

V&V Reference Report

L2 ASCDS Version : 7.6.9

Observation 1909 - L2 Version 001
Chandra X-Ray Center

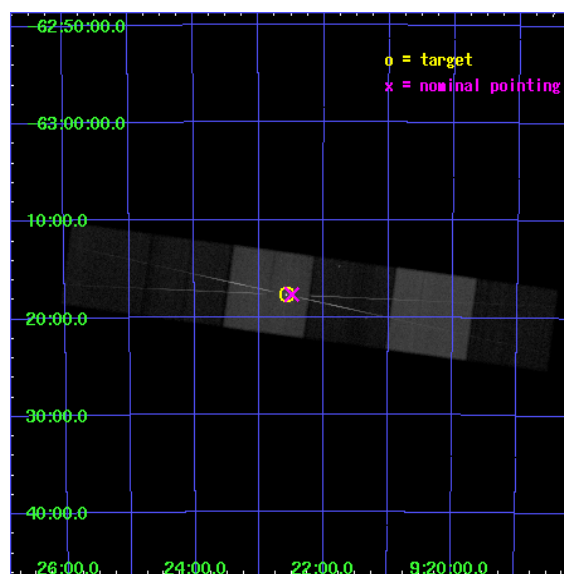
L2 Processing Date : Dec 19 2006

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1 Front

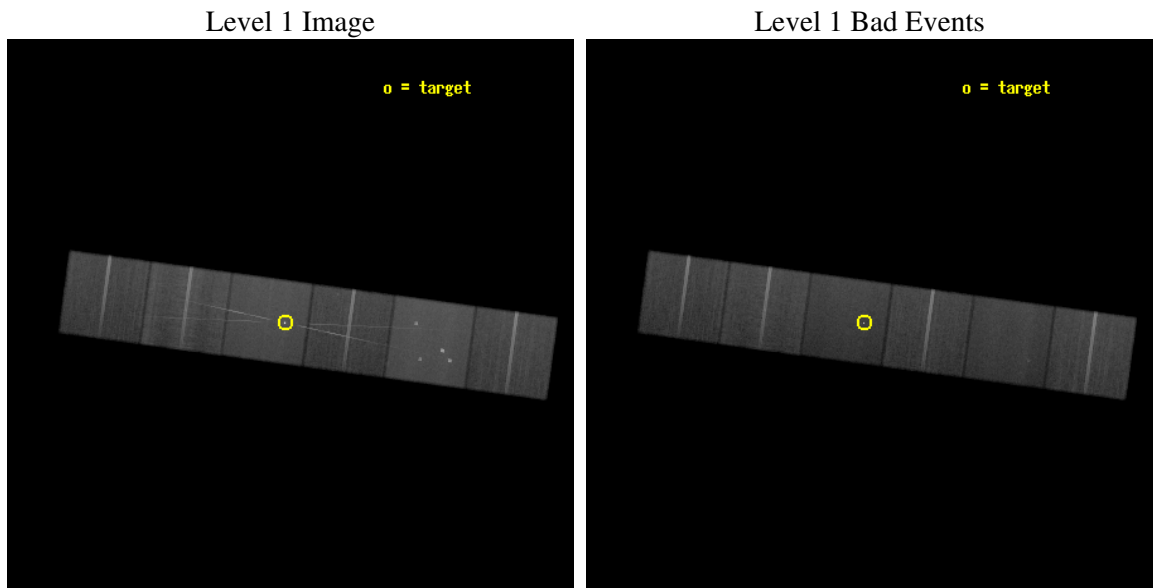
seq_num	400122
obs_id	1909
title	HIGH RESOLUTION SPECTROSCOPY OF THE ADC SOURCE 2S0921-630
observer	Dr. Timothy Kallman
object	2S0921-630
dtcycle	0
cycle	P
ra_targ	140.644583
dec_targ	-63.295
ra_nom	140.62292365956
dec_nom	-63.294572409332
roll_nom	187.71100776505
revision	2
ontime	75718.400070518
livetime	74759.608096679
ontime4	75711.918150023
ontime5	75718.400070518
ontime6	75715.159110278
ontime7	75718.400070518
ontime8	75718.400070518
ontime9	75718.400070518
l2events	784579



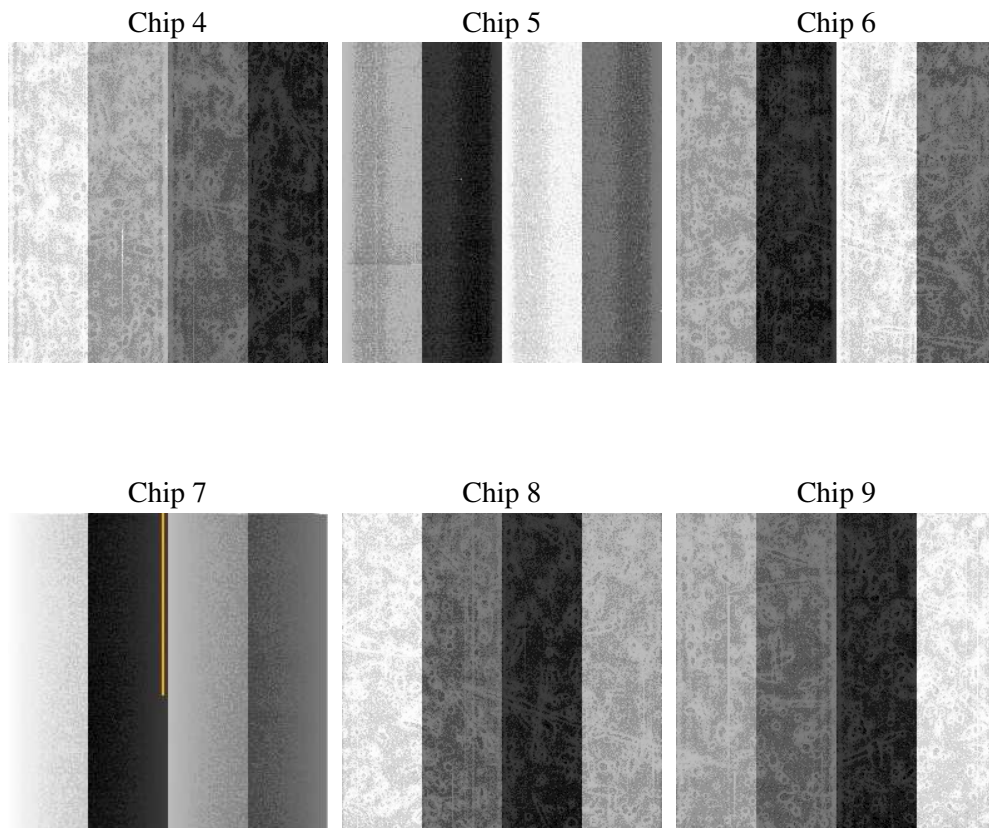
2 OBI

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	2006-12-16T03:10:28
revision	2

sched_exp_time	76000.000000
ontime	75722.68008934
ontime4	75716.198168844
ontime5	75722.68008934
ontime6	75719.439129099
ontime7	75722.68008934
ontime8	75722.68008934
ontime9	75722.68008934
l1events	3586392

2.1.4 Events

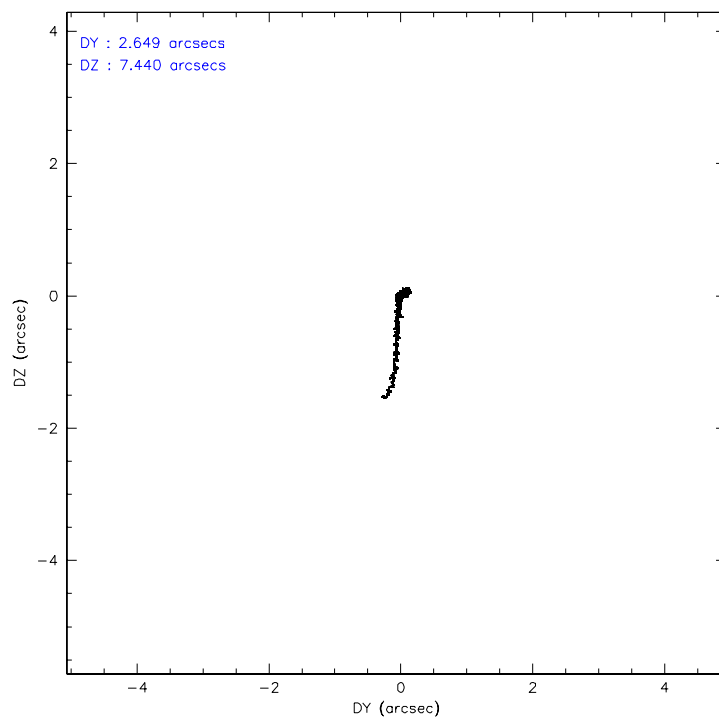
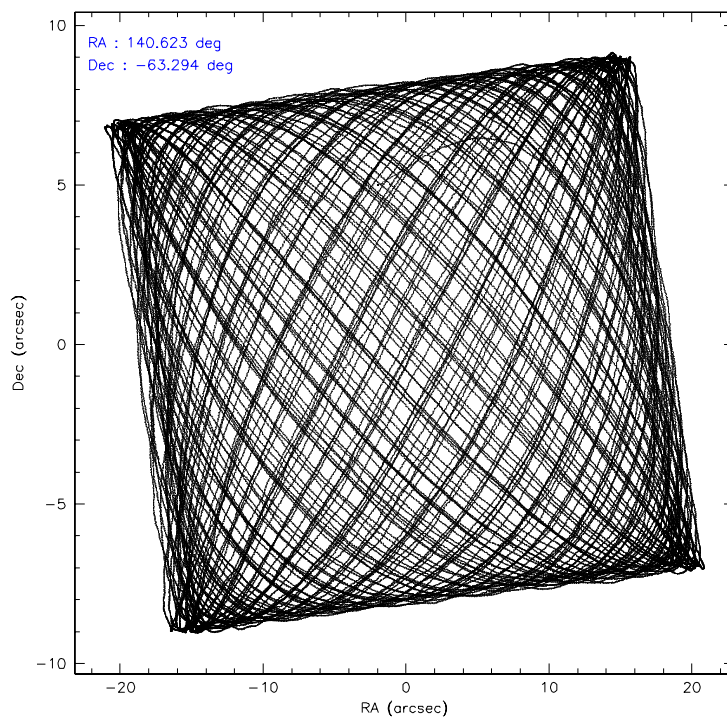
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	551826	703830	522549	672040	634588	501559
rejected events	492786	388480	448580	395496	503641	442650
rejected %	89%	55%	85%	58%	79%	88%

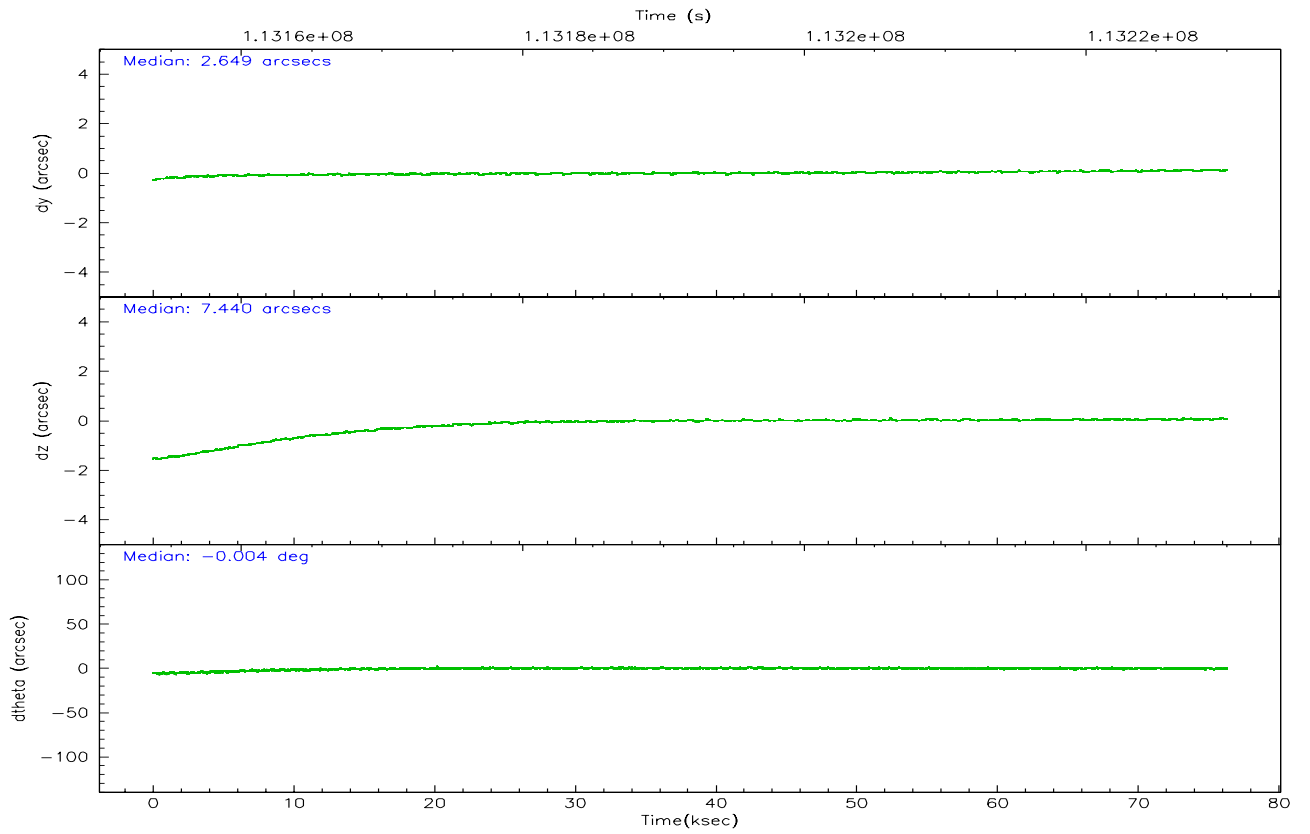
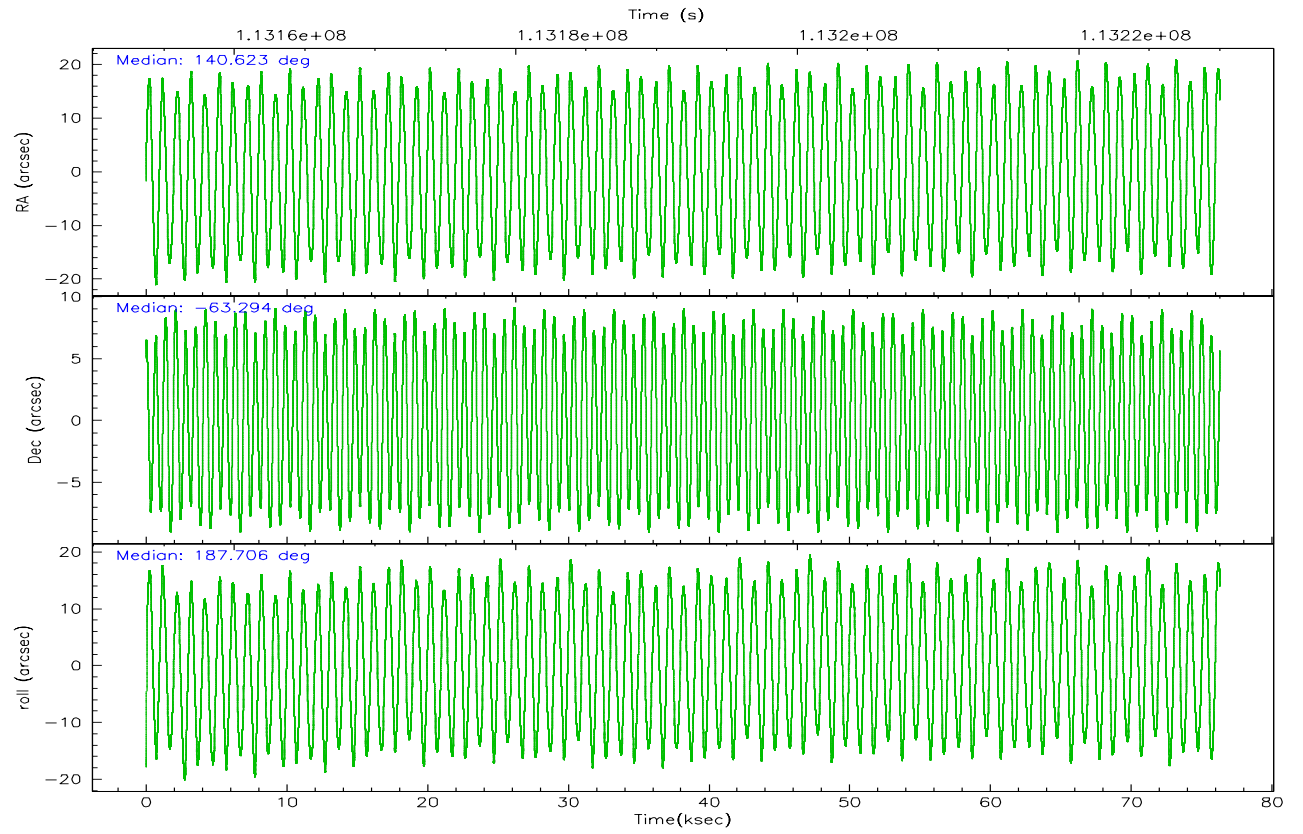
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	23735	33005	35386	19422	45285	24065
	4%	4%	6%	2%	7%	4%
grade 1 events	245	880	295	612	362	232
	0%	0%	0%	0%	0%	0%
grade 2 events	14387	93706	13687	68348	27609	11758
	2%	13%	2%	10%	4%	2%
grade 3 events	5466	7113	6493	16247	13493	5866
	0%	1%	1%	2%	2%	1%
grade 4 events	5239	6732	6402	15742	12571	5621
	0%	0%	1%	2%	1%	1%
grade 5 events	17387	33964	21152	45315	27049	21601
	3%	4%	4%	6%	4%	4%
grade 6 events	10215	174806	12004	156795	31990	11604
	1%	24%	2%	23%	5%	2%
grade 7 events	475152	353624	427130	349559	476229	420812
	86%	50%	81%	52%	75%	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	140.670490	140.6229236595586	Subarray requested	NONE	NONE
Pointing Dec	-63.277646	-63.29457240933176	Alternating exposures requested	N	N
Pointing Roll	187.596873	187.711007765051	Primary exposure time	0.000000	3.2
SIM focus pos (mm)	-0.684267	-0.6828225247311905			
SIM defocus (mm)	0	0.001444936568705701			
SIM translation stage pos (mm)	-190.132523	-190.1400660498719			
SIM translation stage offset (mm)	0	0.00754346686406393			
Phase constraints	Y	Y			
Phase period	9.011500	9.011500			
Phase epoch	50303.860000	50303.860000			
Phase start	0.948000	0.948000			
Phase end	0.052000	0.052000			
Phase start error	0.010000	0.010000			
Phase end error	0.010000	0.010000			
Observation start time	113154052.184000	113153029.89214			
Observation start date	2001-08-02T15:39:48	2001-08-02T15:23:49			
Observation end time	113230052.184000	113230873.00771			
Observation end date	2001-08-03T12:46:28	2001-08-03T13:01:13			
Read mode	TIMED	TIMED			

2.3 Aspect



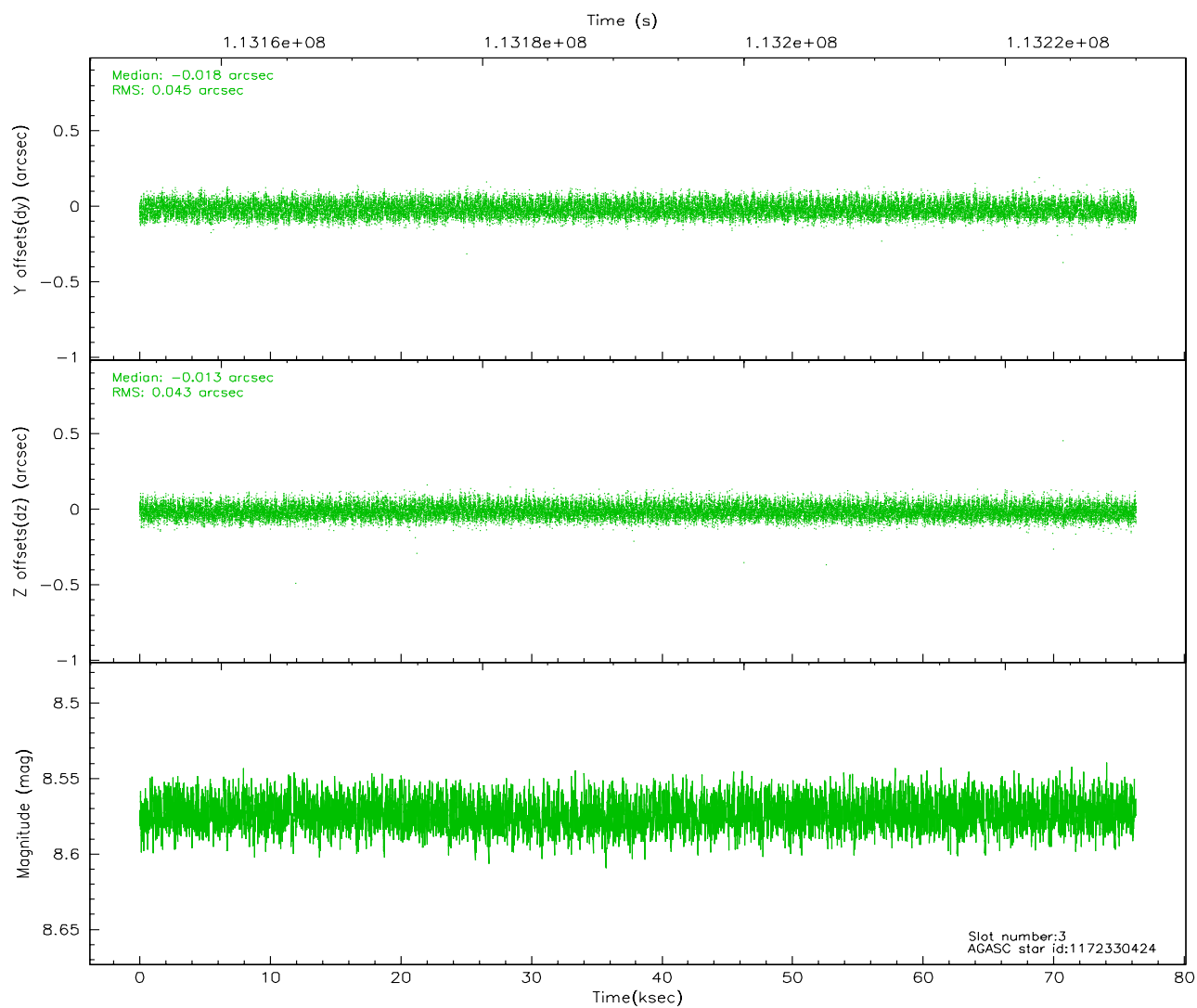
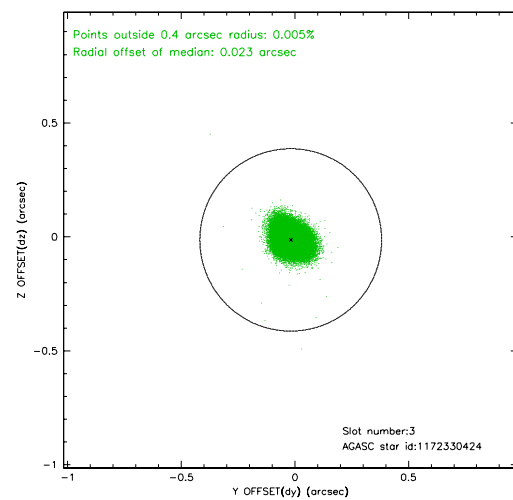
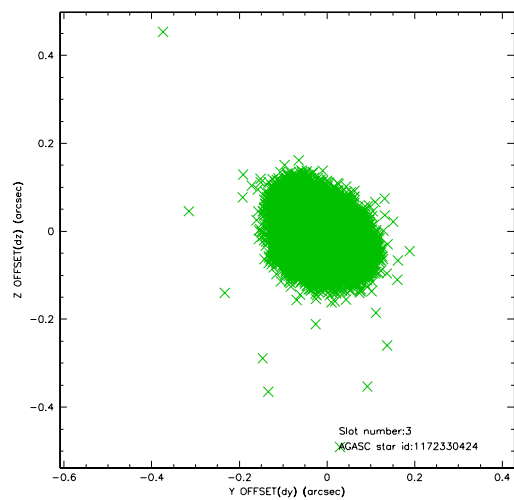


Slot Statistics

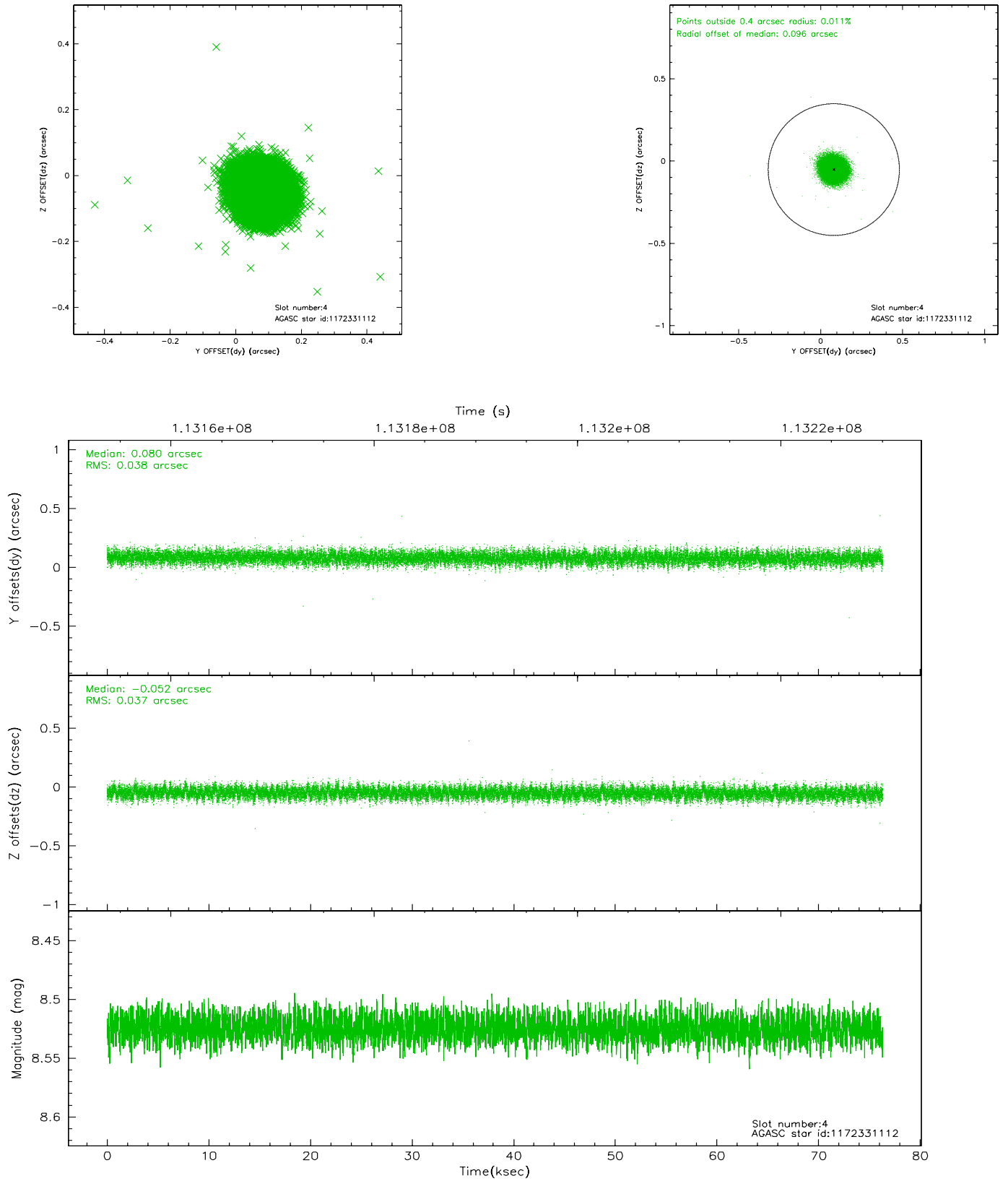
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.19	18614	0.014	-0.031	0.010	0.027	0.000000	0.000000	940.73	-1724.09
1	FID	ACIS-S-5	7.24	18612	0.029	0.030	0.010	0.029	0.000000	0.000000	-1808.24	173.65
2	FID	ACIS-S-6	7.36	18612	-0.063	0.012	0.012	0.032	0.000000	0.000000	406.34	817.47
3	GUIDE	1172330424	8.57	37204	-0.018	-0.013	0.067	0.105	141.095617	-63.718354	-461.90	1665.32
4	GUIDE	1172331112	8.52	37217	0.080	-0.052	0.056	0.090	139.392267	-63.387363	2098.16	140.27
5	GUIDE	1172326088	8.75	37219	0.002	0.009	0.080	0.126	139.836347	-62.732843	1105.88	-2116.24
6	GUIDE	1172328272	8.98	37219	-0.018	0.107	0.084	0.144	140.830613	-63.056322	-364.08	-754.11
7	GUIDE	1172444528	9.37	37214	-0.050	-0.049	0.079	0.133	141.976684	-63.288819	-2086.80	341.15

2.4 Star Slots

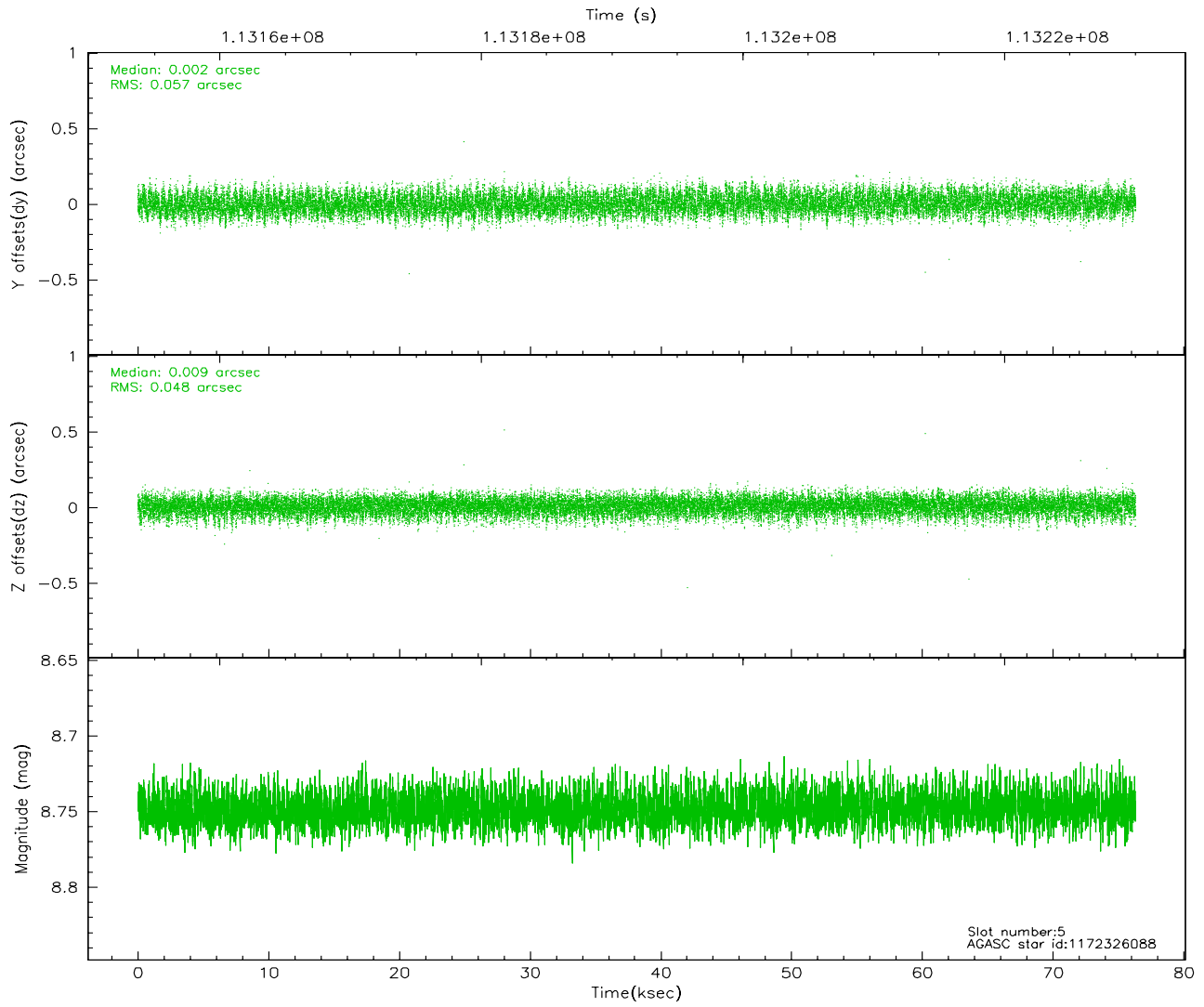
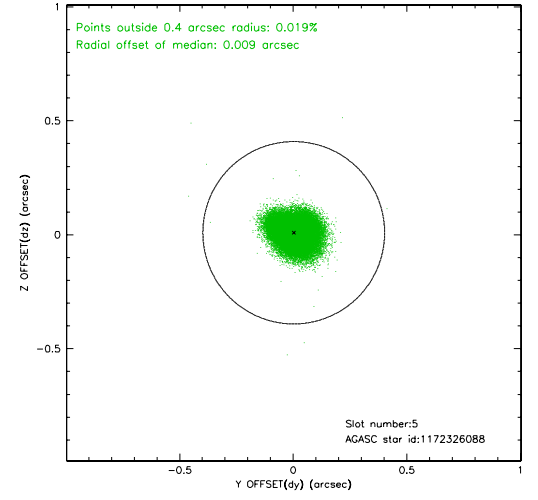
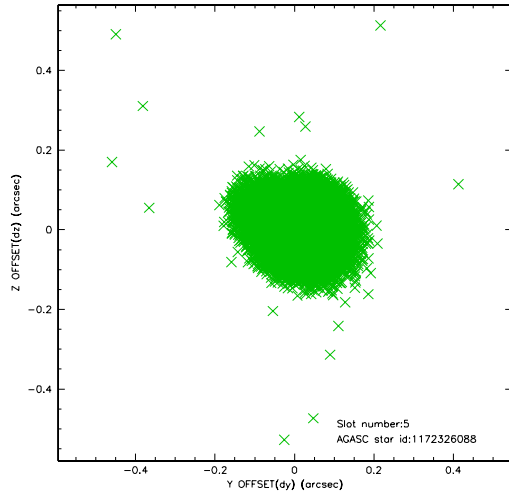
2.4.1 Slot 3



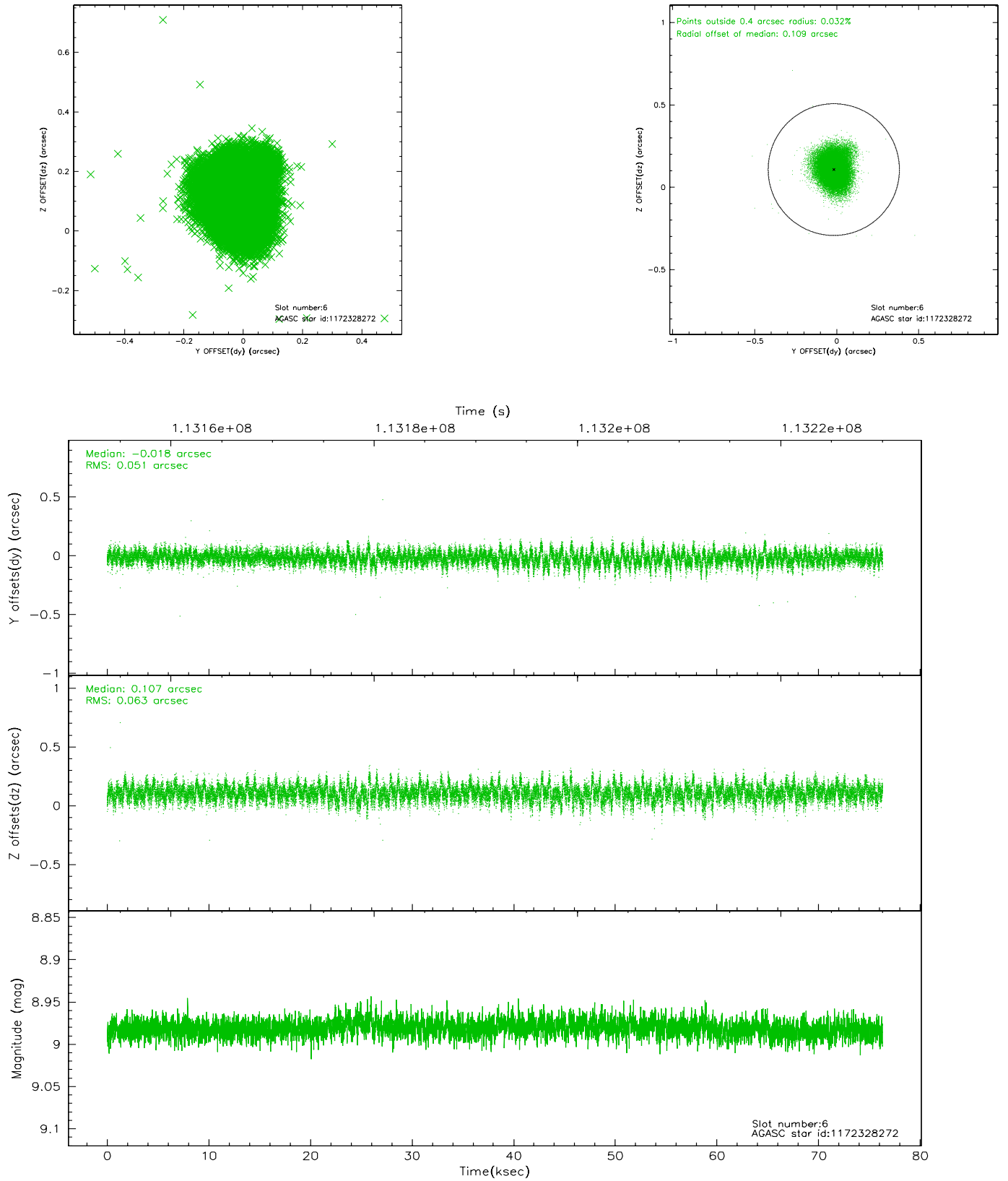
2.4.2 Slot 4



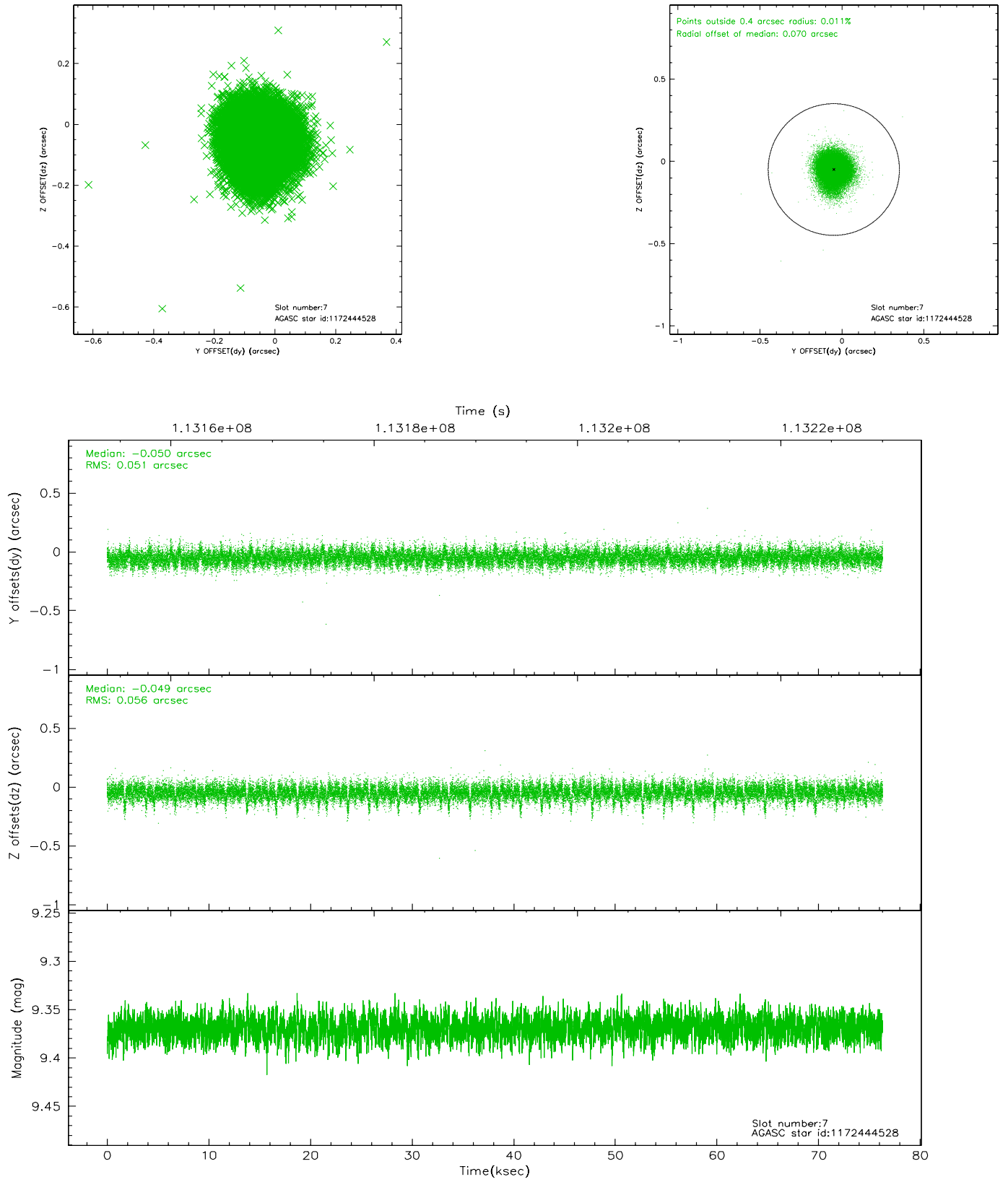
2.4.3 Slot 5



2.4.4 Slot 6

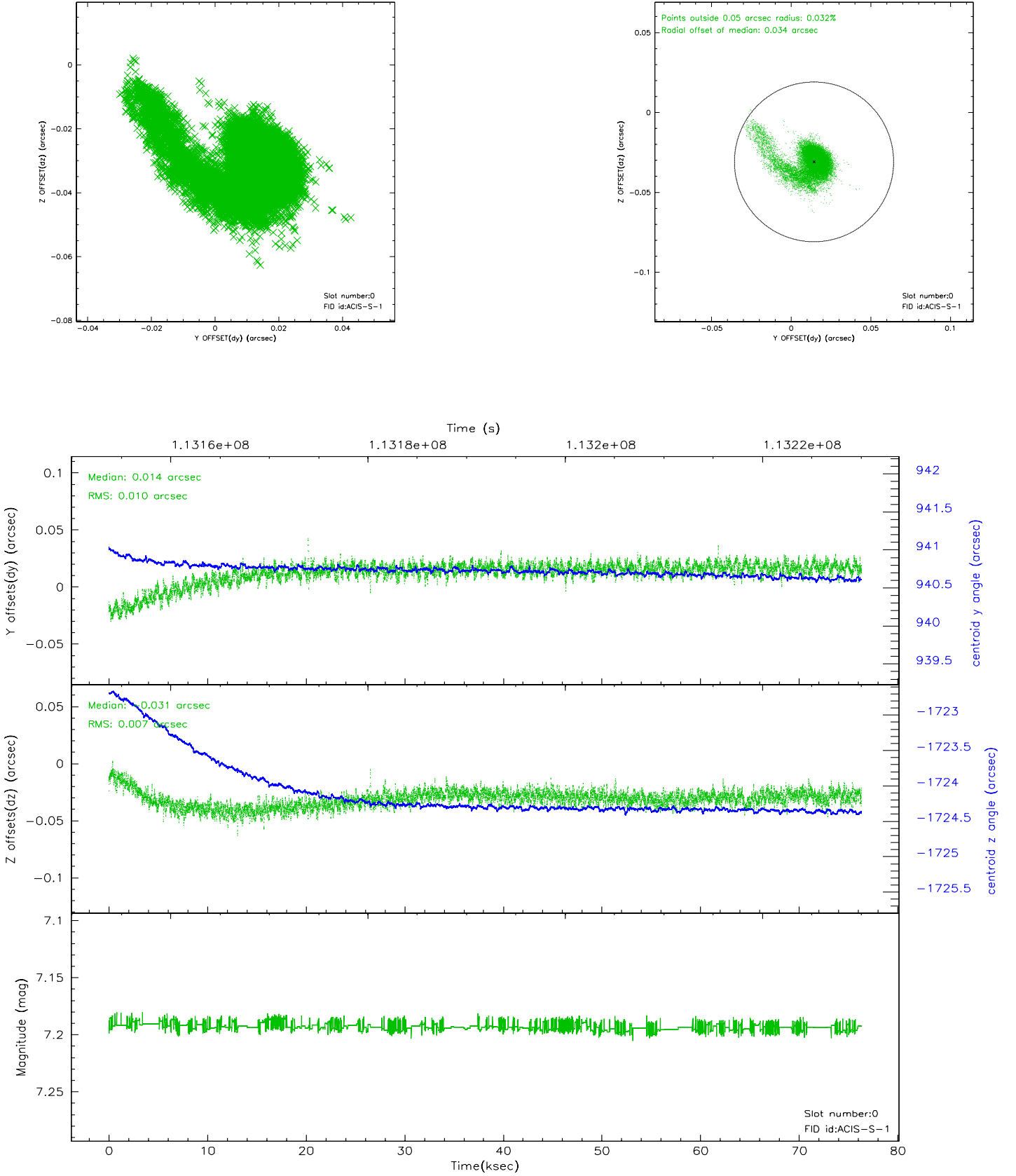


2.4.5 Slot 7

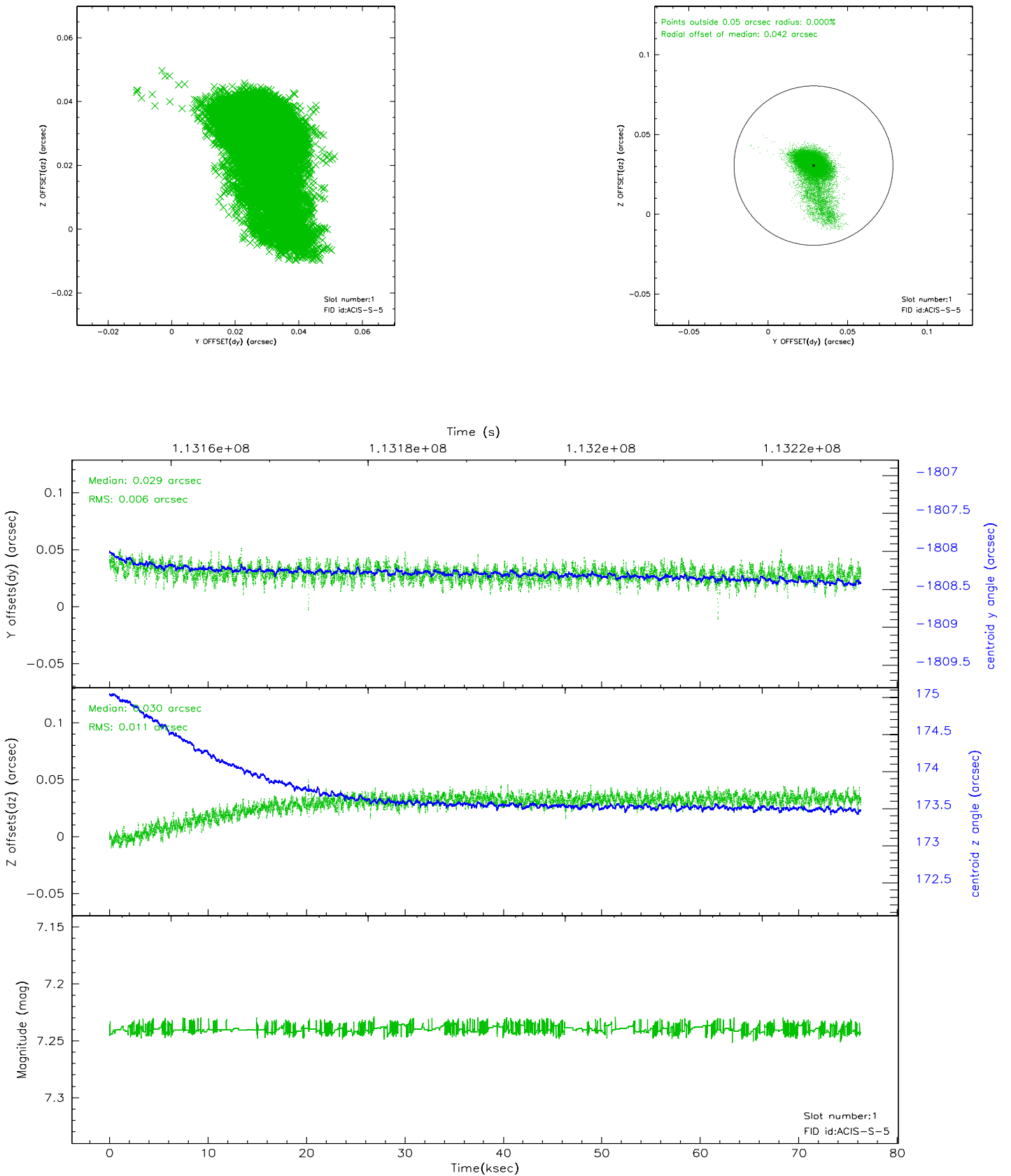


2.5 FID Slots

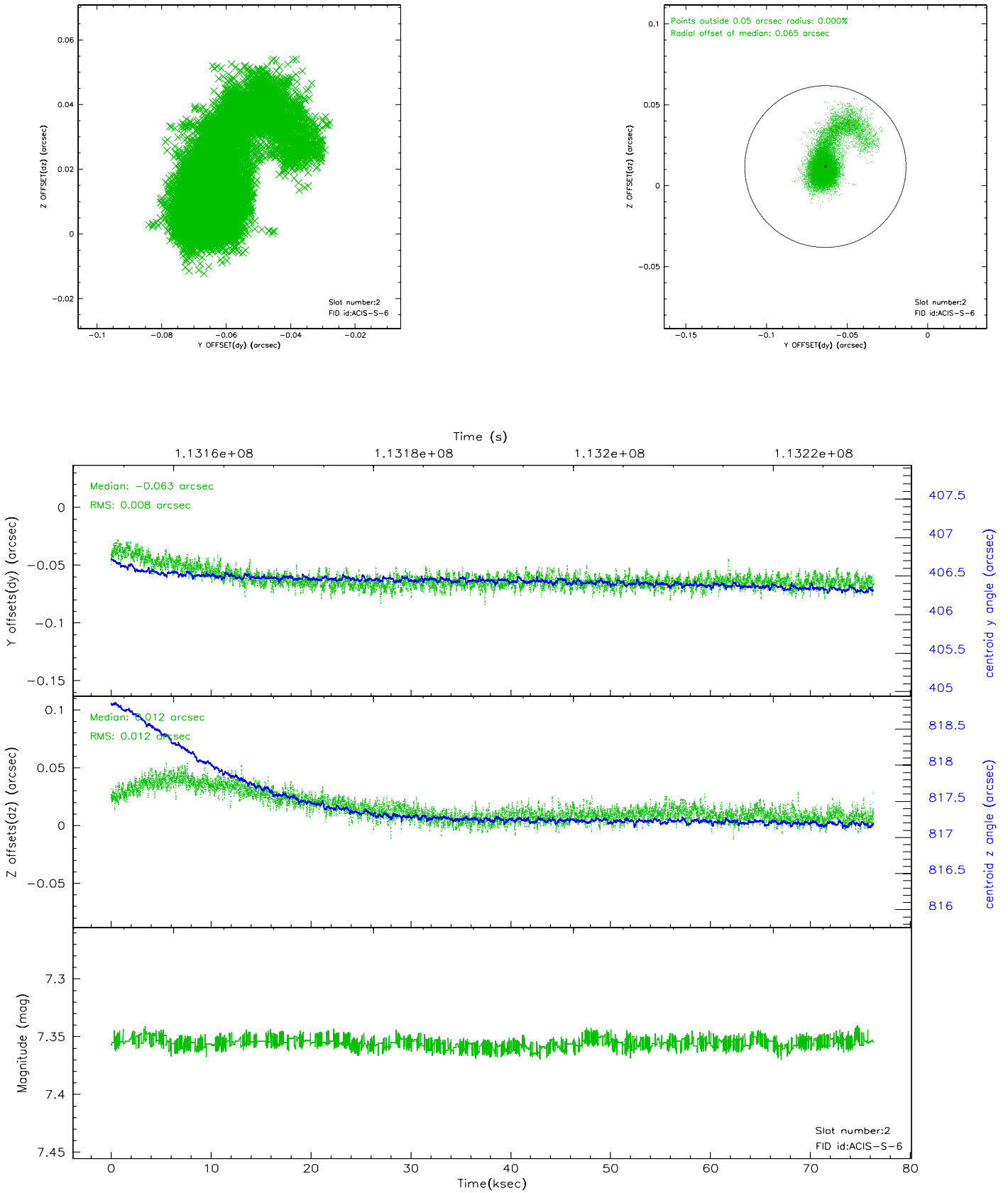
2.5.1 Slot 0



2.5.2 Slot 1

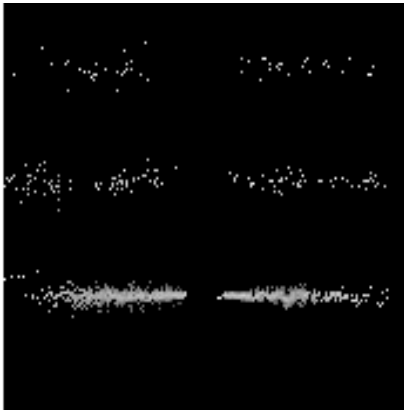


2.5.3 Slot 2

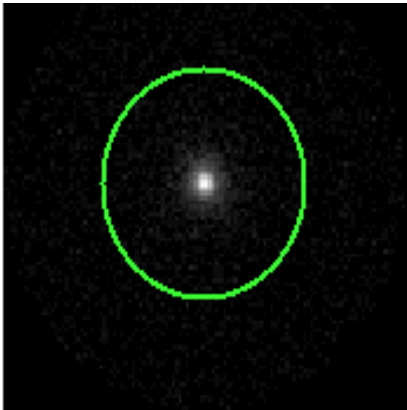


3 Gratings

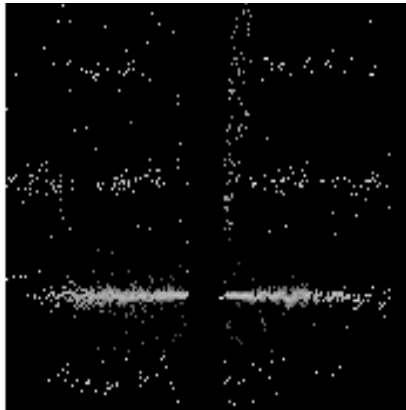
3.1 HEG Arm



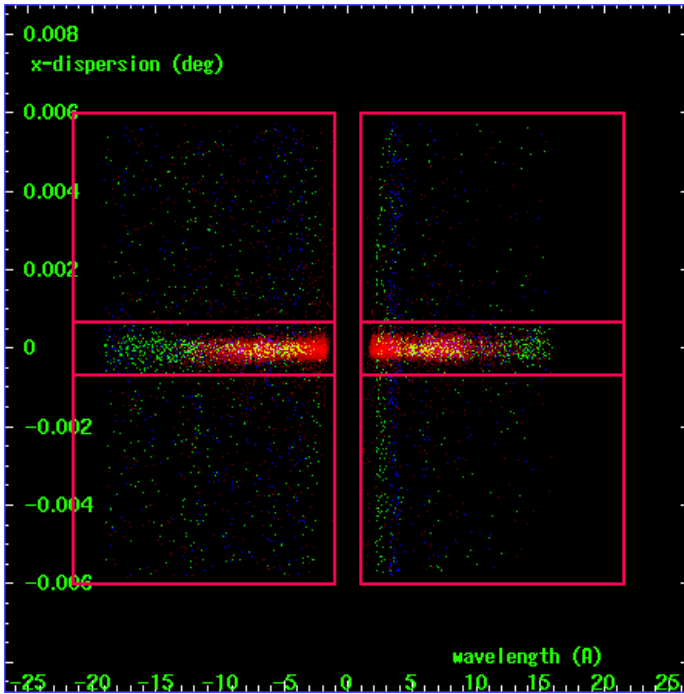
HEG Order Sort 123



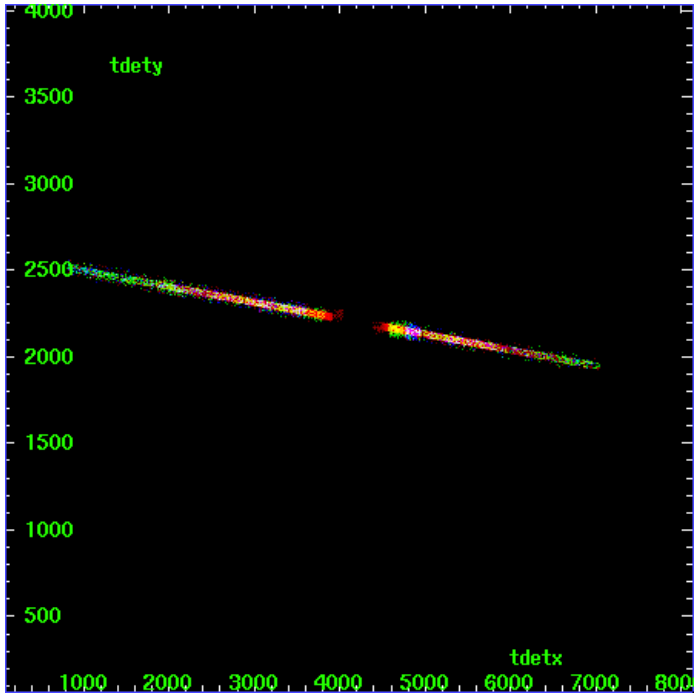
HEG Zero Order



HEG Order Sort ALL

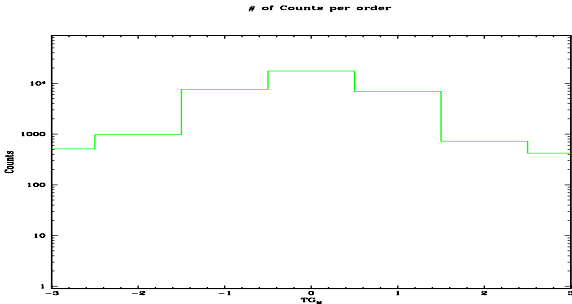


Spot Image HEG

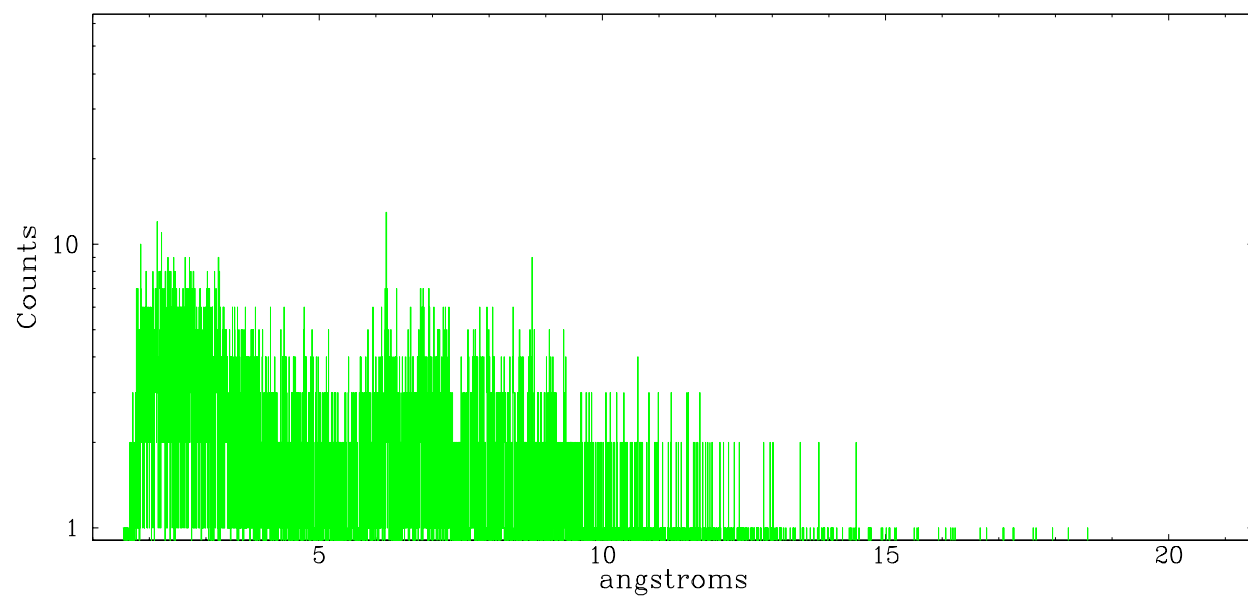


Full Detector HEG

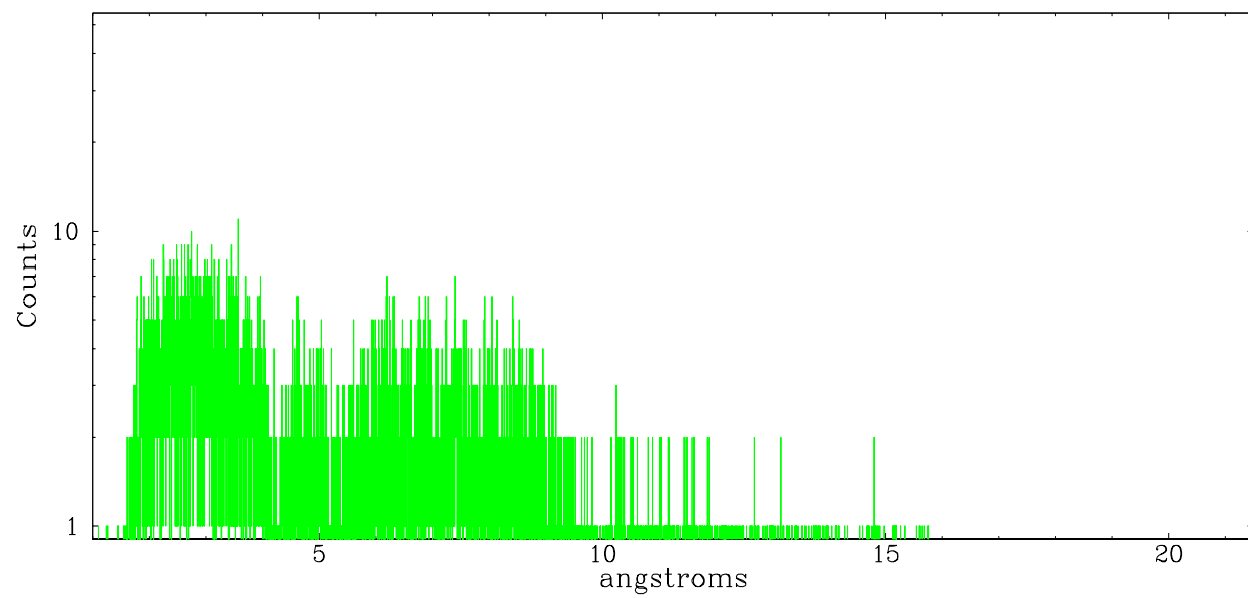
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	513	971	7595	17403	6919	723	419



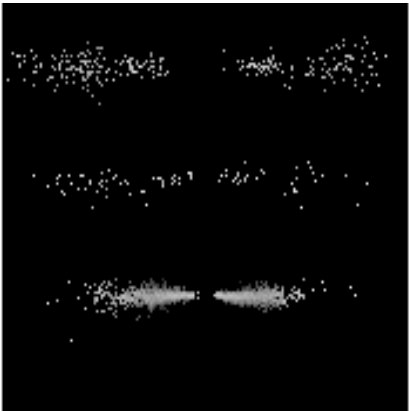
heg order -1



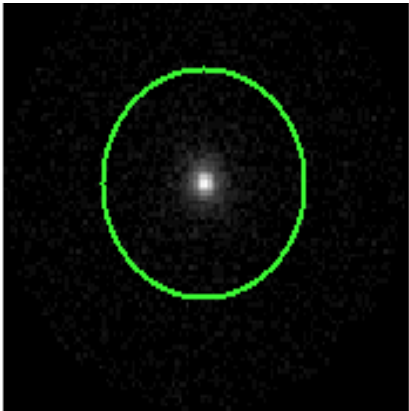
heg order +1



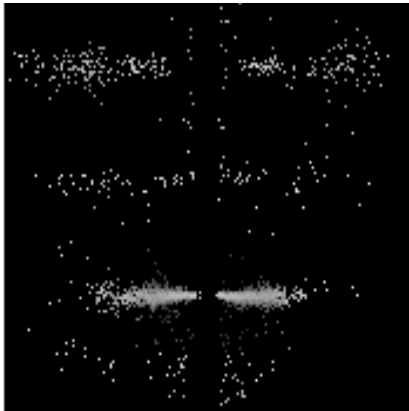
3.2 MEG Arm



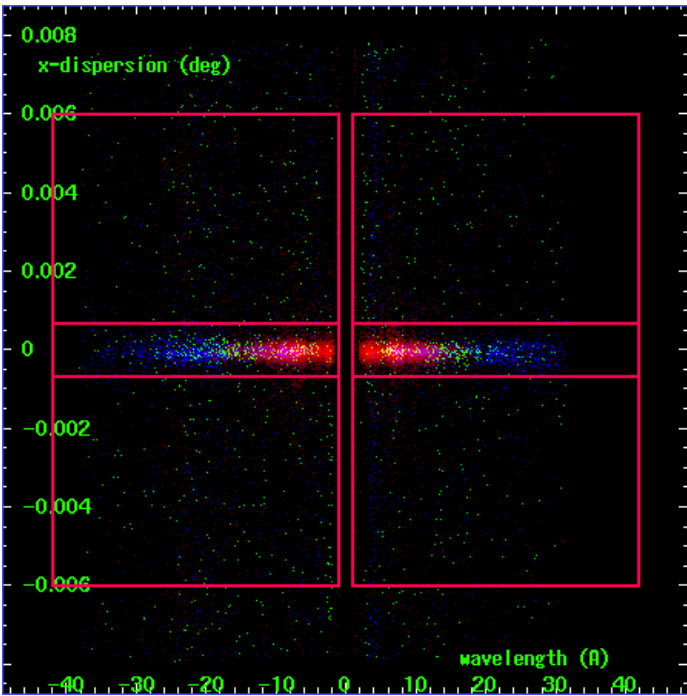
MEG Order Sort 123



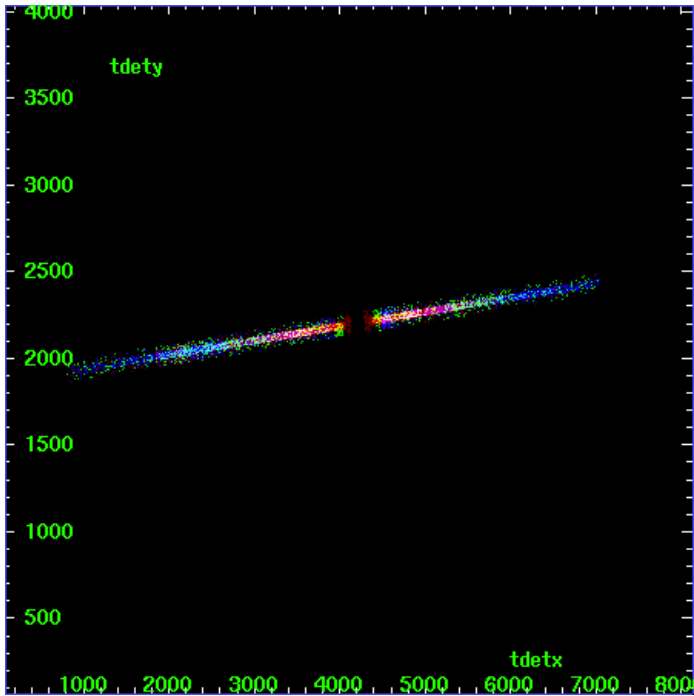
MEG Zero Order



MEG Order Sort ALL

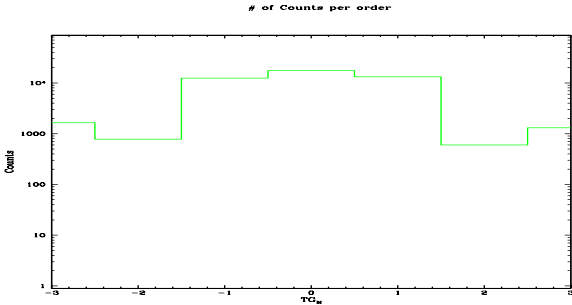


Spot Image MEG

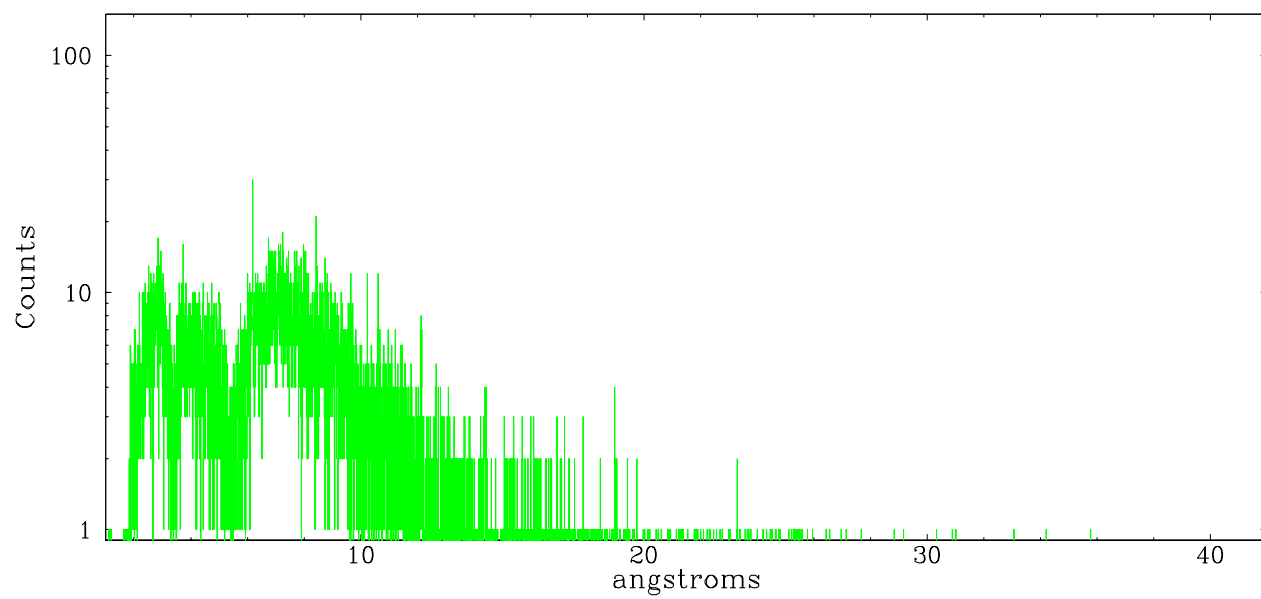


Full Detector MEG

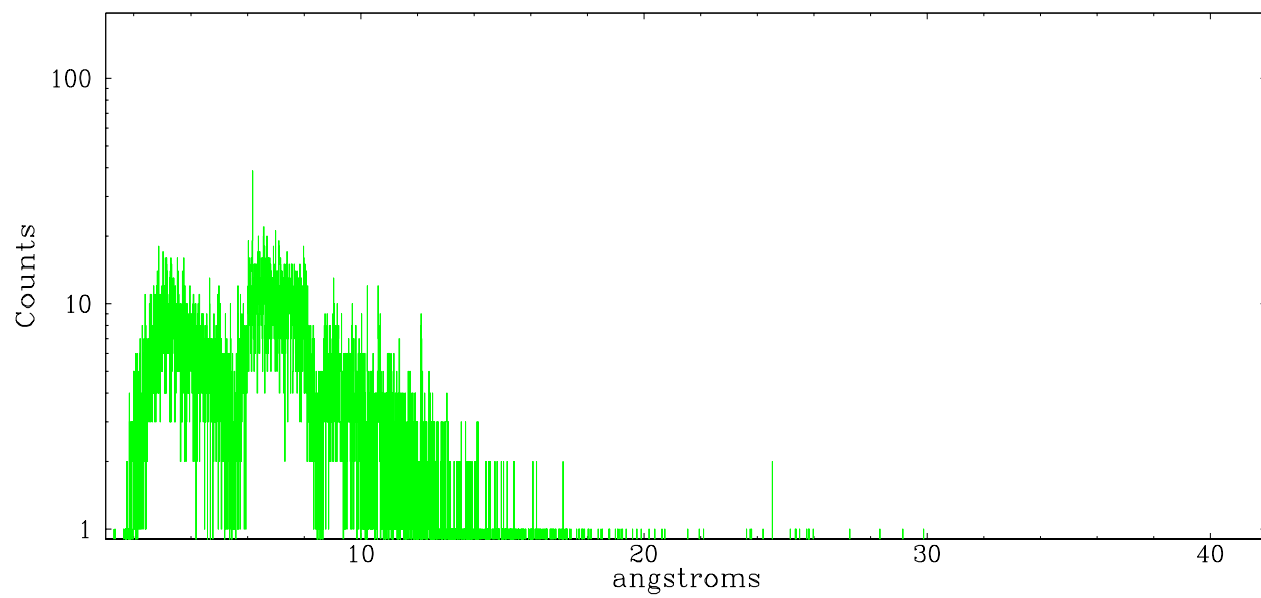
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	1643	779	12472	17403	13162	601	1312



meg order -1



meg order +1



A Summary

A.1 Status

V&V Scientist	David Huenemoerder
V&V Date (YYYY-MM-DD)	2006.12.20
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	75.718

A.2 Comments

Phase constraint met: observed range 0.94 - 0.04