

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 2366 - L2 Version 5  
Chandra X-Ray Center

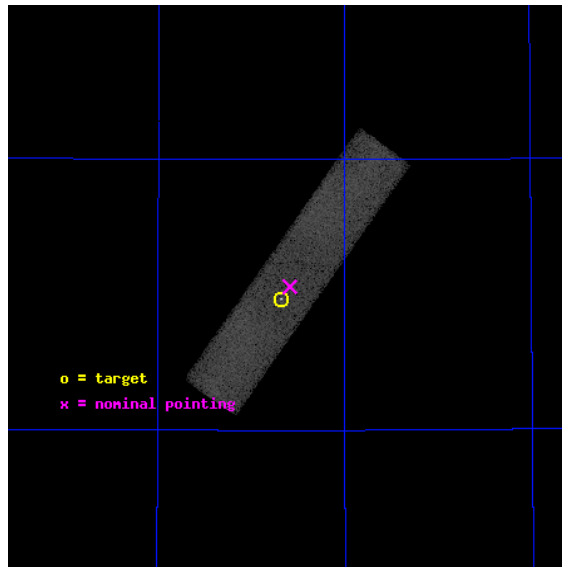
L2 Processing Date : Sep 4 2012

## 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

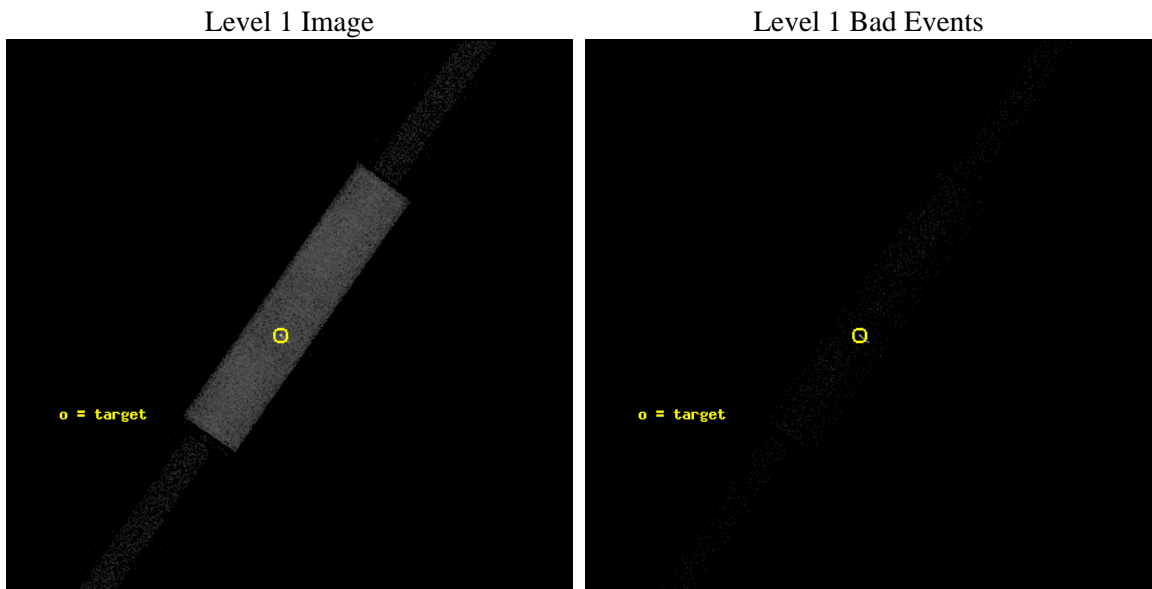
seq_num	290112	Sequence number
obs_id	2366	Observation id
title	HRC-I CALIBRATION OBSERVATIONS OF ARLAC	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ARLAC,HRC-S,AO2	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.14663811684	Nominal RA [deg]
dec_nom	45.765091383328	Nominal Dec [deg]
roll_nom	305.12523245406	Nominal Roll [deg]
revision	5	Processing version of data
ontime	1143.1312937438	[s]
livetime	1134.4642616275	Ontime multiplied by DTCOR
l2events	61648	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	1143.1312937438	[s]
caldbver	4.5.1.1	&#160	l1events	95289	Number of level 1 events
date	2012-09-05T01:20:22	Date and time of file creation			
revision	4	Processing version of data			

## 2.1.3 Events

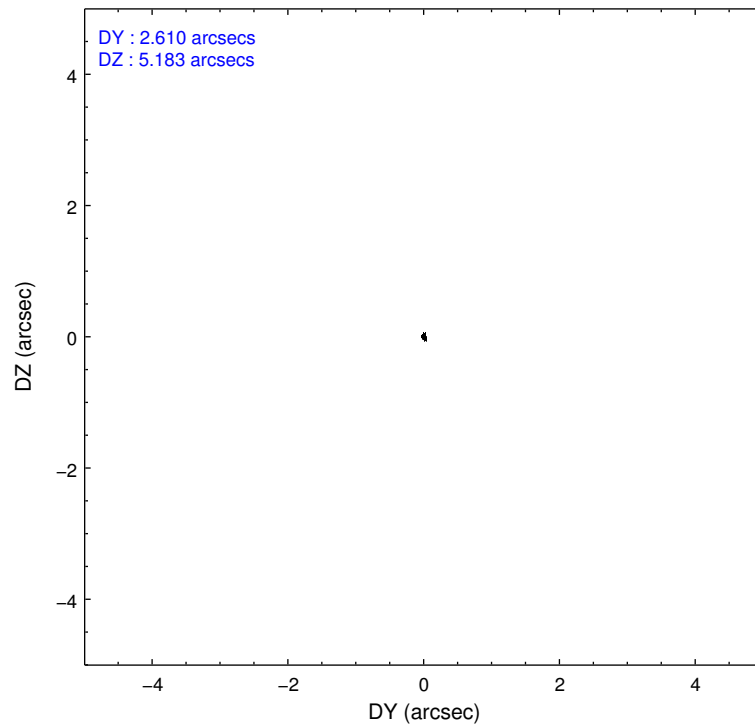
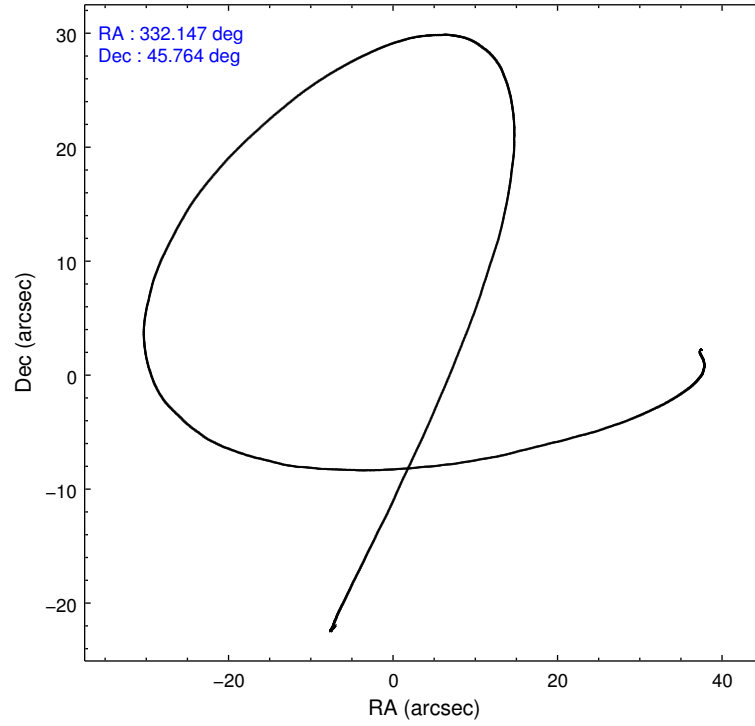
### Level 1 Events

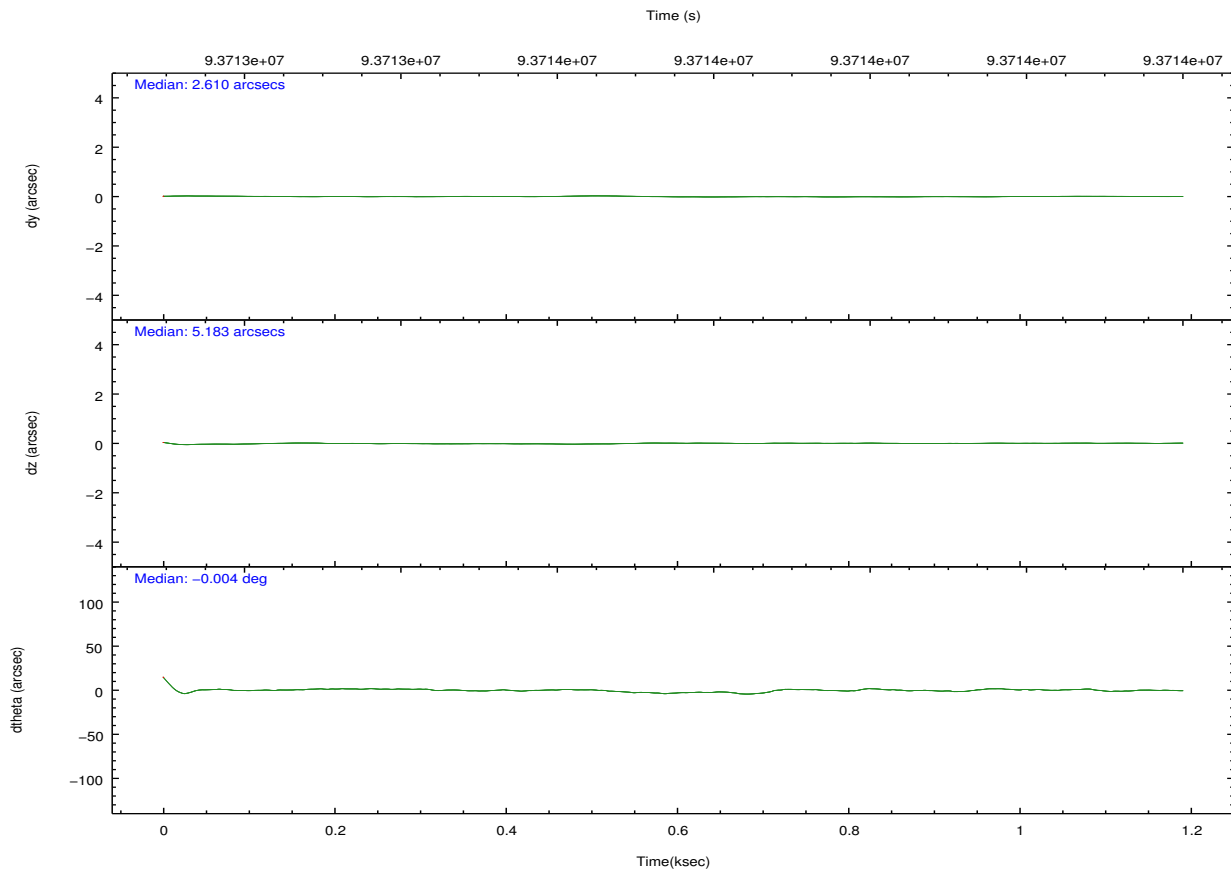
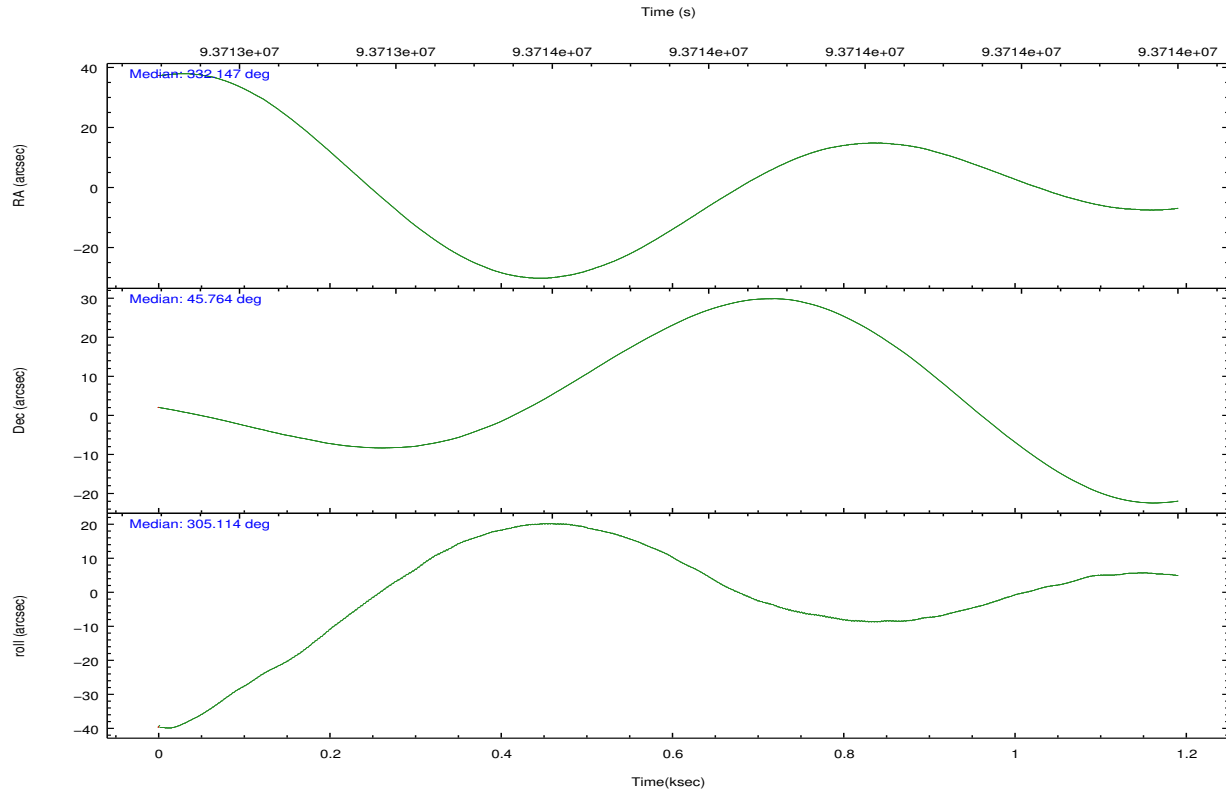
	<b>segment 1</b>	<b>segment 2</b>	<b>segment 3</b>
level 1 events	3579	88637	3073
rejected events	3579	17344	3073
rejected %	100%	19%	100%

## 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	332.108254	332.146638116841			
[deg] Pointing Dec	45.776416	45.7650913833281			
[deg] Pointing Roll	305.085462	305.1252324540554			
[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)	93713342.184000	93712965.75120001			
Observation start date	2000-12-20T15:27:58	2000-12-20T15:22:45			
[s] Observation end time (MET)	93714342.184000	93714476.08875801			
Observation end date	2000-12-20T15:44:38	2000-12-20T15:47:56			

## 2.3 Aspect



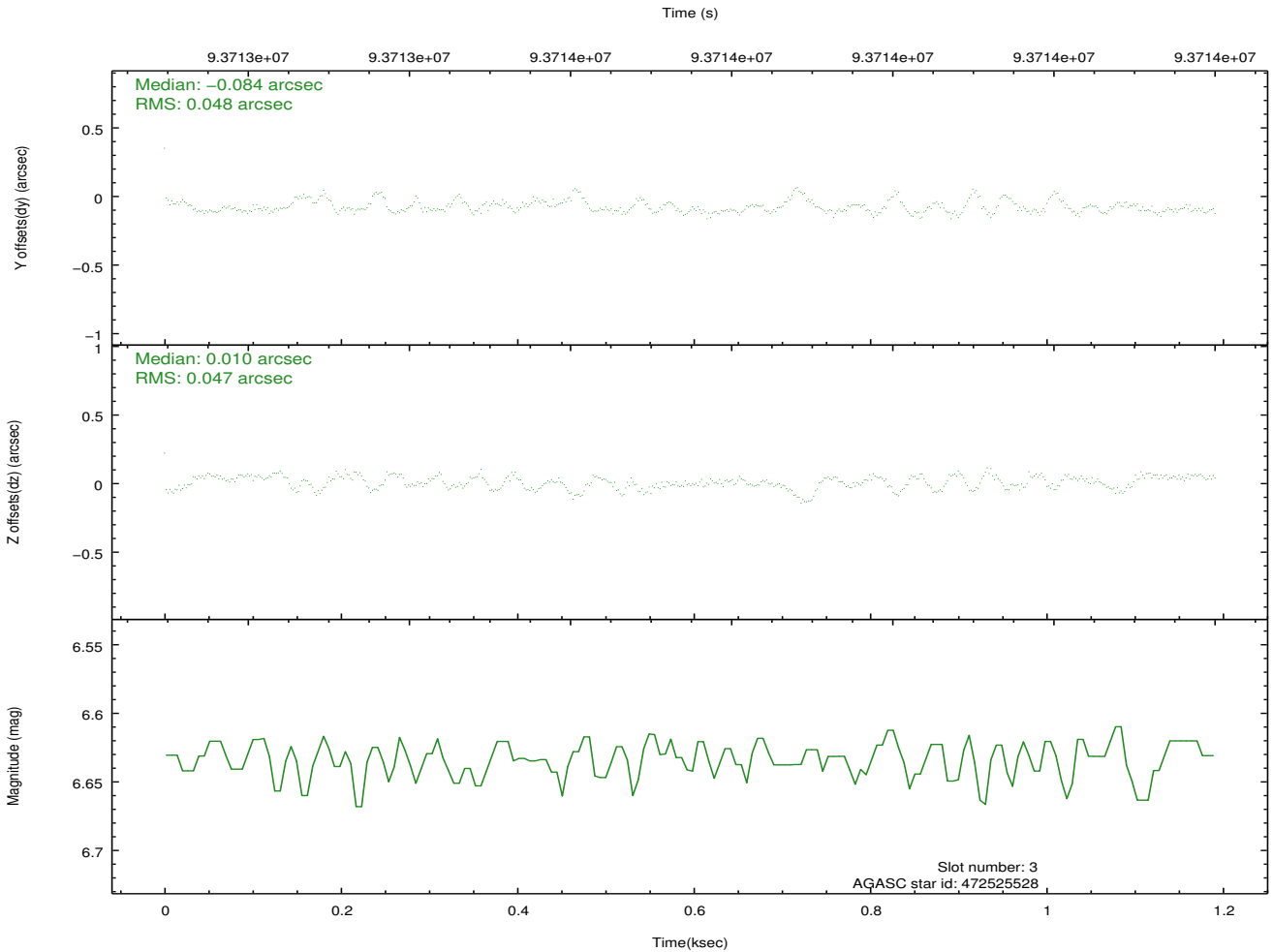
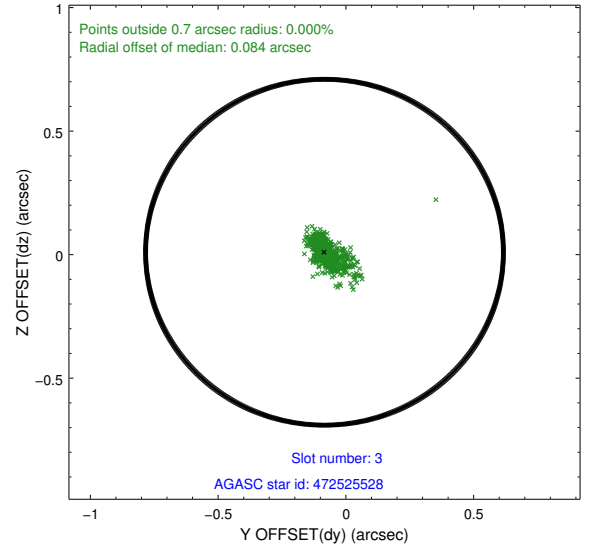
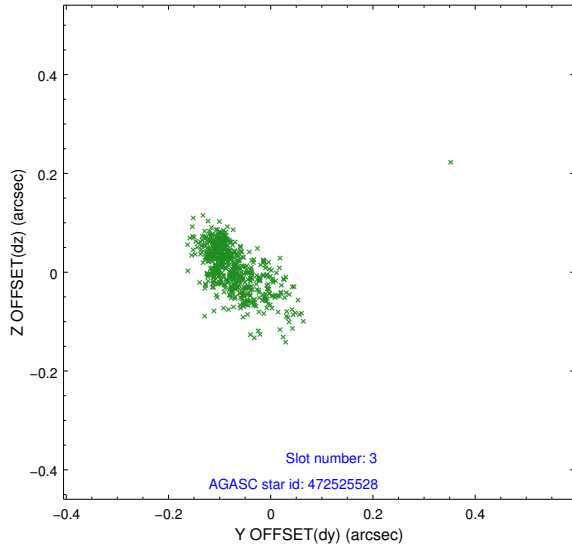


### Slot Statistics

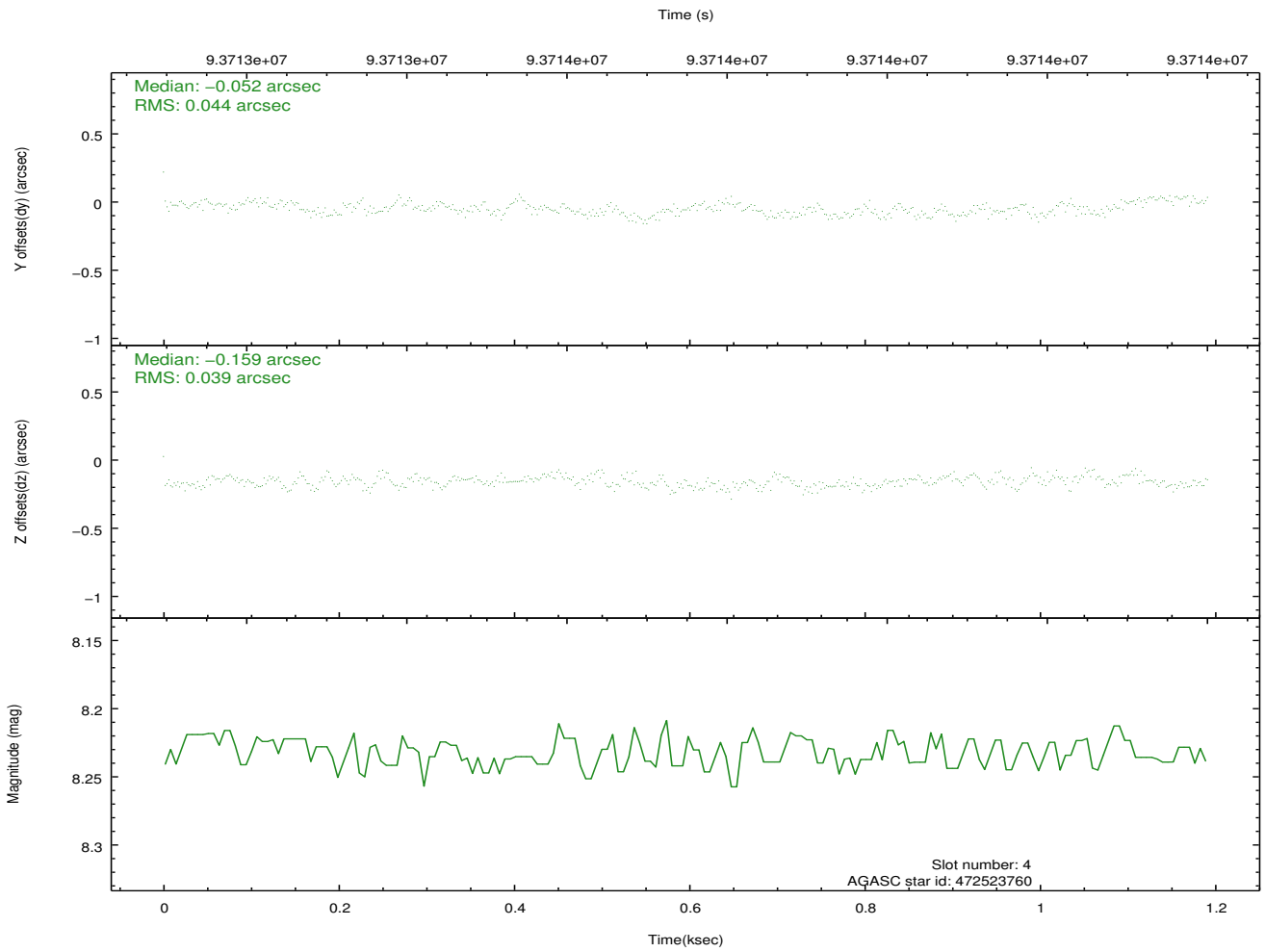
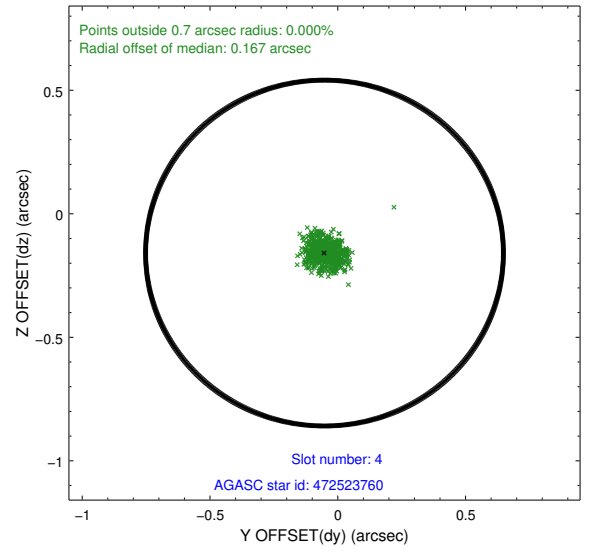
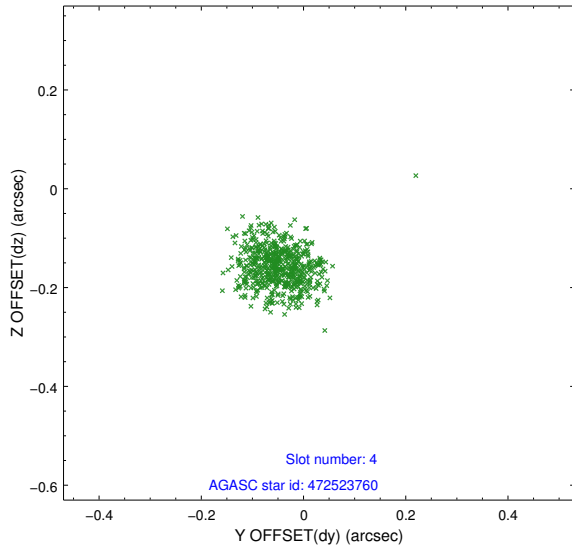
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-S-1	6.97	291	0.119	-0.155	0.010	0.032	0.000000	0.000000	-1156.66	-453.72
1	FID	HRC-S-3	7.00	291	0.141	-0.046	0.011	0.052	0.000000	0.000000	-1163.34	574.36
2	FID	HRC-S-4	6.94	291	0.126	-0.096	0.006	0.027	0.000000	0.000000	1237.60	580.43
3	GUIDE	472525528	6.63	582	-0.084	0.010	0.064	0.117	331.551102	45.248694	737.12	-2245.35
4	GUIDE	472523760	8.23	582	-0.052	-0.159	0.064	0.094	331.645363	45.403260	423.37	-1732.37
5	GUIDE	472665256	9.02	582	-0.124	-0.116	0.076	0.131	332.808125	46.195041	-239.03	2293.85
6	GUIDE	472655152	9.42	580	0.049	0.112	0.091	0.187	332.504239	45.862991	310.85	996.26
7	GUIDE	472646552	9.64	581	0.192	0.174	0.108	0.170	333.120915	45.571877	2054.47	1675.75

## 2.4 Star Slots

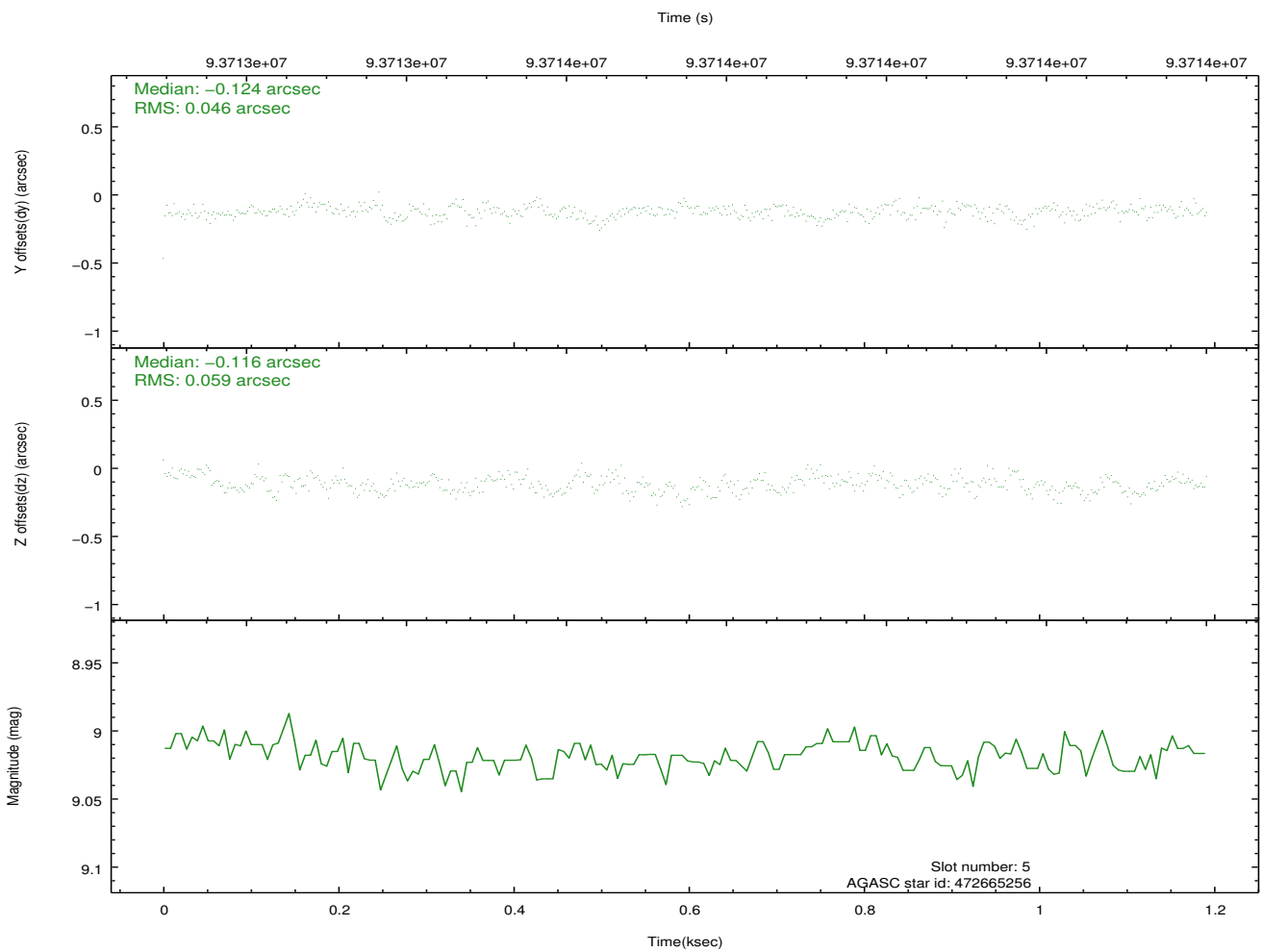
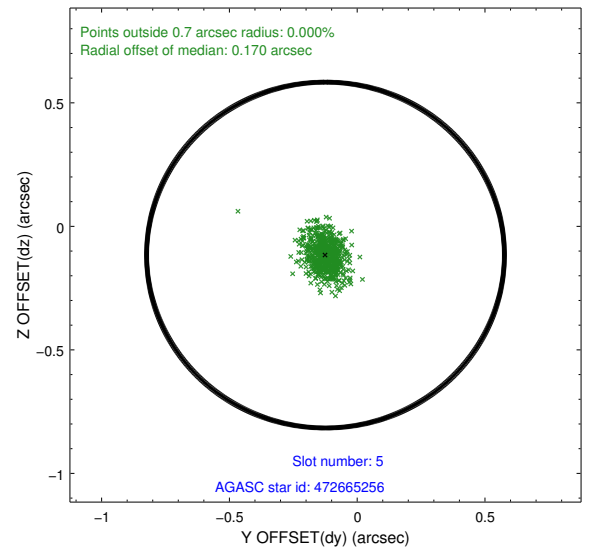
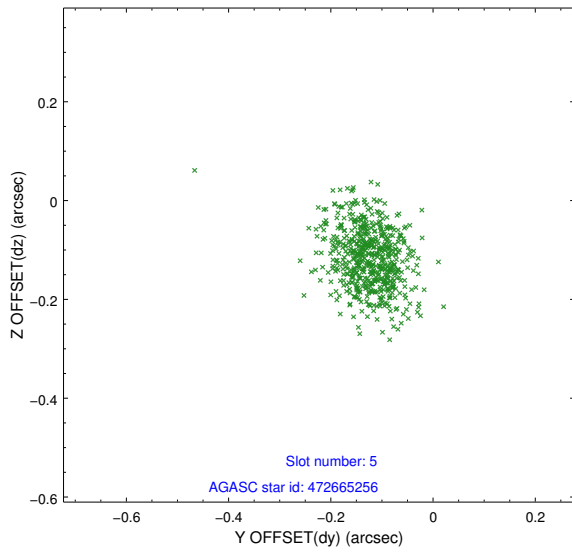
### 2.4.1 Slot 3



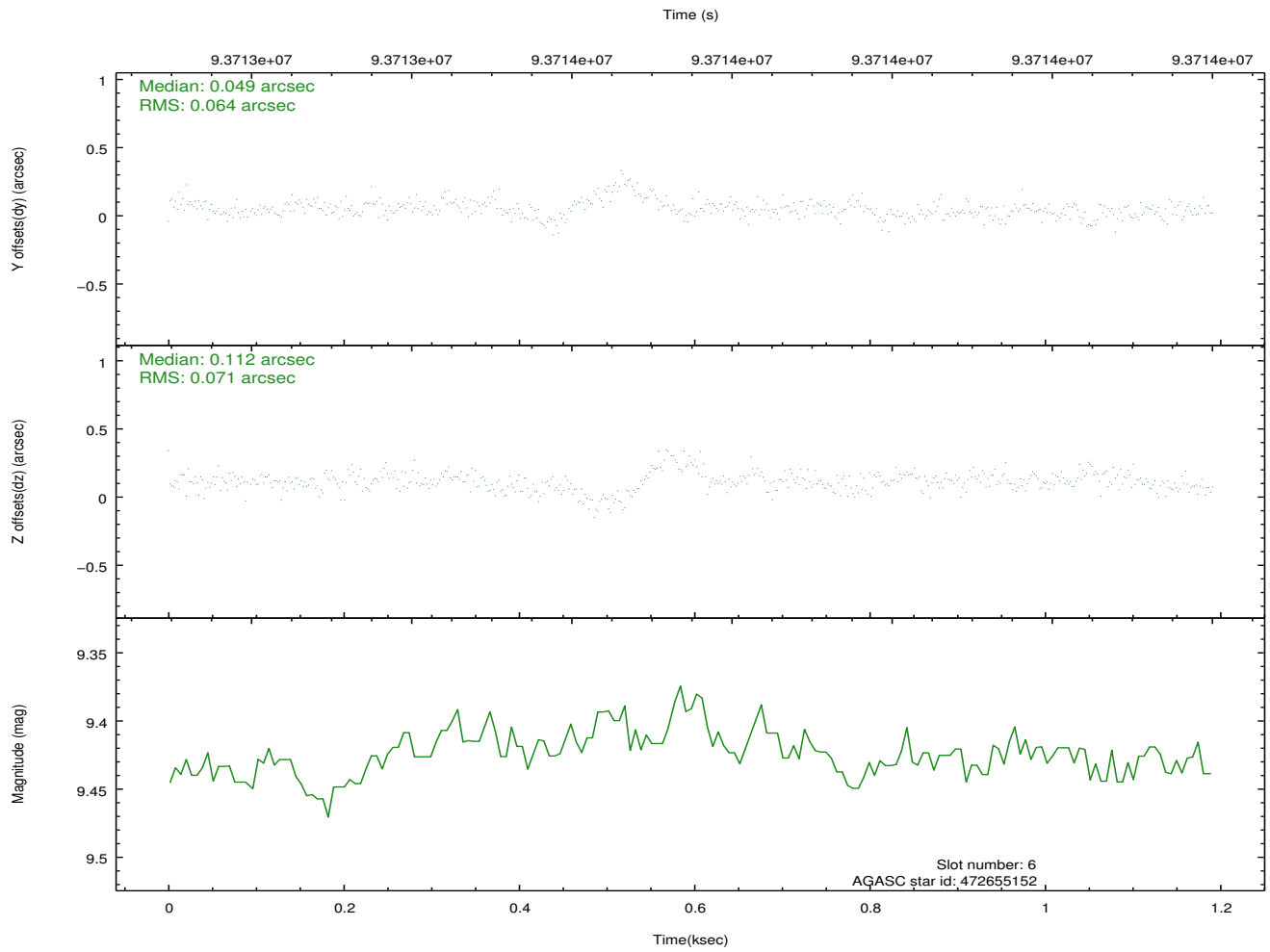
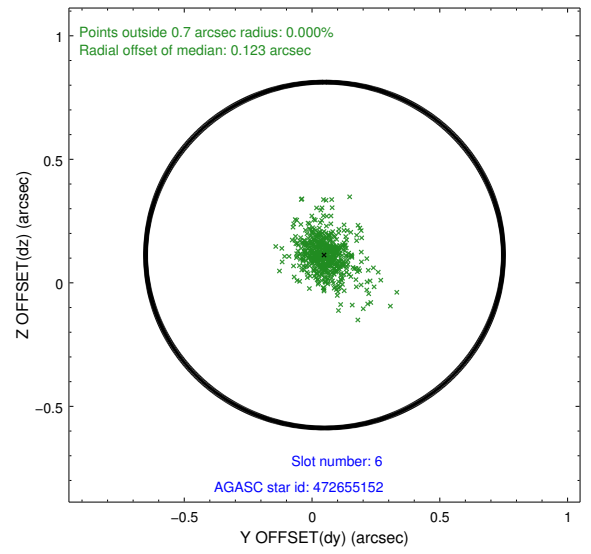
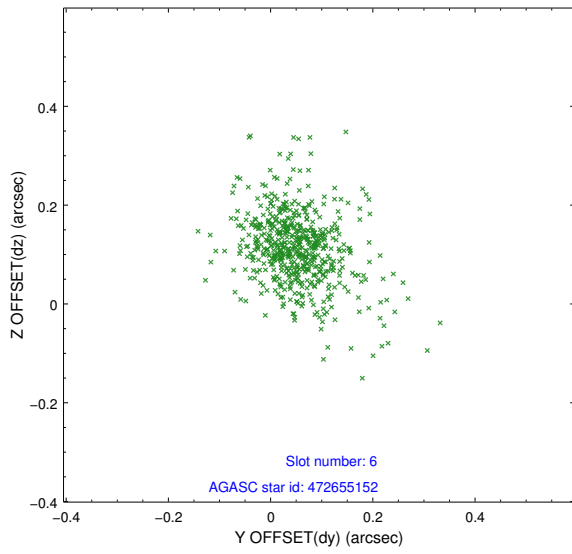
## 2.4.2 Slot 4



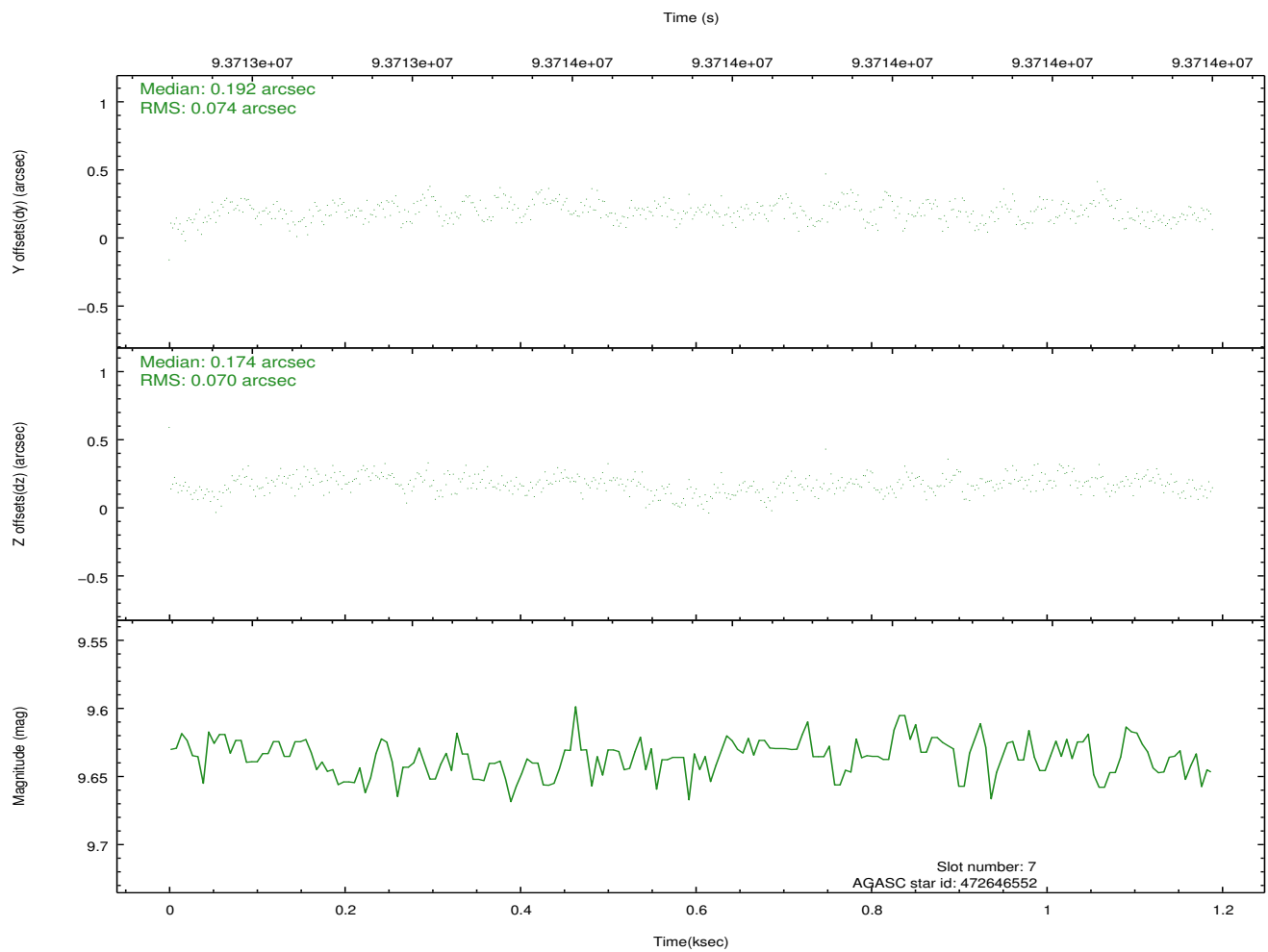
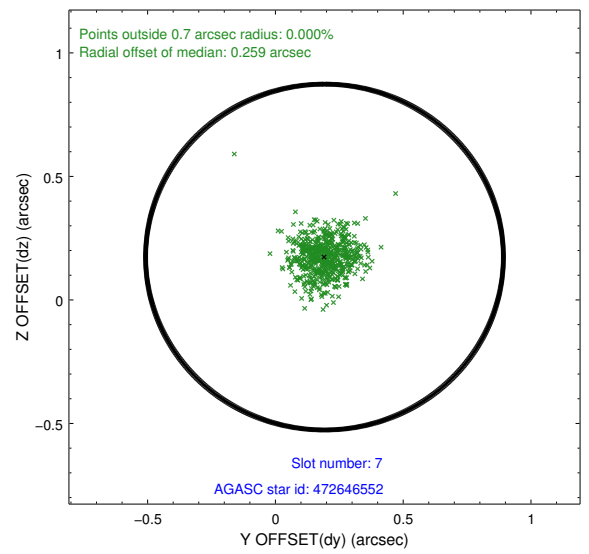
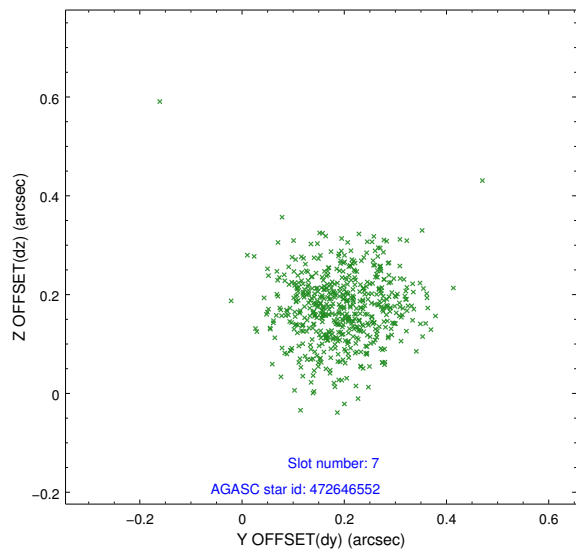
### 2.4.3 Slot 5



### 2.4.4 Slot 6

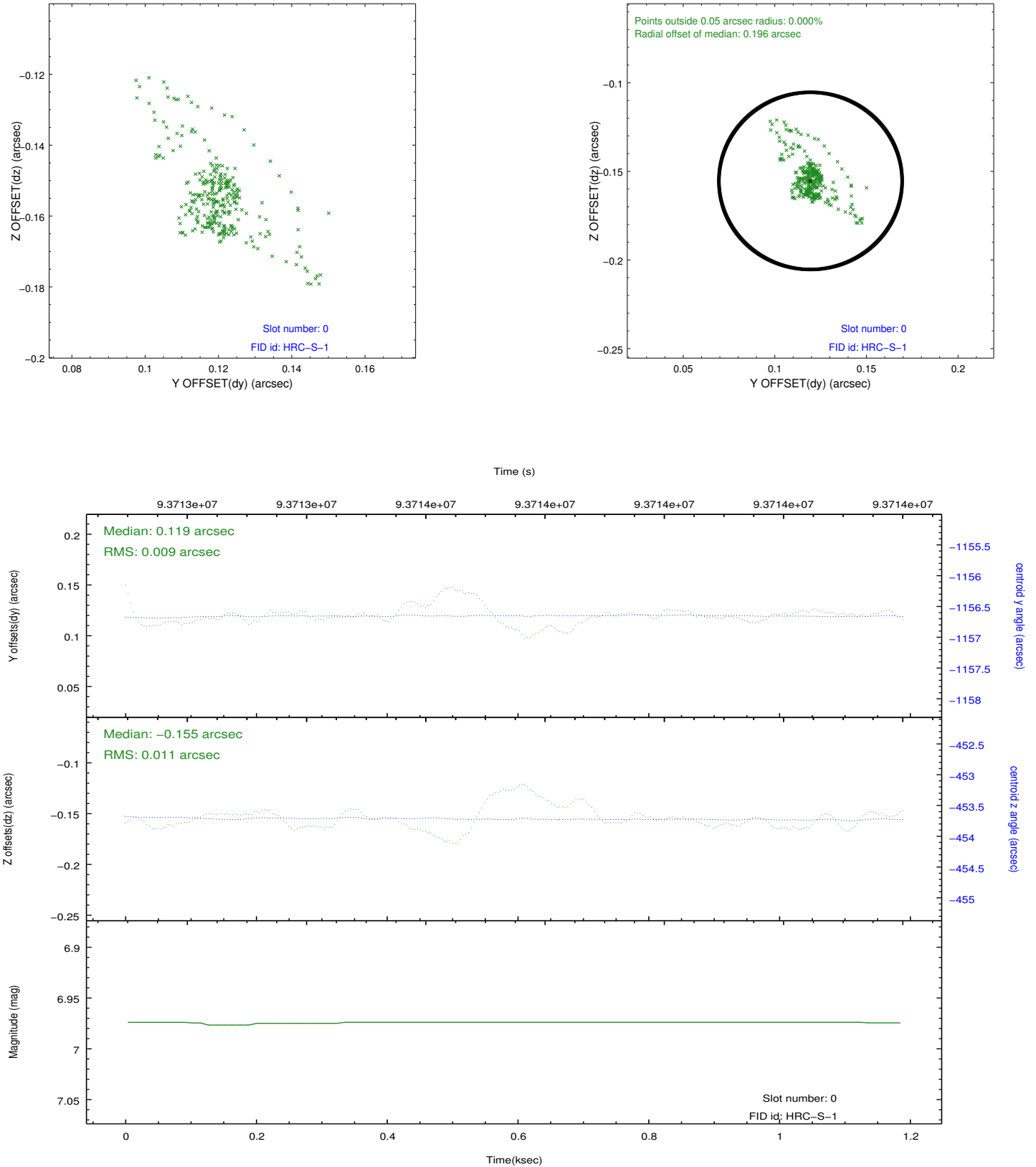


## 2.4.5 Slot 7

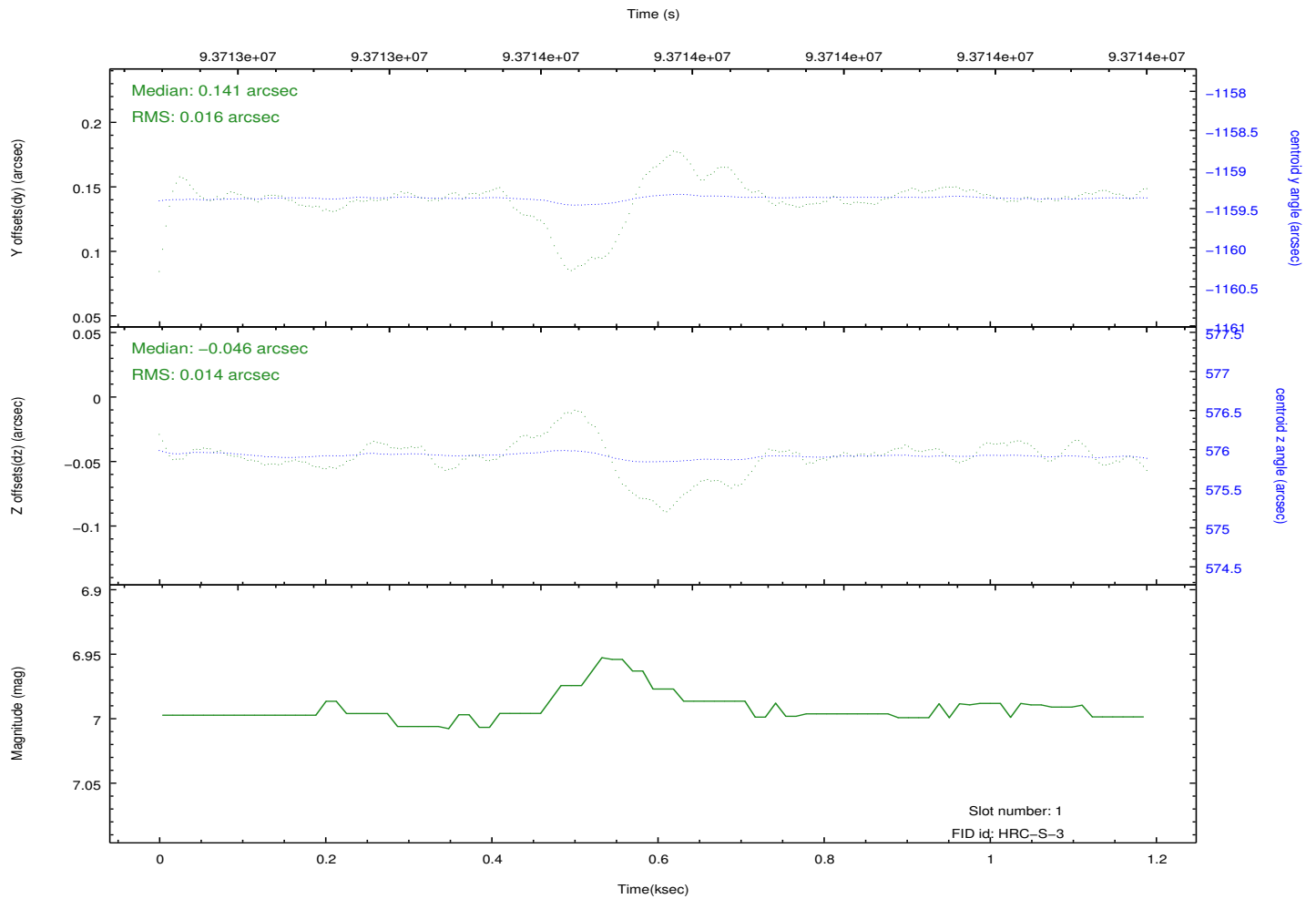
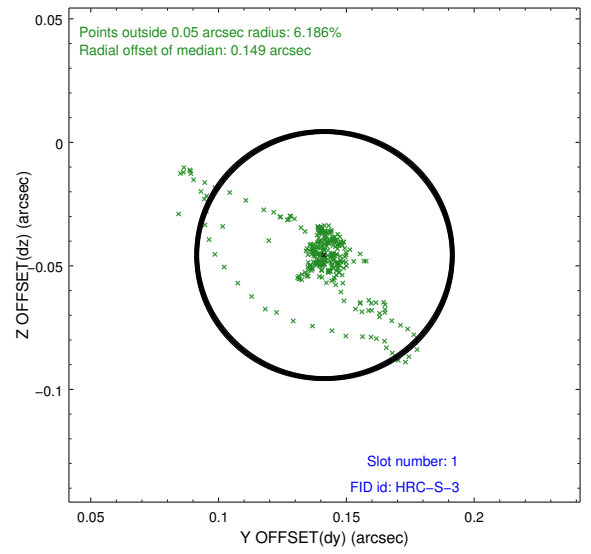
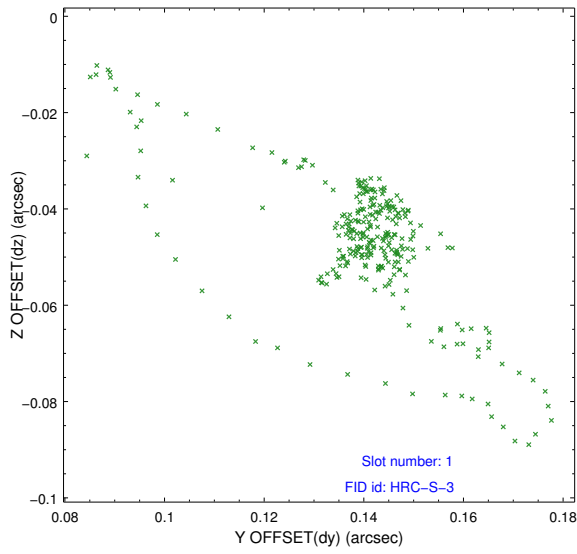


## 2.5 FID Slots

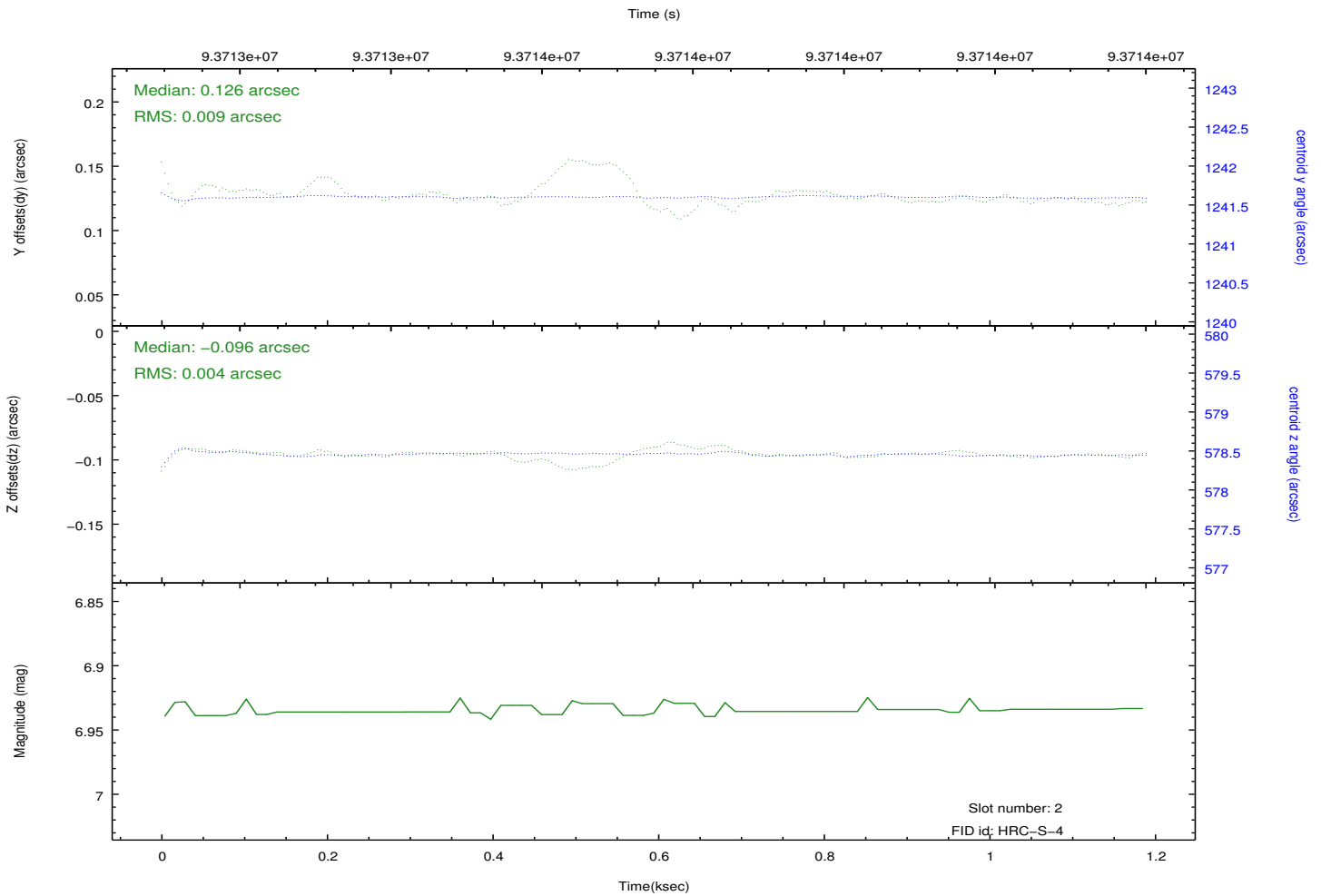
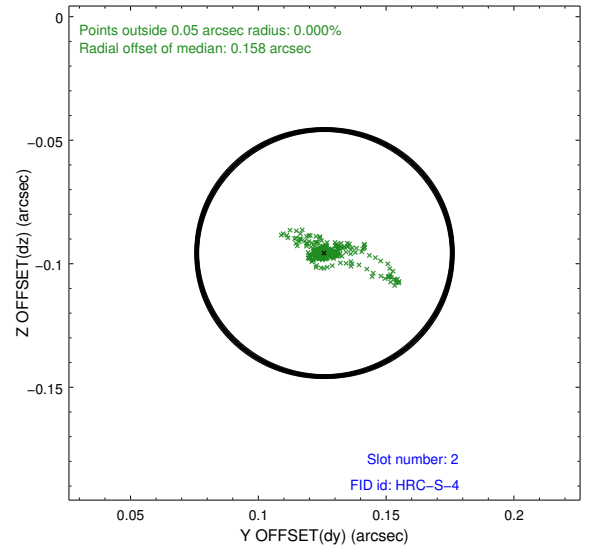
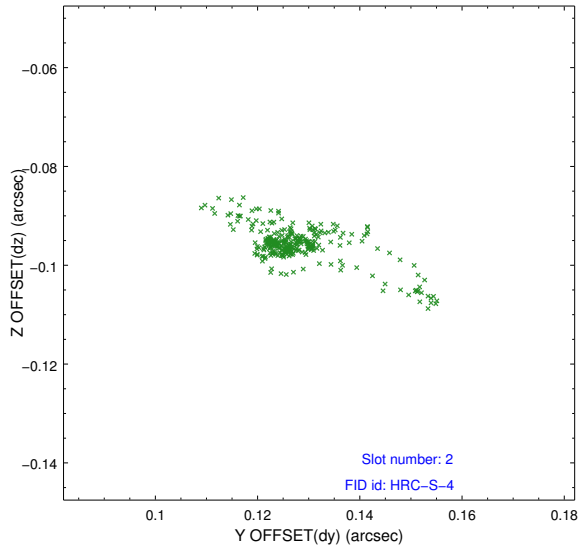
### 2.5.1 Slot 0



## 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)	2012.09.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.19

## A.2 Comments

Charge time for this ObsId remains at previous value of 1.19 ks although with the current processing the charge time would have been 1.14 ksec.