

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 10641 - L2 Version 3  
Chandra X-Ray Center

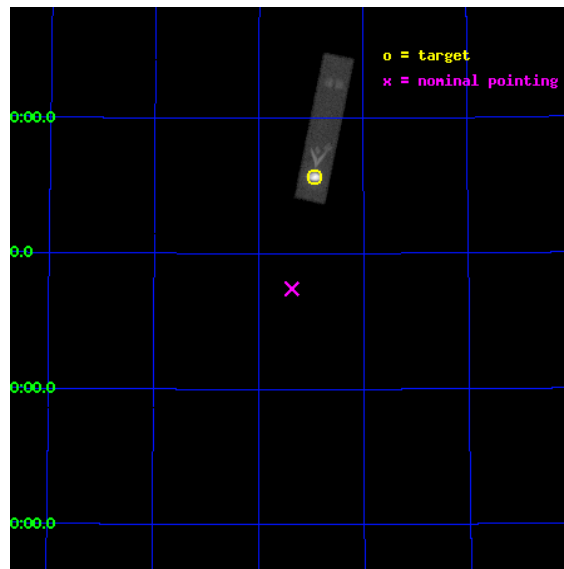
L2 Processing Date : Aug 13 2012

## 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	290877	Sequence number
obs_id	10641	Observation id
title	AO-10 Measurements of the optical/UV Transmission of the HRC 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	279.34241618047	Nominal RA [deg]
dec_nom	38.370821633239	Nominal Dec [deg]
roll_nom	281.57111306347	Nominal Roll [deg]
revision	3	Processing version of data
ontime	2186.5813600421	[s]
livetime	812.35952888	Ontime multiplied by DTCOR
l2events	386830	Number of level 2 events

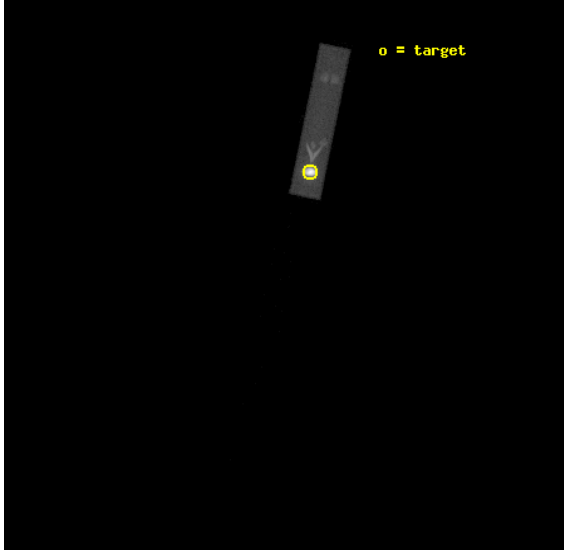


## 2 OBI

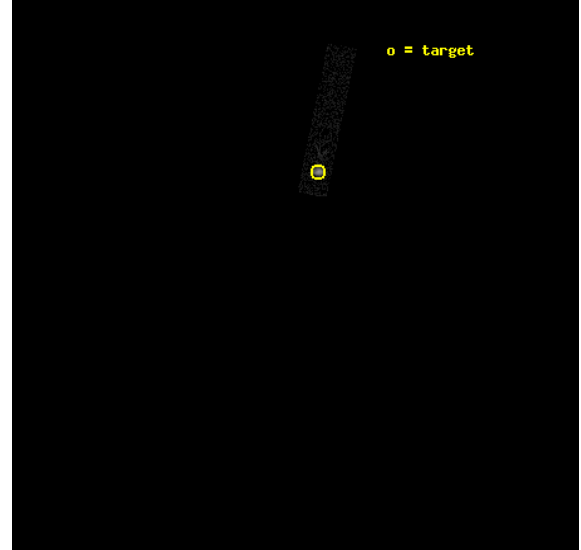
### 2.1 OBI

#### 2.1.1 Images

Level 1 Image



Level 1 Bad Events



## 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	2186.5813600421	[s]
caldbver	4.5.1.1	&#160	l1events	444307	Number of level 1 events
date	2012-08-13T17:38:29	Date and time of file creation			
revision	3	Processing version of data			

## 2.1.3 Events

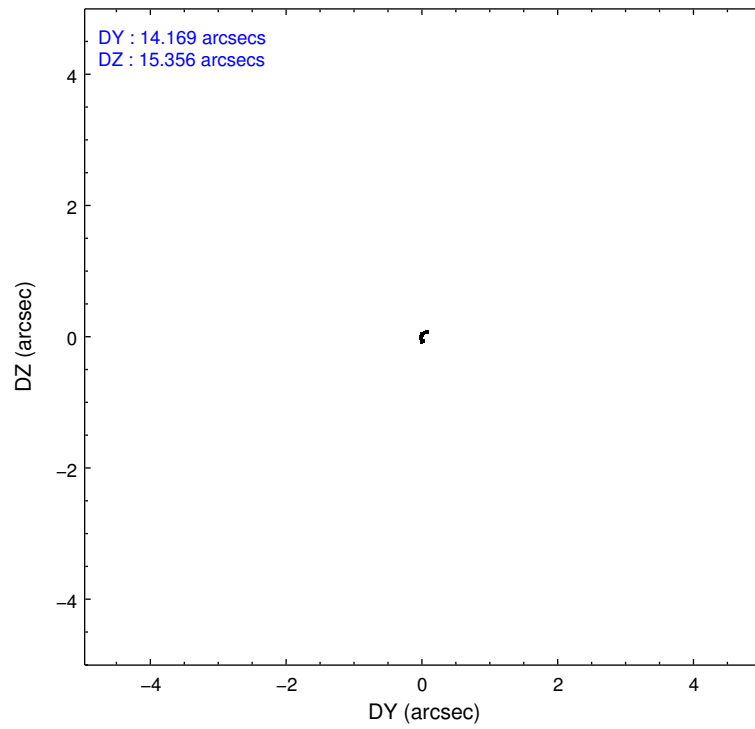
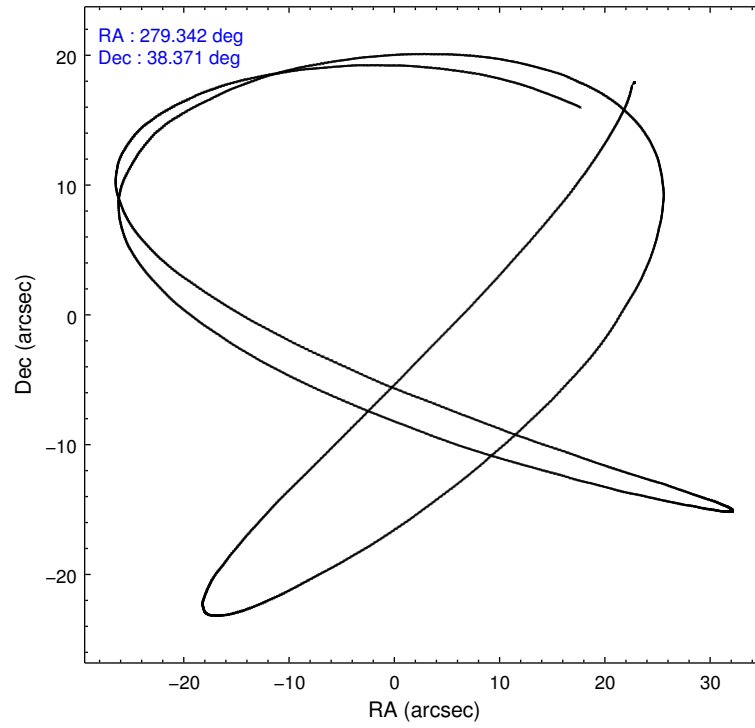
Level 1 Events

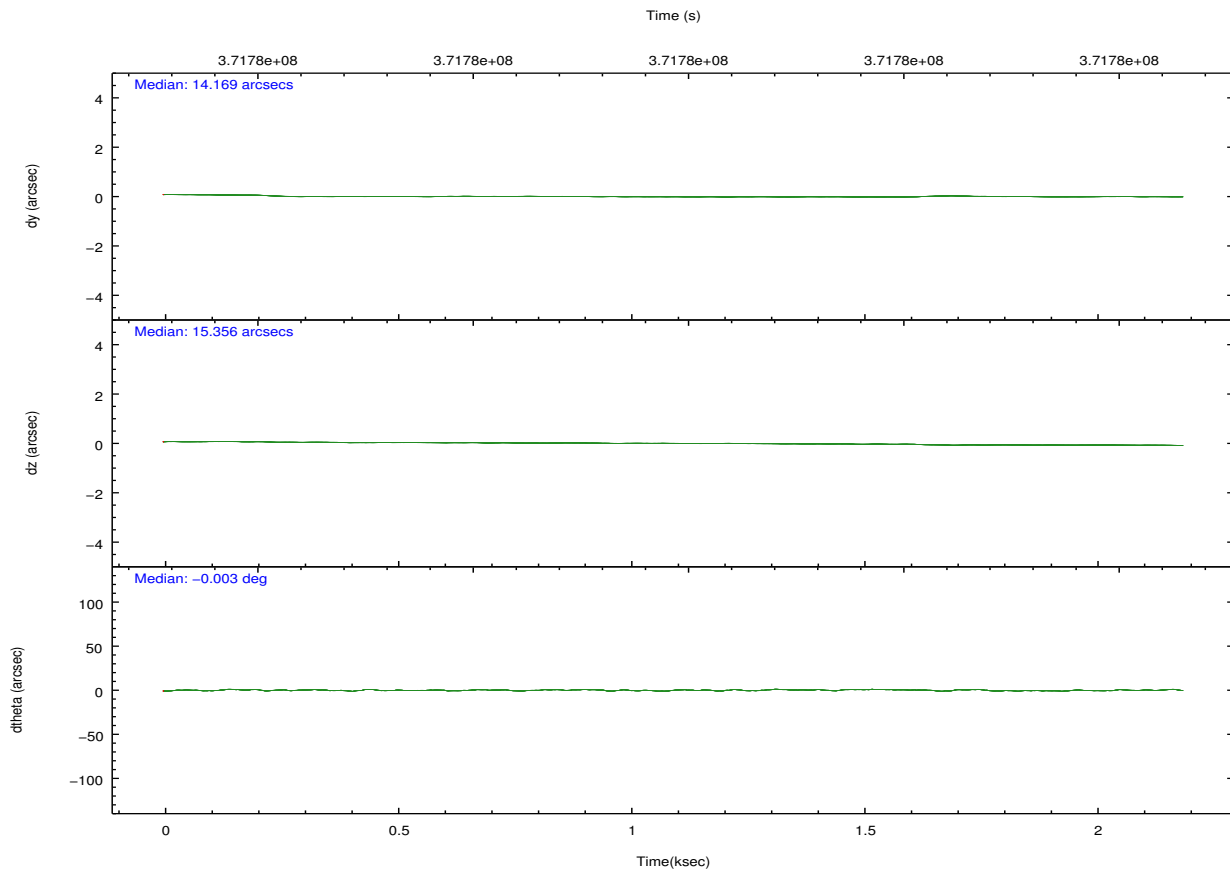
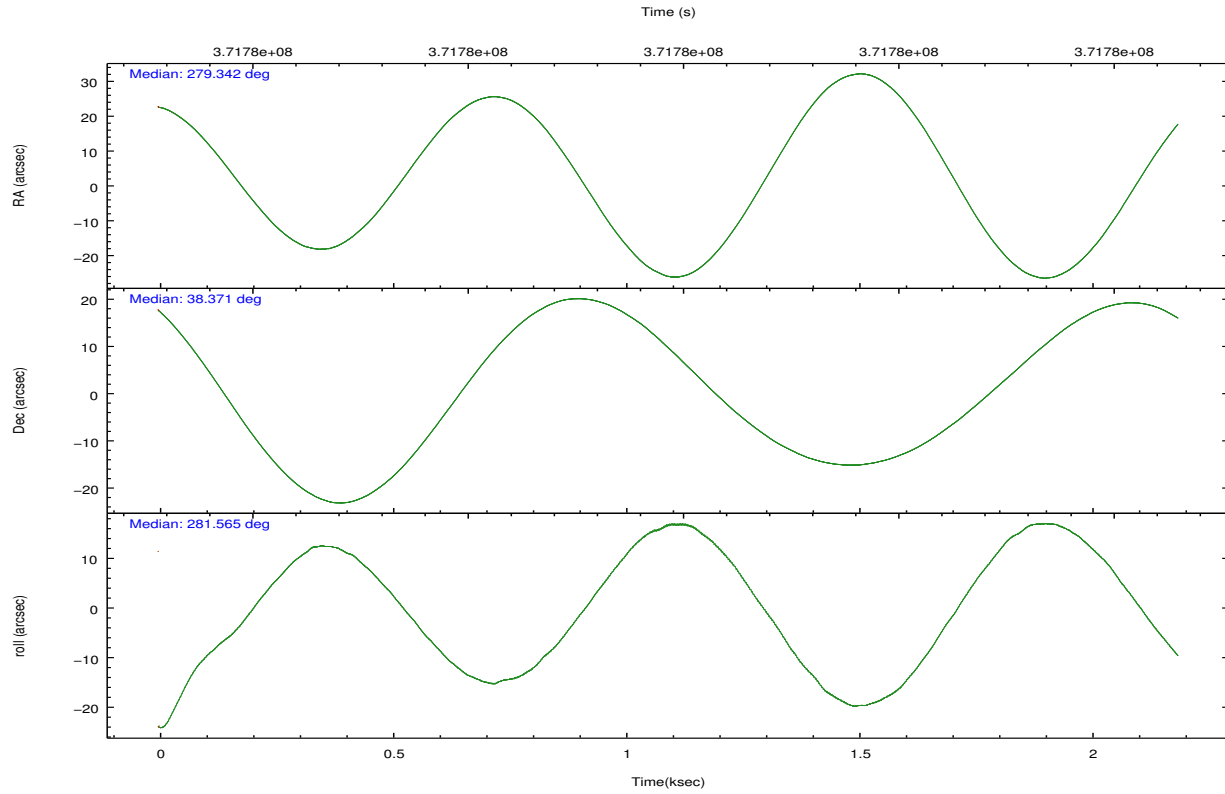
	<b>segment 1</b>	<b>segment 2</b>	<b>segment 3</b>
level 1 events	444262	40	5
rejected events	41096	24	5
rejected %	9%	60%	100%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	HRC	HRC	Obspar format version number	7	7
Detector	HRC-S	HRC-S			
Grating	NONE	NONE			
Data mode	OBSERVING	OBSERVING	Obspar file type	PREDICTED	ACTUAL
Observation mode	POINTING	POINTING			
[deg] Pointing RA	279.317104	279.342416180468	Obspar update status	NONE	UPDATED
[deg] Pointing Dec	38.391349	38.37082163323925			
[deg] Pointing Roll	281.519551	281.5711130634668			
[s] Window start time (MET)	368150466.184000	368150466.184000			
[s] Window stop time (MET)	375926466.184000	375926466.184000			
[mm] SIM focus pos	-1.533336	-1.526339935833849			
[mm] SIM defocus	7.710433287538843e-07	0.006996703570447904			
[mm] SIM translation stage pos	250.455976	250.466033080201			
[mm] SIM translation stage offset	0	-0.01005468664627074			
[s] Observation start time (MET)	371777559.184000	371777183.3255			
Observation start date	2009-10-12T23:31:33	2009-10-12T23:26:23			
[s] Observation end time (MET)	371779559.184000	371780509.45067			
Observation end date	2009-10-13T00:04:53	2009-10-13T00:21:49			

## 2.3 Aspect



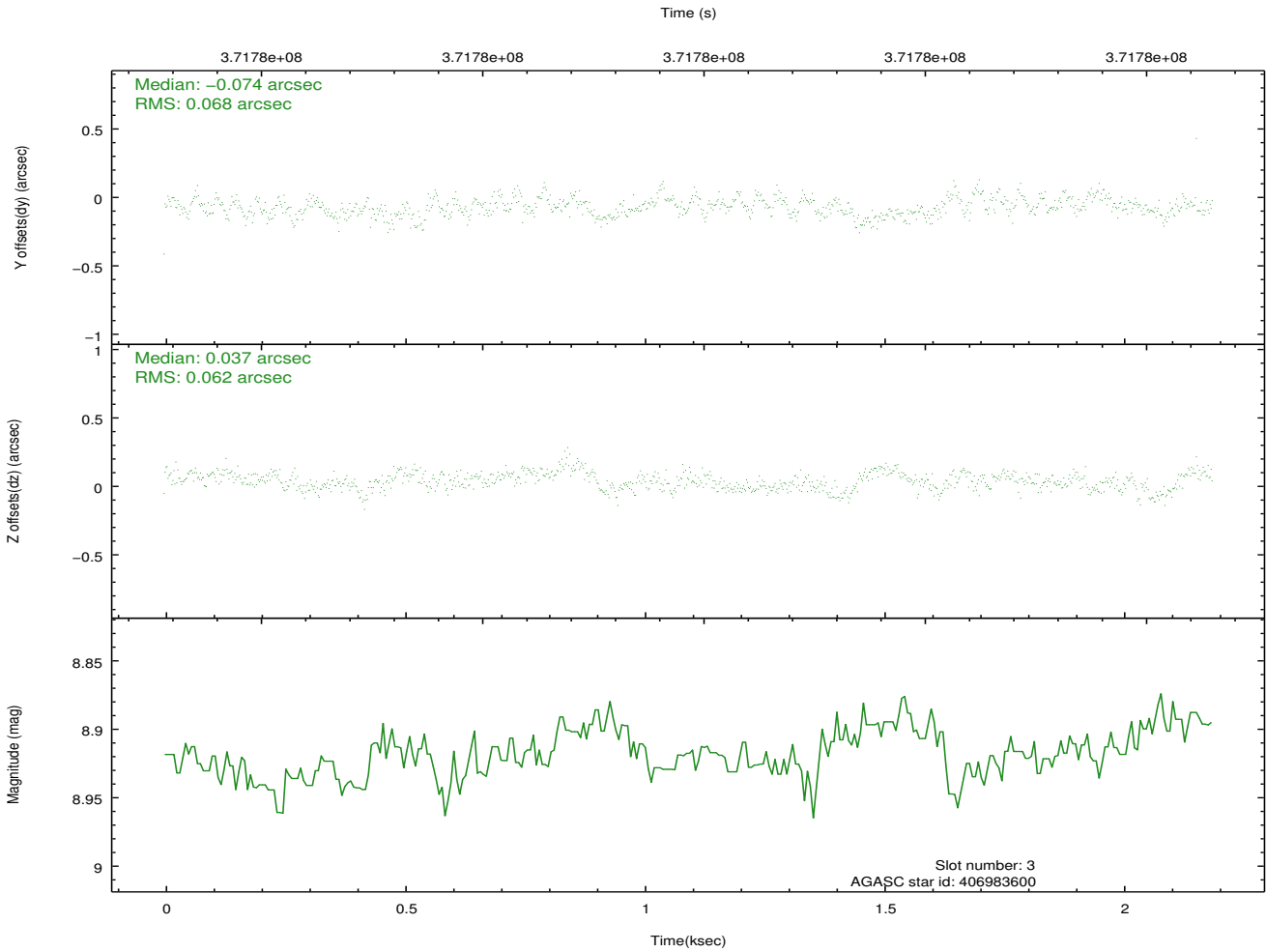
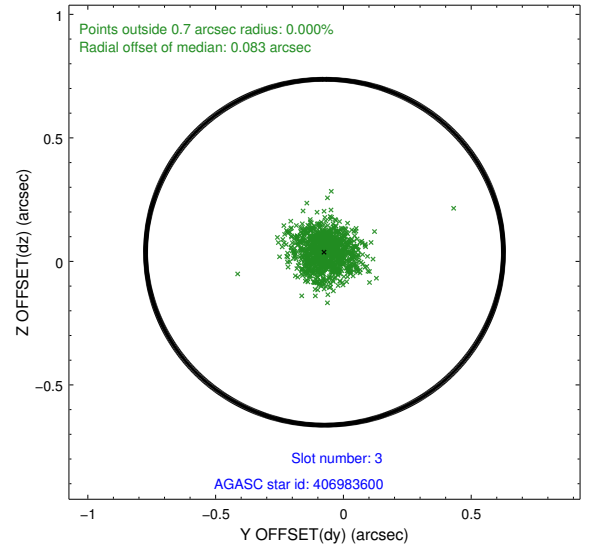
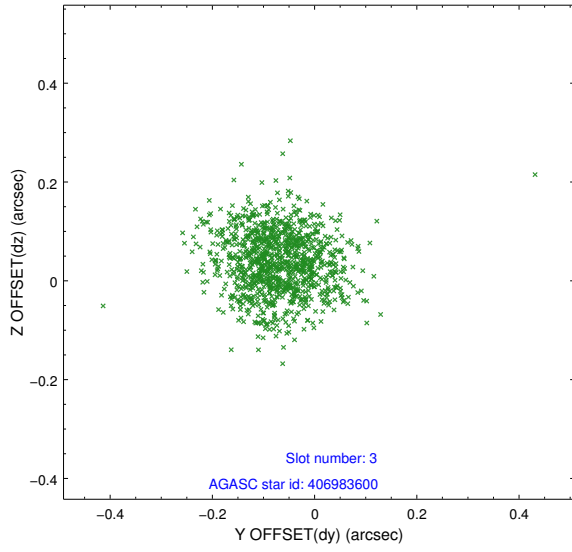


### Slot Statistics

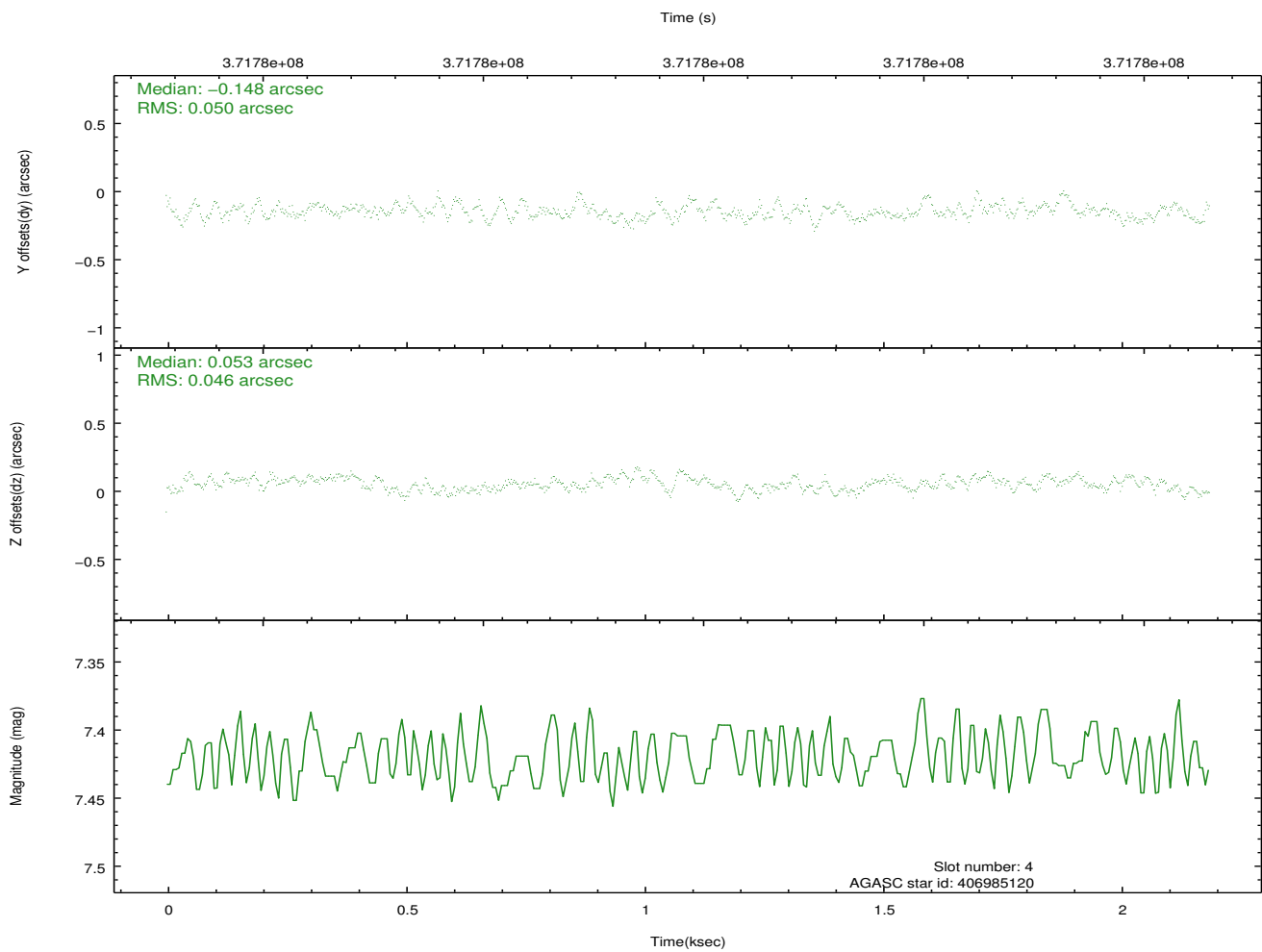
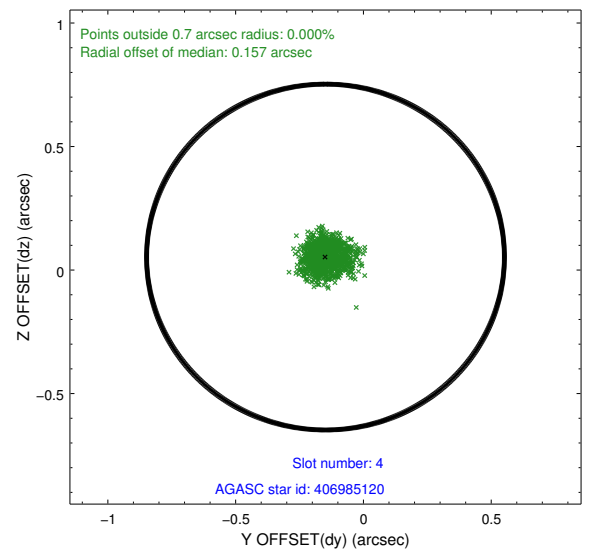
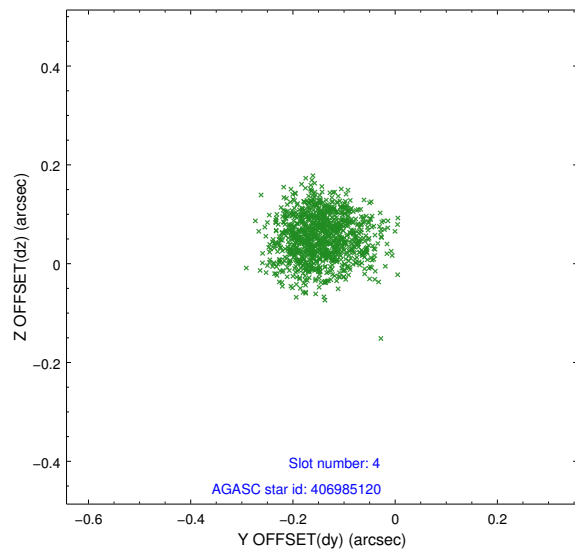
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-S-1	7.01	534	0.069	-0.207	0.007	0.010	0.000000	0.000000	-1168.55	-464.26
1	FID	HRC-S-2	6.98	534	0.219	-0.112	0.004	0.009	0.000000	0.000000	1229.07	-457.67
2	FID	HRC-S-3	7.01	534	0.102	0.017	0.007	0.011	0.000000	0.000000	-1168.94	564.63
3	GUIDE	406983600	8.92	1068	-0.074	0.037	0.098	0.152	279.940957	39.020708	-1876.39	2165.08
4	GUIDE	406985120	7.42	1068	-0.148	0.053	0.074	0.115	278.839732	38.894839	-2047.97	-945.02
5	GUIDE	406992968	7.64	1067	-0.033	-0.061	0.066	0.111	279.925490	37.993090	1741.79	1406.36
6	GUIDE	406993992	7.63	1068	0.044	0.057	0.071	0.117	279.053714	38.034587	1110.76	-985.09
7	GUIDE	406992120	8.76	1067	0.202	-0.084	0.103	0.167	278.923185	37.670464	2317.31	-1617.44

## 2.4 Star Slots

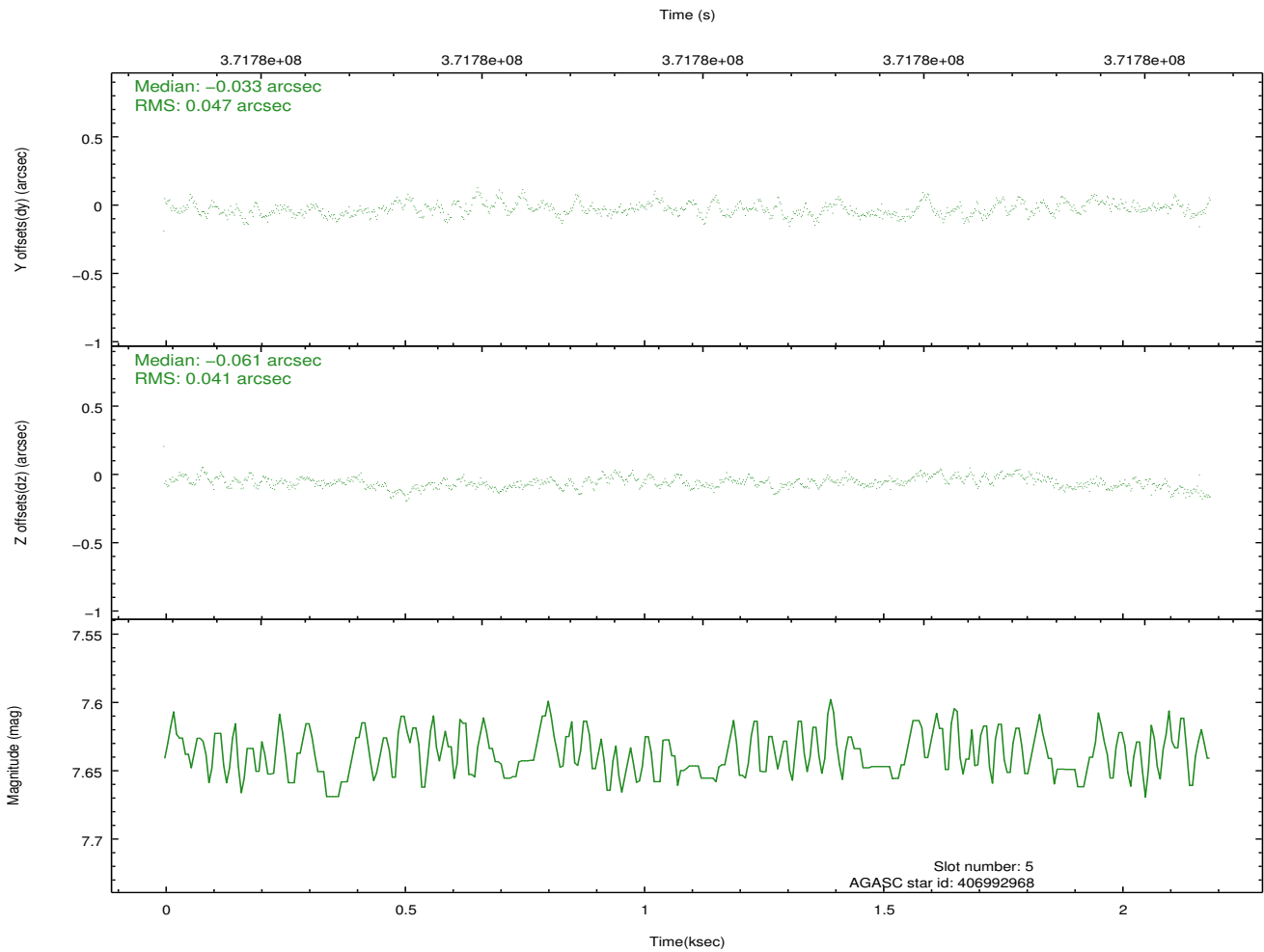
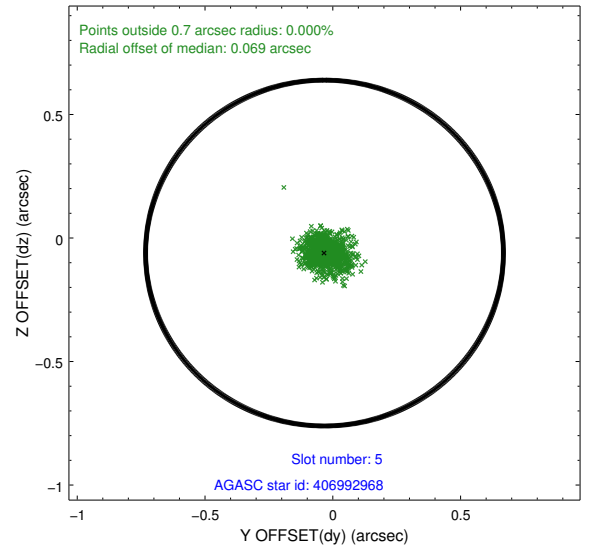
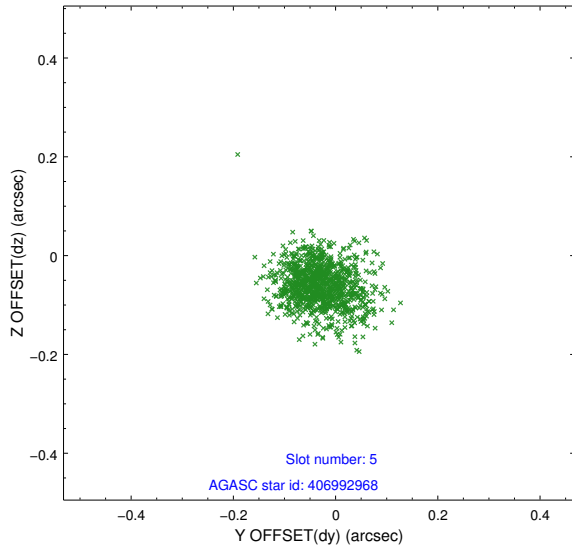
### 2.4.1 Slot 3



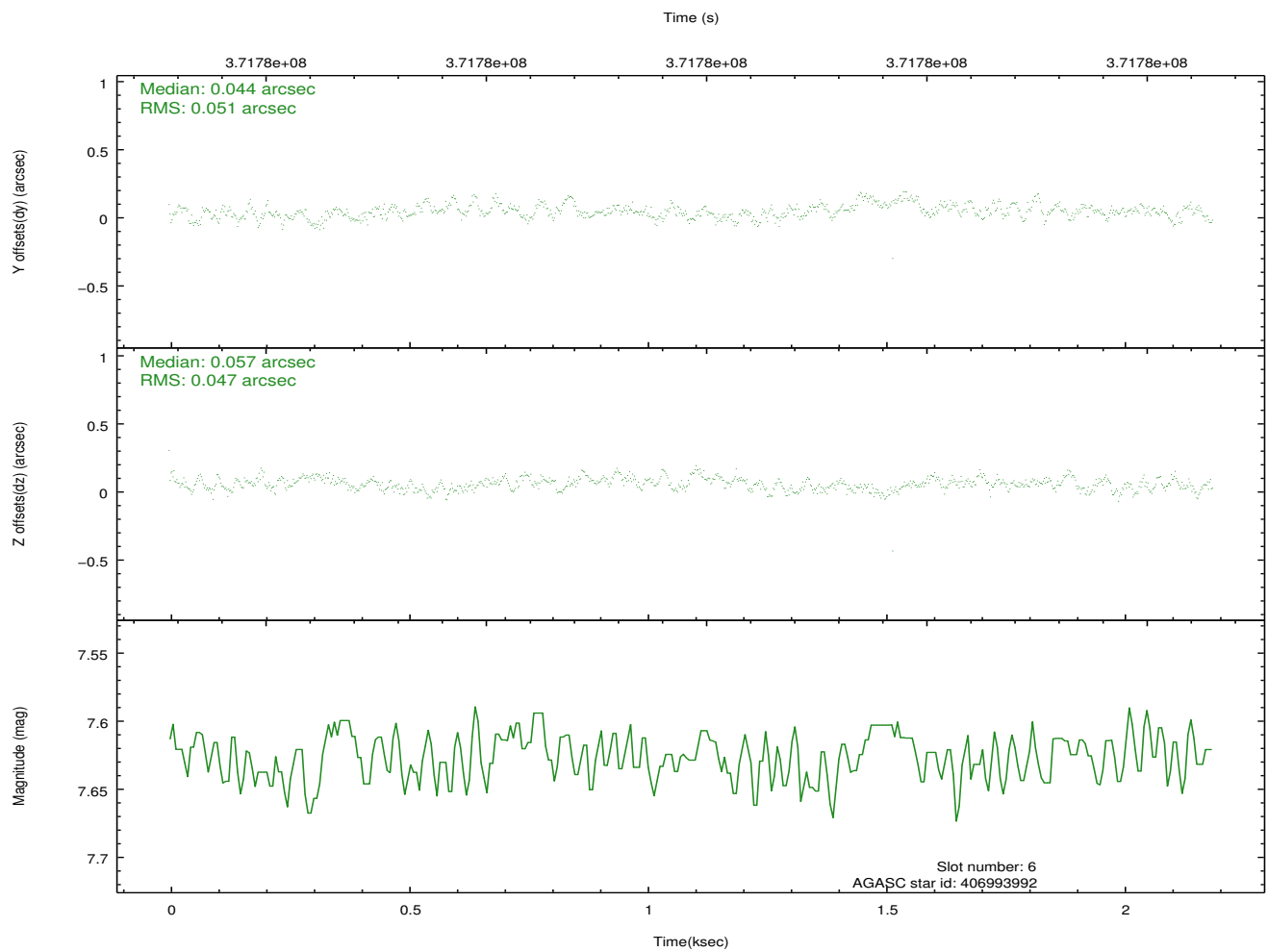
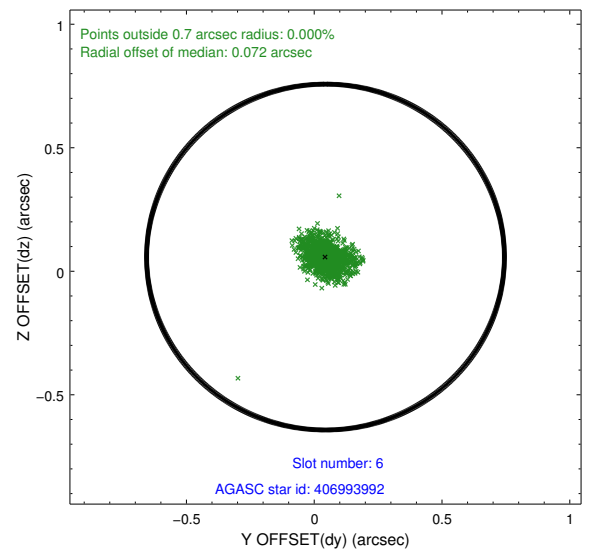
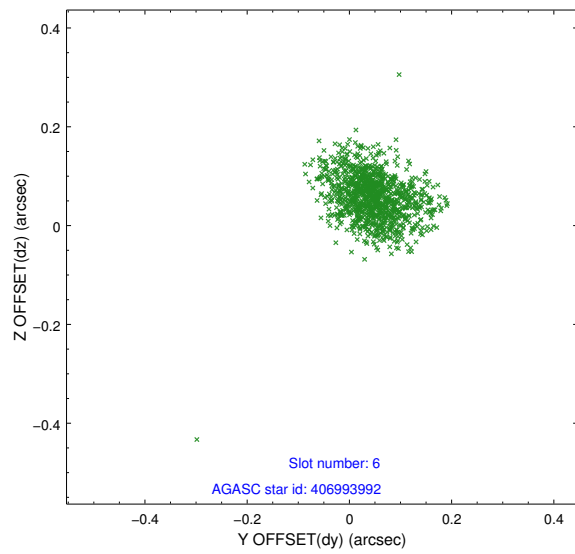
## 2.4.2 Slot 4



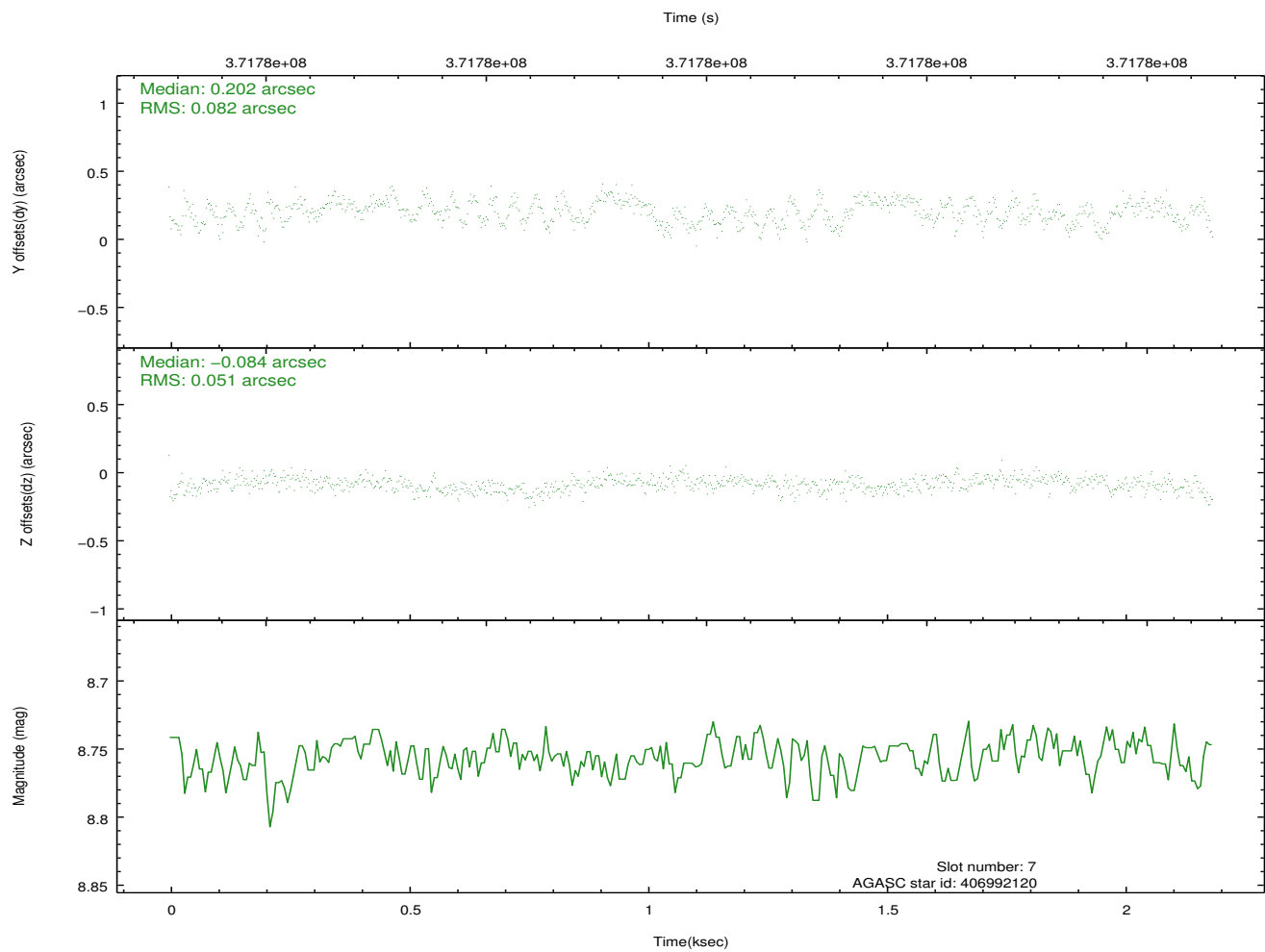
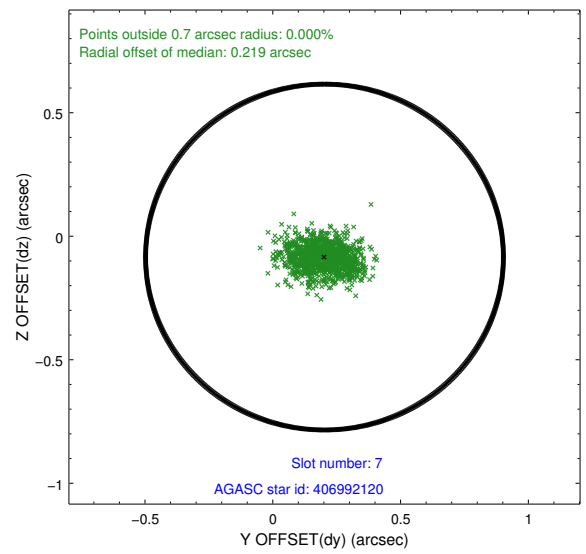
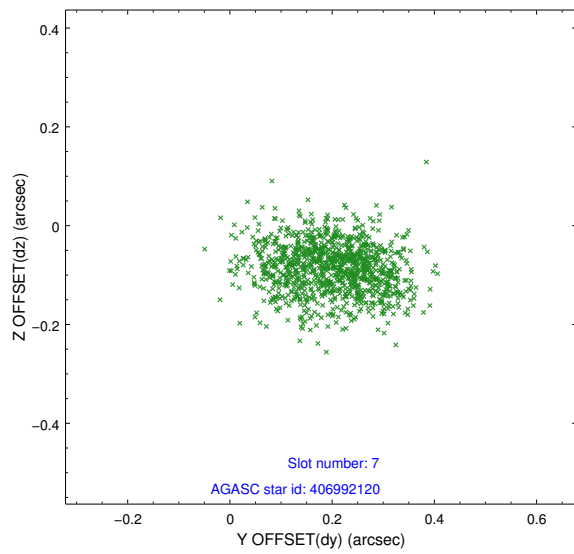
### 2.4.3 Slot 5



## 2.4.4 Slot 6

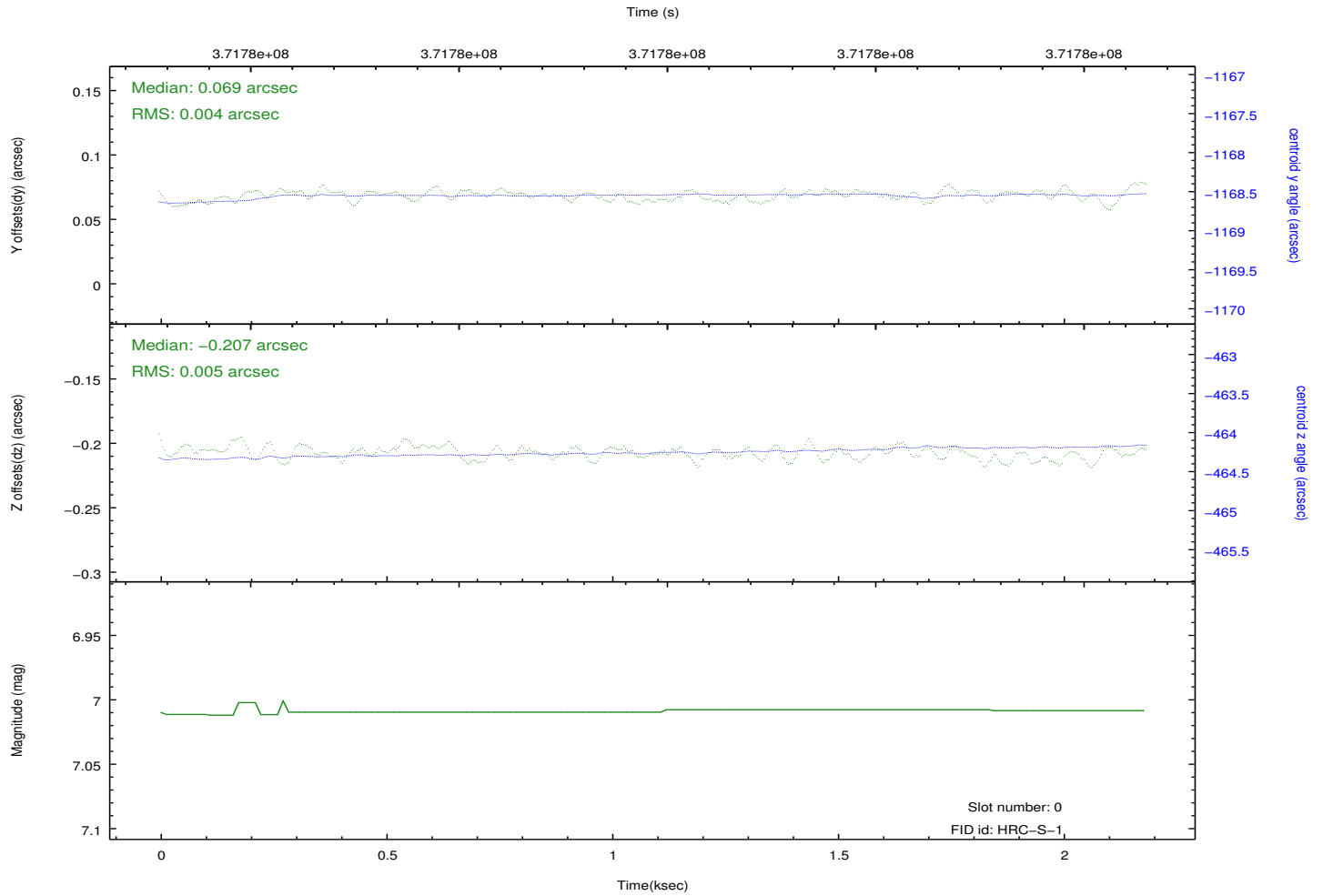
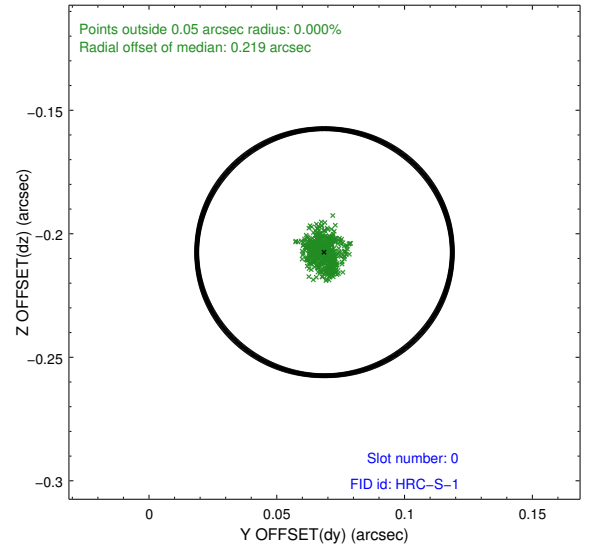
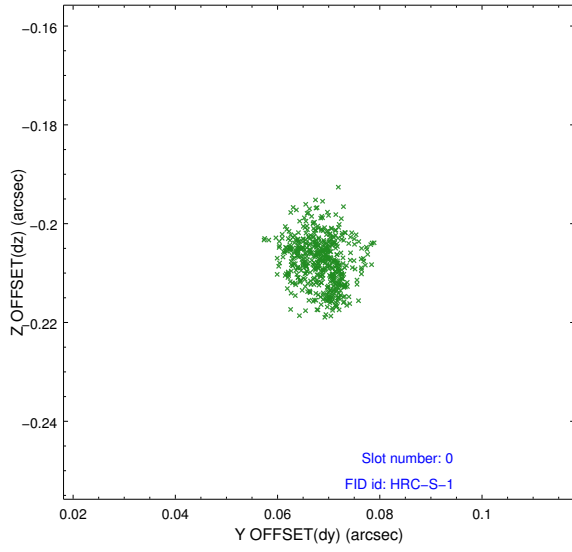


## 2.4.5 Slot 7

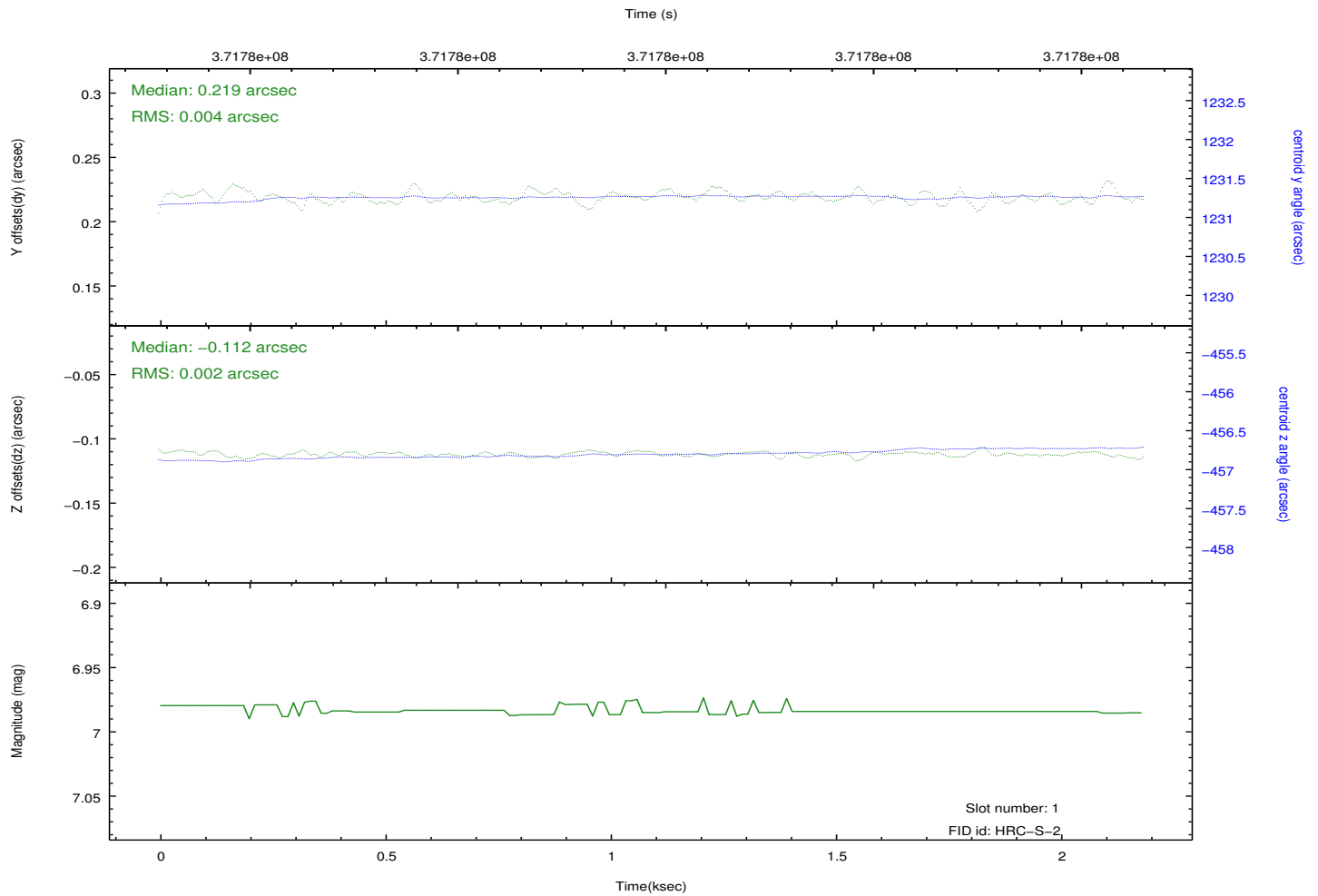
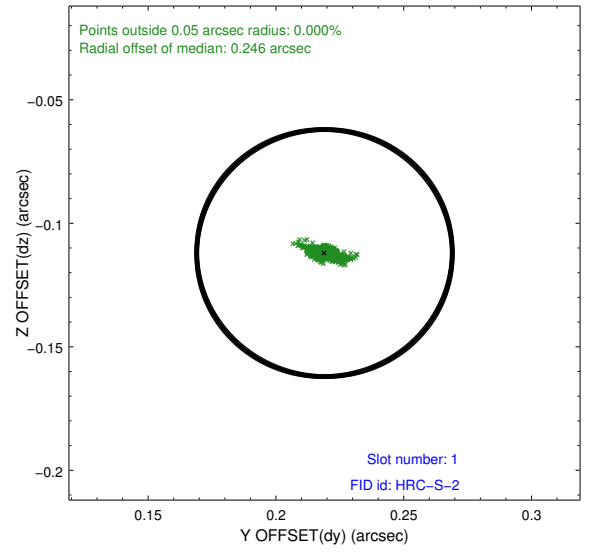
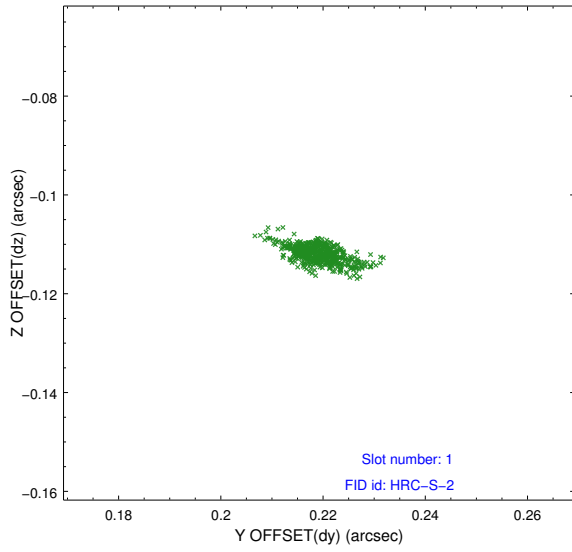


## 2.5 FID Slots

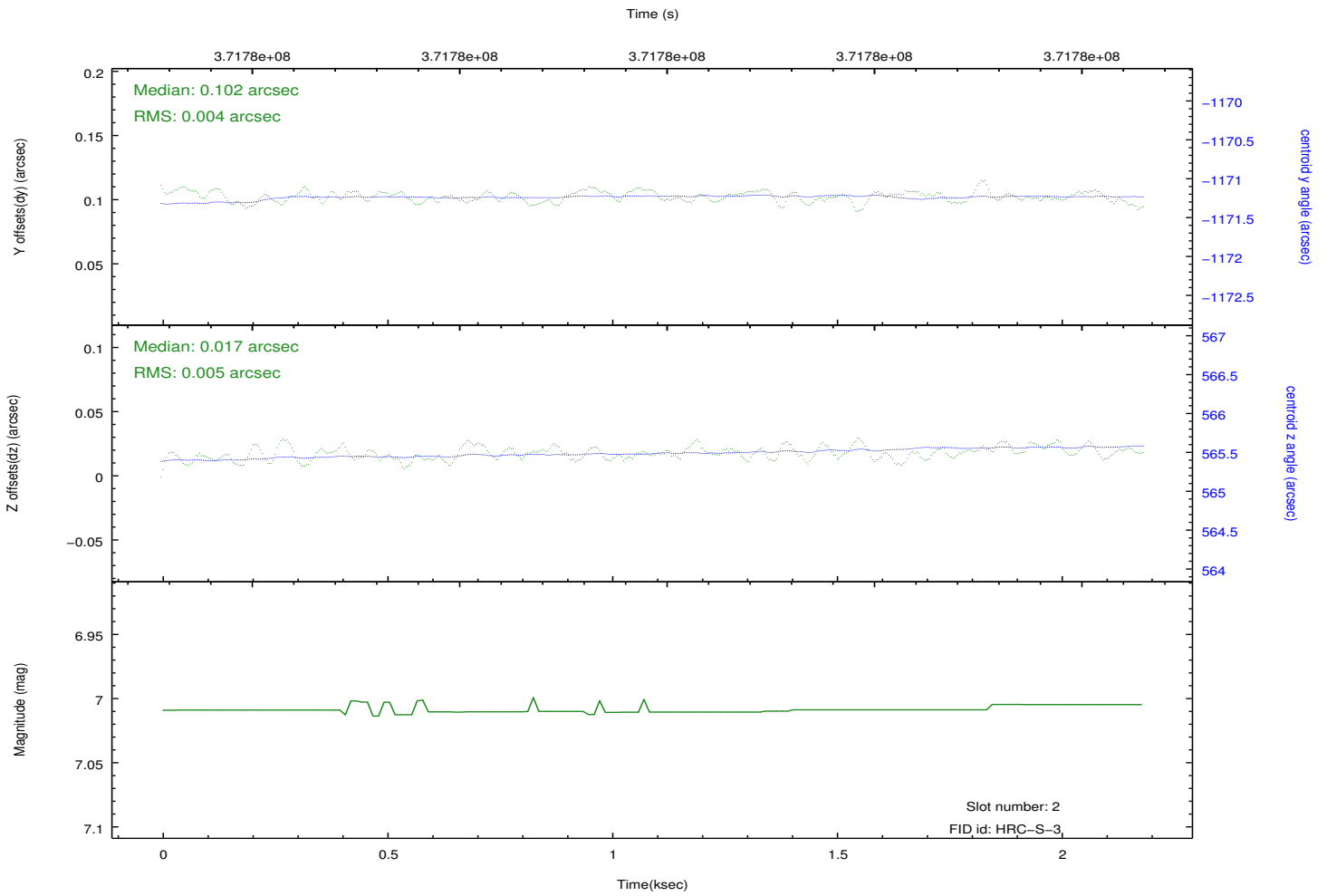
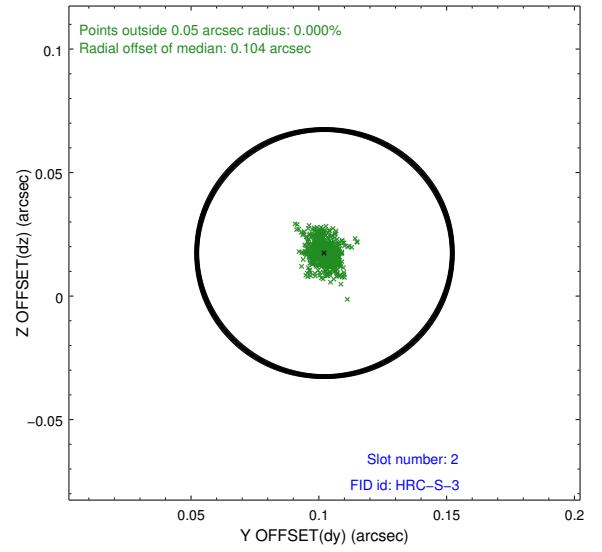
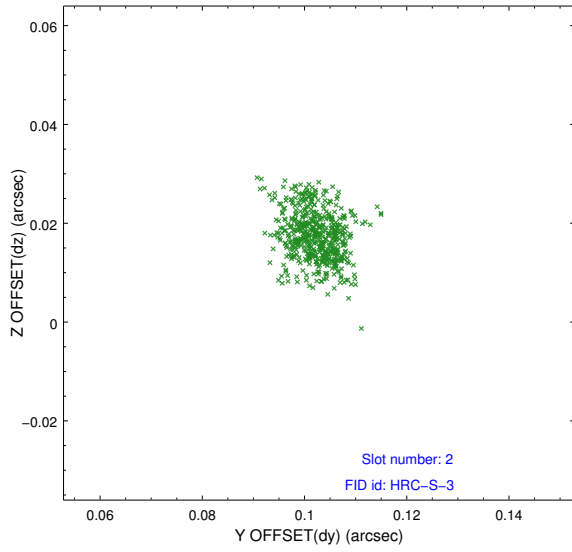
### 2.5.1 Slot 0



## 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)	2012.08.22
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.1865813501477

## A.2 Comments

Window preference met.