

# V&V Reference Report

## L2 ASCDS Version : 10.2.4

Observation 16329 - L2 Version 1  
Chandra X-Ray Center

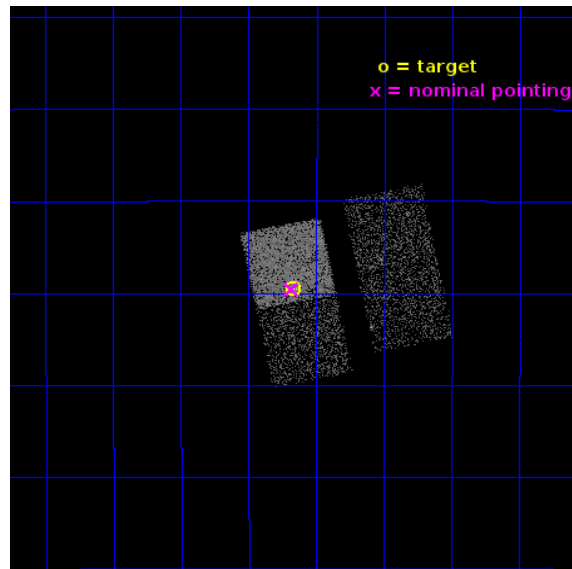
L2 Processing Date : Jul 25 2014

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# 1 Front

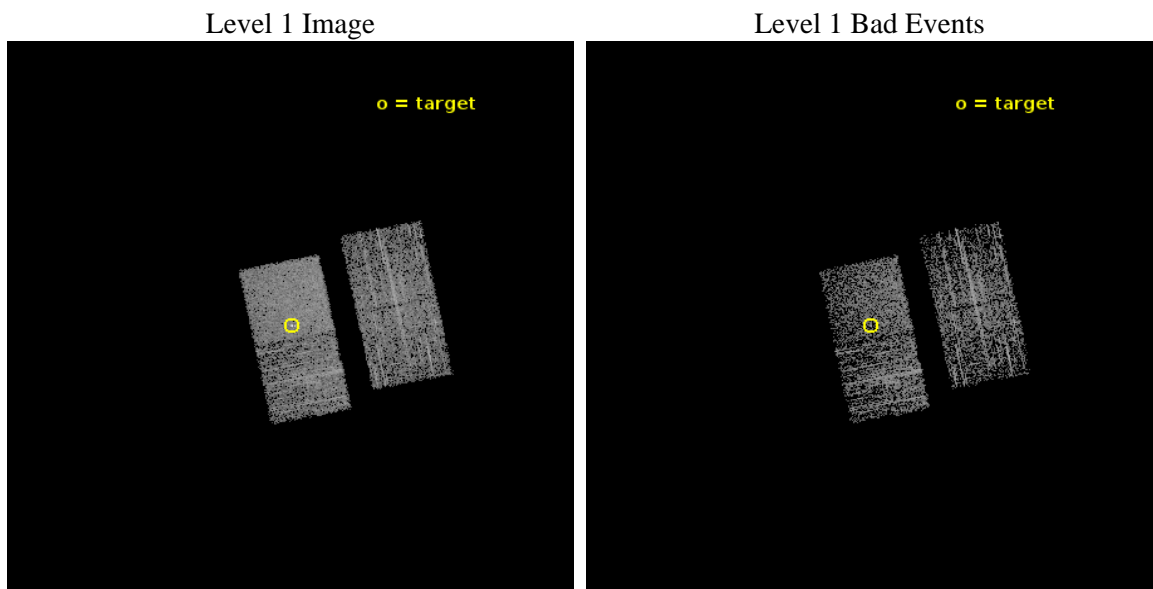
seq_num	200955	Sequence number
obs_id	16329	Observation id
title	X-rays and Disks around Upper Sco Stars	Proposal title
observer	Professor Gordon Garmire	Principal investigator
object	US 16124051-1859282	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	243.16875	Observer's specified target RA [deg]
dec_targ	-18.991167	Observer's specified target Dec [deg]
ra_nom	243.17118117478	Nominal RA [deg]
dec_nom	-18.993215986819	Nominal Dec [deg]
roll_nom	258.49948442139	Nominal Roll [deg]
revision	1	Processing version of data
ontime	3077.2131156325	Sum of GTIs [s]
livetime	3037.0070608655	Livetime [s]
ontime2	3077.0899956226	Sum of GTIs [s]
ontime3	3077.1310356259	Sum of GTIs [s]
ontime6	3077.1720756292	Sum of GTIs [s]
ontime7	3077.2131156325	Sum of GTIs [s]
l2events	14199	Number of level 2 events



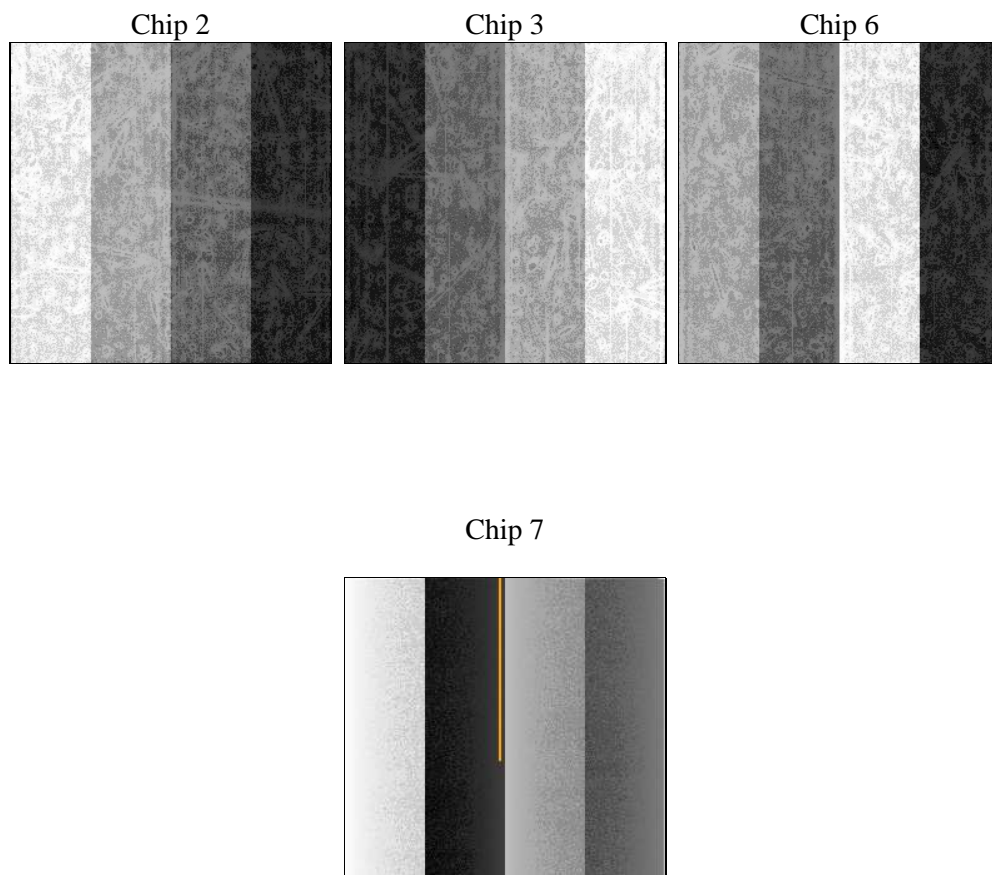
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3000.000000	[s] Scheduled observation exposure time
ascdsver	10.2.4	Processing system revision	ontime	3077.2131156325	Sum of GTIs [s]
caldsver	4.6.2	&#160	ontime2	3077.0899956226	Sum of GTIs [s]
date	2014-07-25T23:52:37	Date and time of file creation	ontime3	3077.1310356259	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	3077.1720756292	Sum of GTIs [s]
			ontime7	3077.2131156325	Sum of GTIs [s]
			l1events	63738	Number of level 1 events

### 2.1.4 Events

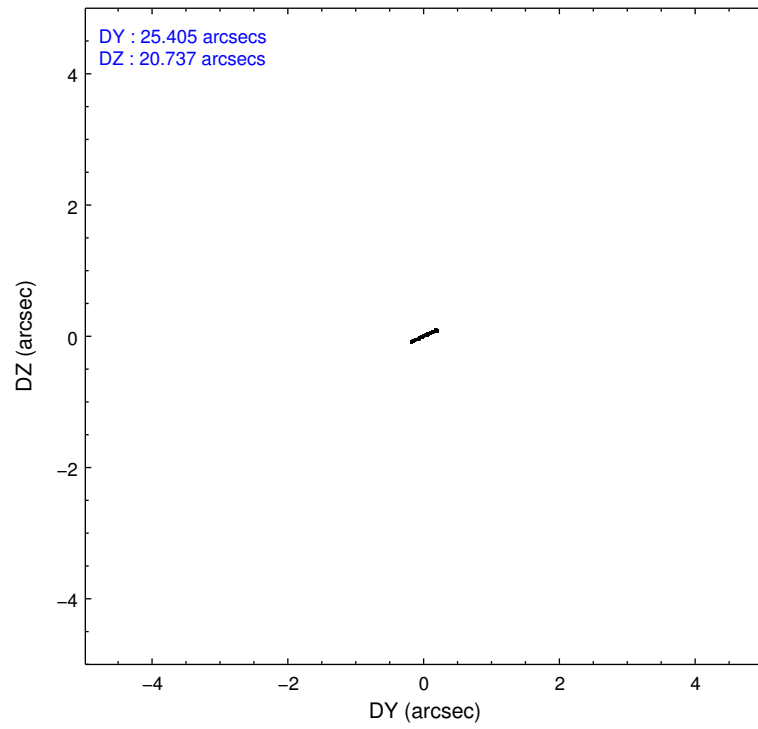
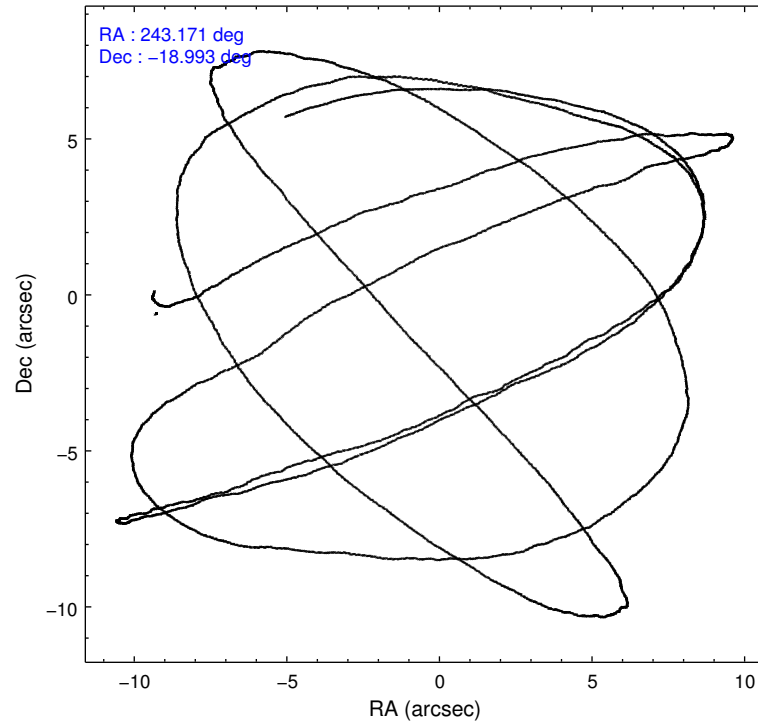
	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	13783	13667	14772	21516
rejected events	12078	11961	12885	11736
rejected %	87%	87%	87%	54%

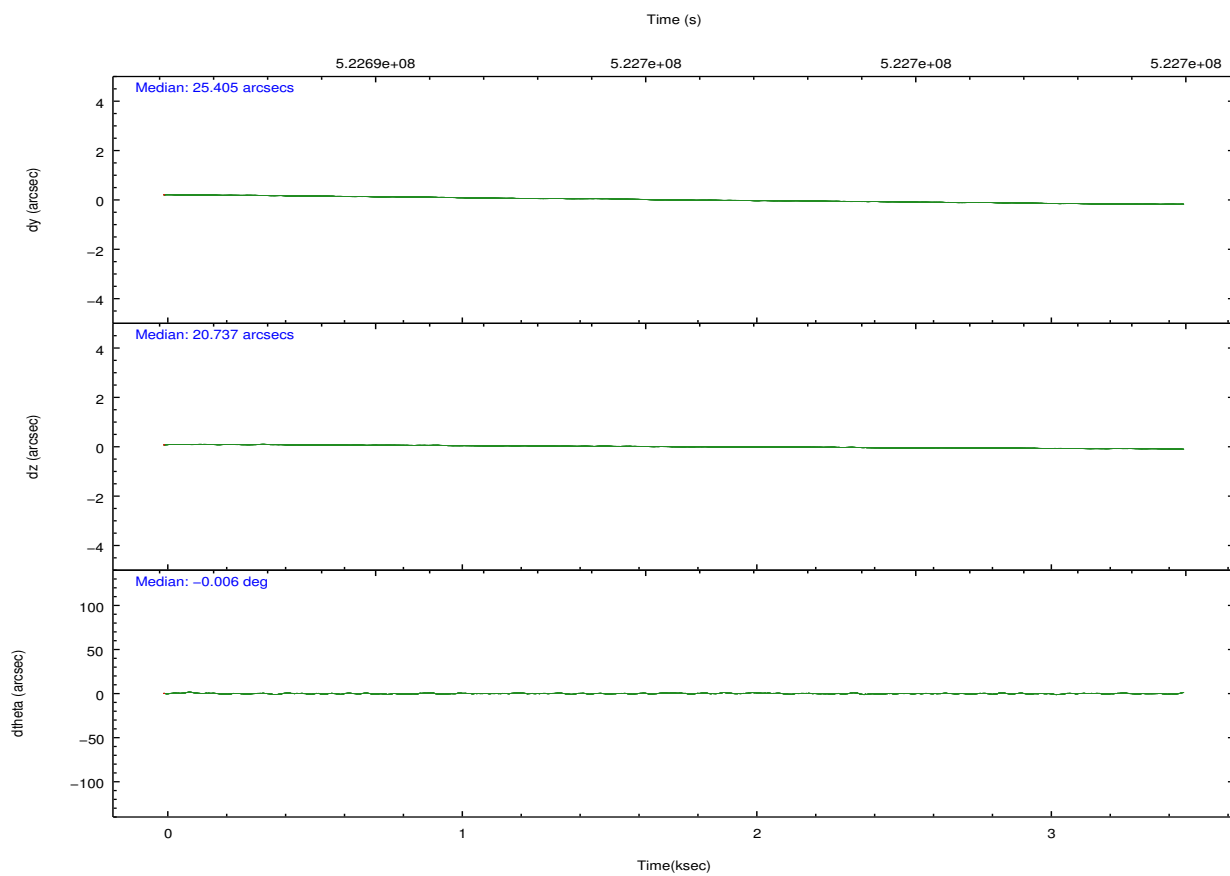
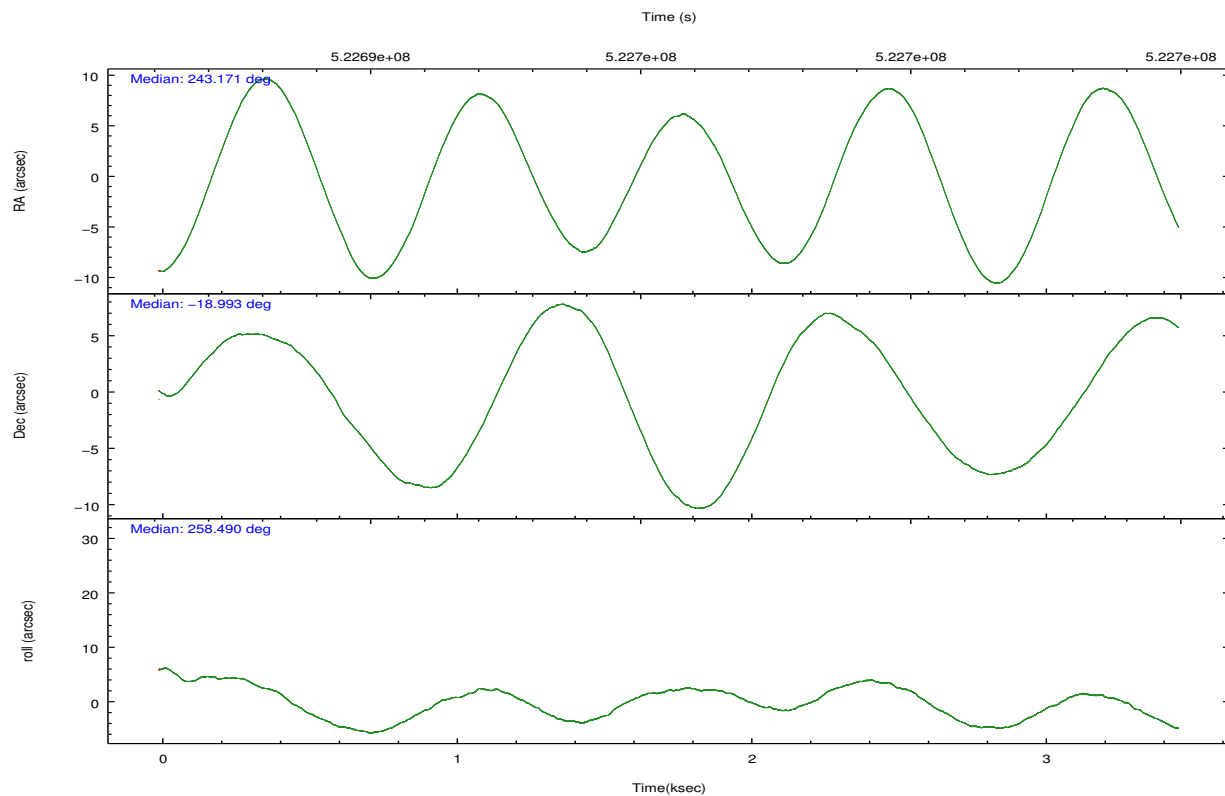
	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	613	624	674	963
	4%	4%	4%	4%
grade 1 events	8	18	6	33
	0%	0%	0%	0%
grade 2 events	398	371	404	2120
	2%	2%	2%	9%
grade 3 events	183	187	184	804
	1%	1%	1%	3%
grade 4 events	173	185	191	857
	1%	1%	1%	3%
grade 5 events	669	802	867	2078
	4%	5%	5%	9%
grade 6 events	339	340	435	5047
	2%	2%	2%	23%
grade 7 events	11400	11140	12011	9614
	82%	81%	81%	44%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-2367	ACIS-2367	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	243.161512	243.1711811747833	Subarray requested	NONE	NONE
[deg] Pointing Dec	-18.967456	-18.99321598681865	Alternating exposures requested	N	N
[deg] Pointing Roll	258.339696	258.4994844213923	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	522693826.184000	522692809.9868			
Observation start date	2014-07-25T16:42:39	2014-07-25T16:26:49			
[s] Observation end time (MET)	522696826.184000	522697957.02459			
Observation end date	2014-07-25T17:32:39	2014-07-25T17:52:37			
Read mode	TIMED	TIMED			

## 2.3 Aspect



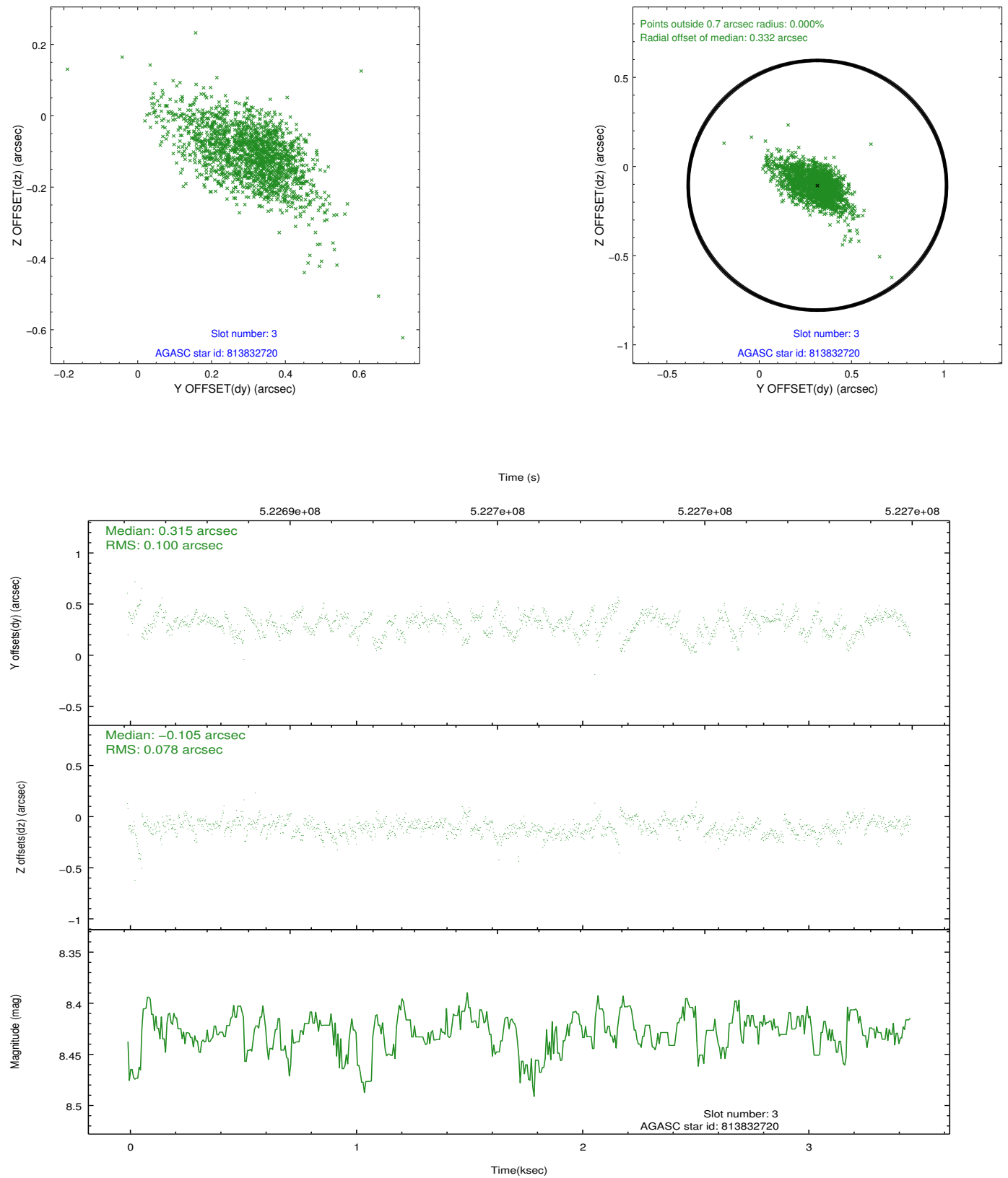


### Slot Statistics

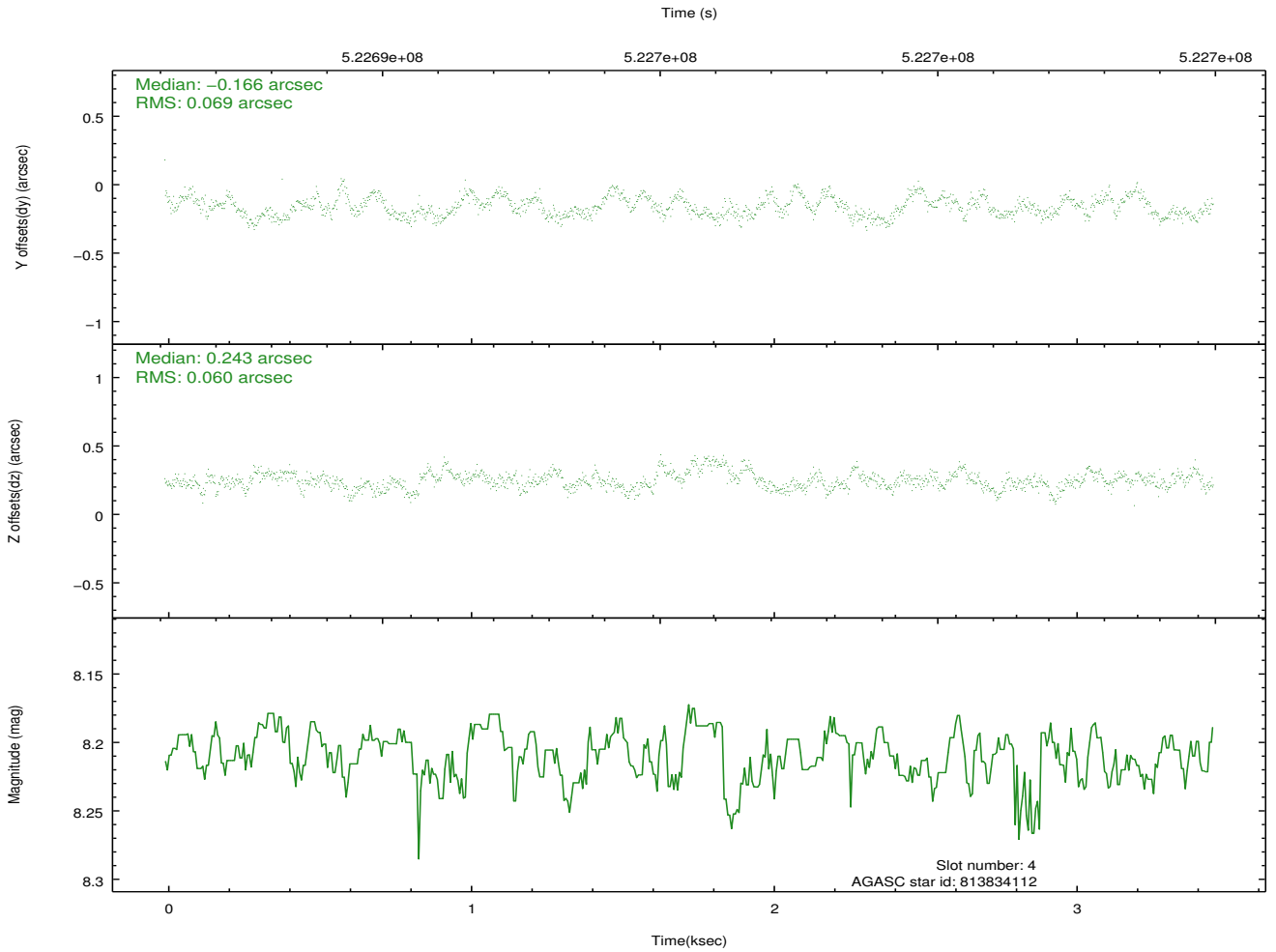
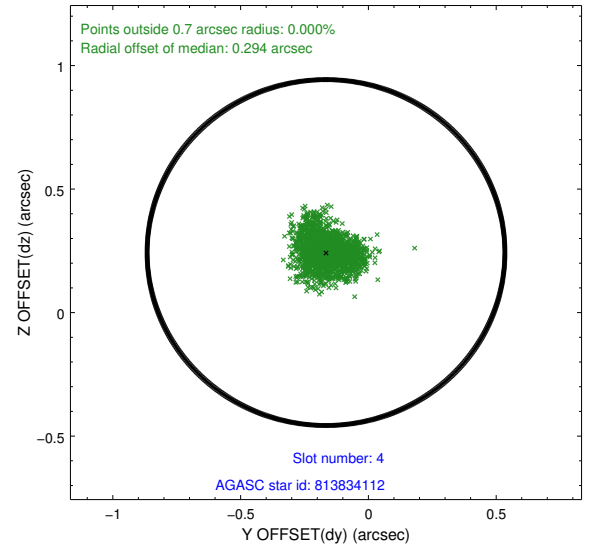
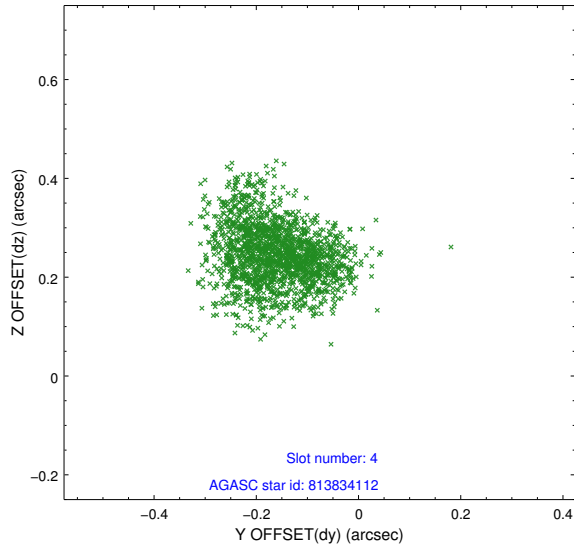
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.11	845	0.070	-0.077	0.008	0.013	0.000000	0.000000	917.46	-1737.92
1	FID	ACIS-S-5	7.16	845	-0.218	0.011	0.007	0.011	0.000000	0.000000	-1830.84	157.79
2	FID	ACIS-S-6	7.26	845	0.128	0.078	0.008	0.013	0.000000	0.000000	381.04	803.92
3	GUIDE	813832720	8.43	1689	0.315	-0.105	0.124	0.237	242.337034	-19.457210	2301.14	-2383.25
4	GUIDE	813834112	8.21	1688	-0.166	0.243	0.099	0.155	243.024975	-19.062329	431.39	-387.22
5	GUIDE	813835928	9.04	1688	0.038	-0.086	0.117	0.189	242.571690	-19.513919	2336.25	-1561.97
6	GUIDE	813836688	8.70	1690	-0.142	0.176	0.087	0.139	243.555491	-18.836806	-726.74	1220.31
7	GUIDE	813838352	7.93	1689	-0.035	-0.237	0.079	0.122	243.183752	-19.502876	1873.48	464.12

## 2.4 Star Slots

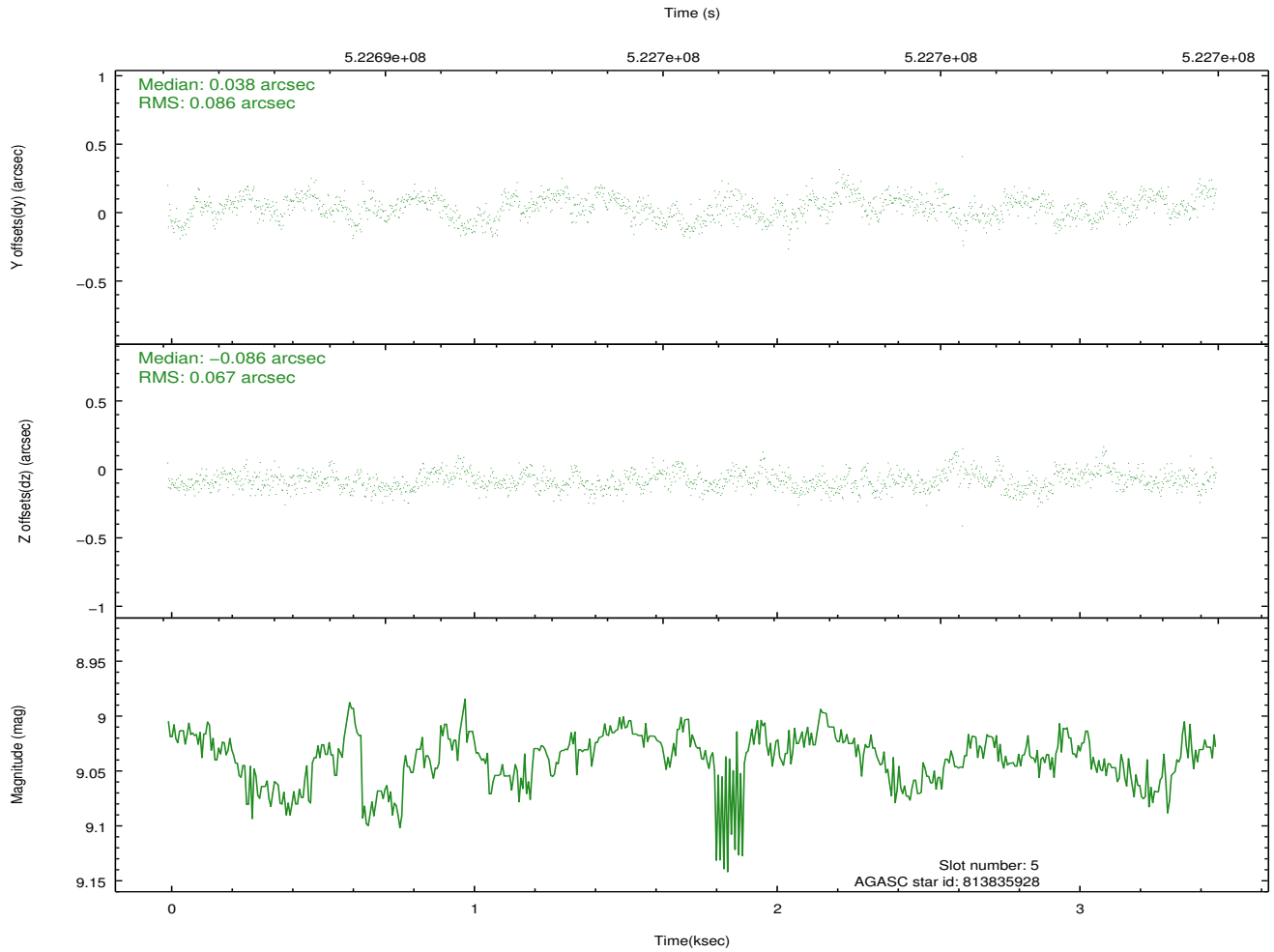
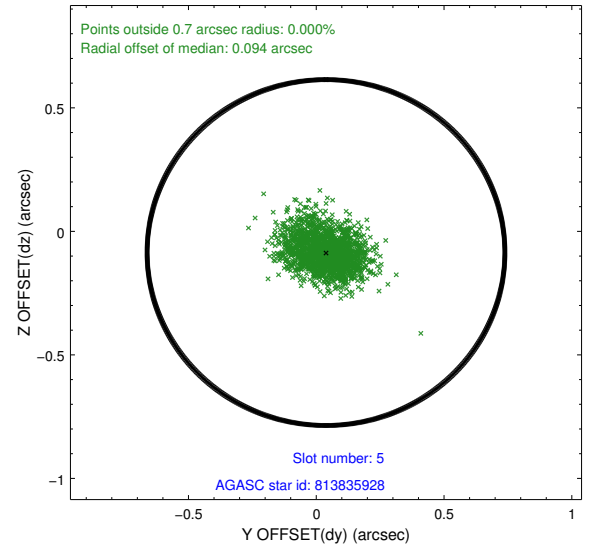
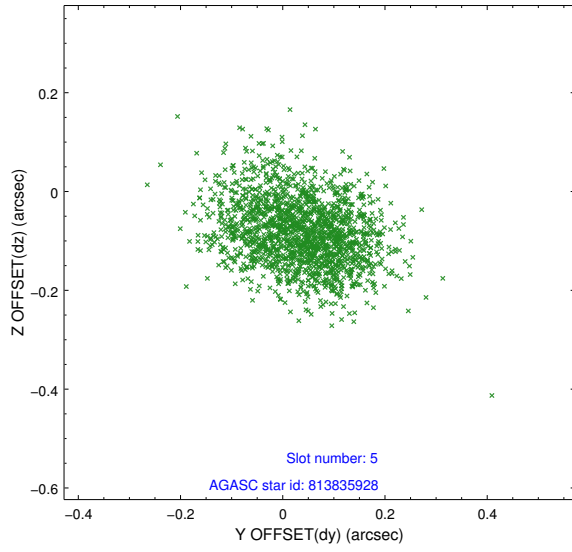
### 2.4.1 Slot 3



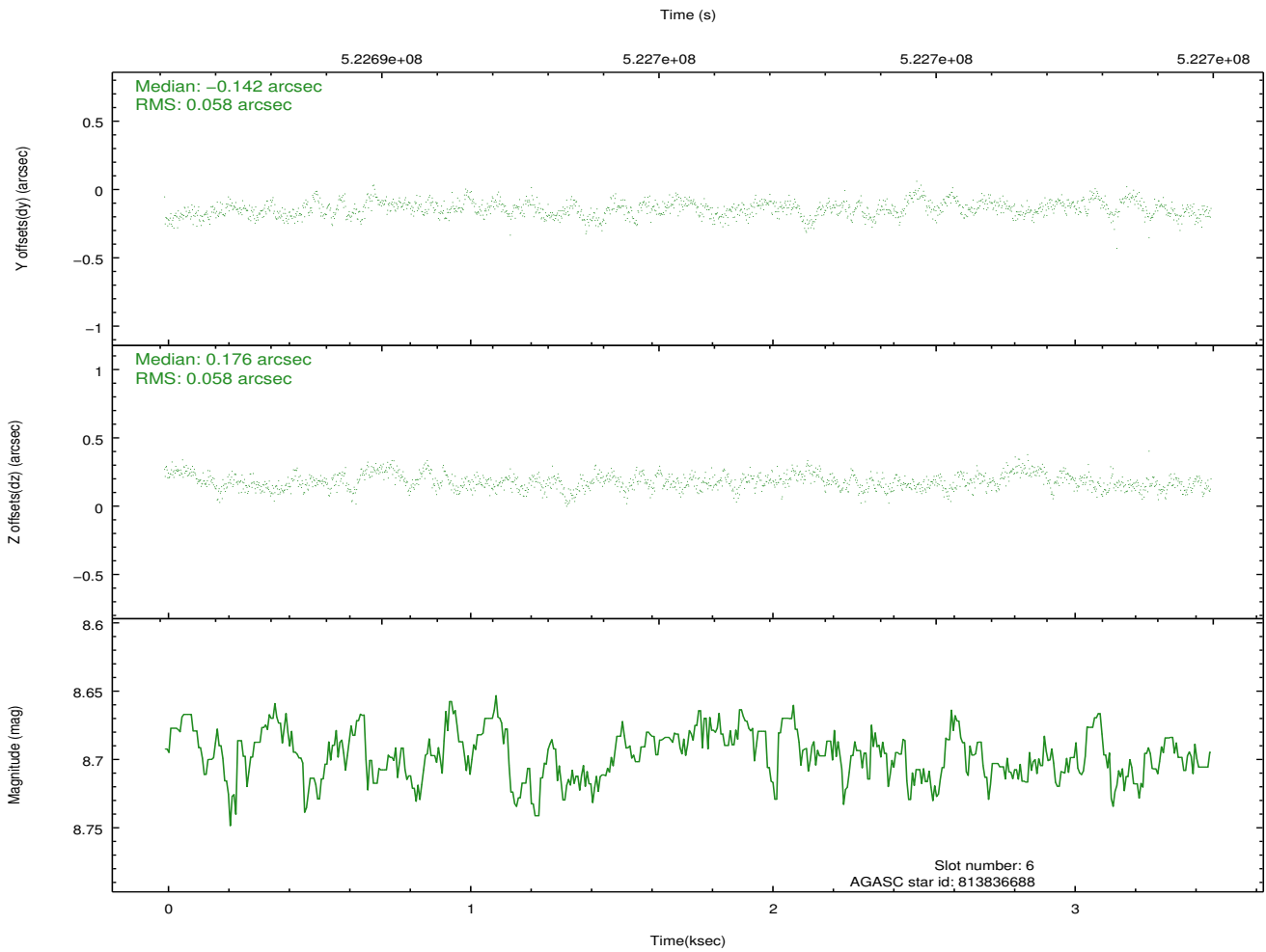
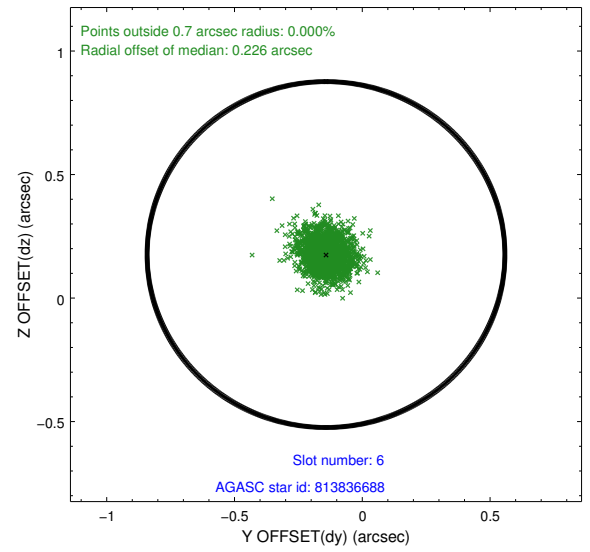
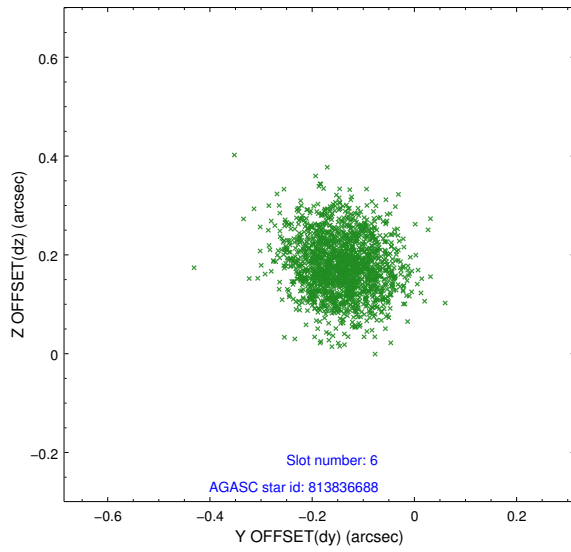
## 2.4.2 Slot 4



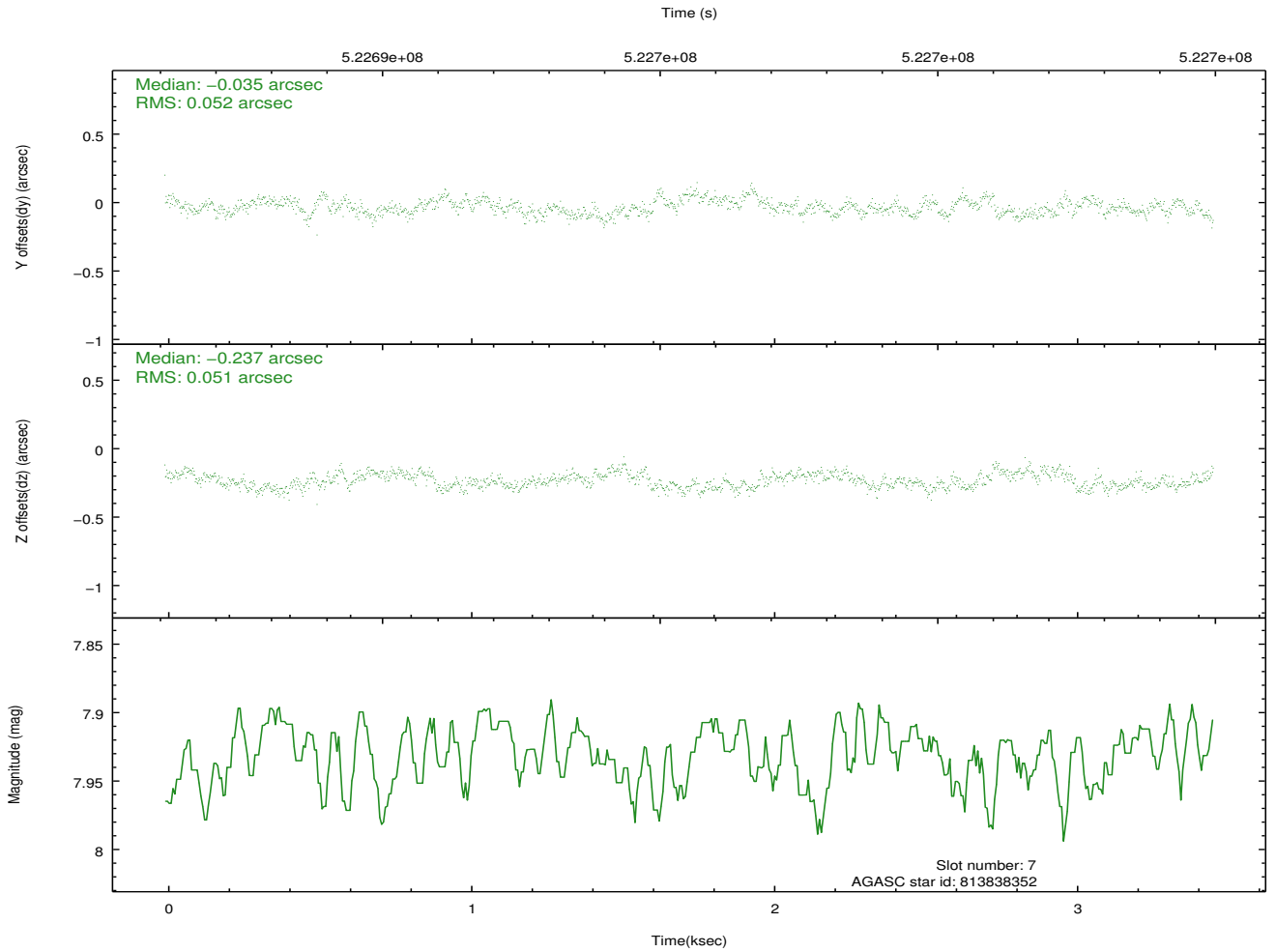
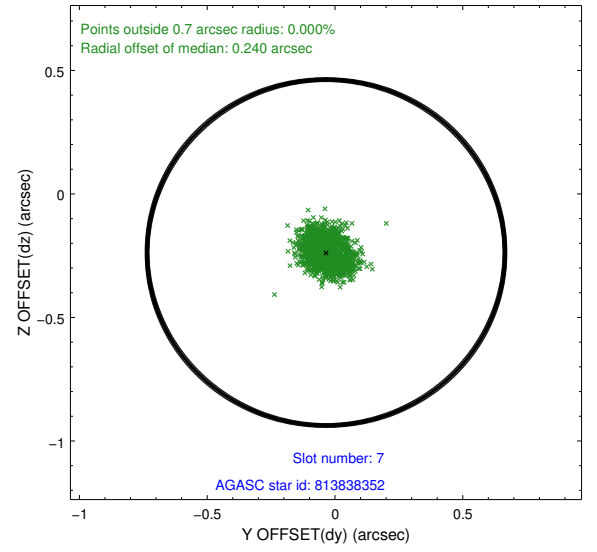
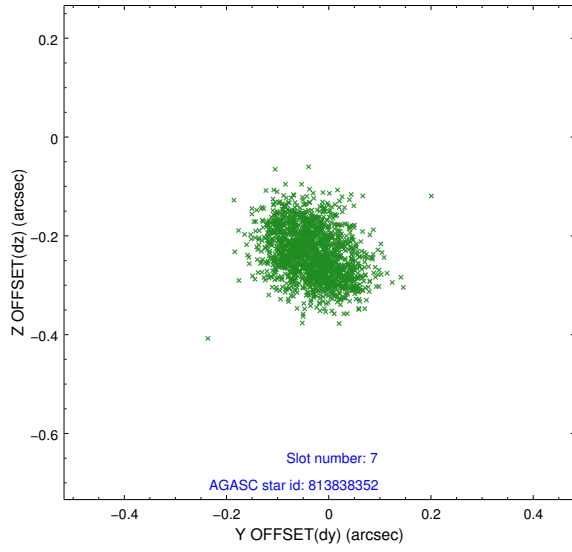
### 2.4.3 Slot 5



## 2.4.4 Slot 6

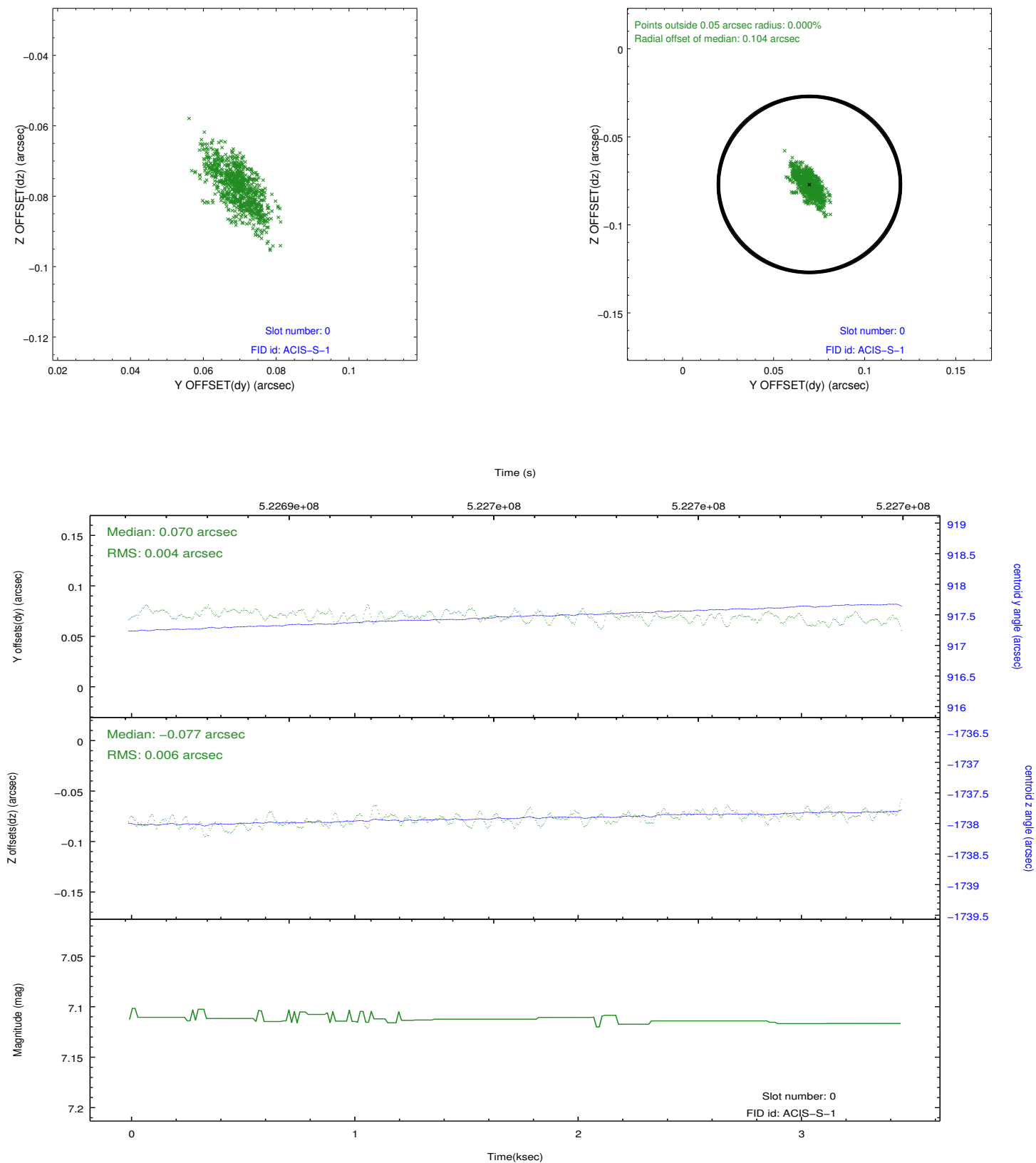


## 2.4.5 Slot 7

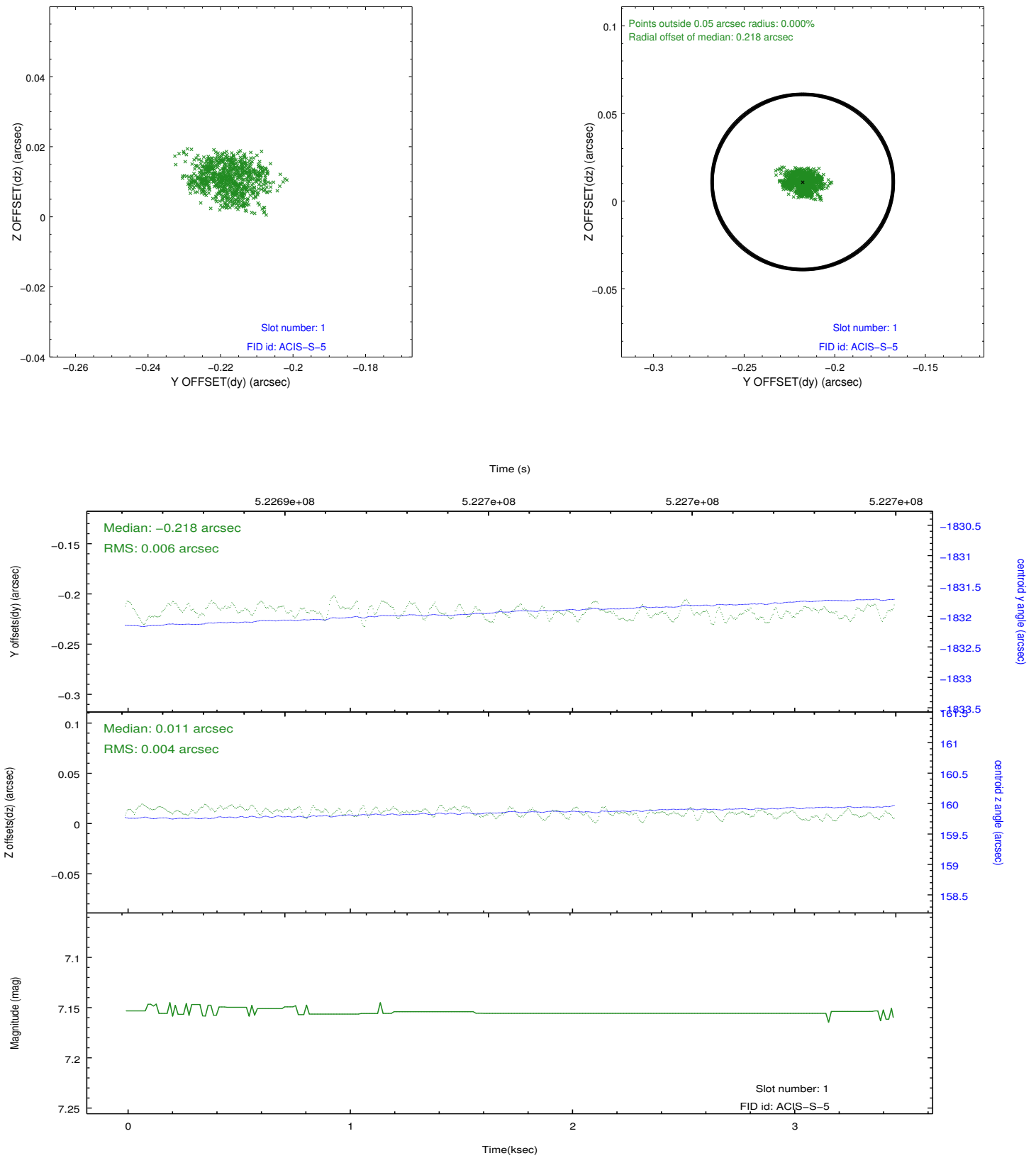


# 2.5 FID Slots

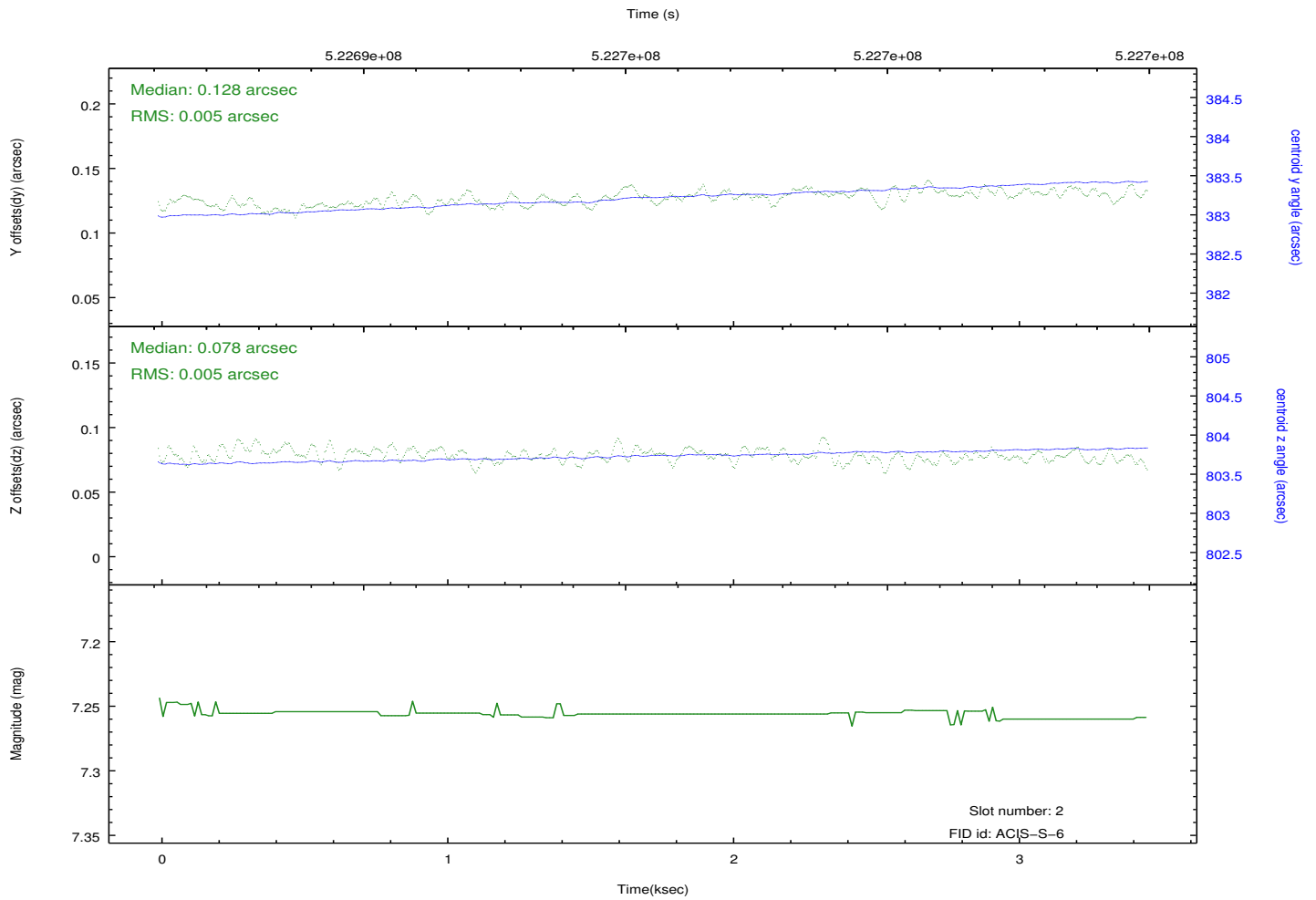
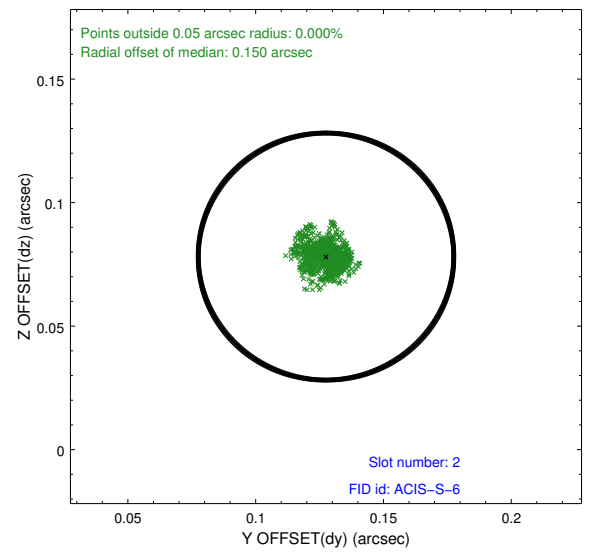
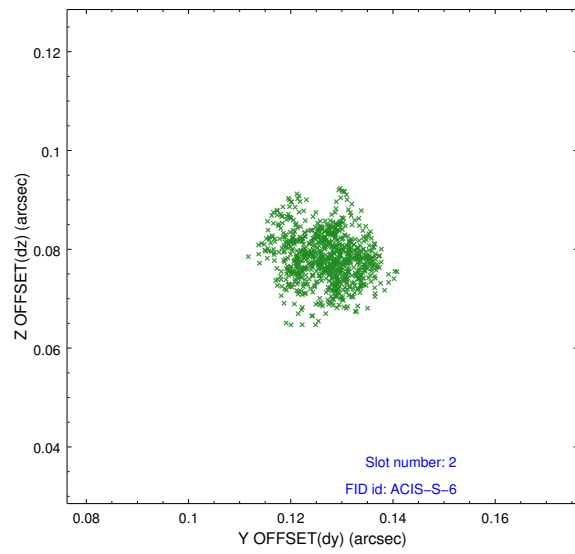
## 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



## A Summary

### A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2014.07.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.0772131156325

### A.2 Comments