

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 2371 - L2 Version 5  
Chandra X-Ray Center

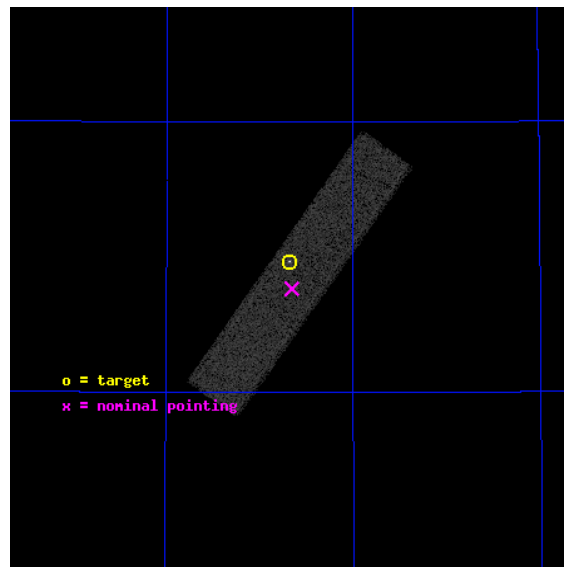
L2 Processing Date : Sep 4 2012

## 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

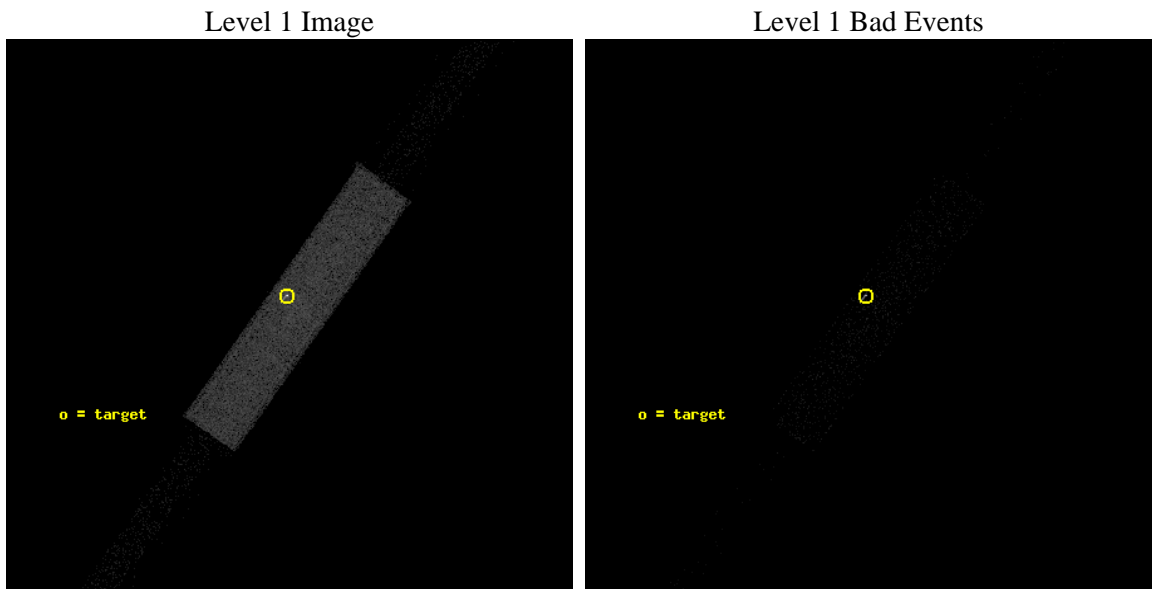
seq_num	290117	Sequence number
obs_id	2371	Observation id
title	HRC-I CALIBRATION OBSERVATIONS OF ARLAC	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ARLAC,HRC-S,AO2	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.16366738394	Nominal RA [deg]
dec_nom	45.692045767651	Nominal Dec [deg]
roll_nom	305.18540703024	Nominal Roll [deg]
revision	5	Processing version of data
ontime	1142.1062937081	[s]
livetime	1136.5822541803	Ontime multiplied by DTCOR
l2events	37299	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	1142.1062937081	[s]
caldbver	4.5.1.1	&#160	l1events	62280	Number of level 1 events
date	2012-09-05T01:20:47	Date and time of file creation			
revision	4	Processing version of data			

### 2.1.3 Events

Level 1 Events

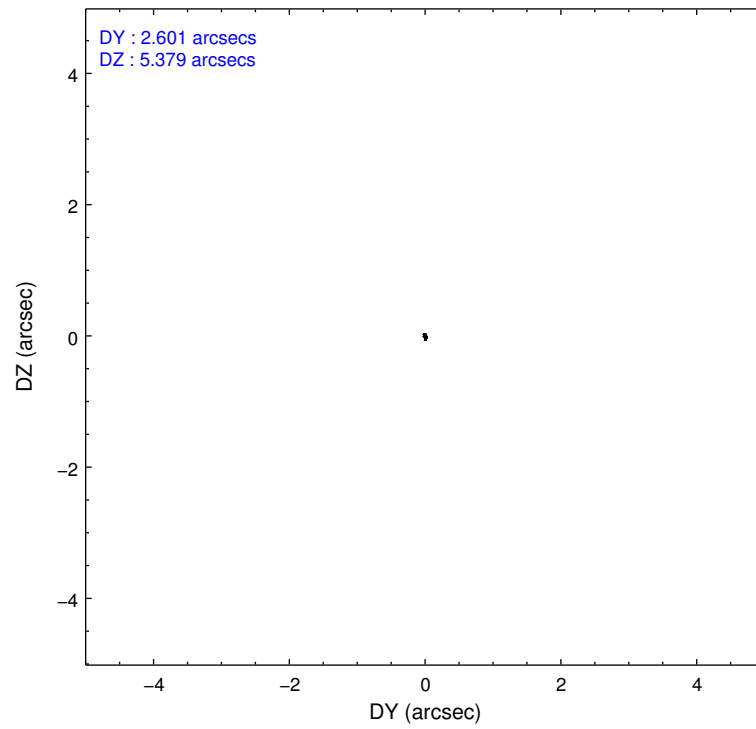
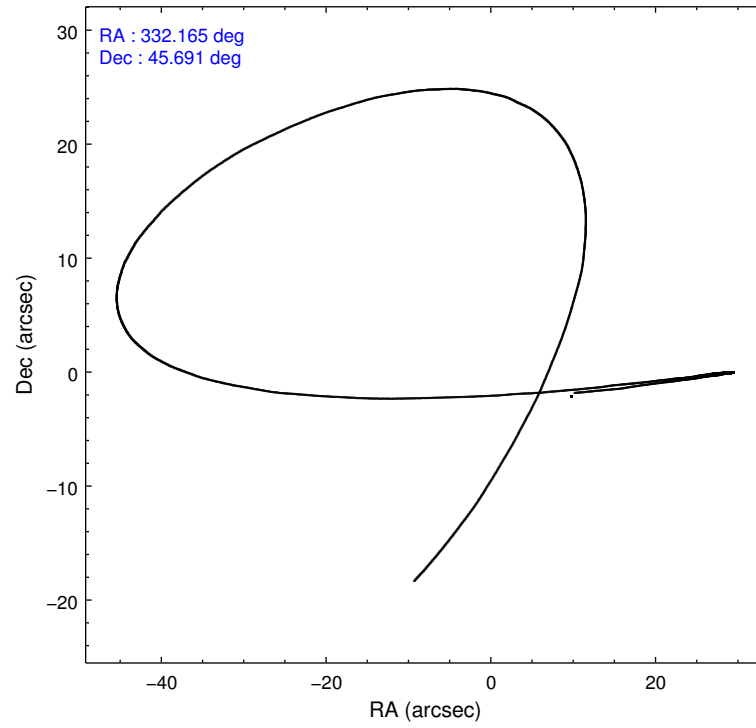
	<b>segment 1</b>	<b>segment 2</b>	<b>segment 3</b>
level 1 events	953	60347	980
rejected events	953	13518	980
rejected %	100%	22%	100%

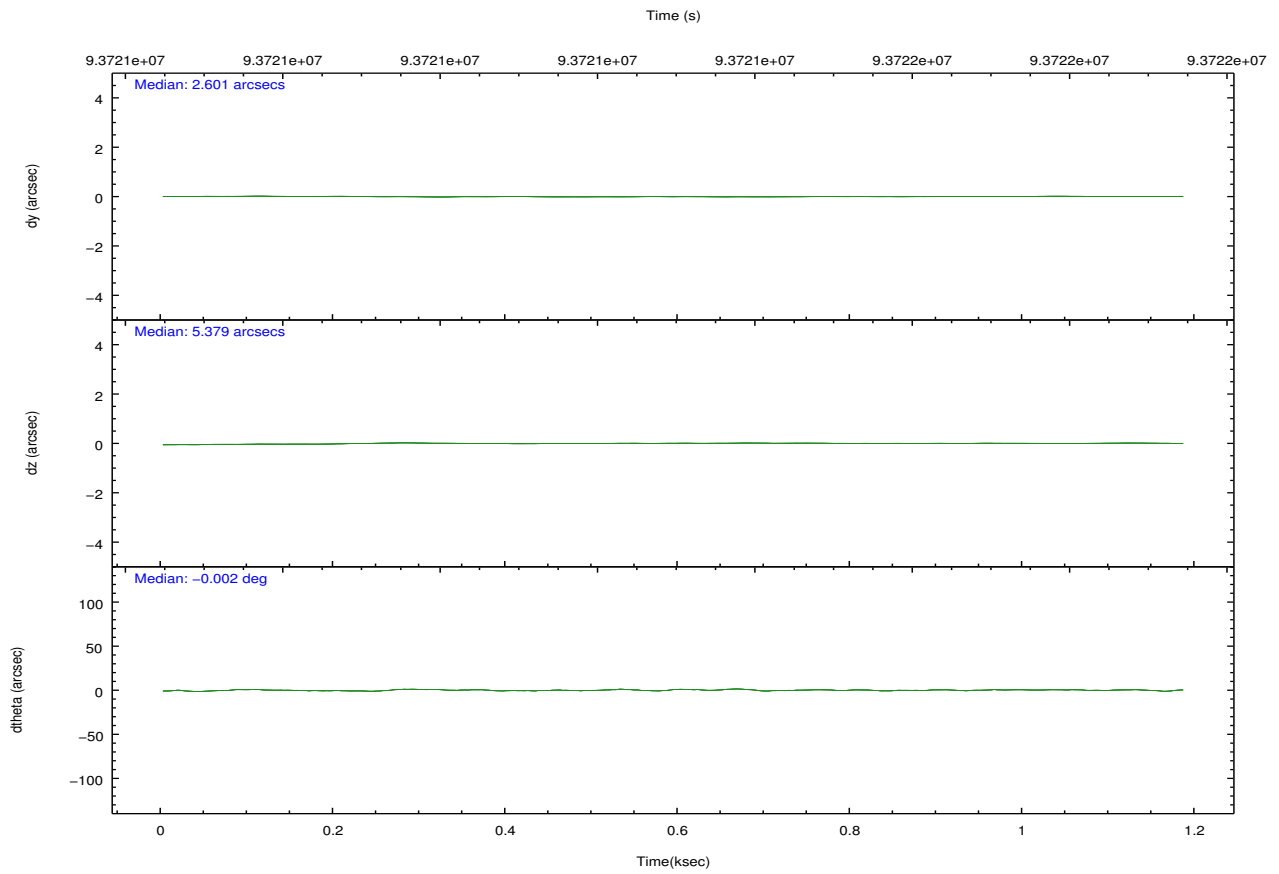
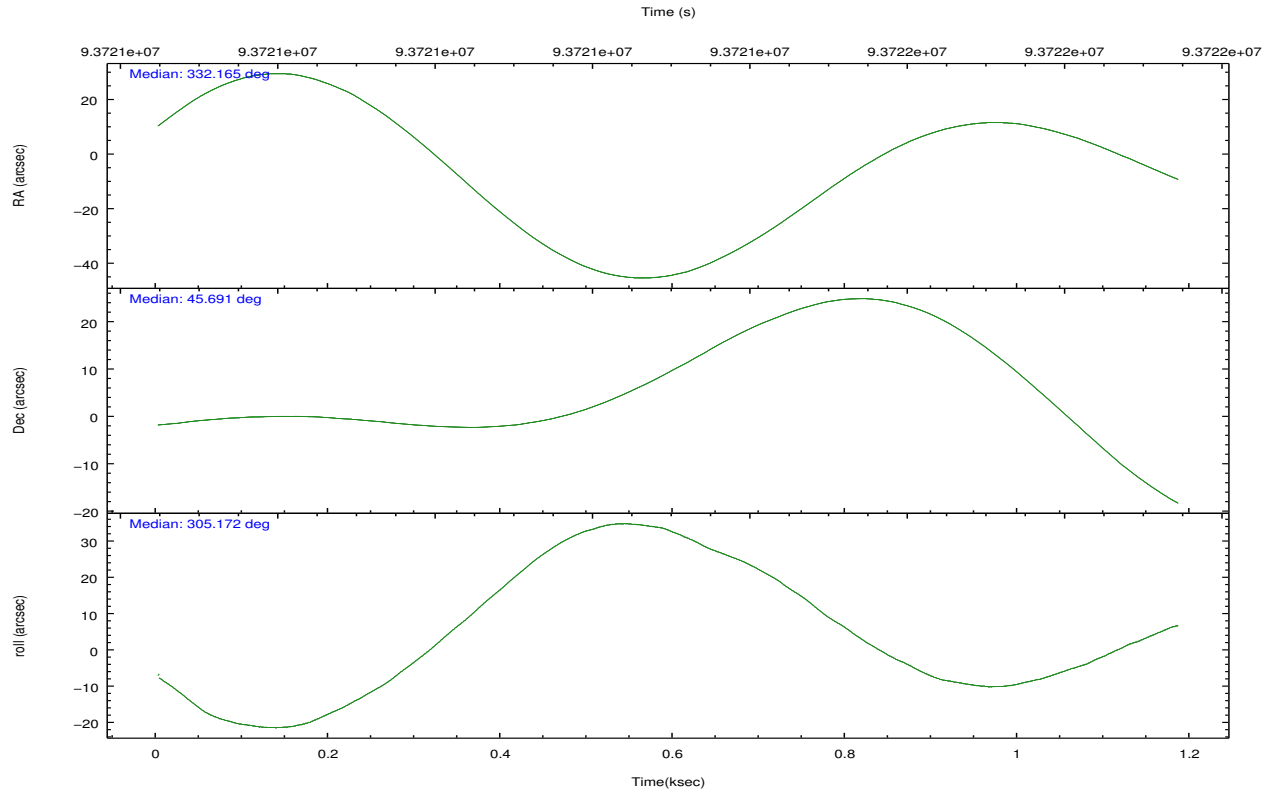
## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	HRC	HRC
Detector	HRC-S	HRC-S
Grating	NONE	NONE
Data mode	OBSERVING	OBSERVING
Observation mode	POINTING	POINTING
[deg] Pointing RA	332.124130	332.1636673839398
[deg] Pointing Dec	45.702662	45.69204576765127
[deg] Pointing Roll	305.146380	305.1854070302435
[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)	93720892.184000	93720515.901489
Observation start date	2000-12-20T17:33:48	2000-12-20T17:28:35
[s] Observation end time (MET)	93721892.184000	93722025.726547
Observation end date	2000-12-20T17:50:28	2000-12-20T17:53:45

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

## 2.3 Aspect





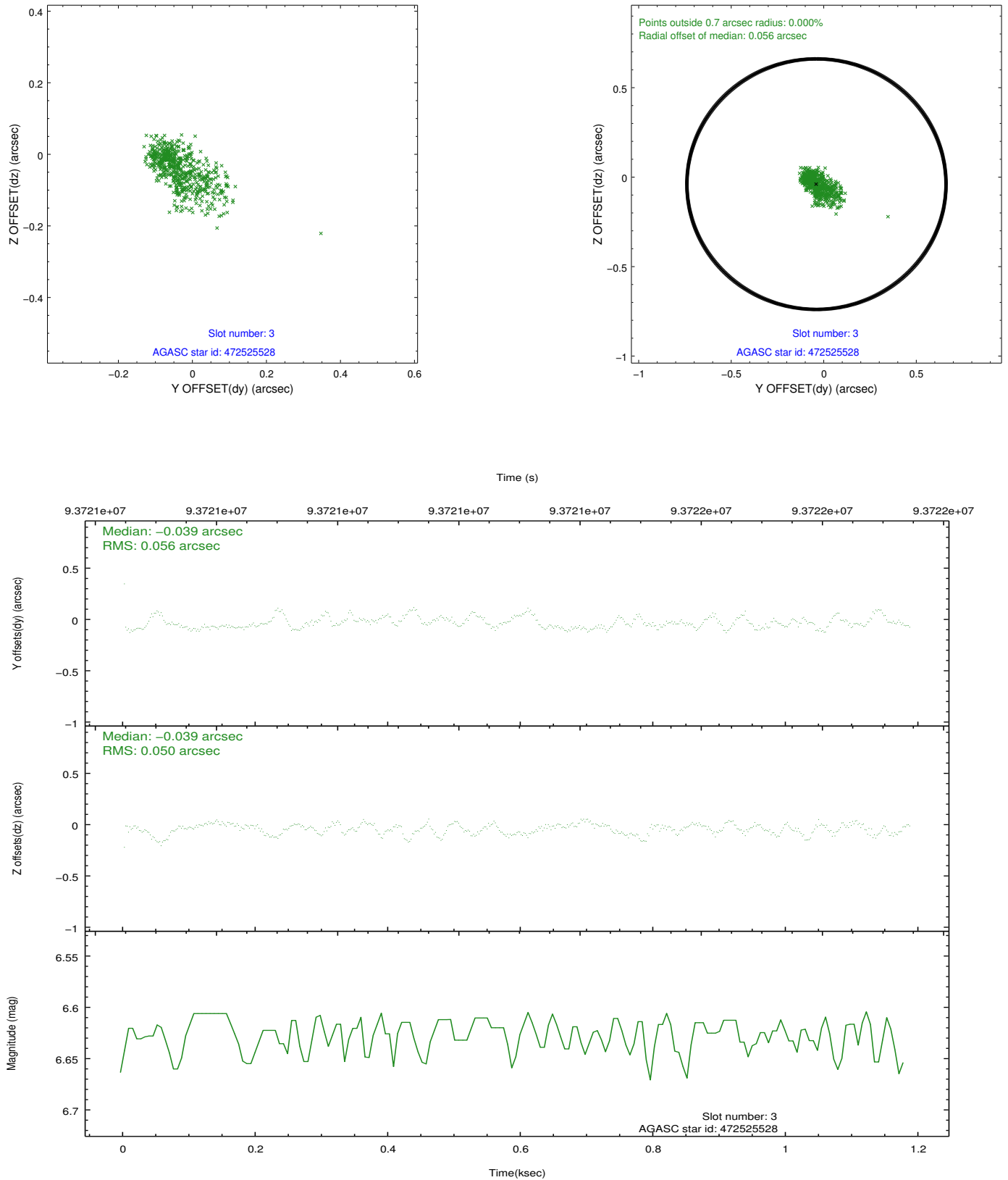
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-S-1	6.97	289	0.132	-0.157	0.006	0.012	0.000000	0.000000	-1156.65	-453.88
1	FID	HRC-S-2	6.97	289	0.130	-0.102	0.005	0.009	0.000000	0.000000	1239.03	-448.09
2	FID	HRC-S-3	7.00	289	0.127	-0.043	0.008	0.012	0.000000	0.000000	-1155.06	574.21
3	GUIDE	472525528	6.63	579	-0.039	-0.039	0.074	0.136	331.551102	45.248694	494.89	-2129.85
4	GUIDE	472523760	8.23	579	-0.033	-0.205	0.058	0.098	331.645363	45.403260	181.35	-1616.28
5	GUIDE	472659832	9.48	579	-0.057	-0.008	0.094	0.143	332.780399	46.098139	-228.31	2155.67
6	GUIDE	472655152	9.43	579	-0.030	0.117	0.084	0.149	332.504239	45.862991	72.57	1112.08
7	GUIDE	472646552	9.62	575	0.158	0.160	0.118	0.189	333.120915	45.571877	1816.56	1789.74

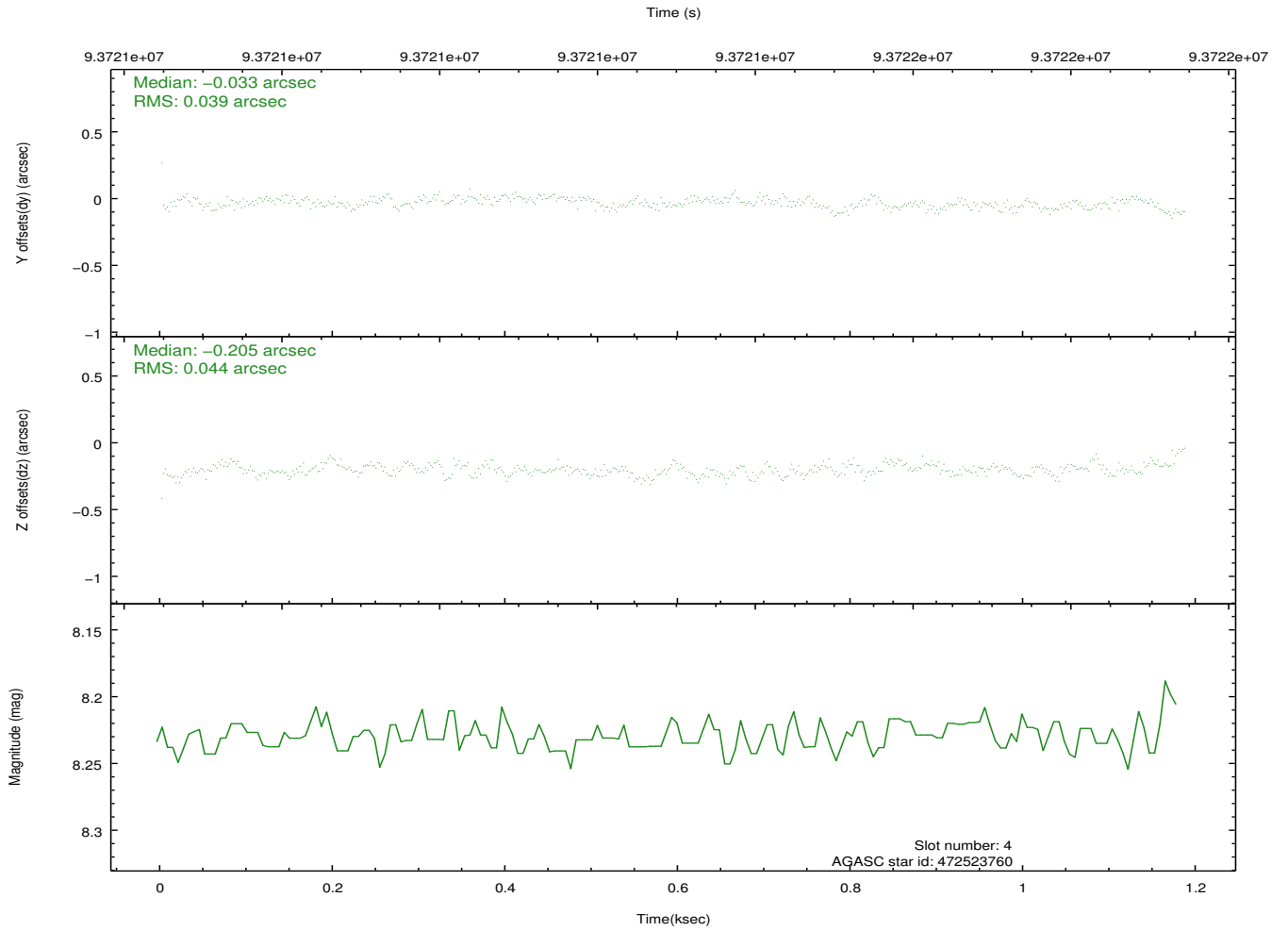
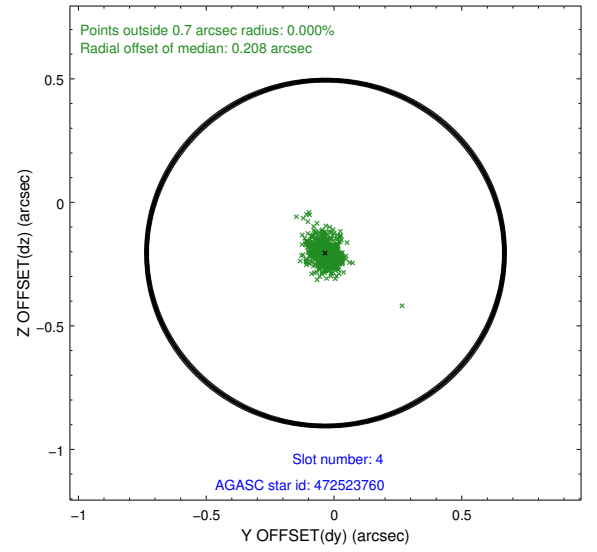
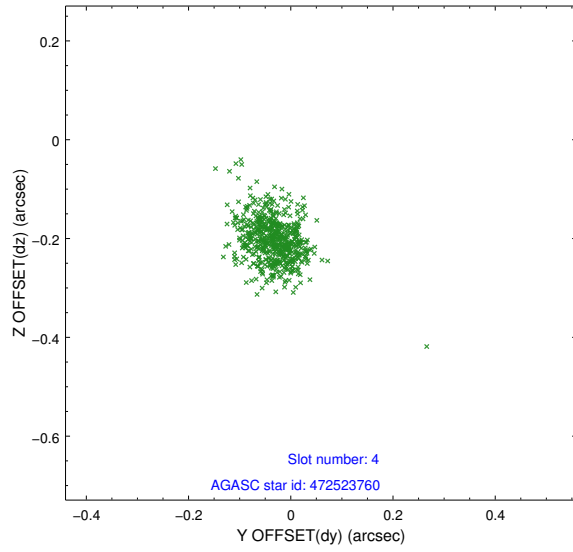


## 2.4 Star Slots

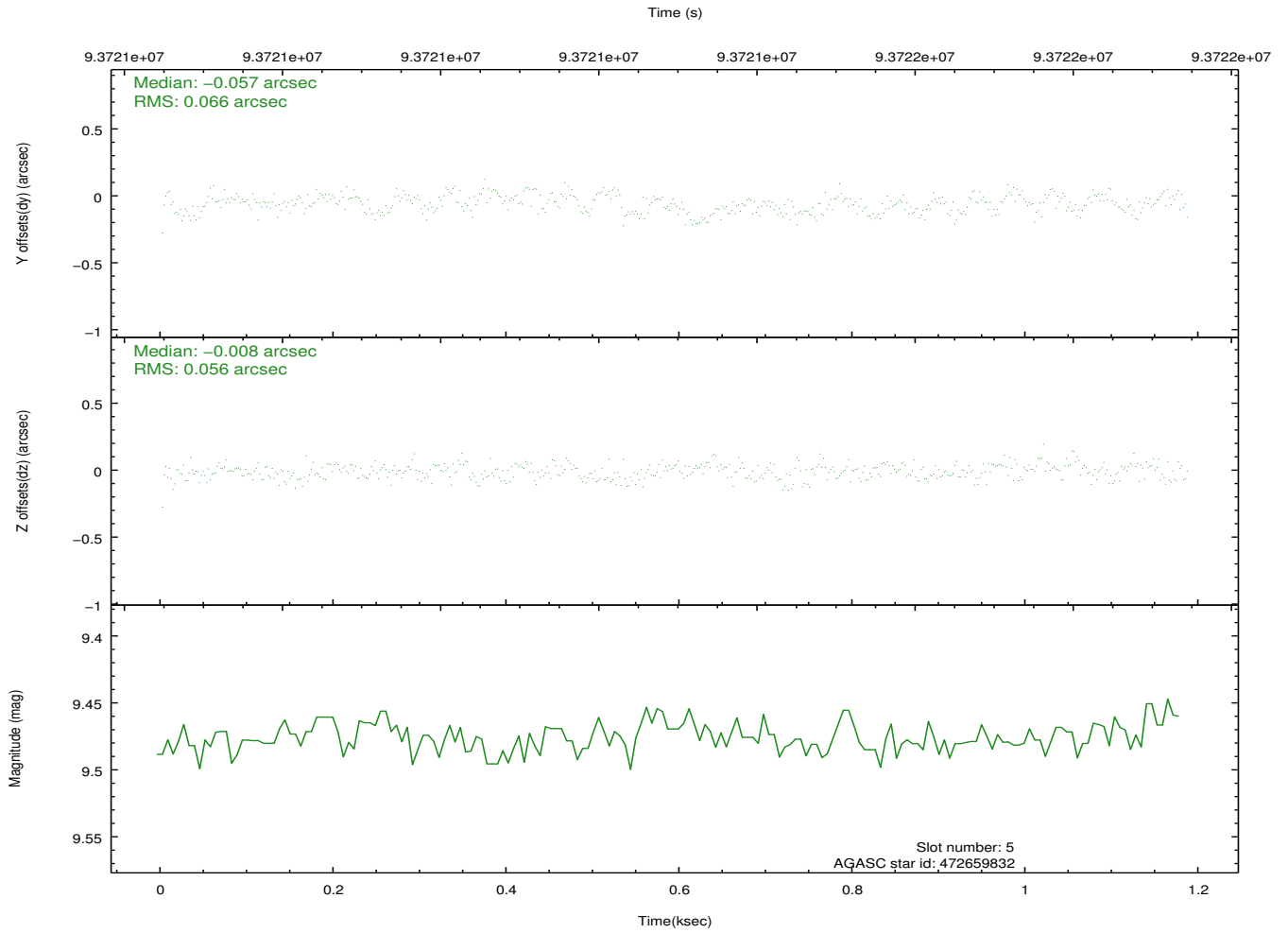
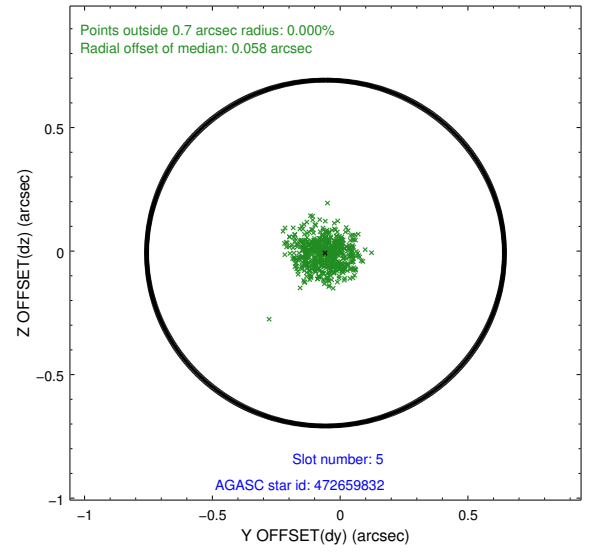
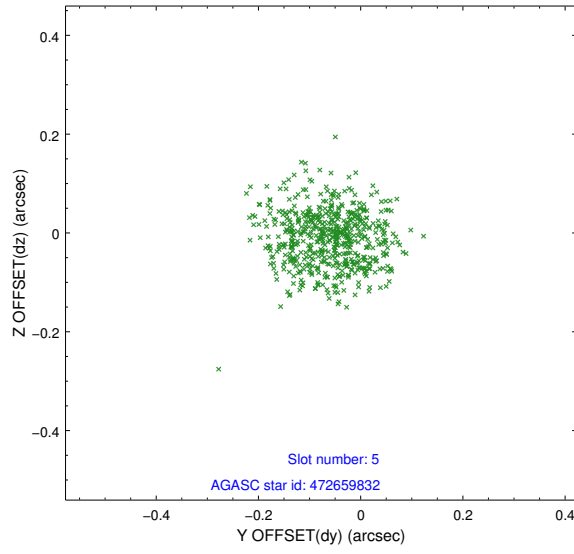
### 2.4.1 Slot 3



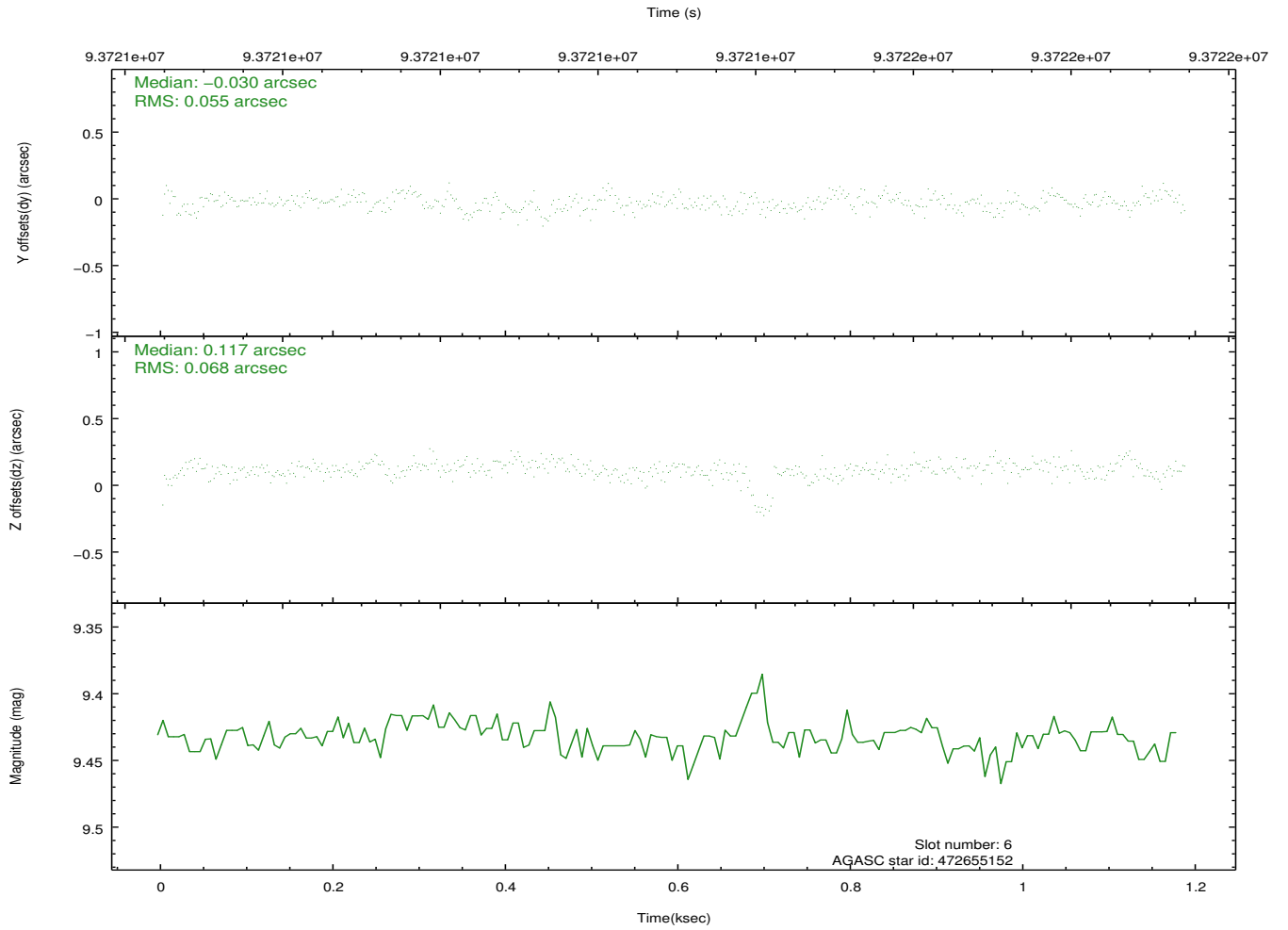
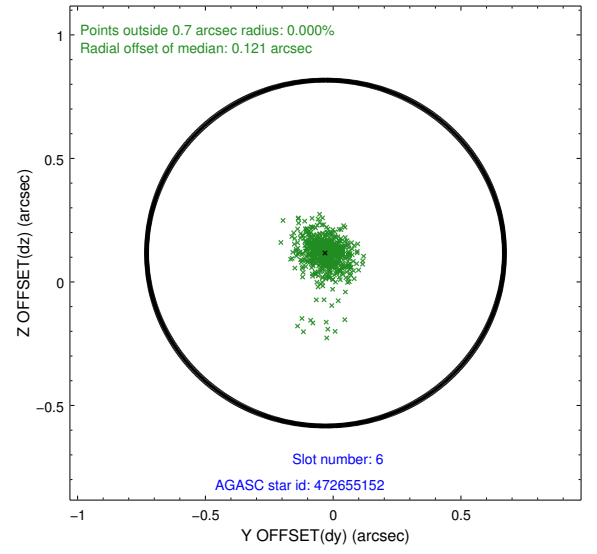
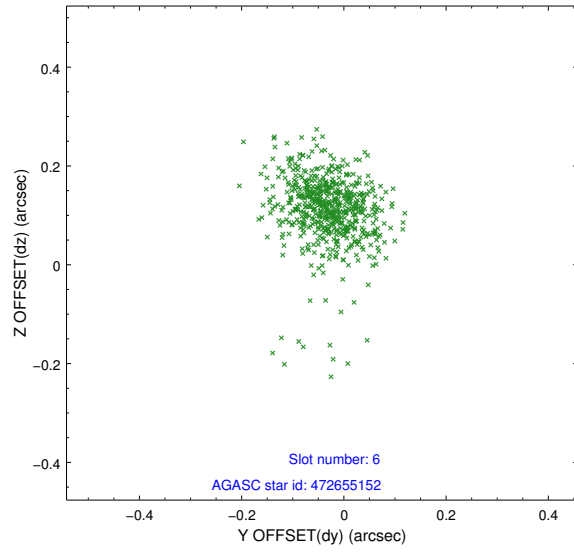
## 2.4.2 Slot 4



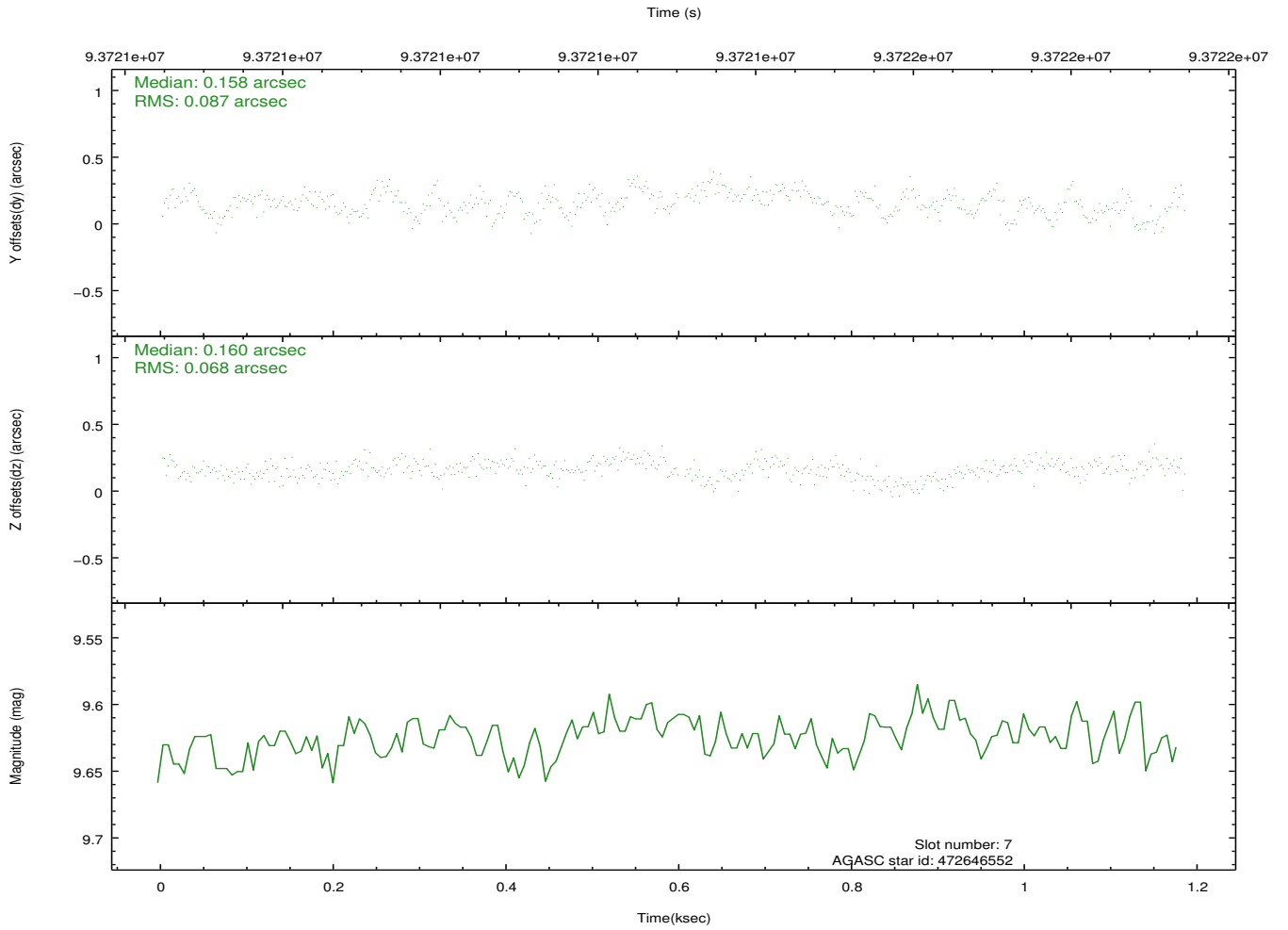
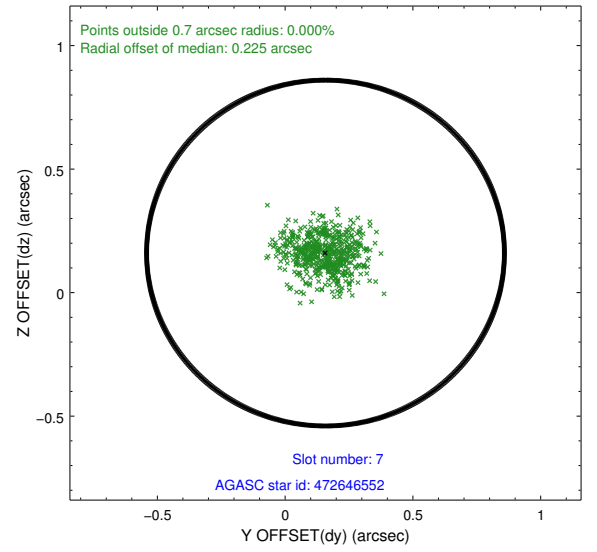
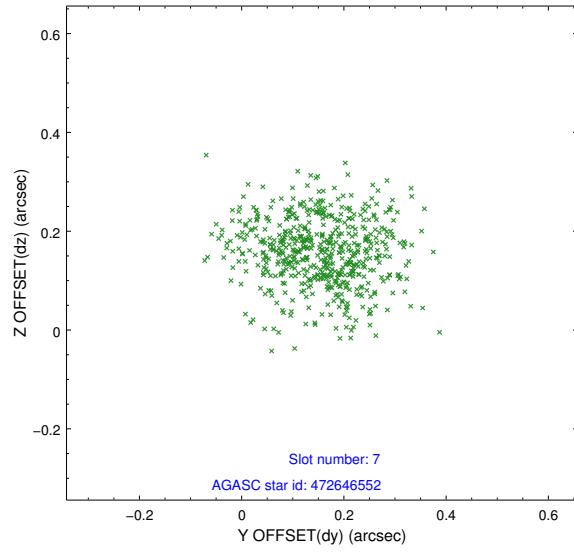
### 2.4.3 Slot 5



## 2.4.4 Slot 6

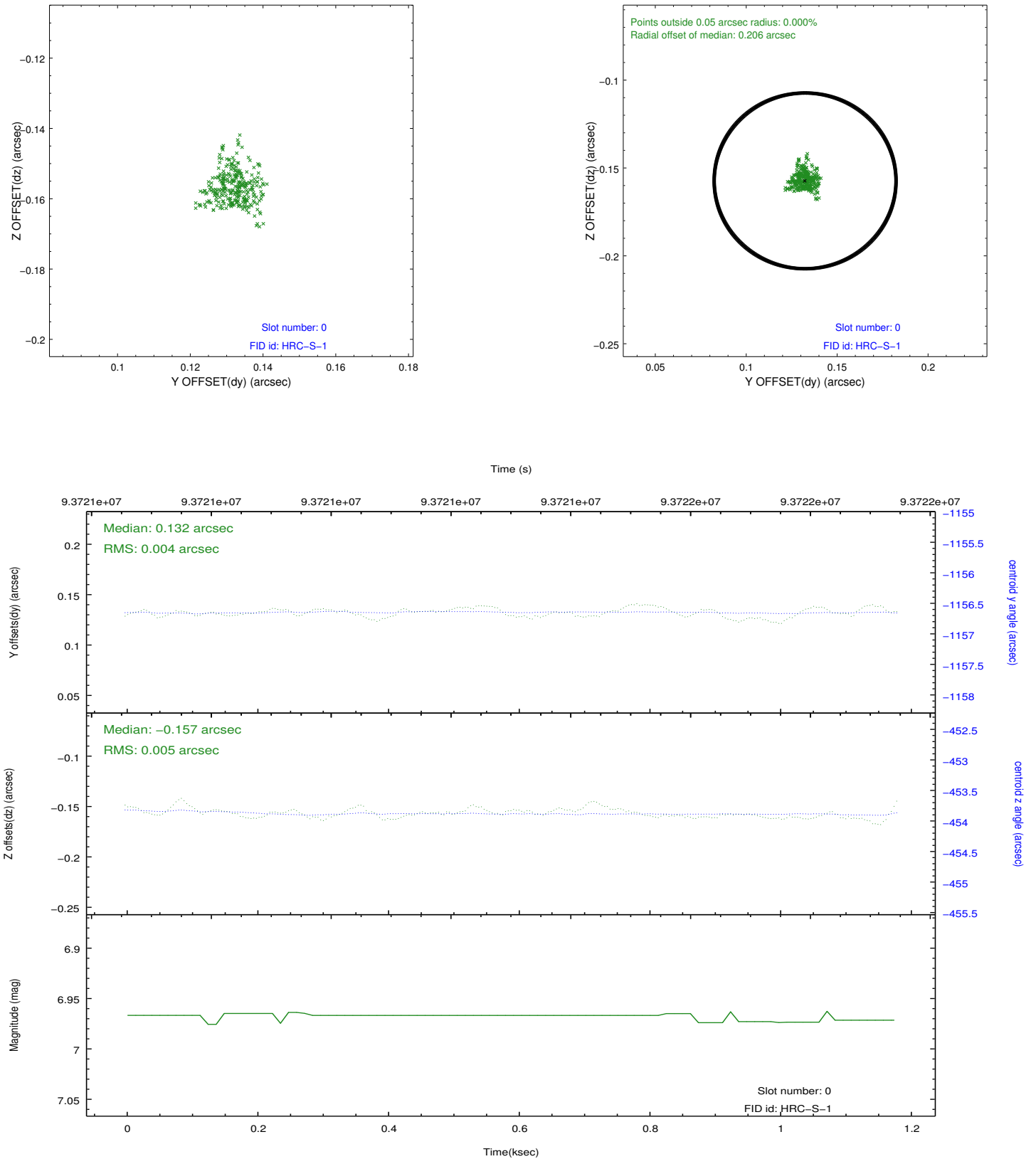


## 2.4.5 Slot 7

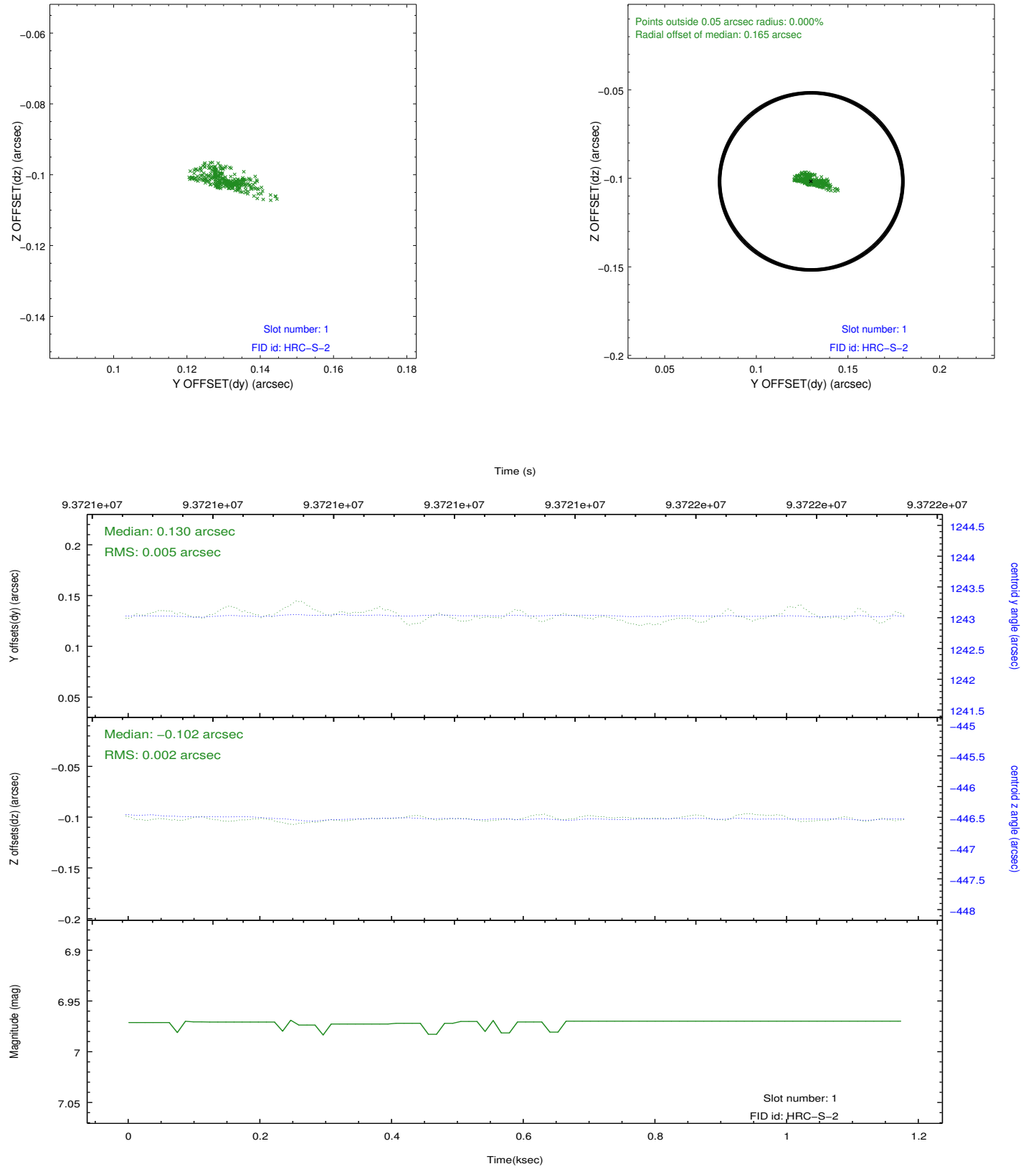


## 2.5 FID Slots

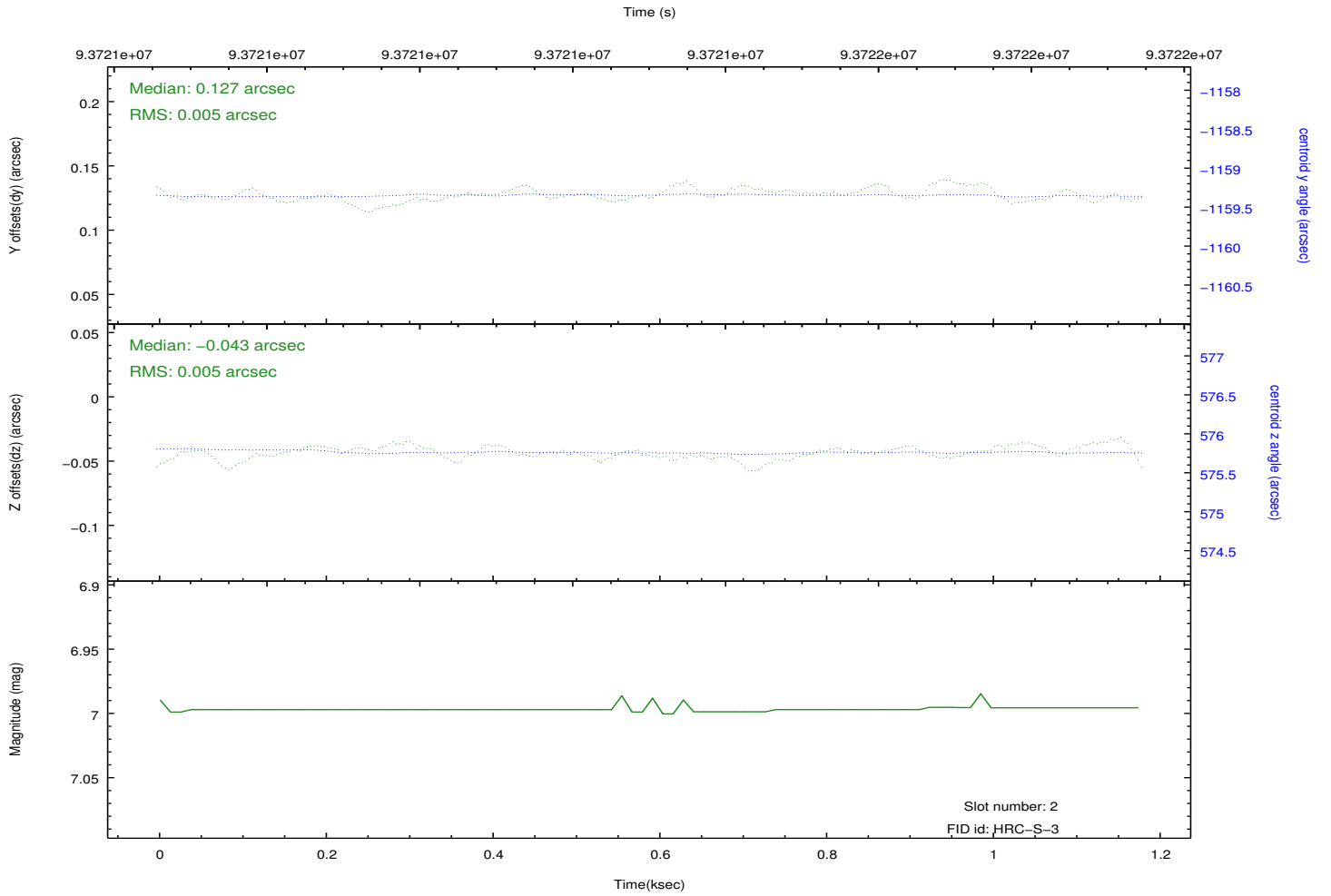
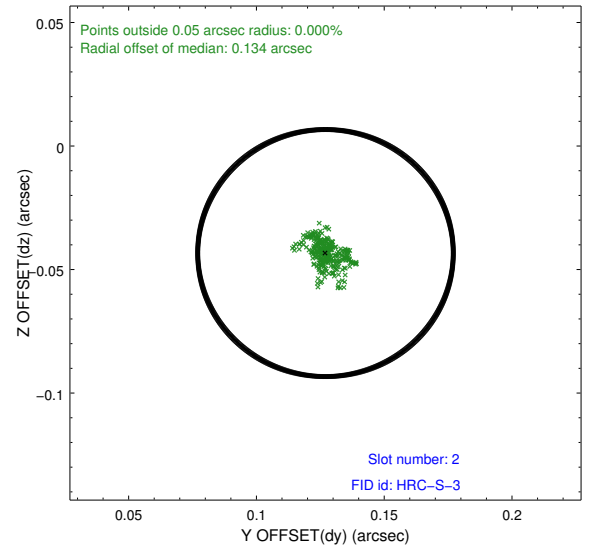
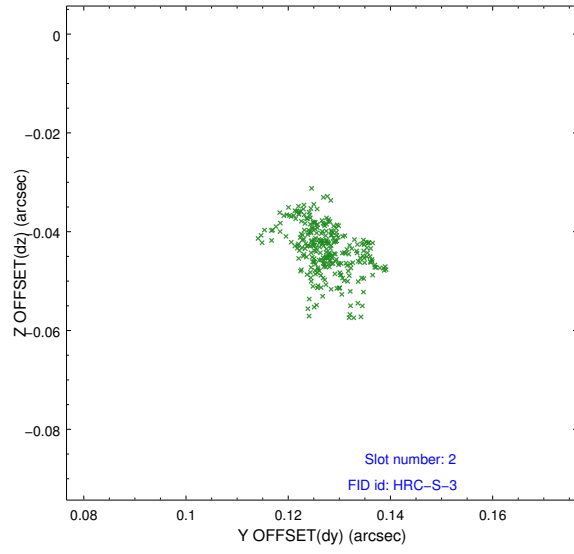
### 2.5.1 Slot 0



## 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	1.184

## A.2 Comments

Charge time for this ObsId remains at previous value of 1.184 ks, although with the current processing the charge time would have been 1.14 ksec.