

# V&V Reference Report

## L2 ASCDS Version : 7.6.10

Observation 383 - L2 Version 001  
Chandra X-Ray Center

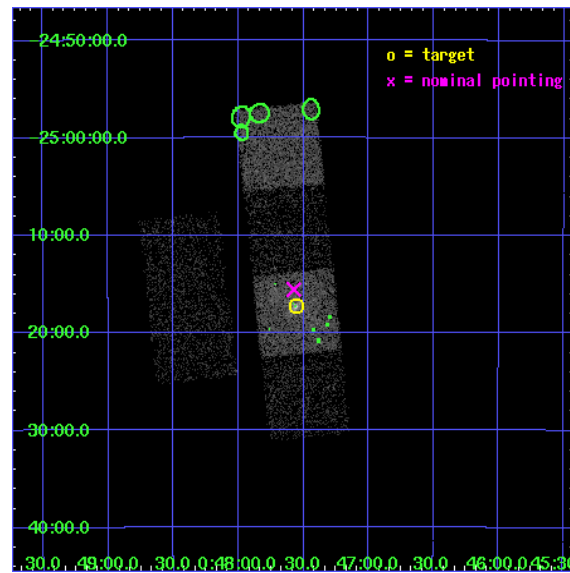
L2 Processing Date : Jun 5 2007

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# 1 Front

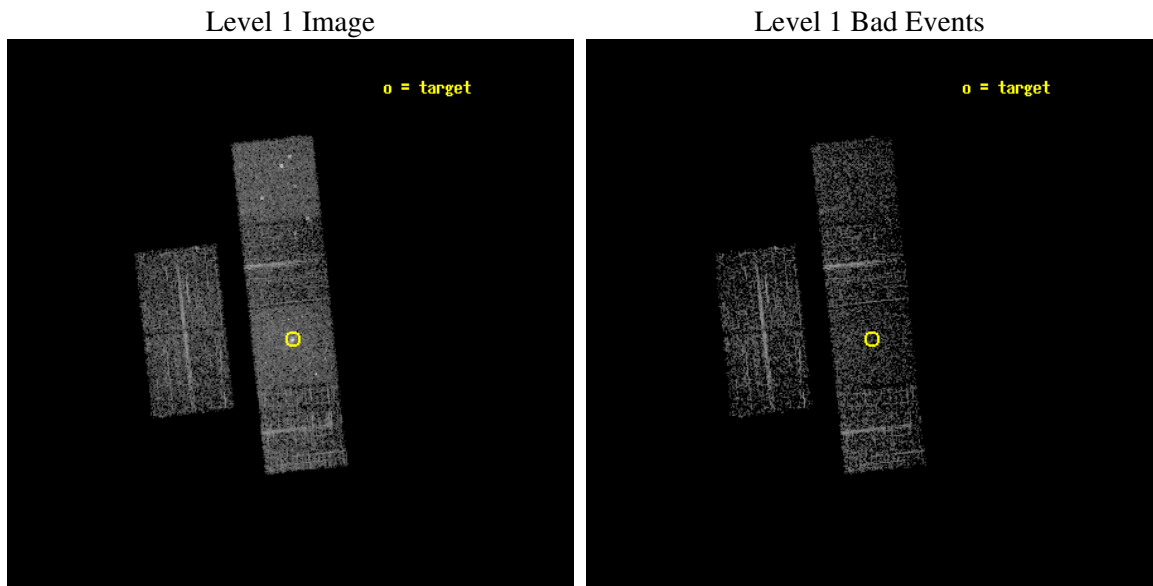
seq_num	700055
obs_id	383
title	LOW-LUMINOSITY ACTIVE GALACTIC NUCLEI IN NEARBY GALAXIES
observer	Prof. Gordon Garmire
object	NGC 253
dtcycle	0
cycle	P
ra_targ	11.887917
dec_targ	-25.288333
ra_nom	11.893295708952
dec_nom	-25.259310069621
roll_nom	83.92043579957
revision	2
ontime	2160.0000020117
livetime	2132.6487813903
ontime2	2160.0000020117
ontime3	2160.0000020117
ontime5	2160.0000020117
ontime6	2160.0000020117
ontime7	2160.0000020117
ontime8	2160.0000020117
l2events	23844



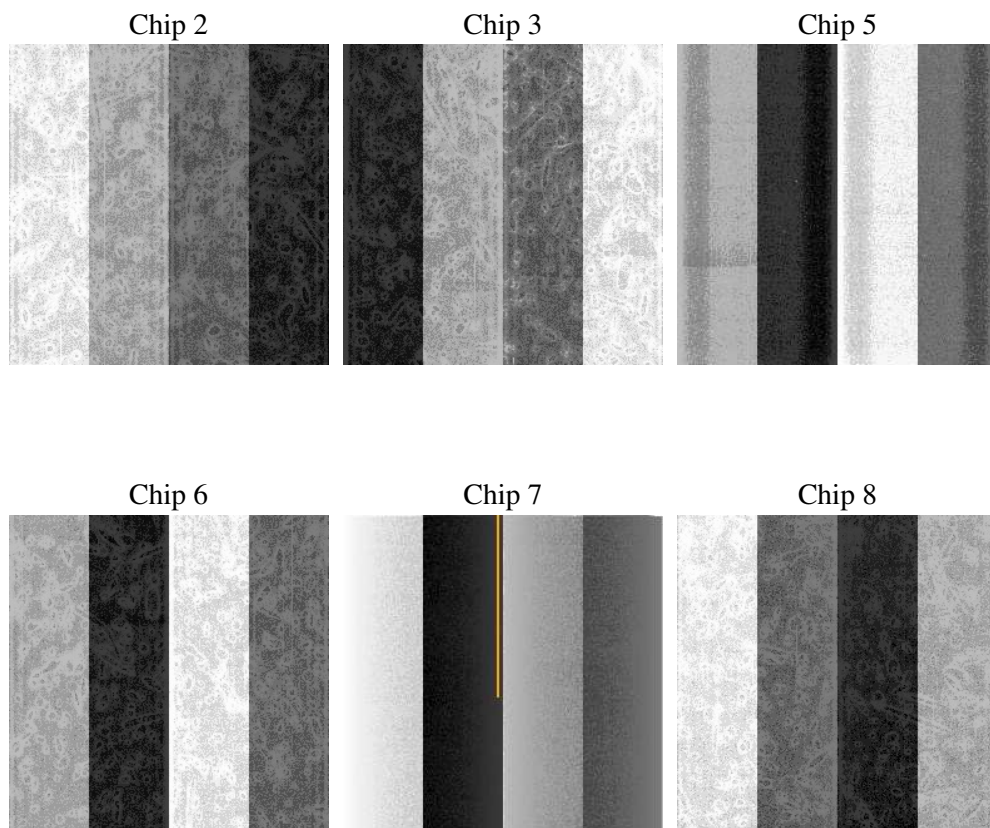
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0
ascdsver	7.6.10
caldbver	3.4.0
date	2007-06-05T04:09:34
revision	2

sched_exp_time	2000.000000
ontime	2160.0000020117
ontime2	2160.0000020117
ontime3	2160.0000020117
ontime5	2160.0000020117
ontime6	2160.0000020117
ontime7	2160.0000020117
ontime8	2160.0000020117
l1events	122150

### 2.1.4 Events

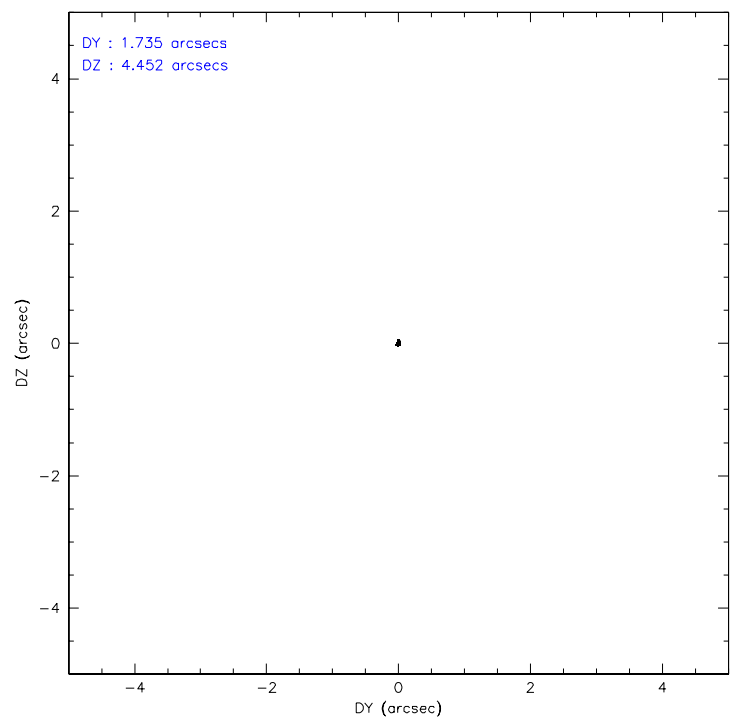
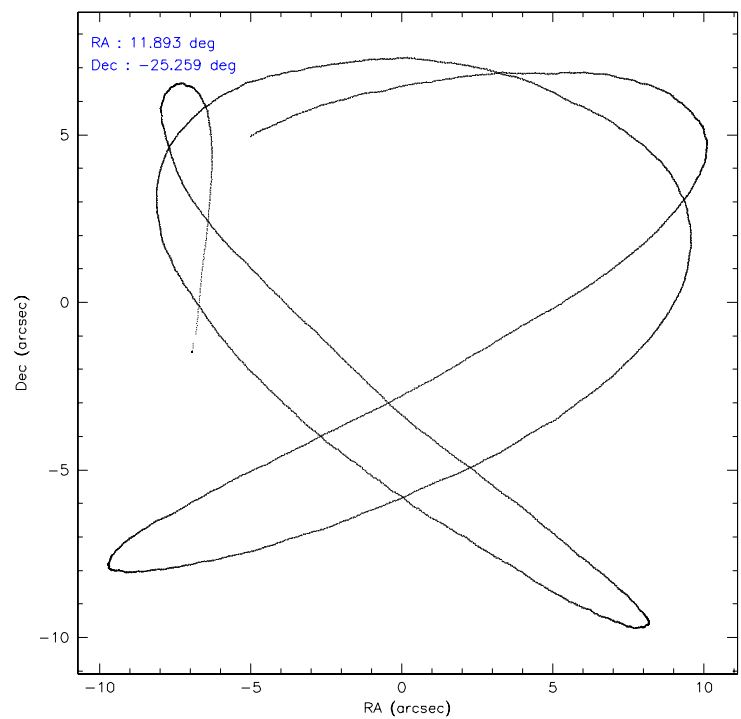
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	16839	16204	24663	17377	25019	22048
rejected events	15429	14817	15548	15685	14216	18143
rejected %	91%	91%	63%	90%	56%	82%

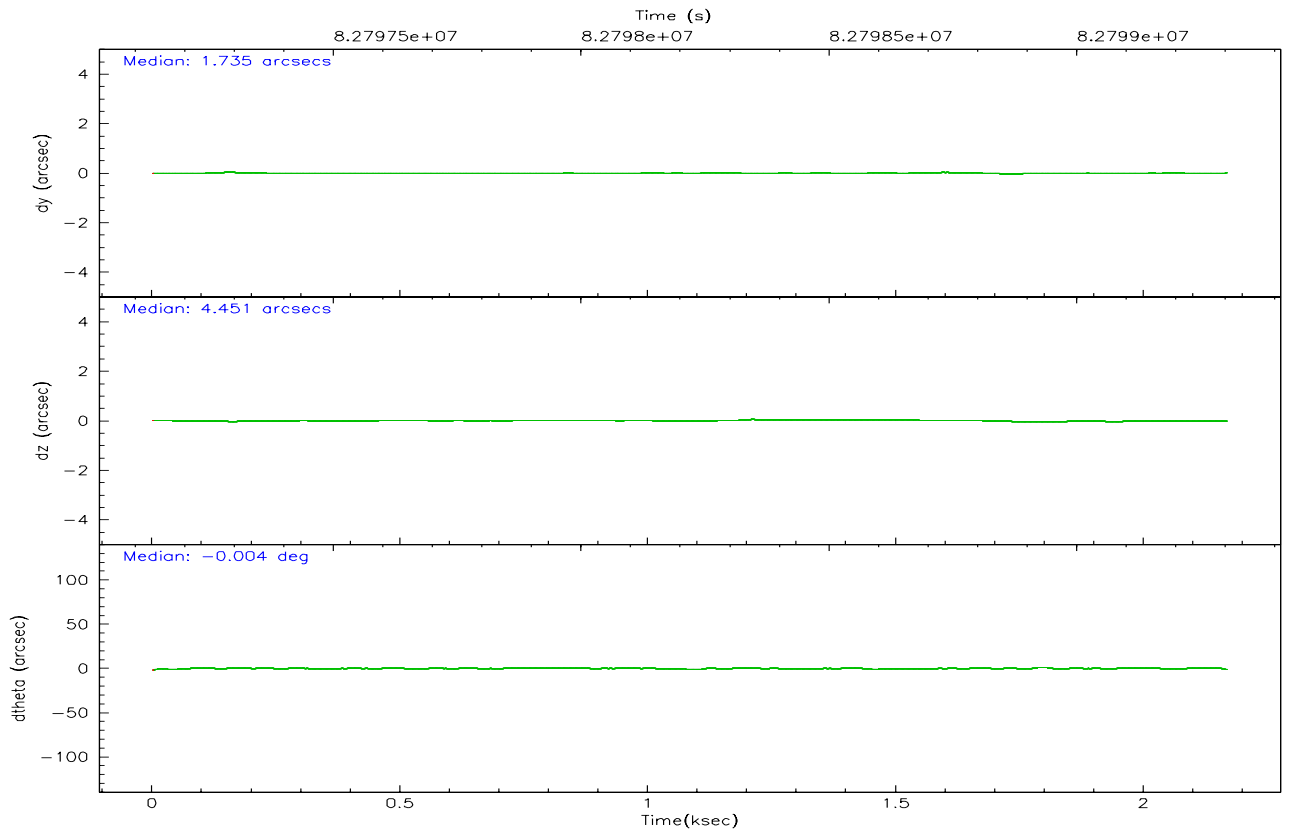
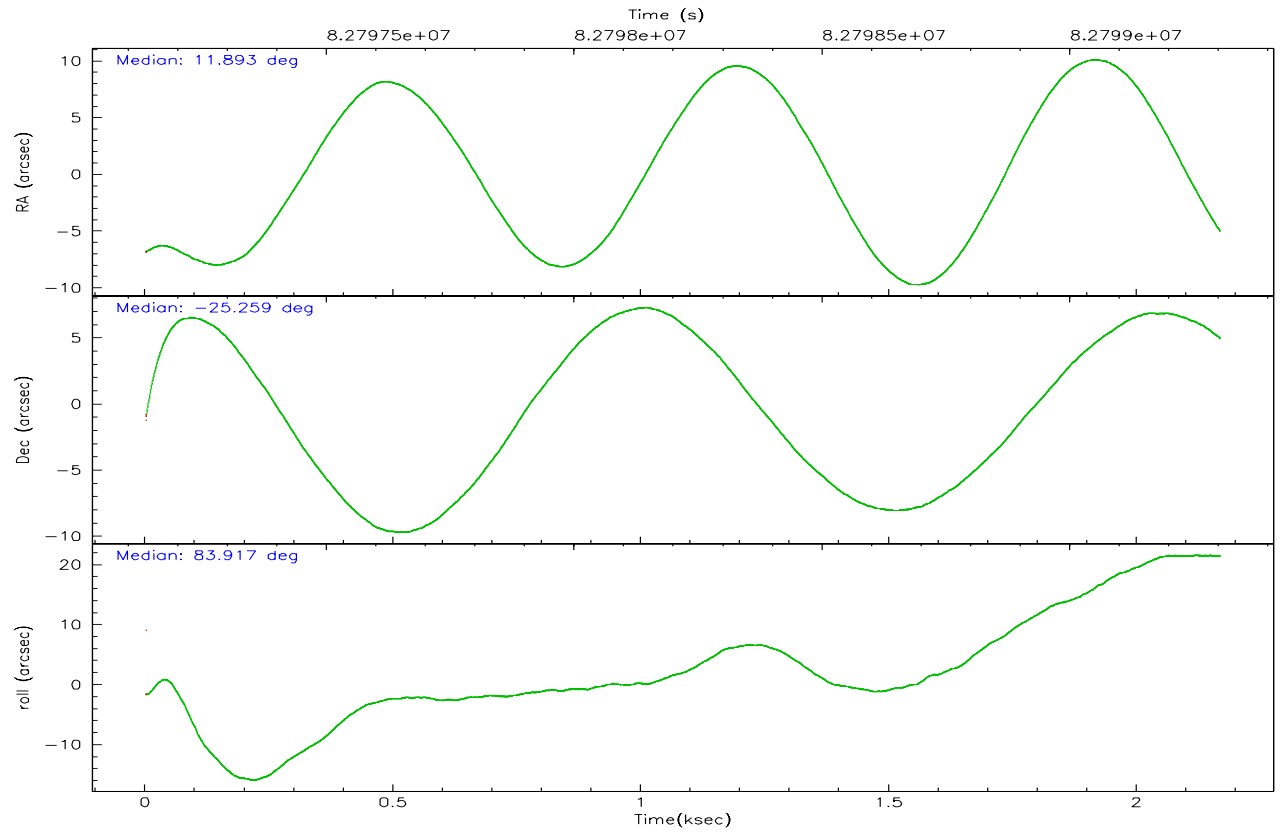
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	807	874	2389	1063	2265	1752
	4%	5%	9%	6%	9%	7%
grade 1 events	5	5	89	7	28	15
	0%	0%	0%	0%	0%	0%
grade 2 events	421	391	3182	503	2701	1011
	2%	2%	12%	2%	10%	4%
grade 3 events	159	157	539	177	1254	690
	0%	0%	2%	1%	5%	3%
grade 4 events	175	164	576	184	1311	609
	1%	1%	2%	1%	5%	2%
grade 5 events	543	575	1895	680	2035	821
	3%	3%	7%	3%	8%	3%
grade 6 events	379	310	5600	393	5778	1266
	2%	1%	22%	2%	23%	5%
grade 7 events	14350	13728	10393	14370	9647	15884
	85%	84%	42%	82%	38%	72%

## 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	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
Pointing RA	11.905825	11.89329570895232	Subarray requested	NONE	NONE
Pointing Dec	-25.284400	-25.25931006962134	Alternating exposures requested	N	N
Pointing Roll	83.769219	83.92043579957023	Primary exposure time	3.200000	3.2
SIM focus pos (mm)	-0.684267	-0.6828225247311905			
SIM defocus (mm)	0	0.001444936568705701			
SIM translation stage pos (mm)	-190.132523	-190.1425803651734			
SIM translation stage offset (mm)	0	0.01005778216563158			
Observation start time	82797305.184000	82795769.775675			
Observation start date	2000-08-16T07:14:01	2000-08-16T06:49:29			
Observation end time	82799305.184000	82799918.97583			
Observation end date	2000-08-16T07:47:21	2000-08-16T07:58:38			
Read mode	TIMED	TIMED			

### 2.3 Aspect





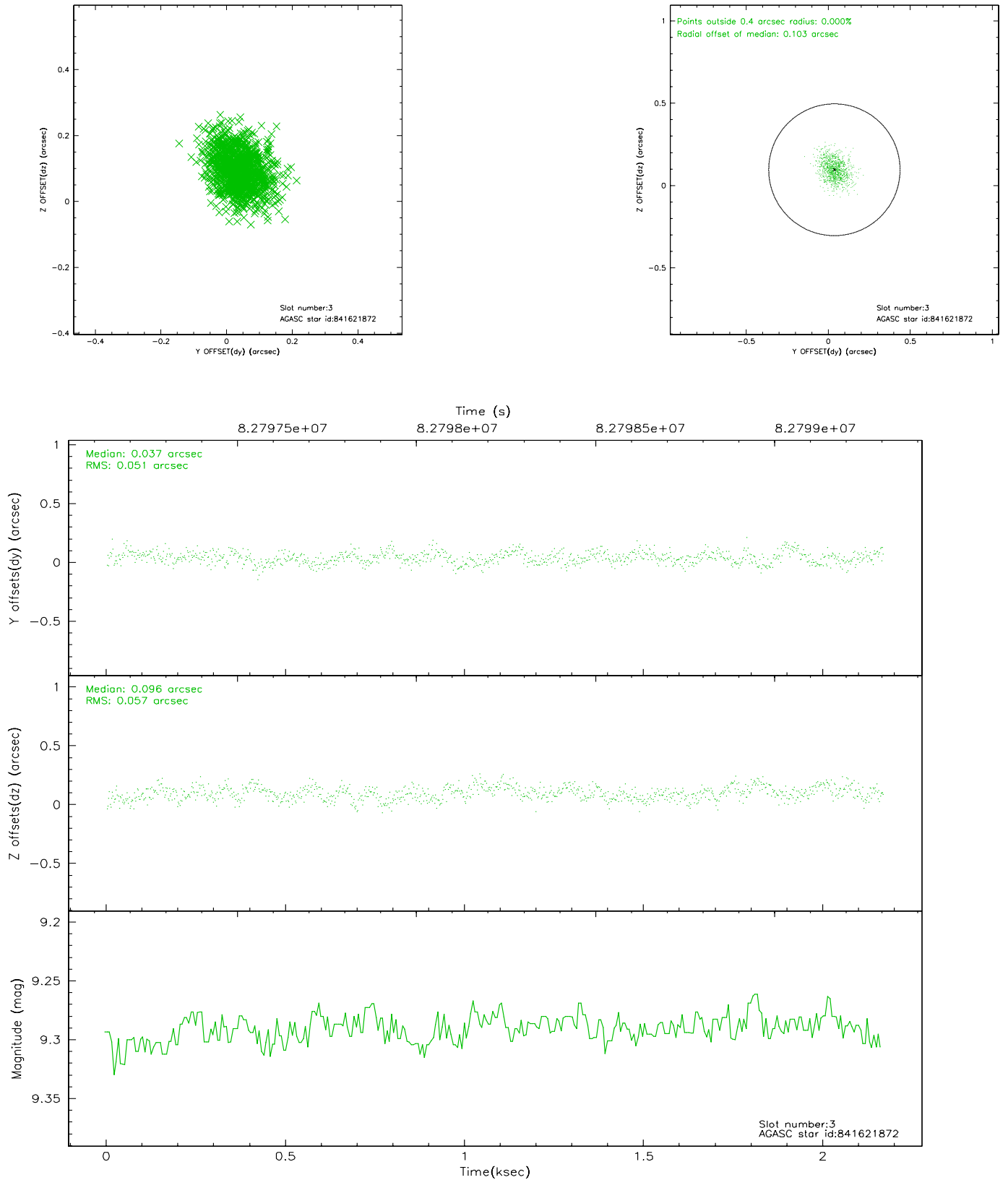
### Slot Statistics

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	529	-0.014	0.012	0.006	0.009	0.000000	0.000000	-754.37	-1725.48
1	FID	ACIS-S-4	7.21	529	-0.051	0.003	0.005	0.009	0.000000	0.000000	2157.53	179.88
2	FID	ACIS-S-5	7.24	529	0.033	-0.007	0.006	0.009	0.000000	0.000000	-1803.27	176.98
3	GUIDE	841621872	9.29	1058	0.037	0.096	0.082	0.135	12.339829	-25.439870	-405.39	-1463.09
4	GUIDE	841628160	9.33	1058	0.098	-0.024	0.074	0.125	11.565969	-25.537708	-1028.06	997.23
5	GUIDE	841618680	9.77	1056	-0.035	-0.021	0.082	0.135	11.627778	-24.869126	1385.63	1066.37
6	GUIDE	841616192	10.35	1056	-0.105	-0.051	0.121	0.192	11.575284	-24.800163	1615.59	1264.38
7	BAD	841625328	10.70	362	0.268	0.064	0.158	0.238	12.150623	-25.891705	-2083.31	-1021.67

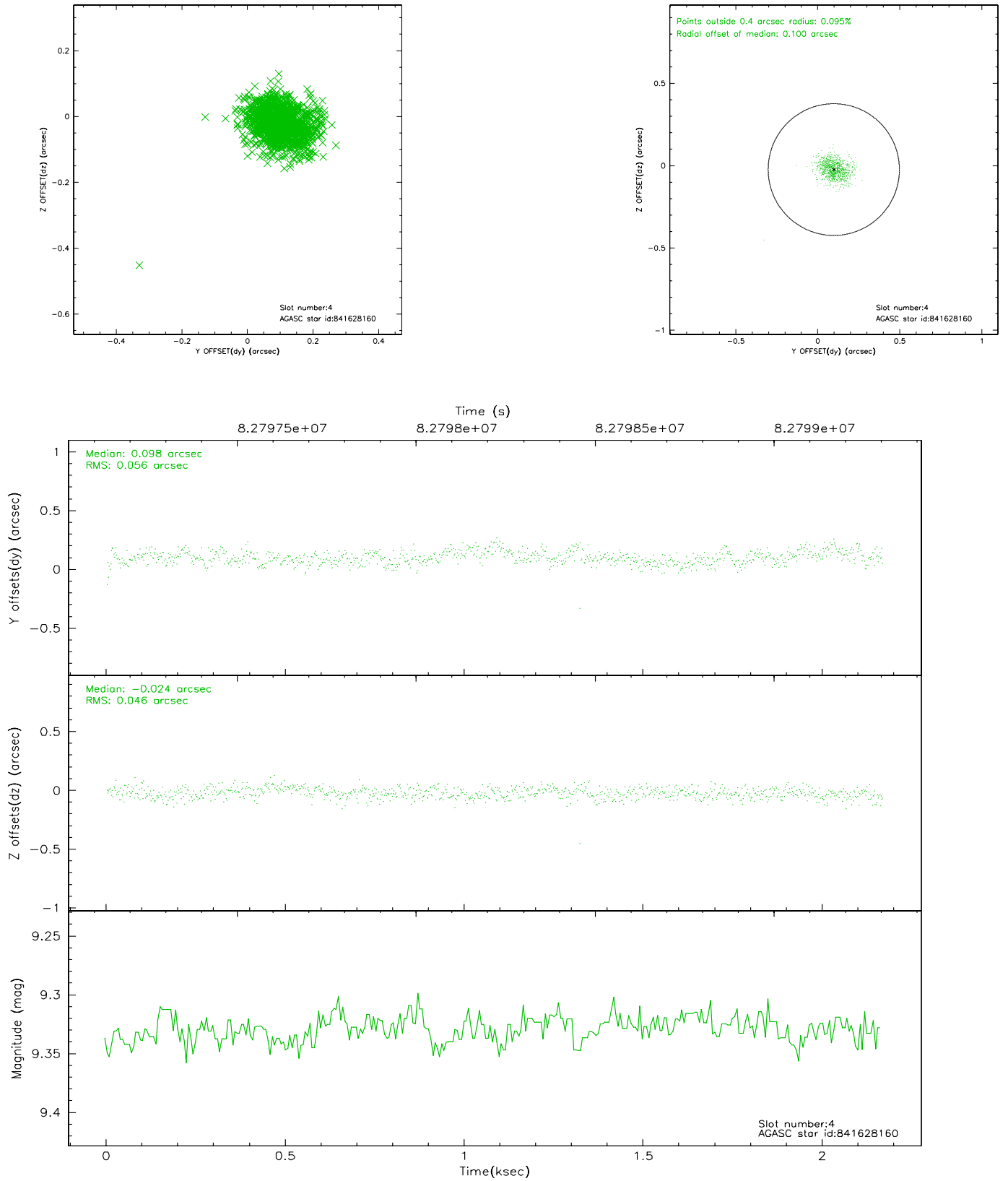


## 2.4 Star Slots

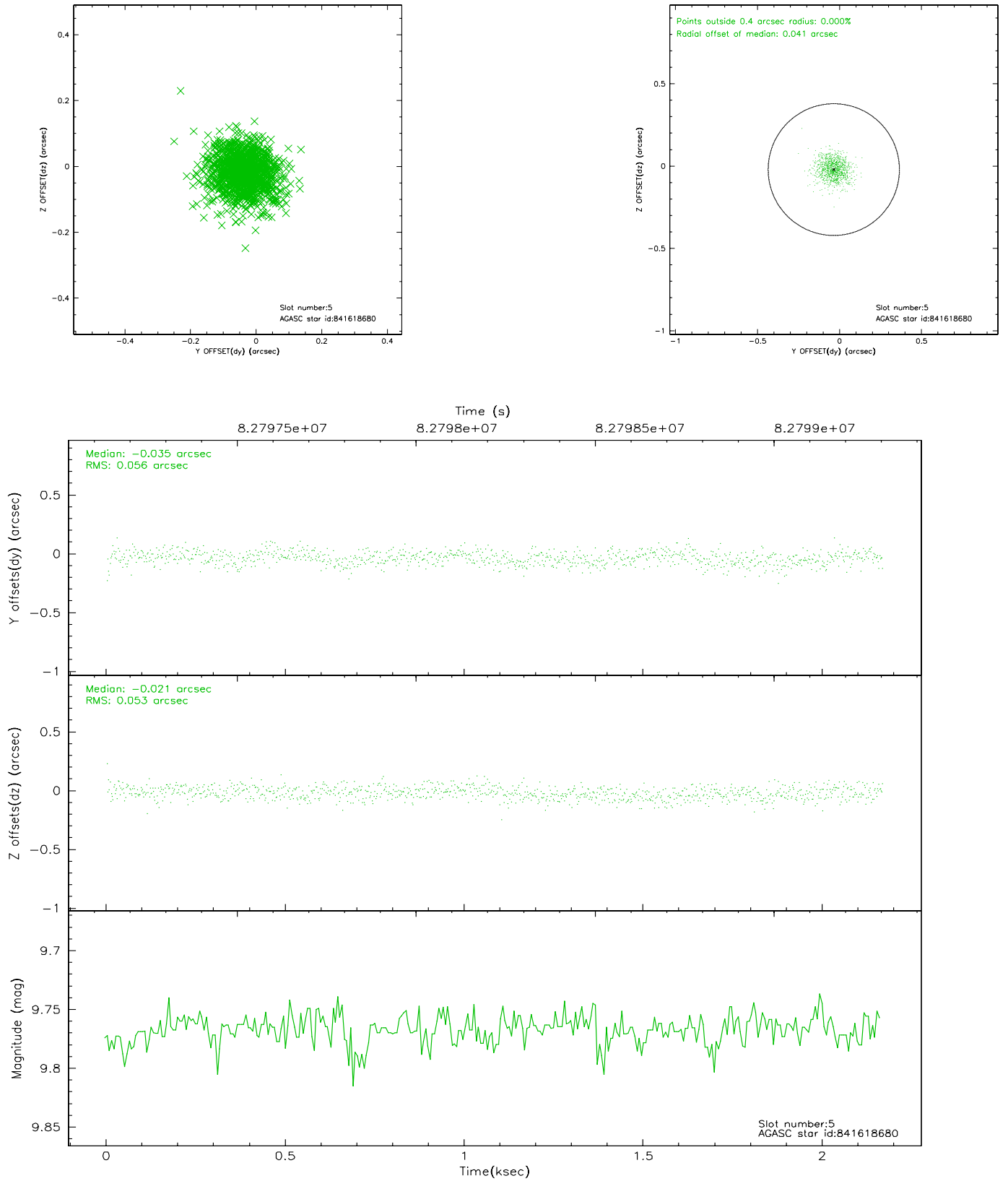
### 2.4.1 Slot 3



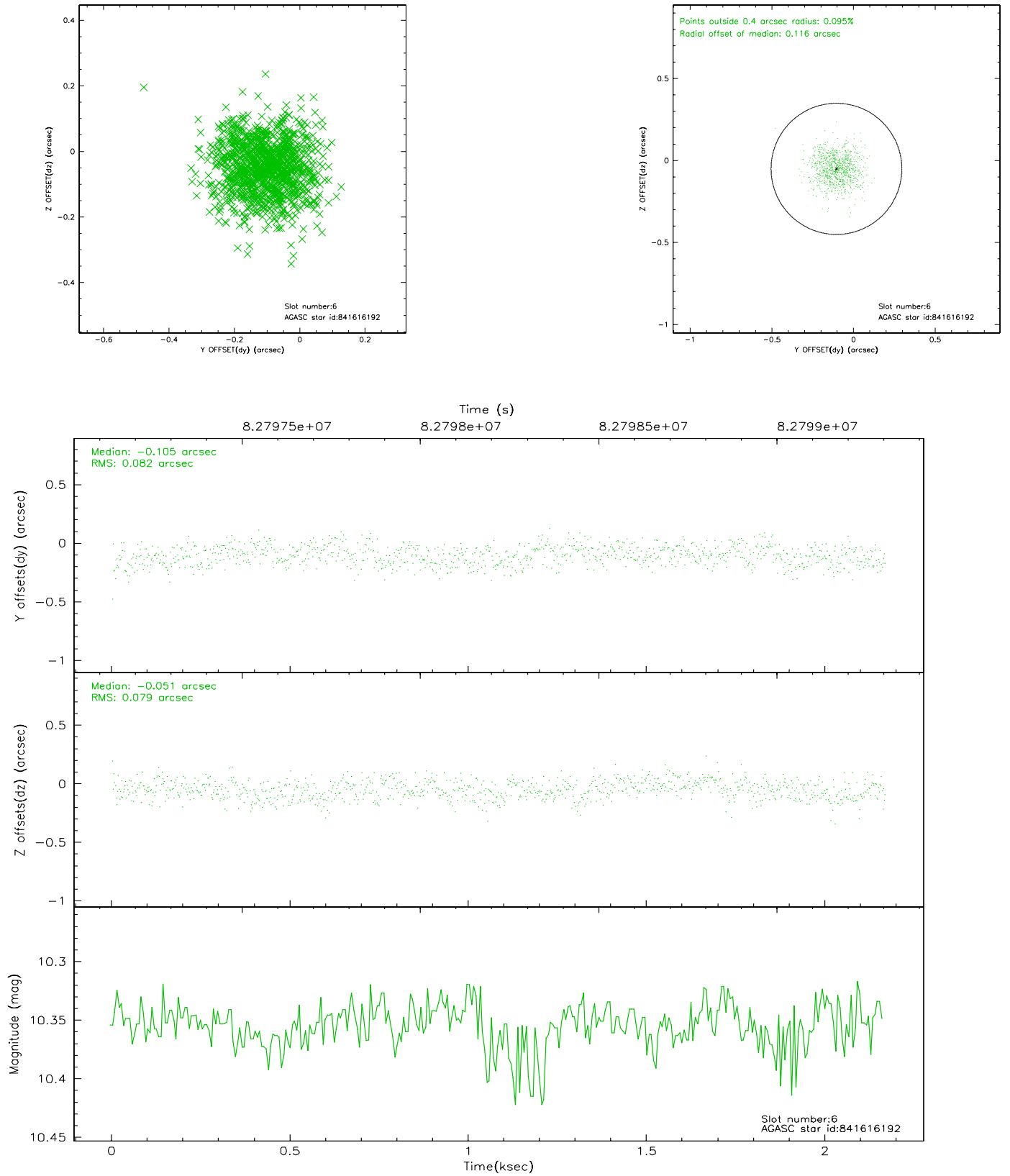
## 2.4.2 Slot 4



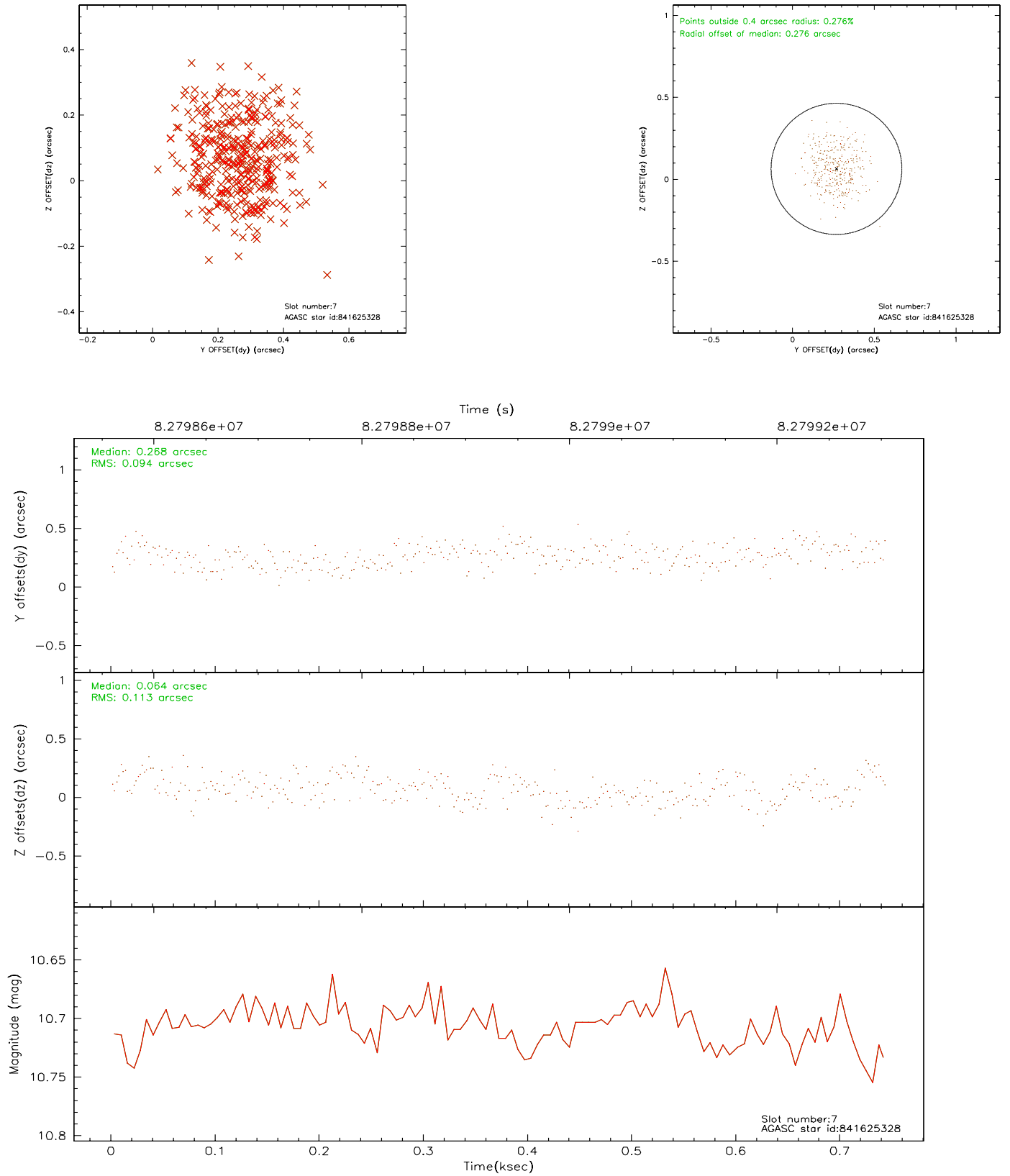
### 2.4.3 Slot 5



## 2.4.4 Slot 6

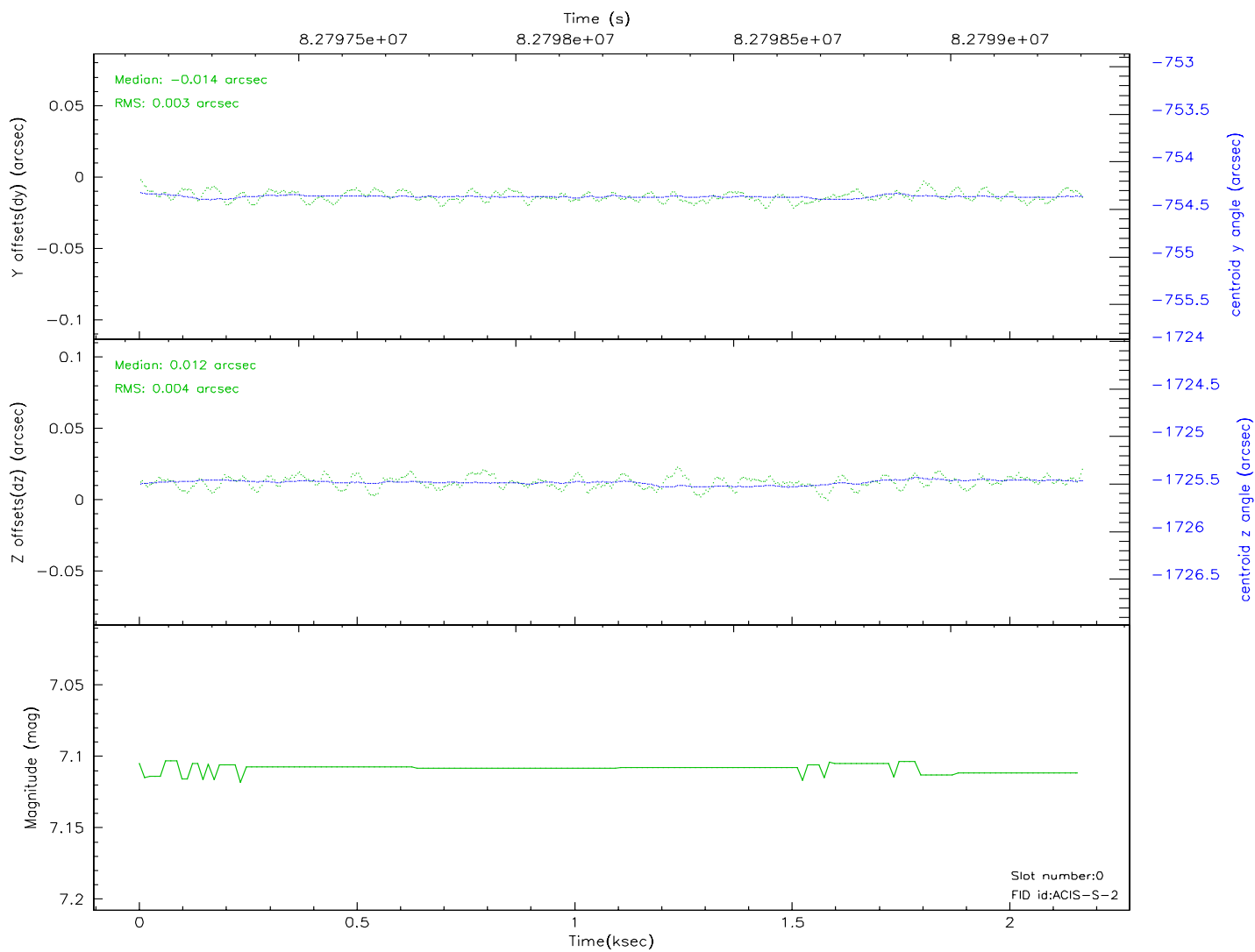
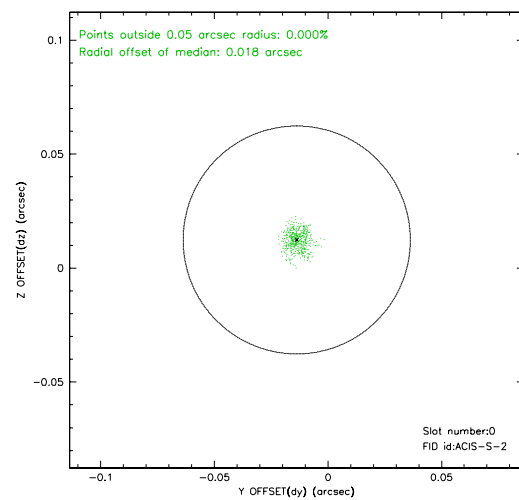
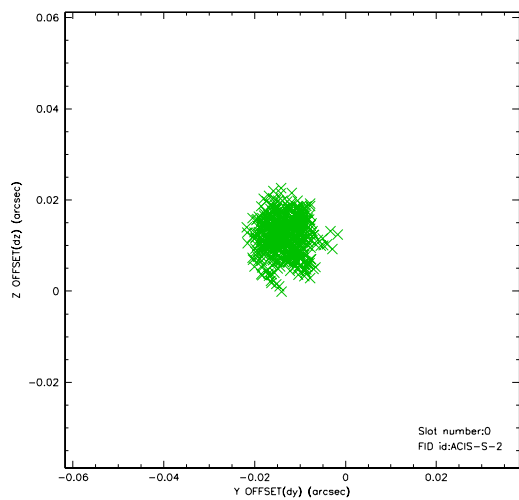


## 2.4.5 Slot 7

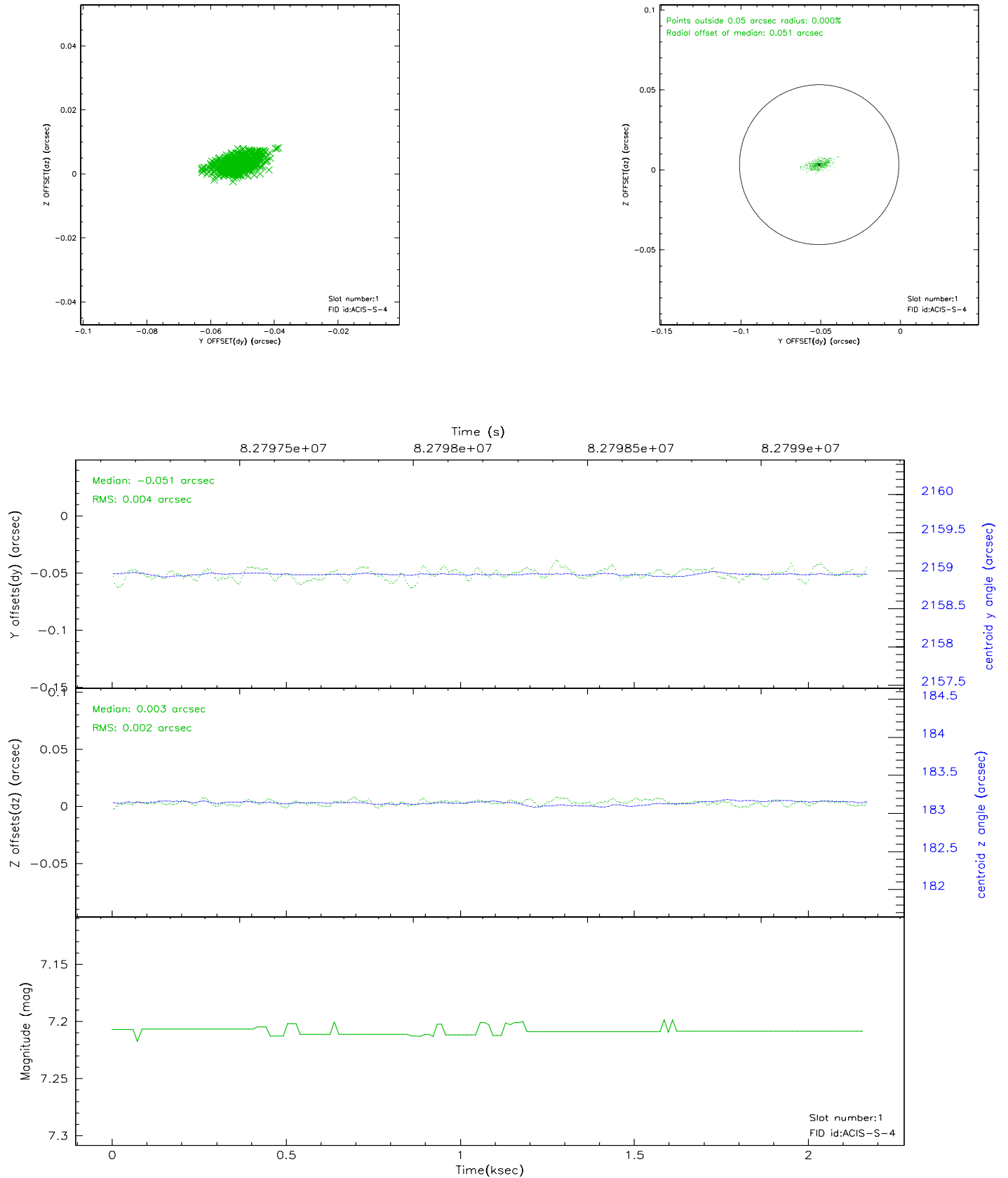


## 2.5 FID Slots

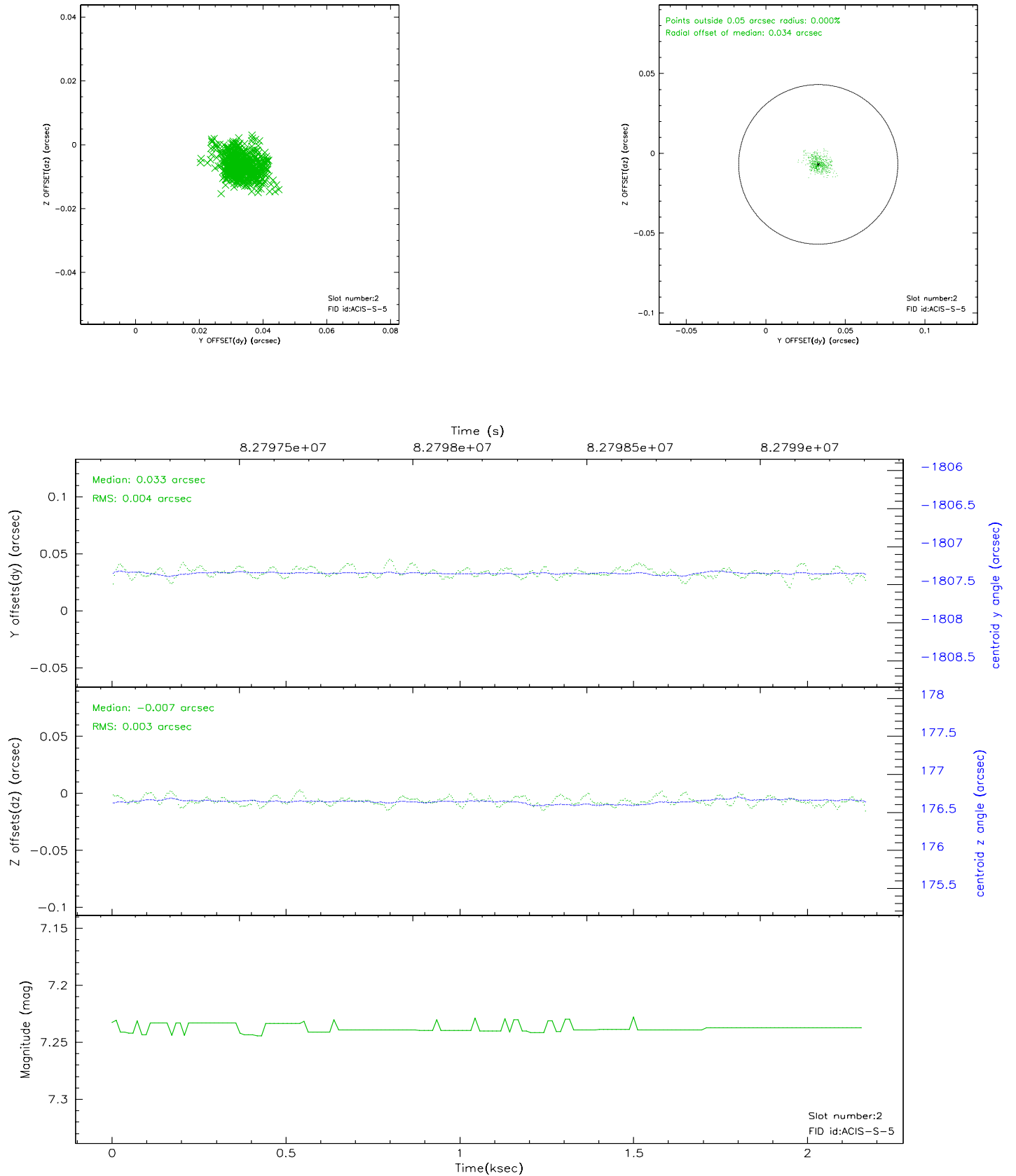
### 2.5.1 Slot 0



## 2.5.2 Slot 1

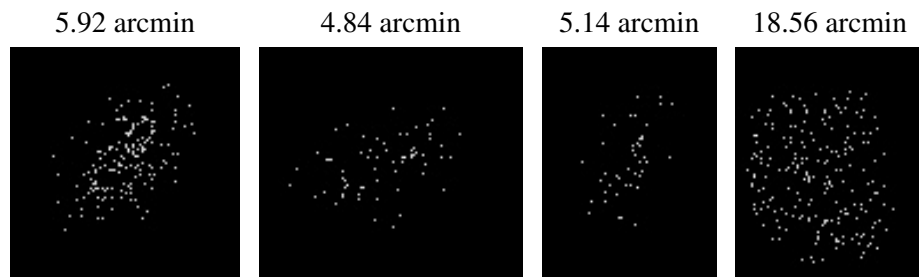


### 2.5.3 Slot 2





### 3 Point Sources



# A Summary

## A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2007.06.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.156

## A.2 Comments

SLOT 7 was only tracked for 34.278% of the observation, and is therefore not included in the aspect solution. The aspect solution is not expected to be degraded by the loss of one guide star.