

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 12065 - L2 Version 2
Chandra X-Ray Center

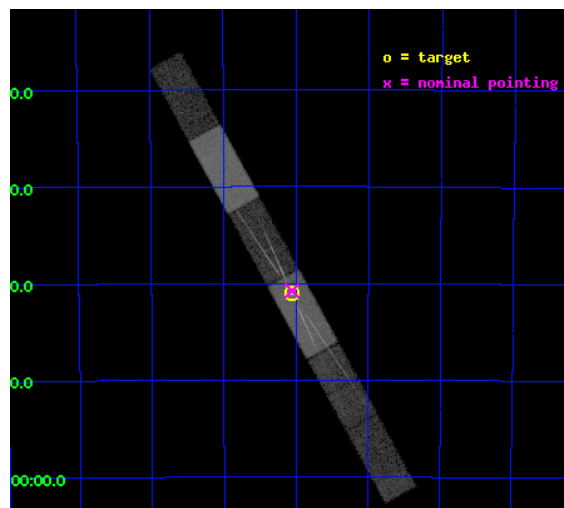
L2 Processing Date : Jun 18 2012

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1 Front

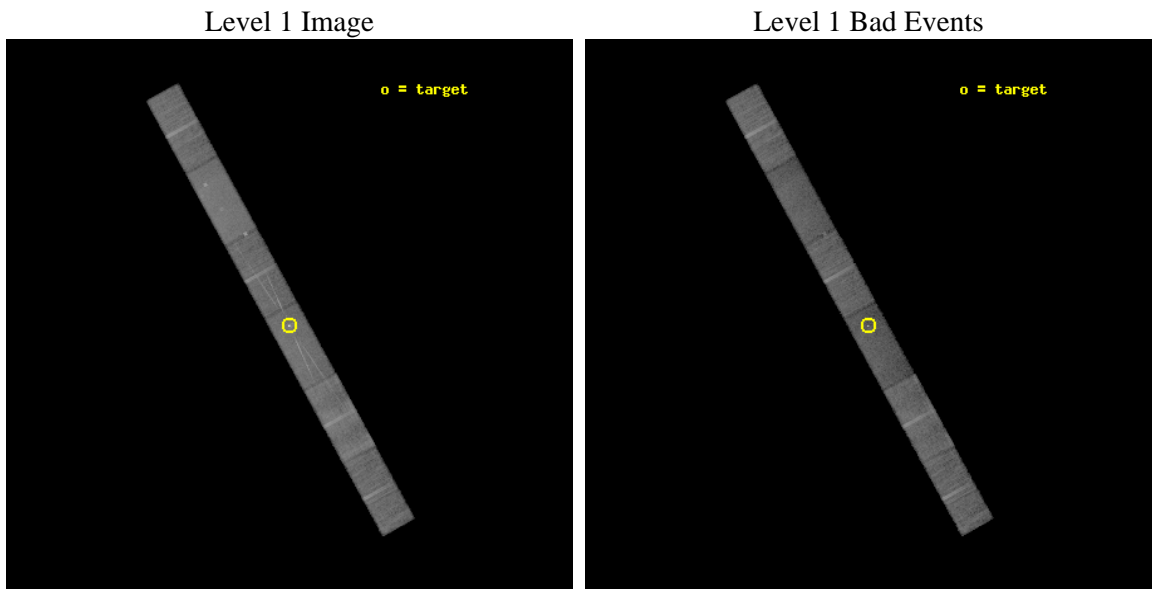
seq_num	200646	Sequence number
obs_id	12065	Observation id
title	Monitoring Dynamical Mass Loss from Eta Car with the HETG	Proposal
observer	Dr Michael Corcoran	Principal investigator
object	Eta Car	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	161.265	Observer's specified target RA [deg]
dec_targ	-59.684528	Observer's specified target Dec [deg]
ra_nom	161.26451832059	Nominal RA [deg]
dec_nom	-59.679696039343	Nominal Dec [deg]
roll_nom	61.156206473502	Nominal Roll [deg]
revision	2	Processing version of data
ontime	19135.5	Sum of GTIs [s]
livetime	18625.895499143	Livetime [s]
ontime4	19135.5	Sum of GTIs [s]
ontime5	19135.5	Sum of GTIs [s]
ontime6	19135.5	Sum of GTIs [s]
ontime7	19135.5	Sum of GTIs [s]
ontime8	19135.5	Sum of GTIs [s]
ontime9	19135.5	Sum of GTIs [s]
l2events	146986	Number of level 2 events



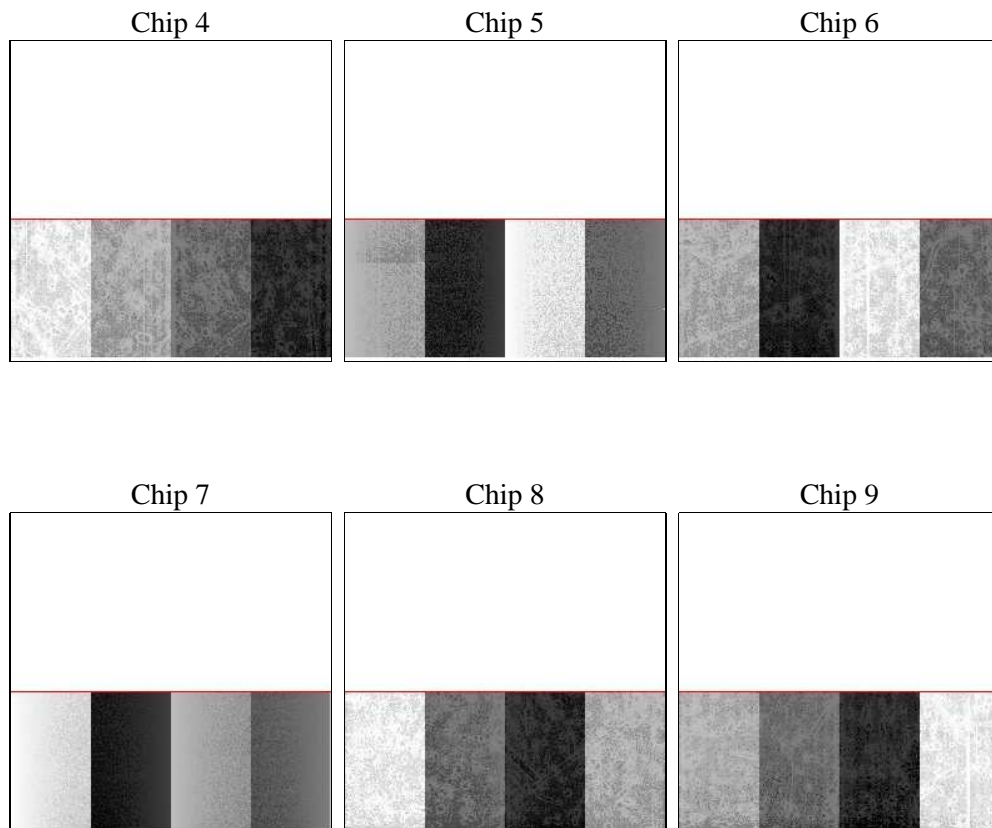
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	19000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	19135.5	Sum of GTIs [s]
caldbver	4.4.10	 	ontime4	19135.5	Sum of GTIs [s]
date	2012-06-18T18:59:48	Date and time of file creation	ontime5	19135.5	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	19135.5	Sum of GTIs [s]
			ontime7	19135.5	Sum of GTIs [s]
			ontime8	19135.5	Sum of GTIs [s]
			ontime9	19135.5	Sum of GTIs [s]
			l1events	573850	Number of level 1 events

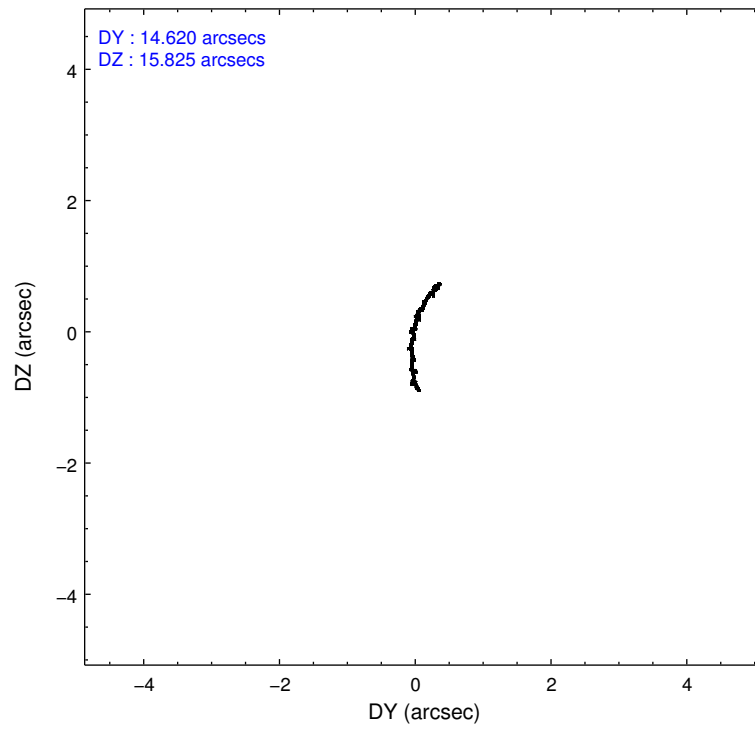
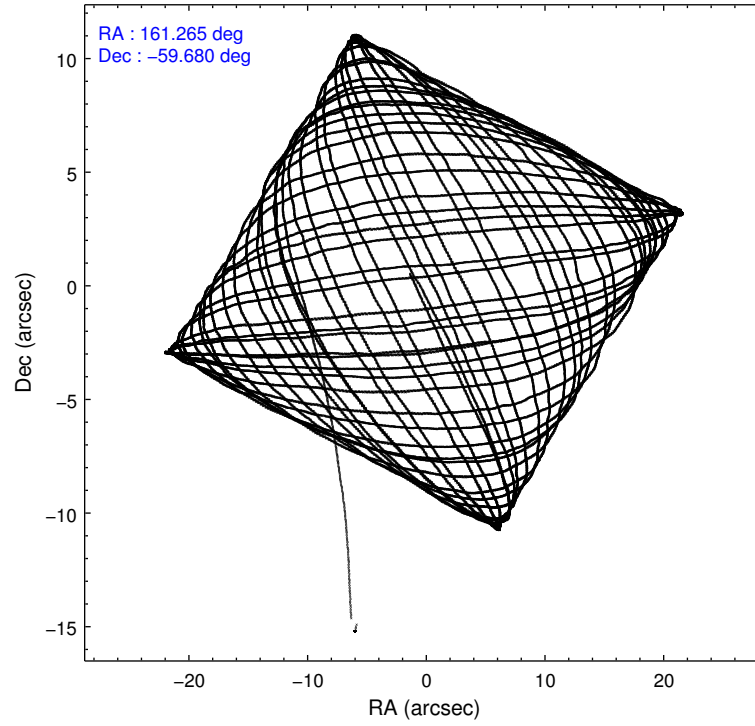
2.1.4 Events

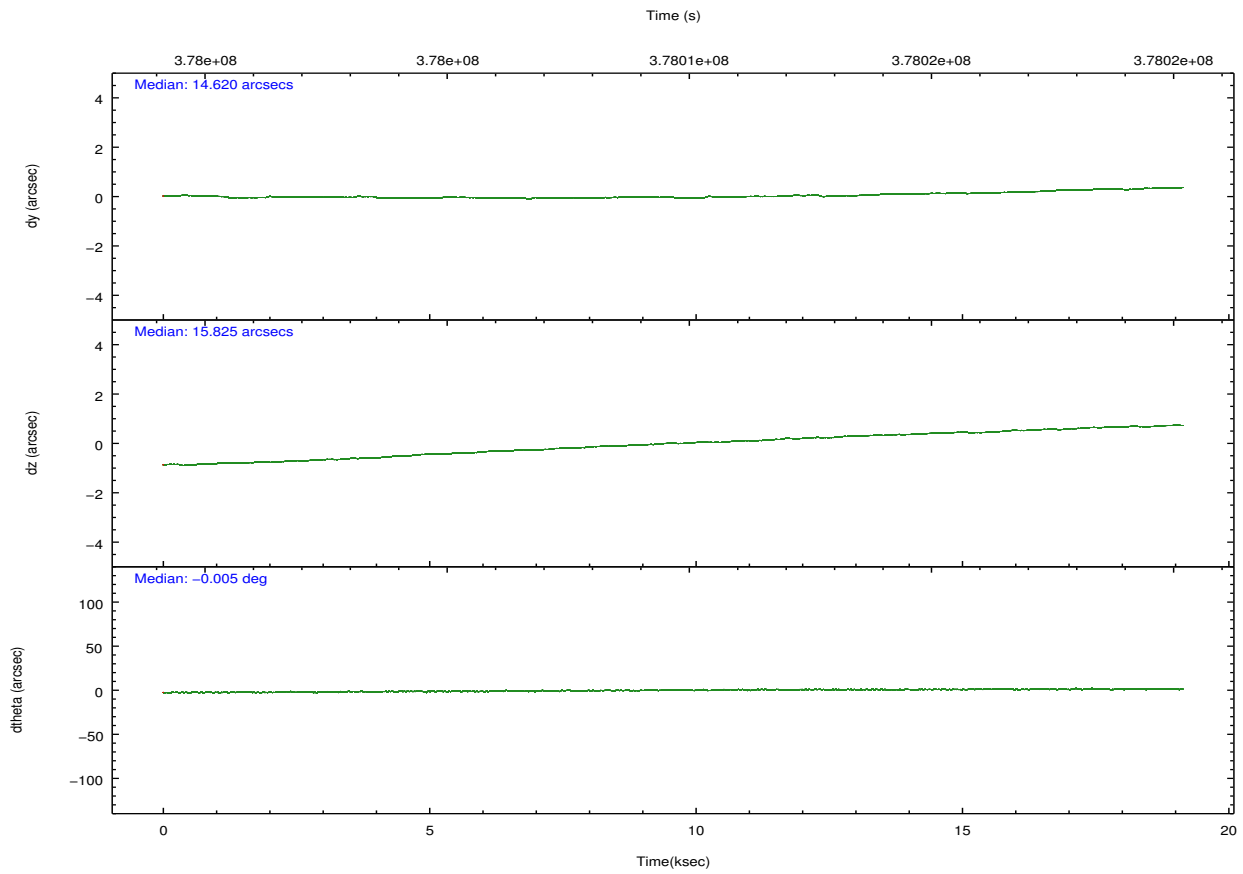
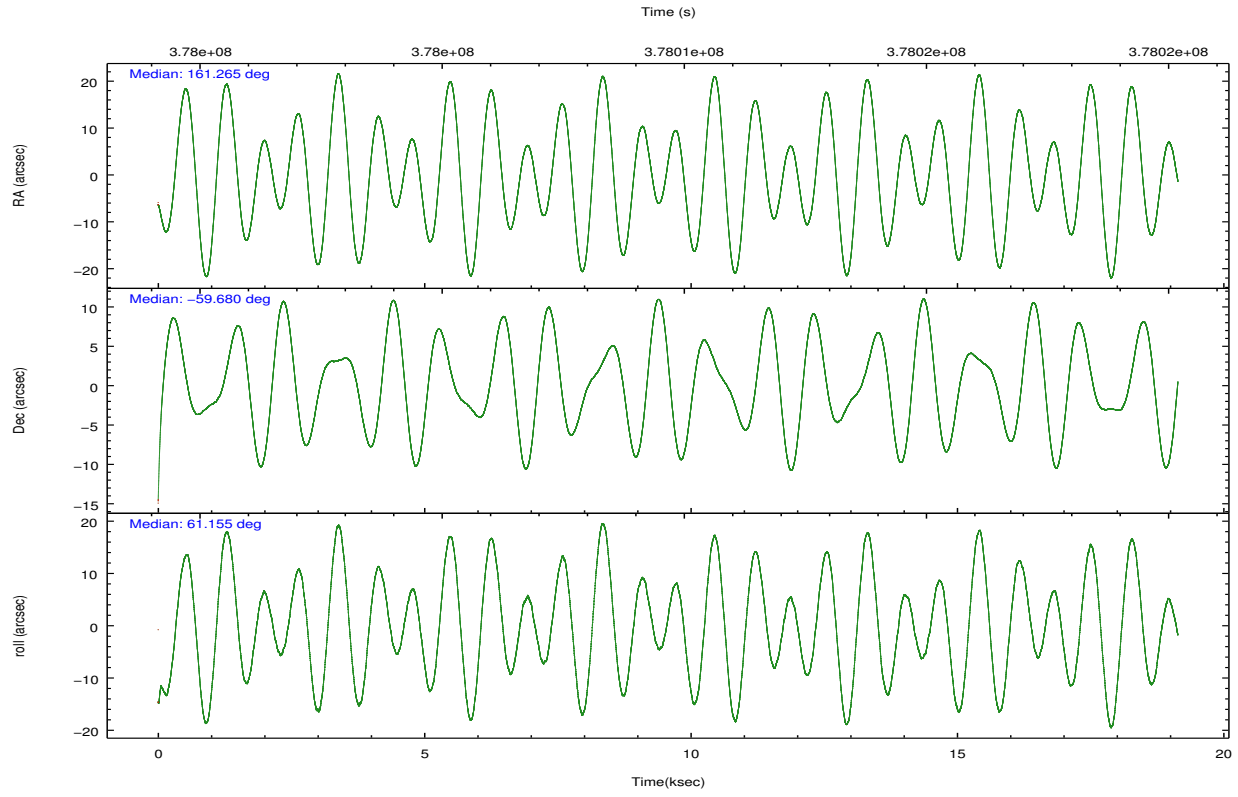
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	89567	109355	84585	104255	108930	77158	grade 0 events	3631	7087	7536	6984	9941	3905
rejected events	79704	53629	69653	47807	79440	67267		4%	6%	8%	6%	9%	5%
rejected %	88%	49%	82%	45%	72%	87%	grade 1 events	36	420	34	194	71	39
								0%	0%	0%	0%	0%	0%
							grade 2 events	2492	15571	2829	12674	6115	2036
								2%	14%	3%	12%	5%	2%
							grade 3 events	1187	3483	1353	5722	3262	1228
								1%	3%	1%	5%	2%	1%
							grade 4 events	1080	3355	1372	5987	2928	1113
								1%	3%	1%	5%	2%	1%
							grade 5 events	2832	9230	2974	9292	4302	3230
								3%	8%	3%	8%	3%	4%
							grade 6 events	1613	27312	2066	25906	7771	1782
								1%	24%	2%	24%	7%	2%
							grade 7 events	76696	42897	66421	37496	74540	63825
								85%	39%	78%	35%	68%	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	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	161.266366	161.2645183205919	CCD I2 on	N	N
[deg] Pointing Dec	-59.707011	-59.6796960393433	CCD I3 on	N	N
[deg] Pointing Roll	61.001186	61.15620647350212	CCD S0 on	O1	Y
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	Y	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-183.332523	-183.3212429520412	CCD S3 on	Y	Y
[mm] SIM translation stage offset	-6.8	-6.811279630966652	CCD S4 on	Y	Y
[s] Observation start time (MET)	378000233.184000	377999082.77671	CCD S5 on	O2	Y
Observation start date	2009-12-24T00:02:47	2009-12-23T23:44:42	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	378019233.184000	378020527.3153	On-chip summing requested	N	N
Observation end date	2009-12-24T05:19:27	2009-12-24T05:42:07	Subarray requested	CUSTOM	CUSTOM
Read mode	TIMED	TIMED	Subarray start row	15	15
			Subarray row count	440	440
			Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	1.5

2.3 Aspect



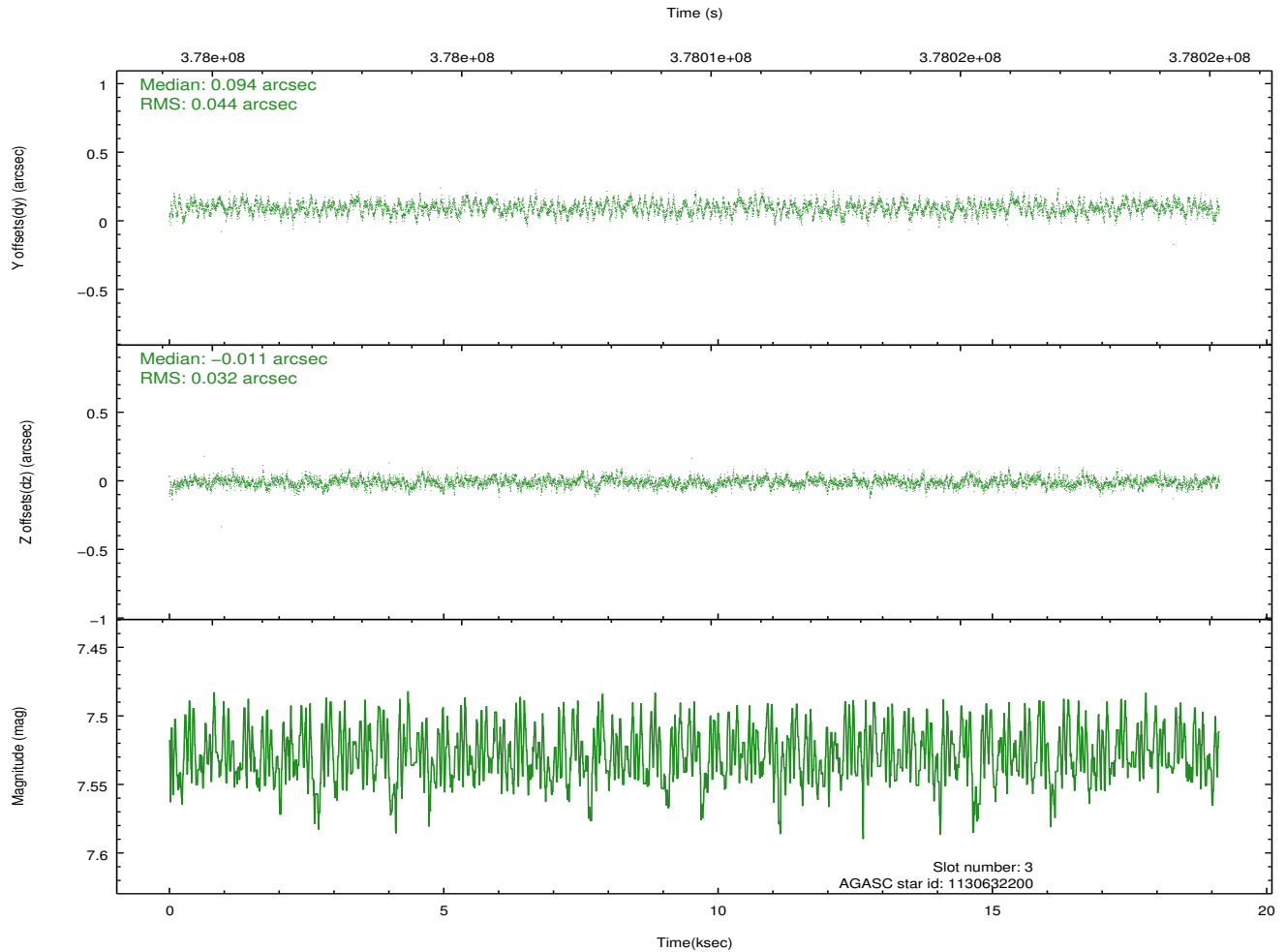
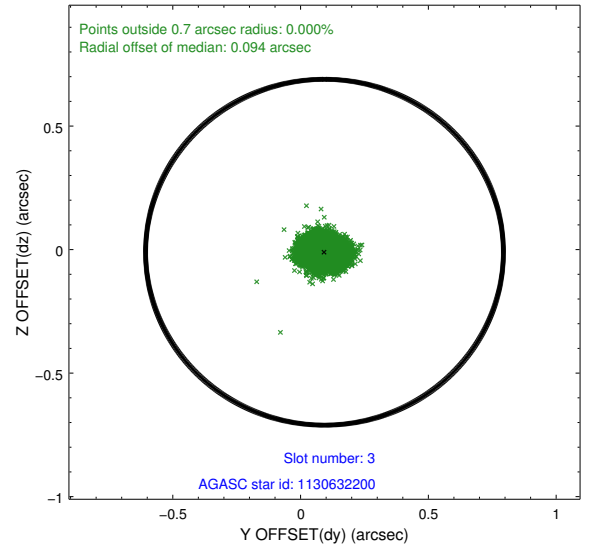
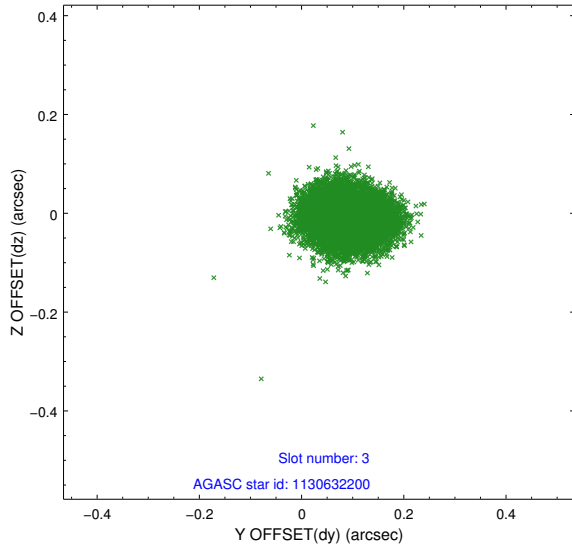


Slot Statistics

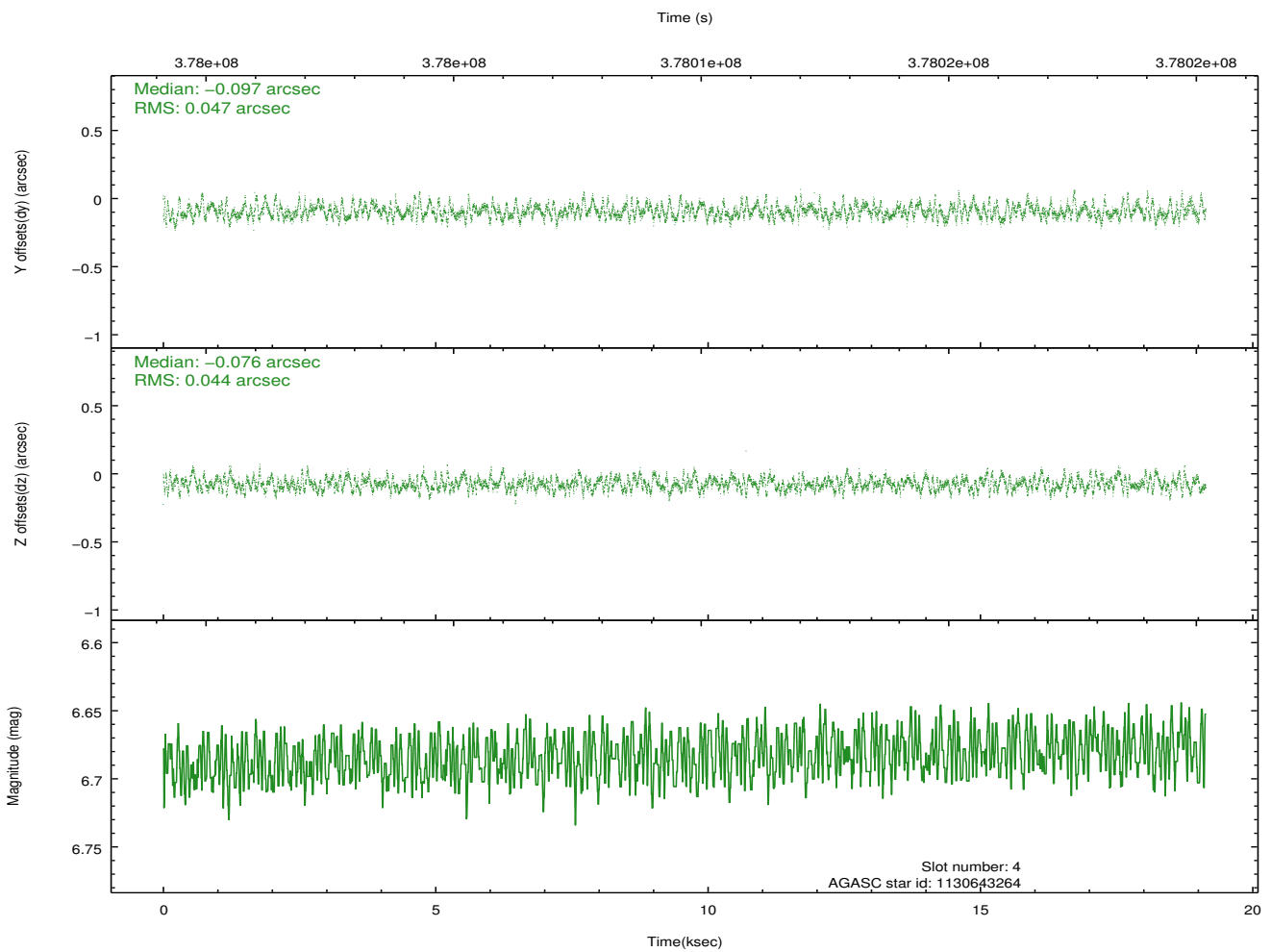
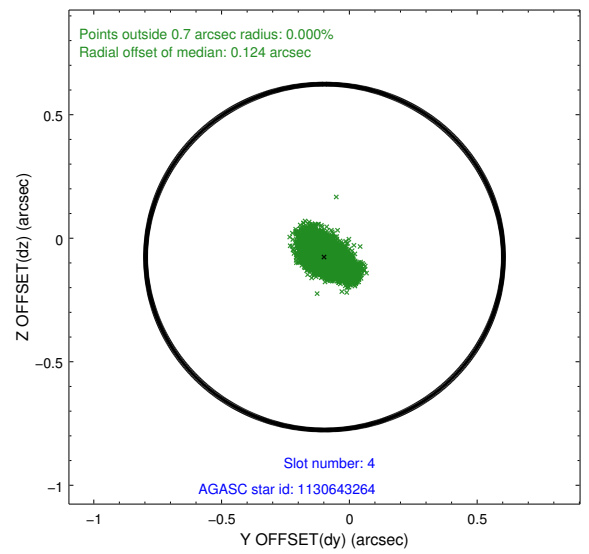
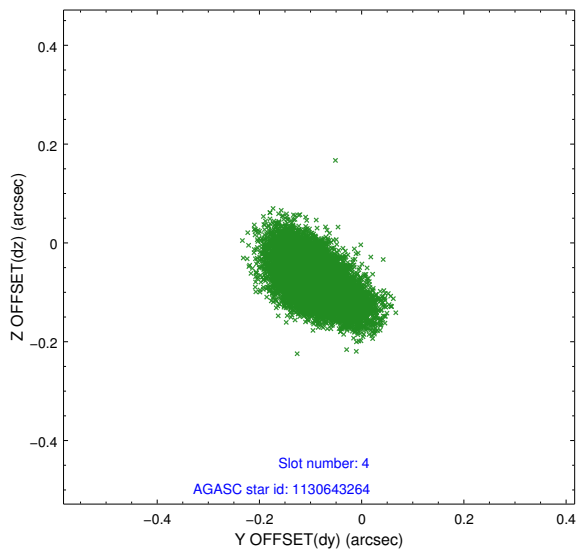
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	6.95	4669	0.058	0.081	0.025	0.034	0.000000	0.000000	928.93	-1873.10
1	FID	ACIS-S-4	6.94	4669	0.144	-0.080	0.020	0.030	0.000000	0.000000	2146.55	30.64
2	FID	ACIS-S-5	6.99	4667	-0.228	0.010	0.008	0.012	0.000000	0.000000	-1819.96	24.57
3	GUIDE	1130632200	7.53	9337	0.094	-0.011	0.058	0.092	161.433843	-59.407820	1090.70	253.76
4	GUIDE	1130643264	6.68	9338	-0.097	-0.076	0.067	0.115	160.322990	-59.676912	-746.98	1546.33
5	GUIDE	1130632064	8.51	9333	-0.182	-0.144	0.066	0.108	160.452382	-59.130948	1076.77	2316.11
6	GUIDE	1174012960	7.16	9335	0.180	0.224	0.058	0.089	160.855674	-60.332270	-2325.05	-451.73
7	UNUSED		0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00

2.4 Star Slots

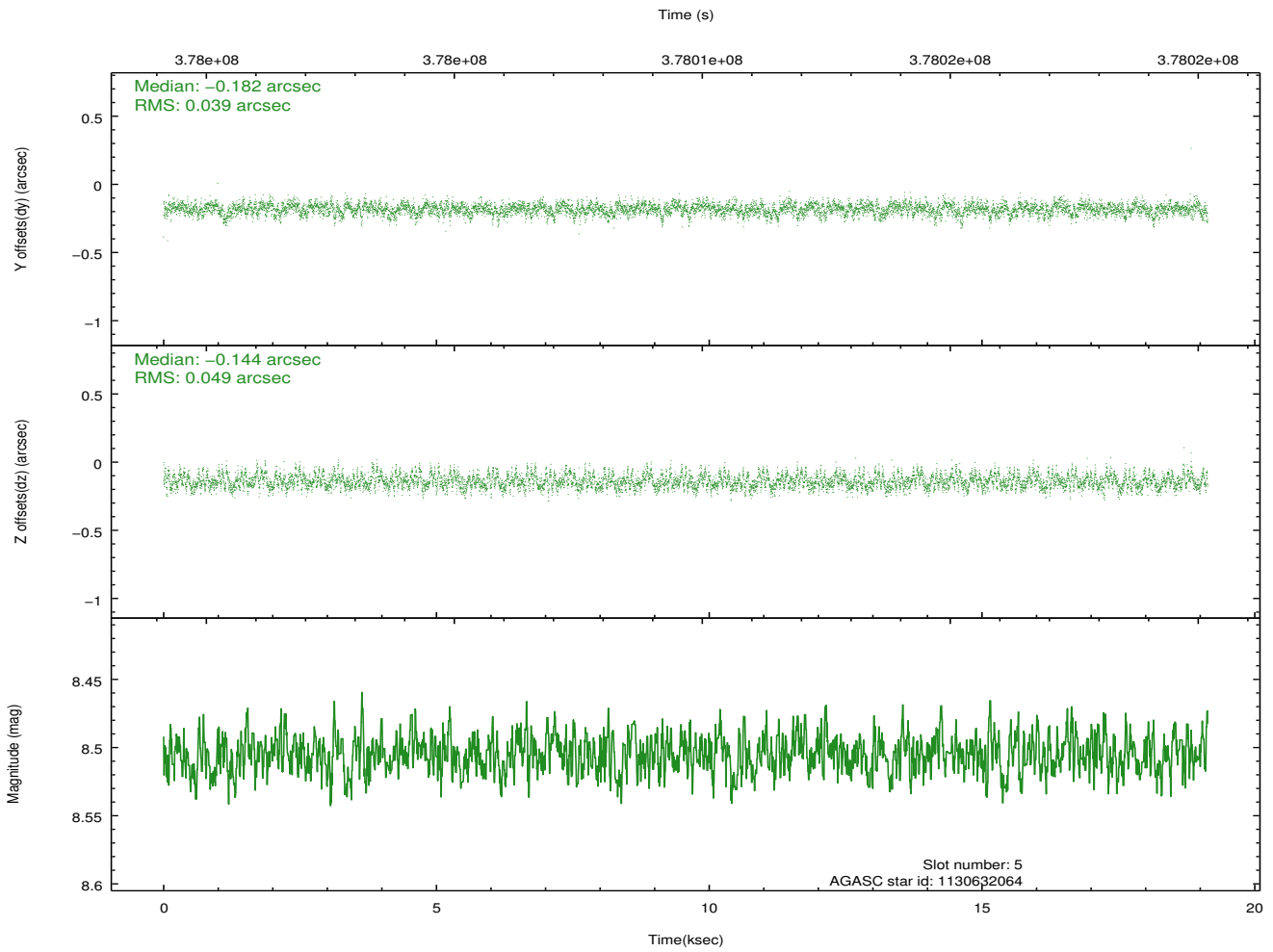
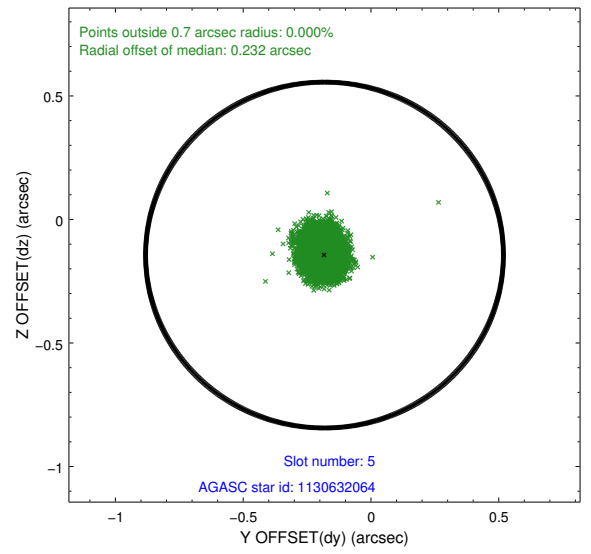
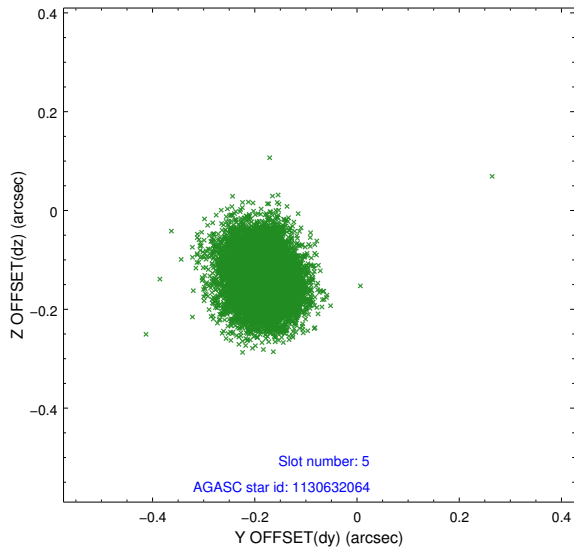
2.4.1 Slot 3



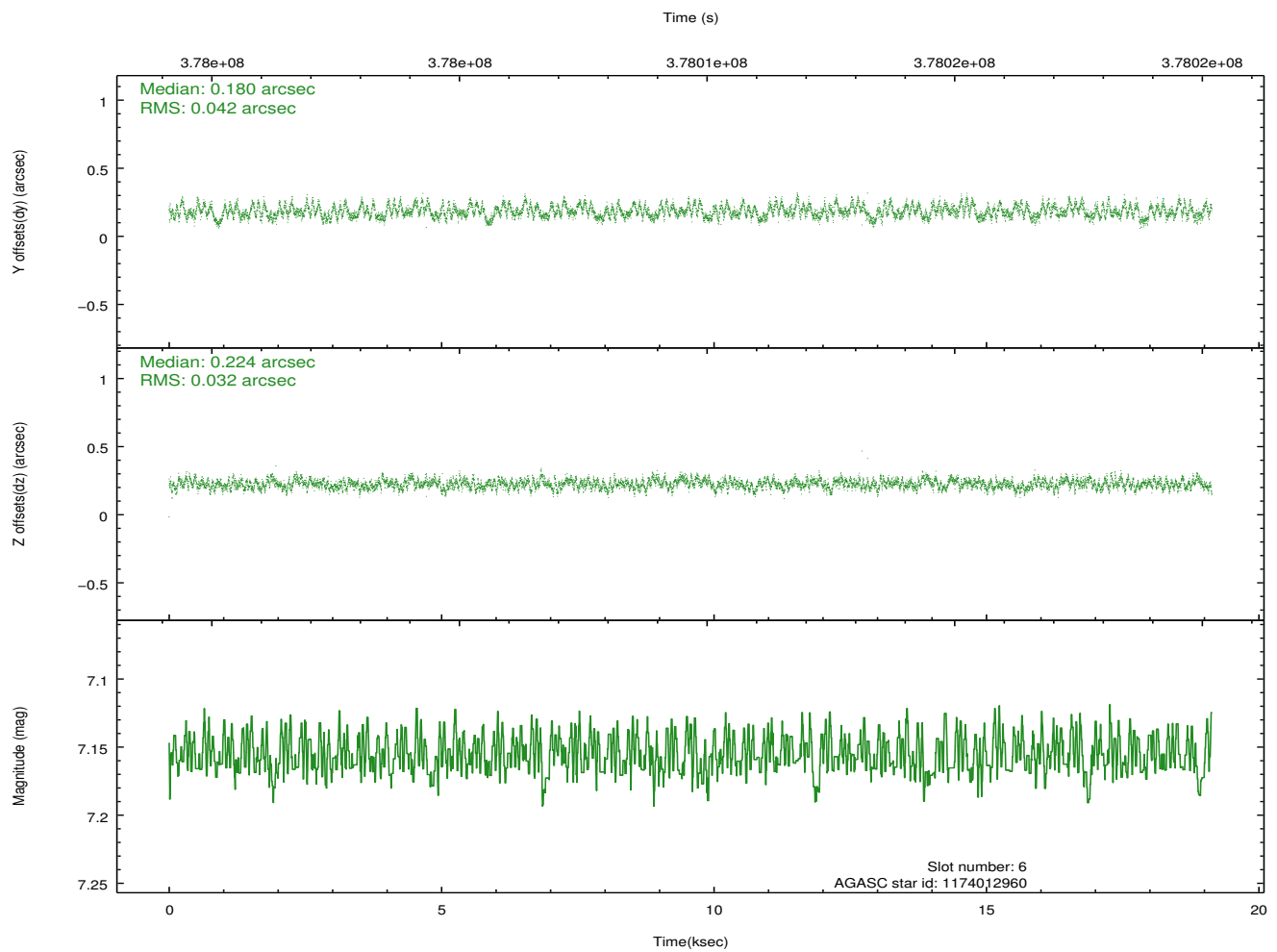
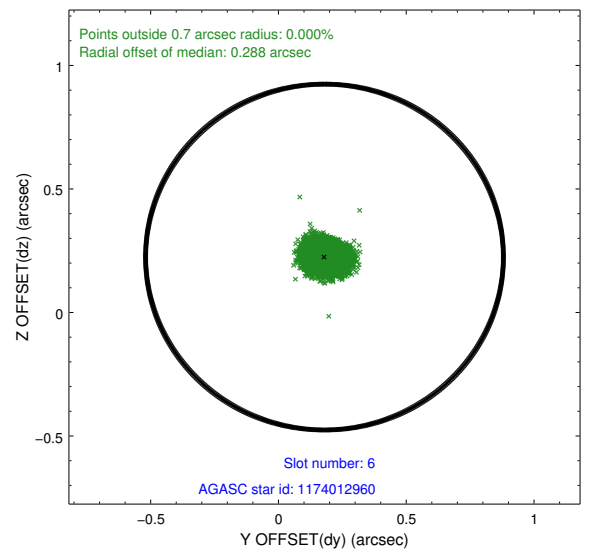
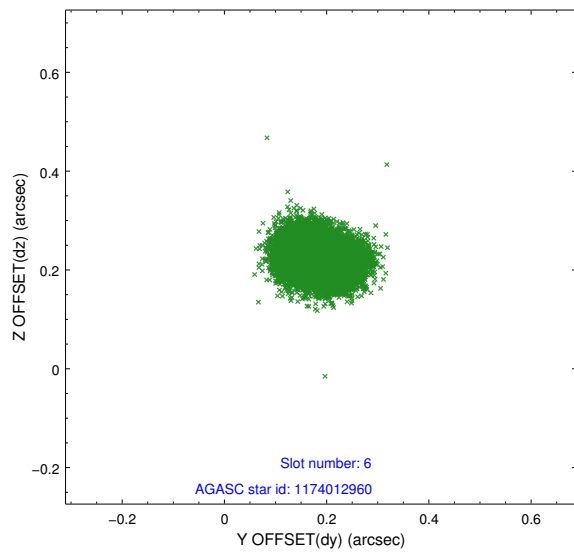
2.4.2 Slot 4



2.4.3 Slot 5

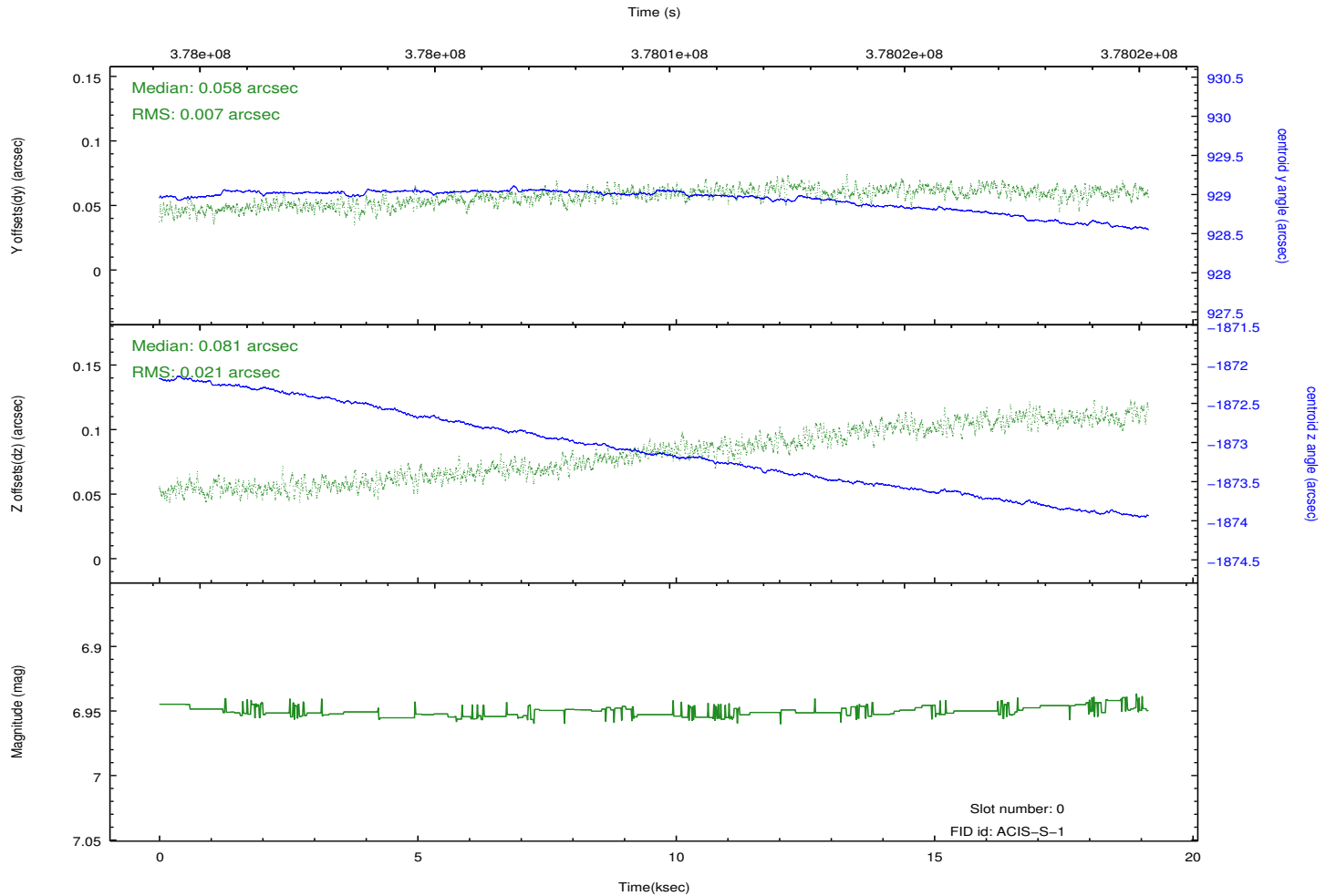
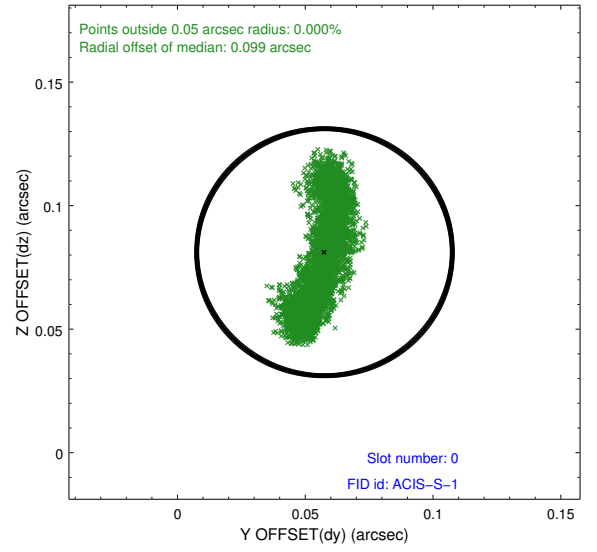
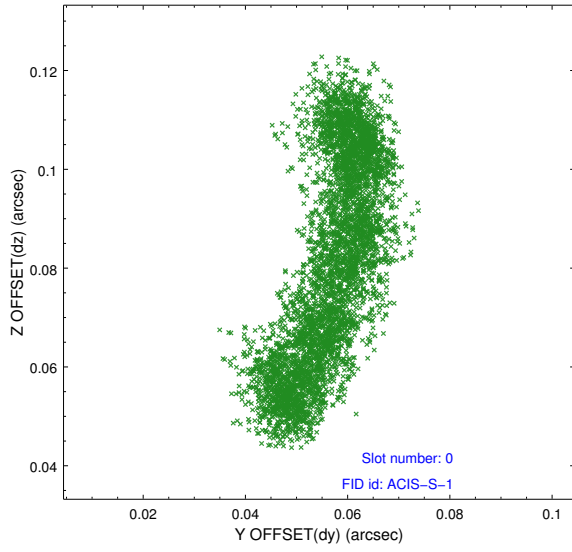


2.4.4 Slot 6

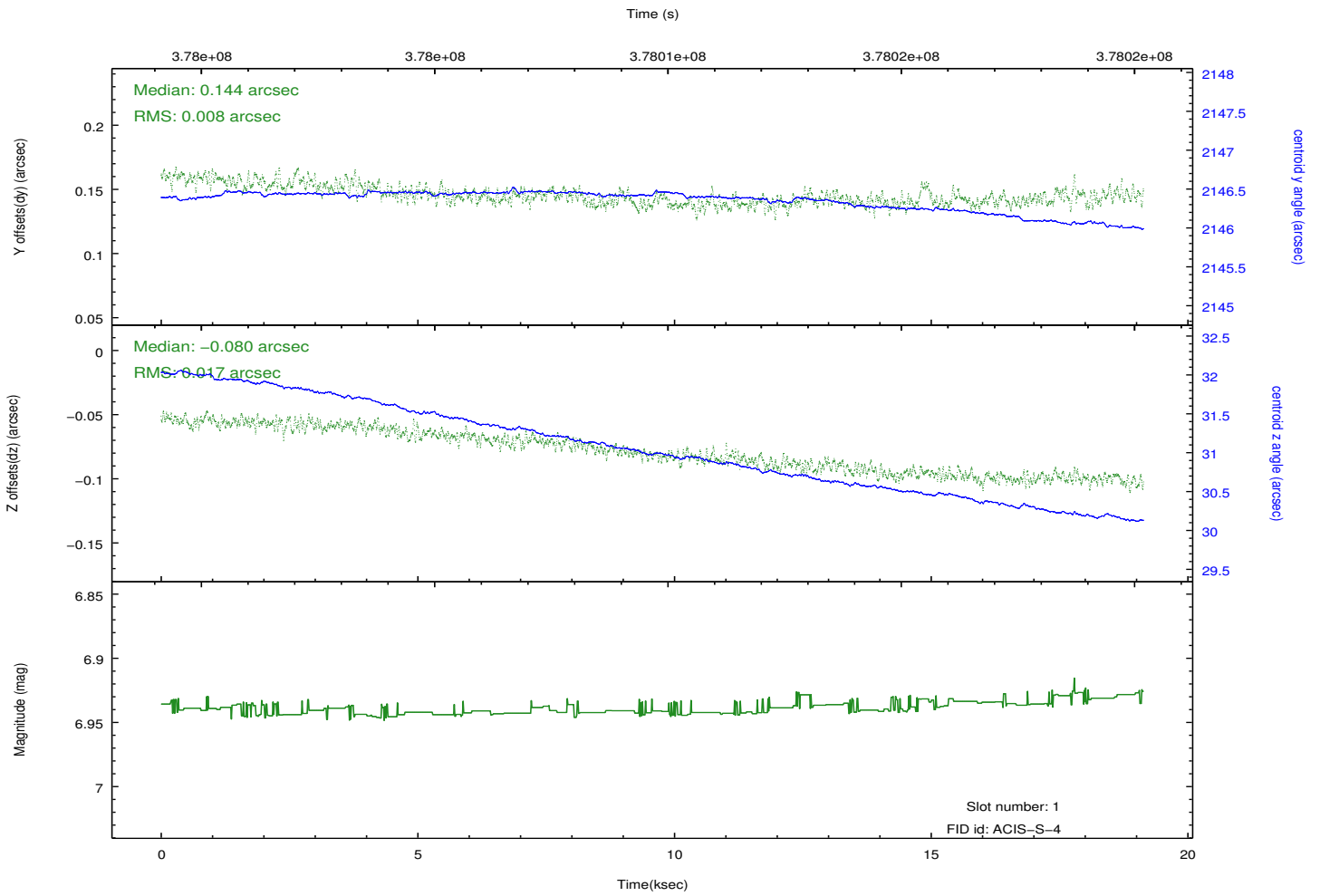
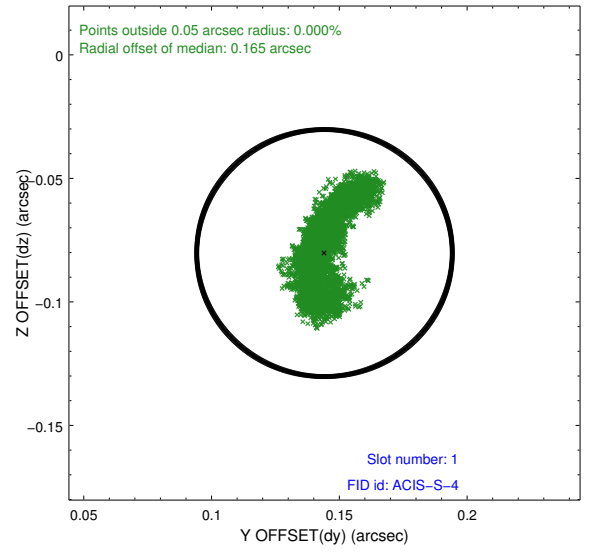
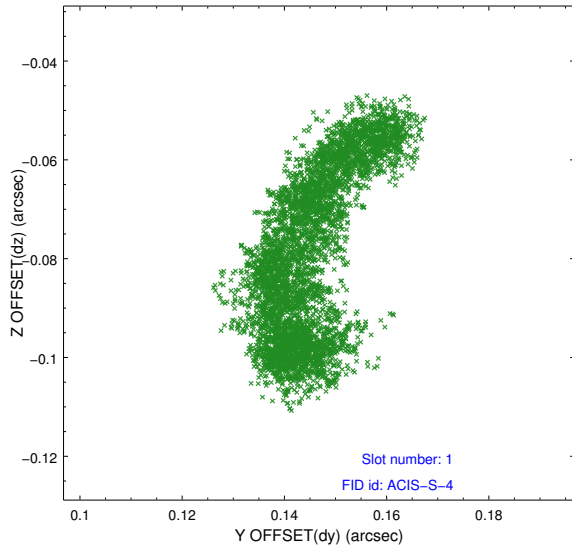


2.5 FID Slots

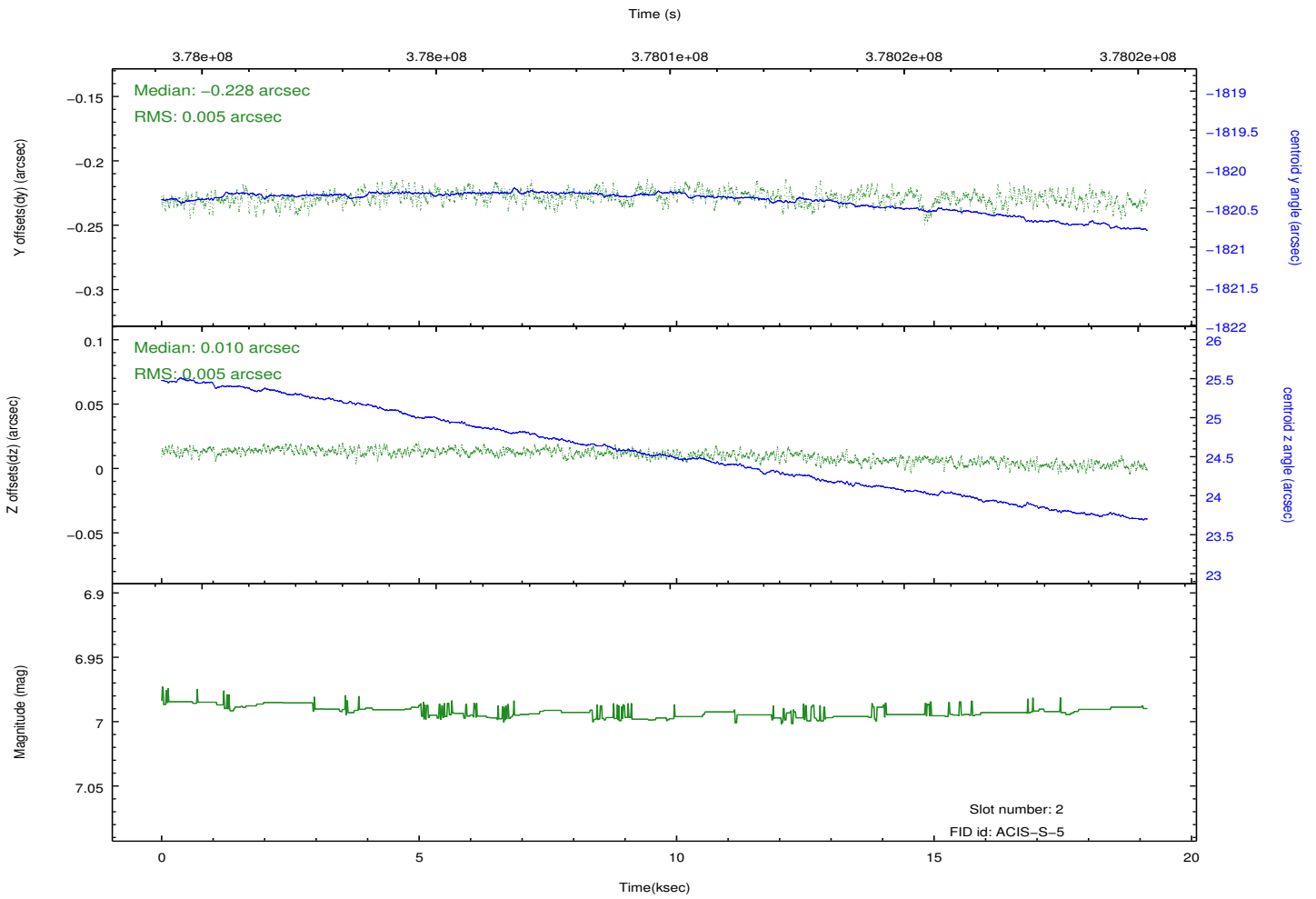
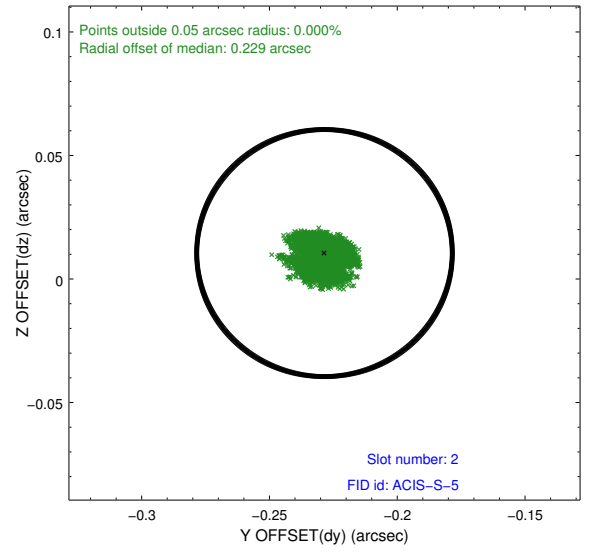
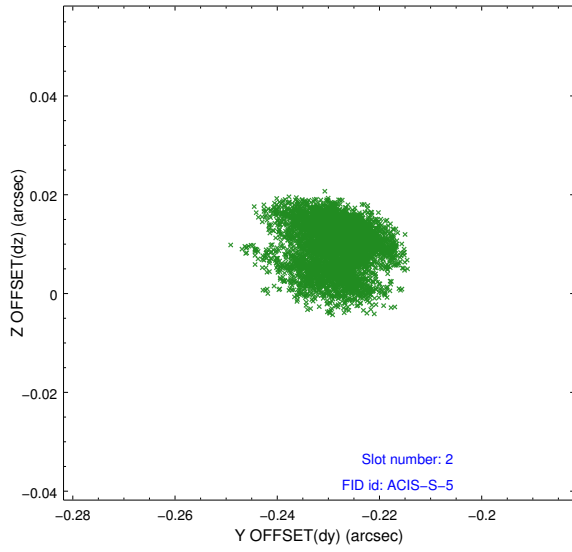
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2

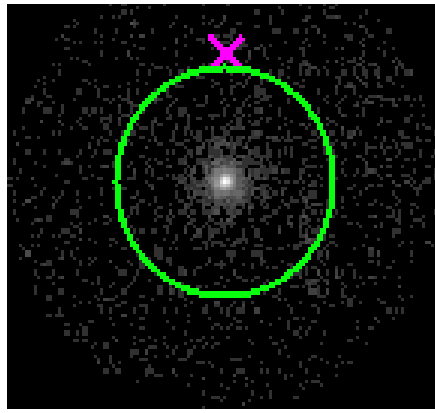


3 Gratings

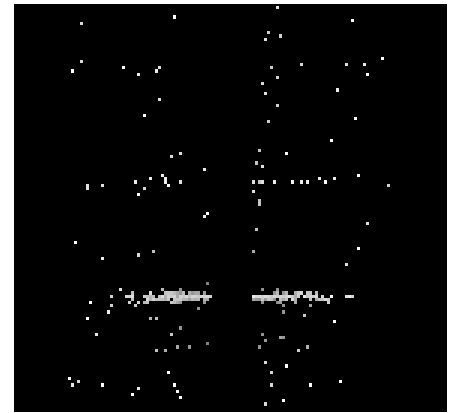
3.1 HEG Arm



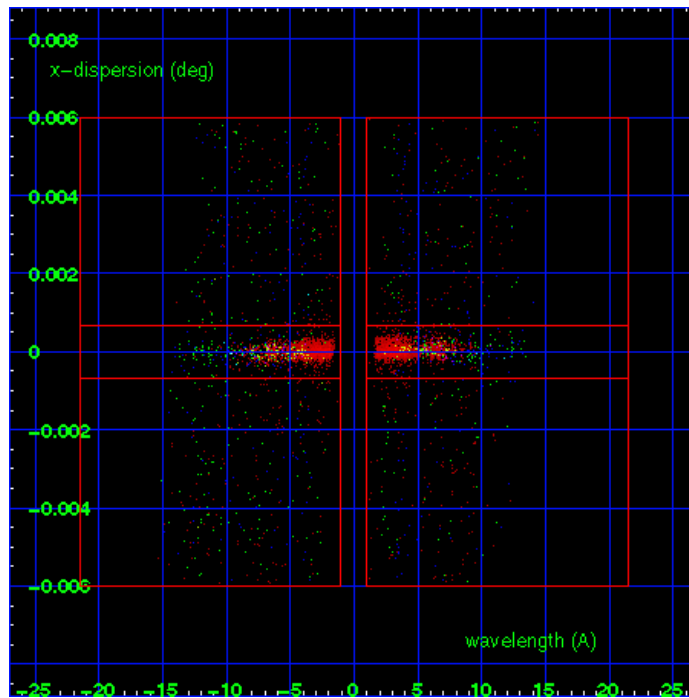
HEG Order Sort 123



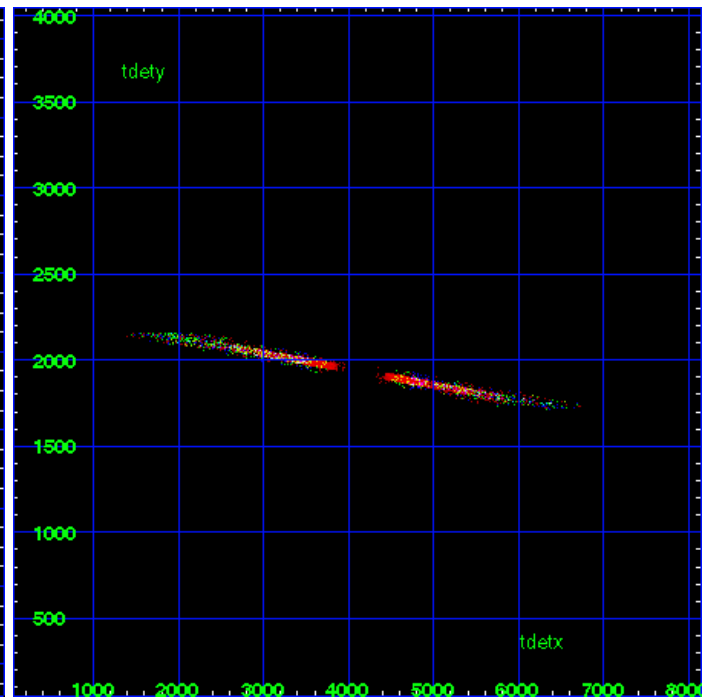
HEG Zero Order



HEG Order Sort ALL

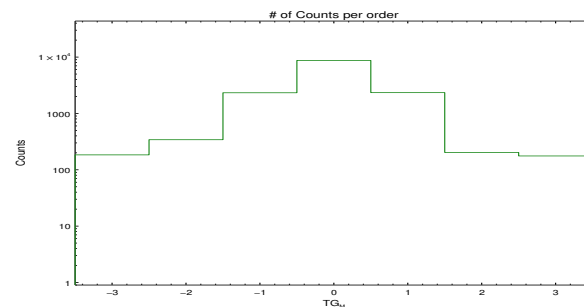


Spot Image HEG

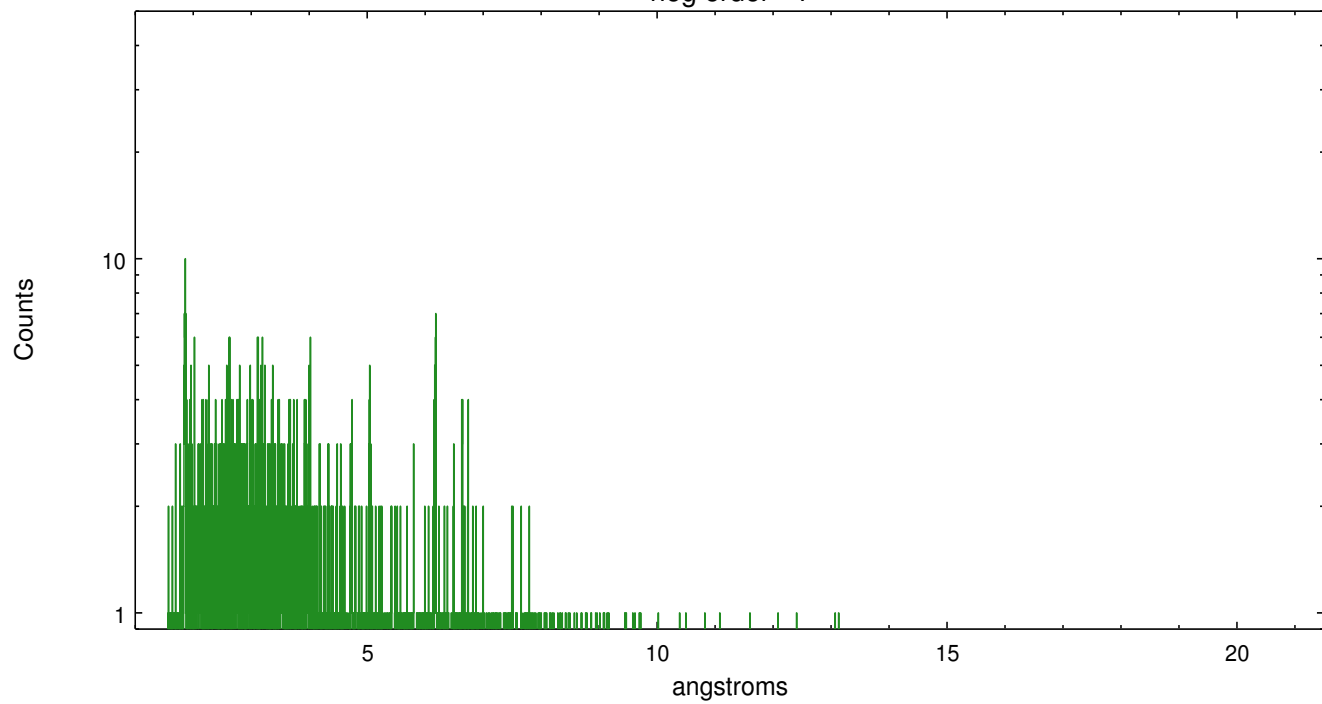


Full Detector HEG

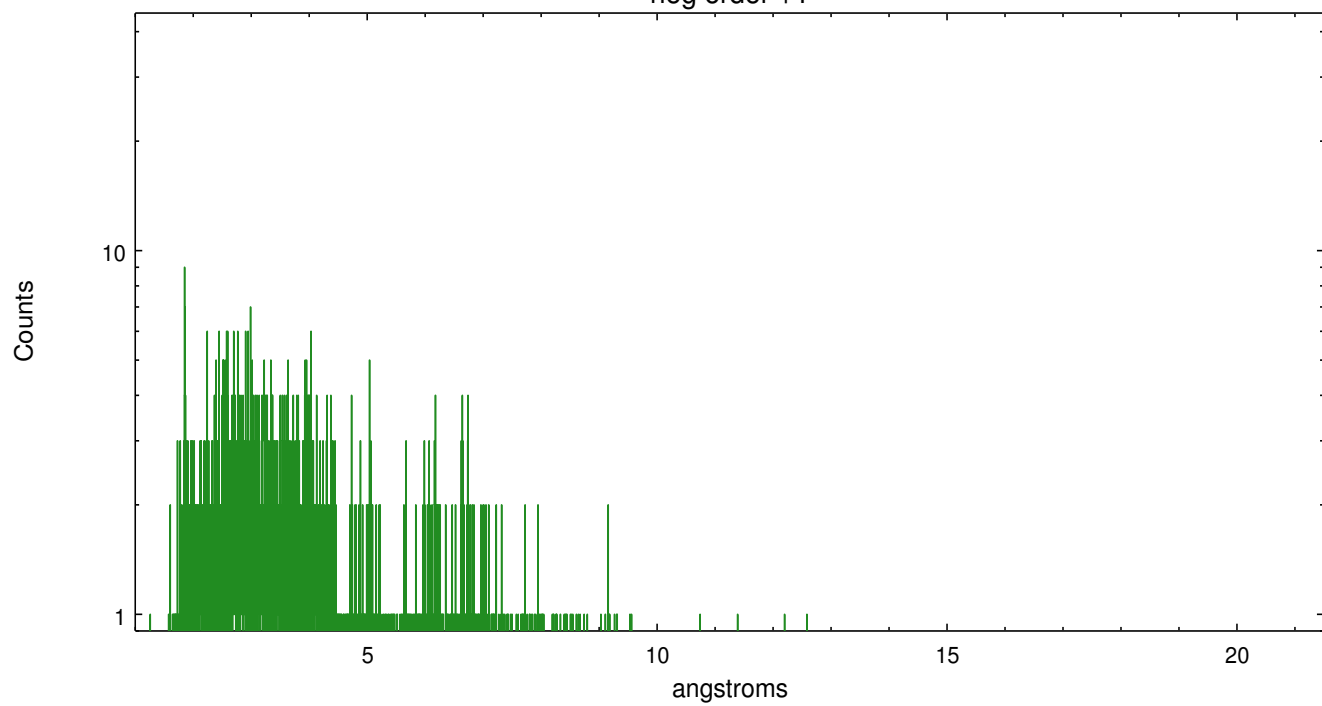
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	184	342	2329	8728	2342	203	176



heg order -1



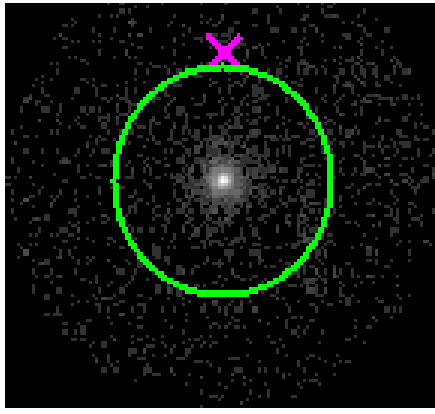
heg order +1



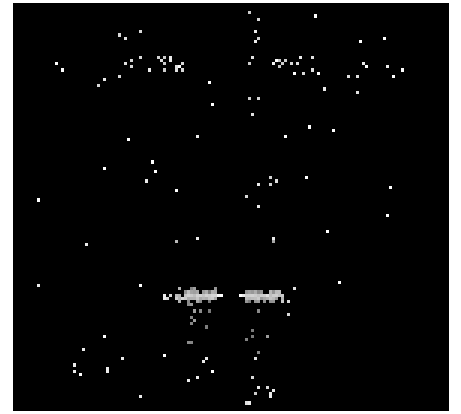
3.2 MEG Arm



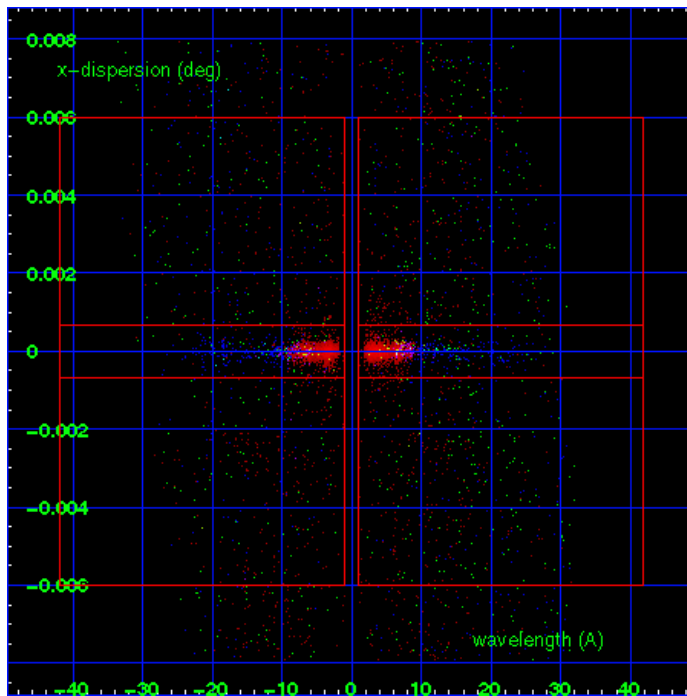
MEG Order Sort 123



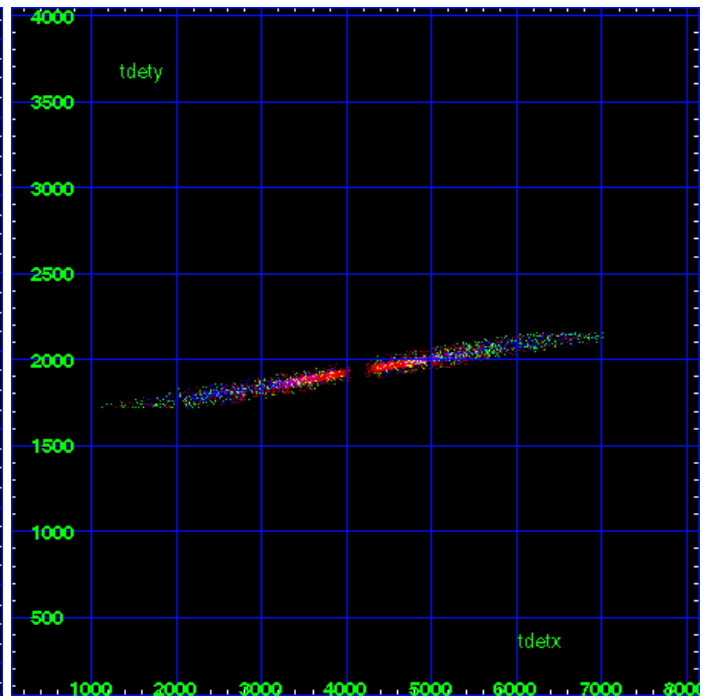
MEG Zero Order



MEG Order Sort ALL

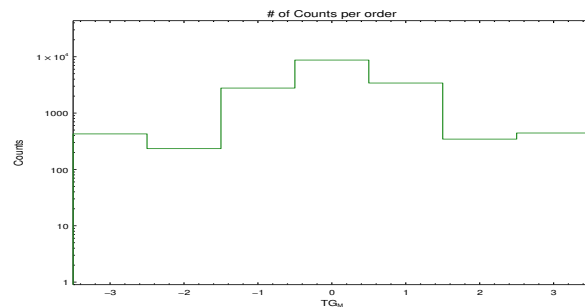


Spot Image MEG

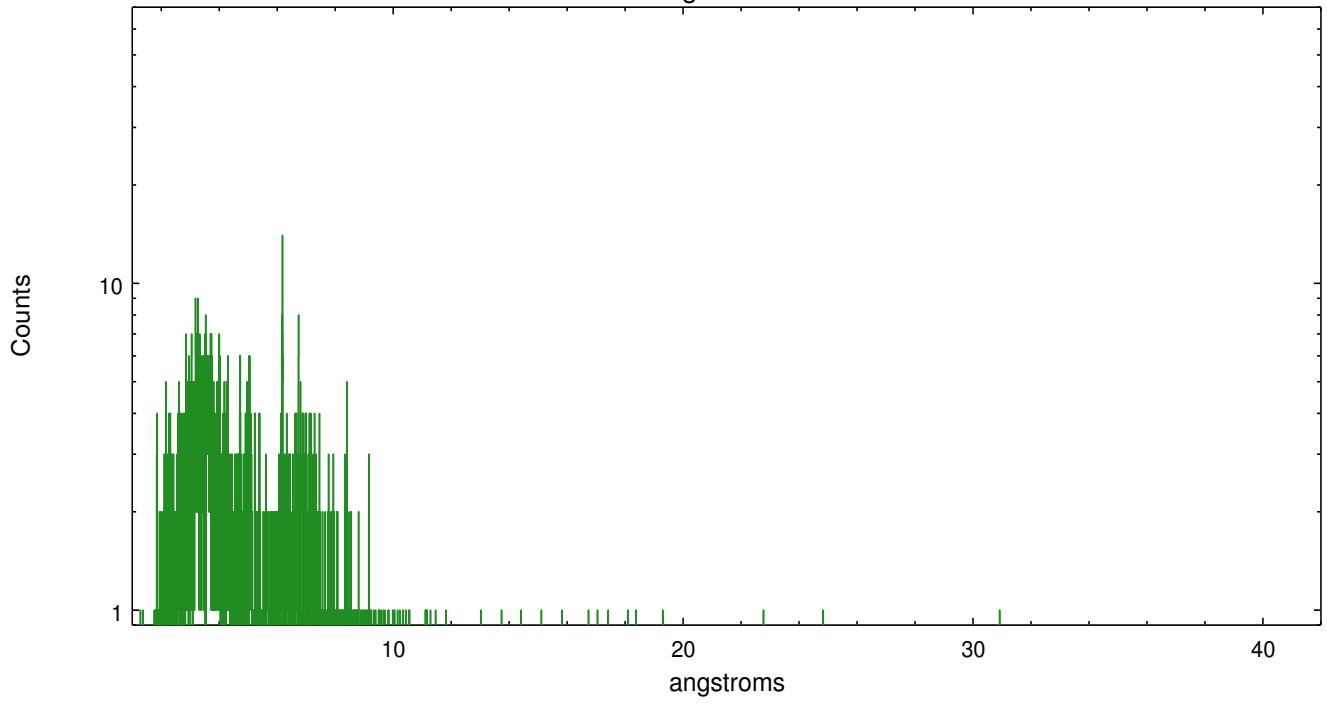


Full Detector MEG

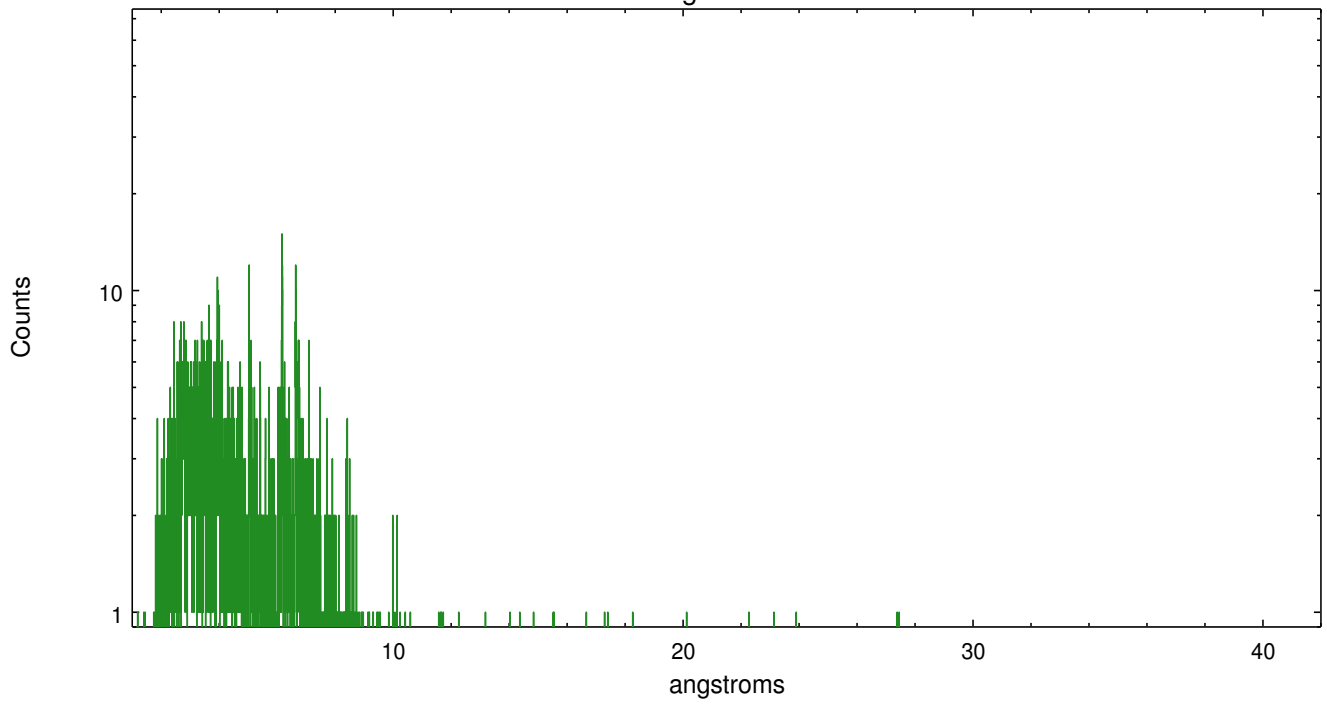
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	427	234	2779	8728	3414	345	443



meg order -1



meg order +1



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.06.21
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	19.1355

A.2 Comments

Spatially complex field. Extraction centered on zeroth order position that was automatically selected by the software (tgdetect).

===

Optical photometry of target in guide star slot 7.