

# V&V Reference Report

## L2 ASCDS Version : 8.4.3

Observation 14249 - L2 Version 3  
Chandra X-Ray Center

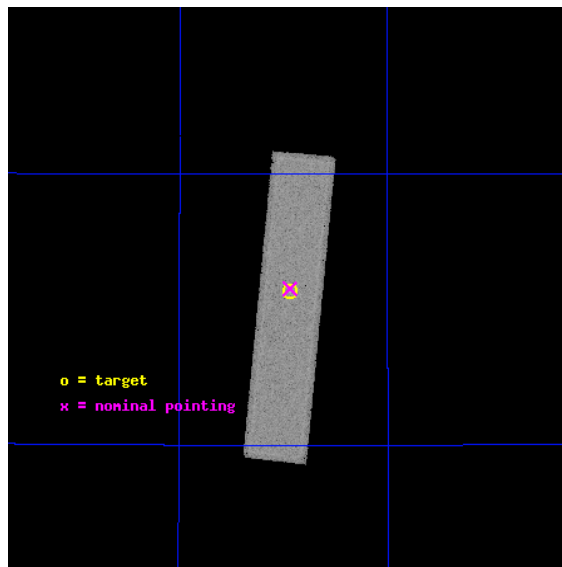
L2 Processing Date : Aug 10 2012

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# 1 Front

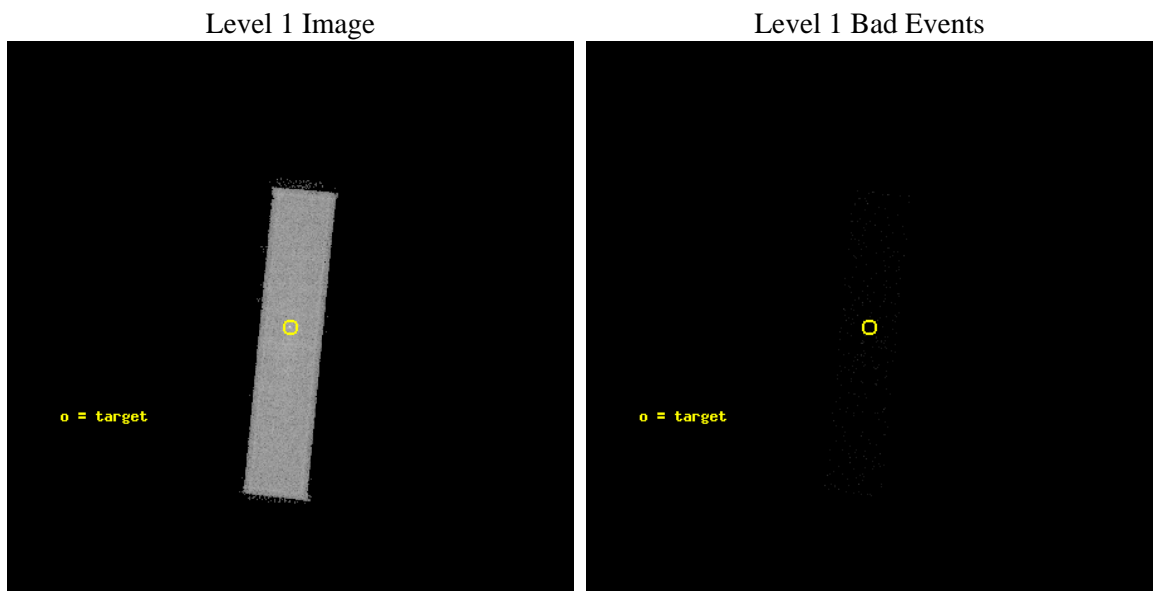
seq_num	291022	Sequence number
obs_id	14249	Observation id
title	AO-13 Measurements of the optical/UV Transmission of the HRC Filters.	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	Vega	Source name
ra_targ	279.235	Observer's specified target RA [deg]
dec_targ	38.783778	Observer's specified target Dec [deg]
ra_nom	279.23444896667	Nominal RA [deg]
dec_nom	38.78850307899	Nominal Dec [deg]
roll_nom	95.486055009277	Nominal Roll [deg]
revision	3	Processing version of data
ontime	2187.3501159549	[s]
livetime	2172.9946737658	Ontime multiplied by DTCOR
l2events	92278	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	8.4.5	Processing system revision	ontime	2187.3501159549	[s]
caldbver	4.5.1.1	&#160	l1events	174600	Number of level 1 events
date	2012-08-10T06:22:31	Date and time of file creation			
revision	3	Processing version of data			

### 2.1.3 Events

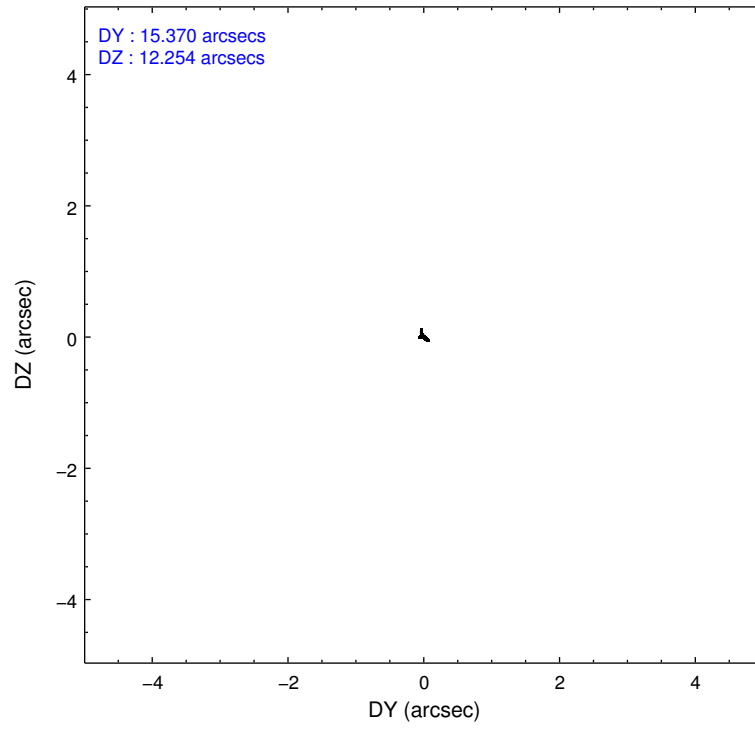
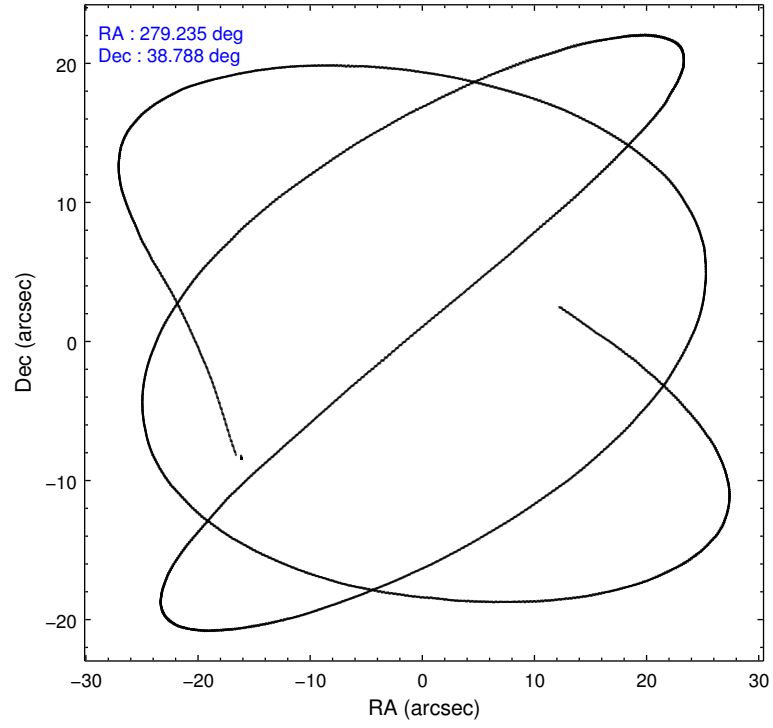
Level 1 Events

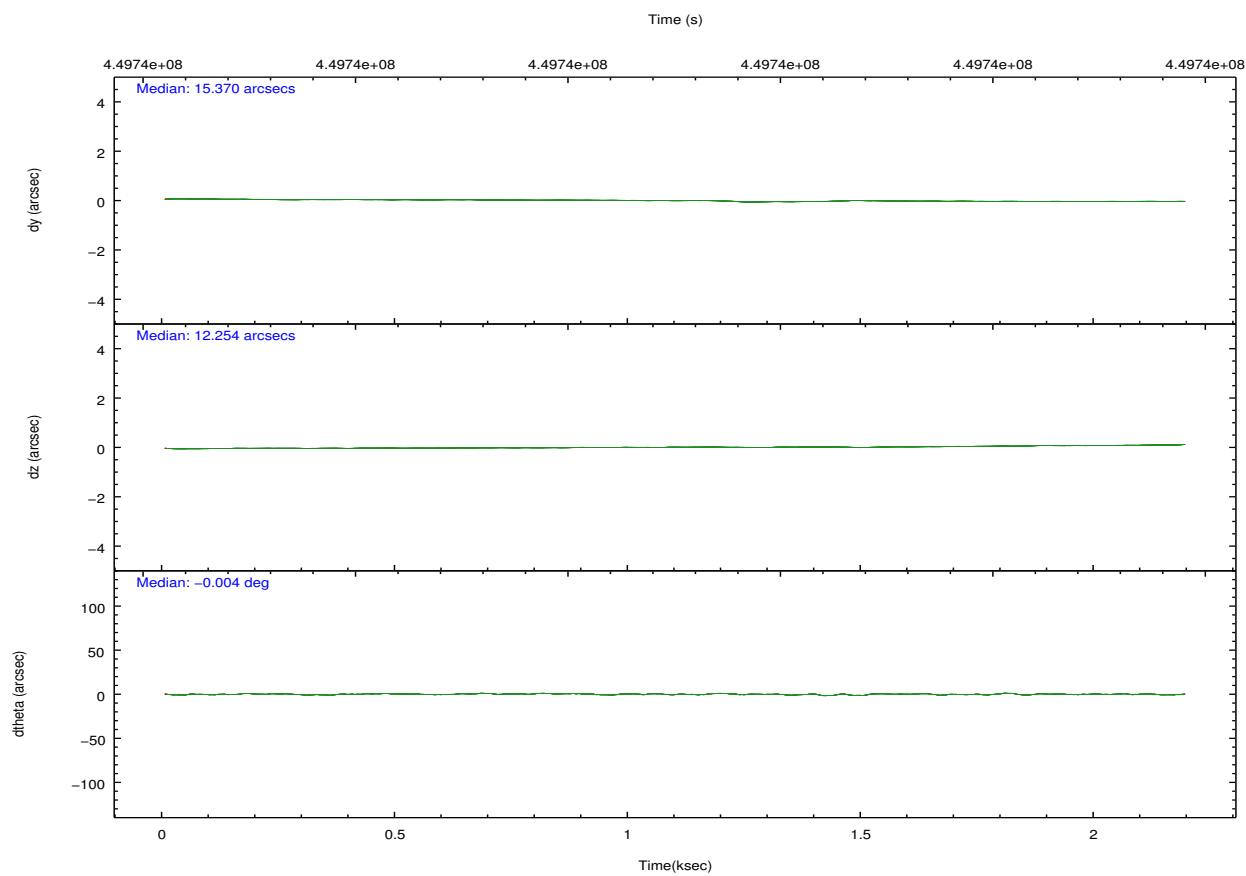
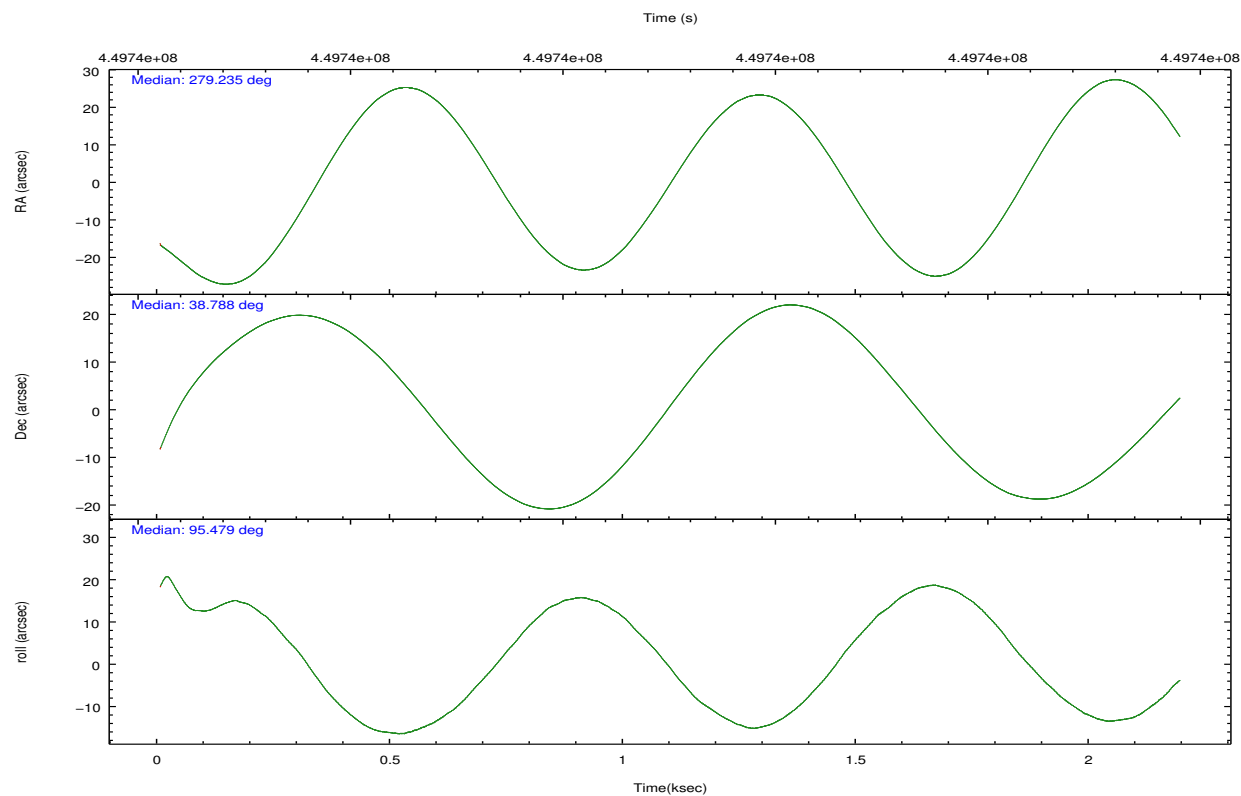
	<b>segment 1</b>	<b>segment 2</b>	<b>segment 3</b>
level 1 events	0	174600	0
rejected events	0	57433	0
rejected %	0%	32%	0%

## 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	279.257351	279.2344489666656			
[deg] Pointing Dec	38.766010	38.78850307899005			
[deg] Pointing Roll	95.404301	95.48605500927705			
[s] Window start time (MET)	446947266.184000	446947266.184000			
[s] Window stop time (MET)	452131266.184000	452131266.184000			
[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)	449735845.184000	449734632.8928			
Observation start date	2012-04-02T06:36:19	2012-04-02T06:17:12			
[s] Observation end time (MET)	449737845.184000	449738600.66801			
Observation end date	2012-04-02T07:09:39	2012-04-02T07:23:20			

## 2.3 Aspect





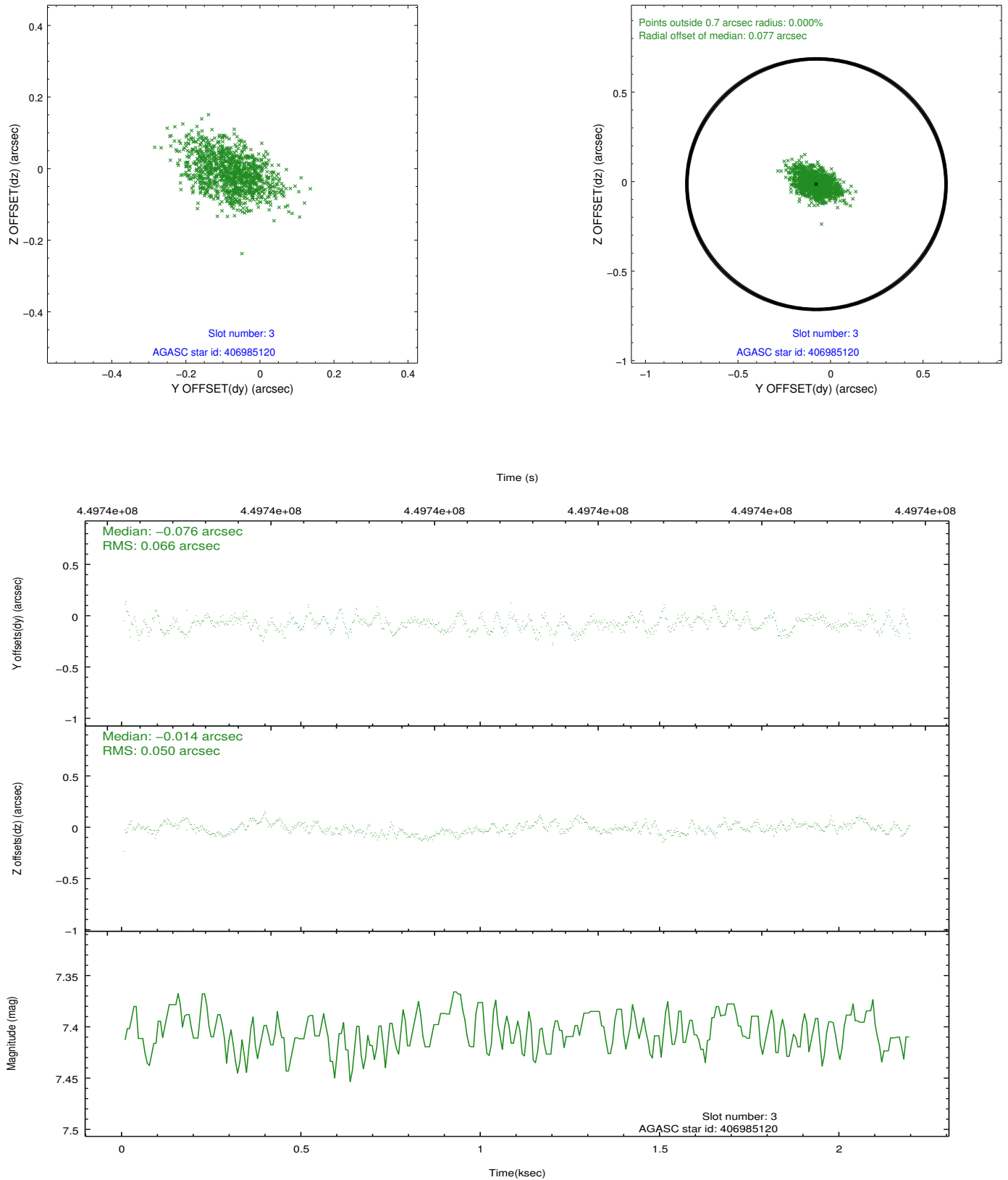
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-S-1	7.00	535	0.029	-0.130	0.007	0.010	0.000000	0.000000	-1169.83	-461.02
1	FID	HRC-S-2	6.97	535	0.278	-0.120	0.005	0.010	0.000000	0.000000	1227.89	-454.48
2	FID	HRC-S-3	6.99	535	0.083	-0.052	0.007	0.012	0.000000	0.000000	-1170.21	567.73
3	GUIDE	406985120	7.41	1069	-0.076	-0.014	0.086	0.144	278.839732	38.894839	574.61	1121.11
4	GUIDE	406987272	6.95	1069	0.000	-0.361	0.081	0.132	278.536588	38.437504	-976.85	2134.96
5	GUIDE	406987384	8.94	1063	0.345	0.055	0.094	0.157	278.815518	38.115336	-2211.61	1468.13
6	GUIDE	407521232	8.66	1066	-0.033	0.084	0.110	0.182	279.628883	39.431715	2289.01	-1252.60
7	GUIDE	407513096	8.16	1068	-0.234	0.239	0.083	0.139	279.928965	39.436841	2237.73	-2087.83

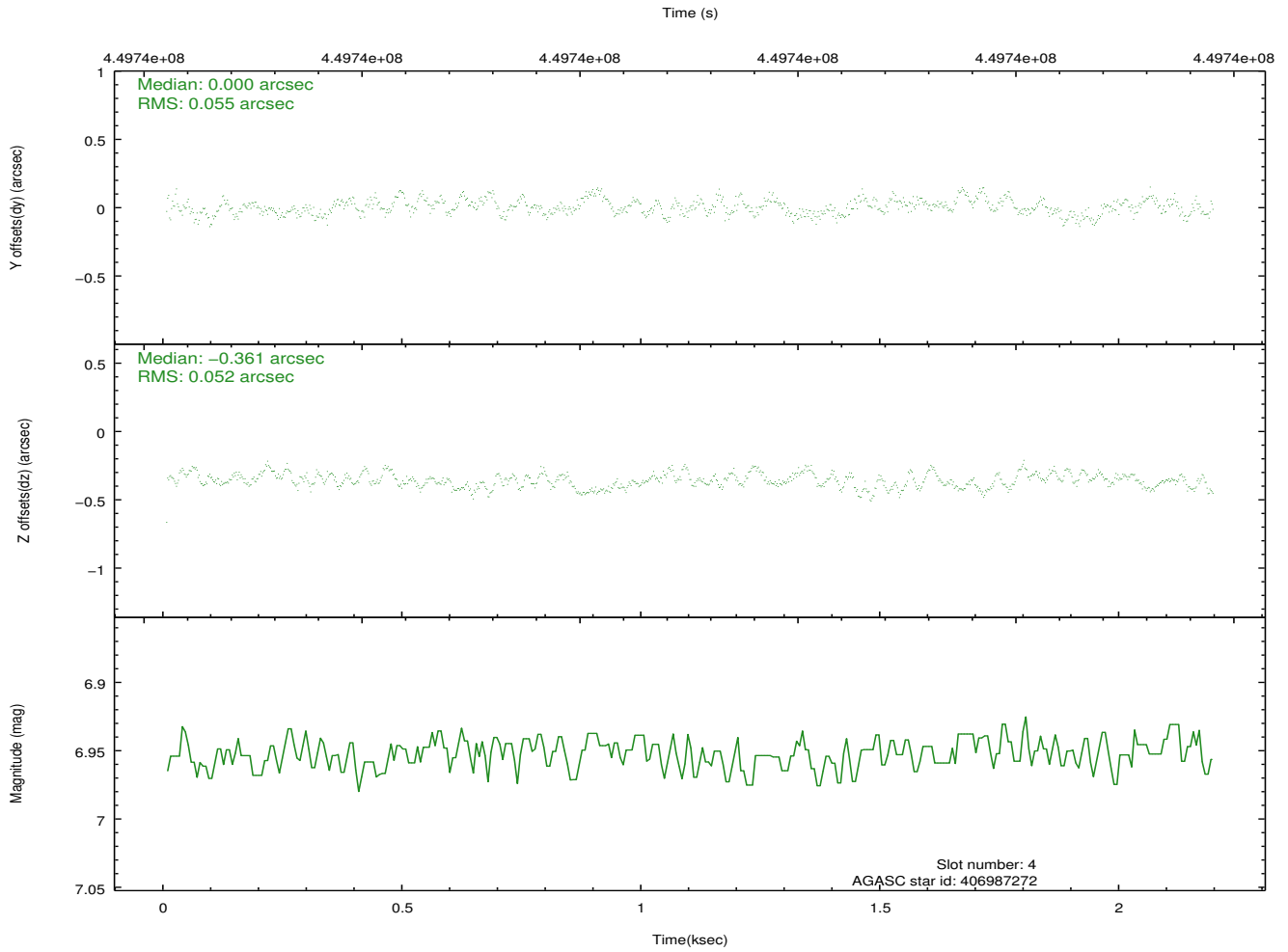
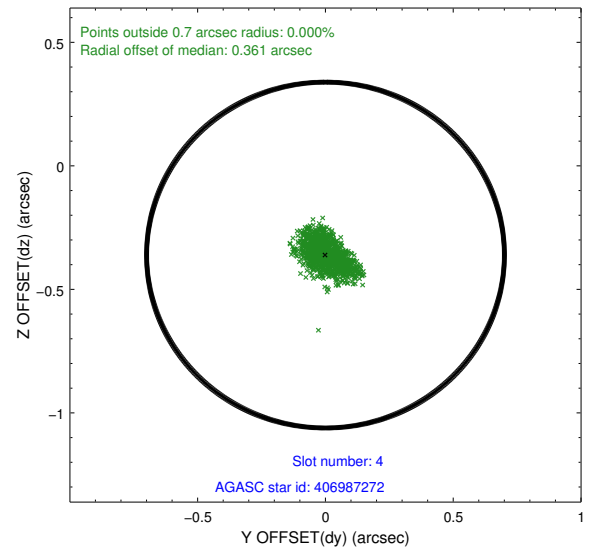
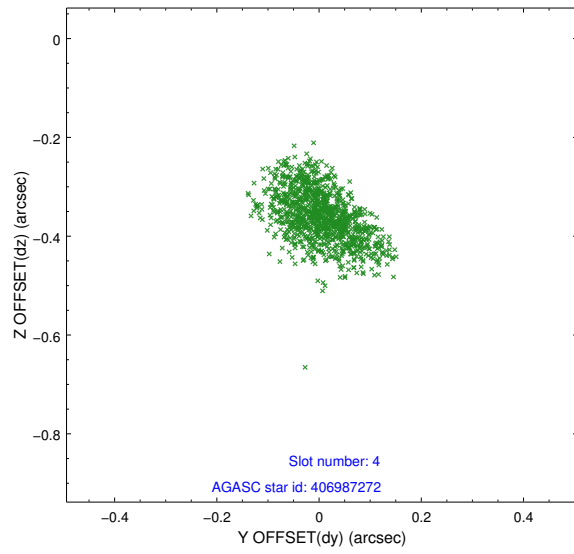


## 2.4 Star Slots

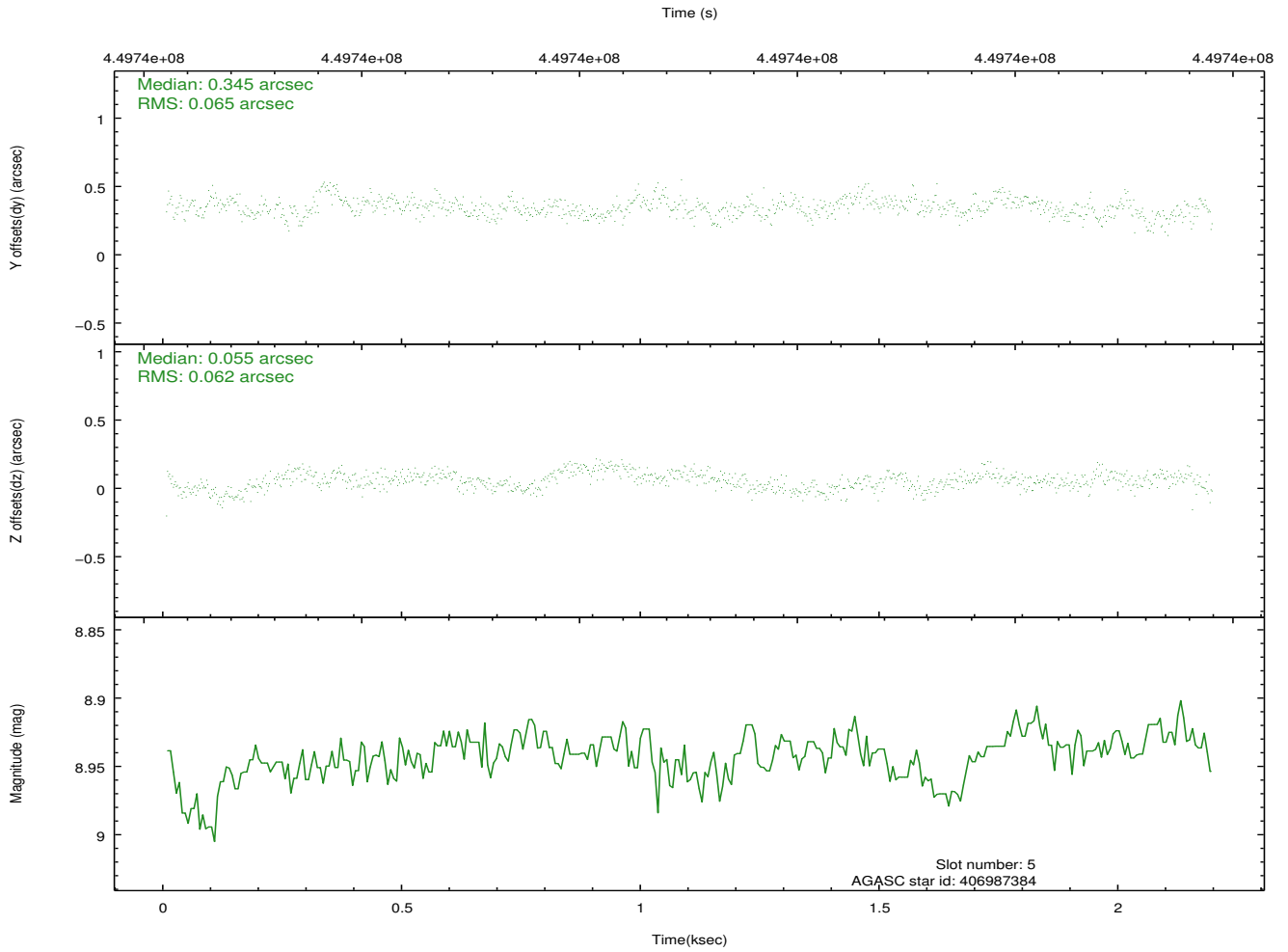
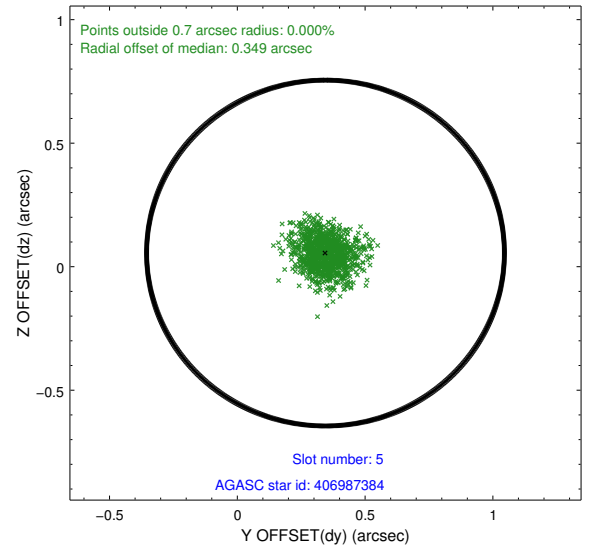
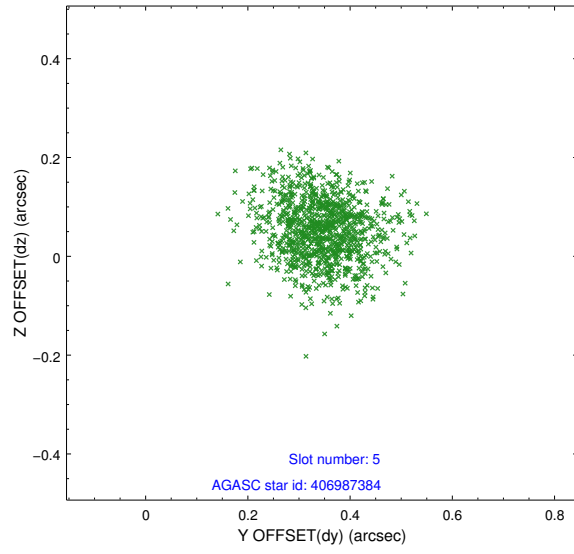
### 2.4.1 Slot 3



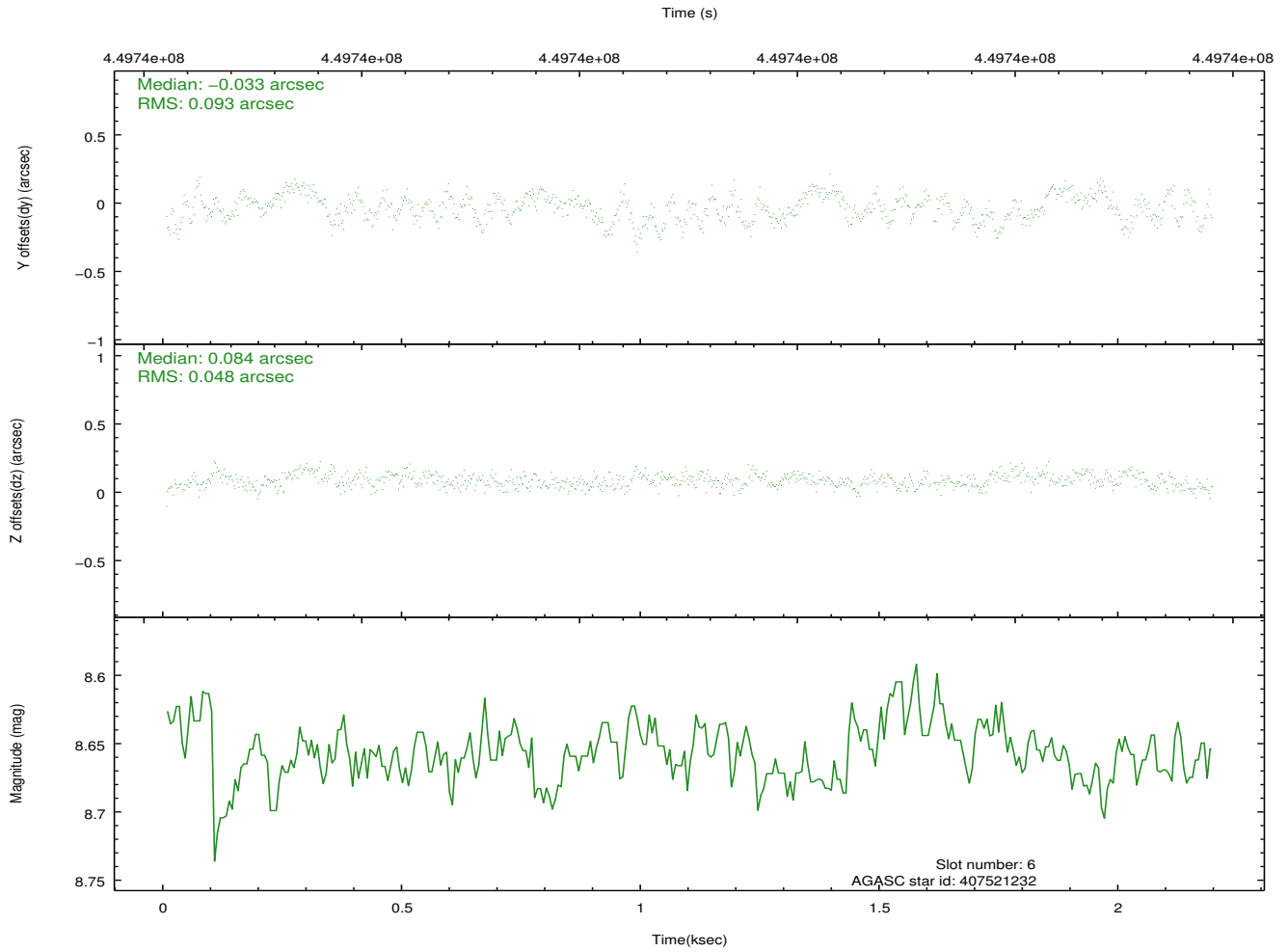
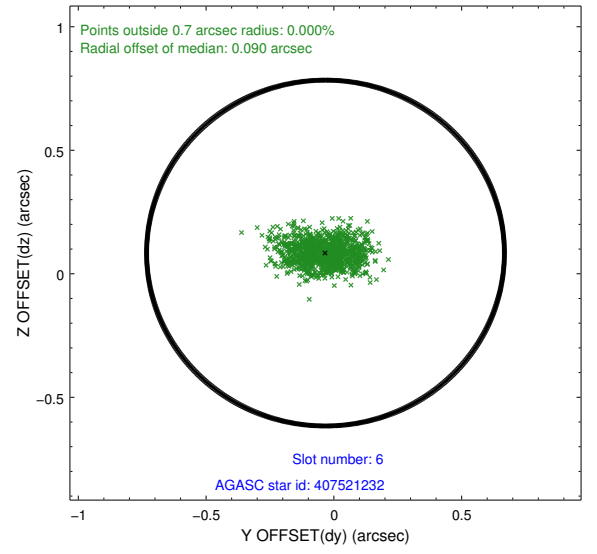
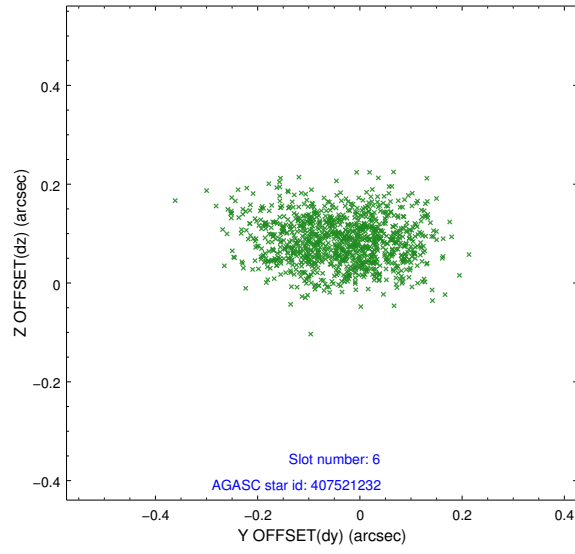
## 2.4.2 Slot 4



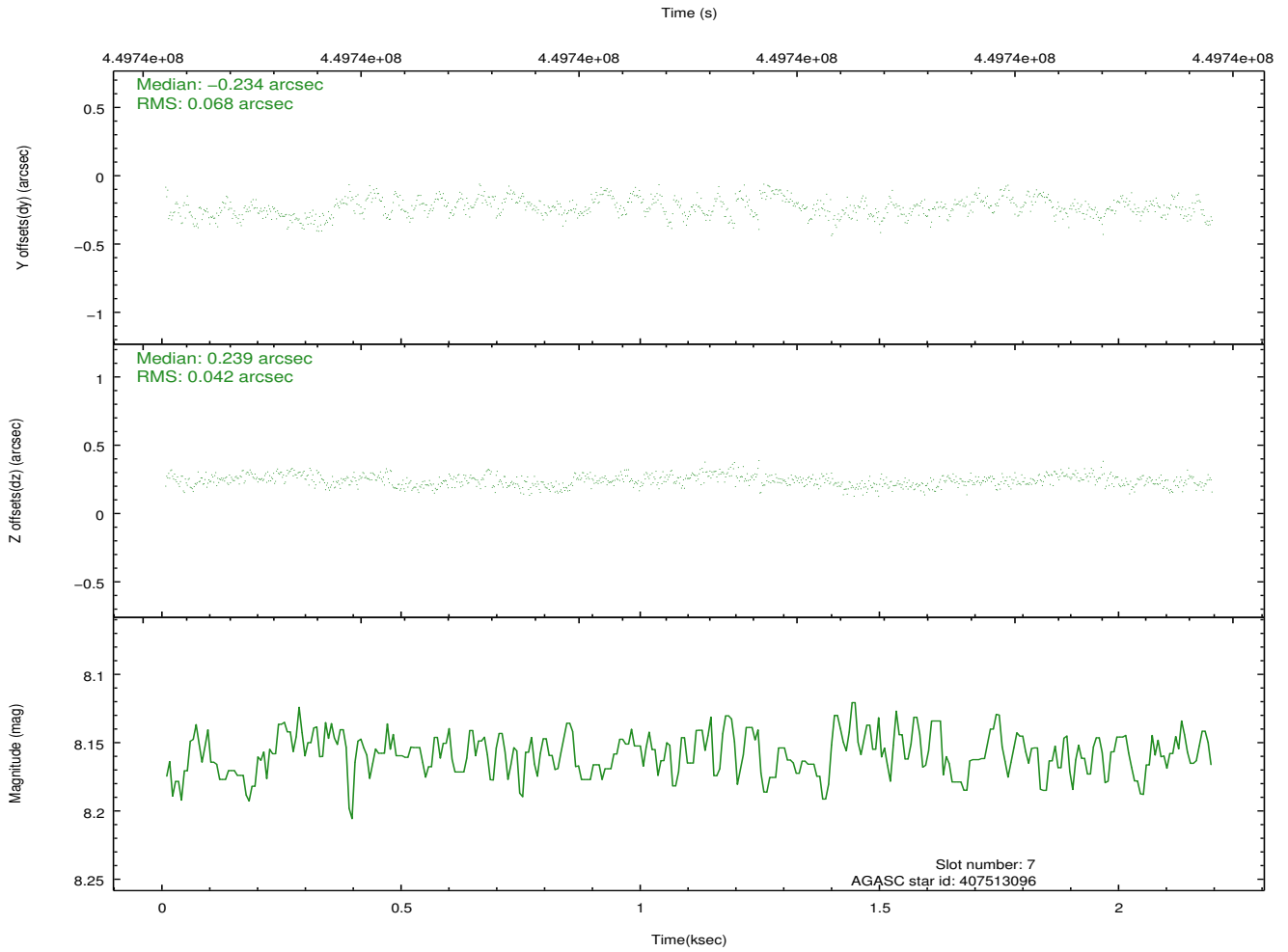
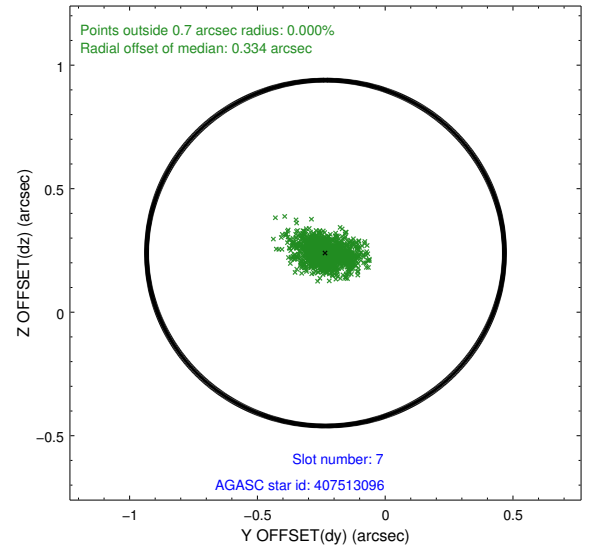
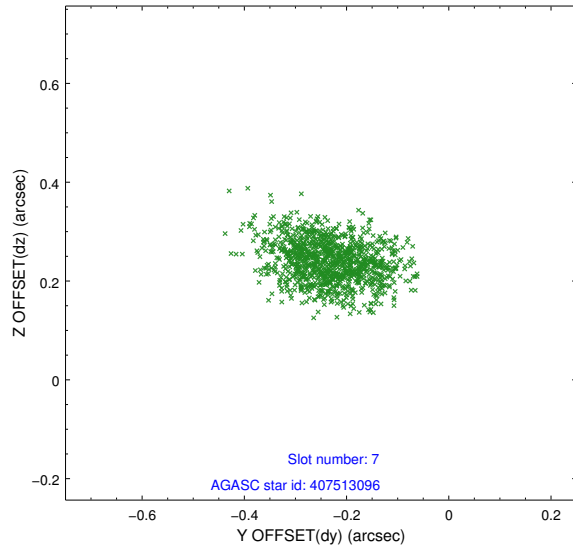
### 2.4.3 Slot 5



## 2.4.4 Slot 6

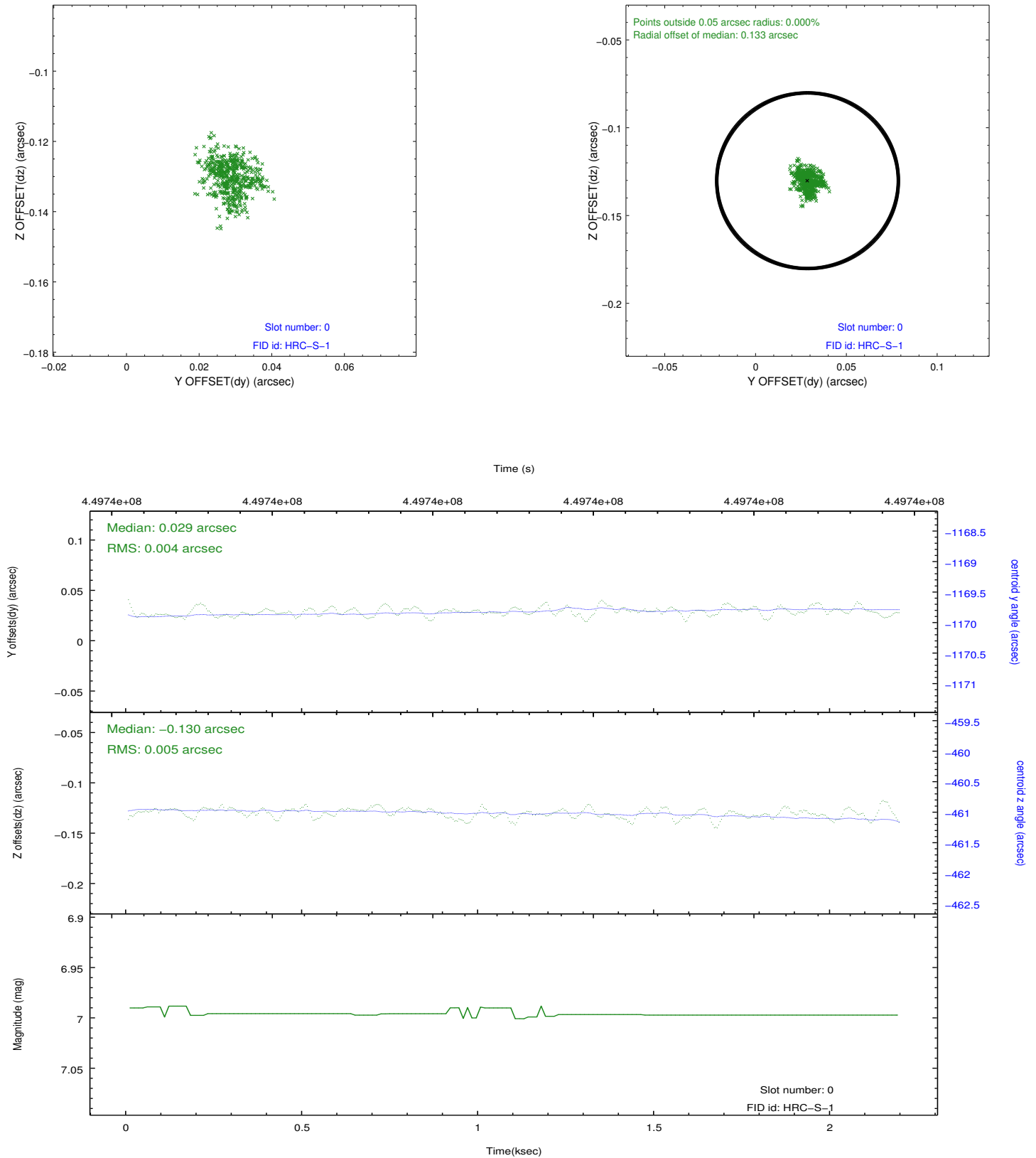


## 2.4.5 Slot 7

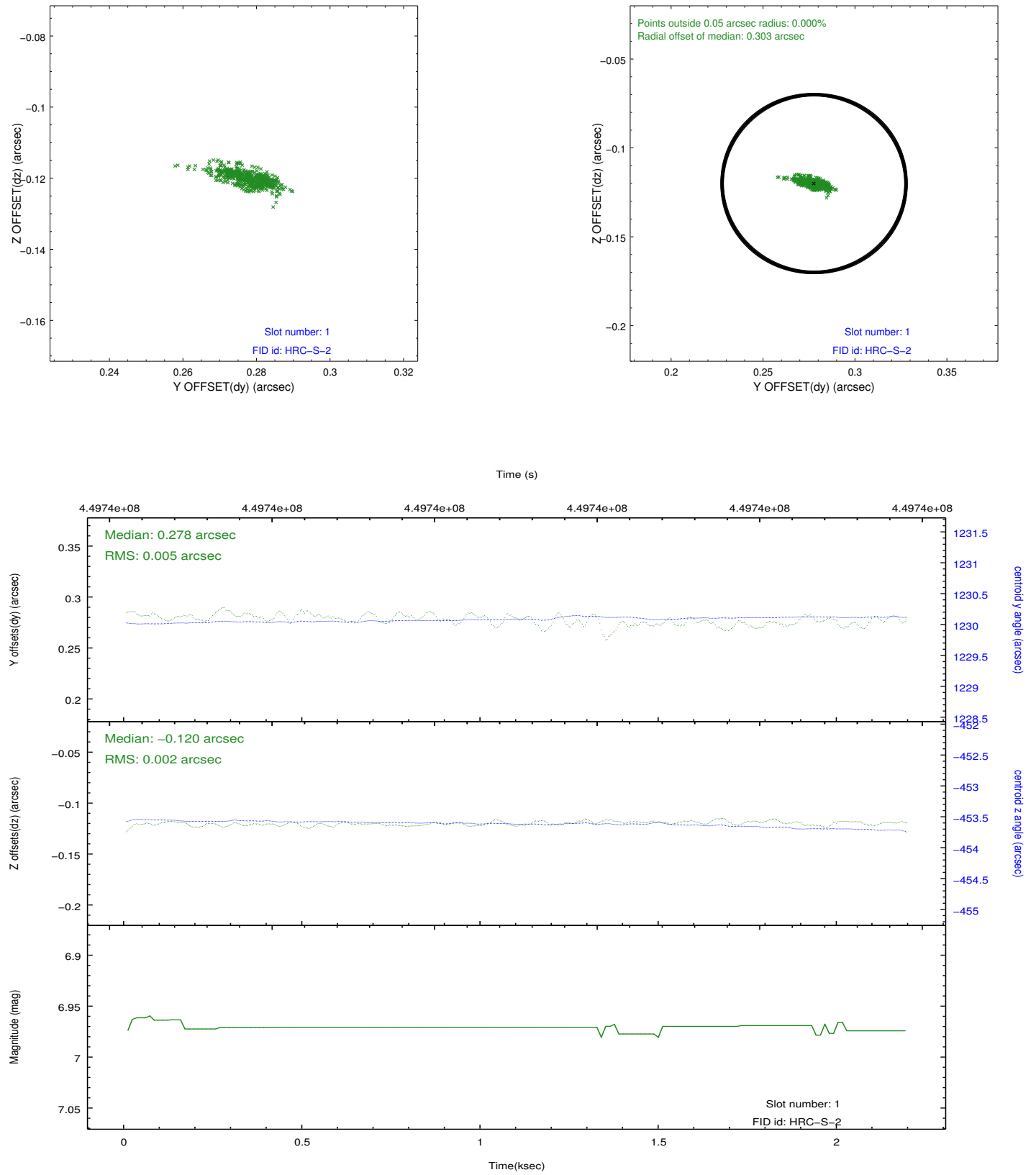


## 2.5 FID Slots

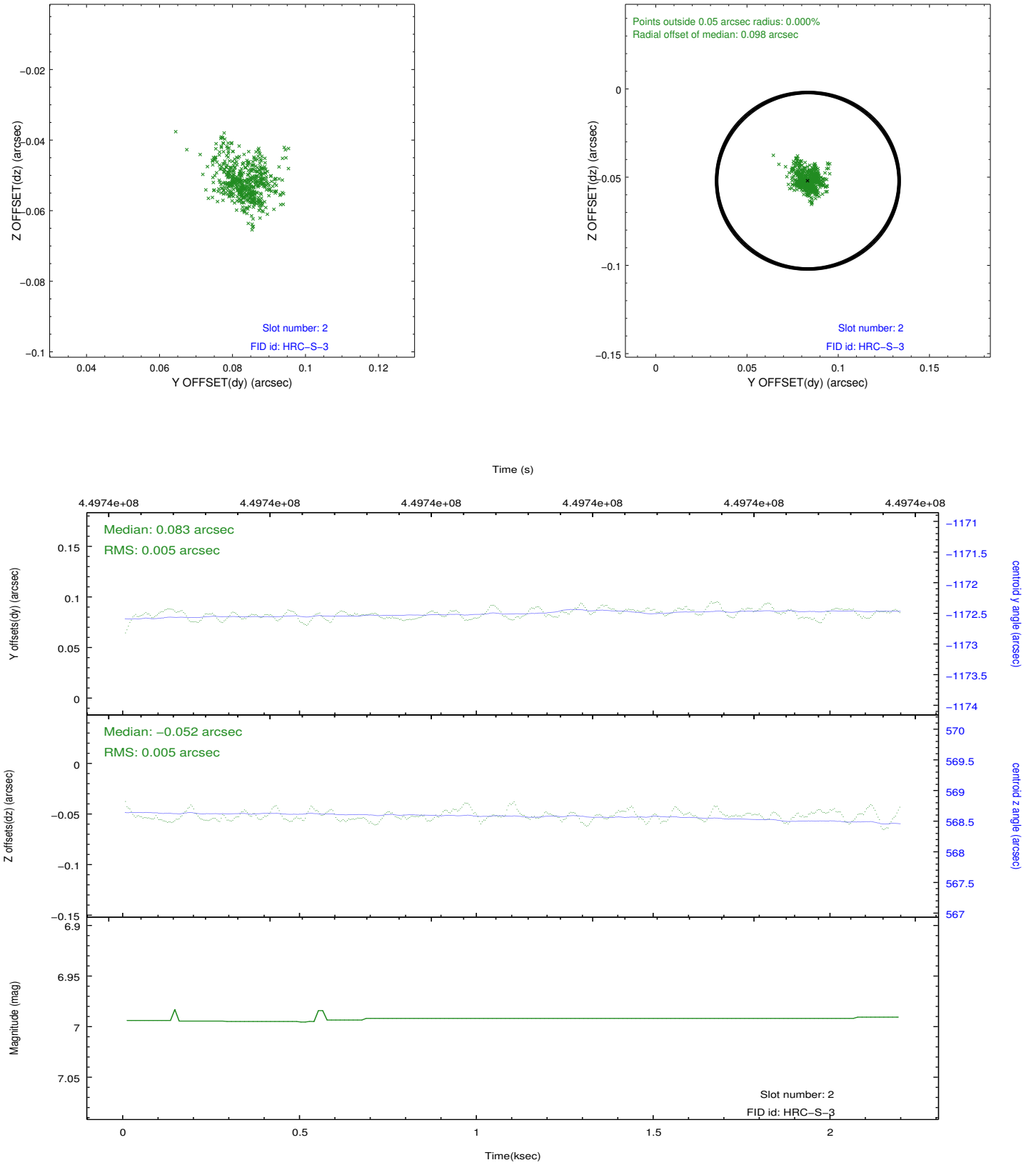
### 2.5.1 Slot 0



## 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)	2012.08.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.1873501159549

### A.2 Comments

Window constraint met.