

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 4330 - L2 Version 3  
Chandra X-Ray Center

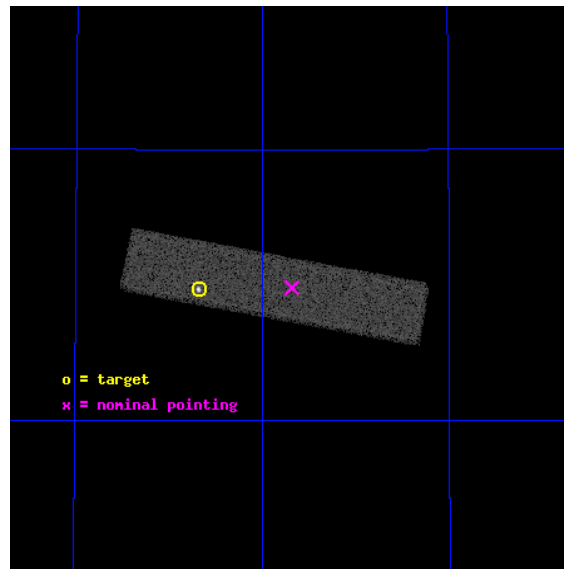
L2 Processing Date : Nov 2 2012

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# 1 Front

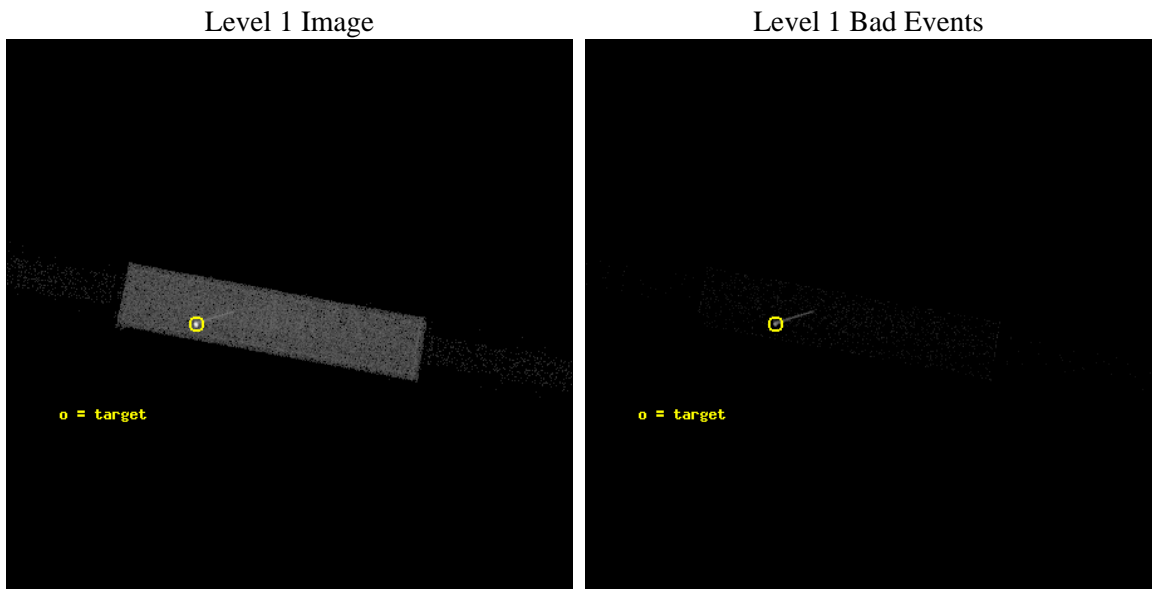
seq_num	290290	Sequence number
obs_id	4330	Observation id
title	AO4B CALIBRATION OBSERVATIONS TO MONITOR SPATIAL VARIATIONS IN THE HRC-S GAIN	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ARLAC	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	331.9202626085	Nominal RA [deg]
dec_nom	45.745765443023	Nominal Dec [deg]
roll_nom	190.39041144574	Nominal Roll [deg]
revision	3	Processing version of data
ontime	1143.1312989593	[s]
livetime	1137.2403519013	Ontime multiplied by DTCOR
l2events	41877	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	8.4.5	Processing system revision	ontime	1143.1312989593	[s]
caldbver	4.5.2	&#160	l1events	68471	Number of level 1 events
date	2012-11-02T16:35:48	Date and time of file creation			
revision	3	Processing version of data			

### 2.1.3 Events

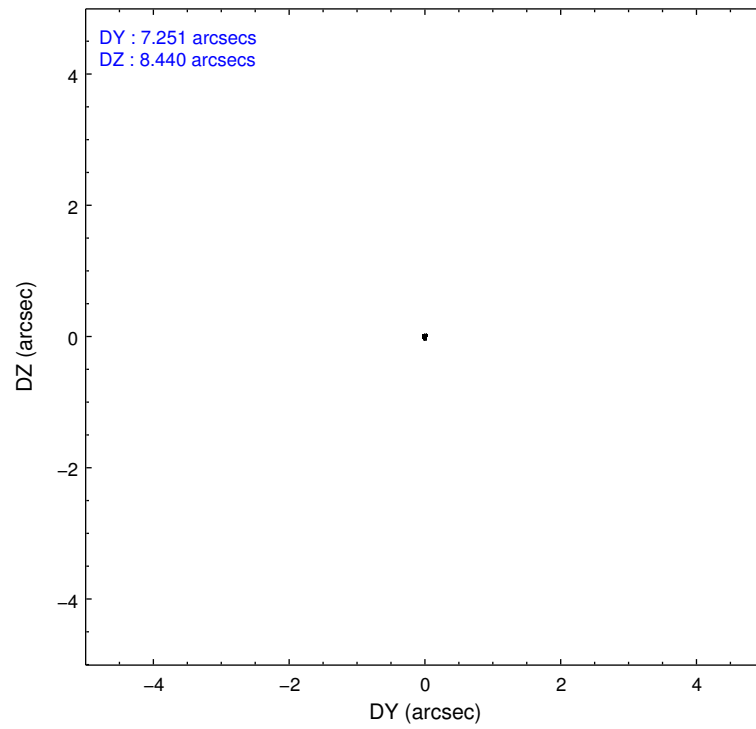
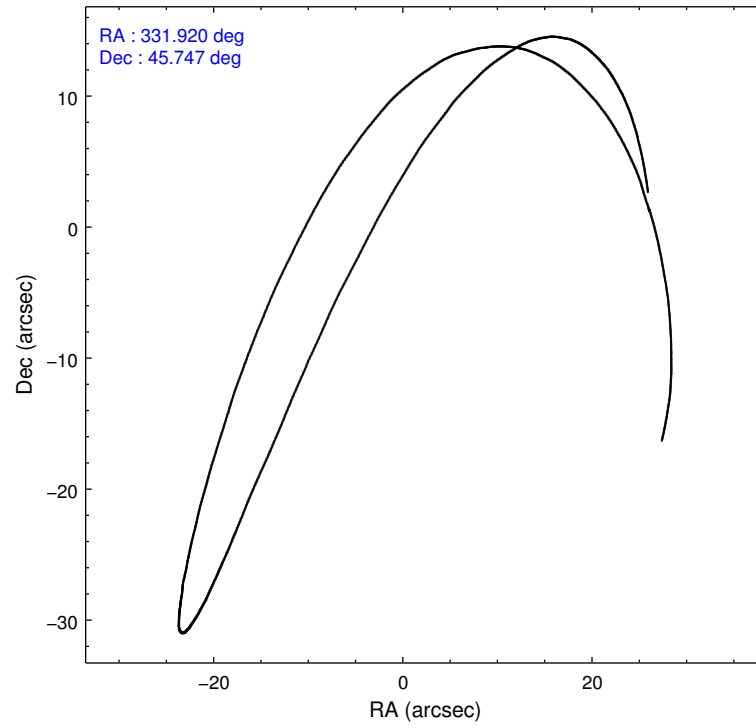
Level 1 Events

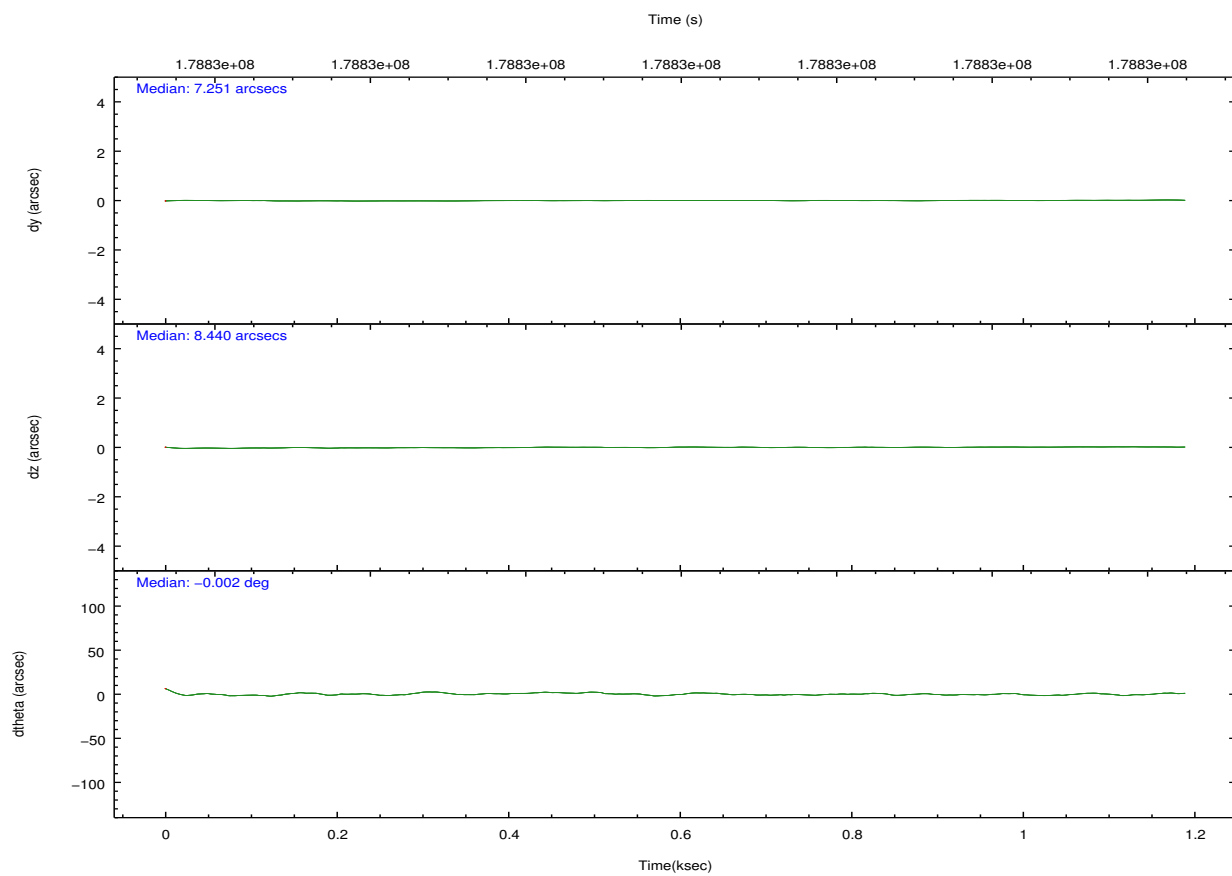
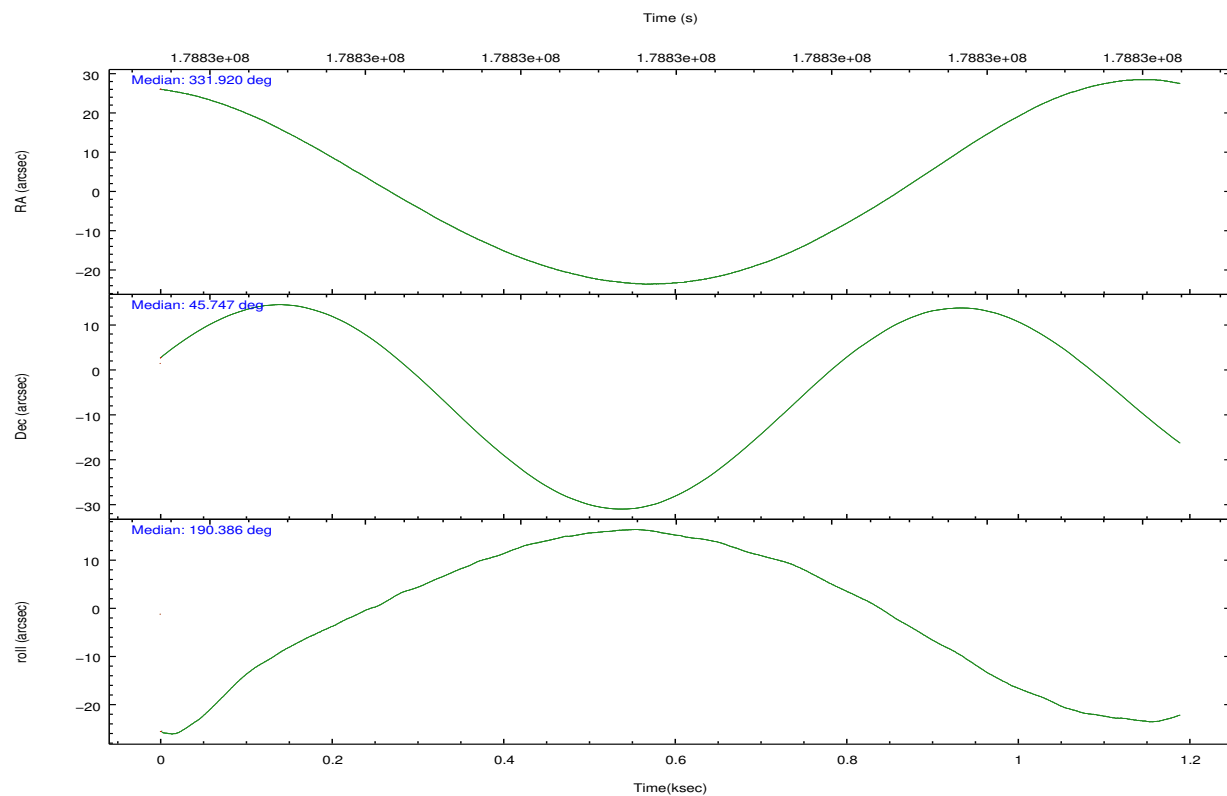
	<b>segment 1</b>	<b>segment 2</b>	<b>segment 3</b>
level 1 events	1045	66404	1022
rejected events	1045	15071	1022
rejected %	100%	22%	100%

## 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	331.949731	331.9202626084998			
[deg] Pointing Dec	45.764380	45.7457654430234			
[deg] Pointing Roll	190.302011	190.3904114457428			
[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)	178826588.184000	178826212.47075			
Observation start date	2003-09-01T18:02:04	2003-09-01T17:56:52			
[s] Observation end time (MET)	178827588.184000	178827722.29582			
Observation end date	2003-09-01T18:18:44	2003-09-01T18:22:02			

## 2.3 Aspect





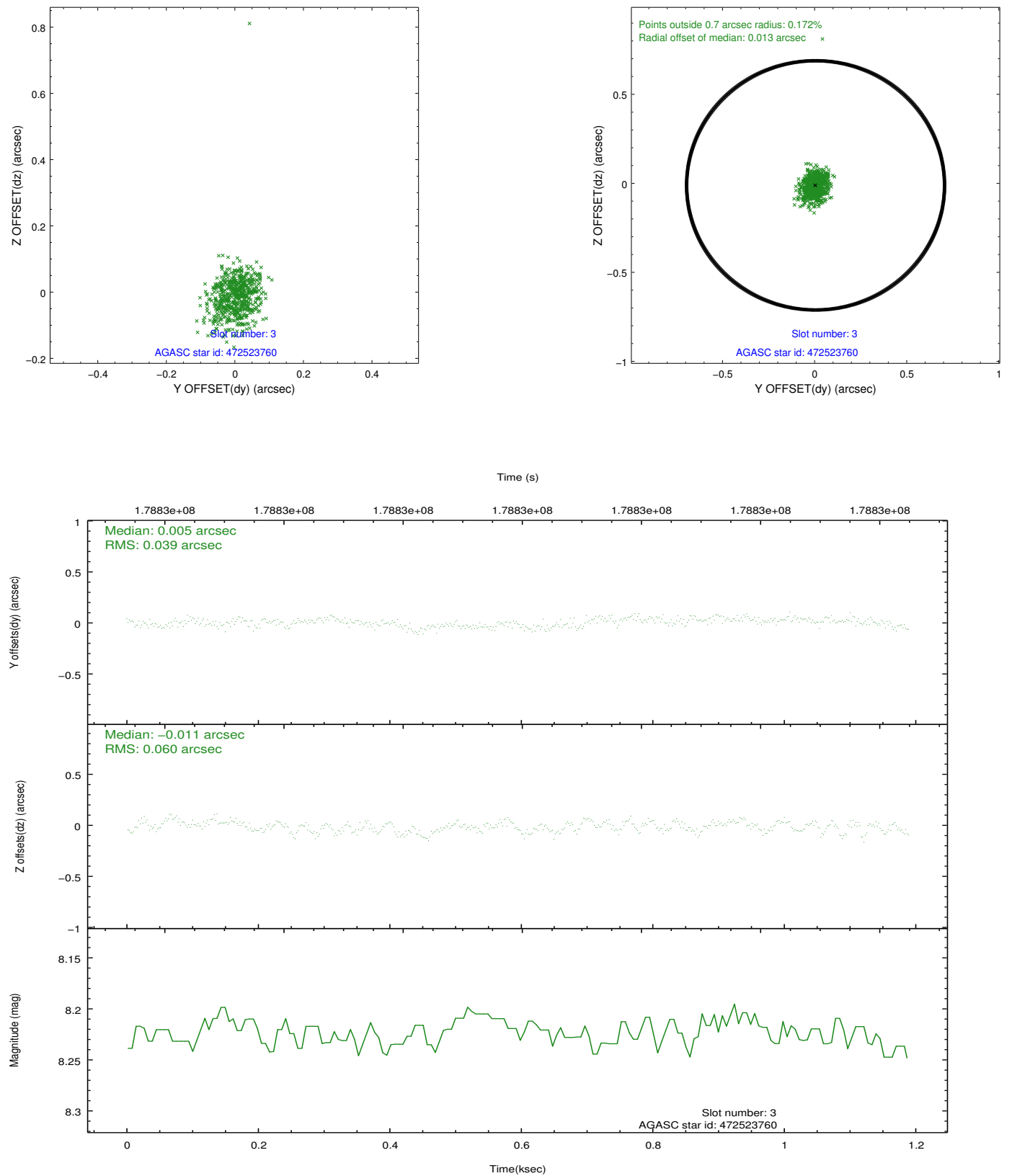
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-S-1	7.02	291	0.115	-0.135	0.006	0.012	0.000000	0.000000	-1161.44	-457.02
1	FID	HRC-S-3	7.03	291	0.063	-0.069	0.008	0.013	0.000000	0.000000	-1168.17	571.01
2	FID	HRC-S-4	6.99	291	0.210	-0.094	0.006	0.009	0.000000	0.000000	1232.93	577.00
3	GUIDE	472523760	8.22	581	0.005	-0.011	0.067	0.108	331.645363	45.403260	991.00	1143.63
4	GUIDE	472527720	7.00	581	-0.118	-0.128	0.074	0.117	331.460205	45.112509	1646.02	2088.26
5	GUIDE	472535576	7.85	581	-0.084	0.103	0.064	0.105	331.438373	46.291802	916.07	-2092.37
6	GUIDE	472655152	9.44	581	0.078	0.031	0.090	0.150	332.504239	45.862991	-1428.53	-105.57
7	GUIDE	472659832	9.46	580	0.115	0.004	0.105	0.182	332.780399	46.098139	-2257.41	-818.83

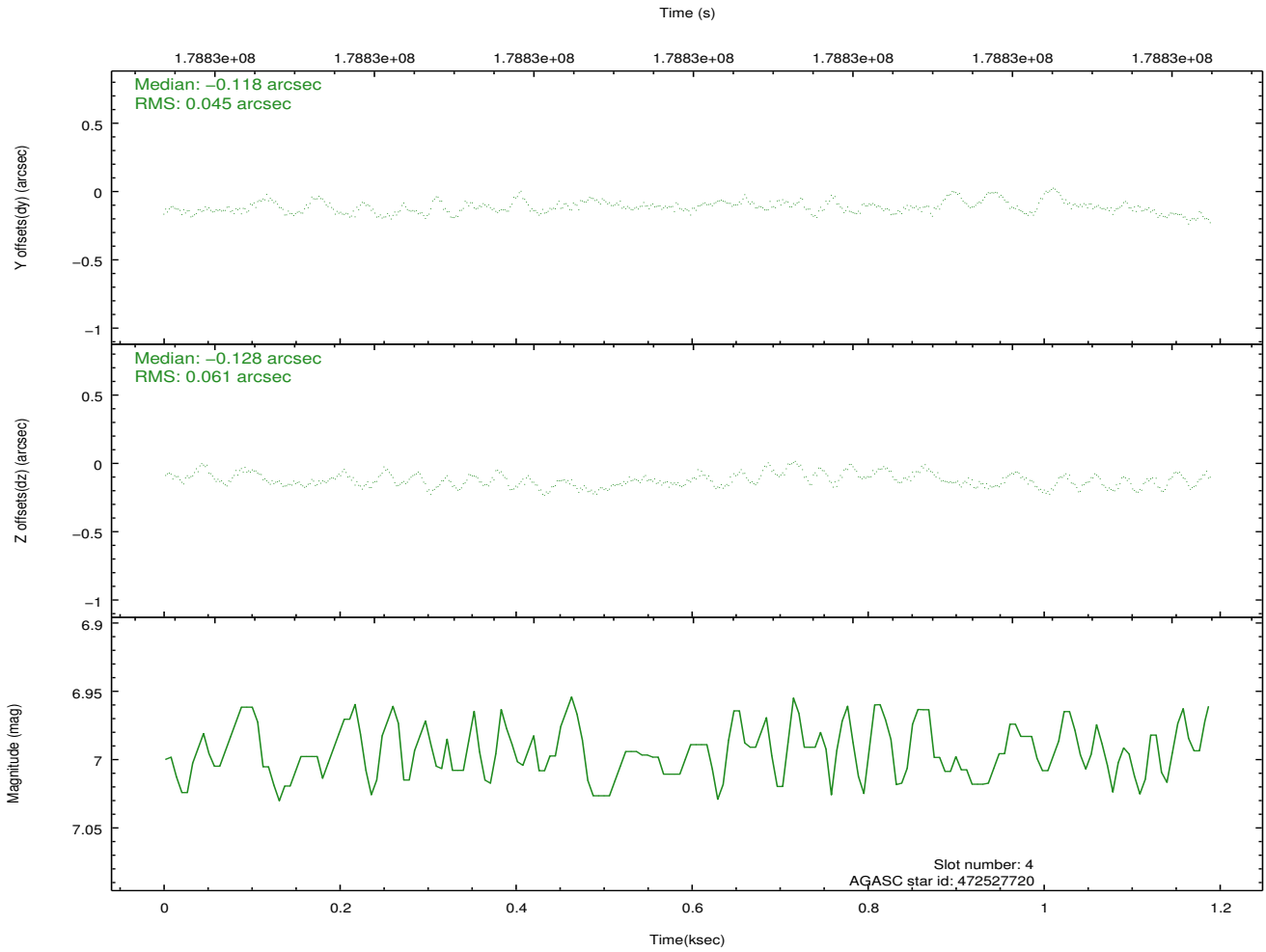
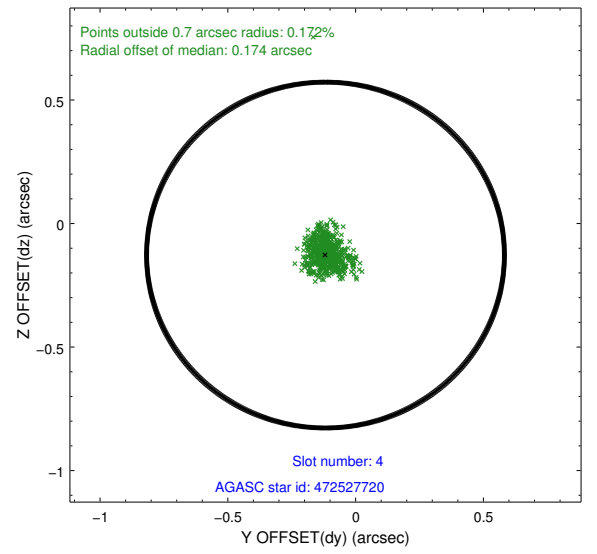
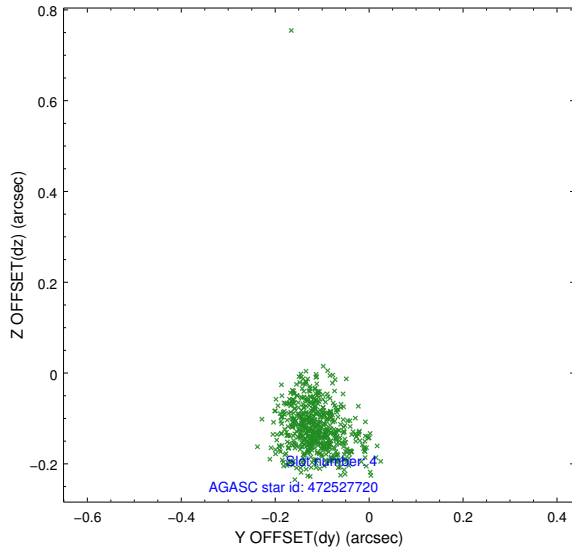


## 2.4 Star Slots

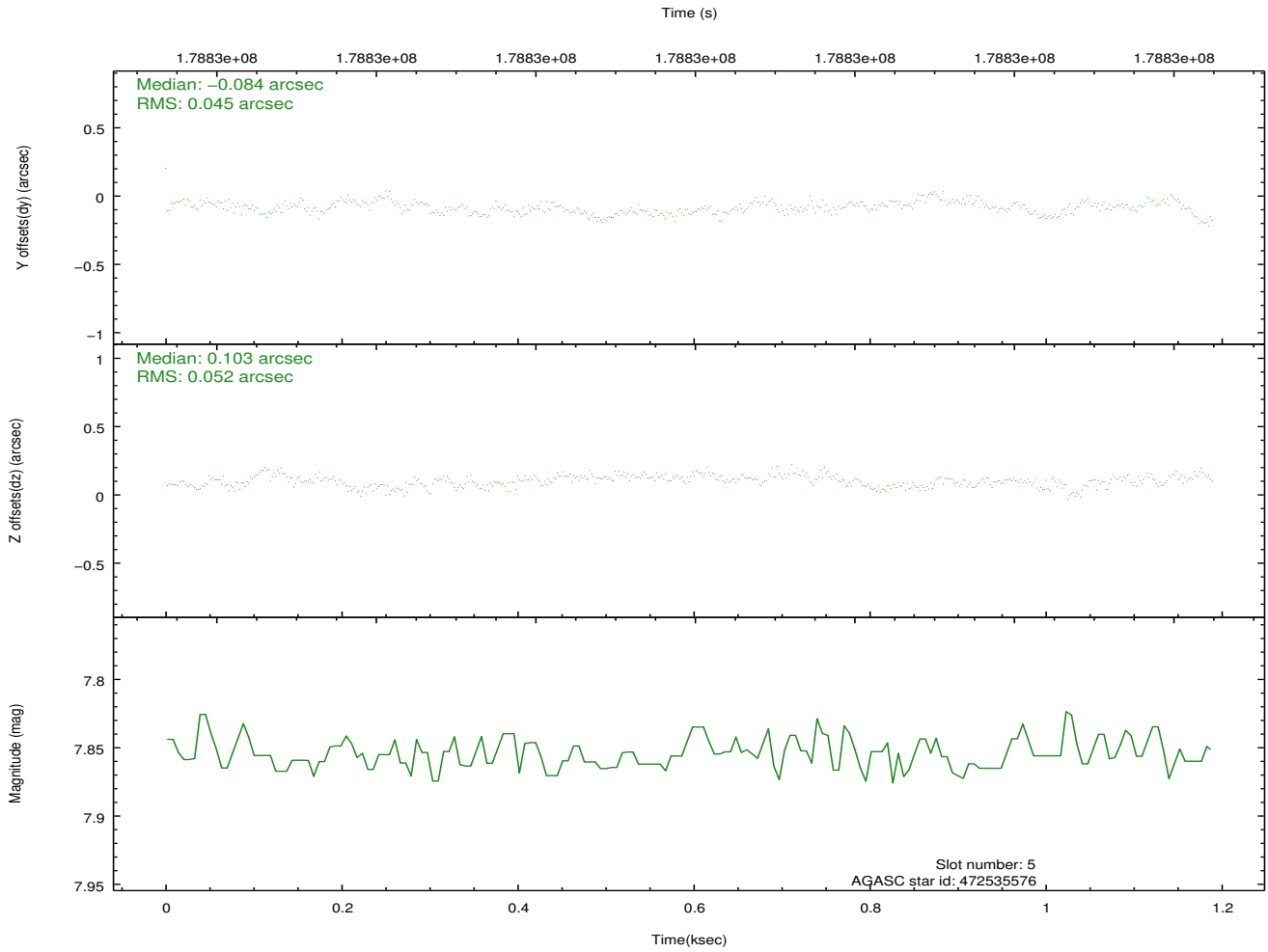
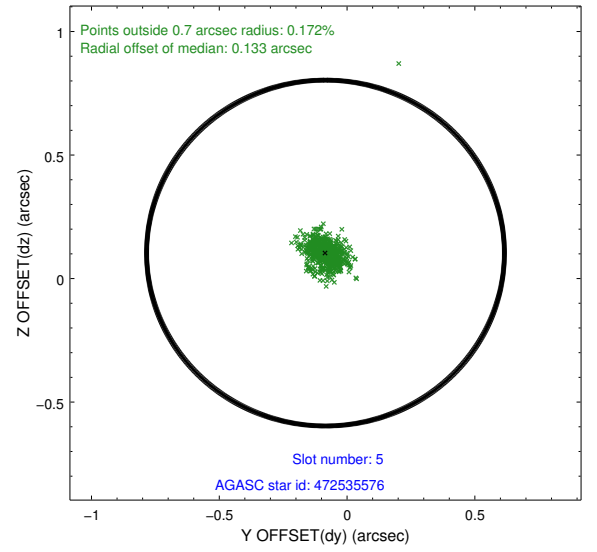
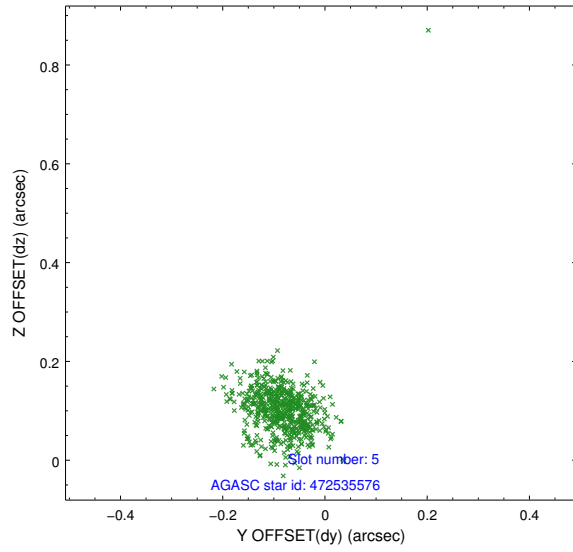
### 2.4.1 Slot 3



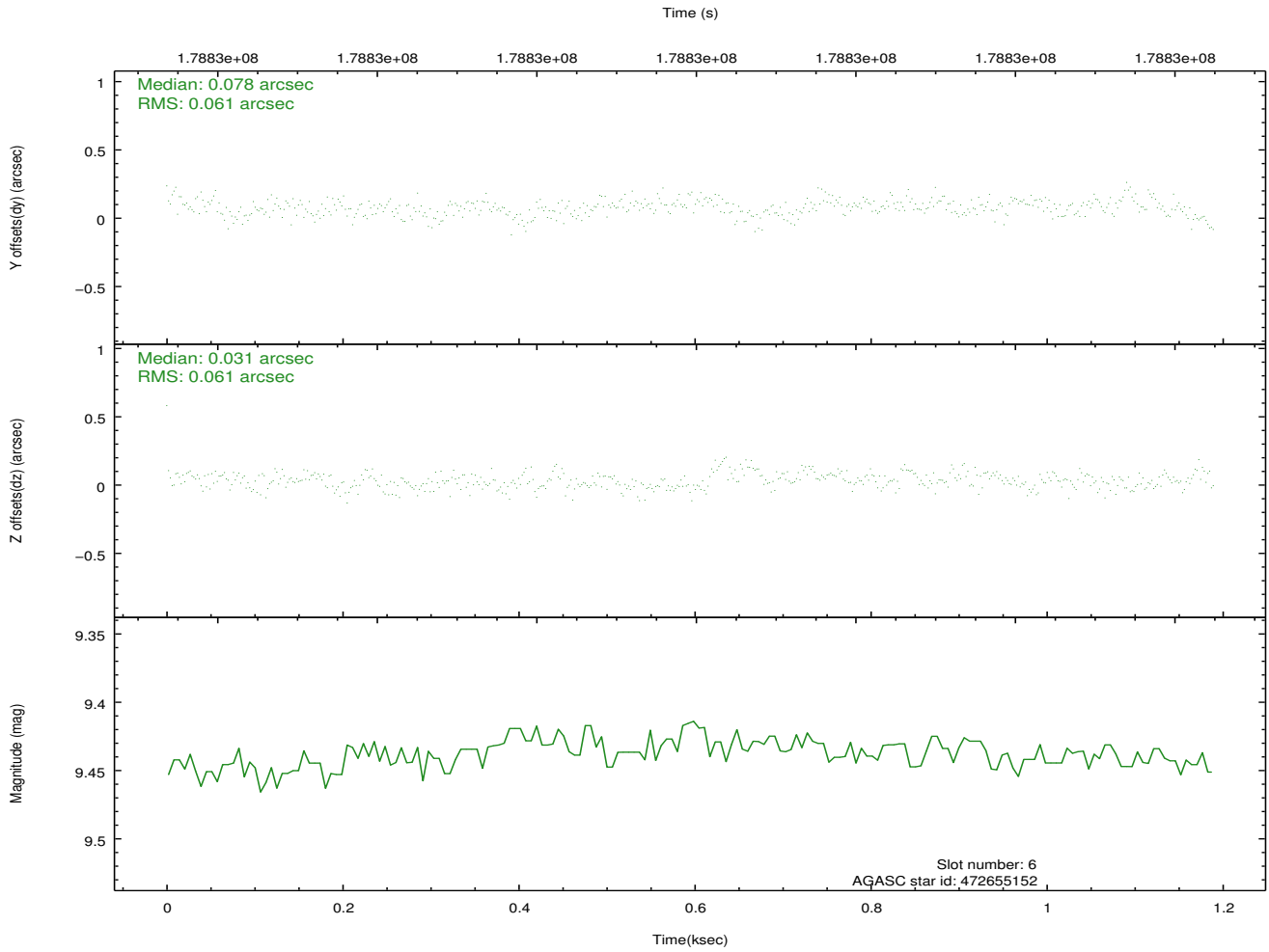
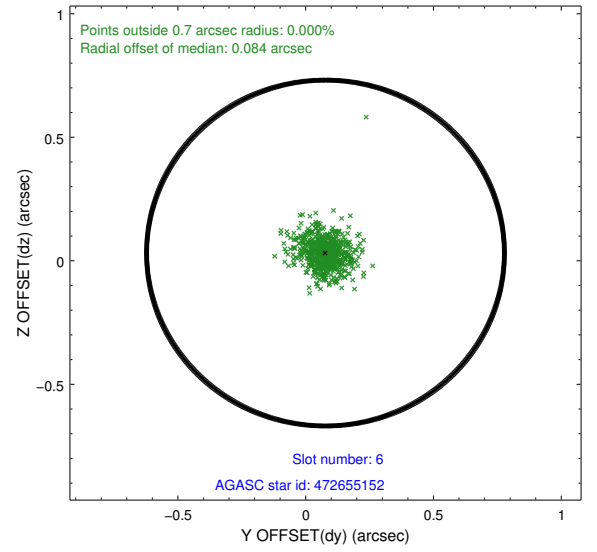
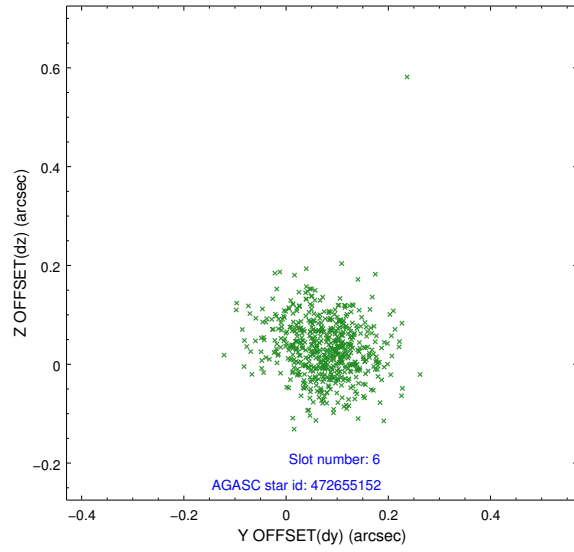
## 2.4.2 Slot 4



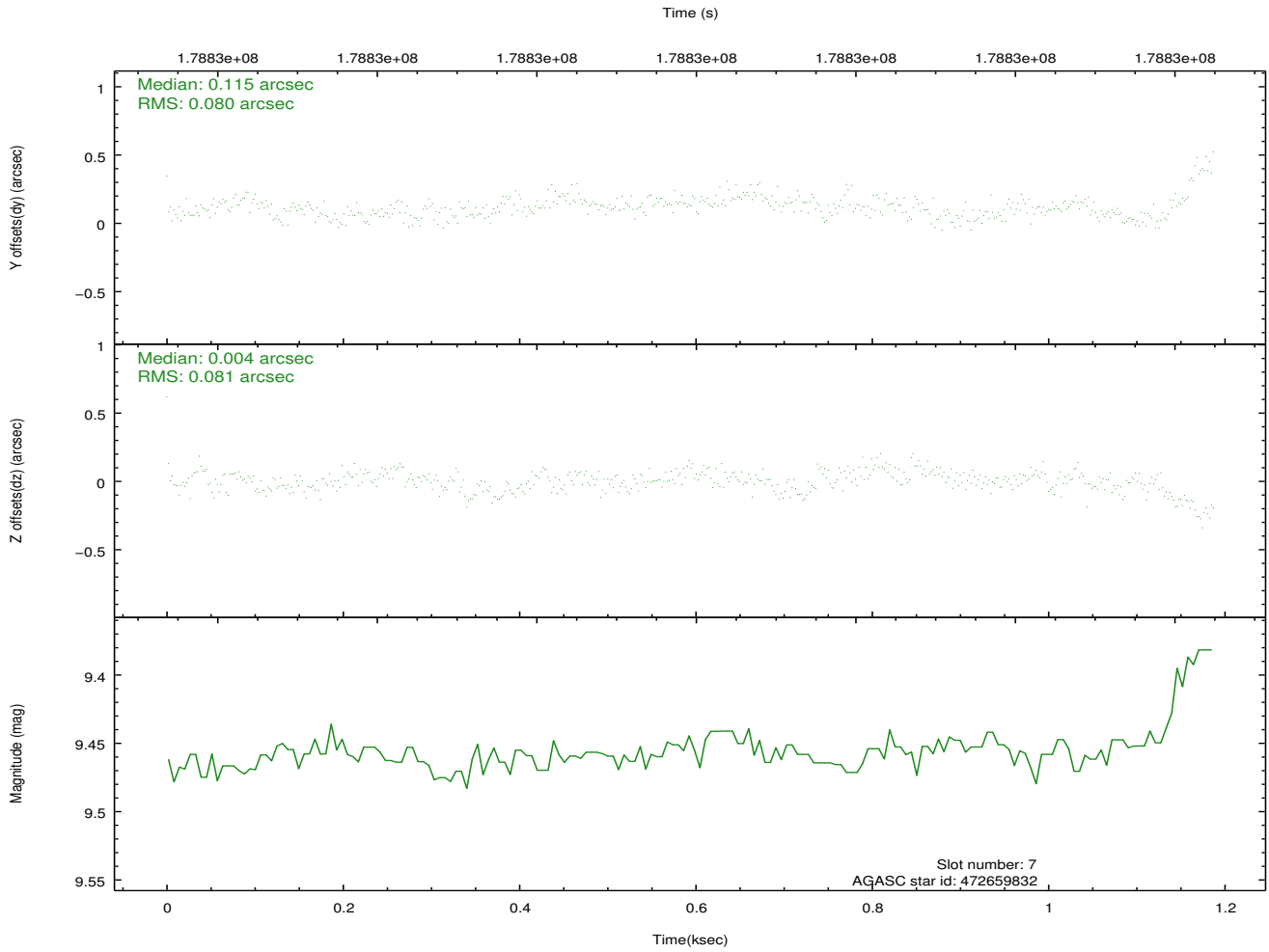
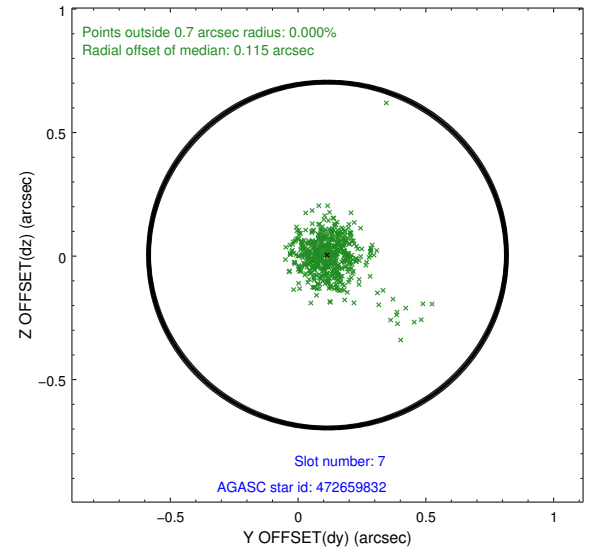
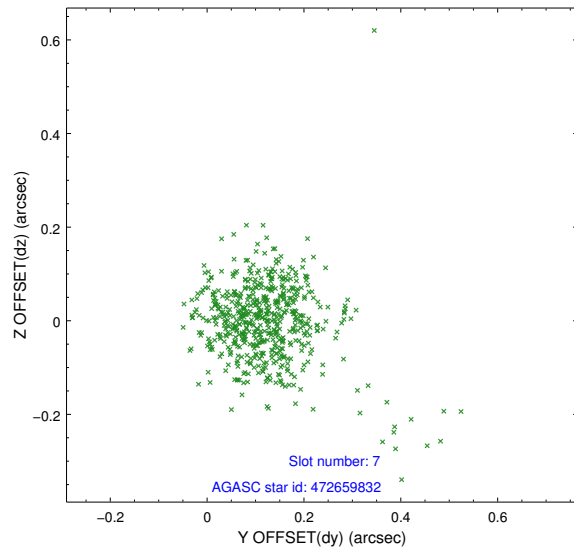
### 2.4.3 Slot 5



## 2.4.4 Slot 6

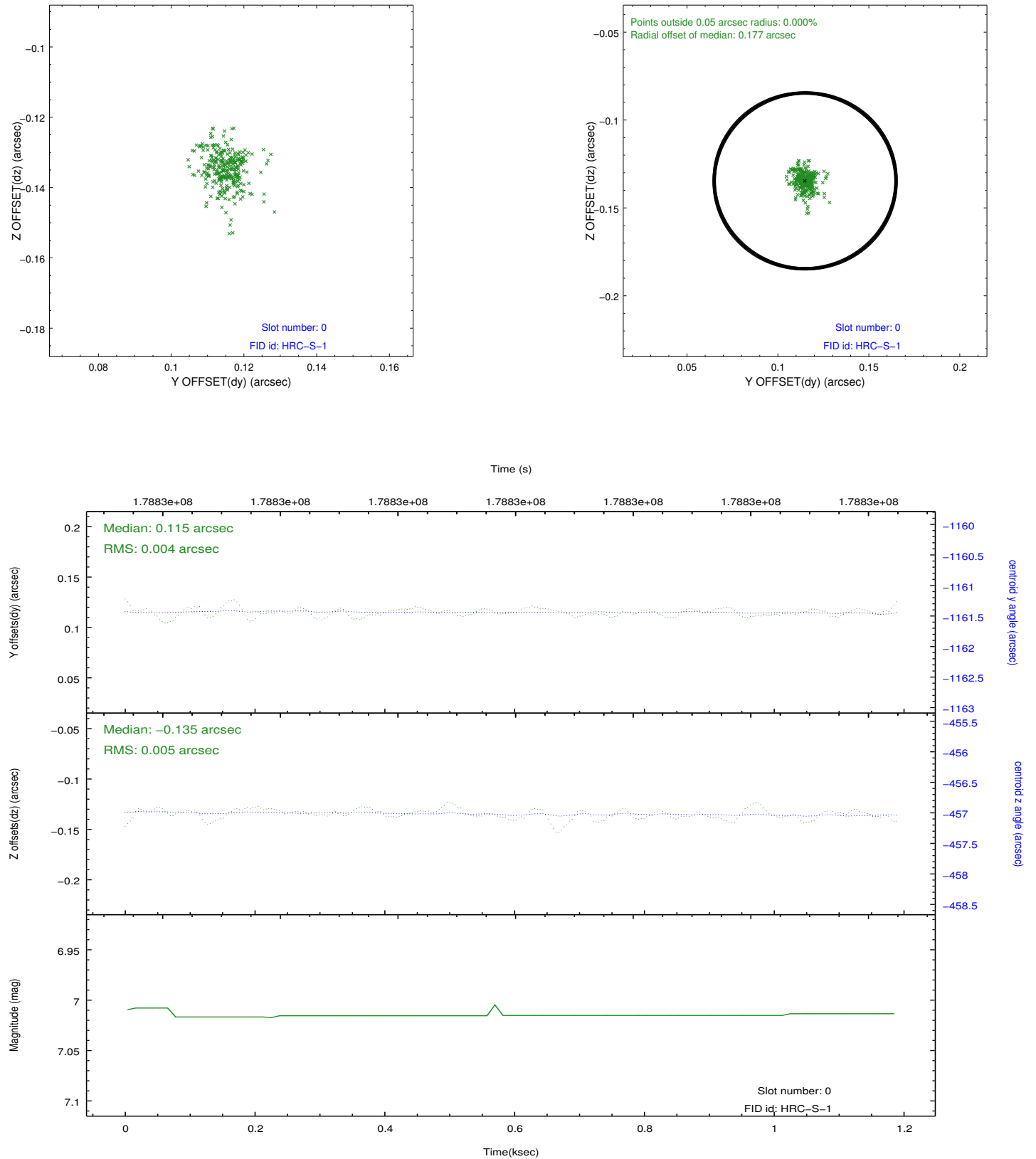


## 2.4.5 Slot 7

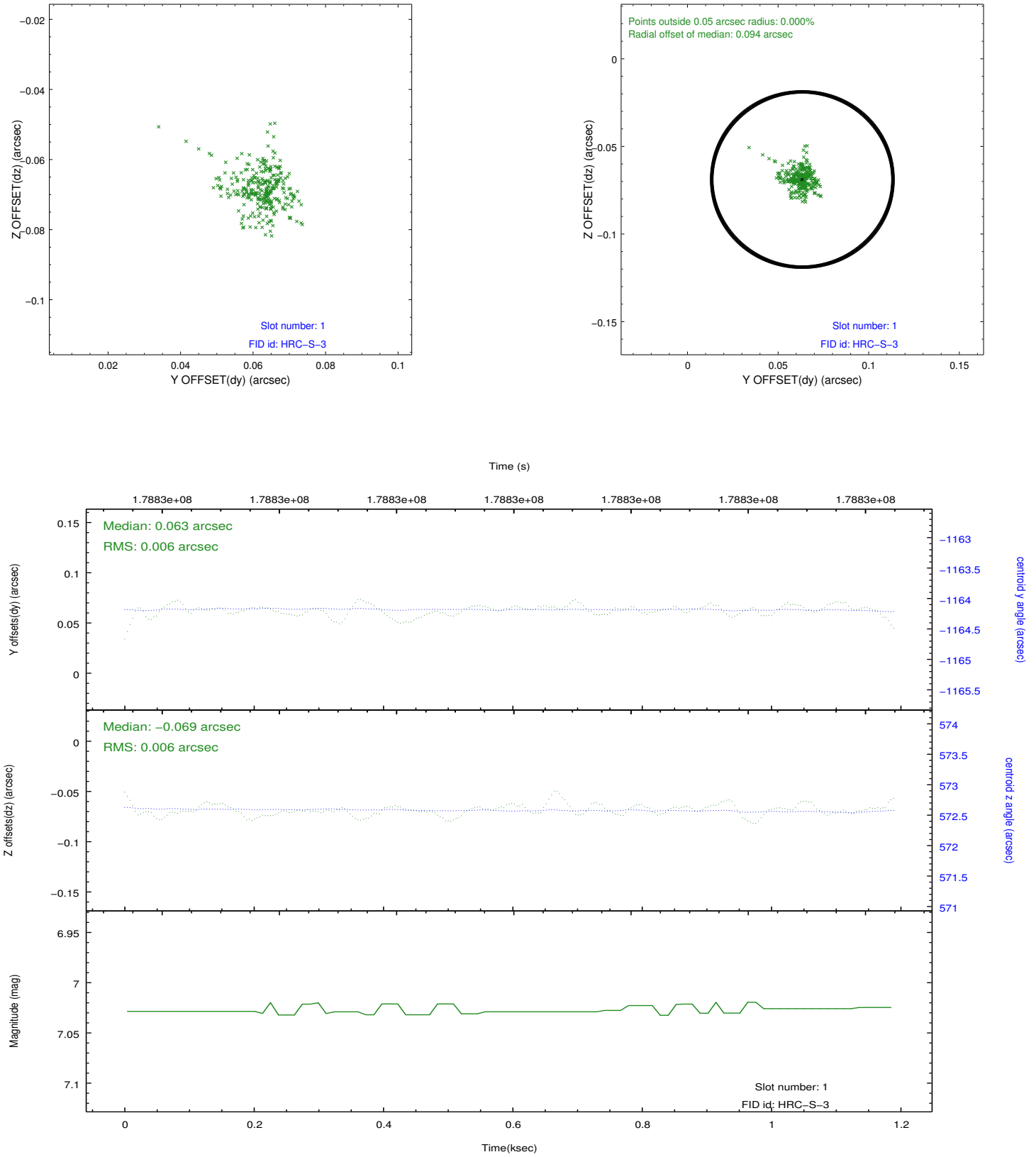


## 2.5 FID Slots

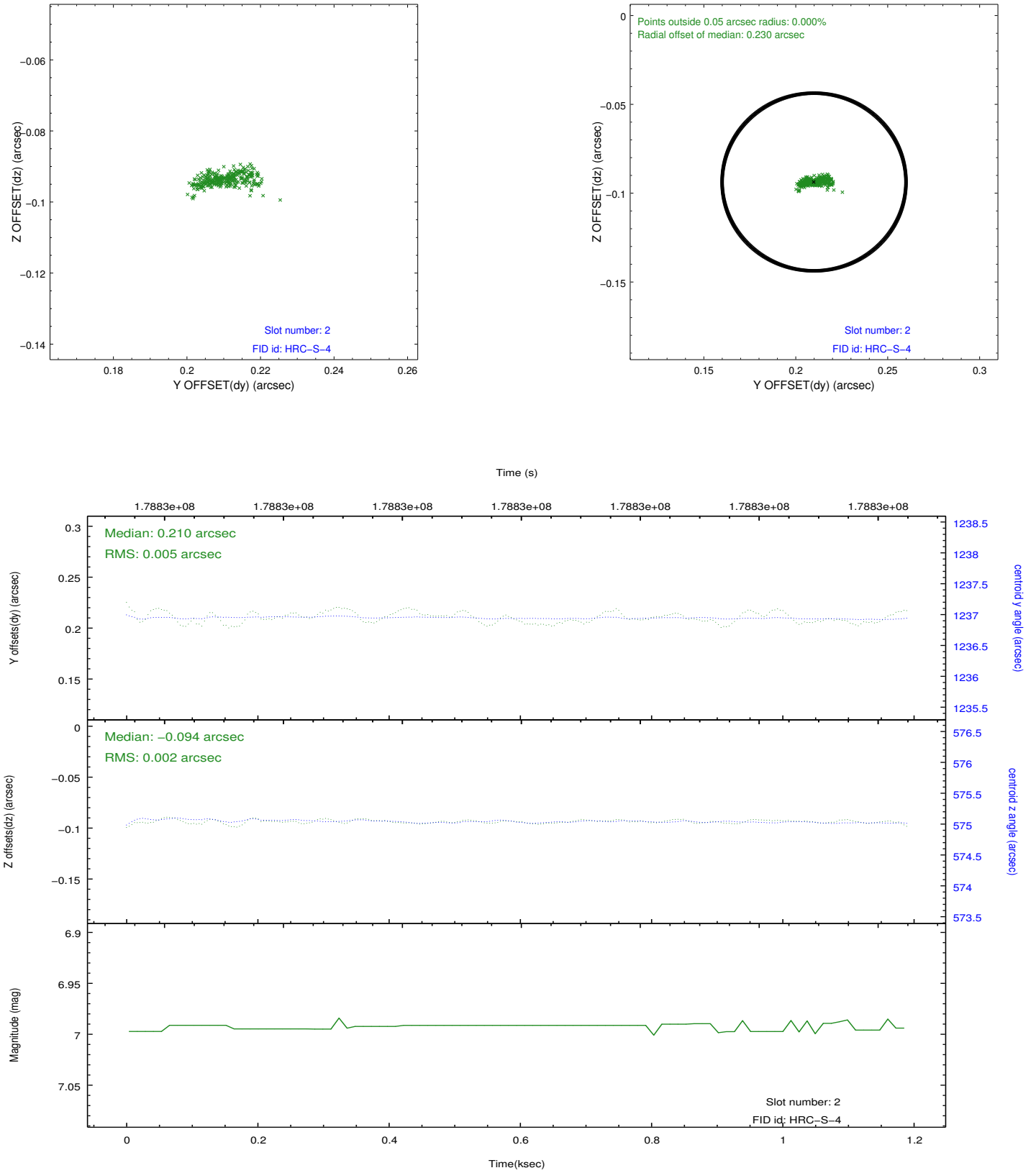
### 2.5.1 Slot 0



## 2.5.2 Slot 1



## 2.5.3 Slot 2





## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.11.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.143

### A.2 Comments