

# V&V Reference Report

## L2 ASCDS Version : 8.4.3

Observation 7205 - L2 Version 3  
Chandra X-Ray Center

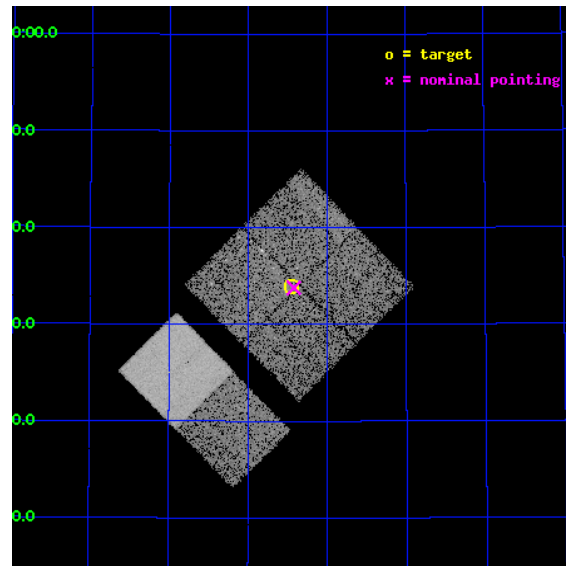
L2 Processing Date : Mar 22 2012

## Contents

<b>1</b>	<b>Front</b>	<b>2</b>
<b>2</b>	<b>OBI</b>	<b>3</b>
2.1	OBI . . . . .	3
2.1.1	Images . . . . .	3
2.1.2	Bias . . . . .	3
2.1.3	Parameters . . . . .	4
2.1.4	Events . . . . .	4
2.2	Compared Parameters . . . . .	5
2.3	Aspect . . . . .	6
2.4	Star Slots . . . . .	9
2.4.1	Slot 3 . . . . .	9
2.4.2	Slot 4 . . . . .	10
2.4.3	Slot 5 . . . . .	11
2.4.4	Slot 6 . . . . .	12
2.4.5	Slot 7 . . . . .	13
2.5	FID Slots . . . . .	14
2.5.1	Slot 0 . . . . .	14
2.5.2	Slot 1 . . . . .	15
2.5.3	Slot 2 . . . . .	16
<b>A</b>	<b>Summary</b>	<b>17</b>
A.1	Status . . . . .	17
A.2	Comments . . . . .	17

# 1 Front

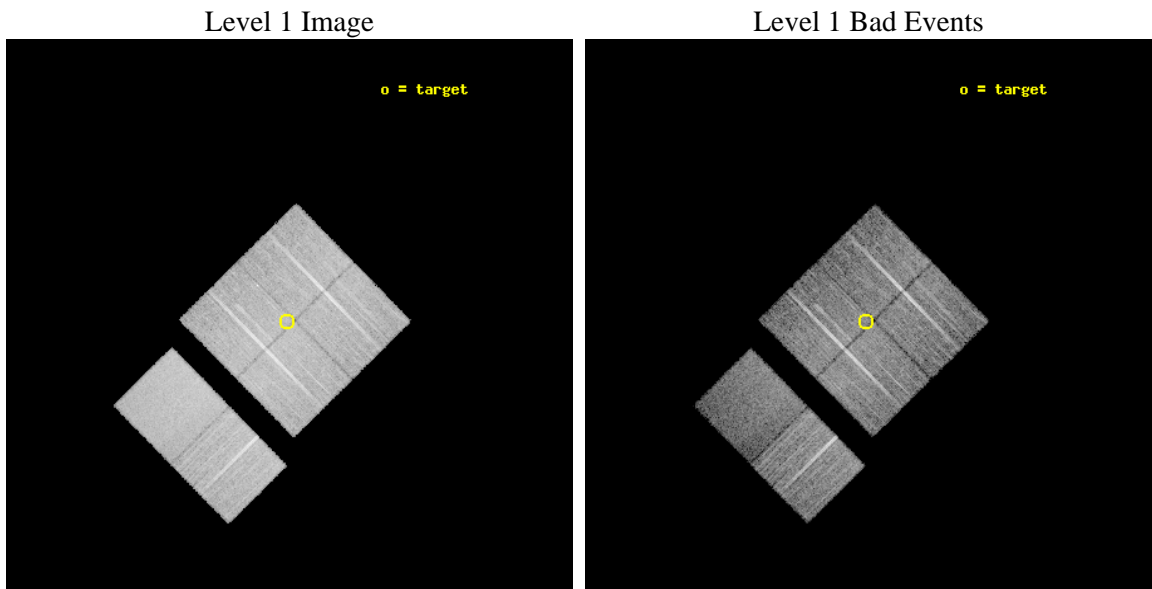
seq_num	200357	Sequence number
obs_id	7205	Observation id
title	The power within the PacMan Nebula: Triggered Star Formation in NGC 281	Proposal title
observer	Dr. Scott Wolk	Principal investigator
object	NGC 281	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	13.112917	Observer's specified target RA [deg]
dec_targ	56.565	Observer's specified target Dec [deg]
ra_nom	13.105192495047	Nominal RA [deg]
dec_nom	56.563187520487	Nominal Dec [deg]
roll_nom	225.51514993588	Nominal Roll [deg]
revision	3	Processing version of data
ontime	13161.599950969	Sum of GTIs [s]
livetime	12994.939847426	Livetime [s]
ontime0	13161.599950969	Sum of GTIs [s]
ontime1	13161.599950969	Sum of GTIs [s]
ontime2	13158.35894078	Sum of GTIs [s]
ontime3	13161.599950969	Sum of GTIs [s]
ontime6	13158.35894078	Sum of GTIs [s]
ontime7	13161.599950969	Sum of GTIs [s]
l2events	80155	Number of level 2 events



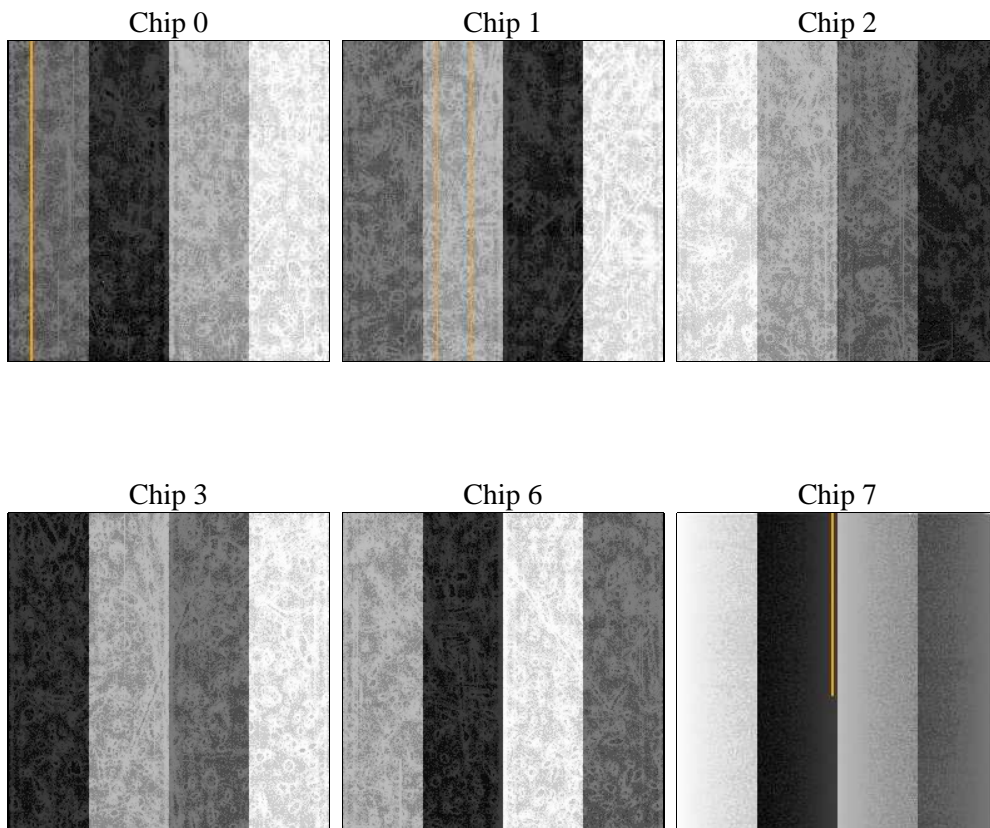
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	13000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	13161.599950969	Sum of GTIs [s]
caldsver	4.4.8	&#160	ontime0	13161.599950969	Sum of GTIs [s]
date	2012-03-22T22:37:05	Date and time of file creation	ontime1	13161.599950969	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	13158.35894078	Sum of GTIs [s]
			ontime3	13161.599950969	Sum of GTIs [s]
			ontime6	13158.35894078	Sum of GTIs [s]
			ontime7	13161.599950969	Sum of GTIs [s]
			l1events	532219	Number of level 1 events

### 2.1.4 Events

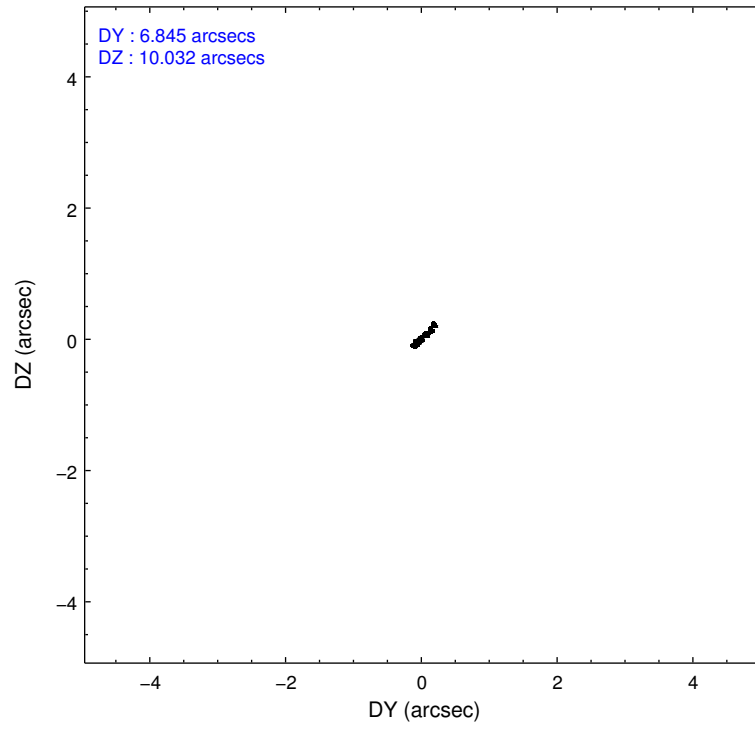
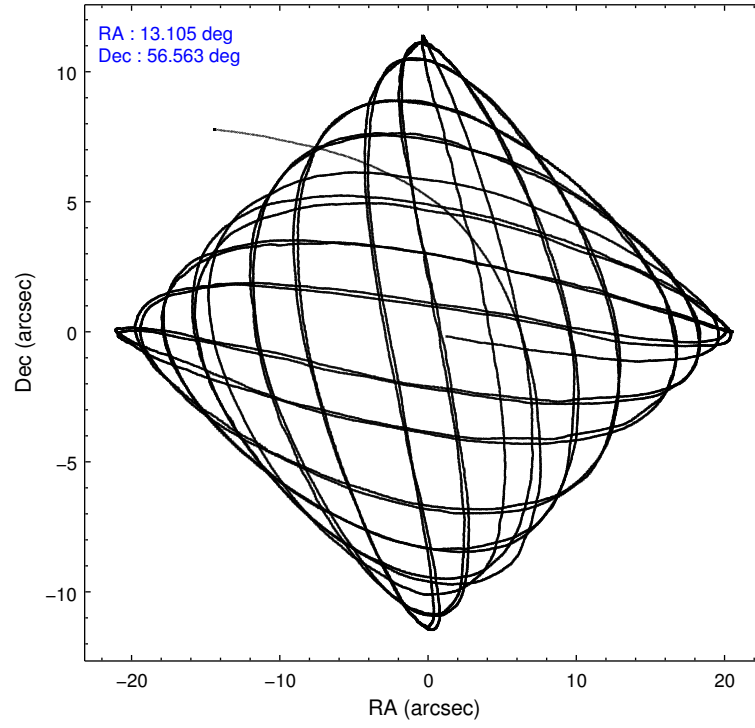
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	82644	80174	93882	86721	91575	97223	grade 0 events	2802	3615	3117	3826	3084	3571
rejected events	74261	70312	85365	77380	82524	53591		3%	4%	3%	4%	3%	3%
rejected %	89%	87%	90%	89%	90%	55%	grade 1 events	47	47	63	61	37	104
								0%	0%	0%	0%	0%	0%
							grade 2 events	2003	2130	1968	1912	1988	8797
								2%	2%	2%	2%	2%	9%
							grade 3 events	1009	1124	908	979	993	4093
								1%	1%	0%	1%	1%	4%
							grade 4 events	916	1047	990	969	1027	3930
								1%	1%	1%	1%	1%	4%
							grade 5 events	2978	3227	2839	3444	3655	10556
								3%	4%	3%	3%	3%	10%
							grade 6 events	1655	1947	1536	1658	1963	23260
								2%	2%	1%	1%	2%	23%
							grade 7 events	71234	67037	82461	73872	78828	42912
								86%	83%	87%	85%	86%	44%

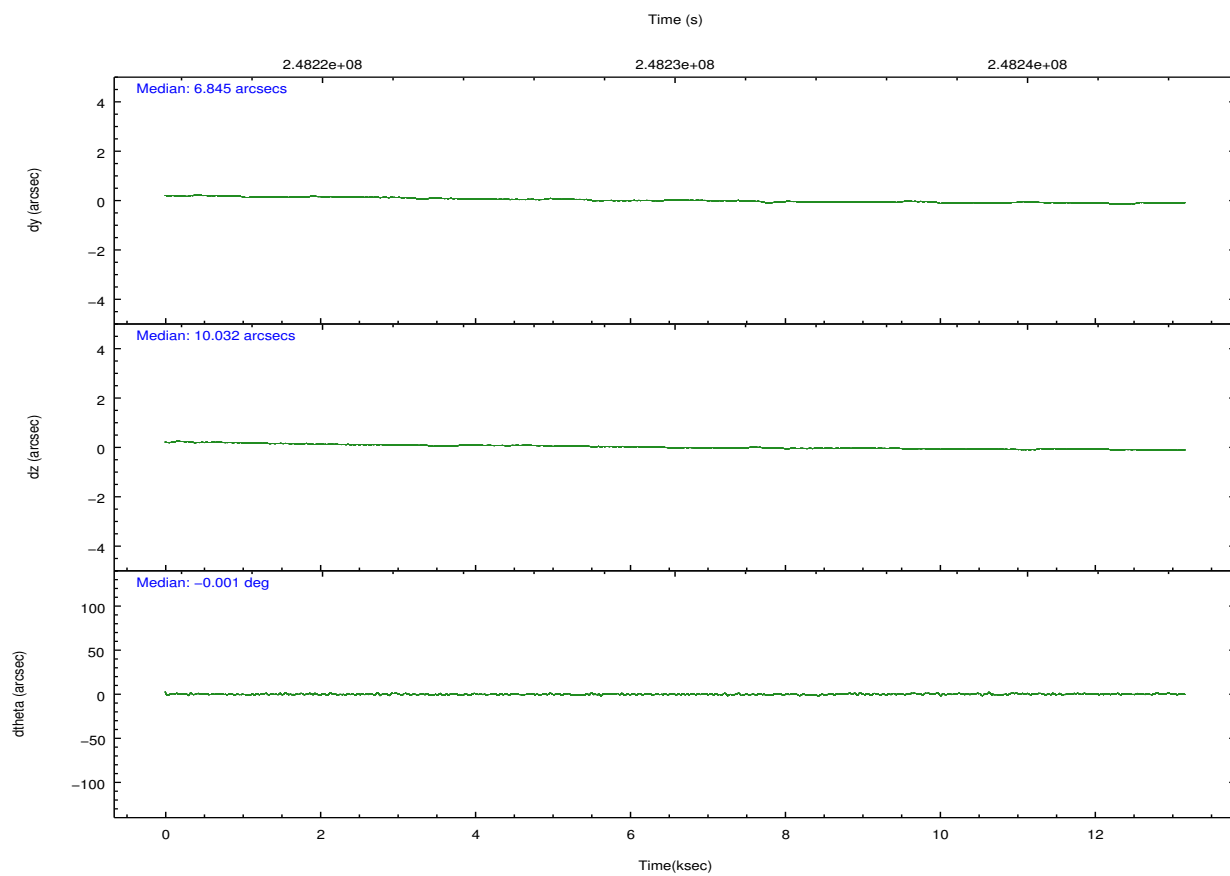
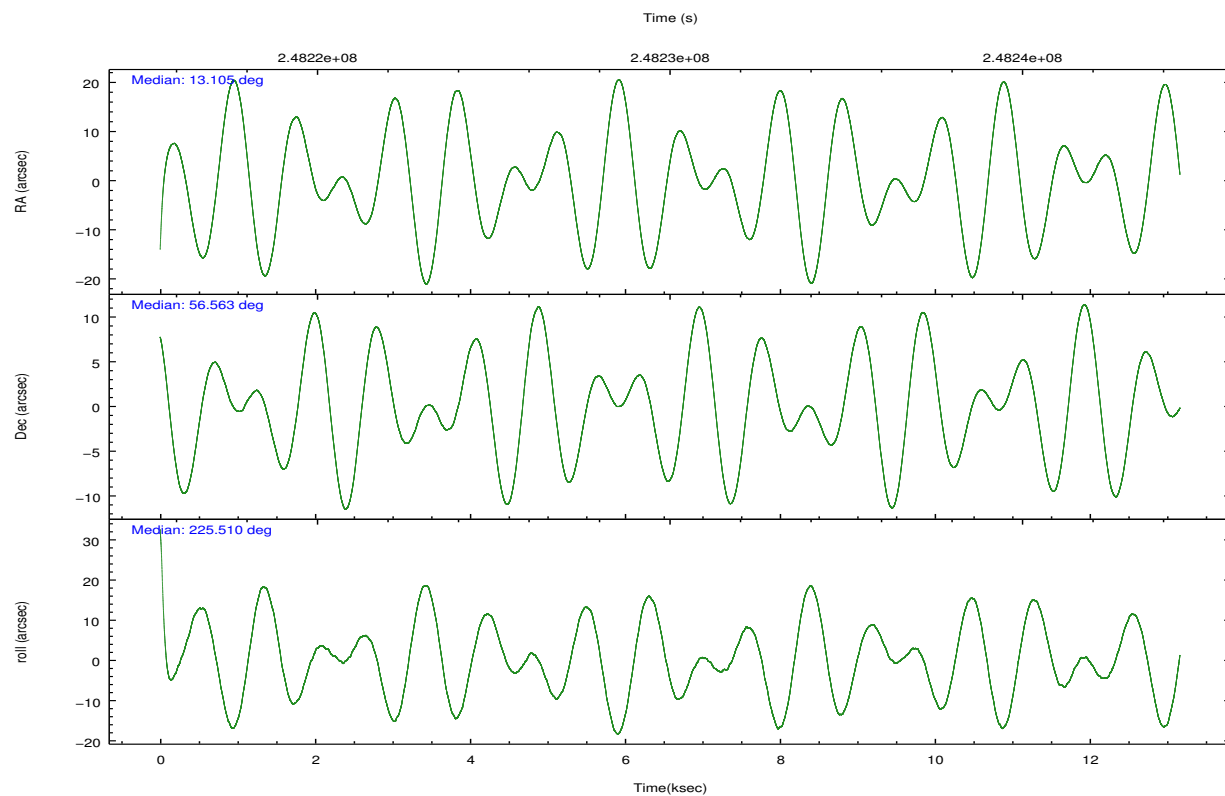


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012367	ACIS-012367	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	13.117383	13.10519249504725	Subarray requested	NONE	NONE
[deg] Pointing Dec	56.589758	56.56318752048664	Alternating exposures requested	N	N
[deg] Pointing Roll	225.296276	225.5151499358799	[s] Primary exposure time	0.000000	3.2
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	248223582.184000	248222518.31997			
Observation start date	2005-11-12T22:58:38	2005-11-12T22:41:58			
[s] Observation end time (MET)	248236582.184000	248237541.74567			
Observation end date	2005-11-13T02:35:18	2005-11-13T02:52:21			
Read mode	TIMED	TIMED			

## 2.3 Aspect



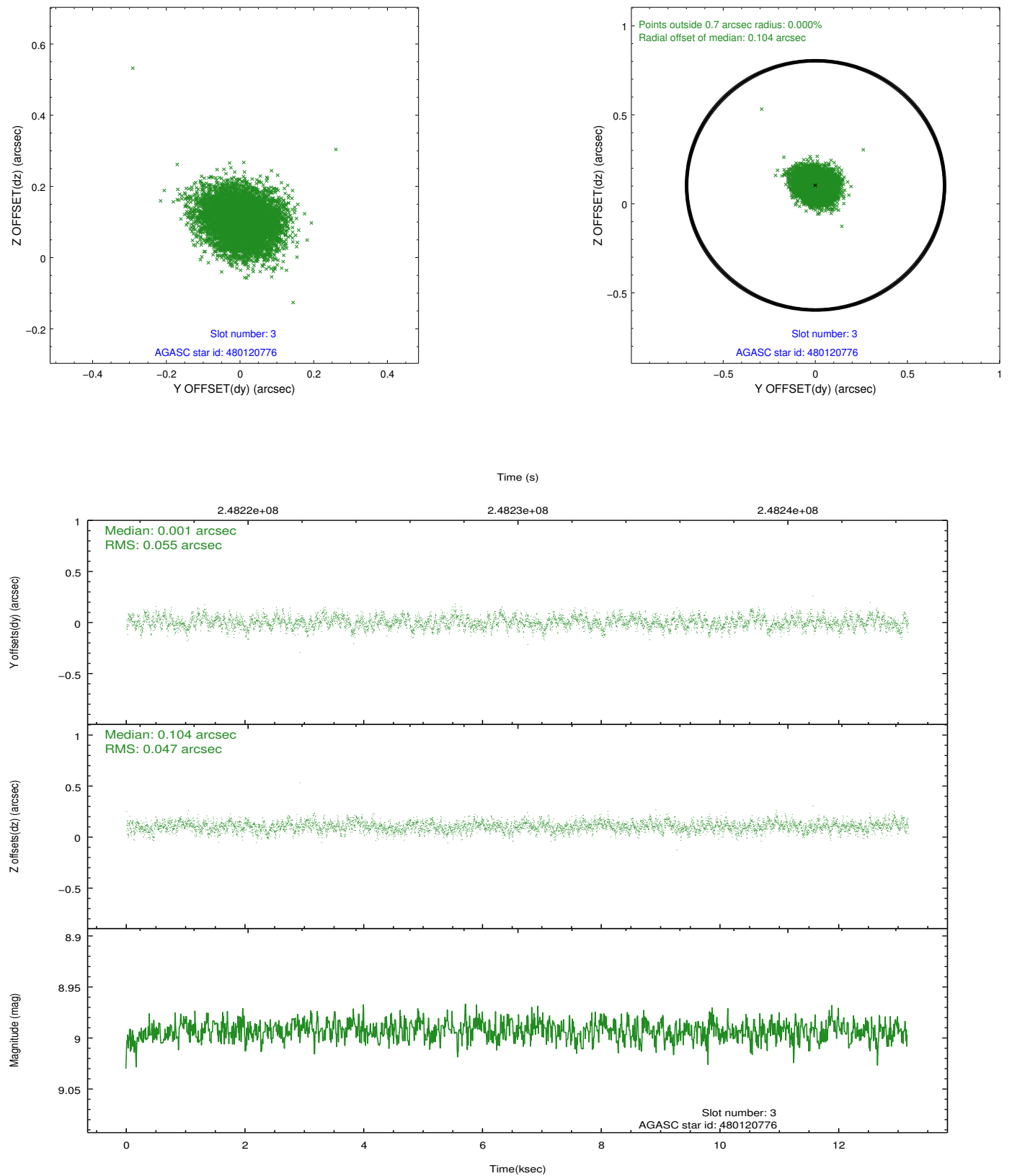


### Slot Statistics

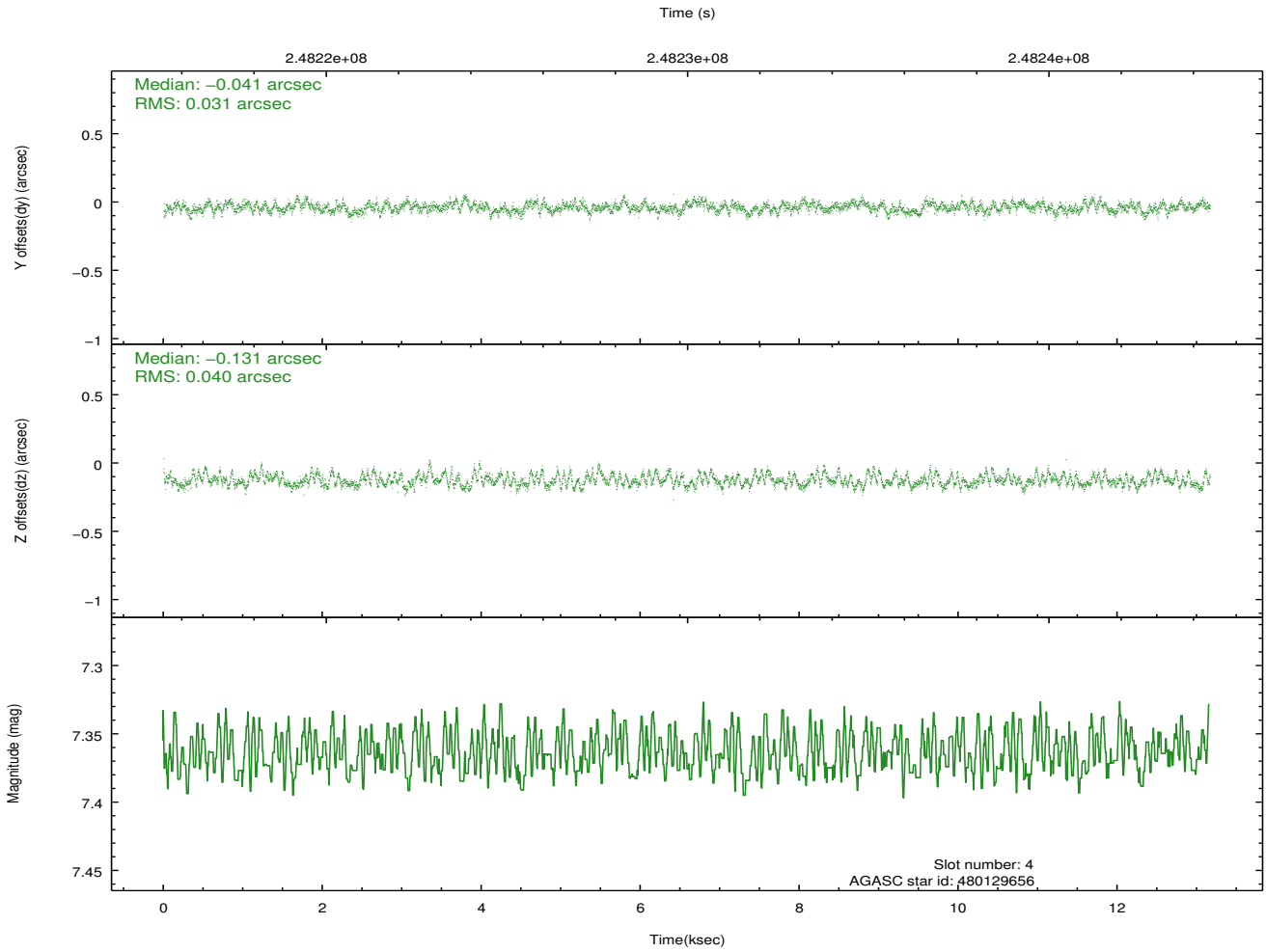
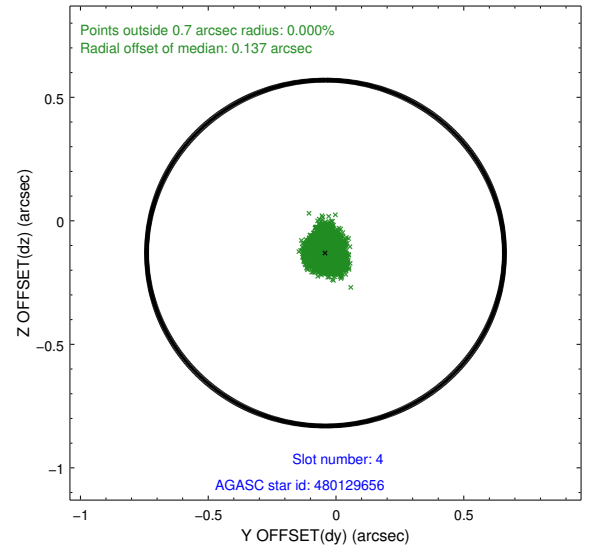
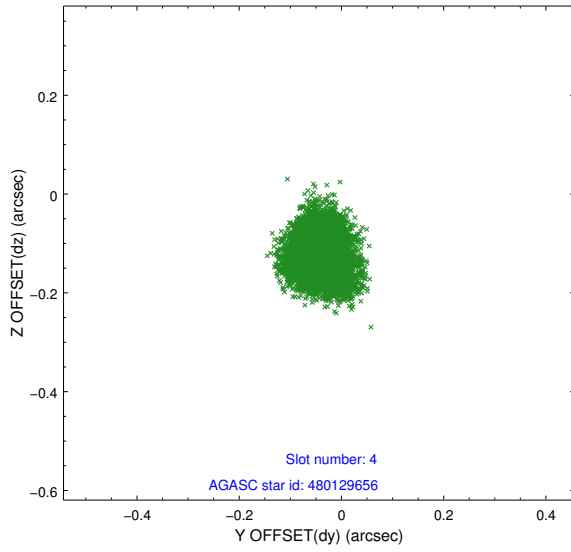
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-4	7.18	3210	0.099	0.019	0.008	0.014	0.000000	0.000000	2152.89	1066.35
1	FID	ACIS-I-5	7.23	3212	-0.199	0.015	0.006	0.011	0.000000	0.000000	-1814.89	1064.40
2	FID	ACIS-I-6	7.26	3211	0.001	0.034	0.008	0.013	0.000000	0.000000	397.99	1708.73
3	GUIDE	480120776	8.99	6422	0.001	0.104	0.077	0.123	11.785837	56.559271	1918.45	-1818.06
4	GUIDE	480129656	7.36	6421	-0.041	-0.131	0.055	0.086	13.070380	56.264365	899.11	756.98
5	GUIDE	480136328	7.71	6423	0.018	0.023	0.061	0.097	13.273425	57.219156	-1824.07	-1377.97
6	GUIDE	481821576	7.92	6421	-0.000	0.024	0.057	0.090	13.802183	56.483052	-689.53	1232.67
7	GUIDE	479609704	8.42	6421	0.022	-0.023	0.076	0.117	13.331651	55.769395	1793.46	2385.76

## 2.4 Star Slots

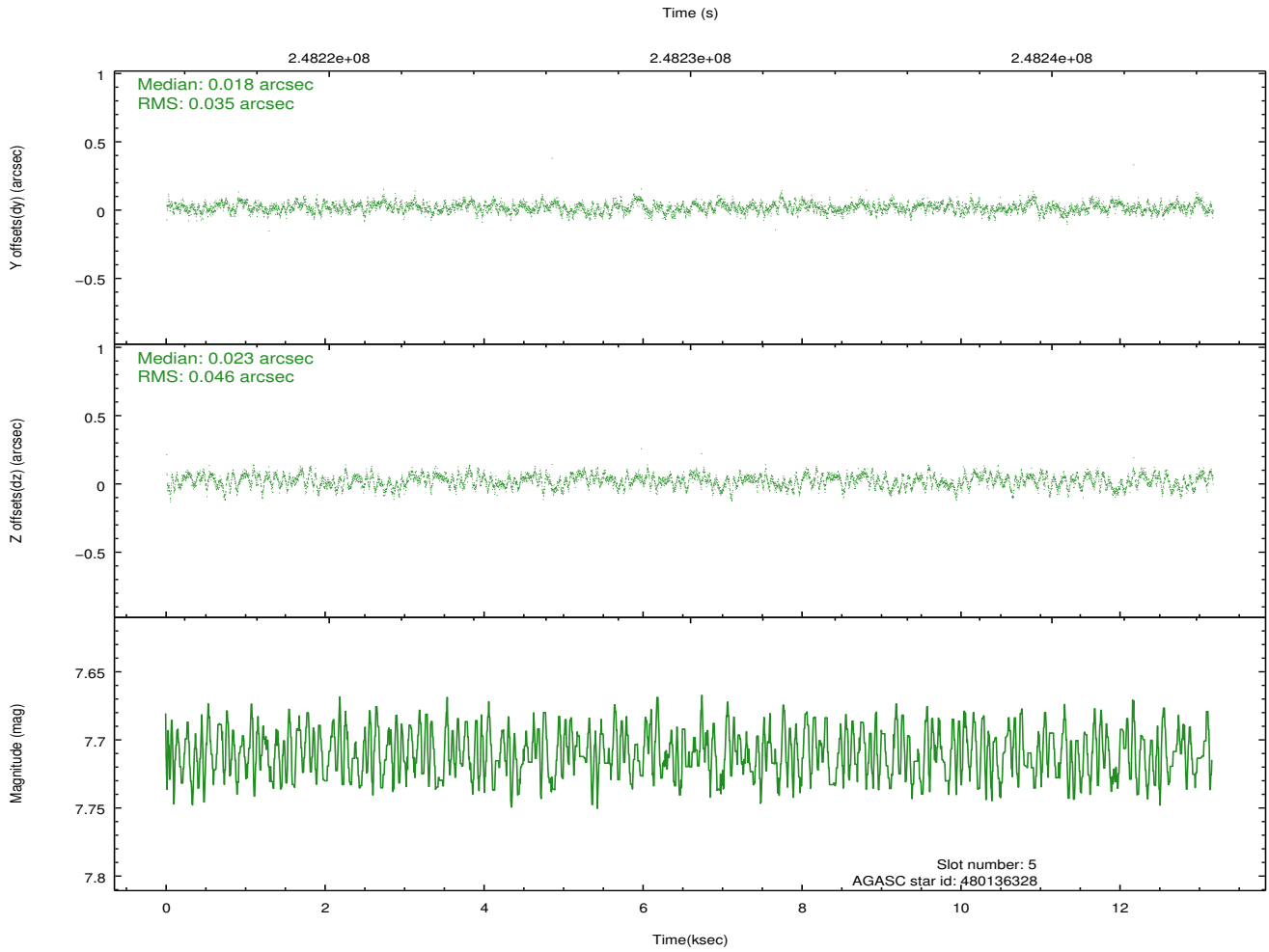
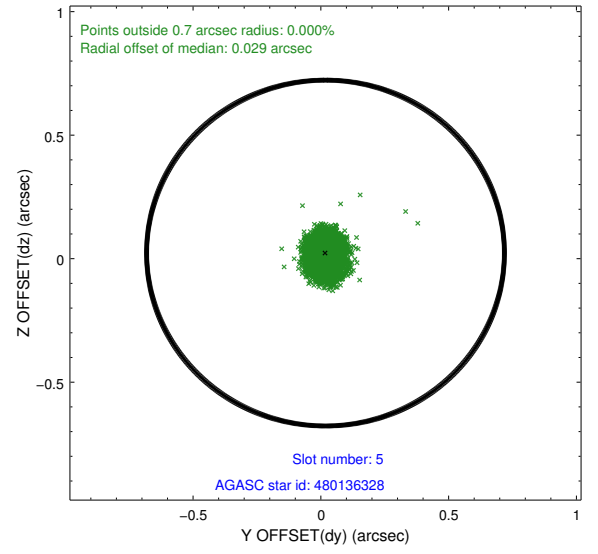
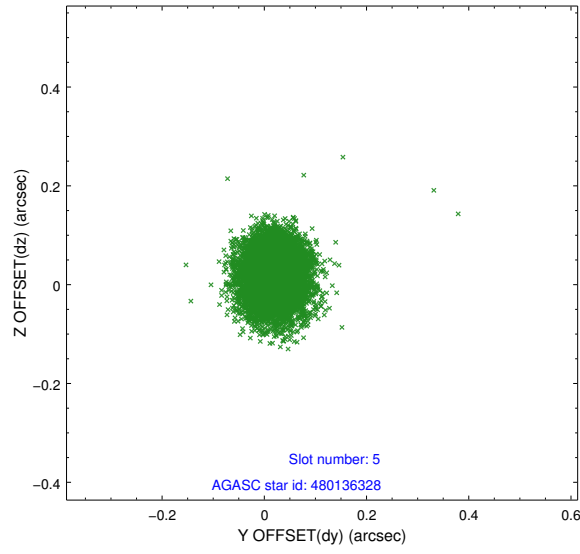
### 2.4.1 Slot 3



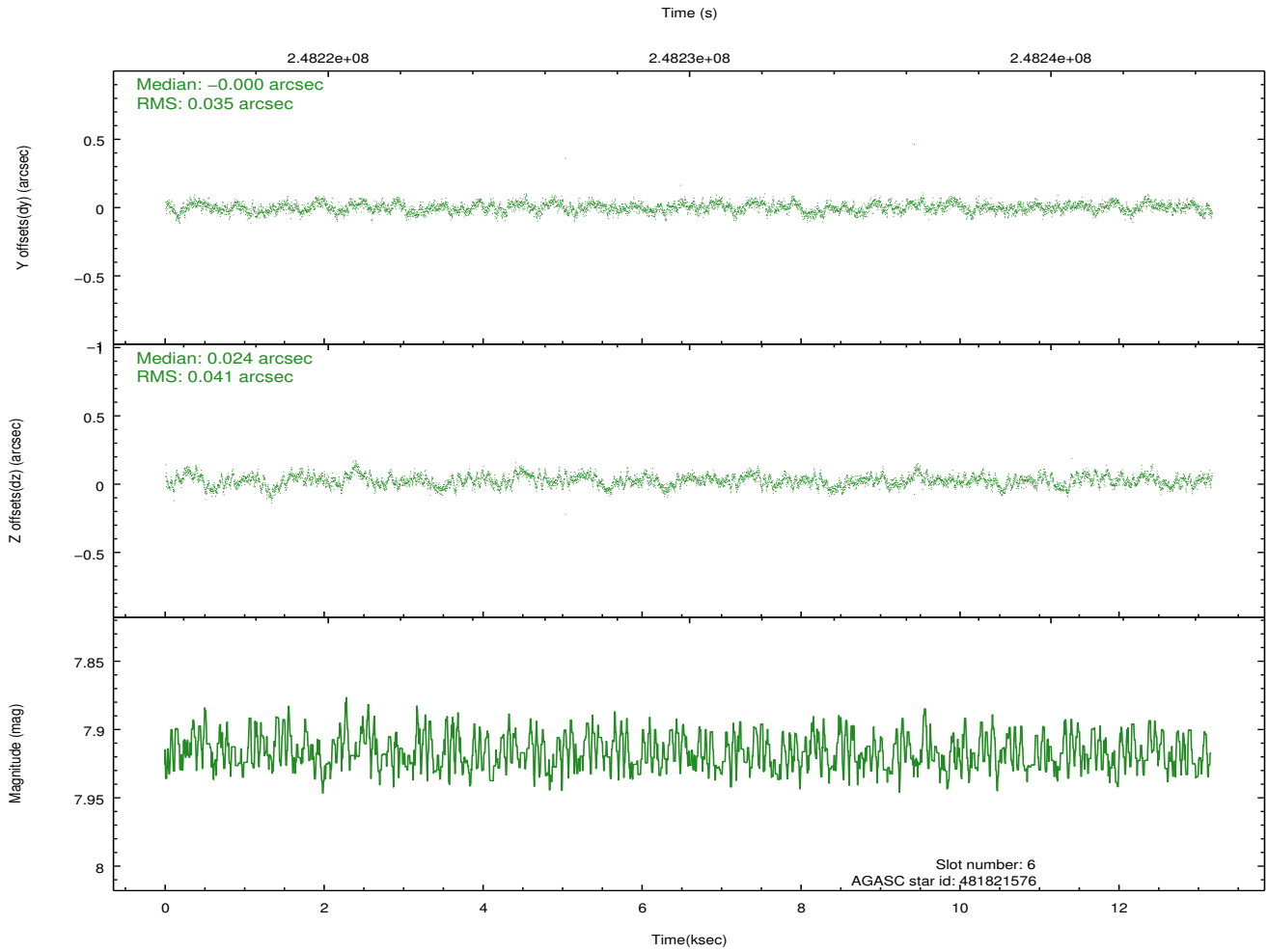
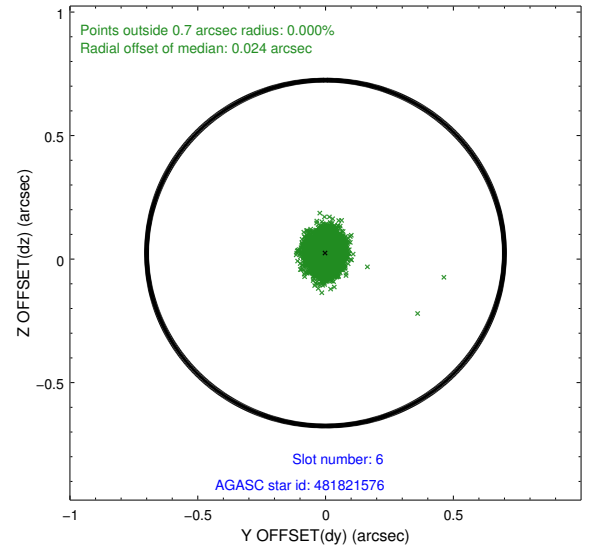
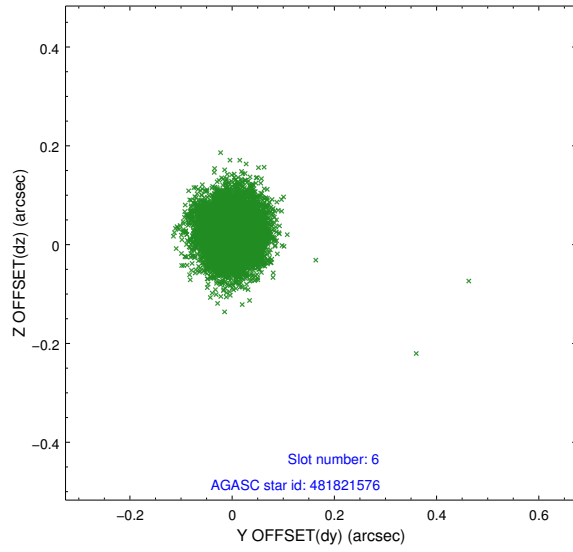
## 2.4.2 Slot 4



### 2.4.3 Slot 5

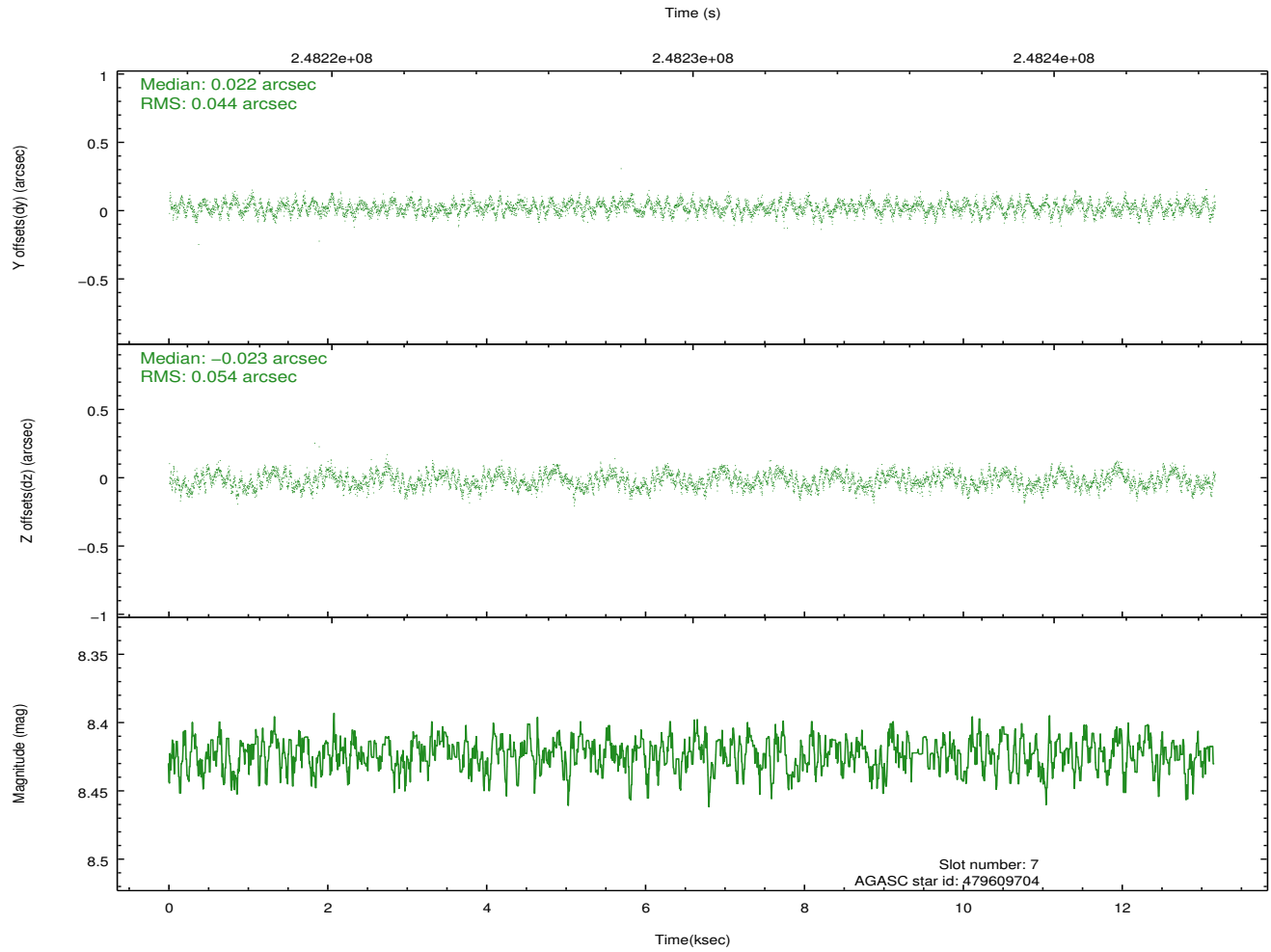
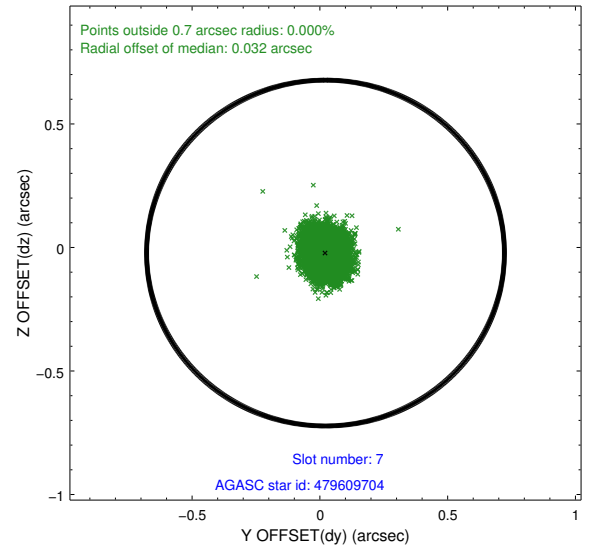
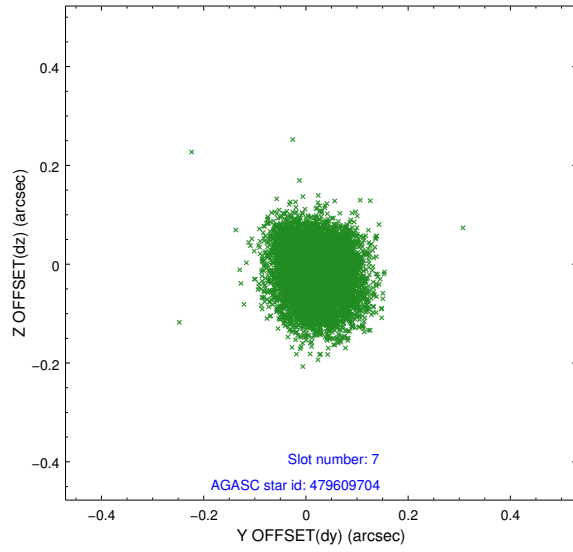


## 2.4.4 Slot 6



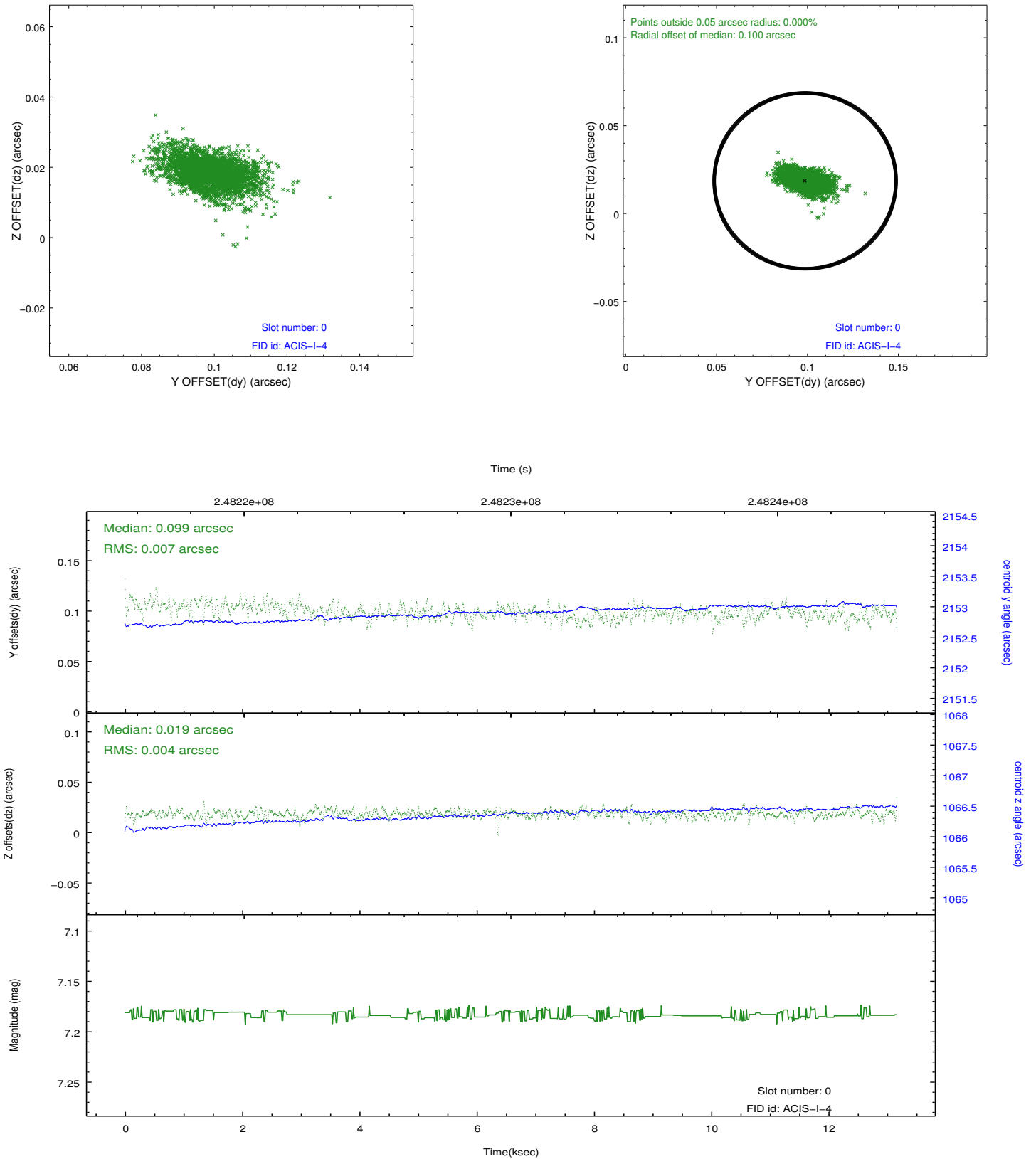


## 2.4.5 Slot 7

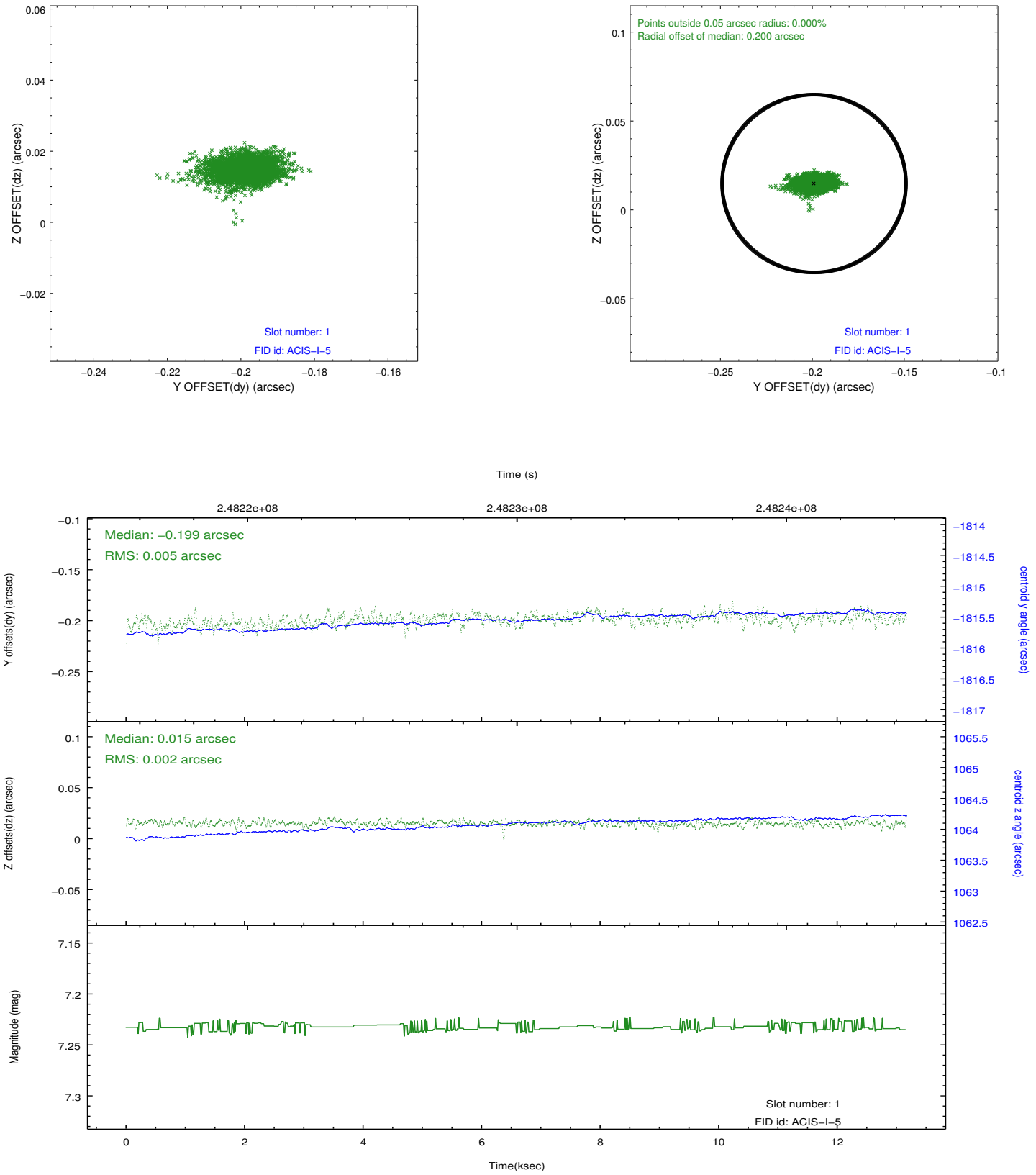


## 2.5 FID Slots

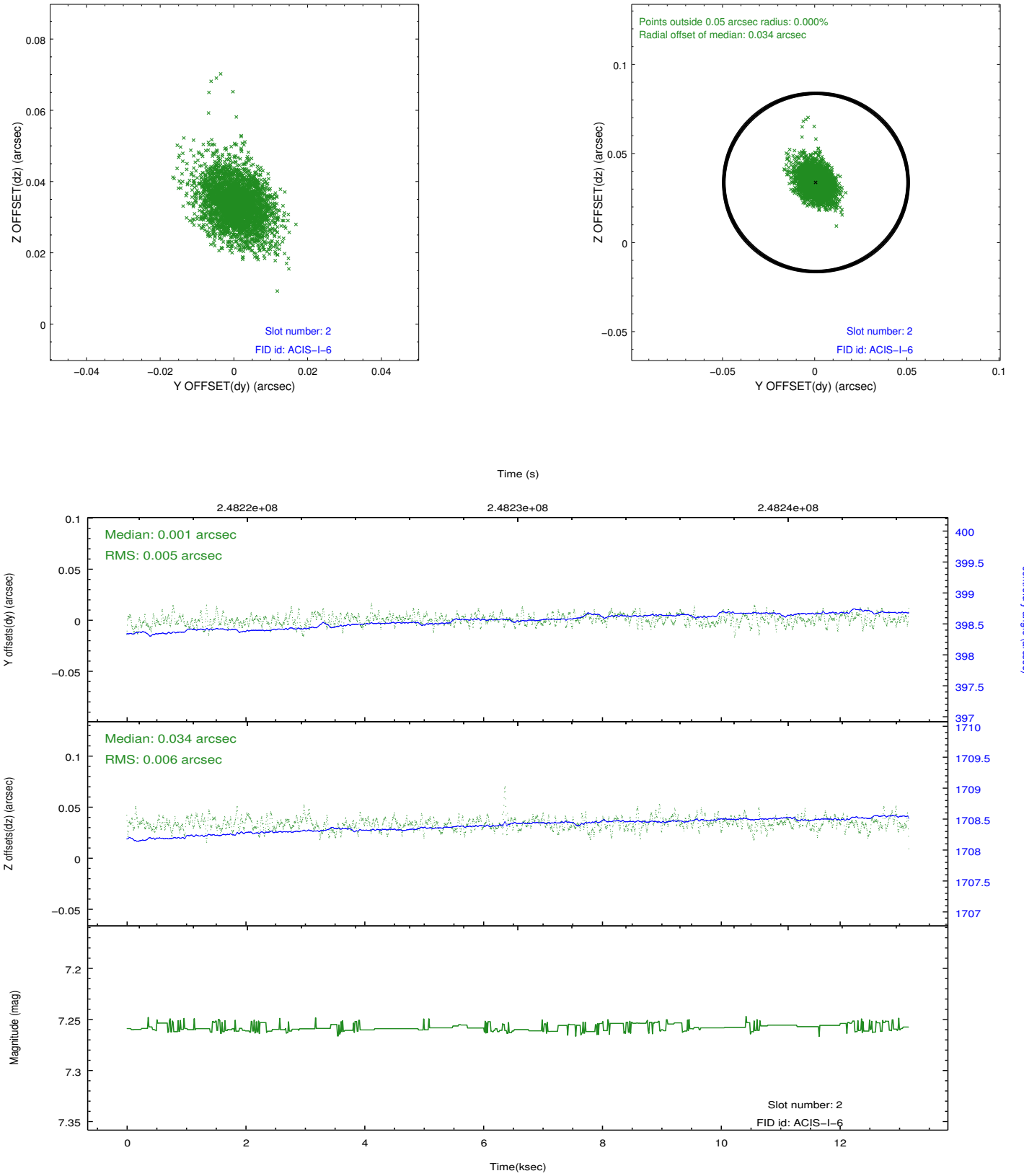
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



## A Summary

### A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.03.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	13.16159

### A.2 Comments