

# V&V Reference Report

## L2 ASCDS Version : 7.6.9

Observation 4409 - L2 Version 001  
Chandra X-Ray Center

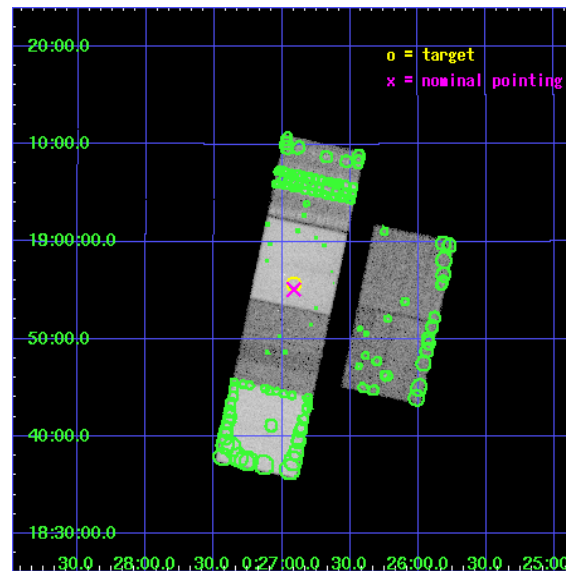
L2 Processing Date : Oct 13 2006

## Contents

<b>1</b>	<b>Front</b>	<b>2</b>
<b>2</b>	<b>OBI</b>	<b>3</b>
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
<b>3</b>	<b>Point Sources</b>	<b>17</b>
<b>A</b>	<b>Summary</b>	<b>18</b>
A.1	Status . . . . .	18
A.2	Comments . . . . .	18

# 1 Front

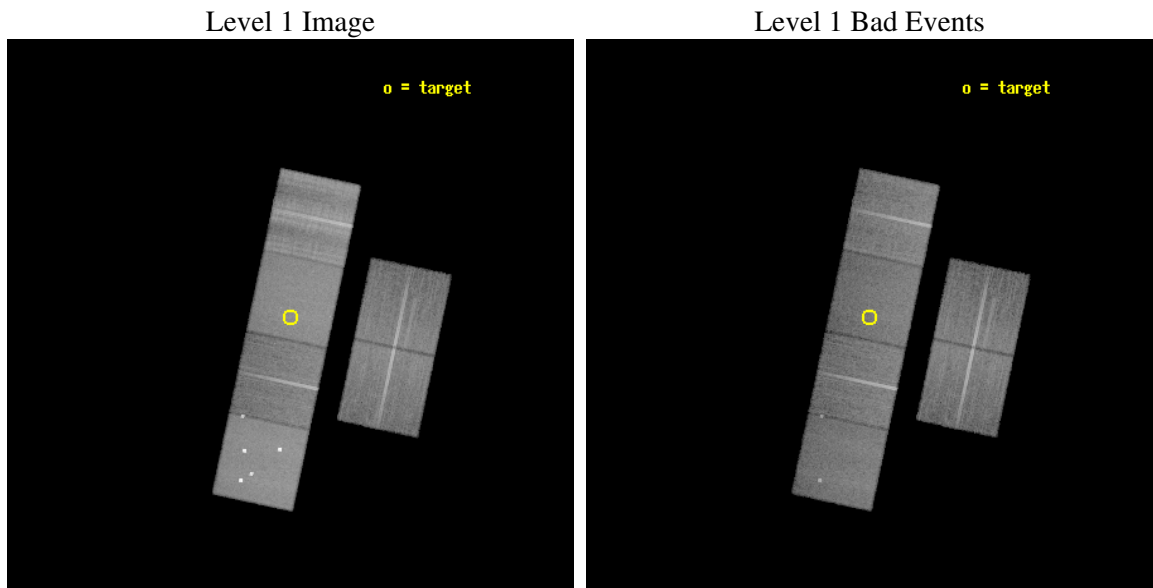
seq_num	500408
obs_id	4409
title	THE DECAYING X-RAY AFTERGLOW OF GRB021004
observer	Dr. Masao Sako
object	GRB021004
dtcycle	0
cycle	P
ra_targ	6.727917
dec_targ	18.928139
ra_nom	6.7282401723177
dec_nom	18.918485361964
roll_nom	282.02277854658
revision	2
ontime	30431.999886632
livetime	30046.651580117
ontime2	30428.758906364
ontime3	30431.999886632
ontime5	30428.758906394
ontime6	30431.999886632
ontime7	30431.999886632
ontime8	30428.75889647
l2events	377188



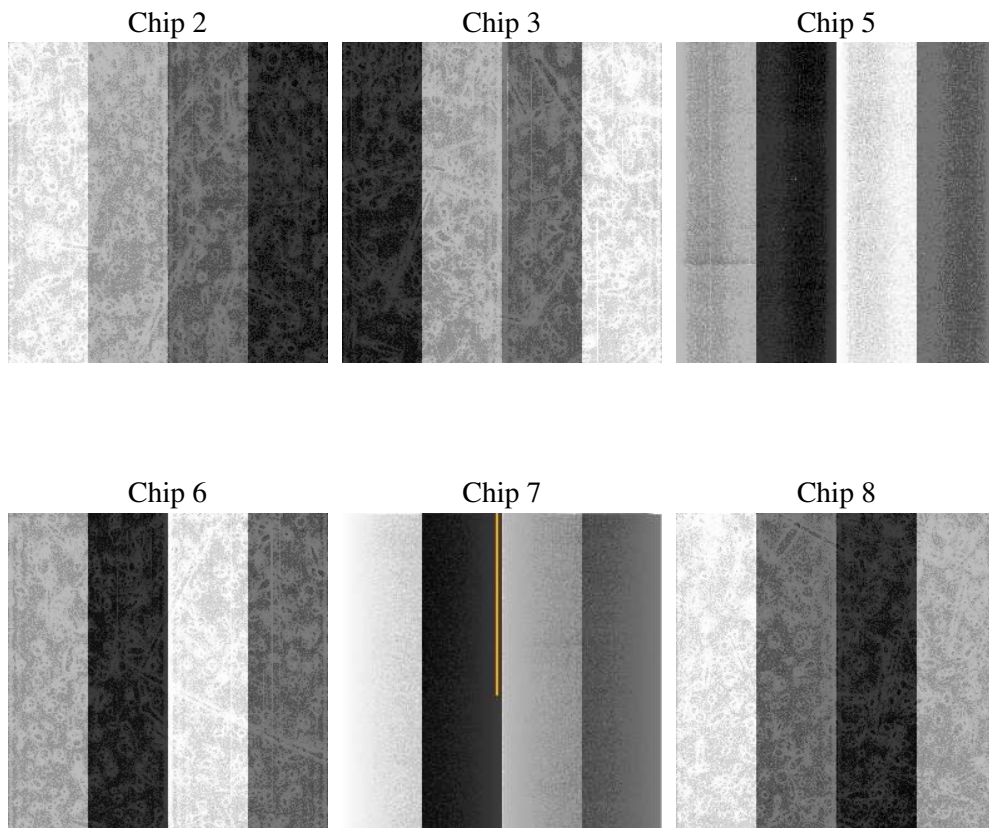
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0
ascdsver	7.6.9
caldsver	3.2.3
date	2006-10-13T13:26:14
revision	2

sched_exp_time	30389.285000
ontime	30436.285618007
ontime2	30433.04463774
ontime3	30436.285618007
ontime5	30433.044637769
ontime6	30436.285598069
ontime7	30436.285618007
ontime8	30433.044607908
l1events	1539933

### 2.1.4 Events

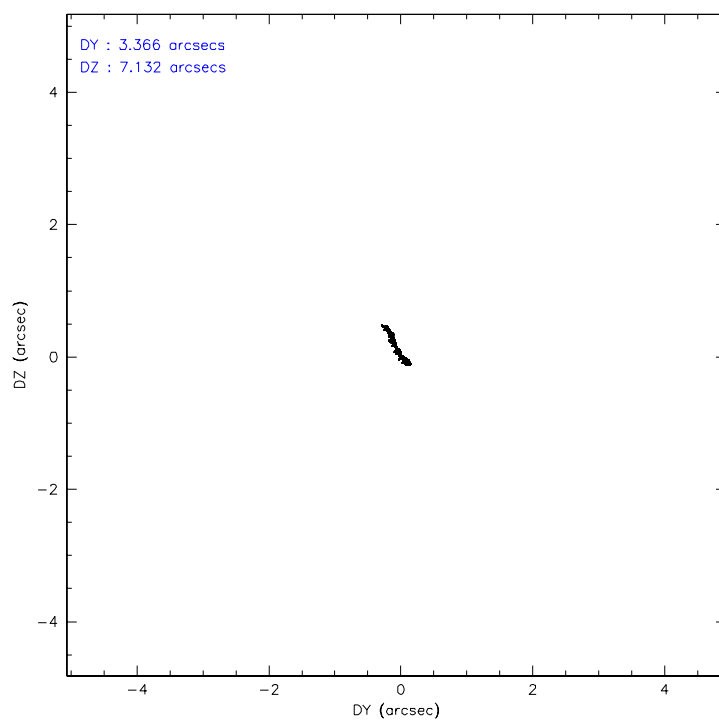
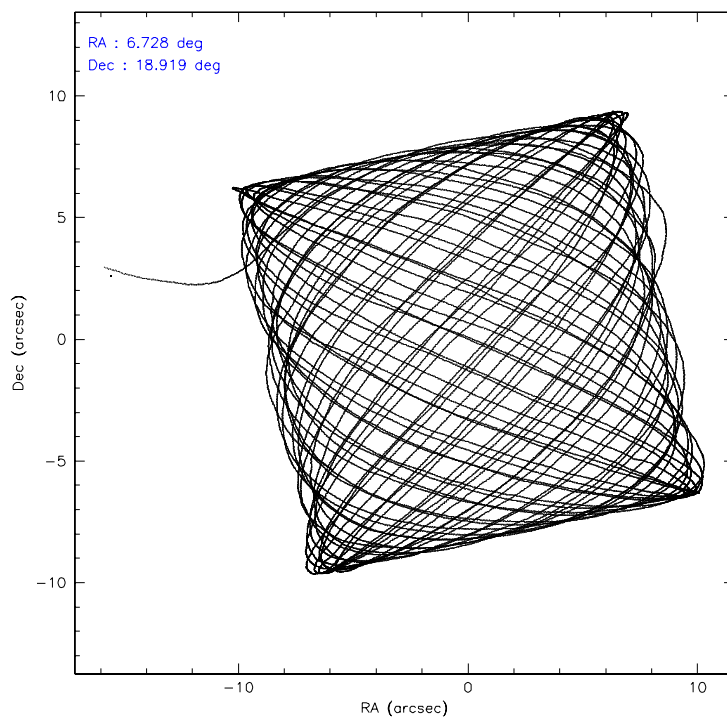
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	209399	195270	335357	206187	279865	313855
rejected events	181672	169226	161056	177496	158520	200818
rejected %	86%	86%	48%	86%	56%	63%

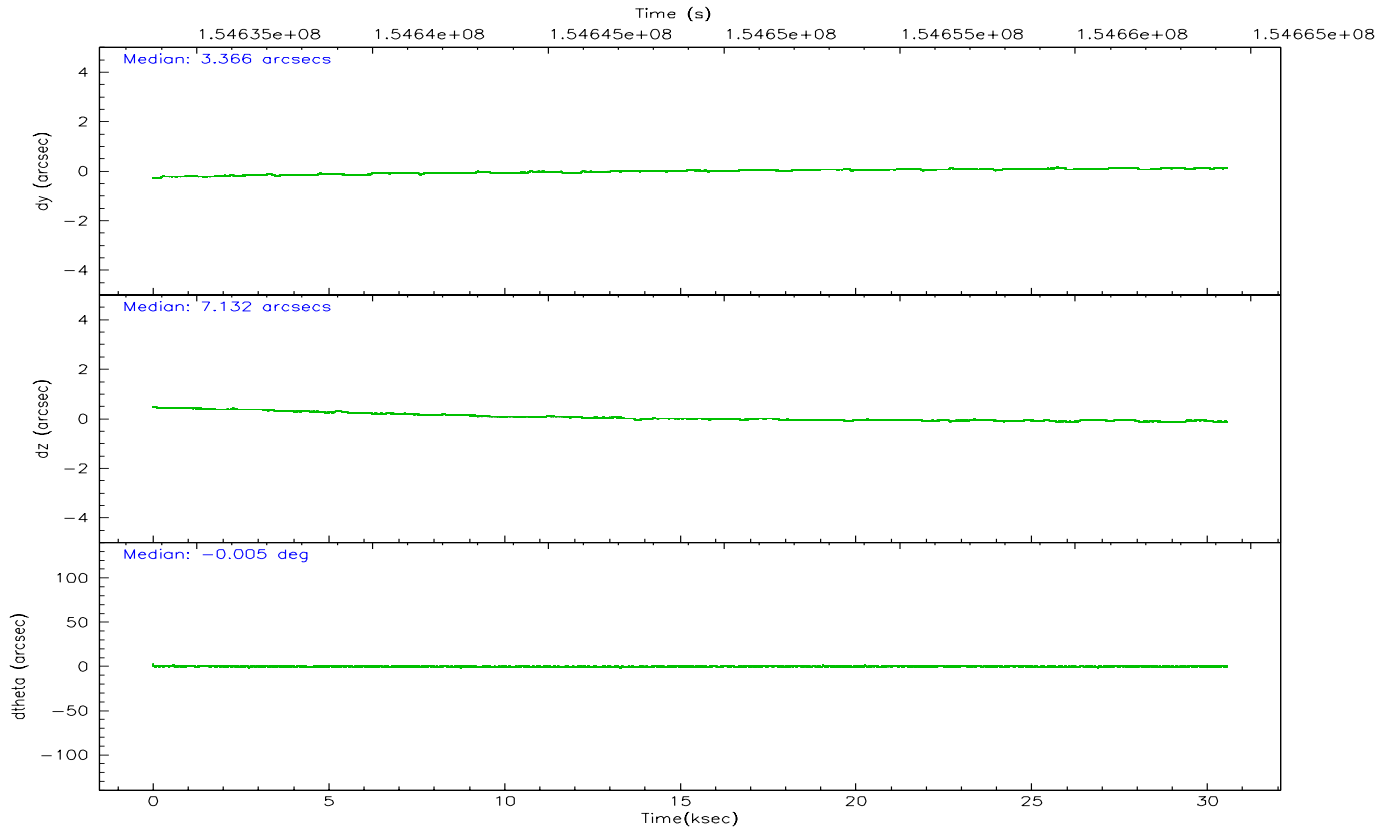
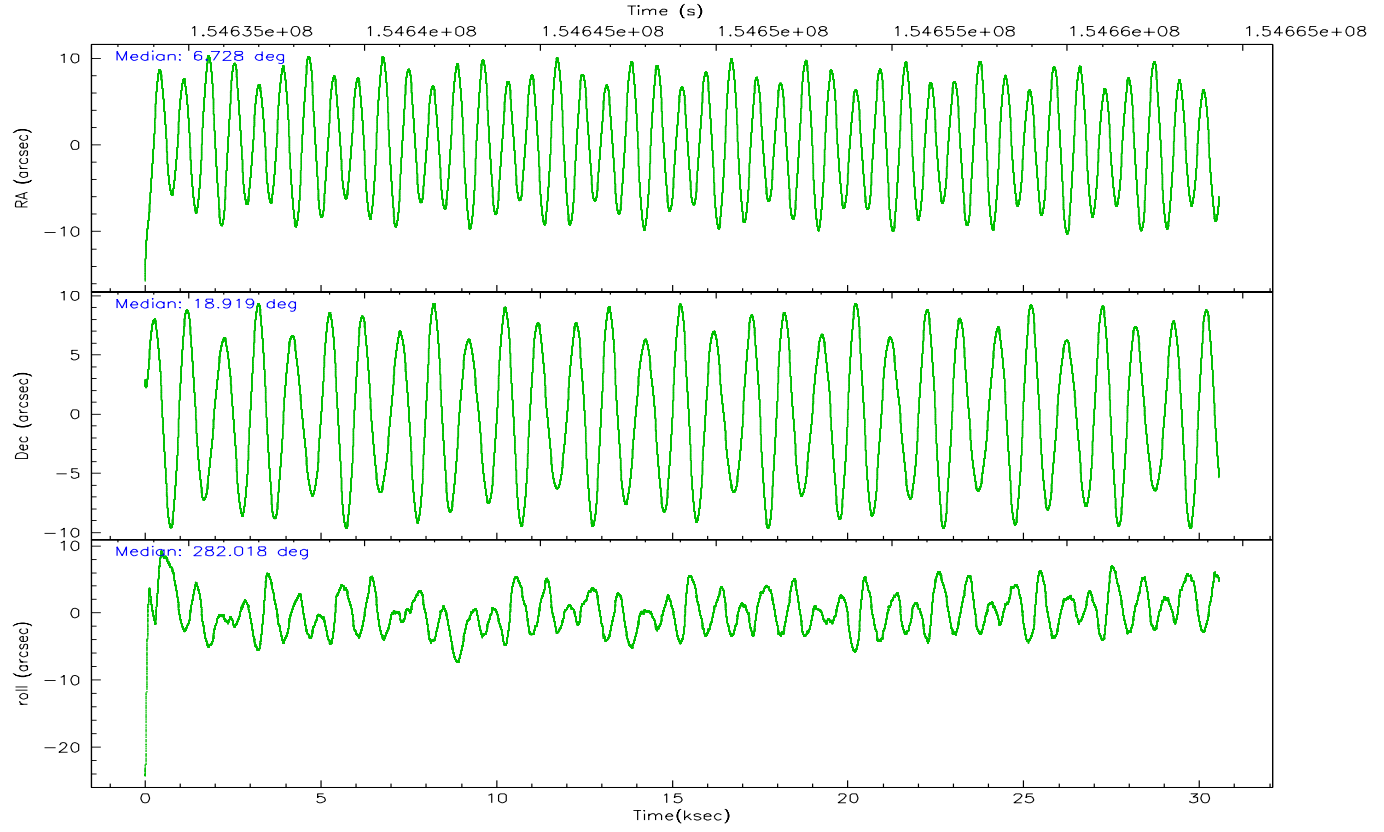
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	12603	11224	34761	12535	8509	39941
	6%	5%	10%	6%	3%	12%
grade 1 events	124	107	1691	129	167	353
	0%	0%	0%	0%	0%	0%
grade 2 events	6037	5645	49743	6479	28690	17209
	2%	2%	14%	3%	10%	5%
grade 3 events	2144	2183	4678	2315	6691	18274
	1%	1%	1%	1%	2%	5%
grade 4 events	2345	2217	4332	2167	6599	16385
	1%	1%	1%	1%	2%	5%
grade 5 events	7236	7902	14021	8425	16826	11712
	3%	4%	4%	4%	6%	3%
grade 6 events	4605	4782	80841	5206	70908	21261
	2%	2%	24%	2%	25%	6%
grade 7 events	174305	161210	145290	168931	141475	188720
	83%	82%	43%	81%	50%	60%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-235678	ACIS-235678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
Pointing RA	6.708706	6.728240172317731	Subarray requested	NONE	NONE
Pointing Dec	18.938452	18.9184853619635	Alternating exposures requested	N	N
Pointing Roll	281.872495	282.0227785465758	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	-190.1425803651734			
SIM translation stage offset (mm)	0	0.01005778216563158			
Observation start time	154633931.184000	154632929.39903			
Observation start date	2002-11-25T17:51:07	2002-11-25T17:35:29			
Observation end time	154664321.184000	154664635.21285			
Observation end date	2002-11-26T02:17:37	2002-11-26T02:23:55			
Read mode	TIMED	TIMED			

## 2.3 Aspect





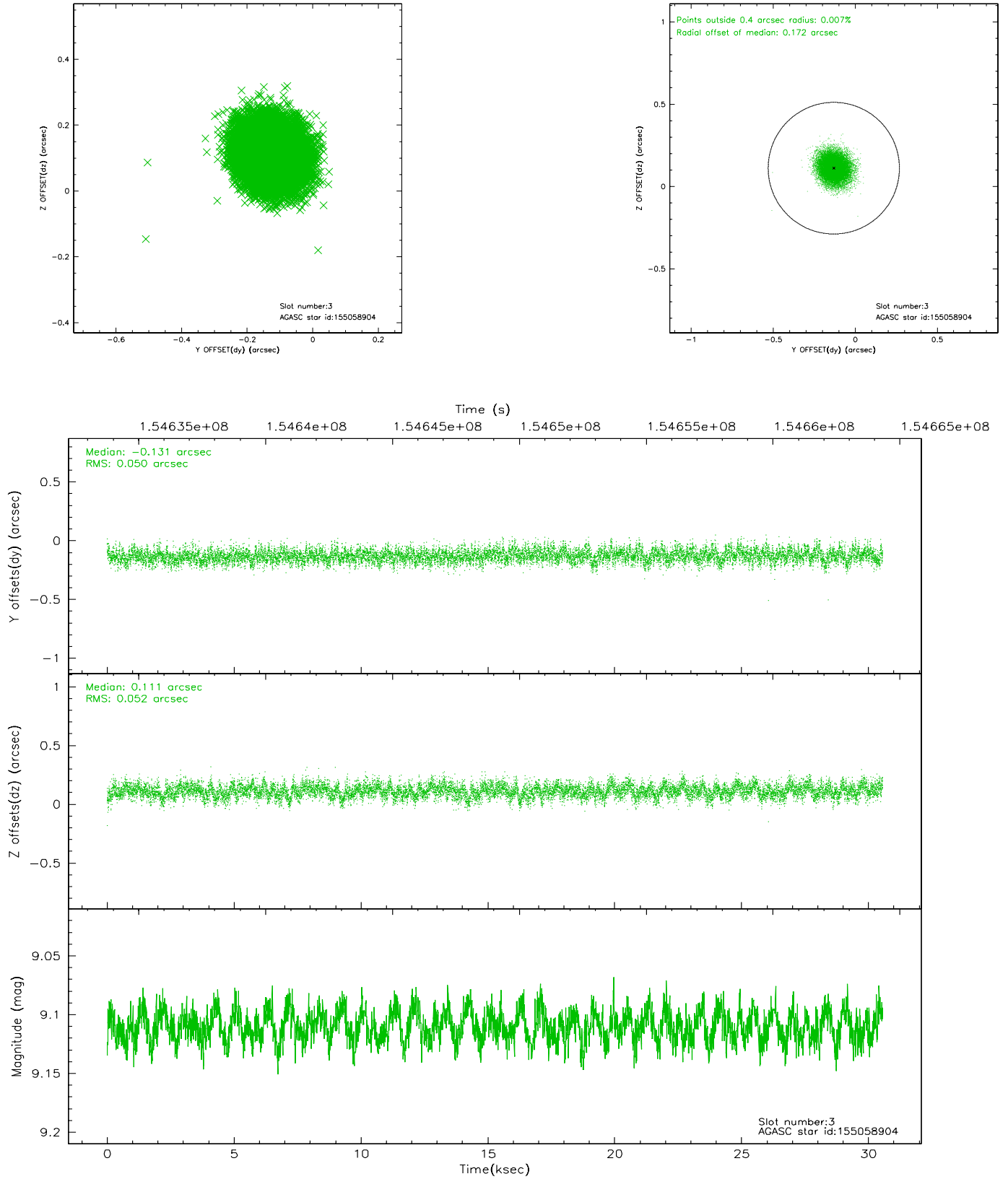
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.20	7455	0.018	-0.017	0.012	0.018	0.000000	0.000000	940.02	-1723.98
1	FID	ACIS-S-5	7.25	7454	-0.006	0.028	0.011	0.017	0.000000	0.000000	-1808.93	173.60
2	FID	ACIS-S-6	7.36	7452	-0.033	0.002	0.009	0.016	0.000000	0.000000	405.50	817.57
3	GUIDE	155058904	9.11	14906	-0.131	0.111	0.076	0.124	6.904184	19.550952	-2020.53	1103.63
4	GUIDE	155058984	9.32	14898	-0.191	-0.026	0.089	0.147	6.828972	19.375406	-1454.39	724.15
5	GUIDE	155069168	8.23	14815	0.212	-0.092	0.081	0.126	6.545753	18.572491	1176.17	-814.23
6	GUIDE	155070392	9.15	14899	0.005	-0.071	0.086	0.141	6.440372	18.435960	1582.85	-1268.15
7	GUIDE	155071624	9.08	14905	0.107	0.079	0.083	0.133	7.410885	18.489377	2072.18	2015.64

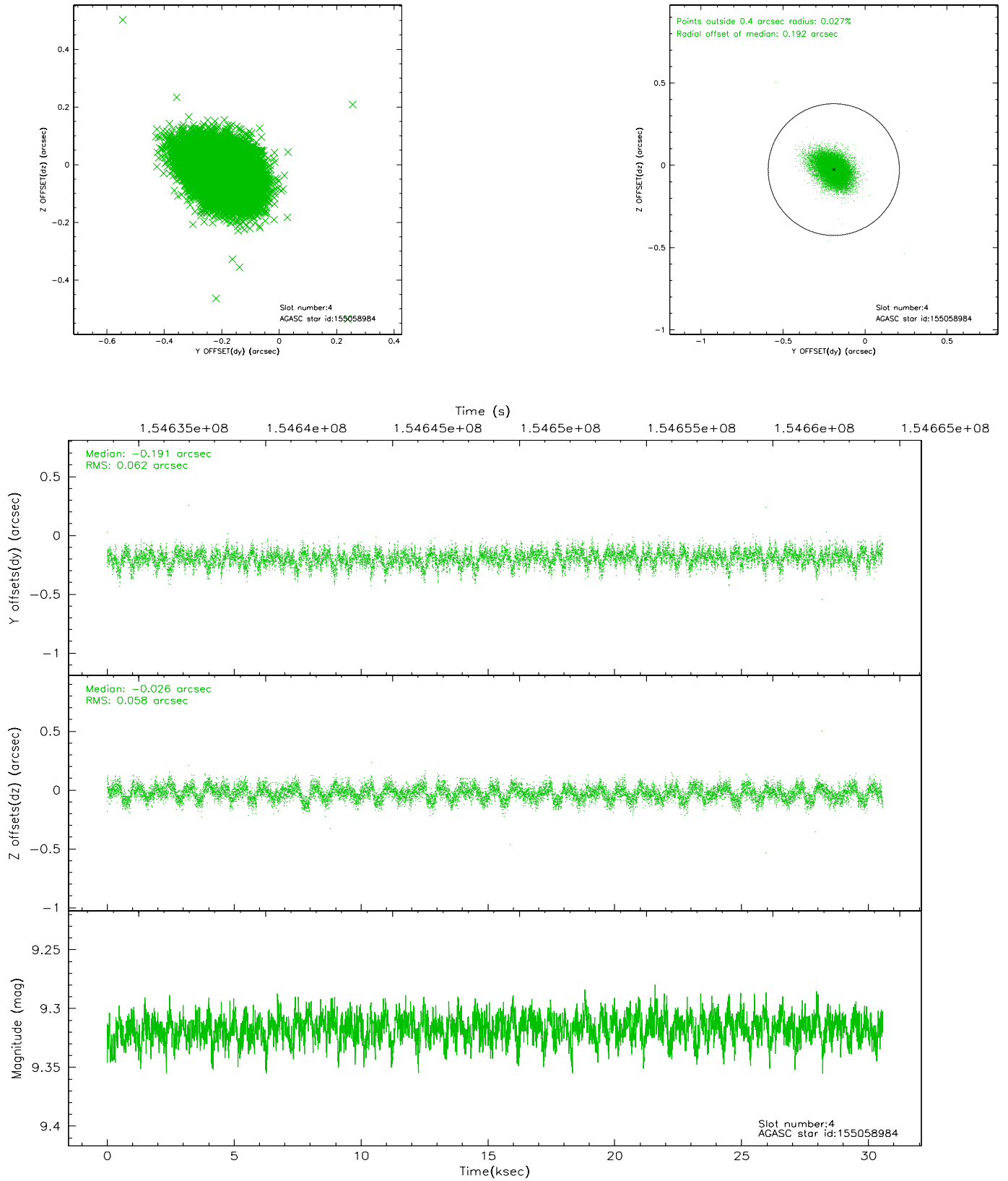


## 2.4 Star Slots

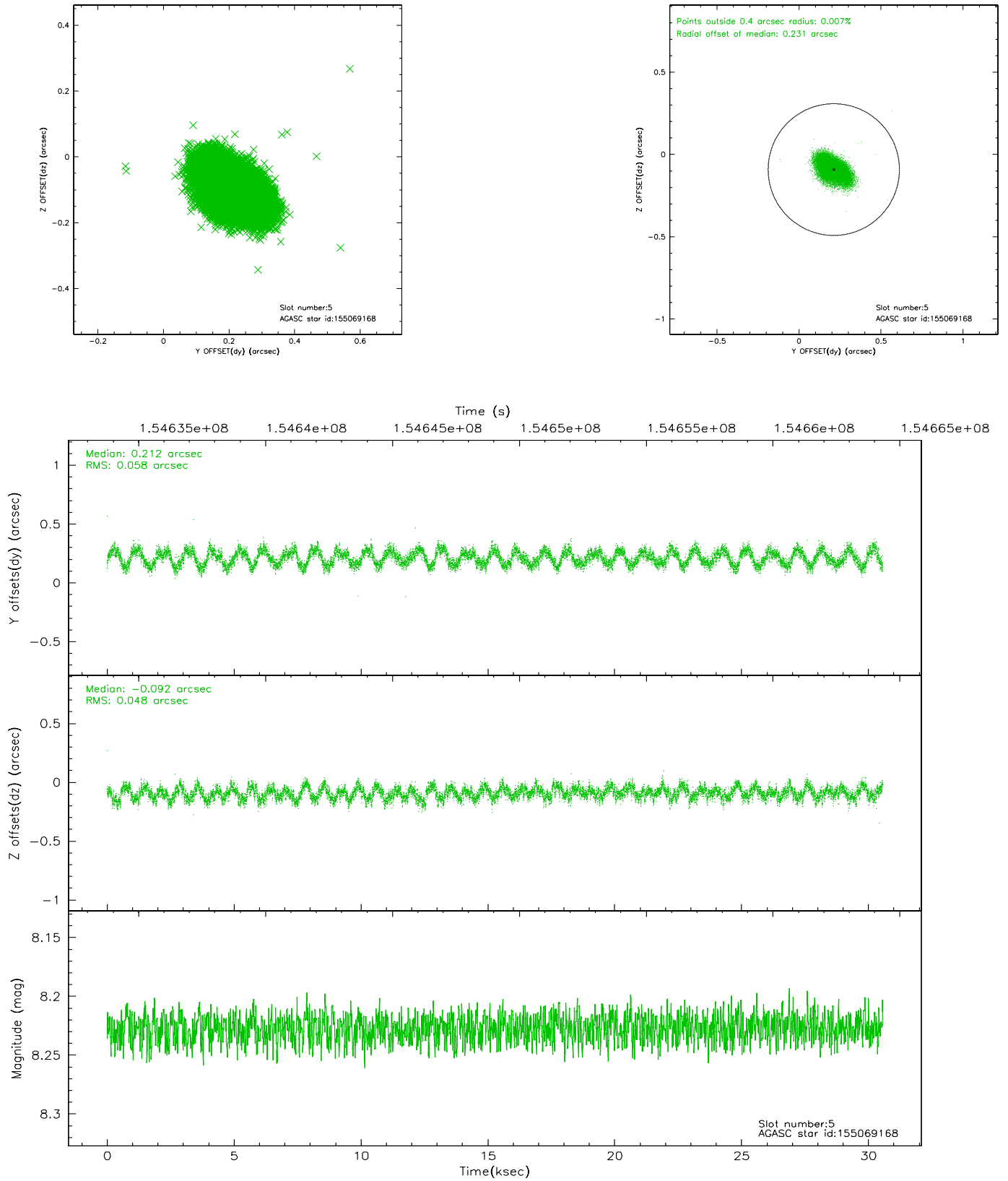
### 2.4.1 Slot 3



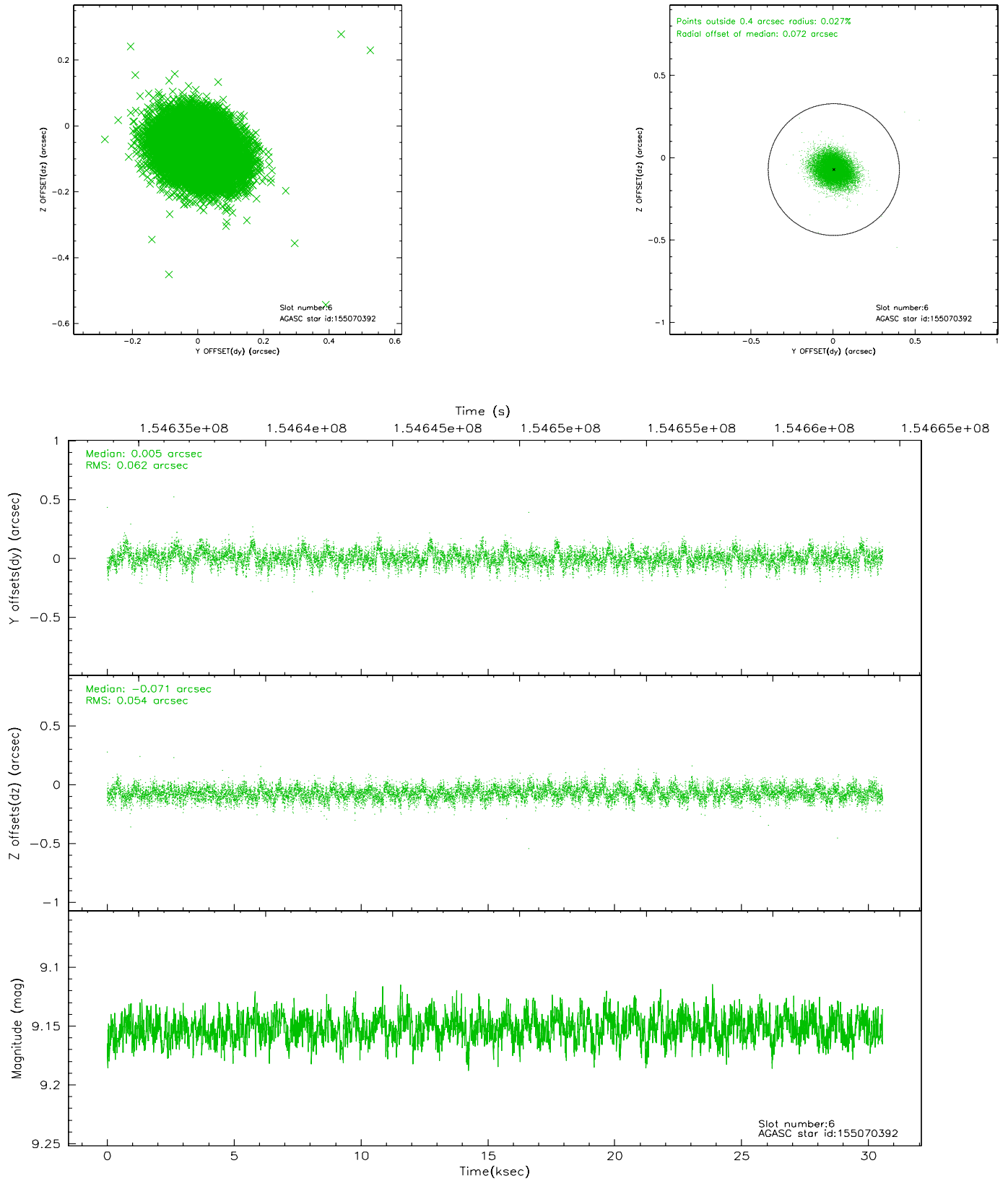
## 2.4.2 Slot 4



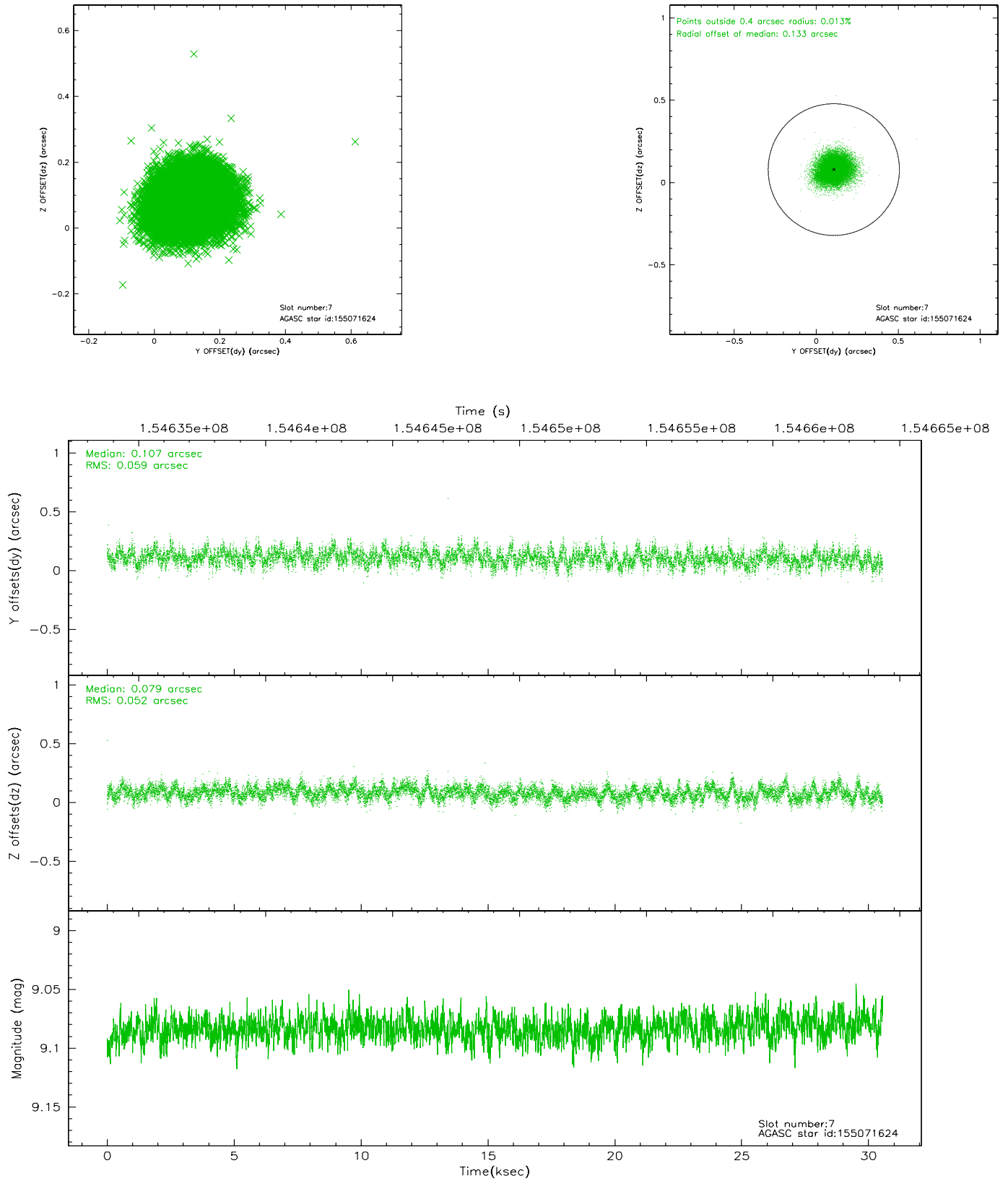
### 2.4.3 Slot 5



## 2.4.4 Slot 6

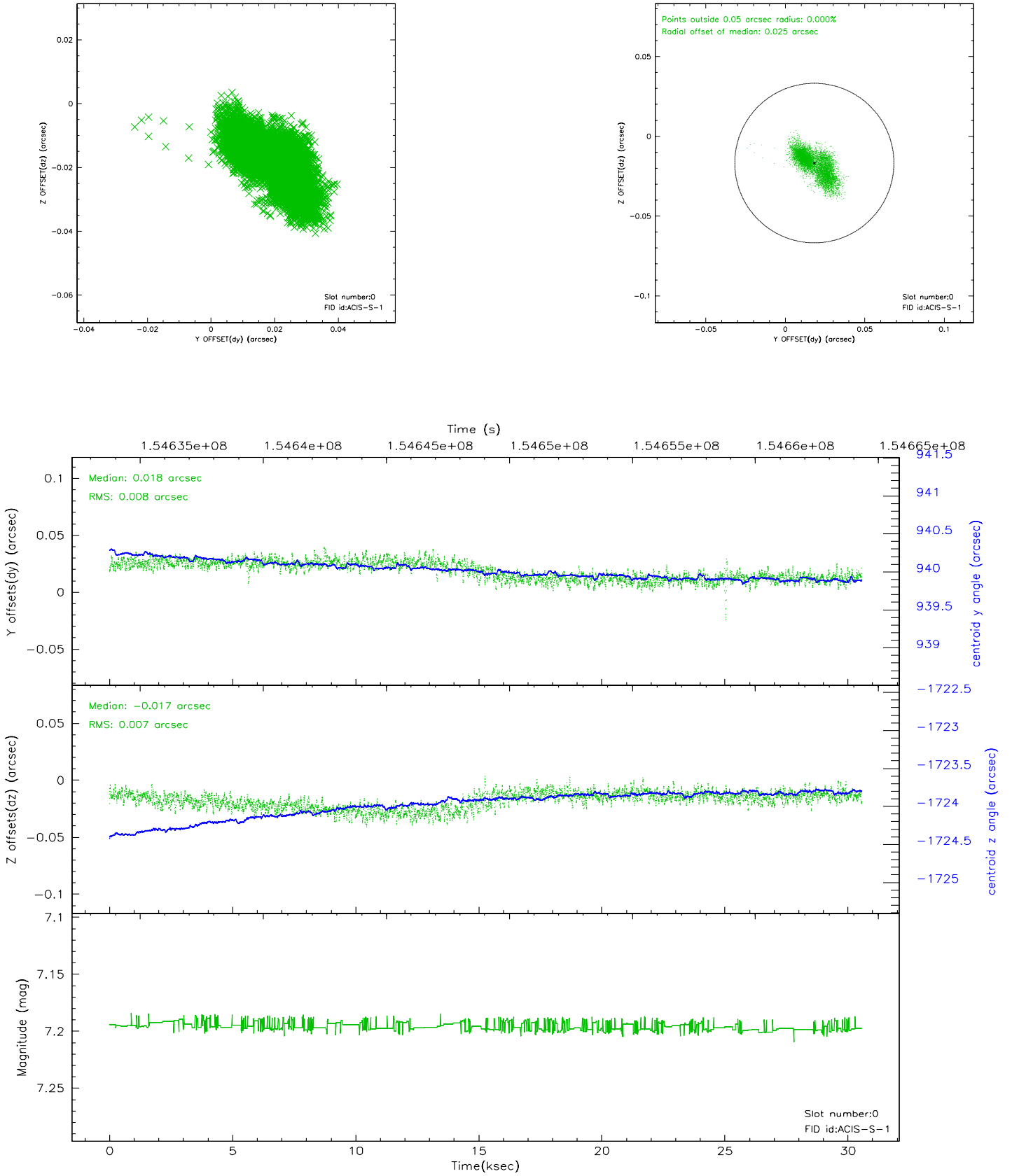


## 2.4.5 Slot 7

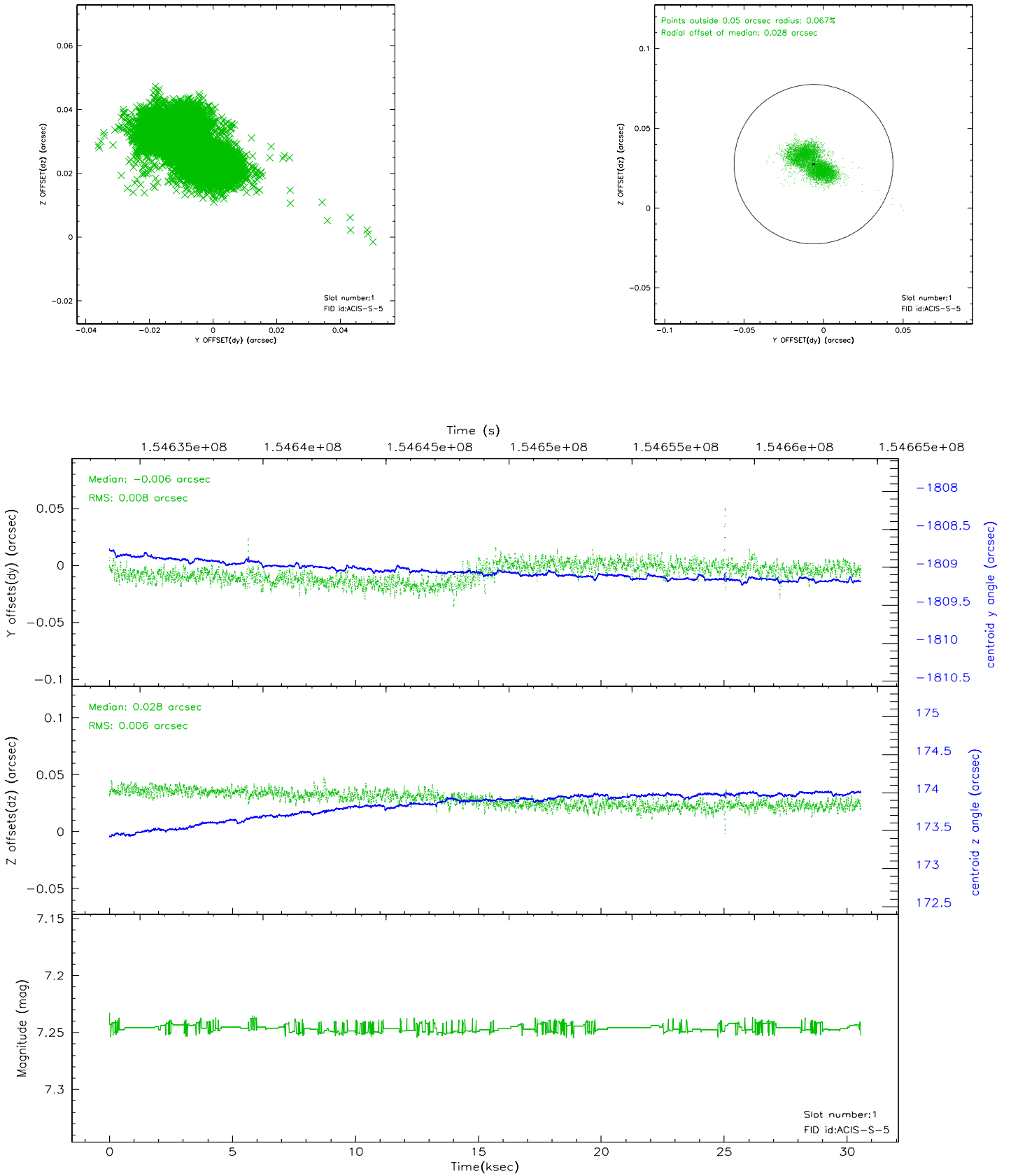


## 2.5 FID Slots

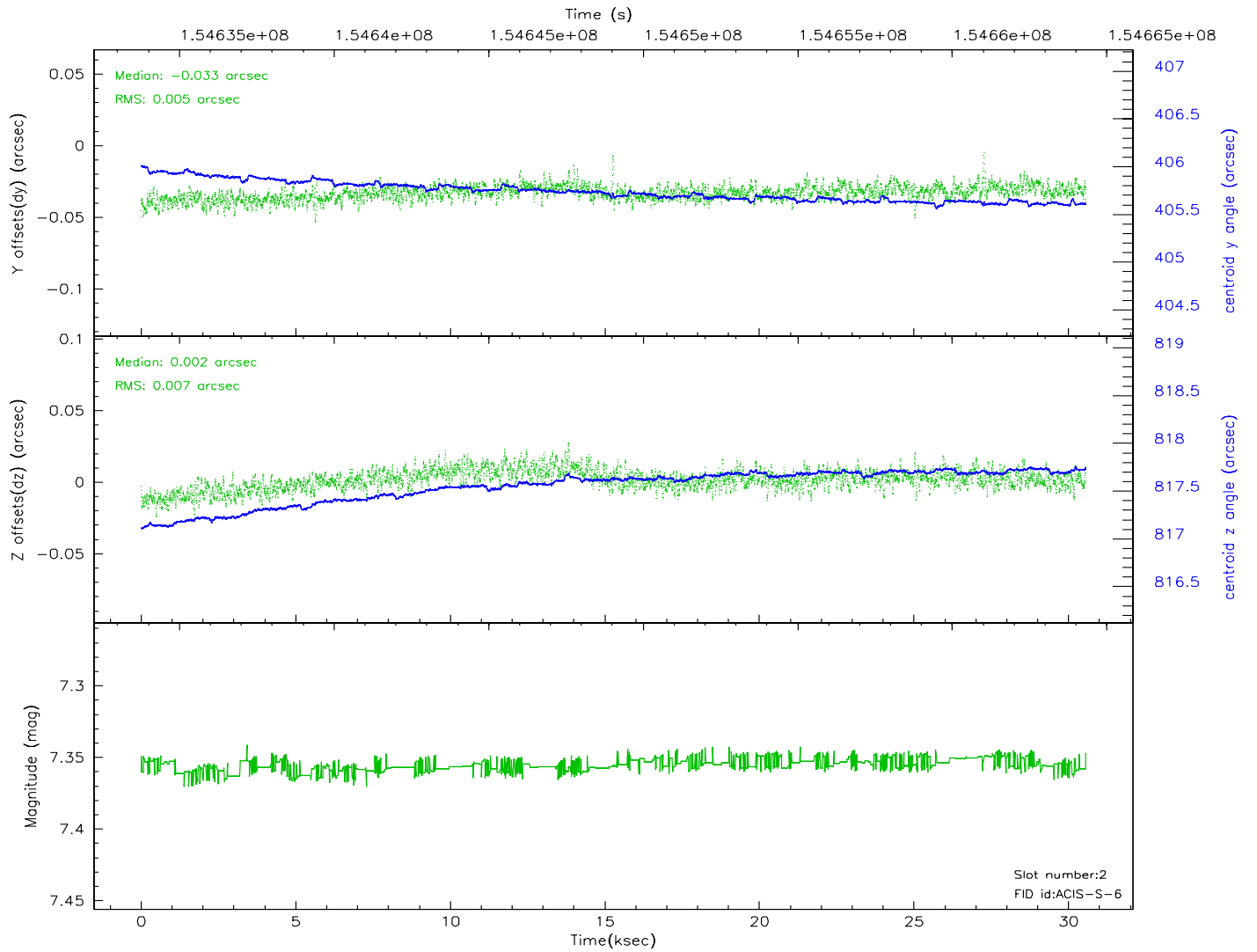
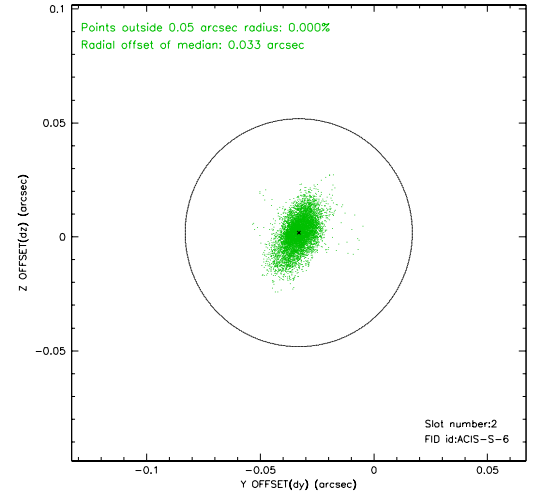
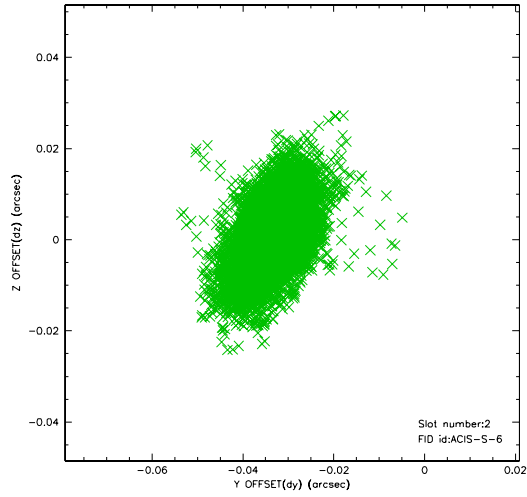
### 2.5.1 Slot 0



## 2.5.2 Slot 1

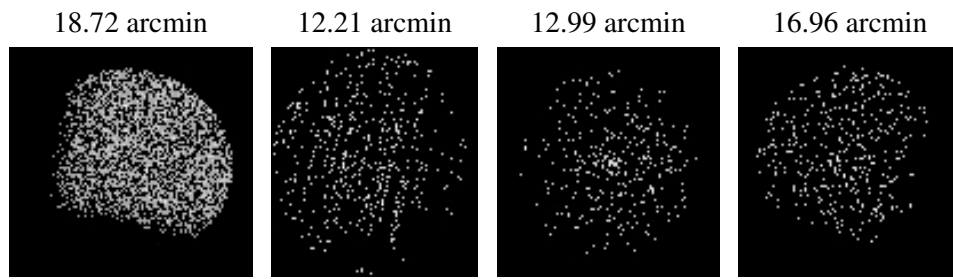


### 2.5.3 Slot 2





### 3 Point Sources



## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2006.10.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	30.431

### A.2 Comments