

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 2440 - L2 Version 5  
Chandra X-Ray Center

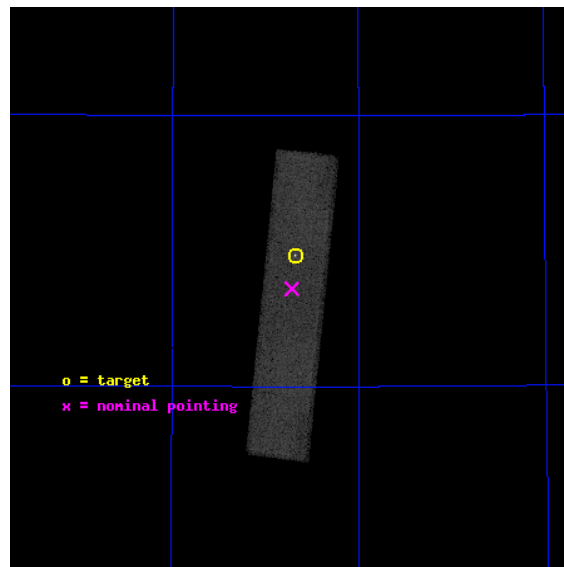
L2 Processing Date : Sep 18 2012

## 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

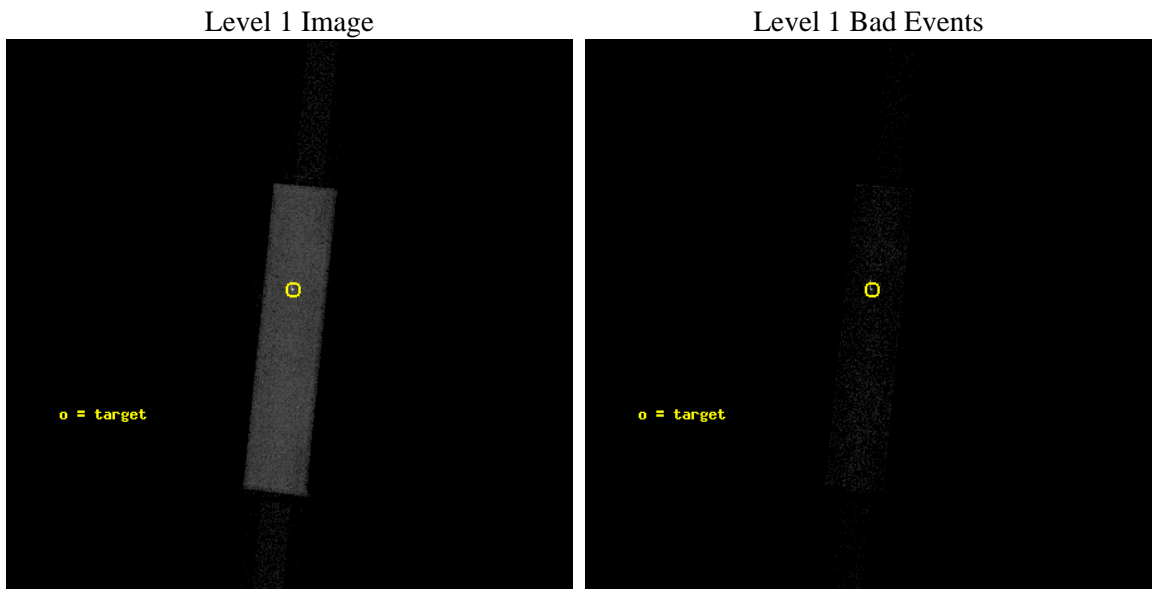
seq_num	290078	Sequence number
obs_id	2440	Observation id
title	HRC-I CALIBRATION OBSERVATIONS OF ARLAC	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ARLAC	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.1792952502	Nominal RA [deg]
dec_nom	45.680770736936	Nominal Dec [deg]
roll_nom	95.762951846579	Nominal Roll [deg]
revision	5	Processing version of data
ontime	1374.7813033909	[s]
livetime	1364.3454420365	Ontime multiplied by DTCOR
l2events	76846	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	1234.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	1374.7813033909	[s]
caldbver	4.5.1.1	&#160	l1events	122040	Number of level 1 events
date	2012-09-18T22:54:42	Date and time of file creation			
revision	4	Processing version of data			

### 2.1.3 Events

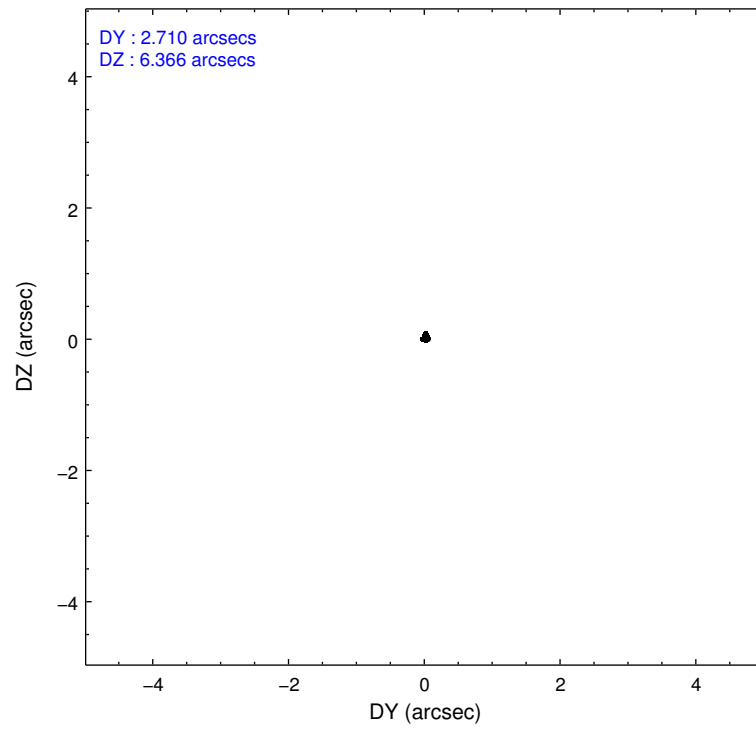
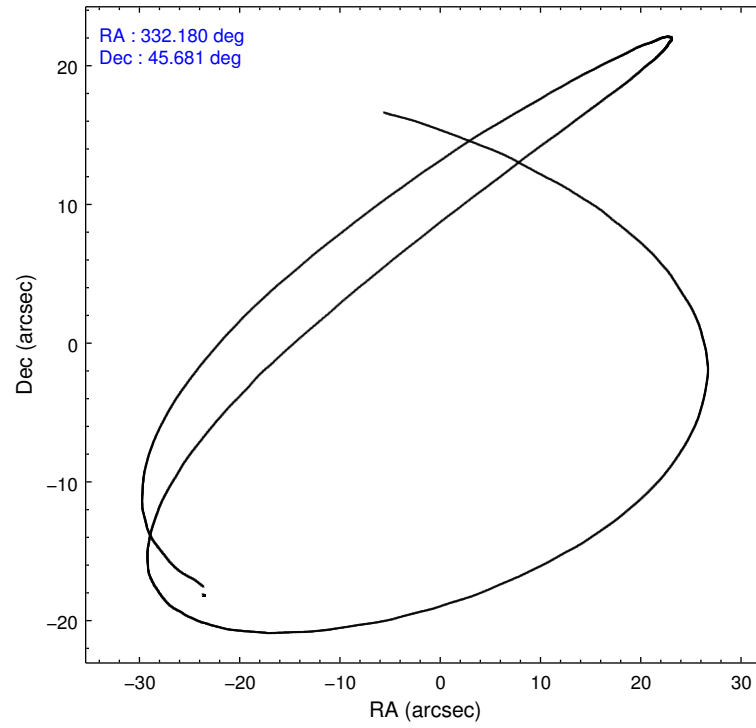
Level 1 Events

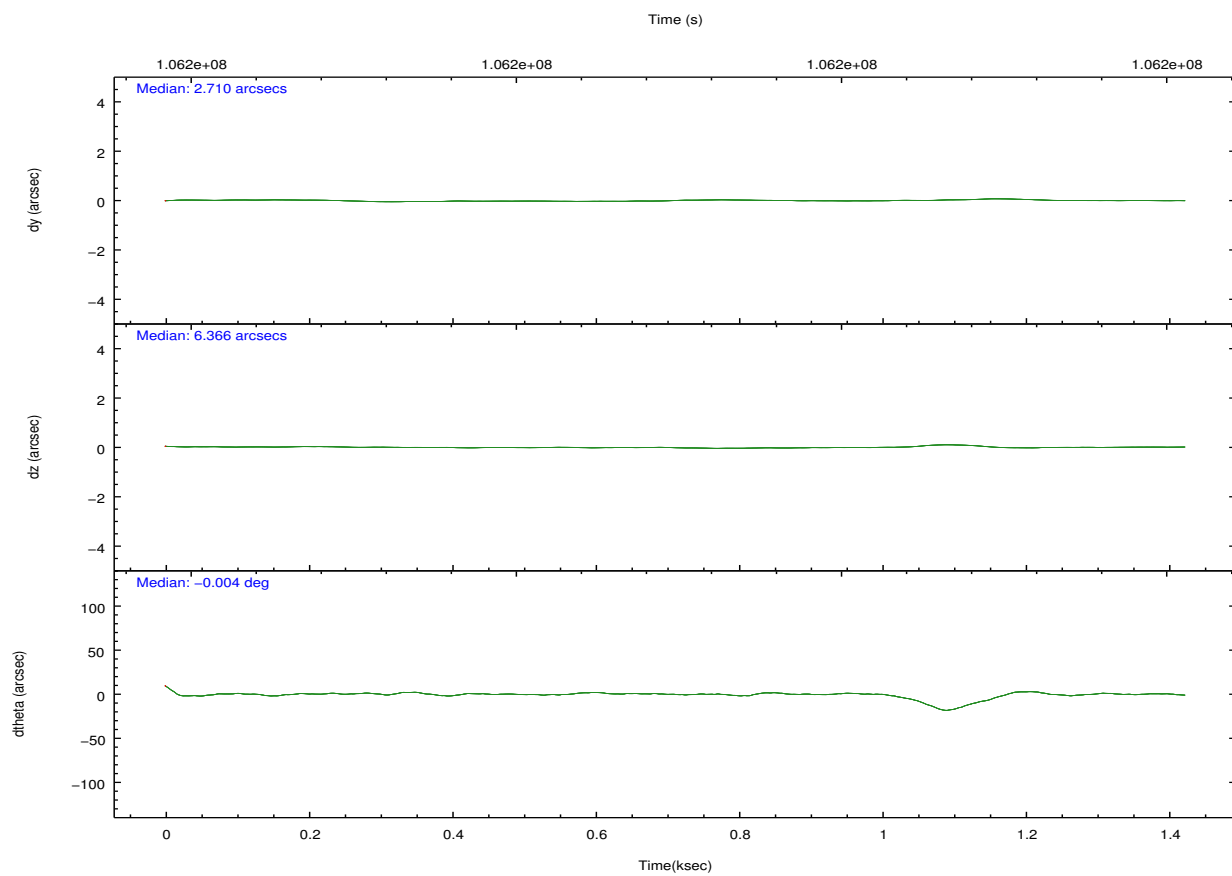
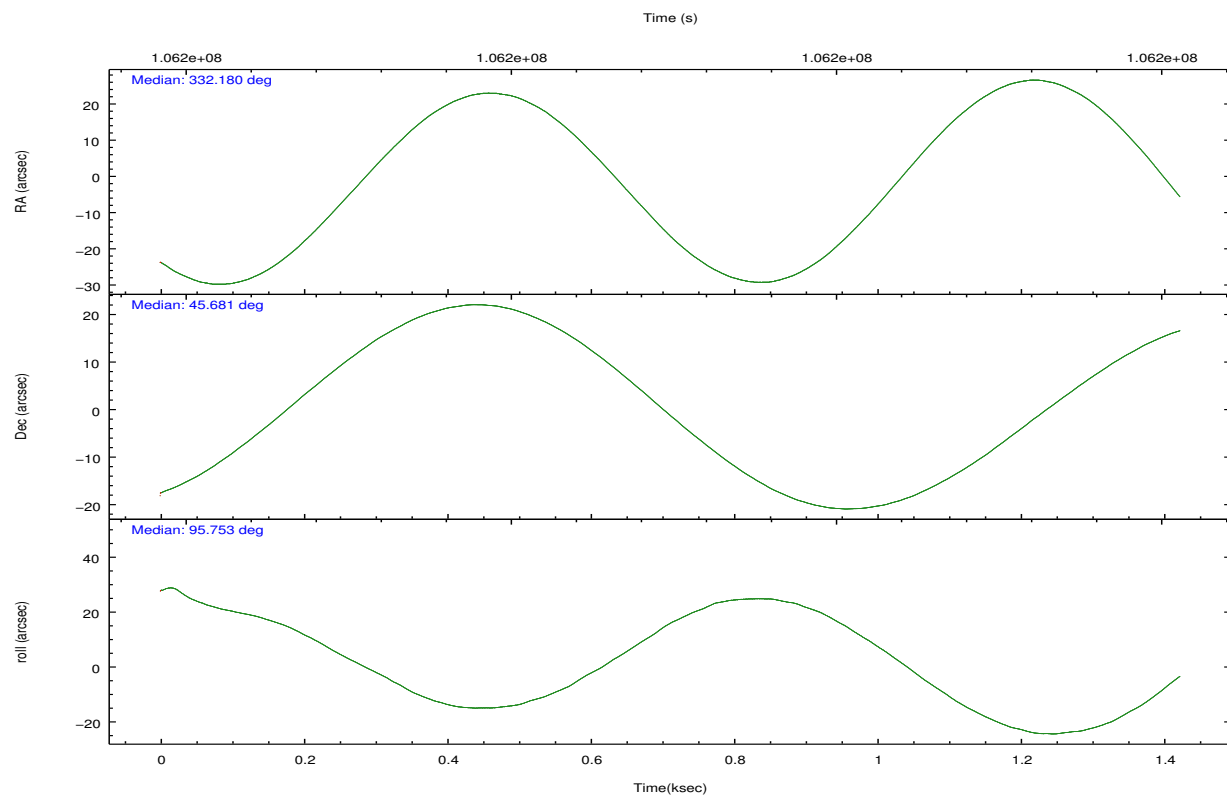
	segment 1	segment 2	segment 3
level 1 events	2551	117260	2229
rejected events	2551	28090	2229
rejected %	100%	23%	100%

## 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	332.204528	332.179295250196			
[deg] Pointing Dec	45.658285	45.68077073693557			
[deg] Pointing Roll	95.677457	95.76295184657873			
[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)	106202219.184000	106201842.47073			
Observation start date	2001-05-14T04:35:55	2001-05-14T04:30:42			
[s] Observation end time (MET)	106203453.184000	106203587.02079			
Observation end date	2001-05-14T04:56:29	2001-05-14T04:59:47			

## 2.3 Aspect





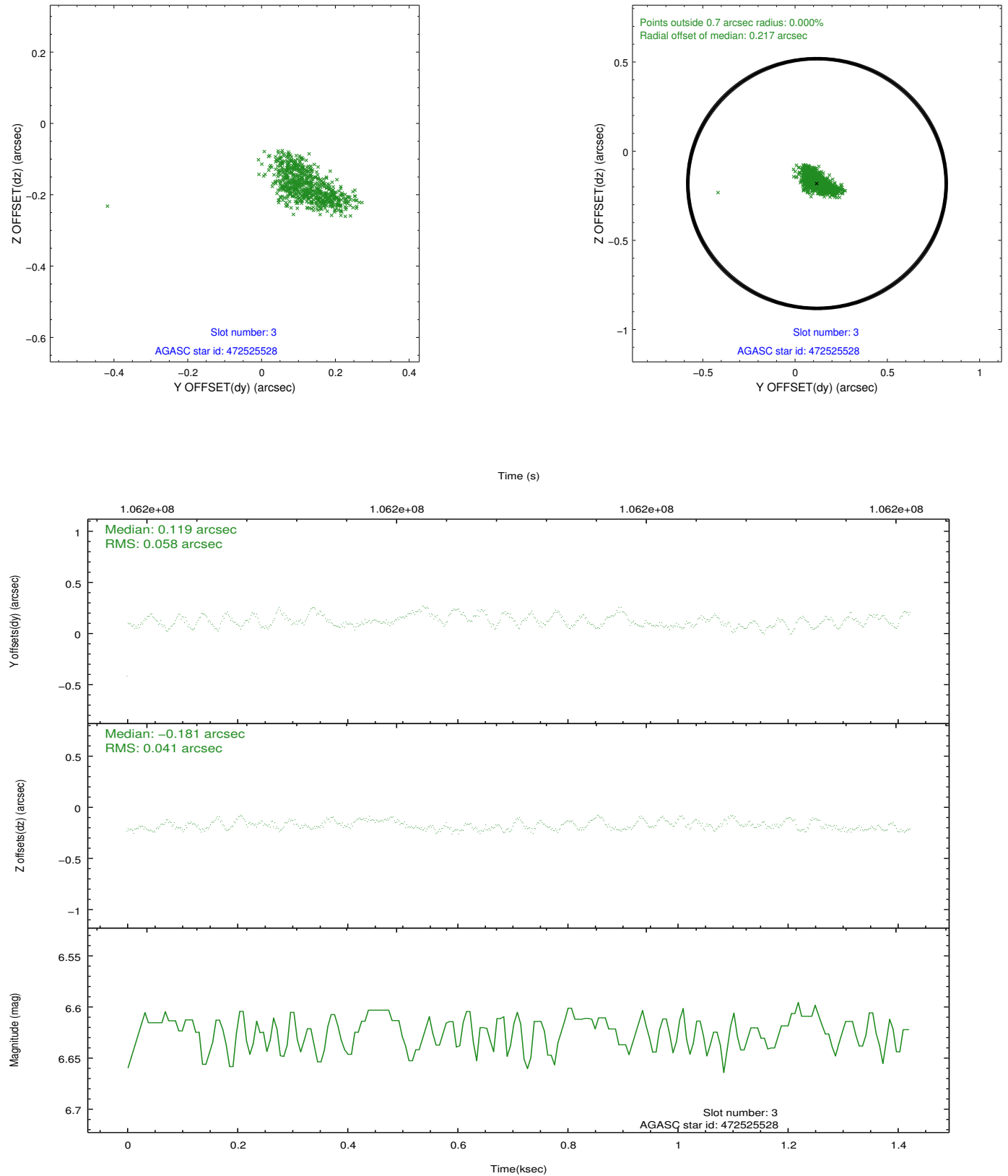
### Slot Statistics

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	347	0.136	-0.105	0.006	0.099	0.000000	0.000000	-1156.74	-454.91
1	FID	HRC-S-2	6.98	347	0.125	-0.151	0.010	0.046	0.000000	0.000000	1239.61	-448.86
2	FID	HRC-S-4	6.93	348	0.142	-0.046	0.008	0.072	0.000000	0.000000	1245.08	576.00
3	GUIDE	472525528	6.62	695	0.119	-0.181	0.073	0.119	331.551102	45.248694	-1297.28	1792.93
4	GUIDE	472527720	7.01	695	0.128	-0.139	0.077	0.132	331.460205	45.112509	-1761.82	2077.56
5	GUIDE	472523760	8.24	695	0.014	0.000	0.053	0.089	331.645363	45.403260	-771.98	1499.74
6	GUIDE	472665256	9.01	695	-0.180	0.218	0.073	0.118	332.808125	46.195041	1778.40	-1685.75
7	GUIDE	472659832	9.47	694	-0.108	0.096	0.090	0.144	332.780399	46.098139	1441.09	-1589.69

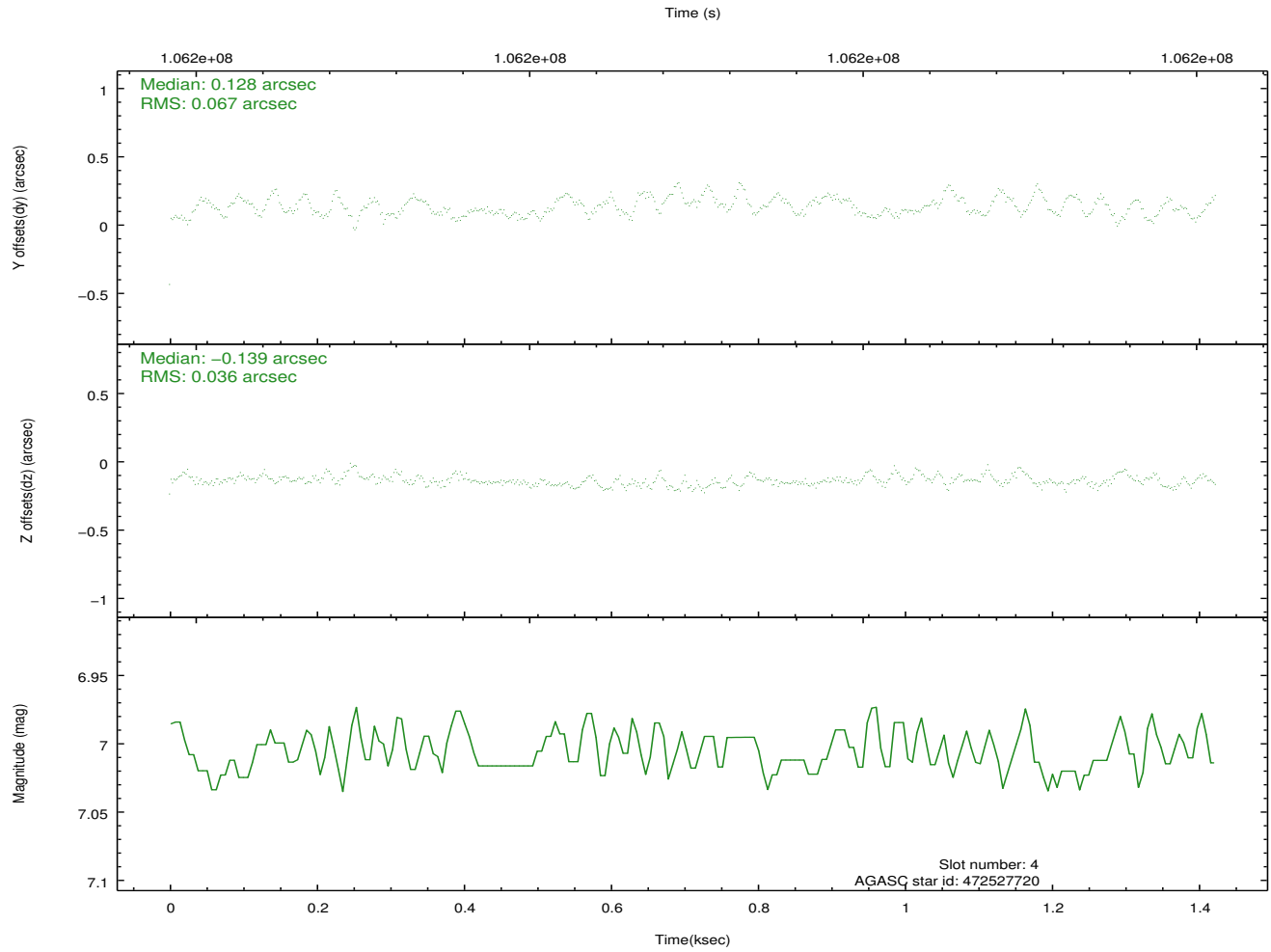
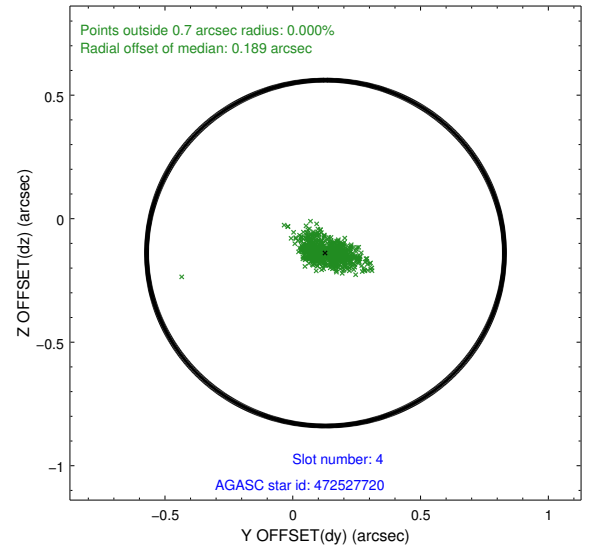
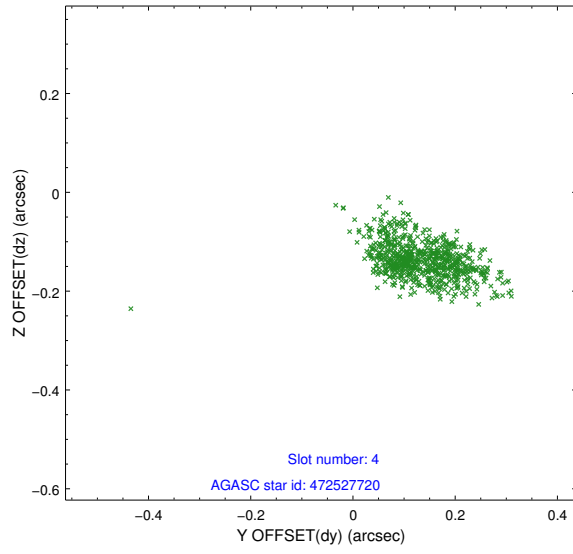


## 2.4 Star Slots

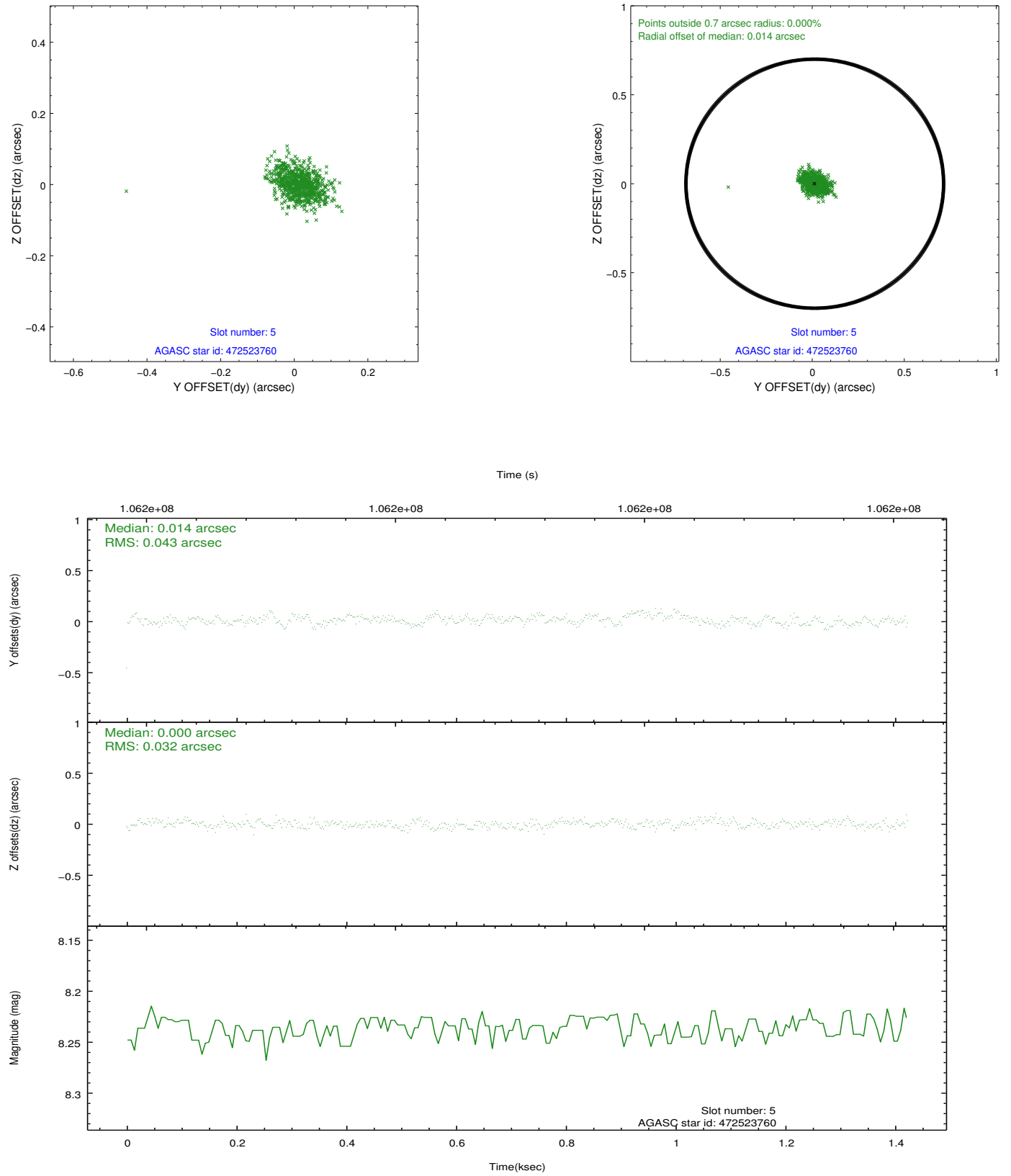
### 2.4.1 Slot 3



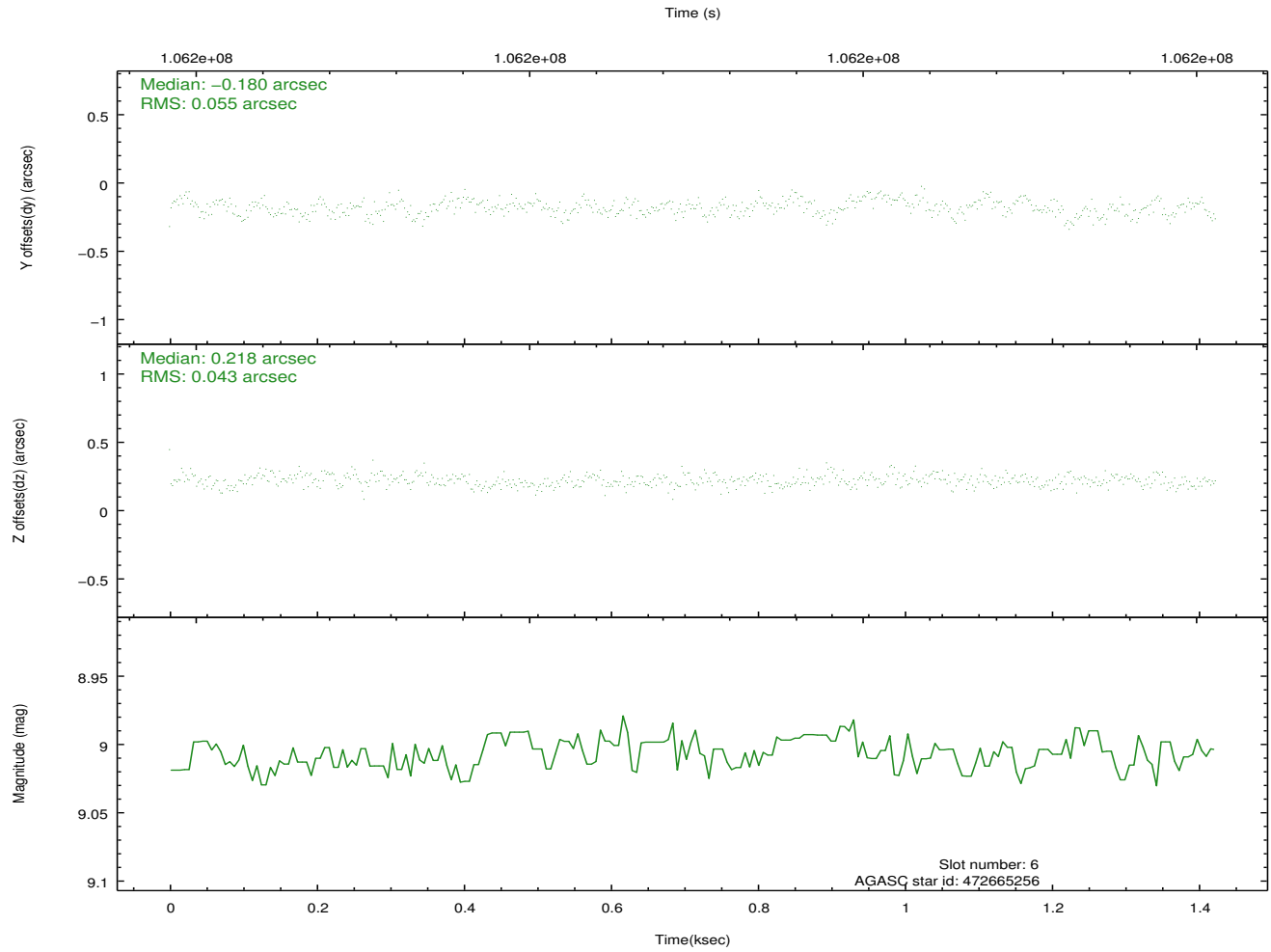
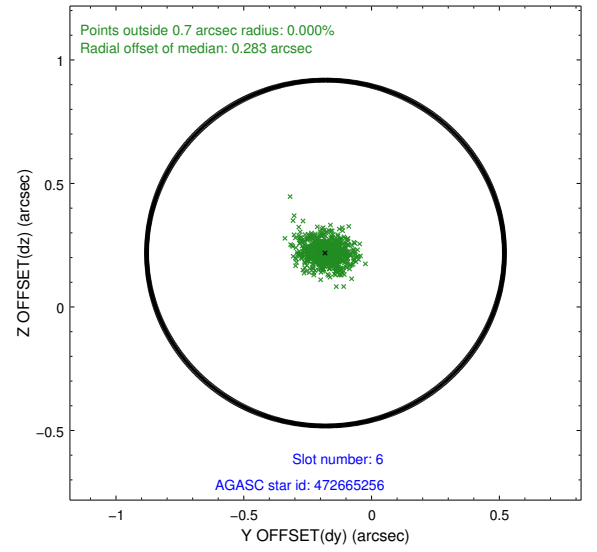
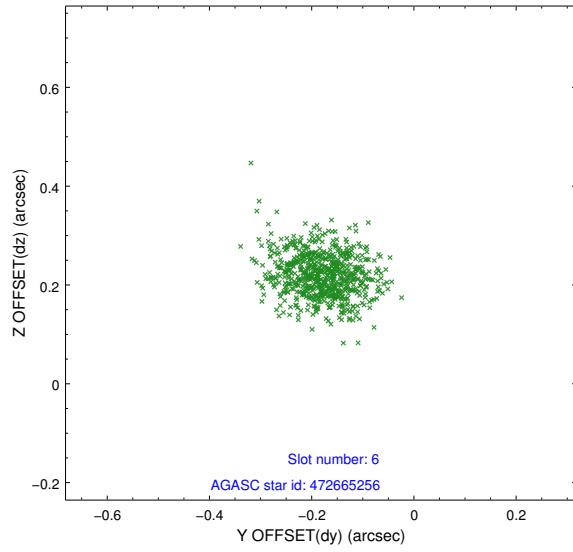
## 2.4.2 Slot 4



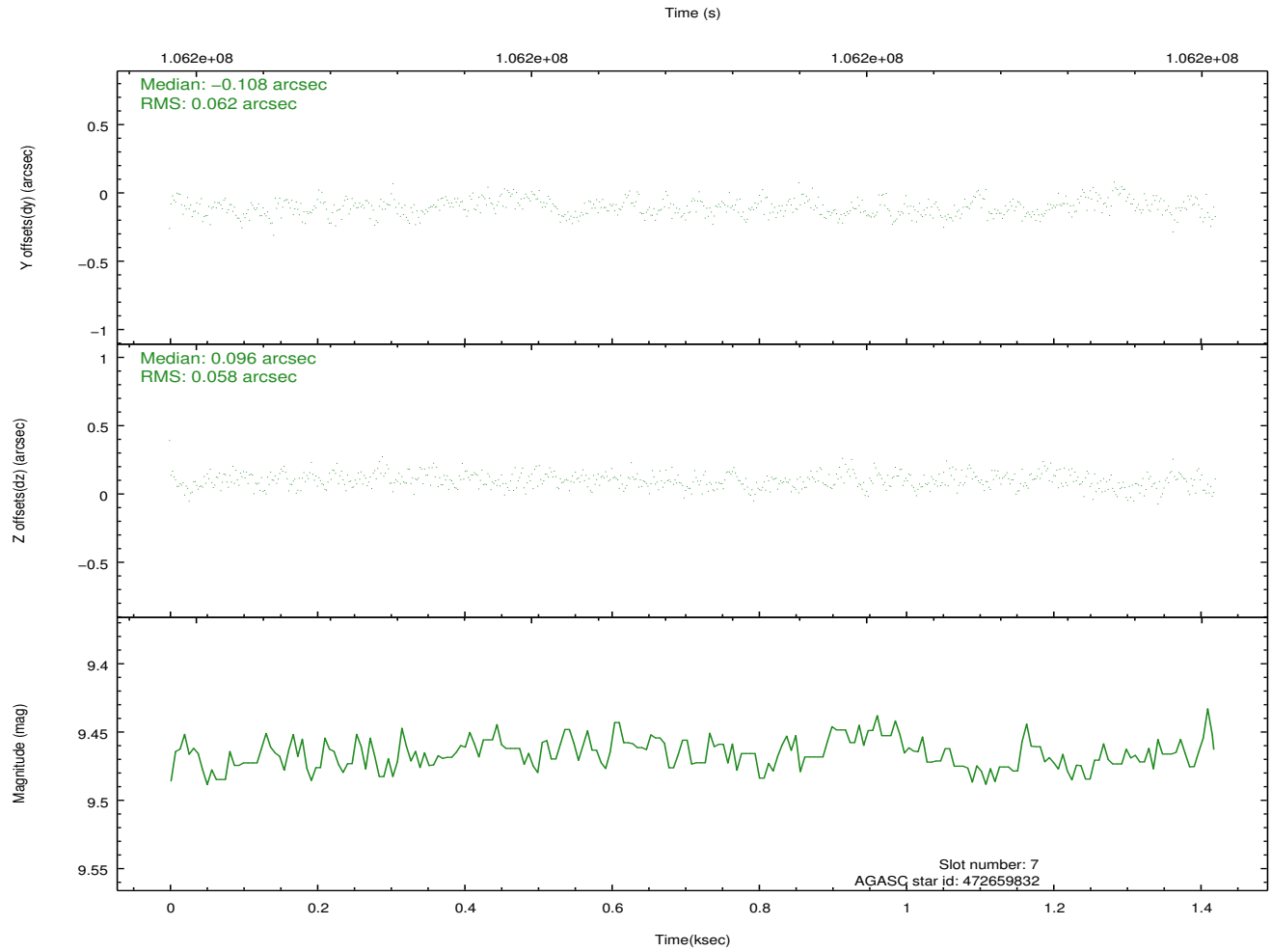
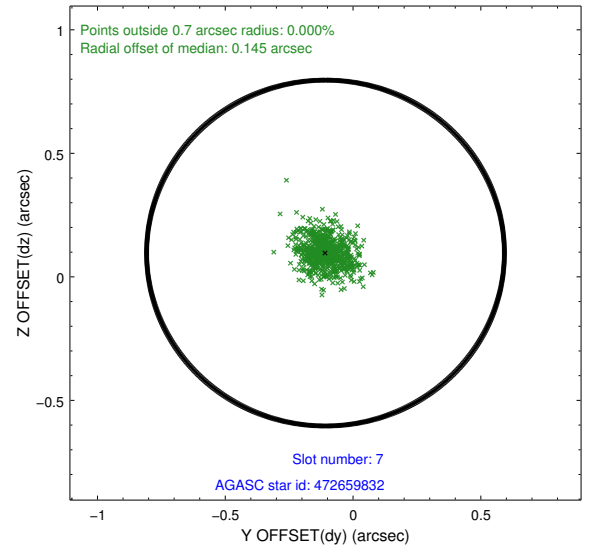
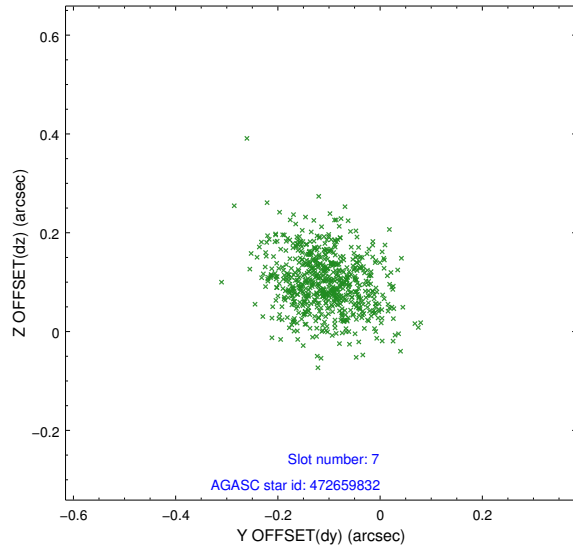
### 2.4.3 Slot 5



## 2.4.4 Slot 6

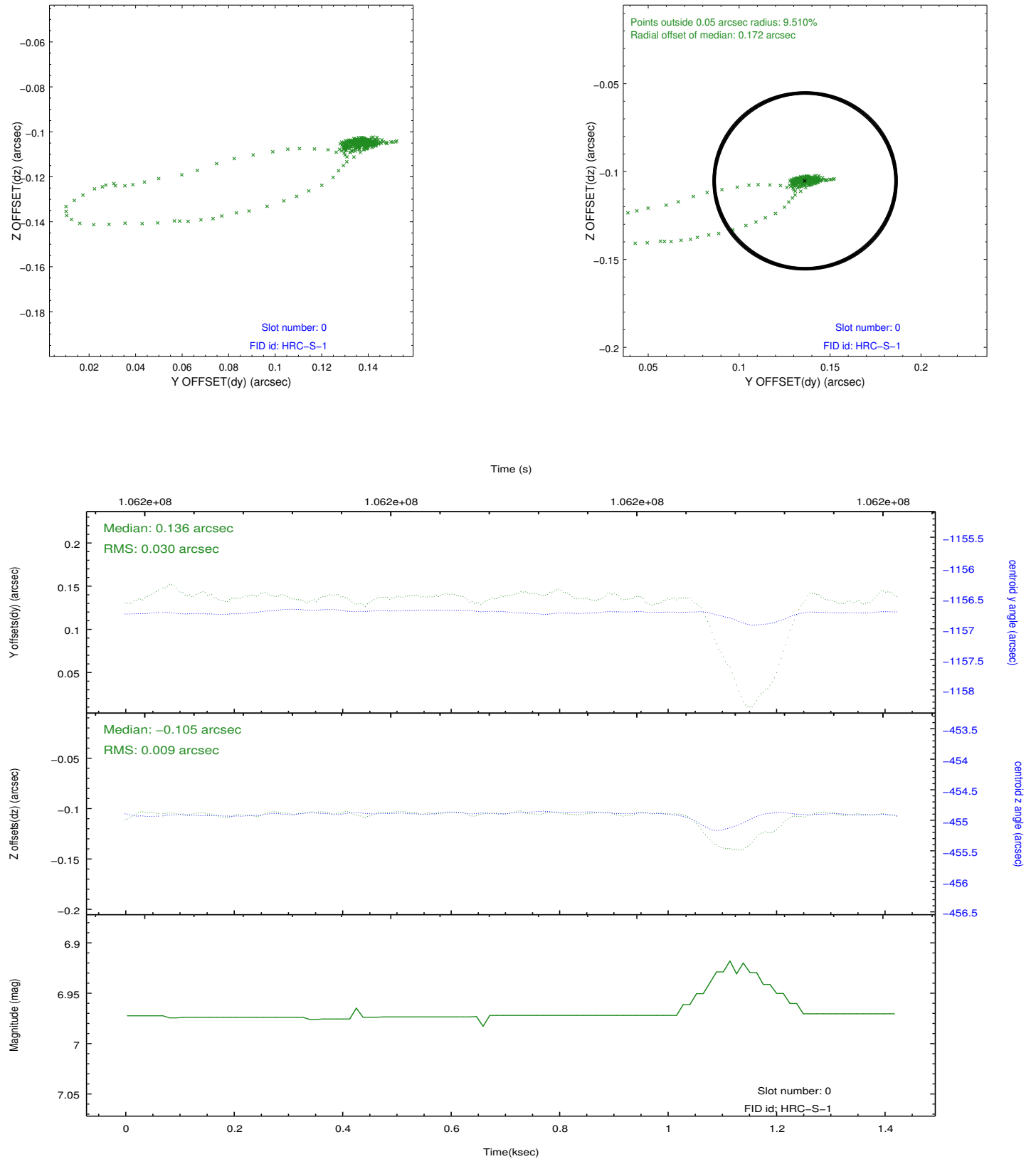


## 2.4.5 Slot 7

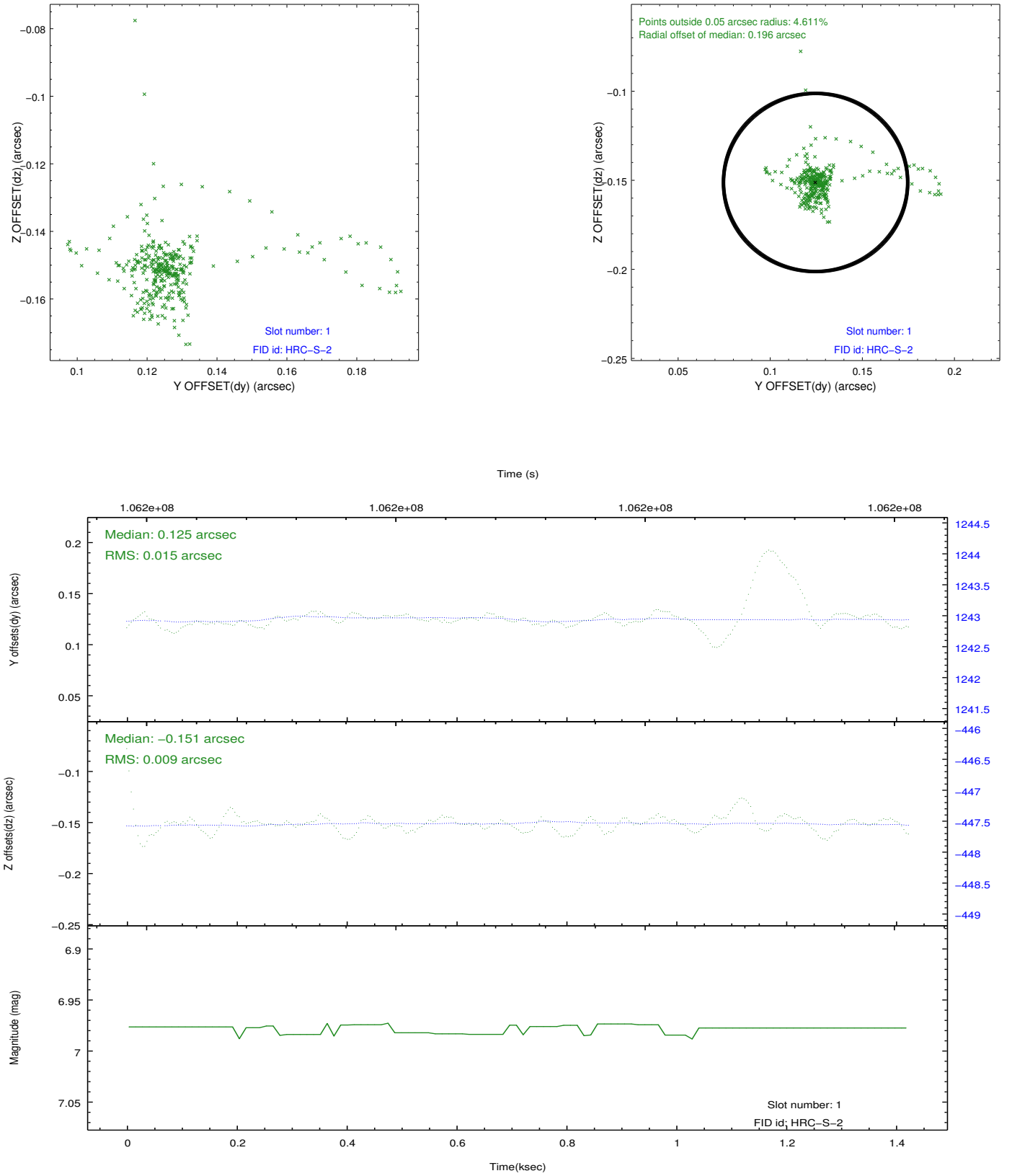


## 2.5 FID Slots

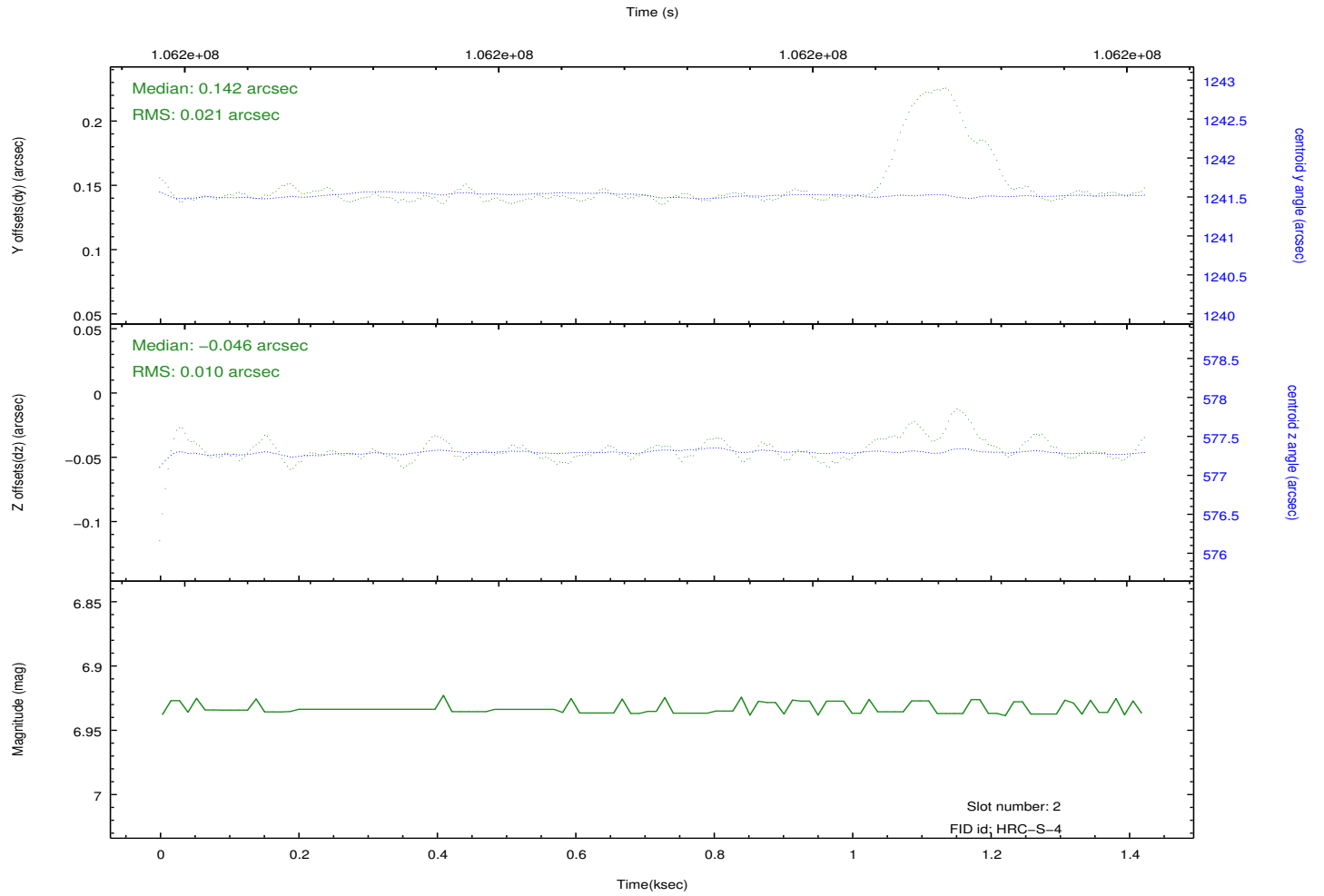
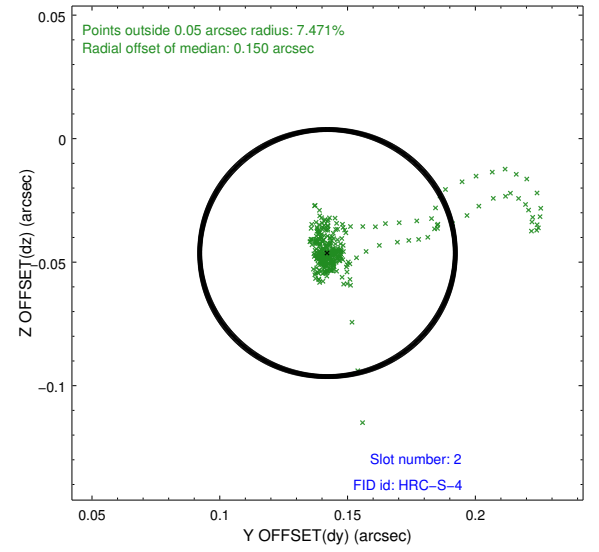
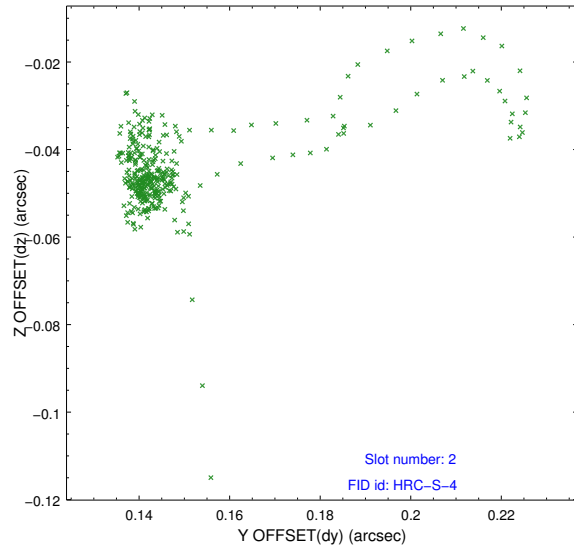
### 2.5.1 Slot 0



## 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)	2012.09.21
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.4

### A.2 Comments

Charge time for this ObsId remains at previous value of 1.4 ks although with the current processing the charge time would have been 1.37 ksec.