

# V&V Reference Report

## L2 ASCDS Version : 8.5.1.1

Observation 15400 - L2 Version 2  
Chandra X-Ray Center

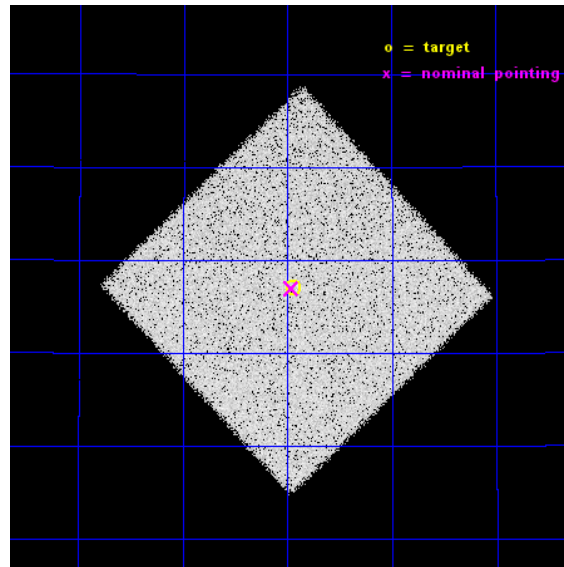
L2 Processing Date : Nov 30 2014

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# 1 Front

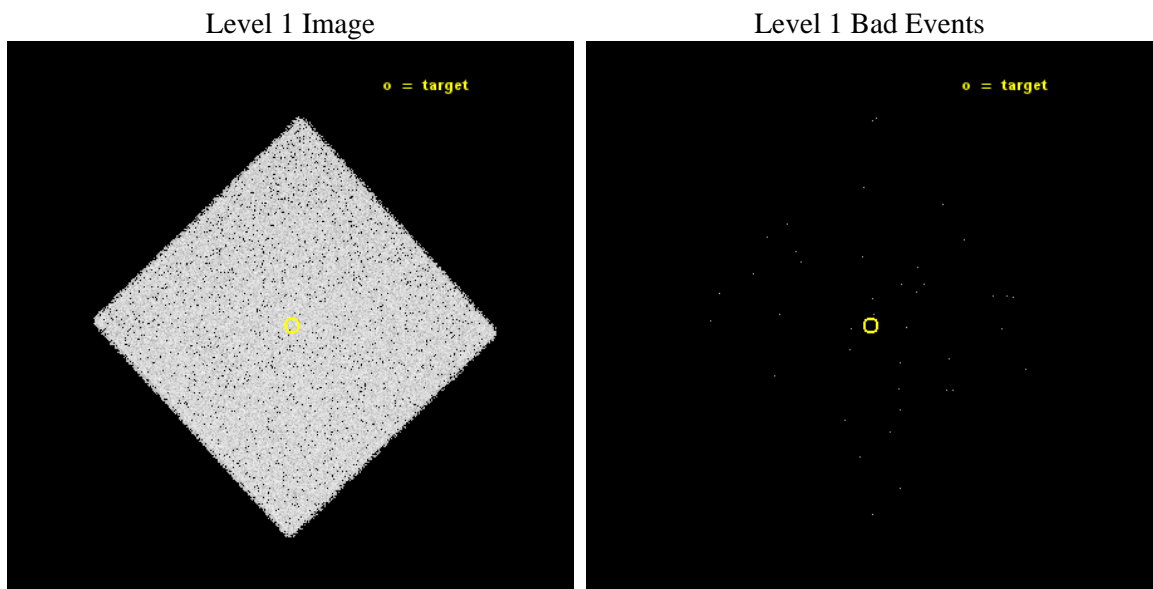
seq_num	291079	Sequence number
obs_id	15400	Observation id
title	AO-14 Measurements of the optical/UV Transmission of the HRC Filters.	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	Vega	Source name
ra_targ	279.235833	Observer's specified target RA [deg]
dec_targ	38.78475	Observer's specified target Dec [deg]
ra_nom	279.24088271963	Nominal RA [deg]
dec_nom	38.78307901499	Nominal Dec [deg]
roll_nom	1.5887742254244	Nominal Roll [deg]
revision	2	Processing version of data
ontime	2143.531365037	[s]
liveltime	2125.753922204	Ontime multiplied by DTCOR
l2events	132301	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	2000.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	2143.531365037	[s]
caldbver	4.6.4	&#160	l1events	258196	Number of level 1 events
date	2014-11-30T19:45:13	Date and time of file creation			
revision	2	Processing version of data			

### 2.1.3 Events

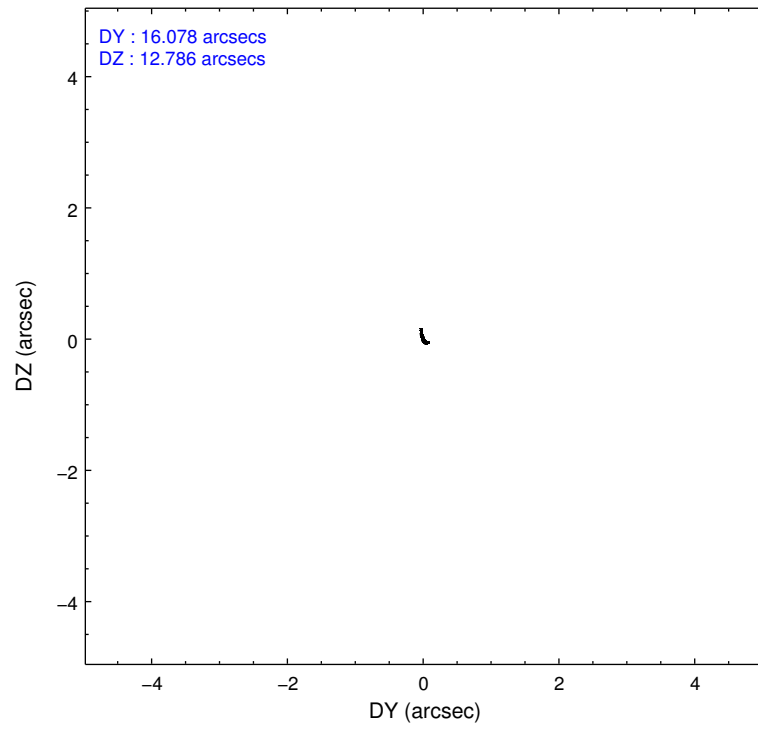
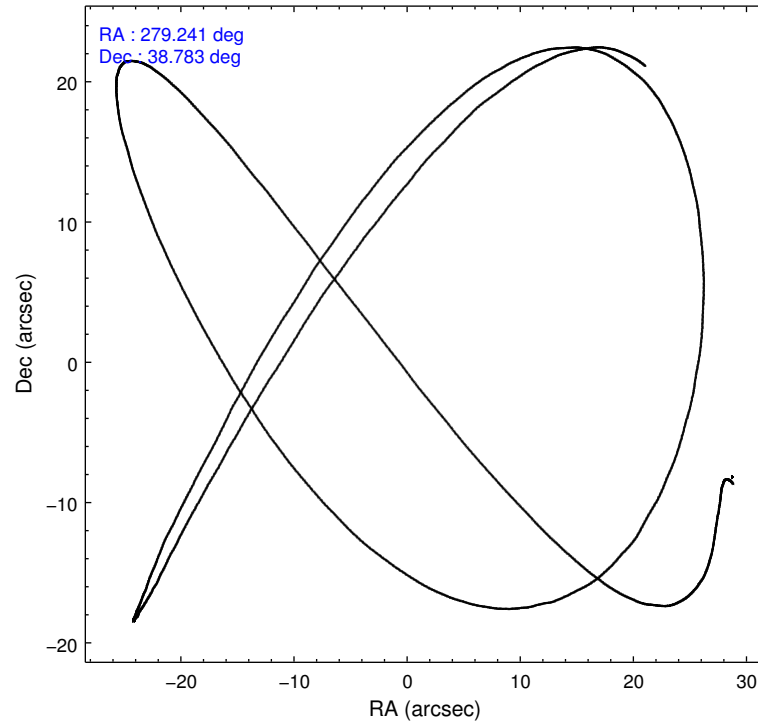
#### Level 1 Events

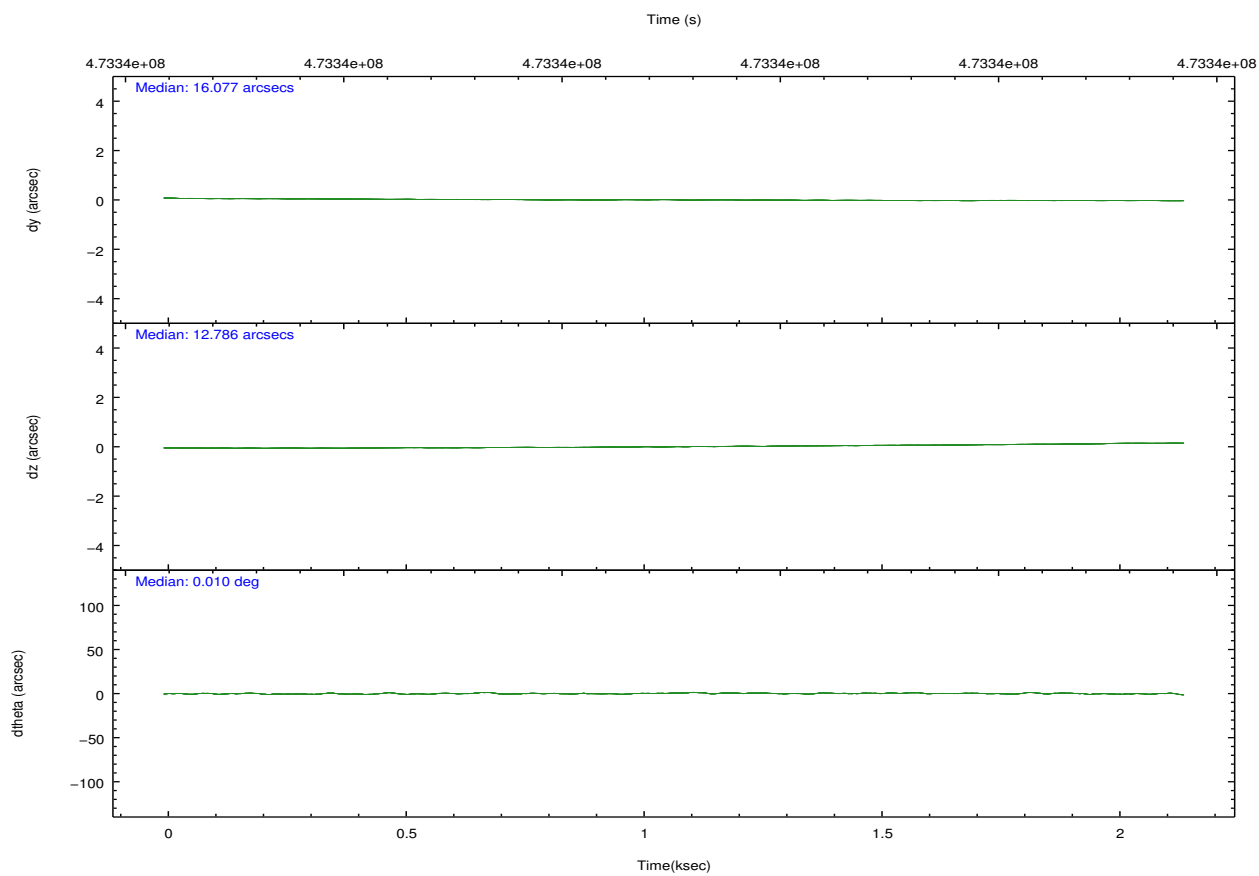
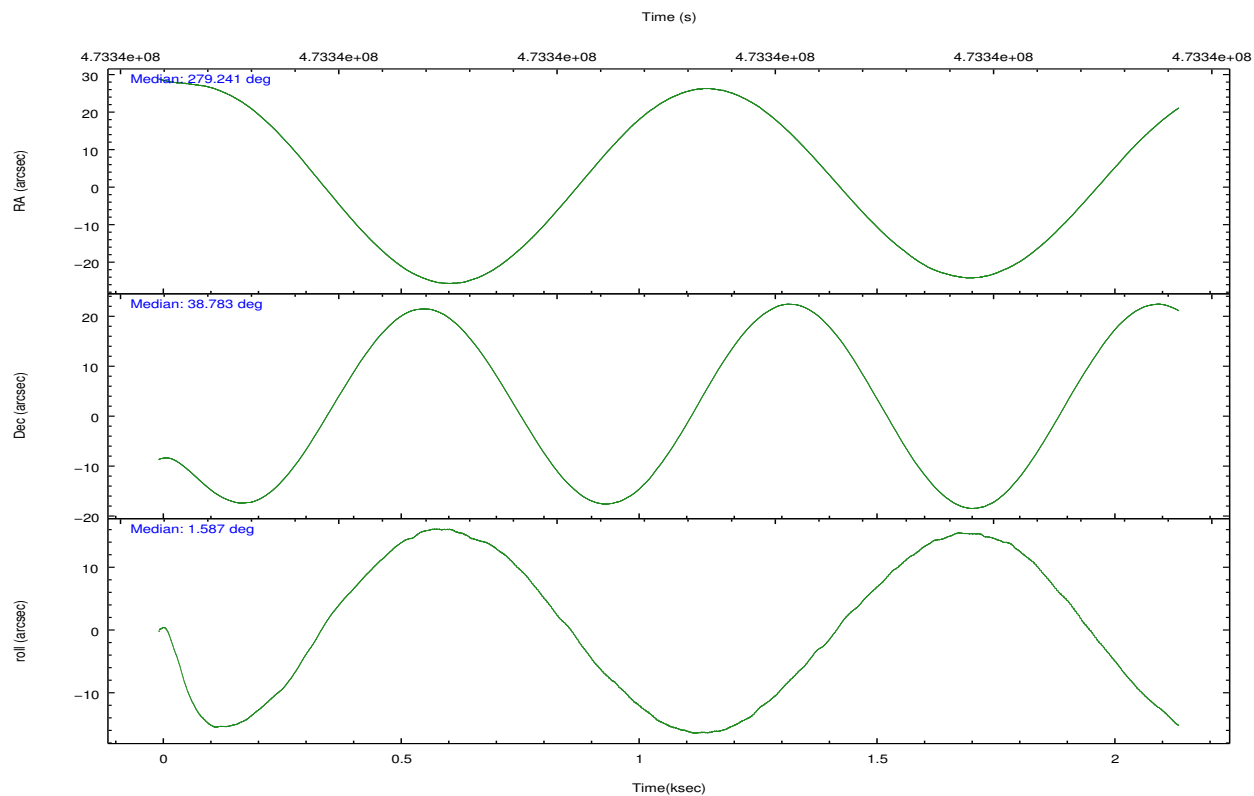
	<b>segment 0</b>
level 1 events	258196
rejected events	77107
rejected %	29%

## 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	279.211637	279.2408827196273			
[deg] Pointing Dec	38.768518	38.78307901499025			
[deg] Pointing Roll	1.702490	1.588774225424447			
[s] Window start time (MET)	470707267.184000	470707267.184000			
[s] Window stop time (MET)	475977667.184000	475977667.184000			
[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)	473337318.184000	473336285.68853			
Observation start date	2012-12-31T10:34:11	2012-12-31T10:18:05			
[s] Observation end time (MET)	473339318.184000	473339454.9887			
Observation end date	2012-12-31T11:07:31	2012-12-31T11:10:54			

## 2.3 Aspect



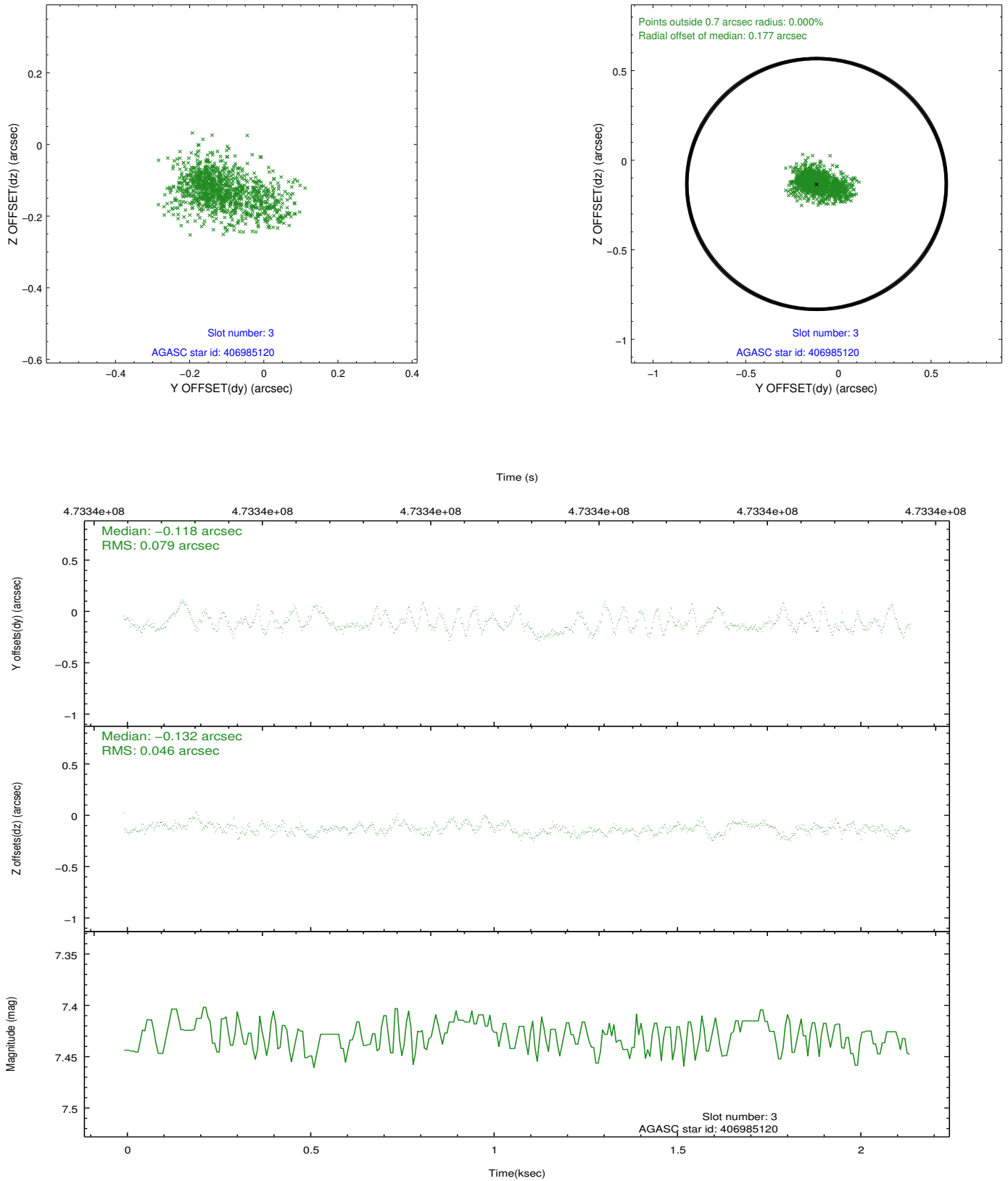


### Slot Statistics

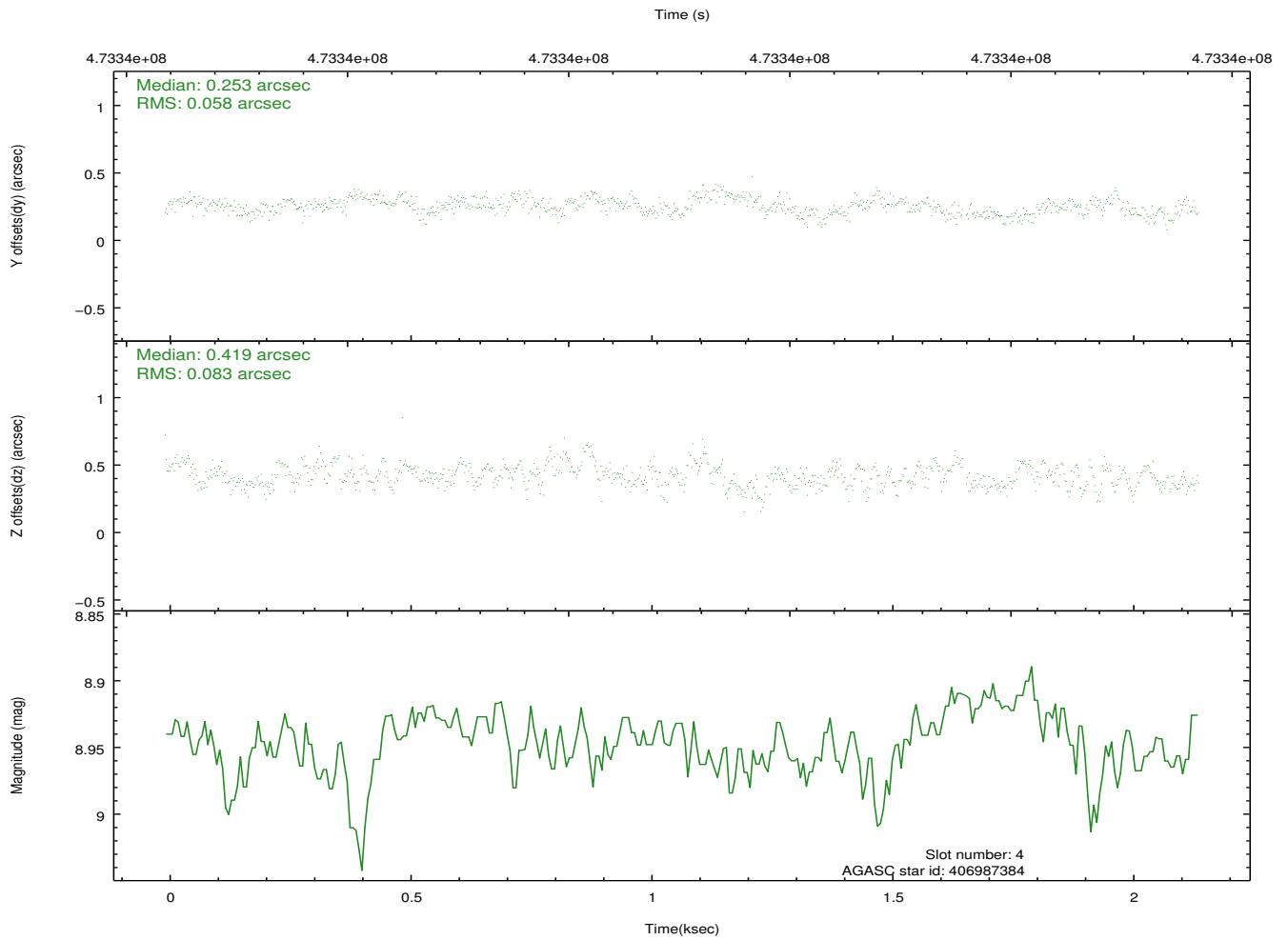
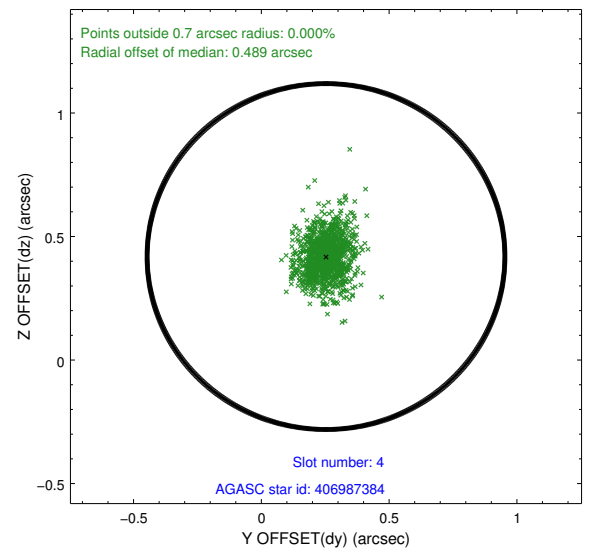
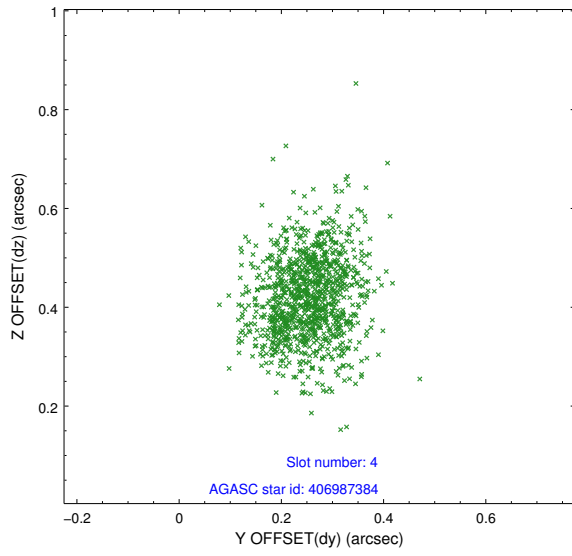
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		HRC-I-1	6.96	523	-0.091	0.029	0.008	0.013	0.000000	0.000000	-772.05	-1300.77
1	FID		HRC-I-2	6.99	523	0.247	-0.129	0.008	0.014	0.000000	0.000000	839.44	-1305.03
2	FID		HRC-I-3	7.04	524	-0.036	0.010	0.011	0.017	0.000000	0.000000	-1198.81	1001.30
3	GUIDE	used	406985120	7.43	1047	-0.118	-0.132	0.097	0.167	278.839732	38.894839	-1027.76	488.28
4	GUIDE	used	406987384	8.95	1044	0.253	0.419	0.104	0.172	278.815518	38.115336	-1191.66	-2313.08
5	GUIDE	used	406987272	6.96	1047	0.150	0.185	0.062	0.099	278.536588	38.437504	-1938.83	-1128.19
6	GUIDE	used	407521232	8.63	1047	-0.082	-0.234	0.103	0.168	279.628883	39.431715	1229.10	2354.22
7	GUIDE	used	407513096	8.14	1046	-0.213	-0.241	0.079	0.131	279.928965	39.436841	2066.65	2356.49

## 2.4 Star Slots

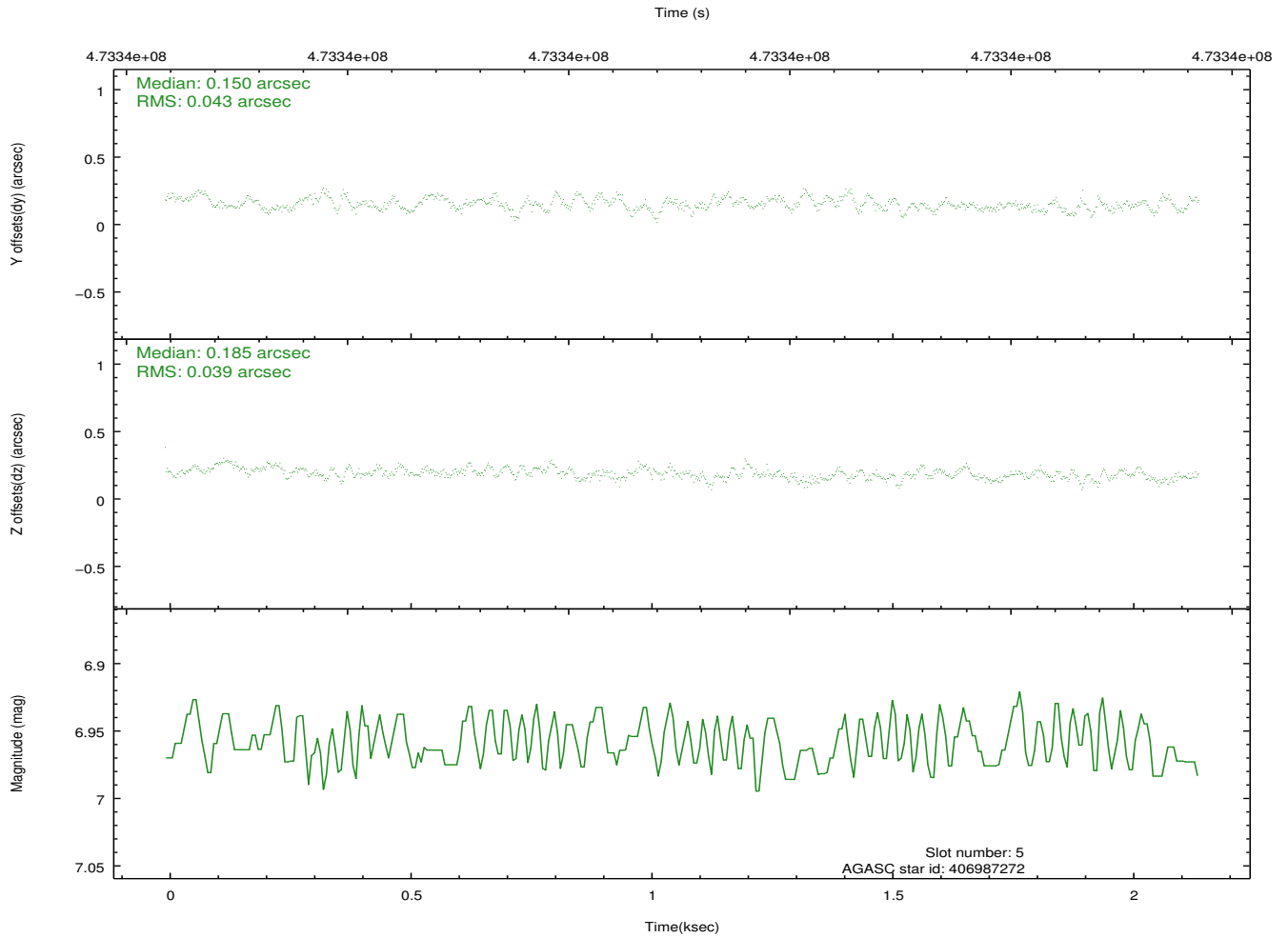
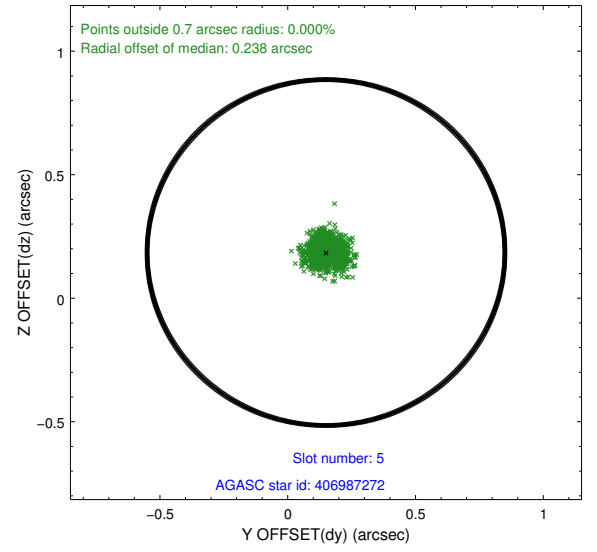
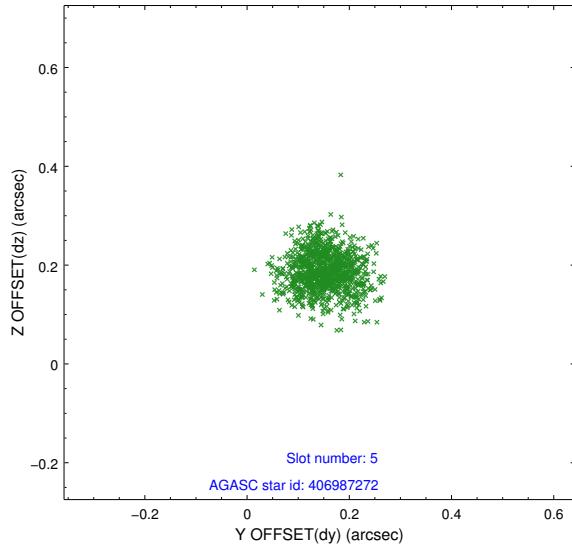
### 2.4.1 Slot 3



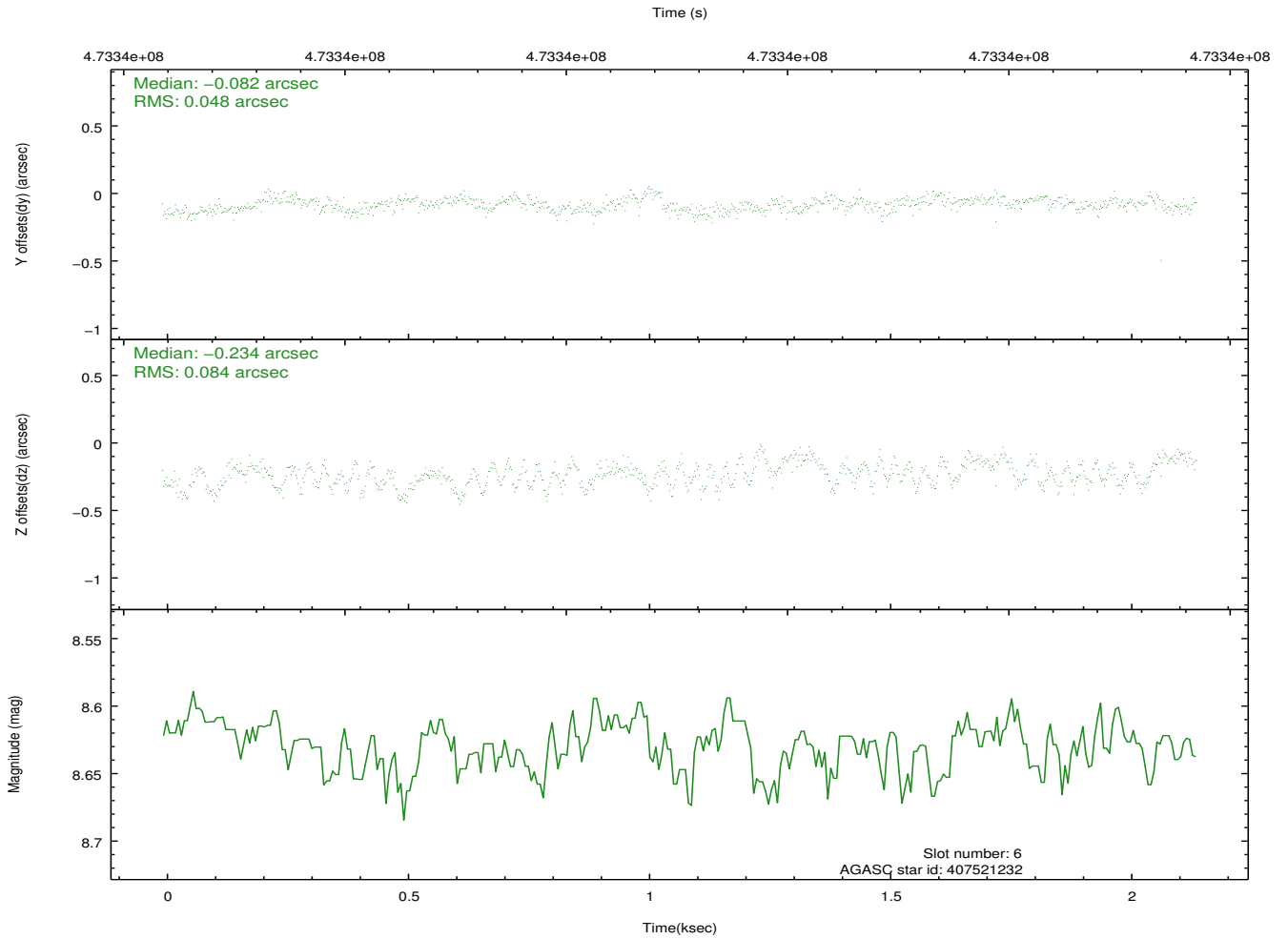
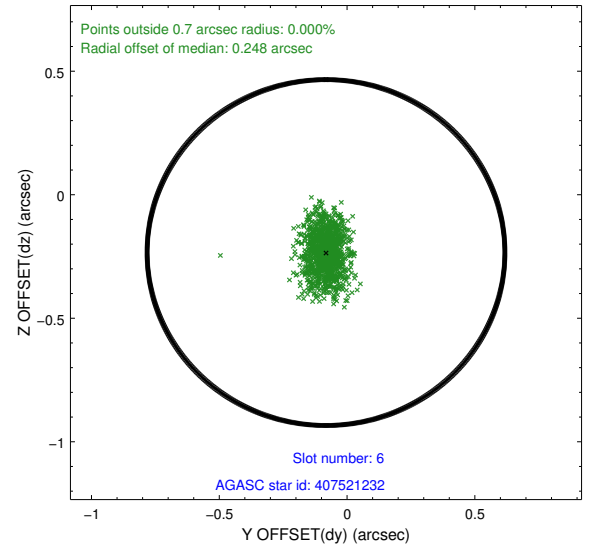
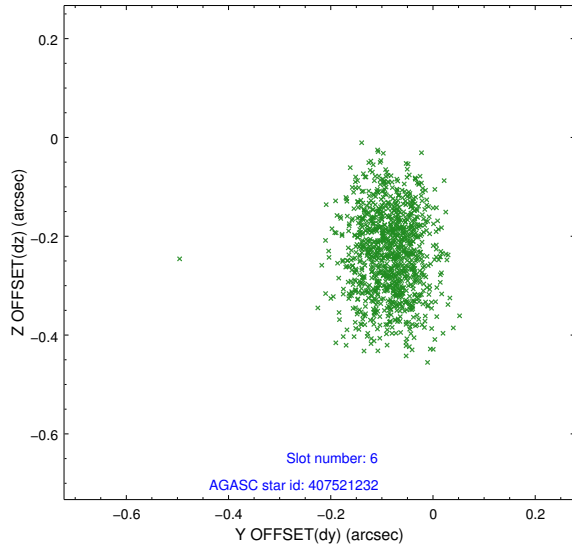
## 2.4.2 Slot 4



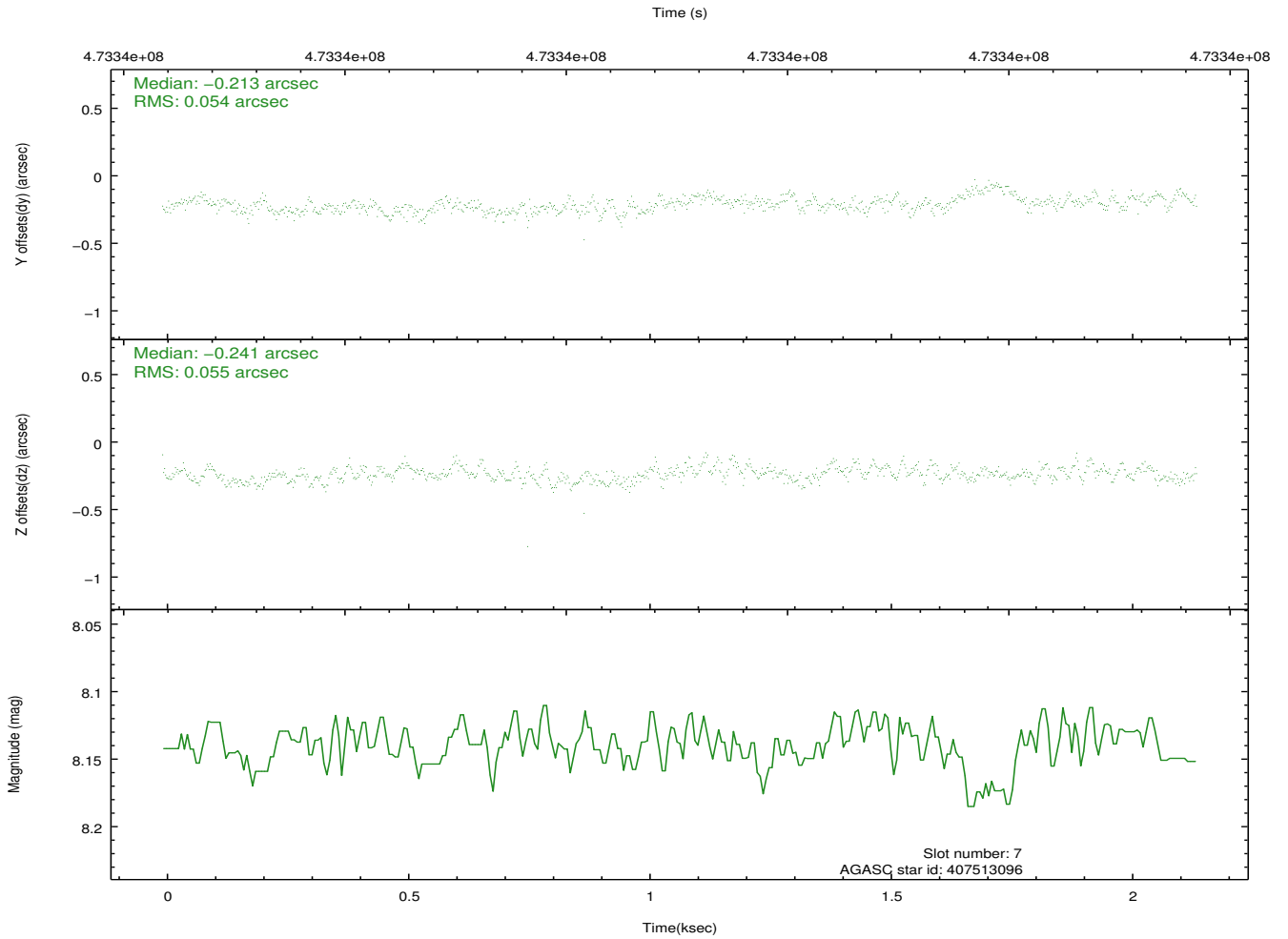
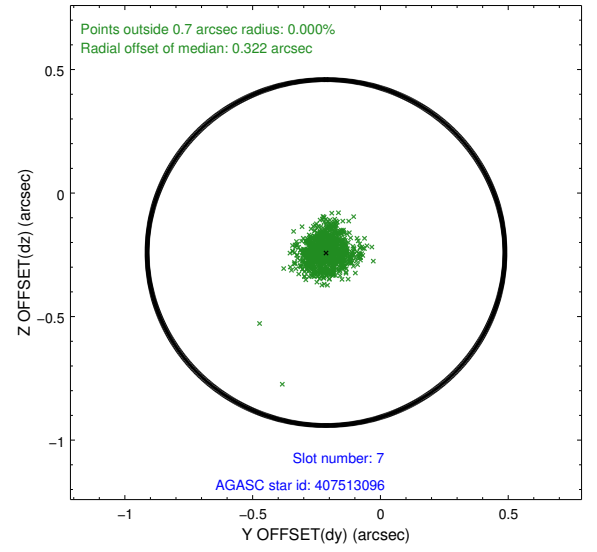
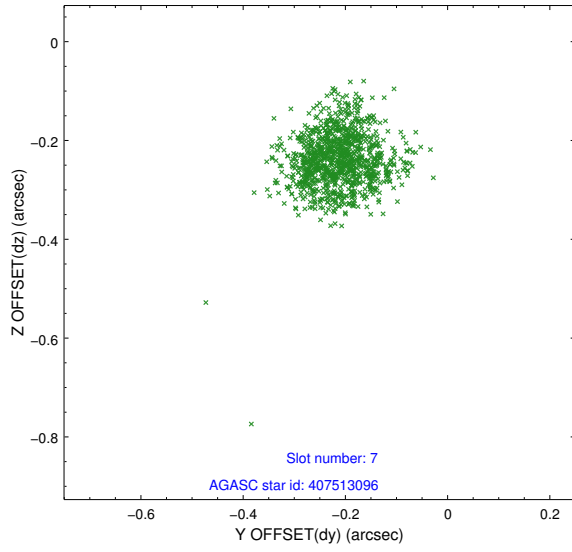
### 2.4.3 Slot 5



## 2.4.4 Slot 6

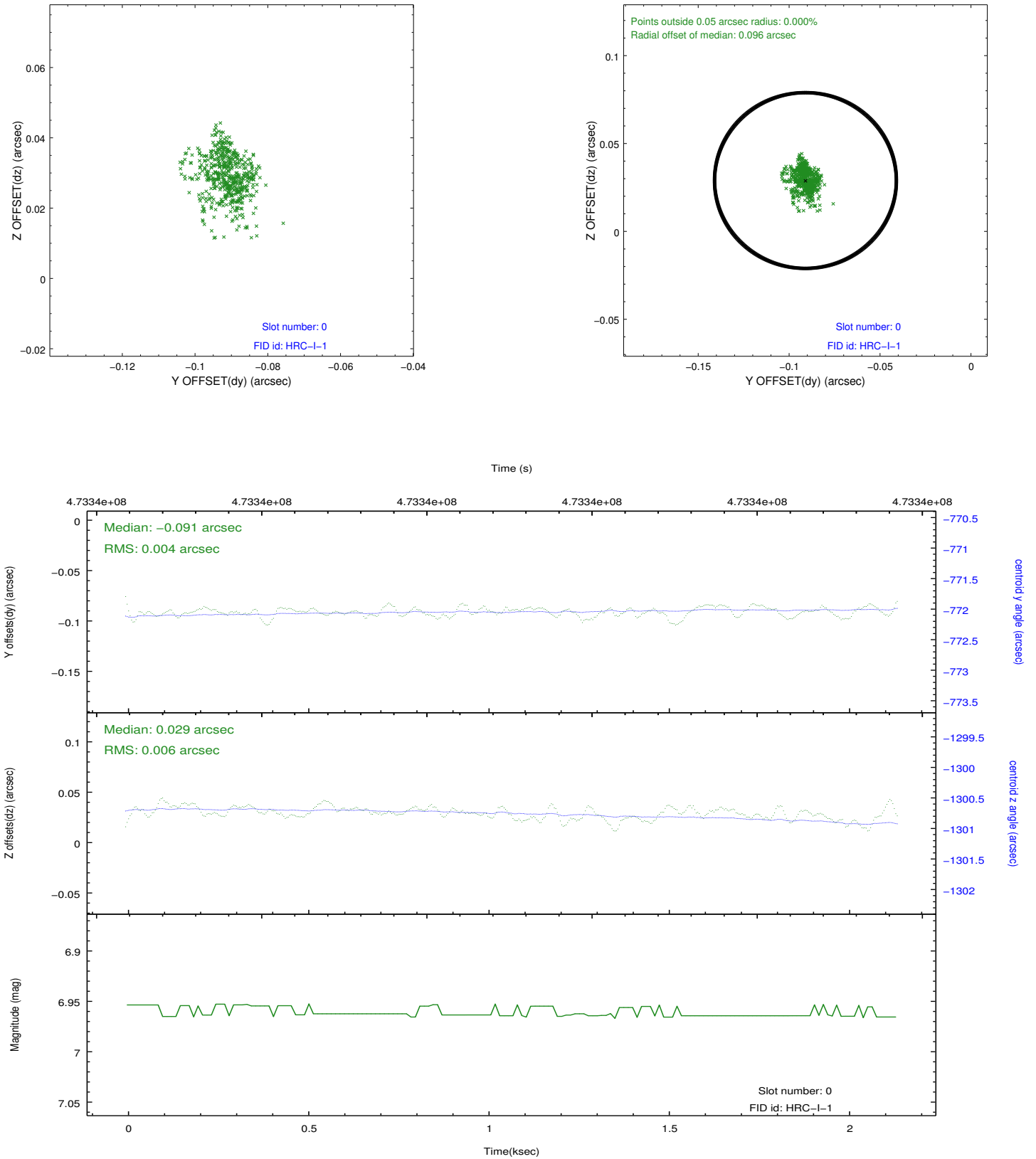


## 2.4.5 Slot 7

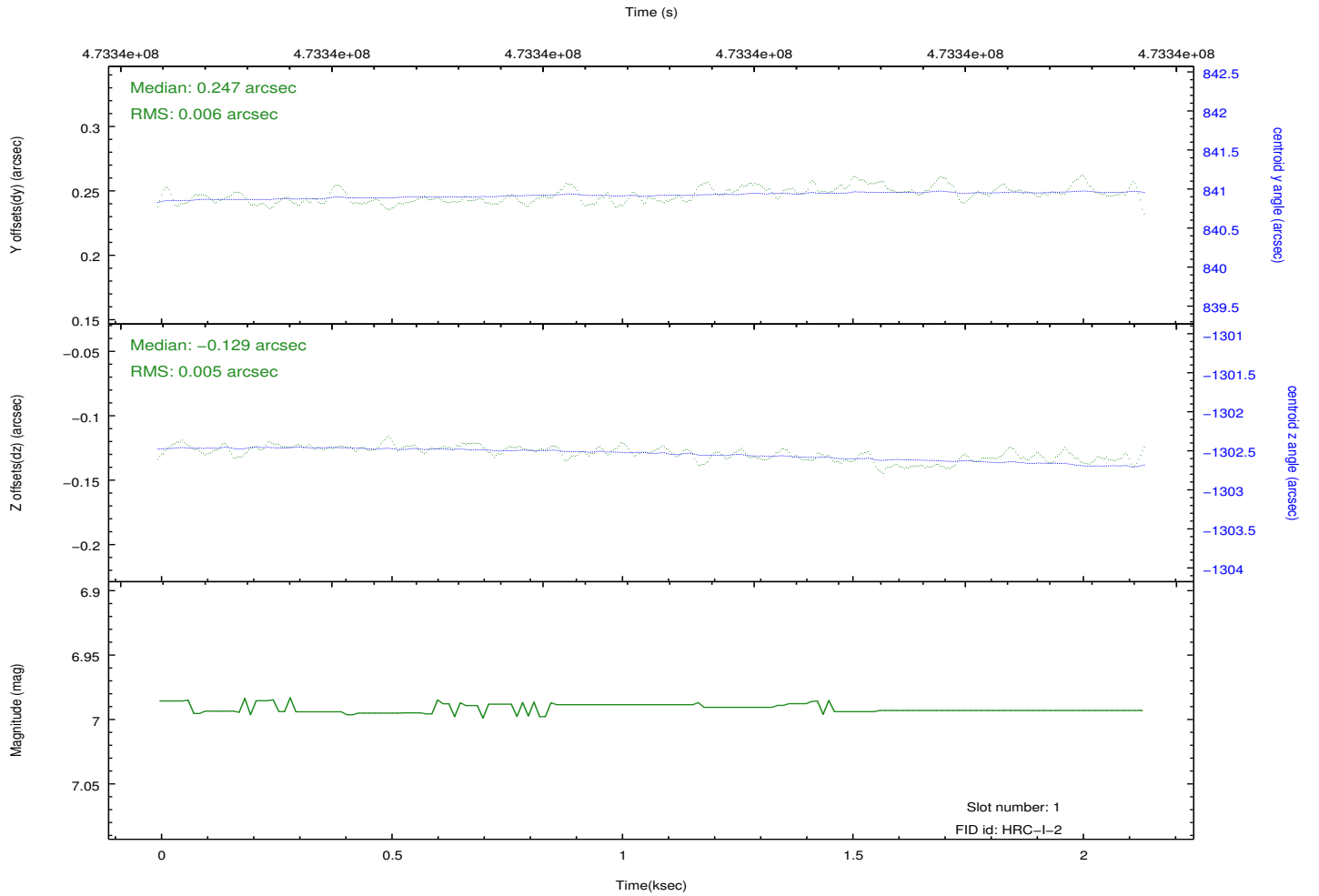
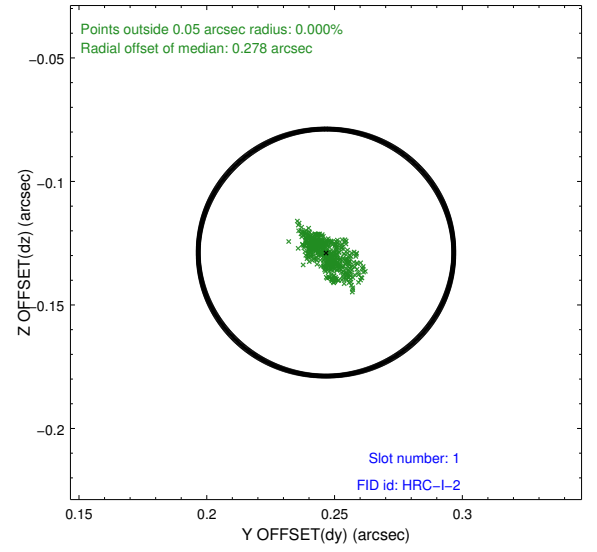
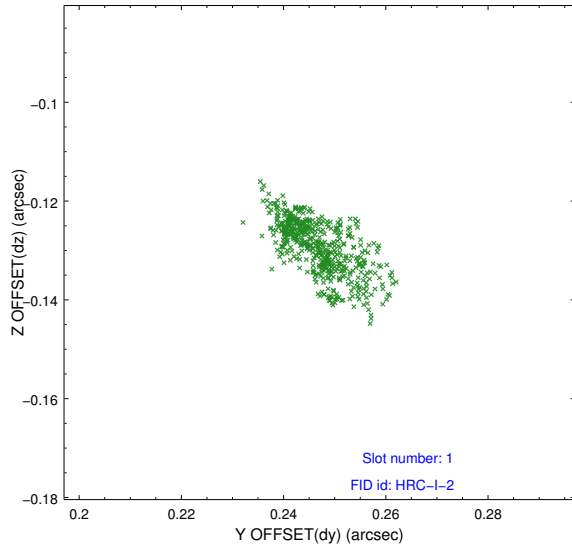


## 2.5 FID Slots

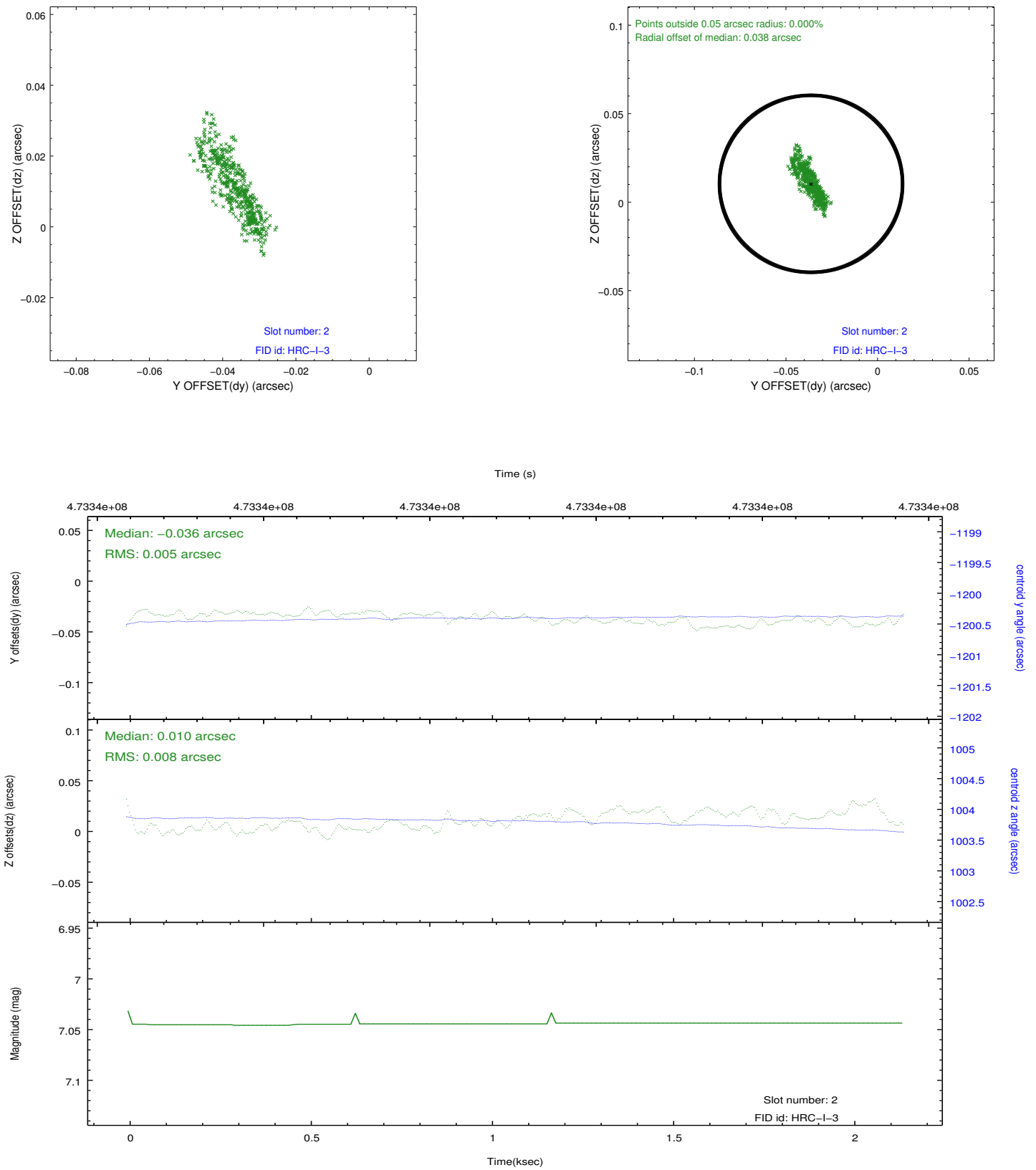
### 2.5.1 Slot 0



## 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)	2014.12.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.143531365037

## A.2 Comments

Window preference met.

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.