

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 2954 - L2 Version 3  
Chandra X-Ray Center

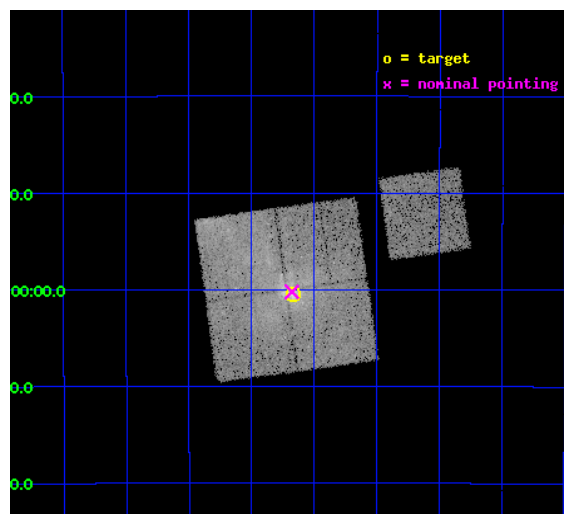
L2 Processing Date : Oct 7 2012

## 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

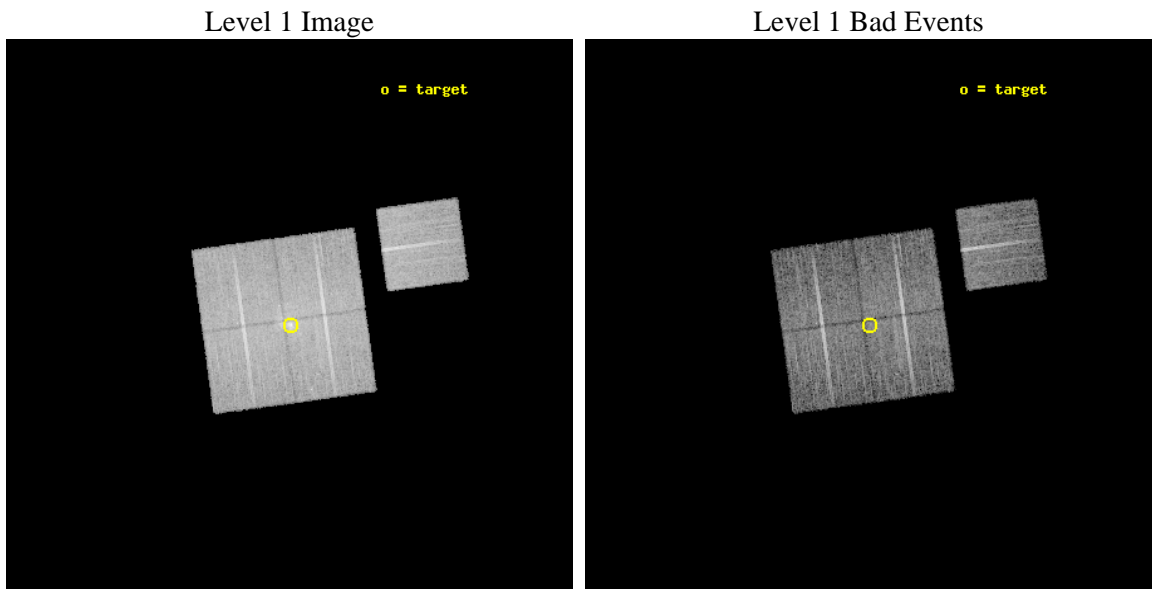
seq_num	600291	Sequence number
obs_id	2954	Observation id
title	SIMULTANEOUS X-RAY/RADIO MONITORING OF SAGITTARIUS A*	Proposal tit
observer	Professor Gordon Garmire	Principal investigator
object	SGR A*	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	266.416667	Observer's specified target RA [deg]
dec_targ	-29.007778	Observer's specified target Dec [deg]
ra_nom	266.41938162242	Nominal RA [deg]
dec_nom	-29.003744307532	Nominal Dec [deg]
roll_nom	82.117864036088	Nominal Roll [deg]
revision	3	Processing version of data
ontime	12616.999975711	Sum of GTIs [s]
livetime	12452.149582528	Livetime [s]
ontime0	12616.999975711	Sum of GTIs [s]
ontime1	12616.999975711	Sum of GTIs [s]
ontime2	12616.999975711	Sum of GTIs [s]
ontime3	12616.999975711	Sum of GTIs [s]
ontime6	12616.999975711	Sum of GTIs [s]
l2events	94442	Number of level 2 events



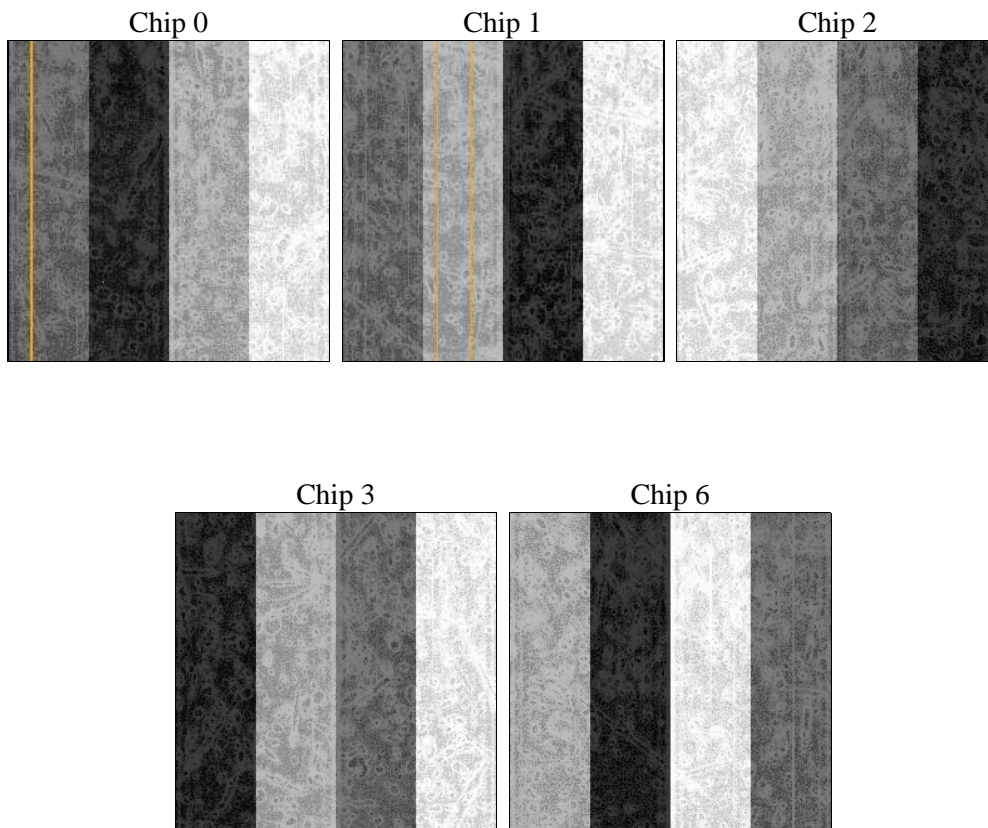
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	12500.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	12616.999975711	Sum of GTIs [s]
caldbver	4.5.2	&#160	ontime0	12616.999975711	Sum of GTIs [s]
date	2012-10-07T08:55:23	Date and time of file creation	ontime1	12616.999975711	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	12616.999975711	Sum of GTIs [s]
			ontime3	12616.999975711	Sum of GTIs [s]
			ontime6	12616.999975711	Sum of GTIs [s]
			l1events	466533	Number of level 1 events

### 2.1.4 Events

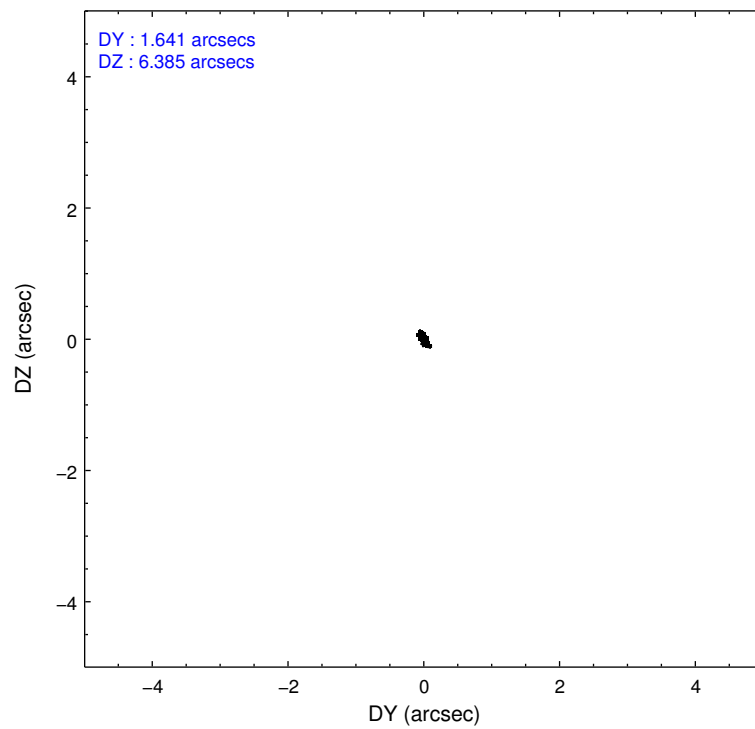
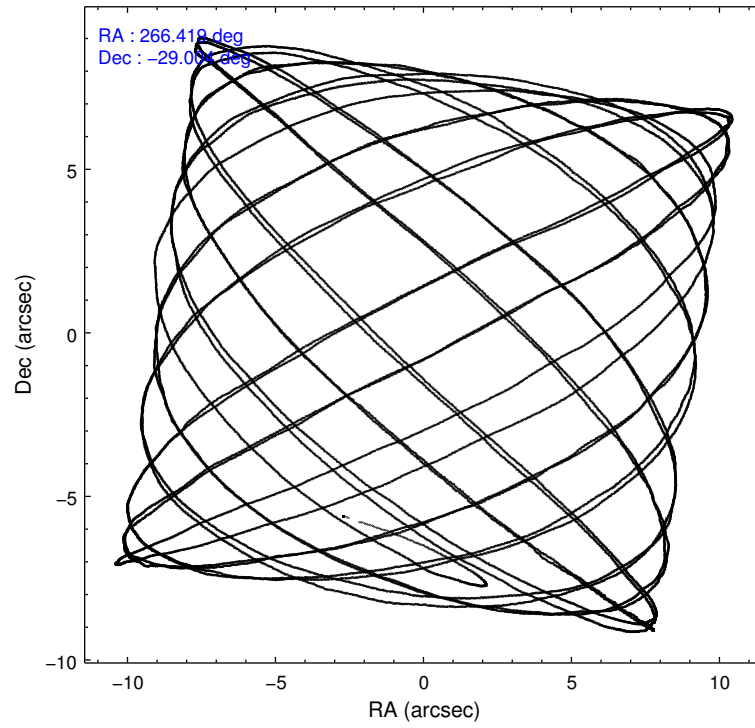
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	95286	92325	94589	97148	87185
rejected events	66843	70884	74885	73821	75354
rejected %	70%	76%	79%	75%	86%

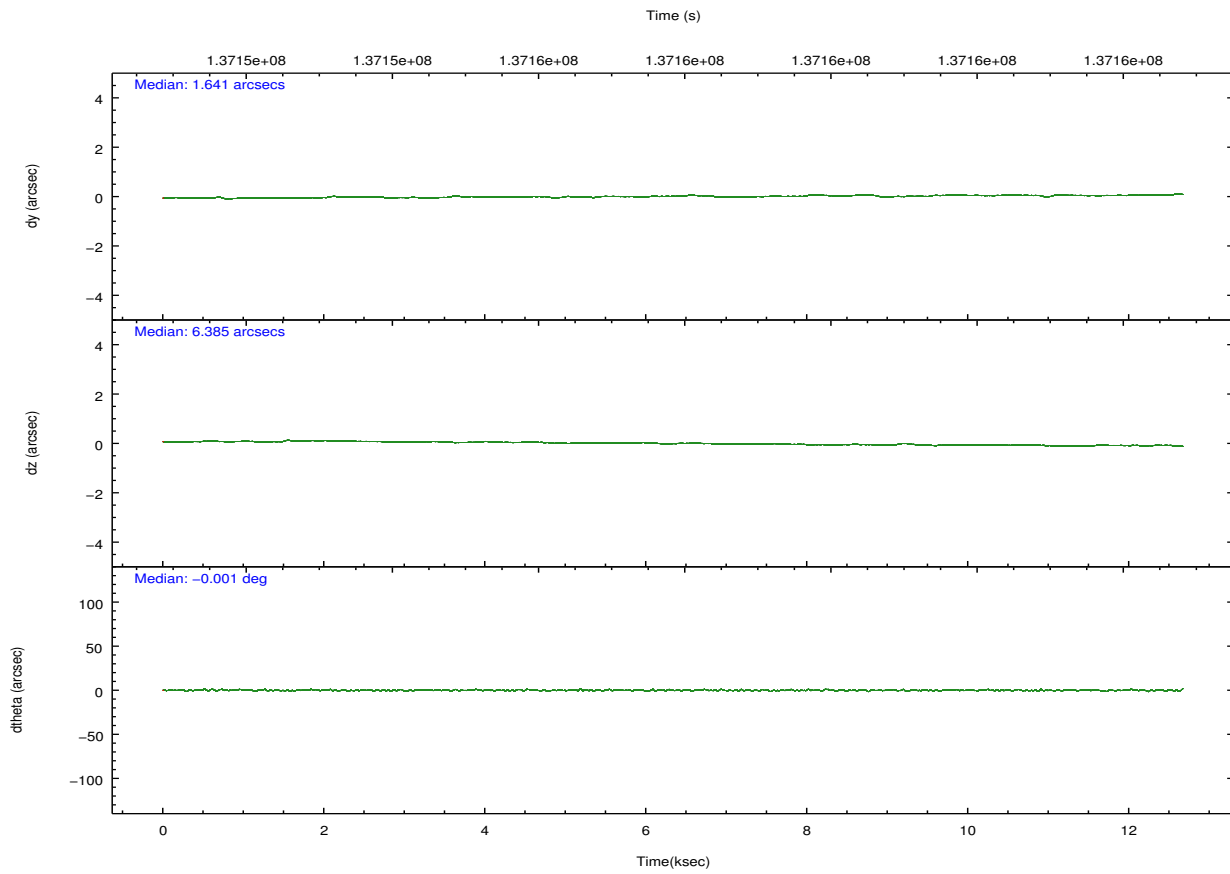
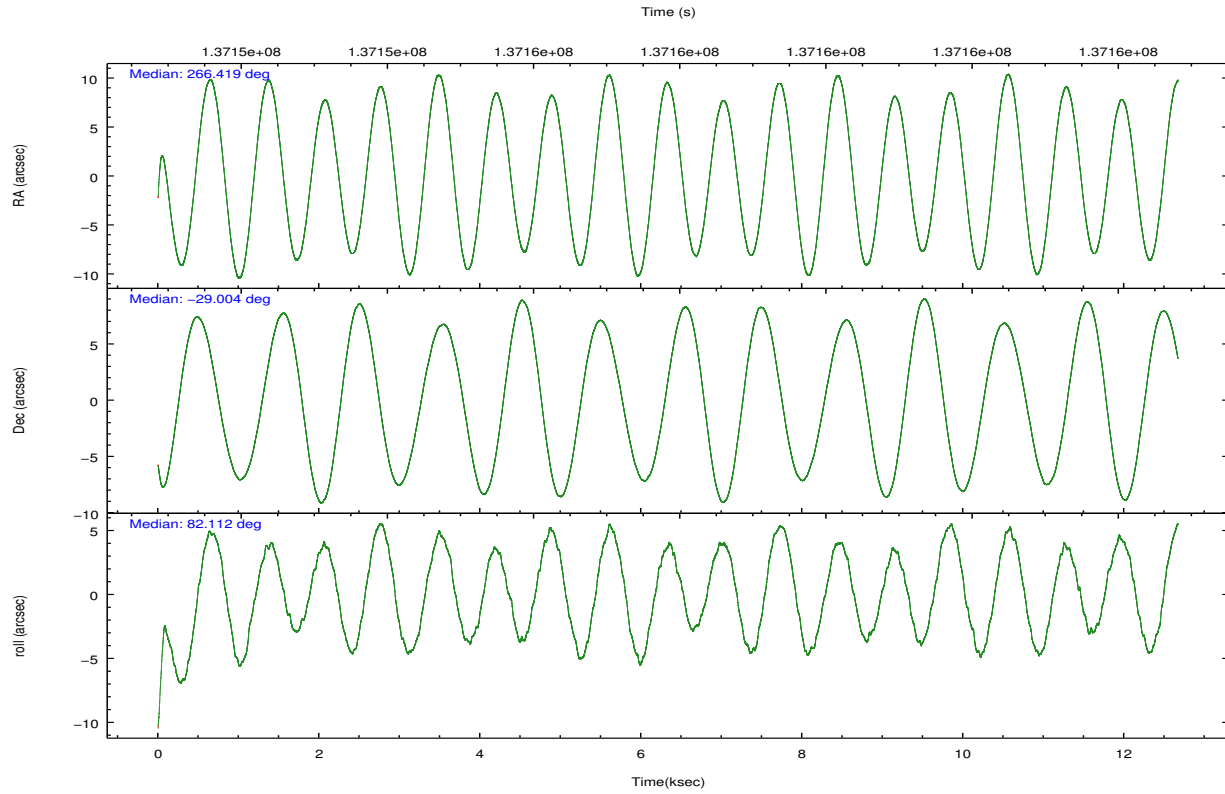
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	17025	11928	11026	13469	5433
	17%	12%	11%	13%	6%
grade 1 events	128	70	90	75	50
	0%	0%	0%	0%	0%
grade 2 events	4785	3693	3486	3870	2206
	5%	4%	3%	3%	2%
grade 3 events	1806	1593	1366	1538	1100
	1%	1%	1%	1%	1%
grade 4 events	1727	1562	1386	1634	1054
	1%	1%	1%	1%	1%
grade 5 events	3282	3416	3056	3508	3613
	3%	3%	3%	3%	4%
grade 6 events	3108	2677	2452	2828	2043
	3%	2%	2%	2%	2%
grade 7 events	63425	67386	71727	70226	71686
	66%	72%	75%	72%	82%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01236	ACIS-01236	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	266.431294	266.4193816224246	Subarray requested	NONE	NONE
[deg] Pointing Dec	-29.029126	-29.00374430753195	Alternating exposures requested	N	N
[deg] Pointing Roll	81.914961	82.11786403608836	[s] Primary exposure time	0.000000	3.1
[s] Window start time (MET)	137151664.184000	137151664.184000			
[s] Window stop time (MET)	137164264.184000	137164264.184000			
[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)	137151678.184000	137150707.54117			
Observation start date	2002-05-07T09:40:14	2002-05-07T09:25:07			
[s] Observation end time (MET)	137164178.184000	137164816.15424			
Observation end date	2002-05-07T13:08:34	2002-05-07T13:20:16			
Read mode	TIMED	TIMED			

## 2.3 Aspect



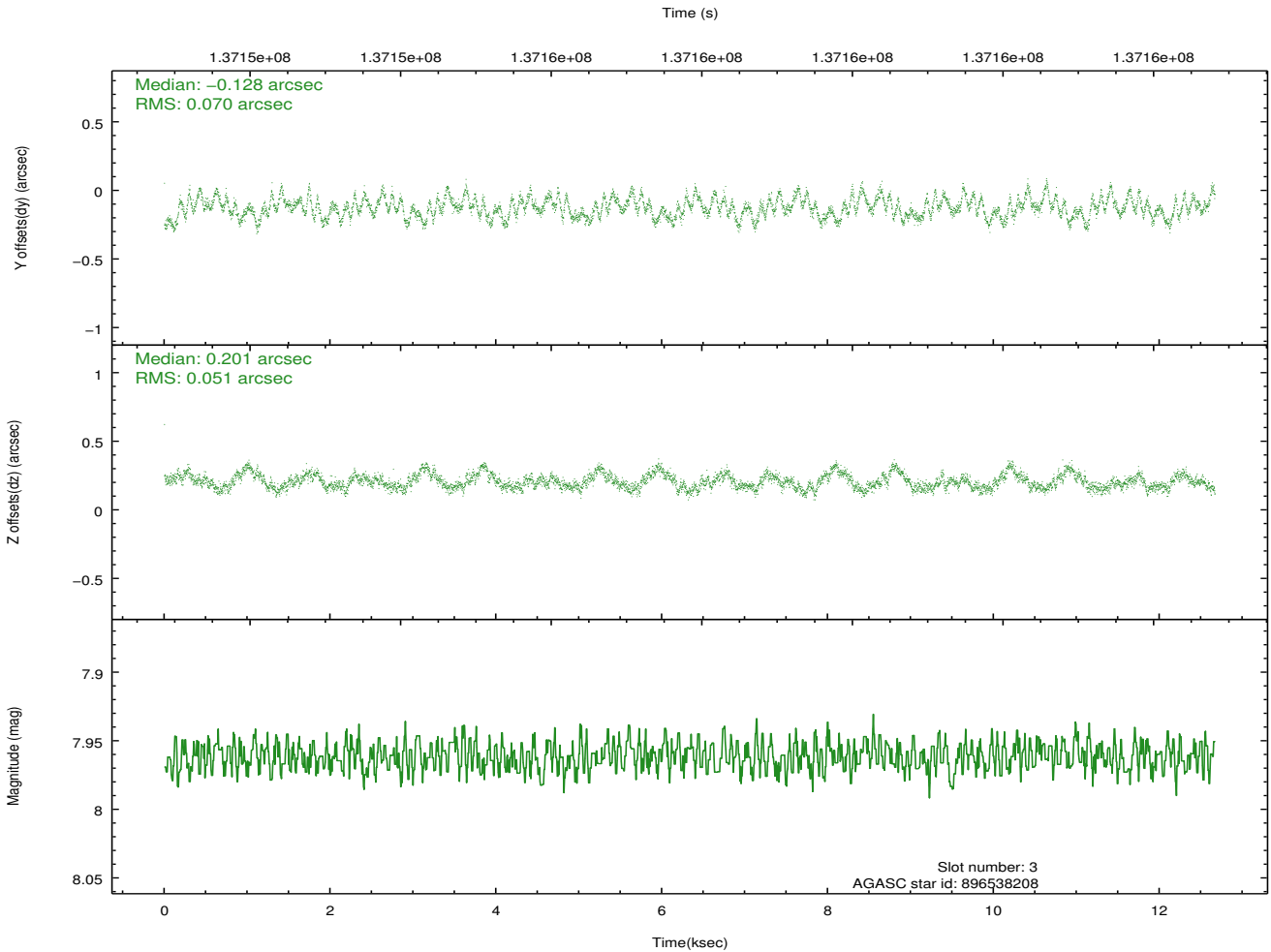
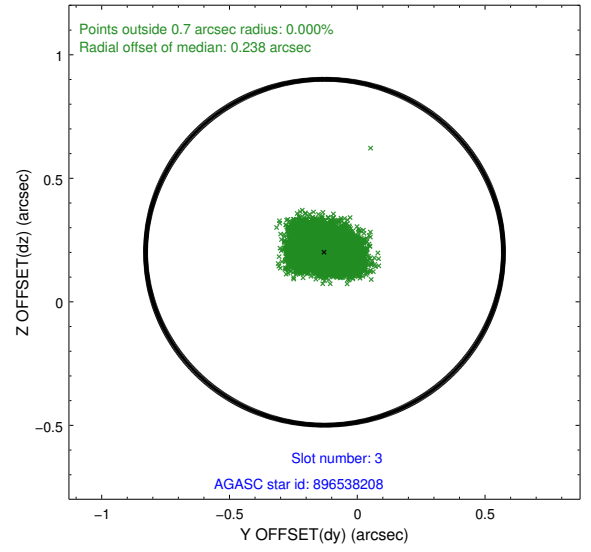
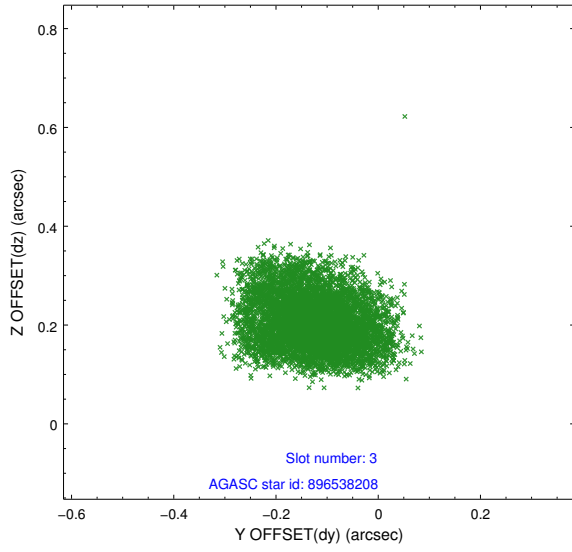


### Slot Statistics

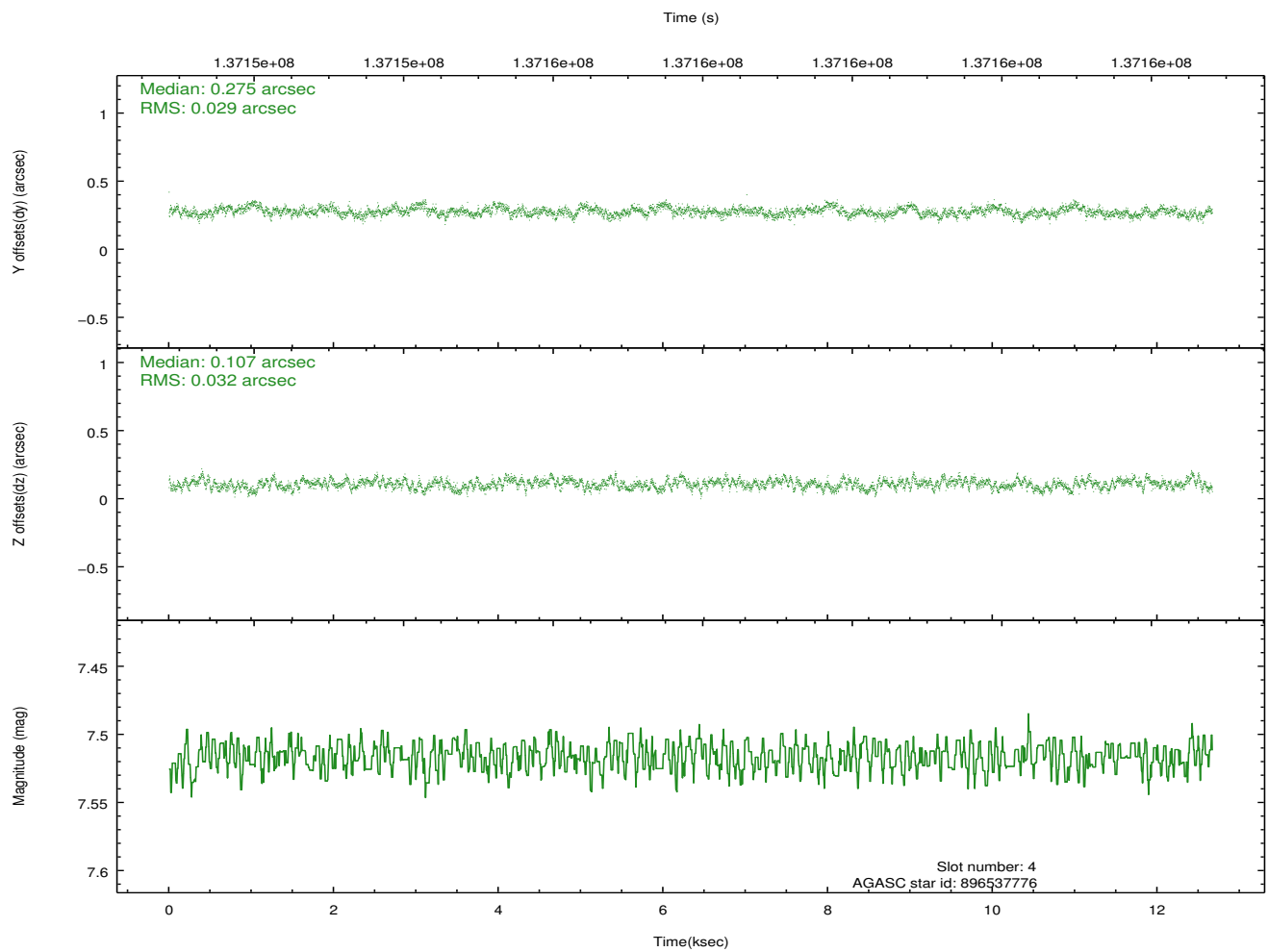
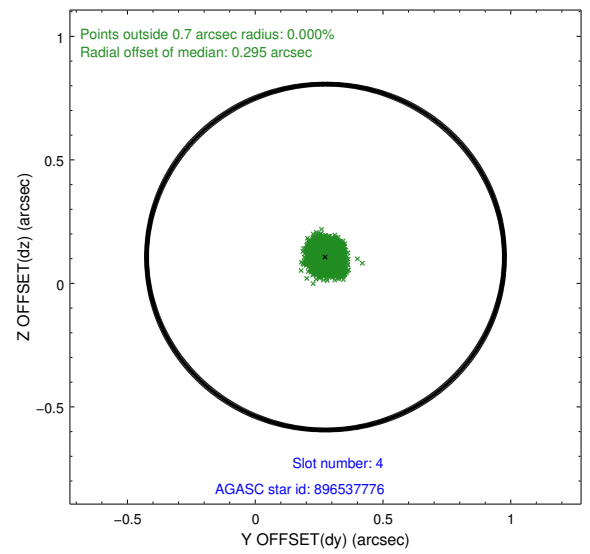
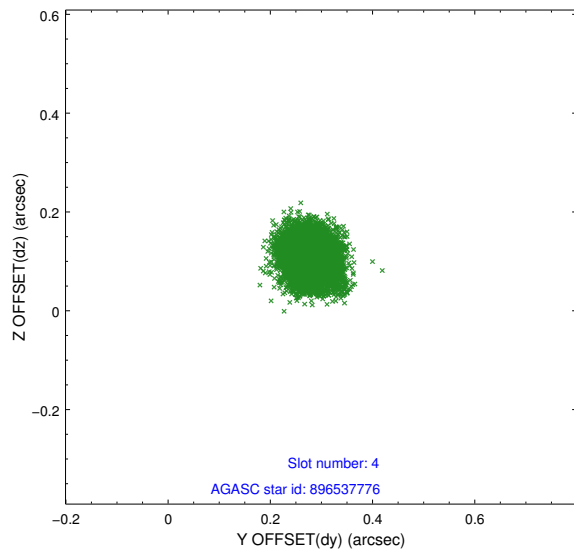
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.25	3089	-0.029	-0.059	0.007	0.011	0.000000	0.000000	938.14	-829.84
1	FID	ACIS-I-3	7.45	3089	0.006	0.167	0.007	0.012	0.000000	0.000000	55.89	-963.09
2	FID	ACIS-I-6	7.26	3090	-0.066	-0.041	0.006	0.011	0.000000	0.000000	403.89	1711.77
3	GUIDE	896538208	7.96	6178	-0.128	0.201	0.095	0.148	267.176969	-28.671626	1599.16	-2151.89
4	GUIDE	896537776	7.52	6179	0.275	0.107	0.046	0.073	266.655684	-29.665673	-2169.23	-1018.18
5	GUIDE	896535464	9.35	6178	-0.069	0.150	0.093	0.151	266.962550	-28.408631	2445.08	-1352.01
6	GUIDE	896403224	8.30	6179	0.274	-0.262	0.081	0.136	265.612825	-29.438915	-1829.14	2330.84
7	GUIDE	896538696	6.79	6179	-0.357	-0.204	0.055	0.088	266.298470	-28.325572	2448.34	773.08

## 2.4 Star Slots

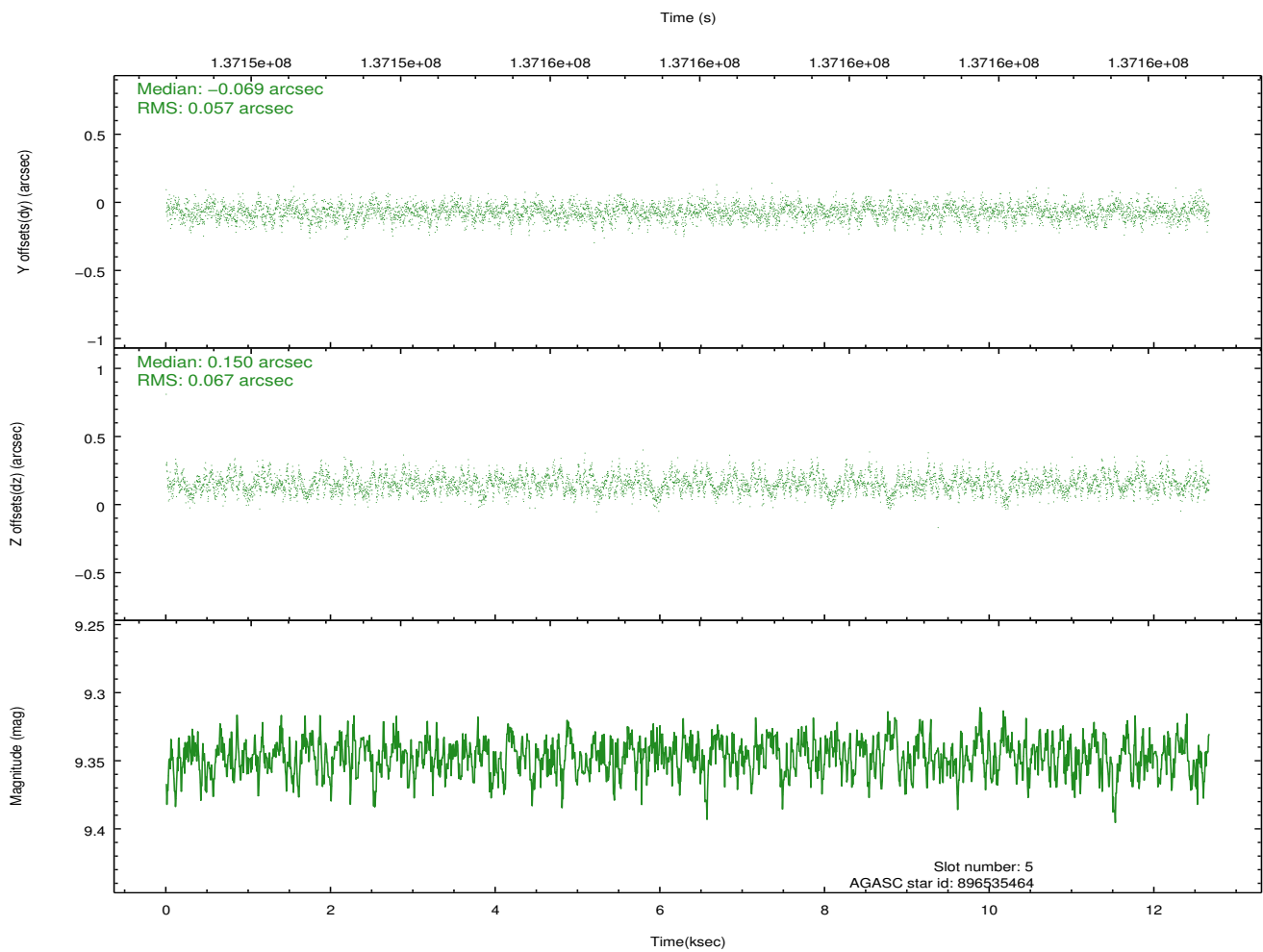
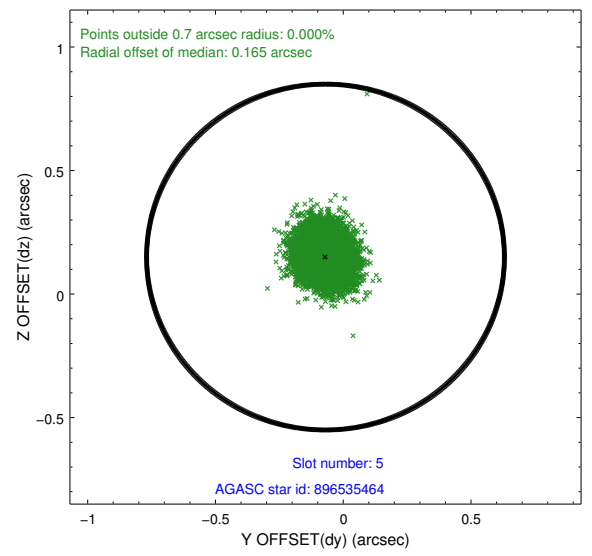
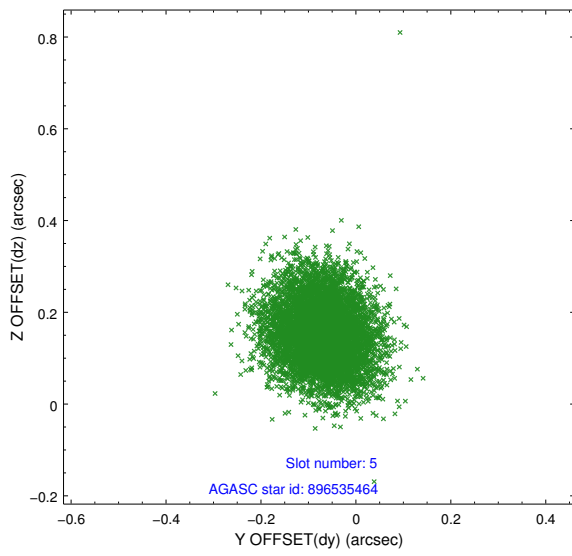
### 2.4.1 Slot 3



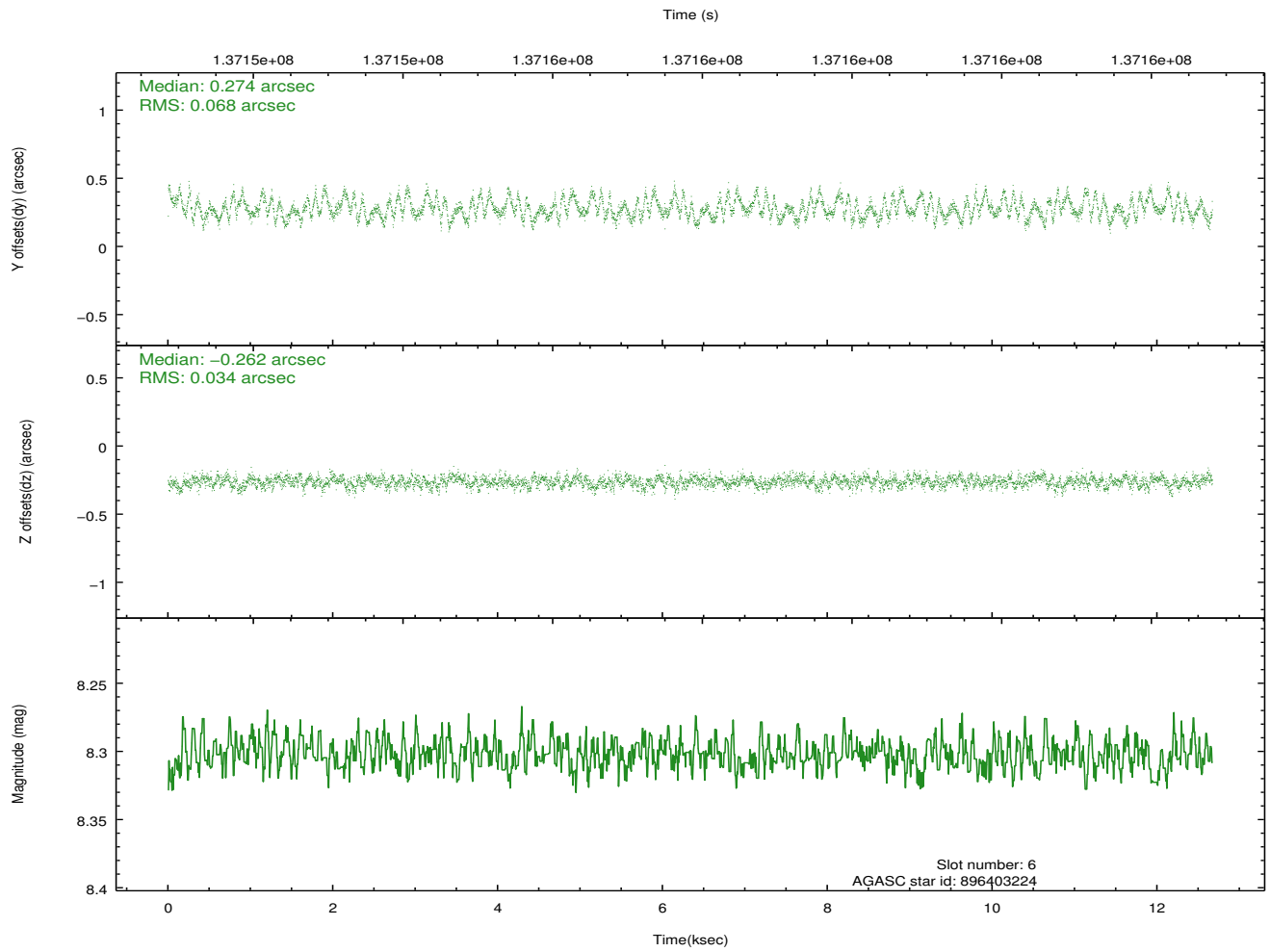
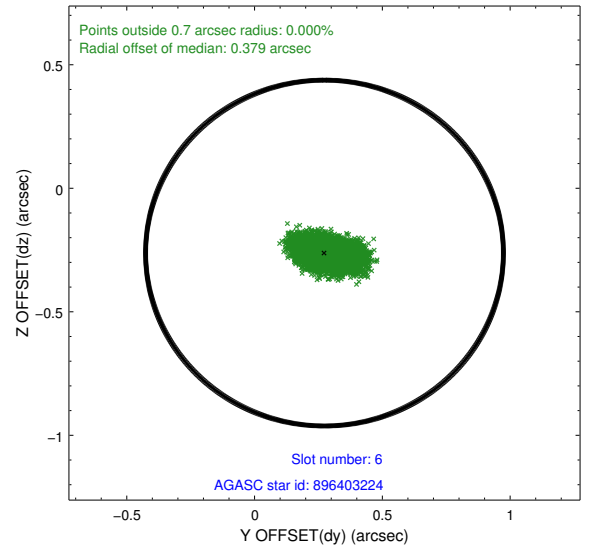
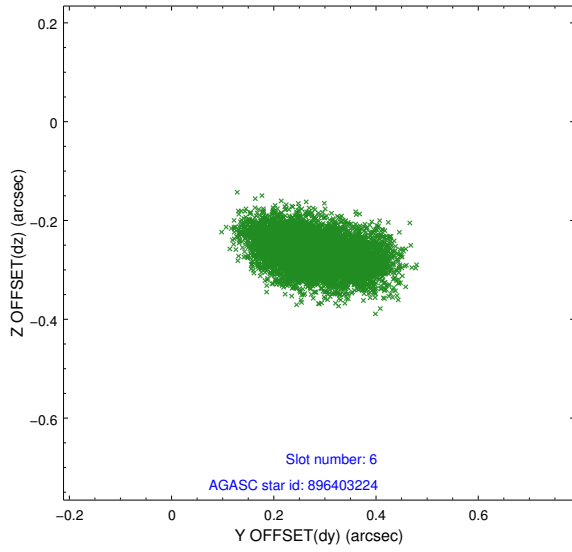
## 2.4.2 Slot 4



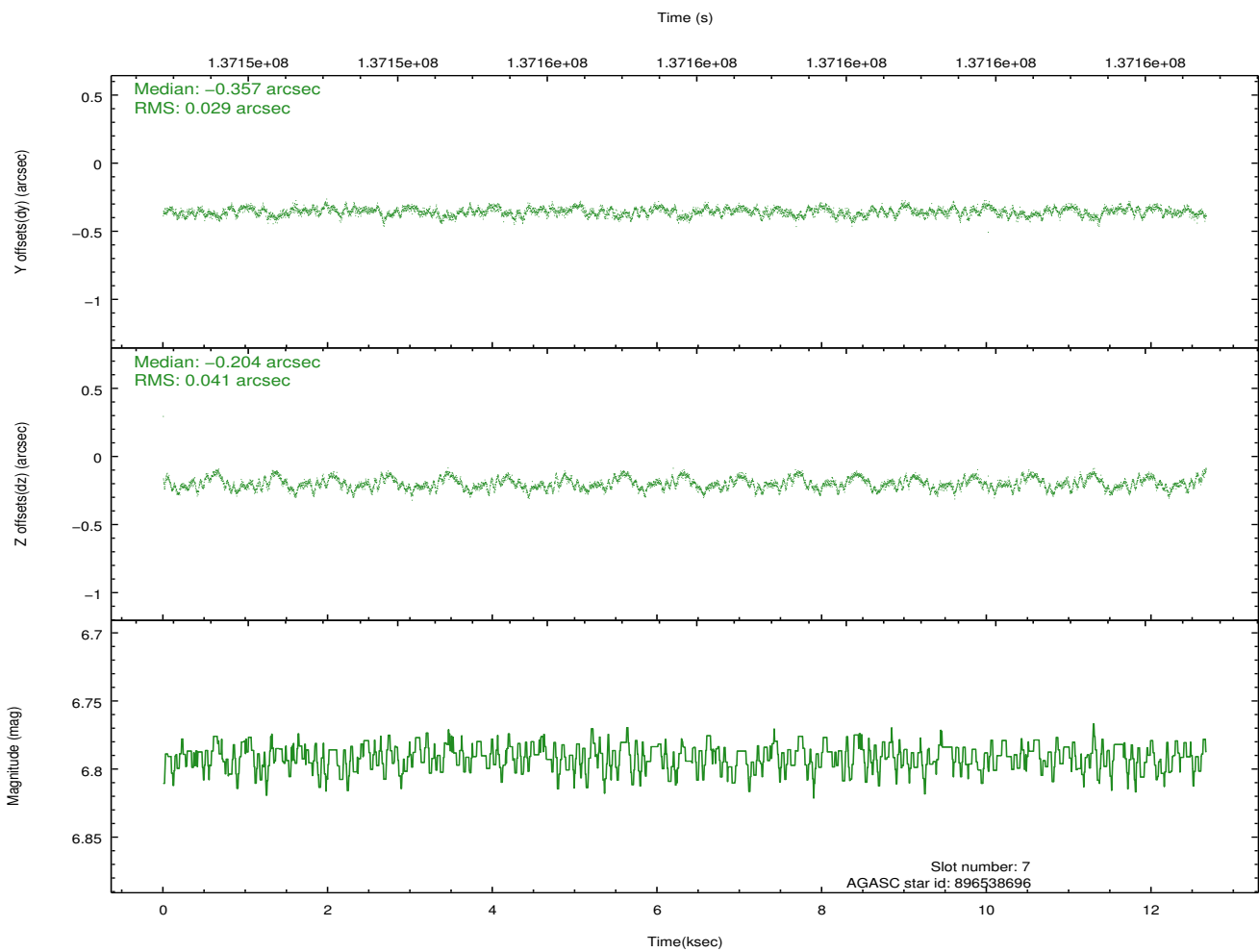
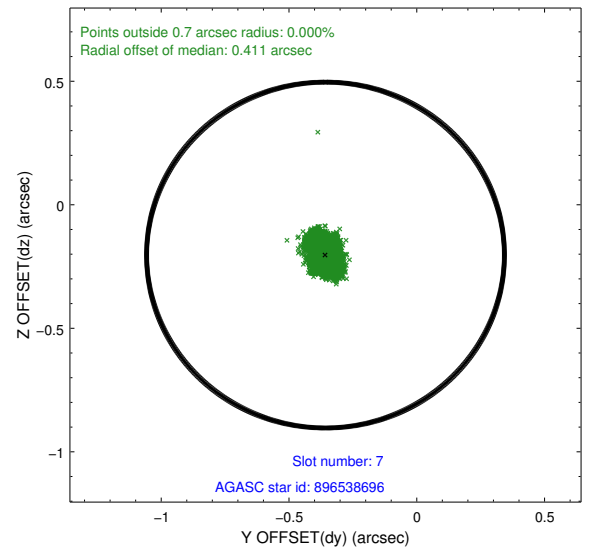
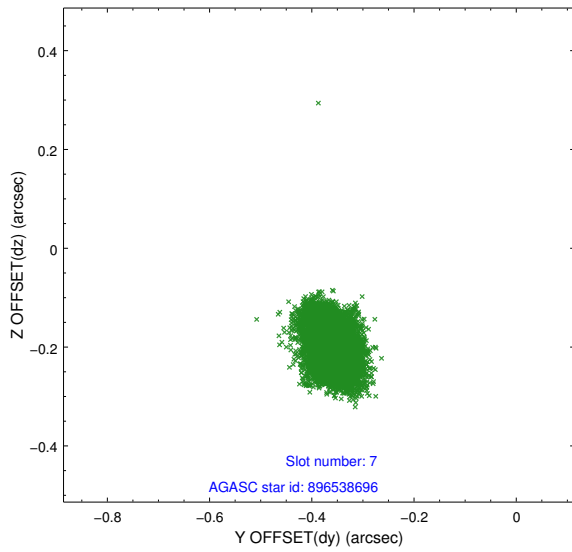
### 2.4.3 Slot 5



## 2.4.4 Slot 6

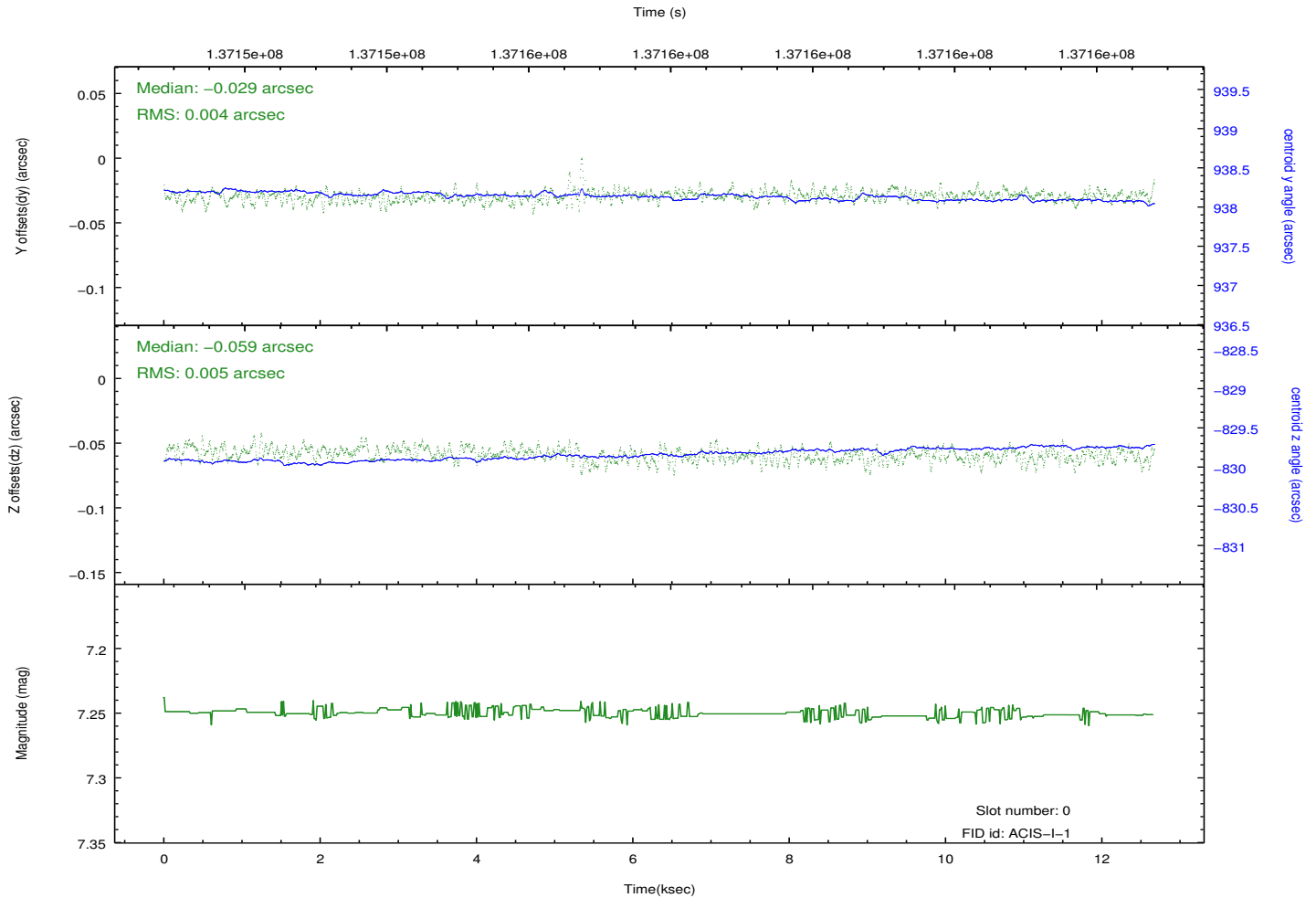
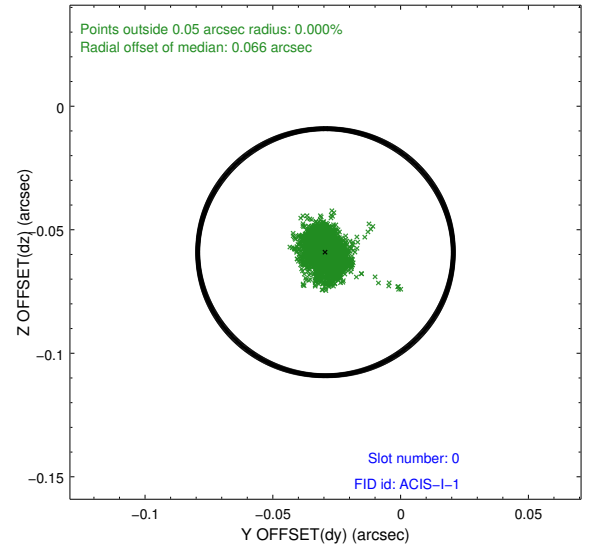
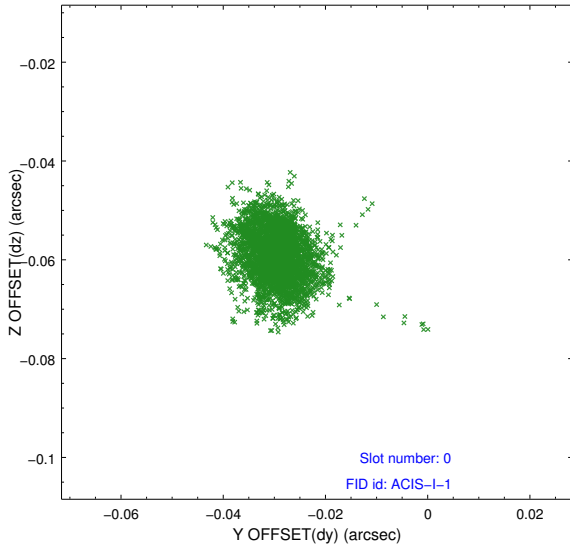


## 2.4.5 Slot 7

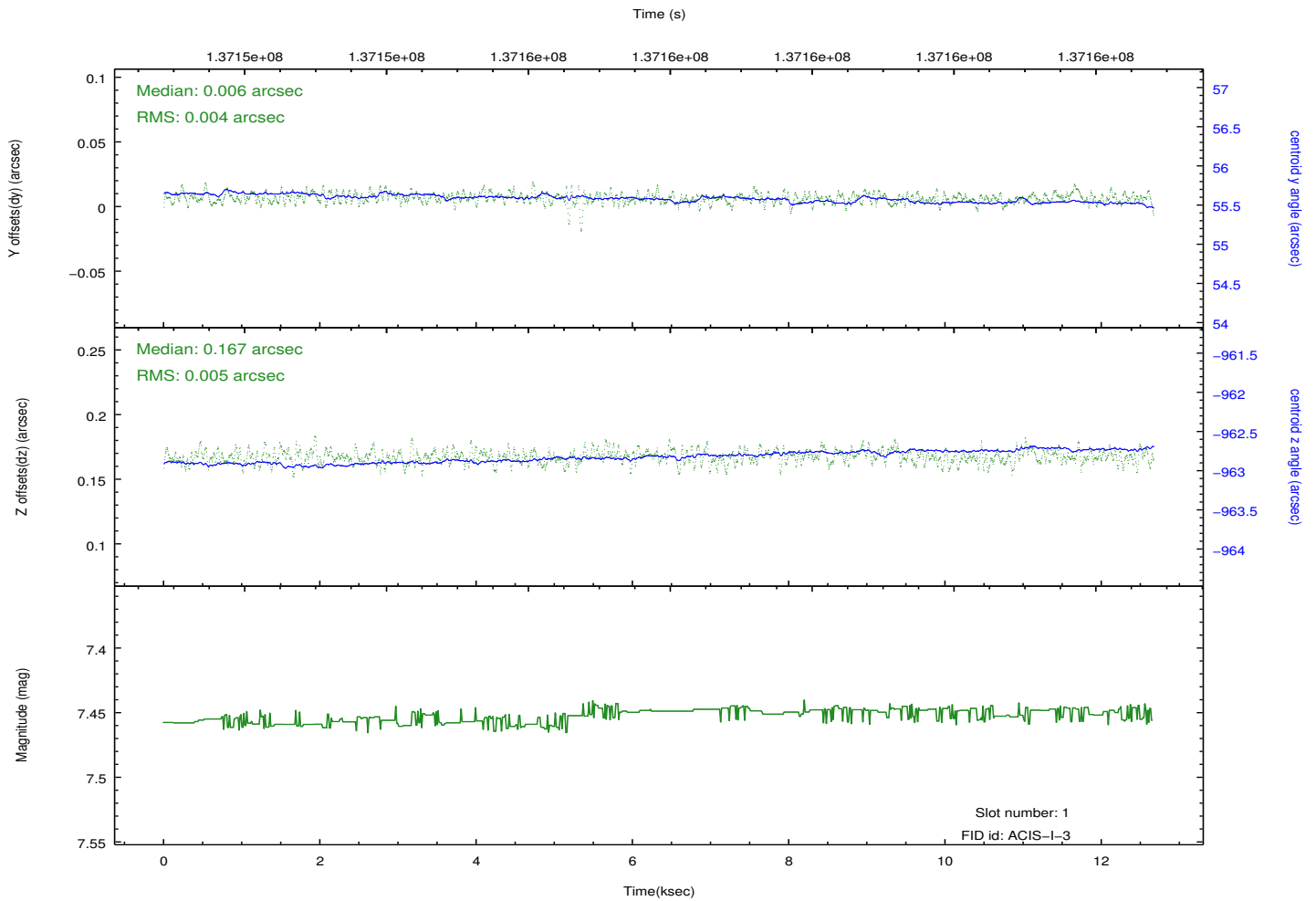
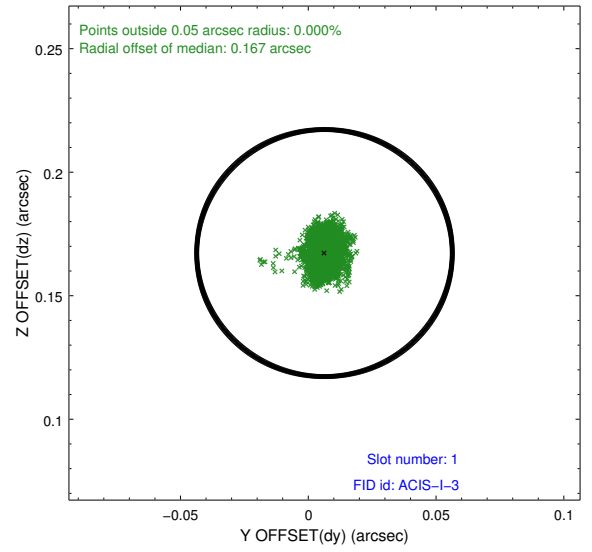
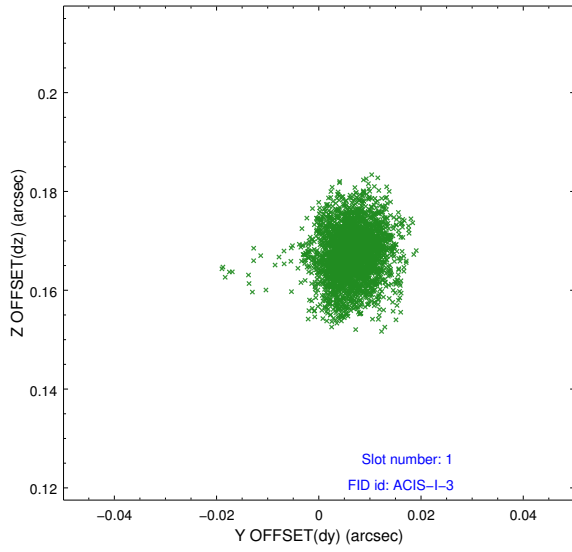


## 2.5 FID Slots

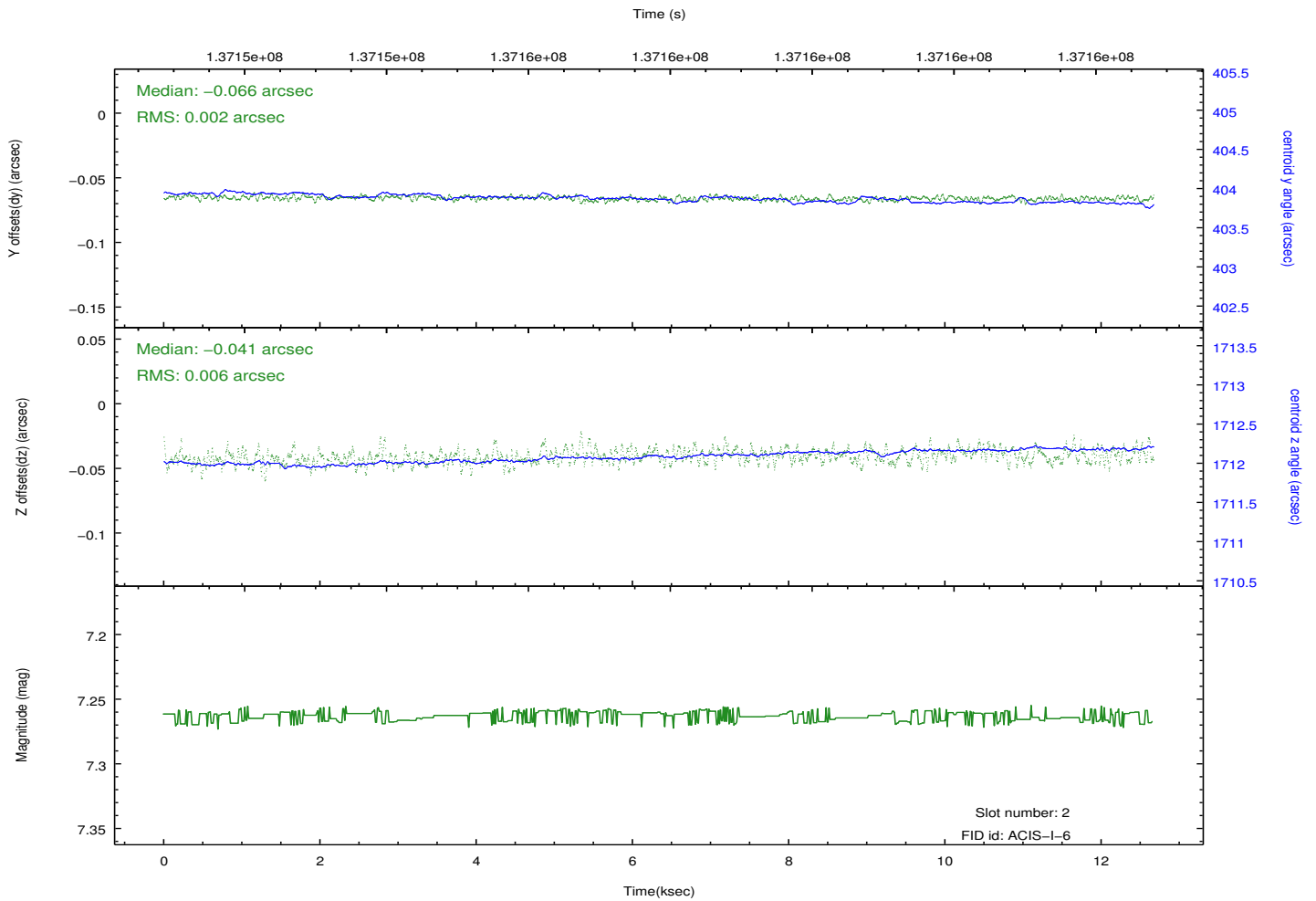
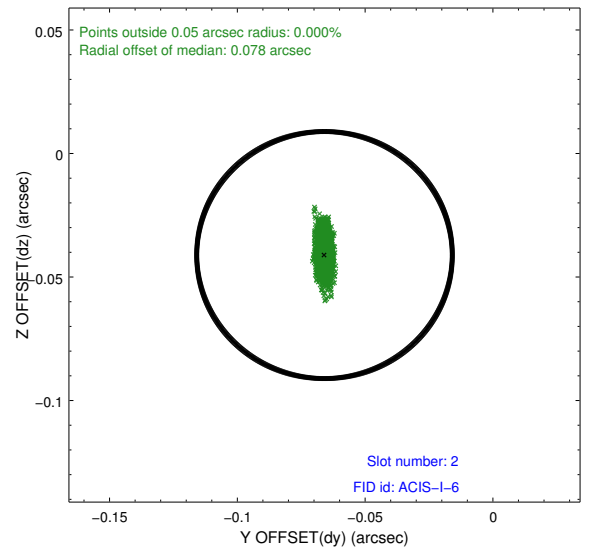
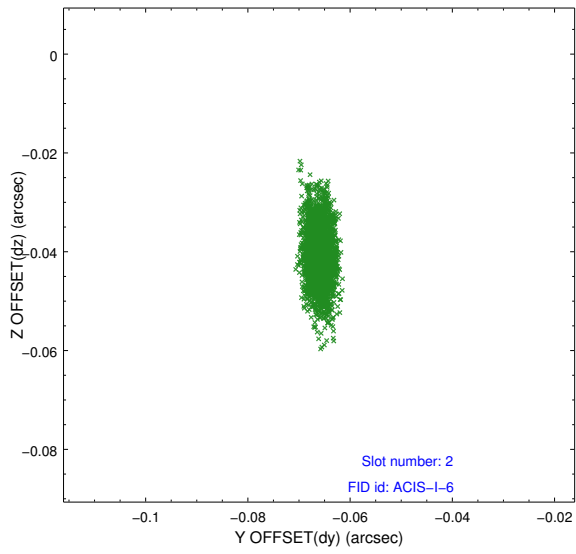
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



# A Summary

## A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.10.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	12.62

## A.2 Comments

Window preference met.