

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 2451 - L2 Version 5  
Chandra X-Ray Center

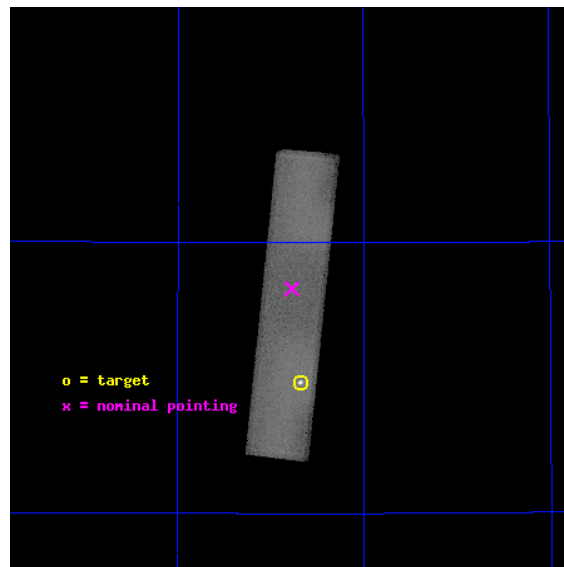
L2 Processing Date : Sep 18 2012

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# 1 Front

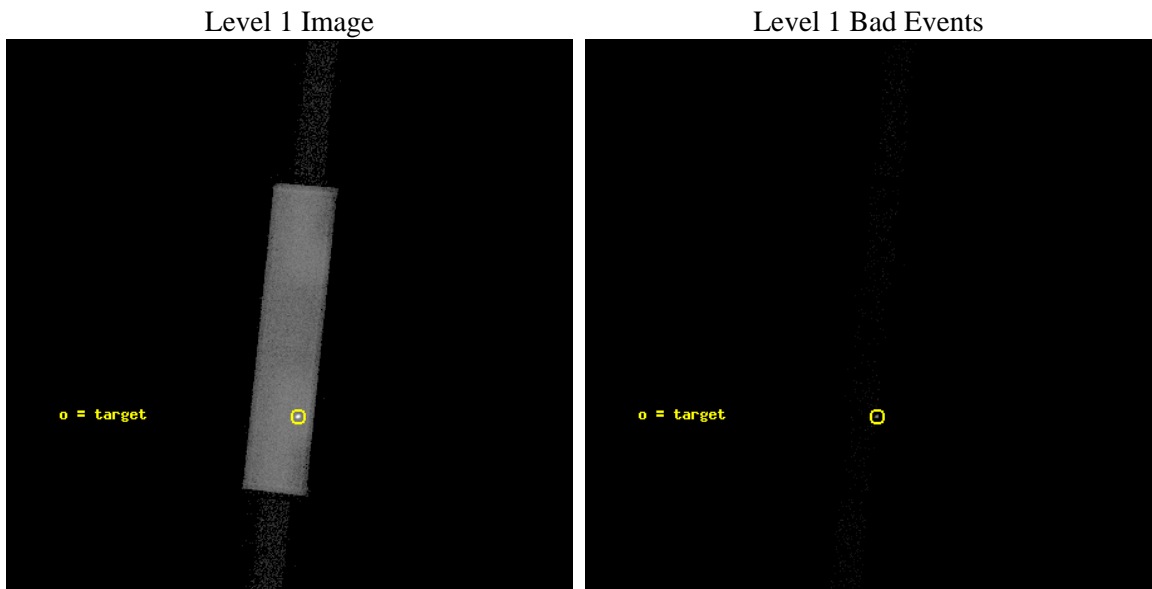
seq_num	290078	Sequence number
obs_id	2451	Observation id
title	HRC-I CALIBRATION OBSERVATIONS OF ARLAC	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ARLAC	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.19307525323	Nominal RA [deg]
dec_nom	45.915132185176	Nominal Dec [deg]
roll_nom	95.860360622661	Nominal Roll [deg]
revision	5	Processing version of data
ontime	1369.6563032269	[s]
livetime	1345.2318687725	Ontime multiplied by DTCOR
l2events	182181	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	1225.360000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	1369.6563032269	[s]
caldsver	4.5.1.1	&#160	l1events	228267	Number of level 1 events
date	2012-09-18T22:55:55	Date and time of file creation			
revision	4	Processing version of data			

### 2.1.3 Events

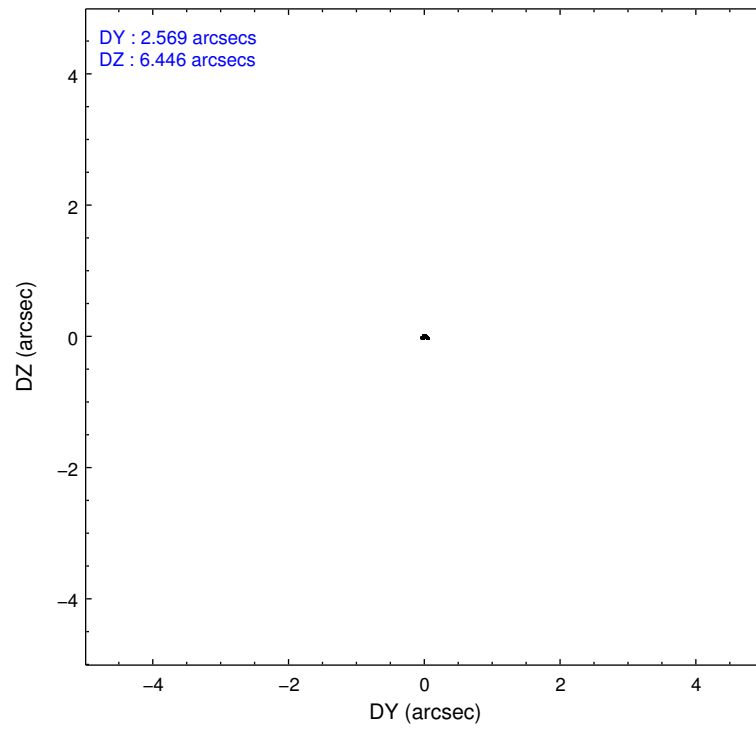
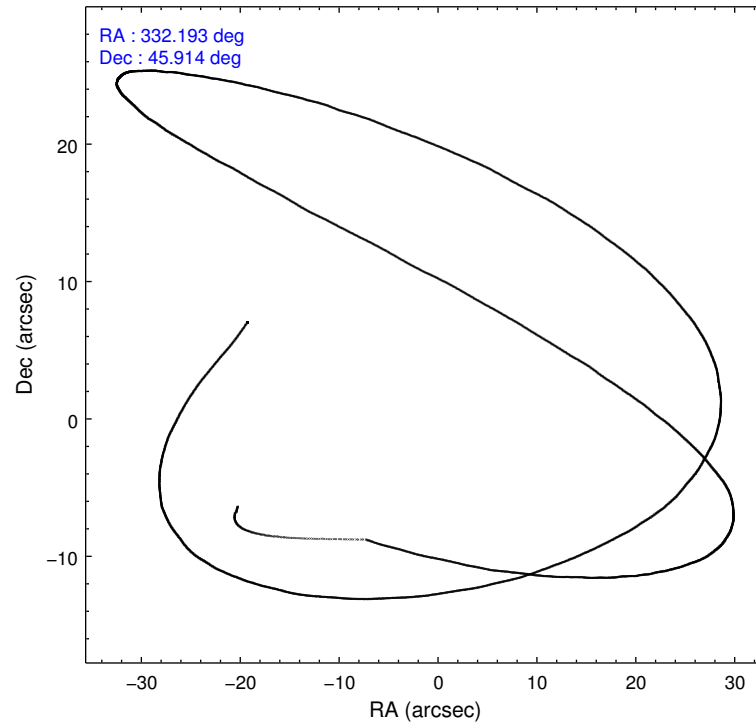
Level 1 Events

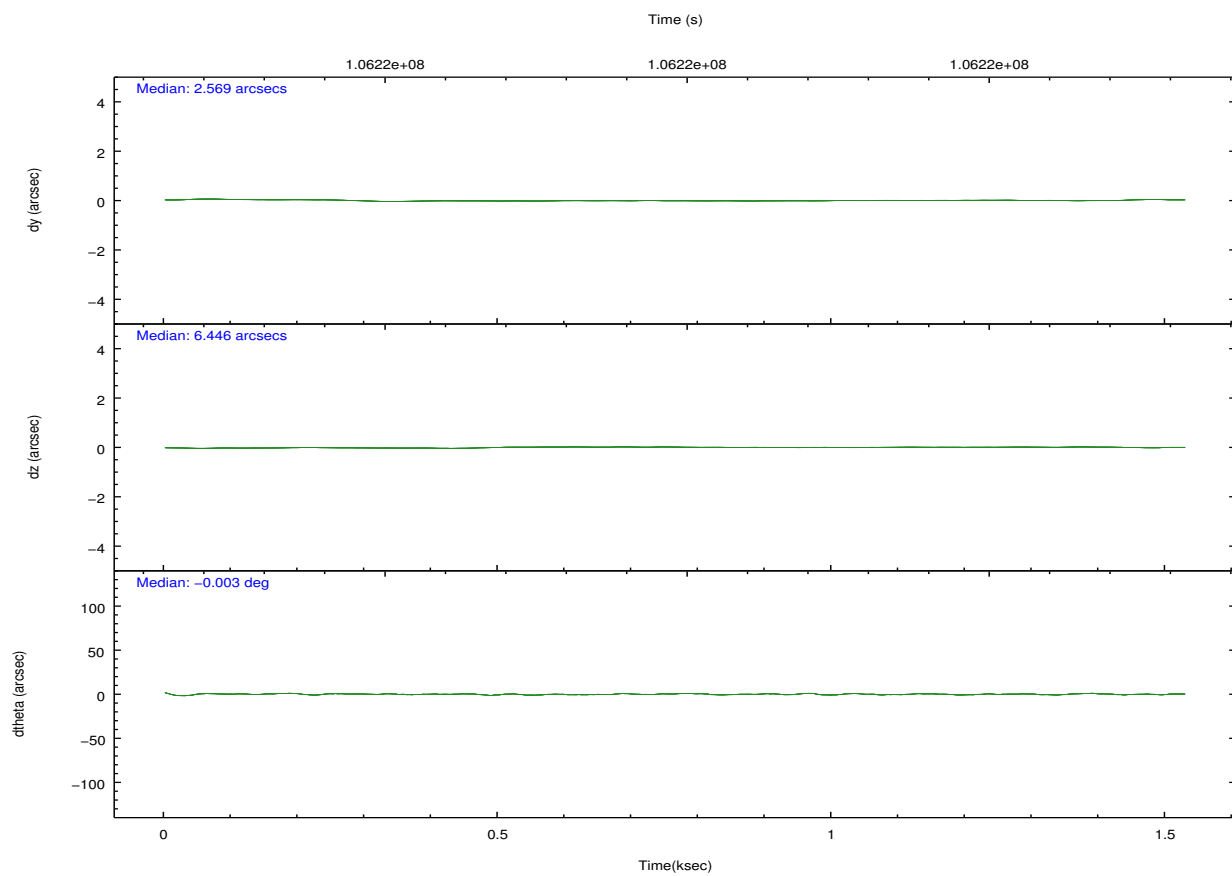
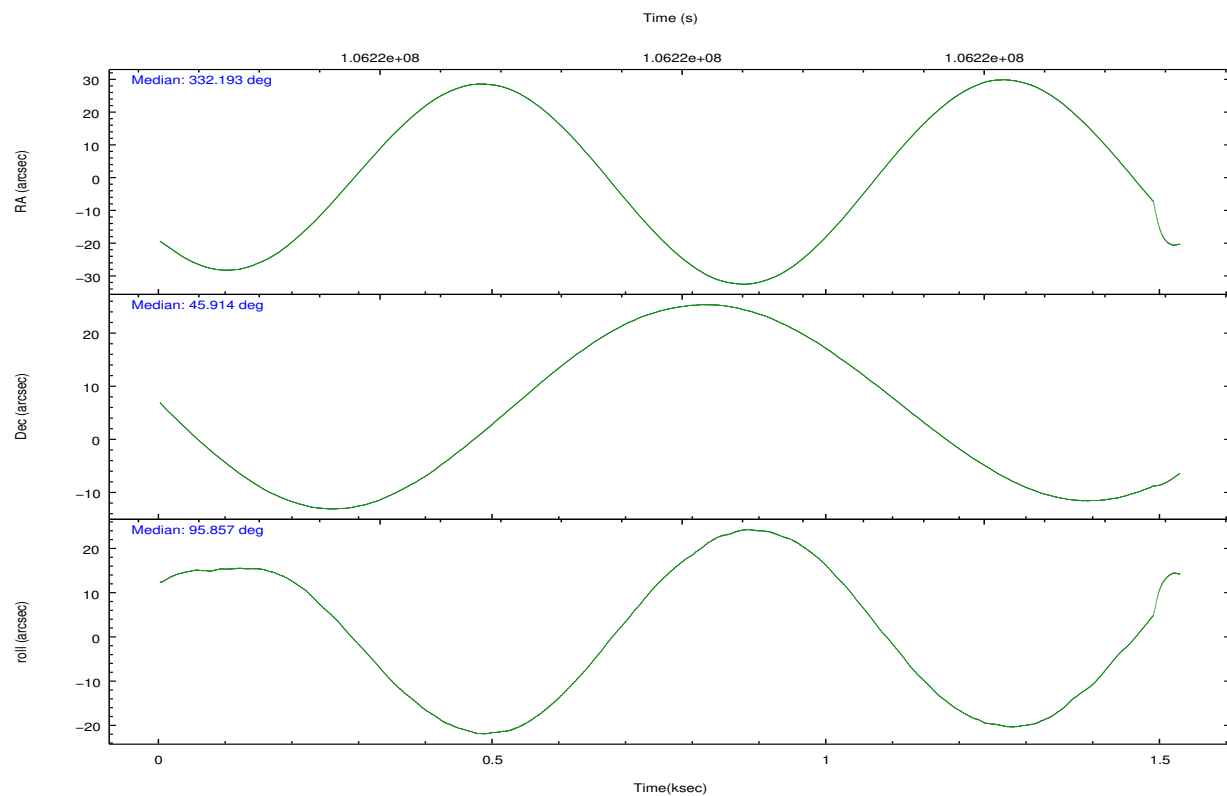
	<b>segment 1</b>	<b>segment 2</b>	<b>segment 3</b>
level 1 events	3692	221403	3172
rejected events	3692	25197	3172
rejected %	100%	11%	100%

## 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	332.218616	332.1930752532316			
[deg] Pointing Dec	45.893834	45.91513218517601			
[deg] Pointing Roll	95.774699	95.86036062266068			
[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)	106221403.184000	106221026.88397			
Observation start date	2001-05-14T09:55:39	2001-05-14T09:50:26			
[s] Observation end time (MET)	106222628.184000	106223409.49657			
Observation end date	2001-05-14T10:16:04	2001-05-14T10:30:09			

## 2.3 Aspect





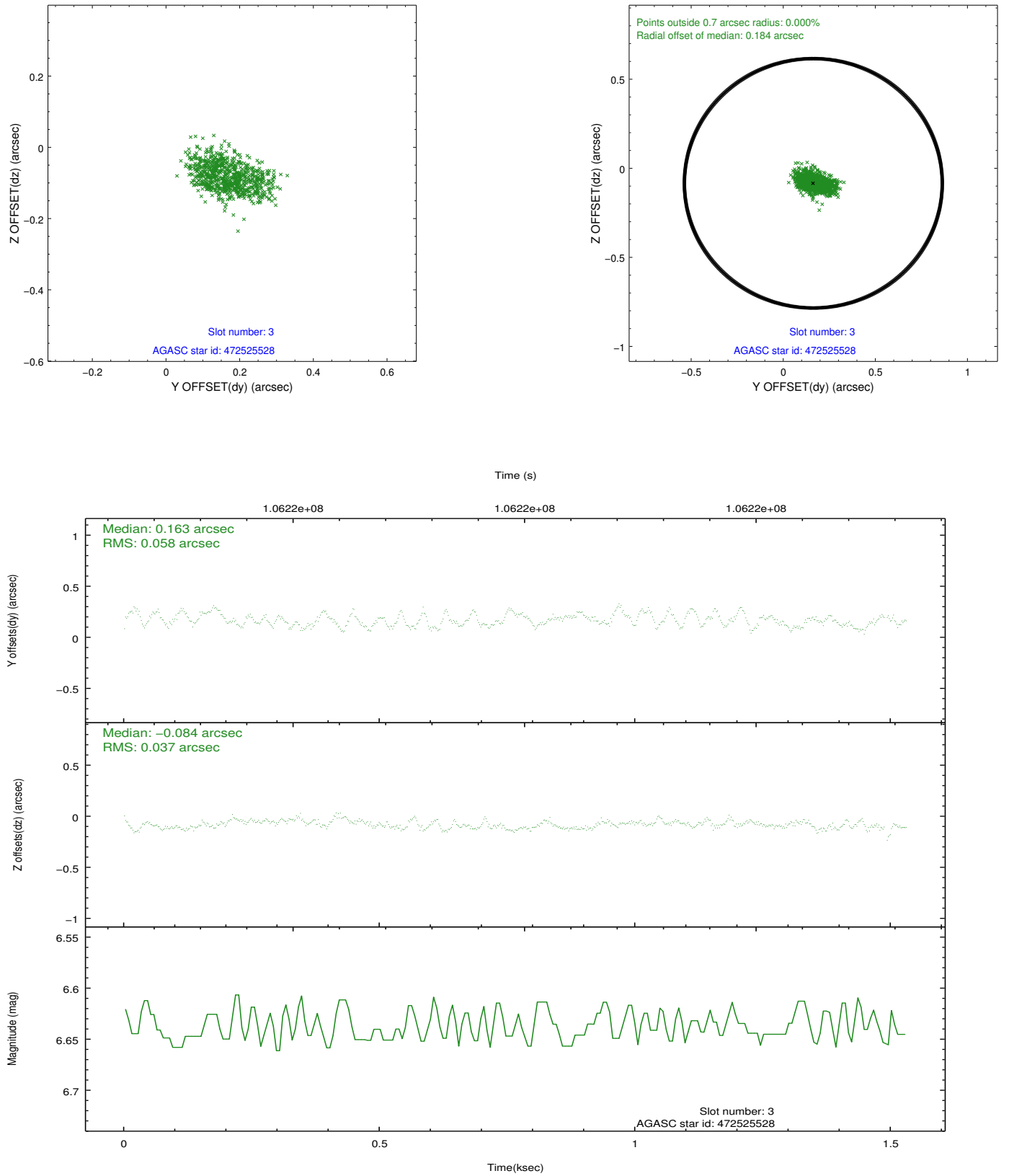
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-S-1	6.97	368	0.135	-0.104	0.006	0.009	0.000000	0.000000	-1156.61	-454.95
1	FID	HRC-S-2	6.98	368	0.120	-0.098	0.005	0.008	0.000000	0.000000	1239.92	-448.83
2	FID	HRC-S-3	7.00	366	0.135	-0.099	0.006	0.011	0.000000	0.000000	-1155.93	573.36
3	GUIDE	472525528	6.64	745	0.163	-0.084	0.073	0.119	331.551102	45.248694	-2129.67	1915.05
4	GUIDE	472535576	7.85	745	-0.108	-0.074	0.054	0.086	331.438373	46.291802	1630.93	1787.52
5	GUIDE	472536328	8.12	745	-0.143	-0.019	0.050	0.079	331.496671	46.454831	2203.38	1578.96
6	GUIDE	472523760	8.24	745	0.138	0.048	0.071	0.114	331.645363	45.403260	-1599.38	1619.87
7	GUIDE	472663088	9.02	744	-0.055	0.127	0.094	0.151	332.931735	46.600119	2361.91	-2010.25

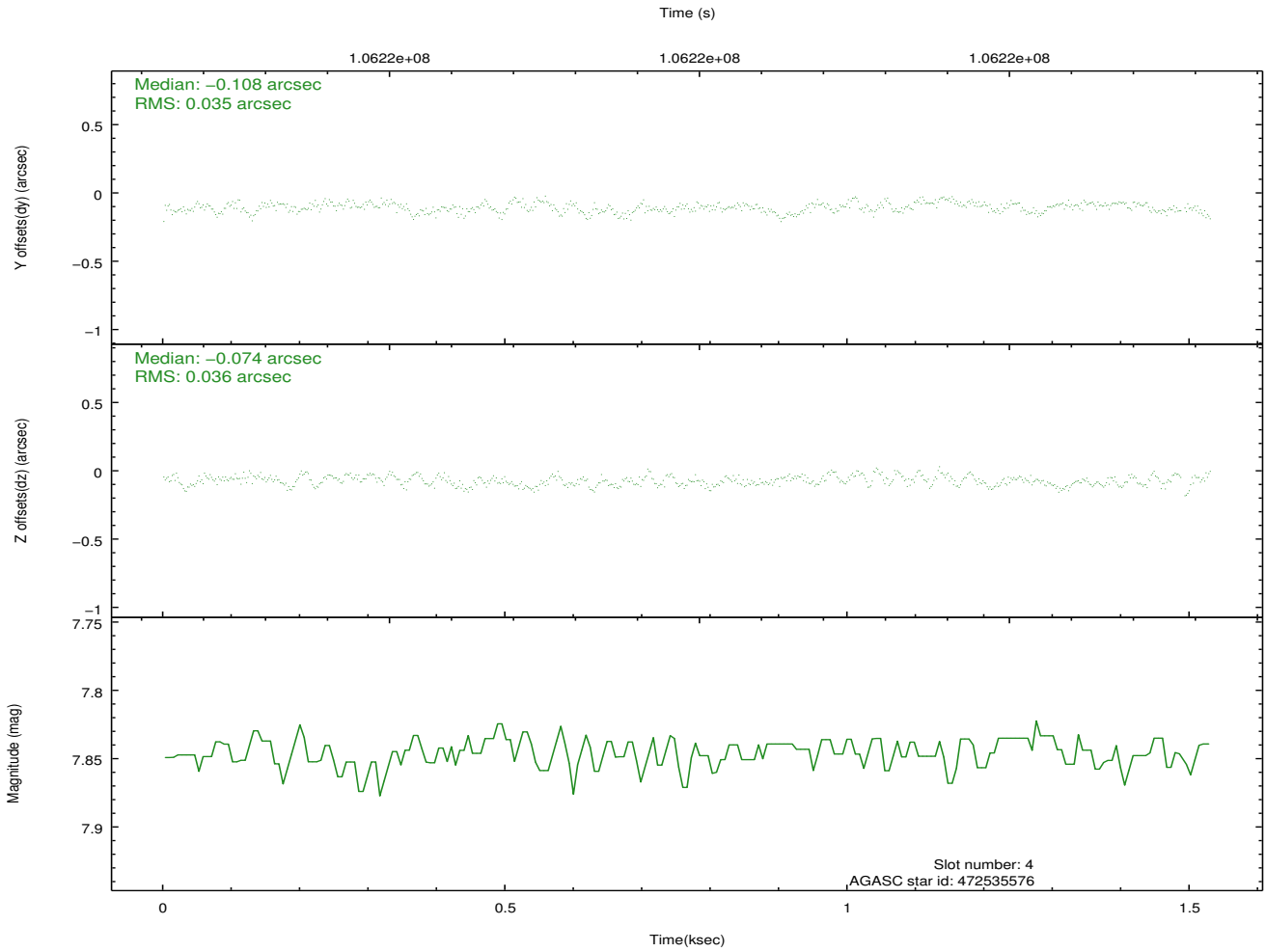
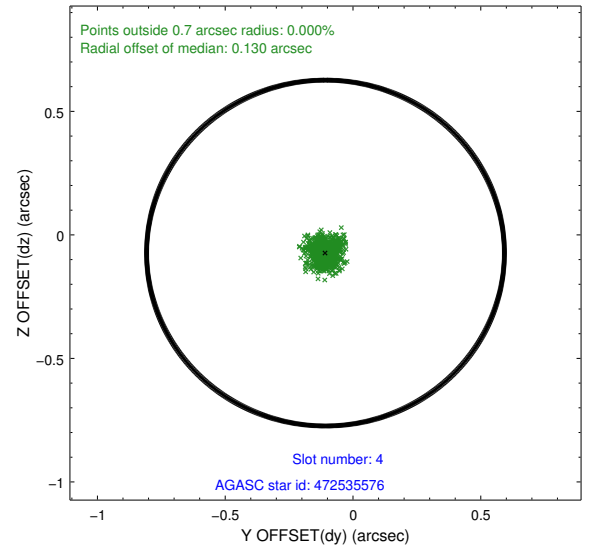
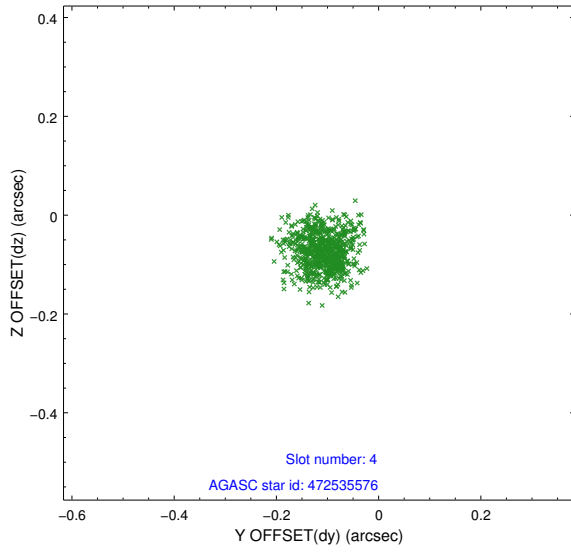


## 2.4 Star Slots

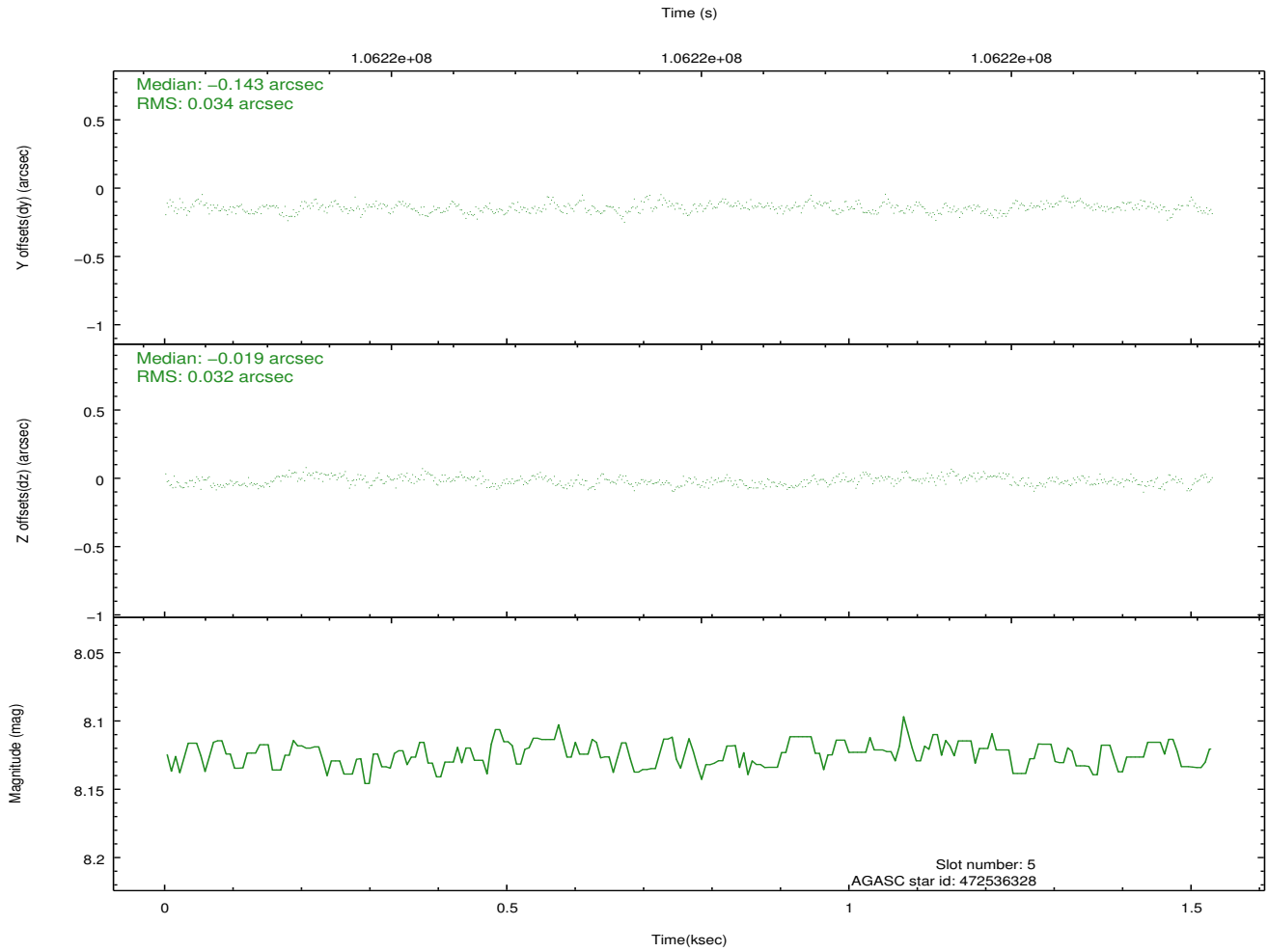
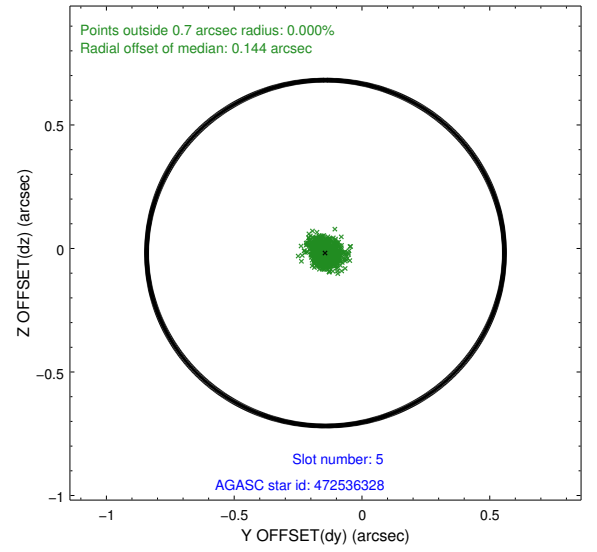
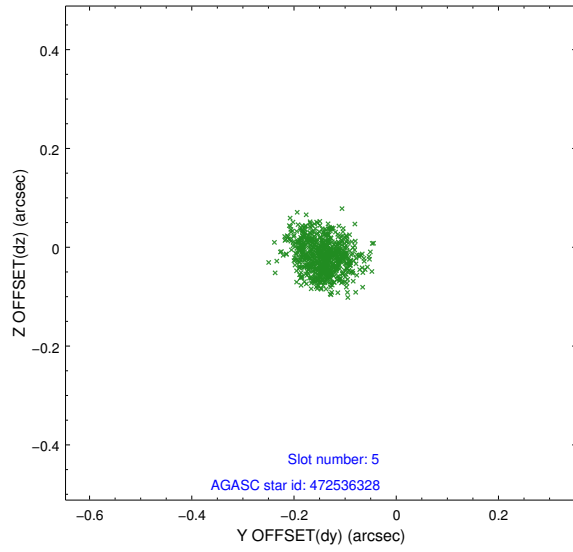
### 2.4.1 Slot 3



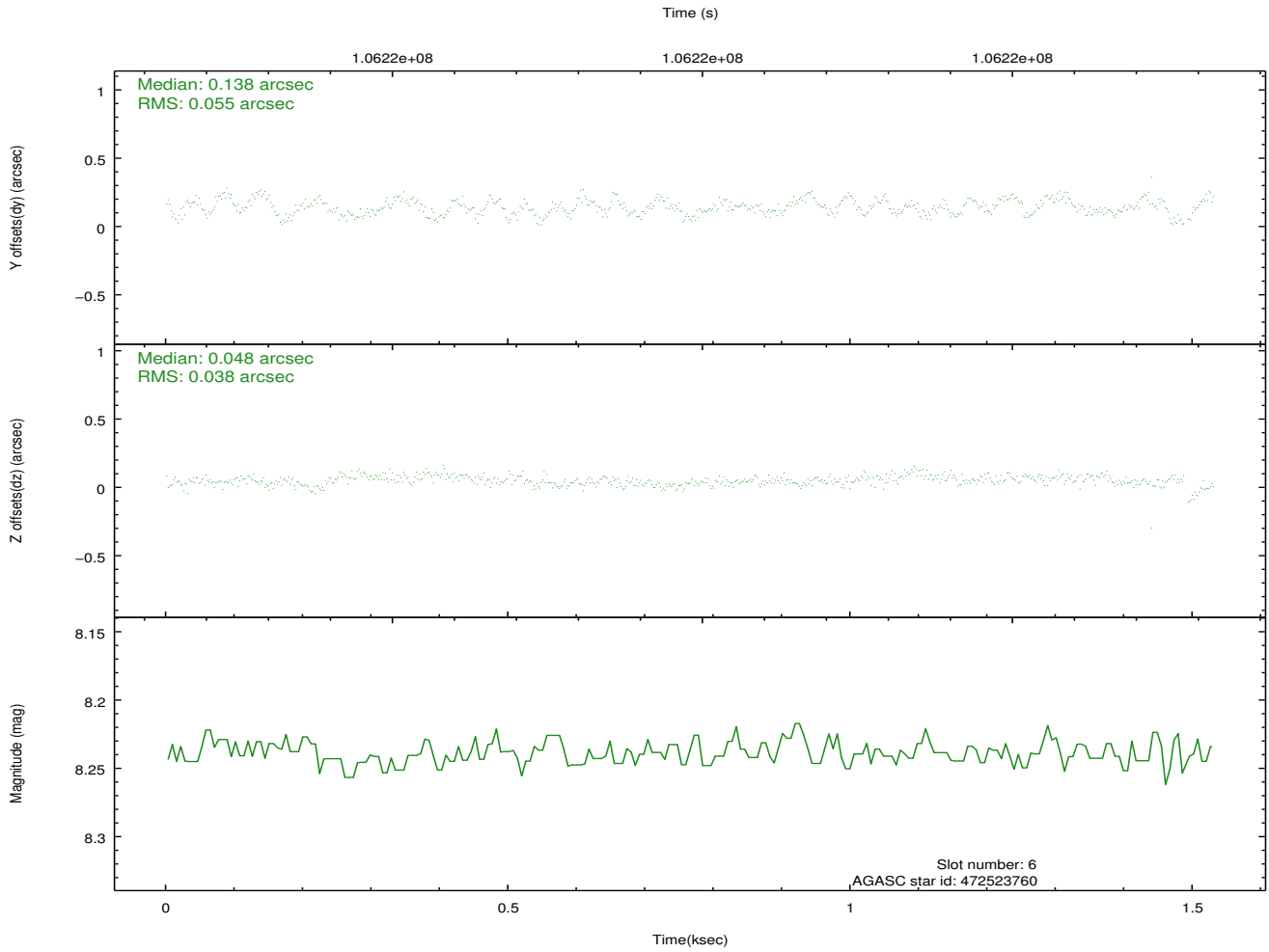
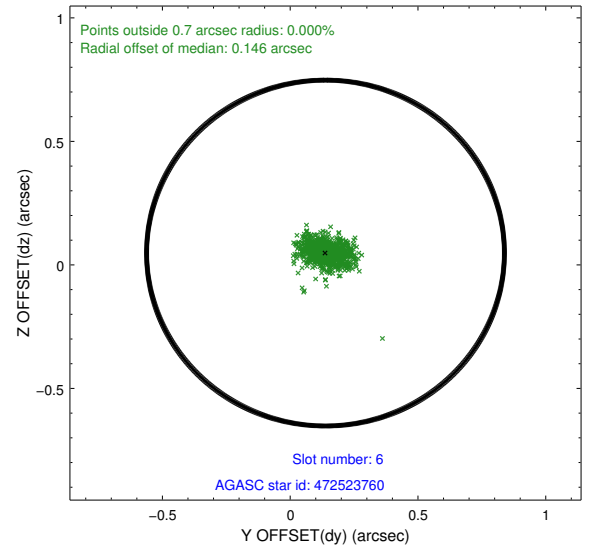
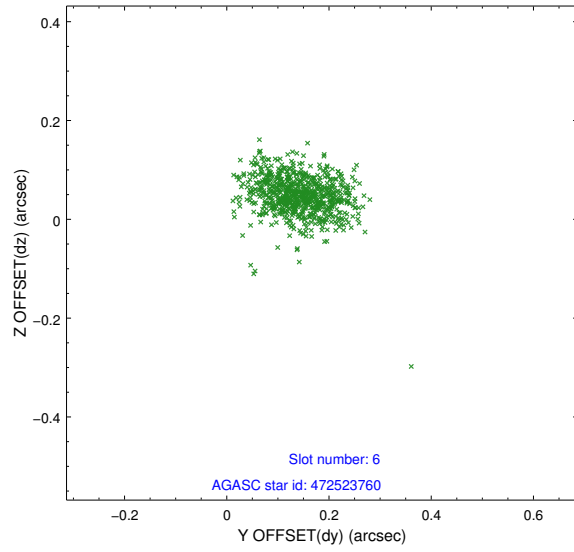
## 2.4.2 Slot 4



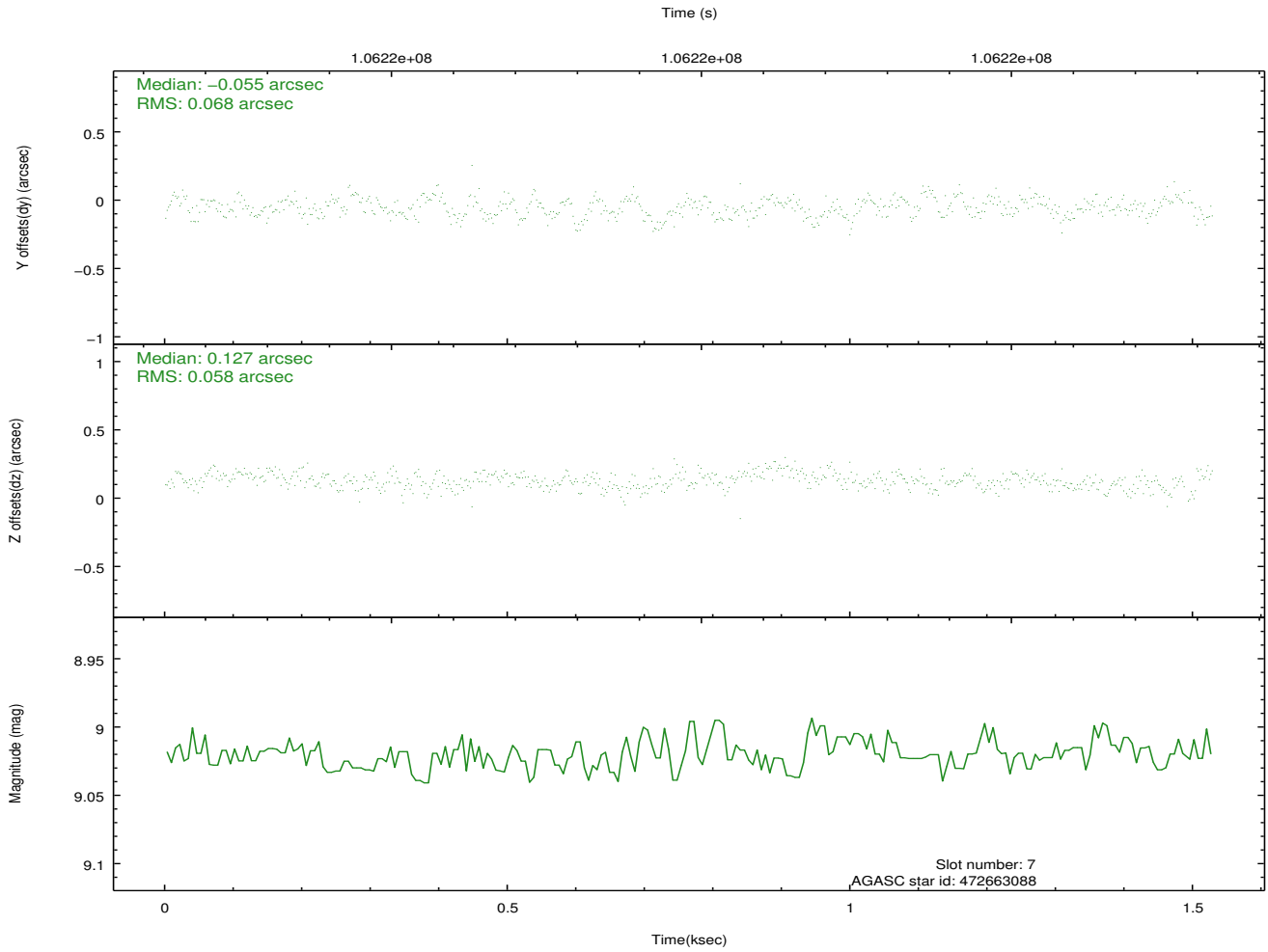
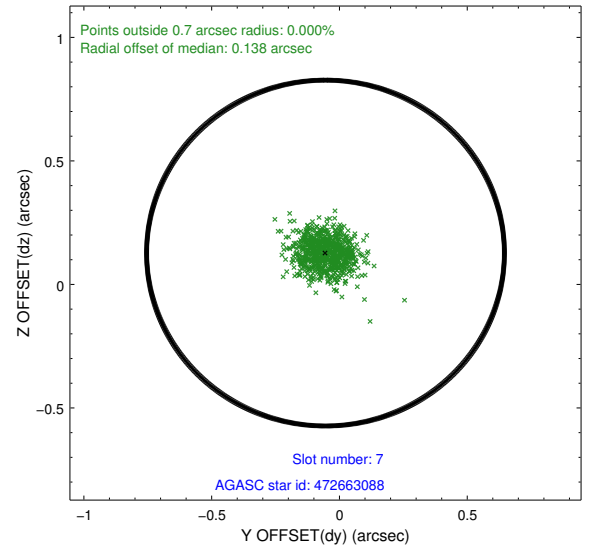
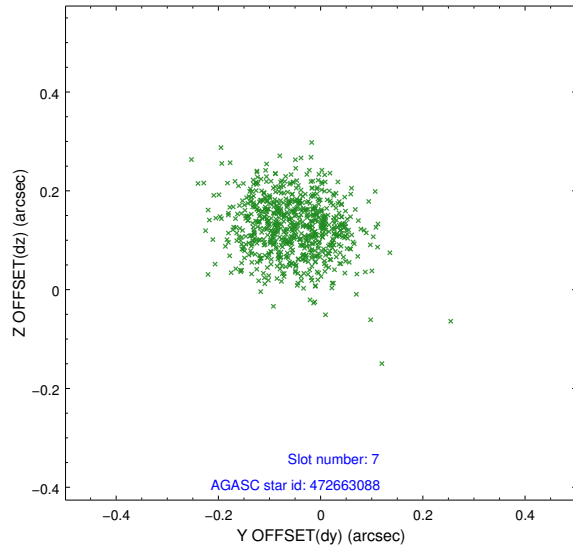
### 2.4.3 Slot 5



## 2.4.4 Slot 6

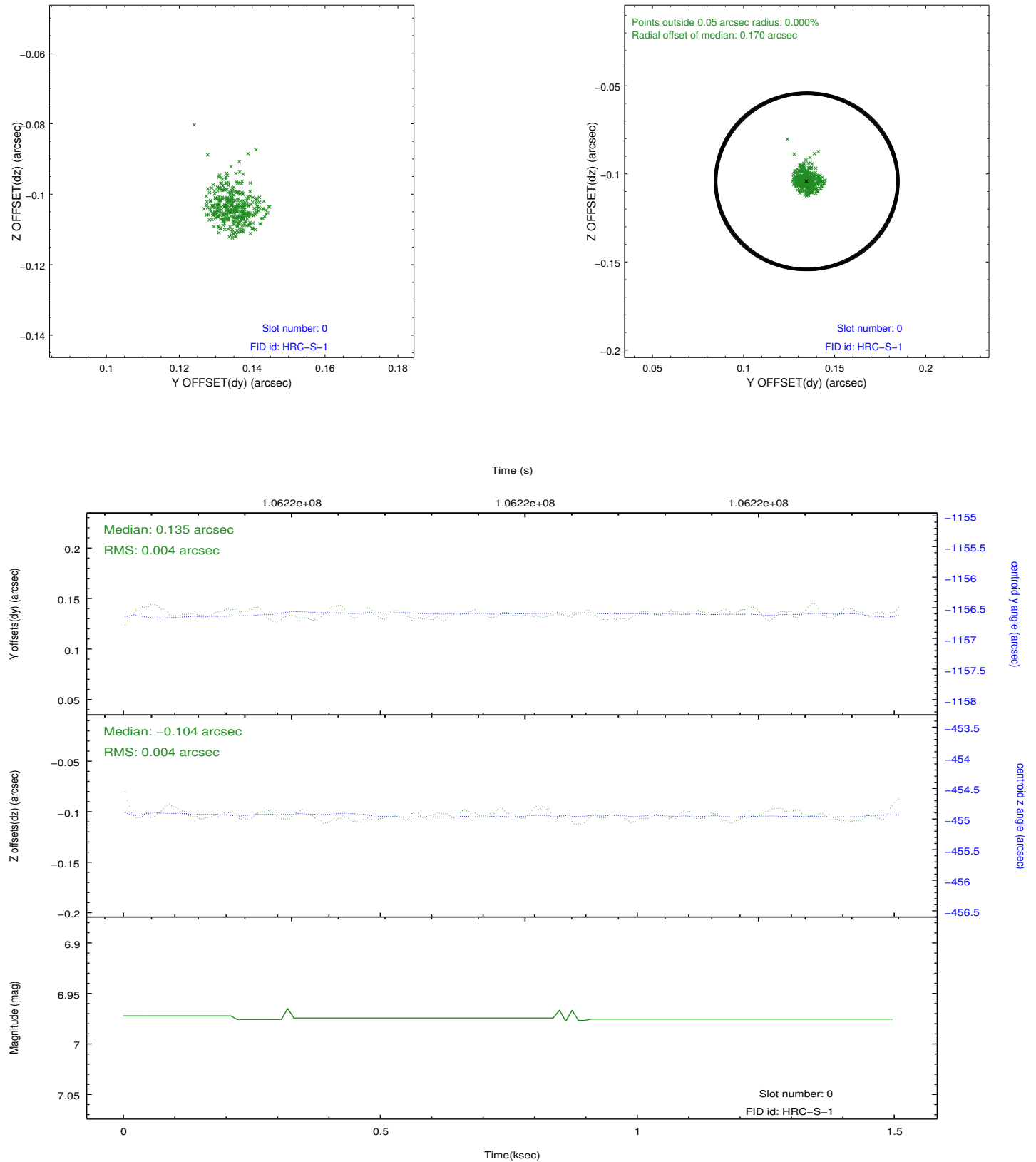


## 2.4.5 Slot 7

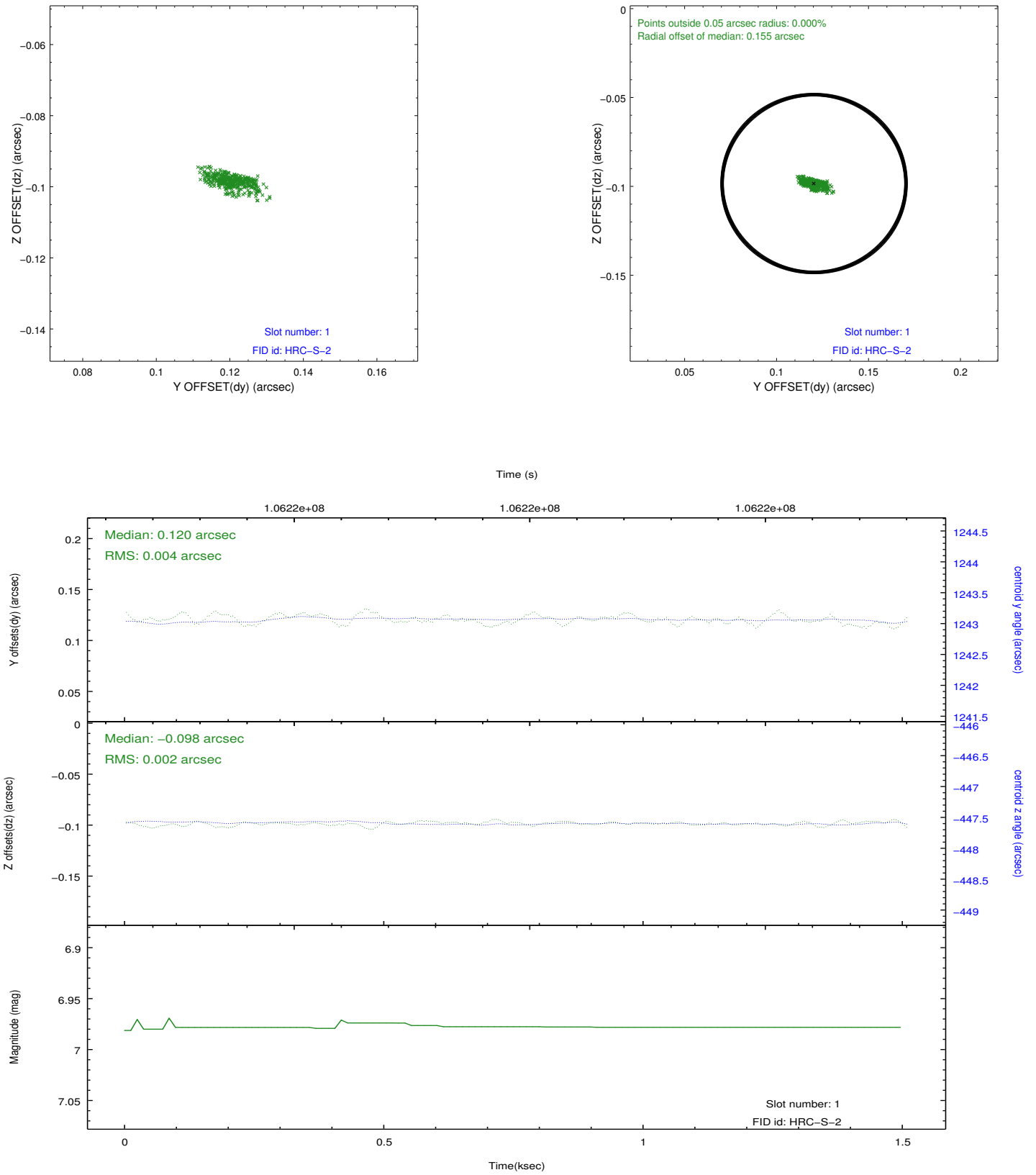


## 2.5 FID Slots

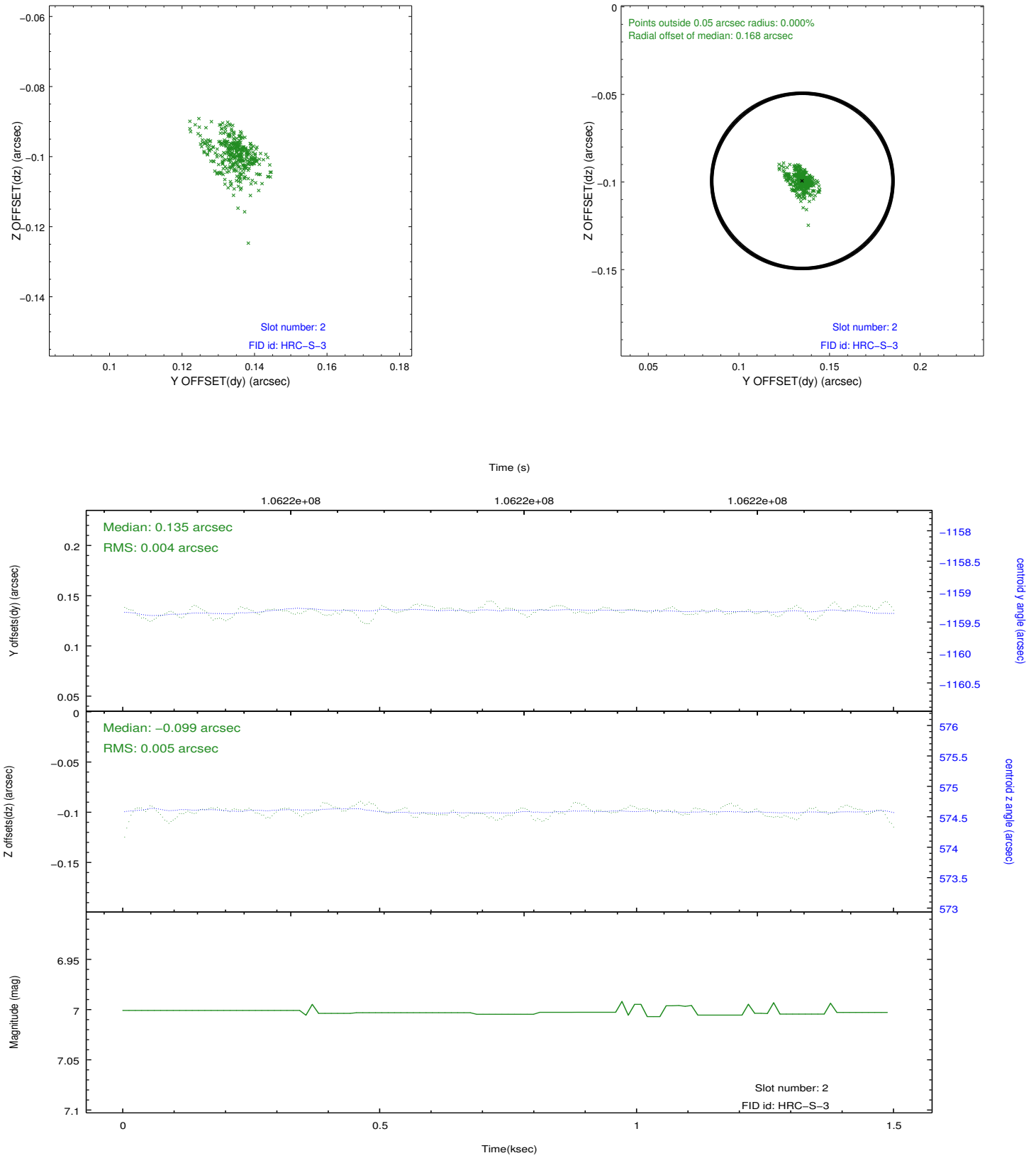
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2





## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.09.21
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.41

### A.2 Comments

Charge time for this observation remains at previous value of 1.41 ksec.