

# V&V Reference Report

## L2 ASCDS Version : 7.6.9

Observation 1652 - L2 Version 001  
Chandra X-Ray Center

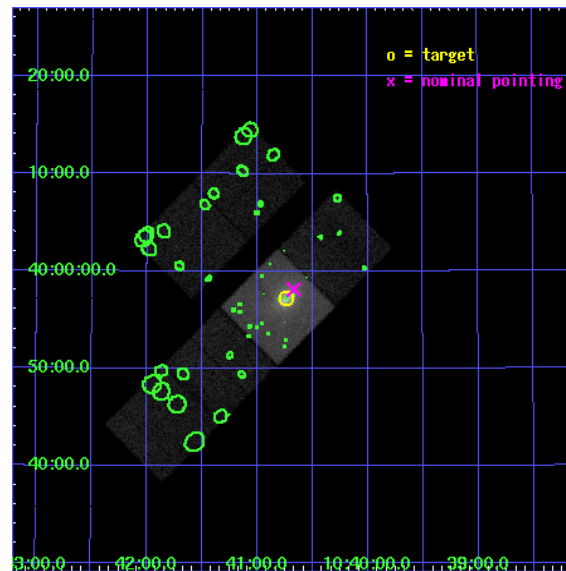
L2 Processing Date : Nov 6 2006

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# 1 Front

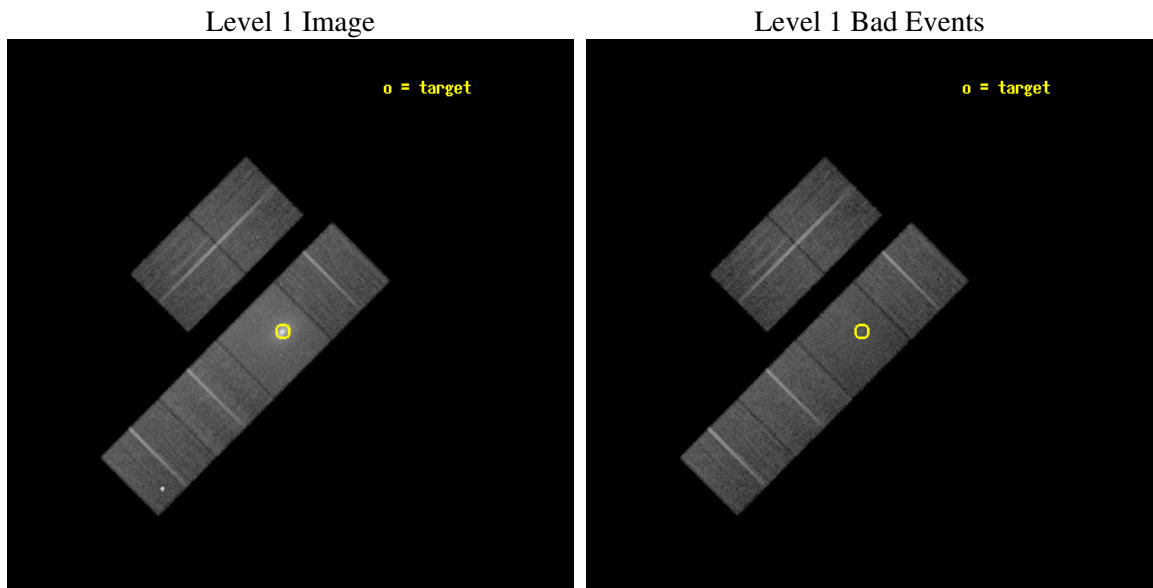
seq_num	800120
obs_id	1652
title	CHANDRA OBSERVATIONS OF THE COOLING FLOW CLUSTER ABELL 1068
observer	Dr. Stephen Murray
object	ABELL 1068
dtcycle	0
cycle	P
ra_targ	160.185
dec_targ	39.952833
ra_nom	160.16744359278
dec_nom	39.968838788286
roll_nom	134.93289893072
revision	2
ontime	27172.199975461
livetime	26838.427531254
ontime2	27165.518054888
ontime3	27172.199975461
ontime6	27172.199975461
ontime7	27172.199975461
ontime8	27172.199975461
ontime9	27172.199975461
l2events	230347



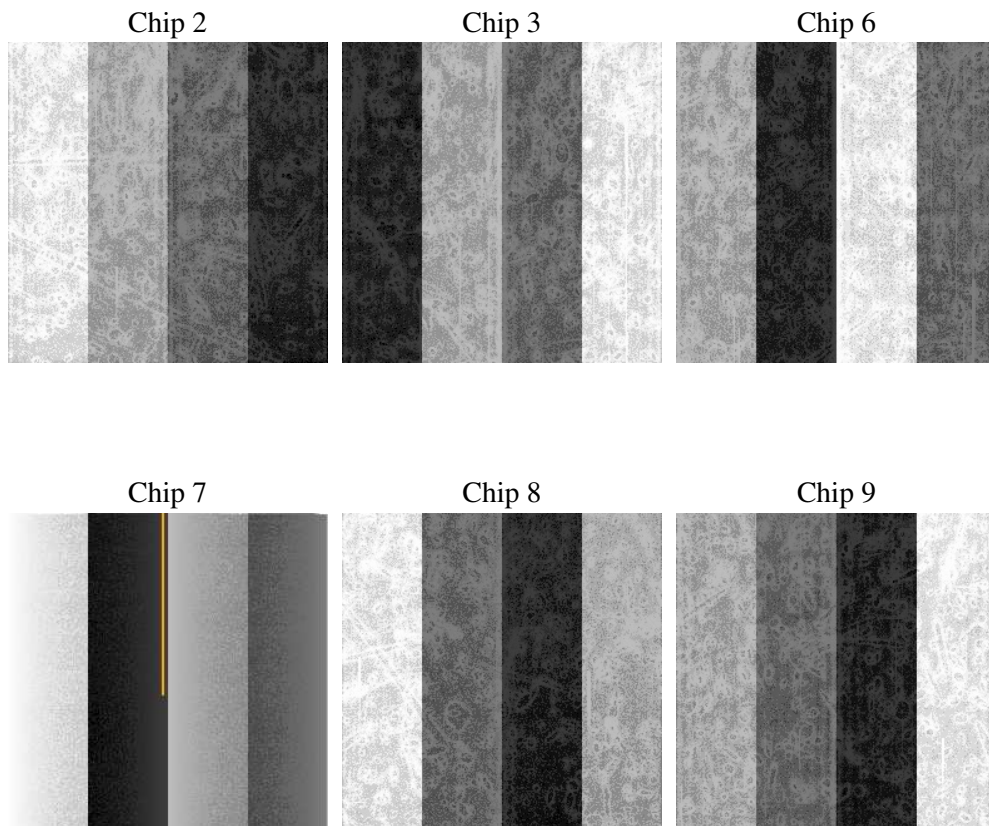
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0
ascdsver	7.6.9
caldsver	3.2.3
date	2006-11-06T12:59:53
revision	2

sched_exp_time	27000.000000
ontime	28071.103791565
ontime2	27997.601070985
ontime3	28004.285642639
ontime6	28007.626662716
ontime7	28071.103791565
ontime8	28007.626662716
ontime9	28000.944602638
l1events	1180512

### 2.1.4 Events

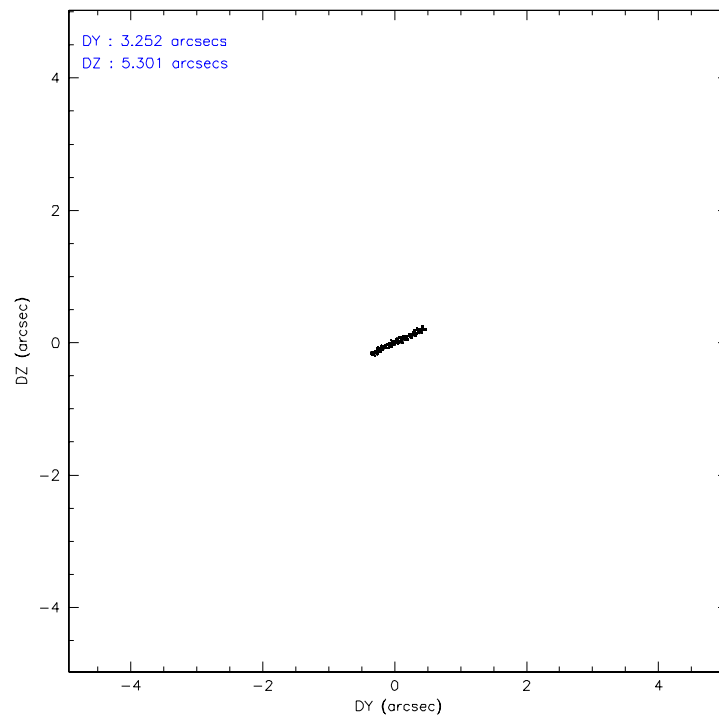
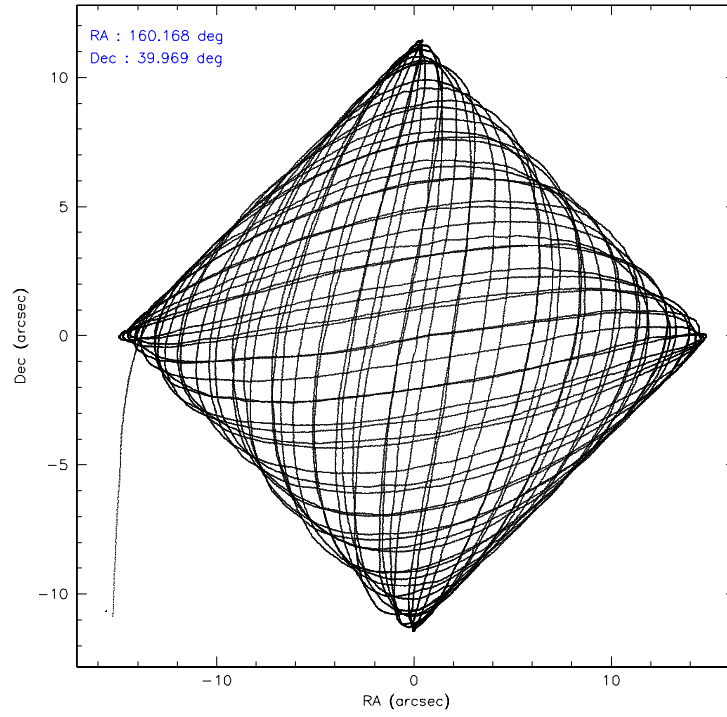
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	164722	163755	172966	284035	211159	183875
rejected events	146677	145809	152842	136177	170819	156923
rejected %	89%	89%	88%	47%	80%	85%

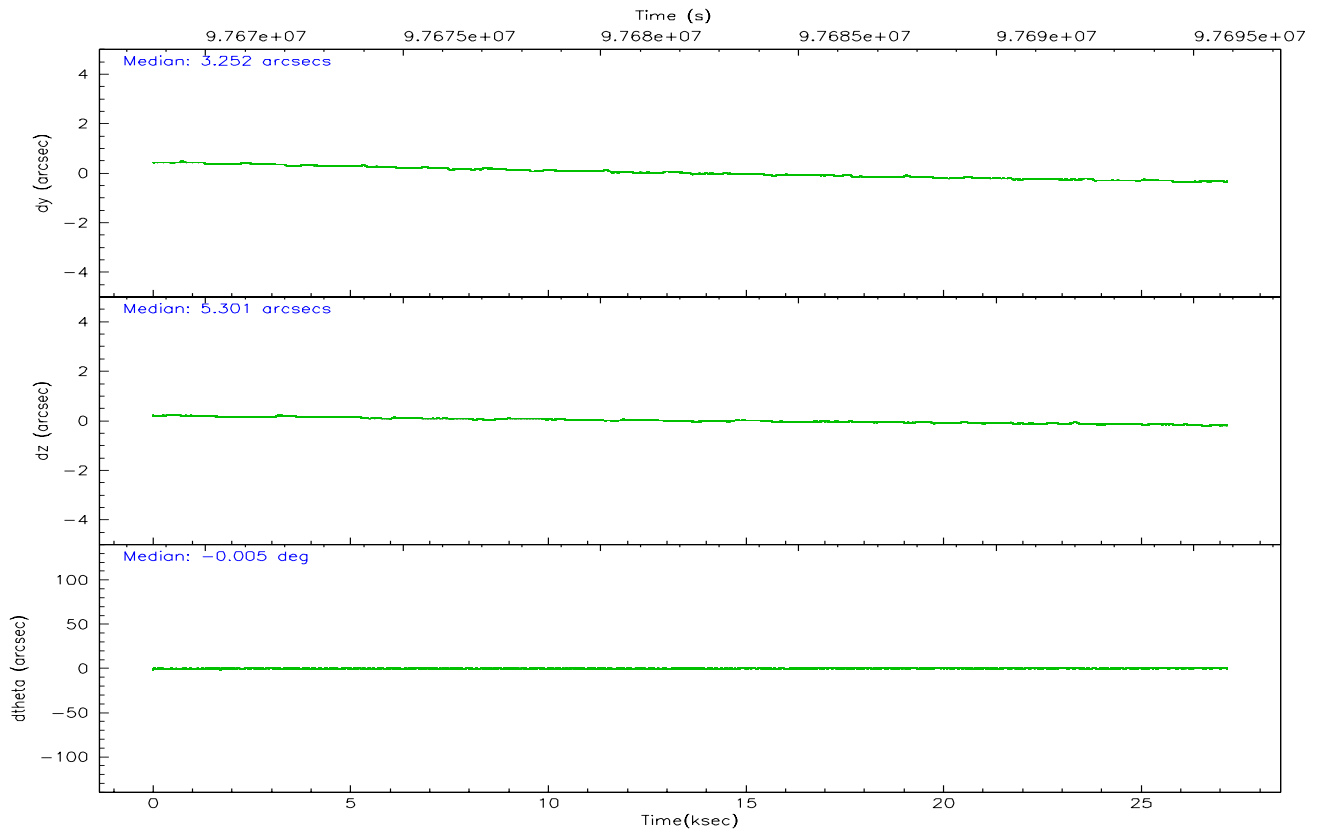
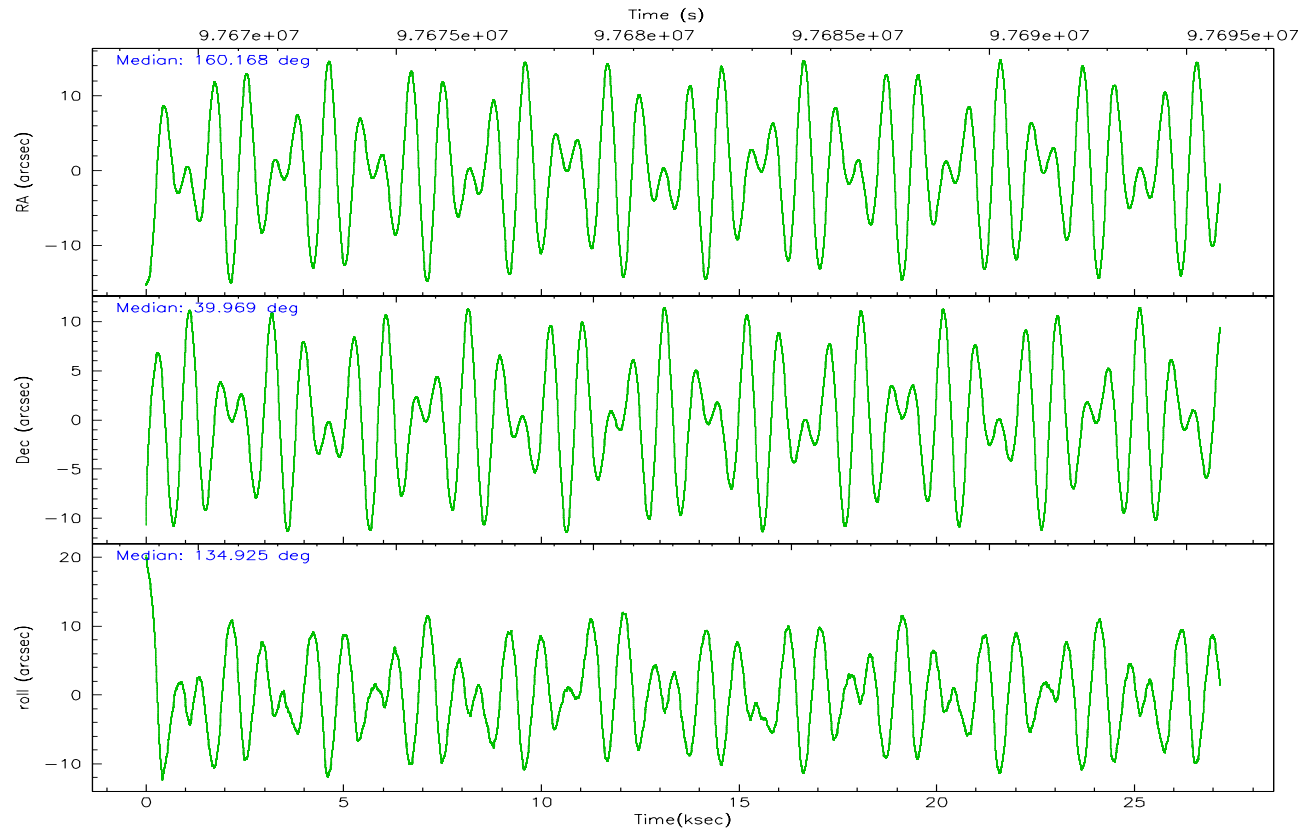
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	8071	8001	9014	28026	13325	7921
	4%	4%	5%	9%	6%	4%
grade 1 events	64	76	82	170	129	84
	0%	0%	0%	0%	0%	0%
grade 2 events	3784	3576	3949	38225	8791	12131
	2%	2%	2%	13%	4%	6%
grade 3 events	1736	1793	1978	12122	4596	1894
	1%	1%	1%	4%	2%	1%
grade 4 events	1735	1778	1955	11857	4231	1821
	1%	1%	1%	4%	2%	0%
grade 5 events	5686	6444	7162	15294	8935	7549
	3%	3%	4%	5%	4%	4%
grade 6 events	3237	3297	3809	60486	10561	4029
	1%	2%	2%	21%	5%	2%
grade 7 events	140409	138790	145017	117855	160591	148446
	85%	84%	83%	41%	76%	80%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-236789	ACIS-236789	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	160.201956	160.1674435927839	Subarray requested	NONE	NONE
Pointing Dec	39.961971	39.96883878828612	Alternating exposures requested	N	N
Pointing Roll	134.754098	134.9328989307208	Primary exposure time	0.000000	3.3
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	97668848.184000	97667312.890498			
Observation start date	2001-02-04T10:13:04	2001-02-04T09:48:32			
Observation end time	97695848.184000	97696310.65411501			
Observation end date	2001-02-04T17:43:04	2001-02-04T17:51:50			
Read mode	TIMED	TIMED			

## 2.3 Aspect





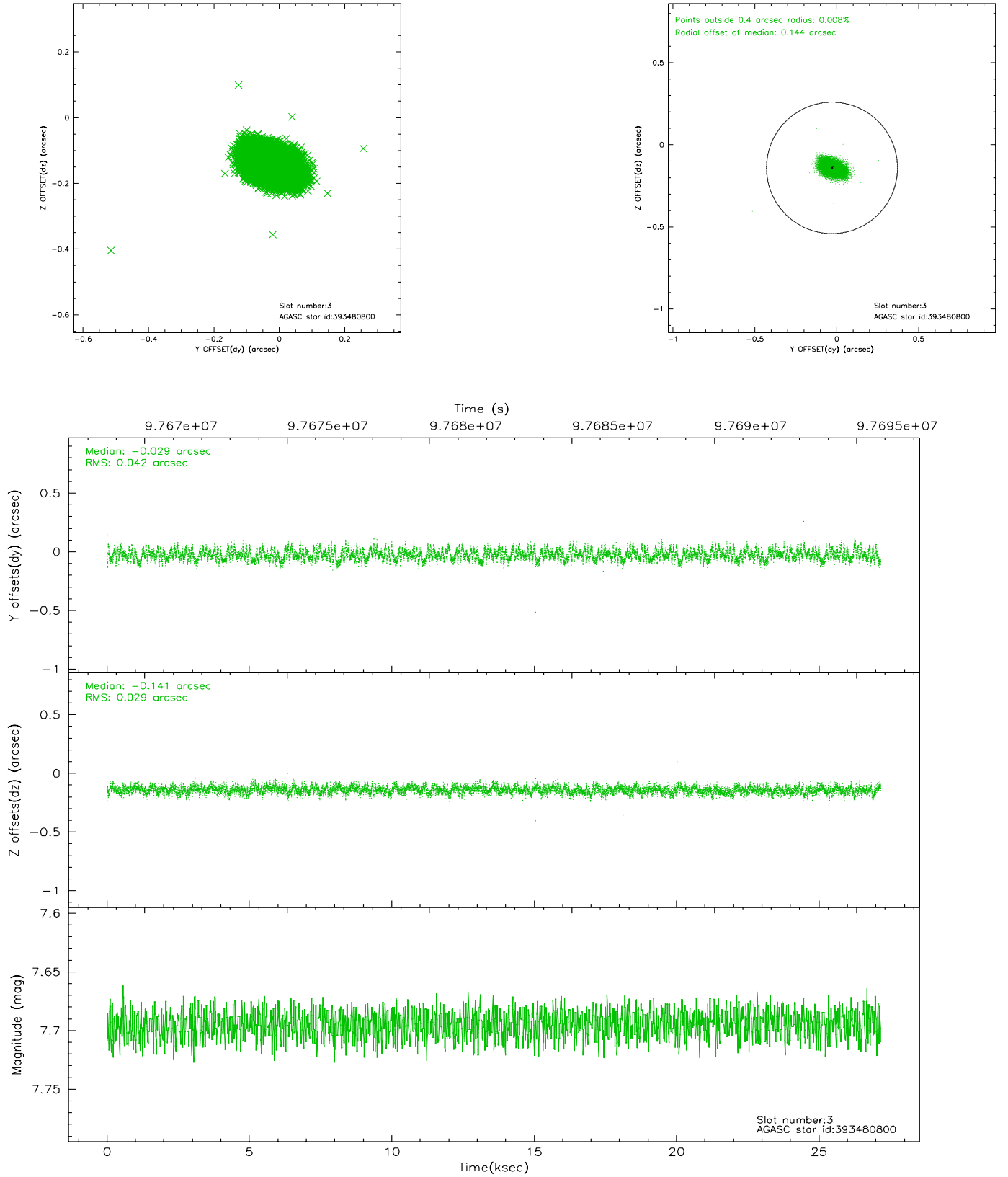
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	6628	-0.014	0.025	0.007	0.011	0.000000	0.000000	-755.90	-1726.42
1	FID	ACIS-S-4	7.20	6626	-0.057	0.000	0.010	0.016	0.000000	0.000000	2157.25	182.00
2	FID	ACIS-S-5	7.24	6627	0.041	-0.016	0.011	0.017	0.000000	0.000000	-1808.60	175.68
3	GUIDE	393480800	7.69	13252	-0.029	-0.141	0.055	0.089	159.955558	39.404672	-941.40	1898.42
4	GUIDE	394414344	8.39	13257	0.115	0.131	0.061	0.096	161.050764	39.919307	-1750.55	-1563.88
5	GUIDE	393878472	8.51	13253	0.007	-0.090	0.053	0.086	159.653339	40.322119	1984.43	153.32
6	GUIDE	394405296	8.73	13249	0.005	0.020	0.057	0.093	160.050441	40.278361	1102.70	-506.43
7	GUIDE	394407680	9.16	13159	-0.097	0.084	0.083	0.135	160.045368	40.603600	1942.52	-1322.29

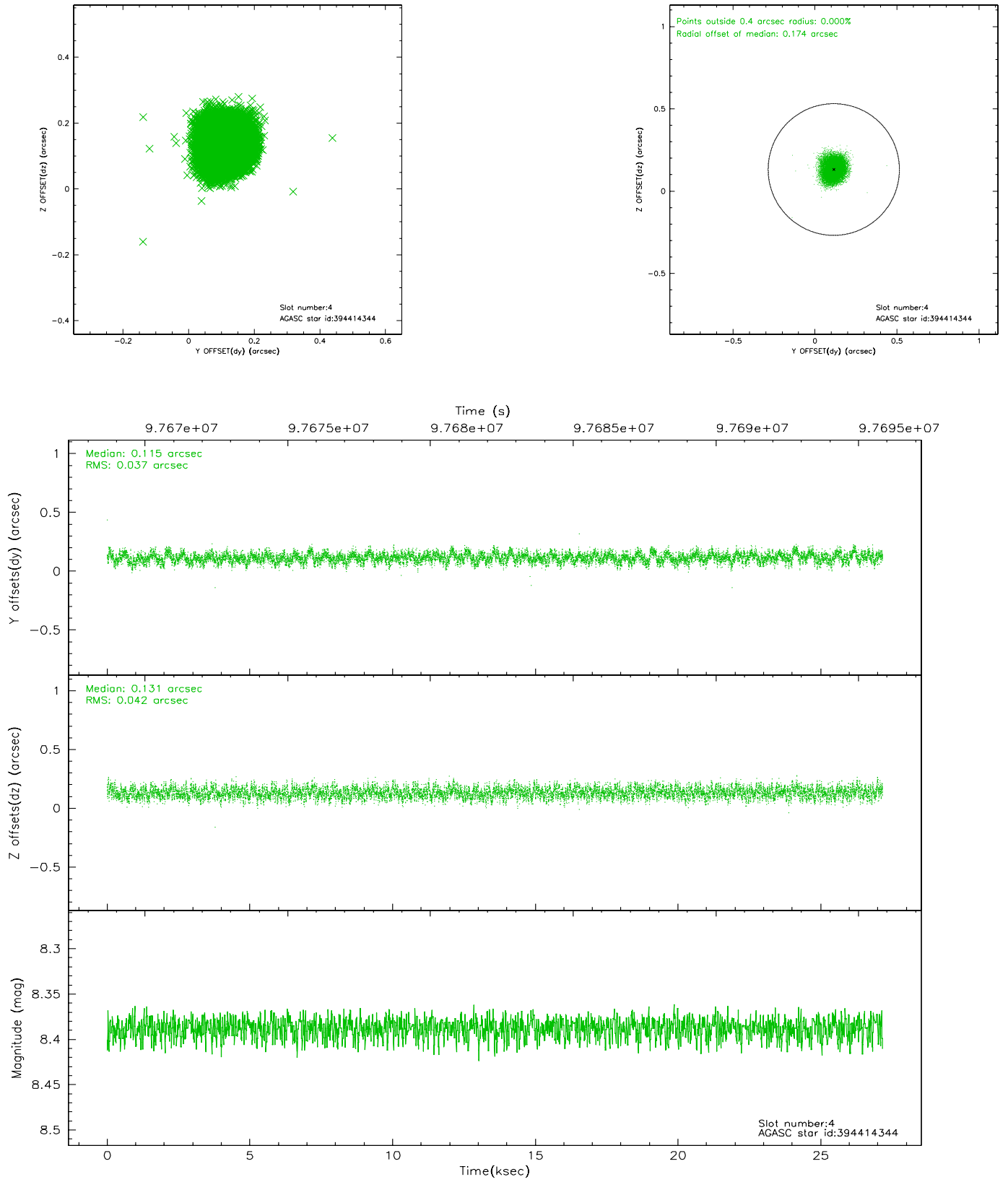


## 2.4 Star Slots

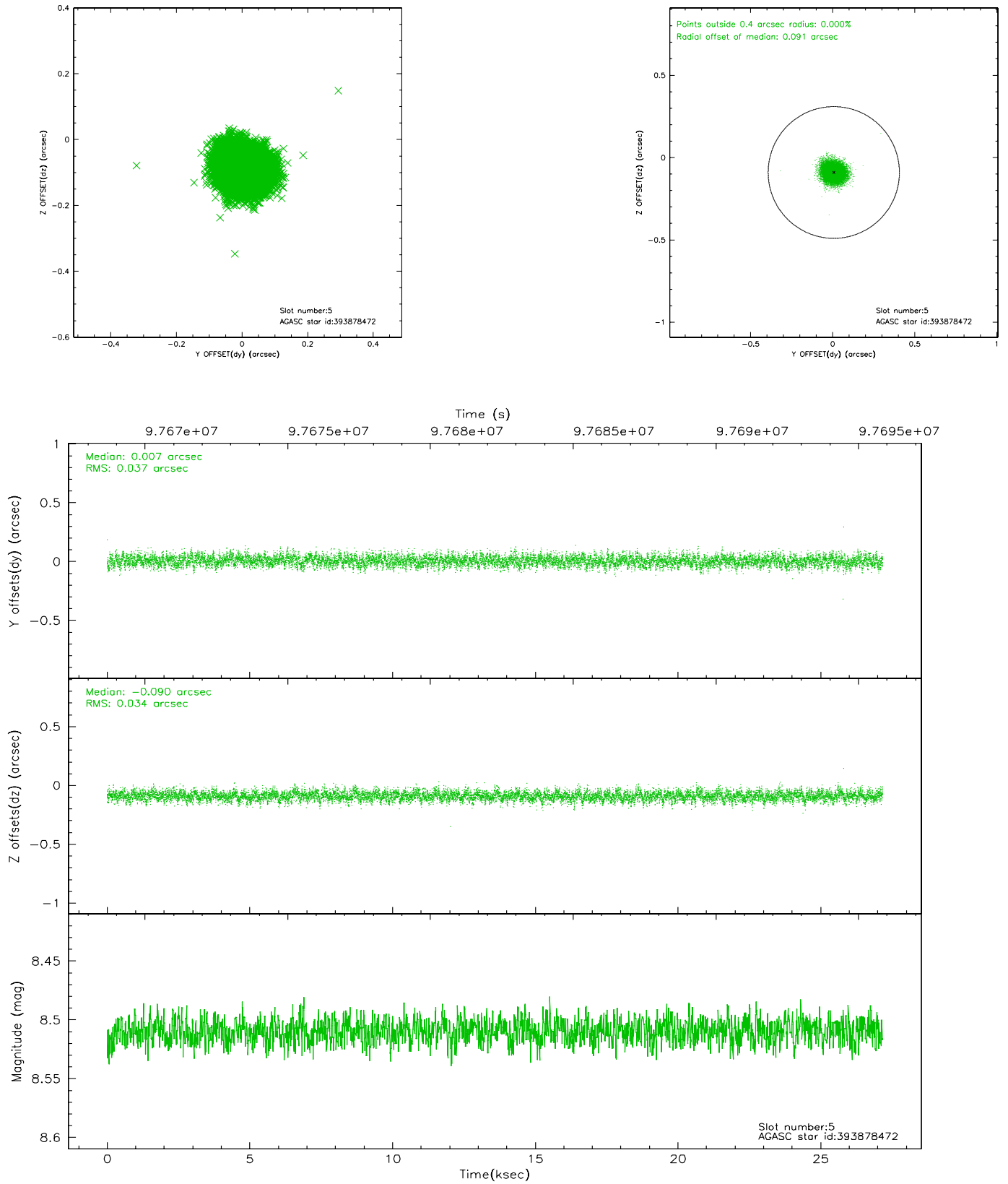
### 2.4.1 Slot 3



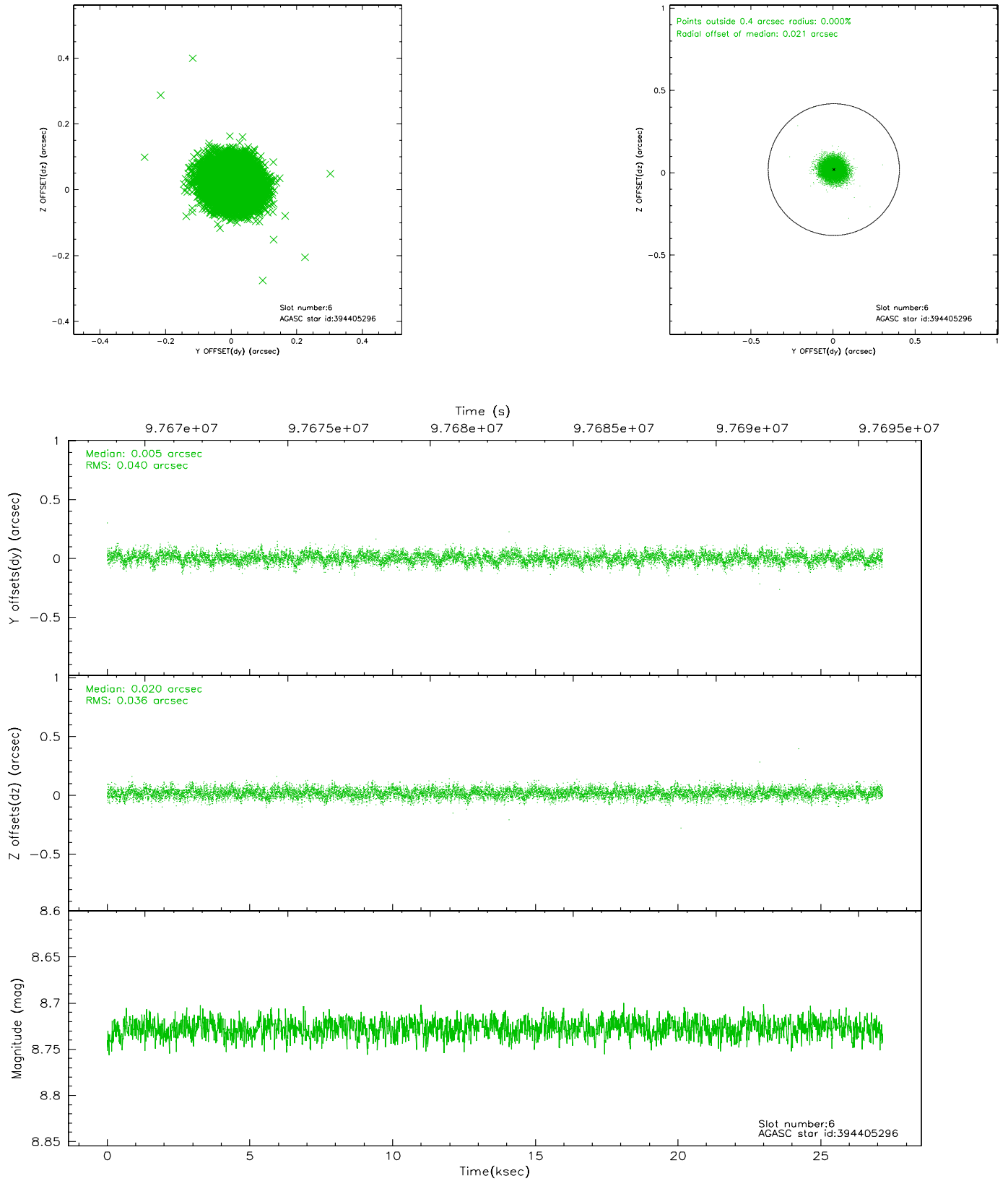
## 2.4.2 Slot 4



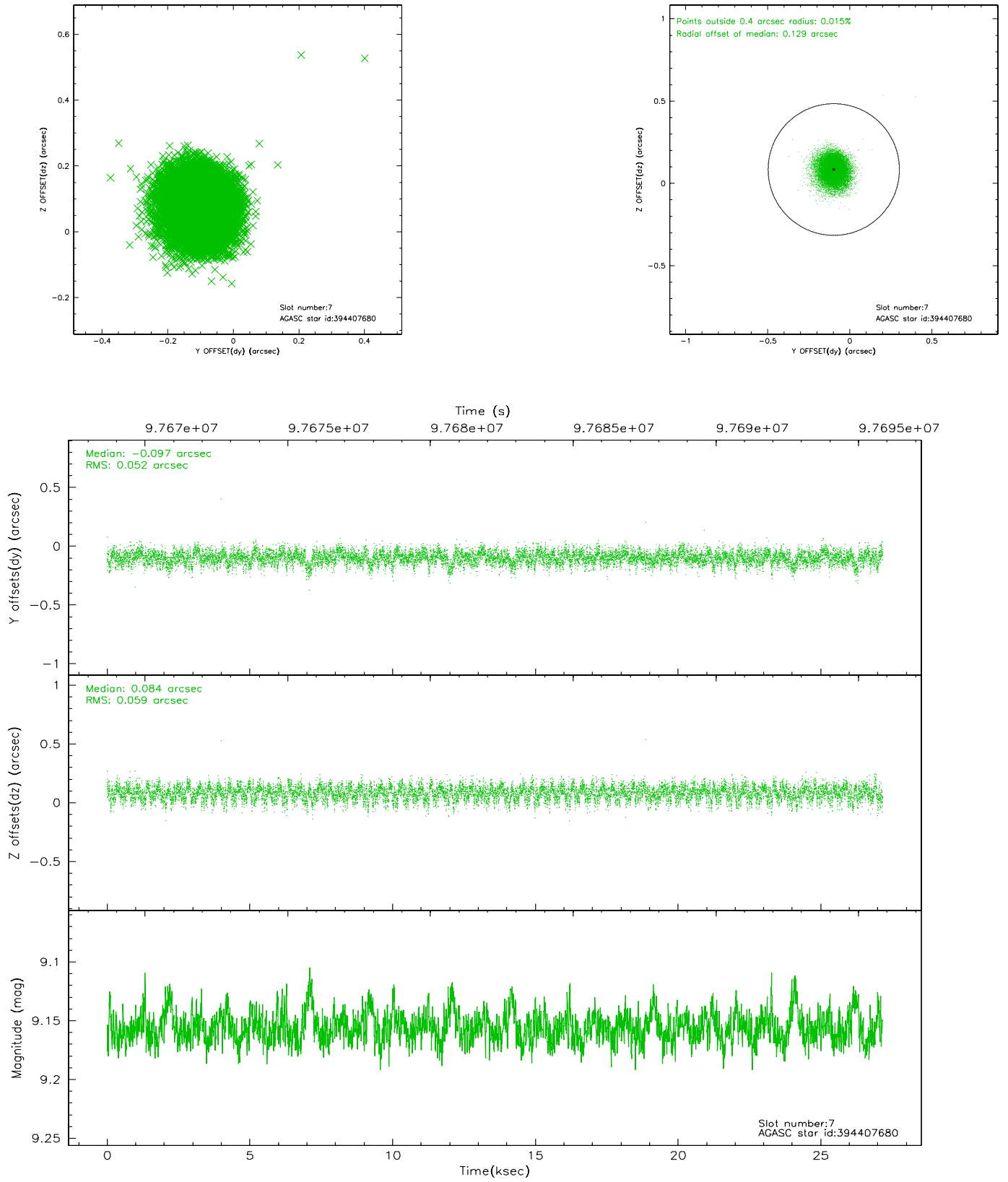
### 2.4.3 Slot 5



## 2.4.4 Slot 6

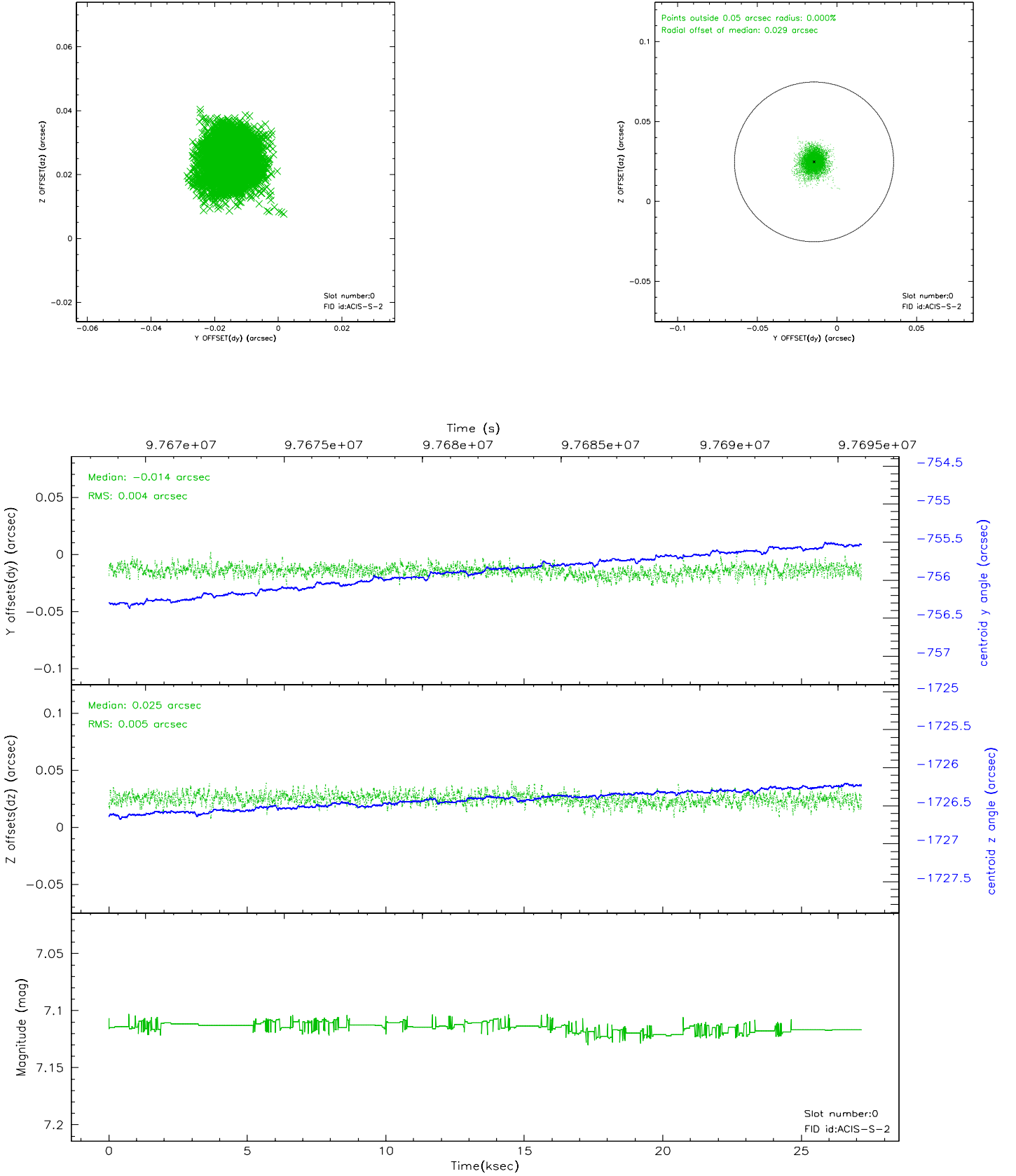


## 2.4.5 Slot 7

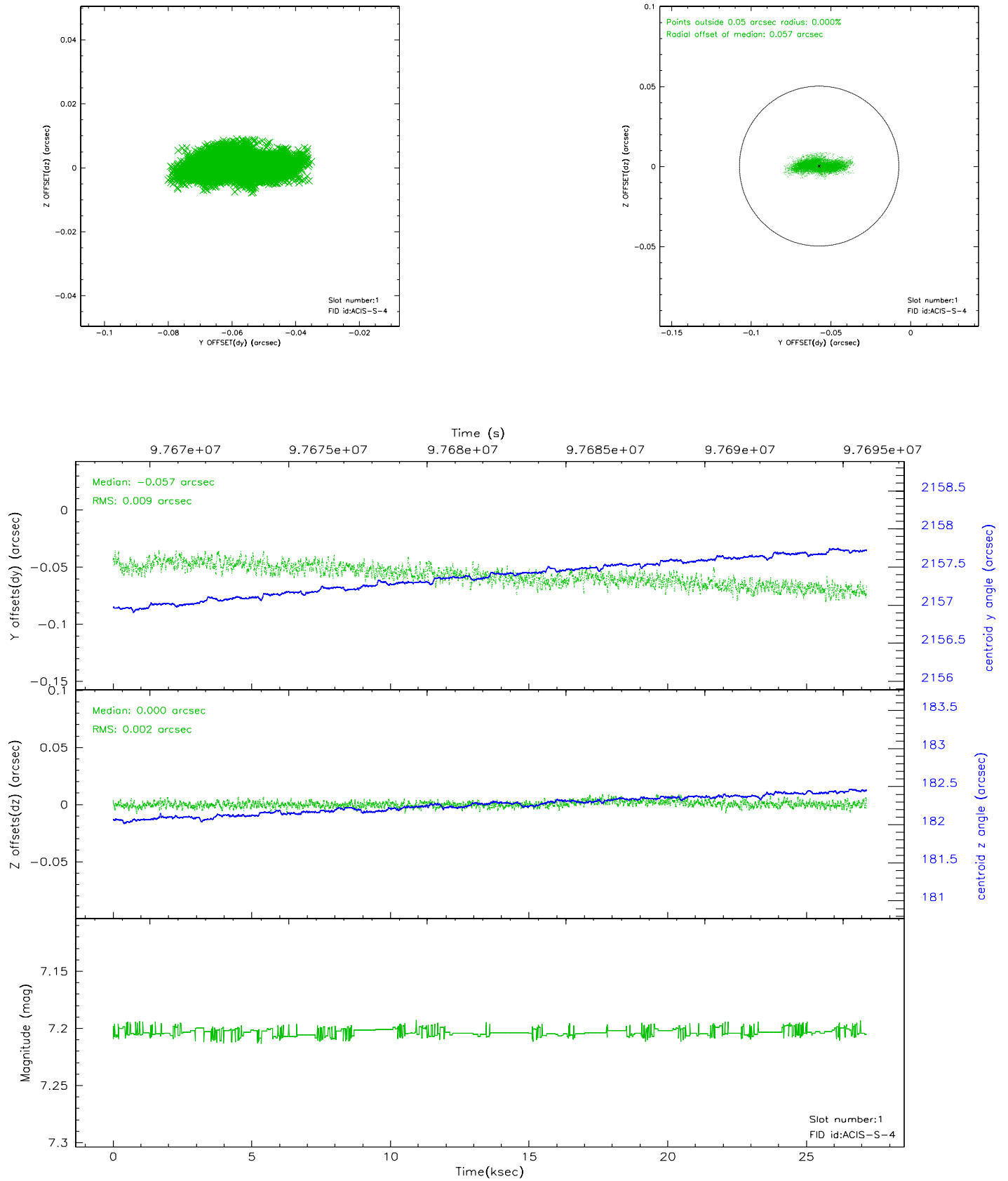


## 2.5 FID Slots

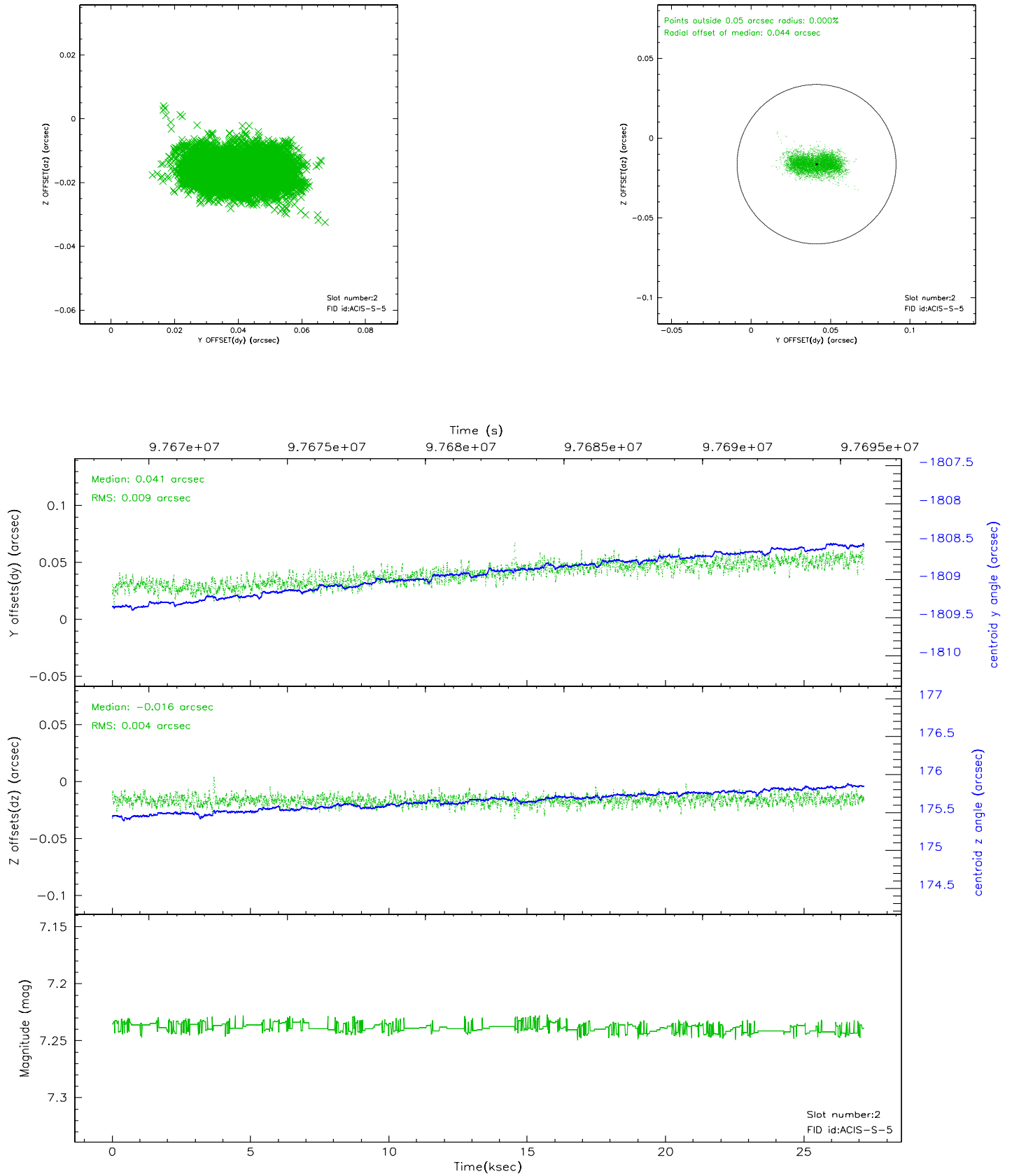
### 2.5.1 Slot 0



## 2.5.2 Slot 1

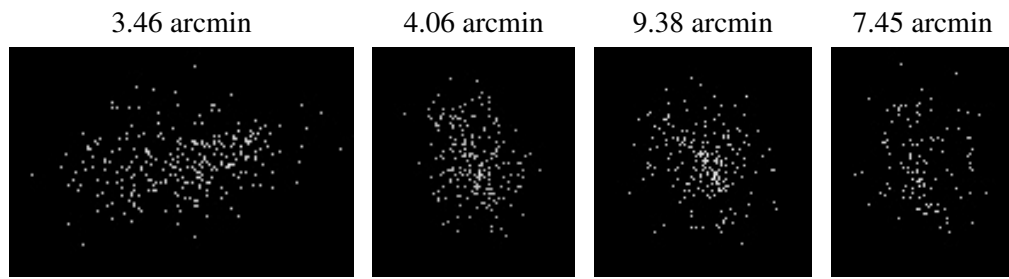


### 2.5.3 Slot 2





### 3 Point Sources



## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2006.11.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	27.172

### A.2 Comments