

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 8324 - L2 Version 3  
Chandra X-Ray Center

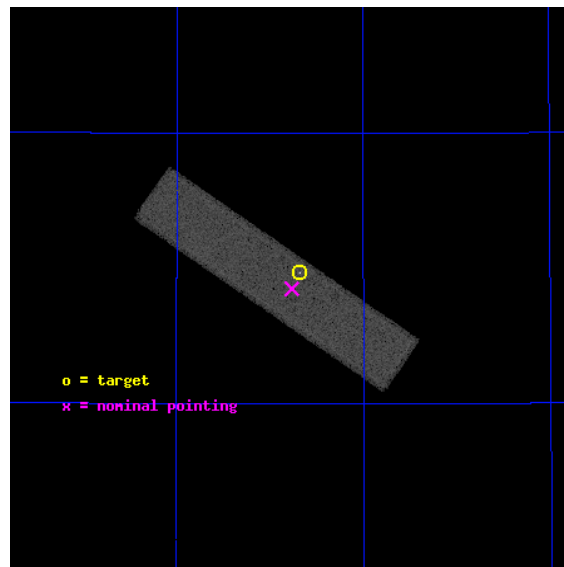
L2 Processing Date : Aug 12 2012

## 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

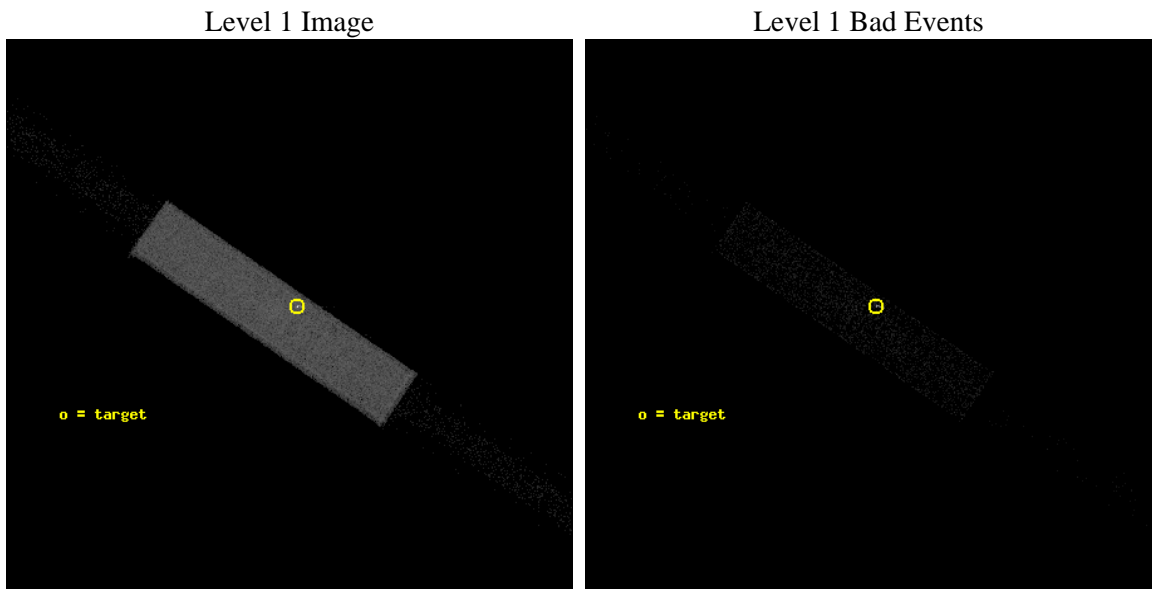
seq_num	290703	Sequence number
obs_id	8324	Observation id
title	AO8 Calibration Observations to Monitor the Spatial Variations in the HRC-S Gain	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.19089404804	Nominal RA [deg]
dec_nom	45.712803519116	Nominal Dec [deg]
roll_nom	214.2944501693	Nominal Roll [deg]
revision	3	Processing version of data
ontime	1151.3313055038	[s]
livetime	1140.9390201168	Ontime multiplied by DTCOR
l2events	75025	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	1151.3313055038	[s]
caldsver	4.5.1.1	&#160	l1events	130292	Number of level 1 events
date	2012-08-12T03:25:43	Date and time of file creation			
revision	3	Processing version of data			

### 2.1.3 Events

Level 1 Events

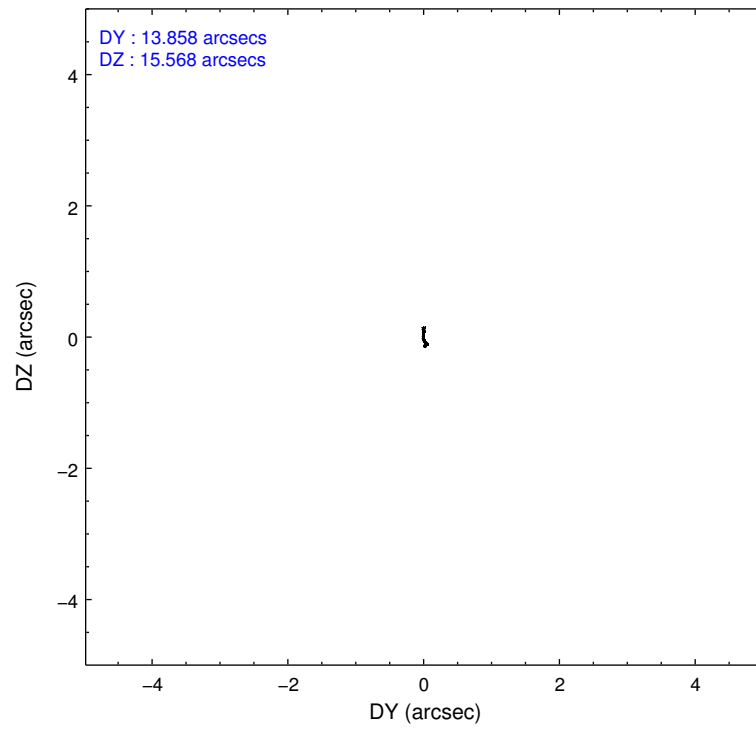
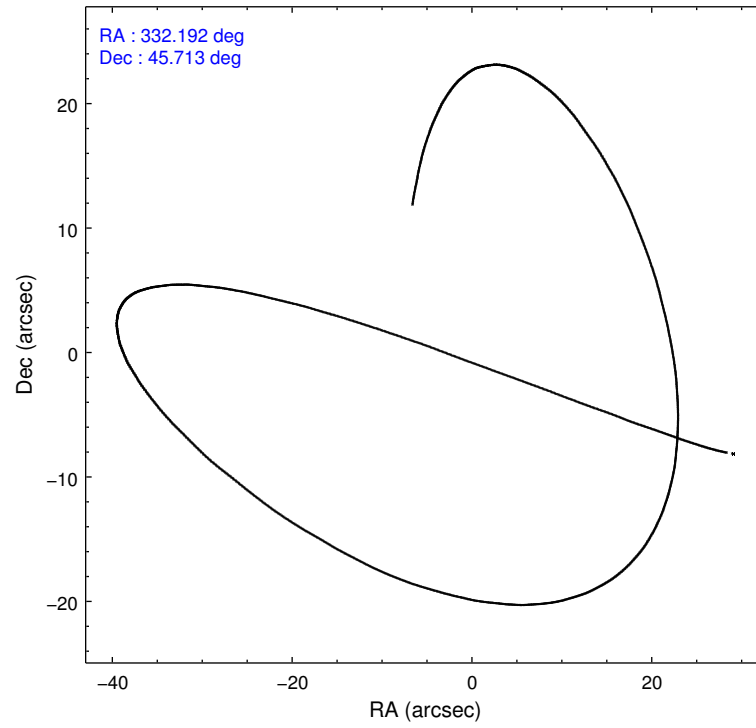
	segment 1	segment 2	segment 3
level 1 events	996	128330	966
rejected events	996	39202	966
rejected %	100%	30%	100%

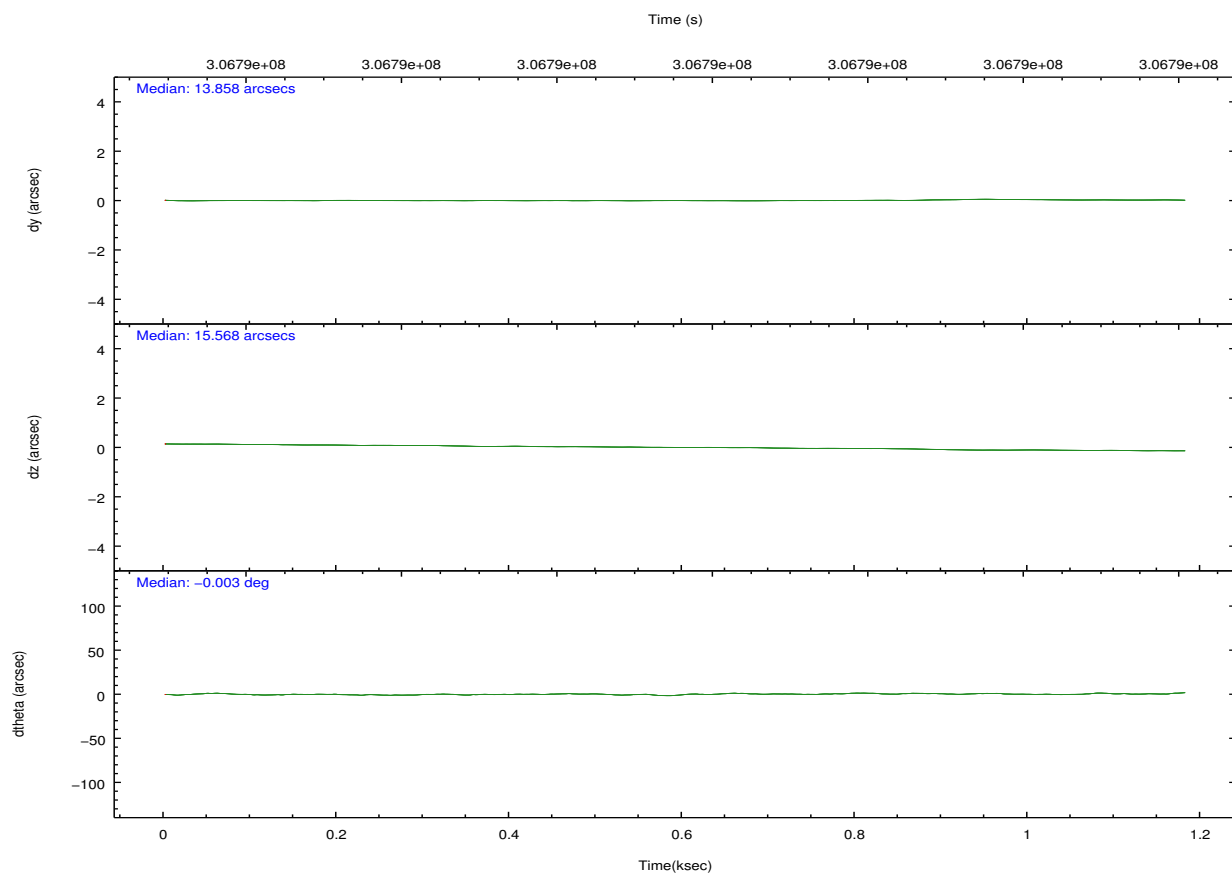
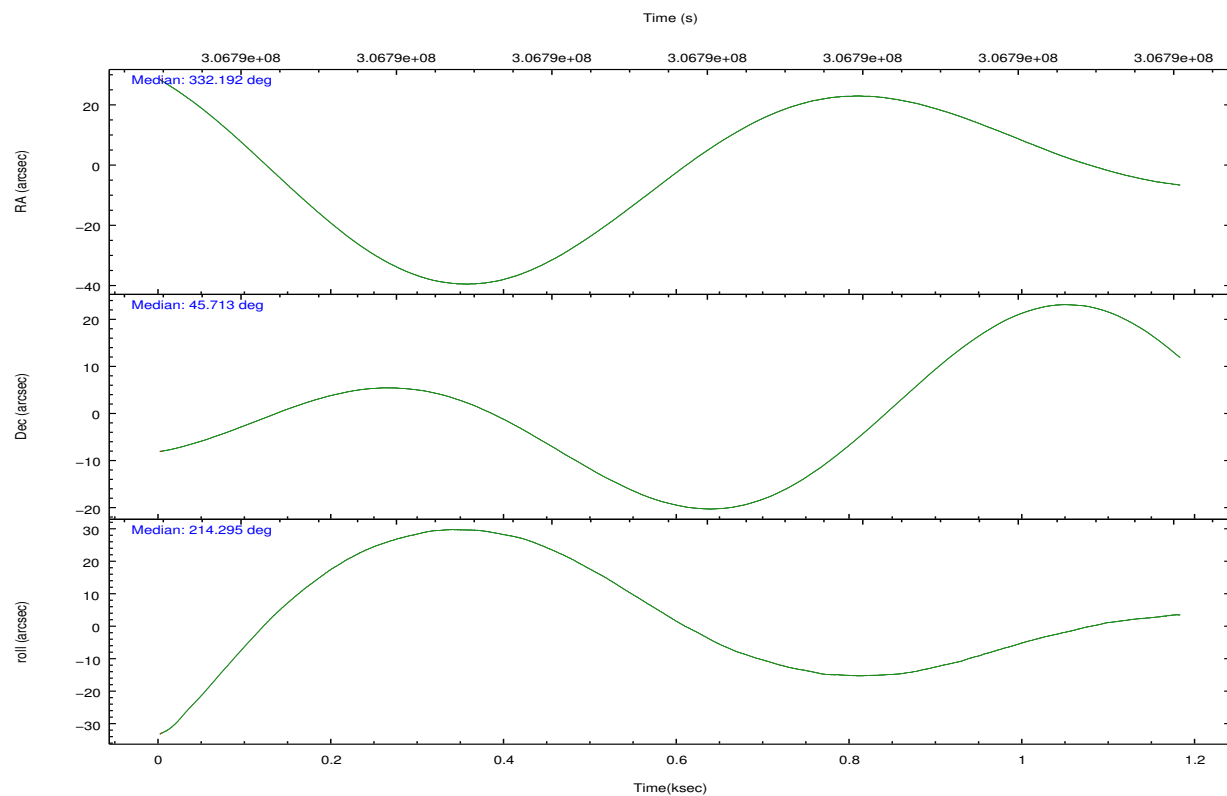
## 2.2 Compared Parameters

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	332.207145	332.1908940480374
[deg] Pointing Dec	45.738578	45.7128035191157
[deg] Pointing Roll	214.215493	214.2944501693048
[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)	306790743.184000	306790368.15582
Observation start date	2007-09-21T19:37:58	2007-09-21T19:32:48
[s] Observation end time (MET)	306791743.184000	306791877.46839
Observation end date	2007-09-21T19:54:38	2007-09-21T19:57:57

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

## 2.3 Aspect





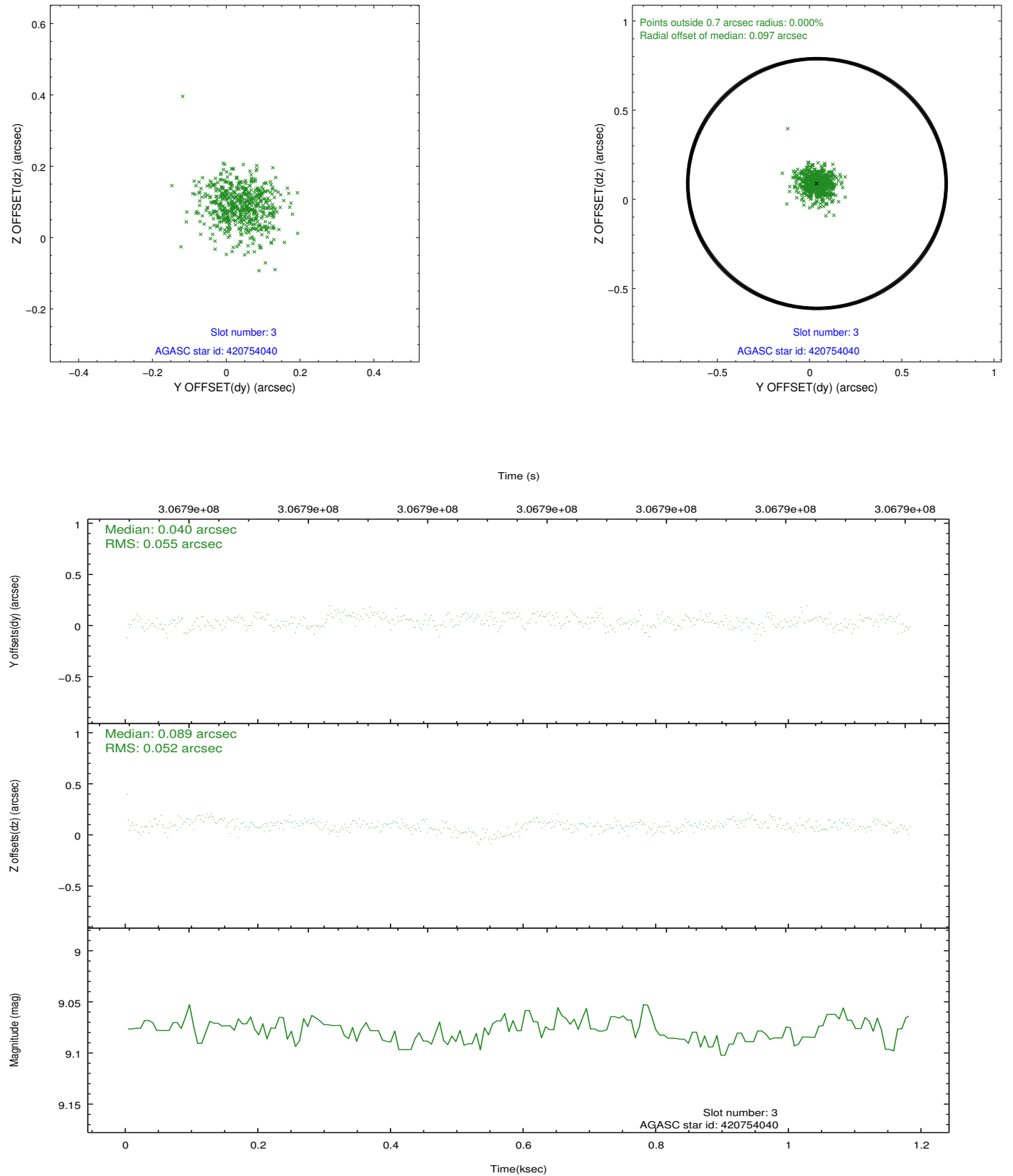
Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-S-1	7.08	288	0.104	-0.219	0.007	0.012	0.000000	0.000000	-1168.21	-464.47
1	FID	HRC-S-2	7.06	289	0.170	-0.106	0.005	0.009	0.000000	0.000000	1227.47	-458.64
2	FID	HRC-S-3	7.06	289	0.116	0.024	0.007	0.012	0.000000	0.000000	-1166.65	563.71
3	GUIDE	420754040	9.08	575	0.040	0.089	0.078	0.131	331.917939	44.882543	2342.49	2135.44
4	GUIDE	472655152	9.42	576	0.055	-0.147	0.109	0.184	332.504239	45.862991	-863.40	53.65
5	GUIDE	472665256	9.00	577	0.162	0.157	0.074	0.117	332.808125	46.195041	-2165.95	-518.44
6	GUIDE	472523760	8.24	577	0.046	-0.101	0.062	0.105	331.645363	45.403260	1847.59	197.29
7	GUIDE	472525528	6.63	576	-0.303	0.022	0.075	0.122	331.551102	45.248694	2366.76	520.75

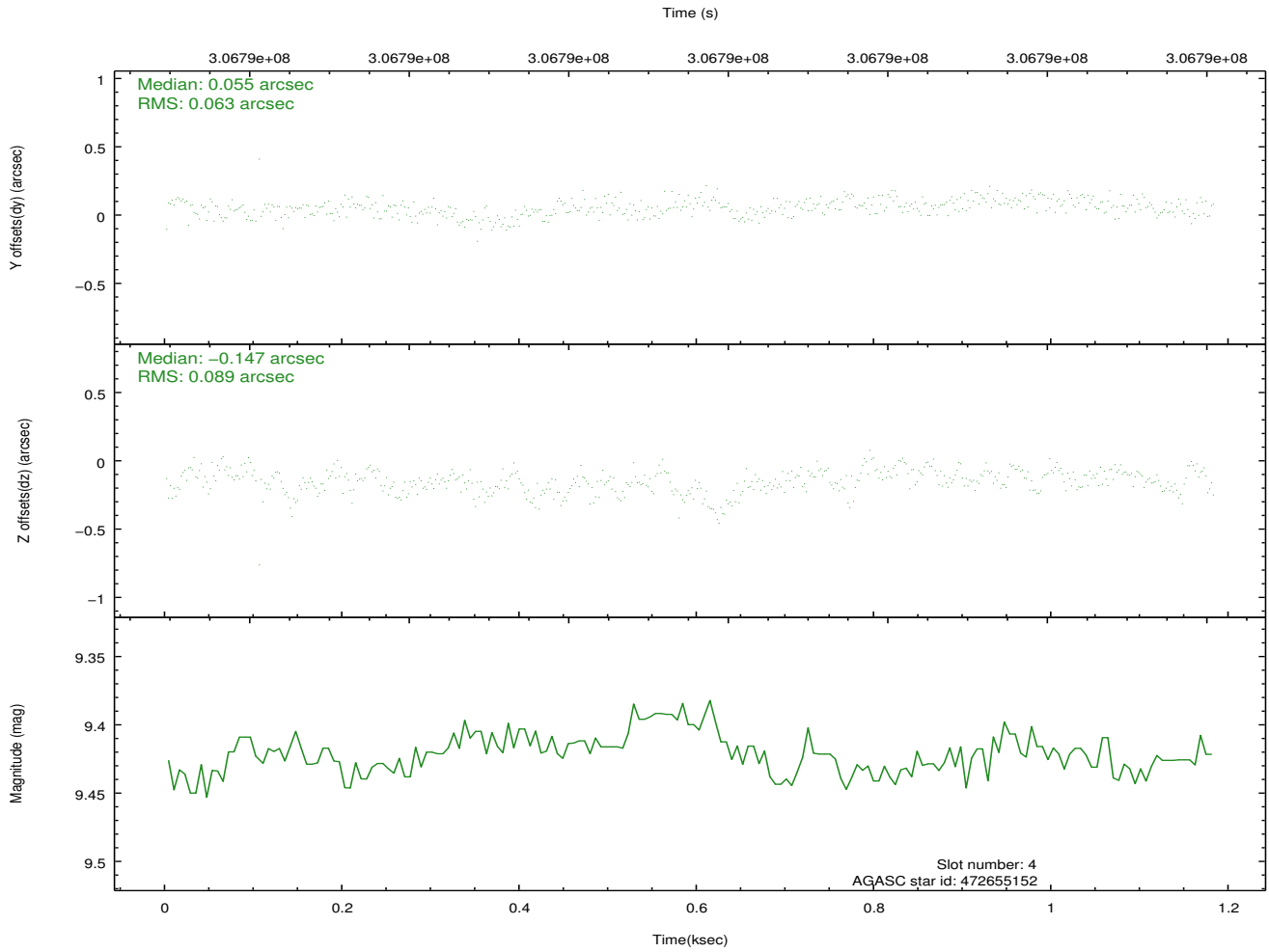
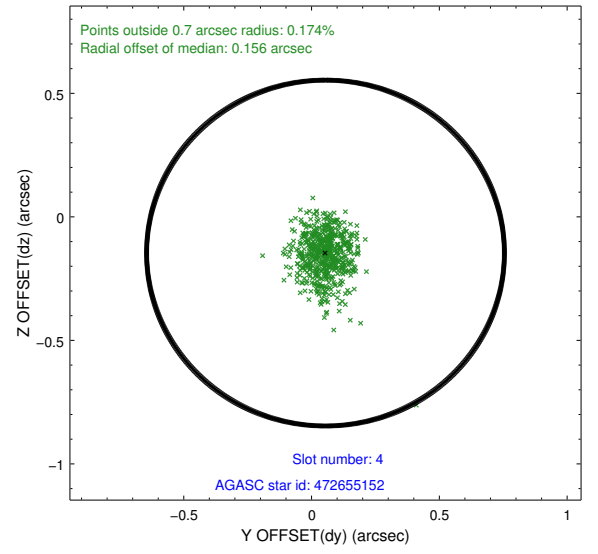
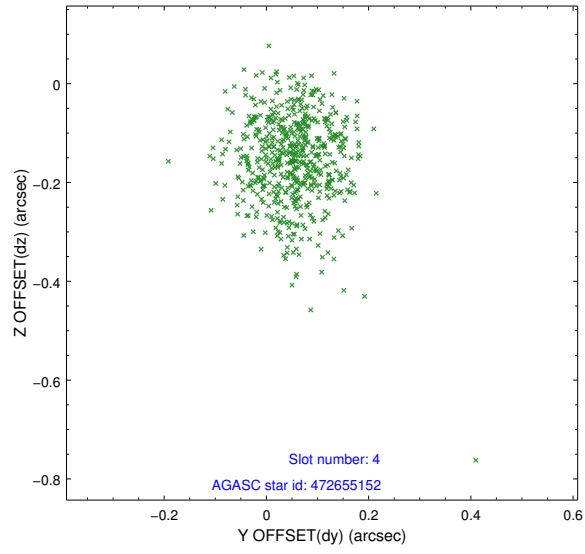


## 2.4 Star Slots

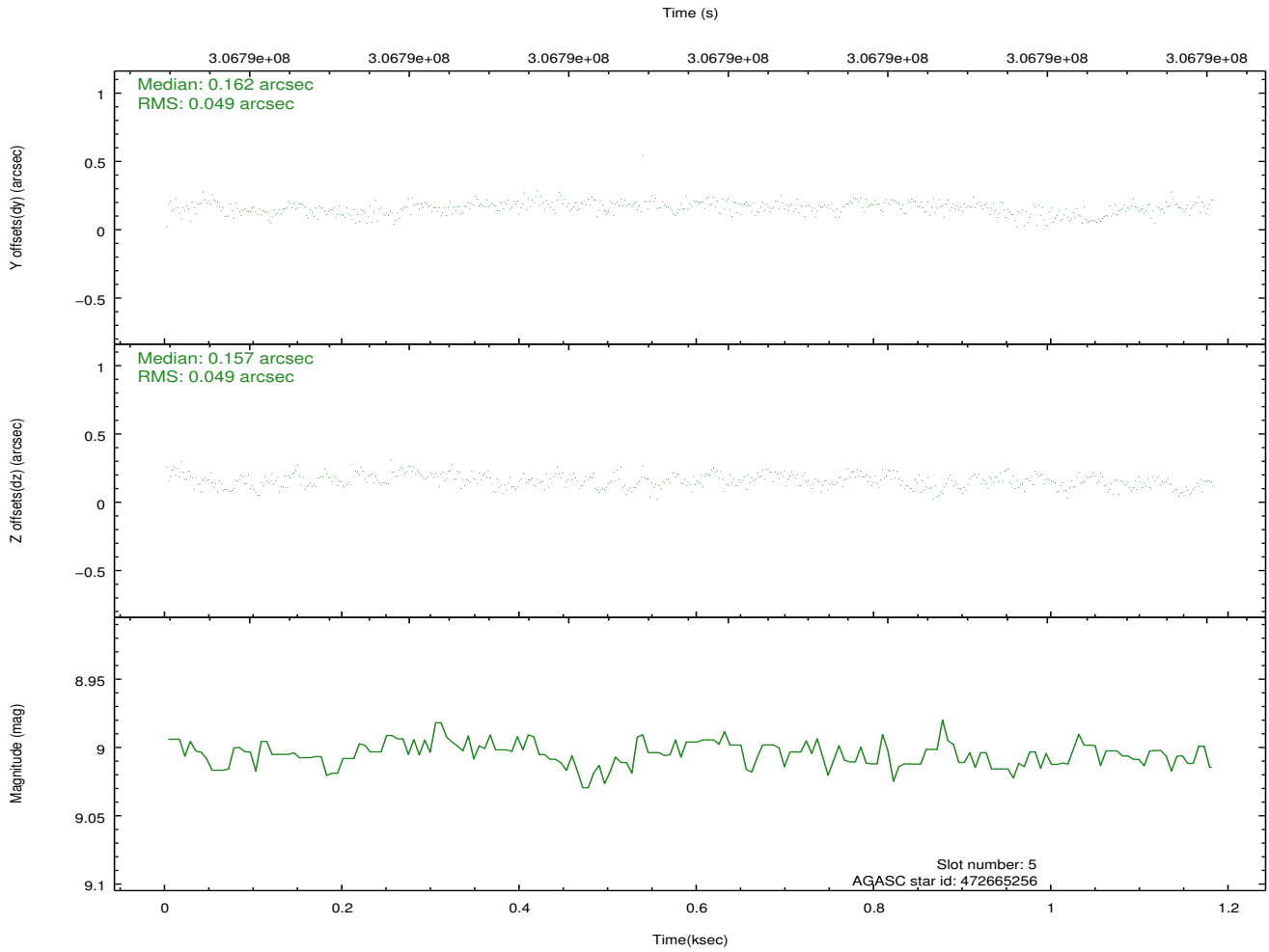
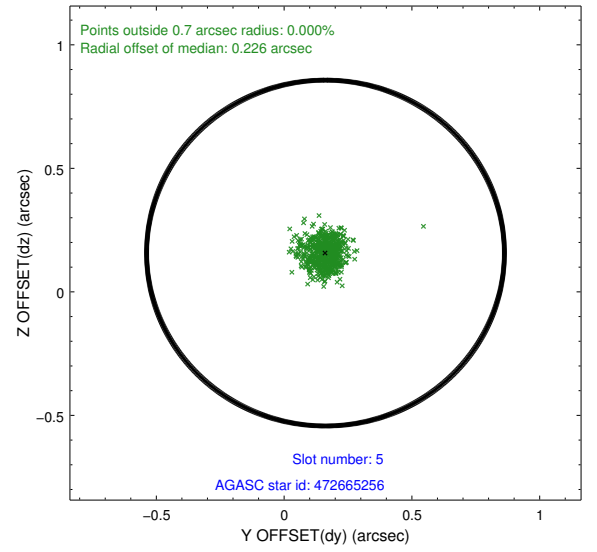
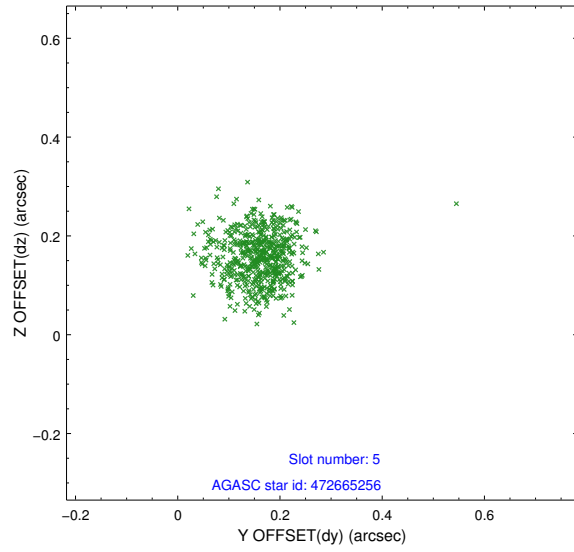
### 2.4.1 Slot 3



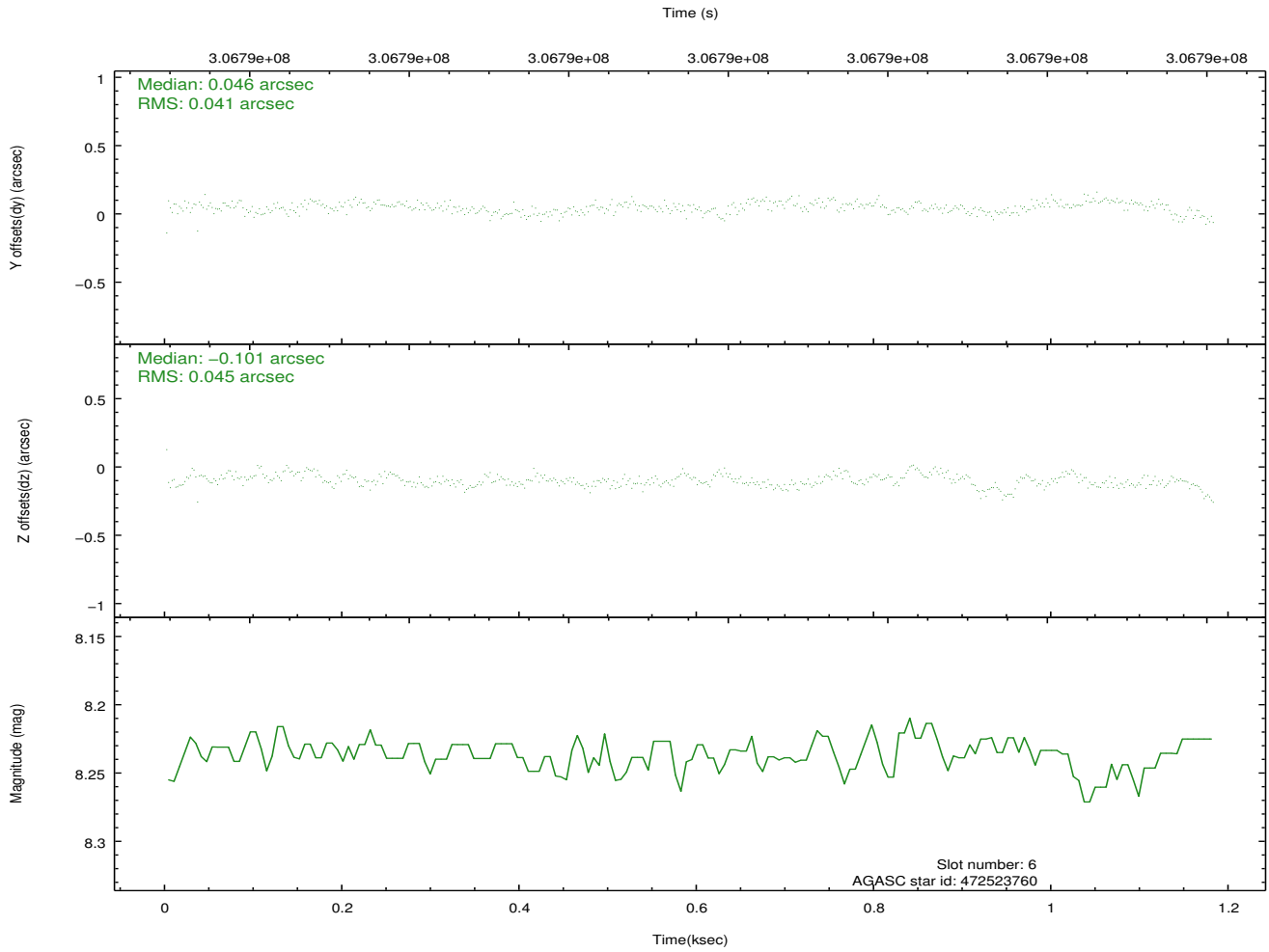
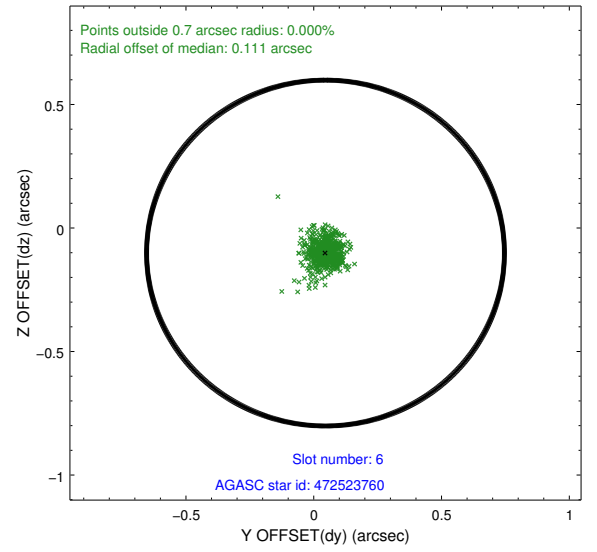
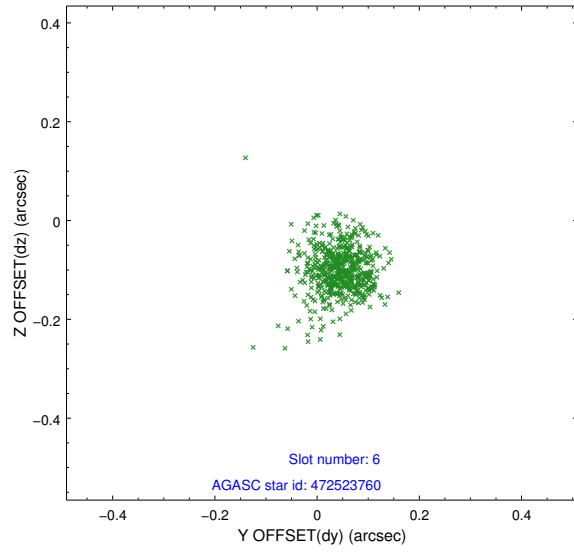
## 2.4.2 Slot 4



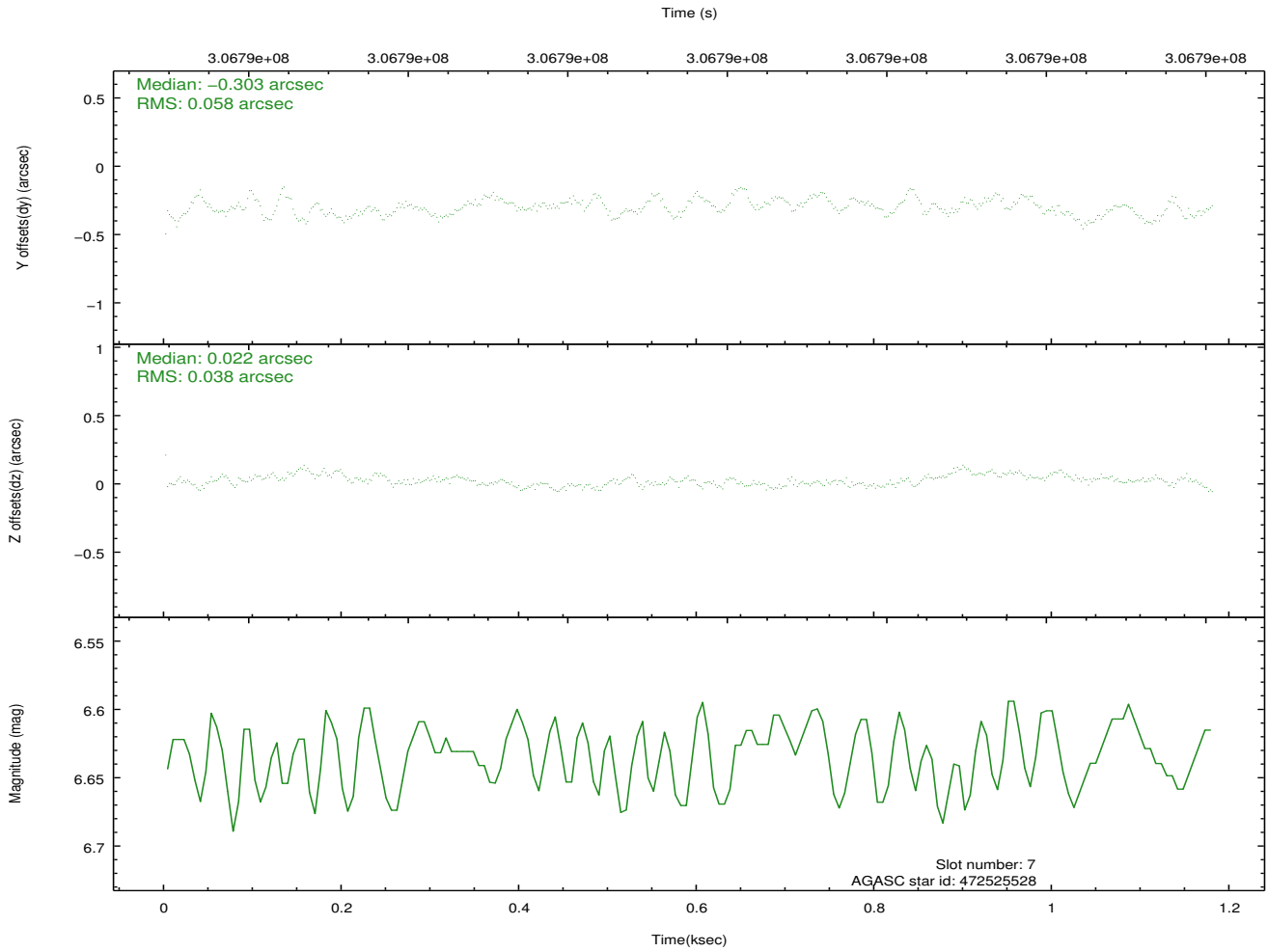
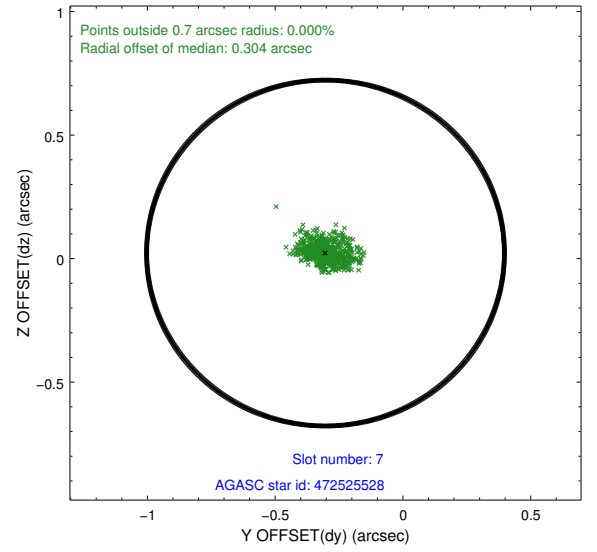
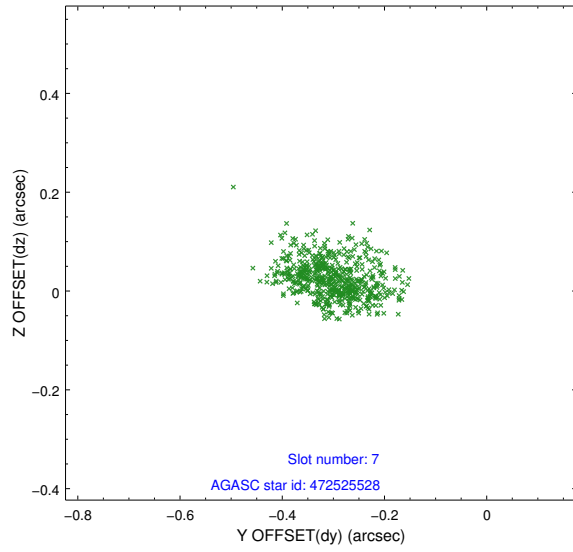
### 2.4.3 Slot 5



## 2.4.4 Slot 6

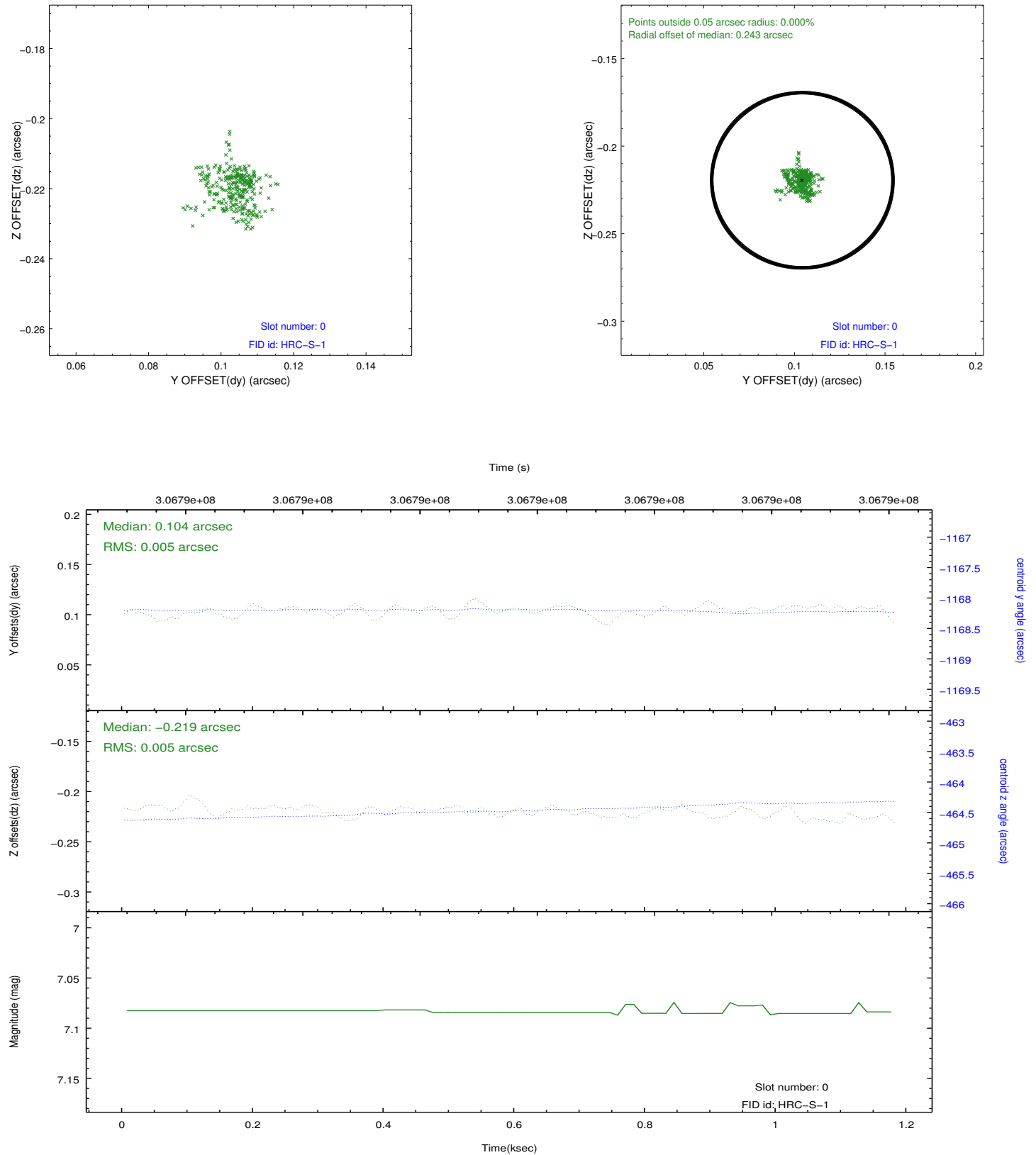


## 2.4.5 Slot 7

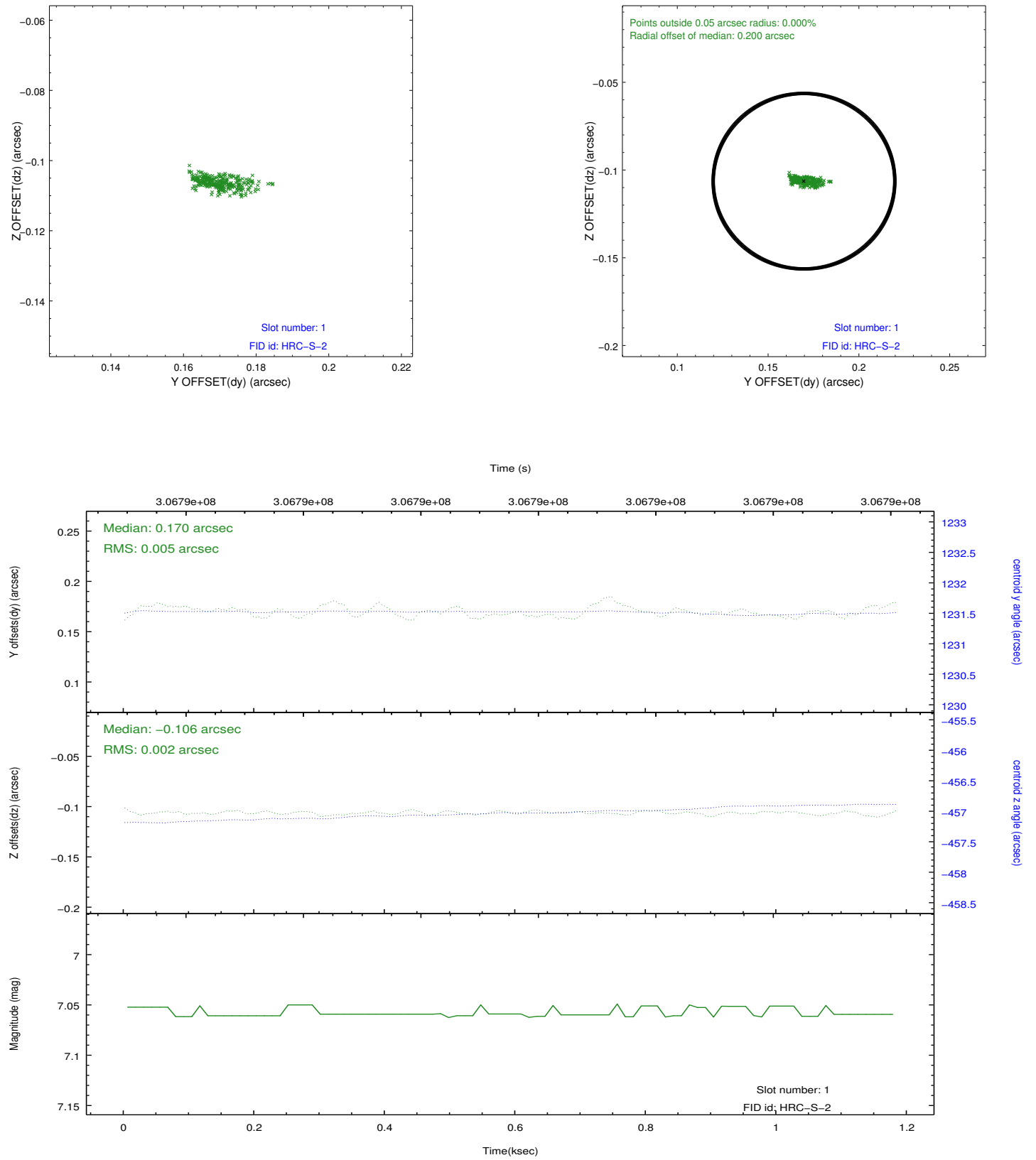


## 2.5 FID Slots

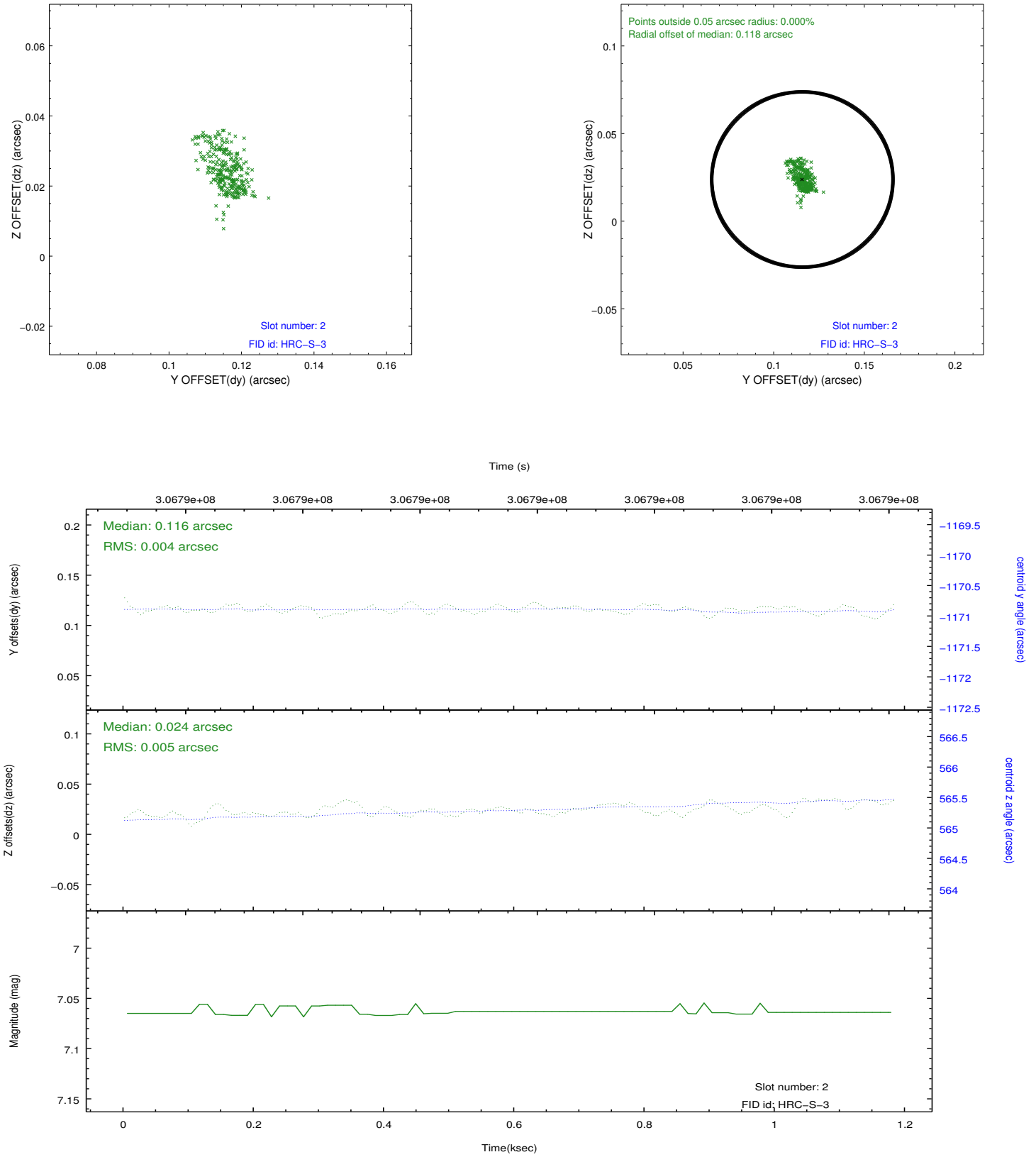
### 2.5.1 Slot 0



## 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)	2012.08.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.1513313

### A.2 Comments