

# V&V Reference Report

## L2 ASCDS Version : 10.2.1

Observation 15752 - L2 Version 2  
Chandra X-Ray Center

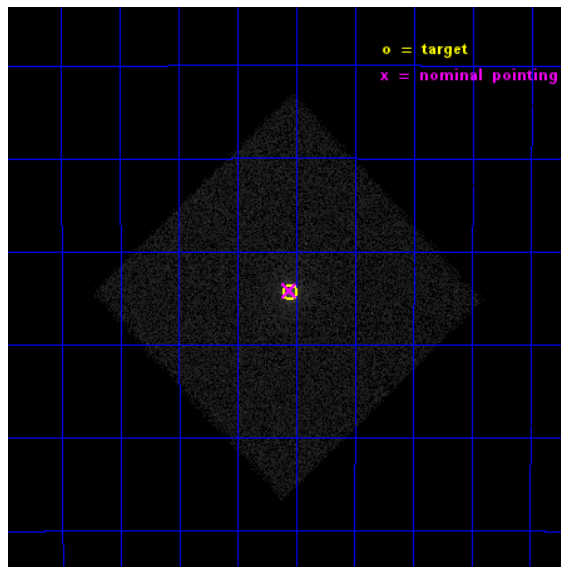
L2 Processing Date : Dec 10 2014

## 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

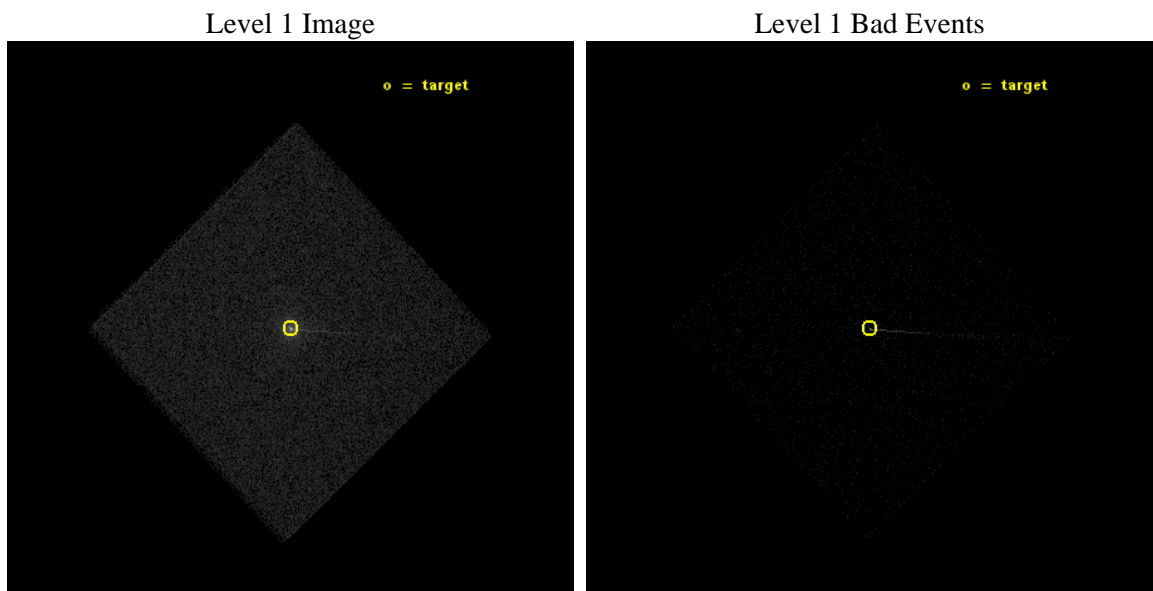
seq_num	401549	Sequence number
obs_id	15752	Observation id
title	Precise Localization of Transient Low-Mass X-ray Binaries	Proposal
observer	Prof. Deepto Chakrabarty	Principal investigator
object	GRO J1744-28	Source name
ra_targ	266.137875	Observer's specified target RA [deg]
dec_targ	-28.740833	Observer's specified target Dec [deg]
ra_nom	266.13944736542	Nominal RA [deg]
dec_nom	-28.736678648178	Nominal Dec [deg]
roll_nom	91.318582980583	Nominal Roll [deg]
revision	2	Processing version of data
ontime	1139.0313127637	[s]
livetime	1128.8084881415	Ontime multiplied by DTCOR
l2events	75663	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	10.3.1	Processing system revision	ontime	1139.0313127637	[s]
caldbver	4.6.4	&#160	l1events	186676	Number of level 1 events
date	2014-12-10T08:47:20	Date and time of file creation			
revision	2	Processing version of data			

### 2.1.3 Events

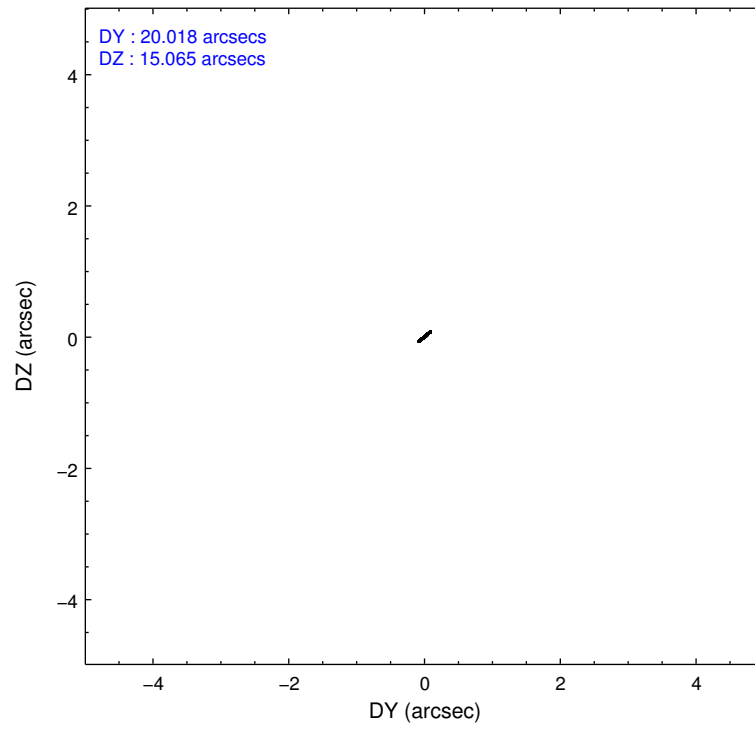
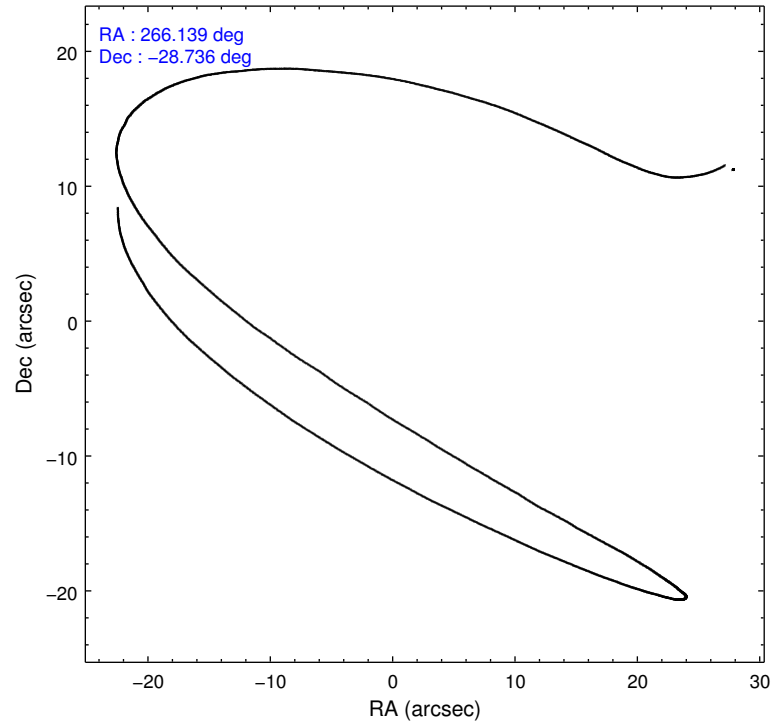
#### Level 1 Events

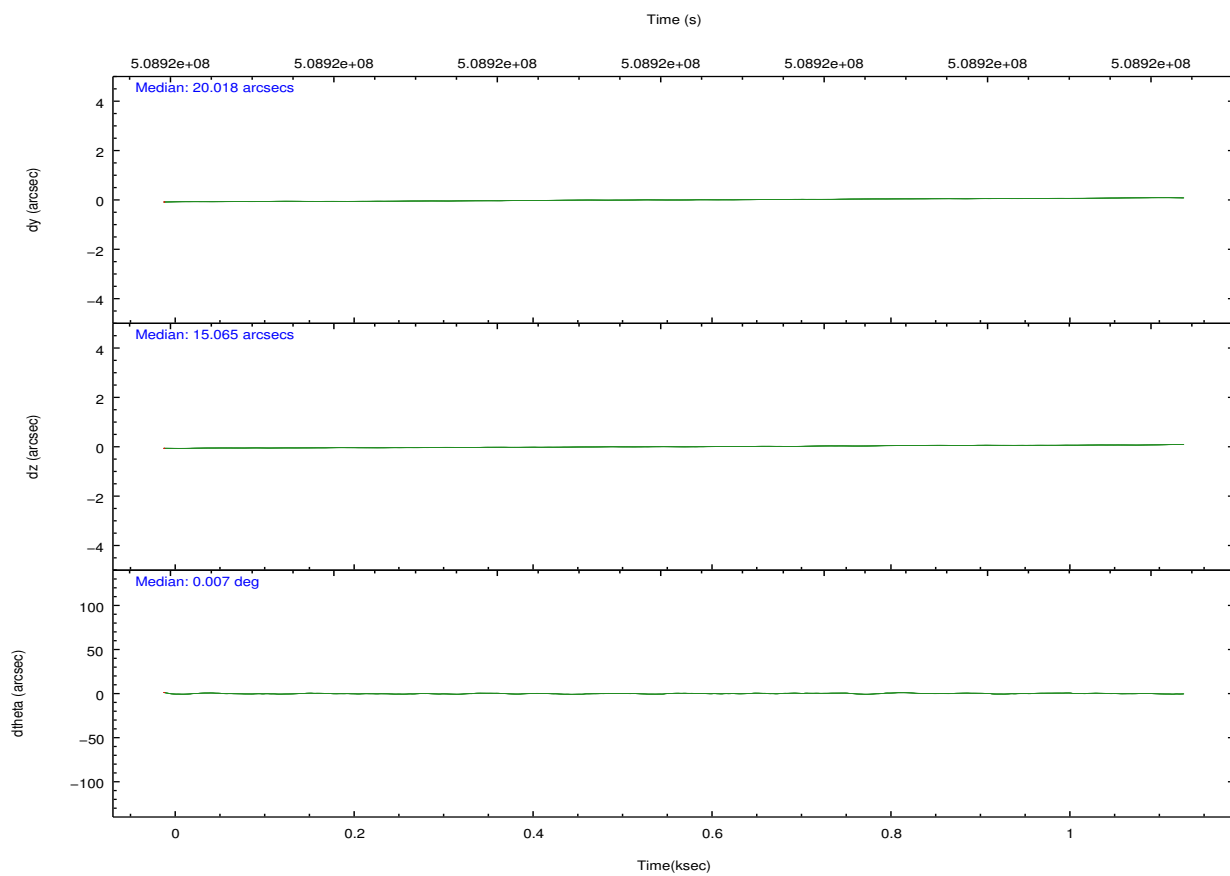
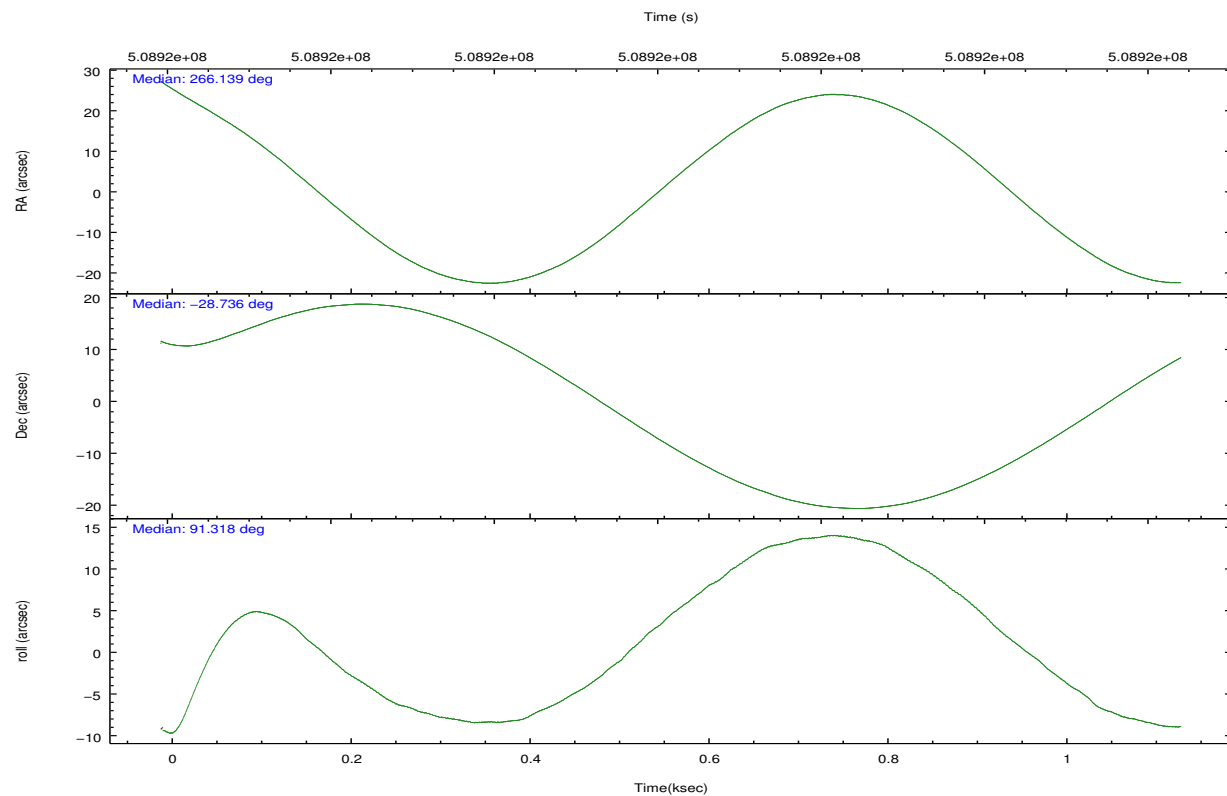
	<b>segment 0</b>
level 1 events	186676
rejected events	88792
rejected %	47%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	HRC	HRC	Obspar format version number	7	7
Detector	HRC-I	HRC-I	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	OBSERVING	OBSERVING			
Observation mode	POINTING	POINTING			
[deg] Pointing RA	266.156278	266.1394473654184			
[deg] Pointing Dec	-28.759768	-28.73667864817828			
[deg] Pointing Roll	91.422457	91.31858298058285			
[mm] SIM focus pos	-1.040293	-1.038866356238299			
[mm] SIM defocus	0	0.001426264420575141			
[mm] SIM translation stage pos	126.985494	126.9829799899862			
[mm] SIM translation stage offset	0	0.002508901615314585			
[s] Observation start time (MET)	508921984.184000	508920935.36393			
Observation start date	2014-02-16T07:11:57	2014-02-16T06:55:35			
[s] Observation end time (MET)	508922984.184000	508923221.11405			
Observation end date	2014-02-16T07:28:37	2014-02-16T07:33:41			

## 2.3 Aspect





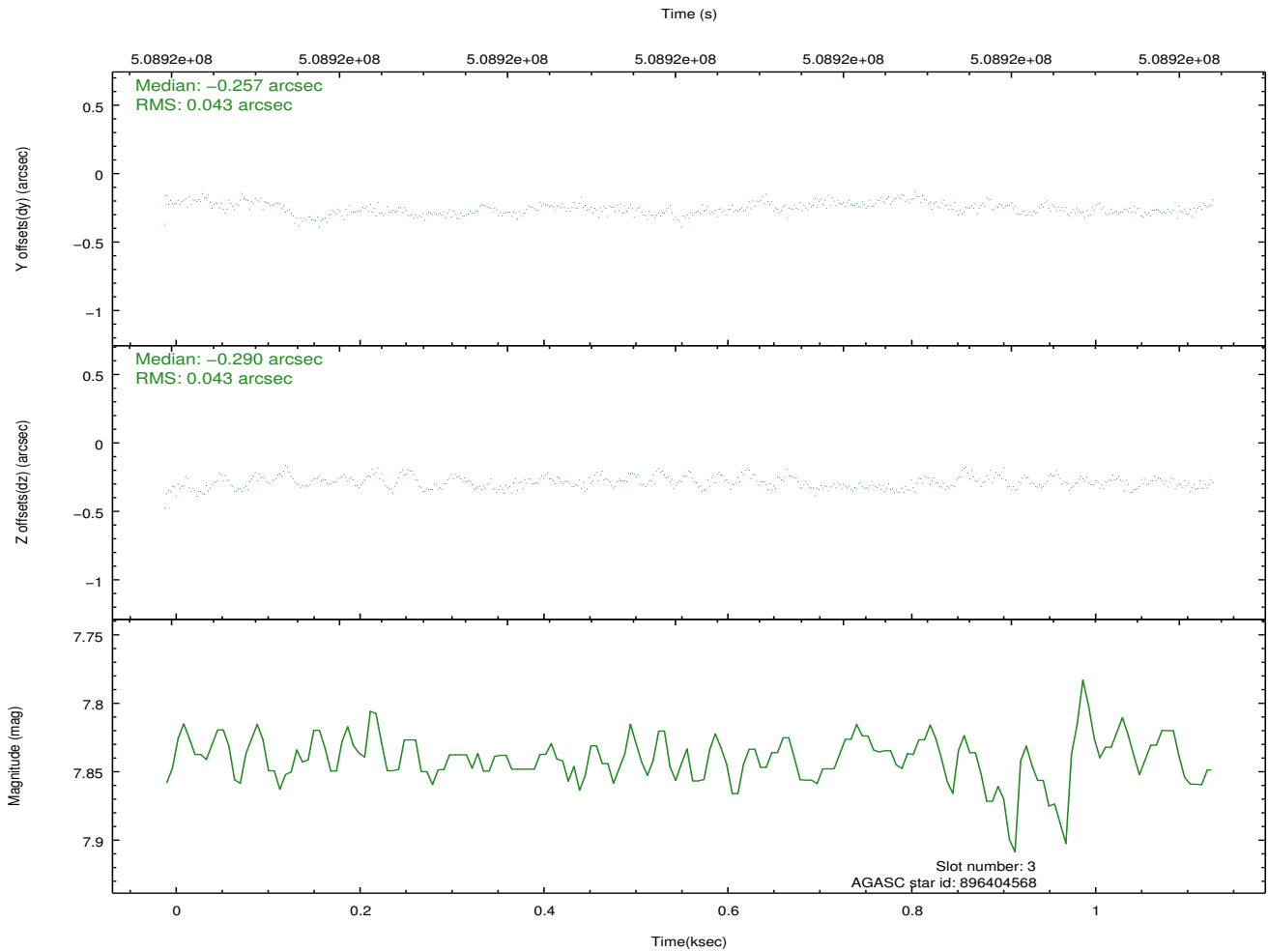
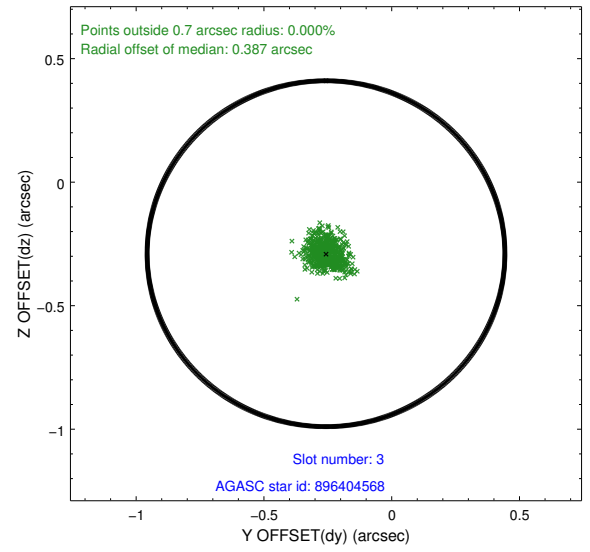
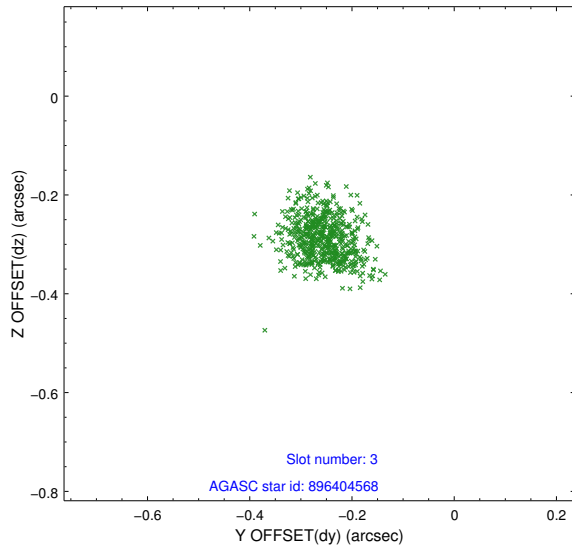
### Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		HRC-I-1	6.93	279	-0.106	0.018	0.006	0.010	0.000000	0.000000	-776.03	-1303.16
1	FID		HRC-I-2	6.98	279	0.202	-0.059	0.006	0.010	0.000000	0.000000	834.12	-1309.44
2	FID		HRC-I-3	7.03	279	0.023	-0.048	0.006	0.012	0.000000	0.000000	-1201.46	996.63
3	GUIDE	used	896404568	7.84	557	-0.257	-0.290	0.064	0.106	265.687293	-28.431080	1216.05	1454.41
4	GUIDE	used	896538696	6.82	557	-0.156	0.233	0.053	0.081	266.298470	-28.325572	1552.64	-486.70
5	GUIDE	used	896540808	7.49	557	0.294	-0.135	0.055	0.090	265.985401	-29.308604	-1959.77	584.03
6	GUIDE	used	896402272	7.58	557	-0.326	-0.294	0.069	0.102	265.637294	-28.313189	1640.07	1605.03
7	GUIDE	used	896533888	7.02	556	0.451	0.490	0.051	0.078	266.666434	-29.392757	-2318.42	-1539.98

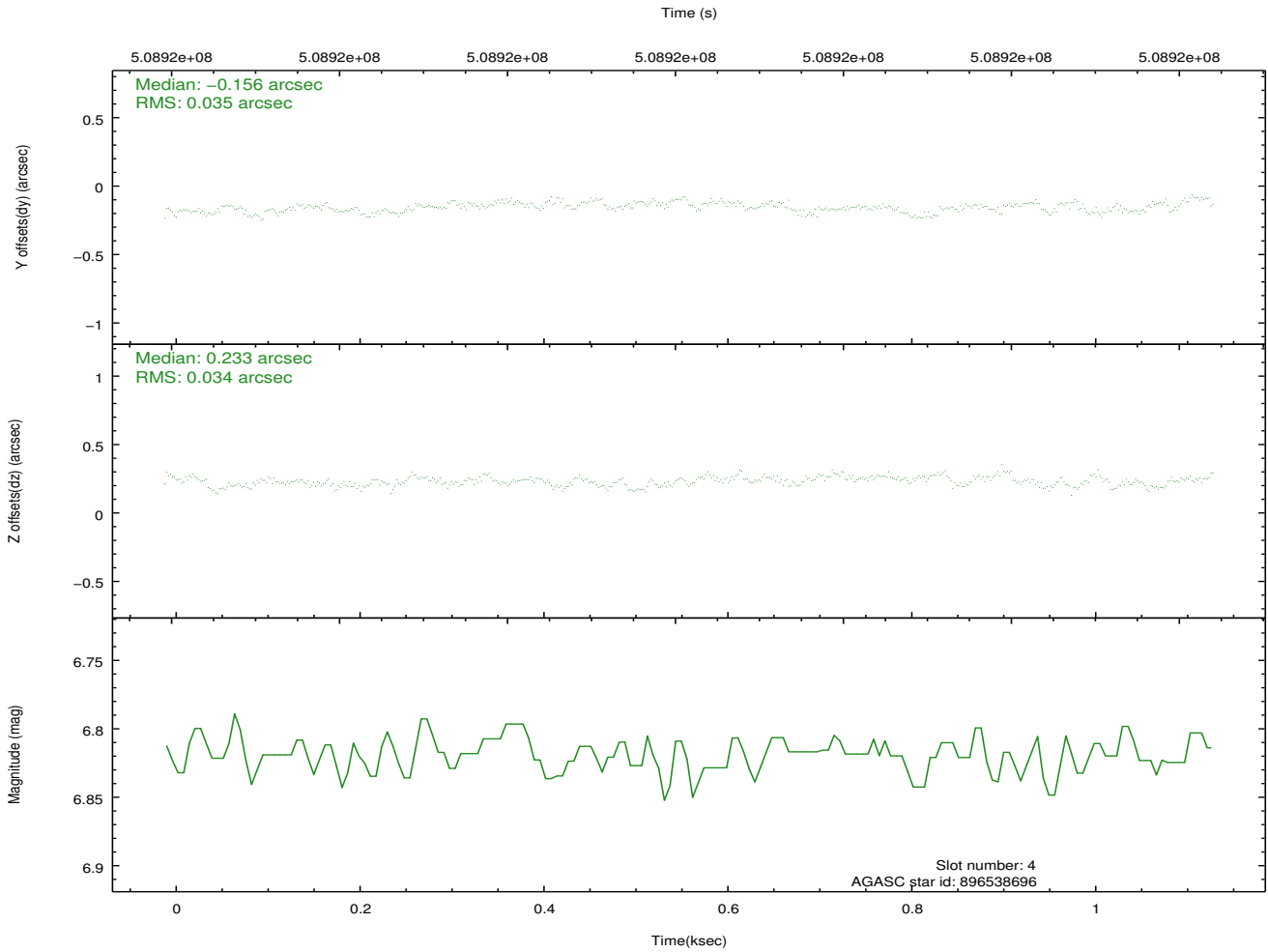
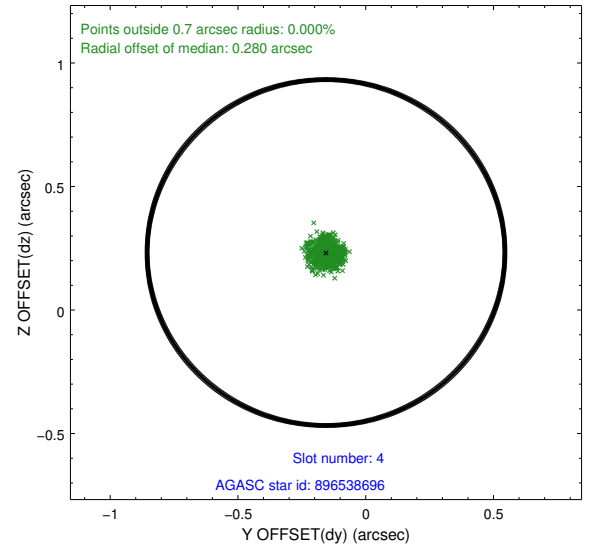
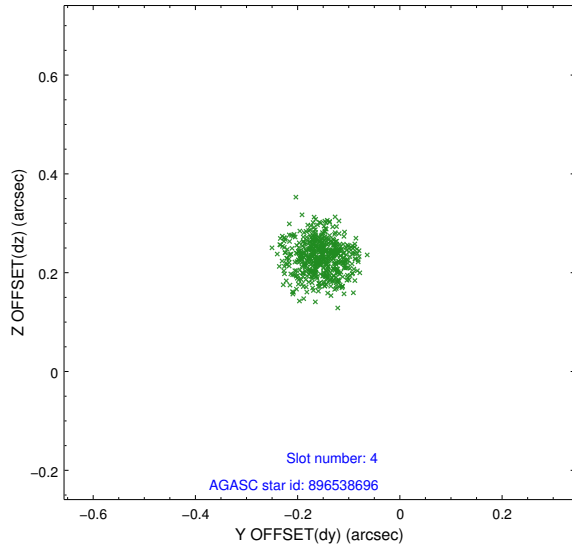


## 2.4 Star Slots

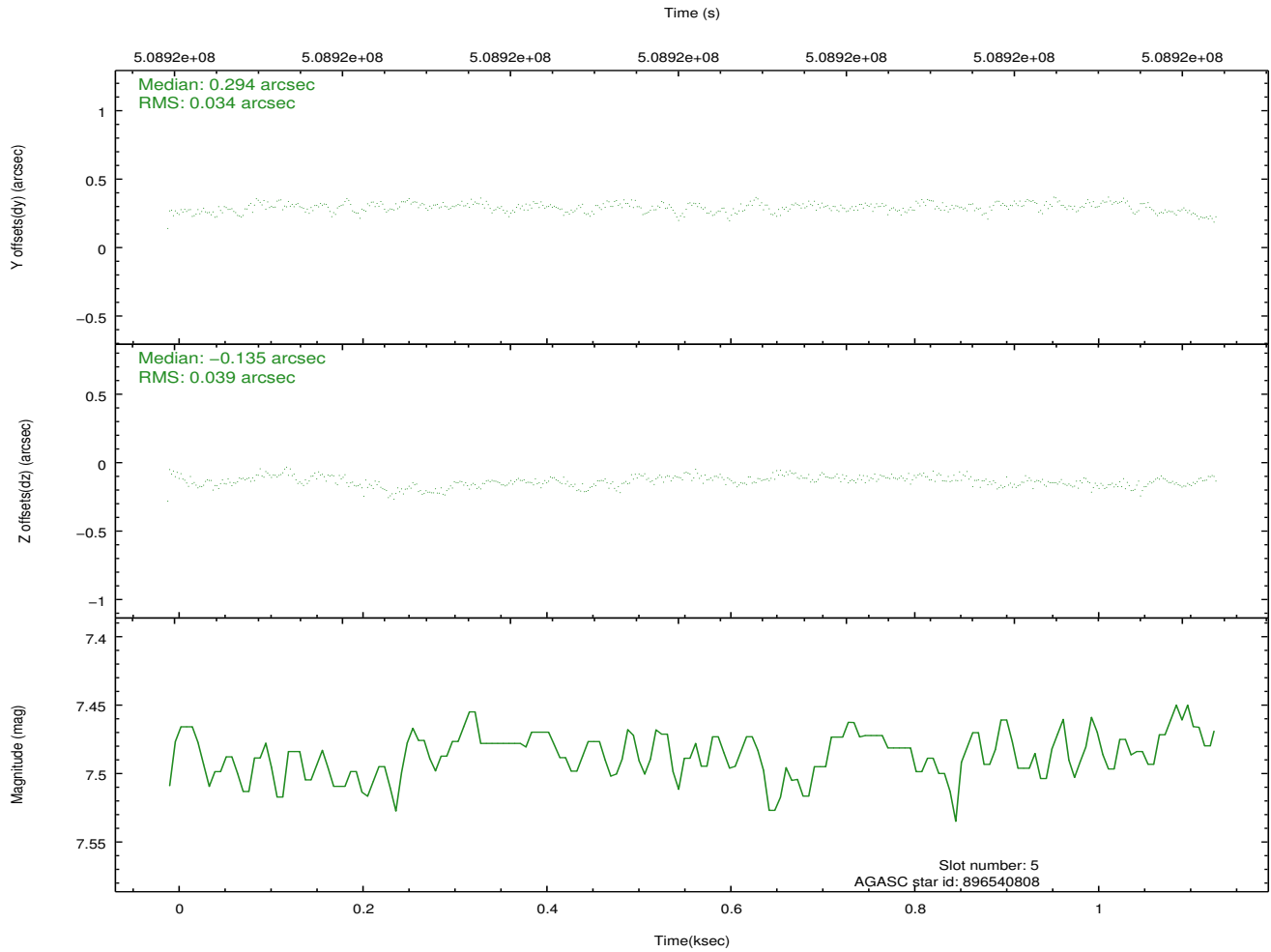
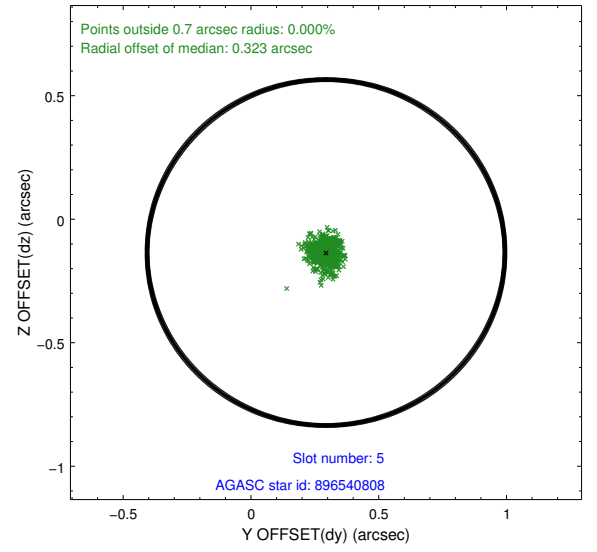
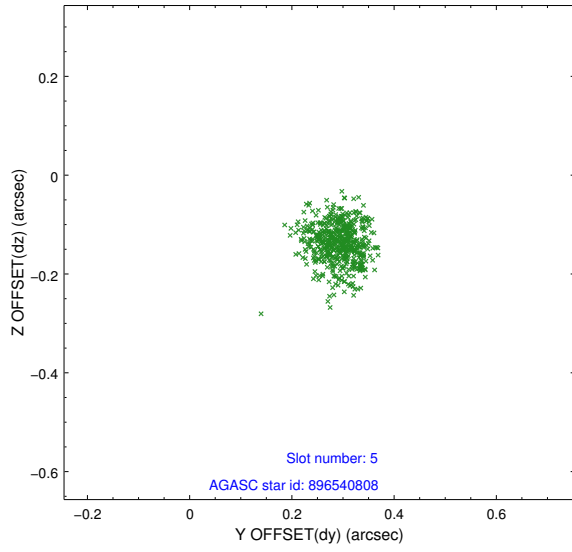
### 2.4.1 Slot 3



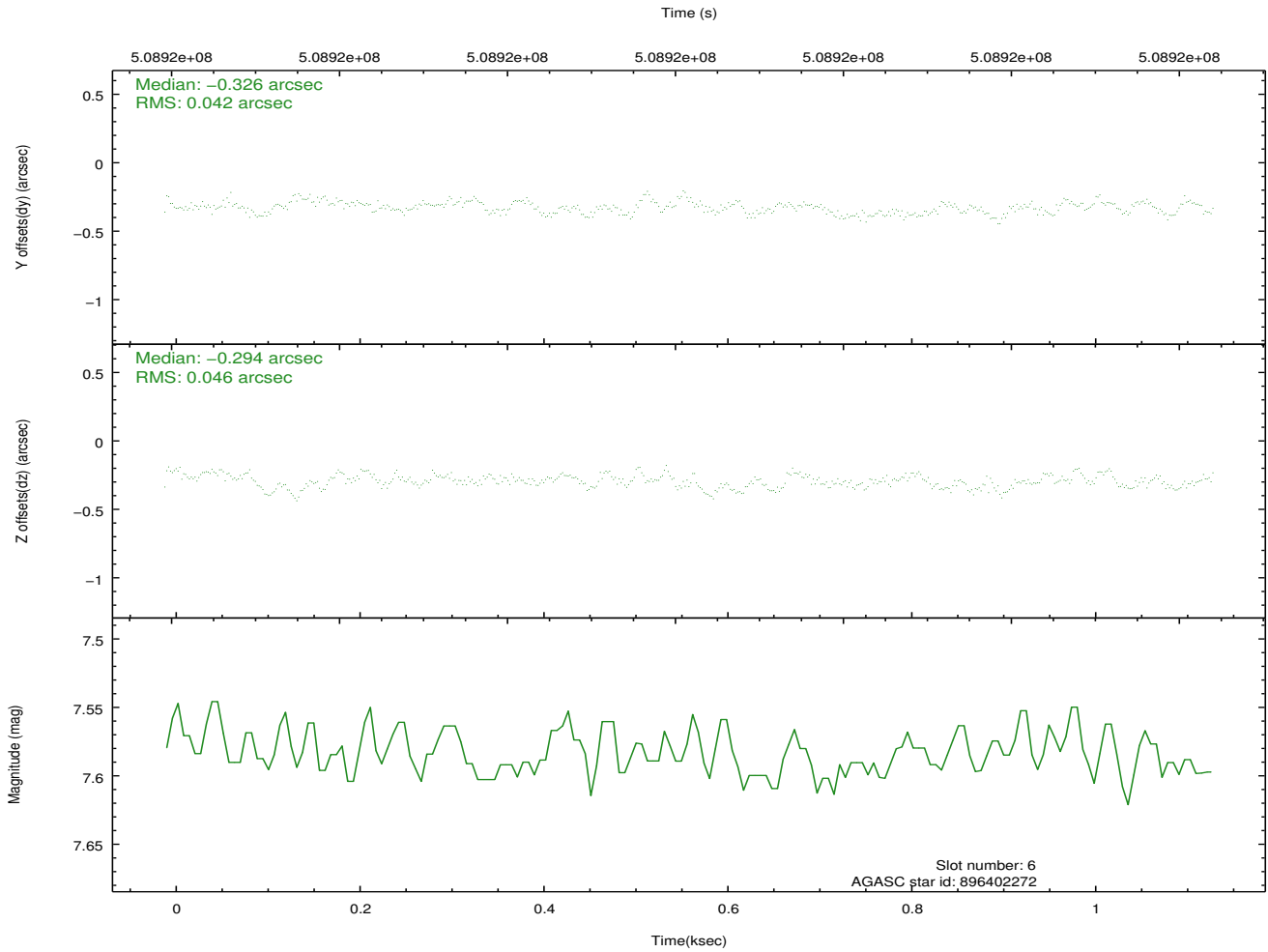
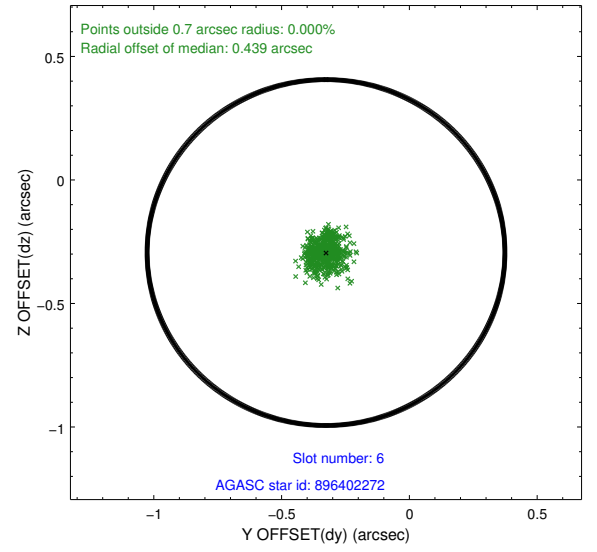
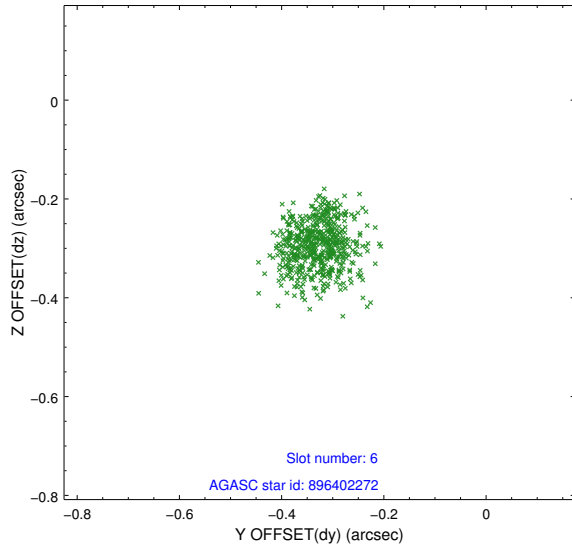
## 2.4.2 Slot 4



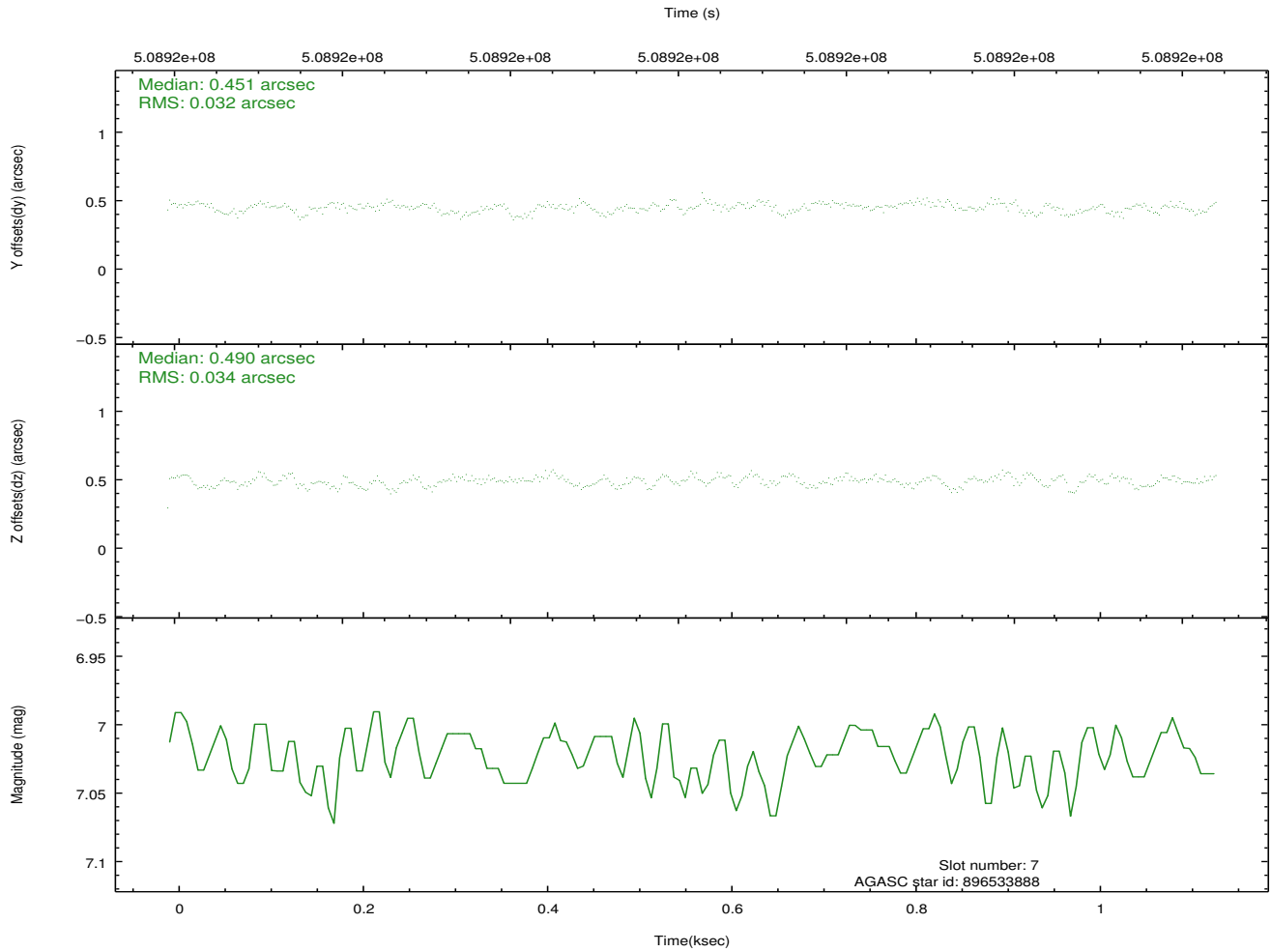
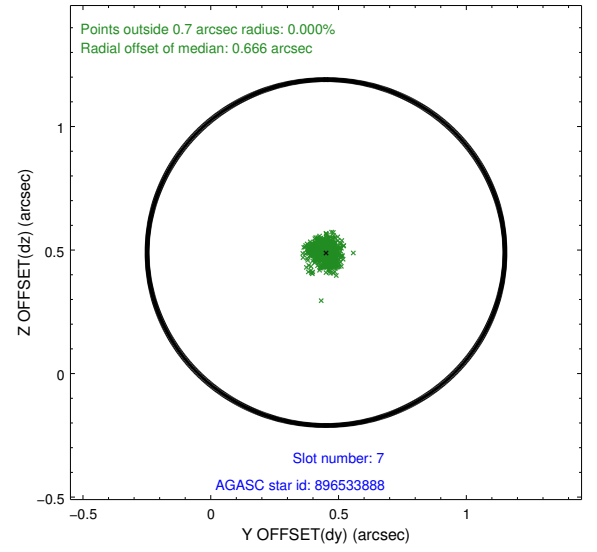
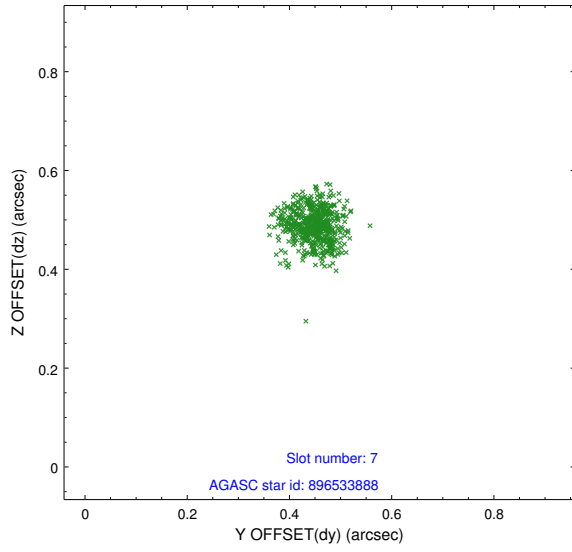
### 2.4.3 Slot 5



## 2.4.4 Slot 6

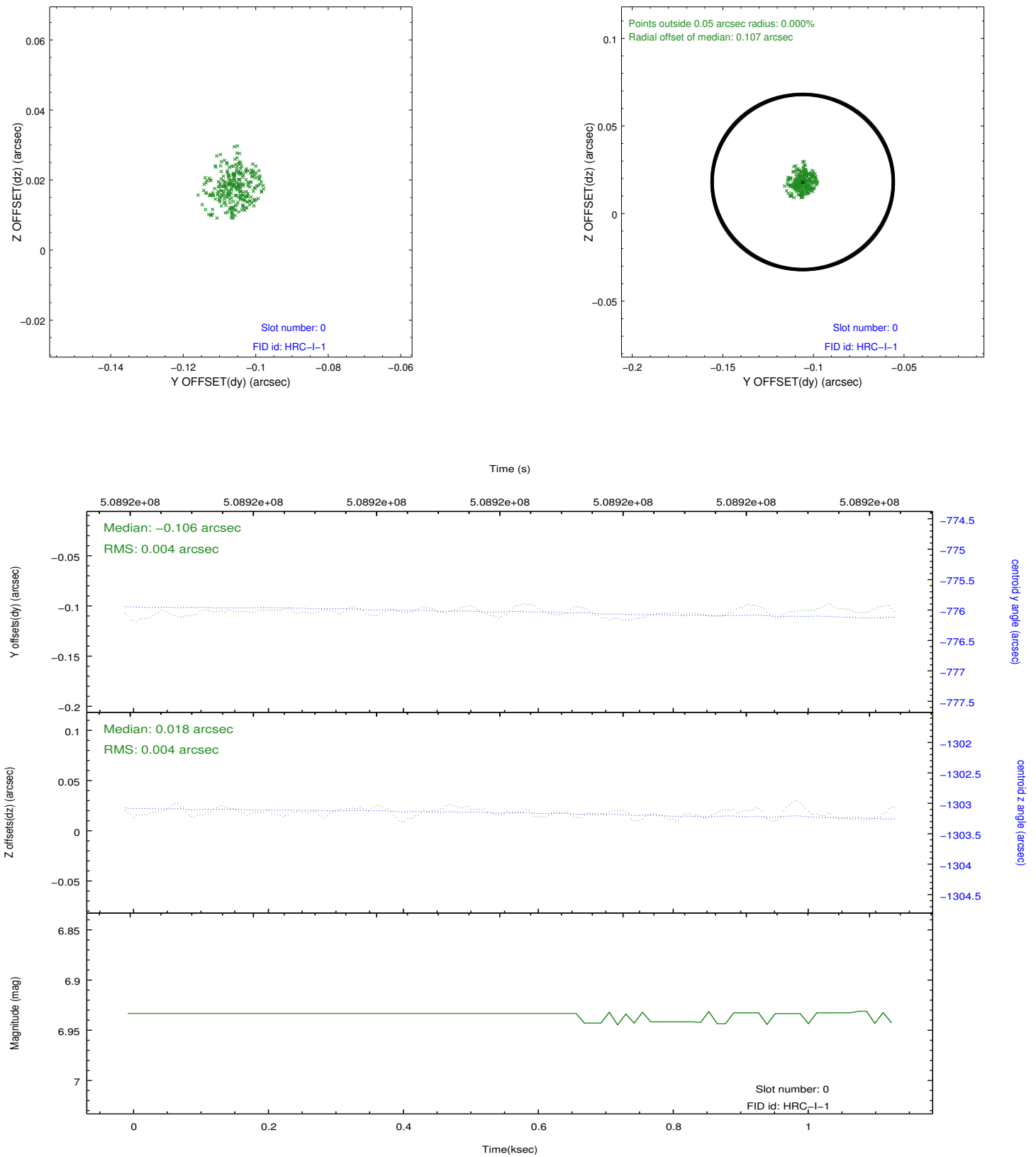


## 2.4.5 Slot 7

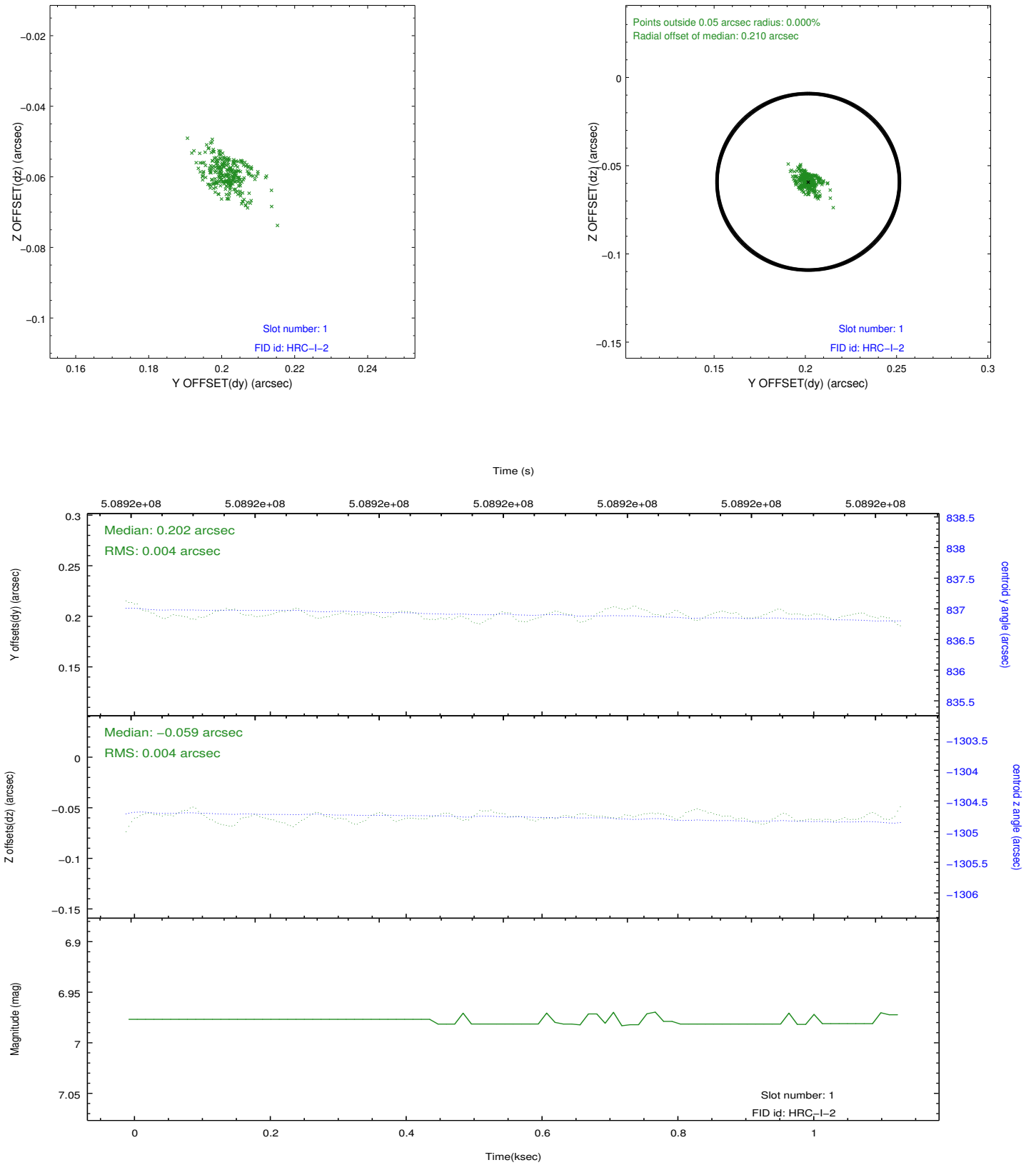


## 2.5 FID Slots

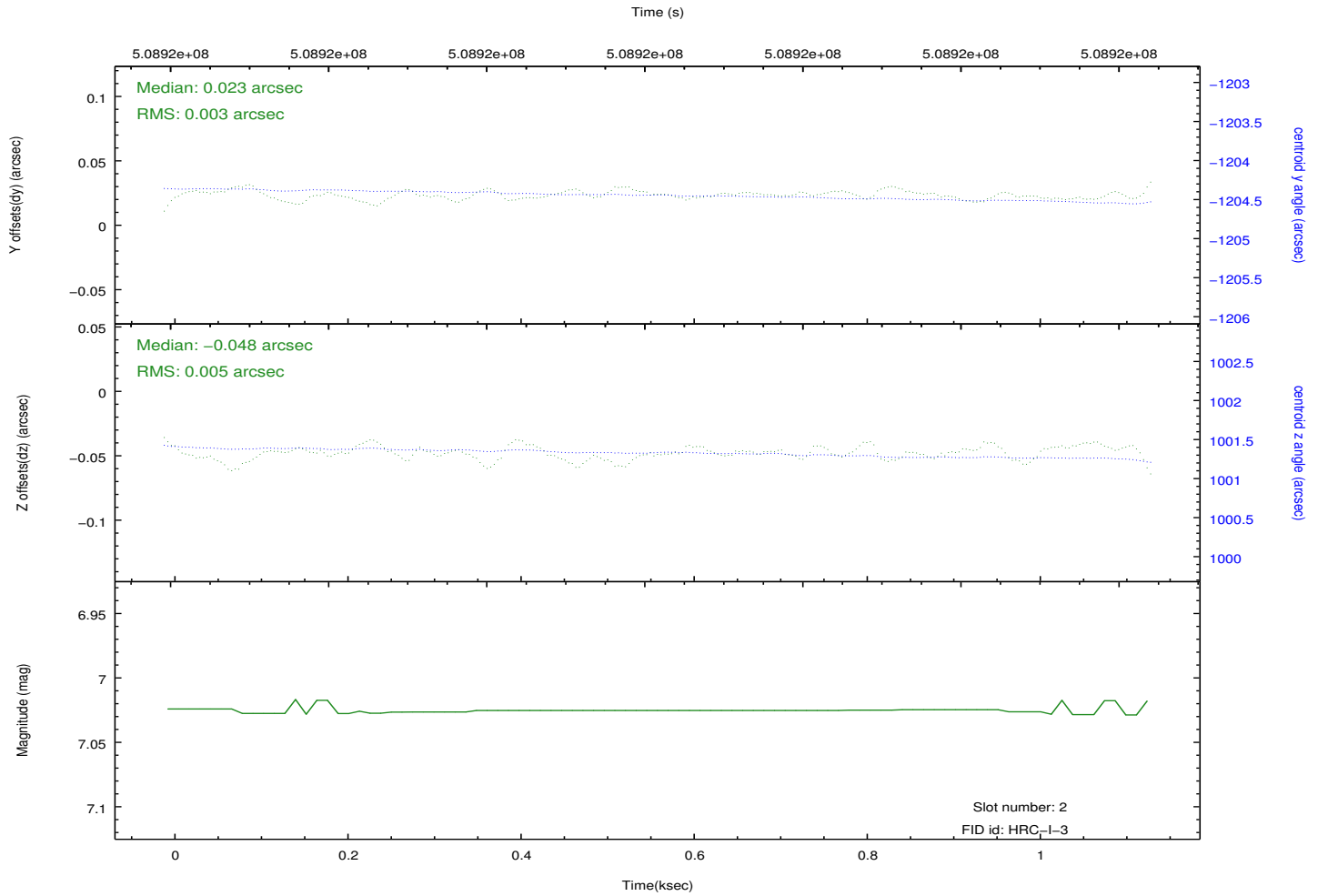
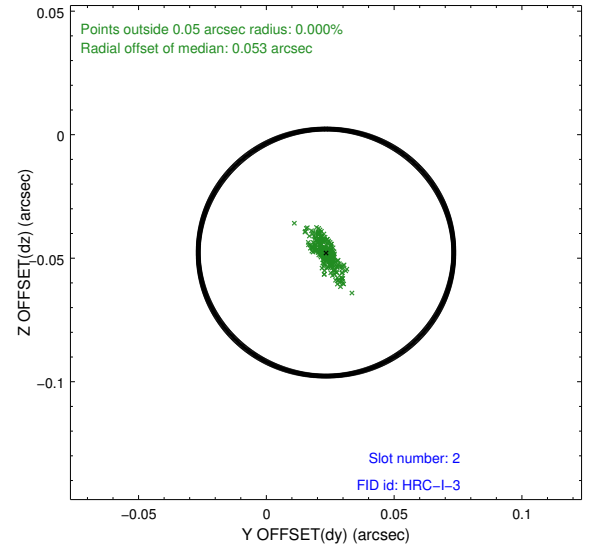
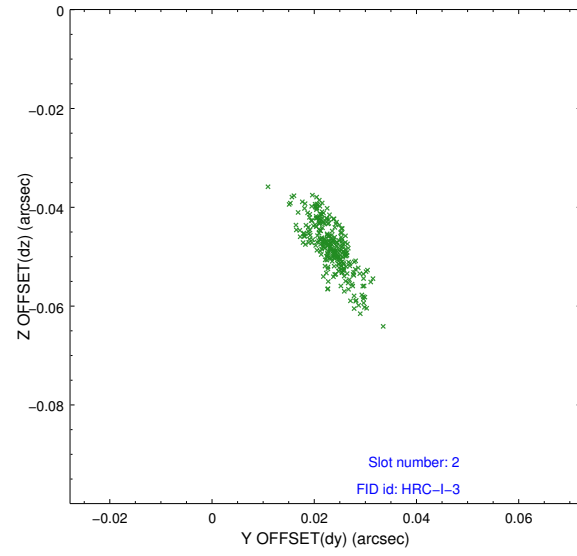
### 2.5.1 Slot 0



## 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)	2014.12.17
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.1390313127637

## A.2 Comments

These data have been reprocessed with new aspect alignment calibration files that correct small mean offsets (up to 0.4 arcsecs) and improve overall astrometric accuracy. The new calibration was determined using data from the time period being reprocessed and was performed using cross-correlation of X-ray sources with radio and optical counterparts.