

# V&V Reference Report

## L2 ASCDS Version : 7.6.7.2

Observation 5013 - L2 Version 001  
Chandra X-Ray Center

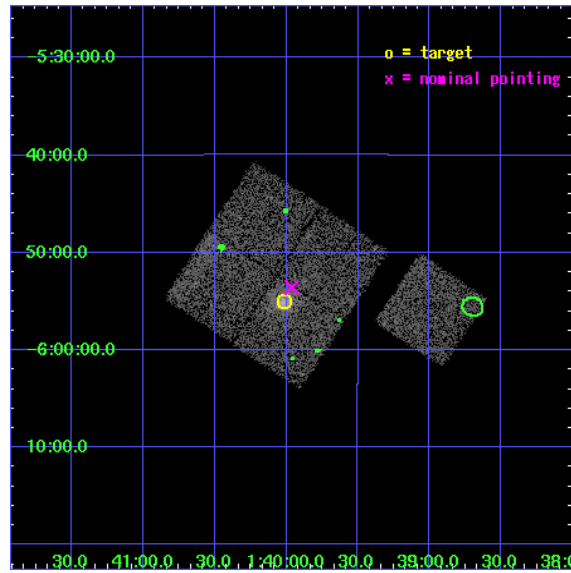
L2 Processing Date : May 1 2006

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# 1 Front

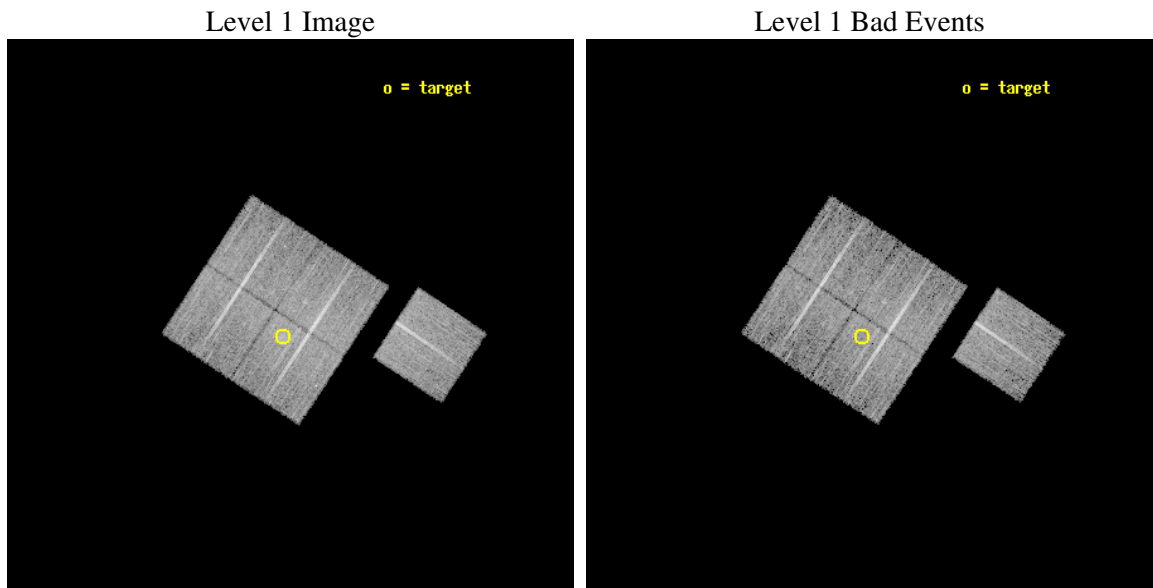
seq_num	800456
obs_id	5013
title	Cluster studies: Determination of H0/q0
observer	DR. LEON VANSPEYBROECK
object	MACS0140.0-0555
dtcycle	0
cycle	P
ra_targ	25.004167
dec_targ	-5.917222
ra_nom	24.990506776796
dec_nom	-5.8930771855351
roll_nom	123.38946081404
revision	2
ontime	10332.299980134
livetime	10197.300874365
ontime0	10329.159039825
ontime1	10332.299980134
ontime2	10329.159009904
ontime3	10332.299980134
ontime6	10329.159019887
l2events	28089



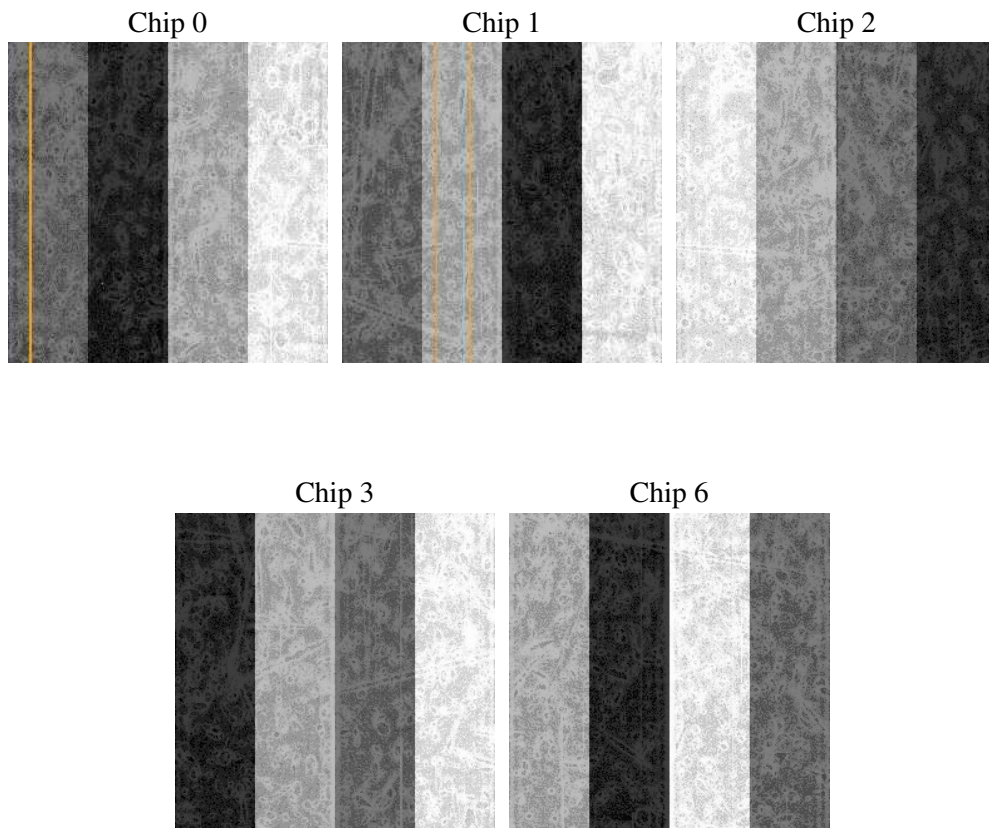
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0
ascdsver	7.6.7.2
caldbver	3.2.1
date	2006-05-01T10:33:31
revision	2

sched_exp_time	10200.000000
ontime	10698.253303051
ontime0	10695.112332821
ontime1	10698.253273129
ontime2	10695.112332821
ontime3	10698.253303051
ontime6	10695.112312883
l1events	323755

### 2.1.4 Events

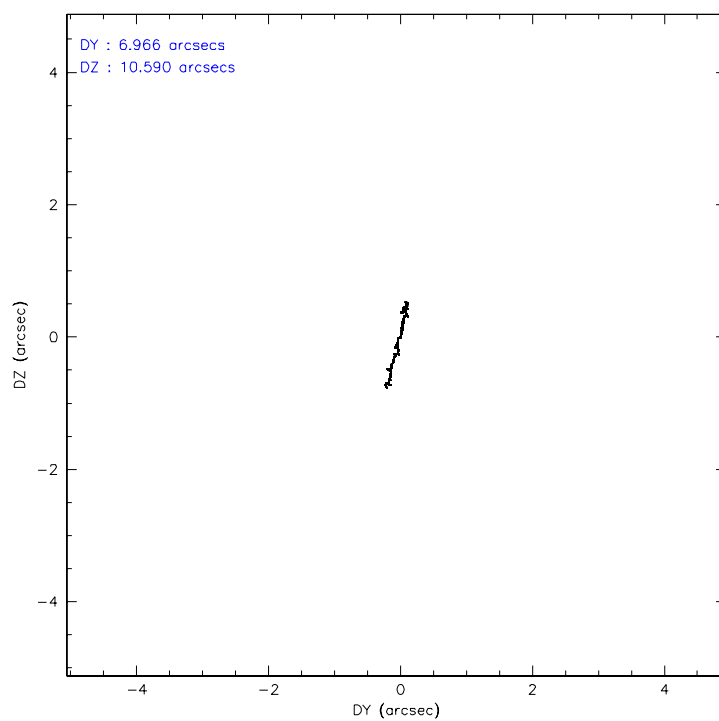
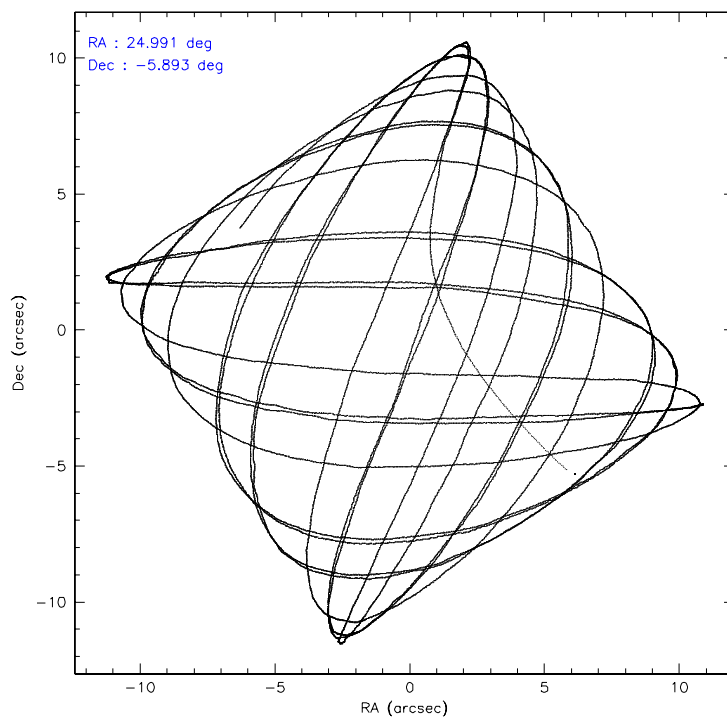
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	60861	61477	67508	67432	66477
rejected events	54497	54359	61389	59514	60196
rejected %	89%	88%	90%	88%	90%

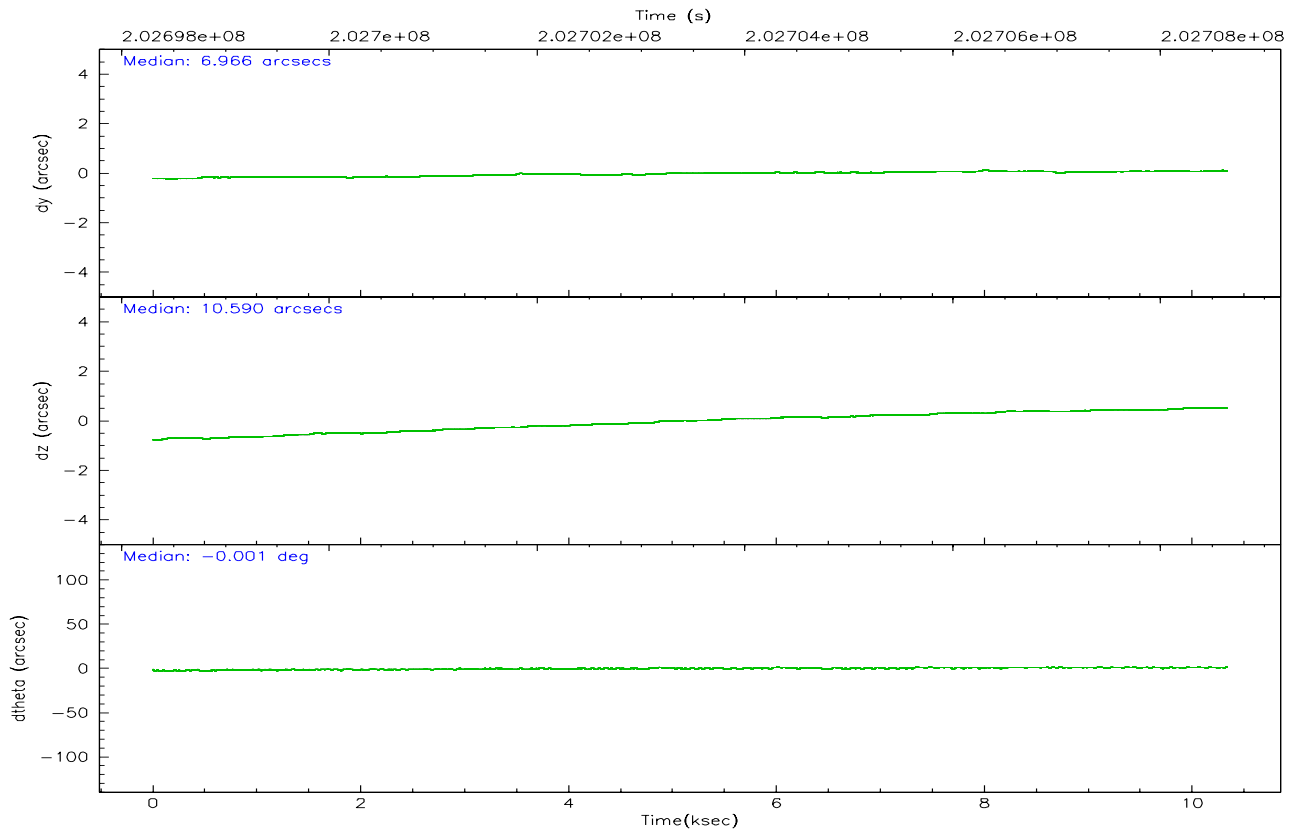
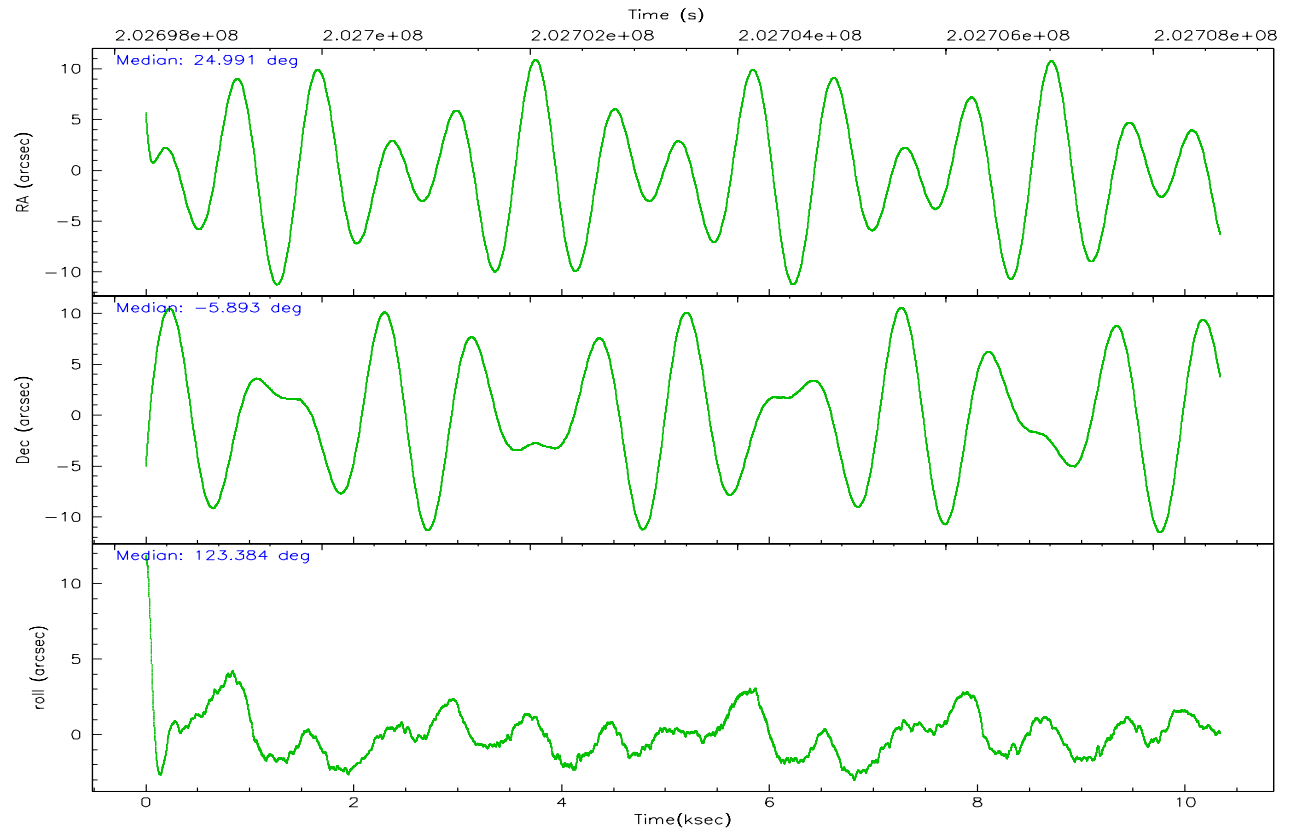
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	2224	2586	2238	3885	2220
	3%	4%	3%	5%	3%
grade 1 events	32	31	35	40	28
	0%	0%	0%	0%	0%
grade 2 events	1611	1599	1473	1473	1403
	2%	2%	2%	2%	2%
grade 3 events	842	816	678	791	759
	1%	1%	1%	1%	1%
grade 4 events	695	827	715	813	750
	1%	1%	1%	1%	1%
grade 5 events	2395	2523	2172	2527	2616
	3%	4%	3%	3%	3%
grade 6 events	1205	1520	1203	1206	1373
	1%	2%	1%	1%	2%
grade 7 events	51857	51575	58994	56697	57328
	85%	83%	87%	84%	86%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-01236	ACIS-01236	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	25.015145	24.99050677679563	Alternating exposures requested	N	N
Pointing Dec	-5.905293	-5.893077185535116	Primary exposure time	0.000000	3.1
Pointing Roll	123.183299	123.3894608140372			
SIM focus pos (mm)	-0.782348	-0.7809083437167272			
SIM defocus (mm)	0	0.001439871863259334			
SIM translation stage pos (mm)	-229.442463	-229.4438428438578			
SIM translation stage offset (mm)	-4.15	-4.148610159071865			
Observation start time	202698442.184000	202697293.9858			
Observation start date	2004-06-04T01:06:18	2004-06-04T00:48:13			
Observation end time	202708642.184000	202709432.03634			
Observation end date	2004-06-04T03:56:18	2004-06-04T04:10:32			
Read mode	TIMED	TIMED			

## 2.3 Aspect





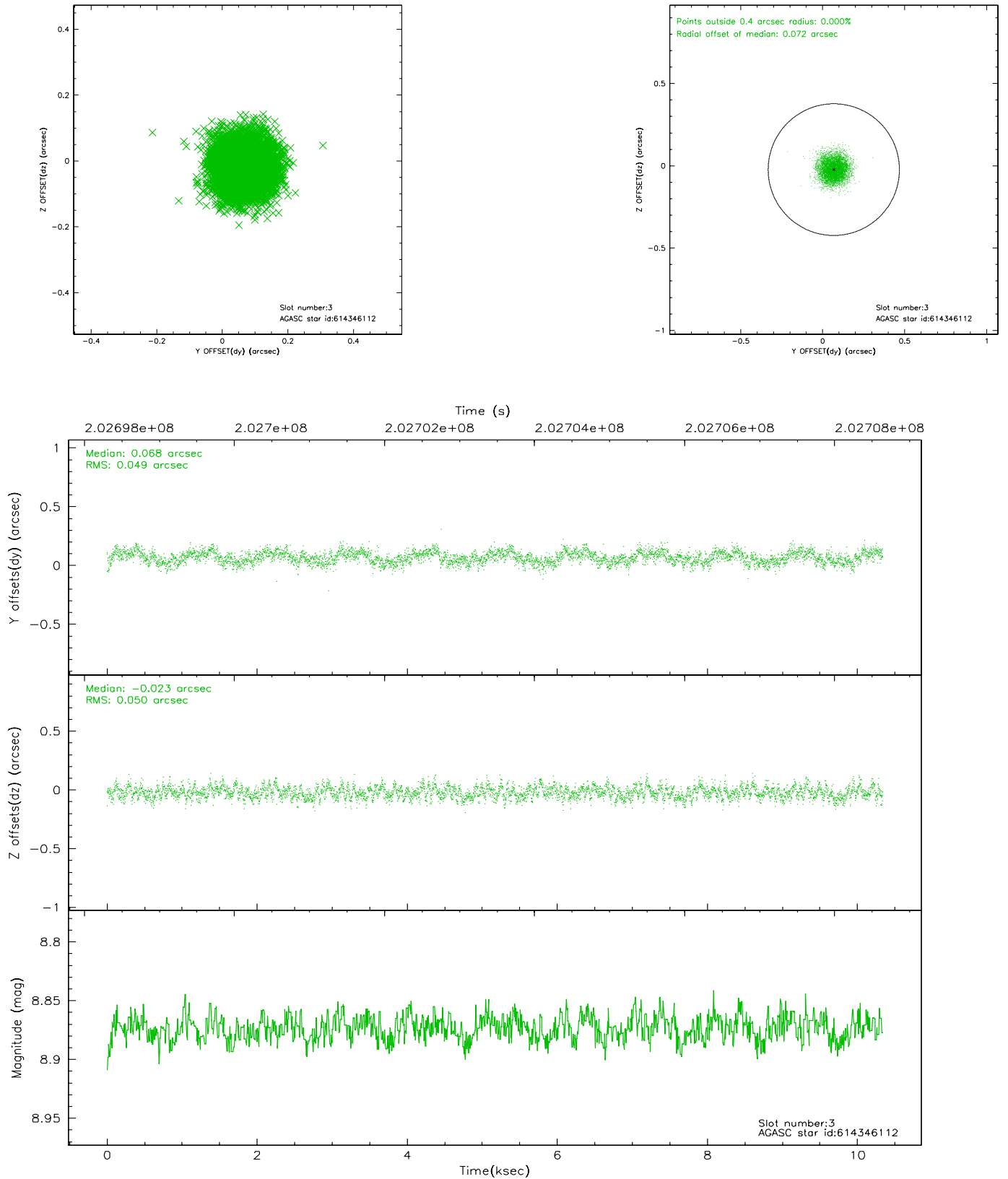
### Slot Statistics

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	2521	0.053	-0.004	0.012	0.024	0.000000	0.000000	932.70	-919.16
1	FID	ACIS-I-5	7.22	2521	-0.158	0.076	0.012	0.020	0.000000	0.000000	-1815.30	978.17
2	FID	ACIS-I-6	7.25	2521	0.015	0.000	0.012	0.019	0.000000	0.000000	397.71	1623.14
3	GUIDE	614346112	8.87	5042	0.068	-0.023	0.075	0.117	25.317381	-6.037294	-990.12	-645.10
4	GUIDE	614346992	8.54	5042	-0.118	0.105	0.059	0.097	25.244875	-5.403615	1060.68	-1676.71
5	GUIDE	614350984	9.45	5039	-0.107	-0.072	0.085	0.137	24.289818	-5.710471	2007.50	1791.83
6	GUIDE	614351496	8.14	5038	-0.012	0.154	0.064	0.100	25.217205	-6.162663	-1171.01	-97.21
7	GUIDE	614336552	9.23	5039	0.168	-0.161	0.086	0.137	25.065470	-6.628544	-2277.96	1274.74

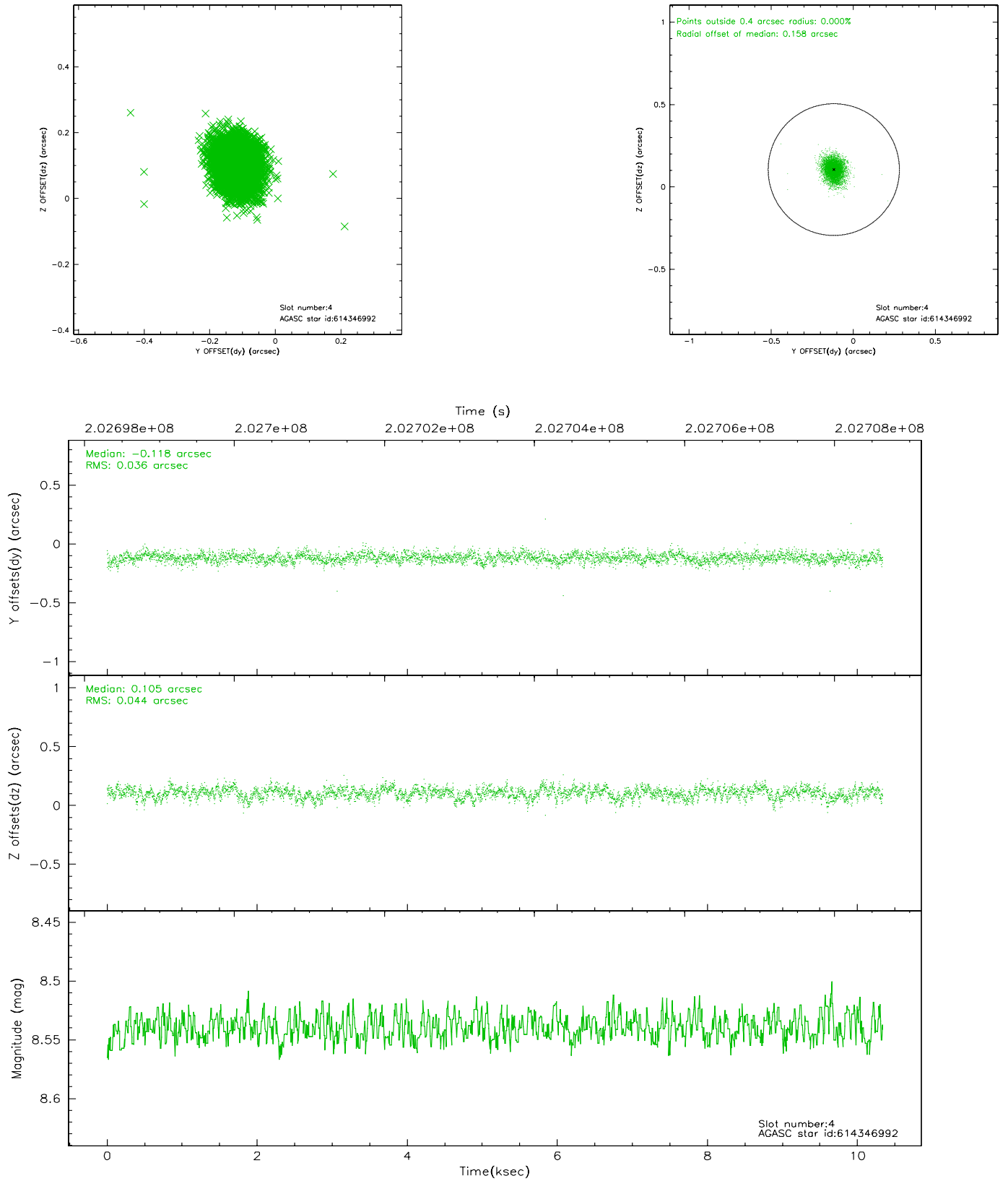


## 2.4 Star Slots

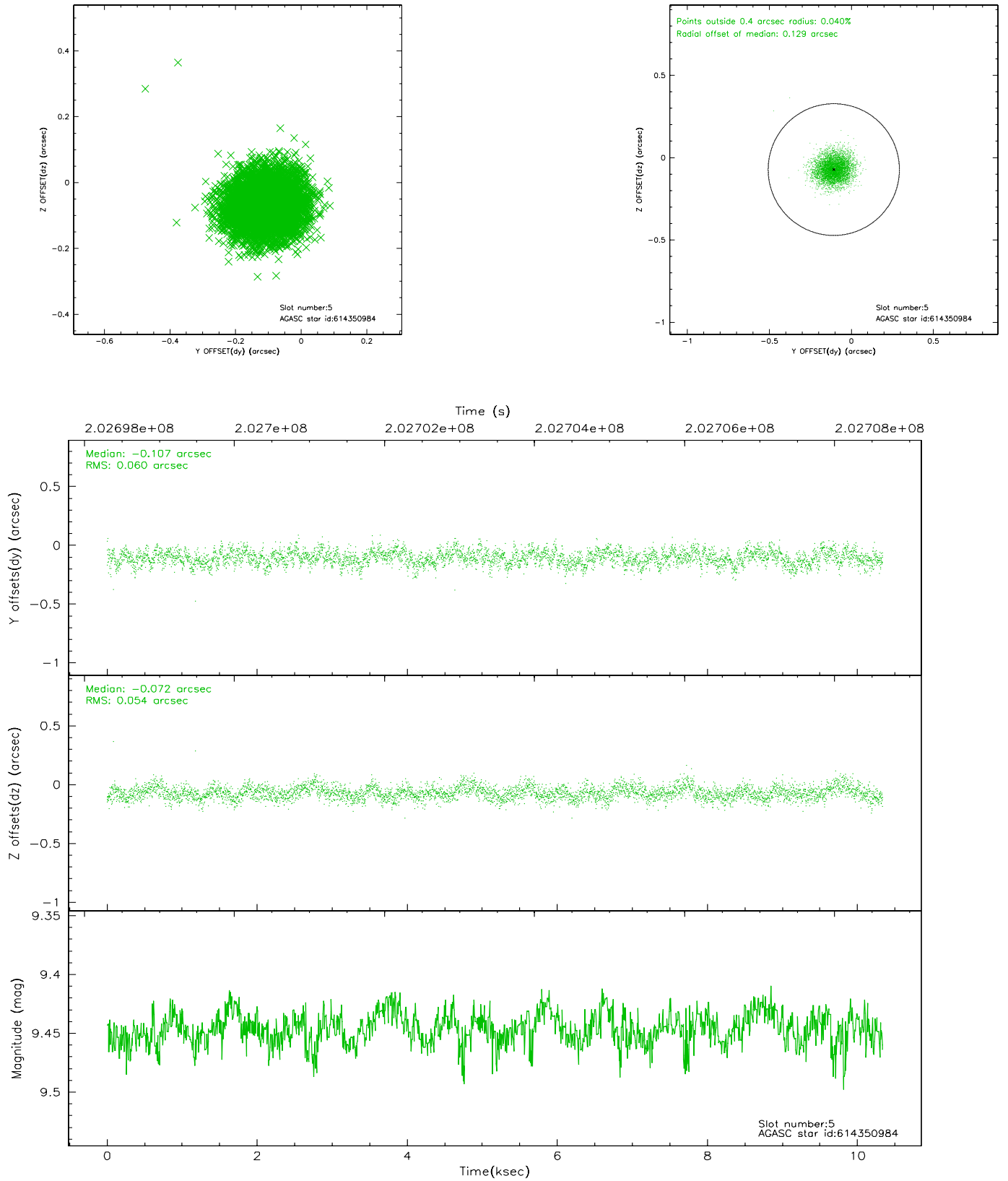
### 2.4.1 Slot 3



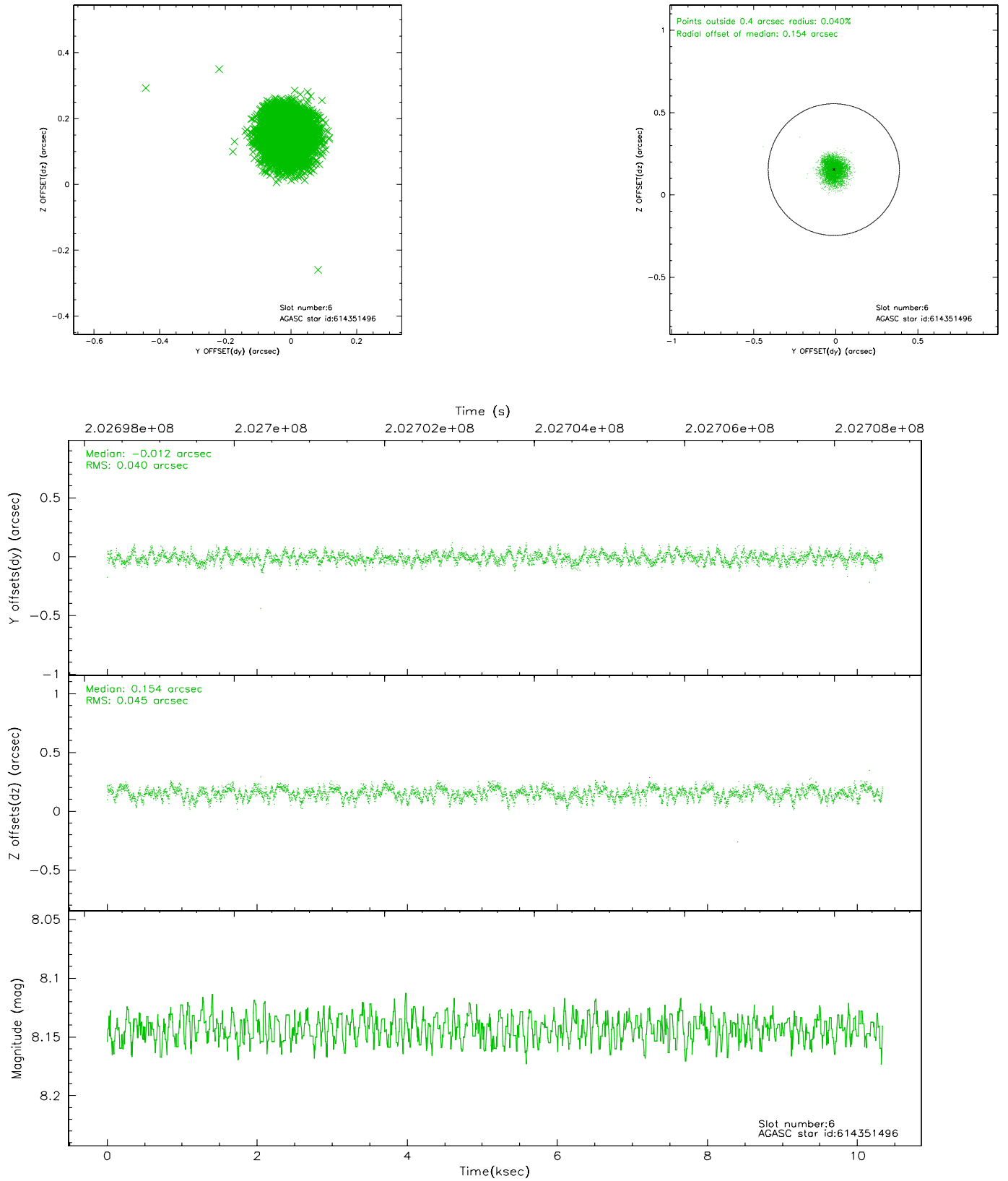
## 2.4.2 Slot 4



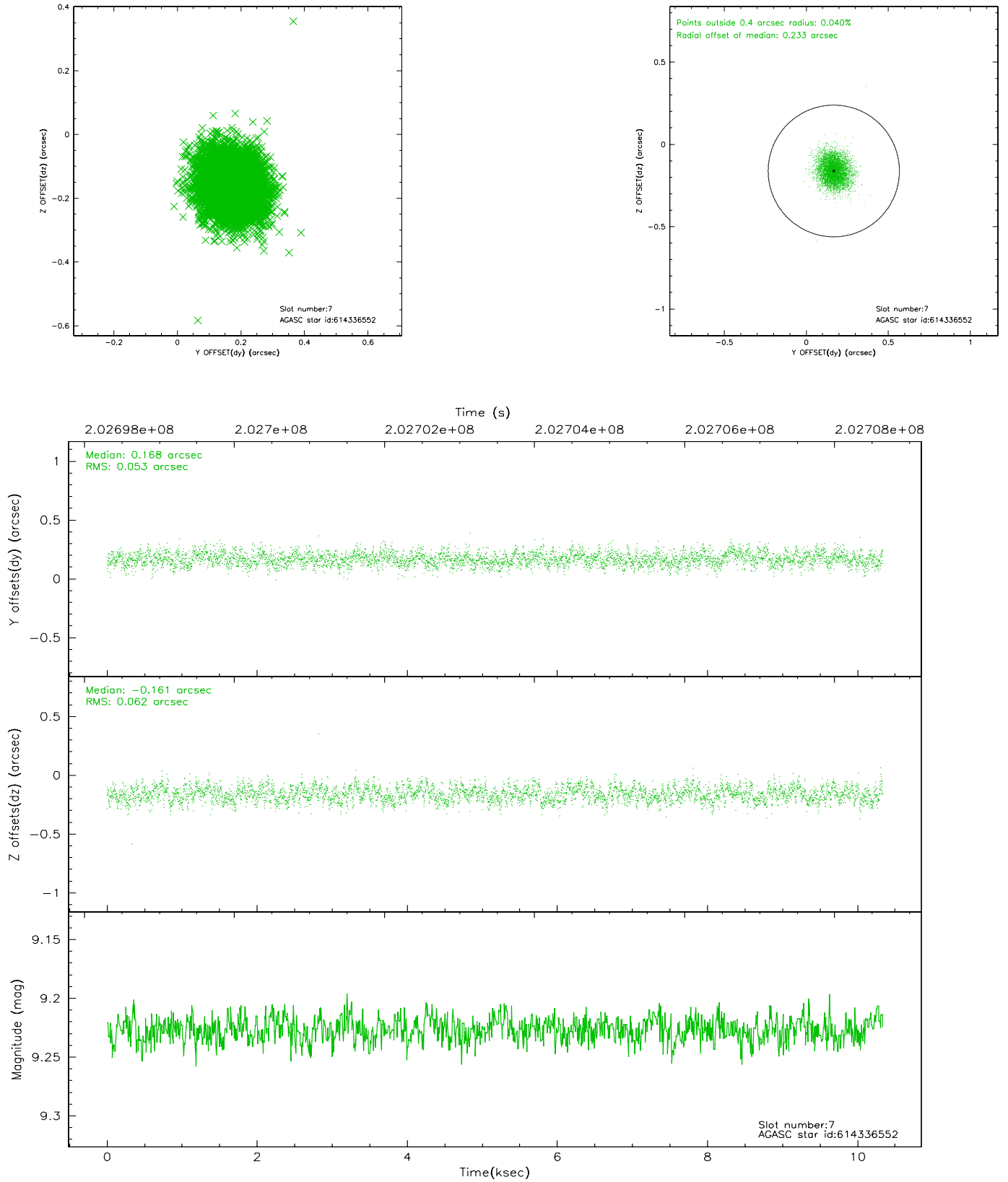
### 2.4.3 Slot 5



## 2.4.4 Slot 6

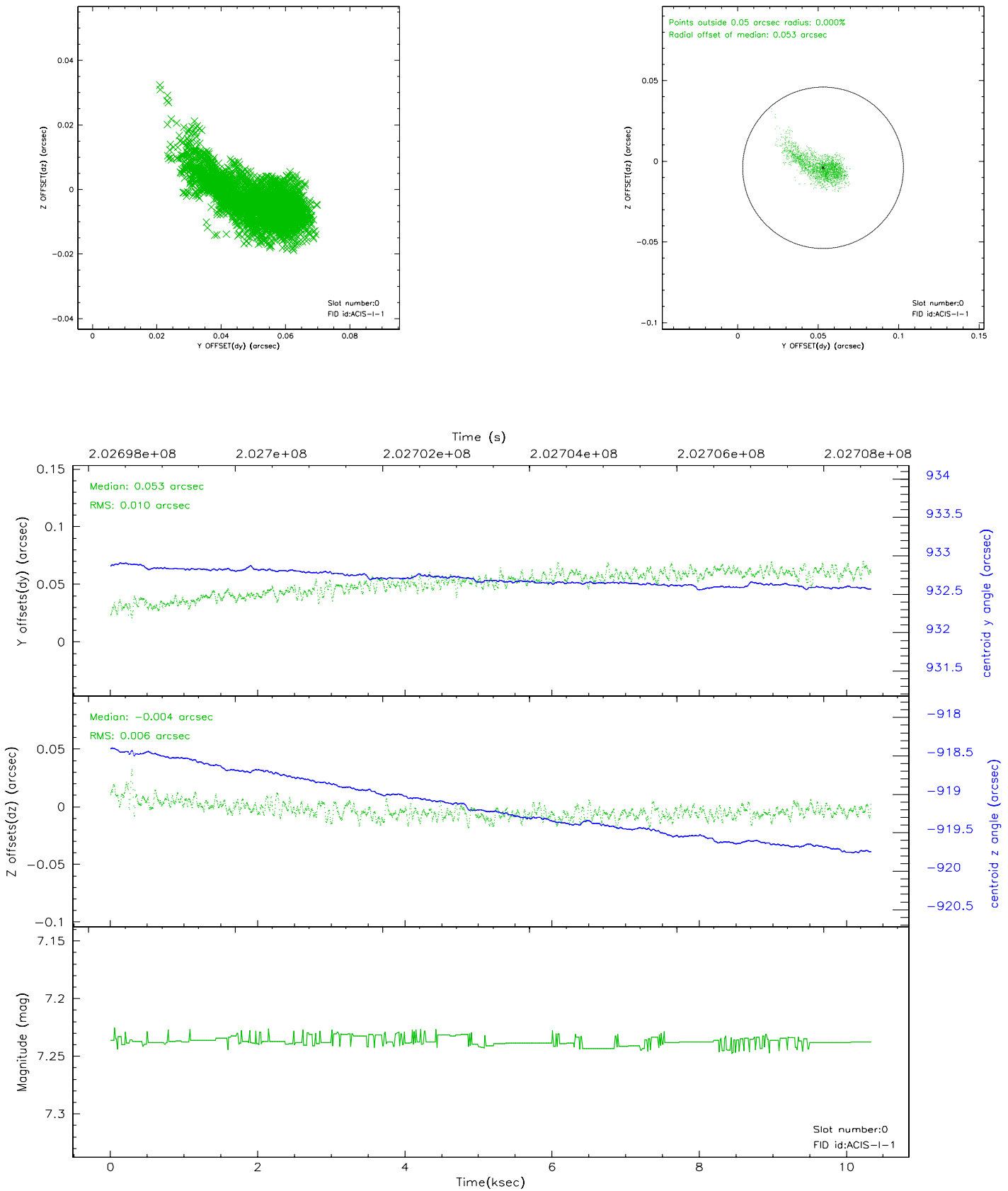


## 2.4.5 Slot 7

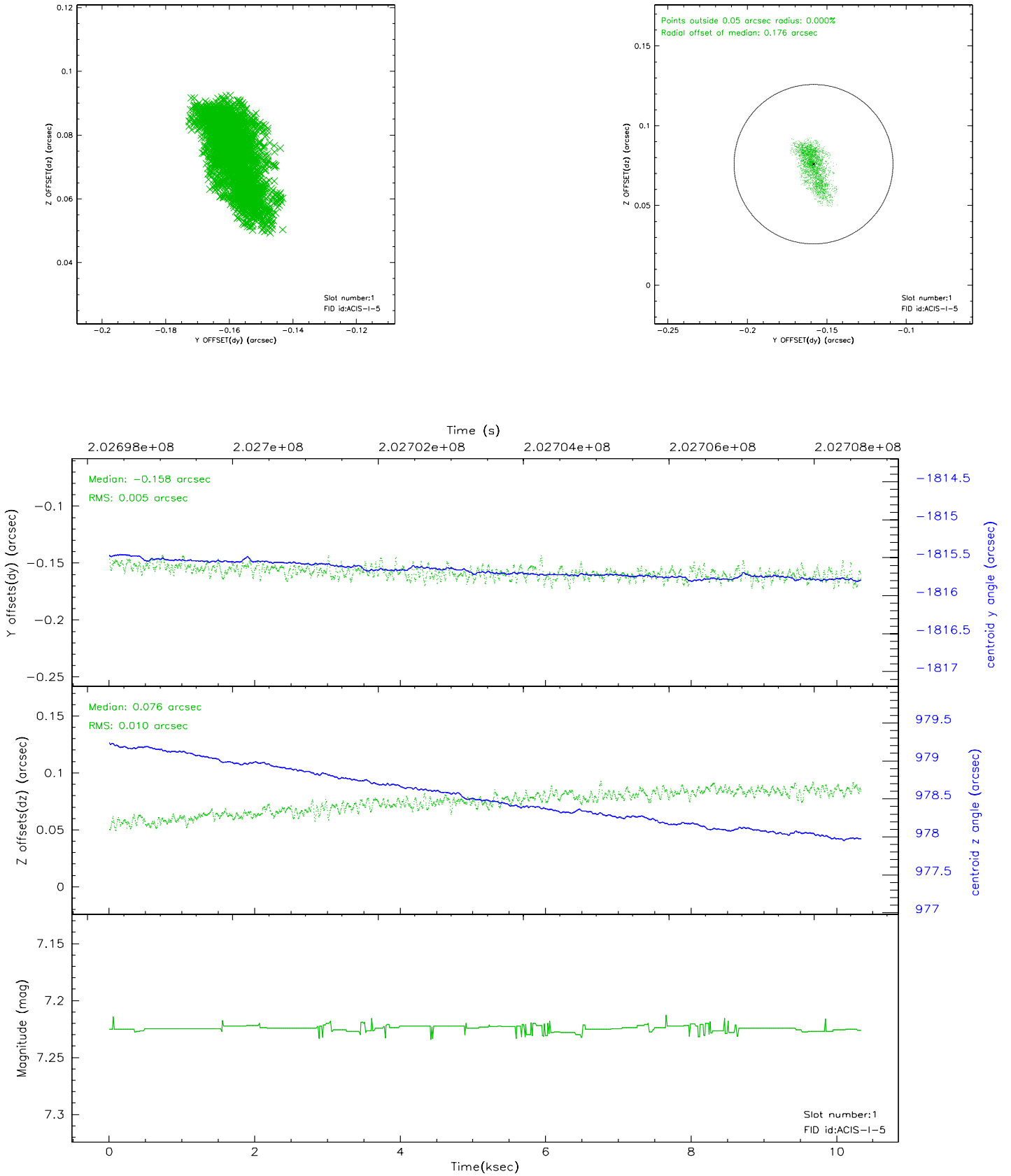


## 2.5 FID Slots

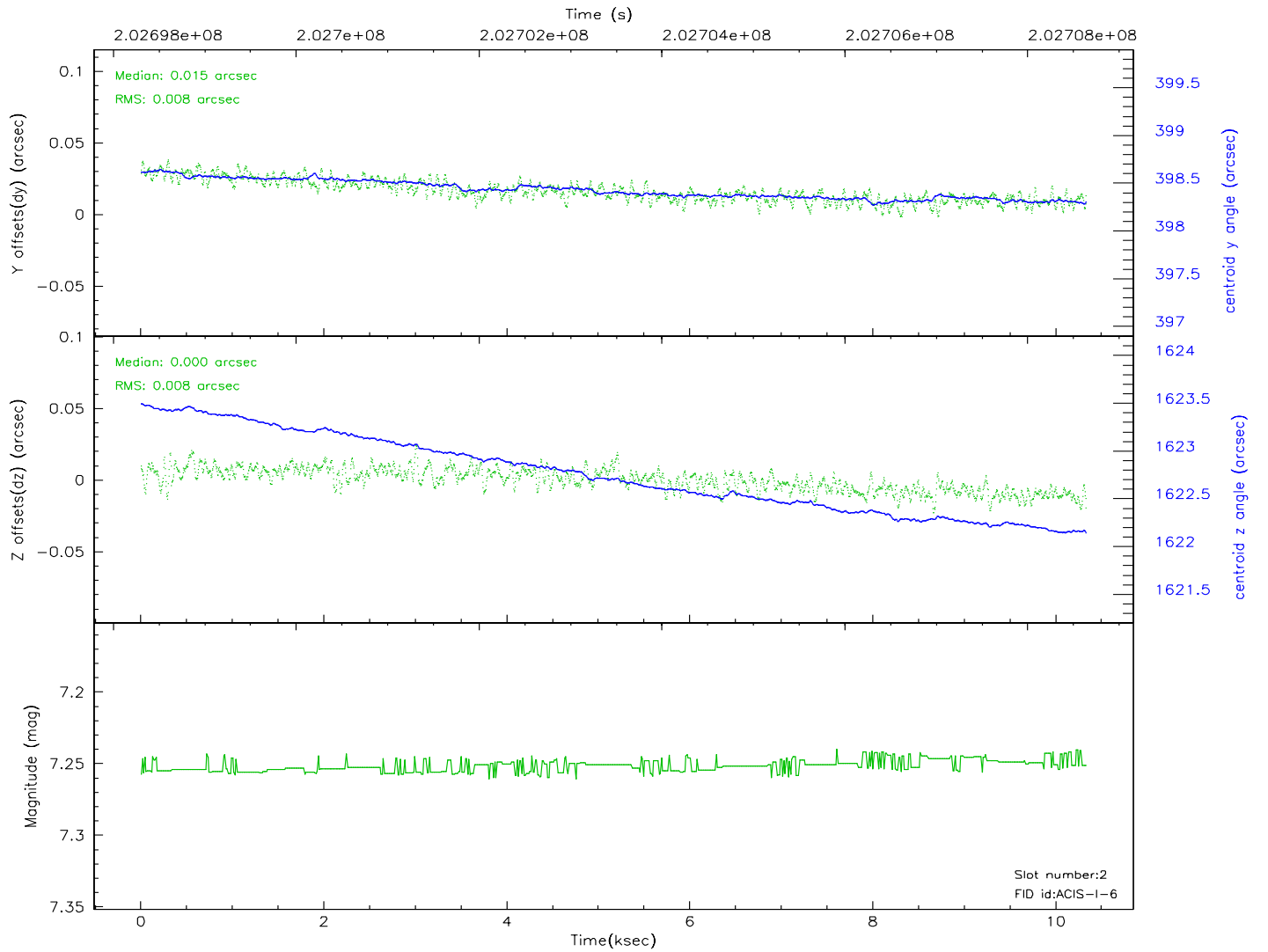
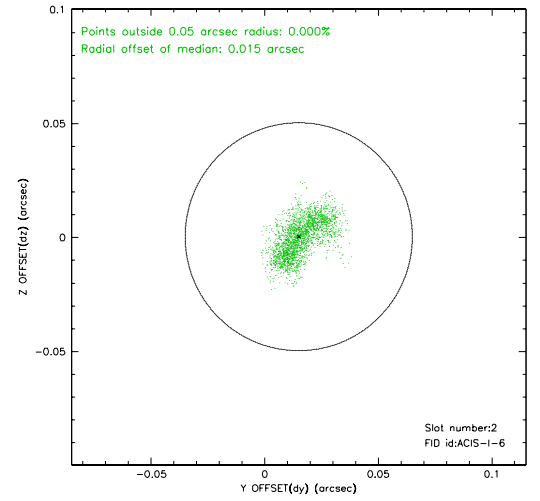
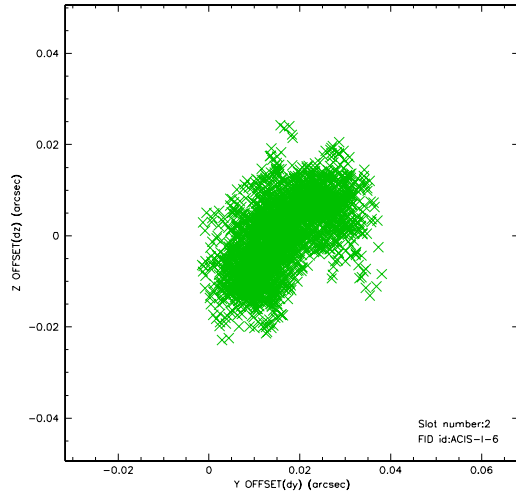
### 2.5.1 Slot 0



## 2.5.2 Slot 1

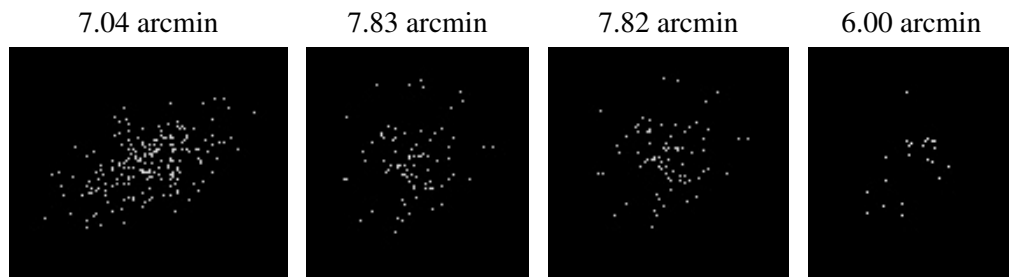


### 2.5.3 Slot 2





### 3 Point Sources



## A Summary

### A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2006.05.01
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.332

### A.2 Comments