

V&V Reference Report

L2 ASCDS Version : 7.6.7.2

Observation 5330 - L2 Version 001
Chandra X-Ray Center

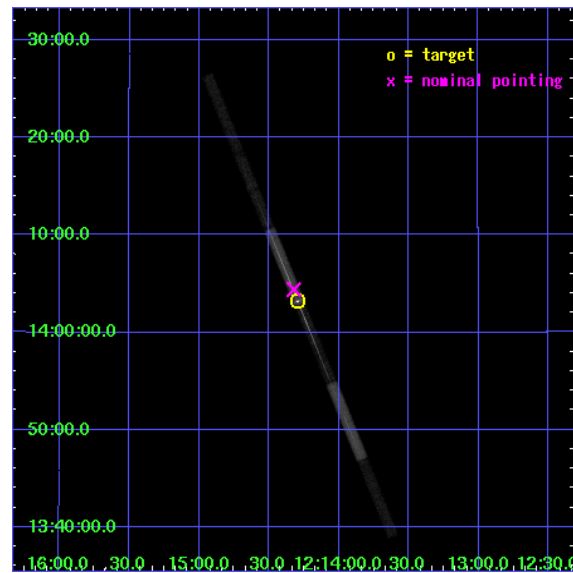
L2 Processing Date : May 23 2006

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
3	Gratings	17
3.1	LETG Arm	17
A	Summary	19
A.1	Status	19
A.2	Comments	19

1 Front

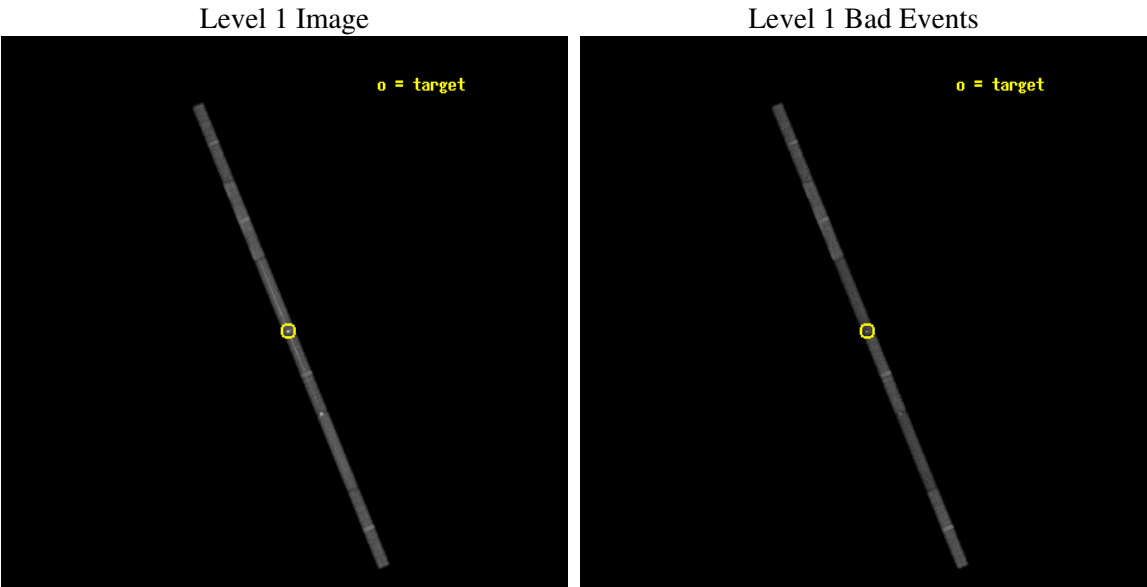
seq_num	700962
obs_id	5330
title	Revealing the High Velocity Outflow in PG 1211+143
observer	Dr James Reeves
object	PG 1211+143
dtcycle	0
cycle	P
ra_targ	183.57375
dec_targ	14.053611
ra_nom	183.58041765585
dec_nom	14.07364360737
roll_nom	247.71315019102
revision	2
ontime	45189.199230433
livetime	42686.547907404
ontime4	45189.199230433
ontime5	45189.199230433
ontime6	45189.199230433
ontime7	45189.199230433
ontime8	45189.199230433
ontime9	45189.199230433
l2events	110209



2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 4

Chip 5

Chip 6



Chip 7

Chip 8

Chip 9



2.1.3 Parameters

obi_num	0
ascdsver	7.6.7.2
caldsver	3.2.2
date	2006-05-23T20:59:17
revision	2

sched_exp_time	45000.000000
ontime	46873.936476558
ontime4	46873.936476558
ontime5	46874.67751655
ontime6	46874.67751655
ontime7	46873.936476558
ontime8	46874.67751655
ontime9	46874.67751655
l1events	425612

2.1.4 Events

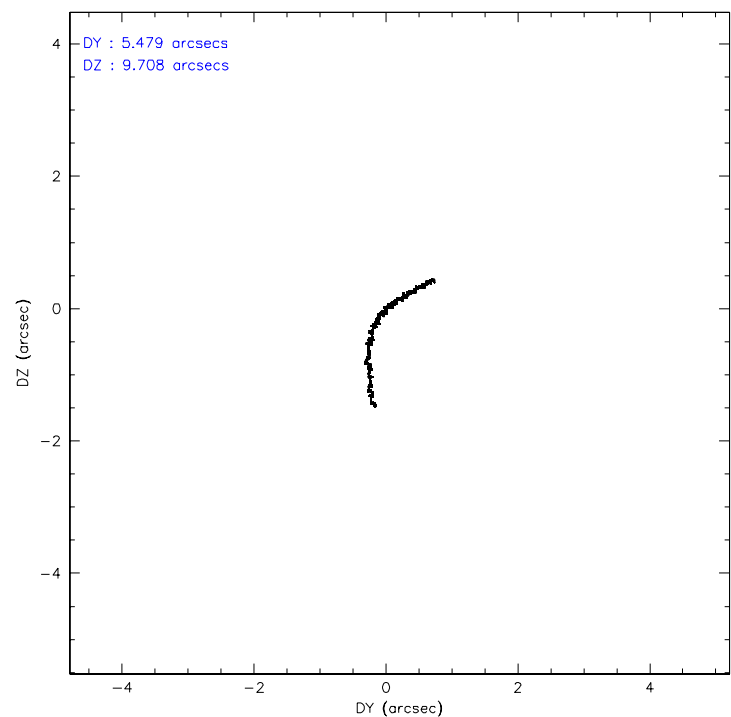
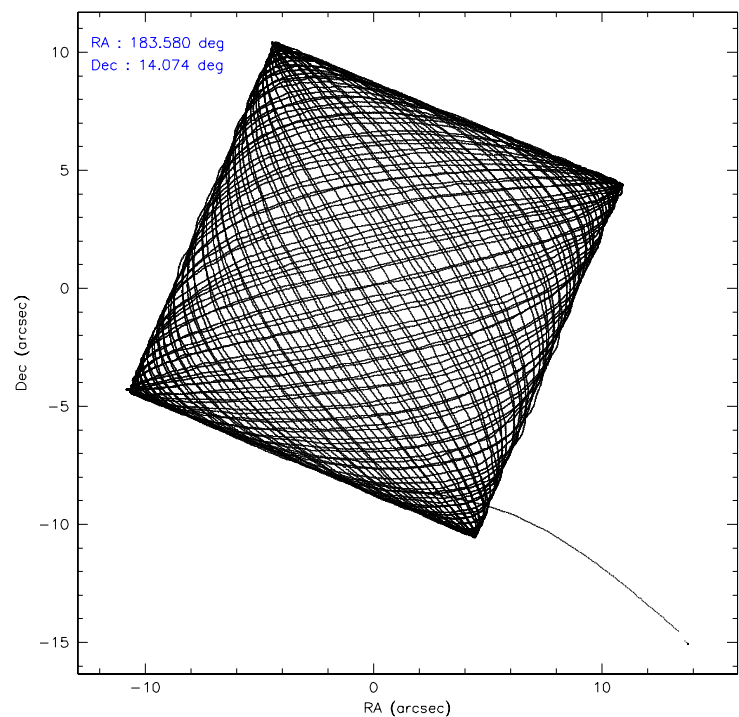
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	65240	74602	64347	89690	79019	52714
rejected events	58351	38877	51087	37063	64519	46475
rejected %	89%	52%	79%	41%	81%	88%

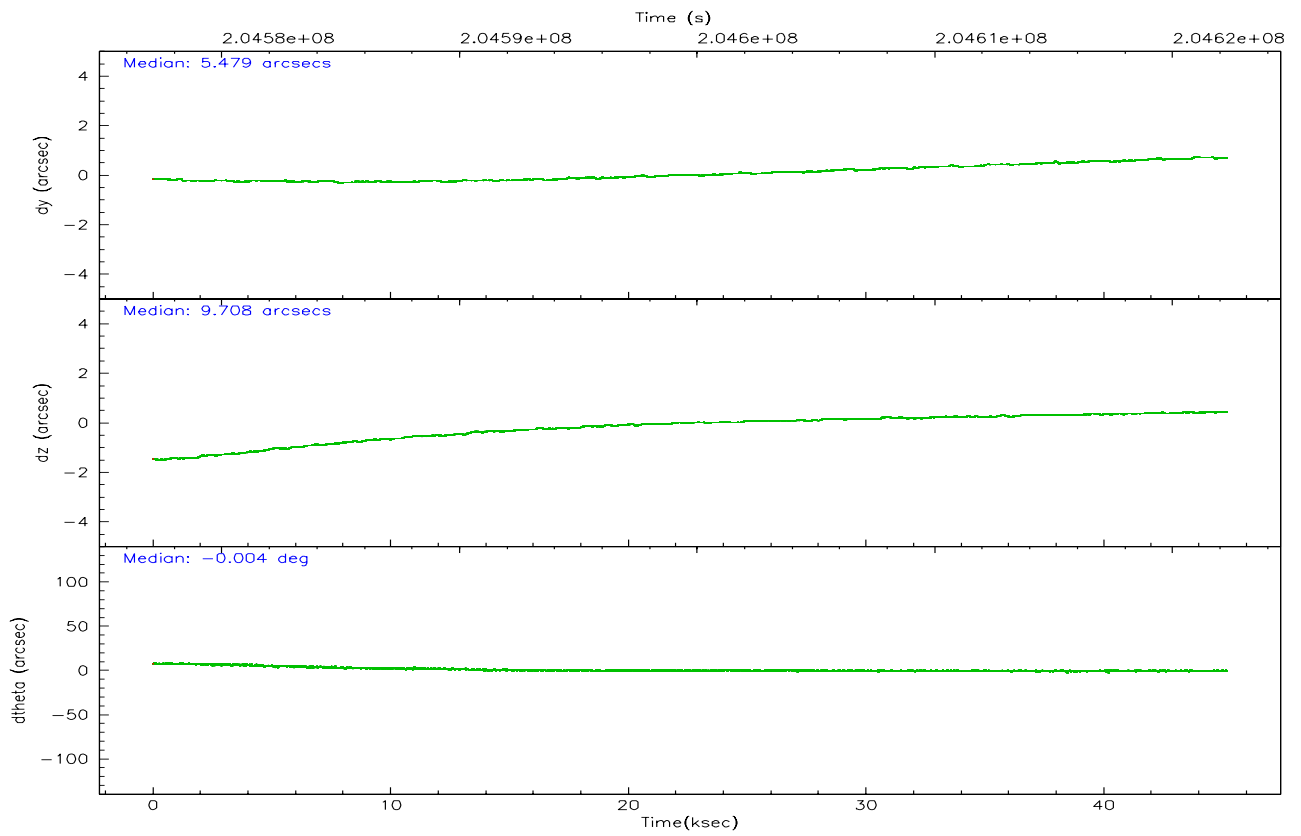
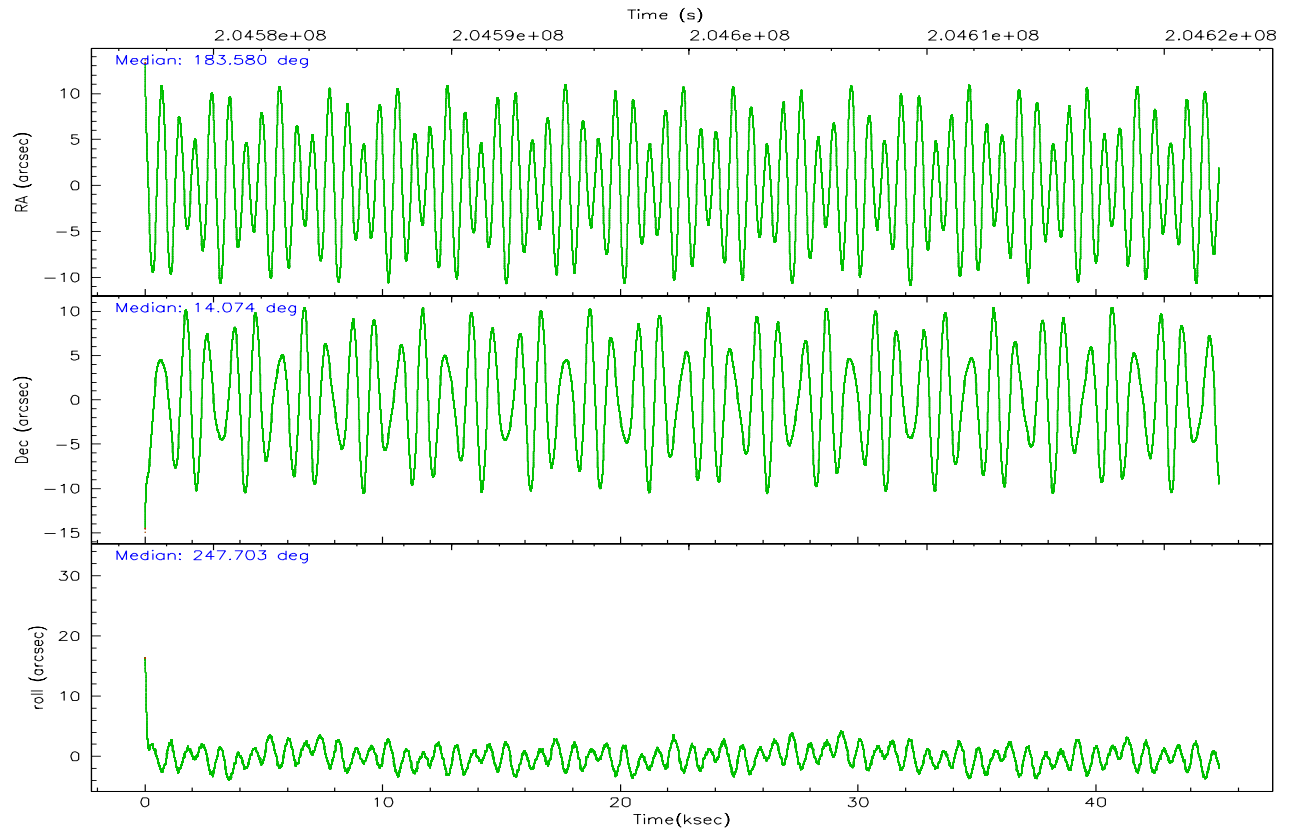
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	2549	7507	8051	10344	4217	2394
	3%	10%	12%	11%	5%	4%
grade 1 events	20	765	20	164	23	15
	0%	1%	0%	0%	0%	0%
grade 2 events	1379	9301	1746	13021	2736	1018
	2%	12%	2%	14%	3%	1%
grade 3 events	1117	2389	1256	5583	1851	1034
	1%	3%	1%	6%	2%	1%
grade 4 events	1015	2241	1180	5374	1726	982
	1%	3%	1%	5%	2%	1%
grade 5 events	1859	4420	1852	5263	2448	1881
	2%	5%	2%	5%	3%	3%
grade 6 events	1088	16526	1273	19291	4500	1021
	1%	22%	1%	21%	5%	1%
grade 7 events	56213	31453	48969	30650	61518	44369
	86%	42%	76%	34%	77%	84%

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	LETG	LETG	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	On-chip summing requested	N	N
Observation mode	POINTING	POINTING	Subarray requested	CUSTOM	1/8
Pointing RA	183.576275	183.5804176558498	Subarray start row	113	113
Pointing Dec	14.100567	14.07364360736997	Subarray row count	128	128
Pointing Roll	247.557528	247.7131501910216	Alternating exposures requested	N	N
SIM focus pos (mm)	-0.684267	-0.6828225247311905	Primary exposure time	0.000000	0.7
SIM defocus (mm)	0	0.001444936568705701			
SIM translation stage pos (mm)	-182.132523	-182.1370004450064			
SIM translation stage offset (mm)	-8	-7.995522138001405			
Observation start time	204577302.184000	204575427.70642			
Observation start date	2004-06-25T19:00:38	2004-06-25T18:30:27			
Observation end time	204622302.184000	204623974.27108			
Observation end date	2004-06-26T07:30:38	2004-06-26T07:59:34			
Read mode	TIMED	TIMED			

2.3 Aspect



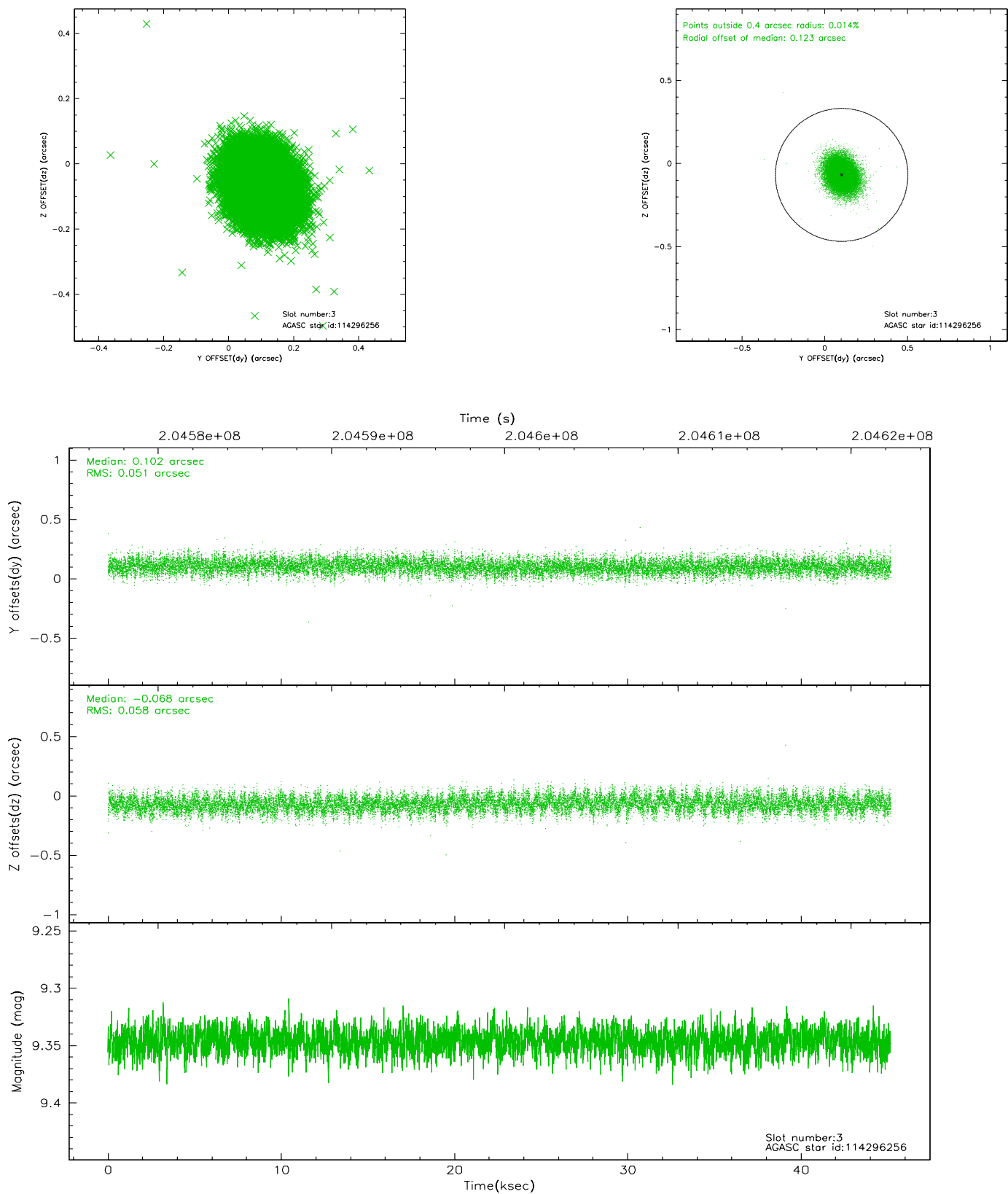


Slot Statistics

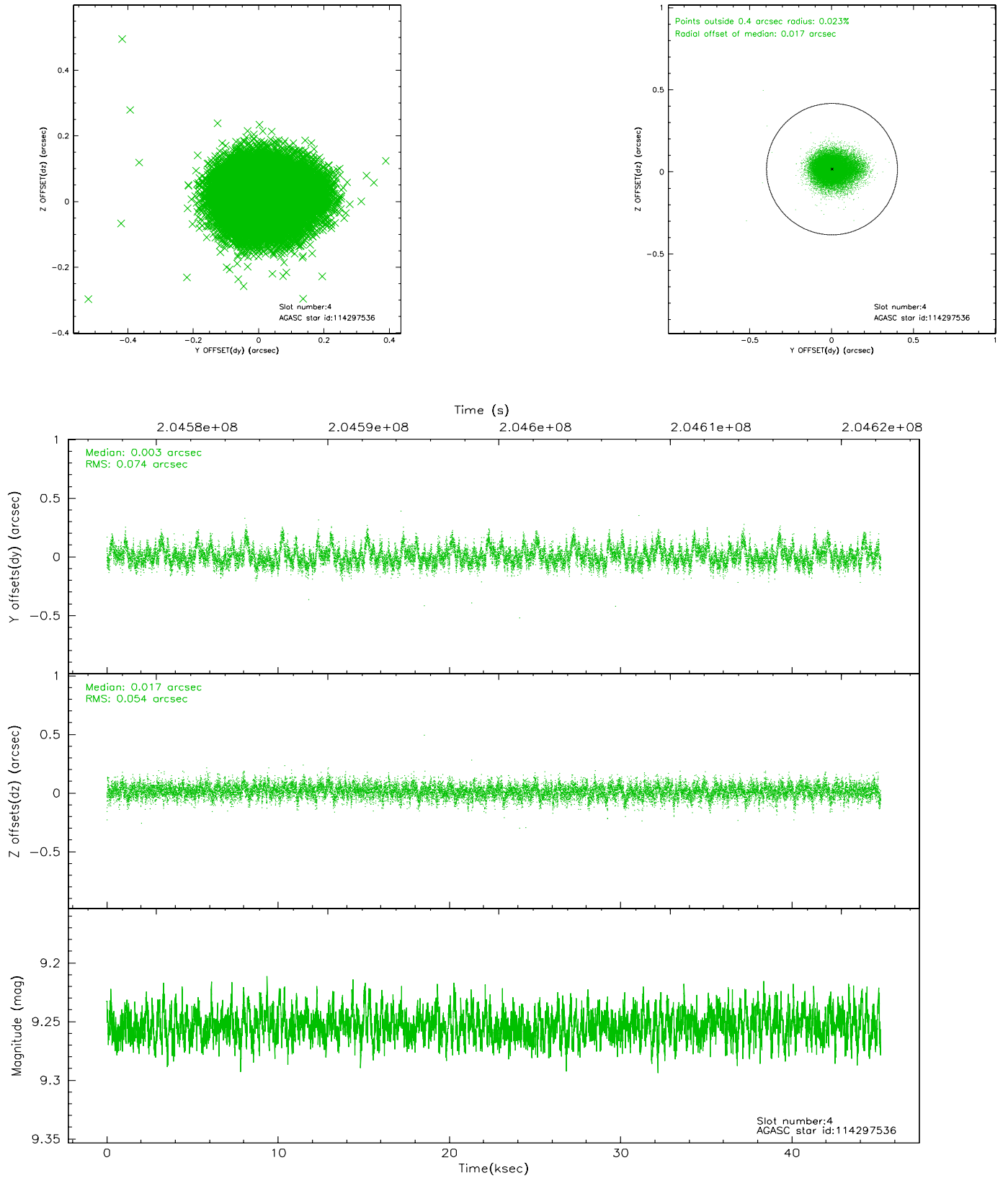
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-4	7.17	11023	0.077	0.045	0.027	0.040	0.000000	0.000000	2155.73	13.22
1	FID	ACIS-S-5	7.23	11023	-0.109	0.034	0.024	0.032	0.000000	0.000000	-1810.66	6.71
2	FID	ACIS-S-6	7.40	11022	0.003	-0.064	0.009	0.015	0.000000	0.000000	403.92	650.33
3	GUIDE	114296256	9.35	22027	0.102	-0.068	0.082	0.134	182.985406	14.017213	1063.55	-1793.37
4	GUIDE	114297536	9.25	22028	0.003	0.017	0.095	0.161	183.757120	14.264956	-787.81	357.40
5	GUIDE	114301168	9.22	22030	0.085	-0.114	0.091	0.147	182.996668	14.071189	868.78	-1830.83
6	GUIDE	114303096	9.30	22036	-0.027	-0.081	0.094	0.148	183.214020	14.515722	-899.67	-1737.89
7	GUIDE	115218912	8.29	22040	-0.170	0.245	0.084	0.131	184.400783	14.442830	-2240.93	2184.36

2.4 Star Slots

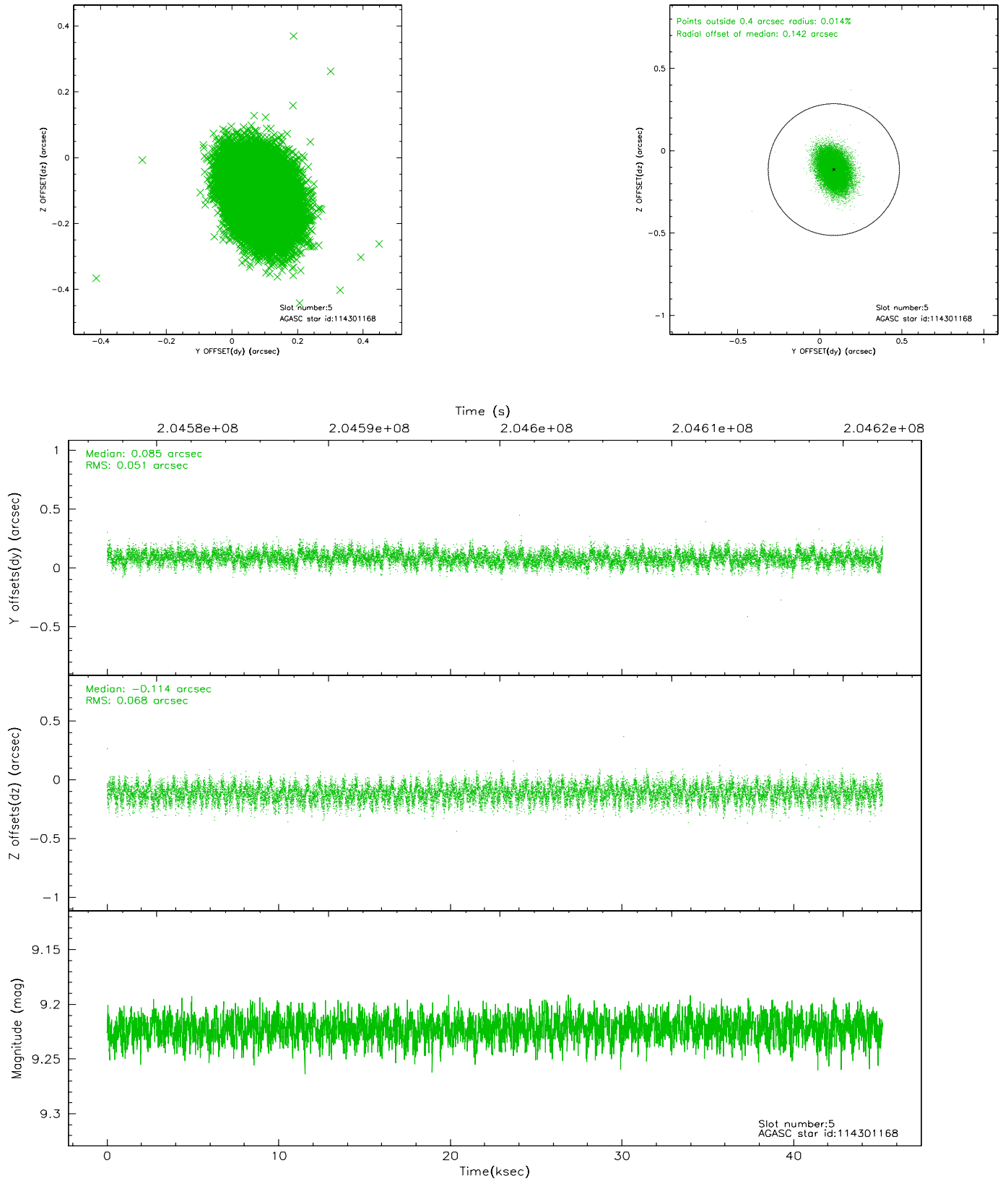
2.4.1 Slot 3



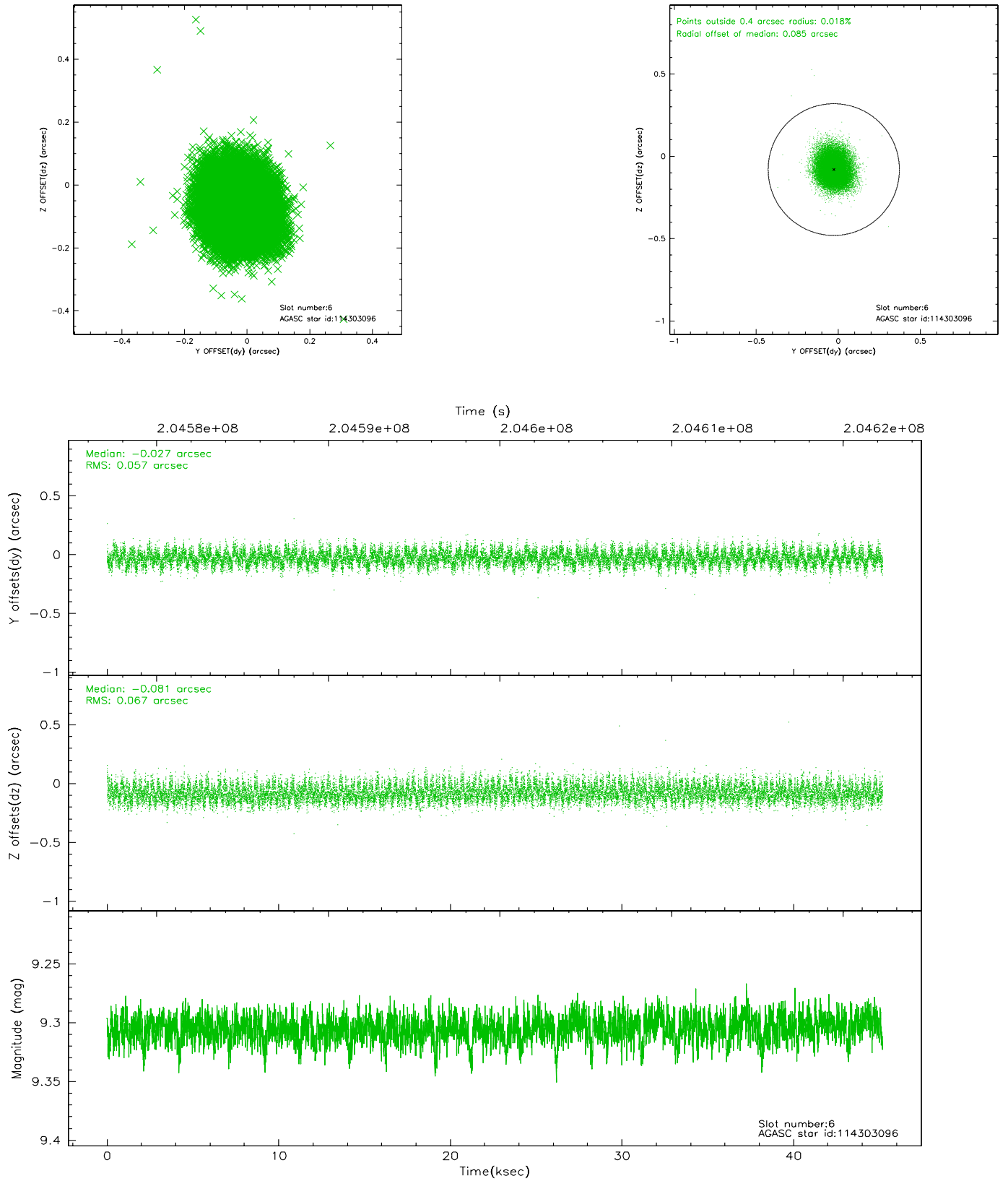
2.4.2 Slot 4



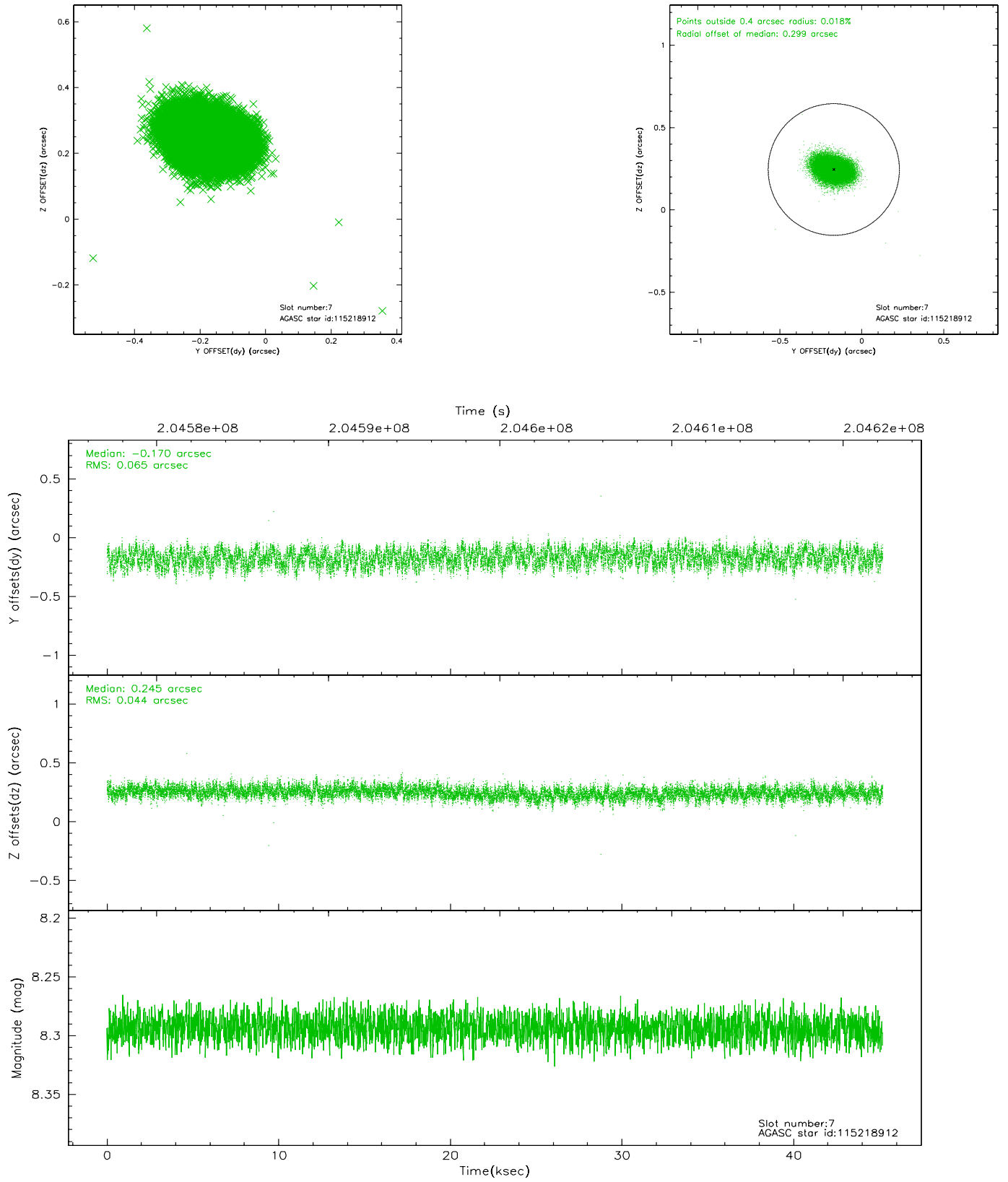
2.4.3 Slot 5



2.4.4 Slot 6

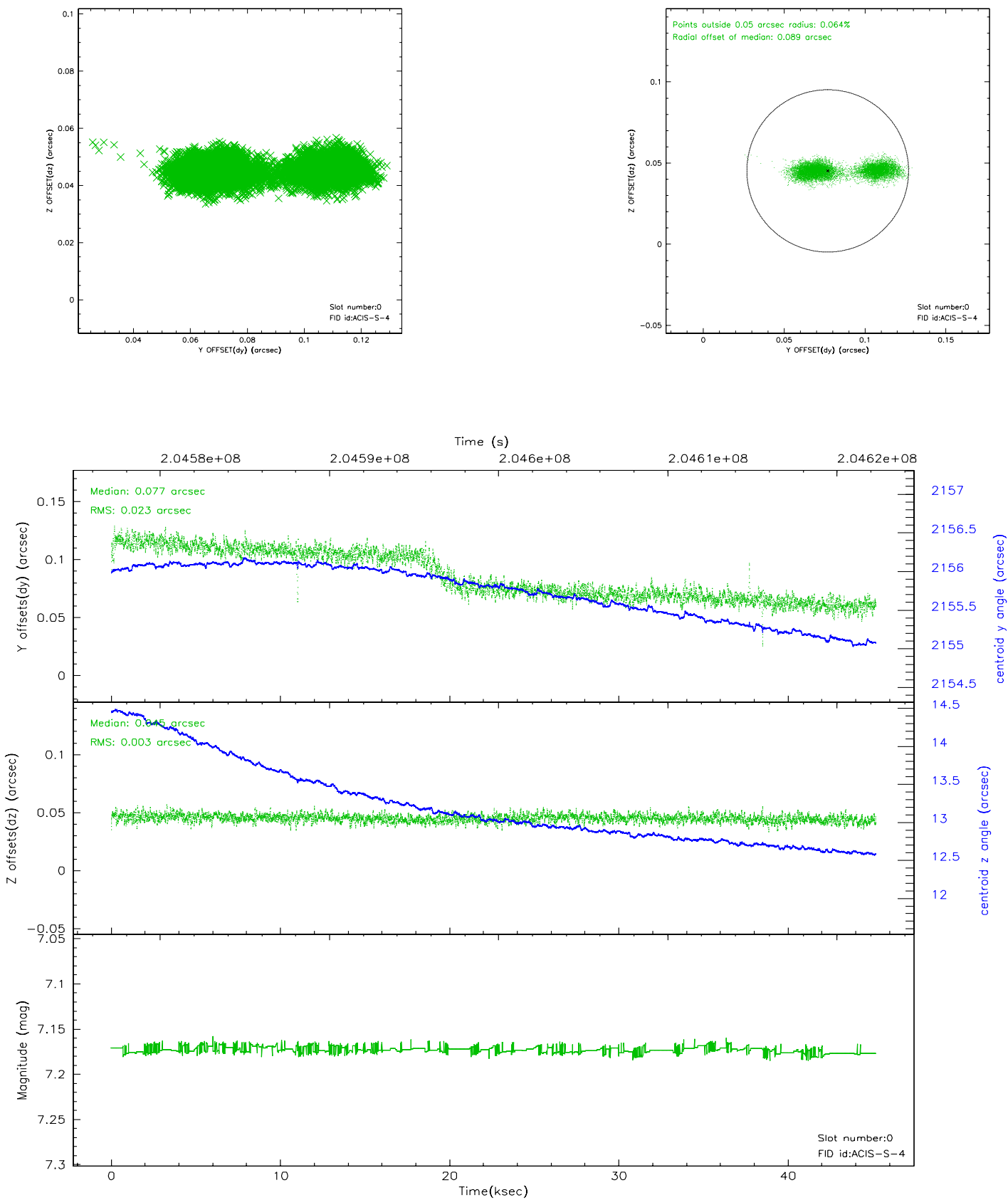


2.4.5 Slot 7

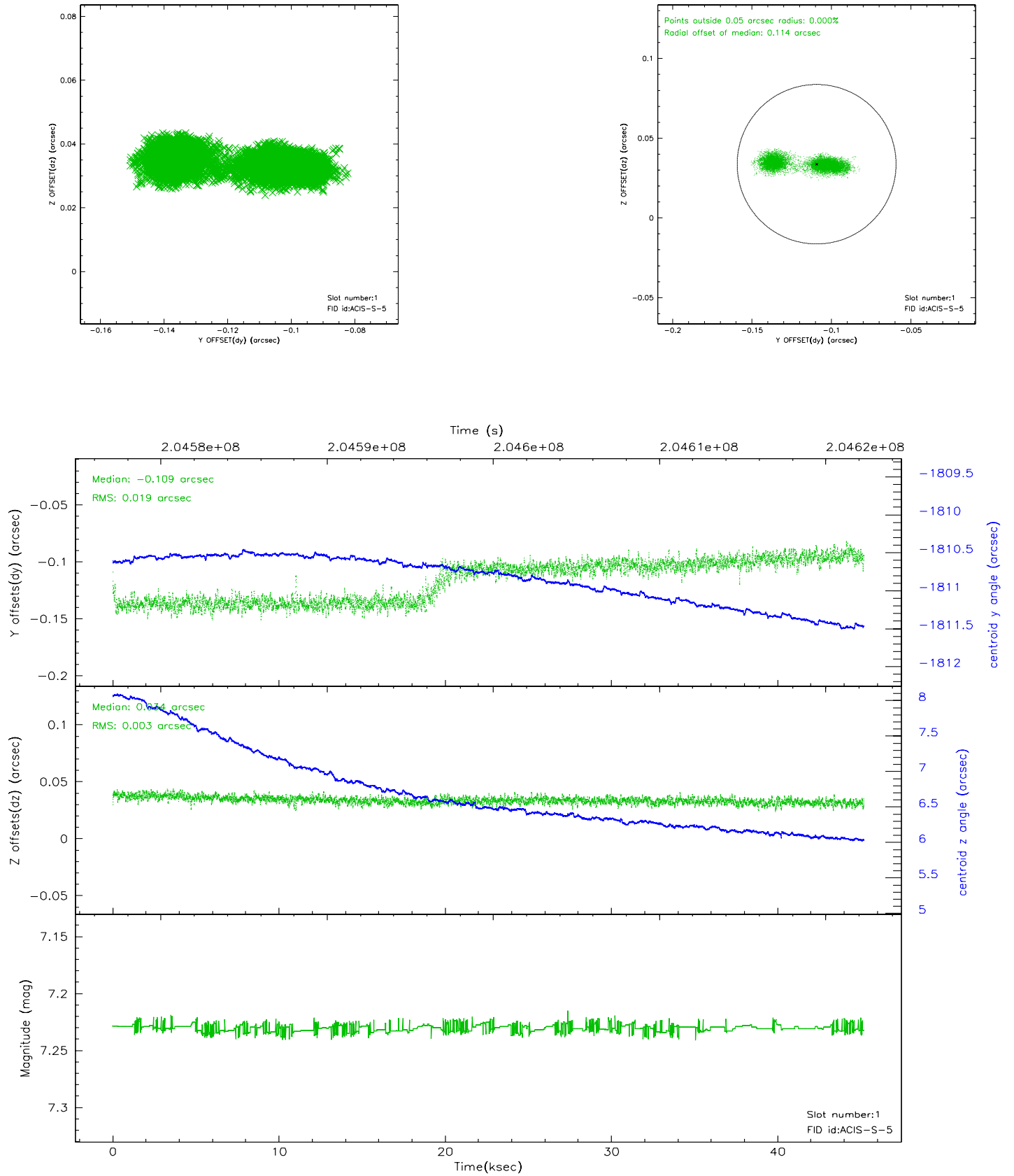


2.5 FID Slots

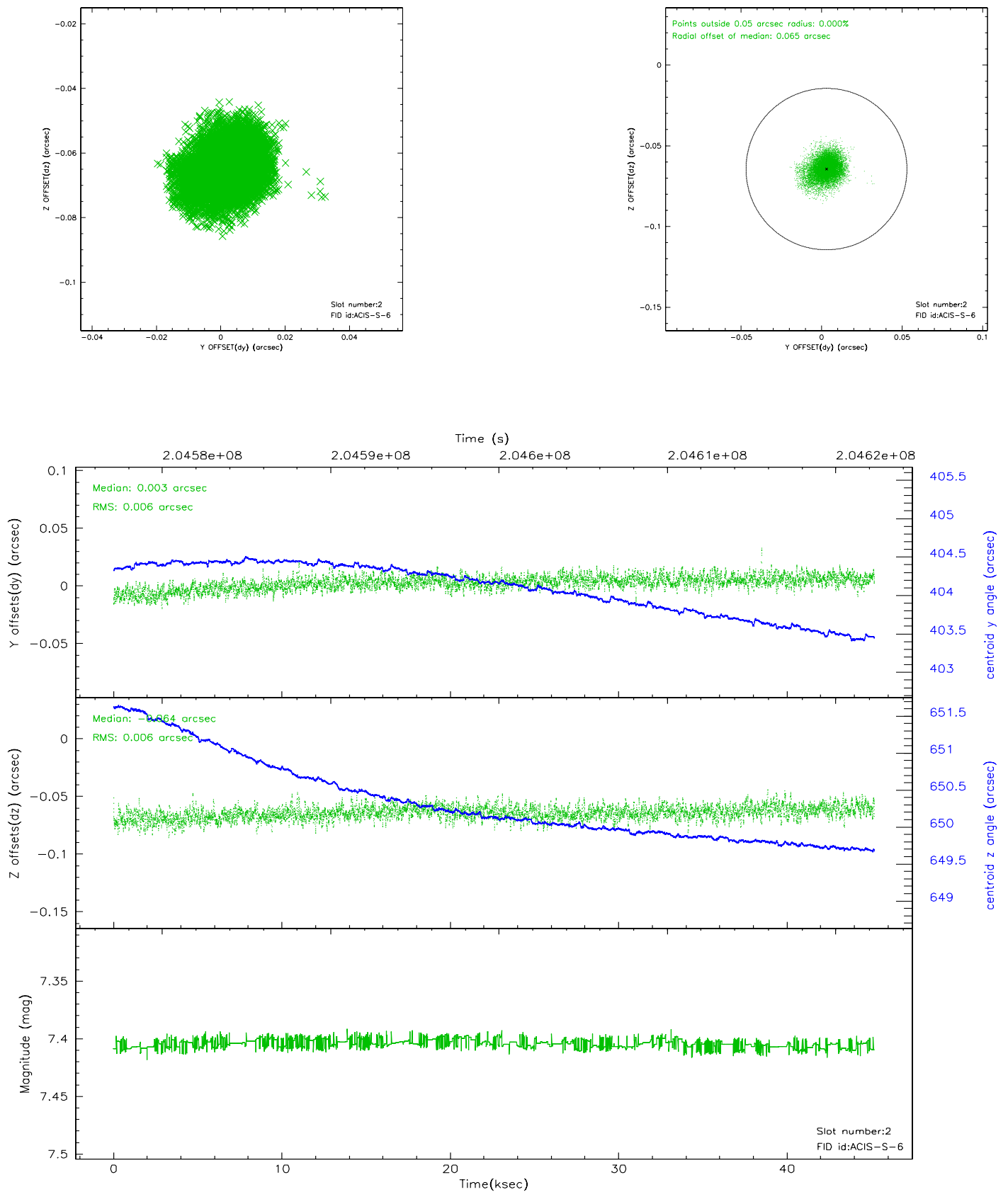
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2

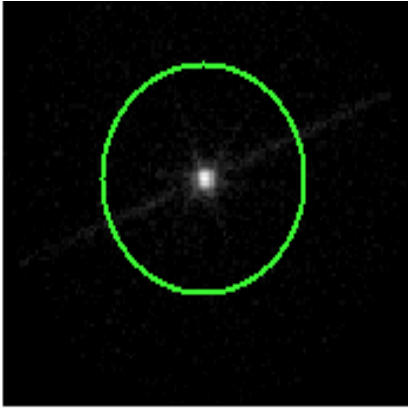


3 Gratings

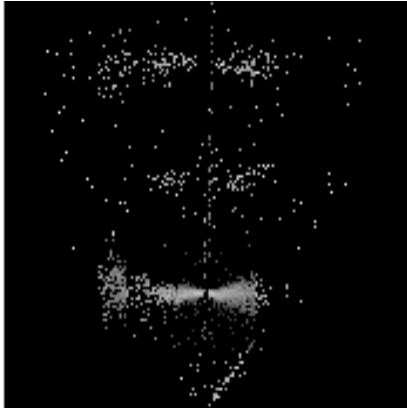
3.1 LETG Arm



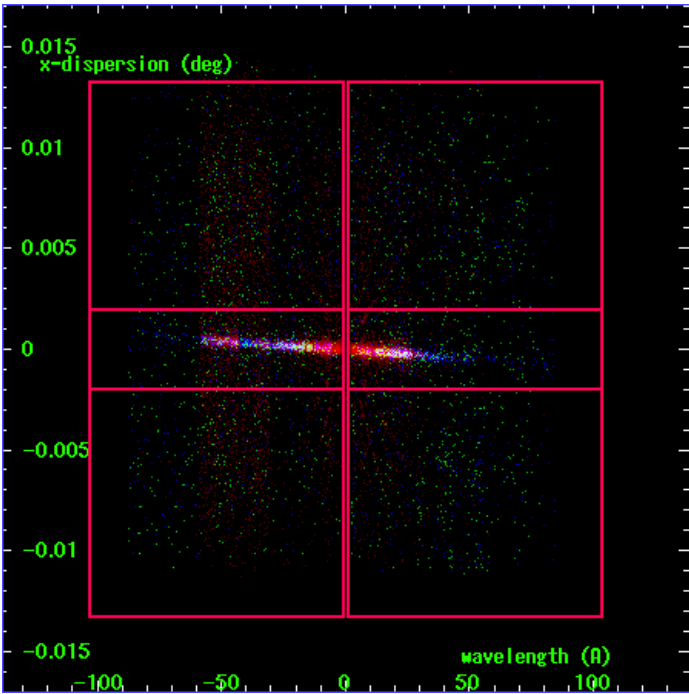
LETG Order Sort 123



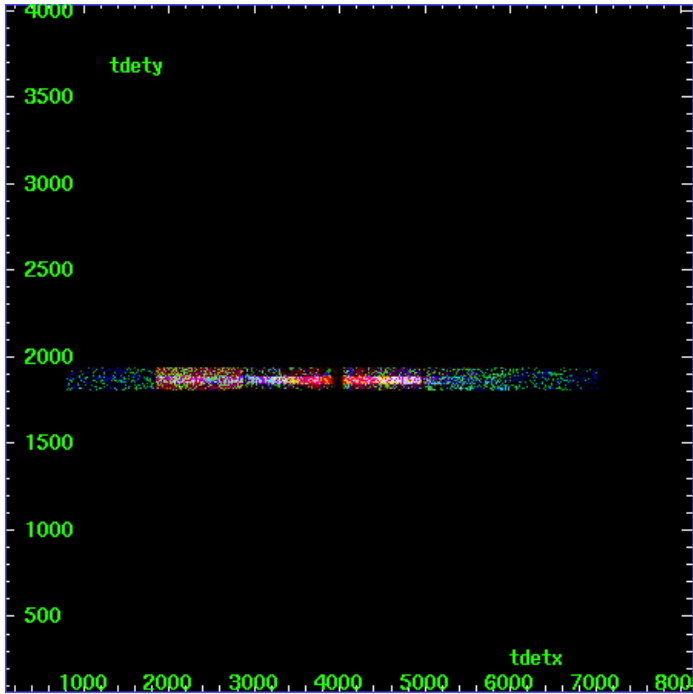
LETG Zero Order



LETG Order Sort ALL

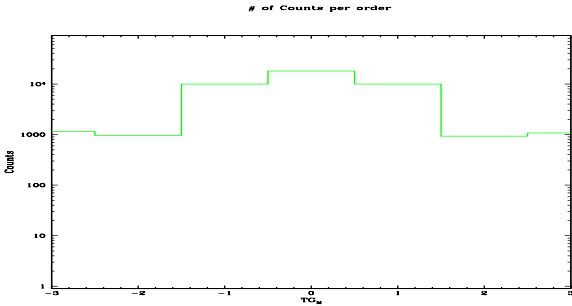


Spot Image LETG

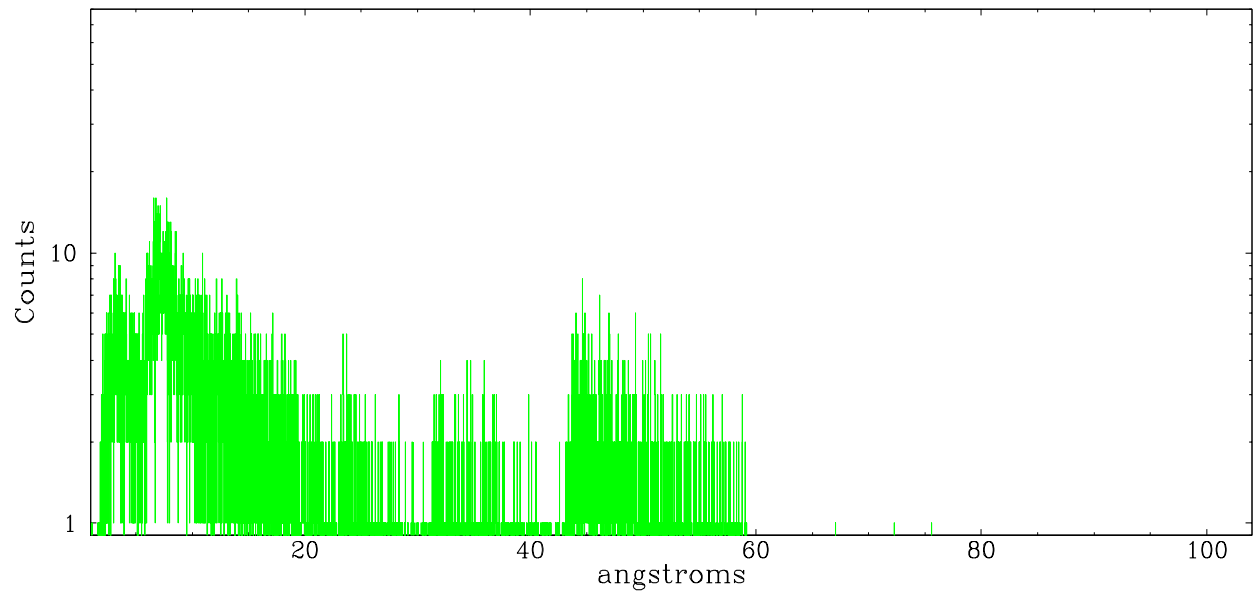


Full Detector LETG

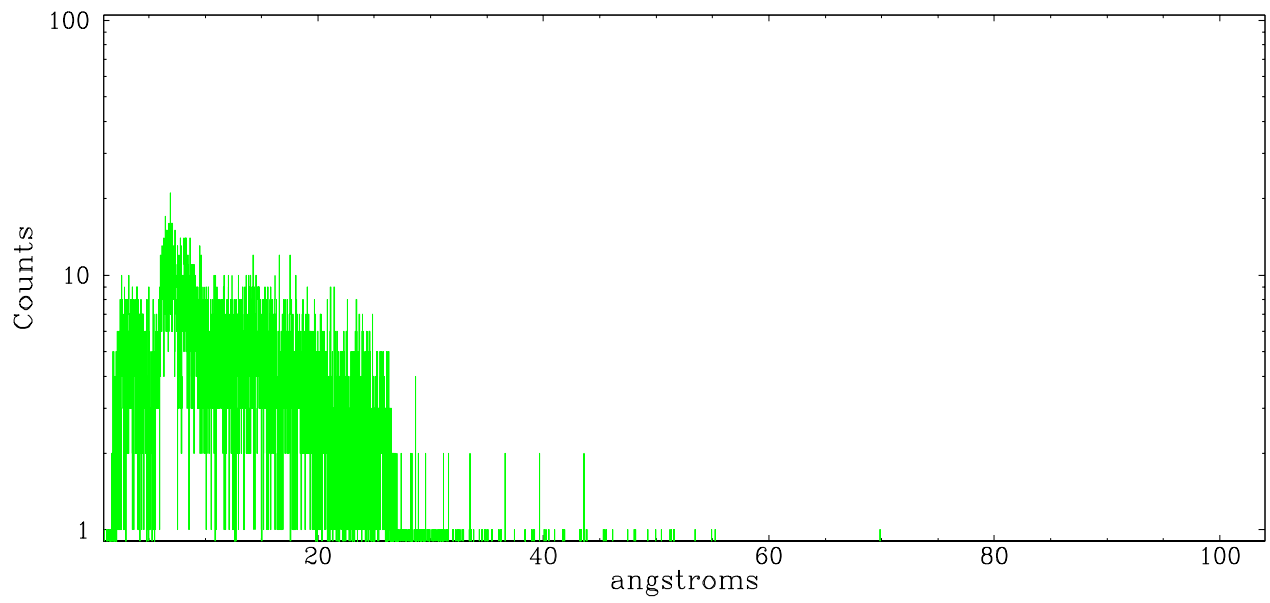
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	1156	961	9977	18105	10002	933	1072



leg order -1



leg order $+1$



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2006.05.24
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	45.189

A.2 Comments