

# V&V Reference Report

## L2 ASCDS Version : 7.6.10

Observation 3013 - L2 Version 001  
Chandra X-Ray Center

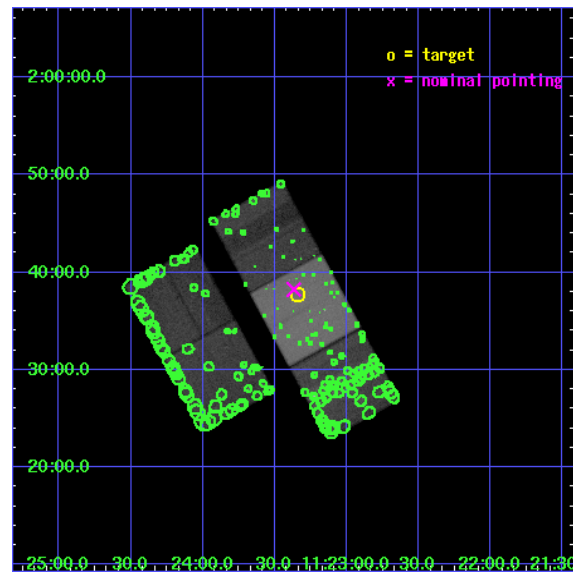
L2 Processing Date : Jan 18 2007

## 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

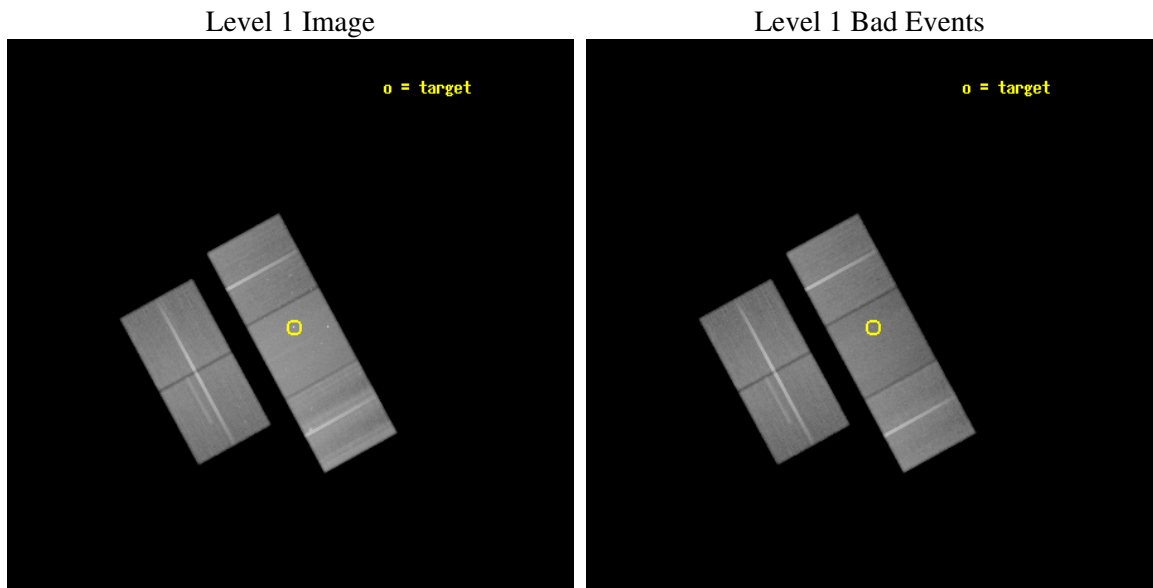
seq_num	700452
obs_id	3013
title	ORIENTATION VS. EVOLUTION FROM A UNIQUE BALQSO
observer	Dr. PAUL GREEN
object	UM425
dtcycle	0
cycle	P
ra_targ	170.835833
dec_targ	1.629778
ra_nom	170.84193152838
dec_nom	1.6373489509507
roll_nom	61.386991262795
revision	2
ontime	111621.65882513
livetime	110163.23967791
ontime2	111612.23591445
ontime3	111621.65882513
ontime6	111612.23589455
ontime7	111621.65882513
ontime8	111621.65882513
l2events	833219



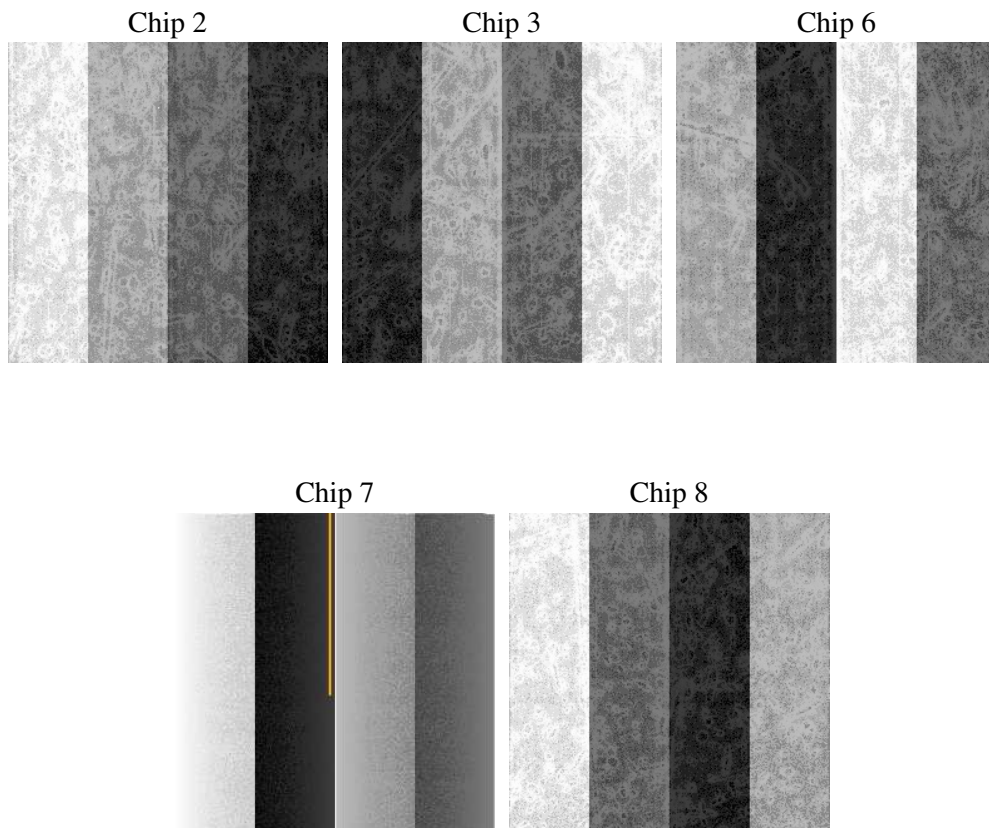
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0
ascdsver	7.6.10
caldsver	3.3.0
date	2007-01-18T07:49:18
revision	2

sched_exp_time	111511.274000
ontime	111621.65882513
ontime2	111612.23591445
ontime3	111621.65882513
ontime6	111612.23589455
ontime7	111621.65882513
ontime8	111621.65882513
ll events	4500005

### 2.1.4 Events

	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	778585	785699	815642	1014841	1105238
rejected events	673786	680500	704977	582709	784770
rejected %	86%	86%	86%	57%	71%

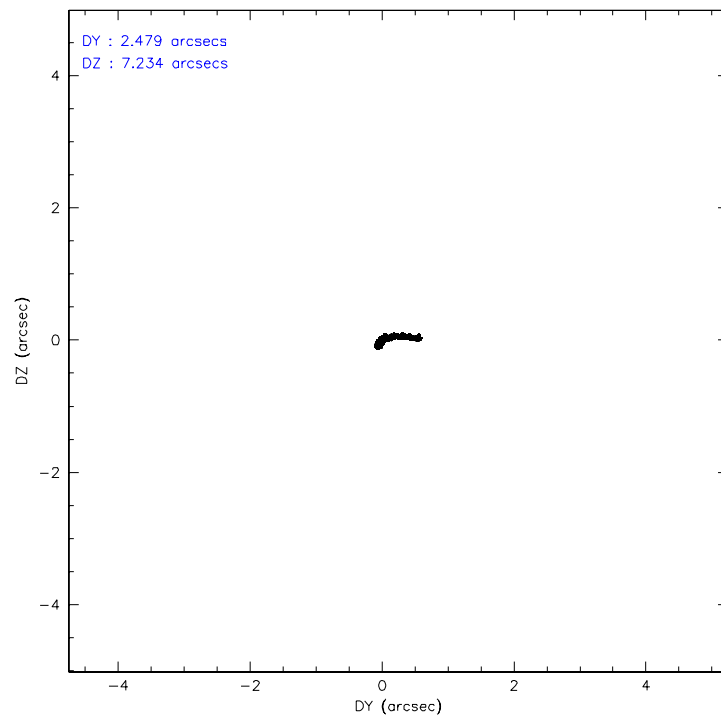
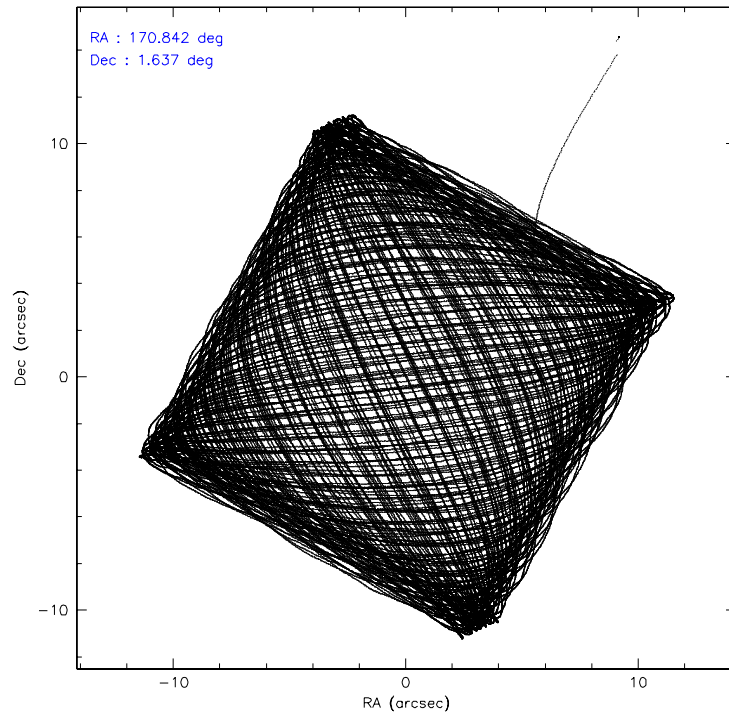
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	44921	43614	45839	44175	113477
	5%	5%	5%	4%	10%
grade 1 events	389	371	368	1010	953
	0%	0%	0%	0%	0%
grade 2 events	24545	25004	26013	86293	58284
	3%	3%	3%	8%	5%
grade 3 events	8097	8529	9094	39586	44214
	1%	1%	1%	3%	4%
grade 4 events	8669	8563	9016	39187	39603
	1%	1%	1%	3%	3%
grade 5 events	25672	29480	32813	95307	42289
	3%	3%	4%	9%	3%
grade 6 events	19410	20362	21694	226048	68053
	2%	2%	2%	22%	6%
grade 7 events	646882	649776	670805	483235	738365
	83%	82%	82%	47%	66%

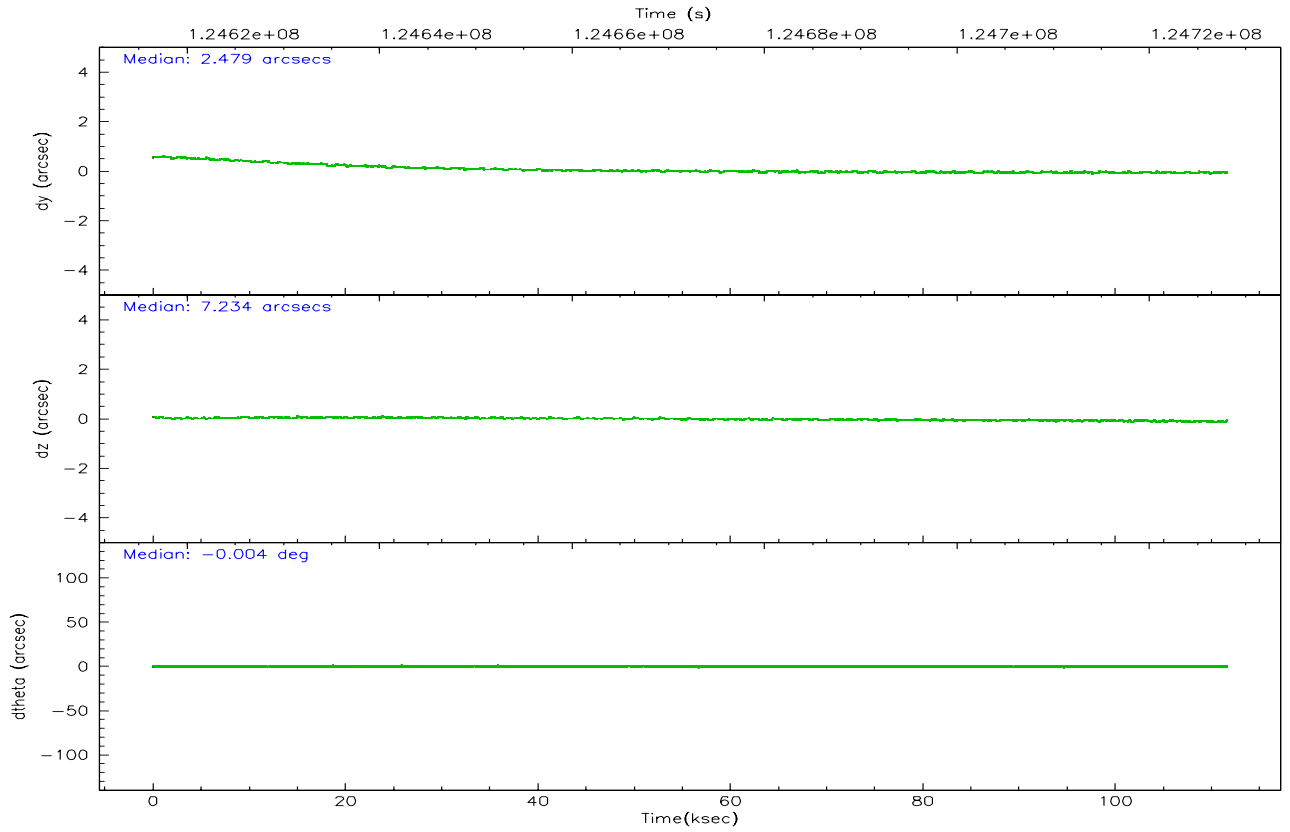
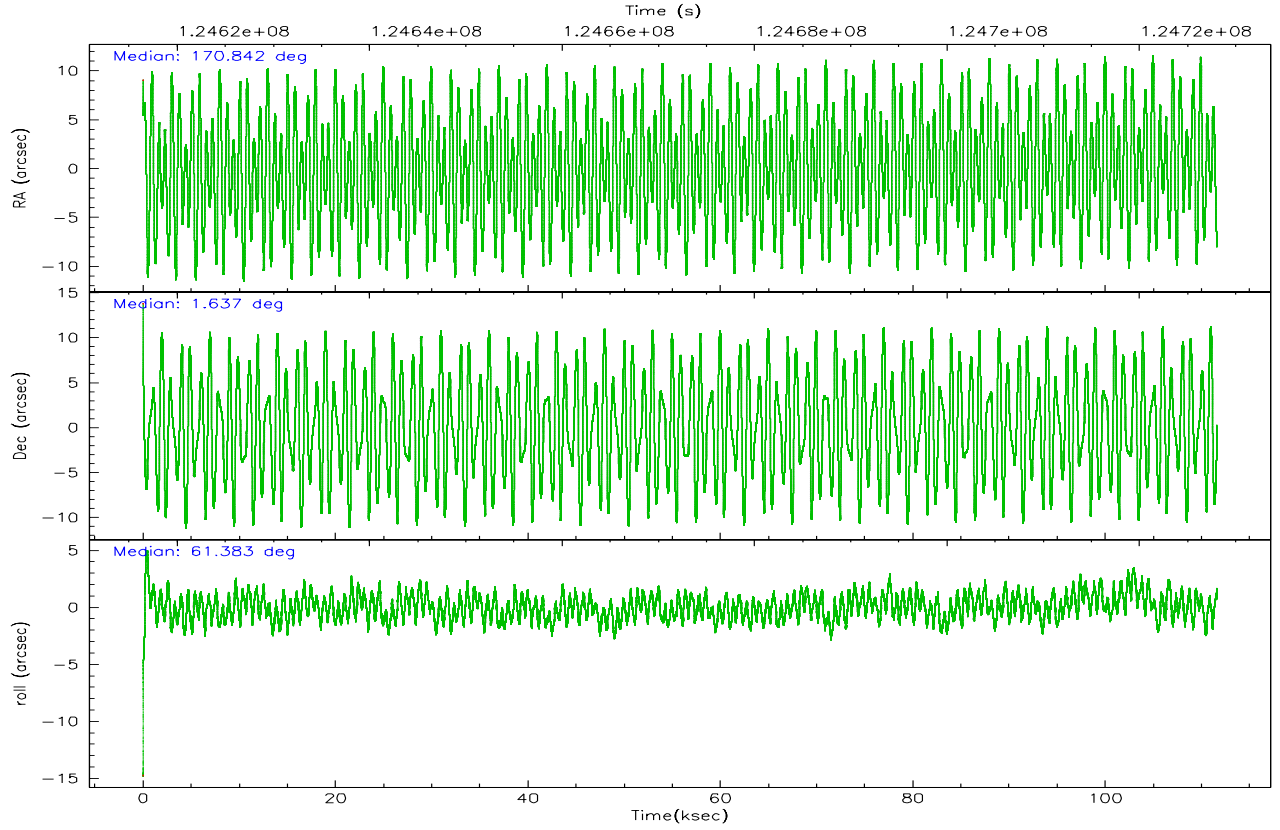


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-23678	ACIS-23678	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	170.842918	170.8419315283809	Subarray requested	NONE	NONE
Pointing Dec	1.610110	1.637348950950749	Alternating exposures requested	N	N
Pointing Roll	61.230341	61.38699126279489	Primary exposure time	0.000000	3.1
Window start time	124329664.184000	124329664.184000			
Window stop time	125539264.184000	125539264.184000			
SIM focus pos (mm)	-0.684267	-0.6828225247311905			
SIM defocus (mm)	0	0.001444936568705701			
SIM translation stage pos (mm)	-190.132523	-190.1400660498719			
SIM translation stage offset (mm)	0	0.00754346686406393			
Observation start time	124616570.184000	124615188.68458			
Observation start date	2001-12-13T07:41:46	2001-12-13T07:19:48			
Observation end time	124728082.184000	124728396.35161			
Observation end date	2001-12-14T14:40:18	2001-12-14T14:46:36			
Read mode	TIMED	TIMED			

## 2.3 Aspect



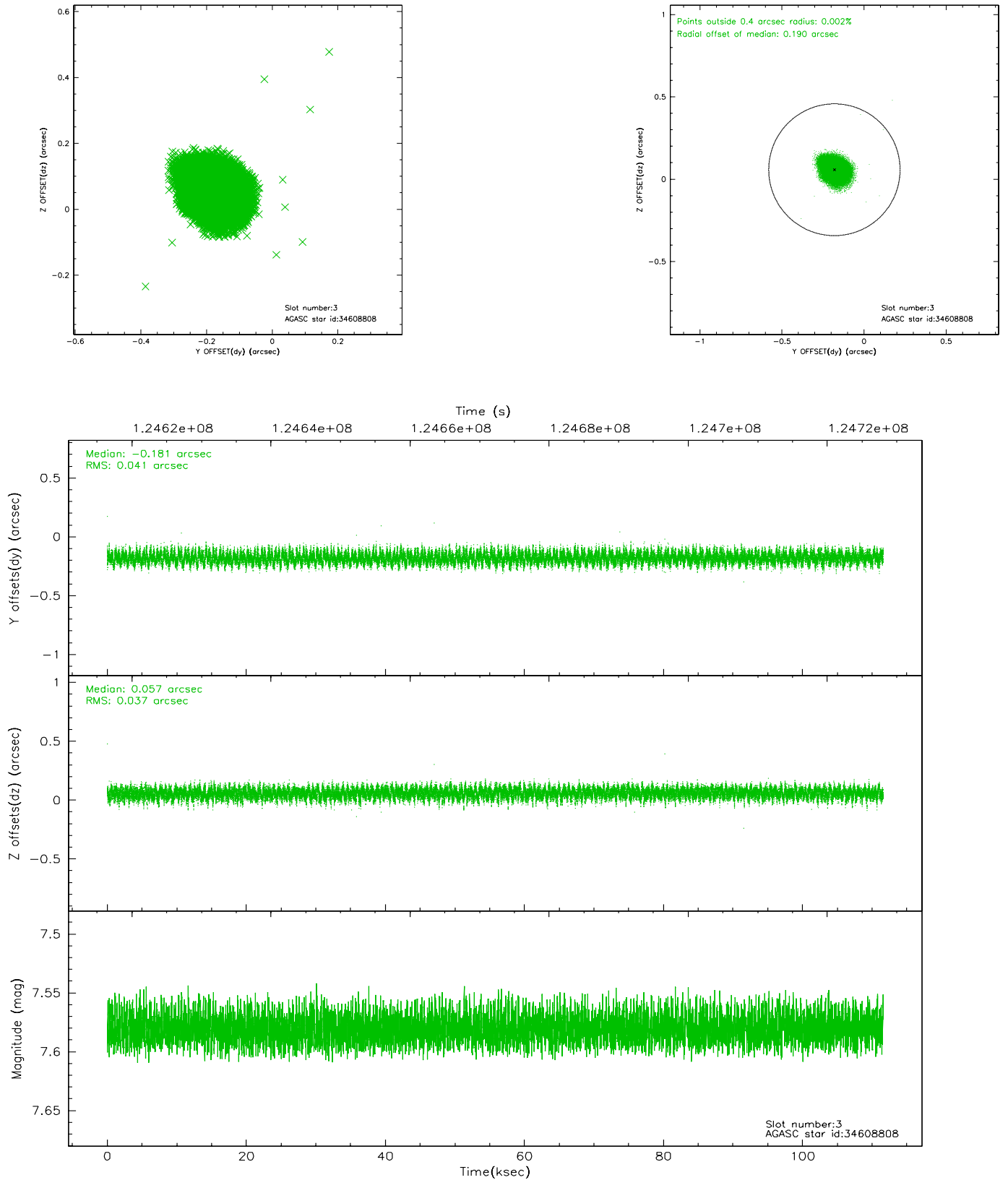


### Slot Statistics

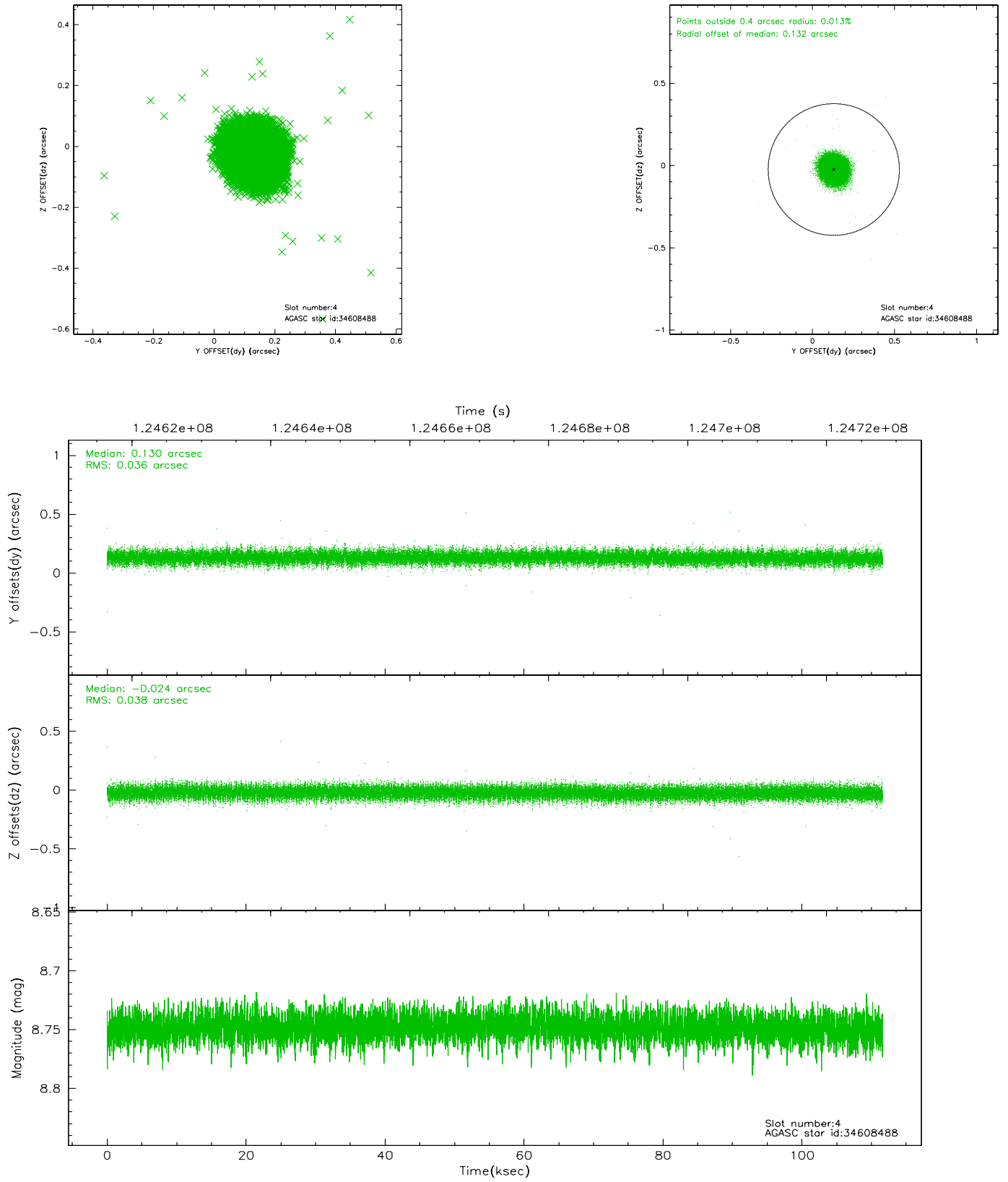
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	27225	-0.001	0.029	0.007	0.012	0.000000	0.000000	-755.20	-1728.36
1	FID	ACIS-S-4	7.20	27222	-0.087	-0.007	0.006	0.012	0.000000	0.000000	2158.05	180.17
2	FID	ACIS-S-5	7.24	27224	0.057	-0.013	0.008	0.017	0.000000	0.000000	-1808.10	173.74
3	GUIDE	34608808	7.58	54448	-0.181	0.057	0.060	0.095	171.187964	2.096543	2132.29	-244.89
4	GUIDE	34608488	8.75	54435	0.130	-0.024	0.056	0.091	171.107167	1.917770	1428.55	-300.10
5	GUIDE	34608640	8.88	54427	-0.139	0.078	0.074	0.117	171.454140	1.872320	1886.12	-1472.97
6	GUIDE	34604832	8.32	54435	0.164	0.119	0.062	0.097	171.211441	1.245888	-510.67	-1793.46
7	GUIDE	34608024	9.70	54402	0.024	-0.231	0.109	0.178	170.685165	2.007396	980.33	1185.81

## 2.4 Star Slots

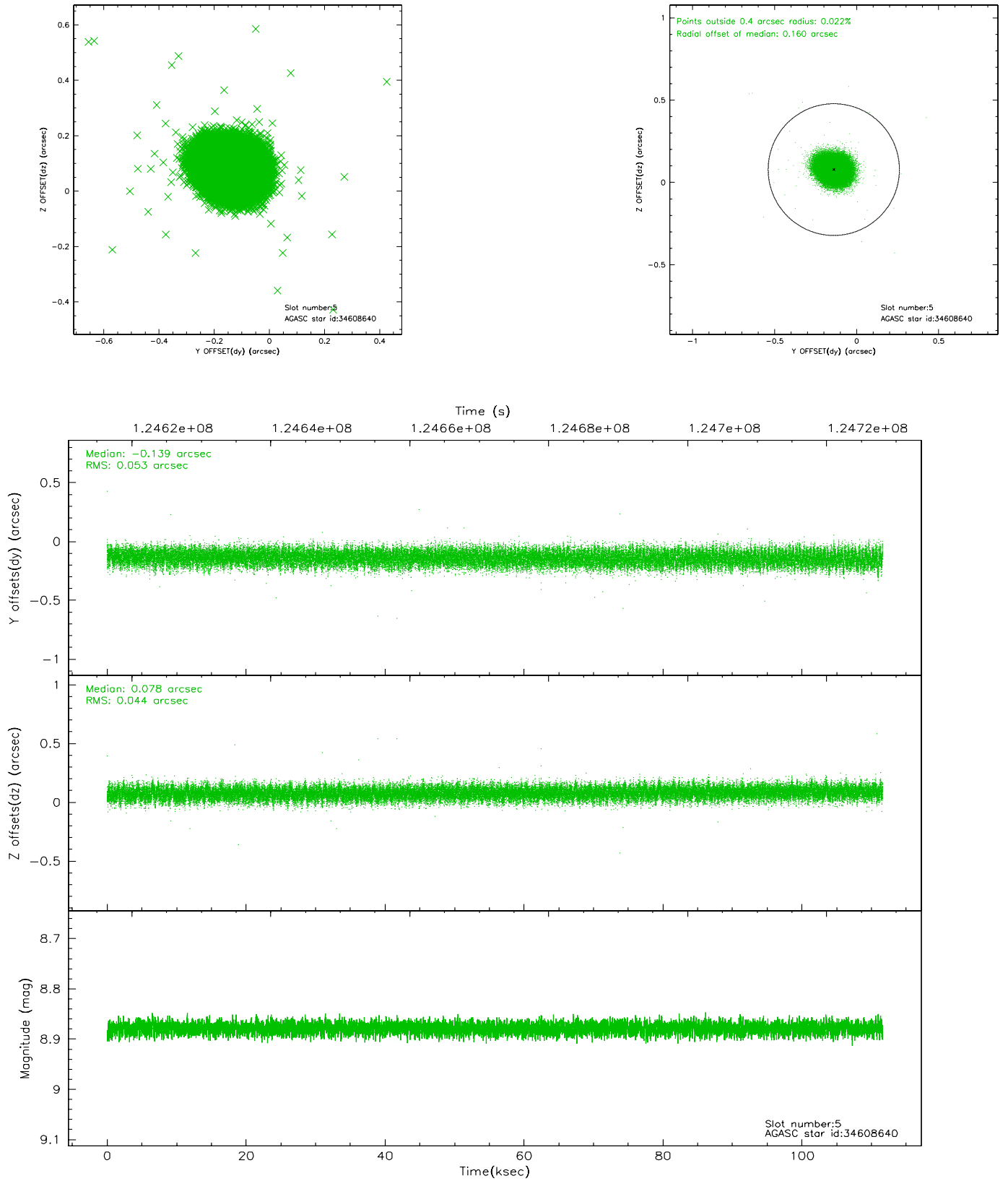
### 2.4.1 Slot 3



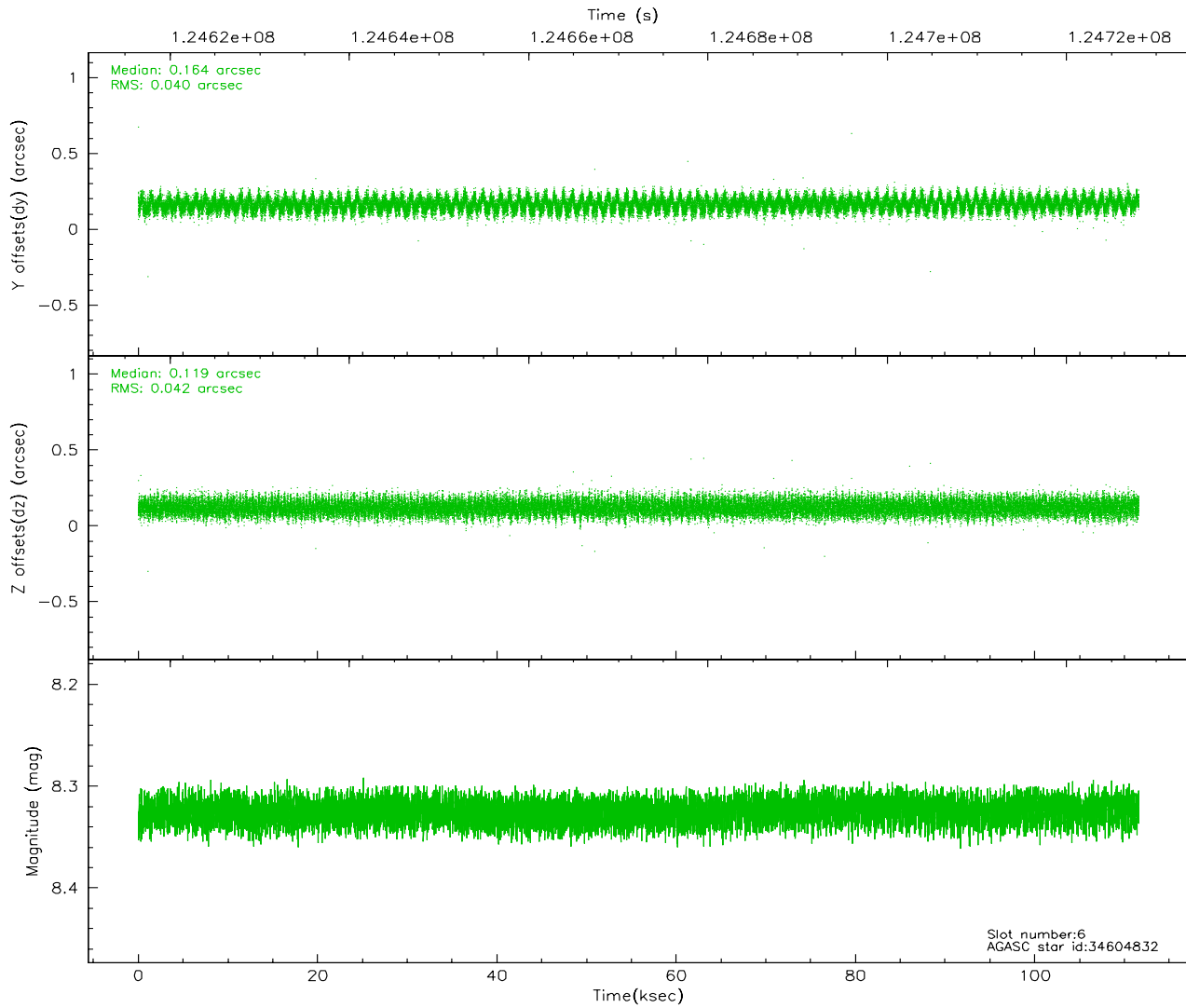
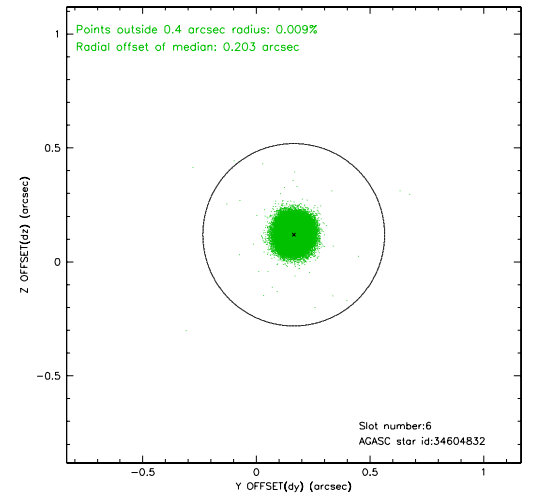
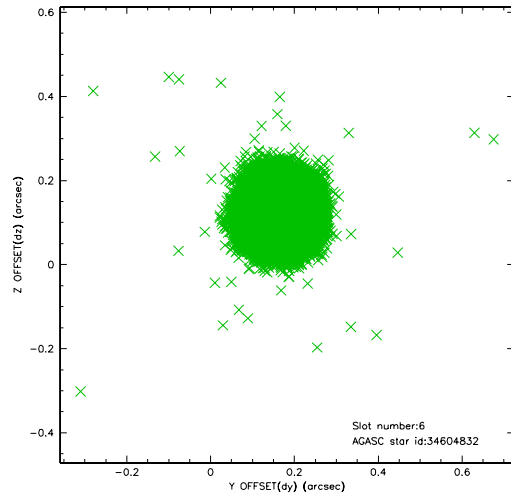
## 2.4.2 Slot 4



### 2.4.3 Slot 5

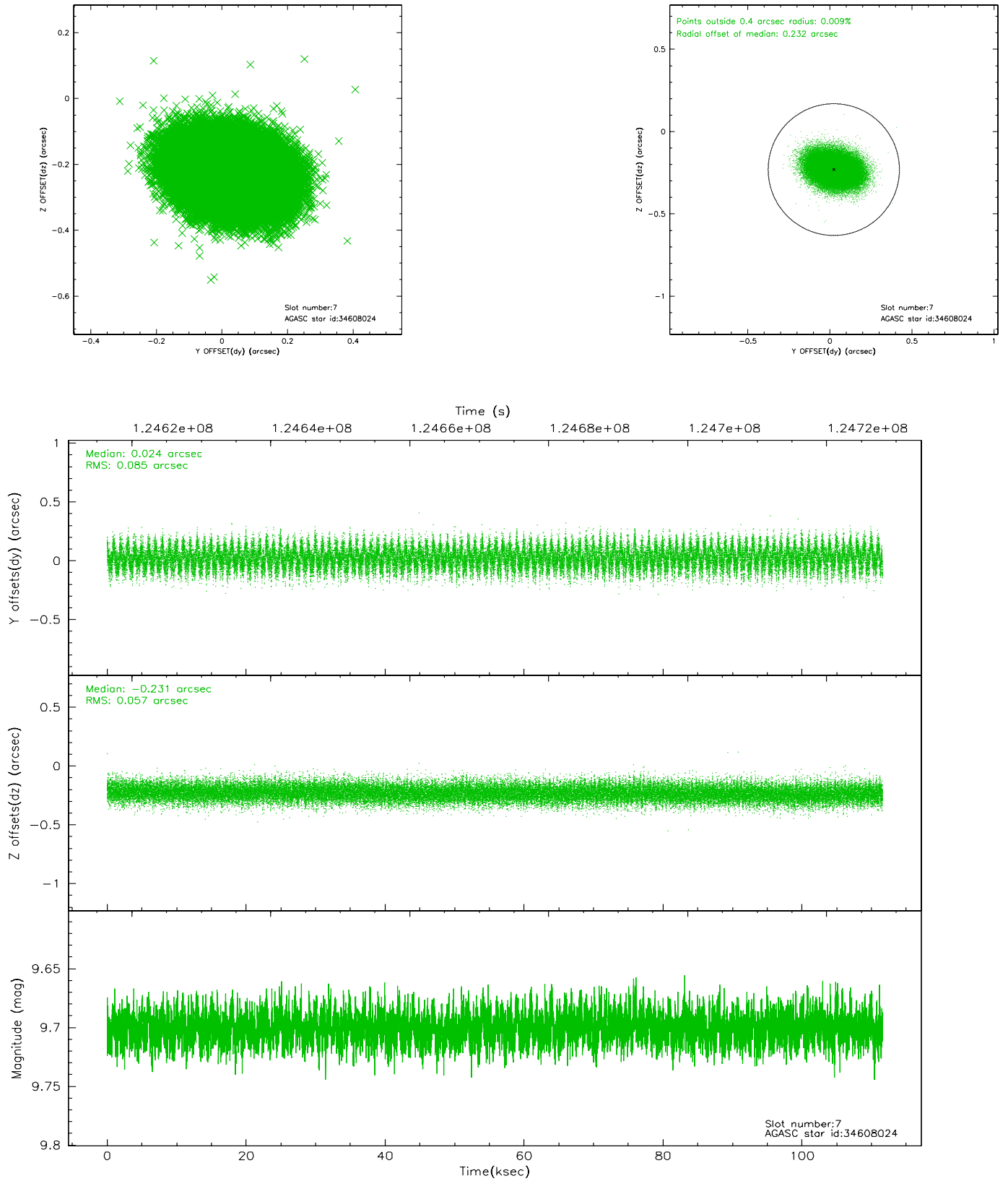


## 2.4.4 Slot 6



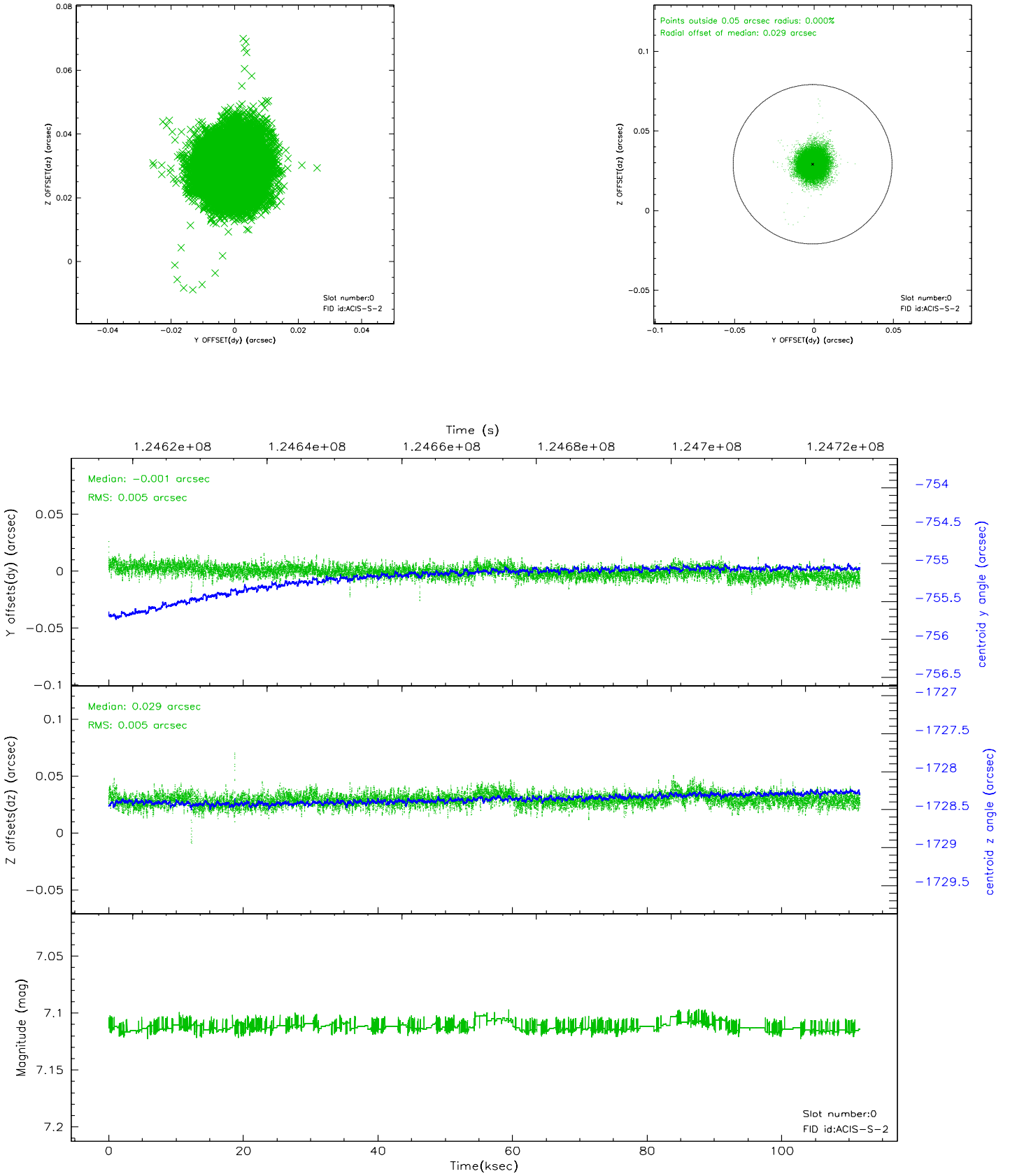


## 2.4.5 Slot 7

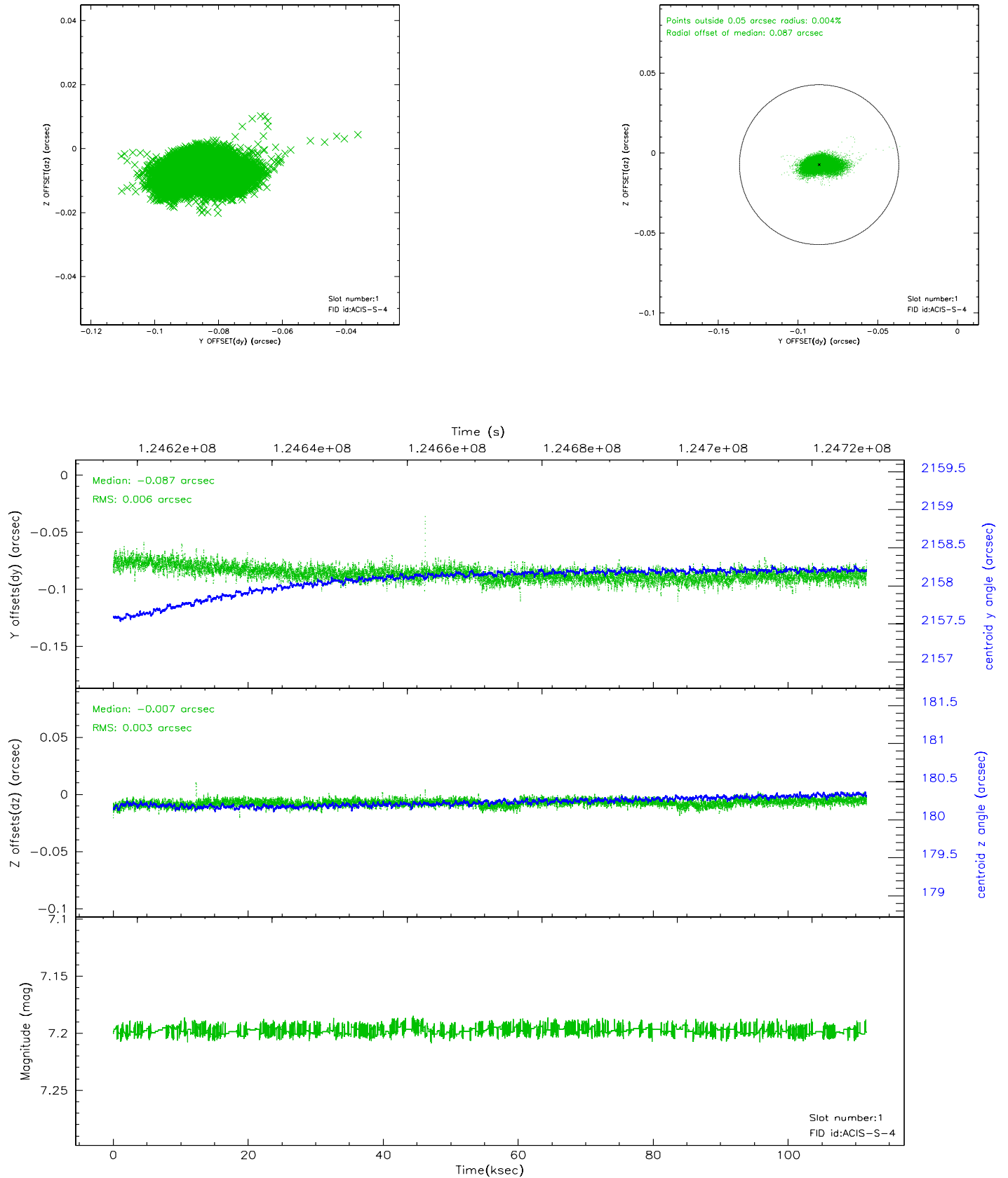


## 2.5 FID Slots

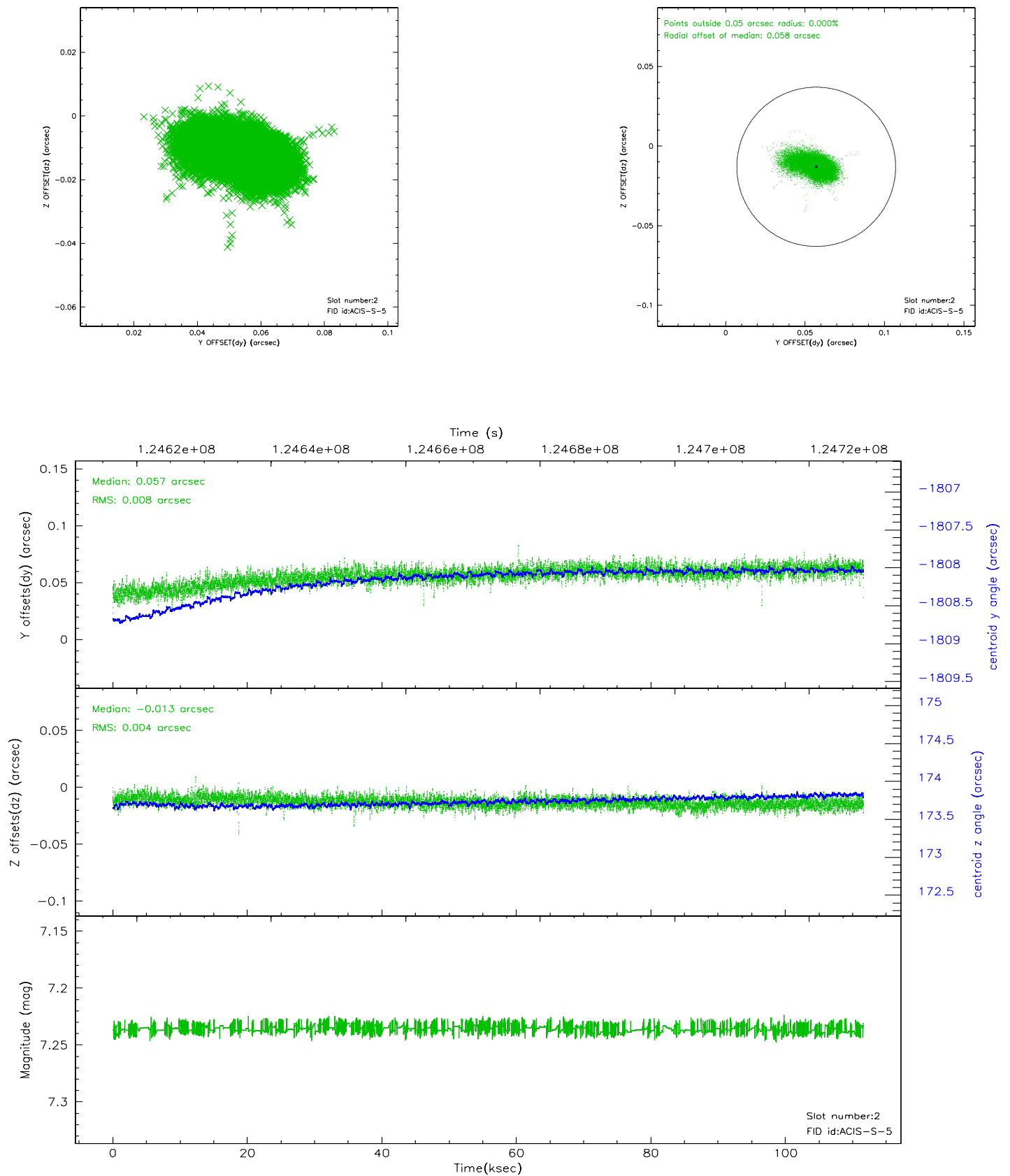
### 2.5.1 Slot 0



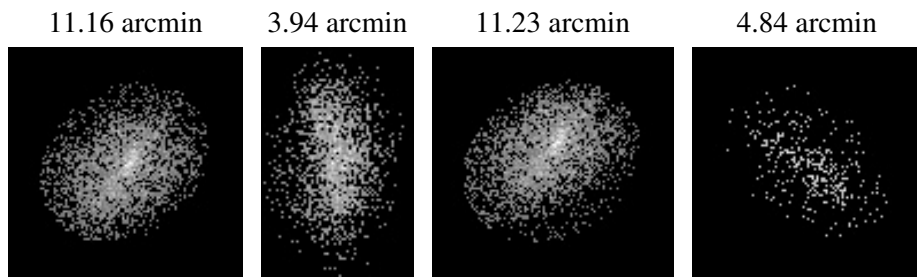
## 2.5.2 Slot 1



### 2.5.3 Slot 2



### 3 Point Sources



## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2007.01.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	111.621

### A.2 Comments