

V&V Reference Report

L2 ASCDS Version : 8.2.1

Observation 1507 - L2 Version 4
Chandra X-Ray Center

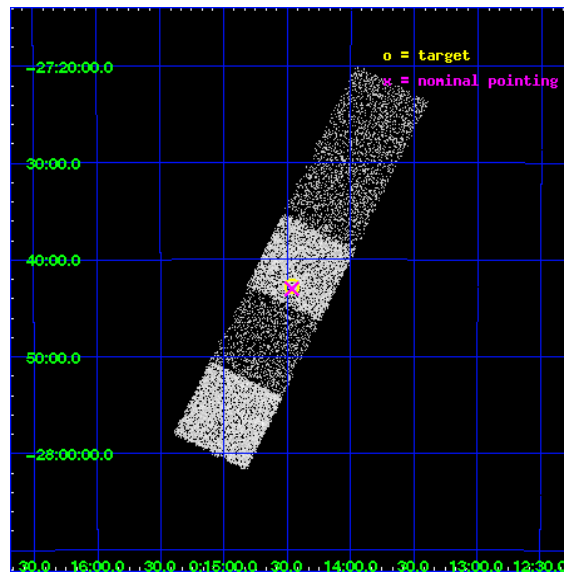
L2 Processing Date : Jan 26 2010

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1 Front

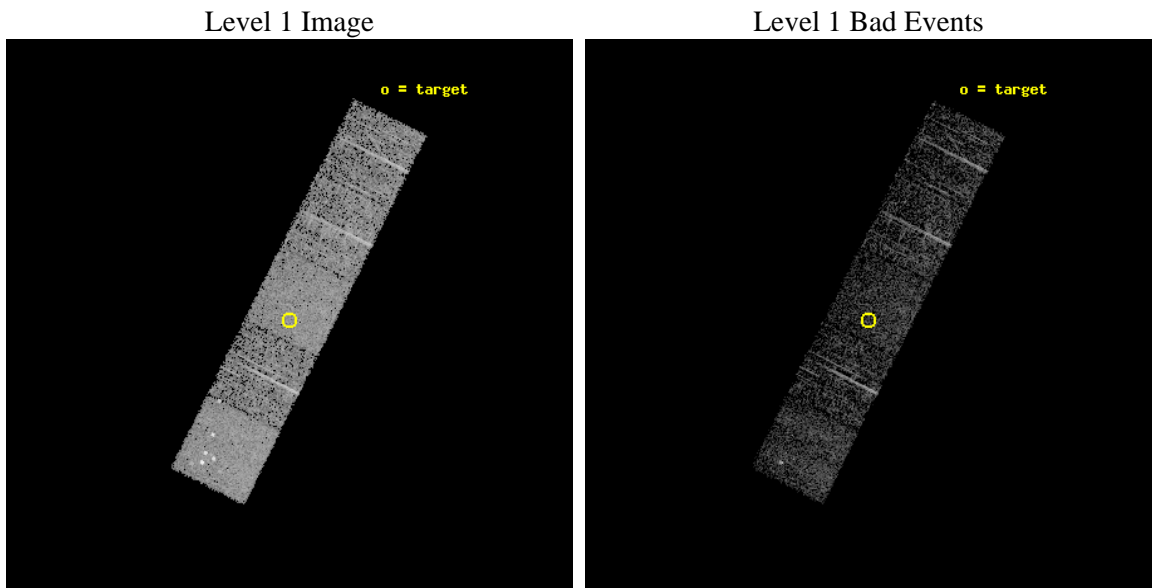
seq_num	980457	Sequence number
obs_id	1507	Observation id
title	 	Proposal title
observer	DR. CXC CALIBRATION	Principal investigator
object	SI Safing Test 1	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	3.6151	Observer's specified target RA
dec_targ	-27.712284	Observer's specified target Dec
ra_nom	3.615767394507	Nominal RA
dec_nom	-27.717238835599	Nominal Dec
roll_nom	296.56297564885	Nominal Roll
revision	4	Processing version of data
ontime	2361.6277037039	Sum of GTIs [s]
livetime	2331.7233517182	Livetime [s]
ontime5	2361.5456236973	Sum of GTIs [s]
ontime6	2038.5917907953	Sum of GTIs [s]
ontime7	2361.6277037039	Sum of GTIs [s]
ontime8	2025.6276507229	Sum of GTIs [s]
ontime9	2032.1056717709	Sum of GTIs [s]
l2events	19174	Number of level 2 events



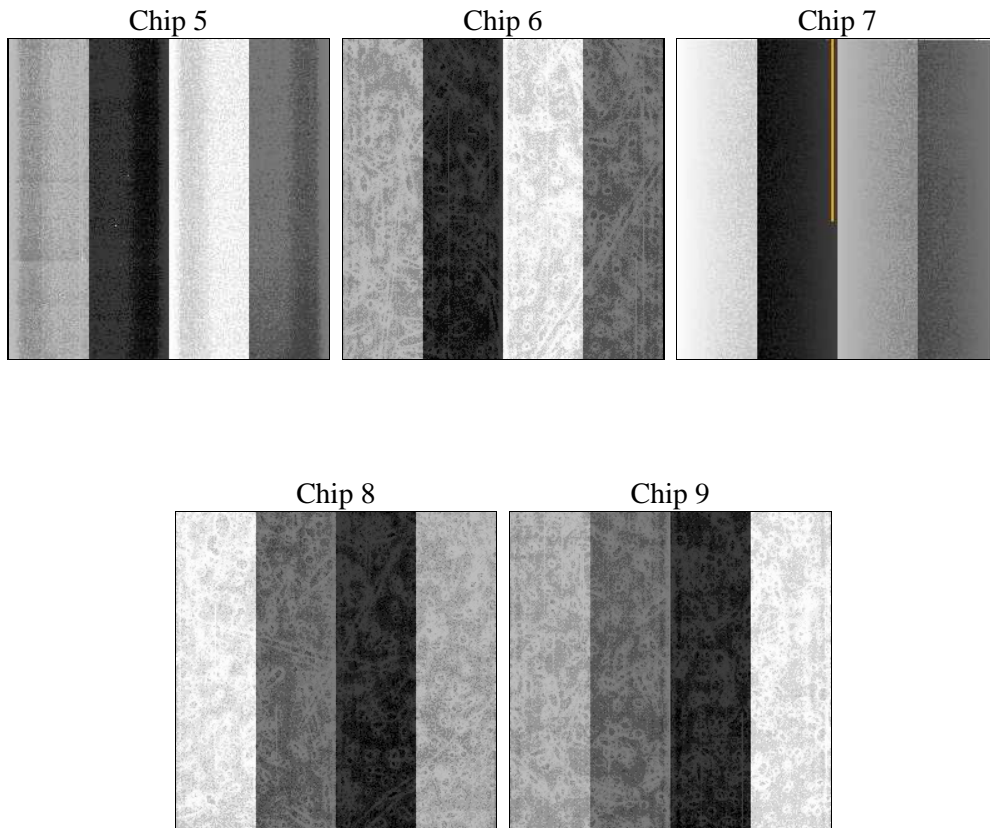
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	17700.000000	Scheduled observation exposure time
ascdsver	8.2.1	ASCDS version number	ontime	2361.6277037039	Sum of GTIs [s]
caldbver	4.1.5	 	ontime5	2361.5456236973	Sum of GTIs [s]
date	2010-01-27T01:55:14	Date and time of file creation	ontime6	2038.5917907953	Sum of GTIs [s]
revision	3	Processing version of data	ontime7	2361.6277037039	Sum of GTIs [s]
			ontime8	2025.6276507229	Sum of GTIs [s]
			ontime9	2032.1056717709	Sum of GTIs [s]
			l1events	93961	Number of level 1 events

2.1.4 Events

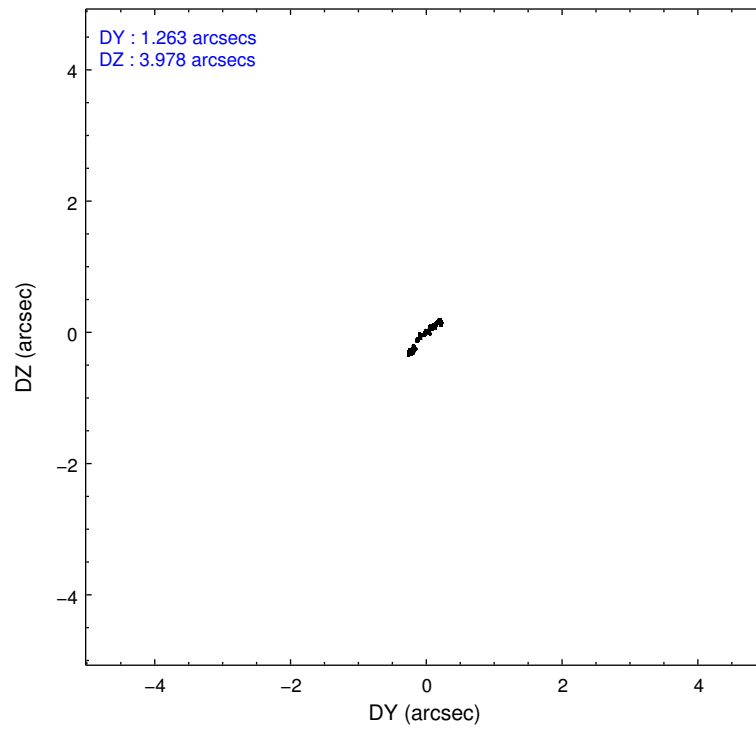
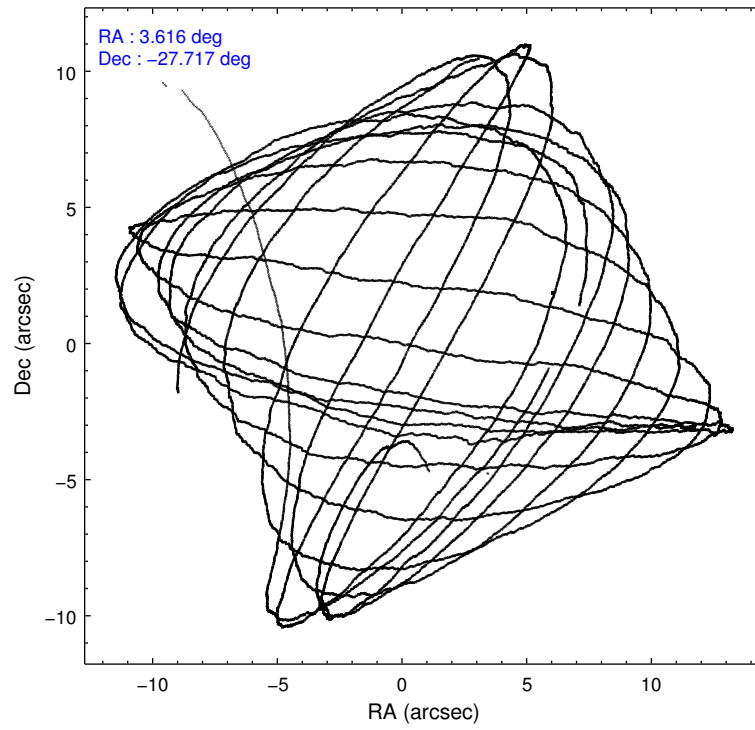
	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	25662	15552	19892	17989	14866
rejected events	14618	14028	12736	14999	13414
rejected %	56%	90%	64%	83%	90%

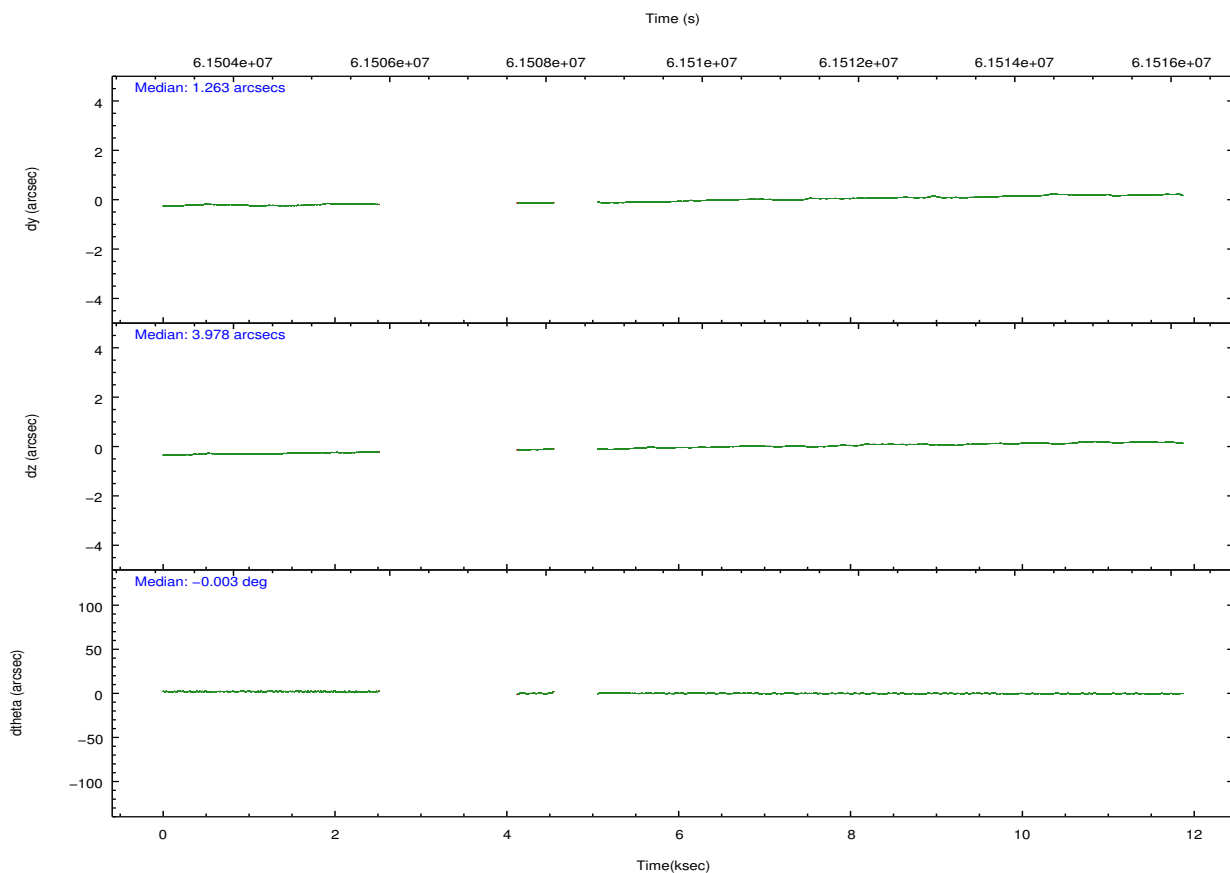
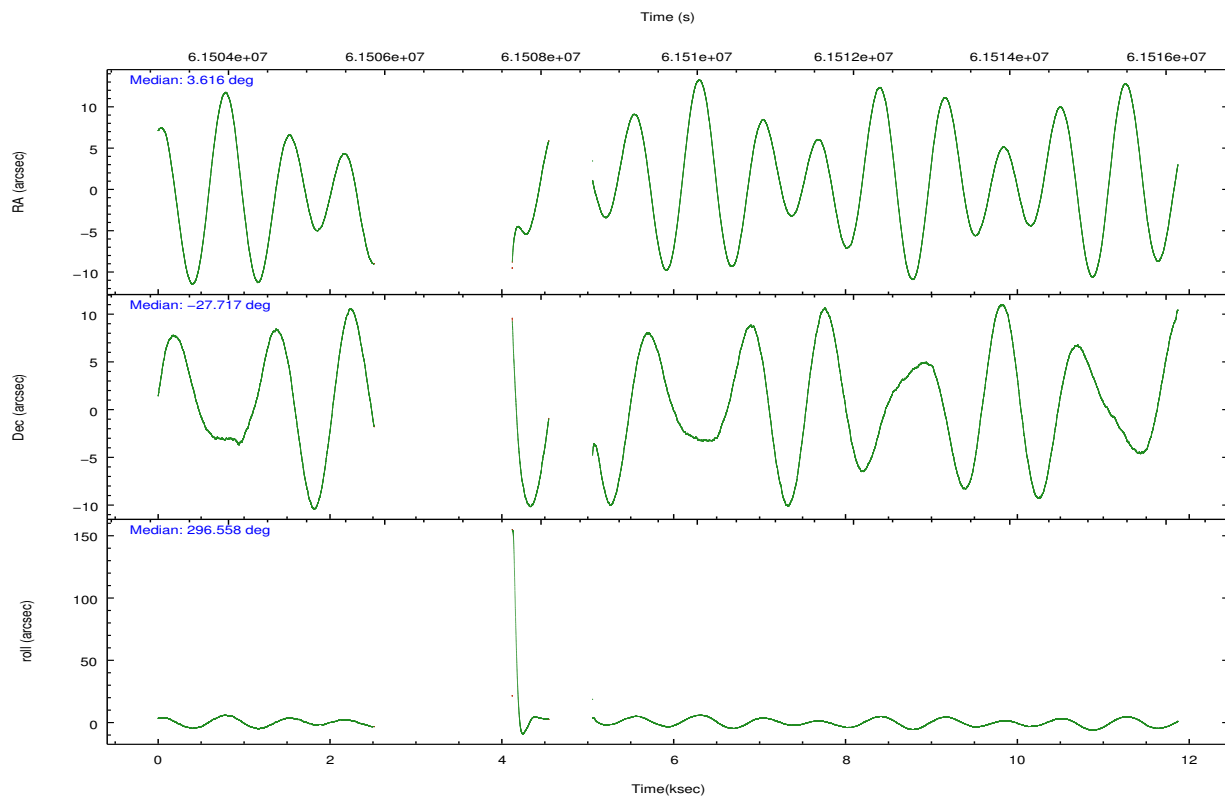
	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	2729	254	406	660	232
	10%	1%	2%	3%	1%
grade 1 events	187	4	14	5	4
	0%	0%	0%	0%	0%
grade 2 events	2275	586	1591	998	594
	8%	3%	7%	5%	3%
grade 3 events	302	101	427	207	94
	1%	0%	2%	1%	0%
grade 4 events	315	115	396	215	107
	1%	0%	1%	1%	0%
grade 5 events	895	343	1250	431	309
	3%	2%	6%	2%	2%
grade 6 events	6097	468	4690	910	425
	23%	3%	23%	5%	2%
grade 7 events	12862	13681	11118	14563	13101
	50%	87%	55%	80%	88%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-56789	ACIS-56789	Obspar file type	PREDICTED	ACTUAL
Grating	HETG	HETG	Obspar update status	OVERRIDE	OVERRIDE
Data mode	FAINT	FAINT	On-chip summing requested	N	N
Observation mode	POINTING	POINTING	Subarray requested	NONE	NONE
Pointing RA	3.6151	3.615767394506975	Alternating exposures requested	N	N
Pointing Dec	-27.712284	-27.71723883559854	Primary exposure time	3.200000	3.200000
Pointing Roll	296.393950	296.5629756488522			
SIM focus pos (mm)	-0.6828225247311905	-0.6828225247311905			
SIM defocus (mm)	0.001444942264670179	0.001444942264670179			
SIM translation stage pos (mm)	-190.1400660498719	-190.1400660498719			
SIM translation stage offset (mm)	0.007542945904702947	0.007542945904702947			
Observation start time	61503691.184000	61503691.184			
Observation start date	1999-12-13T20:21:31	1999-12-13T20:21:31			
Observation end time	61515562.00372385	61515562.00372385			
Observation end date	1999-12-13T23:39:22	1999-12-13T23:39:22			
Read mode	TIMED	TIMED			

2.3 Aspect



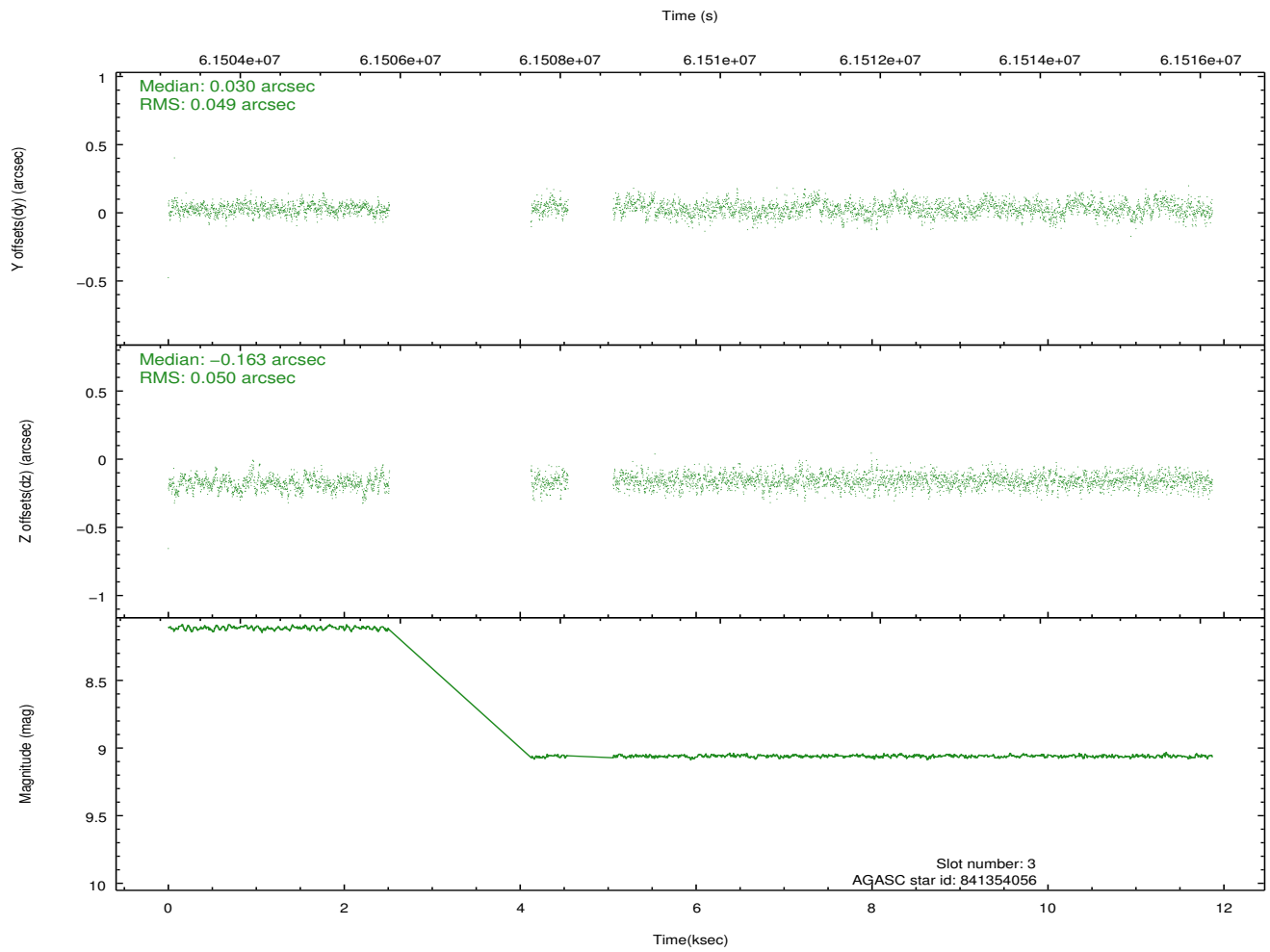
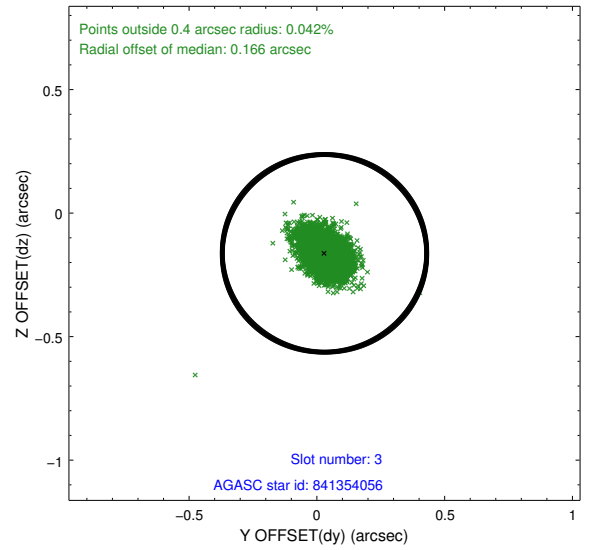
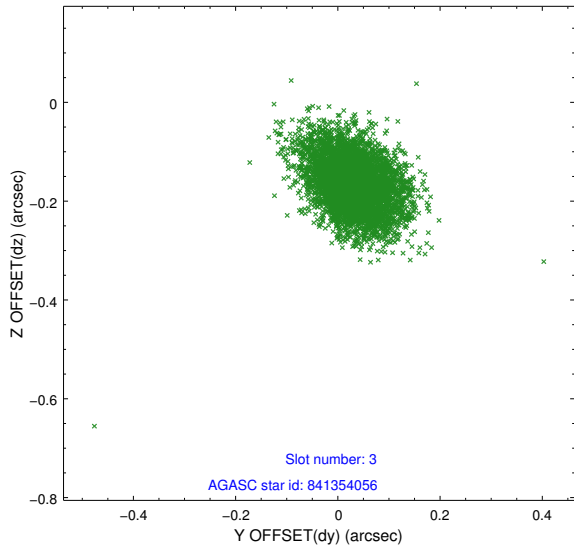


Slot Statistics

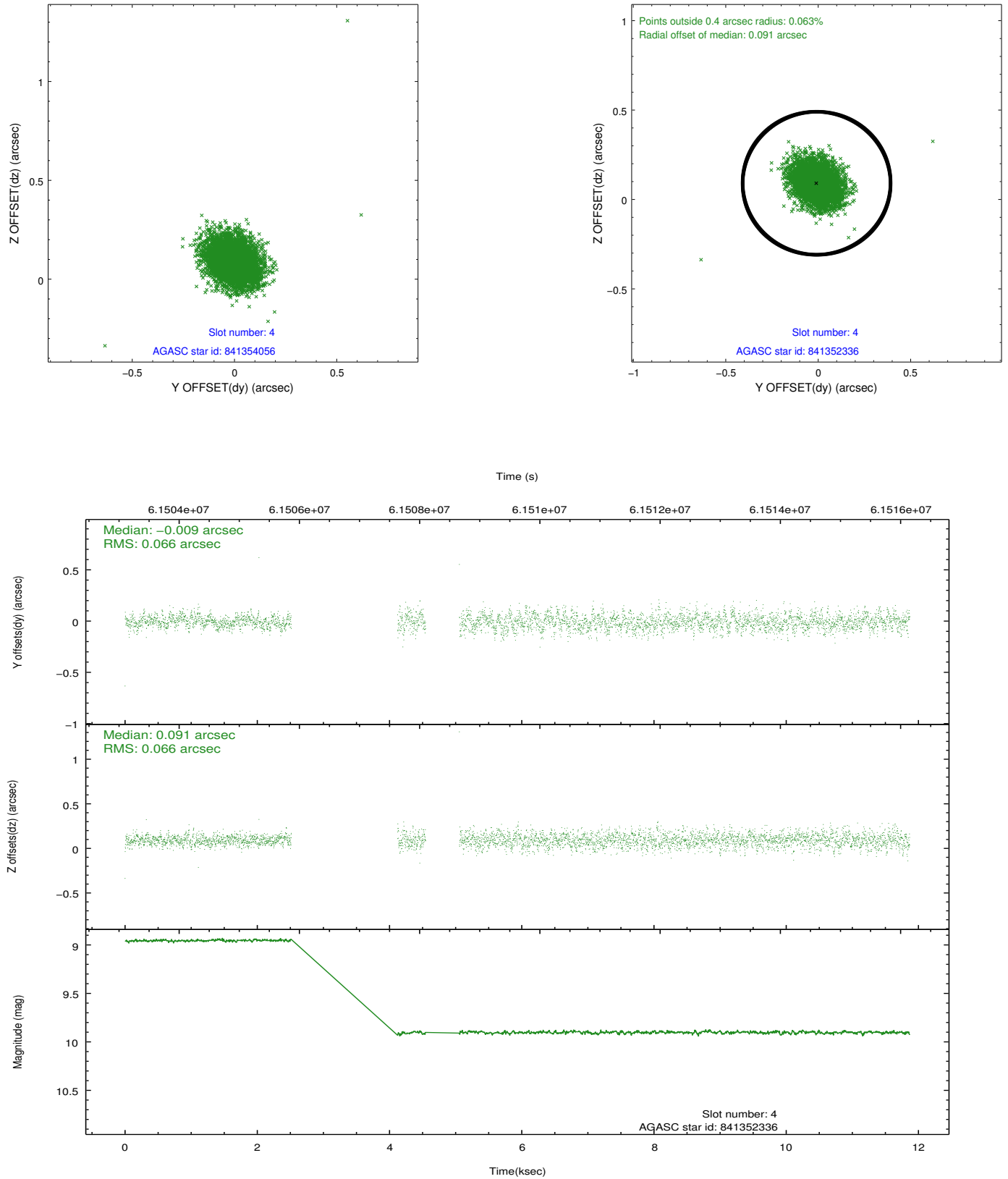
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	8.08	4759	-0.006	-0.057	0.009	0.050	0.000000	0.000000	-753.89	-1725.05
1	FID	ACIS-S-4	8.17	4759	0.014	0.018	0.008	0.020	0.000000	0.000000	2159.36	183.22
2	FID	ACIS-S-5	8.21	4759	-0.039	0.047	0.008	0.034	0.000000	0.000000	-1806.47	177.24
3	GUIDE	841354056	9.06	4758	0.030	-0.163	0.072	0.123	3.289758	-27.813509	-64.64	-1035.62
4	GUIDE	841352336	9.90	4759	-0.009	0.091	0.094	0.160	3.763646	-27.502481	-397.04	815.52
5	GUIDE	841354256	9.38	4757	-0.084	-0.185	0.087	0.147	3.053997	-27.784539	-489.85	-1663.12
6	GUIDE	840958520	9.96	4756	-0.109	0.102	0.106	0.175	3.606307	-27.169909	-1693.32	897.82
7	GUIDE	841354728	10.47	4757	0.173	0.162	0.136	0.226	4.247308	-28.053116	2064.94	1306.65

2.4 Star Slots

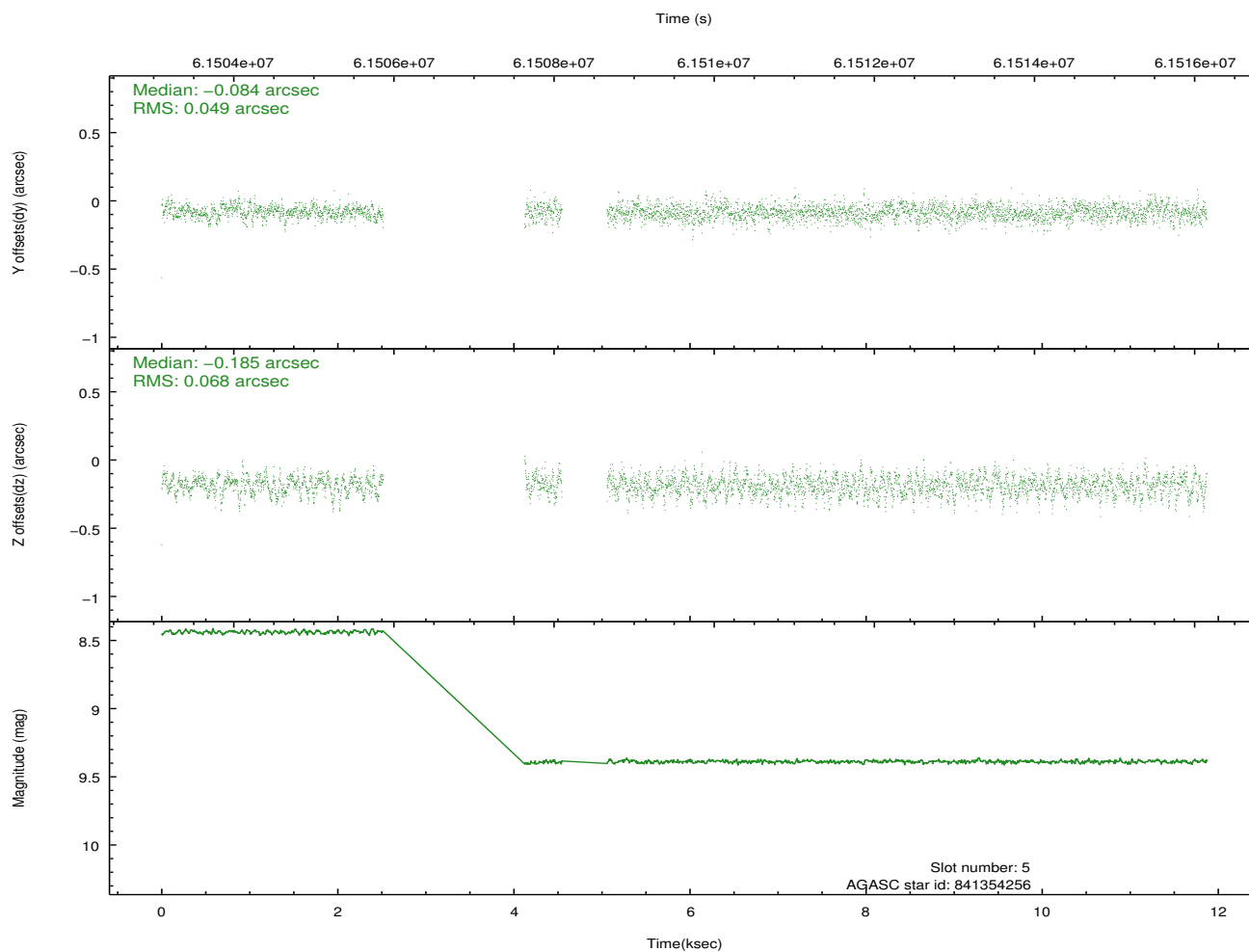
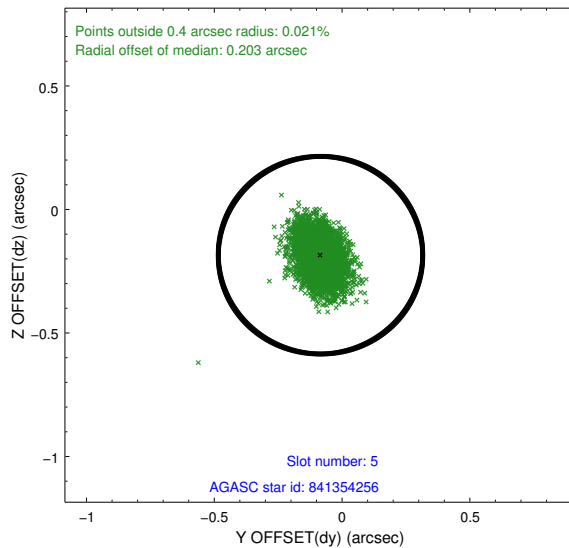
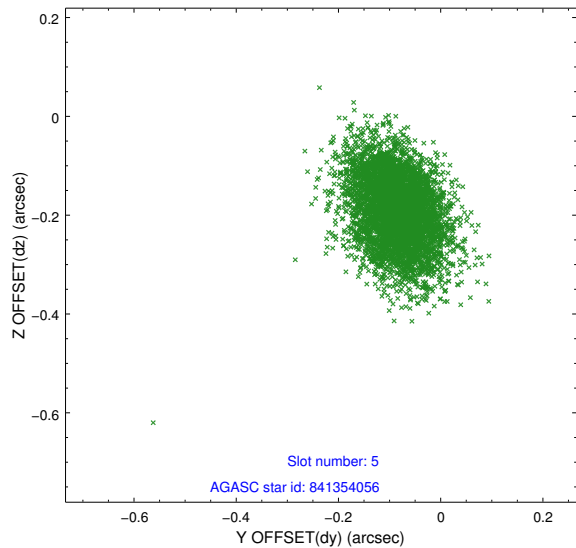
2.4.1 Slot 3



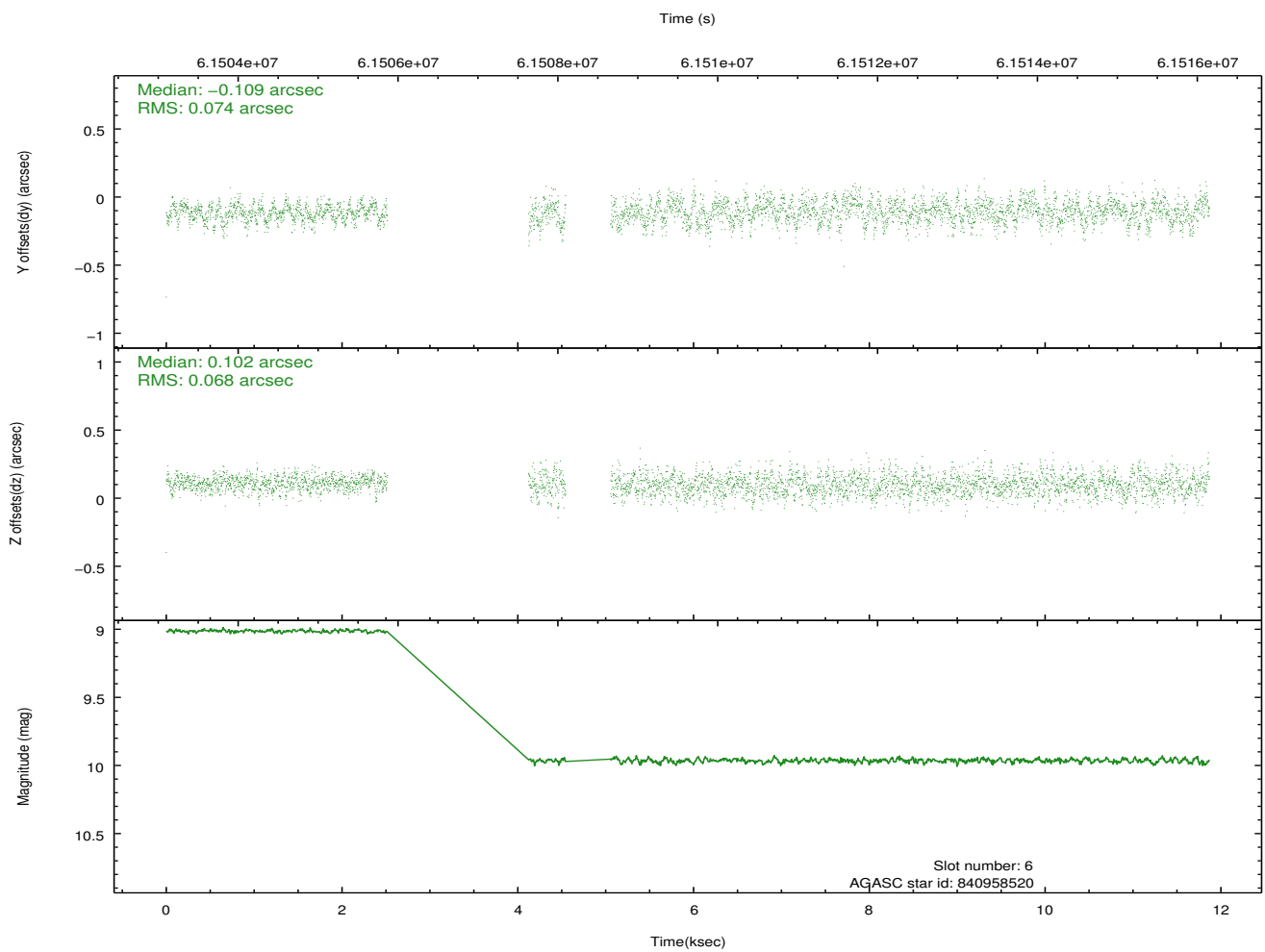
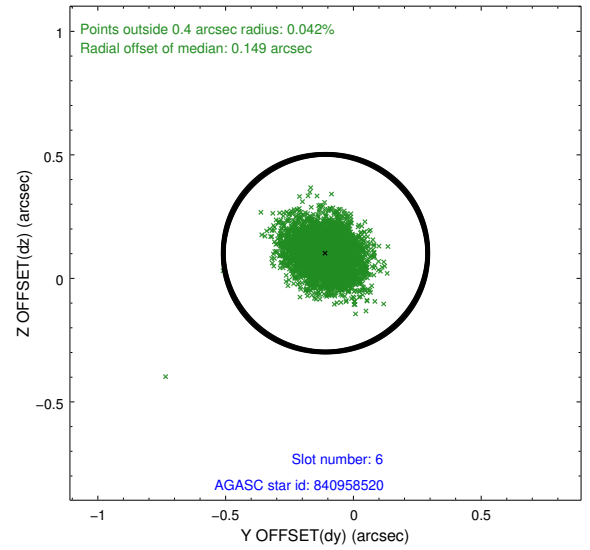
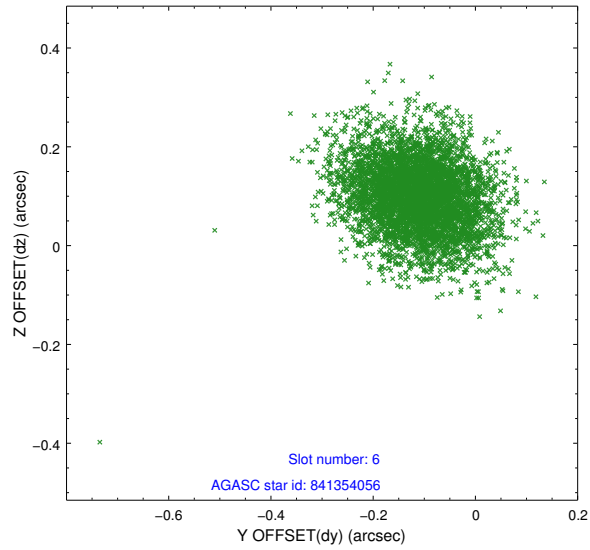
2.4.2 Slot 4



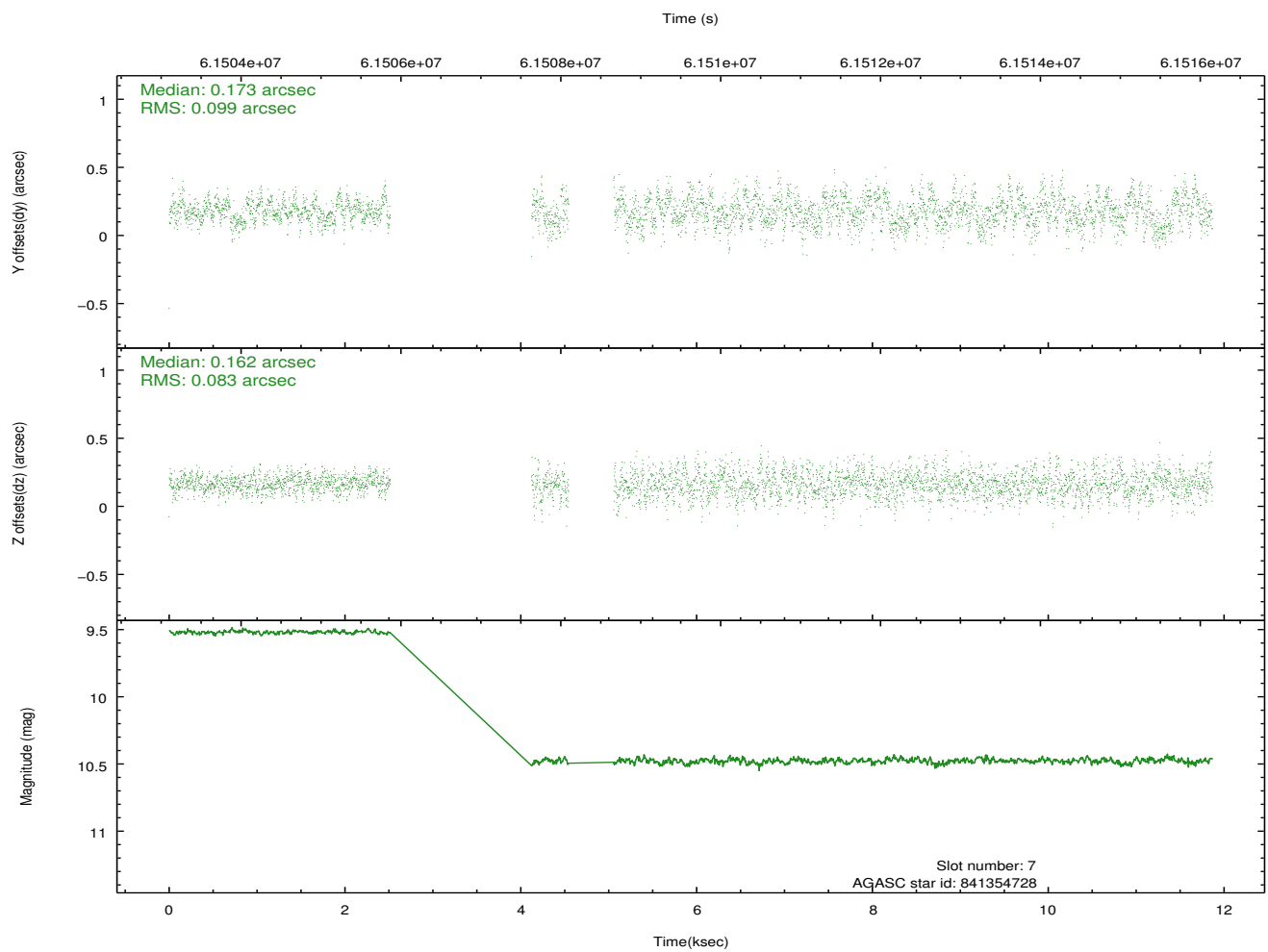
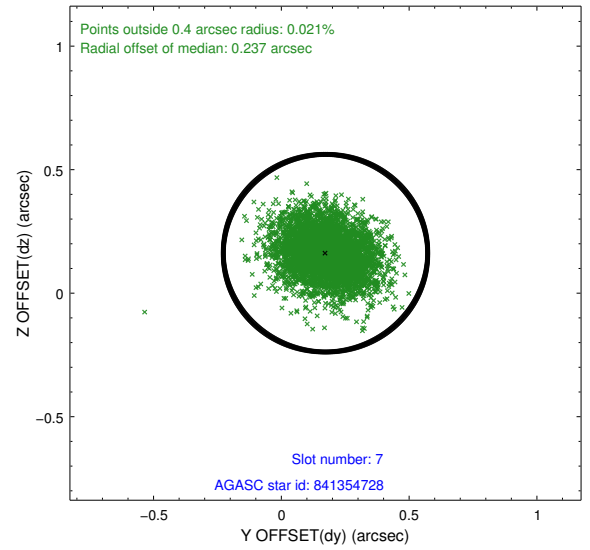
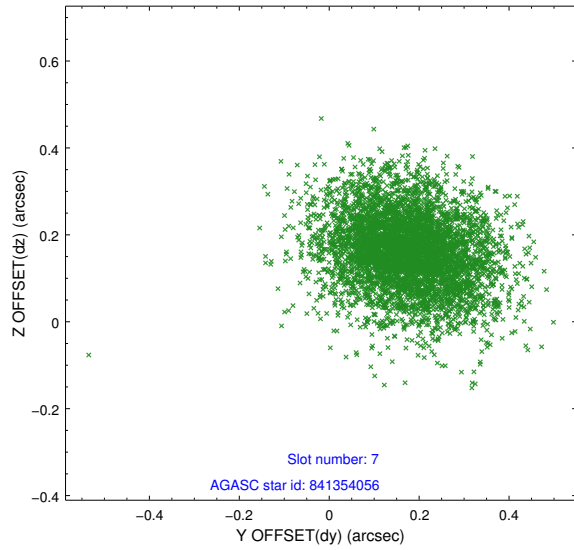
2.4.3 Slot 5



2.4.4 Slot 6

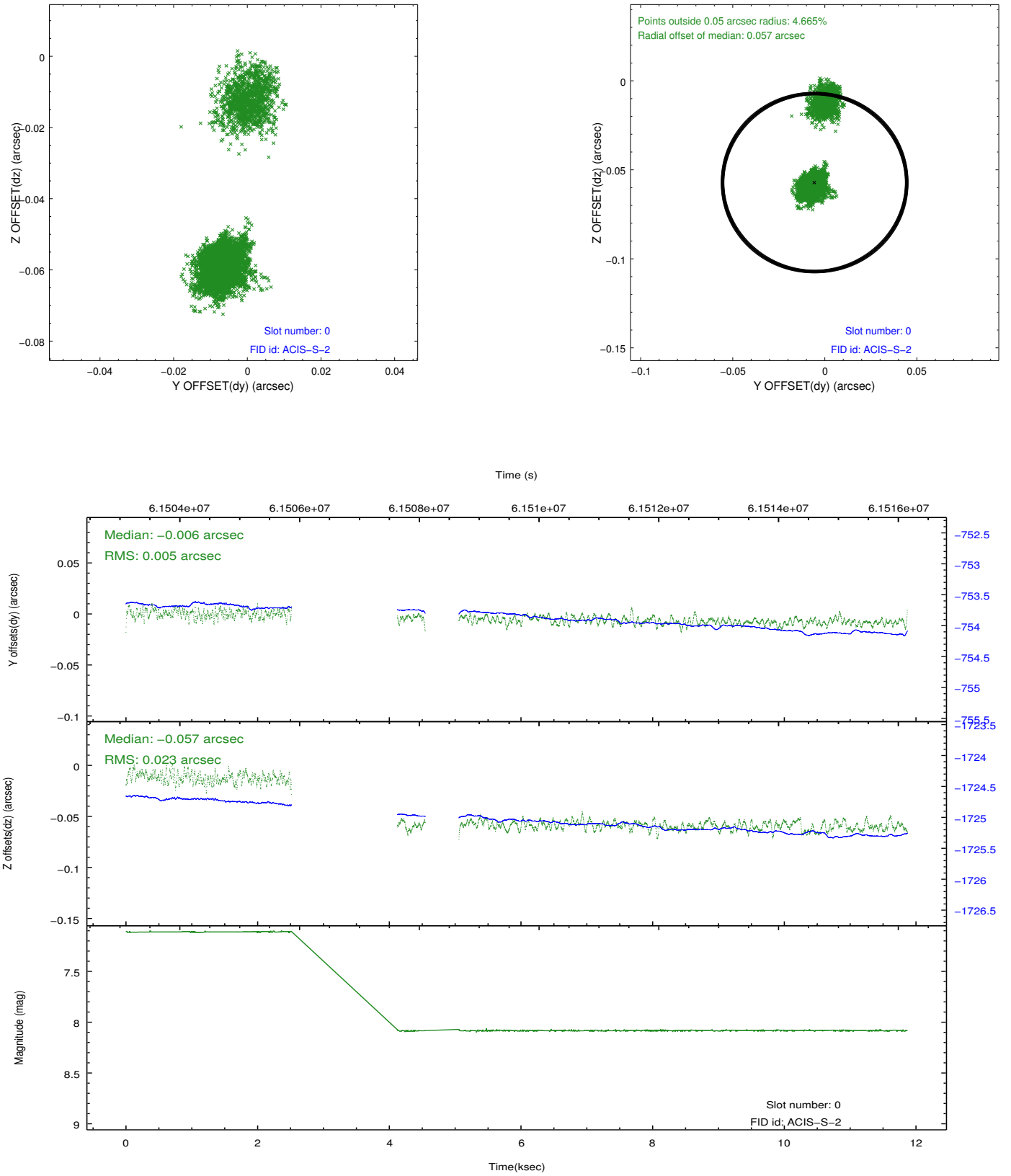


2.4.5 Slot 7

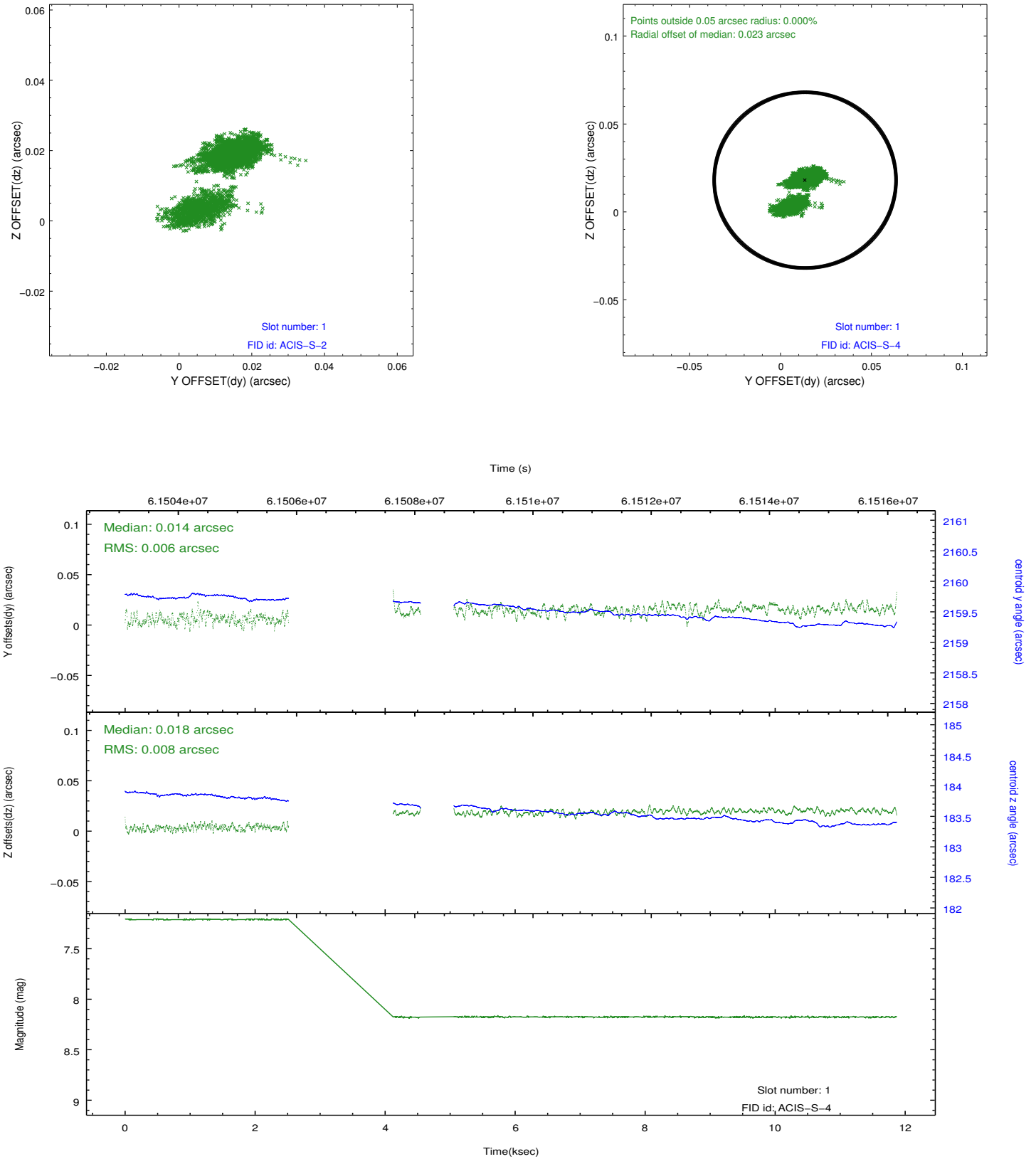


2.5 FID Slots

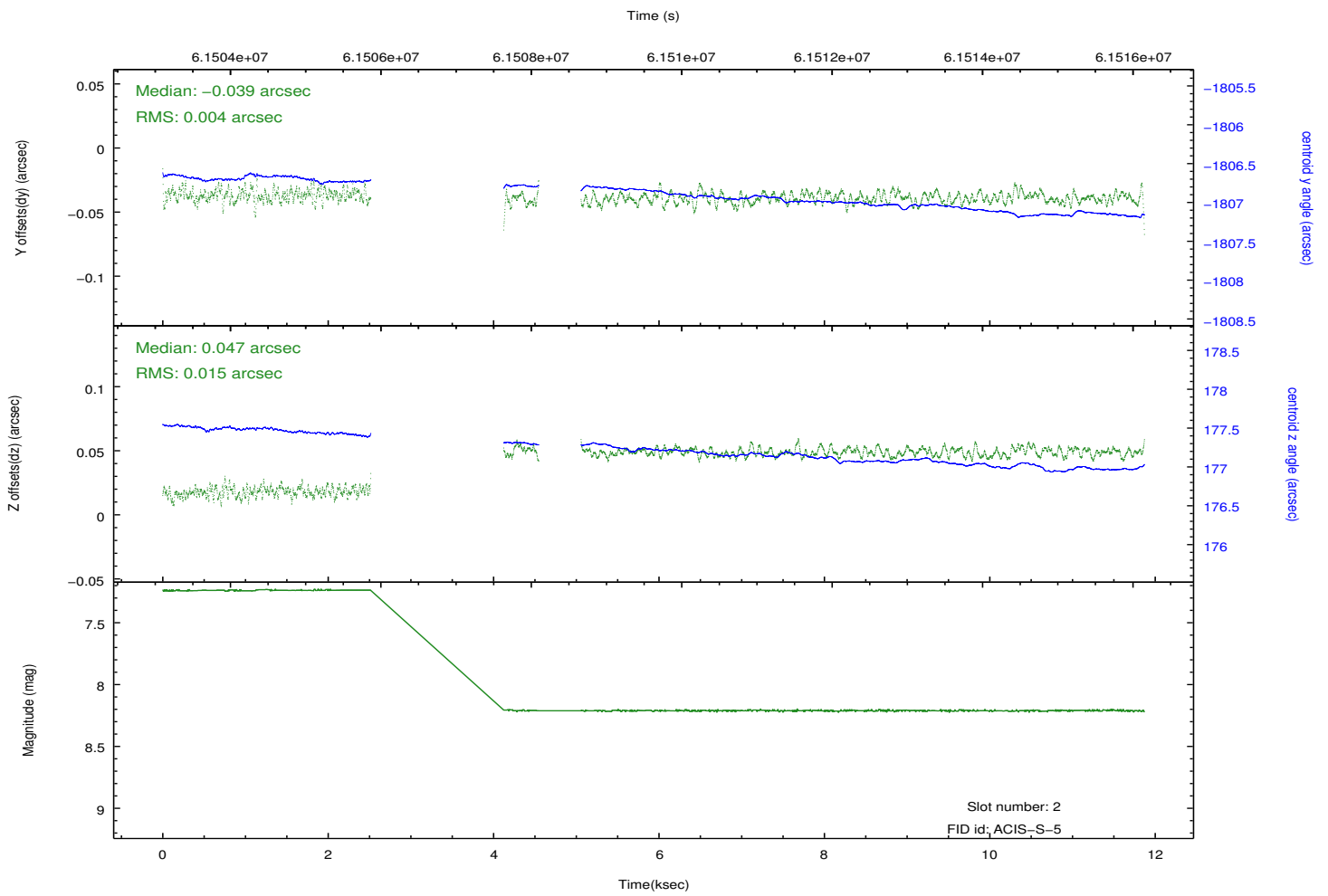
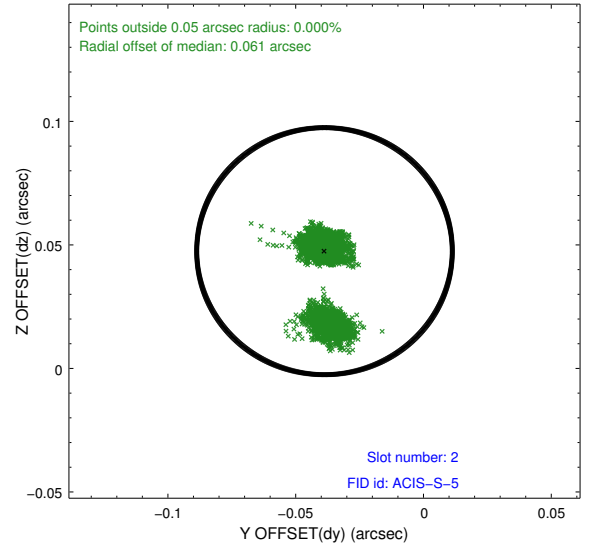
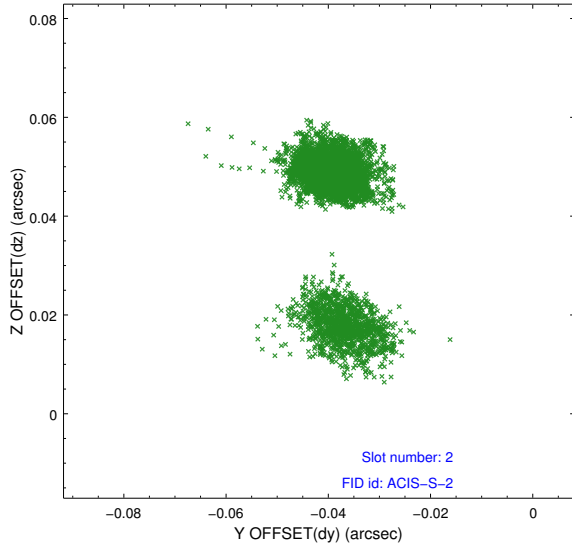
2.5.1 Slot 0



2.5.2 Slot 1

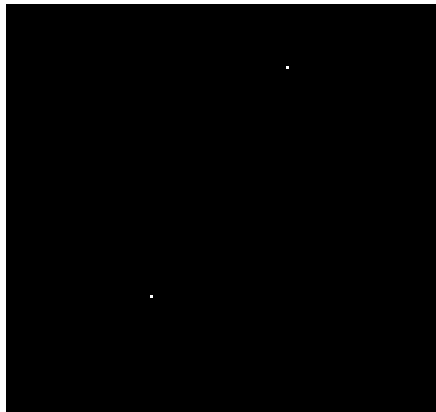


2.5.3 Slot 2

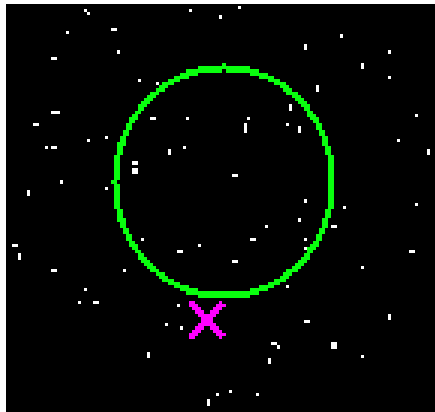


3 Gratings

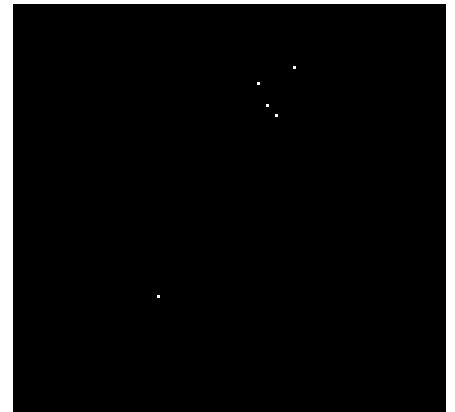
3.1 HEG Arm



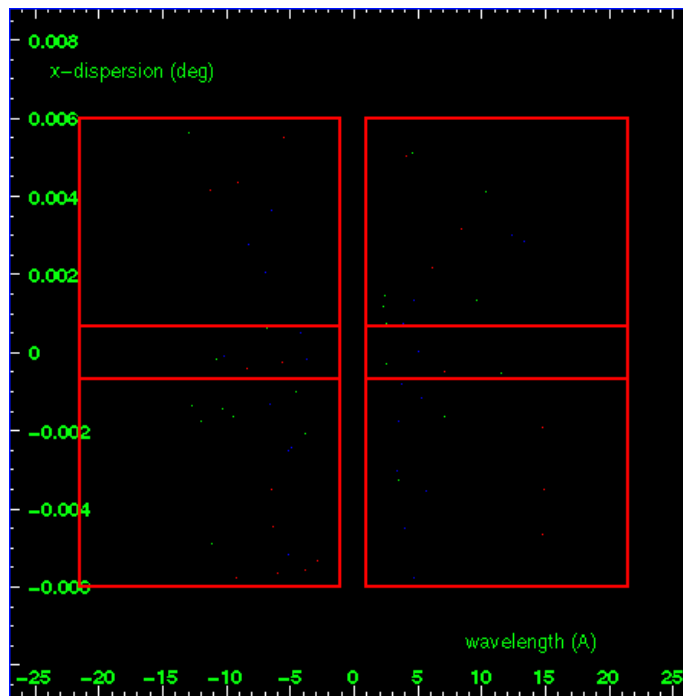
HEG Order Sort 123



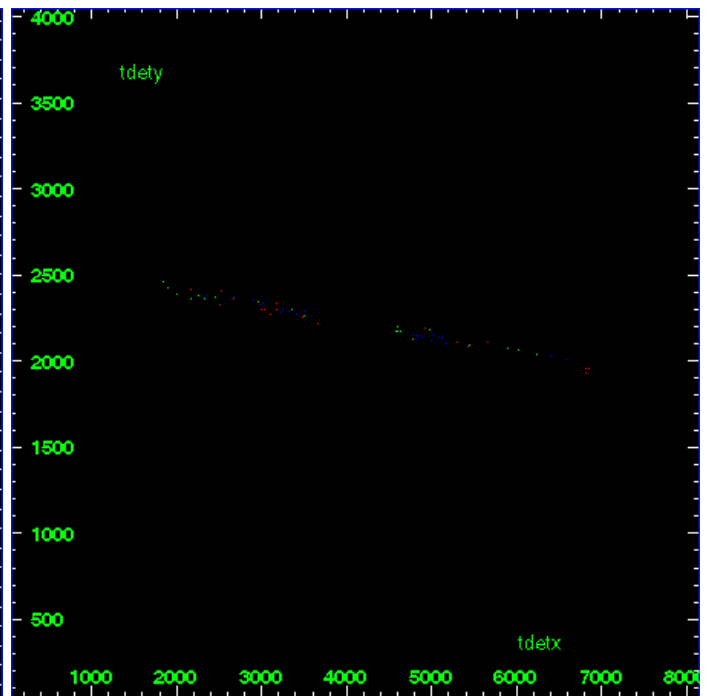
HEG Zero Order



HEG Order Sort ALL

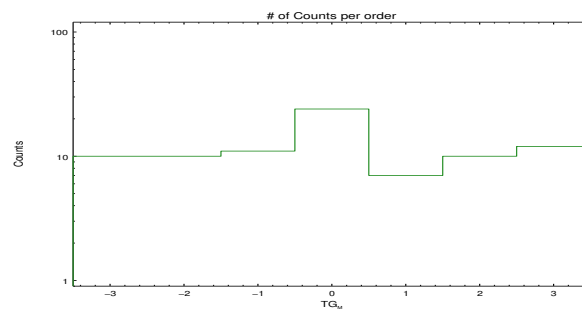


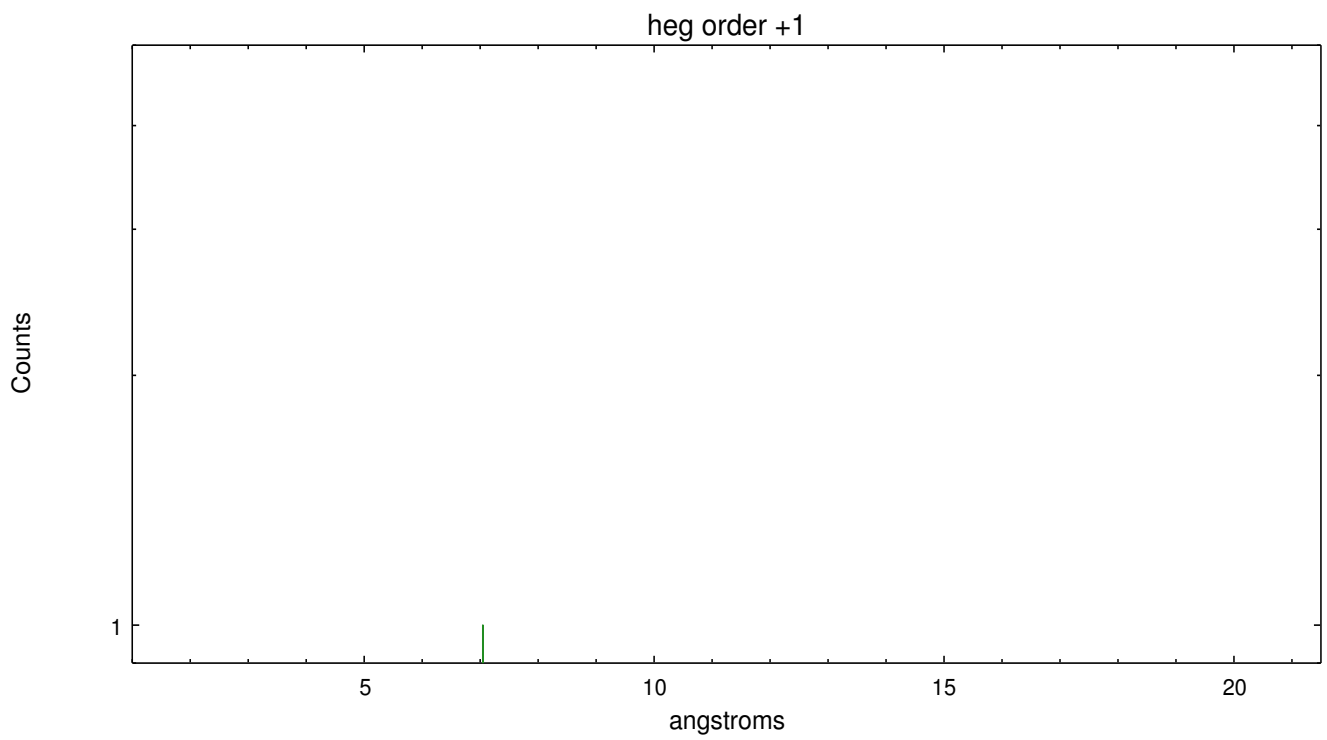
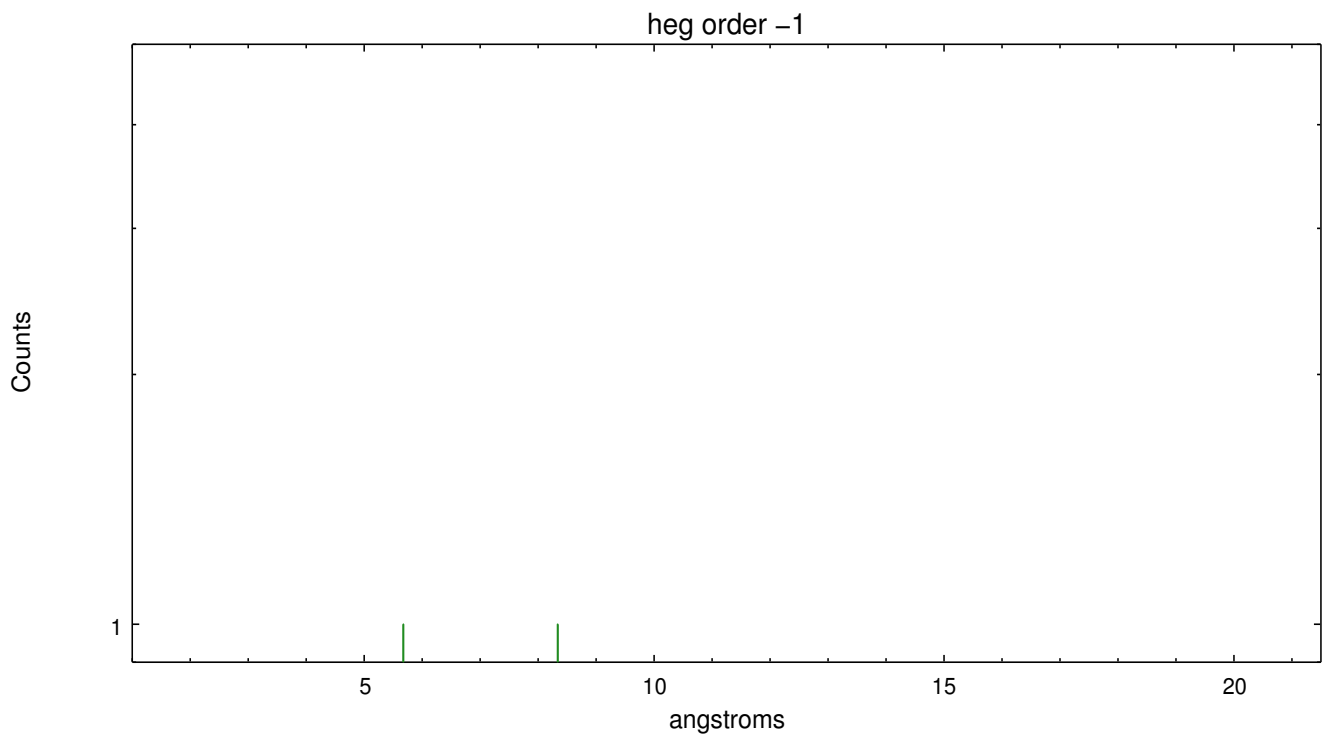
Spot Image HEG



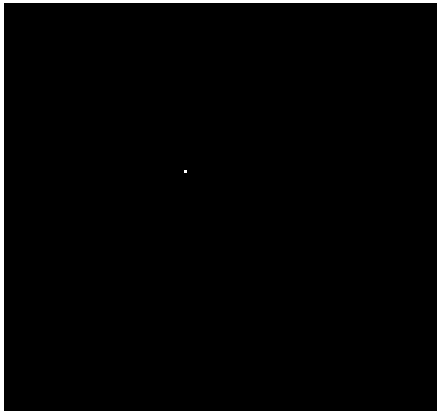
Full Detector HEG

	order	order	order	order	order	order	order
	-3	-2	-1	0	1	2	3
Events	10	10	11	24	7	10	12

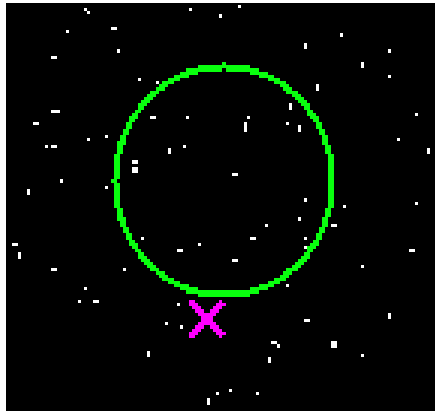




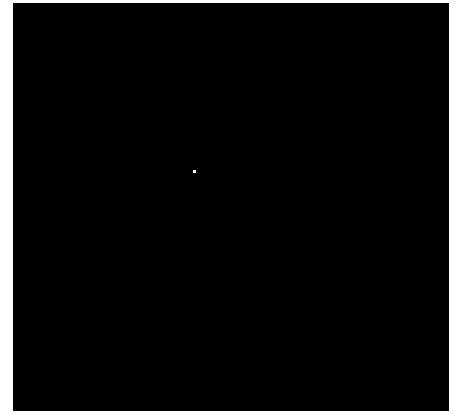
3.2 MEG Arm



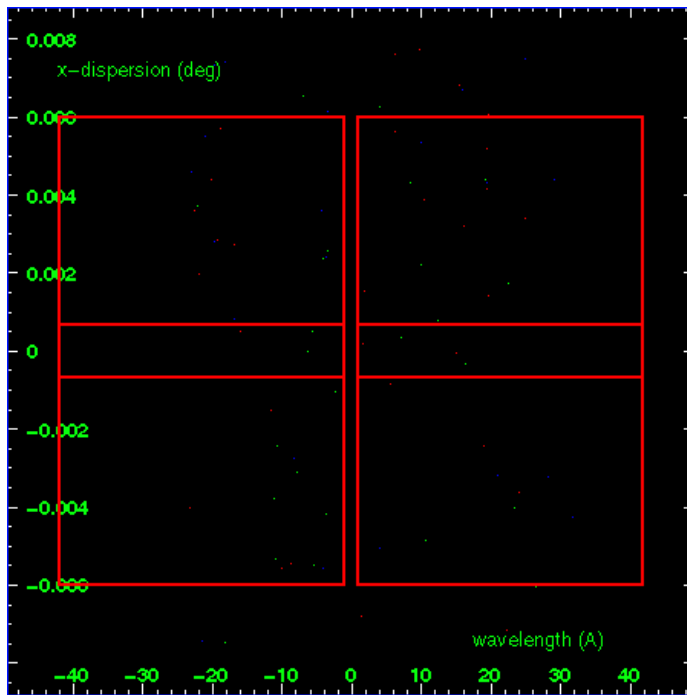
MEG Order Sort 123



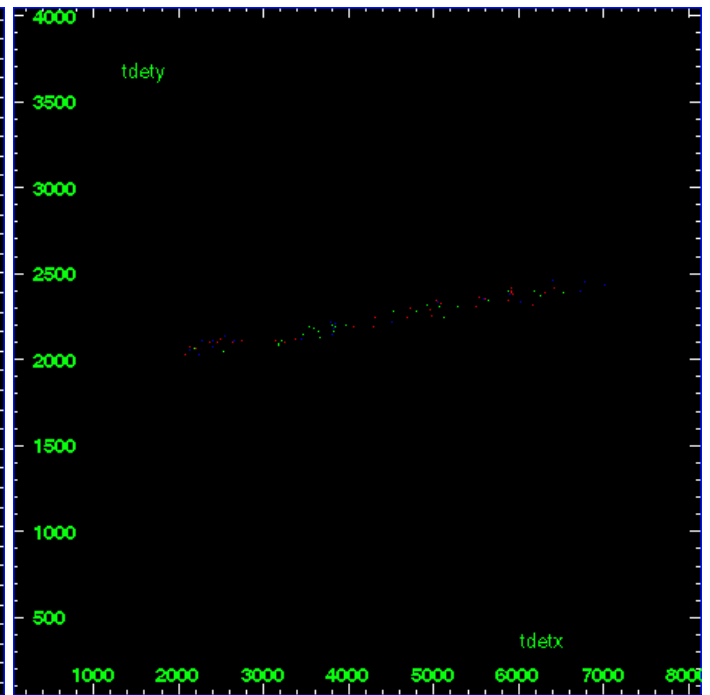
MEG Zero Order



MEG Order Sort ALL

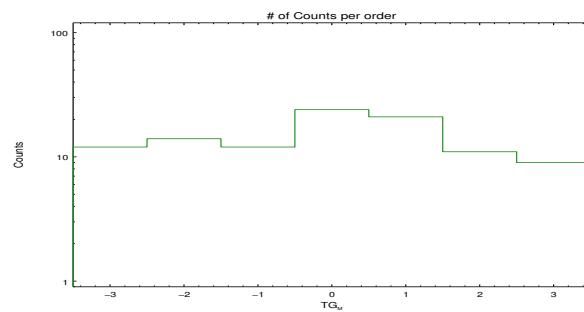


Spot Image MEG

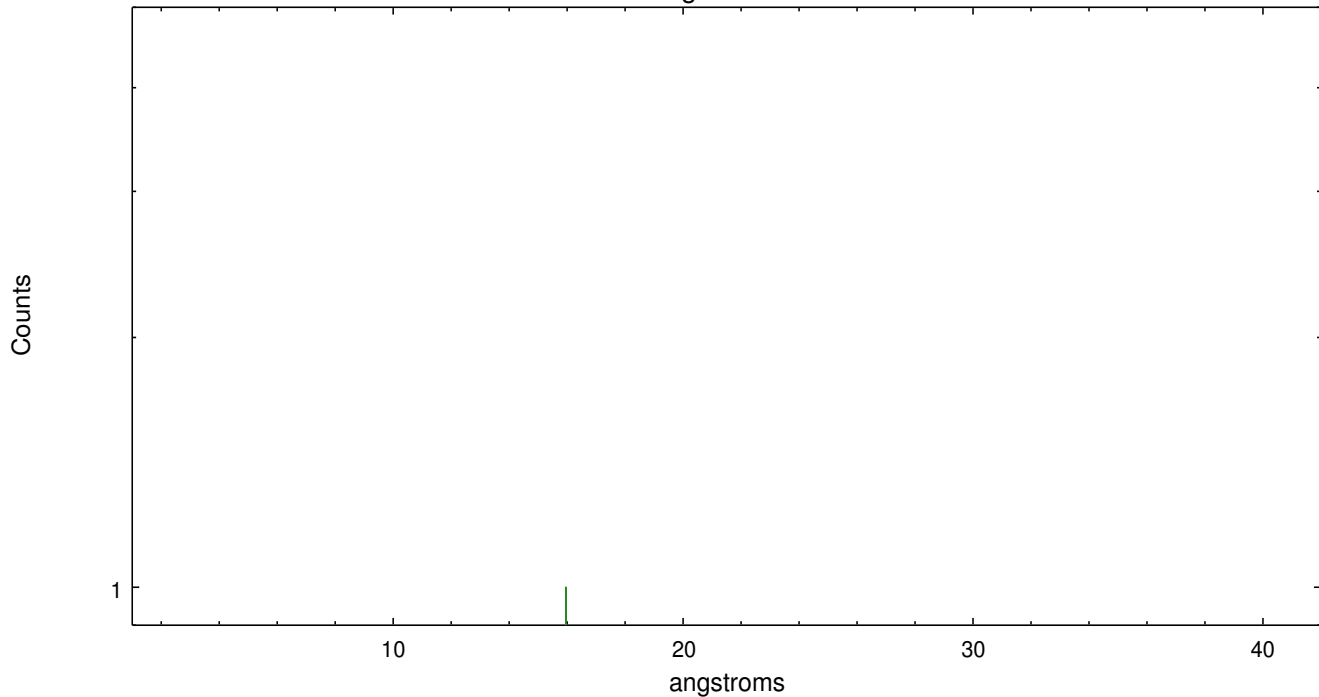


Full Detector MEG

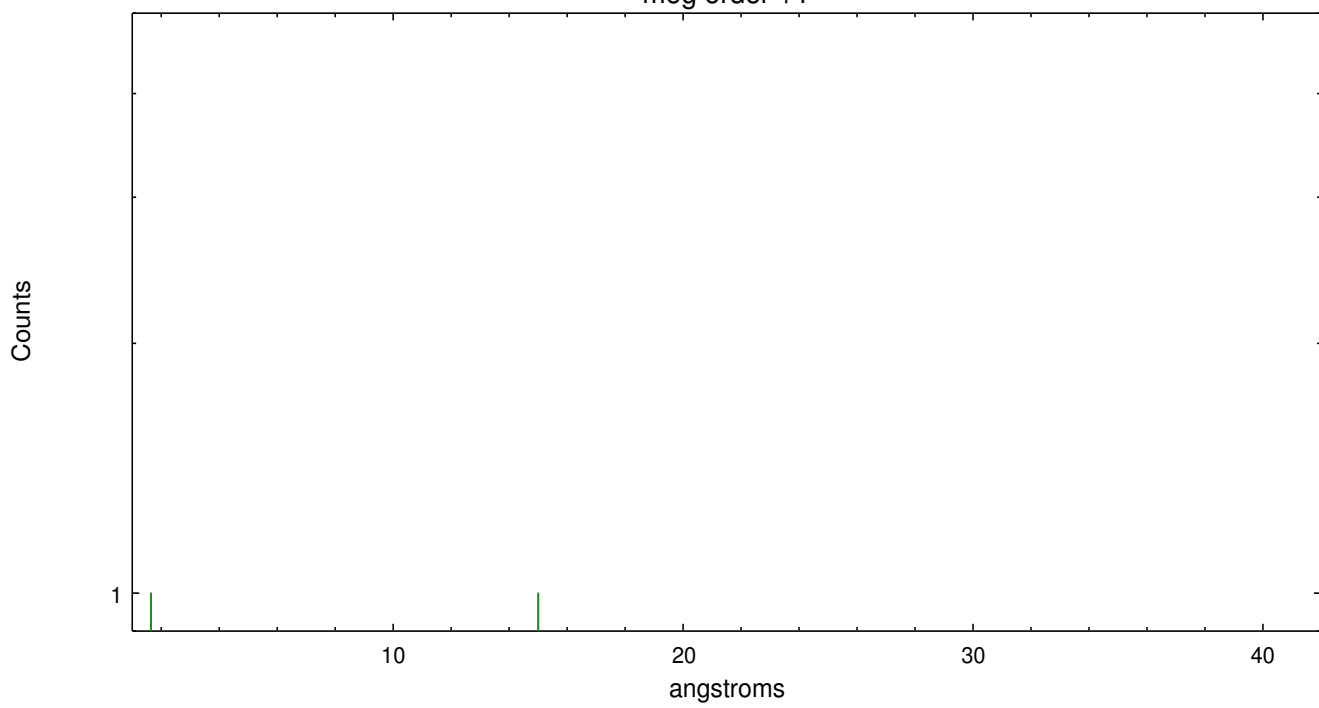
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	12	14	12	24	21	11	9



meg order -1



meg order +1



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2010.04.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.362

A.2 Comments

Science Instrument safing test. No target. Momentum dump during observation.