

# V&V Reference Report

## L2 ASCDS Version : 7.6.7.1

Observation 5743 - L2 Version 002  
Chandra X-Ray Center

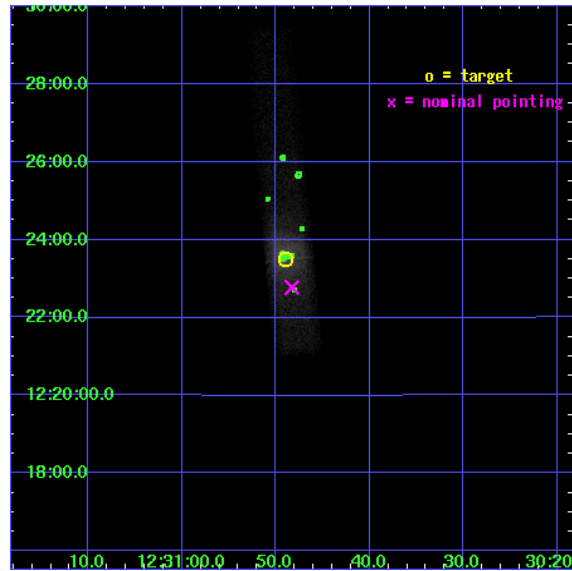
L2 Processing Date : Mar 18 2006

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# 1 Front

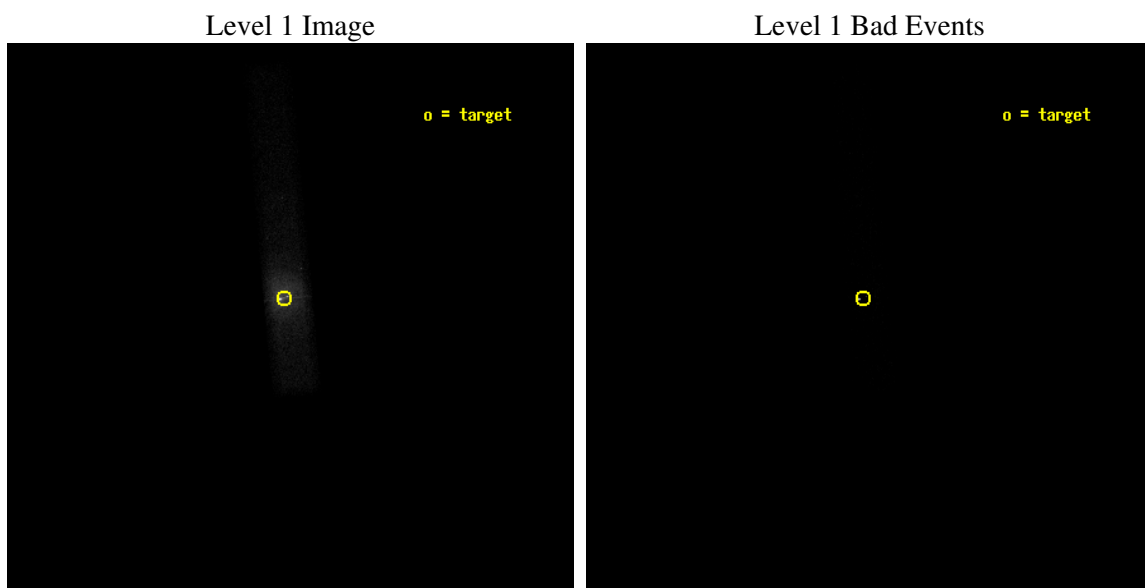
seq_num	701165
obs_id	5743
title	The X-ray Flares of Knot 'HST-1' in the M87 Jet (monitoring)
observer	Dr. John Biretta
object	M87
dtcycle	0
cycle	P
ra_targ	187.704167
dec_targ	12.391667
ra_nom	187.70128066648
dec_nom	12.379463805041
roll_nom	264.65723556681
revision	2
ontime	5151.2000767589
livetime	4671.8665669861
ontime7	5151.2000767589
l2events	57934



## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

obi_num	1
ascdsver	7.6.7.1
caldbver	3.2.1
date	2006-03-18T22:10:42
revision	2

sched_exp_time	5000.000000
ontime	6144.069091022
ontime7	6144.069091022
l1events	72058

### 2.1.4 Events

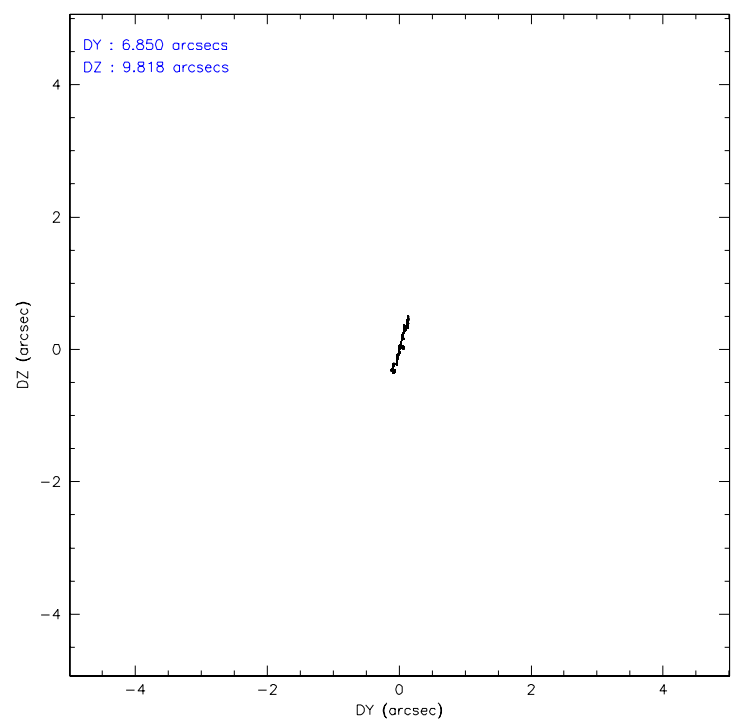
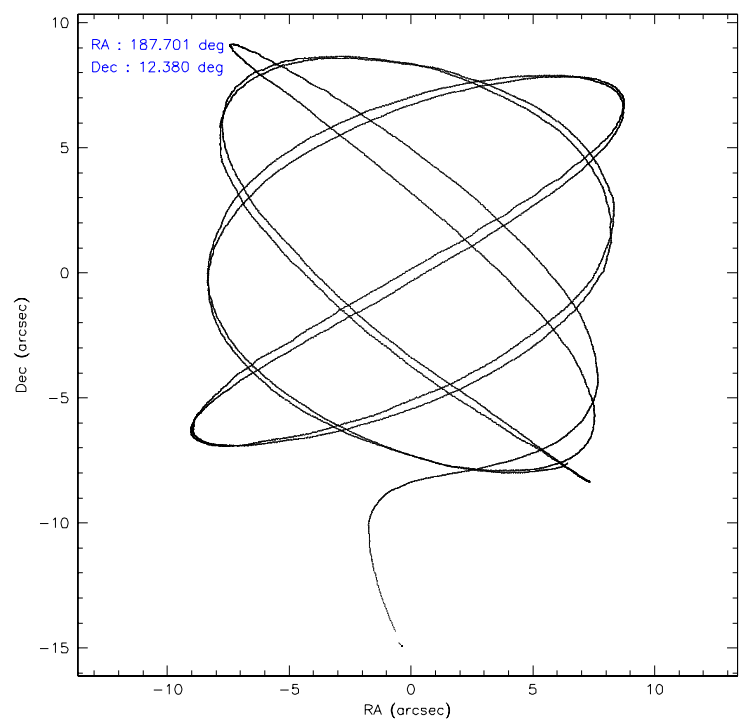
	<b>ccd 7</b>
level 1 events	72058
rejected events	13509
rejected %	18%

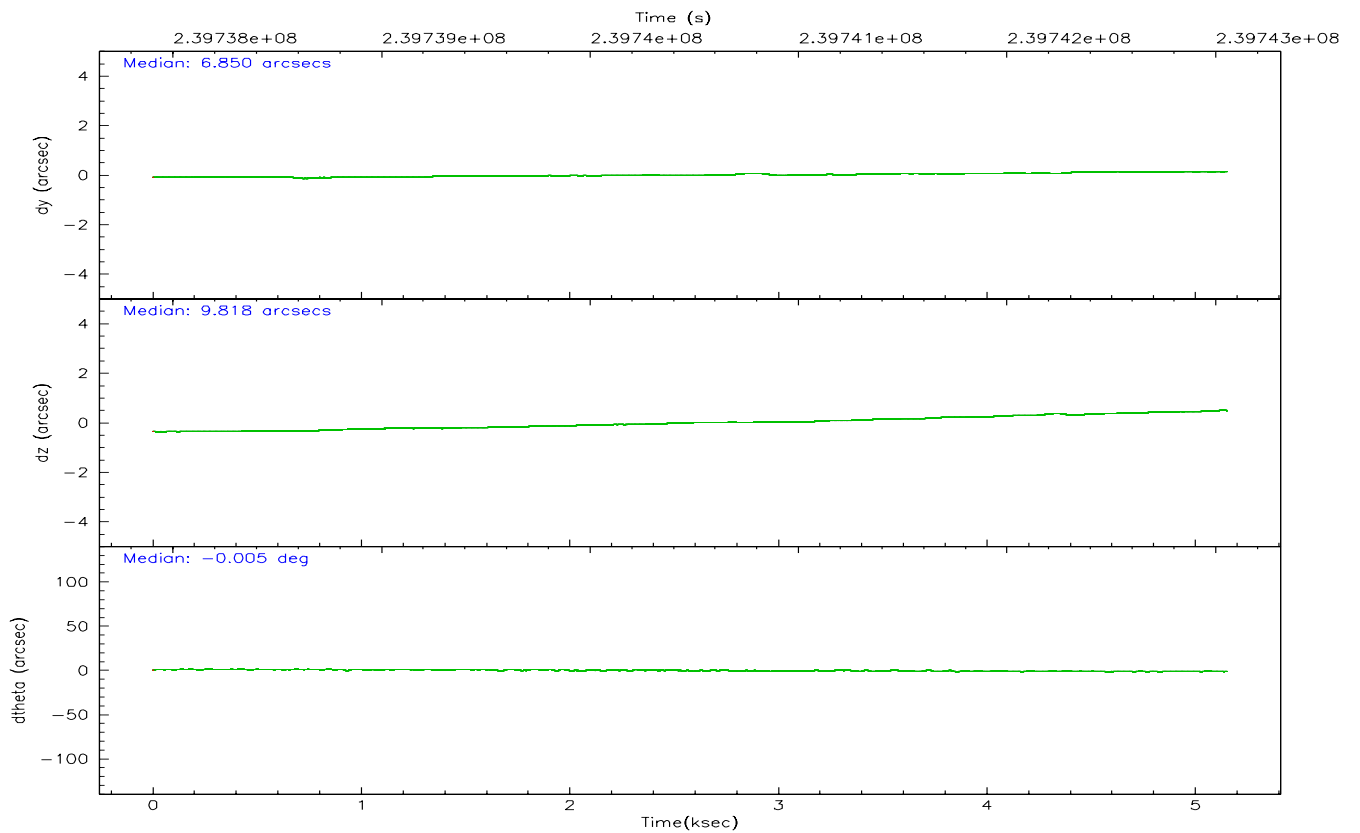
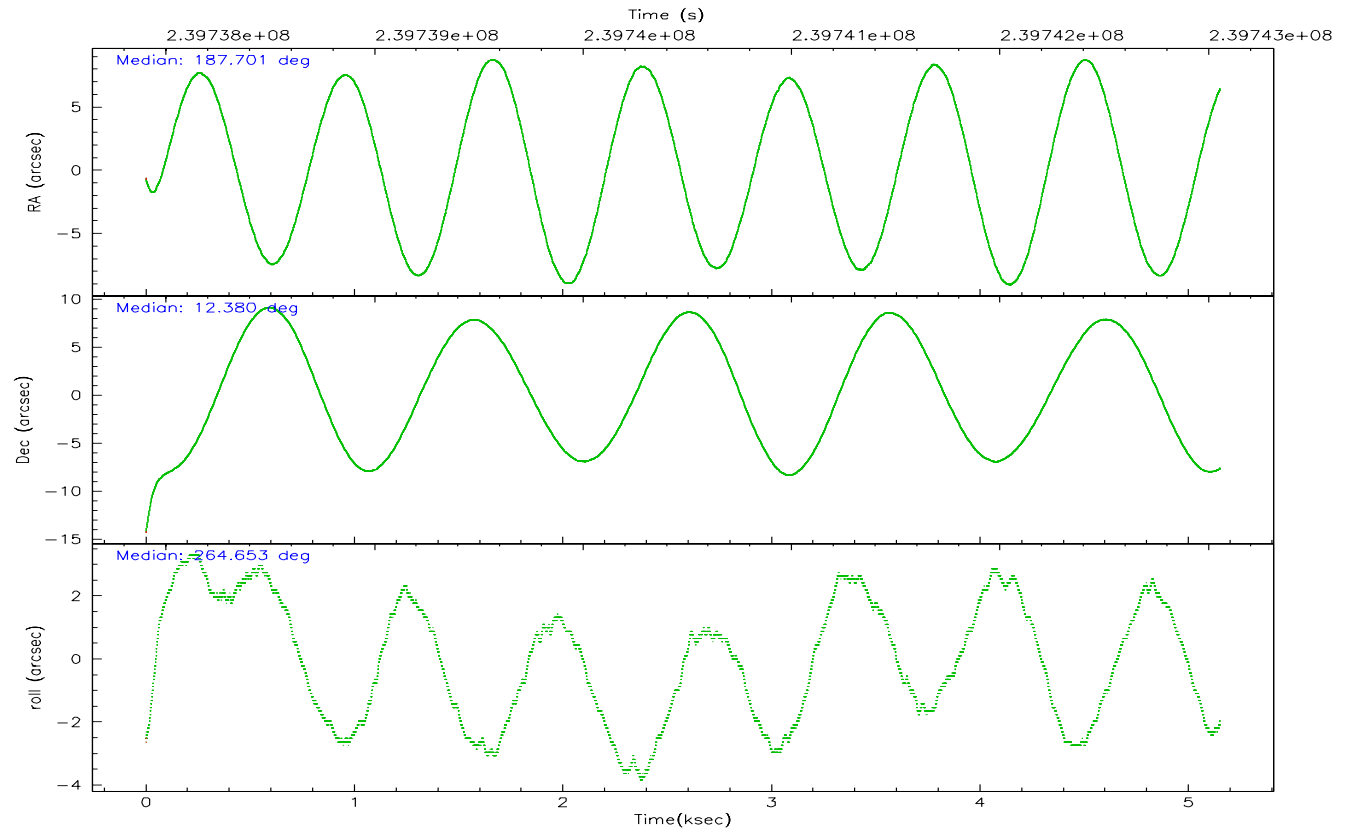
	<b>ccd 7</b>
grade 0 events	17264
	23%
grade 1 events	410
	0%
grade 2 events	15816
	21%
grade 3 events	6707
	9%
grade 4 events	6402
	8%
grade 5 events	2563
	3%
grade 6 events	14664
	20%
grade 7 events	8232
	11%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-7	ACIS-7	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	1/8	1/8
Pointing RA	187.689279	187.7012806664848	Subarray start row	0	449
Pointing Dec	12.404121	12.37946380504085	Subarray row count	1024	128
Pointing Roll	264.503195	264.6572355668099	Alternating exposures requested	N	N
Window start time	239241664.184000	239241664.184000	Primary exposure time	0.000000	0.4
Window stop time	239846464.184000	239846464.184000			
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	239738057.184000	239736808.91722			
Observation start date	2005-08-06T17:53:13	2005-08-06T17:33:28			
Observation end time	239743057.184000	239744578.93007			
Observation end date	2005-08-06T19:16:33	2005-08-06T19:42:58			
Read mode	TIMED	TIMED			

### 2.3 Aspect





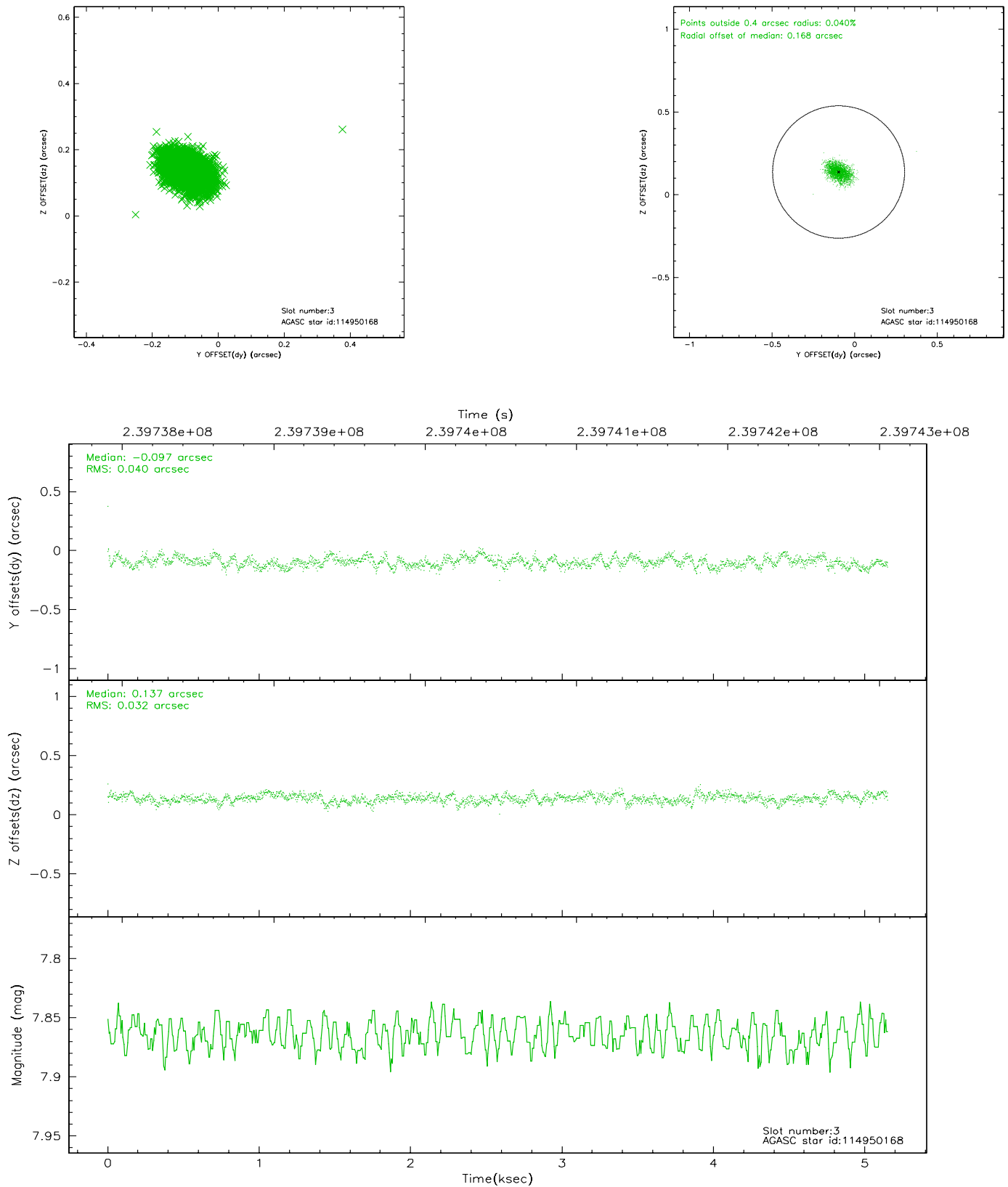
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	1257	-0.046	-0.011	0.009	0.013	0.000000	0.000000	-759.62	-1731.09
1	FID	ACIS-S-4	7.21	1257	0.060	0.025	0.005	0.009	0.000000	0.000000	2153.20	176.27
2	FID	ACIS-S-5	7.23	1257	-0.045	-0.005	0.008	0.013	0.000000	0.000000	-1810.98	171.17
3	GUIDE	114950168	7.86	2514	-0.097	0.137	0.054	0.087	187.143398	12.117441	1209.73	-1813.68
4	GUIDE	114950584	9.23	2510	0.002	0.277	0.083	0.134	187.487323	11.827248	2135.83	-509.95
5	GUIDE	114952824	8.56	2514	-0.025	-0.050	0.070	0.113	187.703904	12.486727	-299.92	22.16
6	GUIDE	114955056	8.34	2513	0.049	-0.105	0.055	0.090	187.914001	12.127854	913.90	882.42
7	GUIDE	114955568	7.54	2513	0.072	-0.263	0.080	0.126	187.061916	11.826551	2279.69	-2001.44

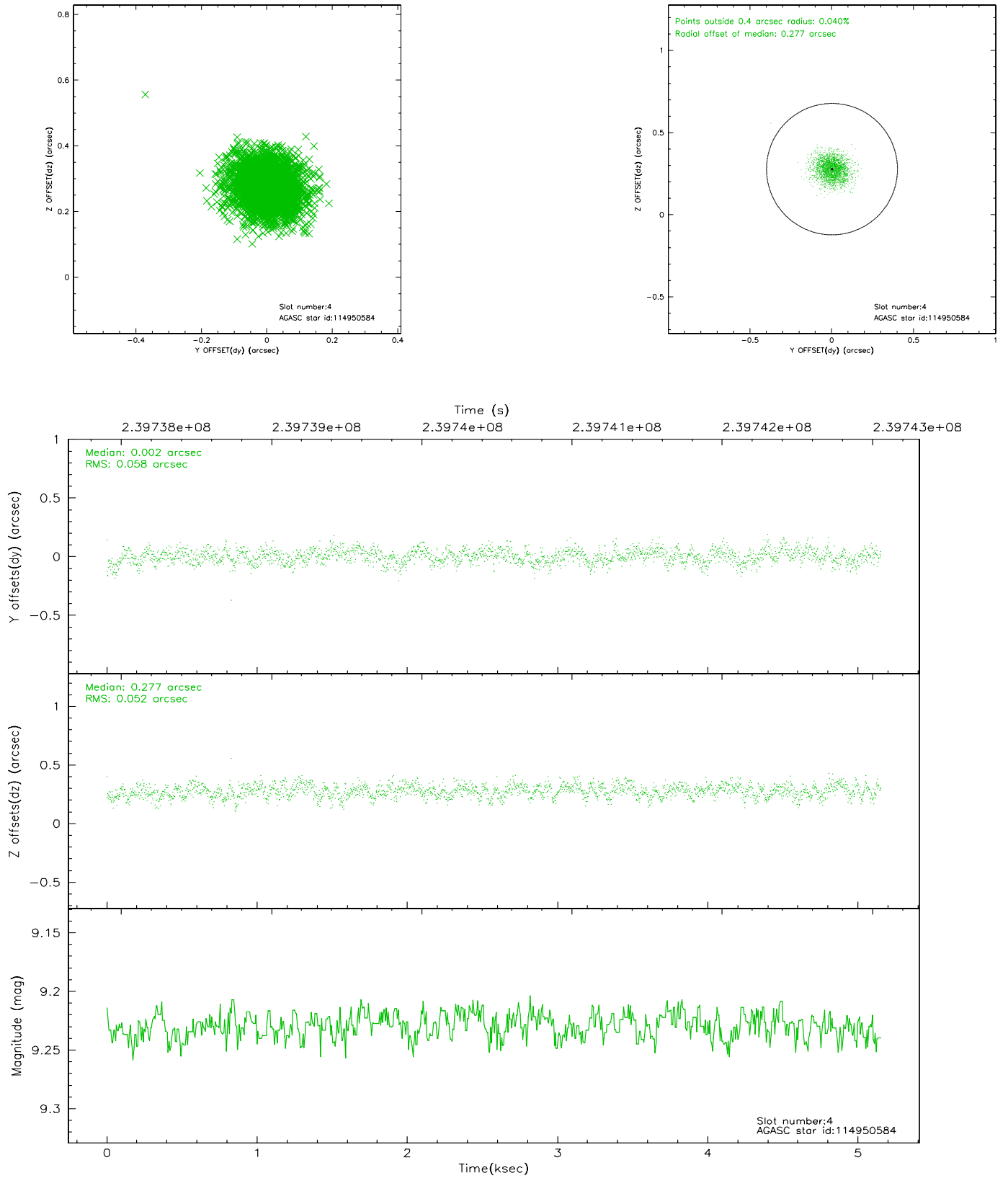


## 2.4 Star Slots

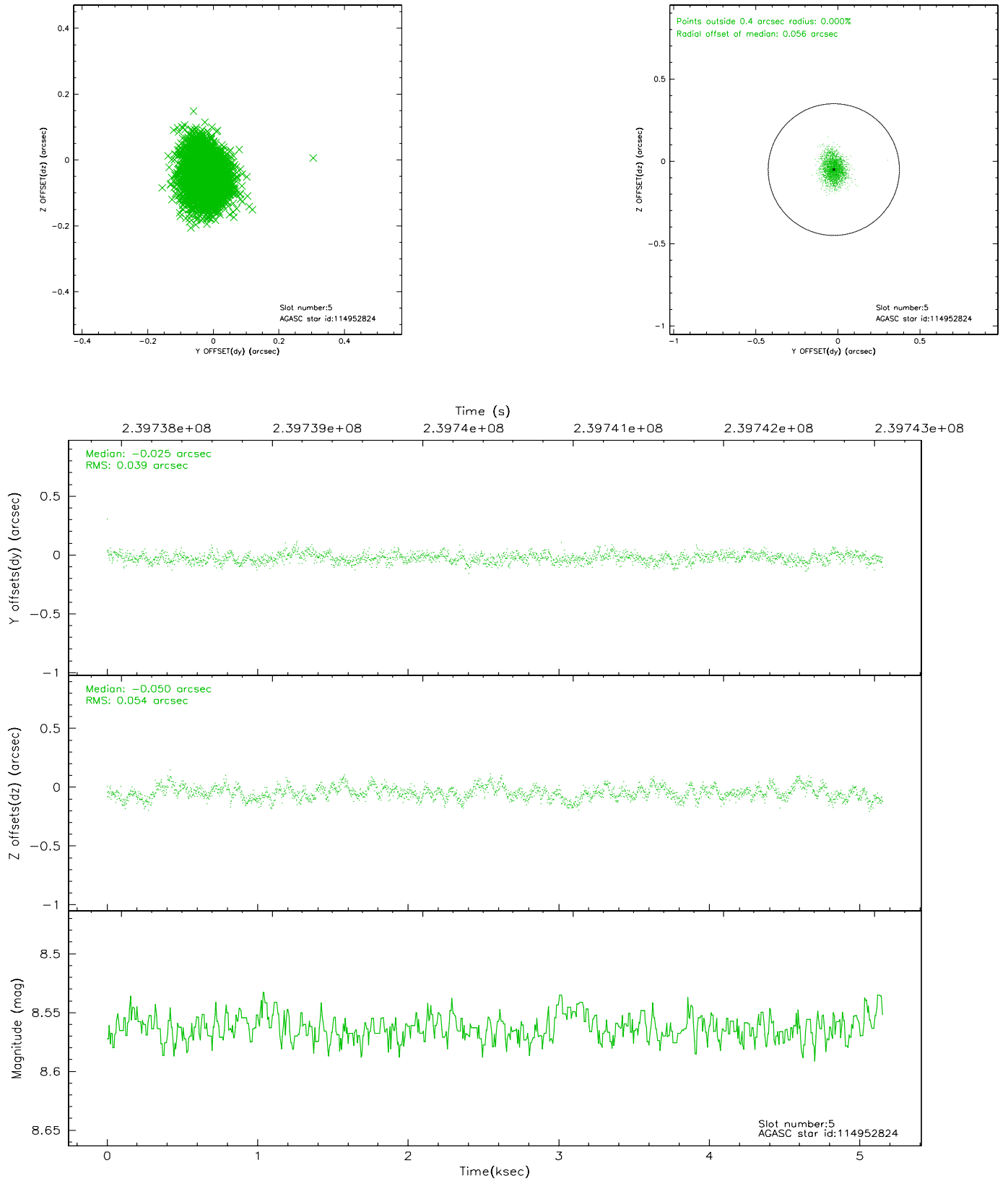
### 2.4.1 Slot 3



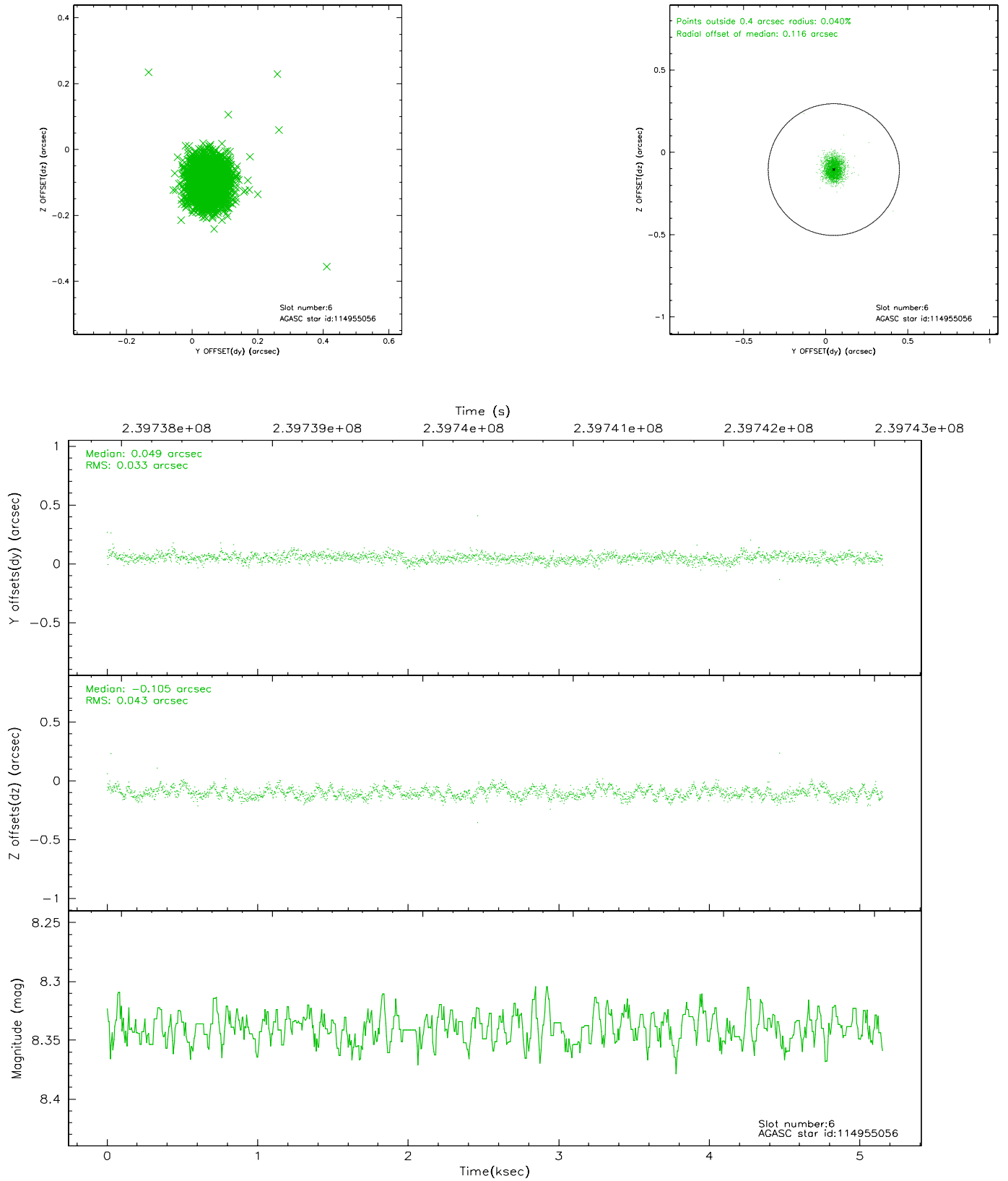
## 2.4.2 Slot 4



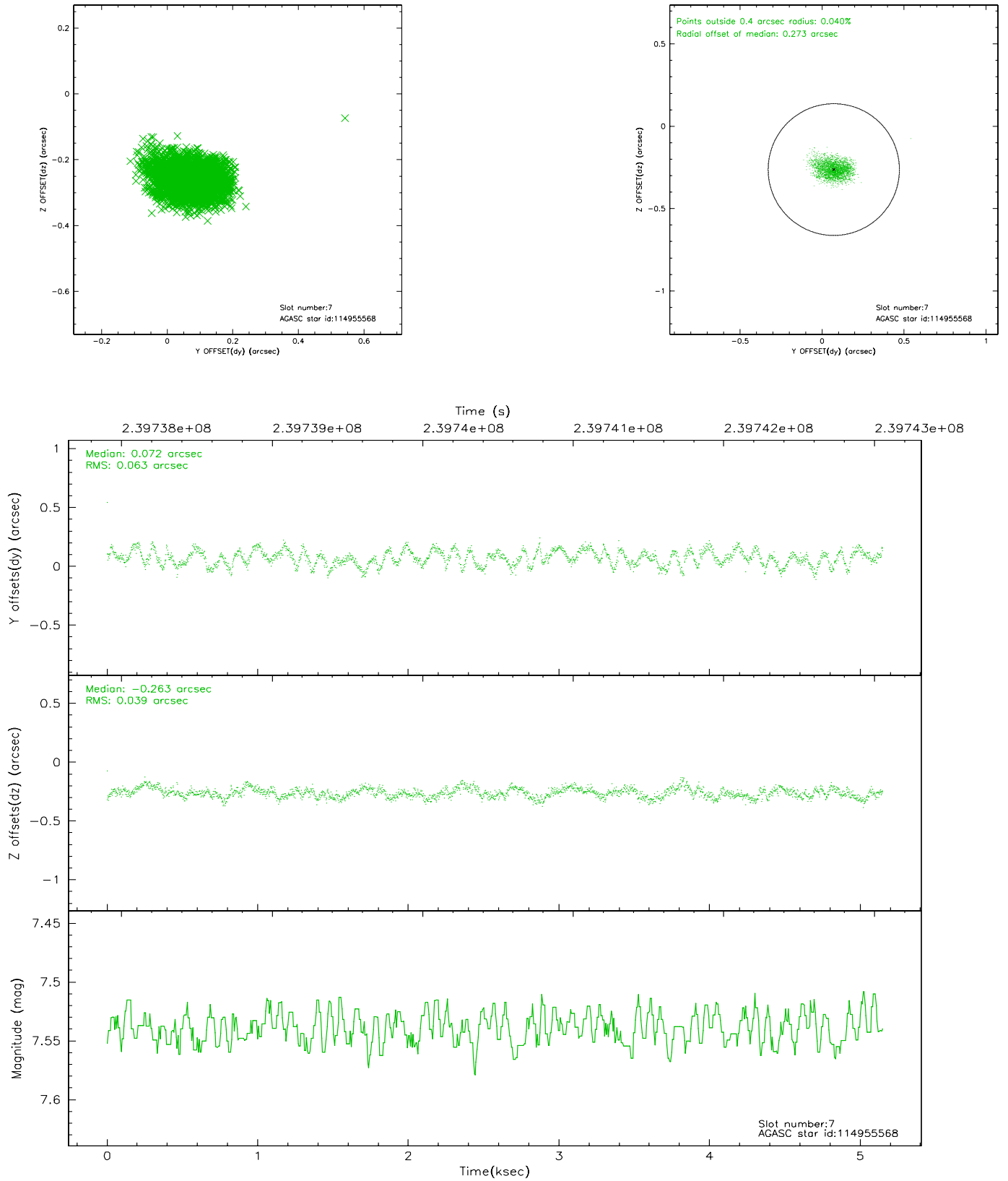
### 2.4.3 Slot 5



## 2.4.4 Slot 6

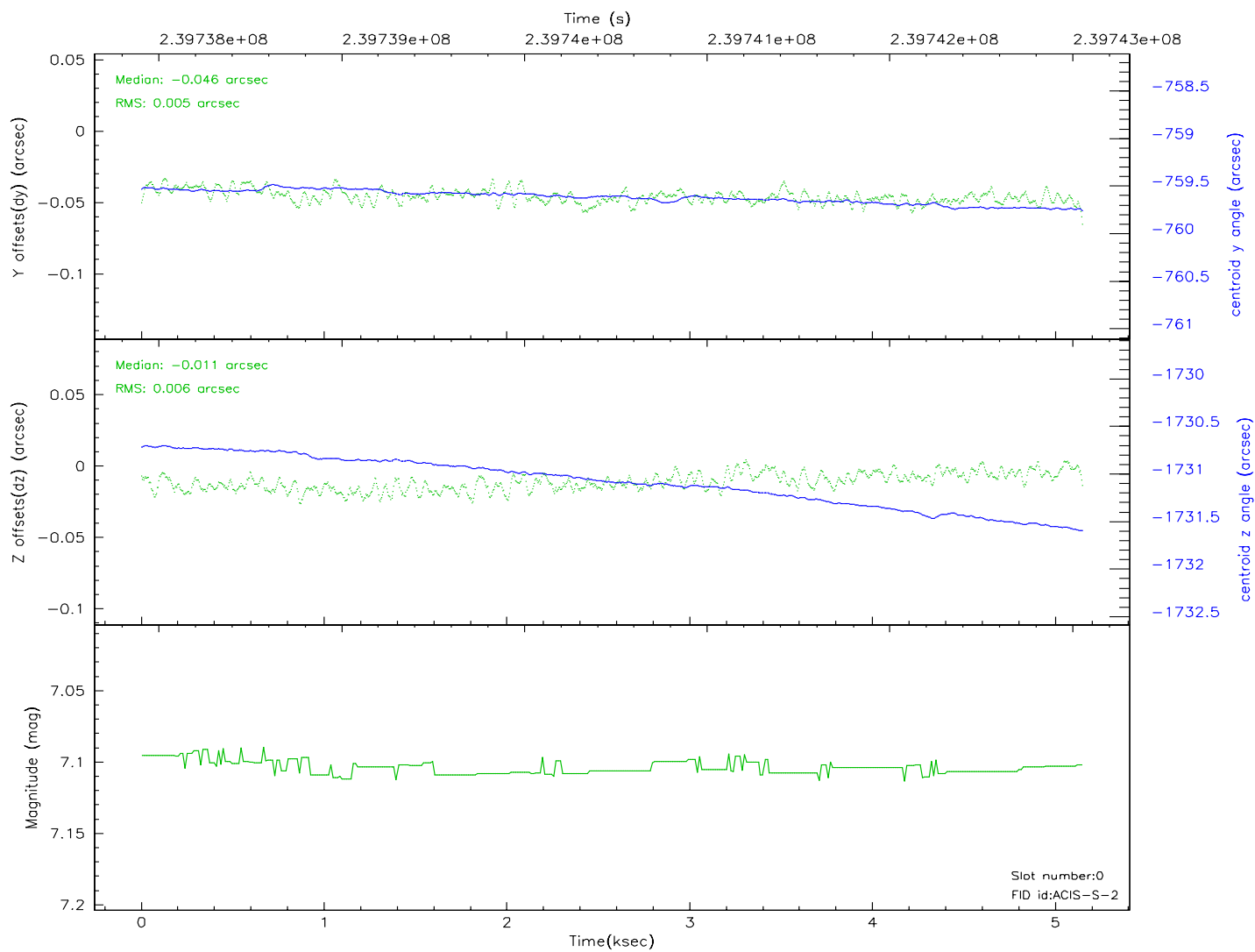
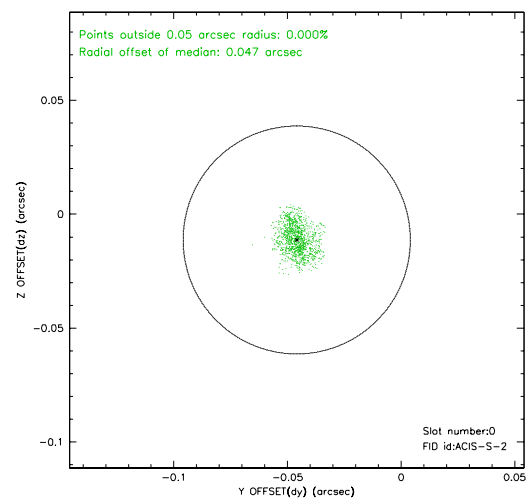
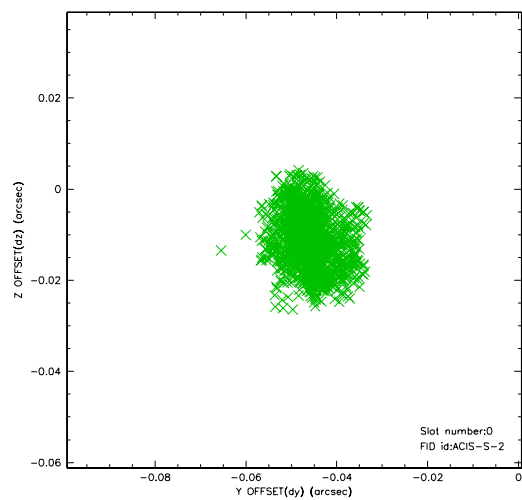


## 2.4.5 Slot 7

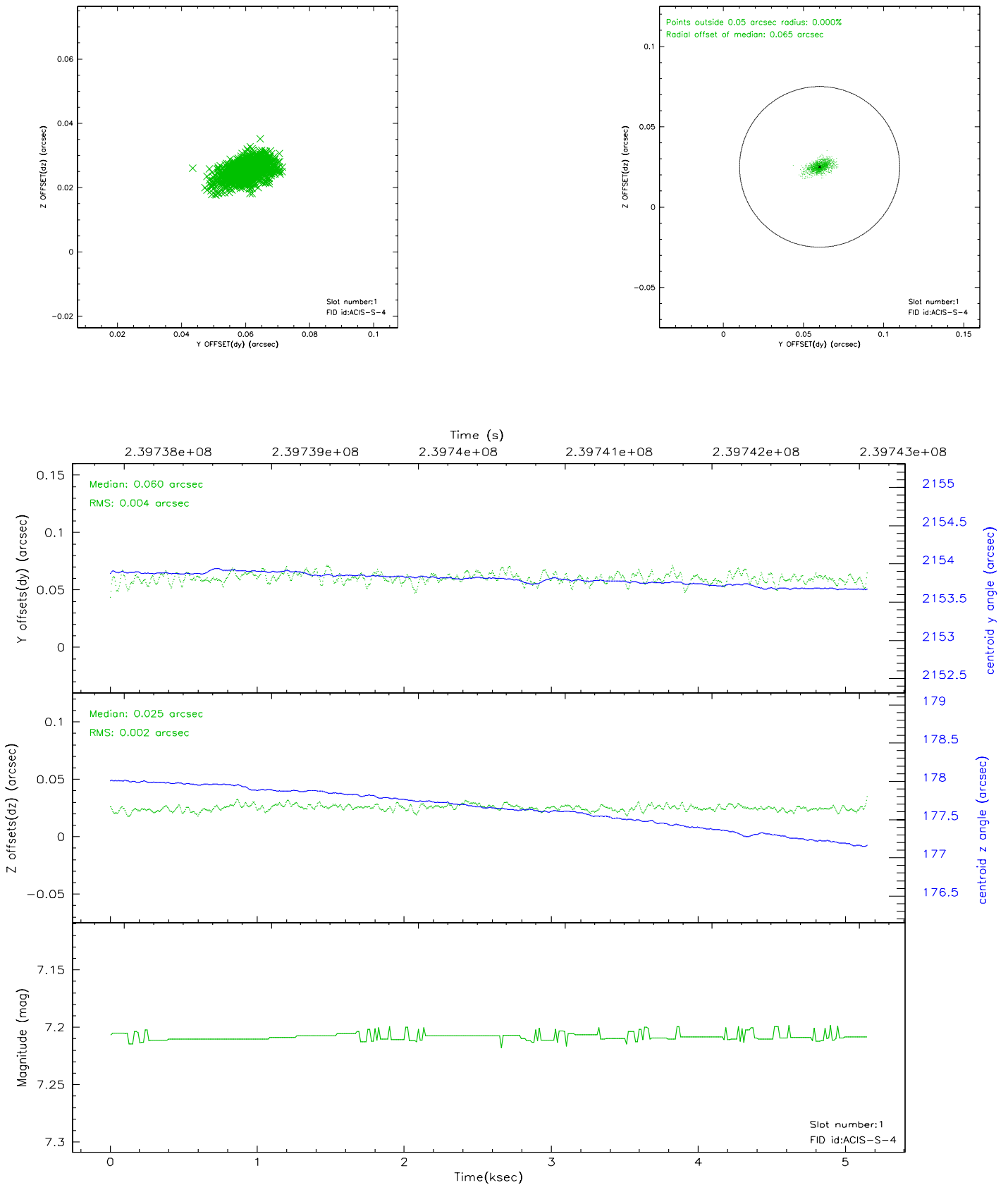


## 2.5 FID Slots

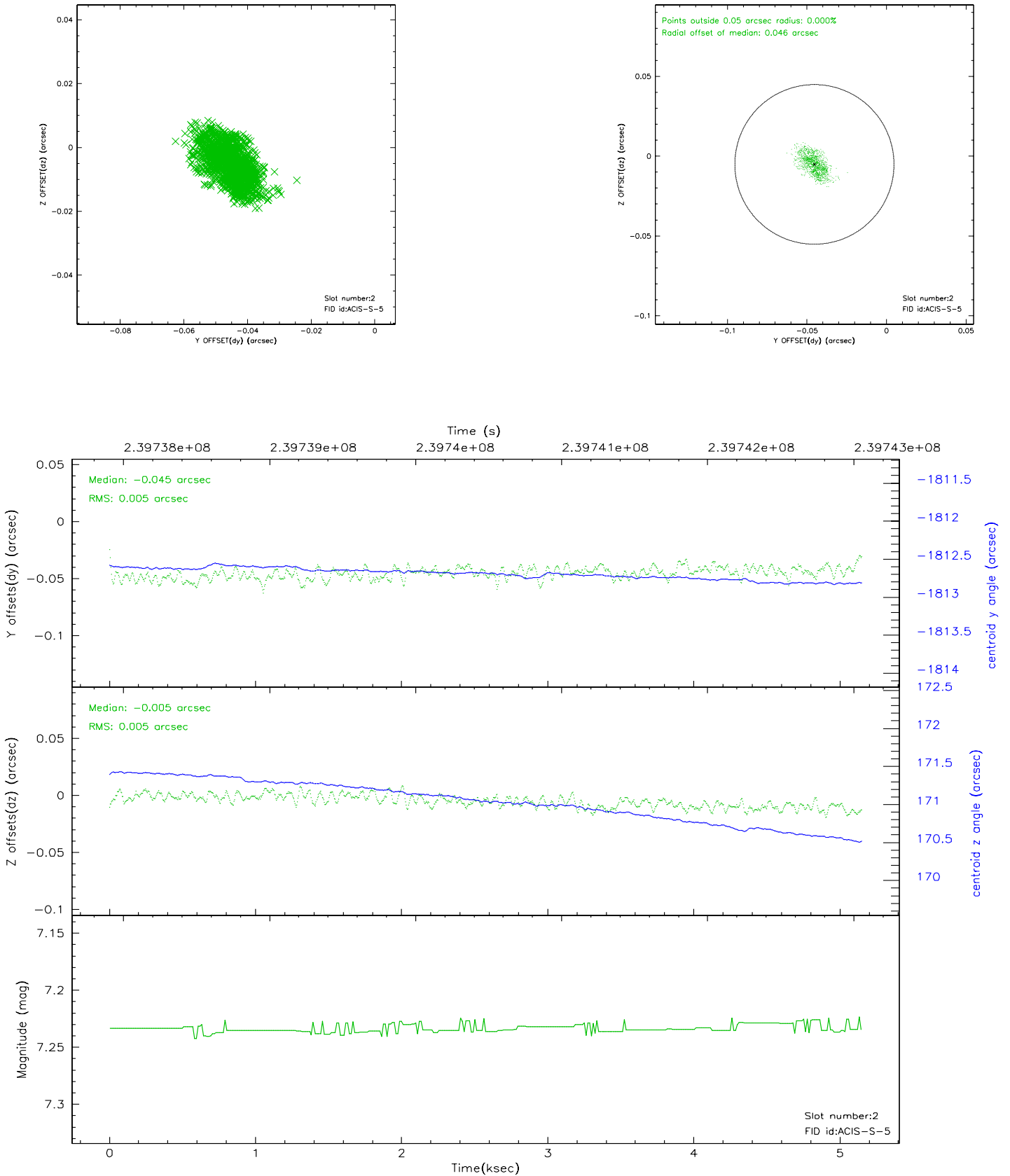
### 2.5.1 Slot 0



## 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)	2006.04.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.15120007

## A.2 Comments

Charge time:

New charge time is less than charge time used in previously distributed version

NEW CHARGE TIME = 5.151200 ks, 1 Obis

PREVIOUS CHARGE TIME = 6.144069 ks, 1 Obis.

Window constraint met. The ACIS focal plane temperature decreases by a degree over the course of the observation.