

# V&V Reference Report

## L2 ASCDS Version : 7.6.9

Observation 3083 - L2 Version 001  
Chandra X-Ray Center

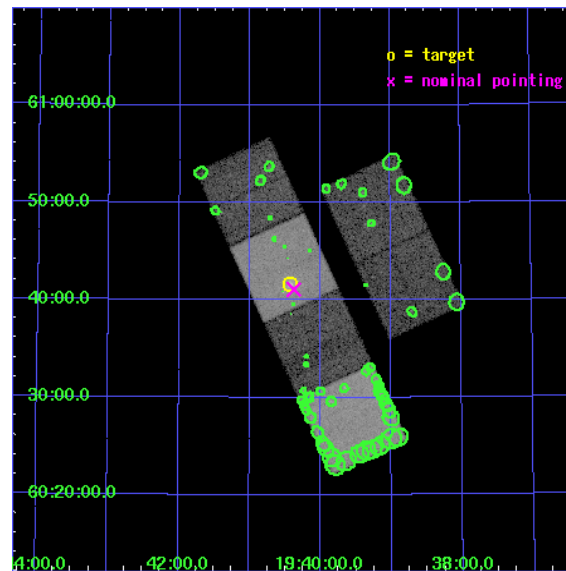
L2 Processing Date : Oct 4 2006

## 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

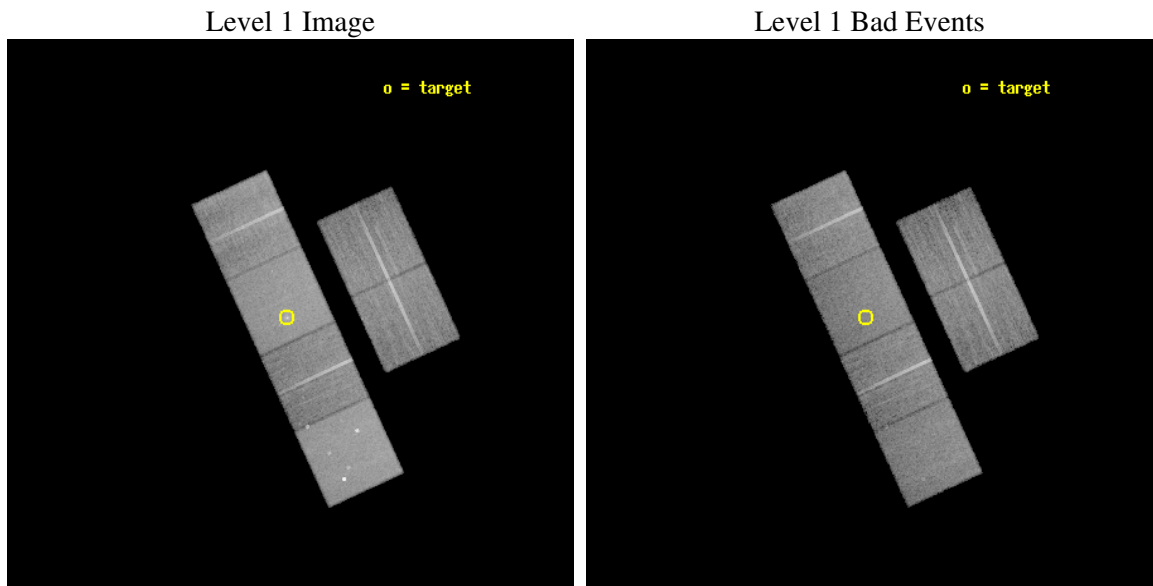
seq_num	700522
obs_id	3083
title	ACIS-S IMAGING-SPECTROSCOPY OF THREE INTERMEDIATE FRI/FRII RADIO GALAXIES
observer	Prof. Christopher Reynolds
object	3C401
dtcycle	0
cycle	P
ra_targ	295.104583
dec_targ	60.693056
ra_nom	295.09326473954
dec_nom	60.685093794279
roll_nom	245.26649261712
revision	2
ontime	22953.599914491
livetime	22662.947611375
ontime2	22953.599914491
ontime3	22953.599914491
ontime5	22953.599914491
ontime6	22953.599914491
ontime7	22953.599914491
ontime8	22950.359073788
l2events	228095



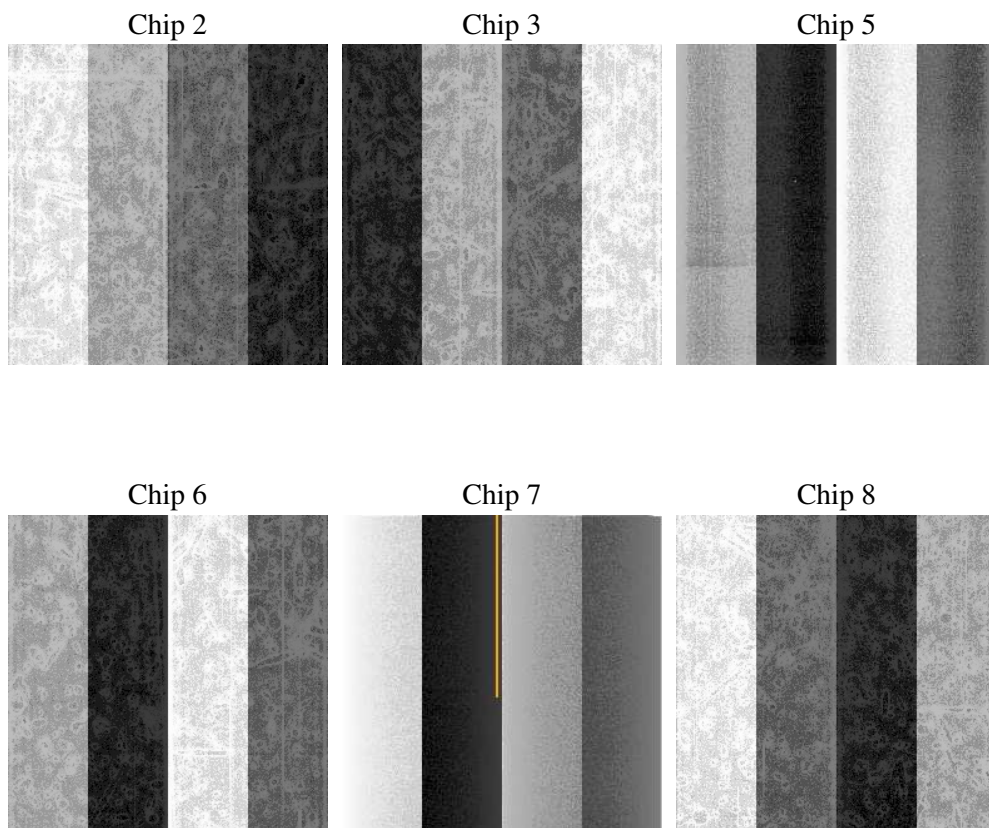
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0
ascdsver	7.6.9
caldsver	3.2.3
date	2006-10-04T14:58:26
revision	2

sched_exp_time	23200.000000
ontime	22959.249229819
ontime2	22959.249229819
ontime3	22959.249229819
ontime5	22959.249249727
ontime6	22959.249229819
ontime7	22959.249229819
ontime8	22956.008289486
l1events	1009483

### 2.1.4 Events

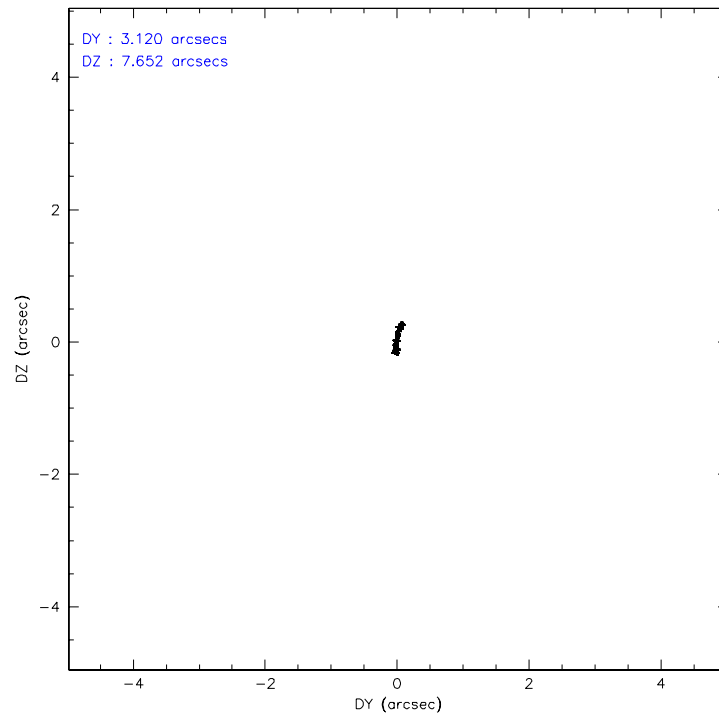
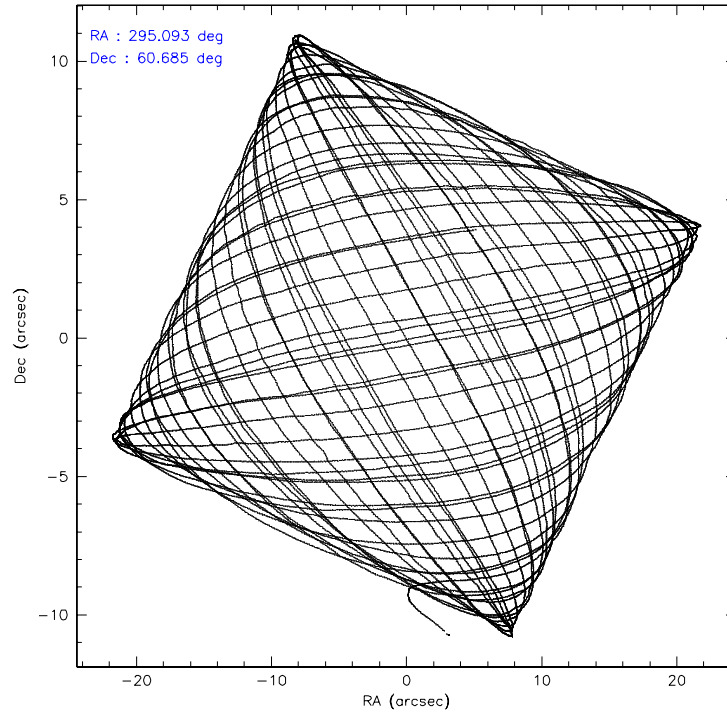
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	143617	138514	214884	139628	196301	176539
rejected events	127148	122292	115969	122447	116713	139948
rejected %	88%	88%	53%	87%	59%	79%

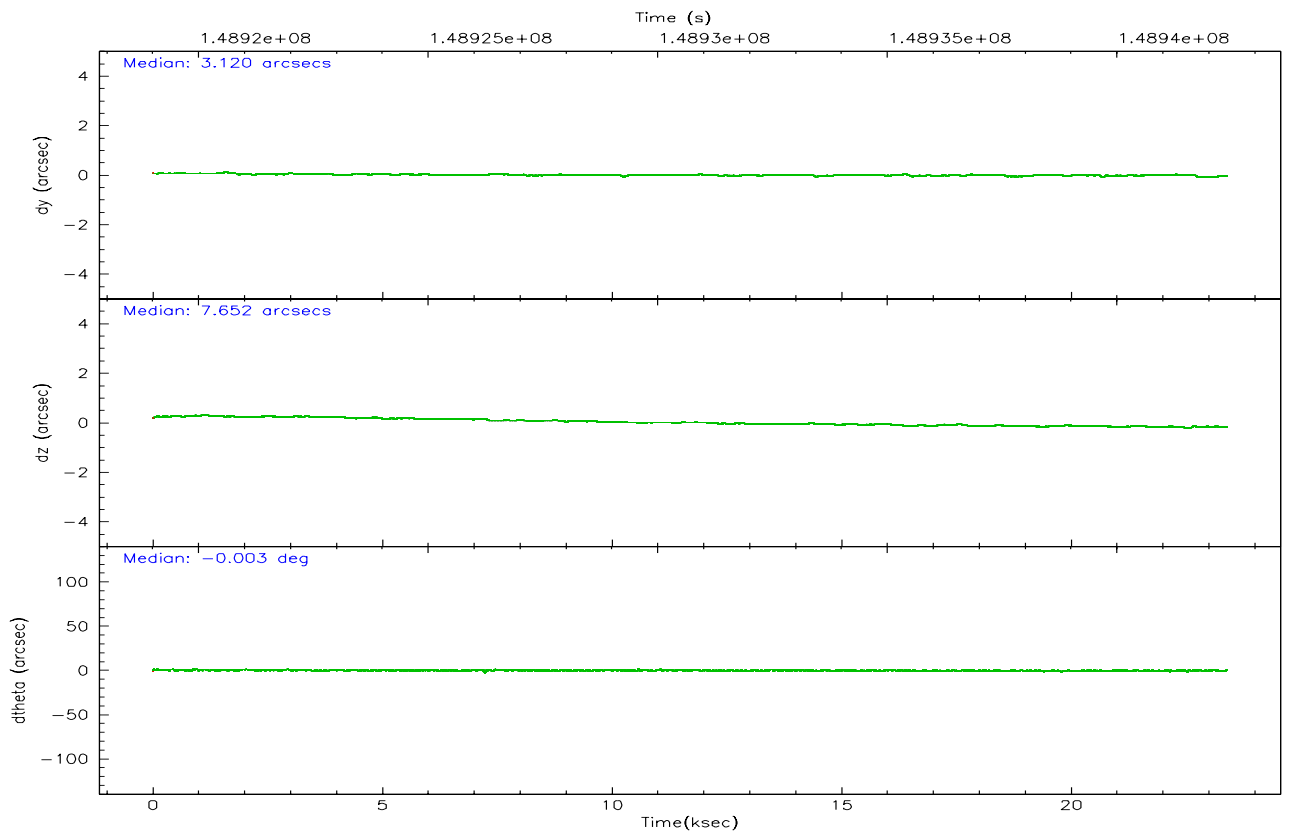
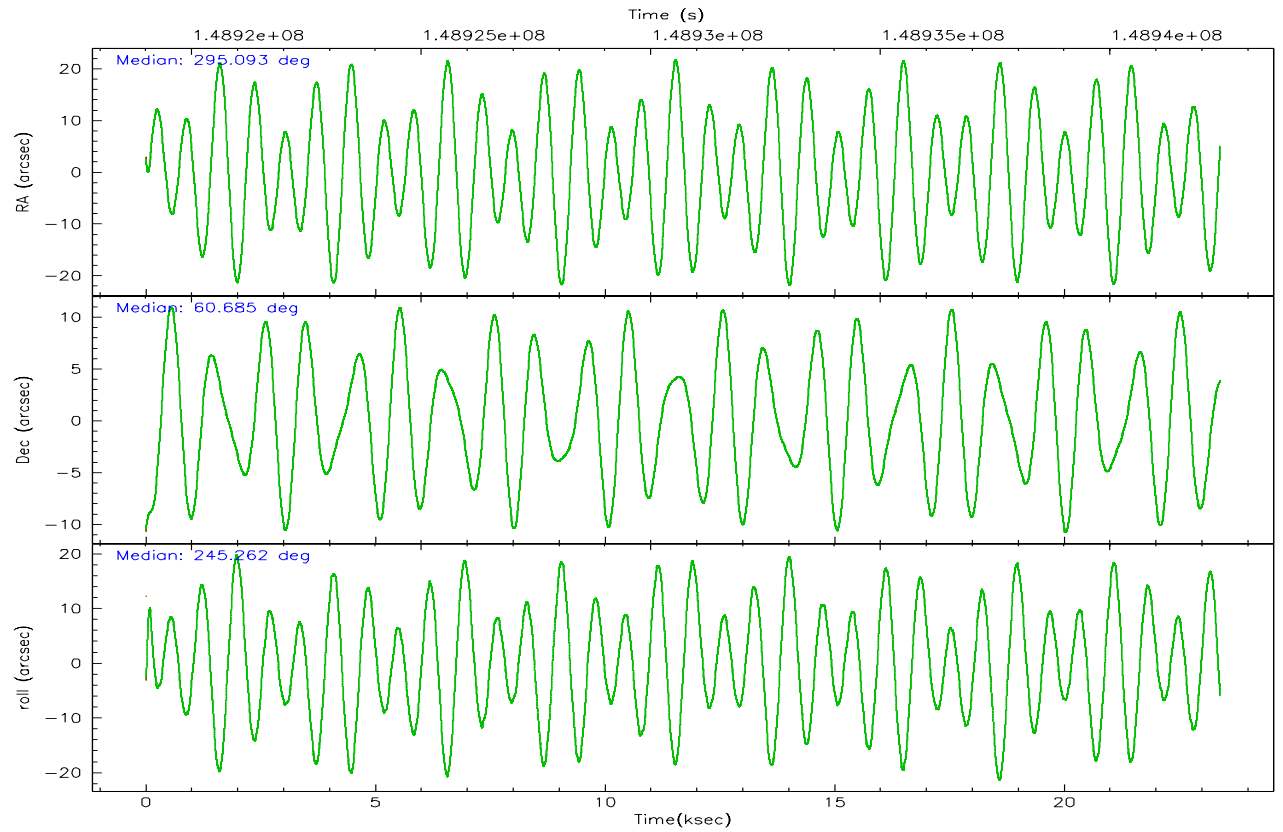
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	7325	7286	11036	7177	6112	11612
	5%	5%	5%	5%	3%	6%
grade 1 events	84	87	386	69	127	121
	0%	0%	0%	0%	0%	0%
grade 2 events	3288	3032	29668	3446	19514	7986
	2%	2%	13%	2%	9%	4%
grade 3 events	1629	1546	2369	1716	4444	3814
	1%	1%	1%	1%	2%	2%
grade 4 events	1540	1580	2245	1607	4230	3569
	1%	1%	1%	1%	2%	2%
grade 5 events	5460	5933	9949	6368	12439	8182
	3%	4%	4%	4%	6%	4%
grade 6 events	2689	2778	53611	3237	45301	9618
	1%	2%	24%	2%	23%	5%
grade 7 events	121602	116272	105620	116008	104134	131637
	84%	83%	49%	83%	53%	74%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-235678	ACIS-235678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
Pointing RA	295.087436	295.093264739542	Subarray requested	NONE	NONE
Pointing Dec	60.712207	60.6850937942787	Alternating exposures requested	N	N
Pointing Roll	245.114952	245.2664926171167	Primary exposure time	0.000000	3.2
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	148919204.184000	148918348.13678			
Observation start date	2002-09-20T14:25:40	2002-09-20T14:12:28			
Observation end time	148942404.184000	148943191.06281			
Observation end date	2002-09-20T20:52:20	2002-09-20T21:06:31			
Read mode	TIMED	TIMED			

## 2.3 Aspect





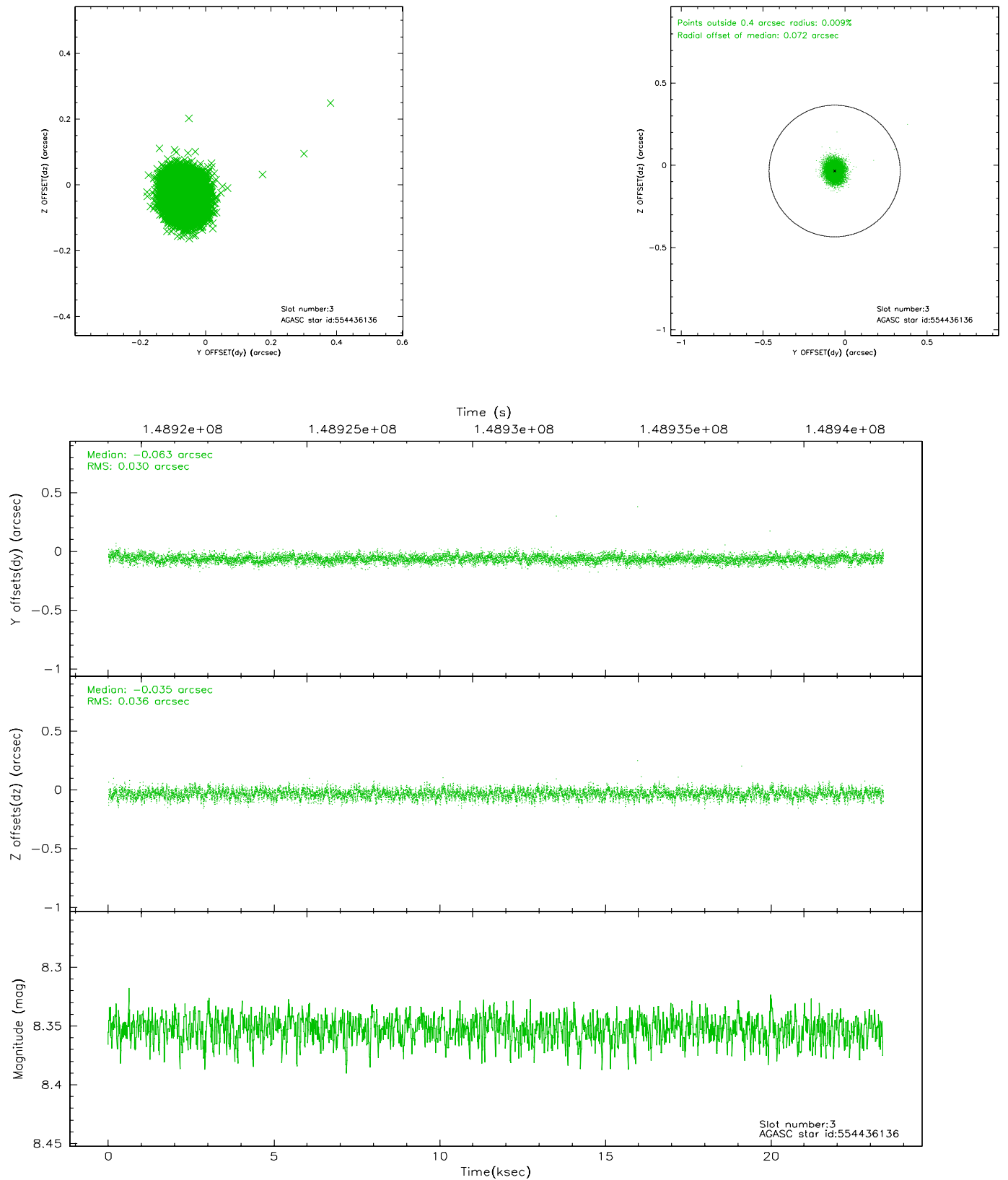
### Slot Statistics

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	5705	0.071	0.017	0.011	0.017	0.000000	0.000000	-755.74	-1728.83
1	FID	ACIS-S-3	7.35	5704	-0.100	-0.043	0.014	0.021	0.000000	0.000000	57.16	-1858.27
2	FID	ACIS-S-4	7.20	5705	0.001	0.030	0.006	0.010	0.000000	0.000000	2157.59	179.44
3	GUIDE	554436136	8.35	11407	-0.063	-0.035	0.049	0.080	295.312888	60.232943	1394.76	1092.12
4	GUIDE	554451632	8.80	11409	-0.035	0.036	0.072	0.112	294.210908	61.288730	-1253.95	-2252.00
5	GUIDE	554448992	8.67	11408	-0.027	0.007	0.061	0.097	295.034810	61.081791	-1168.61	-642.54
6	GUIDE	554446792	8.82	11406	0.032	-0.030	0.078	0.124	295.560016	60.563175	131.92	983.66
7	GUIDE	554448584	9.49	11380	0.095	0.025	0.094	0.151	293.991372	60.316559	2099.60	-1179.01

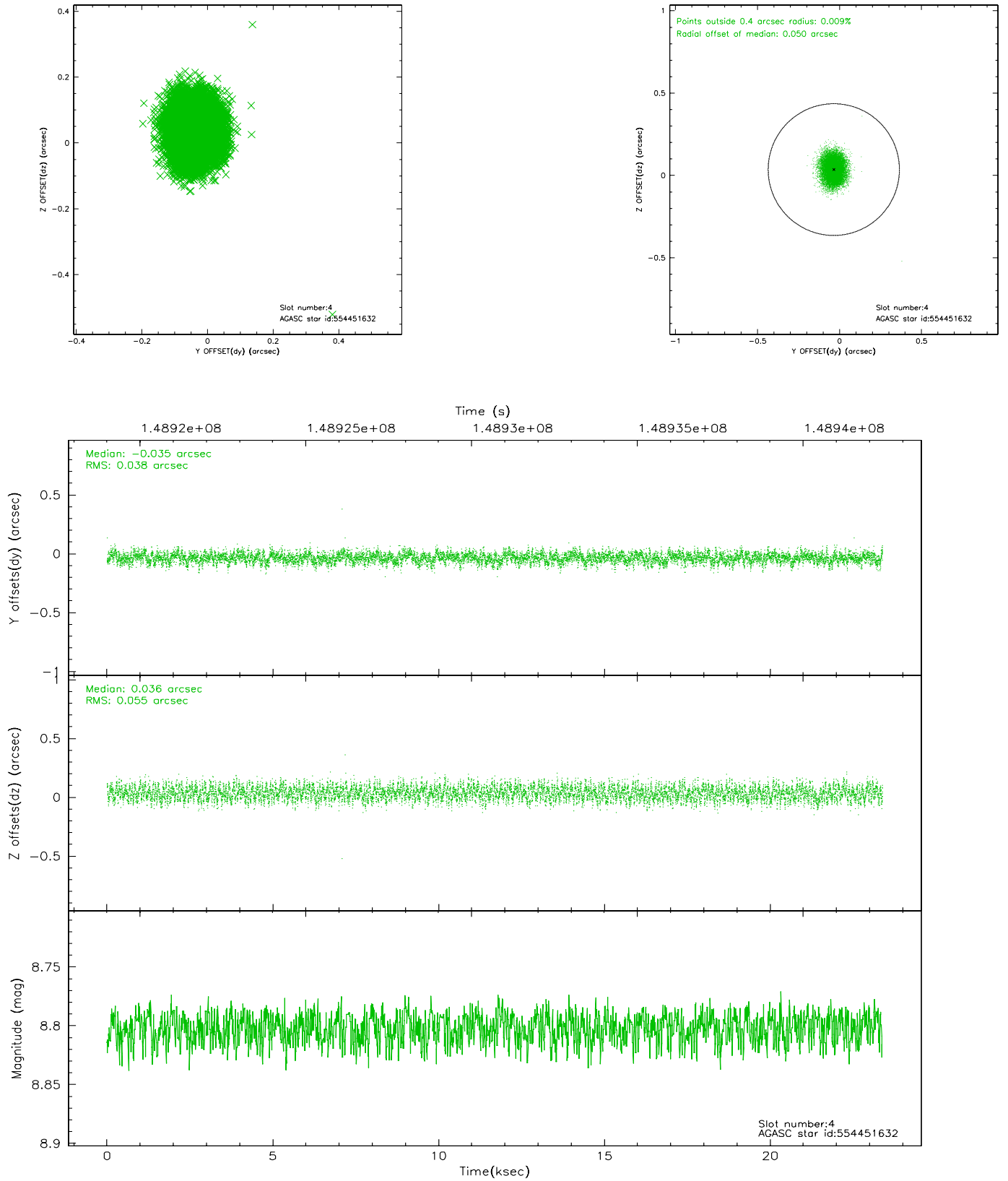


## 2.4 Star Slots

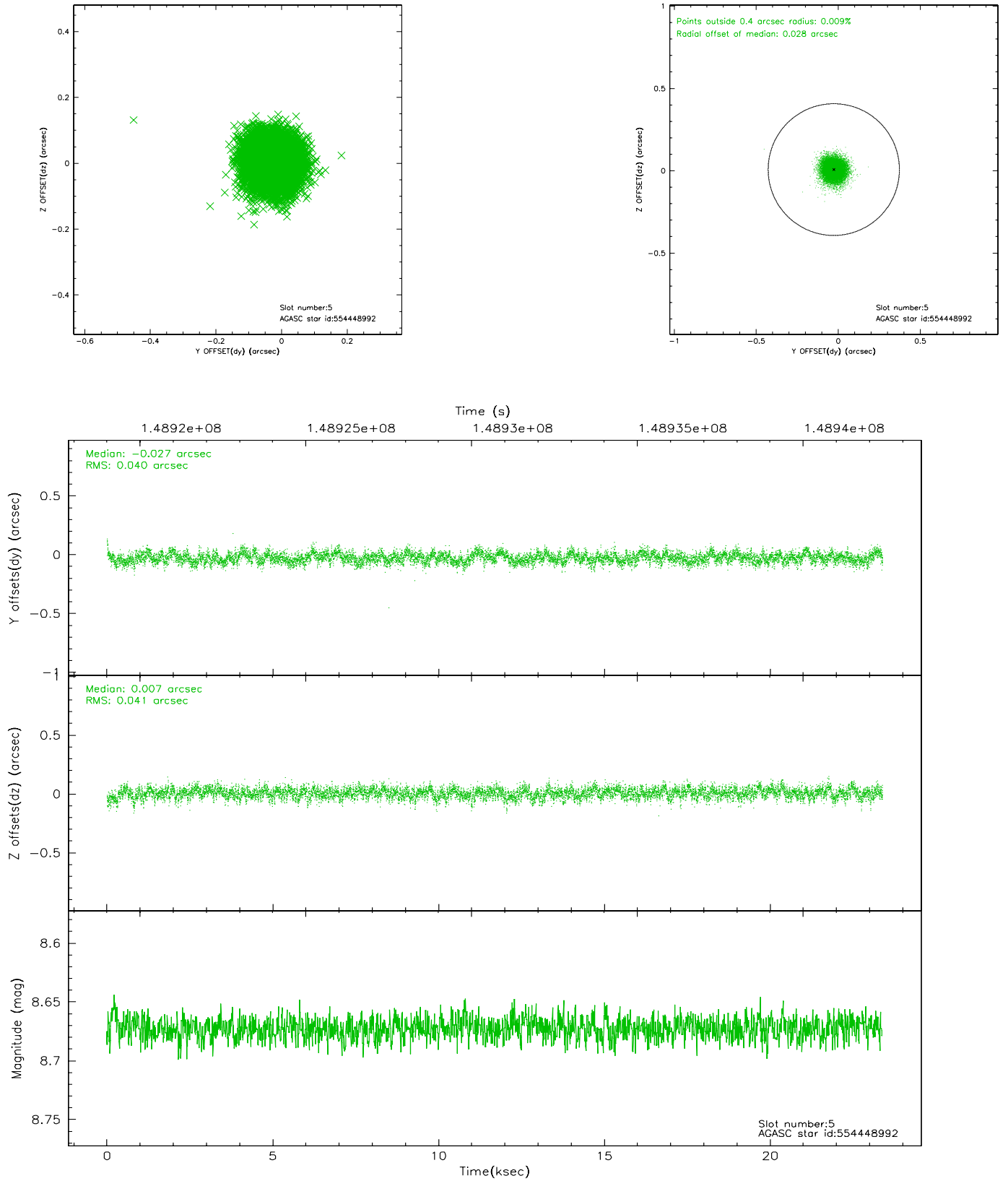
### 2.4.1 Slot 3



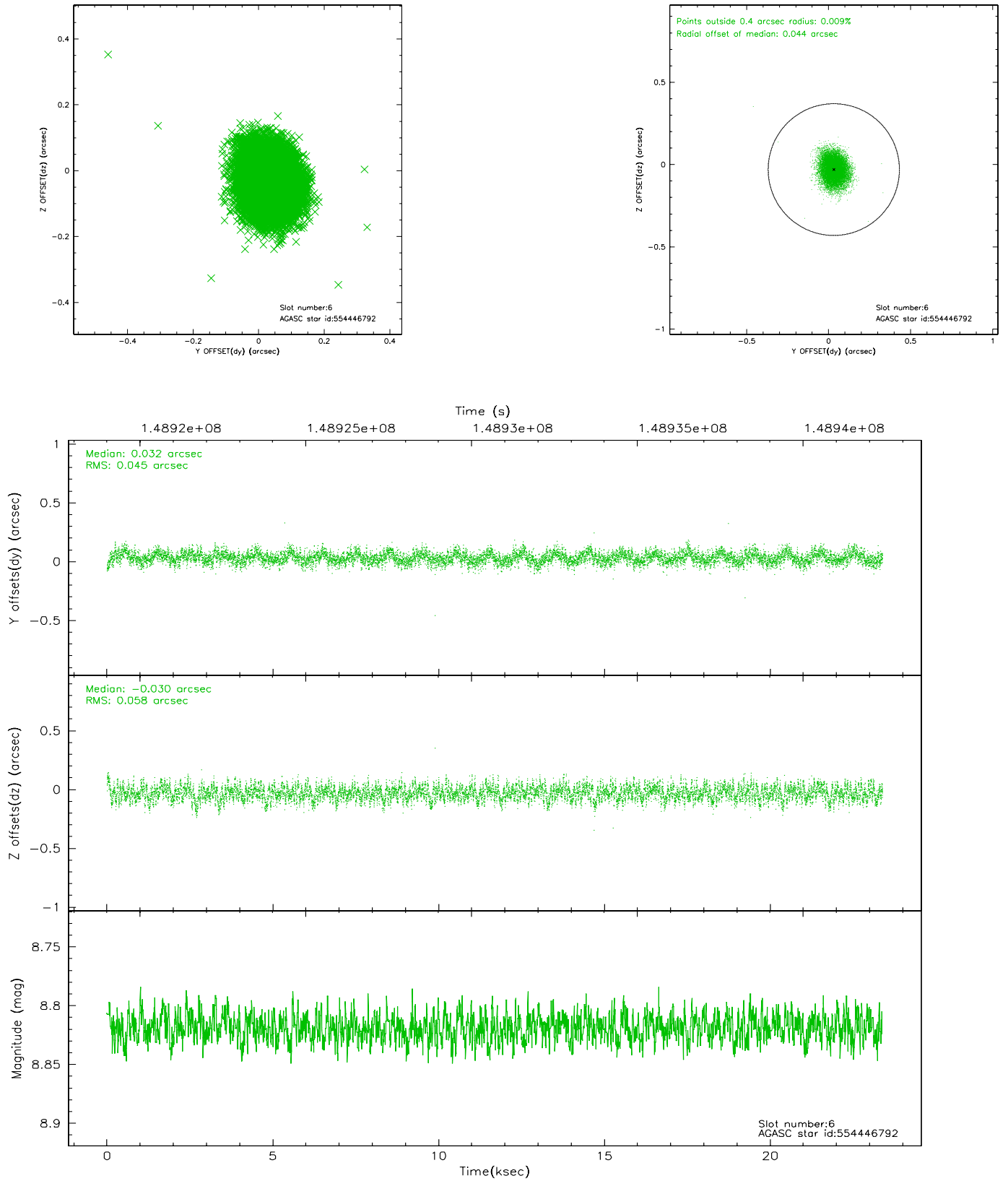
## 2.4.2 Slot 4



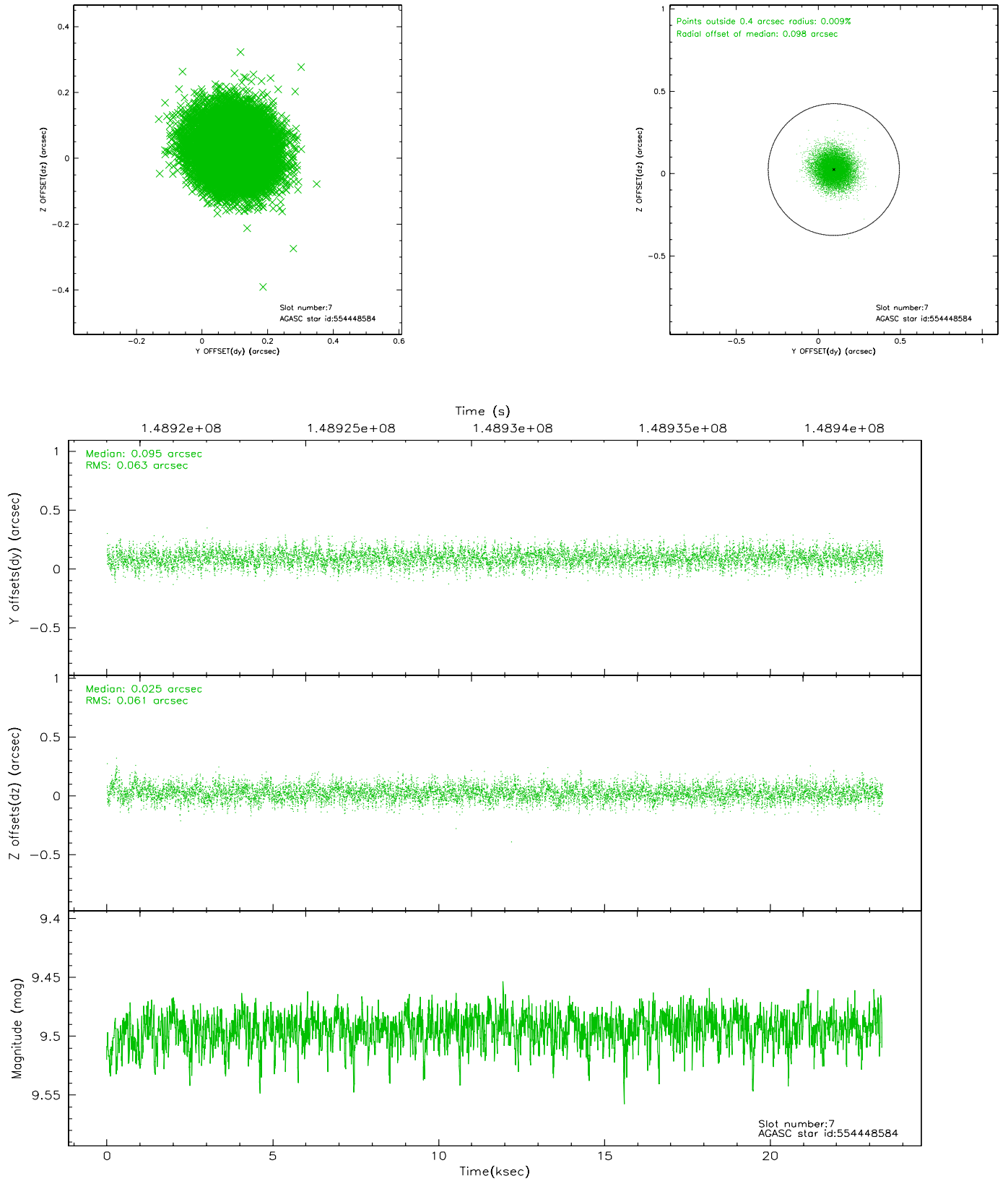
### 2.4.3 Slot 5



## 2.4.4 Slot 6

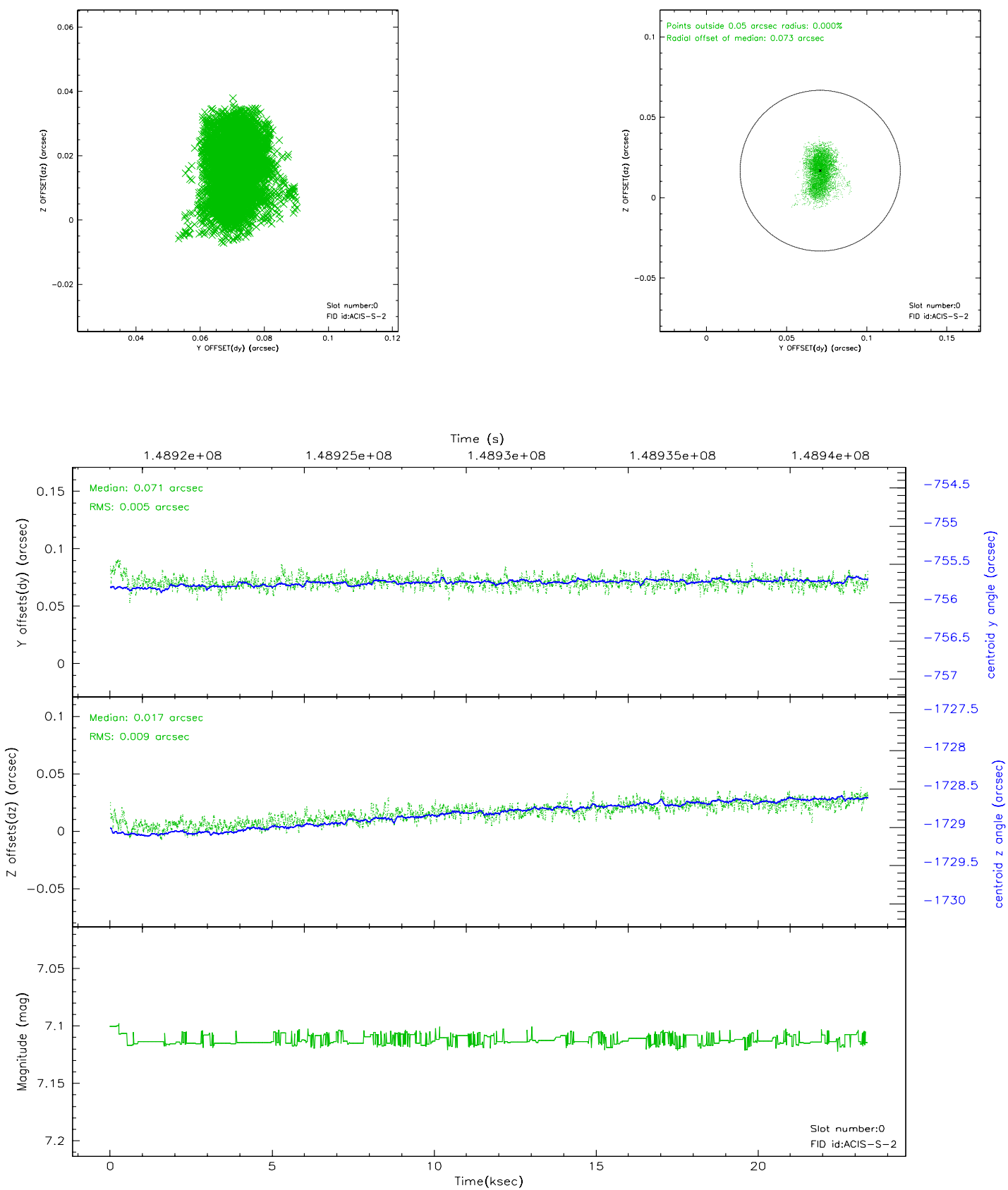


## 2.4.5 Slot 7

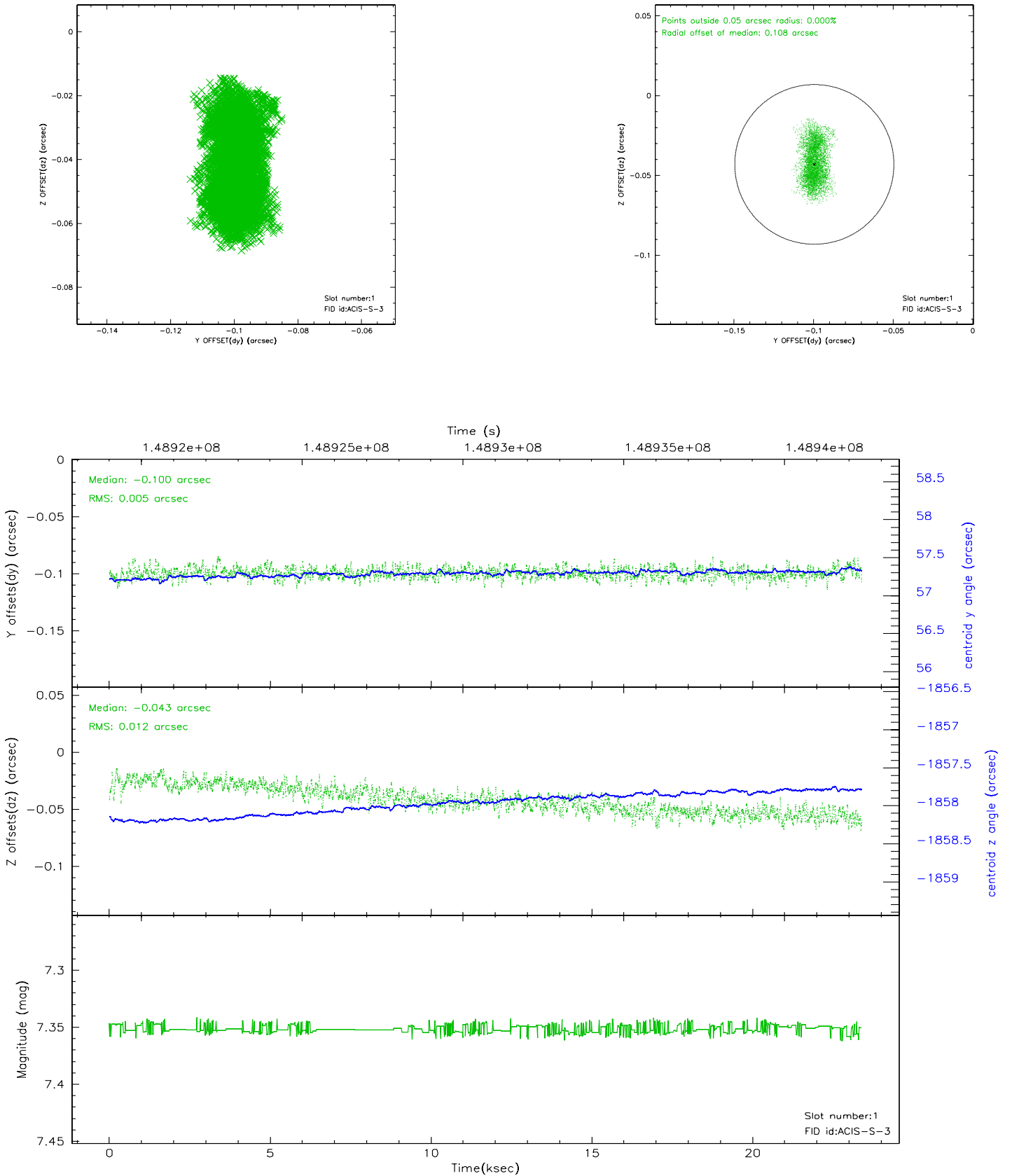


## 2.5 FID Slots

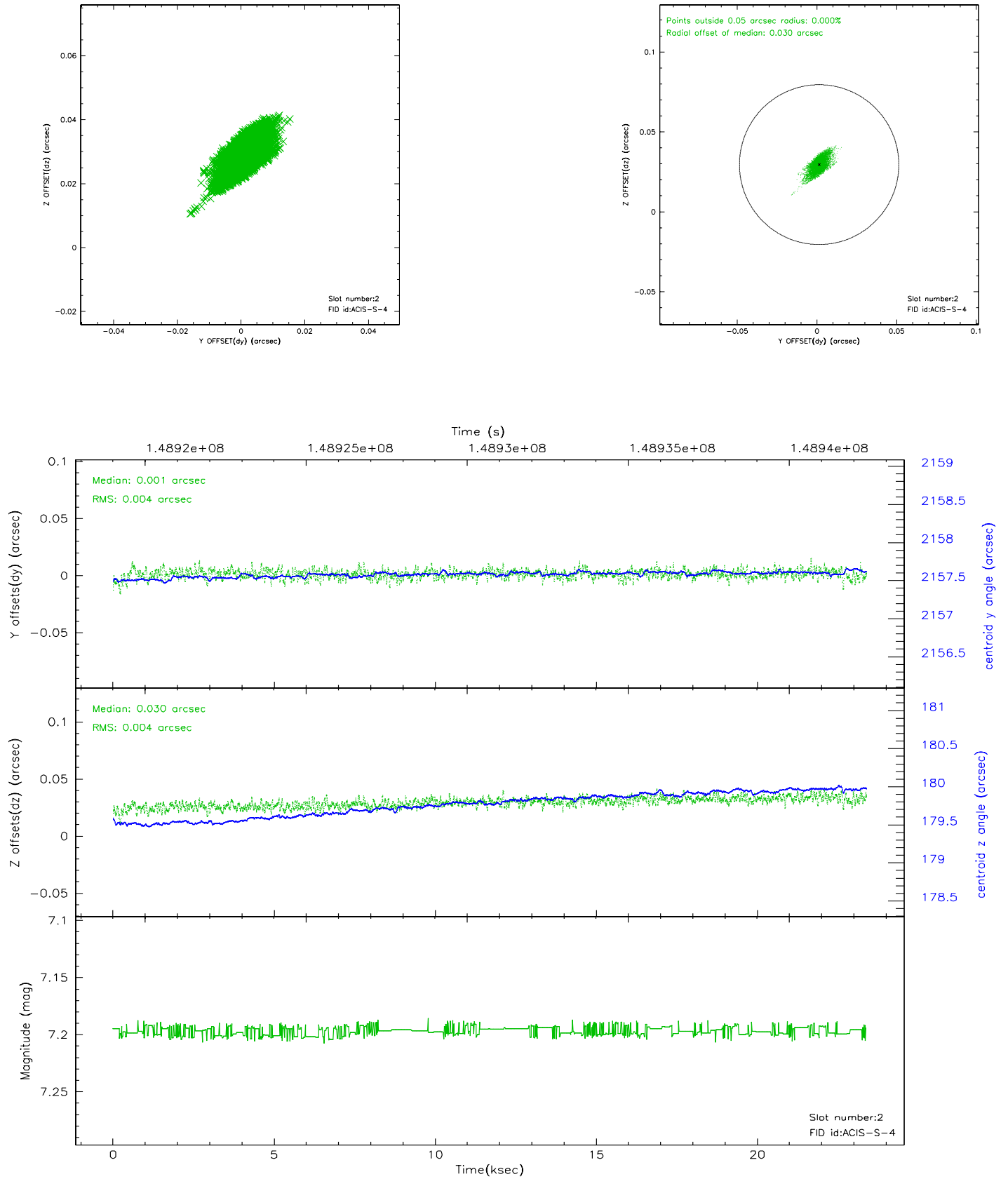
### 2.5.1 Slot 0



## 2.5.2 Slot 1

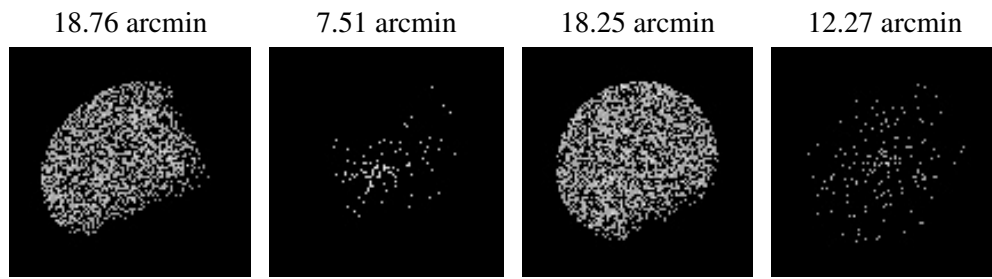


### 2.5.3 Slot 2





### 3 Point Sources



## A Summary

### A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2006.10.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	22.956

### A.2 Comments