

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 2599 - L2 Version 3  
Chandra X-Ray Center

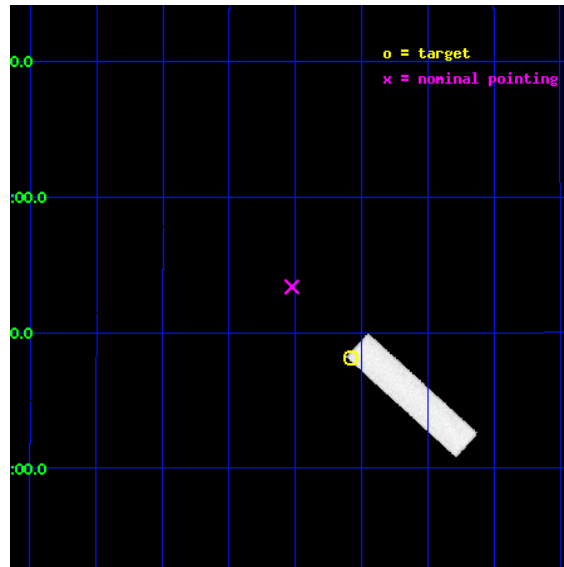
L2 Processing Date : Sep 28 2012

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# 1 Front

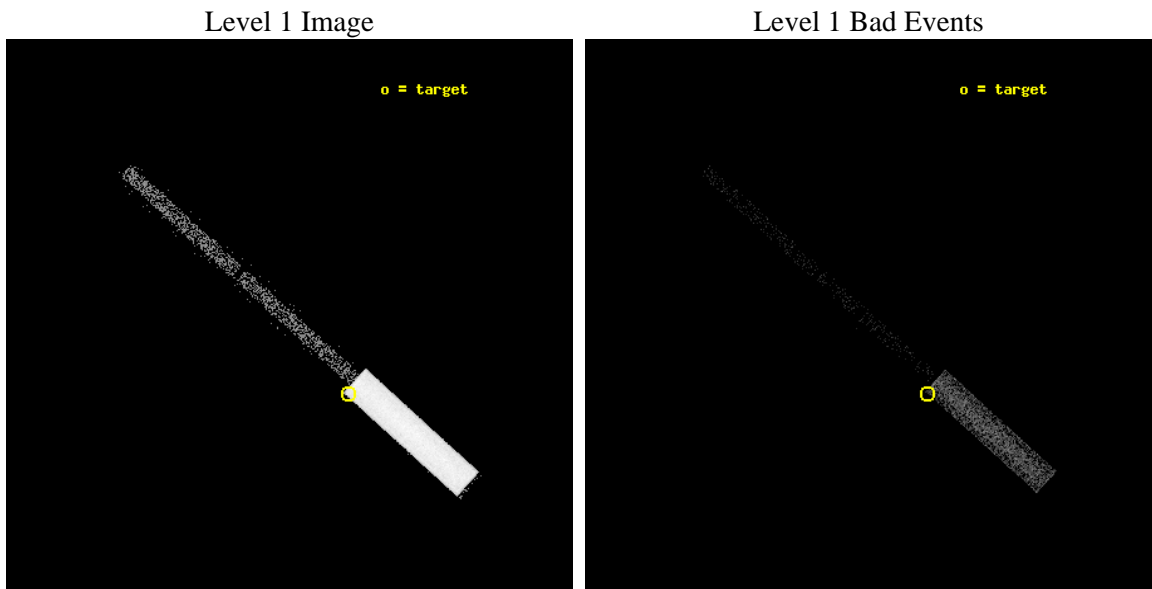
seq_num	290155	Sequence number
obs_id	2599	Observation id
title	AO3 CALIBRATION OBSERVATIONS OF BETELGEUSE	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	BETELGEUSE	Source name
ra_targ	88.792917	Observer's specified target RA [deg]
dec_targ	7.407056	Observer's specified target Dec [deg]
ra_nom	89.013093672546	Nominal RA [deg]
dec_nom	7.6699296068201	Nominal Dec [deg]
roll_nom	41.999413756948	Nominal Roll [deg]
revision	3	Processing version of data
ontime	2143.5313358009	[s]
liveltime	2132.4473407017	Ontime multiplied by DTCOR
l2events	80202	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	2143.5313358009	[s]
caldsver	4.5.2	&#160	l1events	120394	Number of level 1 events
date	2012-09-28T22:05:20	Date and time of file creation			
revision	3	Processing version of data			

### 2.1.3 Events

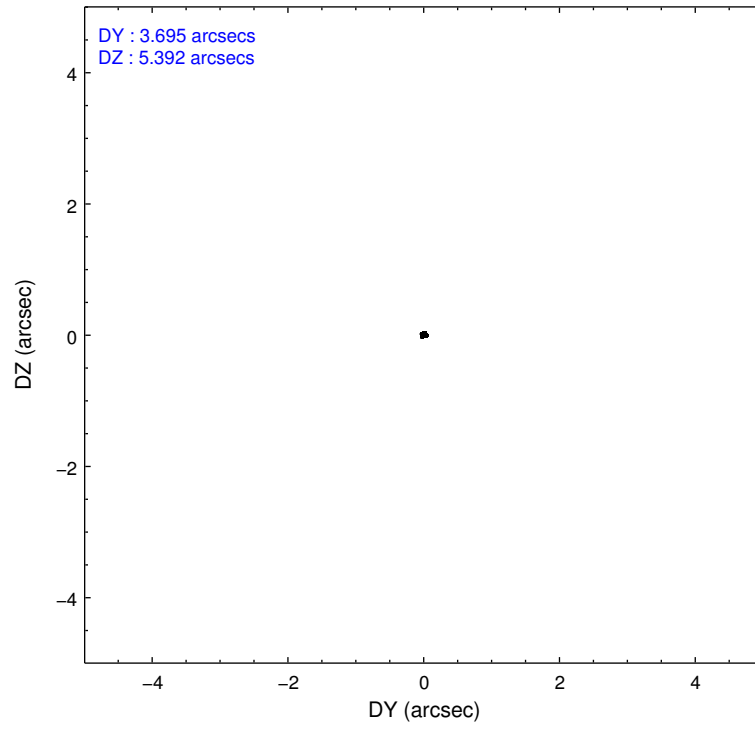
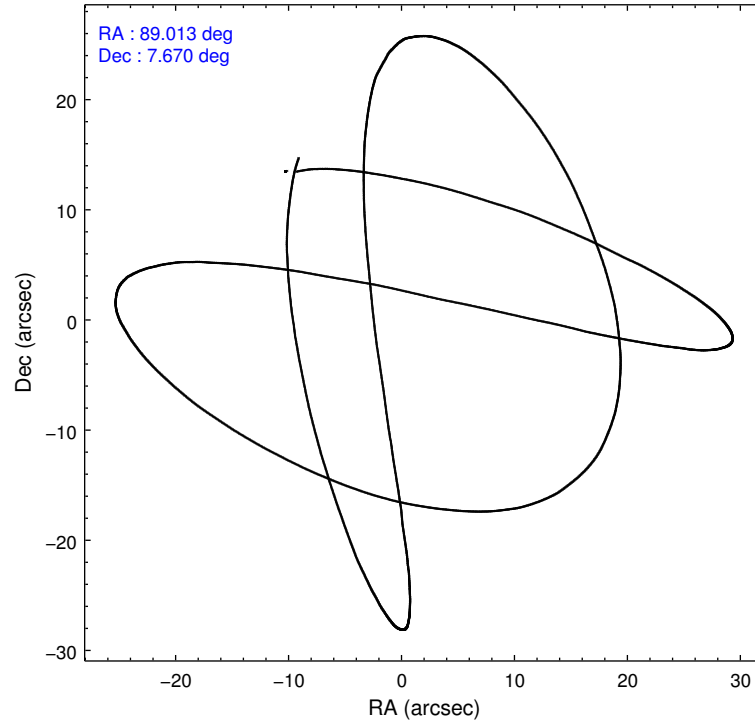
Level 1 Events

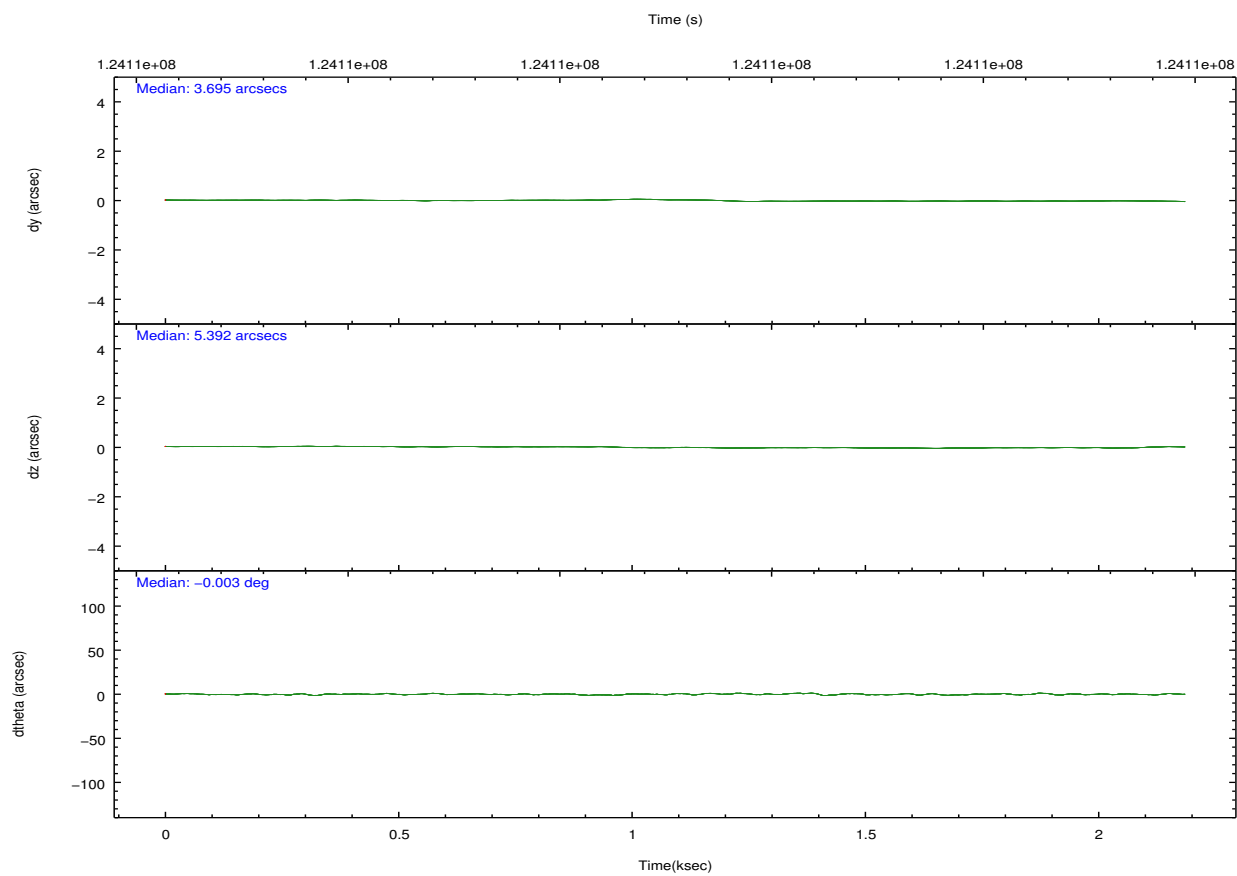
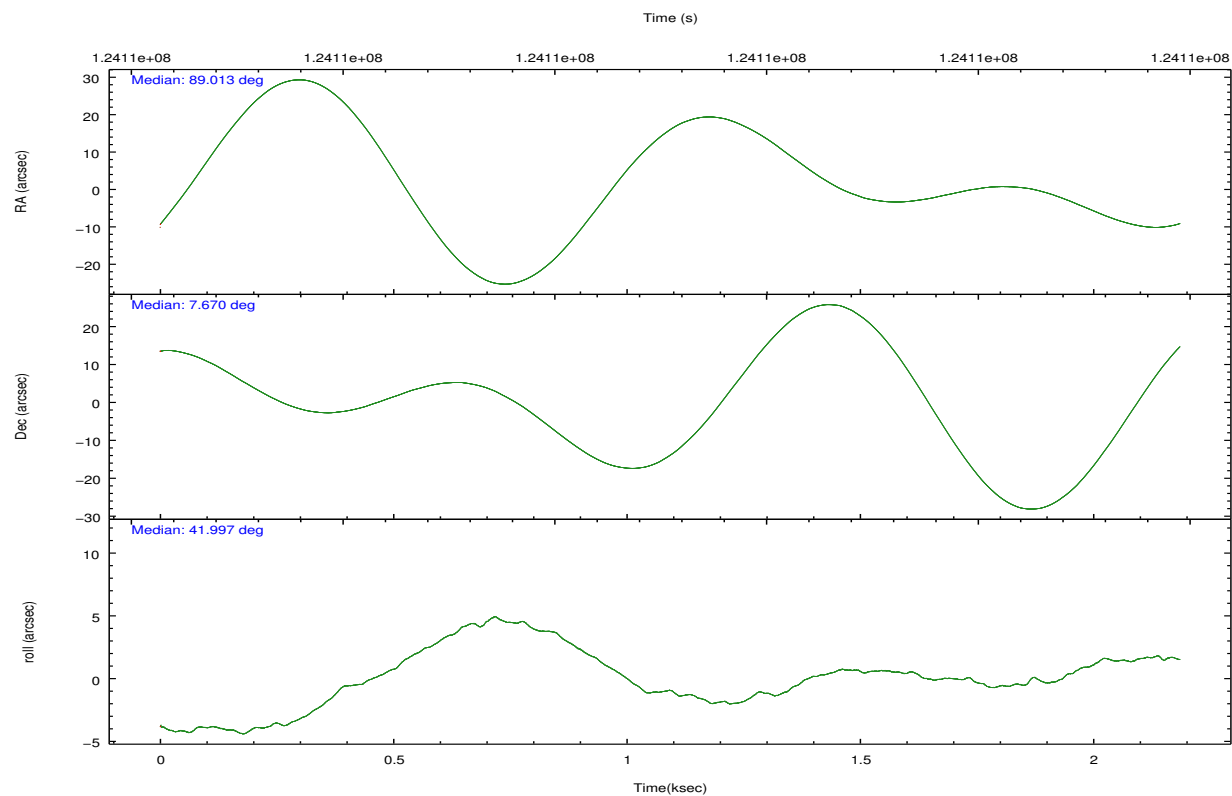
	segment 1	segment 2	segment 3
level 1 events	118064	1131	1199
rejected events	17042	1102	1199
rejected %	14%	97%	100%

## 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	89.005343	89.01309367254574			
[deg] Pointing Dec	7.642481	7.669929606820089			
[deg] Pointing Roll	41.933099	41.99941375694798			
[s] Window start time (MET)	123552064.184000	123552064.184000			
[s] Window stop time (MET)	126144064.184000	126144064.184000			
[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)	124110865.184000	124110489.42688			
Observation start date	2001-12-07T11:13:21	2001-12-07T11:08:09			
[s] Observation end time (MET)	124112865.184000	124113035.52698			
Observation end date	2001-12-07T11:46:41	2001-12-07T11:50:35			

## 2.3 Aspect





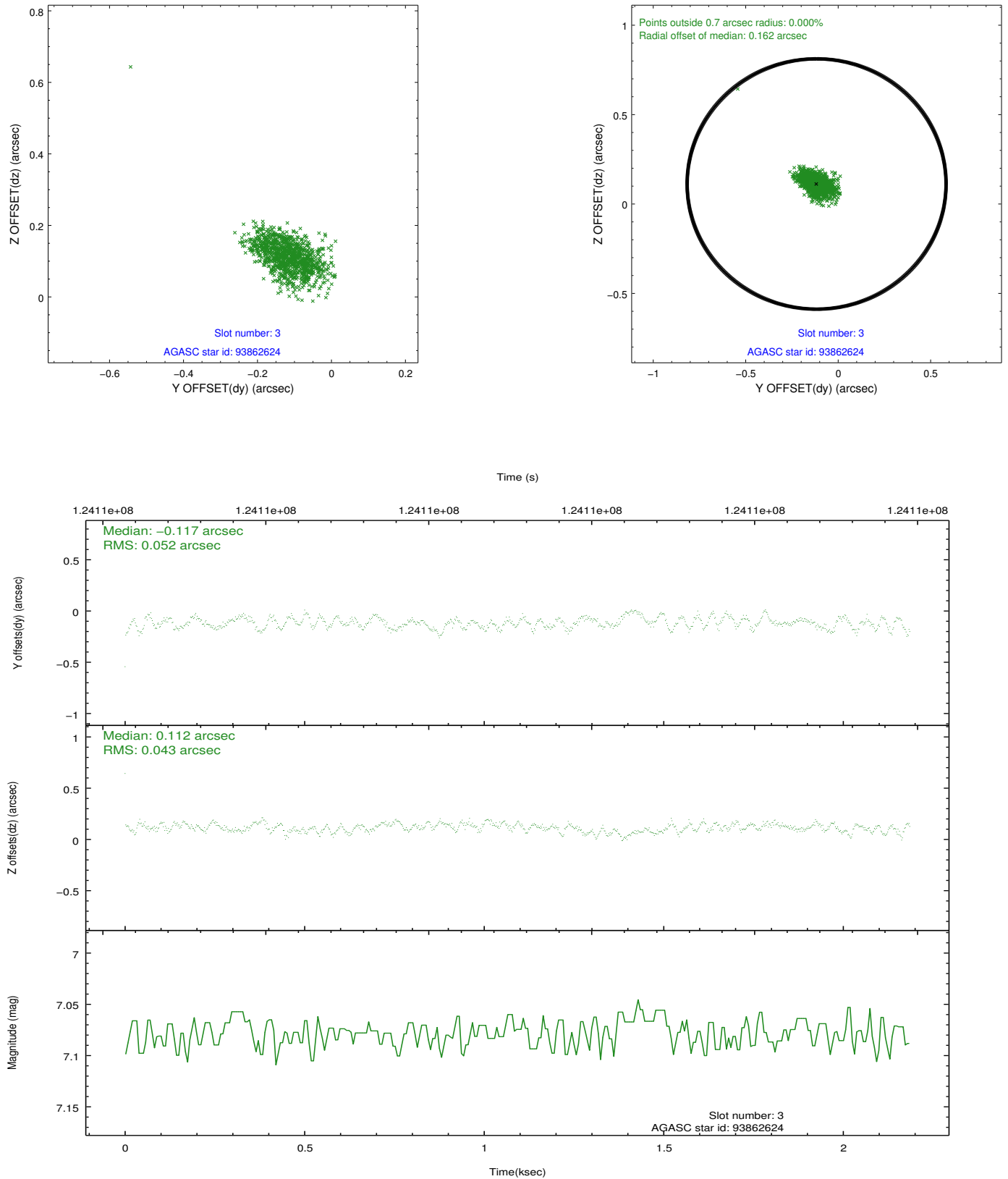
Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-S-1	6.99	533	0.164	-0.168	0.006	0.011	0.000000	0.000000	-1157.73	-453.94
1	FID	HRC-S-2	6.98	534	0.080	-0.094	0.005	0.010	0.000000	0.000000	1239.70	-447.37
2	FID	HRC-S-3	7.01	534	0.146	-0.040	0.006	0.010	0.000000	0.000000	-1158.14	574.88
3	GUIDE	93862624	7.08	1067	-0.117	0.112	0.069	0.112	89.614911	7.860553	2143.39	-865.64
4	GUIDE	16912512	7.70	1067	0.101	0.131	0.052	0.085	88.651510	7.129862	-2170.44	-526.95
5	GUIDE	93854800	7.58	1065	0.078	-0.125	0.058	0.094	88.376308	7.655454	-1638.85	1536.70
6	GUIDE	93862944	8.14	1067	-0.095	0.115	0.064	0.106	89.630914	7.938807	2372.31	-692.45
7	GUIDE	93855712	8.86	1066	0.033	-0.235	0.101	0.155	88.684908	8.226237	558.02	2327.49

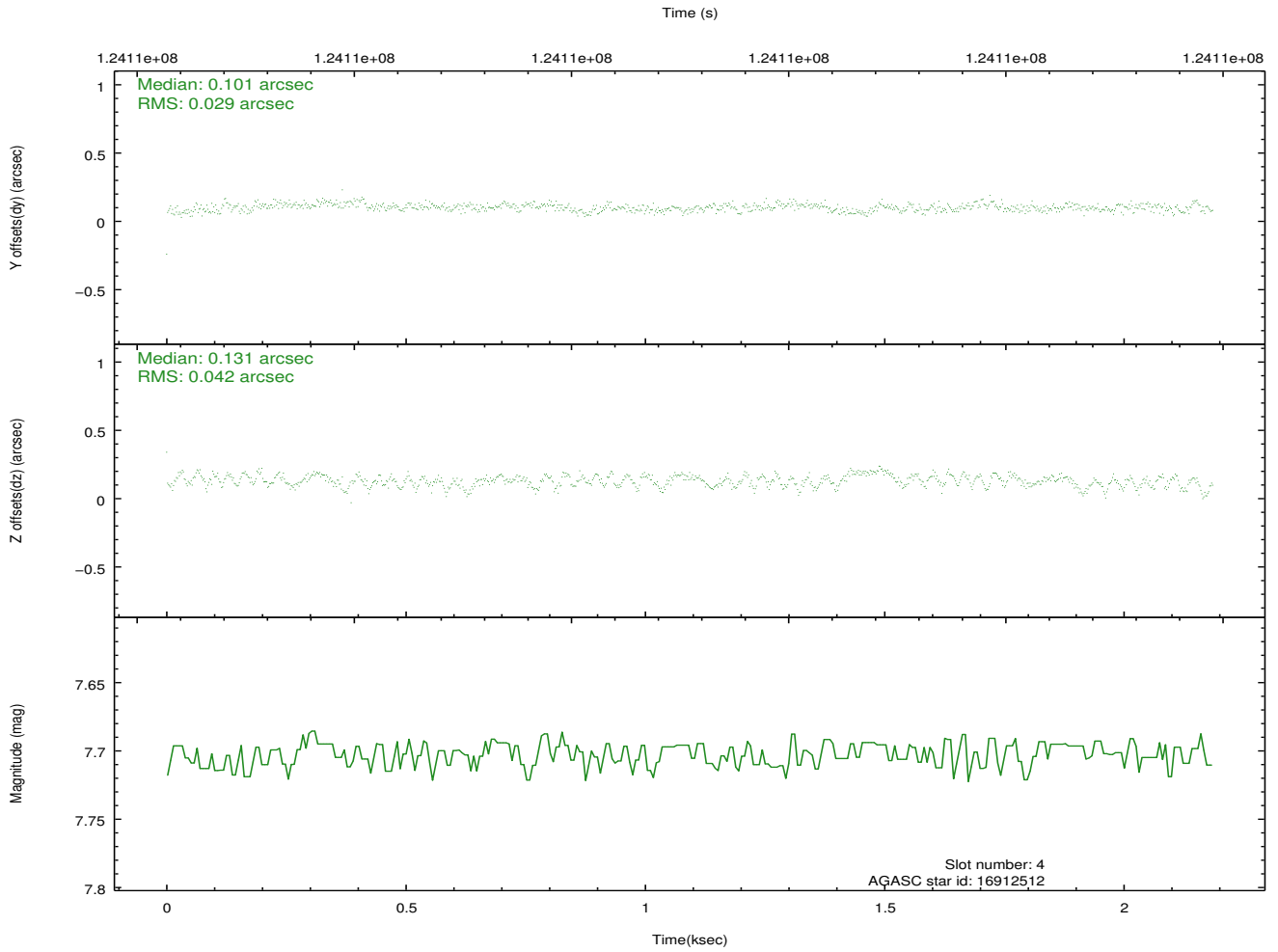
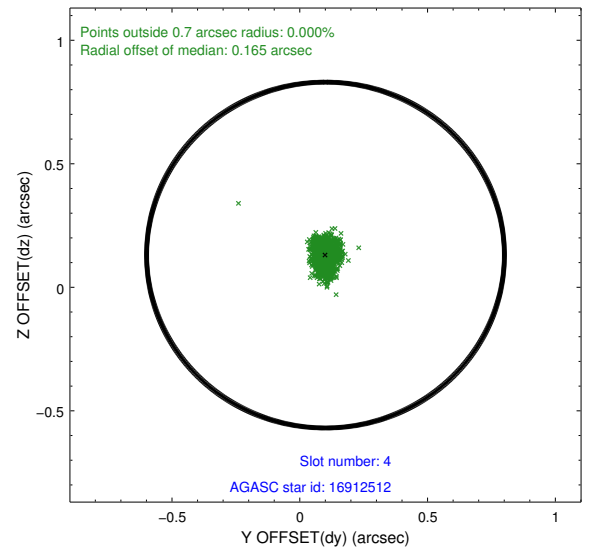
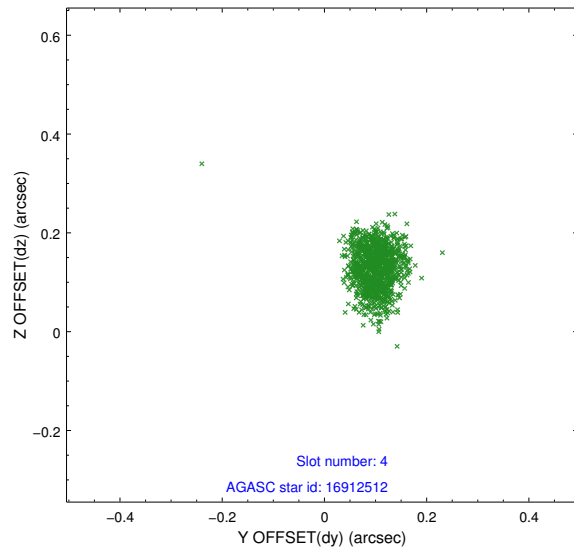


## 2.4 Star Slots

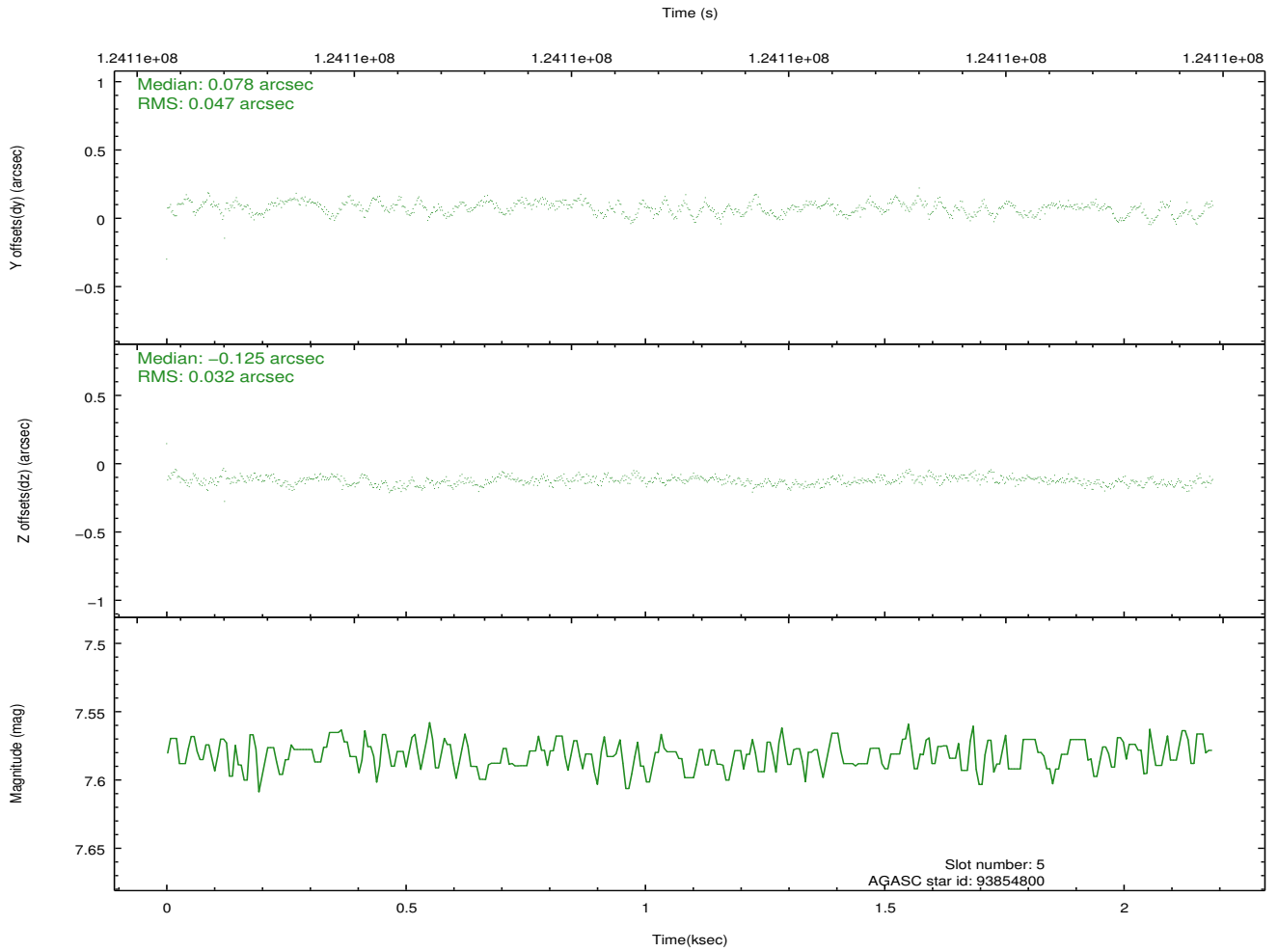
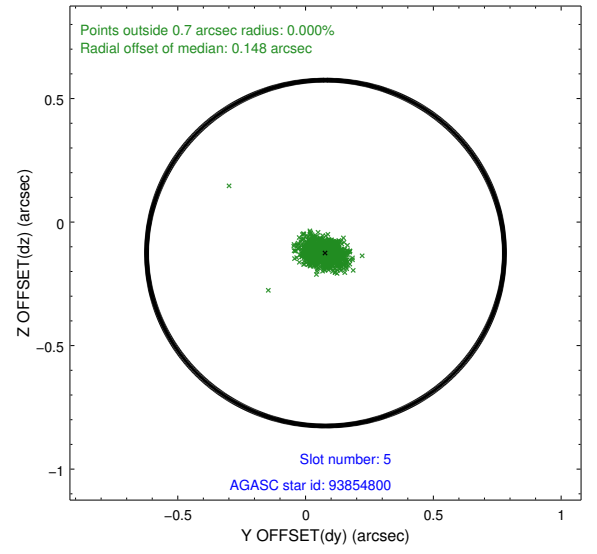
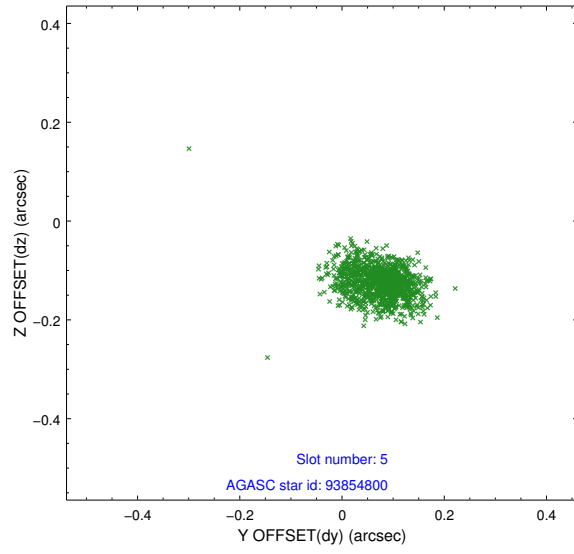
### 2.4.1 Slot 3



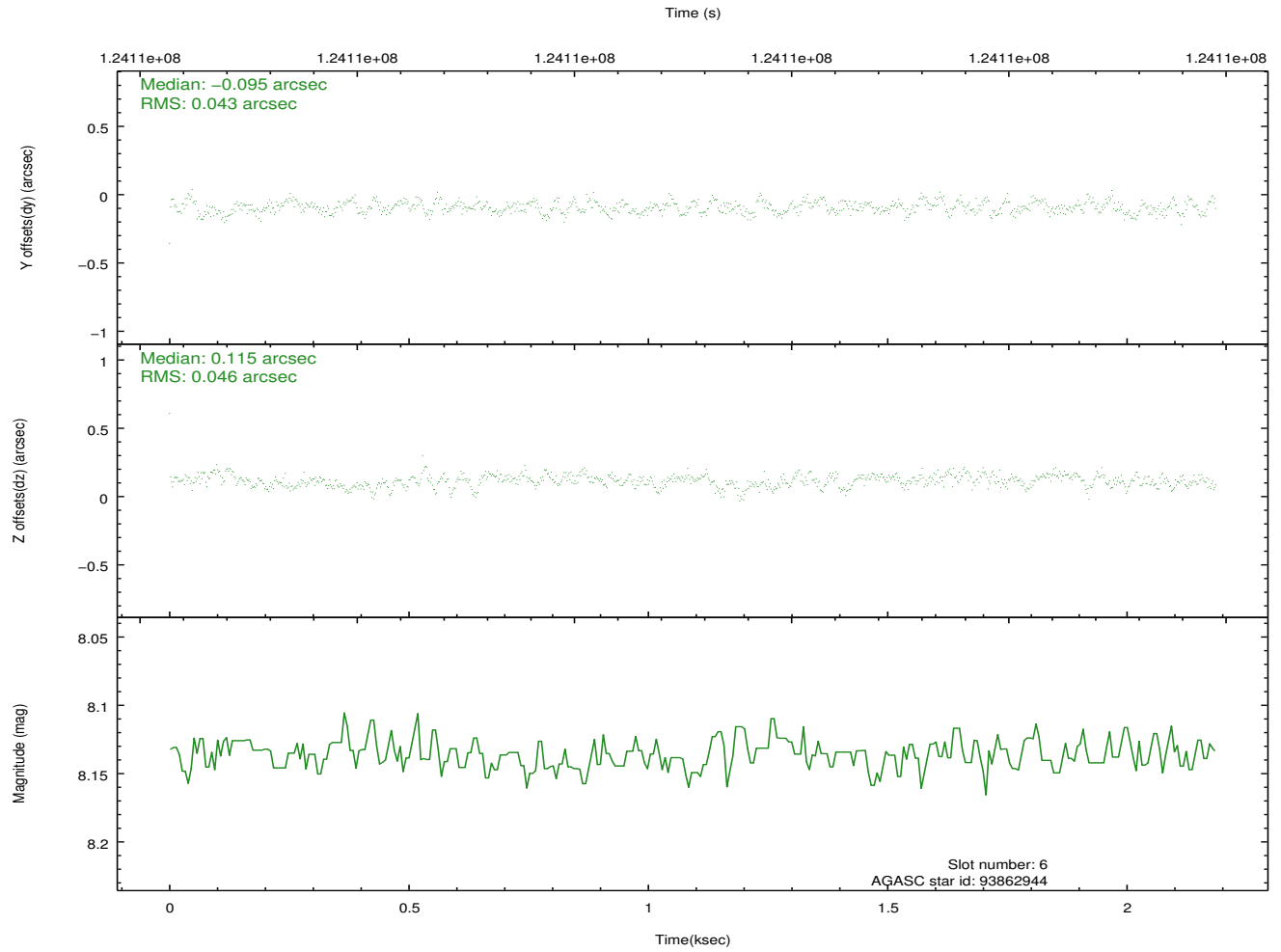
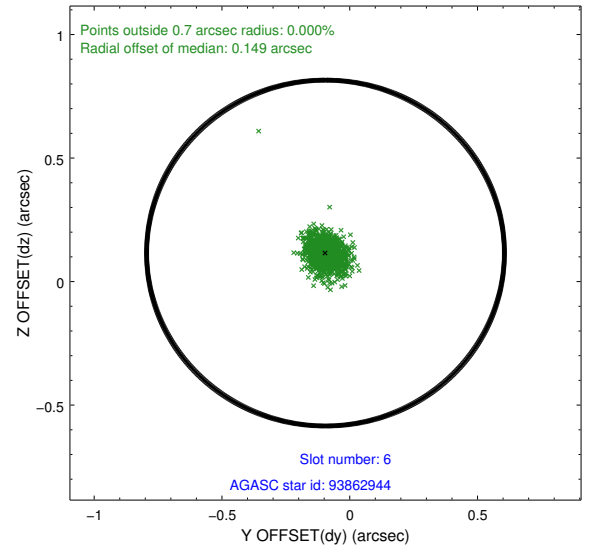
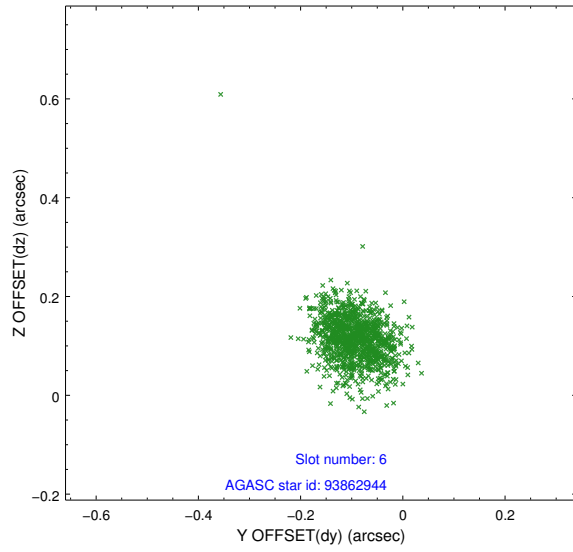
## 2.4.2 Slot 4



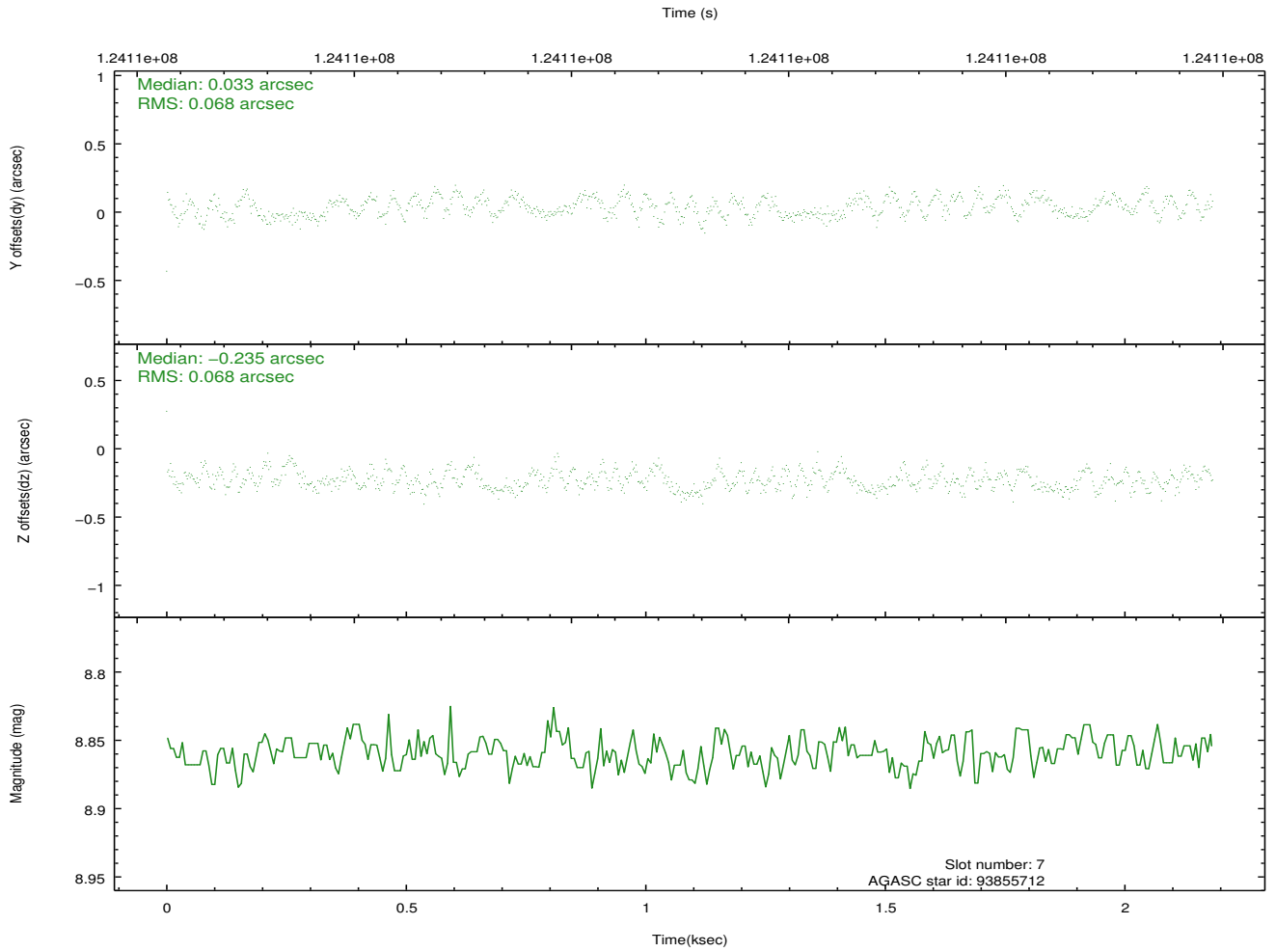
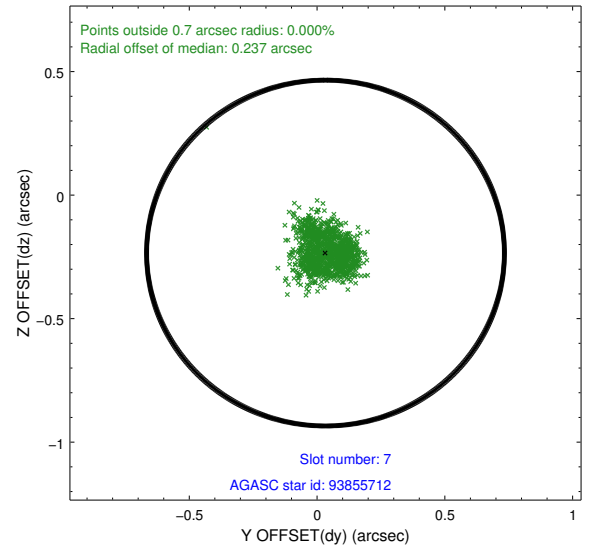
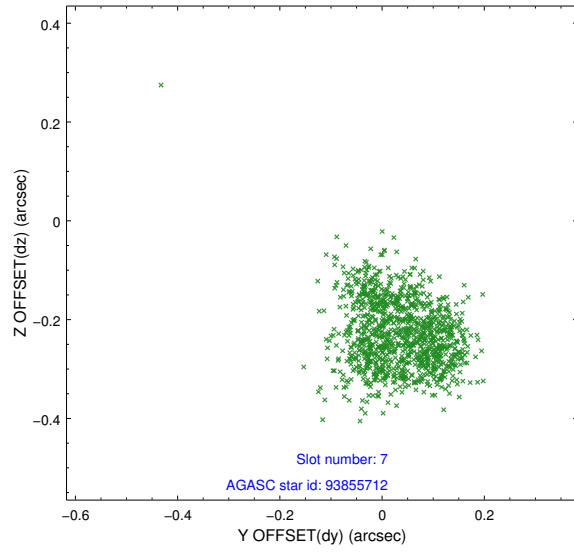
### 2.4.3 Slot 5



## 2.4.4 Slot 6

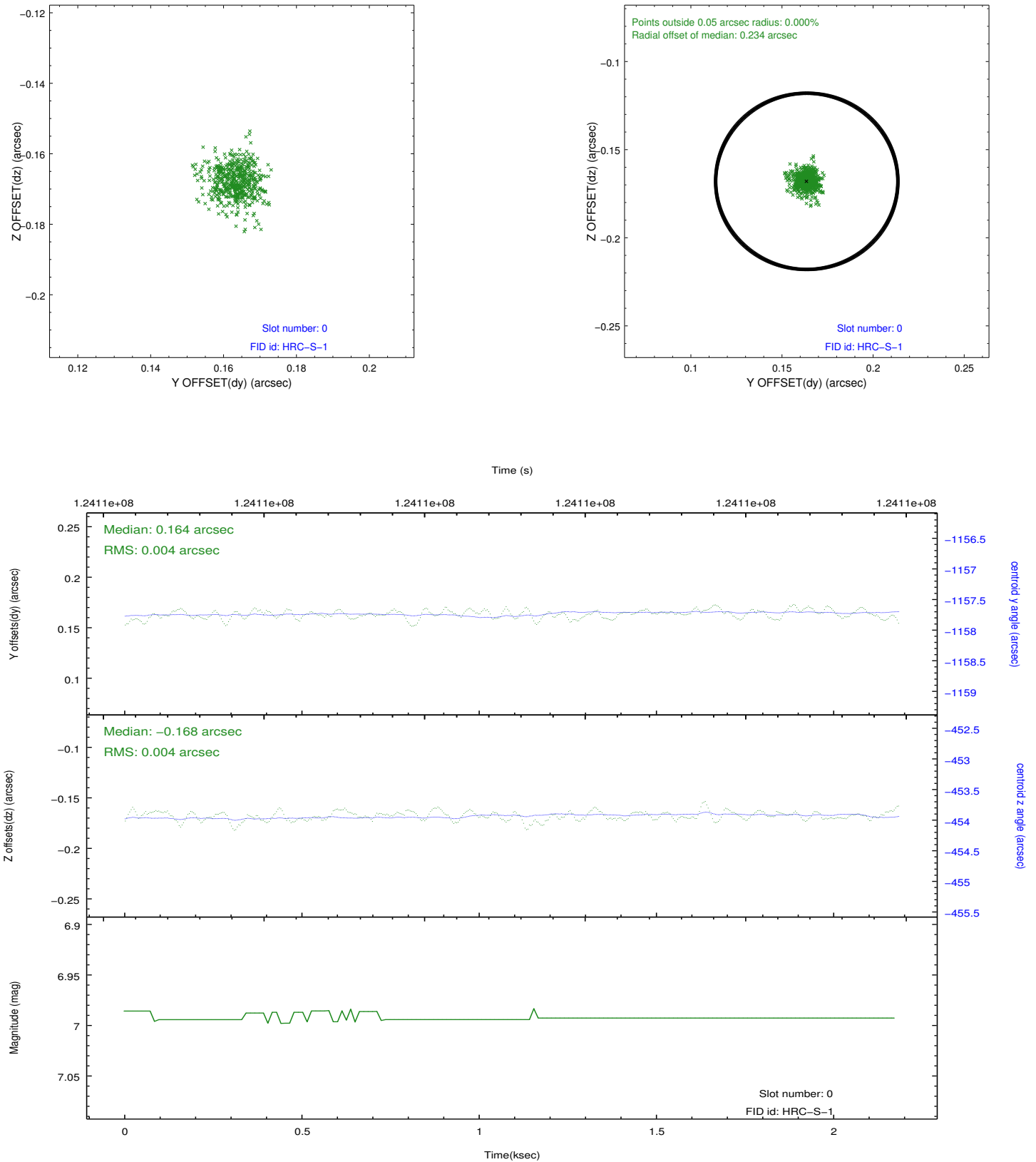


## 2.4.5 Slot 7

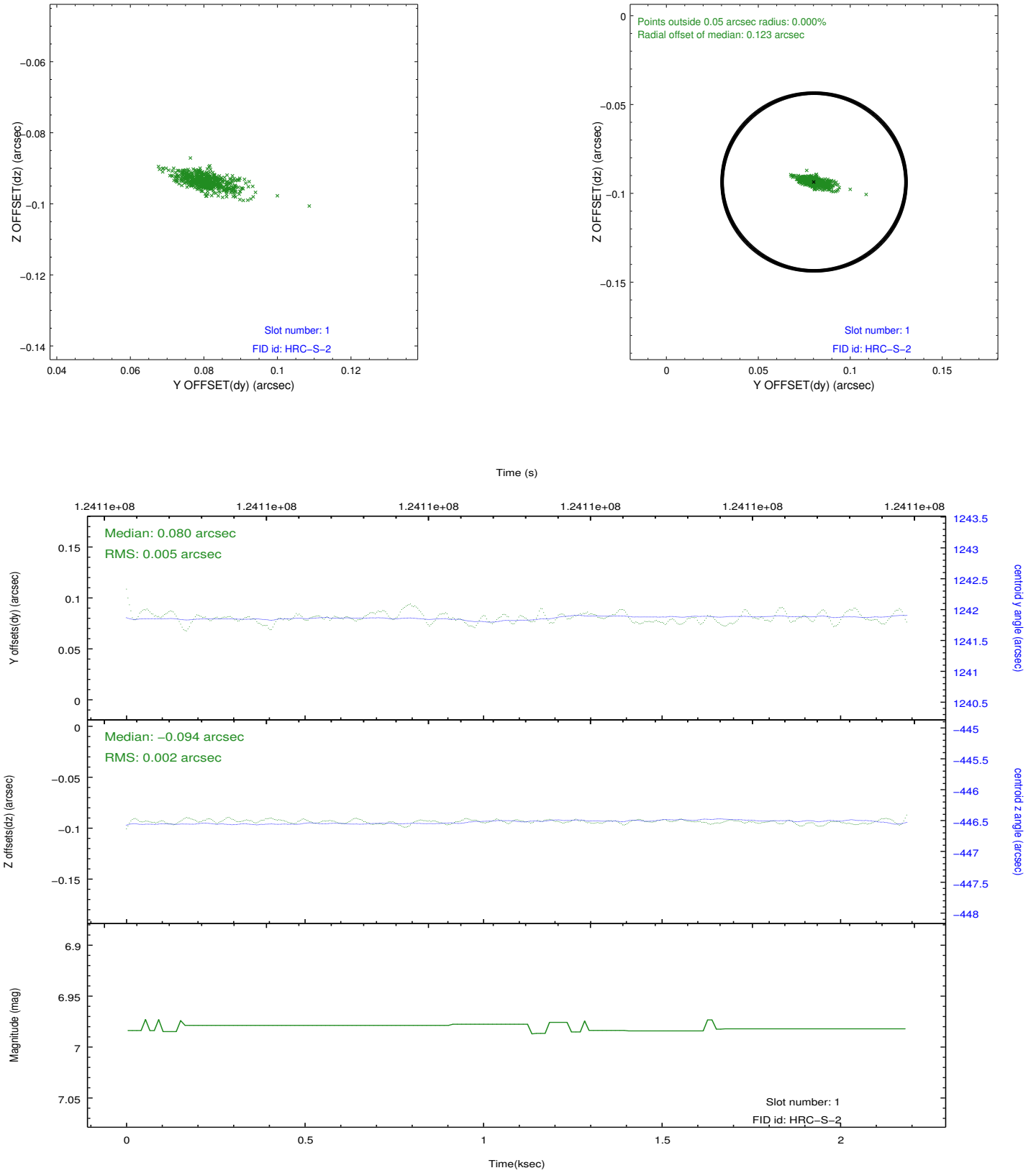


## 2.5 FID Slots

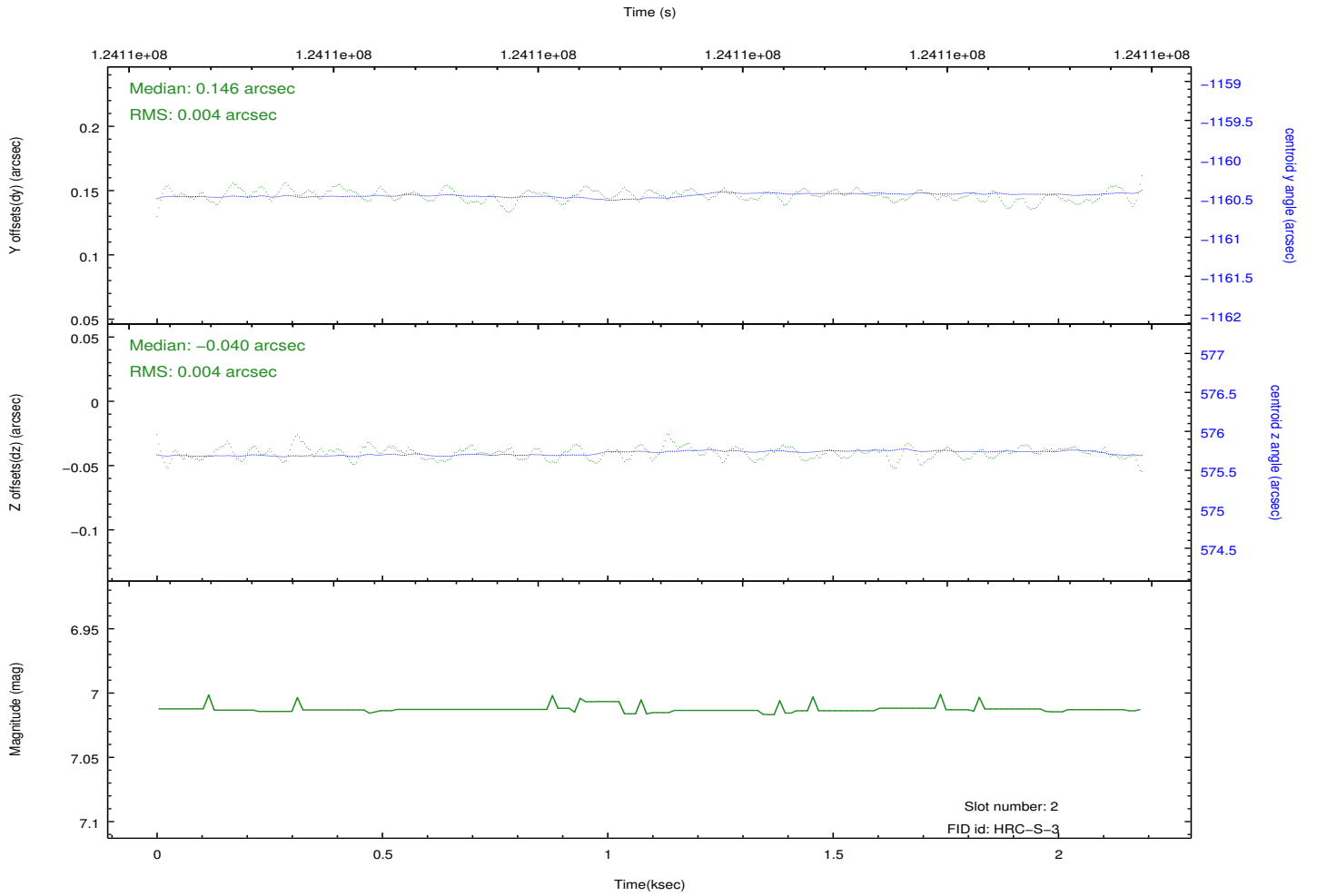
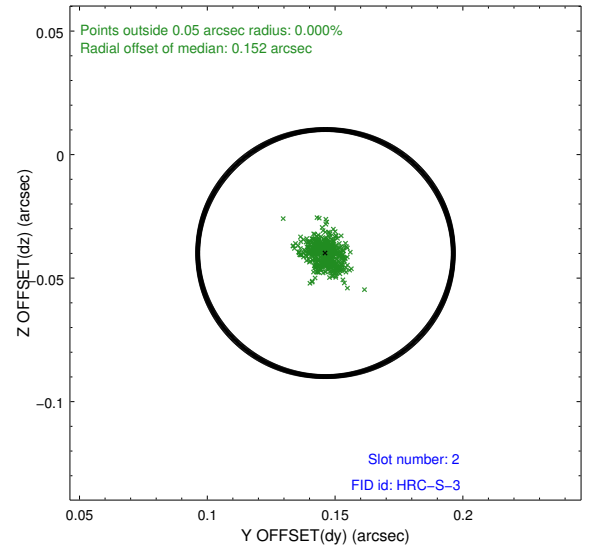
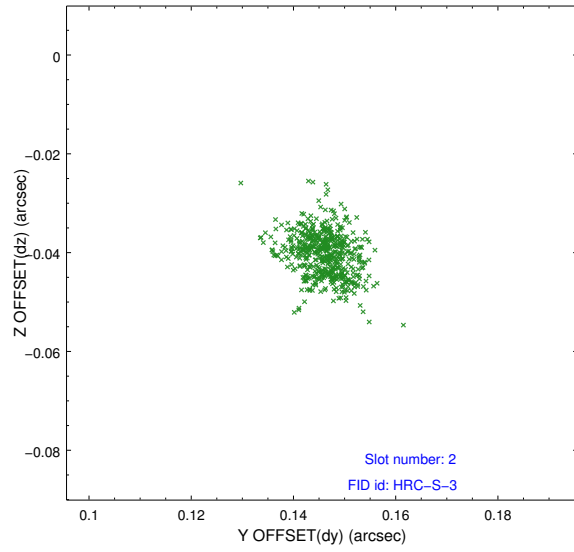
### 2.5.1 Slot 0



## 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)	2012.09.30
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.184

## A.2 Comments

Charge time for this ObsId remains at previous value of 2.184 ks although with the current processing the charge time would have been 2.14 ksec. Window constraint met.