

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 1871 - L2 Version 6  
Chandra X-Ray Center

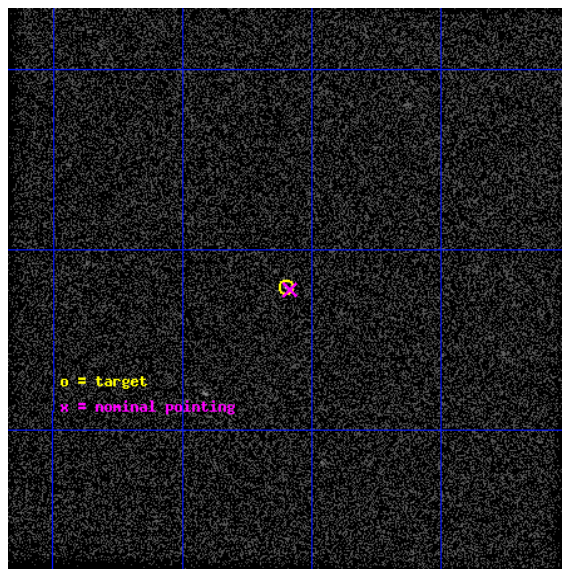
L2 Processing Date : Sep 24 2012

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# 1 Front

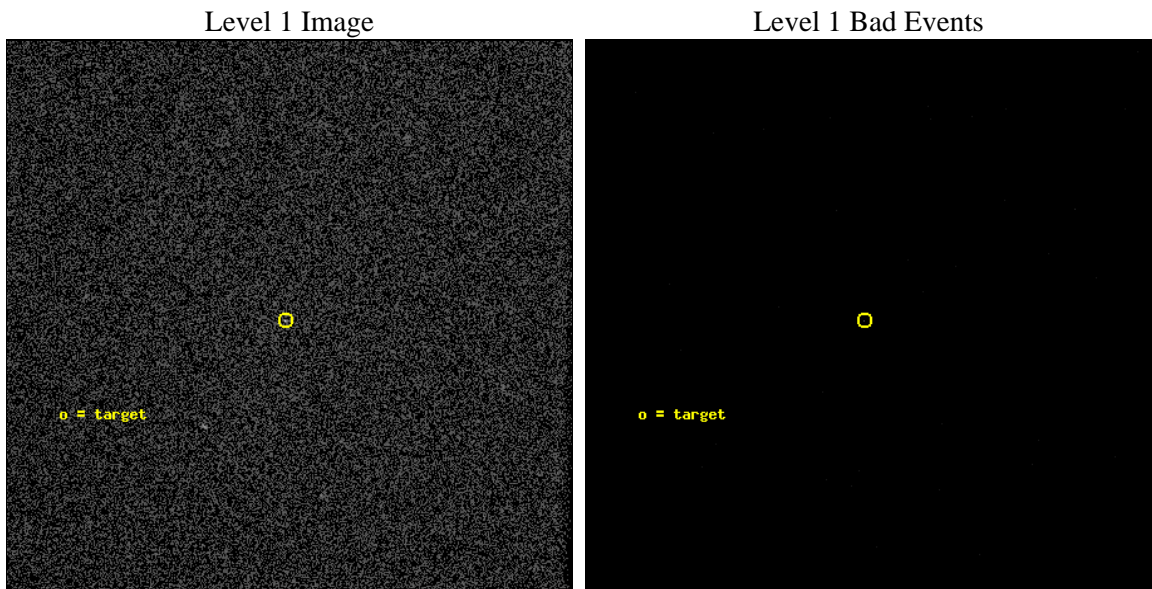
seq_num	200099	Sequence number
obs_id	1871	Observation id
title	INTRINSIC X-RAY EMISSION FROM M-TYPE GIANTS	Proposal title
observer	Dr Matthias Huensch	Principal investigator
object	HR 5512	Source name
ra_targ	221.525	Observer's specified target RA [deg]
dec_targ	15.131667	Observer's specified target Dec [deg]
ra_nom	221.52083288832	Nominal RA [deg]
dec_nom	15.129830904885	Nominal Dec [deg]
roll_nom	226.19051105405	Nominal Roll [deg]
revision	6	Processing version of data
ontime	2980.9563662112	[s]
livetime	2965.8276441588	Ontime multiplied by DTCOR
l2events	76839	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	3000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	2980.9563662112	[s]
caldbver	4.5.1.1	&#160	l1events	118721	Number of level 1 events
date	2012-09-24T18:42:43	Date and time of file creation			
revision	6	Processing version of data			

### 2.1.3 Events

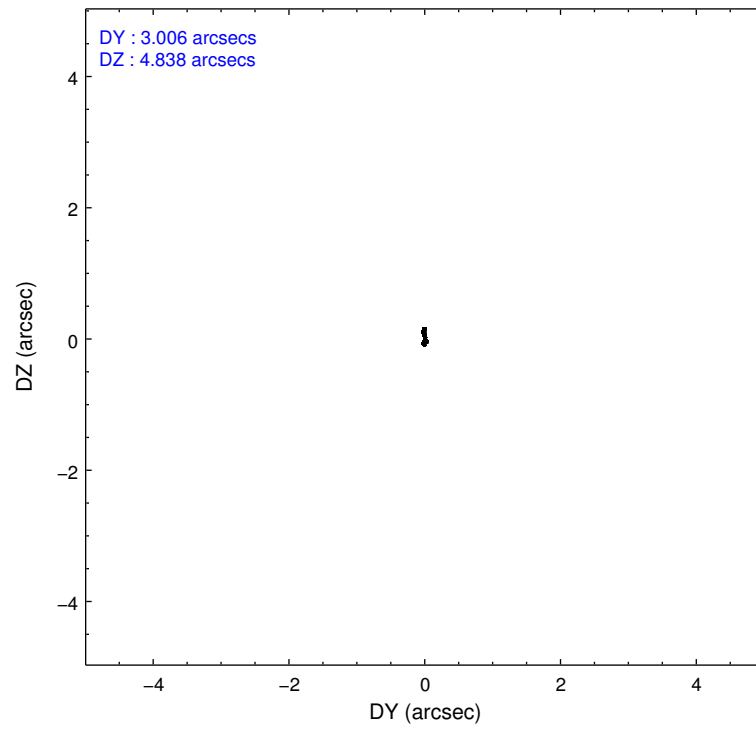
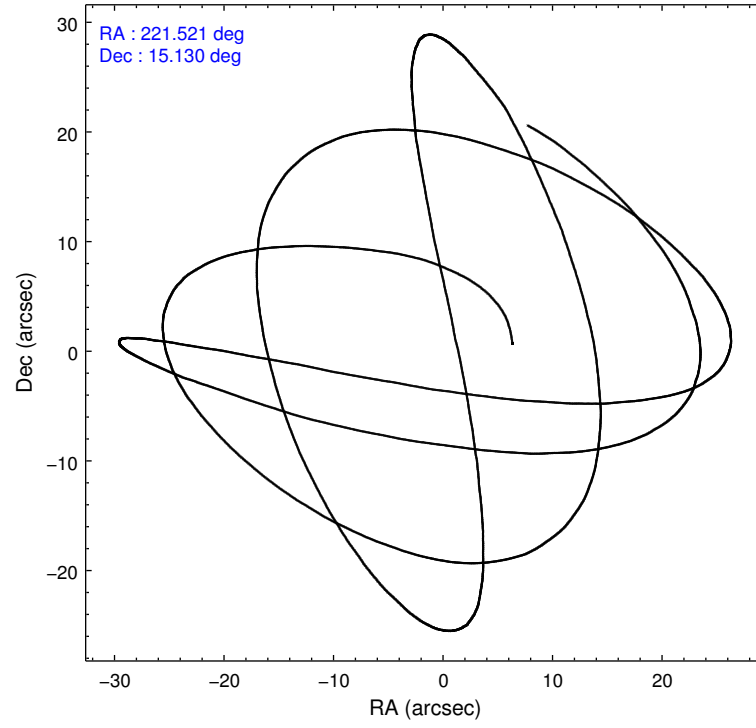
#### Level 1 Events

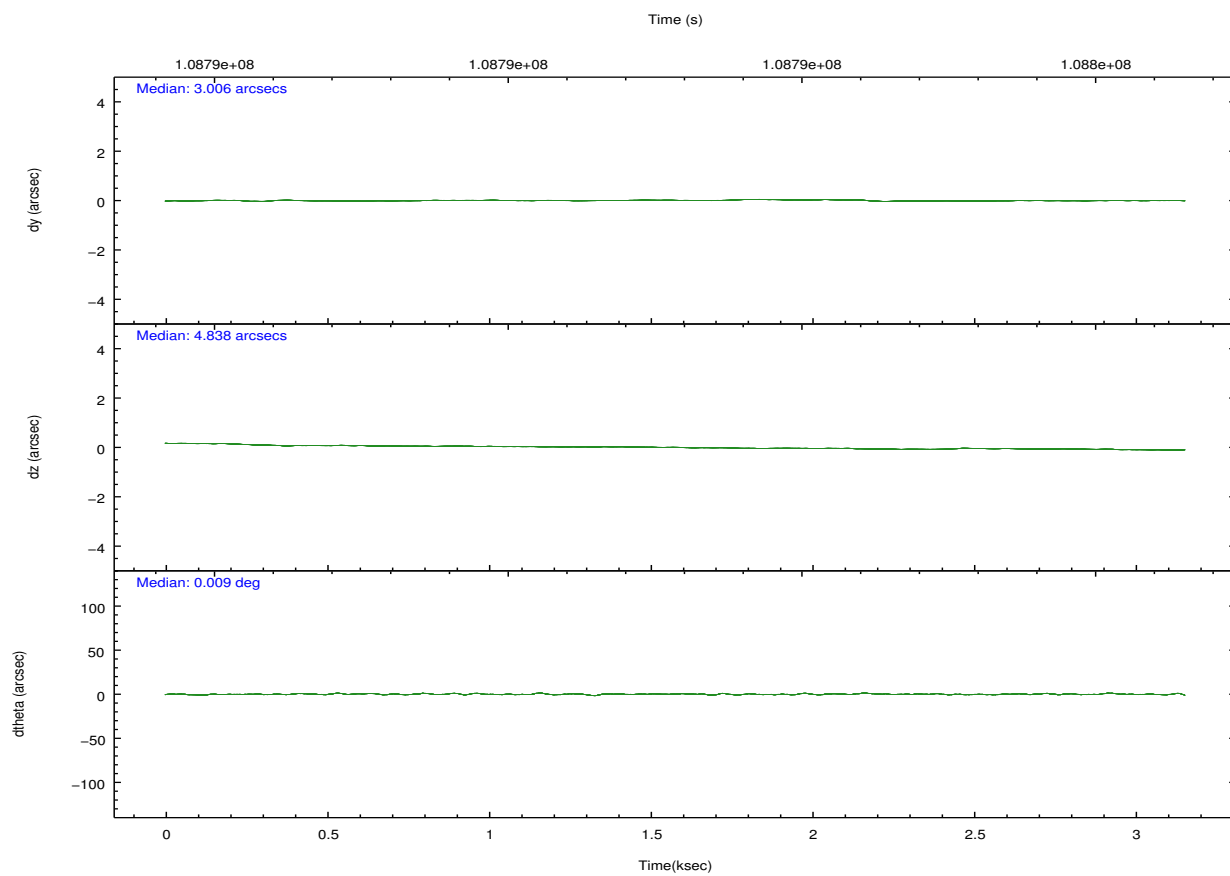
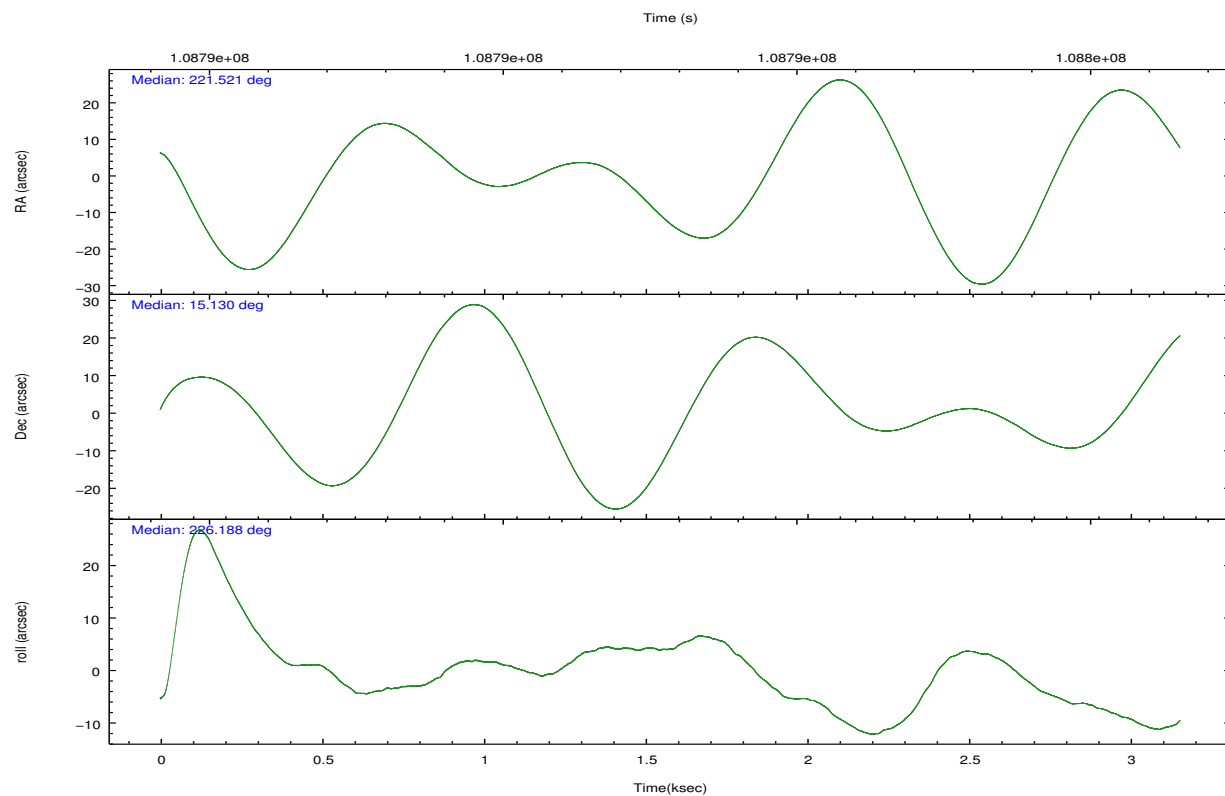
	<b>segment 0</b>
level 1 events	118721
rejected events	4195
rejected %	3%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	HRC	HRC	Obspar format version number	7	7
Detector	HRC-I	HRC-I	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	OBSERVING	OBSERVING			
Observation mode	POINTING	POINTING			
[deg] Pointing RA	221.527113	221.52083288832			
[deg] Pointing Dec	15.156472	15.12983090488517			
[deg] Pointing Roll	226.284454	226.1905110540524			
[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)	108792143.184000	108791029.47153			
Observation start date	2001-06-13T04:01:19	2001-06-13T03:43:49			
[s] Observation end time (MET)	108795143.184000	108795714.74671			
Observation end date	2001-06-13T04:51:19	2001-06-13T05:01:54			

## 2.3 Aspect





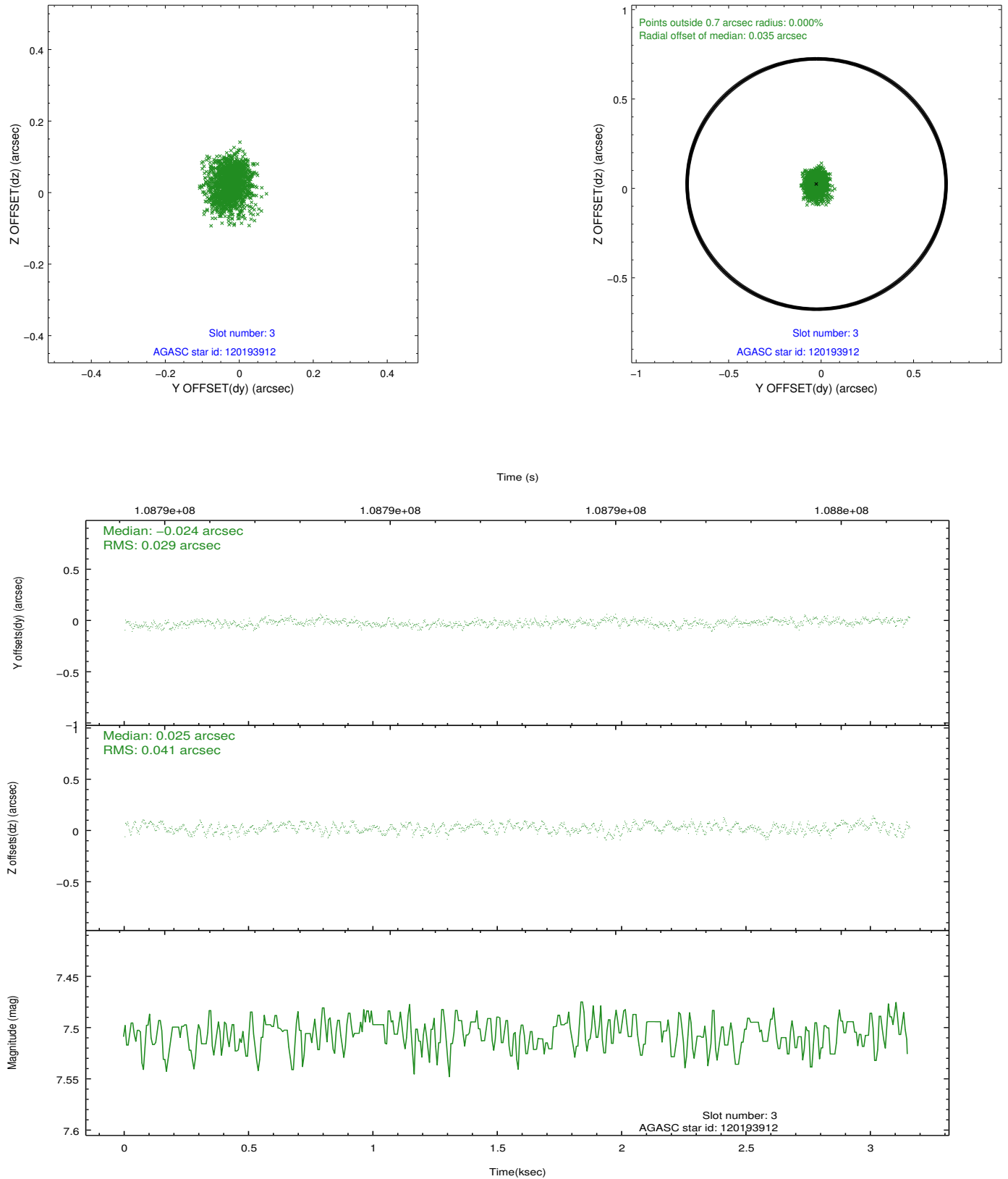
Slot Statistics

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	770	0.035	0.058	0.007	0.012	0.000000	0.000000	-758.45	-1292.61
1	FID	HRC-I-3	7.04	770	0.025	-0.104	0.007	0.011	0.000000	0.000000	-1187.93	1010.11
2	FID	HRC-I-4	6.98	770	0.054	-0.044	0.005	0.009	0.000000	0.000000	1282.83	1010.75
3	GUIDE	120193912	7.51	1540	-0.024	0.025	0.054	0.085	221.623453	14.855343	550.31	991.91
4	GUIDE	193727864	8.65	1538	-0.060	-0.010	0.067	0.109	221.624672	15.518983	-1178.25	-656.30
5	GUIDE	193593752	8.77	1540	-0.043	-0.092	0.090	0.139	221.299595	15.807237	-1151.07	-2189.13
6	GUIDE	120193952	8.77	1539	0.129	0.082	0.065	0.105	221.453349	14.642271	1513.47	1092.66
7	OMITTED		0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00

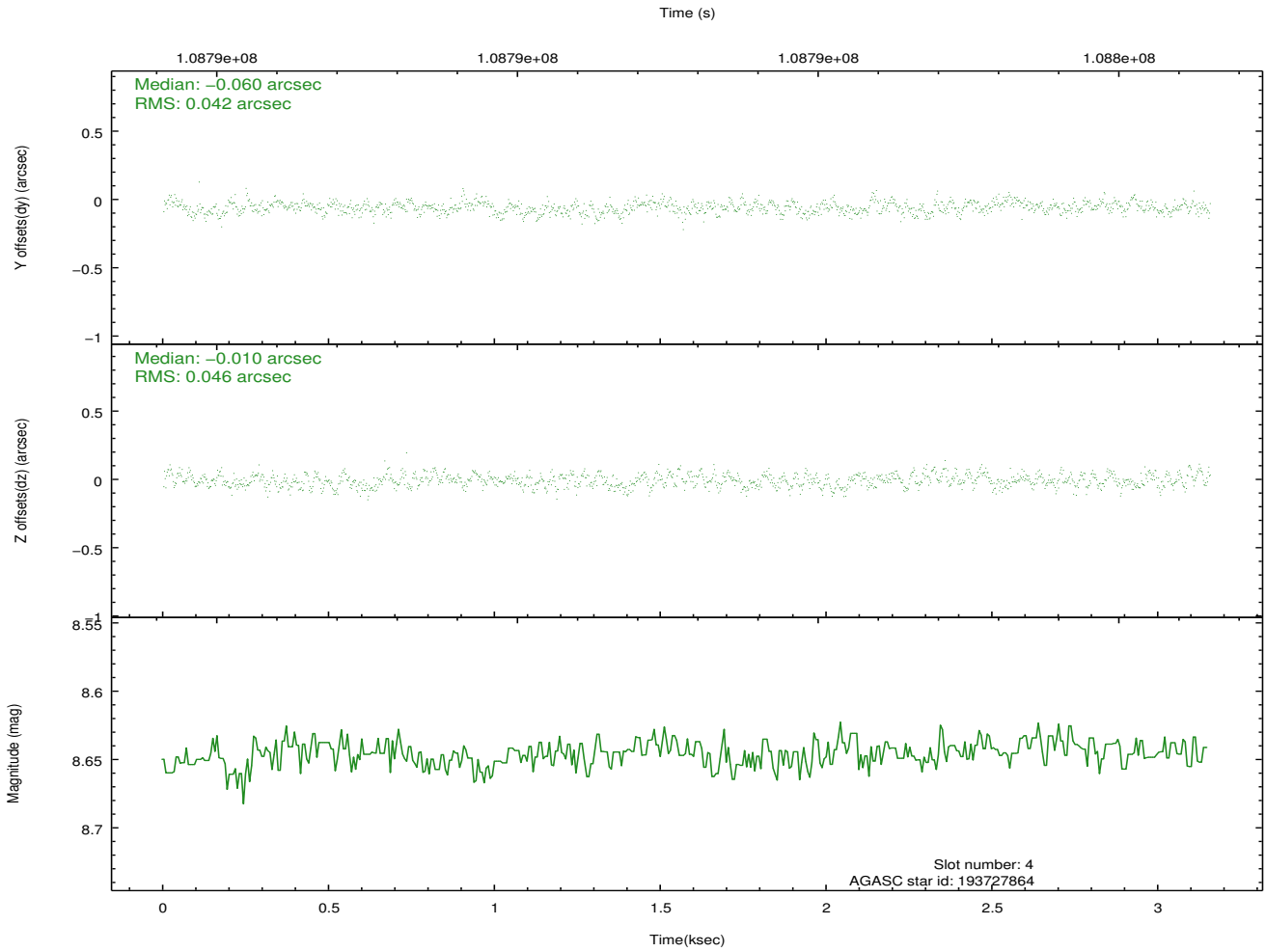
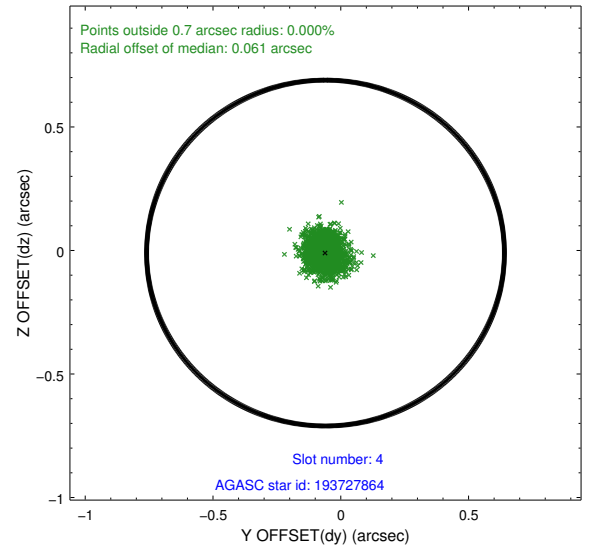
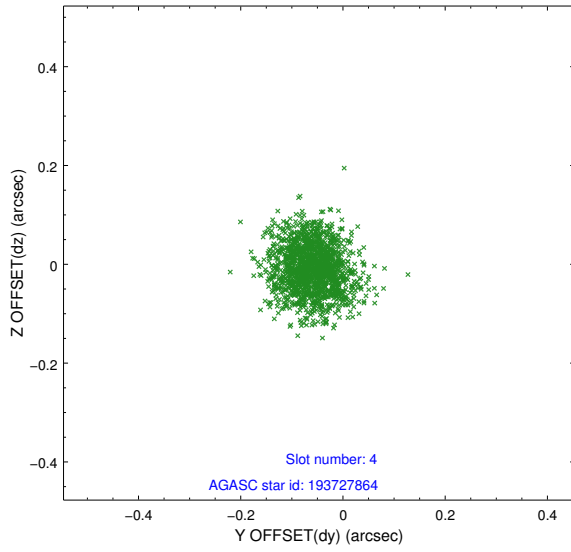


## 2.4 Star Slots

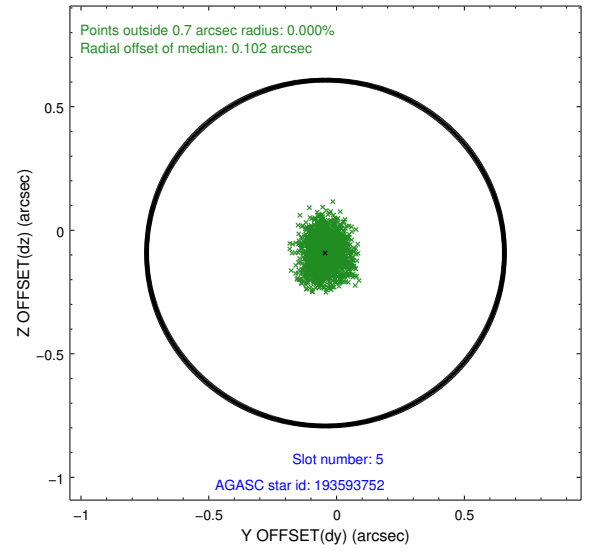
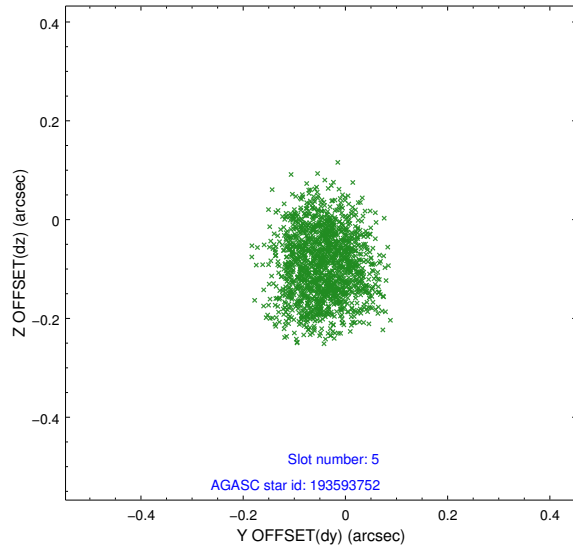
### 2.4.1 Slot 3



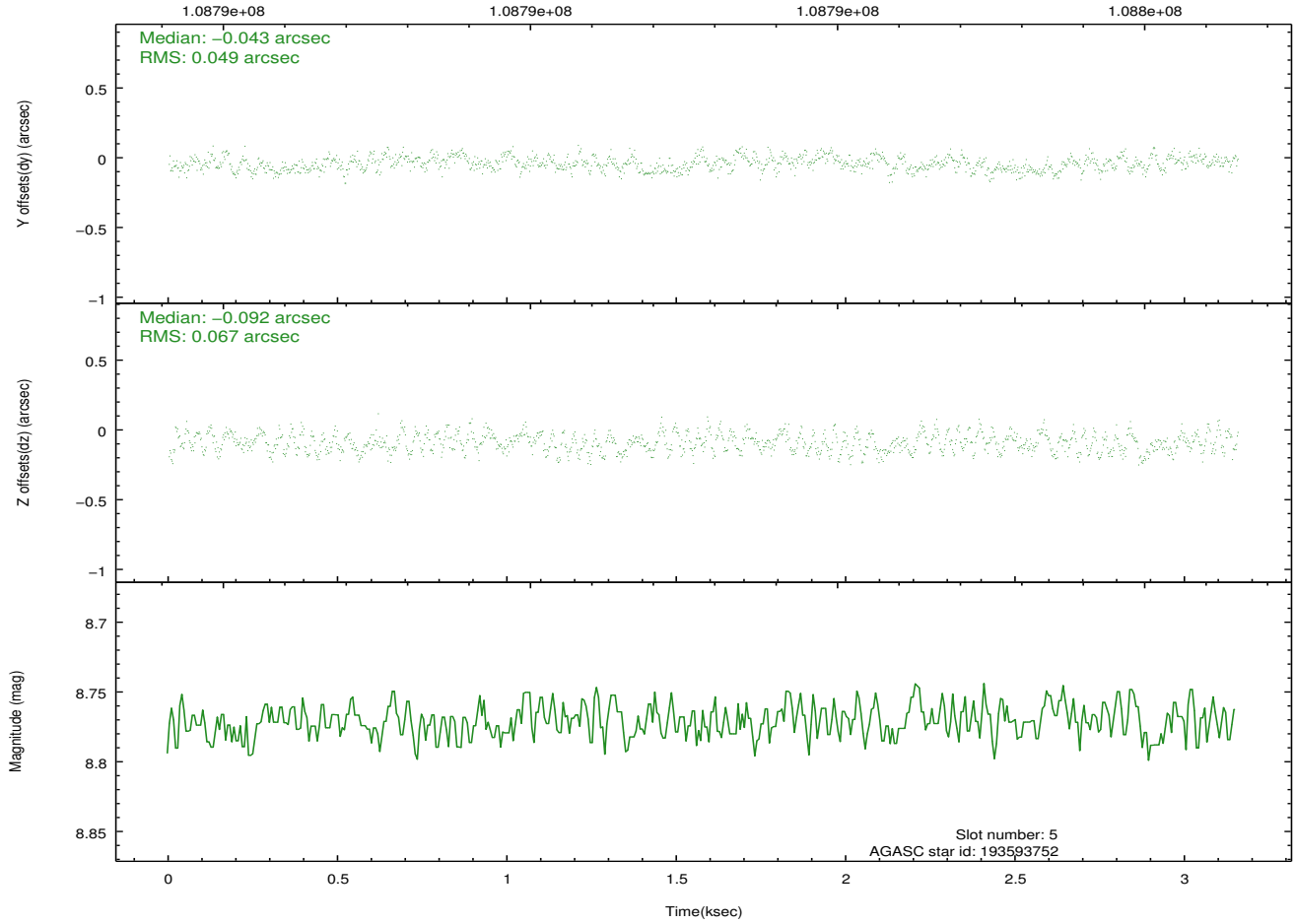
## 2.4.2 Slot 4



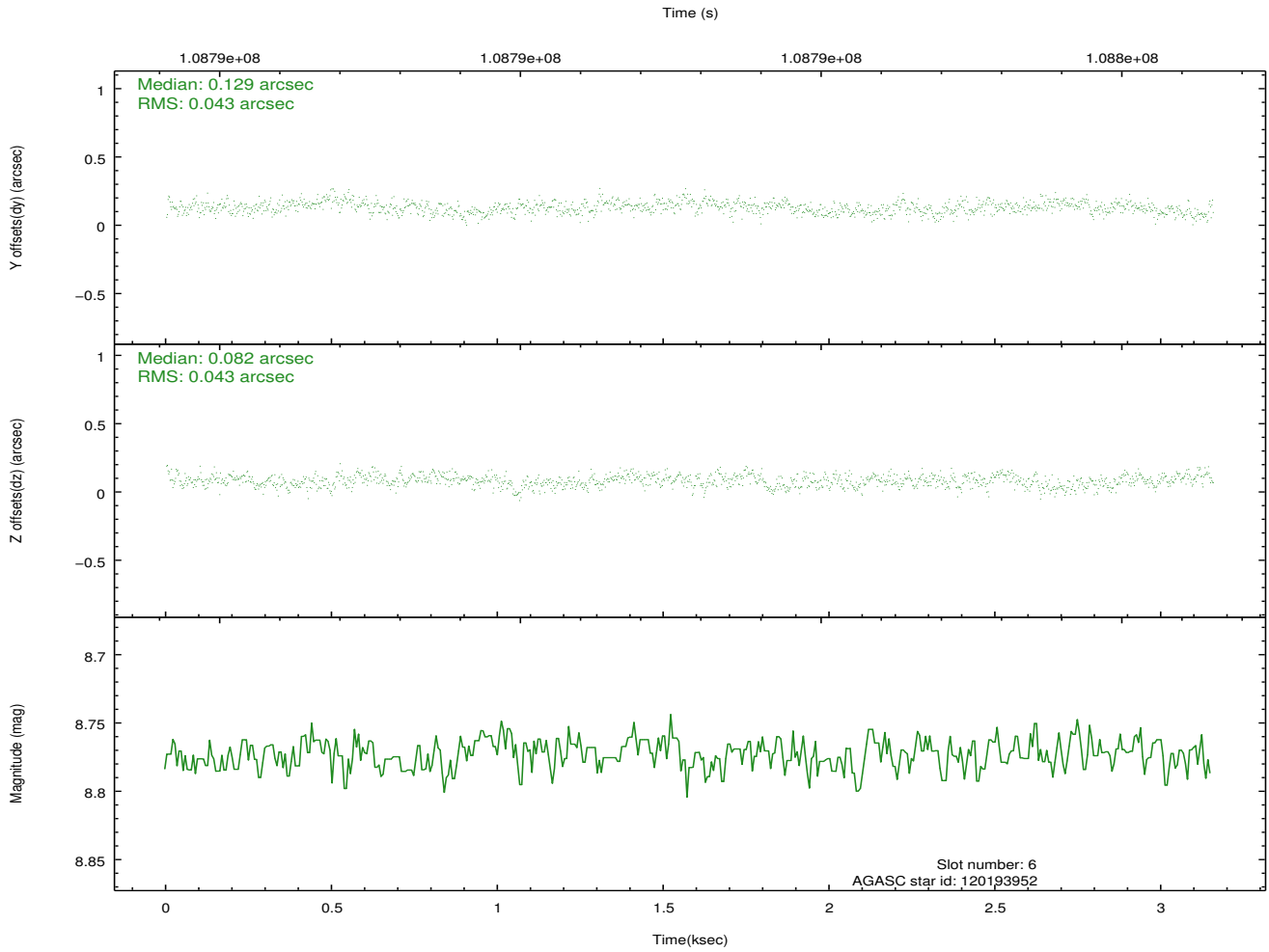
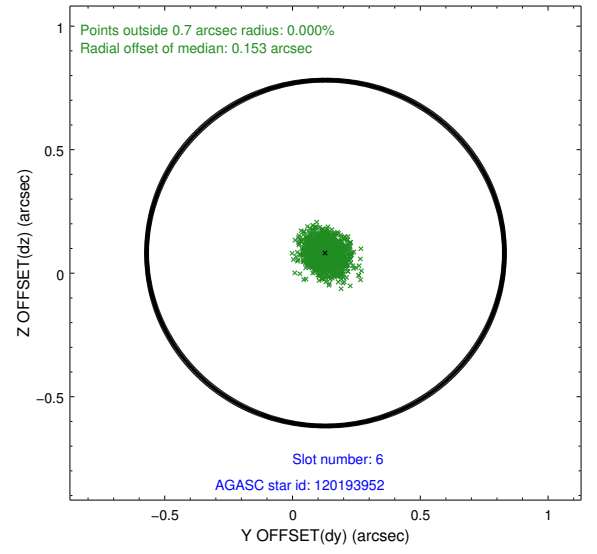
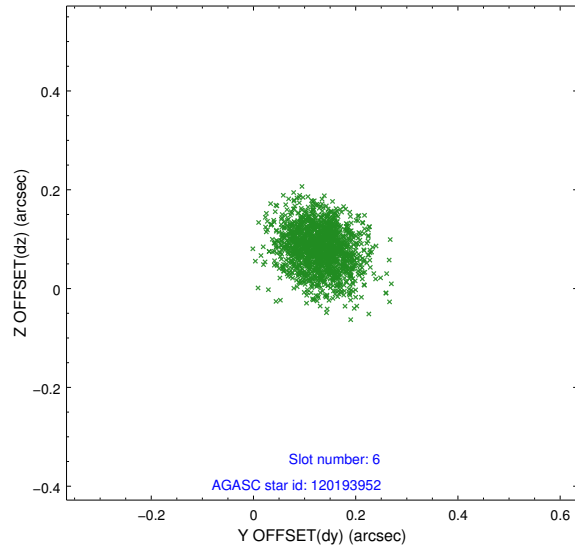
### 2.4.3 Slot 5



Time (s)

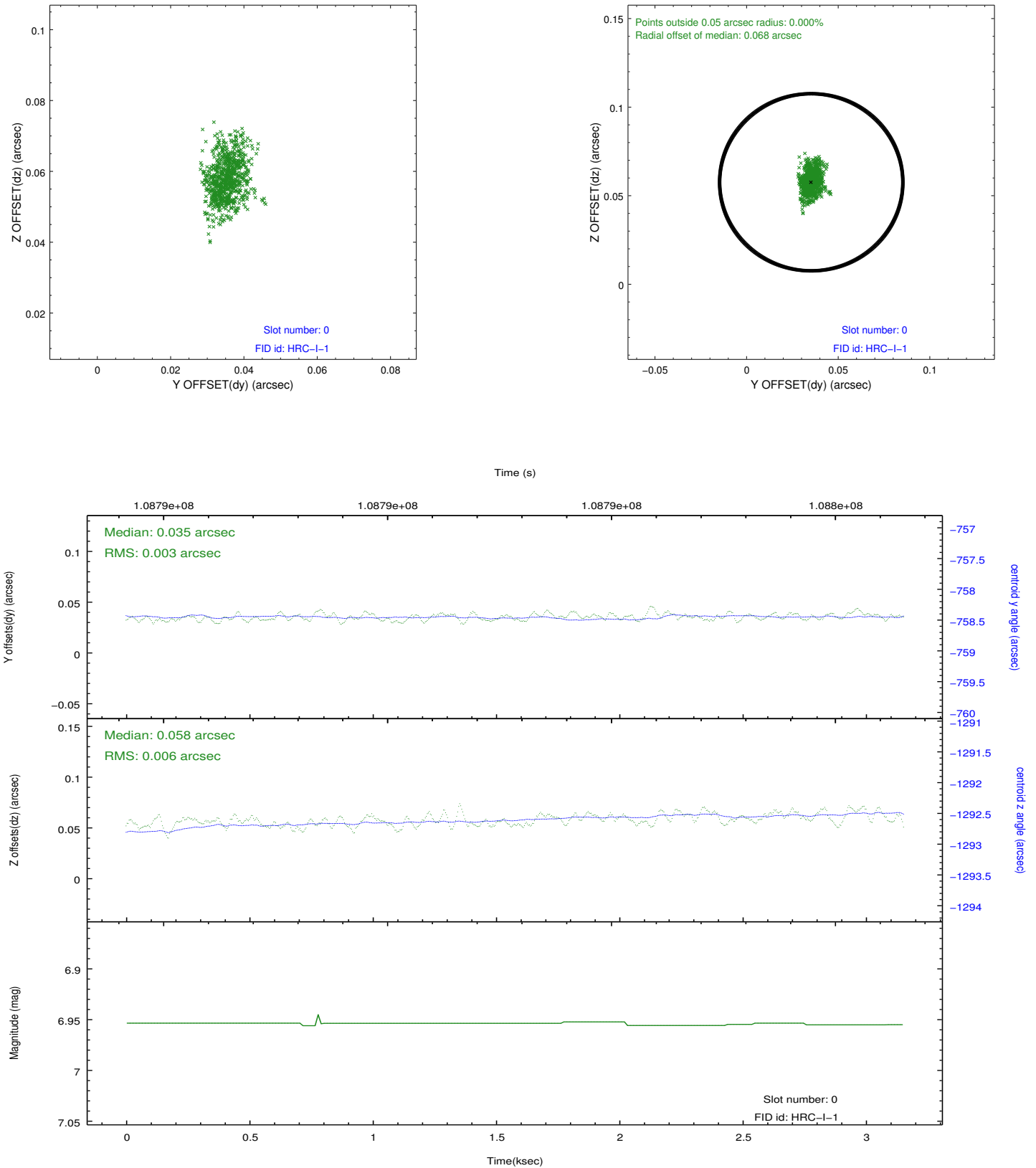


## 2.4.4 Slot 6

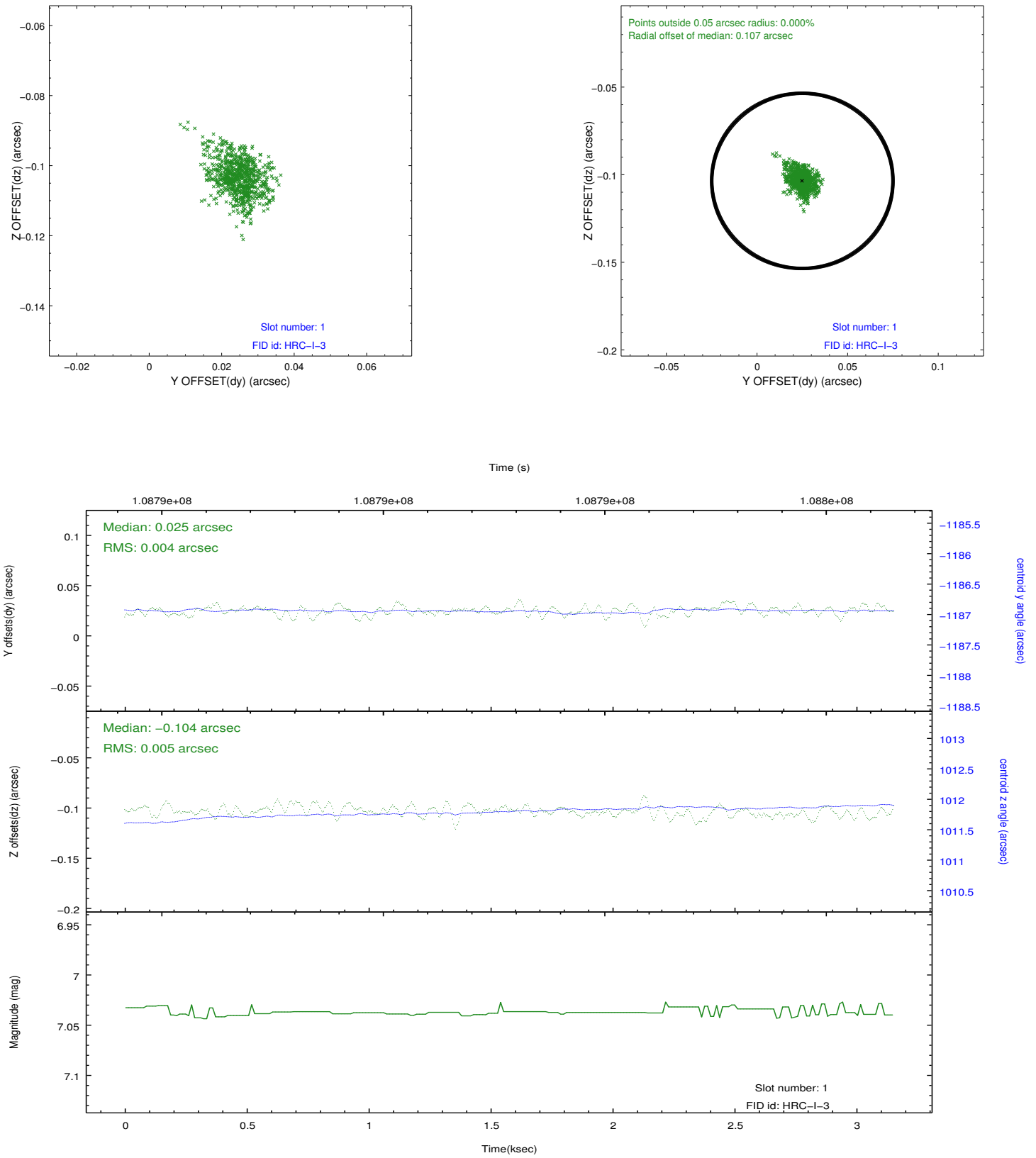


## 2.5 FID Slots

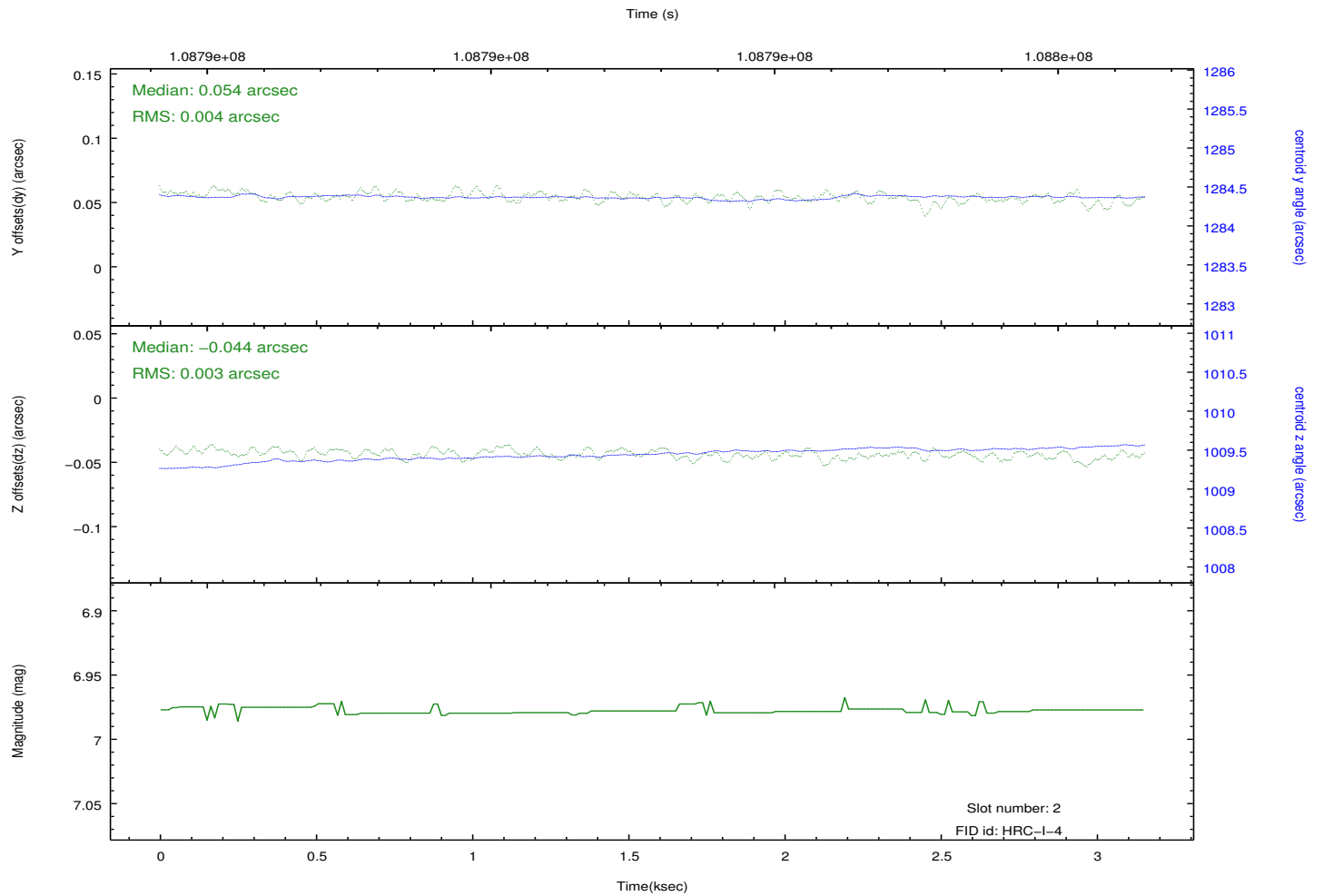
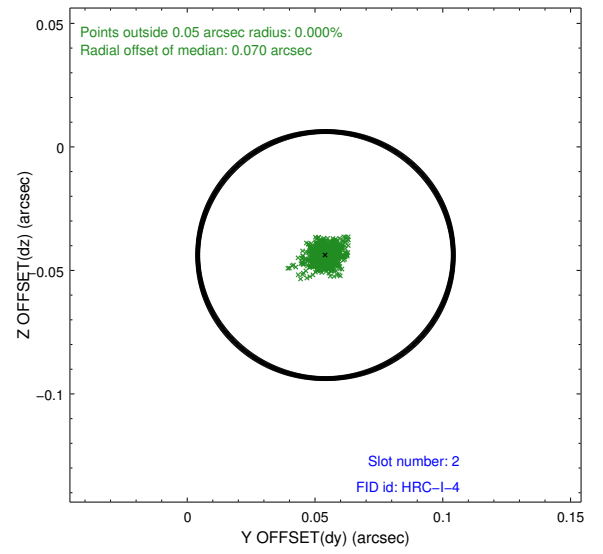
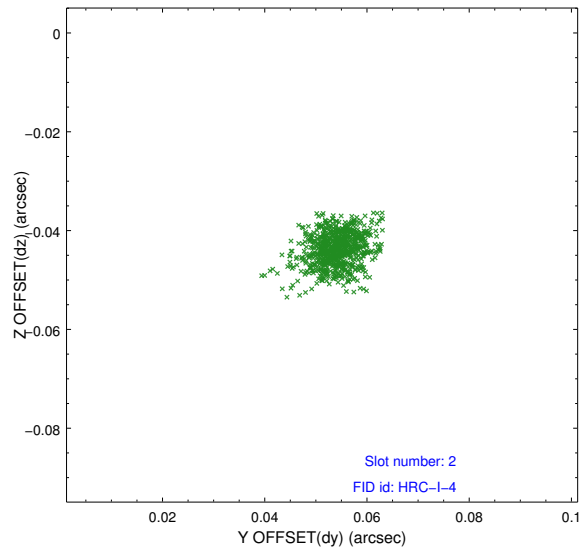
### 2.5.1 Slot 0



## 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)	2012.09.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.98

### A.2 Comments

The guide star in slot 7 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this guide star from the solution.