

# V&V Reference Report

## L2 ASCDS Version : 7.6.7.1

Observation 5021 - L2 Version 001  
Chandra X-Ray Center

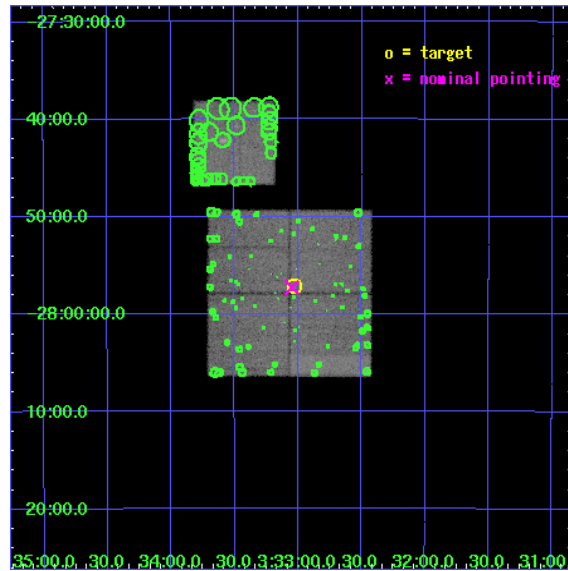
L2 Processing Date : Apr 12 2006

## 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

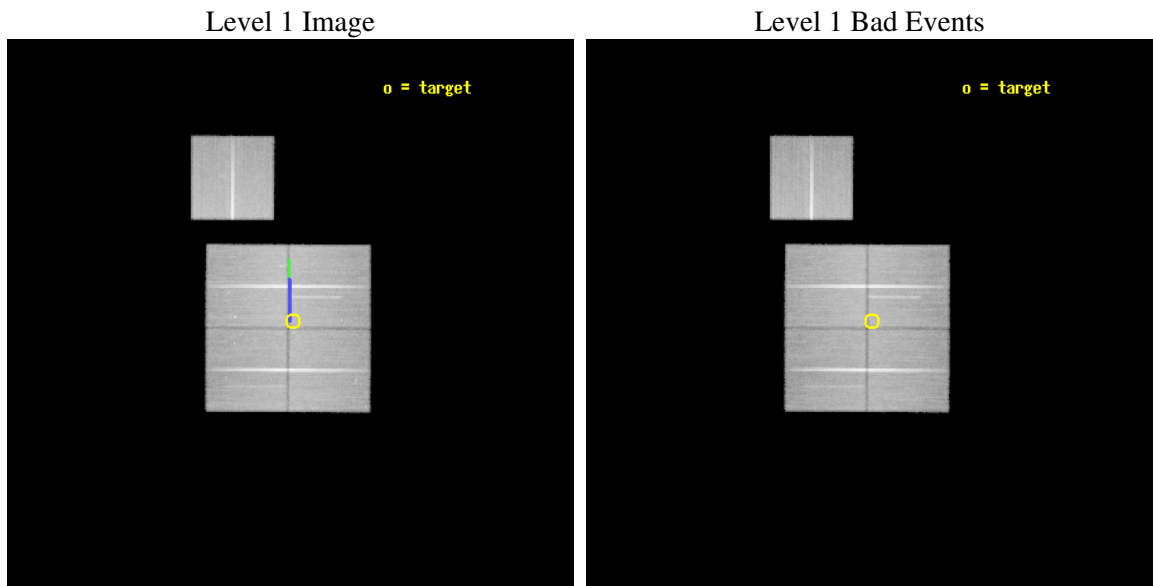
seq_num	900329
obs_id	5021
title	The Extended Chandra Deep Field-South Survey: A Public Chandra Legacy
observer	Prof. William Brandt
object	Extended CDF-S #4
dtcycle	0
cycle	P
ra_targ	53.2574
dec_targ	-27.95267
ra_nom	53.262222411166
dec_nom	-27.954467574234
roll_nom	0.2109431422698
revision	2
ontime	99072.408006698
livetime	97777.954060045
ontime0	99072.408016711
ontime1	99084.97204721
ontime2	99072.408106267
ontime3	99072.408006698
ontime6	99075.549016774
l2events	271476



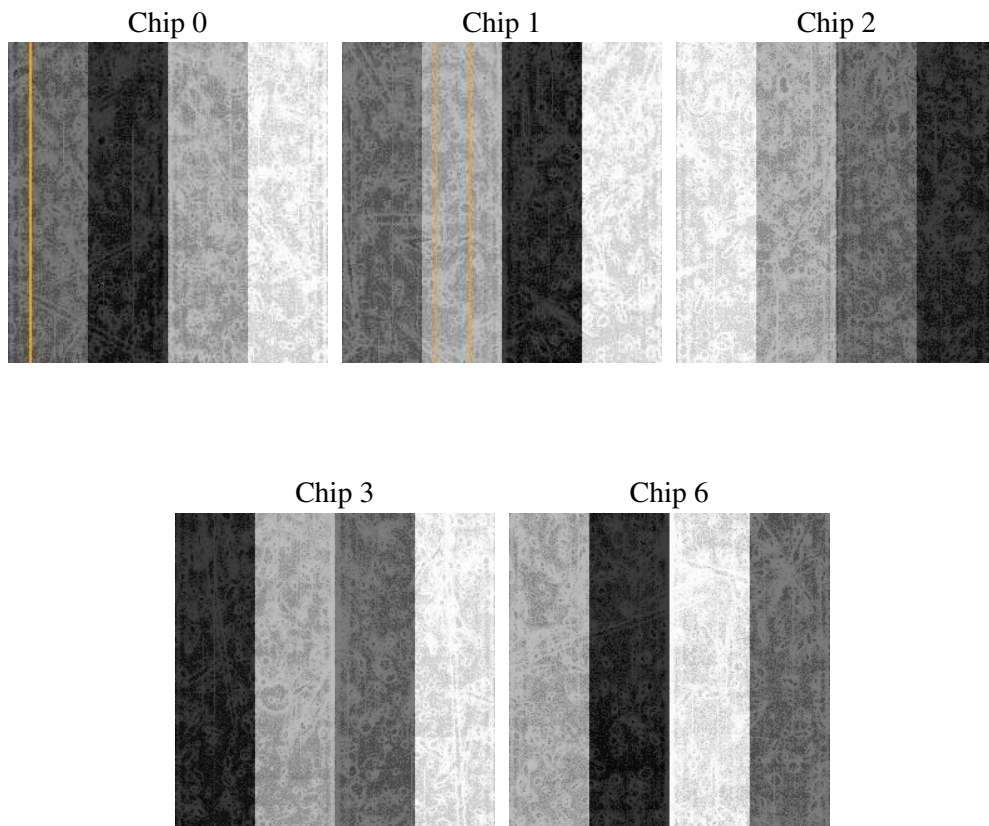
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	2
ascdsver	7.6.7.1
caldbver	3.2.1
date	2006-04-12T09:06:08
revision	2

sched_exp_time	99058.599000
ontime	99076.832063138
ontime0	99076.832073152
ontime1	99089.39610365
ontime2	99076.832162708
ontime3	99076.832063138
ontime6	99079.973073214
l1events	2926971

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	544721	563340	629229	590370	599311
rejected events	479827	491021	561416	531862	531589
rejected %	88%	87%	89%	90%	88%

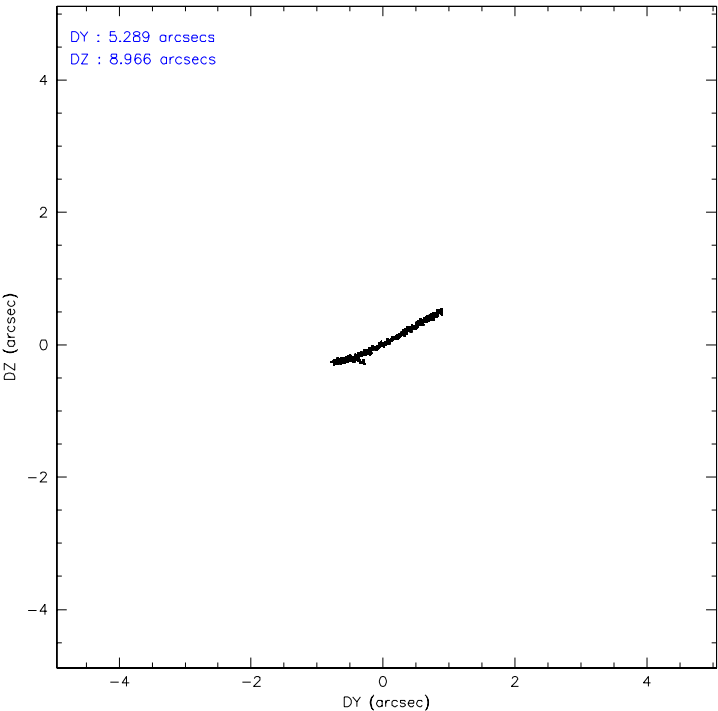
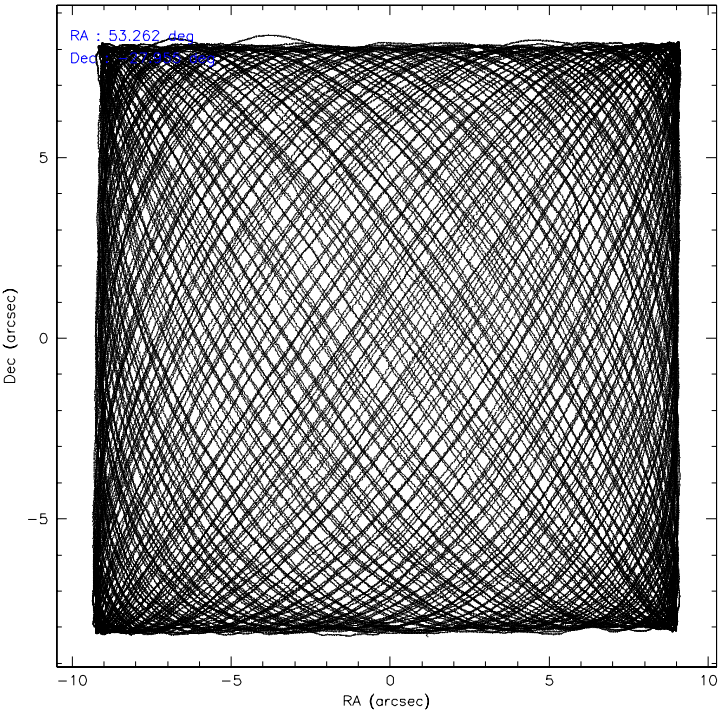
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	23710	27918	26595	21397	25336
	4%	4%	4%	3%	4%
grade 1 events	314	266	345	327	264
	0%	0%	0%	0%	0%
grade 2 events	16141	15803	16371	12687	15240
	2%	2%	2%	2%	2%
grade 3 events	6826	7372	6323	6468	6777
	1%	1%	1%	1%	1%
grade 4 events	6211	7316	6869	6508	6636
	1%	1%	1%	1%	1%
grade 5 events	20010	21389	18804	22487	22233
	3%	3%	2%	3%	3%
grade 6 events	12007	13913	11661	11449	13734
	2%	2%	1%	1%	2%
grade 7 events	459502	469363	542261	509047	509091
	84%	83%	86%	86%	84%

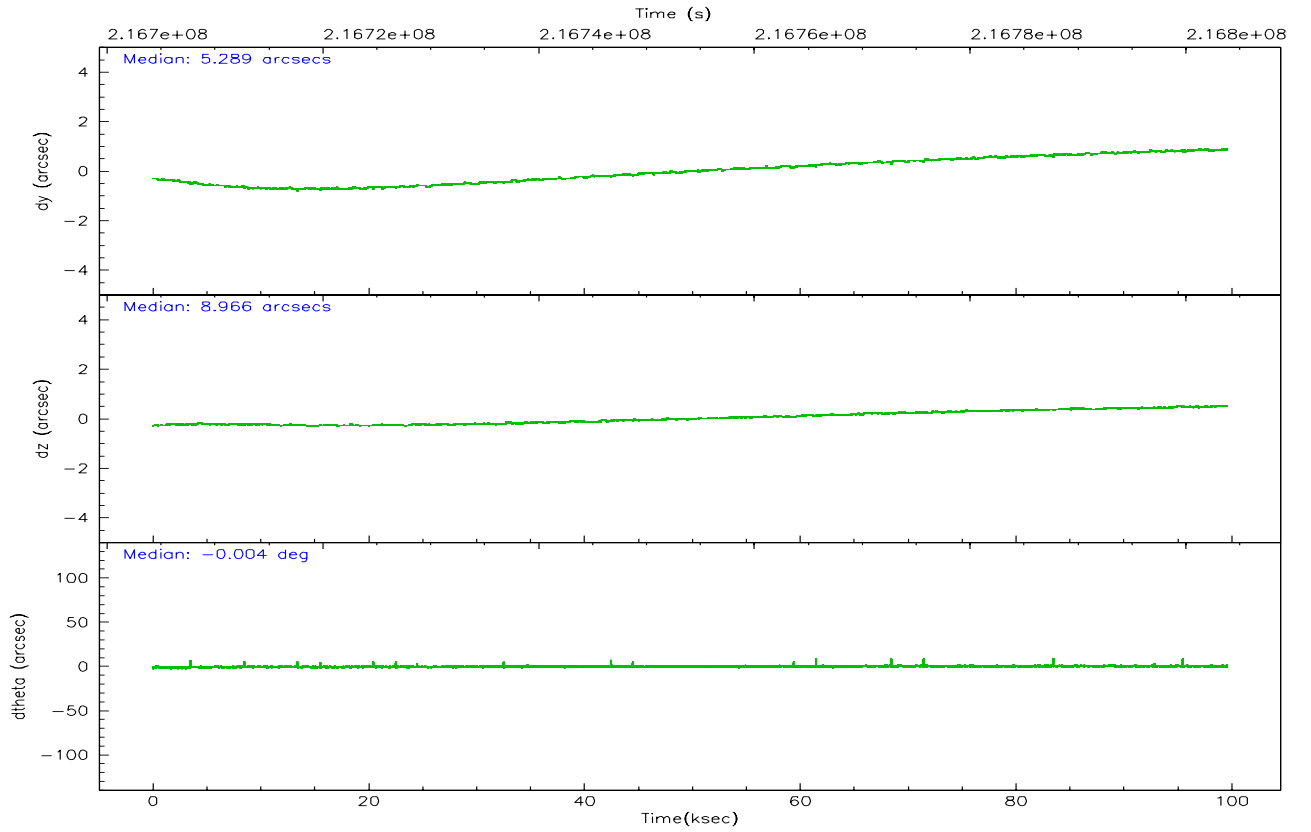
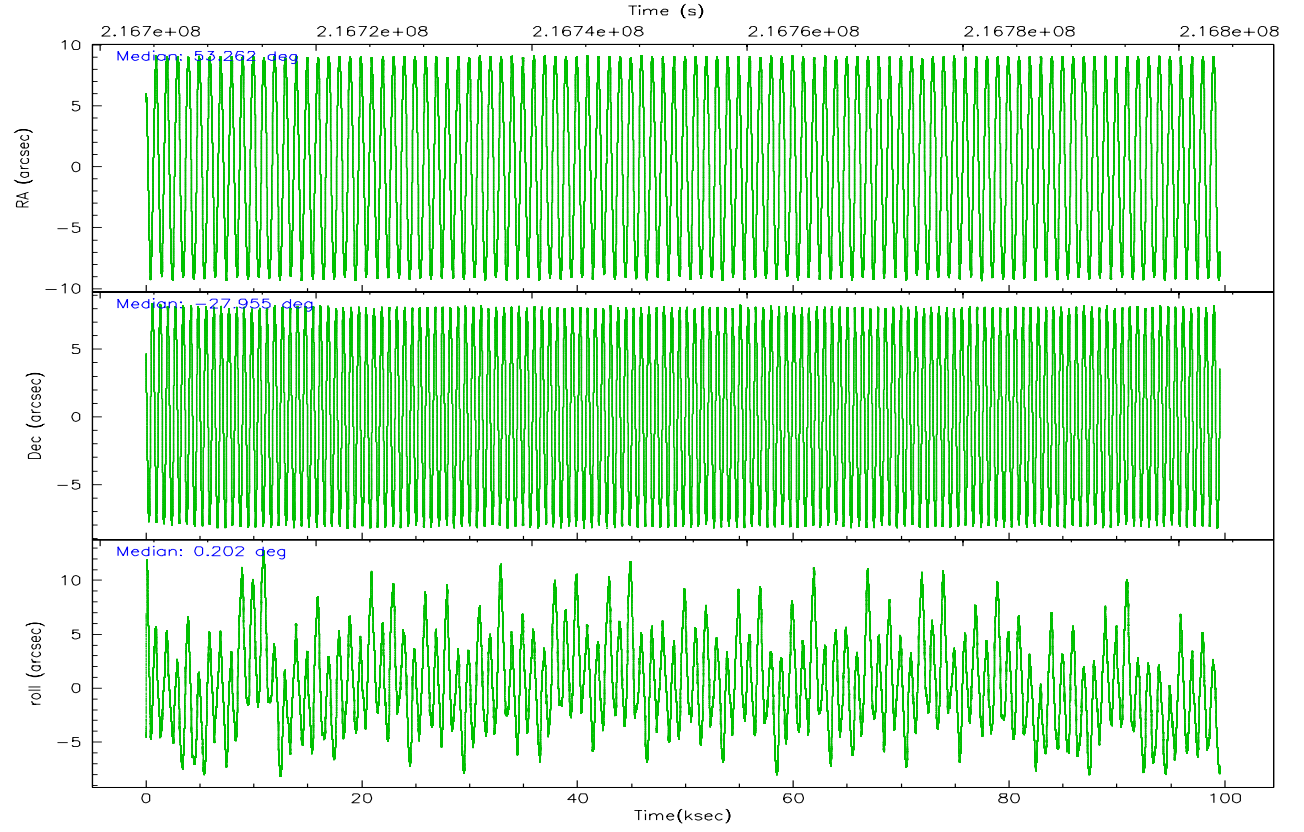


## 2.2 Compared Parameters

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	53.235516	53.26222241116597	Alternating exposures requested	N	N
Pointing Dec	-27.968328	-27.95446757423431	Primary exposure time	0.000000	3.1
Pointing Roll	359.989737	0.2109431422697993			
Roll angle	0.000000	0.000000			
Roll tolerance	2.000000	2.000000			
Roll constraint allows 180D rotation	N	N			
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	216704764.184000	216703675.65966			
Observation start date	2004-11-13T03:45:00	2004-11-13T03:27:55			
Observation end time	216803822.184000	216804059.03917			
Observation end date	2004-11-14T07:15:58	2004-11-14T07:20:59			
Read mode	TIMED	TIMED			

2.3 Aspect



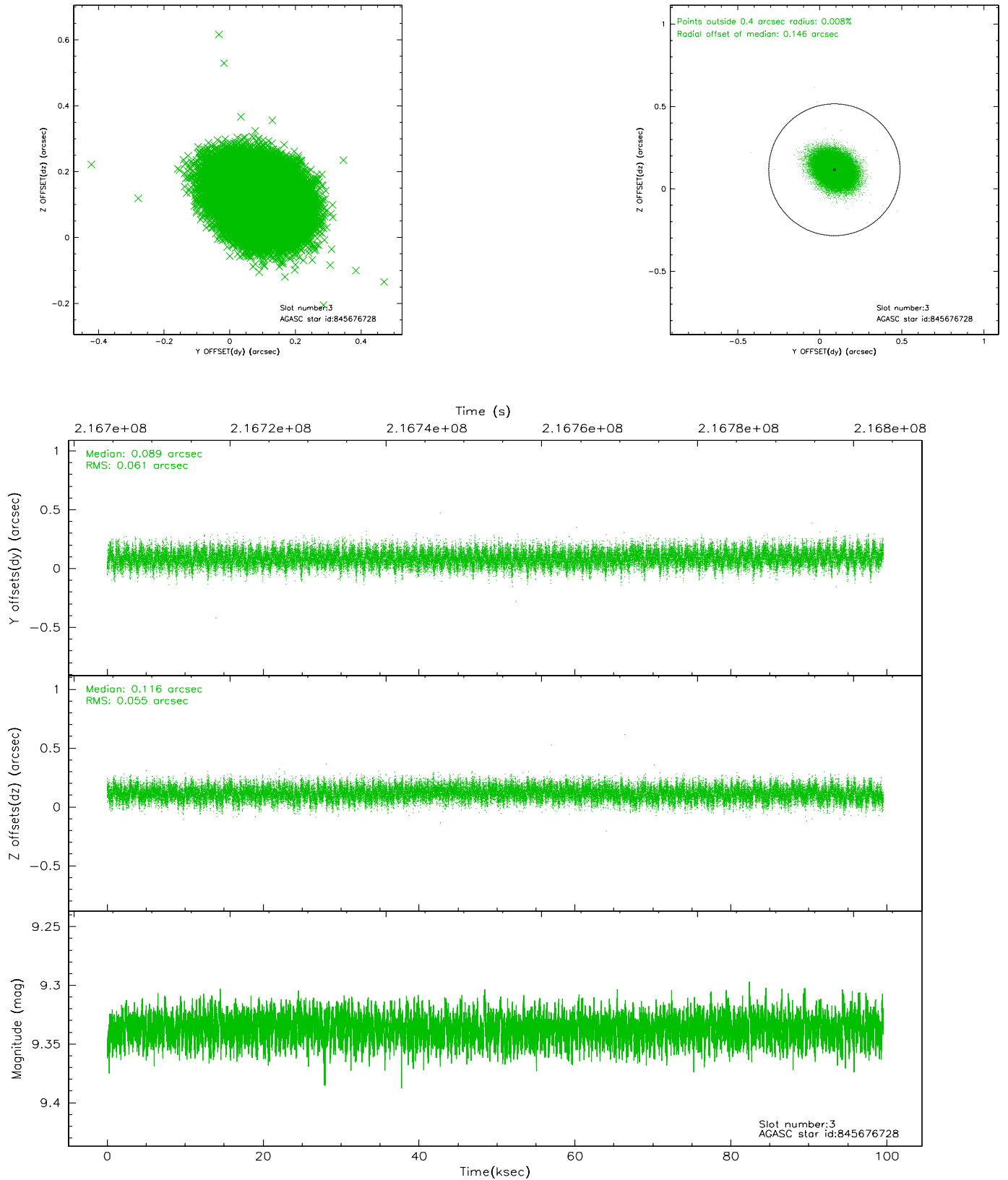


### Slot Statistics

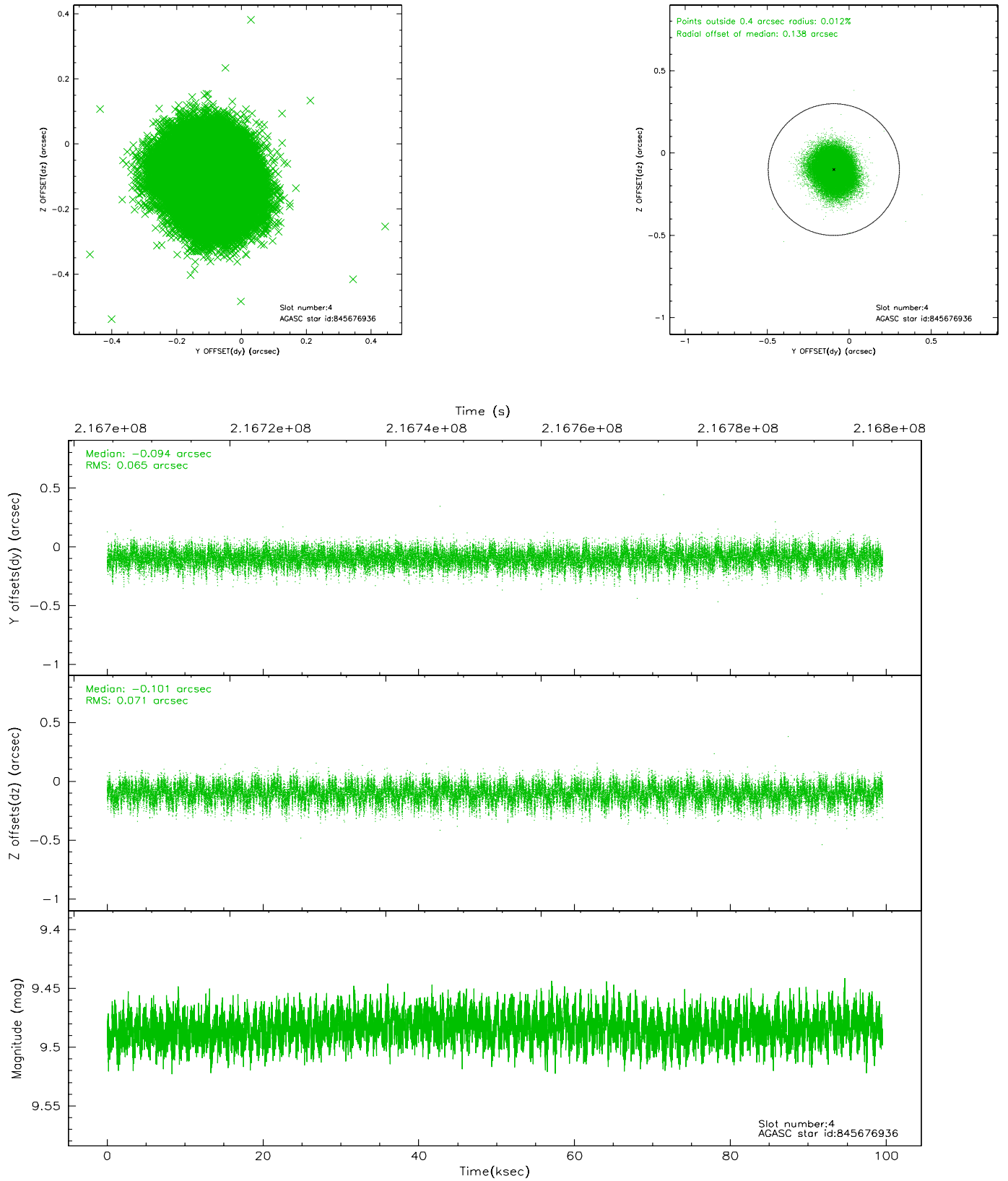
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.24	24256	0.034	0.029	0.015	0.024	0.000000	0.000000	934.50	-832.39
1	FID	ACIS-I-5	7.23	24253	-0.027	0.096	0.019	0.025	0.000000	0.000000	-1813.80	1065.09
2	FID	ACIS-I-6	7.24	24252	-0.087	-0.055	0.022	0.037	0.000000	0.000000	399.90	1709.44
3	GUIDE	845676728	9.34	48500	0.089	0.116	0.087	0.143	52.877179	-27.664318	-1142.44	1092.76
4	GUIDE	845676936	9.48	48510	-0.094	-0.101	0.104	0.165	52.843773	-27.880153	-1246.22	315.25
5	GUIDE	845807880	8.81	48525	-0.009	-0.111	0.079	0.124	53.382027	-27.886093	466.46	296.07
6	GUIDE	845814592	9.04	48498	0.037	0.016	0.094	0.150	53.853010	-28.336603	1958.16	-1330.51
7	GUIDE	845816224	10.20	48476	-0.019	0.084	0.144	0.234	53.578992	-28.631005	1086.62	-2386.52

## 2.4 Star Slots

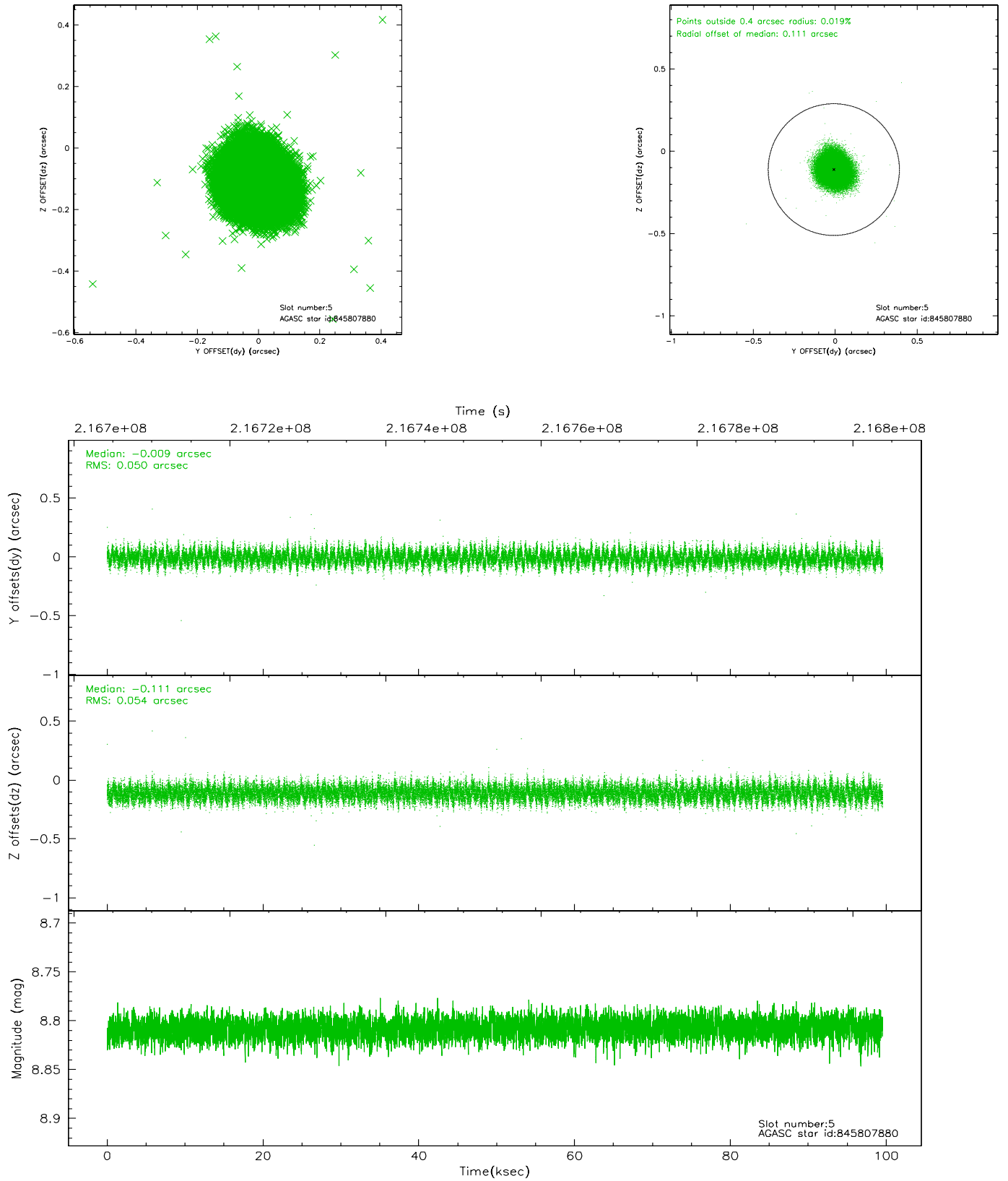
### 2.4.1 Slot 3



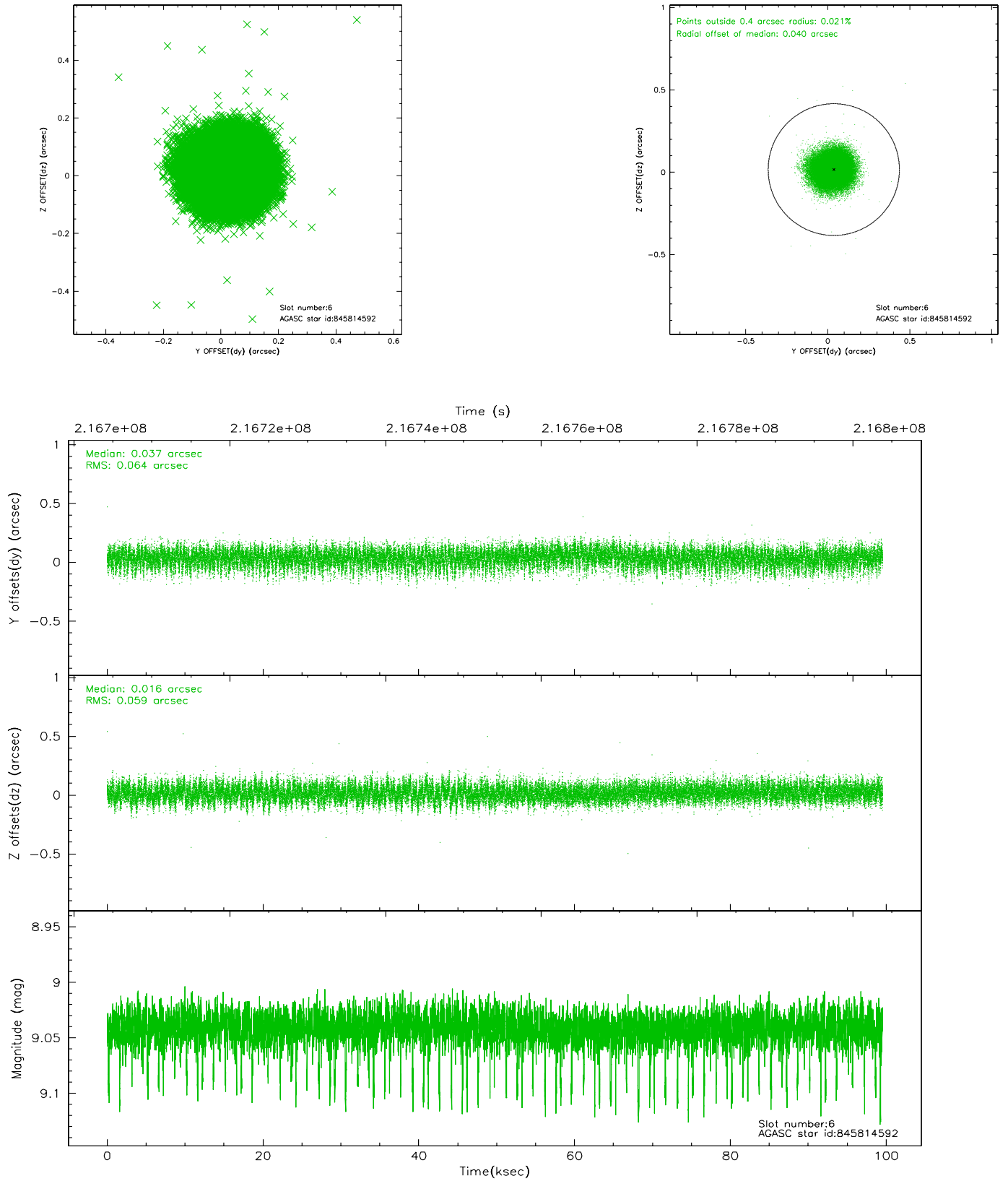
## 2.4.2 Slot 4



### 2.4.3 Slot 5

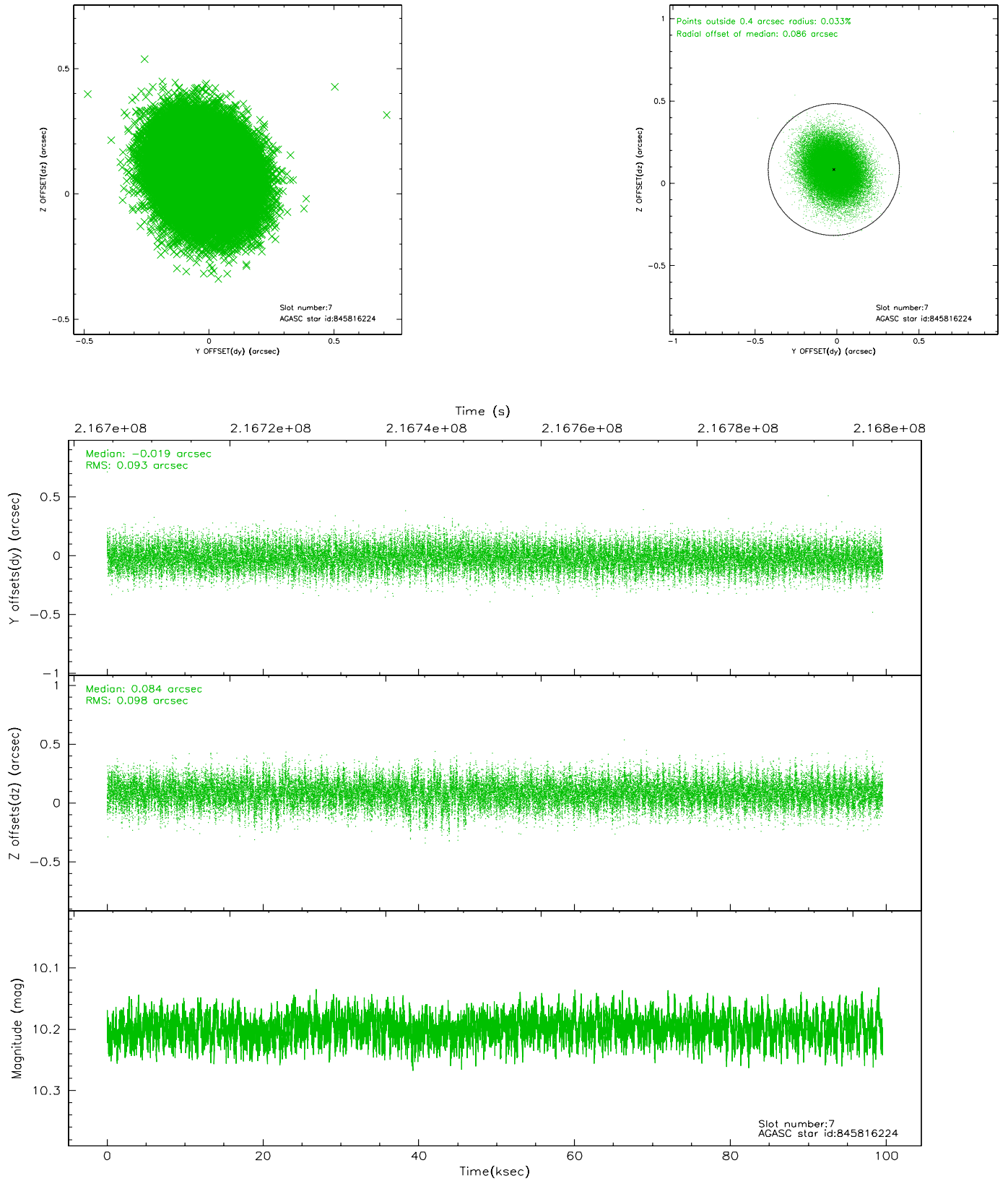


## 2.4.4 Slot 6



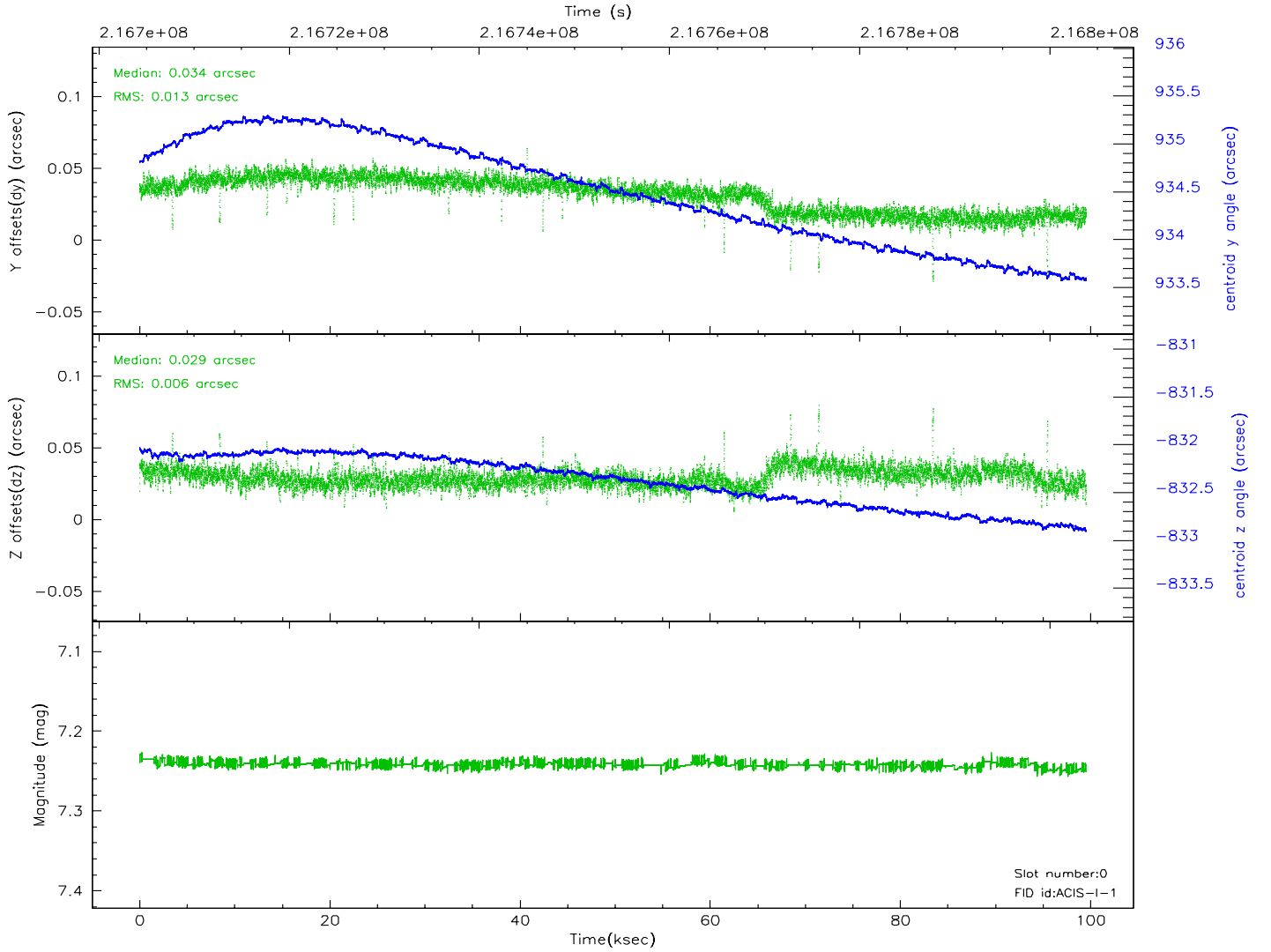
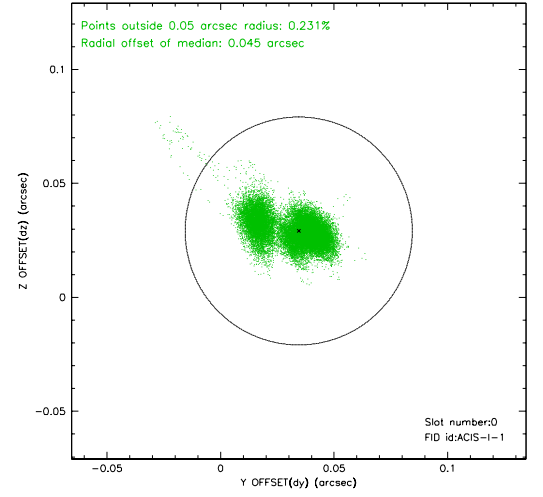
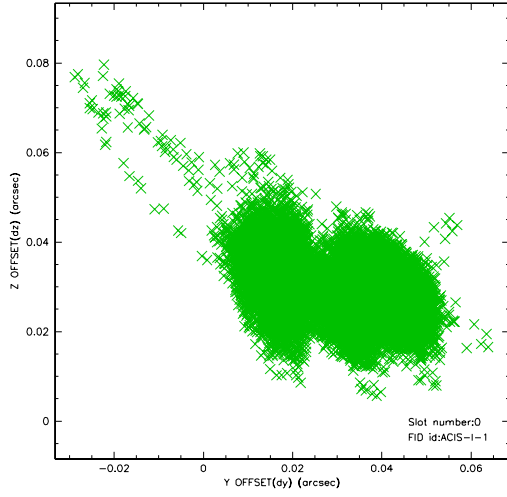


## 2.4.5 Slot 7

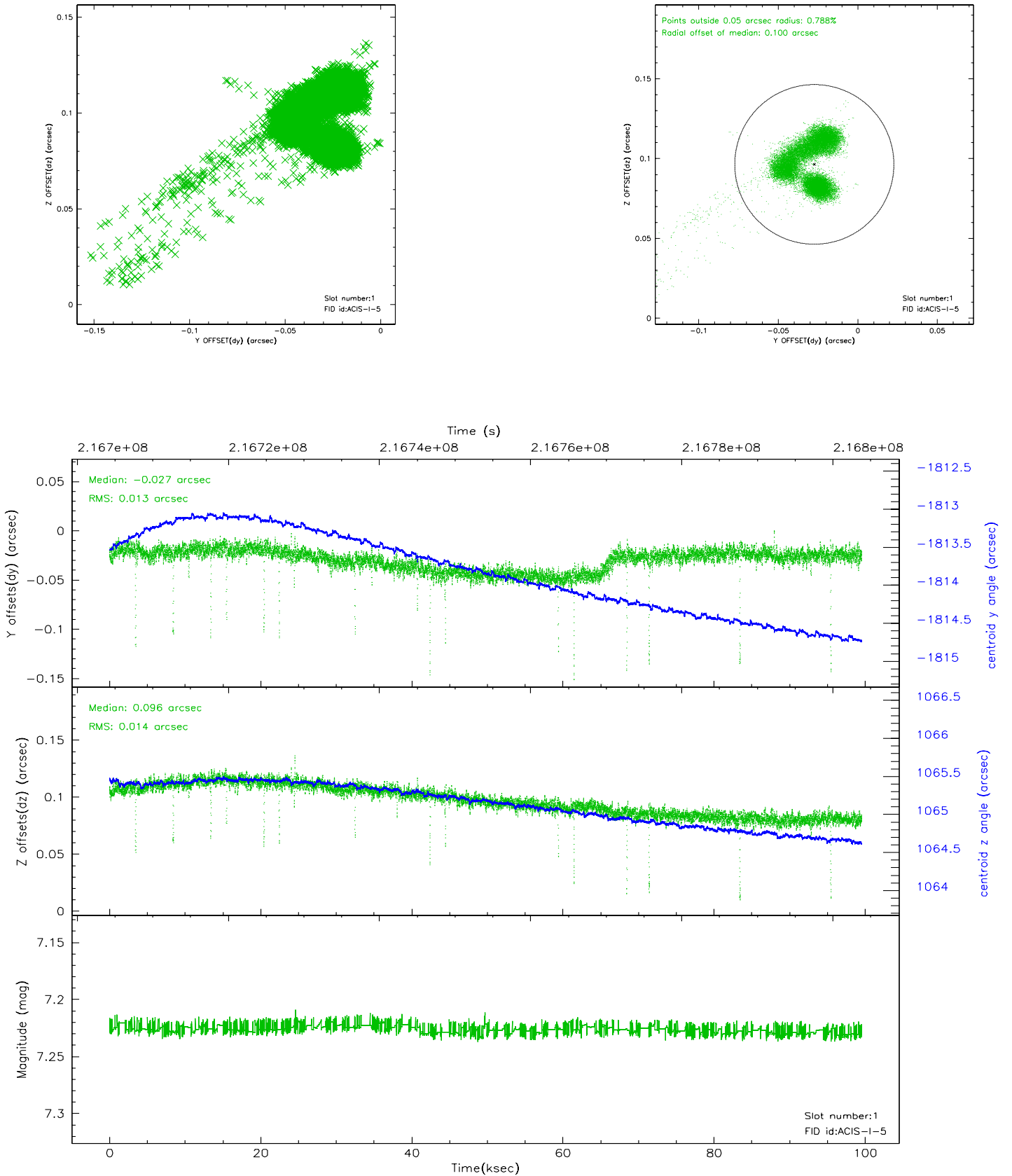


## 2.5 FID Slots

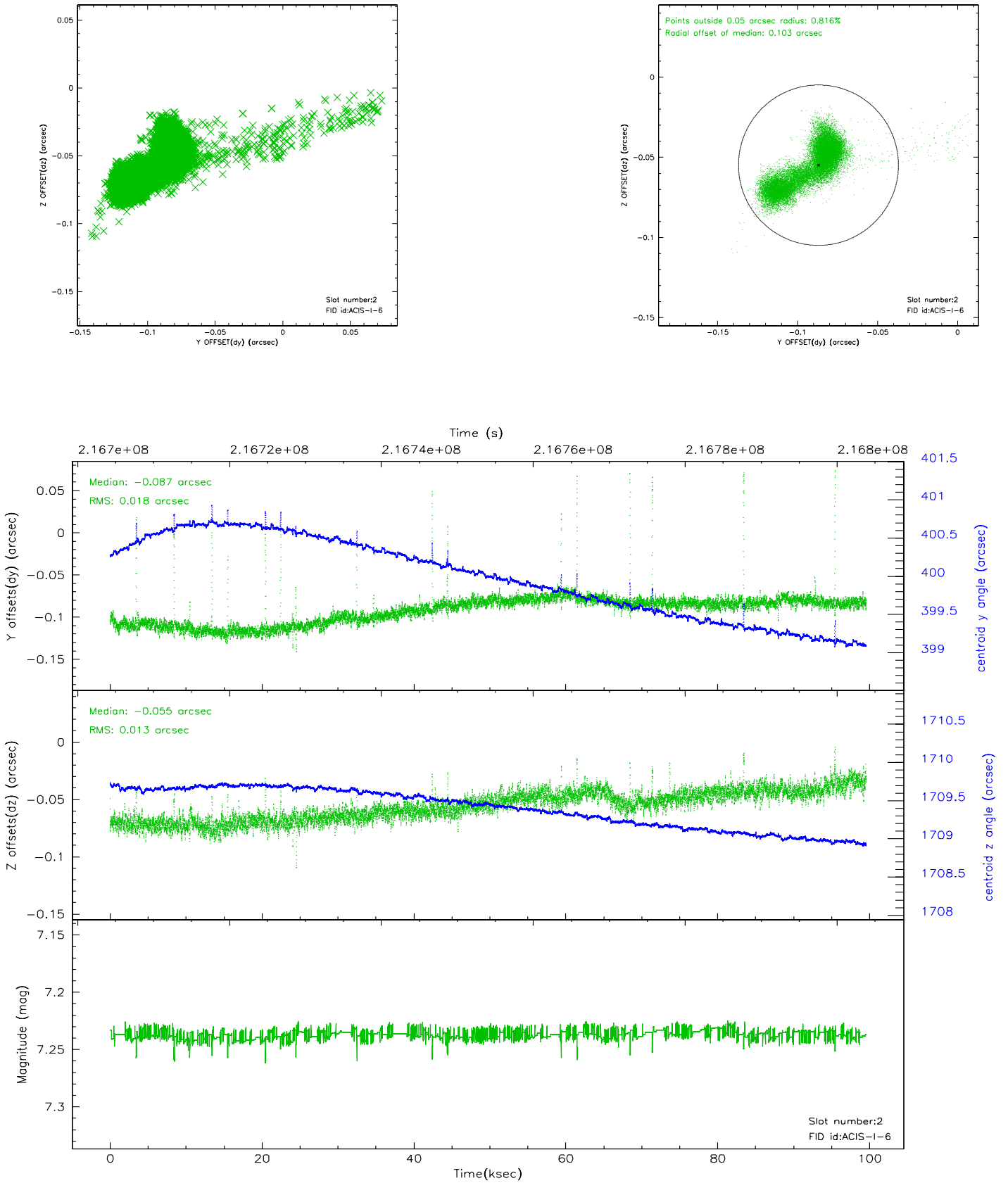
### 2.5.1 Slot 0



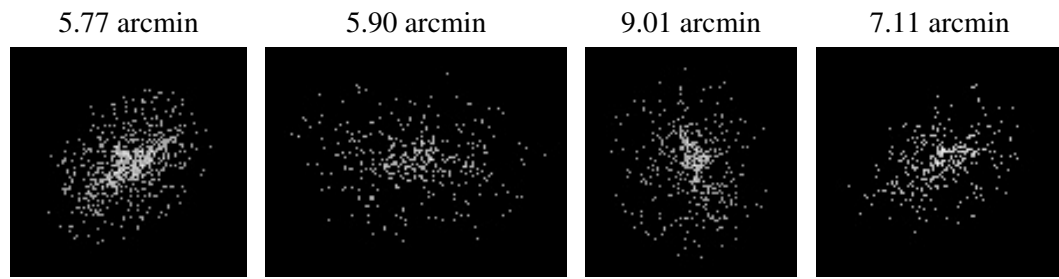
## 2.5.2 Slot 1



### 2.5.3 Slot 2



### 3 Point Sources



## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2006.04.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	99.072

### A.2 Comments

Window constraint satisfied.