

# V&V Reference Report

## L2 ASCDS Version : 7.6.10

Observation 593 - L2 Version 001  
Chandra X-Ray Center

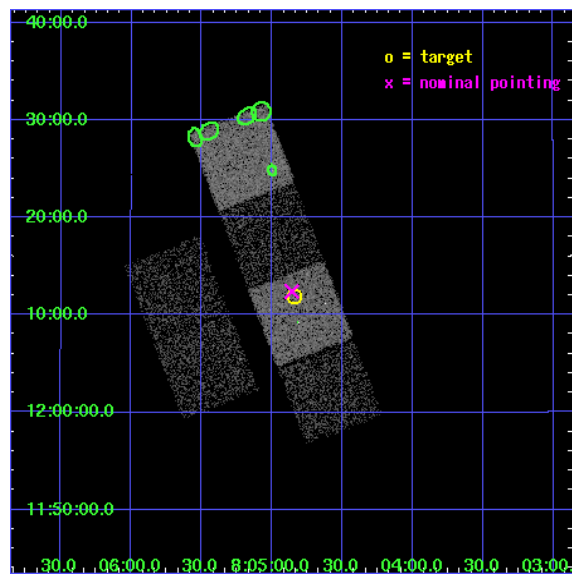
L2 Processing Date : Jan 19 2007

## 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

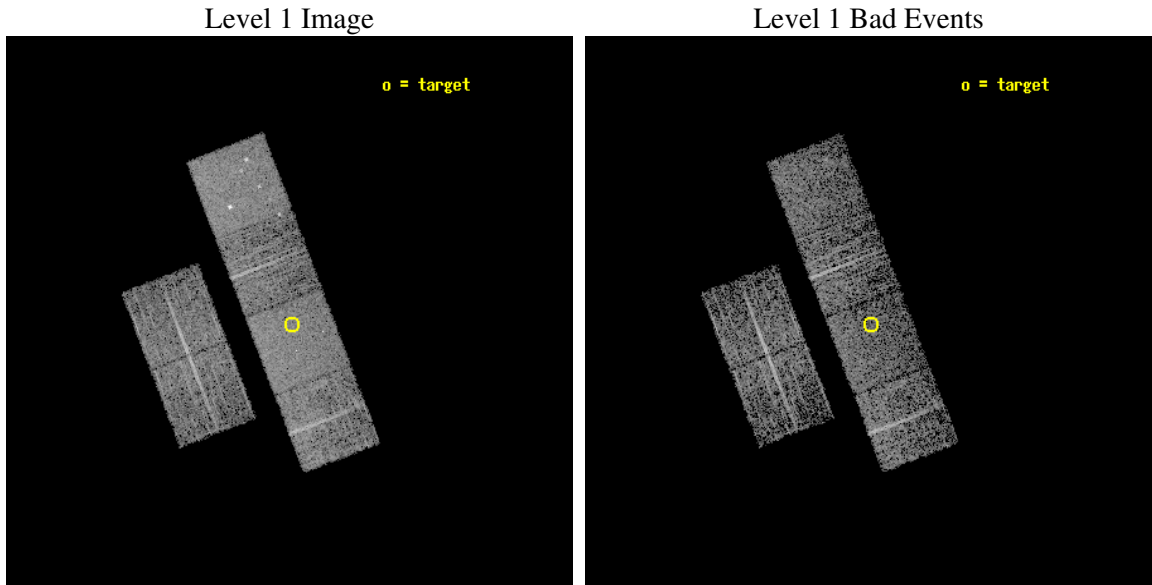
seq_num	100016
obs_id	593
title	ASTEROID OBSERVATION
observer	Professor Gordon Garmire
object	1998 WT24
dtcycle	0
cycle	P
ra_targ	121.20955
dec_targ	12.19849
ra_nom	121.21472325388
dec_nom	12.206916727383
roll_nom	69.082779206495
revision	2
ontime	3264.0000030398
livetime	3222.6692696565
ontime2	3264.0000030398
ontime3	3264.0000030398
ontime5	3264.0000030398
ontime6	3264.0000030398
ontime7	3264.0000030398
ontime8	3264.0000030398
l2events	33539



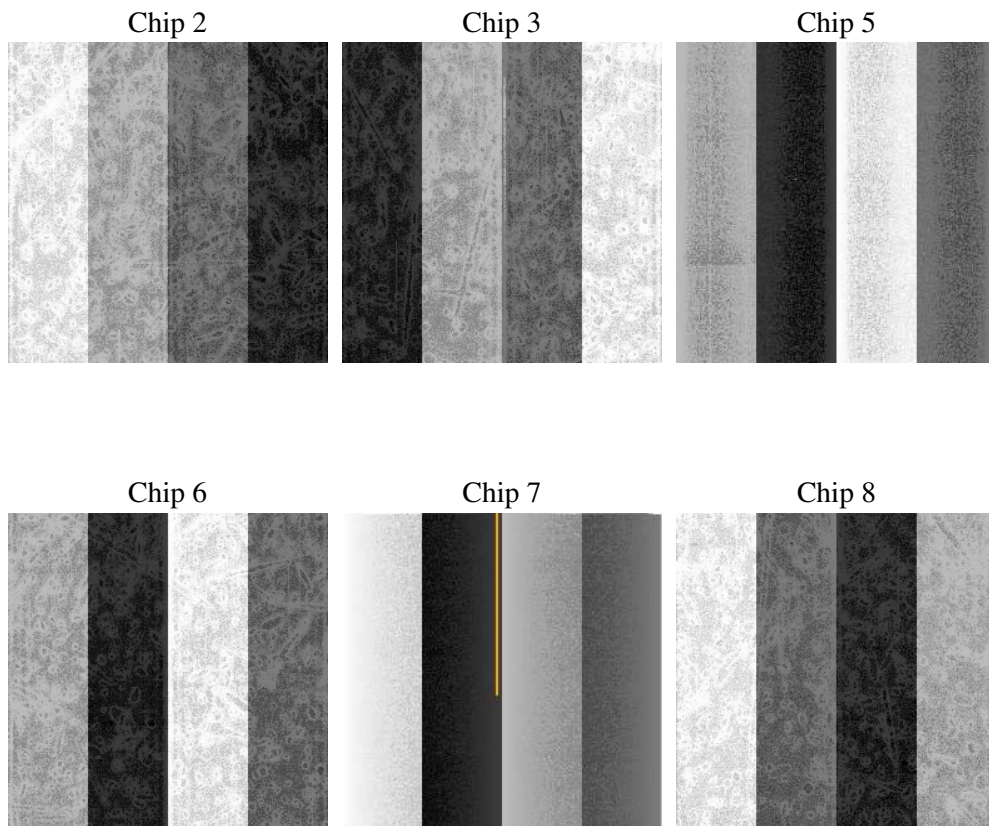
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0
ascdsver	7.6.10
caldbver	3.3.0
date	2007-01-19T23:39:11
revision	2

sched_exp_time	3300.000000
ontime	3264.0000030398
ontime2	3264.0000030398
ontime3	3264.0000030398
ontime5	3264.0000030398
ontime6	3264.0000030398
ontime7	3264.0000030398
ontime8	3264.0000030398
l1events	157962

### 2.1.4 Events

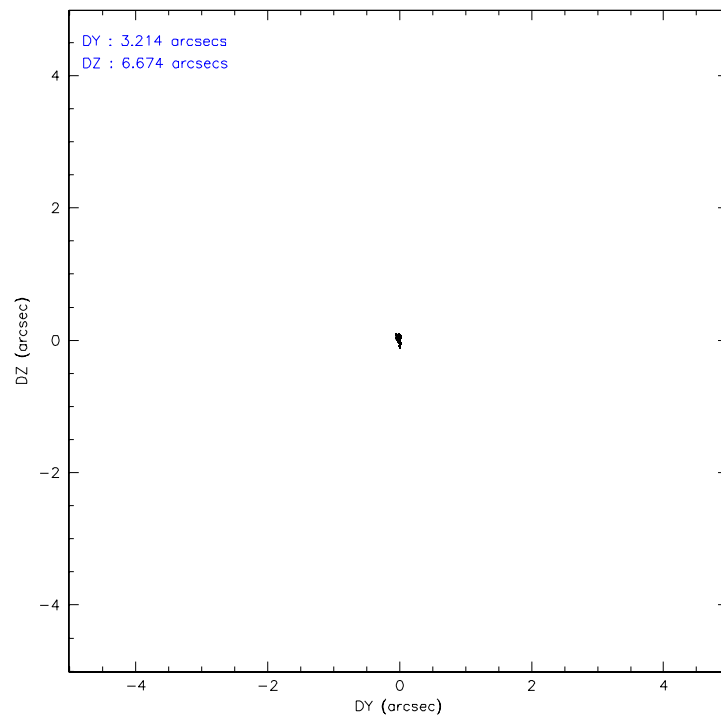
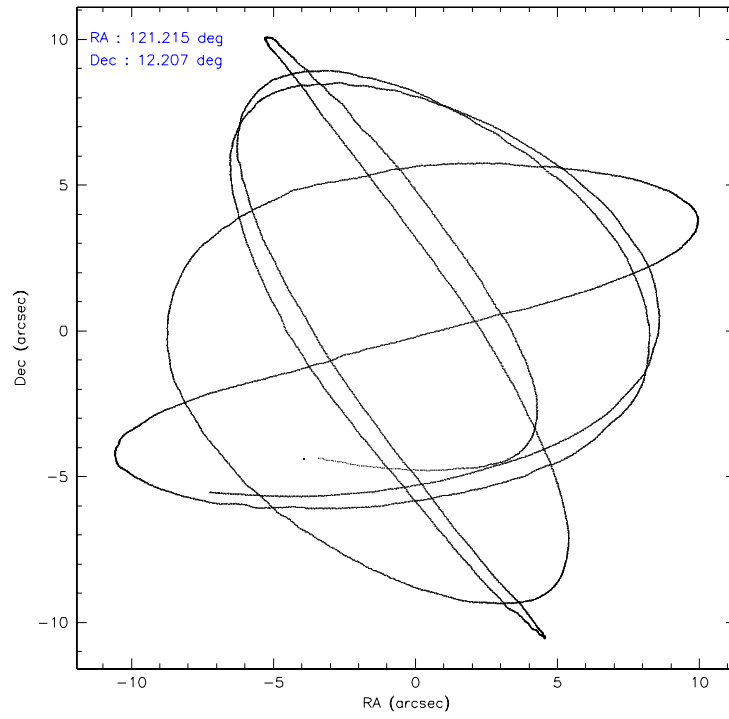
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	22976	22254	32826	23138	29425	27343
rejected events	20586	19741	17831	20606	17553	21821
rejected %	89%	88%	54%	89%	59%	79%

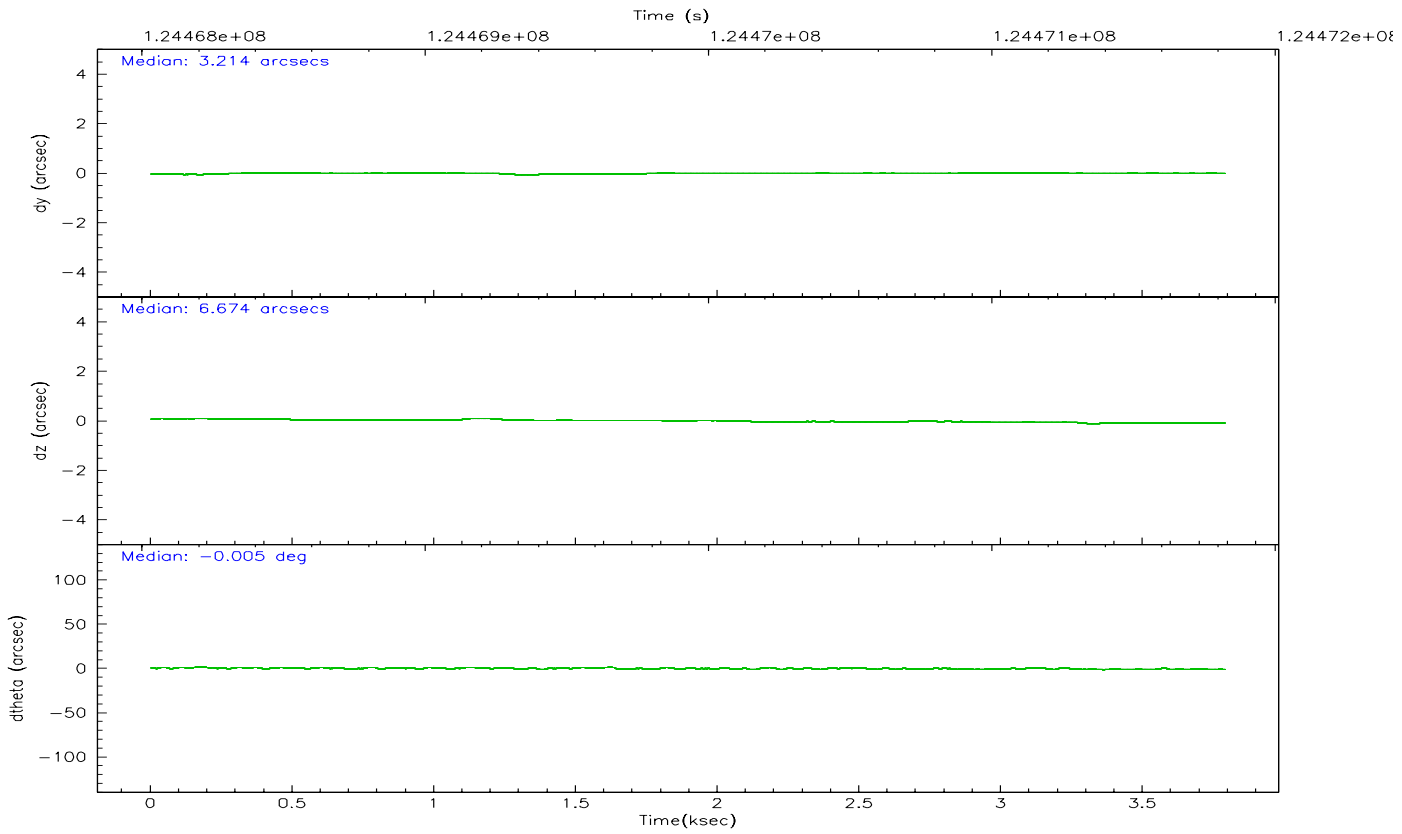
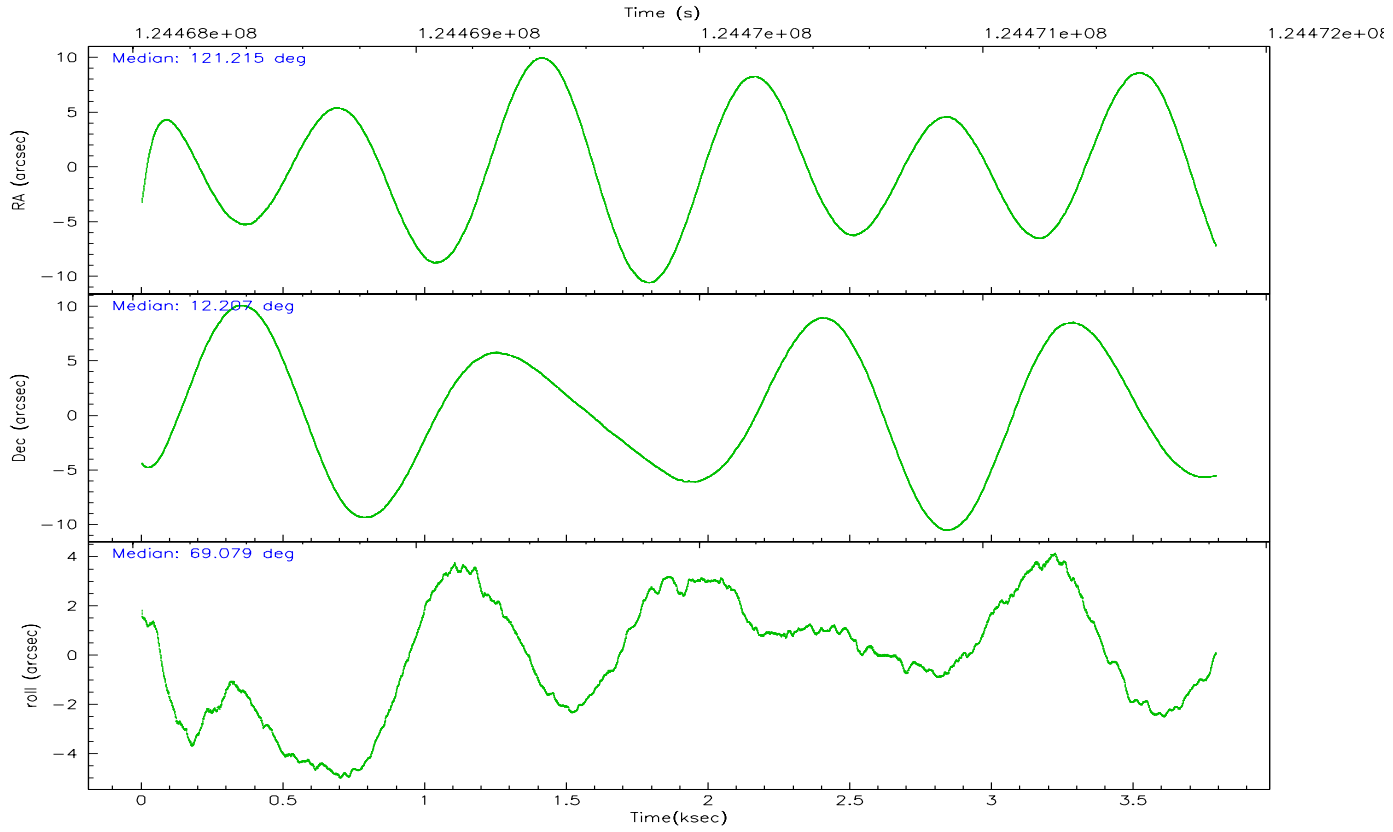
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	1011	1083	2178	1079	1257	1796
	4%	4%	6%	4%	4%	6%
grade 1 events	7	9	42	11	23	16
	0%	0%	0%	0%	0%	0%
grade 2 events	556	516	4576	532	2487	1261
	2%	2%	13%	2%	8%	4%
grade 3 events	245	268	624	255	1156	636
	1%	1%	1%	1%	3%	2%
grade 4 events	239	278	555	258	1153	592
	1%	1%	1%	1%	3%	2%
grade 5 events	786	848	2302	1027	2765	1176
	3%	3%	7%	4%	9%	4%
grade 6 events	440	483	7657	516	6397	1503
	1%	2%	23%	2%	21%	5%
grade 7 events	19692	18769	14892	19460	14187	20363
	85%	84%	45%	84%	48%	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	121.219423	121.2147232538781	Subarray requested	NONE	NONE
Pointing Dec	12.179951	12.20691672738324	Alternating exposures requested	N	N
Pointing Roll	68.925135	69.08277920649527	Primary exposure time	0.000000	3.2
Window start time	124416064.184000	124416064.184000			
Window stop time	124480804.184000	124480804.184000			
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	124468525.184000	124467409.30366			
Observation start date	2001-12-11T14:34:21	2001-12-11T14:16:49			
Observation end time	124471825.184000	124471958.76634			
Observation end date	2001-12-11T15:29:21	2001-12-11T15:32:38			
Read mode	TIMED	TIMED			

## 2.3 Aspect



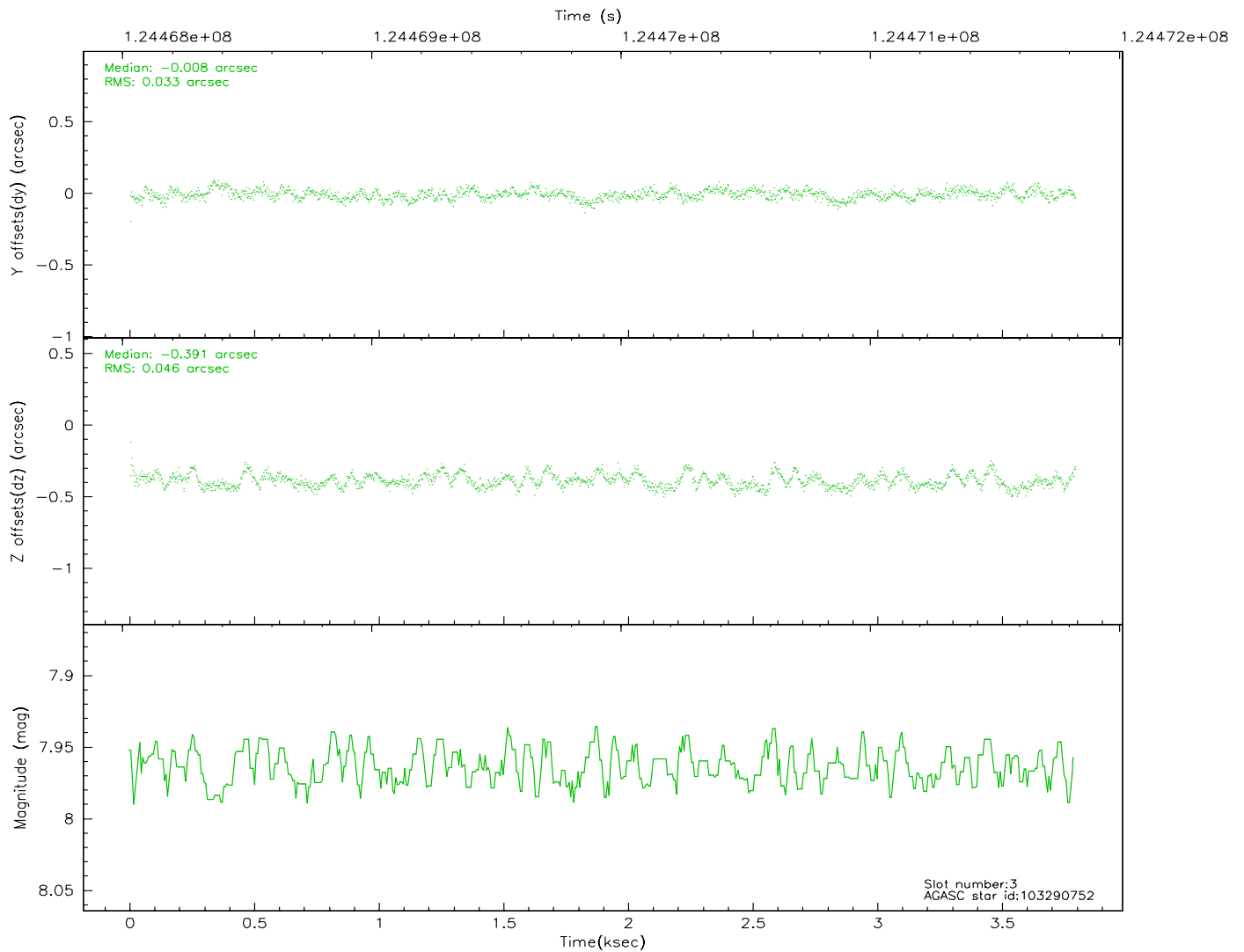
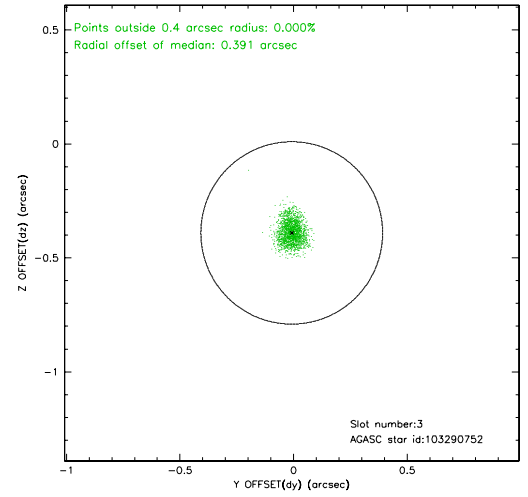
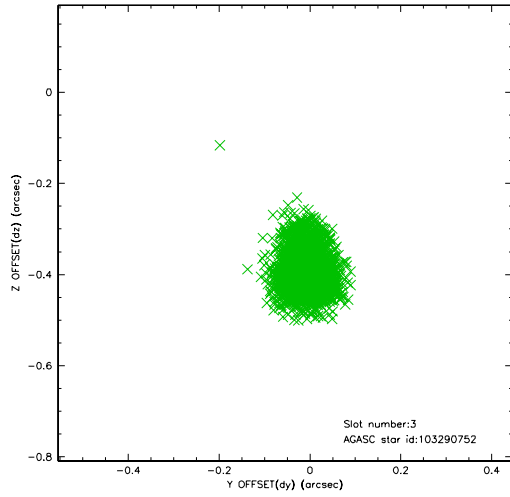


### Slot Statistics

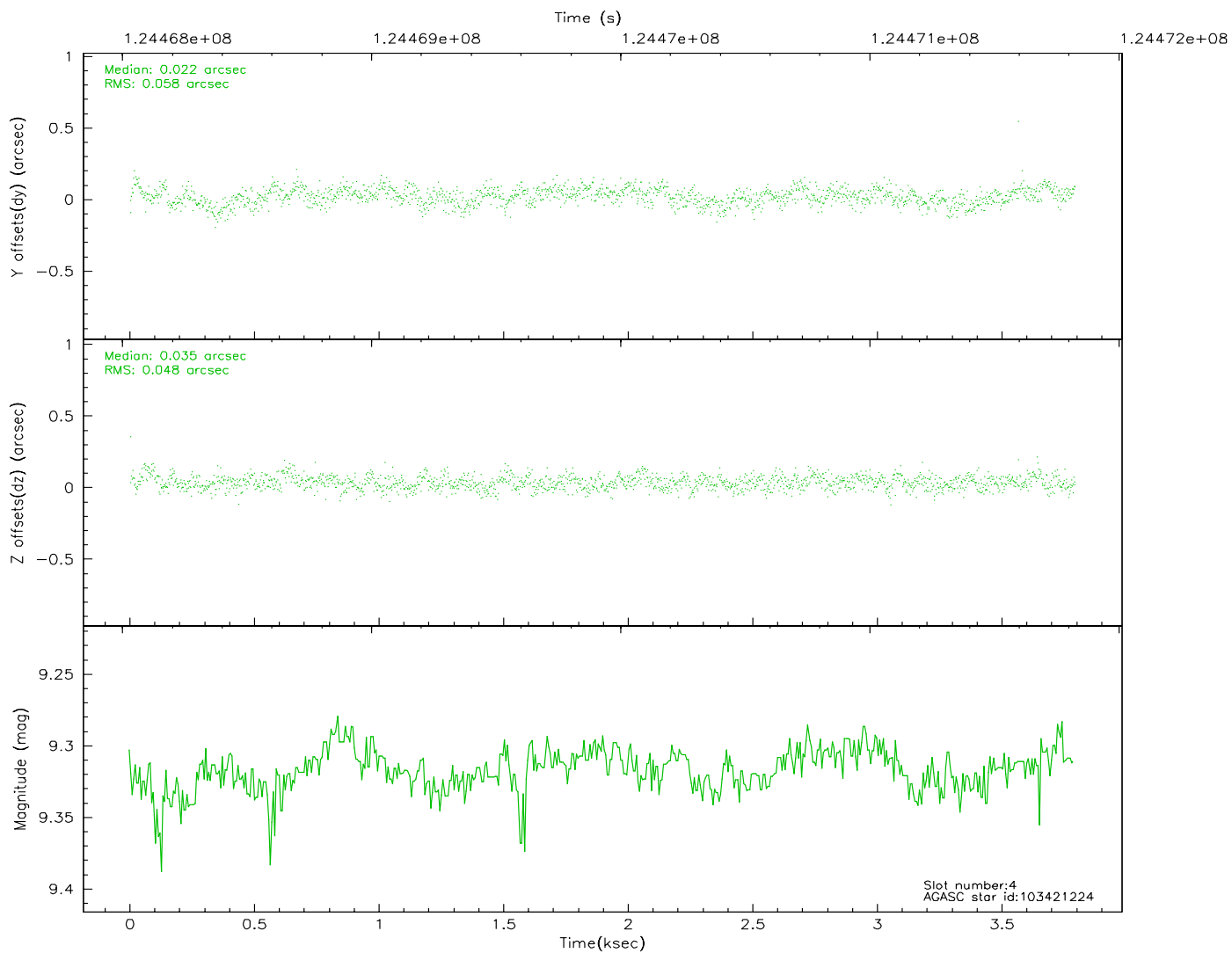
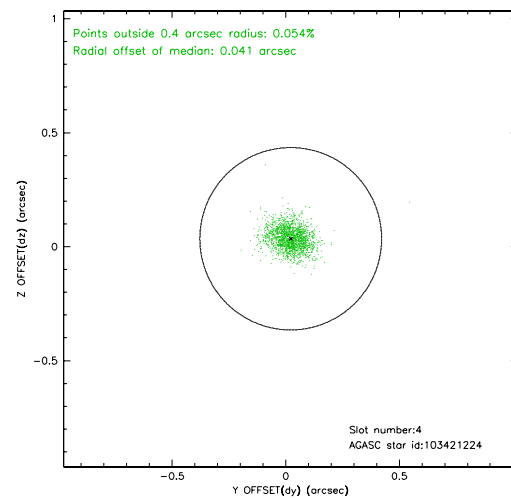
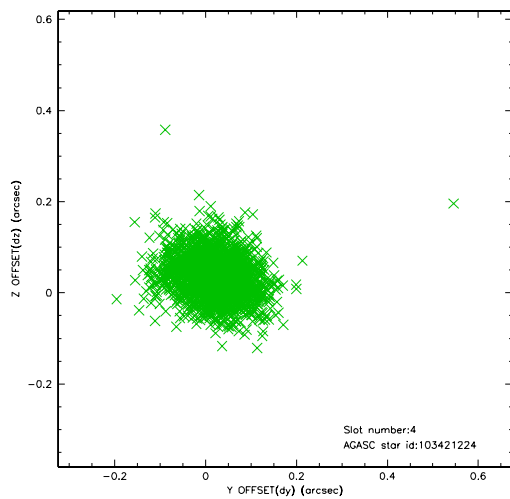
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	924	-0.010	0.034	0.006	0.011	0.000000	0.000000	-755.85	-1727.75
1	FID	ACIS-S-4	7.20	924	-0.059	-0.004	0.005	0.009	0.000000	0.000000	2156.61	179.02
2	FID	ACIS-S-5	7.24	925	0.037	-0.021	0.006	0.009	0.000000	0.000000	-1806.53	174.51
3	GUIDE	103290752	7.96	1850	-0.008	-0.391	0.060	0.097	120.637104	12.233484	-555.95	1981.62
4	GUIDE	103421224	9.32	1850	0.022	0.035	0.078	0.127	121.400696	12.500636	1305.35	-177.83
5	GUIDE	103424768	9.00	1848	0.128	0.199	0.064	0.104	121.477286	11.533975	-1842.52	-1684.58
6	GUIDE	103417320	8.82	1848	-0.215	-0.142	0.053	0.083	121.256221	12.700508	1792.98	552.63
7	GUIDE	103423600	9.30	1847	0.072	0.300	0.091	0.146	121.774733	11.805700	-551.44	-2308.87

## 2.4 Star Slots

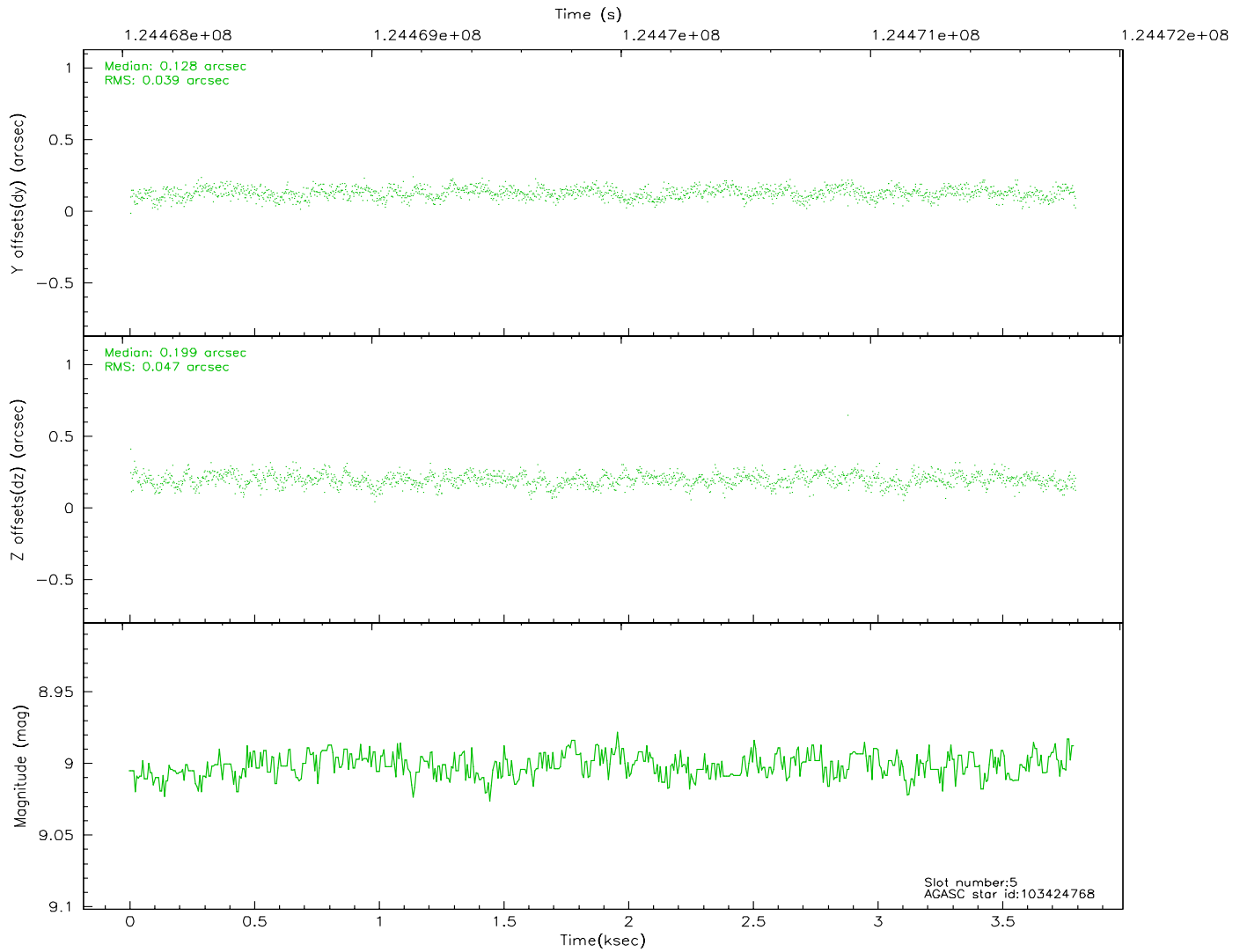
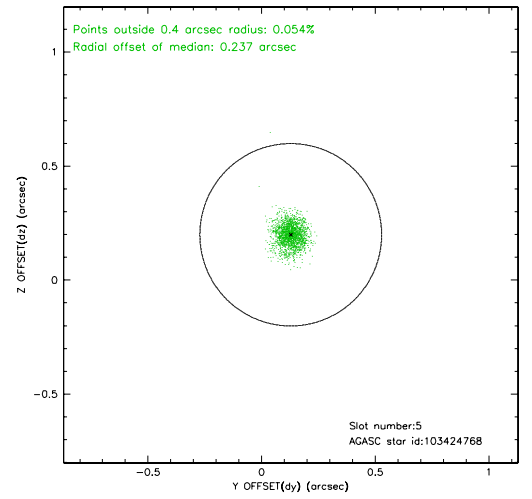
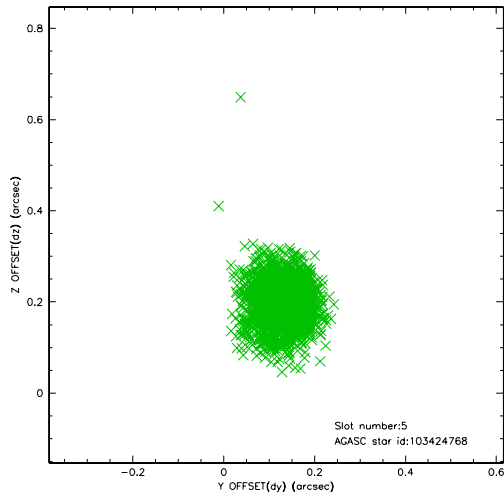
### 2.4.1 Slot 3



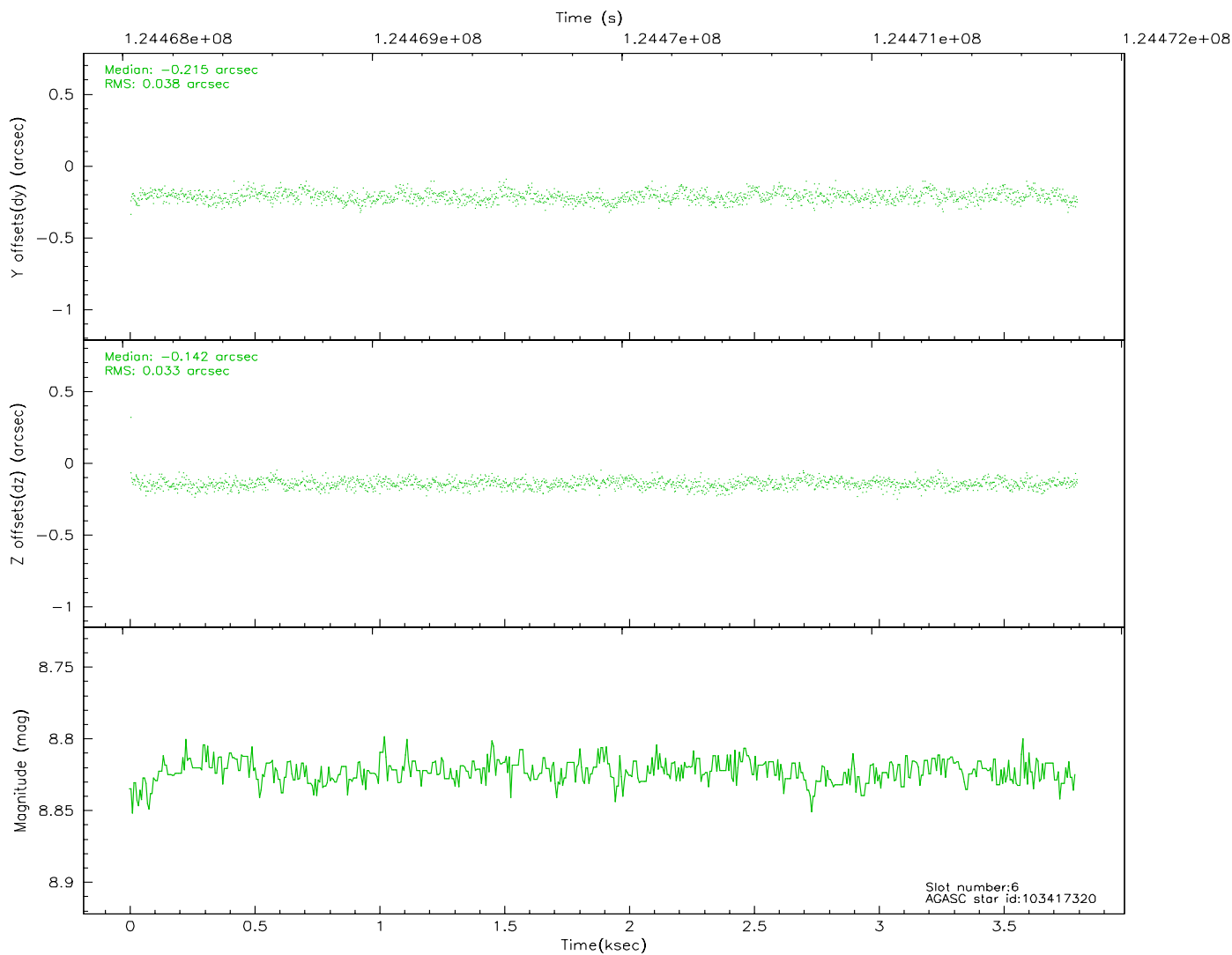
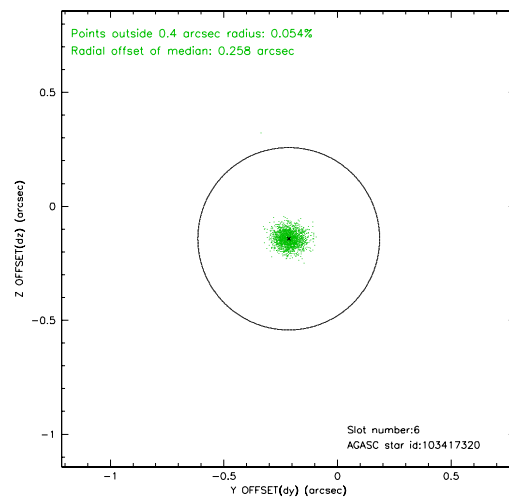
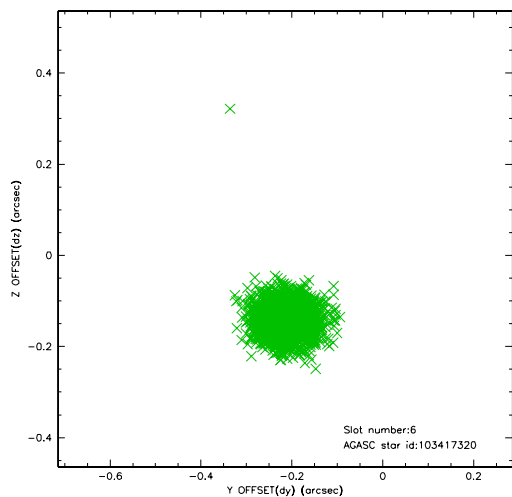
## 2.4.2 Slot 4



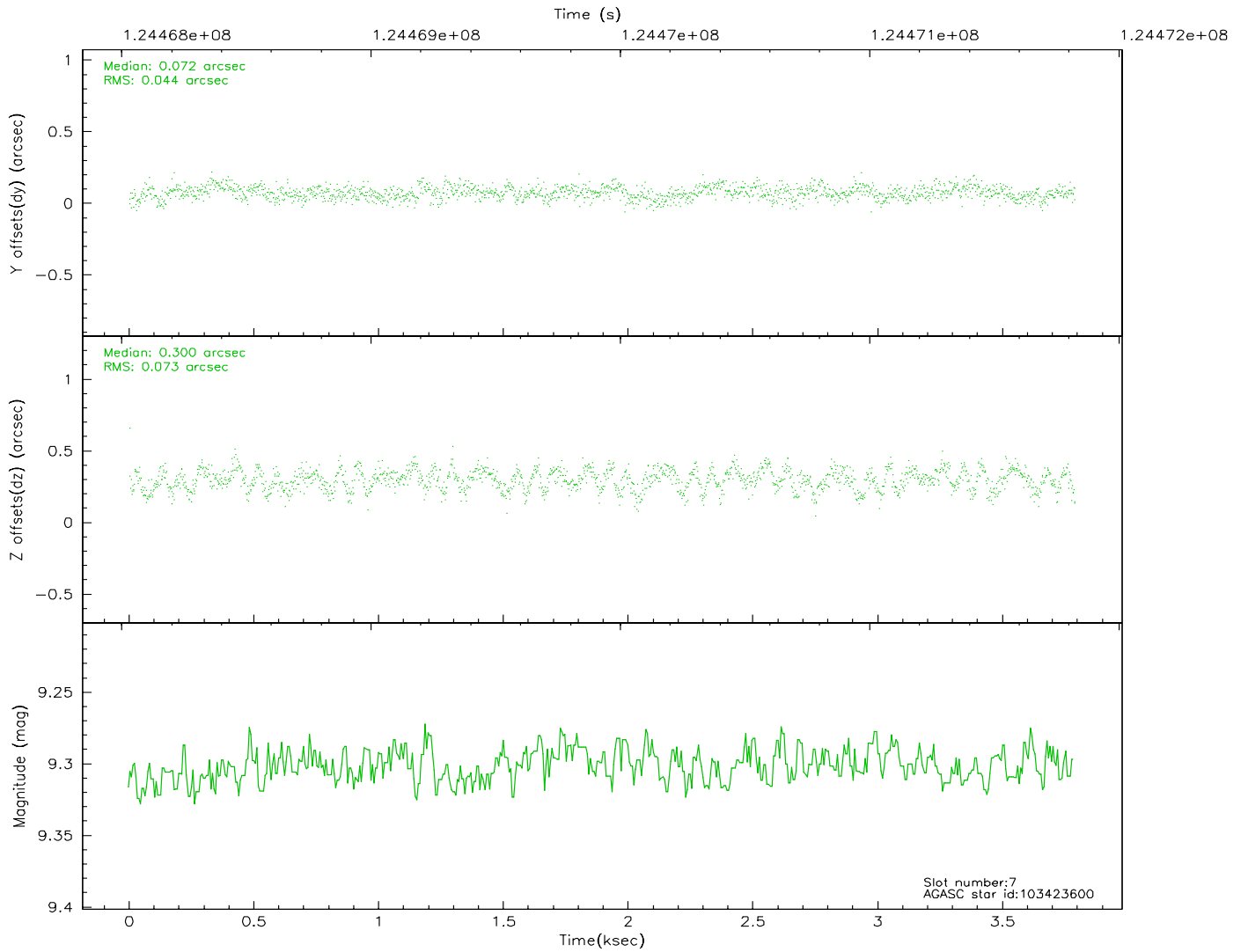
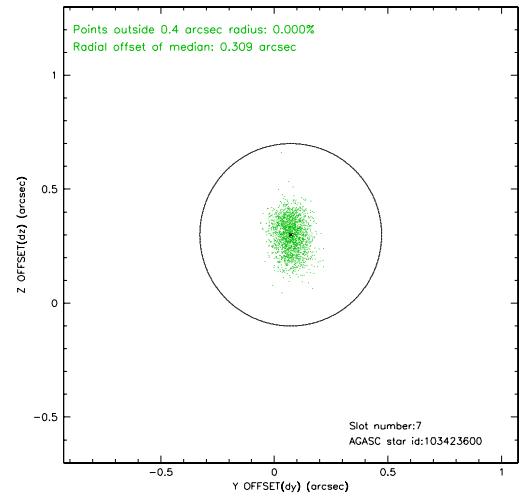
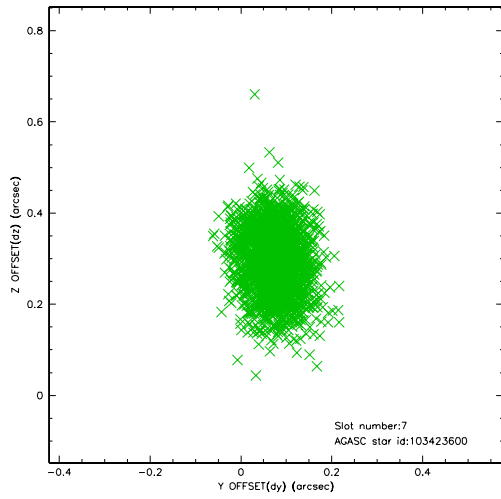
### 2.4.3 Slot 5



## 2.4.4 Slot 6

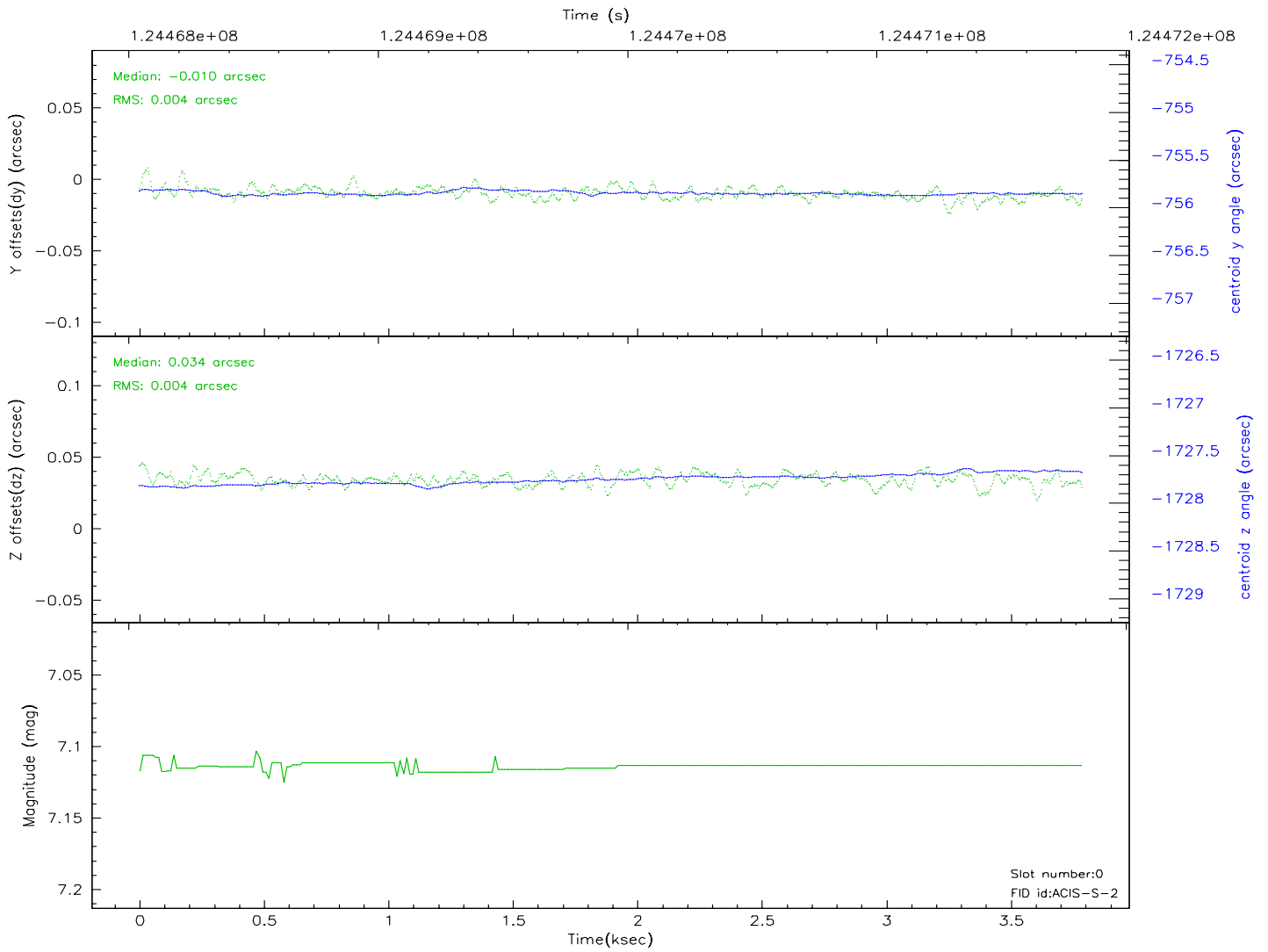
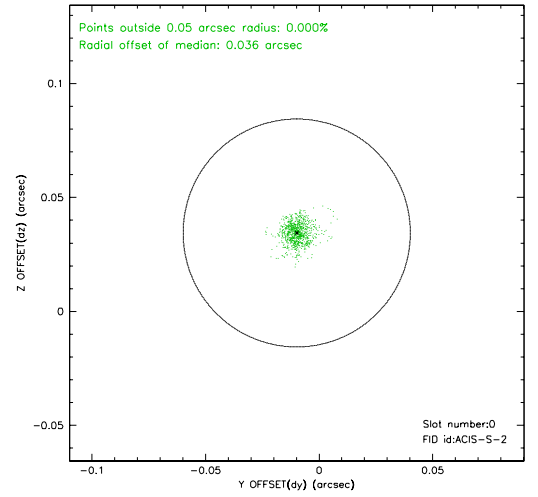
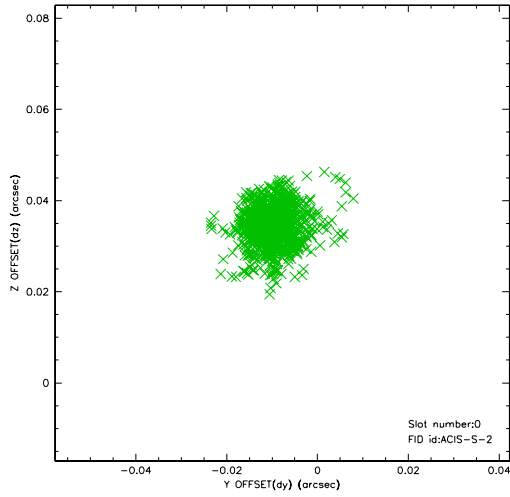


### 2.4.5 Slot 7

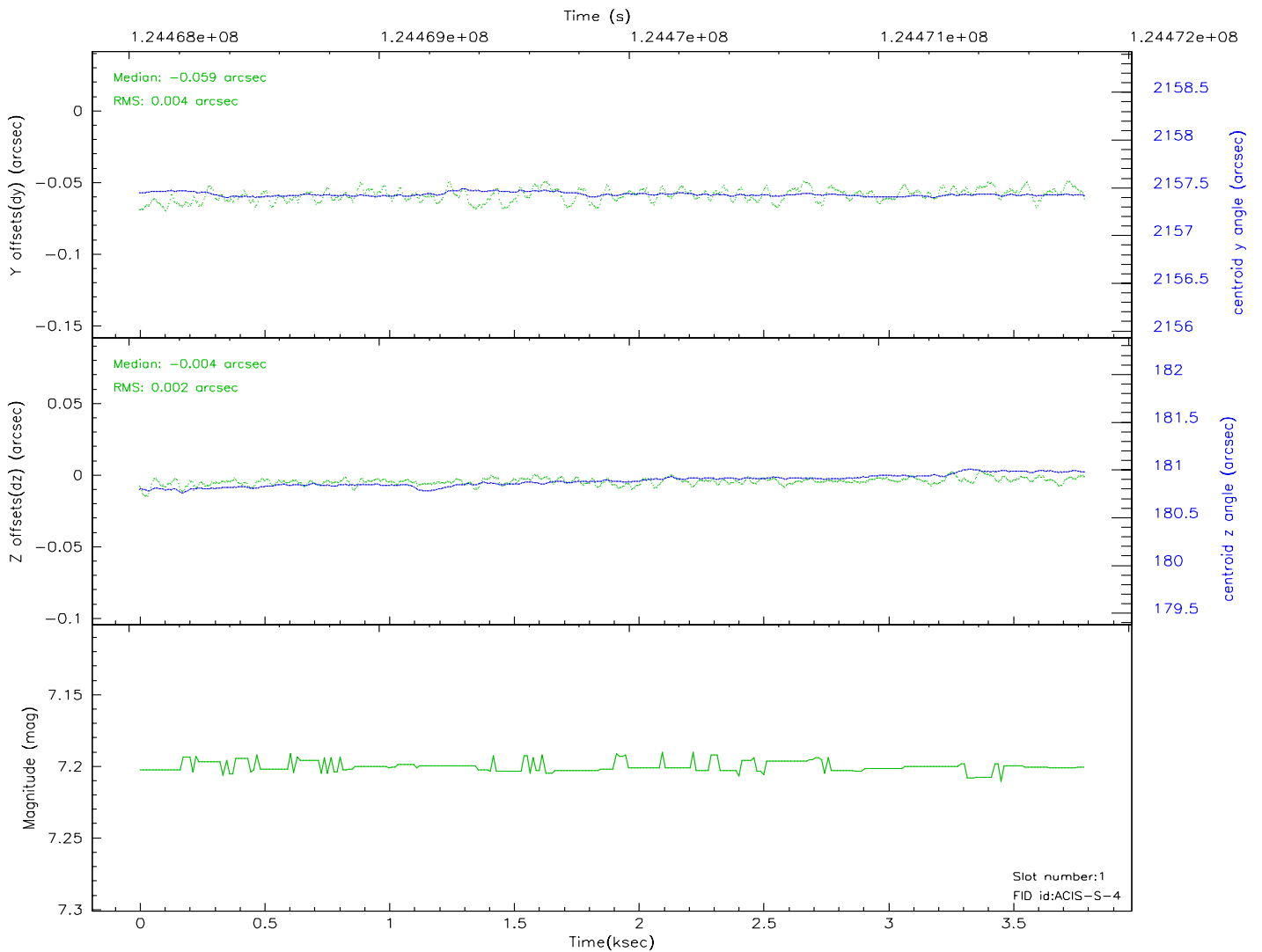
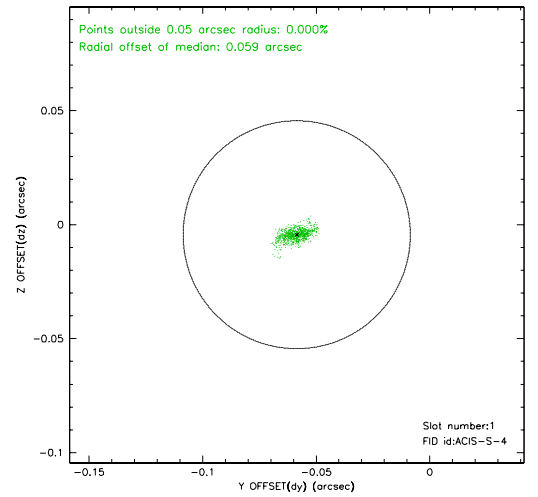
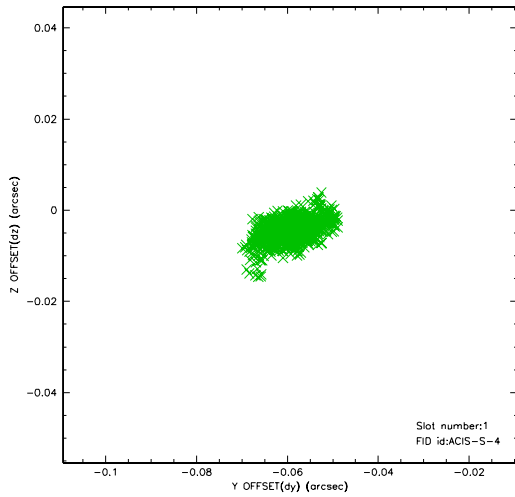


## 2.5 FID Slots

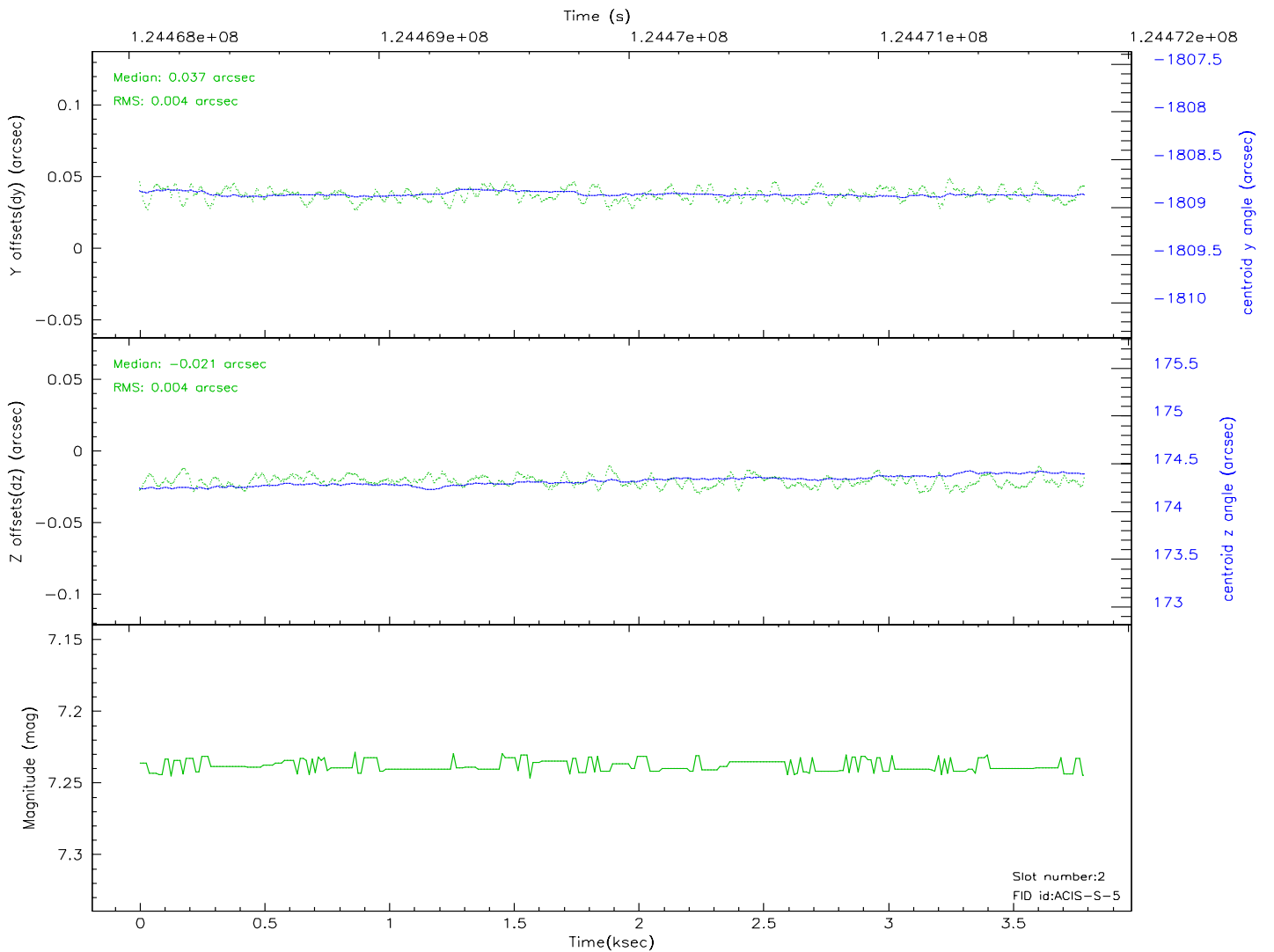
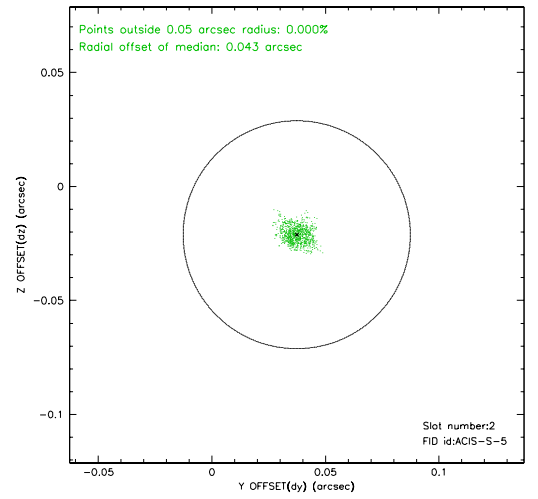
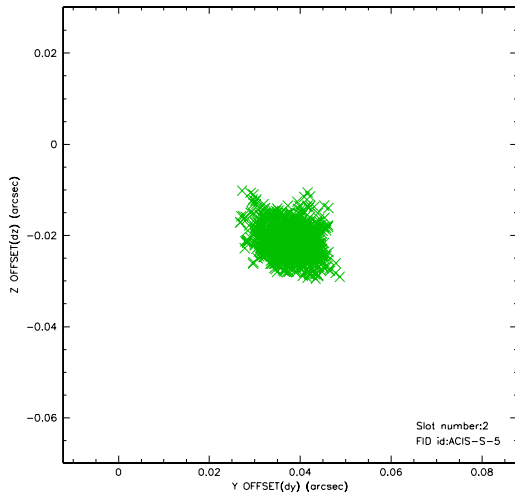
### 2.5.1 Slot 0



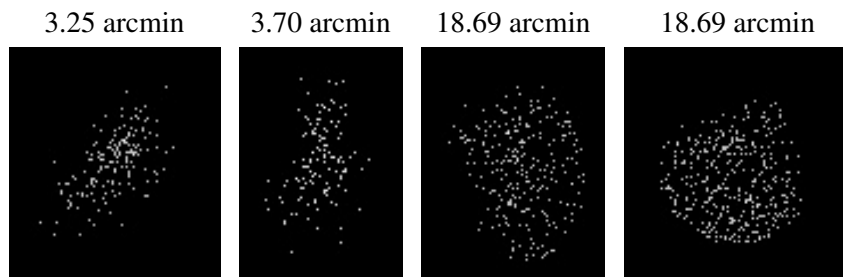
## 2.5.2 Slot 1



### 2.5.3 Slot 2



### 3 Point Sources



# A Summary

## A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2007.01.21
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.267

## A.2 Comments