

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 5090 - L2 Version 3  
Chandra X-Ray Center

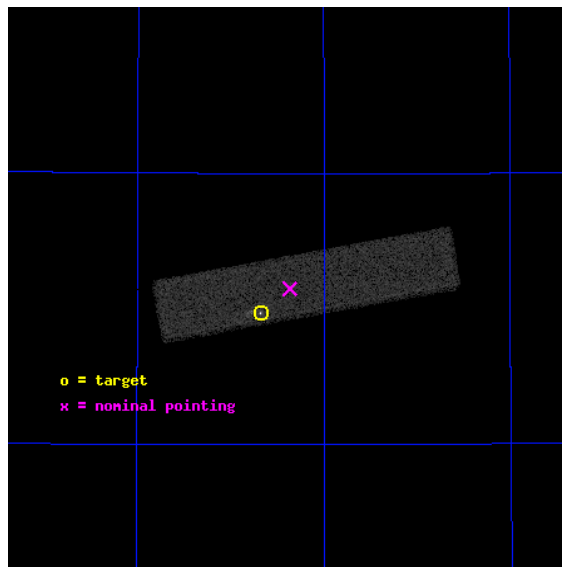
L2 Processing Date : Nov 11 2012

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# 1 Front

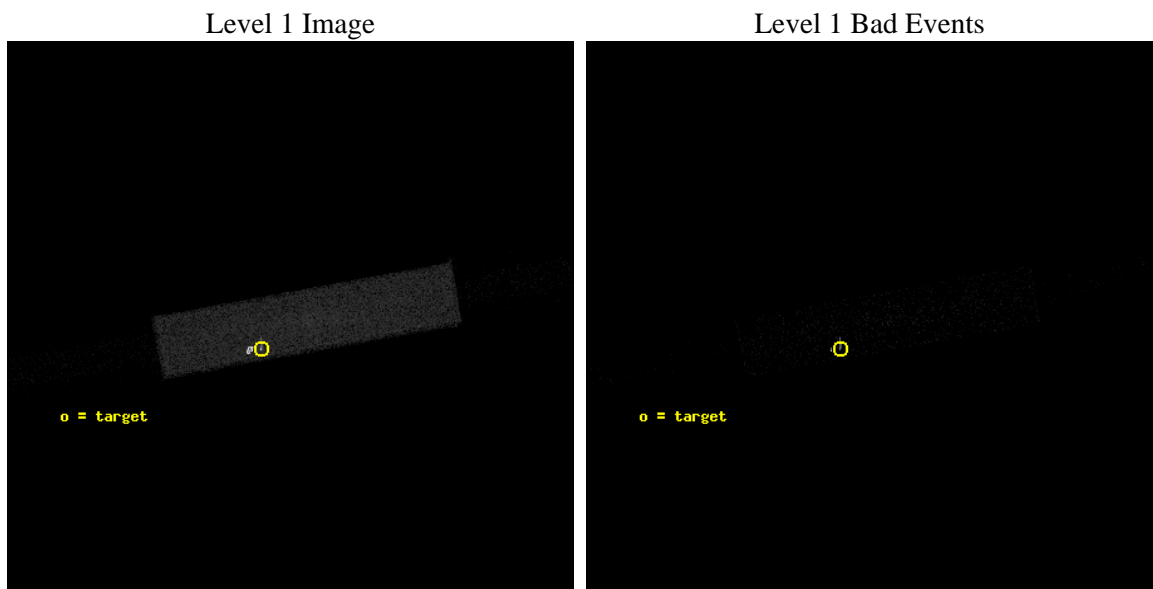
seq_num	290363	Sequence number
obs_id	5090	Observation id
title	AO5A Calibration Observations to Monitor the Spatial Variations in the HRC-S Gain	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.09134894652	Nominal RA [deg]
dec_nom	45.787370641225	Nominal Dec [deg]
roll_nom	349.66234283943	Nominal Roll [deg]
revision	3	Processing version of data
ontime	1088.8062976301	[s]
livetime	1076.9964225848	Ontime multiplied by DTCOR
l2events	39742	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	946.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	1088.8062976301	[s]
caldsver	4.5.2	&#160	l1events	123767	Number of level 1 events
date	2012-11-11T14:43:46	Date and time of file creation			
revision	3	Processing version of data			

### 2.1.3 Events

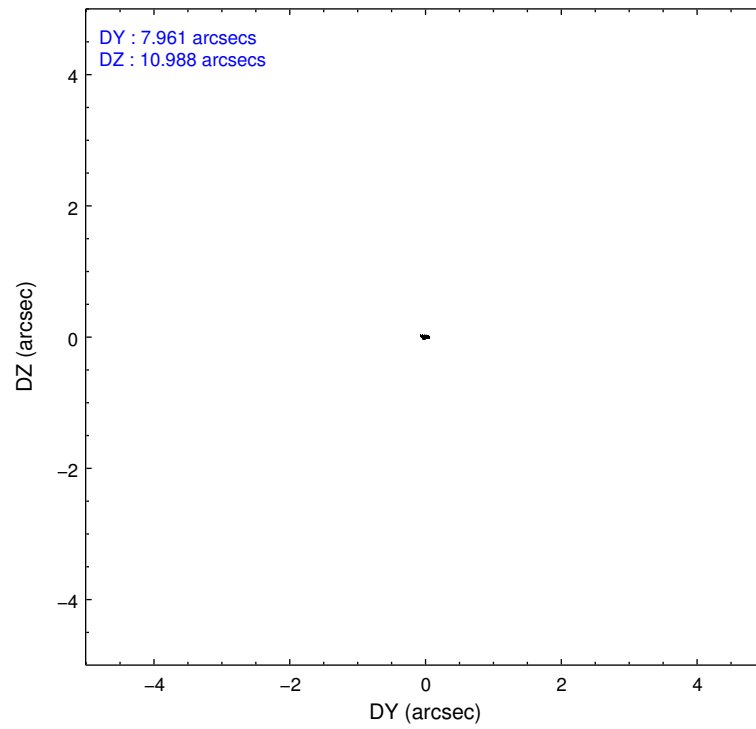
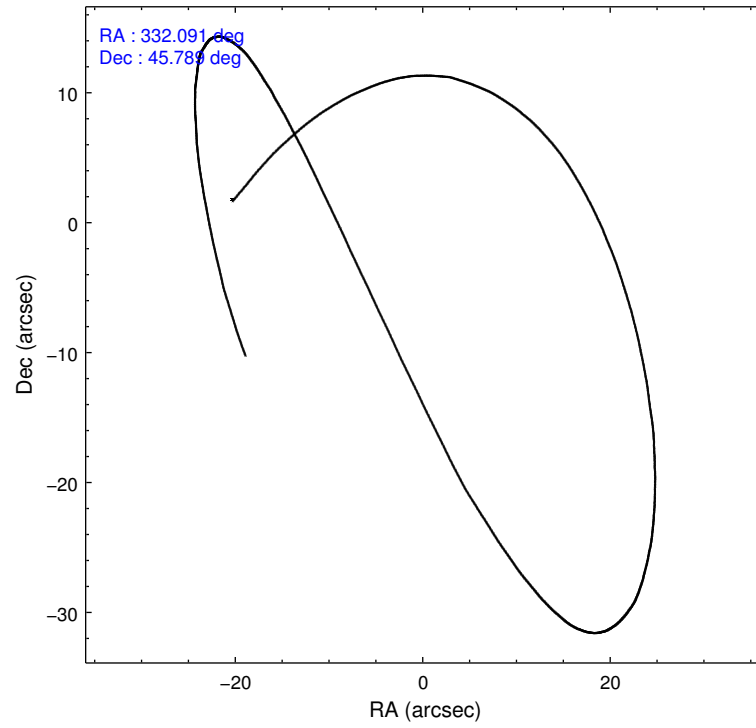
Level 1 Events

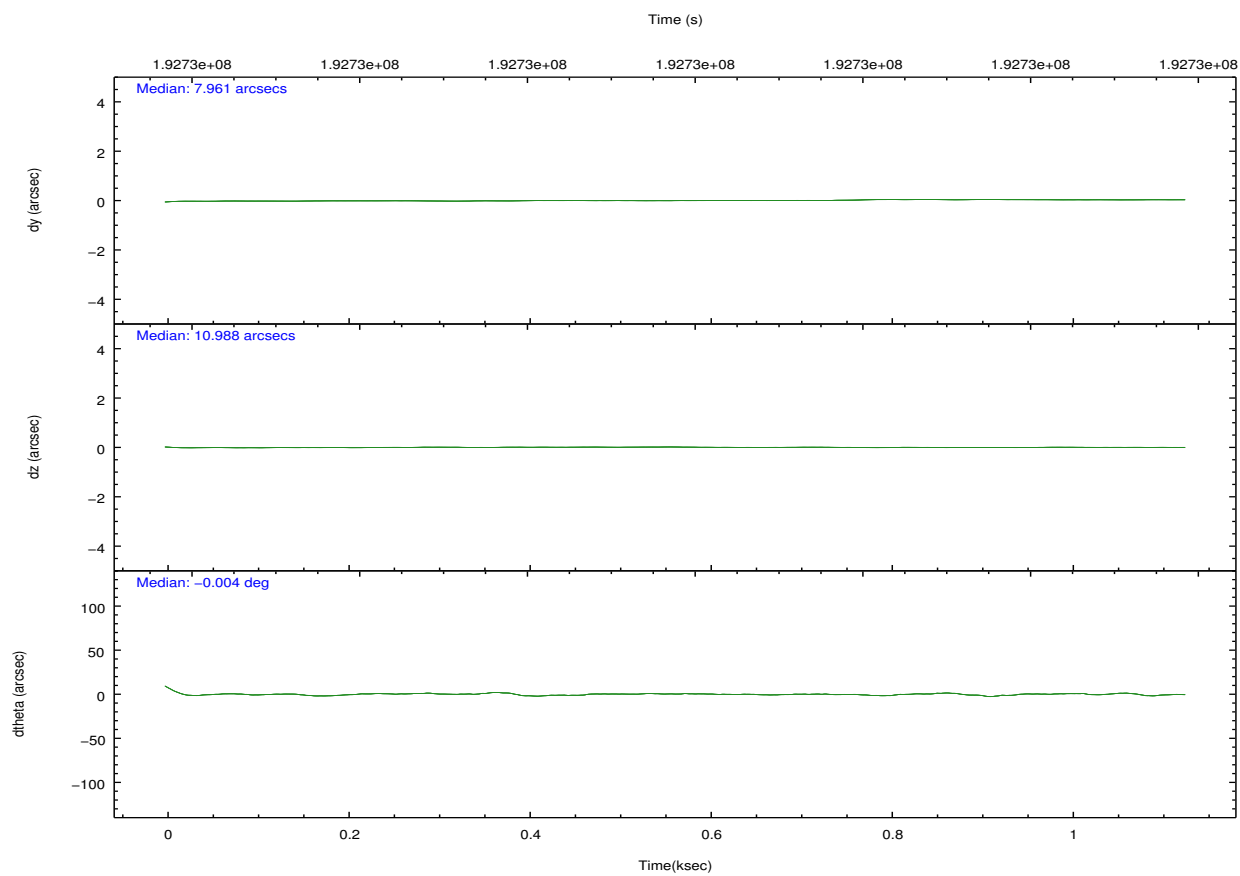
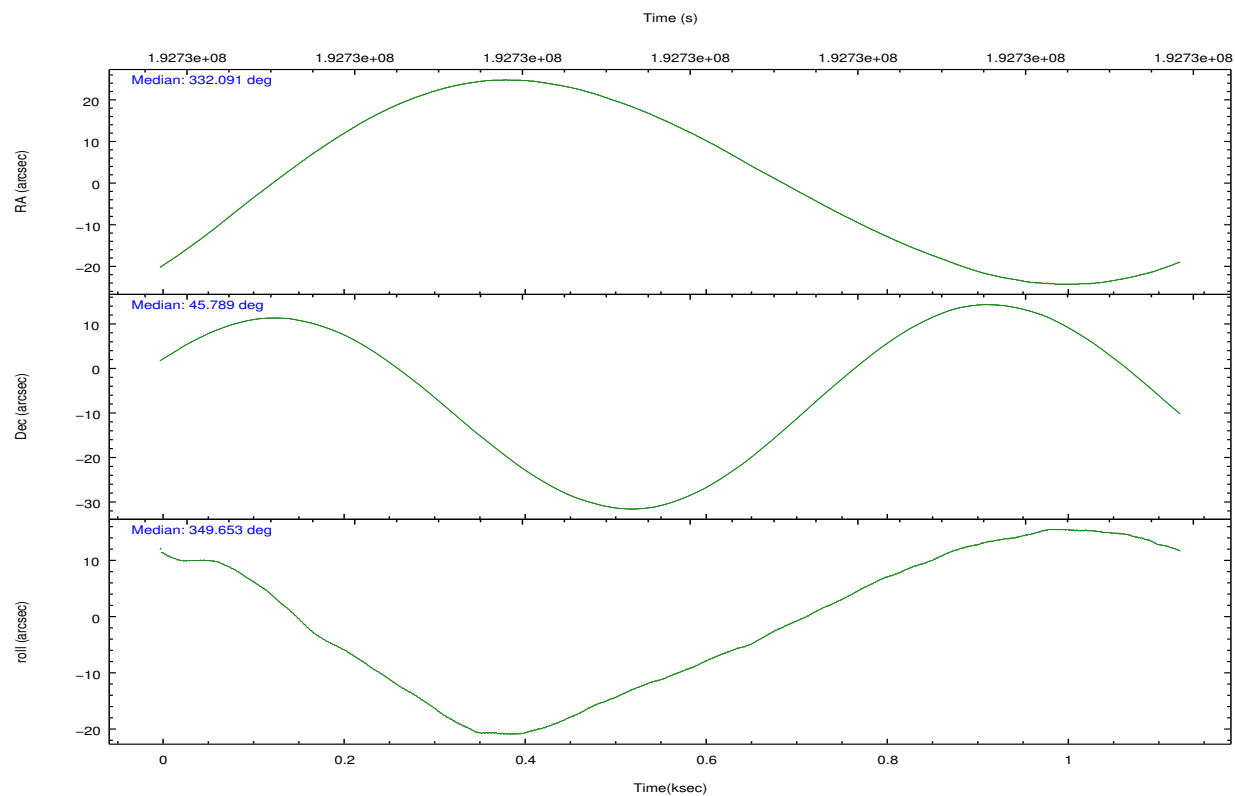
	segment 1	segment 2	segment 3
level 1 events	1144	121557	1066
rejected events	1144	30418	1066
rejected %	100%	25%	100%

## 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	332.053353	332.0913489465171			
[deg] Pointing Dec	45.775243	45.78737064122454			
[deg] Pointing Roll	349.622317	349.662342839426			
[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)	192732993.184000	192732616.64757			
Observation start date	2004-02-09T16:55:29	2004-02-09T16:50:16			
[s] Observation end time (MET)	192733939.184000	192734073.17264			
Observation end date	2004-02-09T17:11:15	2004-02-09T17:14:33			

## 2.3 Aspect





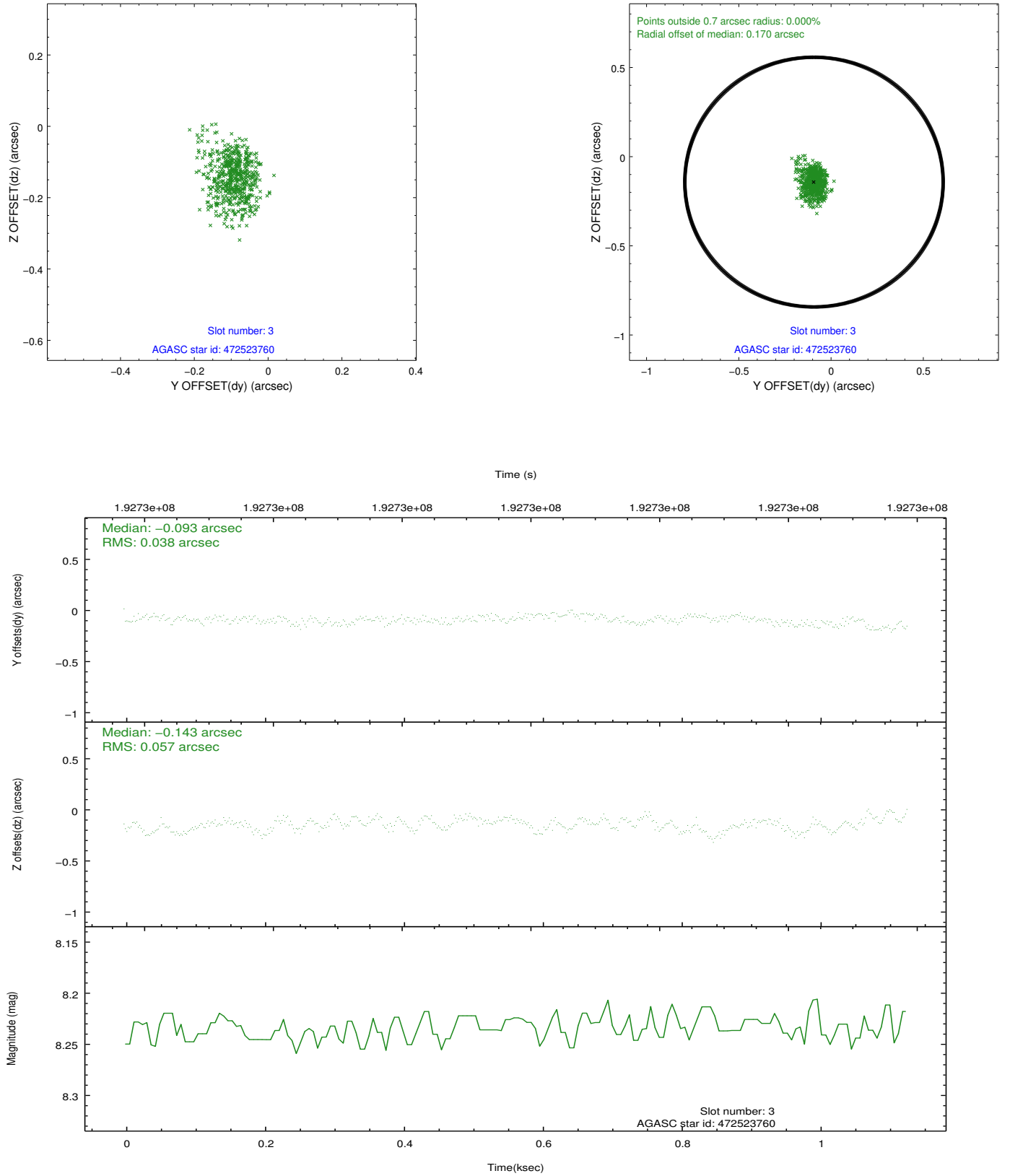
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-S-1	7.03	276	0.110	-0.131	0.004	0.009	0.000000	0.000000	-1162.14	-459.70
1	FID	HRC-S-2	7.02	275	0.092	-0.147	0.009	0.016	0.000000	0.000000	1233.29	-453.98
2	FID	HRC-S-4	7.00	275	0.201	-0.026	0.009	0.014	0.000000	0.000000	1240.67	570.89
3	GUIDE	472523760	8.23	551	-0.093	-0.143	0.072	0.119	331.645363	45.403260	-772.63	-1504.79
4	GUIDE	472533912	9.16	551	-0.010	0.041	0.095	0.159	331.791136	46.368695	-1026.68	1978.29
5	GUIDE	472659832	9.46	551	0.021	0.106	0.092	0.151	332.780399	46.098139	1573.15	1478.41
6	GUIDE	472654568	9.43	551	-0.024	-0.012	0.112	0.184	332.194449	45.063576	818.53	-2456.41
7	GUIDE	472655152	9.42	549	0.105	0.018	0.098	0.173	332.504239	45.862991	1056.77	509.09

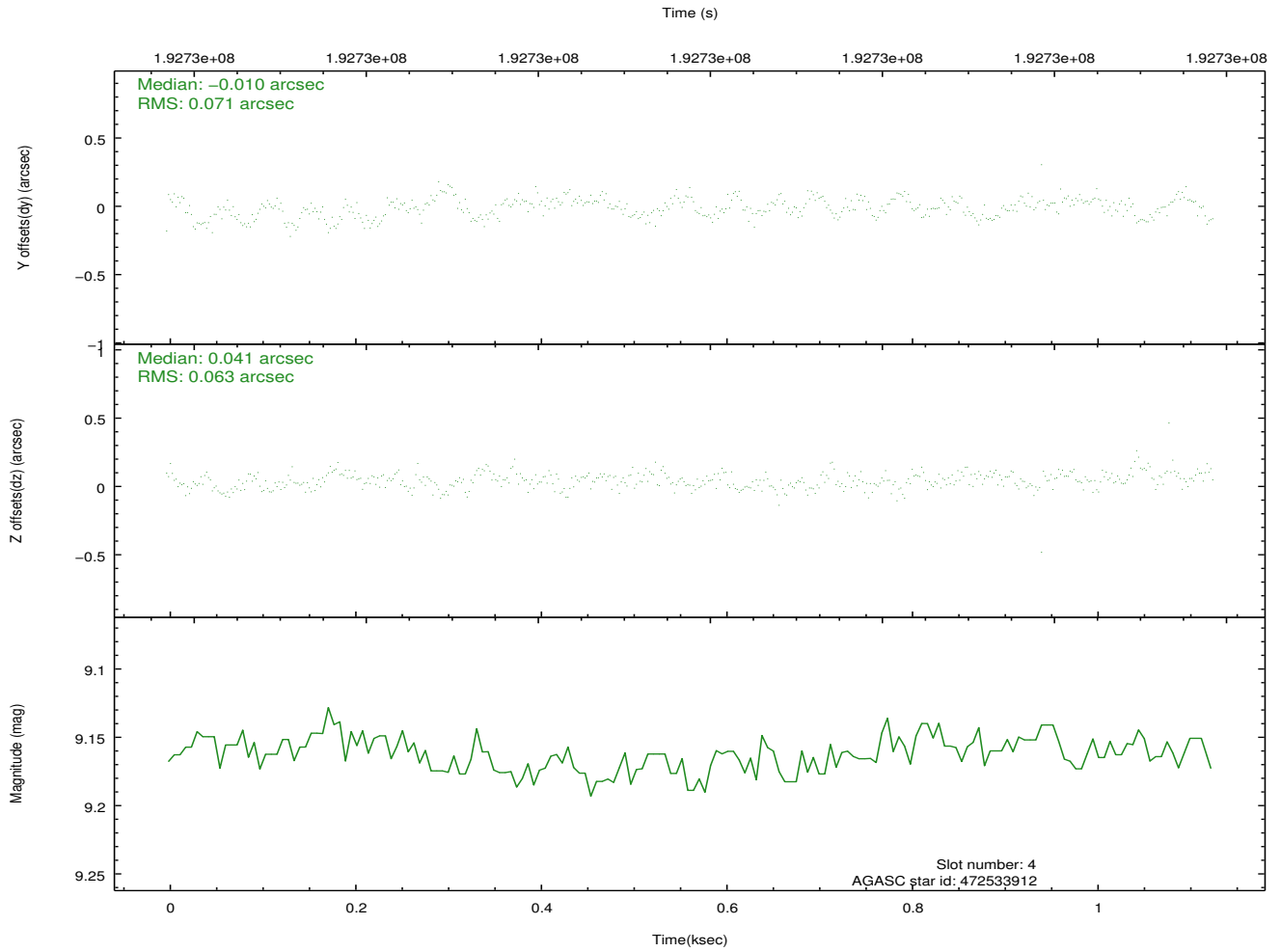
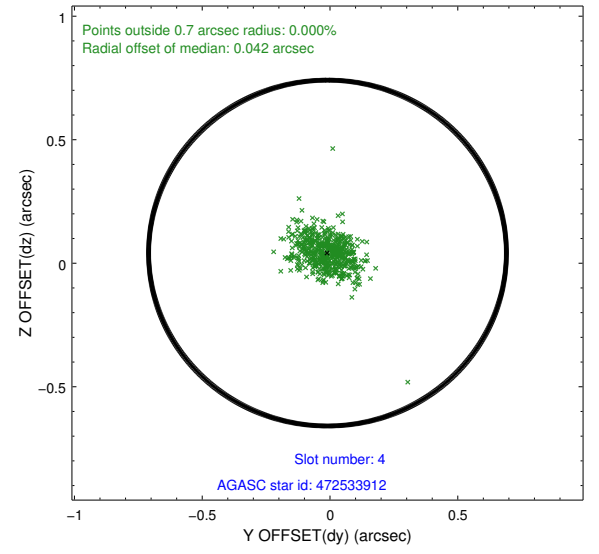
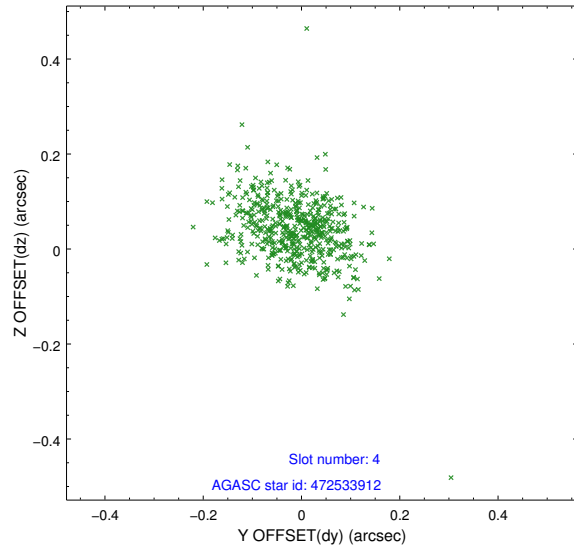


## 2.4 Star Slots

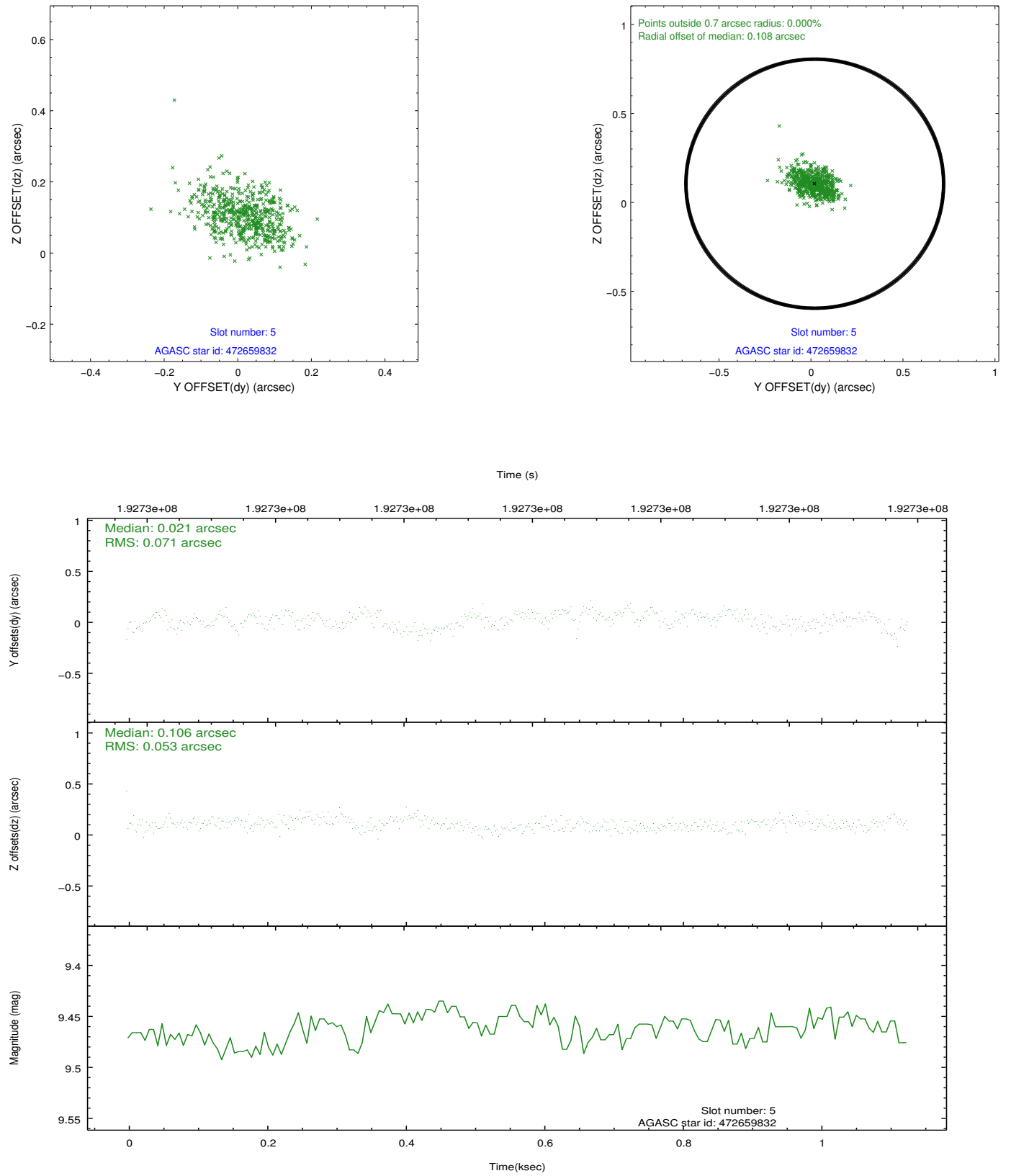
### 2.4.1 Slot 3



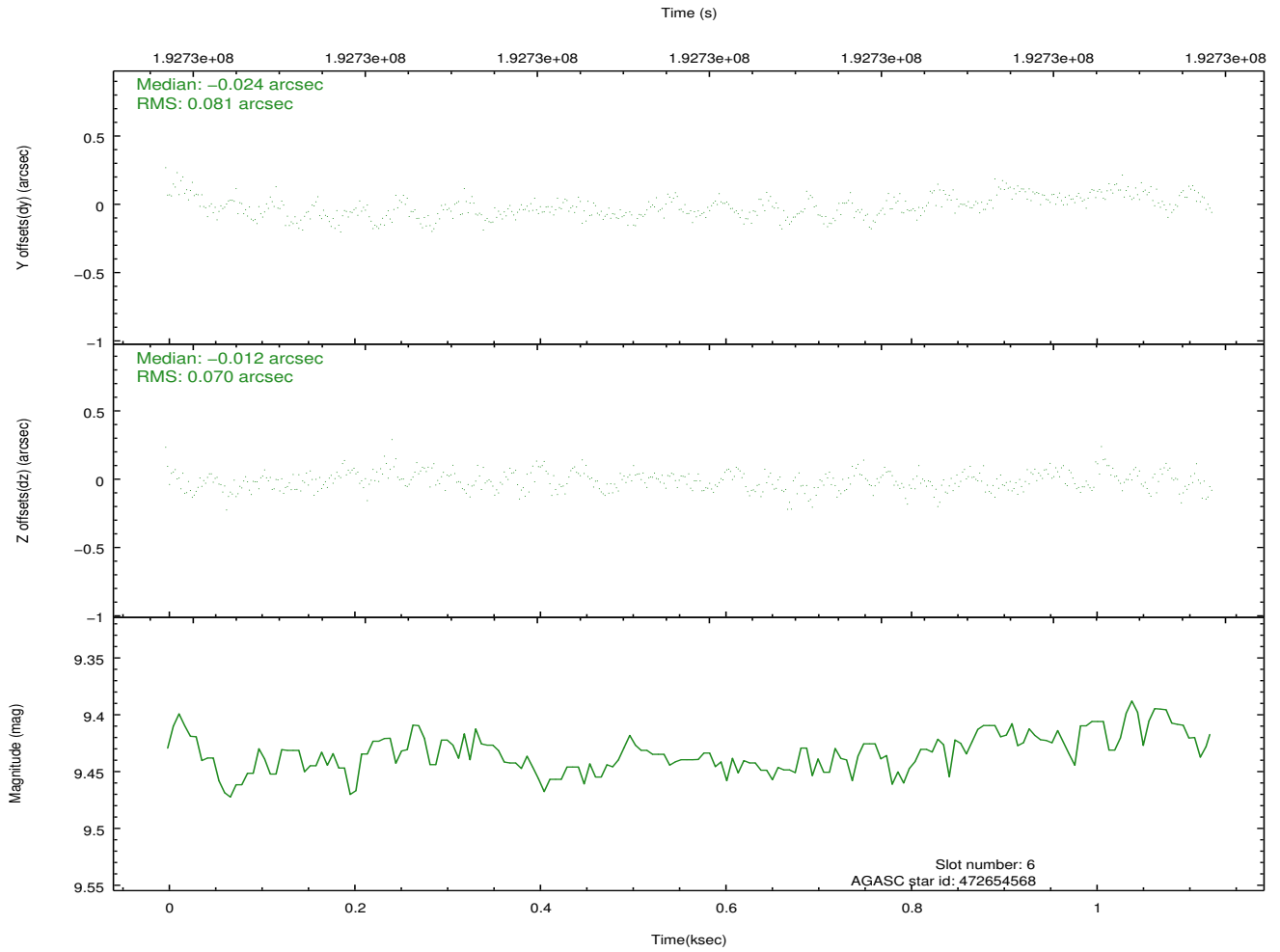
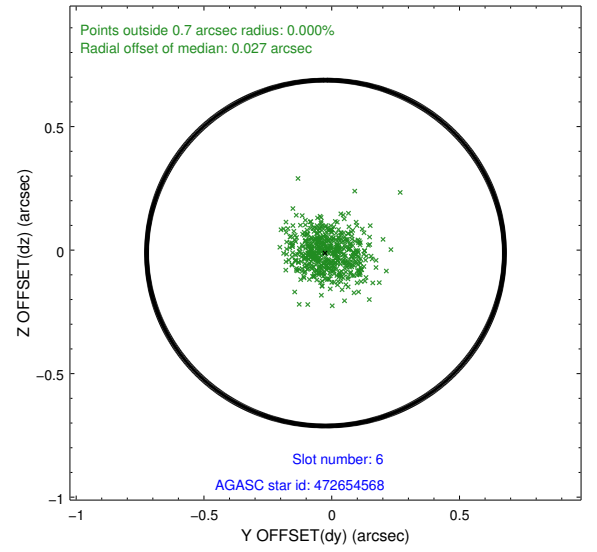
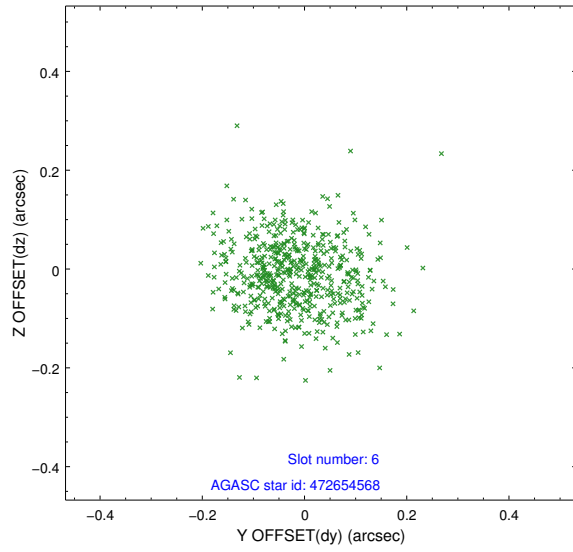
## 2.4.2 Slot 4



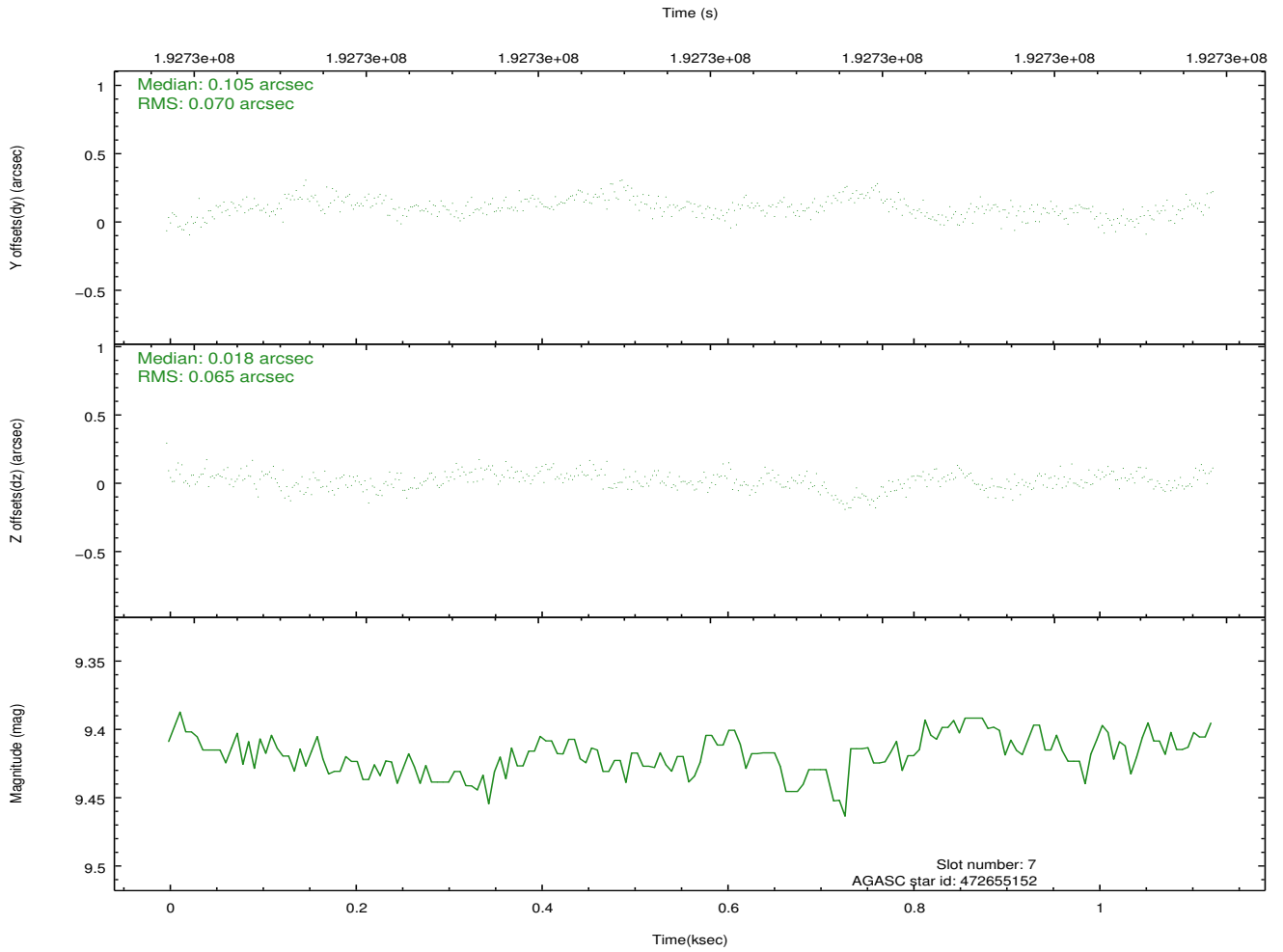
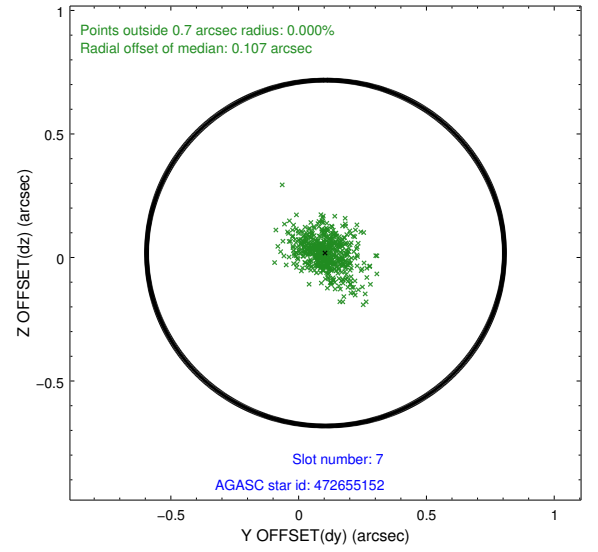
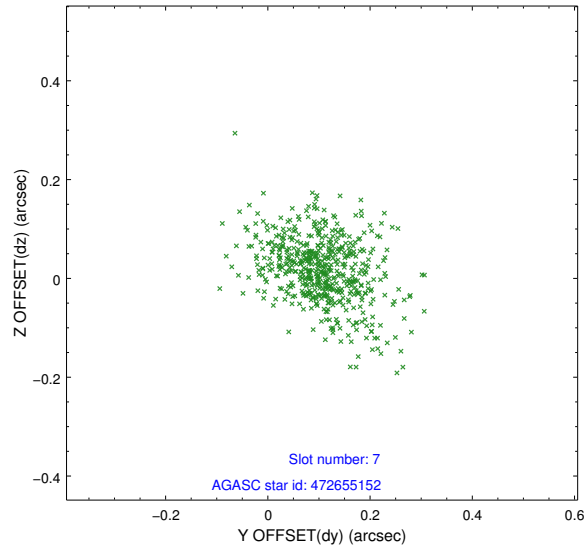
### 2.4.3 Slot 5



## 2.4.4 Slot 6

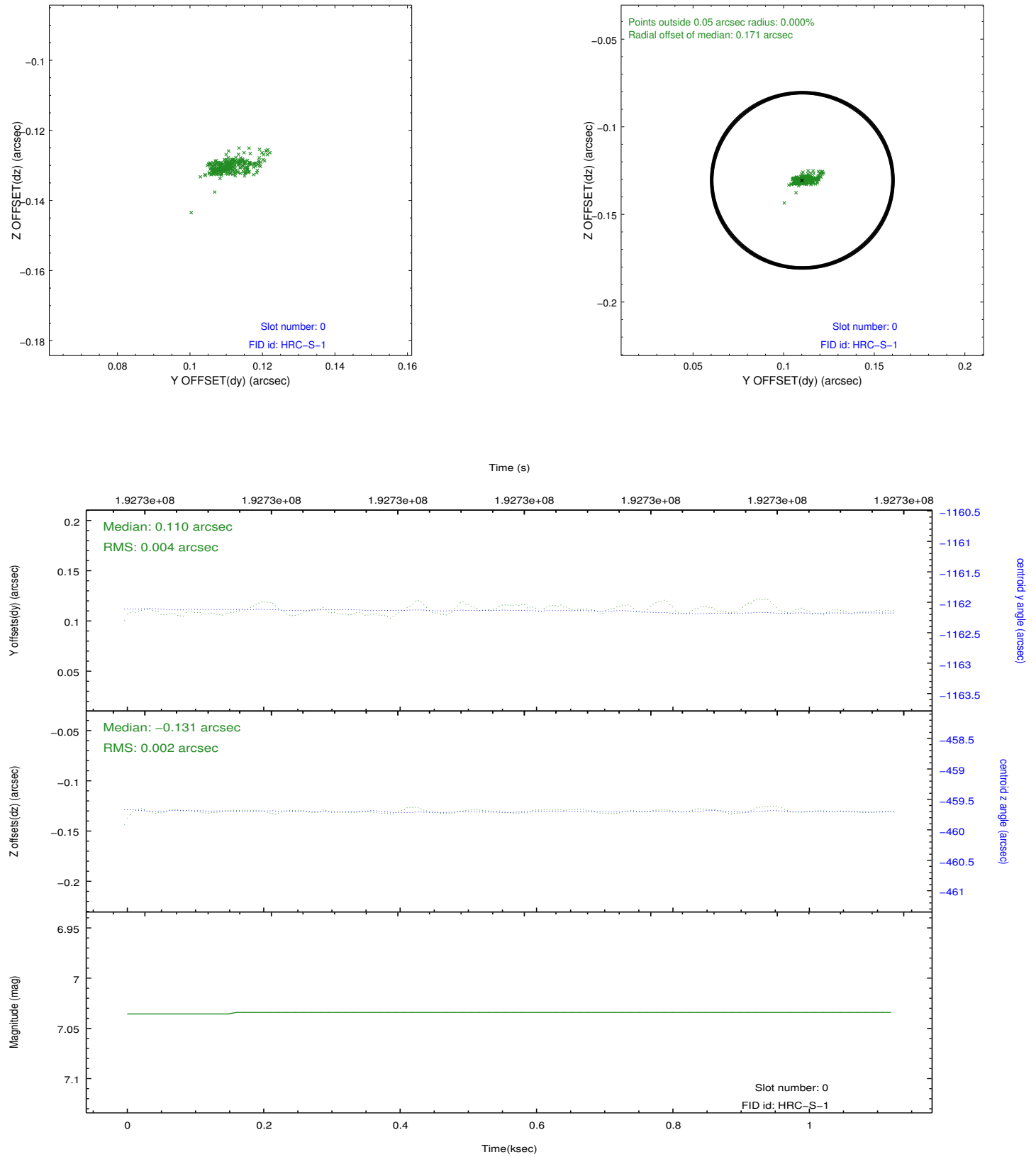


## 2.4.5 Slot 7

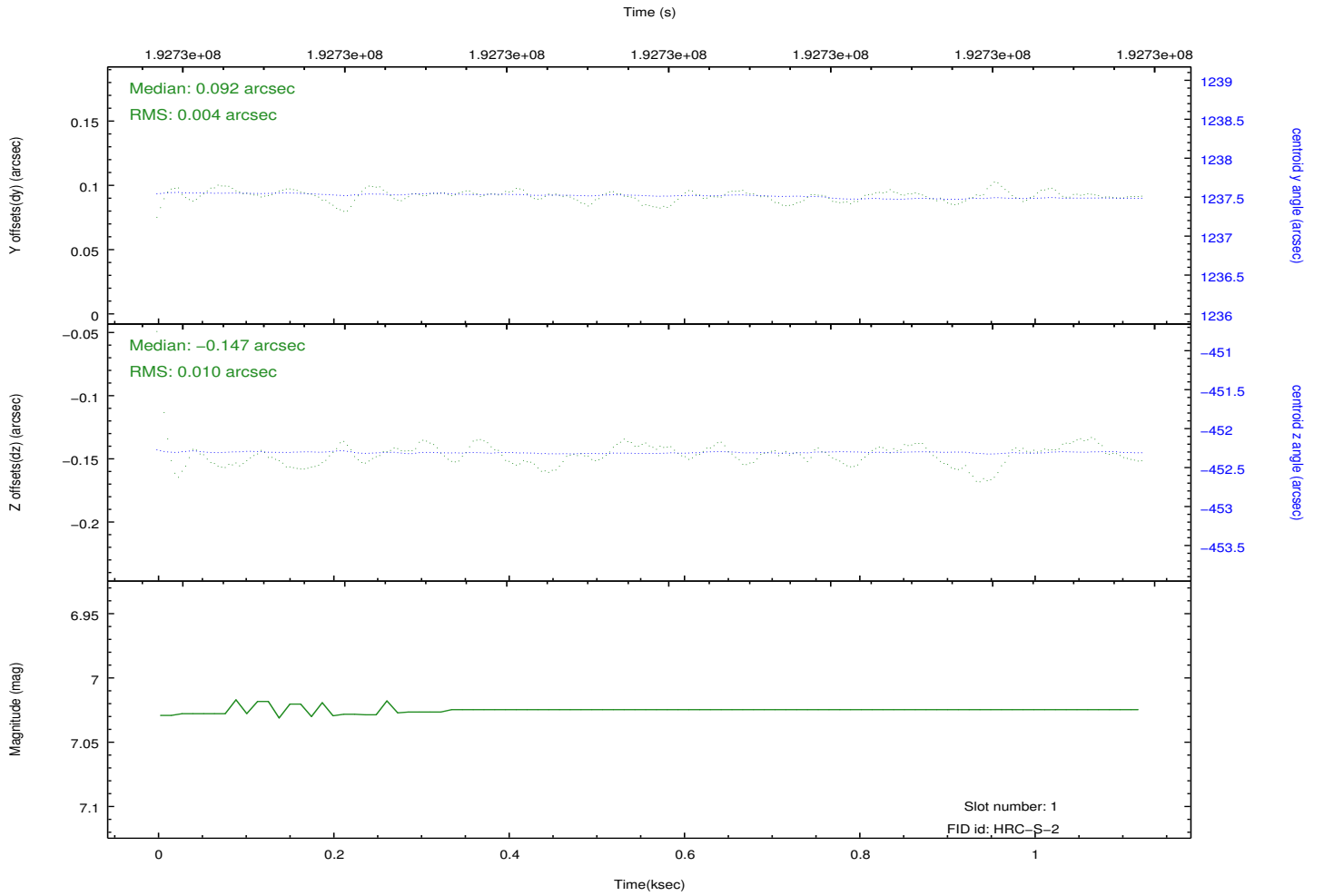
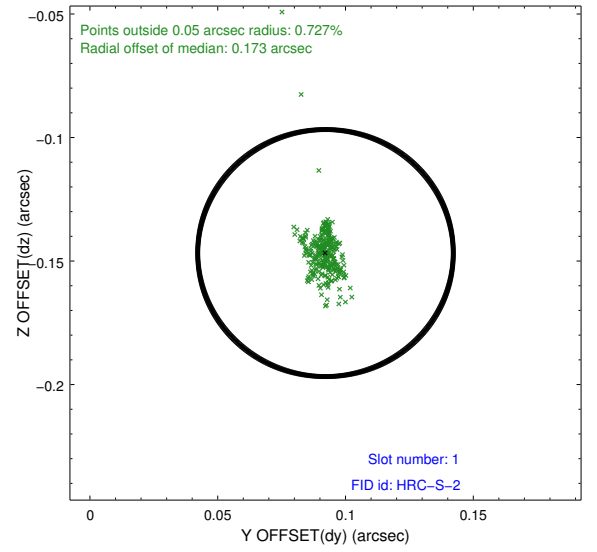
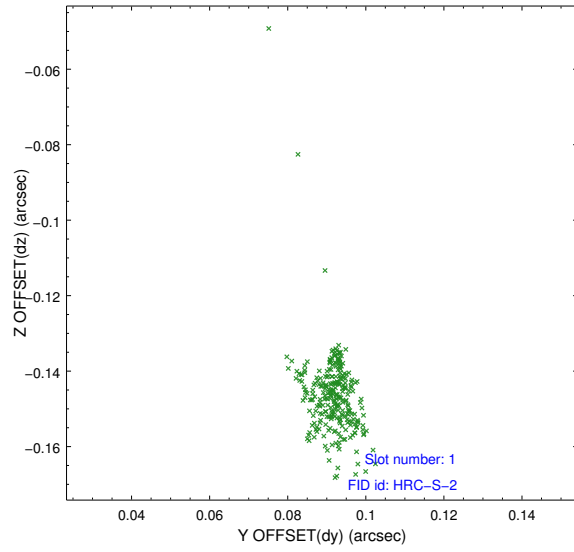


## 2.5 FID Slots

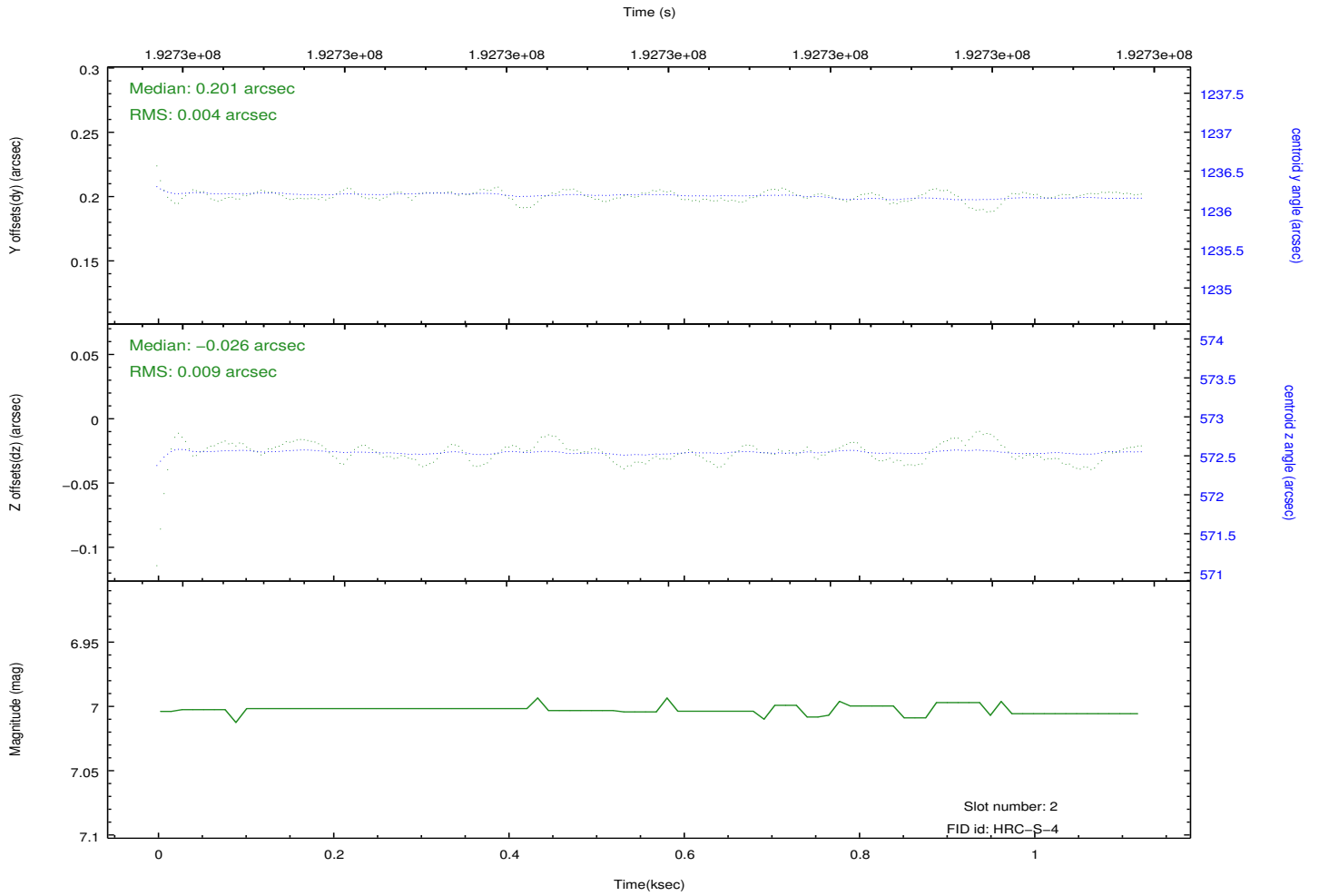
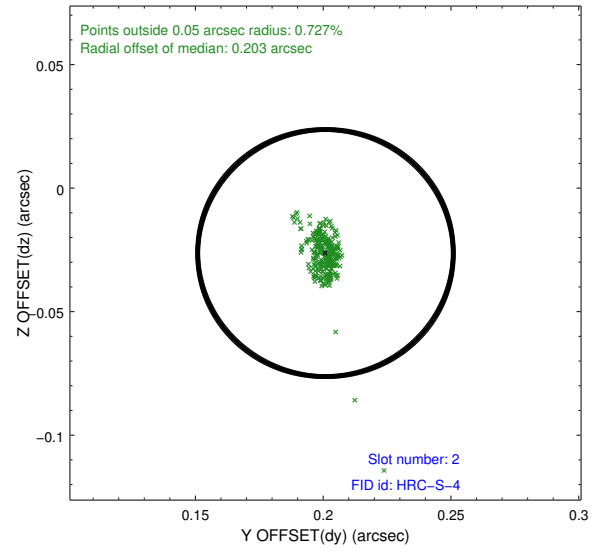
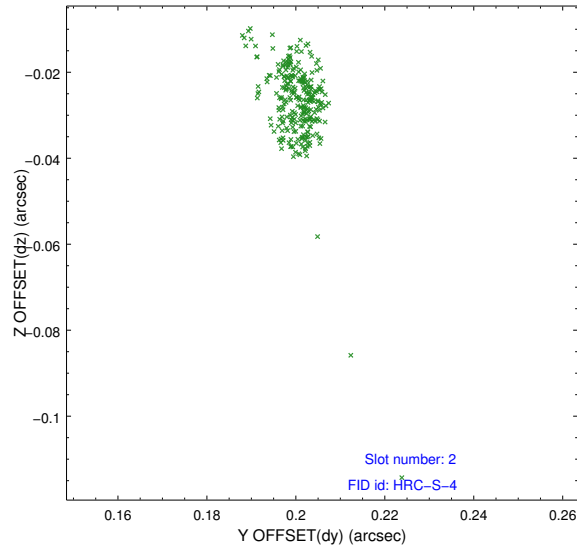
### 2.5.1 Slot 0



## 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)	2012.12.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.088

### A.2 Comments