

V&V Reference Report

L2 ASCDS Version : 8.5

Observation 4910 - L2 Version 3
Chandra X-Ray Center

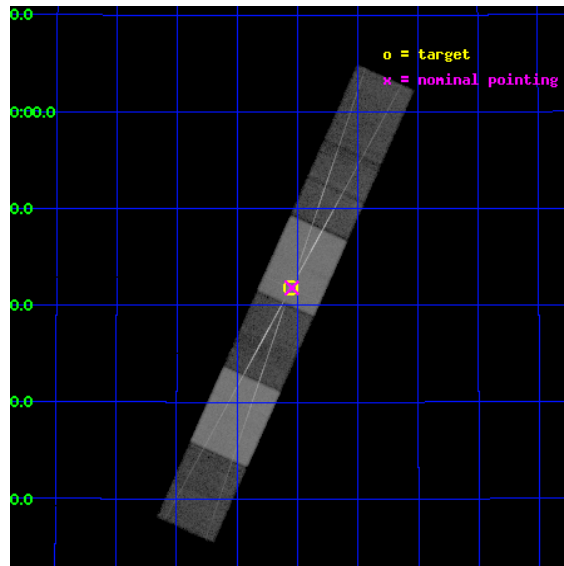
L2 Processing Date : Dec 10 2012

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1 Front

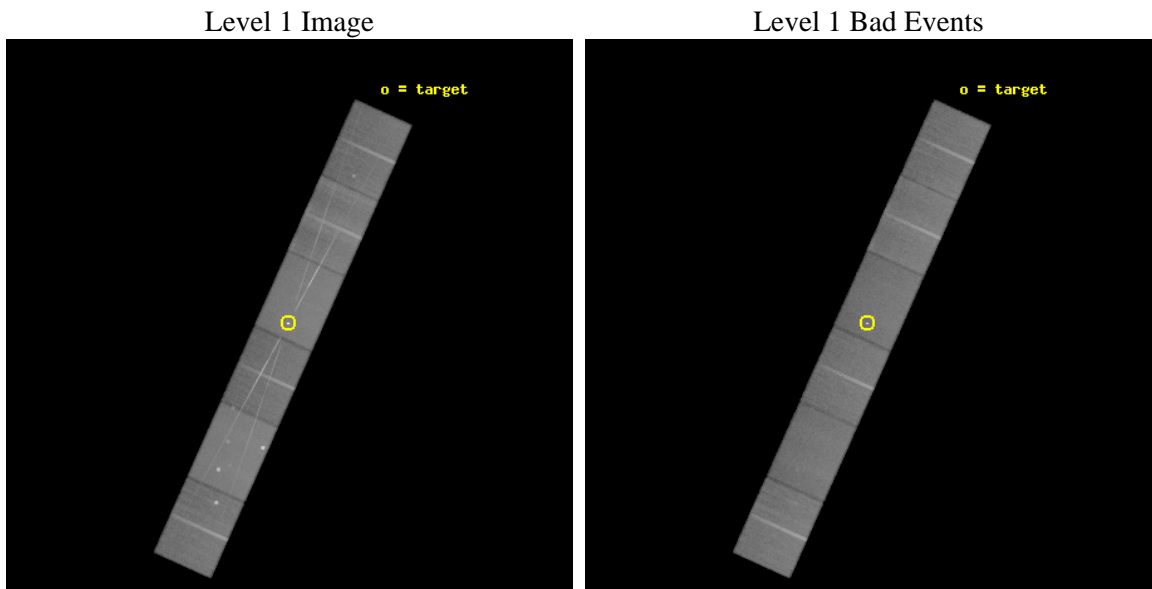
seq_num	700991	Sequence number
obs_id	4910	Observation id
title	The profile of the Fe Kalpha line in the Broad Line Radio Galaxy 3C382	Proposal title
observer	Dr. Rita Sambruna	Principal investigator
object	3C382	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	278.764167	Observer's specified target RA [deg]
dec_targ	32.696389	Observer's specified target Dec [deg]
ra_nom	278.76164359291	Nominal RA [deg]
dec_nom	32.697058681409	Nominal Dec [deg]
roll_nom	294.15799323474	Nominal Roll [deg]
revision	3	Processing version of data
ontime	55041.449766427	Sum of GTIs [s]
livetime	54152.482611871	Livetime [s]
ontime4	55038.949806243	Sum of GTIs [s]
ontime5	55041.408726424	Sum of GTIs [s]
ontime6	55041.367686421	Sum of GTIs [s]
ontime7	55041.449766427	Sum of GTIs [s]
ontime8	55041.326646417	Sum of GTIs [s]
ontime9	55041.285606444	Sum of GTIs [s]
l2events	640806	Number of level 2 events



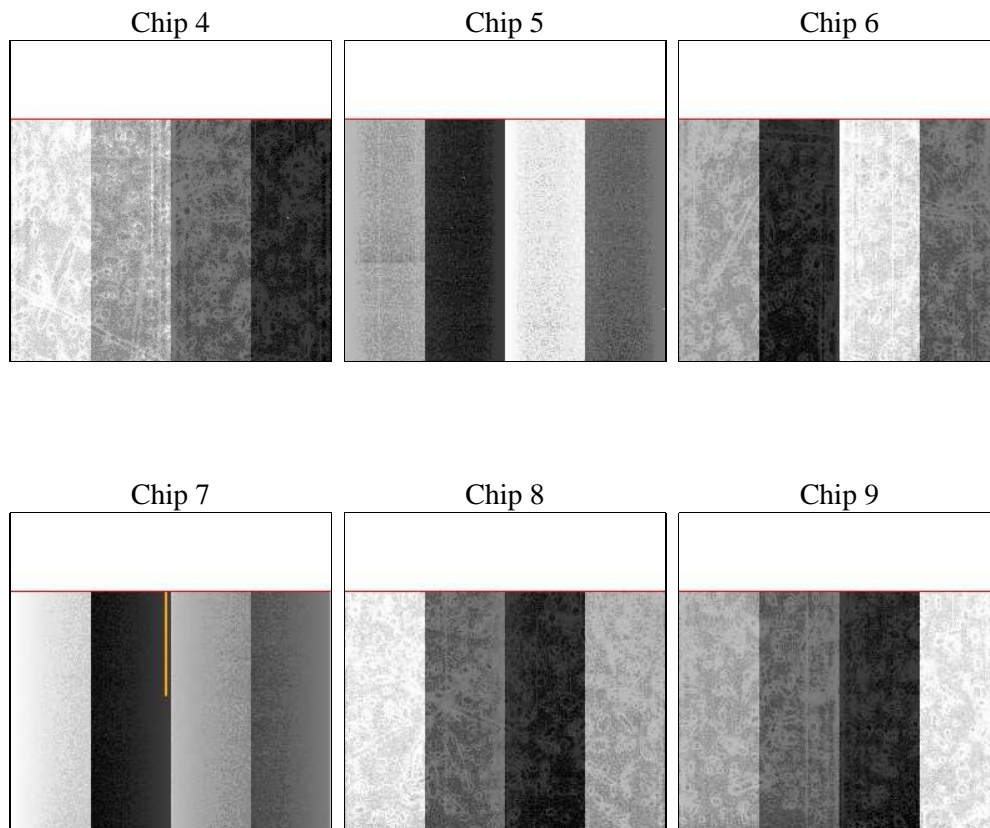
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	55000.000000	[s] Scheduled observation exposure time
ascdsver	8.5	Processing system revision	ontime	55041.449766427	Sum of GTIs [s]
caldbver	4.5.4	 	ontime4	55038.949806243	Sum of GTIs [s]
date	2012-12-10T14:00:15	Date and time of file creation	ontime5	55041.408726424	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	55041.367686421	Sum of GTIs [s]
			ontime7	55041.449766427	Sum of GTIs [s]
			ontime8	55041.326646417	Sum of GTIs [s]
			ontime9	55041.285606444	Sum of GTIs [s]
			l1events	2529003	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	376698	514904	368088	497216	439217	332880	grade 0 events	28076	41837	41053	25649	40810	20513
rejected events	324268	263392	295799	266702	333361	287719		7%	8%	11%	5%	9%	6%
rejected %	86%	51%	80%	53%	75%	86%	grade 1 events	358	795	248	794	297	212
								0%	0%	0%	0%	0%	0%
							grade 2 events	8930	69392	11965	48139	21144	8193
								2%	13%	3%	9%	4%	2%
							grade 3 events	4498	11703	5358	21669	10303	4382
								1%	2%	1%	4%	2%	1%
							grade 4 events	4368	11119	5136	21565	9583	4186
								1%	2%	1%	4%	2%	1%
							grade 5 events	14021	37935	15016	45050	19838	15623
								3%	7%	4%	9%	4%	4%
							grade 6 events	6559	117481	8782	113514	24030	7894
								1%	22%	2%	22%	5%	2%
							grade 7 events	309888	224642	280530	220836	313212	271877
								82%	43%	76%	44%	71%	81%

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	278.735154	278.7616435929103	Subarray requested	CUSTOM	CUSTOM
[deg] Pointing Dec	32.712702	32.69705868140945	Subarray start row	1	1
[deg] Pointing Roll	294.015678	294.1579932347382	Subarray row count	774	774
[deg] Roll angle	268.000000	268.000000	Alternating exposures requested	N	N
[deg] Roll tolerance	33.000000	33.000000	[s] Primary exposure time	0.000000	2.5
Roll constraint allows 180D rotation	Y	Y			
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-187.132523	-187.1254020033014			
[mm] SIM translation stage offset	-3	-3.007120579706367			
[s] Observation start time (MET)	215284246.184000	215283039.43347			
Observation start date	2004-10-27T17:09:42	2004-10-27T16:50:39			
[s] Observation end time (MET)	215339246.184000	215340225.72353			
Observation end date	2004-10-28T08:26:22	2004-10-28T08:43:45			
Read mode	TIMED	TIMED			

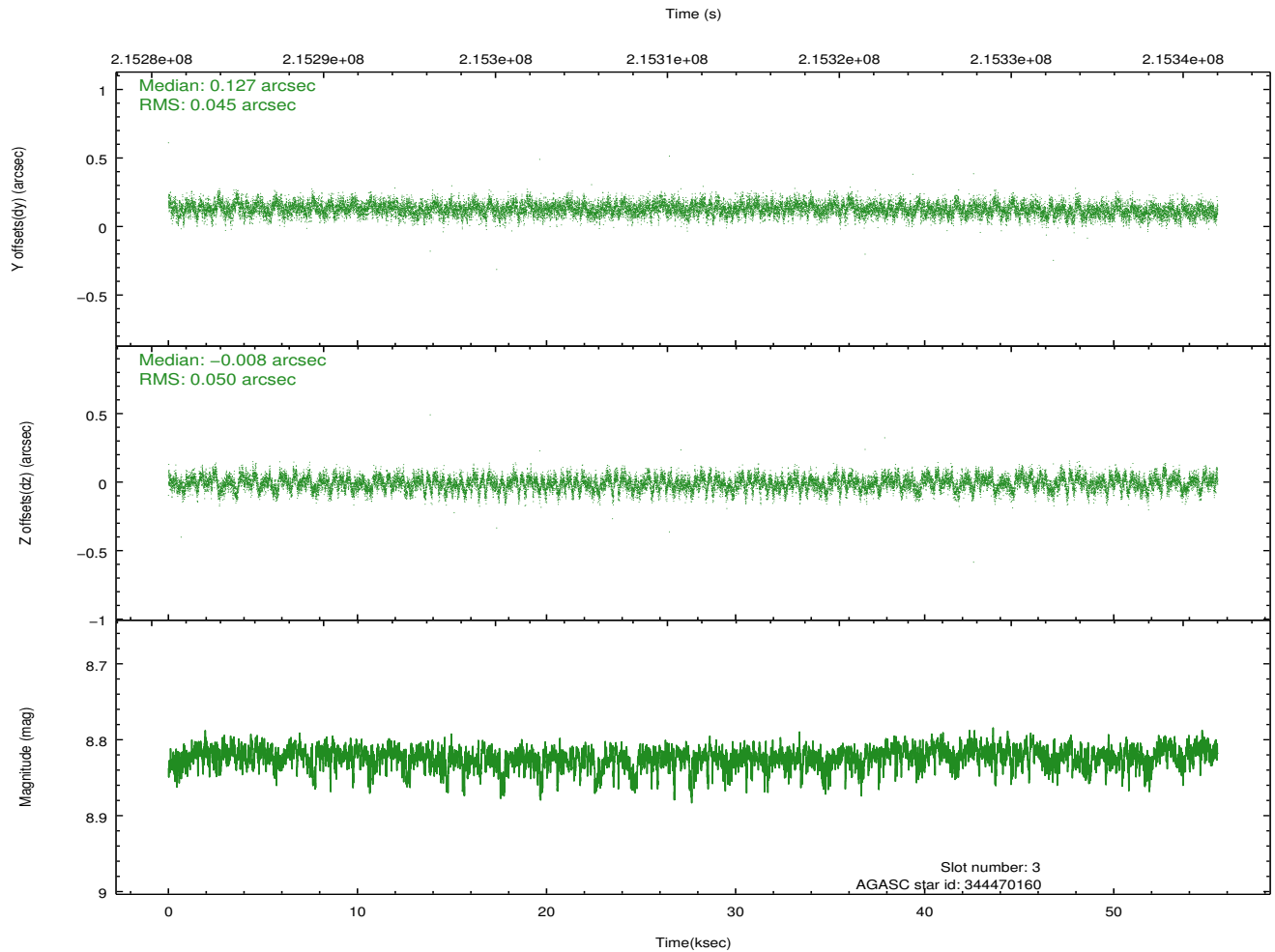
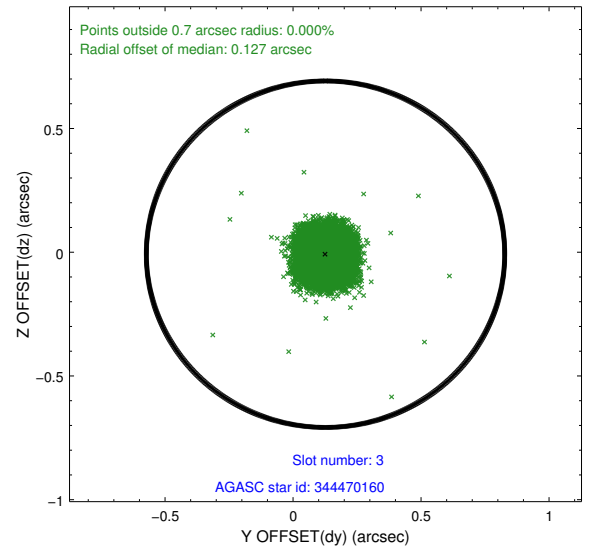
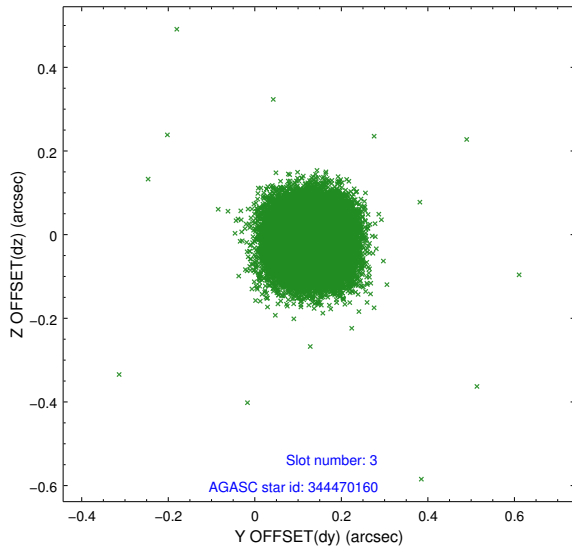
2.3 Aspect

Slot Statistics

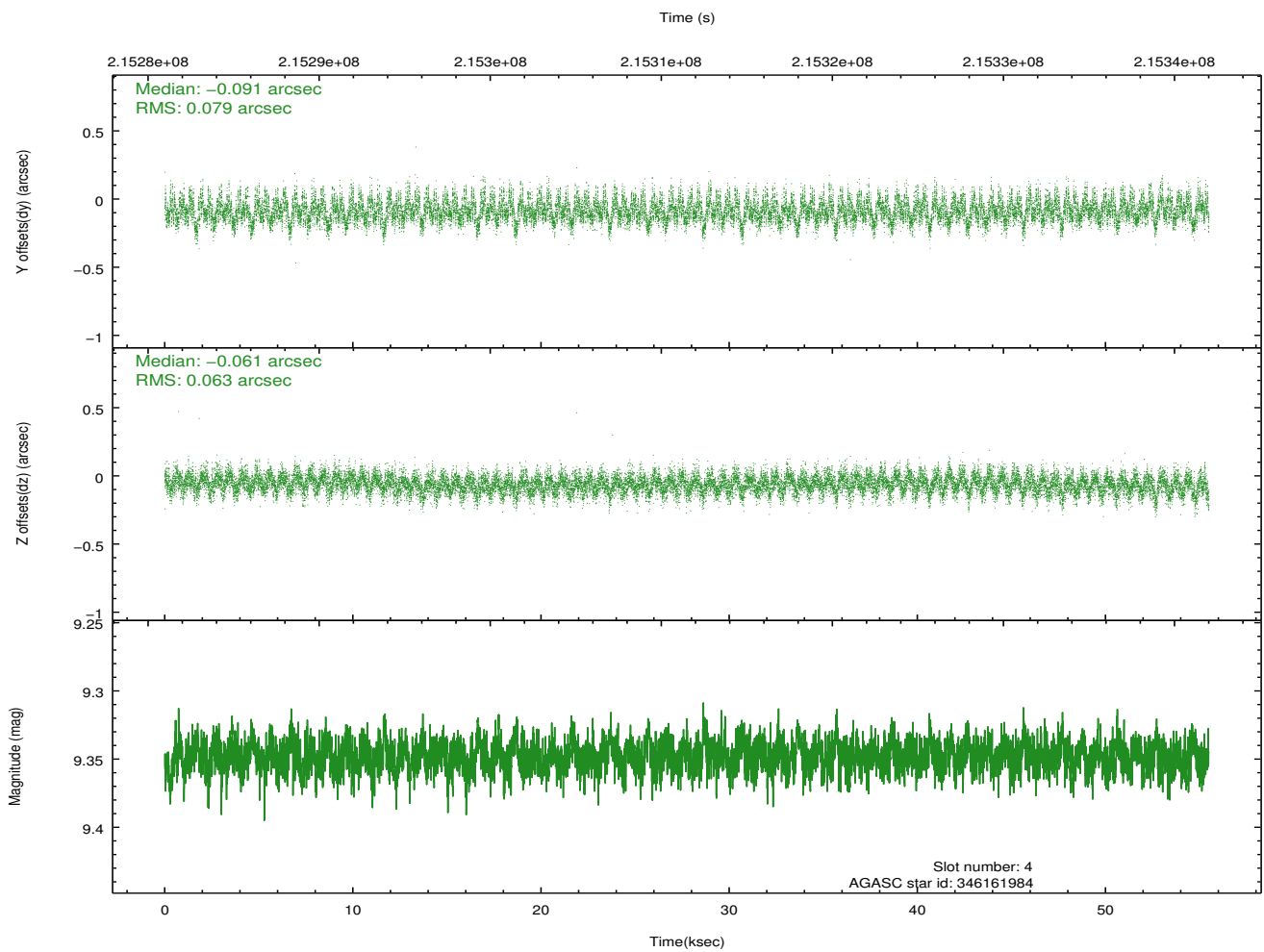
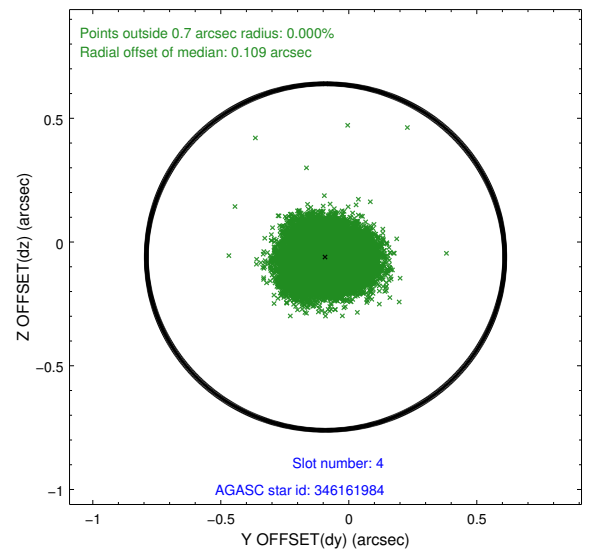
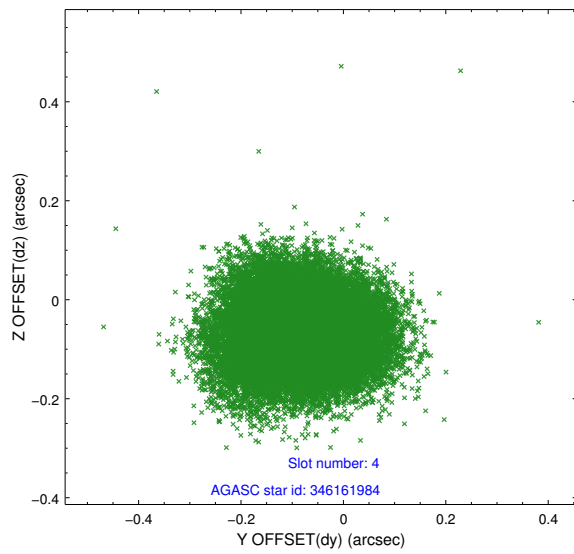
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.18	13537	0.030	0.044	0.010	0.019	0.000000	0.000000	936.31	-1790.58
1	FID	ACIS-S-5	7.23	13535	-0.086	0.033	0.012	0.018	0.000000	0.000000	-1812.82	106.99
2	FID	ACIS-S-6	7.37	13535	0.035	-0.065	0.011	0.017	0.000000	0.000000	401.90	750.82
3	GUIDE	344470160	8.82	27058	0.127	-0.008	0.072	0.116	278.797364	32.225309	1680.32	-540.63
4	GUIDE	346161984	9.35	27057	-0.091	-0.061	0.108	0.174	279.085504	33.499118	-2159.43	2113.82
5	GUIDE	346176856	9.20	27053	0.088	-0.022	0.072	0.118	279.094962	32.258255	1938.87	335.99
6	GUIDE	344457512	9.85	27045	-0.014	0.021	0.162	0.250	277.881000	32.714944	-1069.51	-2355.21
7	GUIDE	344464904	8.42	27004	-0.108	0.071	0.071	0.115	278.255510	33.238188	-2318.51	-547.84

2.4 Star Slots

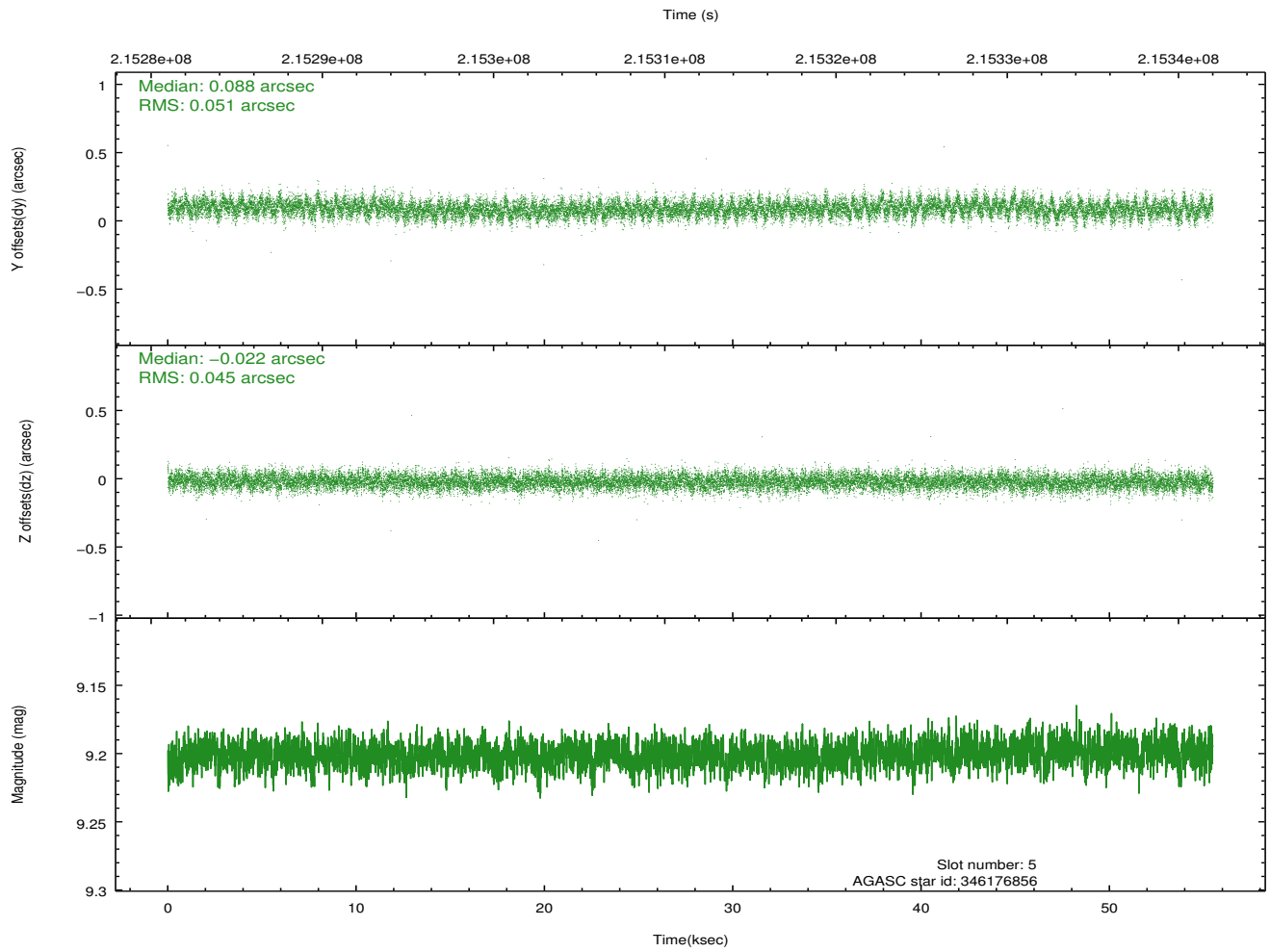
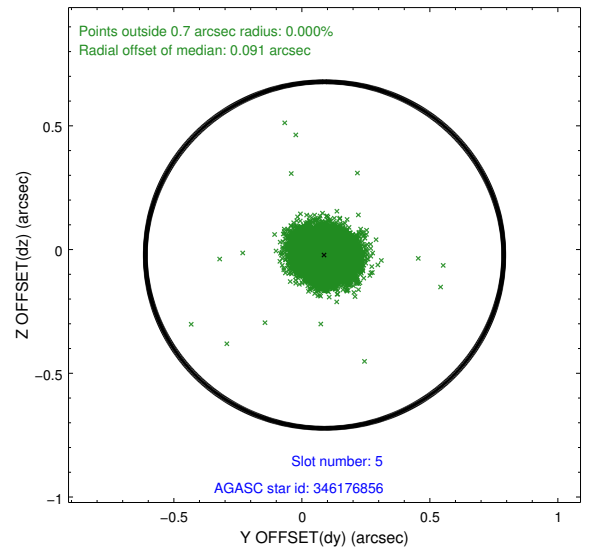
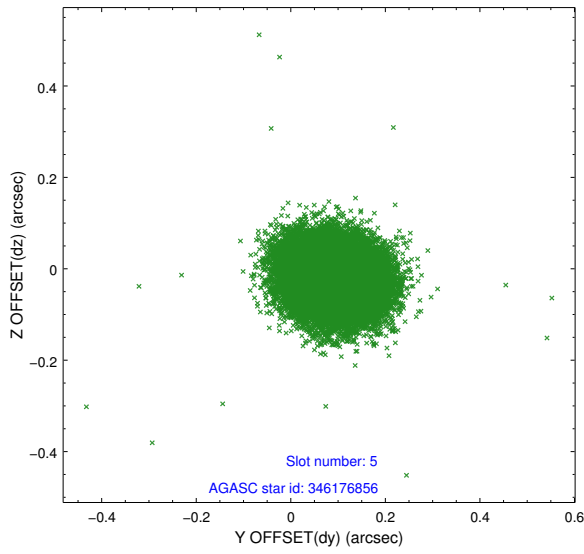
2.4.1 Slot 3



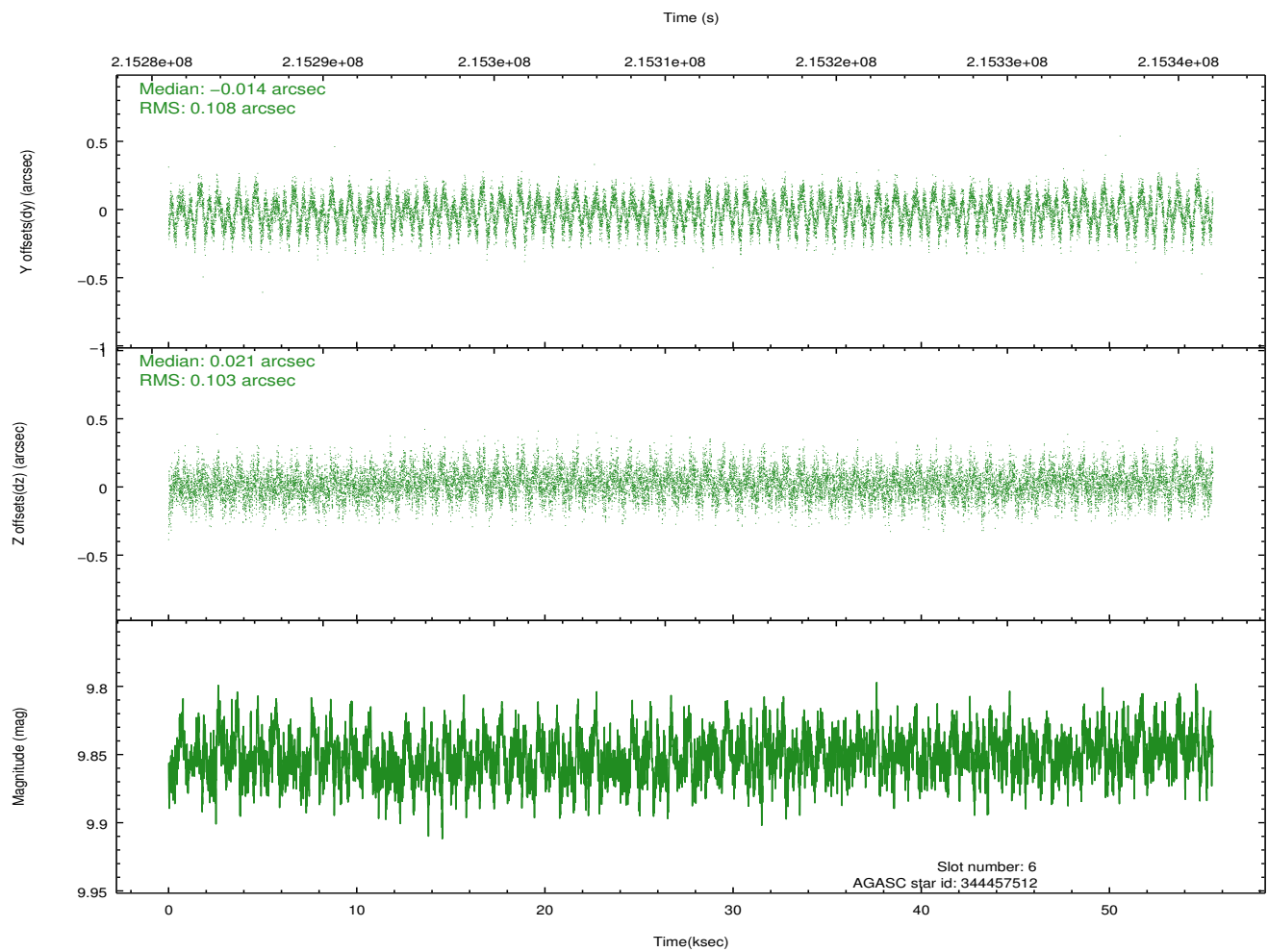
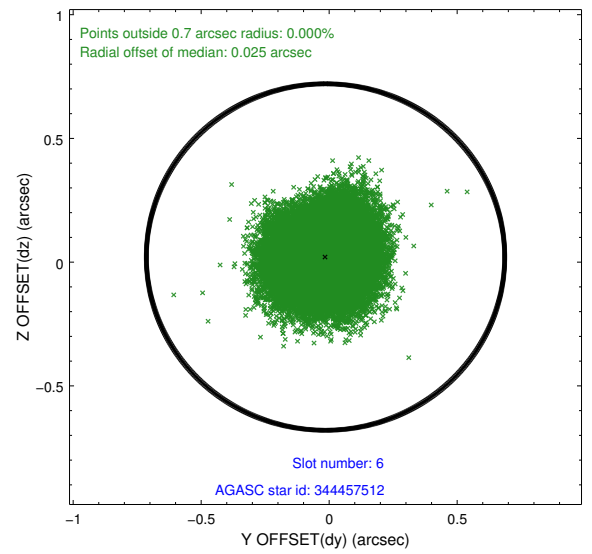
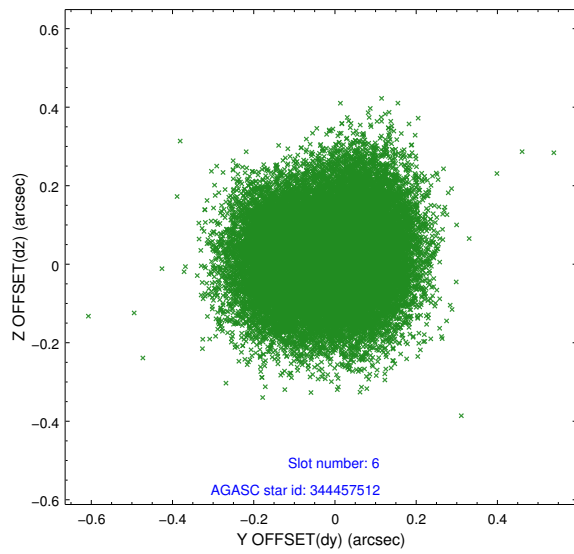
2.4.2 Slot 4



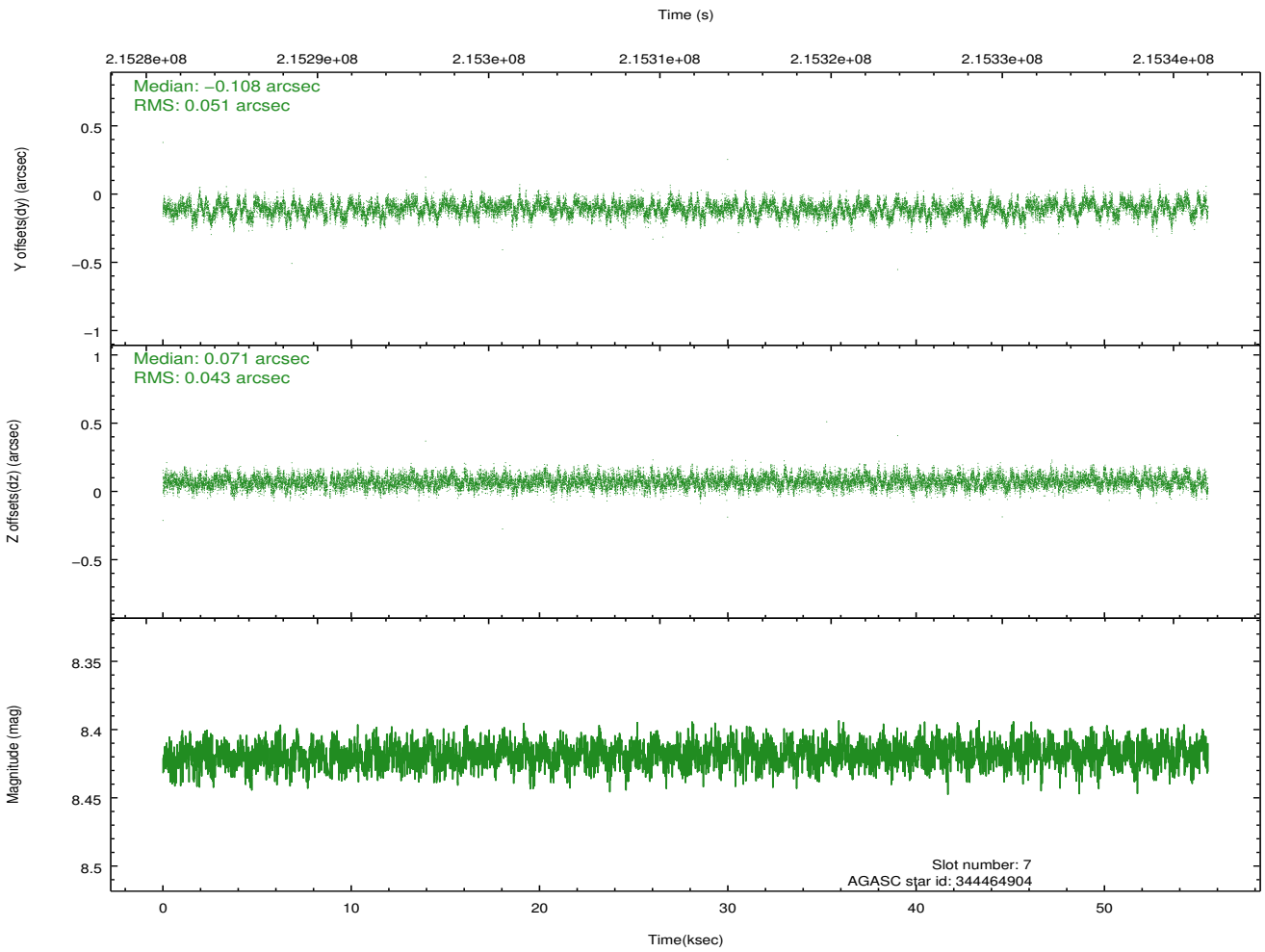
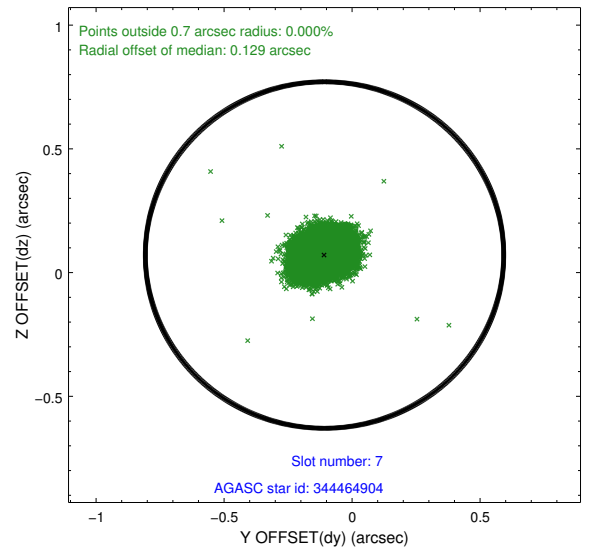
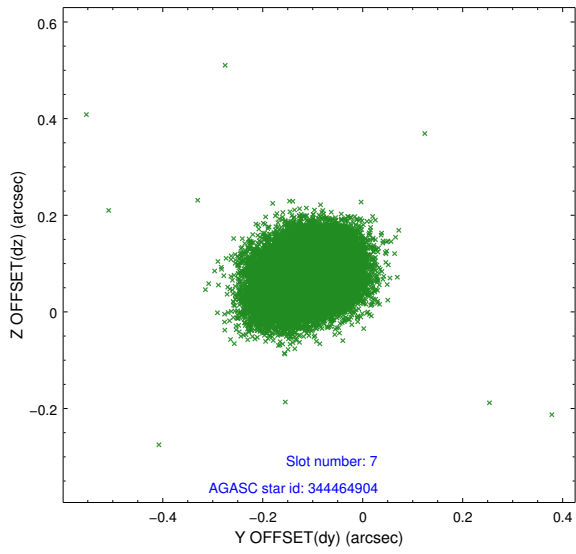
2.4.3 Slot 5



2.4.4 Slot 6

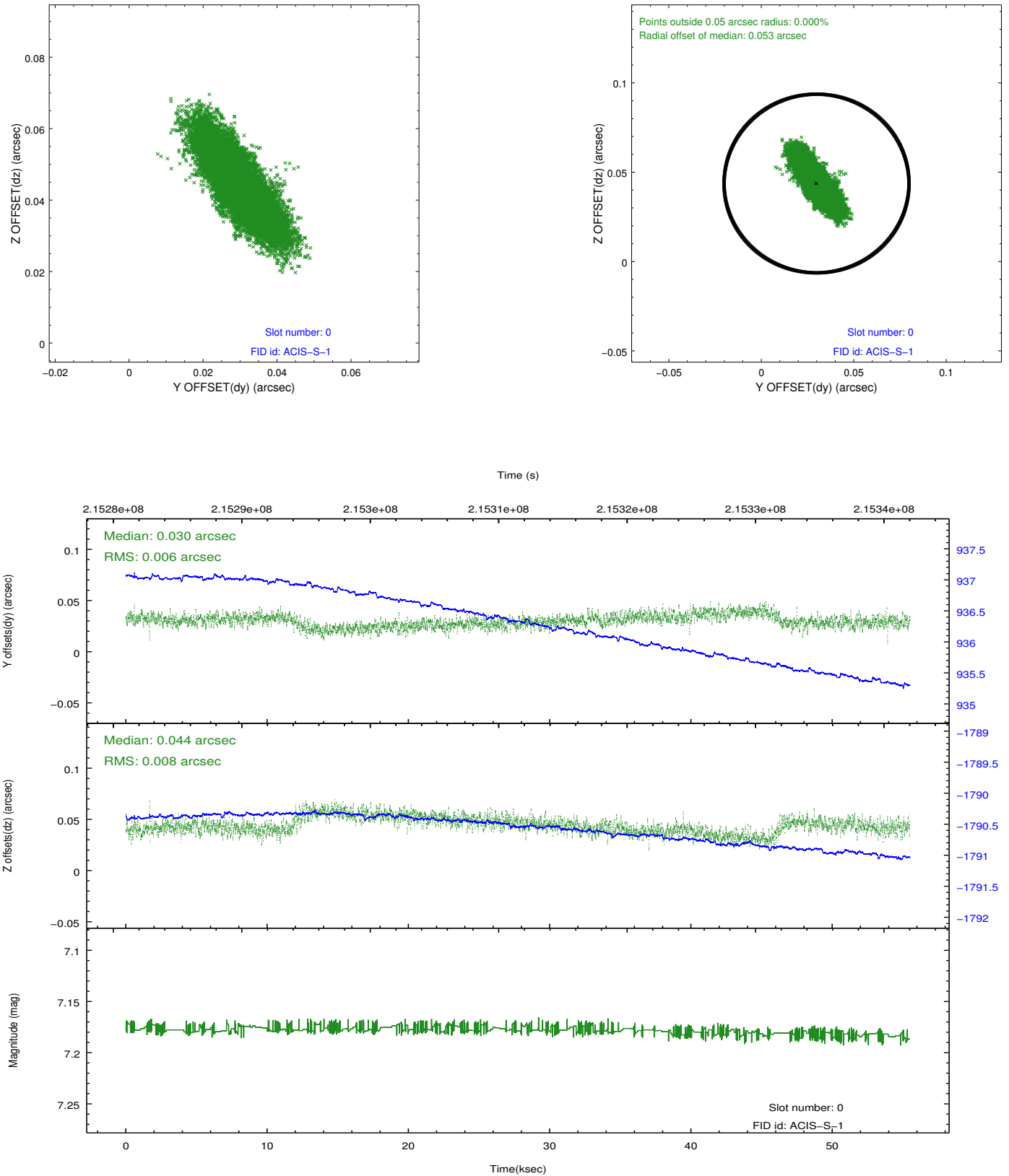


2.4.5 Slot 7

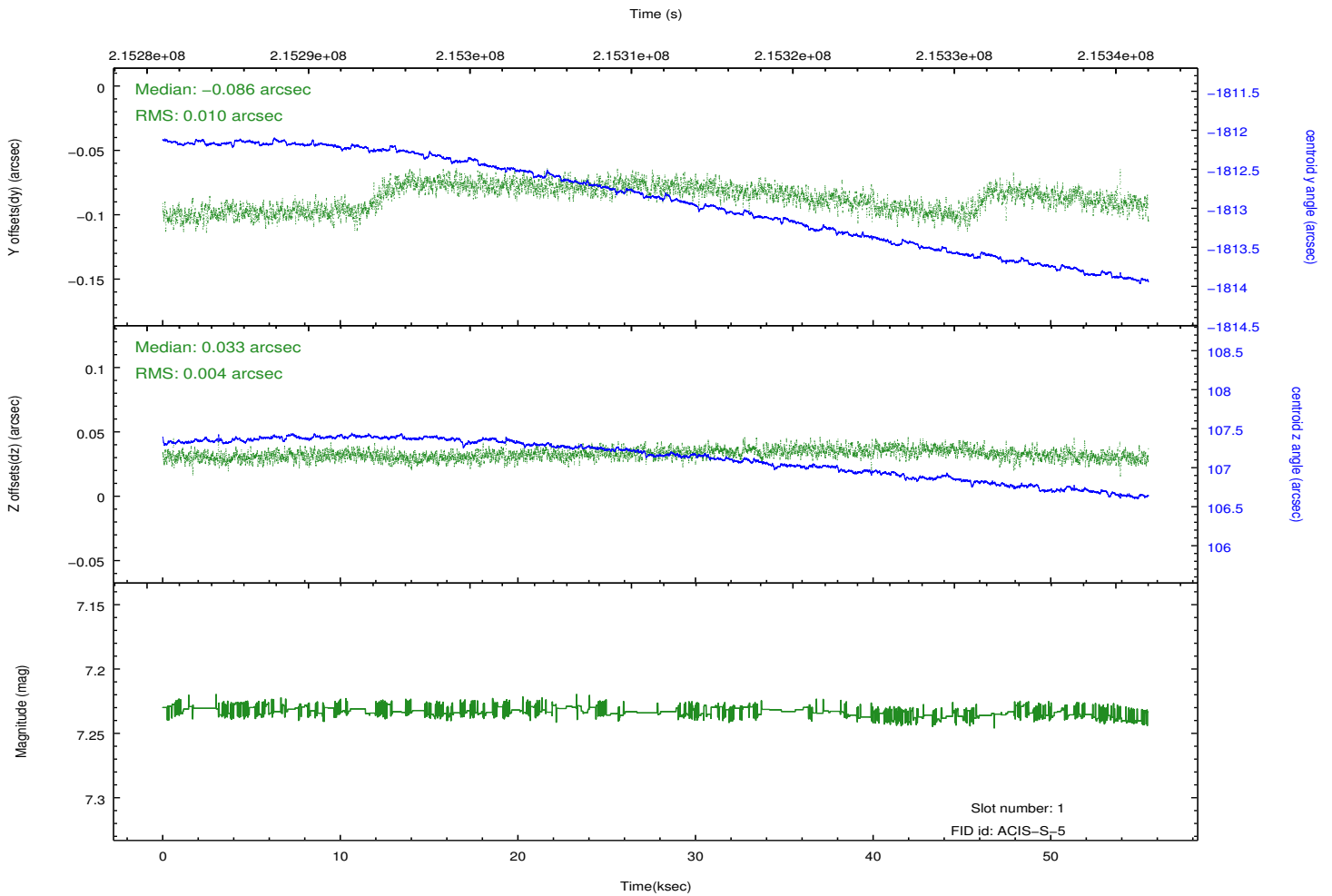
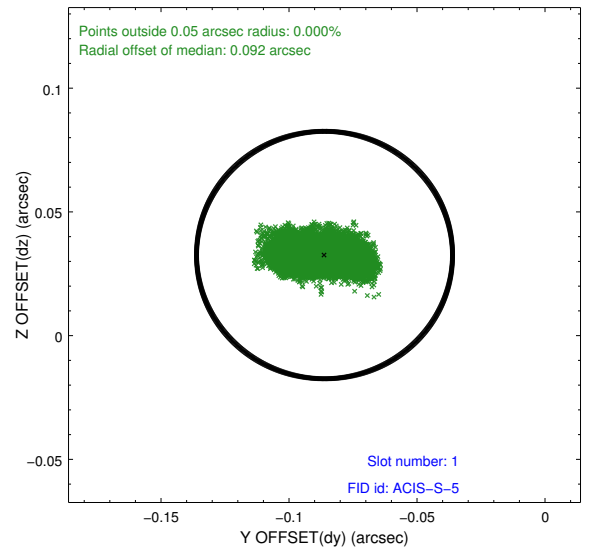
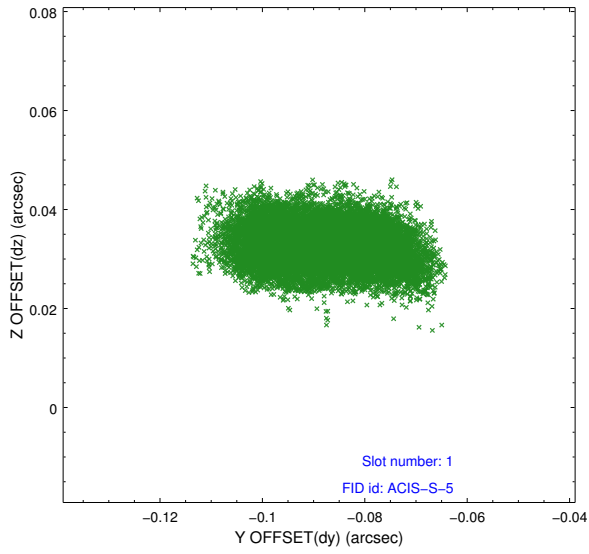


2.5 FID Slots

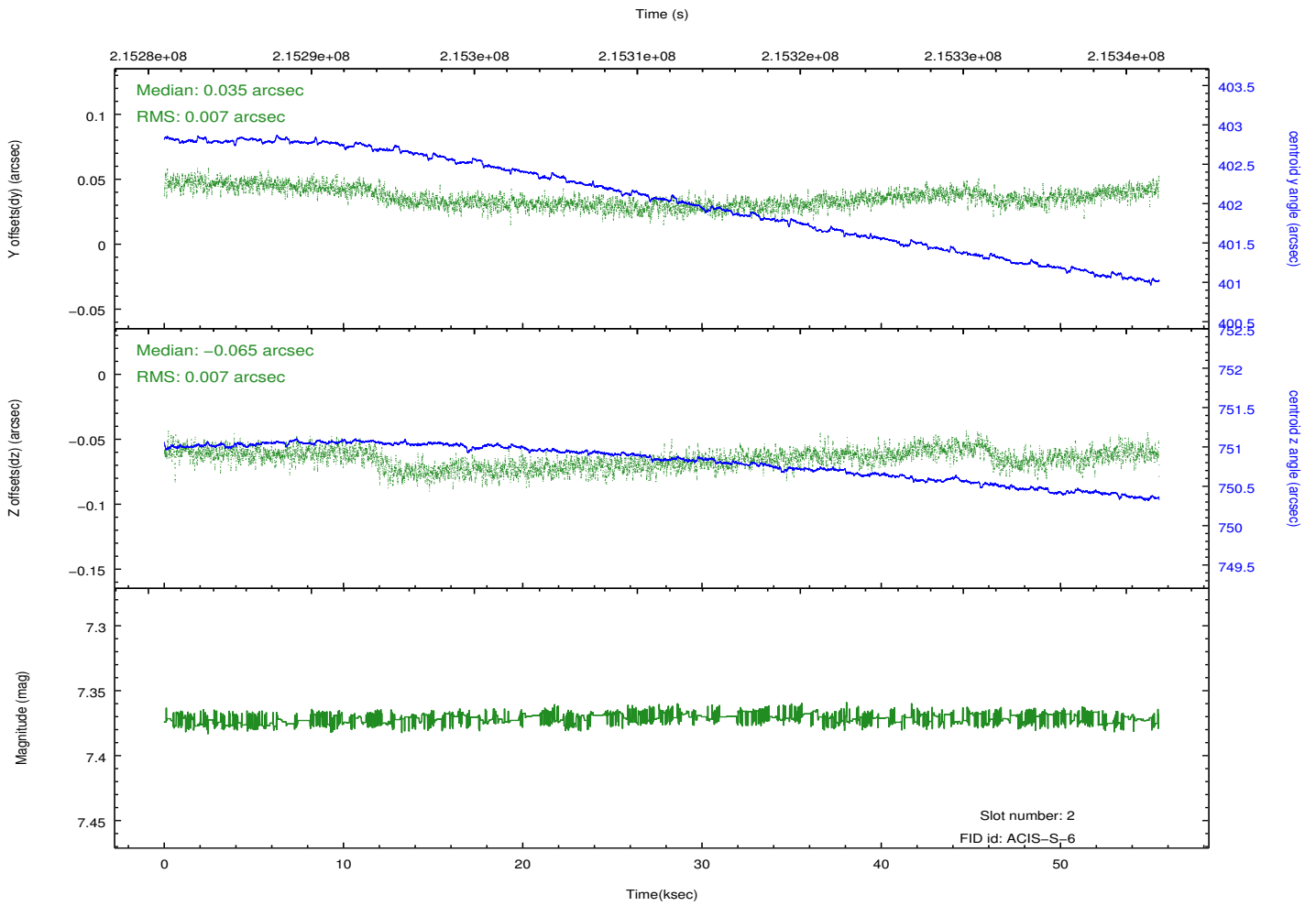
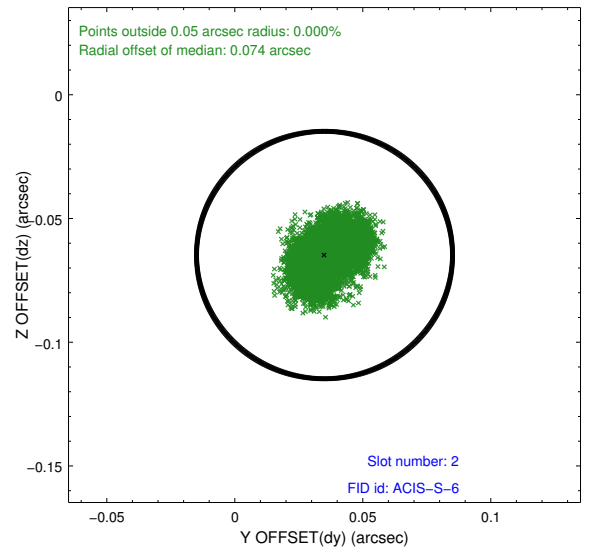
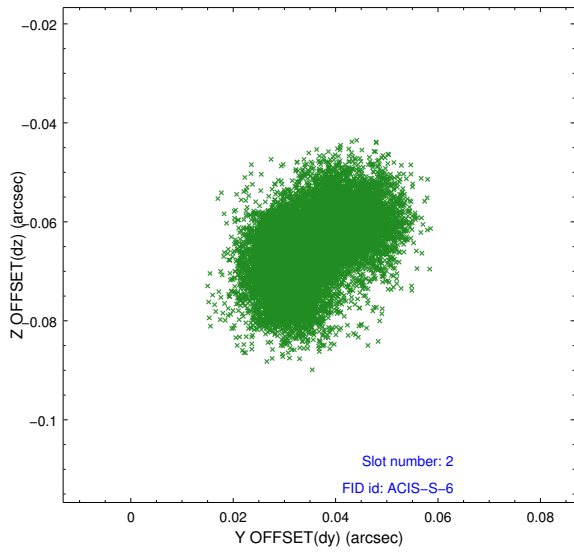
2.5.1 Slot 0



2.5.2 Slot 1

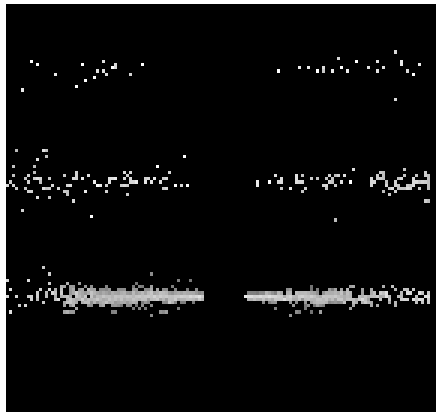


2.5.3 Slot 2

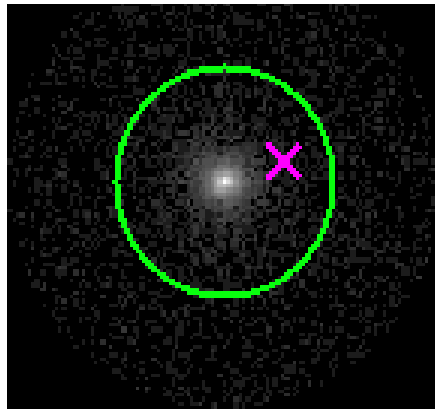


3 Gratings

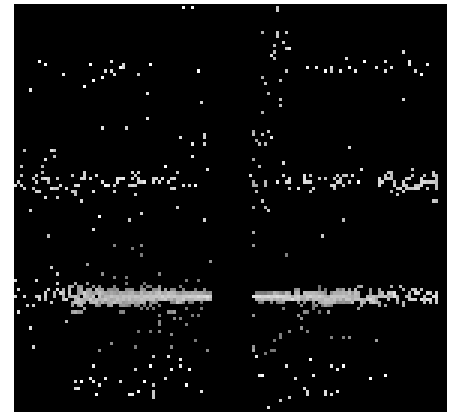
3.1 HEG Arm



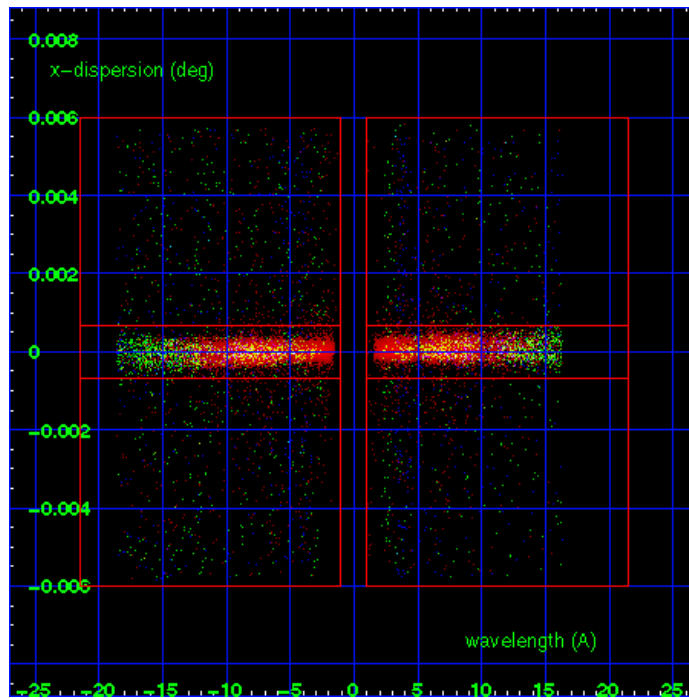
HEG Order Sort 123



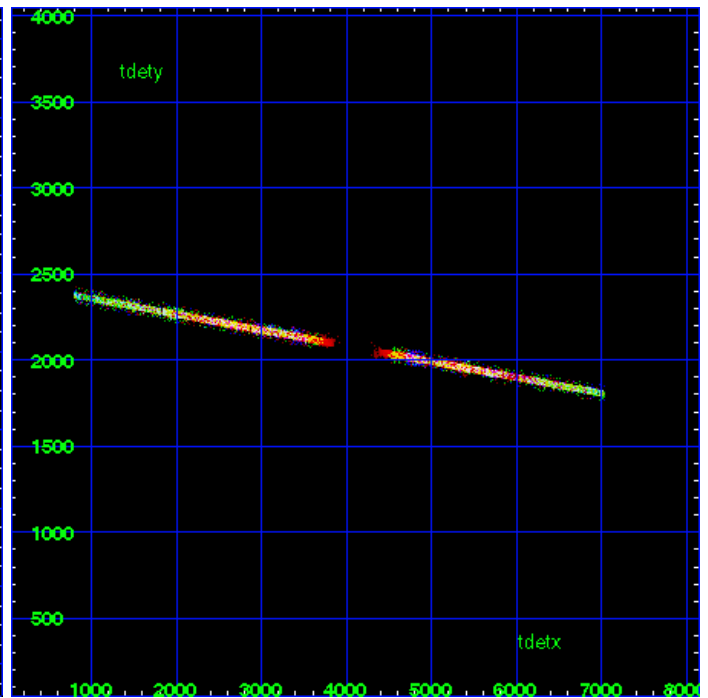
HEG Zero Order



HEG Order Sort ALL

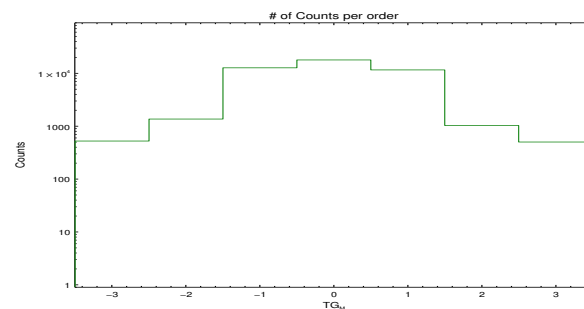


Spot Image HEG

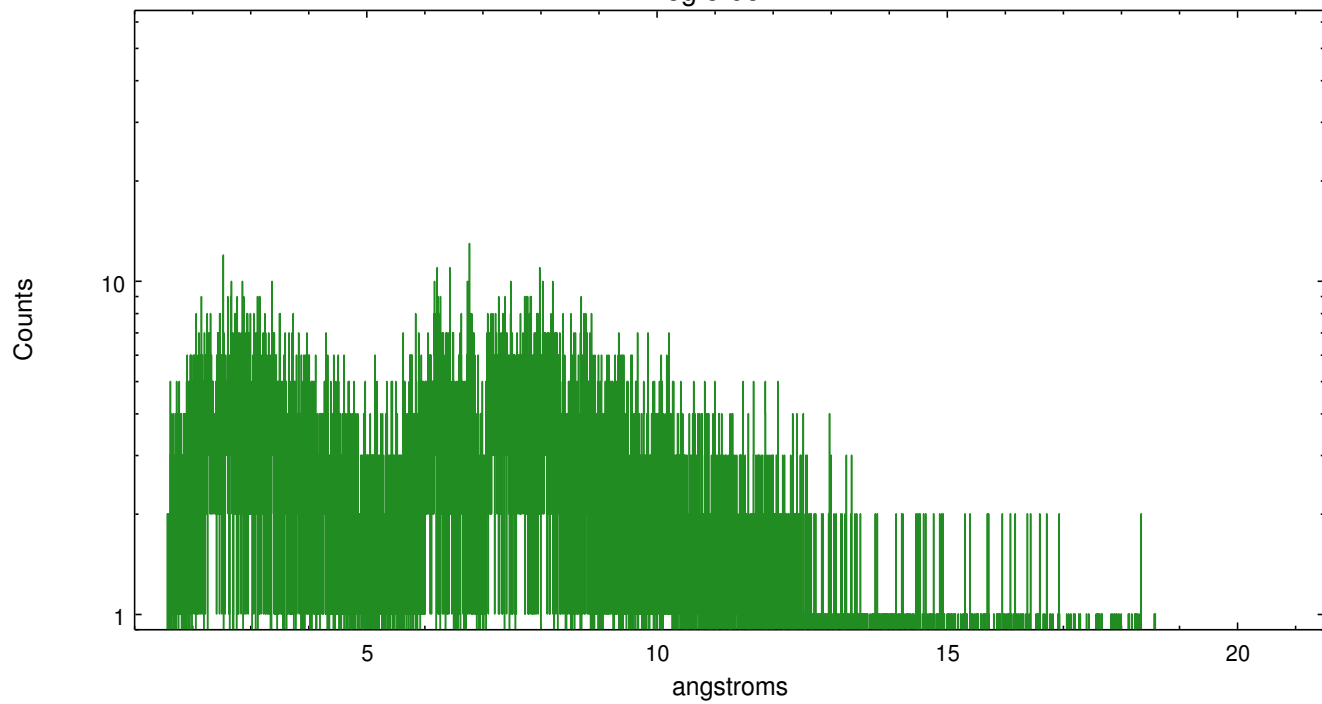


Full Detector HEG

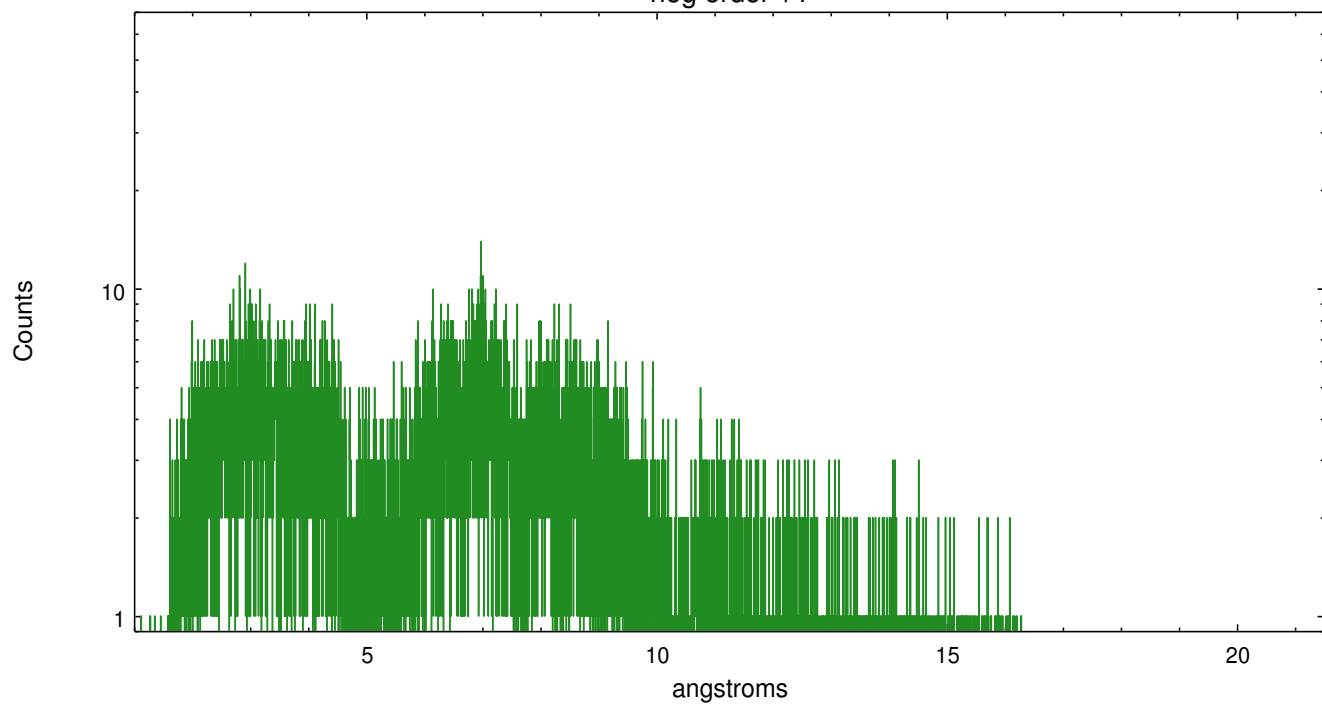
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	525	1370	12815	18055	11691	1034	503



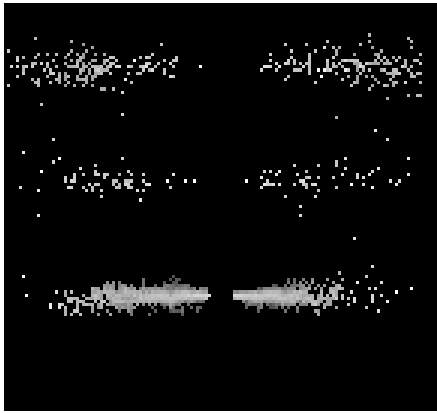
heg order -1



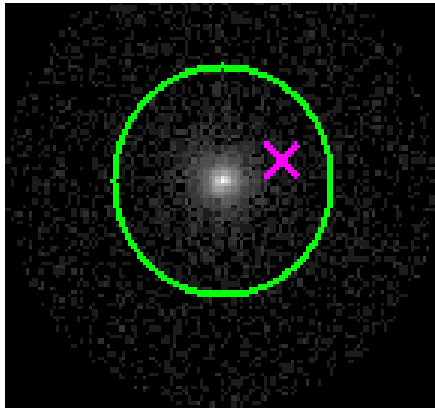
heg order +1



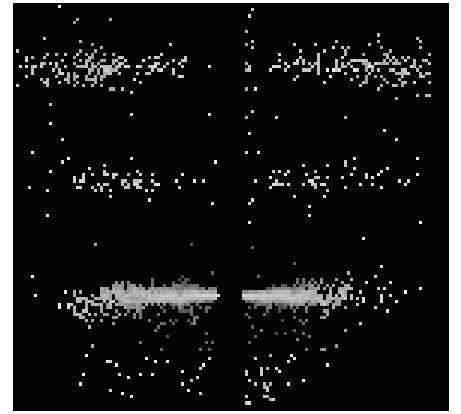
3.2 MEG Arm



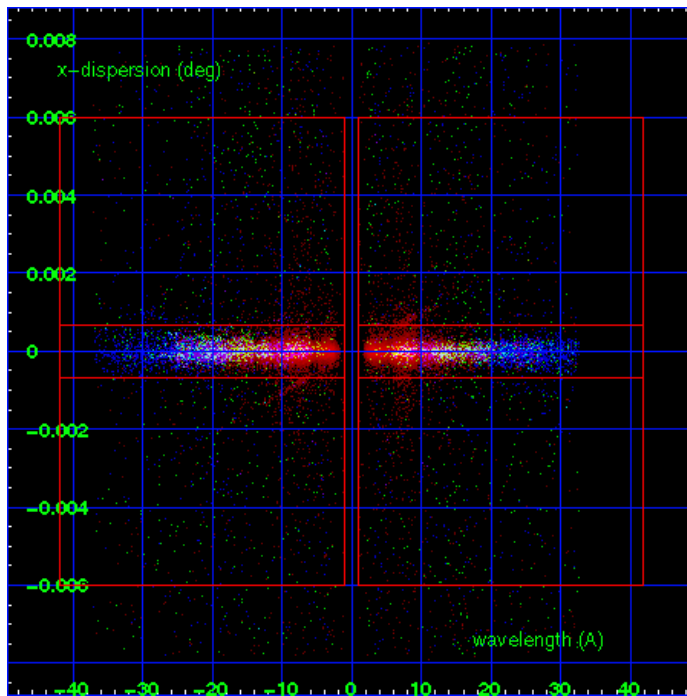
MEG Order Sort 123



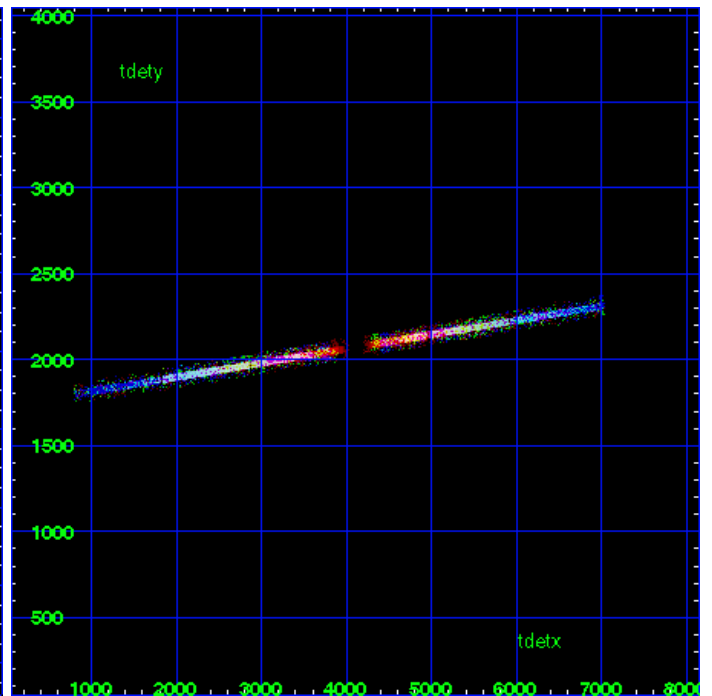
MEG Zero Order



MEG Order Sort ALL

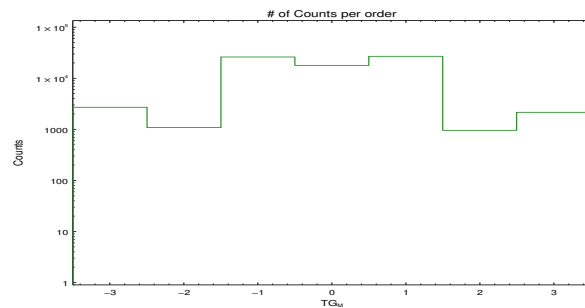


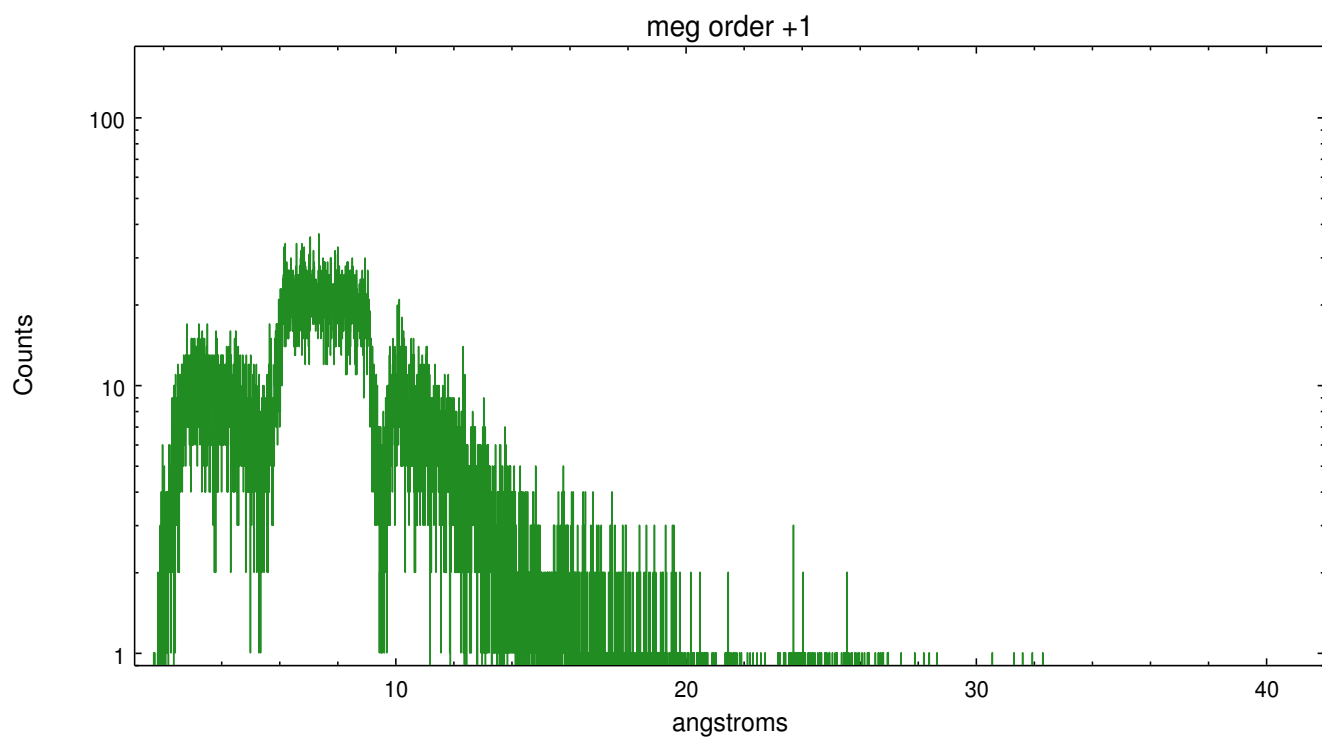
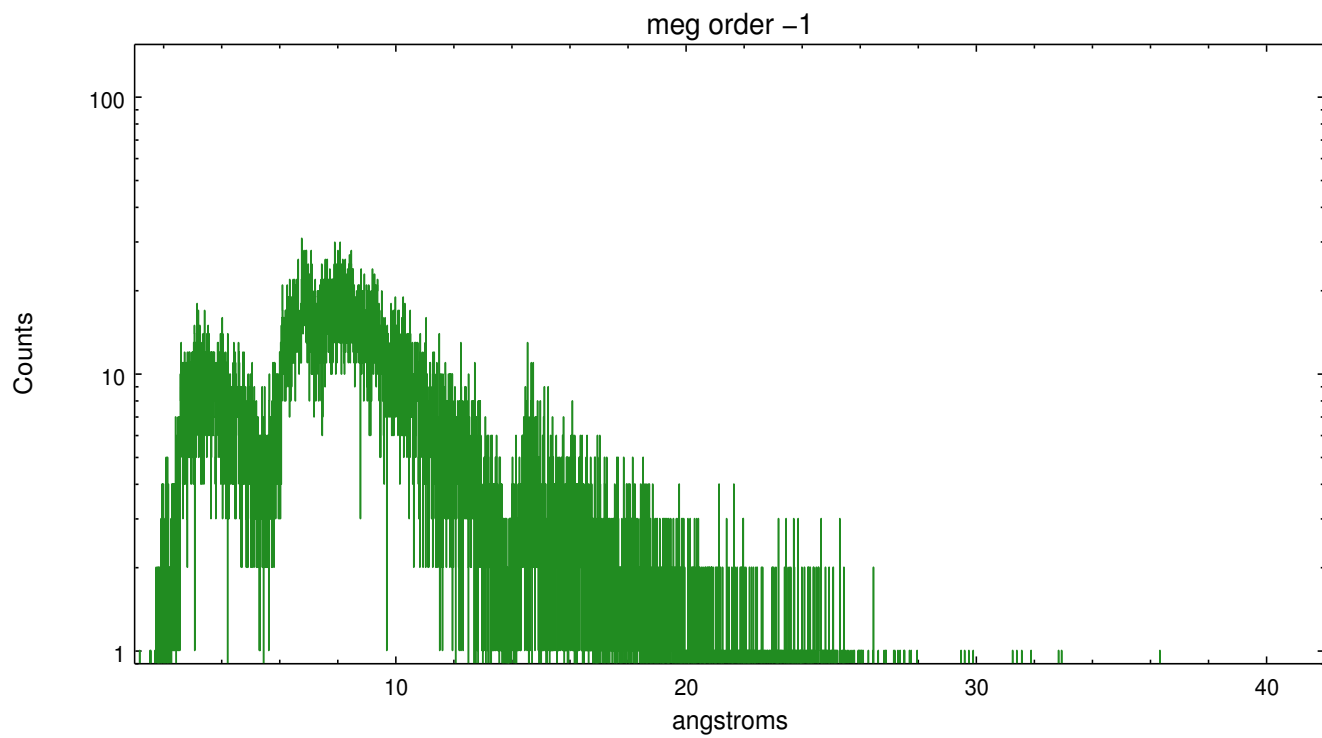
Spot Image MEG



Full Detector MEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	2717	1090	26366	18055	27184	959	2165





A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2013.01.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	55.042

A.2 Comments