

# V&V Reference Report

## L2 ASCDS Version : 7.6.7

Observation 5826 - L2 Version 002  
Chandra X-Ray Center

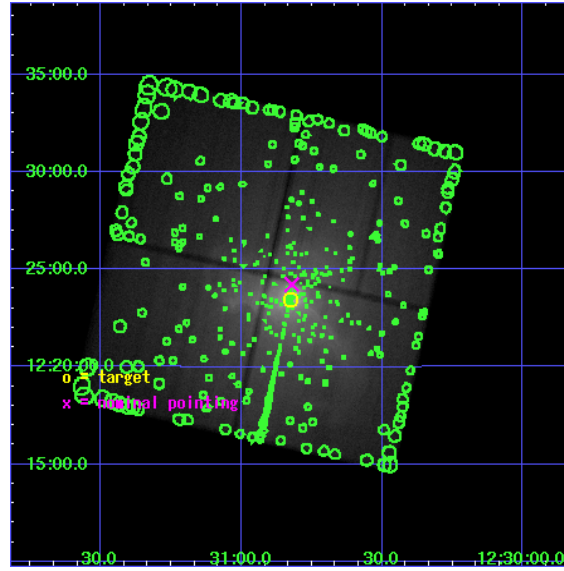
L2 Processing Date: Feb 25 2006

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# 1 Front

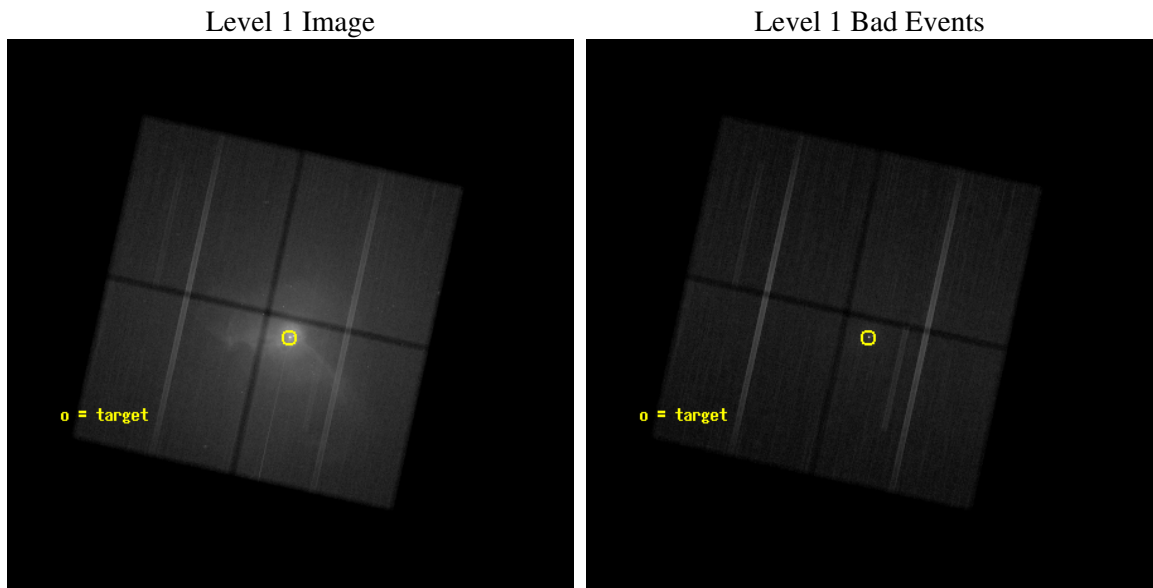
seq_num	800538
obs_id	5826
title	The History of AGN Activity in M87 and the Interaction of Nuclear Outbursts with the Surrounding Atmosphere
observer	Dr. William Forman
object	M87
dtcycle	0
cycle	P
ra_targ	187.70625
dec_targ	12.391111
ra_nom	187.70527428123
dec_nom	12.403804524389
roll_nom	102.60889900959
revision	2
ontime	128435.81281143
livetime	126757.70436398
ontime0	128435.81279162
ontime1	128426.38979086
ontime2	128426.3898209
ontime3	128435.81281143
l2events	4702581



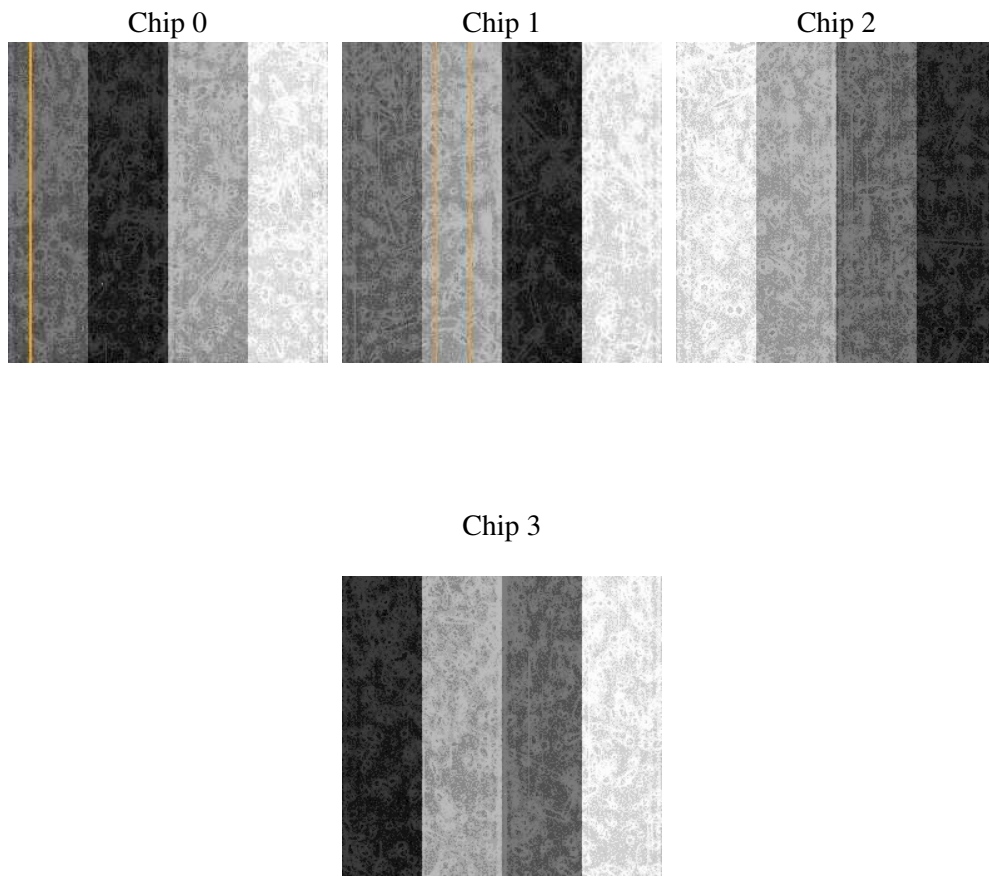
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0
ascdsver	7.6.7
caldbver	3.2.1
date	2006-02-25T18:02:43
revision	2

sched_exp_time	128394.759000
ontime	128439.16281787
ontime0	128439.16279805
ontime1	128429.7397874
ontime2	128429.73981744
ontime3	128439.16281787
l1events	7924053

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	1335553	1684509	1883372	3020619
rejected events	683115	686811	789139	793243
rejected %	51%	40%	41%	26%

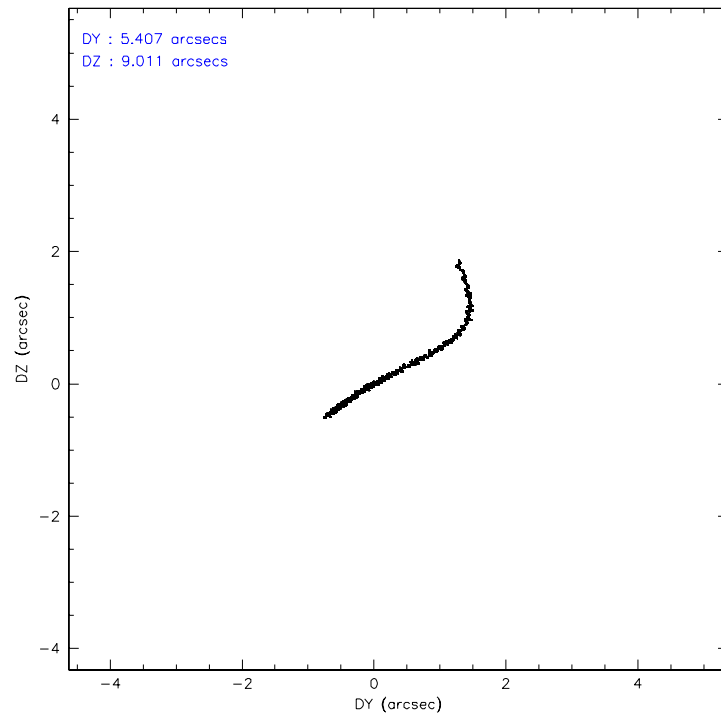
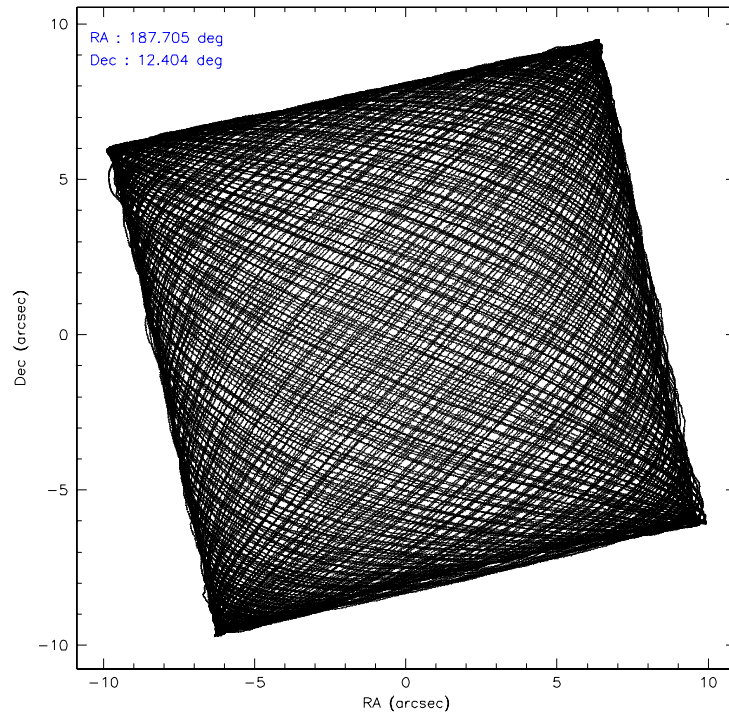
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	506246	794756	885529	1857049
	37%	47%	47%	61%
grade 1 events	2522	3447	5013	16154
	0%	0%	0%	0%
grade 2 events	72002	103255	107245	200327
	5%	6%	5%	6%
grade 3 events	24820	33486	35301	61317
	1%	1%	1%	2%
grade 4 events	24013	33190	35205	61201
	1%	1%	1%	2%
grade 5 events	30239	33566	30536	44127
	2%	1%	1%	1%
grade 6 events	25378	33032	30973	47543
	1%	1%	1%	1%
grade 7 events	650333	649777	753570	732901
	48%	38%	40%	24%

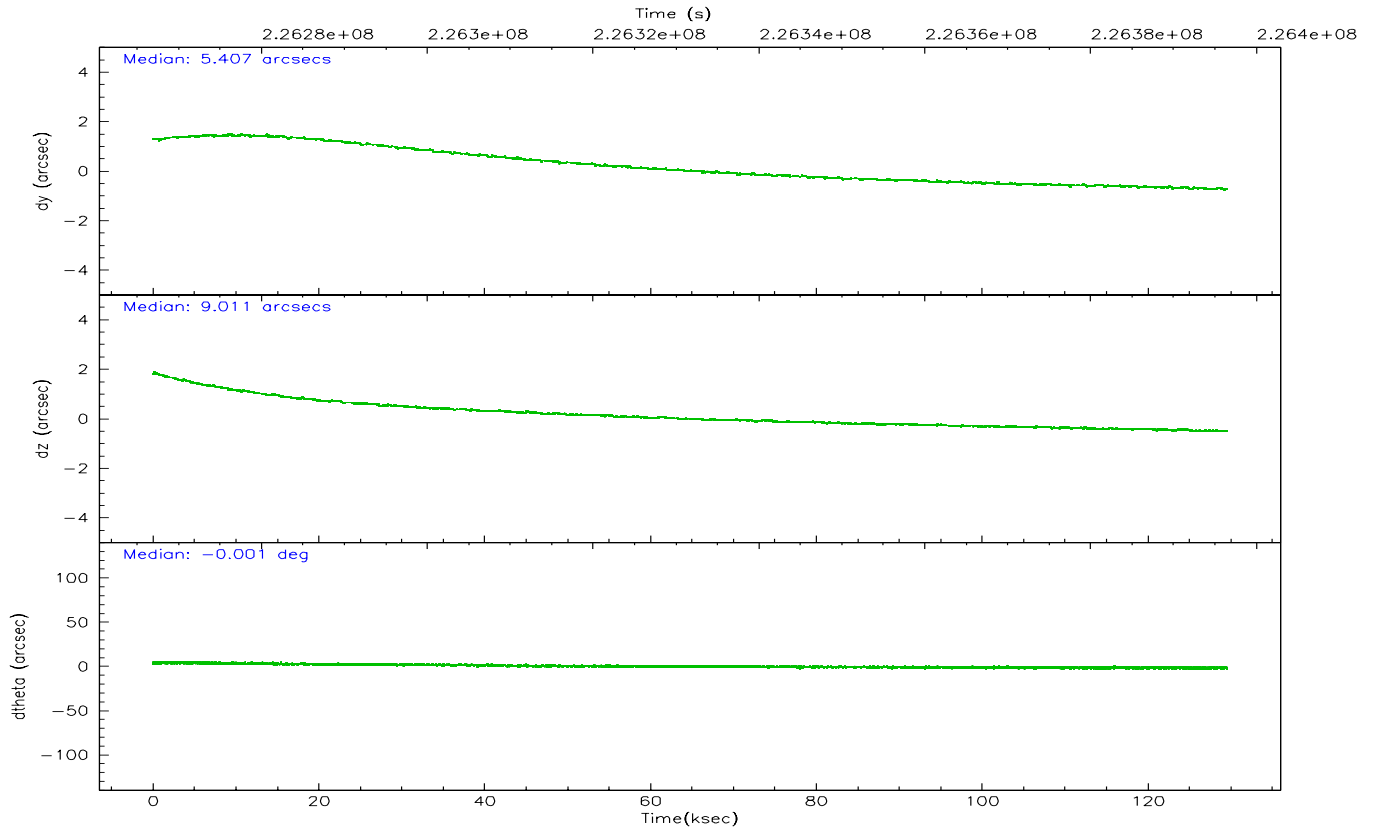
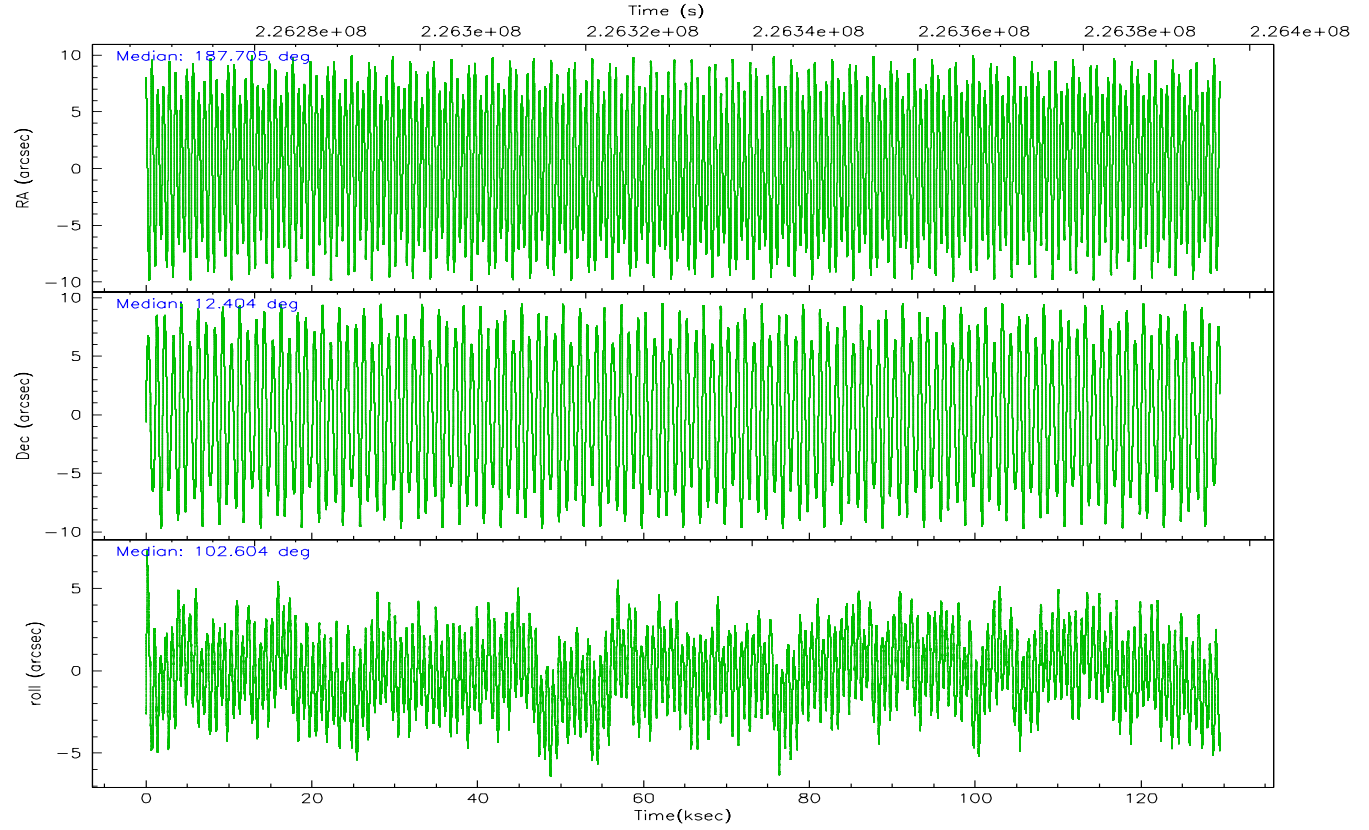


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-0123	ACIS-0123	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	On-chip summing requested	N	N
Observation mode	POINTING	POINTING	Subarray requested	NONE	NONE
Pointing RA	187.724333	187.7052742812344	Alternating exposures requested	N	N
Pointing Dec	12.383731	12.40380452438878	Primary exposure time	0.000000	3.1
Pointing Roll	102.396126	102.6088990095875			
SIM focus pos (mm)	-0.782348	-0.7809083437167272			
SIM defocus (mm)	0	0.001439871863259334			
SIM translation stage pos (mm)	-231.592463	-231.5960967419932			
SIM translation stage offset (mm)	-2	-1.996356260936523			
Observation start time	226268078.184000	226266714.94088			
Observation start date	2005-03-03T20:13:34	2005-03-03T19:51:54			
Observation end time	226396473.184000	226396711.08427			
Observation end date	2005-03-05T07:53:29	2005-03-05T07:58:31			
Read mode	TIMED	TIMED			

## 2.3 Aspect



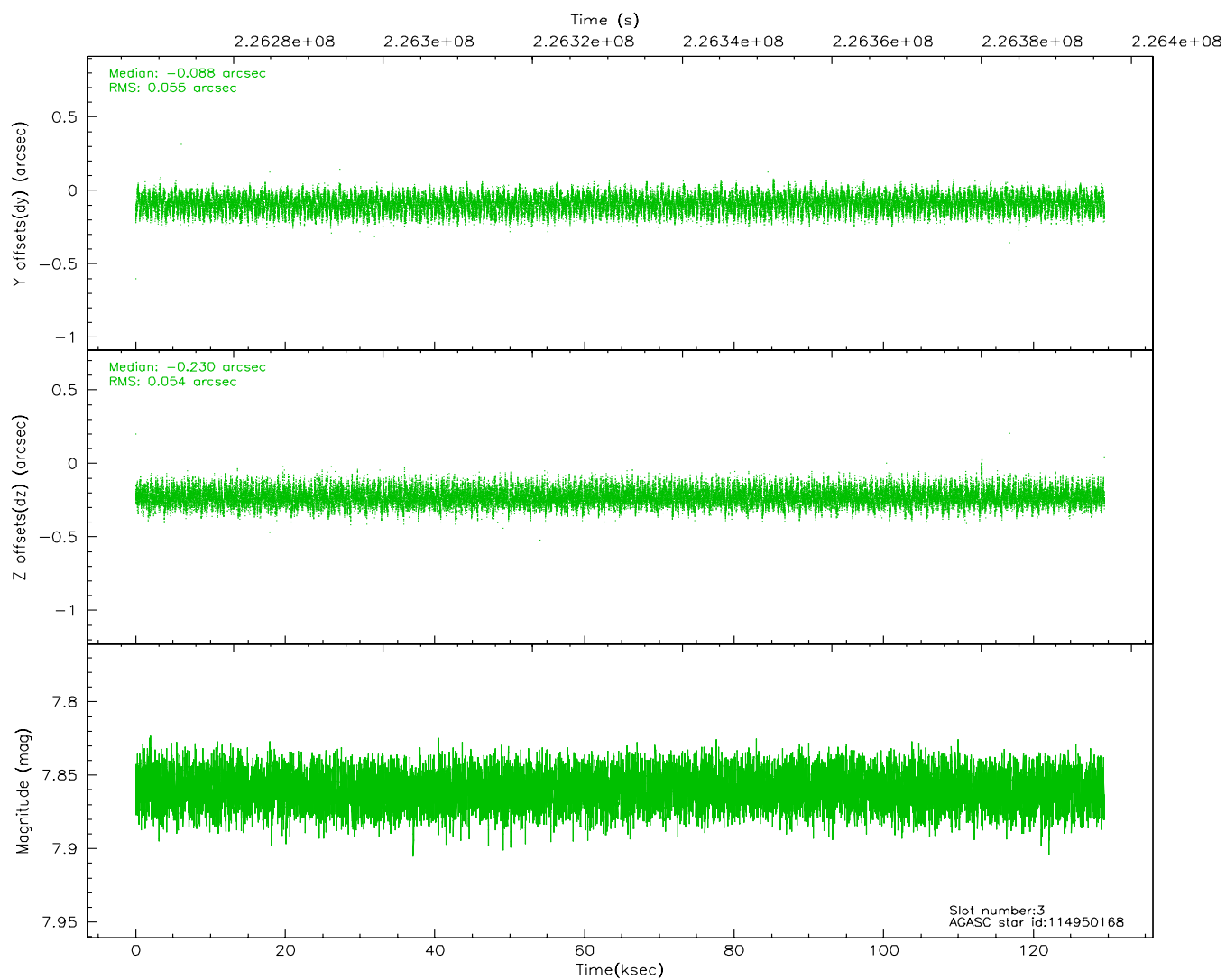
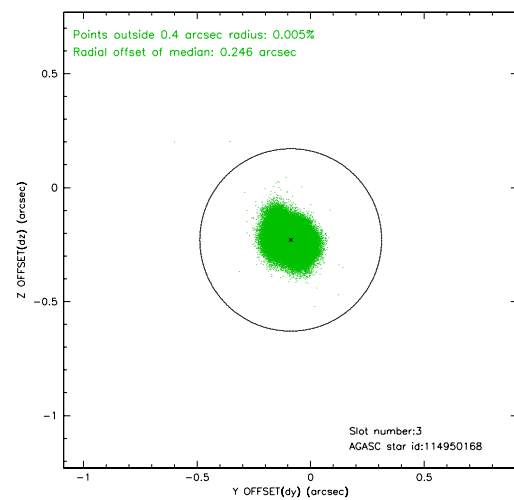
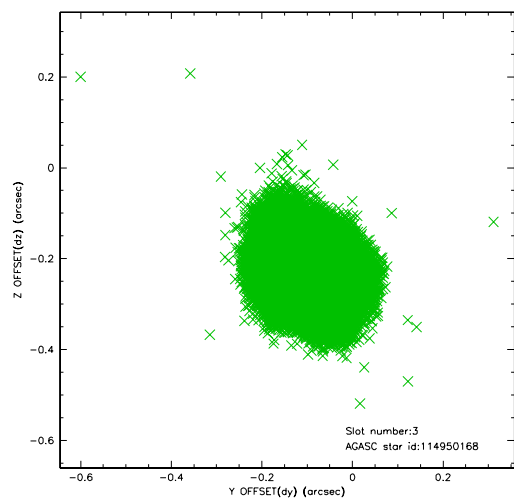


### Slot Statistics

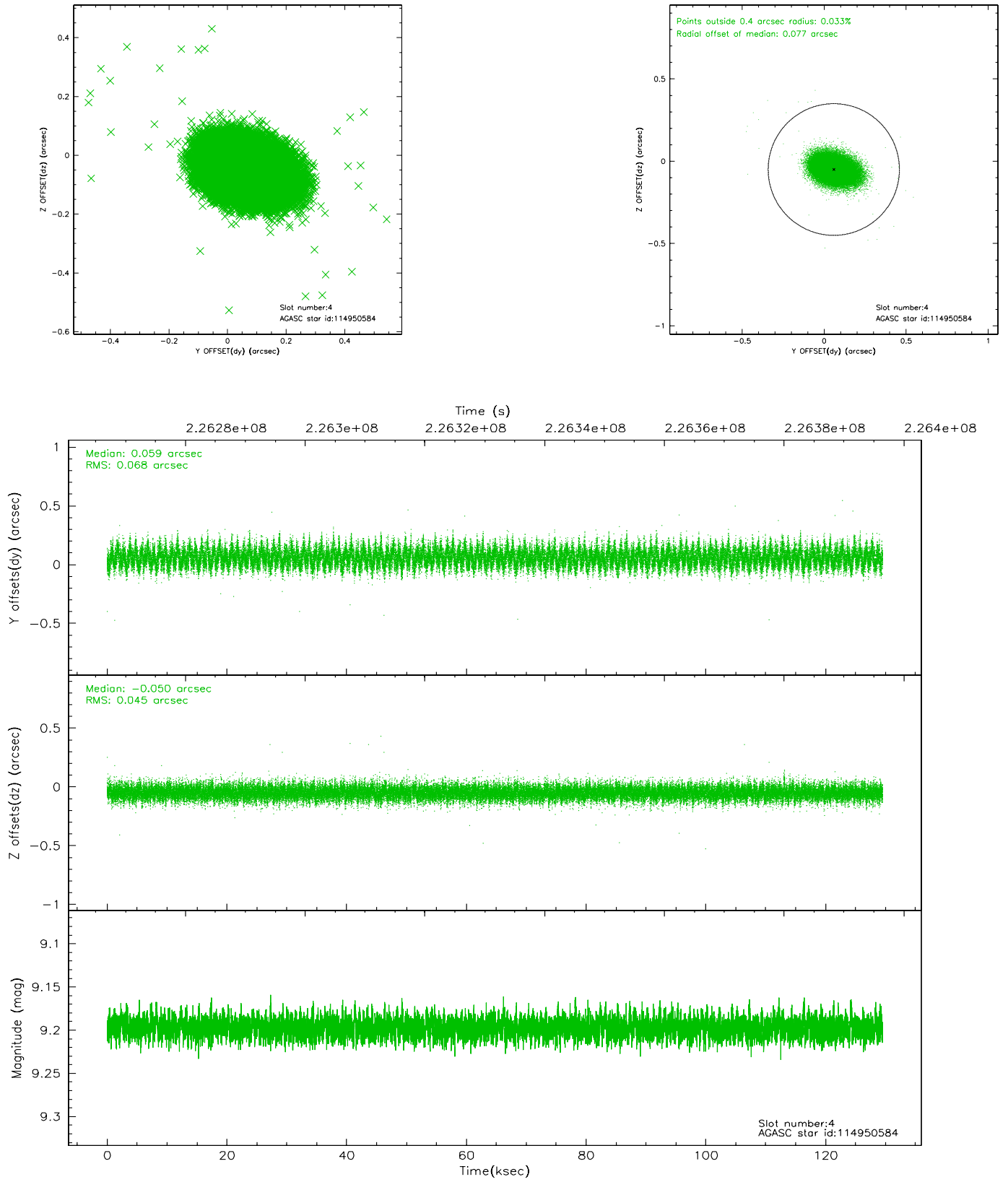
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.24	31601	0.009	0.027	0.018	0.033	0.000000	0.000000	934.06	-873.52
1	FID	ACIS-I-5	7.23	31599	-0.189	0.025	0.017	0.030	0.000000	0.000000	-1814.27	1024.06
2	FID	ACIS-I-6	7.25	31600	0.091	0.019	0.021	0.043	0.000000	0.000000	399.83	1668.41
3	GUIDE	114950168	7.86	63181	-0.088	-0.230	0.084	0.130	187.143398	12.117441	-495.65	2202.46
4	GUIDE	114950584	9.20	63091	0.059	-0.050	0.085	0.144	187.487323	11.827248	-1777.14	1245.98
5	GUIDE	114952792	9.50	63122	-0.121	-0.130	0.118	0.187	187.070263	12.344747	358.94	2276.84
6	GUIDE	114955056	8.32	63115	0.065	0.369	0.073	0.116	187.914001	12.127854	-1042.68	-453.64
7	GUIDE	114956608	9.64	63161	0.083	0.038	0.141	0.220	187.452443	11.725979	-2106.72	1444.92

## 2.4 Star Slots

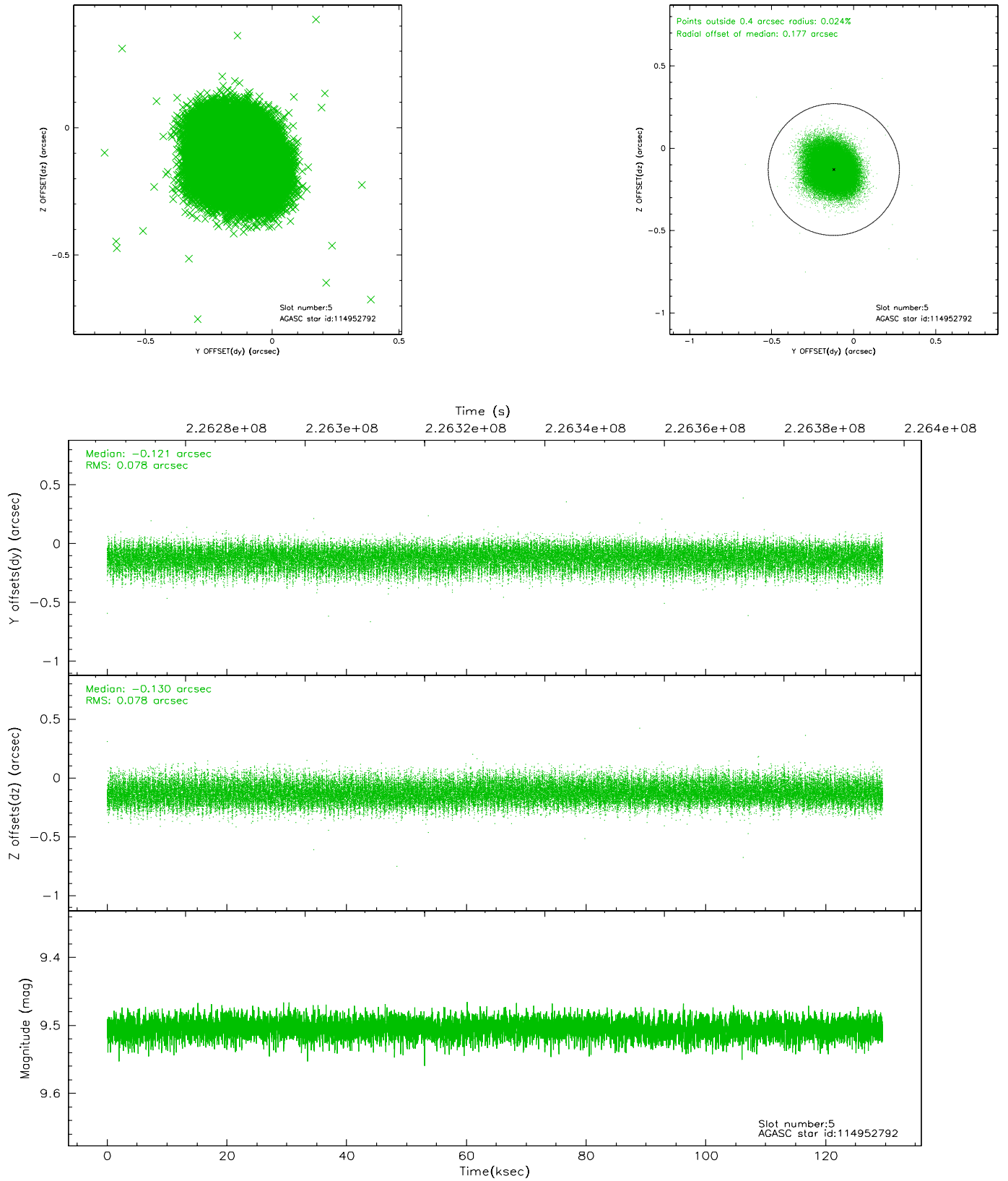
### 2.4.1 Slot 3



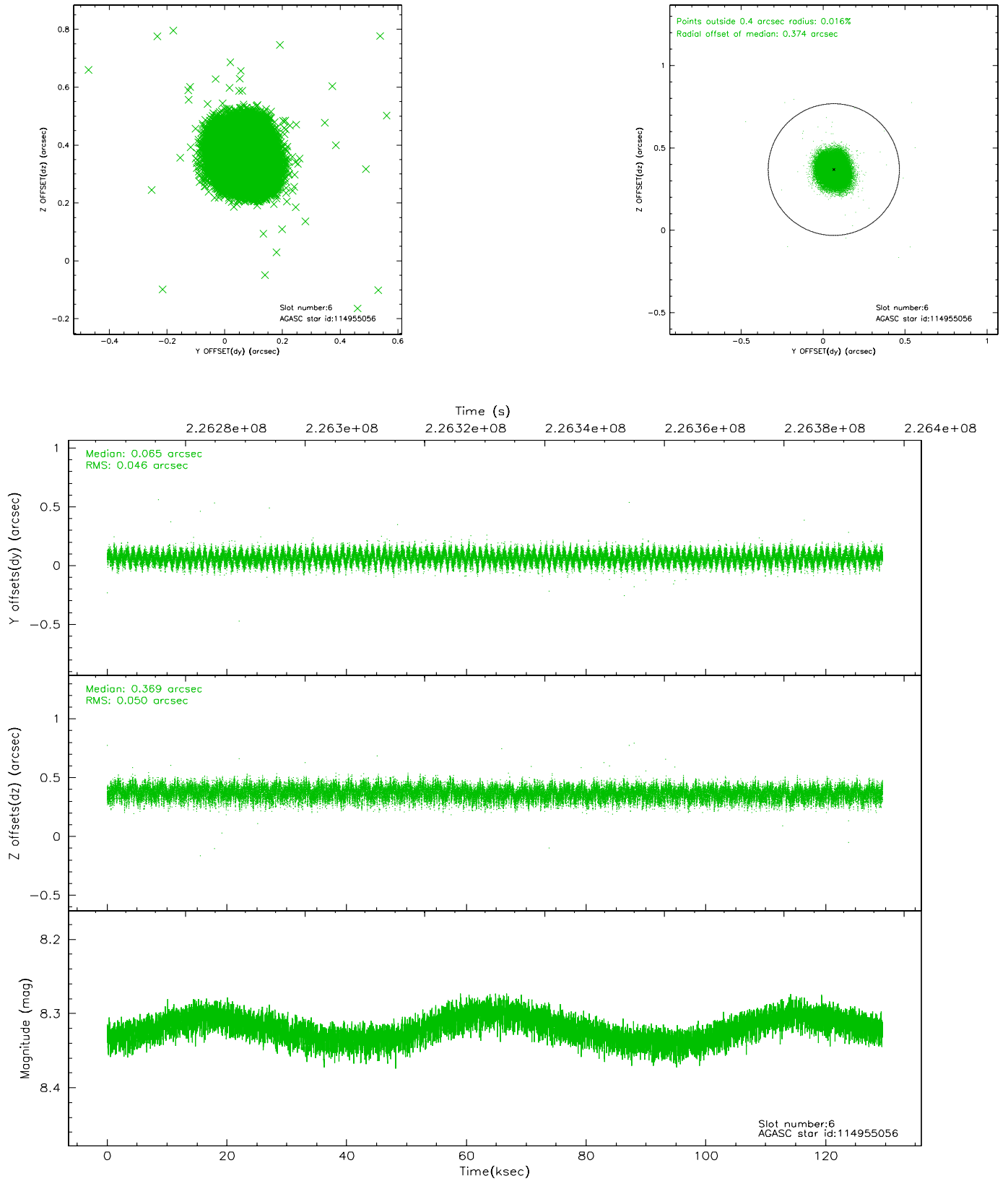
## 2.4.2 Slot 4



### 2.4.3 Slot 5

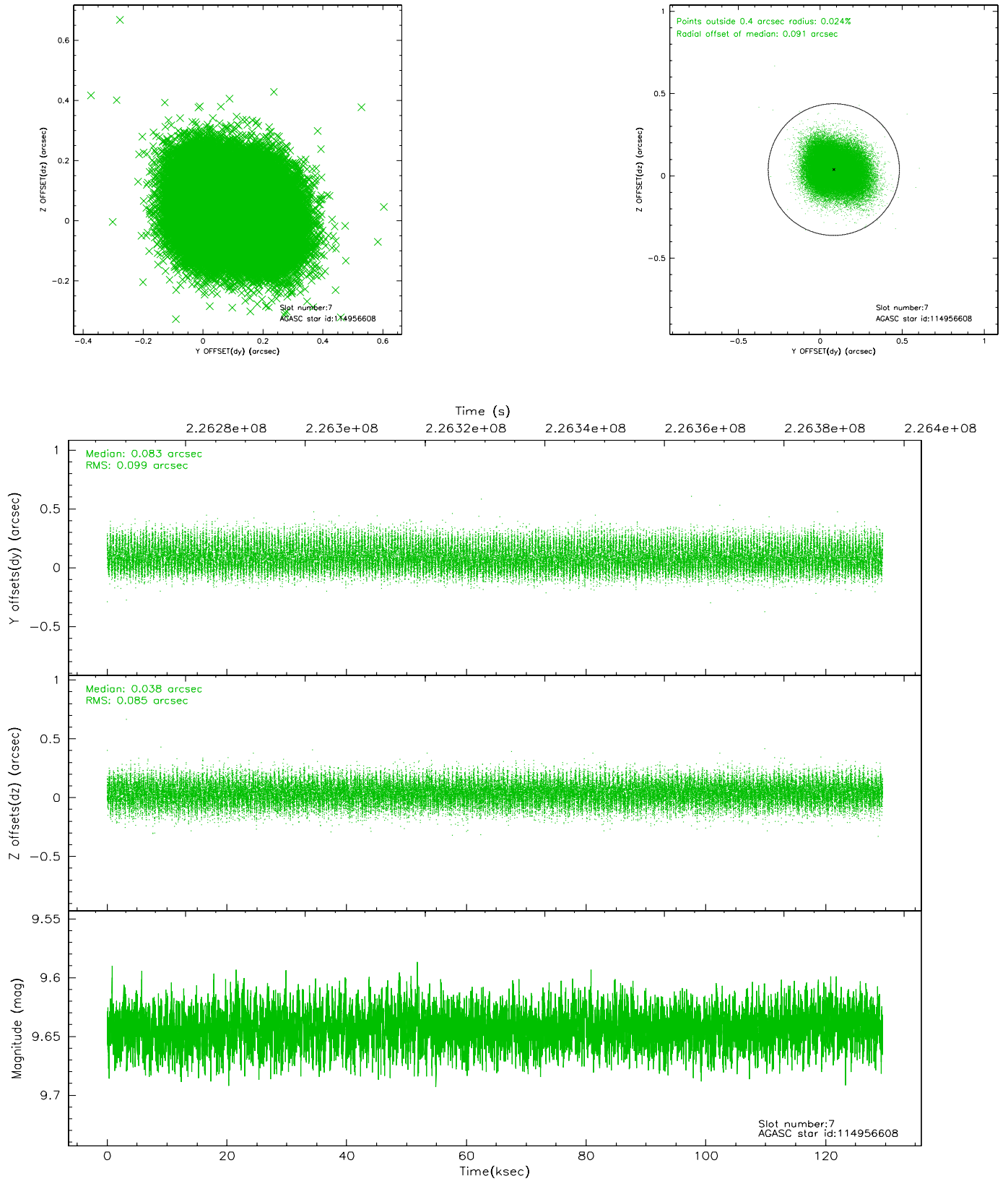


## 2.4.4 Slot 6



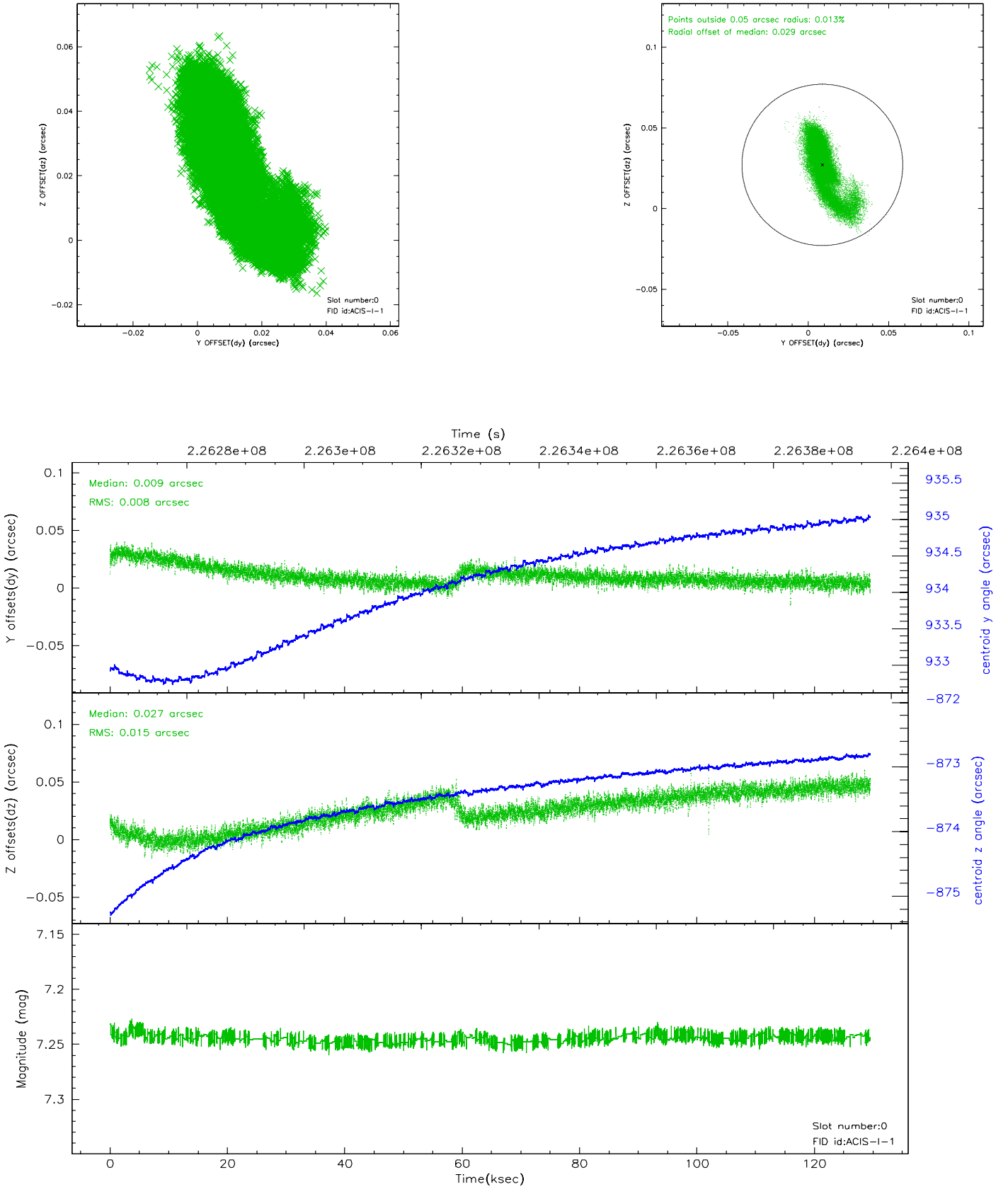


## 2.4.5 Slot 7

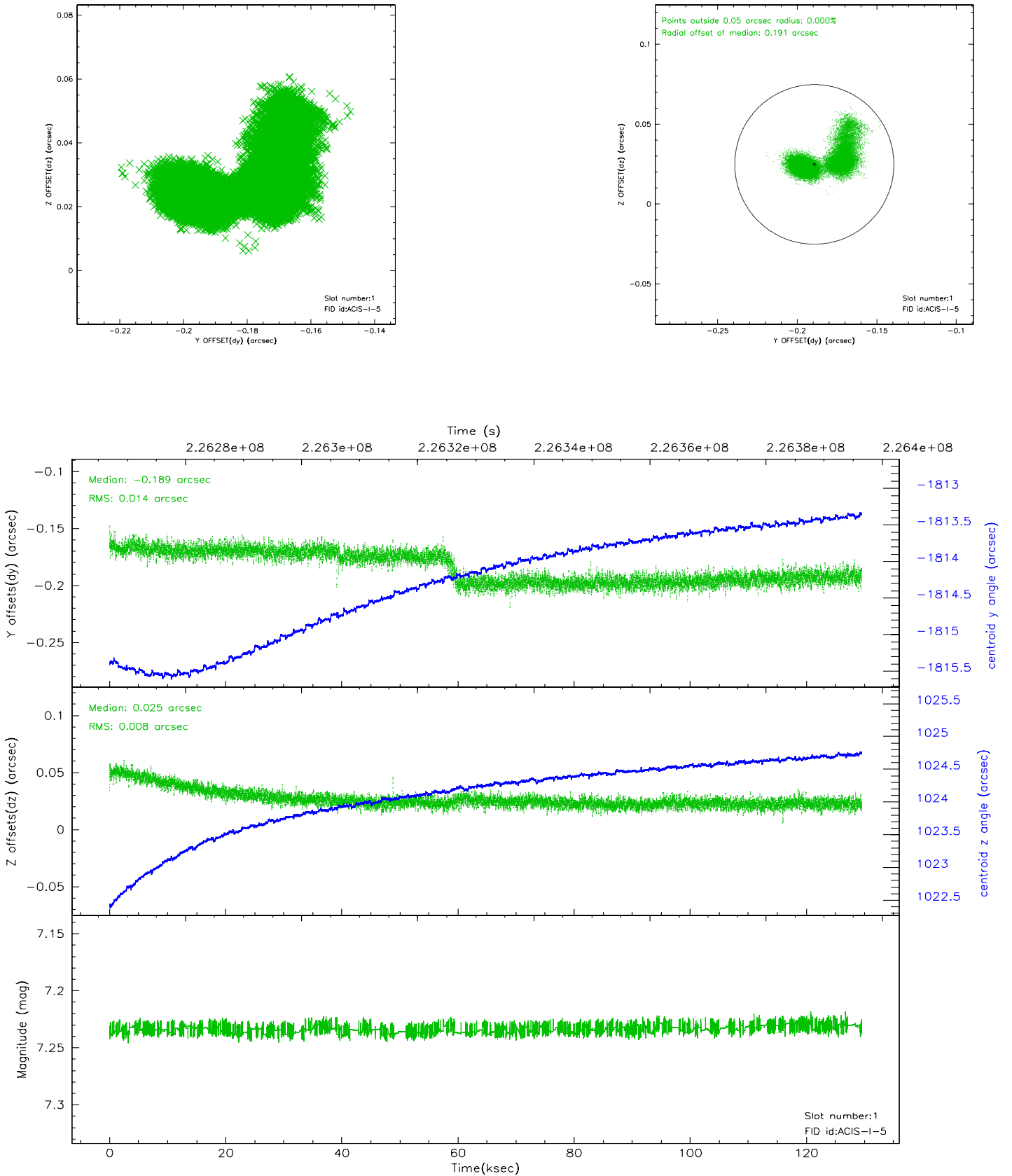


## 2.5 FID Slots

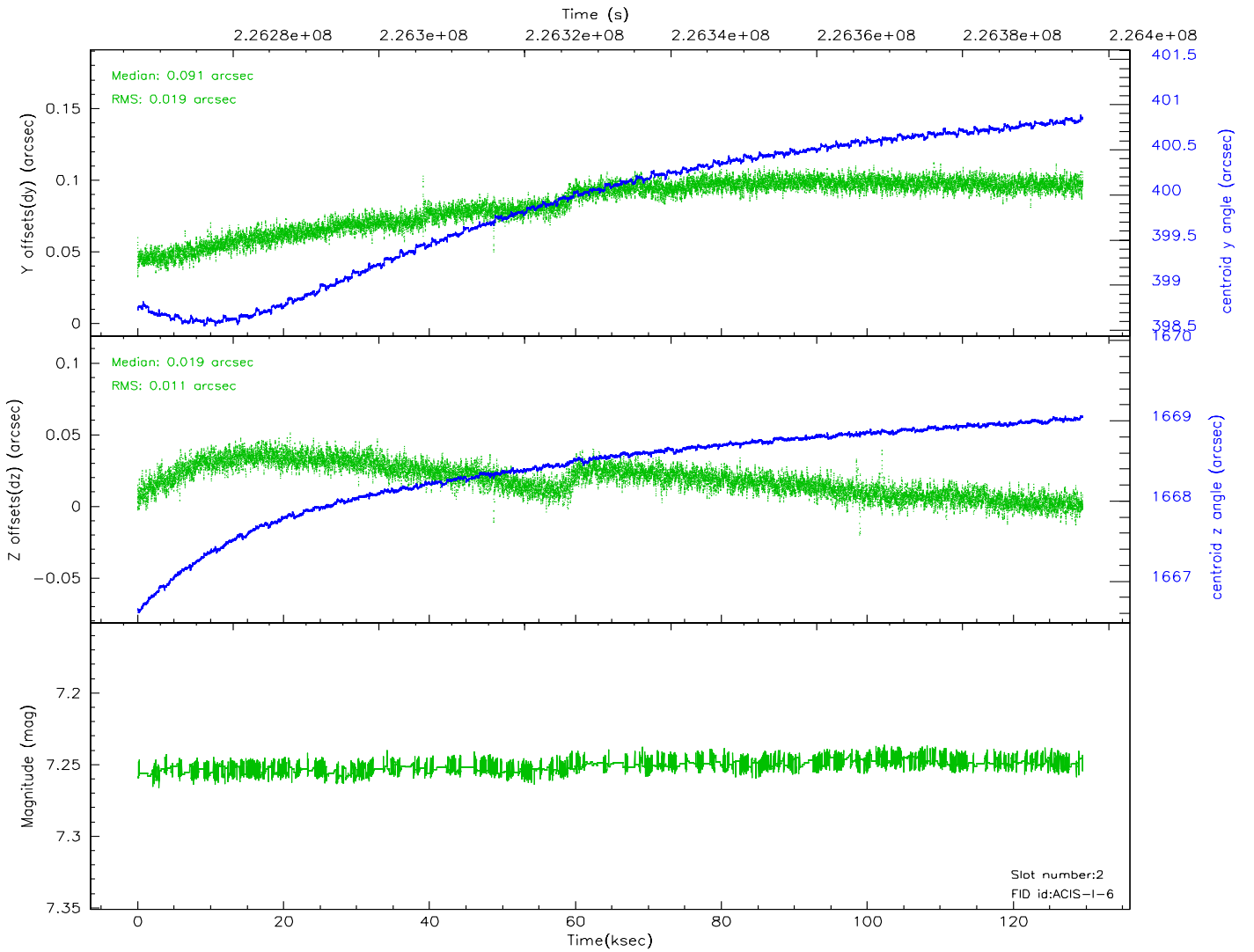
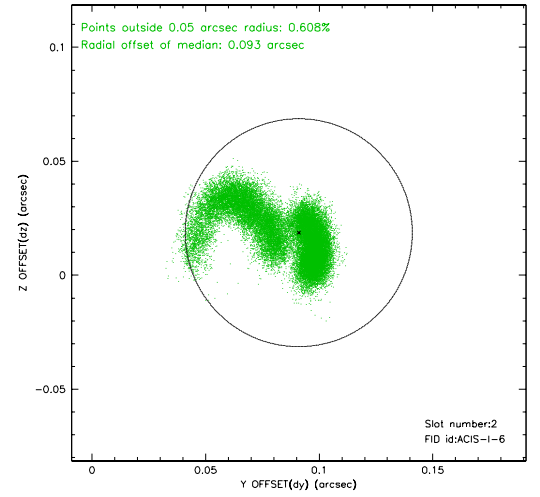
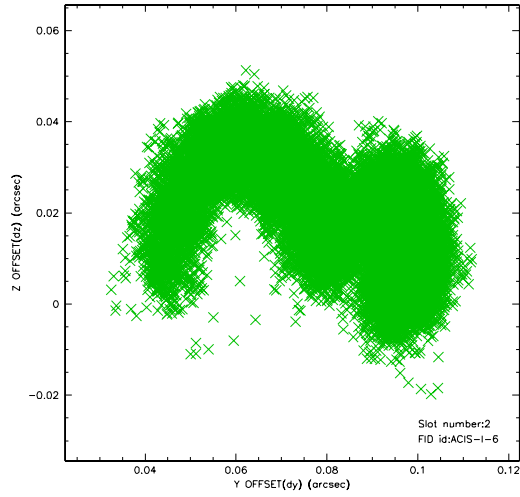
### 2.5.1 Slot 0



## 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)	2006.02.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	128.4358

## A.2 Comments

Focal plane temperature begins to rise sharply at around 50 ksec, and continues to increase throughout the observation. Calibration may be affected during the final 10-15 ksec.