

V&V Reference Report

L2 ASCDS Version : 7.6.10

Observation 598 - L2 Version _e1
Chandra X-Ray Center

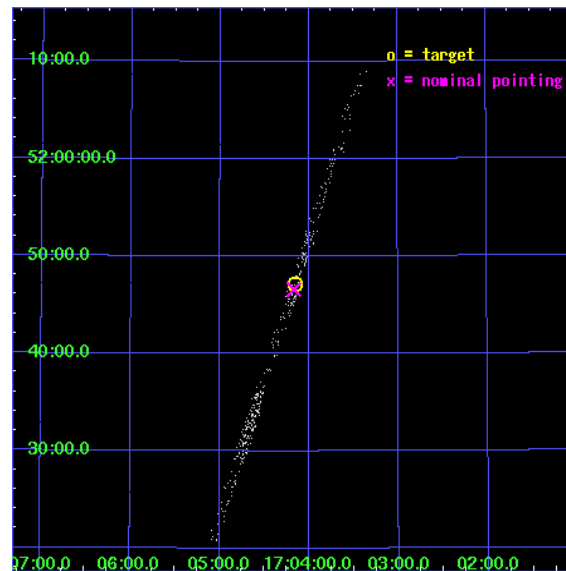
L2 Processing Date : Jun 9 2007

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1 Front

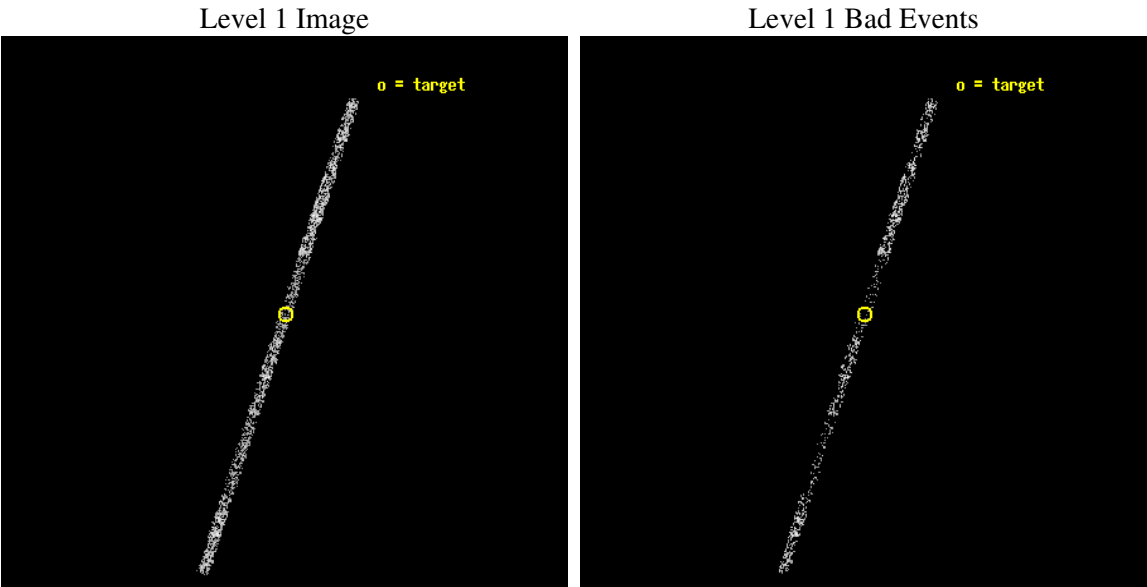
seq_num	500084
obs_id	598
title	X-RAY POSITIONS AND AFTERGLOWS OF GAMMA-RAY BURSTS
observer	Dr Luigi Piro
object	GRB000926
dtcycle	0
cycle	P
ra_targ	256.040417
dec_targ	51.786389
ra_nom	256.04247697029
dec_nom	51.776568921181
roll_nom	287.92399363184
revision	3
ontime	1395.6159579307
livetime	177.75829910468
ontime4	1395.6159579307
ontime5	1395.6159579307
ontime6	1395.6159579307
ontime7	1395.6159579307
ontime8	1395.6159579307
ontime9	1395.6159579307
l2events	388



2 OBI Primary

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	7.6.10
caldsver	3.4.0
date	2007-06-09T13:34:53
revision	3

sched_exp_time	12875.957000
ontime	1395.6159579307
ontime4	1395.6159579307
ontime5	1395.6159579307
ontime6	1395.6159579307
ontime7	1395.6159579307
ontime8	1395.6159579307
ontime9	1395.6159579307
l1events	5746

2.1.4 Events

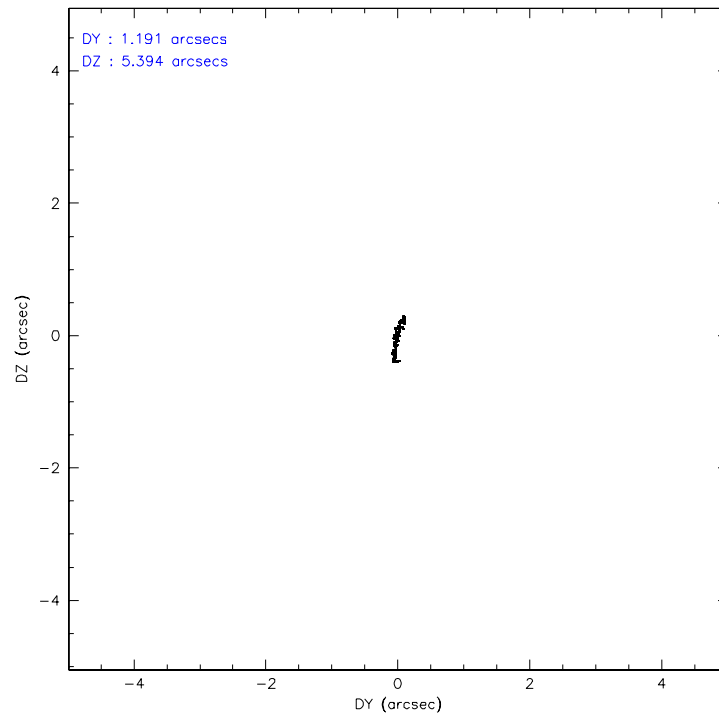
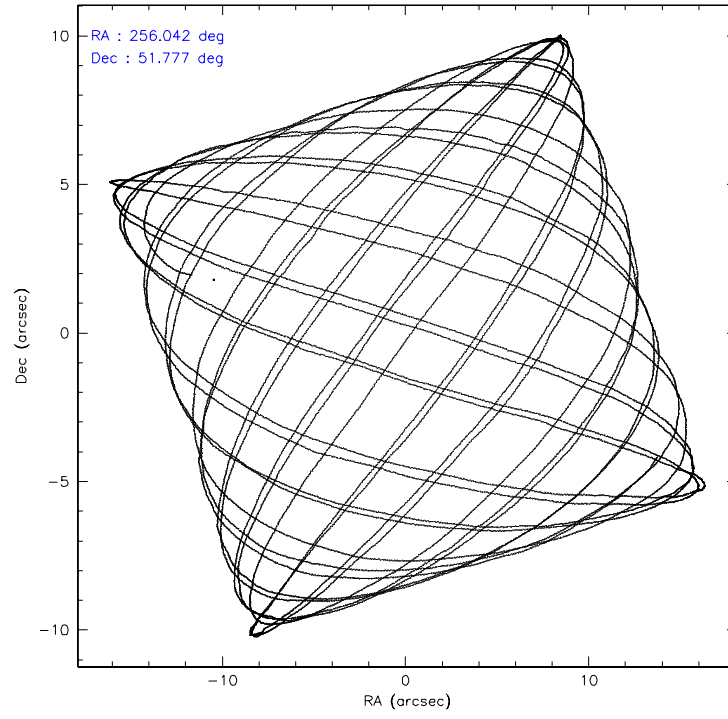
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	1209	492	984	465	1510	1086
rejected events	1137	331	926	347	1390	1026
rejected %	94%	67%	94%	74%	92%	94%

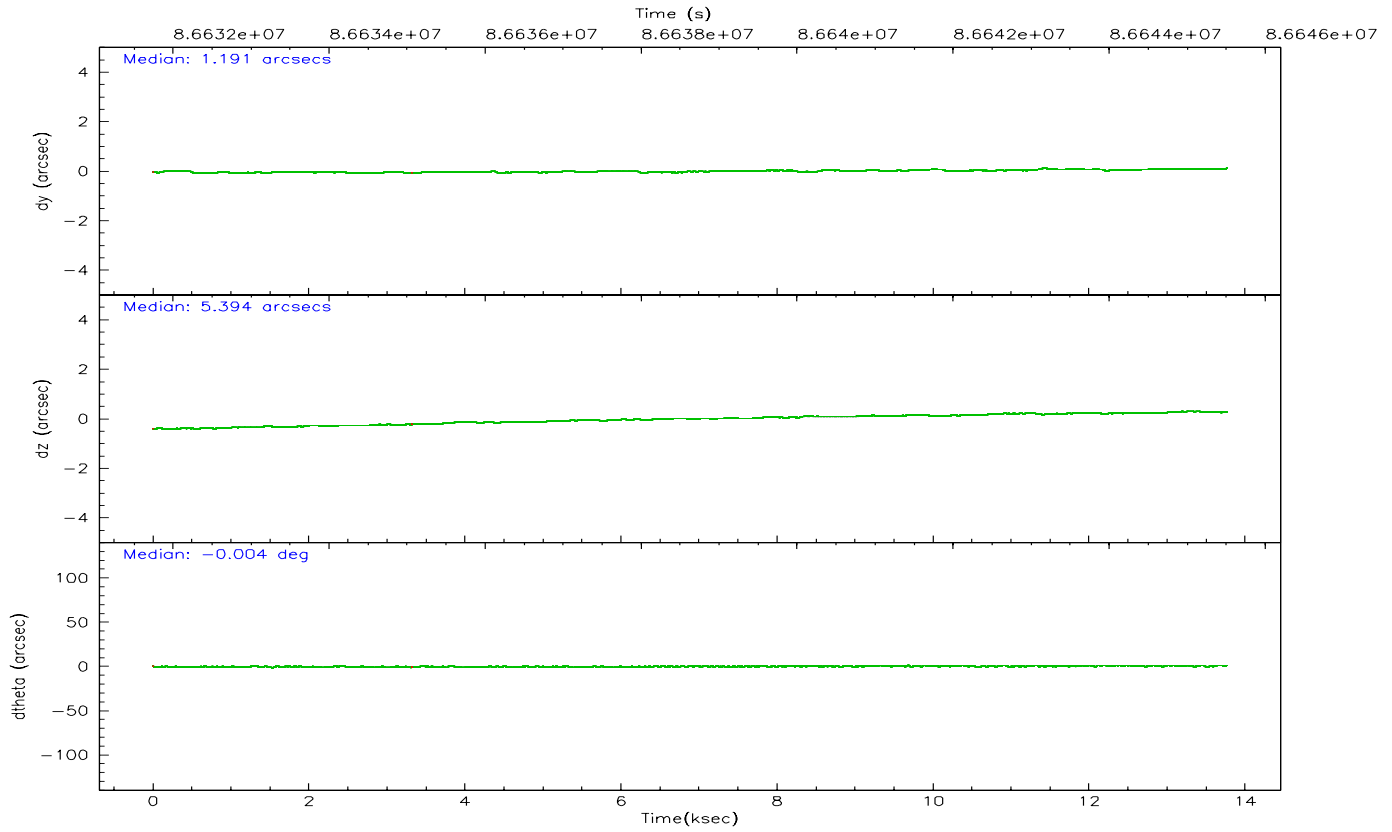
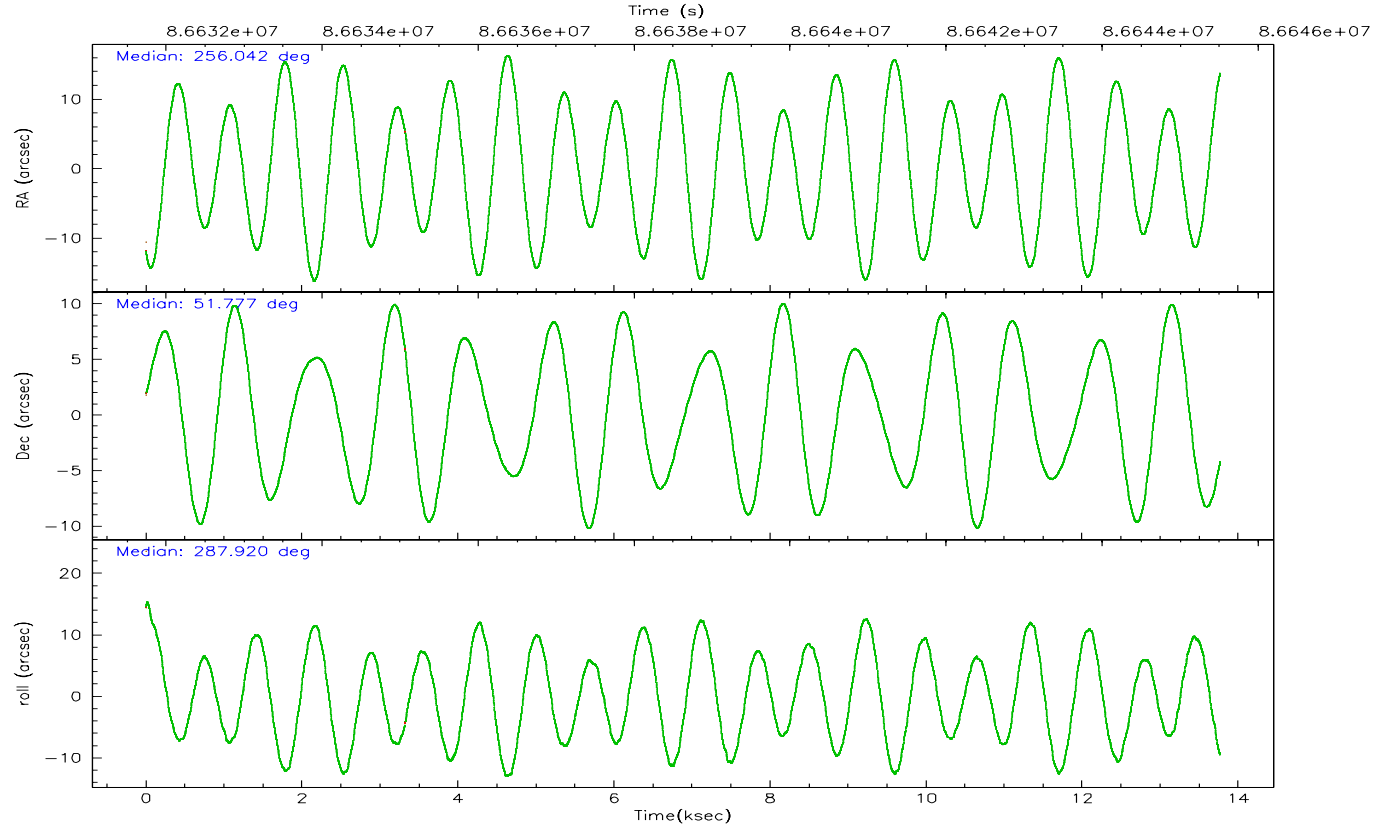
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	9	12	6	12	10	3
	0%	2%	0%	2%	0%	0%
grade 1 events	0	0	0	0	0	0
	0%	0%	0%	0%	0%	0%
grade 2 events	10	30	6	24	18	10
	0%	6%	0%	5%	1%	0%
grade 3 events	19	22	20	26	22	20
	1%	4%	2%	5%	1%	1%
grade 4 events	20	23	19	24	17	25
	1%	4%	1%	5%	1%	2%
grade 5 events	9	32	17	30	20	13
	0%	6%	1%	6%	1%	1%
grade 6 events	16	75	10	32	54	7
	1%	15%	1%	6%	3%	0%
grade 7 events	1126	298	906	317	1369	1008
	93%	60%	92%	68%	90%	92%

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	NONE	NONE	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	256.009474	256.0424769702912	Subarray requested	CUSTOM	1/8
Pointing Dec	51.794778	51.77656892118145	Subarray start row	115	115
Pointing Roll	287.793294	287.9239936318374	Subarray row count	128	128
SIM focus pos (mm)	-0.684267	-0.6828225247311905	Alternating exposures requested	Y	Y
SIM defocus (mm)	0	0.001444936568705701	Primary exposure time	0.100000	0.1
SIM translation stage pos (mm)	-182.132523	-182.1344861297048	Secondary exposure time	0.700000	0.7
SIM translation stage offset (mm)	-8	-7.998036453302973	Duty cycle	9	9
Observation start time	86632888.184000	86631450.60726599			
Observation start date	2000-09-29T16:40:24	2000-09-29T16:17:30			
Observation end time	86645764.184000	86647791.157882			
Observation end date	2000-09-29T20:15:00	2000-09-29T20:49:51			
Read mode	TIMED	TIMED			

2.3 Aspect



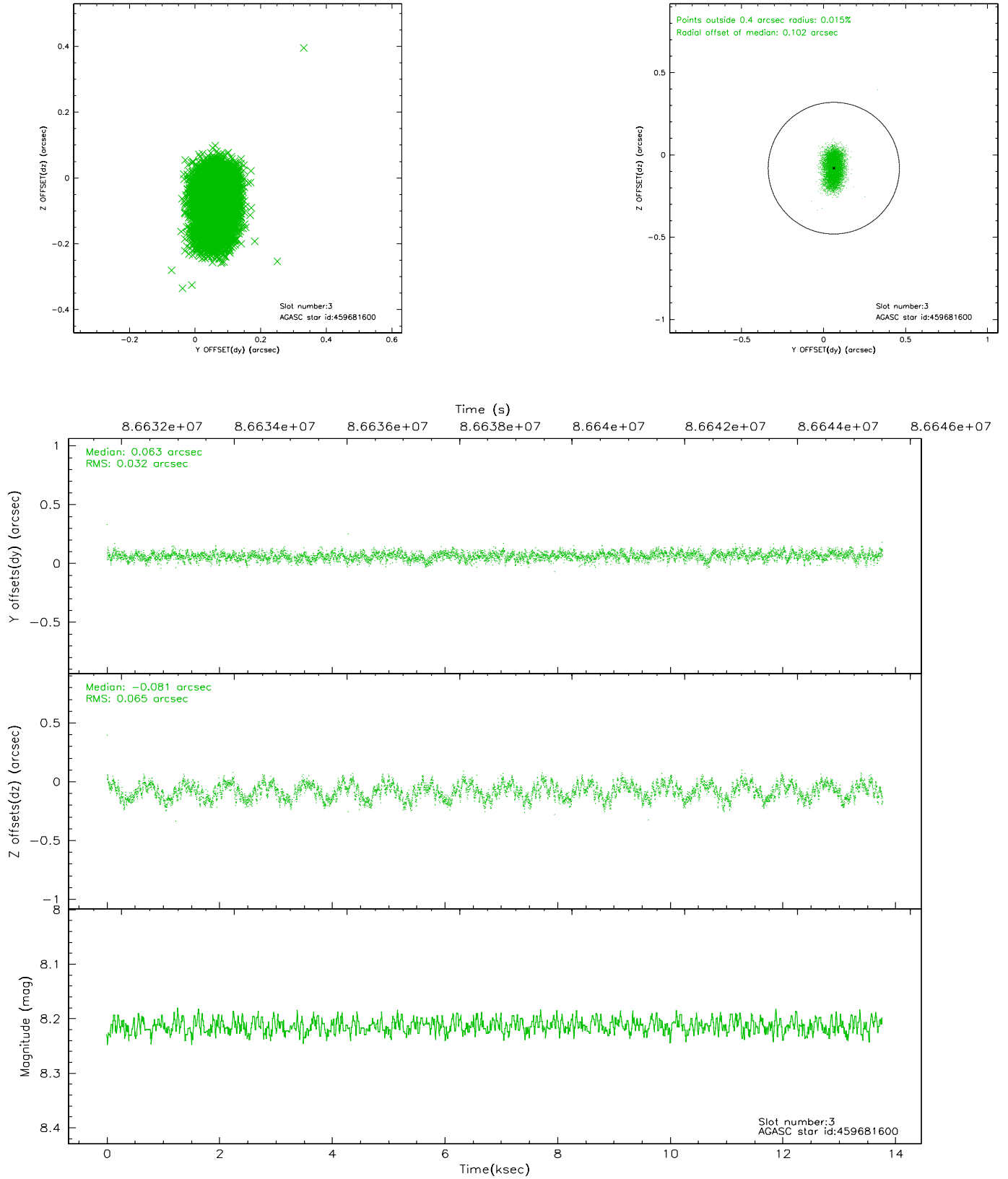


Slot Statistics

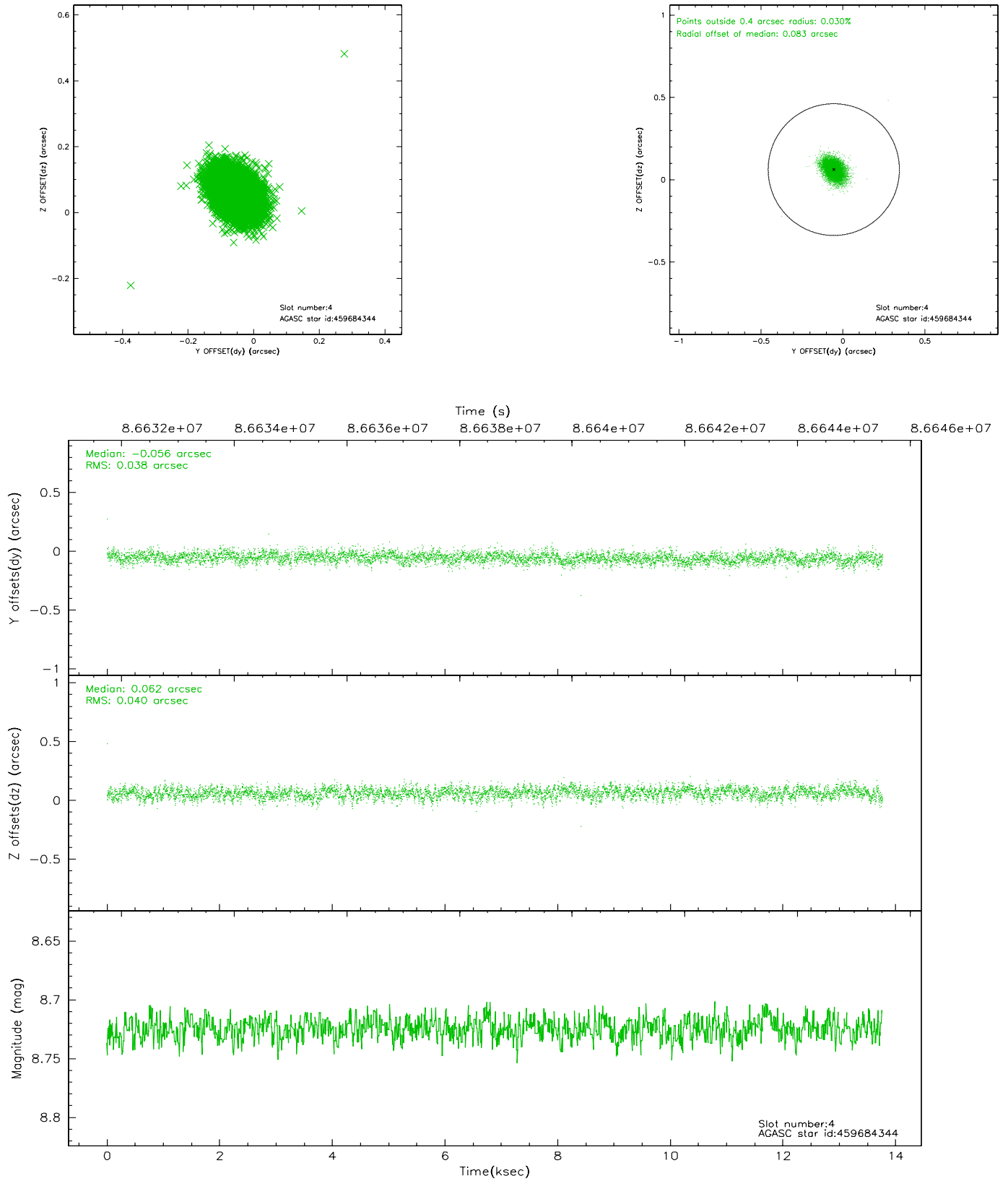
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.09	3351	-0.059	-0.050	0.012	0.017	0.000000	0.000000	-753.28	-1891.30
1	FID	ACIS-S-4	7.19	3351	0.033	0.041	0.022	0.028	0.000000	0.000000	2159.94	16.84
2	FID	ACIS-S-5	7.22	3351	-0.005	0.016	0.014	0.020	0.000000	0.000000	-1805.61	10.90
3	GUIDE	459681600	8.21	6701	0.063	-0.081	0.078	0.124	255.534425	51.942325	-829.96	-839.89
4	GUIDE	459684344	8.72	6701	-0.056	0.062	0.057	0.096	255.938505	51.246844	1830.21	-754.27
5	GUIDE	459672144	8.96	6698	-0.120	-0.011	0.068	0.110	255.593658	51.982291	-925.71	-670.25
6	GUIDE	459676416	9.30	6697	0.034	0.009	0.081	0.131	256.346375	52.353302	-1688.91	1320.86
7	GUIDE	459672016	9.39	6698	0.074	0.024	0.077	0.123	256.647891	51.557718	1244.12	1102.72

2.4 Star Slots

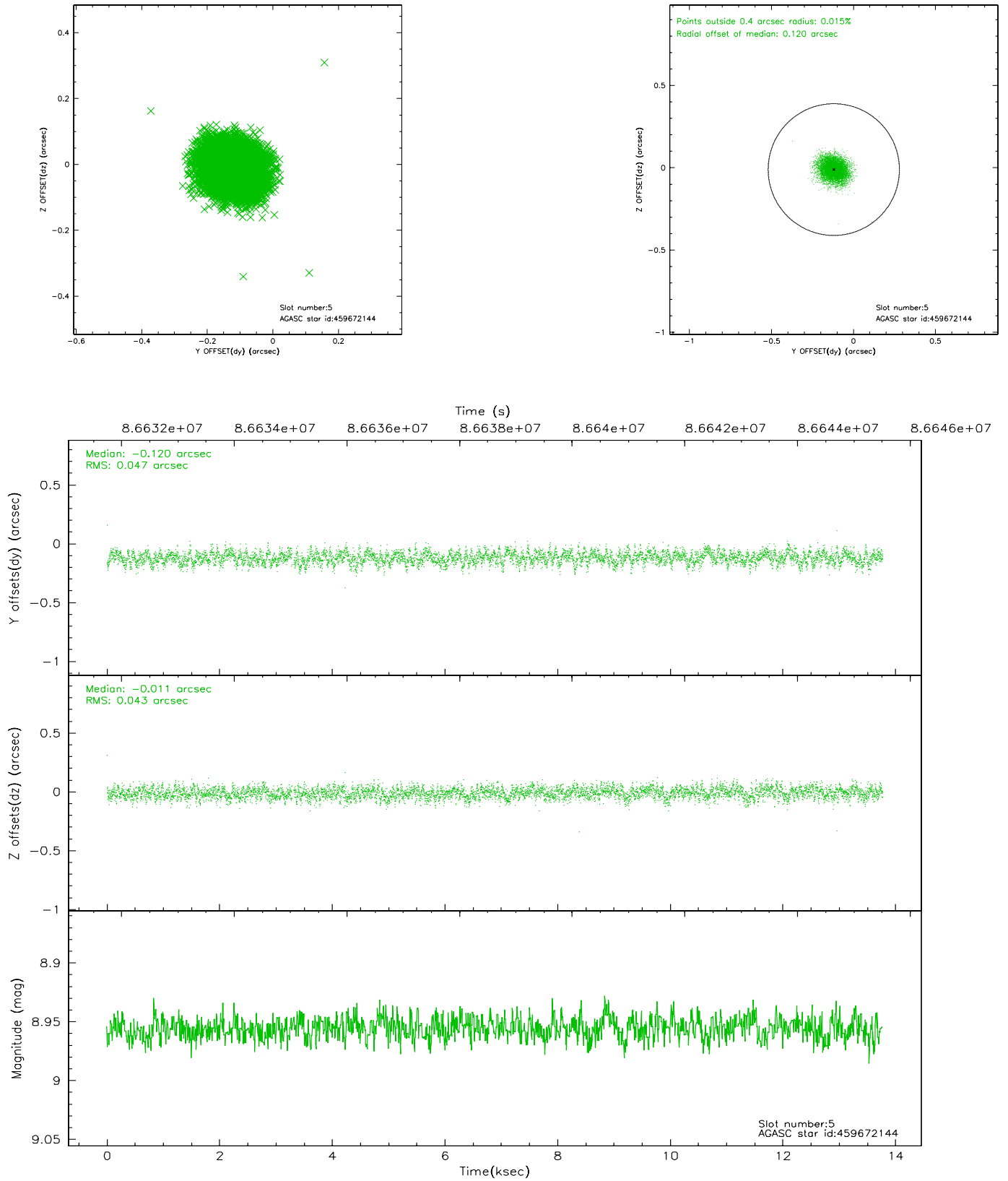
2.4.1 Slot 3



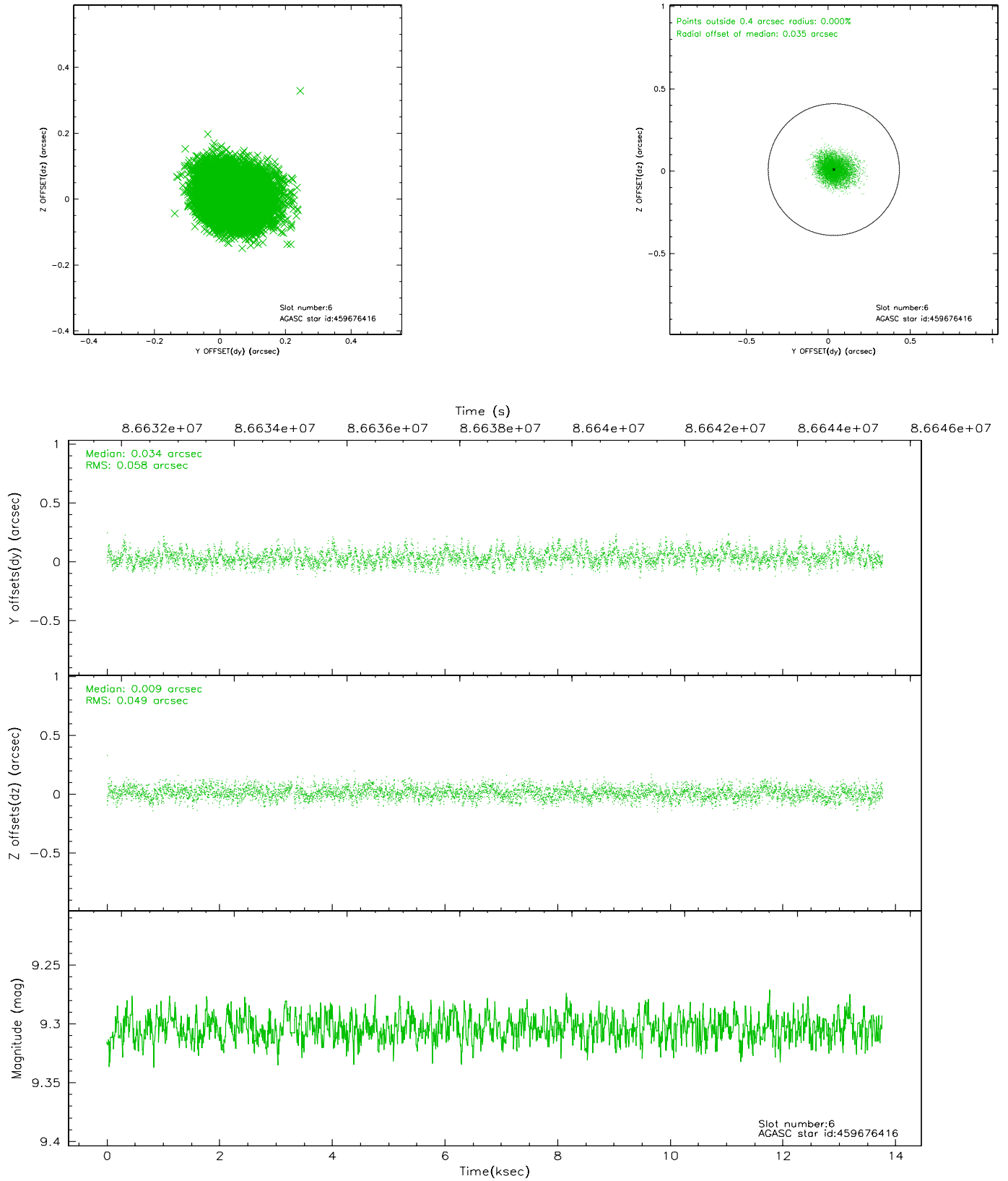
2.4.2 Slot 4



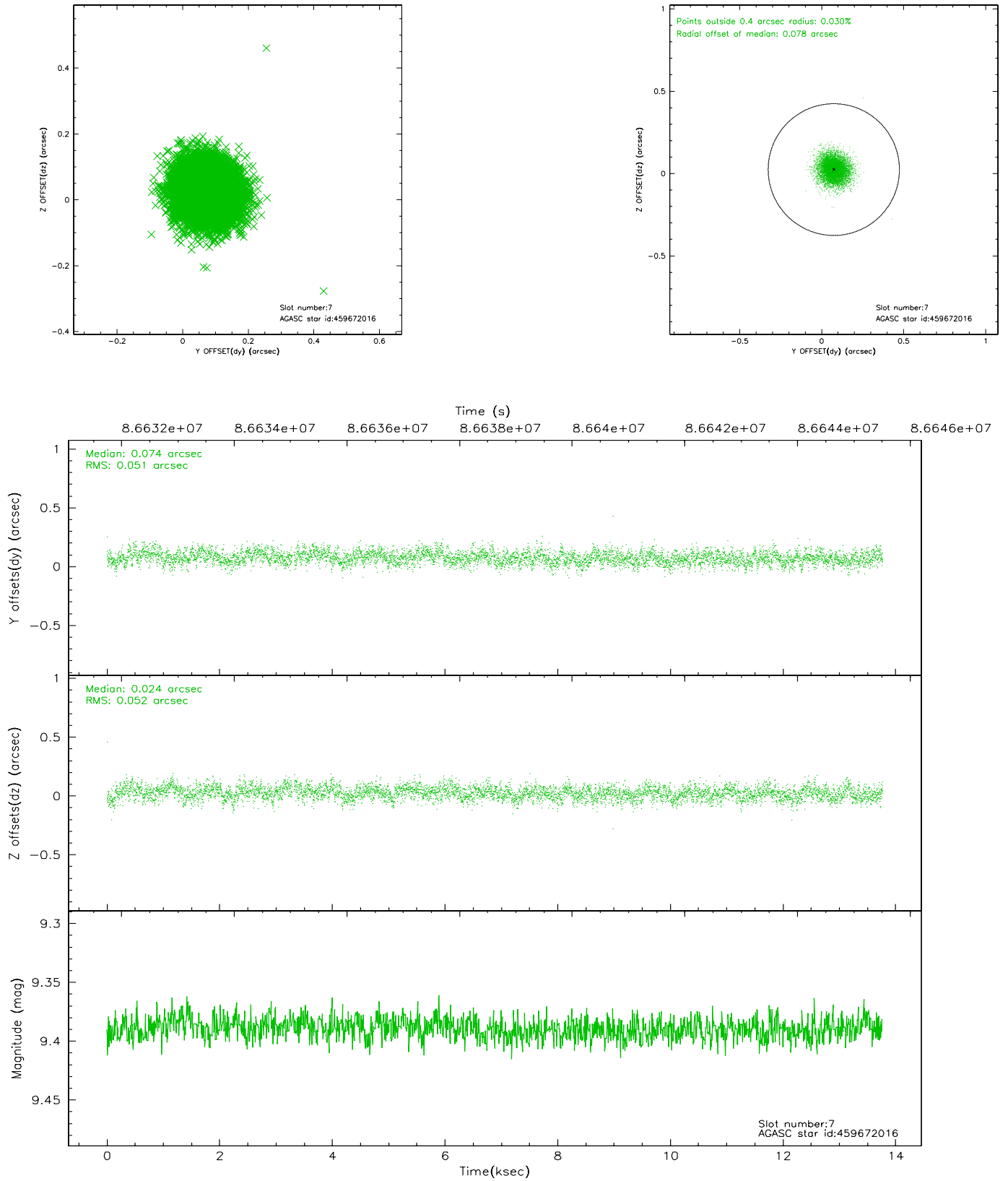
2.4.3 Slot 5



2.4.4 Slot 6

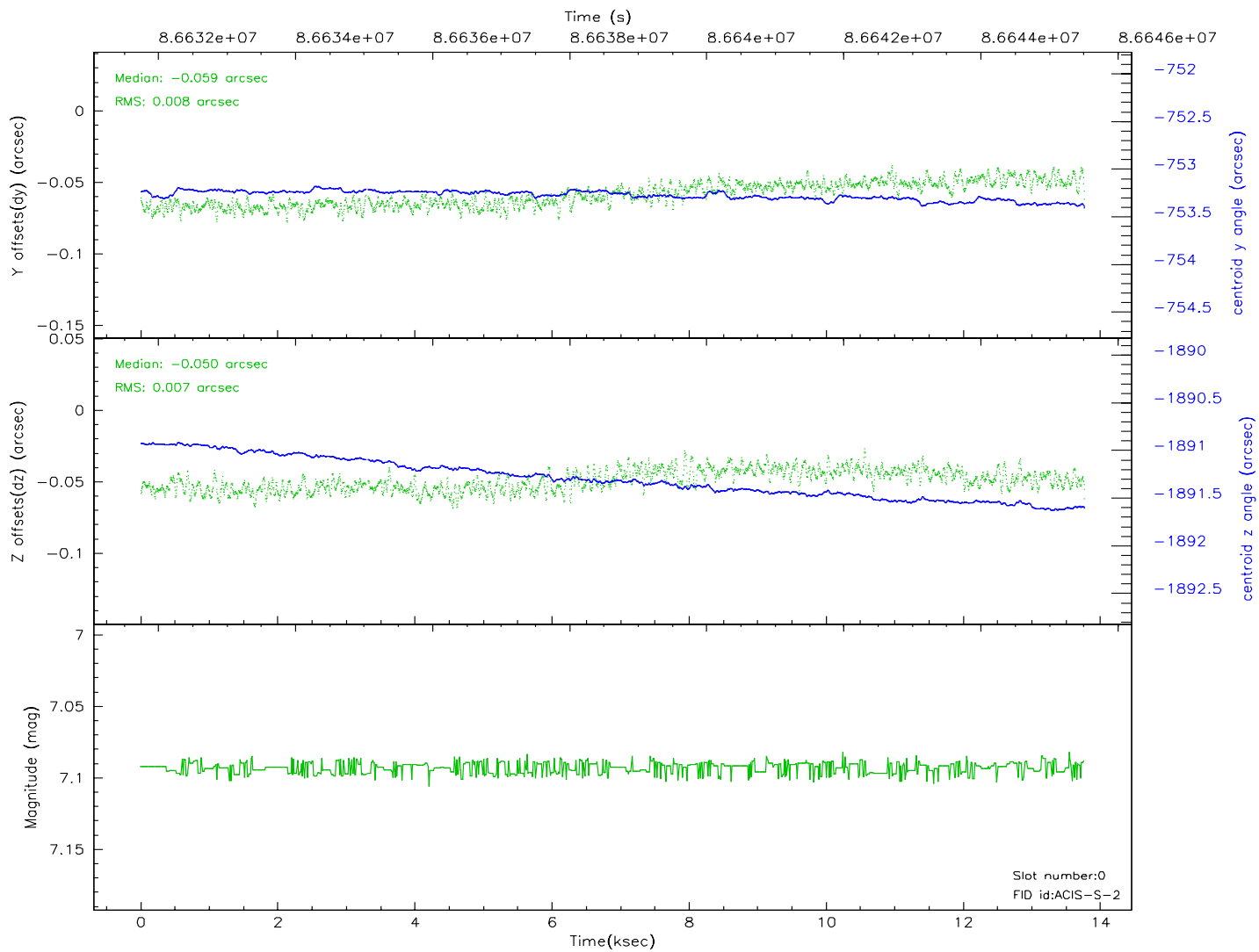
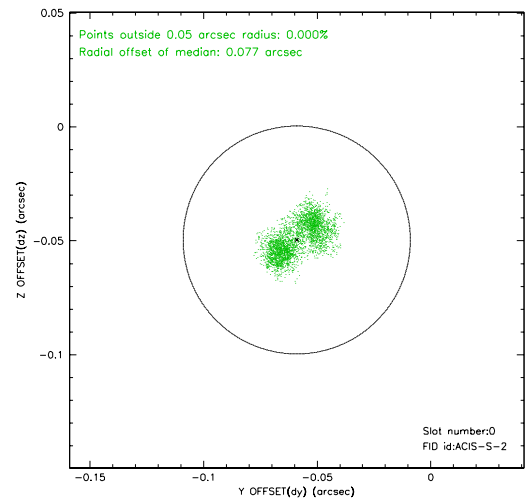
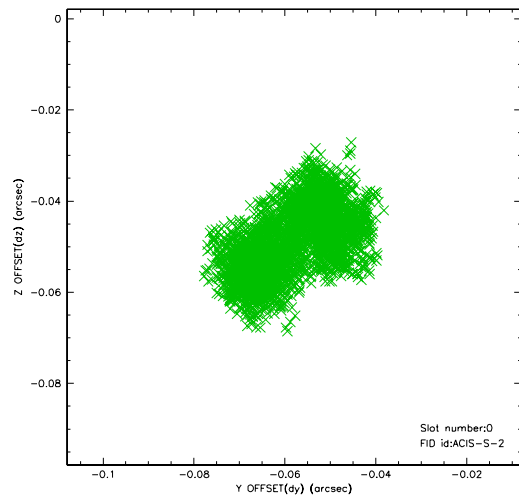


2.4.5 Slot 7

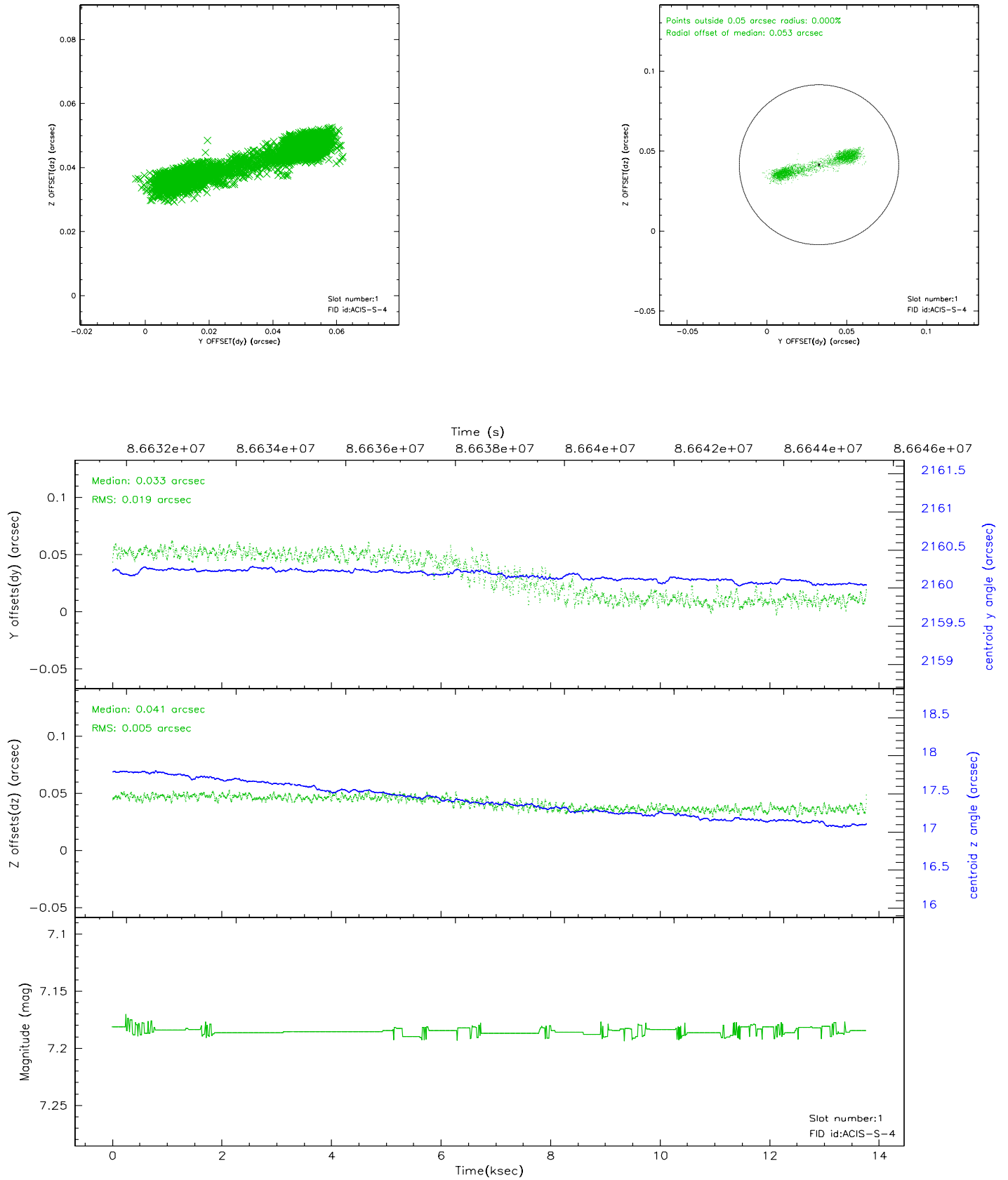


2.5 FID Slots

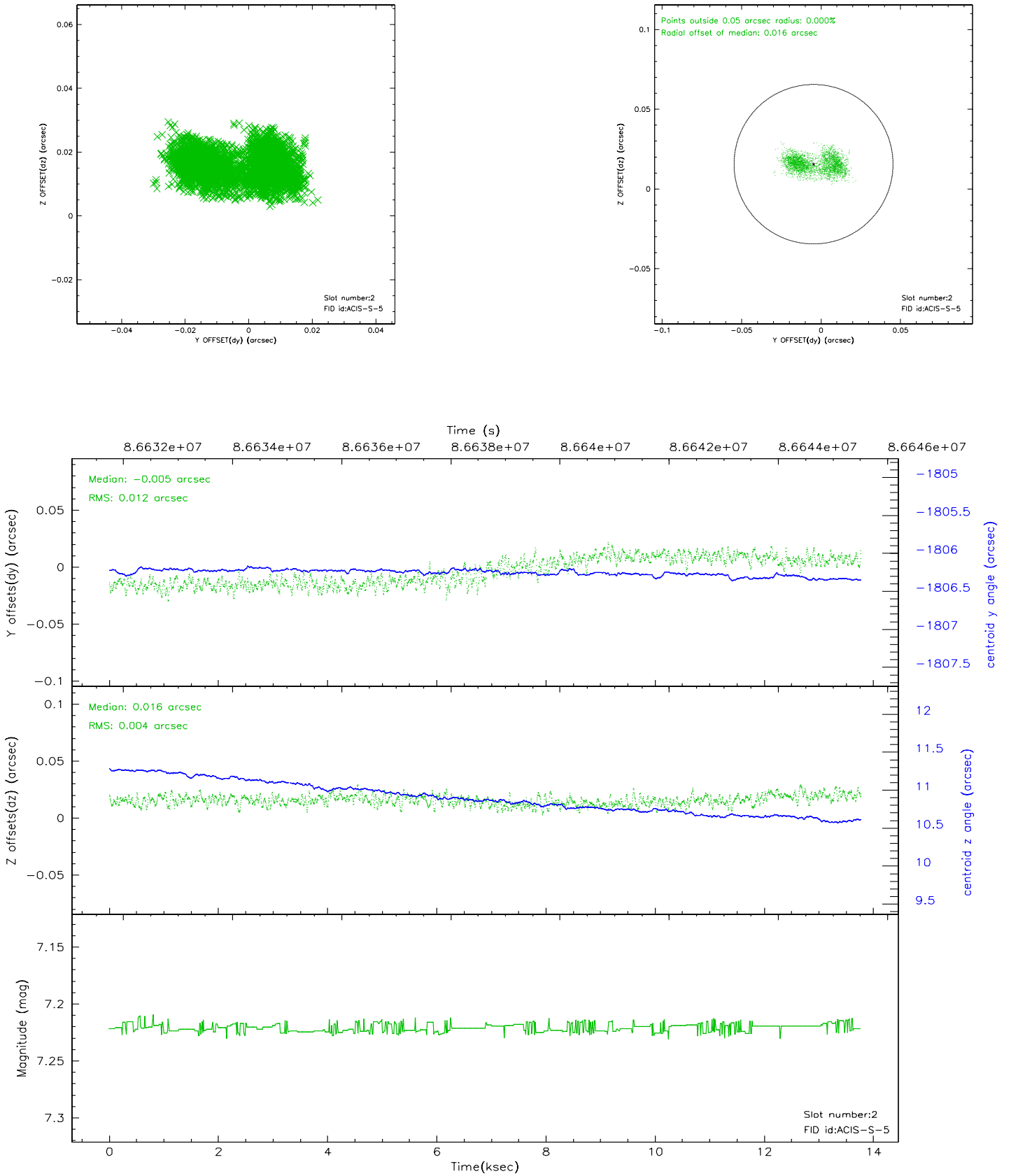
2.5.1 Slot 0



2.5.2 Slot 1



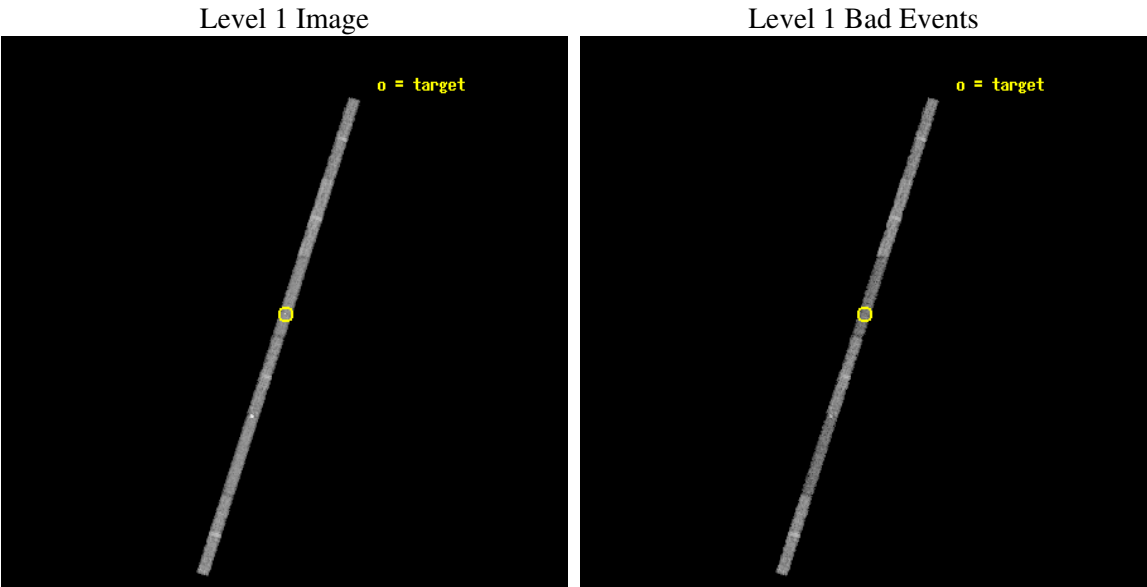
2.5.3 Slot 2



3 OBI Secondary

3.1 OBI

3.1.1 Images



3.1.2 Bias

Chip 4

Chip 5

Chip 6



Chip 7

Chip 8

Chip 9



3.1.3 Parameters

obi_num	0
ascdsver	7.6.10
caldsver	3.4.0
date	2007-06-09T13:36:10
revision	3

sched_exp_time	12875.957000
ontime	11867.865342021
ontime4	11867.865112916
ontime5	11867.864833385
ontime6	11867.865681201
ontime7	11867.865342021
ontime8	11867.86512278
ontime9	11867.864893585
l1events	85885

3.1.4 Events

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	15023	14372	13479	12598	18022	12391
rejected events	13551	6804	12203	6835	15352	11167
rejected %	90%	47%	90%	54%	85%	90%

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	467	1306	392	689	688	420
	3%	9%	2%	5%	3%	3%
grade 1 events	2	177	3	9	6	2
	0%	1%	0%	0%	0%	0%
grade 2 events	309	1947	206	1152	471	175
	2%	13%	1%	9%	2%	1%
grade 3 events	252	579	236	691	341	252
	1%	4%	1%	5%	1%	2%
grade 4 events	233	593	226	628	333	200
	1%	4%	1%	4%	1%	1%
grade 5 events	297	1247	338	1036	450	341
	1%	8%	2%	8%	2%	2%
grade 6 events	231	3256	235	2712	913	210
	1%	22%	1%	21%	5%	1%
grade 7 events	13232	5267	11843	5681	14820	10791
	88%	36%	87%	45%	82%	87%

4 Point Sources

A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2007.06.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	13.26

A.2 Comments

Focal plane temperature is warmer than -118.7 C degrees during the first 1.5 ksec of this observation. The ACIS spectral response calibration for the front-illuminated chips is less accurate at these warmer temperatures than it is at -119.7 C. The back-illuminated chips are not affected at the focal plane temperatures recorded for this observation. Users whose science objectives depend on the most accurate spectral response (i.e.: fitting line-rich spectra) may notice an effect. Users whose science objectives do not depend on the most accurate spectral response should not notice an effect.