

# V&V Reference Report

## L2 ASCDS Version : 7.6.9

Observation 1983 - L2 Version 001  
Chandra X-Ray Center

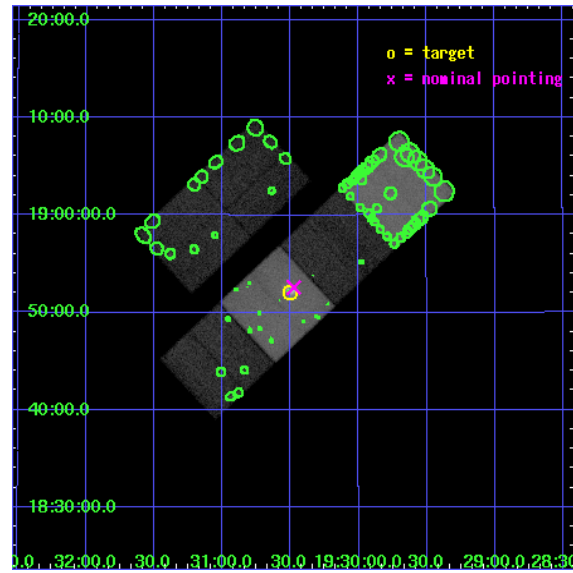
L2 Processing Date : Nov 28 2006

## 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

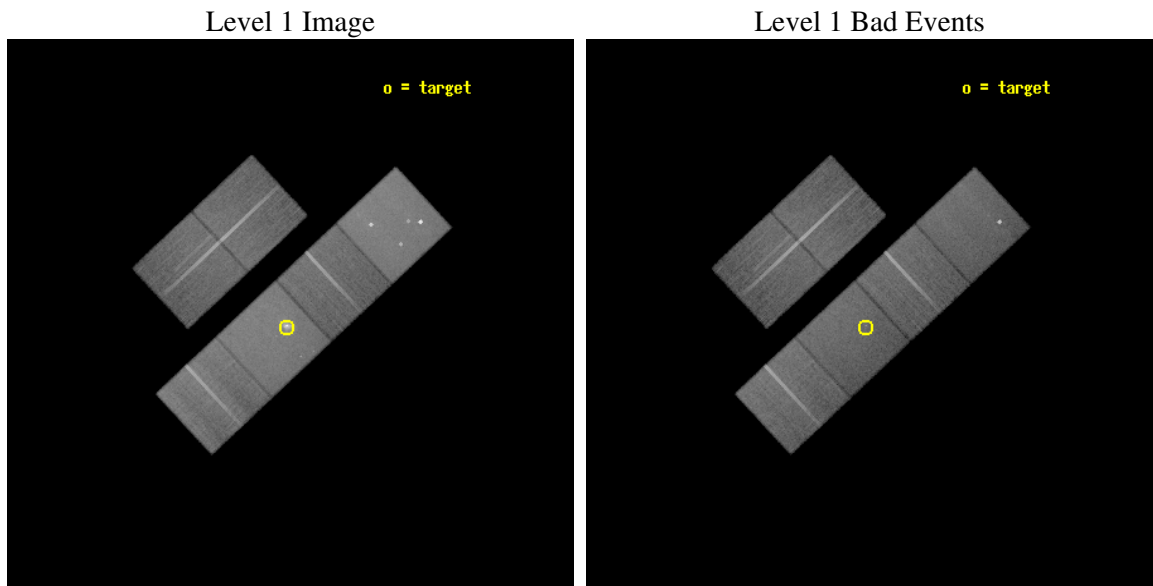
seq_num	500160
obs_id	1983
title	SNR G54.1+0.3: A SNR WITH AN X-RAY JET
observer	Dr. Fangjun Lu
object	SNR G54.1+0.3
dtcycle	0
cycle	P
ra_targ	292.625
dec_targ	18.868611
ra_nom	292.61883685348
dec_nom	18.876448410791
roll_nom	136.9305826975
revision	2
ontime	38956.759076029
livetime	38463.465135664
ontime2	38956.759076029
ontime3	38956.759046108
ontime5	38956.759076029
ontime6	38956.75906603
ontime7	38956.759076029
ontime8	38960.000036284
l2events	461334



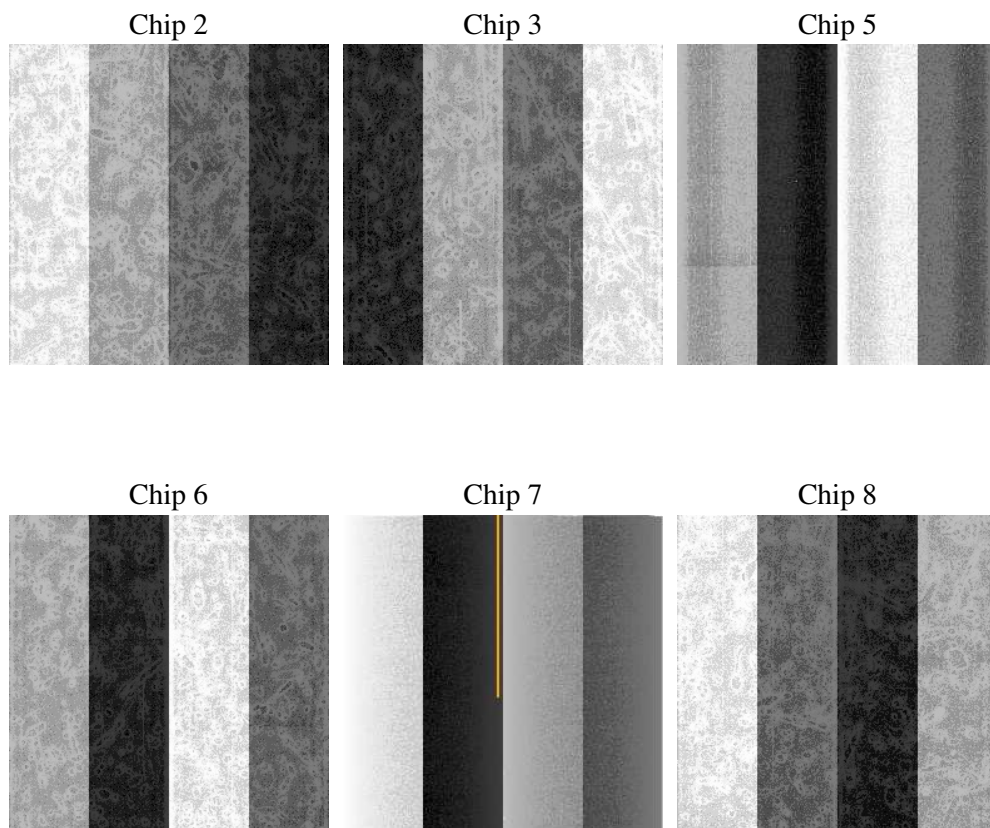
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0
ascdsver	7.6.9
caldsver	3.2.4
date	2006-11-28T04:03:42
revision	2

sched_exp_time	38822.213000
ontime	39630.950683653
ontime2	39630.950683653
ontime3	39634.191663817
ontime5	39630.950683653
ontime6	39630.950643748
ontime7	39630.950683653
ontime8	39637.432653993
l1events	1906758

### 2.1.4 Events

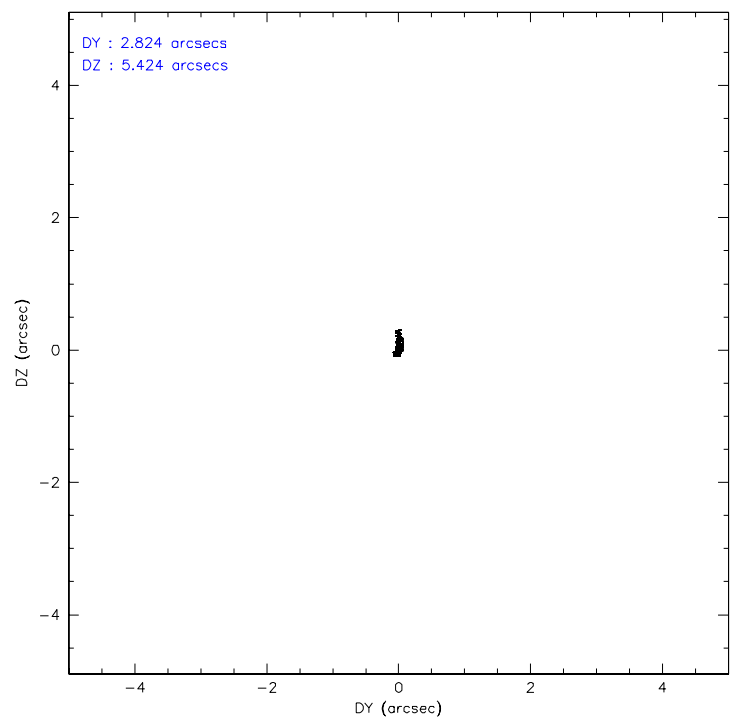
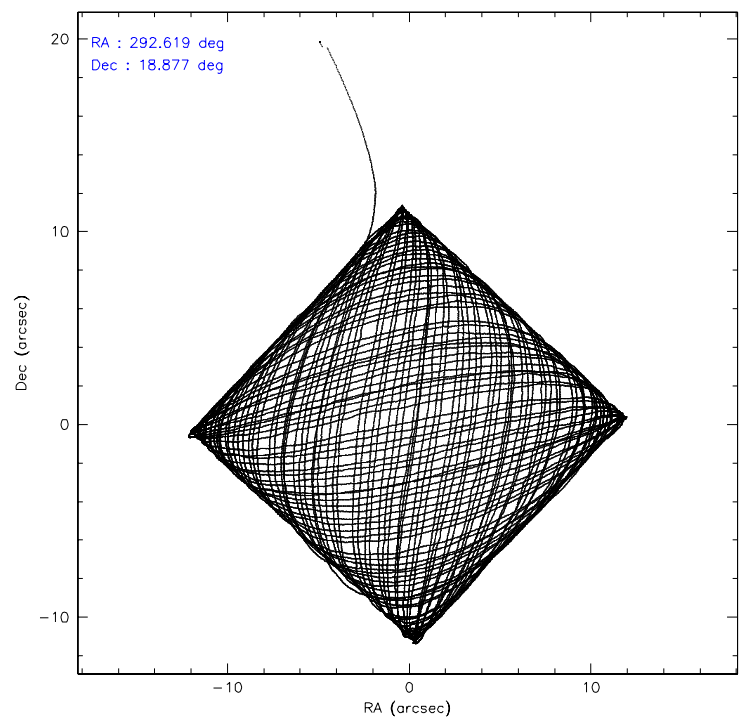
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	267635	250913	410365	265382	383083	329380
rejected events	236975	220583	213804	232700	207746	260587
rejected %	88%	87%	52%	87%	54%	79%

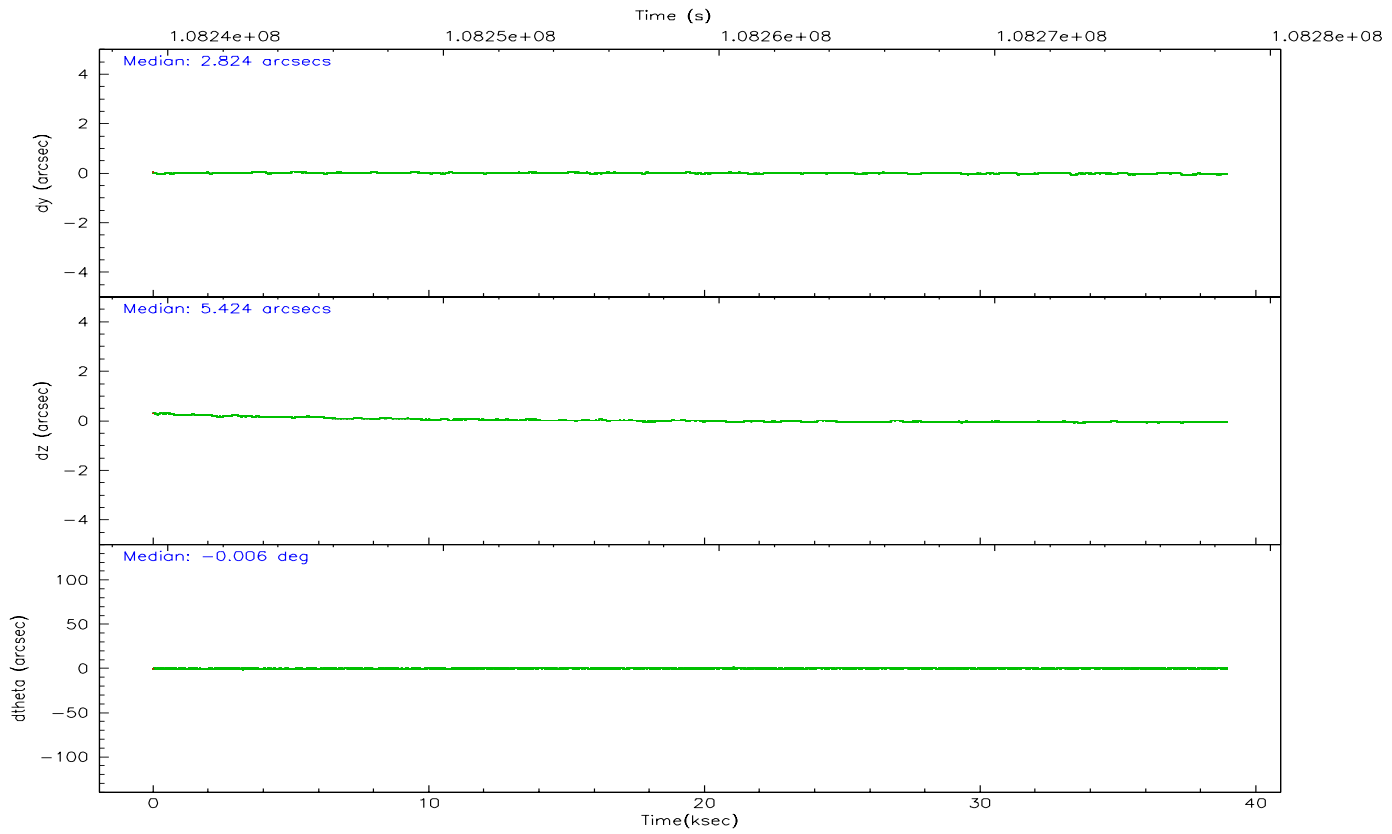
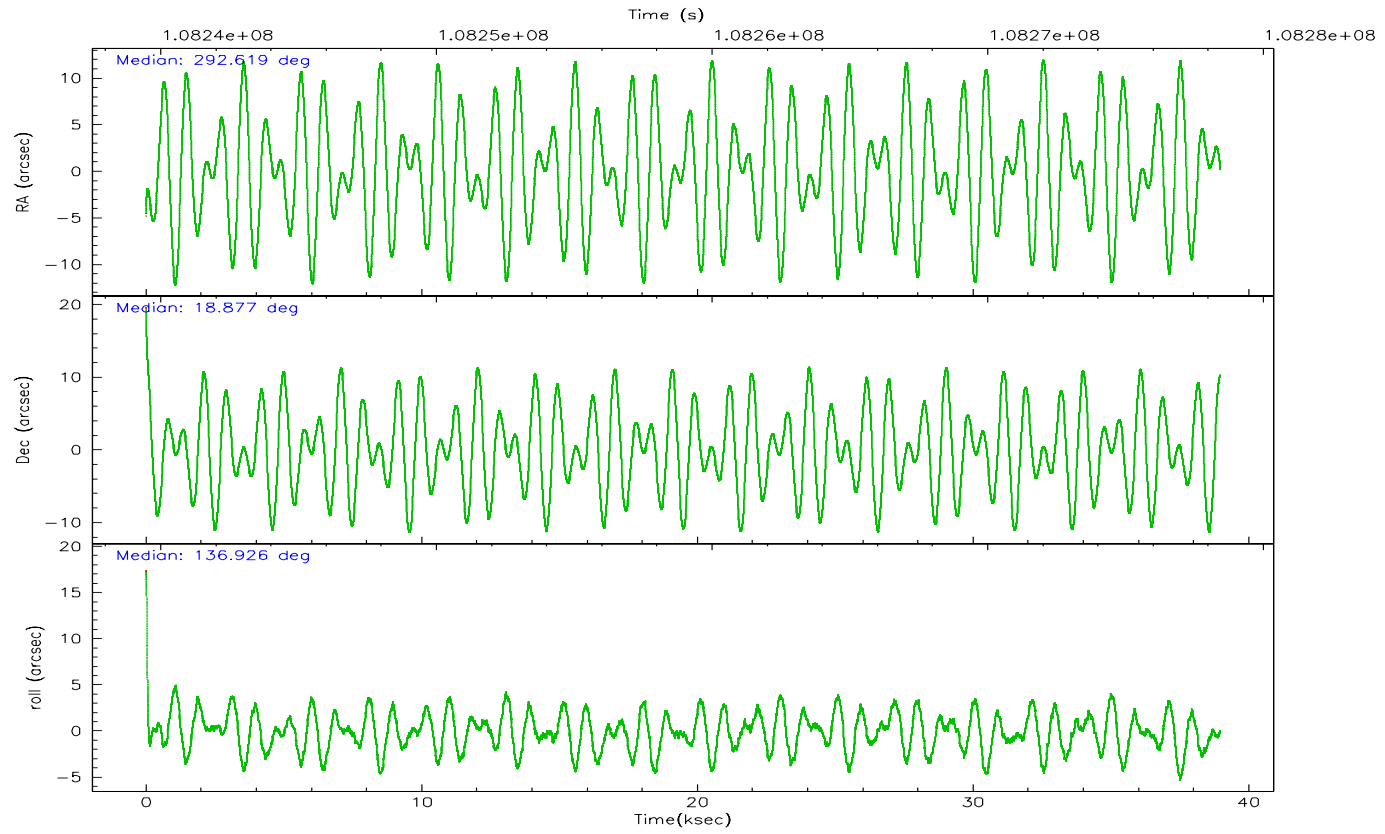
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	13669	13987	22626	14874	16012	23752
	5%	5%	5%	5%	4%	7%
grade 1 events	130	122	4914	120	218	196
	0%	0%	1%	0%	0%	0%
grade 2 events	6702	5861	64382	6424	43009	14614
	2%	2%	15%	2%	11%	4%
grade 3 events	2796	2876	5221	3055	11229	7587
	1%	1%	1%	1%	2%	2%
grade 4 events	2872	2957	5179	2962	10815	7052
	1%	1%	1%	1%	2%	2%
grade 5 events	8918	9695	17861	10847	22540	13670
	3%	3%	4%	4%	5%	4%
grade 6 events	5084	5129	102126	5910	96569	16958
	1%	2%	24%	2%	25%	5%
grade 7 events	227464	210286	188056	221190	182691	245551
	84%	83%	45%	83%	47%	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	292.646991	292.6188368534785	Subarray requested	NONE	NONE
Pointing Dec	18.870553	18.87644841079092	Alternating exposures requested	N	N
Pointing Roll	136.764838	136.9305826975019	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	-190.1425803651734			
SIM translation stage offset (mm)	0	0.01005778216563158			
Observation start time	108239608.184000	108238218.24999			
Observation start date	2001-06-06T18:32:24	2001-06-06T18:10:18			
Observation end time	108278430.184000	108278744.70156			
Observation end date	2001-06-07T05:19:26	2001-06-07T05:25:44			
Read mode	TIMED	TIMED			

## 2.3 Aspect





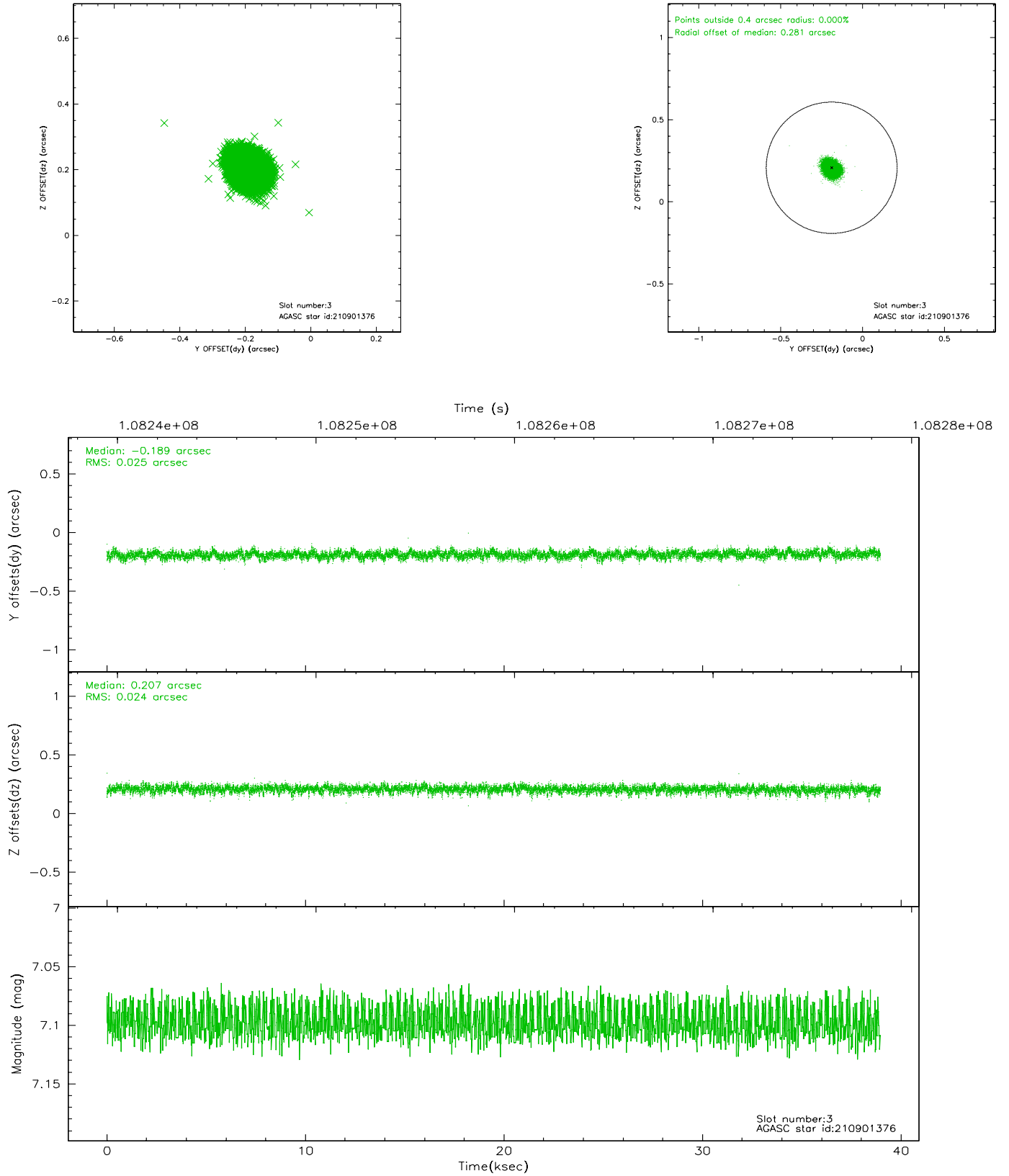
### Slot Statistics

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	9504	-0.014	0.031	0.008	0.012	0.000000	0.000000	-755.43	-1726.51
1	FID	ACIS-S-4	7.20	9503	-0.086	-0.002	0.005	0.010	0.000000	0.000000	2157.72	181.99
2	FID	ACIS-S-5	7.24	9505	0.069	-0.021	0.006	0.011	0.000000	0.000000	-1808.21	175.56
3	GUIDE	210901376	7.10	19005	-0.189	0.207	0.036	0.061	292.749631	19.434076	1135.34	-1716.35
4	GUIDE	210375784	7.14	19006	0.125	-0.136	0.034	0.058	292.707024	18.250669	-1678.59	1484.97
5	GUIDE	210370904	7.80	19000	-0.003	-0.096	0.044	0.070	292.563039	18.704932	-200.44	630.56
6	GUIDE	210900512	7.80	19005	-0.113	-0.076	0.044	0.072	292.050352	18.917419	1597.53	1266.69
7	GUIDE	210376496	8.66	18998	0.181	0.103	0.053	0.087	293.385337	18.705566	-2237.64	-1295.63

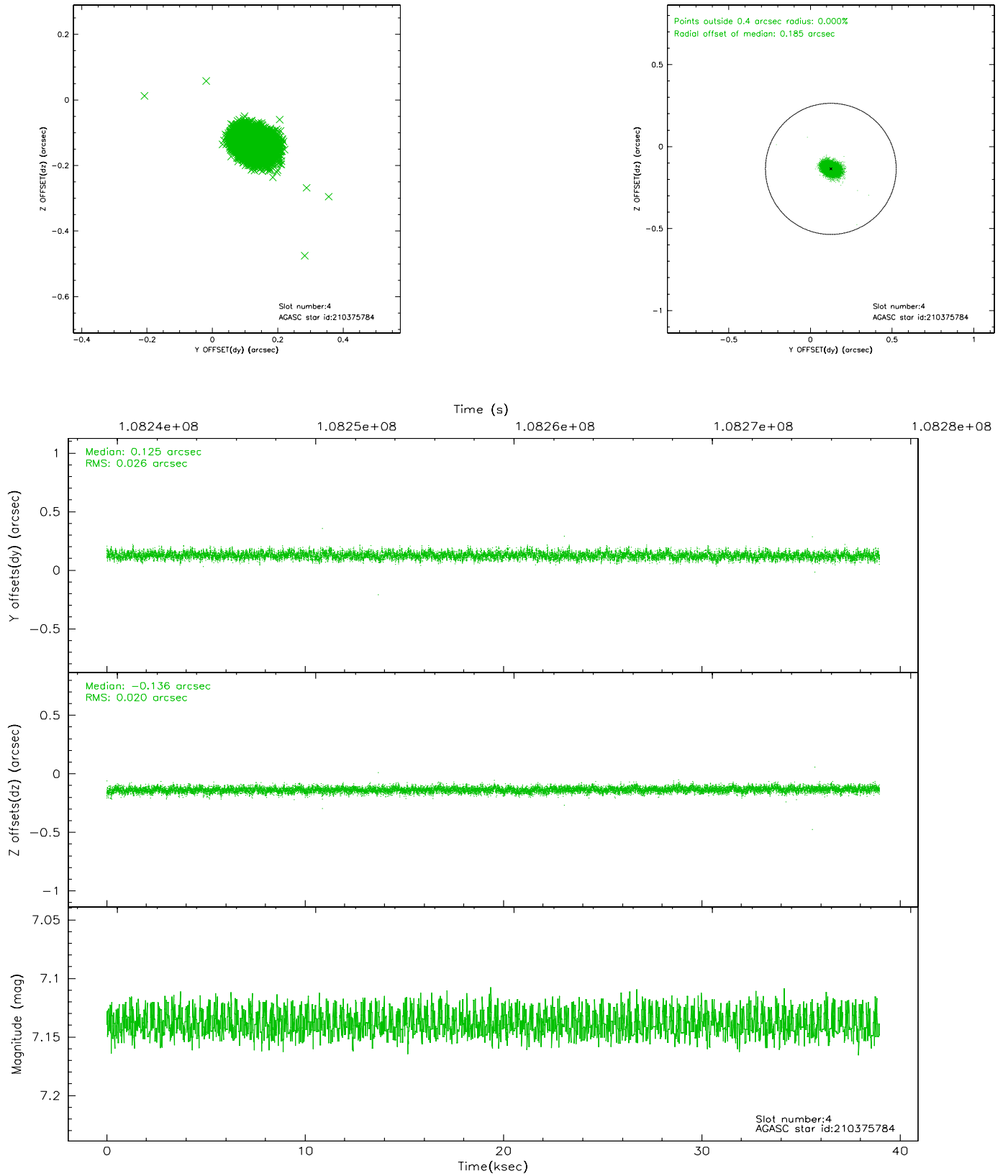


## 2.4 Star Slots

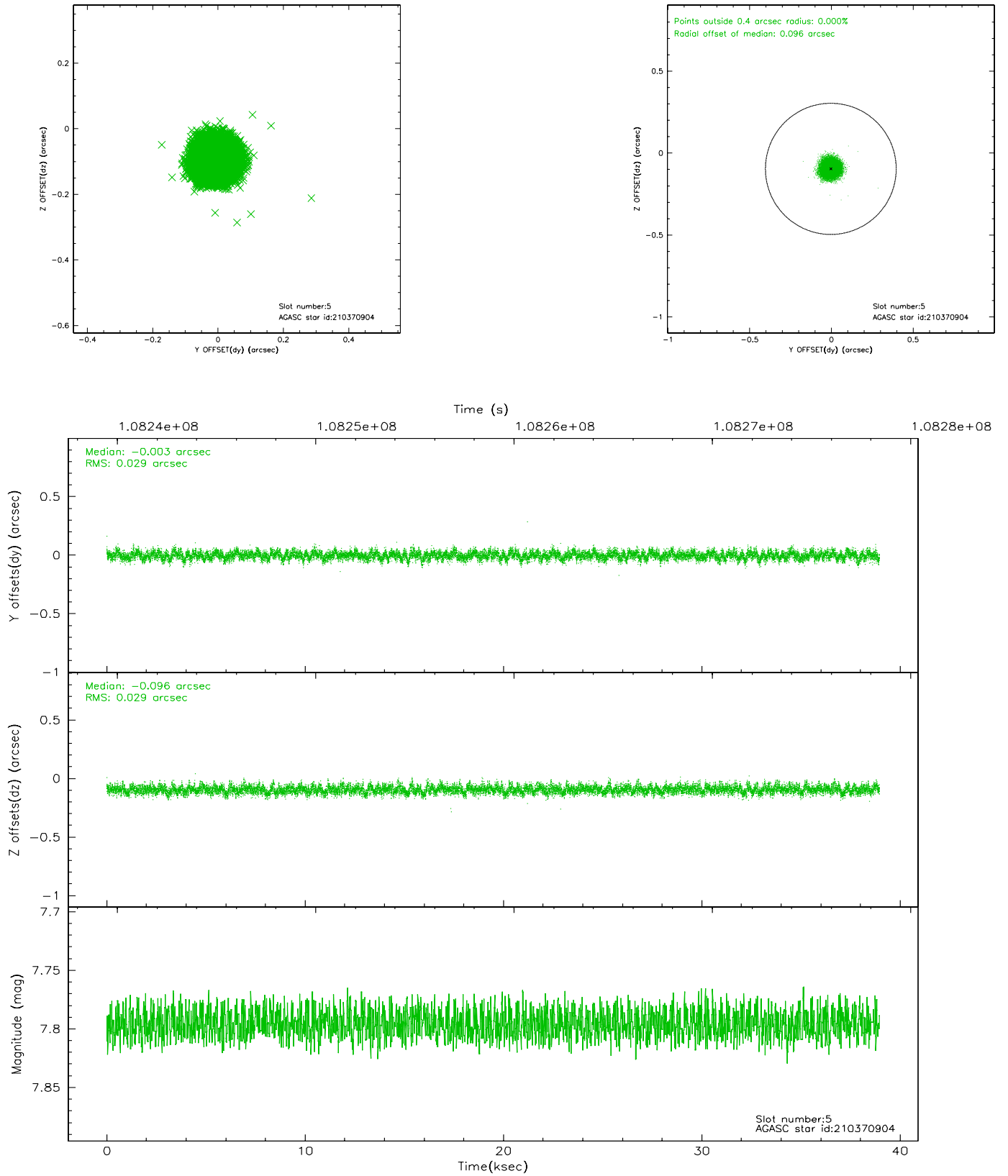
### 2.4.1 Slot 3



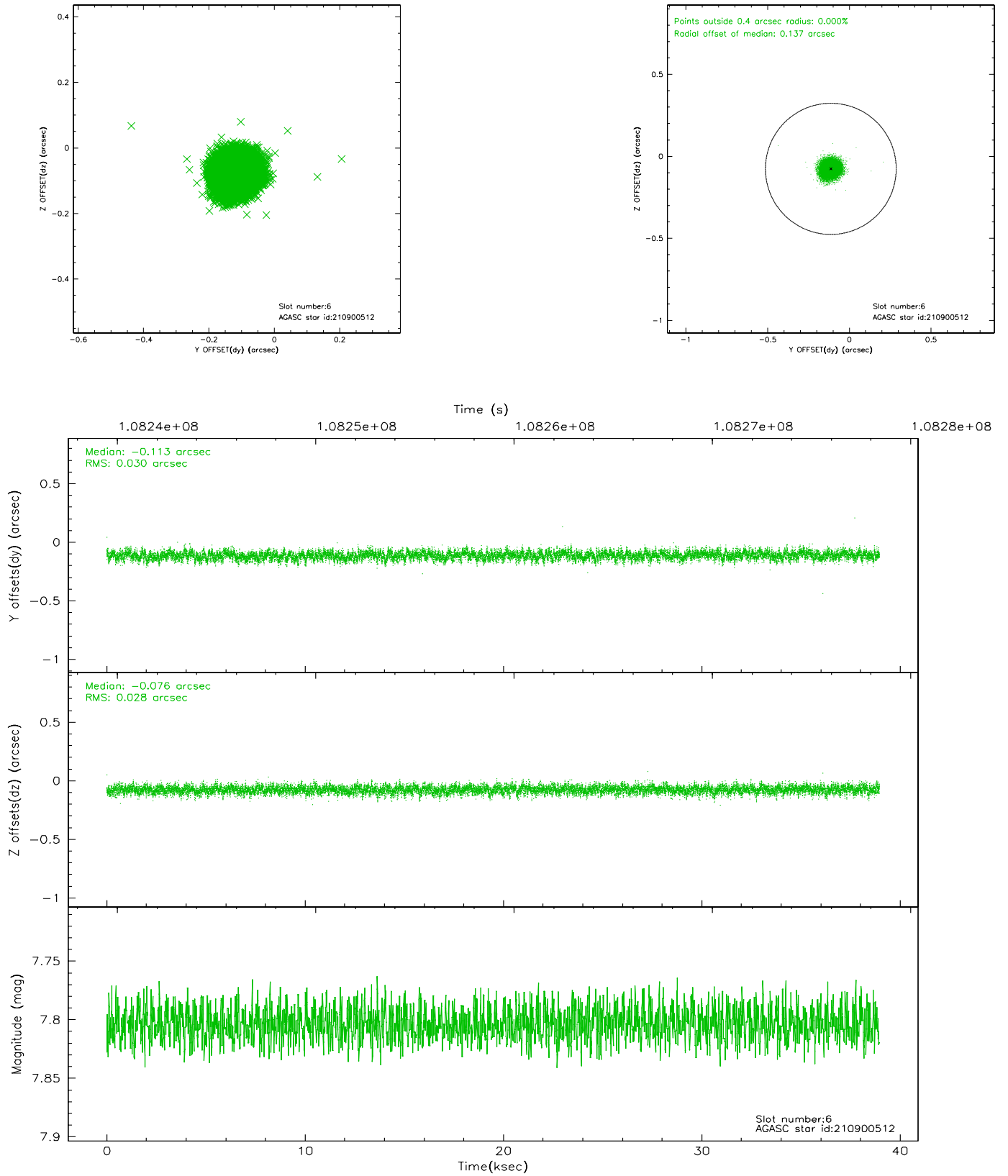
## 2.4.2 Slot 4



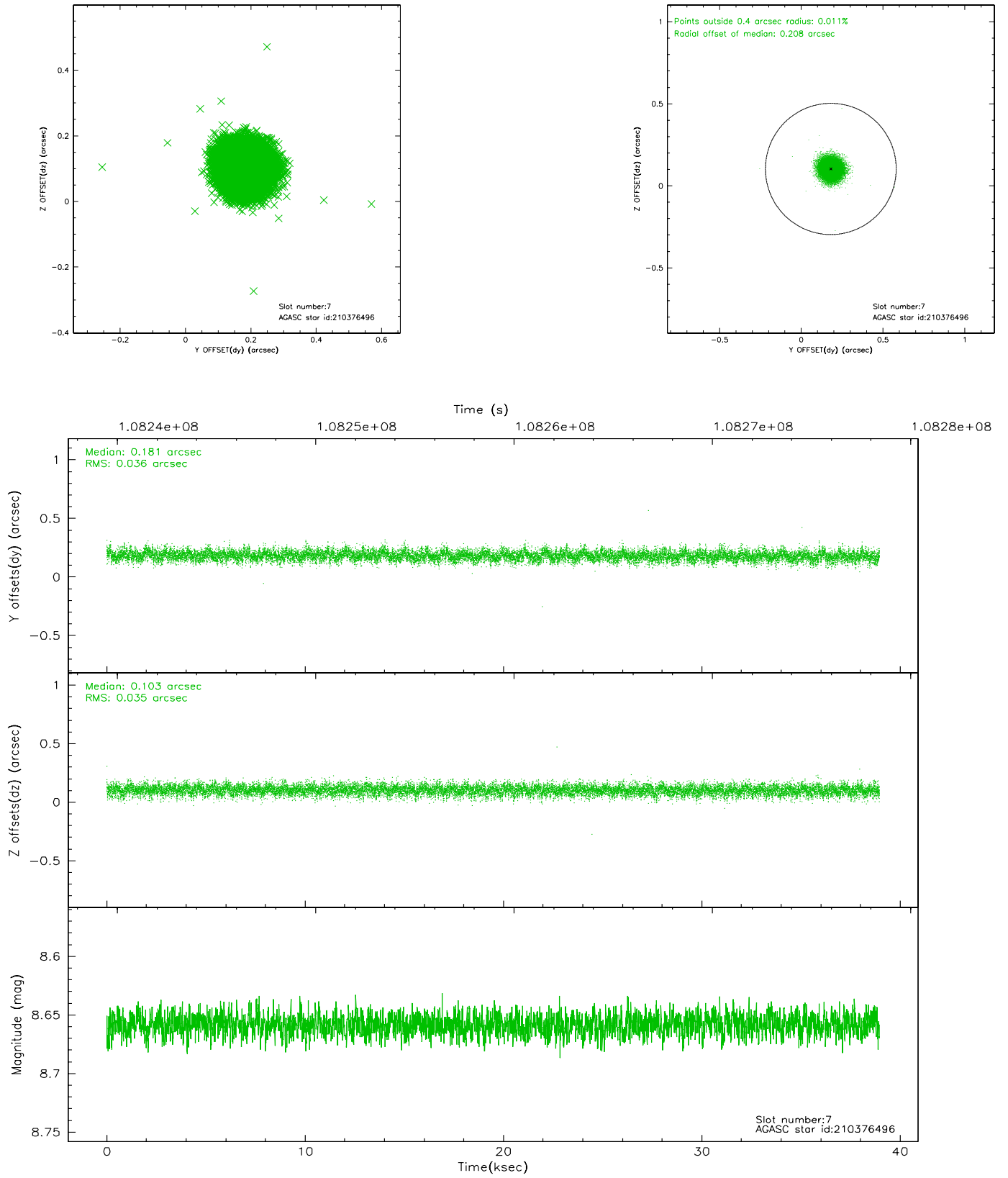
### 2.4.3 Slot 5



## 2.4.4 Slot 6

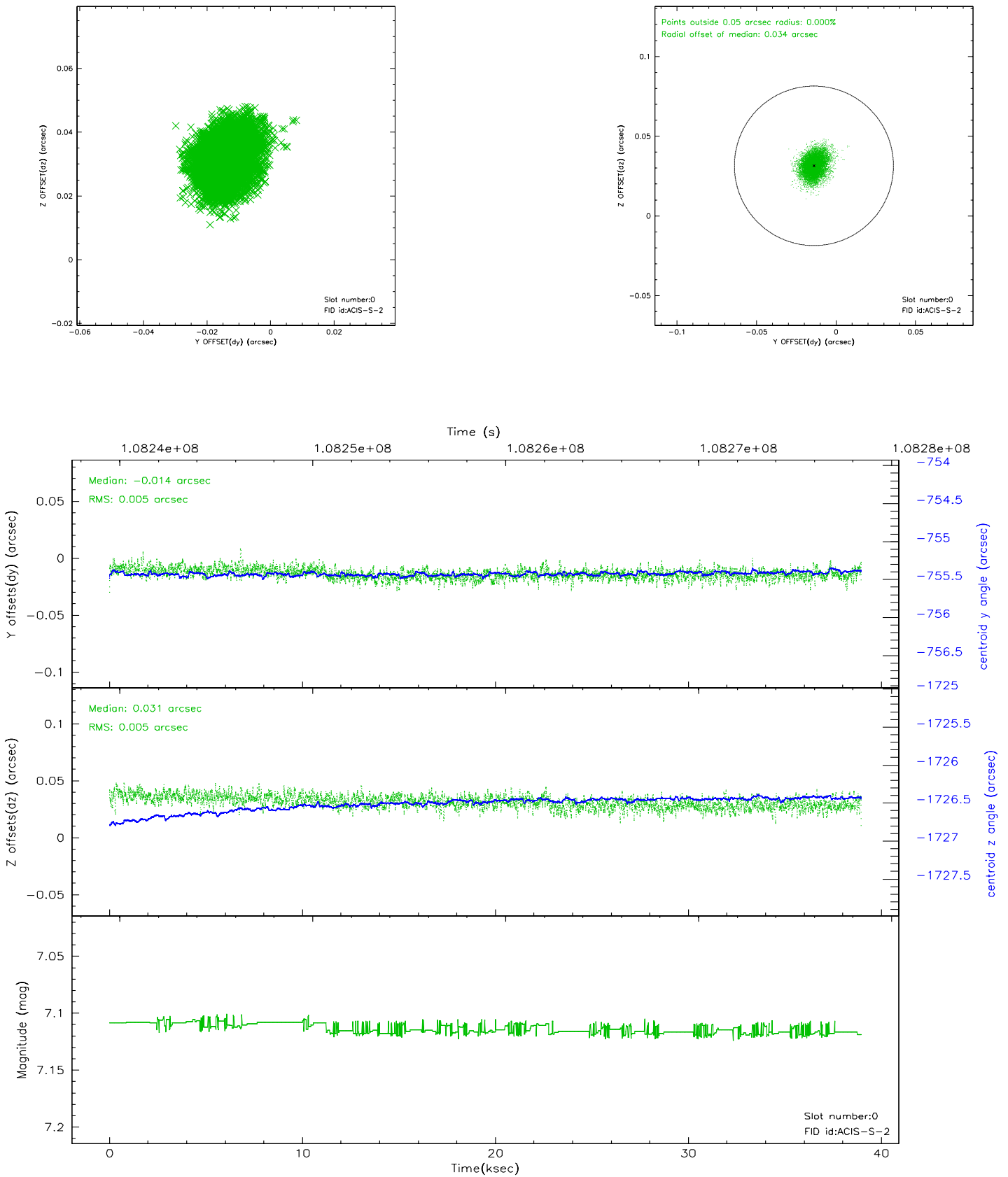


## 2.4.5 Slot 7

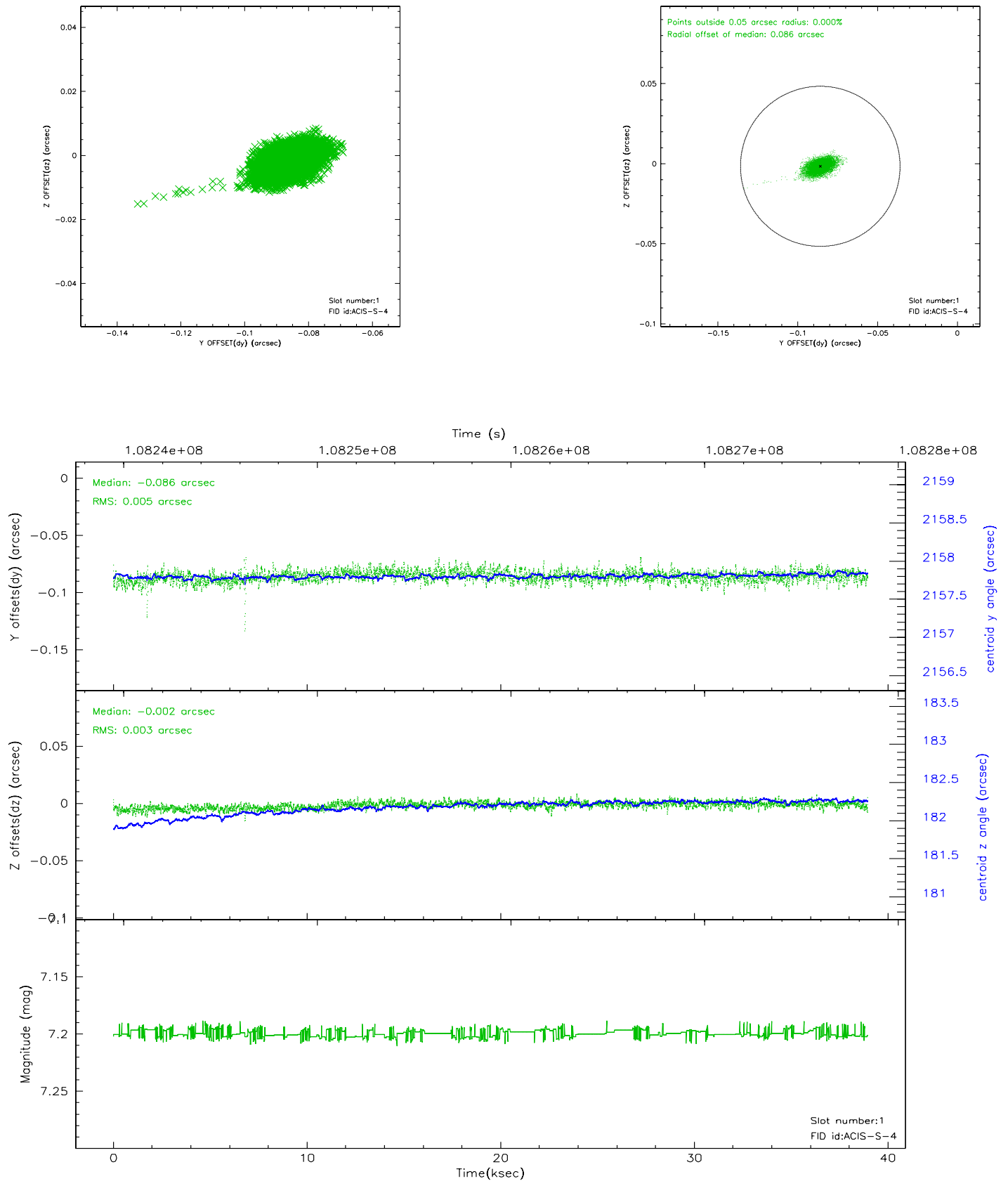


## 2.5 FID Slots

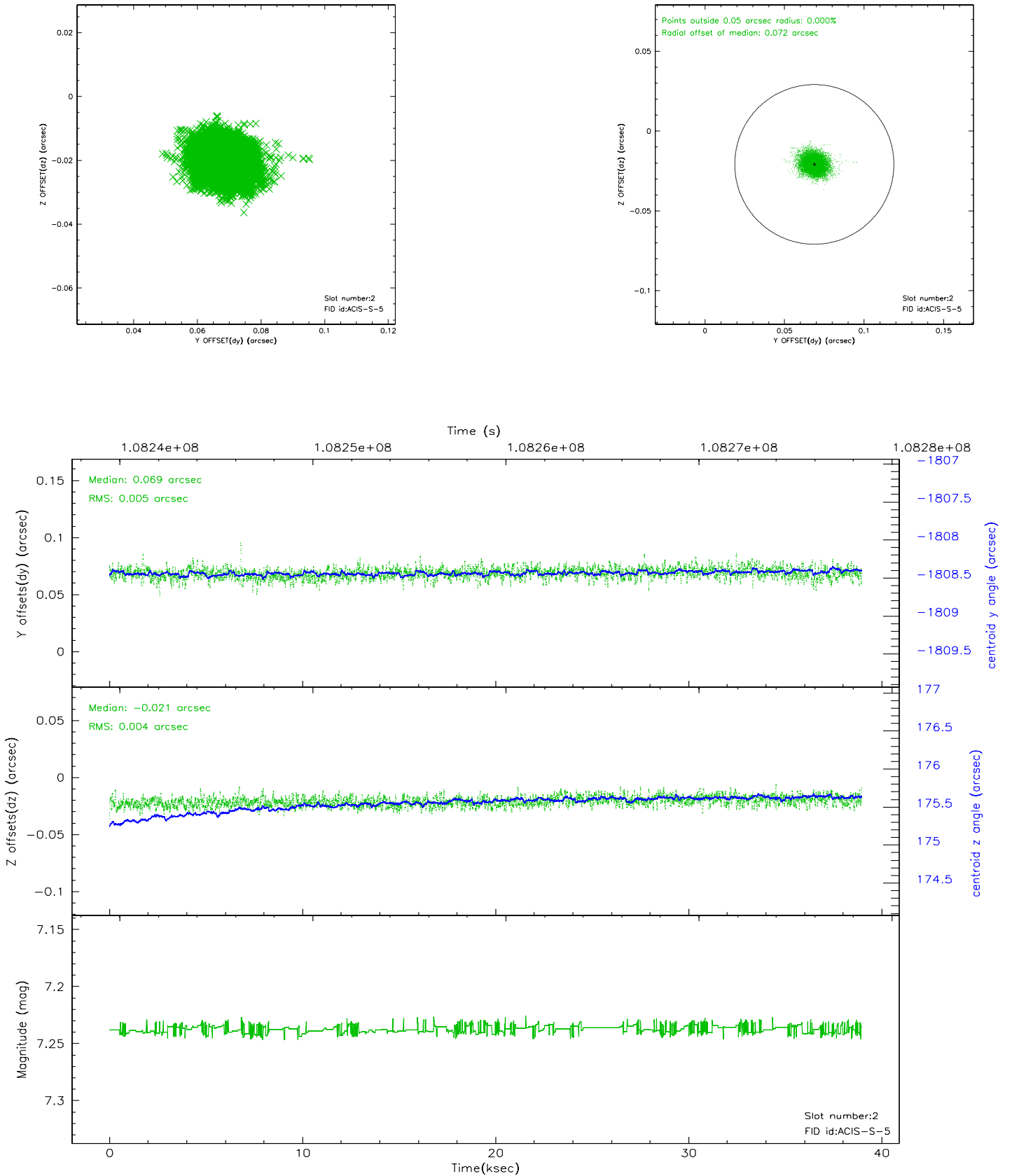
### 2.5.1 Slot 0



## 2.5.2 Slot 1

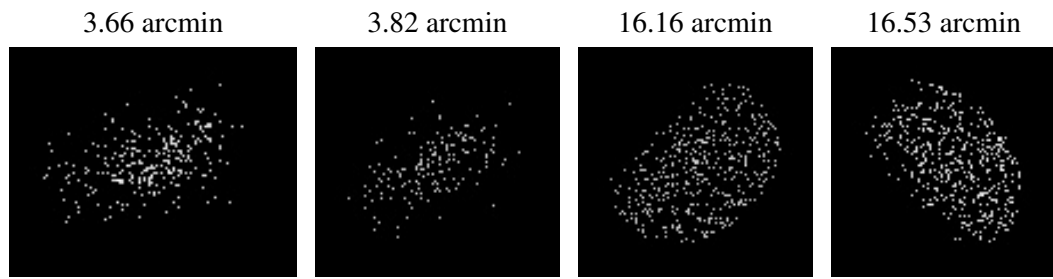


### 2.5.3 Slot 2





### 3 Point Sources



## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2006.11.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	38.9

### A.2 Comments