

# V&V Reference Report

## L2 ASCDS Version : 8.5.1

Observation 5416 - L2 Version 3  
Chandra X-Ray Center

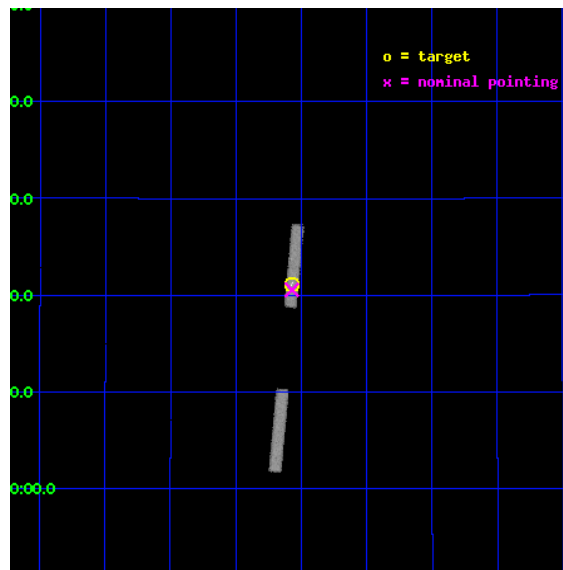
L2 Processing Date : Dec 16 2012

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# 1 Front

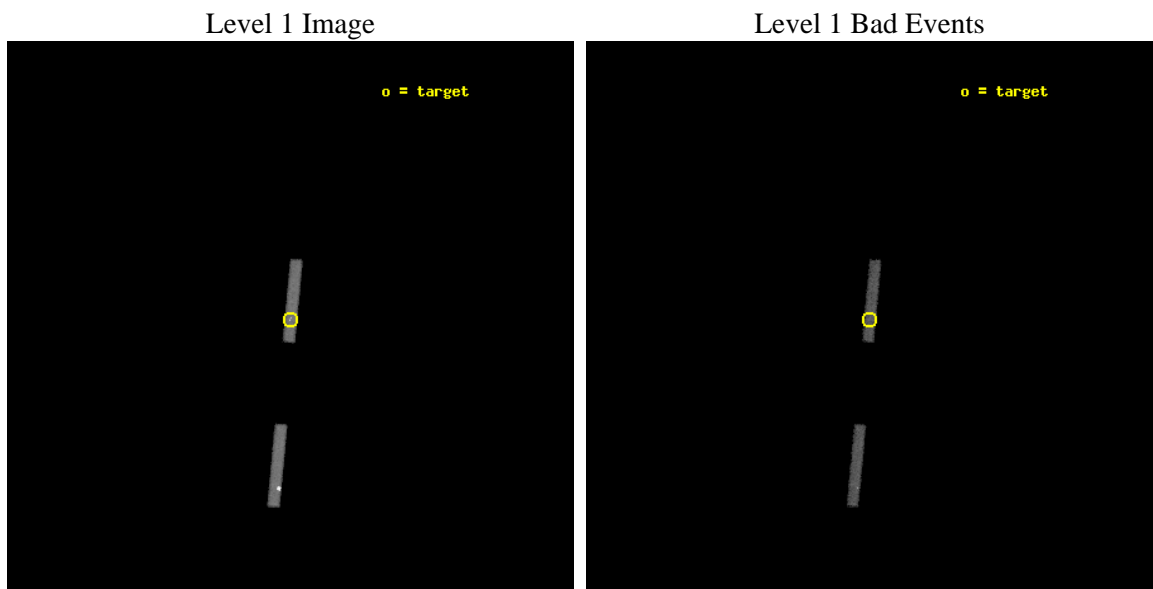
seq_num	200349	Sequence number
obs_id	5416	Observation id
title	Untangling the Accretion Spots on Classical T Tauri Stars	Proposal
observer	Dr. Andisheh Mahdavi	Principal investigator
object	GK Tau	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	68.39375	Observer's specified target RA [deg]
dec_targ	24.3525	Observer's specified target Dec [deg]
ra_nom	68.392884156527	Nominal RA [deg]
dec_nom	24.342855955233	Nominal Dec [deg]
roll_nom	275.36059530286	Nominal Roll [deg]
revision	3	Processing version of data
ontime	15028.0	Sum of GTIs [s]
liveltime	13888.067425699	Livetime [s]
ontime5	15028.0	Sum of GTIs [s]
ontime7	15028.0	Sum of GTIs [s]
l2events	18705	Number of level 2 events



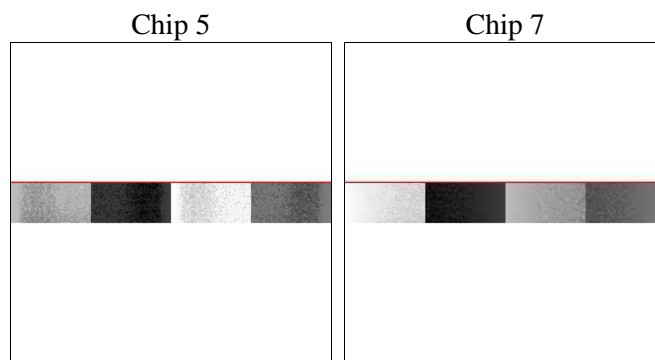
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	15000.000000	[s] Scheduled observation exposure time
ascdsver	8.5.1	Processing system revision	ontime	15028.0	Sum of GTIs [s]
caldsver	4.5.5	&#160	ontime5	15028.0	Sum of GTIs [s]
date	2012-12-15T21:14:55	Date and time of file creation	ontime7	15028.0	Sum of GTIs [s]
revision	3	Processing version of data	l1events	65908	Number of level 1 events

### 2.1.4 Events

	ccd 5	ccd 7
level 1 events	45409	20499
rejected events	10542	10248
rejected %	23%	49%

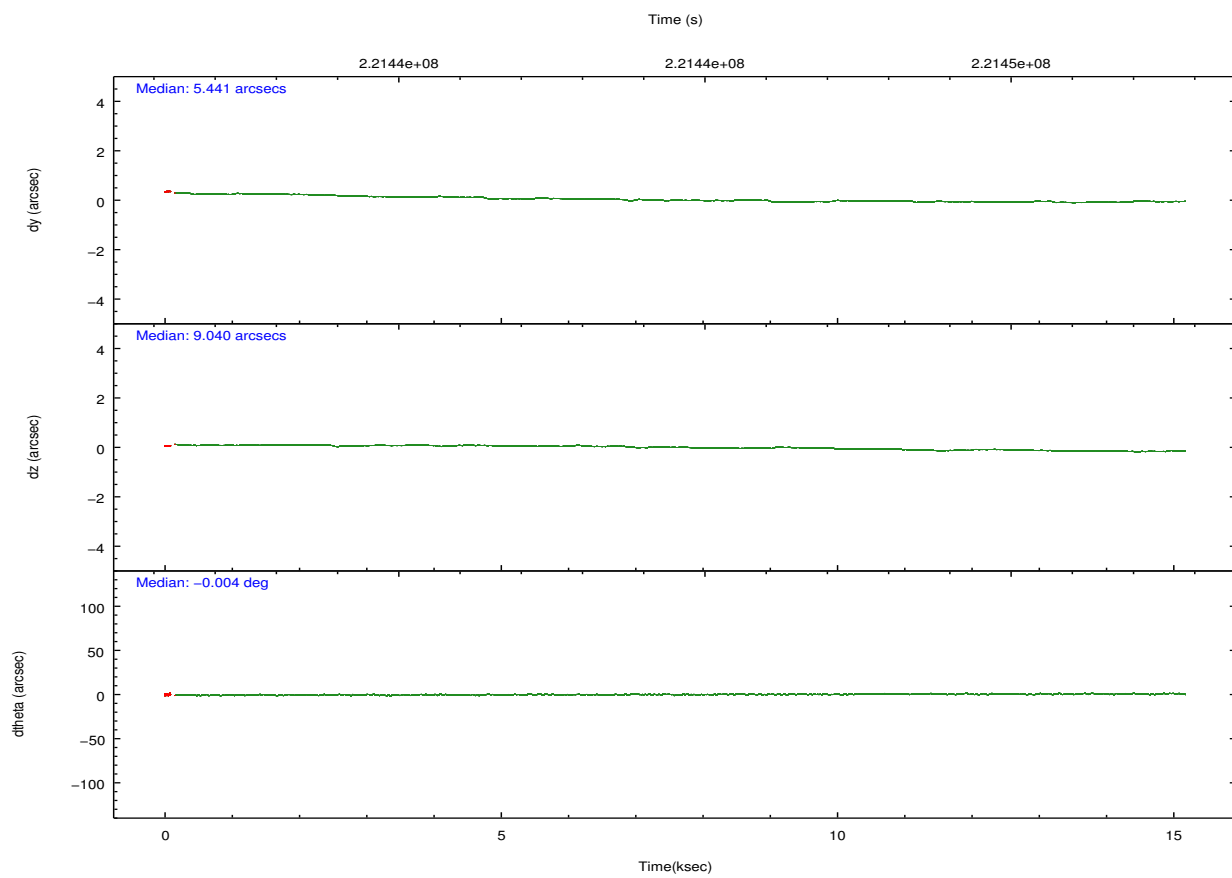
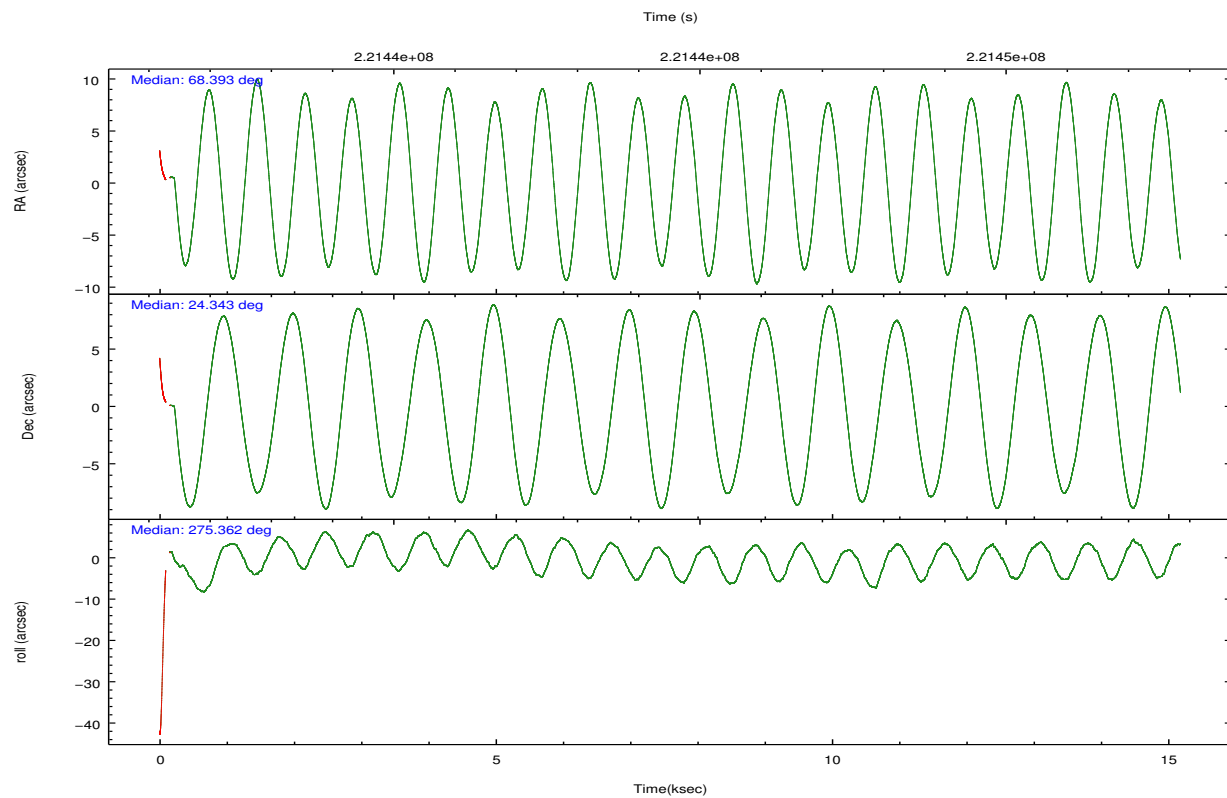
	ccd 5	ccd 7
grade 0 events	25075	1465
	55%	7%
grade 1 events	77	22
	0%	0%
grade 2 events	4232	2153
	9%	10%
grade 3 events	778	1268
	1%	6%
grade 4 events	788	1236
	1%	6%
grade 5 events	1693	1718
	3%	8%
grade 6 events	4353	4252
	9%	20%
grade 7 events	8413	8385
	18%	40%



## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-57	ACIS-57	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
[deg] Pointing RA	68.375245	68.39288415652727	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	24.364853	24.3428559552326	Subarray start row	449	449
[deg] Pointing Roll	275.211273	275.3605953028555	Subarray row count	128	128
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	0.5
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	221437103.184000	221436379.67256			
Observation start date	2005-01-06T22:17:19	2005-01-06T22:06:19			
[s] Observation end time (MET)	221452103.184000	221452928.29831			
Observation end date	2005-01-07T02:27:19	2005-01-07T02:42:08			
Read mode	TIMED	TIMED			

## 2.3 Aspect

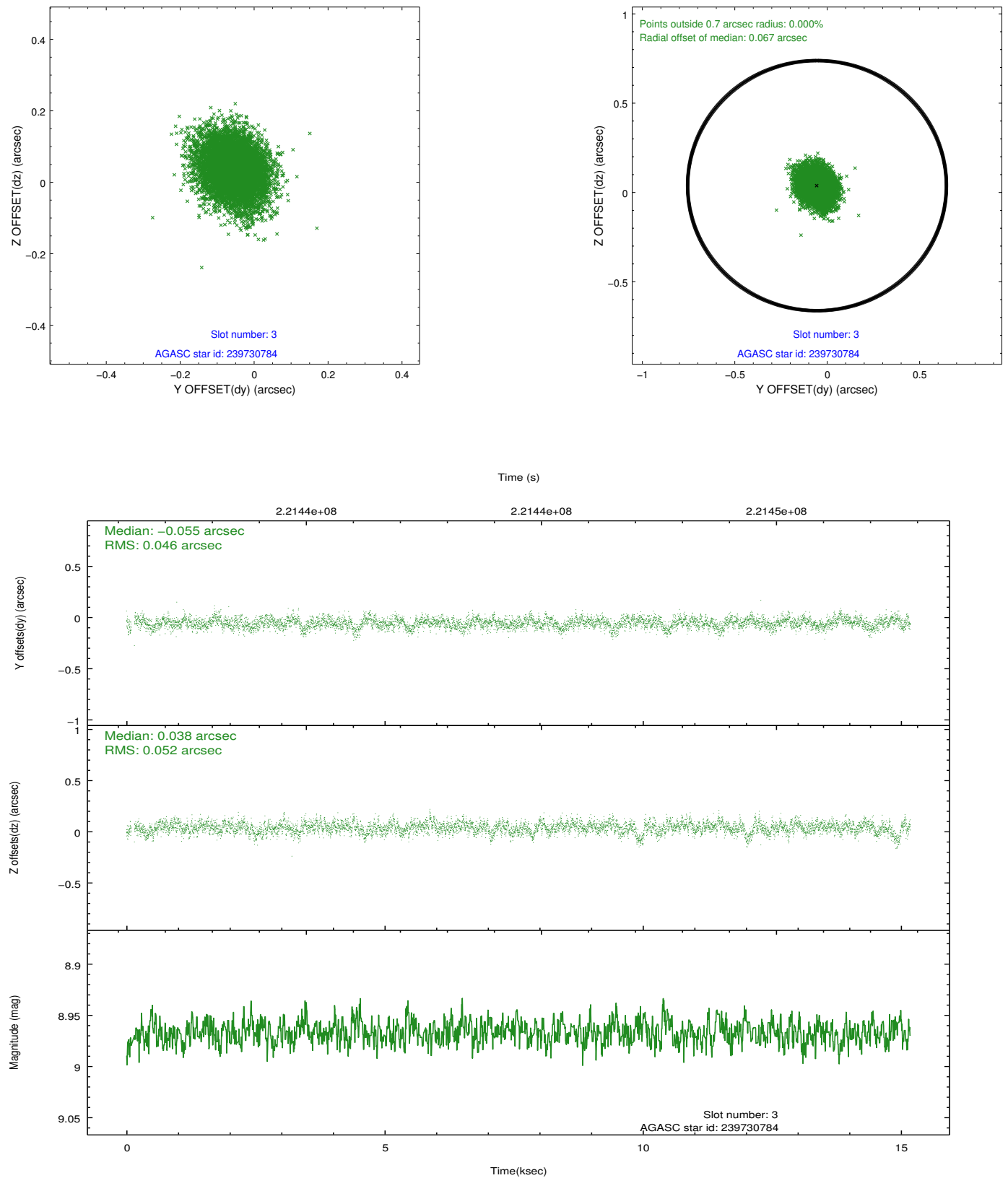


Slot Statistics

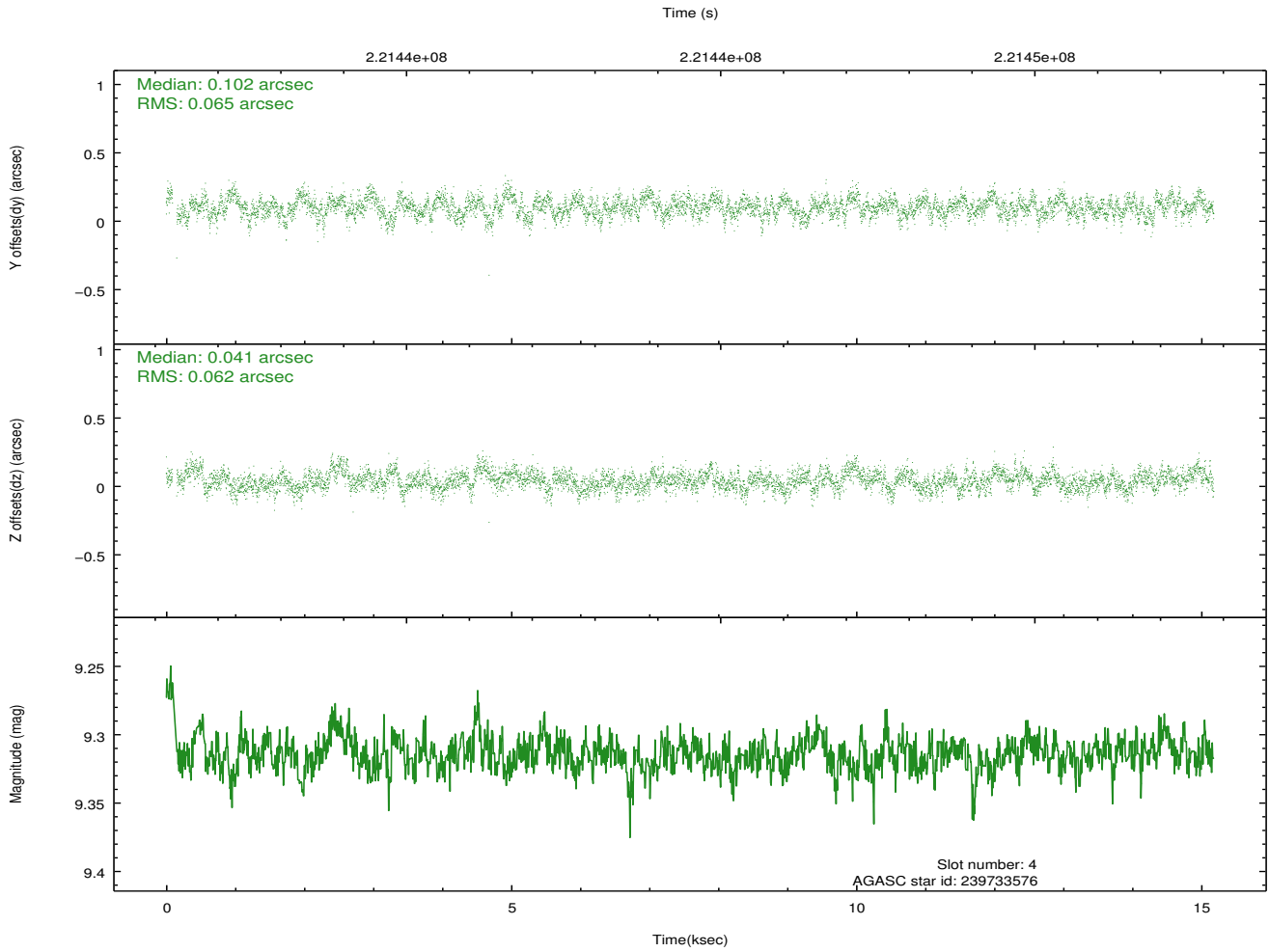
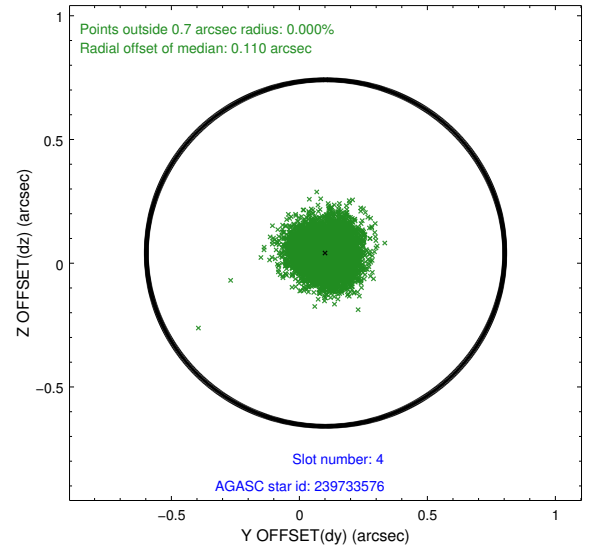
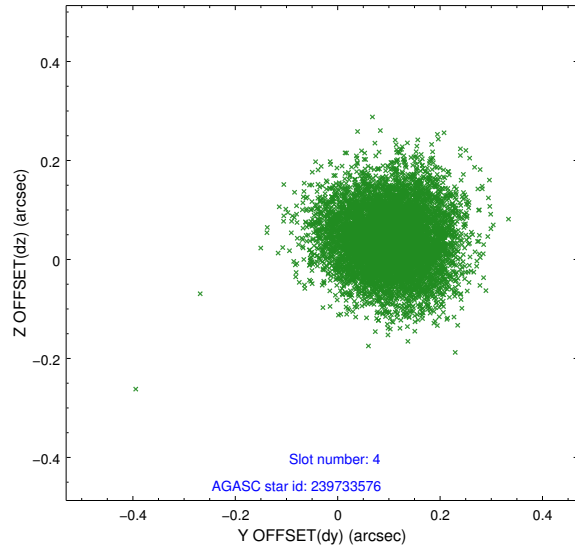
	status	id	mag	n_pts	med_dy	med_dz	drl
	FID	ACIS-S-2	7.10	3688	-0.061	-0.054	0.007
	FID	ACIS-S-4	7.21	3687	0.117	0.044	0.006
	FID	ACIS-S-5	7.23	3687	-0.087	0.019	0.007
	GUIDE	239730784	8.97	7371	-0.055	0.038	0.072
	GUIDE	239733576	9.31	7369	0.102	0.041	0.096
	GUIDE	240255024	9.20	7375	0.015	-0.114	0.090
	GUIDE	240263016	8.65	7375	-0.058	0.037	0.058
0.0000.0000.0000.0000000.00000000.000.00							

## 2.4 Star Slots

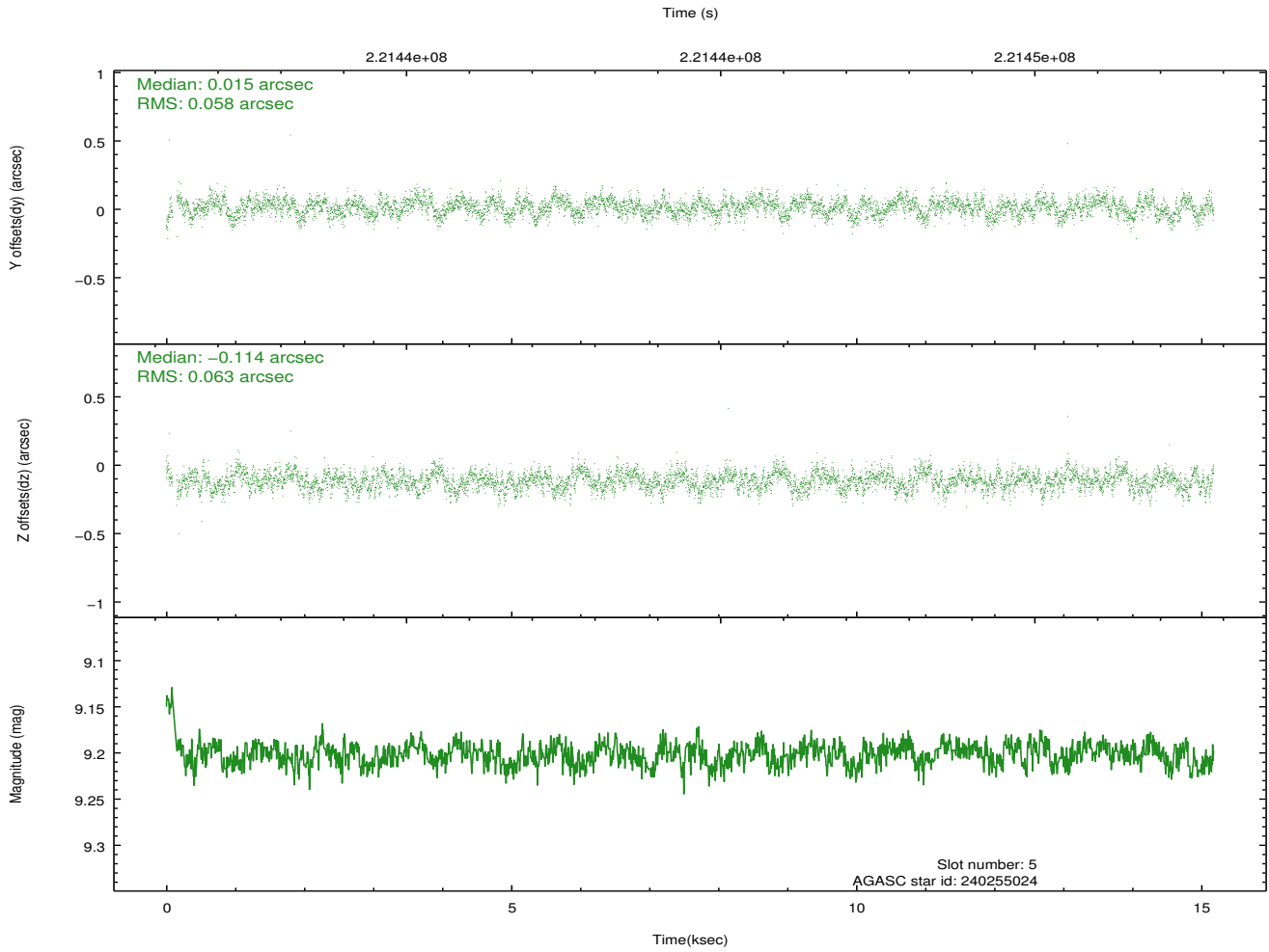
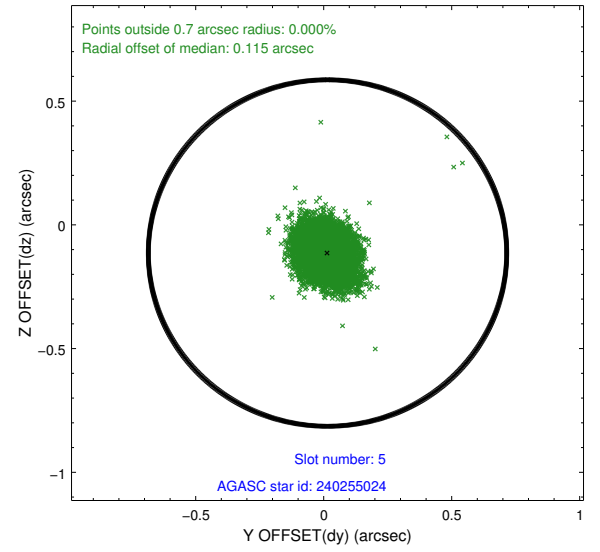
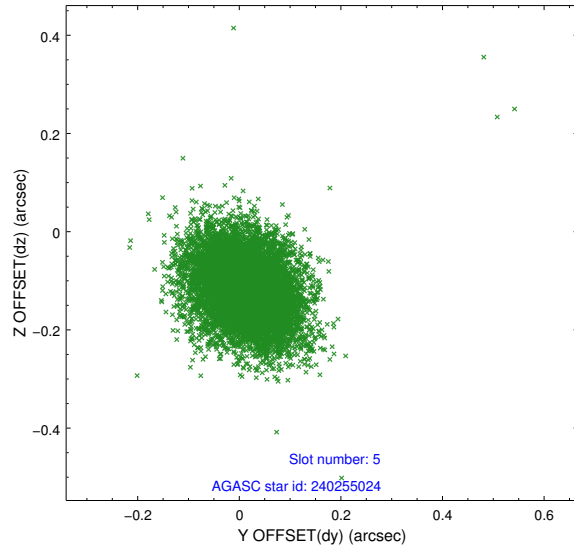
### 2.4.1 Slot 3



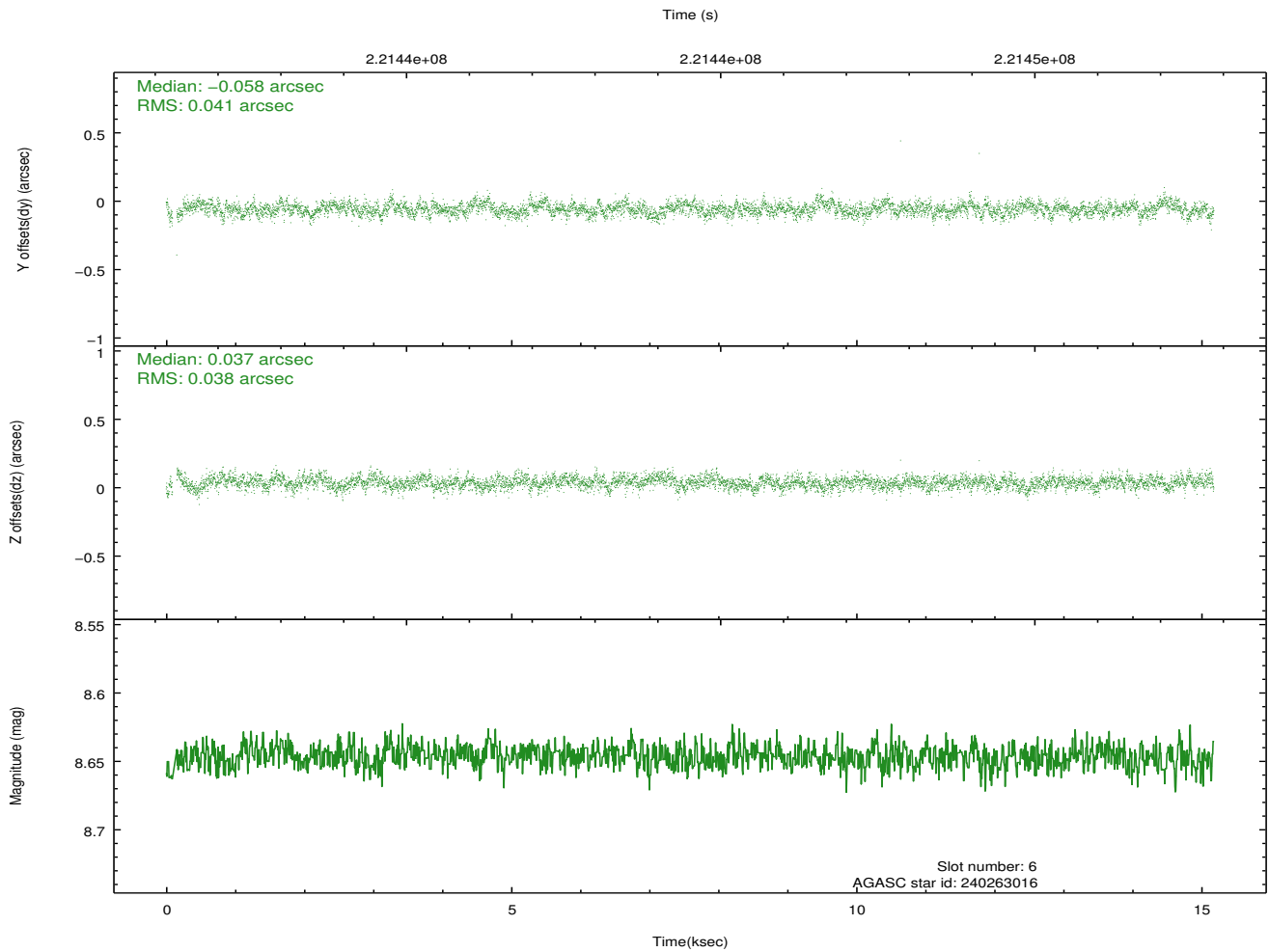
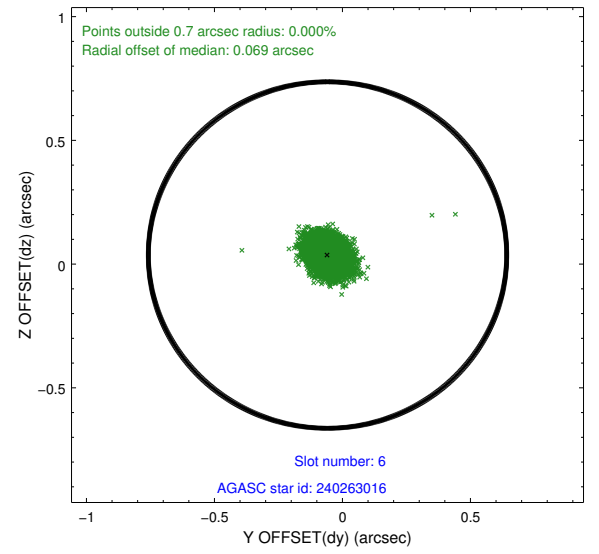
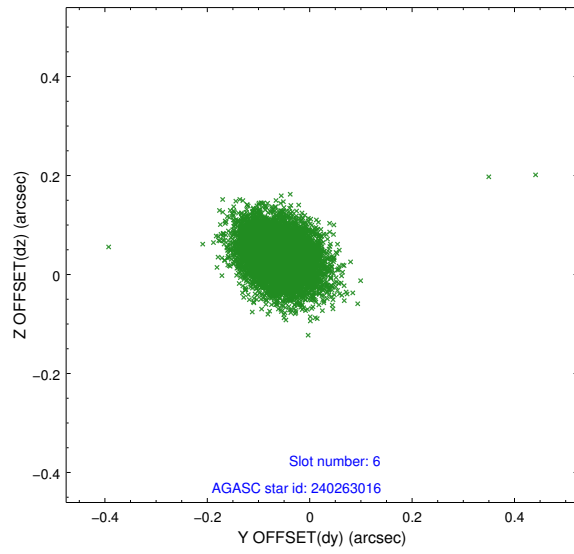
## 2.4.2 Slot 4



### 2.4.3 Slot 5



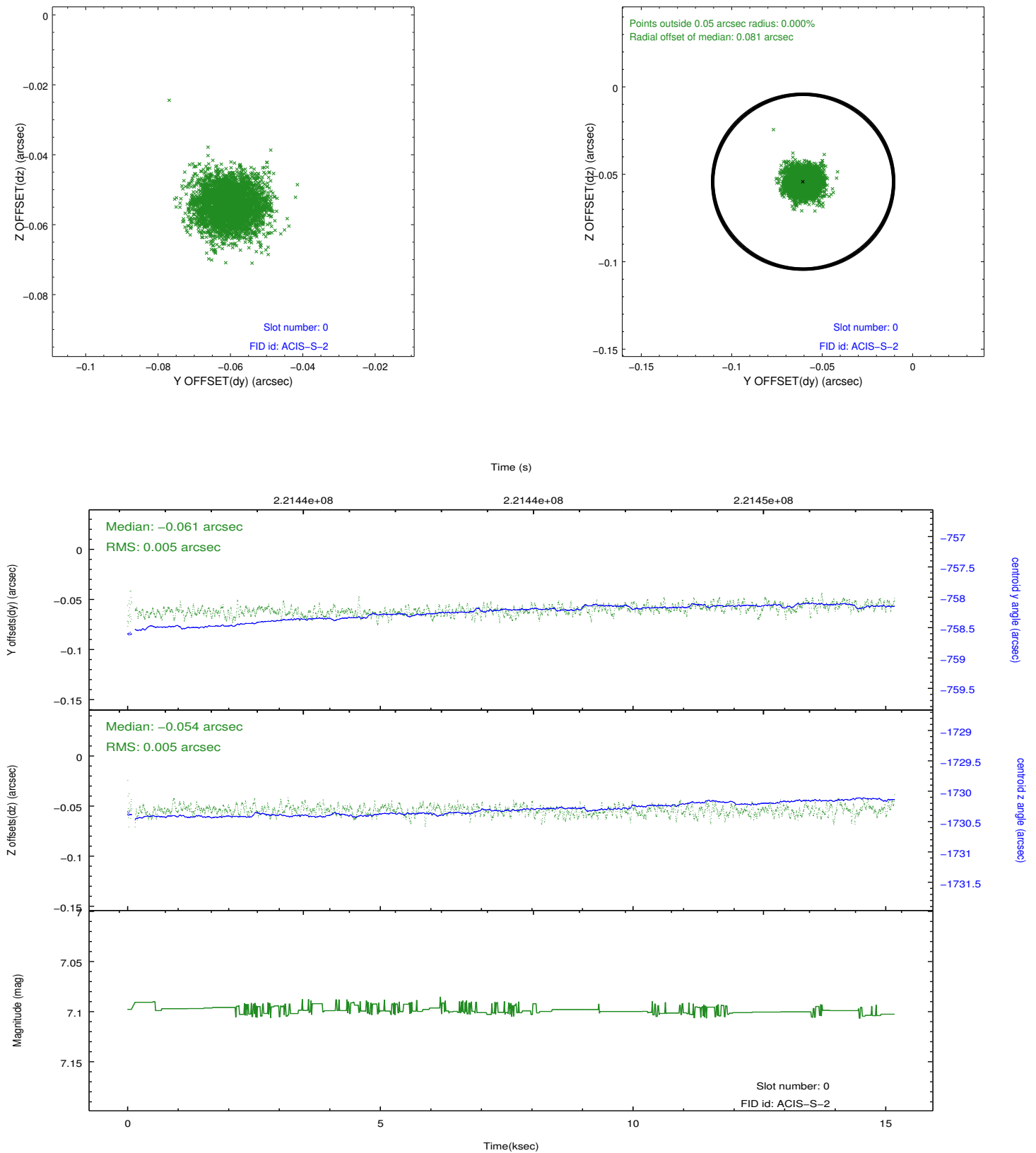
## 2.4.4 Slot 6



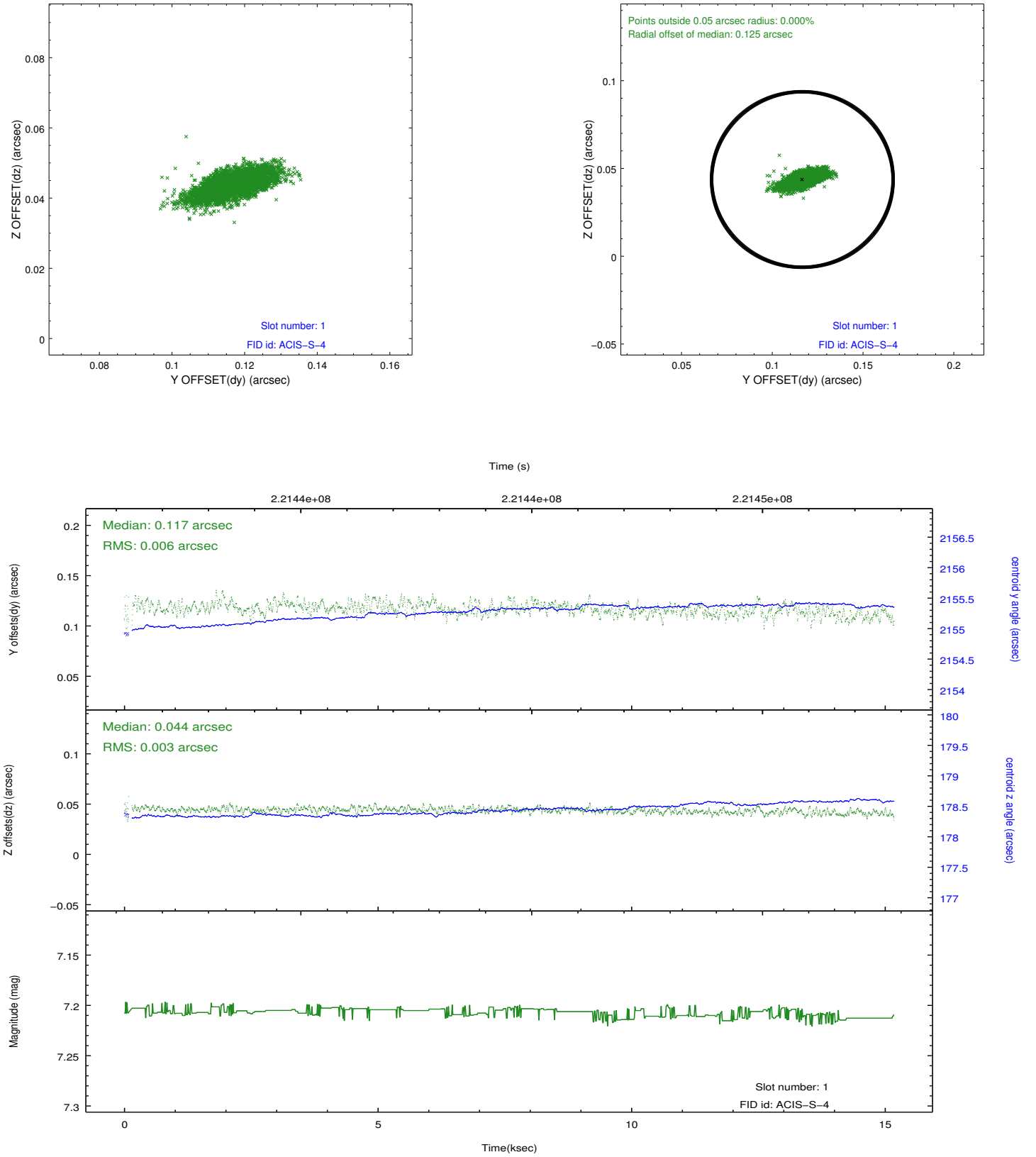


## 2.5 FID Slots

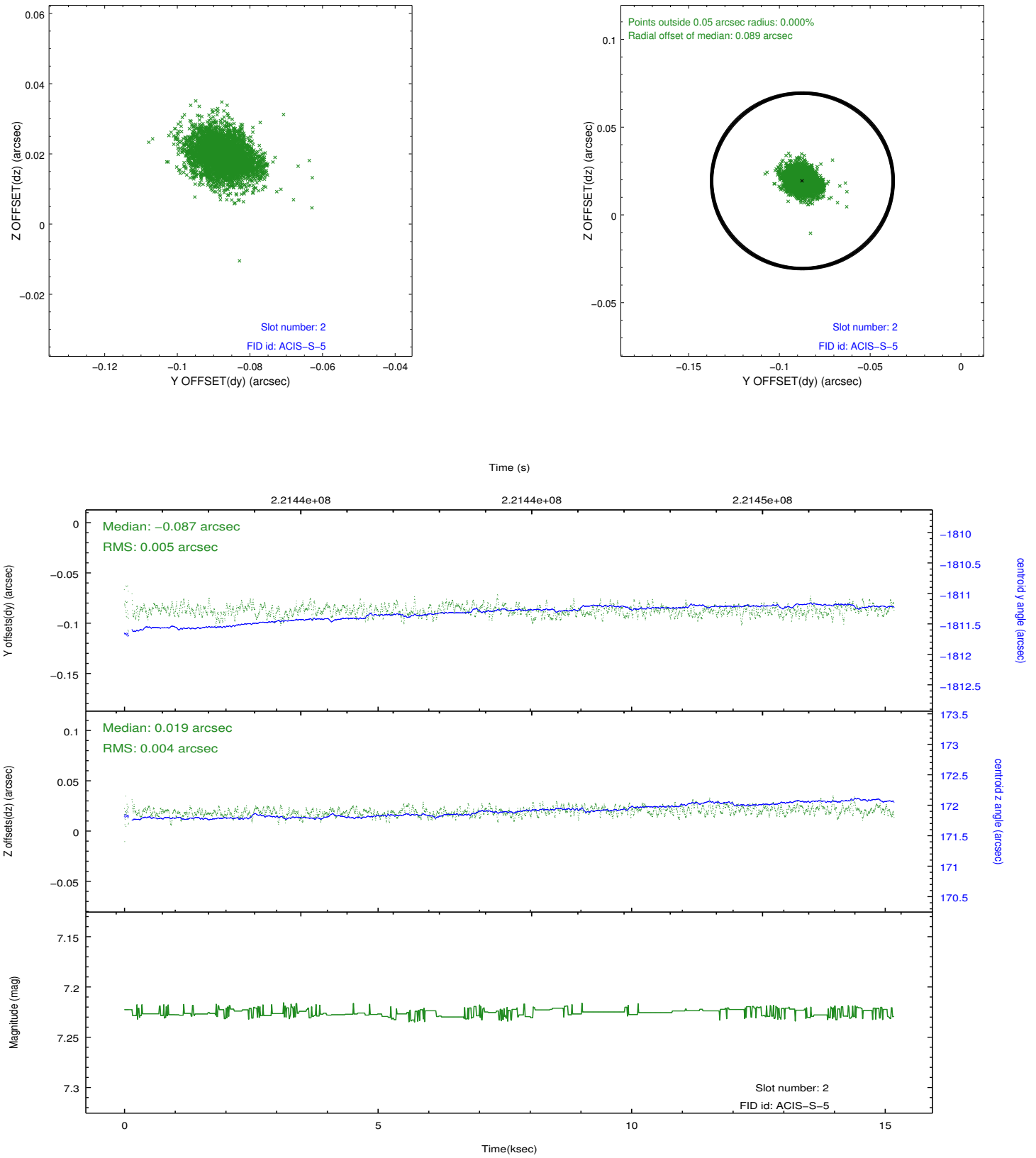
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



## A Summary

### A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2013.01.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	15.028

### A.2 Comments

Monitor constraint met.