

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 10614 - L2 Version 3  
Chandra X-Ray Center

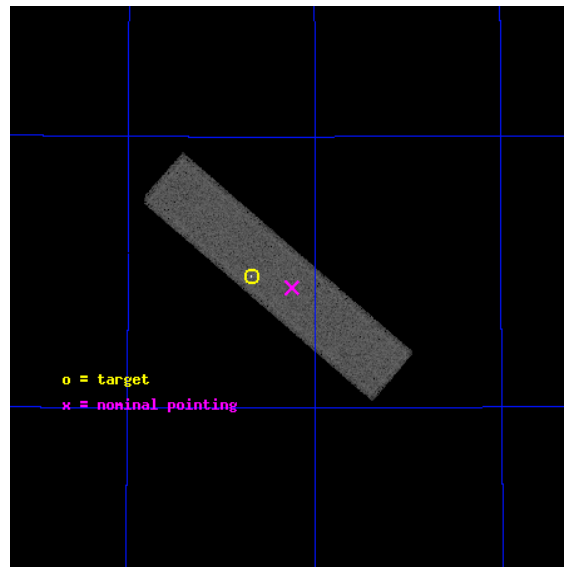
L2 Processing Date : Aug 13 2012

## 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

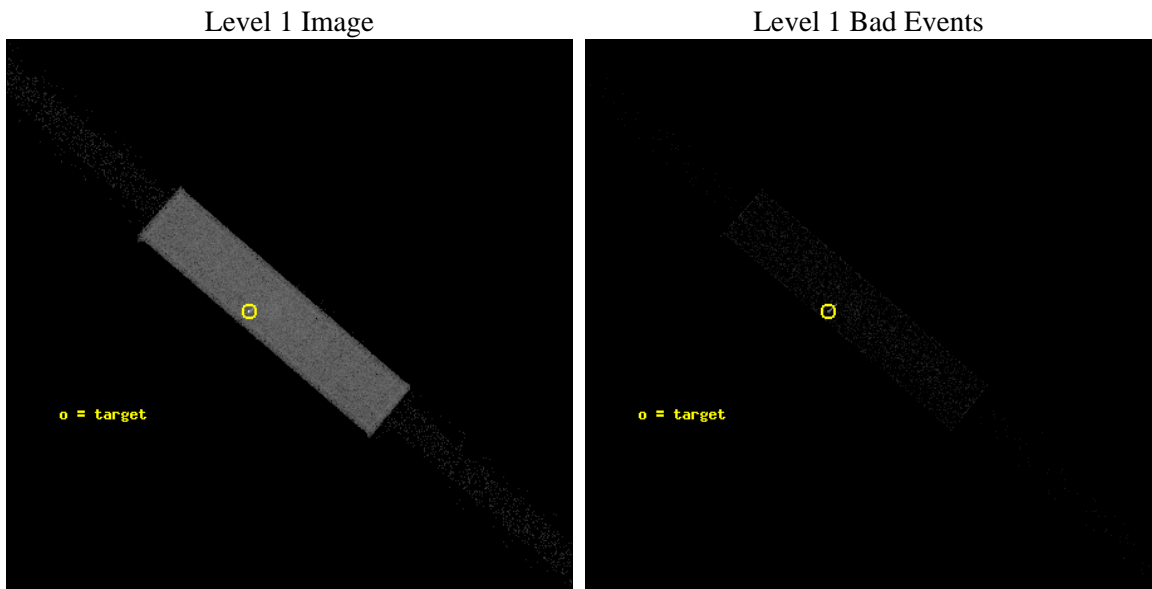
seq_num	290850	Sequence number
obs_id	10614	Observation id
title	AO-10 Calibration Observations to Monitor the Spatial Variations in the HRC-S Gain	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.06093511901	Nominal RA [deg]
dec_nom	45.721257548824	Nominal Dec [deg]
roll_nom	220.4821281359	Nominal Roll [deg]
revision	3	Processing version of data
ontime	1182.0813093781	[s]
livetime	1170.6408386421	Ontime multiplied by DTCOR
l2events	82470	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	1182.0813093781	[s]
caldbver	4.5.1.1	&#160	l1events	126079	Number of level 1 events
date	2012-08-13T16:35:25	Date and time of file creation			
revision	3	Processing version of data			

### 2.1.3 Events

Level 1 Events

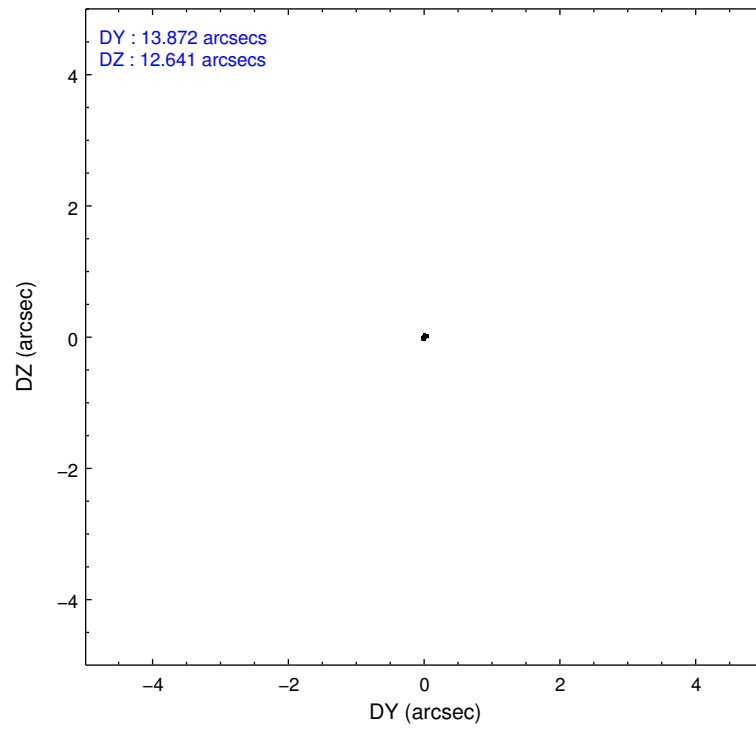
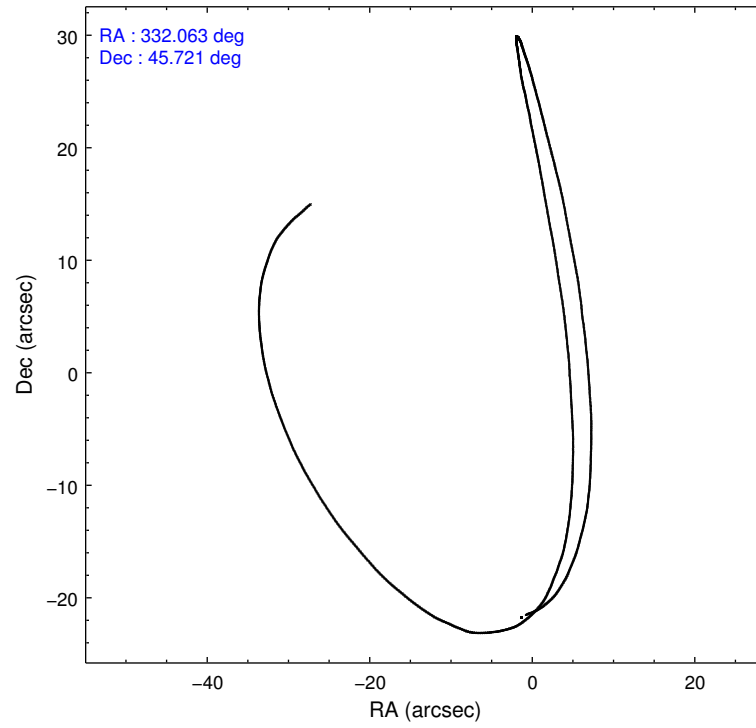
	<b>segment 1</b>	<b>segment 2</b>	<b>segment 3</b>
level 1 events	1091	123904	1084
rejected events	1091	25861	1084
rejected %	100%	20%	100%

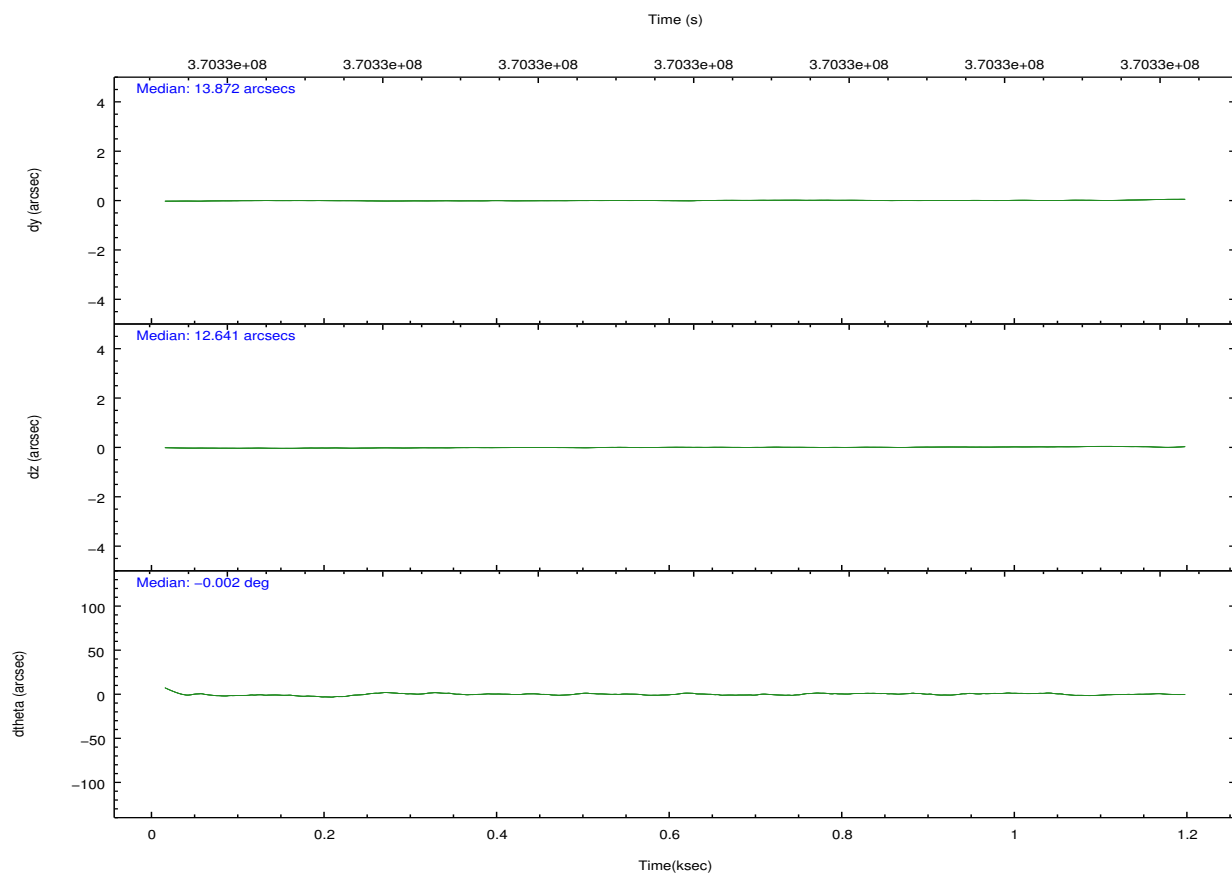
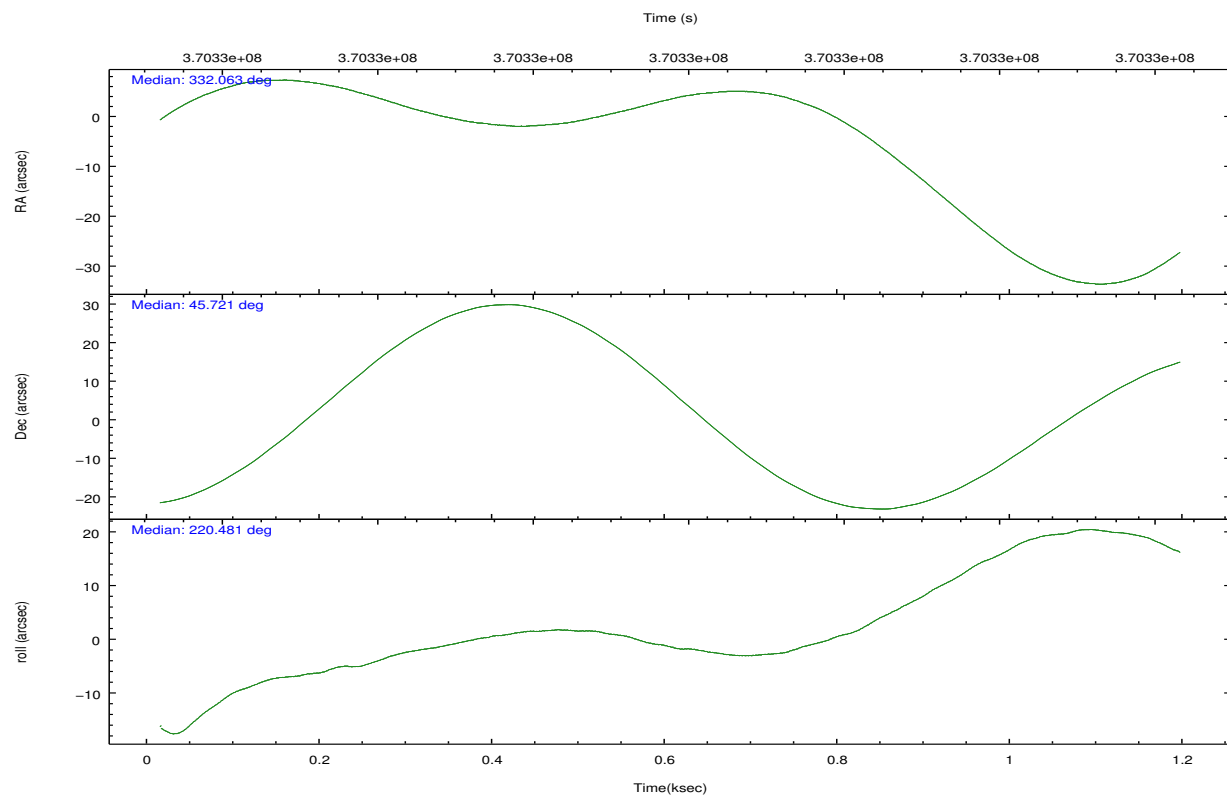
## 2.2 Compared Parameters

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	332.072841	332.0609351190128
[deg] Pointing Dec	45.748972	45.72125754882428
[deg] Pointing Roll	220.406289	220.4821281359048
[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)	370325383.184000	370325006.81497
Observation start date	2009-09-26T04:08:37	2009-09-26T04:03:26
[s] Observation end time (MET)	370326383.184000	370326517.15254
Observation end date	2009-09-26T04:25:17	2009-09-26T04:28:37

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

## 2.3 Aspect





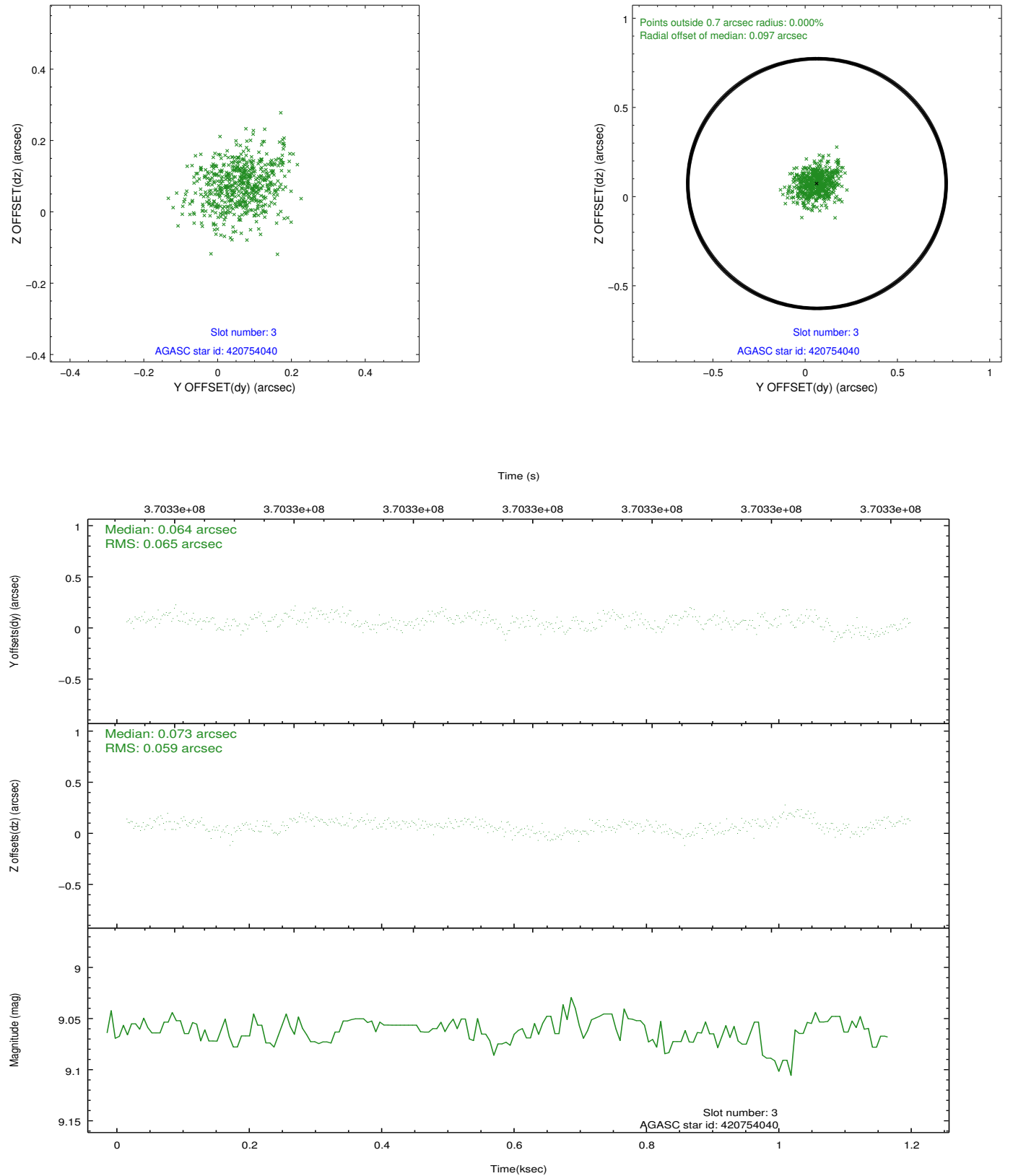
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-S-1	7.00	289	0.013	-0.148	0.005	0.009	0.000000	0.000000	-1168.32	-461.38
1	FID	HRC-S-2	6.98	289	0.150	-0.019	0.010	0.022	0.000000	0.000000	1227.43	-455.54
2	FID	HRC-S-4	6.92	289	0.241	-0.136	0.009	0.019	0.000000	0.000000	1234.41	569.08
3	GUIDE	420754040	9.06	578	0.064	0.073	0.093	0.155	331.917939	44.882543	2321.17	2119.19
4	GUIDE	472523760	8.23	577	0.087	-0.133	0.073	0.109	331.645363	45.403260	1631.48	248.50
5	GUIDE	472525528	6.64	578	-0.235	0.039	0.094	0.153	331.551102	45.248694	2173.82	511.34
6	GUIDE	472533912	9.14	578	0.025	0.079	0.127	0.201	331.791136	46.368695	-910.62	-2152.59
7	GUIDE	472655152	9.42	576	0.060	-0.058	0.103	0.169	332.504239	45.862991	-1093.33	382.39

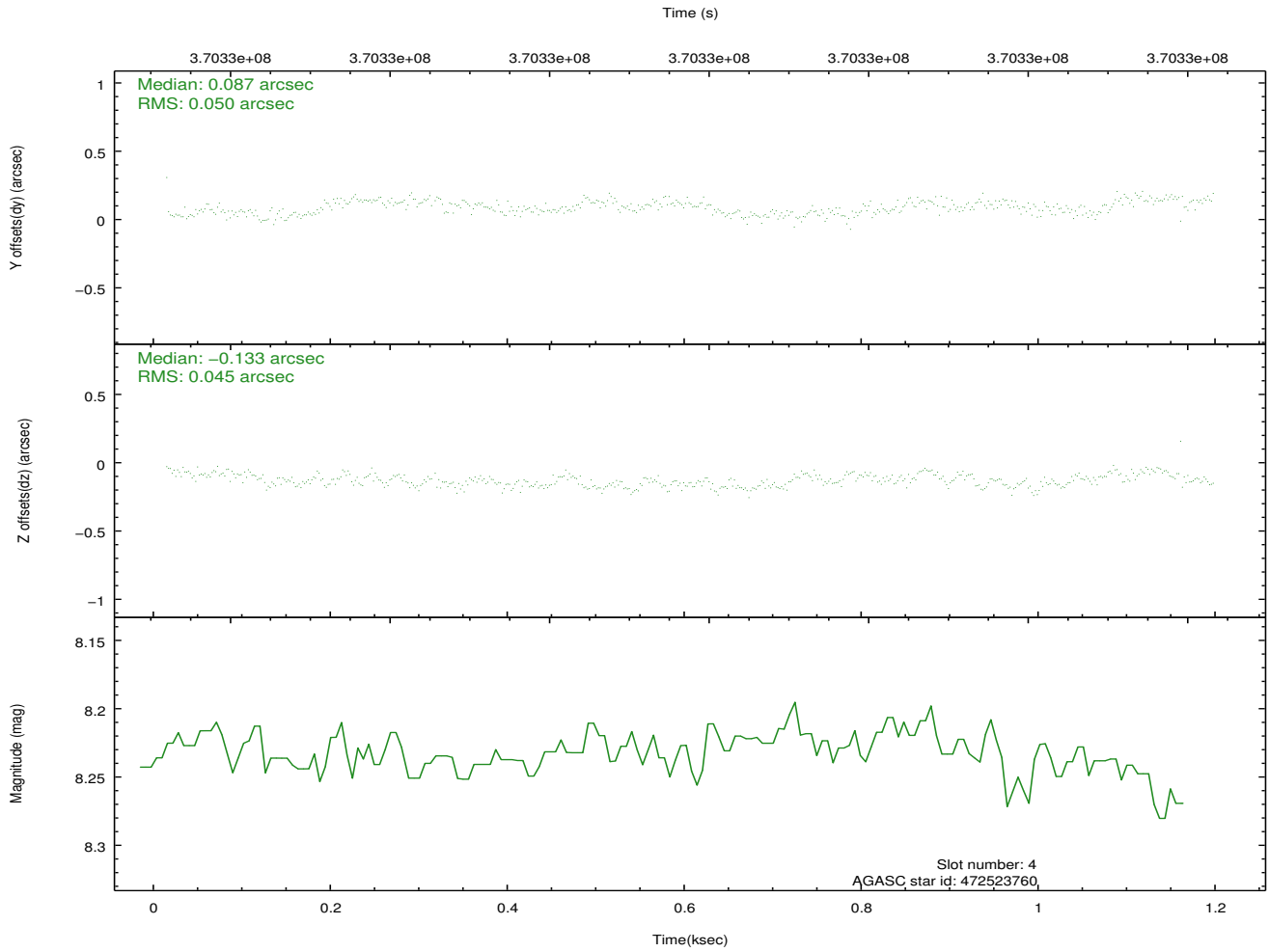
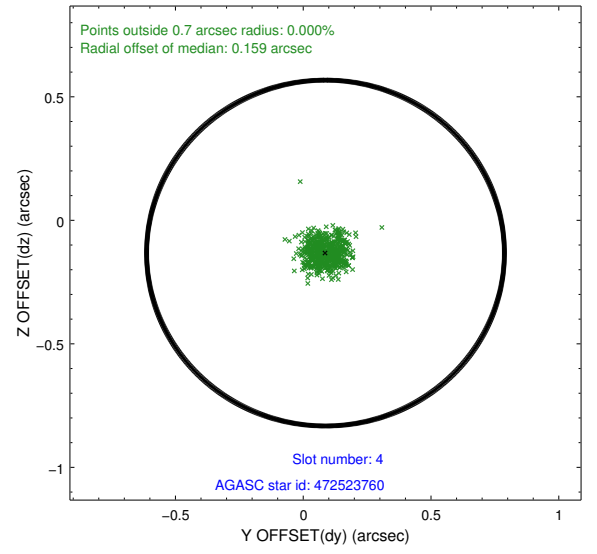
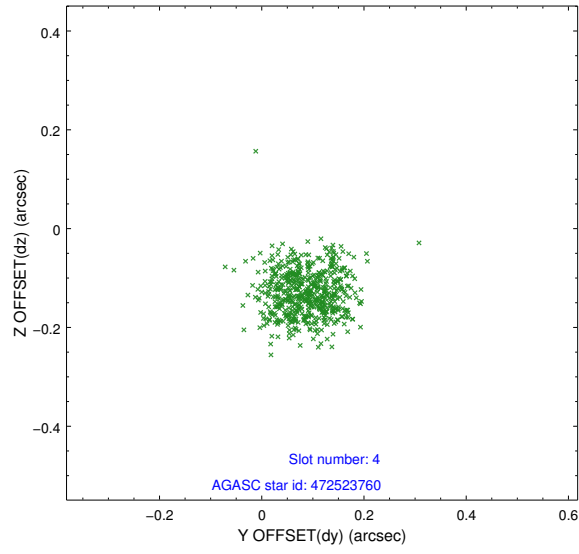


## 2.4 Star Slots

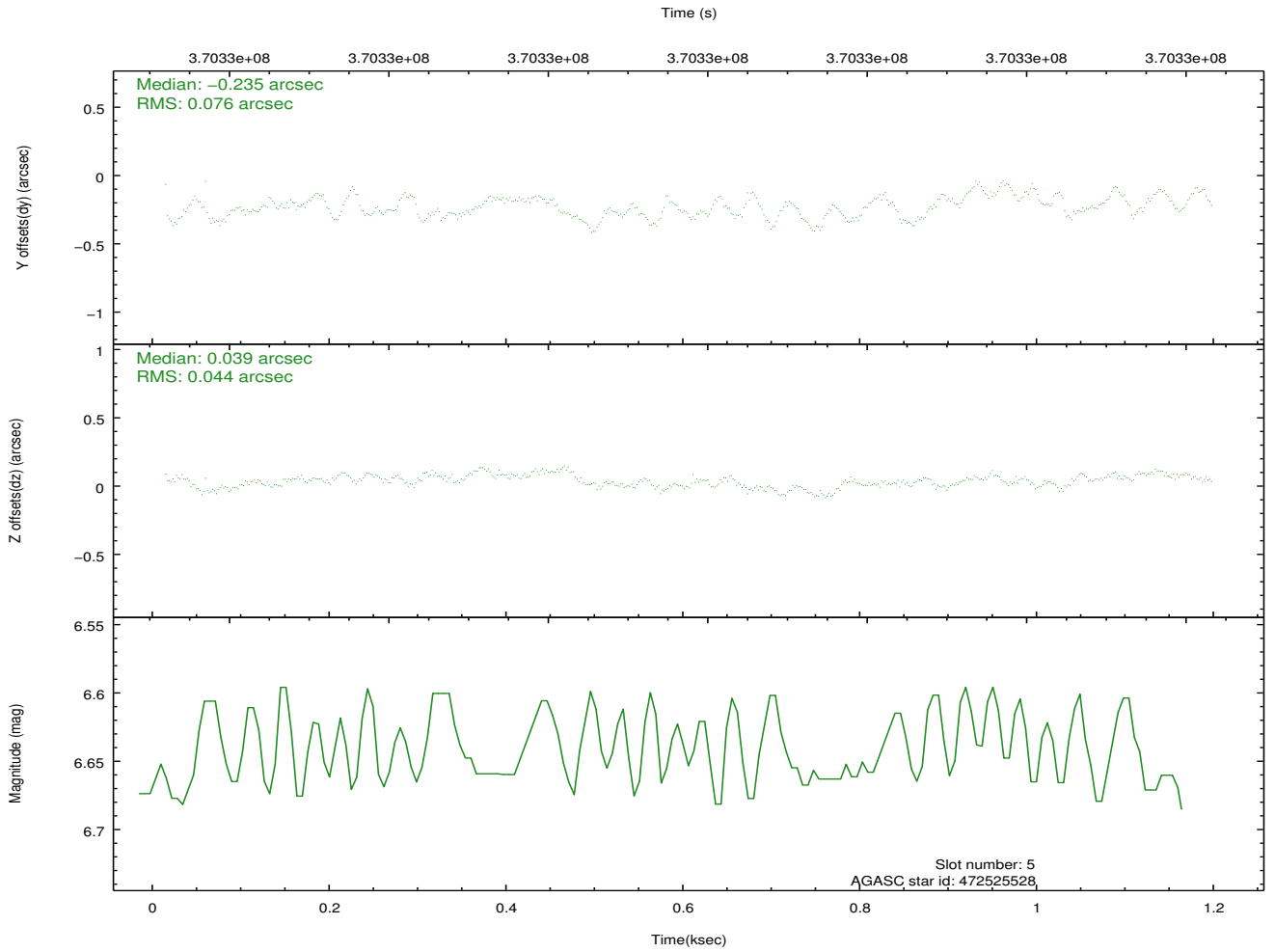
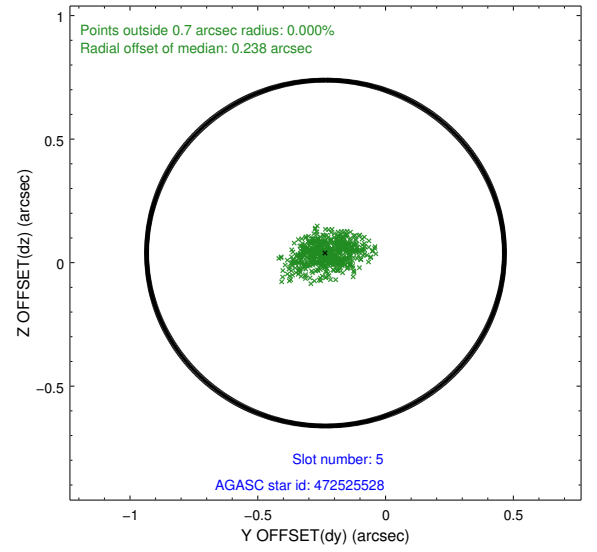
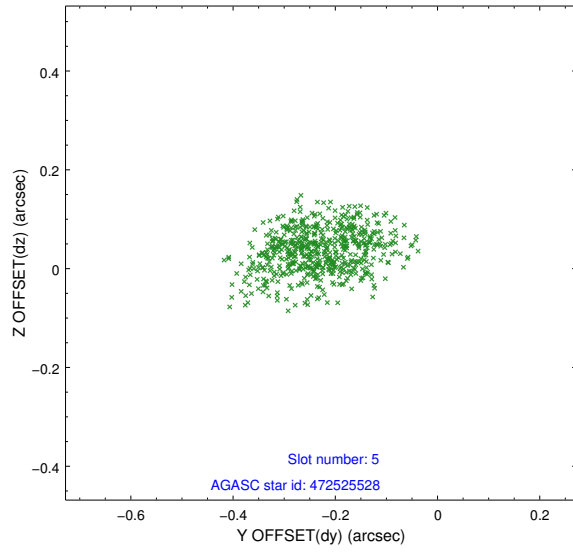
### 2.4.1 Slot 3



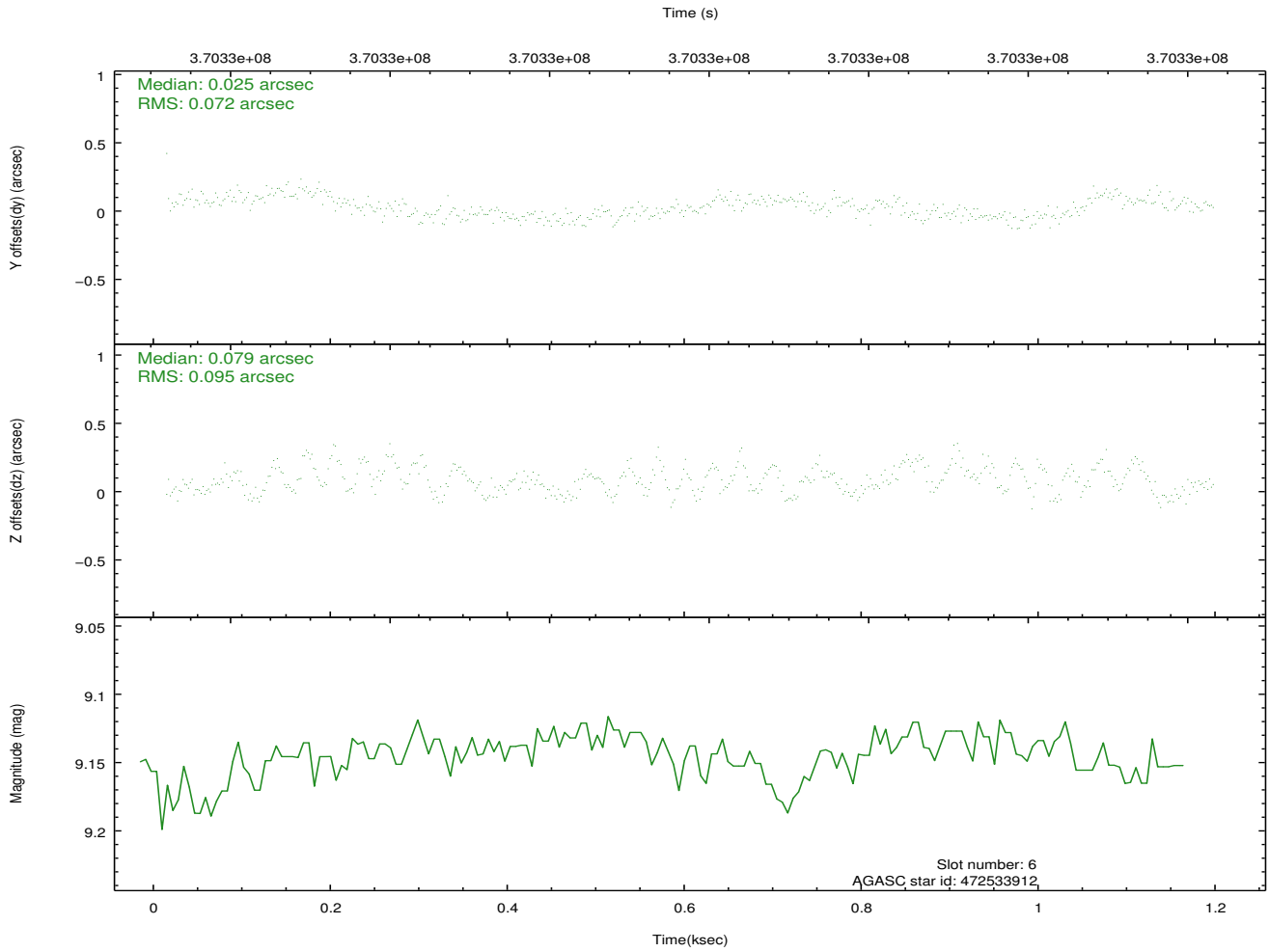
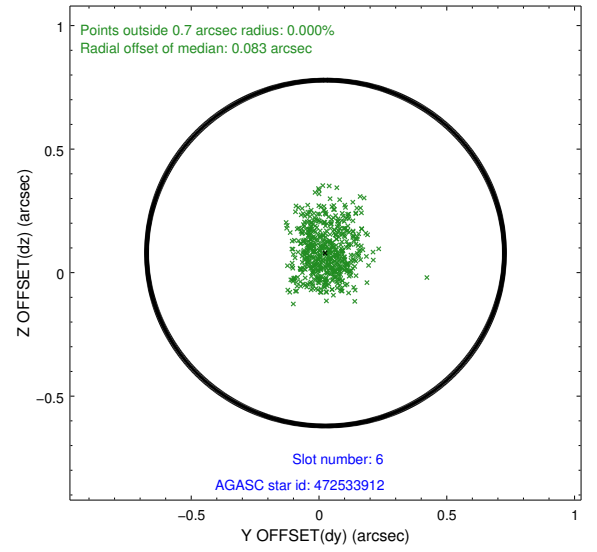
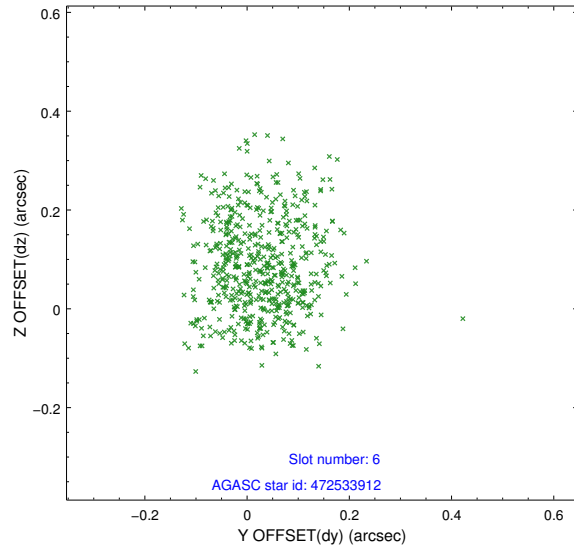
## 2.4.2 Slot 4



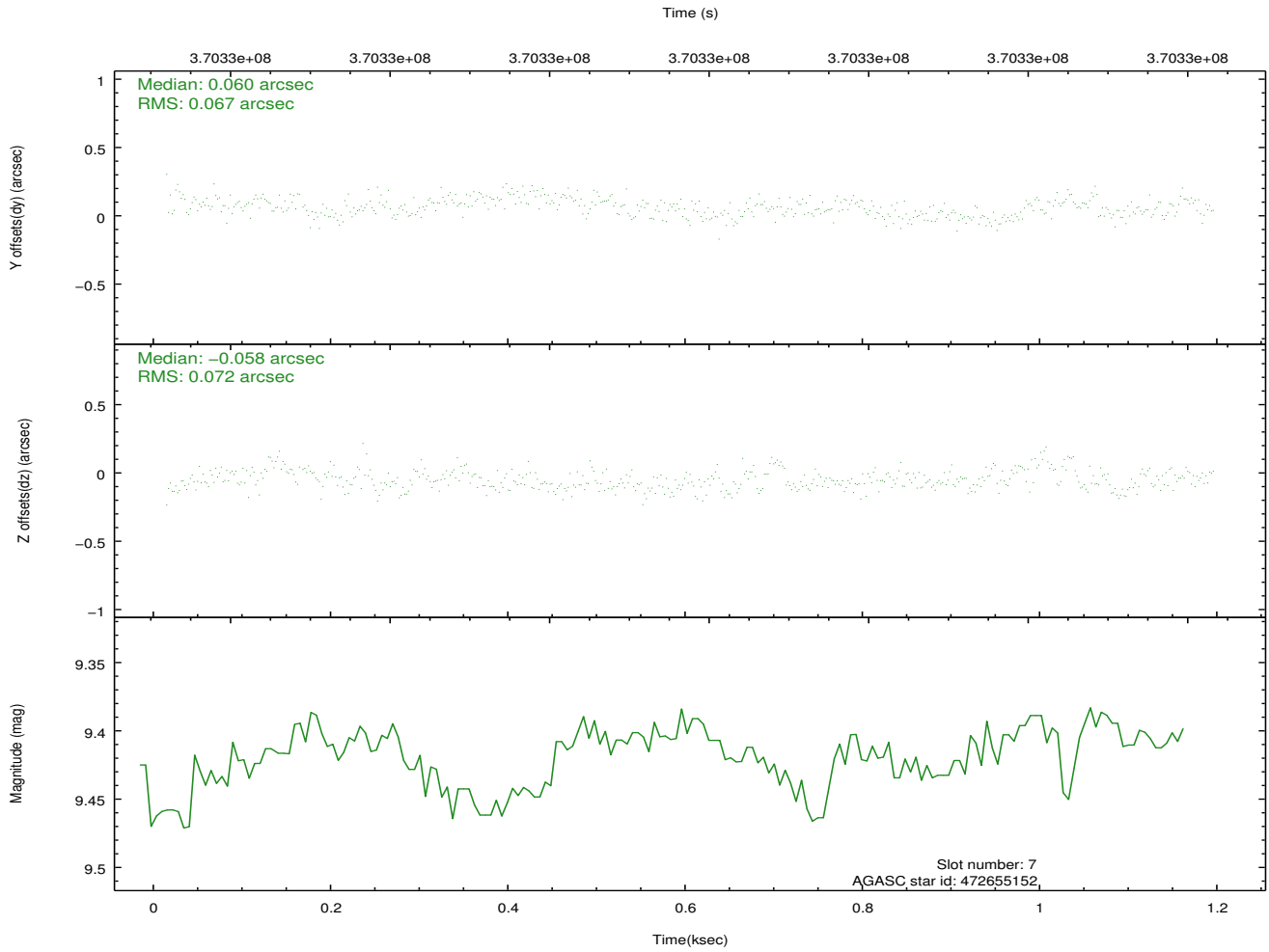
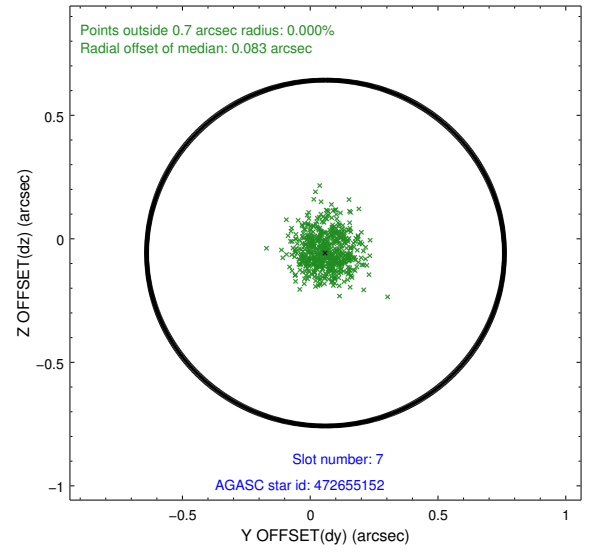
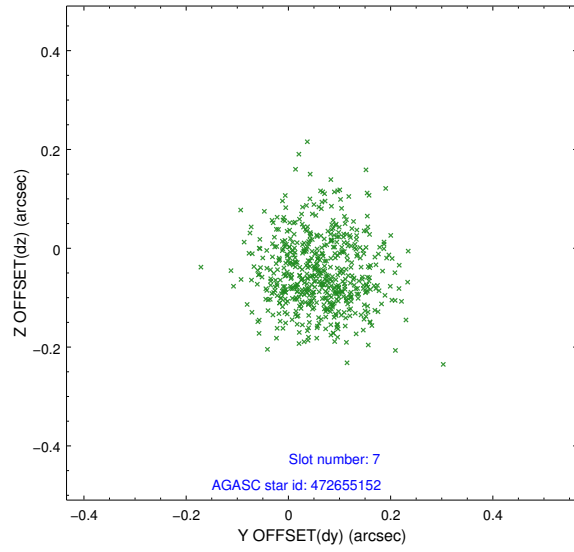
### 2.4.3 Slot 5



## 2.4.4 Slot 6

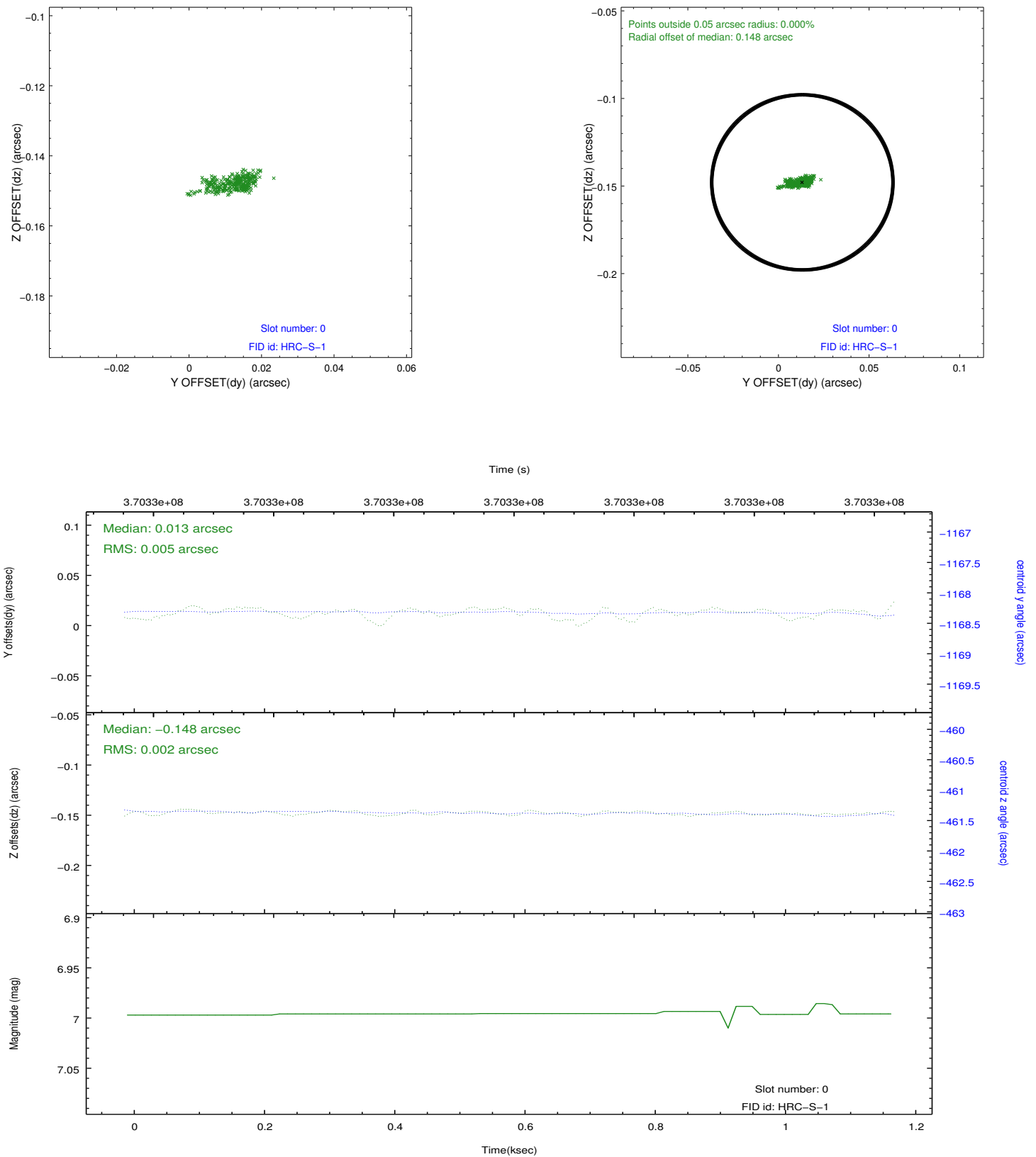


## 2.4.5 Slot 7

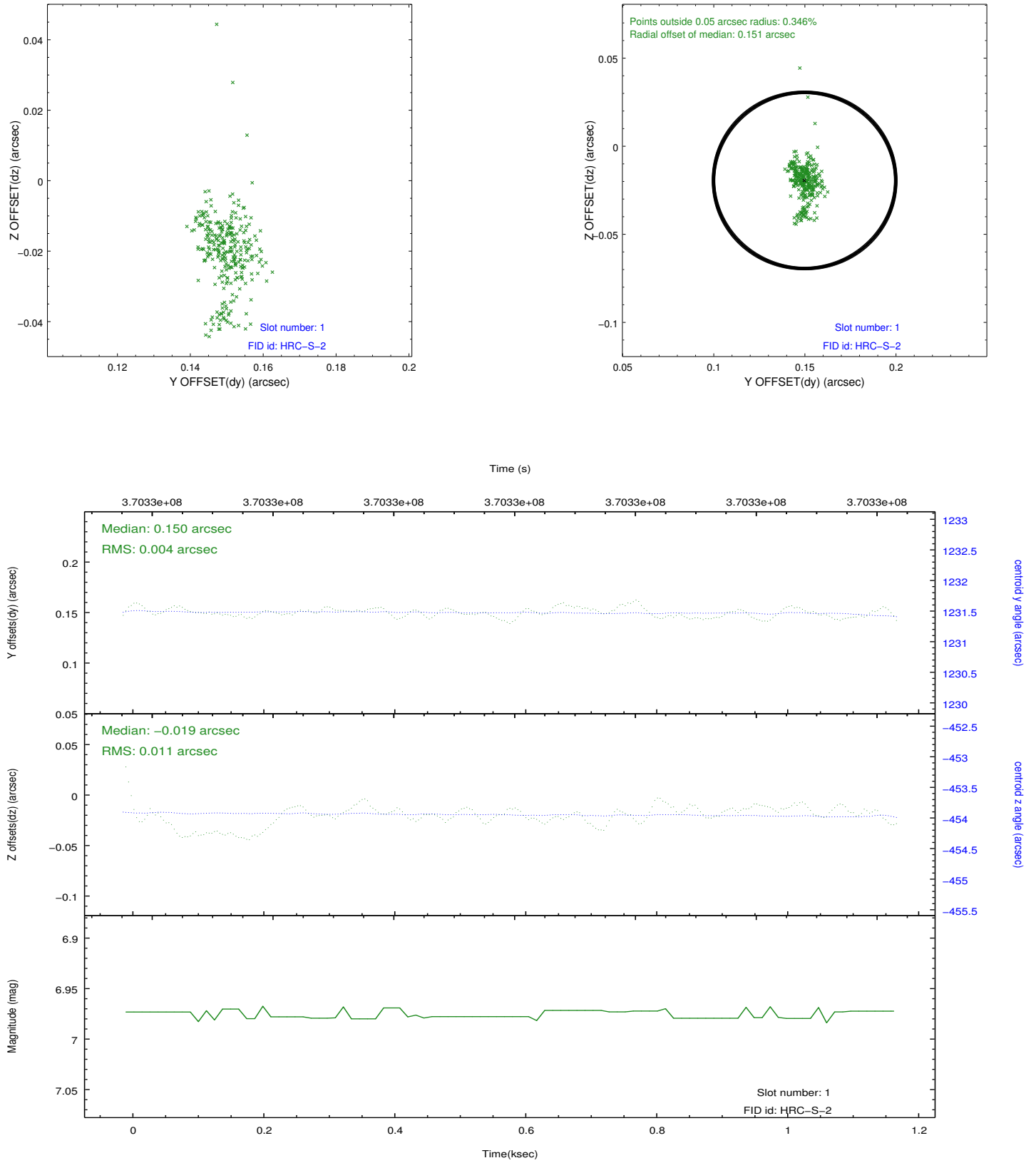


## 2.5 FID Slots

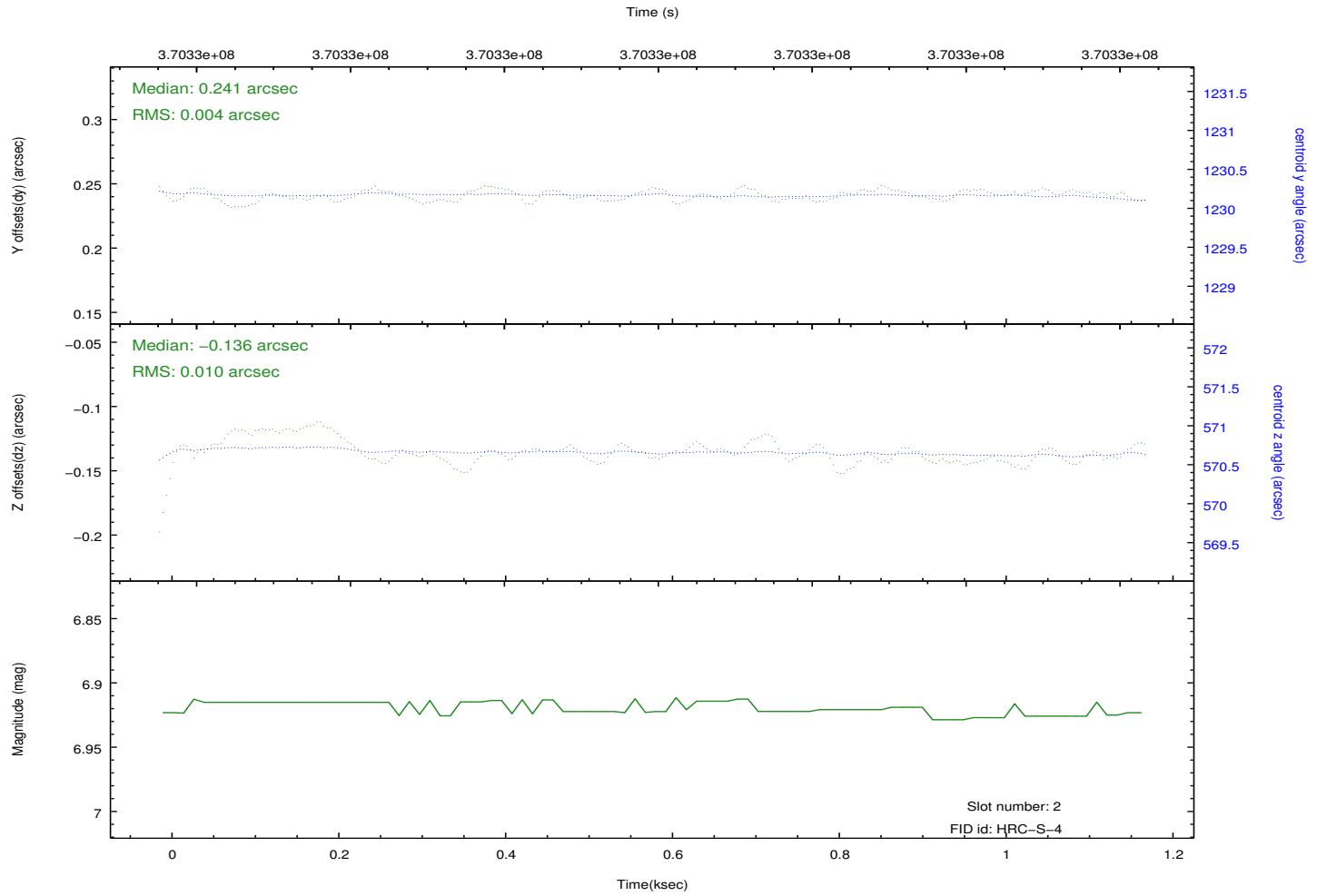
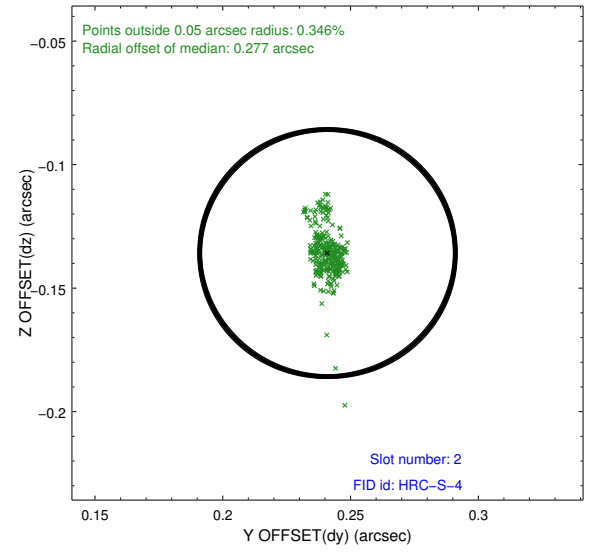
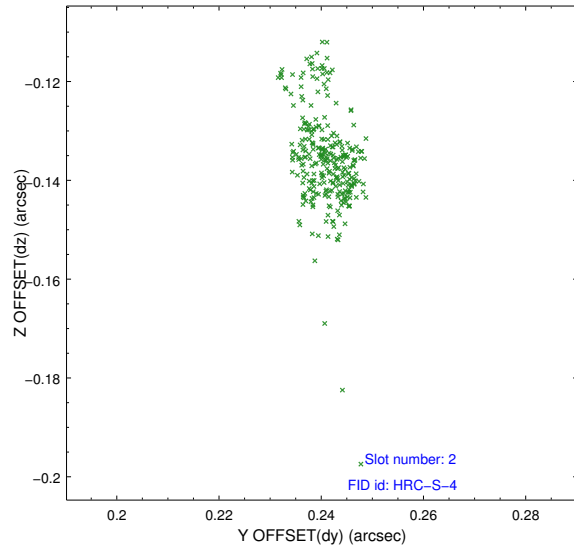
### 2.5.1 Slot 0



## 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	1.1820813093781

### A.2 Comments