

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 11065 - L2 Version 2  
Chandra X-Ray Center

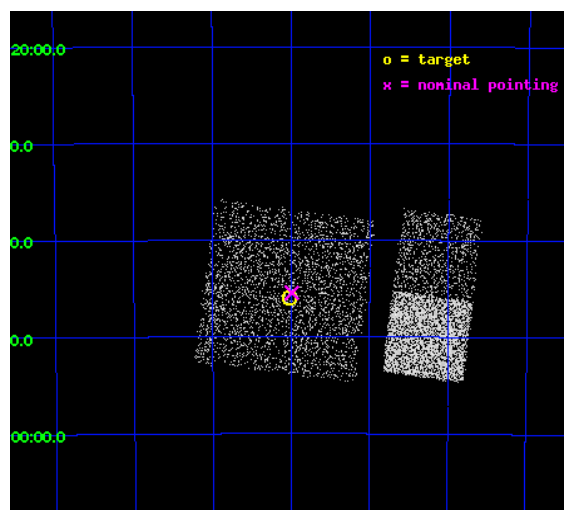
L2 Processing Date : Jun 19 2012

## 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

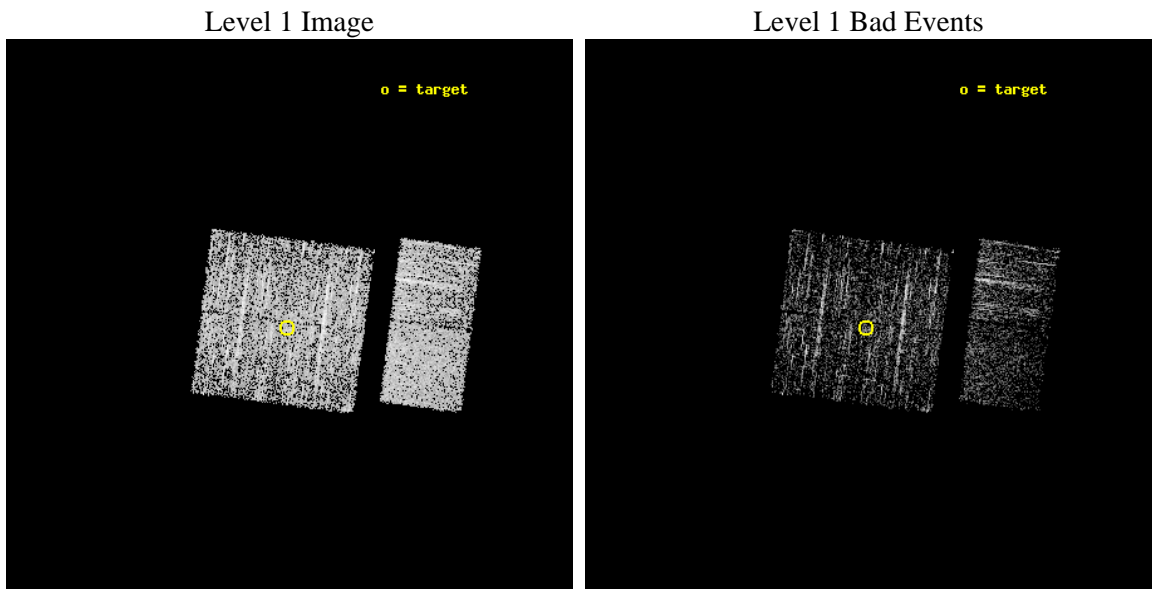
seq_num	401100	Sequence number
obs_id	11065	Observation id
title	Precise Positions of Historically Bright X-ray Binaries	Proposal t
observer	Dr. Alan Levine	Principal investigator
object	XTE J1543-568	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	236.004167	Observer's specified target RA [deg]
dec_targ	-56.765	Observer's specified target Dec [deg]
ra_nom	235.99777009154	Nominal RA [deg]
dec_nom	-56.75753078655	Nominal Dec [deg]
roll_nom	97.319667477906	Nominal Roll [deg]
revision	2	Processing version of data
ontime	1174.3999956846	Sum of GTIs [s]
livetime	1159.5290358005	Livetime [s]
ontime0	1174.3999956846	Sum of GTIs [s]
ontime1	1174.3999956846	Sum of GTIs [s]
ontime2	1174.3999956846	Sum of GTIs [s]
ontime3	1174.3999956846	Sum of GTIs [s]
ontime6	1174.3999956846	Sum of GTIs [s]
ontime7	1174.3999956846	Sum of GTIs [s]
l2events	9272	Number of level 2 events



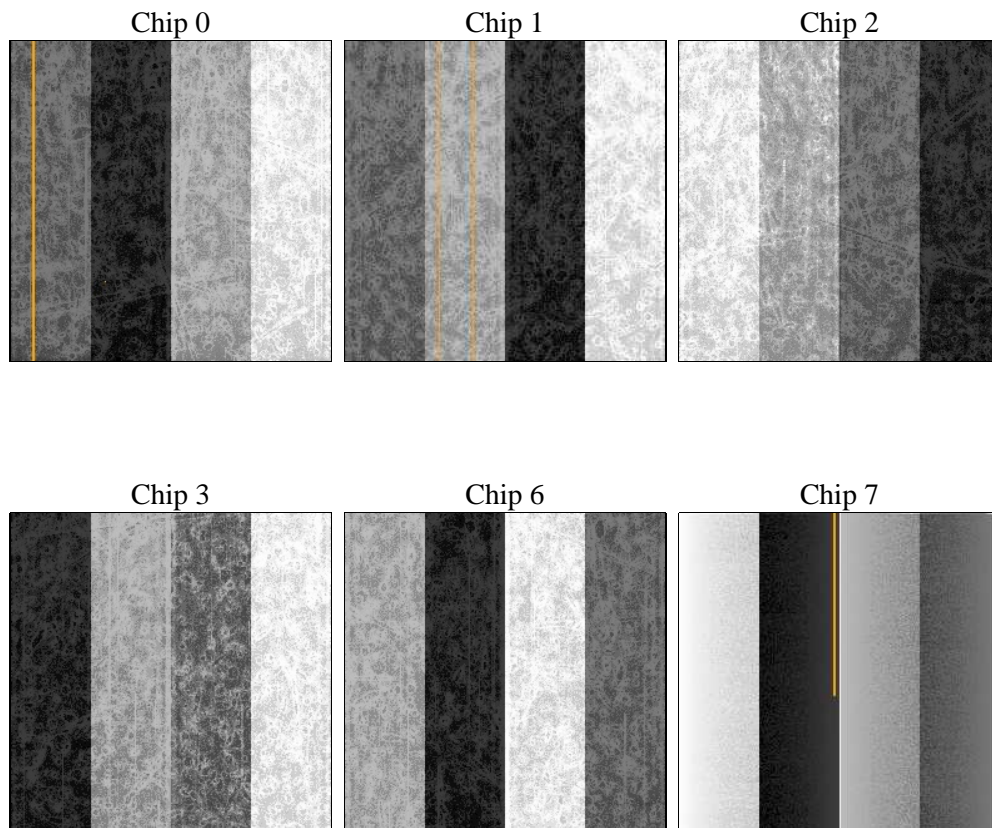
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	1000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	1174.3999956846	Sum of GTIs [s]
caldsver	4.4.10	&#160	ontime0	1174.3999956846	Sum of GTIs [s]
date	2012-06-19T22:33:35	Date and time of file creation	ontime1	1174.3999956846	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	1174.3999956846	Sum of GTIs [s]
			ontime3	1174.3999956846	Sum of GTIs [s]
			ontime6	1174.3999956846	Sum of GTIs [s]
			ontime7	1174.3999956846	Sum of GTIs [s]
			l1events	61212	Number of level 1 events

### 2.1.4 Events

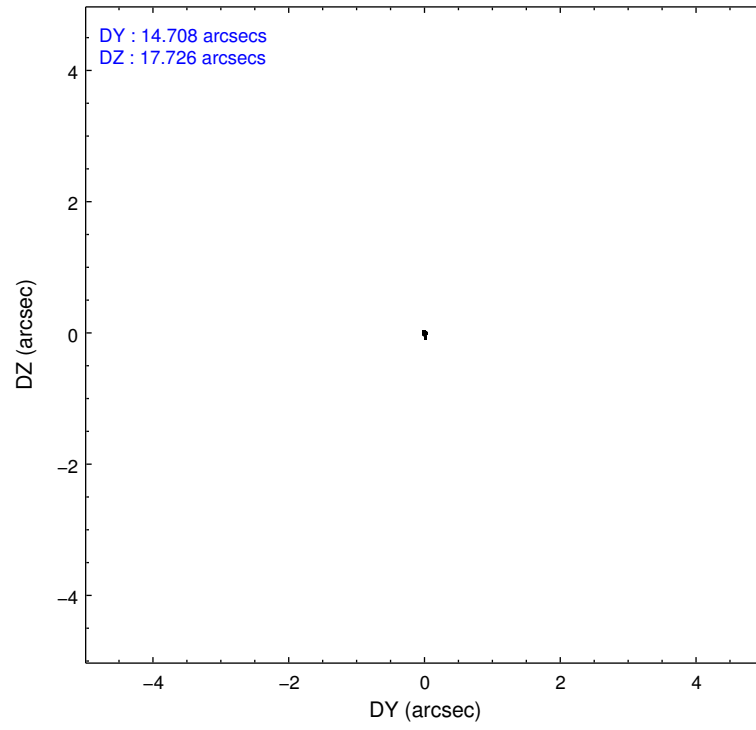
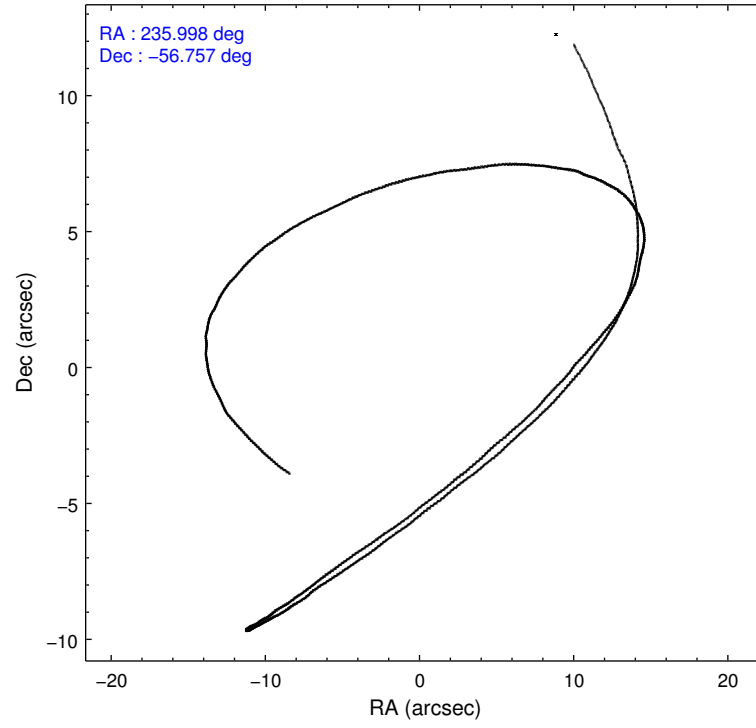
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	9647	9122	10585	9678	10965	11215
rejected events	8590	8001	9483	8704	9860	6271
rejected %	89%	87%	89%	89%	89%	55%

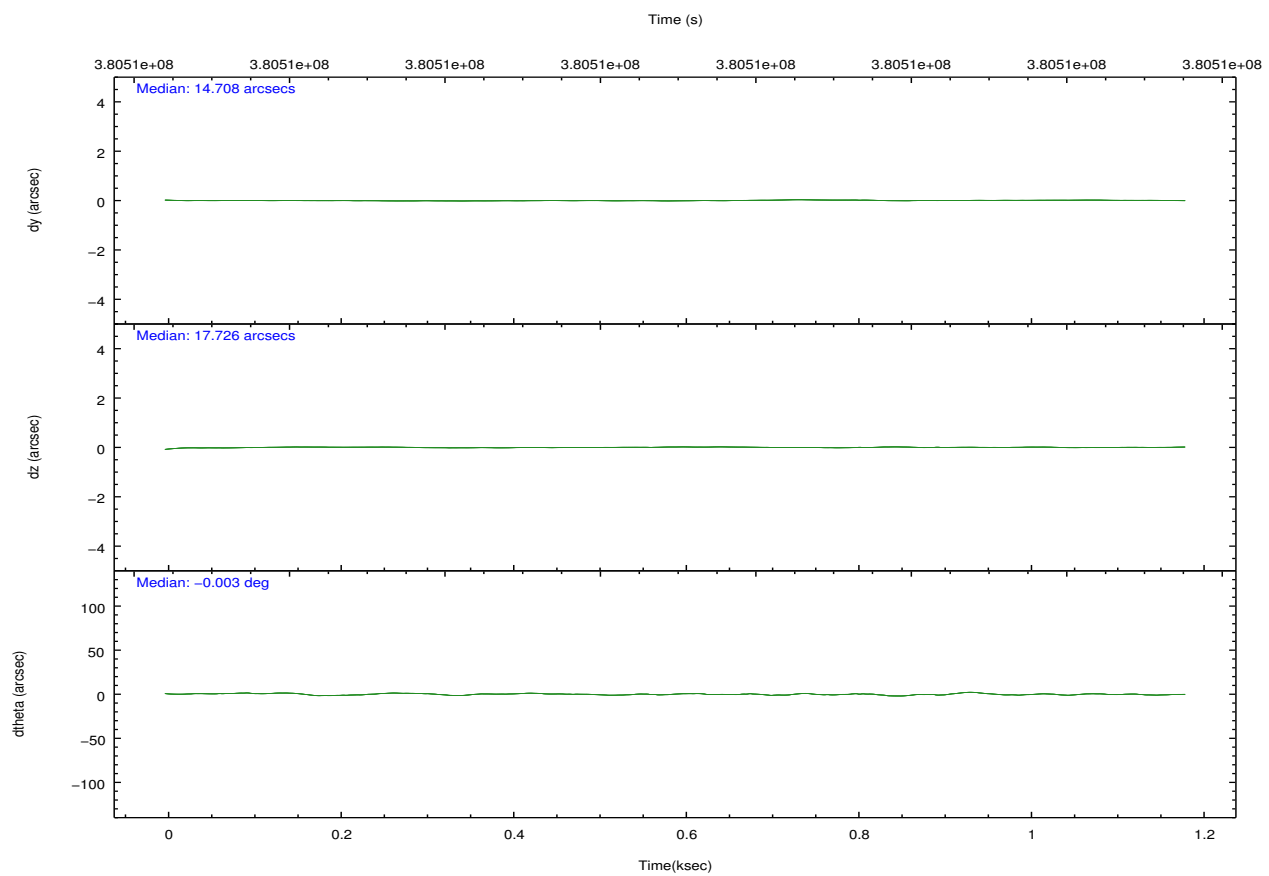
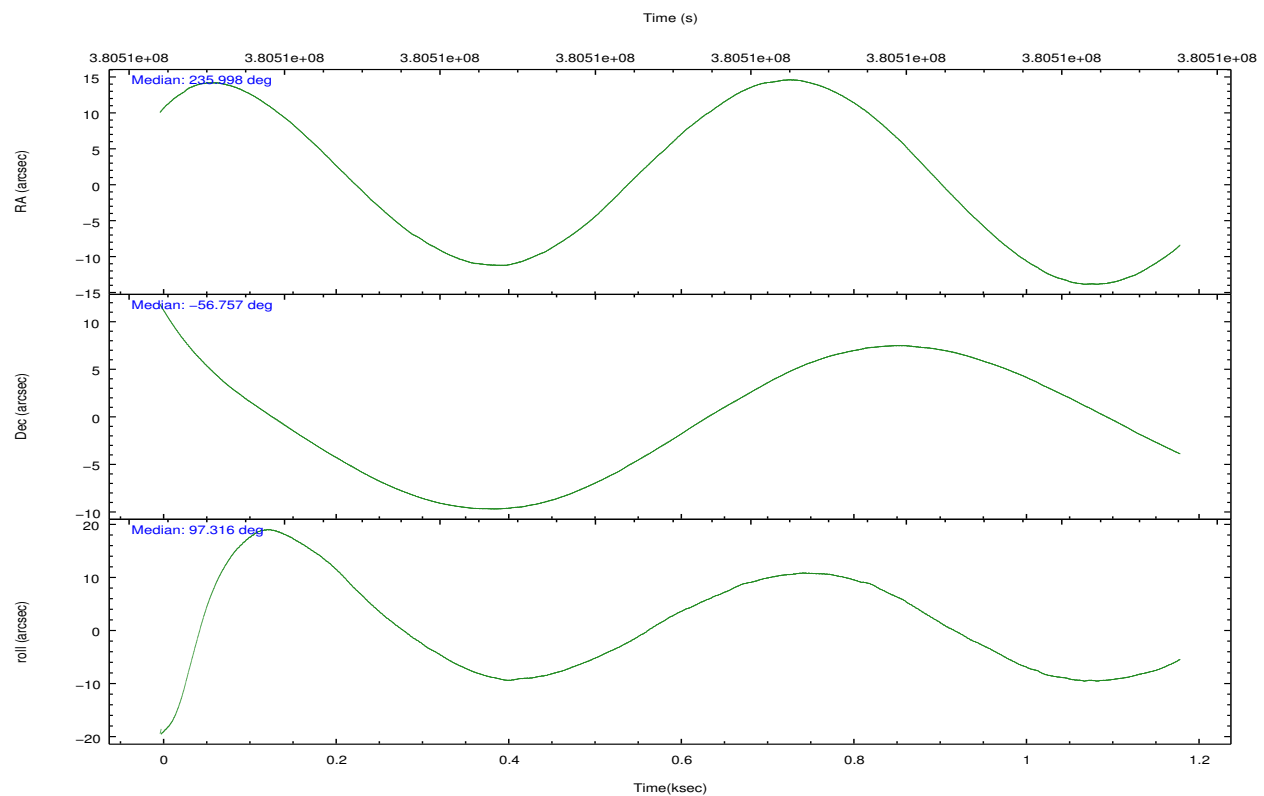
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	388	392	456	336	394	448
	4%	4%	4%	3%	3%	3%
grade 1 events	3	5	5	6	5	17
	0%	0%	0%	0%	0%	0%
grade 2 events	263	262	257	221	275	1021
	2%	2%	2%	2%	2%	9%
grade 3 events	113	118	86	120	115	493
	1%	1%	0%	1%	1%	4%
grade 4 events	109	92	105	97	118	420
	1%	1%	0%	1%	1%	3%
grade 5 events	406	388	342	466	466	1167
	4%	4%	3%	4%	4%	10%
grade 6 events	200	279	215	219	225	2656
	2%	3%	2%	2%	2%	23%
grade 7 events	8165	7586	9119	8213	9367	4993
	84%	83%	86%	84%	85%	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	FAINT	FAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	236.028623	235.9977700915378	CCD I2 on	Y	Y
[deg] Pointing Dec	-56.779452	-56.75753078654983	CCD I3 on	Y	Y
[deg] Pointing Roll	97.137174	97.31966747790628	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	O2	Y
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O1	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	380512883.184000	380511803.77879	CCD S5 on	N	N
Observation start date	2010-01-22T02:00:17	2010-01-22T01:43:23	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	380513883.184000	380514790.11644	On-chip summing requested	N	N
Observation end date	2010-01-22T02:16:57	2010-01-22T02:33:10	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

## 2.3 Aspect





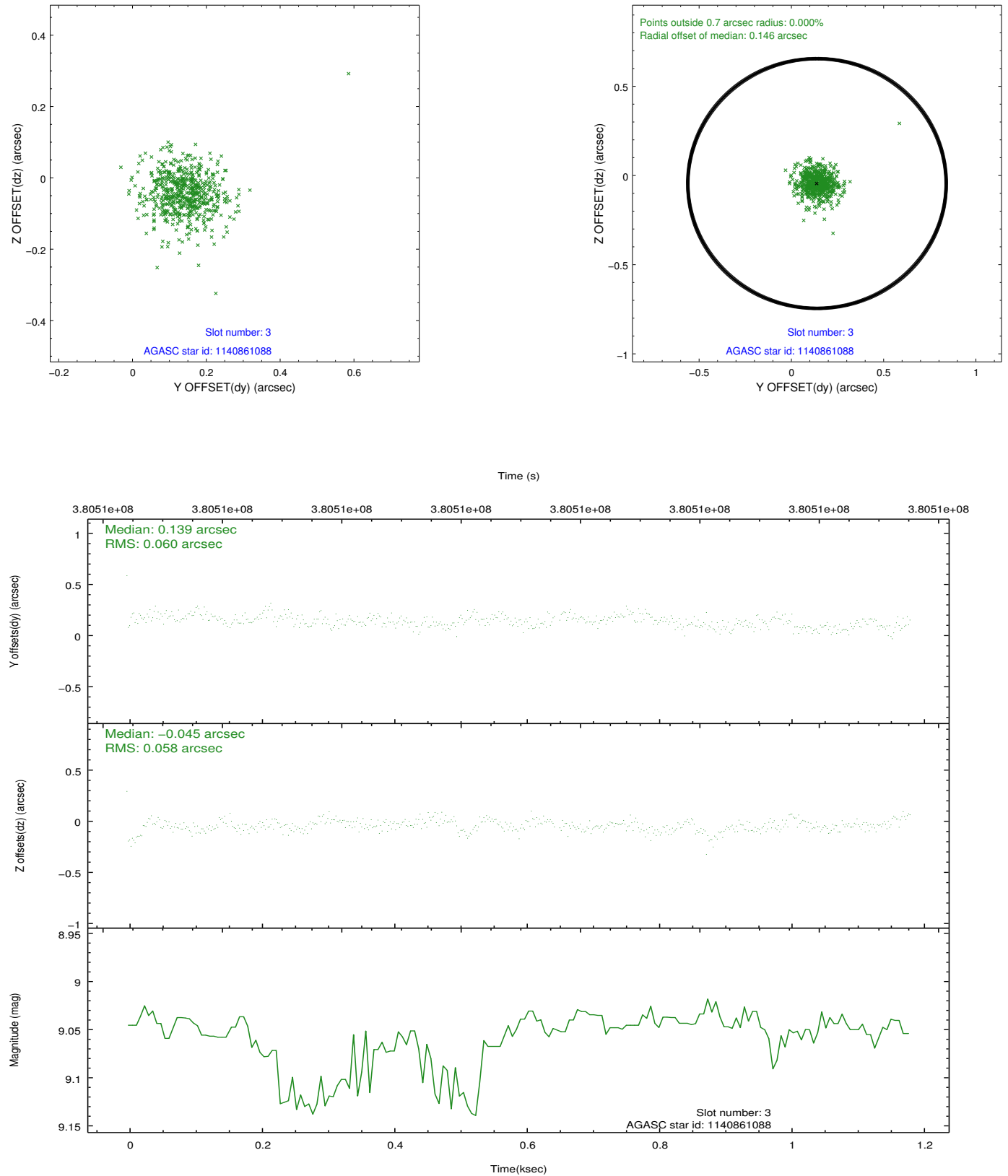
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-2	6.91	289	-0.093	-0.084	0.008	0.016	0.000000	0.000000	-769.49	-847.86
1	FID	ACIS-I-4	6.93	289	0.161	0.079	0.005	0.009	0.000000	0.000000	2142.19	1055.67
2	FID	ACIS-I-5	6.99	289	-0.169	0.074	0.009	0.016	0.000000	0.000000	-1816.22	1059.86
3	GUIDE	1140861088	9.05	574	0.139	-0.045	0.084	0.148	236.443591	-56.463656	1023.01	-960.17
4	GUIDE	1140861136	7.47	578	-0.146	-0.191	0.052	0.084	235.565647	-56.540017	967.71	803.05
5	GUIDE	1140867360	7.87	578	0.089	0.215	0.059	0.100	236.267708	-56.908841	-519.85	-407.02
6	GUIDE	1140867520	9.37	578	-0.024	-0.004	0.104	0.164	235.705038	-56.588603	758.72	550.36
7	GUIDE	1140329672	7.51	577	-0.045	0.026	0.063	0.094	236.067566	-56.165404	2184.63	-351.16

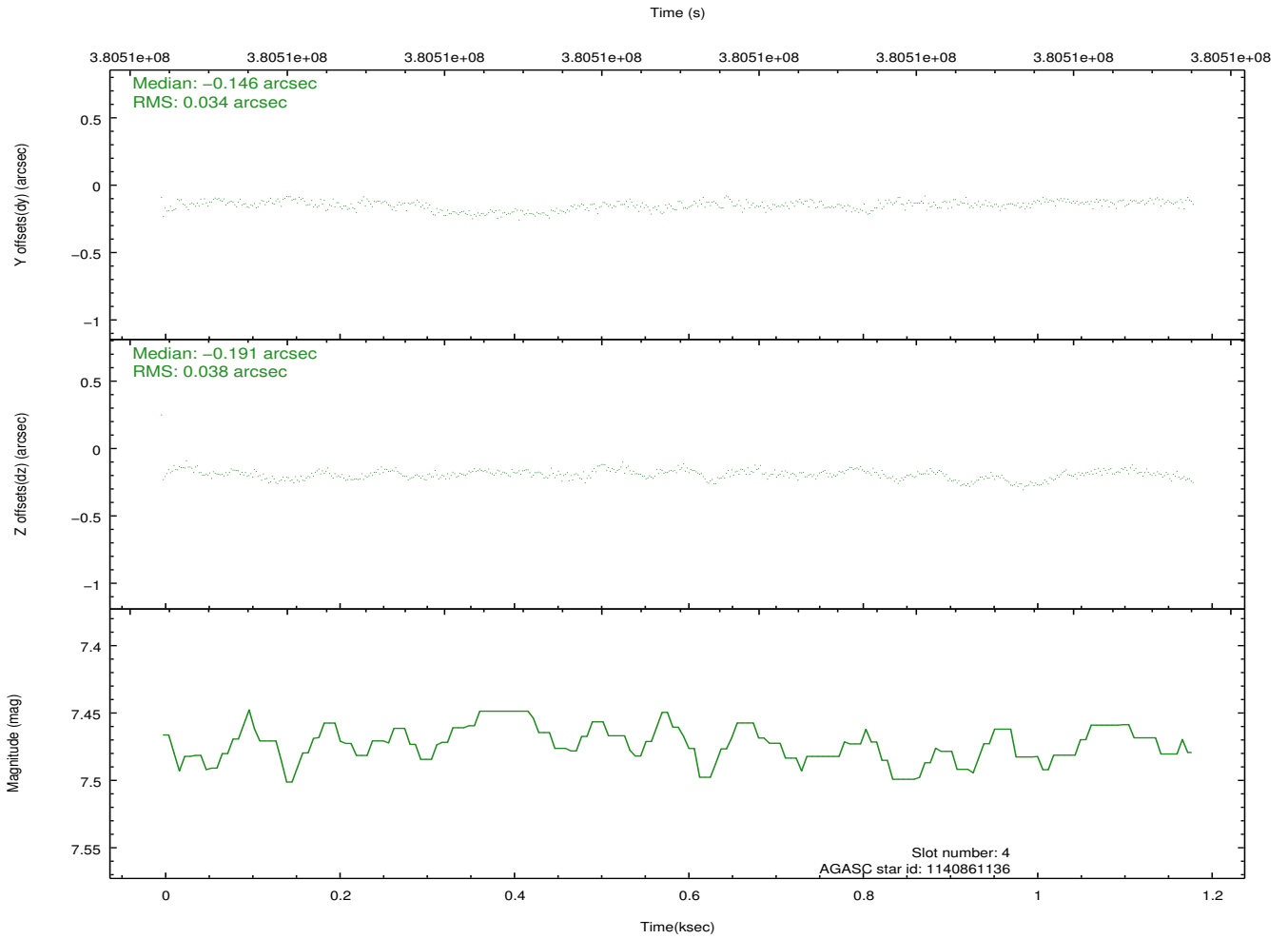
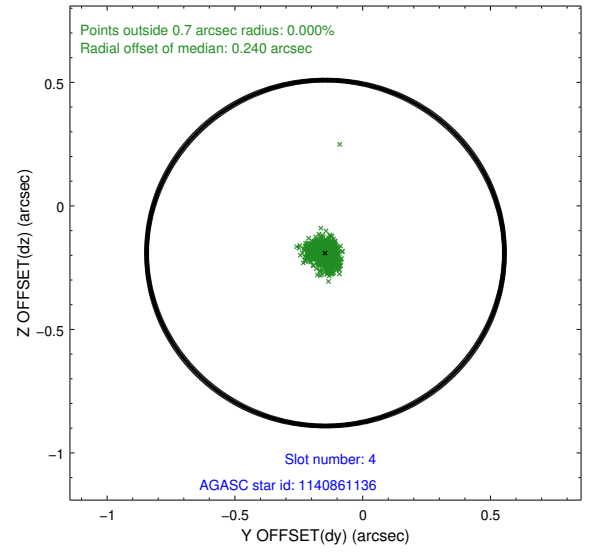
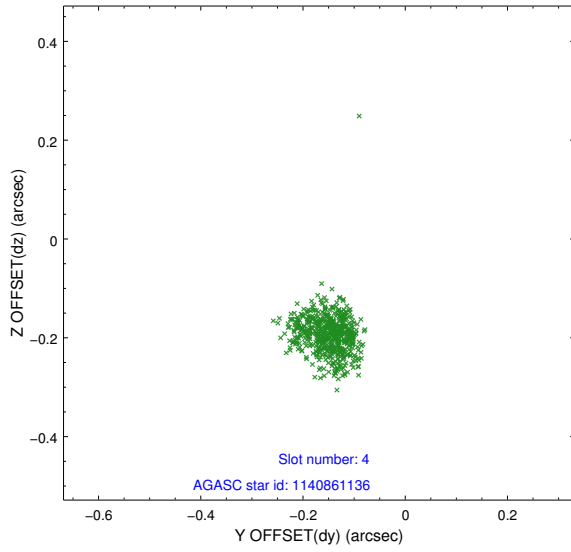


## 2.4 Star Slots

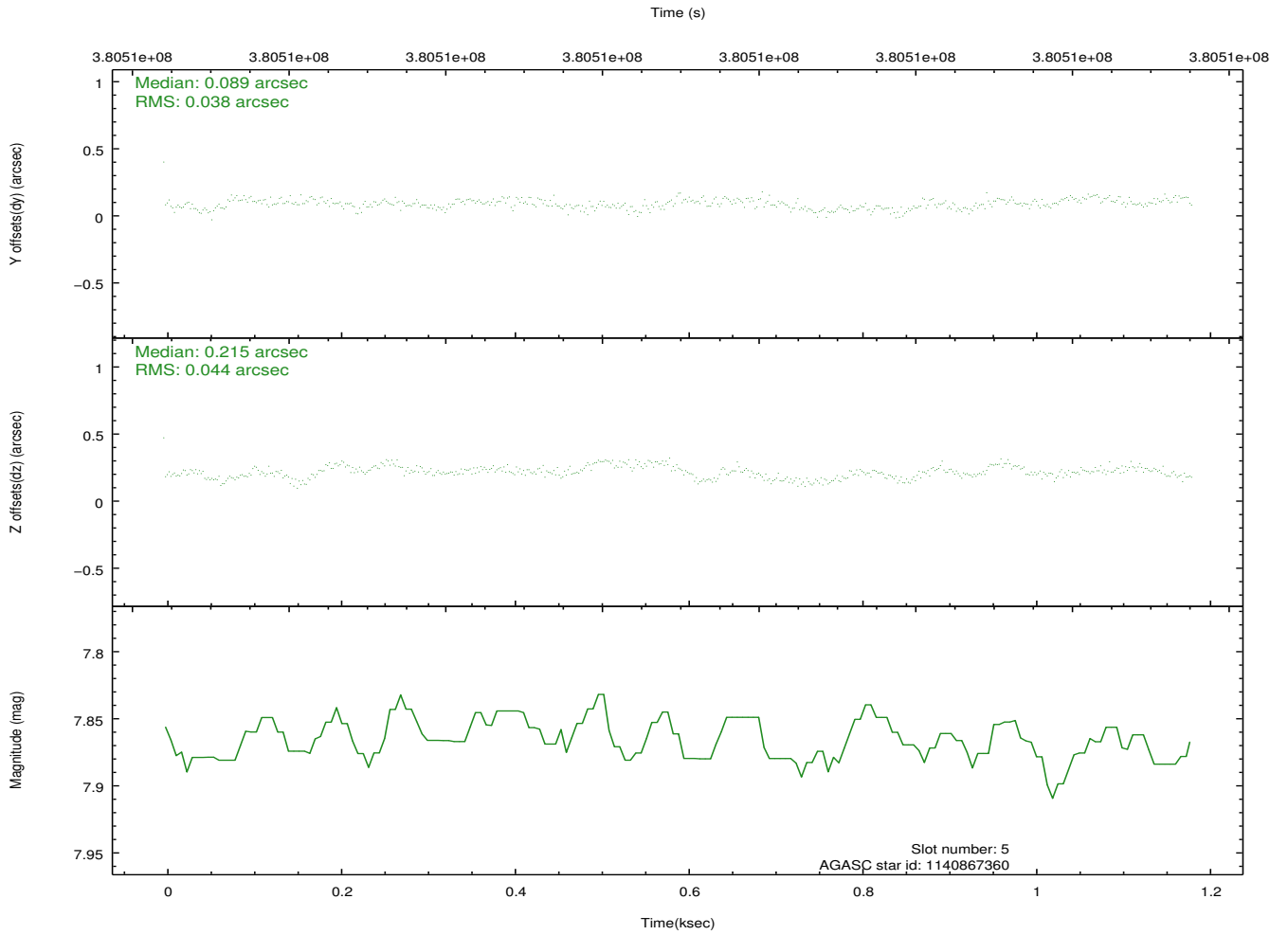
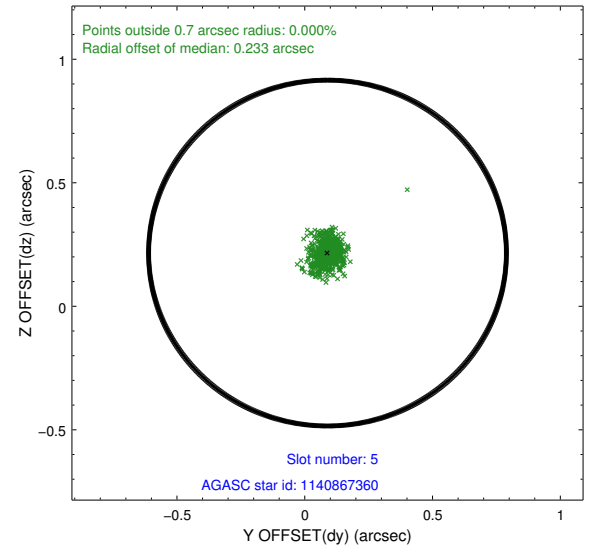
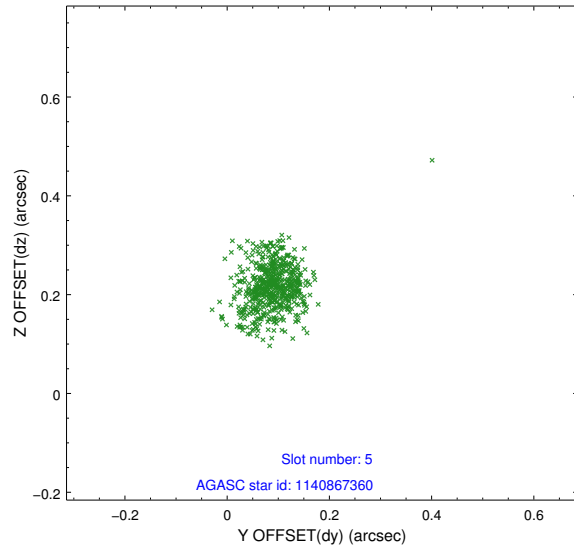
### 2.4.1 Slot 3



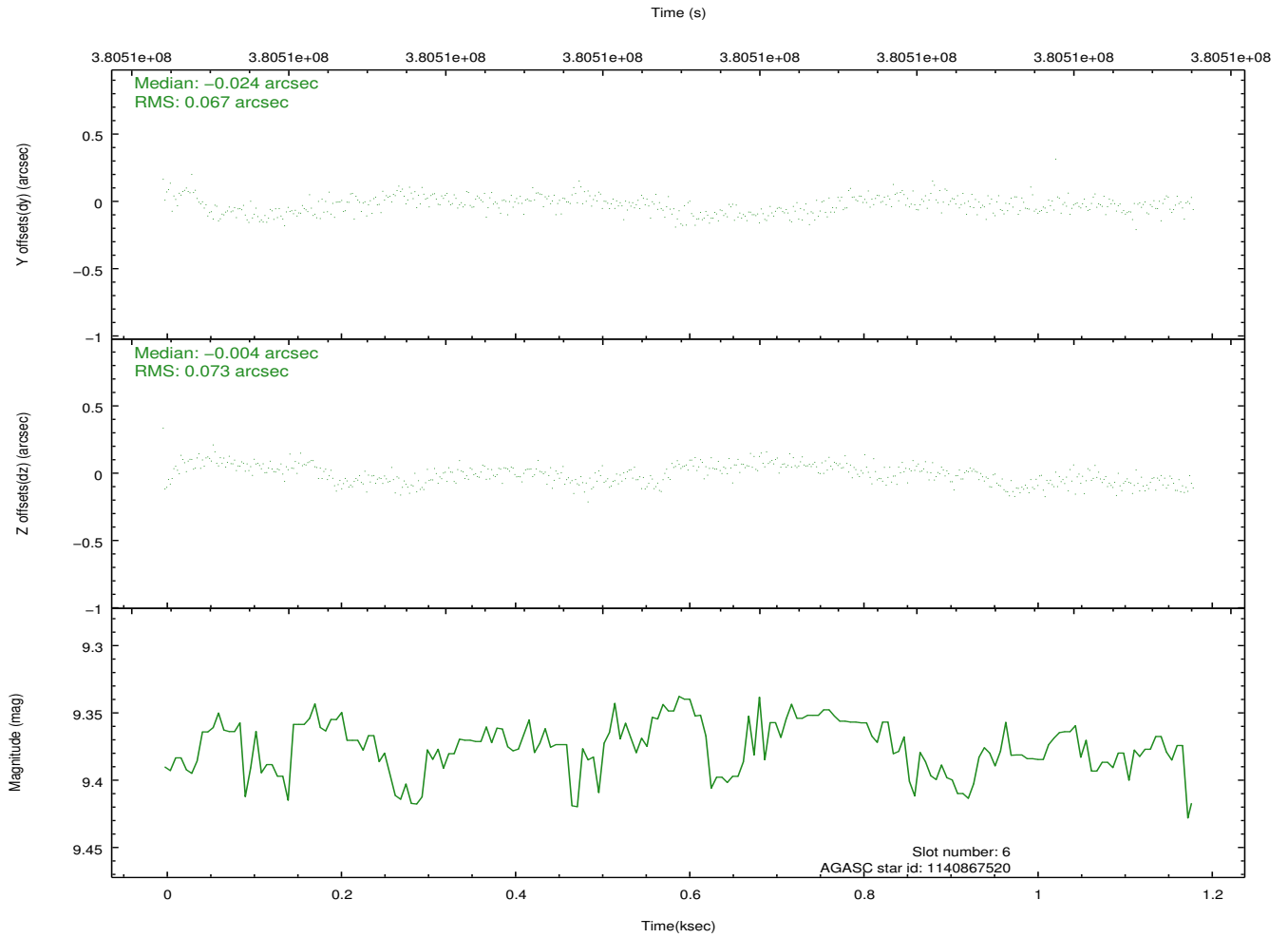
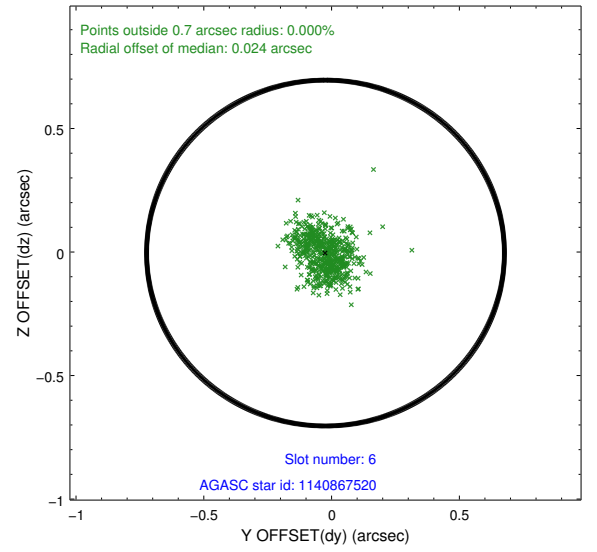
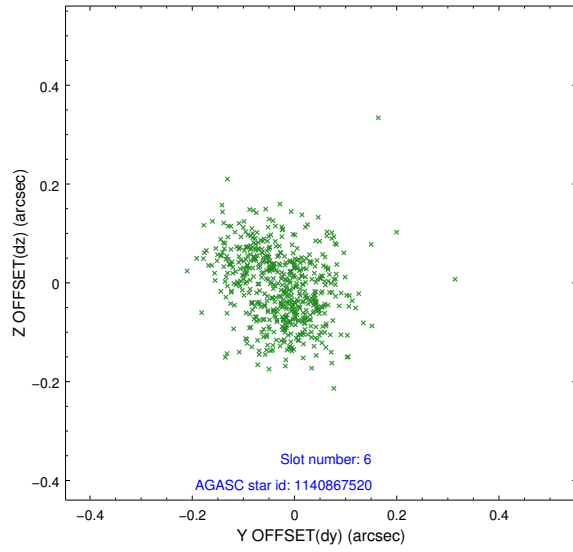
## 2.4.2 Slot 4



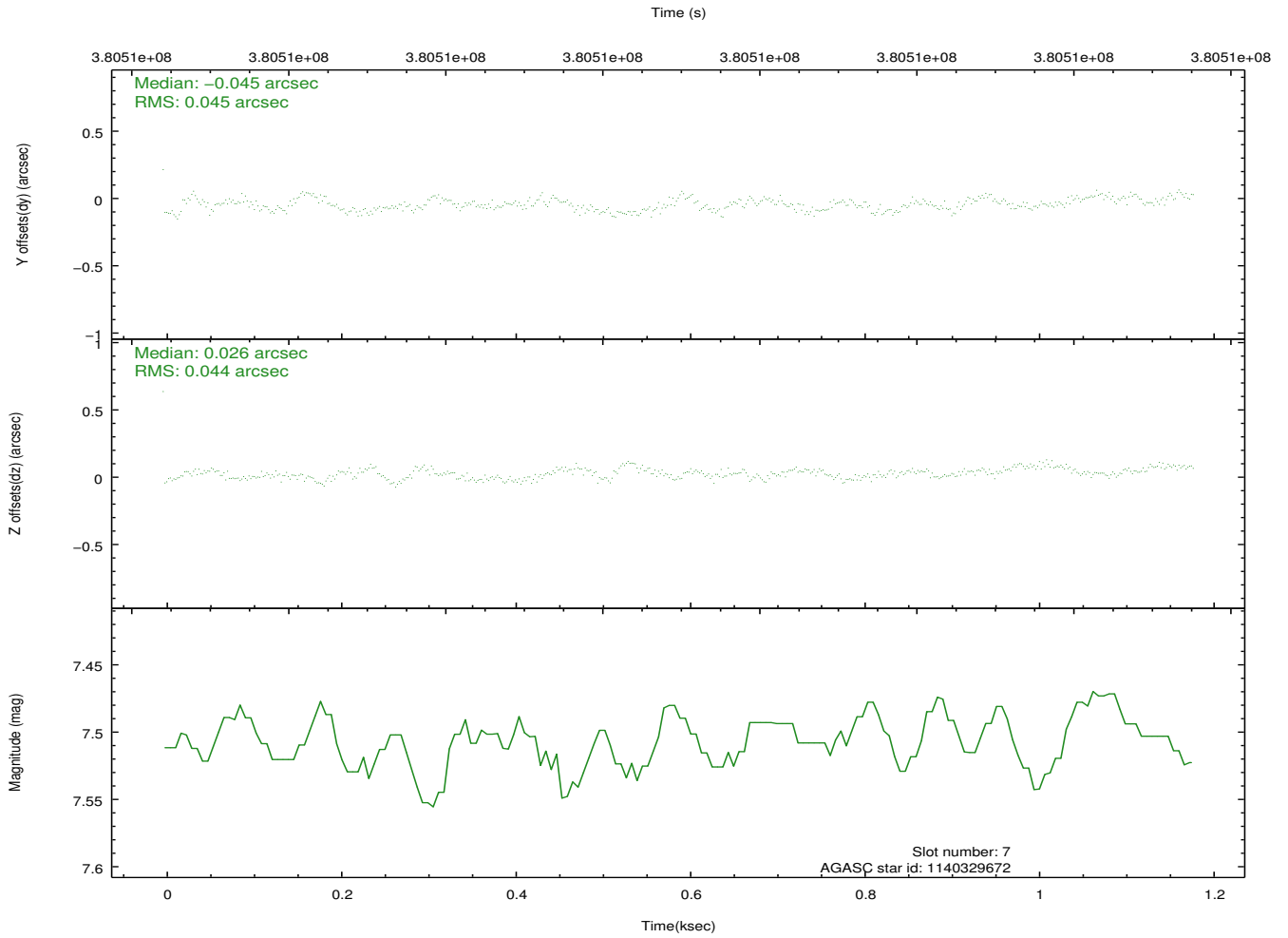
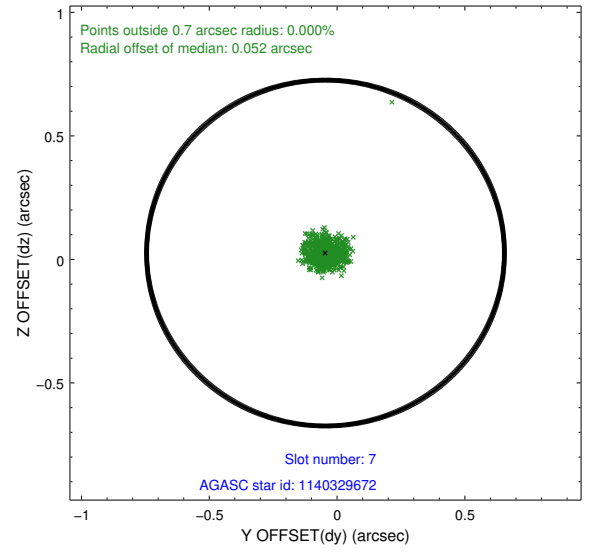
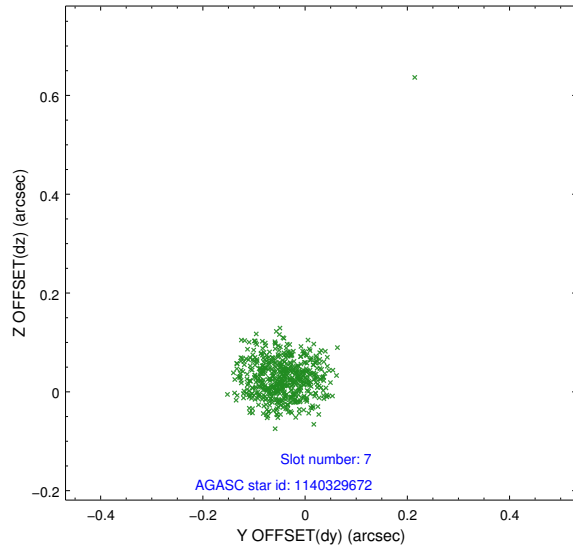
### 2.4.3 Slot 5



## 2.4.4 Slot 6

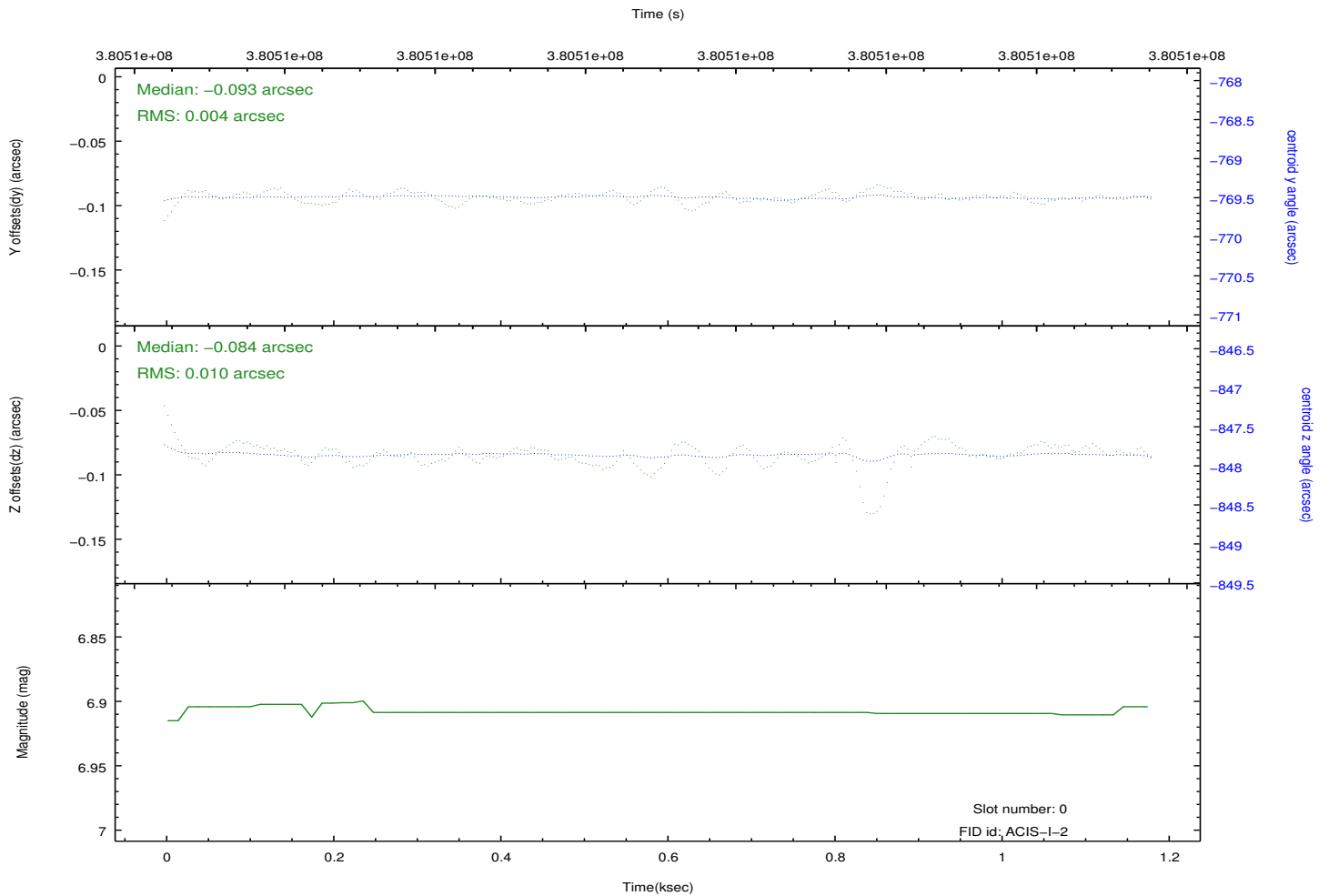
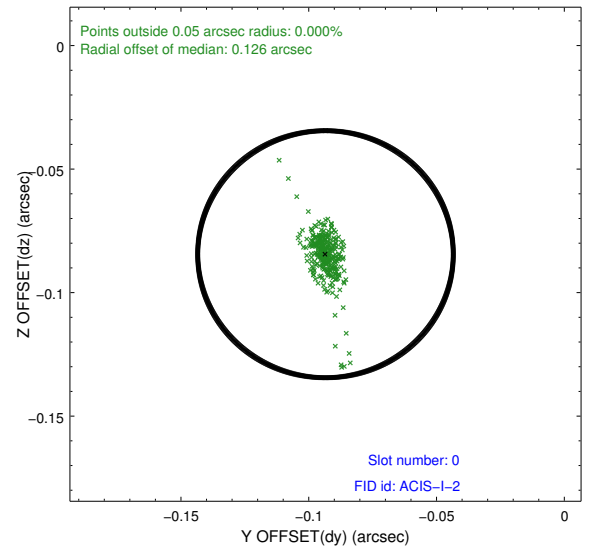
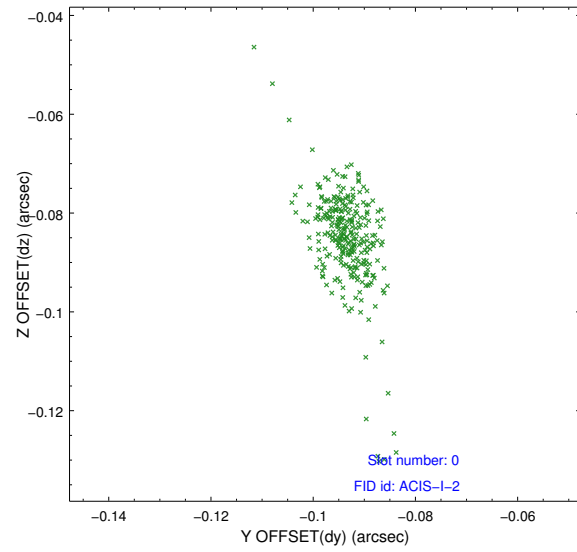


## 2.4.5 Slot 7

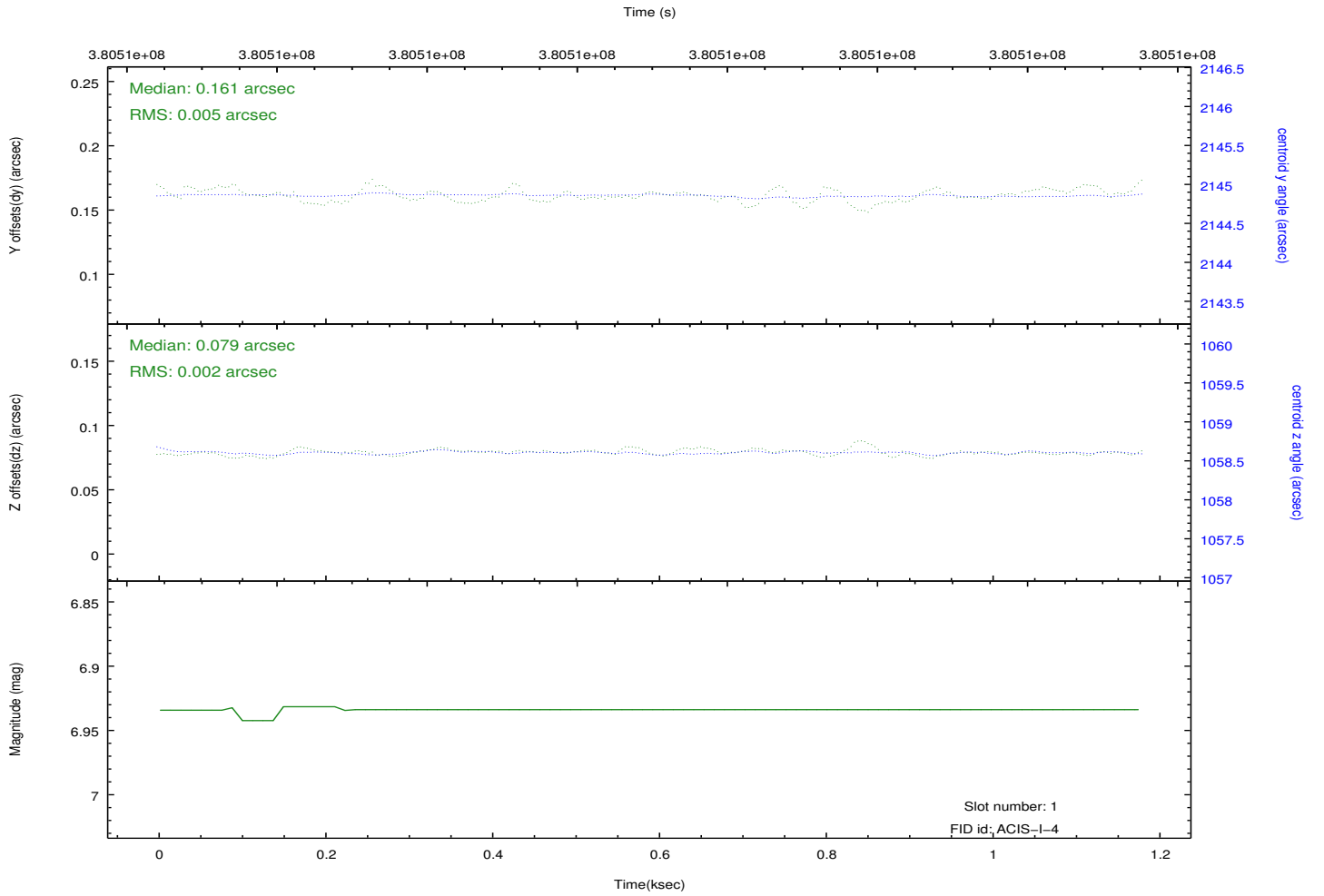
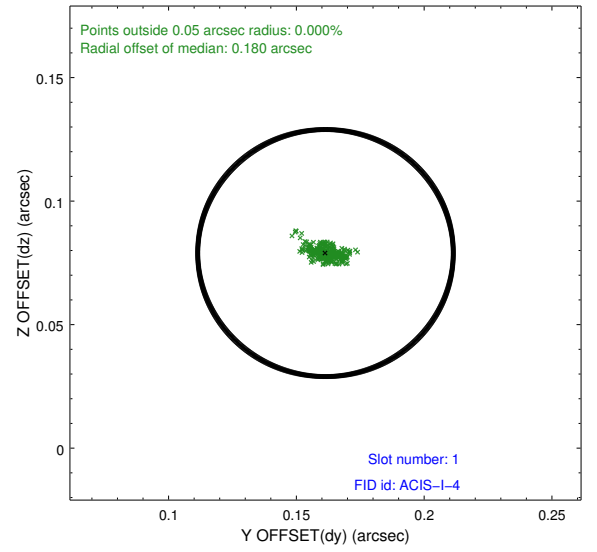
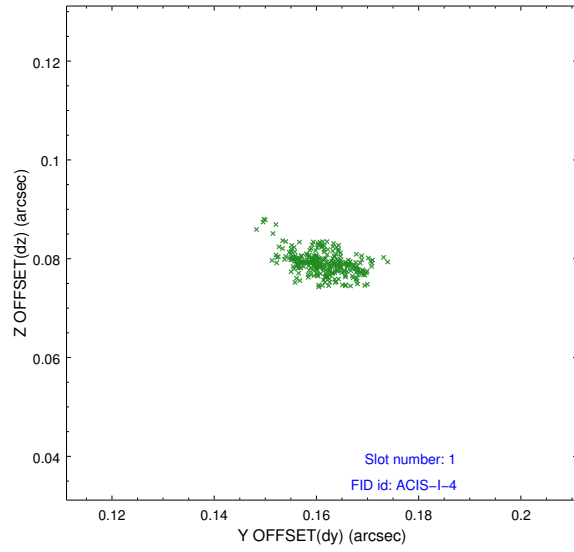


## 2.5 FID Slots

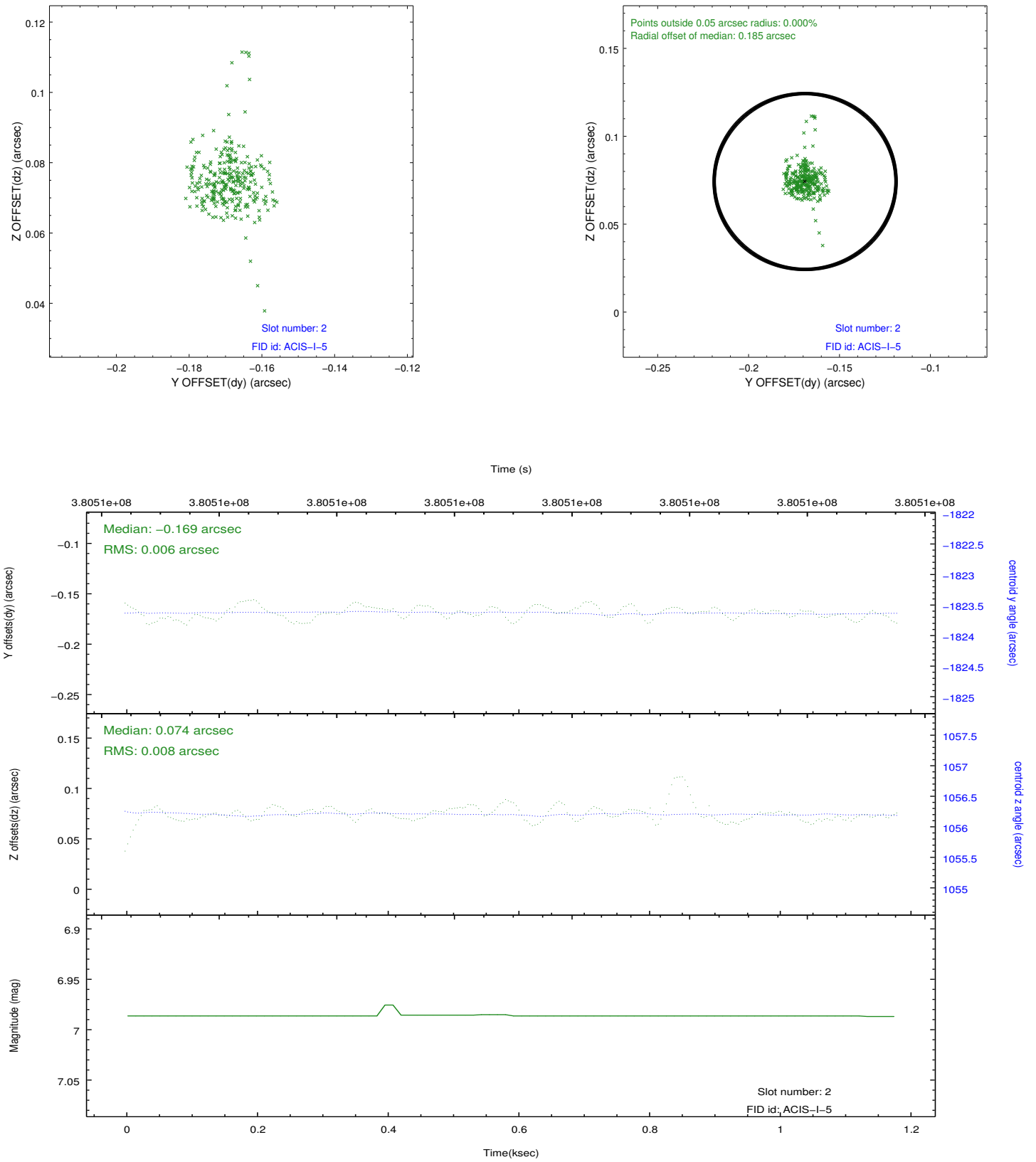
### 2.5.1 Slot 0



## 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)	2012.06.25
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.1743999956846

### A.2 Comments