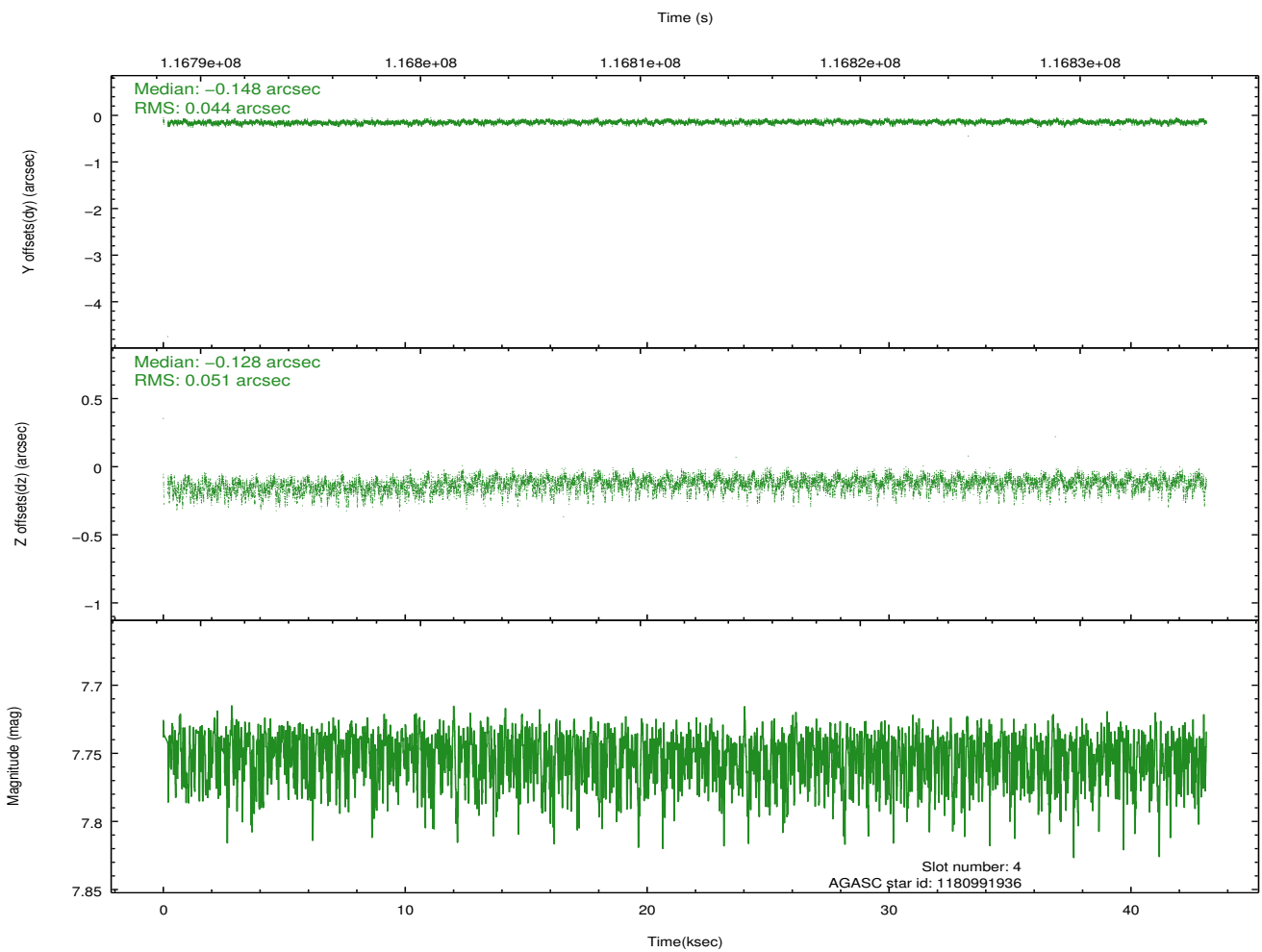
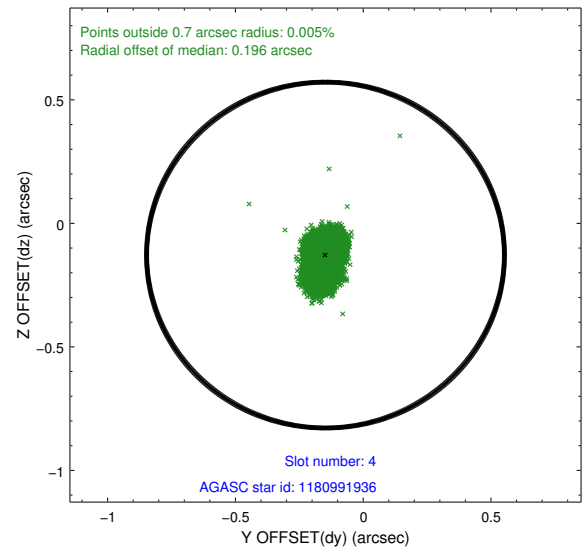
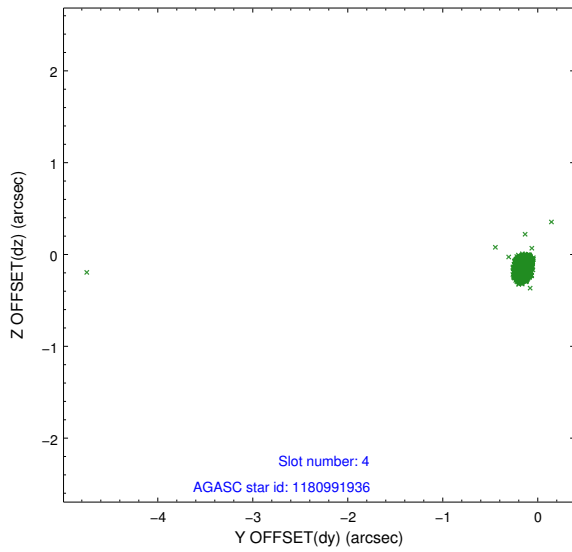
	status	id	mag	n_pts	med_dy	med_dz	dr1
	FID	ACIS-S-2	7.11	10481	0.019	0.024	0.013
	FID	ACIS-S-4	7.20	10481	-0.039	-0.009	0.012
	FID	ACIS-S-6	7.35	10481	-0.006	-0.005	0.013
	GUIDE	1180990416	8.02	20961	-0.095	-0.090	0.073
	GUIDE	1180991936	7.75	20944	-0.148	-0.128	0.062
	GUIDE	1181107448	9.24	20952	-0.099	-0.059	0.086
	GUIDE	1180997096	9.39	20937	0.342	0.277	0.090
0.000	0.000	0.000	0.000000	0.000000	0.00	0.00	

2.4 Star Slots

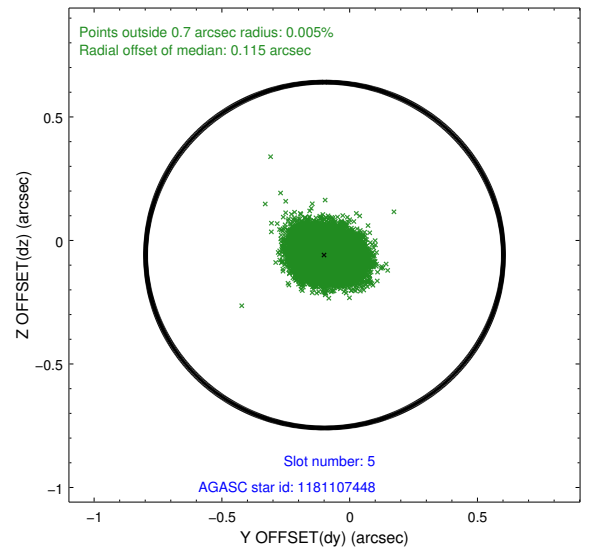
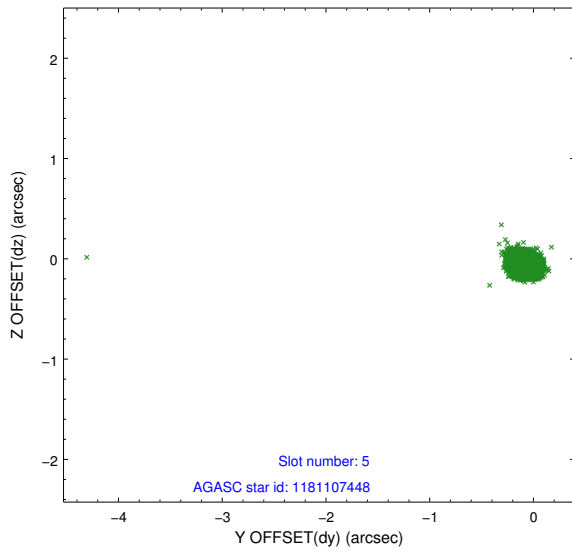
2.4.1 Slot 3



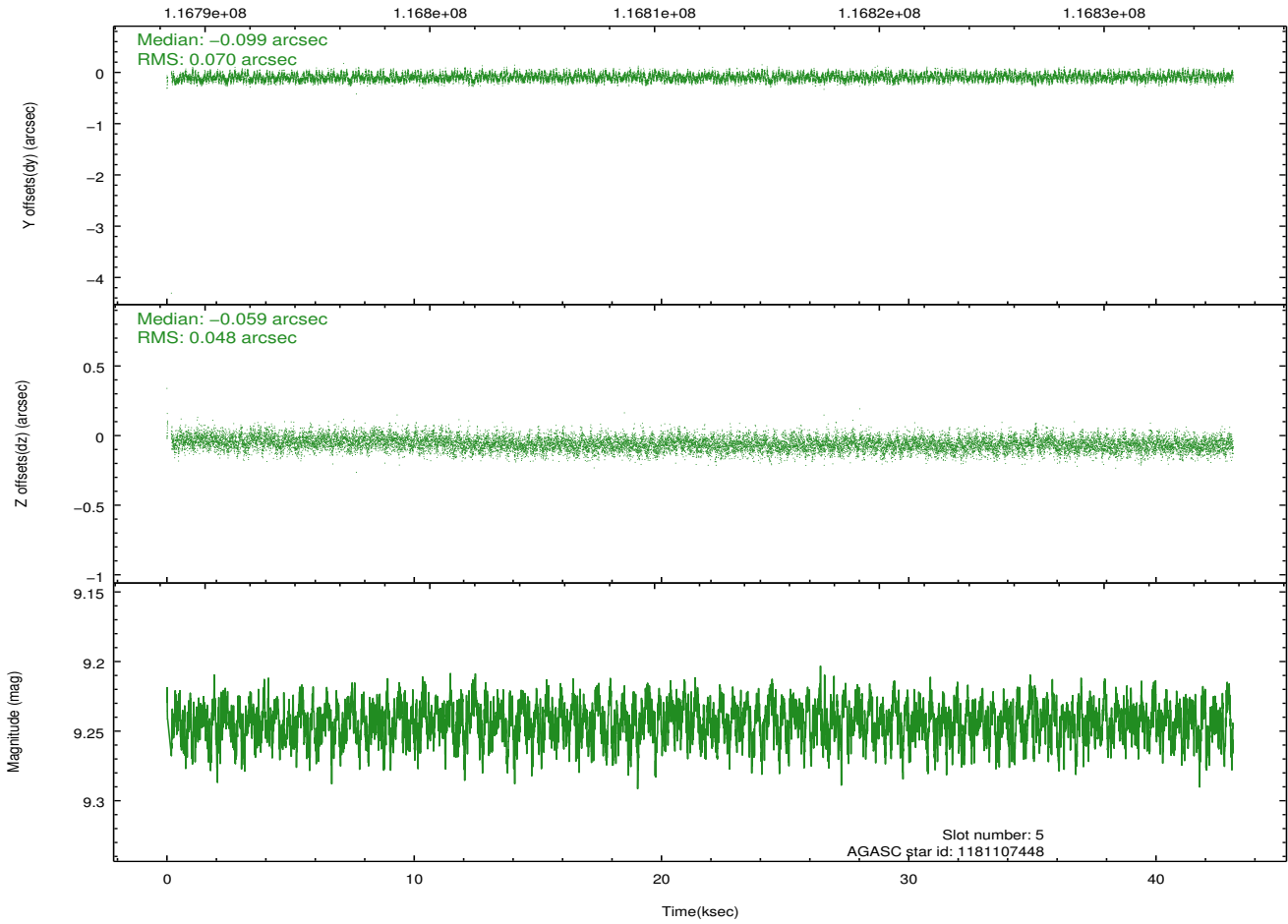
2.4.2 Slot 4



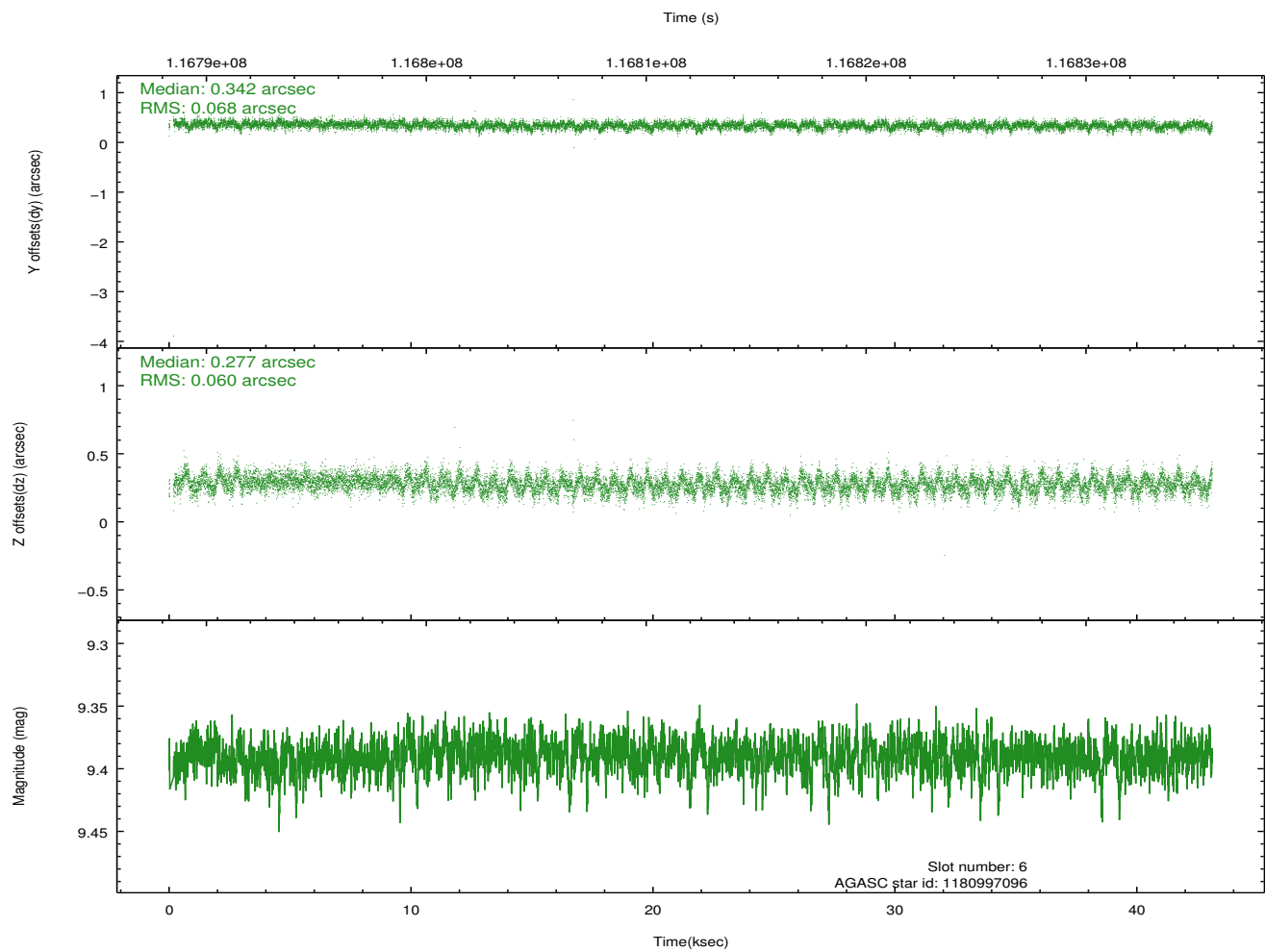
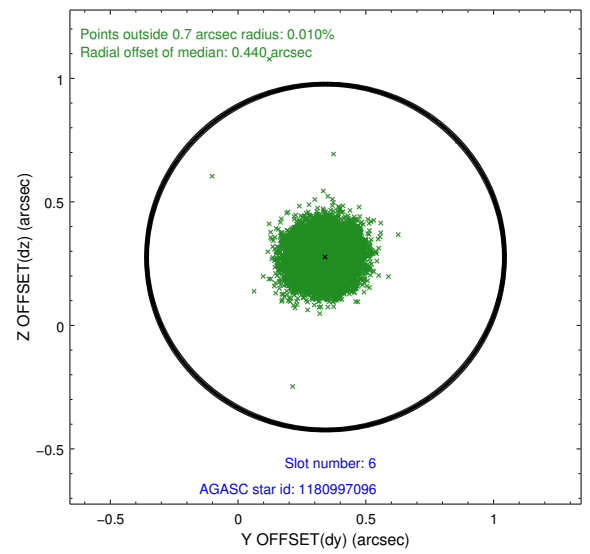
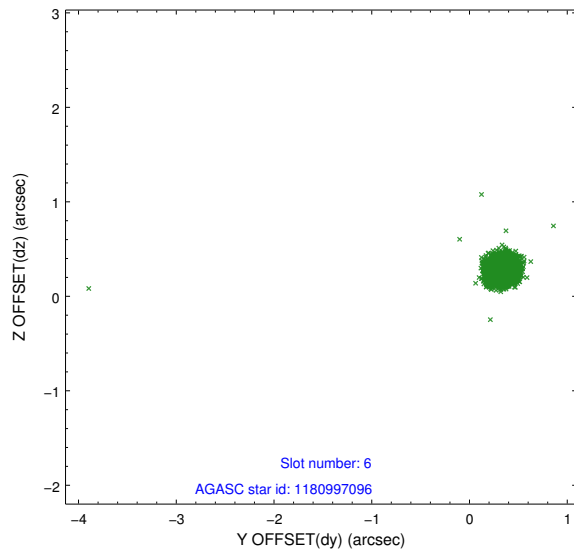
2.4.3 Slot 5



Time (s)

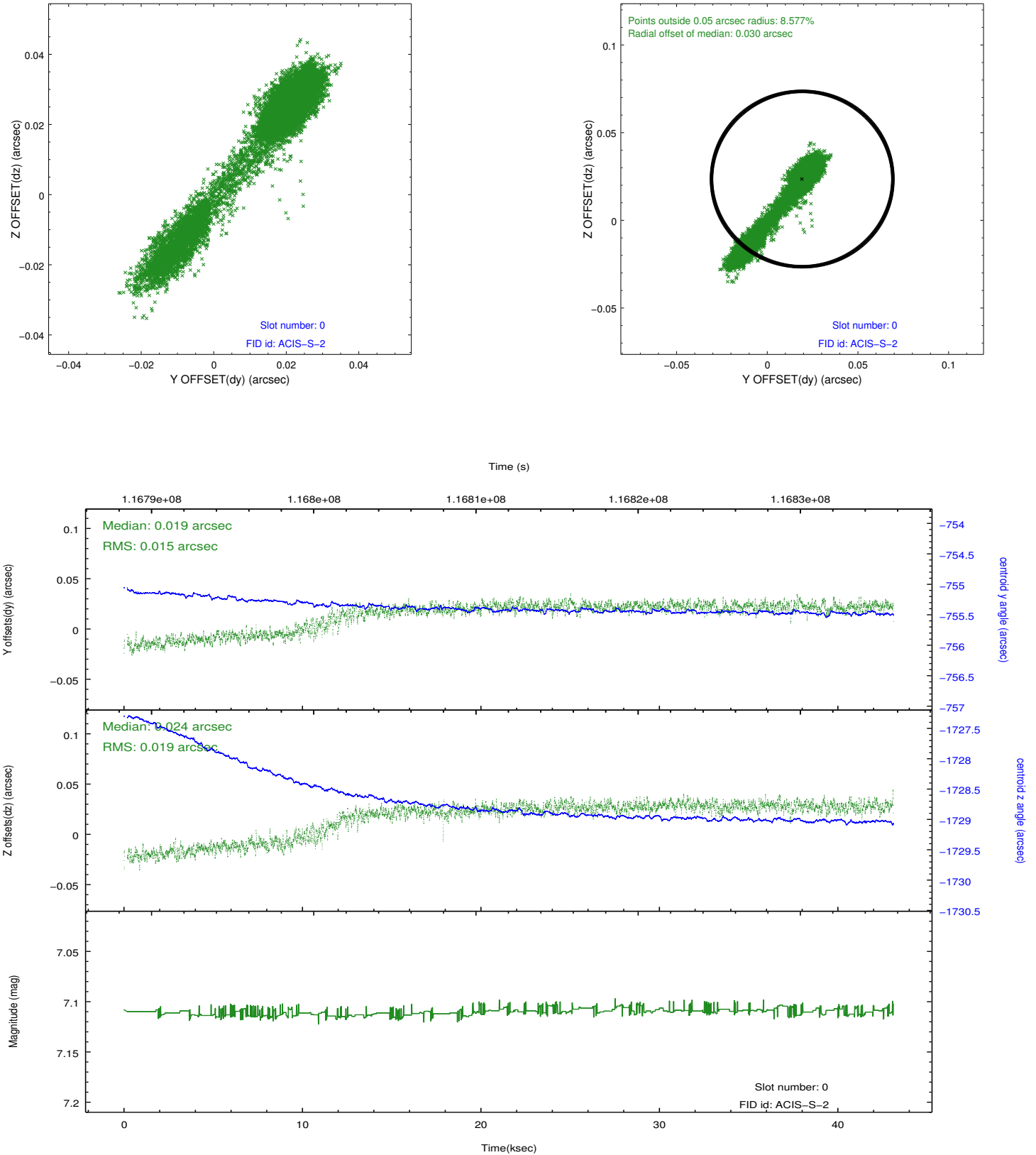


2.4.4 Slot 6

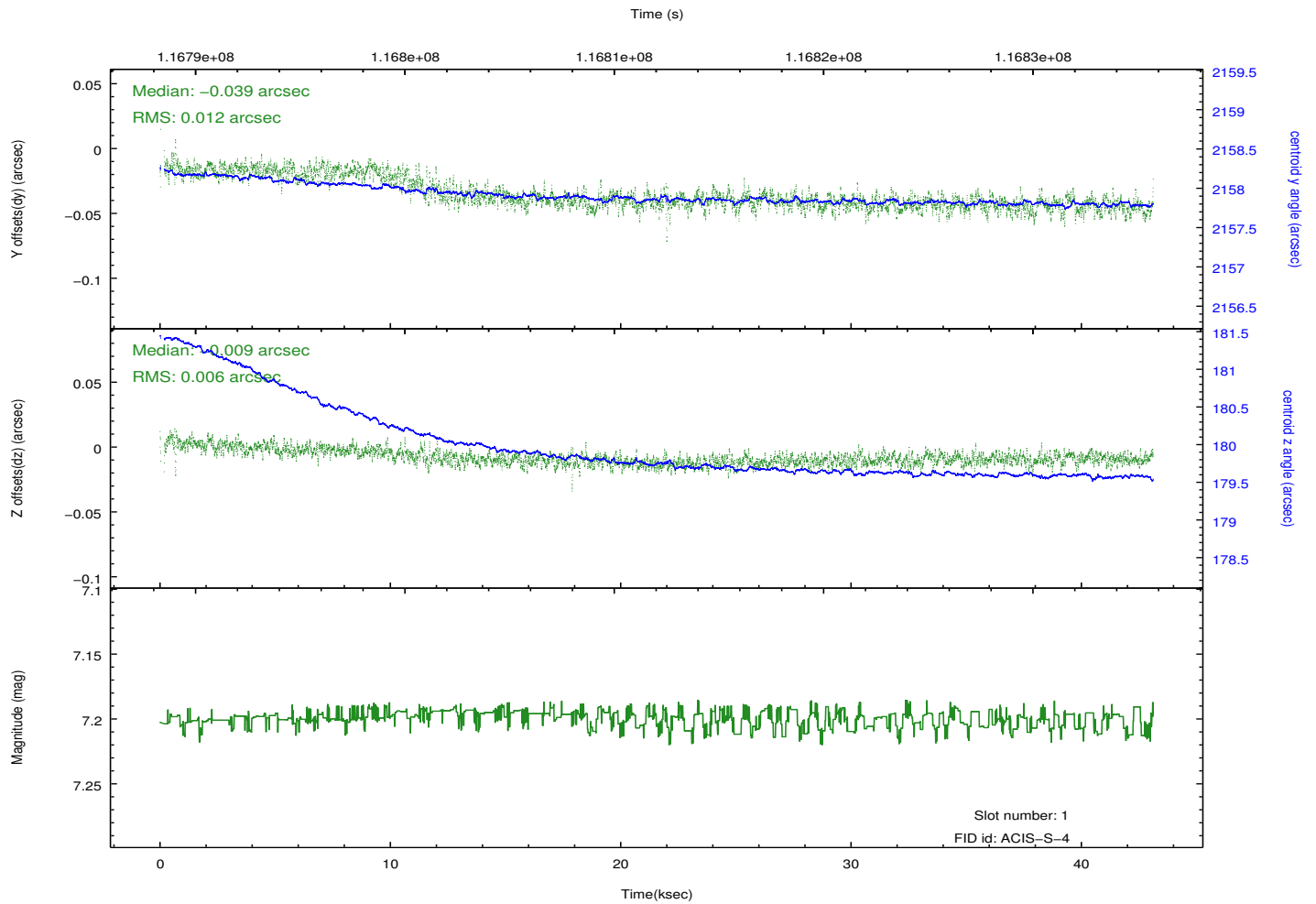
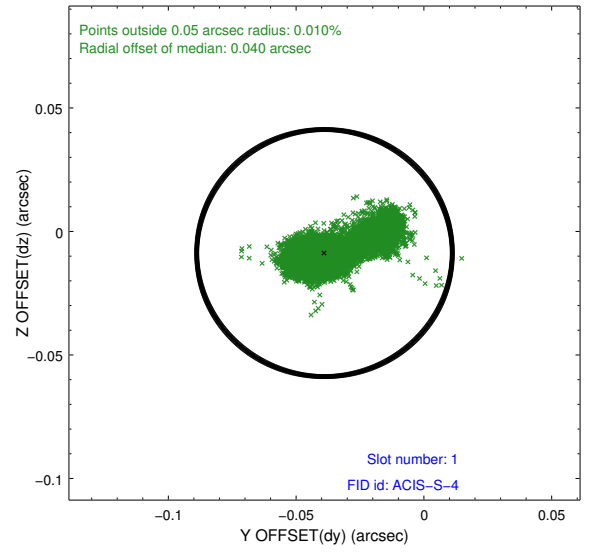
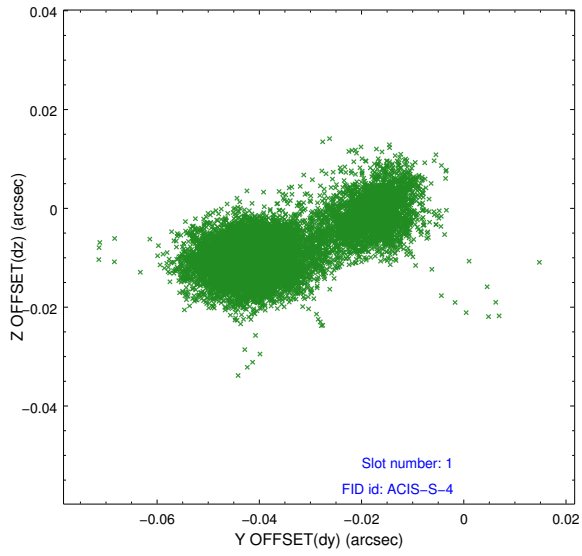


2.5 FID Slots

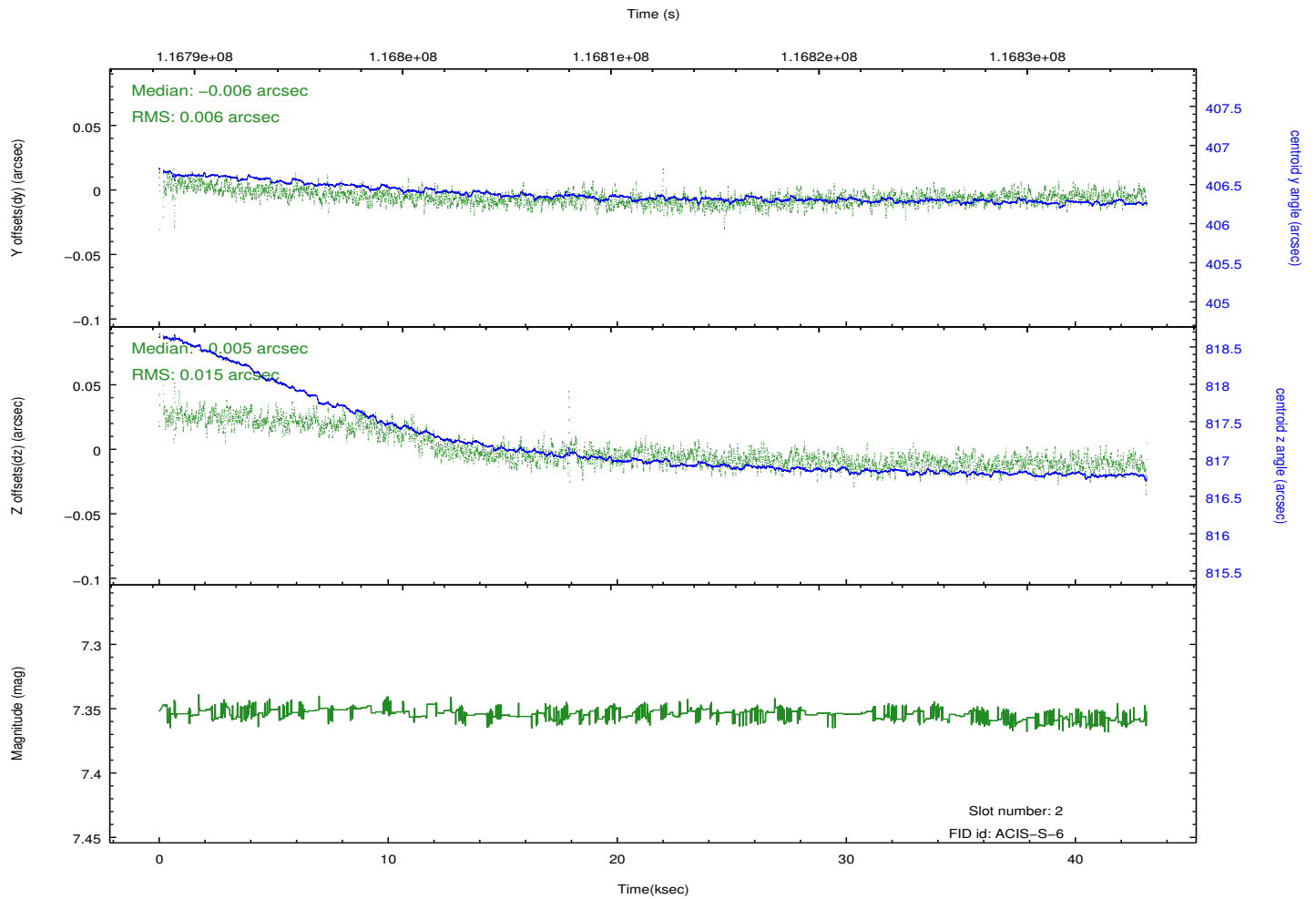
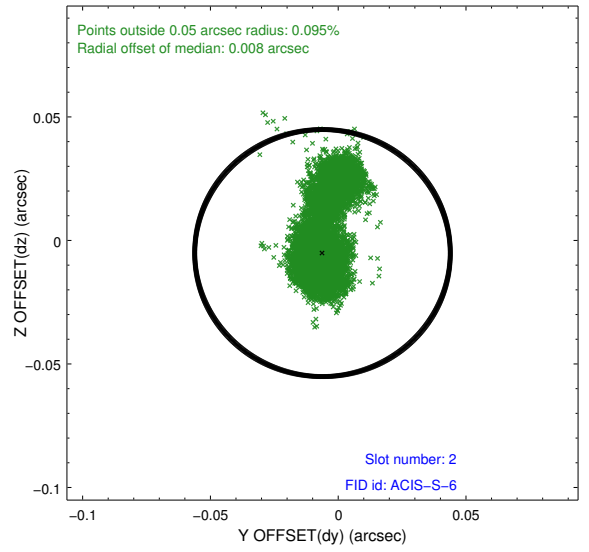
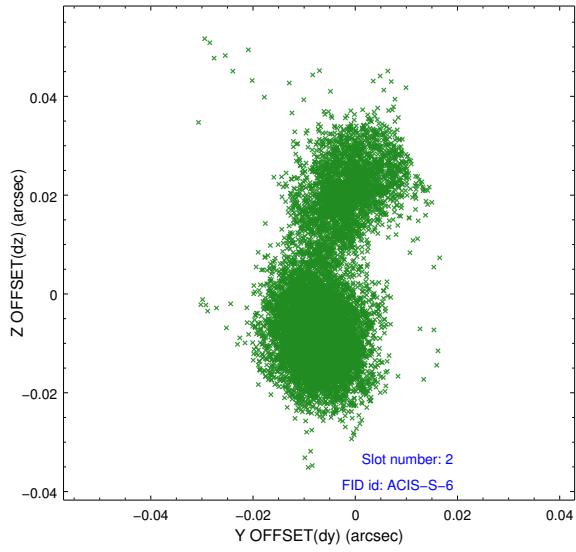
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2

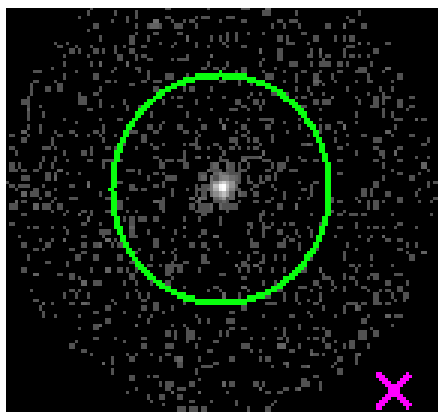


3 Gratings

3.1 HEG Arm



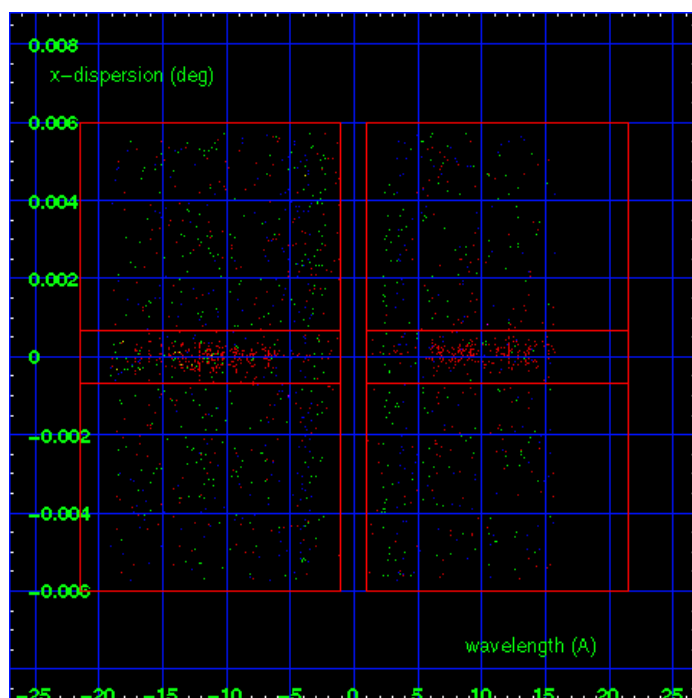
HEG Order Sort 123



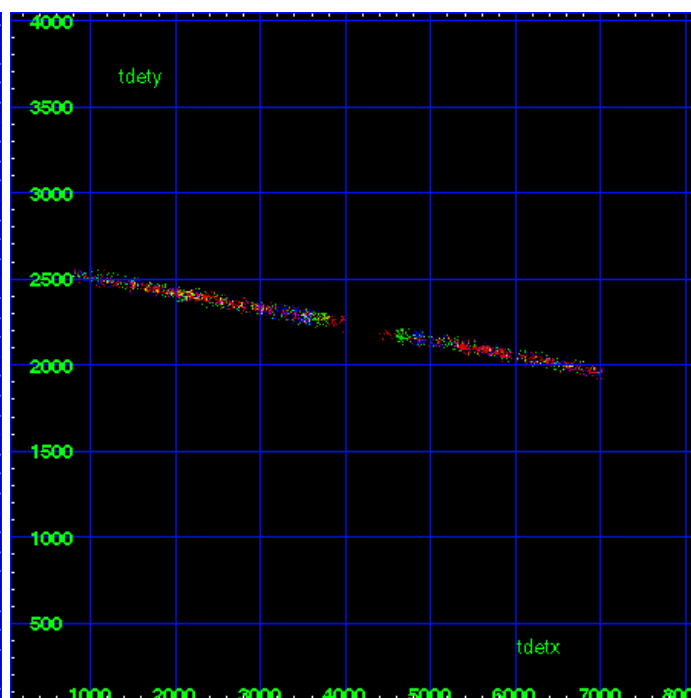
HEG Zero Order



HEG Order Sort ALL

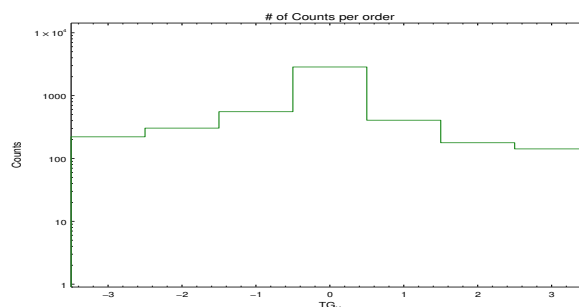


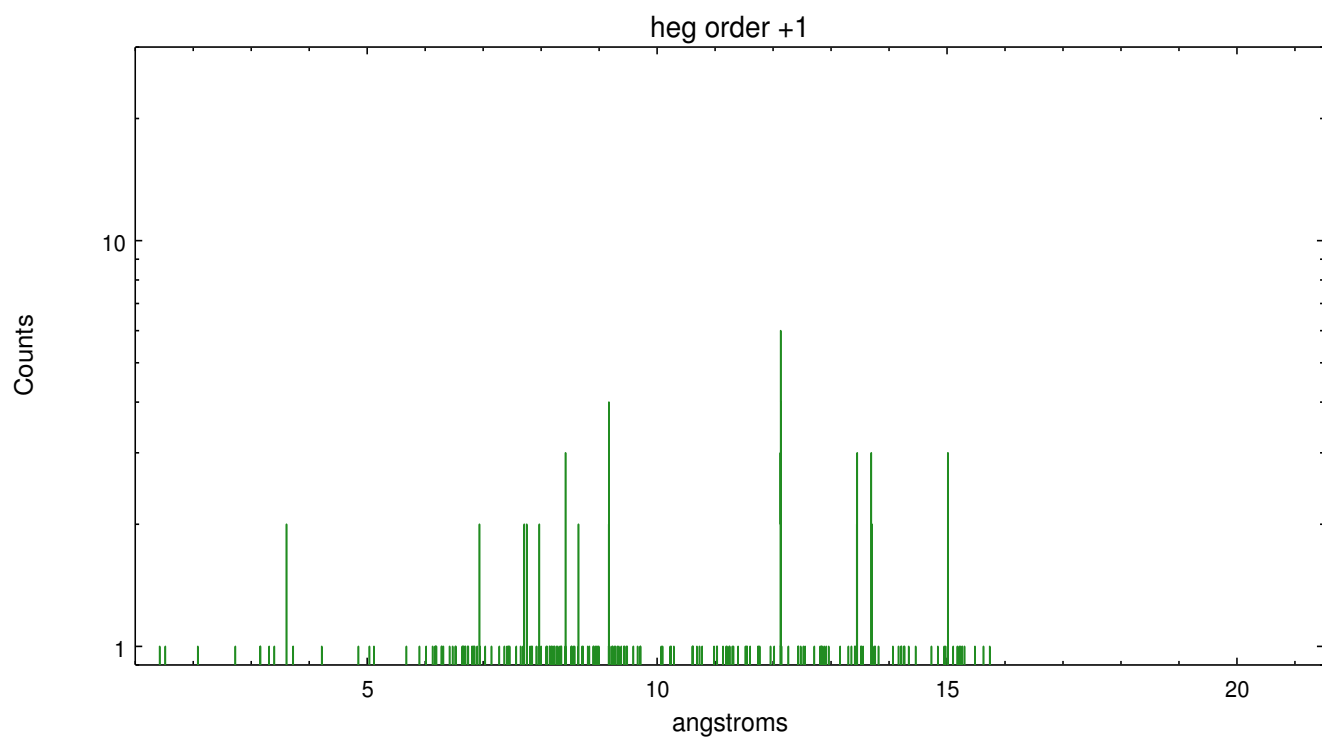
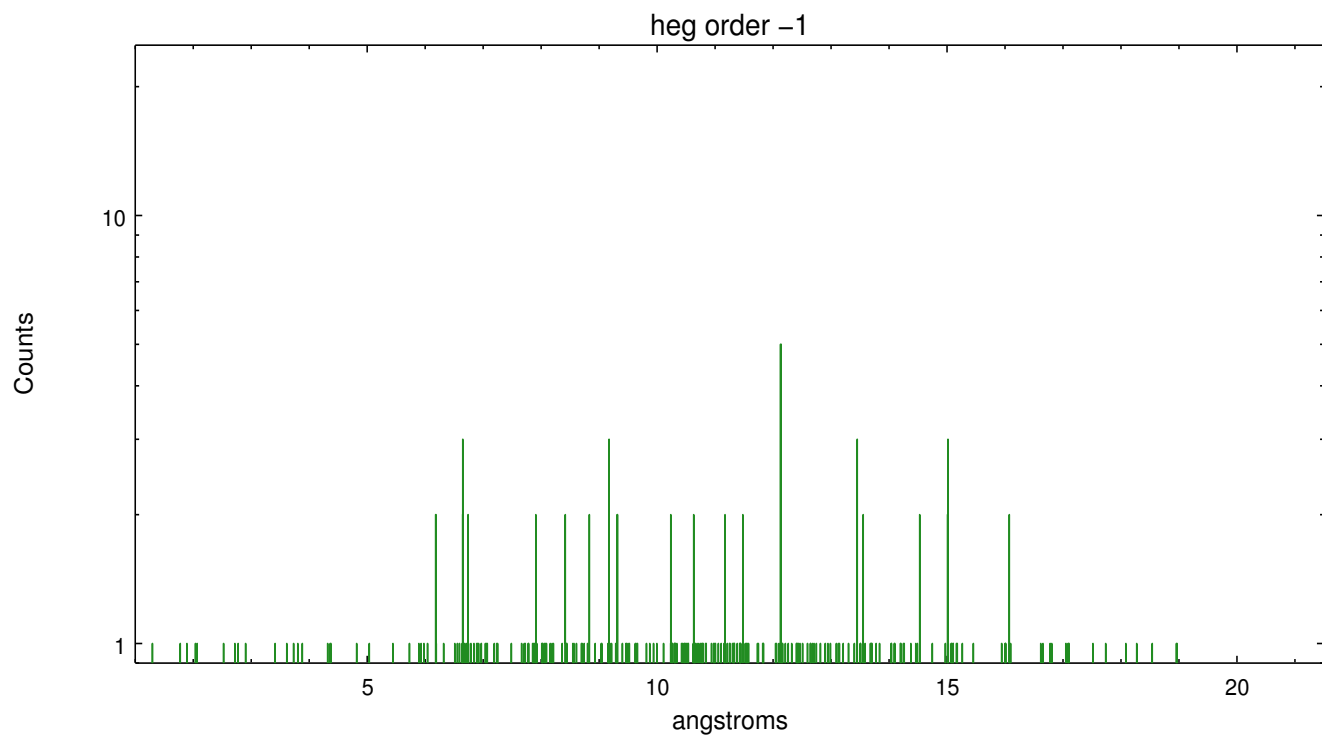
Spot Image HEG



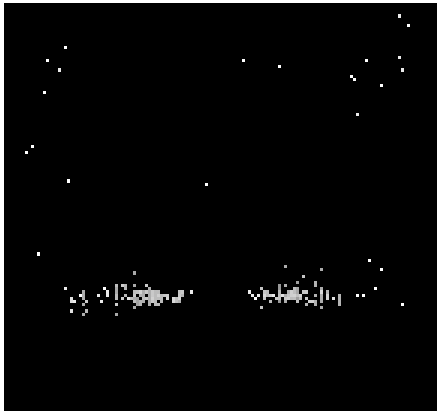
Full Detector HEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	221	304	555	2856	406	178	142

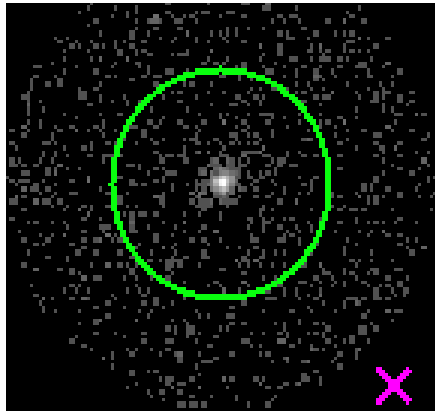




3.2 MEG Arm



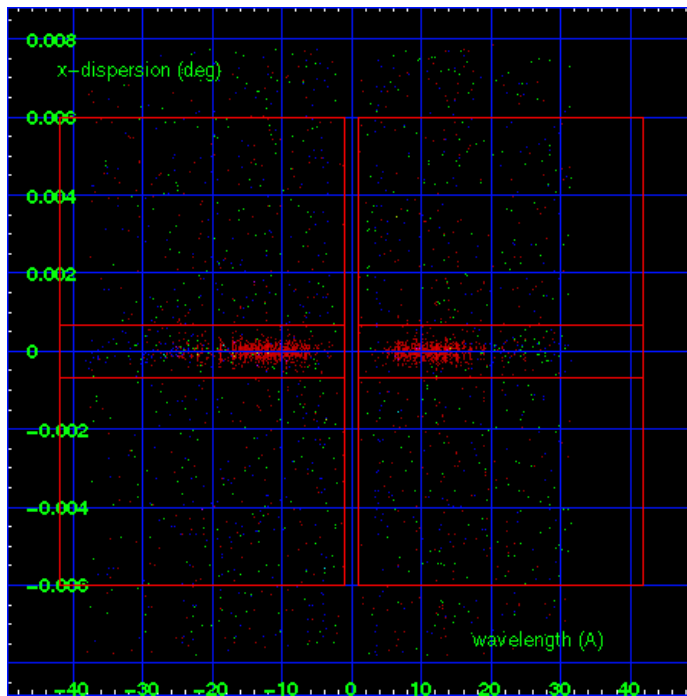
MEG Order Sort 123



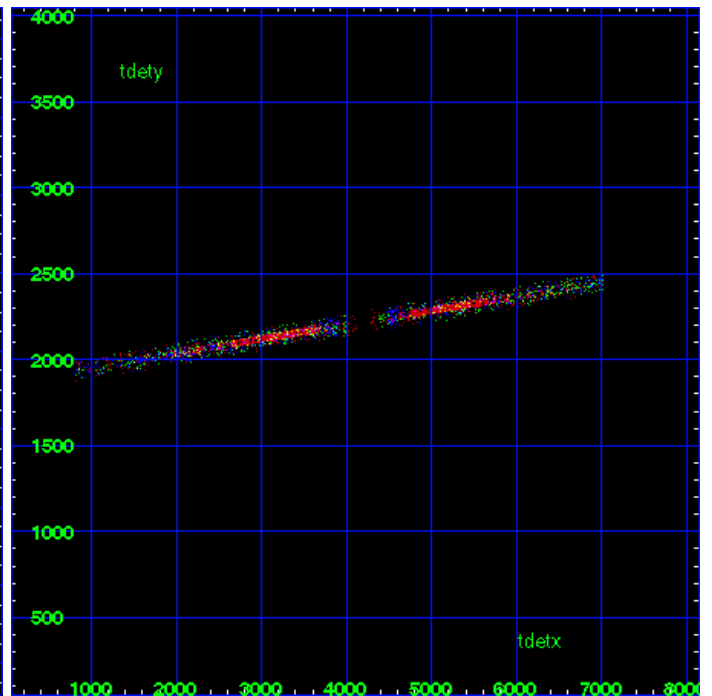
MEG Zero Order



MEG Order Sort ALL

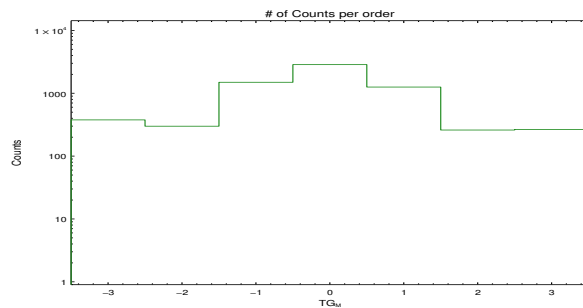


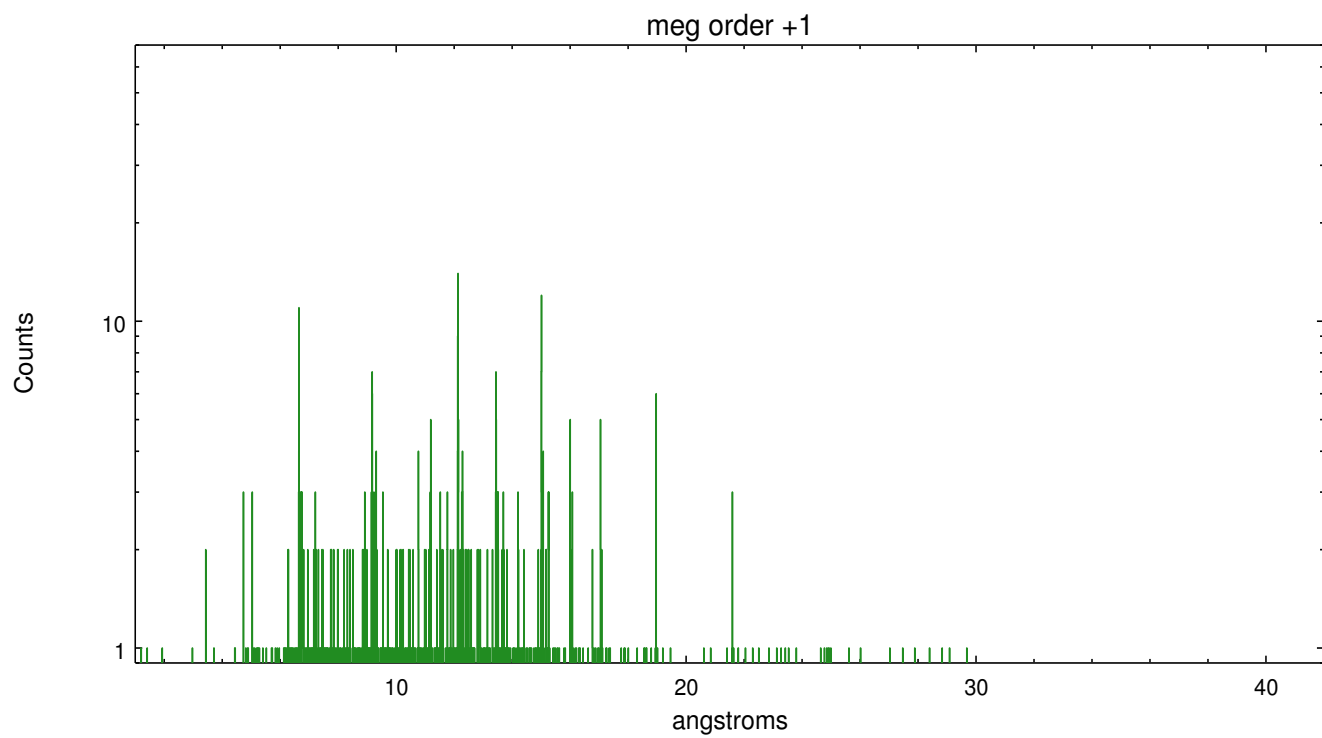
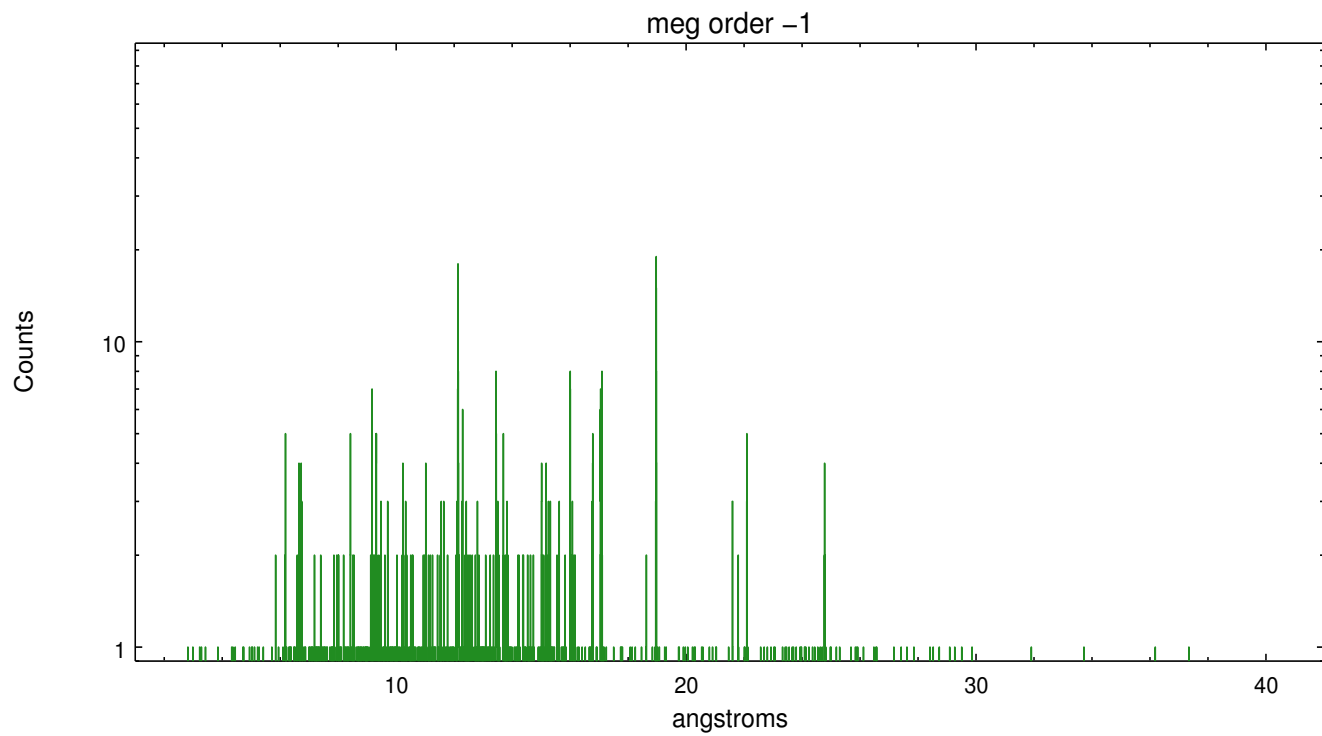
Spot Image MEG



Full Detector MEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	377	299	1495	2856	1255	260	266





A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.09.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	42.937

A.2 Comments

Optical photometry of target in slot 7.