

# V&V Reference Report

## L2 ASCDS Version : 8.4.3

Observation 13066 - L2 Version 3  
Chandra X-Ray Center

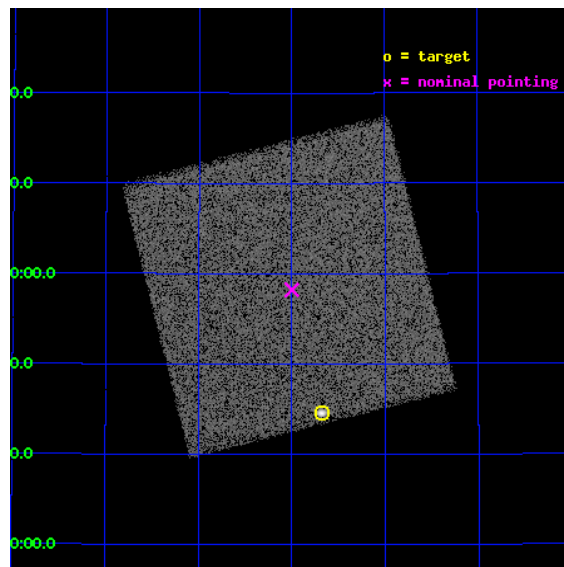
L2 Processing Date : Jul 27 2012

## 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

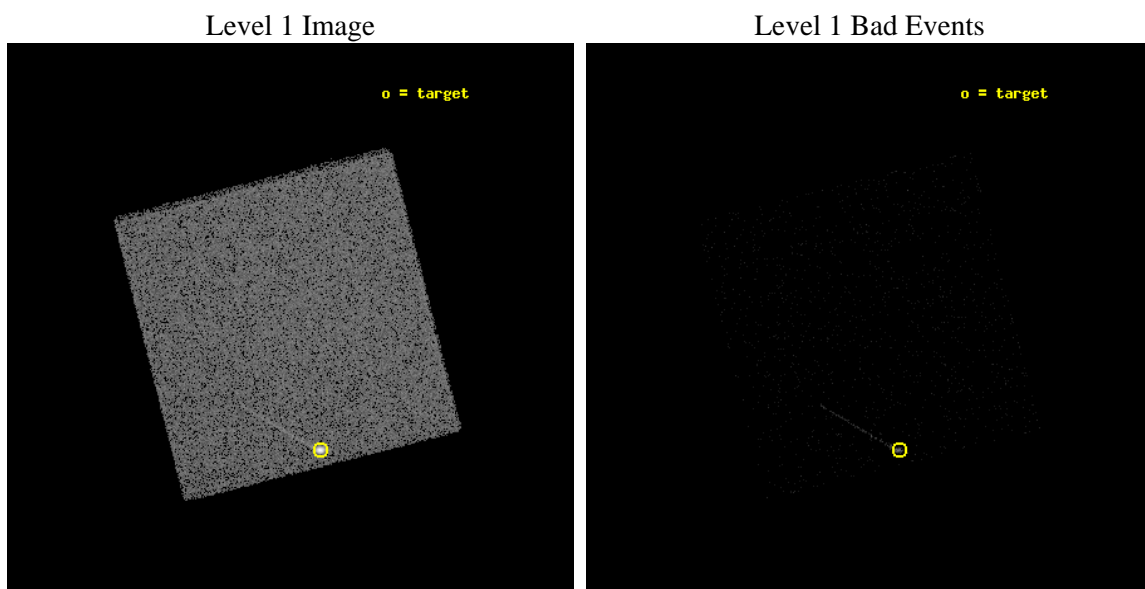
seq_num	290985	Sequence number
obs_id	13066	Observation id
title	AO-12 Calibration Observations to Monitor the Spatial Variations in the HRC-I Gain	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.24994860191	Nominal RA [deg]
dec_nom	45.970228919641	Nominal Dec [deg]
roll_nom	210.75891713646	Nominal Roll [deg]
revision	3	Processing version of data
ontime	1186.1813122034	[s]
livetime	1174.8665339409	Ontime multiplied by DTCOR
l2events	81546	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	8.4.5	Processing system revision	ontime	1186.1813122034	[s]
caldbver	4.5.1	&#160	l1events	142355	Number of level 1 events
date	2012-07-28T02:24:56	Date and time of file creation			
revision	3	Processing version of data			

### 2.1.3 Events

#### Level 1 Events

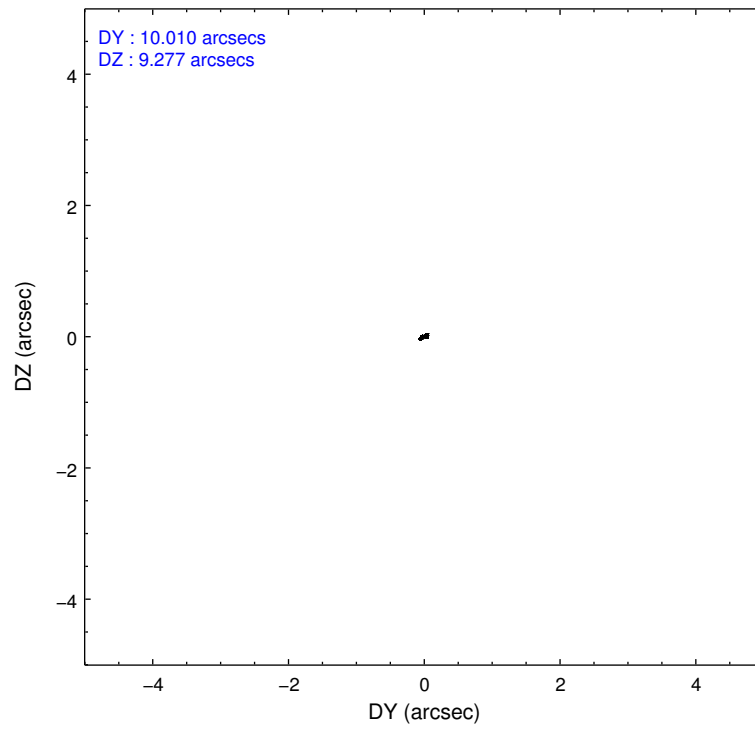
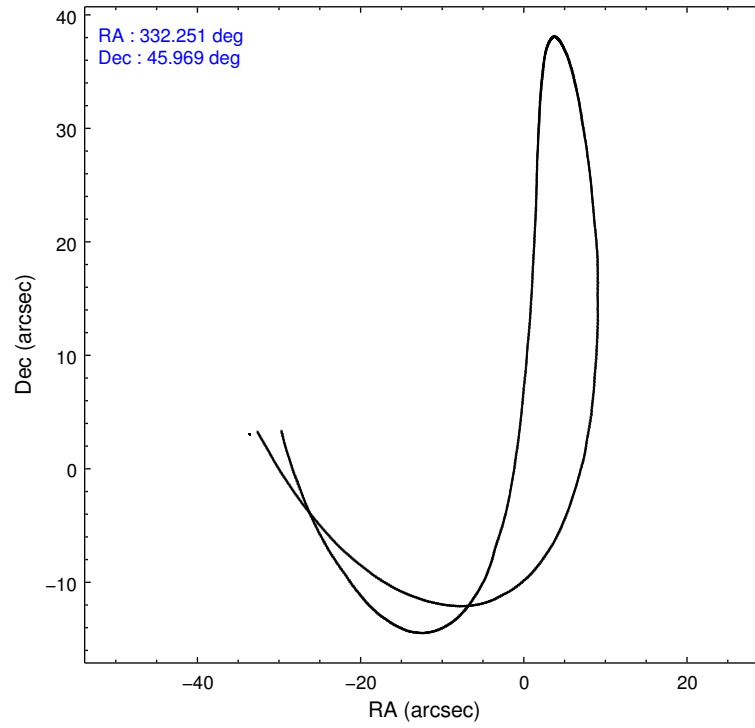
	<b>segment 0</b>
level 1 events	142355
rejected events	30109
rejected %	21%

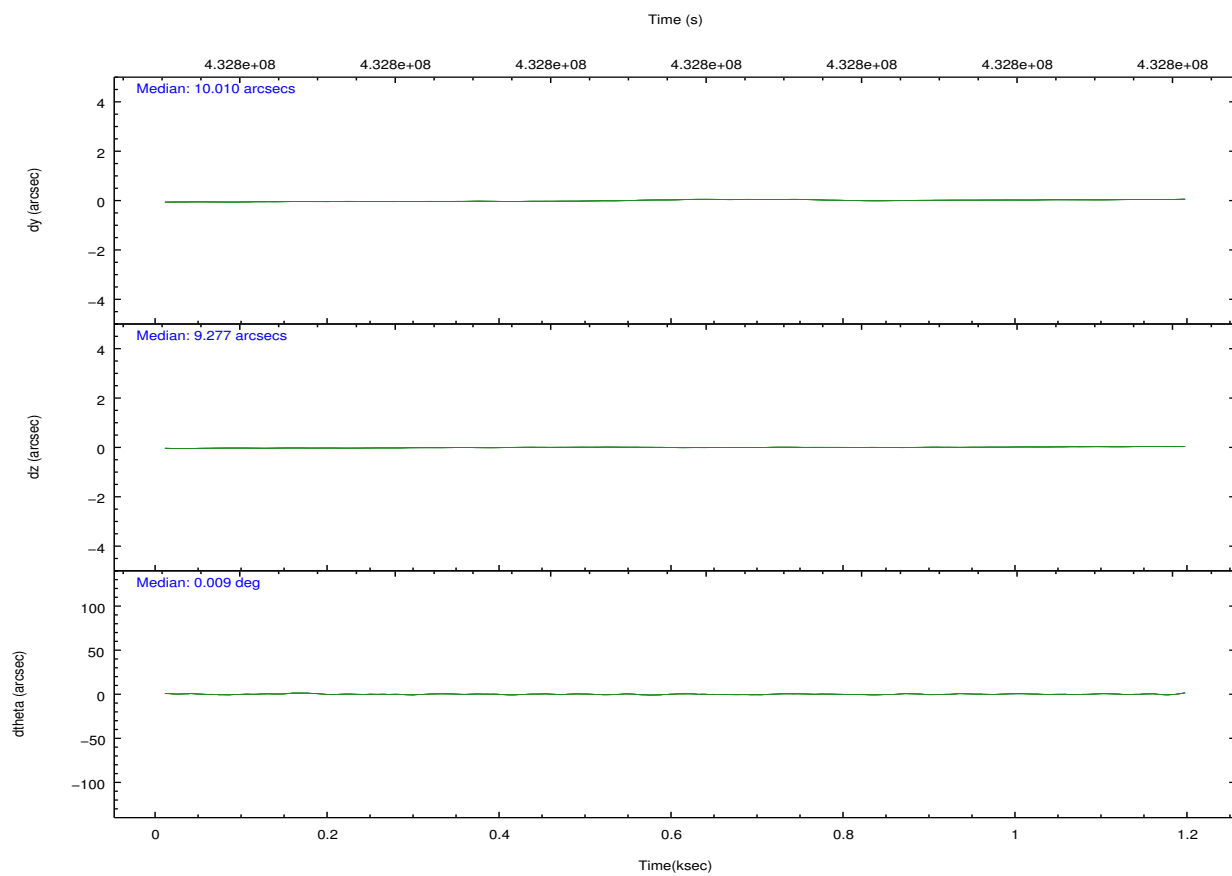
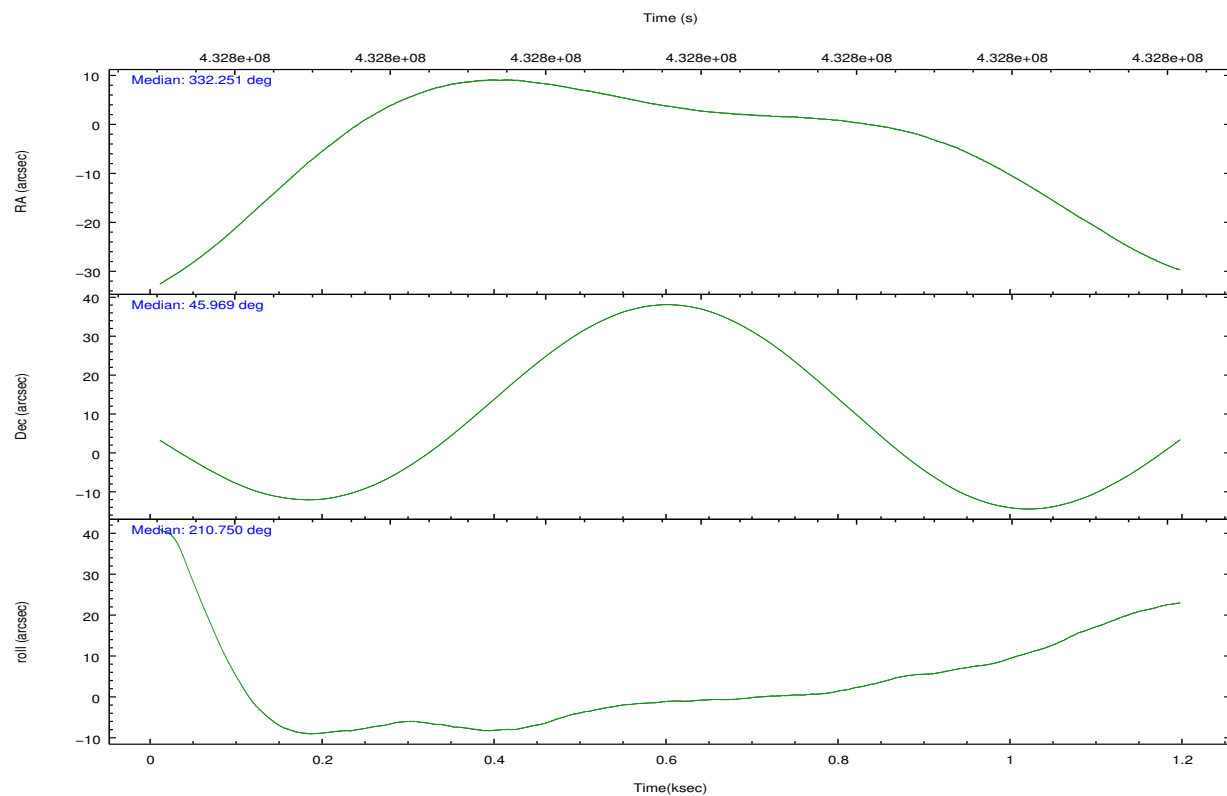
## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	HRC	HRC
Detector	HRC-I	HRC-I
Grating	NONE	NONE
Data mode	OBSERVING	OBSERVING
Observation mode	POINTING	POINTING
[deg] Pointing RA	332.267970	332.2499486019062
[deg] Pointing Dec	45.995539	45.97022891964087
[deg] Pointing Roll	210.841370	210.7589171364595
[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)	432796965.184000	432796589.72408
Observation start date	2011-09-19T05:21:39	2011-09-19T05:16:29
[s] Observation end time (MET)	432797965.184000	432798099.54916
Observation end date	2011-09-19T05:38:19	2011-09-19T05:41:39

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED

## 2.3 Aspect





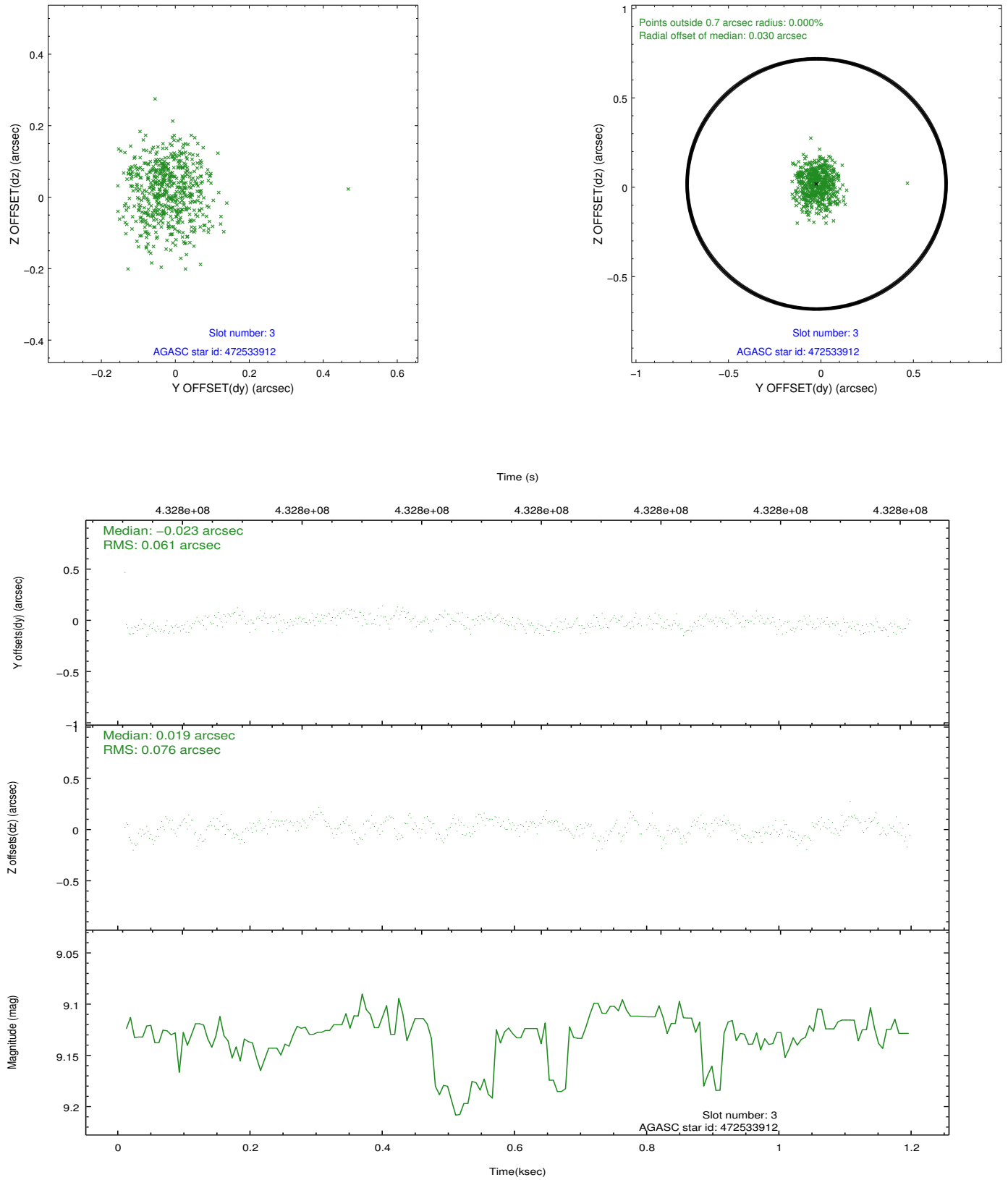
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-I-2	6.99	290	0.103	-0.104	0.006	0.010	0.000000	0.000000	847.06	-1298.86
1	FID	HRC-I-3	7.04	290	-0.141	0.043	0.006	0.010	0.000000	0.000000	-1191.38	1002.94
2	FID	HRC-I-4	6.96	290	0.157	-0.026	0.006	0.010	0.000000	0.000000	1273.17	1008.41
3	GUIDE	472533912	9.13	577	-0.023	0.019	0.103	0.164	331.791136	46.368695	325.44	-1767.67
4	GUIDE	472535576	7.86	580	-0.132	0.099	0.062	0.105	331.438373	46.291802	1219.04	-1989.73
5	GUIDE	472536328	8.11	580	-0.079	0.158	0.080	0.138	331.496671	46.454831	791.16	-2415.48
6	GUIDE	472655152	9.43	576	0.134	-0.058	0.118	0.190	332.504239	45.862991	-264.23	704.48
7	GUIDE	472665256	9.01	578	0.109	-0.217	0.083	0.132	332.808125	46.195041	-1527.83	66.20

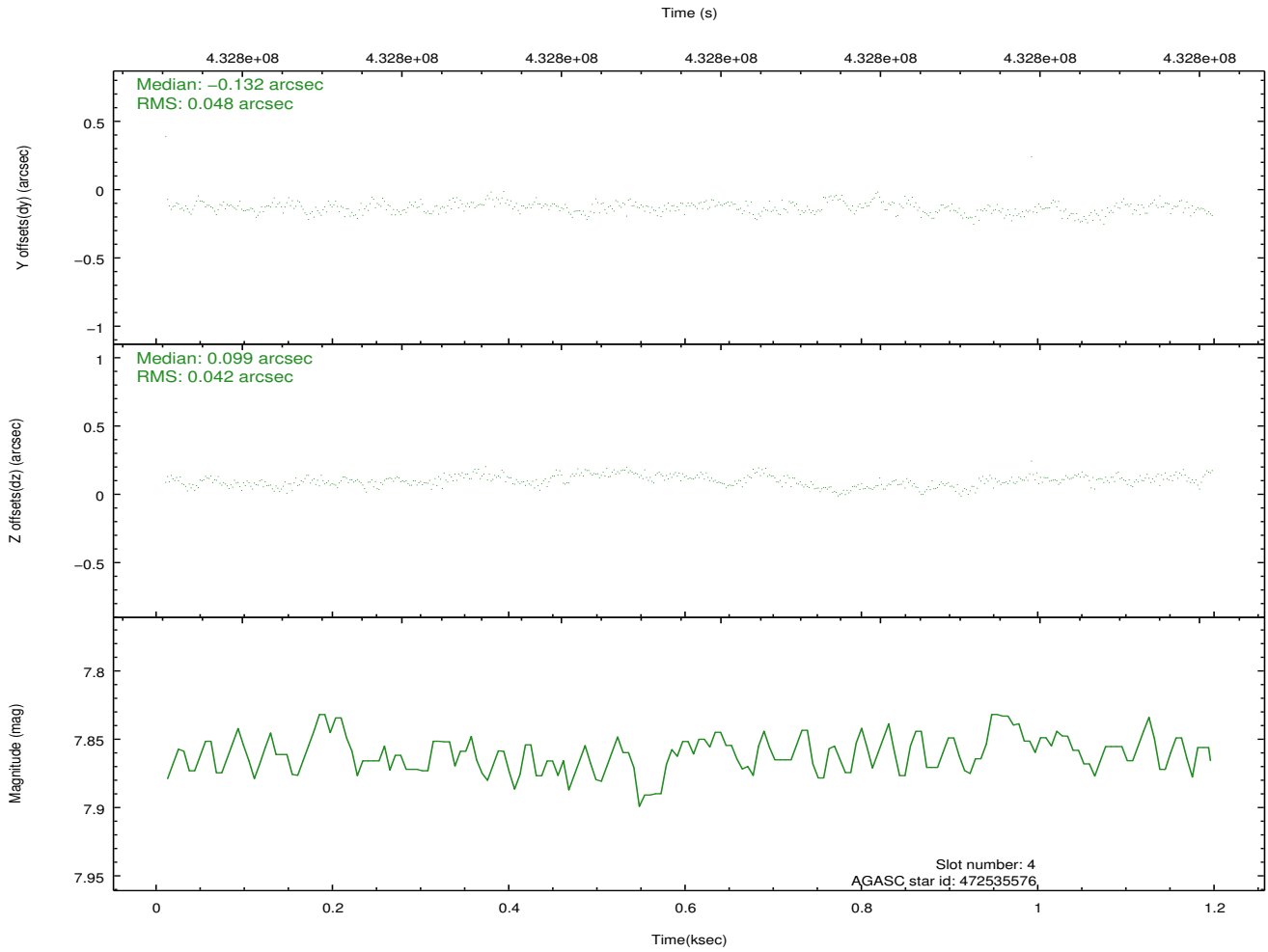
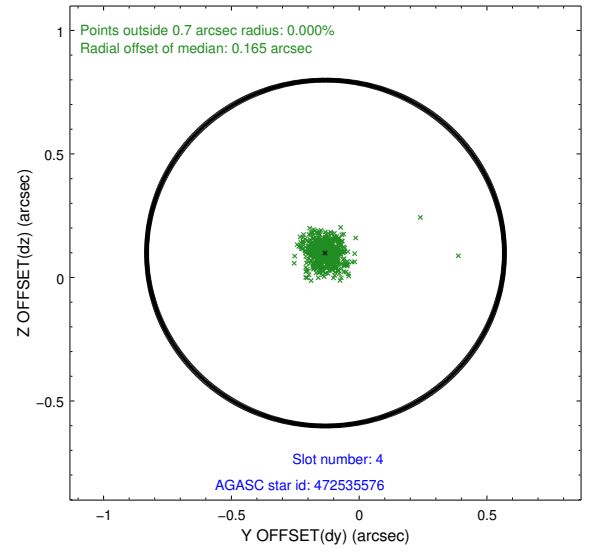
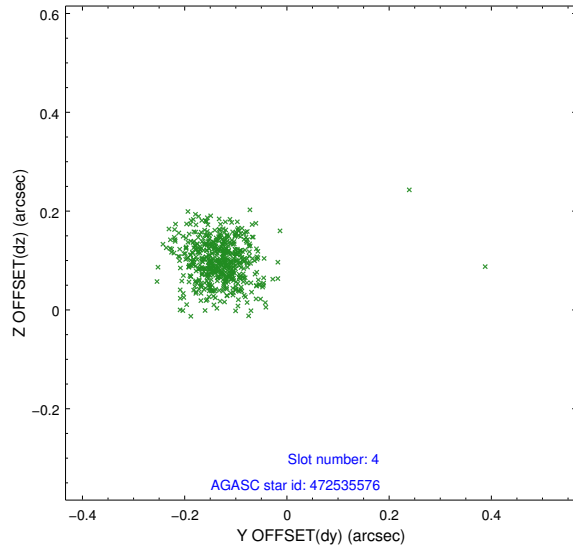


## 2.4 Star Slots

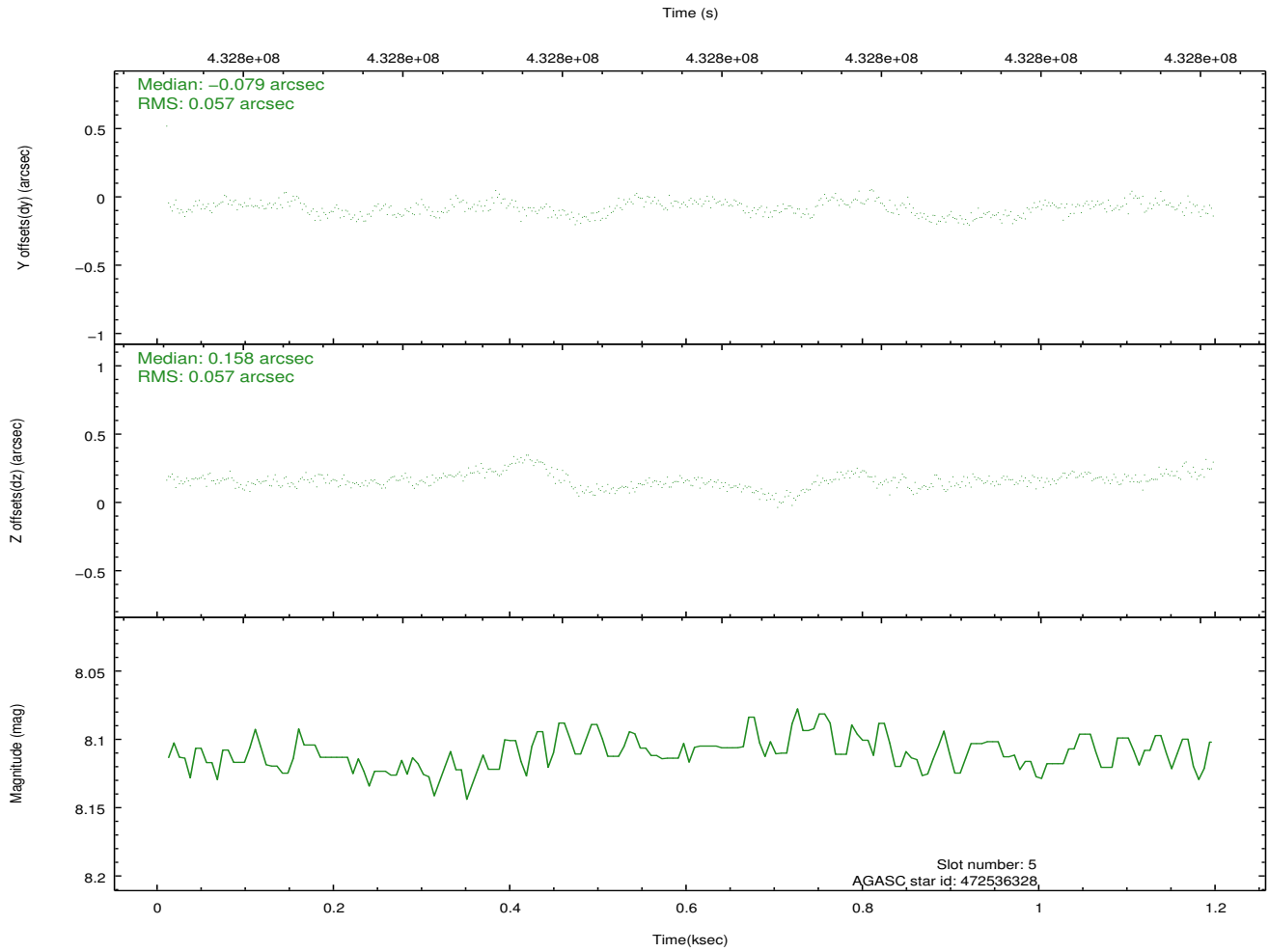
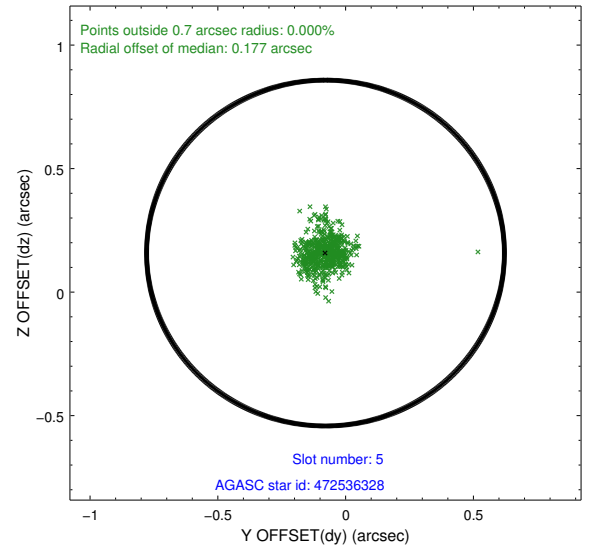
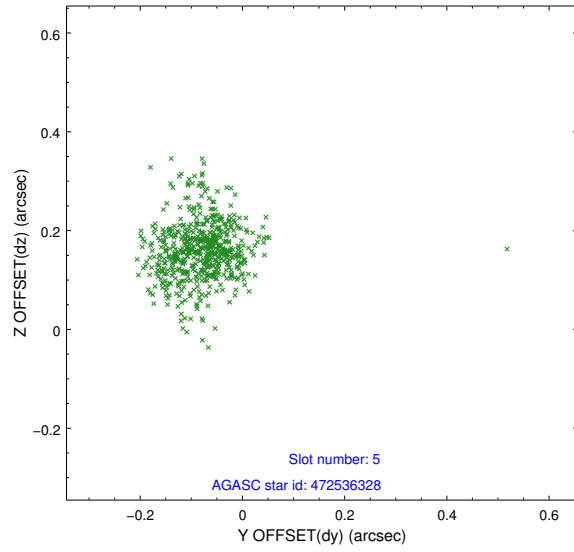
### 2.4.1 Slot 3



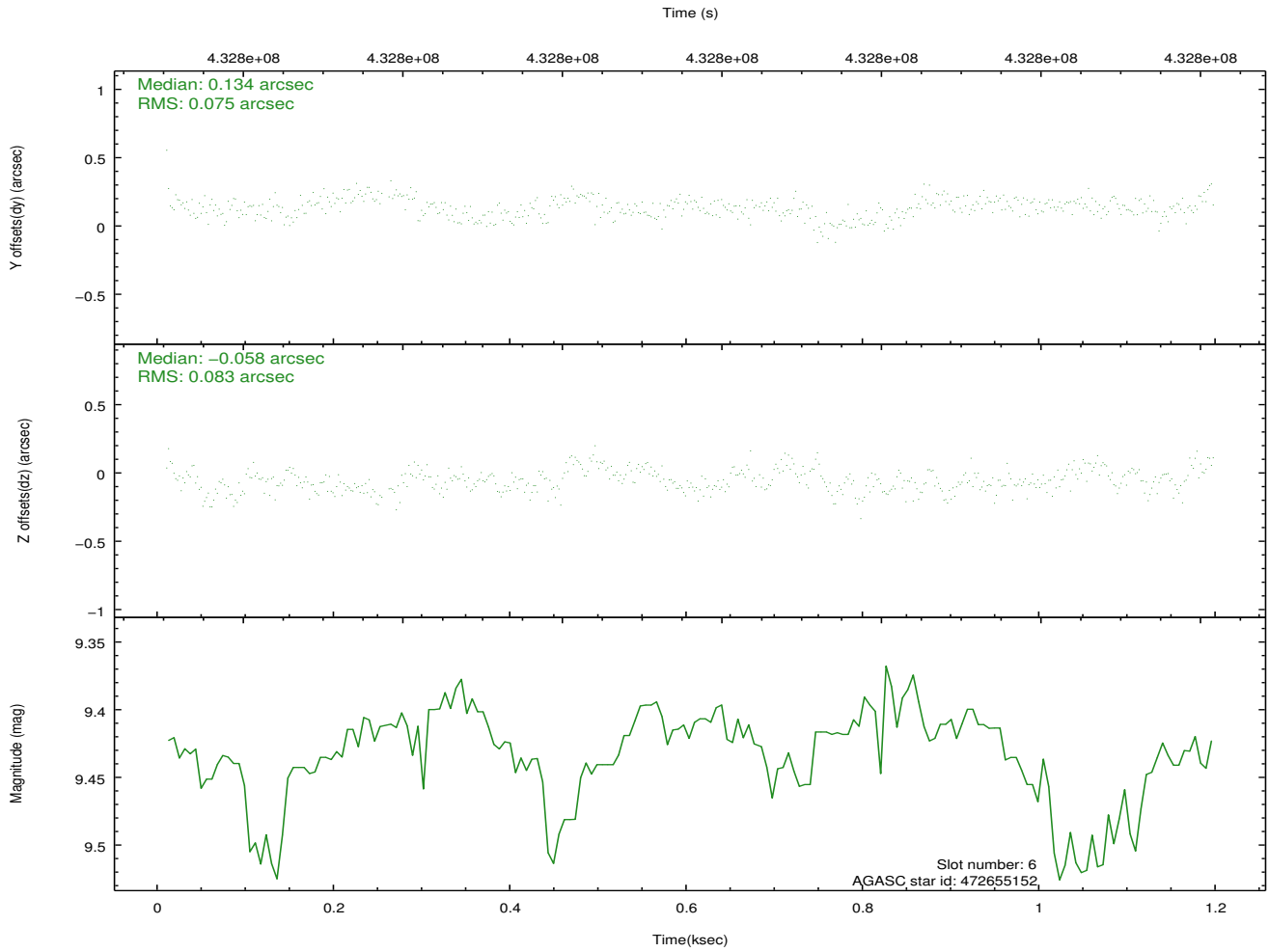
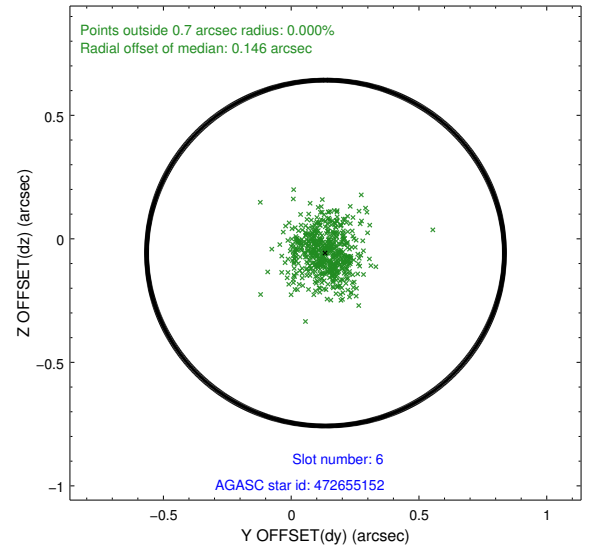
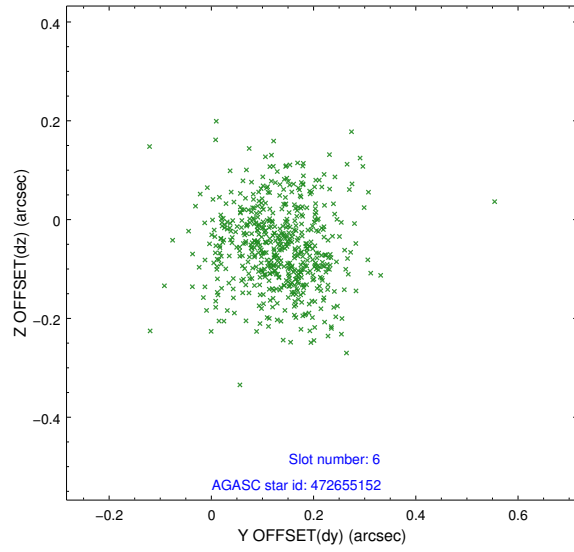
## 2.4.2 Slot 4



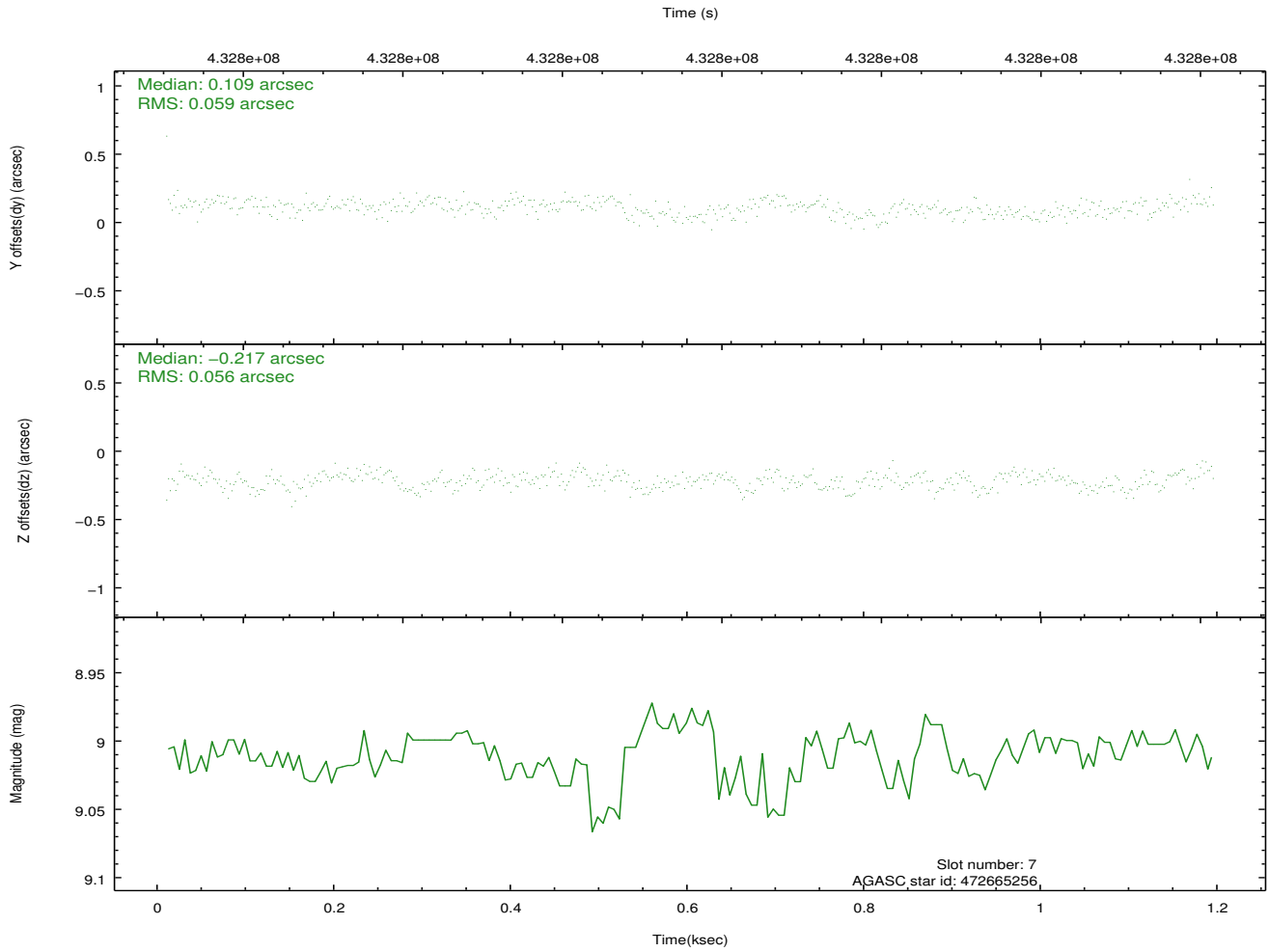
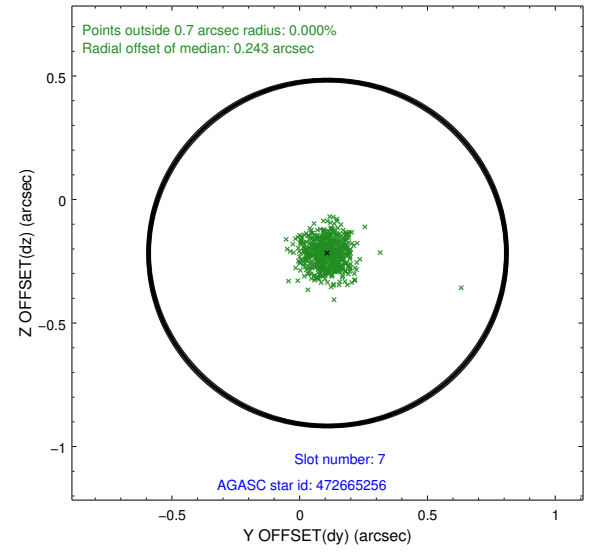
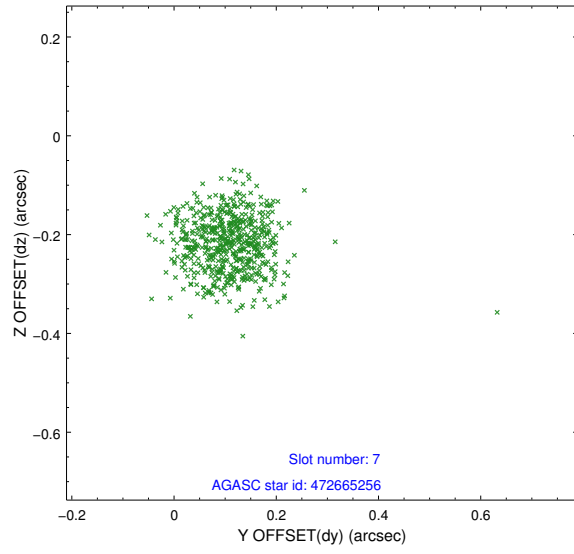
### 2.4.3 Slot 5



## 2.4.4 Slot 6

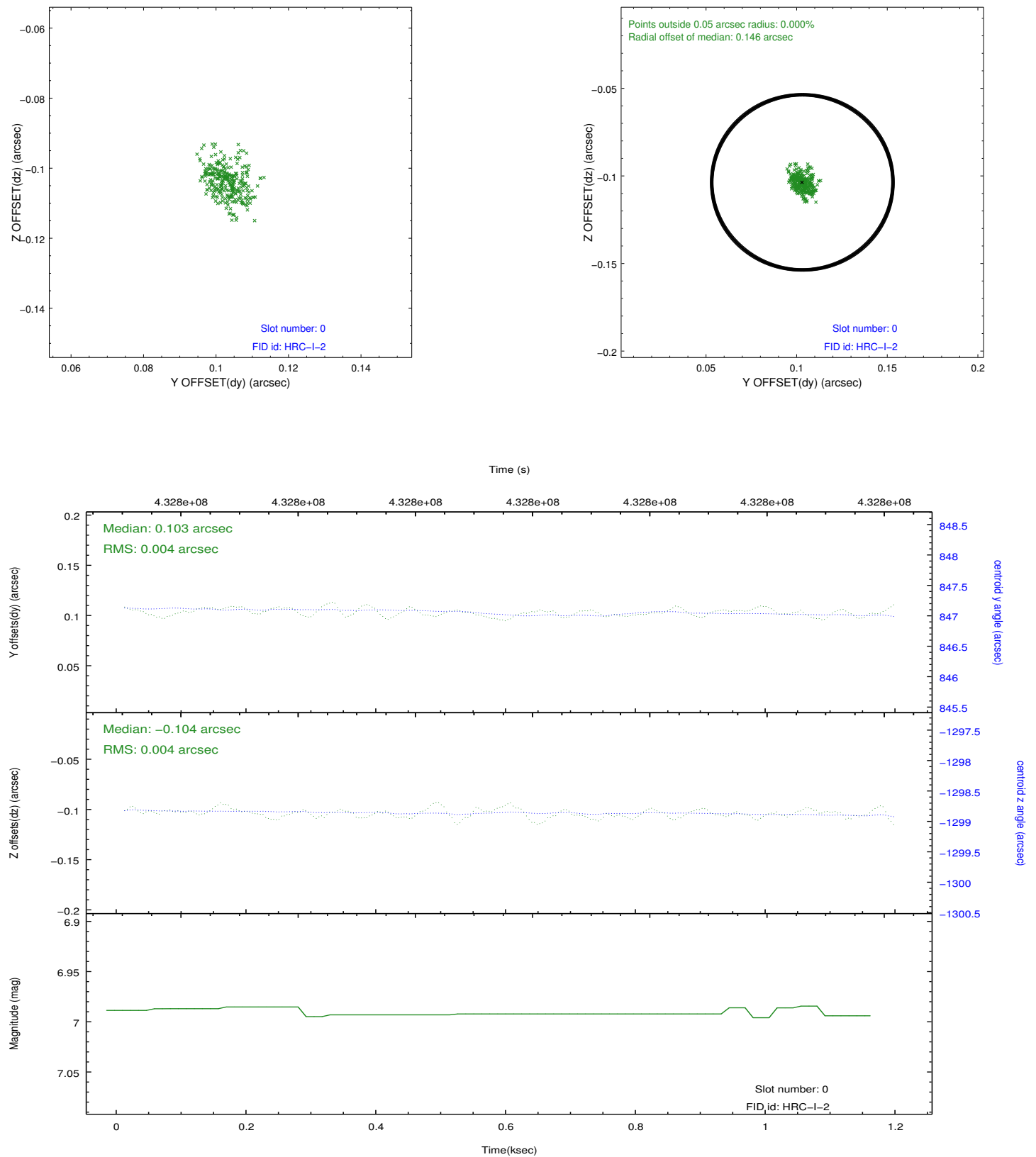


## 2.4.5 Slot 7

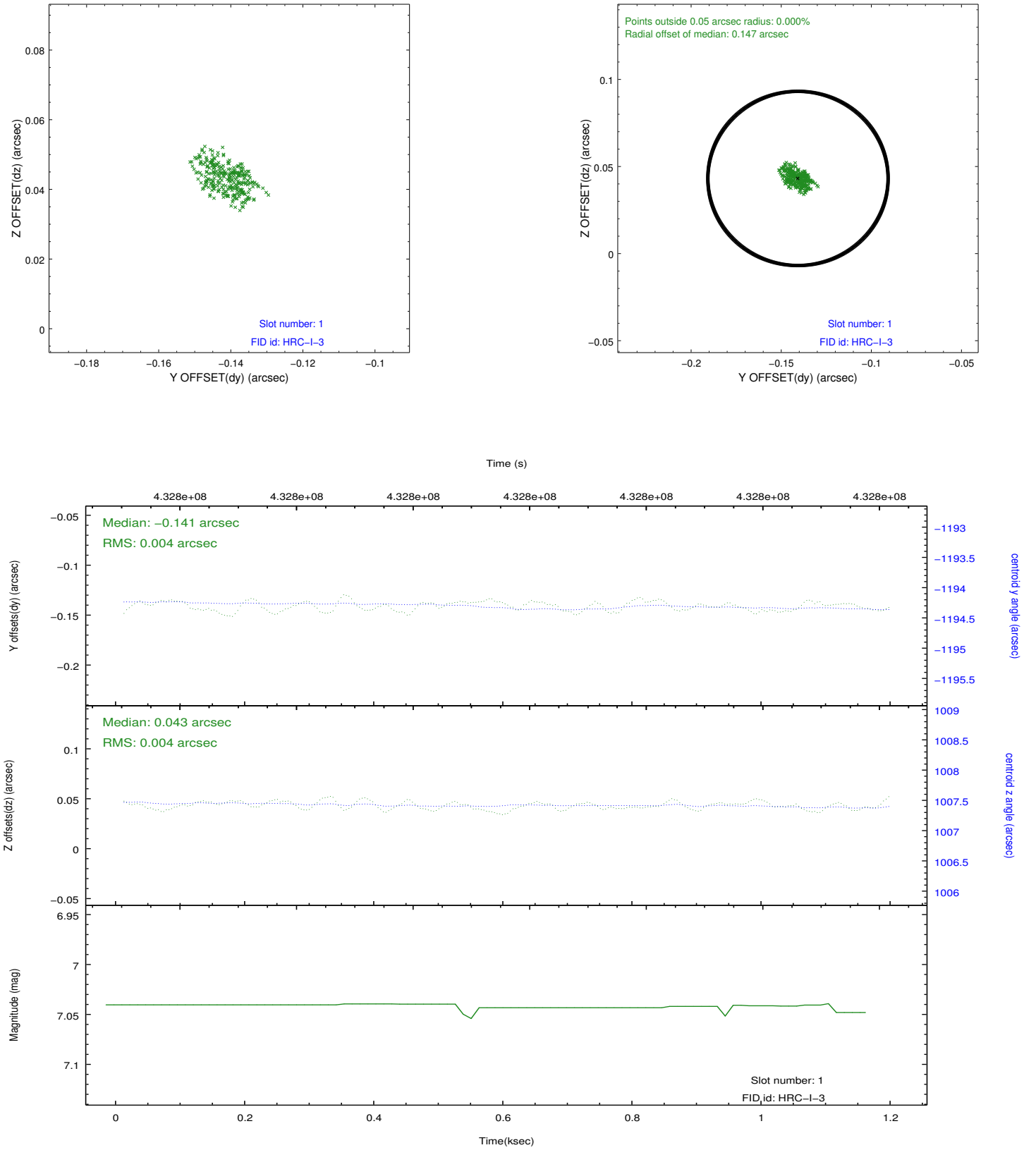


## 2.5 FID Slots

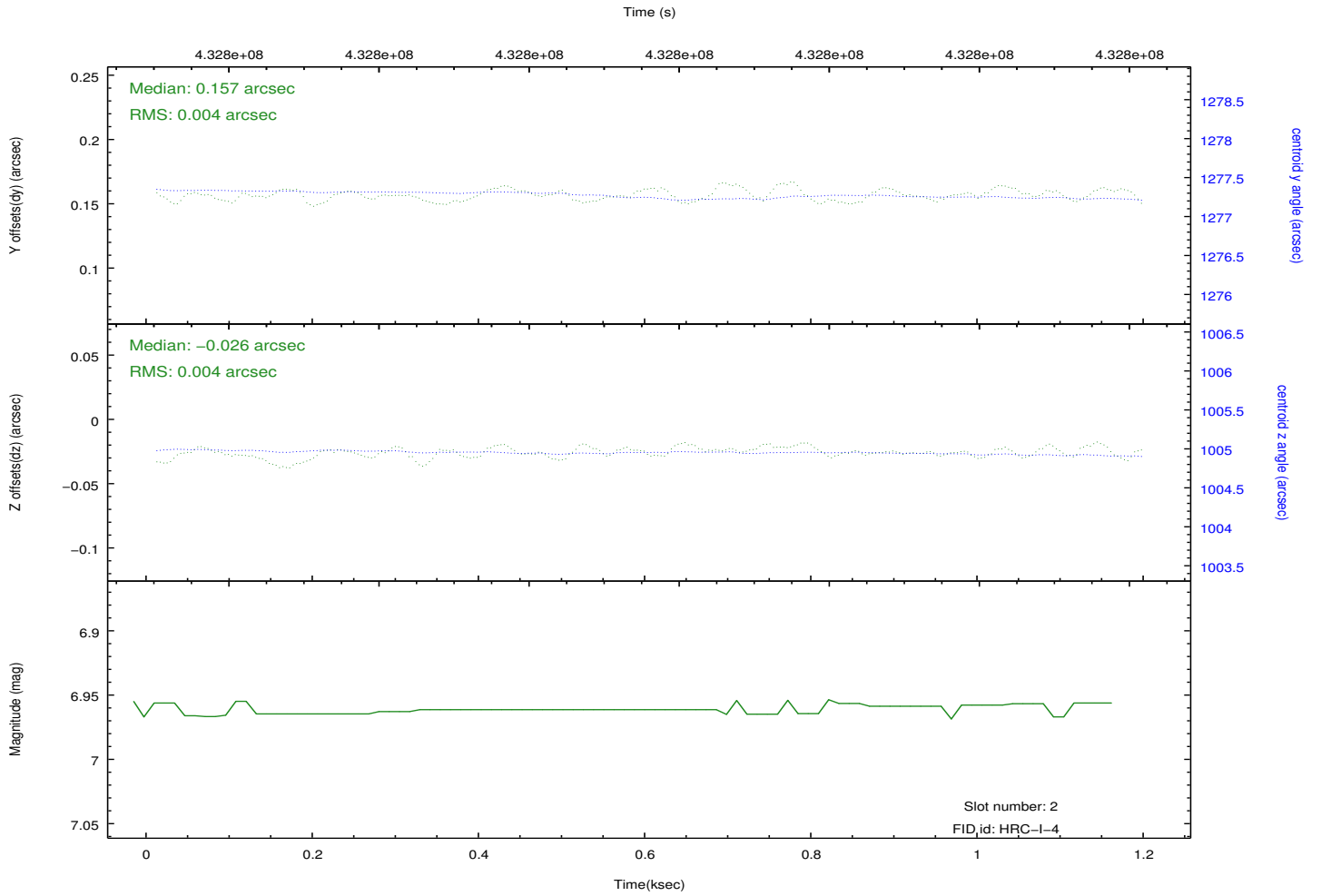
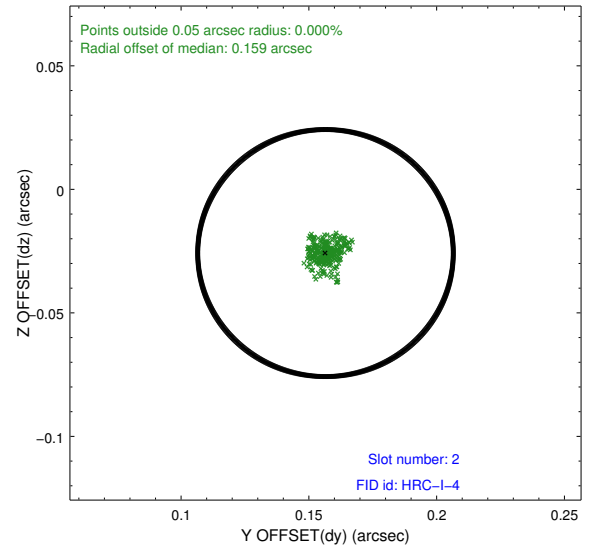
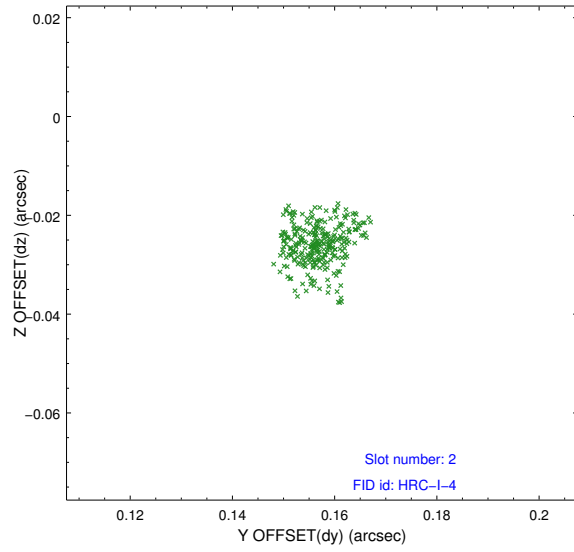
### 2.5.1 Slot 0



## 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)	2012.08.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.1861813122034

### **A.2 Comments**