

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 9647 - L2 Version 3  
Chandra X-Ray Center

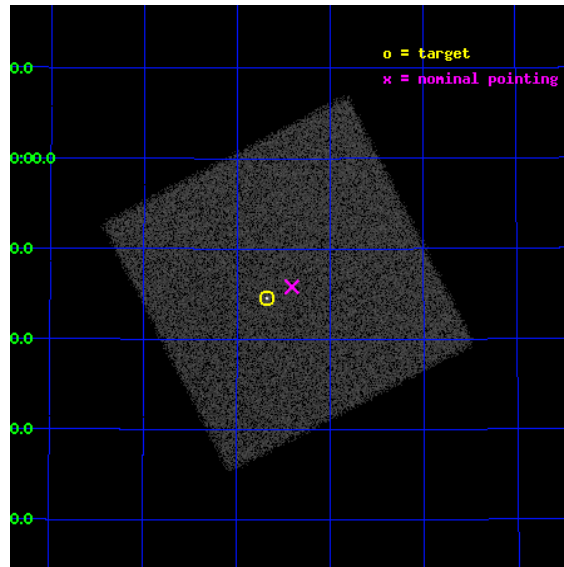
L2 Processing Date : Aug 12 2012

## 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	Parameters . . . . .	4
2.1.3	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

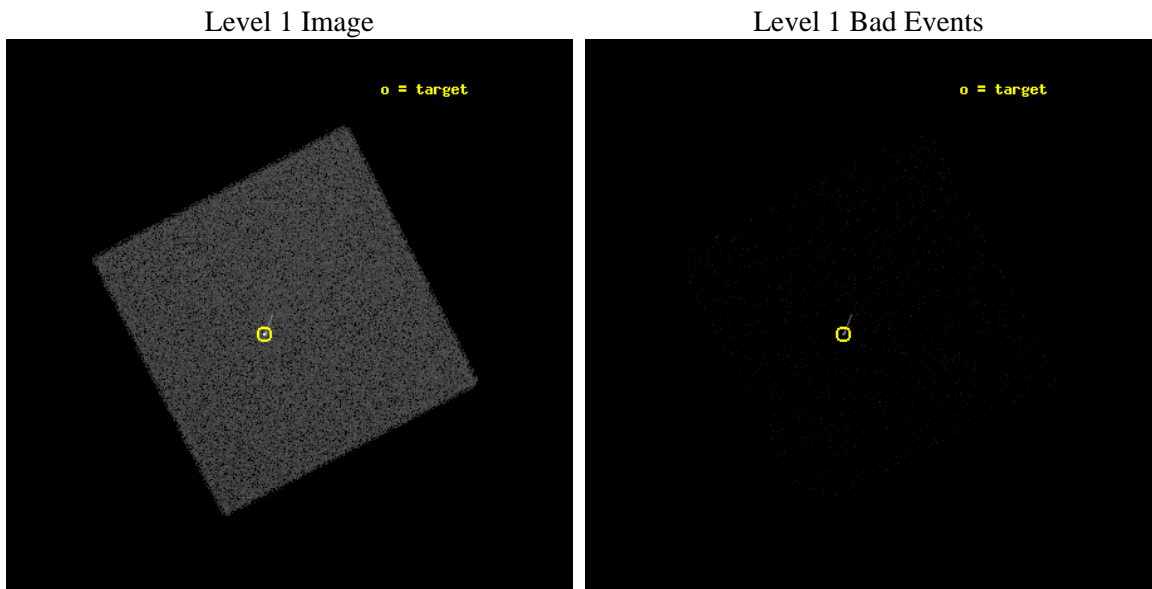
seq_num	290770	Sequence number
obs_id	9647	Observation id
title	AO9 Calibration Observations to Monitor the Spatial Variations in the HRC-I Gain	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.1027043817	Nominal RA [deg]
dec_nom	45.763520453509	Nominal Dec [deg]
roll_nom	197.6767404371	Nominal Roll [deg]
revision	3	Processing version of data
ontime	1362.225066781	[s]
livetime	1347.436698114	Ontime multiplied by DTCOR
l2events	92225	Number of level 2 events



## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



### 2.1.2 Parameters

obi_num	0	Obi number	sched_exp_time	1180.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	1362.225066781	[s]
caldsver	4.5.1.1	&#160	l1events	164614	Number of level 1 events
date	2012-08-12T19:33:43	Date and time of file creation			
revision	3	Processing version of data			

### 2.1.3 Events

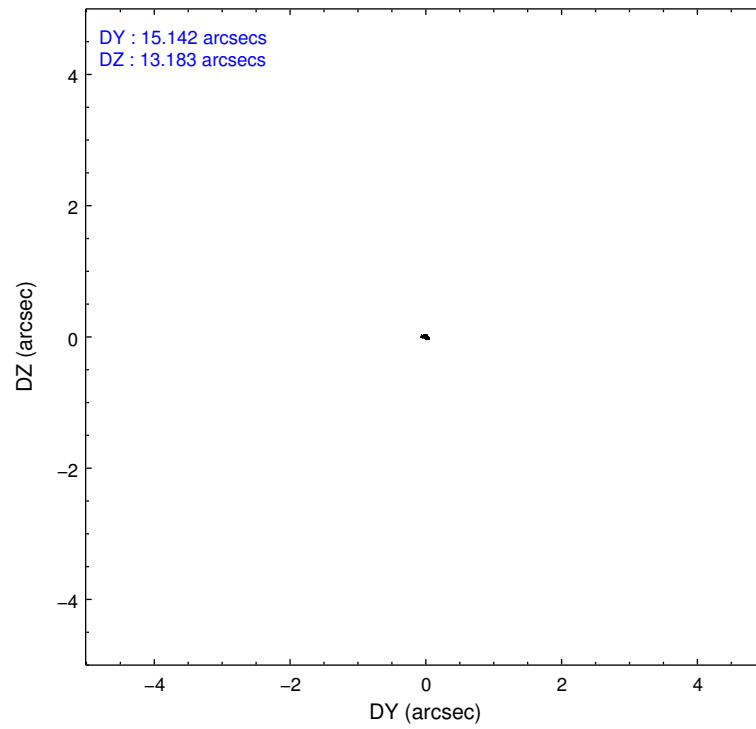
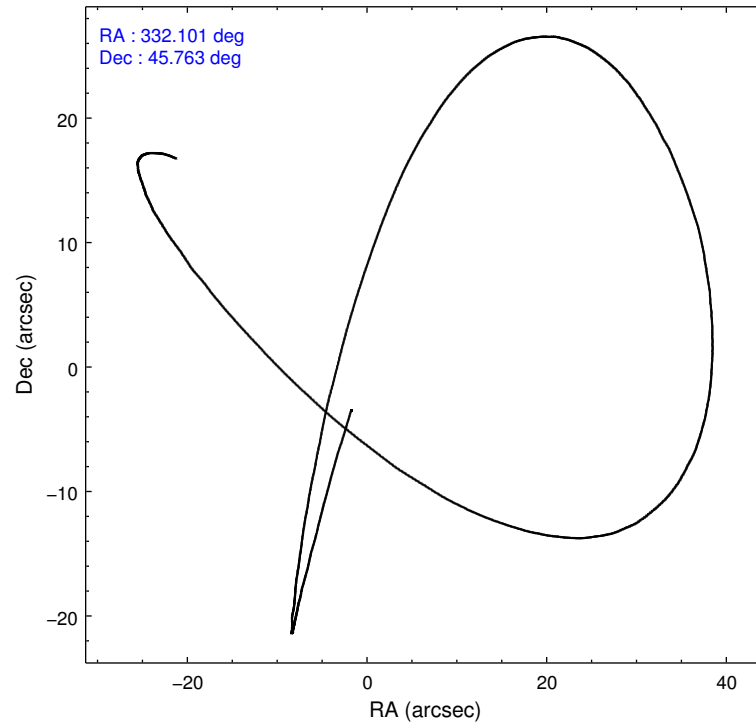
#### Level 1 Events

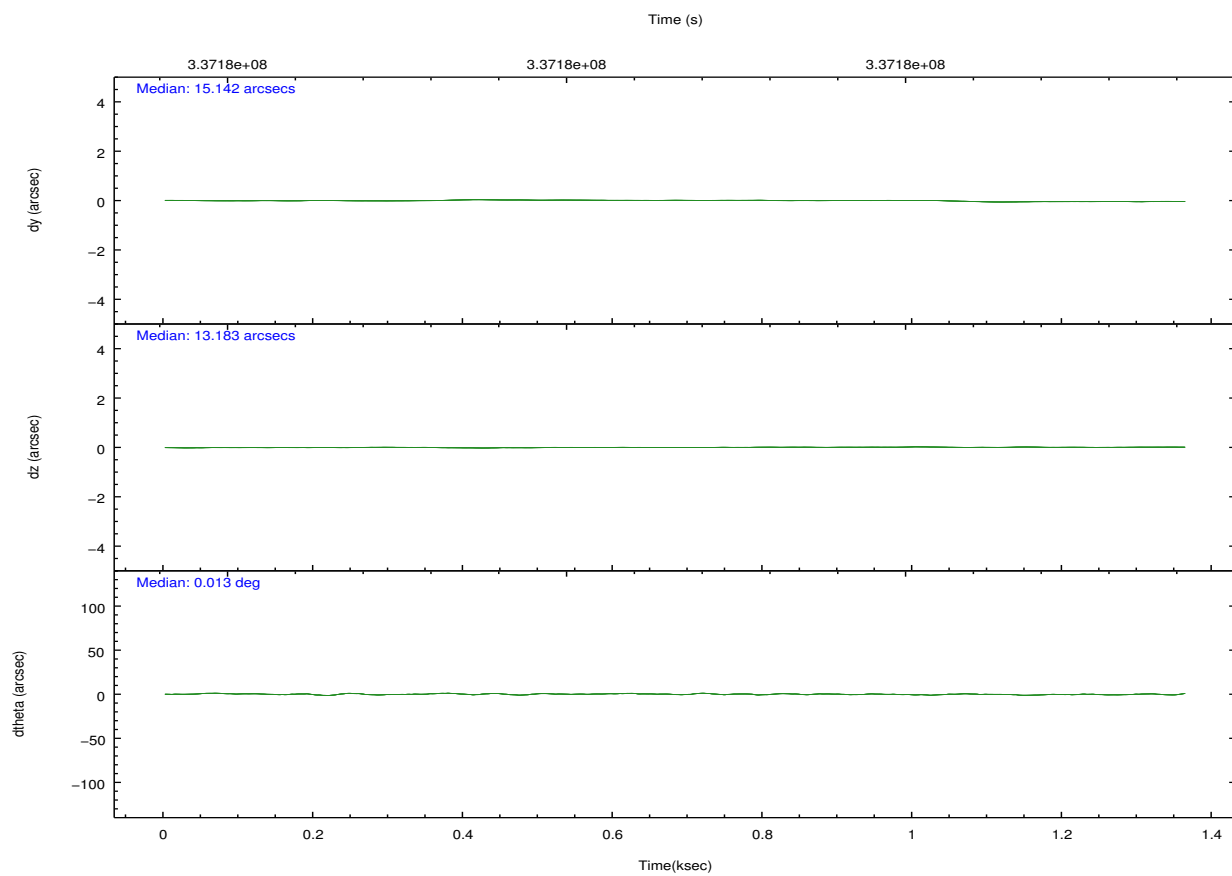
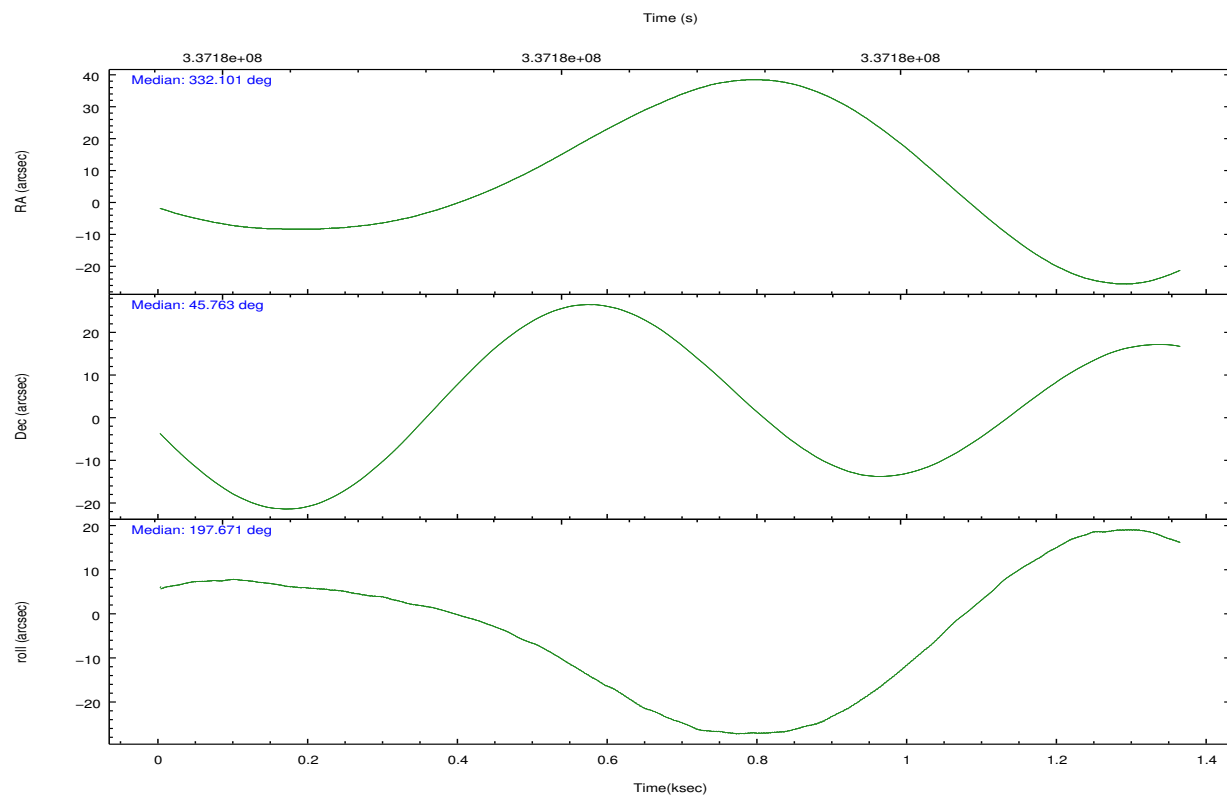
	<b>segment 0</b>
level 1 events	164614
rejected events	32168
rejected %	19%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	HRC	HRC	Obspar format version number	7	7
Detector	HRC-I	HRC-I	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	OBSERVING	OBSERVING			
Observation mode	POINTING	POINTING			
[deg] Pointing RA	332.129492	332.1027043816964			
[deg] Pointing Dec	45.784705	45.76352045350865			
[deg] Pointing Roll	197.753018	197.6767404370998			
[mm] SIM focus pos	-1.040293	-1.038866356238299			
[mm] SIM defocus	0	0.001426264420575141			
[mm] SIM translation stage pos	126.985494	126.9829799899862			
[mm] SIM translation stage offset	0	0.002508901615314585			
[s] Observation start time (MET)	337181657.184000	337181280.64327			
Observation start date	2008-09-07T13:33:12	2008-09-07T13:28:00			
[s] Observation end time (MET)	337182837.184000	337182970.86835			
Observation end date	2008-09-07T13:52:52	2008-09-07T13:56:10			

## 2.3 Aspect





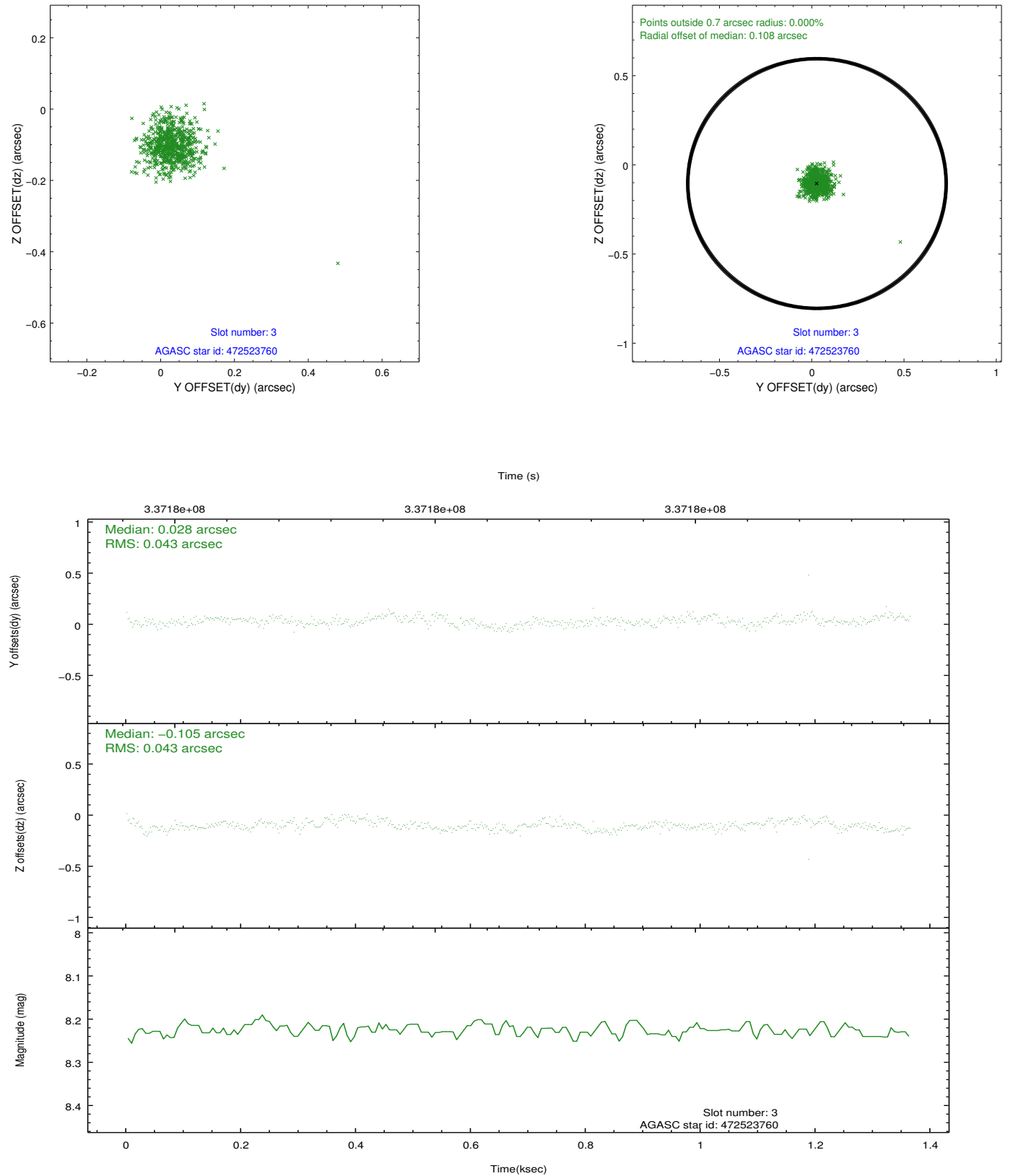
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-I-1	7.00	333	-0.107	-0.016	0.005	0.008	0.000000	0.000000	-771.15	-1301.17
1	FID	HRC-I-2	7.03	333	0.190	-0.091	0.006	0.011	0.000000	0.000000	839.46	-1306.84
2	FID	HRC-I-4	7.02	333	0.034	0.014	0.006	0.010	0.000000	0.000000	1274.47	996.95
3	GUIDE	472523760	8.23	666	0.028	-0.105	0.061	0.099	331.645363	45.403260	1579.77	930.13
4	GUIDE	472527720	6.99	666	-0.186	-0.036	0.082	0.134	331.460205	45.112509	2353.91	1779.99
5	GUIDE	472533912	9.14	666	0.030	-0.001	0.113	0.179	331.791136	46.368695	159.46	-2258.69
6	GUIDE	472535576	7.87	666	-0.104	0.069	0.058	0.106	331.438373	46.291802	1075.59	-2274.29
7	GUIDE	472665256	9.01	665	0.223	0.074	0.092	0.152	332.808125	46.195041	-2064.51	-902.86

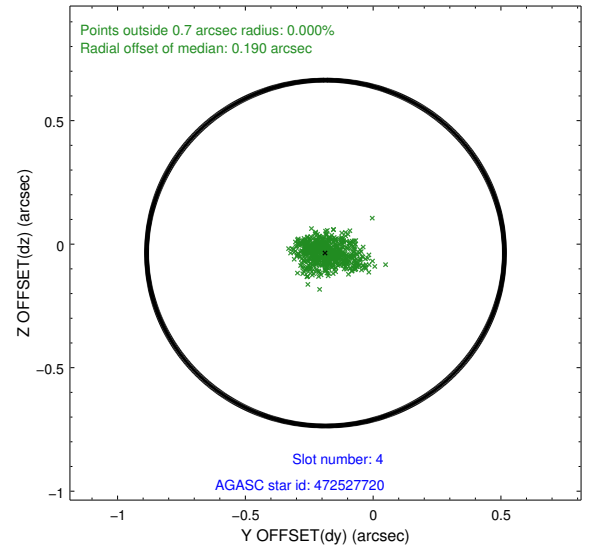
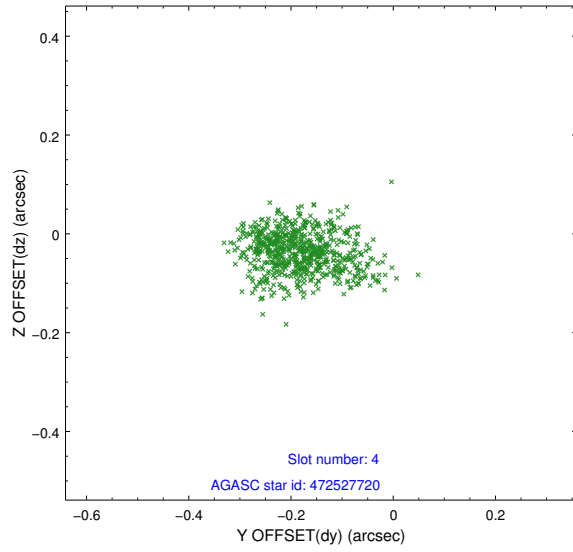


## 2.4 Star Slots

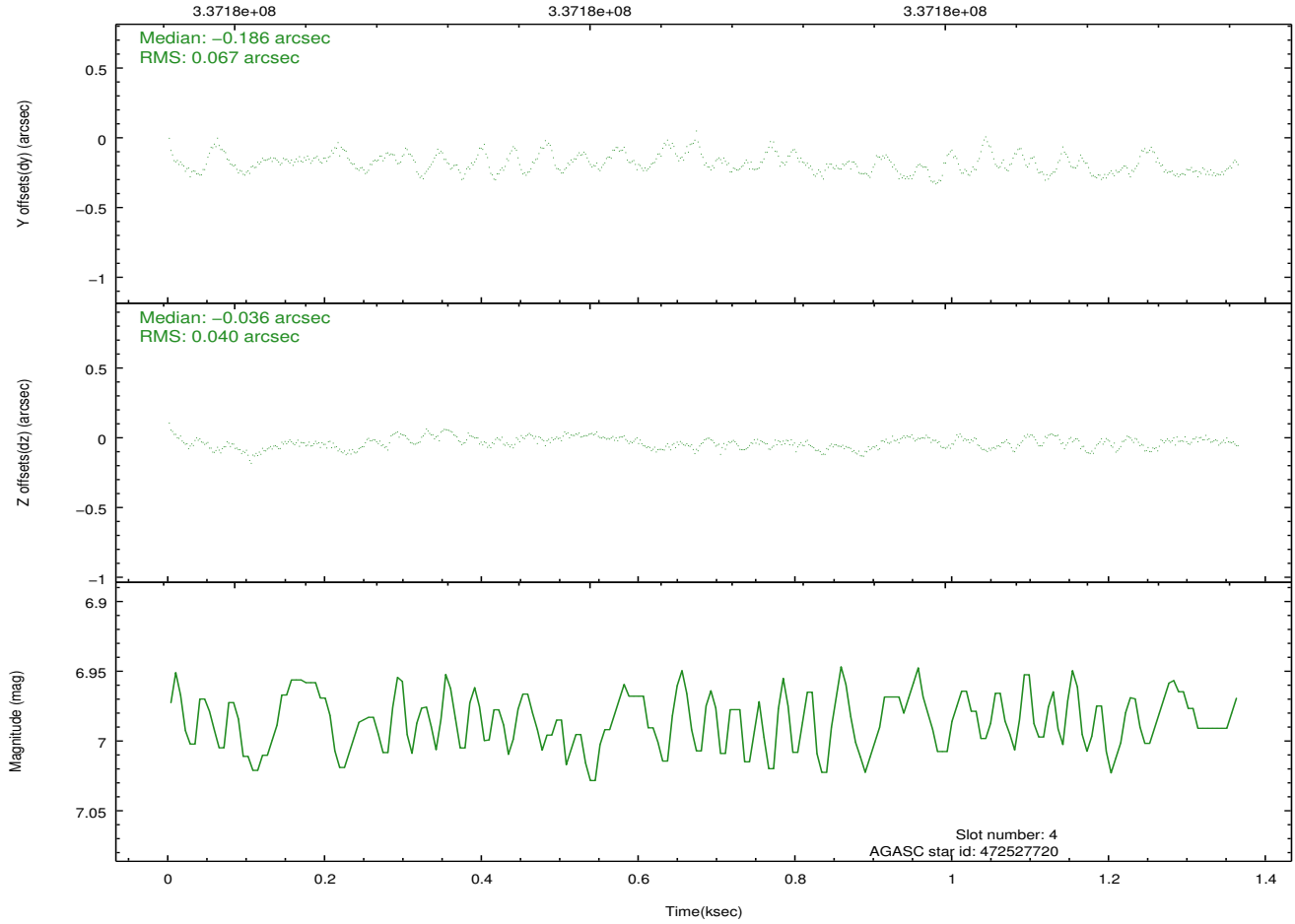
### 2.4.1 Slot 3



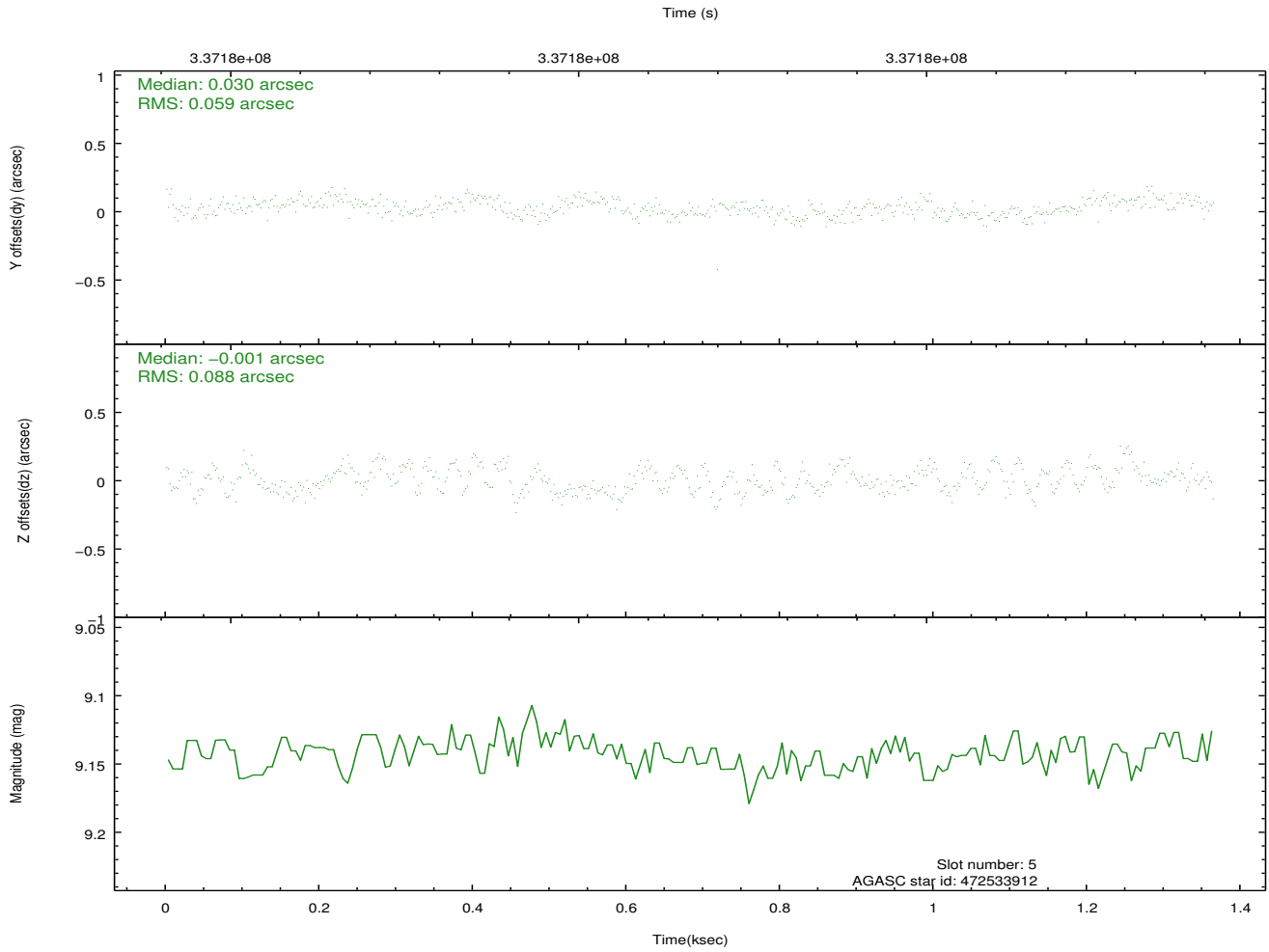
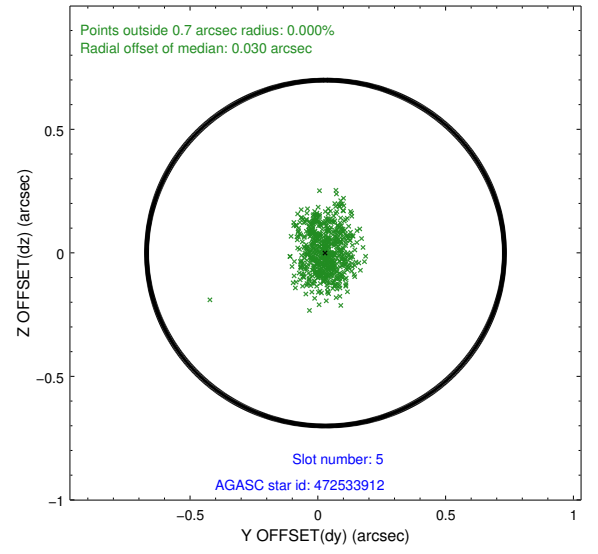
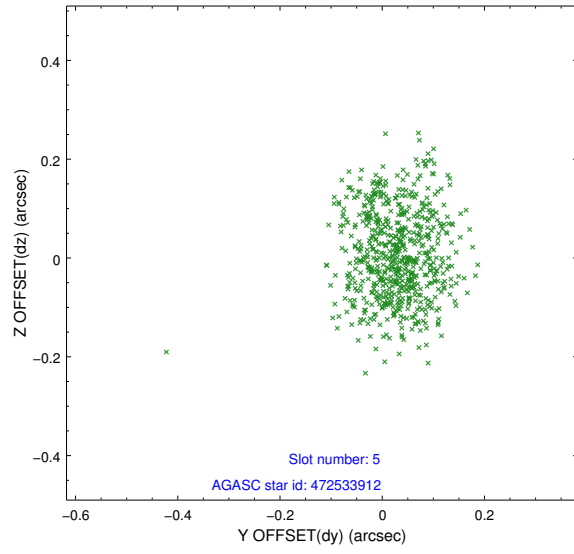
## 2.4.2 Slot 4



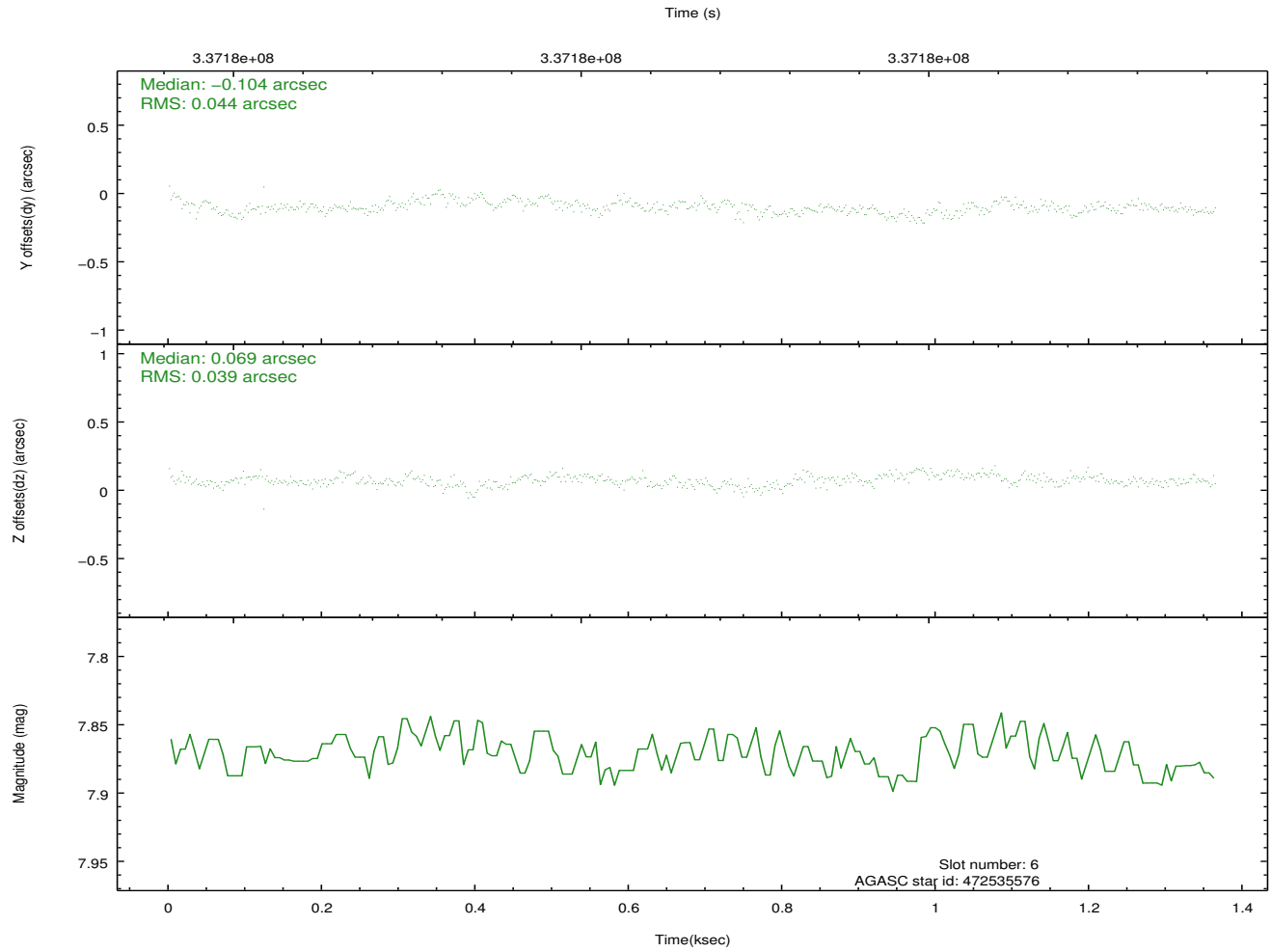
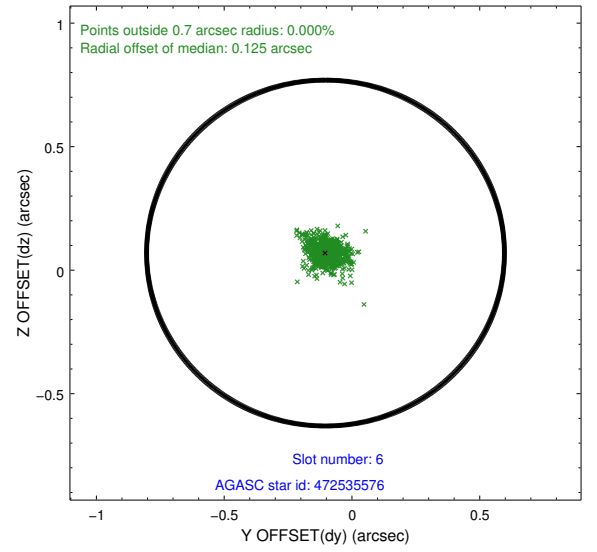
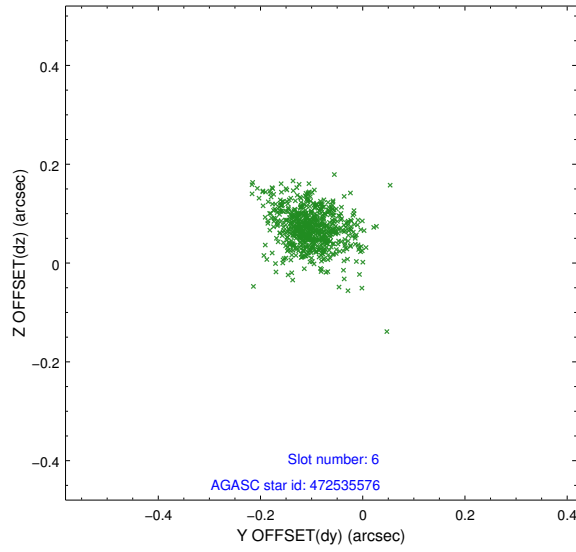
Time (s)



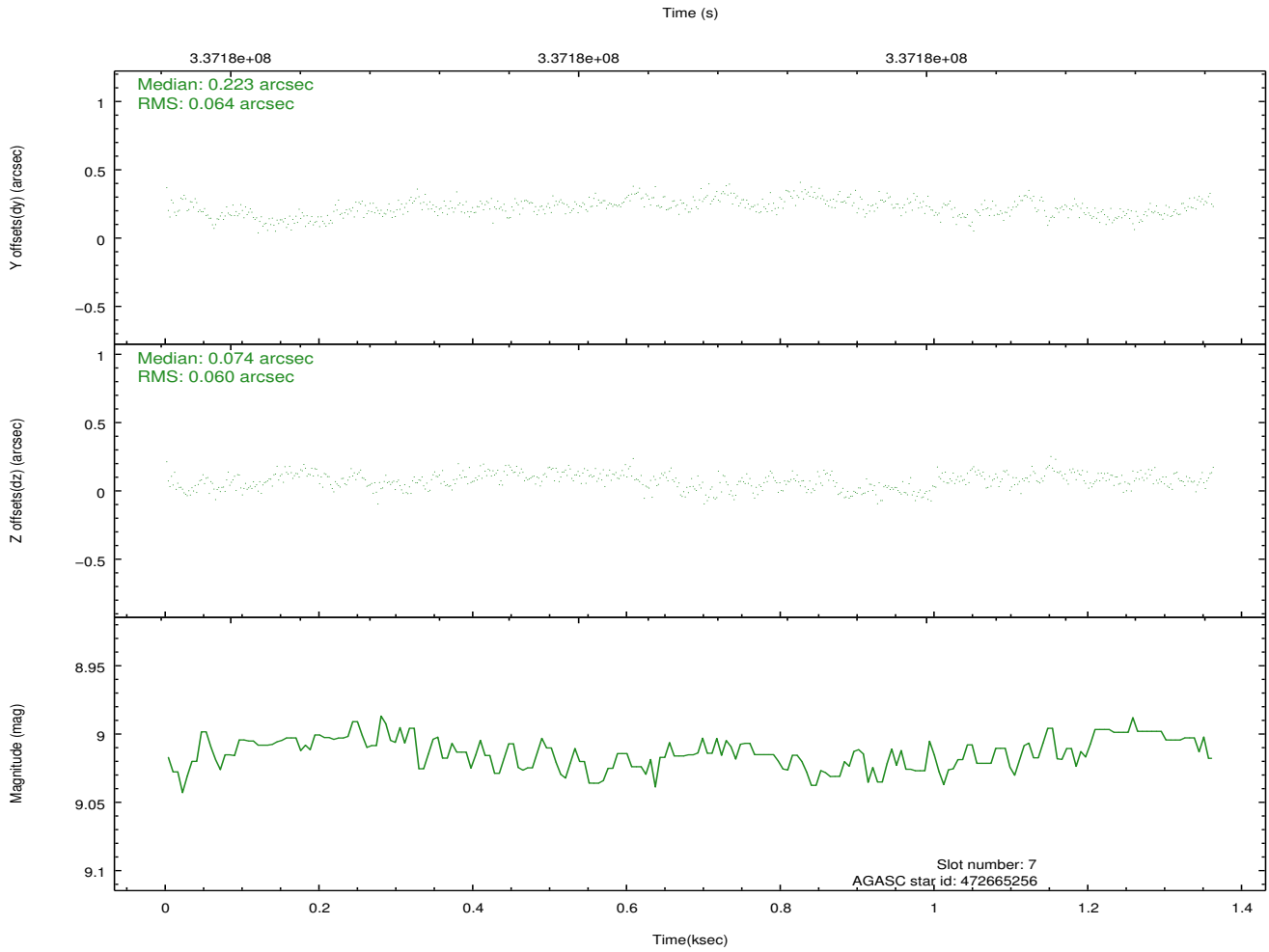
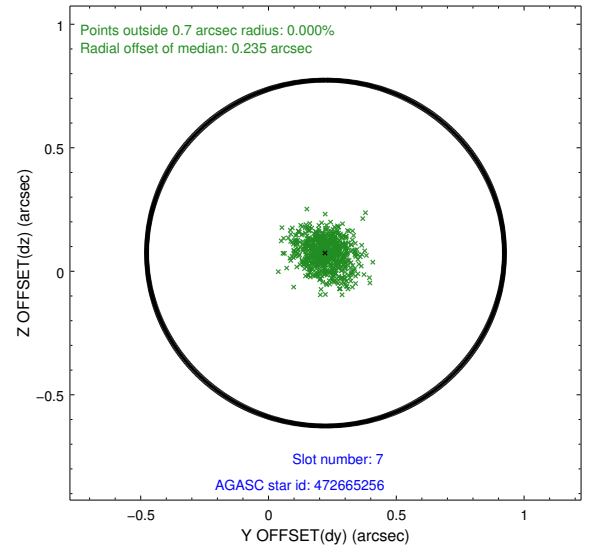
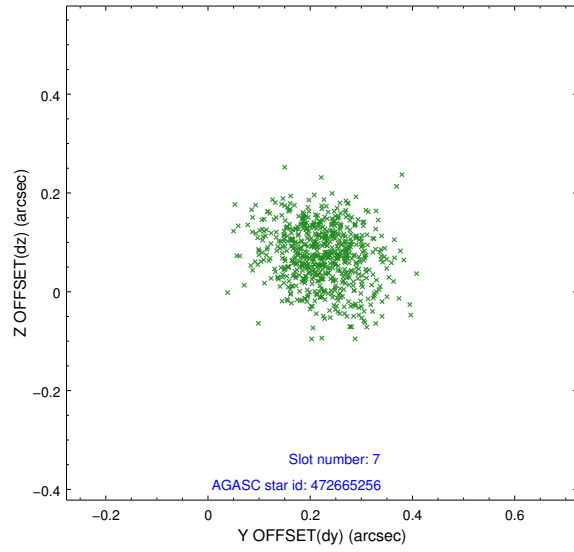
### 2.4.3 Slot 5



## 2.4.4 Slot 6

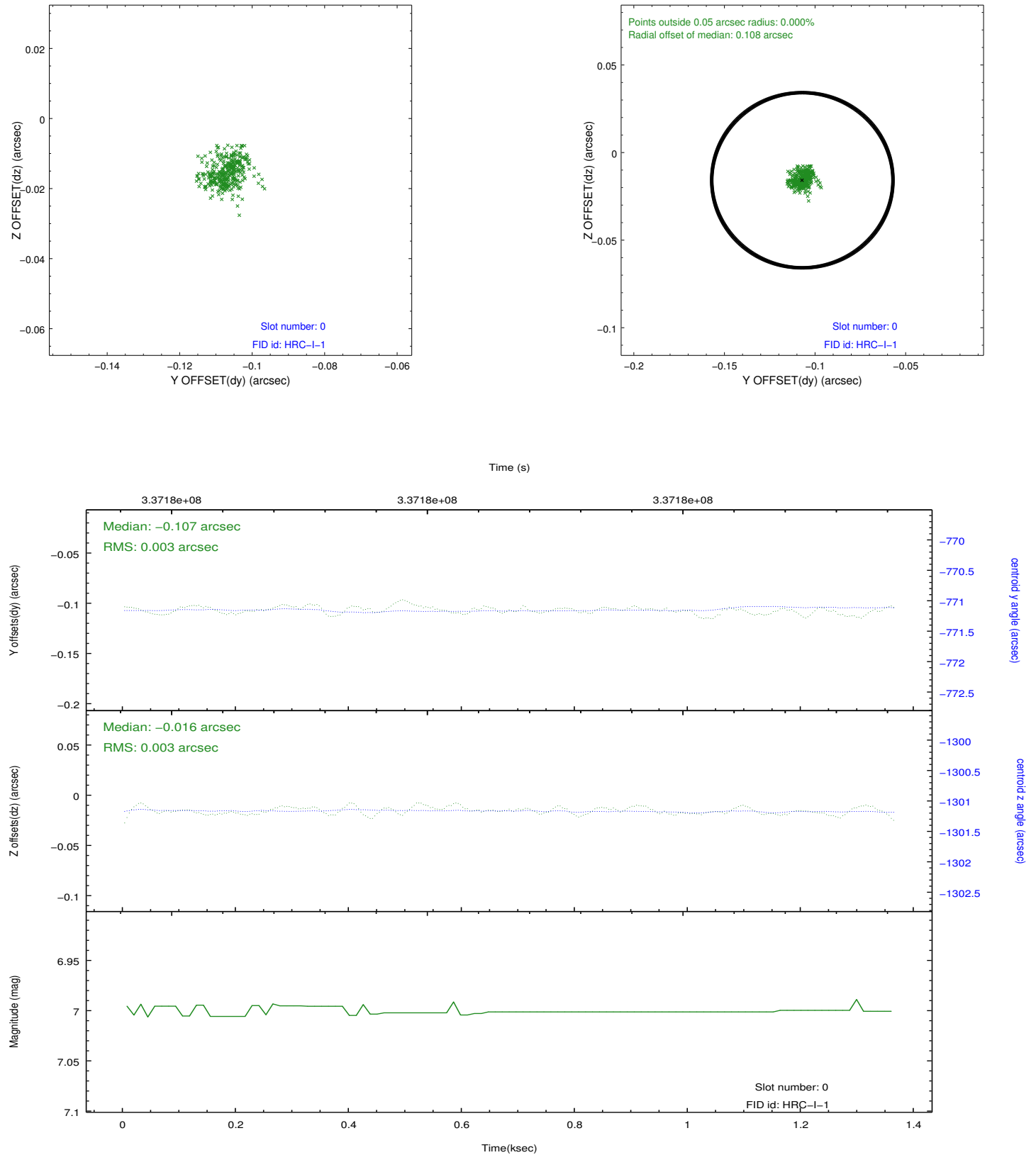


## 2.4.5 Slot 7

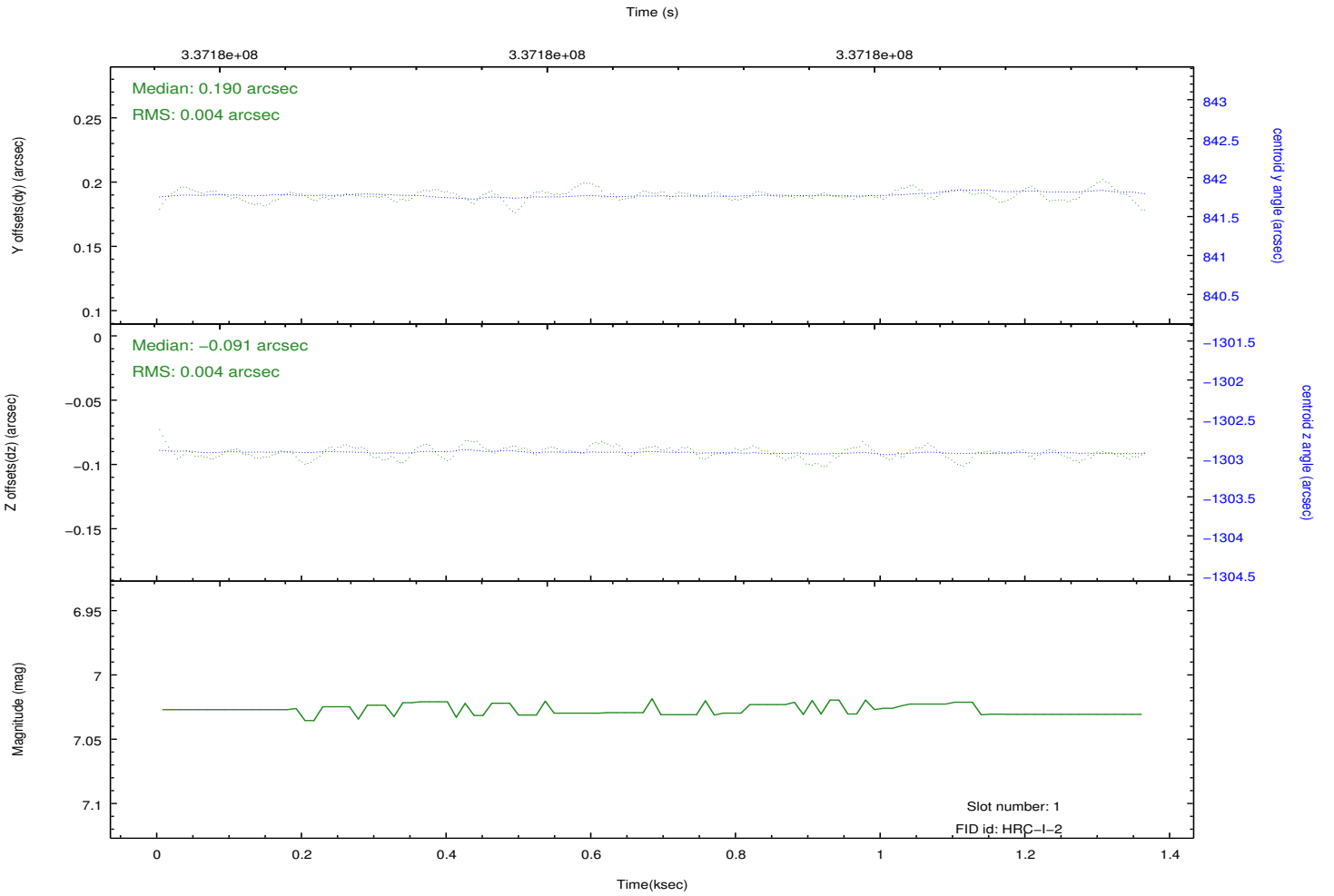
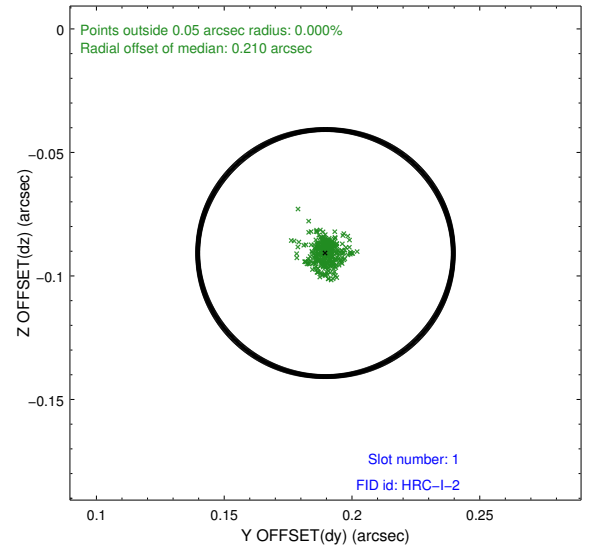
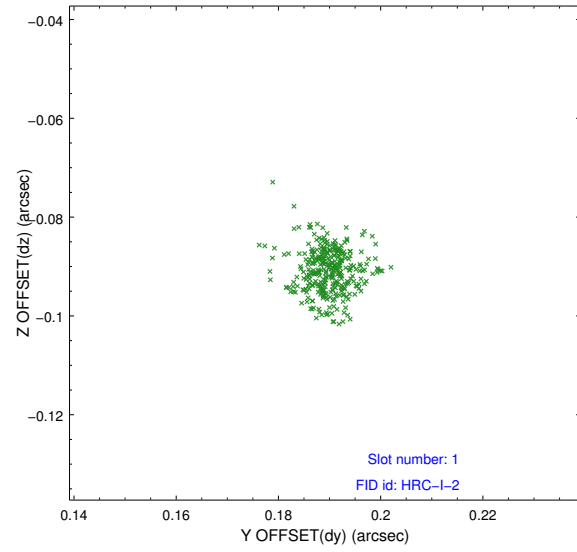


## 2.5 FID Slots

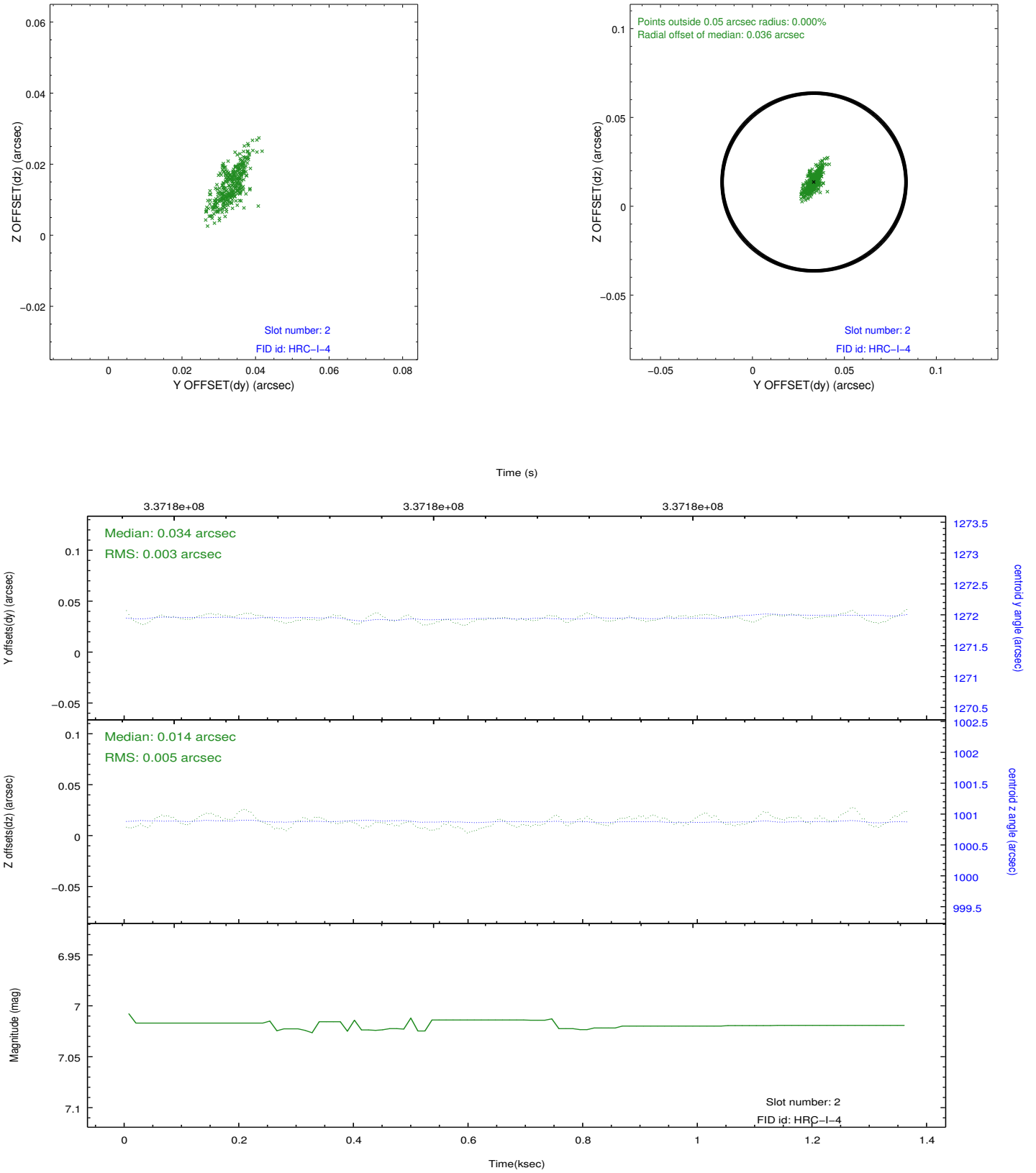
### 2.5.1 Slot 0



## 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)	2012.08.20
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.36222506

### A.2 Comments