

# V&V Reference Report

## L2 ASCDS Version : 8.5.1.1

Observation 15402 - L2 Version 2  
Chandra X-Ray Center

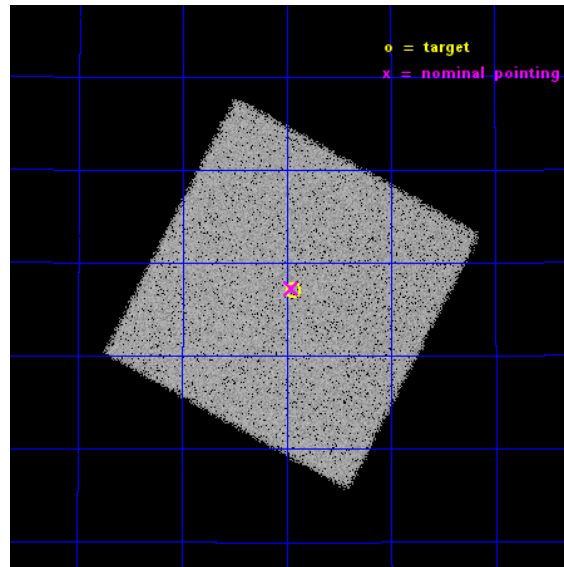
L2 Processing Date : Dec 1 2014

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# 1 Front

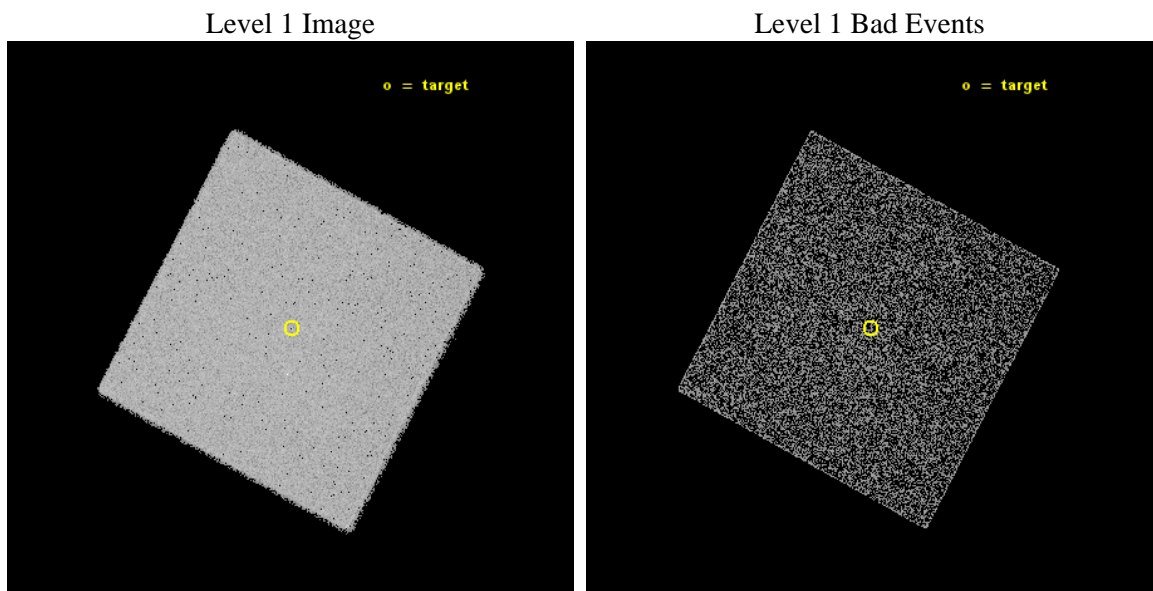
seq_num	291081	Sequence number
obs_id	15402	Observation id
title	AO-14 Measurements of the optical/UV Transmission of the HRC Filters.	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	Vega	Source name
ra_targ	279.235833	Observer's specified target RA [deg]
dec_targ	38.78475	Observer's specified target Dec [deg]
ra_nom	279.2389063519	Nominal RA [deg]
dec_nom	38.788157396098	Nominal Dec [deg]
roll_nom	73.272564812218	Nominal Roll [deg]
revision	2	Processing version of data
ontime	2182.2251179814	[s]
liveltime	2162.7999606983	Ontime multiplied by DTCOR
l2events	145100	Number of level 2 events



## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



### 2.1.2 Parameters

obi_num	1	Obi number	sched_exp_time	2000.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	2182.2251179814	[s]
caldbver	4.6.4	&#160	l1events	287530	Number of level 1 events
date	2014-12-02T01:33:23	Date and time of file creation			
revision	2	Processing version of data			

### 2.1.3 Events

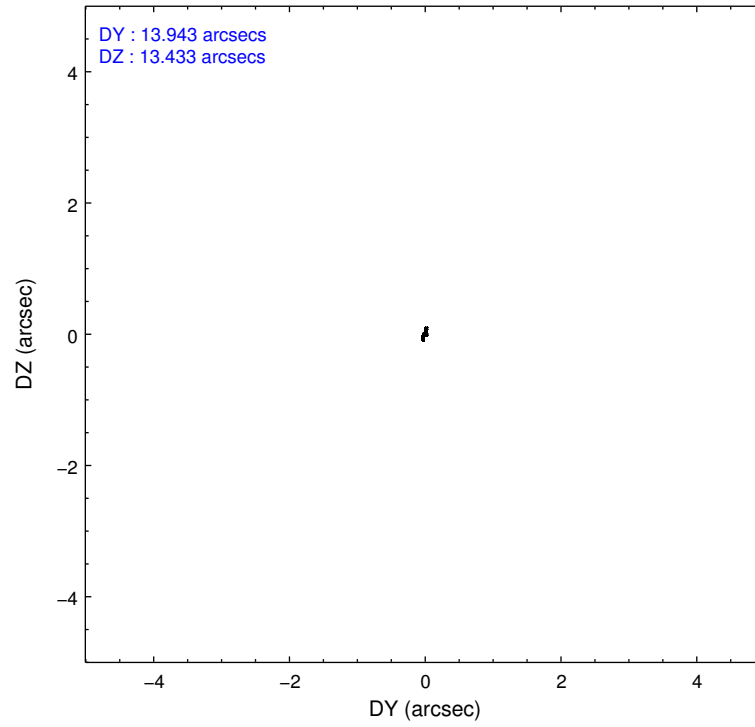
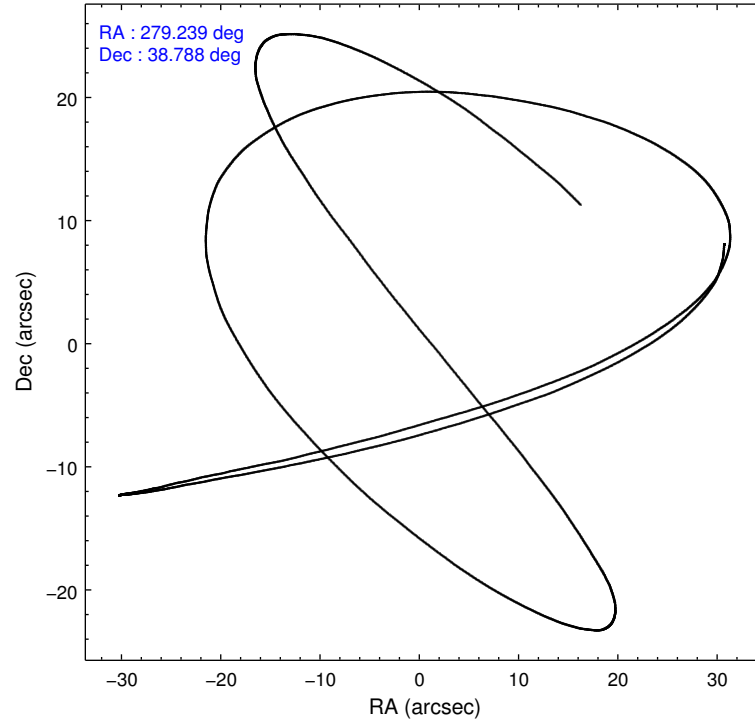
#### Level 1 Events

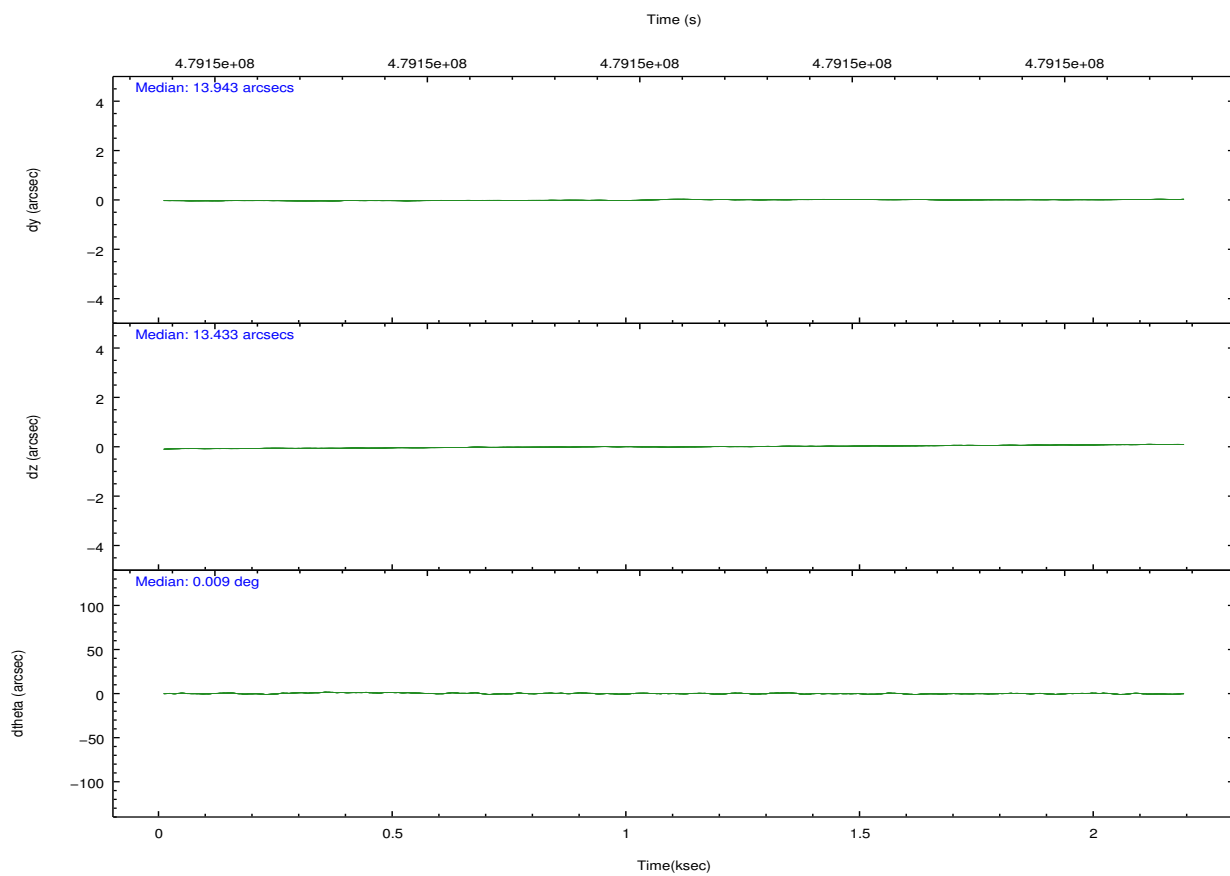
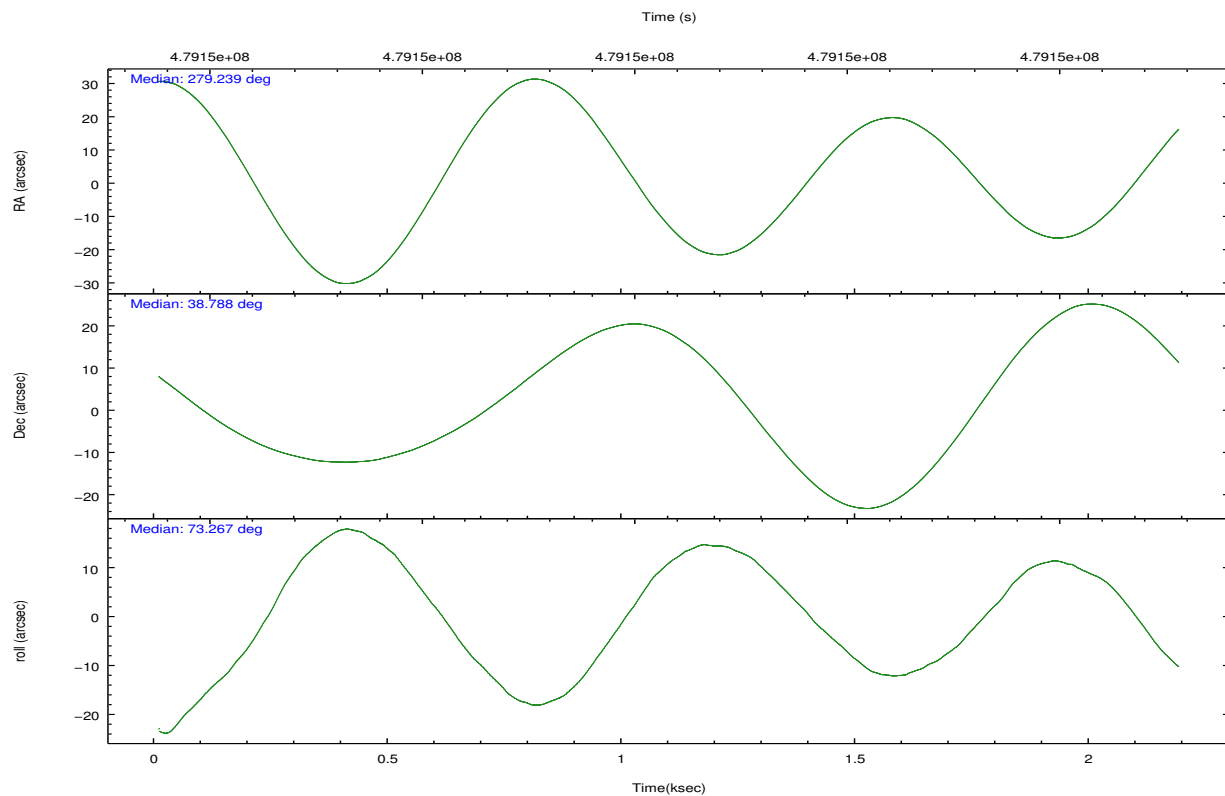
	<b>segment 0</b>
level 1 events	287530
rejected events	89160
rejected %	31%

## 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	279.247985	279.2389063518971			
[deg] Pointing Dec	38.761745	38.78815739609755			
[deg] Pointing Roll	73.362388	73.27256481221829			
[s] Window start time (MET)	478483267.184000	478483267.184000			
[s] Window stop time (MET)	483667267.184000	483667267.184000			
[mm] SIM focus pos	-1.040293	-1.038866356238299			
[mm] SIM defocus	0	0.001426264420575141			
[mm] SIM translation stage pos	126.985494	126.9854943052878			
[mm] SIM translation stage offset	0	-5.413686238853188e-06			
[s] Observation start time (MET)	479151170.184000	479150751.74006			
Observation start date	2013-03-08T17:31:43	2013-03-08T17:25:51			
[s] Observation end time (MET)	479153170.184000	479154058.39024			
Observation end date	2013-03-08T18:05:03	2013-03-08T18:20:58			

## 2.3 Aspect





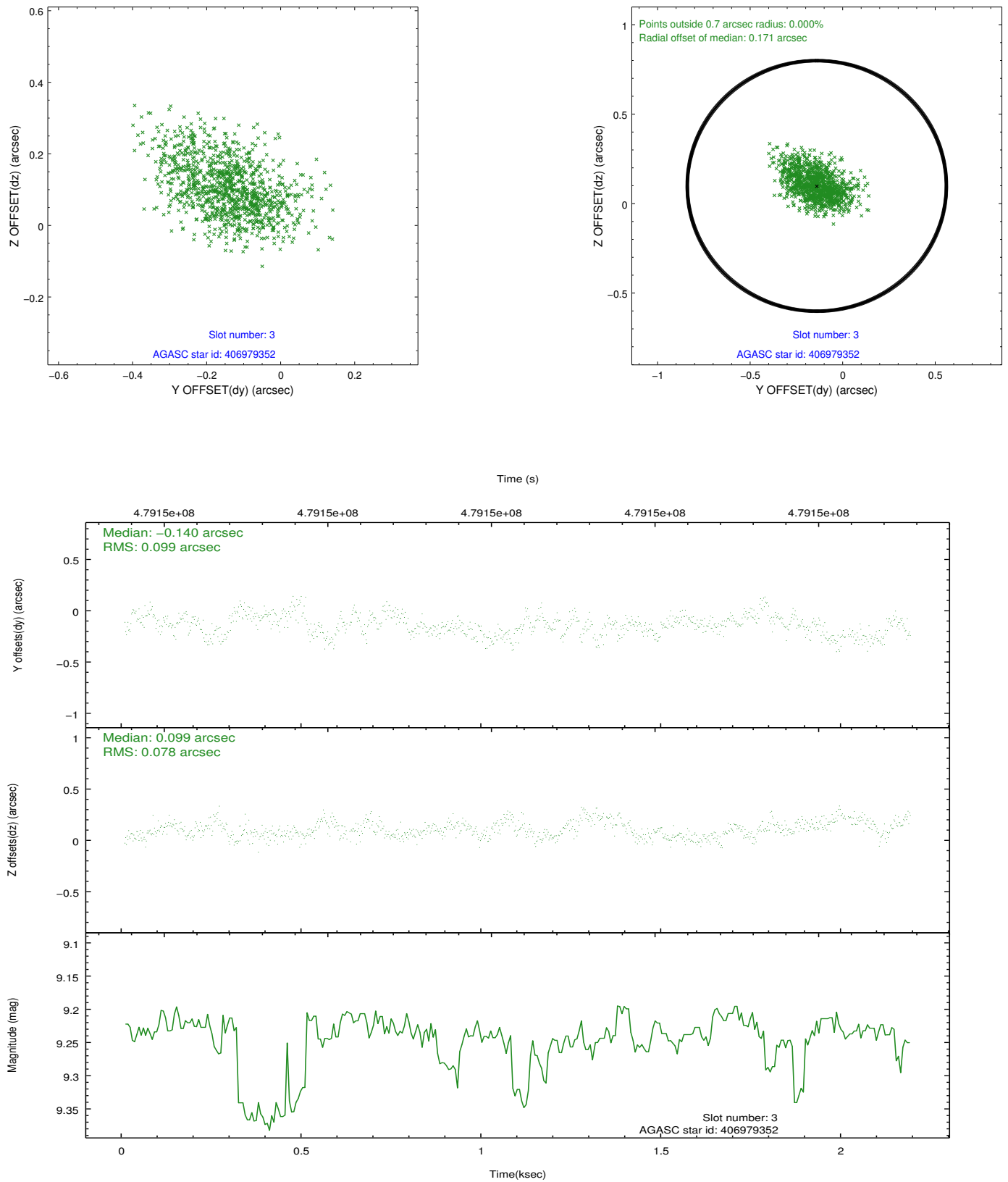
### Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		HRC-I-1	6.97	533	-0.102	0.036	0.007	0.013	0.000000	0.000000	-769.82	-1301.48
1	FID		HRC-I-2	7.00	533	0.274	-0.150	0.006	0.010	0.000000	0.000000	841.74	-1305.69
2	FID		HRC-I-3	7.05	533	-0.053	0.023	0.006	0.012	0.000000	0.000000	-1196.66	1000.62
3	GUIDE	used	406979352	9.24	1059	-0.140	0.099	0.133	0.216	279.968297	39.230258	2196.98	-1440.77
4	GUIDE	used	406987272	6.95	1066	0.086	-0.184	0.063	0.102	278.536588	38.437504	-1682.76	1588.18
5	GUIDE	used	406989616	8.23	1066	0.176	0.286	0.083	0.137	279.202881	38.520843	-868.64	-125.64
6	GUIDE	used	407510432	8.12	1066	-0.061	-0.137	0.077	0.131	278.762778	39.530640	2268.86	2083.72
7	GUIDE	used	406990192	8.99	1065	-0.065	-0.068	0.096	0.156	278.510952	38.533654	-1371.12	1756.93

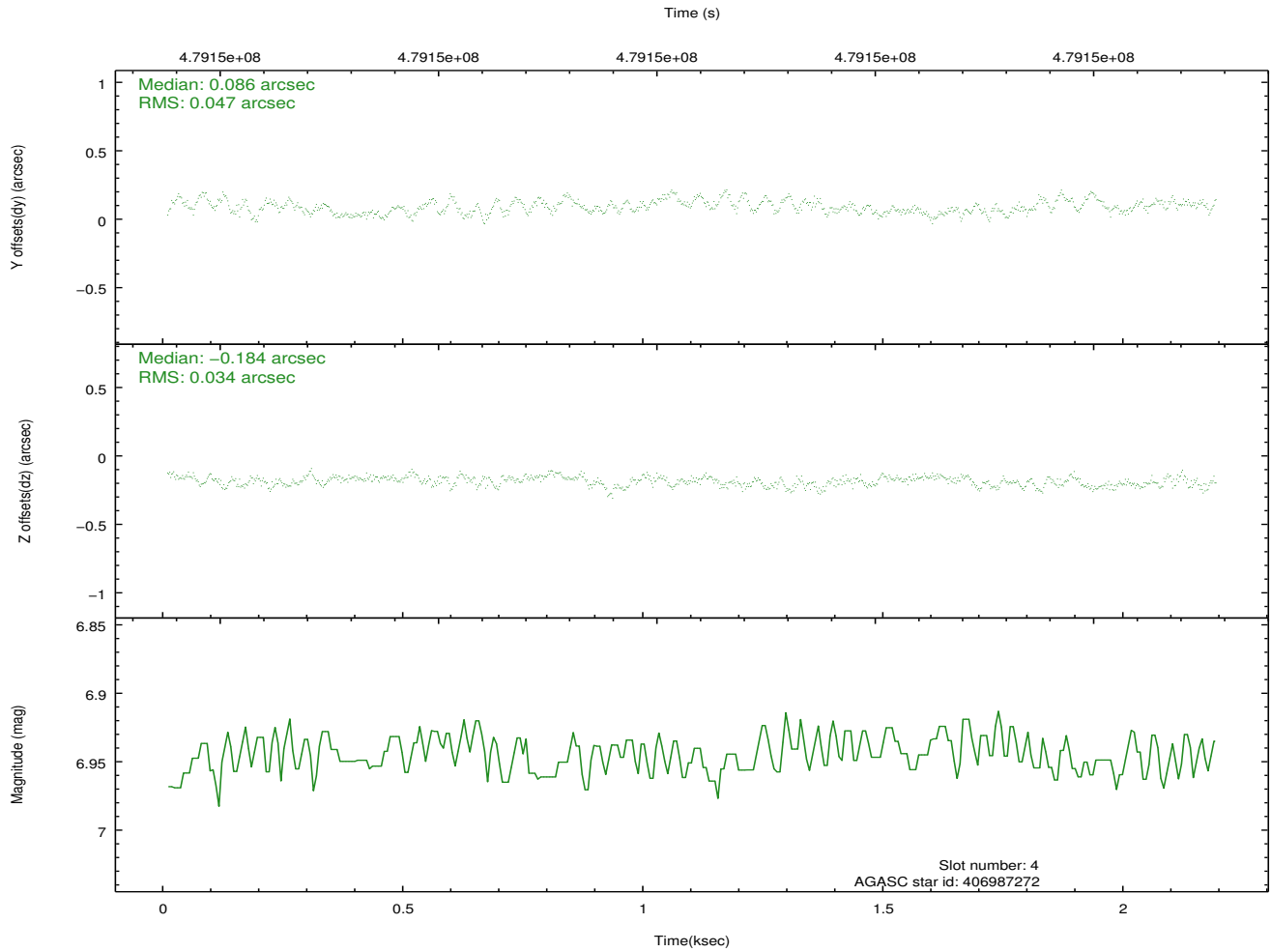
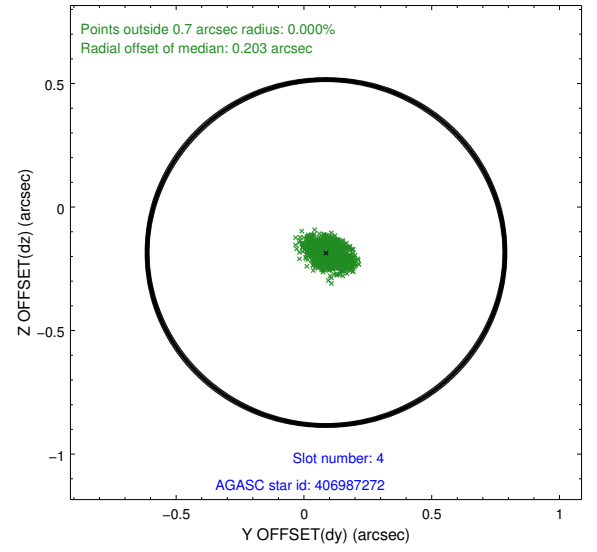
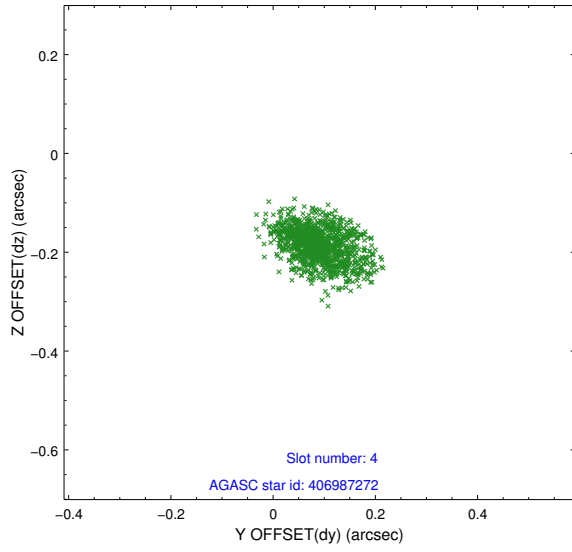


## 2.4 Star Slots

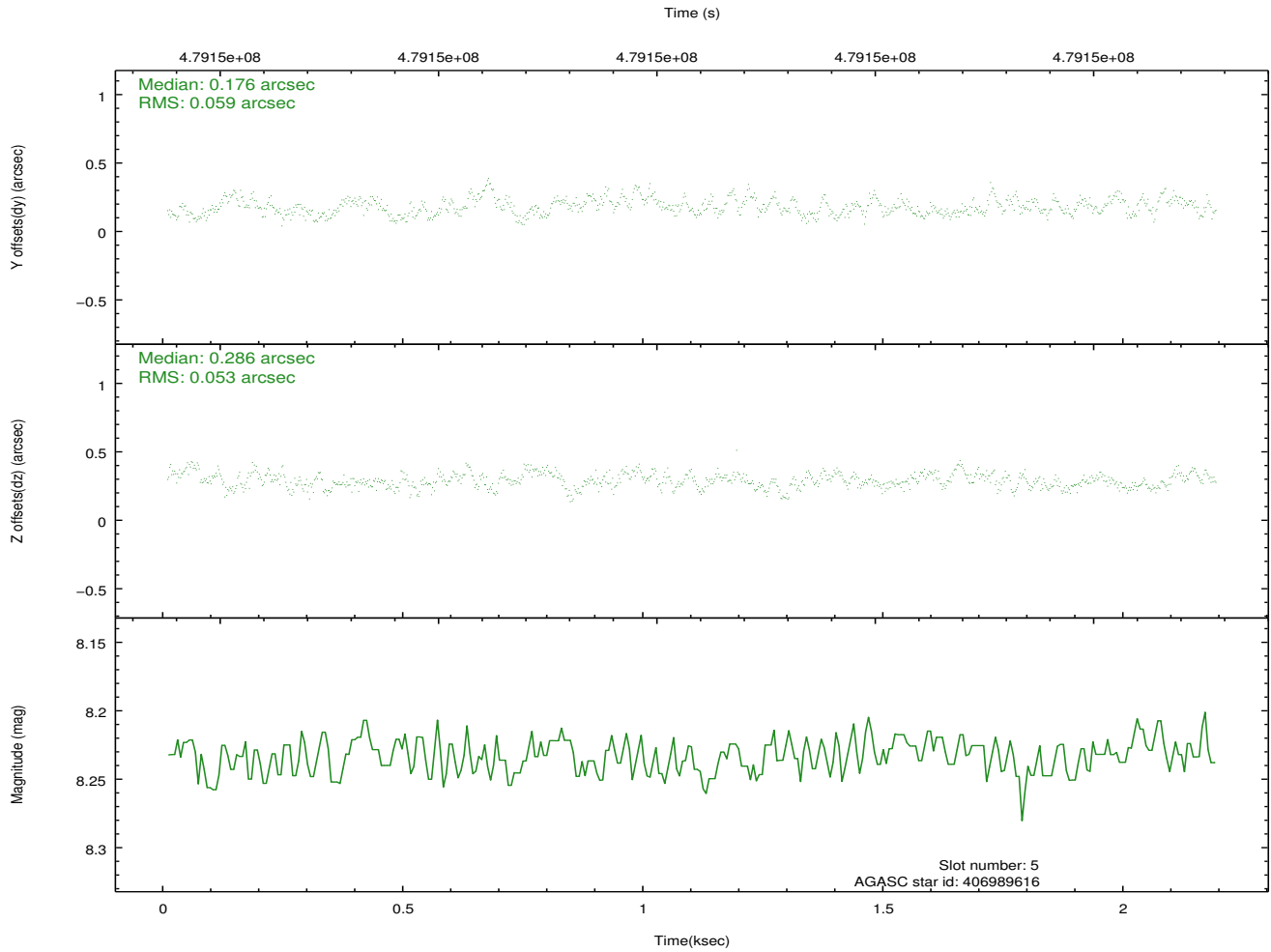
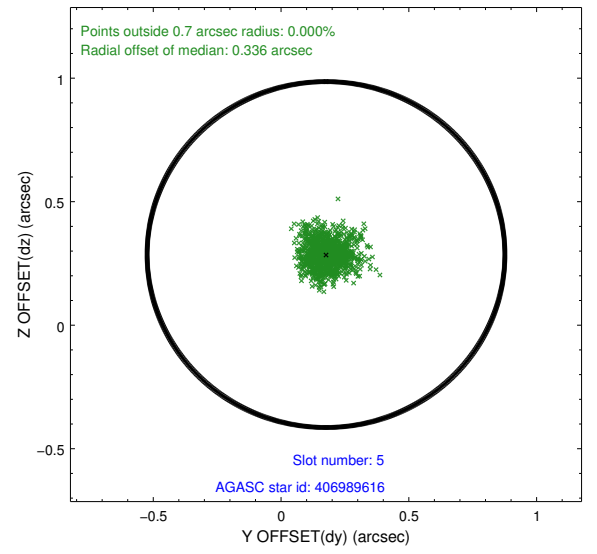
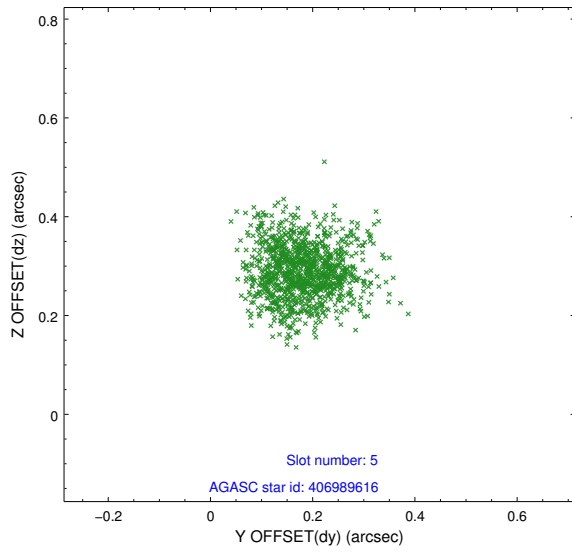
### 2.4.1 Slot 3



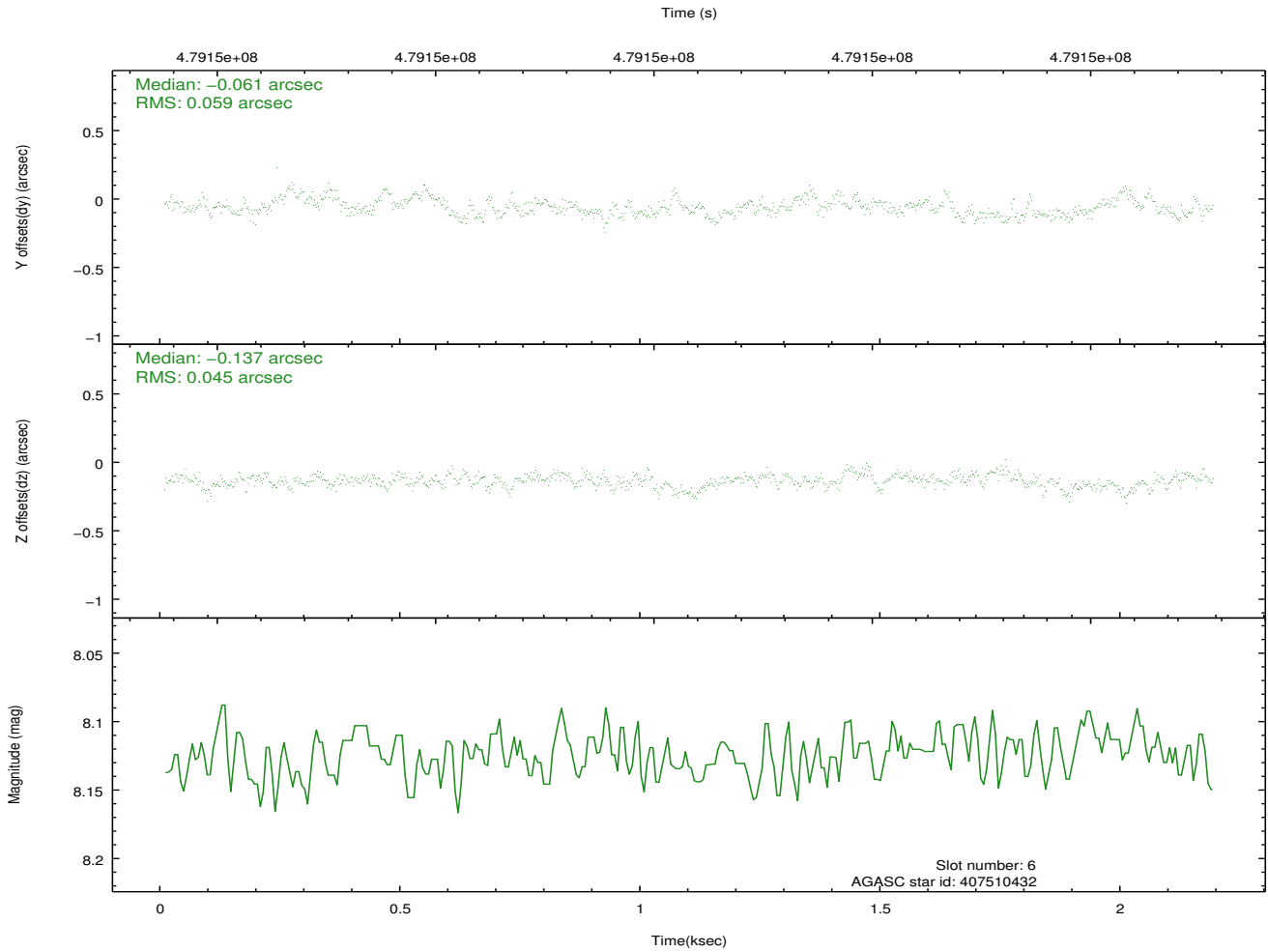
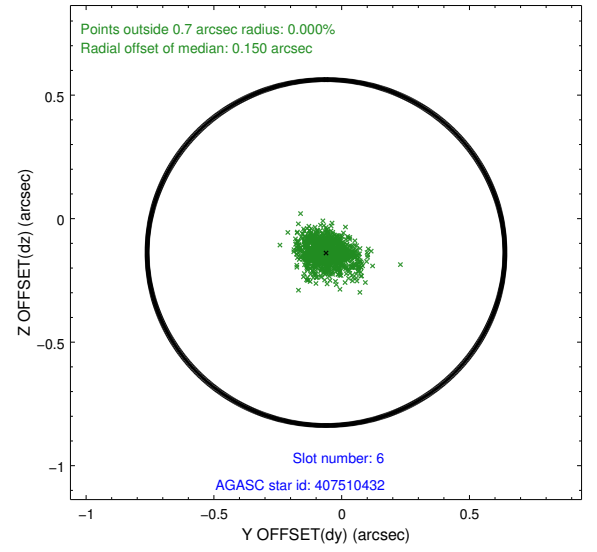
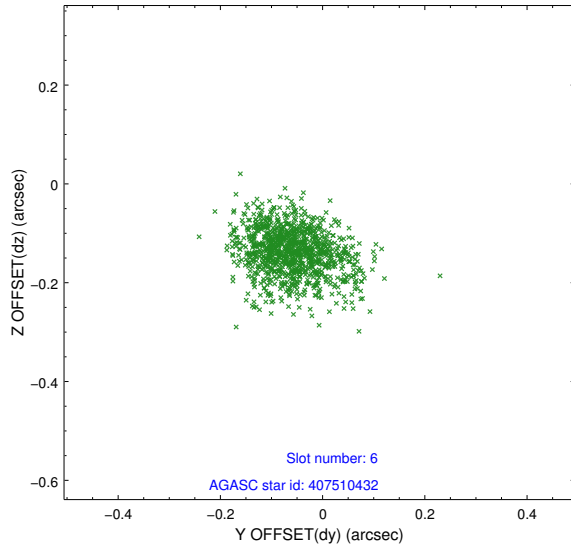
## 2.4.2 Slot 4



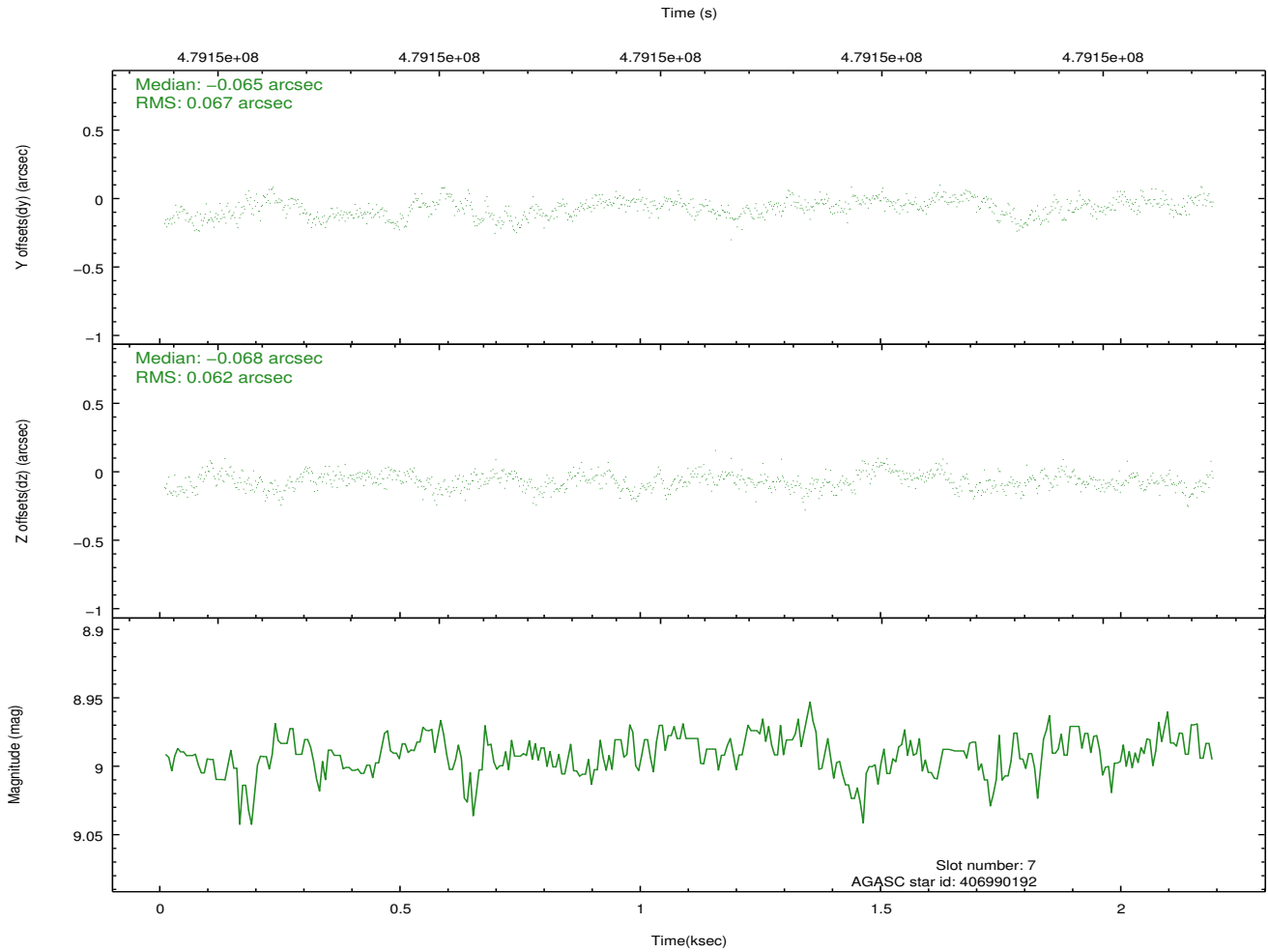
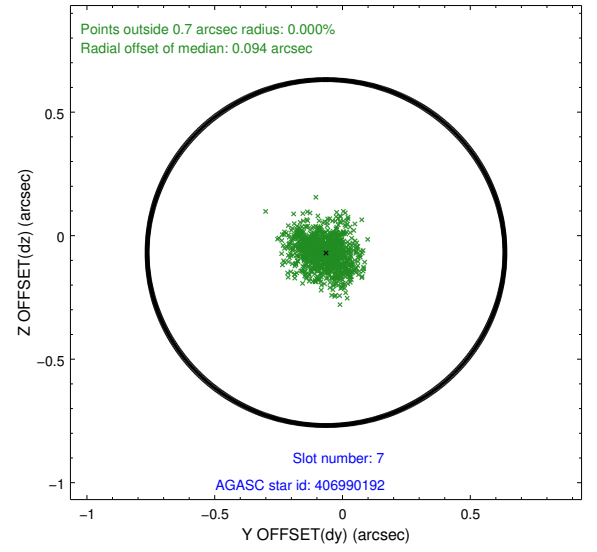
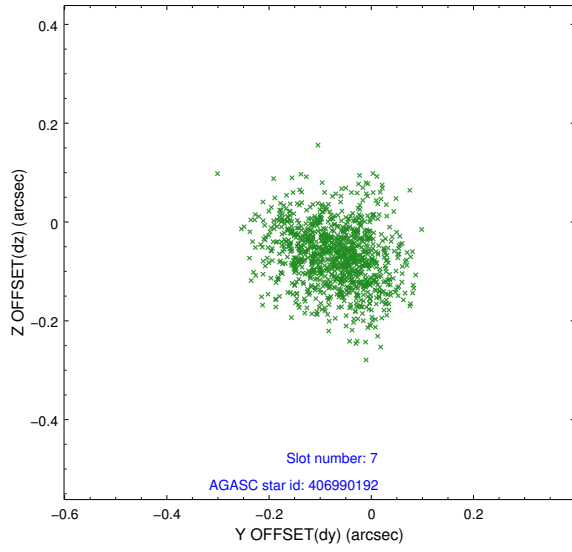
### 2.4.3 Slot 5



## 2.4.4 Slot 6

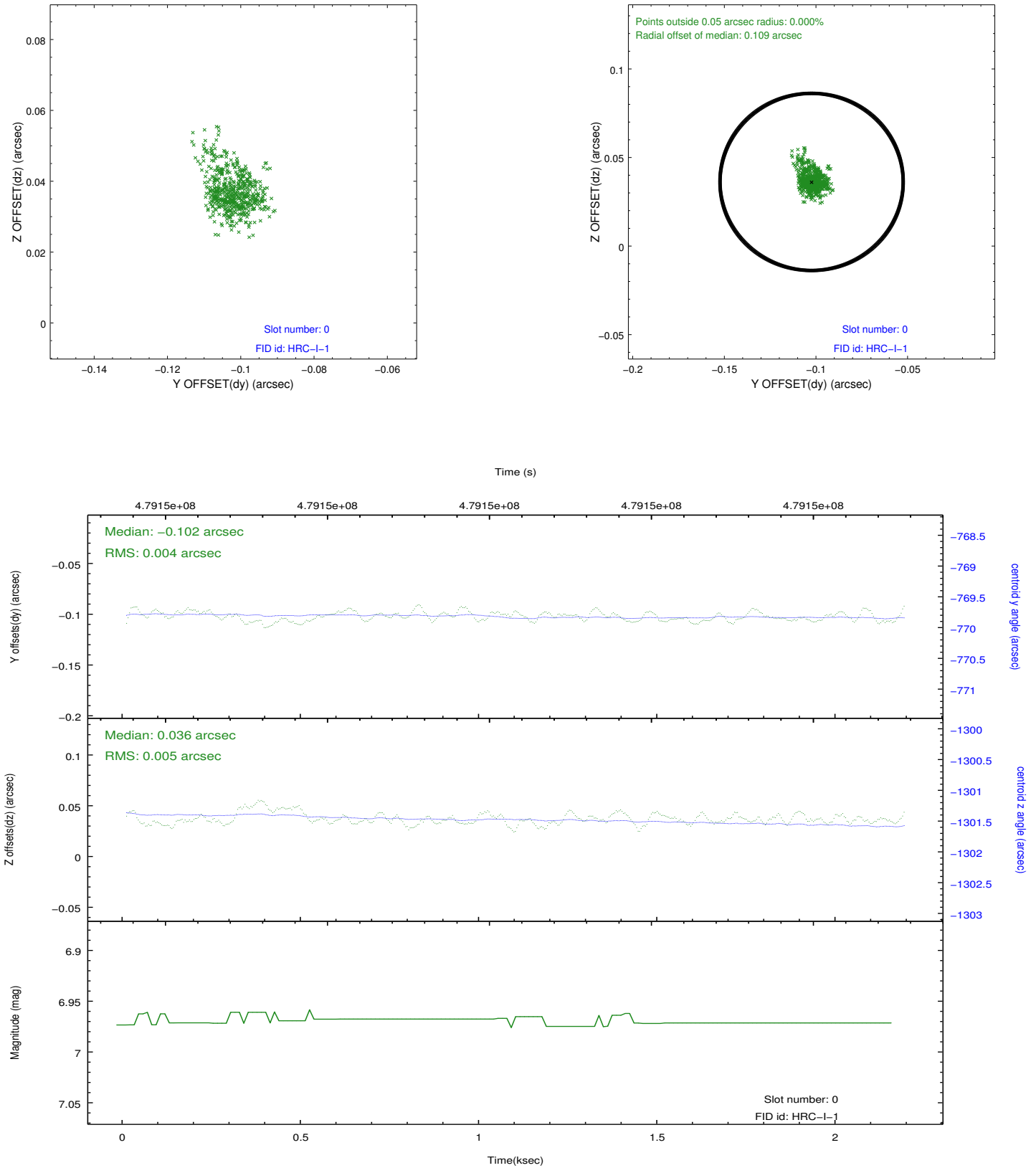


## 2.4.5 Slot 7

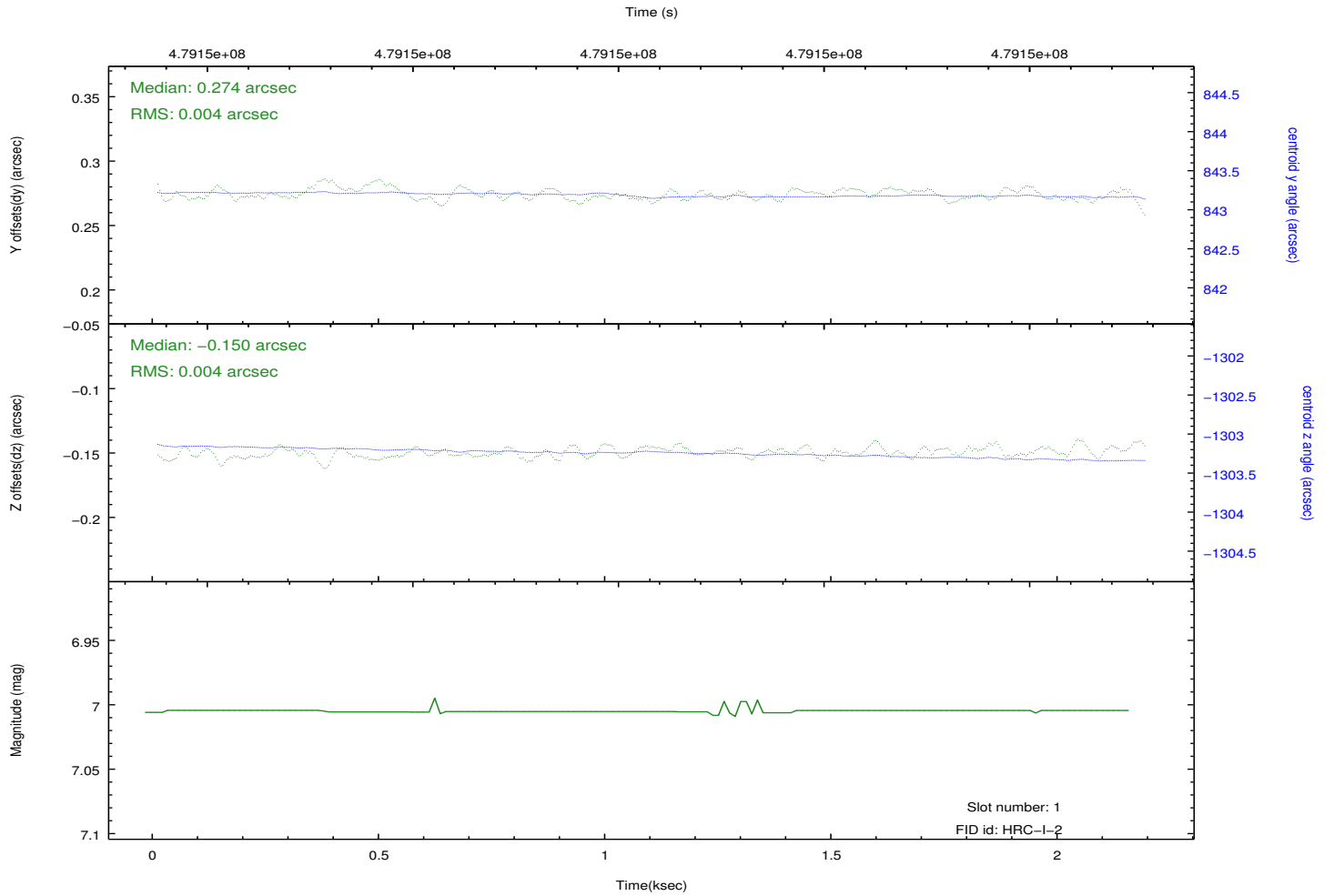
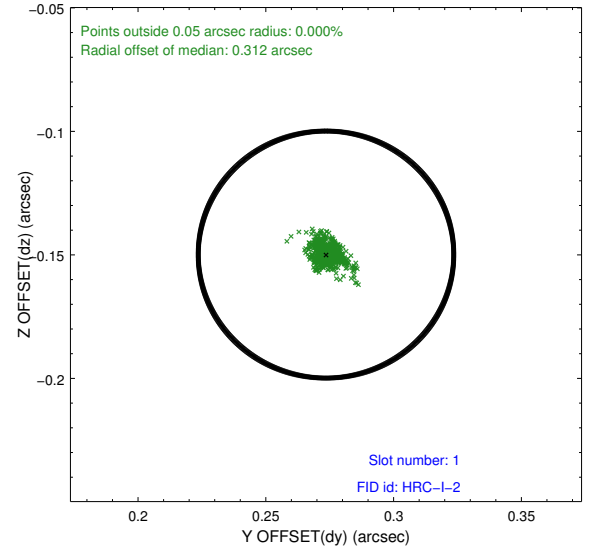
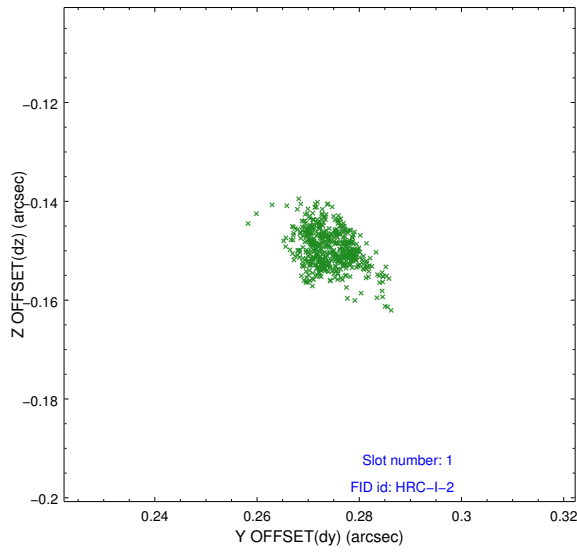


## 2.5 FID Slots

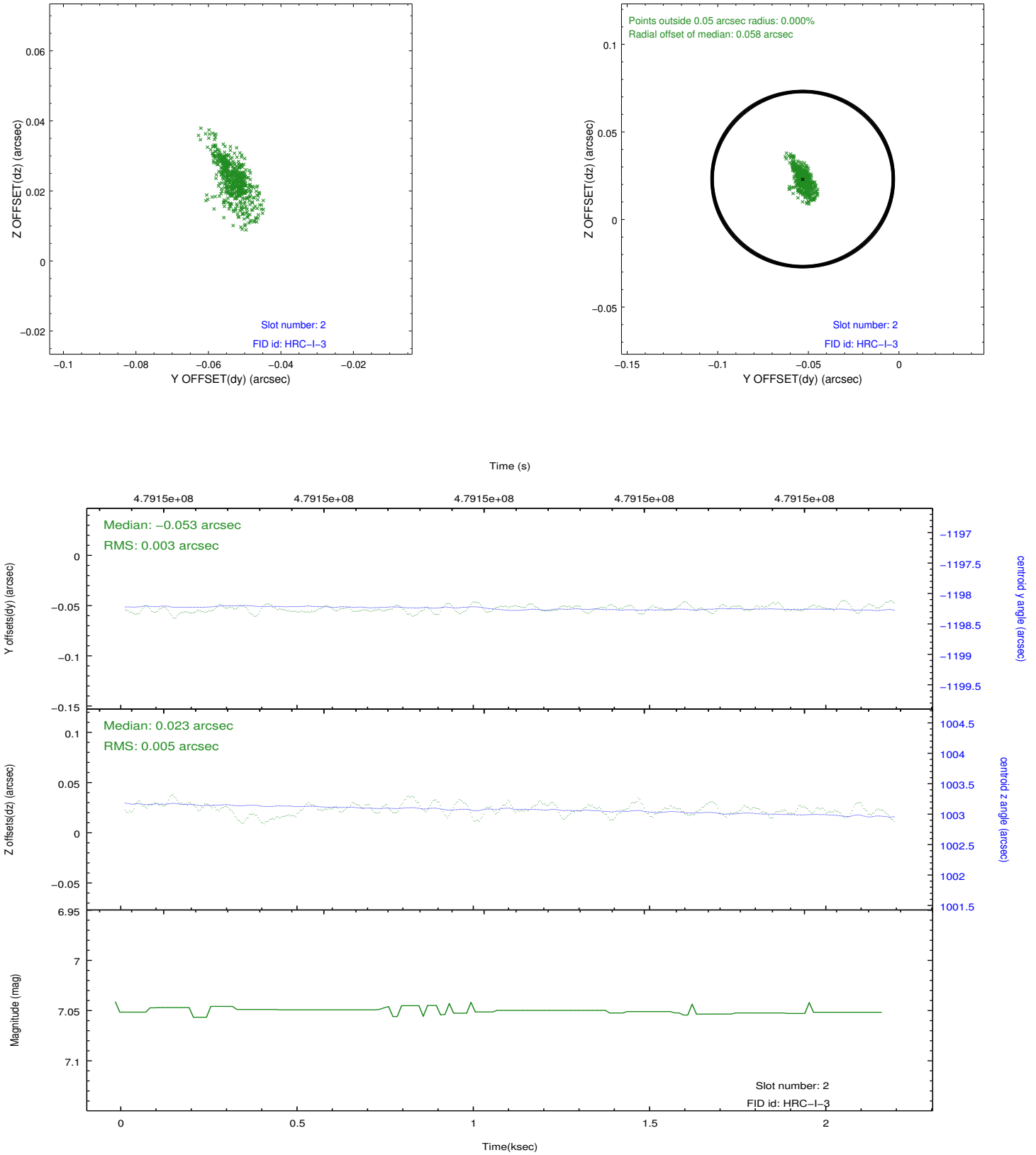
### 2.5.1 Slot 0



## 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)	2014.12.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.1822251179814

## 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.