

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 1565 - L2 Version 5  
Chandra X-Ray Center

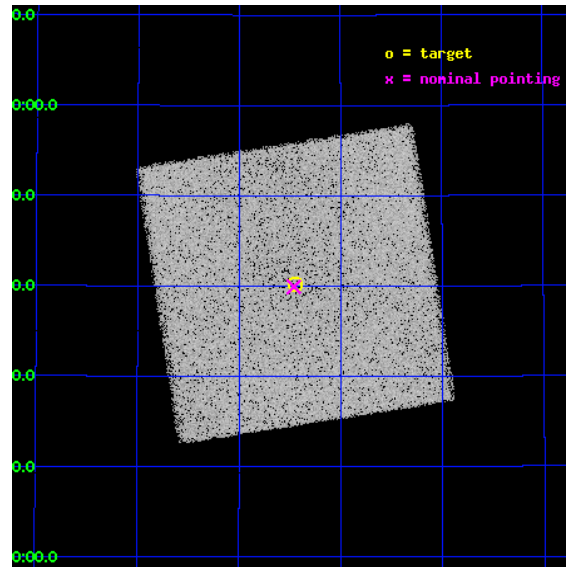
L2 Processing Date : Sep 7 2012

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# 1 Front

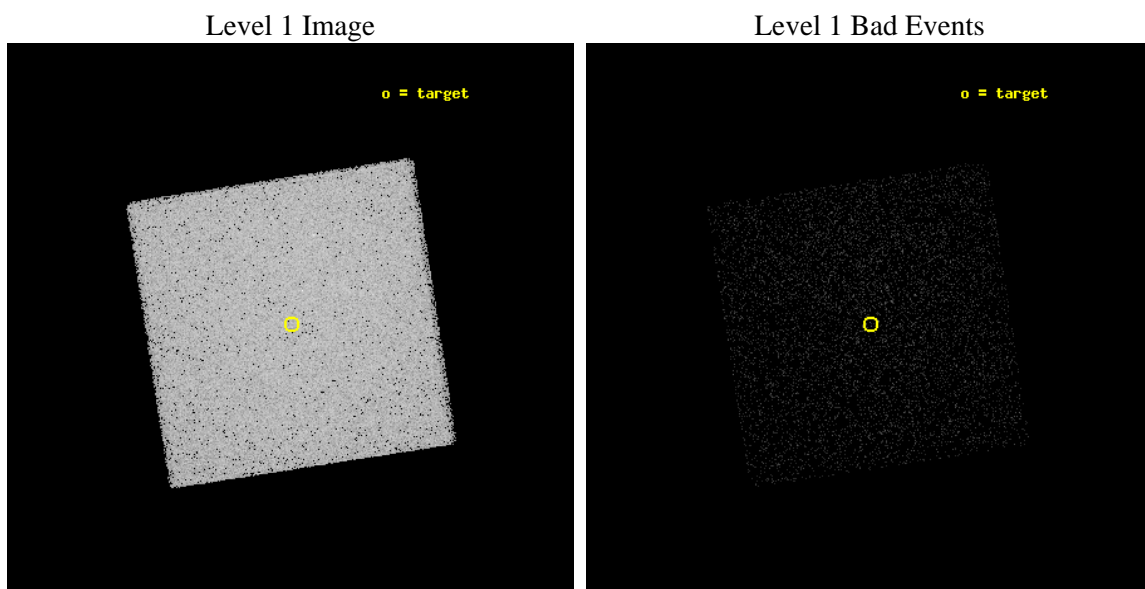
seq_num	600122	Sequence number
obs_id	1565	Observation id
title	HRC MONITORING OF M31	Proposal title
observer	Dr. Stephen Murray	Principal investigator
object	M31 - SOUTH 2	Source name
ra_targ	10.1125	Observer's specified target RA [deg]
dec_targ	40.67	Observer's specified target Dec [deg]
ra_nom	10.114990367182	Nominal RA [deg]
dec_nom	40.665365732691	Nominal Dec [deg]
roll_nom	306.15169278399	Nominal Roll [deg]
revision	5	Processing version of data
ontime	971.95628744364	[s]
livetime	413.44996142904	Ontime multiplied by DTCOR
l2events	135709	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	1100.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	971.95628744364	[s]
caldbver	4.5.1.1	&#160	l1events	213997	Number of level 1 events
date	2012-09-07T04:40:34	Date and time of file creation			
revision	5	Processing version of data			

### 2.1.3 Events

#### Level 1 Events

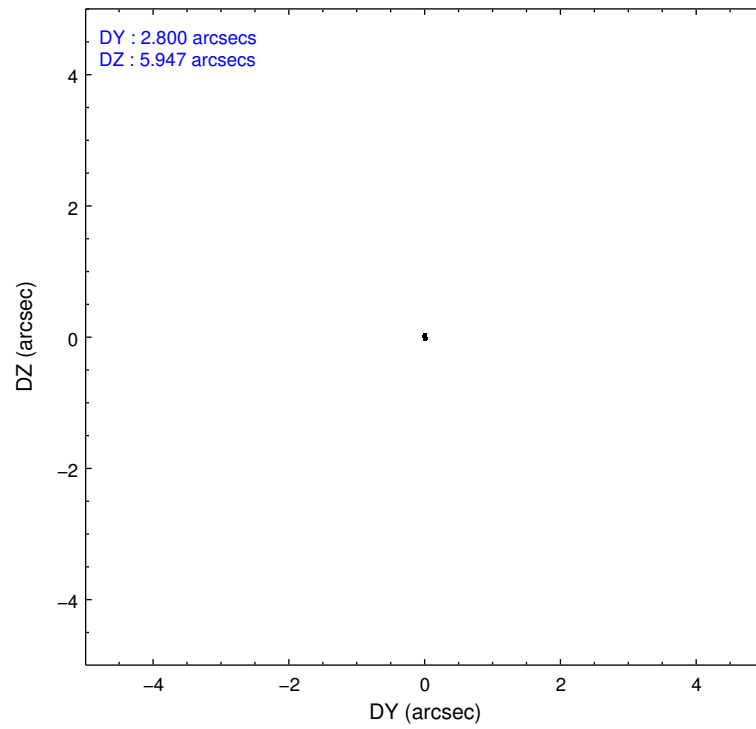
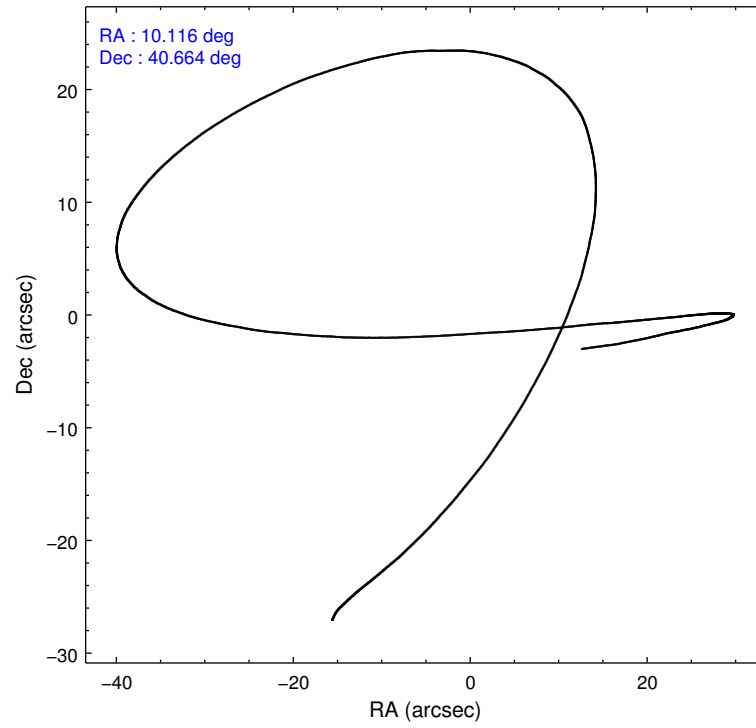
	<b>segment 0</b>
level 1 events	213997
rejected events	34687
rejected %	16%

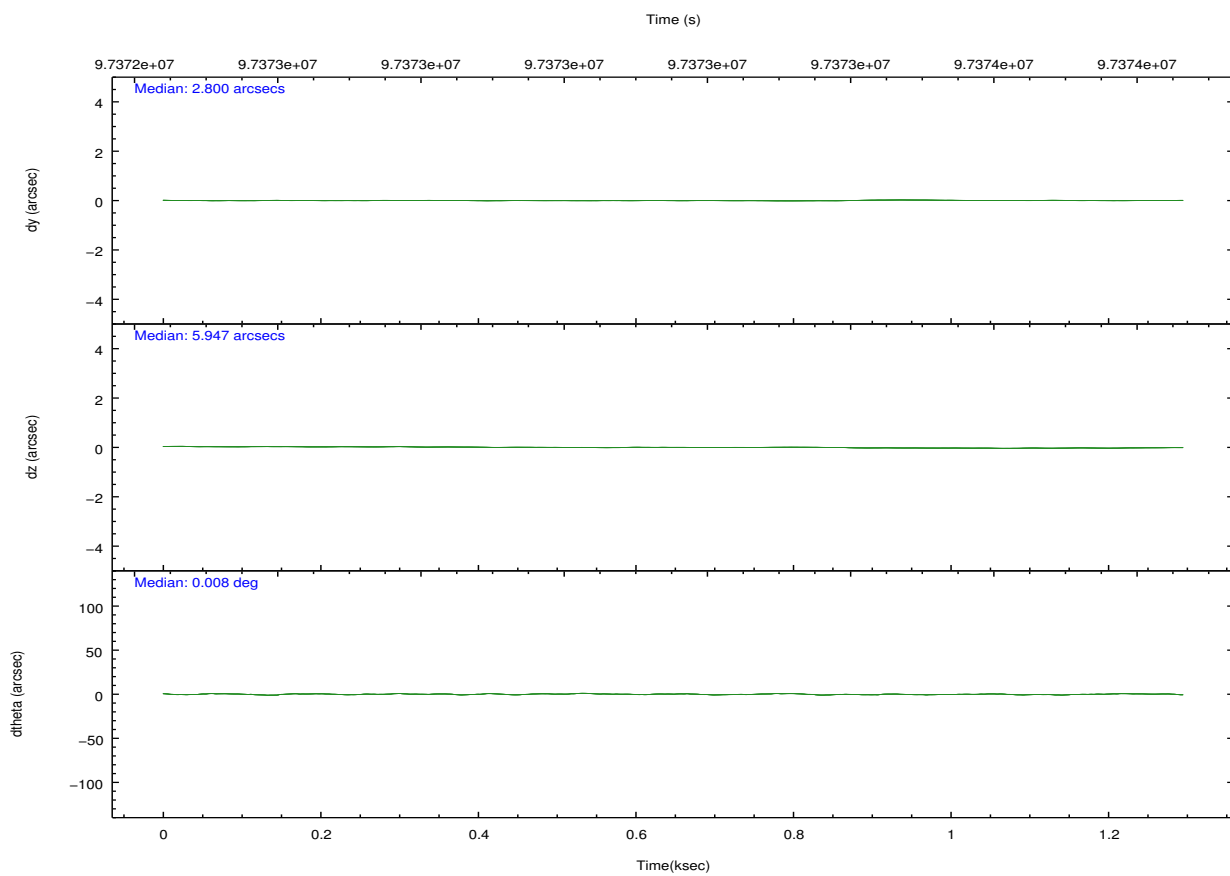
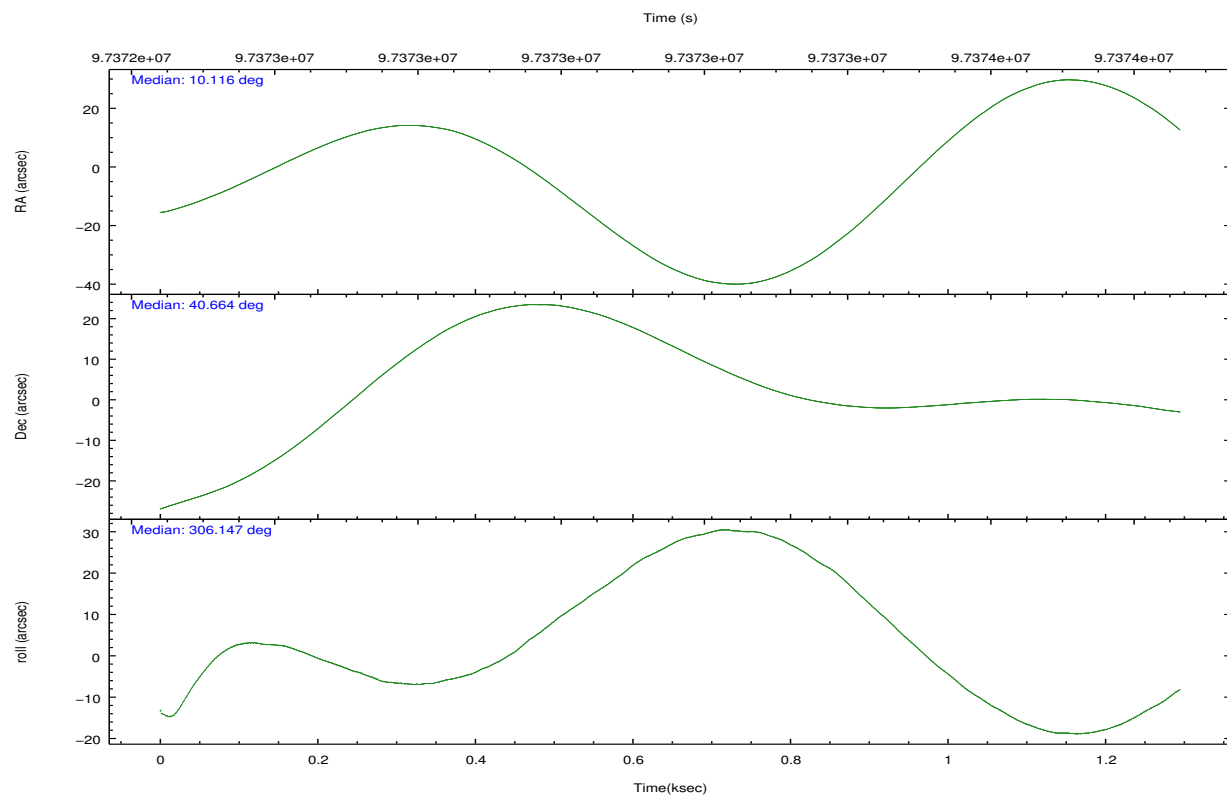
## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	HRC	HRC
Detector	HRC-I	HRC-I
Grating	NONE	NONE
Data mode	OBSERVING	OBSERVING
Observation mode	POINTING	POINTING
[deg] Pointing RA	10.080764	10.11499036718208
[deg] Pointing Dec	40.676327	40.66536573269115
[deg] Pointing Roll	306.269728	306.1516927839879
[s] Window start time (MET)	97372864.184000	97372864.184000
[s] Window stop time (MET)	98496064.184000	98496064.184000
[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)	97372699.184000	97372094.429124
Observation start date	2001-01-31T23:57:15	2001-01-31T23:48:14
[s] Observation end time (MET)	97373799.184000	97373933.279195
Observation end date	2001-02-01T00:15:35	2001-02-01T00:18:53

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED

## 2.3 Aspect





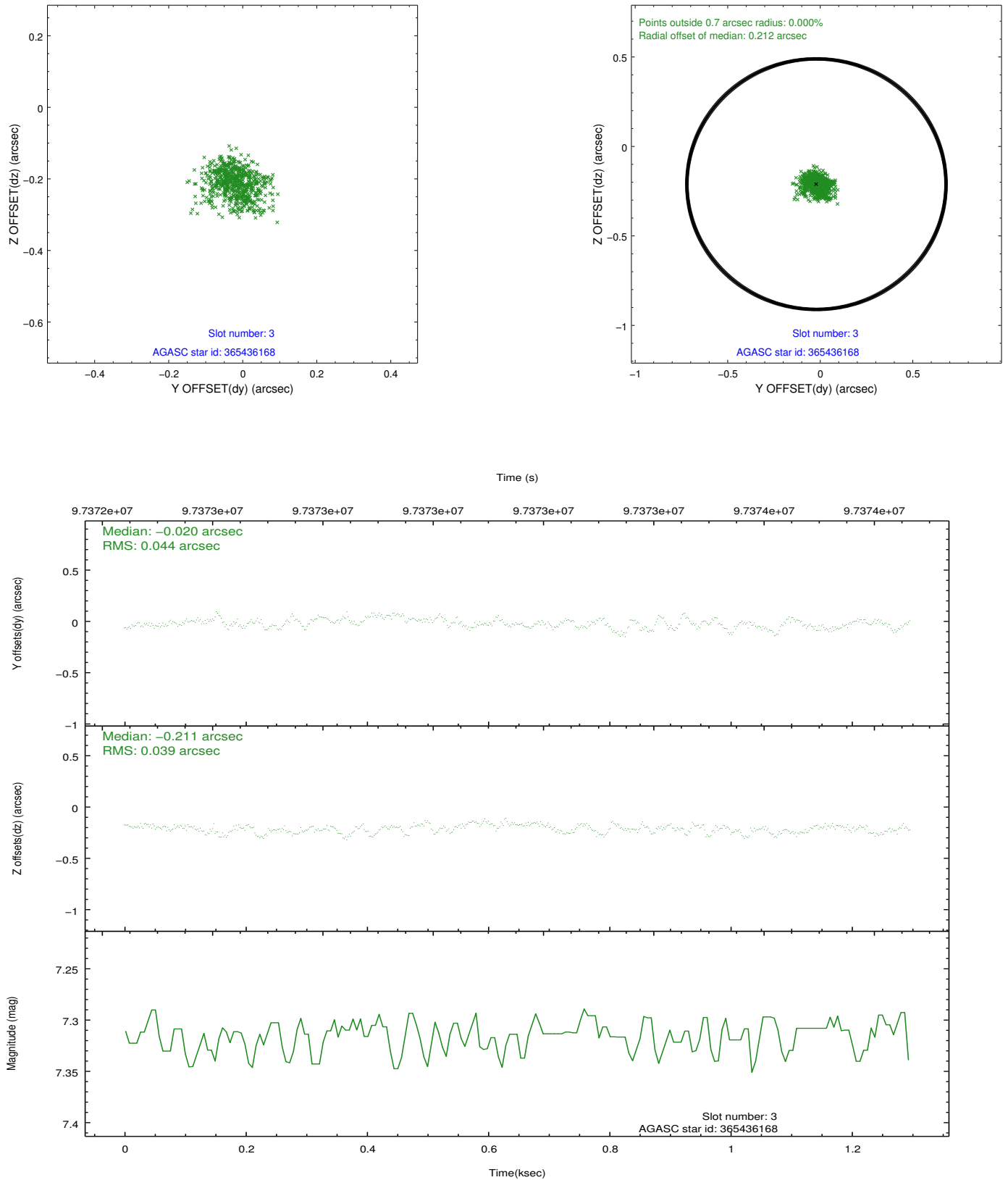
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-I-1	6.95	316	0.016	0.010	0.007	0.012	0.000000	0.000000	-758.23	-1293.81
1	FID	HRC-I-2	6.99	316	0.046	-0.019	0.006	0.009	0.000000	0.000000	852.03	-1299.48
2	FID	HRC-I-3	7.04	316	0.057	-0.080	0.005	0.010	0.000000	0.000000	-1184.02	1006.54
3	GUIDE	365436168	7.31	633	-0.020	-0.211	0.062	0.099	9.360006	40.332380	-182.60	-2325.13
4	GUIDE	367148872	7.20	633	0.051	0.023	0.048	0.077	10.505940	40.688258	645.13	956.68
5	GUIDE	367139768	7.97	633	0.007	0.030	0.061	0.101	11.069715	40.685175	1555.79	2203.61
6	GUIDE	367139648	8.20	633	0.060	0.115	0.049	0.073	11.021290	40.433909	2215.27	1570.99
7	GUIDE	365431072	9.00	631	-0.094	0.037	0.069	0.114	9.376278	41.092224	-2344.92	-650.81

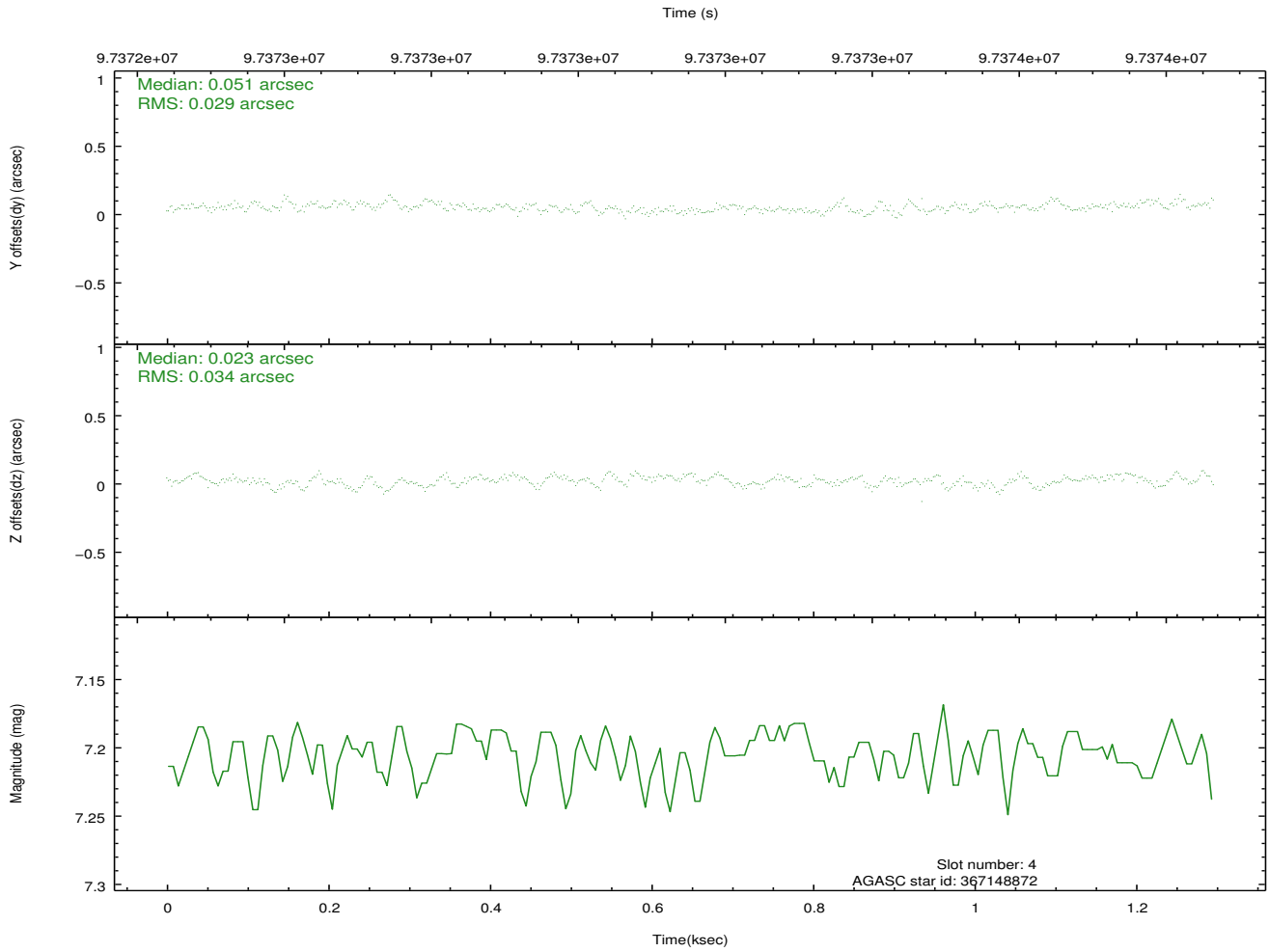
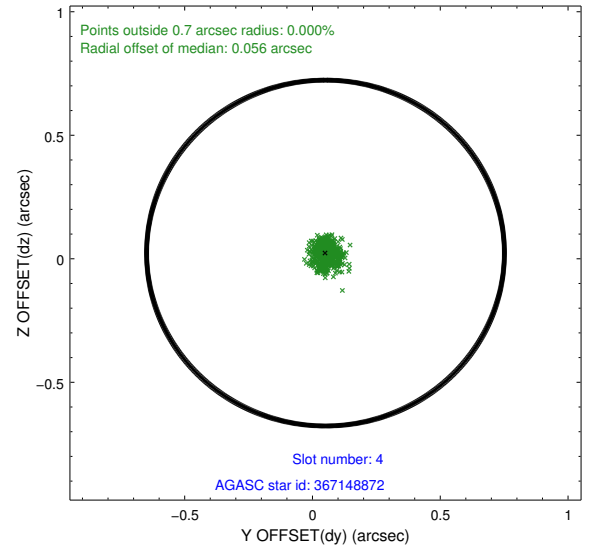
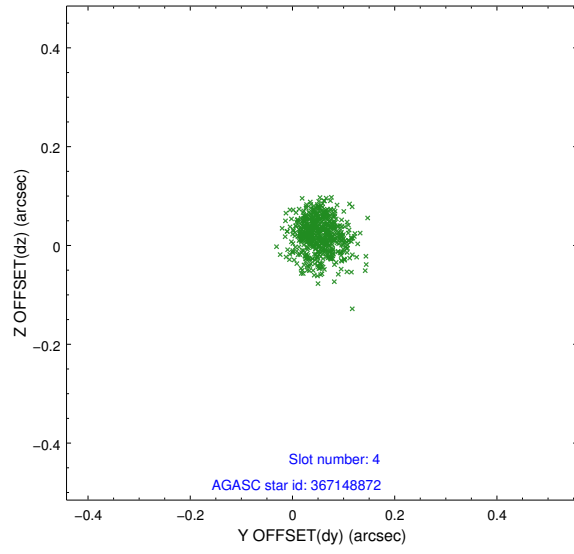


## 2.4 Star Slots

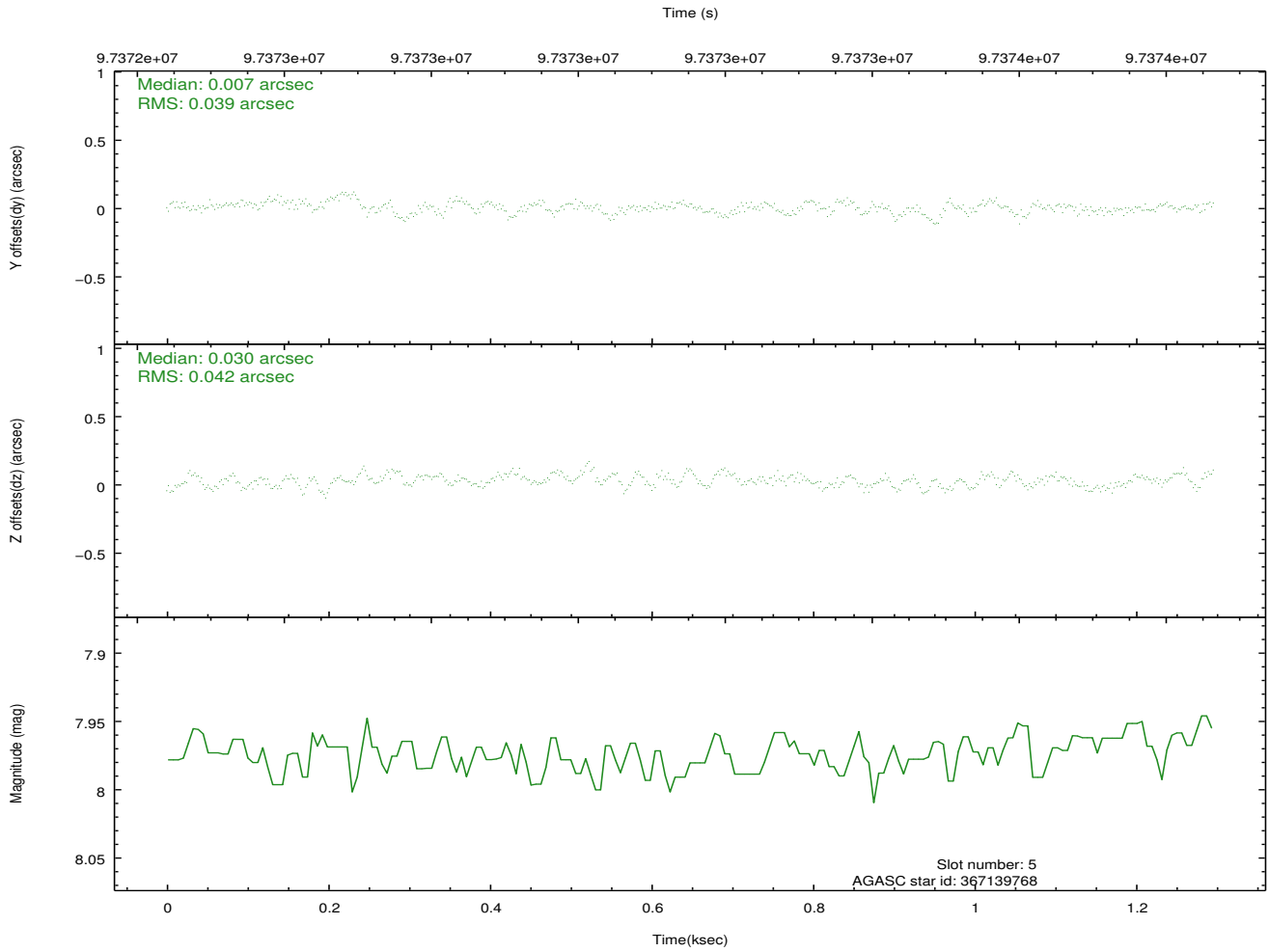
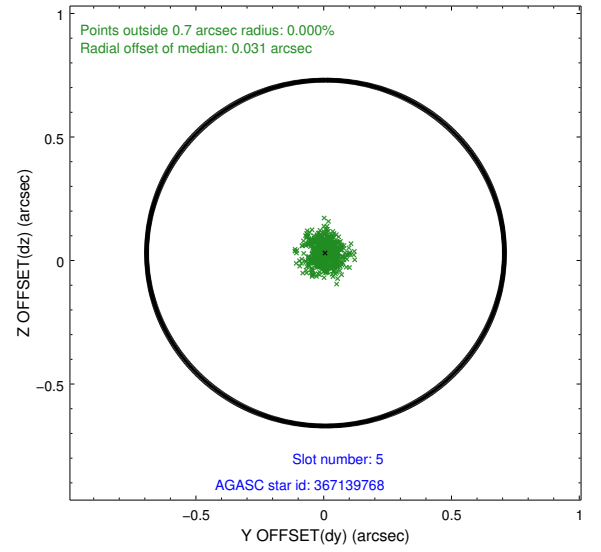
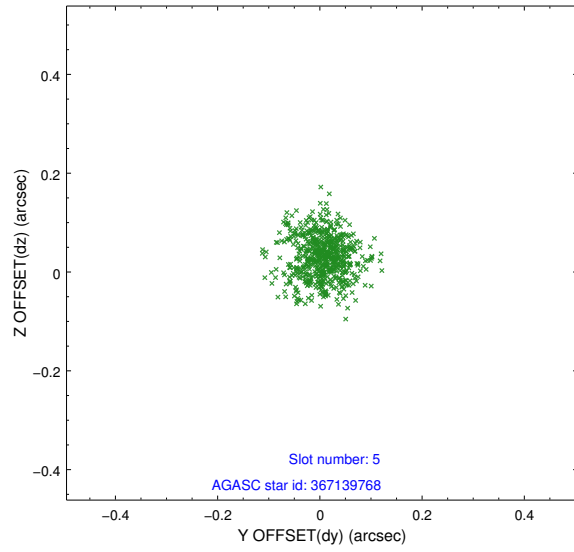
### 2.4.1 Slot 3



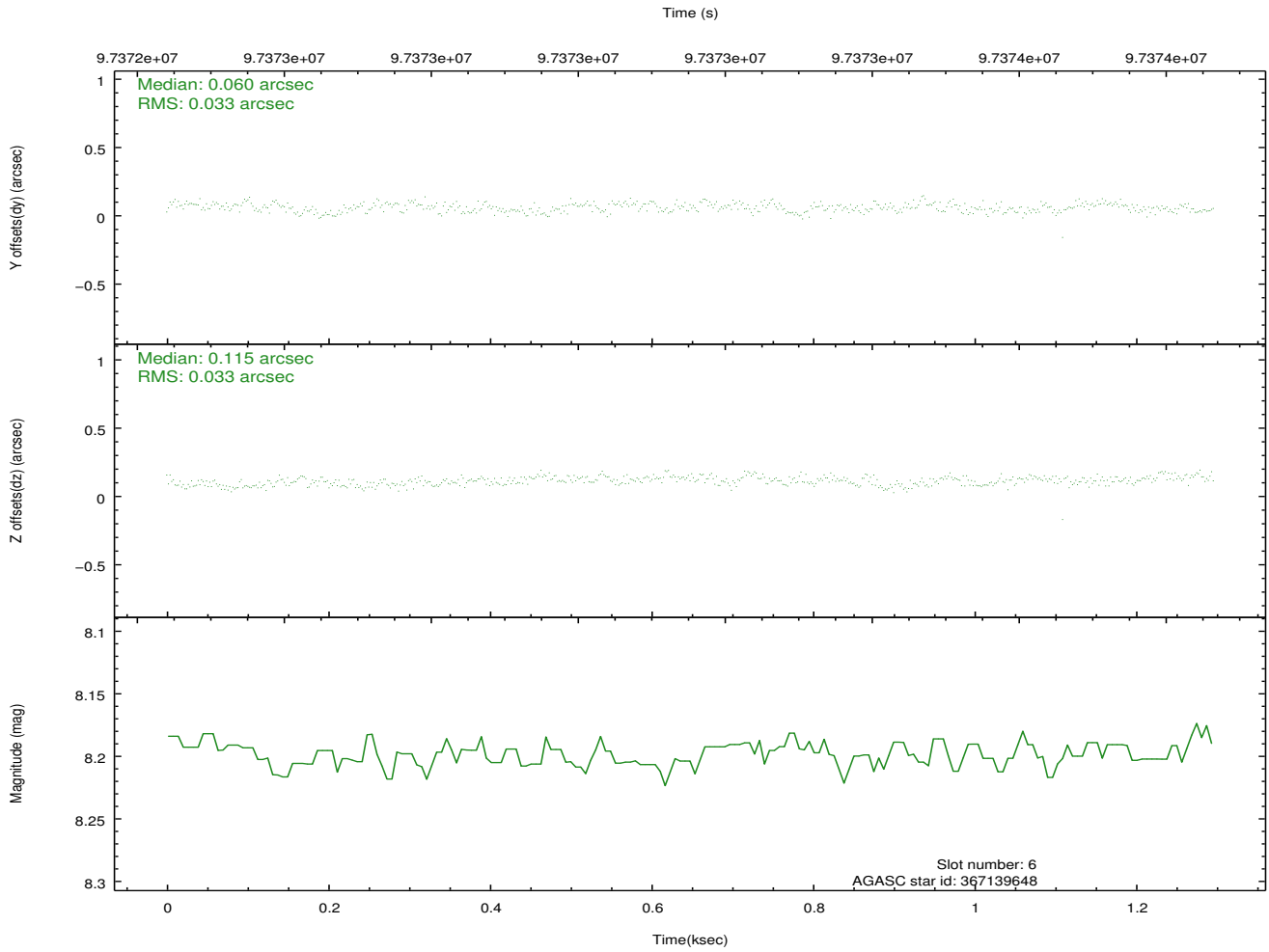
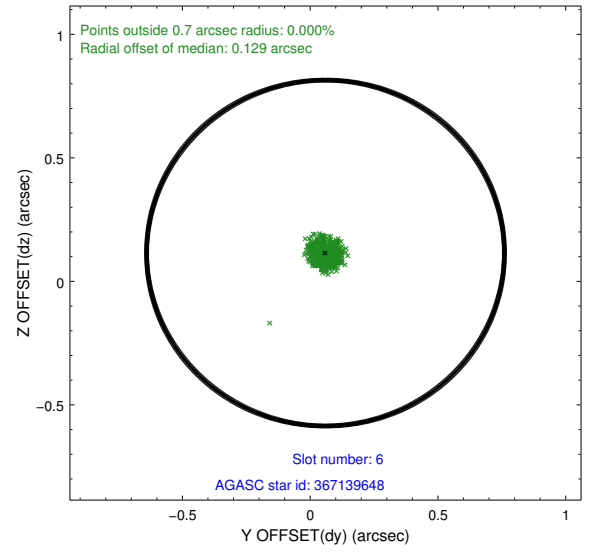
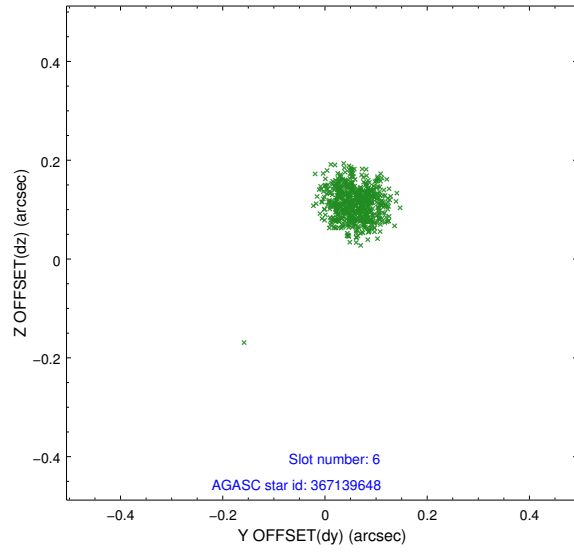
## 2.4.2 Slot 4



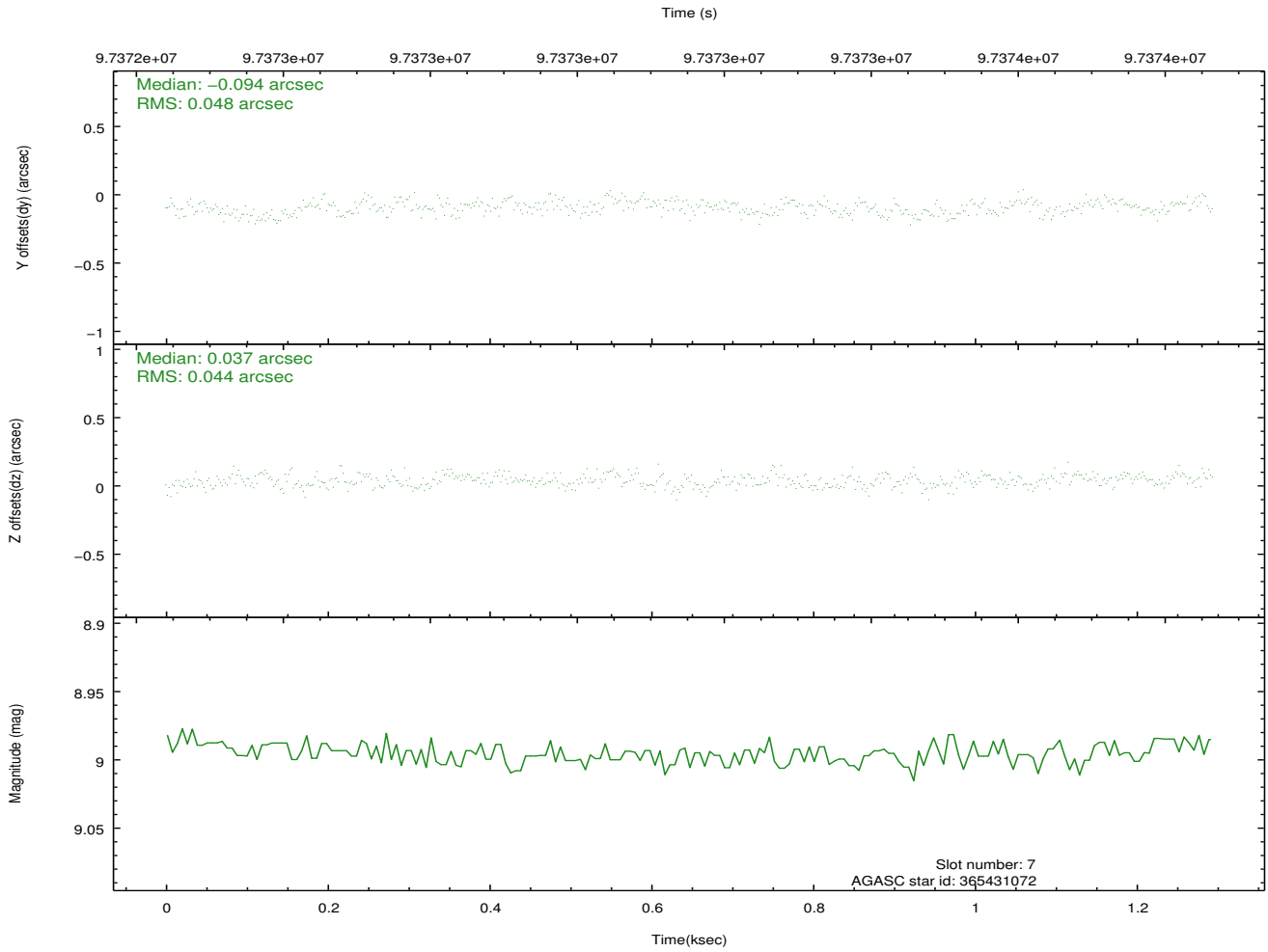
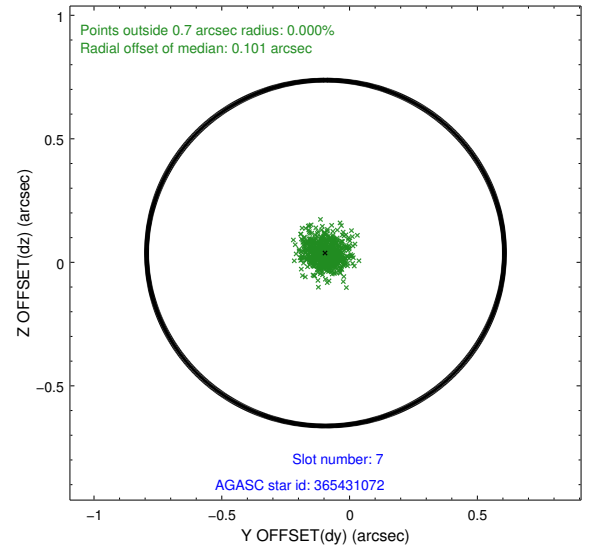
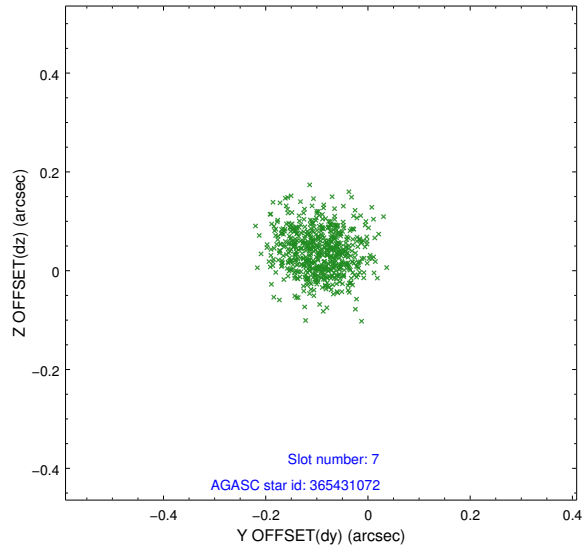
### 2.4.3 Slot 5



## 2.4.4 Slot 6

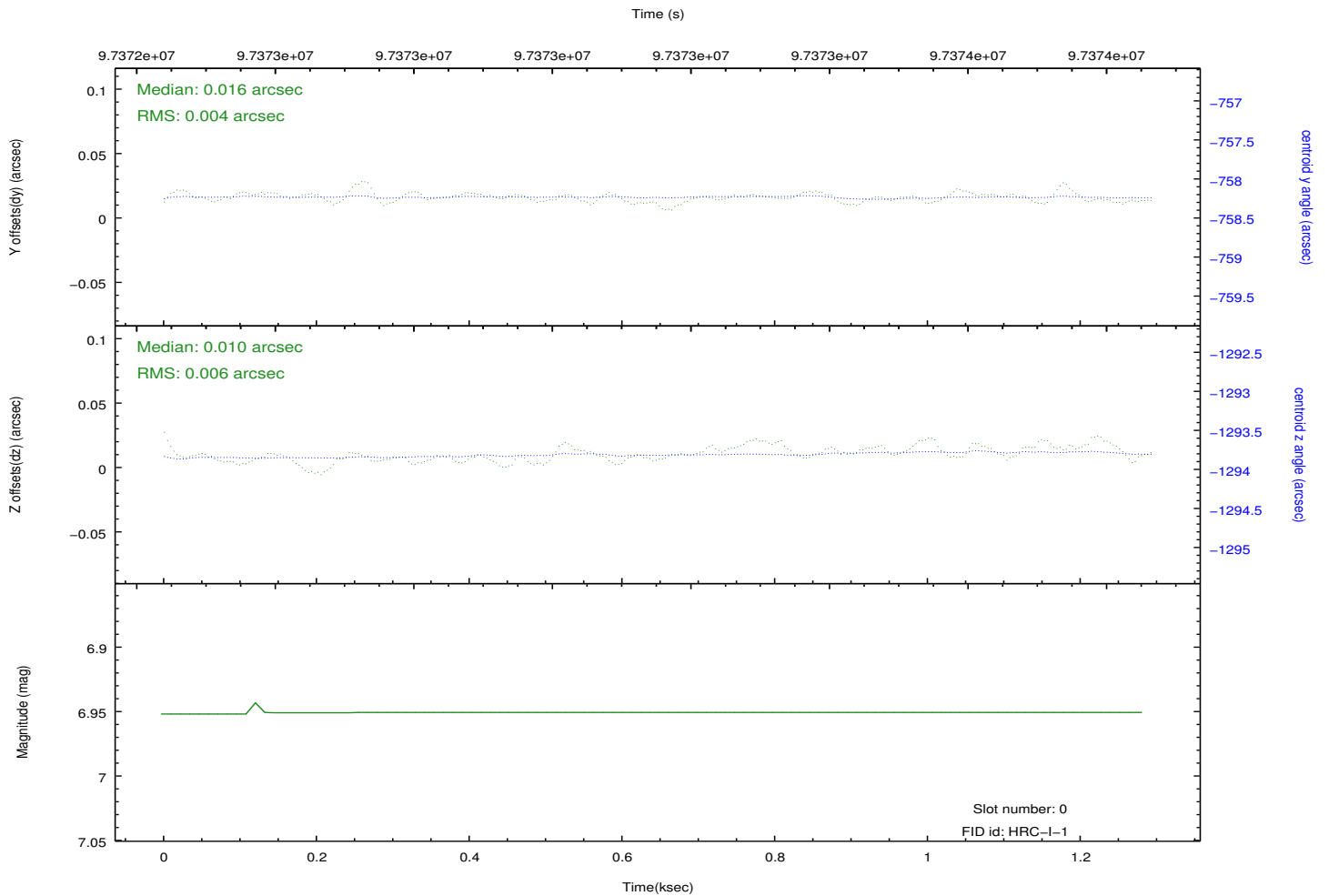
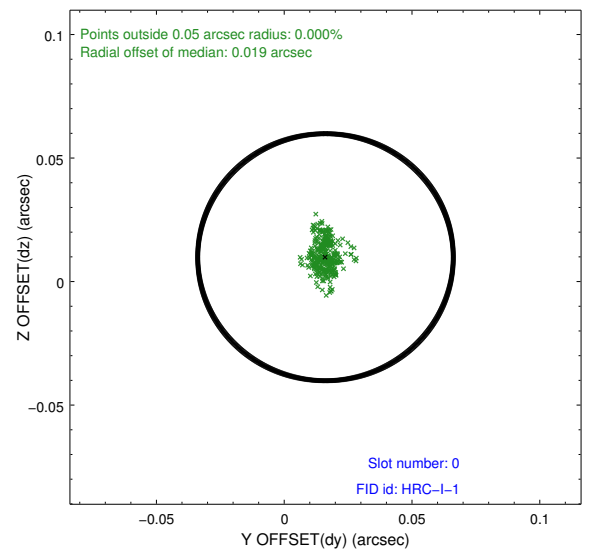
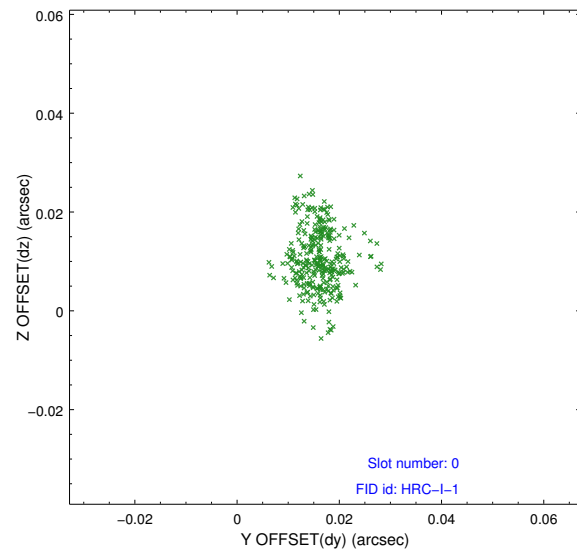


## 2.4.5 Slot 7

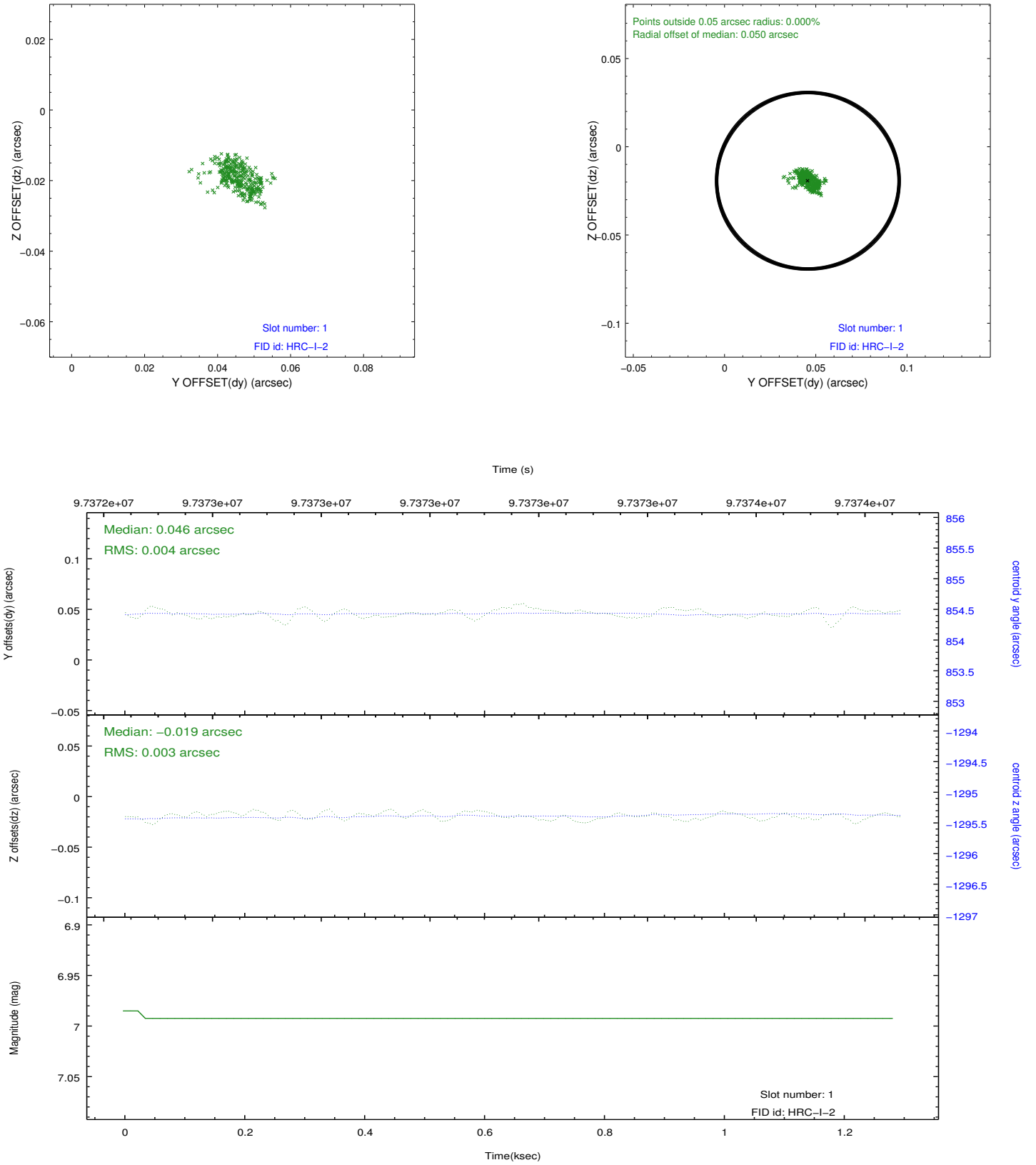


## 2.5 FID Slots

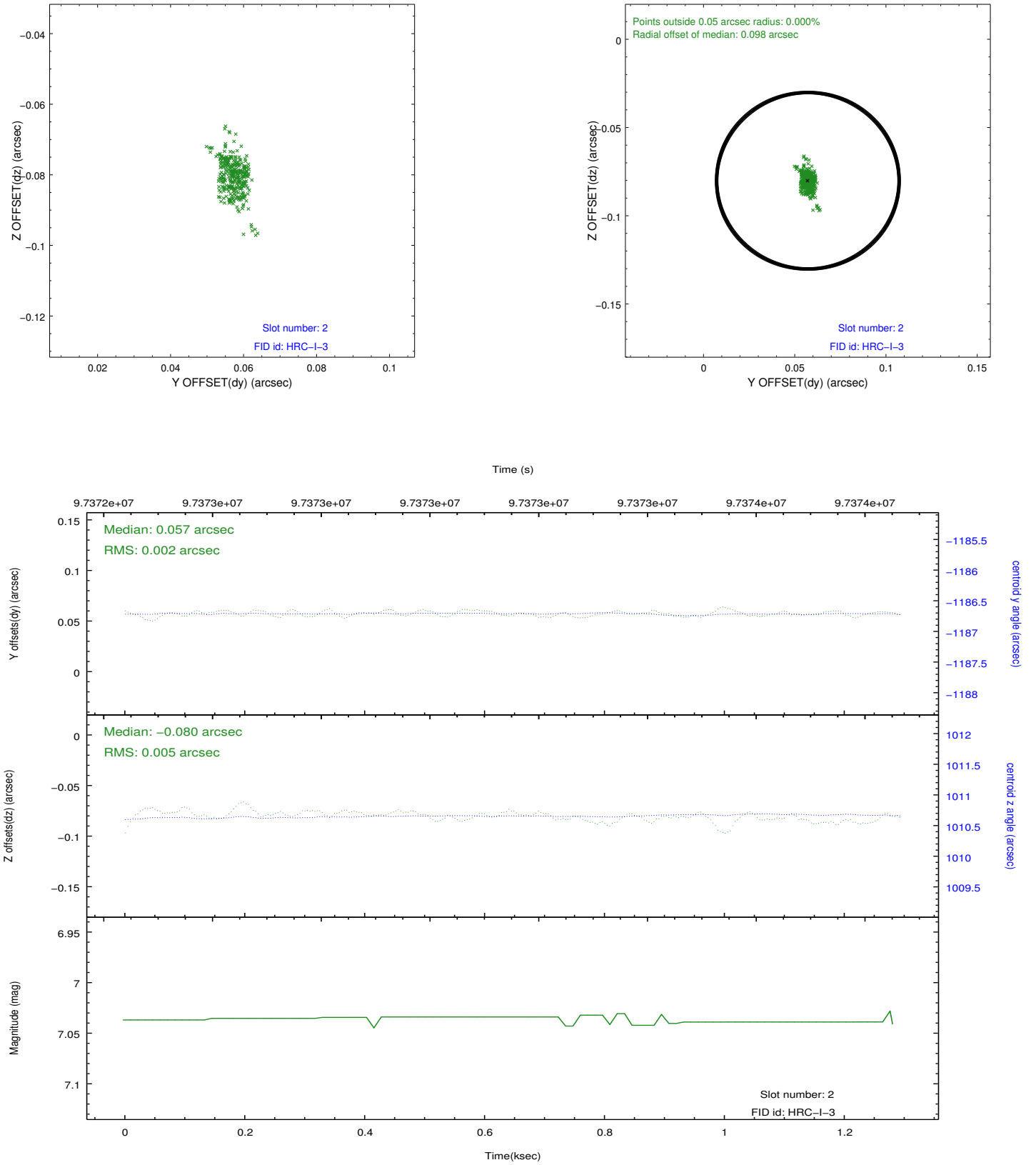
### 2.5.1 Slot 0



## 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)	2012.09.17
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	0.971

### A.2 Comments

Window constraint not met: window was from Feb 1 2001 12:00AM to Feb 14 2001 12:00AM, the observation started at 2001-01-31T23:48:14.