

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 2169 - L2 Version 3  
Chandra X-Ray Center

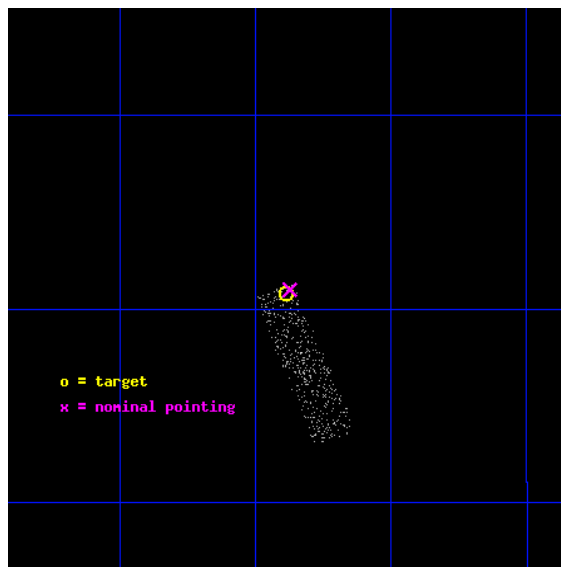
L2 Processing Date : Sep 15 2012

## 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

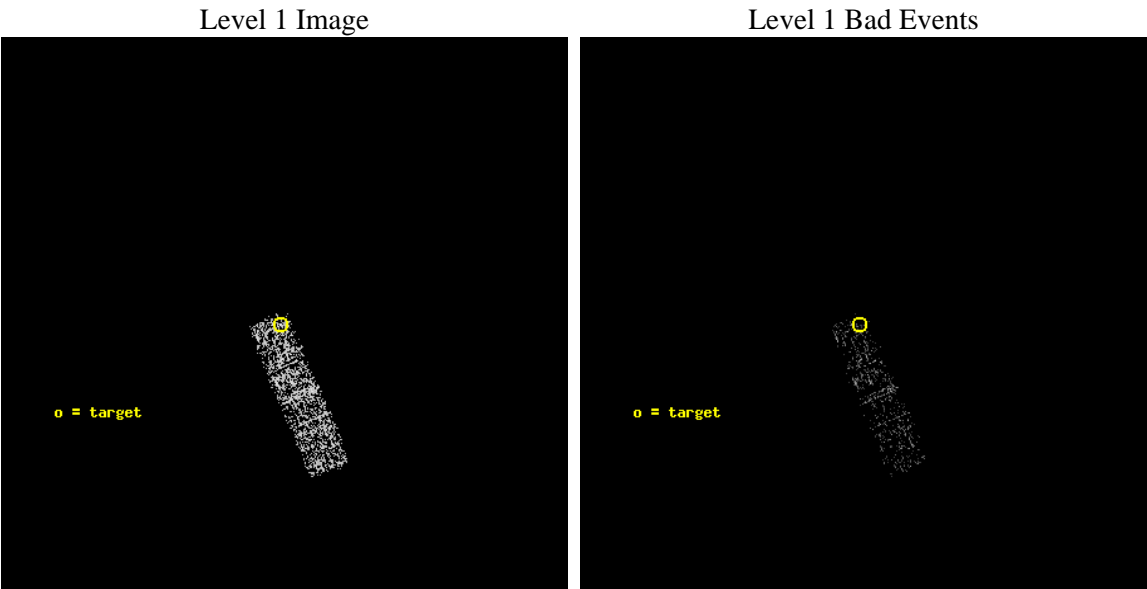
seq_num	700359	Sequence number
obs_id	2169	Observation id
title	RED QUASARS AND THE X-RAY BACKGROUND	Proposal title
observer	Dr. Belinda Wilkes	Principal investigator
object	2MASSJ151653+1900	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	229.221667	Observer's specified target RA [deg]
dec_targ	19.013444	Observer's specified target Dec [deg]
ra_nom	229.21834685225	Nominal RA [deg]
dec_nom	19.016602790002	Nominal Dec [deg]
roll_nom	156.57129695038	Nominal Roll [deg]
revision	3	Processing version of data
ontime	1189.5999955833	Sum of GTIs [s]
livetime	1131.5514083357	Livetime [s]
ontime3	1189.5999955833	Sum of GTIs [s]
l2events	508	Number of level 2 events



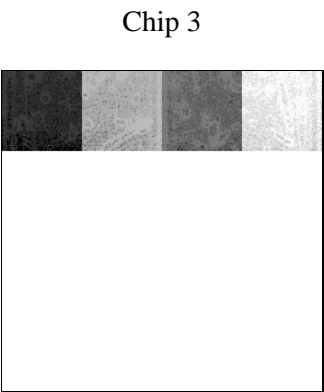
# 2 OBI

## 2.1 OBI

### 2.1.1 Images



### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	1000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	1189.5999955833	Sum of GTIs [s]
caldsver	4.5.1.1	&#160	ontime3	1189.5999955833	Sum of GTIs [s]
date	2012-09-15T15:16:16	Date and time of file creation	l1events	6531	Number of level 1 events
revision	3	Processing version of data			

### 2.1.4 Events

	<b>ccd 3</b>
level 1 events	6531
rejected events	5966
rejected %	91%

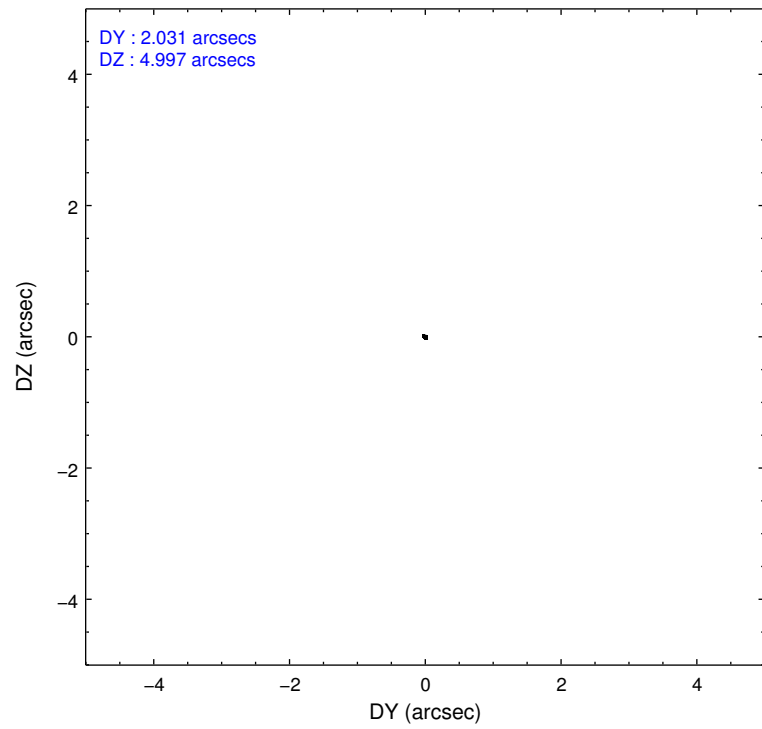
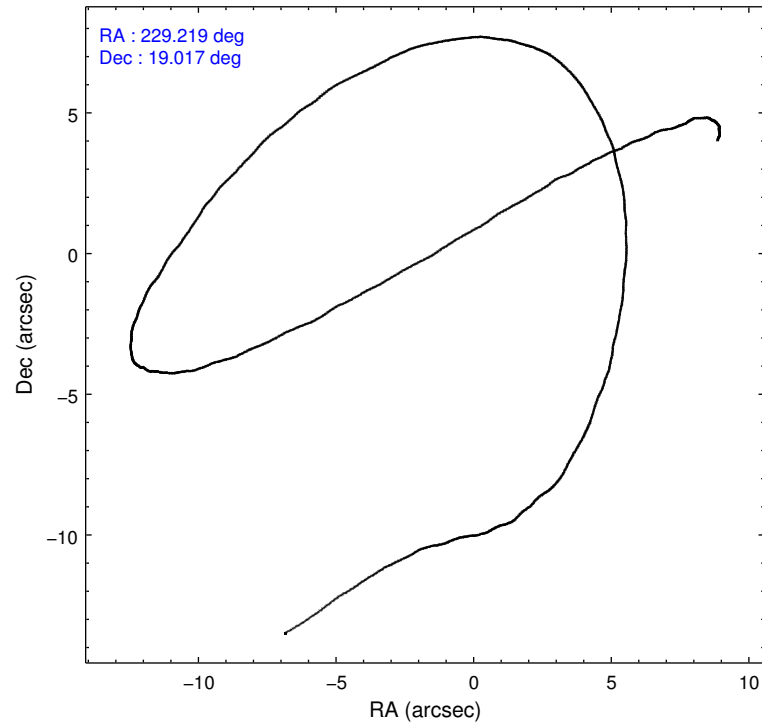
	<b>ccd 3</b>
grade 0 events	318
	4%
grade 1 events	2
	0%
grade 2 events	267
	4%
grade 3 events	108
	1%
grade 4 events	92
	1%
grade 5 events	142
	2%
grade 6 events	237
	3%
grade 7 events	5365
	82%

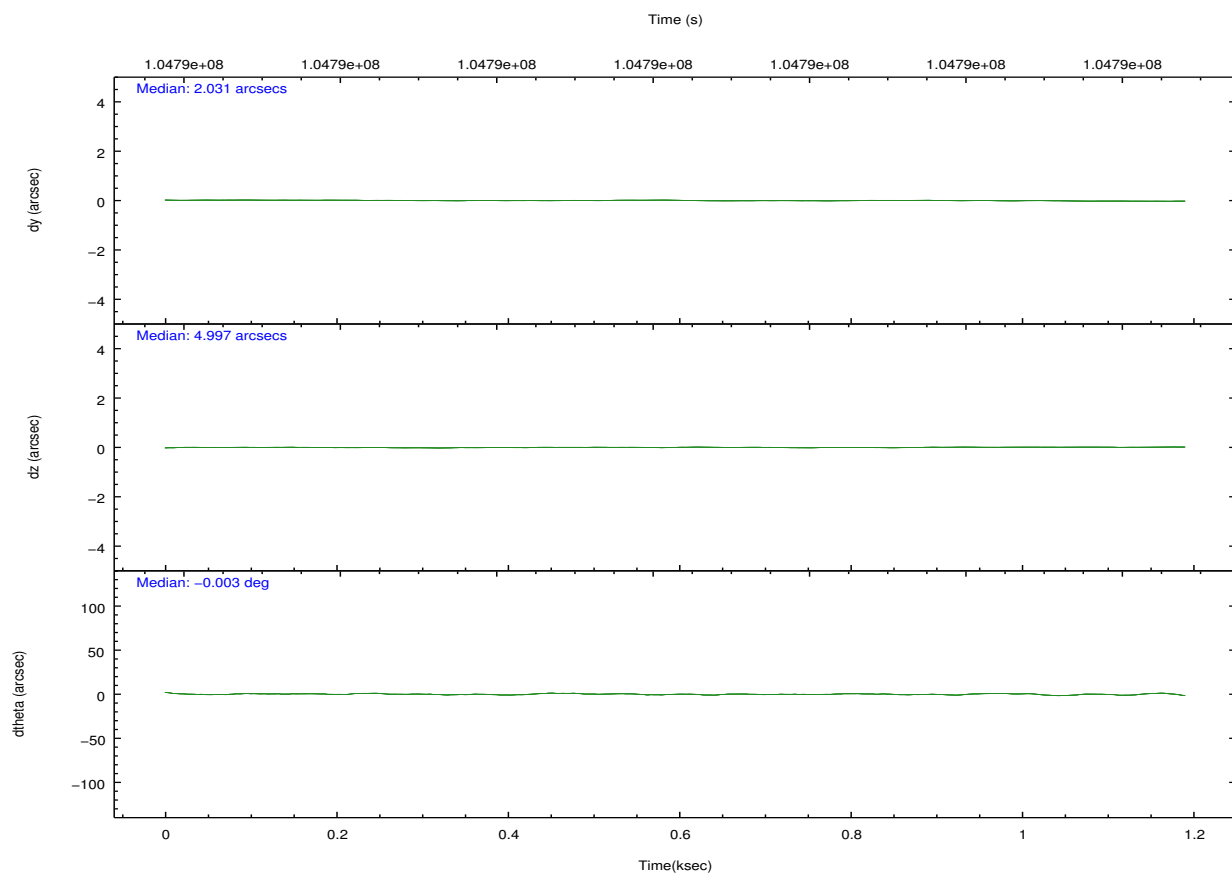
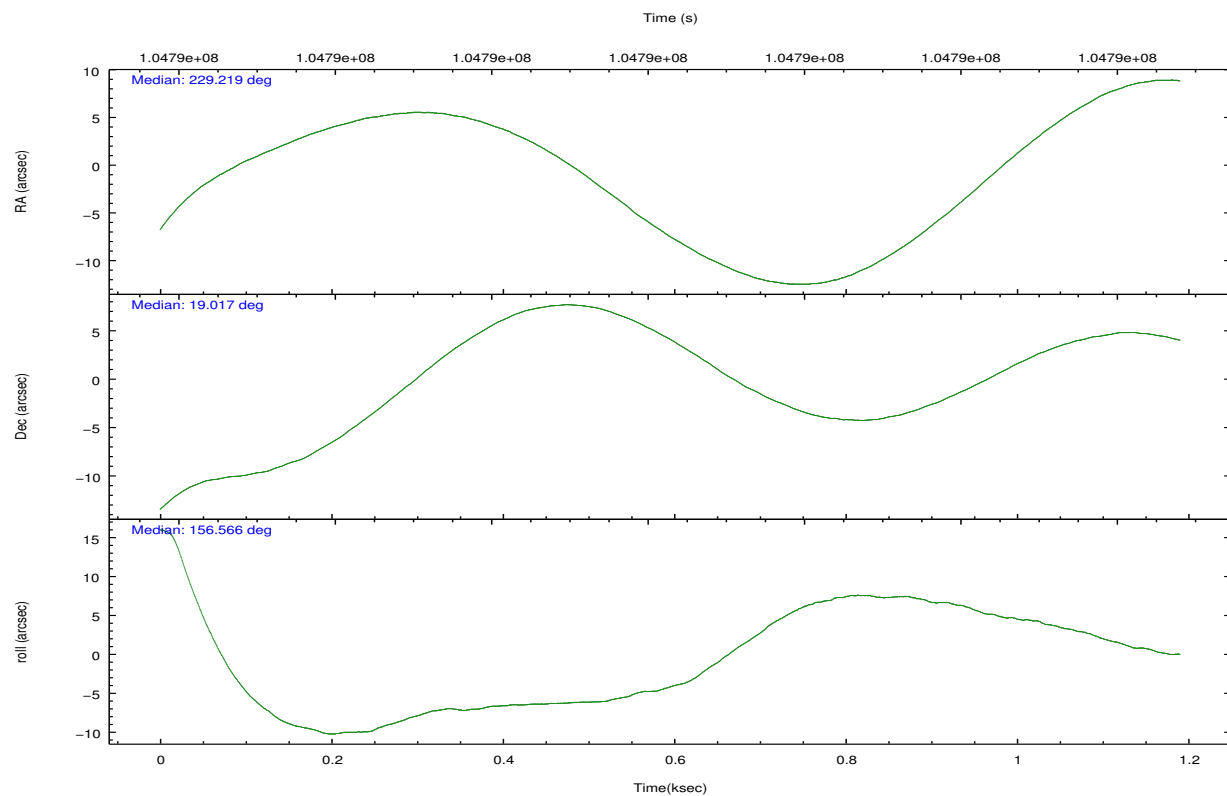
## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-3	ACIS-3
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	229.247044	229.2183468522451
[deg] Pointing Dec	19.020043	19.01660279000203
[deg] Pointing Roll	156.353063	156.5712969503848
[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)	104788422.184000	104786964.7033
Observation start date	2001-04-27T19:52:38	2001-04-27T19:29:24
[s] Observation end time (MET)	104789422.184000	104789942.32841
Observation end date	2001-04-27T20:09:18	2001-04-27T20:19:02
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	CUSTOM	1/4
Subarray start row	769	769
Subarray row count	256	256
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	0.8

## 2.3 Aspect





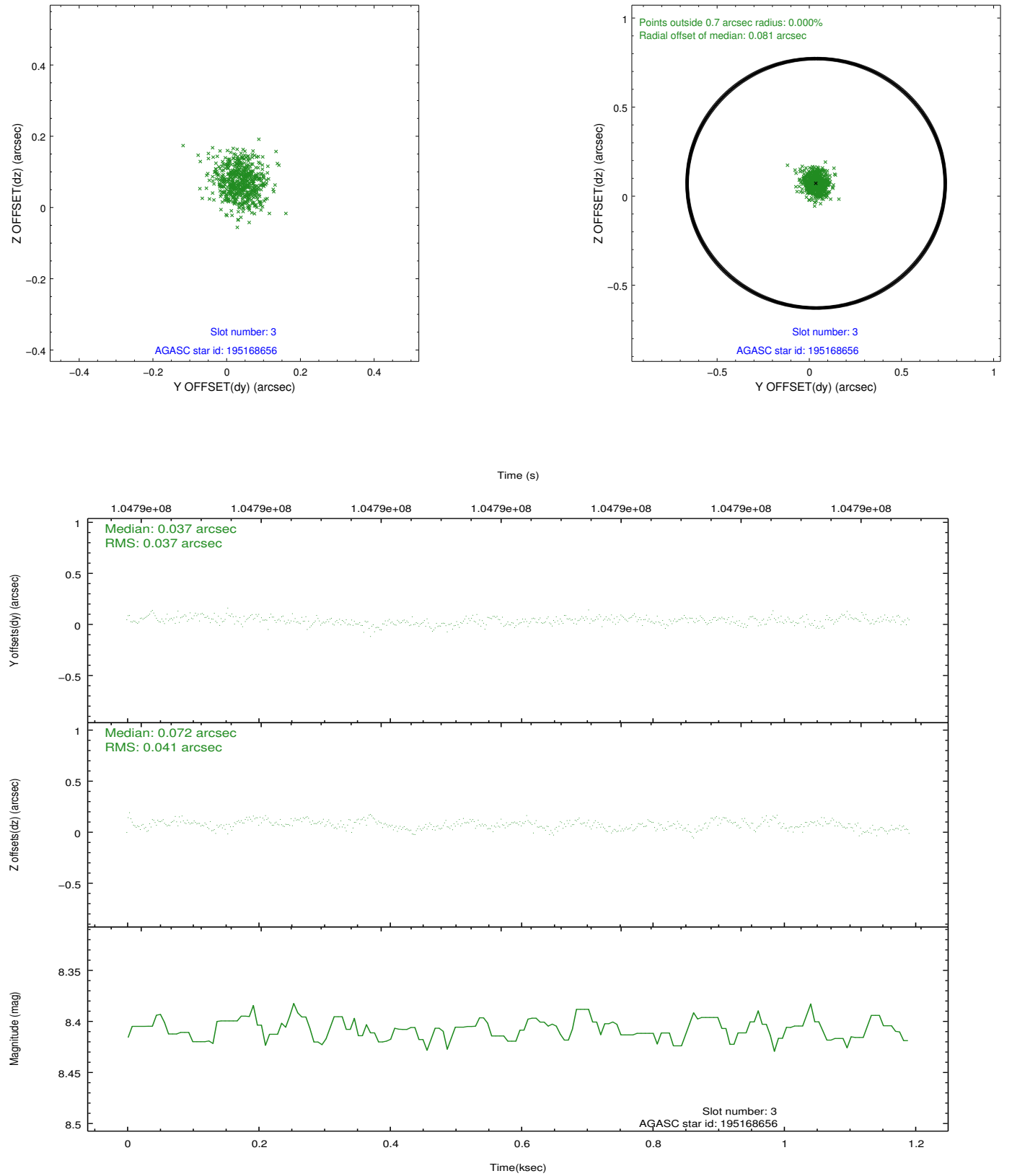
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-2	7.15	291	-0.033	-0.050	0.008	0.014	0.000000	0.000000	-756.41	-834.75
1	FID	ACIS-I-4	7.19	291	-0.011	0.041	0.004	0.008	0.000000	0.000000	2155.13	1068.74
2	FID	ACIS-I-5	7.23	291	-0.058	0.078	0.008	0.014	0.000000	0.000000	-1803.07	1072.96
3	GUIDE	195168656	8.41	582	0.037	0.072	0.059	0.095	229.108463	19.158882	633.13	-269.32
4	GUIDE	195167760	8.68	582	-0.148	0.091	0.078	0.134	229.245642	19.645231	909.01	-2060.43
5	GUIDE	195301576	8.80	582	0.022	-0.085	0.067	0.103	229.568288	18.854985	-1237.94	100.19
6	GUIDE	195168360	9.41	581	0.011	-0.006	0.090	0.145	228.705189	18.743252	1292.10	1651.00
7	GUIDE	195298984	9.96	581	0.077	-0.062	0.111	0.171	229.641033	18.827425	-1504.11	97.57

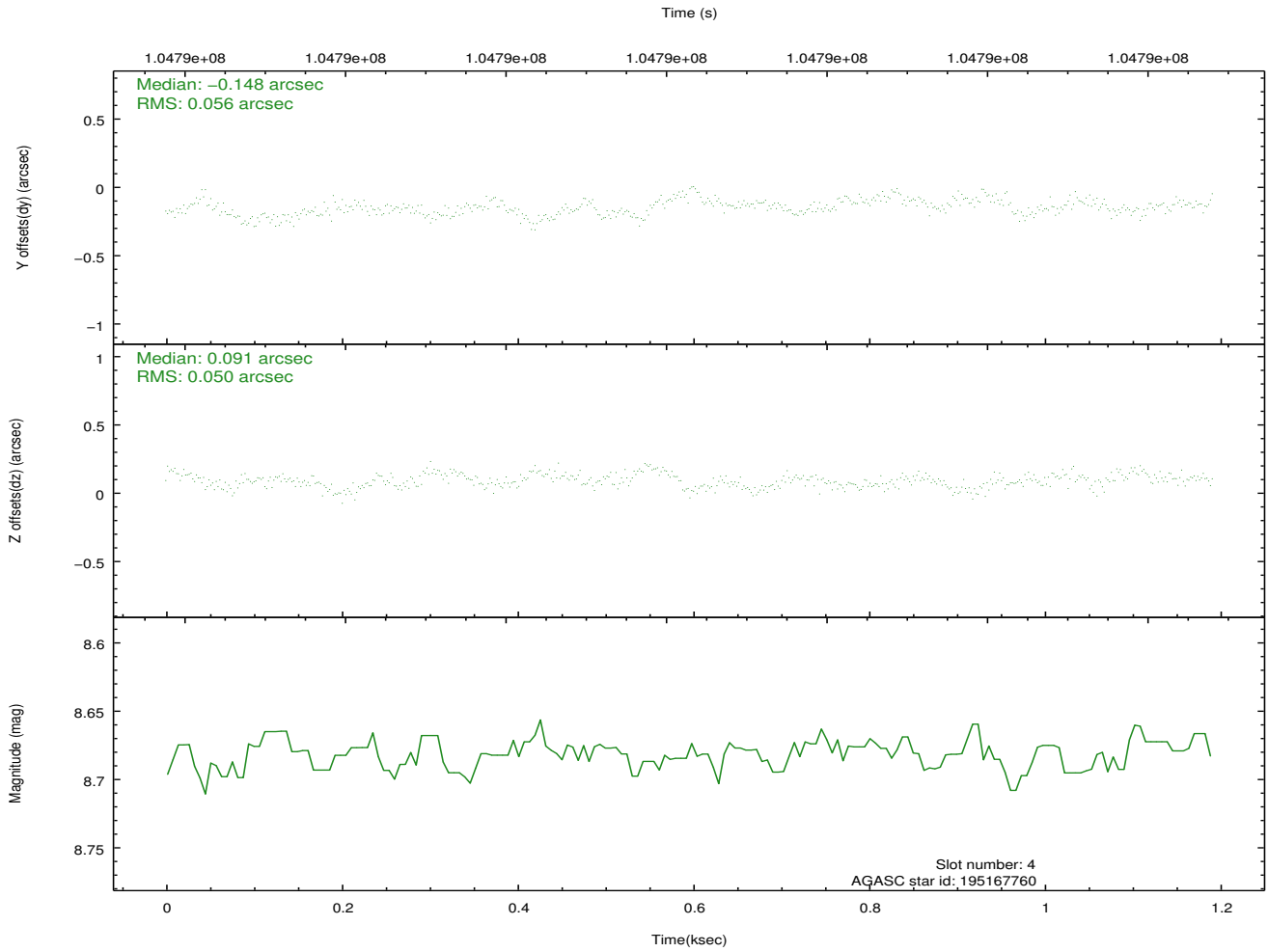
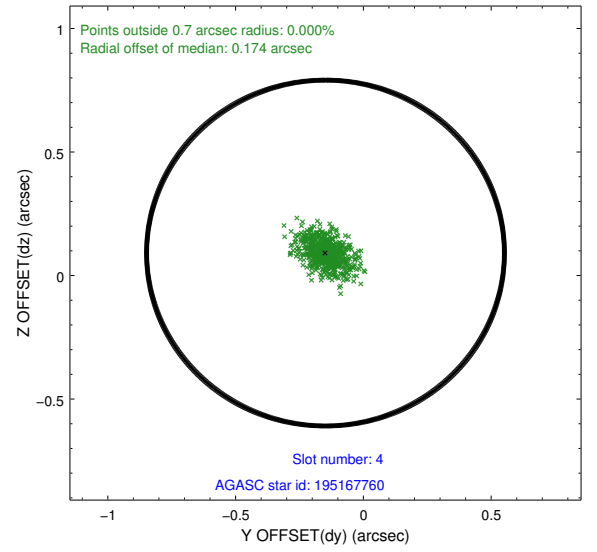
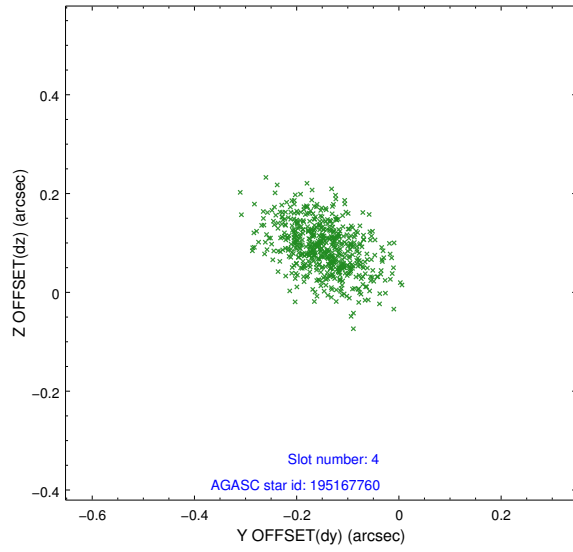


## 2.4 Star Slots

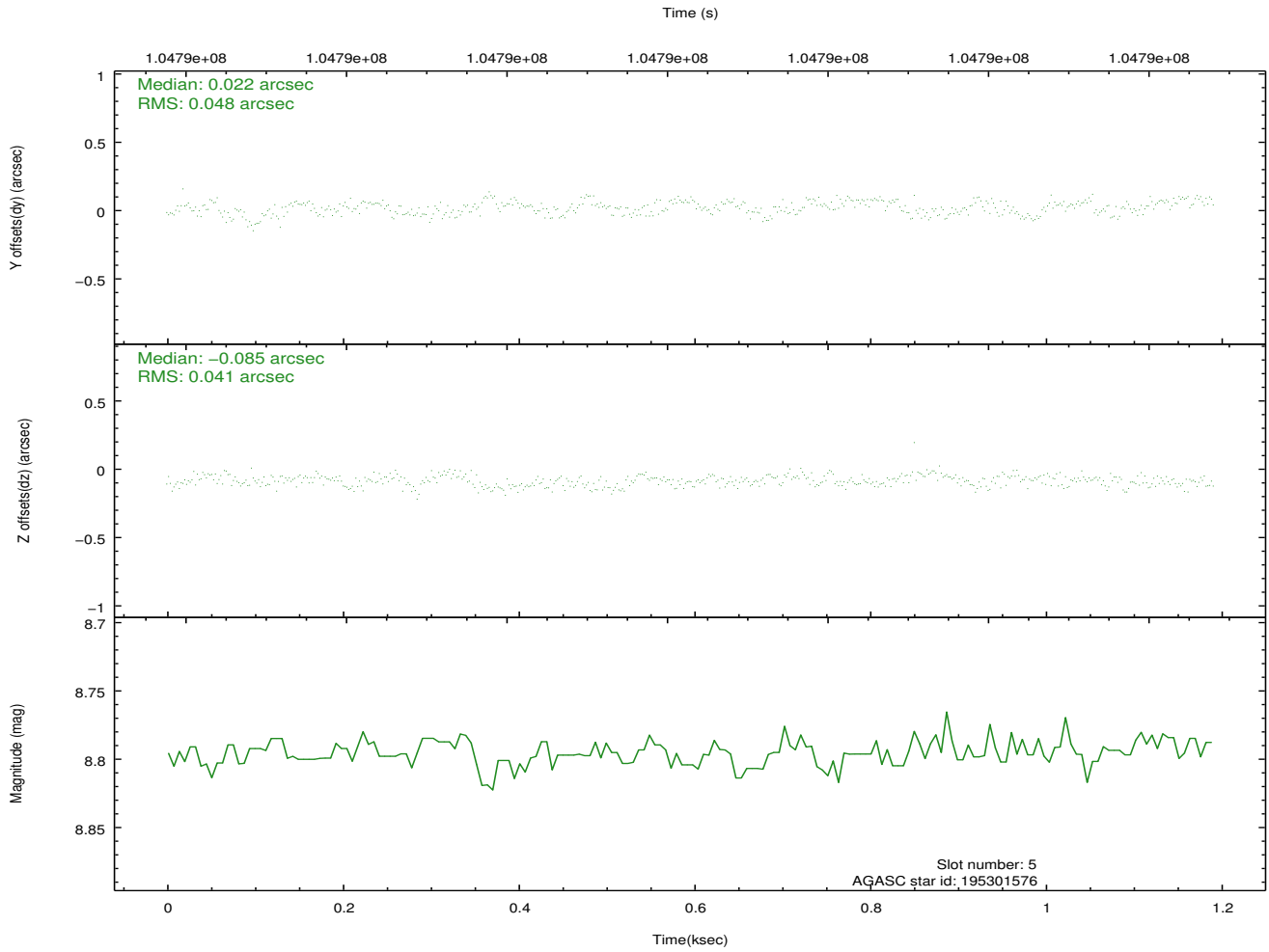
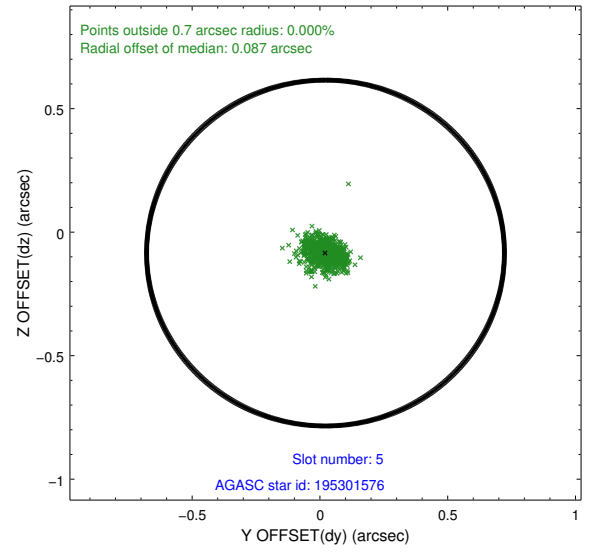
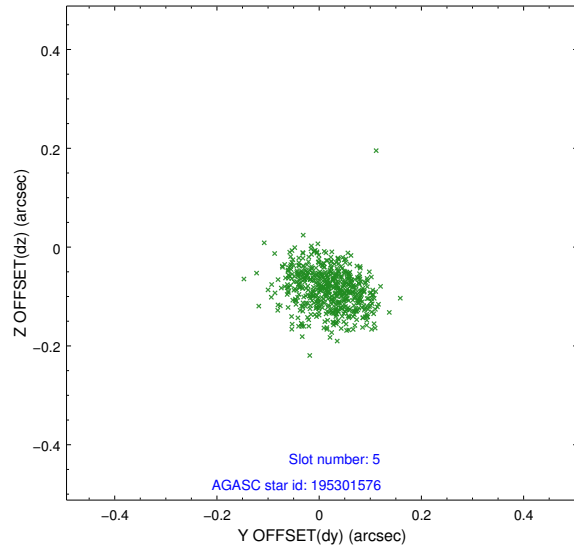
### 2.4.1 Slot 3



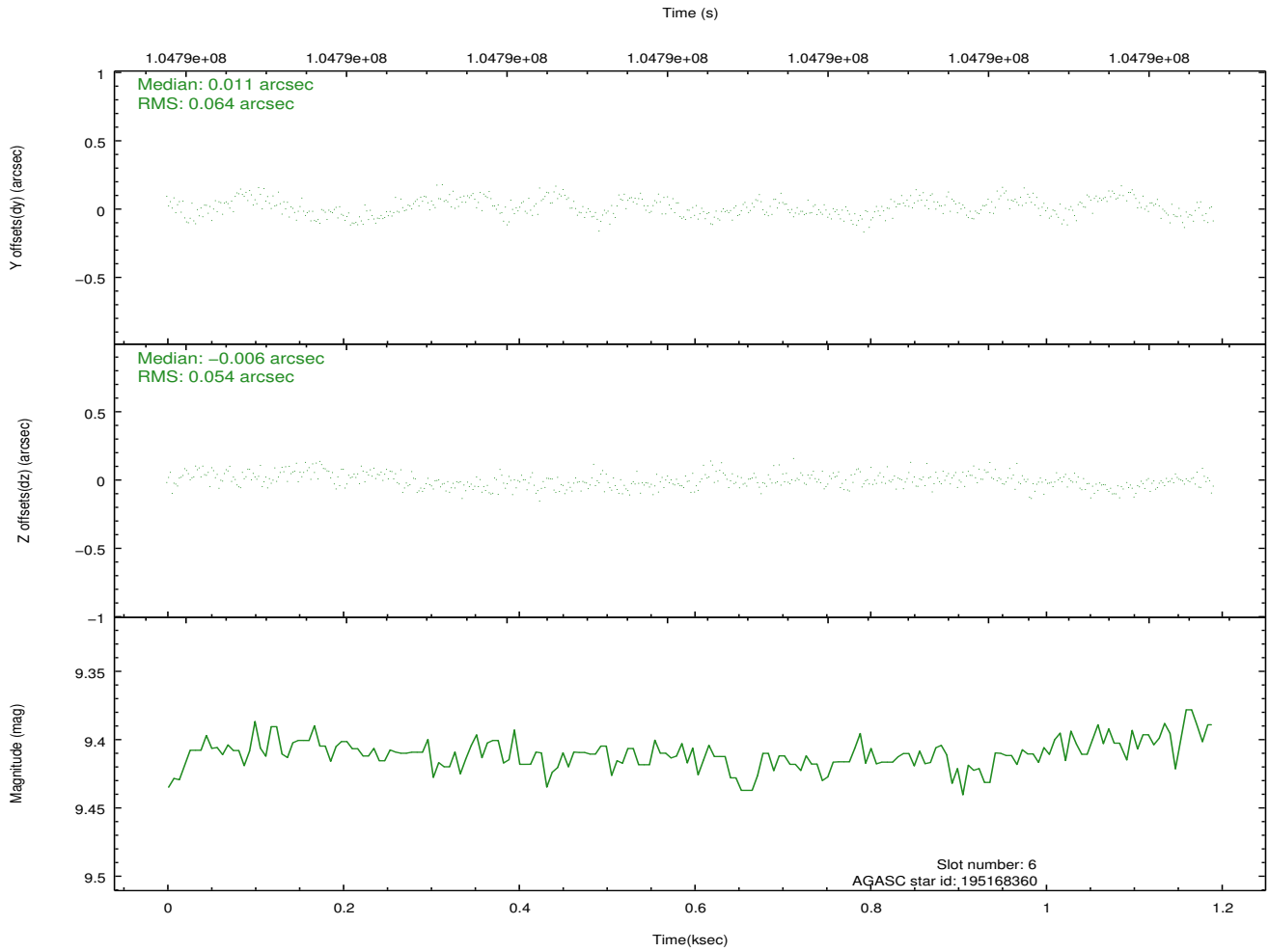
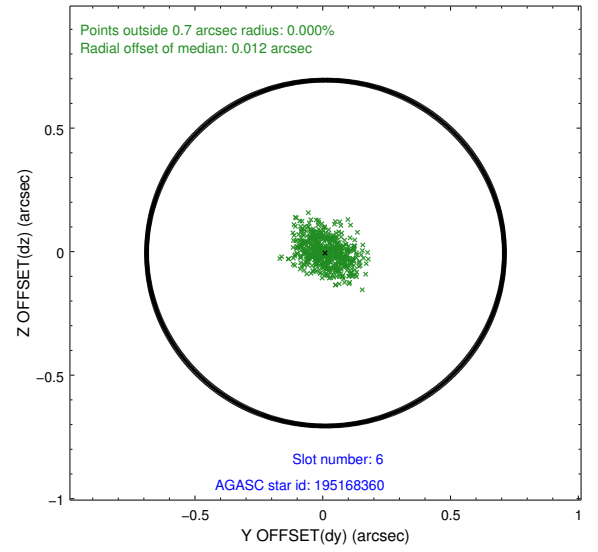
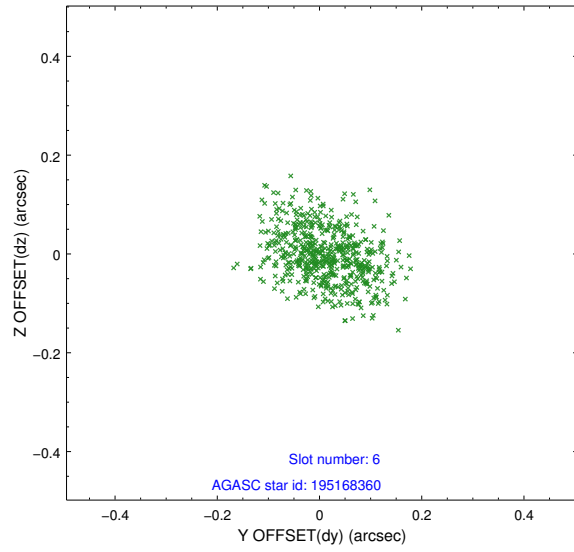
## 2.4.2 Slot 4



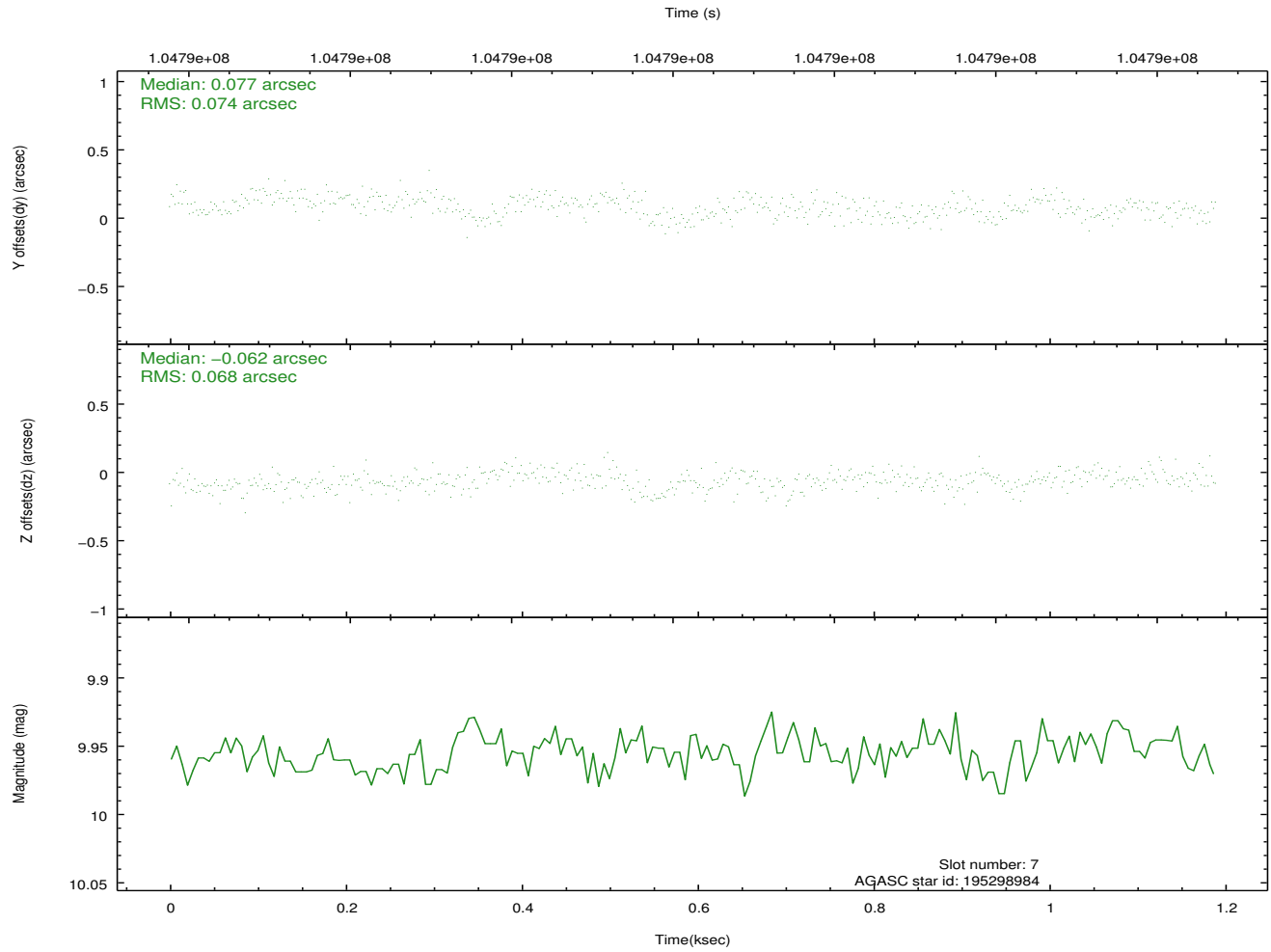
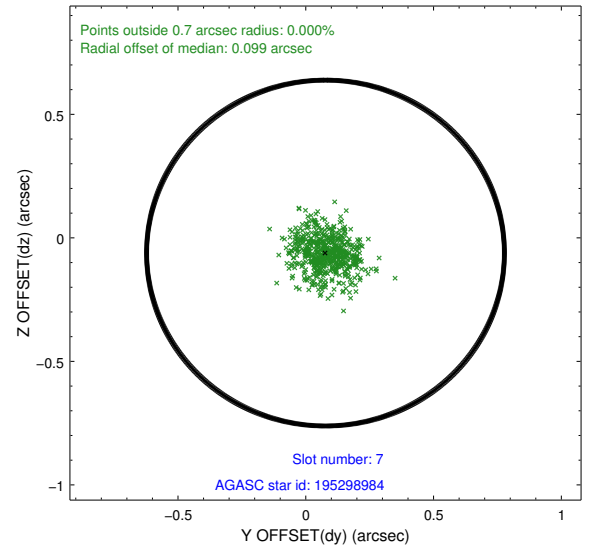
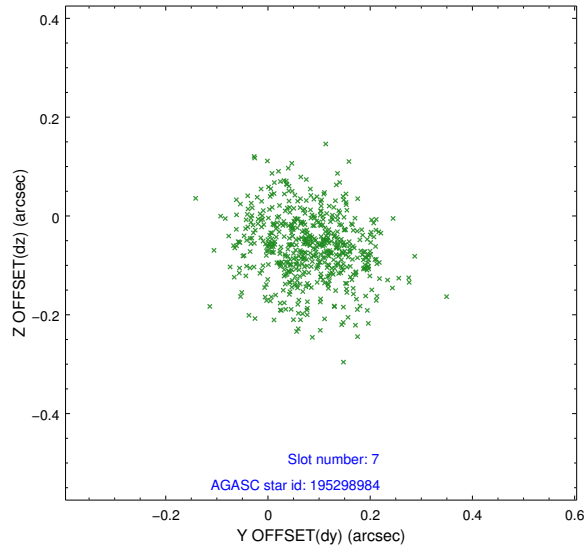
### 2.4.3 Slot 5



## 2.4.4 Slot 6

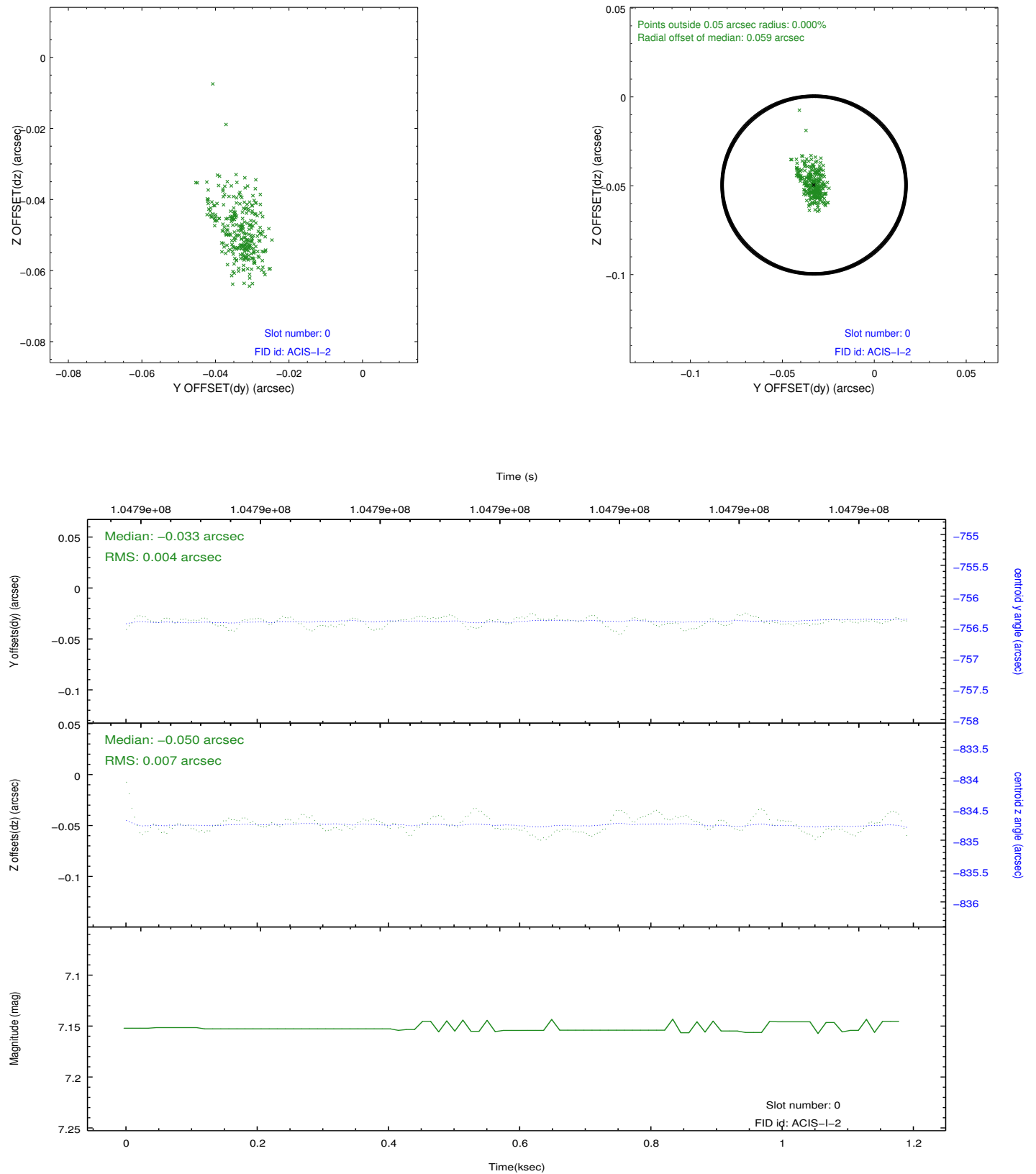


## 2.4.5 Slot 7

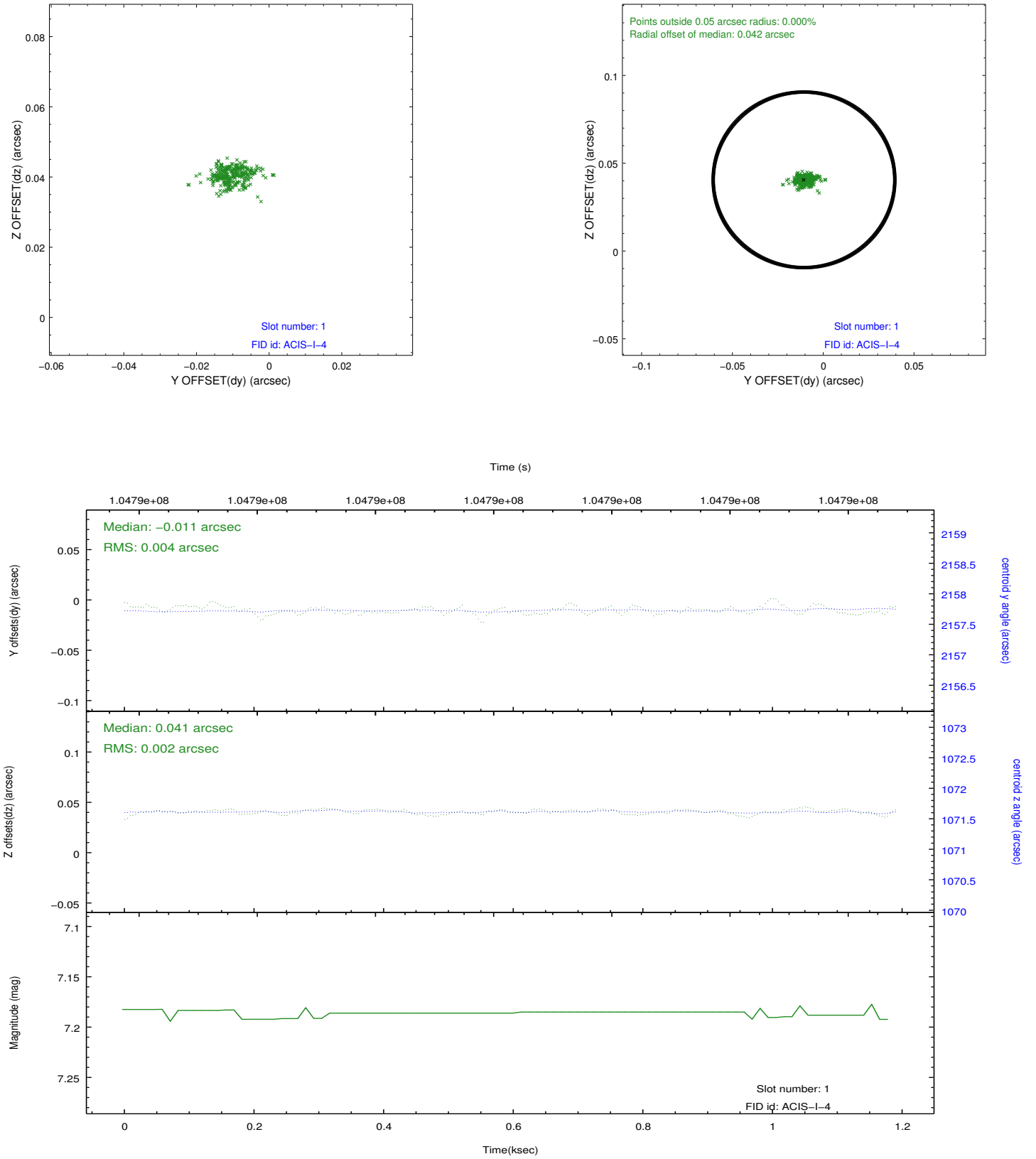


## 2.5 FID Slots

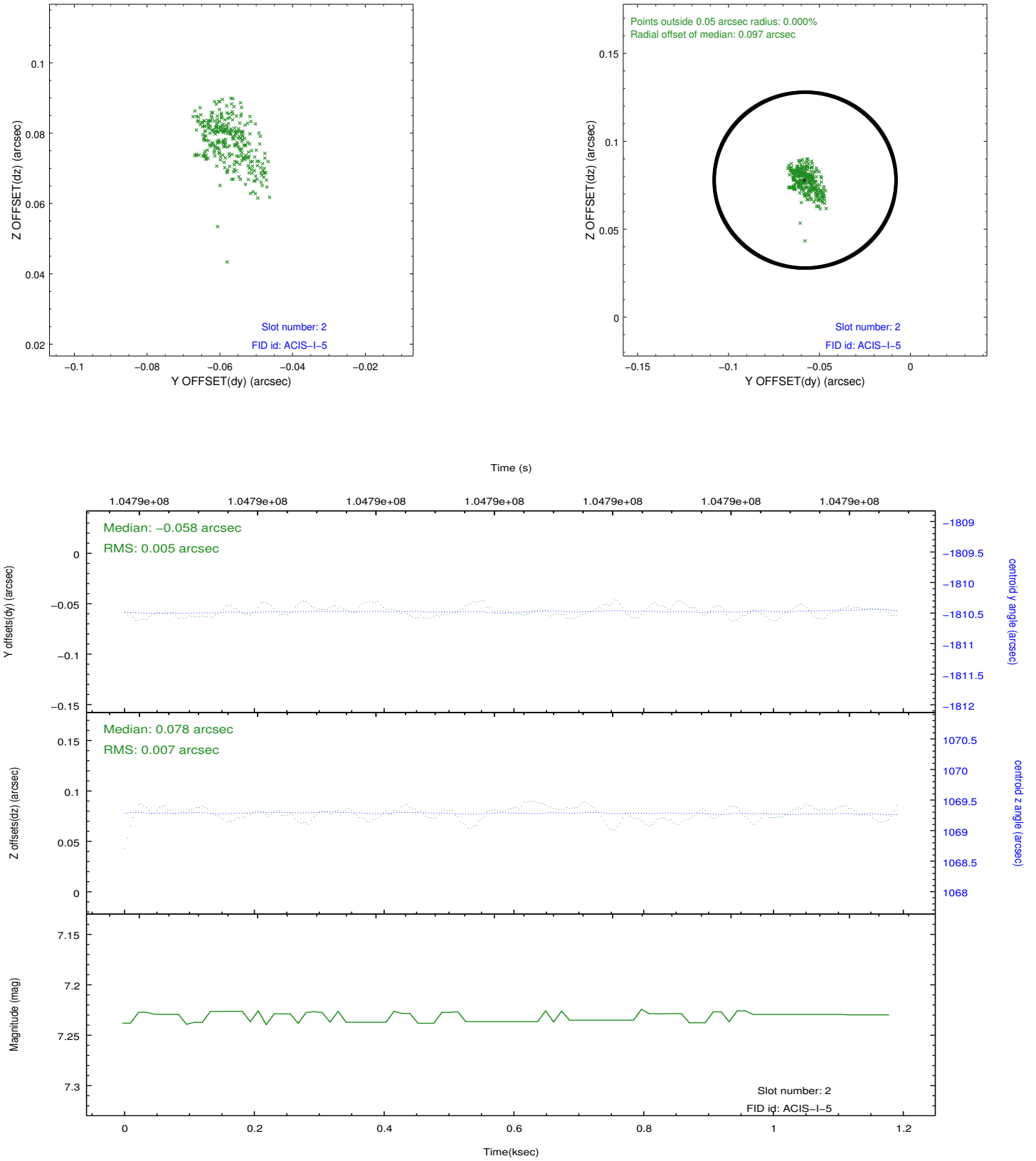
### 2.5.1 Slot 0



## 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)	2012.09.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.189

### A.2 Comments