

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 10365 - L2 Version 2  
Chandra X-Ray Center

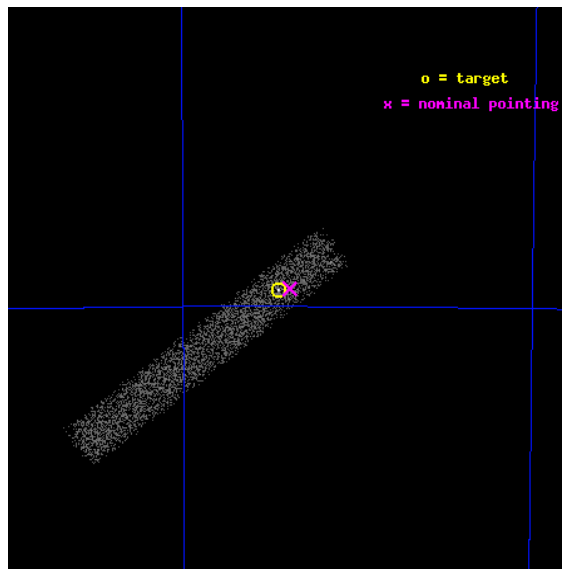
L2 Processing Date : Jun 16 2012

## 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

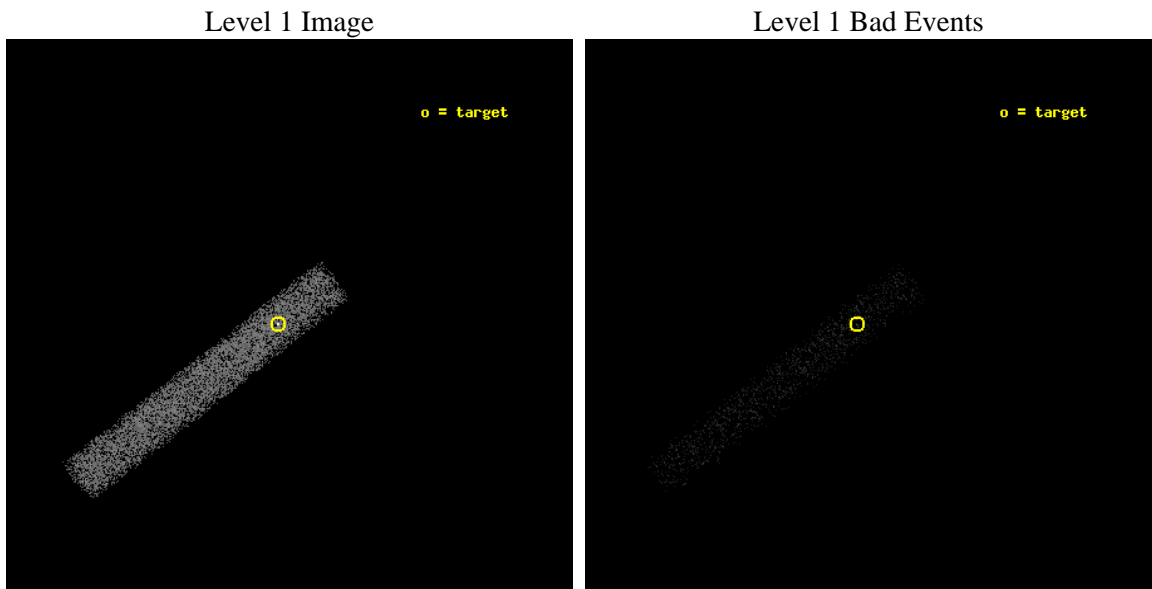
seq_num	701908	Sequence number
obs_id	10365	Observation id
title	Completing a Flux-limited Survey for X-ray Emission from Radio Jets	&#160
observer	Dr. Herman Marshall	Principal investigator
object	1303-827	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	197.158333	Observer's specified target RA [deg]
dec_targ	-82.992999	Observer's specified target Dec [deg]
ra_nom	197.11886723419	Nominal RA [deg]
dec_nom	-82.992527485136	Nominal Dec [deg]
roll_nom	142.09847470225	Nominal Roll [deg]
revision	2	Processing version of data
ontime	6188.3996311426	Sum of GTIs [s]
liveltime	5612.5518149307	Livetime [s]
ontime7	6188.3996311426	Sum of GTIs [s]
l2events	6155	Number of level 2 events



## 2 OBI

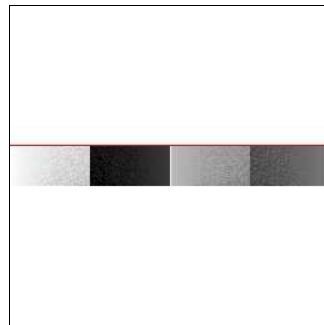
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	6000.265000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	6188.3996311426	Sum of GTIs [s]
caldbver	4.4.10	&#160	ontime7	6188.3996311426	Sum of GTIs [s]
date	2012-06-16T15:50:19	Date and time of file creation	l1events	13436	Number of level 1 events
revision	2	Processing version of data			

### 2.1.4 Events

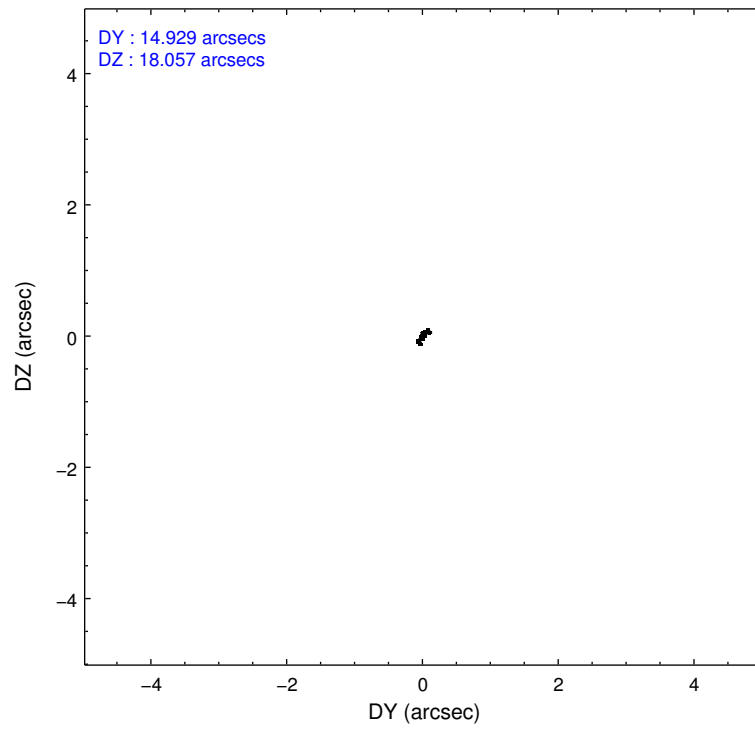
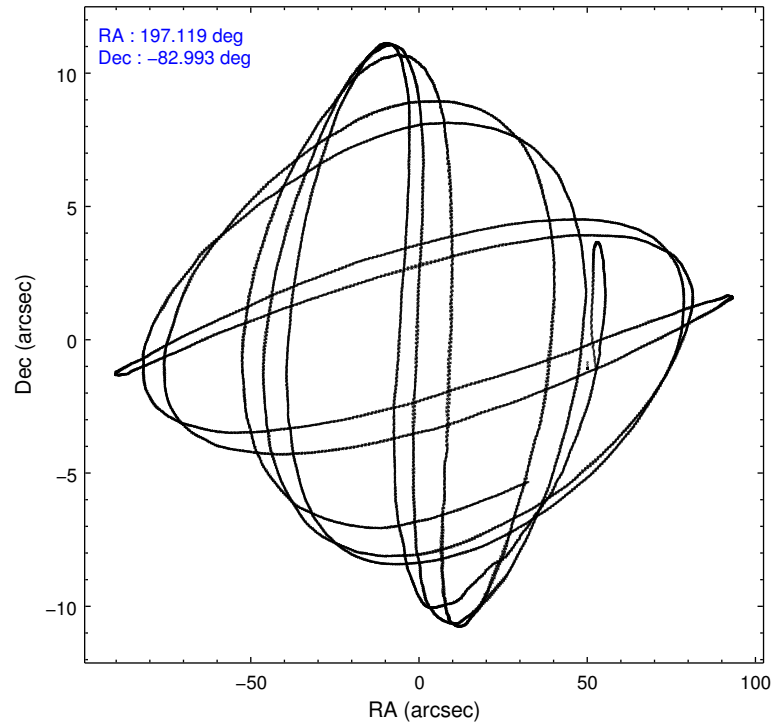
	<b>ccd 7</b>
level 1 events	13436
rejected events	7079
rejected %	52%

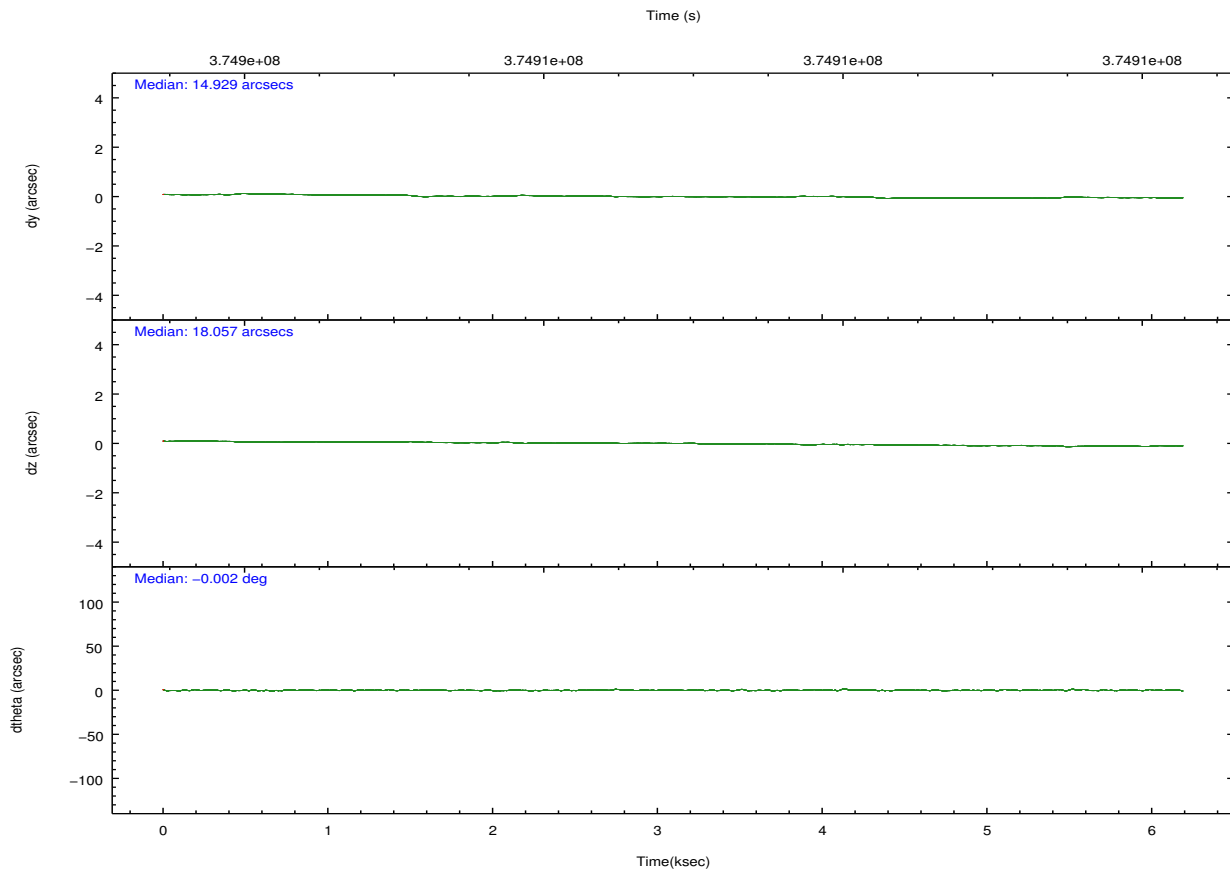
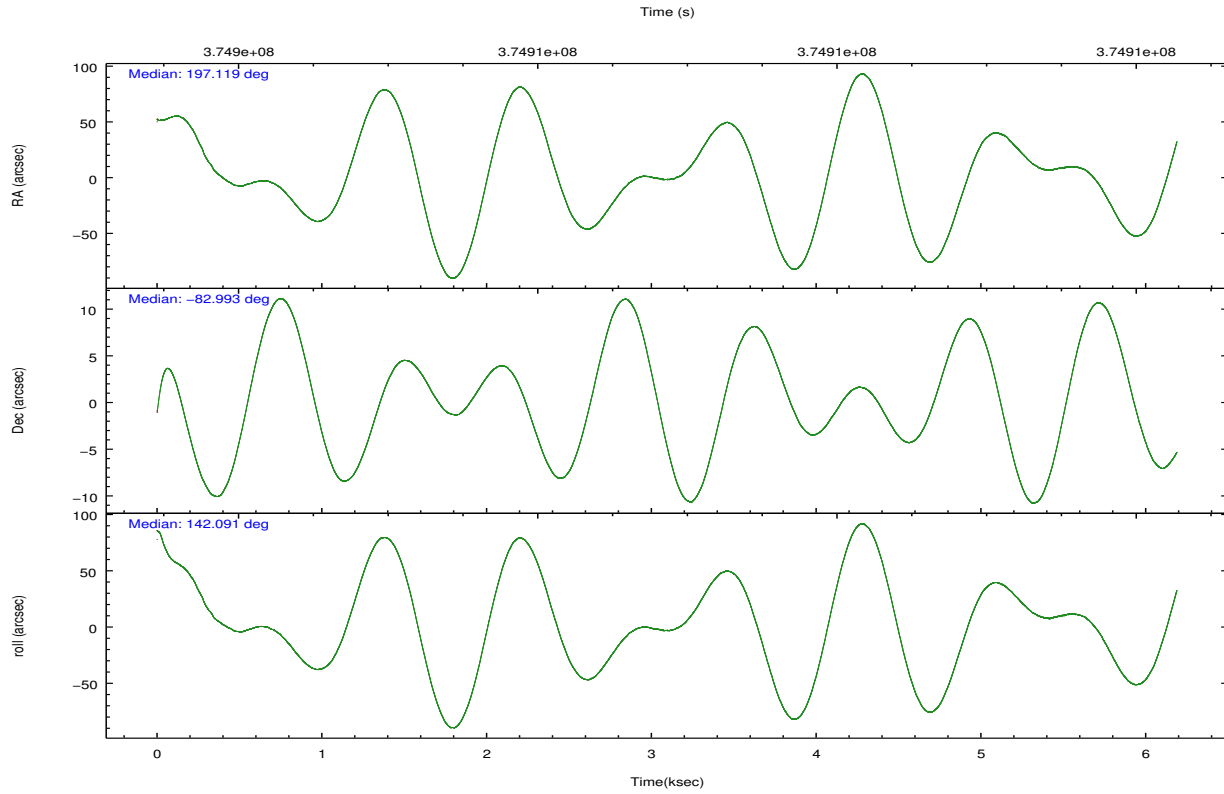
	<b>ccd 7</b>
grade 0 events	815
	6%
grade 1 events	19
	0%
grade 2 events	1334
	9%
grade 3 events	821
	6%
grade 4 events	806
	5%
grade 5 events	1204
	8%
grade 6 events	2896
	21%
grade 7 events	5541
	41%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-7	ACIS-7	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	197.341359	197.1188672341905	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	-82.995865	-82.99252748513629	Subarray start row	449	449
[deg] Pointing Roll	142.162622	142.0984747022542	Subarray row count	128	128
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	0.4
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	374903967.184000	374903197.22047			
Observation start date	2009-11-18T03:58:21	2009-11-18T03:46:37			
[s] Observation end time (MET)	374909967.184000	374910193.35832			
Observation end date	2009-11-18T05:38:21	2009-11-18T05:43:13			
Read mode	TIMED	TIMED			

## 2.3 Aspect



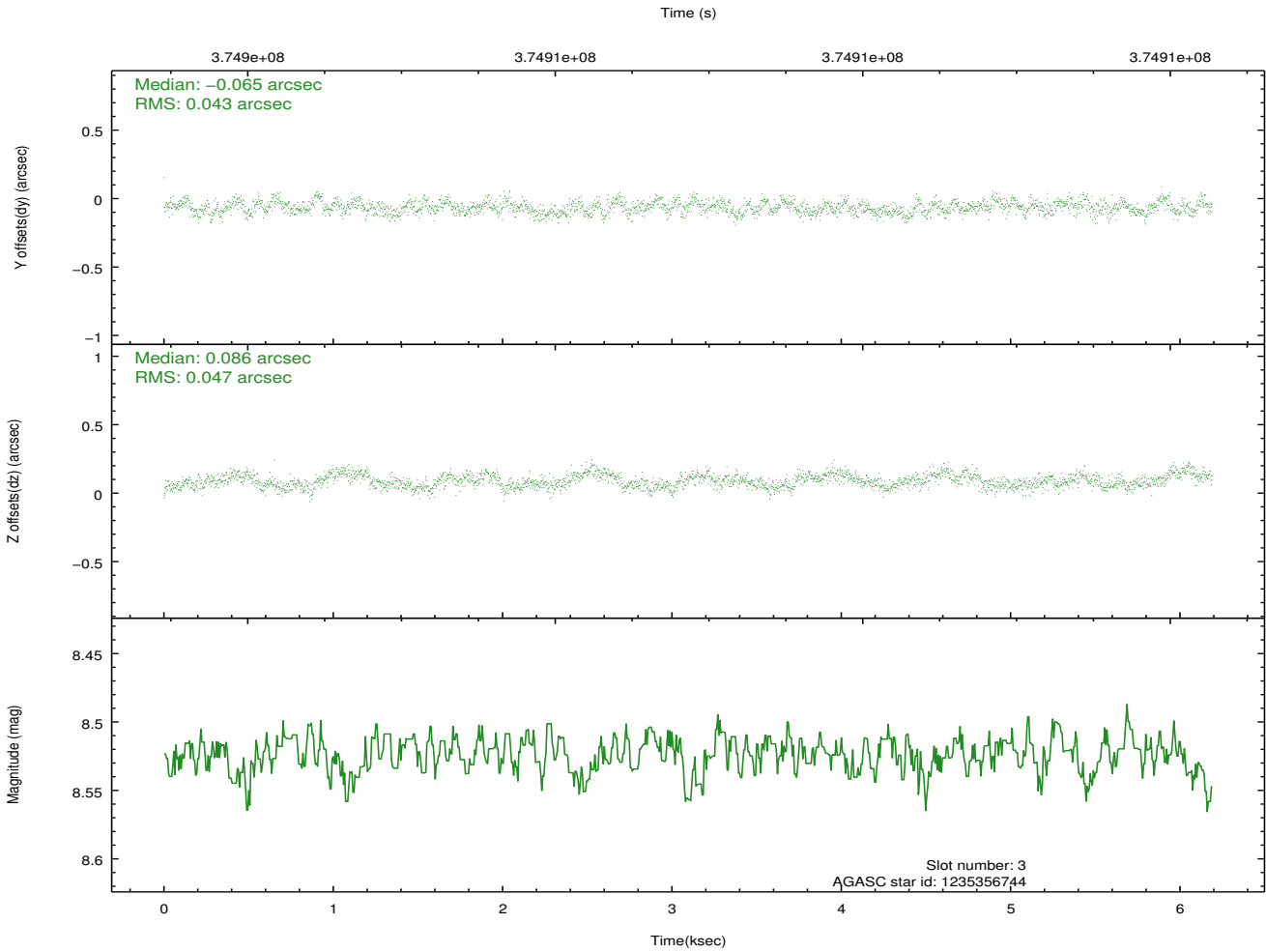
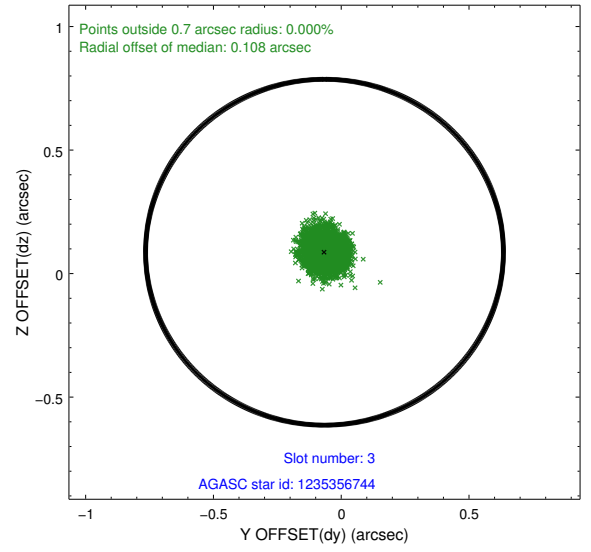
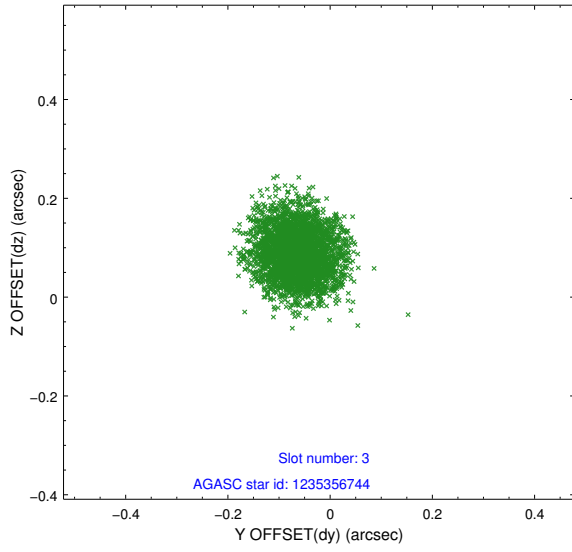


### Slot Statistics

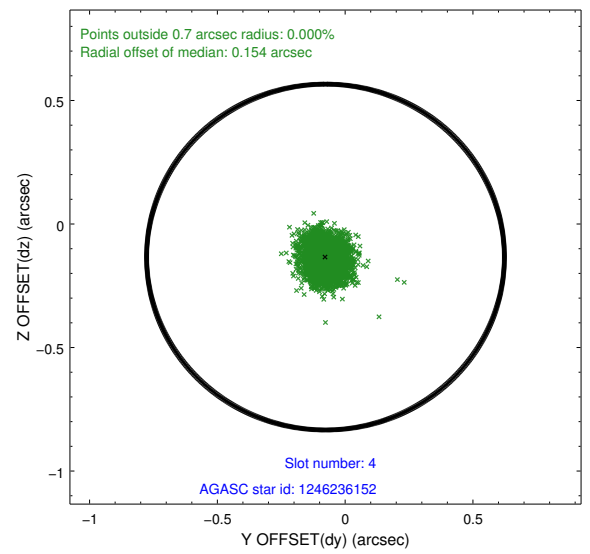
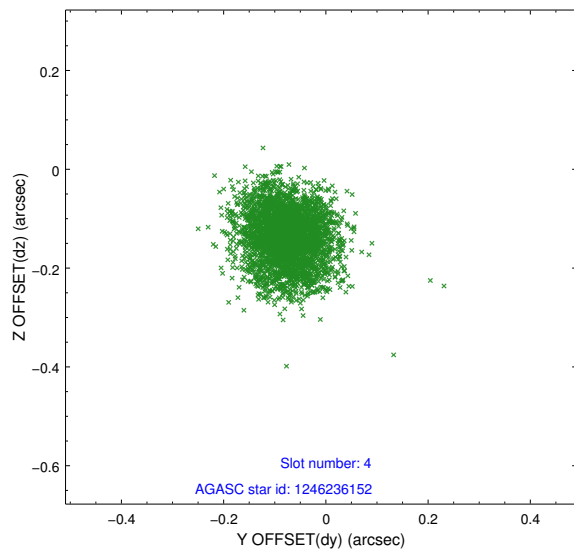
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.88	1510	-0.058	-0.042	0.007	0.011	0.000000	0.000000	-768.01	-1739.47
1	FID	ACIS-S-4	6.96	1510	0.164	0.039	0.006	0.011	0.000000	0.000000	2145.10	168.02
2	FID	ACIS-S-5	6.99	1510	-0.137	0.012	0.007	0.012	0.000000	0.000000	-1819.66	162.86
3	GUIDE	1235356744	8.52	3016	-0.065	0.086	0.069	0.106	197.746776	-82.268839	1450.76	-2186.47
4	GUIDE	1246236152	8.83	3016	-0.077	-0.134	0.076	0.122	196.151115	-83.028764	334.99	416.15
5	GUIDE	1246237112	9.25	2997	-0.028	0.043	0.086	0.143	193.116124	-83.069748	1244.16	1388.35
6	GUIDE	1246241224	8.88	3016	0.175	-0.076	0.072	0.117	195.264380	-82.957176	800.12	465.83
7	GUIDE	1246242432	9.18	3017	-0.003	0.082	0.120	0.187	193.647492	-83.173043	825.73	1513.08

## 2.4 Star Slots

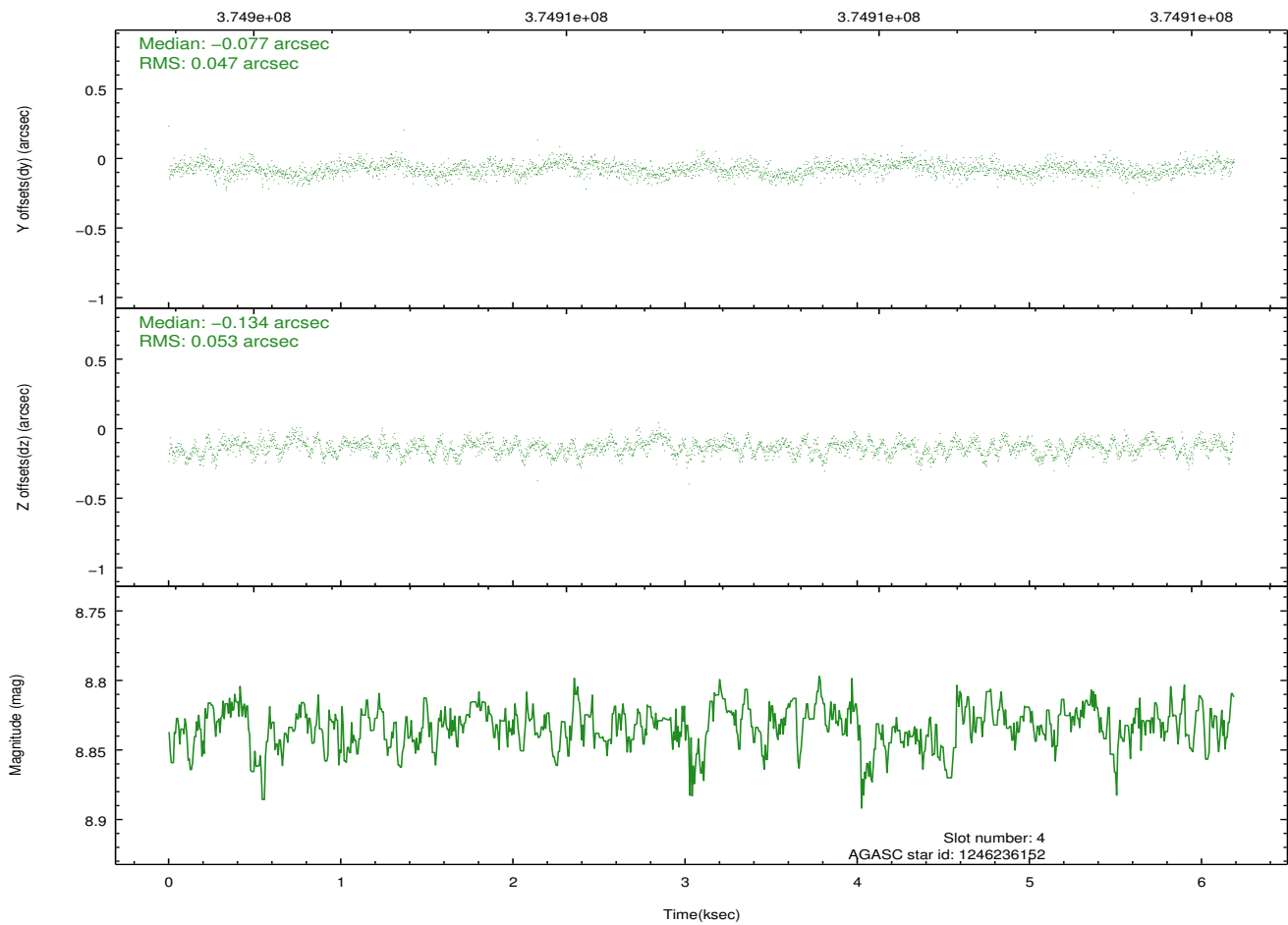
### 2.4.1 Slot 3



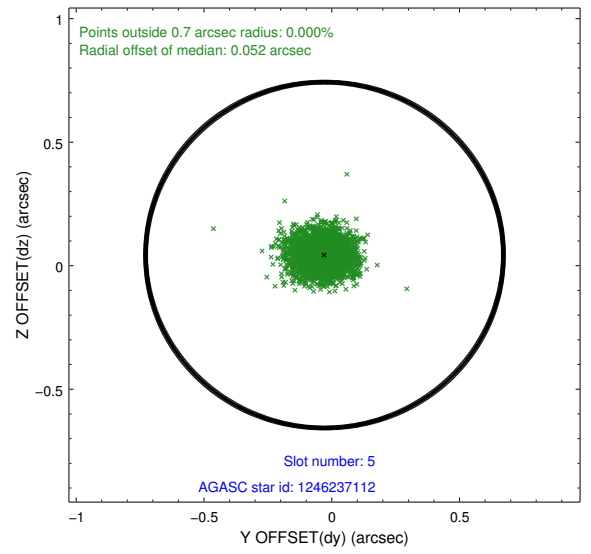
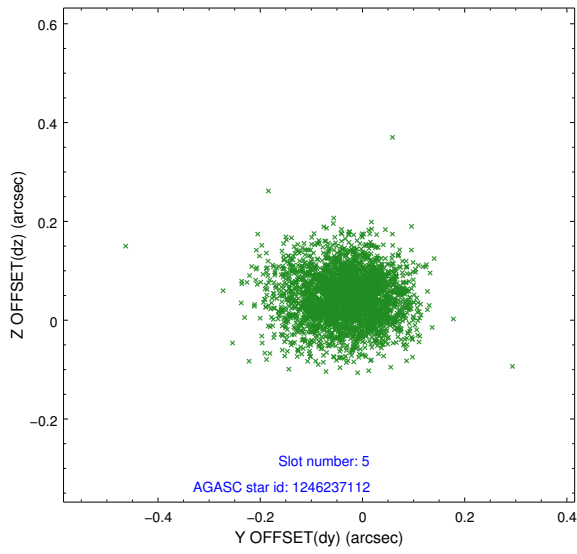
## 2.4.2 Slot 4



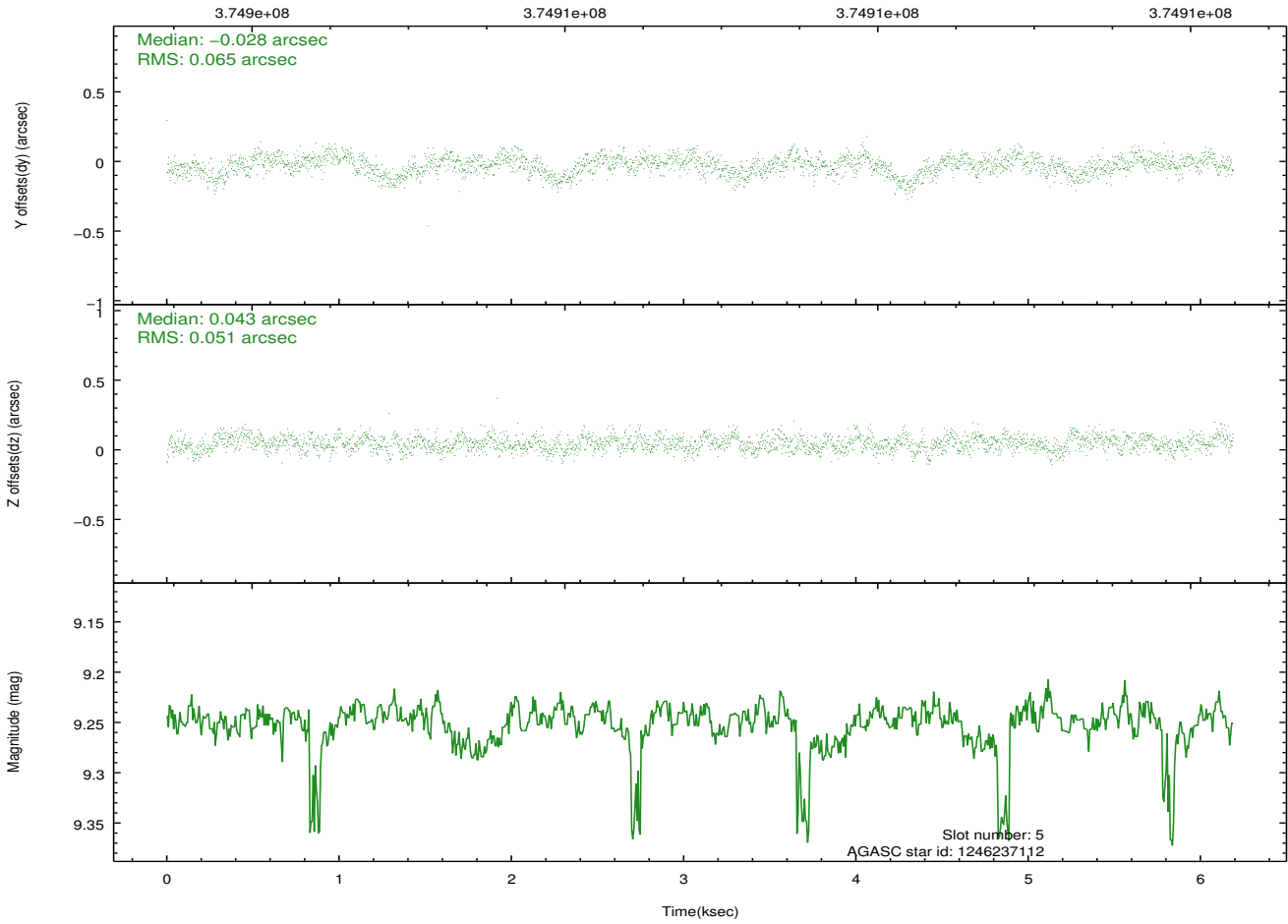
Time (s)



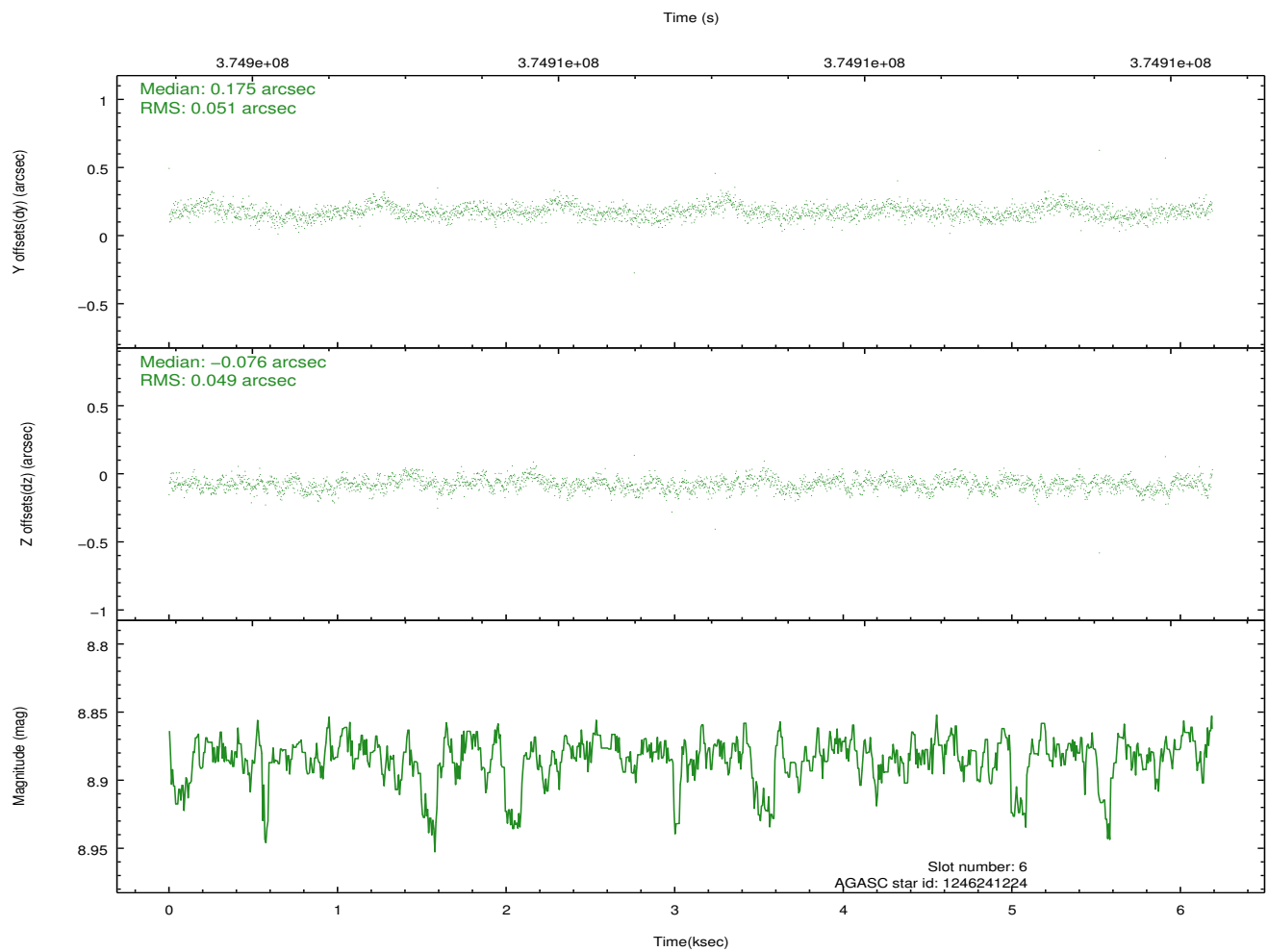
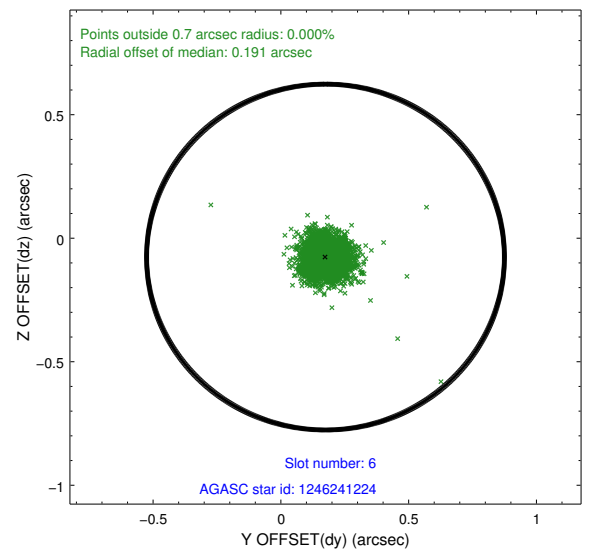
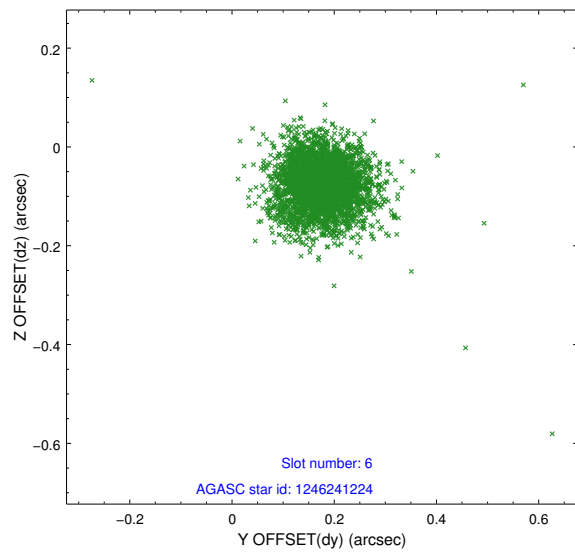
### 2.4.3 Slot 5



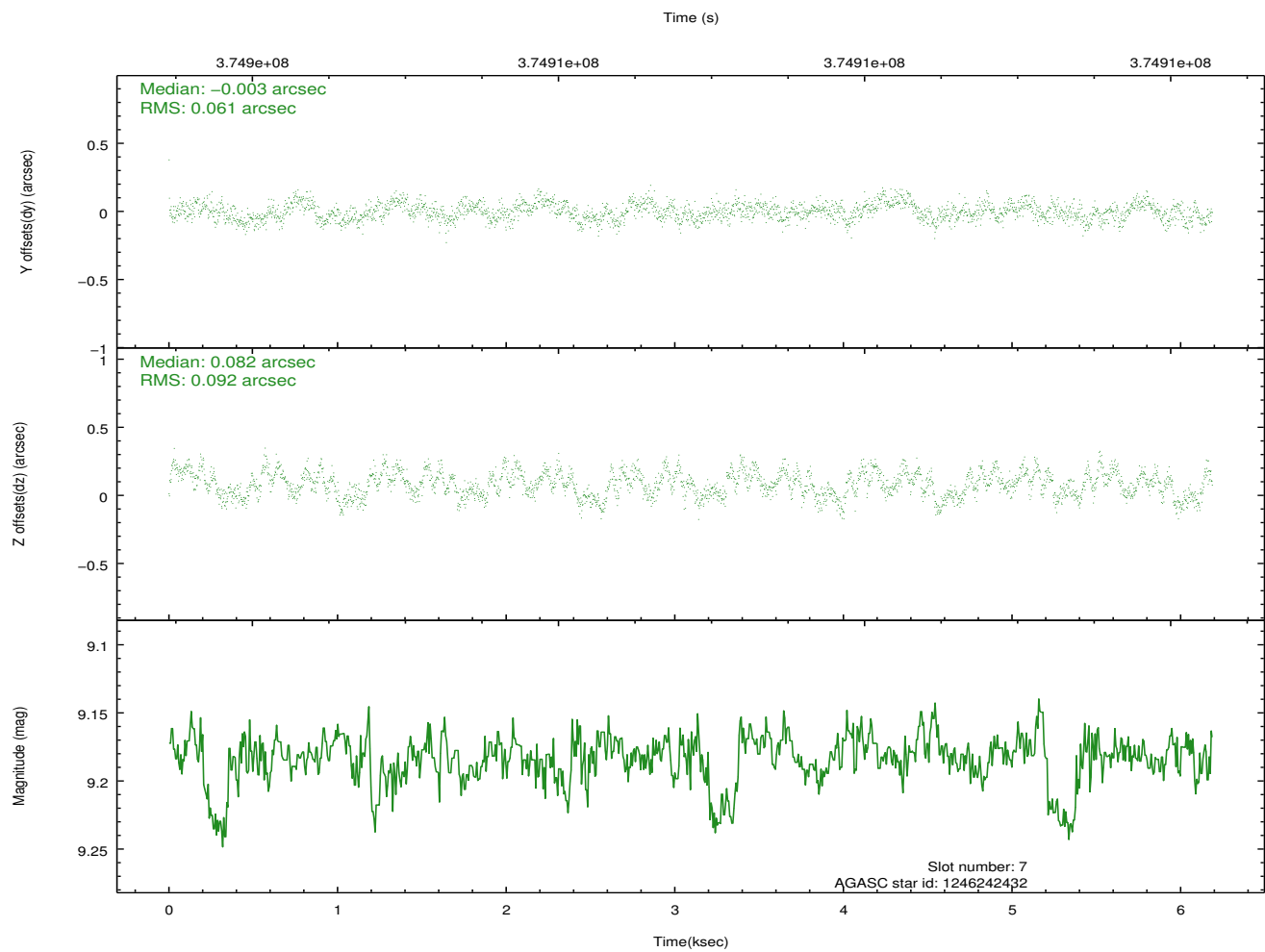
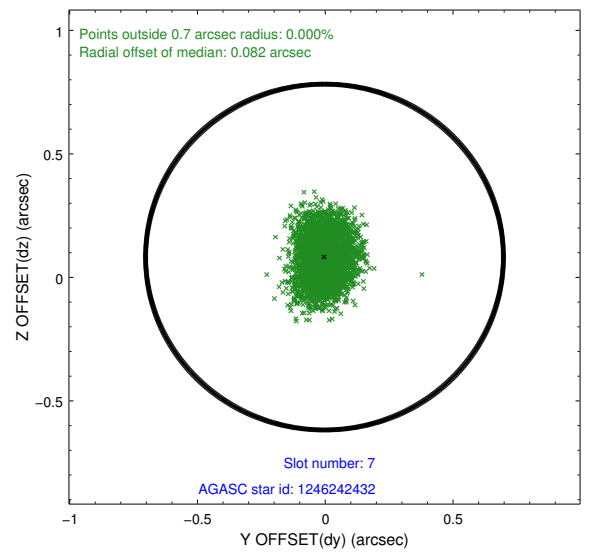
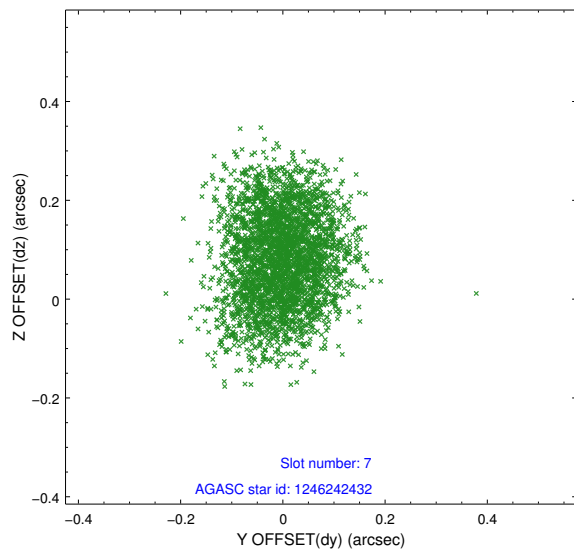
Time (s)



## 2.4.4 Slot 6

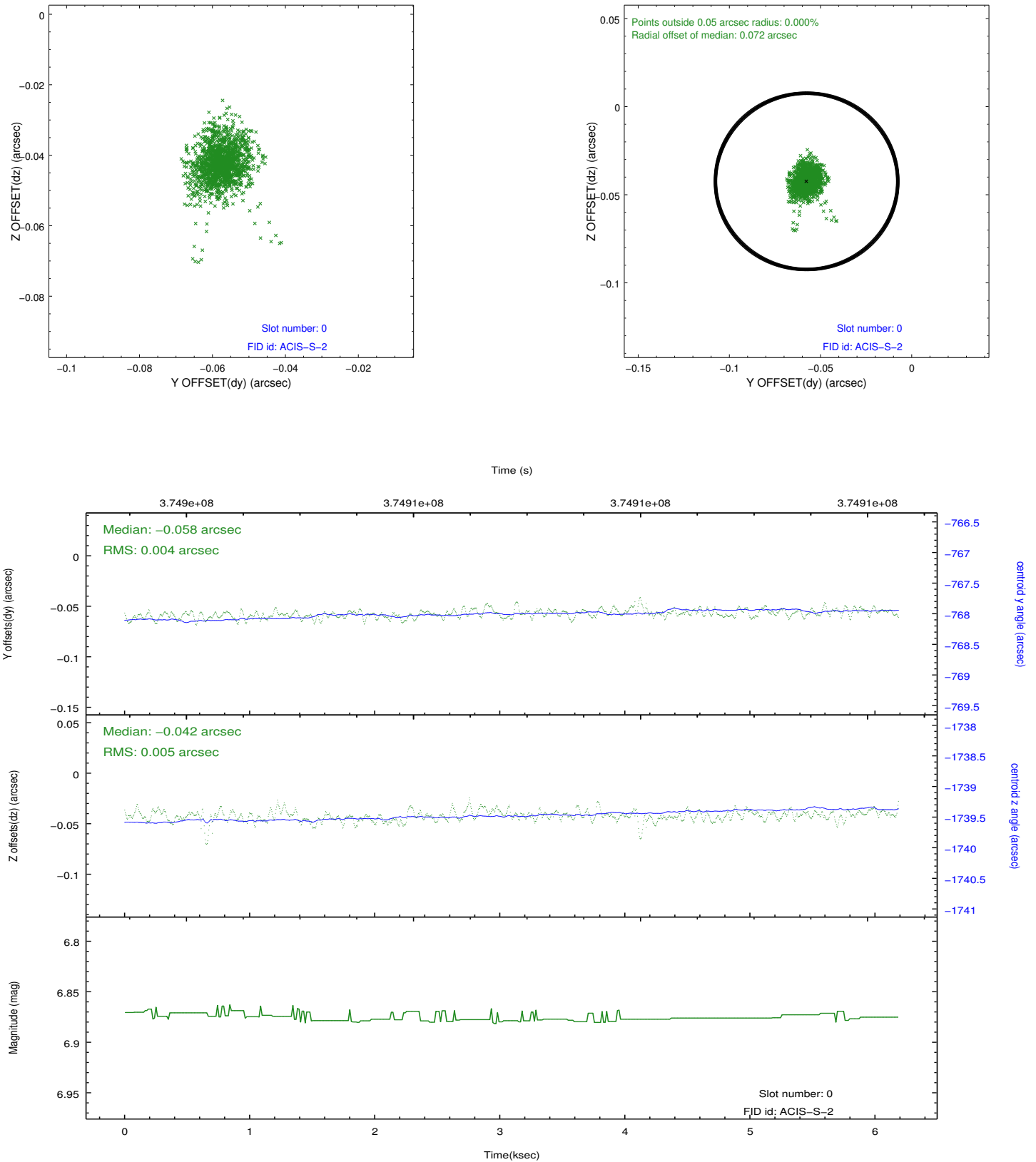


## 2.4.5 Slot 7

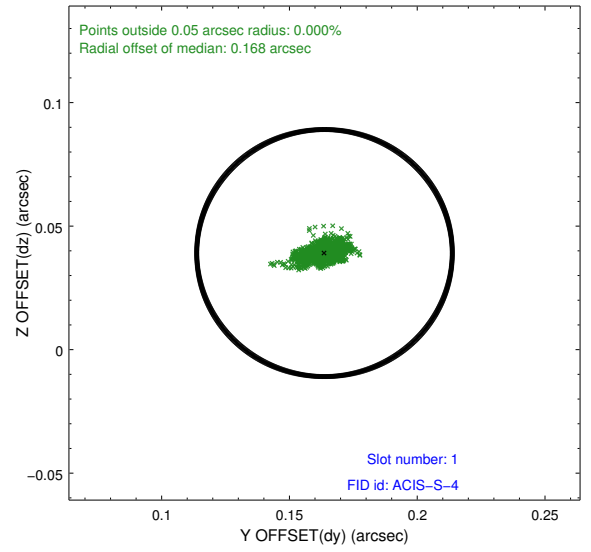
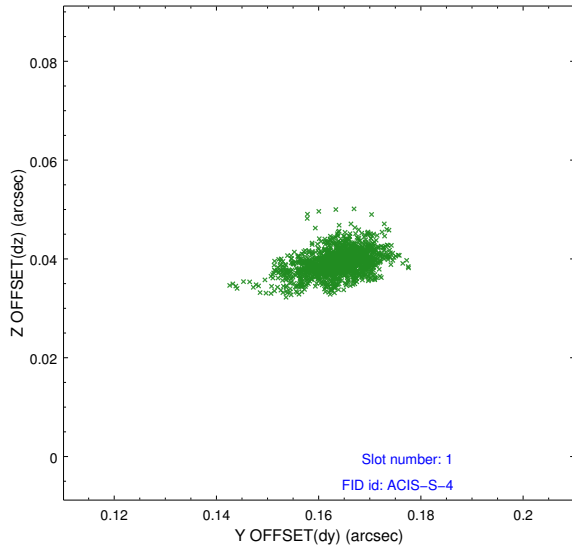


## 2.5 FID Slots

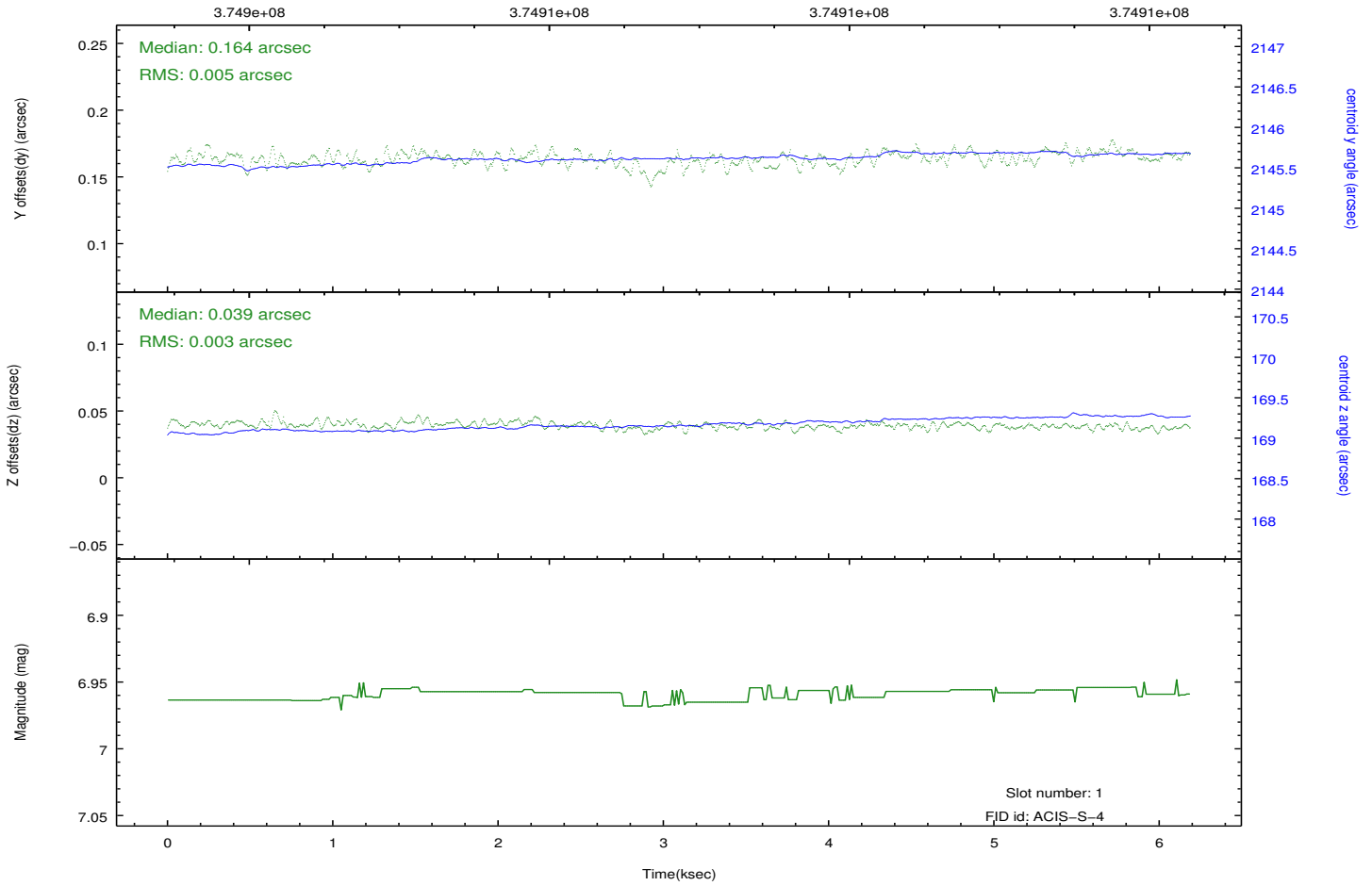
### 2.5.1 Slot 0



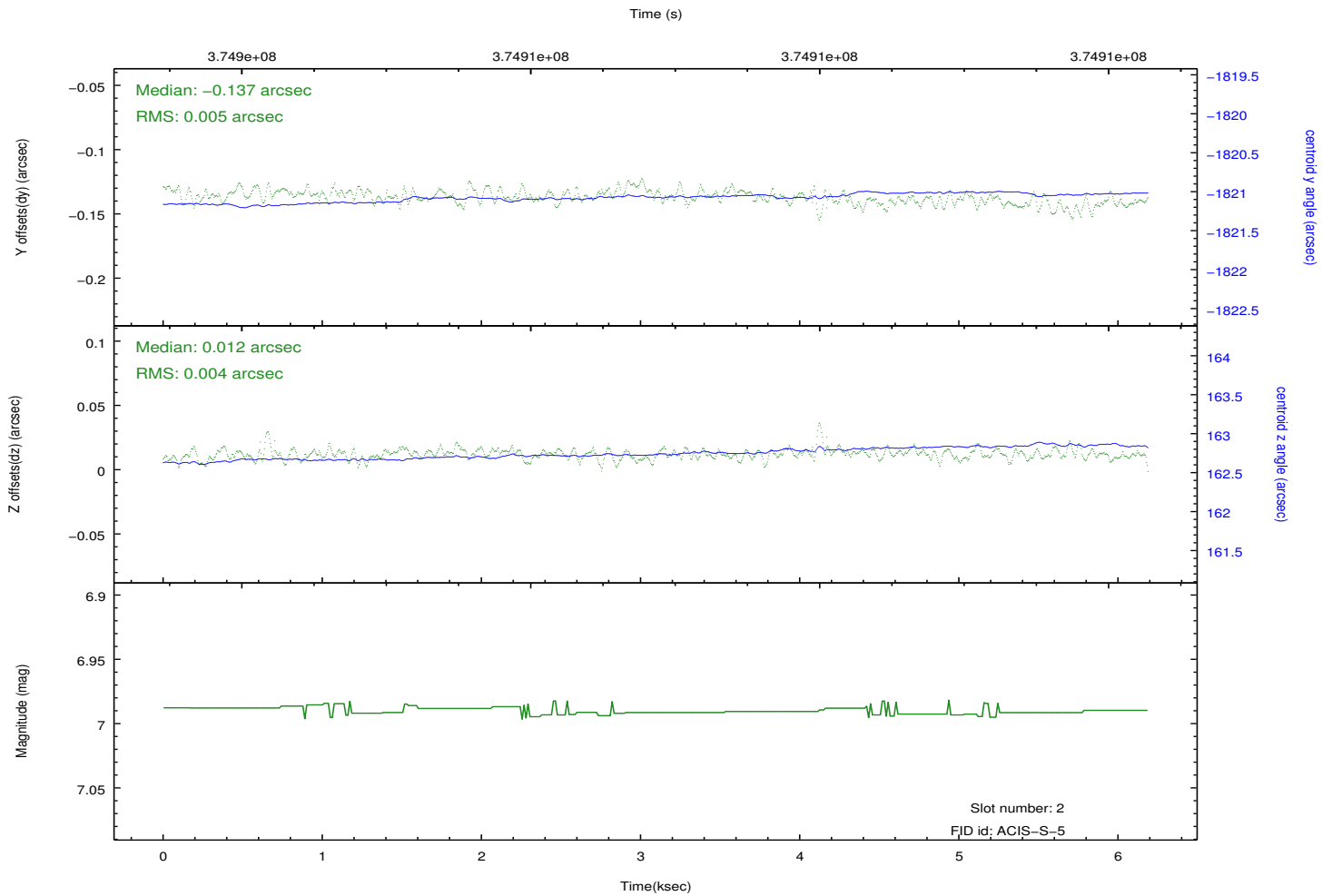
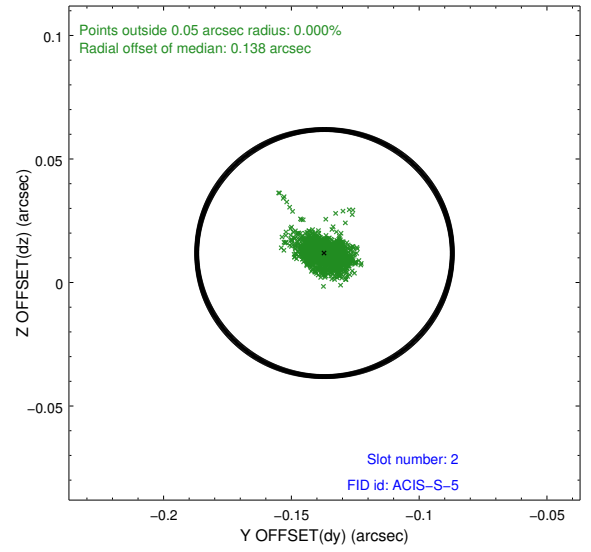
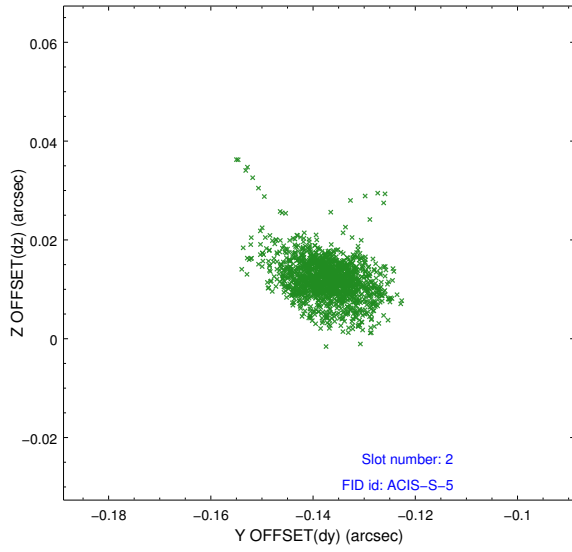
## 2.5.2 Slot 1



Time (s)



### 2.5.3 Slot 2



# A Summary

## A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.06.20
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	6.1883996311426

## A.2 Comments

Joint proposal: HST. Roll preference met.