

# V&V Reference Report

## L2 ASCDS Version : 7.6.7.1

Observation 5372 - L2 Version 002  
Chandra X-Ray Center

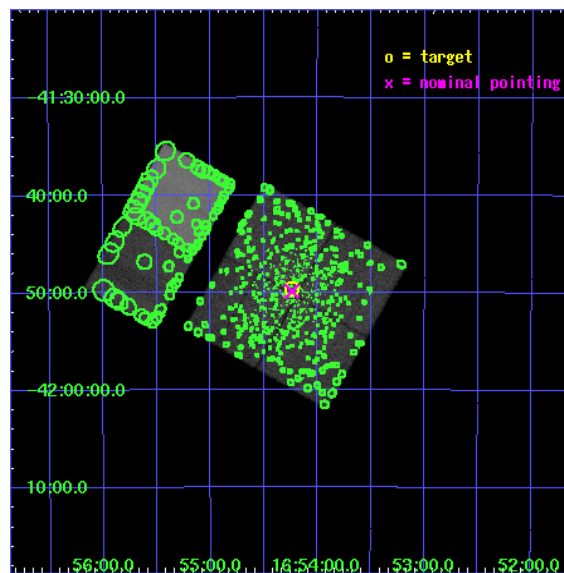
L2 Processing Date : Mar 12 2006

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# 1 Front

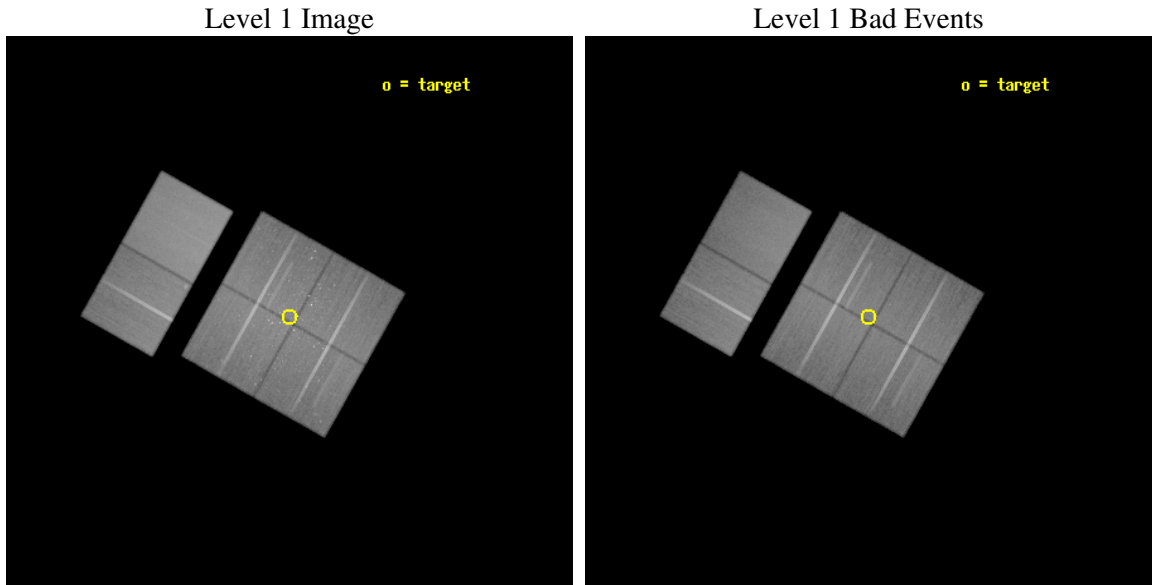
seq_num	200307
obs_id	5372
title	Star formation in the young star cluster NGC 6231
observer	Dr. Steven Murray
object	NGC 6231
dtcycle	0
cycle	P
ra_targ	253.559167
dec_targ	-41.826806
ra_nom	253.55986347899
dec_nom	-41.831405891458
roll_nom	299.42327349813
revision	2
ontime	77164.594851077
livetime	76187.490288131
ontime0	77177.558722198
ontime1	77180.799712479
ontime2	77180.799712479
ontime3	77164.594851077
ontime6	77180.799712479
ontime7	77180.799712479
l2events	713060



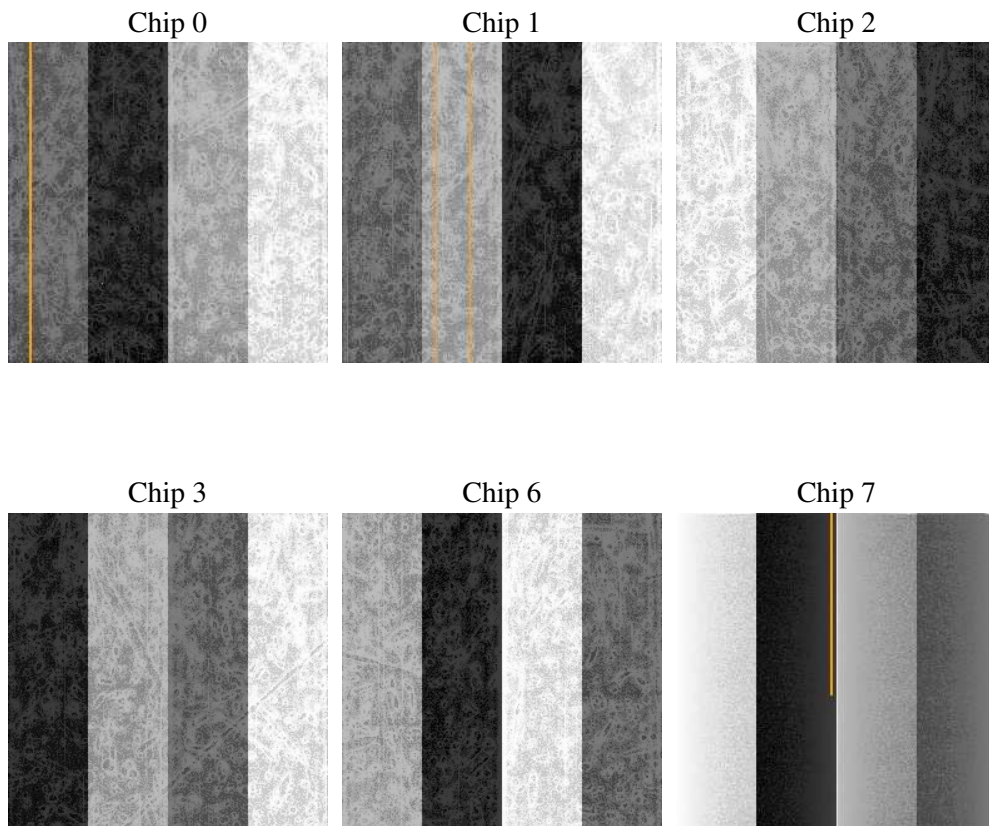
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0
ascdsver	7.6.7.1
caldbver	3.2.1
date	2006-03-12T03:26:18
revision	2

sched_exp_time	77000.000000
ontime	77317.611015528
ontime0	77330.57488665
ontime1	77333.815876931
ontime2	77333.815876931
ontime3	77317.611015528
ontime6	77333.815876931
ontime7	77333.815876931
l1events	3877645

### 2.1.4 Events

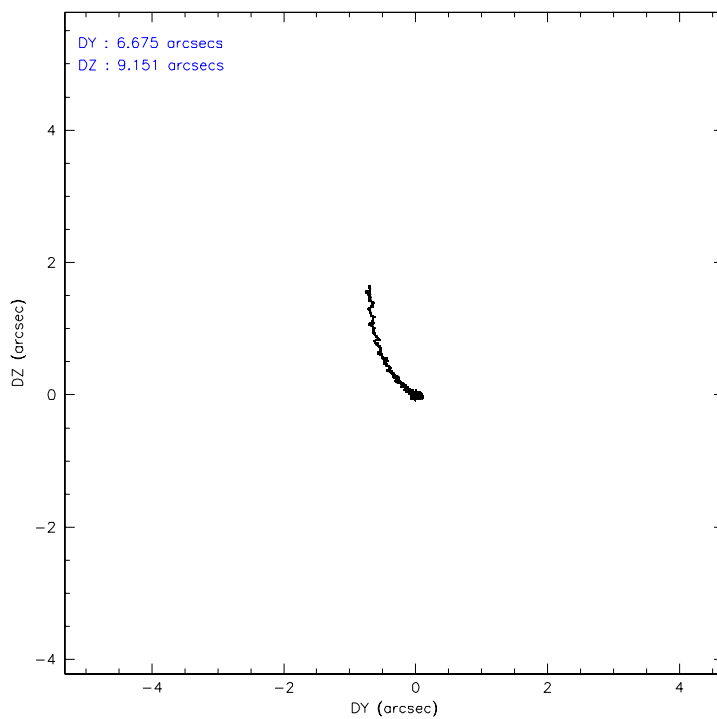
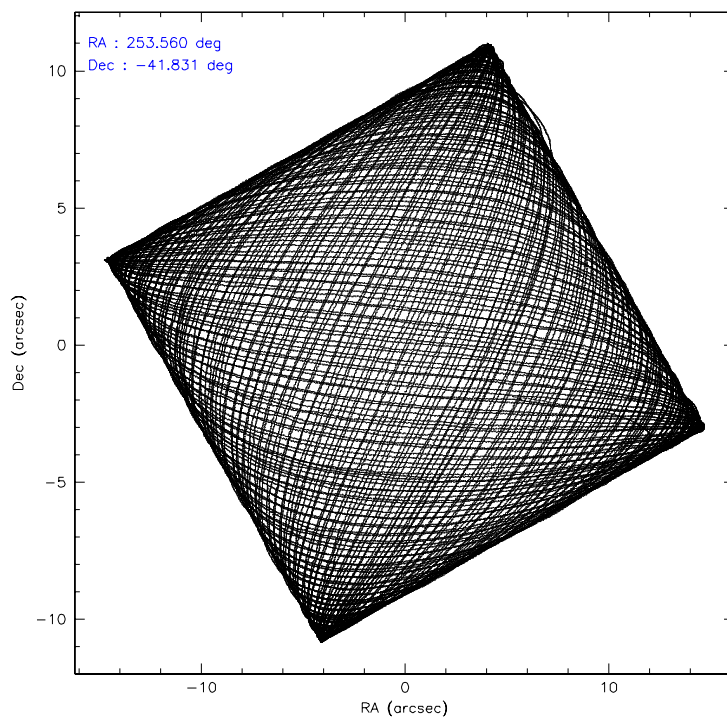
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	581645	582381	631037	621678	631487	829417
rejected events	489090	487716	536088	520913	556120	513466
rejected %	84%	83%	84%	83%	88%	61%

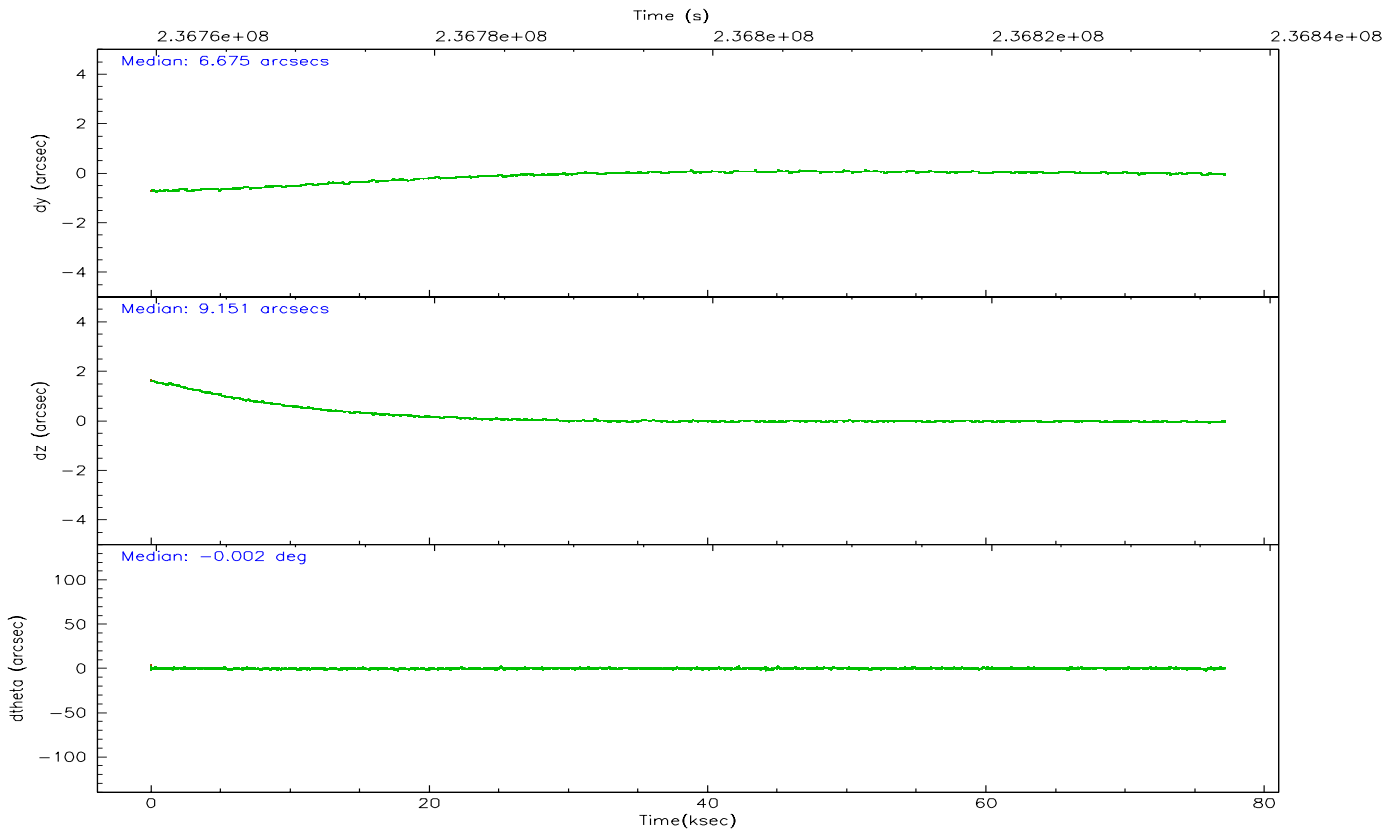
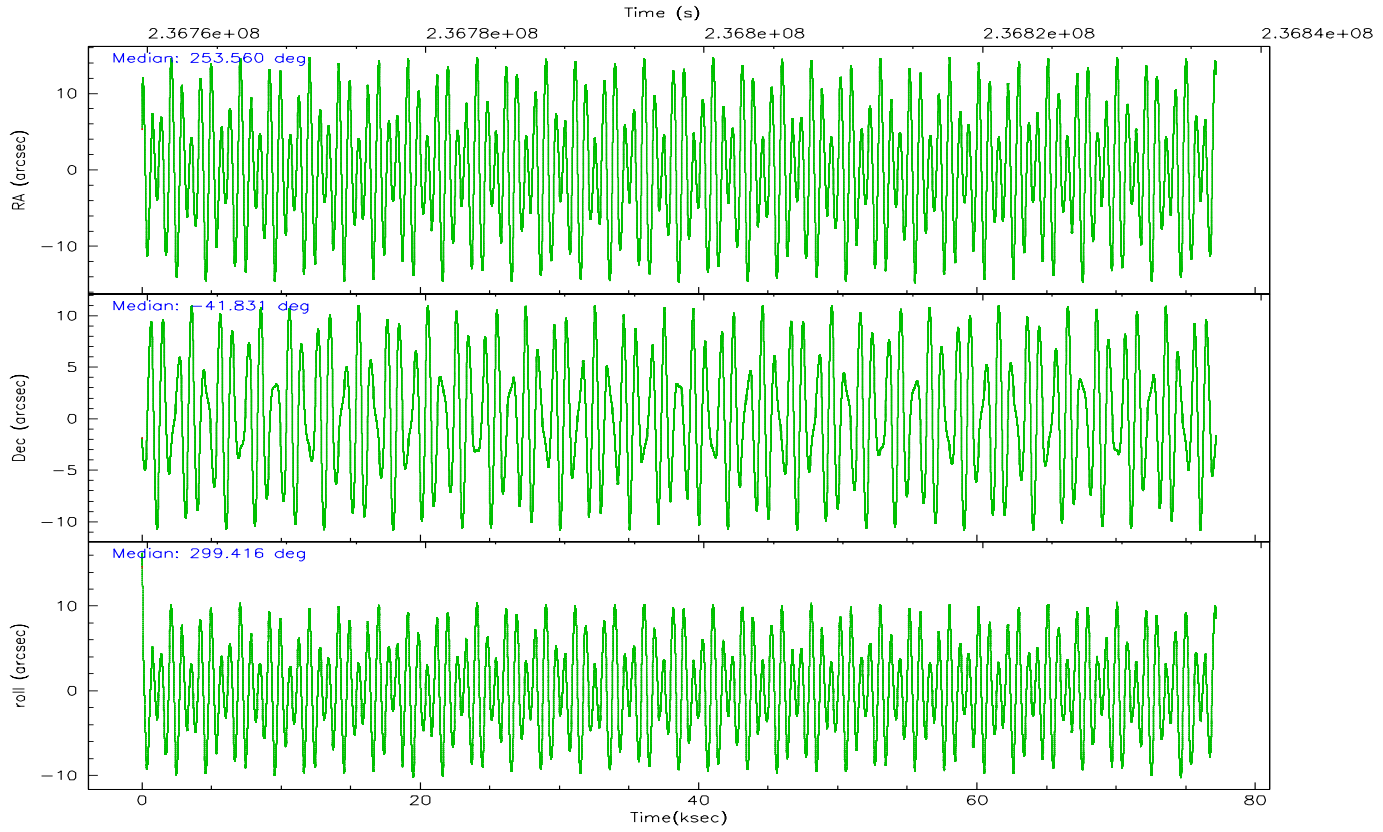
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	47342	45593	51875	55756	30679	17879
	8%	7%	8%	8%	4%	2%
grade 1 events	444	412	471	722	366	540
	0%	0%	0%	0%	0%	0%
grade 2 events	17408	18387	16533	16523	16000	79190
	2%	3%	2%	2%	2%	9%
grade 3 events	7725	7874	7335	7864	6933	15775
	1%	1%	1%	1%	1%	1%
grade 4 events	7177	7967	7321	7776	7028	15131
	1%	1%	1%	1%	1%	1%
grade 5 events	25040	26205	23770	27743	29305	54097
	4%	4%	3%	4%	4%	6%
grade 6 events	13093	15016	12072	13031	14890	188609
	2%	2%	1%	2%	2%	22%
grade 7 events	463416	460927	511660	492263	526286	458196
	79%	79%	81%	79%	83%	55%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-012367	ACIS-012367	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	NONE	NONE
Pointing RA	253.528160	253.5598634789856	Alternating exposures requested	N	N
Pointing Dec	-41.817582	-41.83140589145832	Primary exposure time	0.000000	3.2
Pointing Roll	299.193440	299.4232734981341			
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	236759798.184000	236758650.7809			
Observation start date	2005-07-03T06:35:34	2005-07-03T06:17:30			
Observation end time	236836798.184000	236837539.90951			
Observation end date	2005-07-04T03:58:54	2005-07-04T04:12:19			
Read mode	TIMED	TIMED			

## 2.3 Aspect



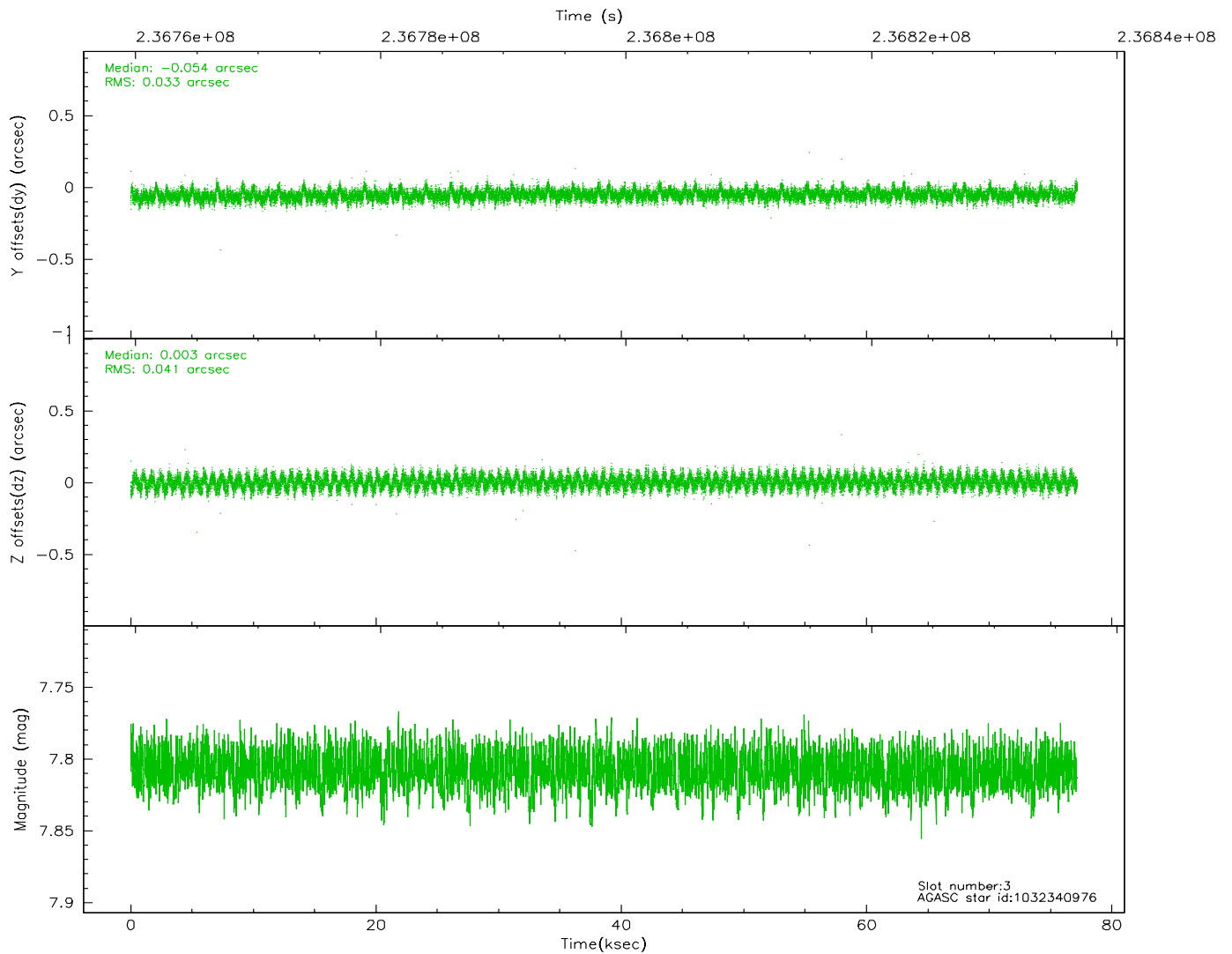
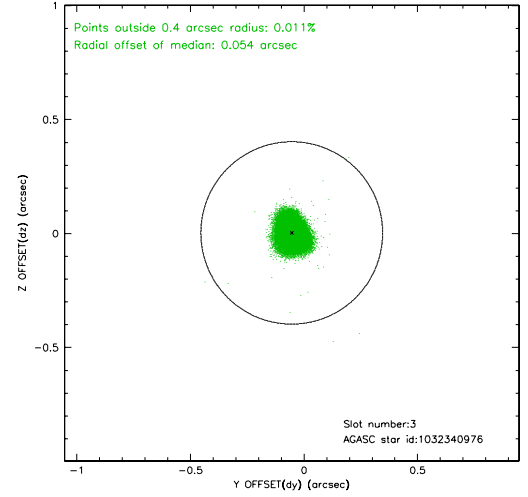
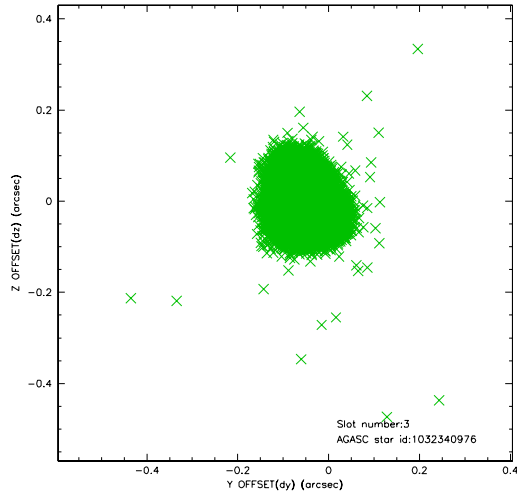


### Slot Statistics

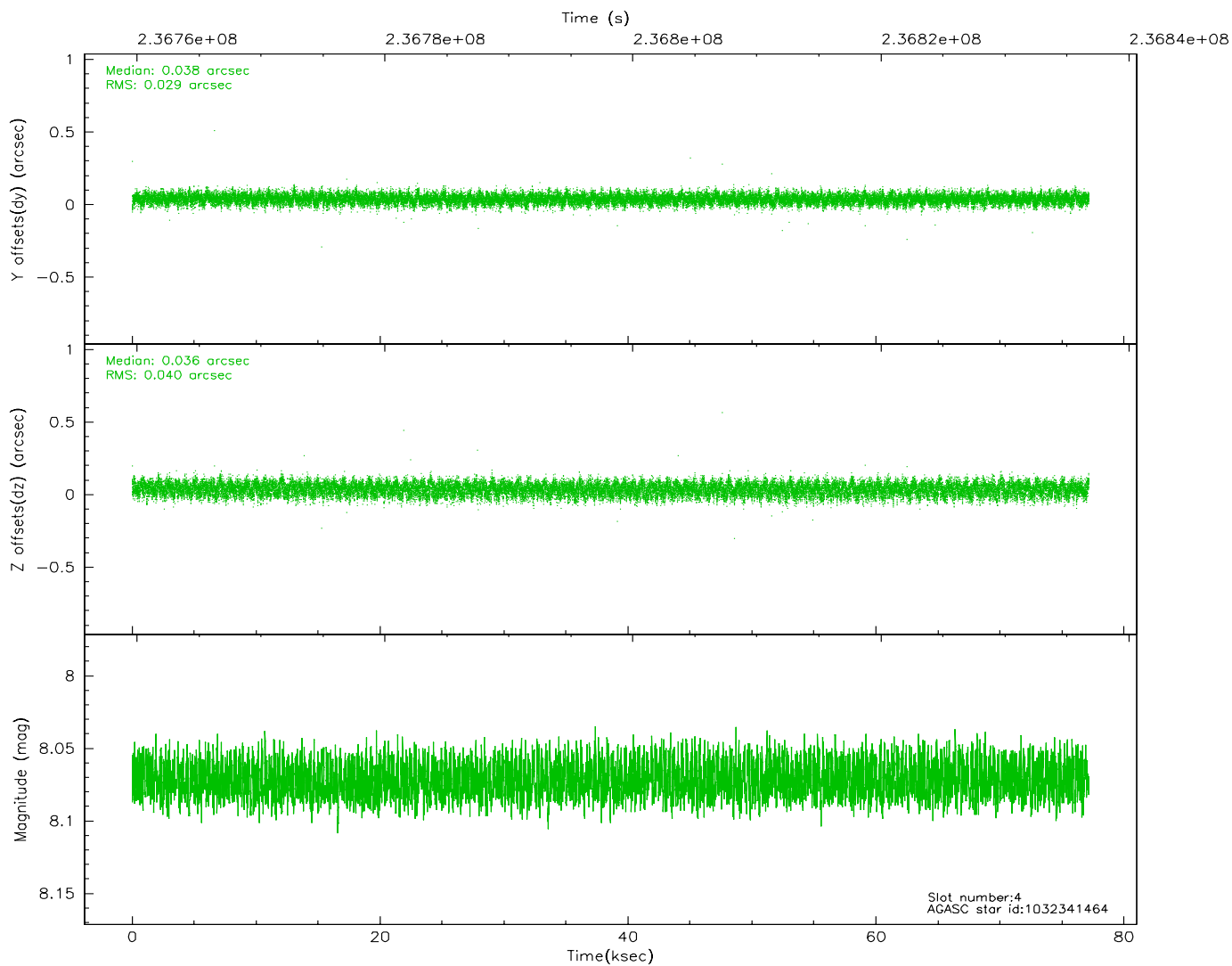
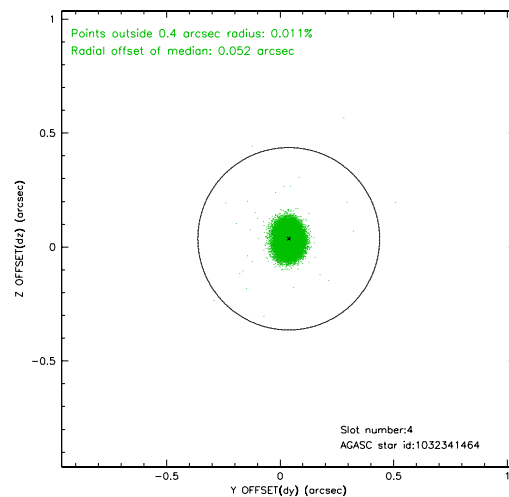
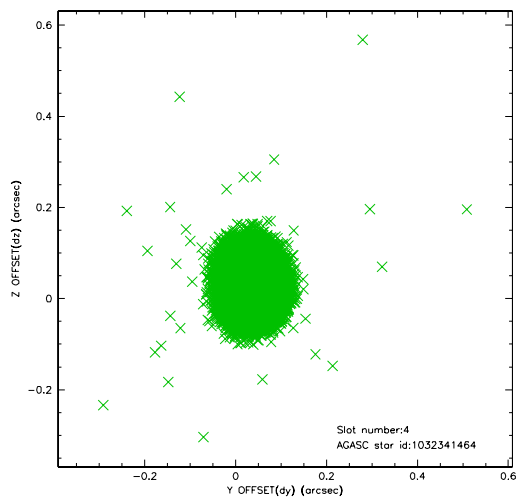
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.25	18828	-0.035	0.069	0.014	0.046	0.000000	0.000000	933.11	-832.72
1	FID	ACIS-I-4	7.19	18826	0.102	-0.006	0.019	0.062	0.000000	0.000000	2153.25	1067.04
2	FID	ACIS-I-5	7.22	18827	-0.162	0.009	0.018	0.045	0.000000	0.000000	-1815.10	1064.85
3	GUIDE	1032340976	7.81	37646	-0.054	0.003	0.056	0.090	254.202894	-41.913283	1188.63	1406.81
4	GUIDE	1032341464	8.07	37634	0.038	0.036	0.053	0.083	252.786853	-41.567991	-1750.37	-1308.85
5	GUIDE	1032343488	6.96	37653	-0.043	-0.042	0.047	0.073	252.725884	-41.830381	-1000.35	-1906.05
6	GUIDE	1032344344	6.60	37655	0.070	-0.079	0.059	0.094	253.080192	-41.854515	-466.72	-1114.92
7	GUIDE	1031810224	8.10	37648	-0.024	0.078	0.084	0.138	253.873086	-40.978796	-2177.31	2290.30

## 2.4 Star Slots

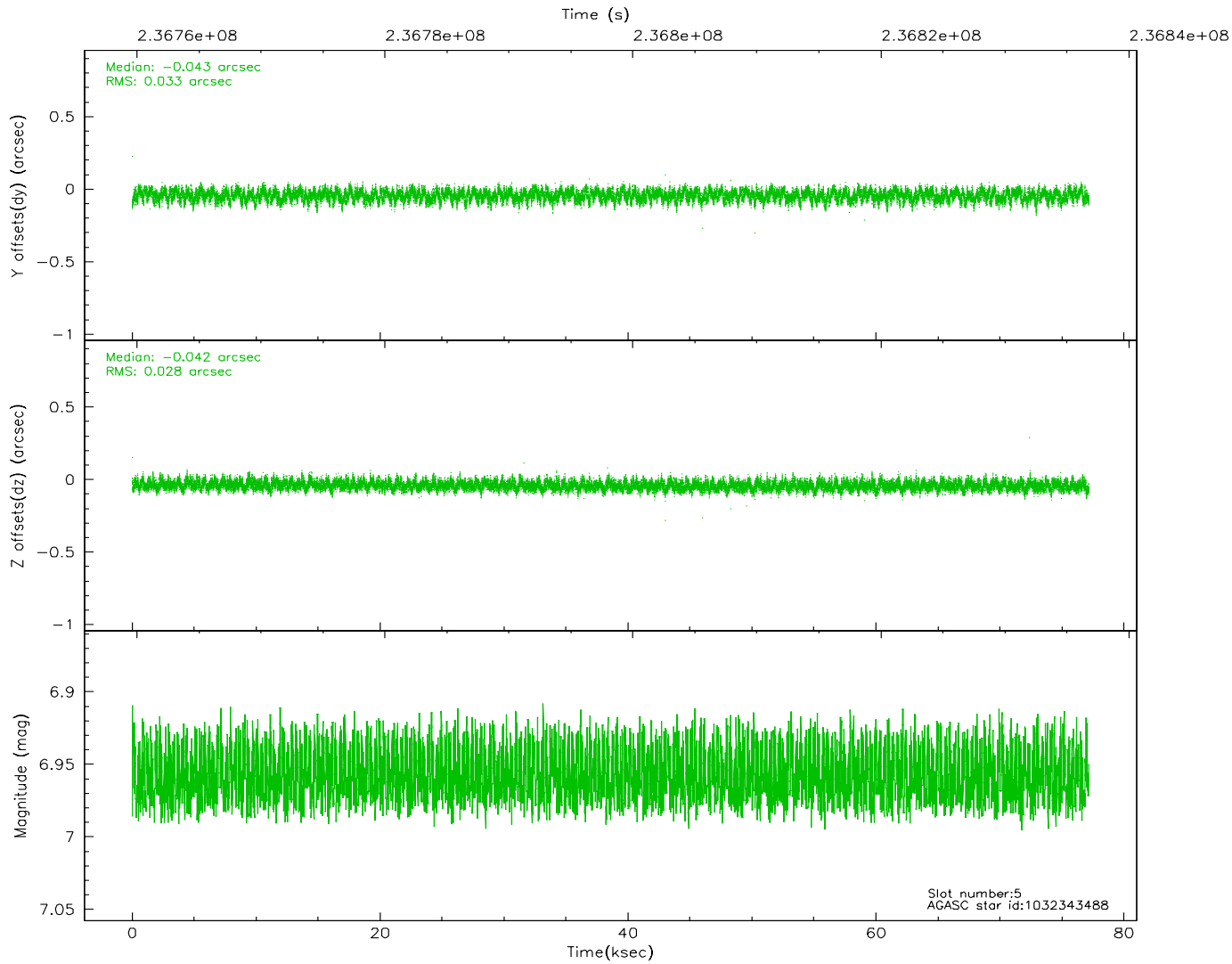
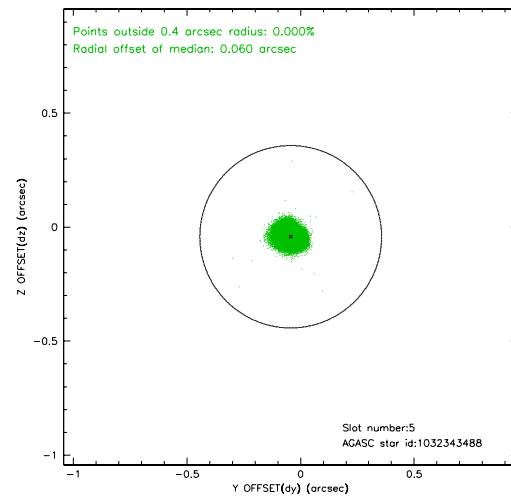
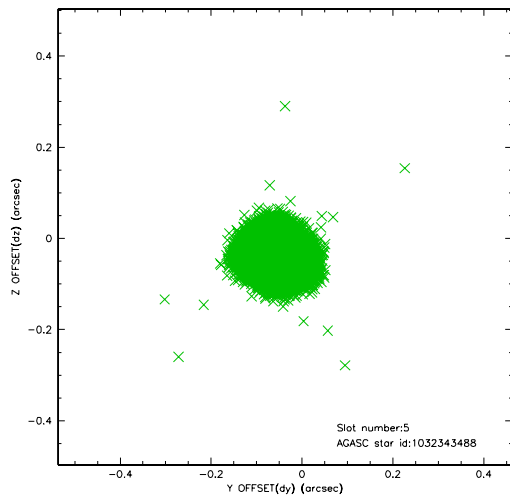
### 2.4.1 Slot 3



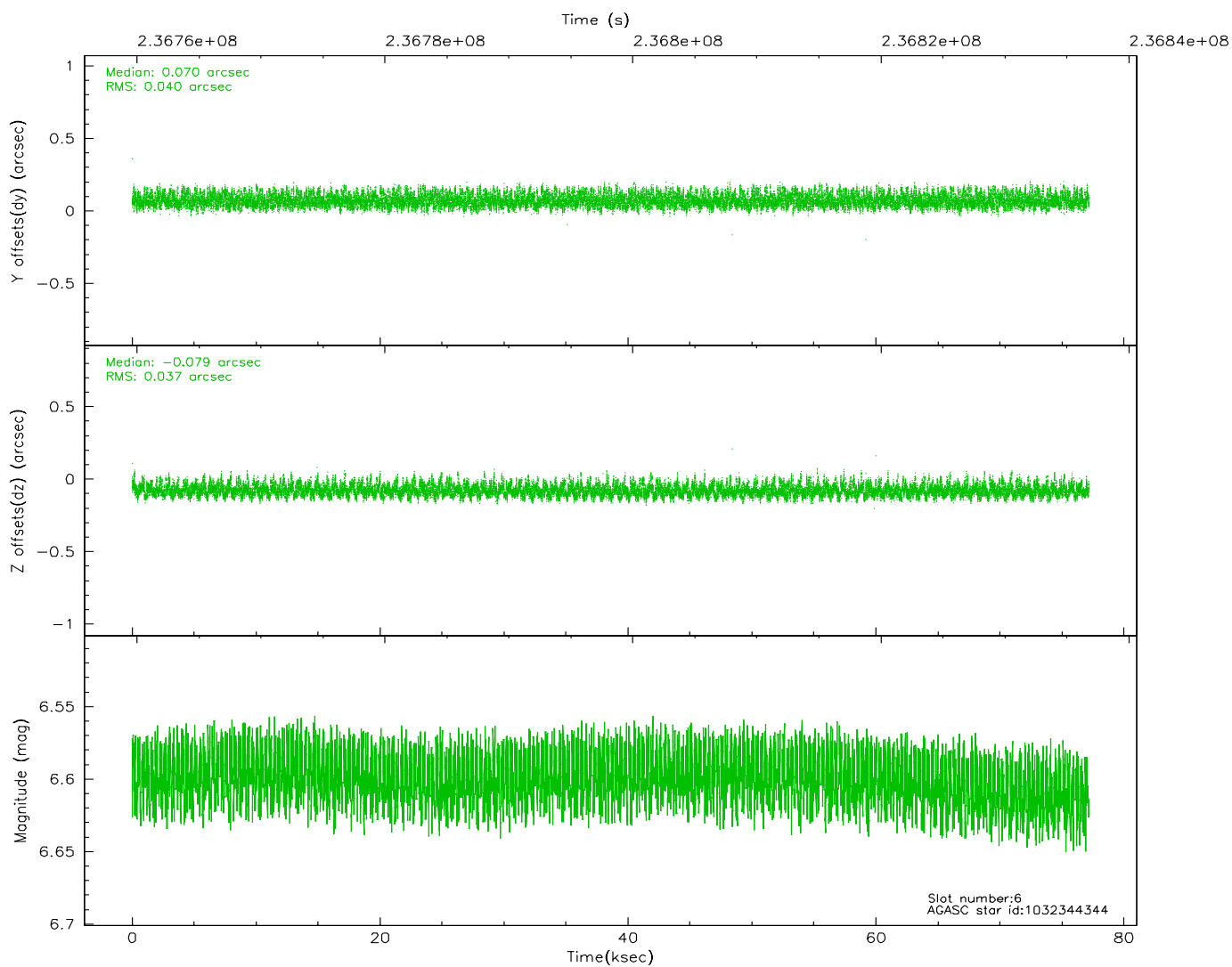
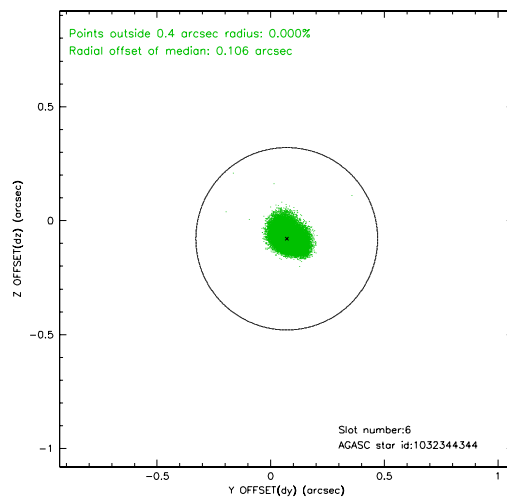
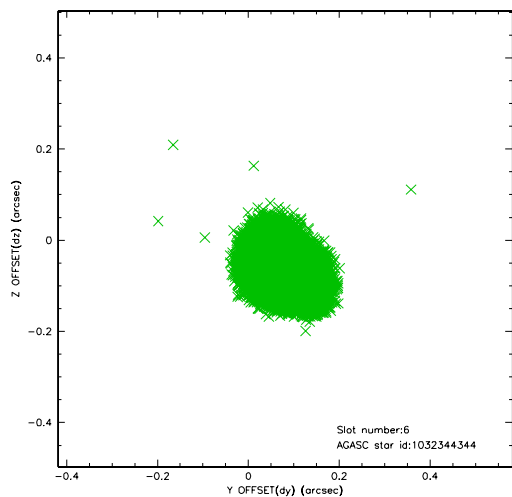
## 2.4.2 Slot 4



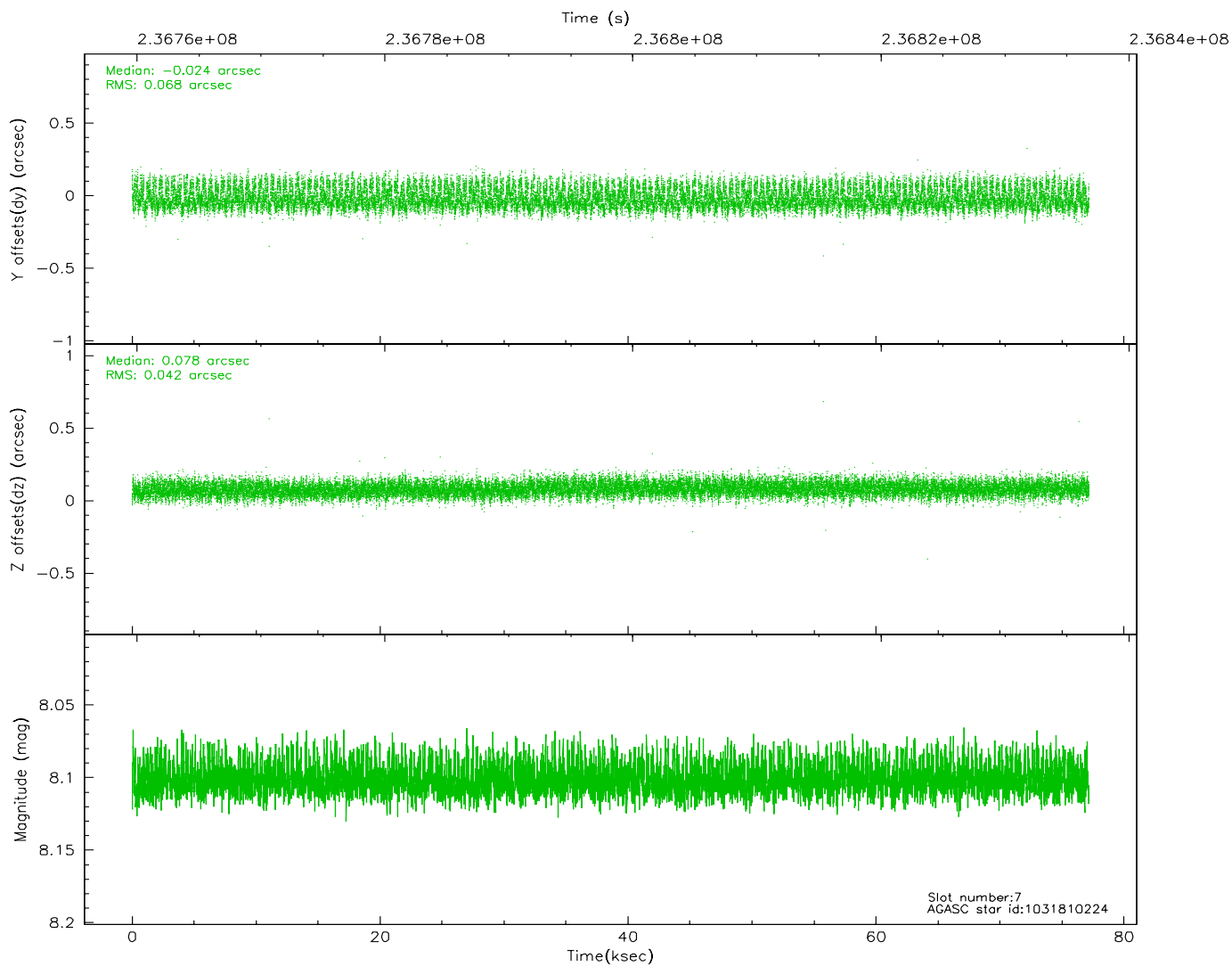
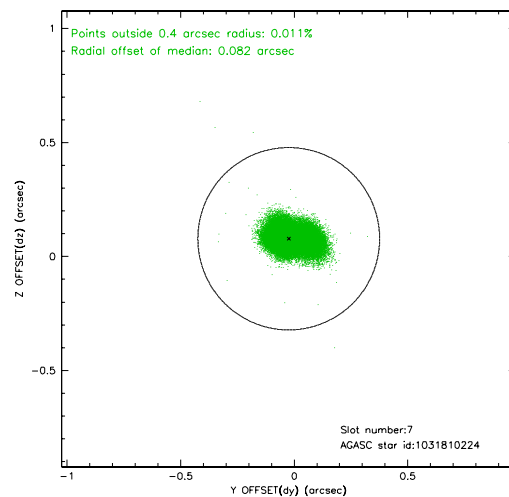
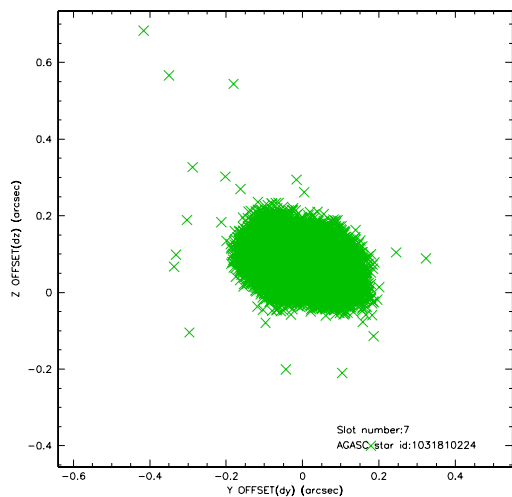
### 2.4.3 Slot 5



## 2.4.4 Slot 6

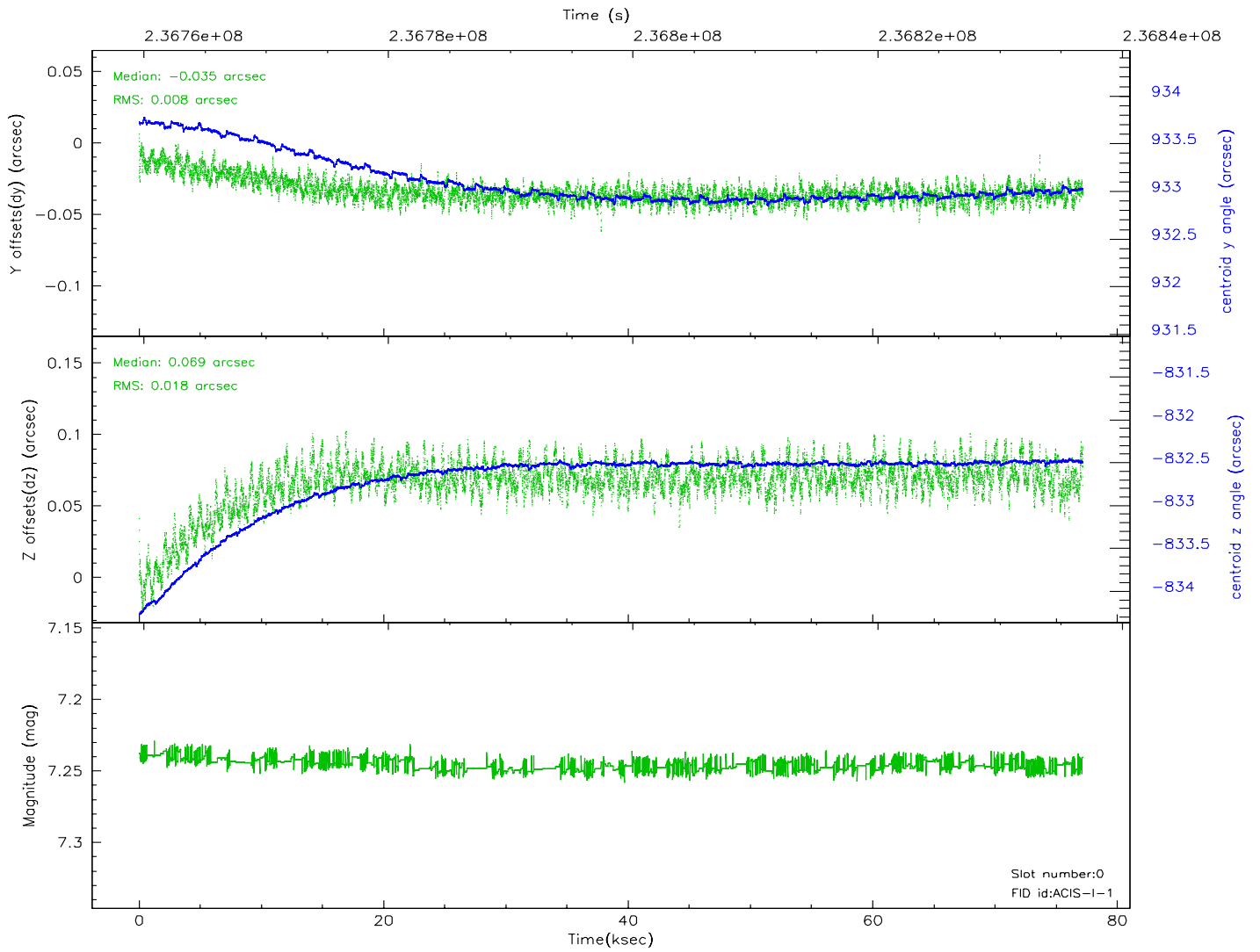
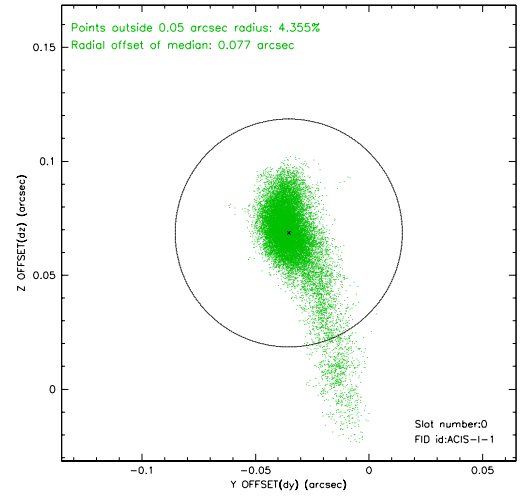
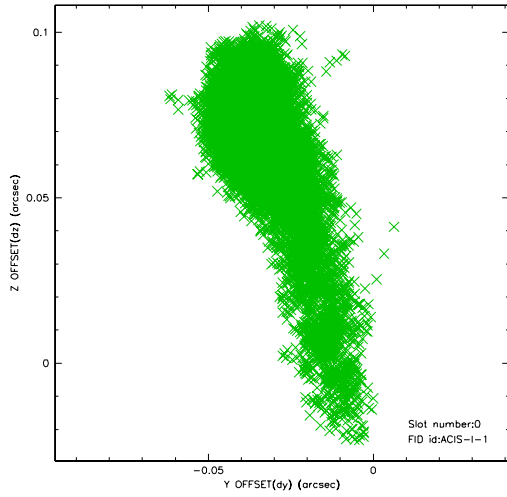


## 2.4.5 Slot 7

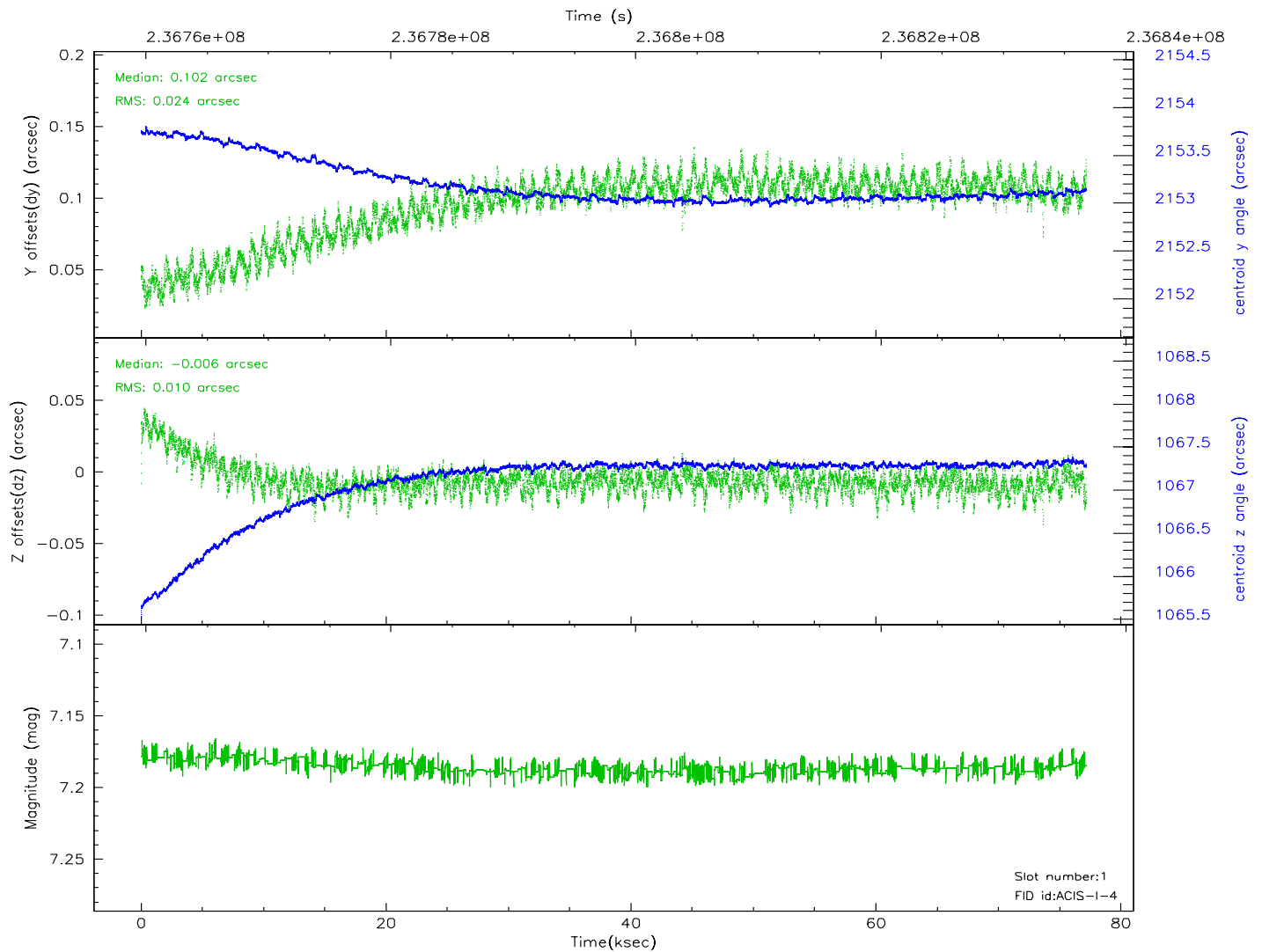
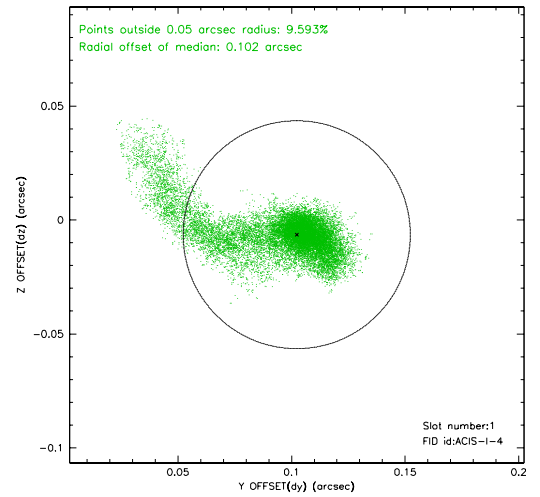
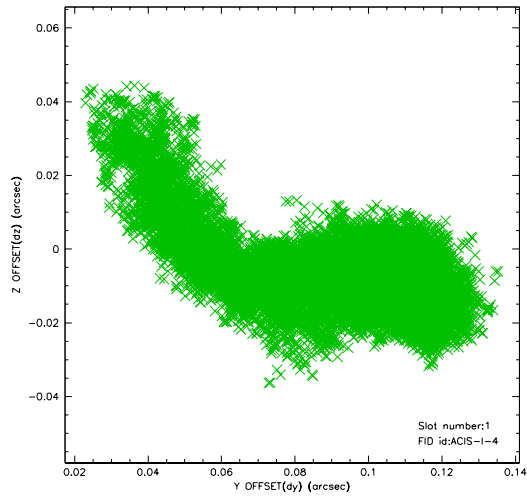


## 2.5 FID Slots

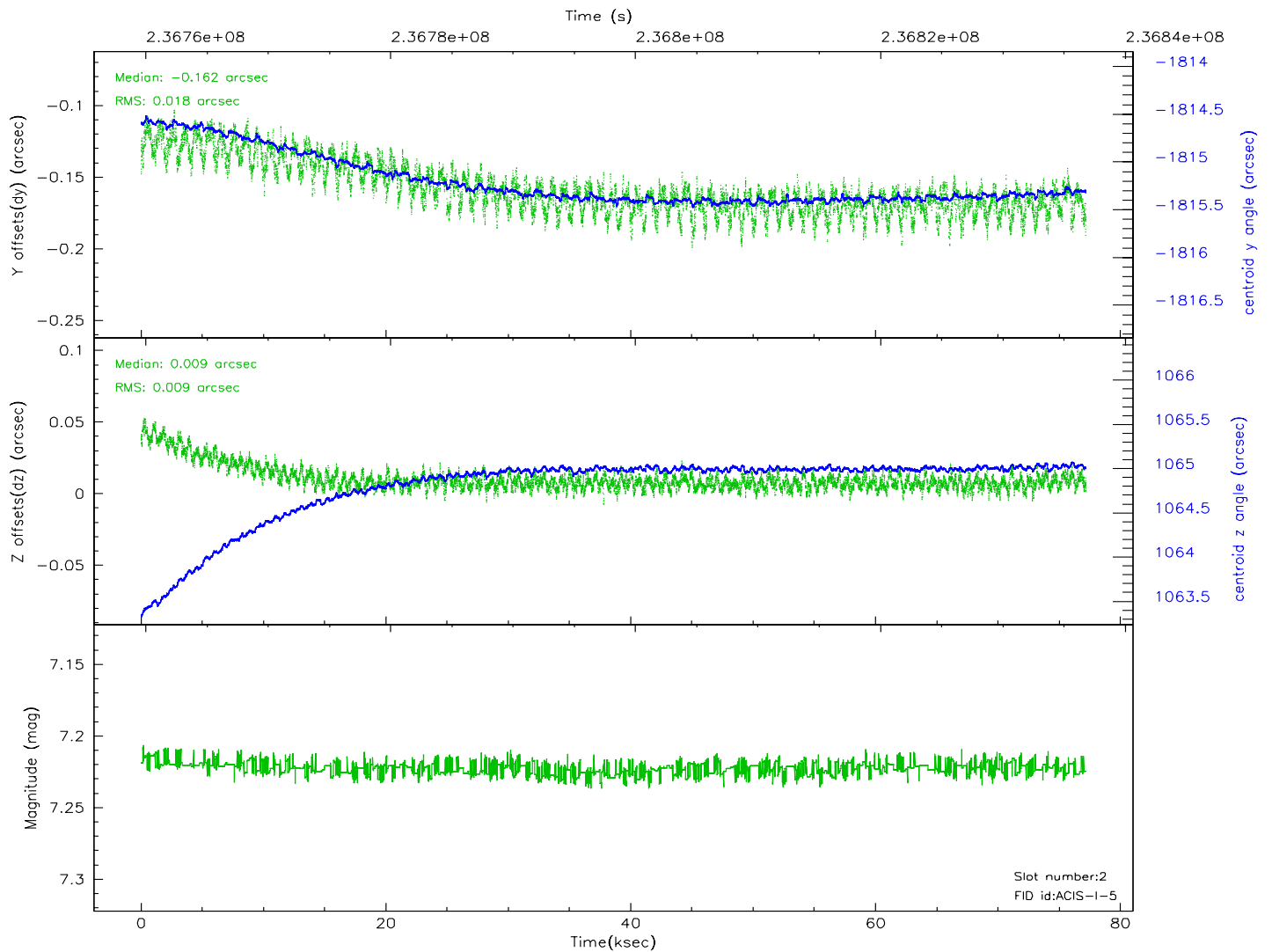
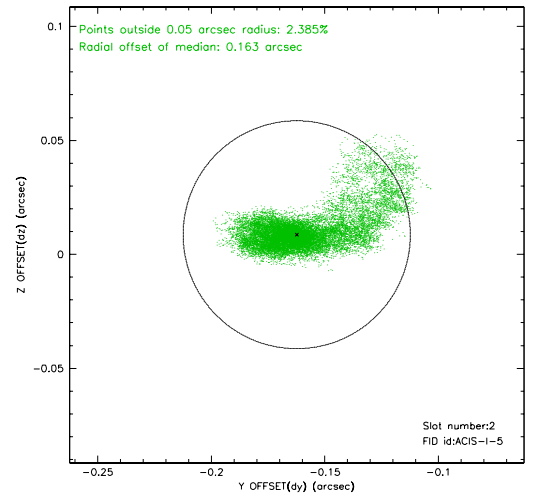
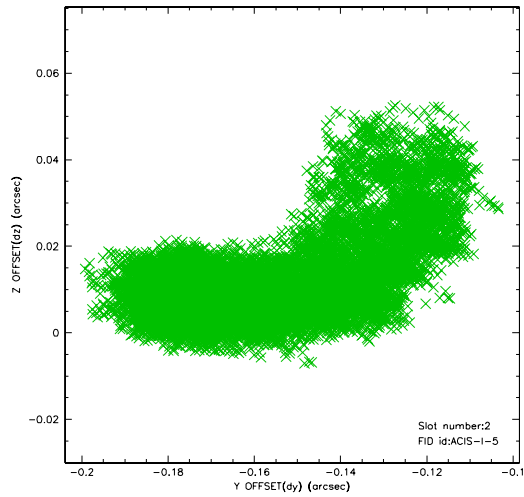
### 2.5.1 Slot 0



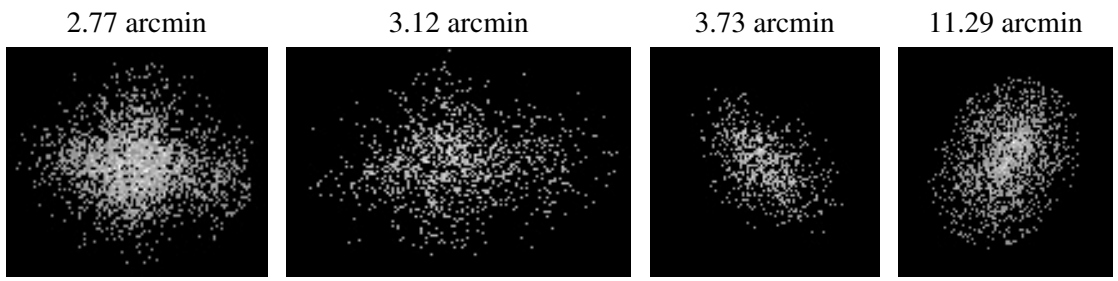
## 2.5.2 Slot 1



### 2.5.3 Slot 2



### 3 Point Sources



# A Summary

## A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2006.03.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	77.16459

## A.2 Comments