

# V&V Reference Report

## L2 ASCDS Version : 7.6.7

Observation 5744 - L2 Version 002  
Chandra X-Ray Center

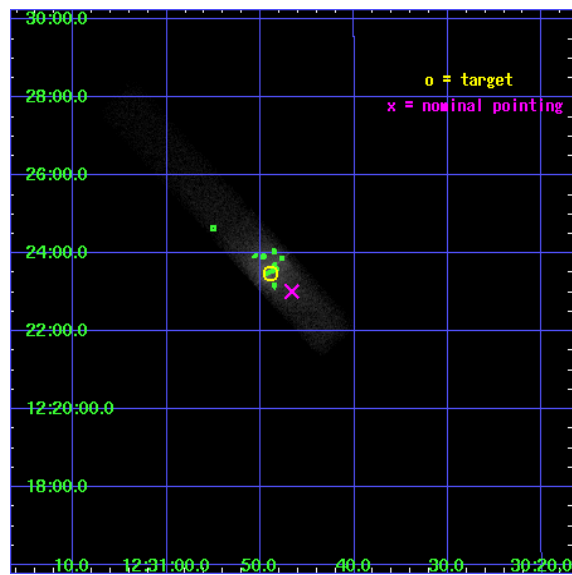
L2 Processing Date: Mar 2 2006

## 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

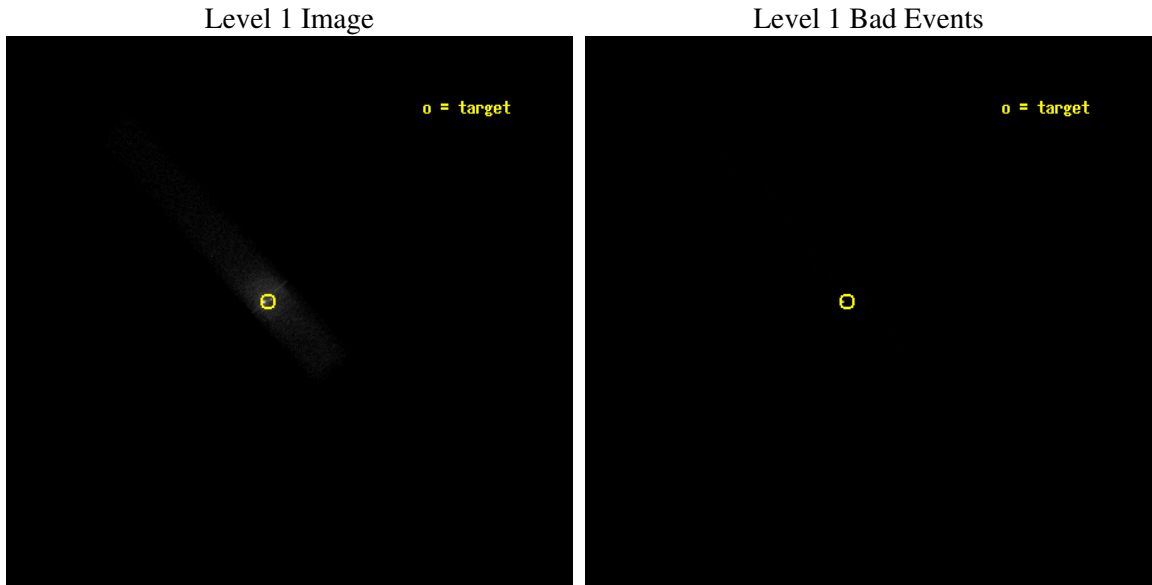
seq_num	701166
obs_id	5744
title	The X-ray Flares of Knot 'HST-1' in the M87 Jet (monitoring)
observer	Dr. John Biretta
object	M87
dtcycle	0
cycle	P
ra_targ	187.704167
dec_targ	12.391667
ra_nom	187.69444603413
dec_nom	12.383692168415
roll_nom	227.41684821283
revision	2
ontime	5181.2000772059
livetime	4699.0749838617
ontime7	5181.2000772059
l2events	59136



## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

obi_num	0
ascdsver	7.6.7
caldbver	3.2.1
date	2006-03-02T10:23:26
revision	2

sched_exp_time	5000.000000
ontime	6369.4301398695
ontime7	6369.4301398695
l1events	77431

### 2.1.4 Events

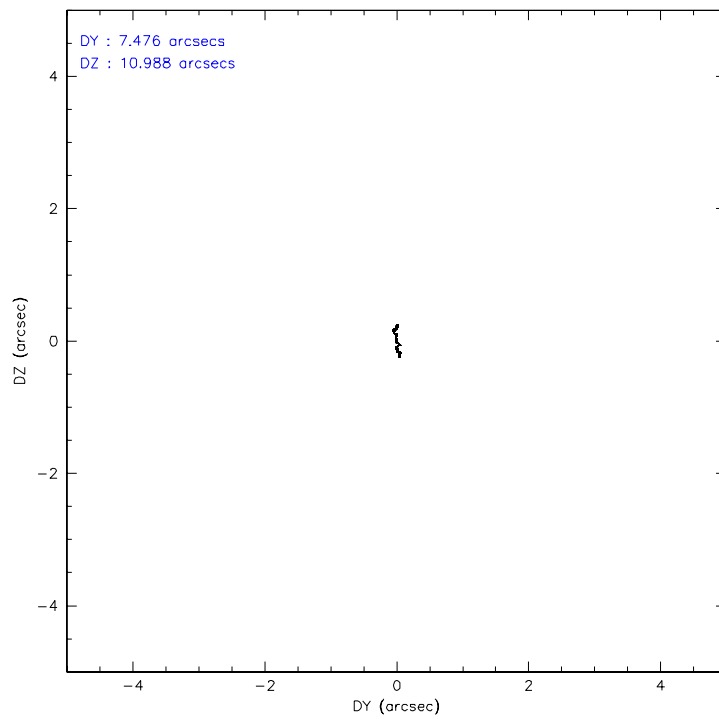
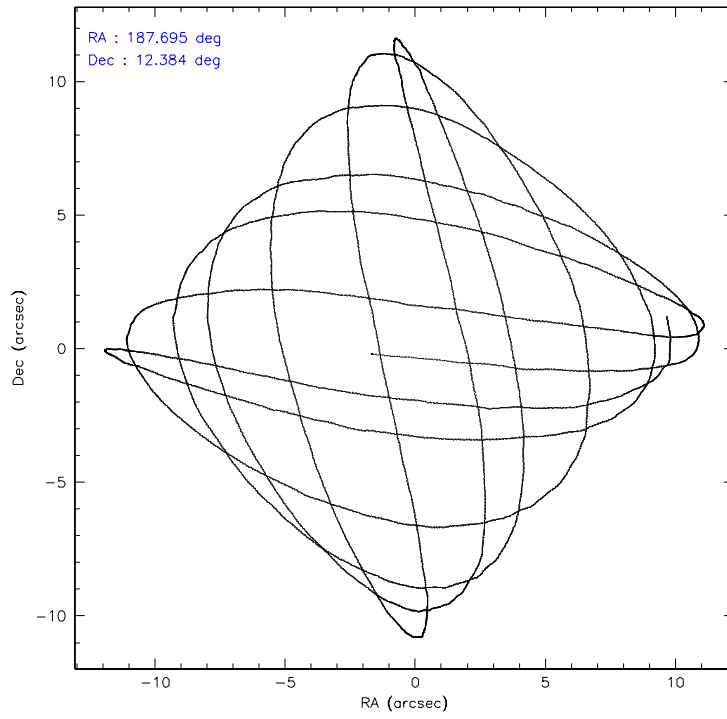
	<b>ccd 7</b>
level 1 events	77431
rejected events	17696
rejected %	22%

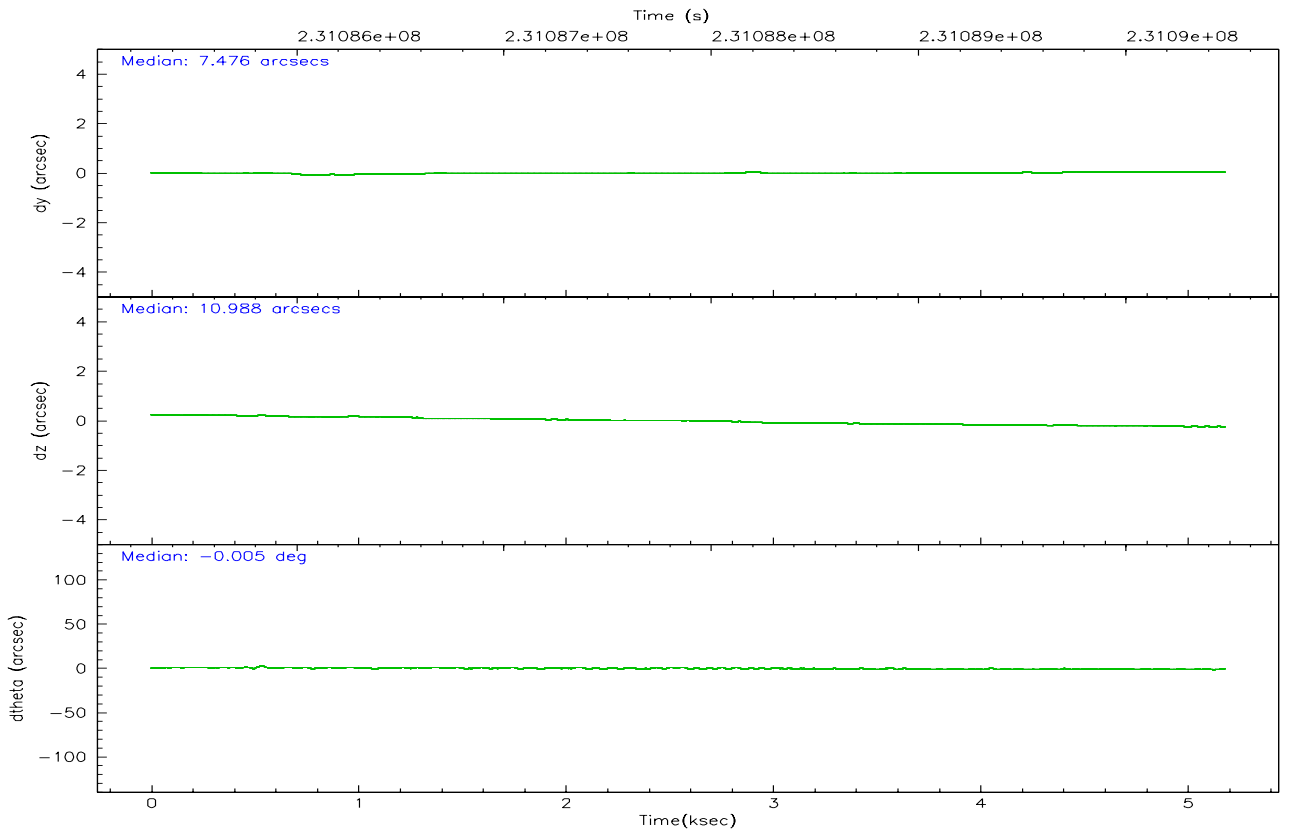
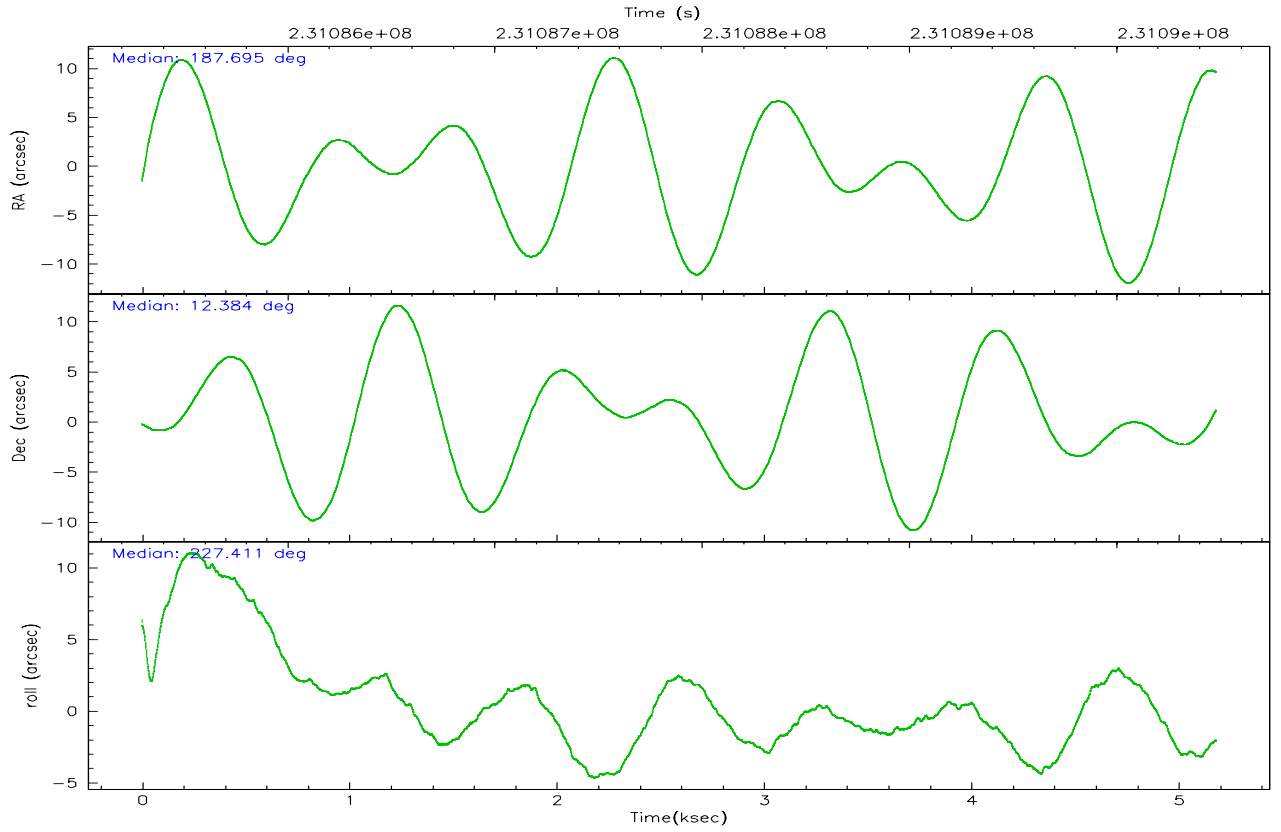
	<b>ccd 7</b>
grade 0 events	17384
	22%
grade 1 events	366
	0%
grade 2 events	16020
	20%
grade 3 events	6924
	8%
grade 4 events	6680
	8%
grade 5 events	2763
	3%
grade 6 events	15066
	19%
grade 7 events	12228
	15%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-7	ACIS-7	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	On-chip summing requested	N	N
Observation mode	POINTING	POINTING	Subarray requested	1/8	1/8
Pointing RA	187.700028	187.6944460341256	Subarray start row	0	449
Pointing Dec	12.410376	12.38369216841504	Subarray row count	1024	128
Pointing Roll	227.259019	227.4168482128269	Alternating exposures requested	N	N
Window start time	230774464.184000	230774464.184000	Primary exposure time	0.000000	0.4
Window stop time	231379264.184000	231379264.184000			
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	231085474.184000	231084105.48461			
Observation start date	2005-04-28T14:23:30	2005-04-28T14:01:45			
Observation end time	231090474.184000	231090778.23491			
Observation end date	2005-04-28T15:46:50	2005-04-28T15:52:58			
Read mode	TIMED	TIMED			

## 2.3 Aspect



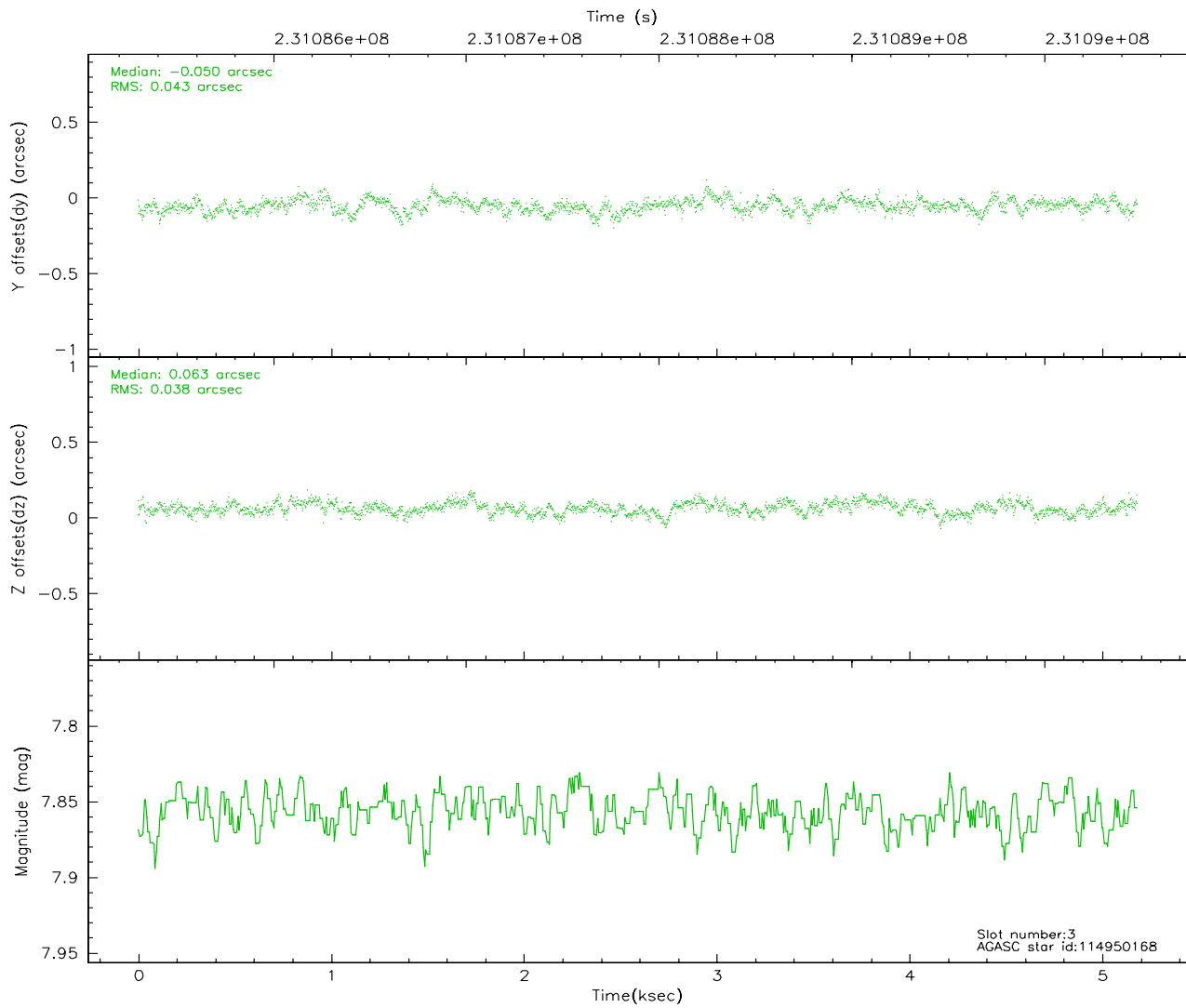
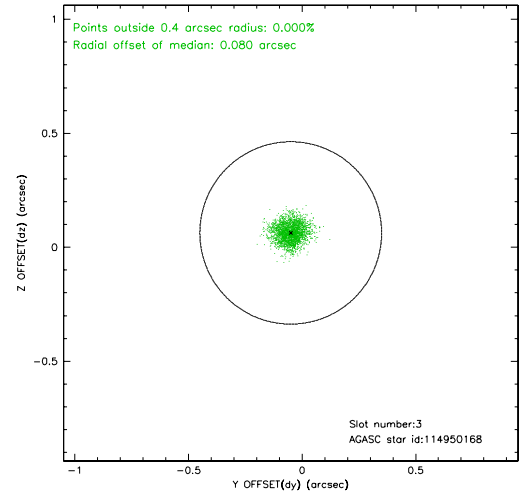
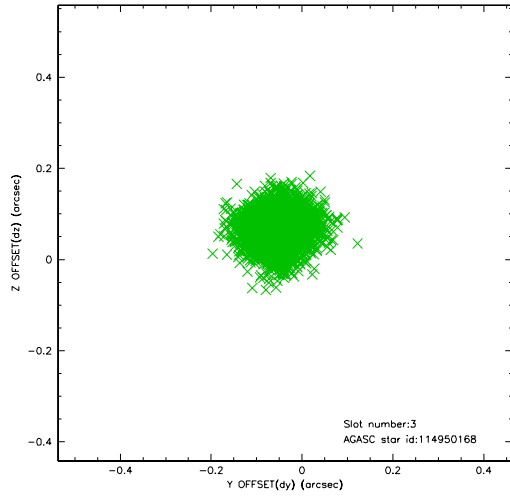


### Slot Statistics

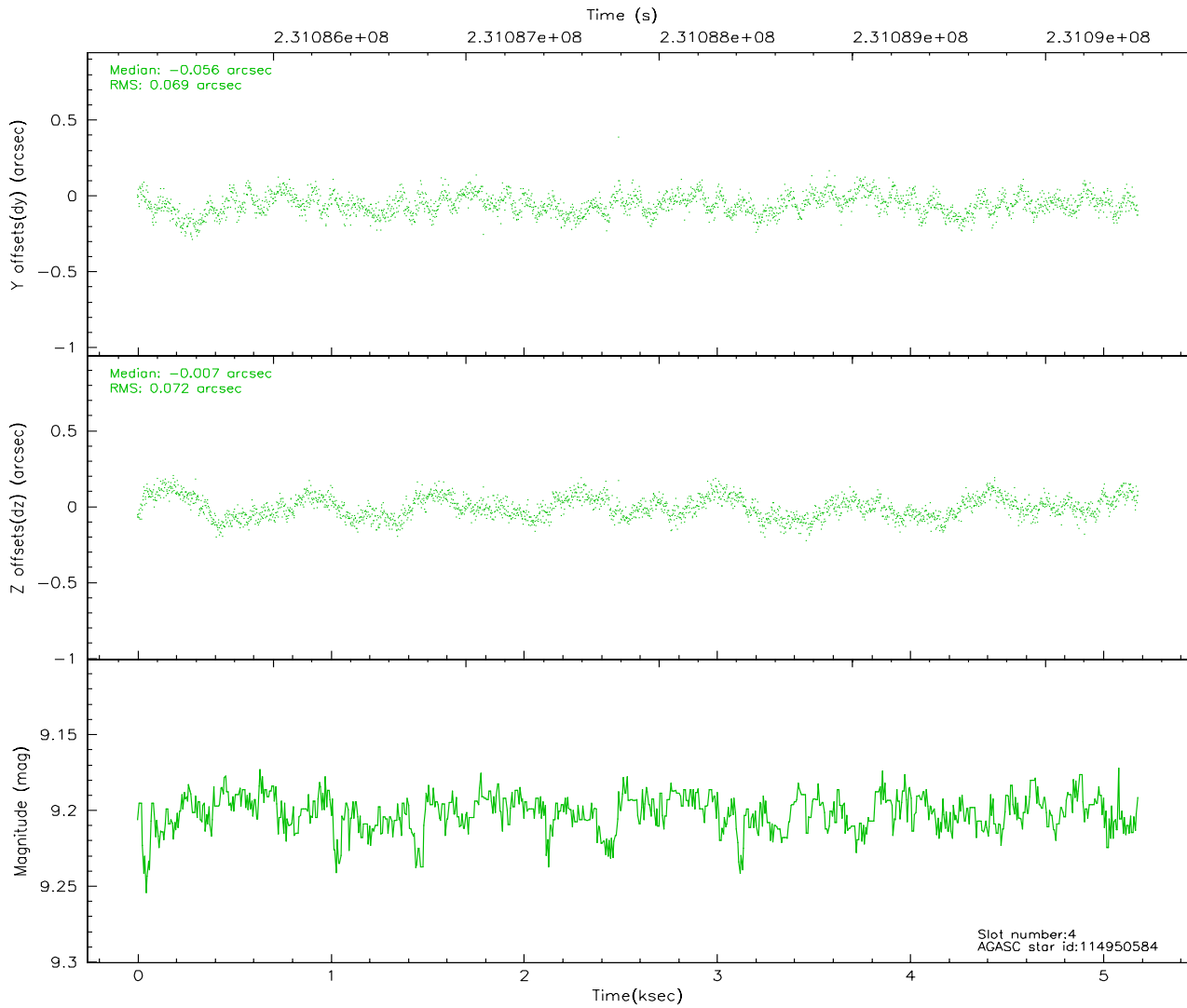
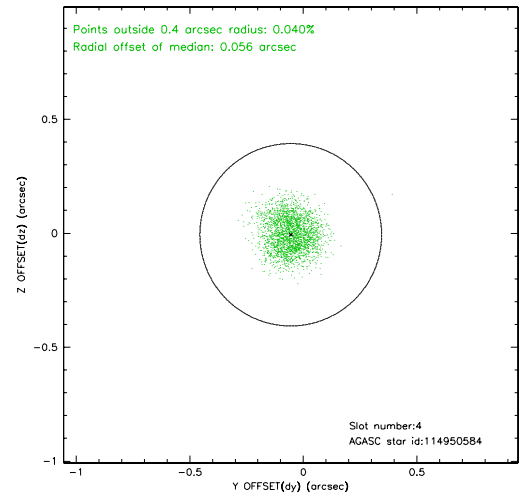
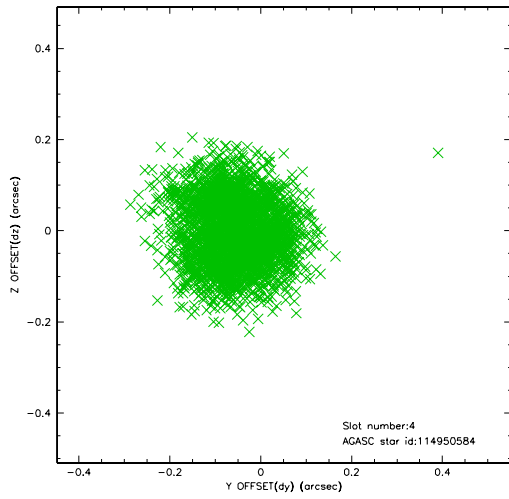
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	1264	-0.030	0.005	0.008	0.013	0.000000	0.000000	-760.23	-1732.26
1	FID	ACIS-S-4	7.21	1264	0.054	0.014	0.007	0.012	0.000000	0.000000	2152.56	175.08
2	FID	ACIS-S-5	7.23	1265	-0.054	-0.010	0.006	0.010	0.000000	0.000000	-1811.64	169.98
3	GUIDE	114950168	7.86	2528	-0.050	0.063	0.061	0.096	187.143398	12.117441	2103.31	-724.52
4	GUIDE	114950584	9.20	2529	-0.056	-0.007	0.107	0.167	187.487323	11.827248	2051.55	873.64
5	GUIDE	114952824	8.58	2527	0.008	0.096	0.075	0.115	187.703904	12.486727	-209.61	-176.55
6	GUIDE	114955056	8.31	2529	0.038	-0.094	0.072	0.115	187.914001	12.127854	235.99	1242.68
7	GUIDE	114954440	9.19	2526	0.060	-0.058	0.104	0.168	186.915066	12.219118	2377.74	-1563.06

## 2.4 Star Slots

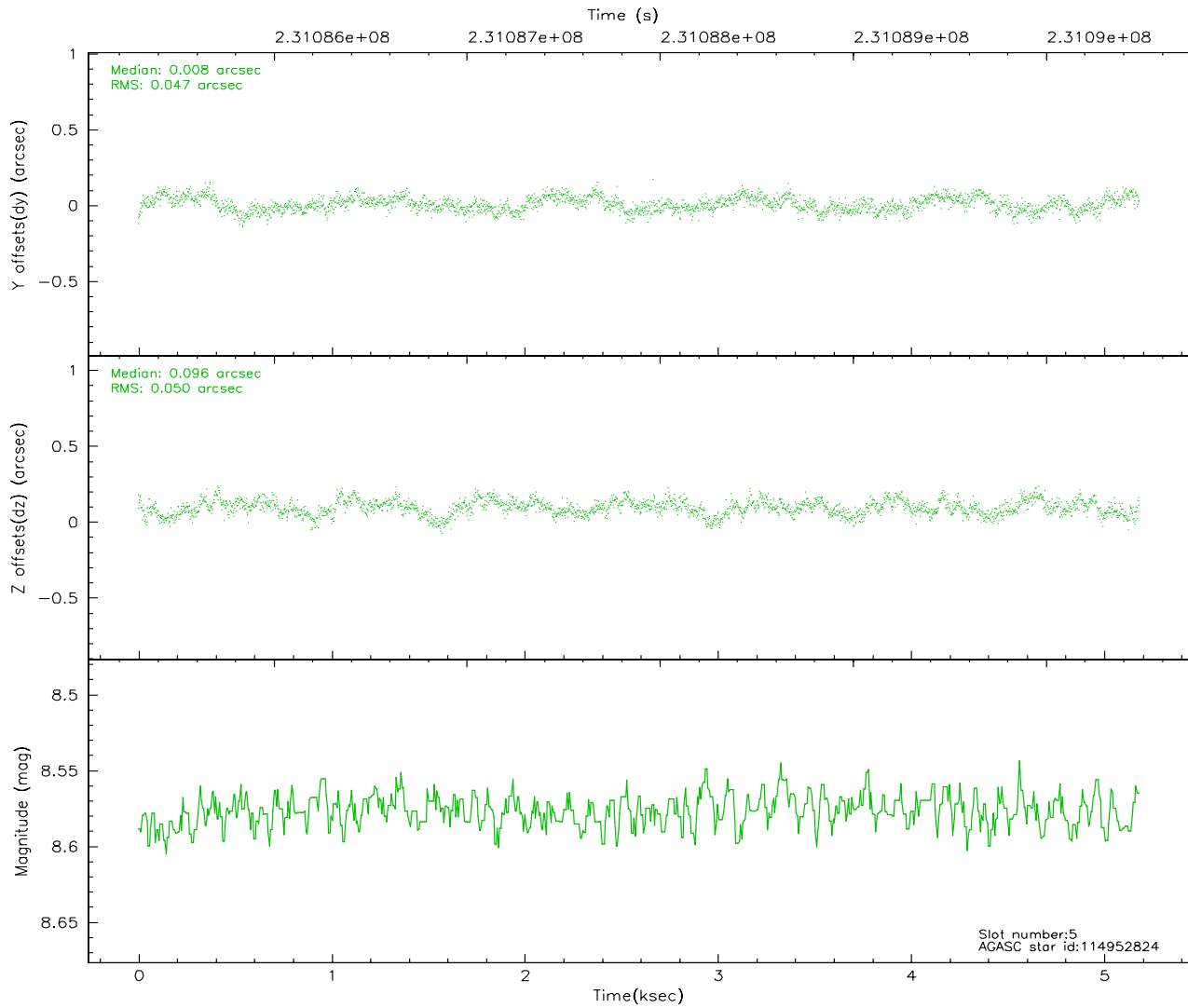
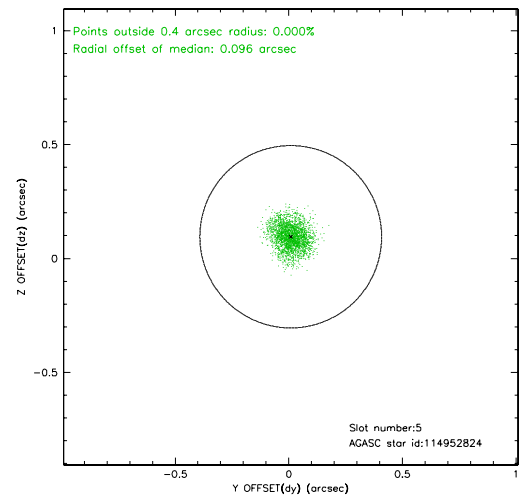
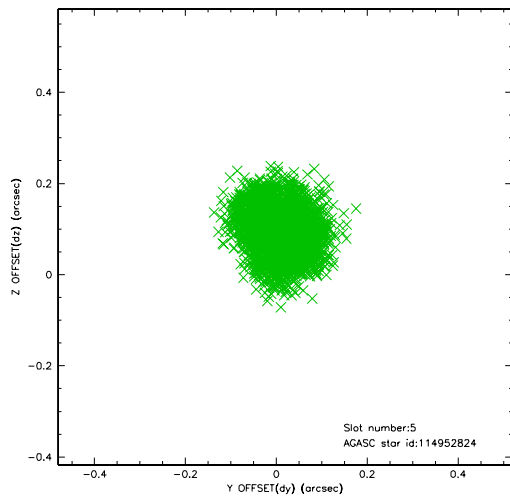
### 2.4.1 Slot 3



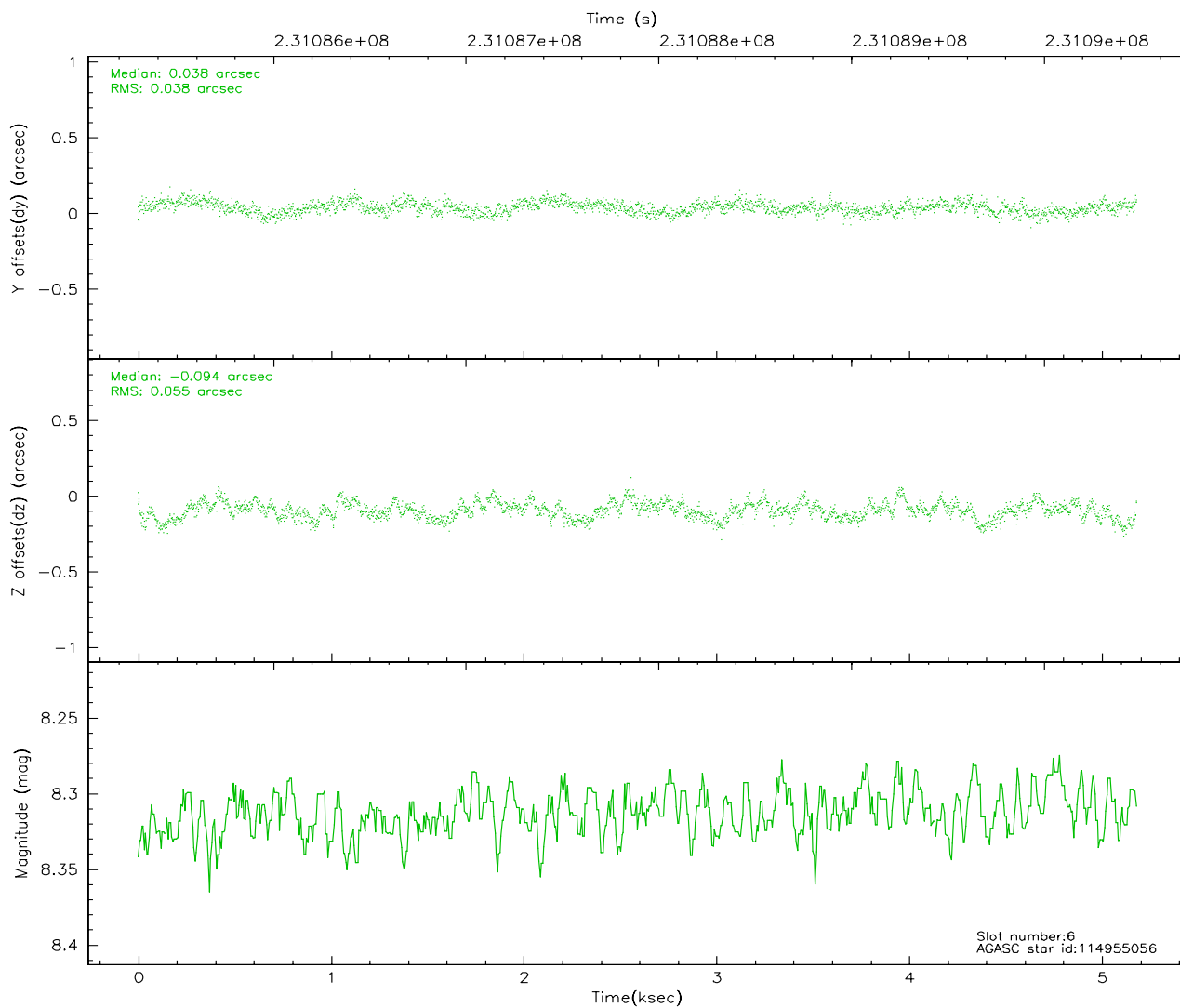
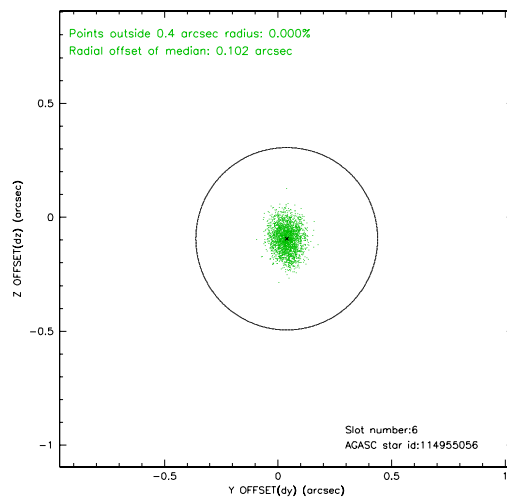
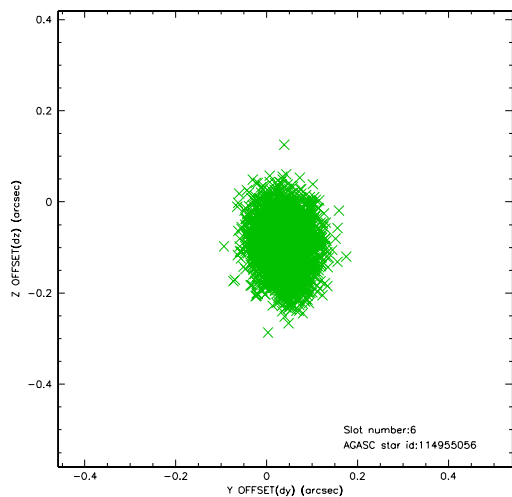
### 2.4.2 Slot 4



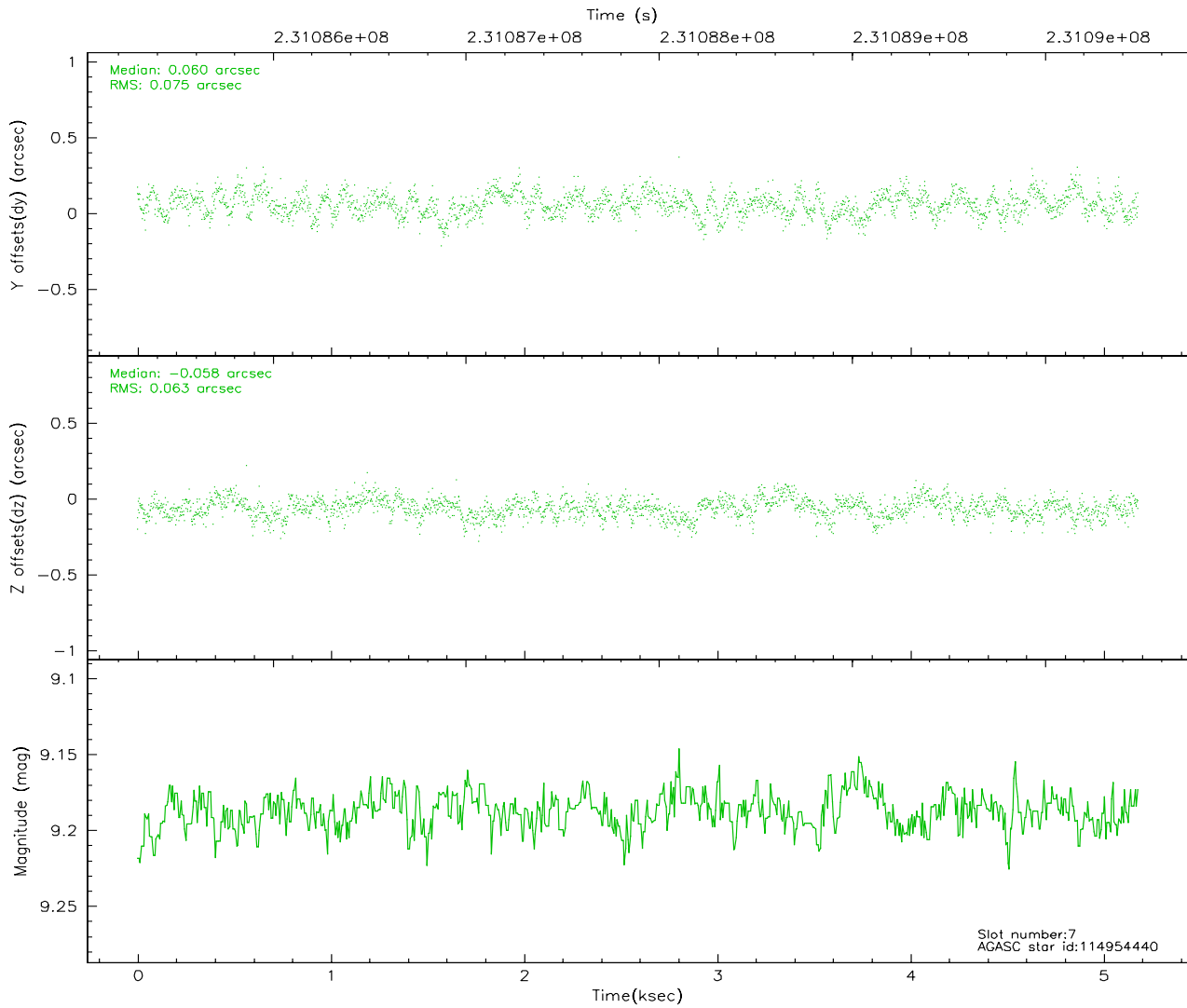
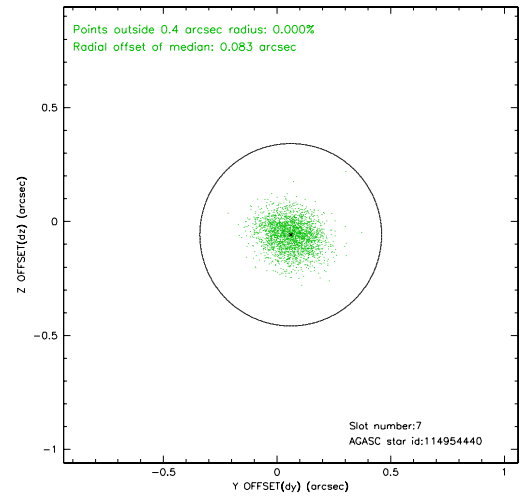
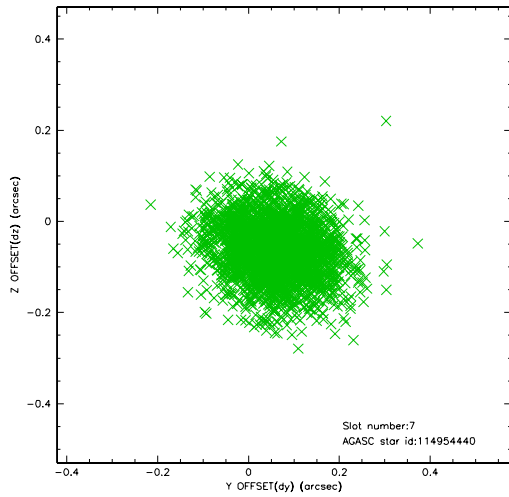
### 2.4.3 Slot 5



### 2.4.4 Slot 6

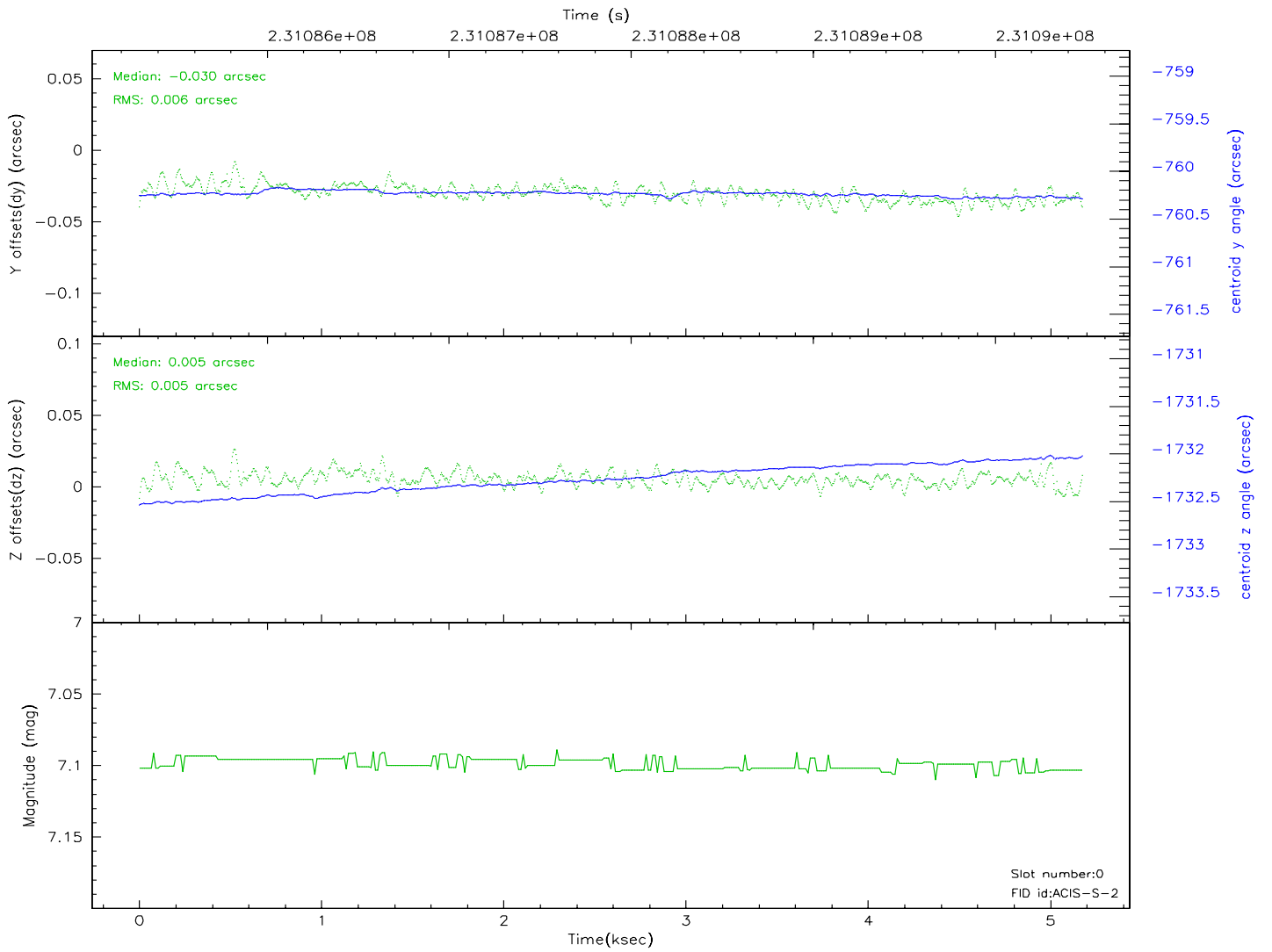
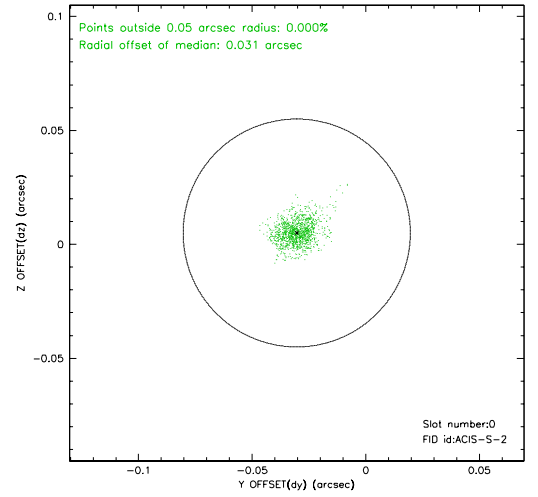
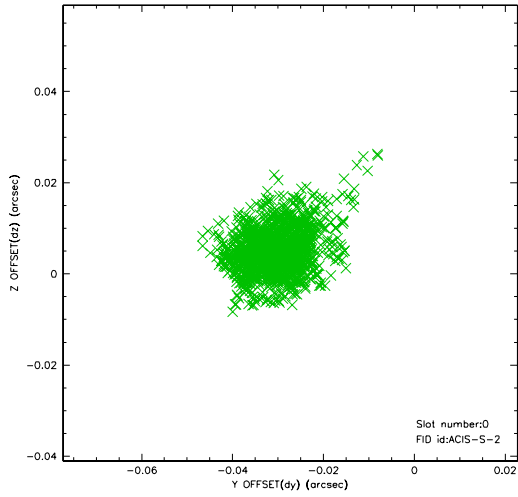


### 2.4.5 Slot 7

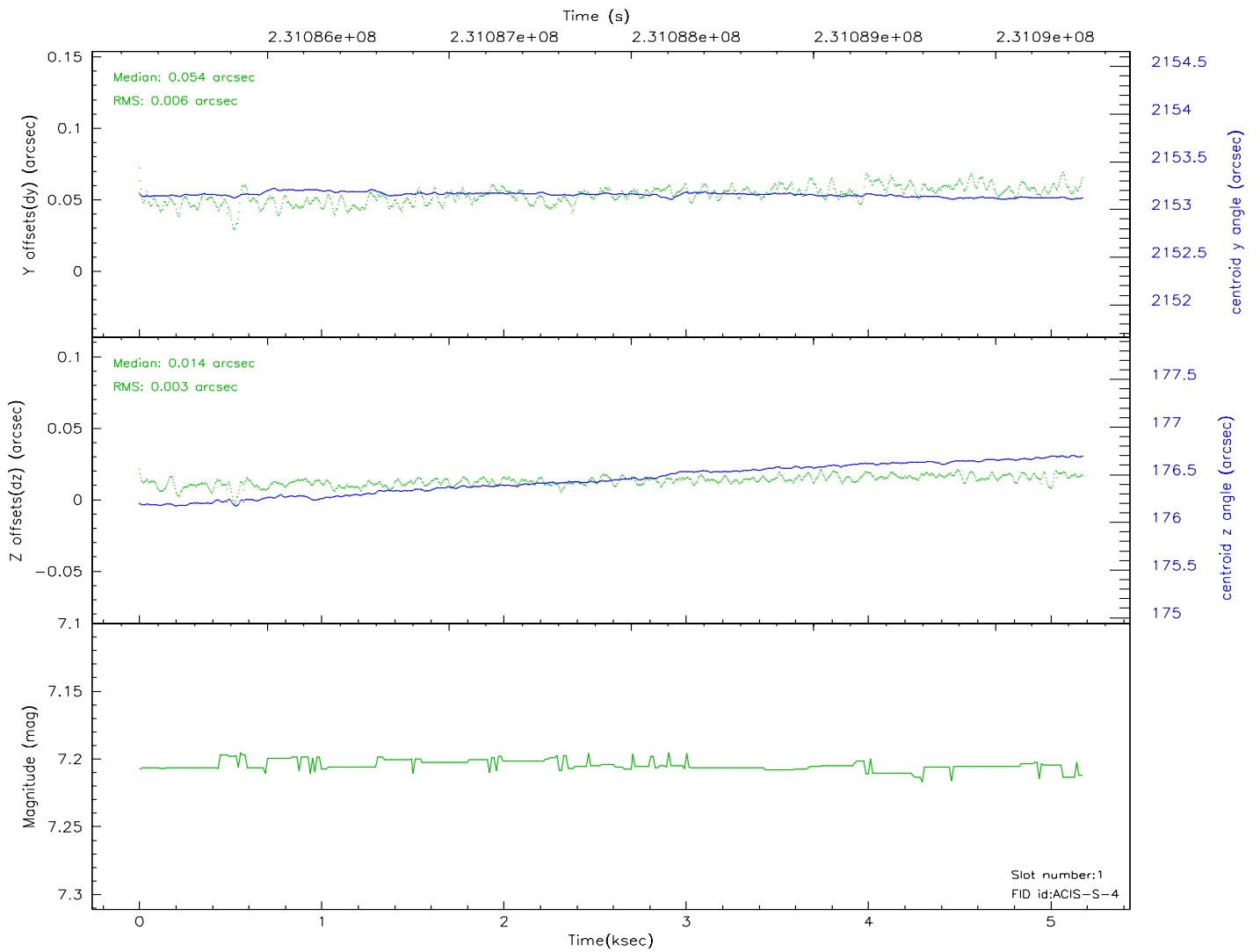
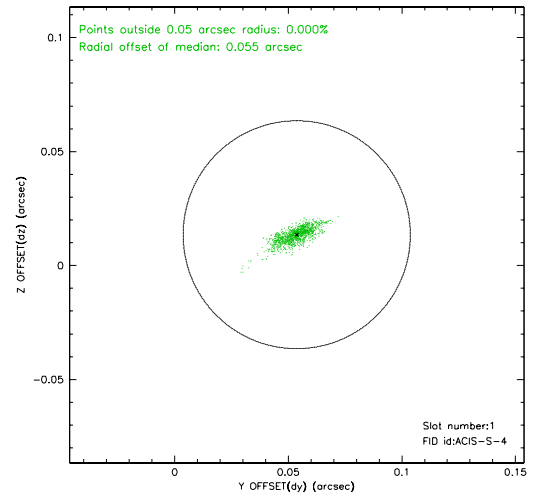
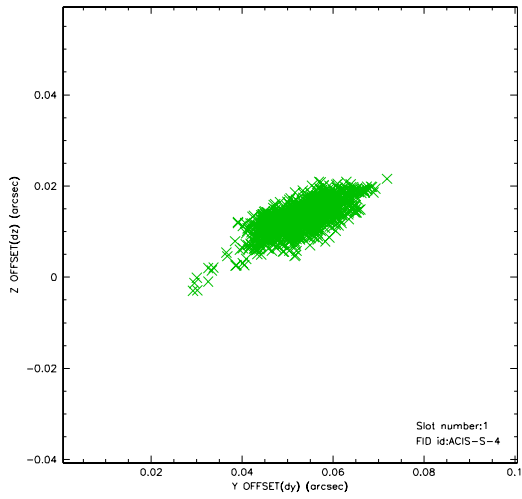


## 2.5 FID Slots

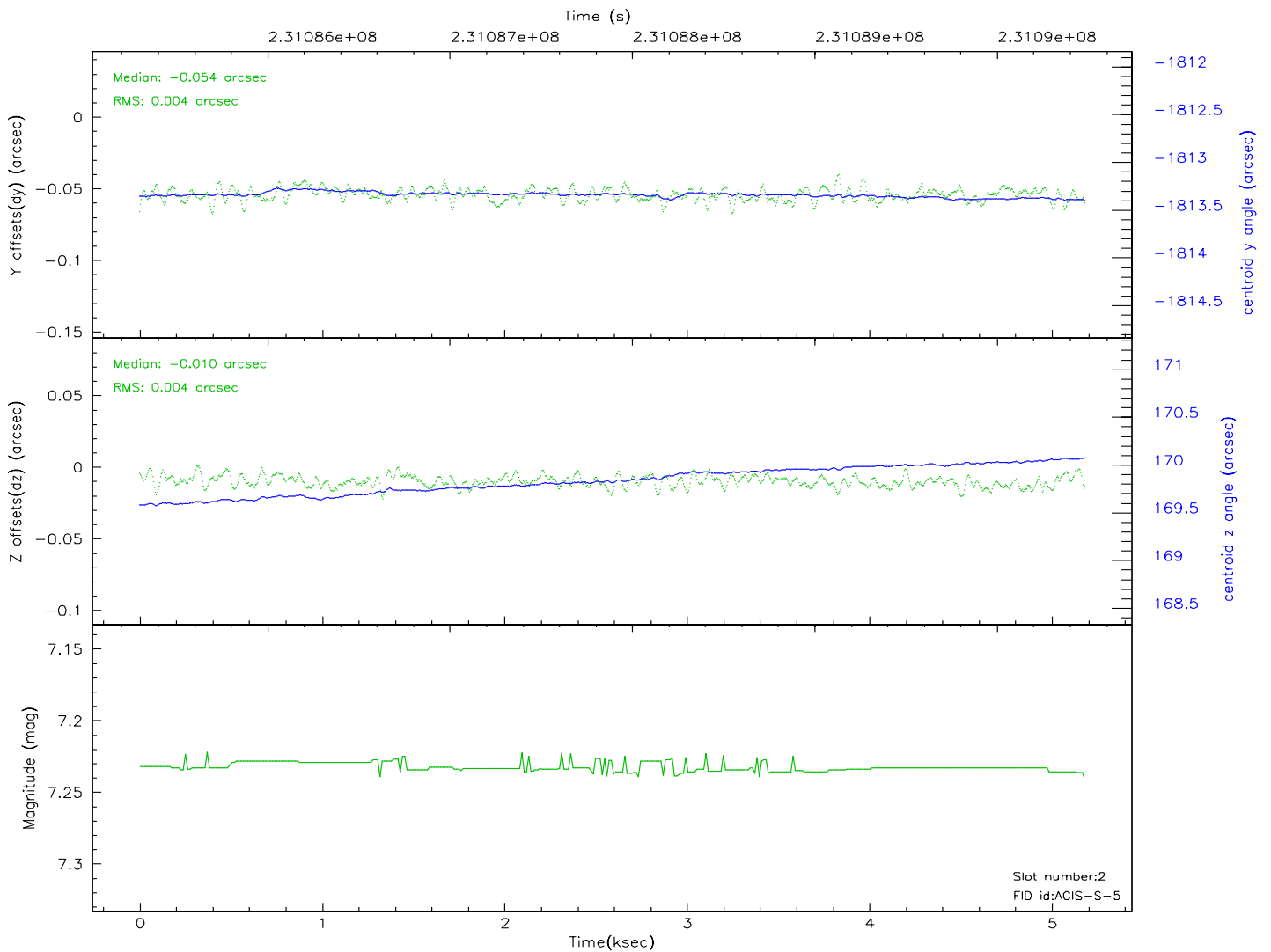
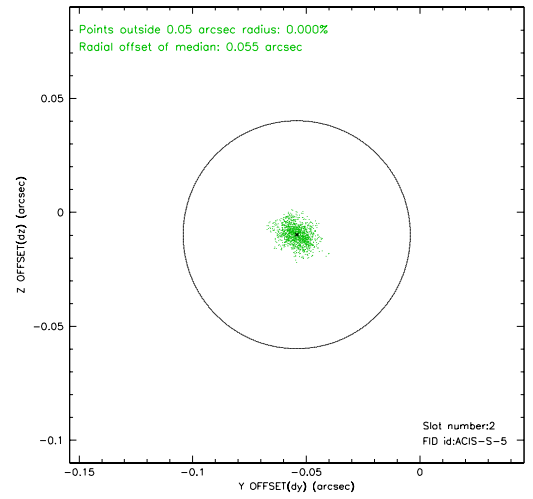
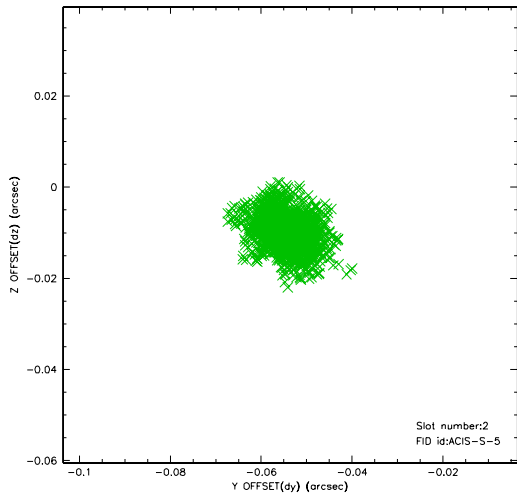
### 2.5.1 Slot 0



## 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)	2006.03.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.1812

## A.2 Comments

Window constraint met.