

# V&V Reference Report

## L2 ASCDS Version : 7.6.7.1

Observation 6366 - L2 Version 002  
Chandra X-Ray Center

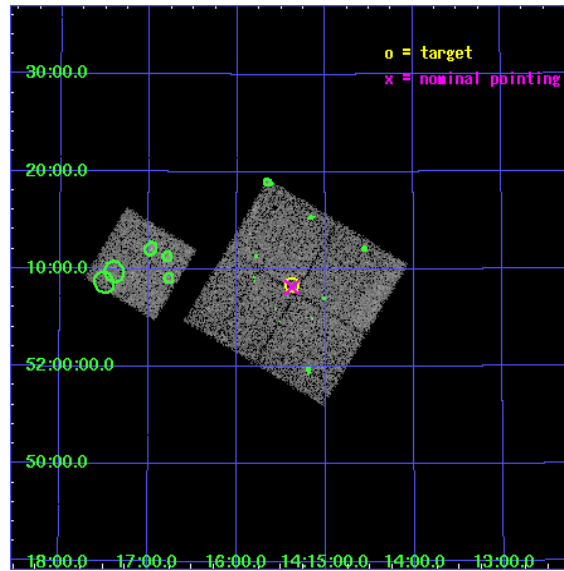
L2 Processing Date : Mar 23 2006

## 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

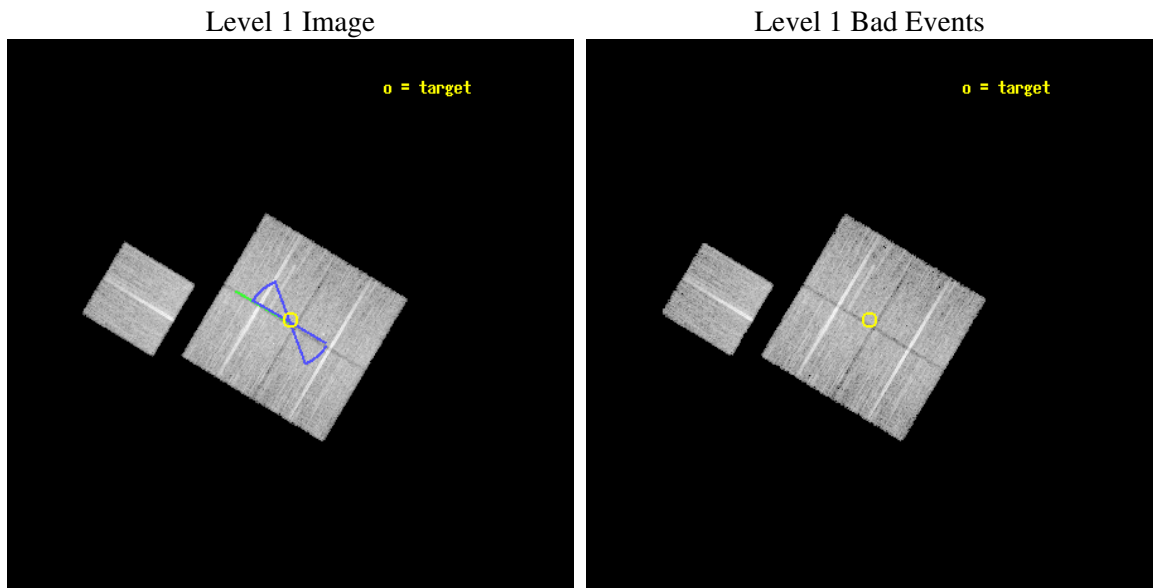
seq_num	900354
obs_id	6366
title	Deep Chandra Imaging of the Extended Groth Strip: The Co-evolution of Black Holes and Galaxies
observer	Professor Kirpal Nandra
object	EGS-7
dtcycle	0
cycle	P
ra_targ	213.843735
dec_targ	52.140667
ra_nom	213.84476321554
dec_nom	52.136052248399
roll_nom	300.96387489733
revision	2
ontime	14774.55901134
livetime	14581.518520985
ontime0	14777.699971586
ontime1	14774.559001327
ontime2	14771.417991281
ontime3	14774.55901134
ontime6	14777.699971586
l2events	41237



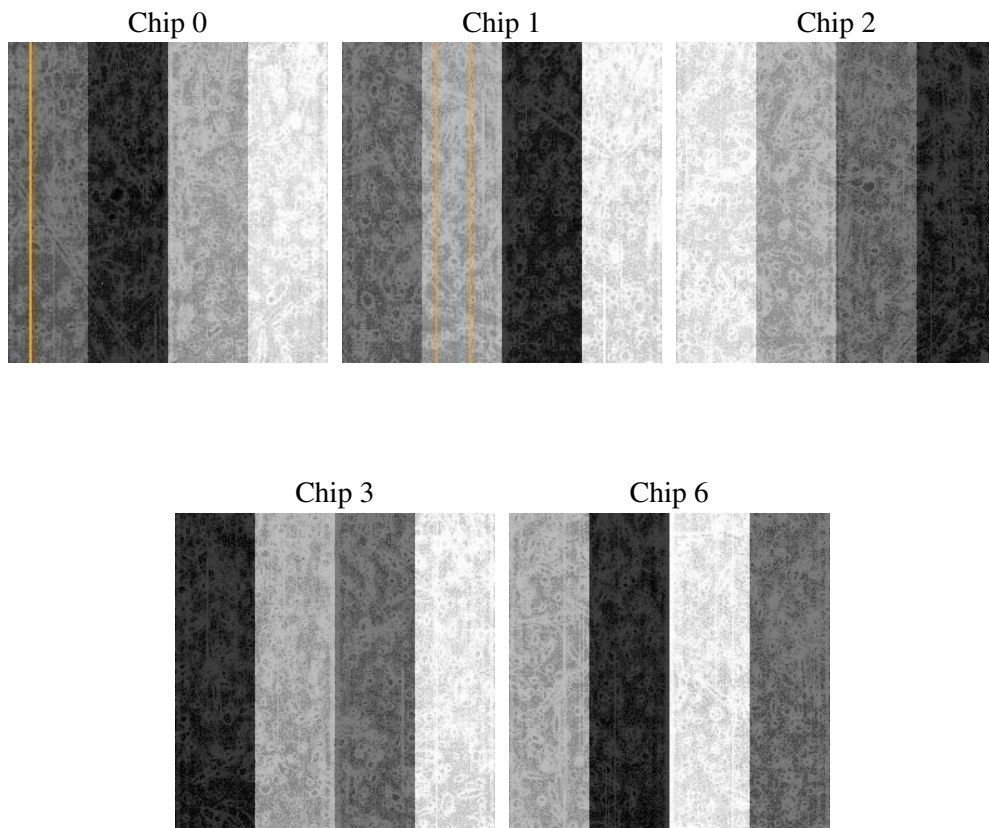
## 2 OBI

### 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	2006-03-23T18:51:49
revision	2

sched_exp_time	15000.000000
ontime	14778.417178631
ontime0	14781.558138877
ontime1	14778.417168617
ontime2	14775.276158571
ontime3	14778.417178631
ontime6	14781.558108985
l1events	452966

### 2.1.4 Events

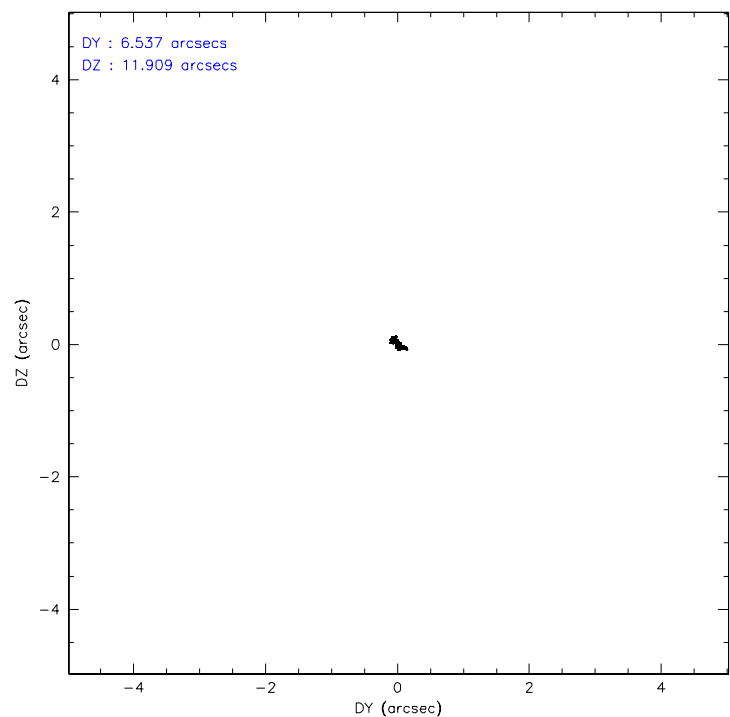
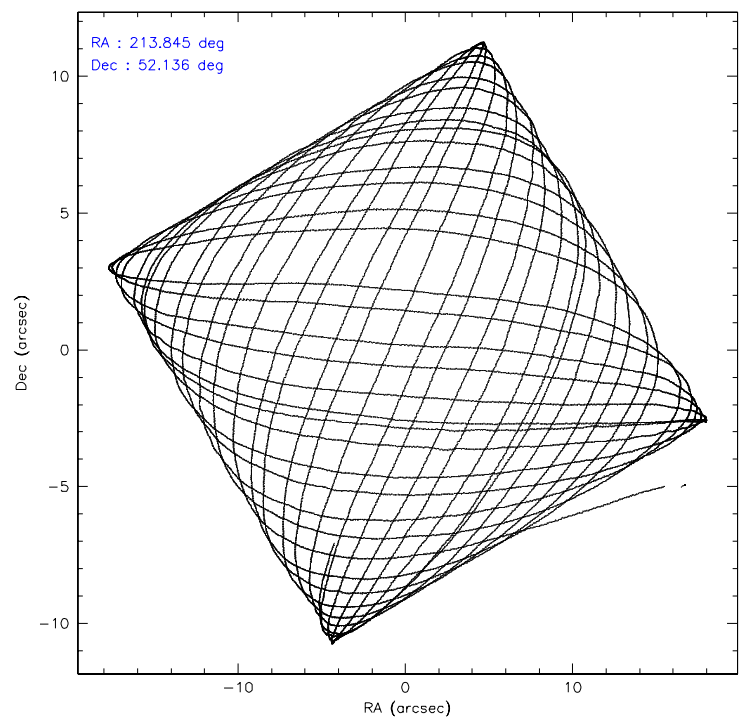
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	87956	85200	99264	89216	91330
rejected events	78382	74429	89787	80209	81057
rejected %	89%	87%	90%	89%	88%

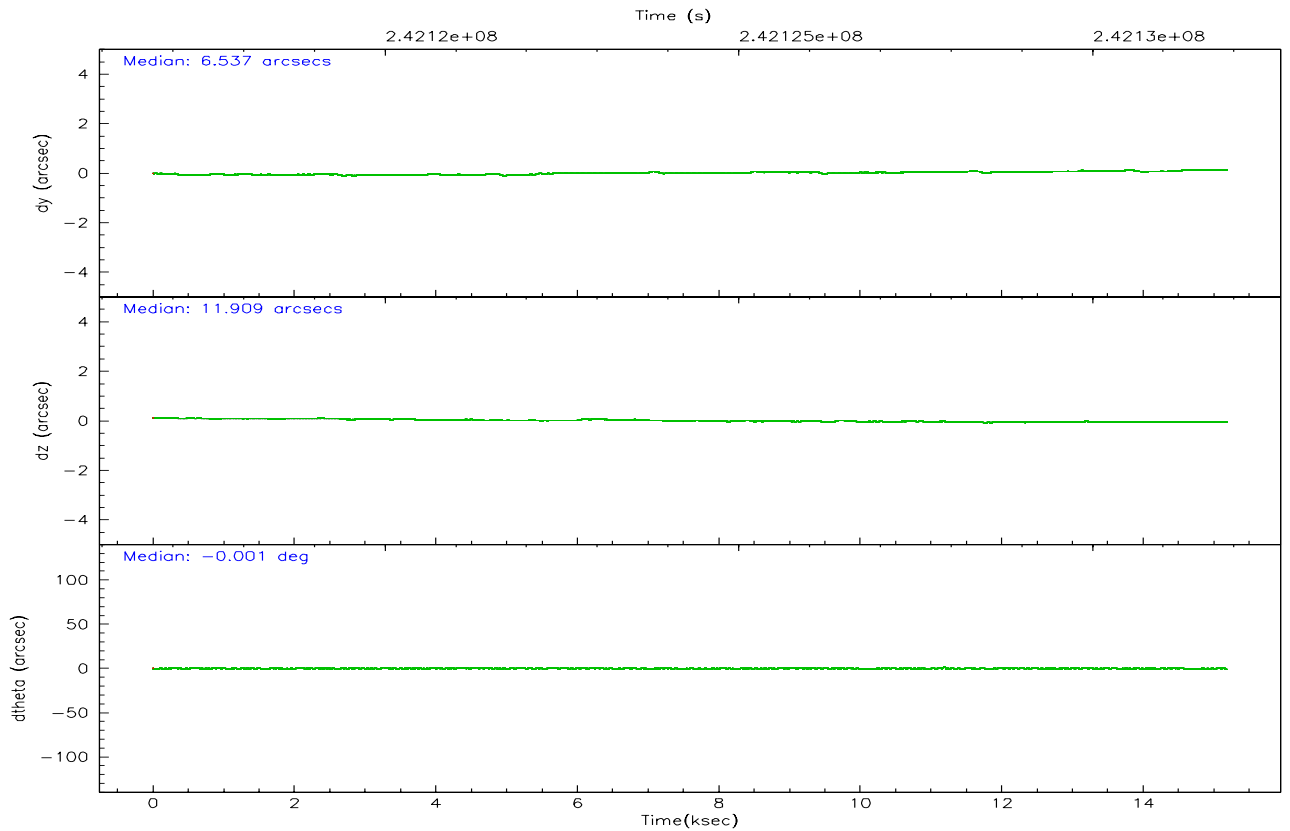
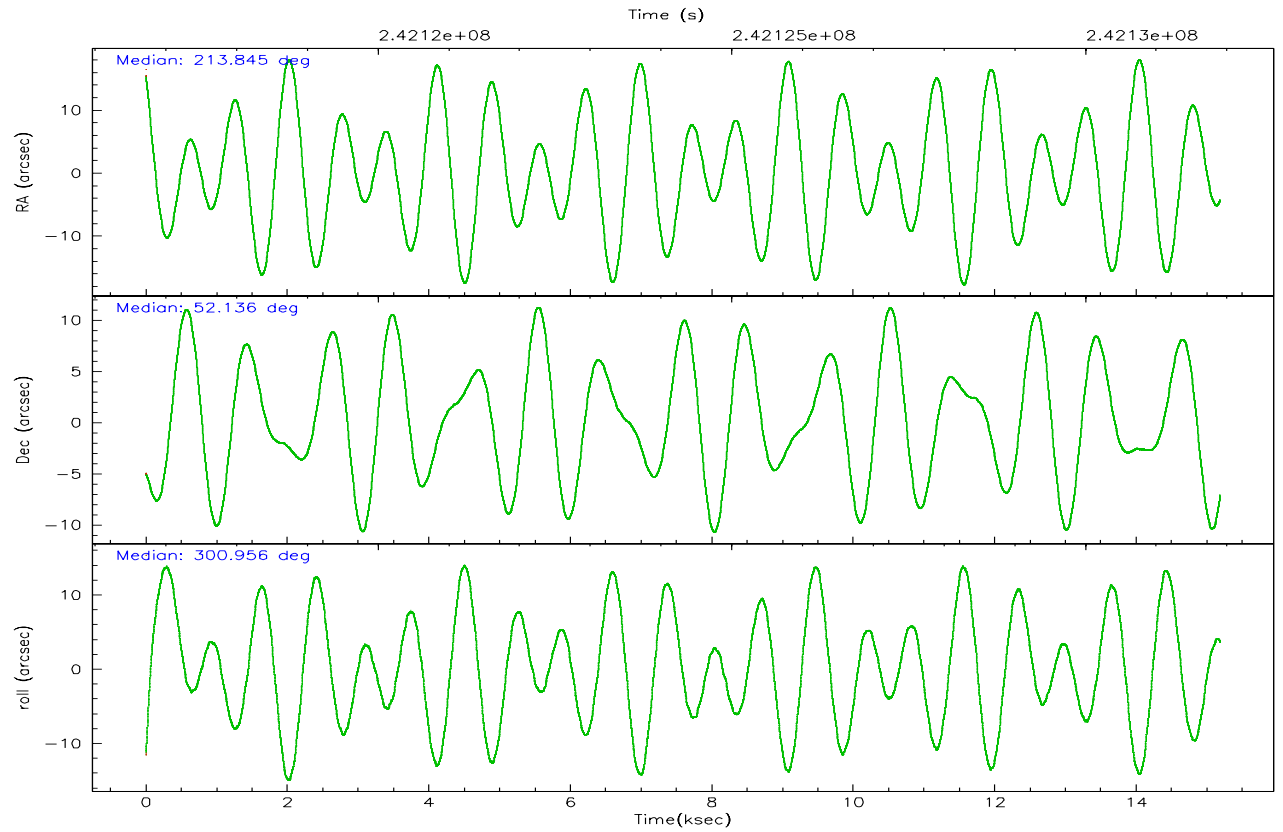
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	3527	4227	3728	3324	4107
	4%	4%	3%	3%	4%
grade 1 events	42	57	42	57	58
	0%	0%	0%	0%	0%
grade 2 events	2186	2291	2100	1899	2070
	2%	2%	2%	2%	2%
grade 3 events	1075	1092	1000	1014	1044
	1%	1%	1%	1%	1%
grade 4 events	1012	1128	981	1054	1064
	1%	1%	0%	1%	1%
grade 5 events	3173	3382	3057	3606	3612
	3%	3%	3%	4%	3%
grade 6 events	1776	2037	1673	1722	1992
	2%	2%	1%	1%	2%
grade 7 events	75165	70986	86683	76540	77383
	85%	83%	87%	85%	84%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-01236	ACIS-01236	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	On-chip summing requested	N	N
Observation mode	POINTING	POINTING	Subarray requested	NONE	NONE
Pointing RA	213.805675	213.8447632155443	Alternating exposures requested	N	N
Pointing Dec	52.149270	52.13605224839911	Primary exposure time	0.000000	3.1
Pointing Roll	300.786054	300.9638748973266			
Roll angle	50.756000	50.756000			
Roll tolerance	20.000000	20.000000			
Roll constraint allows 180D rotation	Y	Y			
SIM focus pos (mm)	-0.782348	-0.7809083437167272			
SIM defocus (mm)	0	0.001439871863259334			
SIM translation stage pos (mm)	-233.592463	-233.5874344608287			
SIM translation stage offset (mm)	0	-0.005018542100998502			
Observation start time	242116909.184000	242116211.22637			
Observation start date	2005-09-03T06:40:45	2005-09-03T06:30:11			
Observation end time	242131909.184000	242132872.60214			
Observation end date	2005-09-03T10:50:45	2005-09-03T11:07:52			
Read mode	TIMED	TIMED			

## 2.3 Aspect



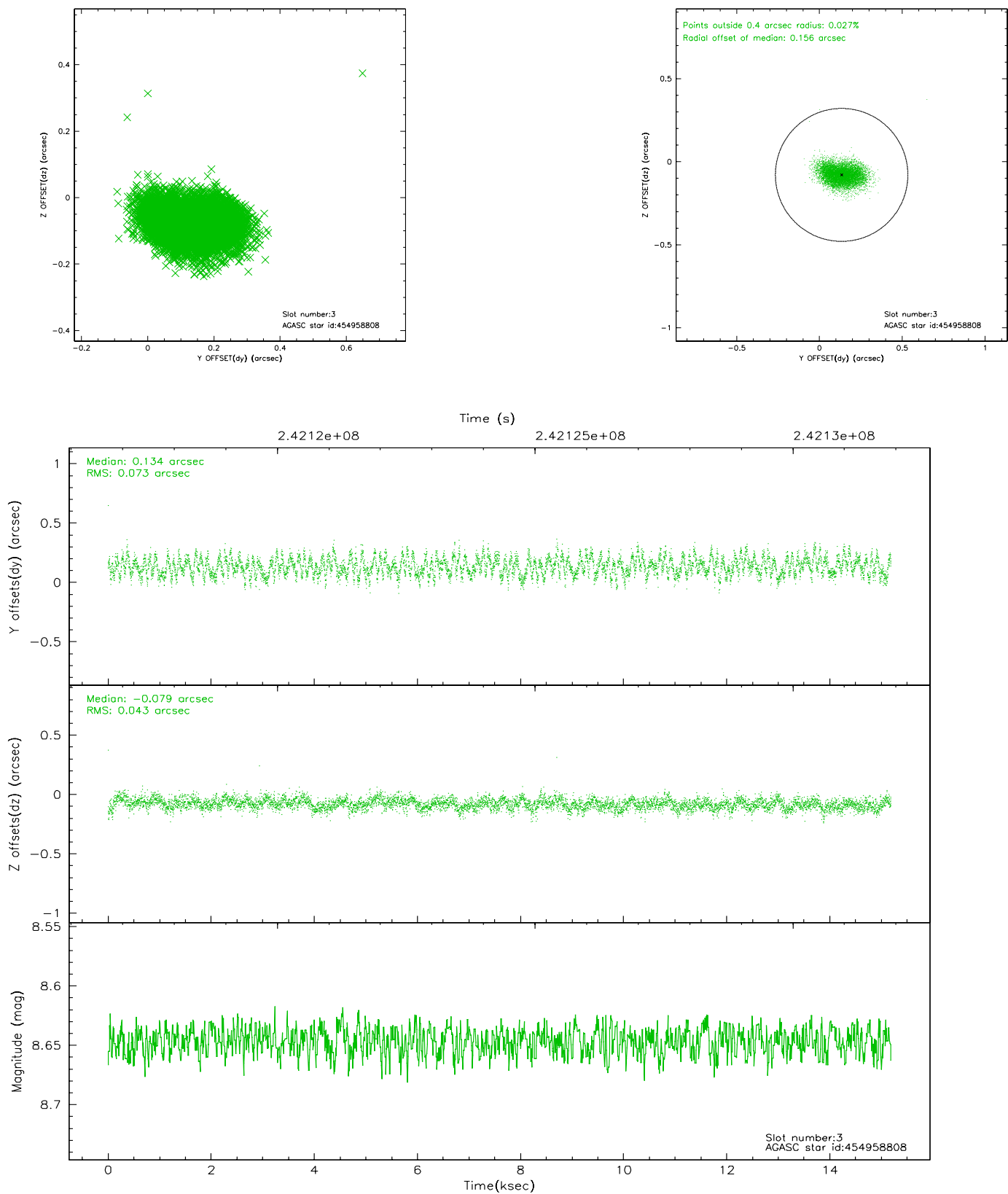


### Slot Statistics

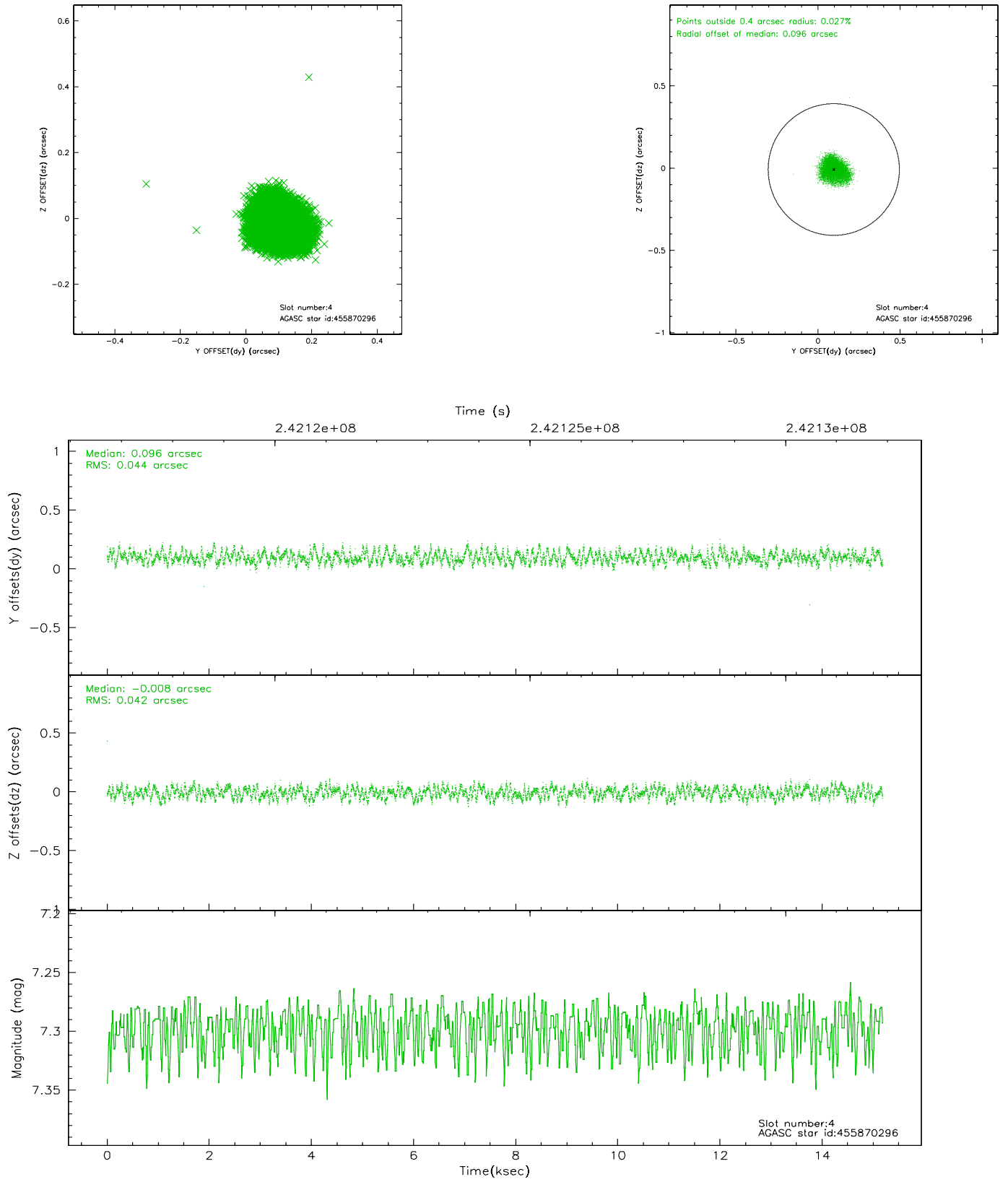
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.24	3705	0.025	0.013	0.006	0.011	0.000000	0.000000	933.16	-835.45
1	FID	ACIS-I-5	7.23	3705	-0.134	0.055	0.006	0.010	0.000000	0.000000	-1814.90	1062.00
2	FID	ACIS-I-6	7.25	3705	0.018	0.002	0.007	0.011	0.000000	0.000000	398.43	1706.73
3	GUIDE	454958808	8.65	7406	0.134	-0.079	0.091	0.147	213.416486	51.296487	2187.58	-2322.29
4	GUIDE	455870296	7.30	7410	0.096	-0.008	0.066	0.100	214.629779	52.033323	1284.11	1359.83
5	GUIDE	505806936	7.01	7408	-0.076	-0.007	0.055	0.109	213.820815	52.535927	-1178.82	741.30
6	GUIDE	505812376	7.55	7409	-0.092	-0.091	0.044	0.071	214.039537	52.937930	-2180.63	1889.63
7	GUIDE	454958240	9.05	7408	-0.071	0.177	0.107	0.171	212.550018	52.097330	-1281.20	-2468.37

## 2.4 Star Slots

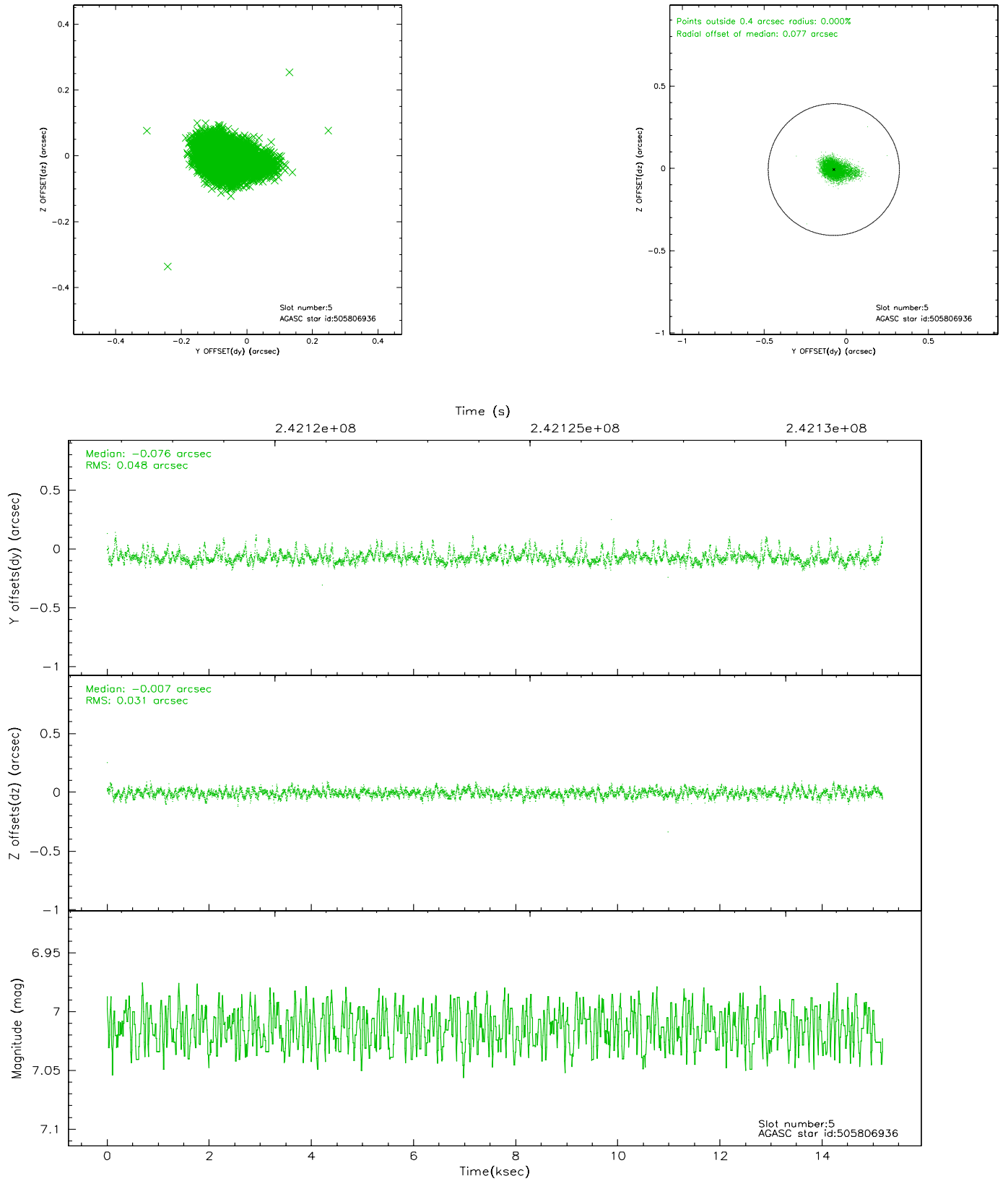
### 2.4.1 Slot 3



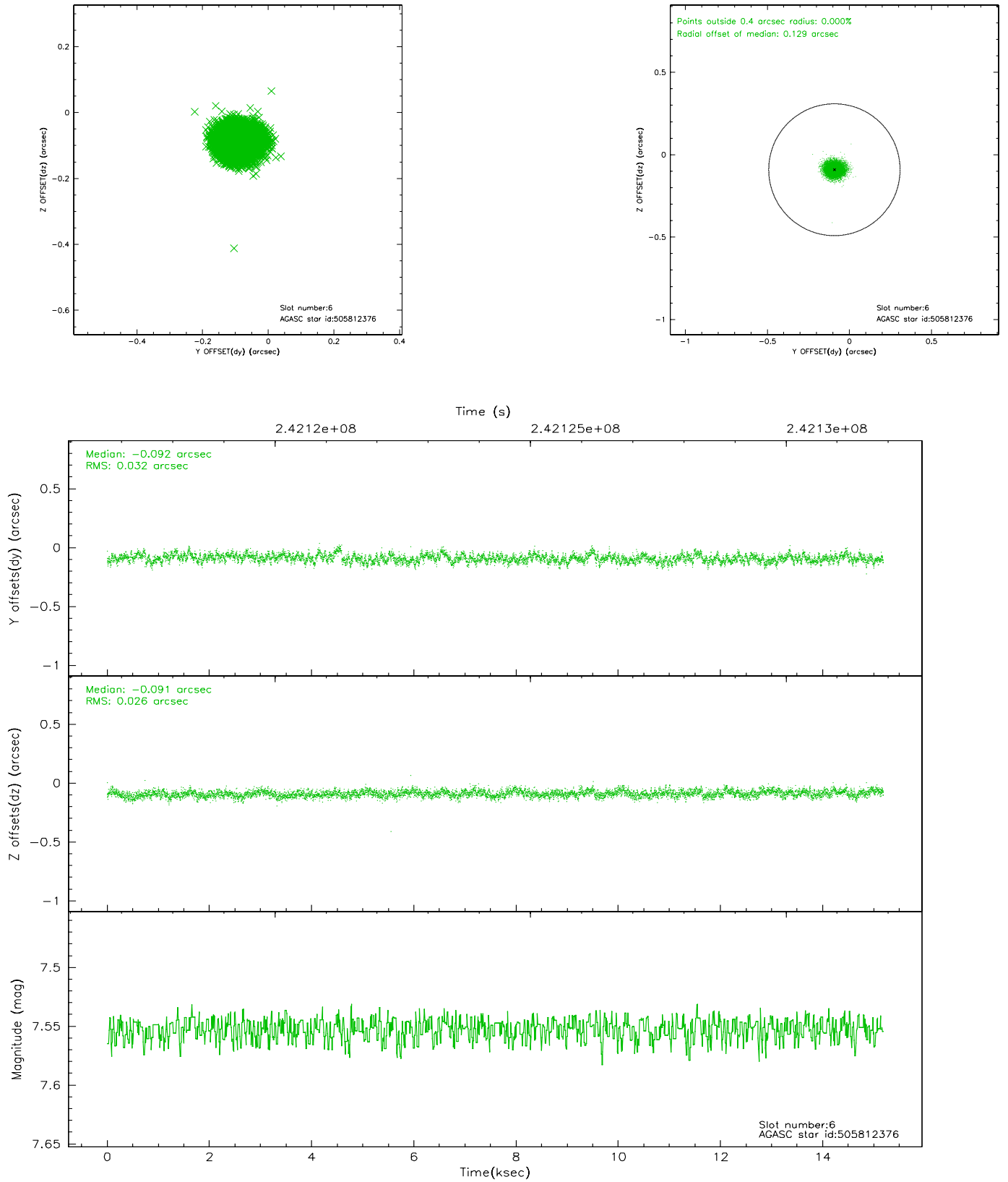
## 2.4.2 Slot 4



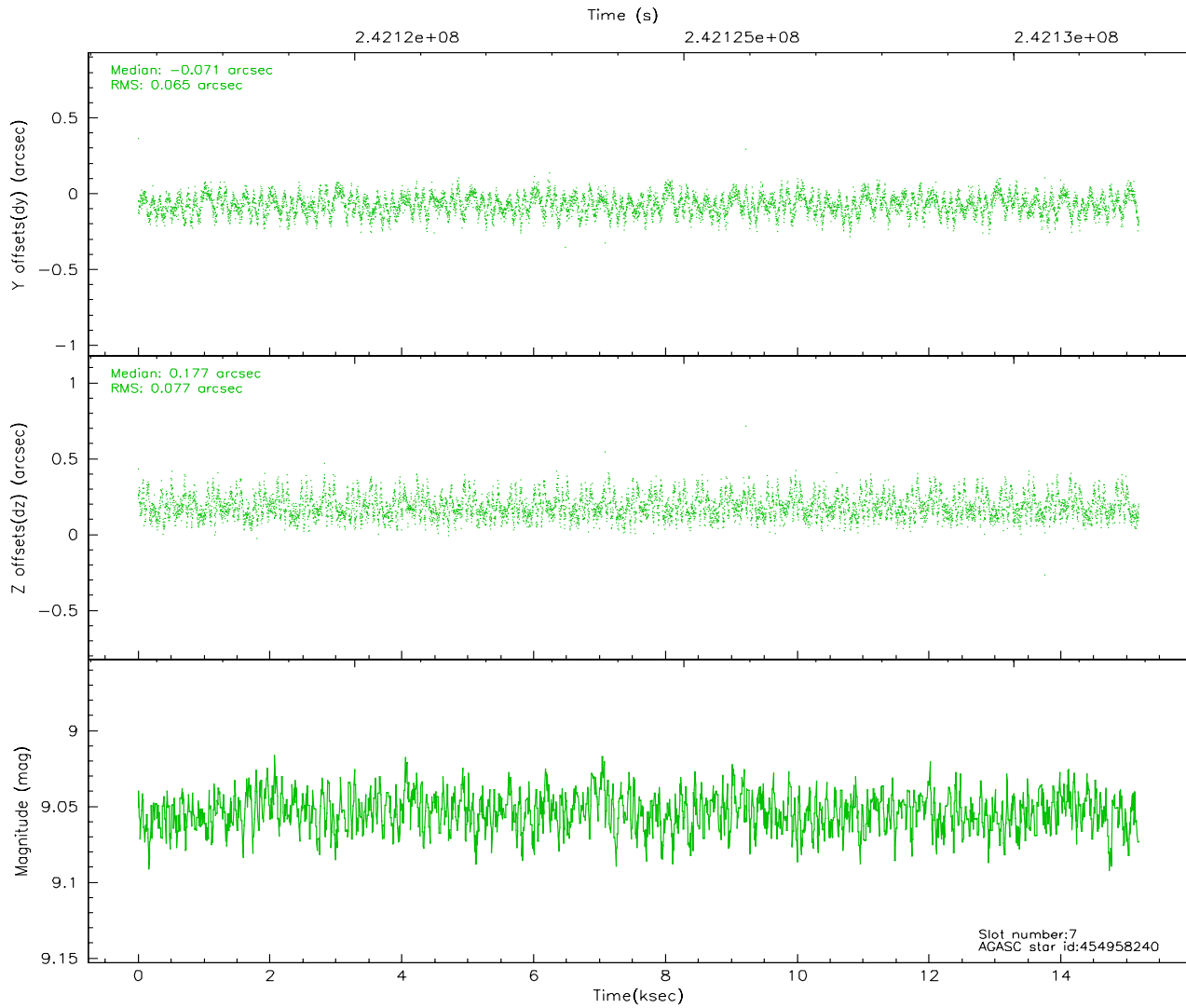
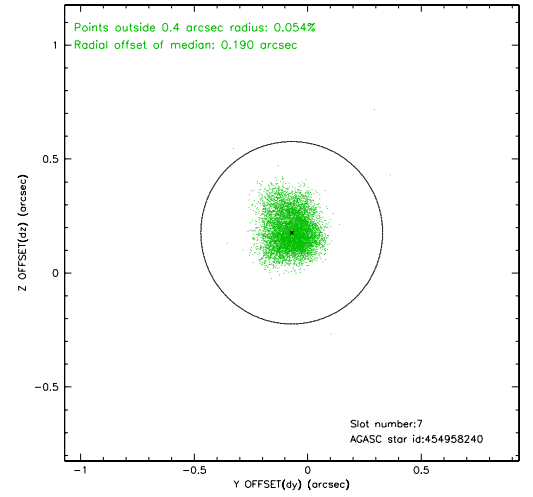
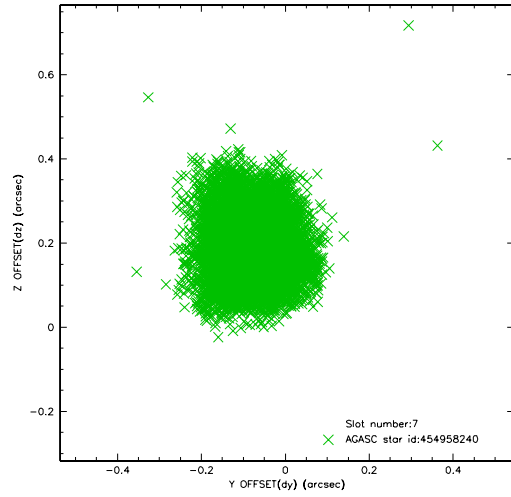
### 2.4.3 Slot 5



## 2.4.4 Slot 6

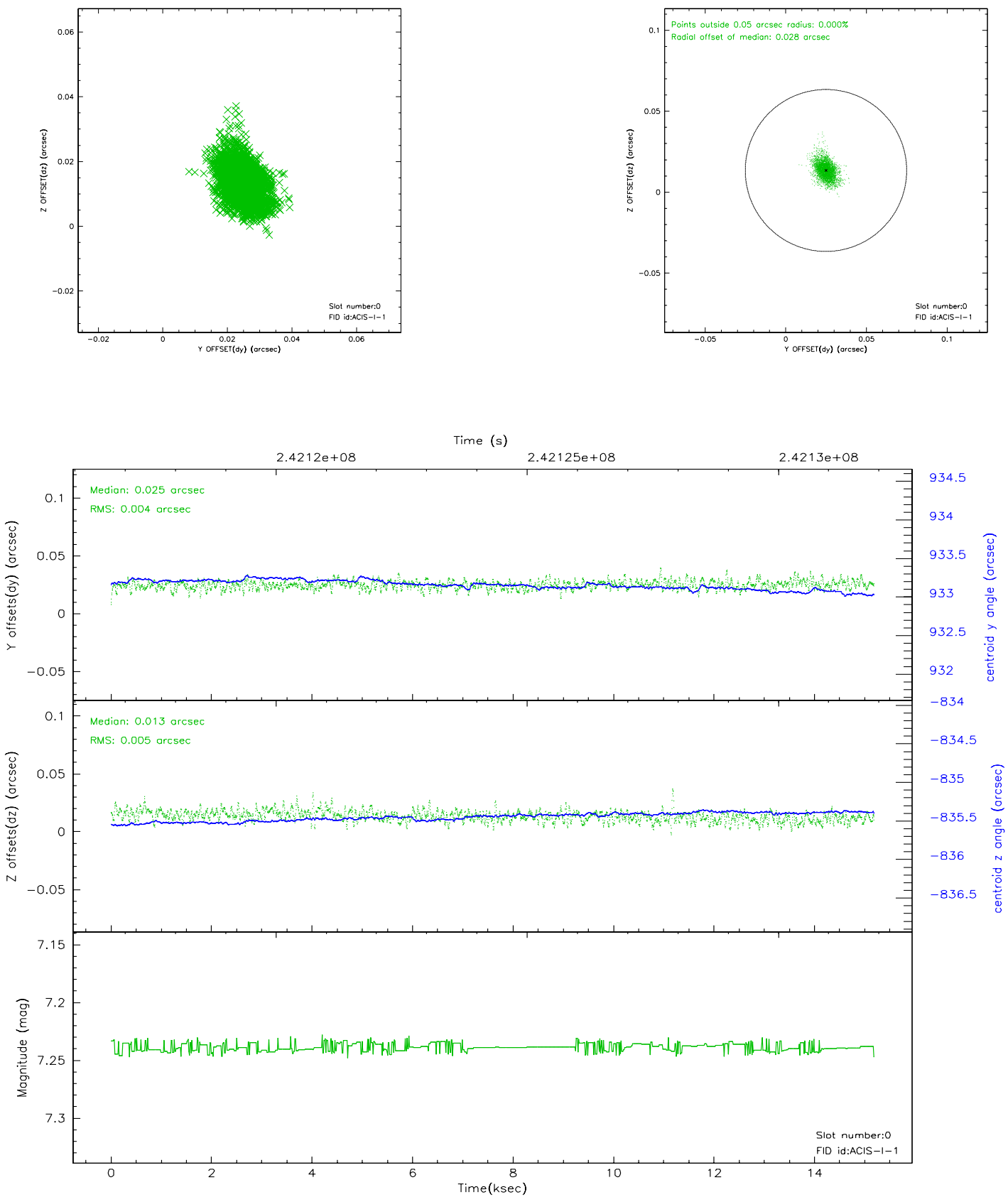


## 2.4.5 Slot 7

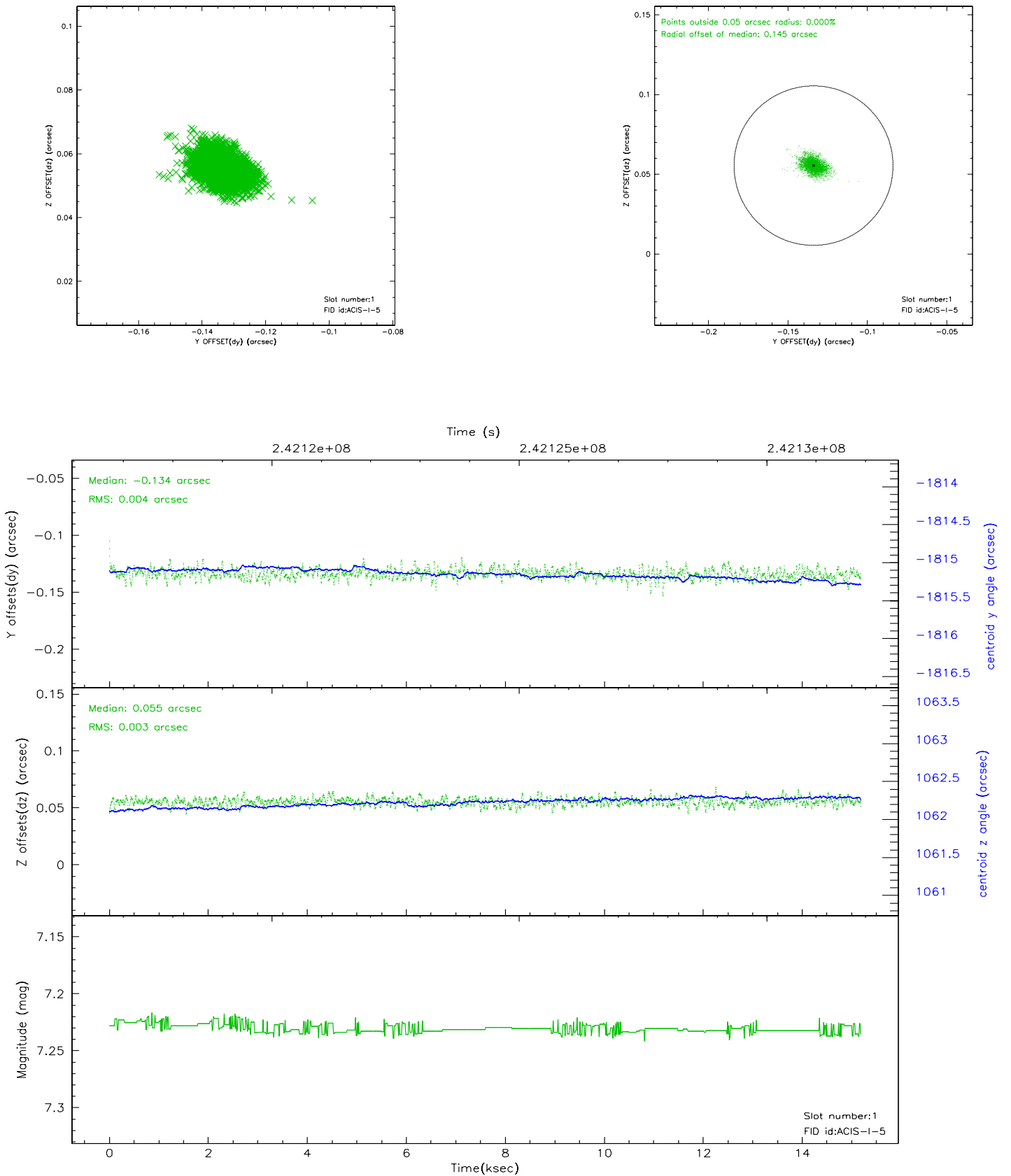


## 2.5 FID Slots

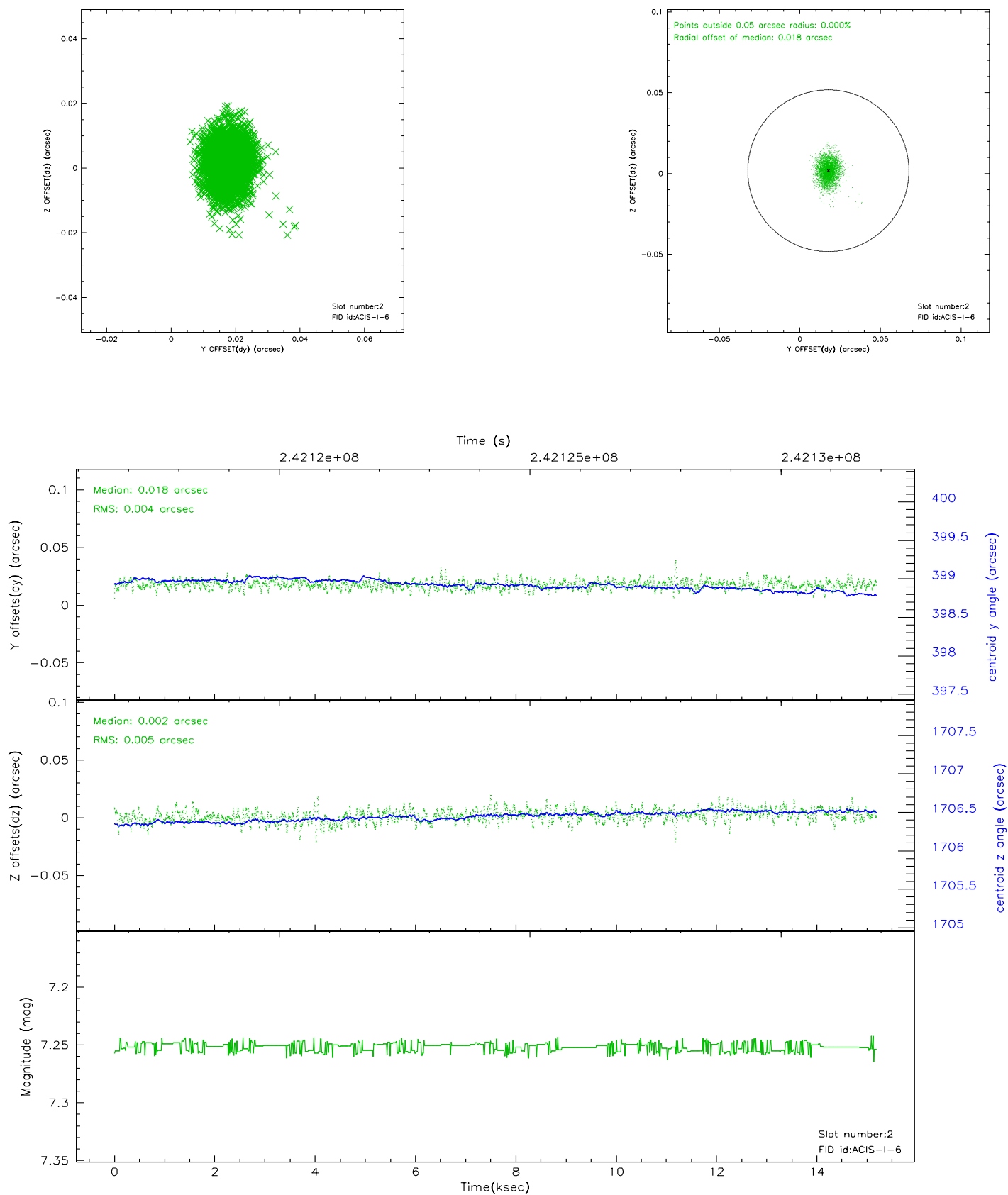
### 2.5.1 Slot 0



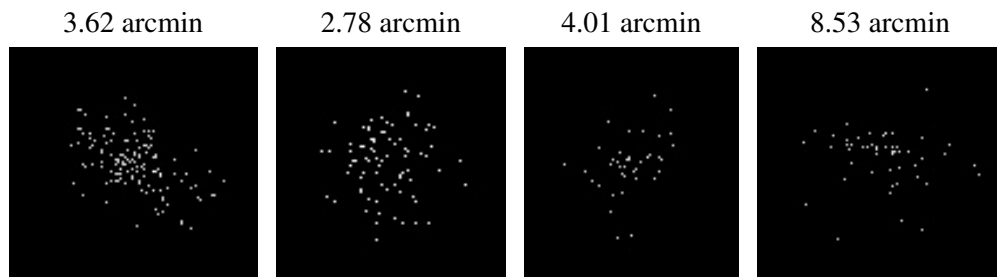
## 2.5.2 Slot 1



## 2.5.3 Slot 2



### 3 Point Sources



## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2006.03.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	14.77455

### A.2 Comments

Roll constraint satisfied.