

# V&V Reference Report

## L2 ASCDS Version : 7.6.7.1

Observation 6146 - L2 Version 001  
Chandra X-Ray Center

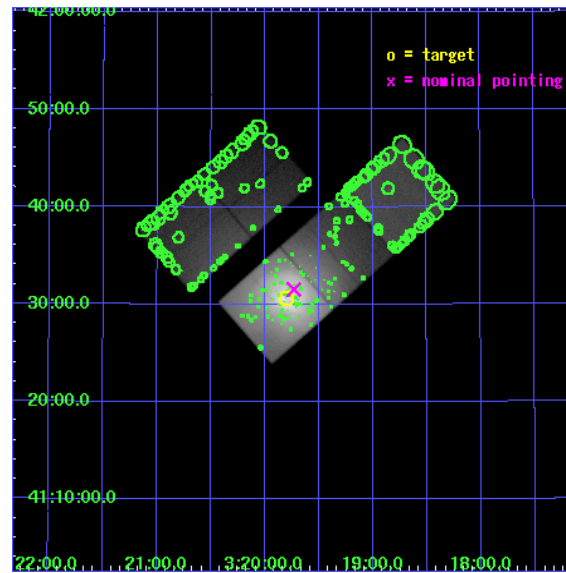
L2 Processing Date : Apr 15 2006

## 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

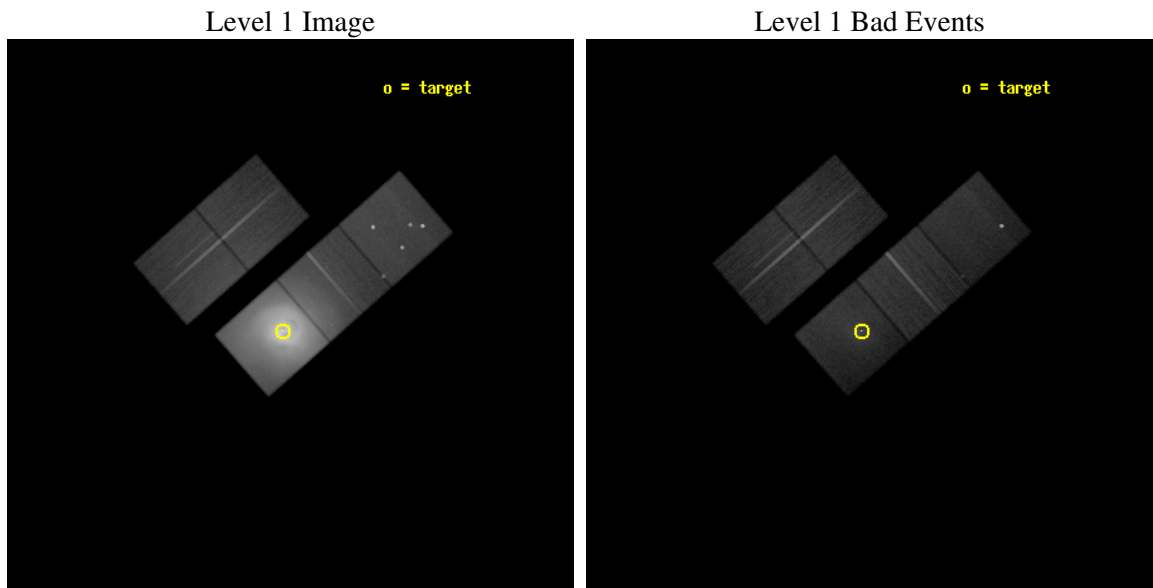
seq_num	800398
obs_id	6146
title	A Megasecond Image of the Core of the Perseus Cluster
observer	Prof Andrew Fabian
object	Abell 426
dtcycle	0
cycle	P
ra_targ	49.950833
dec_targ	41.511722
ra_nom	49.933000550233
dec_nom	41.525744936123
roll_nom	138.68987248027
revision	2
ontime	47752.399908185
livetime	47128.479648579
ontime2	47752.399908185
ontime3	47746.117917776
ontime5	47752.399908185
ontime6	47752.399908185
ontime7	47752.399908185
l2events	4679186



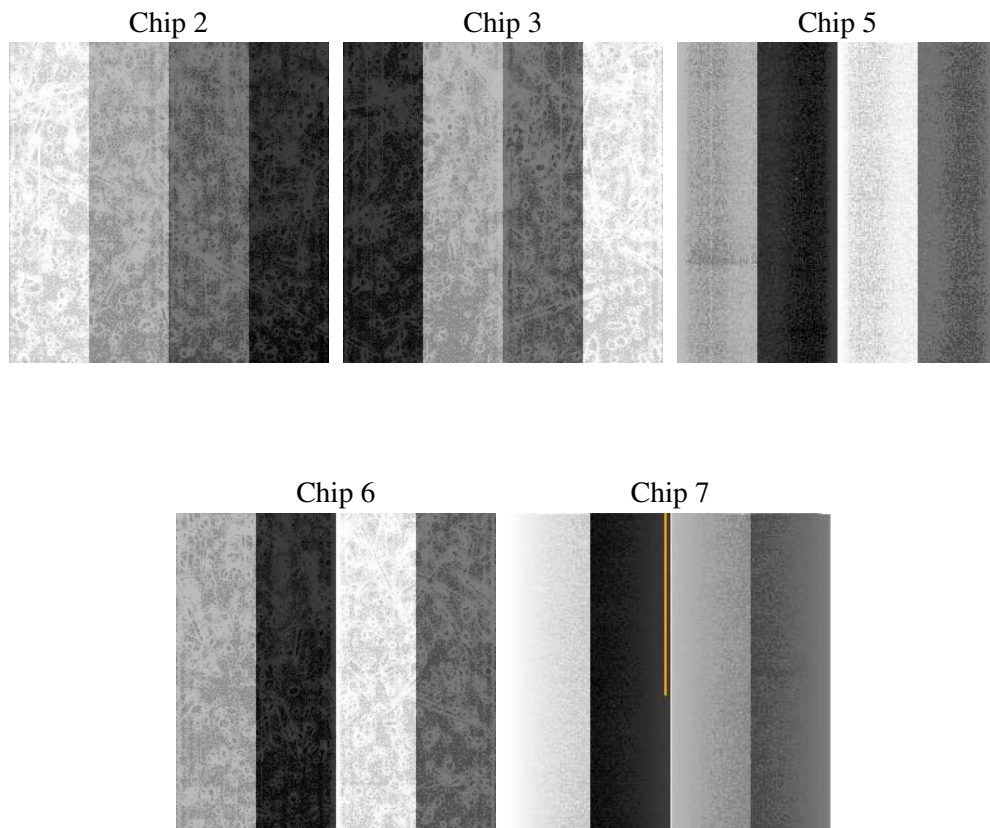
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0
ascdsver	7.6.7.1
caldbver	3.2.1
date	2006-04-15T11:30:11
revision	2

sched_exp_time	47983.190000
ontime	47759.108497709
ontime2	47759.108497709
ontime3	47752.8265073
ontime5	47759.108497709
ontime6	47759.108497709
ontime7	47759.108497709
l1events	6215691

### 2.1.4 Events

	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
level 1 events	436034	490196	543745	789701	3956015
rejected events	311468	291782	240696	308652	267614
rejected %	71%	59%	44%	39%	6%

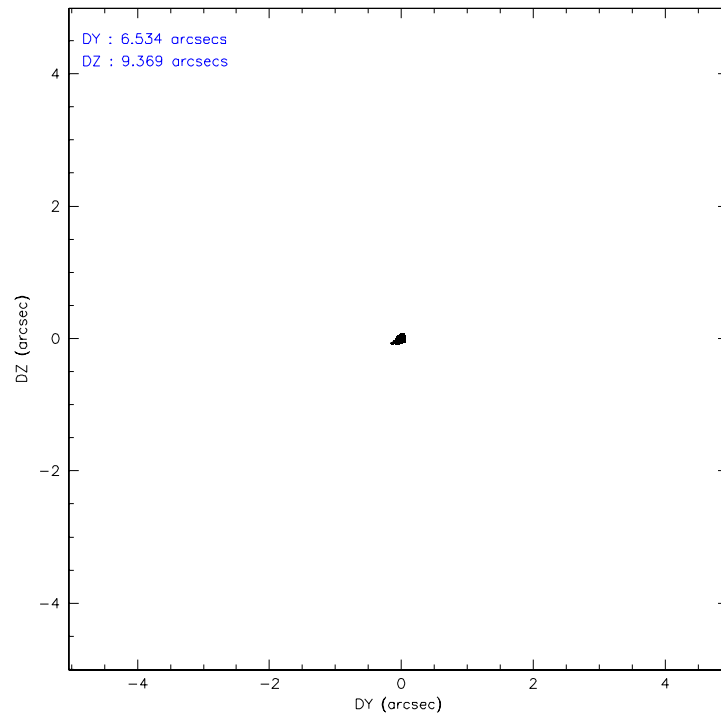
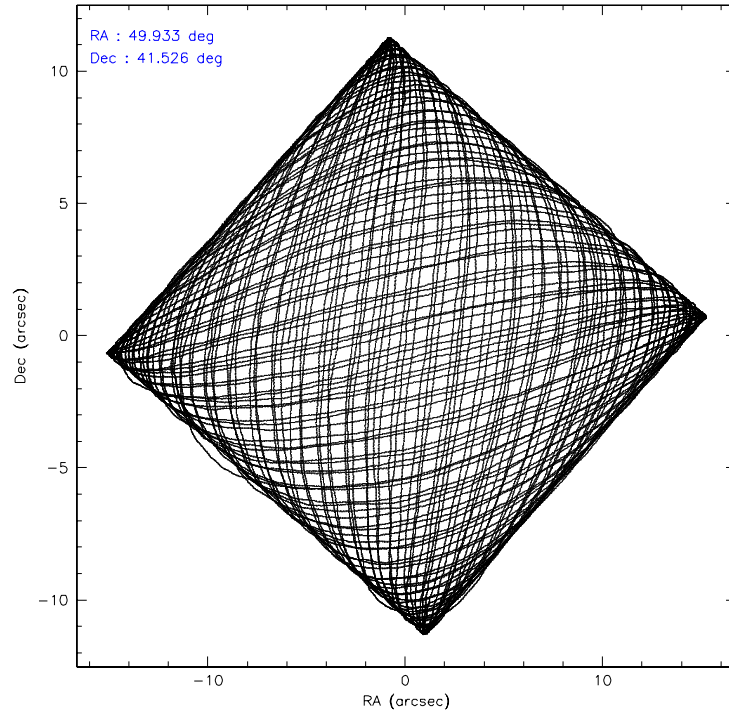
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
grade 0 events	86851	147218	54043	372084	914184
	19%	30%	9%	47%	23%
grade 1 events	573	885	290	1696	2333
	0%	0%	0%	0%	0%
grade 2 events	16549	23409	96365	53681	1059896
	3%	4%	17%	6%	26%
grade 3 events	6543	8916	10635	17714	397288
	1%	1%	1%	2%	10%
grade 4 events	6479	8709	9760	17670	388978
	1%	1%	1%	2%	9%
grade 5 events	10709	13022	24959	14365	54769
	2%	2%	4%	1%	1%
grade 6 events	8165	10190	132294	19962	928539
	1%	2%	24%	2%	23%
grade 7 events	300165	277847	215399	292529	210028
	68%	56%	39%	37%	5%

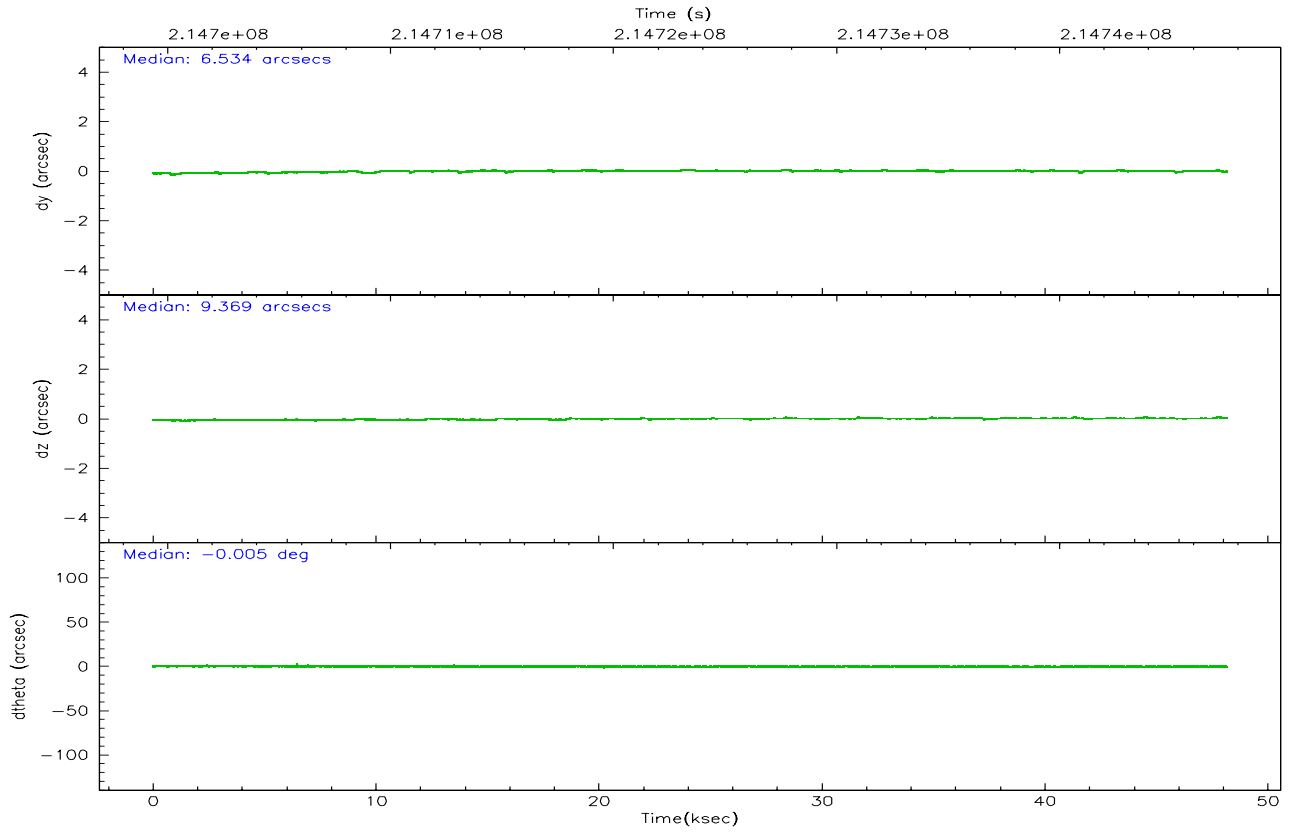
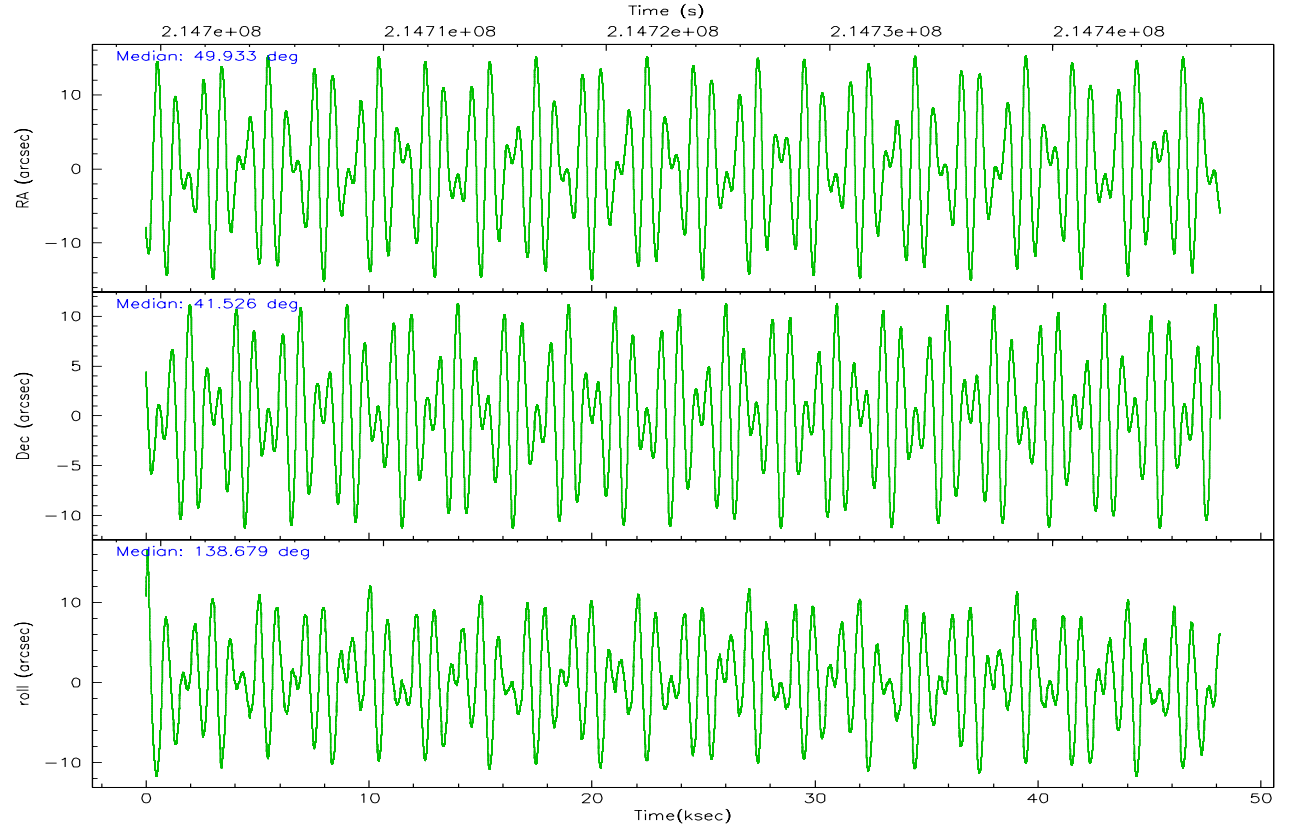


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-23567	ACIS-23567	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	On-chip summing requested	N	N
Observation mode	POINTING	POINTING	Subarray requested	NONE	NONE
Pointing RA	49.968755	49.93300055023283	Alternating exposures requested	N	N
Pointing Dec	41.520772	41.52574493612348	Primary exposure time	0.000000	3.1
Pointing Roll	138.509545	138.6898724802653			
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	214699530.184000	214699150.71981			
Observation start date	2004-10-20T22:44:26	2004-10-20T22:39:10			
Observation end time	214747513.184000	214747728.03449			
Observation end date	2004-10-21T12:04:09	2004-10-21T12:08:48			
Read mode	TIMED	TIMED			

## 2.3 Aspect



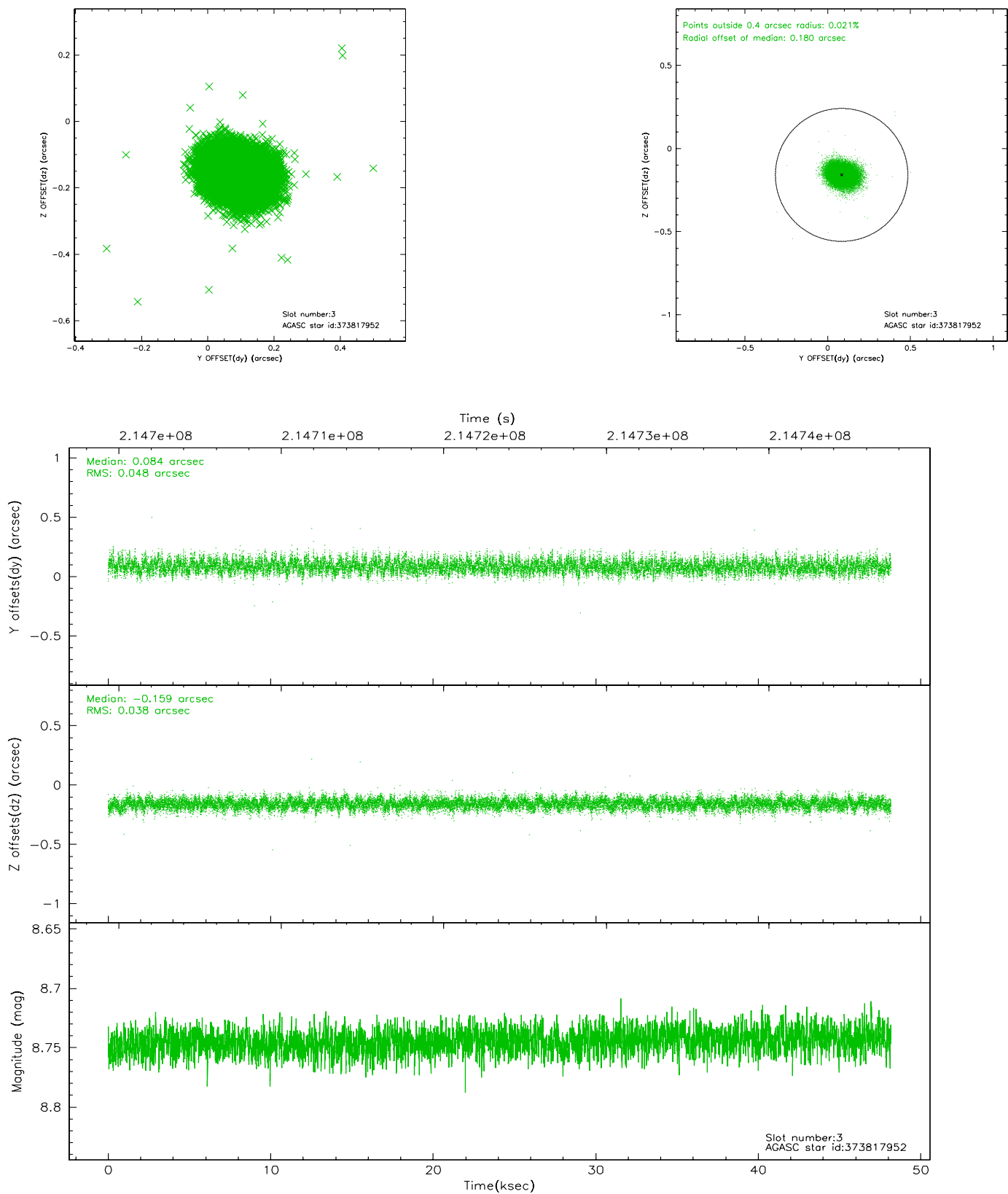


### Slot Statistics

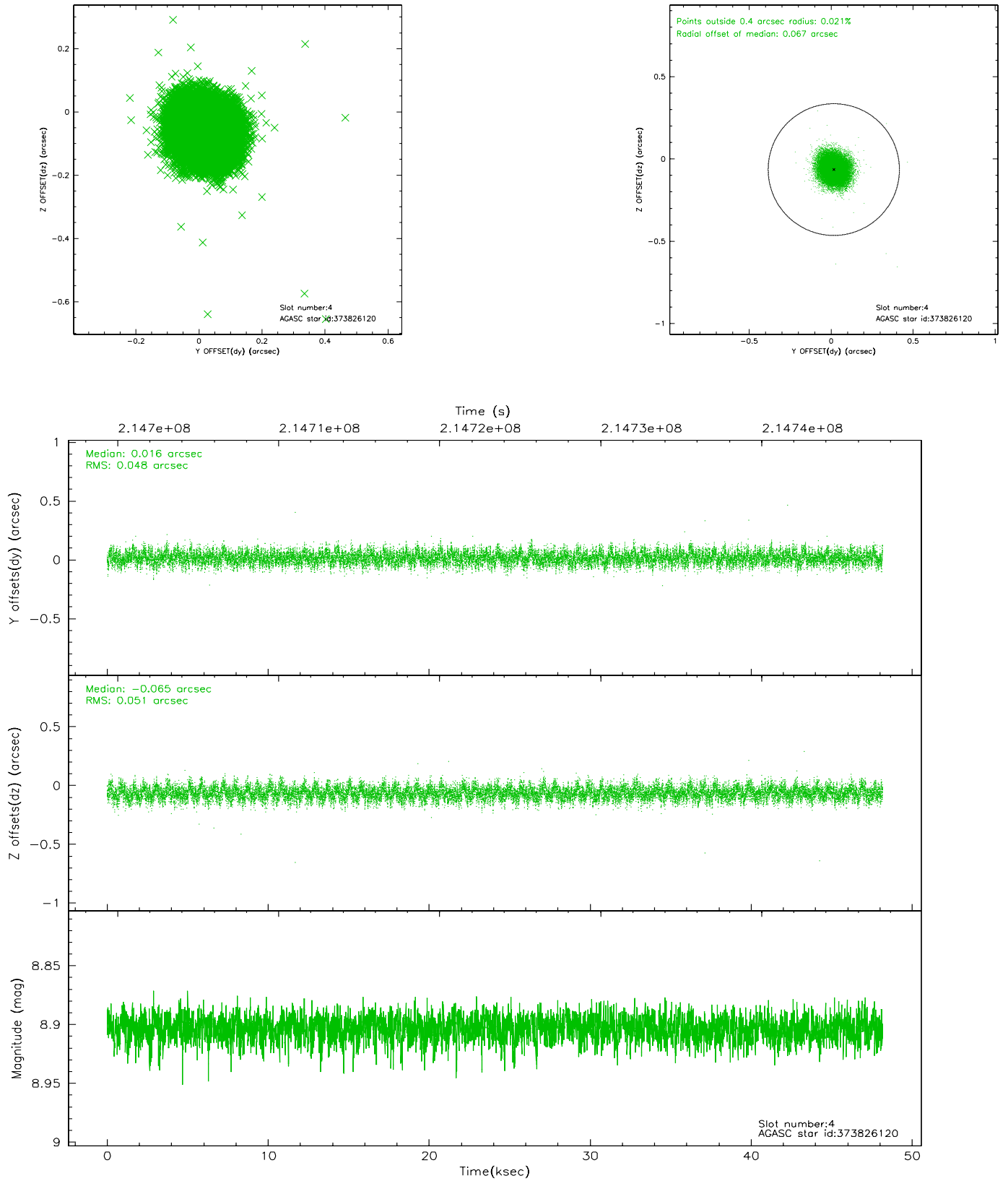
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	11747	-0.040	-0.012	0.006	0.011	0.000000	0.000000	-759.28	-1730.56
1	FID	ACIS-S-4	7.21	11749	0.039	0.022	0.005	0.008	0.000000	0.000000	2154.06	178.00
2	FID	ACIS-S-5	7.23	11749	-0.030	-0.002	0.006	0.010	0.000000	0.000000	-1812.15	171.59
3	GUIDE	373817952	8.74	23488	0.084	-0.159	0.064	0.106	49.913424	40.978510	-1180.76	1561.68
4	GUIDE	373826120	8.90	23487	0.016	-0.065	0.075	0.120	49.738165	41.186341	-329.24	1315.19
5	GUIDE	374352576	9.71	23457	0.003	0.003	0.099	0.163	48.746850	41.454001	2325.48	2347.46
6	GUIDE	374352808	8.77	23480	-0.105	0.116	0.067	0.109	49.969955	42.208621	1638.58	-1856.35
7	GUIDE	376057824	8.35	23494	-0.004	0.105	0.069	0.112	50.665569	41.926280	-425.48	-2335.46

## 2.4 Star Slots

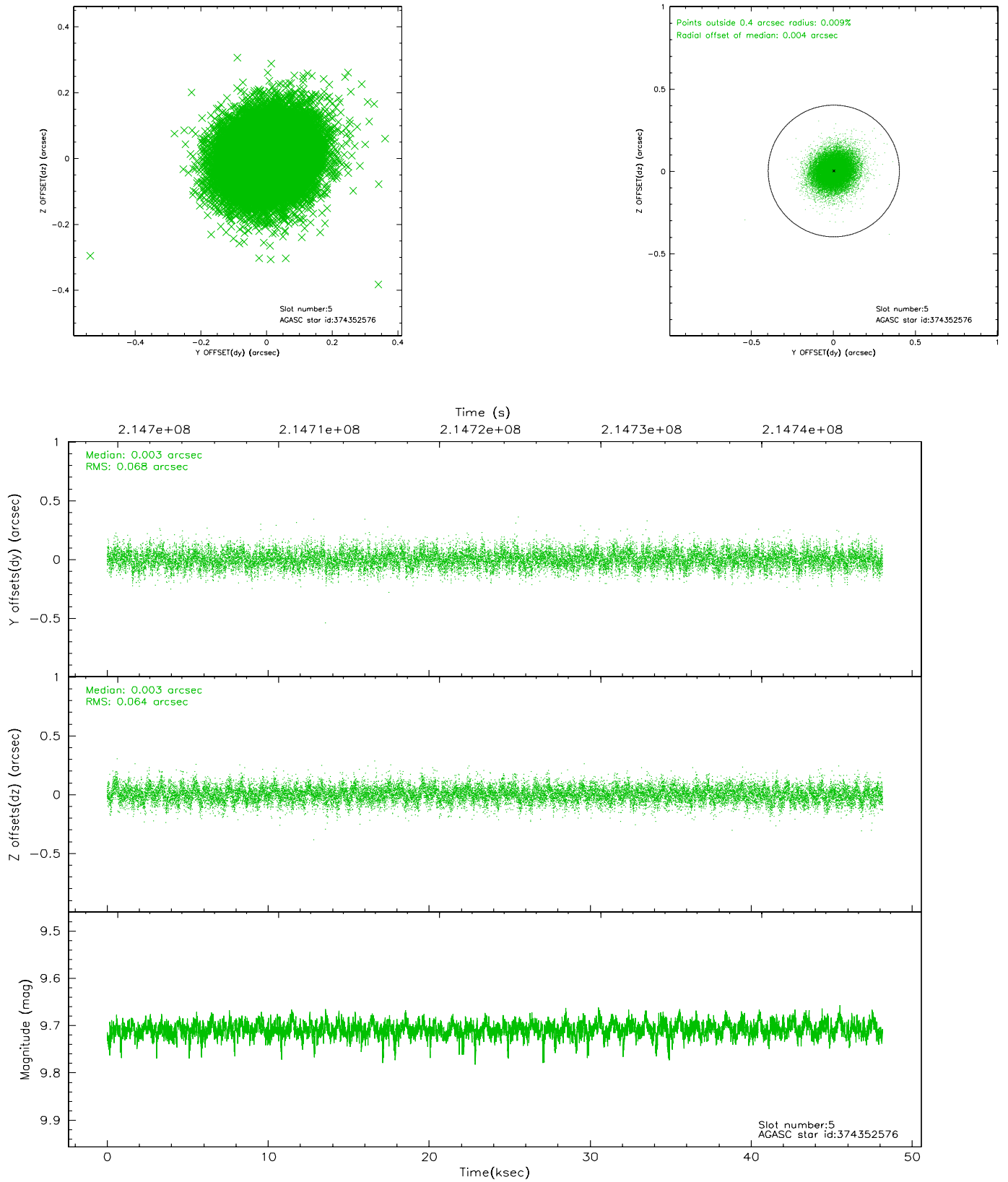
### 2.4.1 Slot 3



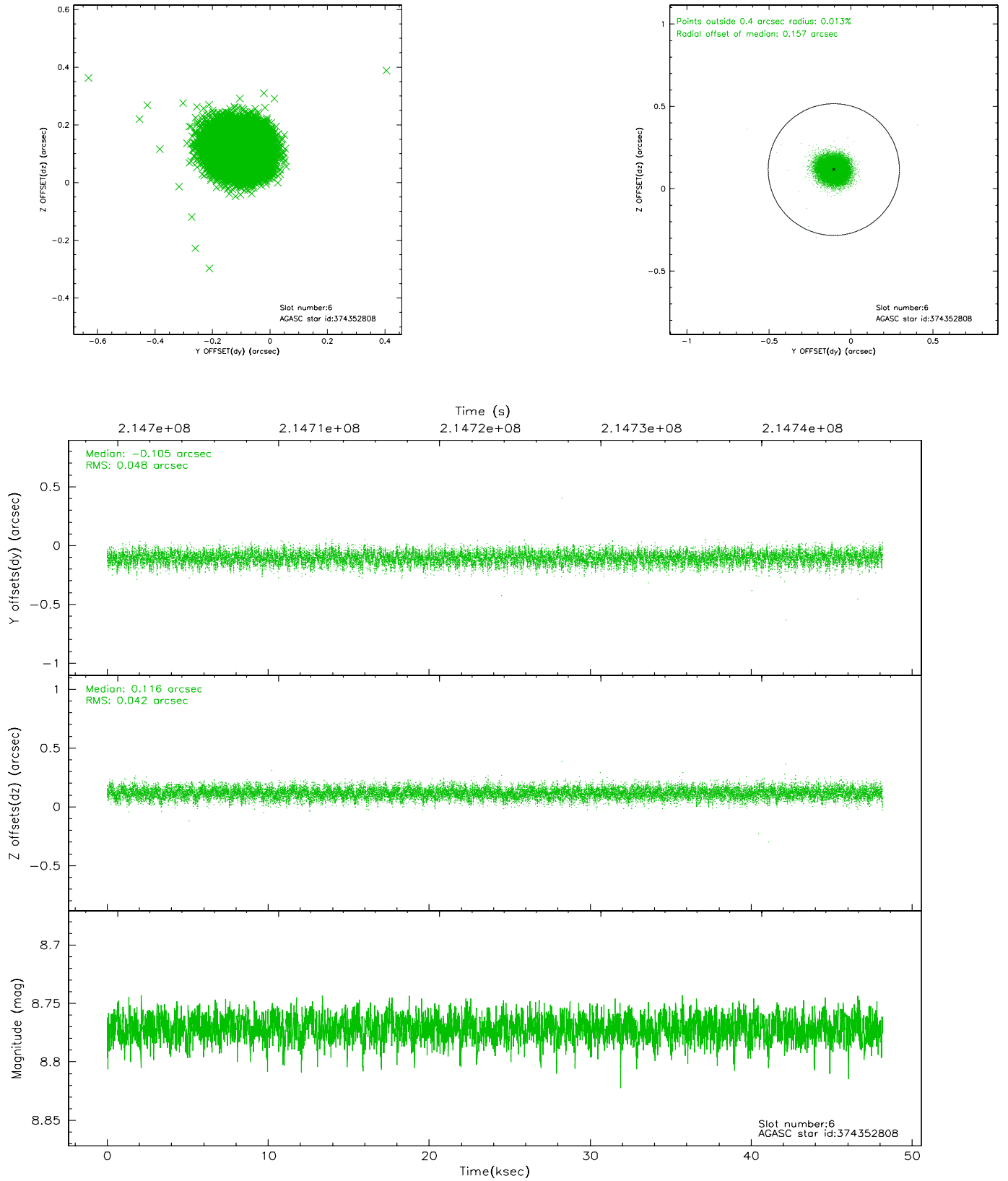
## 2.4.2 Slot 4



### 2.4.3 Slot 5

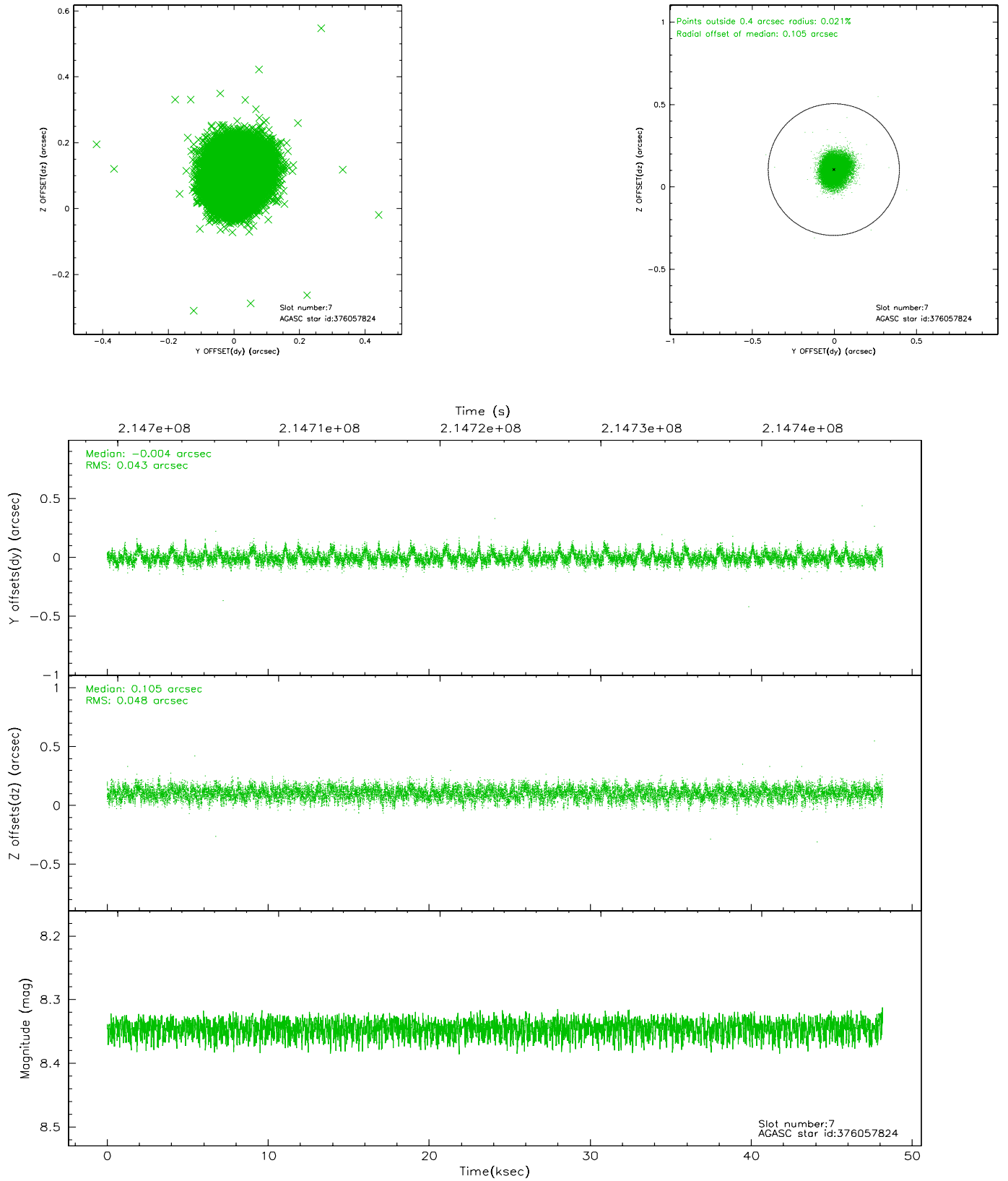


## 2.4.4 Slot 6



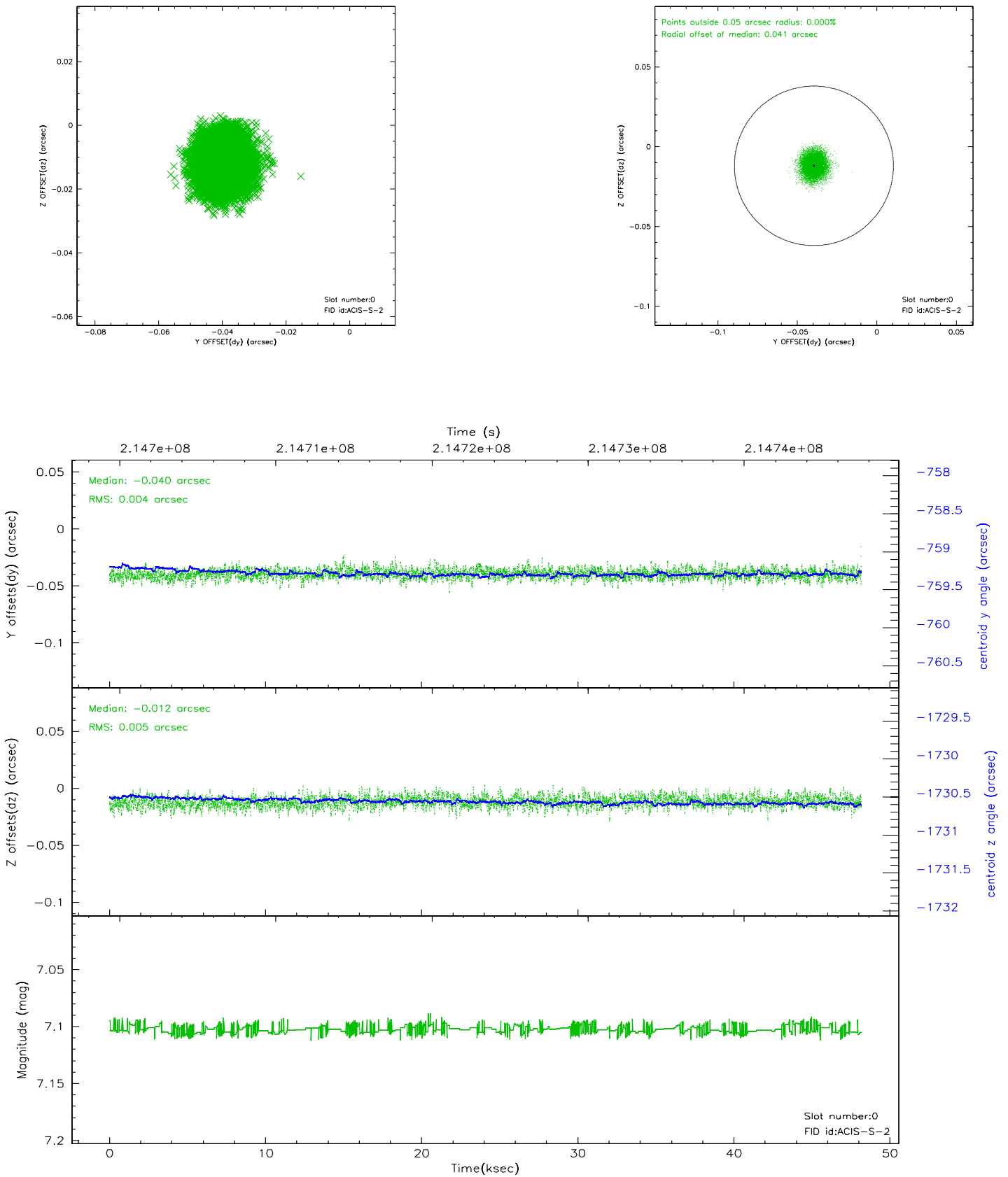


## 2.4.5 Slot 7

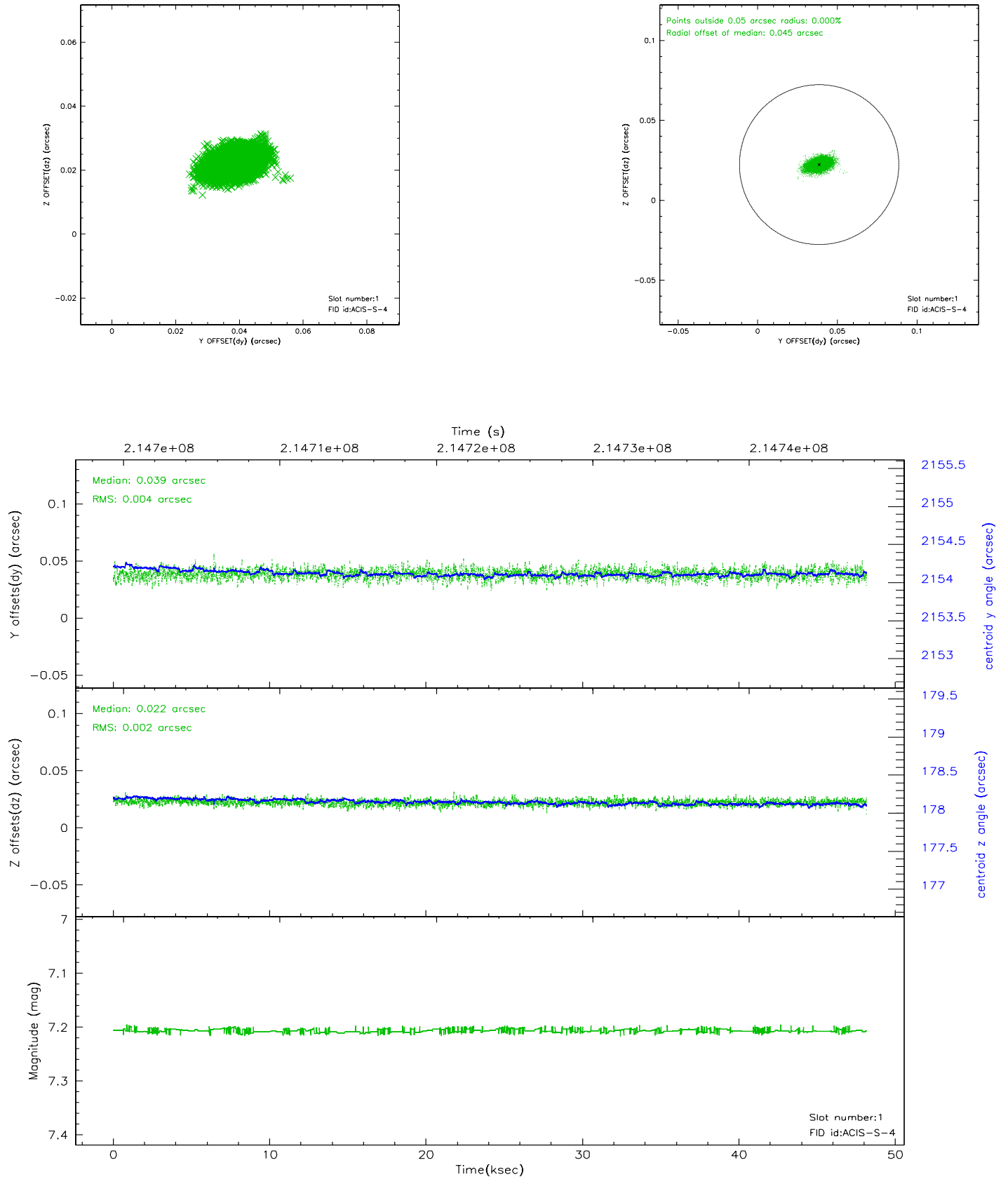


## 2.5 FID Slots

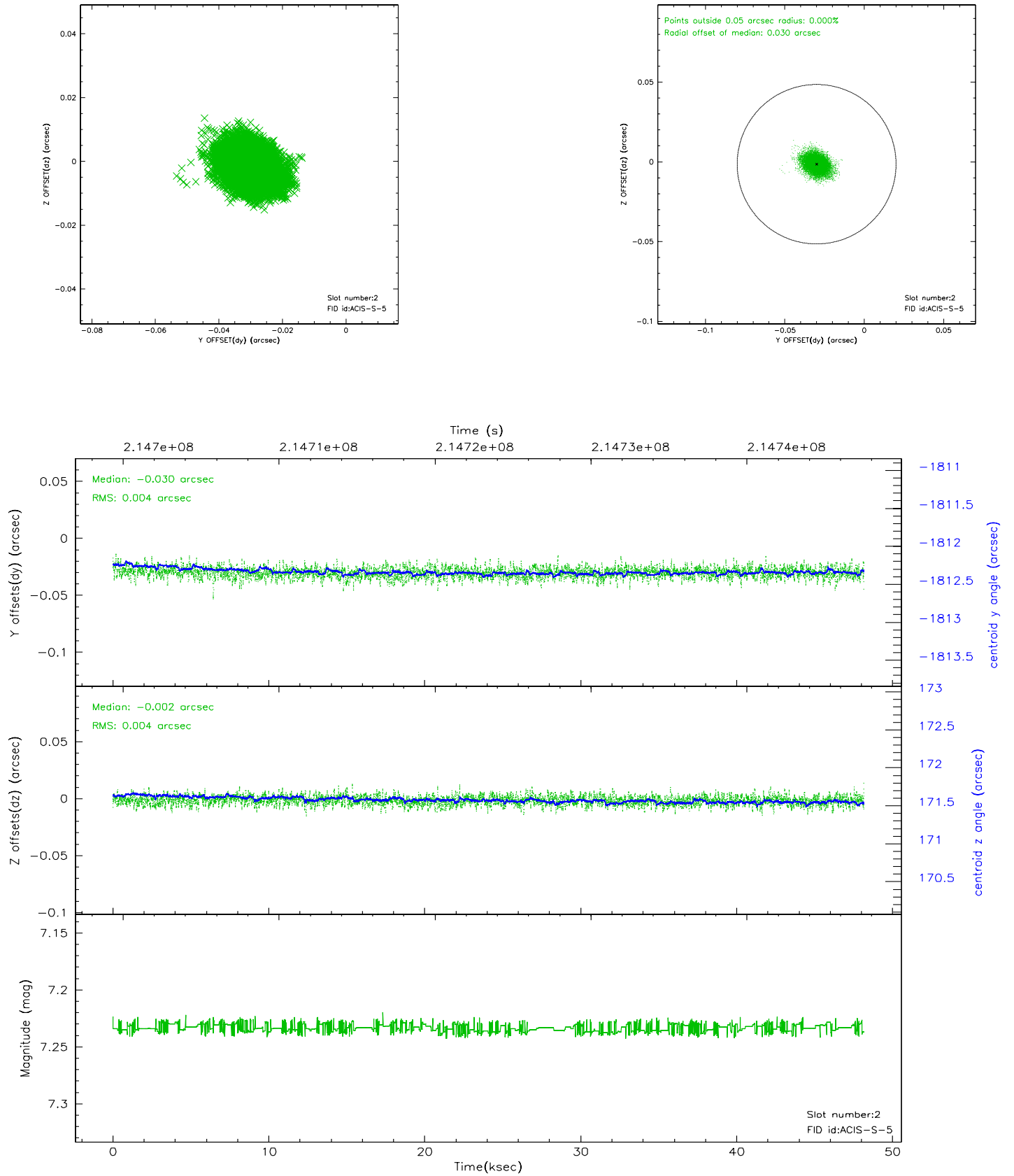
### 2.5.1 Slot 0



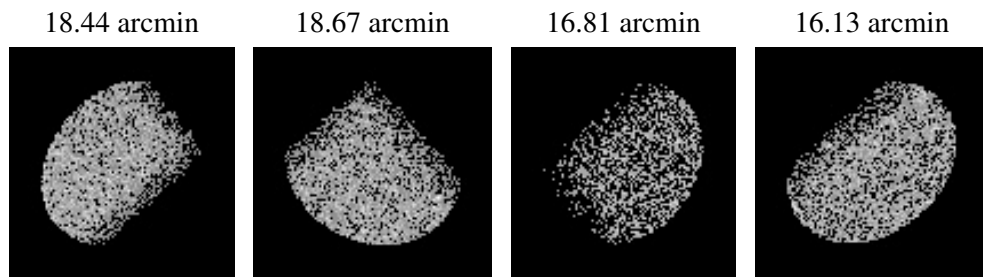
## 2.5.2 Slot 1



### 2.5.3 Slot 2



### 3 Point Sources



## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2006.04.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	47.752

### A.2 Comments