

# V&V Reference Report

## L2 ASCDS Version : 7.6.9

Observation 1576 - L2 Version 001  
Chandra X-Ray Center

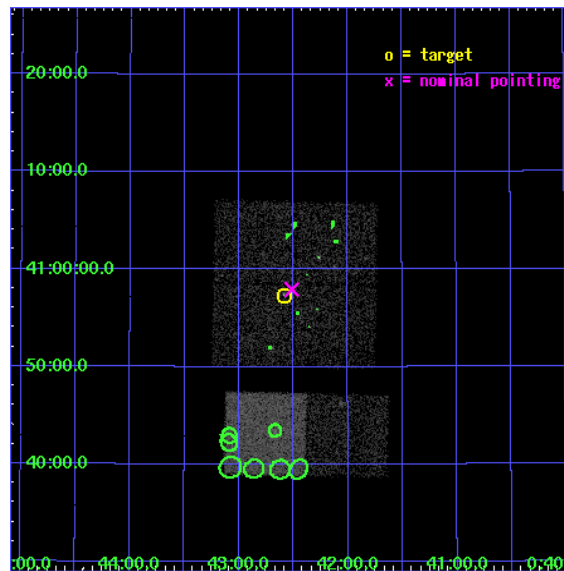
L2 Processing Date : Jan 10 2007

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# 1 Front

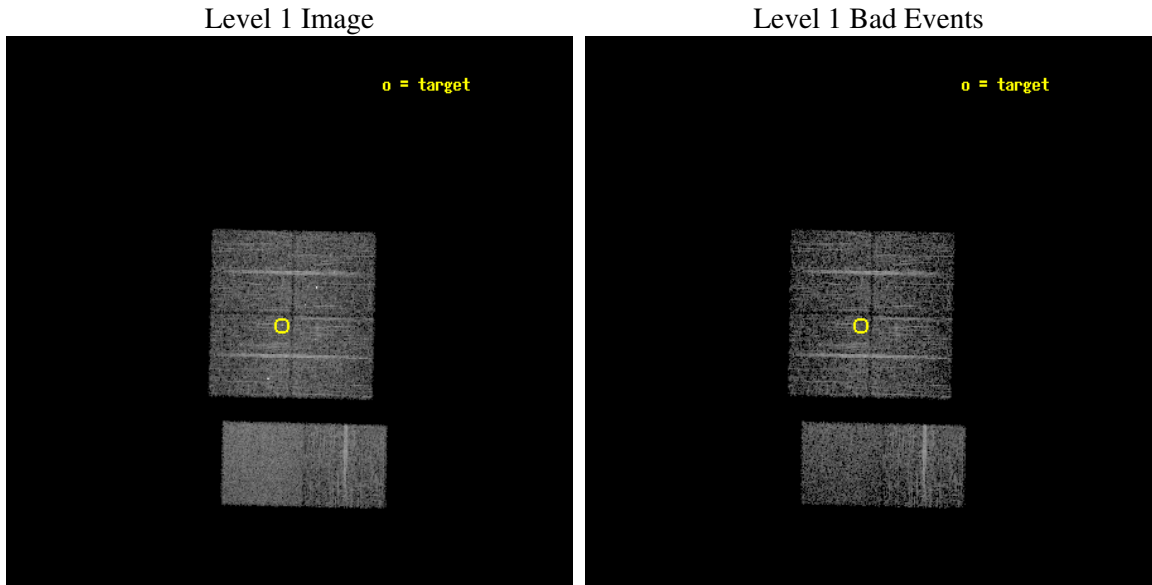
seq_num	600133
obs_id	1576
title	M31 NUCLEAR REGION
observer	Dr Stephen Murray
object	M31 NUCLEUS
dtcycle	0
cycle	P
ra_targ	10.645375
dec_targ	40.955836
ra_nom	10.628454780195
dec_nom	40.965739828737
roll_nom	181.24187516403
revision	3
ontime	4950.4000046104
livedtime	4887.715058979
ontime0	4950.4000046104
ontime1	4950.4000046104
ontime2	4950.4000046104
ontime3	4950.4000046104
ontime6	4950.4000046104
ontime7	4950.4000046104
l2events	33579



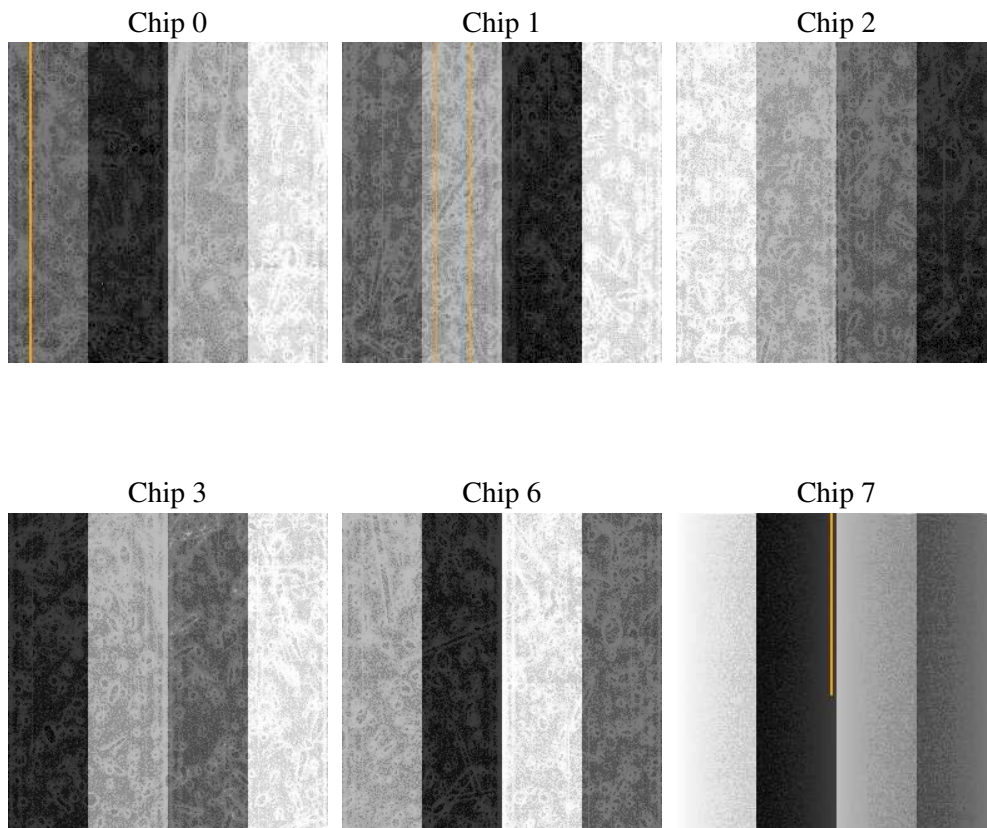
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1
ascdsver	7.6.10
caldbver	3.3.0
date	2007-01-10T16:52:44
revision	3

sched_exp_time	5000.000000
ontime	4950.4000046104
ontime0	4950.4000046104
ontime1	4950.4000046104
ontime2	4950.4000046104
ontime3	4950.4000046104
ontime6	4950.4000046104
ontime7	4950.4000046104
l1events	187289

### 2.1.4 Events

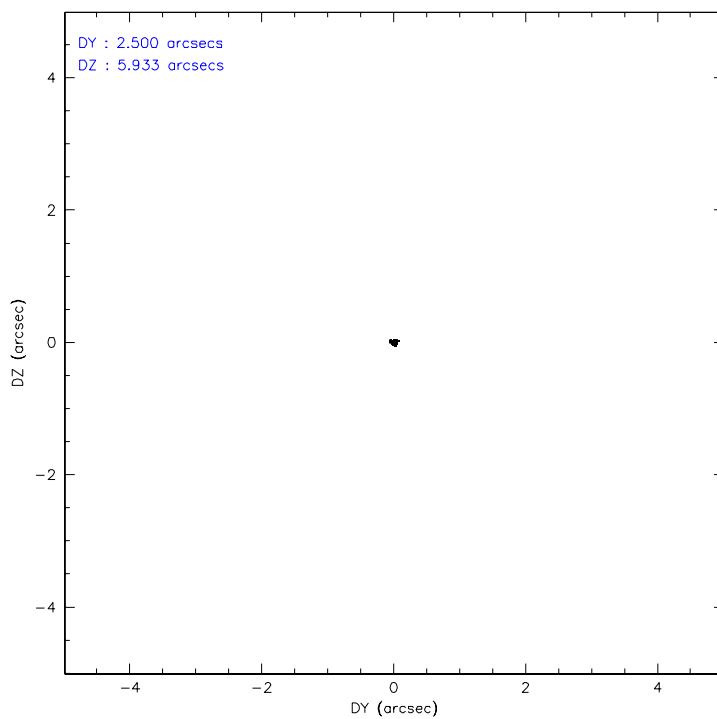
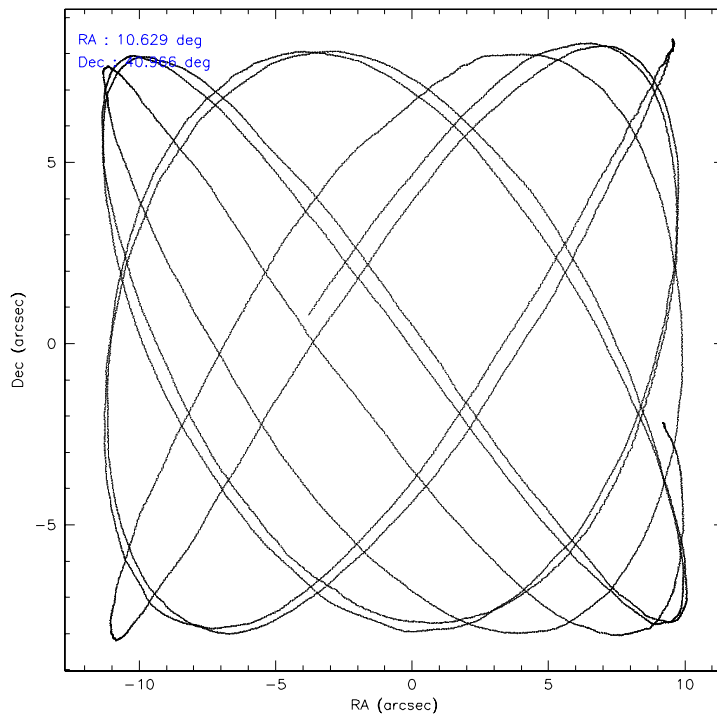
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	28498	27650	30605	29954	32576	38006
rejected events	23503	23594	26737	25693	28732	22014
rejected %	82%	85%	87%	85%	88%	57%

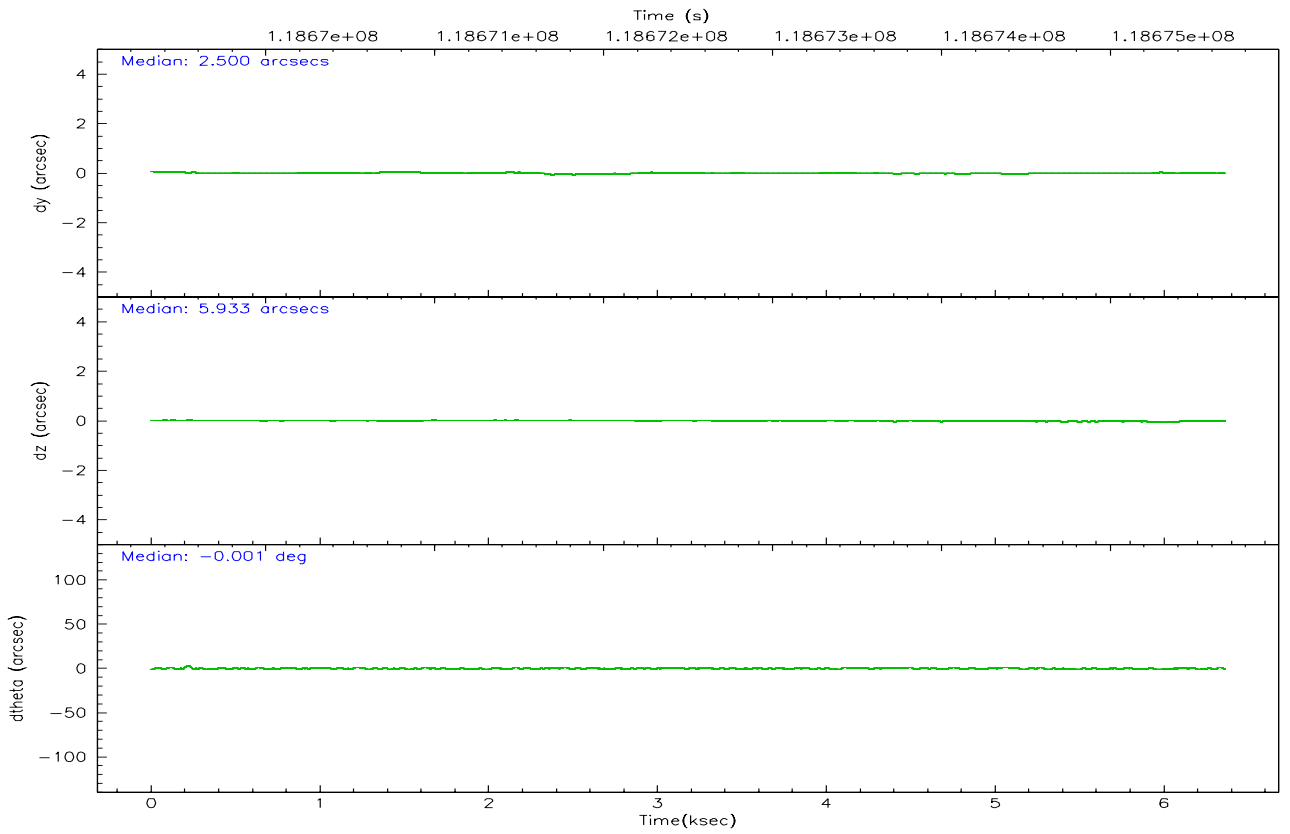
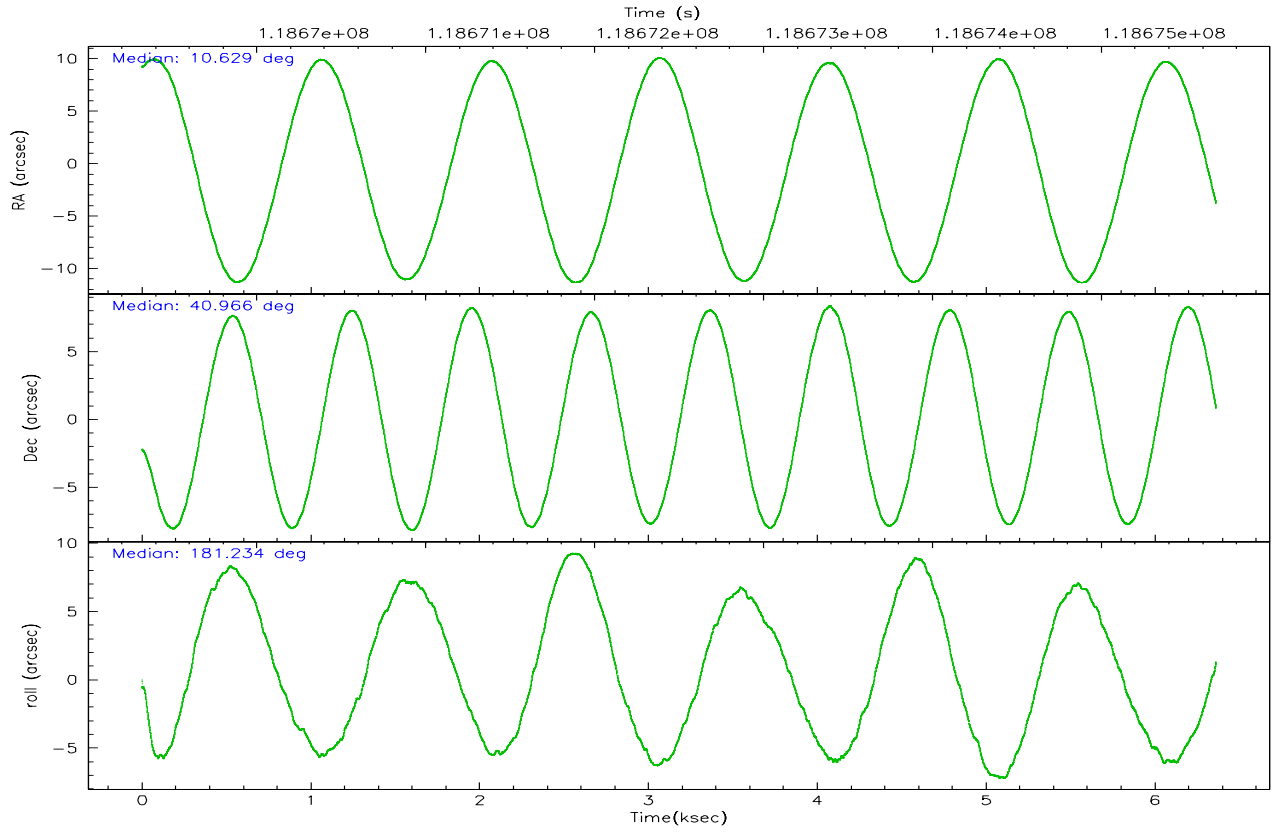
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	2517	1693	1630	2105	1568	1609
	8%	6%	5%	7%	4%	4%
grade 1 events	43	13	19	20	16	32
	0%	0%	0%	0%	0%	0%
grade 2 events	997	856	846	847	818	3131
	3%	3%	2%	2%	2%	8%
grade 3 events	390	384	325	341	348	1440
	1%	1%	1%	1%	1%	3%
grade 4 events	390	373	369	359	394	1514
	1%	1%	1%	1%	1%	3%
grade 5 events	1065	1130	986	1124	1278	3658
	3%	4%	3%	3%	3%	9%
grade 6 events	704	752	705	612	724	8323
	2%	2%	2%	2%	2%	21%
grade 7 events	22392	22449	25725	24546	27430	18299
	78%	81%	84%	81%	84%	48%

## 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	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
Pointing RA	10.659378	10.62845478019501	Subarray requested	NONE	NONE
Pointing Dec	40.980032	40.96573982873667	Alternating exposures requested	N	N
Pointing Roll	181.012900	181.2418751640253	Primary exposure time	0.000000	3.2
Window start time	118281664.184000	118281664.184000			
Window stop time	119491264.184000	119491264.184000			
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	118670684.184000	118669138.33509			
Observation start date	2001-10-05T12:03:40	2001-10-05T11:38:58			
Observation end time	118675684.184000	118676959.5979			
Observation end date	2001-10-05T13:27:00	2001-10-05T13:49:19			
Read mode	TIMED	TIMED			

## 2.3 Aspect



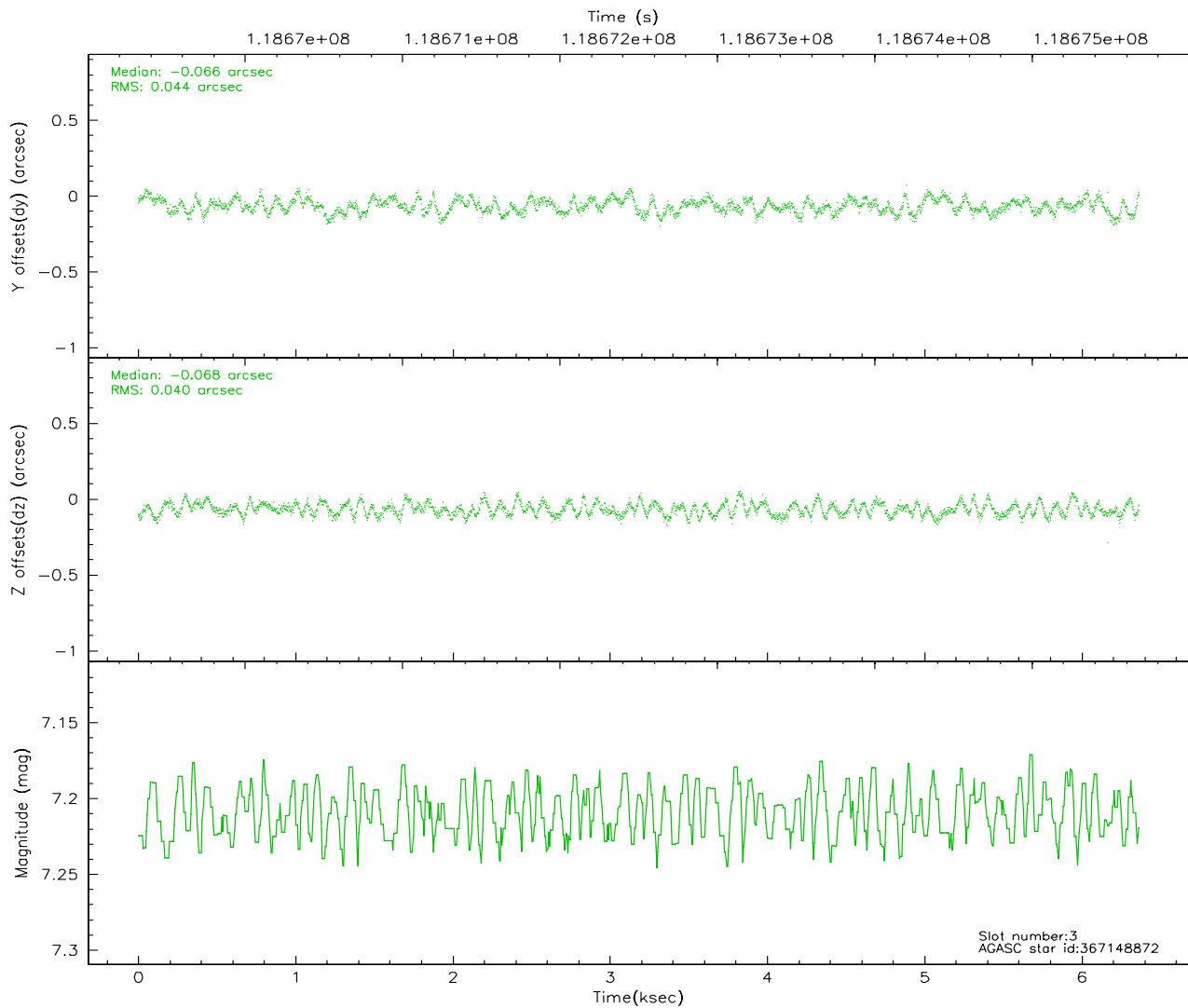
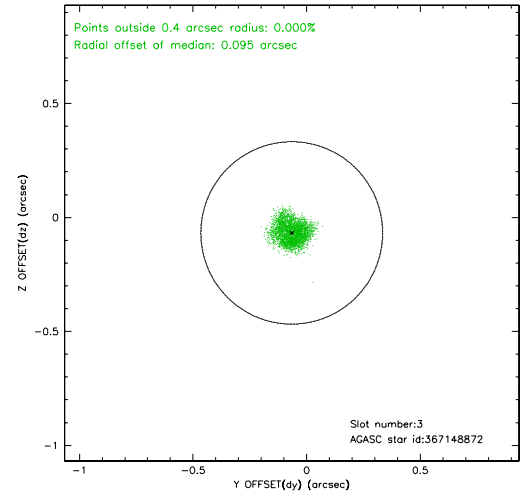
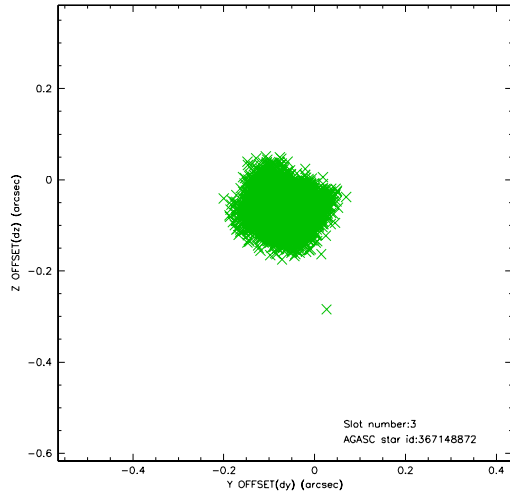


### Slot Statistics

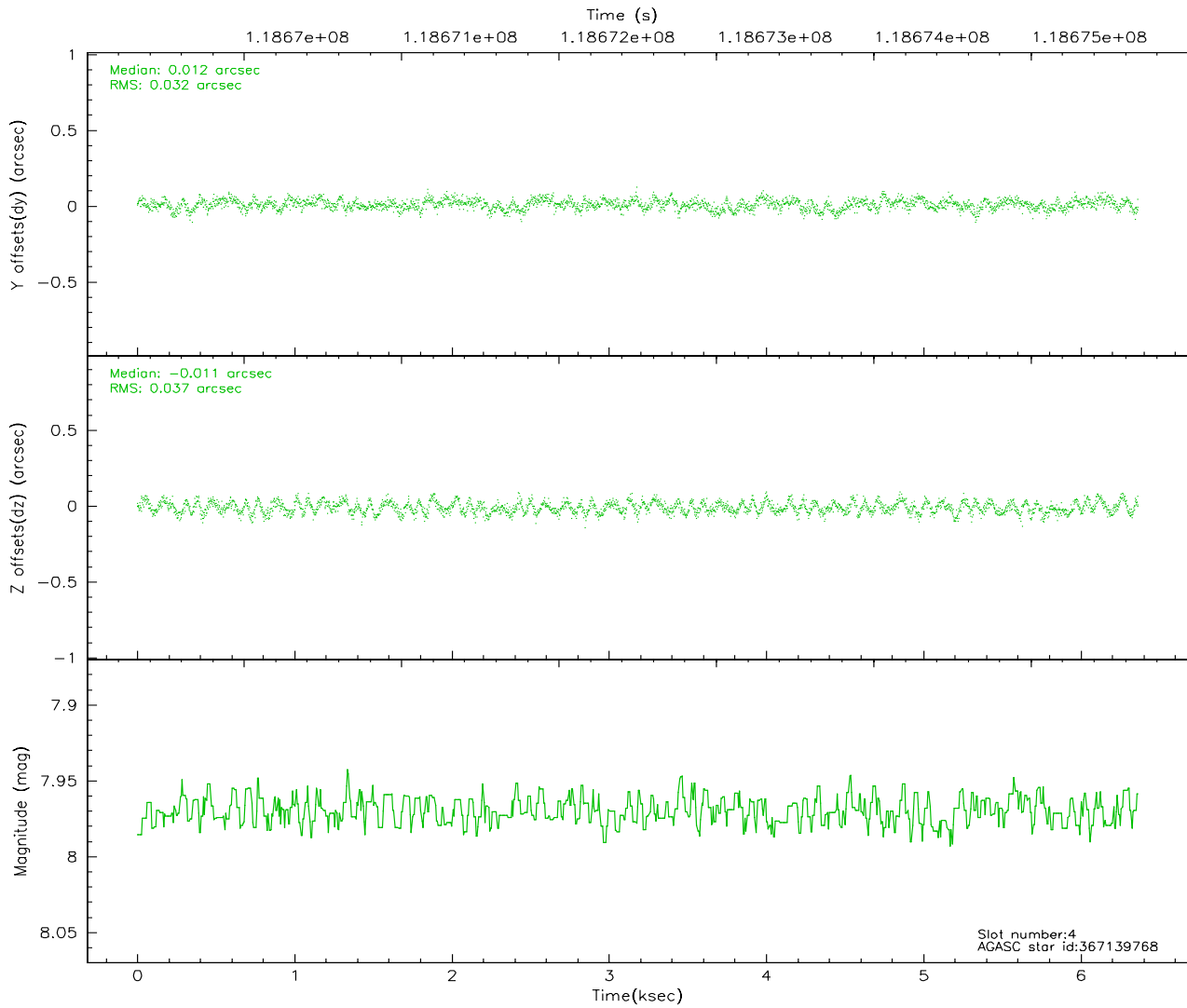
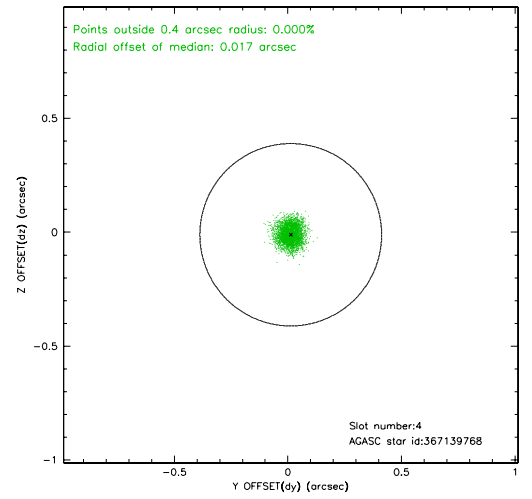
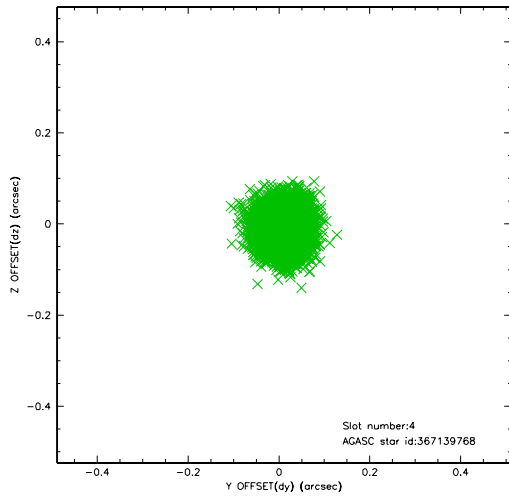
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.25	1553	-0.045	0.035	0.004	0.008	0.000000	0.000000	937.25	-829.27
1	FID	ACIS-I-5	7.24	1552	-0.016	0.015	0.004	0.008	0.000000	0.000000	-1810.29	1067.77
2	OMITTED		0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00
3	GUIDE	367148872	7.21	3106	-0.066	-0.068	0.066	0.097	10.505940	40.688258	438.31	1042.92
4	GUIDE	367139768	7.97	3105	0.012	-0.011	0.053	0.083	11.069715	40.685175	-1100.15	1079.09
5	GUIDE	367144424	8.66	3104	-0.084	-0.206	0.079	0.120	10.464515	40.309136	577.97	2405.38
6	GUIDE	367674552	8.84	3104	0.048	0.214	0.070	0.117	11.016238	41.570845	-997.04	-2110.35
7	GUIDE	367657896	9.02	3105	0.089	0.072	0.066	0.106	11.197765	41.313576	-1475.83	-1179.78

## 2.4 Star Slots

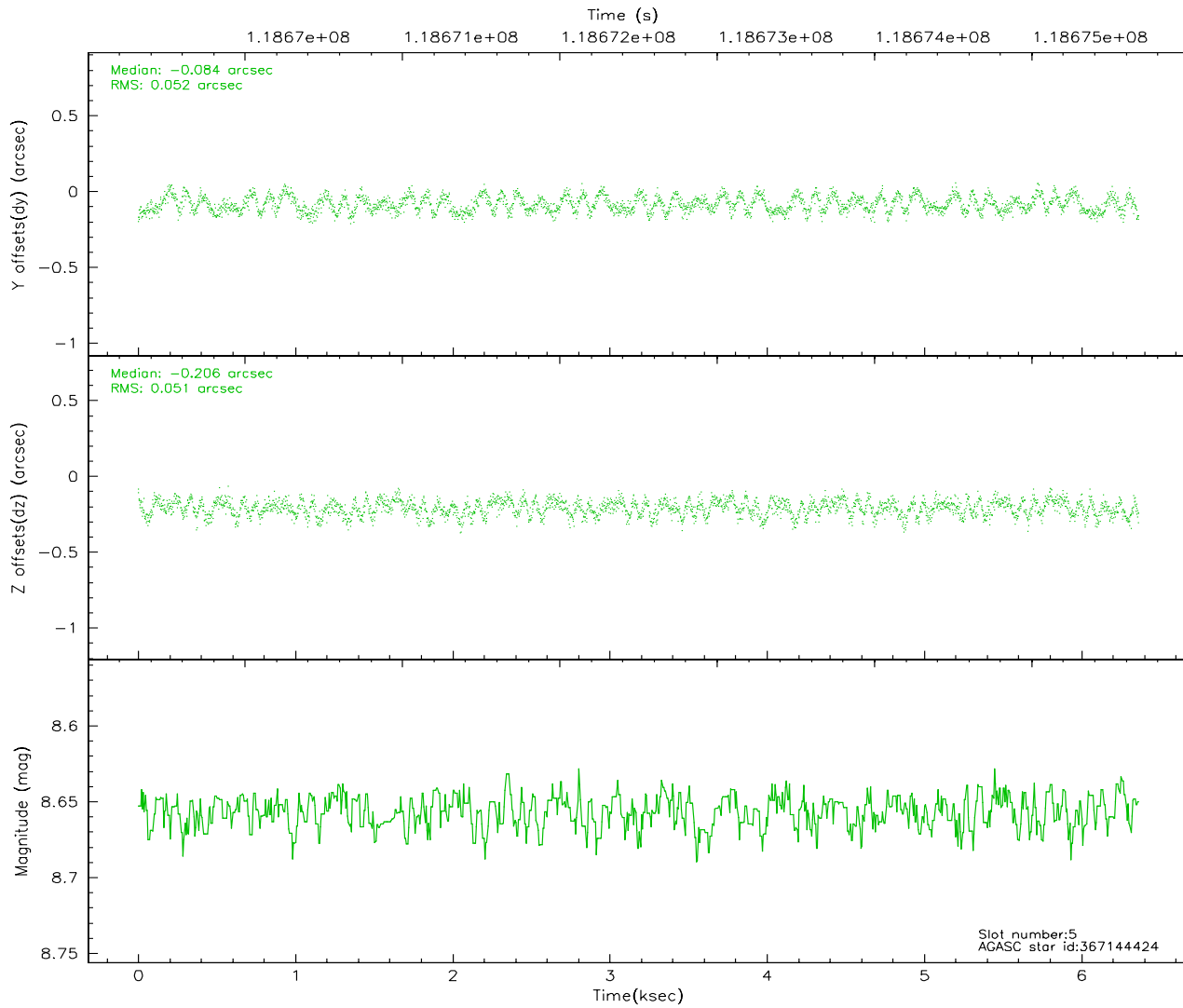
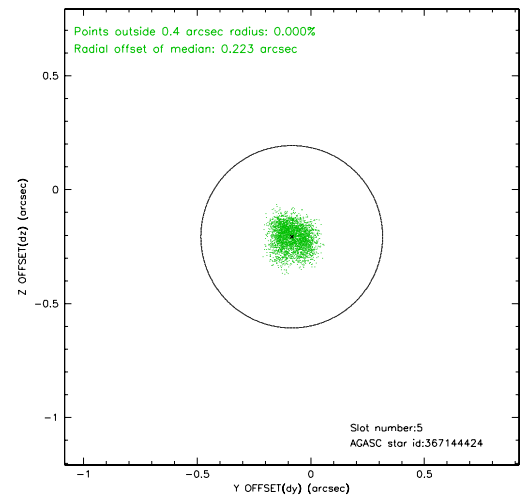
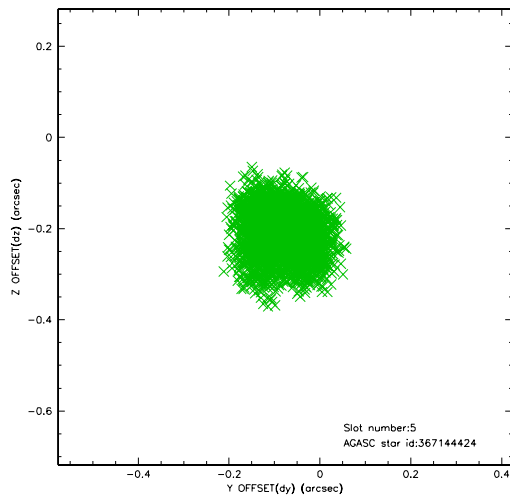
### 2.4.1 Slot 3



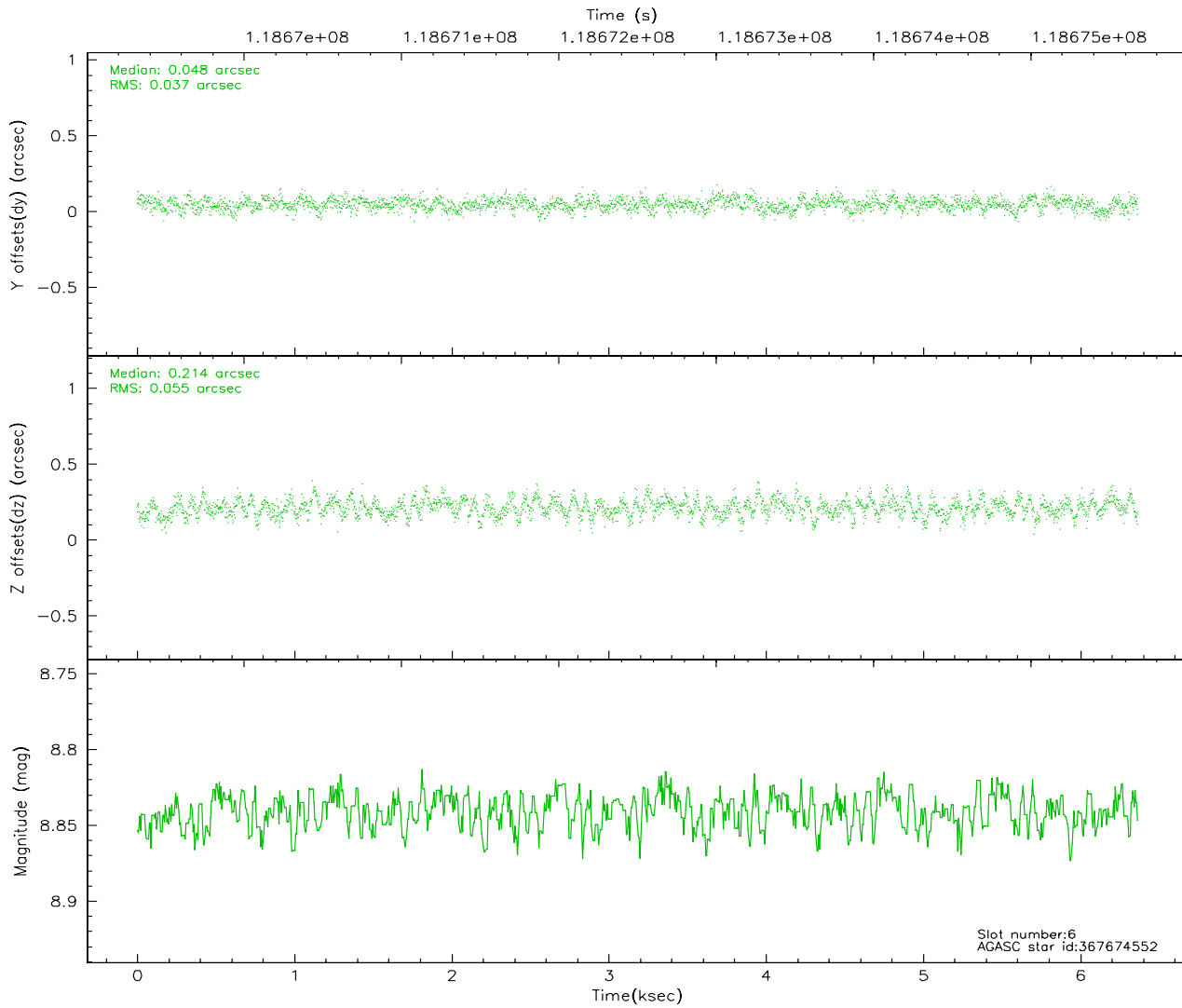
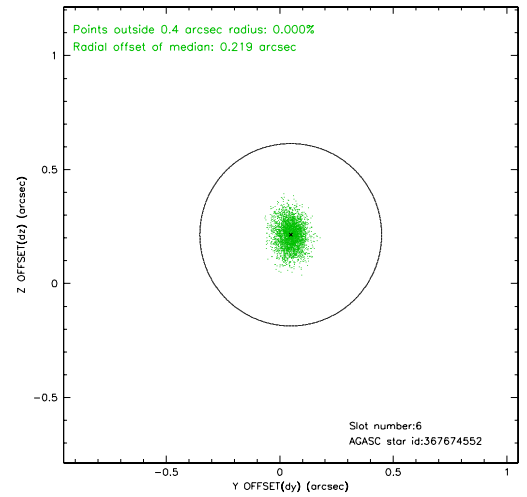
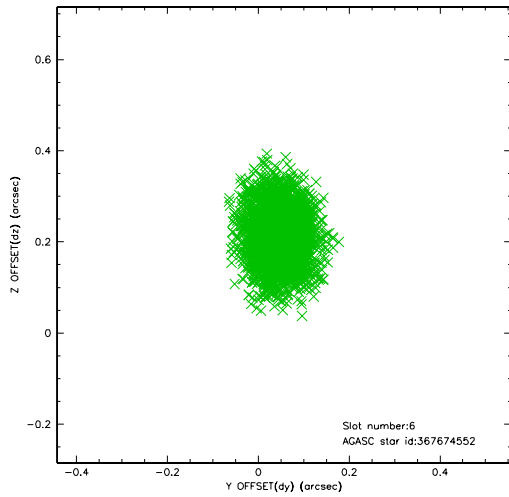
## 2.4.2 Slot 4



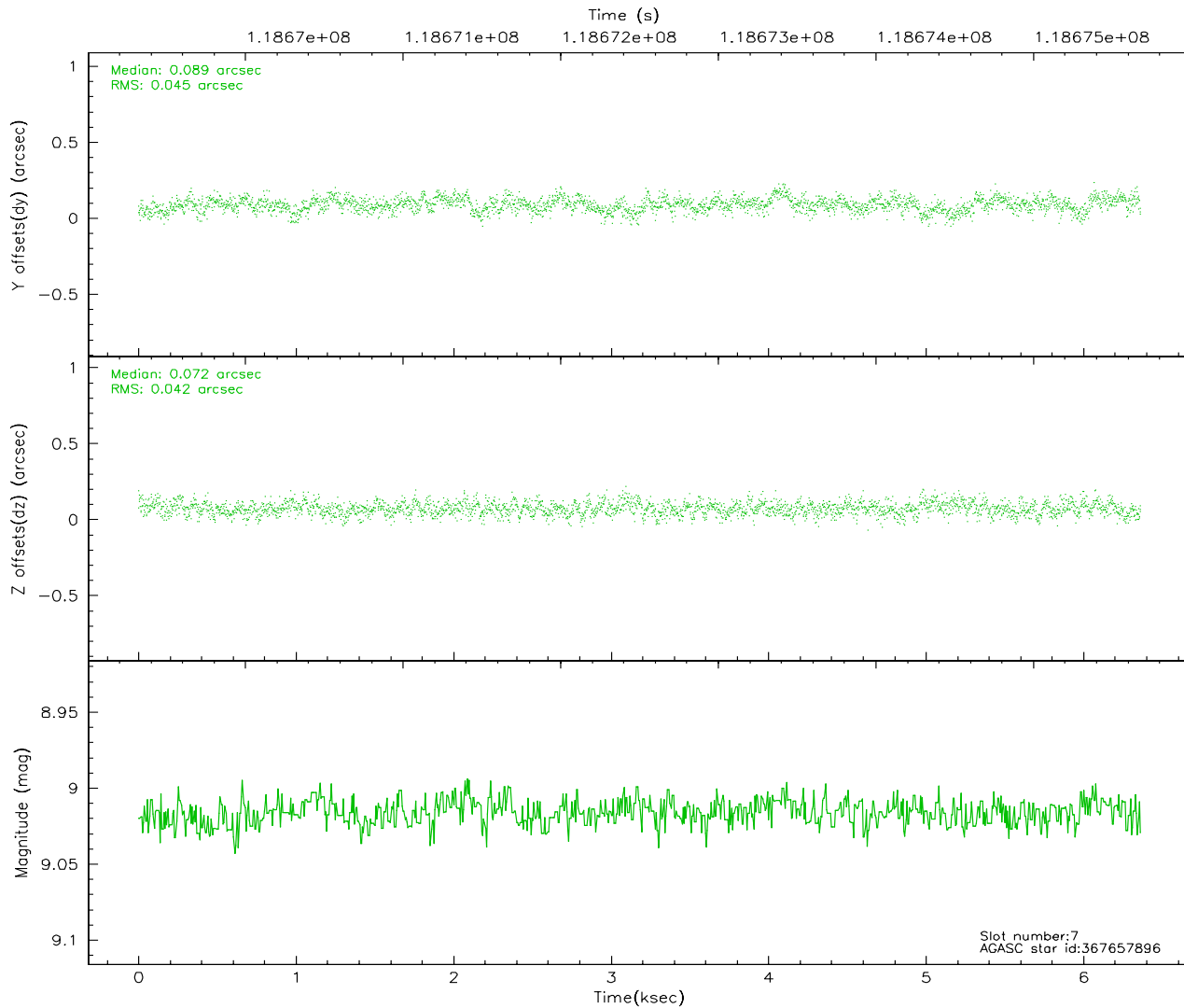
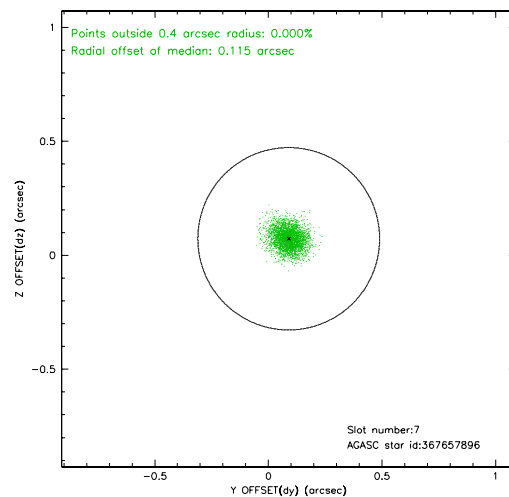
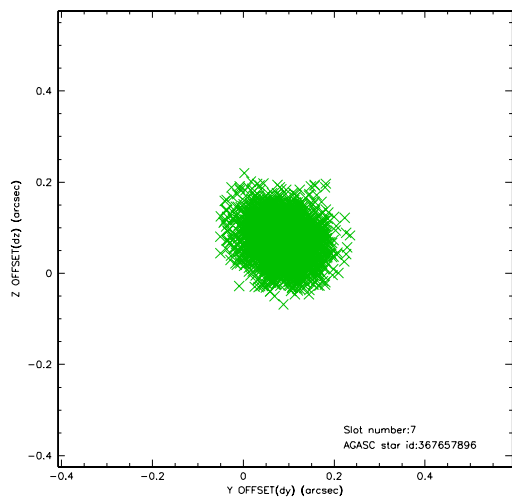
### 2.4.3 Slot 5



### 2.4.4 Slot 6

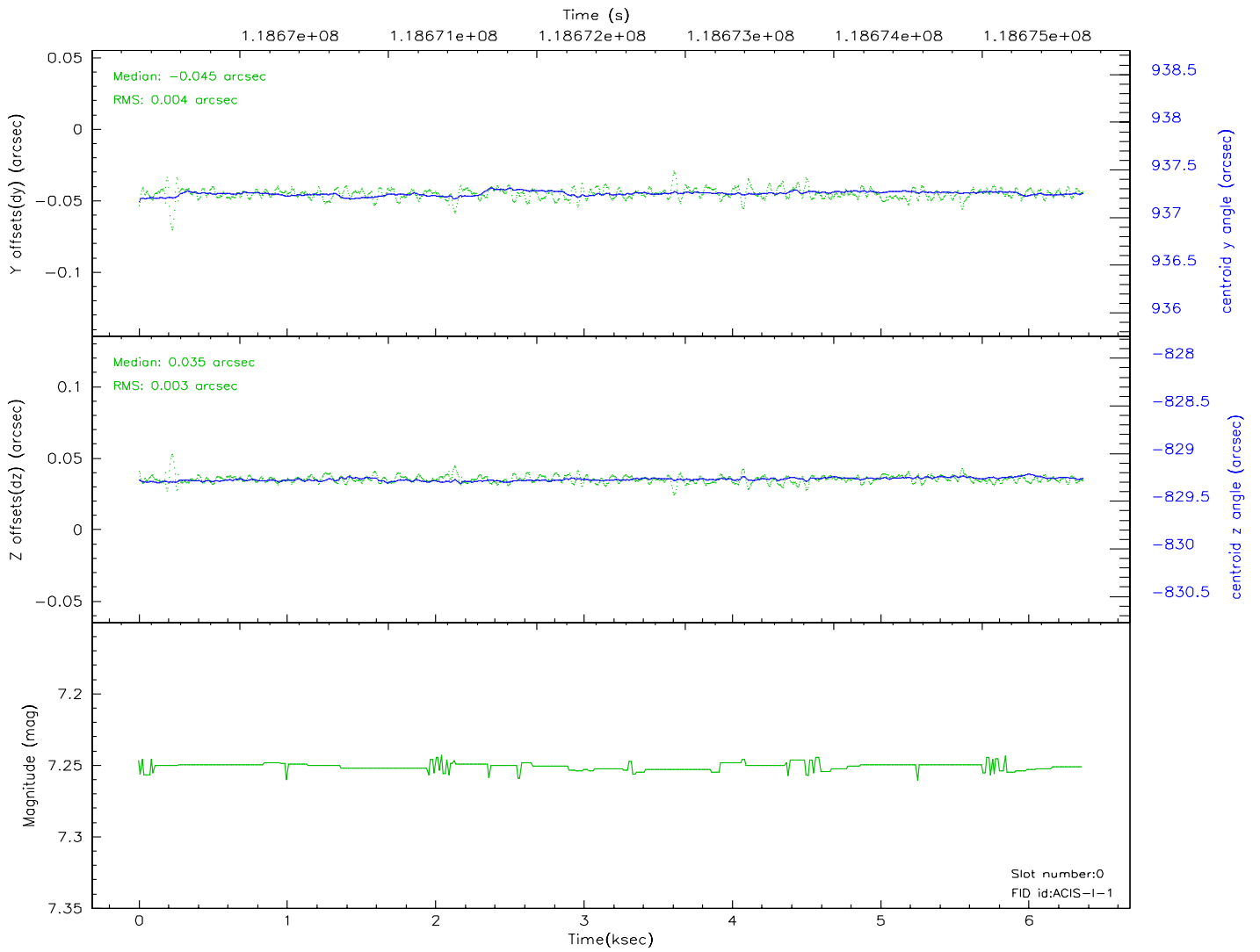
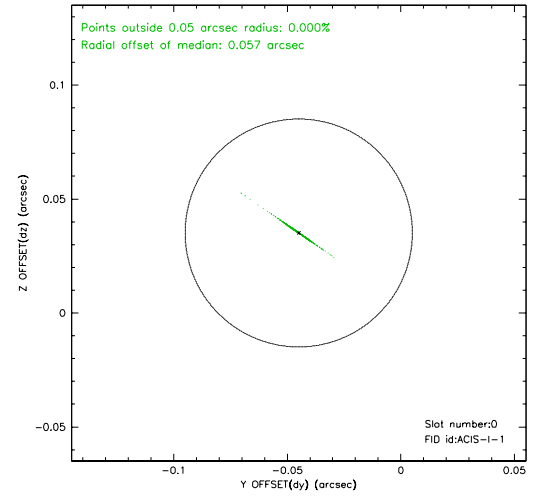
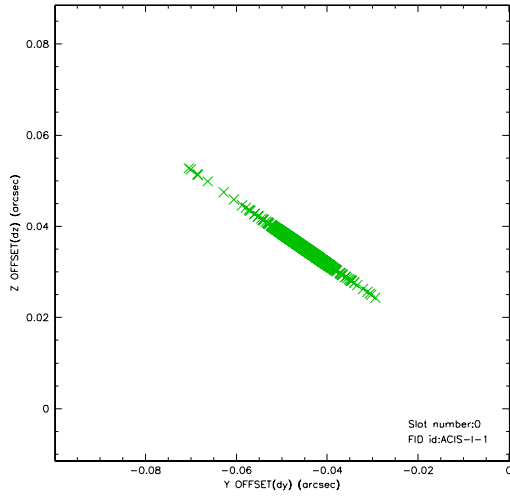


## 2.4.5 Slot 7

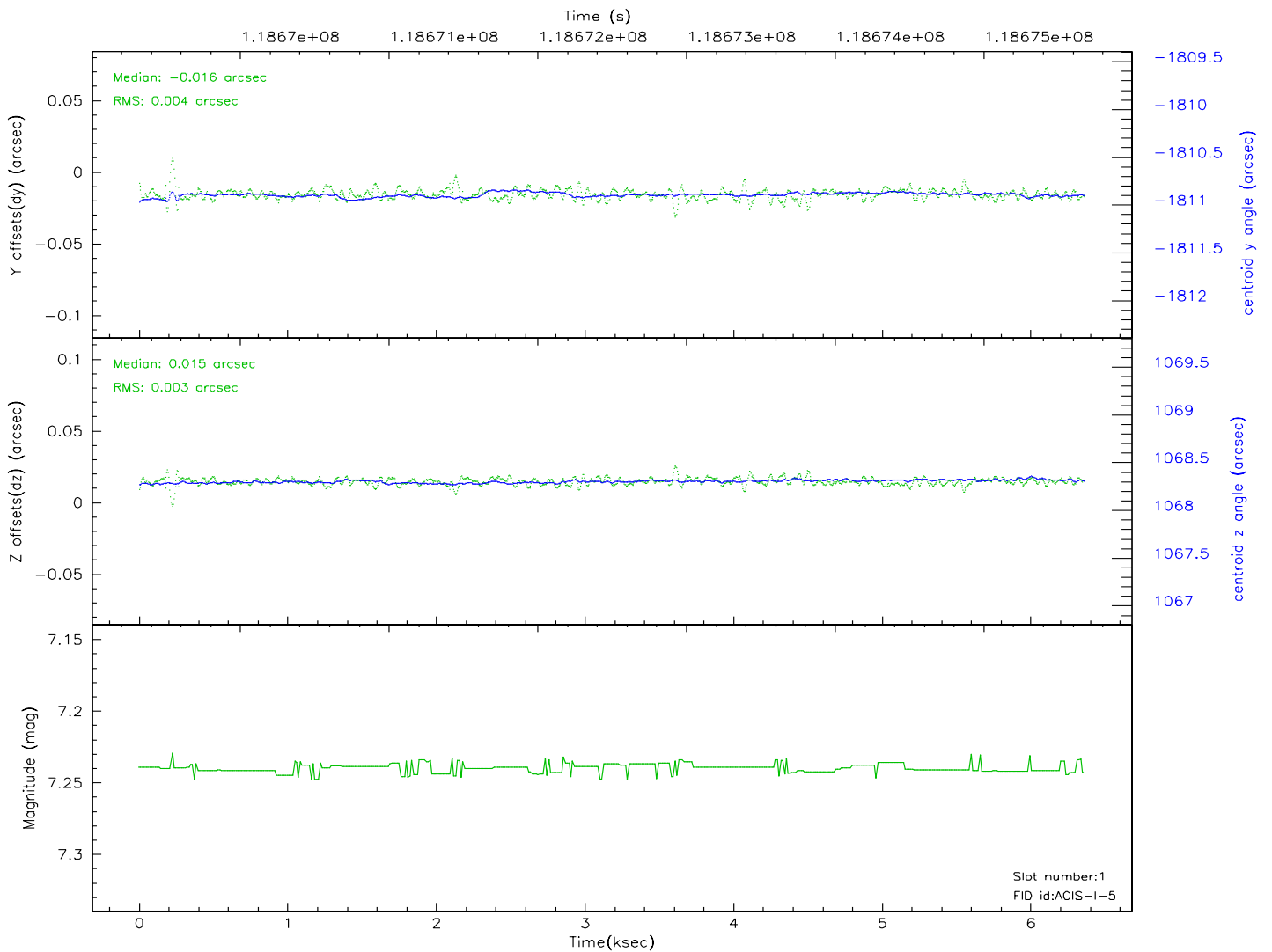
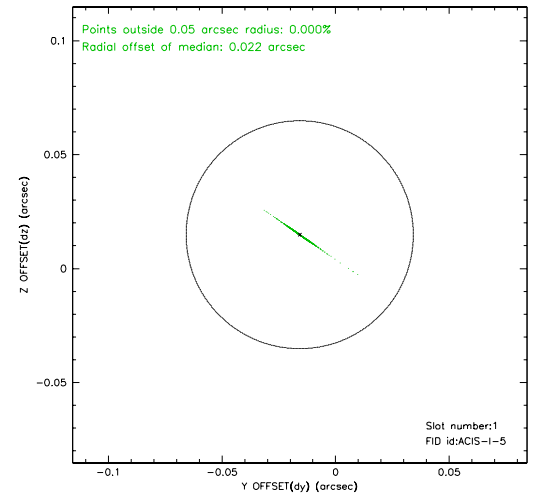
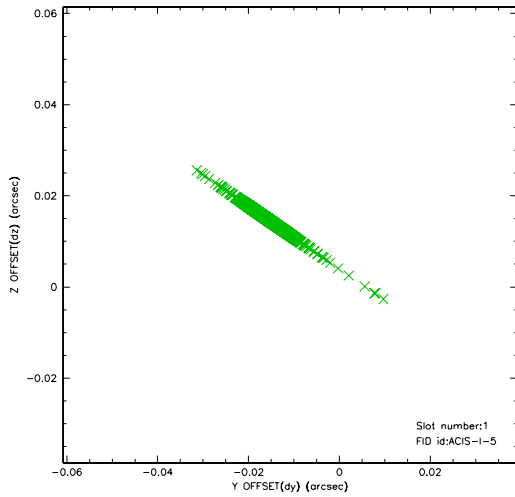


## 2.5 FID Slots

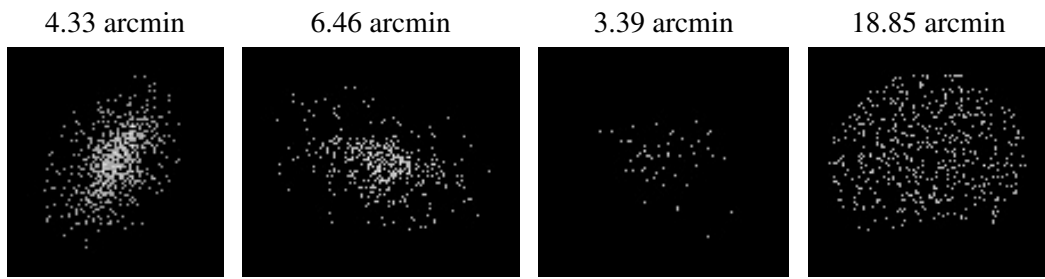
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 3 Point Sources



# A Summary

## A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2010.10.01
V&V Edition	2
V&V Disposition and Status	OK
V&V Charge Time	4.953

## A.2 Comments

The fid light in slot 2 was manually excluded from the processing due to poor data quality.

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Window constraint met.