

# V&V Reference Report

## L2 ASCDS Version : 7.6.10

Observation 326 - L2 Version 001  
Chandra X-Ray Center

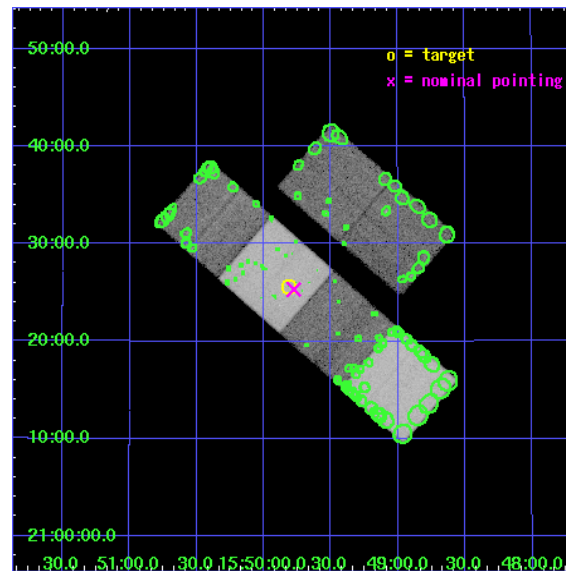
L2 Processing Date : May 27 2007

## 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

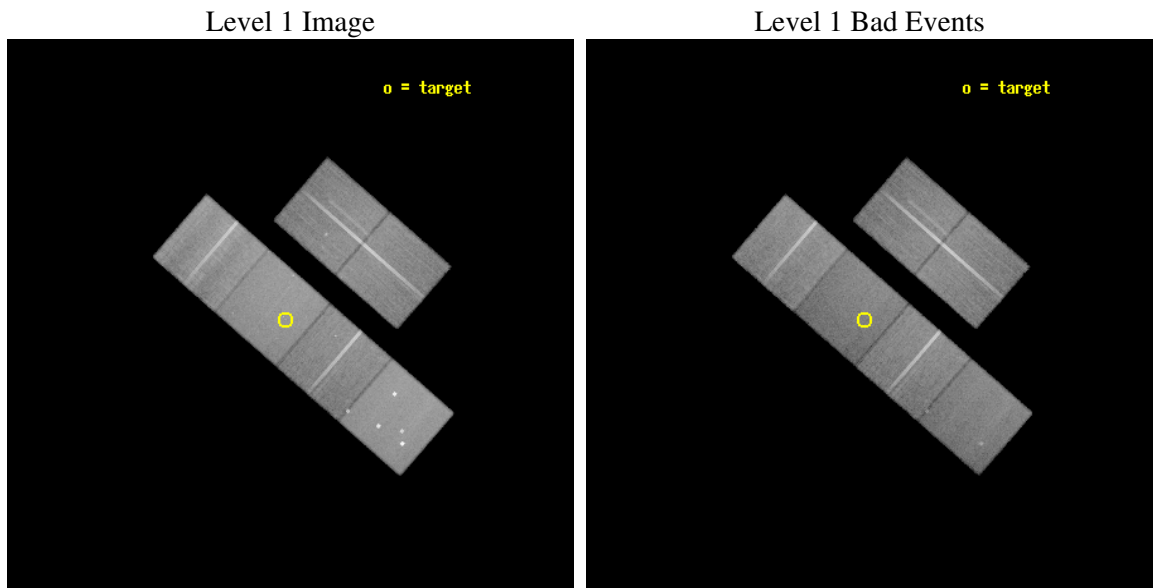
seq_num	800064
obs_id	326
title	BRIGHT ELLIPTICAL GALAXIES AND HIGH REDSHIFT CLUSTERS
observer	Dr Richard Mushotzky
object	3C 324
dtcycle	0
cycle	P
ra_targ	237.45337
dec_targ	21.427194
ra_nom	237.4441326995
dec_nom	21.422131706708
roll_nom	221.07219707415
revision	3
ontime	42723.200039789
livetime	42182.213156063
ontime2	42723.200039789
ontime3	42719.959079549
ontime5	42723.200039789
ontime6	42723.200039789
ontime7	42723.200039789
ontime8	42716.718089387
l2events	449353



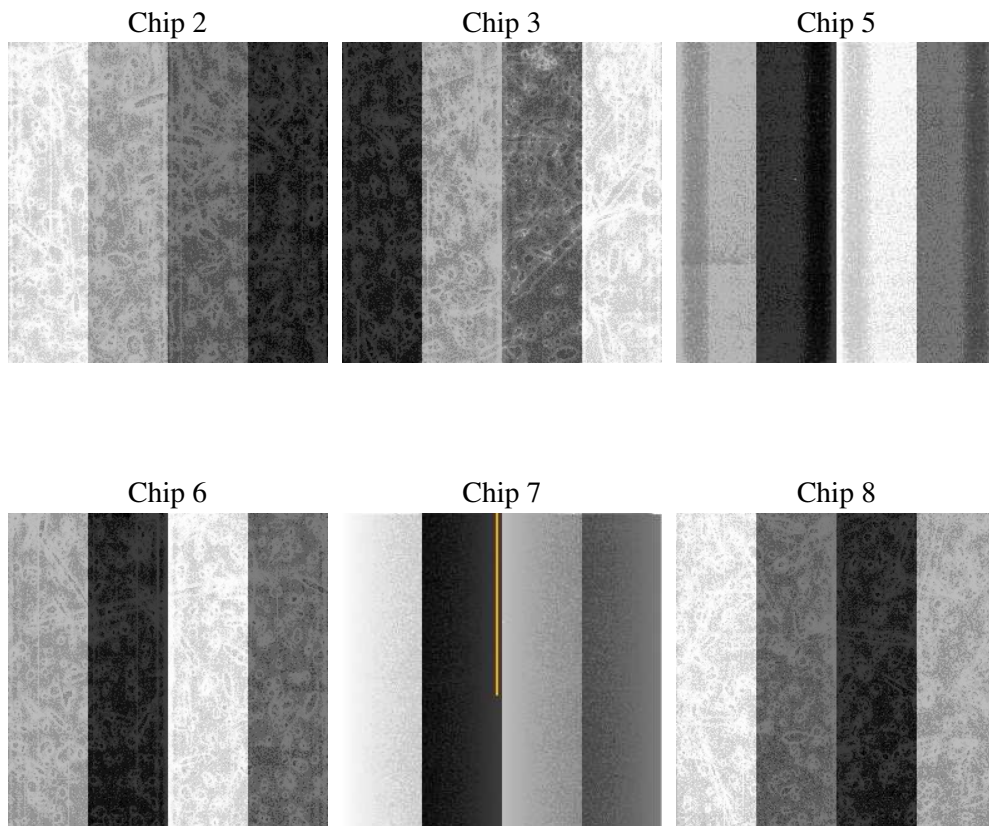
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0
ascdsver	7.6.10
caldsver	3.4.0
date	2007-05-27T12:36:39
revision	3

sched_exp_time	42969.754000
ontime	42723.200039789
ontime2	42723.200039789
ontime3	42719.959079549
ontime5	42723.200039789
ontime6	42723.200039789
ontime7	42723.200039789
ontime8	42716.718089387
l1events	1975638

### 2.1.4 Events

	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	292629	280664	396183	285902	351721	368539
rejected events	261496	249123	193883	252935	189445	283218
rejected %	89%	88%	48%	88%	53%	76%

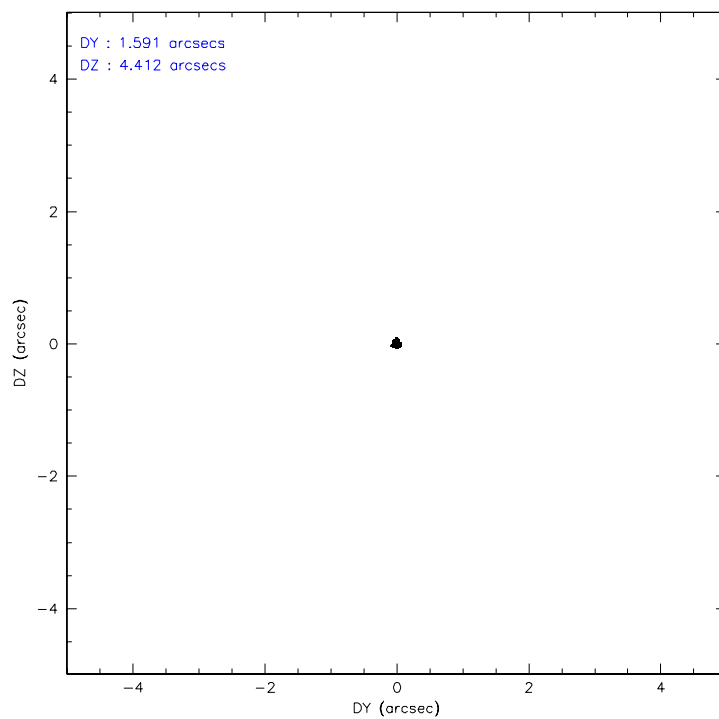
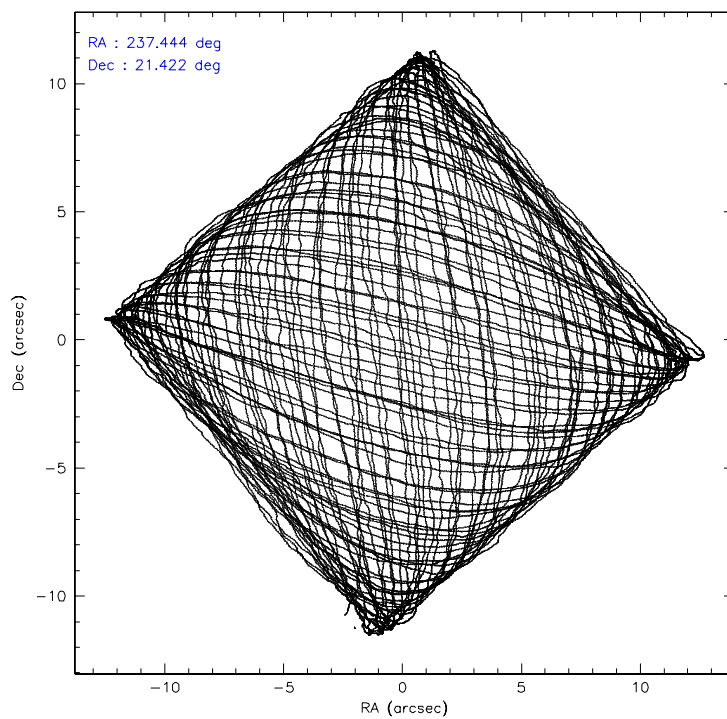
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	13209	14264	38628	14186	18263	26765
	4%	5%	9%	4%	5%	7%
grade 1 events	119	139	1178	132	329	234
	0%	0%	0%	0%	0%	0%
grade 2 events	6843	6139	53297	6545	32431	16848
	2%	2%	13%	2%	9%	4%
grade 3 events	2903	2839	9260	3196	14951	10676
	0%	1%	2%	1%	4%	2%
grade 4 events	2928	2978	9307	3035	14717	9698
	1%	1%	2%	1%	4%	2%
grade 5 events	8794	9465	28009	10334	31440	13611
	3%	3%	7%	3%	8%	3%
grade 6 events	5255	5329	91846	6005	81958	21339
	1%	1%	23%	2%	23%	5%
grade 7 events	252578	239511	164658	242469	157632	269368
	86%	85%	41%	84%	44%	73%

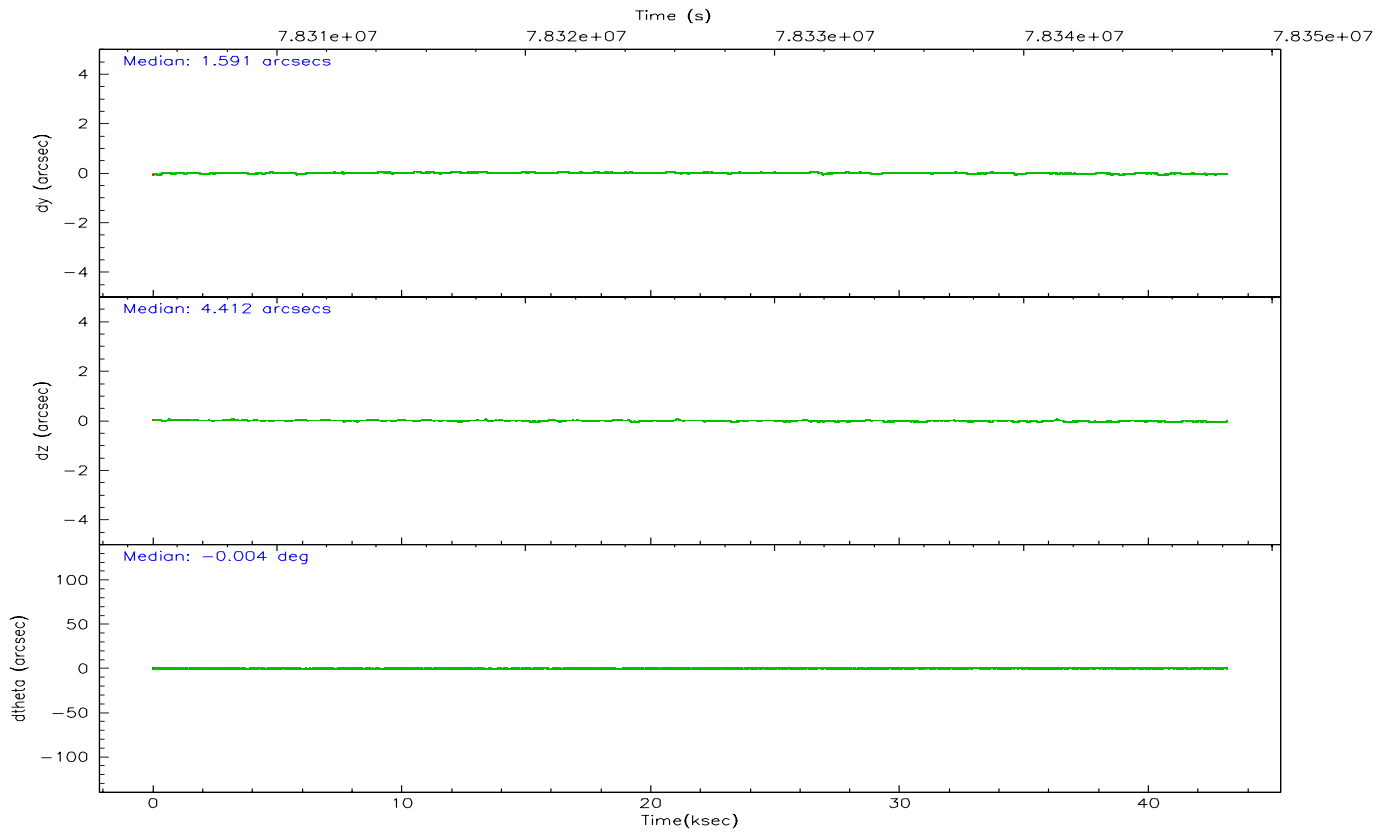
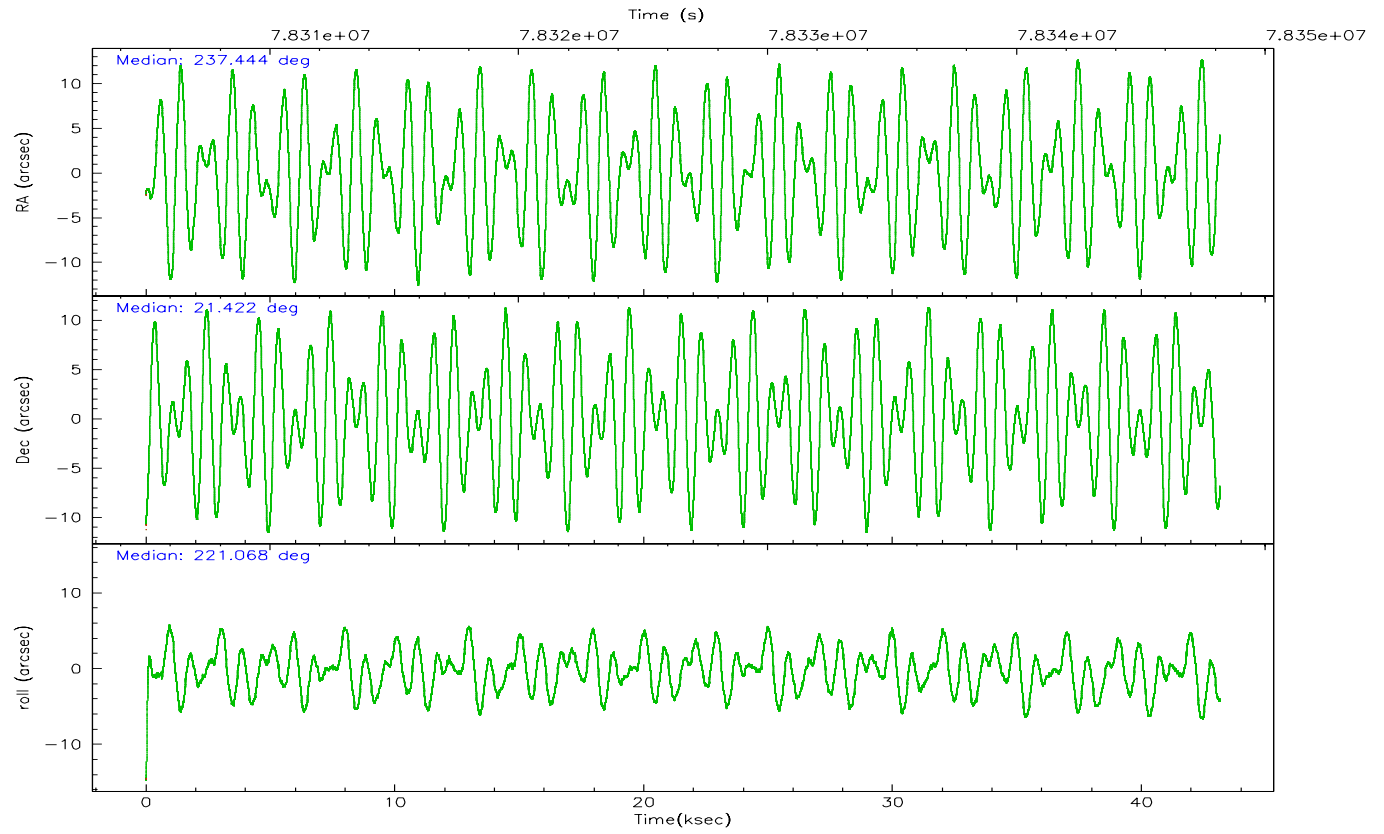


## 2.2 Compared Parameters

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	237.453584	237.4441326994974	Subarray requested	NONE	NONE
Pointing Dec	21.448091	21.4221317067079	Alternating exposures requested	N	N
Pointing Roll	220.912125	221.0721970741542	Primary exposure time	3.200000	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	78305226.184000	78304759.271608			
Observation start date	2000-06-25T07:26:02	2000-06-25T07:19:19			
Observation end time	78348196.184000	78348505.760721			
Observation end date	2000-06-25T19:22:12	2000-06-25T19:28:25			
Read mode	TIMED	TIMED			

## 2.3 Aspect



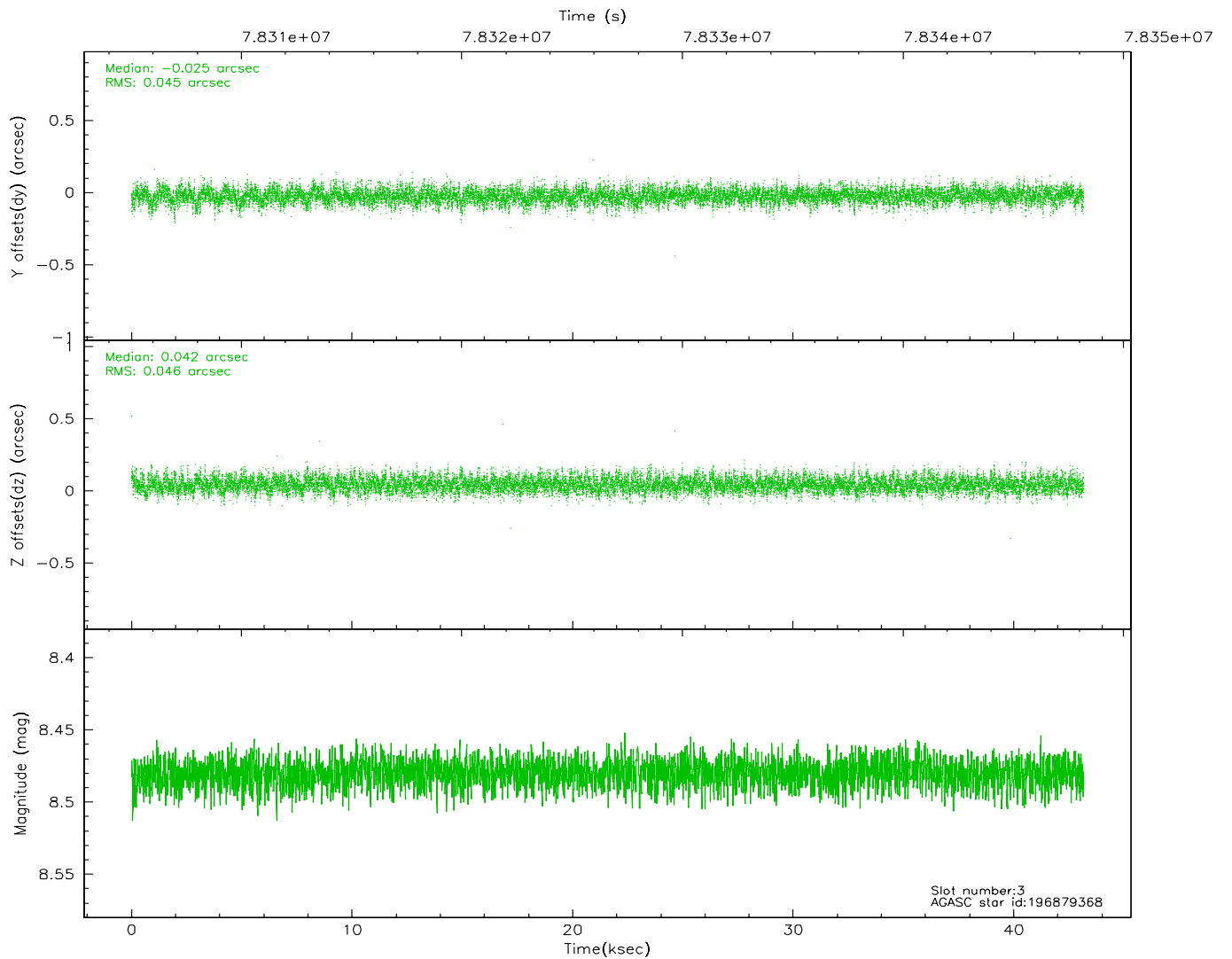
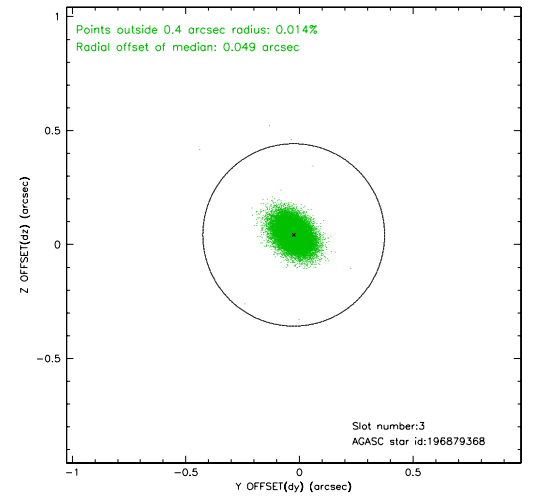
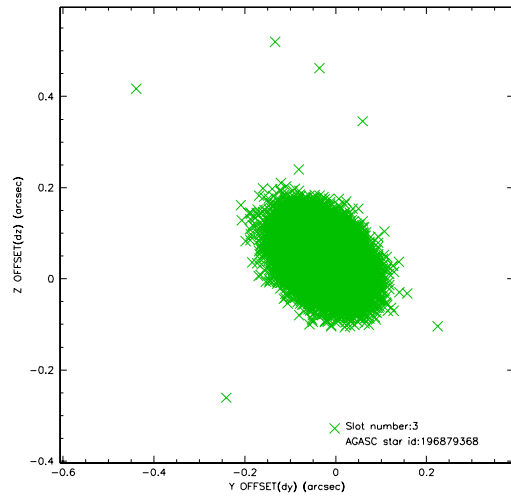


### Slot Statistics

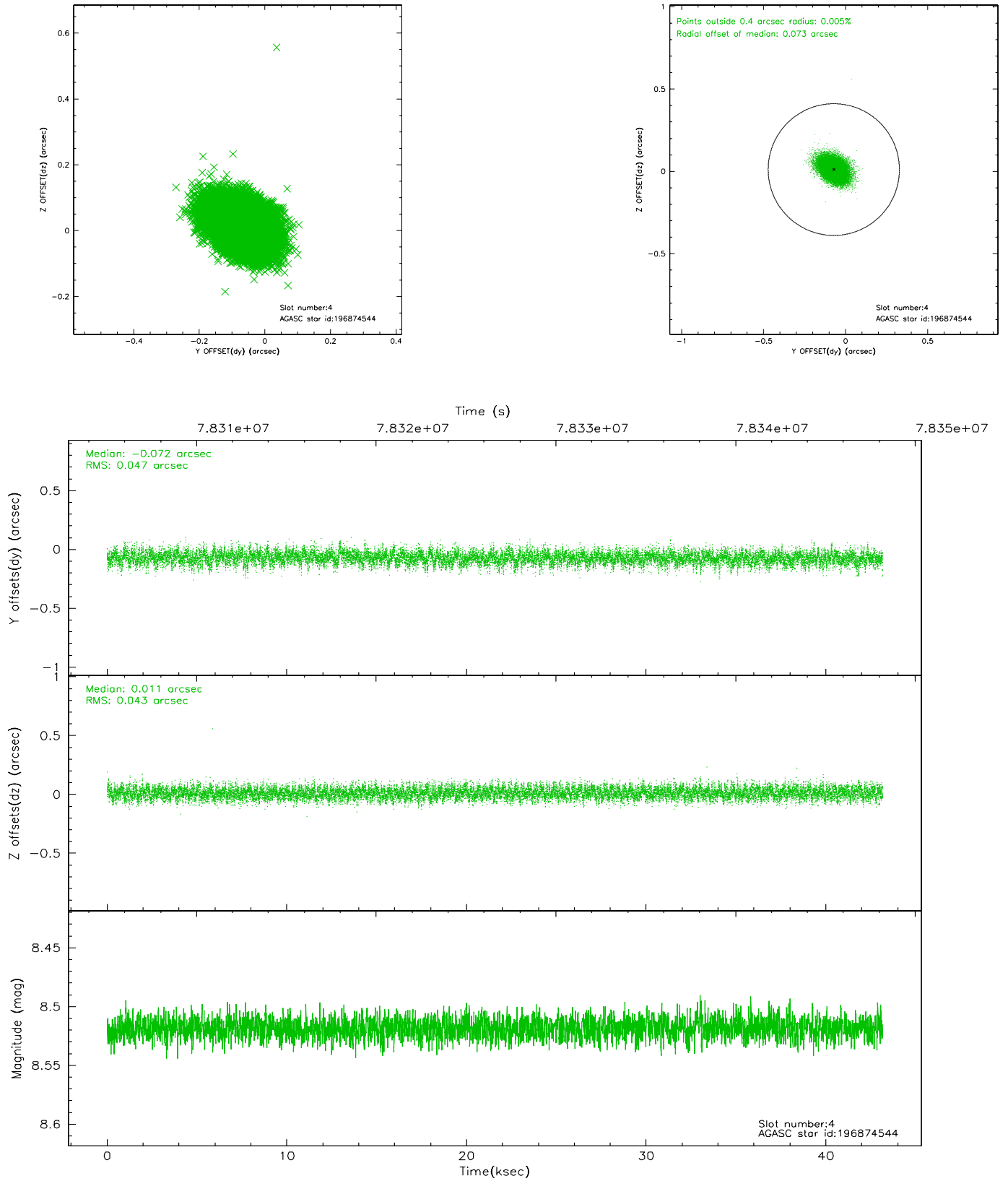
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	10528	-0.012	0.011	0.007	0.011	0.000000	0.000000	-754.22	-1725.44
1	FID	ACIS-S-4	7.21	10528	-0.050	0.003	0.005	0.009	0.000000	0.000000	2159.03	183.02
2	FID	ACIS-S-5	7.24	10528	0.031	-0.005	0.007	0.011	0.000000	0.000000	-1807.00	176.71
3	GUIDE	196879368	8.48	21051	-0.025	0.042	0.067	0.112	237.615541	21.247872	61.93	900.58
4	GUIDE	196874544	8.52	21050	-0.072	0.011	0.066	0.110	238.079241	21.710413	-2201.91	653.68
5	GUIDE	196875104	8.80	21046	-0.078	0.050	0.074	0.123	238.085038	21.551779	-1844.52	1099.49
6	GUIDE	196751472	9.42	21042	0.076	-0.118	0.109	0.178	236.602985	21.373692	2326.27	-1670.73
7	GUIDE	196747144	9.45	21047	0.100	0.016	0.092	0.150	236.889093	21.275438	1836.99	-772.82

## 2.4 Star Slots

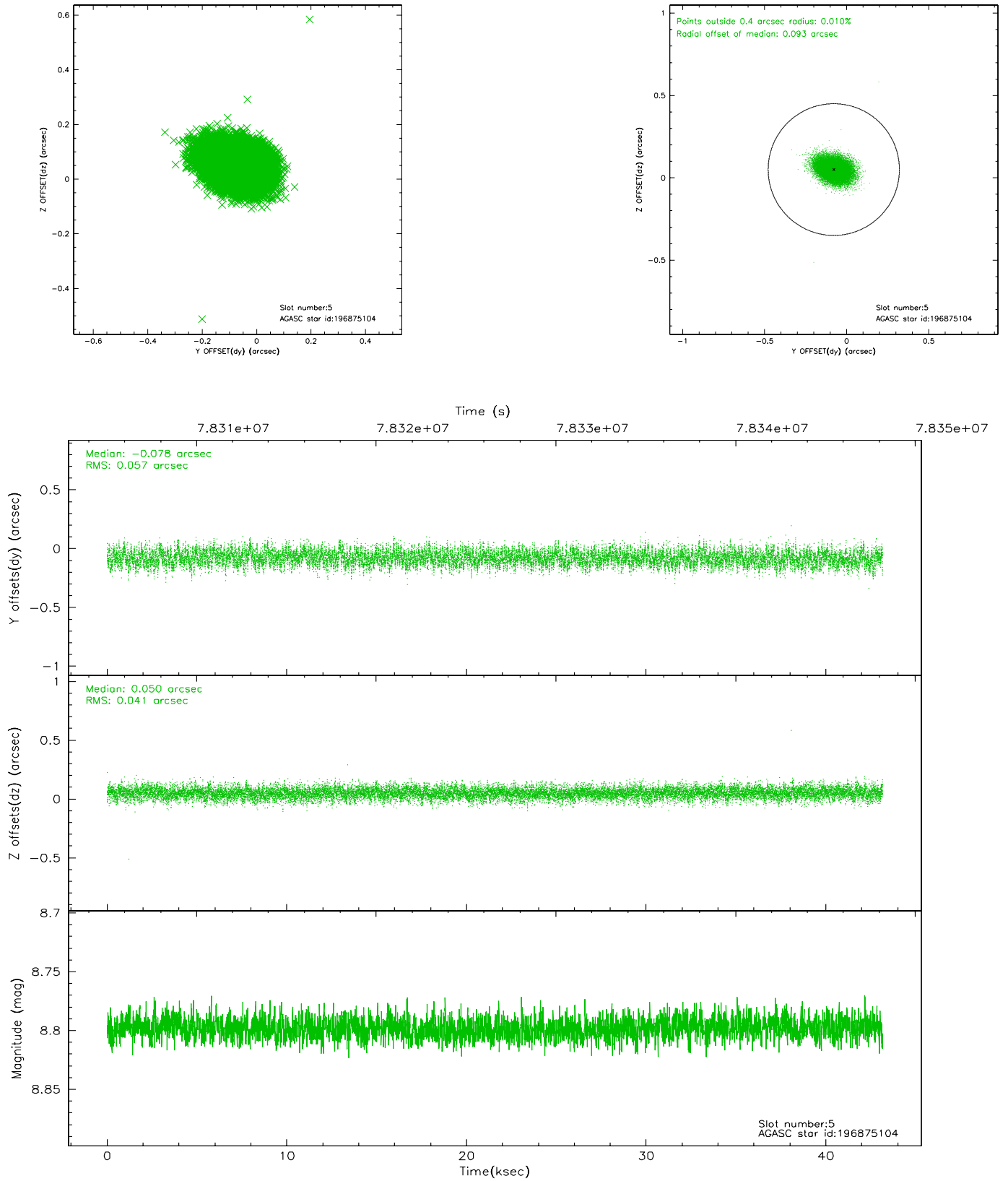
### 2.4.1 Slot 3



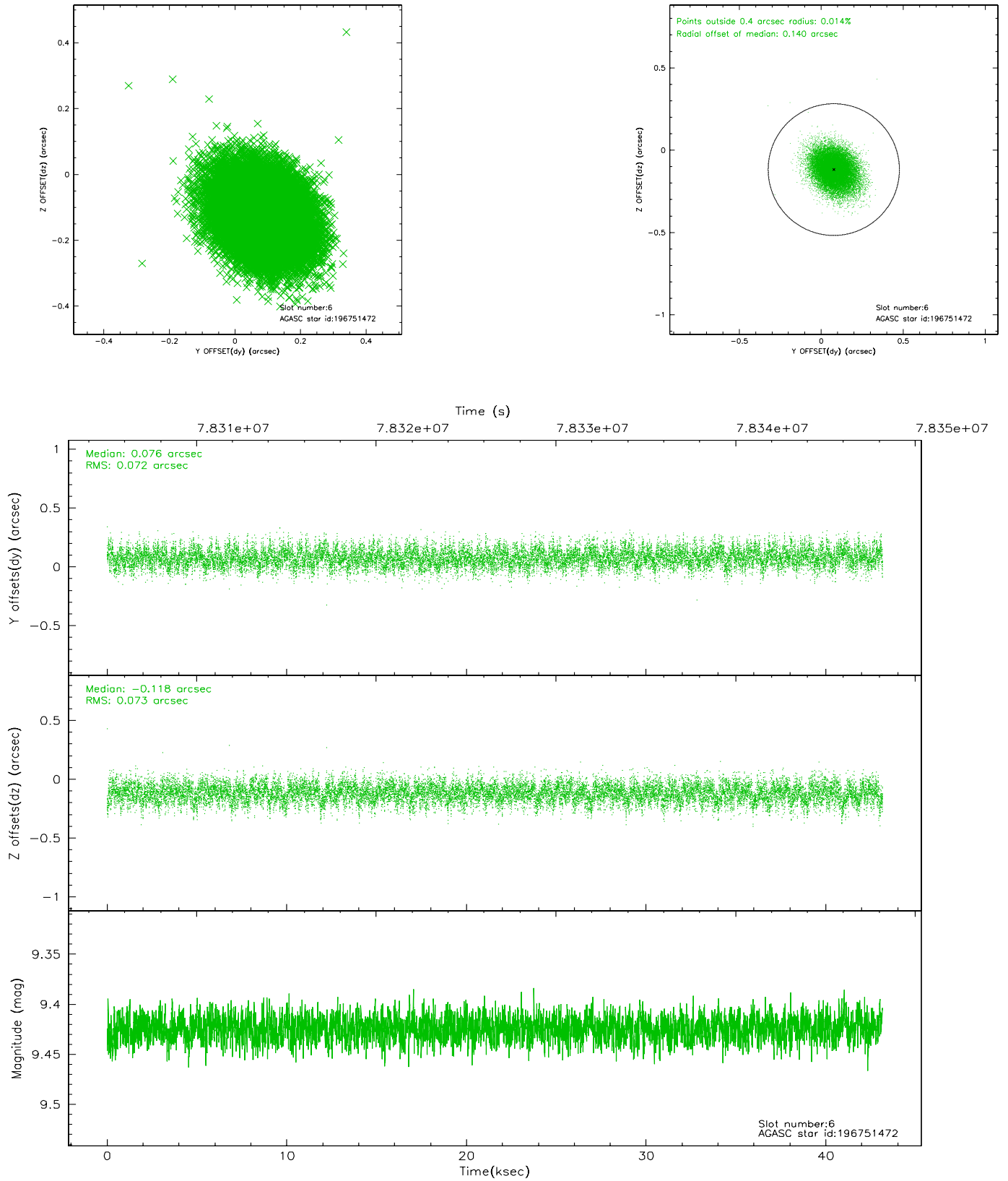
## 2.4.2 Slot 4



### 2.4.3 Slot 5

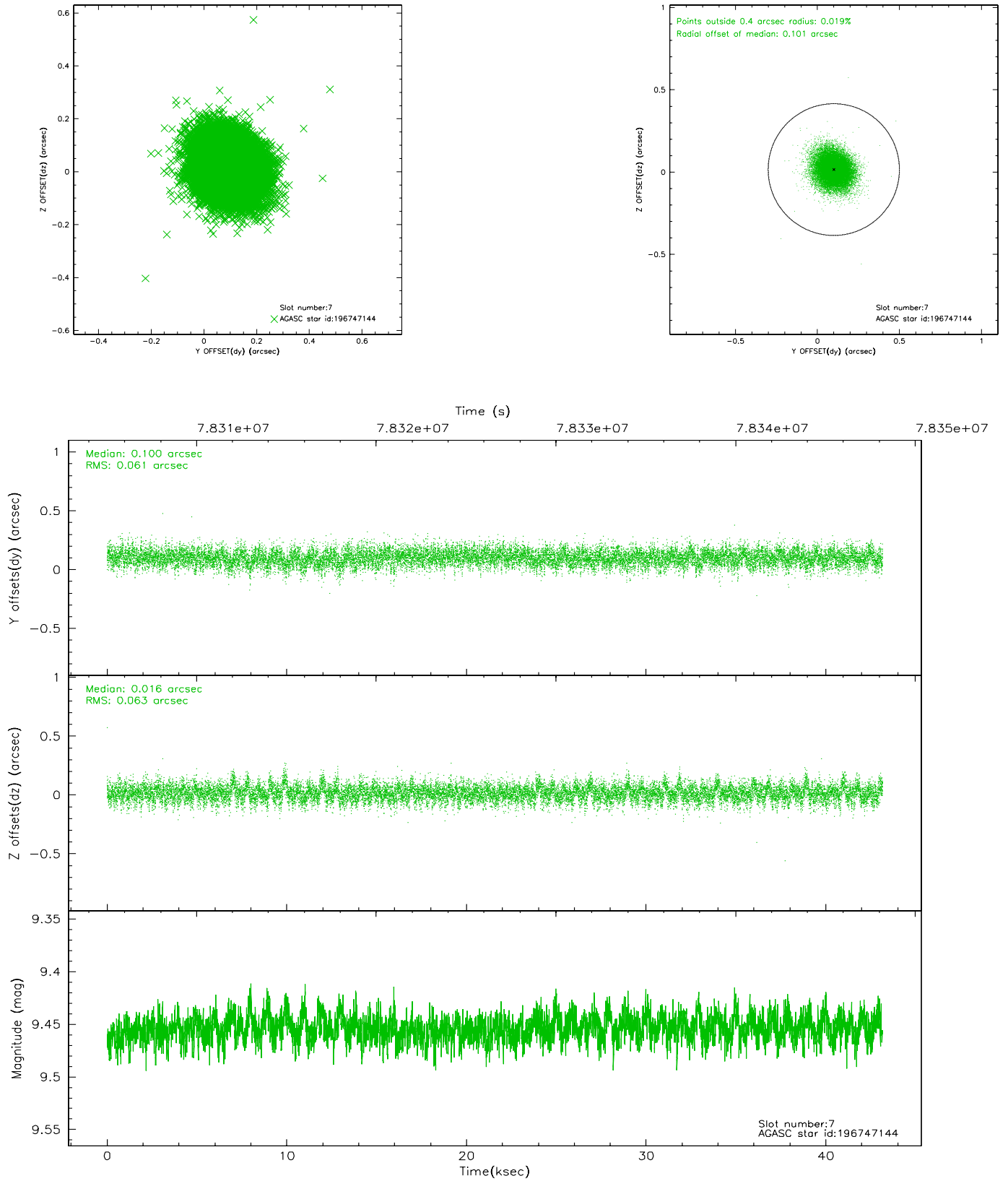


## 2.4.4 Slot 6



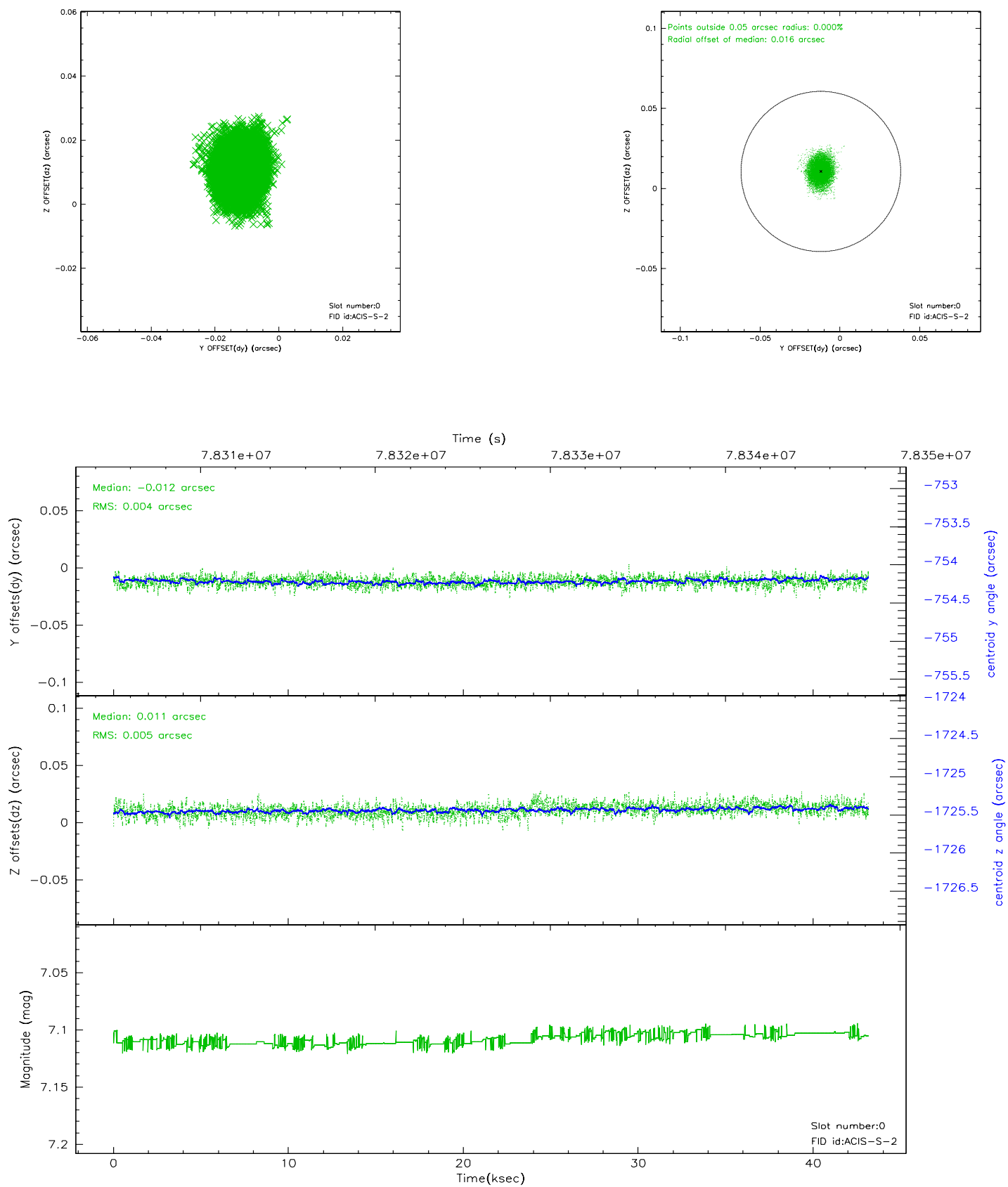


## 2.4.5 Slot 7

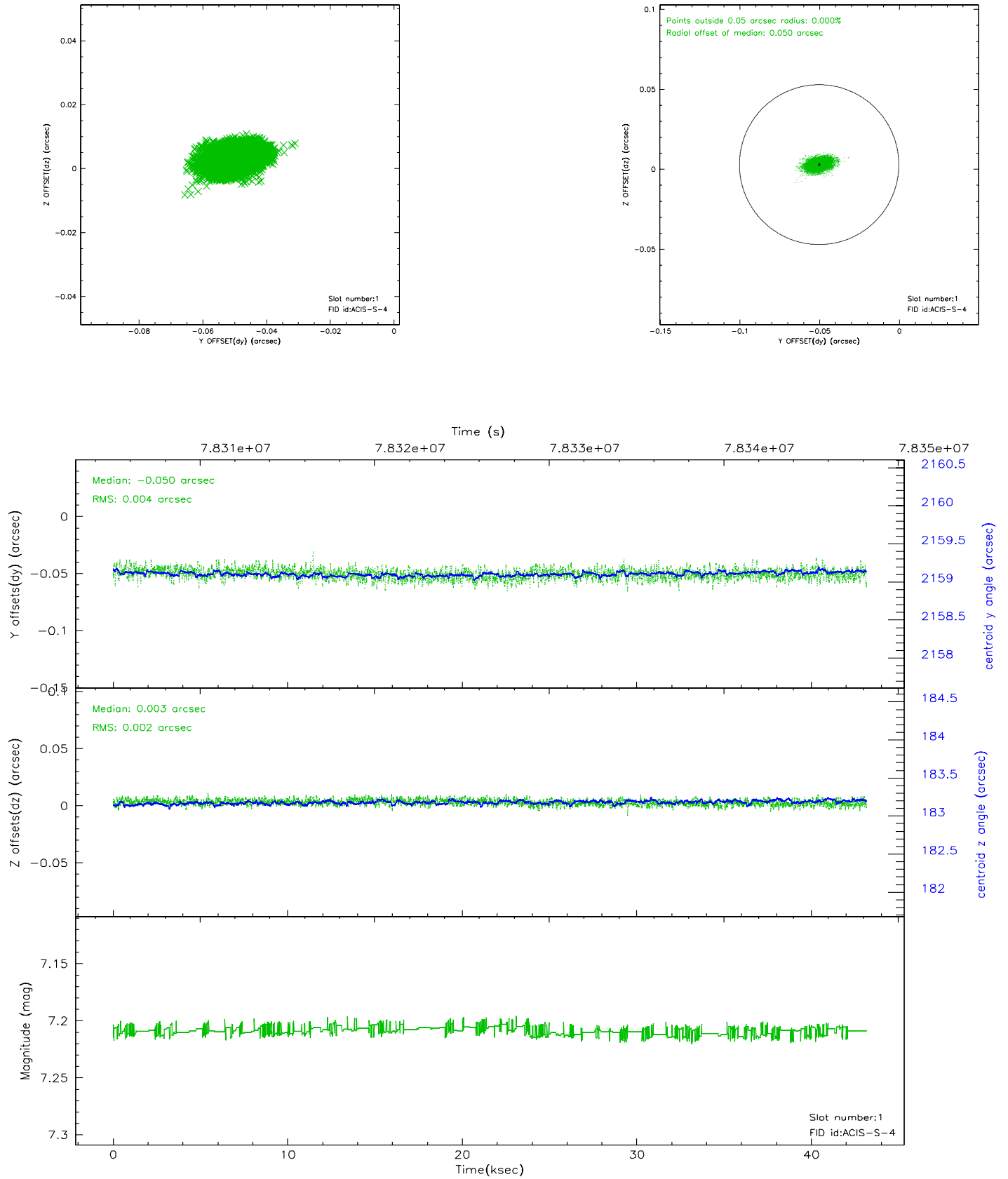


## 2.5 FID Slots

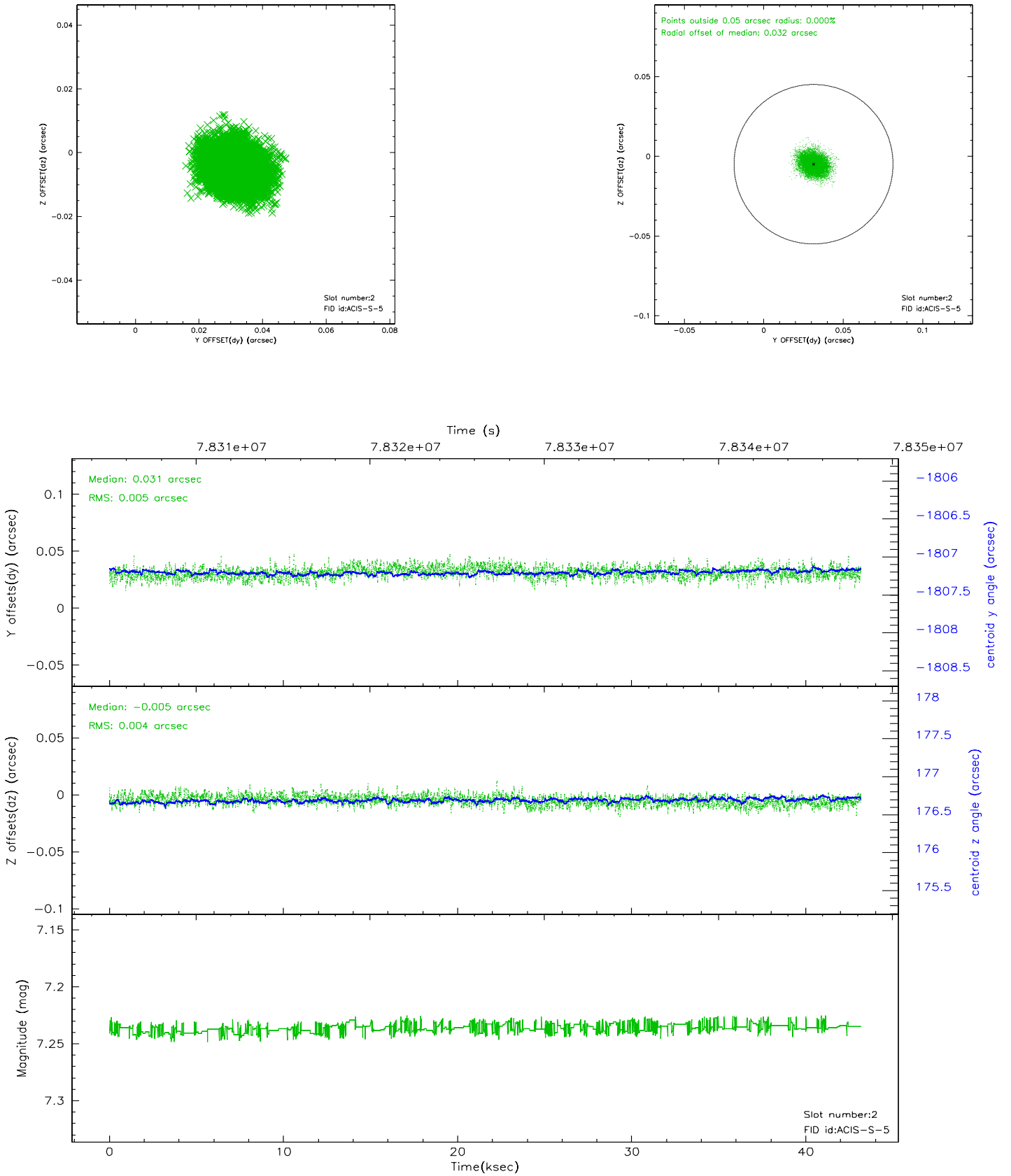
### 2.5.1 Slot 0



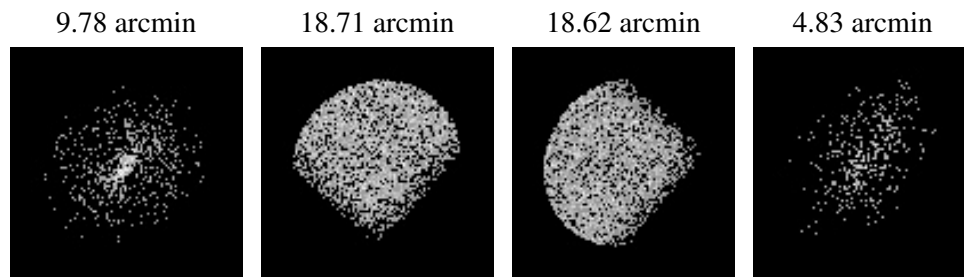
## 2.5.2 Slot 1



### 2.5.3 Slot 2



### 3 Point Sources



## A Summary

### A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2007.05.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	42.688

### A.2 Comments