

# V&V Reference Report

## L2 ASCDS Version : 8.5.1.1

Observation 6017 - L2 Version 3  
Chandra X-Ray Center

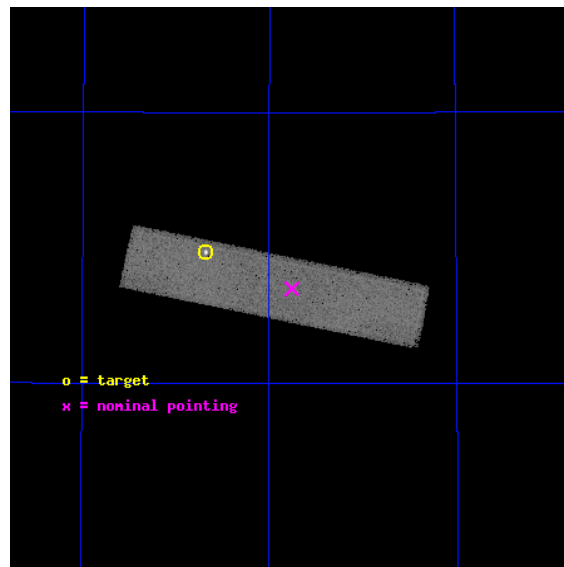
L2 Processing Date : Dec 28 2012

## Contents

<b>1</b>	<b>Front</b>	<b>2</b>
<b>2</b>	<b>OBI</b>	<b>3</b>
2.1	OBI . . . . .	3
2.1.1	Images . . . . .	3
2.1.2	Parameters . . . . .	4
2.1.3	Events . . . . .	4
2.2	Compared Parameters . . . . .	5
2.3	Aspect . . . . .	6
2.4	Star Slots . . . . .	9
2.4.1	Slot 3 . . . . .	9
2.4.2	Slot 4 . . . . .	10
2.4.3	Slot 5 . . . . .	11
2.4.4	Slot 6 . . . . .	12
2.4.5	Slot 7 . . . . .	13
2.5	FID Slots . . . . .	14
2.5.1	Slot 0 . . . . .	14
2.5.2	Slot 1 . . . . .	15
2.5.3	Slot 2 . . . . .	16
<b>A</b>	<b>Summary</b>	<b>17</b>
A.1	Status . . . . .	17
A.2	Comments . . . . .	17

# 1 Front

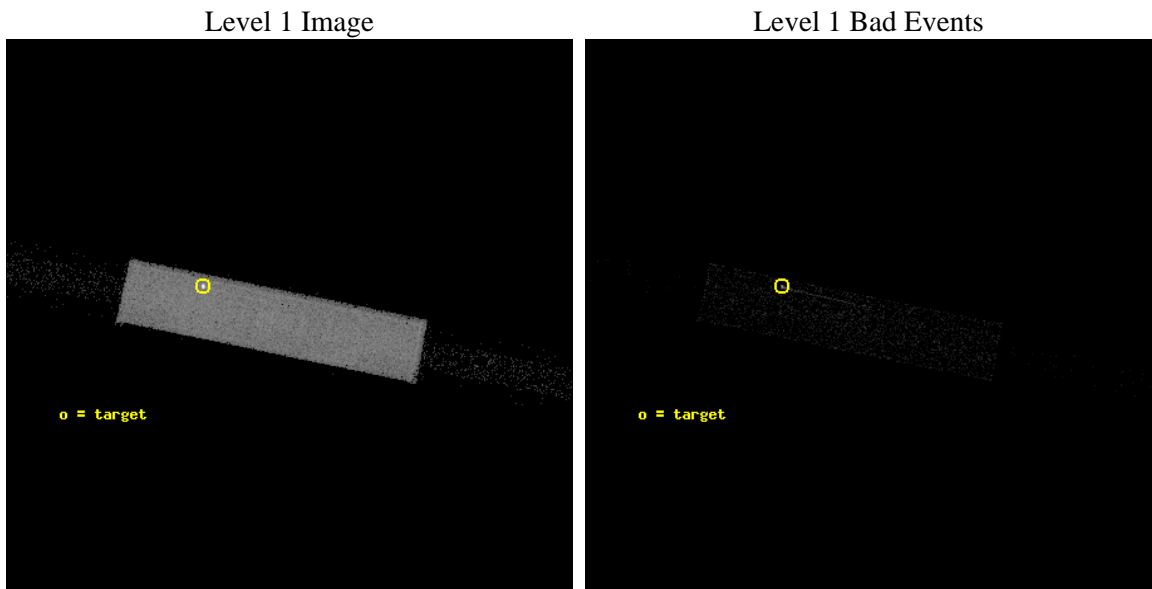
seq_num	290509	Sequence number
obs_id	6017	Observation id
title	AO6B Calibration Observations to Monitor the Spatial Variations in the HRC-S Gain	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	331.93942319961	Nominal RA [deg]
dec_nom	45.675198006933	Nominal Dec [deg]
roll_nom	191.49426148294	Nominal Roll [deg]
revision	3	Processing version of data
ontime	1157.4813031852	[s]
livetime	1147.2937624544	Ontime multiplied by DTCOR
l2events	73679	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	1000.000000	[s] Scheduled observation exposure time
ascdsver	8.5.1.1	Processing system revision	ontime	1157.4813031852	[s]
caldsver	4.5.5	&#160	l1events	109148	Number of level 1 events
date	2012-12-28T18:50:13	Date and time of file creation			
revision	3	Processing version of data			

### 2.1.3 Events

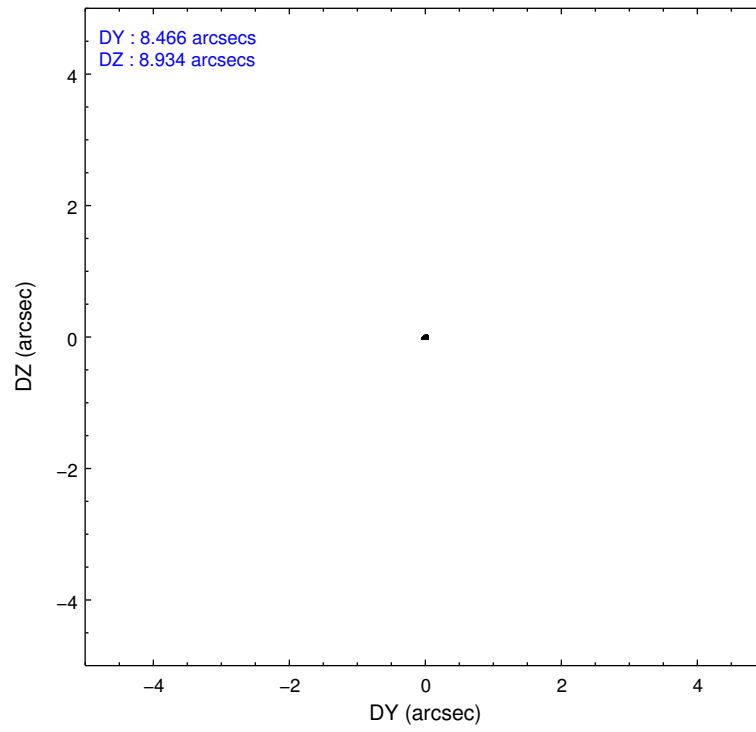
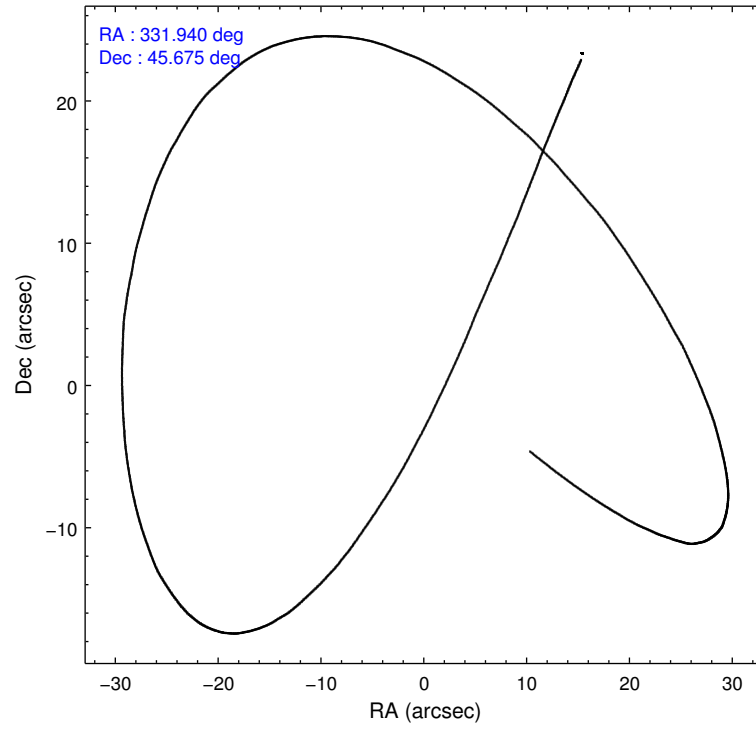
Level 1 Events

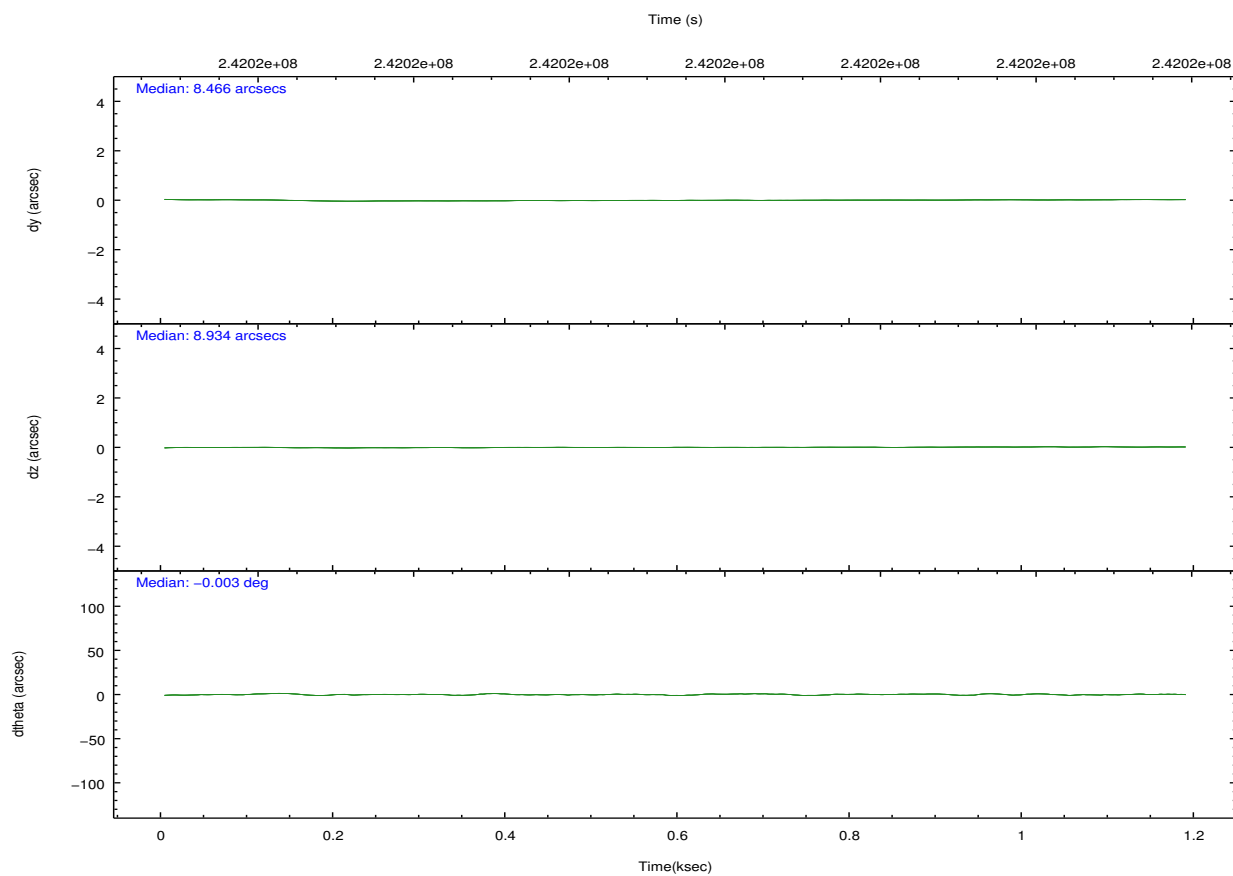
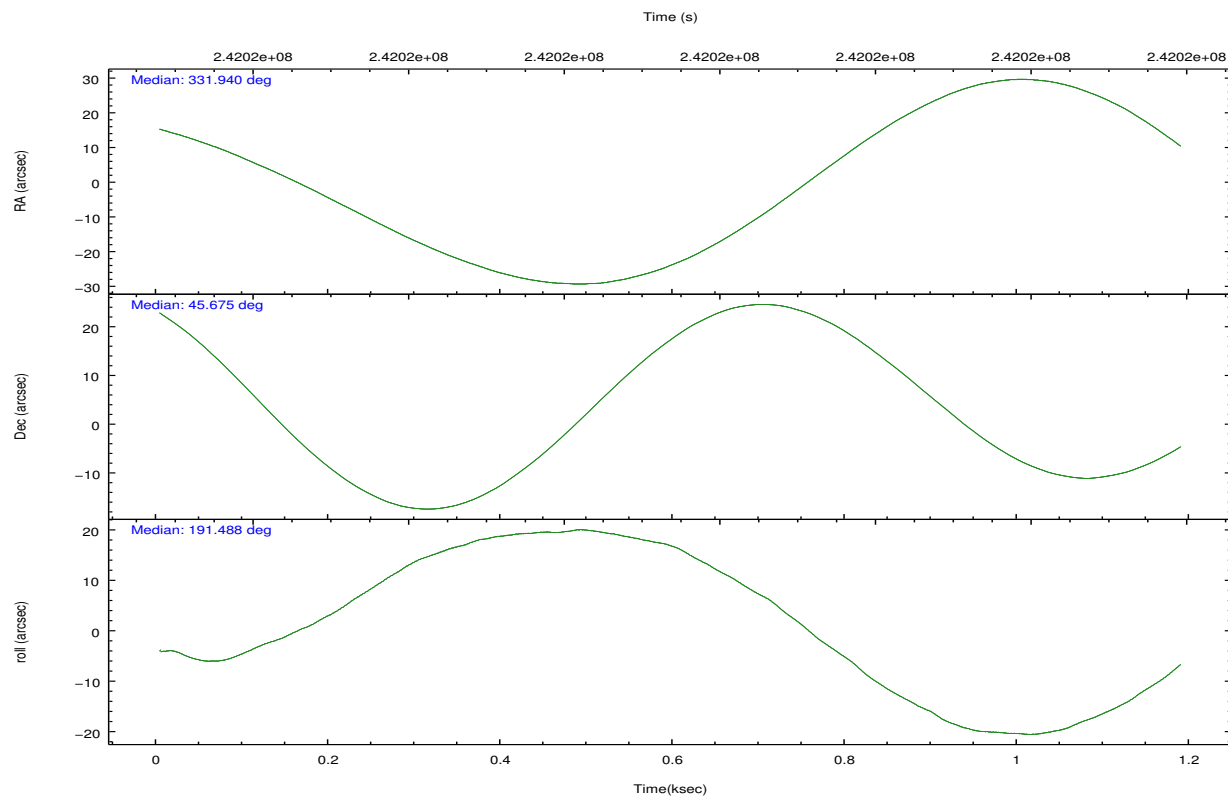
	<b>segment 1</b>	<b>segment 2</b>	<b>segment 3</b>
level 1 events	882	107404	862
rejected events	882	21181	862
rejected %	100%	19%	100%

## 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	331.968067	331.9394231996058			
[deg] Pointing Dec	45.696024	45.67519800693324			
[deg] Pointing Roll	191.406418	191.4942614829408			
[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)	242023934.184000	242023558.39711			
Observation start date	2005-09-02T04:51:10	2005-09-02T04:45:58			
[s] Observation end time (MET)	242024934.184000	242025068.73468			
Observation end date	2005-09-02T05:07:50	2005-09-02T05:11:08			

## 2.3 Aspect





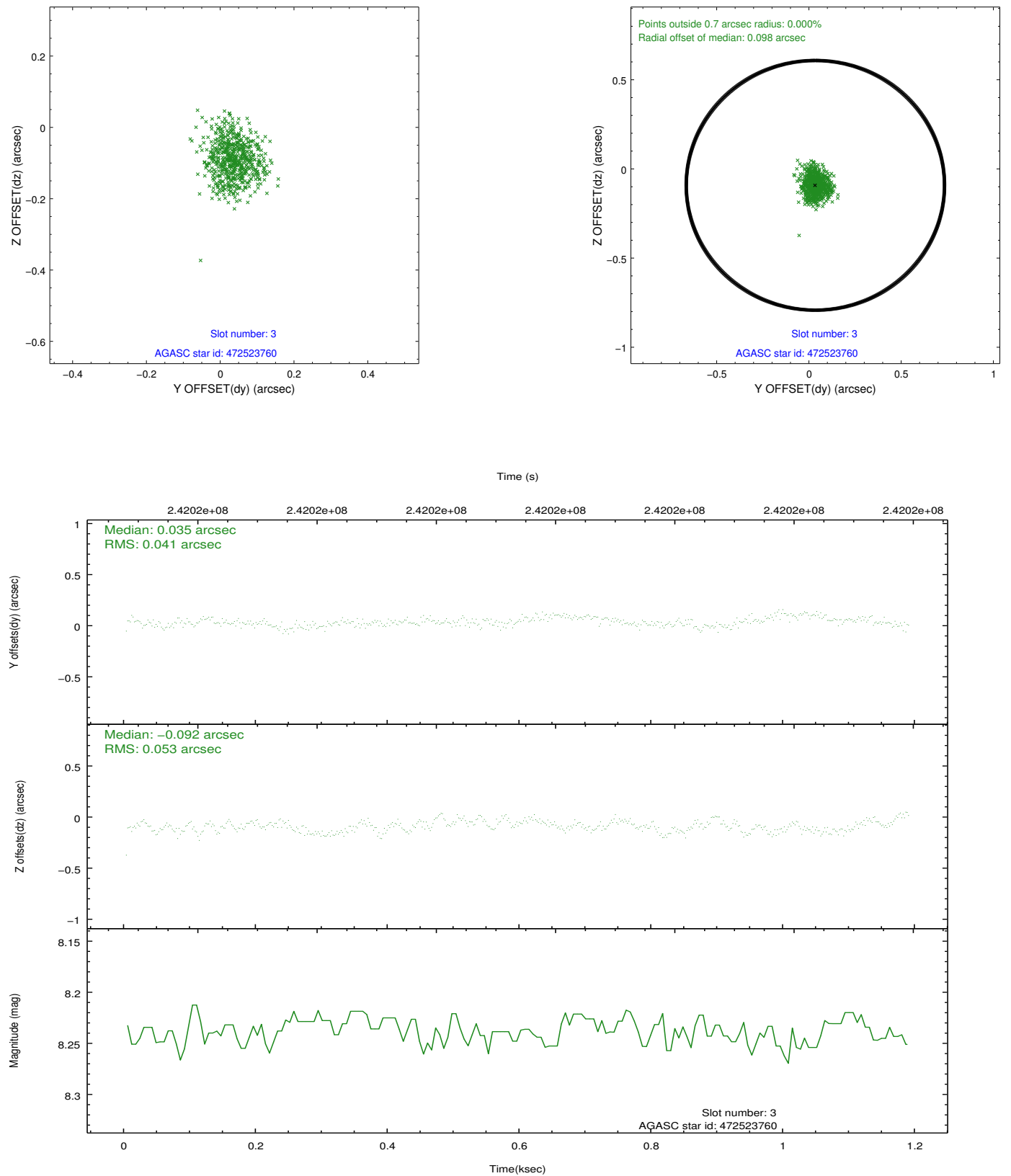
### Slot Statistics

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	290	0.159	-0.172	0.006	0.010	0.000000	0.000000	-1162.63	-457.60
1	FID	HRC-S-2	7.03	290	0.131	-0.113	0.005	0.008	0.000000	0.000000	1233.01	-451.77
2	FID	HRC-S-3	7.05	290	0.100	-0.016	0.006	0.011	0.000000	0.000000	-1161.15	570.53
3	GUIDE	472523760	8.24	580	0.035	-0.092	0.073	0.113	331.645363	45.403260	1008.96	867.17
4	GUIDE	472527720	6.99	580	-0.183	-0.121	0.066	0.111	331.460205	45.112509	1682.13	1798.48
5	GUIDE	472535576	7.85	580	-0.108	0.143	0.059	0.092	331.438373	46.291802	870.92	-2367.08
6	GUIDE	472655152	9.44	580	0.151	-0.014	0.109	0.175	332.504239	45.862991	-1434.45	-335.05
7	GUIDE	472663080	9.42	579	0.097	0.074	0.101	0.168	332.652741	46.473840	-2220.20	-2420.14

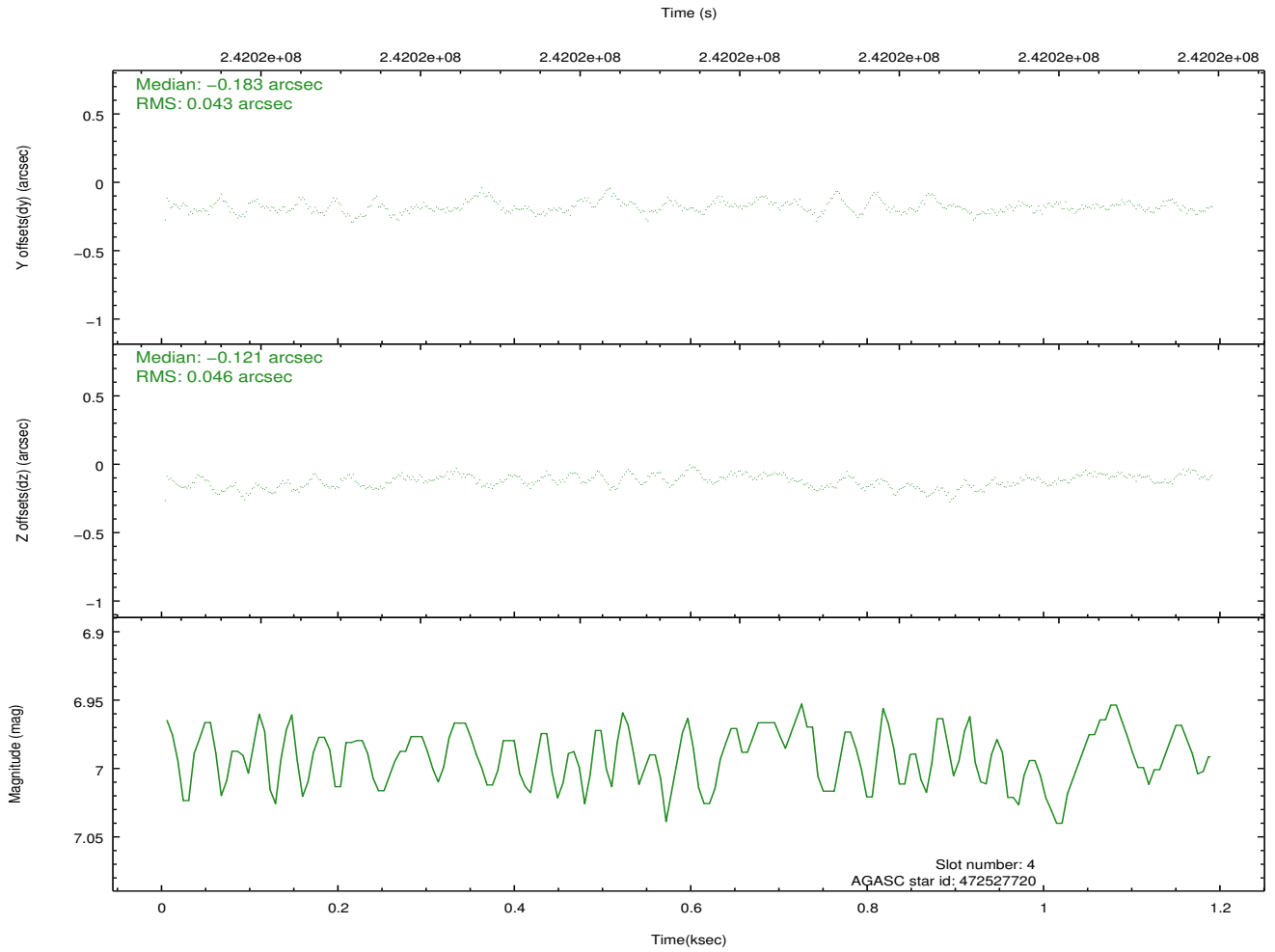
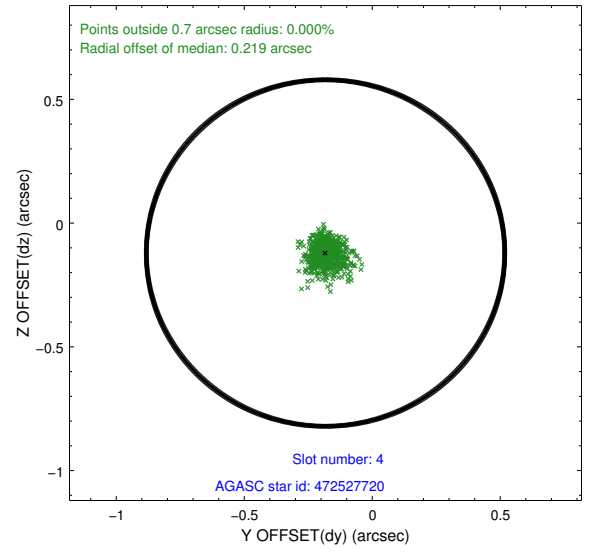
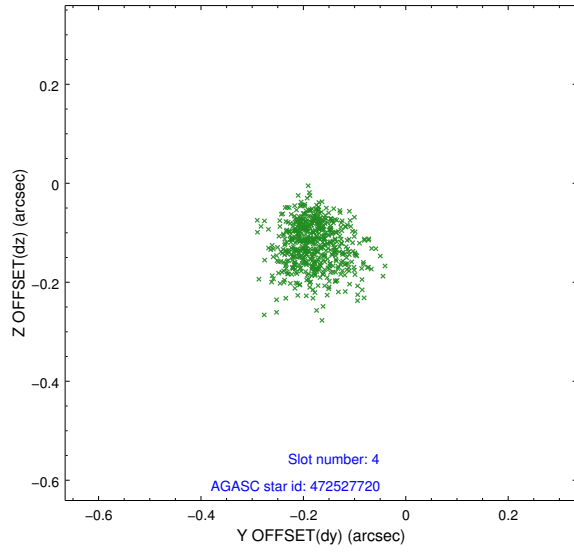


## 2.4 Star Slots

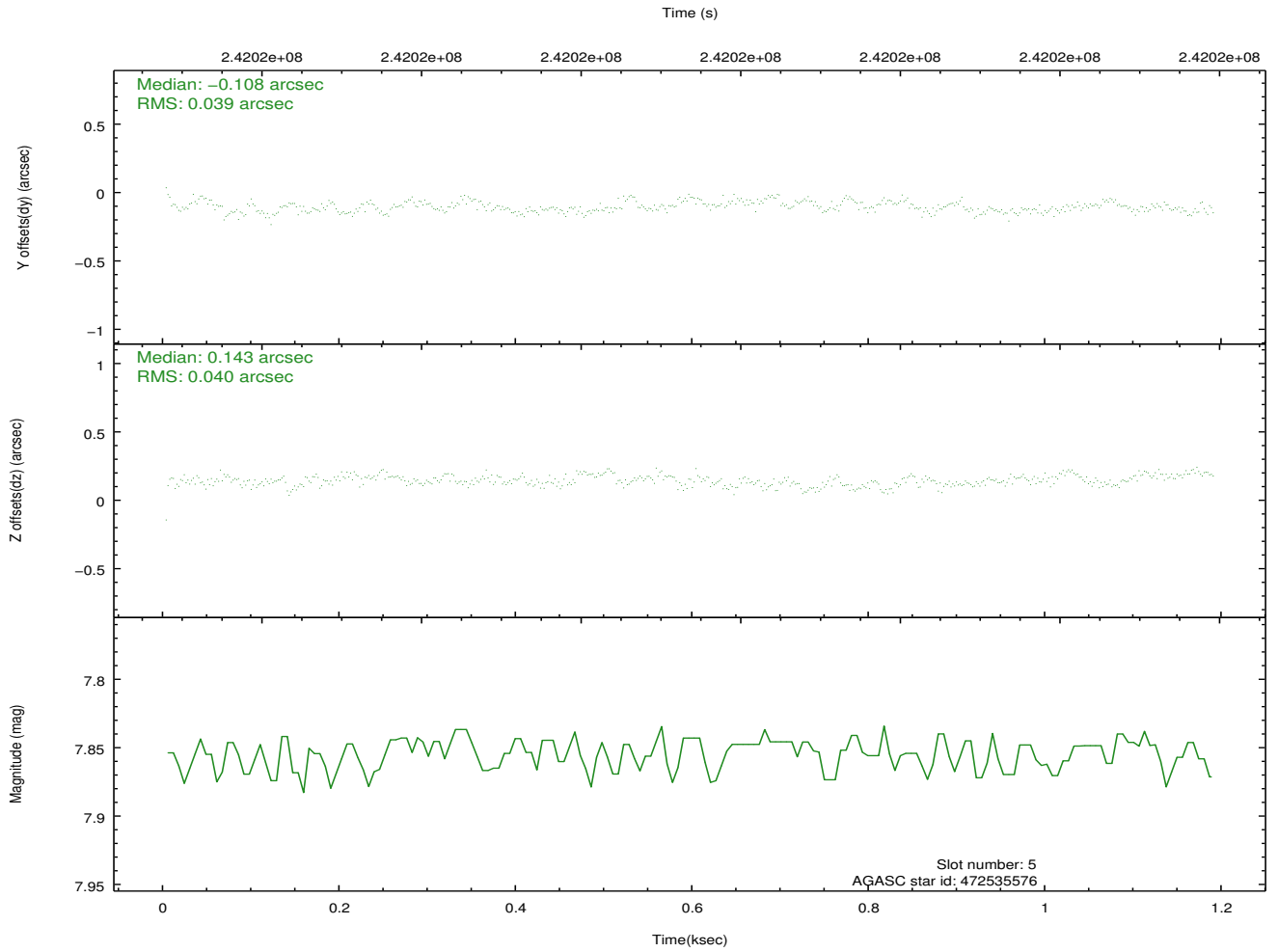
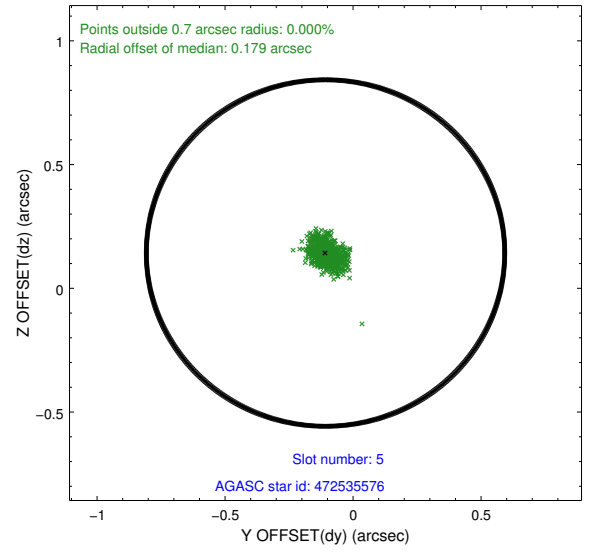
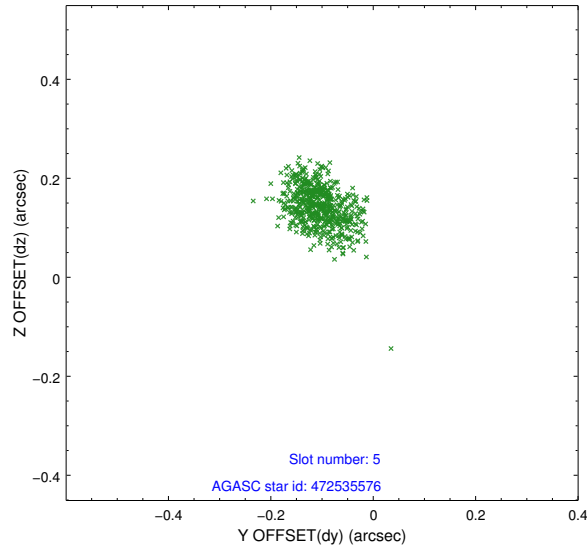
### 2.4.1 Slot 3



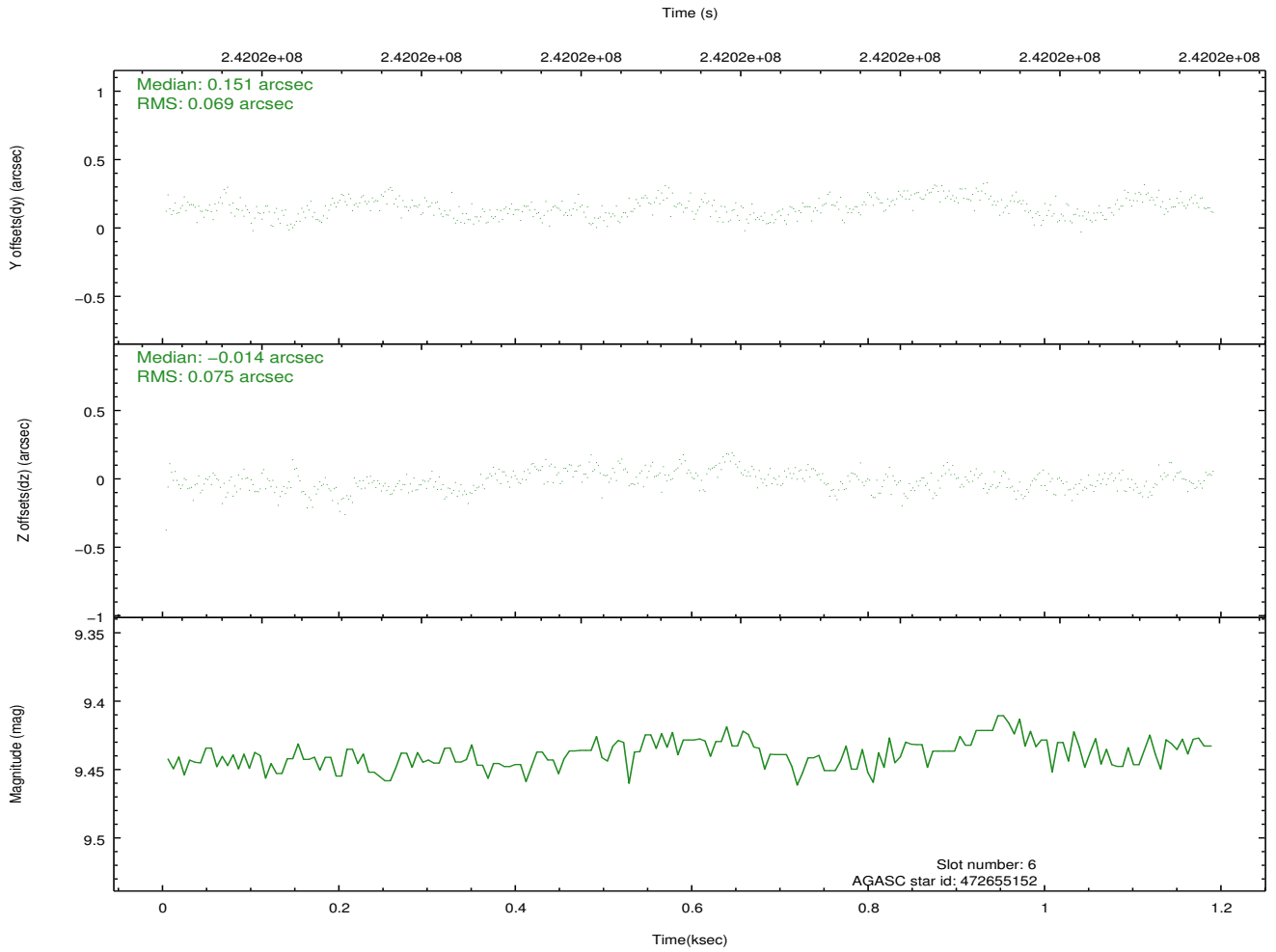
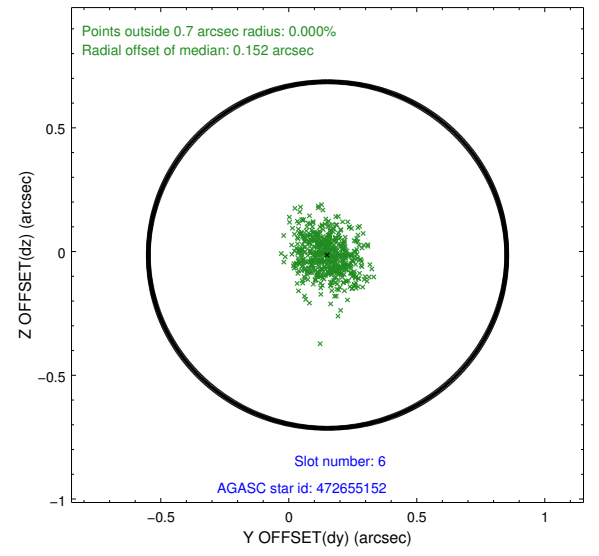
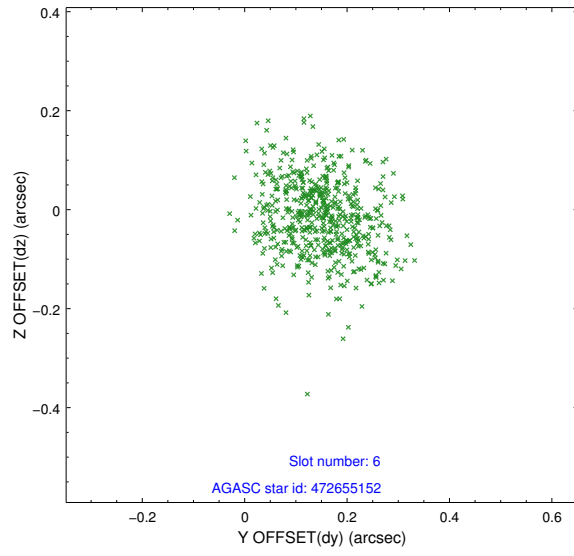
## 2.4.2 Slot 4



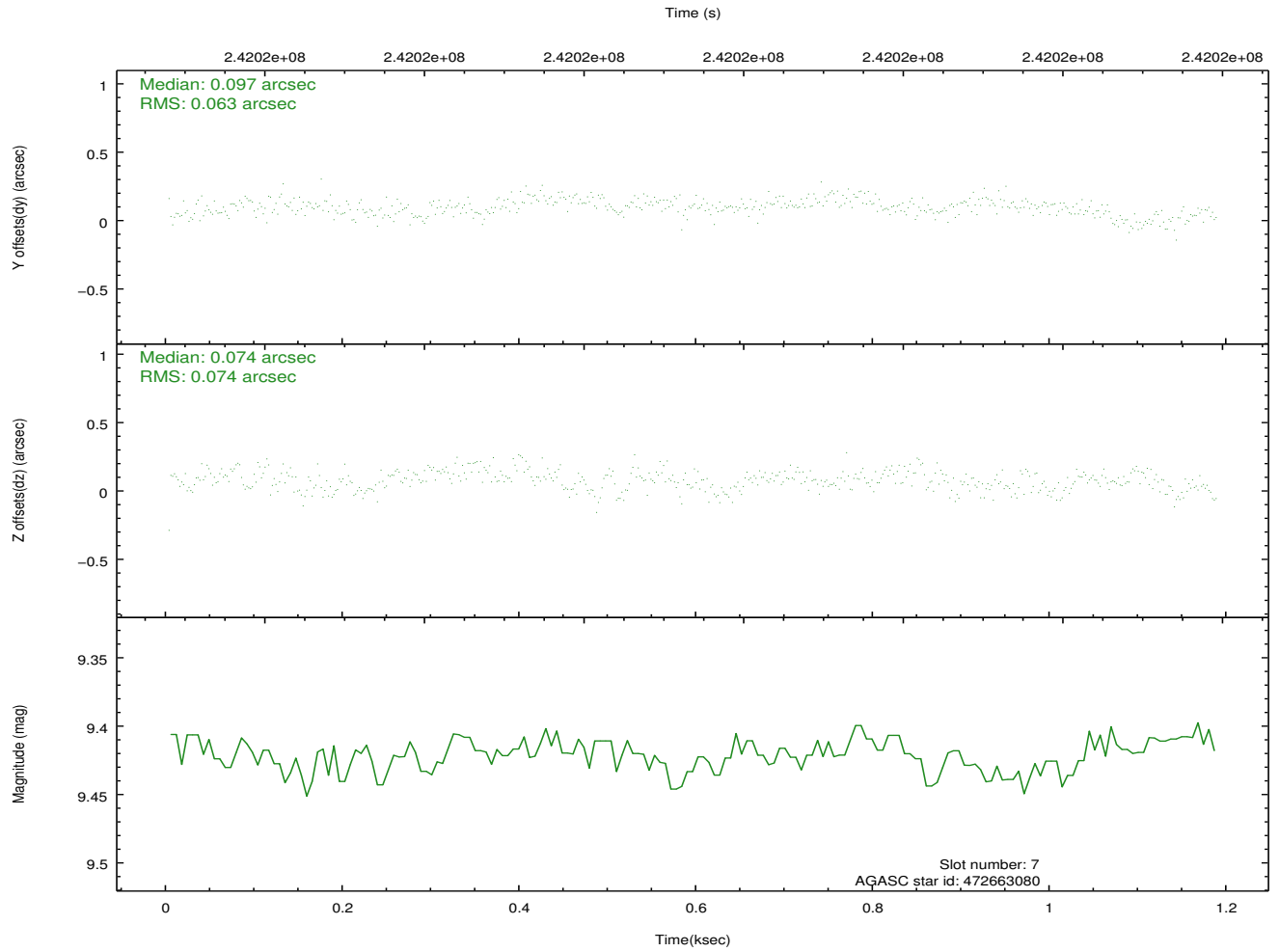
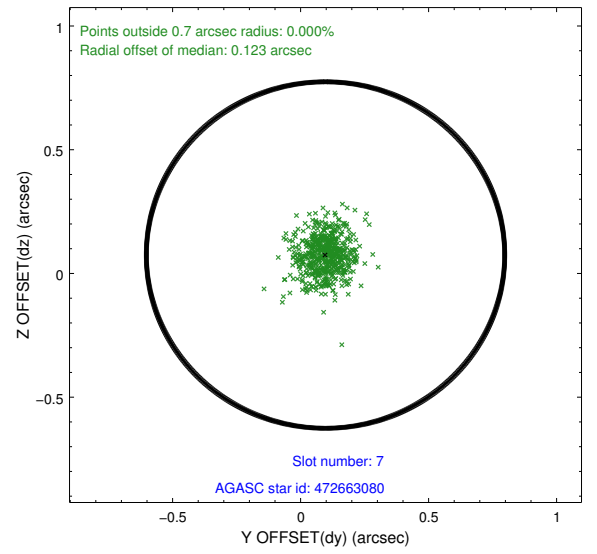
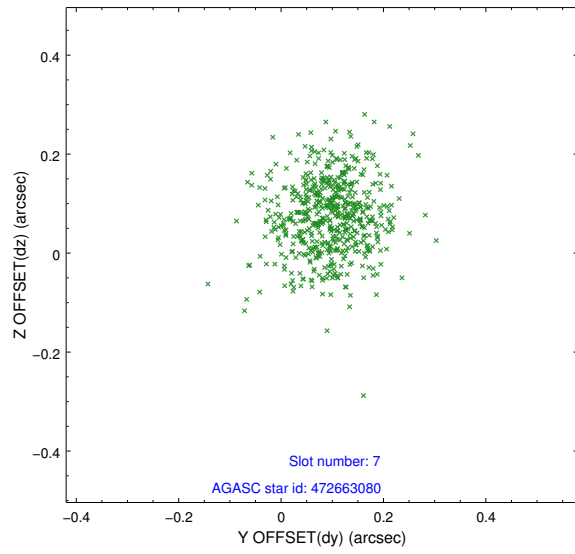
### 2.4.3 Slot 5



## 2.4.4 Slot 6

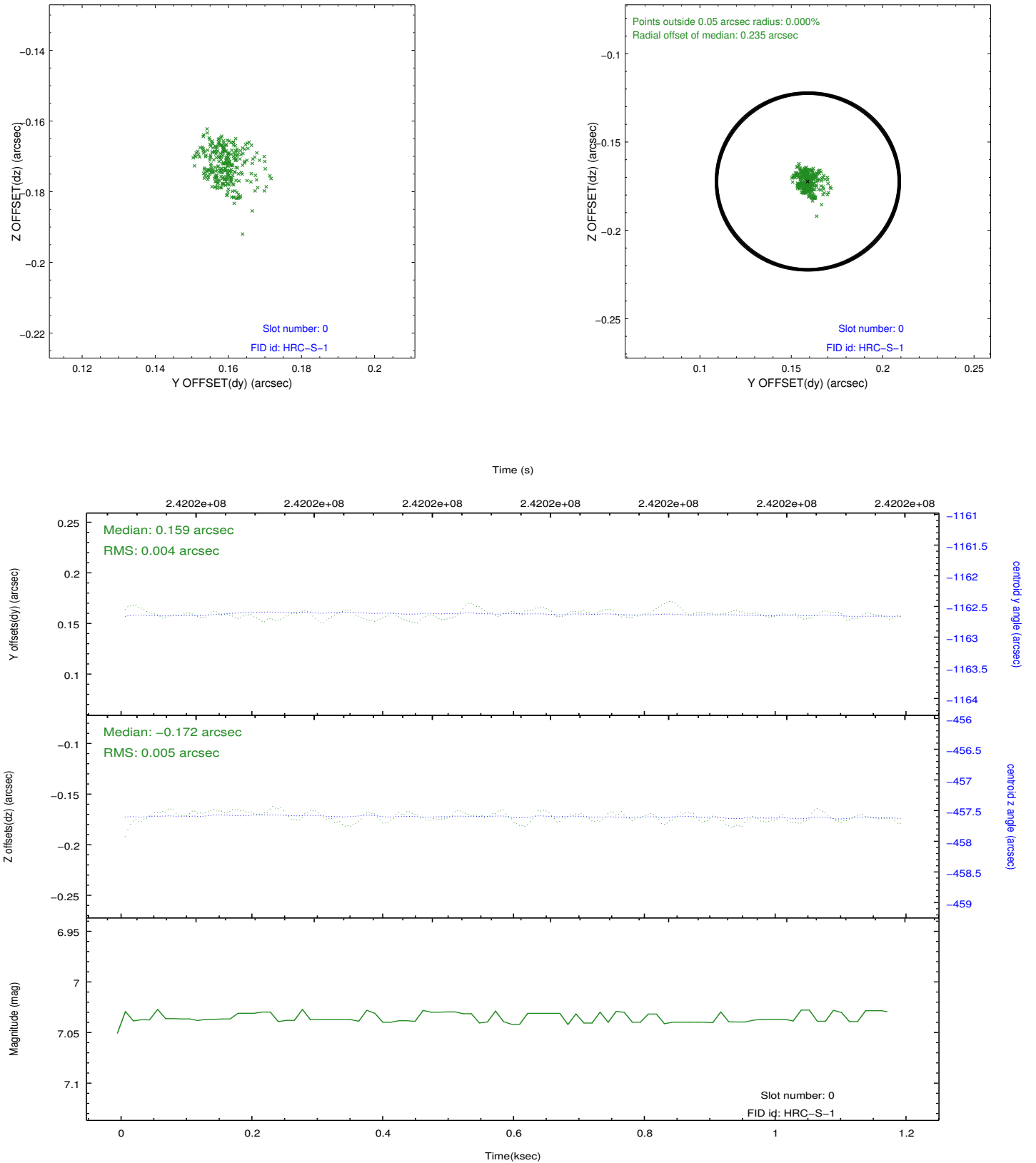


## 2.4.5 Slot 7

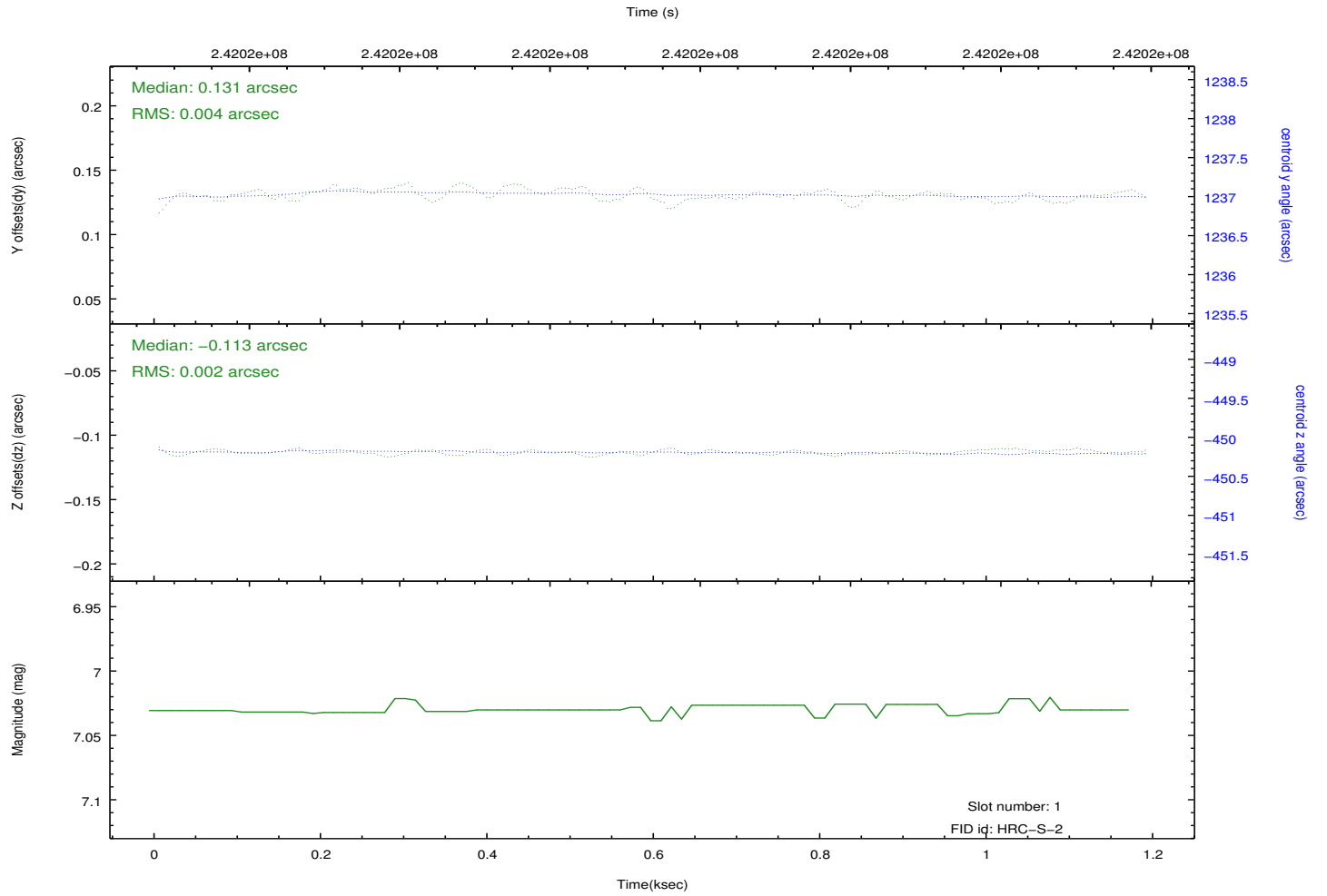
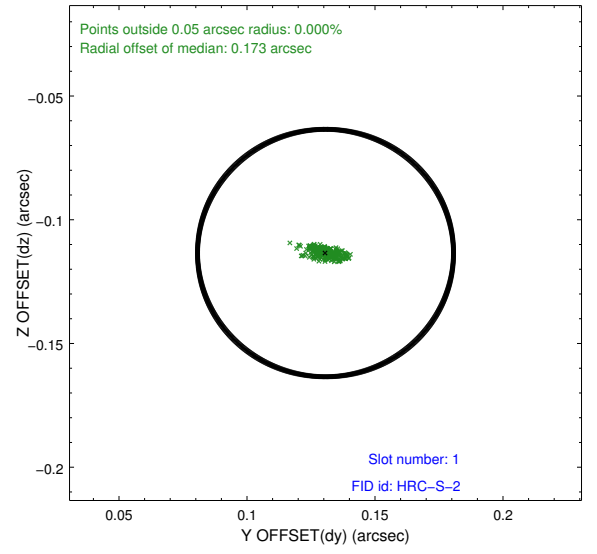
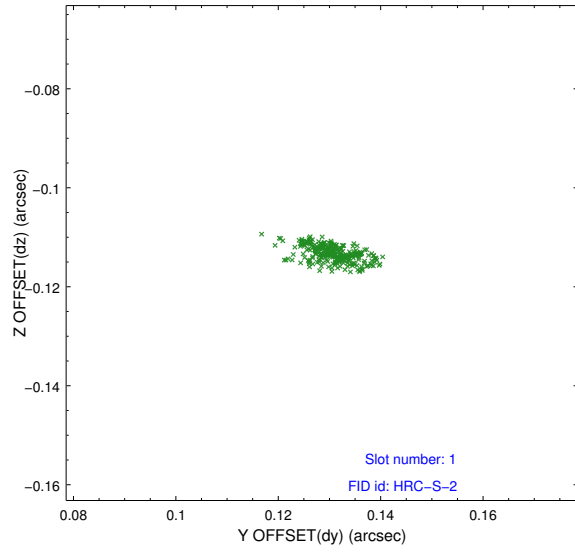


## 2.5 FID Slots

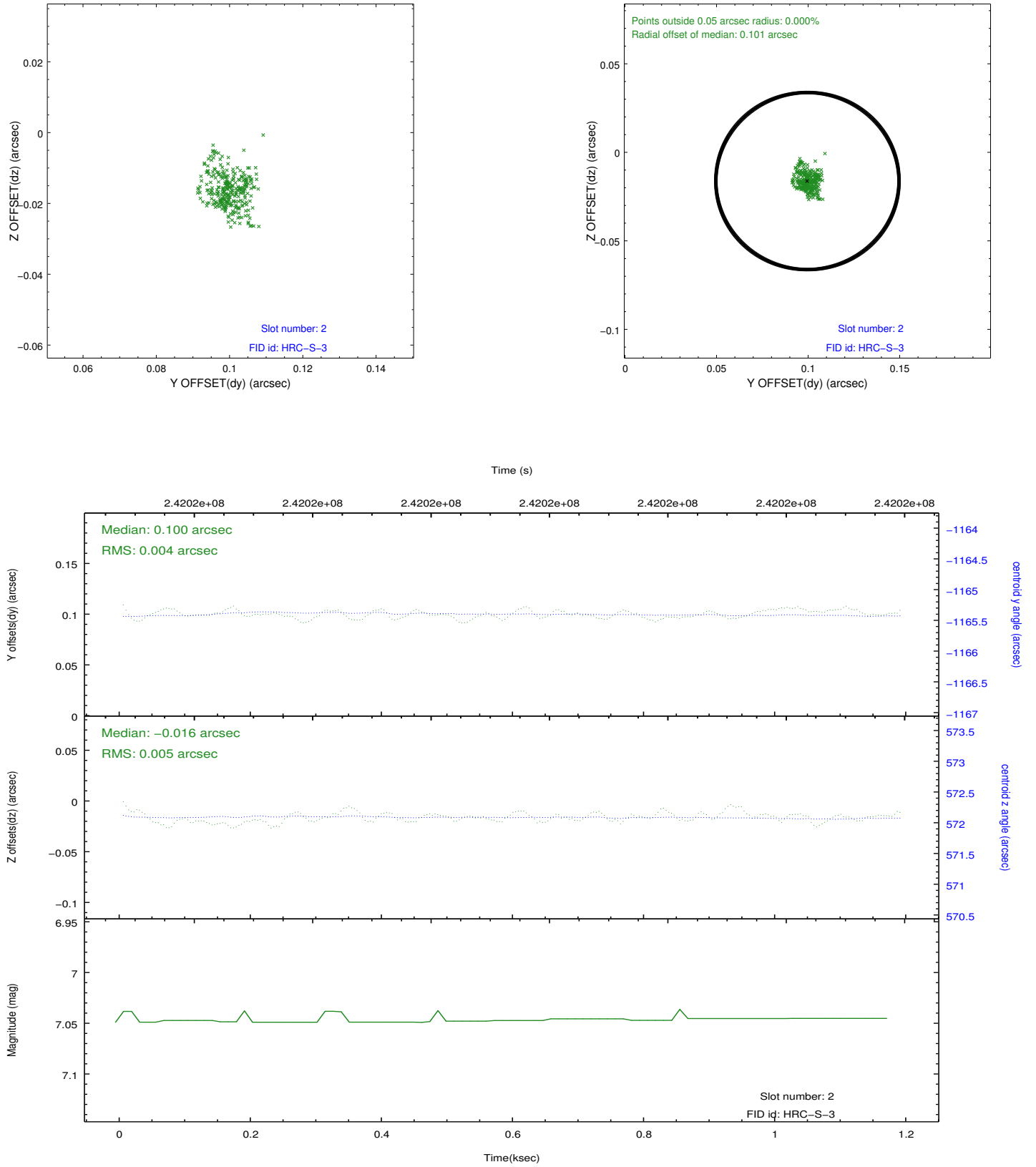
### 2.5.1 Slot 0



## 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)	2013.01.25
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.157225

### A.2 Comments