

# V&V Reference Report

## L2 ASCDS Version : 8.5

Observation 5115 - L2 Version 3  
Chandra X-Ray Center

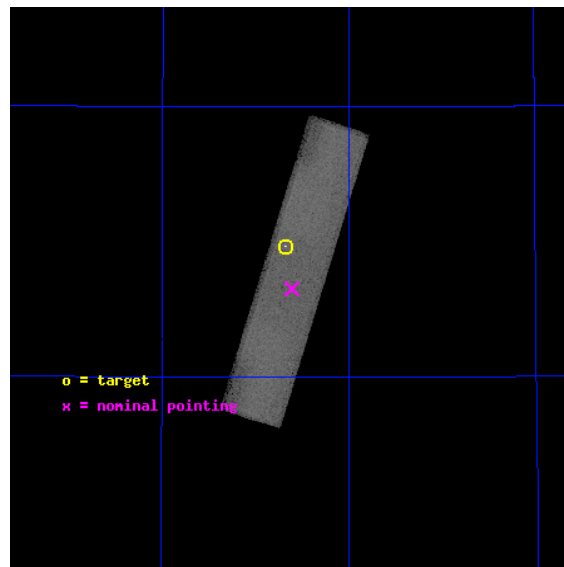
L2 Processing Date : Mar 7 2013

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# 1 Front

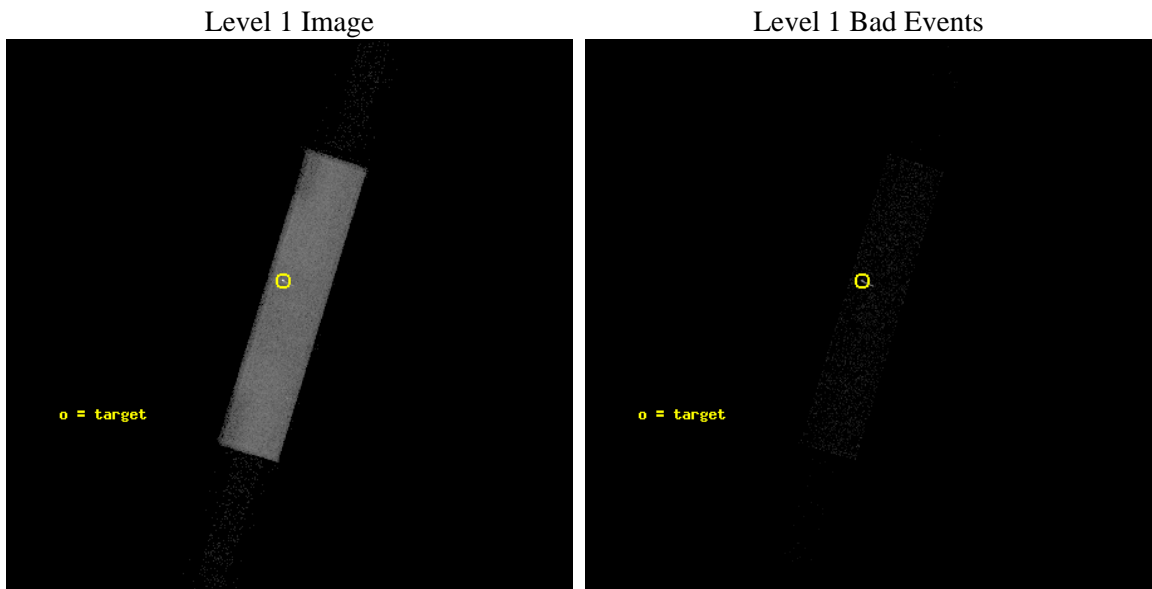
seq_num	290388	Sequence number
obs_id	5115	Observation id
title	AO5B Calibration Observations to Monitor the Spatial Variations in the HRC-S Gain	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.15246193112	Nominal RA [deg]
dec_nom	45.663969462313	Nominal Dec [deg]
roll_nom	287.06292656085	Nominal Roll [deg]
revision	3	Processing version of data
ontime	1050.8812972307	[s]
livetime	922.35897190716	Ontime multiplied by DTCOR
l2events	137271	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	900.000000	[s] Scheduled observation exposure time
ascdsver	8.5	Processing system revision	ontime	1050.8812972307	[s]
caldbver	4.5.4	&#160	l1events	188992	Number of level 1 events
date	2012-12-12T00:11:16	Date and time of file creation			
revision	3	Processing version of data			

2.1.3 Events

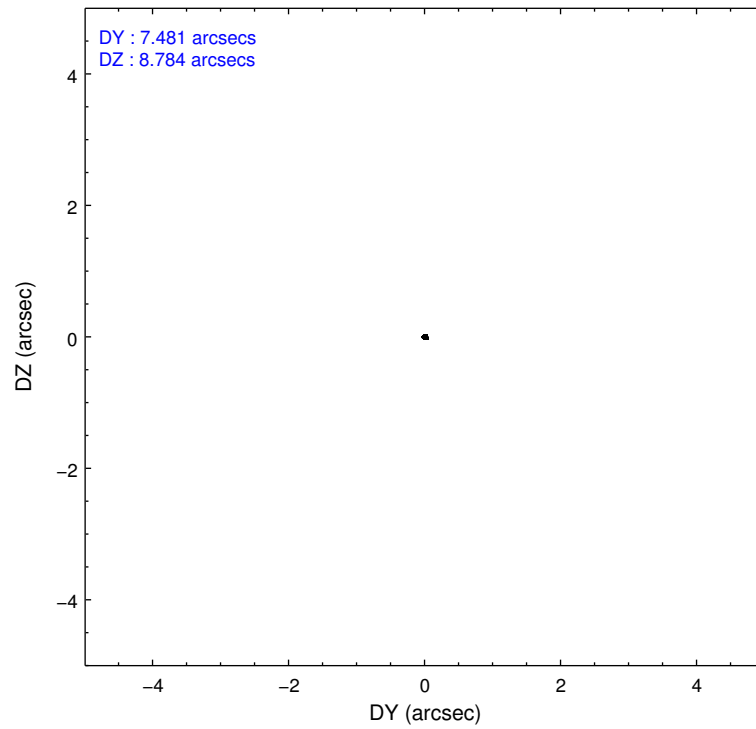
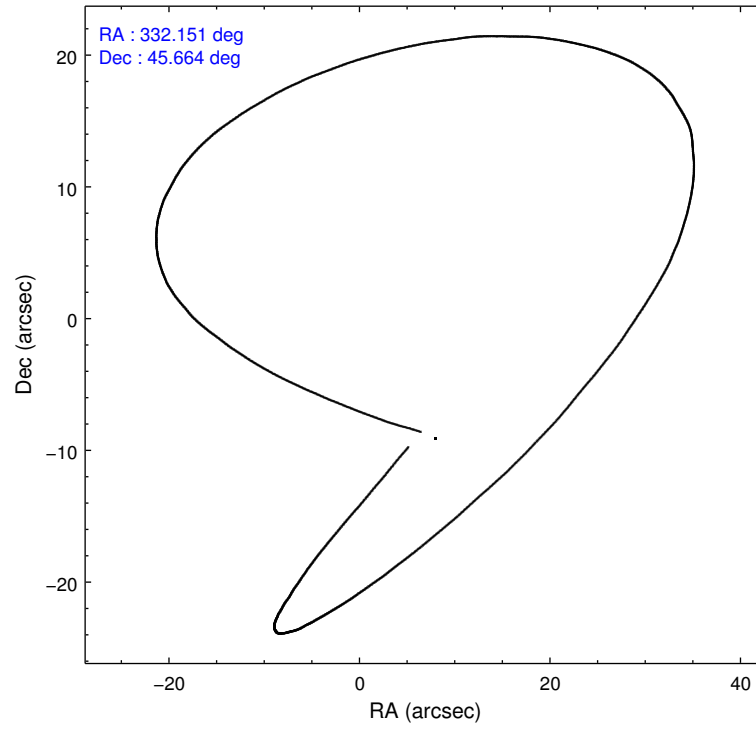
Level 1 Events

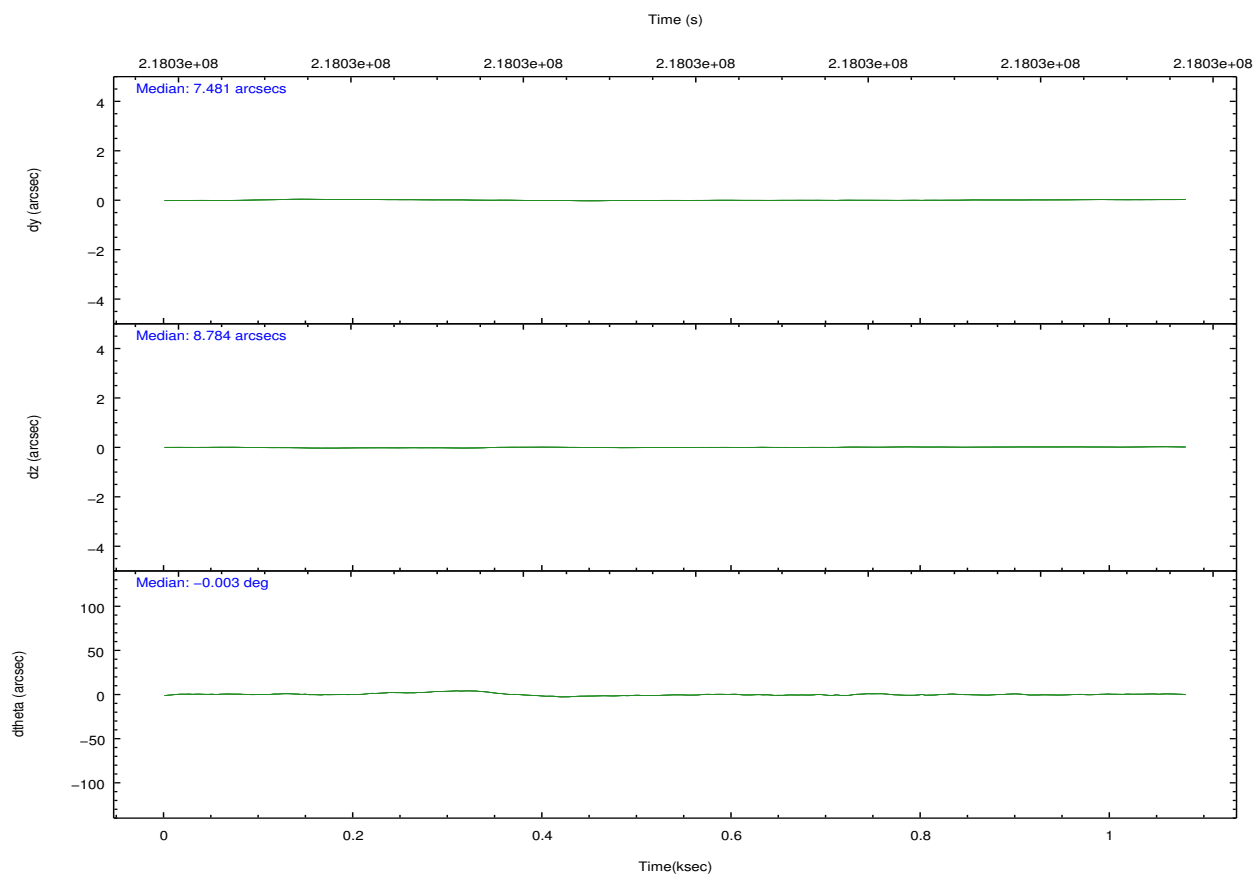
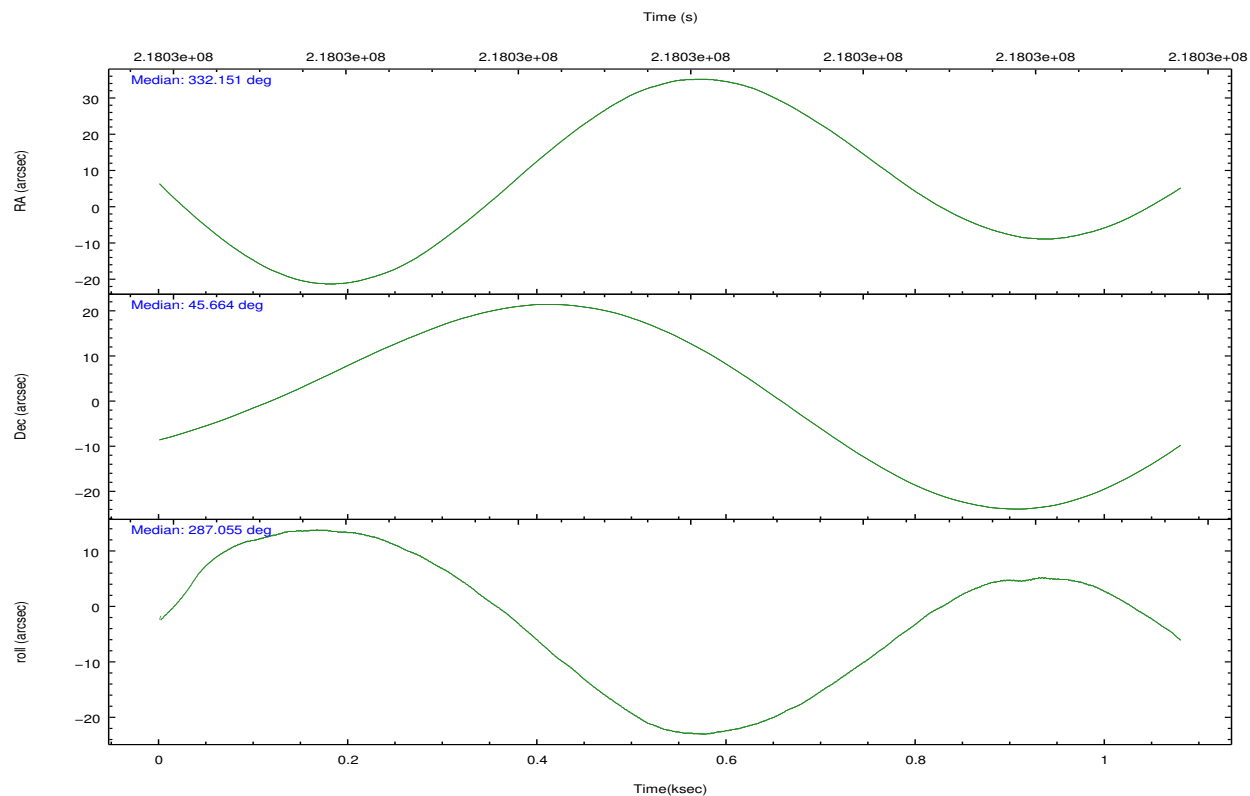
	segment 1	segment 2	segment 3
level 1 events	776	187420	796
rejected events	776	39106	796
rejected %	100%	20%	100%

## 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	332.122713	332.1524619311213			
[deg] Pointing Dec	45.682714	45.663969462313			
[deg] Pointing Roll	287.016843	287.0629265608464			
[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)	218027013.184000	218026637.06905			
Observation start date	2004-11-28T11:02:29	2004-11-28T10:57:17			
[s] Observation end time (MET)	218027913.184000	218028046.95662			
Observation end date	2004-11-28T11:17:29	2004-11-28T11:20:46			

## 2.3 Aspect





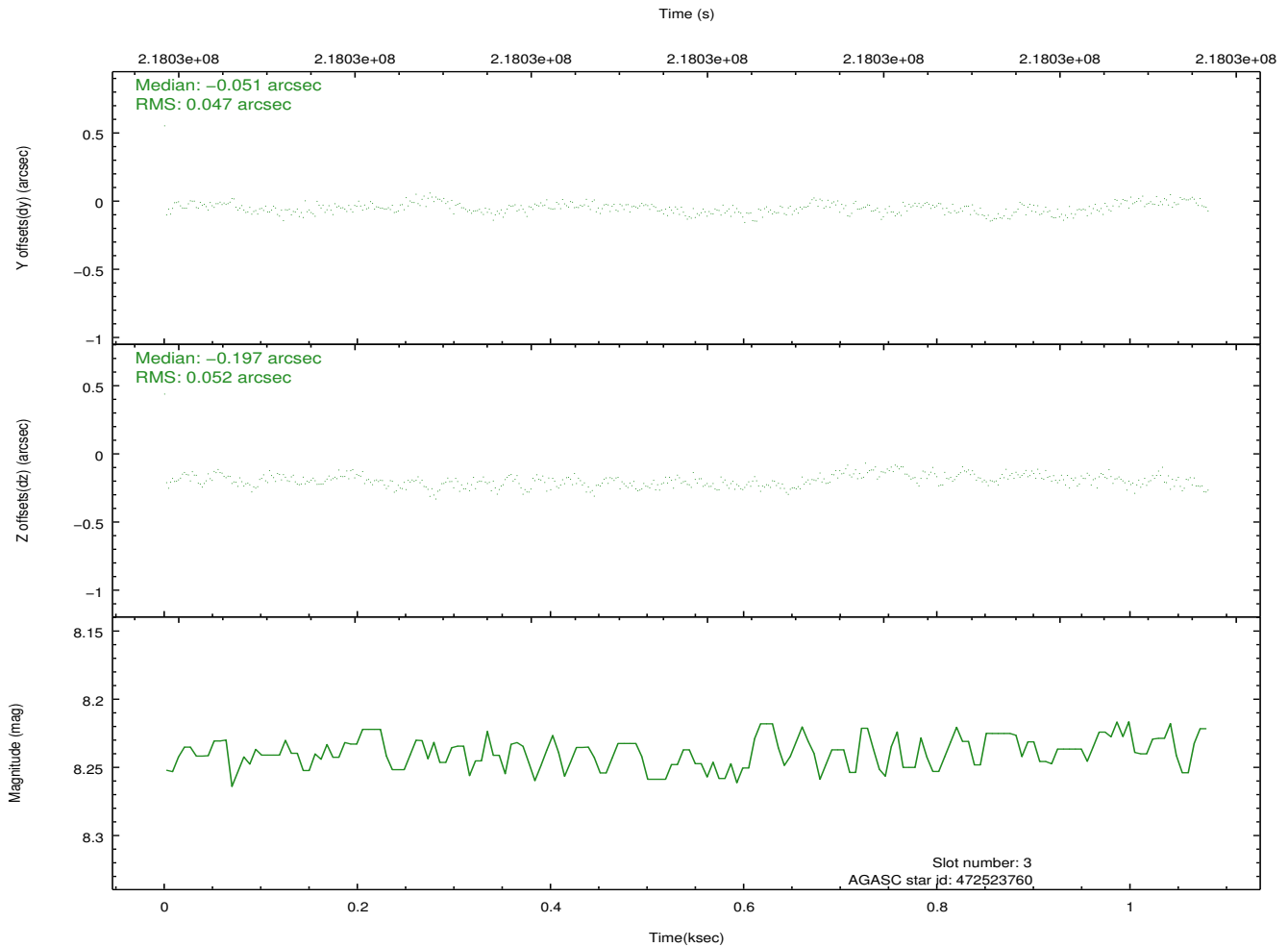
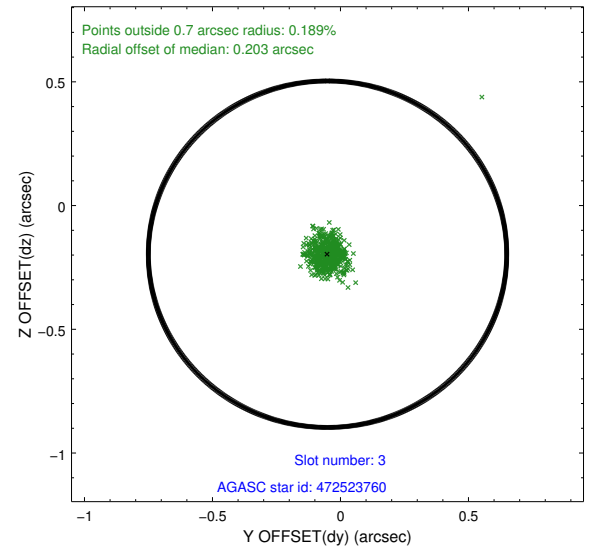
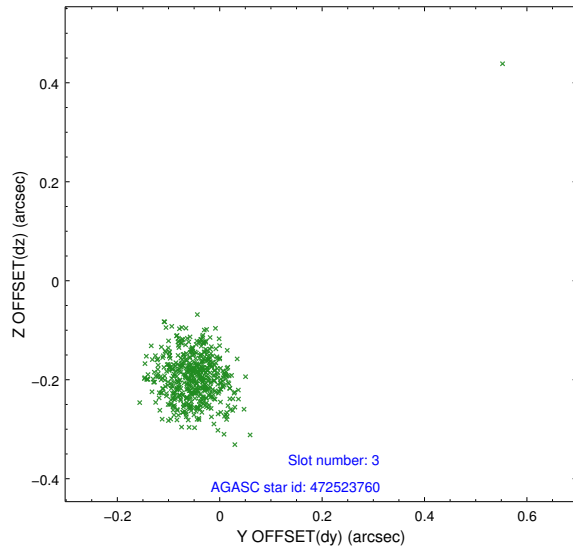
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-S-1	7.04	264	0.138	-0.150	0.012	0.042	0.000000	0.000000	-1161.64	-457.42
1	FID	HRC-S-2	7.03	264	0.158	-0.117	0.006	0.022	0.000000	0.000000	1233.66	-451.77
2	FID	HRC-S-3	7.04	264	0.092	-0.035	0.012	0.060	0.000000	0.000000	-1159.73	570.51
3	GUIDE	472523760	8.24	528	-0.051	-0.197	0.063	0.100	331.645363	45.403260	606.08	-1443.00
4	GUIDE	472527720	6.99	528	-0.017	0.053	0.094	0.145	331.460205	45.112509	1465.61	-2206.40
5	GUIDE	472654568	9.44	528	0.110	0.032	0.109	0.168	332.194449	45.063576	2188.01	-477.41
6	GUIDE	472655152	9.44	528	0.012	0.087	0.097	0.156	332.504239	45.862991	-338.39	1108.59
7	GUIDE	472659832	9.47	525	-0.051	0.027	0.101	0.182	332.780399	46.098139	-956.69	2015.77

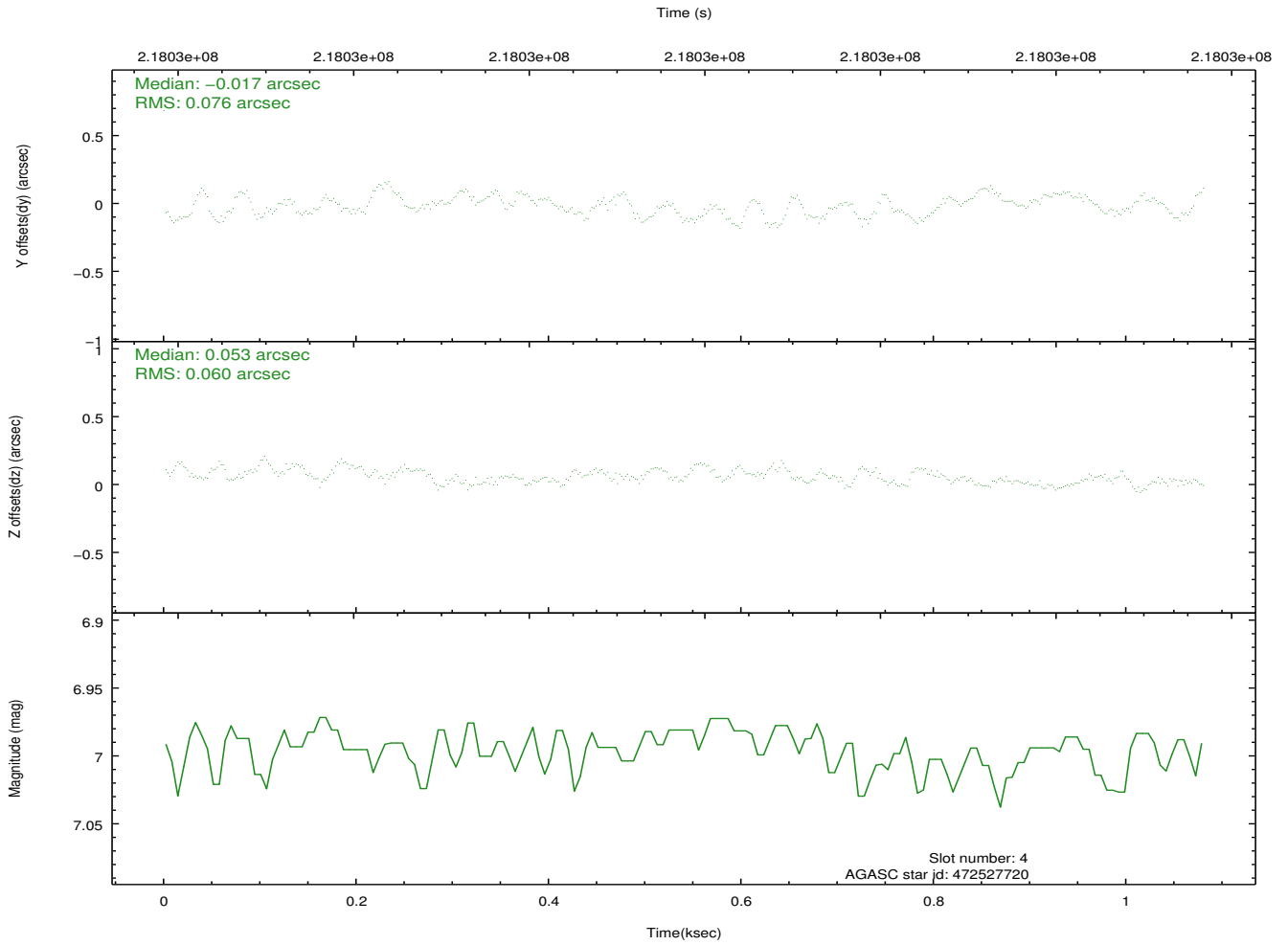
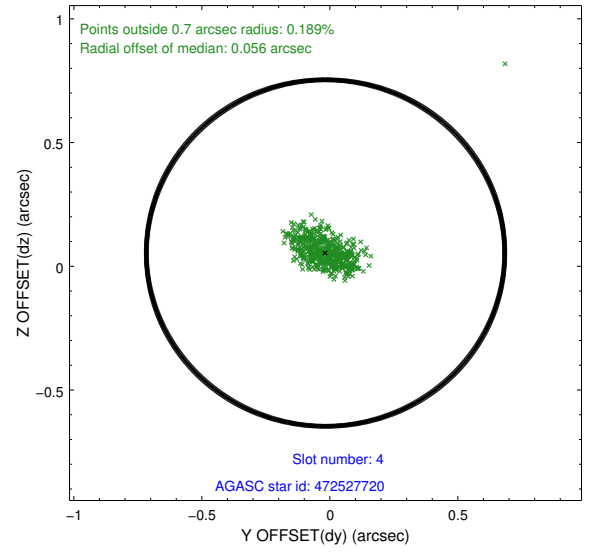
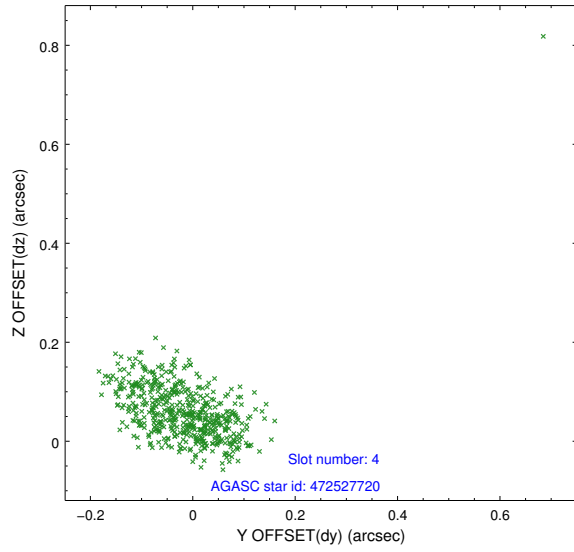


## 2.4 Star Slots

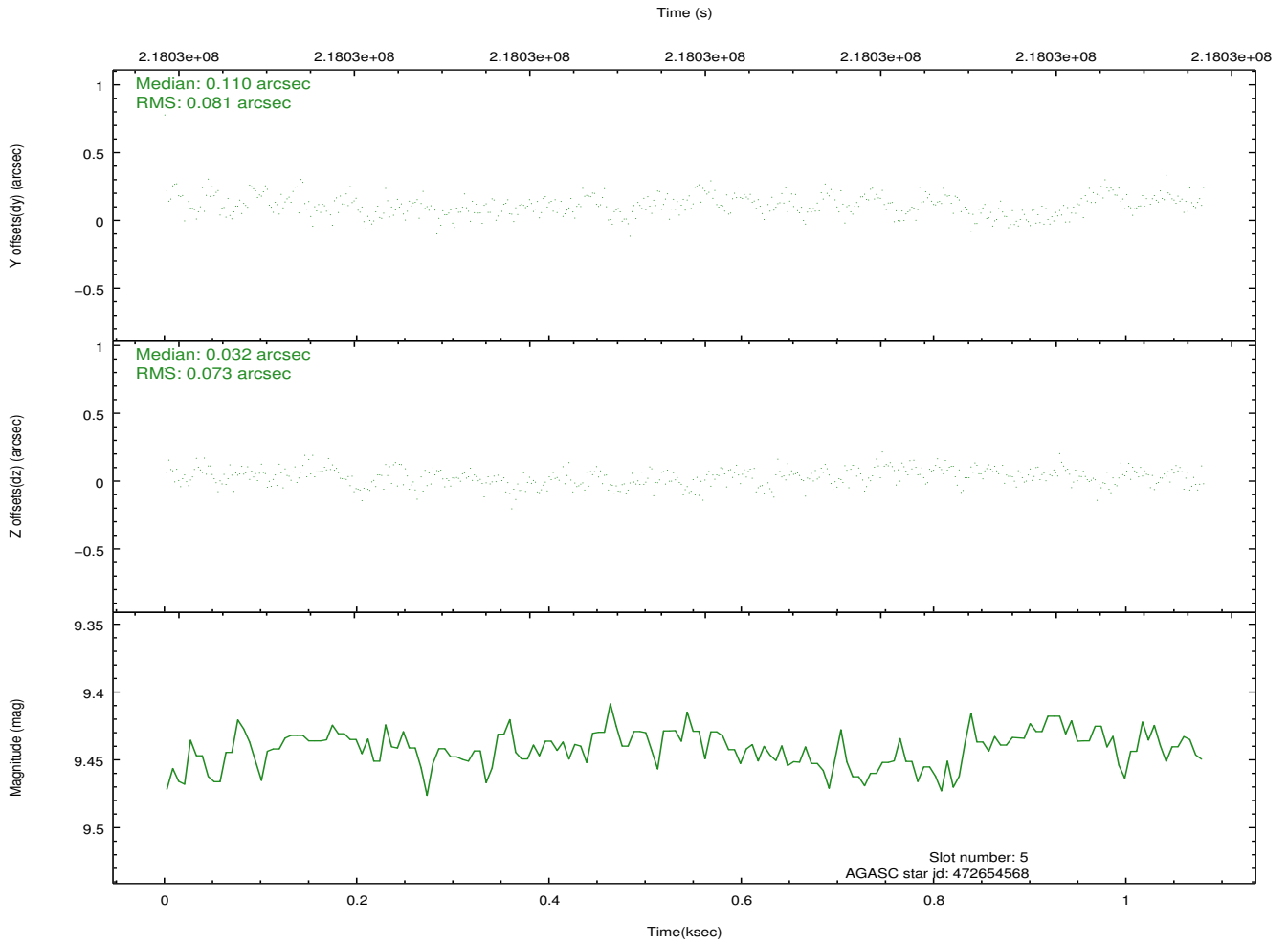
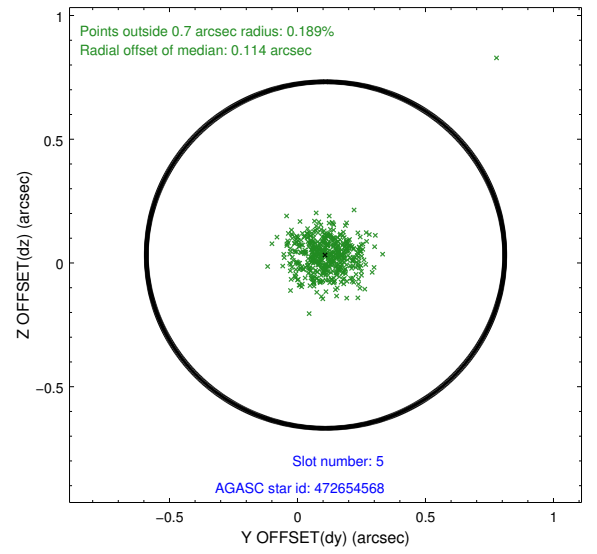
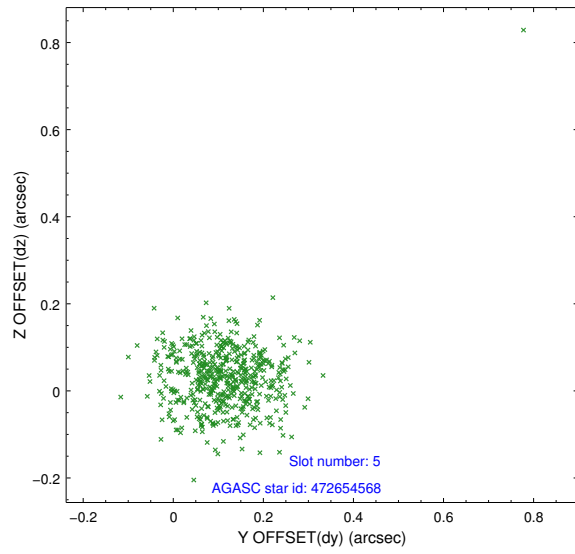
### 2.4.1 Slot 3



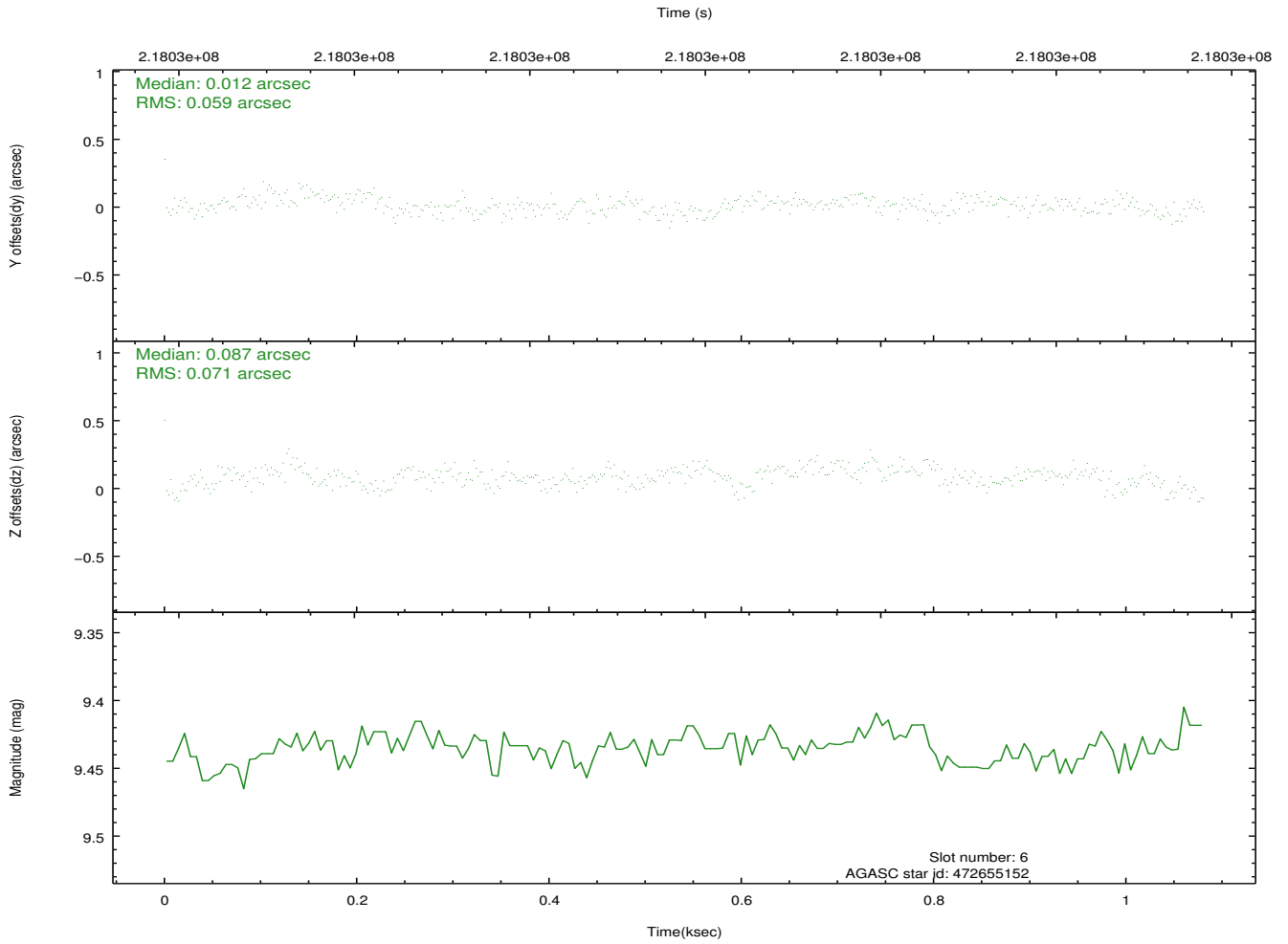
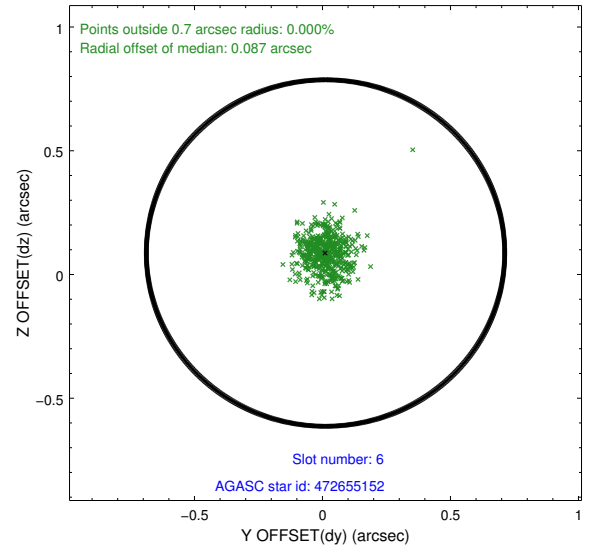
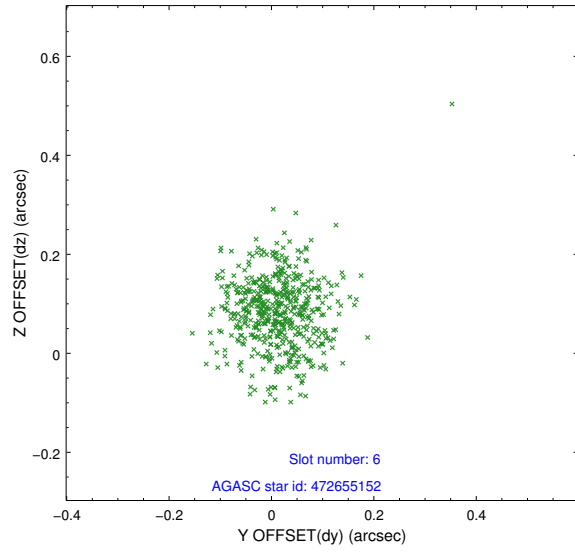
## 2.4.2 Slot 4



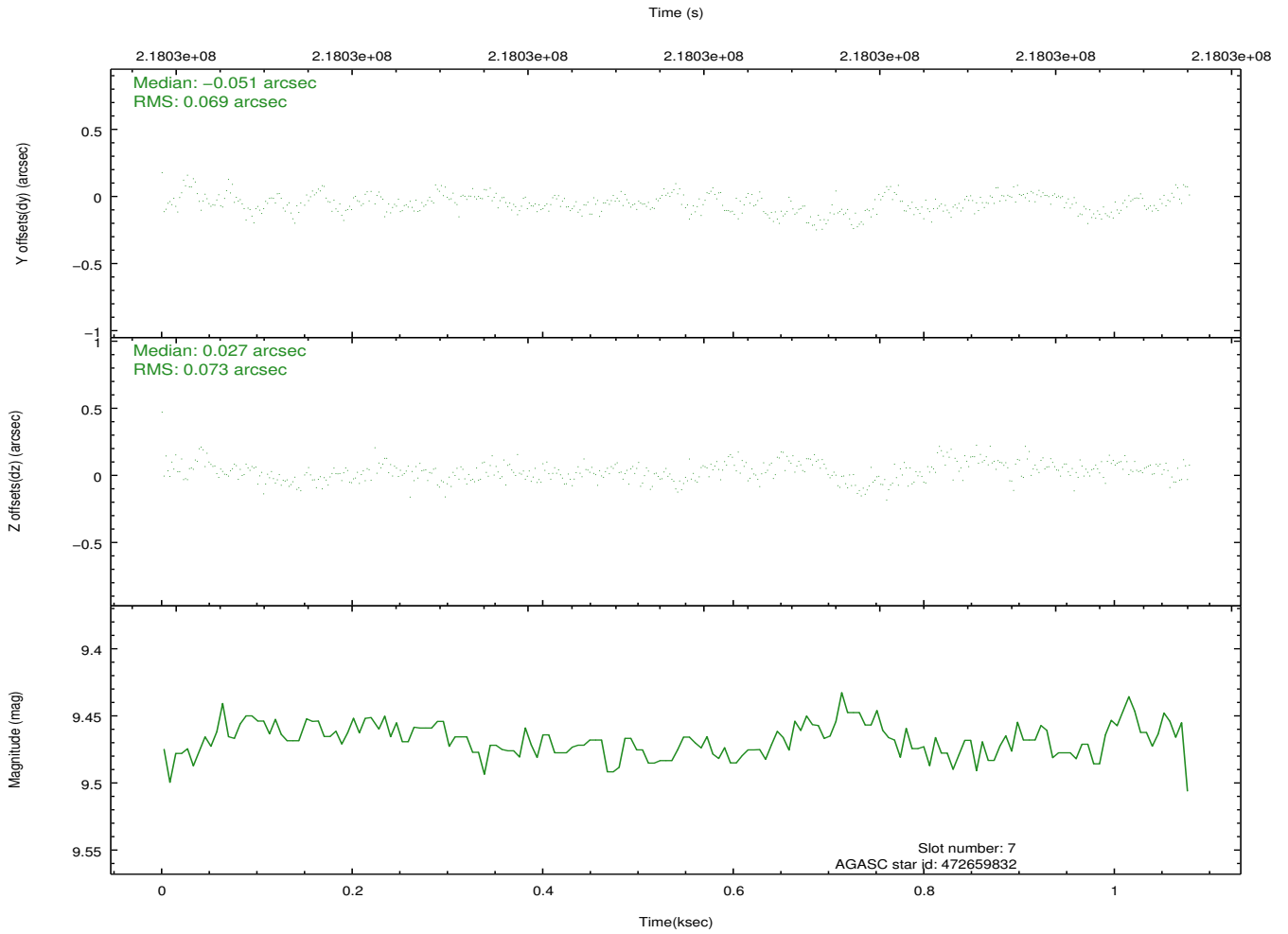
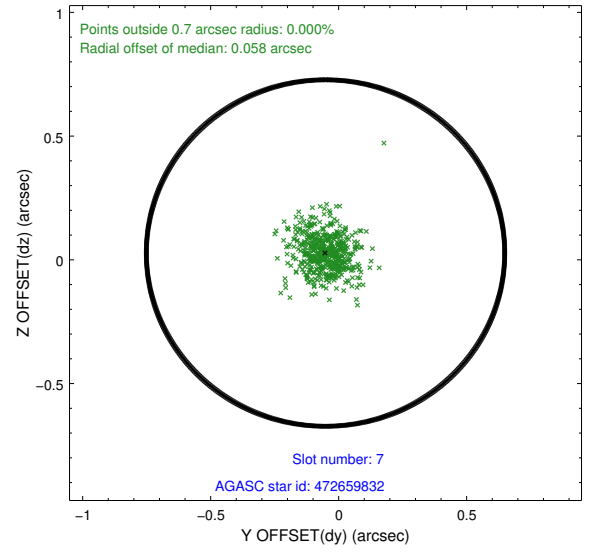
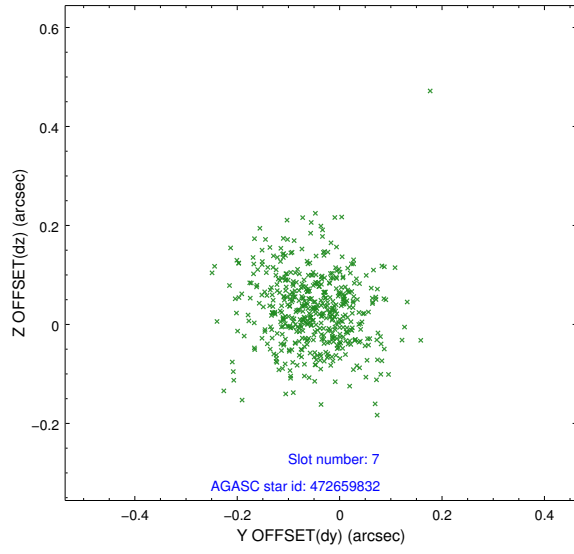
### 2.4.3 Slot 5



## 2.4.4 Slot 6

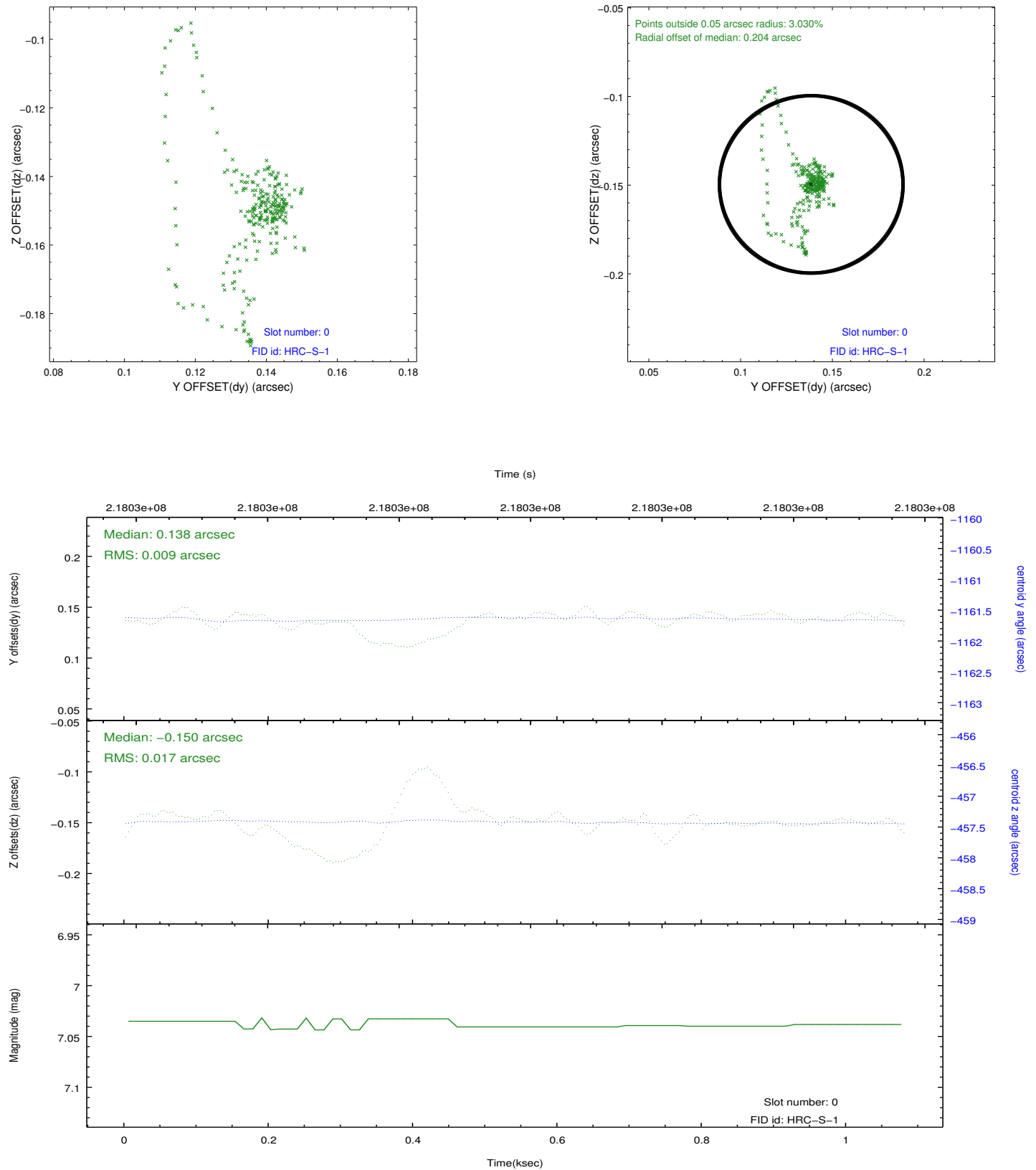


## 2.4.5 Slot 7

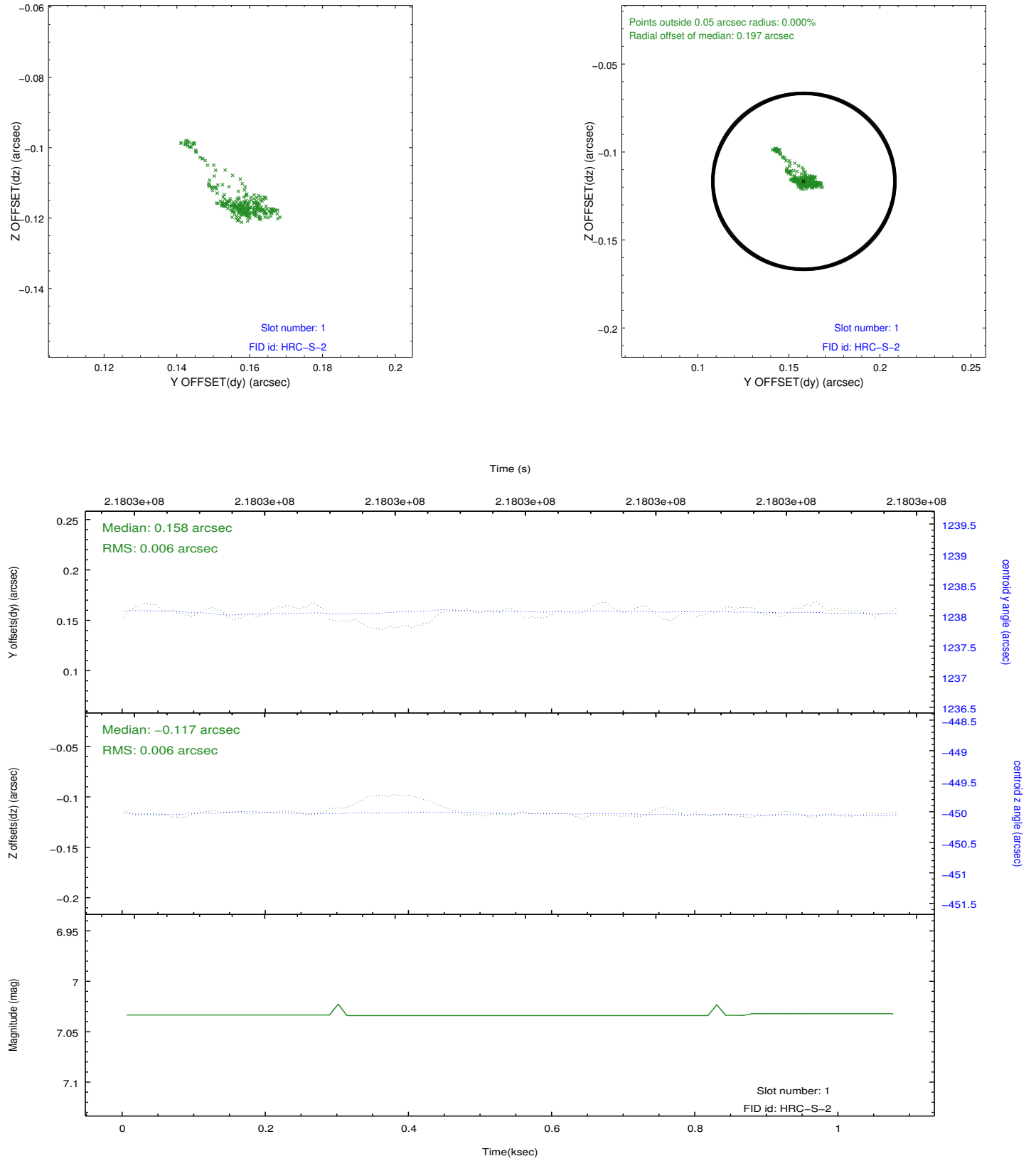


## 2.5 FID Slots

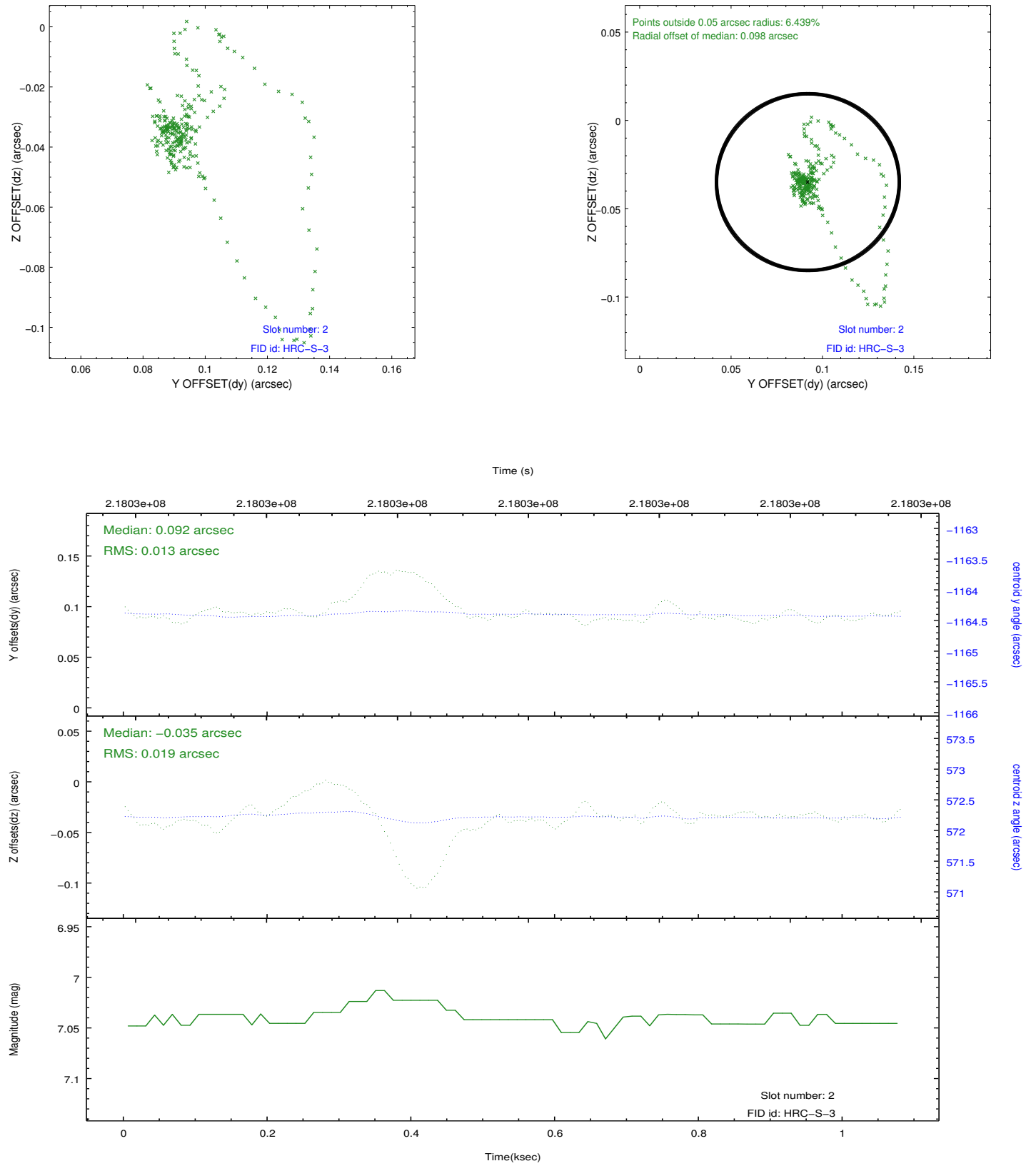
### 2.5.1 Slot 0



## 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)	2013.03.14
V&V Edition	2
V&V Disposition and Status	OK
V&V Charge Time	1.050881

### A.2 Comments