

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 3689 - L2 Version 3  
Chandra X-Ray Center

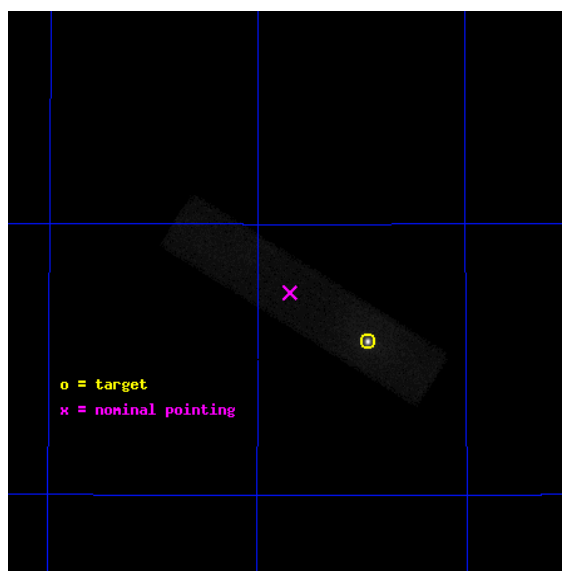
L2 Processing Date : Oct 21 2012

## 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

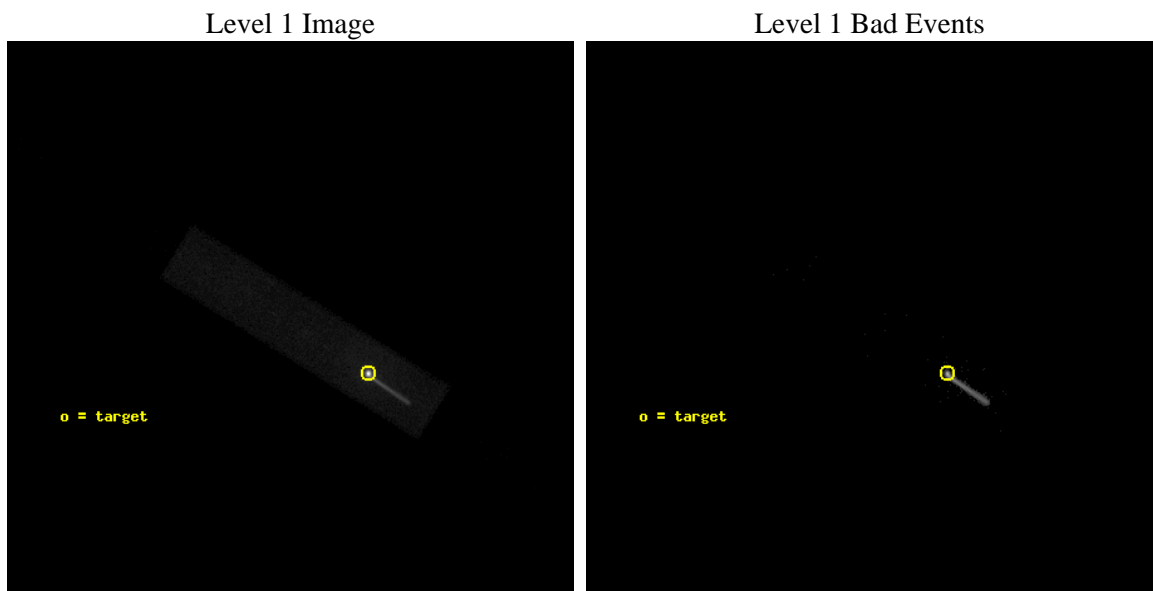
seq_num	290243	Sequence number
obs_id	3689	Observation id
title	AO4 MEASUREMENTS OF THE OPTICAL/UV TRANSMISSION OF THE HRC AND ACIS FILTERS	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	VEGA	Source name
ra_targ	279.235	Observer's specified target RA [deg]
dec_targ	38.783778	Observer's specified target Dec [deg]
ra_nom	279.42213303659	Nominal RA [deg]
dec_nom	38.873734007961	Nominal Dec [deg]
roll_nom	31.742410211053	Nominal Roll [deg]
revision	3	Processing version of data
ontime	2141.4813397825	[s]
livetime	1725.1787805523	Ontime multiplied by DTCOR
l2events	380102	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	2000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	2141.4813397825	[s]
caldsver	4.5.2	&#160	l1events	462019	Number of level 1 events
date	2012-10-21T04:53:52	Date and time of file creation			
revision	3	Processing version of data			

### 2.1.3 Events

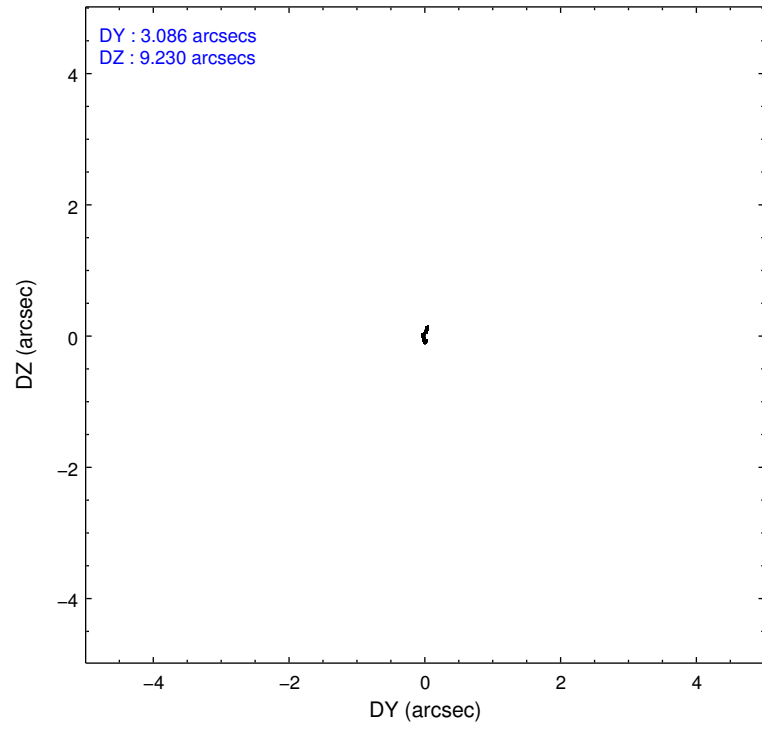
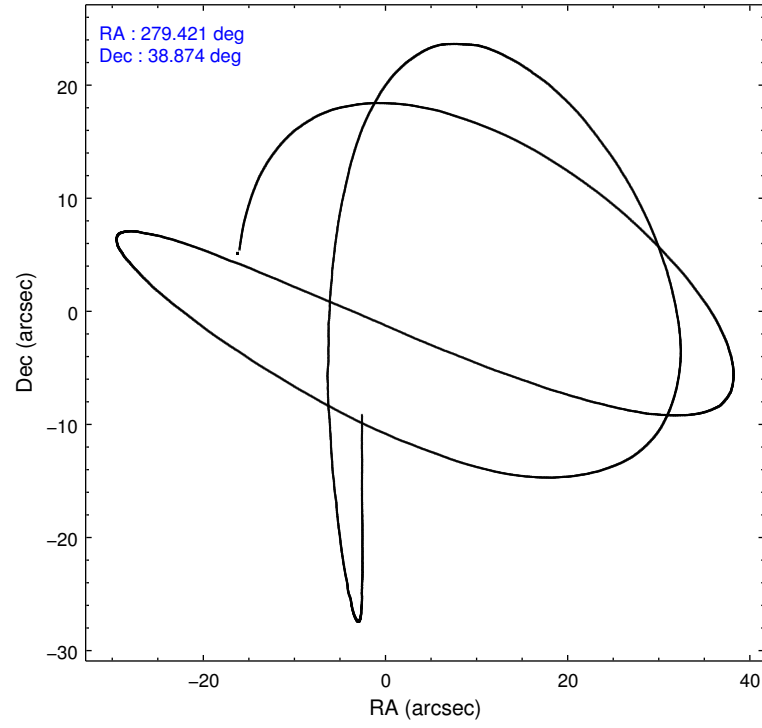
Level 1 Events

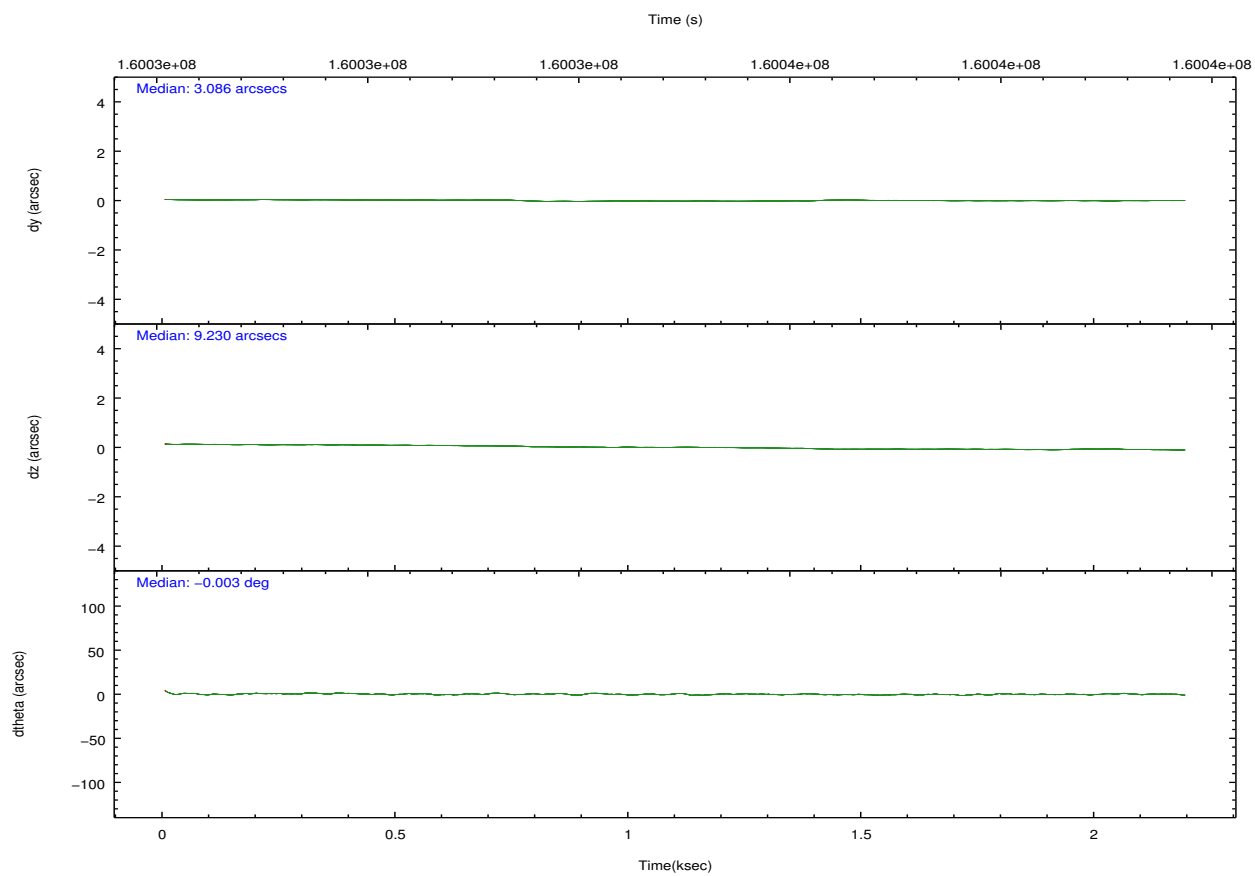
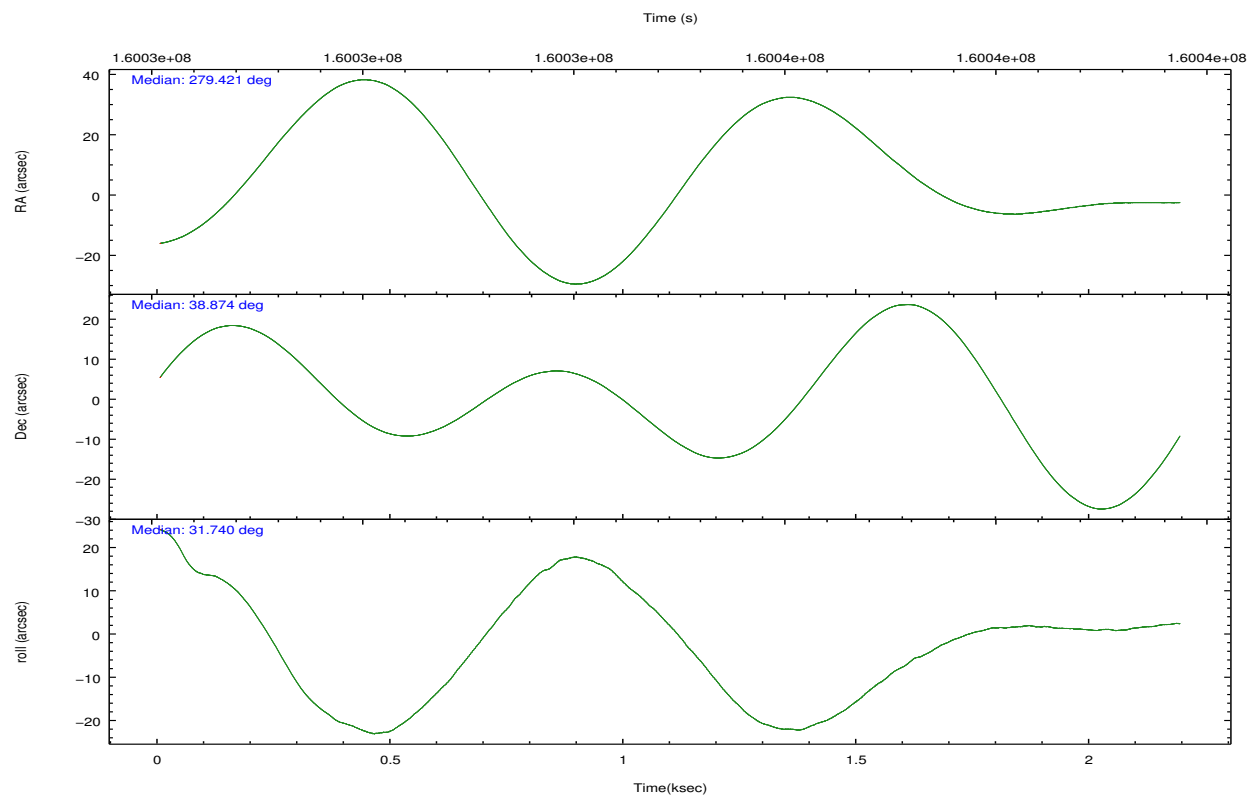
	segment 1	segment 2	segment 3
level 1 events	1162	459795	1062
rejected events	1162	64736	1062
rejected %	100%	14%	100%

## 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	279.406390	279.4221330365917			
[deg] Pointing Dec	38.847964	38.87373400796118			
[deg] Pointing Roll	31.684966	31.74241021105317			
[s] Window start time (MET)	159019264.184000	159019264.184000			
[s] Window stop time (MET)	161697664.184000	161697664.184000			
[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)	160033829.184000	160033453.72464			
Observation start date	2003-01-27T05:49:25	2003-01-27T05:44:13			
[s] Observation end time (MET)	160035829.184000	160035963.43725			
Observation end date	2003-01-27T06:22:45	2003-01-27T06:26:03			

## 2.3 Aspect





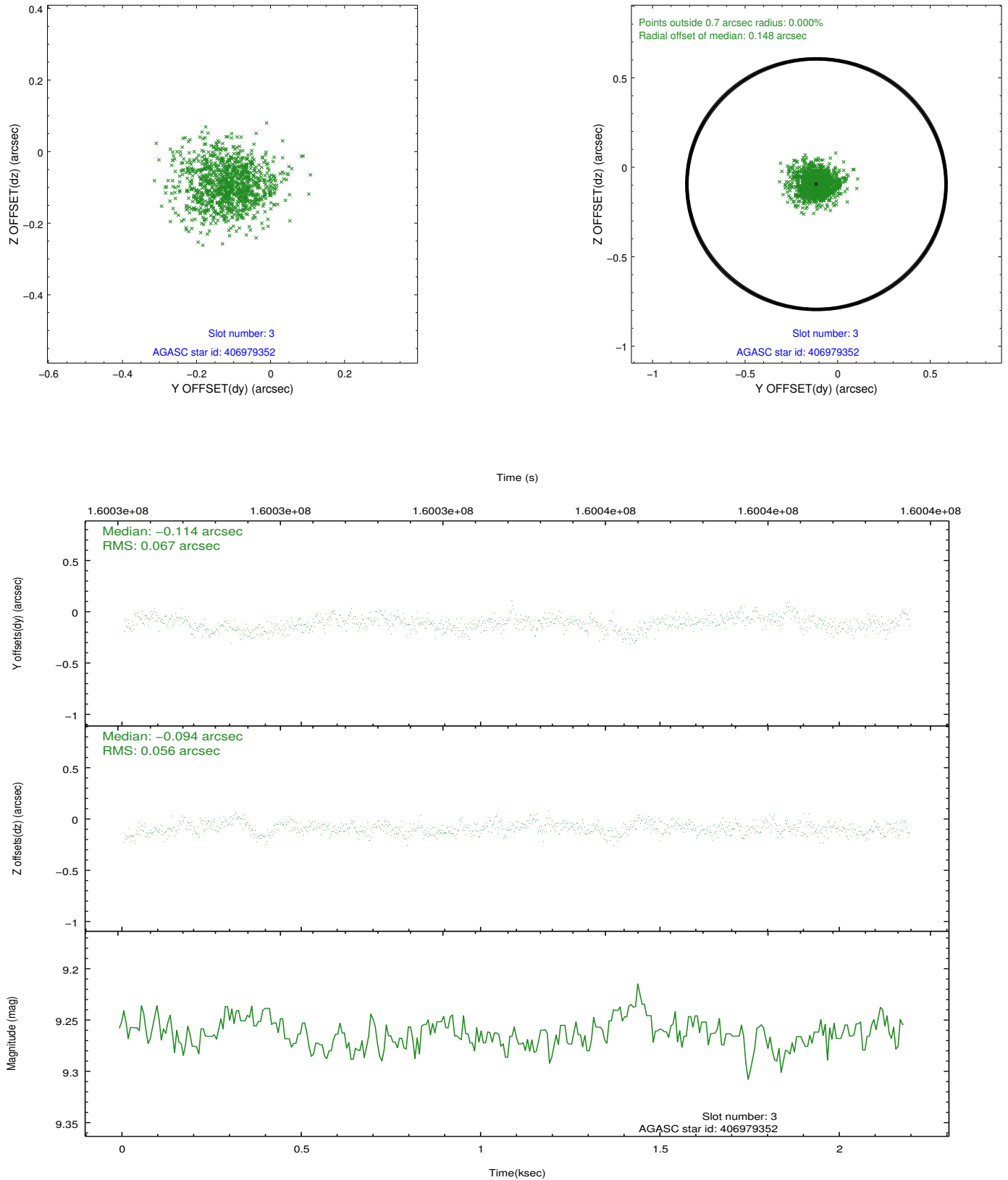
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-S-1	7.03	535	0.162	-0.160	0.007	0.012	0.000000	0.000000	-1157.10	-457.88
1	FID	HRC-S-2	7.02	535	0.086	-0.095	0.004	0.007	0.000000	0.000000	1240.35	-451.31
2	FID	HRC-S-3	7.05	535	0.142	-0.047	0.007	0.012	0.000000	0.000000	-1157.52	570.92
3	GUIDE	406979352	9.26	1069	-0.114	-0.094	0.092	0.157	279.968297	39.230258	2058.74	352.14
4	GUIDE	406985120	7.43	1069	-0.030	-0.050	0.073	0.115	278.839732	38.894839	-1257.74	982.31
5	GUIDE	406989616	8.23	1069	0.091	0.019	0.066	0.111	279.202881	38.520843	-1106.78	-699.26
6	GUIDE	407521232	8.65	1065	-0.021	-0.007	0.067	0.107	279.628883	39.431715	1629.78	1463.79
7	GUIDE	406987320	9.69	1067	0.081	0.134	0.126	0.192	279.420366	38.109597	-1360.56	-2280.96

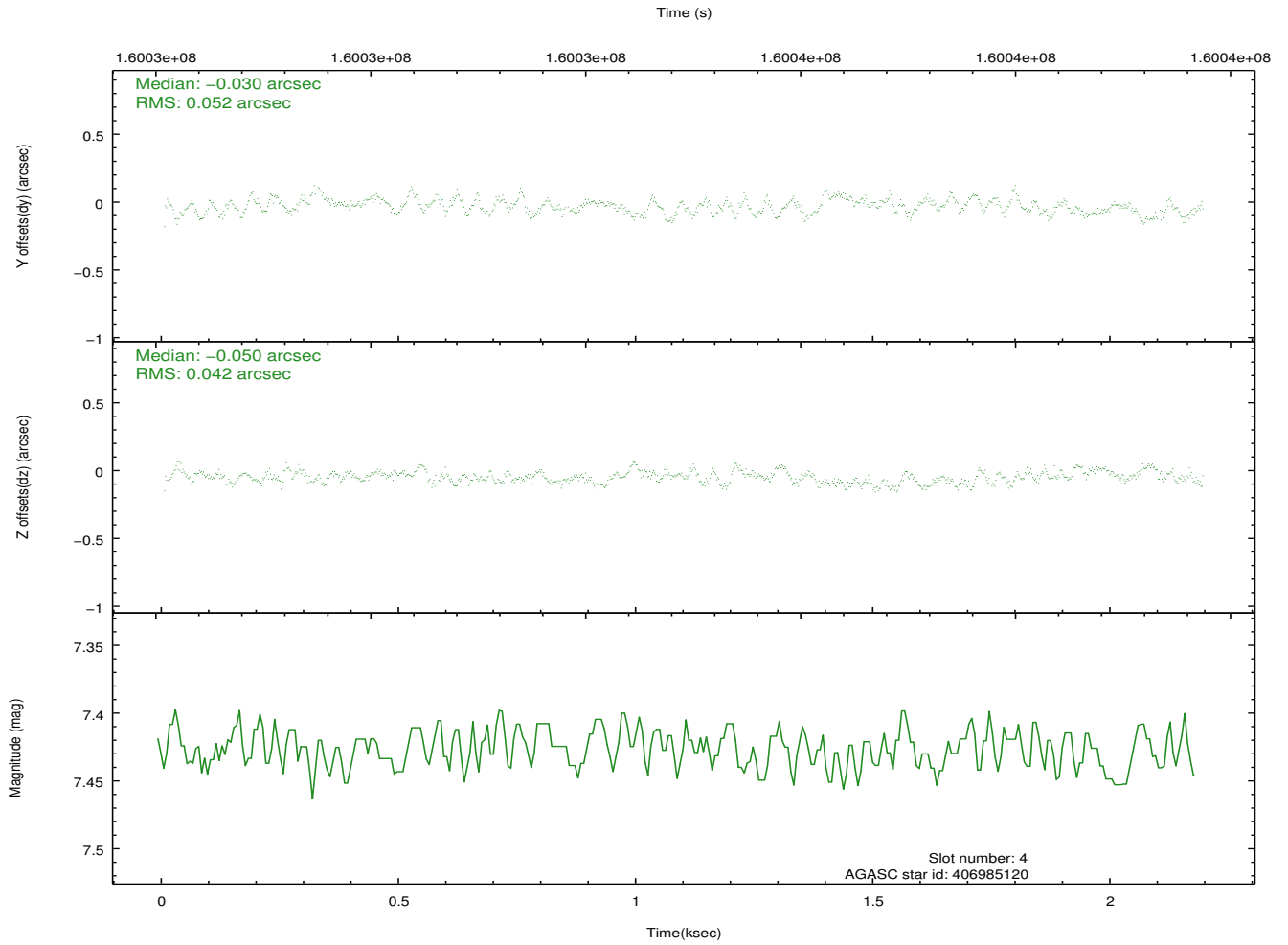
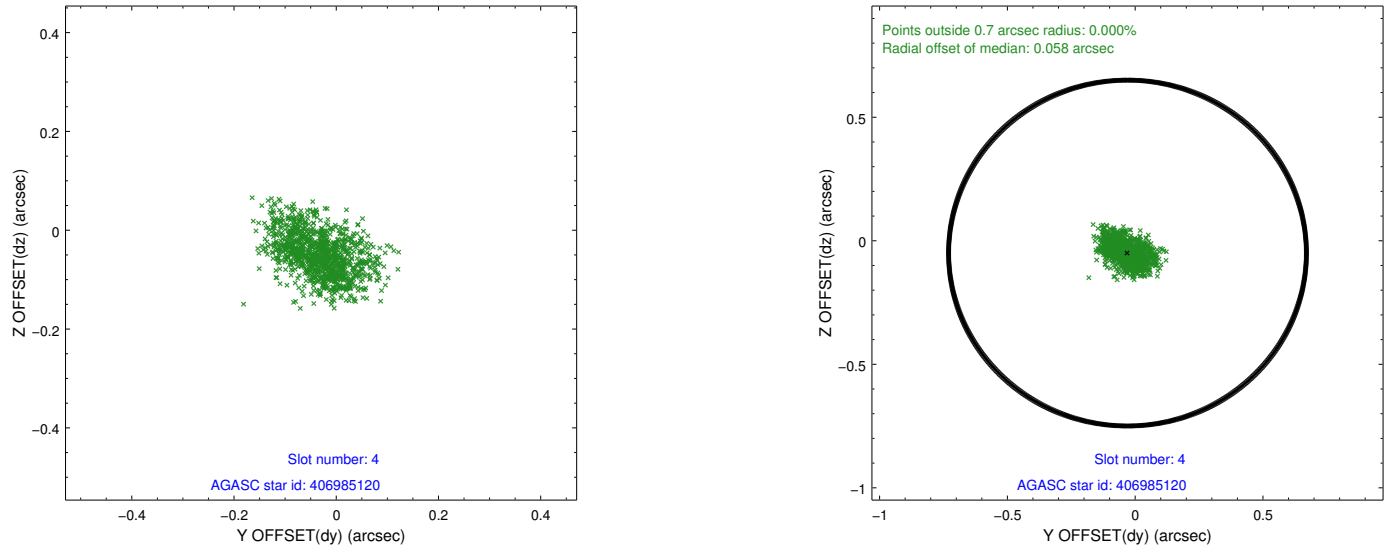


## 2.4 Star Slots

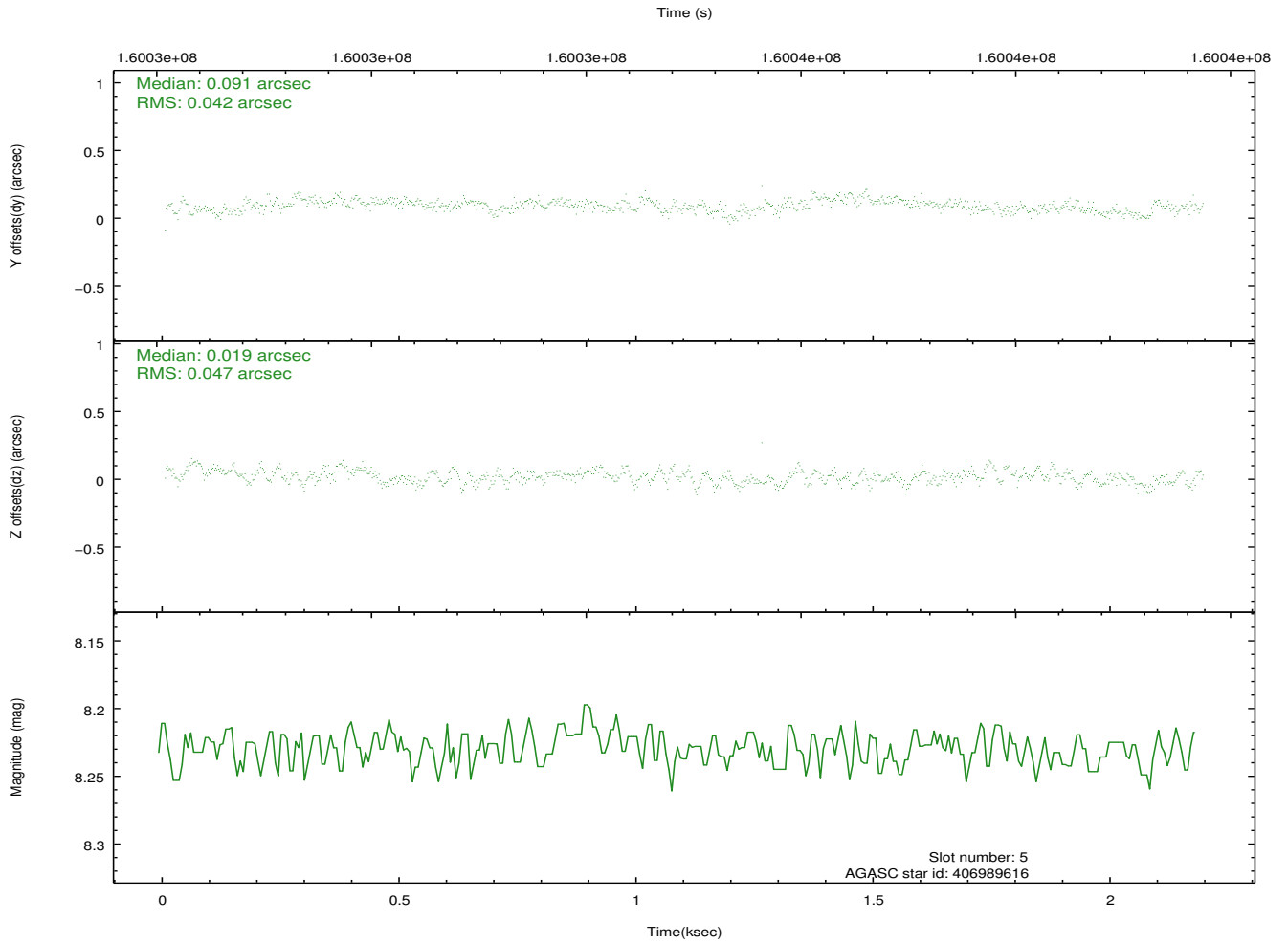
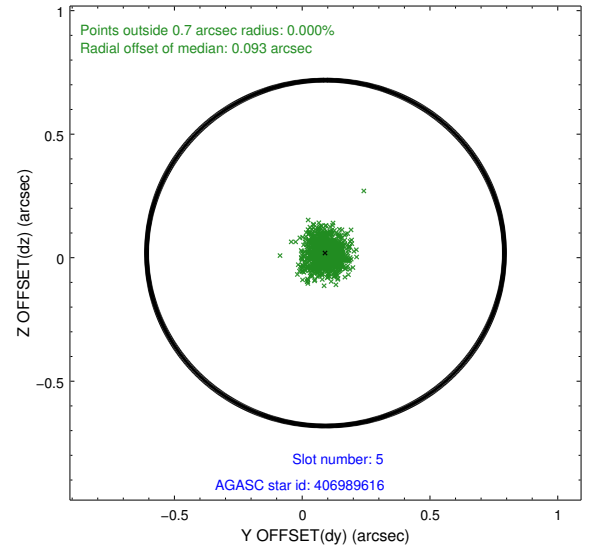
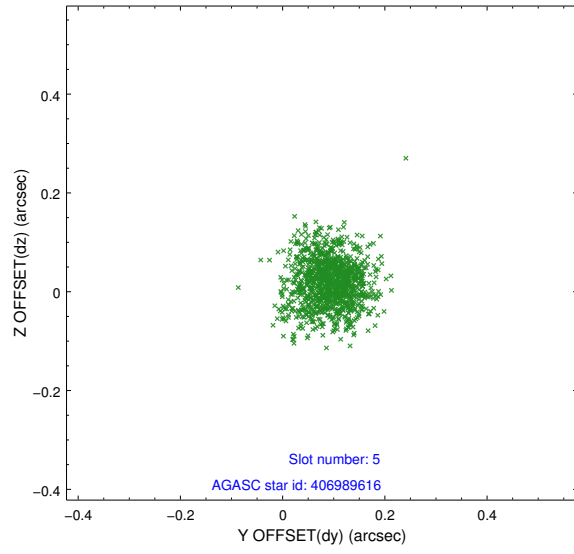
### 2.4.1 Slot 3



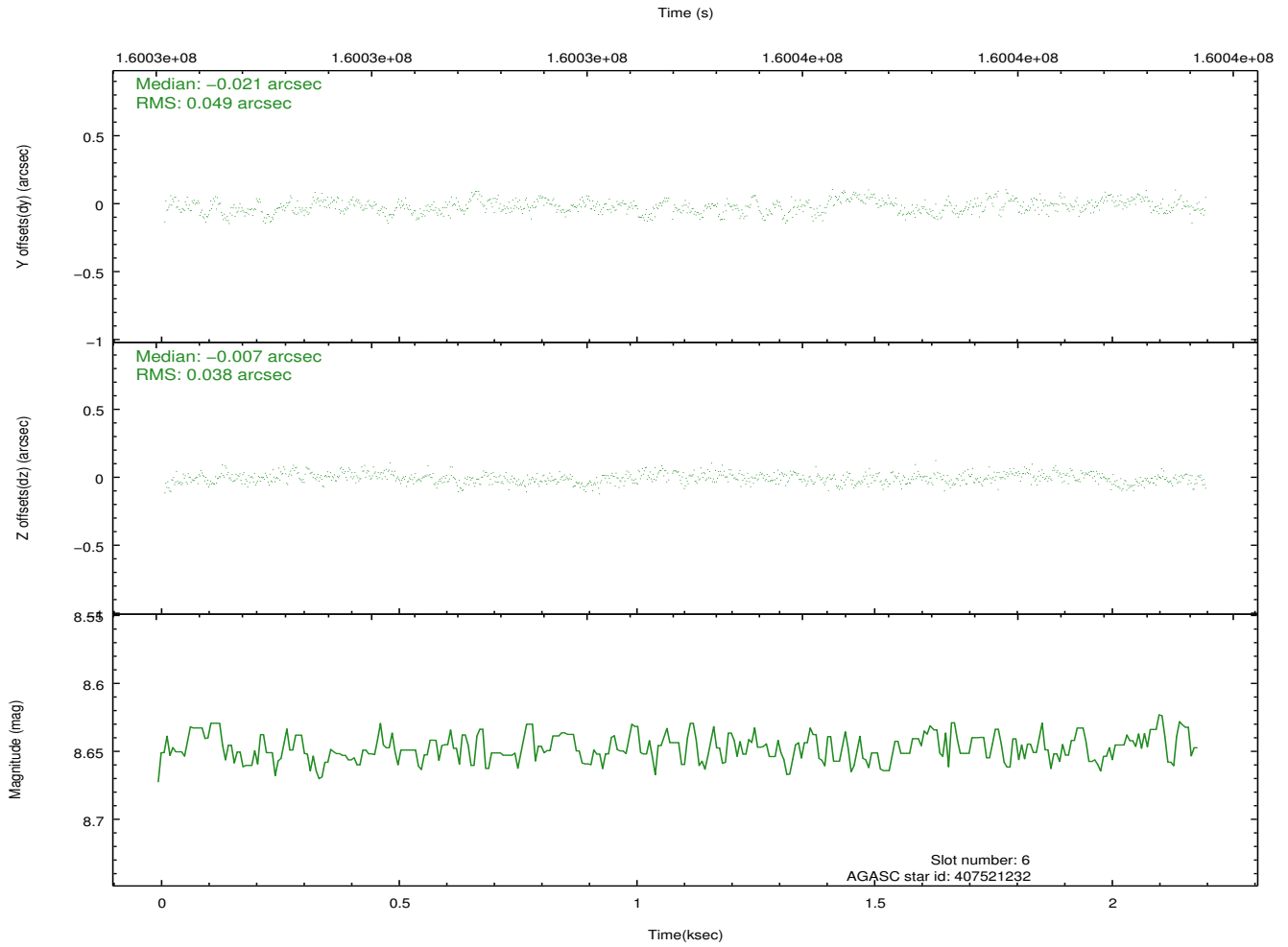
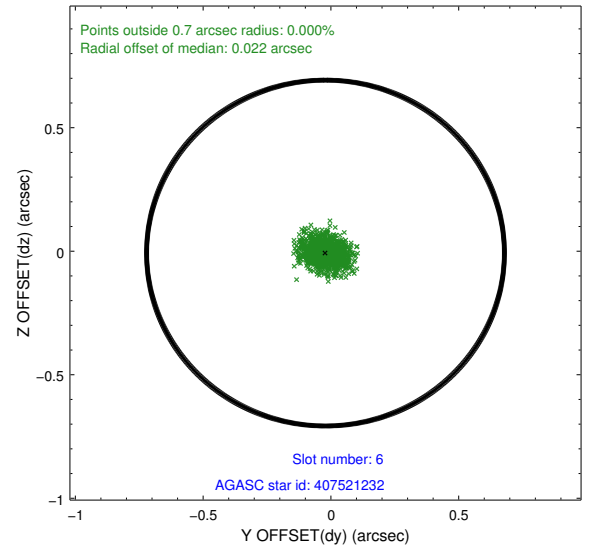
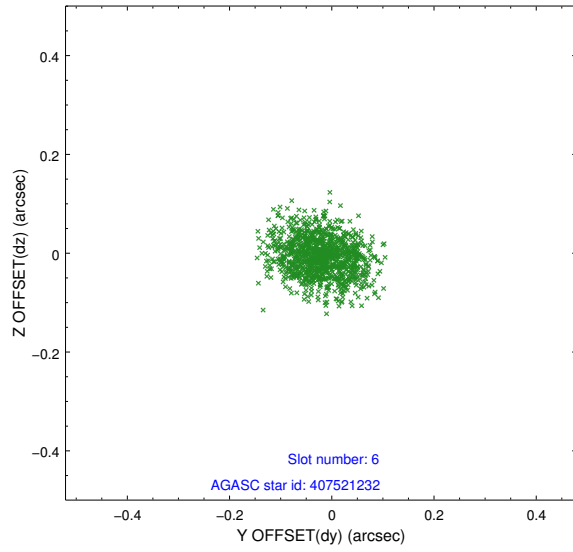
## 2.4.2 Slot 4



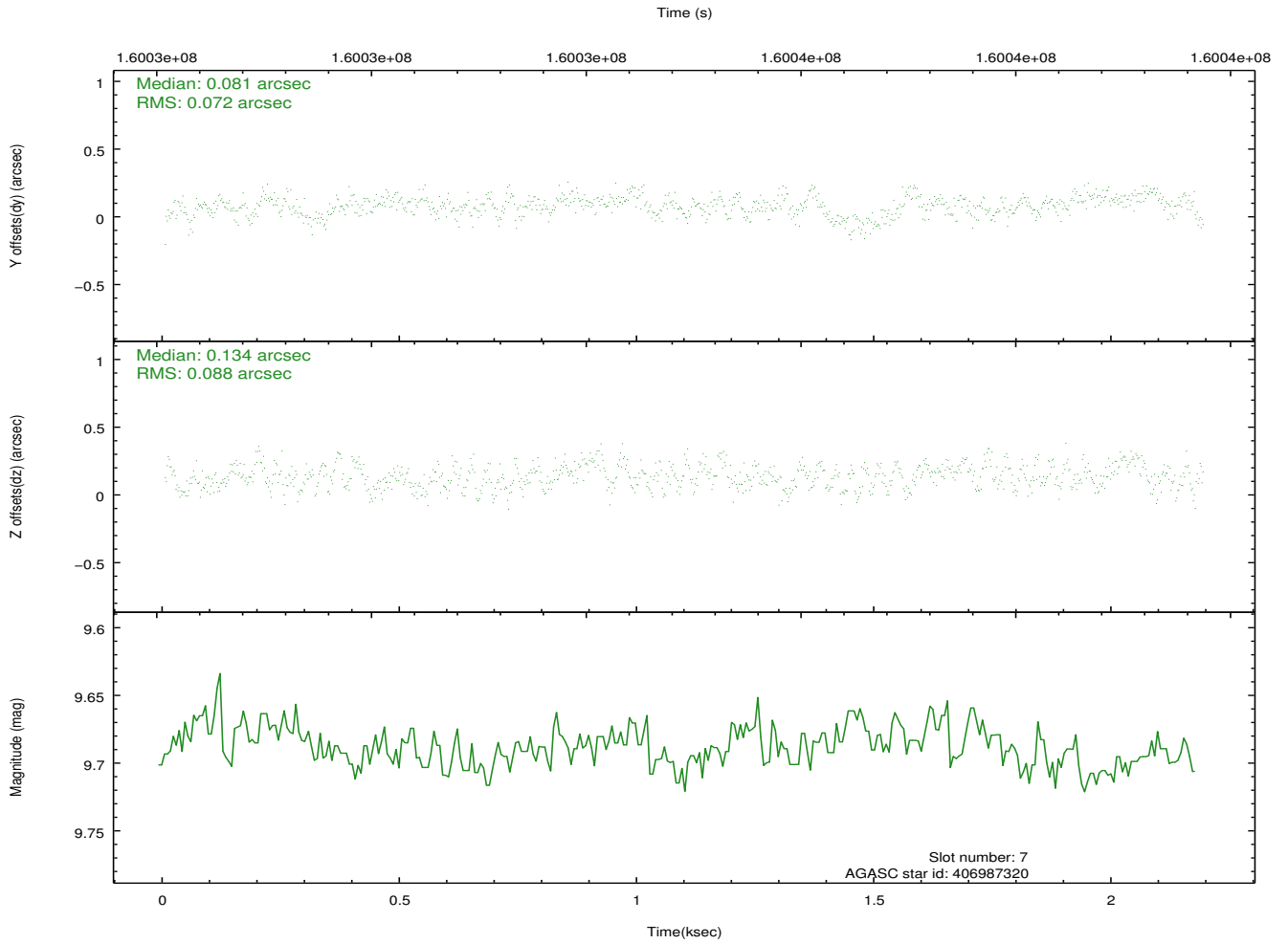
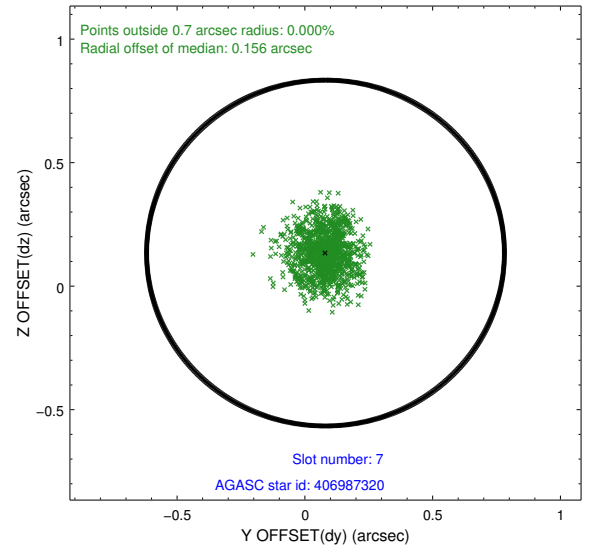
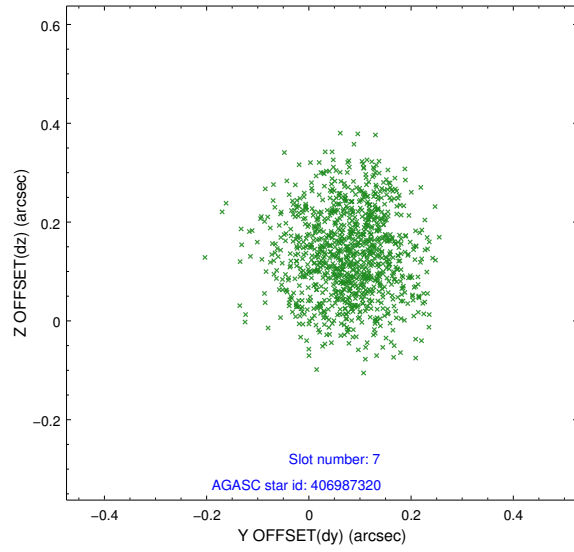
### 2.4.3 Slot 5



## 2.4.4 Slot 6

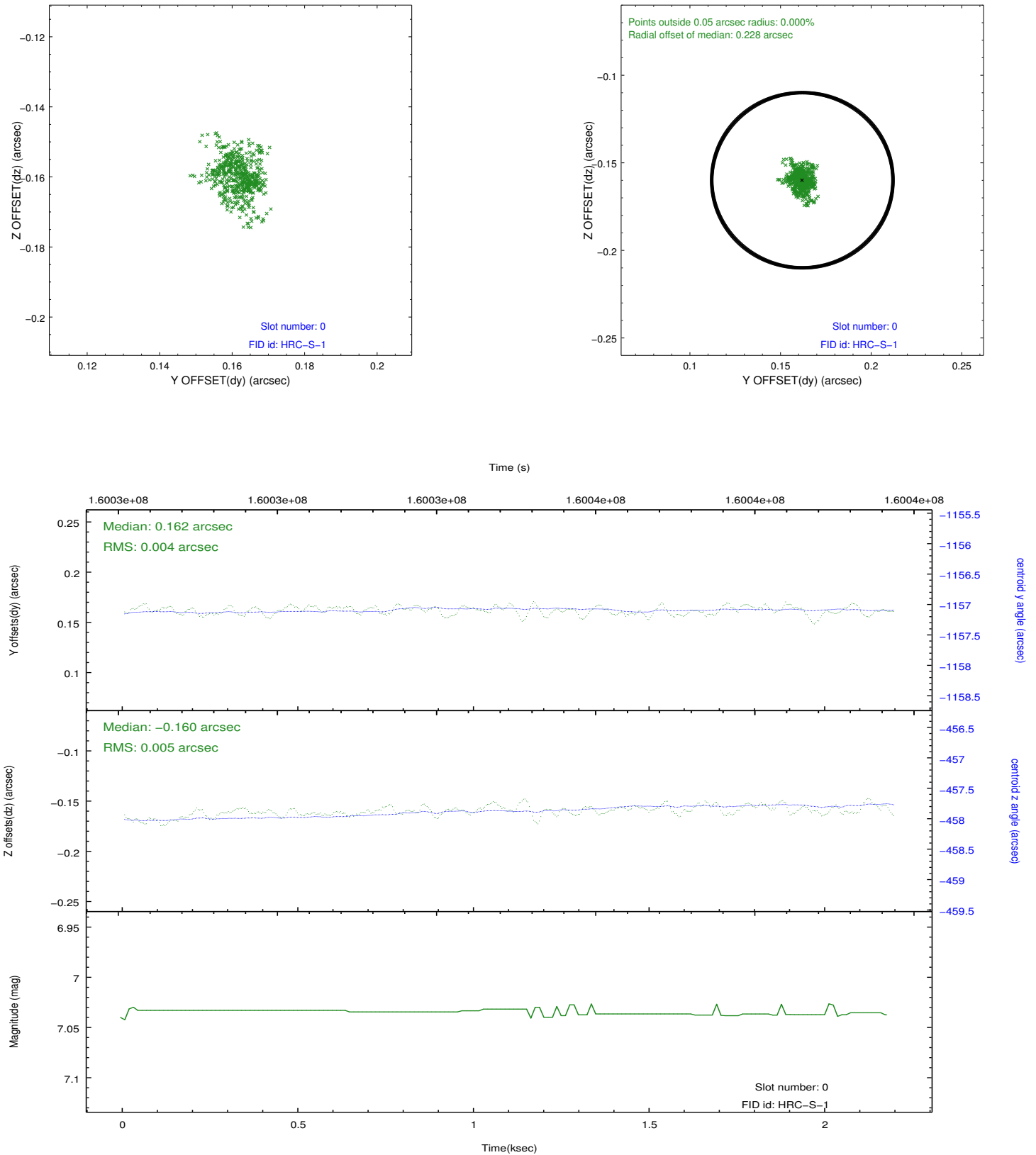


## 2.4.5 Slot 7

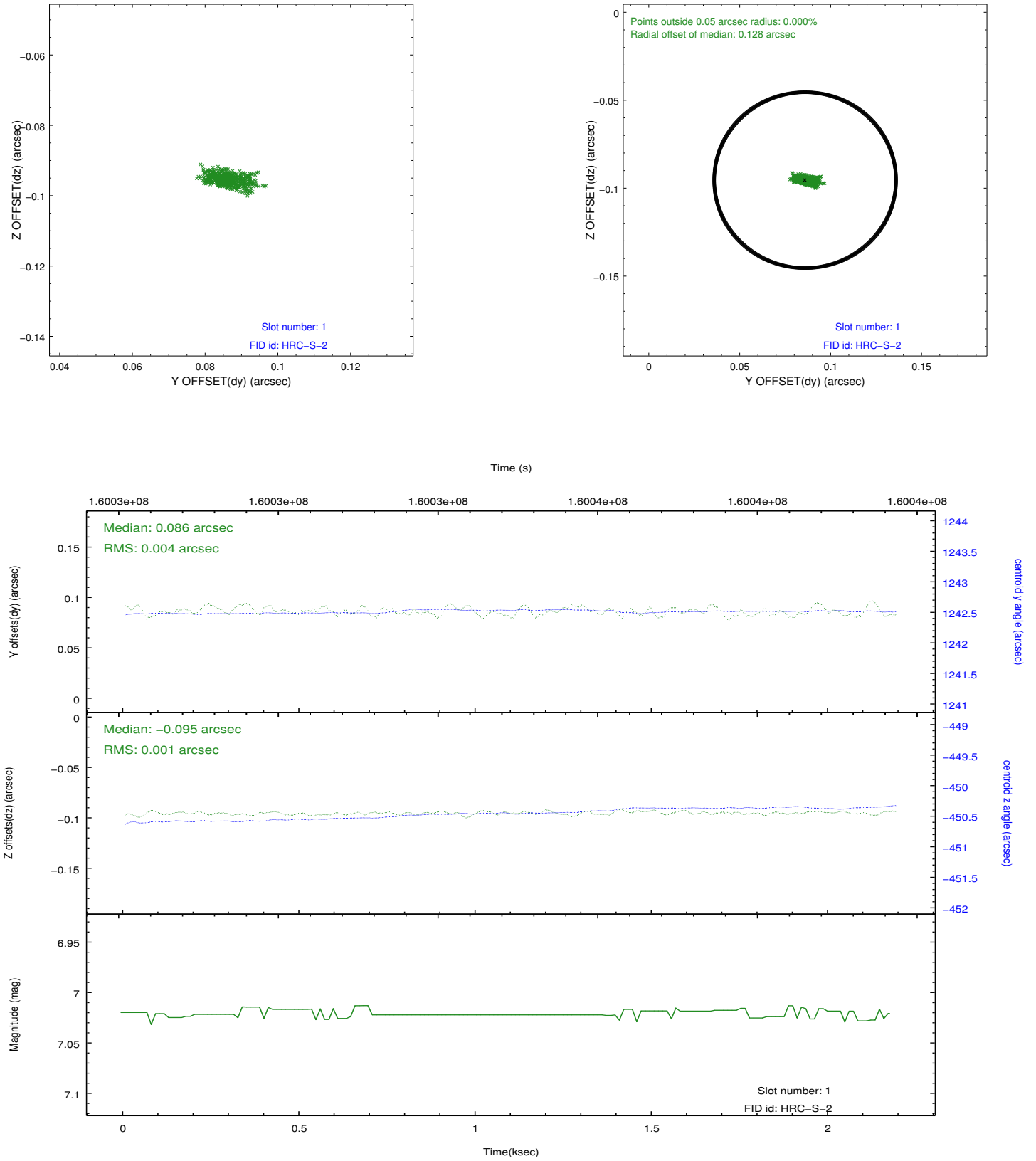


## 2.5 FID Slots

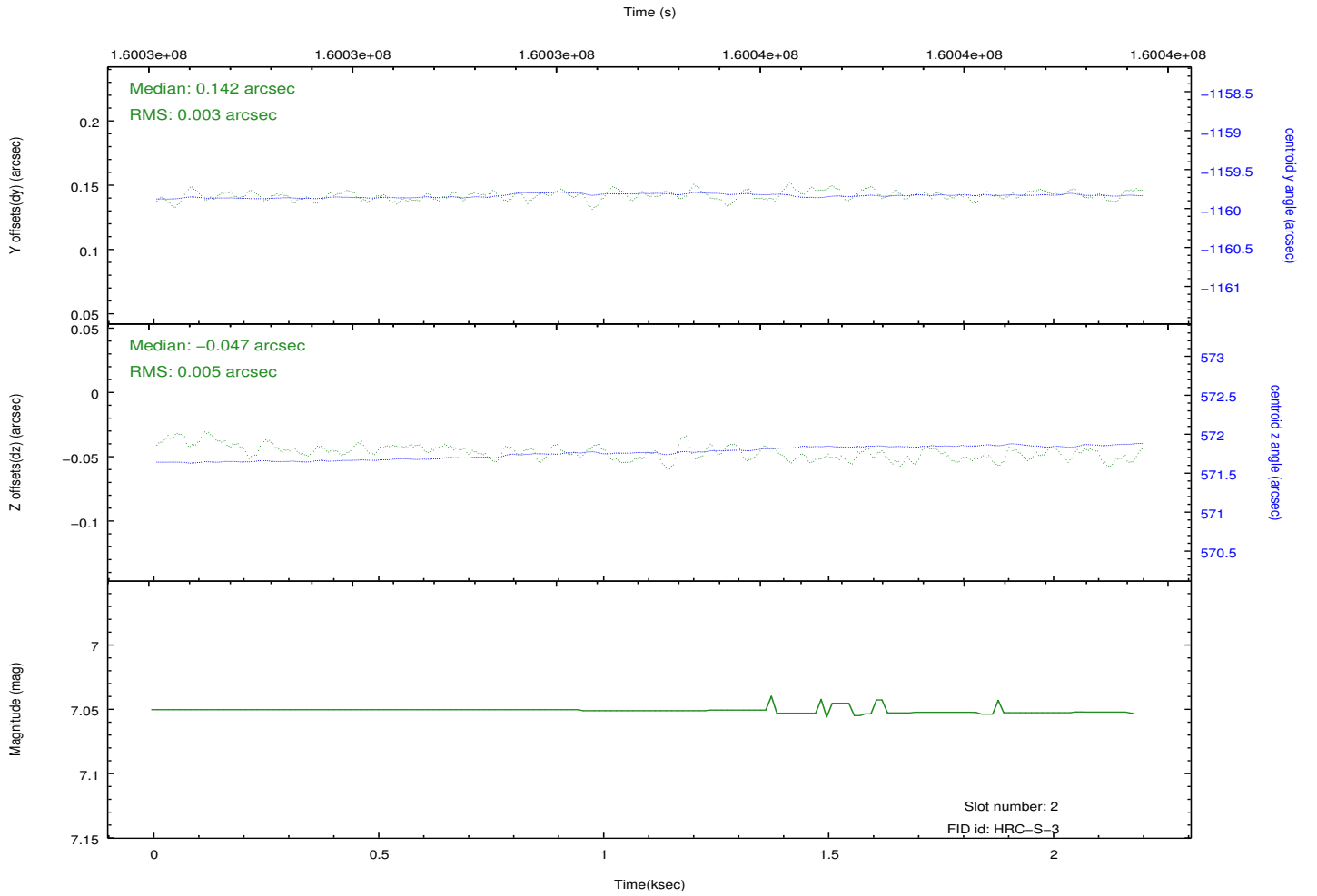
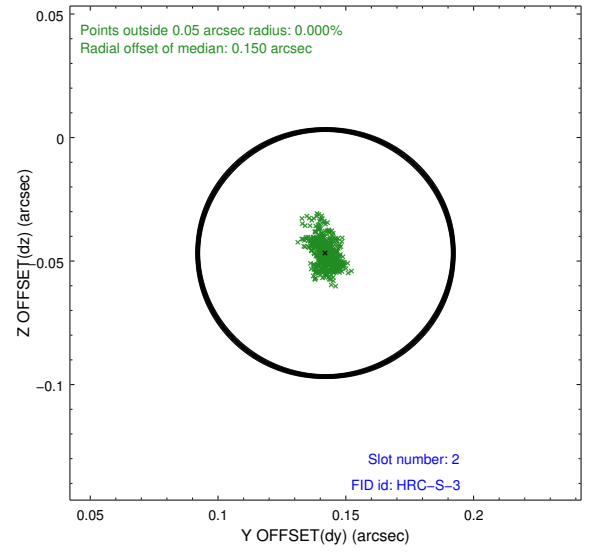
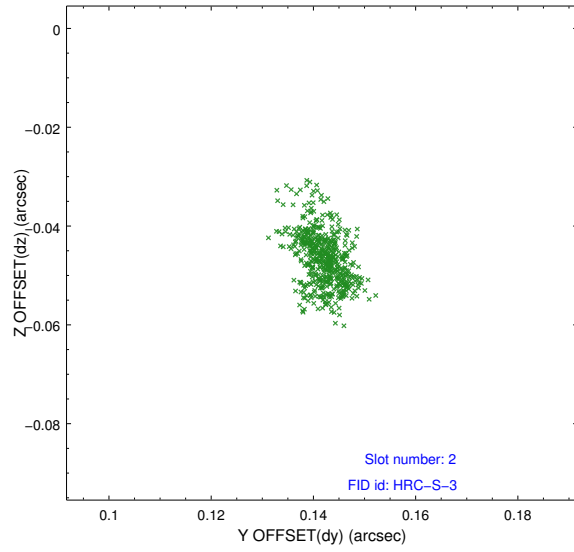
### 2.5.1 Slot 0



## 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)	2012.11.01
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.141

### A.2 Comments

Window constraint met.