

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 2690 - L2 Version 3
Chandra X-Ray Center

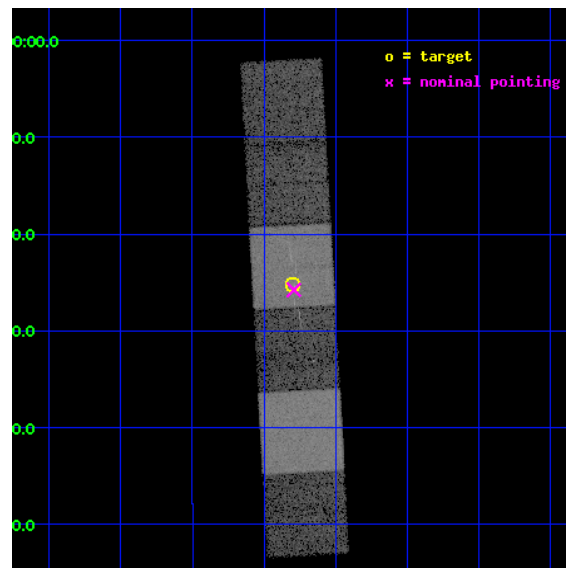
L2 Processing Date : Oct 14 2012

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1 Front

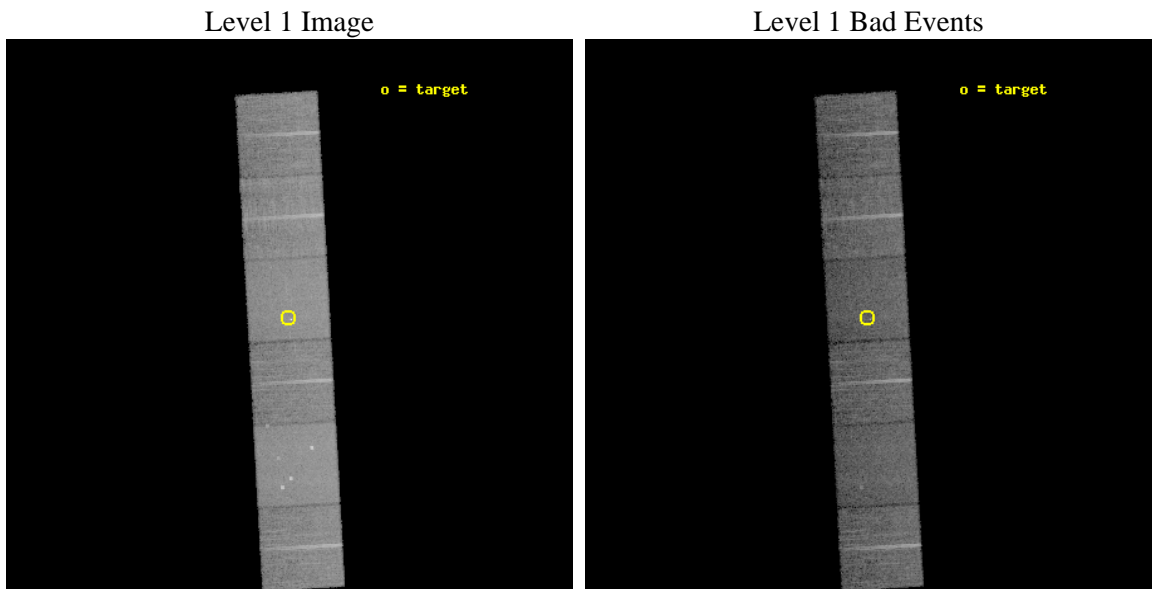
seq_num	400170	Sequence number
obs_id	2690	Observation id
title	OBSERVATIONS OF THE TRANSIENT X-RAY PULSAR 2S 1845-024	Proposal ti
observer	Dr. Mark Finger	Principal investigator
object	2S 1845-024	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	282.075	Observer's specified target RA [deg]
dec_targ	-2.42	Observer's specified target Dec [deg]
ra_nom	282.07274789502	Nominal RA [deg]
dec_nom	-2.42942269056	Nominal Dec [deg]
roll_nom	266.76873336754	Nominal Roll [deg]
revision	3	Processing version of data
ontime	15091.199943781	Sum of GTIs [s]
livetime	14900.106083263	Livetime [s]
ontime4	15091.199943781	Sum of GTIs [s]
ontime5	15091.199943781	Sum of GTIs [s]
ontime6	15091.199943781	Sum of GTIs [s]
ontime7	15091.199943781	Sum of GTIs [s]
ontime8	15091.199943781	Sum of GTIs [s]
ontime9	15091.199943781	Sum of GTIs [s]
l2events	148007	Number of level 2 events



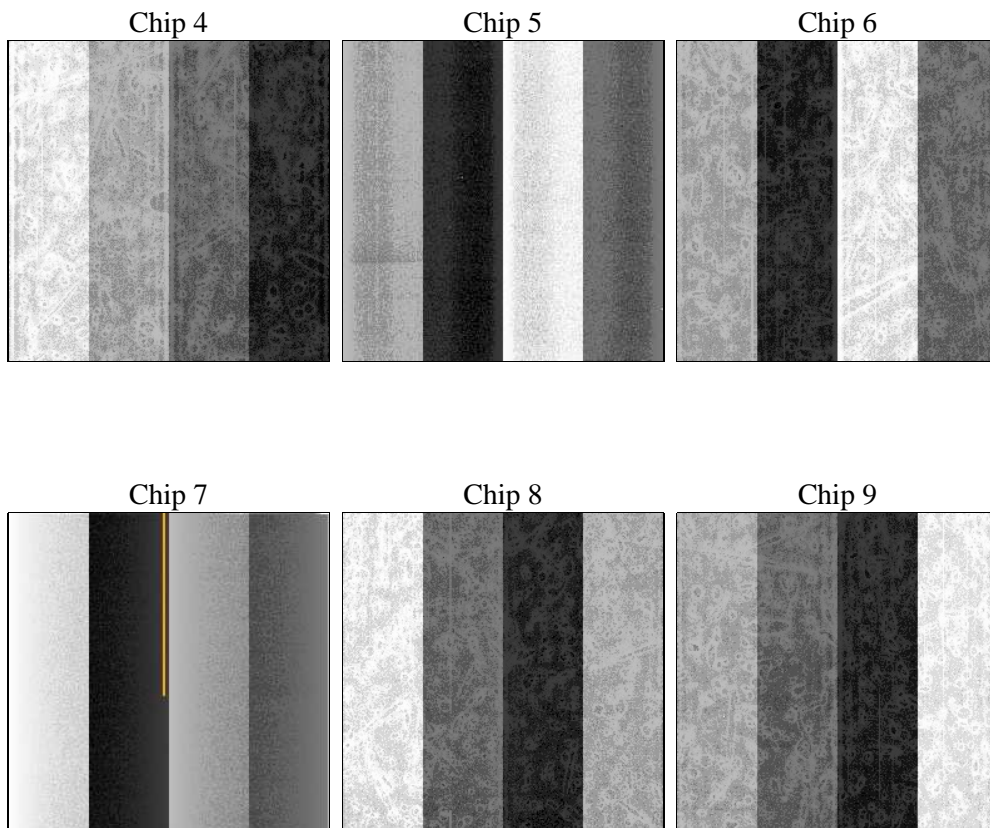
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	14925.026000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	15091.199943781	Sum of GTIs [s]
caldsver	4.5.2	 	ontime4	15091.199943781	Sum of GTIs [s]
date	2012-10-14T18:08:25	Date and time of file creation	ontime5	15091.199943781	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	15091.199943781	Sum of GTIs [s]
			ontime7	15091.199943781	Sum of GTIs [s]
			ontime8	15091.199943781	Sum of GTIs [s]
			ontime9	15091.199943781	Sum of GTIs [s]
			l1events	724227	Number of level 1 events

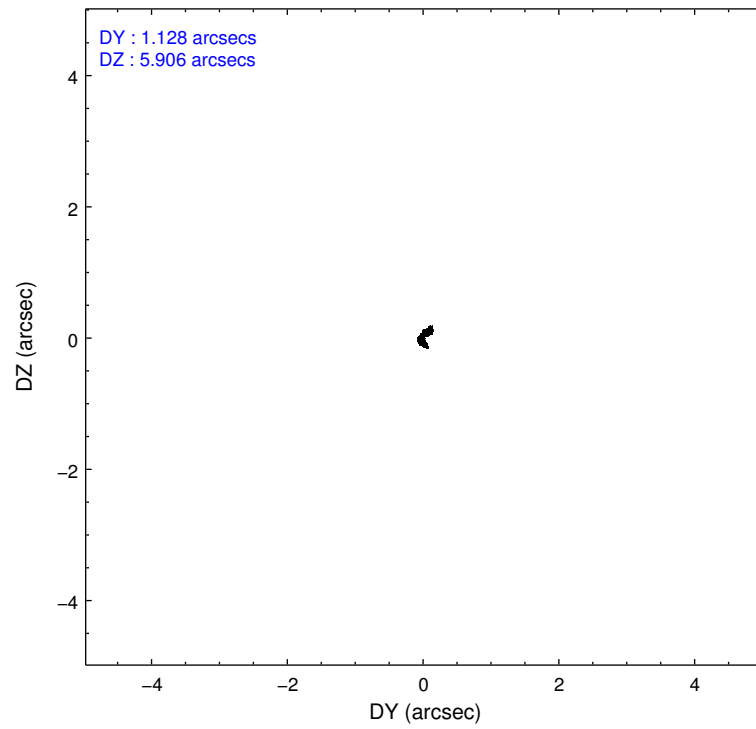
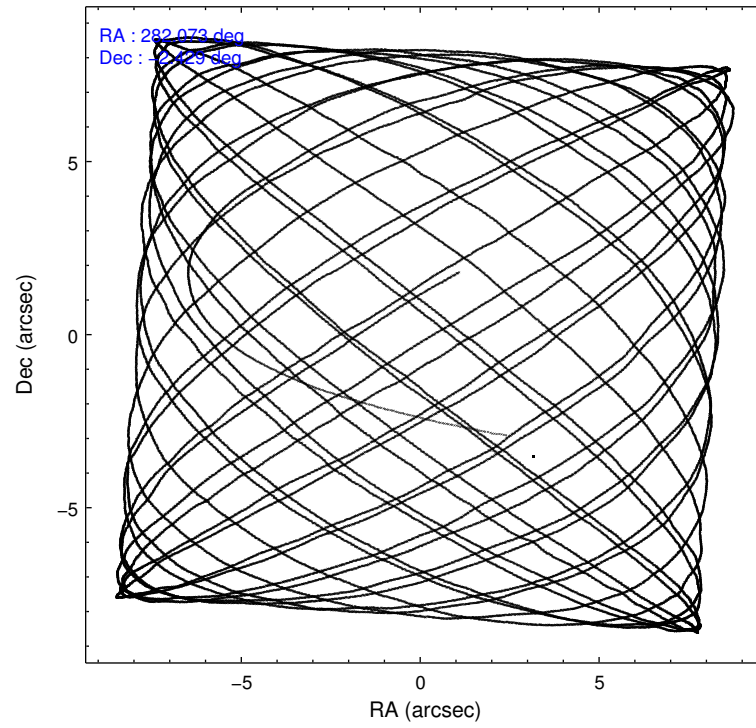
2.1.4 Events

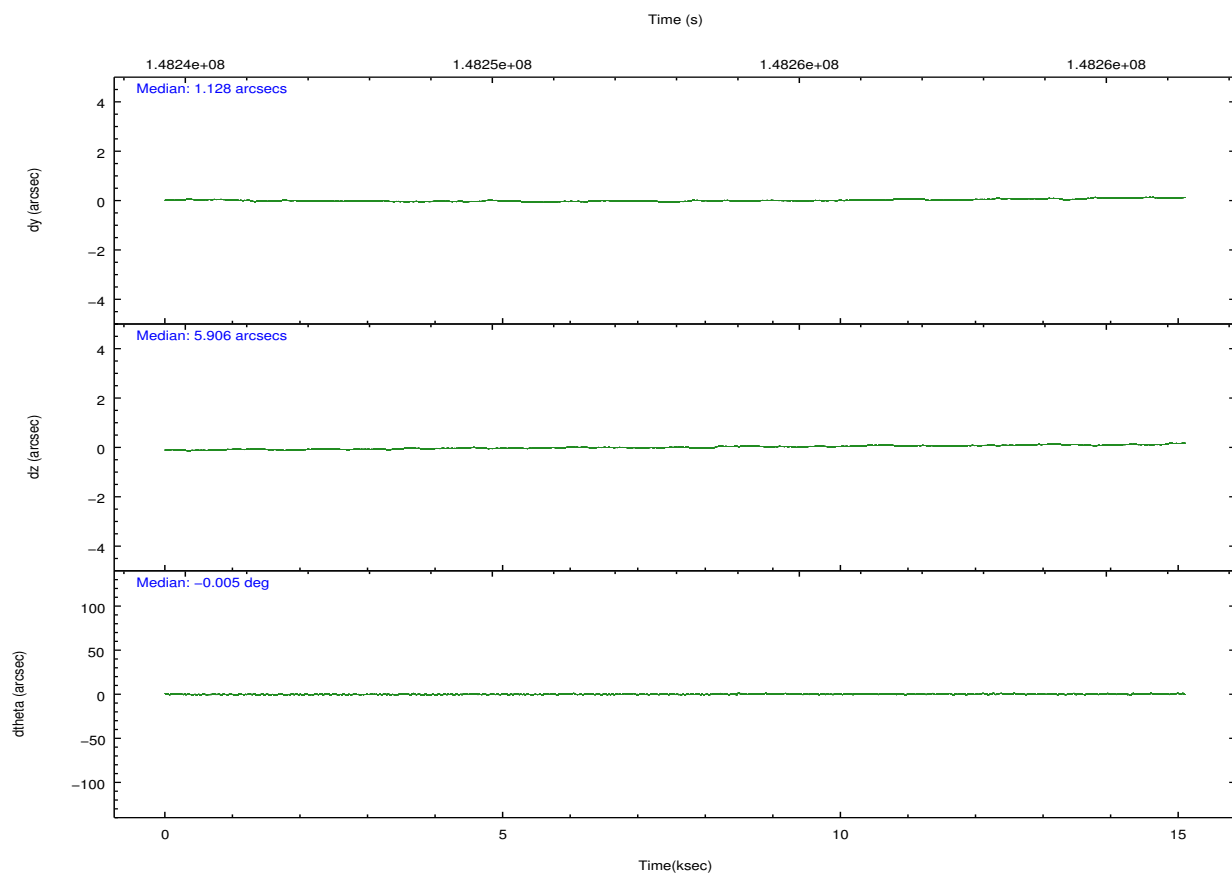
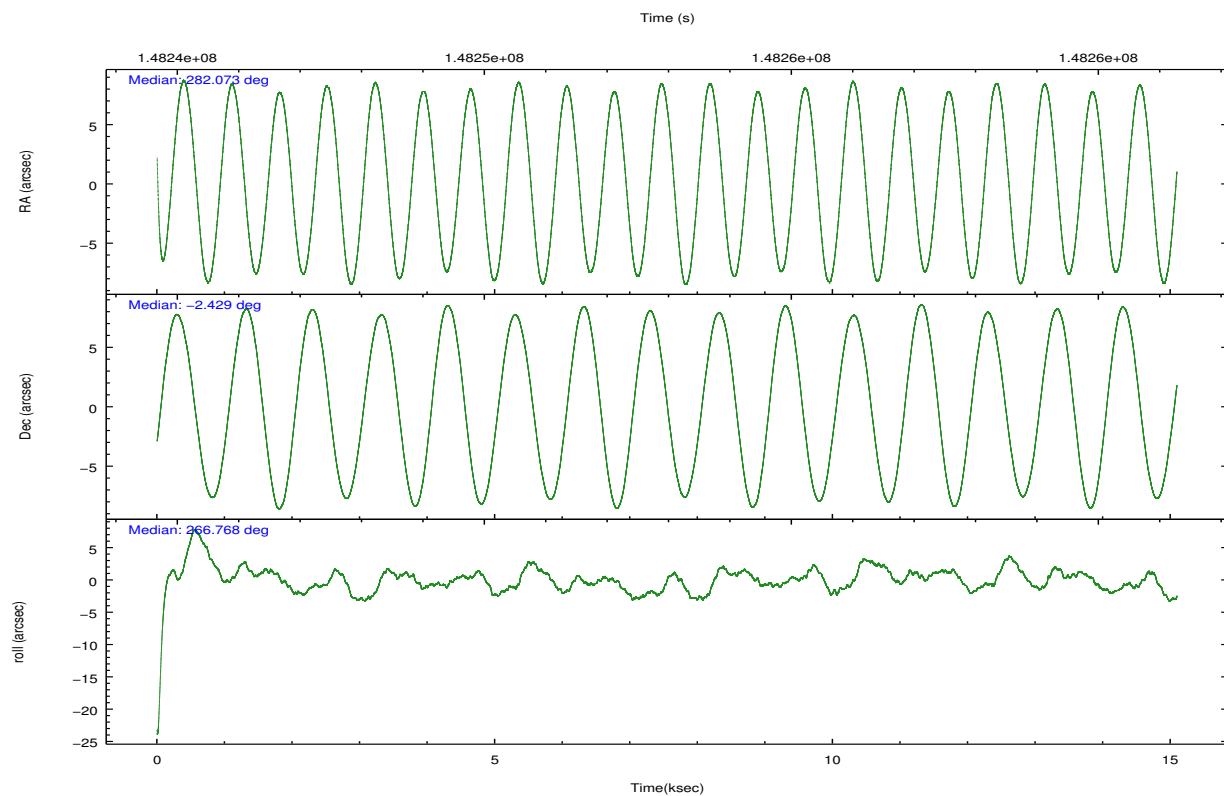
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	111968	147412	104444	133731	126103	100569	grade 0 events	5495	8841	4987	5488	8362	5146
rejected events	100594	84882	93095	81302	102533	89163		4%	5%	4%	4%	6%	5%
rejected %	89%	57%	89%	60%	81%	88%	grade 1 events	88	386	50	150	91	57
								0%	0%	0%	0%	0%	0%
							grade 2 events	2608	18939	2382	11460	5674	2370
								2%	12%	2%	8%	4%	2%
							grade 3 events	1202	2865	1250	5105	2752	1206
								1%	1%	1%	3%	2%	1%
							grade 4 events	1190	2778	1264	5035	2560	1267
								1%	1%	1%	3%	2%	1%
							grade 5 events	4199	11065	4506	12758	5827	4845
								3%	7%	4%	9%	4%	4%
							grade 6 events	1893	34878	2422	29867	6441	2504
								1%	23%	2%	22%	5%	2%
							grade 7 events	95293	67660	87583	63868	94396	83174
								85%	45%	83%	47%	74%	82%

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	282.060166	282.0727478950175	Subarray requested	NONE	NONE
[deg] Pointing Dec	-2.405265	-2.429422690559957	Alternating exposures requested	N	N
[deg] Pointing Roll	266.611591	266.7687333675364	[s] Primary exposure time	0.000000	3.2
[s] Window start time (MET)	147972664.184000	147972664.184000			
[s] Window stop time (MET)	148318264.184000	148318264.184000			
[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)	148245600.184000	148243874.53389			
Observation start date	2002-09-12T19:18:56	2002-09-12T18:51:14			
[s] Observation end time (MET)	148260525.184000	148260839.30959			
Observation end date	2002-09-12T23:27:41	2002-09-12T23:33:59			
Read mode	TIMED	TIMED			

2.3 Aspect



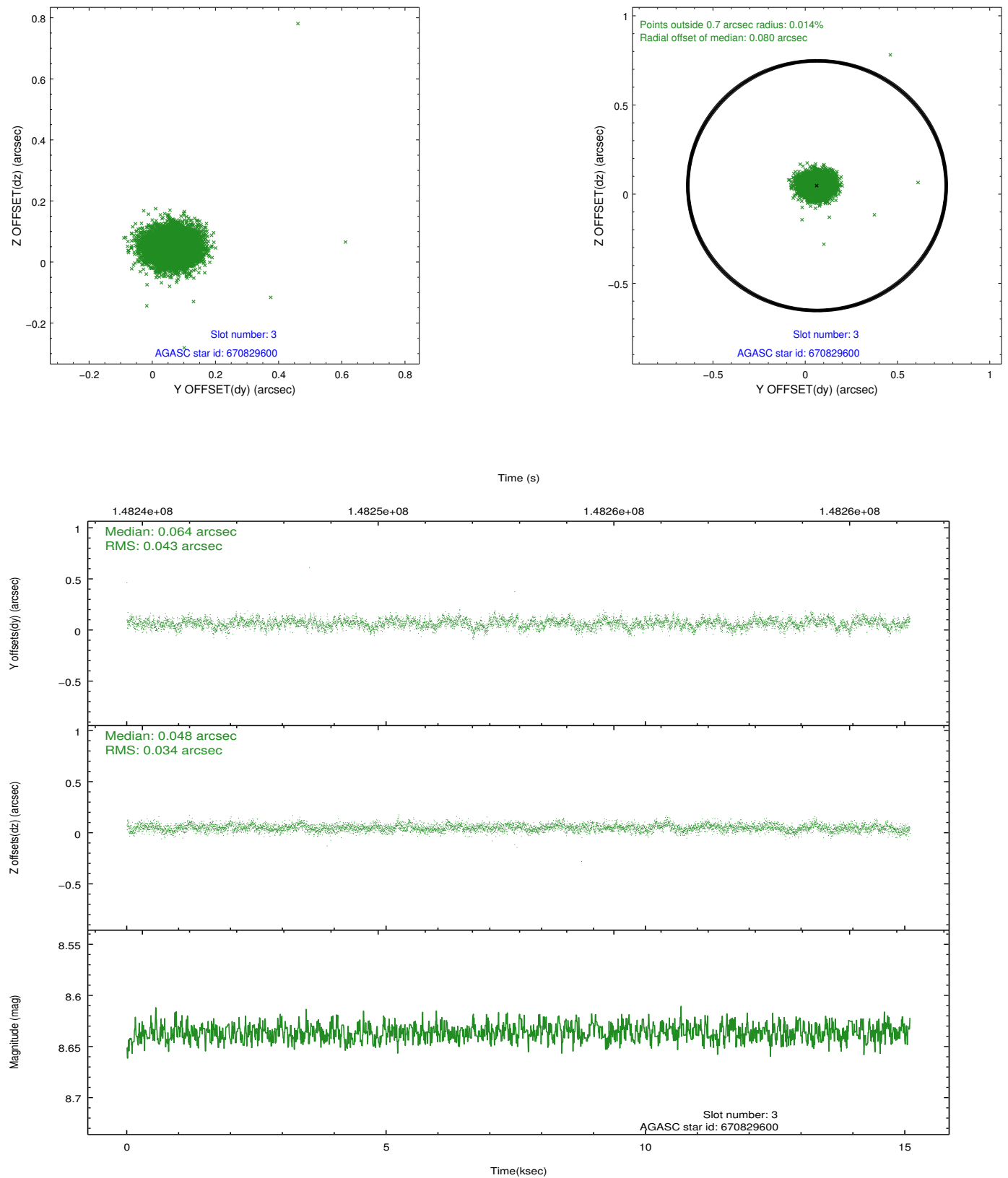


Slot Statistics

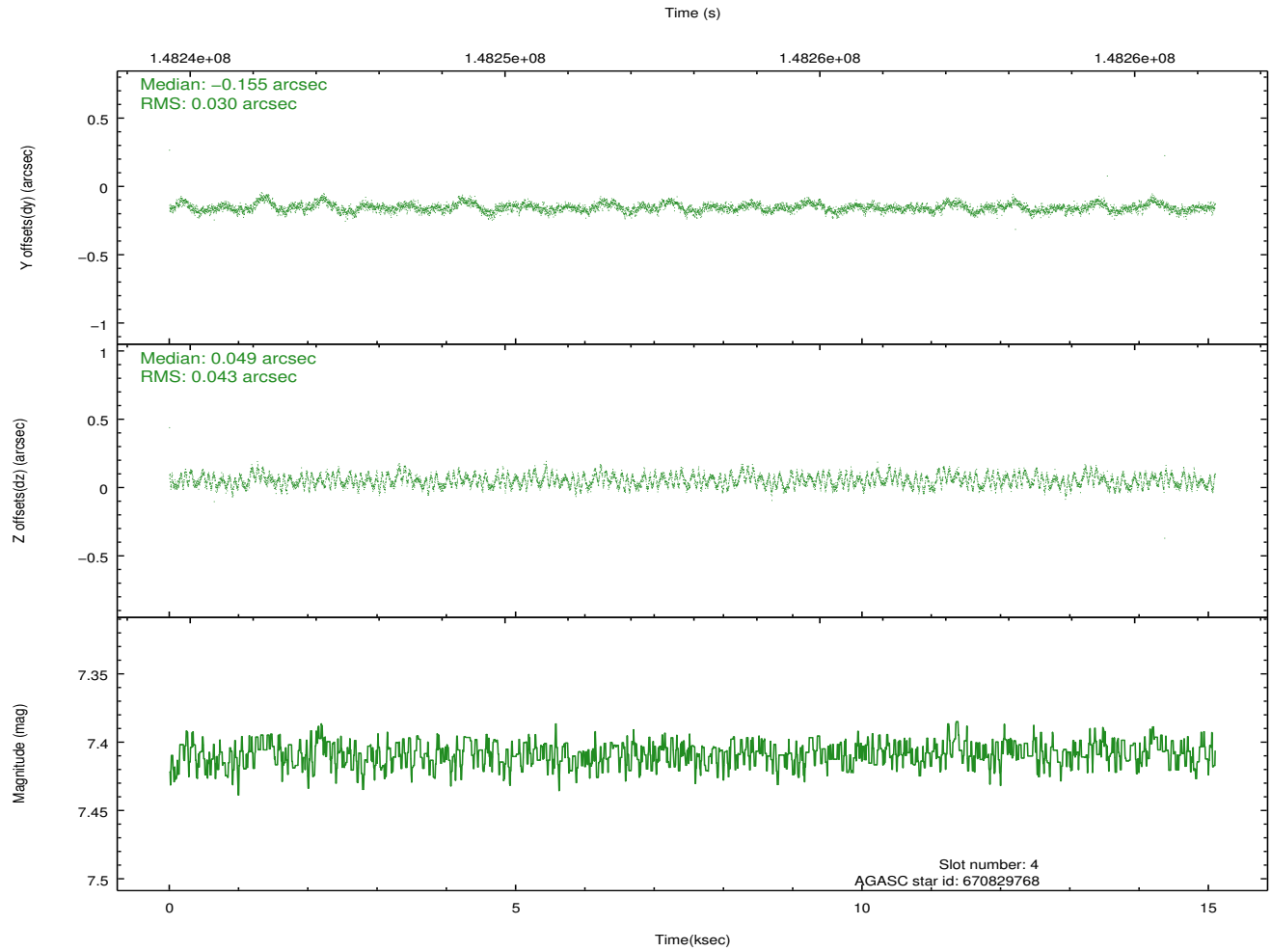
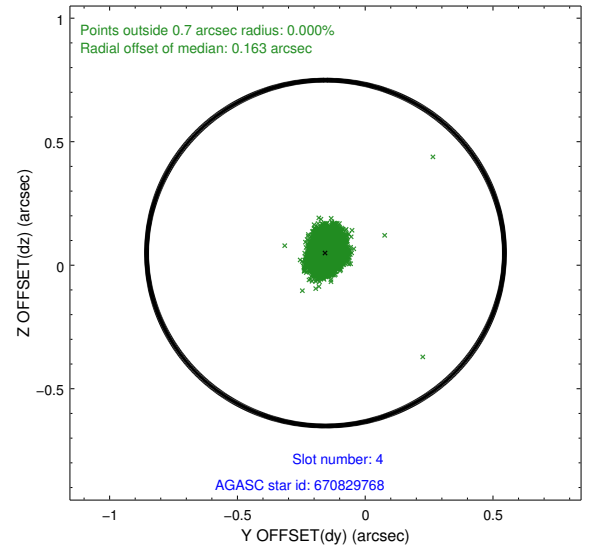
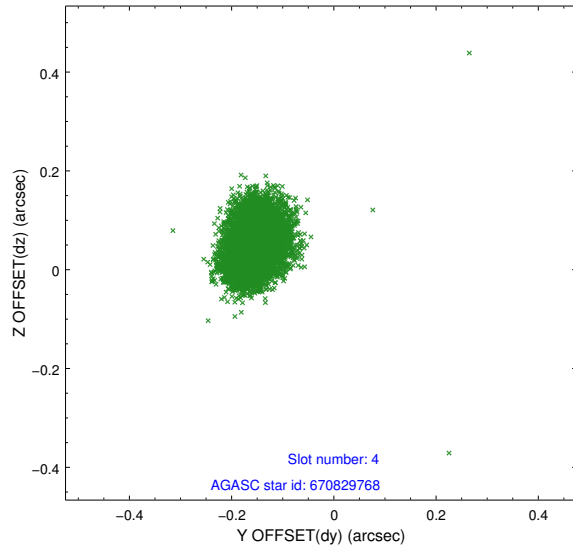
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	3681	-0.057	0.006	0.007	0.011	0.000000	0.000000	-753.75	-1727.06
1	FID	ACIS-S-4	7.21	3682	0.010	0.026	0.006	0.011	0.000000	0.000000	2159.42	181.20
2	FID	ACIS-S-5	7.24	3682	0.016	-0.023	0.006	0.011	0.000000	0.000000	-1806.17	175.07
3	GUIDE	670829600	8.64	7362	0.064	0.048	0.057	0.093	282.227270	-3.031765	2217.18	733.87
4	GUIDE	670829768	7.41	7364	-0.155	0.049	0.055	0.088	281.927934	-2.010470	-1389.37	-558.02
5	GUIDE	670827848	9.71	7355	0.112	0.103	0.113	0.184	282.233886	-2.502228	312.63	645.18
6	GUIDE	670827744	9.52	7352	0.085	-0.148	0.086	0.142	281.699180	-2.020401	-1304.93	-1377.68
7	GUIDE	670827280	9.41	7358	-0.110	-0.052	0.116	0.175	281.434708	-1.976010	-1408.10	-2337.33

2.4 Star Slots

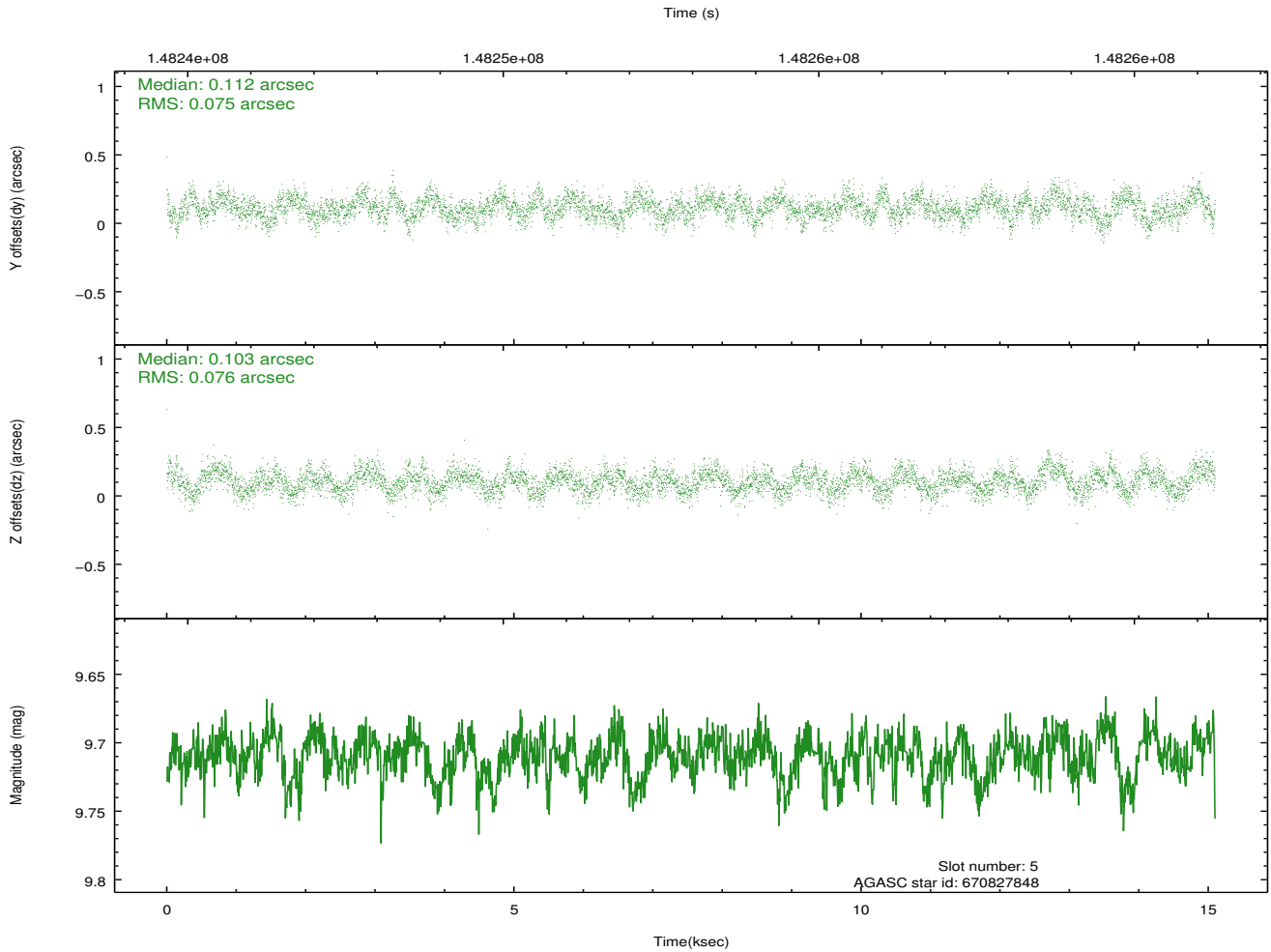
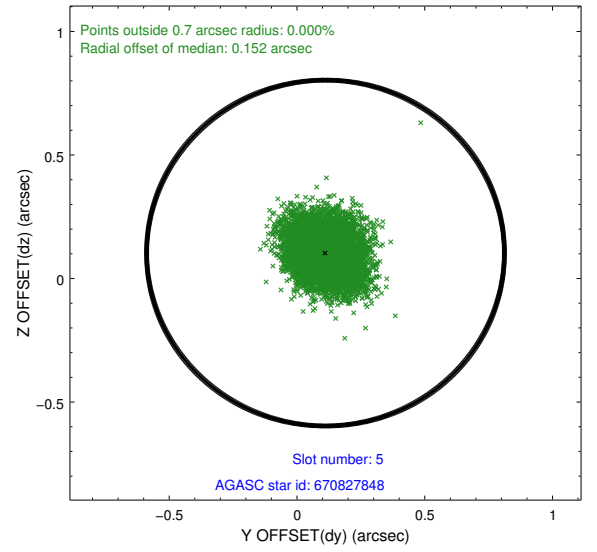
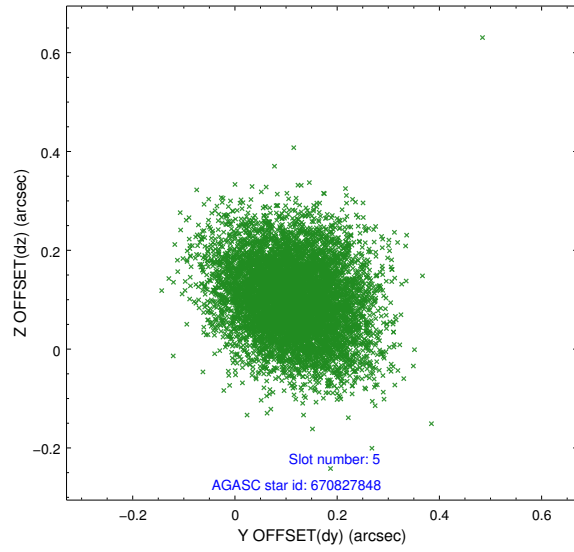
2.4.1 Slot 3



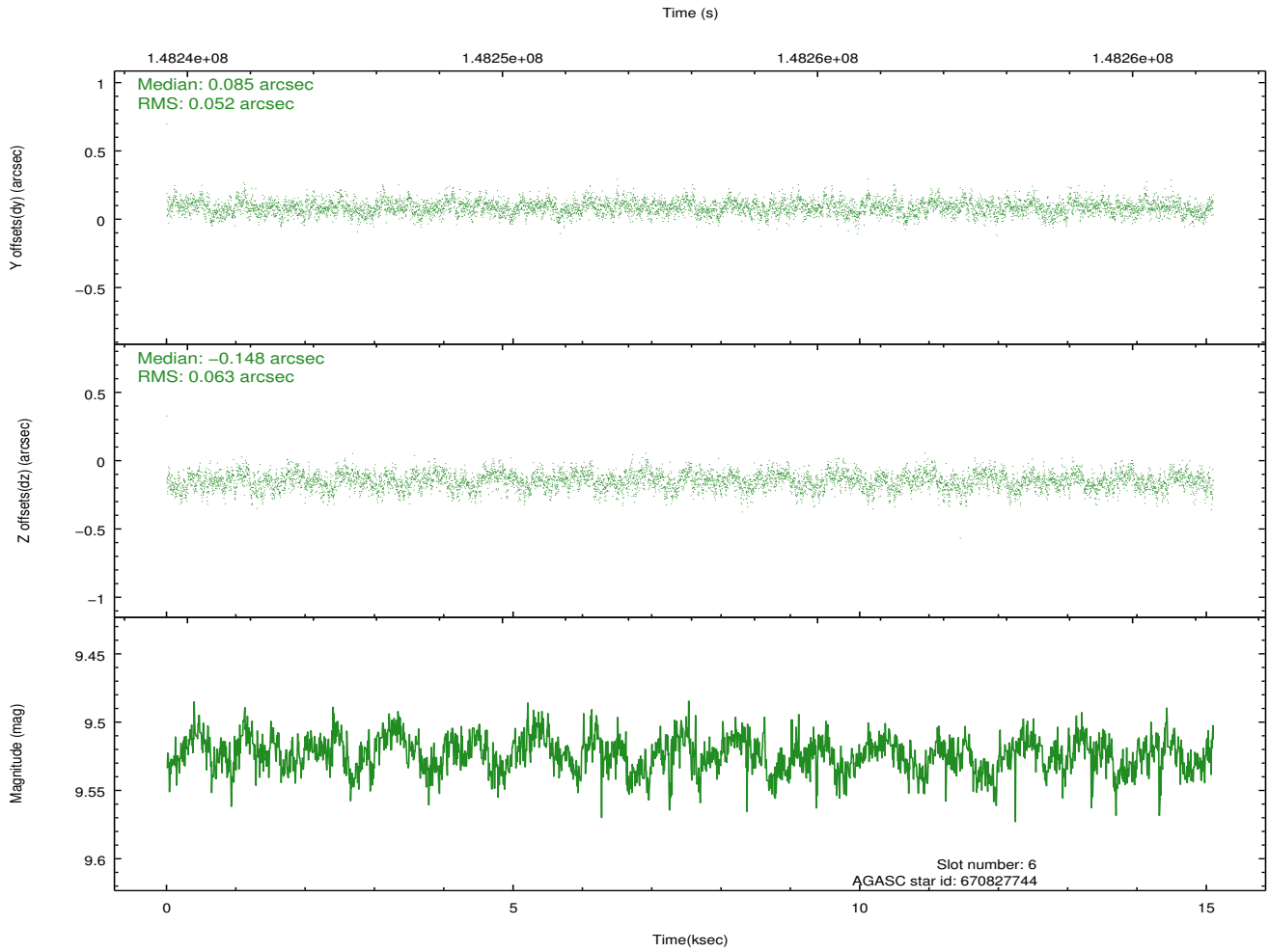
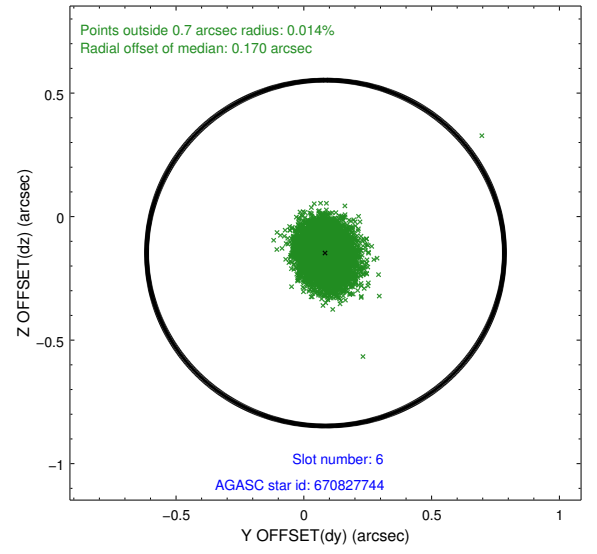
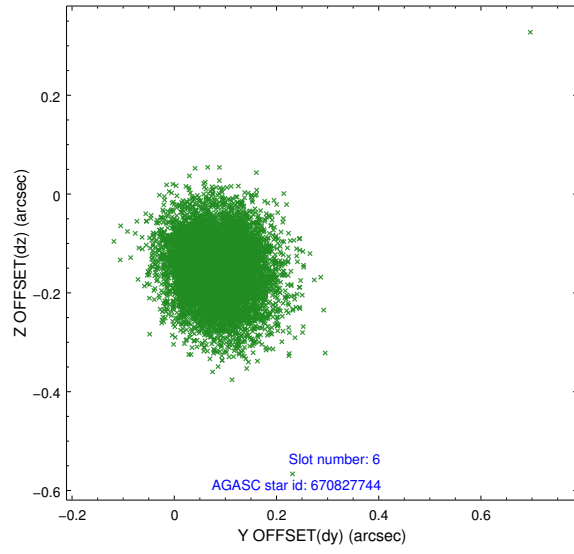
2.4.2 Slot 4



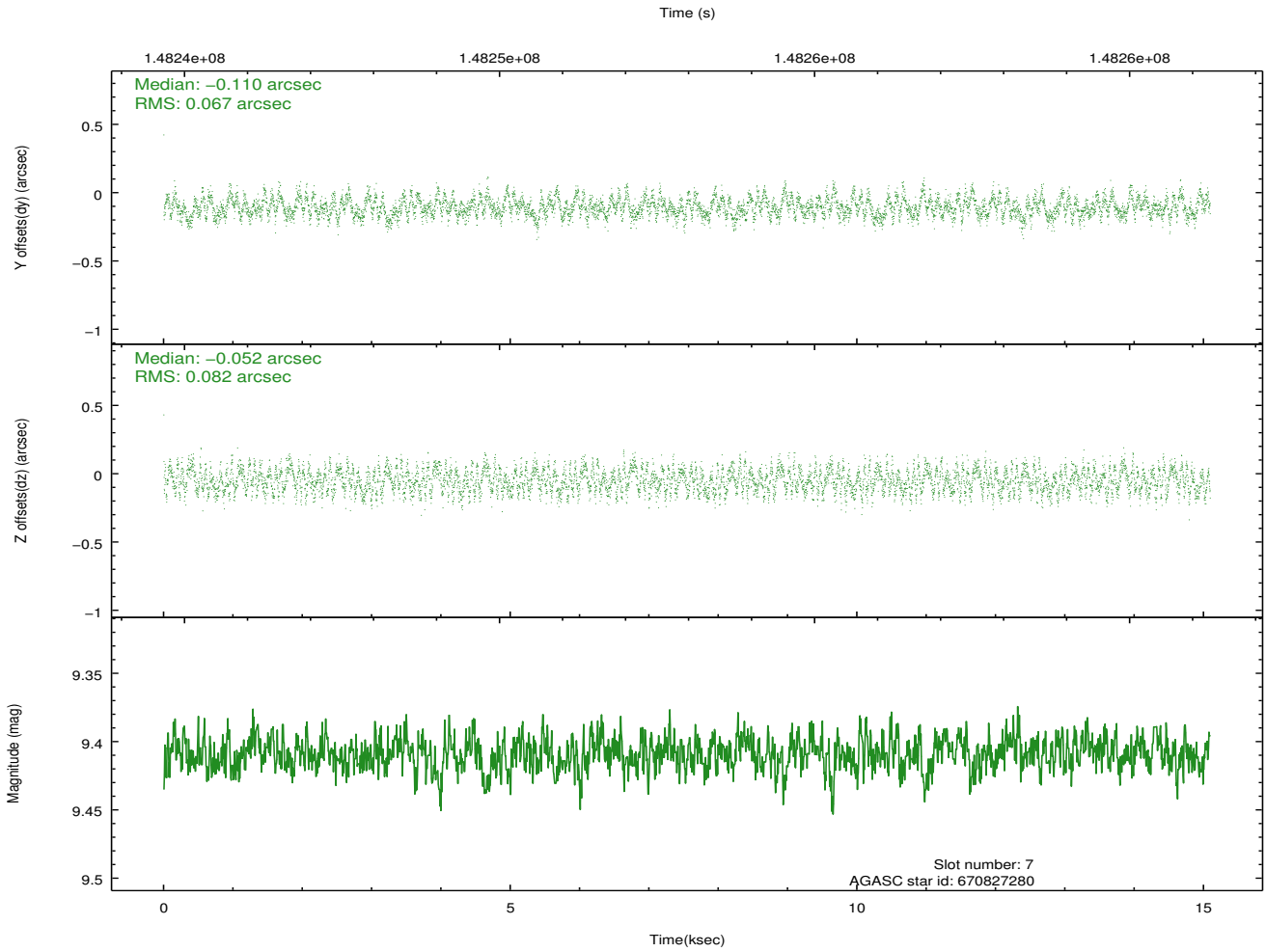
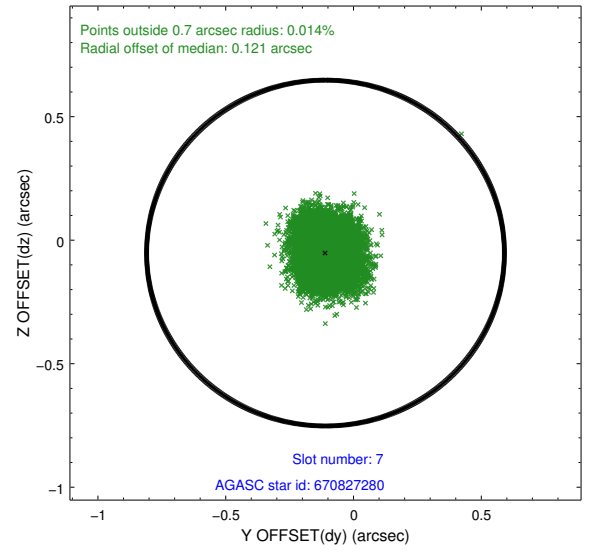
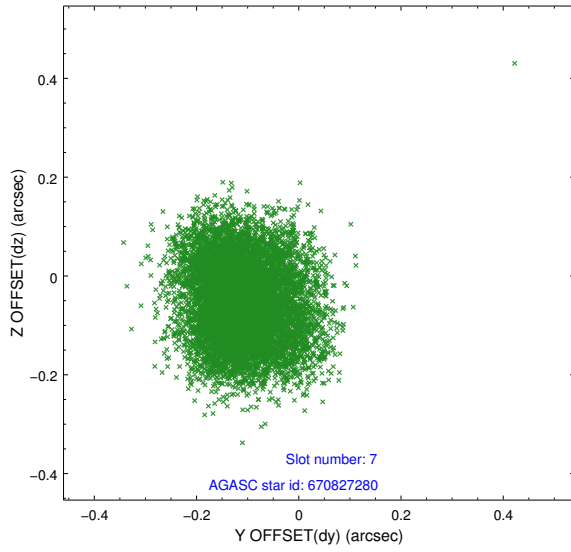
2.4.3 Slot 5



2.4.4 Slot 6

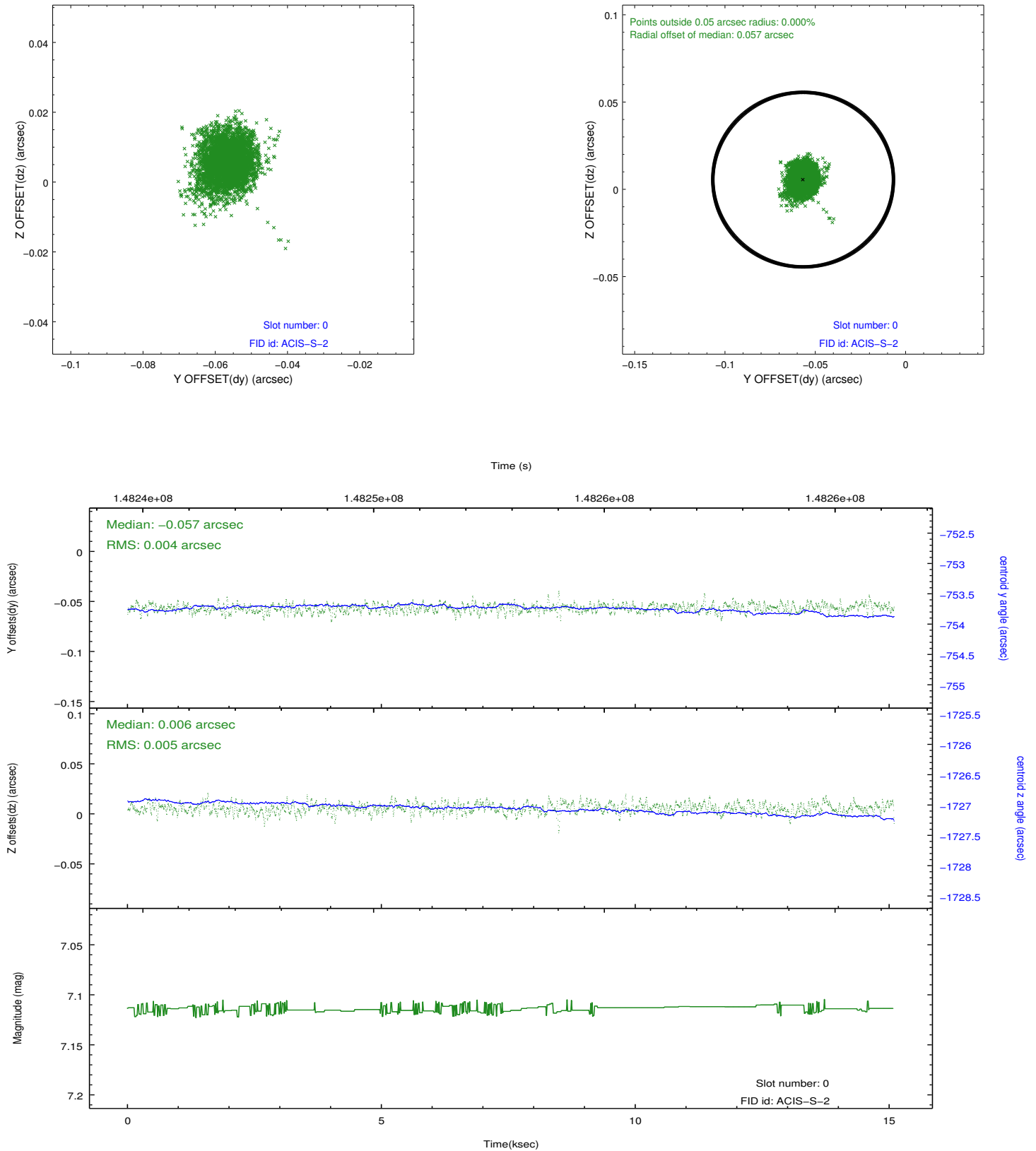


2.4.5 Slot 7

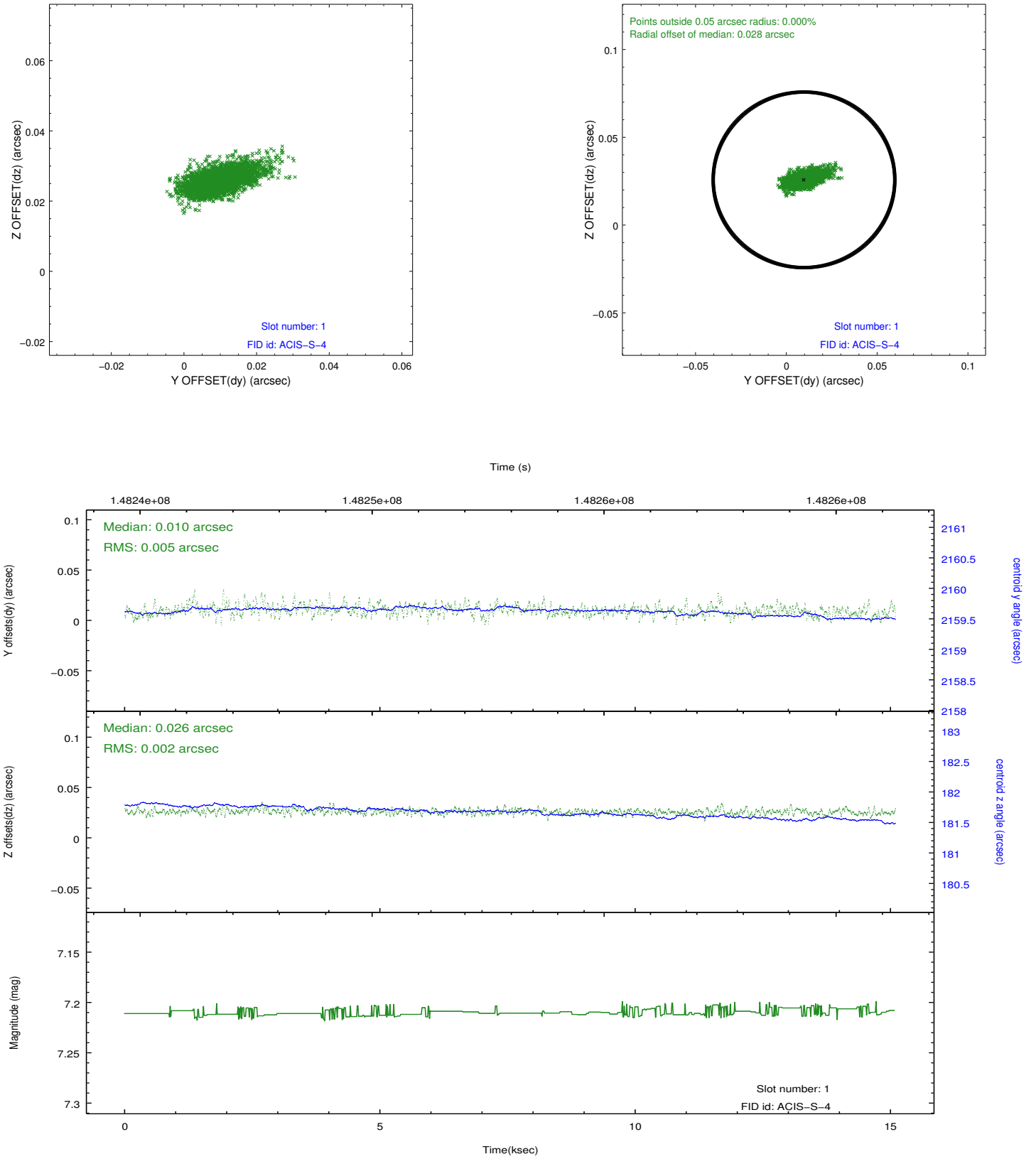


2.5 FID Slots

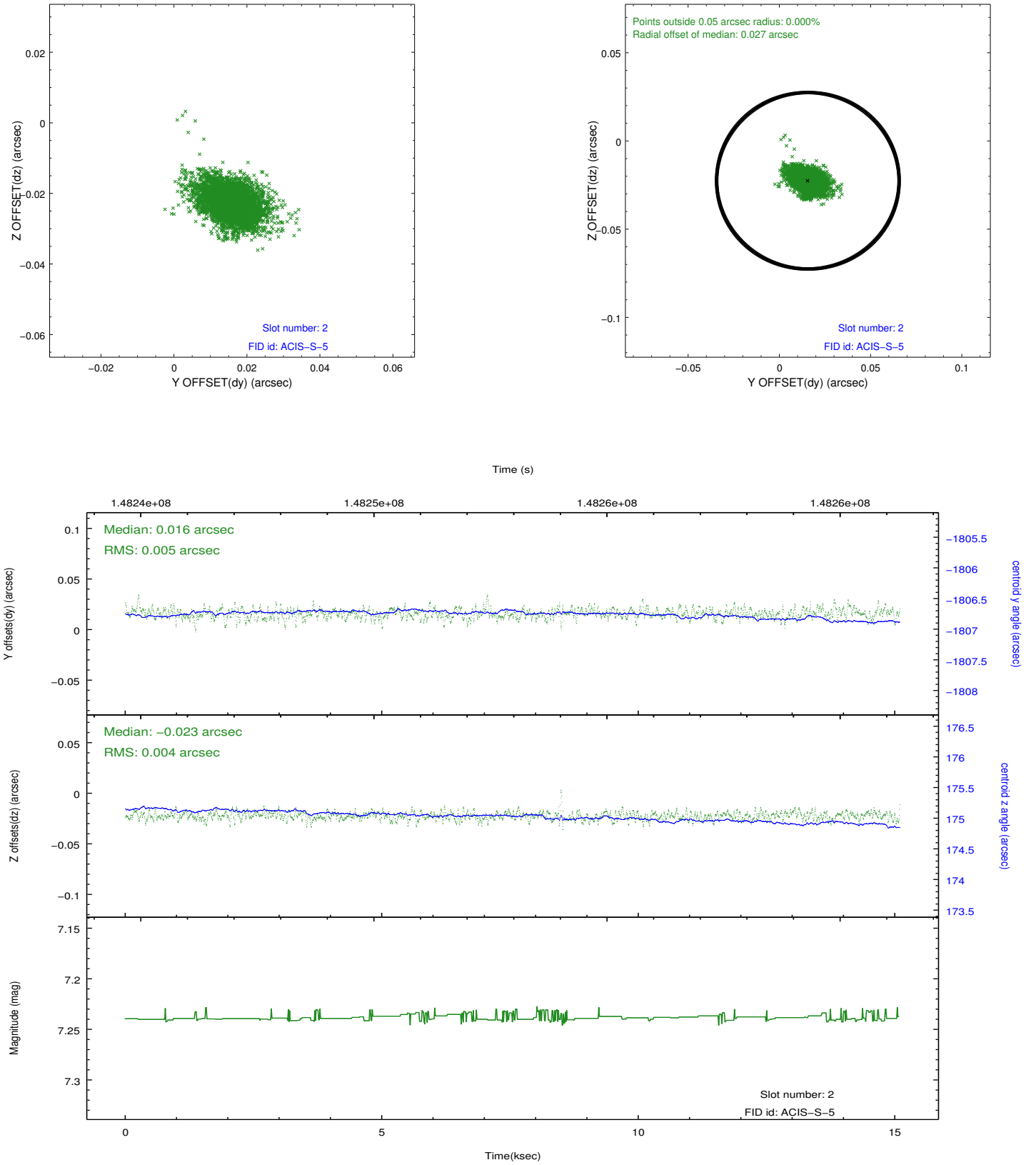
2.5.1 Slot 0



2.5.2 Slot 1

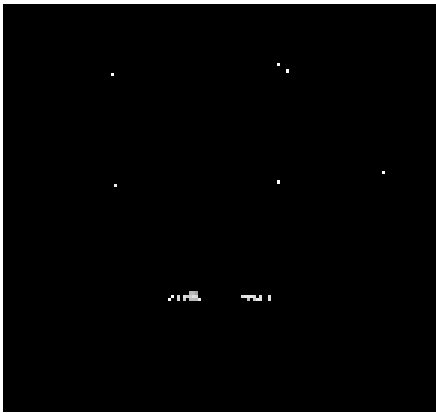


2.5.3 Slot 2

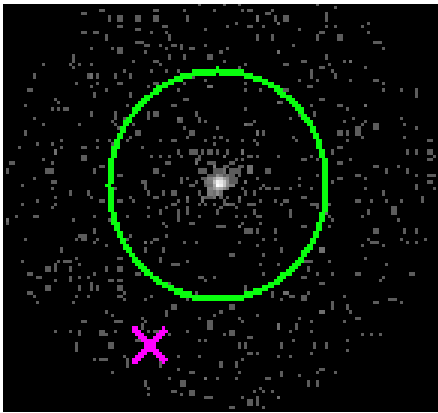


3 Gratings

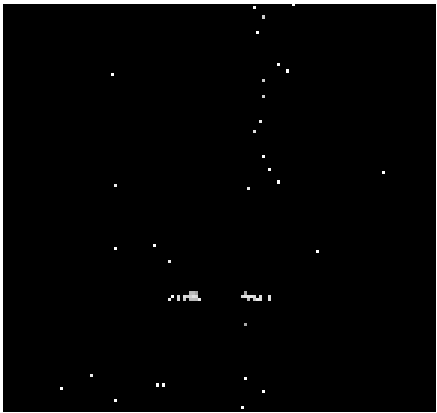
3.1 HEG Arm



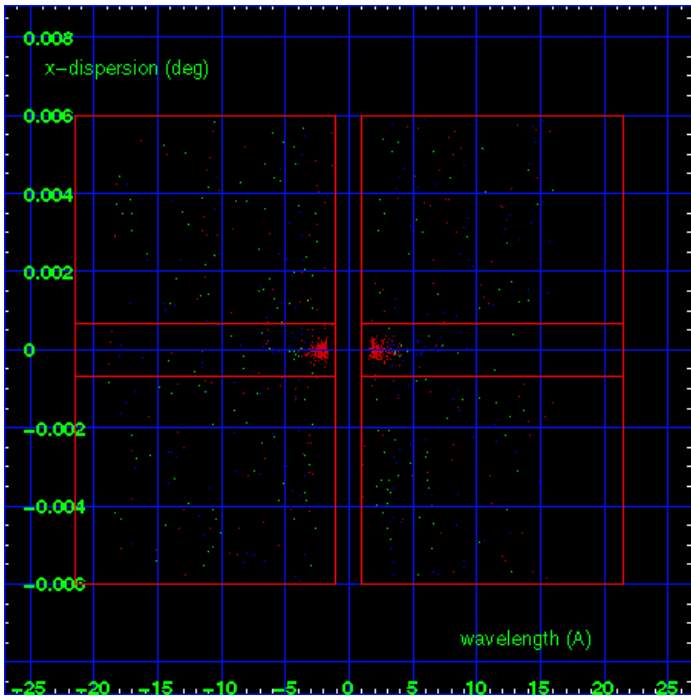
HEG Order Sort 123



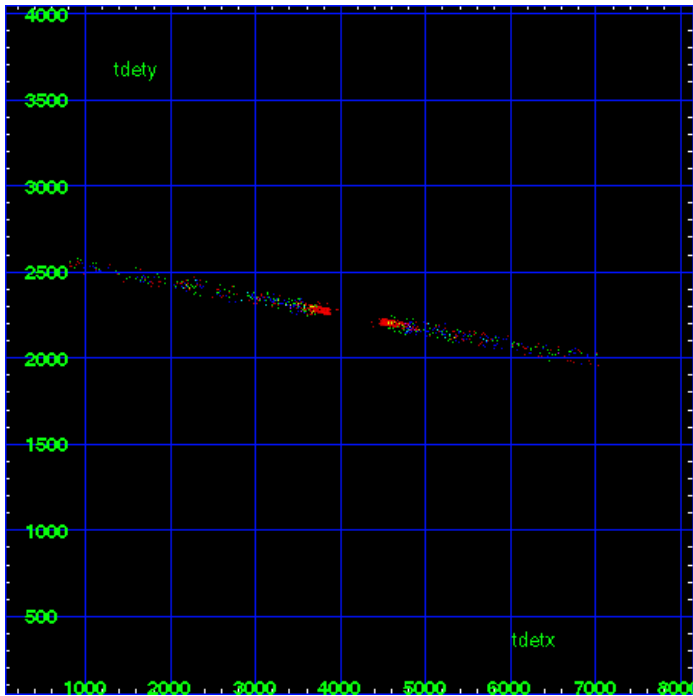
HEG Zero Order



HEG Order Sort ALL

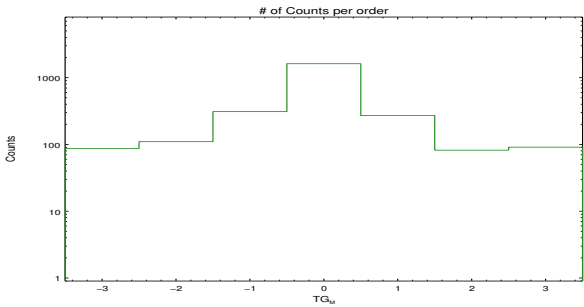


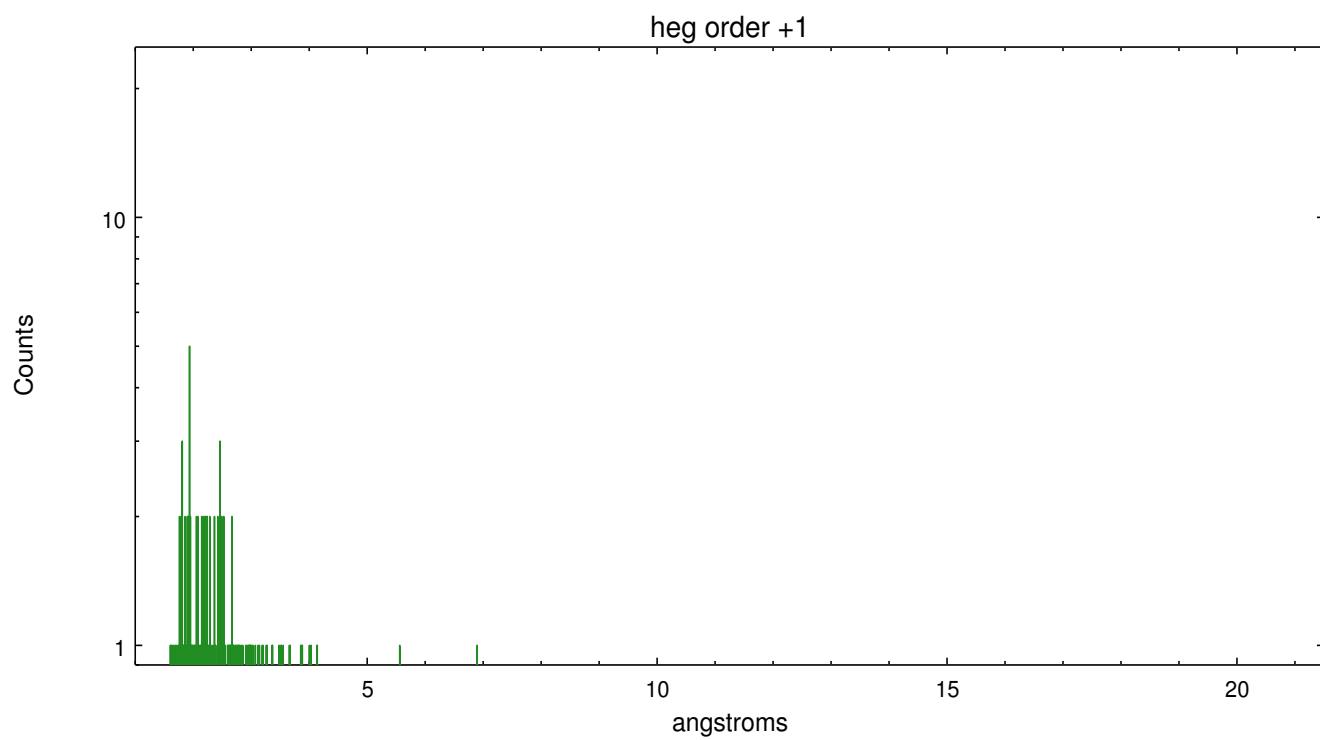
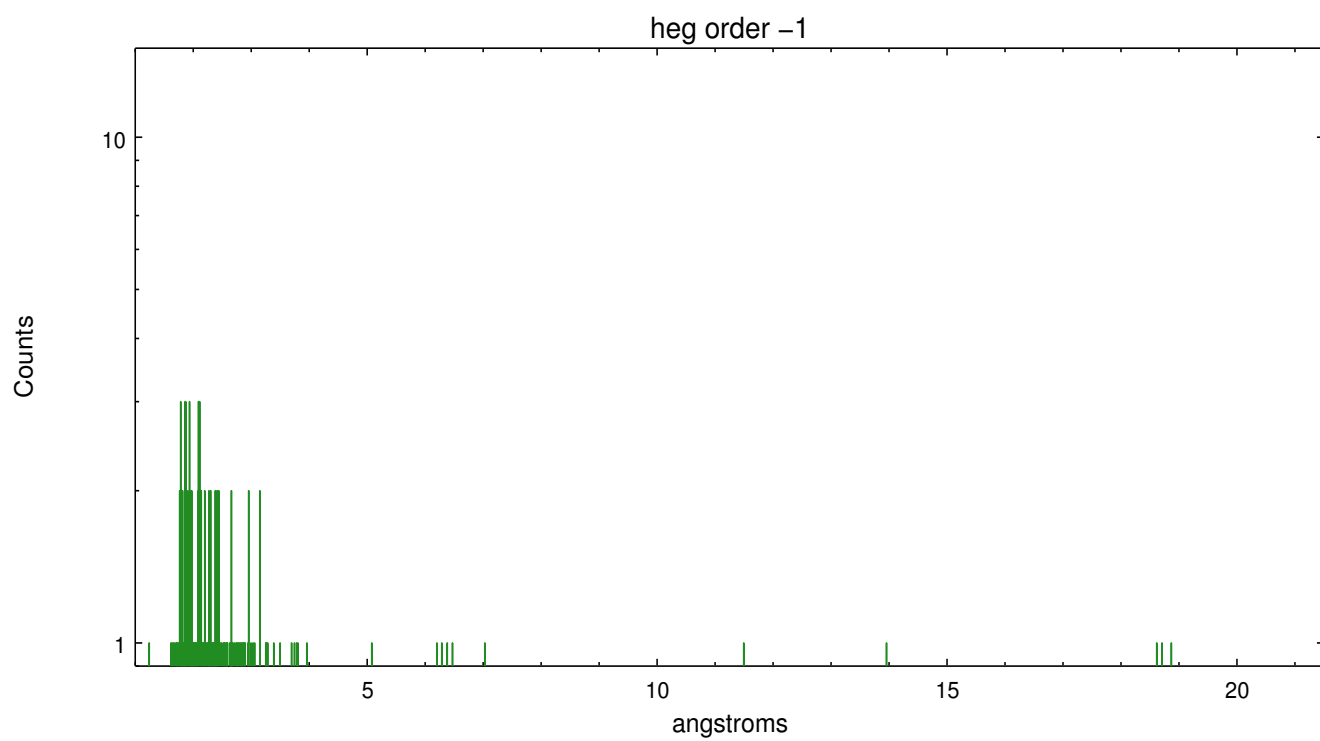
Spot Image HEG



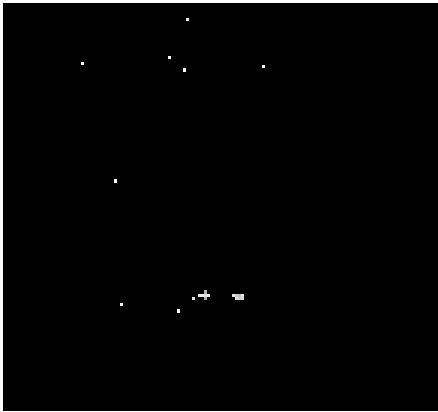
Full Detector HEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	87	110	310	1616	271	82	91

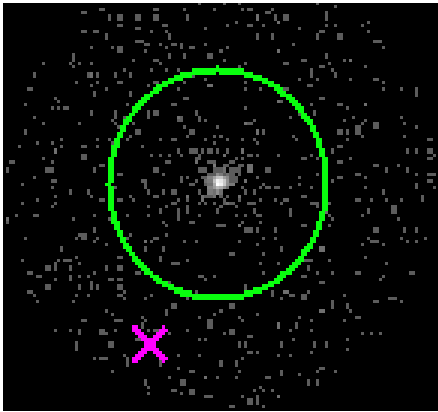




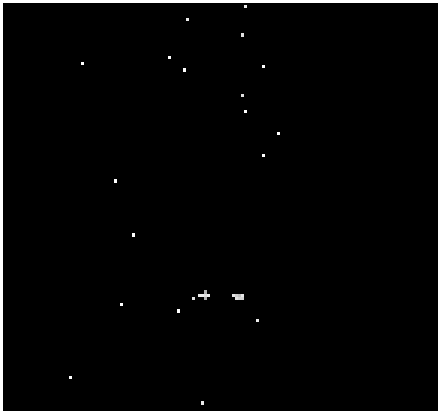
3.2 MEG Arm



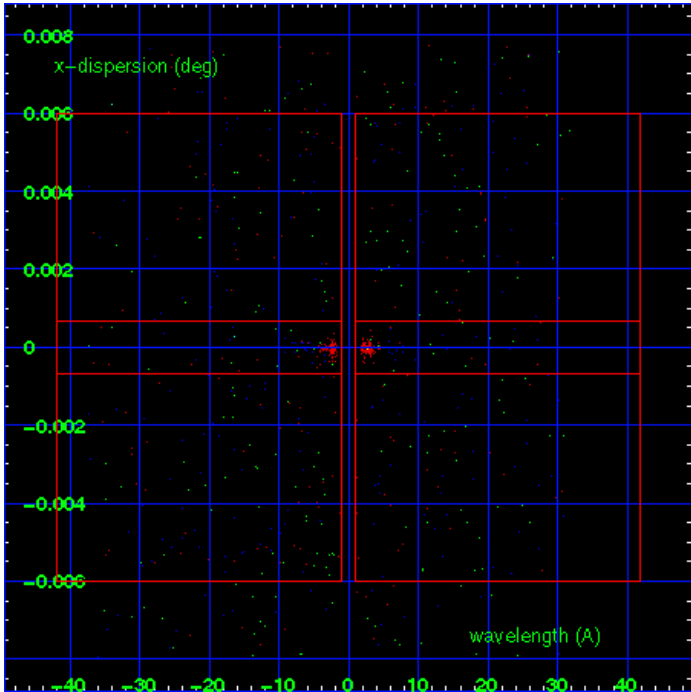
MEG Order Sort 123



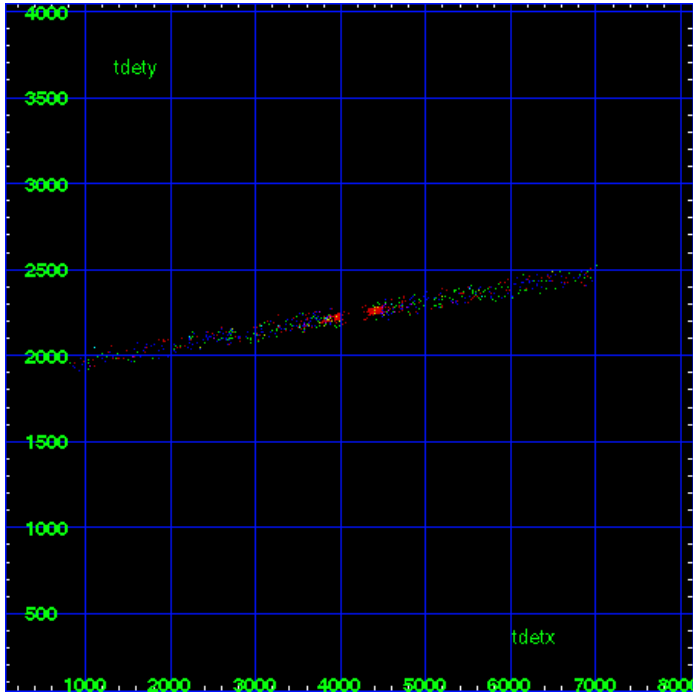
MEG Zero Order



MEG Order Sort ALL

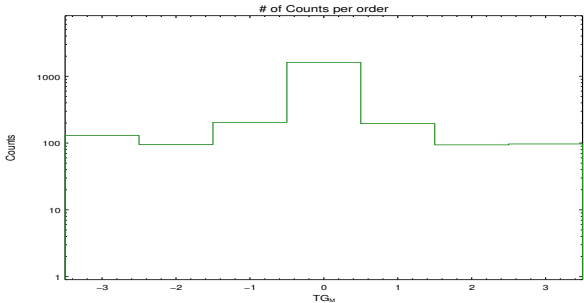


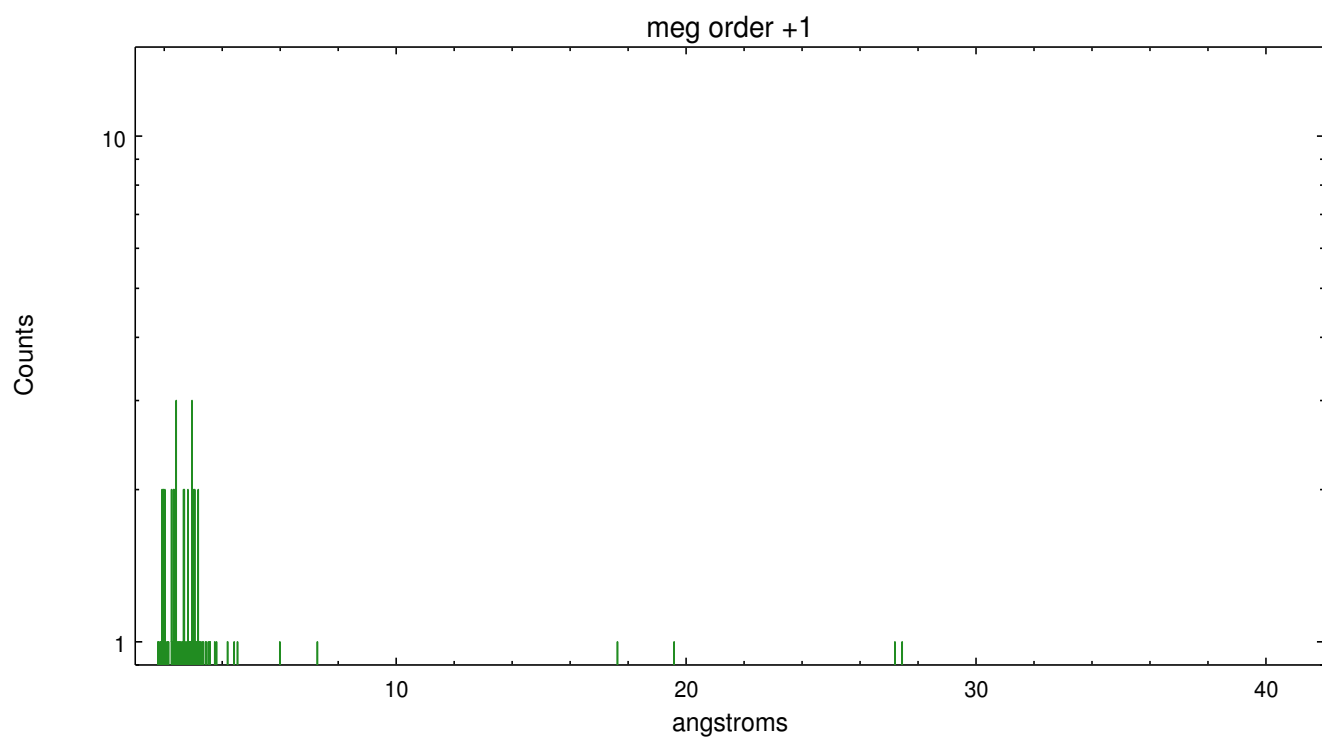
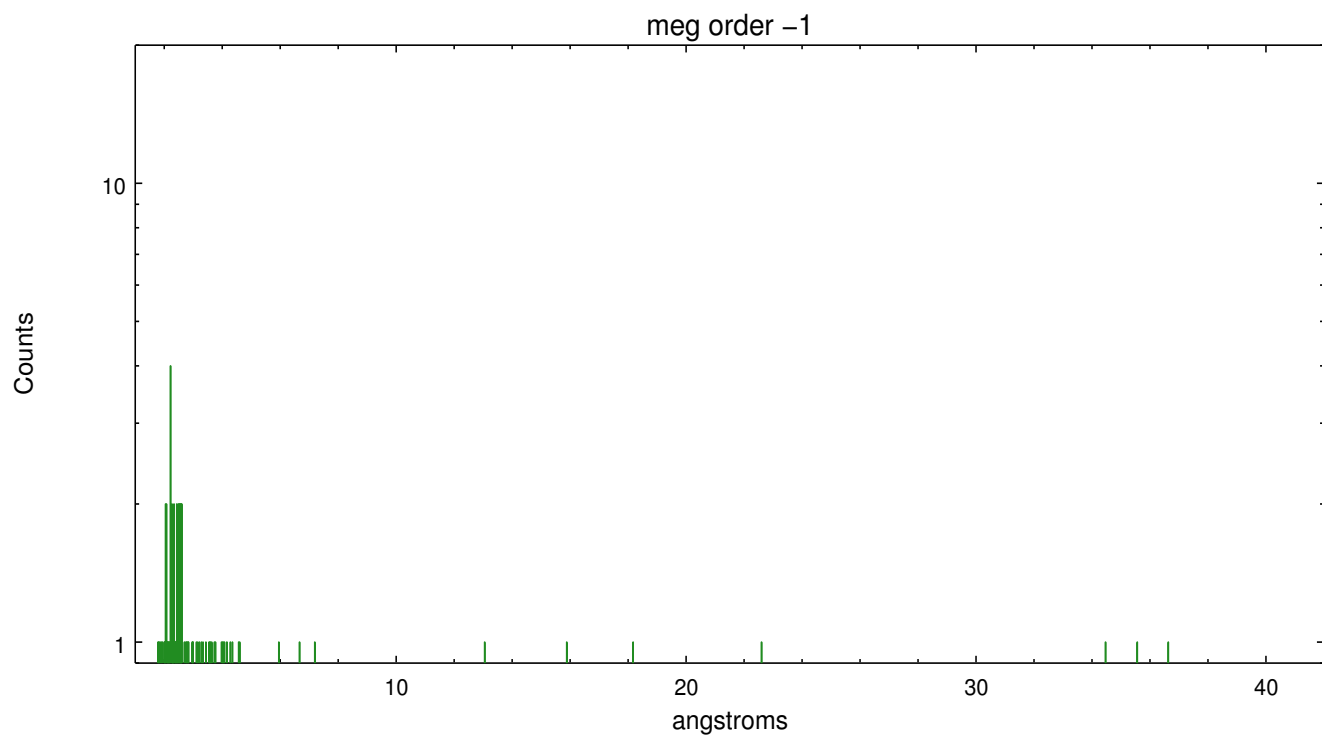
Spot Image MEG



Full Detector MEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	130	95	204	1616	196	94	97





A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.10.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	15.091

A.2 Comments