

V&V Reference Report

L2 ASCDS Version : 7.6.9

Observation 1942 - L2 Version 002
Chandra X-Ray Center

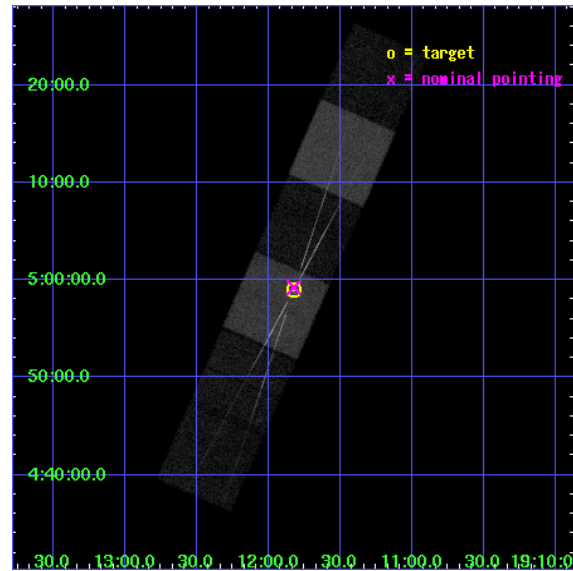
L2 Processing Date : Jan 4 2007

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1 Front

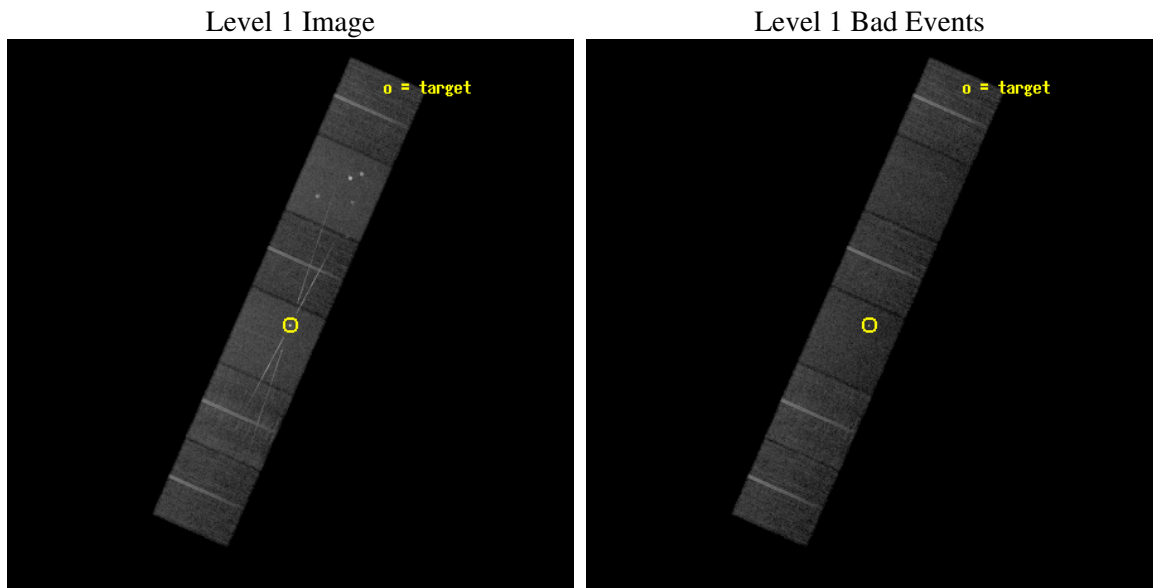
seq_num	400155
obs_id	1942
title	MAPPING THE JETS OF SS 433
observer	Dr. masaaki namiki
object	SS 433
dtcycle	0
cycle	P
ra_targ	287.95625
dec_targ	4.982806
ra_nom	287.9561592077
dec_nom	4.9872910203315
roll_nom	113.70807139844
revision	3
ontime	19952.000018582
livetime	19699.355780694
ontime4	19952.000018582
ontime5	19952.000018582
ontime6	19948.759028405
ontime7	19952.000018582
ontime8	19952.000018582
ontime9	19952.000018582
l2events	213924



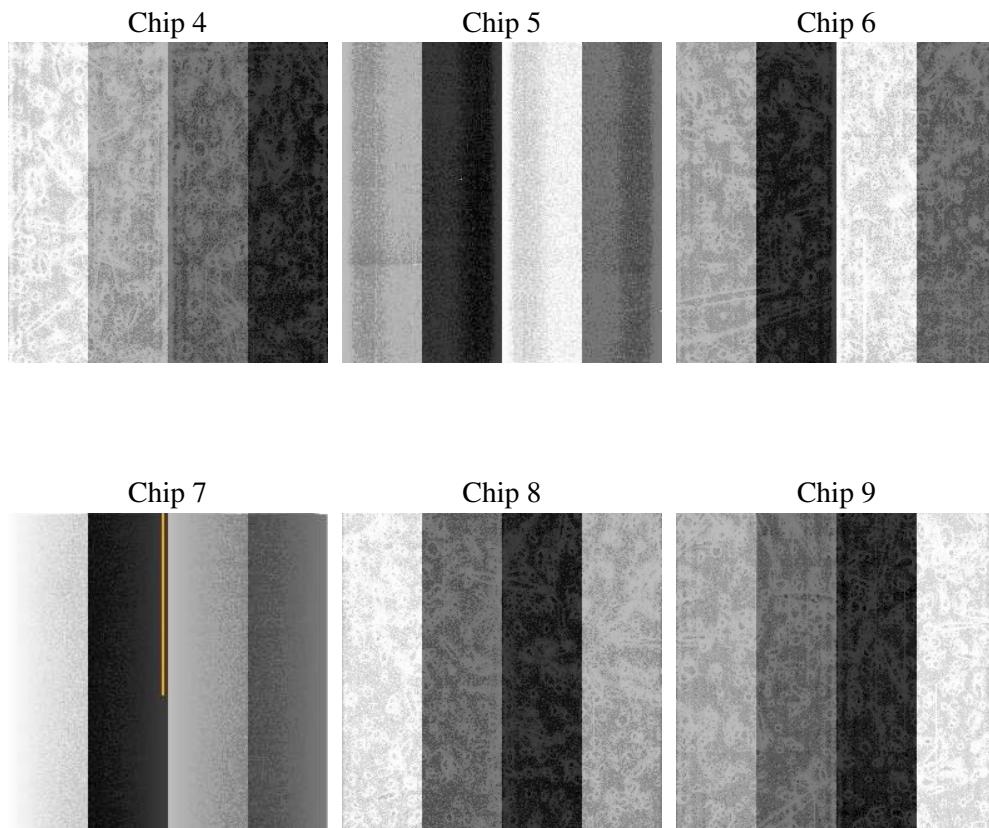
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0
ascdsver	7.6.9
caldsver	3.2.4
date	2006-11-21T14:04:46
revision	2

sched_exp_time	20000.000000
ontime	19954.835475013
ontime4	19954.835475013
ontime5	19954.835475013
ontime6	19951.594484836
ontime7	19954.835475013
ontime8	19954.835475013
ontime9	19954.835475013
l1events	931205

2.1.4 Events

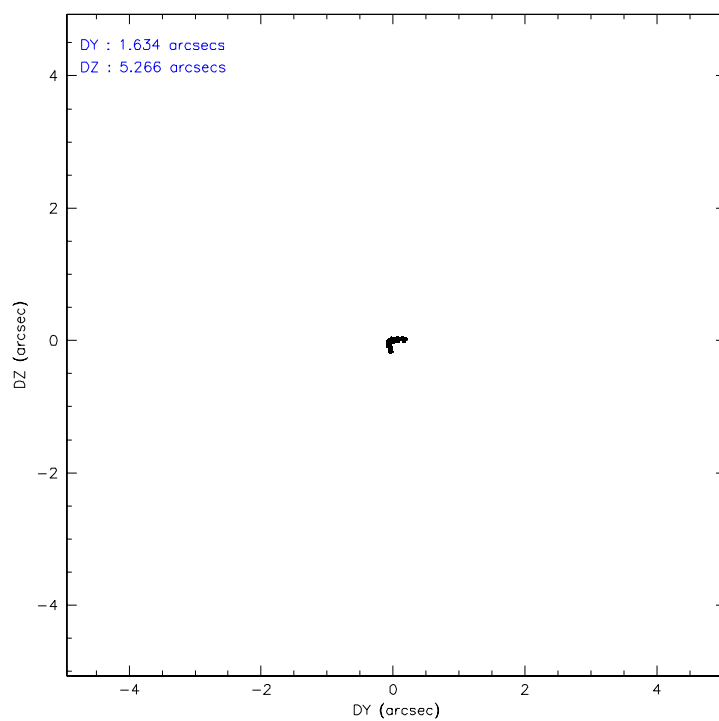
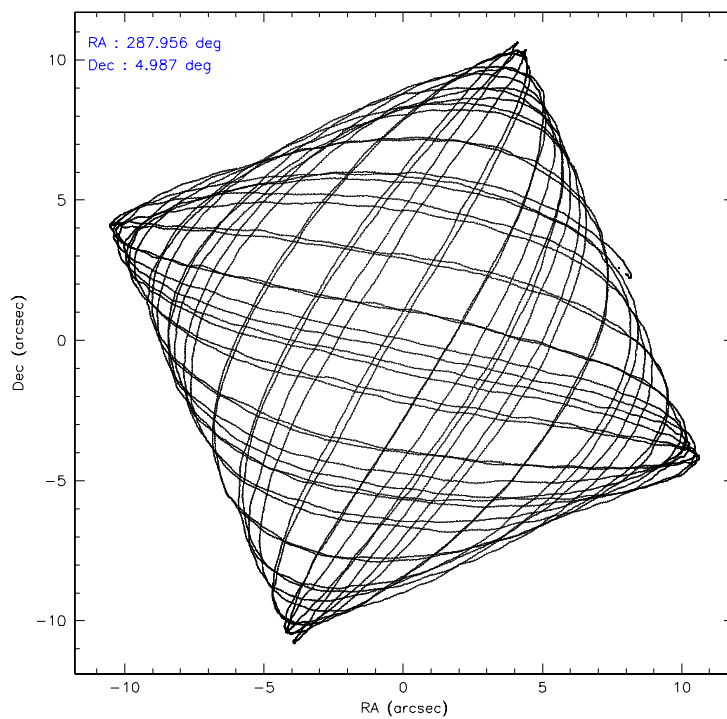
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	142281	182475	135745	181389	162311	127004
rejected events	126802	99123	112116	103278	127803	111771
rejected %	89%	54%	82%	56%	78%	88%

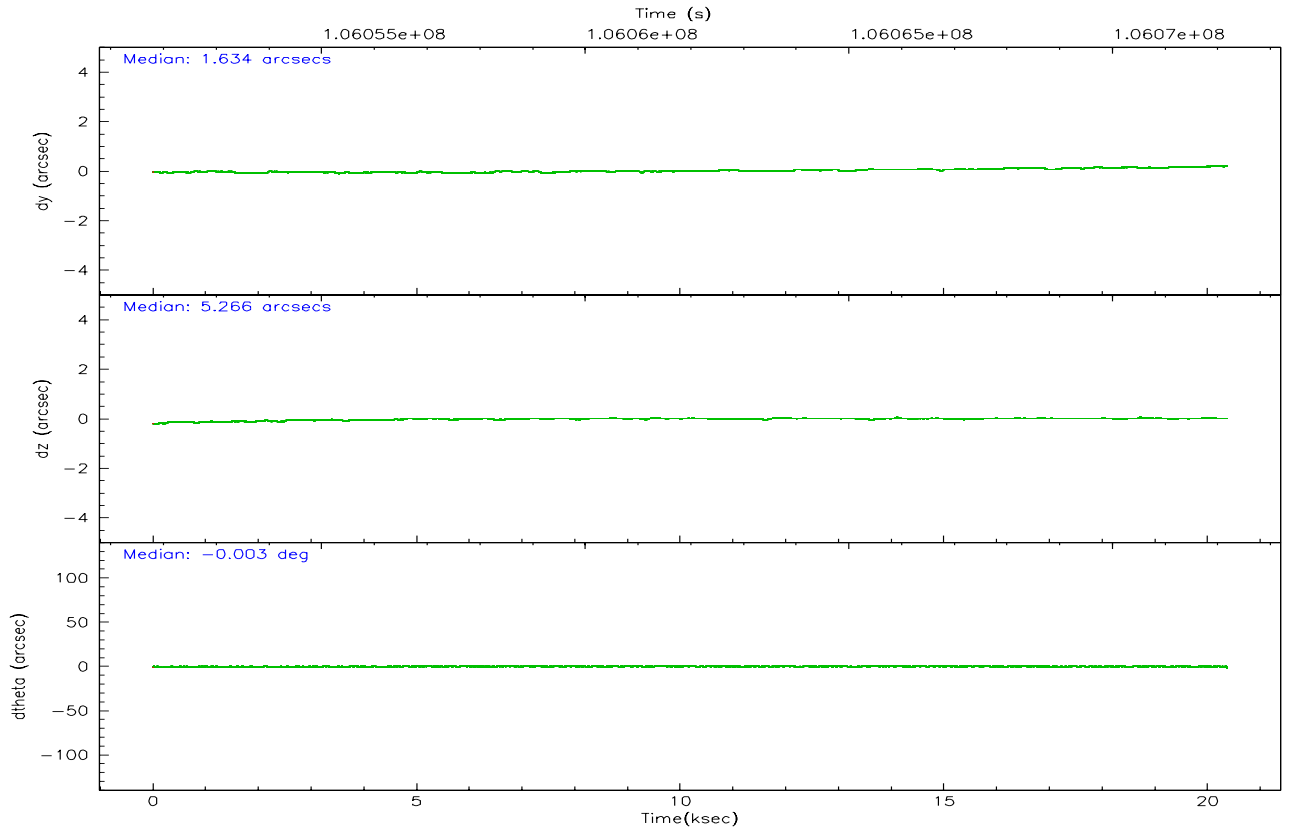
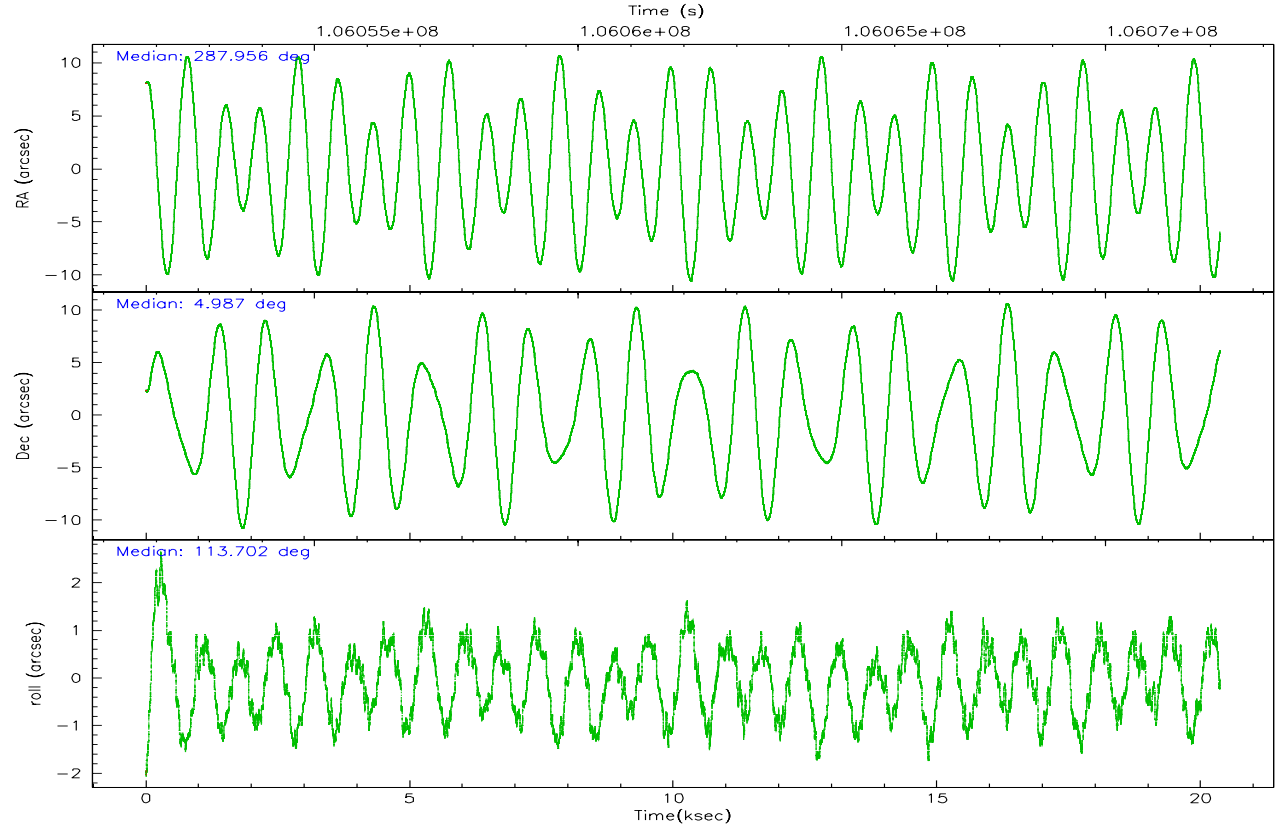
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	6164	11226	12633	6227	12226	6221
	4%	6%	9%	3%	7%	4%
grade 1 events	66	214	85	204	76	52
	0%	0%	0%	0%	0%	0%
grade 2 events	3874	24089	4068	19540	7387	3160
	2%	13%	2%	10%	4%	2%
grade 3 events	1380	1895	1844	4840	3318	1516
	0%	1%	1%	2%	2%	1%
grade 4 events	1416	1814	1757	4721	3072	1380
	0%	0%	1%	2%	1%	1%
grade 5 events	4596	8804	5467	12104	6768	5480
	3%	4%	4%	6%	4%	4%
grade 6 events	2649	44341	3332	42789	8509	2957
	1%	24%	2%	23%	5%	2%
grade 7 events	122136	90092	106559	90964	120955	106238
	85%	49%	78%	50%	74%	83%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
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
Pointing RA	287.978420	287.956159207701	Subarray requested	NONE	NONE
Pointing Dec	4.971340	4.987291020331469	Alternating exposures requested	N	N
Pointing Roll	113.549512	113.708071398436	Primary exposure time	0.000000	3.2
Window start time	106012864.184000	106012864.184000			
Window stop time	106099264.184000	106099264.184000			
SIM focus pos (mm)	-0.684267	-0.6828225247311905			
SIM defocus (mm)	0	0.001444936568705701			
SIM translation stage pos (mm)	-187.132523	-187.1228876879999			
SIM translation stage offset (mm)	-3	-3.009634895007935			
Phase constraints	Y	Y			
Phase period	13.082000	13.082000			
Phase epoch	46595.700000	46595.700000			
Phase start	0.250000	0.250000			
Phase end	0.300000	0.300000			
Phase start error	0.030000	0.030000			
Phase end error	0.030000	0.030000			
Observation start time	106052084.184000	106051082.90237			
Observation start date	2001-05-12T10:53:40	2001-05-12T10:38:02			
Observation end time	106072084.184000	106072353.1907			
Observation end date	2001-05-12T16:27:00	2001-05-12T16:32:33			

2.3 Aspect



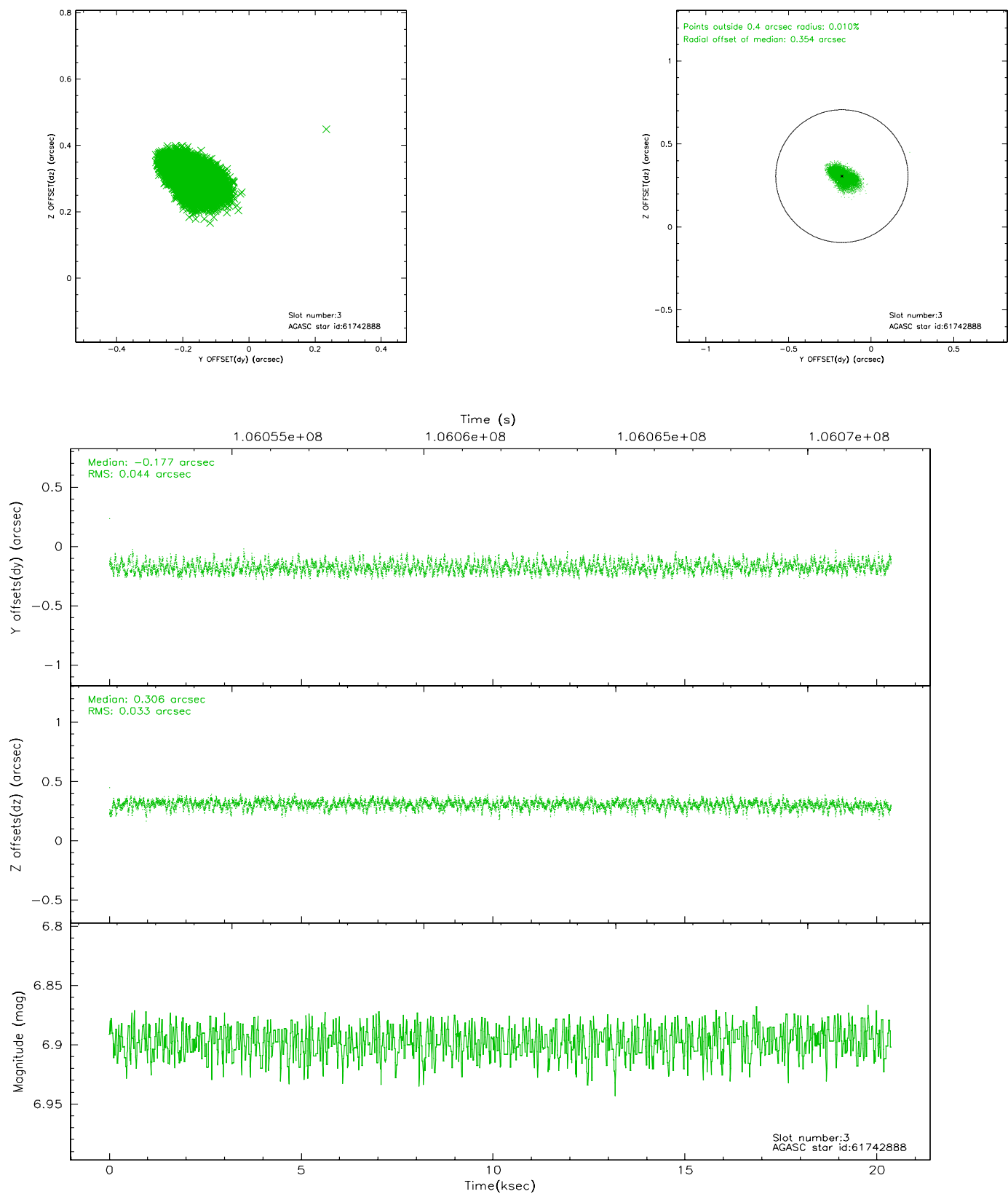


Slot Statistics

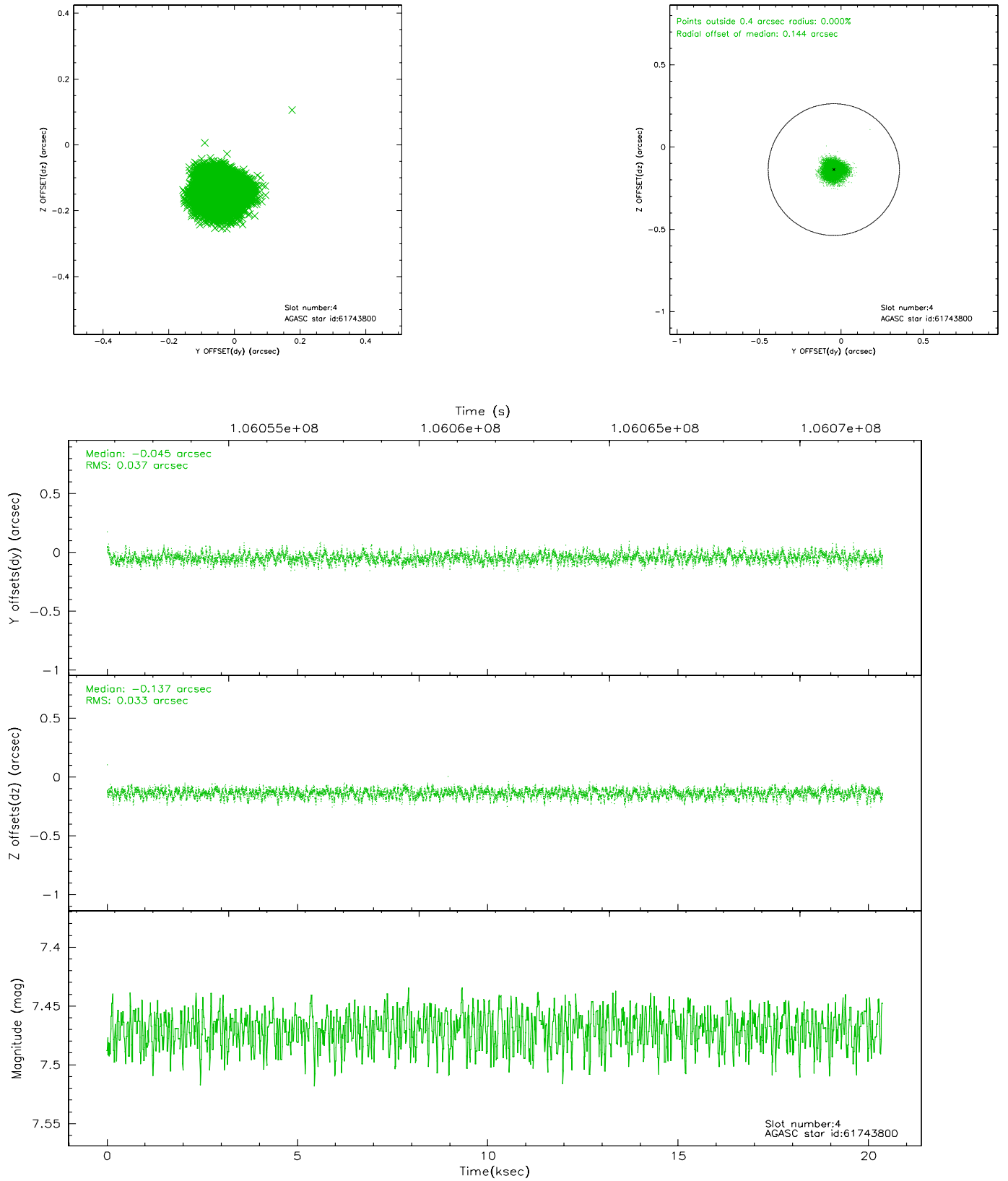
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	4968	-0.015	-0.020	0.007	0.012	0.000000	0.000000	-754.09	-1788.52
1	FID	ACIS-S-4	7.20	4968	-0.066	0.013	0.005	0.009	0.000000	0.000000	2159.07	119.76
2	FID	ACIS-S-5	7.23	4967	0.050	0.016	0.006	0.011	0.000000	0.000000	-1806.62	113.69
3	GUIDE	61742888	6.90	9935	-0.177	0.306	0.059	0.096	288.433450	5.515613	1145.99	-2277.22
4	GUIDE	61743800	7.47	9935	-0.045	-0.137	0.054	0.084	287.776811	5.274666	1290.55	226.18
5	GUIDE	61738240	7.23	9935	0.098	-0.111	0.045	0.074	287.996556	4.354861	-2059.76	826.95
6	GUIDE	61753720	7.55	9936	0.176	-0.147	0.056	0.092	287.814023	4.191087	-2338.74	1663.29
7	GUIDE	61745024	7.60	9931	-0.057	0.093	0.052	0.083	288.156168	5.297362	821.89	-1052.52

2.4 Star Slots

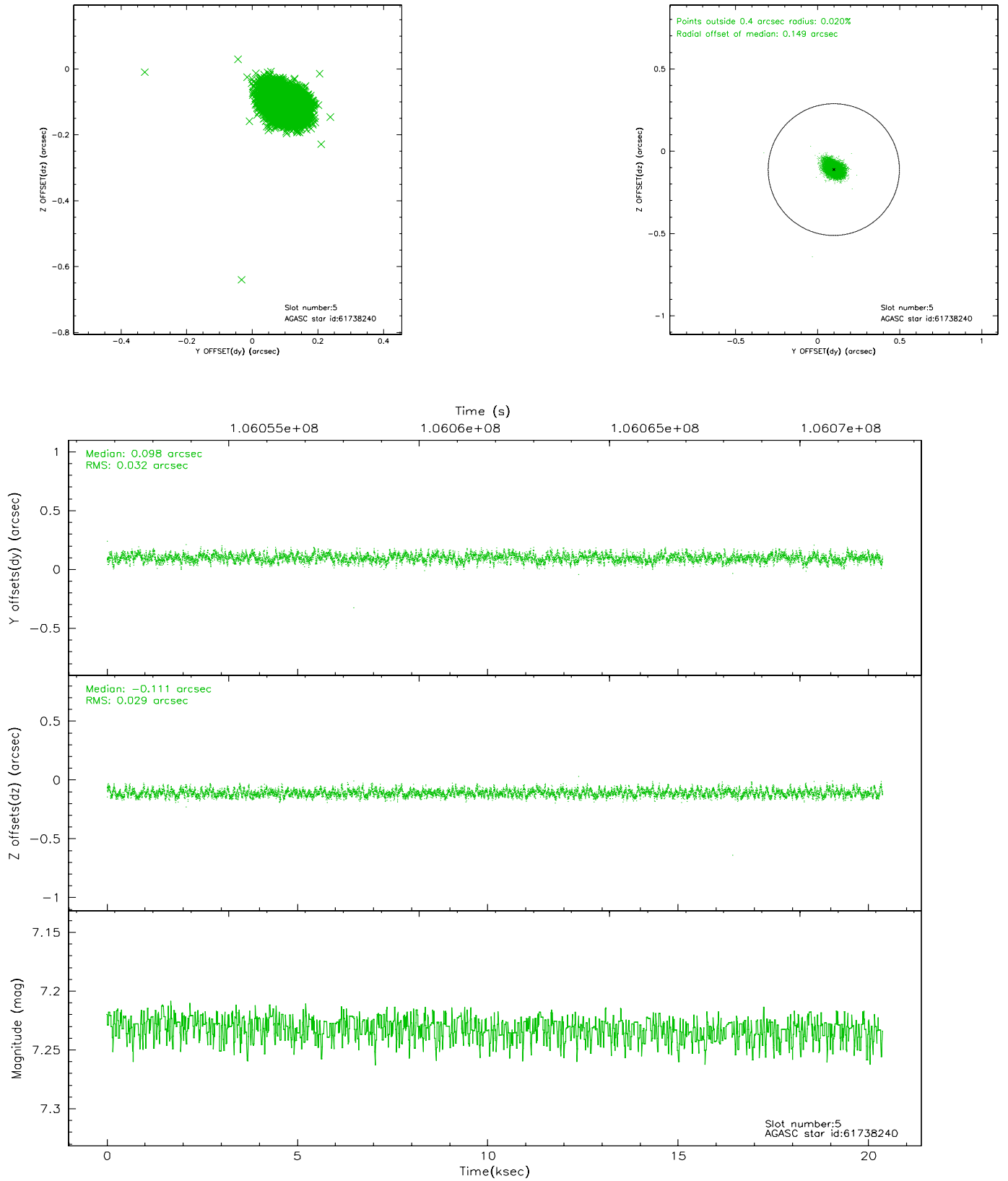
2.4.1 Slot 3



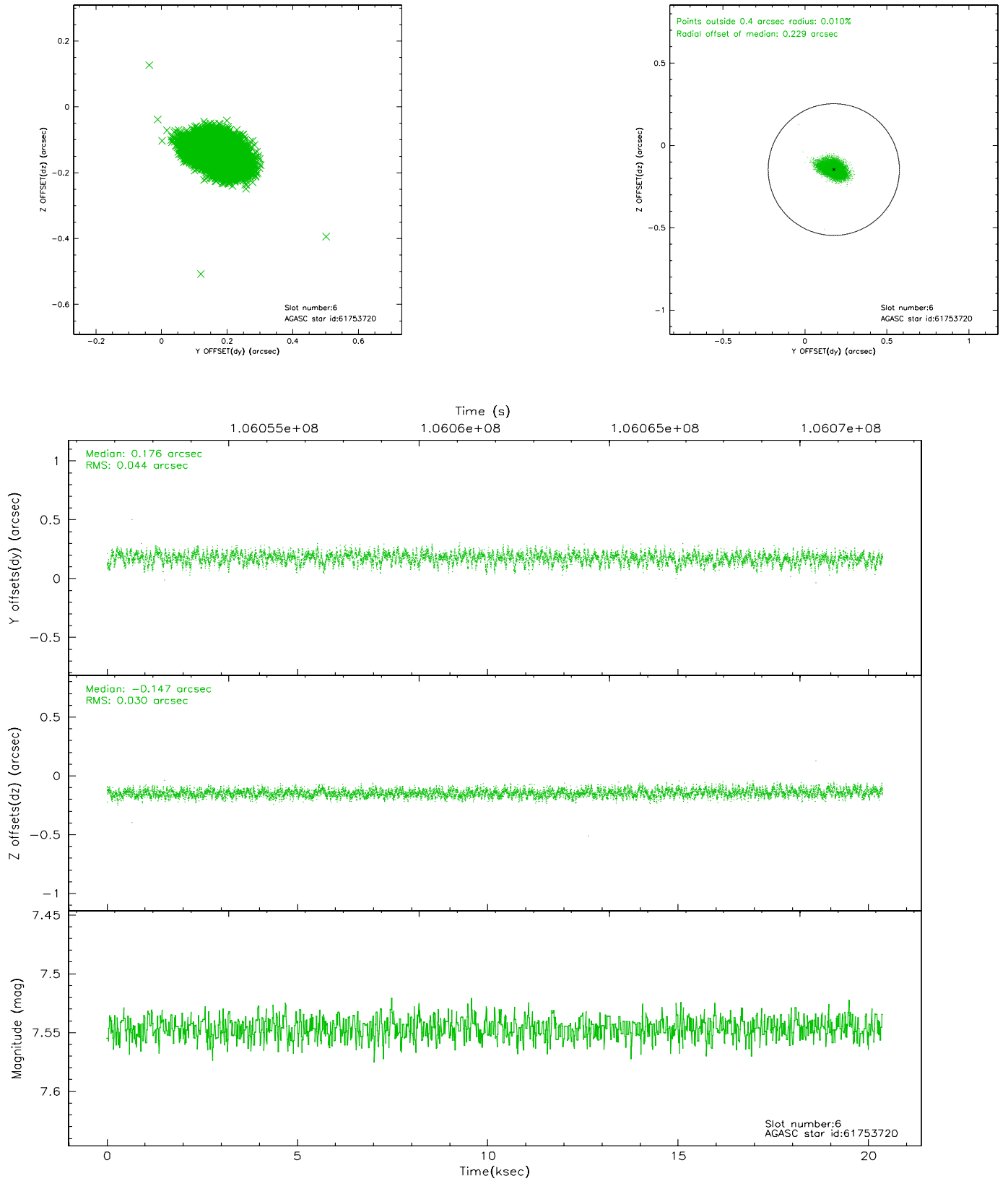
2.4.2 Slot 4



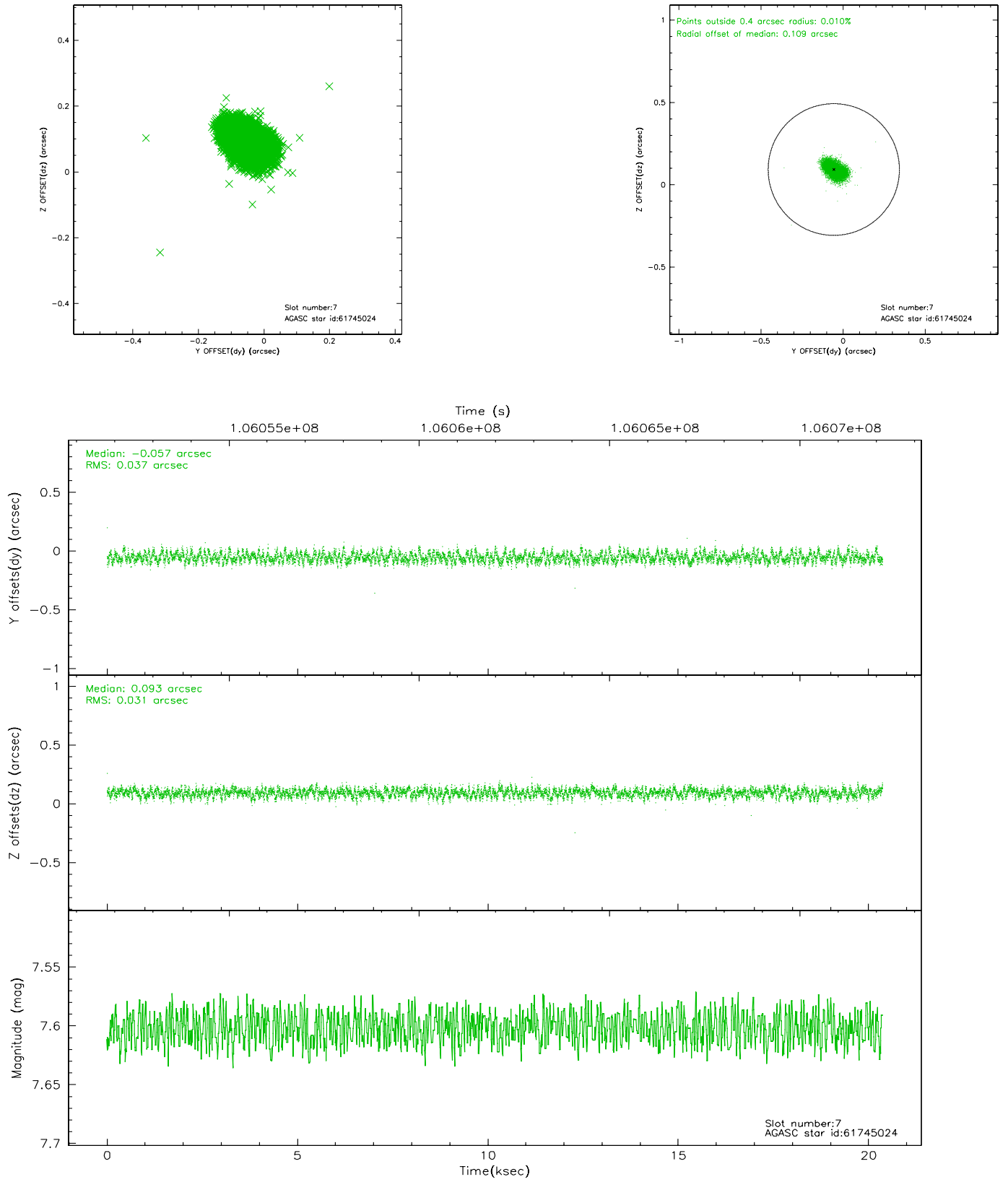
2.4.3 Slot 5



2.4.4 Slot 6

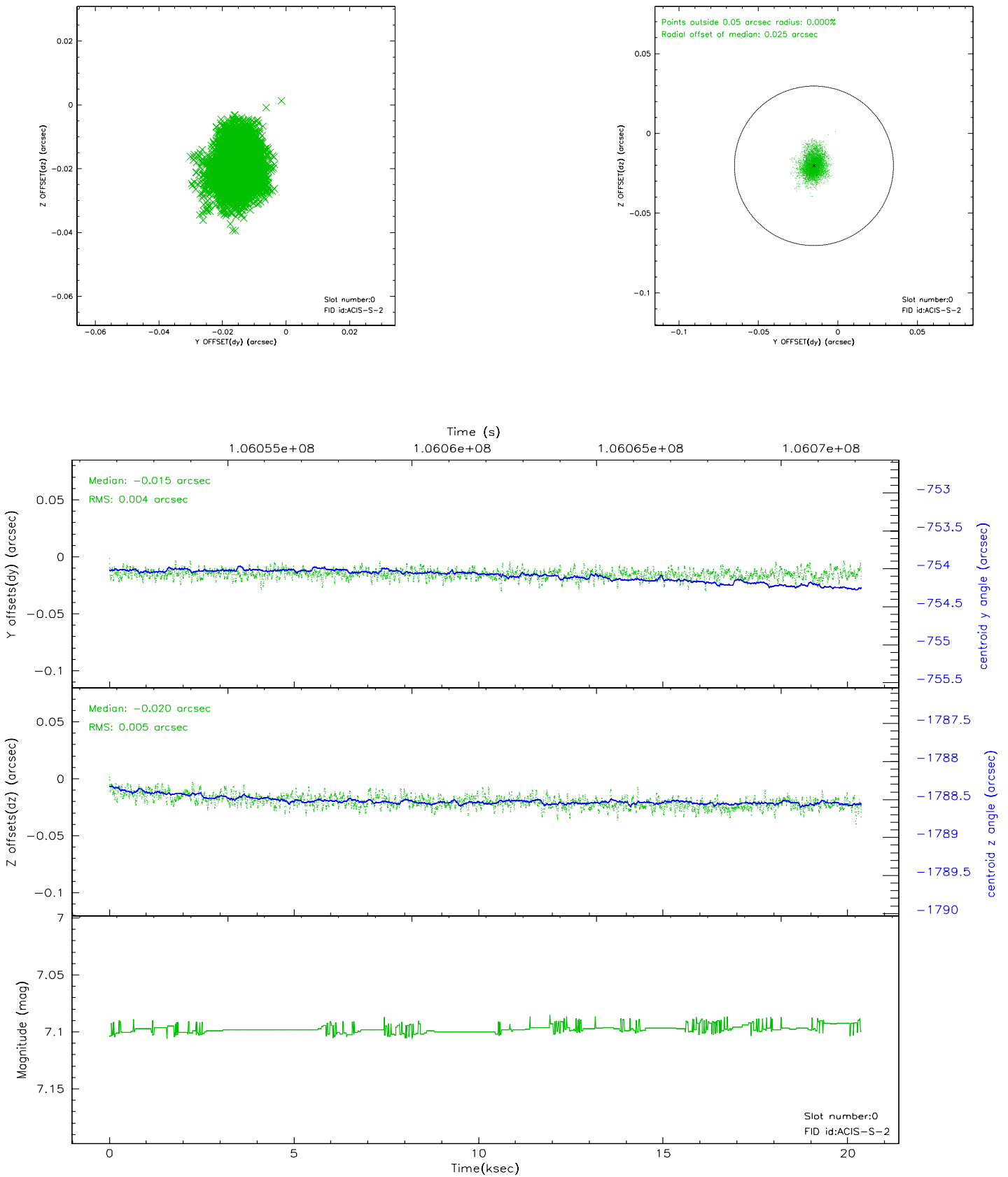


2.4.5 Slot 7

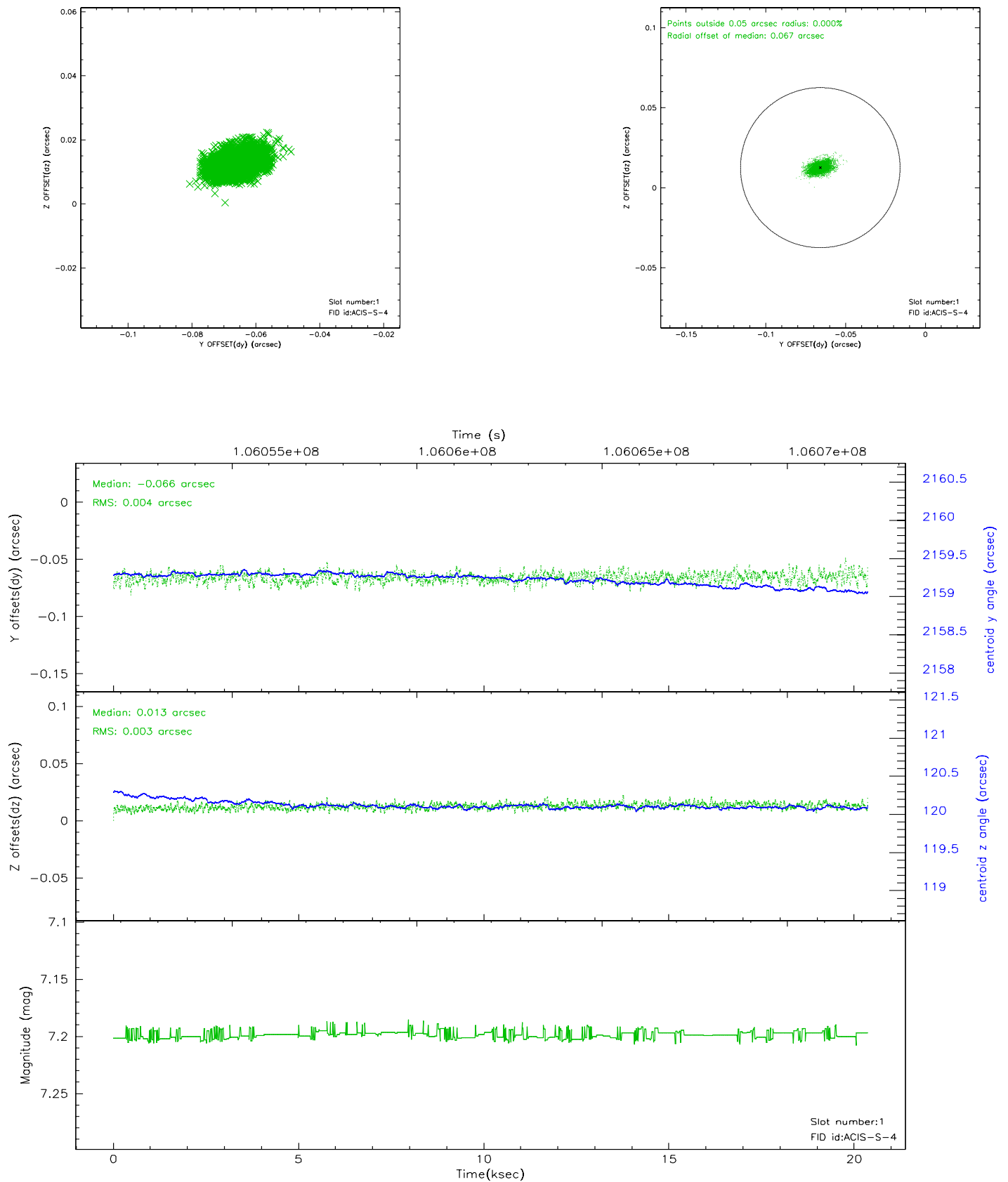


2.5 FID Slots

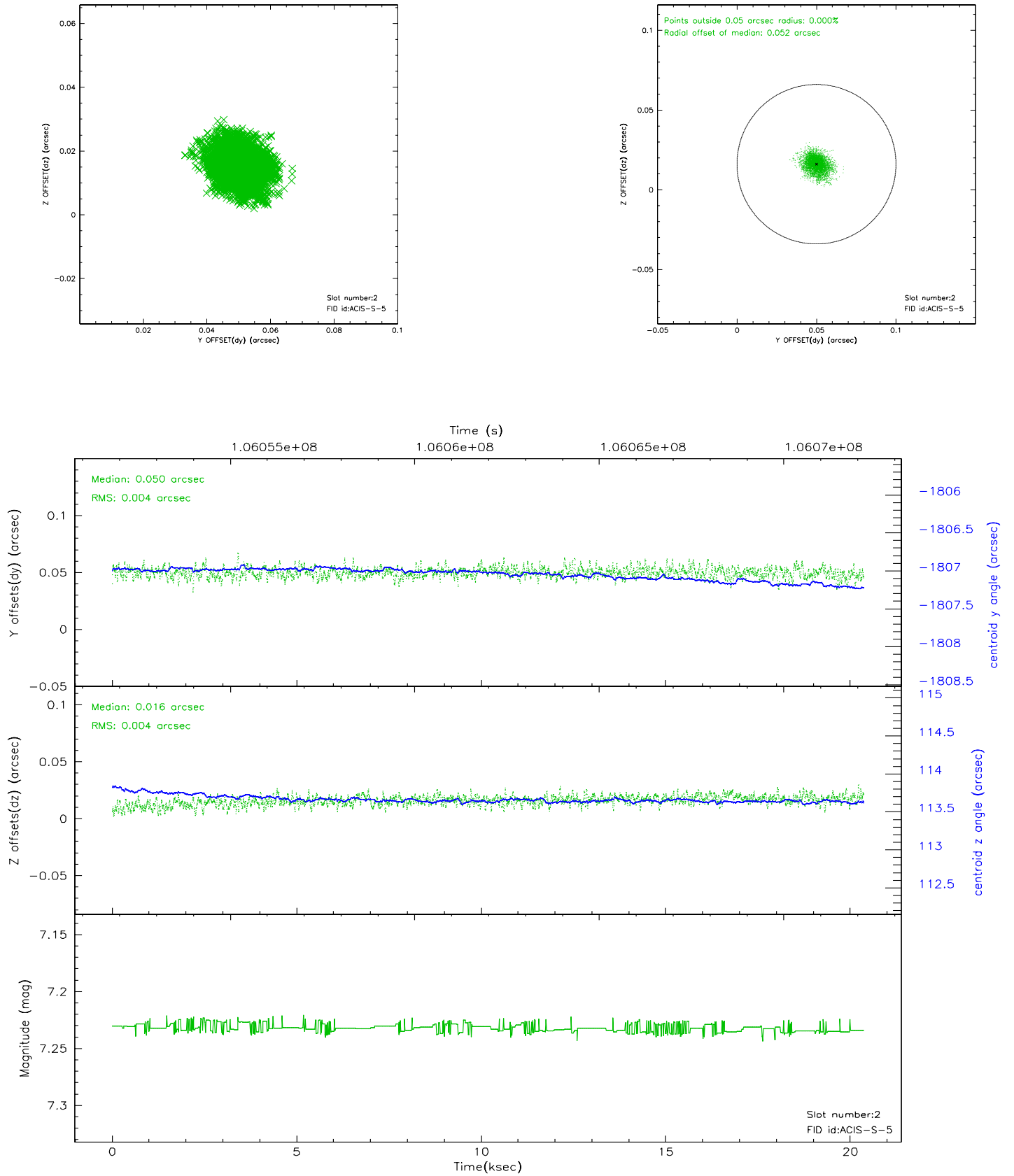
2.5.1 Slot 0



2.5.2 Slot 1

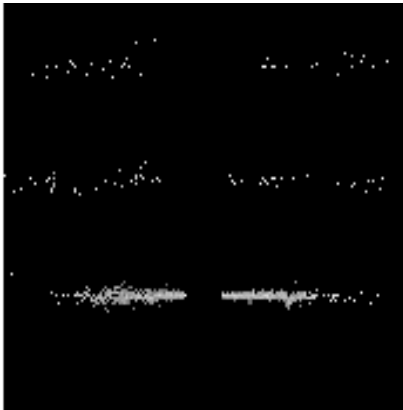


2.5.3 Slot 2

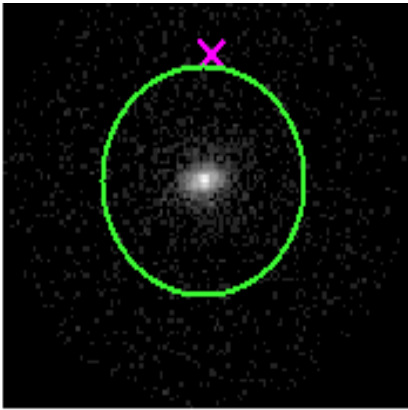


3 Gratings

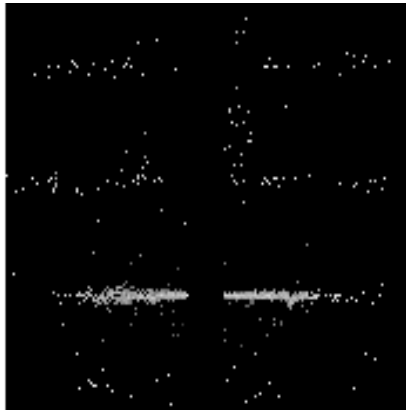
3.1 HEG Arm



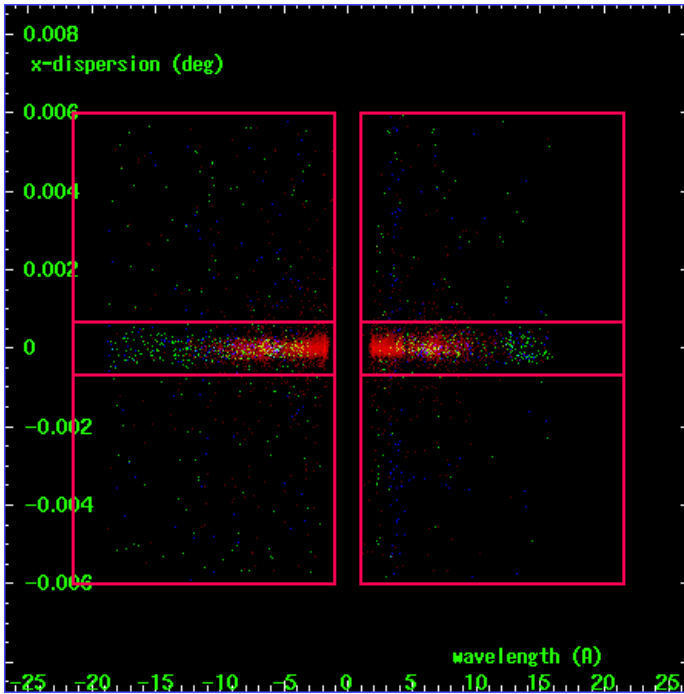
HEG Order Sort 123



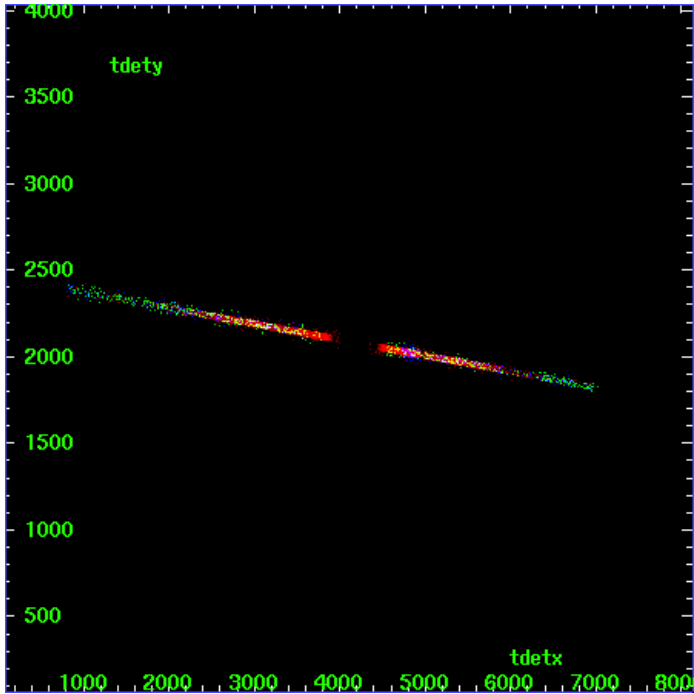
HEG Zero Order



HEG Order Sort ALL

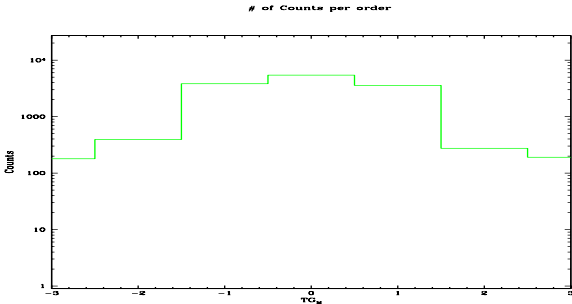


Spot Image HEG

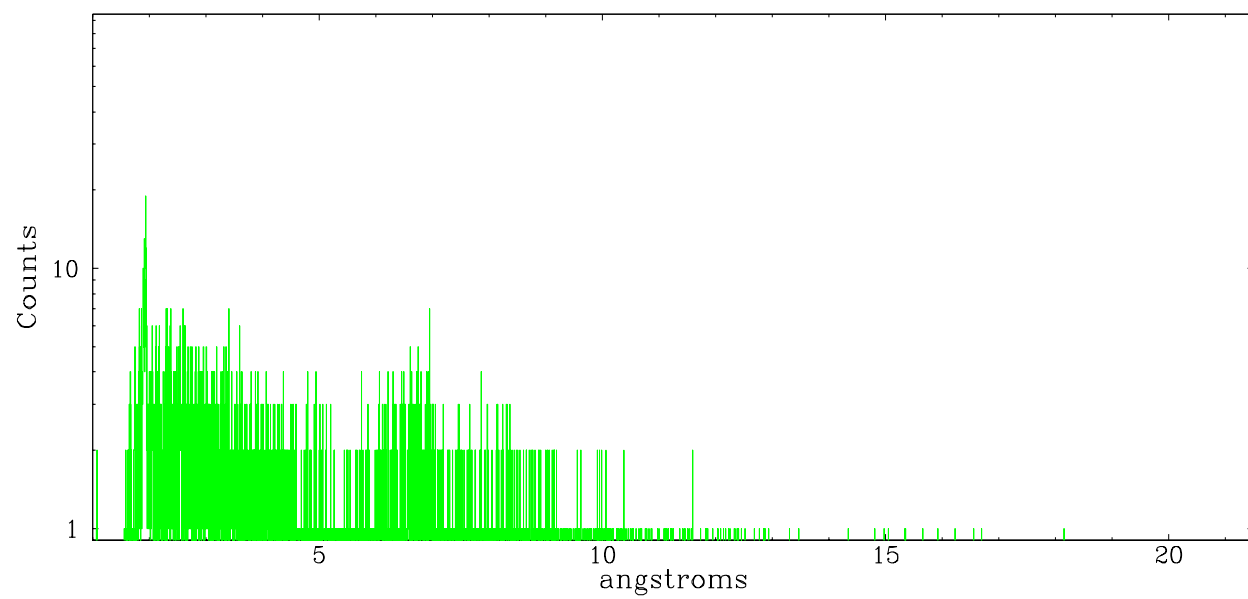


Full Detector HEG

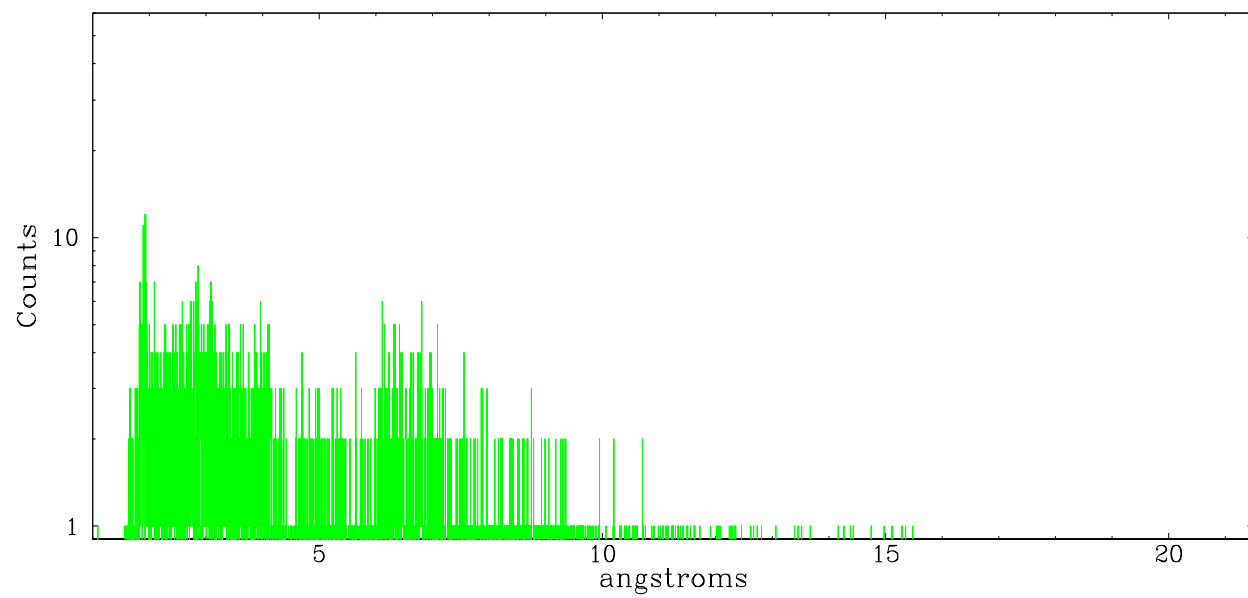
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	179	392	3815	5421	3571	275	191



heg order -1



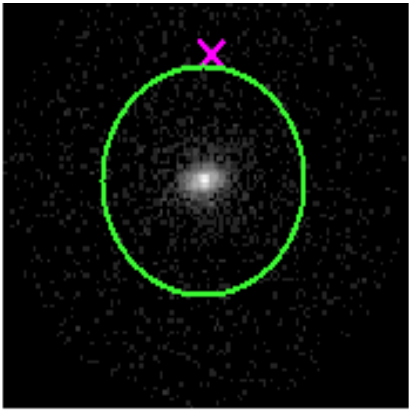
heg order +1



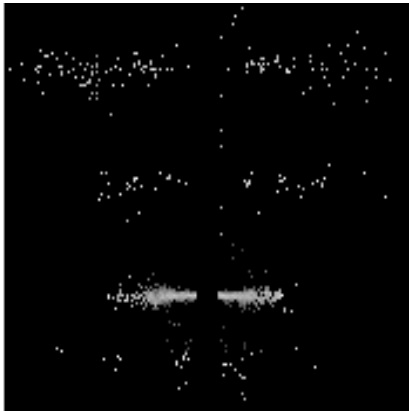
3.2 MEG Arm



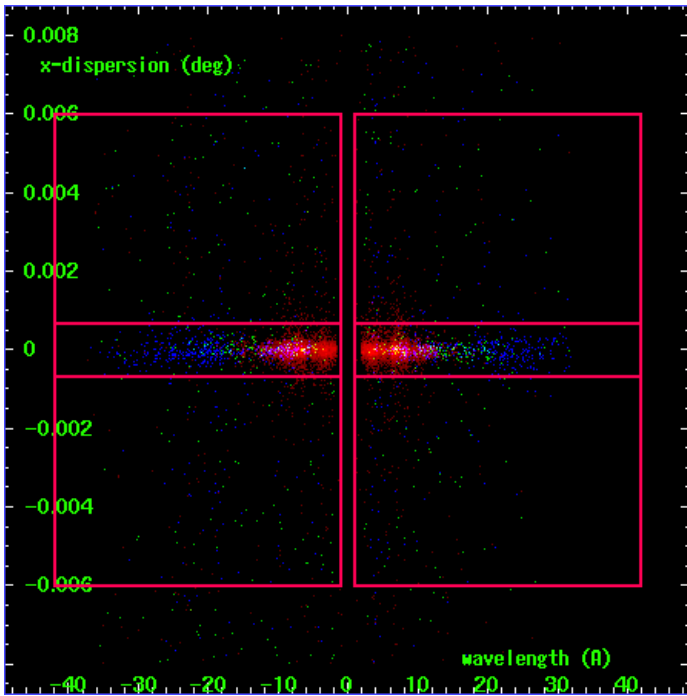
MEG Order Sort 123



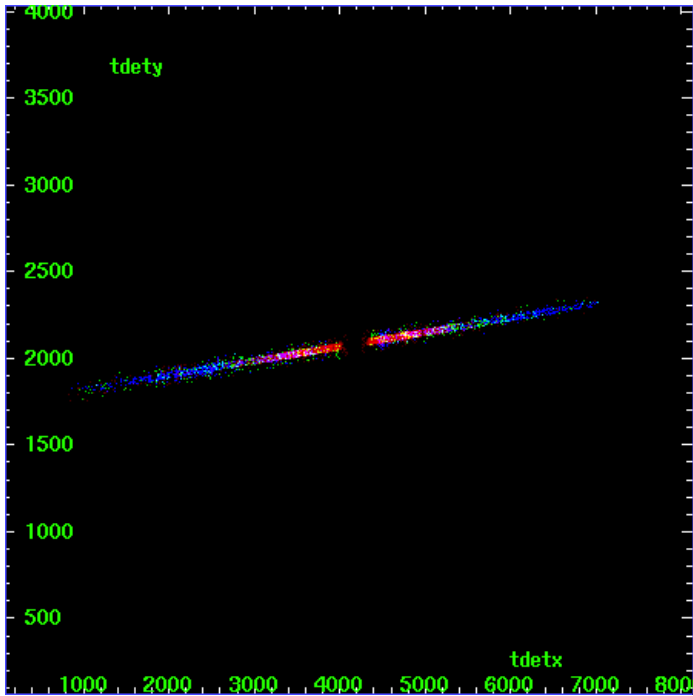
MEG Zero Order



MEG Order Sort ALL

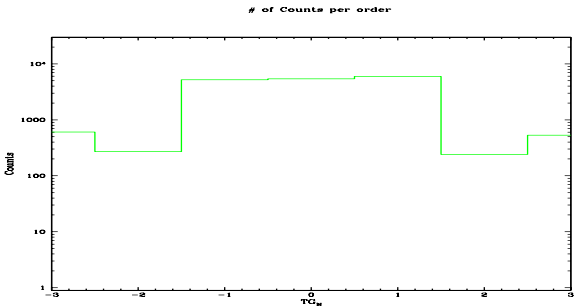


Spot Image MEG

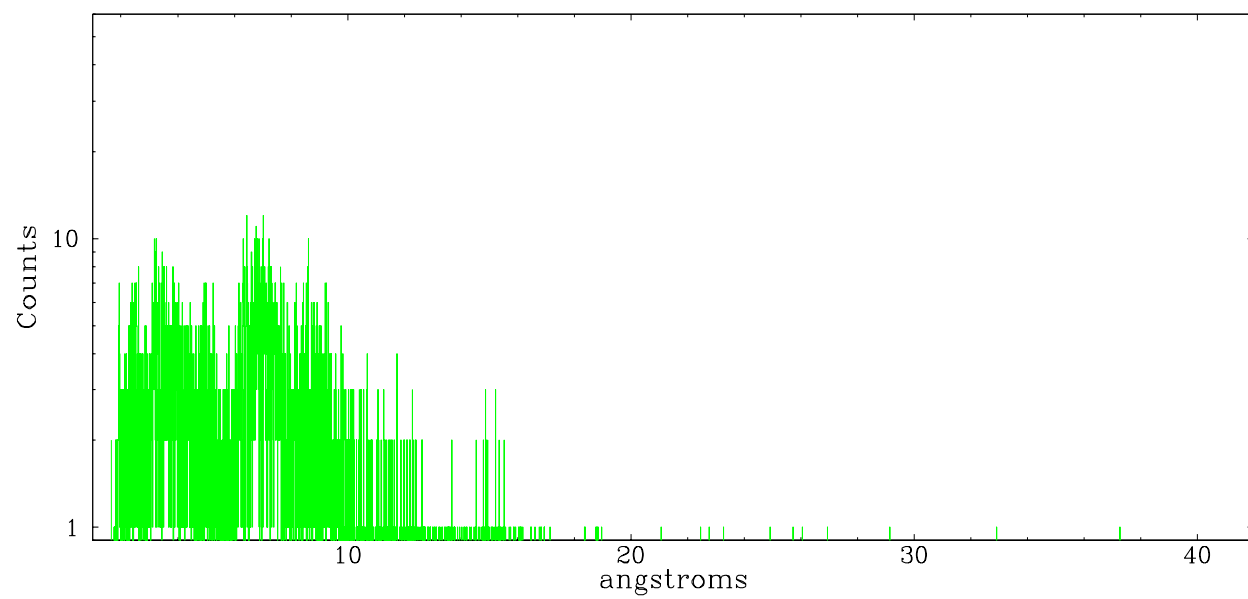


Full Detector MEG

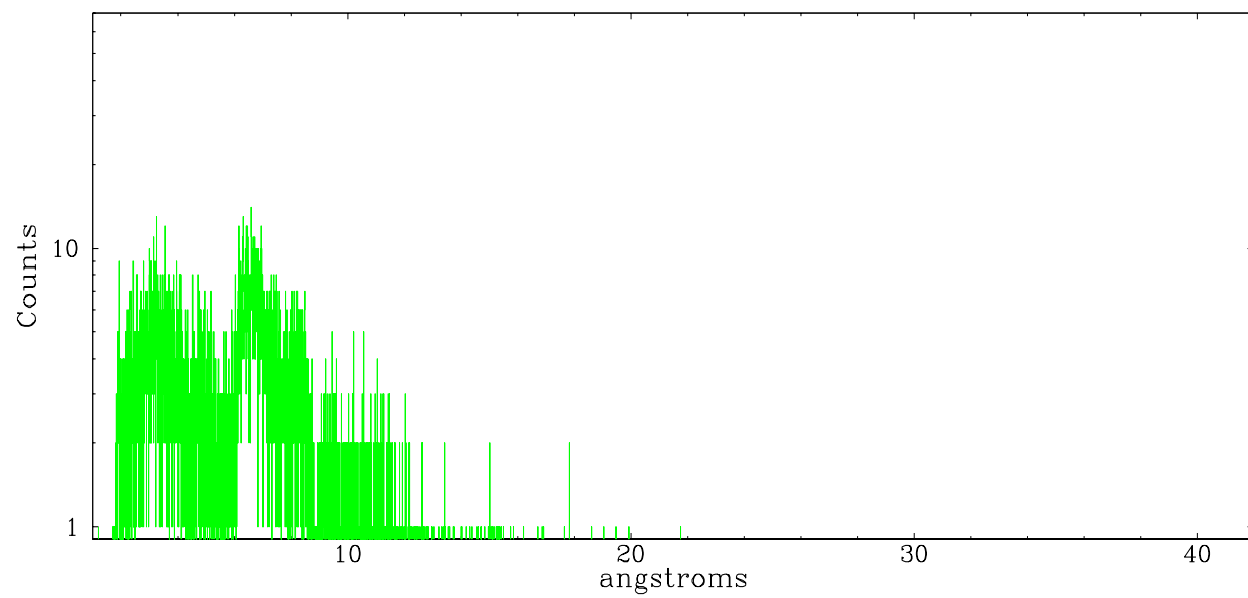
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	605	271	5223	5421	5977	241	530



meg order -1



meg order +1



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2007.01.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	19.948

A.2 Comments

Observation acquired in binary phase 0.25-0.30. Source is extended and standard software processing technique using the tool tgdetect did not give an accurate position for the zeroth order. Zeroth order position for this observation has instead been determined using the known angle between the readout streak and the meg spectral arm. The newly determined zeroth order coordinates, x=4093.93,y=4062.81, have been placed in the *src1a.fits file, replacing the coordinates determined by tgdetect.