

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 11950 - L2 Version 2  
Chandra X-Ray Center

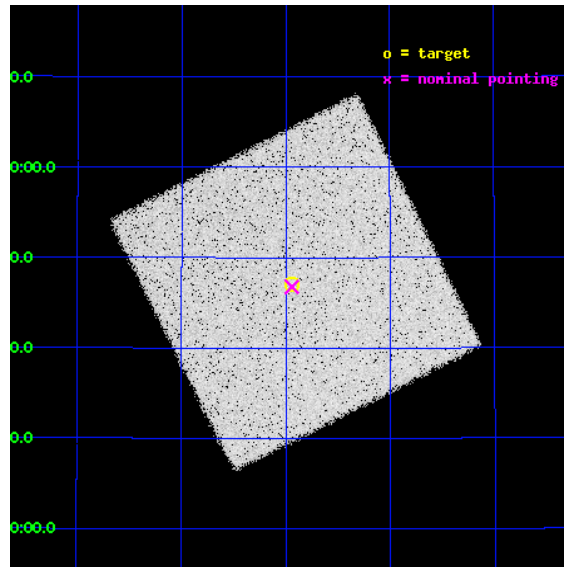
L2 Processing Date : Jul 5 2012

## 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

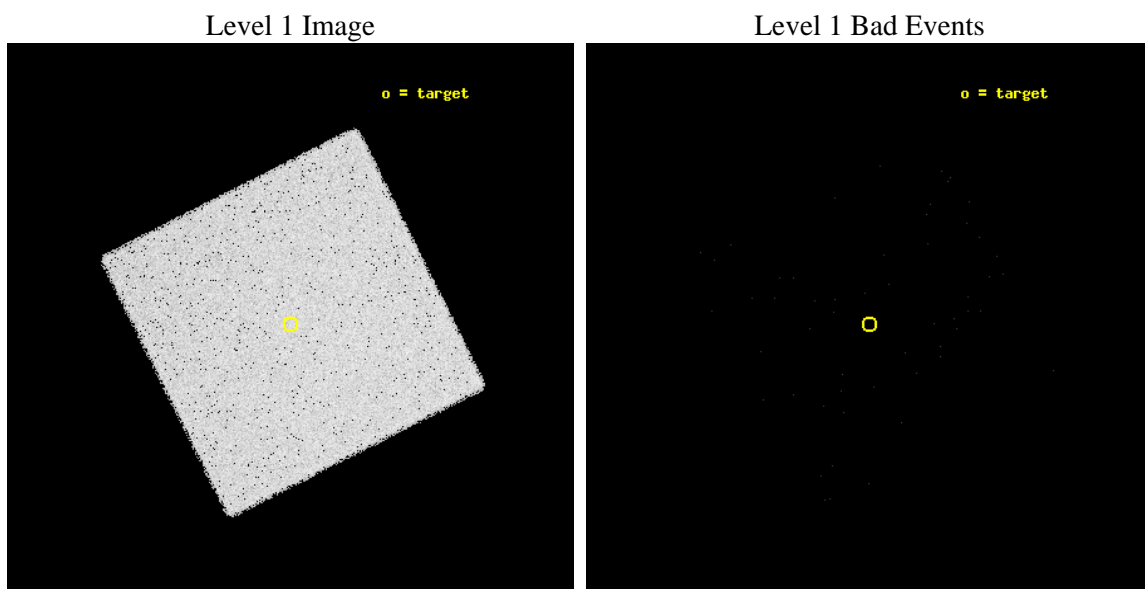
seq_num	290939	Sequence number
obs_id	11950	Observation id
title	AO-11 Measurements of the optical/UV Transmission of the HRC Filters.	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	Vega	Source name
ra_targ	279.235	Observer's specified target RA [deg]
dec_targ	38.783778	Observer's specified target Dec [deg]
ra_nom	279.23519244157	Nominal RA [deg]
dec_nom	38.779608868373	Nominal Dec [deg]
roll_nom	288.34500607171	Nominal Roll [deg]
revision	2	Processing version of data
ontime	2155.8313608766	[s]
liveltime	2132.1252285759	Ontime multiplied by DTCOR
l2events	160121	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	2000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	2155.8313608766	[s]
caldsver	4.5.0	&#160	l1events	346912	Number of level 1 events
date	2012-07-05T05:49:51	Date and time of file creation			
revision	2	Processing version of data			

### 2.1.3 Events

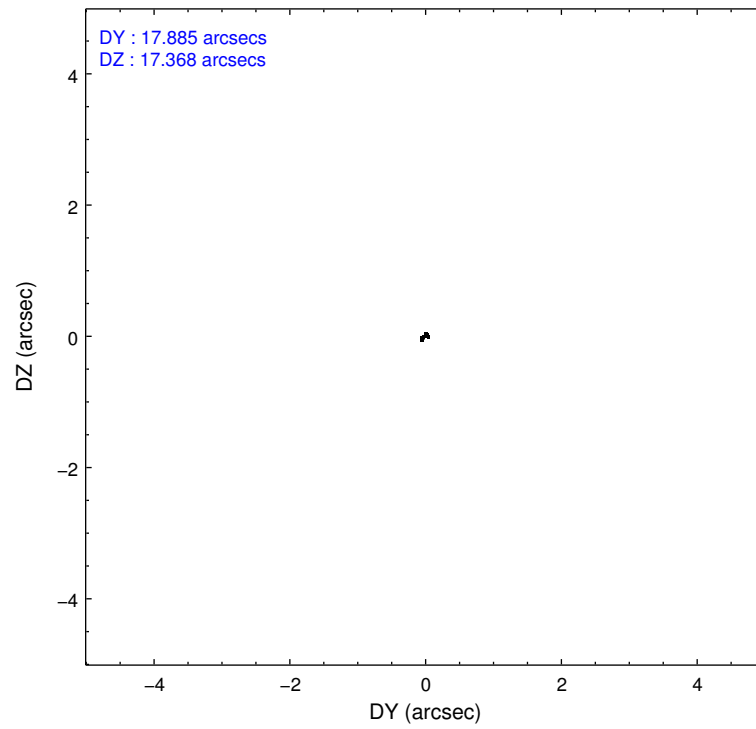
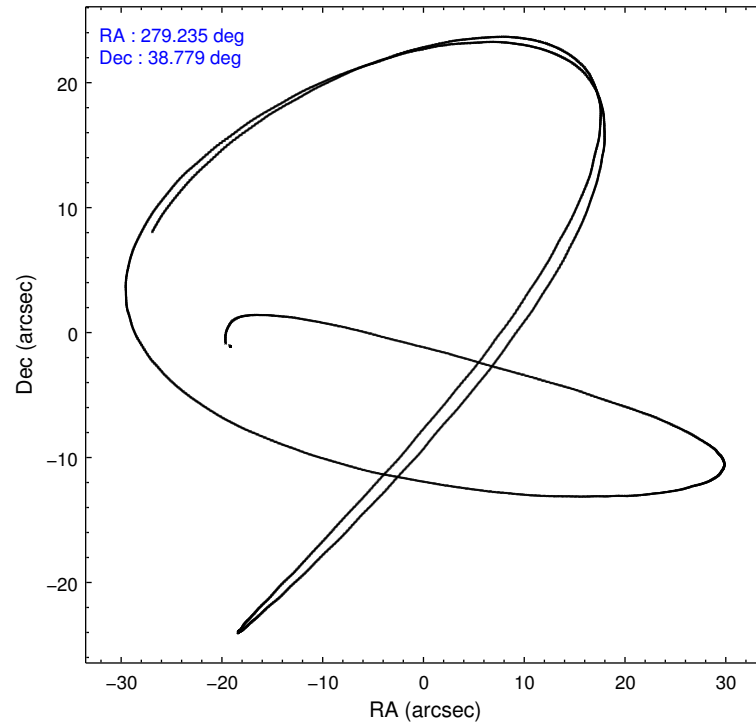
#### Level 1 Events

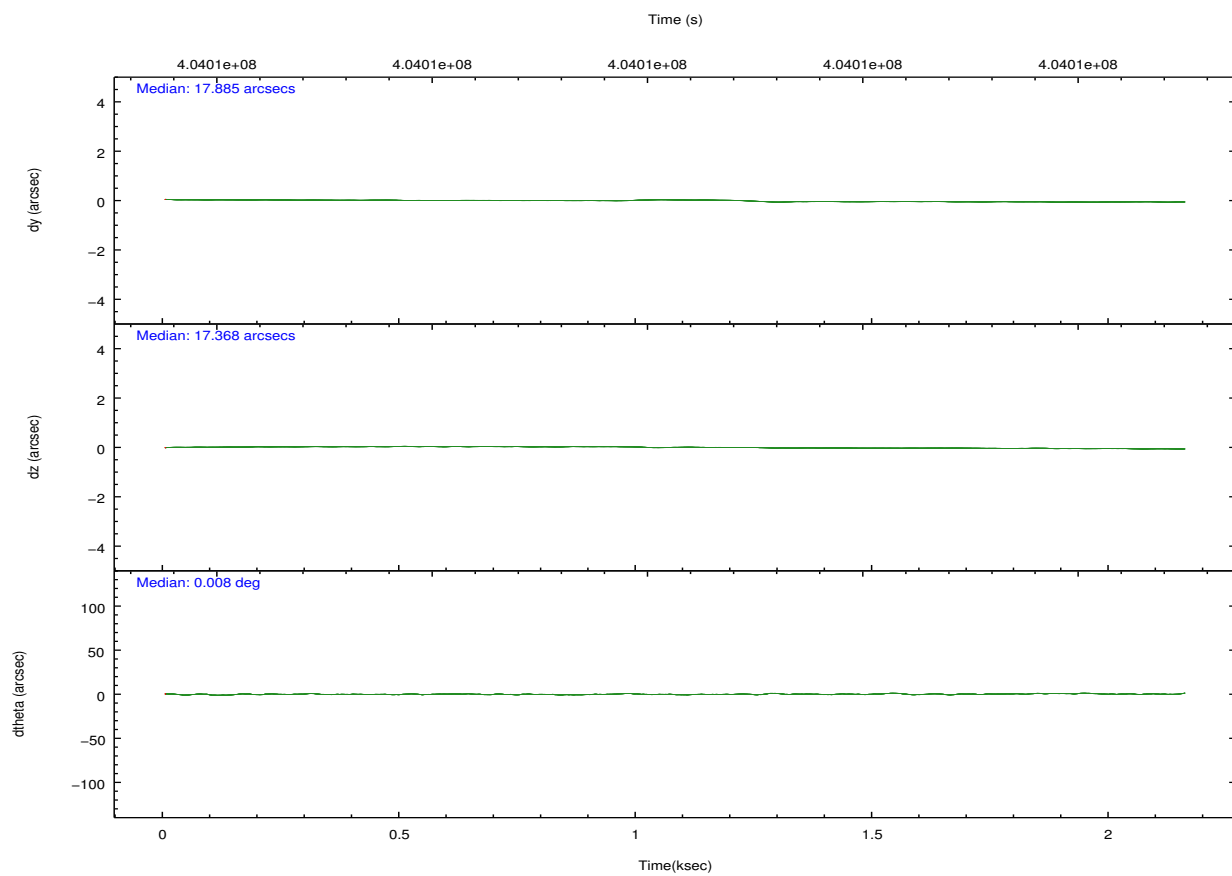
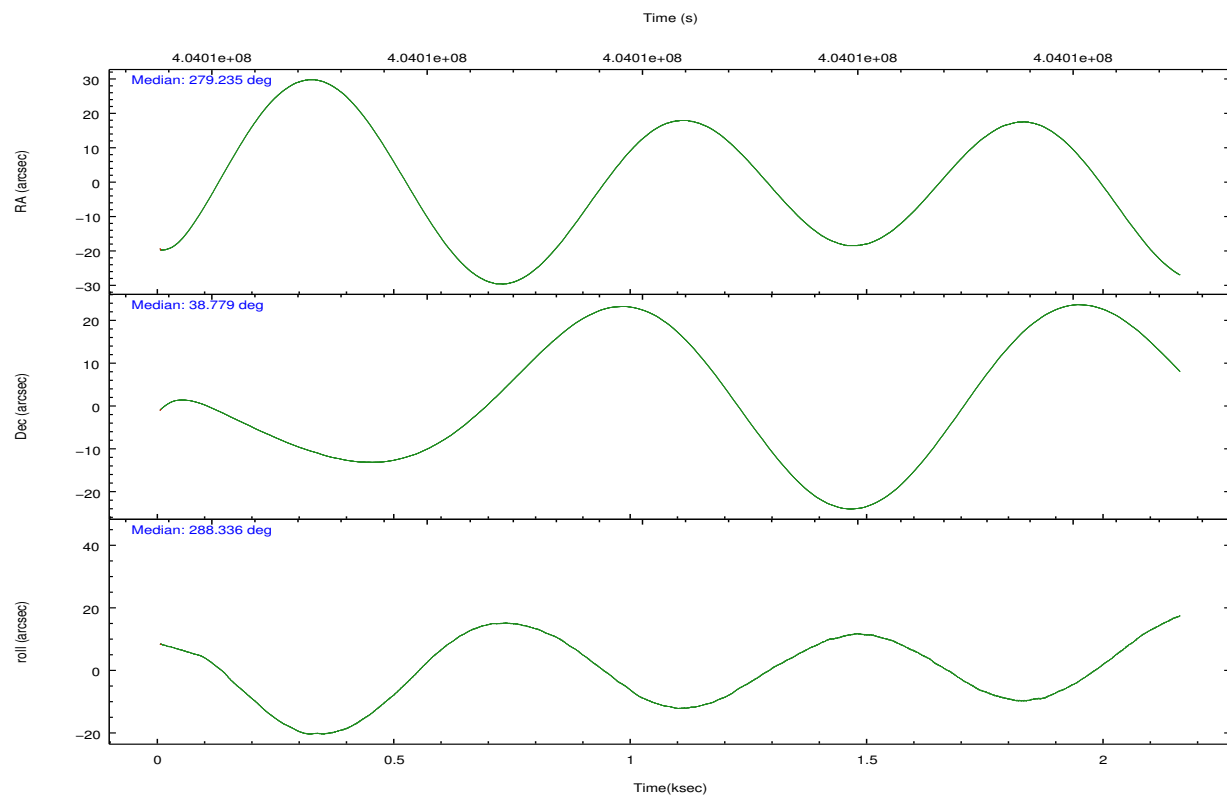
	<b>segment 0</b>
level 1 events	346912
rejected events	120497
rejected %	34%

## 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	279.208083	279.2351924415748			
[deg] Pointing Dec	38.797157	38.7796088683729			
[deg] Pointing Roll	288.457521	288.3450060717092			
[s] Window start time (MET)	399686466.184000	399686466.184000			
[s] Window stop time (MET)	407462466.184000	407462466.184000			
[mm] SIM focus pos	-1.040293	-1.038866356238299			
[mm] SIM defocus	0	0.001426264420575141			
[mm] SIM translation stage pos	126.985494	126.9829799899862			
[mm] SIM translation stage offset	0	0.002508901615314585			
[s] Observation start time (MET)	404011138.184000	404009855.15212			
Observation start date	2010-10-21T01:17:52	2010-10-21T00:57:35			
[s] Observation end time (MET)	404013138.184000	404013275.57729			
Observation end date	2010-10-21T01:51:12	2010-10-21T01:54:35			

## 2.3 Aspect





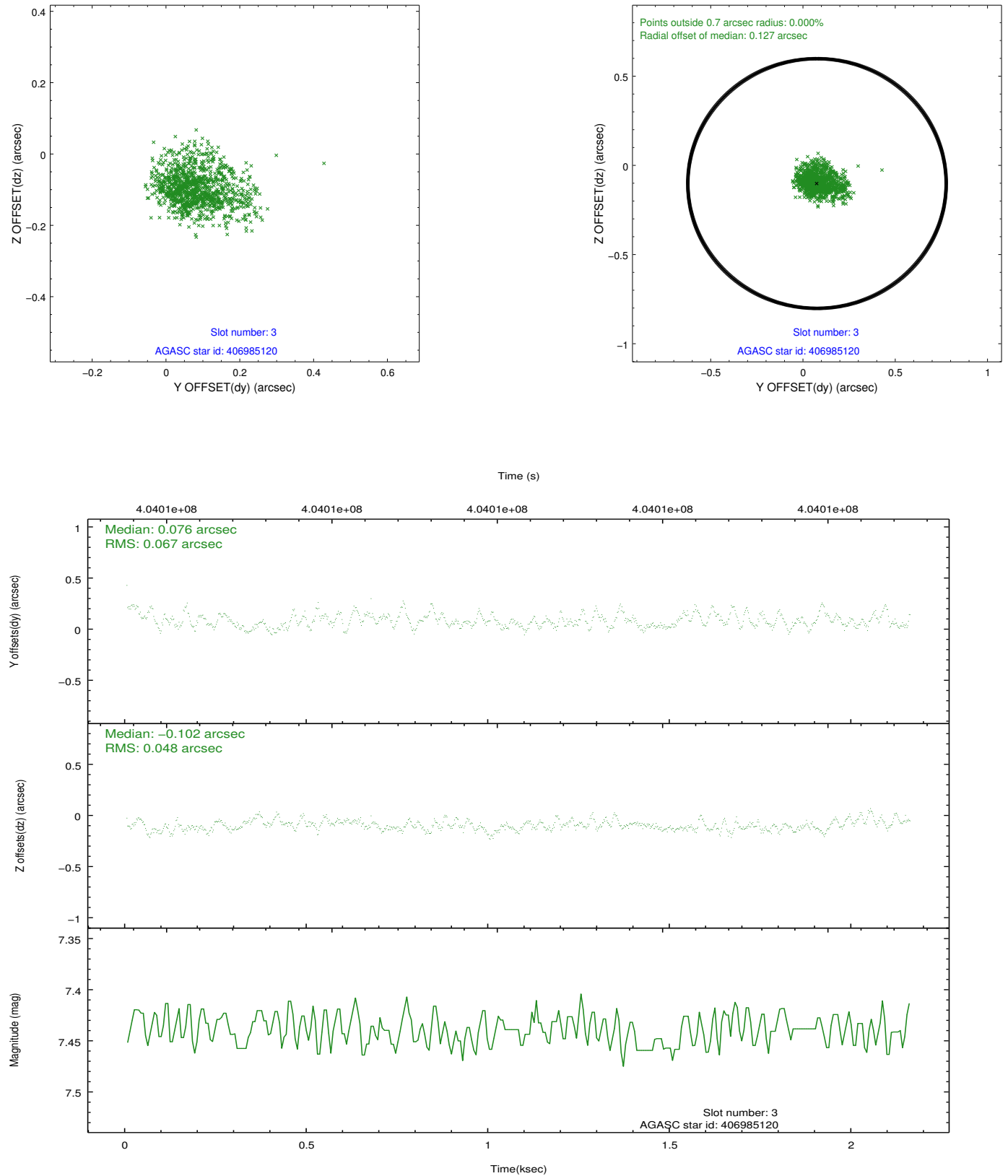
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-I-2	7.01	527	0.144	-0.110	0.006	0.010	0.000000	0.000000	839.04	-1307.19
1	FID	HRC-I-3	7.05	526	-0.168	0.082	0.005	0.009	0.000000	0.000000	-1200.82	996.64
2	FID	HRC-I-4	6.98	527	0.143	-0.058	0.006	0.011	0.000000	0.000000	1266.90	998.50
3	GUIDE	406985120	7.44	1053	0.076	-0.102	0.085	0.147	278.839732	38.894839	-661.93	-868.38
4	GUIDE	406987272	6.96	1053	-0.097	0.156	0.069	0.115	278.536588	38.437504	621.26	-2205.69
5	GUIDE	406987384	8.96	1049	-0.026	0.052	0.097	0.159	278.815518	38.115336	1975.05	-1834.03
6	GUIDE	407521232	8.64	1048	0.063	0.007	0.086	0.143	279.628883	39.431715	-1797.23	1830.84
7	GUIDE	406983600	8.93	1052	-0.016	-0.115	0.098	0.154	279.940957	39.020708	-123.01	2202.77

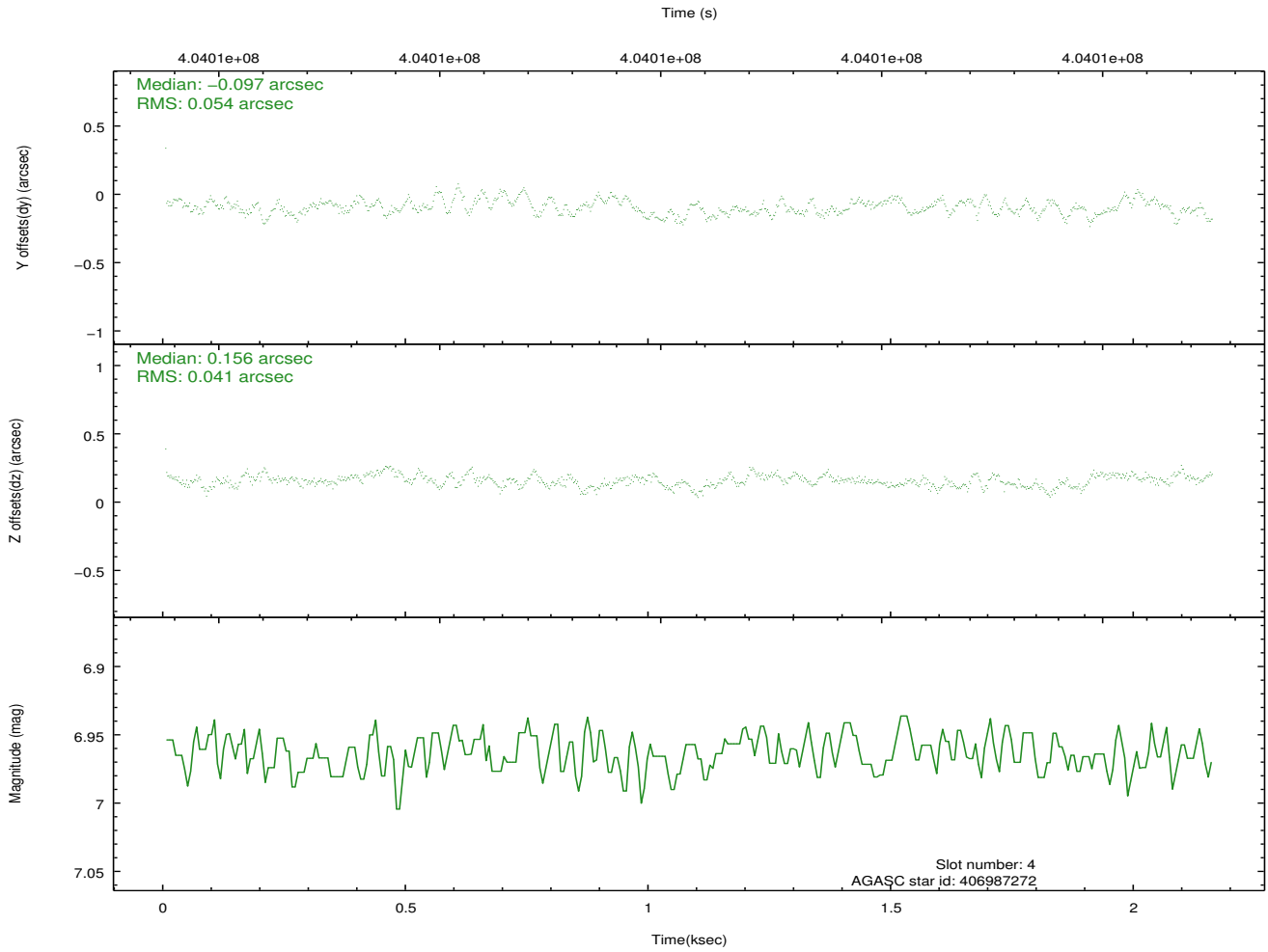
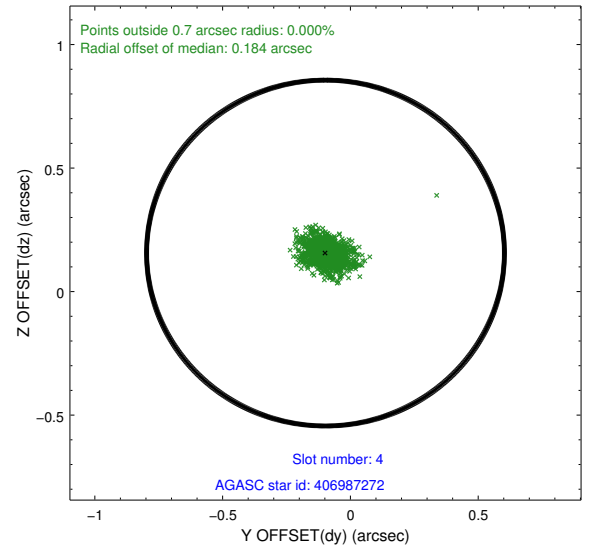
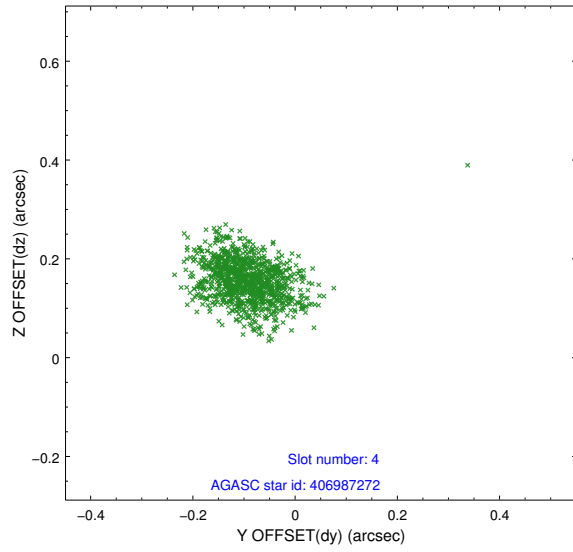


## 2.4 Star Slots

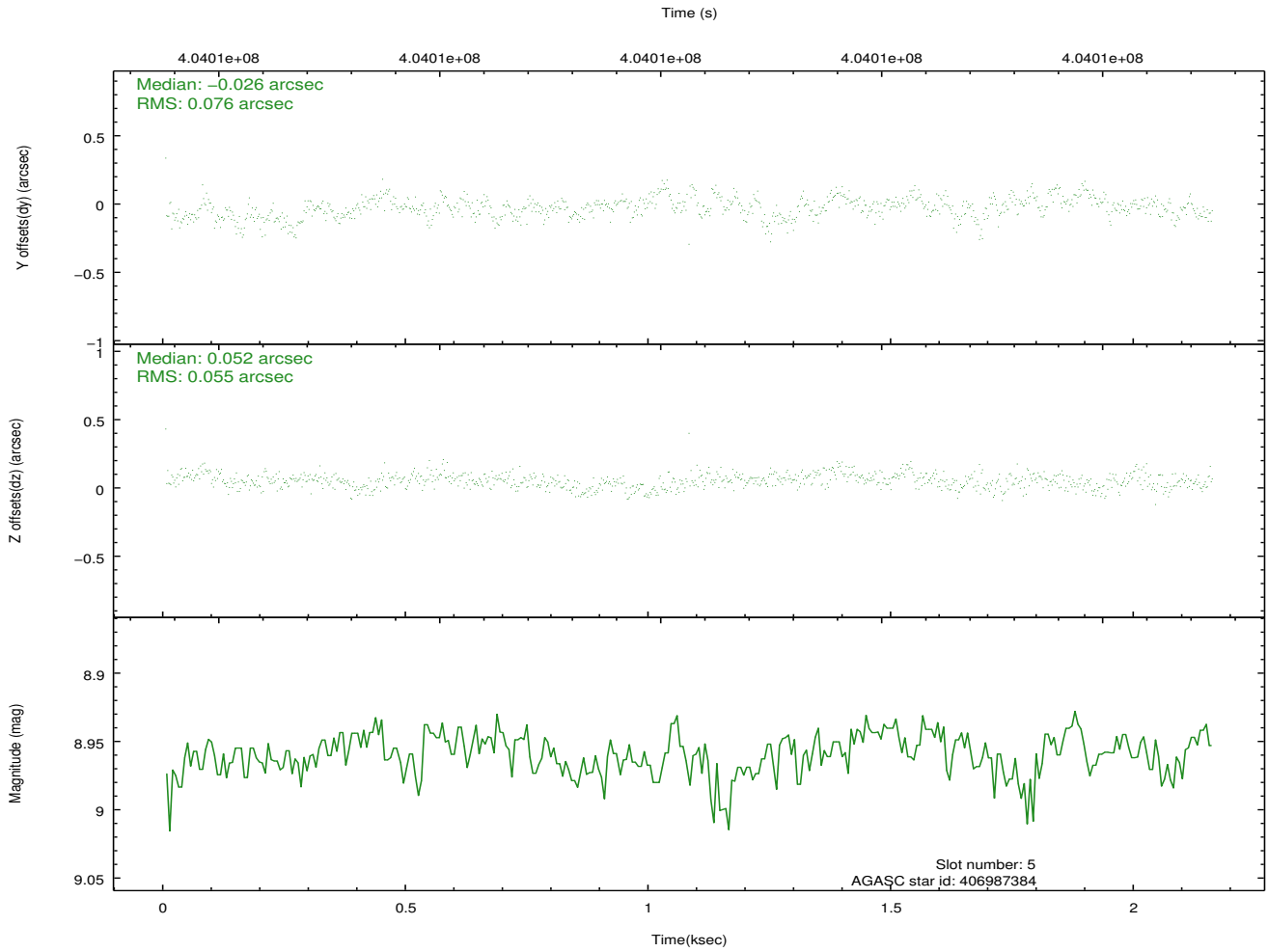
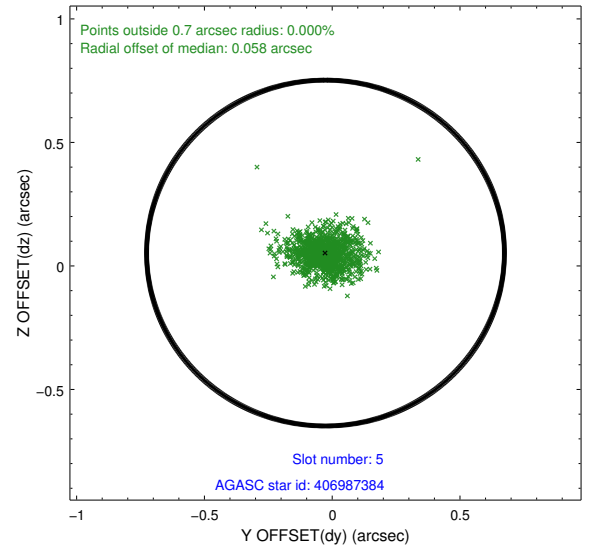
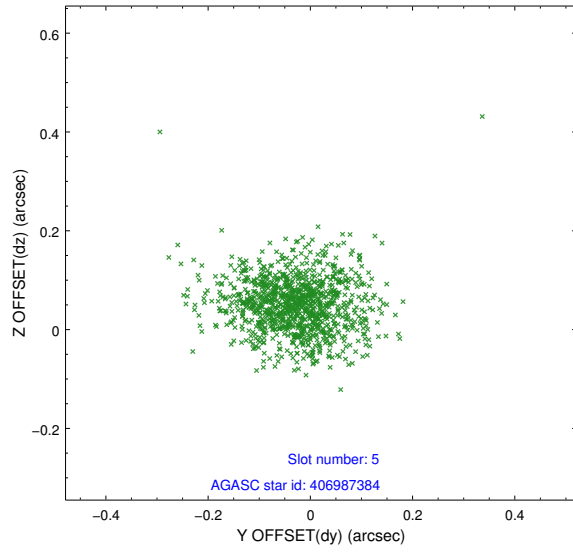
### 2.4.1 Slot 3



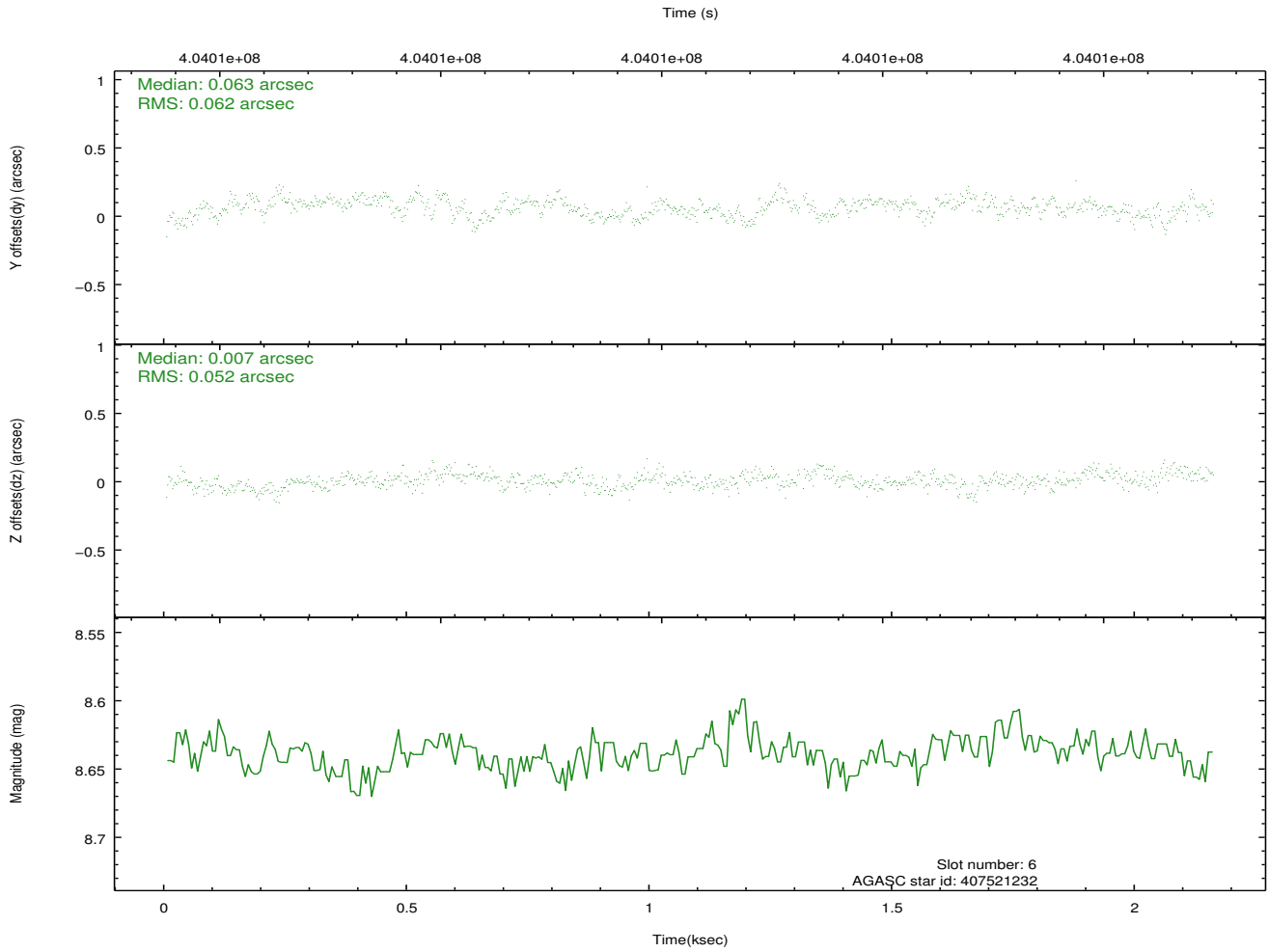
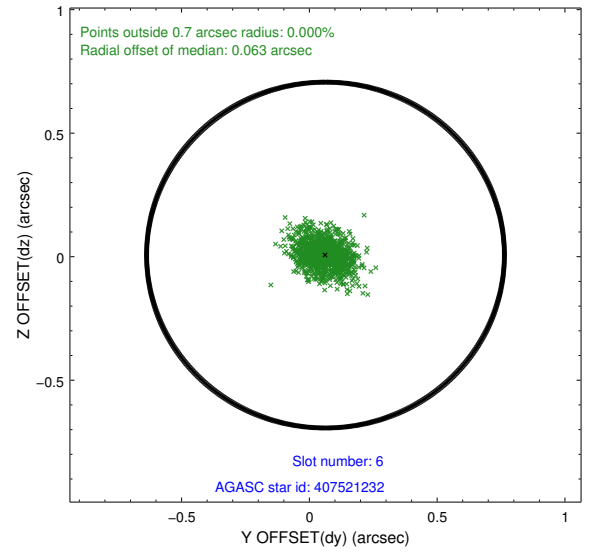
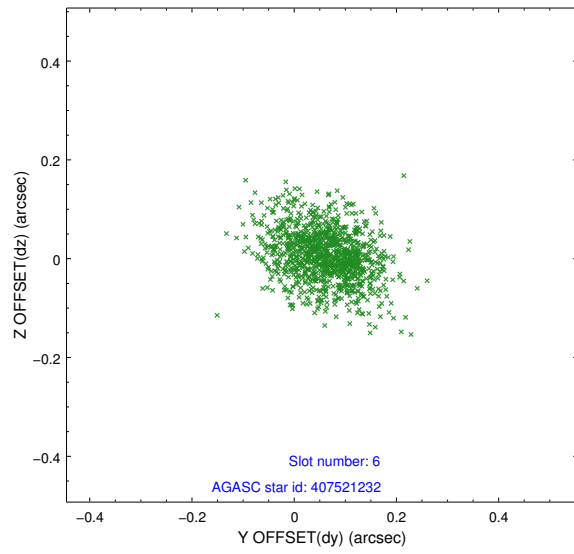
## 2.4.2 Slot 4



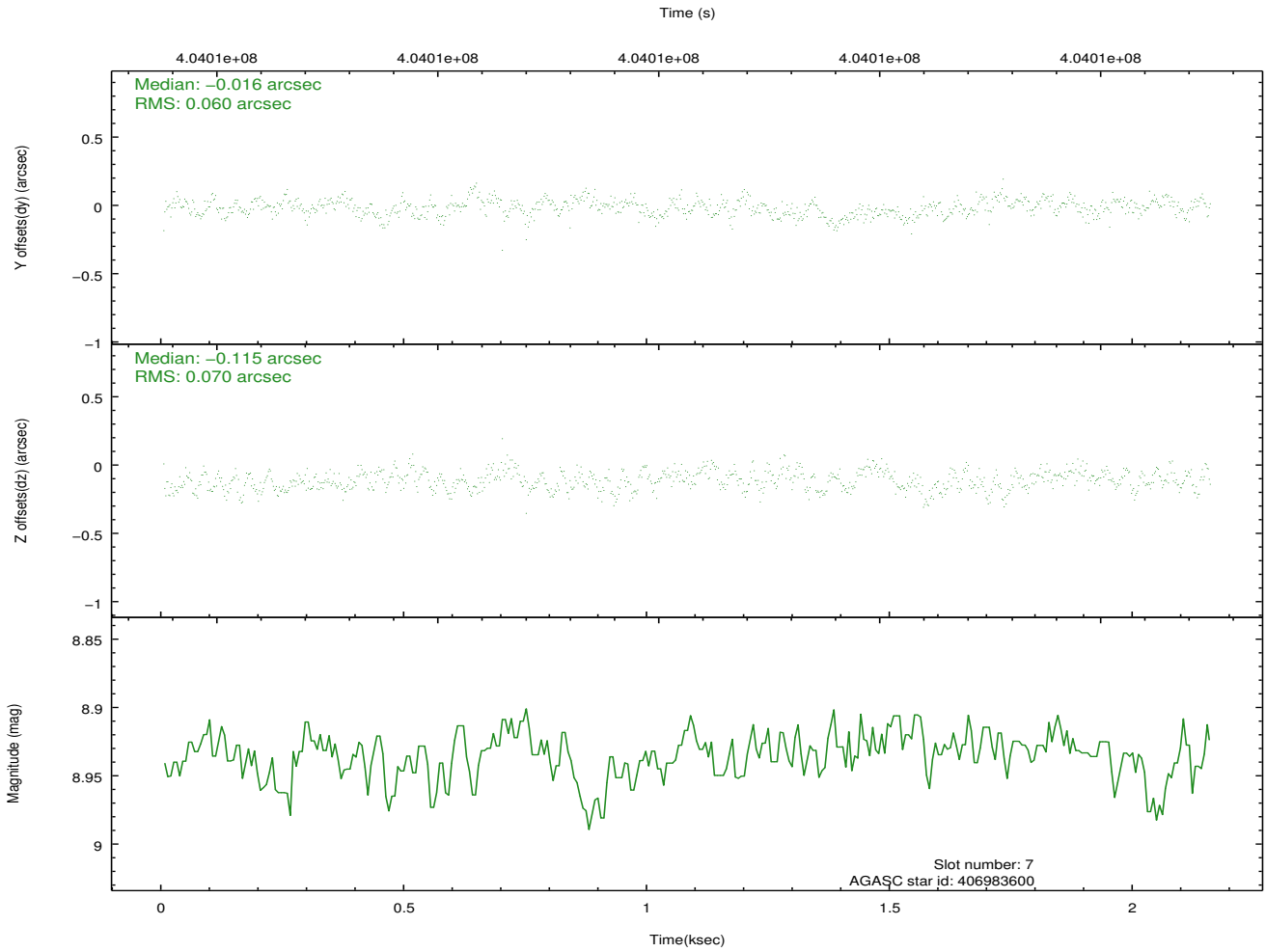
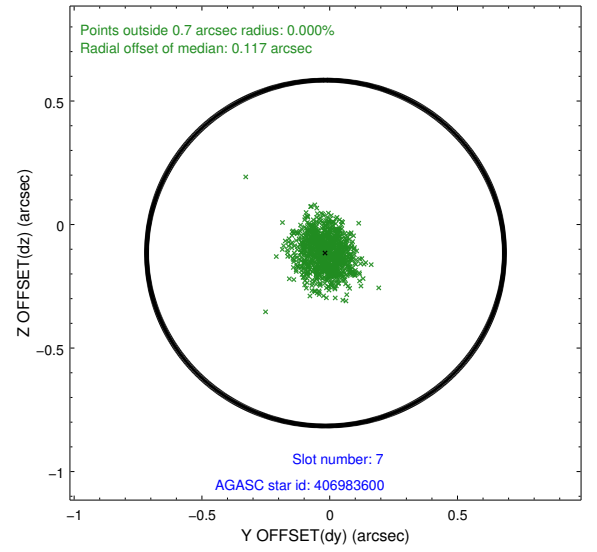
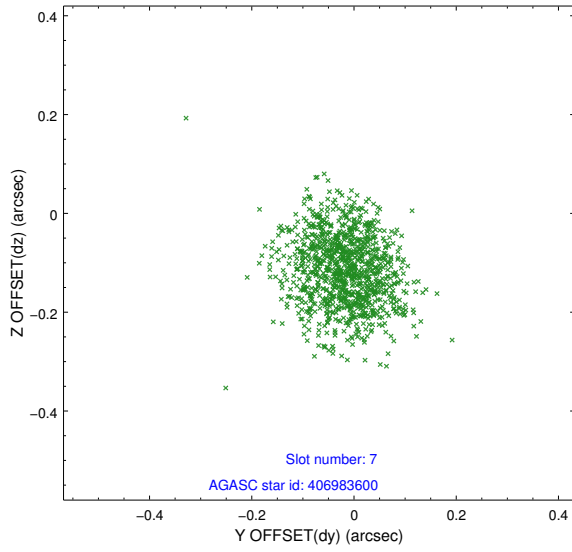
### 2.4.3 Slot 5



## 2.4.4 Slot 6

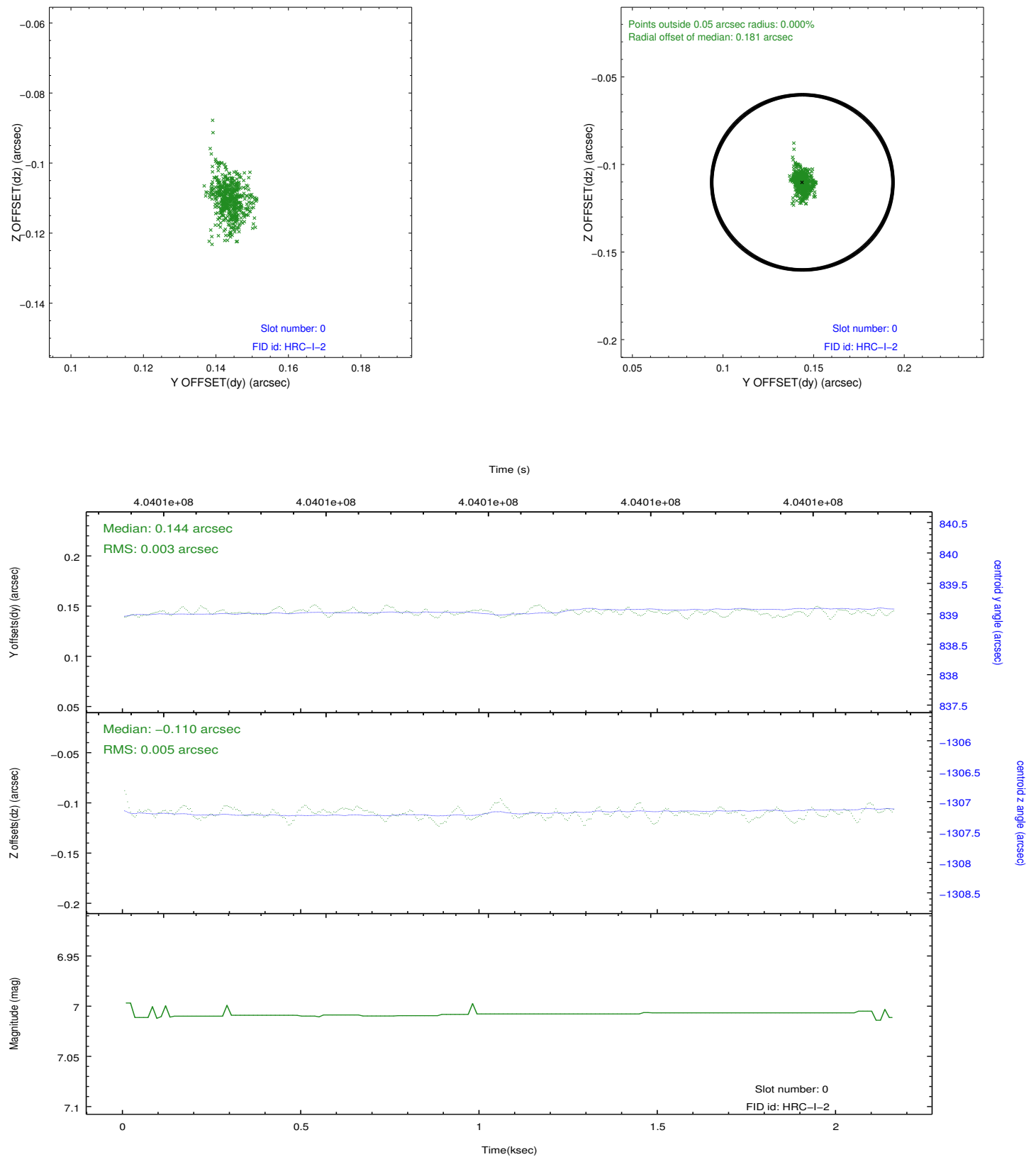


## 2.4.5 Slot 7

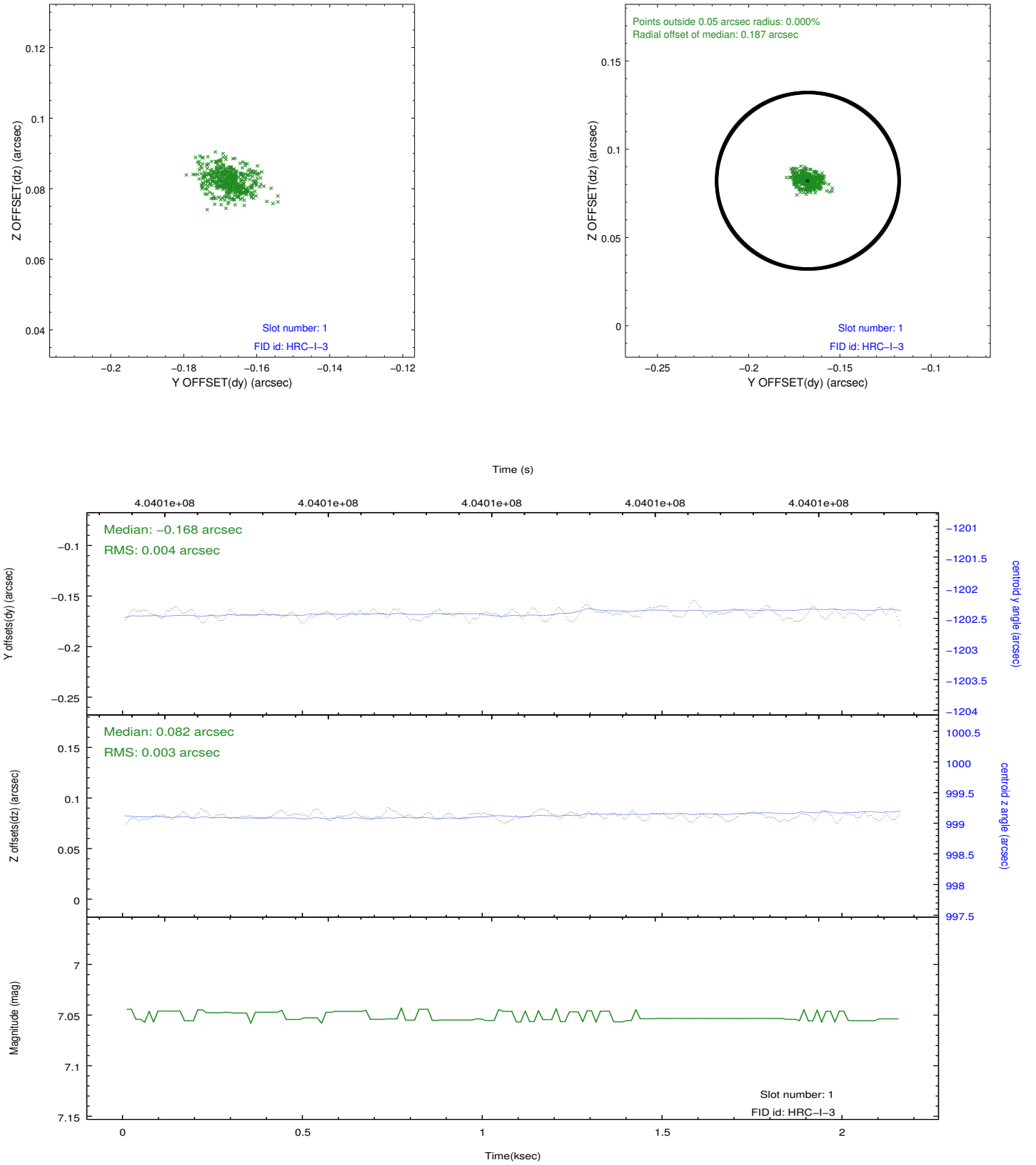


## 2.5 FID Slots

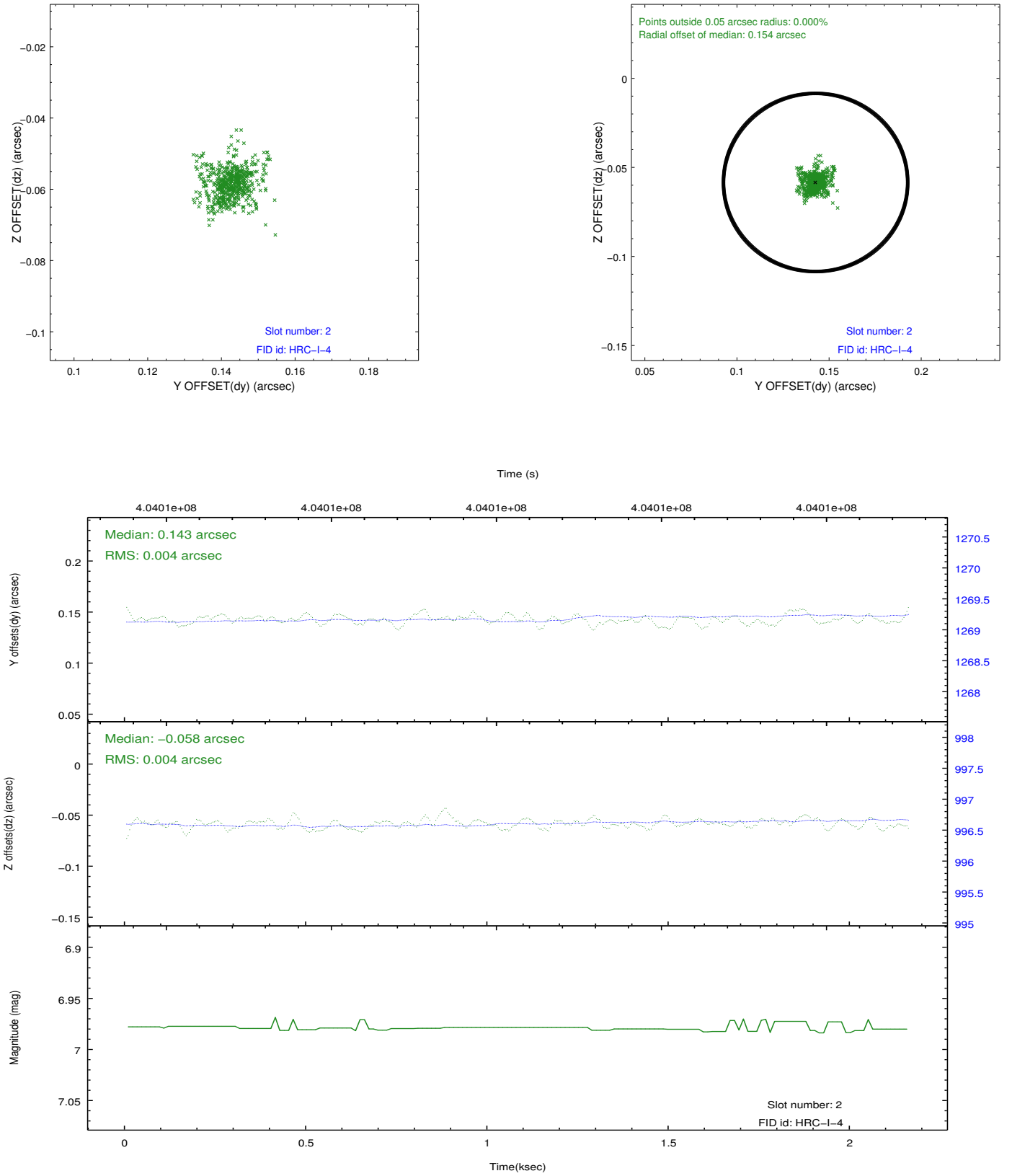
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2





## A Summary

### A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.07.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.1558313608766

### A.2 Comments

Window constraint met.