

V&V Reference Report

L2 ASCDS Version : 10.4.3

Observation 18727 - L2 Version 2
Chandra X-Ray Center

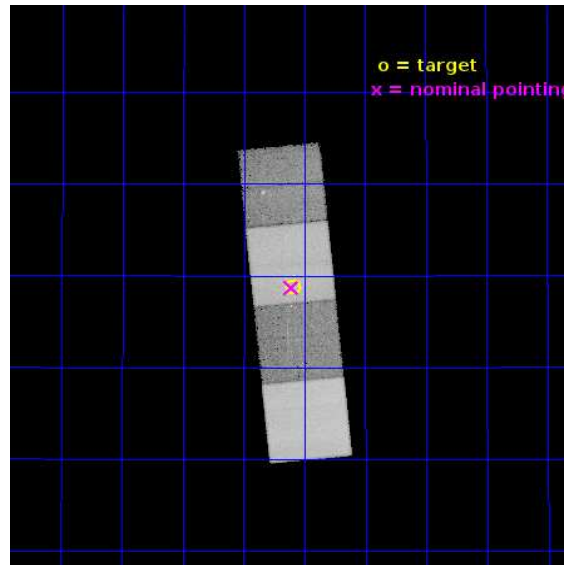
L2 Processing Date : Dec 29 2015

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1 Front

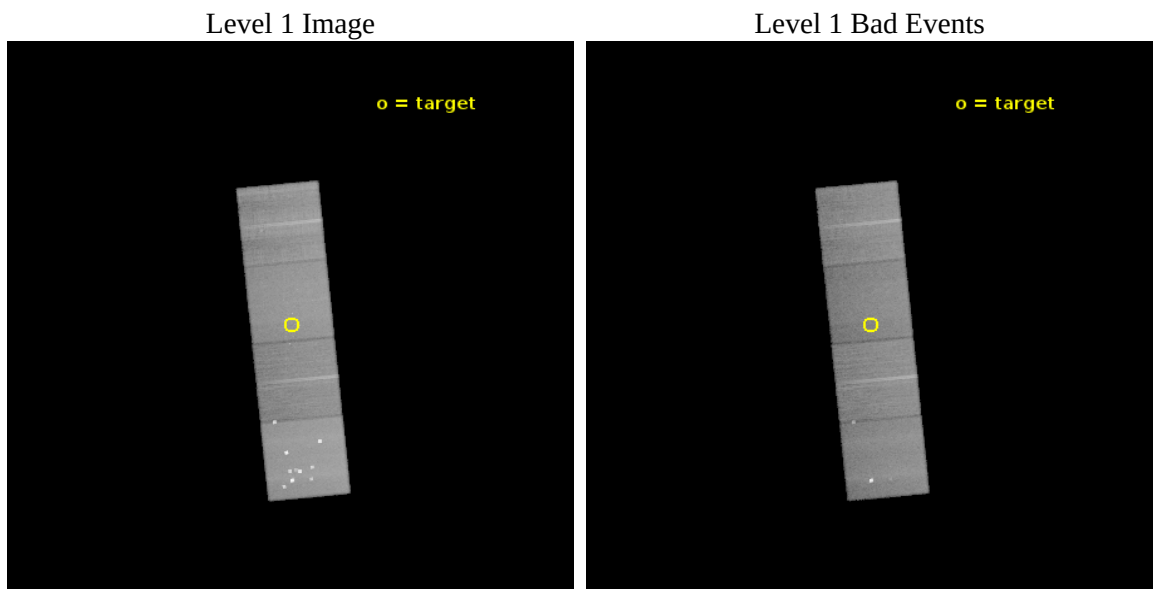
seq_num	201048	Sequence number
obs_id	18727	Observation id
title	Using high resolution x-ray spectra to probe accretion, abundances, and coronal activity in the young cluster IC 348	Proposal title
observer	Dr. David Huenemoerder	Principal investigator
object	IC 348	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	56.149167	Observer's specified target RA [deg]
dec_targ	32.145306	Observer's specified target Dec [deg]
ra_nom	56.151975324749	Nominal RA [deg]
dec_nom	32.145102076324	Nominal Dec [deg]
roll_nom	264.29963365865	Nominal Roll [deg]
revision	2	Processing version of data
ontime	44547.000342727	Sum of GTIs [s]
livetime	43964.960988224	Livetime [s]
ontime5	44547.000342727	Sum of GTIs [s]
ontime6	44543.85927248	Sum of GTIs [s]
ontime7	44547.000342727	Sum of GTIs [s]
ontime8	44547.000342727	Sum of GTIs [s]
l2events	394444	Number of level 2 events



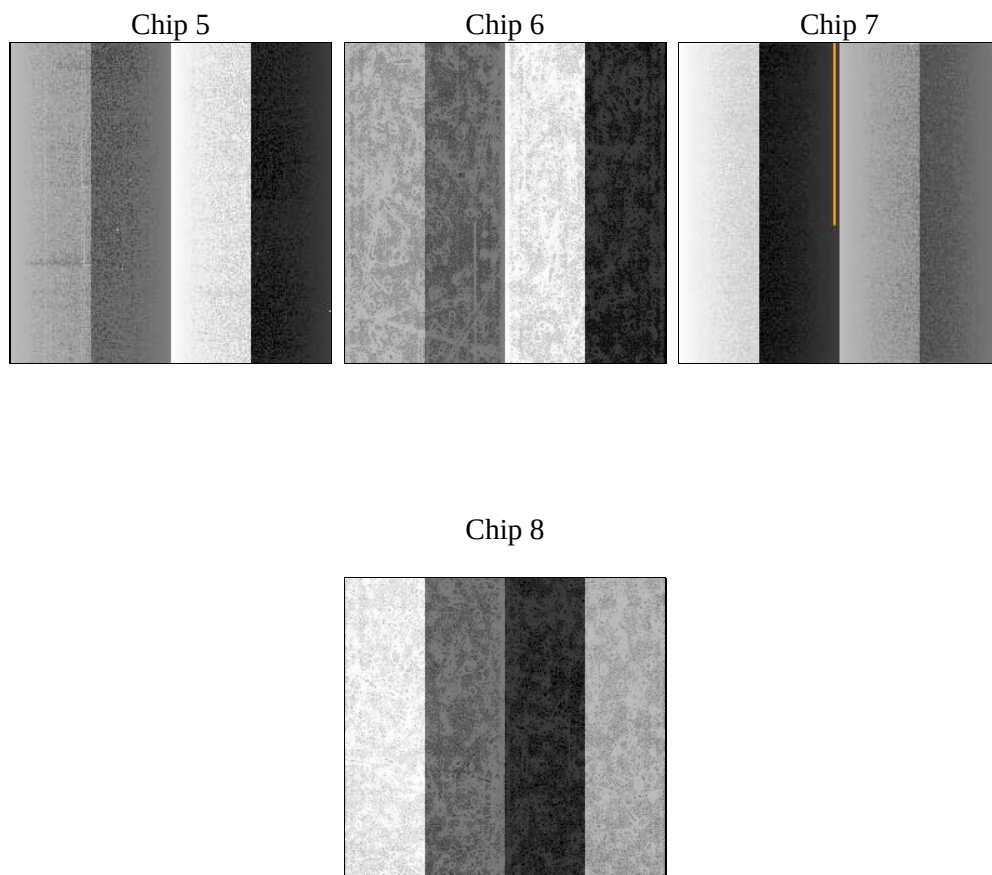
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	44483.000000	[s] Scheduled observation exposure time
ascdsver	10.4.3	Processing system revision	ontime	44547.000342727	Sum of GTIs [s]
caldsver	4.7.0	 	ontime5	44547.000342727	Sum of GTIs [s]
date	2015-12-25T18:12:33	Date and time of file creation	ontime6	44543.85927248	Sum of GTIs [s]
revision	1	Processing version of data	ontime7	44547.000342727	Sum of GTIs [s]
			ontime8	44547.000342727	Sum of GTIs [s]
			l1events	1469746	Number of level 1 events
			tgmethod	MANUAL	Method used to create src1a file
			zo_pos	(4192.00, 4086.60)	src1a sky pixel position

2.1.4 Events

	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	501217	273686	347478	347365
rejected events	236864	241408	198164	259055
rejected %	47%	88%	57%	74%

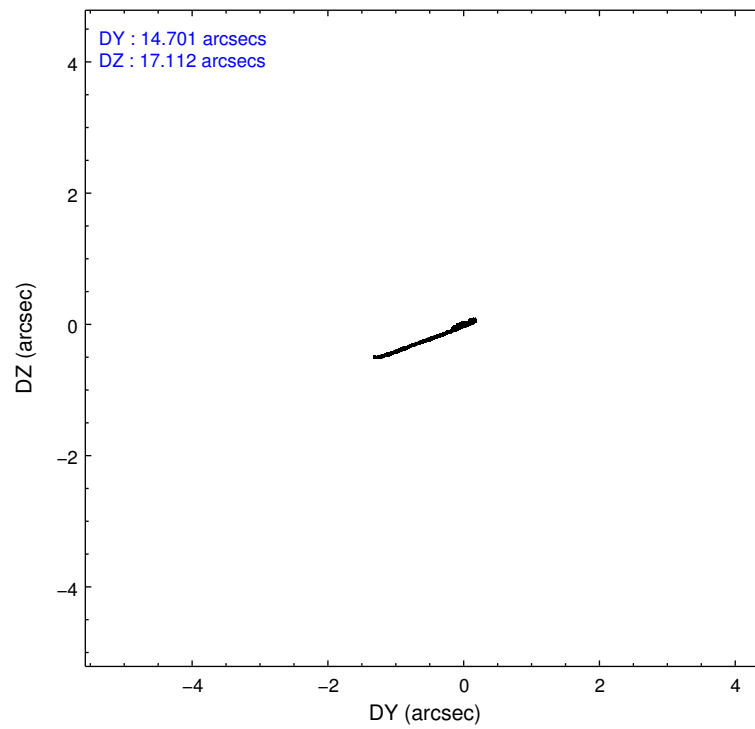
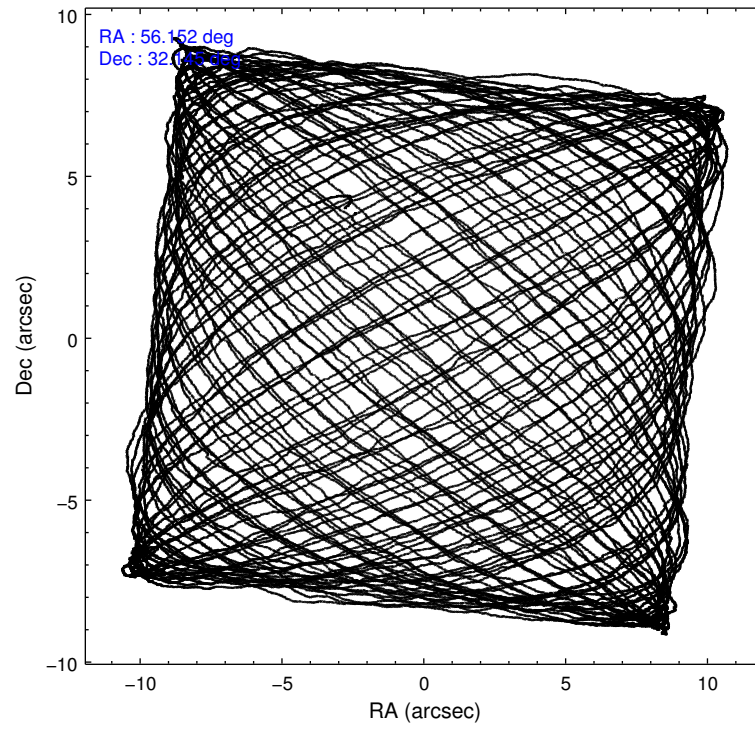
	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	62849	11241	12301	24842
	12%	4%	3%	7%
grade 1 events	1388	131	425	232
	0%	0%	0%	0%
grade 2 events	73167	7526	31740	21744
	14%	2%	9%	6%
grade 3 events	8225	3056	11061	9102
	1%	1%	3%	2%
grade 4 events	6621	2874	10996	8490
	1%	1%	3%	2%
grade 5 events	29040	12212	32492	18563
	5%	4%	9%	5%
grade 6 events	113535	7587	83236	24137
	22%	2%	23%	6%
grade 7 events	206392	229059	165227	240255
	41%	83%	47%	69%

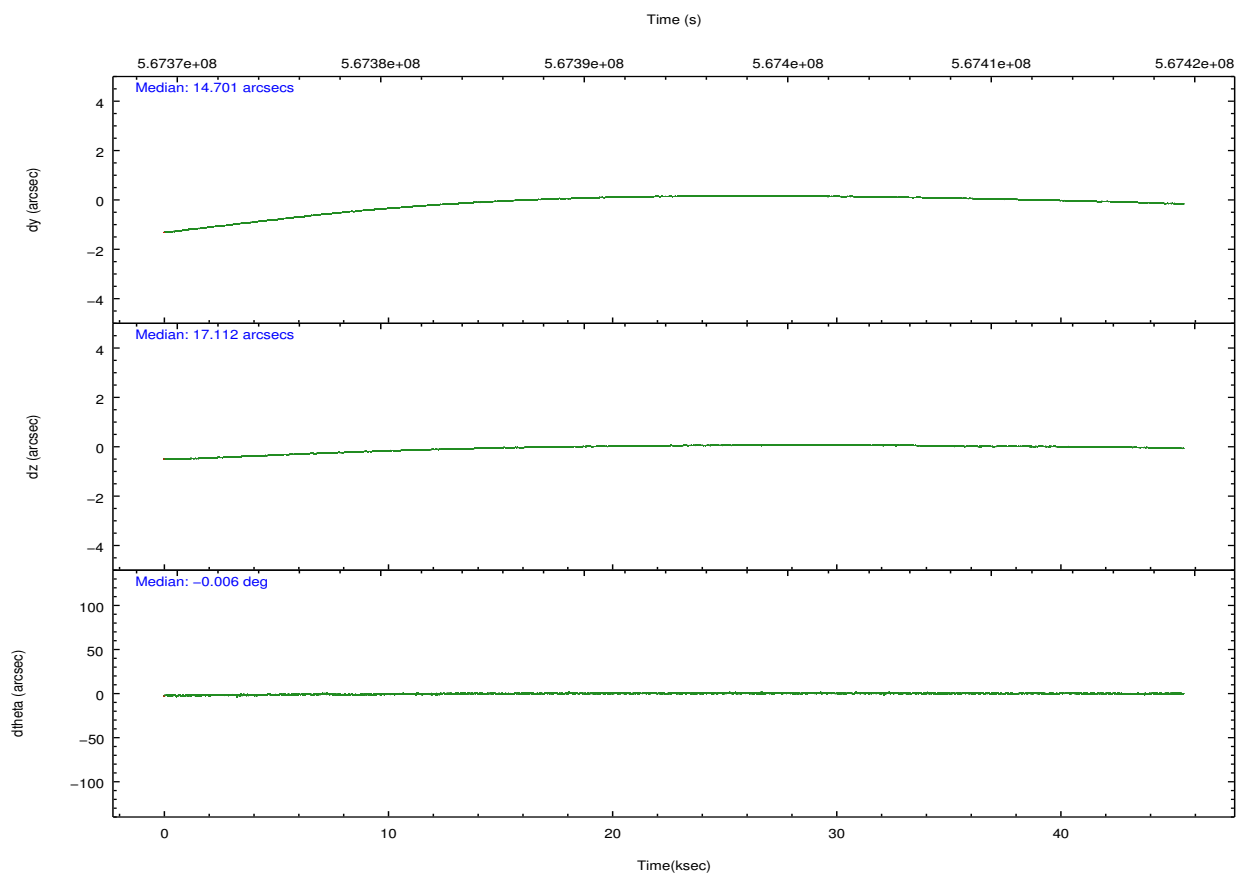
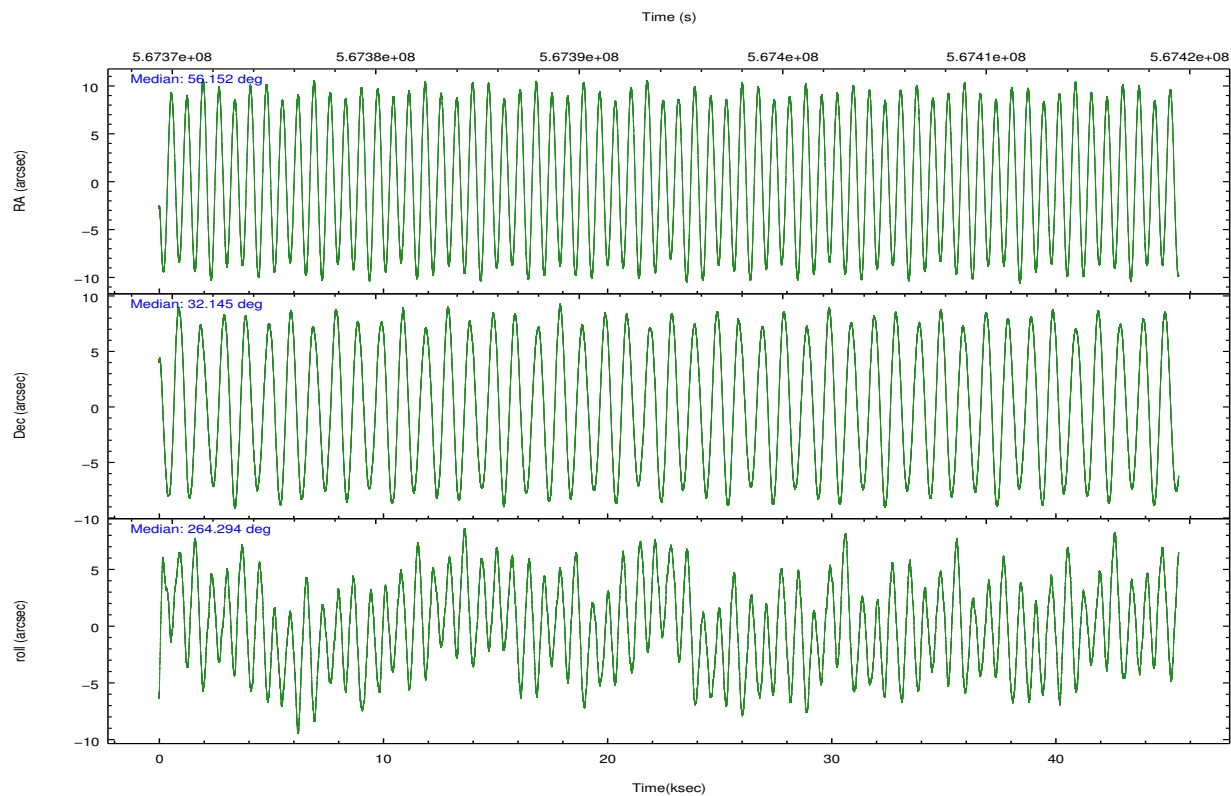
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-5678	ACIS-5678
Grating	HETG	HETG
Data mode	FAINT	FAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	56.138248	56.15197532474895
[deg] Pointing Dec	32.169971	32.14510207632421
[deg] Pointing Roll	264.150316	264.2996336586497
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-190.132523	-190.1425803651734
[mm] SIM translation stage offset	0	0.01005778216563158
[s] Observation start time (MET)	567372643.184000	567371207.7170399
Observation start date	2015-12-24T19:29:35	2015-12-24T19:06:47
[s] Observation end time (MET)	567417126.184000	567418120.4322
Observation end date	2015-12-25T07:50:58	2015-12-25T08:08:40
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
CCD I0 on	N	N
CCD I1 on	N	N
CCD I2 on	N	N
CCD I3 on	N	N
CCD S0 on	O1	N
CCD S1 on	Y	Y
CCD S2 on	Y	Y
CCD S3 on	Y	Y
CCD S4 on	Y	Y
CCD S5 on	O2	N
Number of optional ACIS chips dropped	2	2
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.1

2.3 Aspect



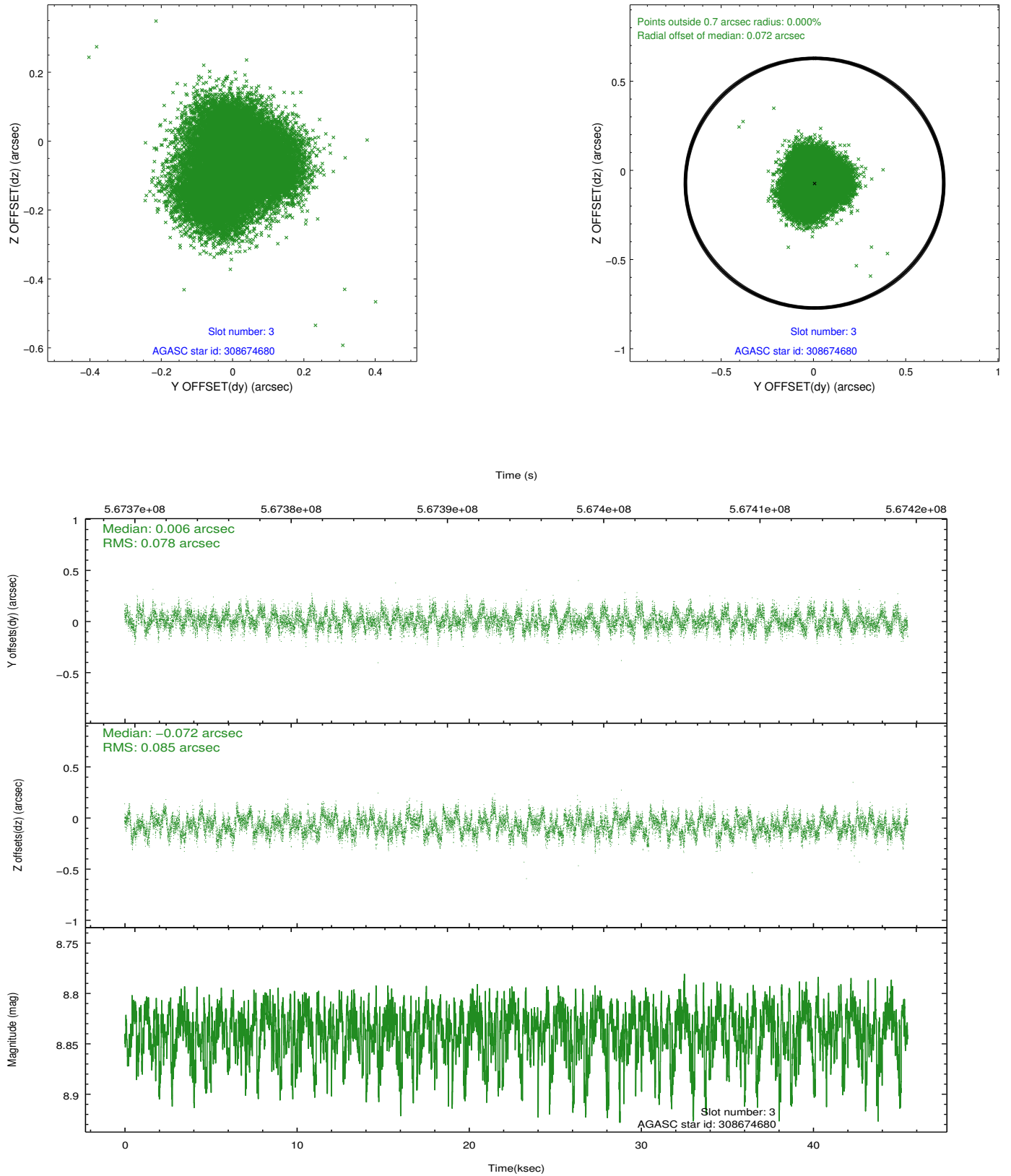


Slot Statistics

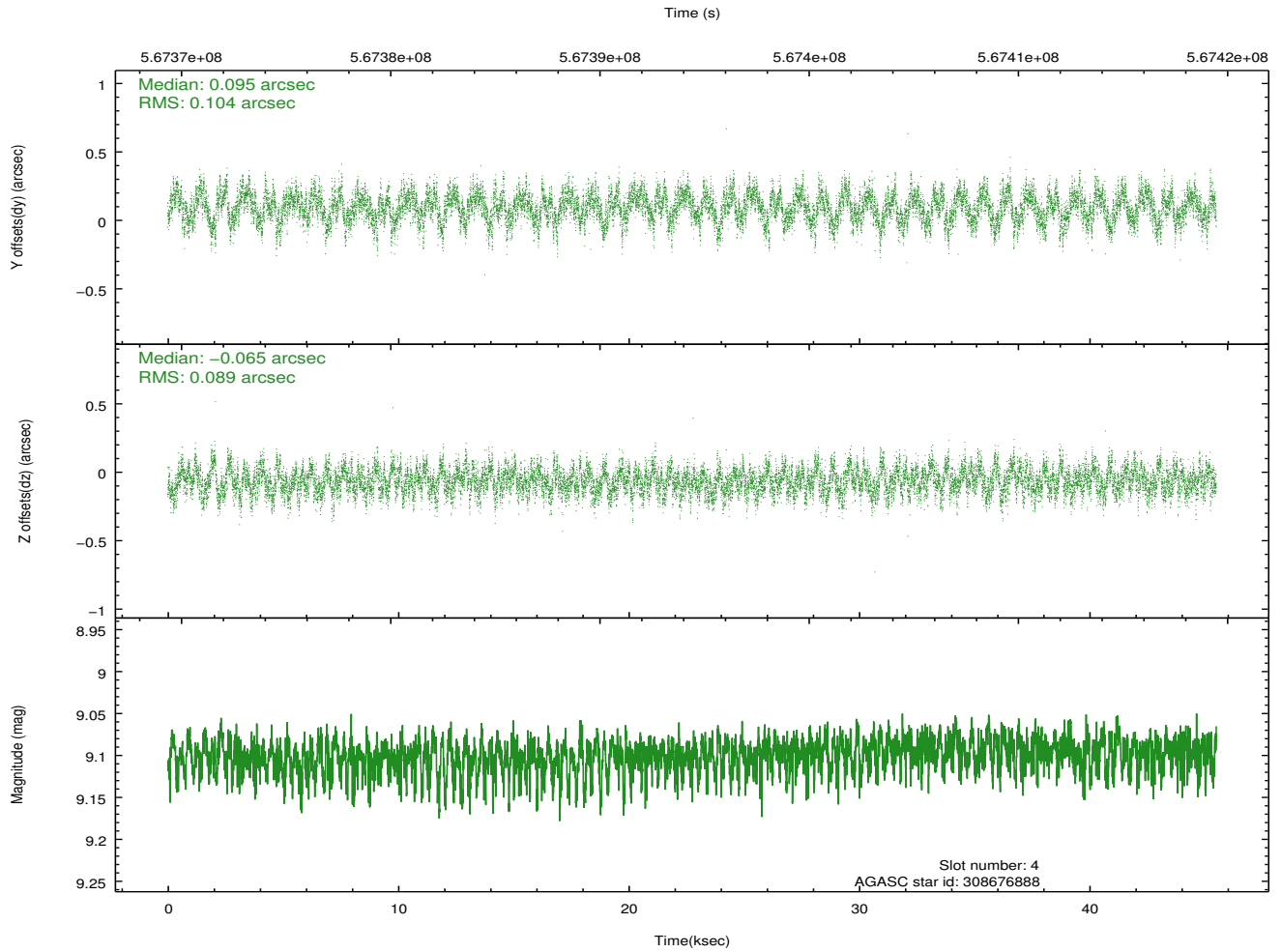
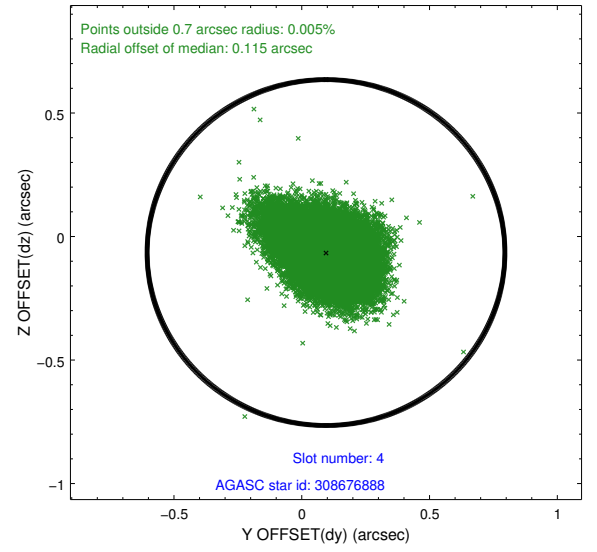
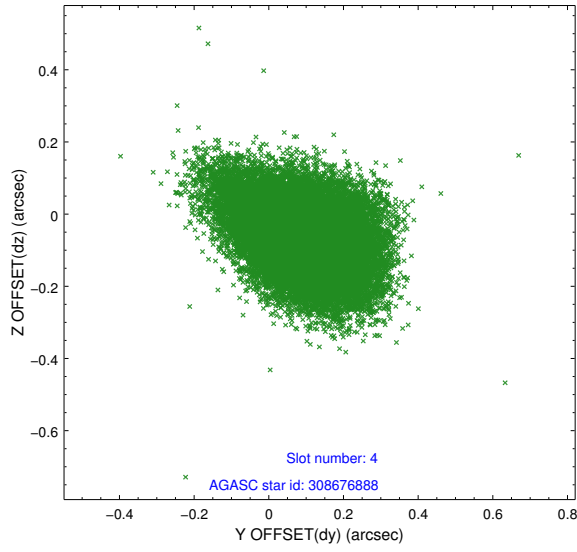
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	7.23	11097	0.069	-0.069	0.010	0.027	0.000000	0.000000	928.61	-1734.12
1	FID		ACIS-S-4	7.23	11098	0.310	0.020	0.008	0.016	0.000000	0.000000	2146.24	170.14
2	FID		ACIS-S-5	7.25	11098	-0.406	0.062	0.010	0.018	0.000000	0.000000	-1820.76	163.74
3	GUIDE	used	308674680	8.84	22181	0.006	-0.072	0.126	0.190	55.747345	31.652644	1972.19	-1001.03
4	GUIDE	used	308676888	9.10	22169	0.095	-0.065	0.144	0.238	55.566279	31.676245	1943.32	-1561.94
5	GUIDE	used	309205288	9.18	22180	0.147	0.288	0.147	0.245	55.920876	32.625581	-1563.96	-822.53
6	GUIDE	used	309332904	7.53	22191	-0.051	-0.100	0.070	0.116	56.362777	32.287653	-492.03	636.32
7	GUIDE	used	309336160	7.08	22188	-0.208	-0.052	0.079	0.133	56.670296	32.290187	-599.49	1566.42

2.4 Star Slots

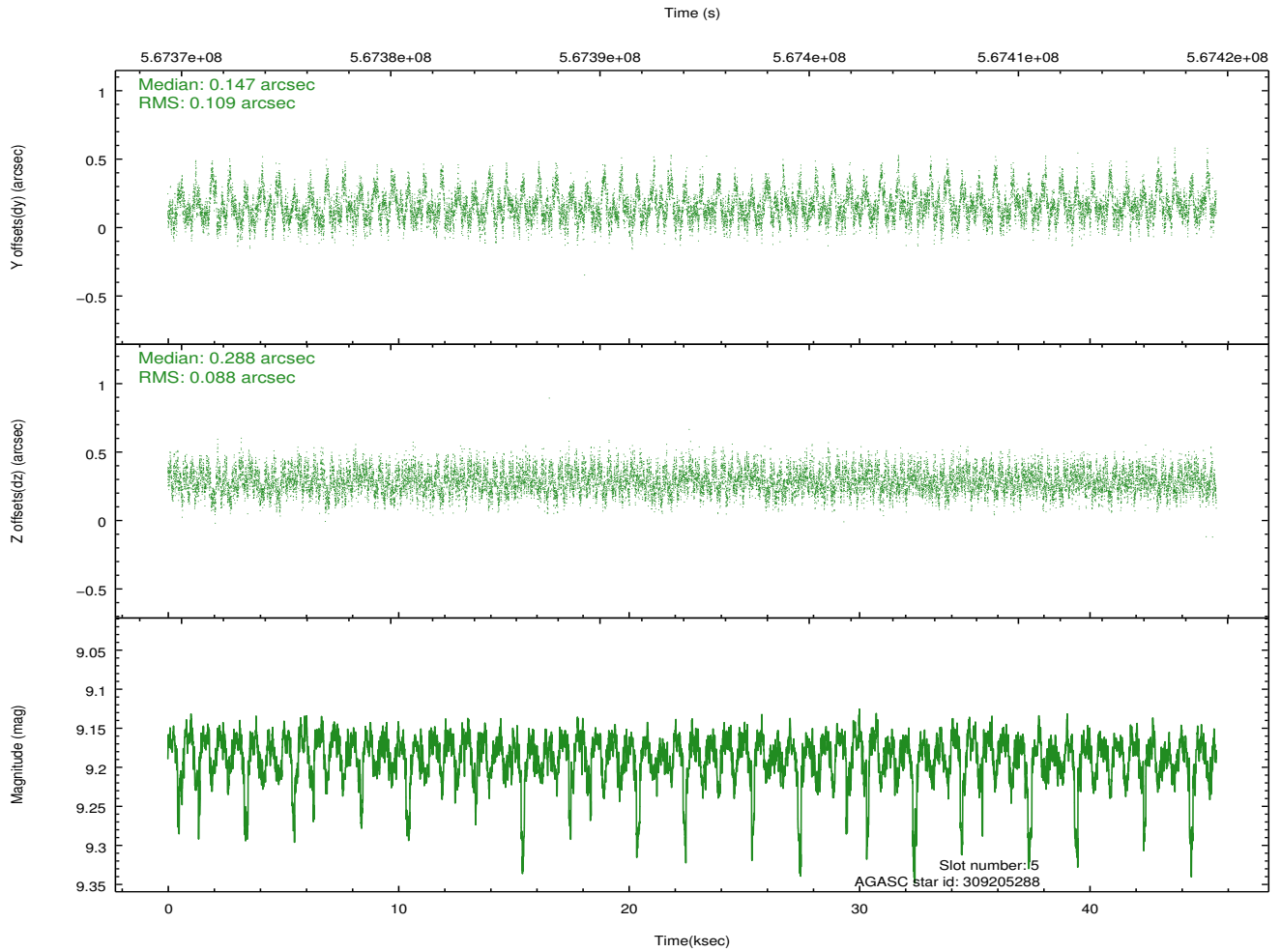
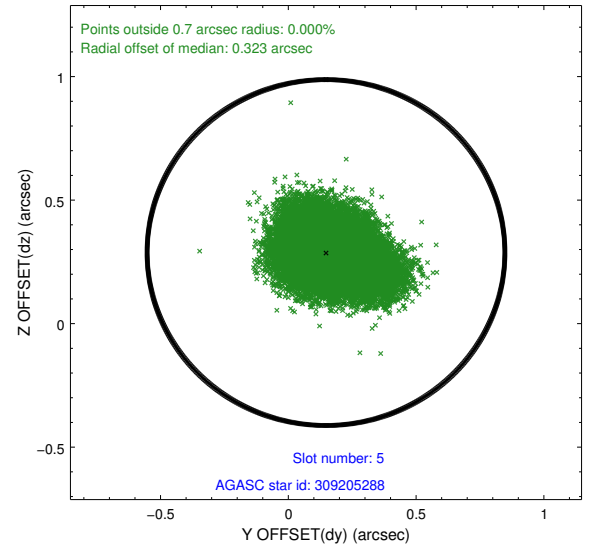
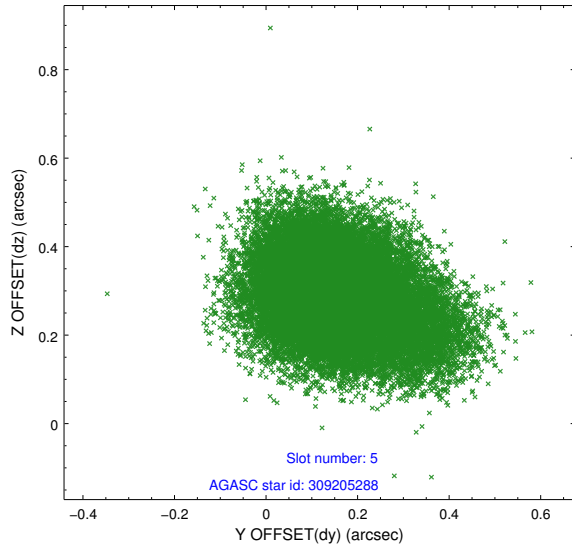
2.4.1 Slot 3



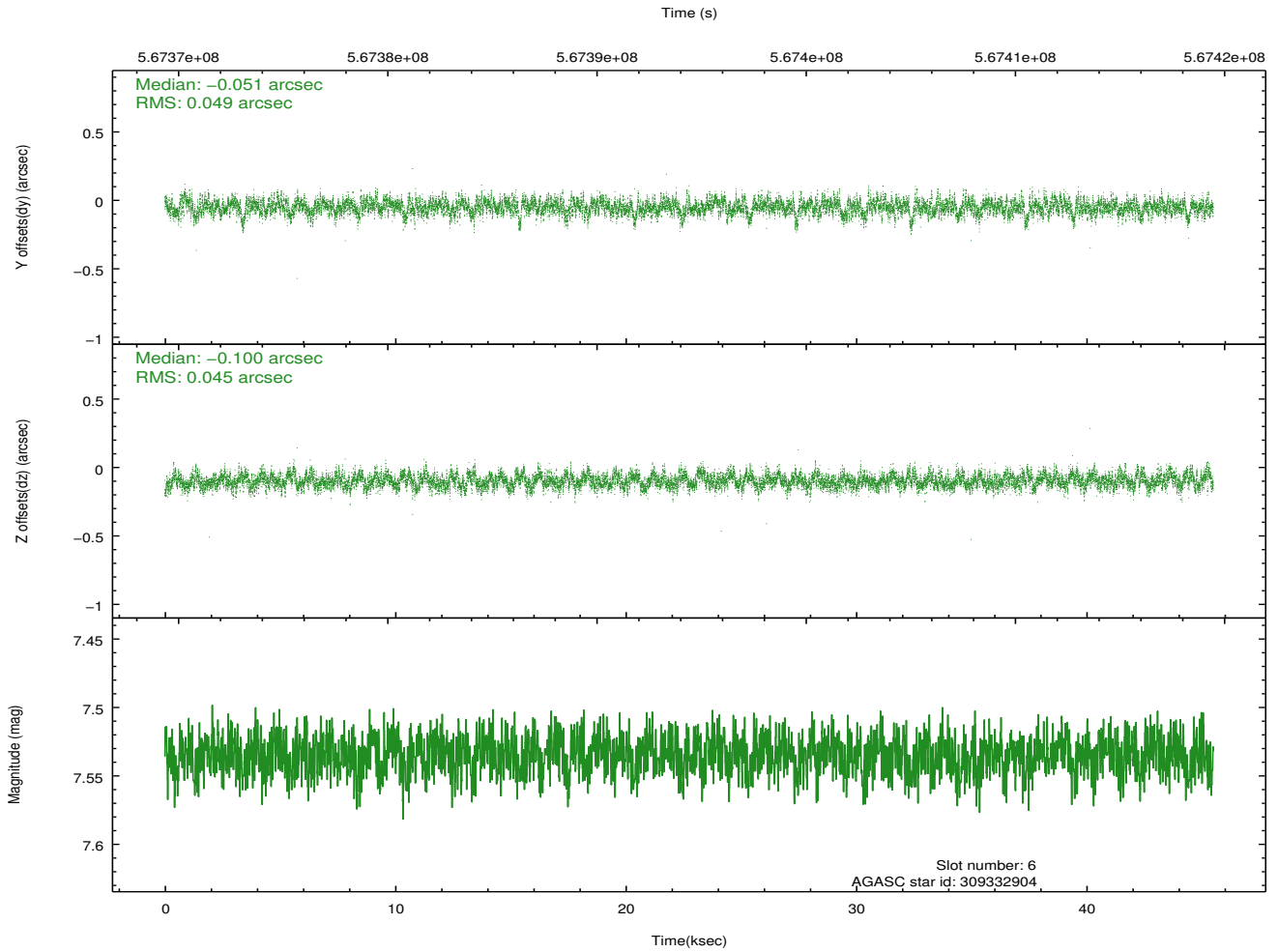
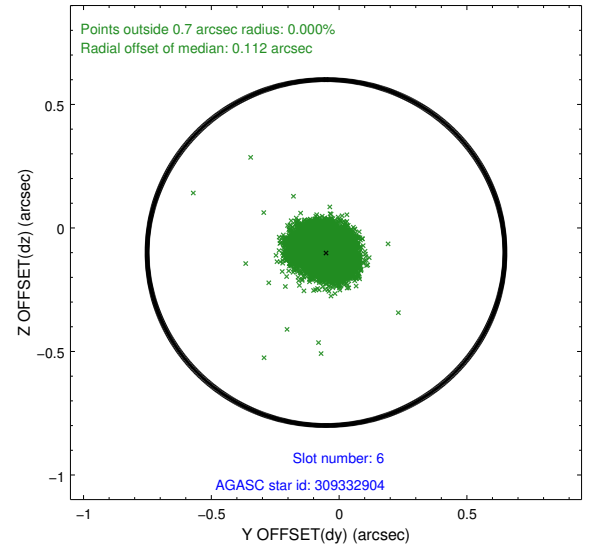
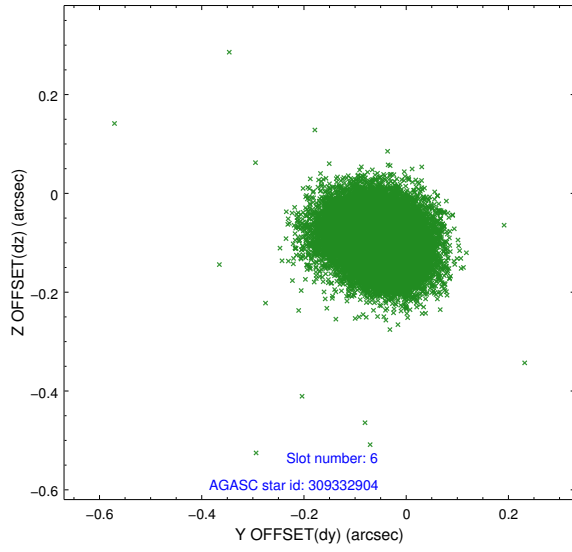
2.4.2 Slot 4



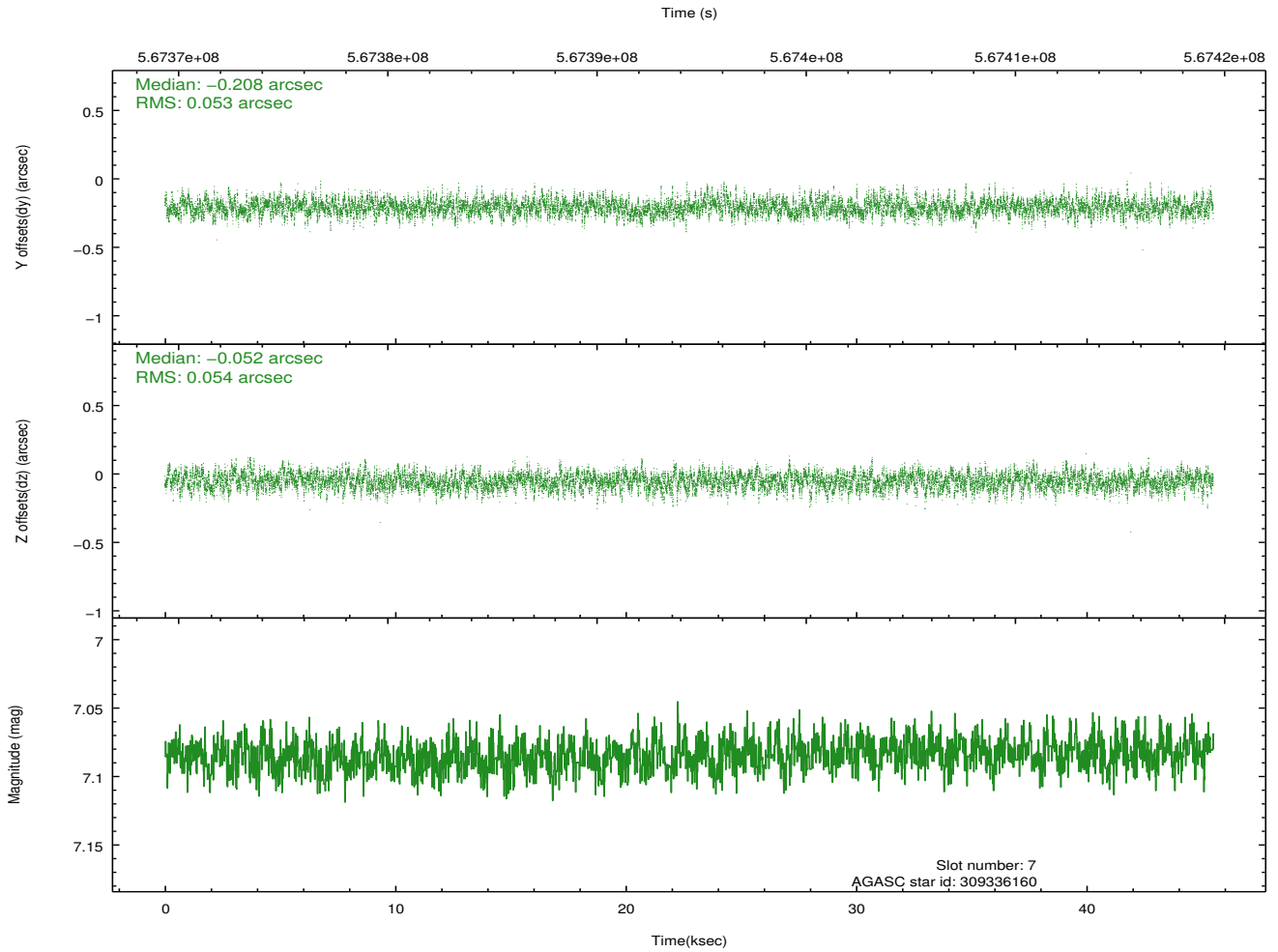
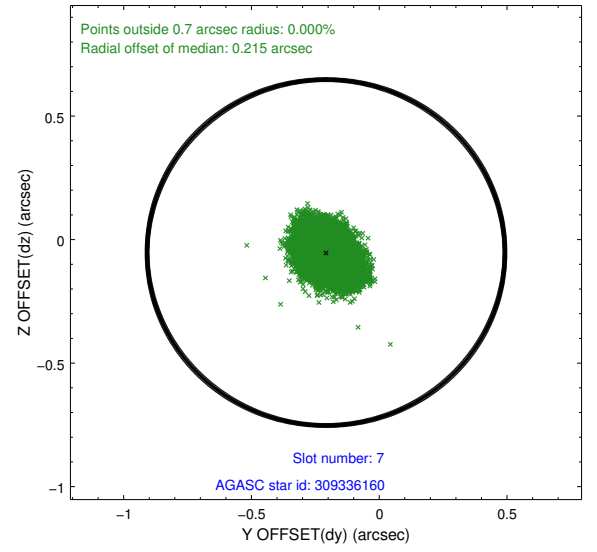
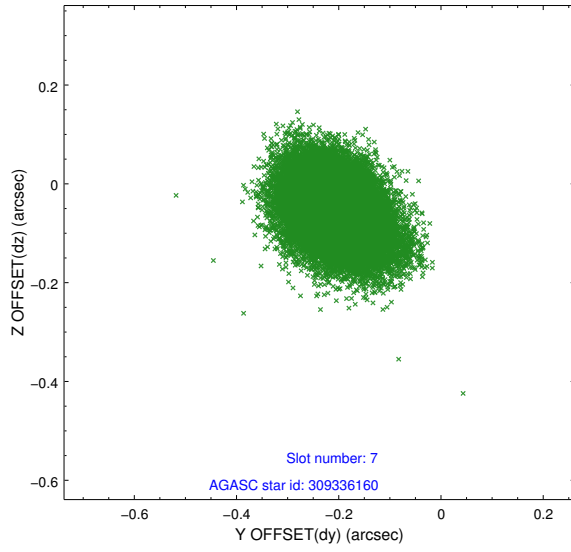
2.4.3 Slot 5



2.4.4 Slot 6

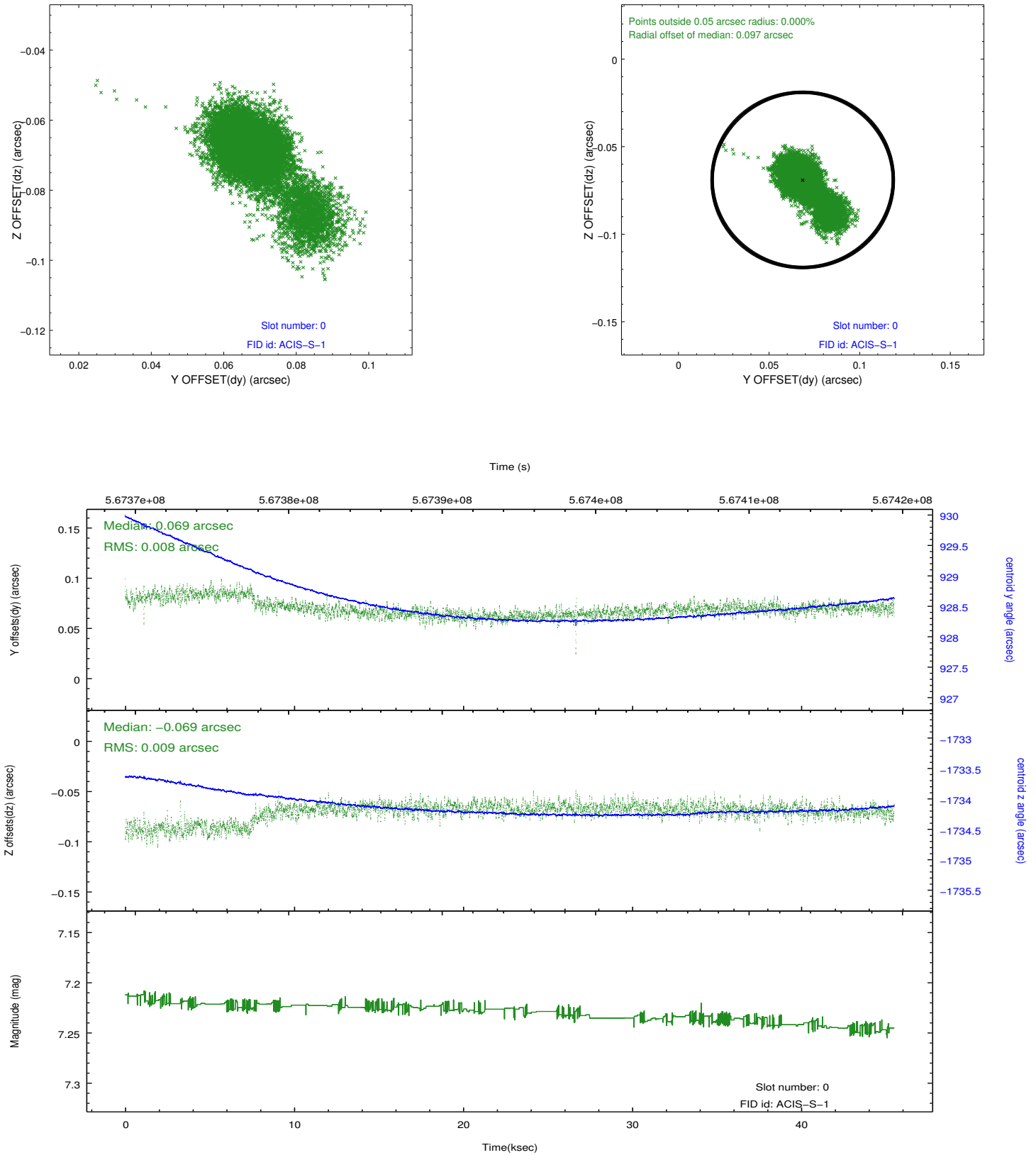


2.4.5 Slot 7

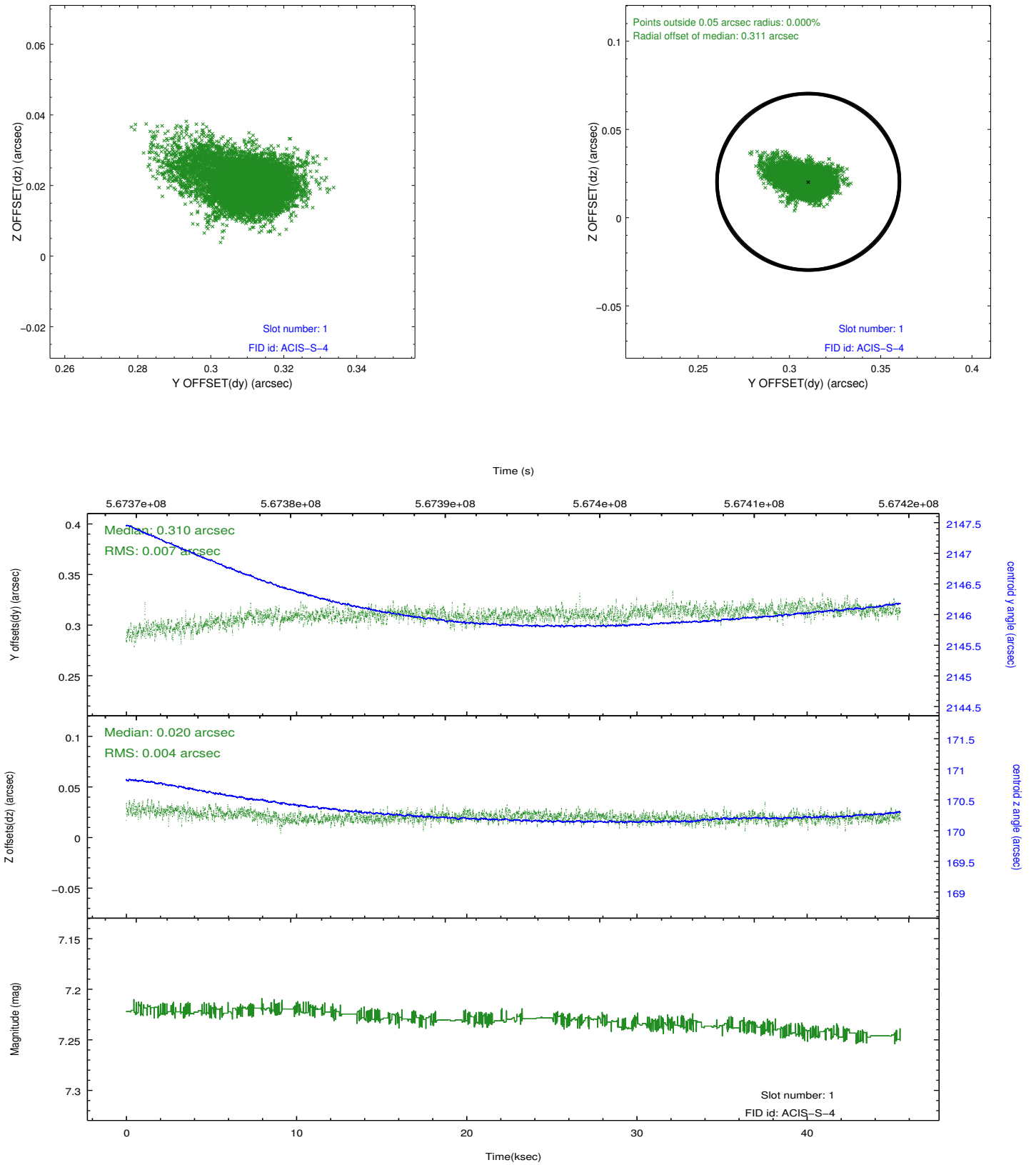


2.5 FID Slots

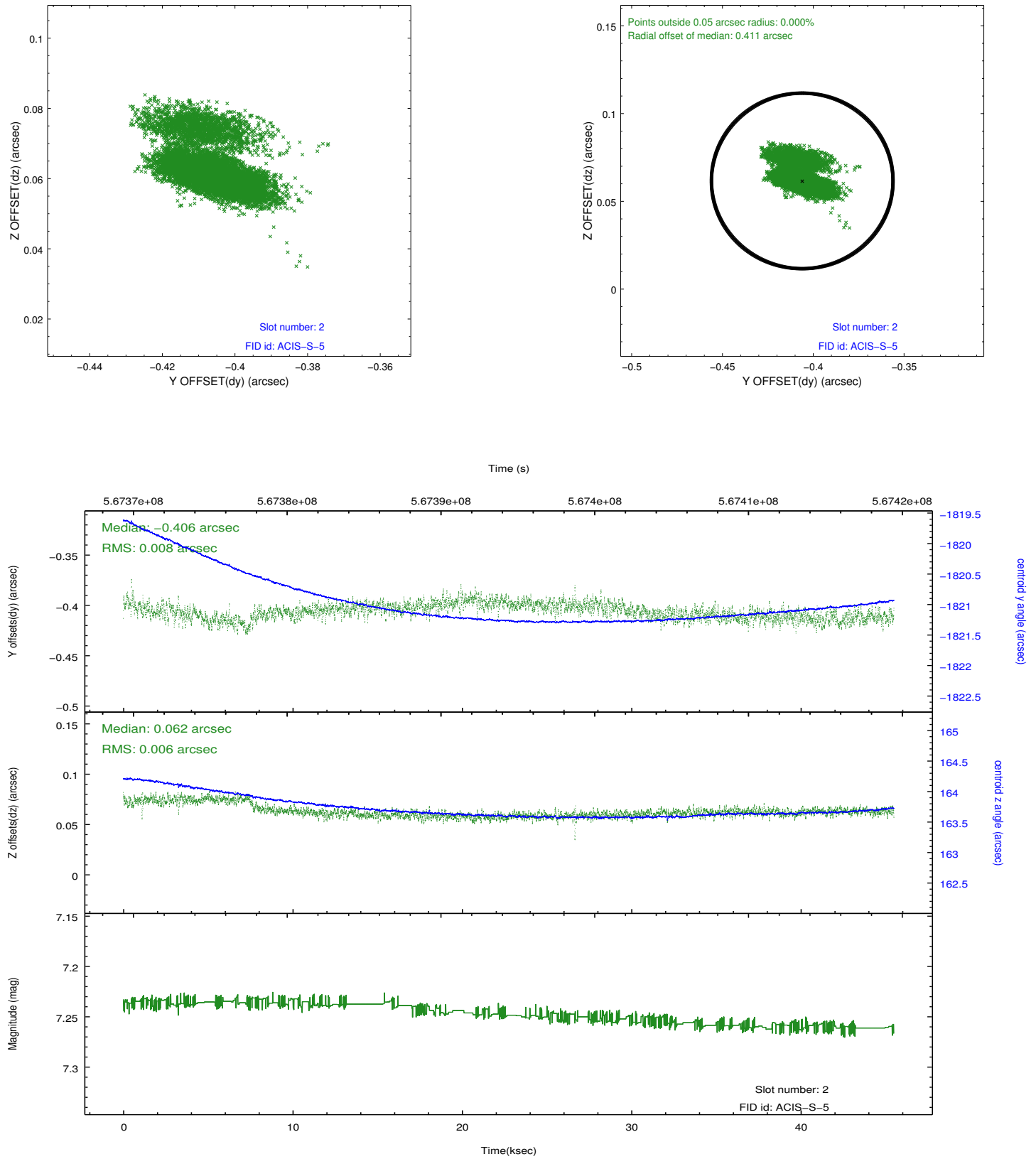
2.5.1 Slot 0



2.5.2 Slot 1

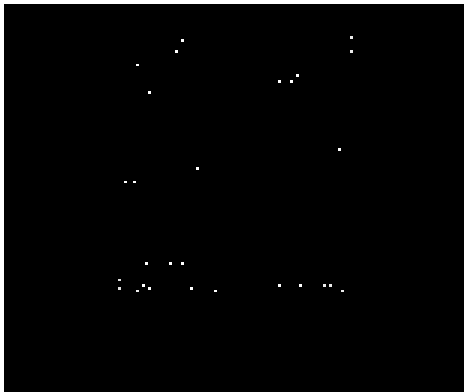


2.5.3 Slot 2

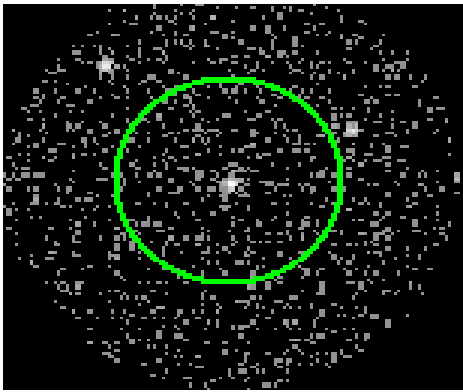


3 Gratings

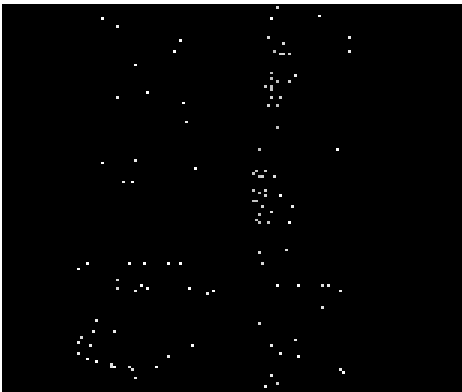
3.1 HEG Arm



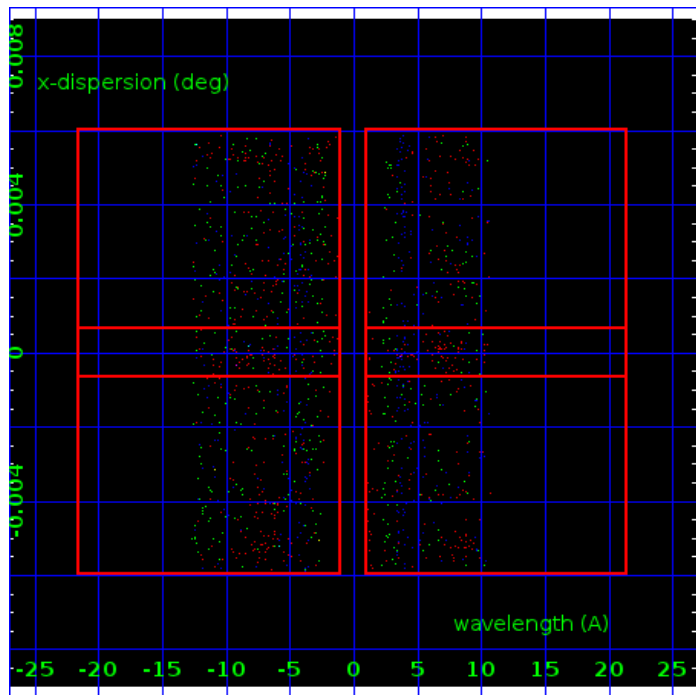
HEG Order Sort 123



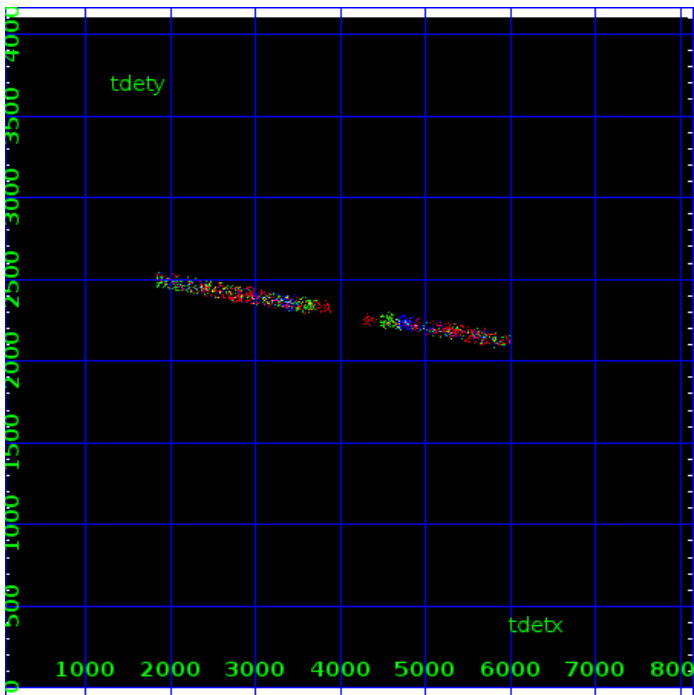
HEG Zero Order



HEG Order Sort ALL

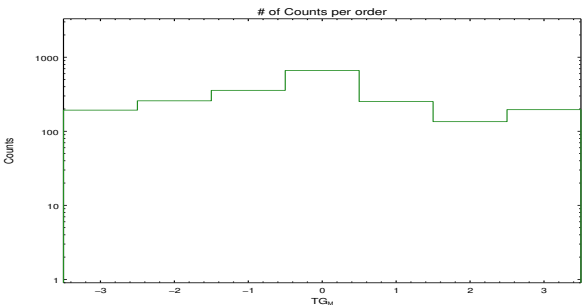


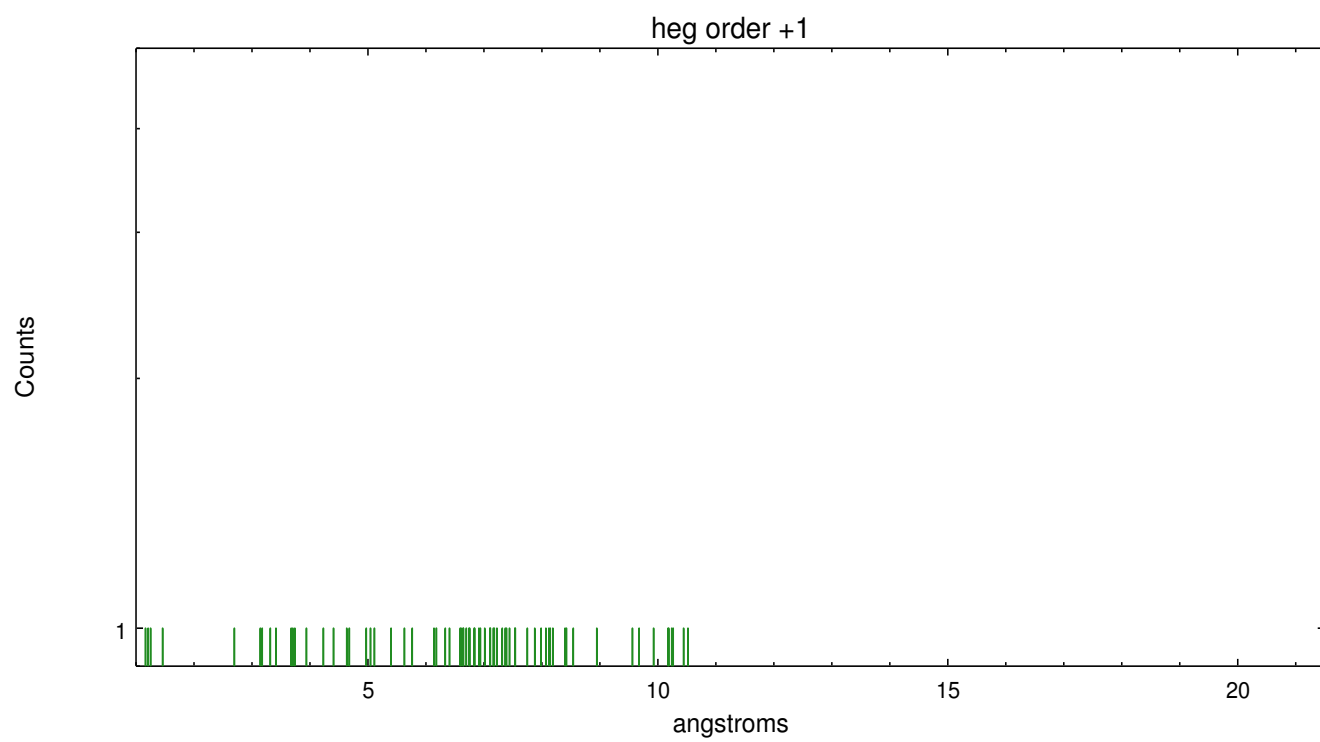
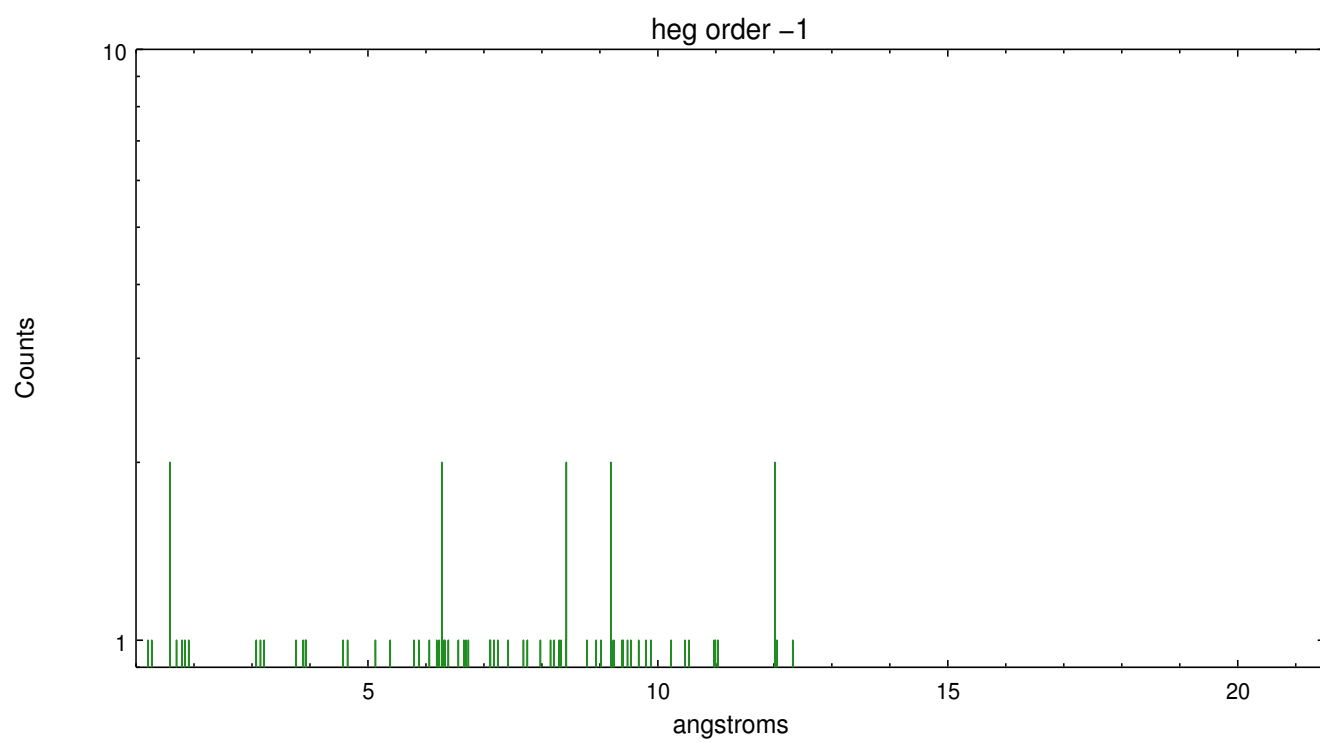
Spot Image HEG



Full Detector HEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	193	258	357	661	252	135	196

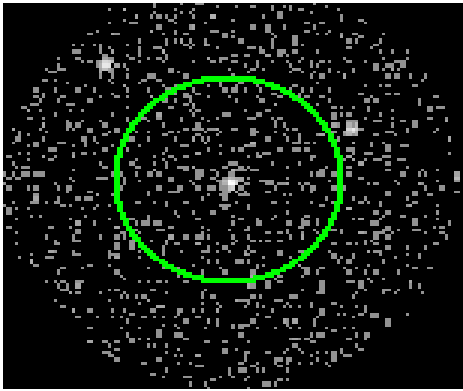




3.2 MEG Arm



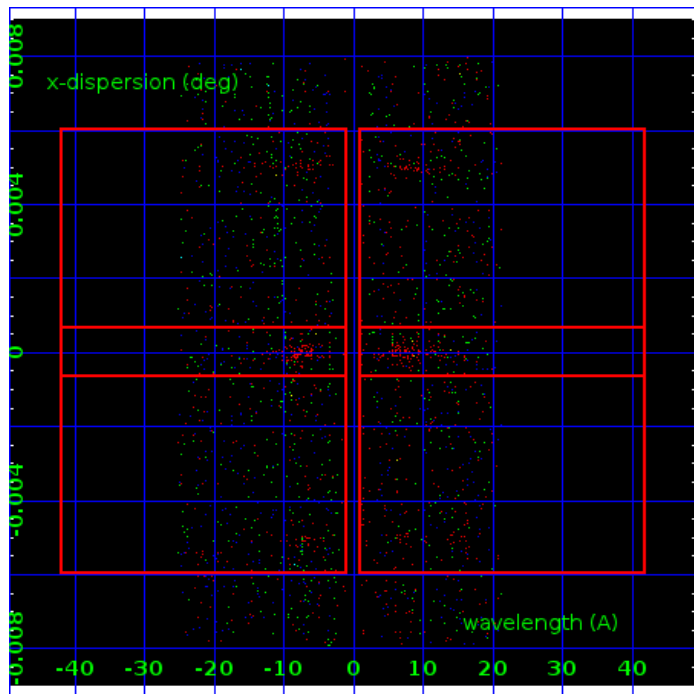
MEG Order Sort 123



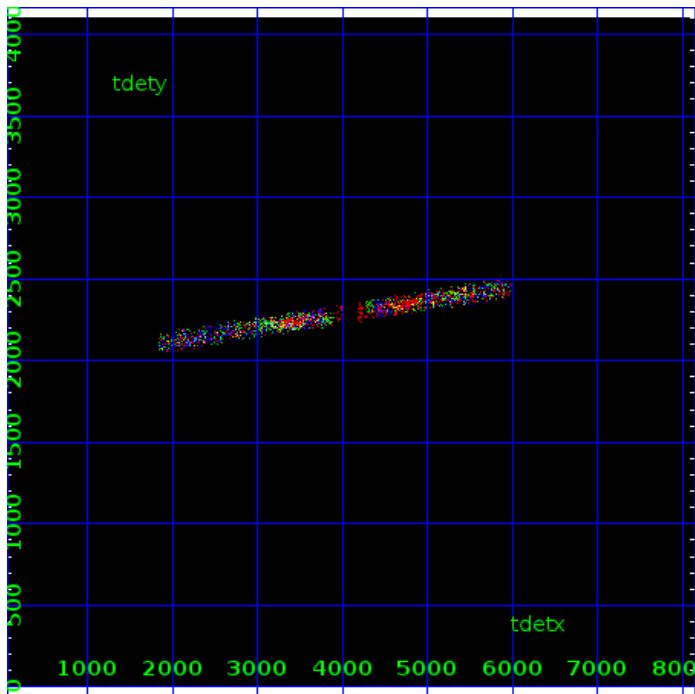
MEG Zero Order



MEG Order Sort ALL

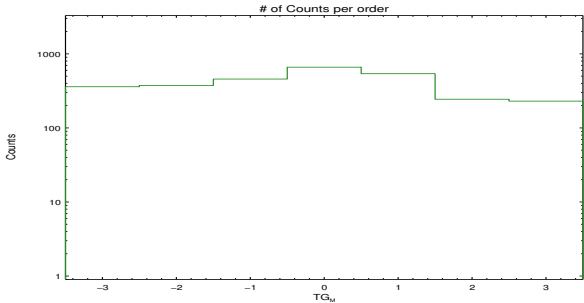


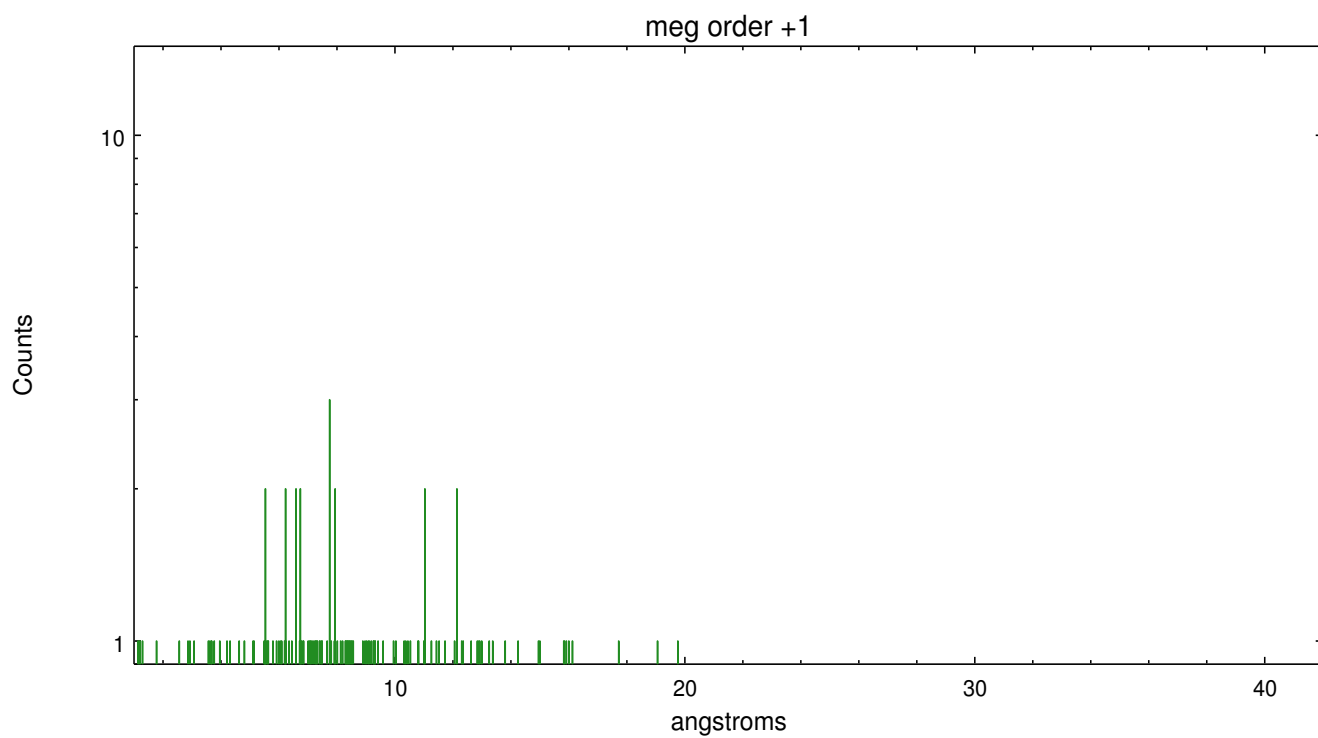
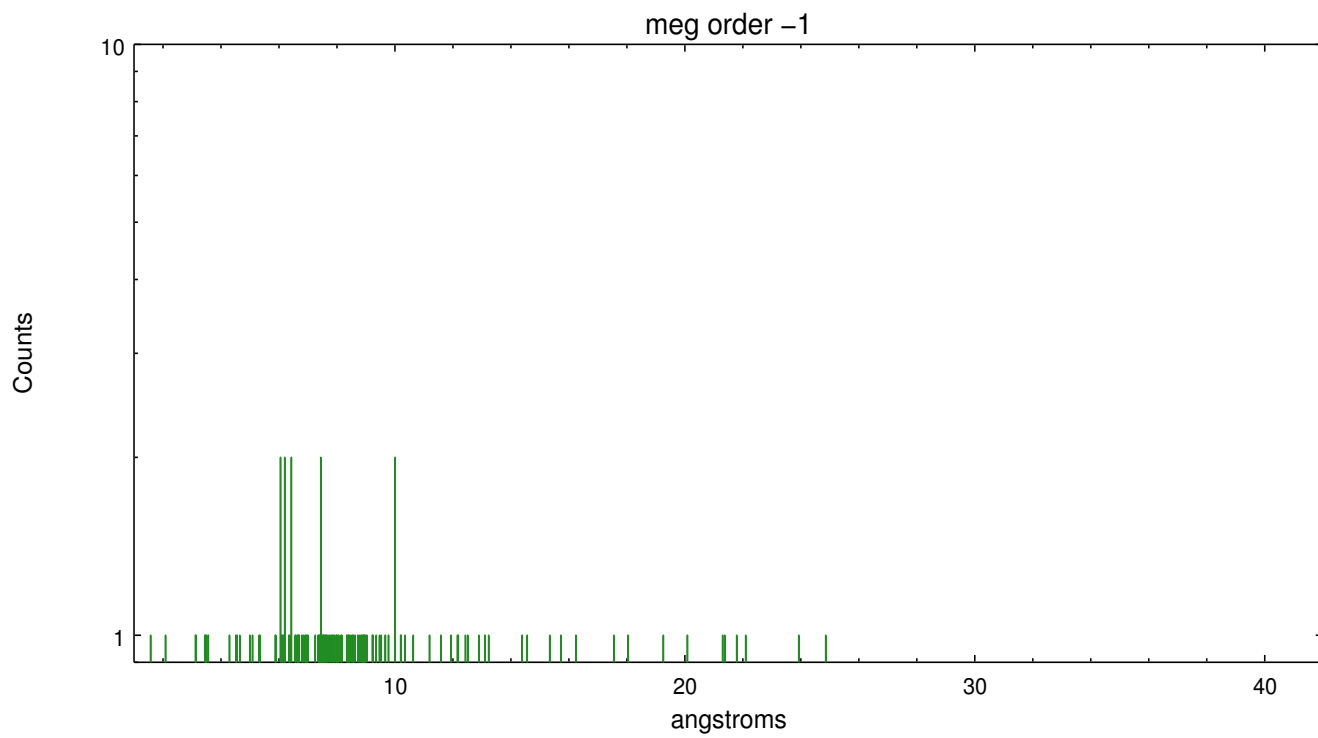
Spot Image MEG



Full Detector MEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	360	374	457	661	540	244	230





A Summary

A.1 Status

V&V Scientist	David Huenemoerder
V&V Date (YYYY-MM-DD)	2015.12.29
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	44.547000342727

A.2 Comments

Spectral extraction was centered on V914 Per (as were other observations in this sequence).