

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 10609 - L2 Version 3  
Chandra X-Ray Center

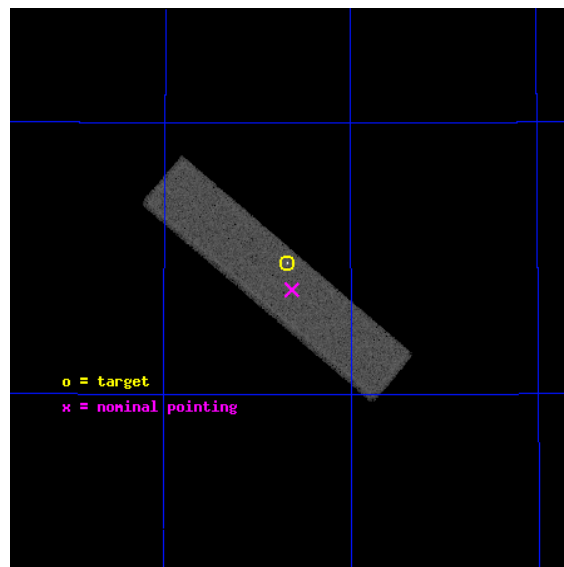
L2 Processing Date : Aug 13 2012

## 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

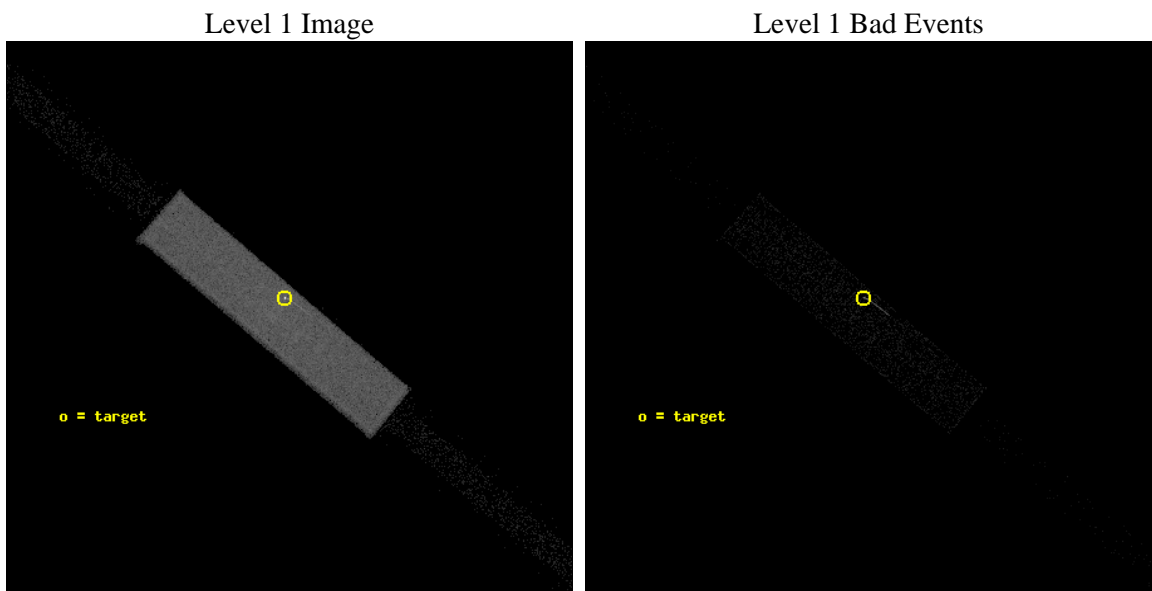
seq_num	290845	Sequence number
obs_id	10609	Observation id
title	AO-10 Calibration Observations to Monitor the Spatial Variations in the HRC-S Gain	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.1581866935	Nominal RA [deg]
dec_nom	45.692979884528	Nominal Dec [deg]
roll_nom	220.28216831961	Nominal Roll [deg]
revision	3	Processing version of data
ontime	1184.1313095093	[s]
livetime	1172.624737516	Ontime multiplied by DTCOR
l2events	83234	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	8.4.5	Processing system revision	ontime	1184.1313095093	[s]
caldsver	4.5.1.1	&#160	l1events	126817	Number of level 1 events
date	2012-08-13T17:24:36	Date and time of file creation			
revision	3	Processing version of data			

### 2.1.3 Events

Level 1 Events

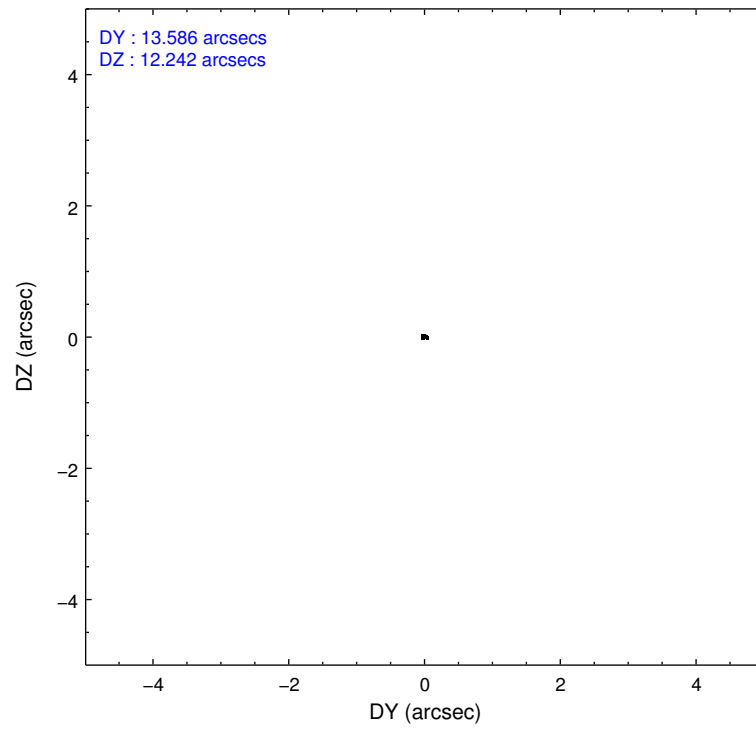
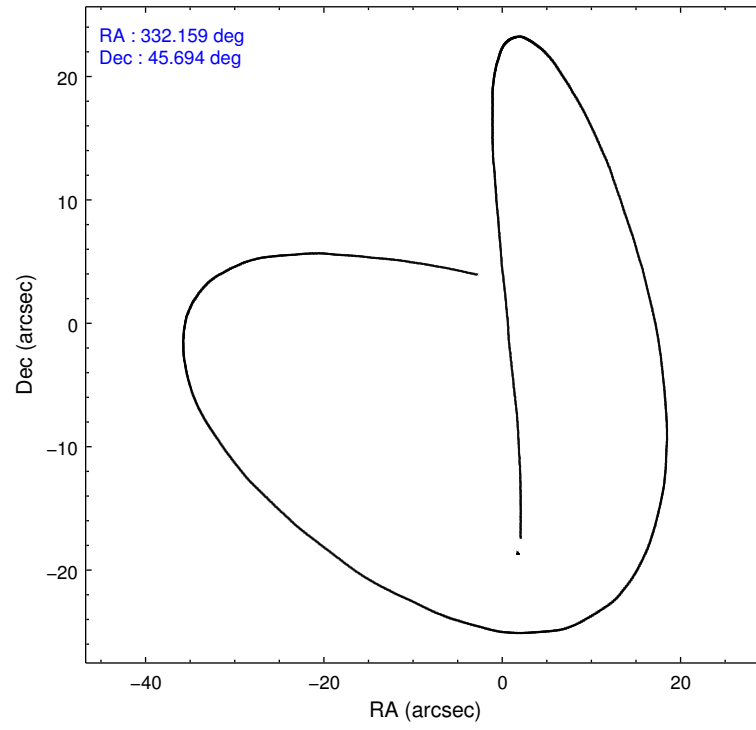
	segment 1	segment 2	segment 3
level 1 events	1111	124529	1177
rejected events	1111	25801	1177
rejected %	100%	20%	100%

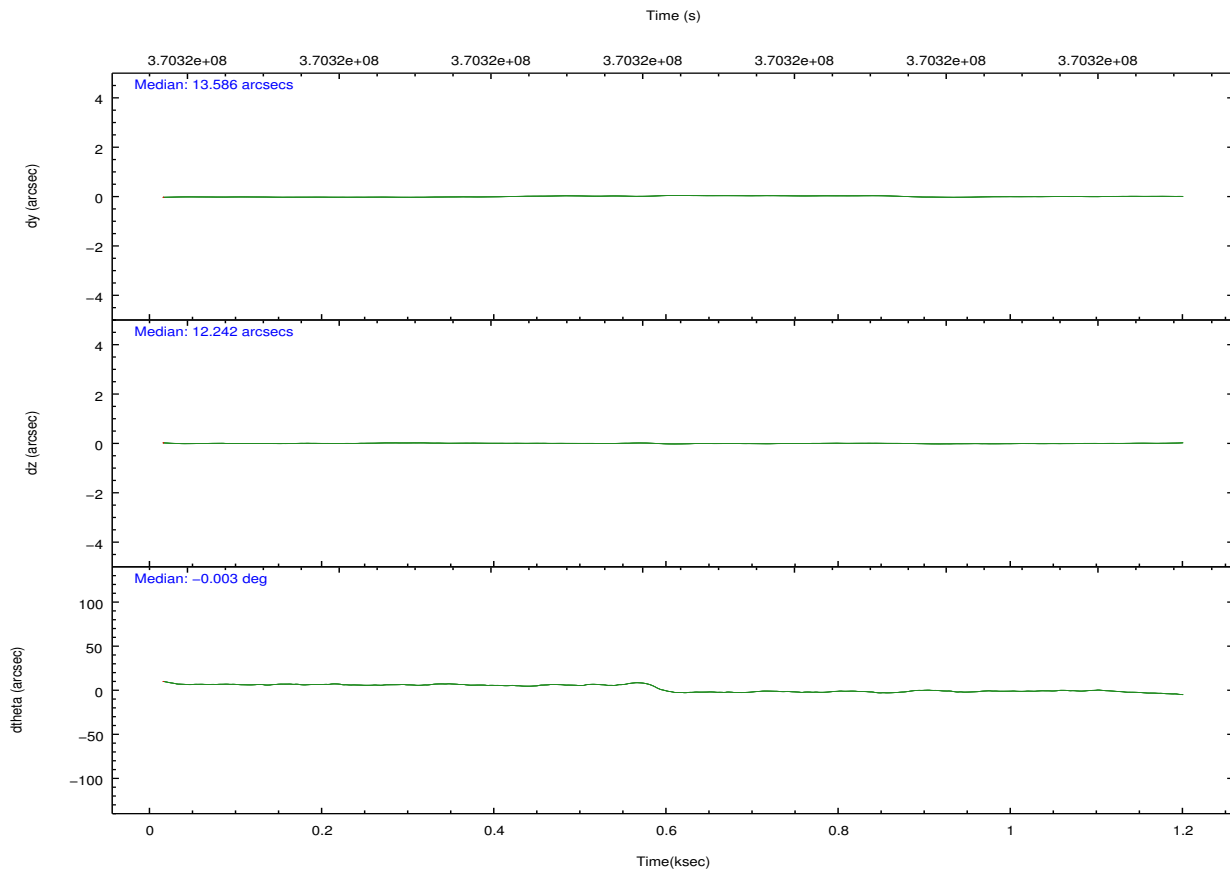
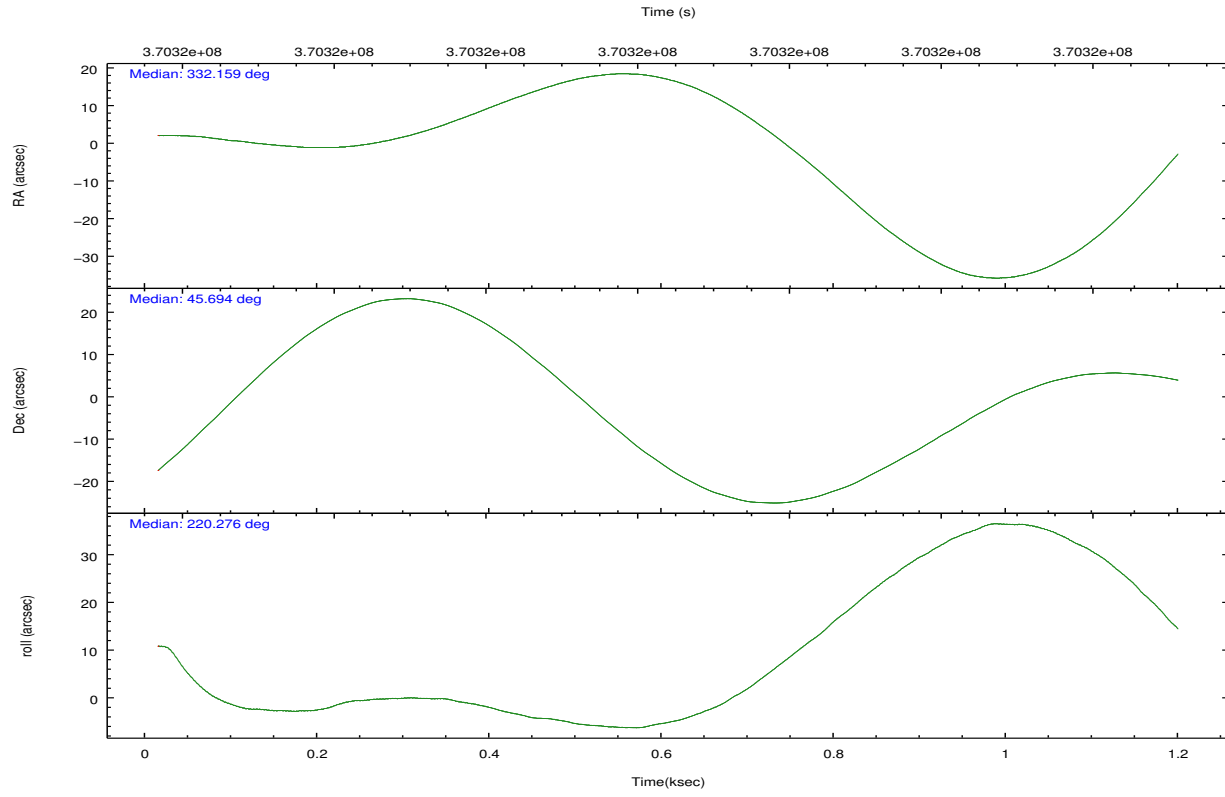
## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	HRC	HRC
Detector	HRC-S	HRC-S
Grating	NONE	NONE
Data mode	OBSERVING	OBSERVING
Observation mode	POINTING	POINTING
[deg] Pointing RA	332.171030	332.1581866934982
[deg] Pointing Dec	45.719776	45.69297988452821
[deg] Pointing Roll	220.205528	220.282168319613
[mm] SIM focus pos	-1.533336	-1.526339935833849
[mm] SIM defocus	7.710433287538843e-07	0.006996703570447904
[mm] SIM translation stage pos	250.455976	250.466033080201
[mm] SIM translation stage offset	0	-0.01005468664627074
[s] Observation start time (MET)	370317833.184000	370317457.17709
Observation start date	2009-09-26T02:02:47	2009-09-26T01:57:37
[s] Observation end time (MET)	370318833.184000	370318967.51466
Observation end date	2009-09-26T02:19:27	2009-09-26T02:22:47

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED

## 2.3 Aspect





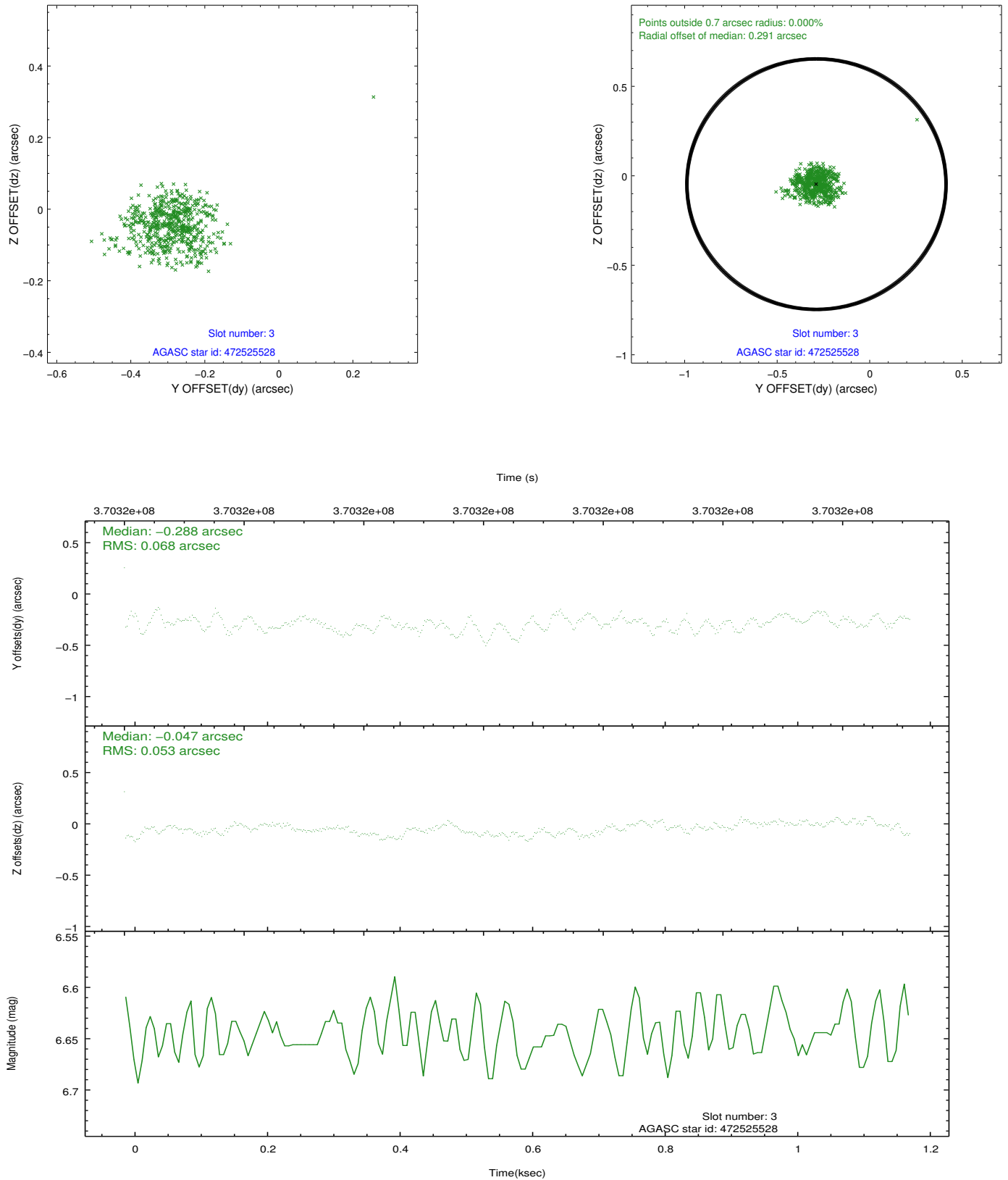
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-S-1	6.99	290	0.007	-0.151	0.006	0.010	0.000000	0.000000	-1168.03	-460.98
1	FID	HRC-S-2	6.98	290	0.147	-0.066	0.061	0.072	0.000000	0.000000	1227.74	-455.14
2	FID	HRC-S-4	6.92	289	0.249	-0.085	0.061	0.071	0.000000	0.000000	1234.71	569.52
3	GUIDE	472525528	6.65	579	-0.288	-0.047	0.089	0.136	331.551102	45.248694	2290.74	280.15
4	GUIDE	472533912	9.15	578	-0.013	0.052	0.141	0.227	331.791136	46.368695	-784.52	-2390.87
5	GUIDE	472655152	9.43	579	-0.021	-0.155	0.120	0.203	332.504239	45.862991	-973.08	143.68
6	GUIDE	472661712	10.03	576	0.250	-0.008	0.178	0.300	331.914954	46.059715	-303.27	-1344.39
7	GUIDE	472665256	9.02	573	0.089	0.176	0.083	0.134	332.808125	46.195041	-2321.13	-285.35

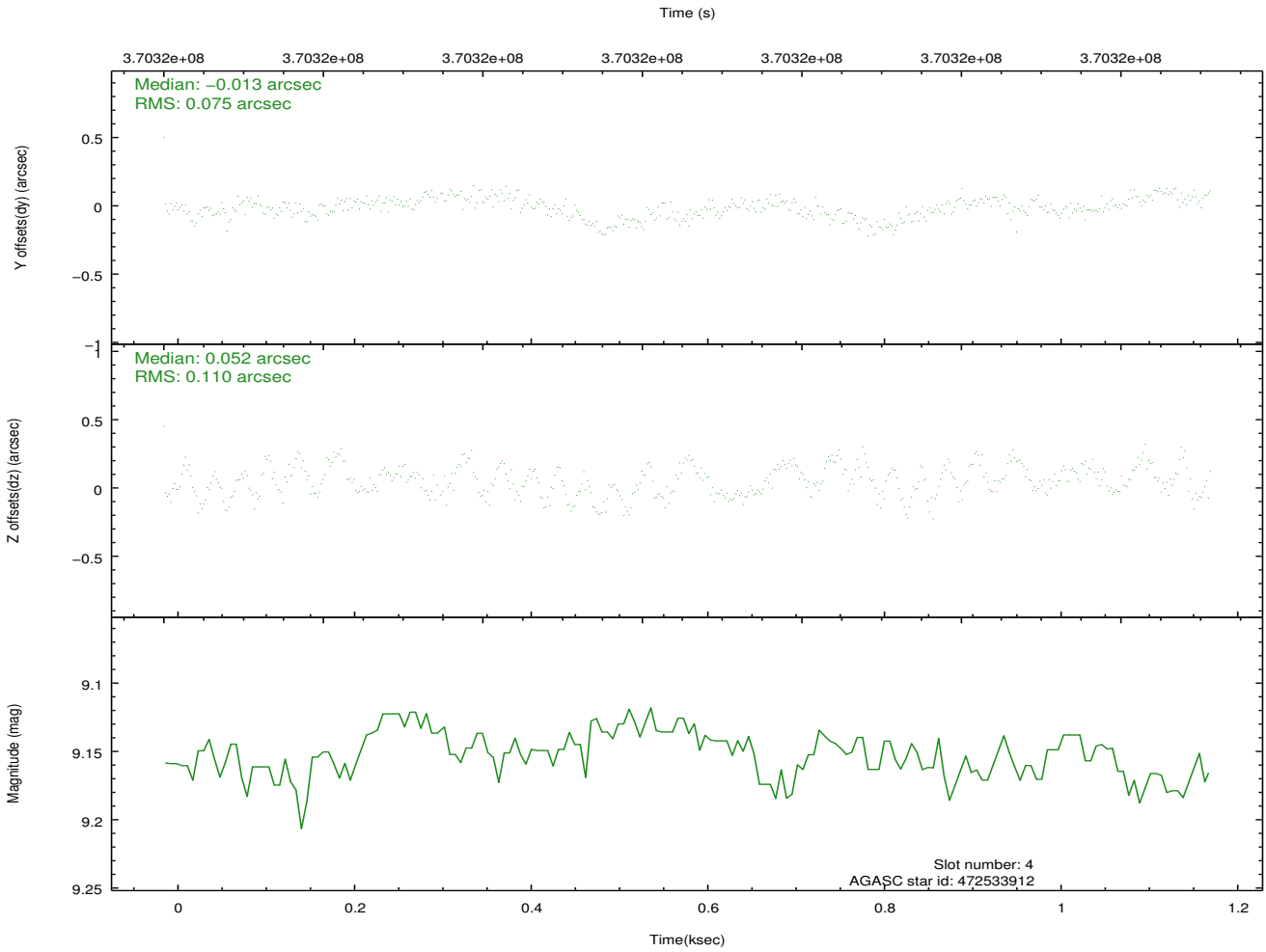
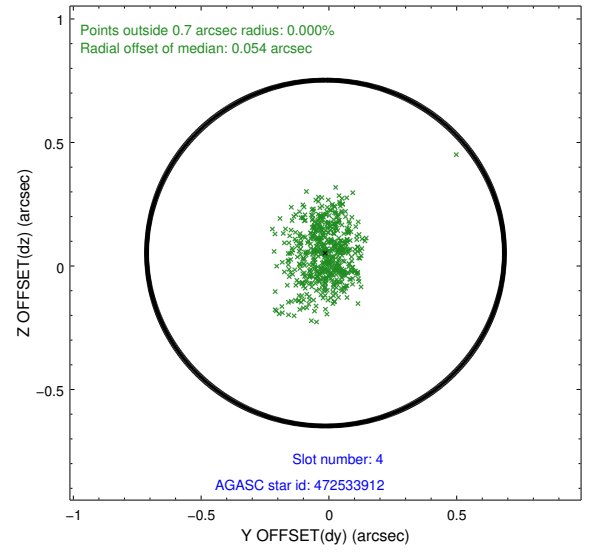
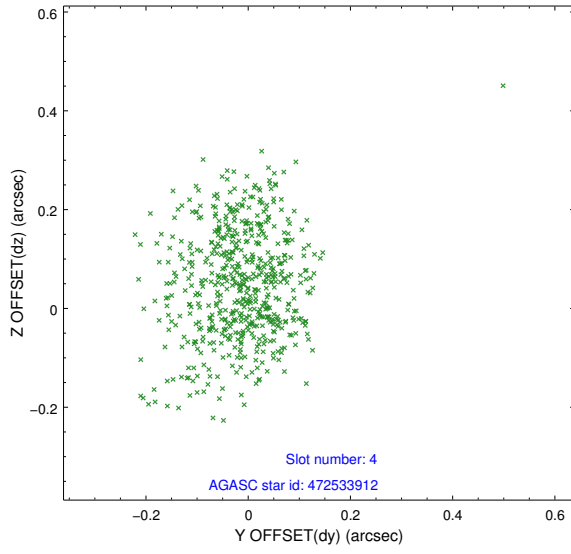


## 2.4 Star Slots

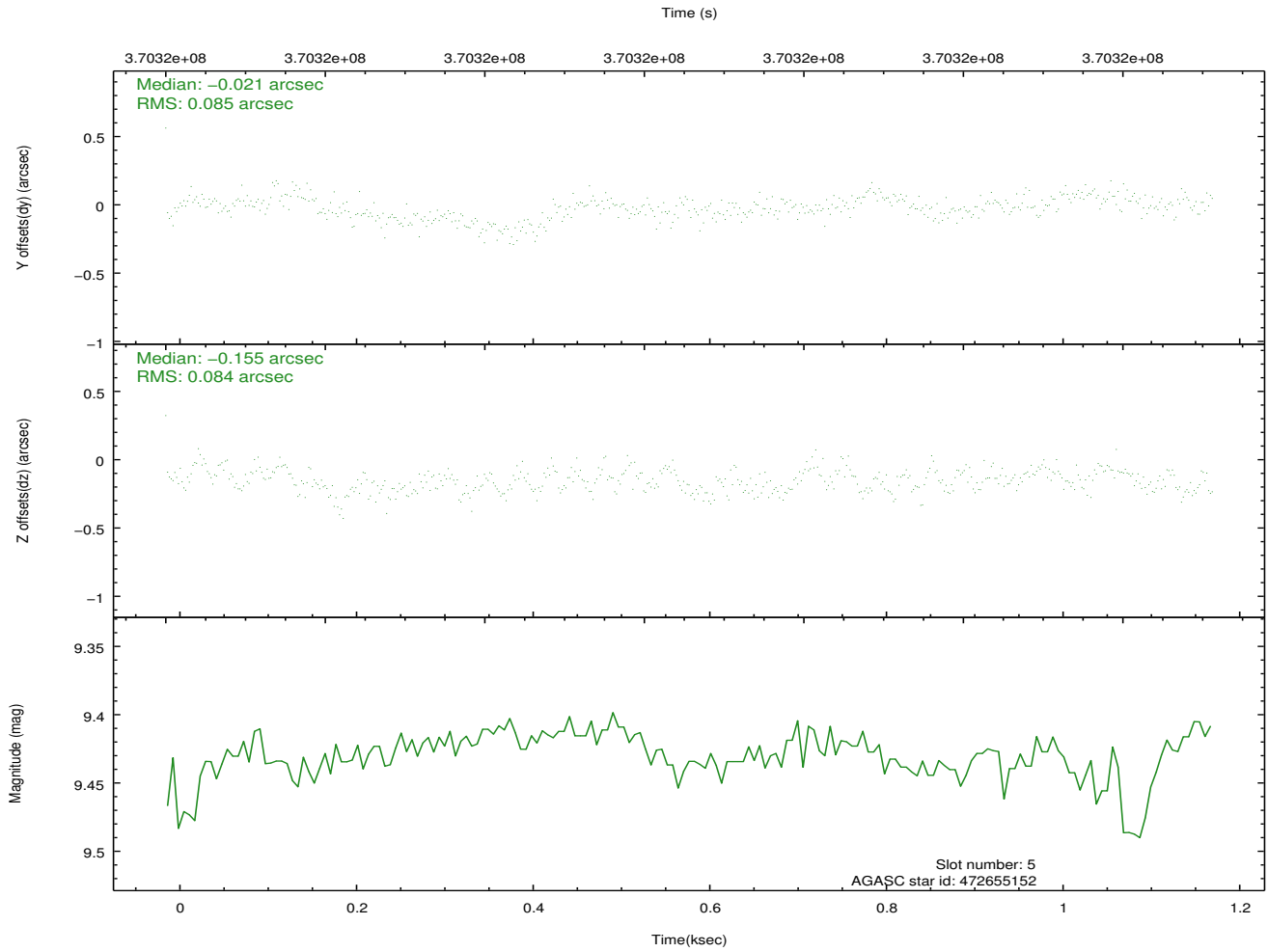
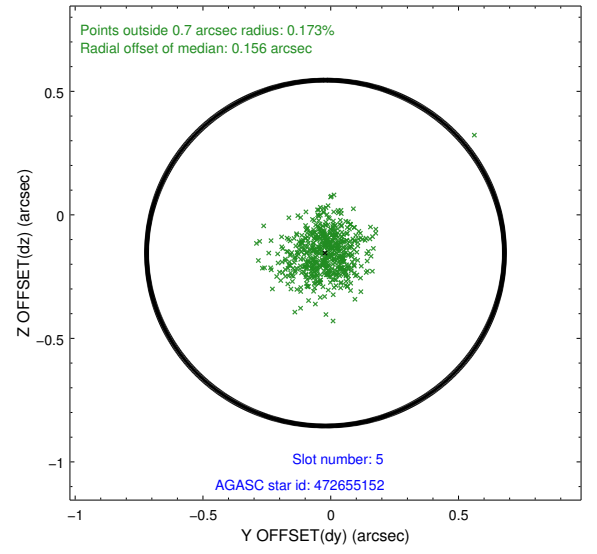
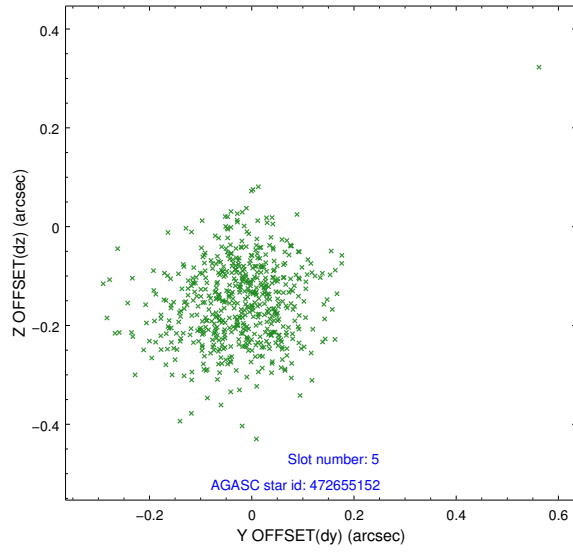
### 2.4.1 Slot 3



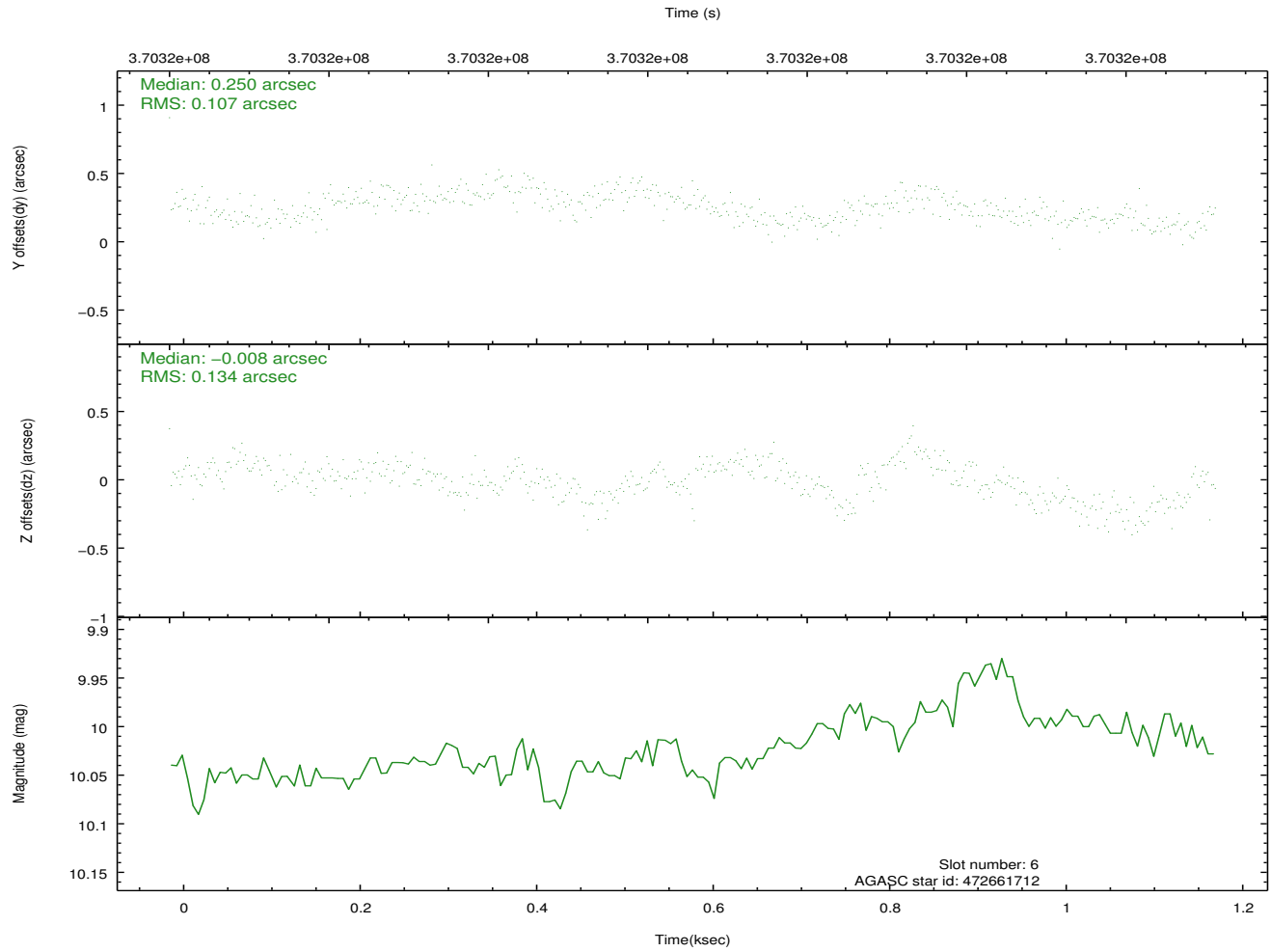
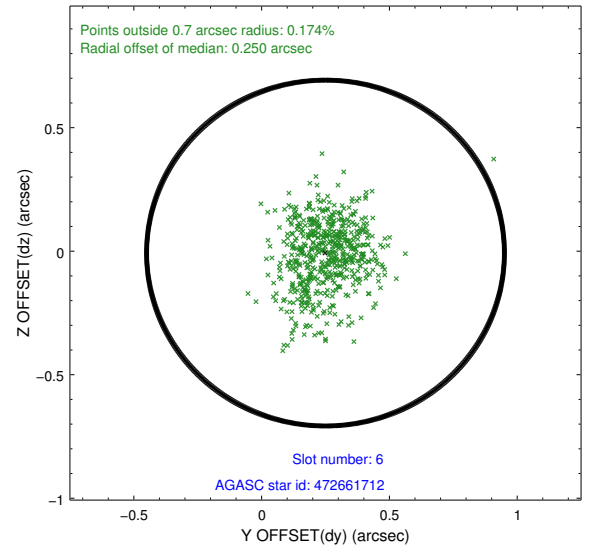
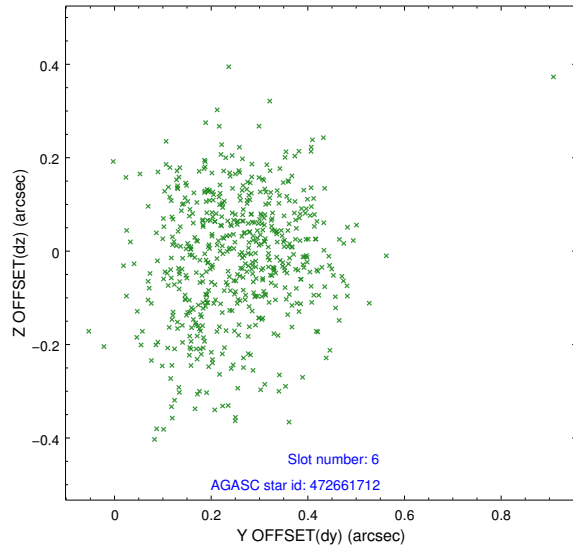
## 2.4.2 Slot 4



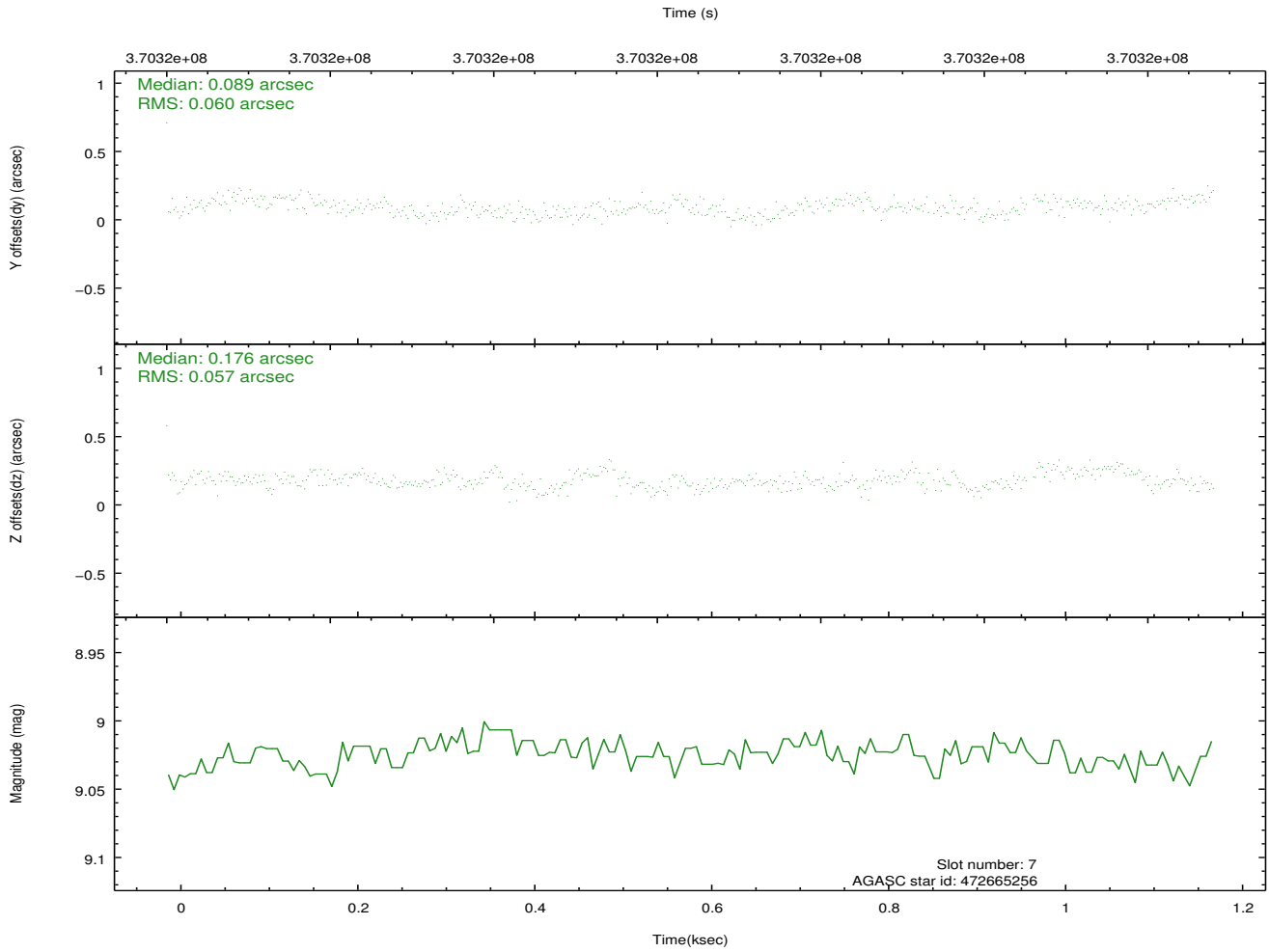
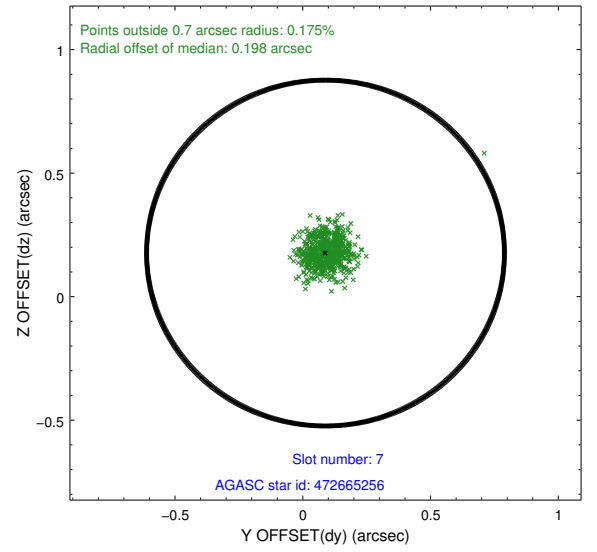
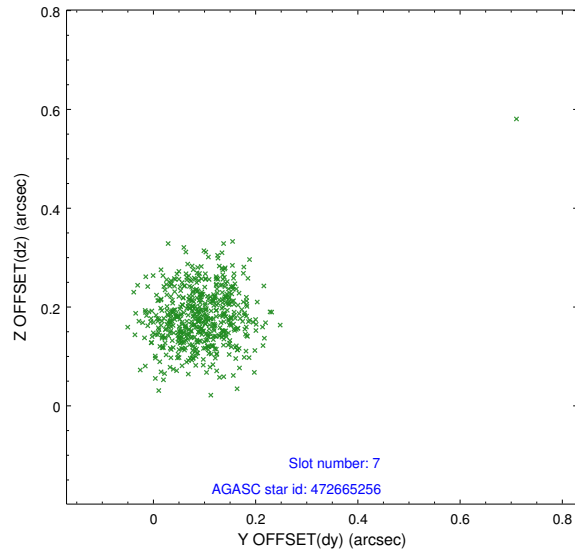
### 2.4.3 Slot 5



## 2.4.4 Slot 6

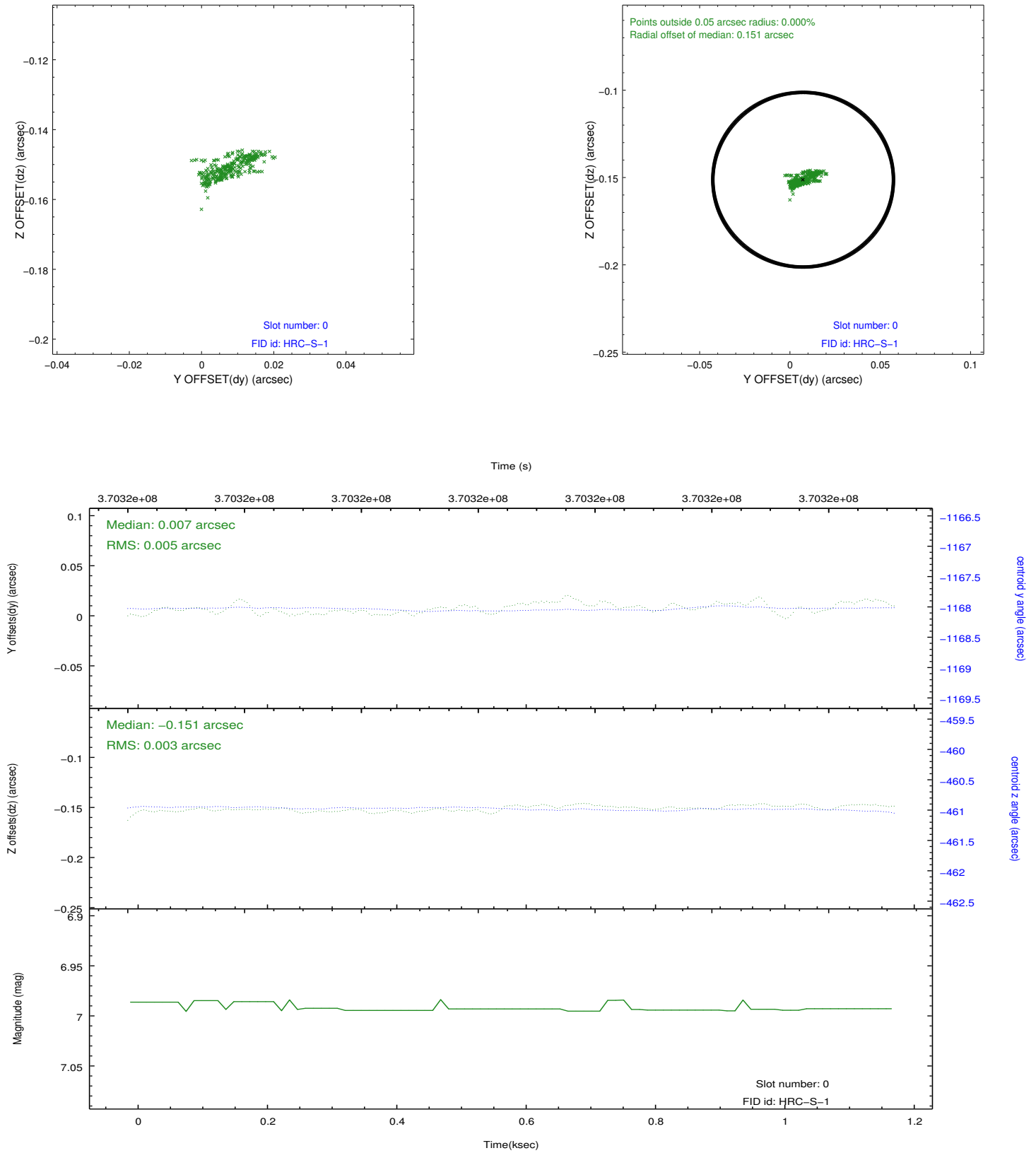


## 2.4.5 Slot 7

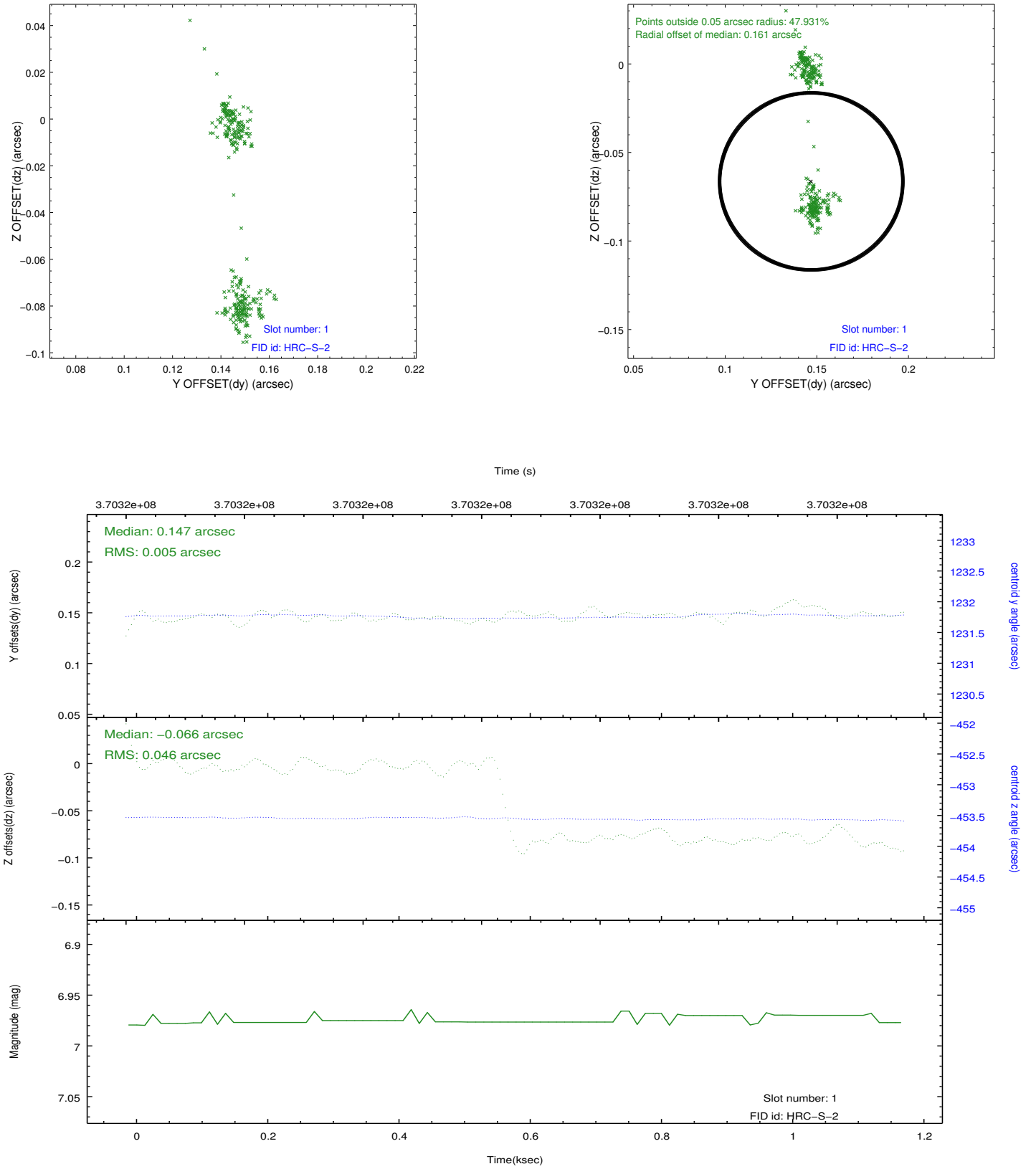


## 2.5 FID Slots

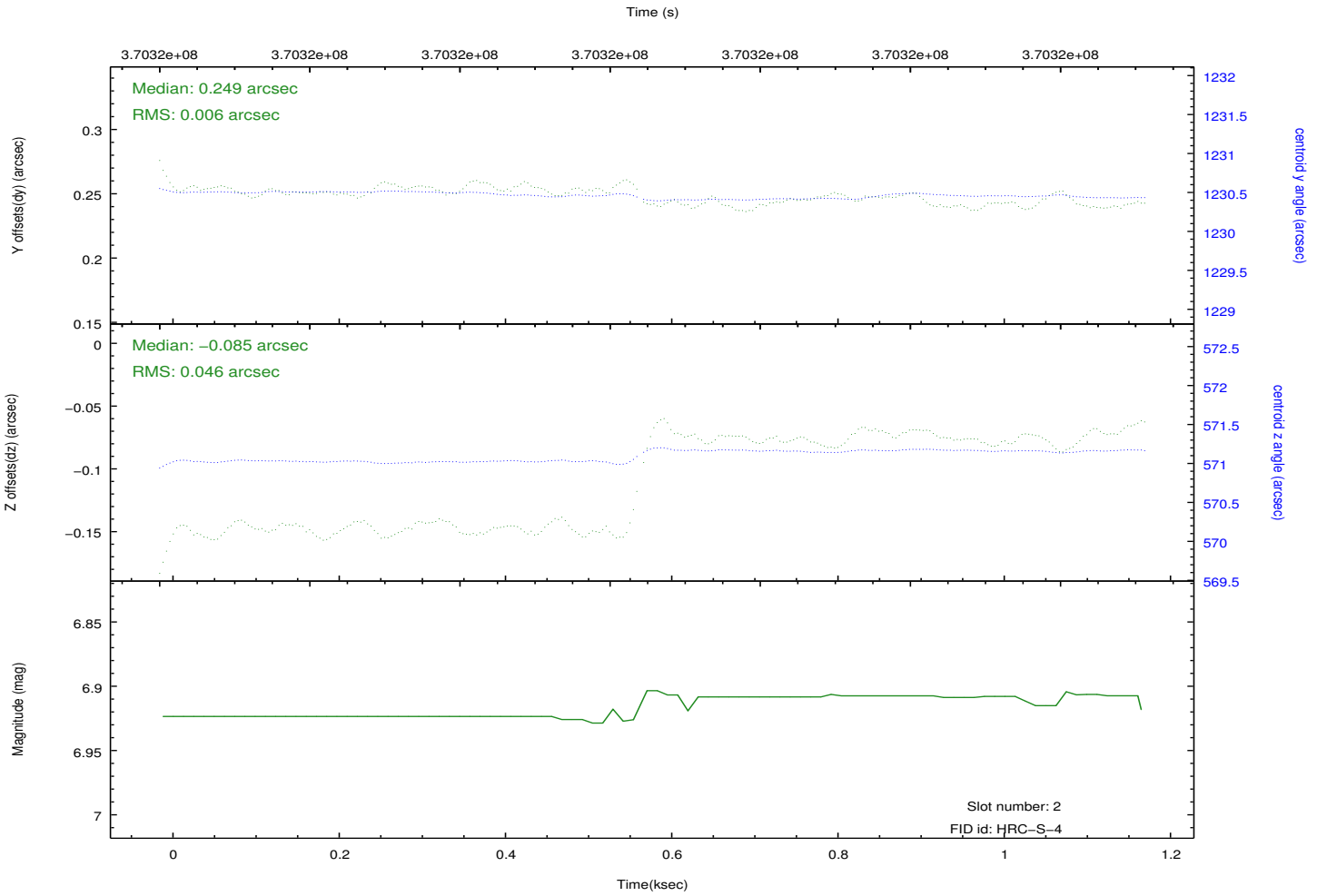
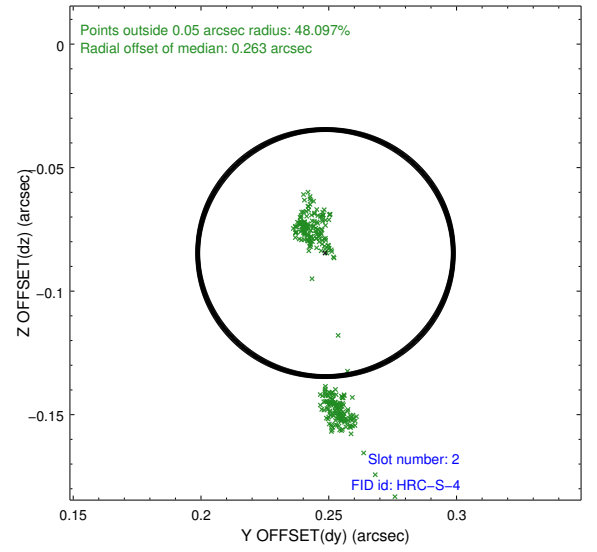
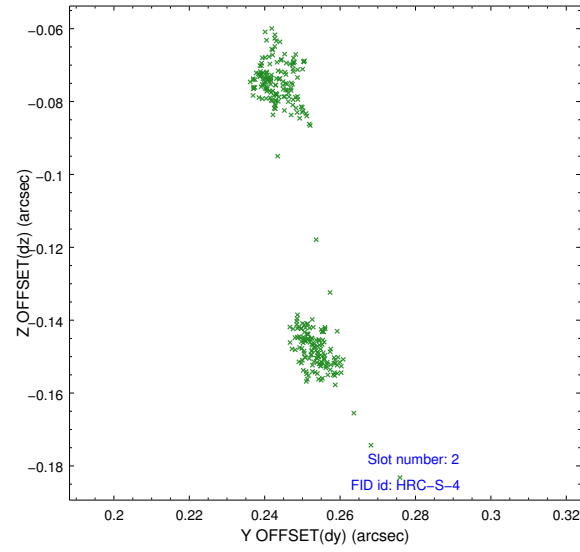
### 2.5.1 Slot 0



## 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)	2012.08.22
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.1841313094497

### **A.2 Comments**