

# V&V Reference Report

## L2 ASCDS Version : 8.5.1

Observation 6029 - L2 Version 3  
Chandra X-Ray Center

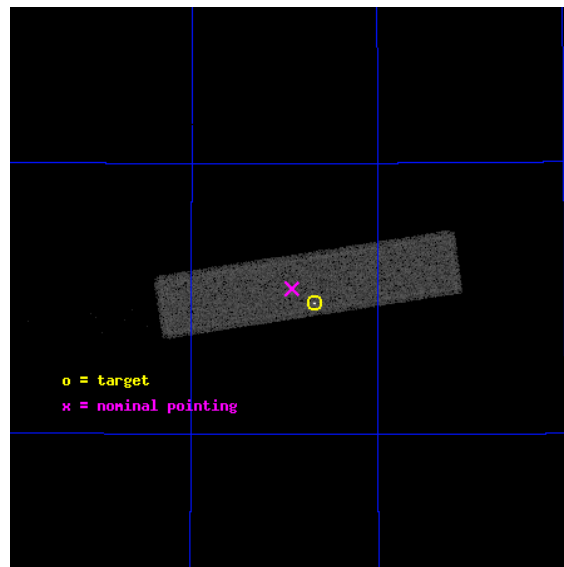
L2 Processing Date : Dec 17 2012

## 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

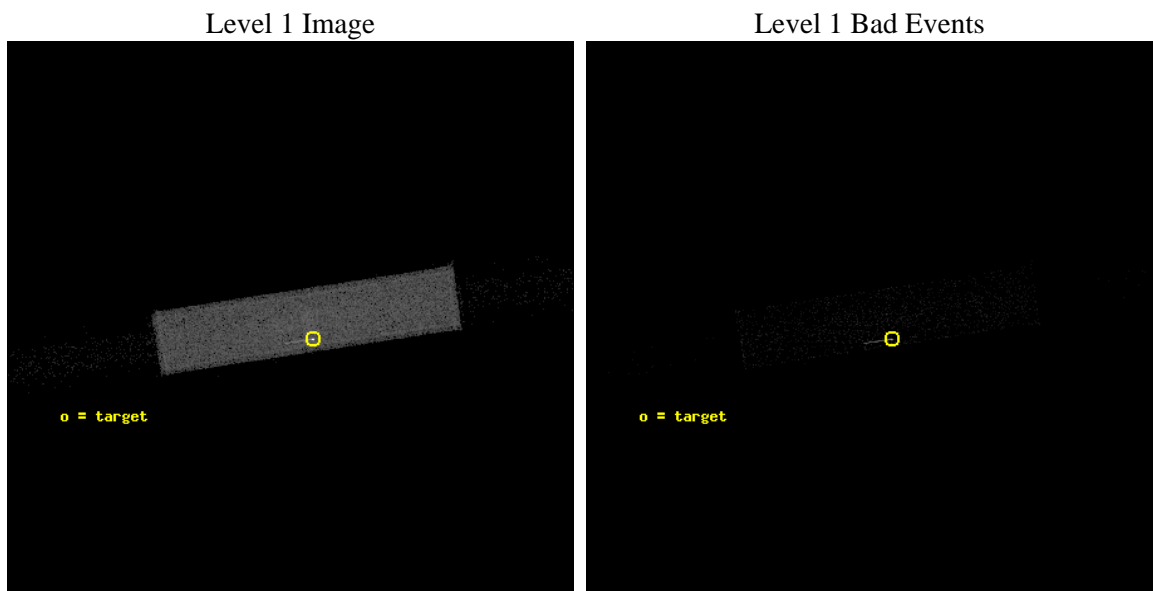
seq_num	290521	Sequence number
obs_id	6029	Observation id
title	AO6A Calibration Observations to Monitor the Spatial Variations in the HRC-S Gain	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.23058871191	Nominal RA [deg]
dec_nom	45.768811353437	Nominal Dec [deg]
roll_nom	351.22230442866	Nominal Roll [deg]
revision	3	Processing version of data
ontime	1151.3313021064	[s]
livetime	1144.5042938349	Ontime multiplied by DTCOR
l2events	47556	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	1000.000000	[s] Scheduled observation exposure time
ascdsver	8.5.1	Processing system revision	ontime	1151.3313021064	[s]
caldsver	4.5.5	&#160	l1events	77381	Number of level 1 events
date	2012-12-17T04:21:52	Date and time of file creation			
revision	3	Processing version of data			

### 2.1.3 Events

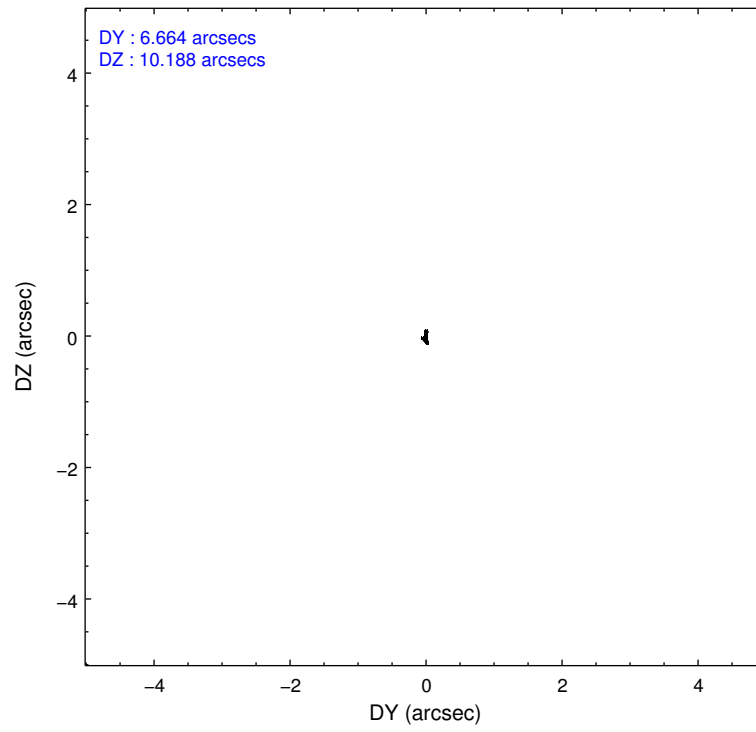
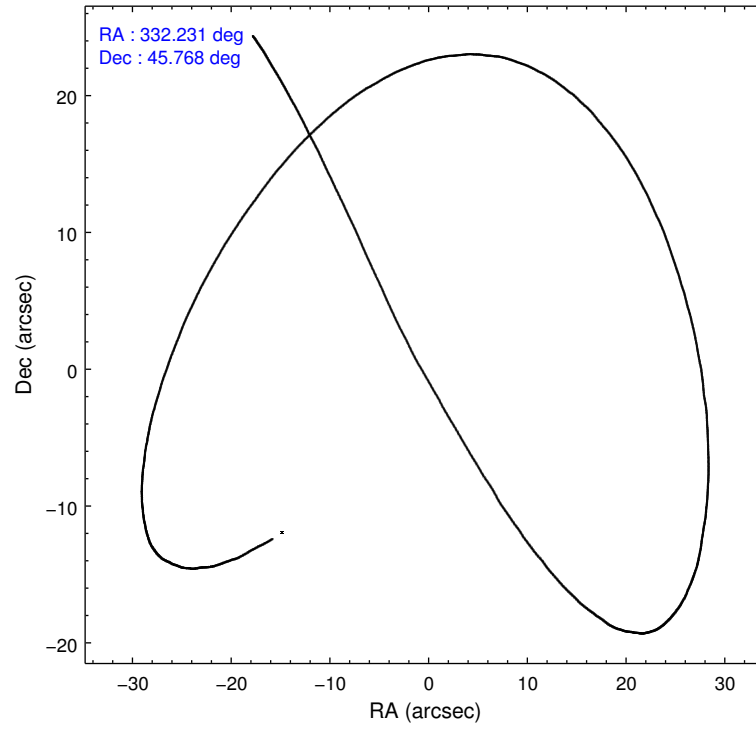
Level 1 Events

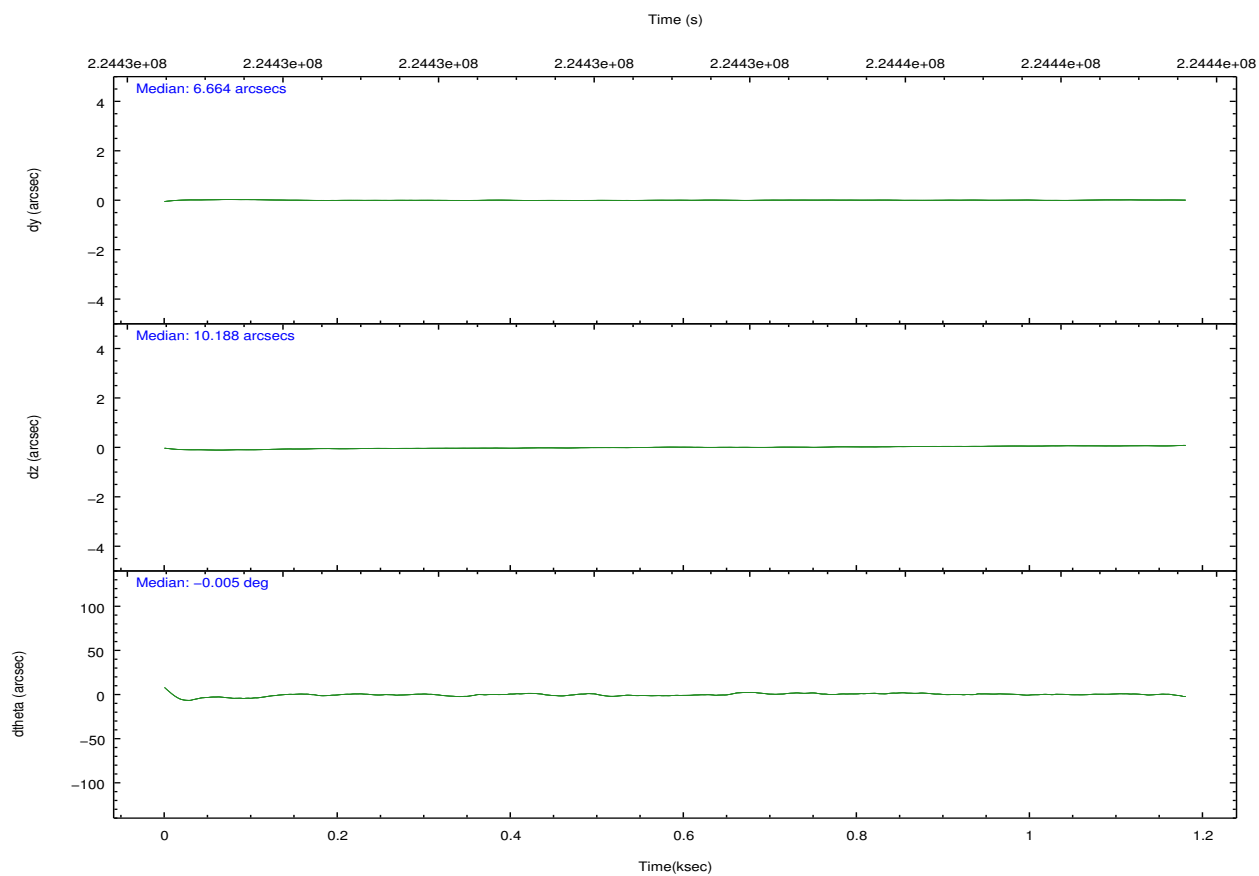
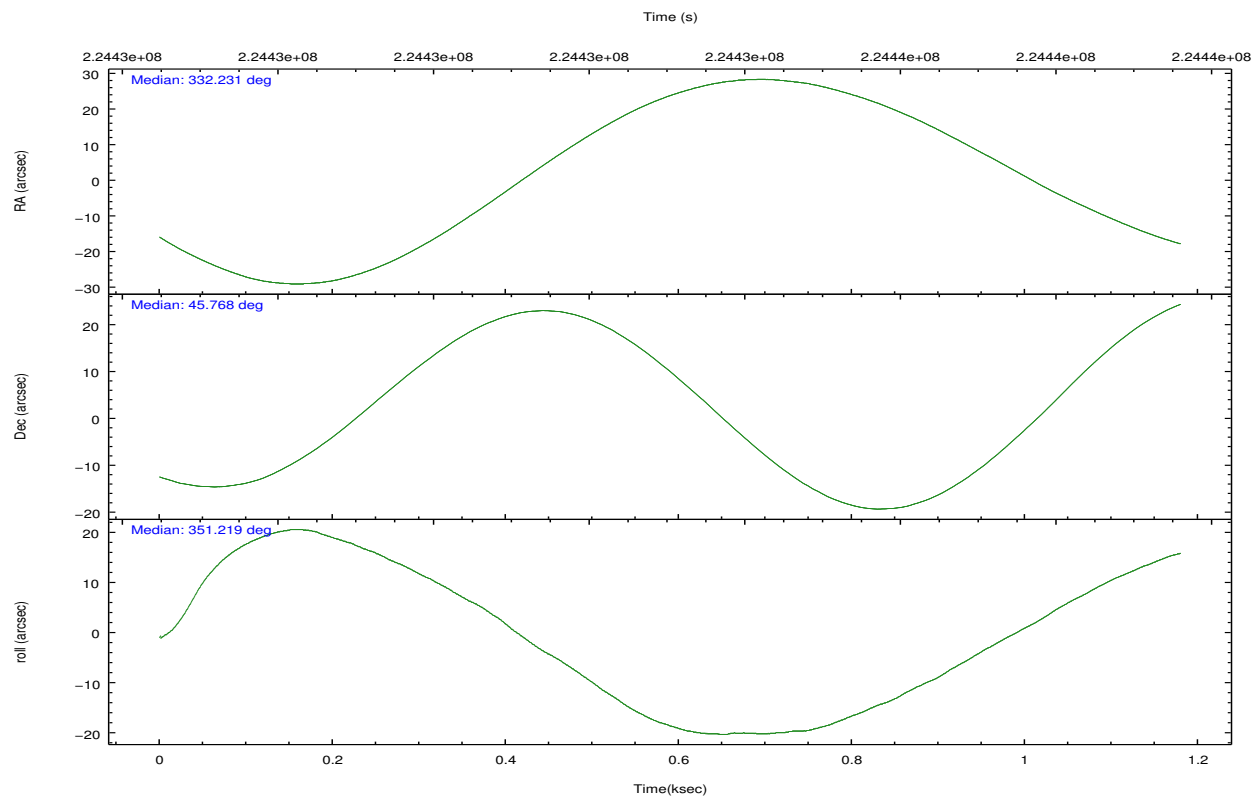
	<b>segment 1</b>	<b>segment 2</b>	<b>segment 3</b>
level 1 events	636	76078	667
rejected events	636	17662	643
rejected %	100%	23%	96%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	HRC	HRC	Obspar format version number	7	7
Detector	HRC-S	HRC-S	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	OBSERVING	OBSERVING			
Observation mode	POINTING	POINTING			
[deg] Pointing RA	332.193709	332.2305887119134			
[deg] Pointing Dec	45.757616	45.76881135343685			
[deg] Pointing Roll	351.181437	351.2223044286551			
[mm] SIM focus pos	-1.429586	-1.428180813131781			
[mm] SIM defocus	0.1037507710433287	0.1051558262725154			
[mm] SIM translation stage pos	250.455976	250.466033080201			
[mm] SIM translation stage offset	0	-0.01005468664627074			
[s] Observation start time (MET)	224434293.184000	224433916.45792			
Observation start date	2005-02-10T14:50:29	2005-02-10T14:45:16			
[s] Observation end time (MET)	224435293.184000	224435427.30798			
Observation end date	2005-02-10T15:07:09	2005-02-10T15:10:27			

## 2.3 Aspect





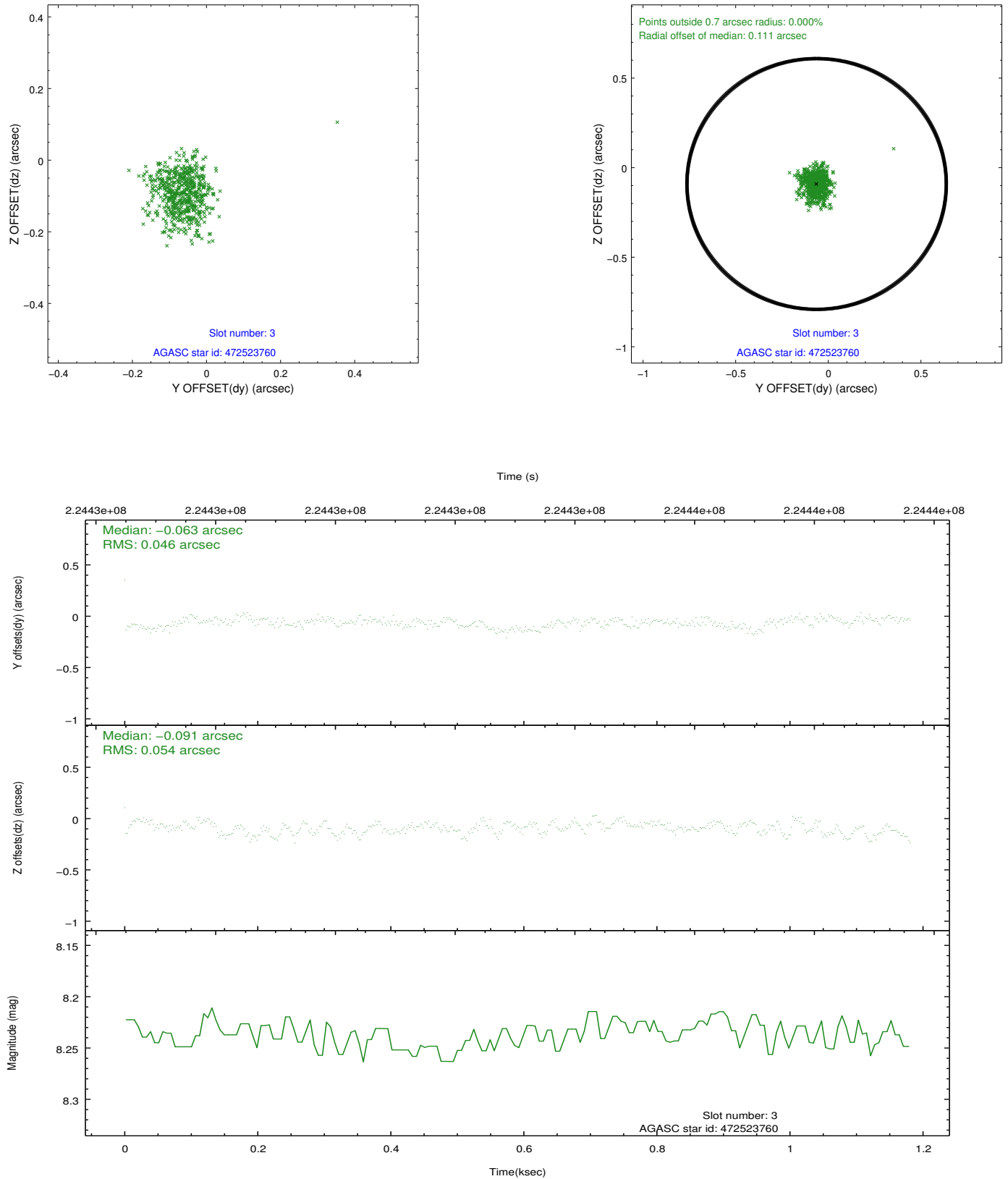
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-S-1	7.03	288	0.081	-0.121	0.005	0.009	0.000000	0.000000	-1160.84	-458.86
1	FID	HRC-S-2	7.02	288	0.143	-0.140	0.009	0.049	0.000000	0.000000	1234.87	-453.06
2	FID	HRC-S-4	6.99	288	0.179	-0.042	0.008	0.046	0.000000	0.000000	1241.78	571.80
3	GUIDE	472523760	8.24	577	-0.063	-0.091	0.073	0.117	331.645363	45.403260	-1173.70	-1466.39
4	GUIDE	472535576	7.85	577	-0.017	0.057	0.061	0.096	331.438373	46.291802	-2154.01	1620.74
5	GUIDE	472536328	8.14	577	-0.036	0.016	0.080	0.132	331.496671	46.454831	-2097.19	2227.74
6	GUIDE	472655152	9.42	577	0.192	0.007	0.112	0.184	332.504239	45.862991	708.57	501.81
7	GUIDE	472665256	9.01	576	-0.069	0.001	0.098	0.161	332.808125	46.195041	1272.81	1799.92

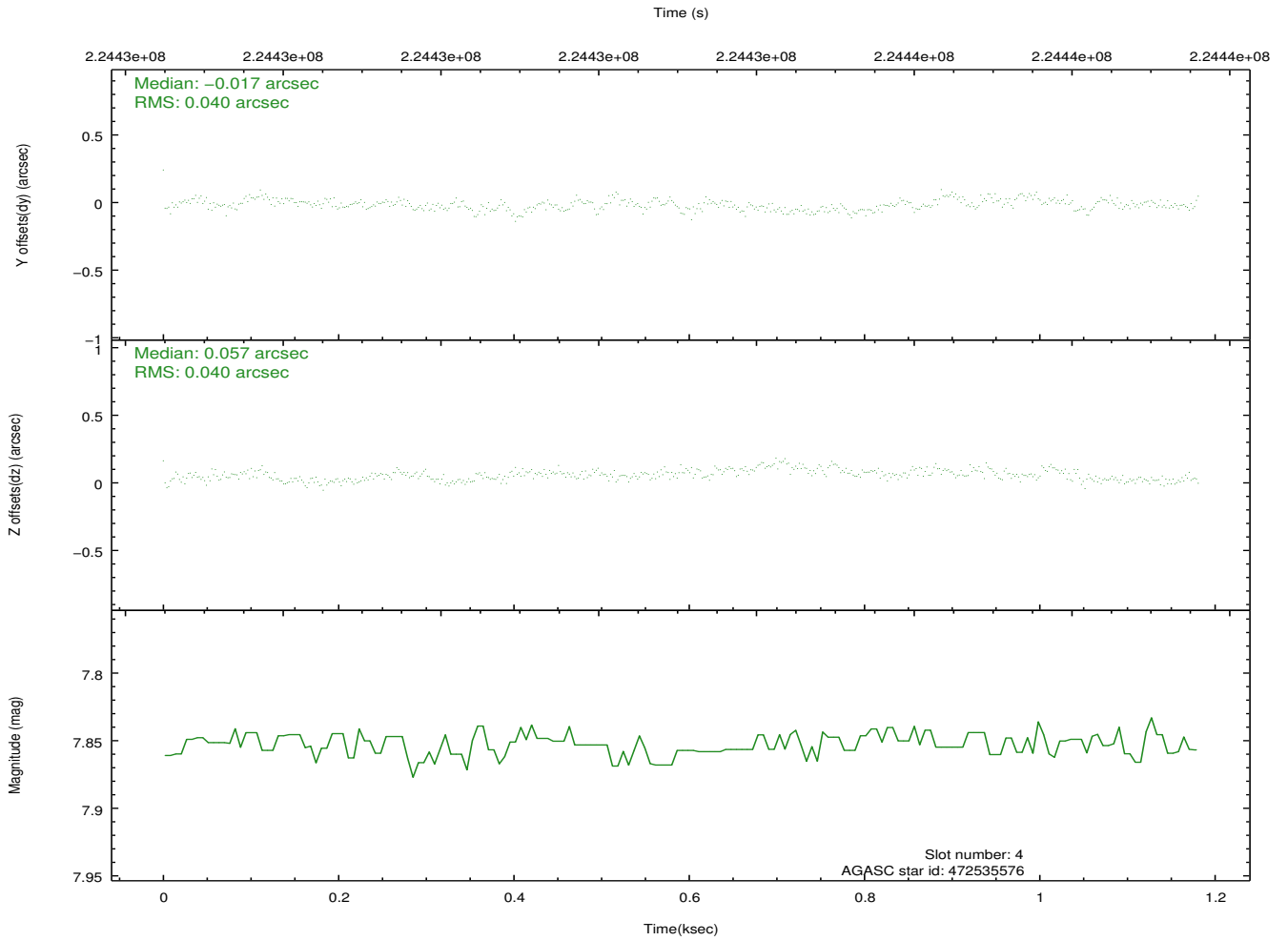
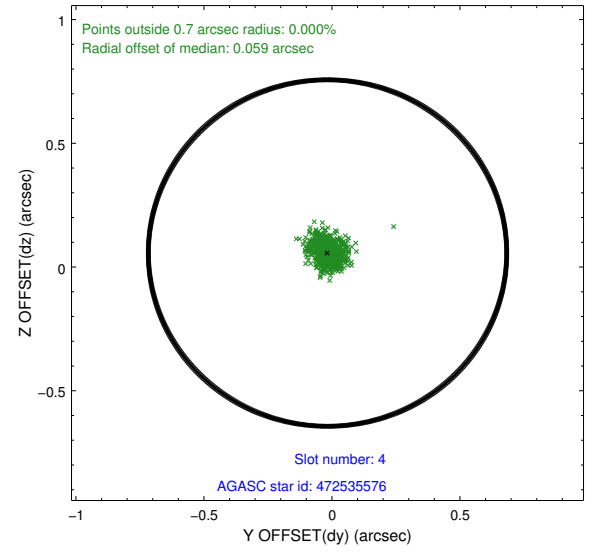
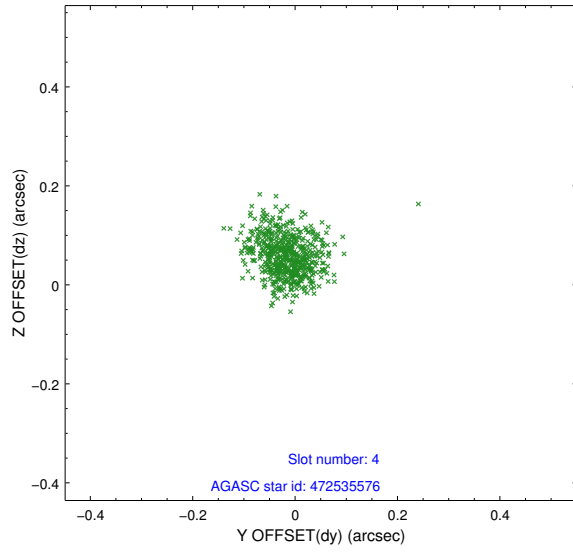


## 2.4 Star Slots

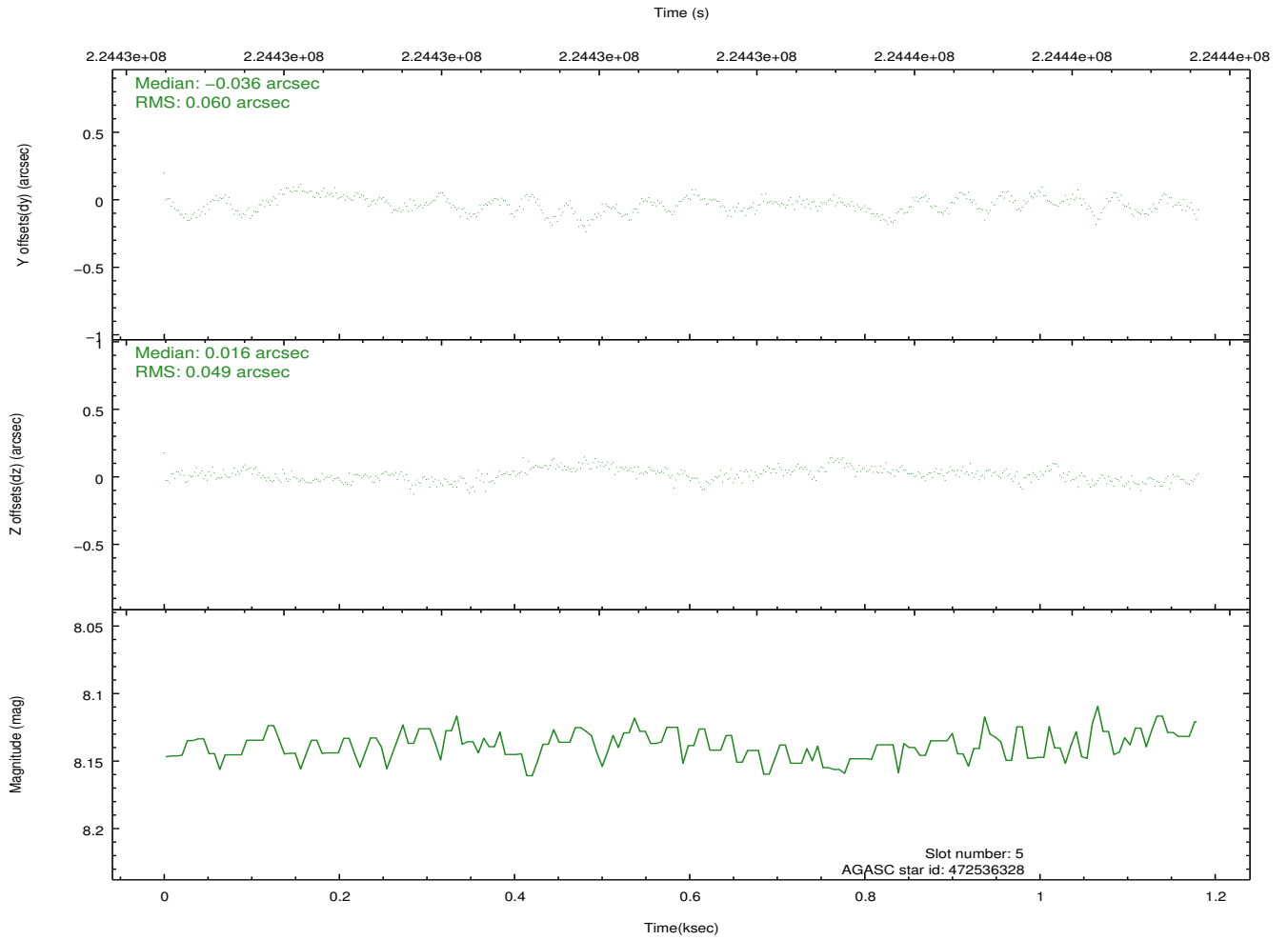
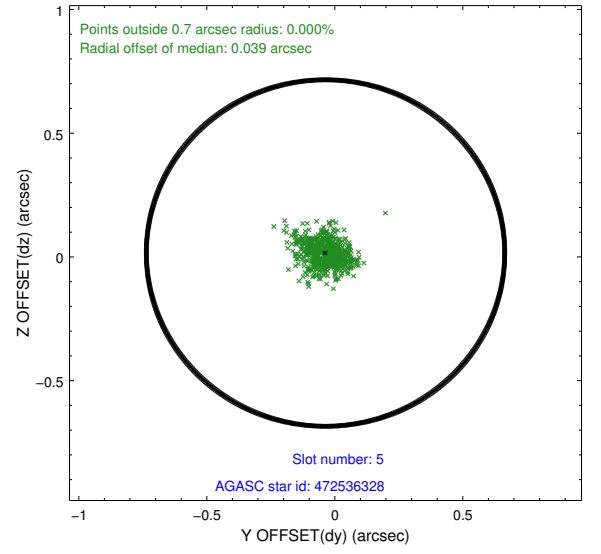
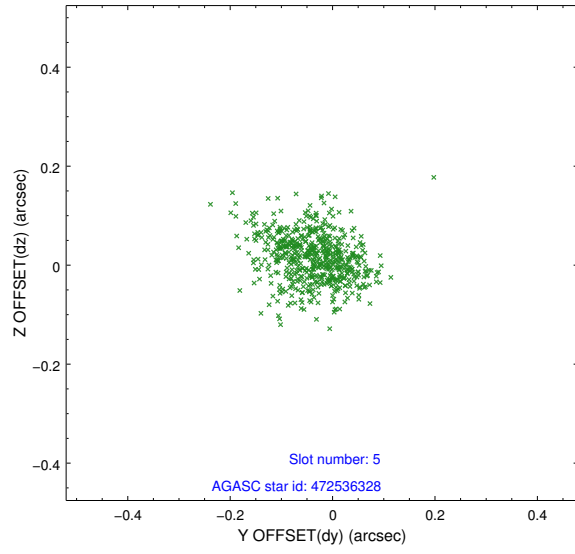
### 2.4.1 Slot 3



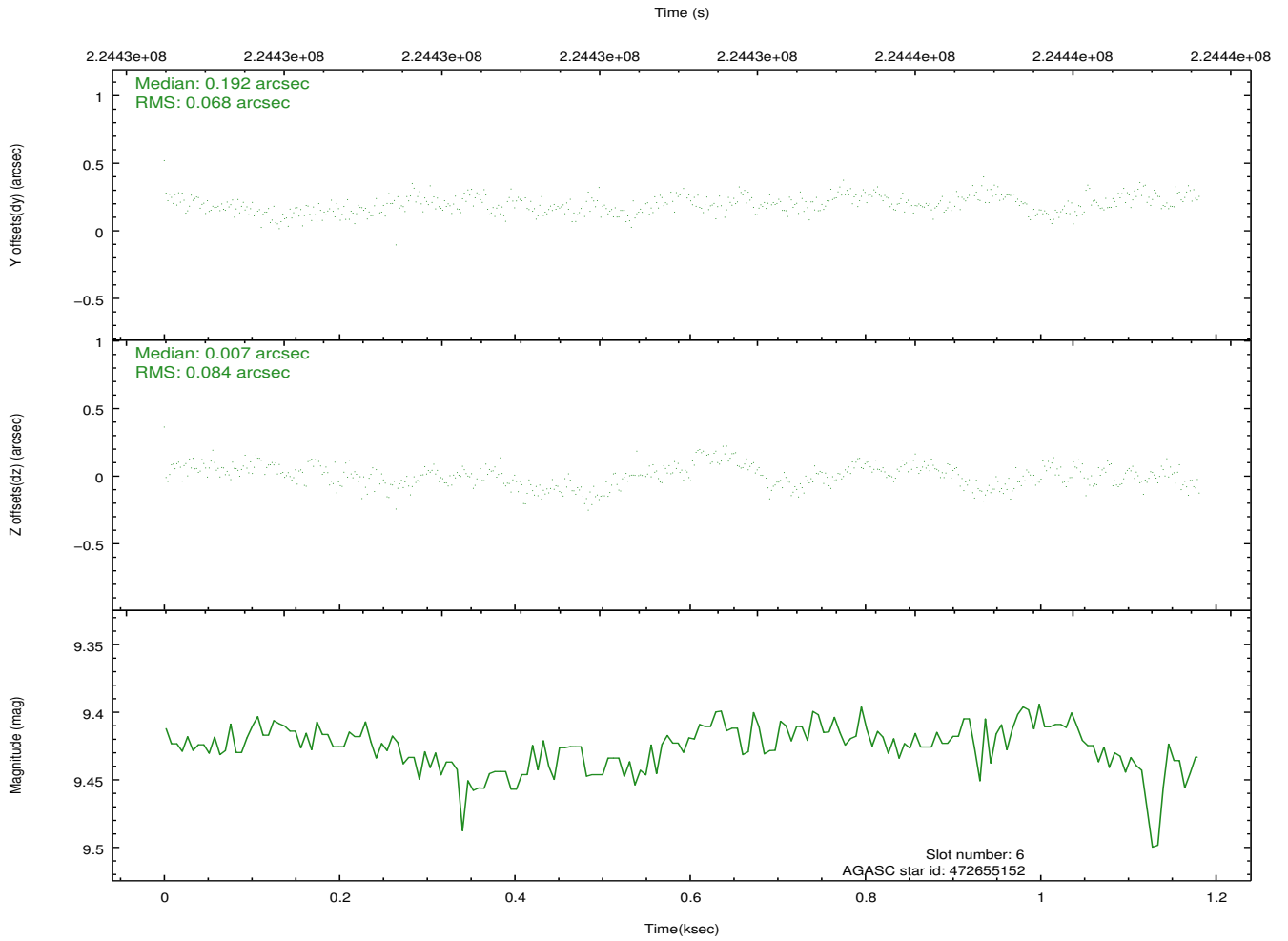
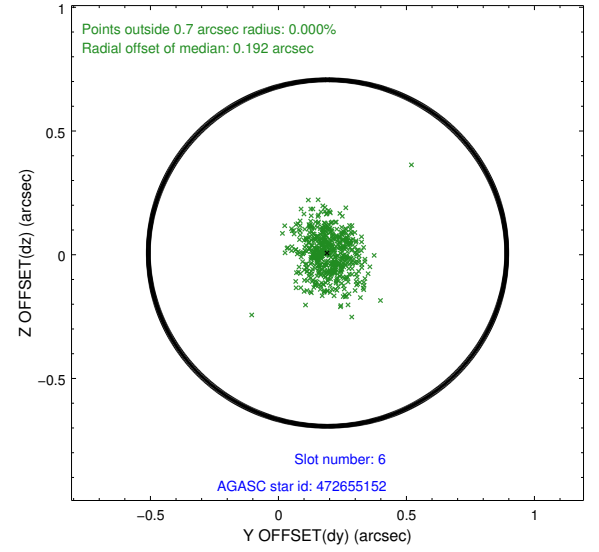
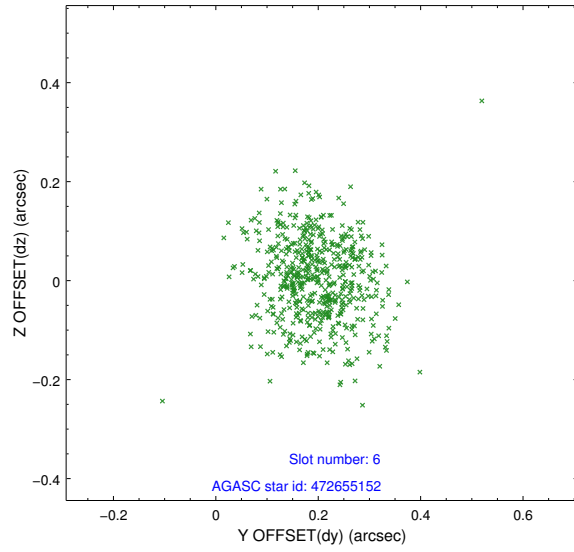
## 2.4.2 Slot 4



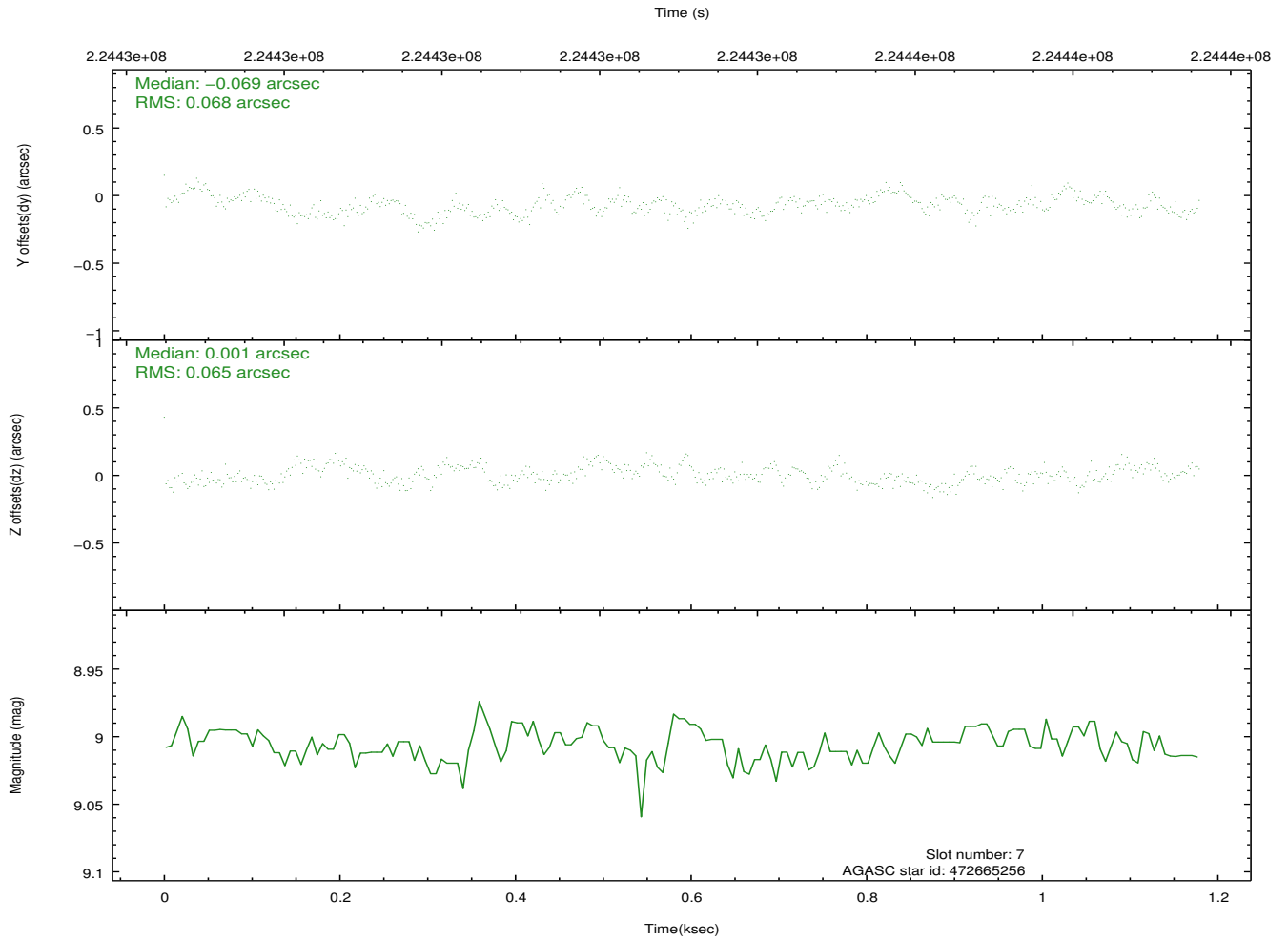
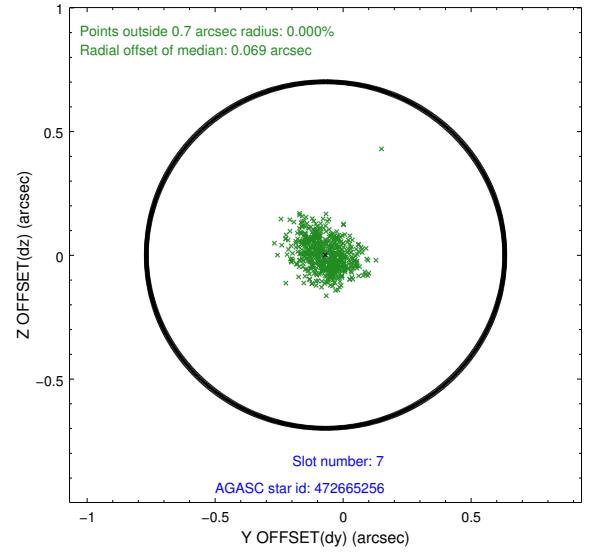
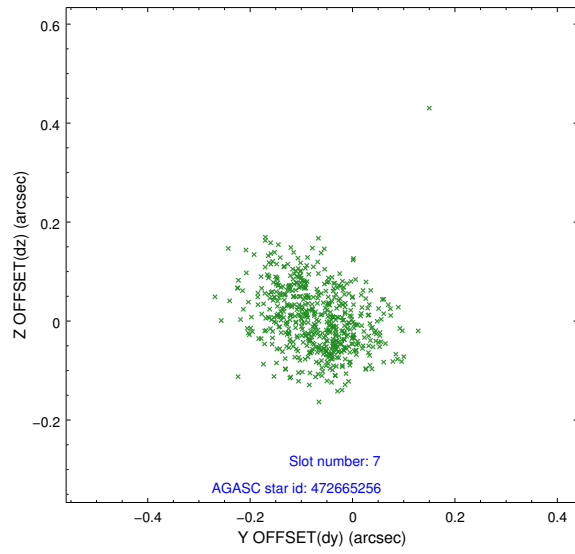
### 2.4.3 Slot 5



## 2.4.4 Slot 6

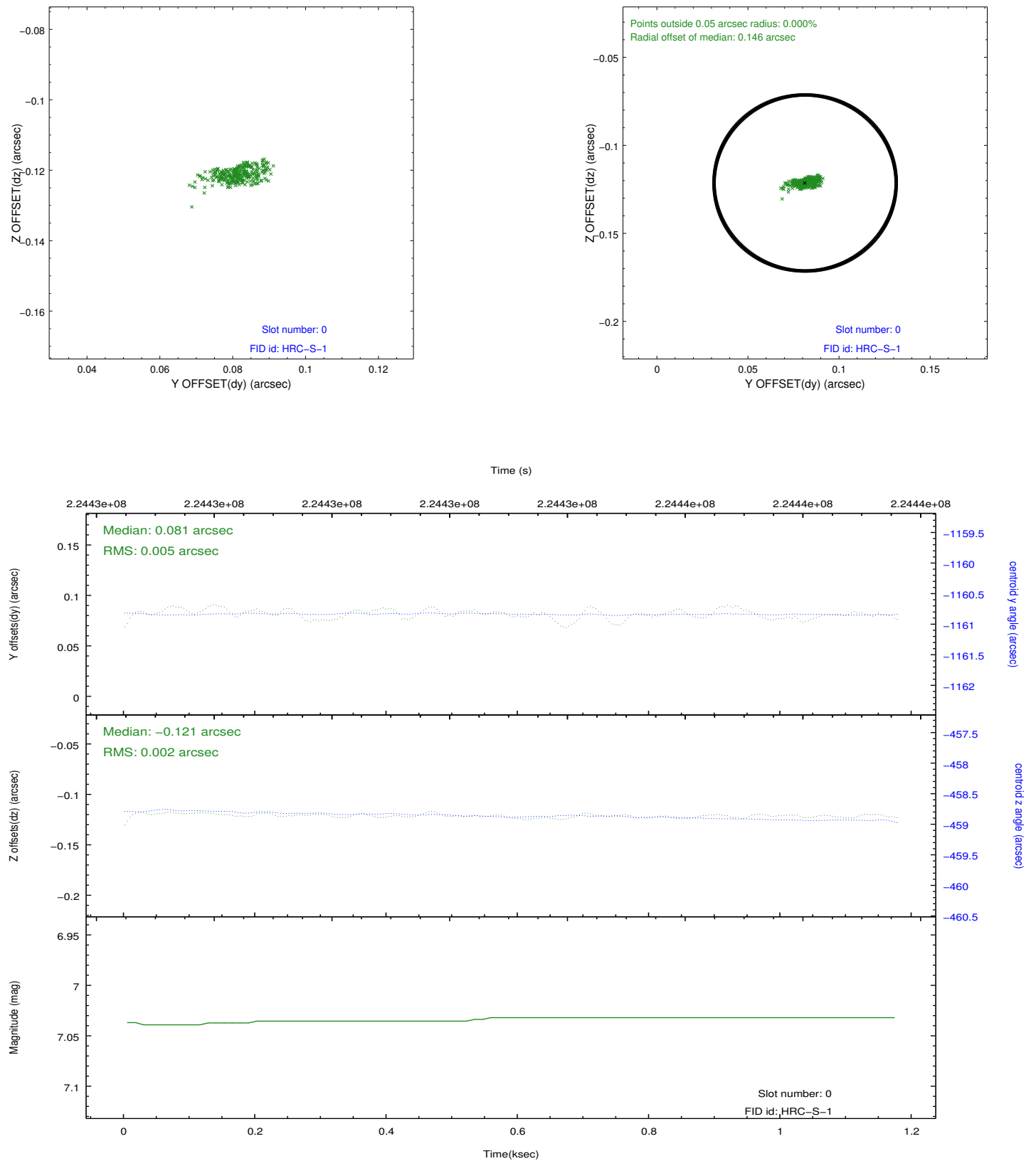


## 2.4.5 Slot 7

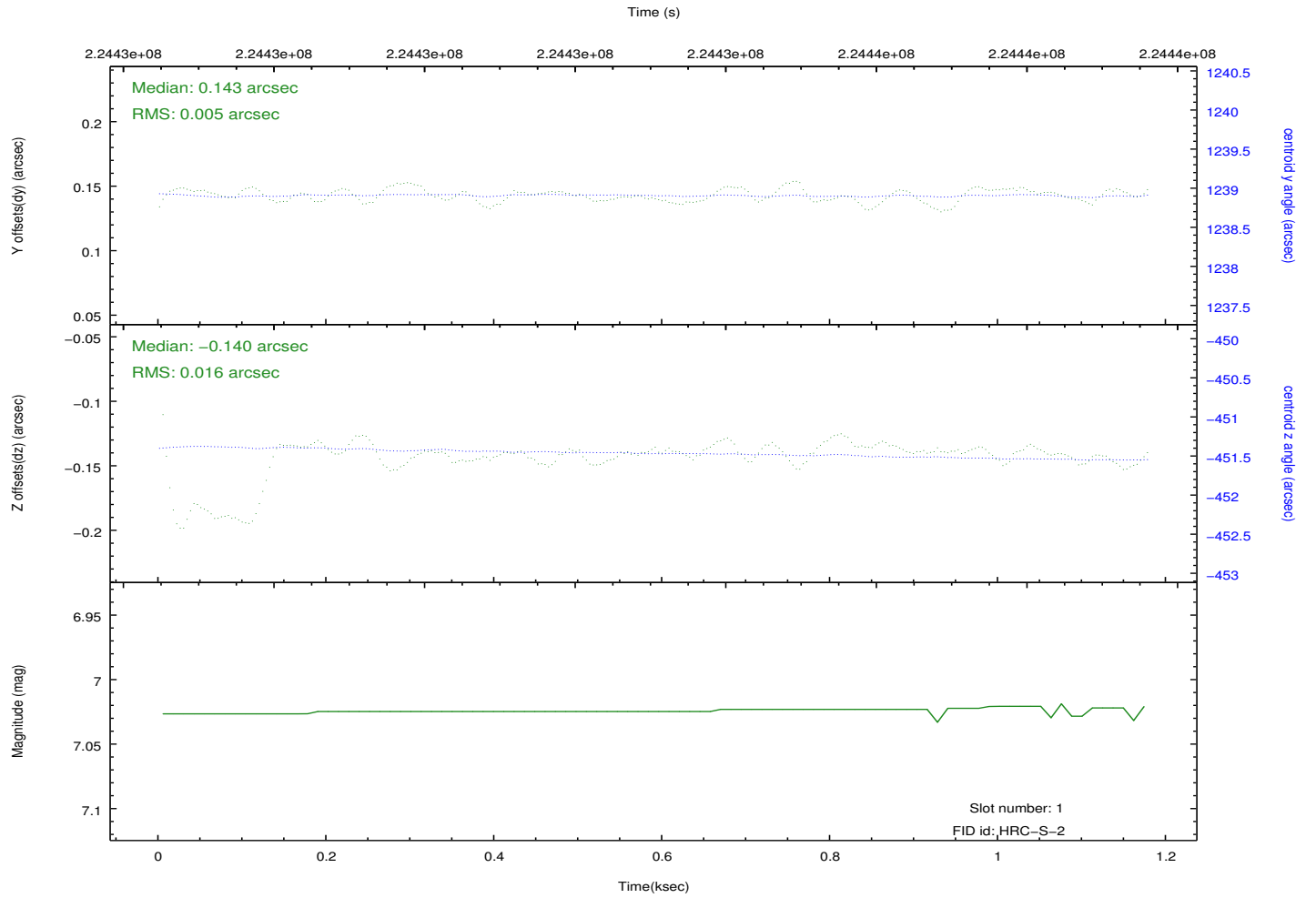
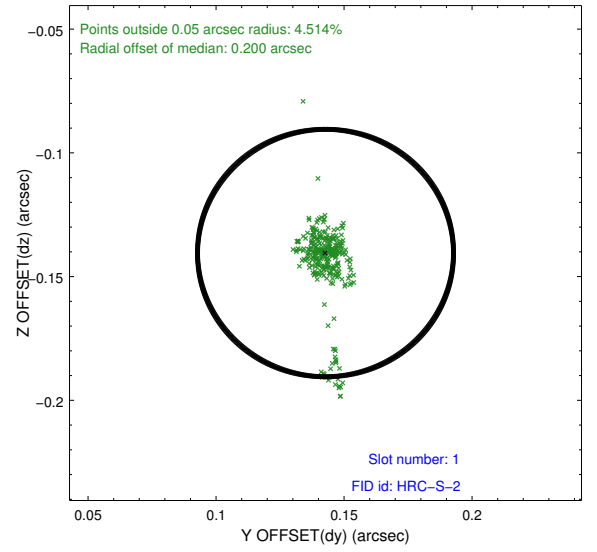
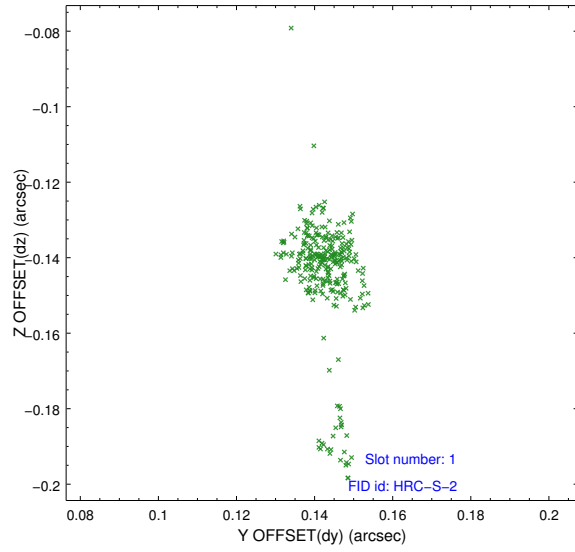


## 2.5 FID Slots

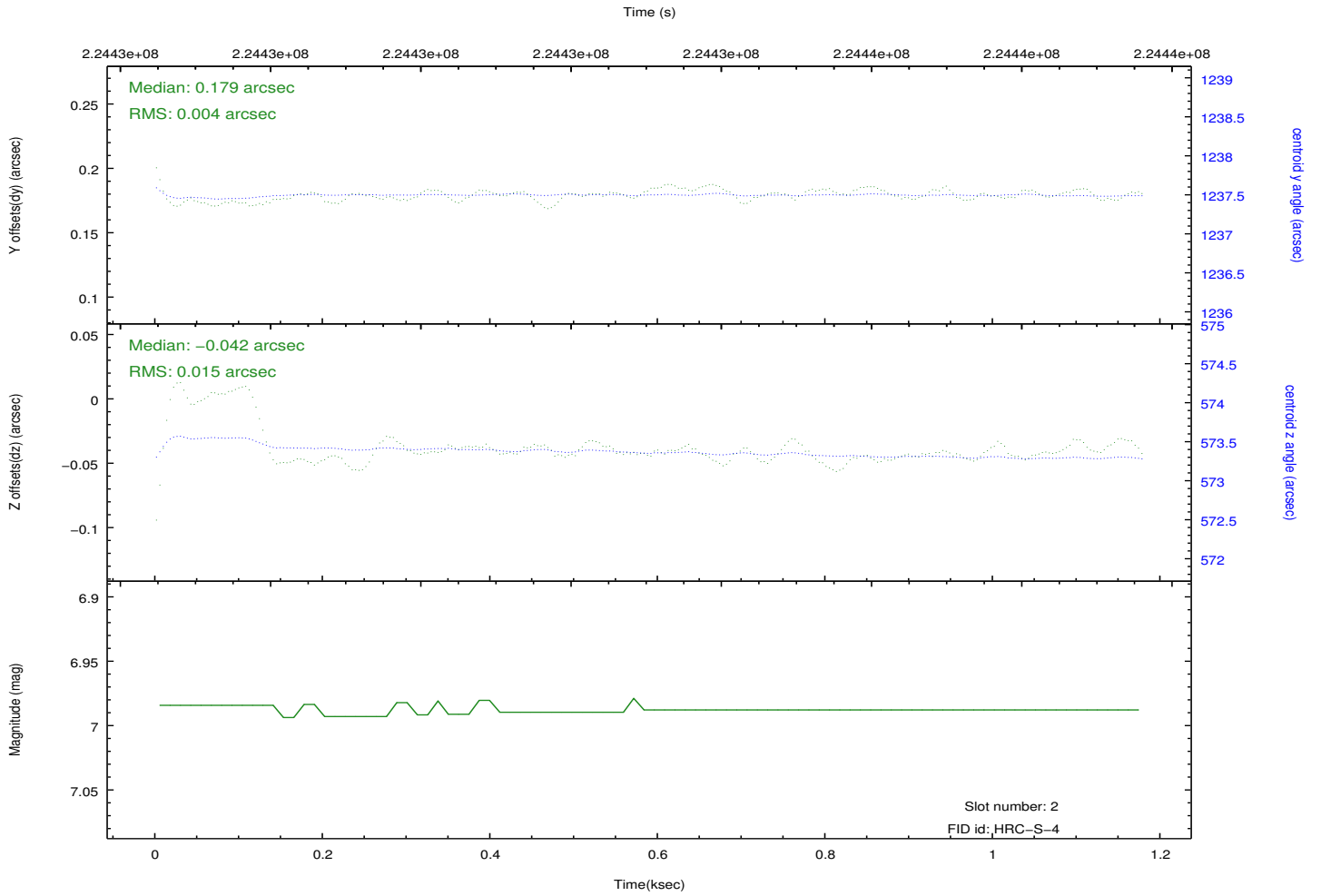
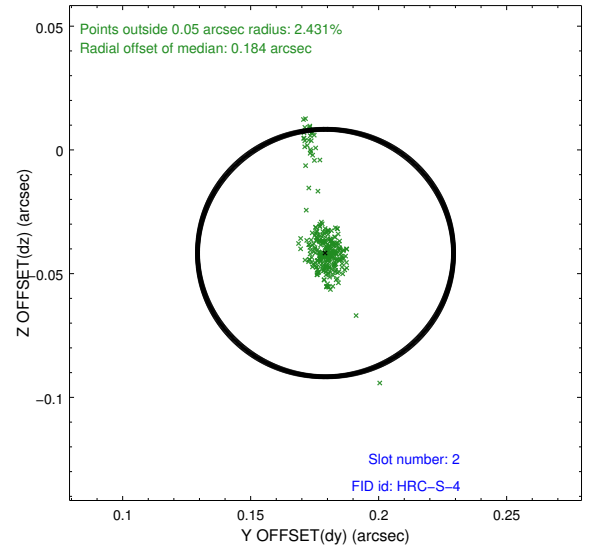
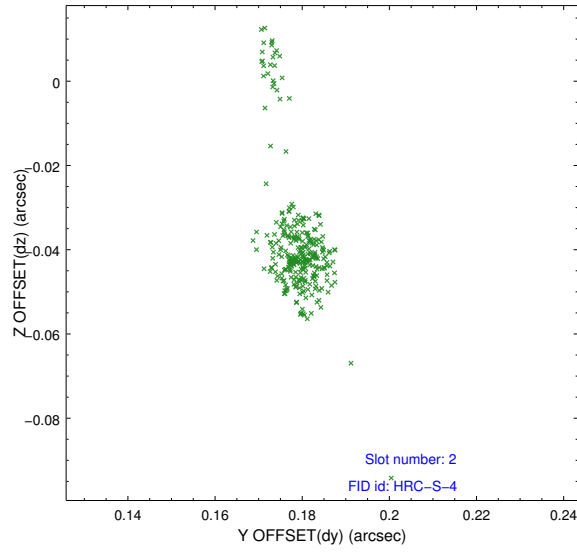
### 2.5.1 Slot 0



## 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)	2013.01.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.151331

### A.2 Comments