

# V&V Reference Report

## L2 ASCDS Version : 7.6.7.2

Observation 4686 - L2 Version 001  
Chandra X-Ray Center

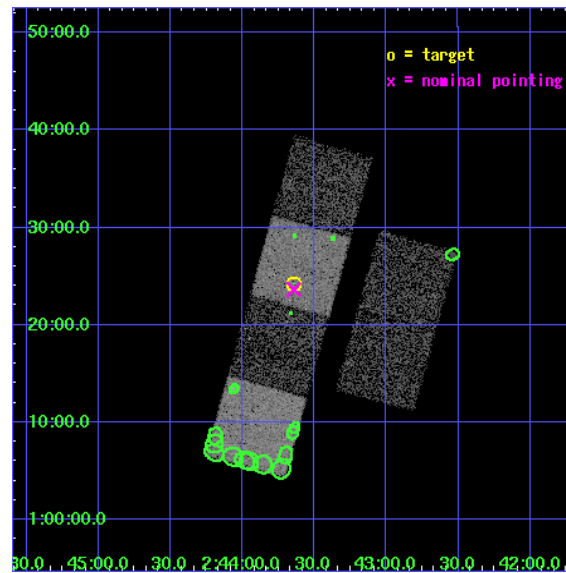
L2 Processing Date : Jun 4 2006

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# 1 Front

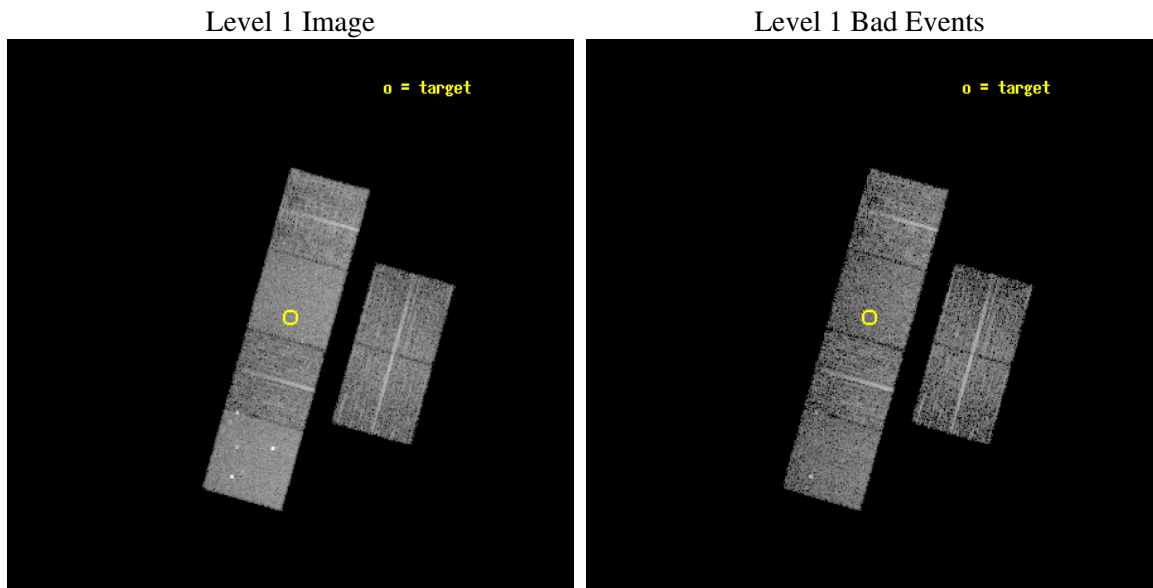
seq_num	600341
obs_id	4686
title	Locating Ultraluminous X-Ray Sources
observer	Prof. Philip Kaaret
object	NGC 1073 ULX
dtcycle	0
cycle	P
ra_targ	40.909583
dec_targ	1.403611
ra_nom	40.910556151317
dec_nom	1.3939587236095
roll_nom	285.59755618015
revision	2
ontime	5811.1999783516
livetime	5737.6150651412
ontime2	5811.1999783516
ontime3	5811.1999783516
ontime5	5811.1999783516
ontime6	5811.1999783516
ontime7	5811.1999783516
ontime8	5811.1999783516
l2events	56856



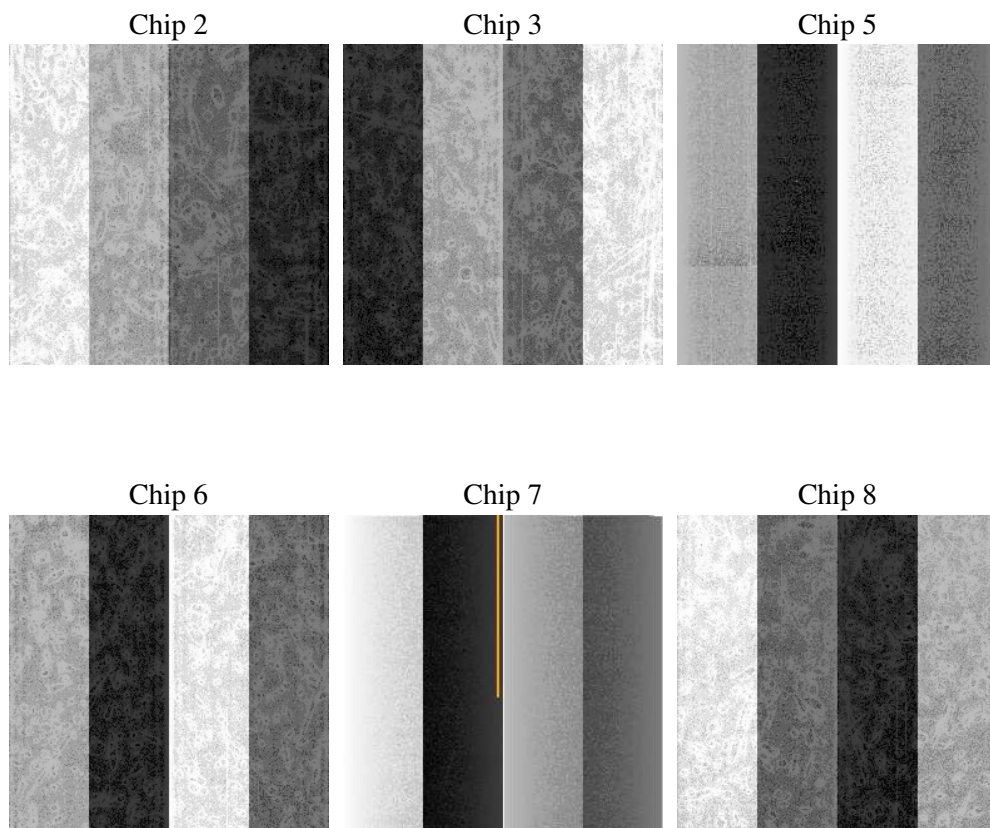
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0
ascdsver	7.6.7.2
caldbver	3.2.2
date	2006-06-04T16:20:40
revision	2

sched_exp_time	5673.000000
ontime	5820.8356846571
ontime2	5820.8356846571
ontime3	5820.8356846571
ontime5	5820.8356846571
ontime6	5820.8356647491
ontime7	5820.8356846571
ontime8	5820.8356846571
l1events	260263

### 2.1.4 Events

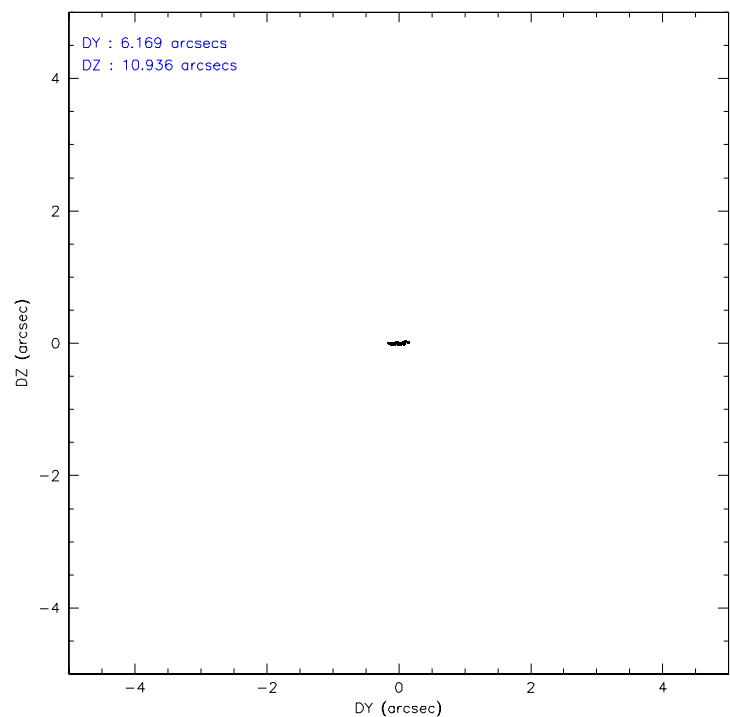
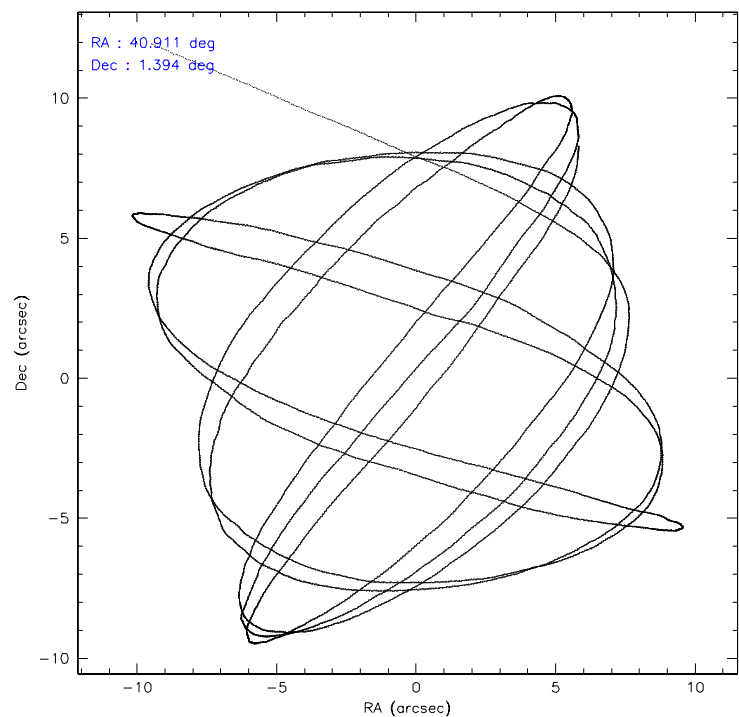
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	36563	34671	56474	36682	50065	45808
rejected events	32140	30467	30862	32280	30697	36294
rejected %	87%	87%	54%	87%	61%	79%

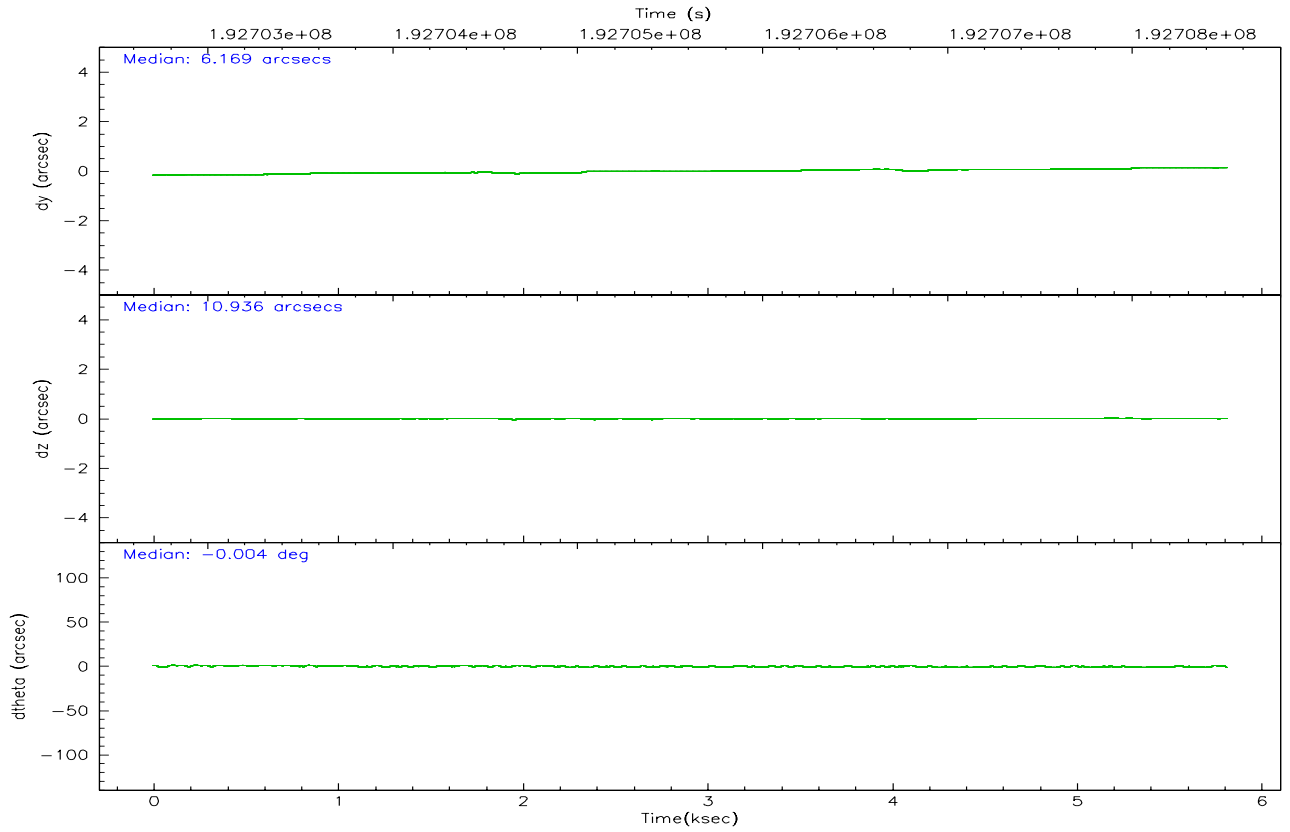
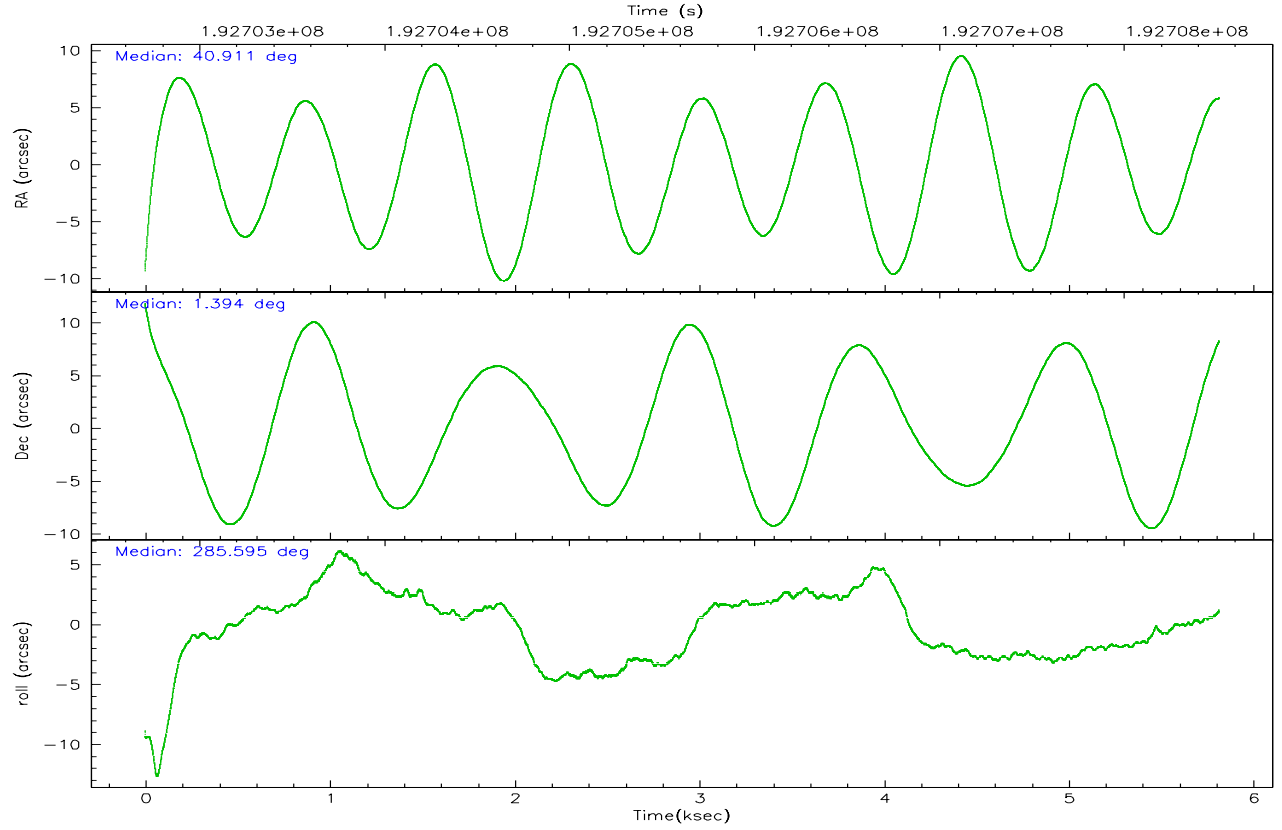
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	1958	1804	3344	1776	1230	3018
	5%	5%	5%	4%	2%	6%
grade 1 events	22	25	127	18	27	25
	0%	0%	0%	0%	0%	0%
grade 2 events	883	841	7671	891	4772	2040
	2%	2%	13%	2%	9%	4%
grade 3 events	424	420	559	433	1062	1044
	1%	1%	0%	1%	2%	2%
grade 4 events	442	435	470	436	984	931
	1%	1%	0%	1%	1%	2%
grade 5 events	1446	1555	2677	1602	3425	2151
	3%	4%	4%	4%	6%	4%
grade 6 events	730	709	13614	872	11346	2499
	1%	2%	24%	2%	22%	5%
grade 7 events	30658	28882	28012	30654	27219	34100
	83%	83%	49%	83%	54%	74%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-235678	ACIS-235678	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	40.890797	40.9105561513168	Alternating exposures requested	N	N
Pointing Dec	1.412774	1.393958723609466	Primary exposure time	0.000000	3.2
Pointing Roll	285.441411	285.5975561801467			
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	192702842.184000	192701789.77123			
Observation start date	2004-02-09T08:32:58	2004-02-09T08:16:29			
Observation end time	192708515.184000	192709787.84658			
Observation end date	2004-02-09T10:07:31	2004-02-09T10:29:47			
Read mode	TIMED	TIMED			

## 2.3 Aspect





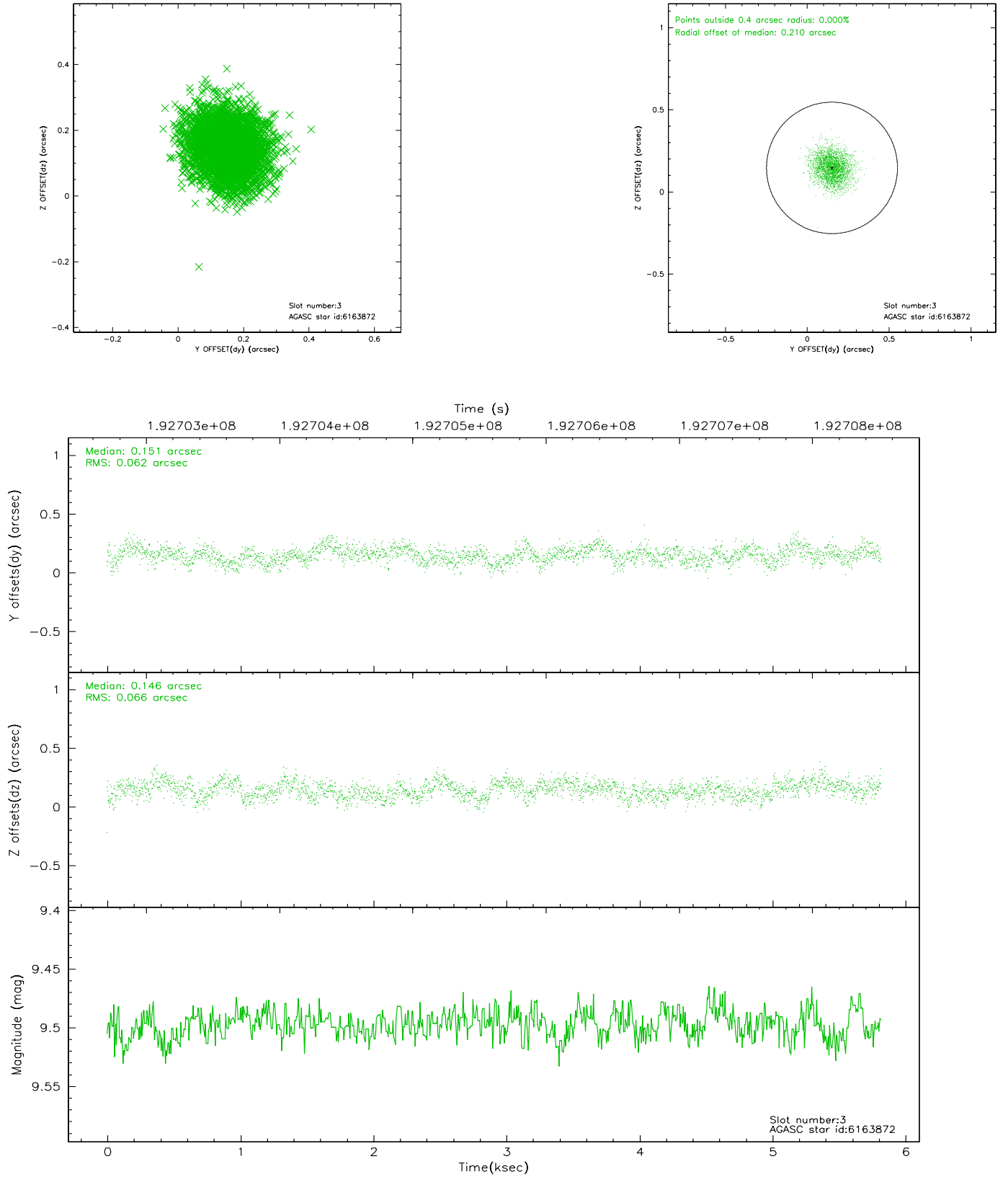
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.18	1419	0.006	-0.049	0.007	0.012	0.000000	0.000000	937.10	-1727.91
1	FID	ACIS-S-2	7.10	1420	-0.046	0.003	0.005	0.009	0.000000	0.000000	-758.28	-1733.42
2	FID	ACIS-S-4	7.20	1419	0.014	0.052	0.005	0.009	0.000000	0.000000	2153.93	175.26
3	GUIDE	6163872	9.50	2823	0.151	0.146	0.097	0.153	41.133772	1.508696	-100.18	935.08
4	GUIDE	6164136	9.25	2839	0.054	0.203	0.084	0.134	41.344068	1.447309	314.31	1605.99
5	GUIDE	6165200	9.64	2836	-0.004	-0.038	0.106	0.177	40.816423	1.985214	-2057.58	291.36
6	GUIDE	6167416	9.87	2834	0.171	0.117	0.103	0.170	41.158447	1.321640	571.99	841.50
7	GUIDE	6166328	7.49	2838	-0.372	-0.429	0.054	0.086	40.139957	1.866308	-2293.79	-2169.51

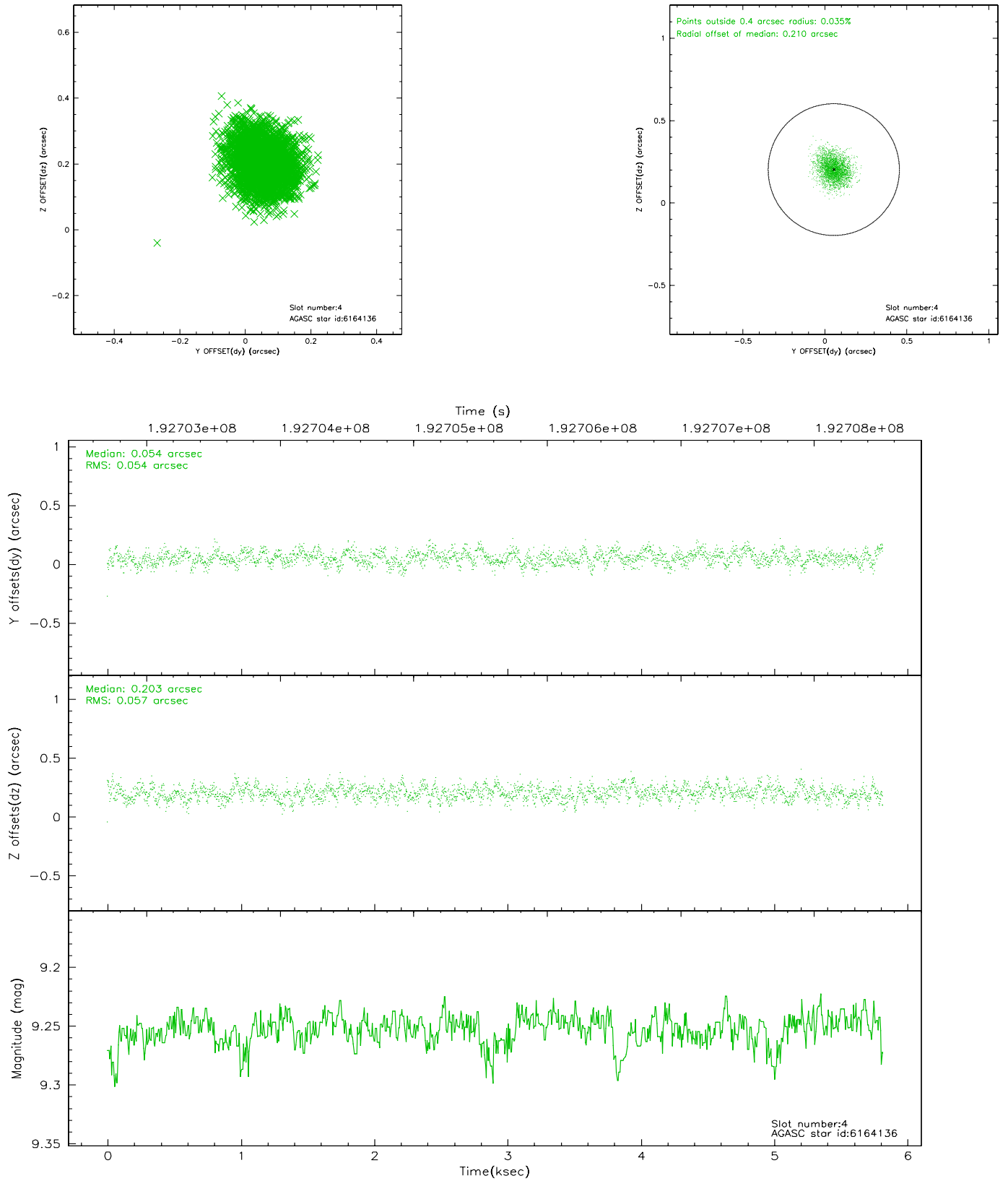


## 2.4 Star Slots

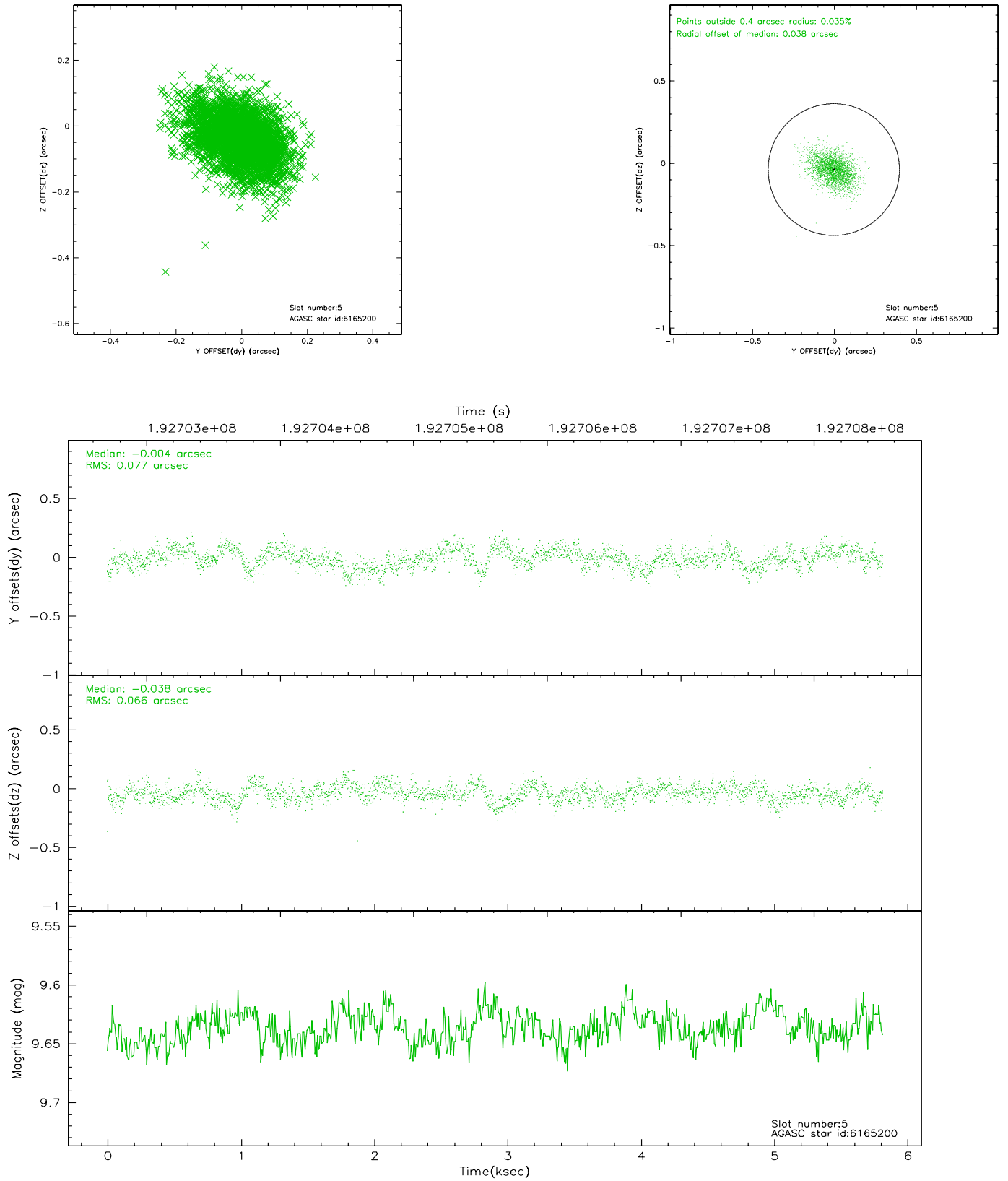
### 2.4.1 Slot 3



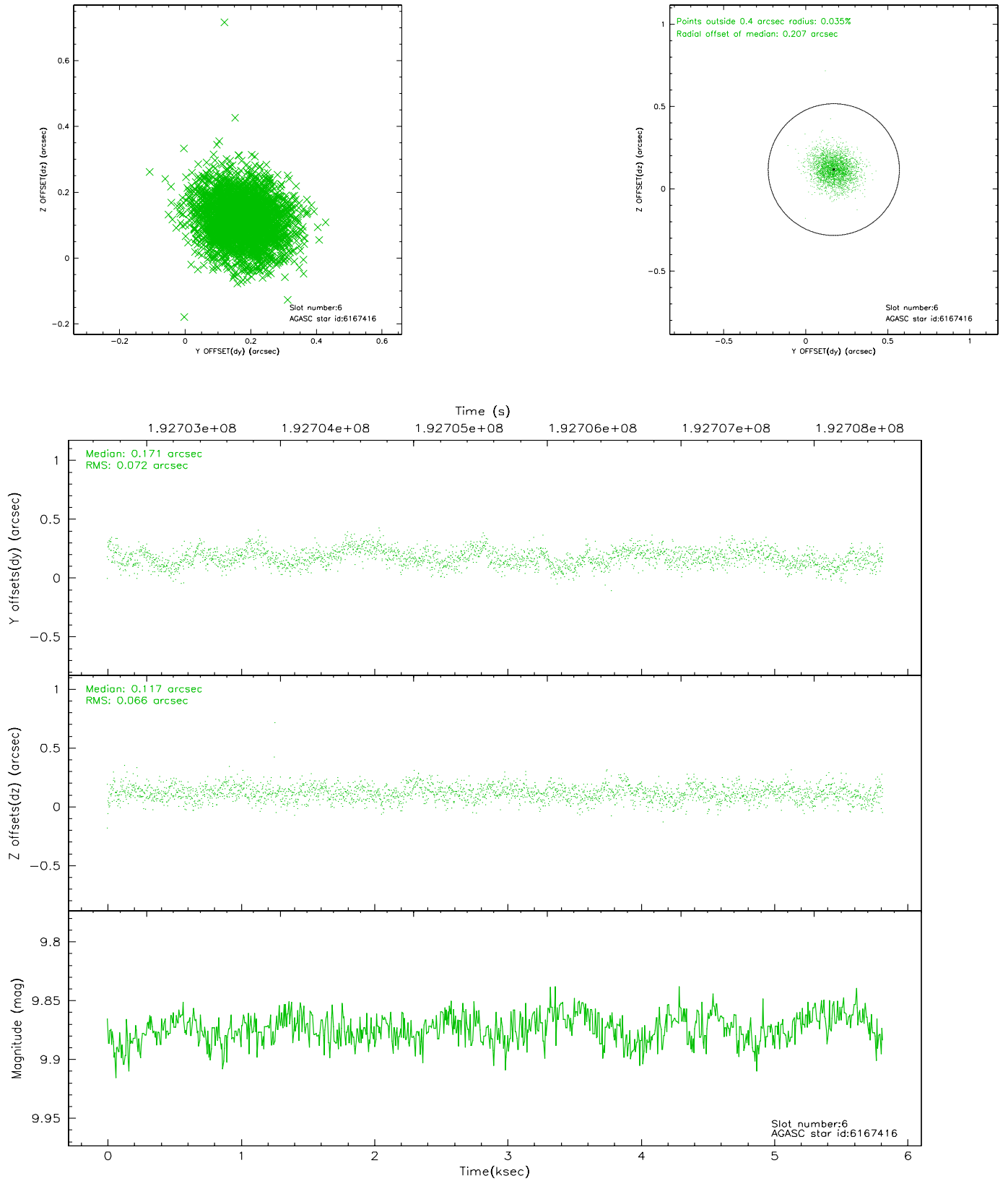
## 2.4.2 Slot 4



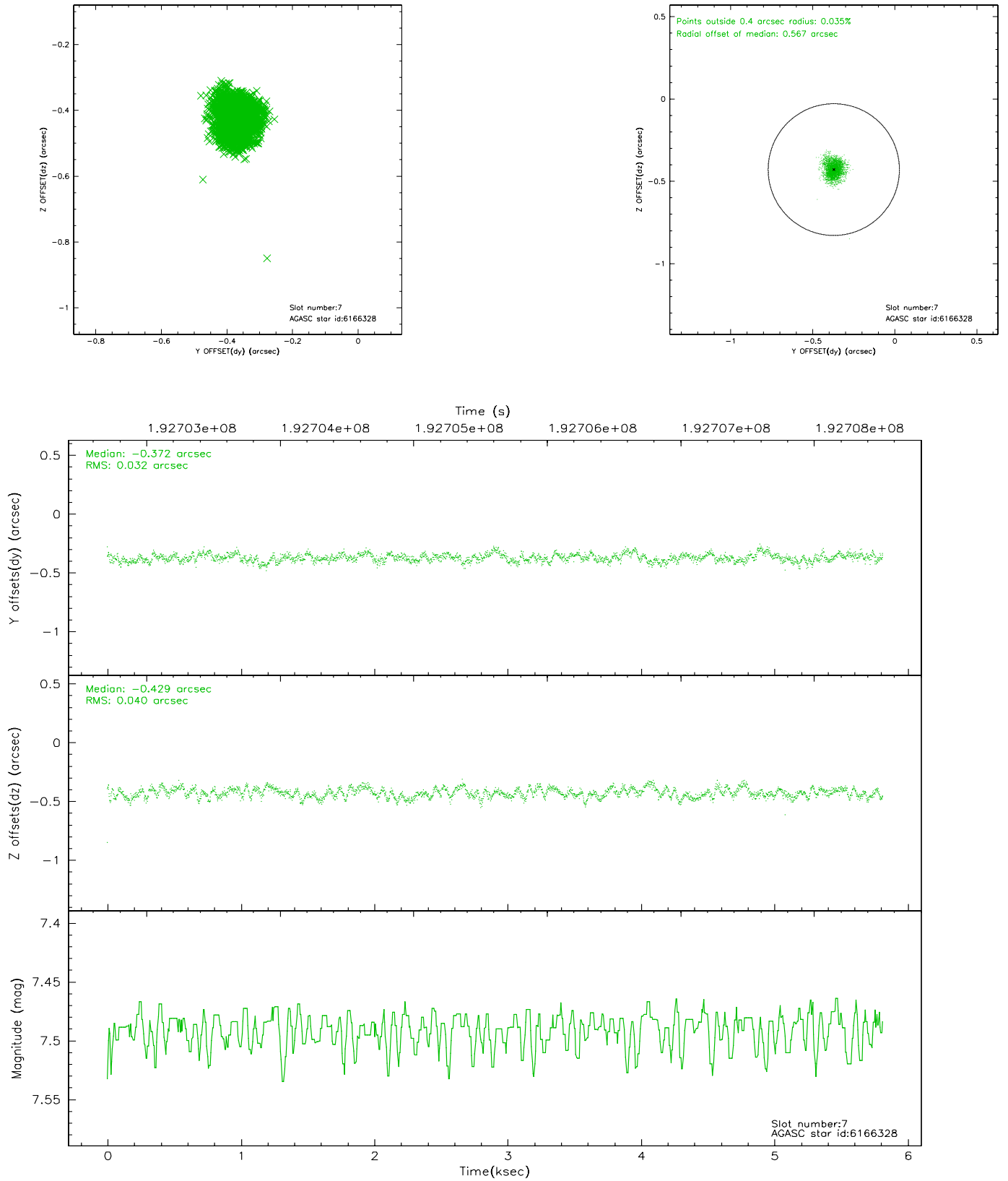
### 2.4.3 Slot 5



## 2.4.4 Slot 6

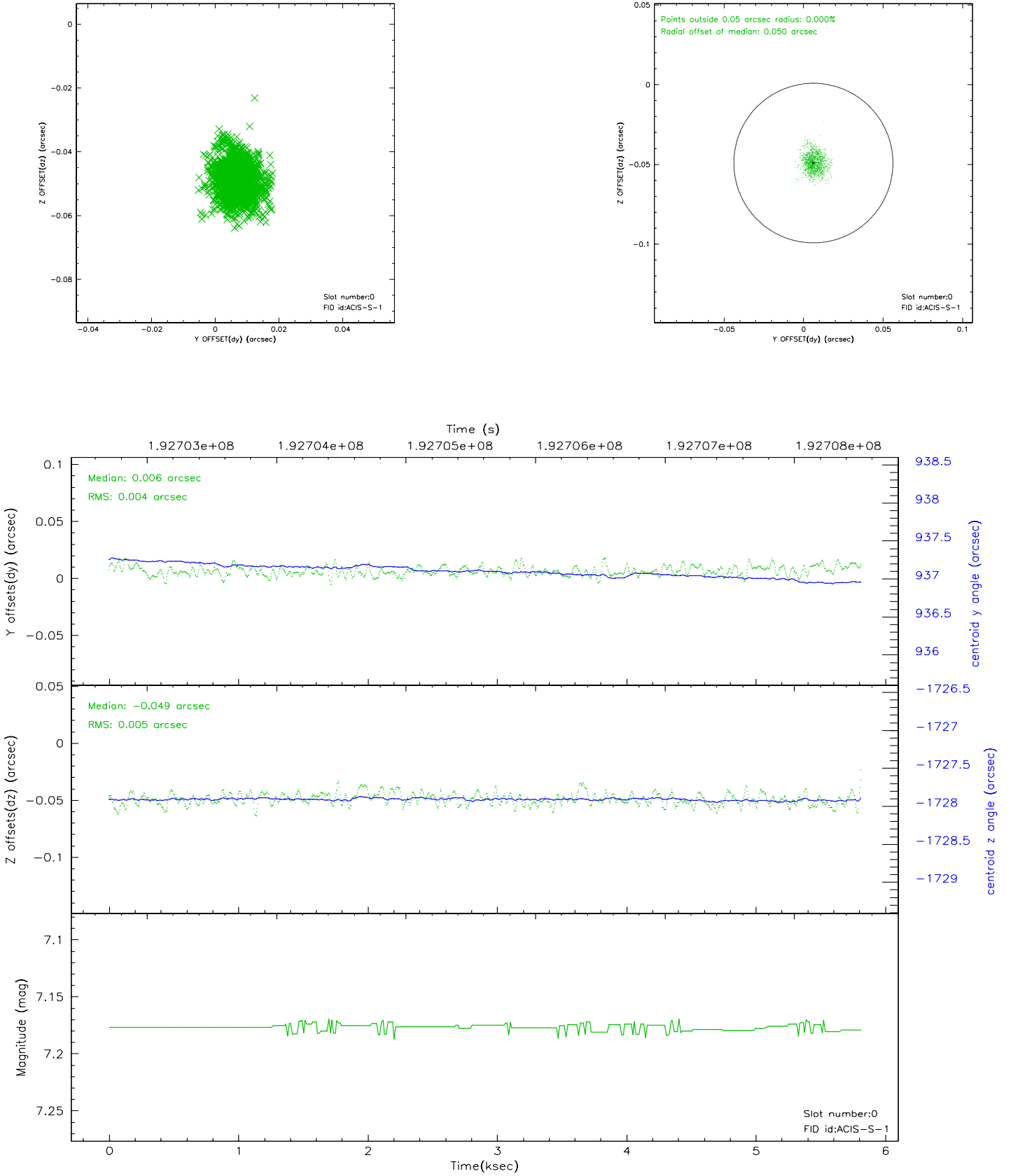


## 2.4.5 Slot 7

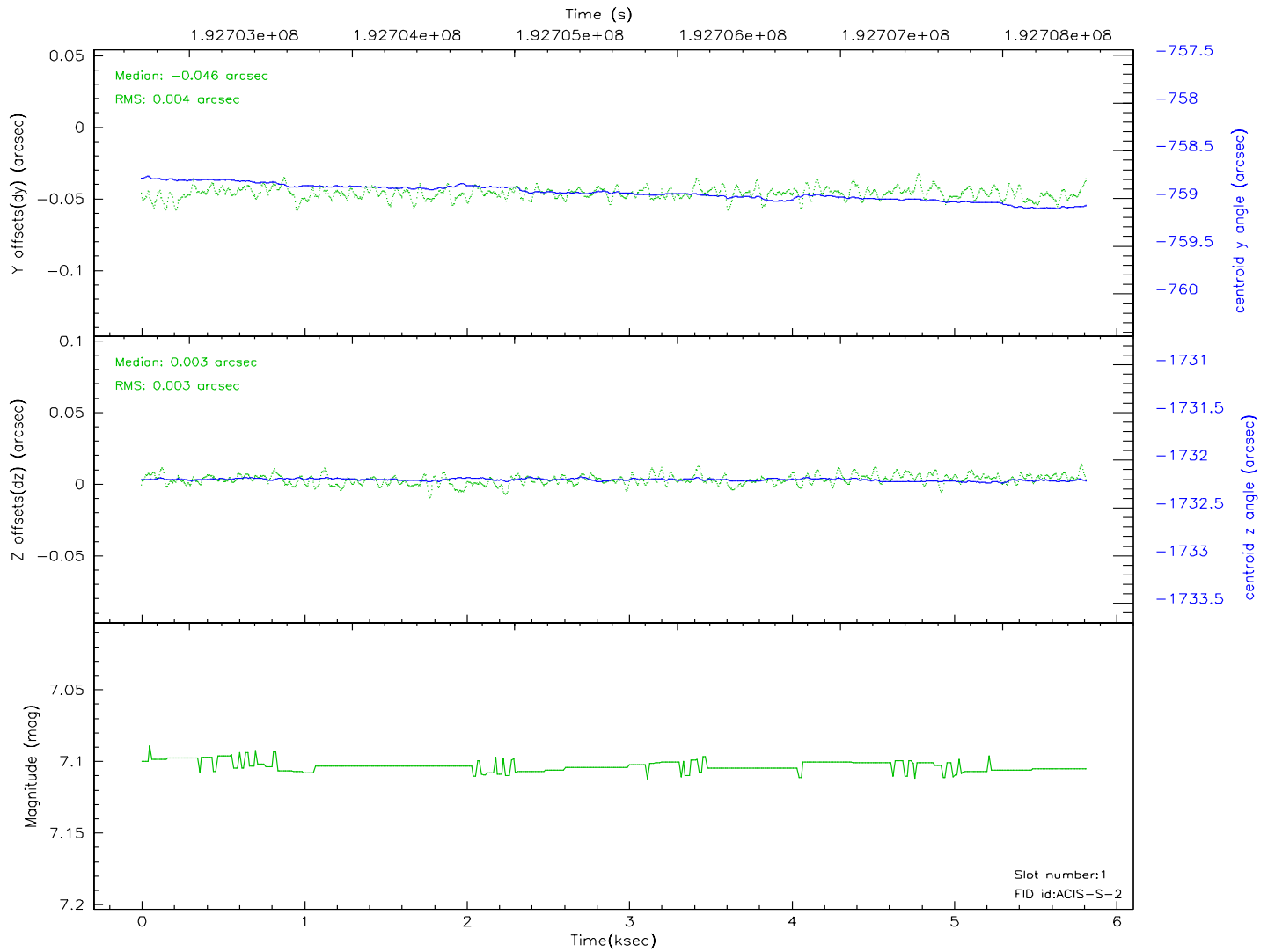
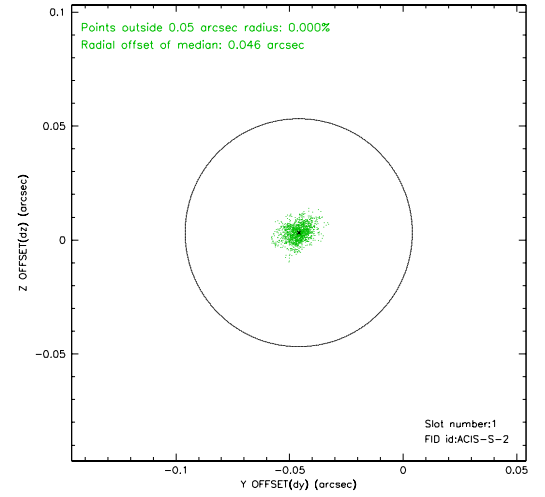
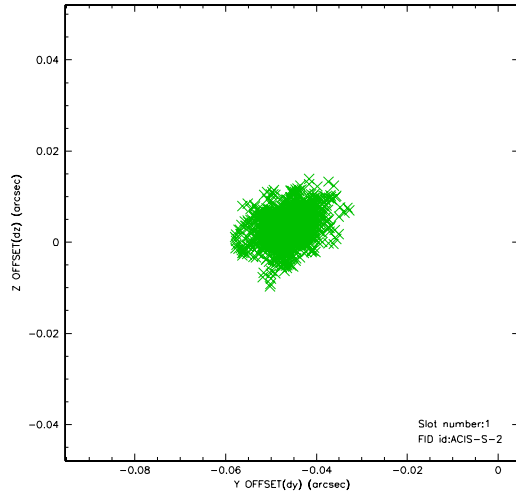


## 2.5 FID Slots

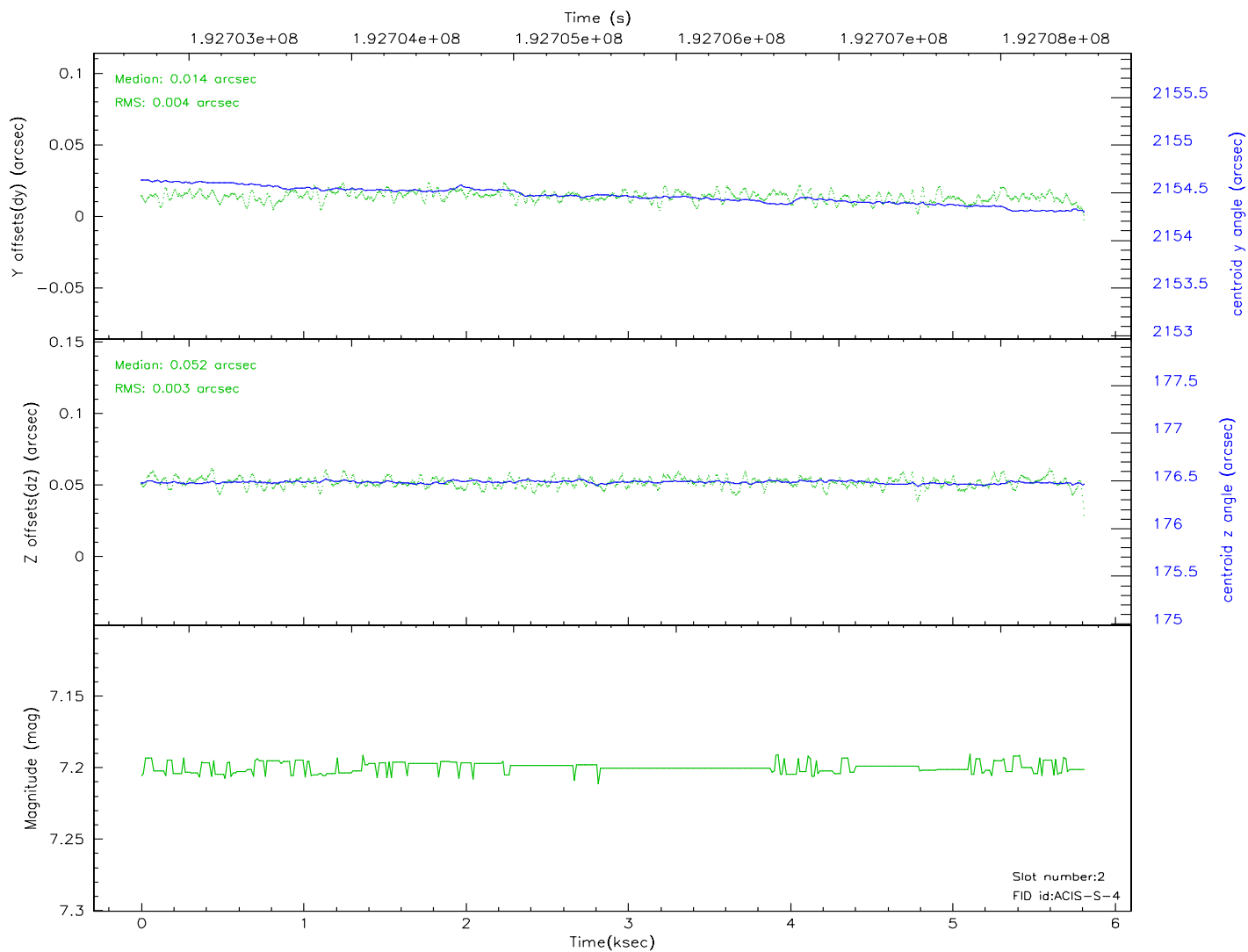
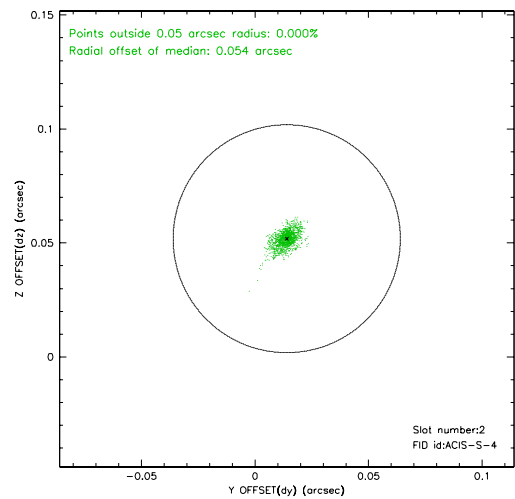
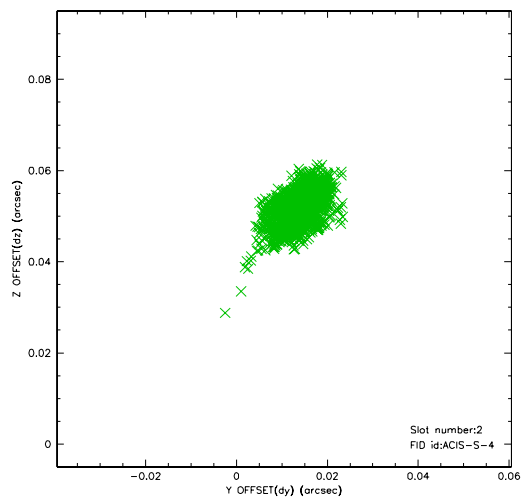
### 2.5.1 Slot 0



## 2.5.2 Slot 1

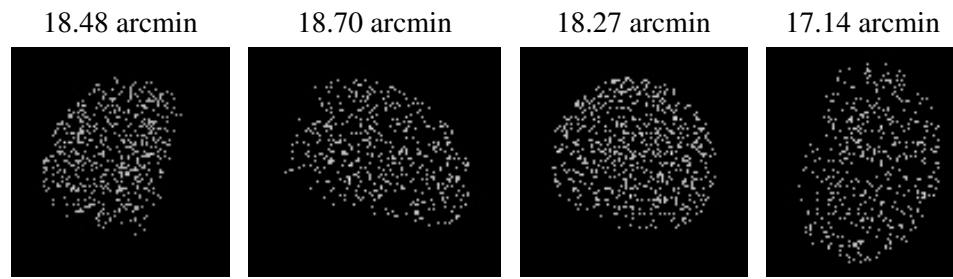


## 2.5.3 Slot 2





### 3 Point Sources



## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2006.06.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.811

### A.2 Comments