

# V&V Reference Report

## L2 ASCDS Version : 7.6.7.1

Observation 6117 - L2 Version 002  
Chandra X-Ray Center

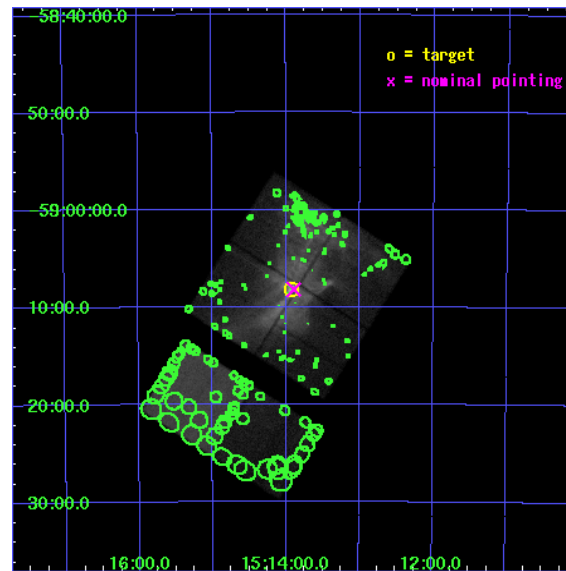
L2 Processing Date : Apr 2 2006

## 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

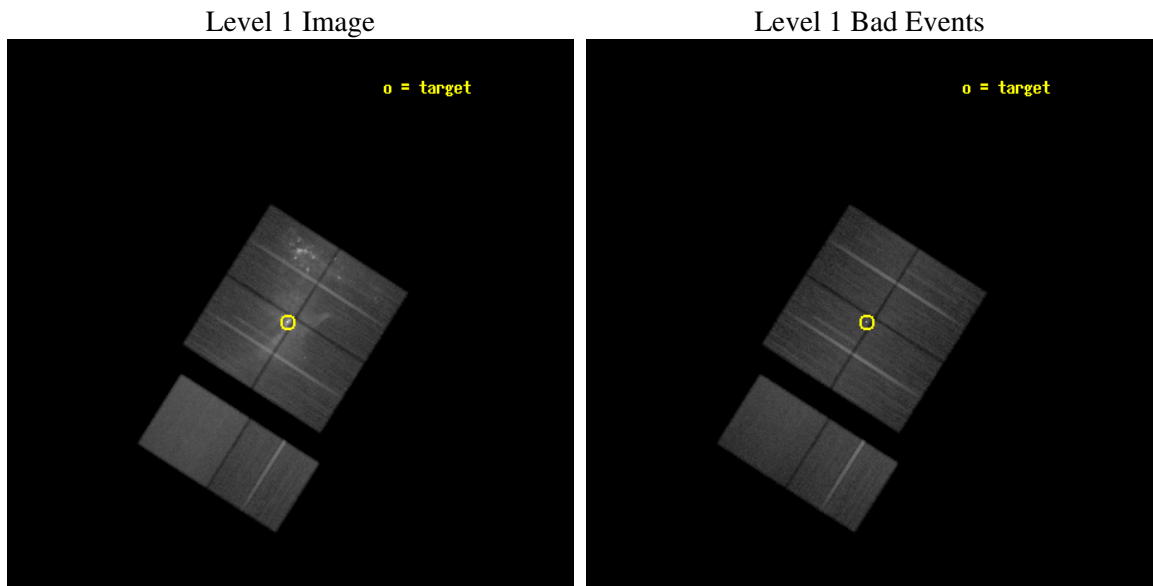
seq_num	500528
obs_id	6117
title	The Structure and Composition of Pulsar Winds and their Nebulae
observer	Dr. Patrick Slane
object	PSR B1509-58
dtcycle	0
cycle	P
ra_targ	228.481667
dec_targ	-59.135806
ra_nom	228.47276176586
dec_nom	-59.136560938176
roll_nom	212.46495305074
revision	2
ontime	46137.476917237
livetime	45553.256403858
ontime0	46143.958867788
ontime1	46147.199828088
ontime2	46143.958837897
ontime3	46137.476917237
ontime6	46140.717817813
ontime7	46147.199828088
l2events	842268



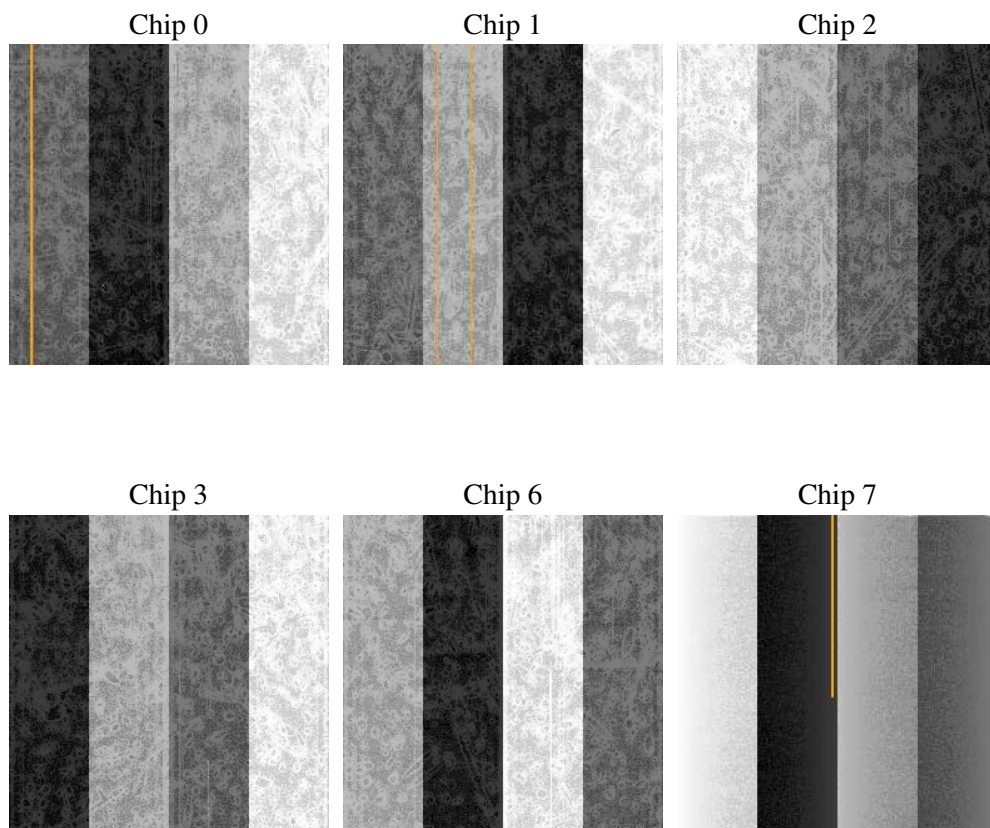
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0
ascdsver	7.6.7.1
caldsver	3.2.1
date	2006-04-02T10:45:21
revision	2

sched_exp_time	46000.000000
ontime	46142.134145617
ontime0	46148.61622569
ontime1	46151.857056469
ontime2	46148.616195798
ontime3	46142.134145617
ontime6	46145.375175714
ontime7	46151.85708636
l1events	2768721

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	412100	504607	436353	514270	383922	517469
rejected events	290673	286010	322730	329018	332626	307927
rejected %	70%	56%	73%	63%	86%	59%

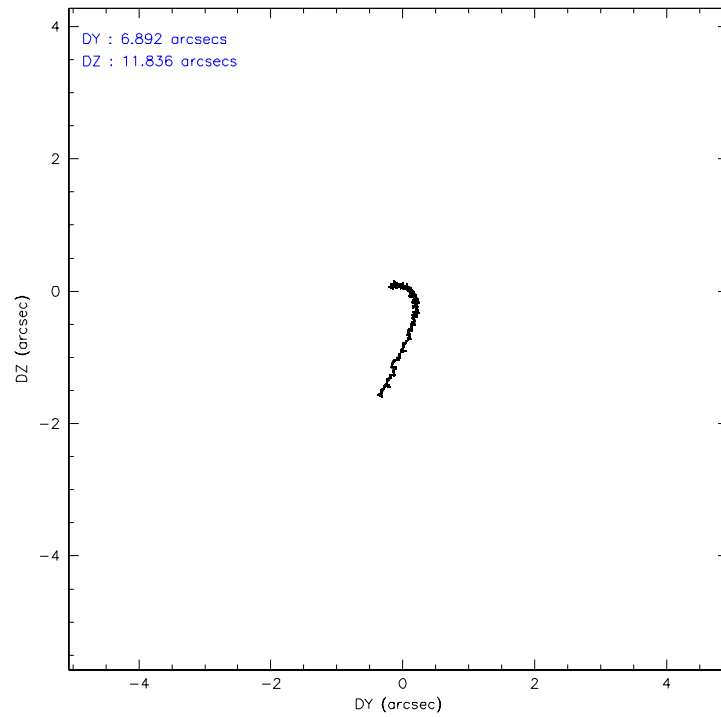
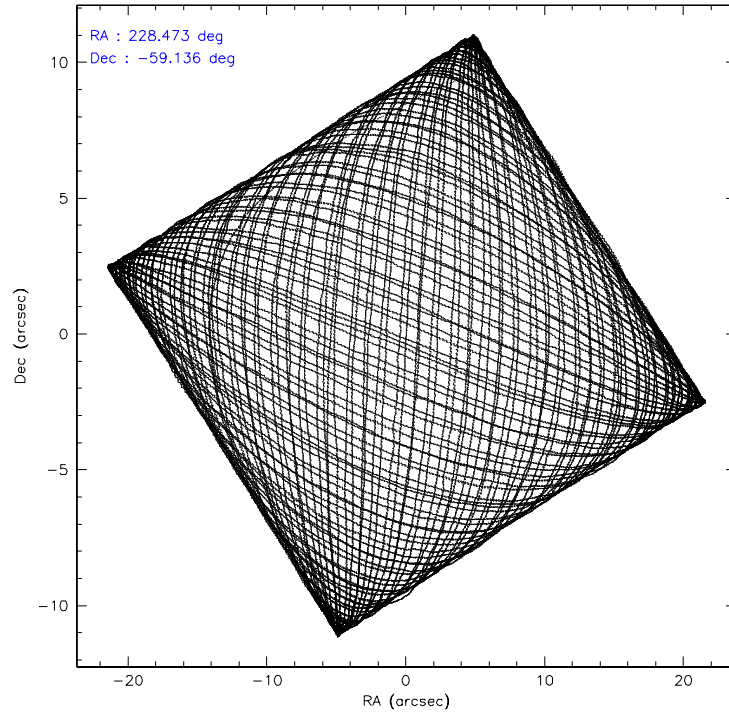
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	80498	158634	74582	125789	22958	15078
	19%	31%	17%	24%	5%	2%
grade 1 events	555	853	524	2426	225	308
	0%	0%	0%	0%	0%	0%
grade 2 events	17867	27723	16481	25020	10181	53653
	4%	5%	3%	4%	2%	10%
grade 3 events	6894	9719	6515	9752	4505	11202
	1%	1%	1%	1%	1%	2%
grade 4 events	6555	9553	6652	9816	4352	11000
	1%	1%	1%	1%	1%	2%
grade 5 events	14892	16511	13875	19609	17186	32131
	3%	3%	3%	3%	4%	6%
grade 6 events	9631	13000	9412	14901	9307	118631
	2%	2%	2%	2%	2%	22%
grade 7 events	275208	268614	308312	306957	315208	275466
	66%	53%	70%	59%	82%	53%

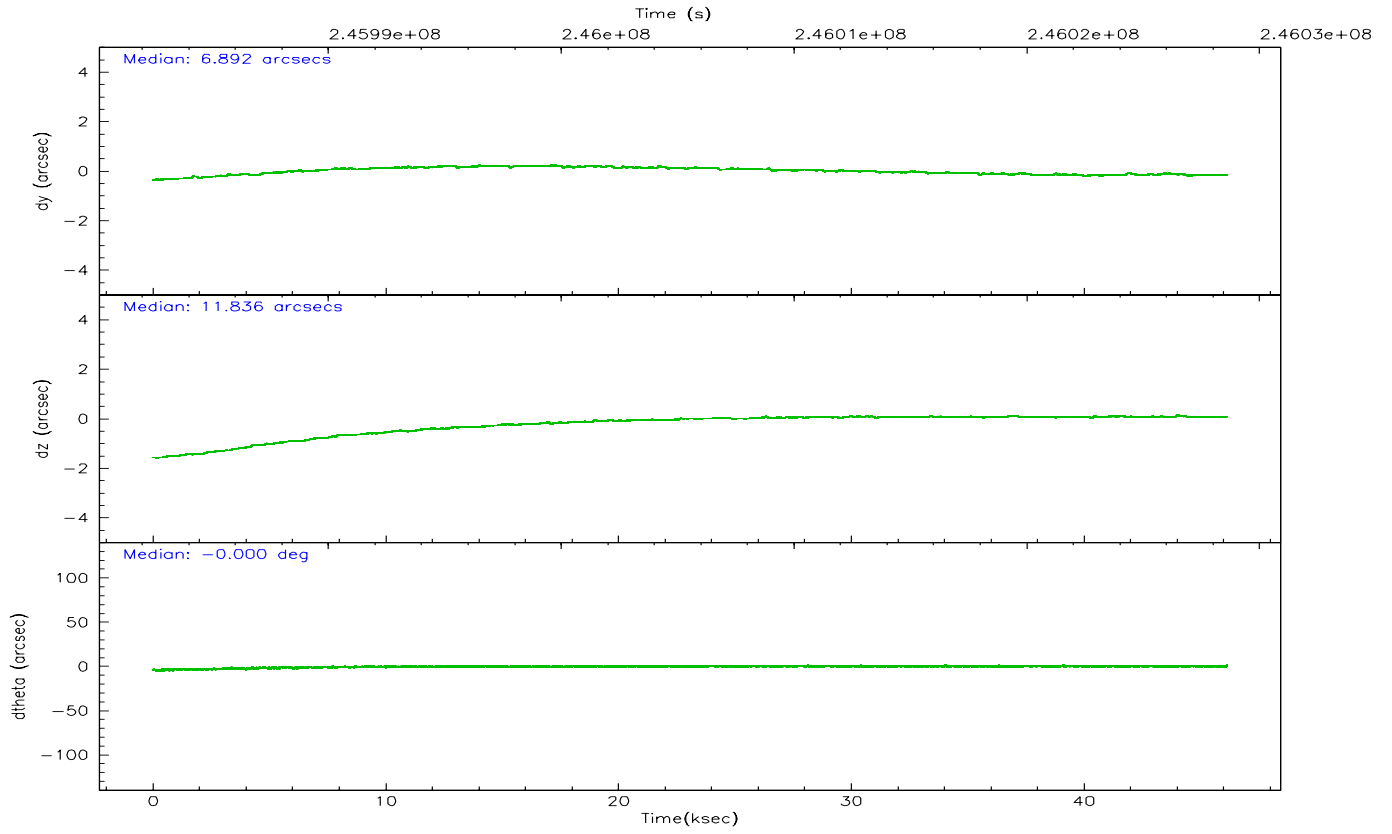
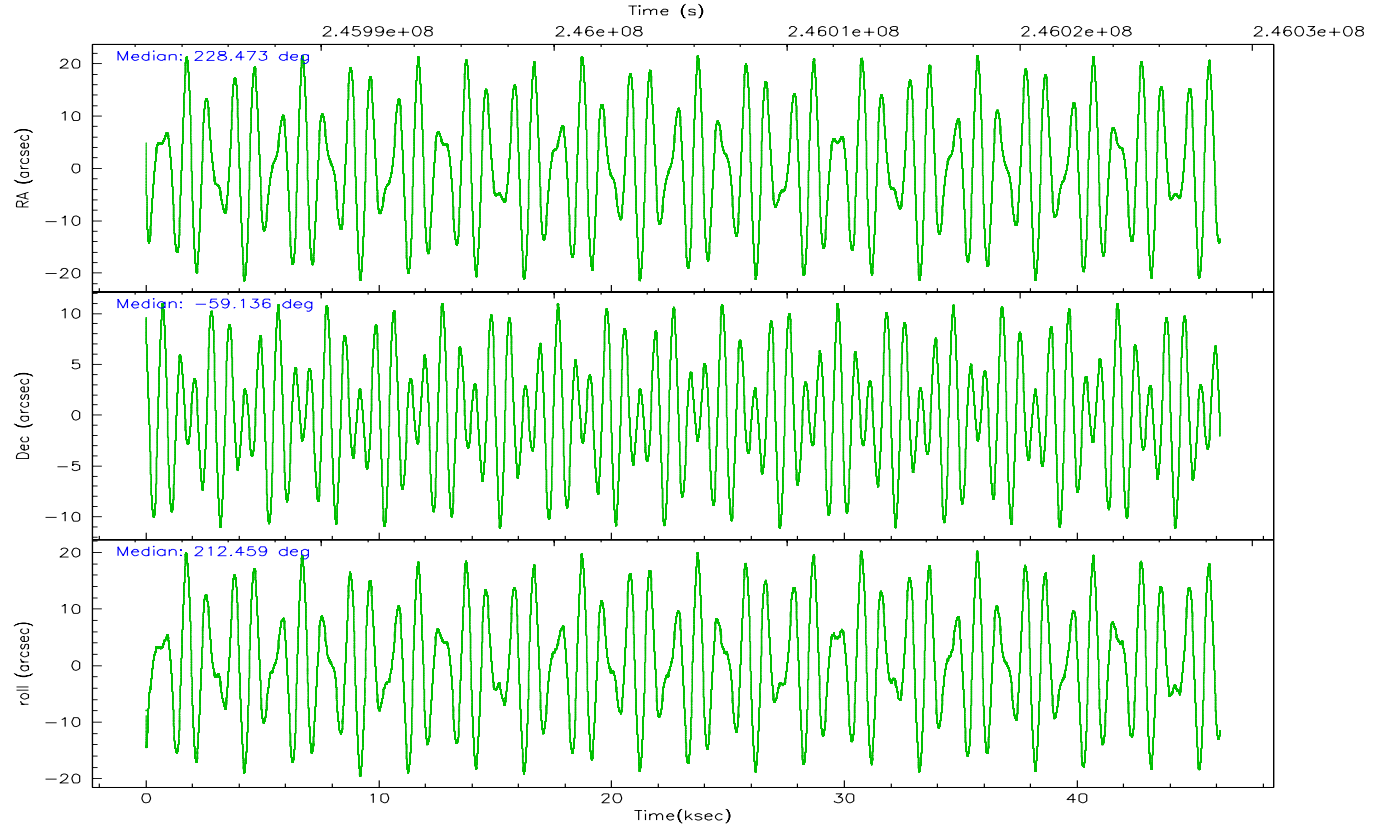


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-012367	ACIS-012367	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	228.497224	228.4727617658572	Alternating exposures requested	N	N
Pointing Dec	-59.112241	-59.13656093817557	Primary exposure time	0.000000	3.2
Pointing Roll	212.277273	212.4649530507405			
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	245982616.184000	245981561.22914			
Observation start date	2005-10-18T00:29:12	2005-10-18T00:12:41			
Observation end time	246028616.184000	246029276.51884			
Observation end date	2005-10-18T13:15:52	2005-10-18T13:27:56			
Read mode	TIMED	TIMED			

## 2.3 Aspect



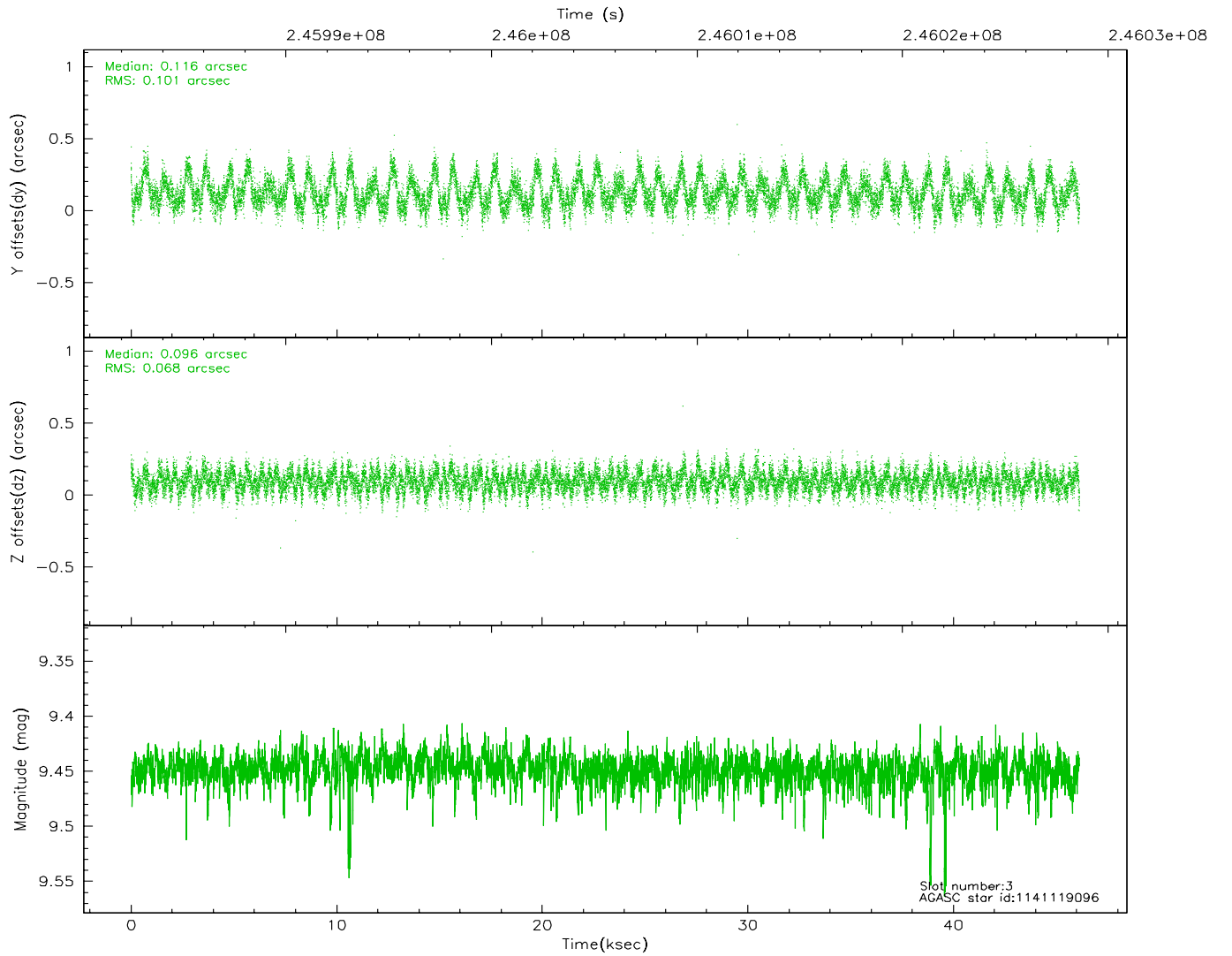
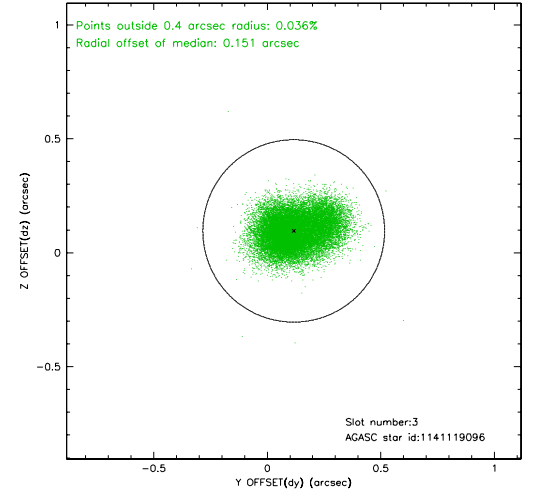
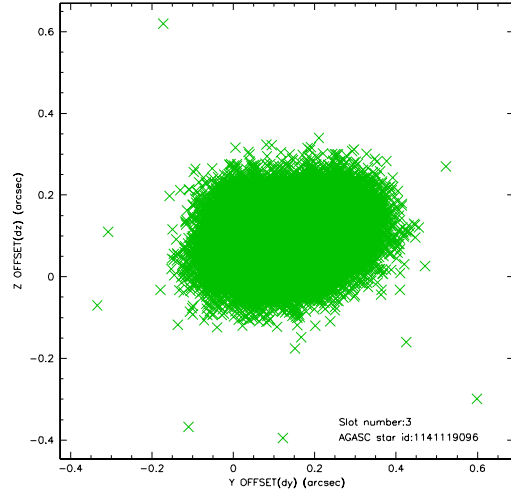


### Slot Statistics

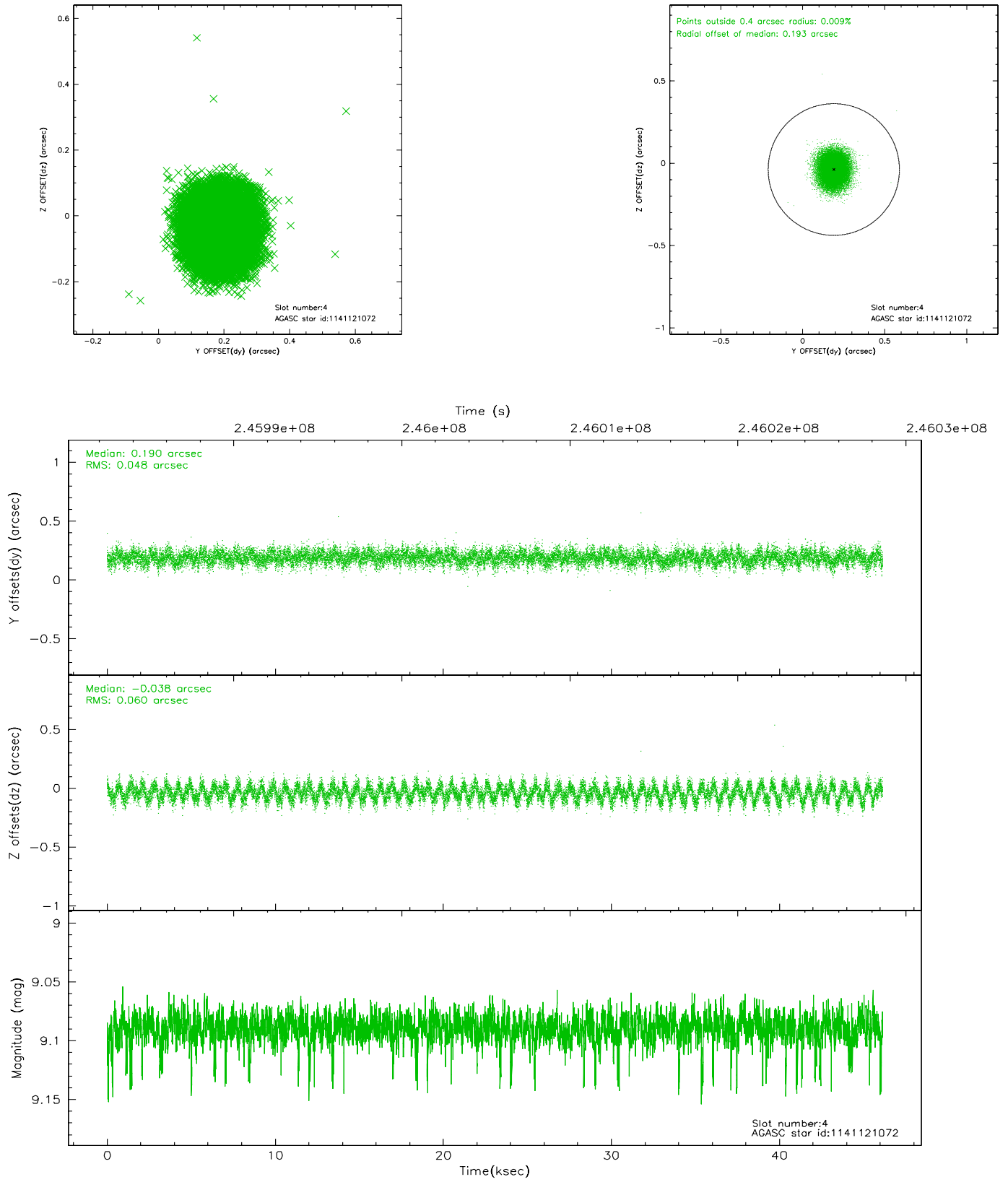
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.24	11256	0.029	0.002	0.011	0.026	0.000000	0.000000	932.79	-835.12
1	FID	ACIS-I-5	7.23	11257	-0.135	0.058	0.009	0.026	0.000000	0.000000	-1815.44	1062.49
2	FID	ACIS-I-6	7.25	11257	0.015	0.012	0.015	0.028	0.000000	0.000000	398.39	1706.90
3	GUIDE	1141119096	9.45	22484	0.116	0.096	0.130	0.208	228.052751	-59.529718	1490.60	840.27
4	GUIDE	1141121072	9.09	22507	0.190	-0.038	0.083	0.130	227.898628	-59.420815	1523.52	358.33
5	GUIDE	1141116568	8.51	22510	-0.081	0.029	0.160	0.224	228.578452	-58.520066	-1267.16	-1720.66
6	GUIDE	1141113152	8.72	22507	-0.068	-0.056	0.071	0.114	228.952453	-58.305202	-2277.71	-1994.30
7	GUIDE	1141119896	8.39	22506	-0.141	-0.019	0.078	0.130	229.637327	-59.405643	-1192.74	2023.71

## 2.4 Star Slots

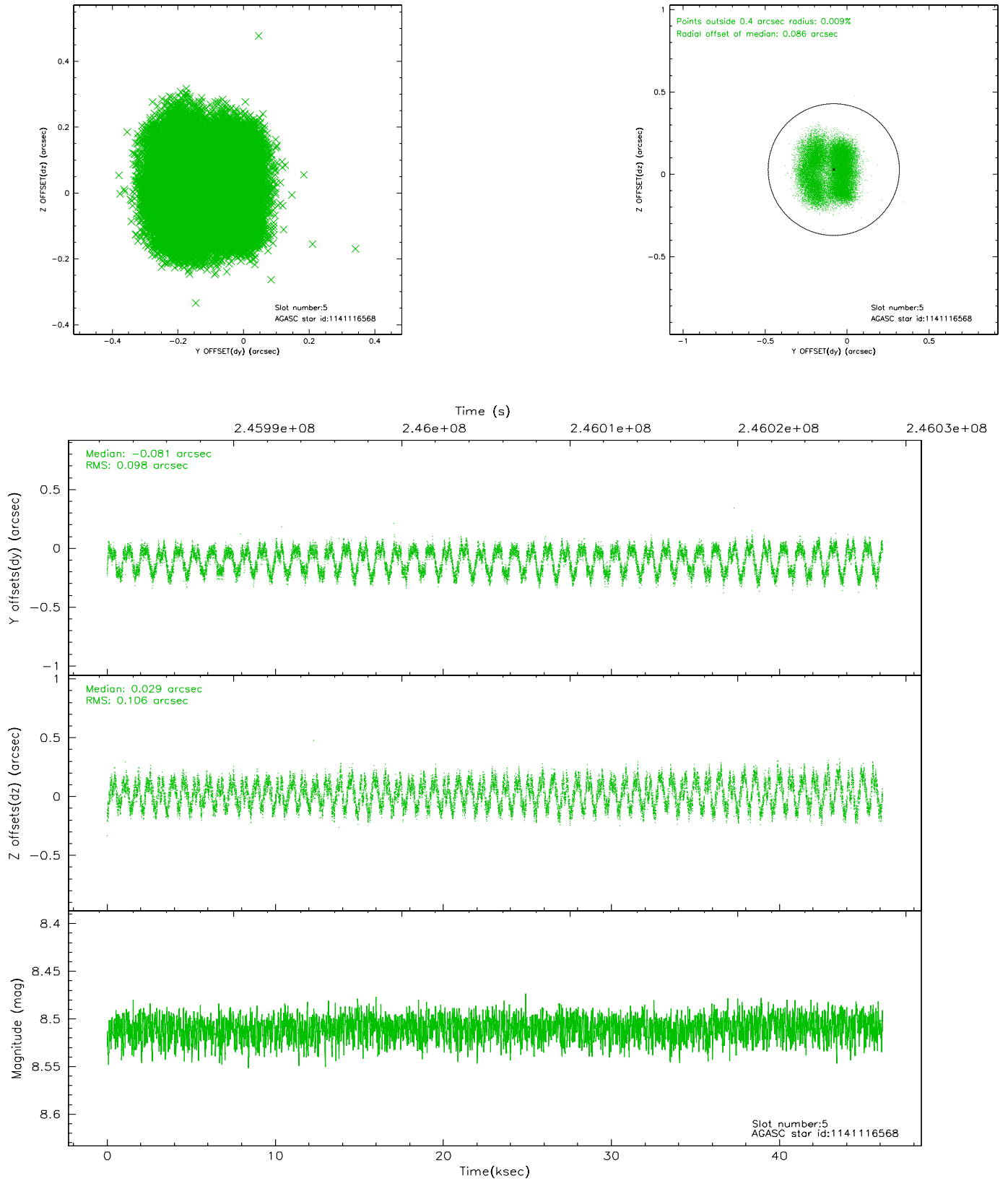
### 2.4.1 Slot 3



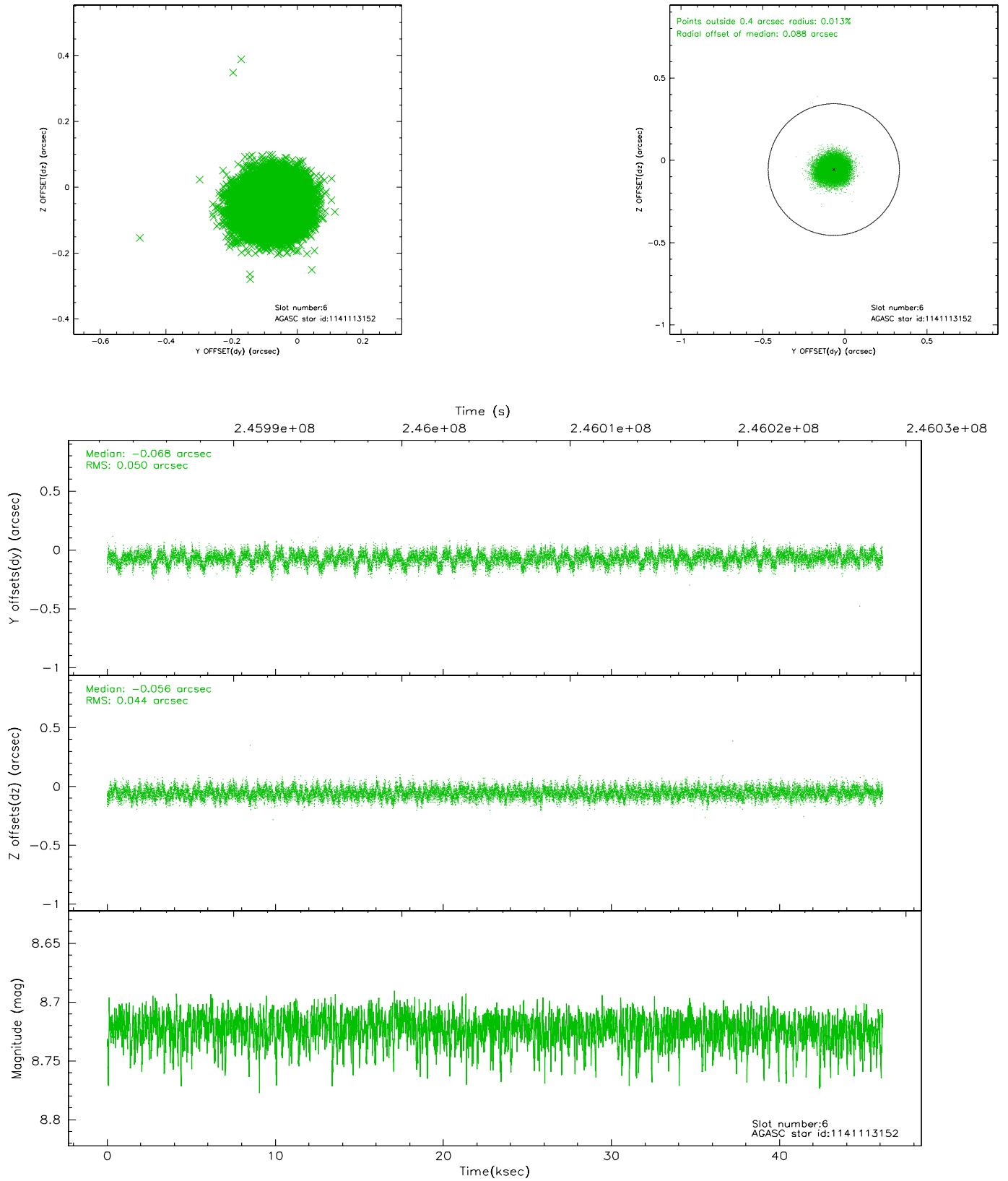
## 2.4.2 Slot 4



### 2.4.3 Slot 5

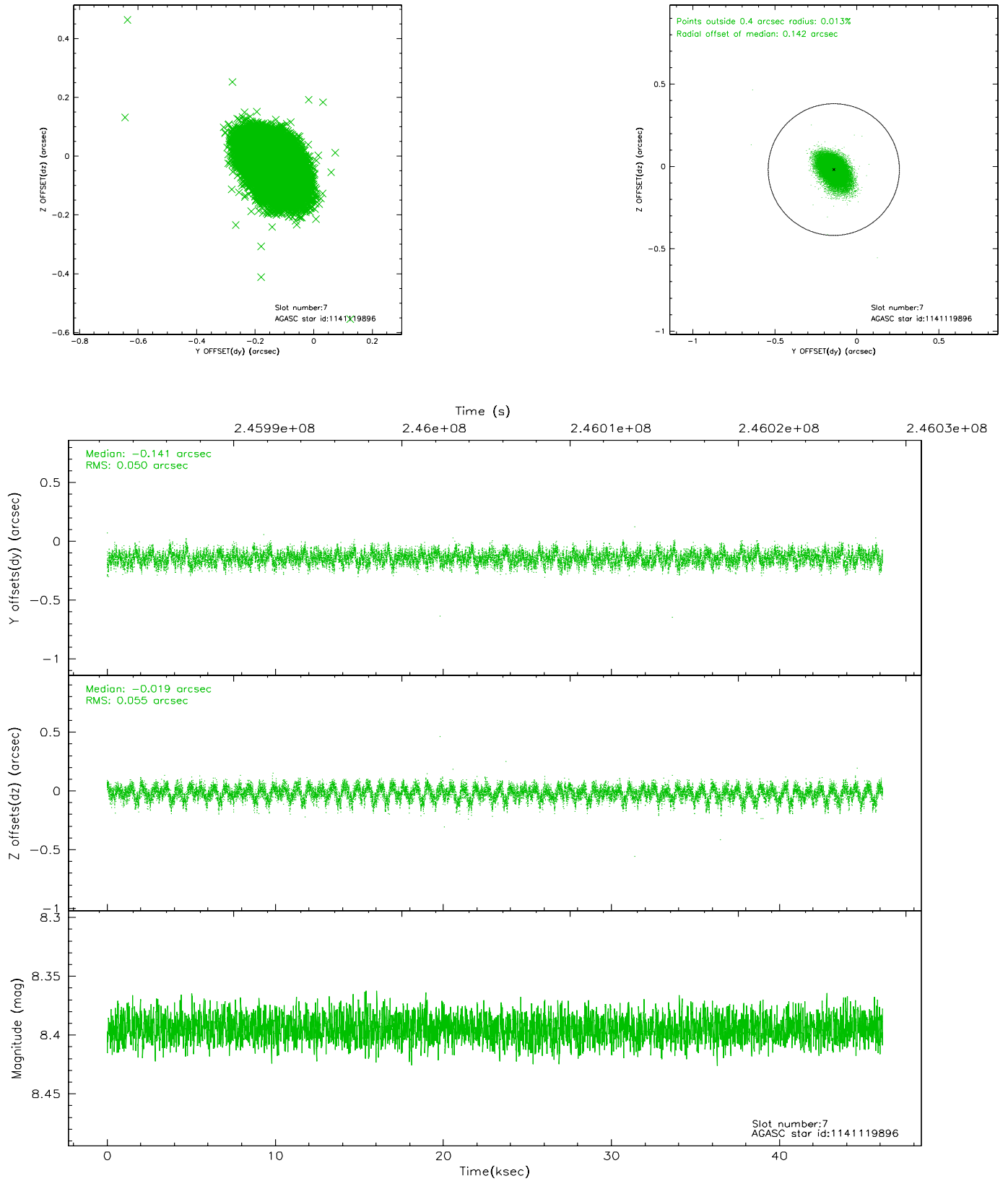


## 2.4.4 Slot 6



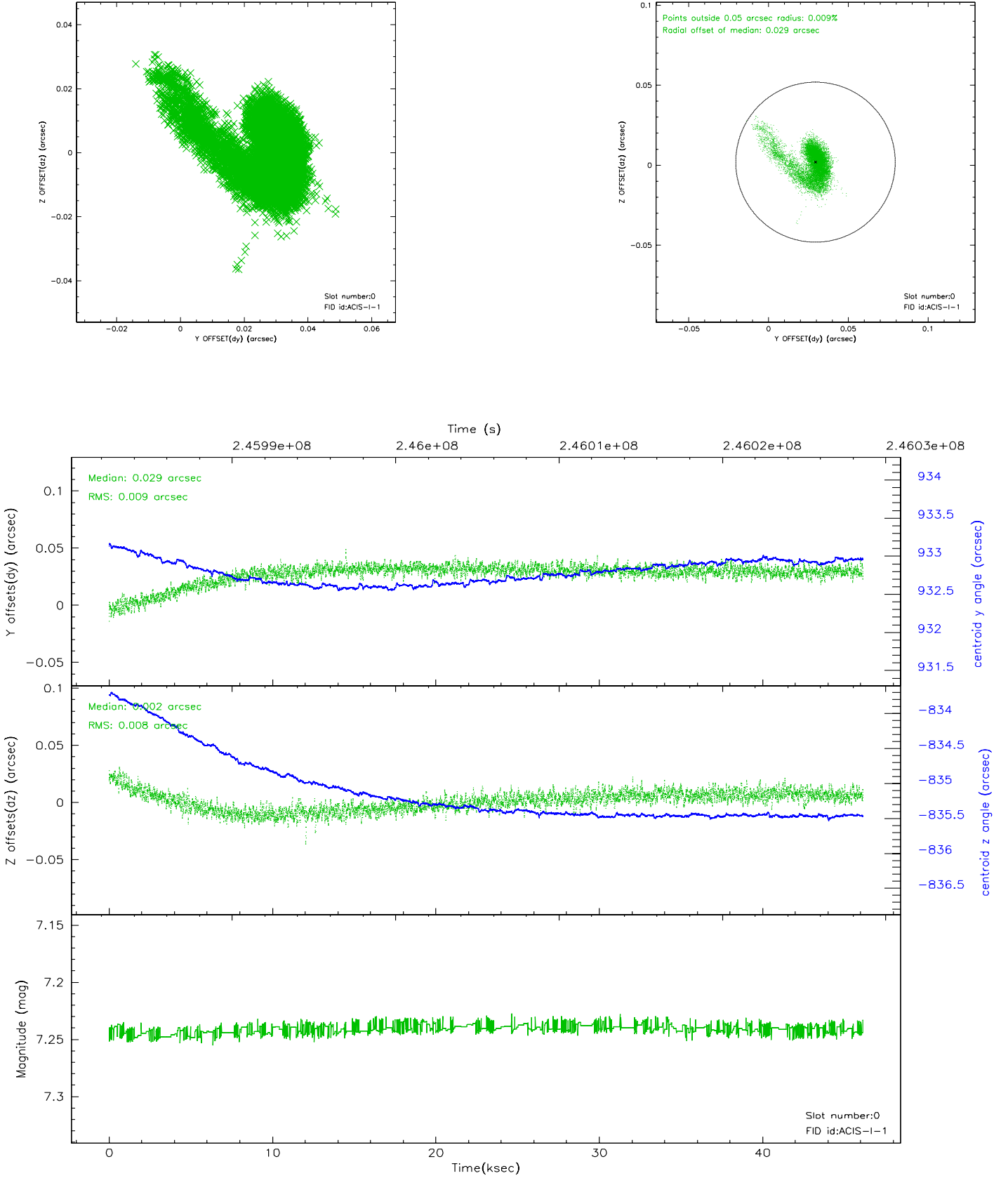


## 2.4.5 Slot 7

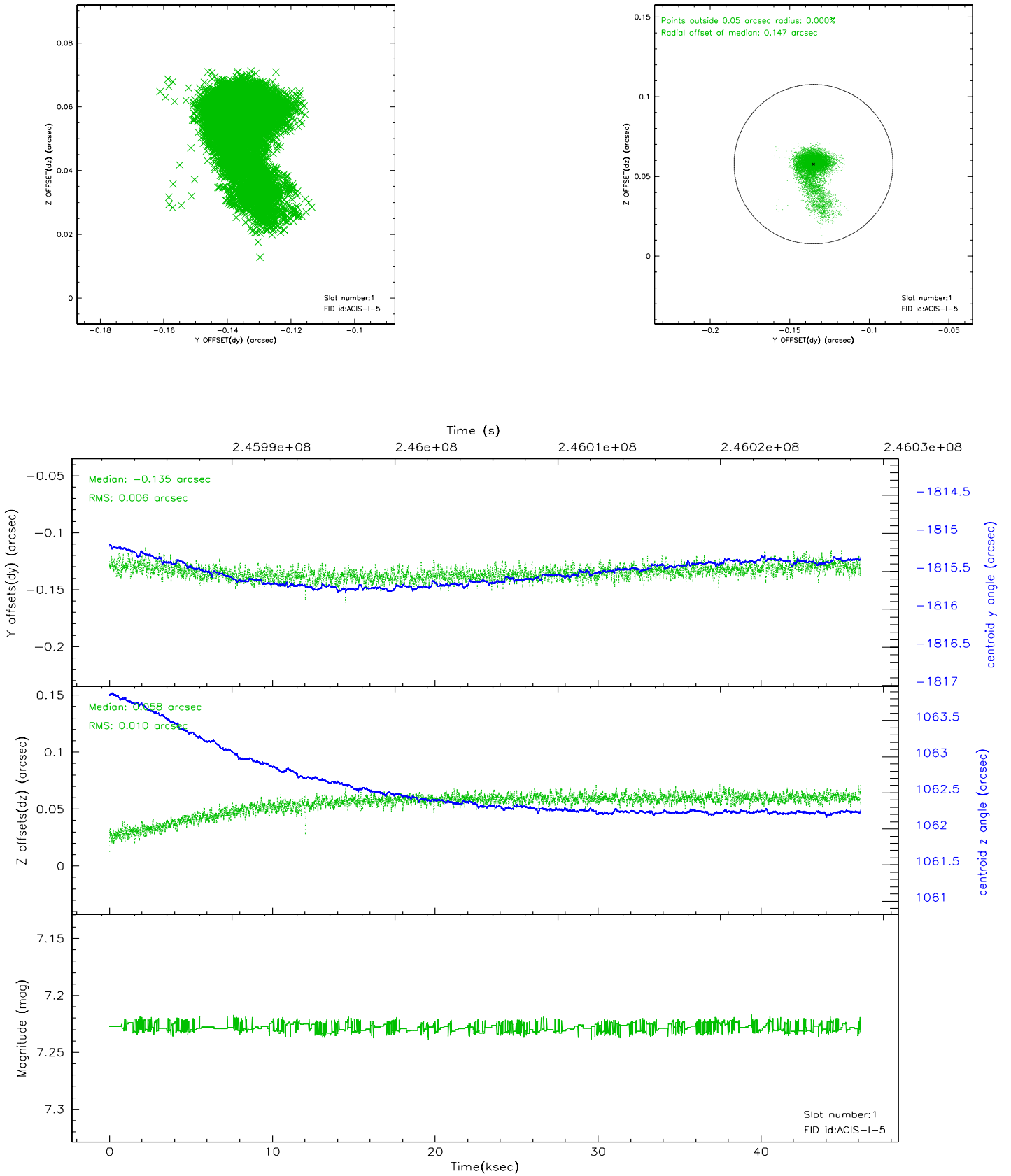


## 2.5 FID Slots

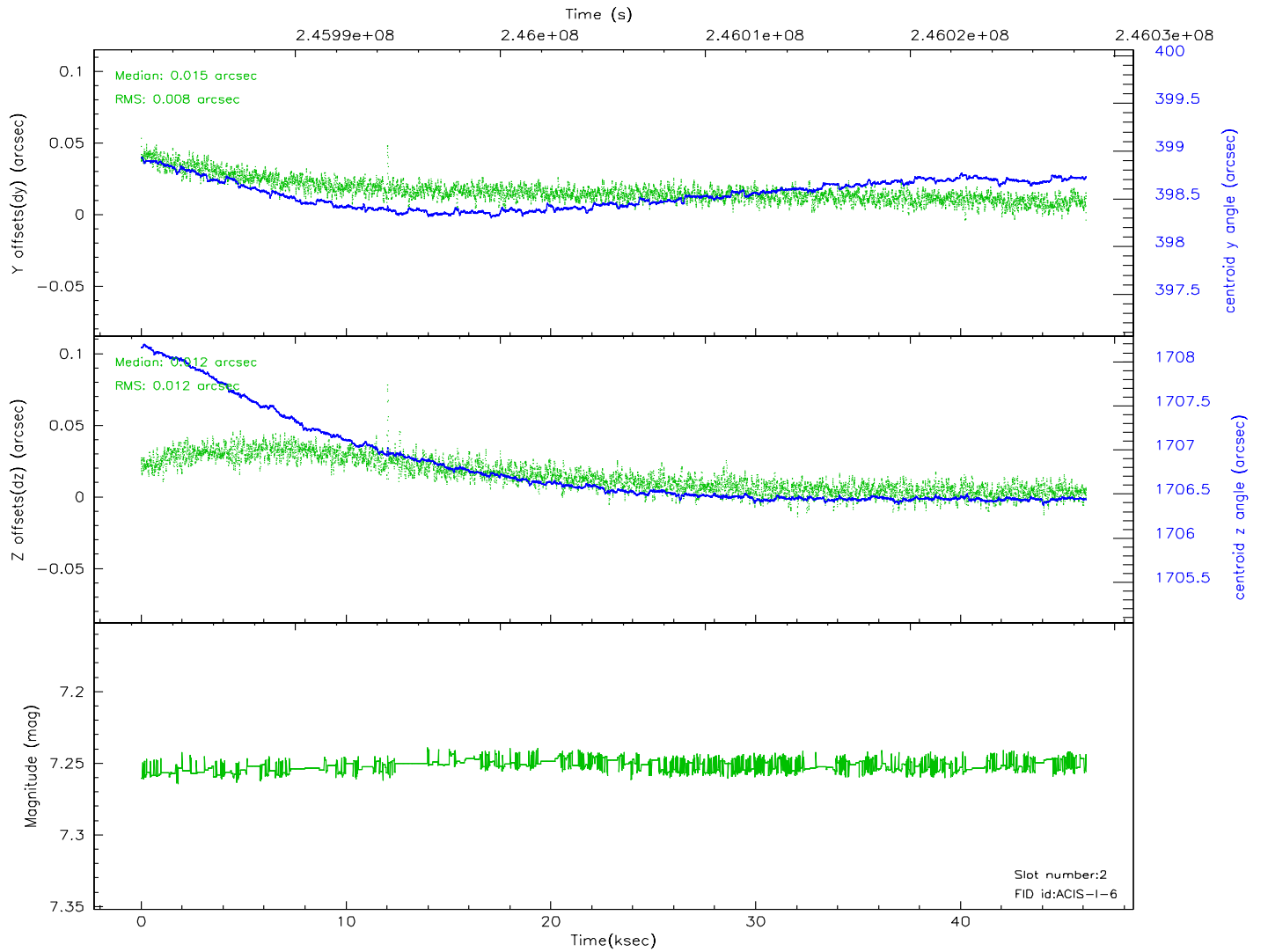
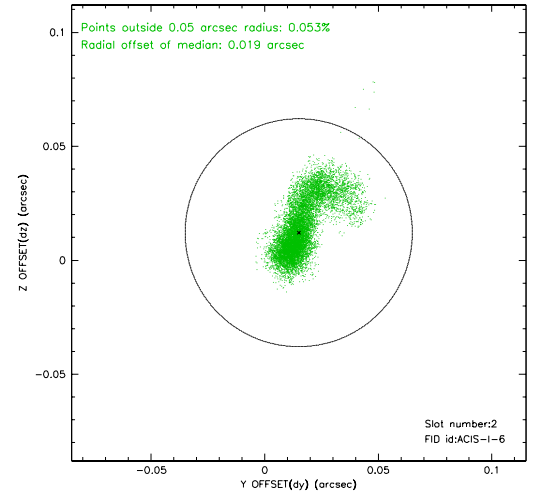
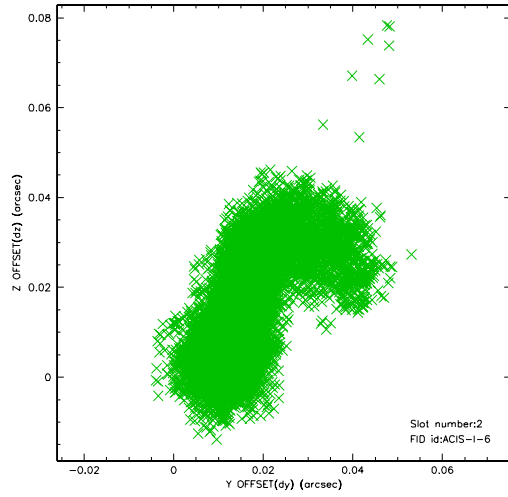
### 2.5.1 Slot 0



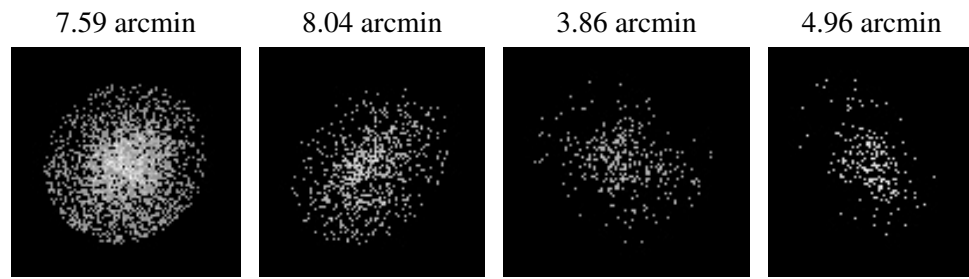
## 2.5.2 Slot 1



### 2.5.3 Slot 2



### 3 Point Sources



## A Summary

### A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2006.04.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	46.13747

### A.2 Comments

Monitor constraint met.