

# V&V Reference Report

## L2 ASCDS Version : 10.2.4

Observation 16416 - L2 Version 1  
Chandra X-Ray Center

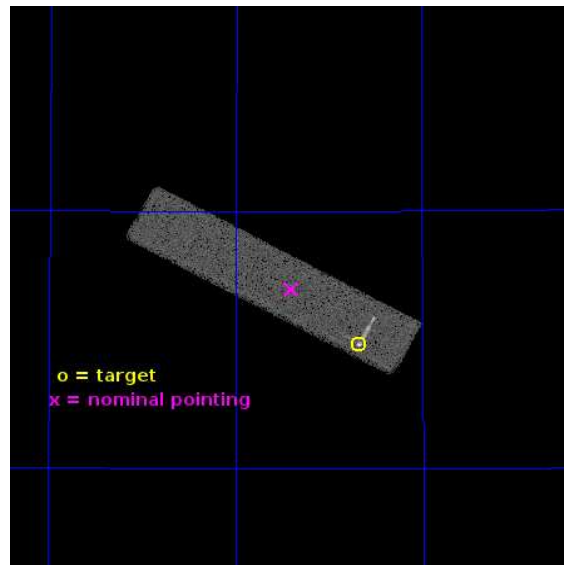
L2 Processing Date : Sep 17 2014

## 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

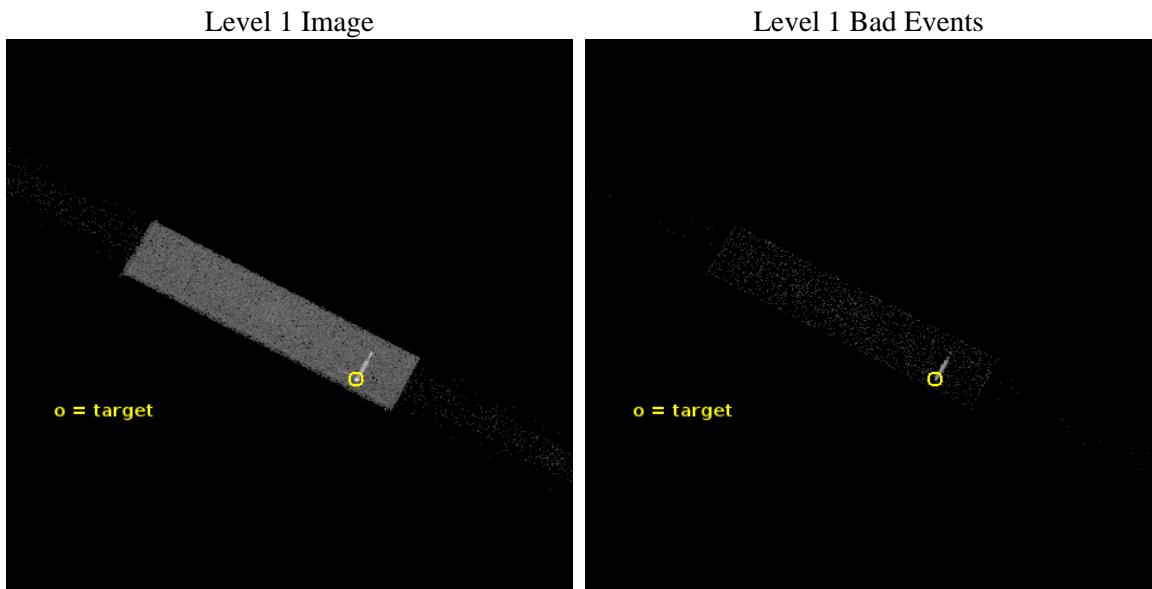
seq_num	291188	Sequence number
obs_id	16416	Observation id
title	AO-15 Calibration Observations to Monitor the Spatial Variations in the HRC-S Gain	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.35075646999	Nominal RA [deg]
dec_nom	45.848711878538	Nominal Dec [deg]
roll_nom	208.17271720963	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1155.1750642061	[s]
livetime	1148.5974629628	Ontime multiplied by DTCOR
l2events	49118	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	10.2.4	Processing system revision	ontime	1155.1750642061	[s]
caldsver	4.6.3	&#160	l1events	78990	Number of level 1 events
date	2014-09-17T03:53:10	Date and time of file creation			
revision	1	Processing version of data			

### 2.1.3 Events

Level 1 Events

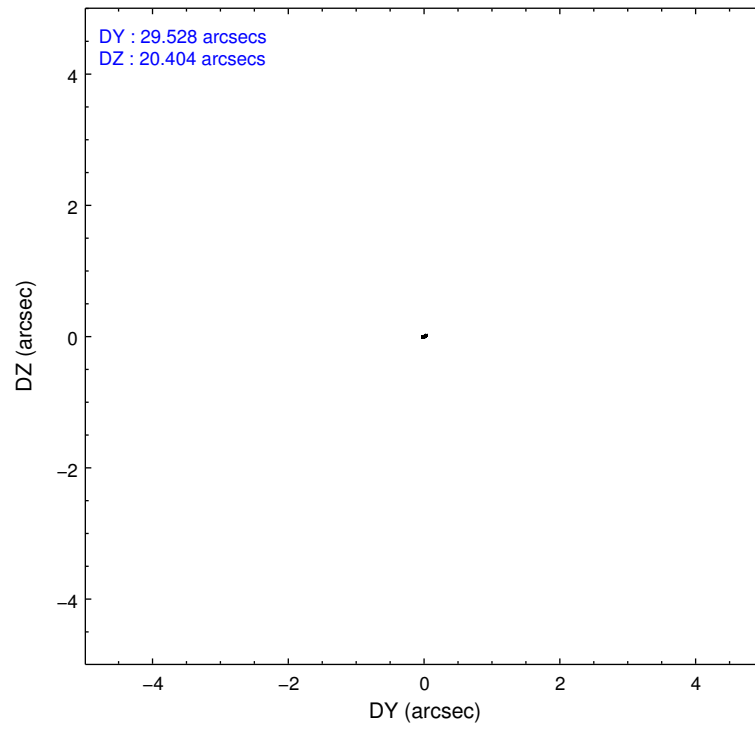
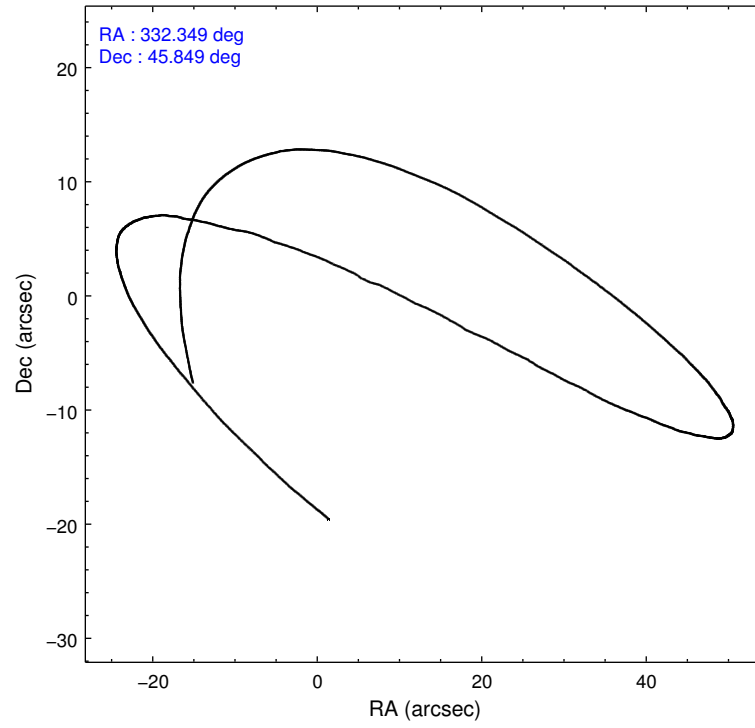
	segment 1	segment 2	segment 3
level 1 events	583	77771	636
rejected events	583	19318	636
rejected %	100%	24%	100%

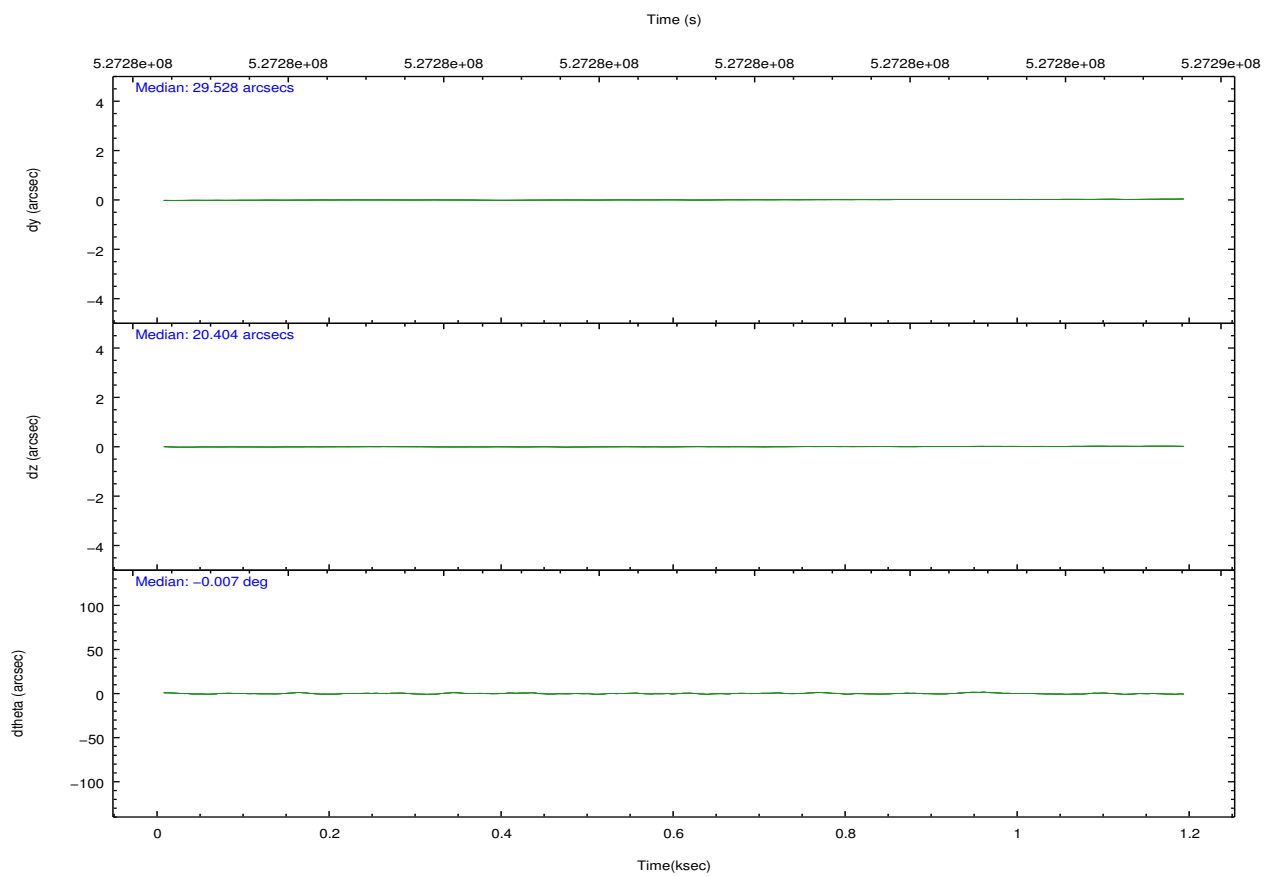
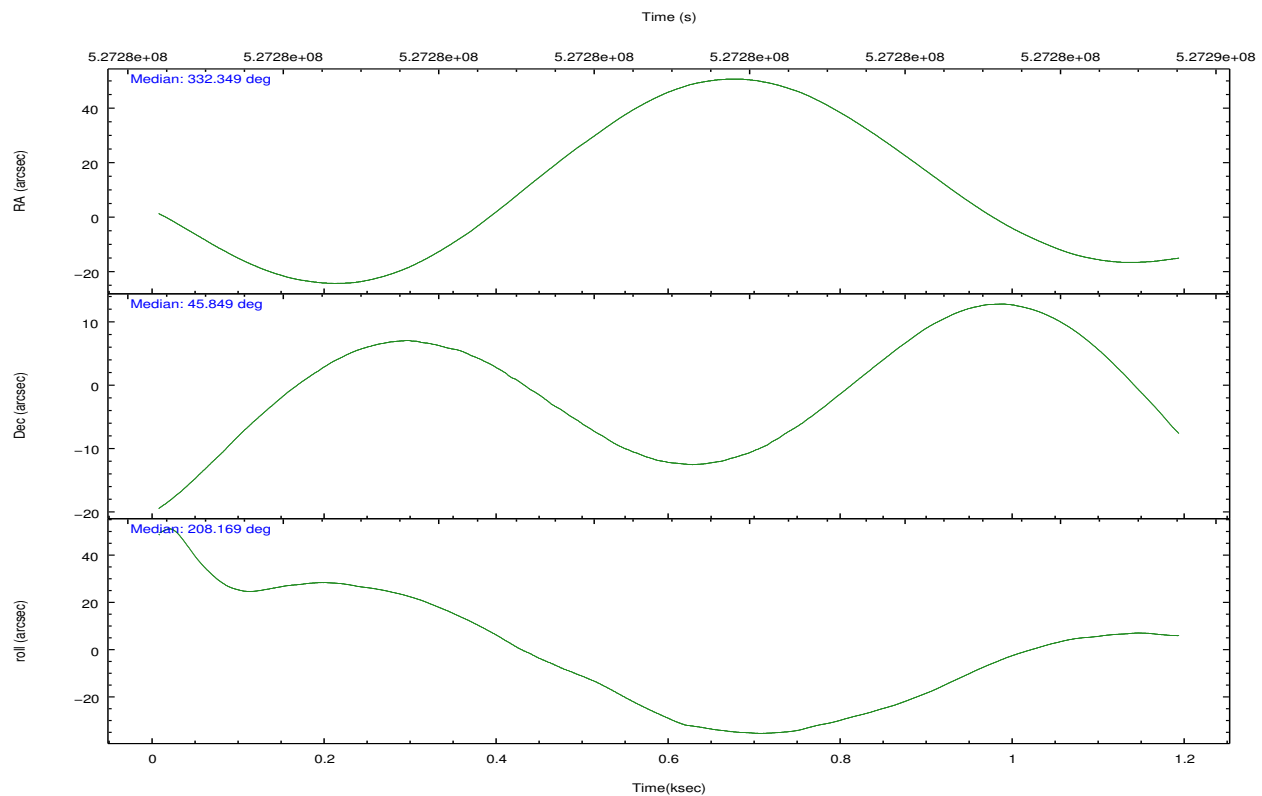
## 2.2 Compared Parameters

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	332.372069	332.3507564699942
[deg] Pointing Dec	45.873290	45.84871187853807
[deg] Pointing Roll	208.089831	208.1727172096309
[mm] SIM focus pos	-1.533336	-1.526339935833849
[mm] SIM defocus	7.710433287538843e-07	0.006996703570447904
[mm] SIM translation stage pos	250.455976	250.466033080201
[mm] SIM translation stage offset	0	-0.01005468664627074
[s] Observation start time (MET)	527284098.184000	527283721.69153
Observation start date	2014-09-16T19:47:11	2014-09-16T19:42:01
[s] Observation end time (MET)	527285098.184000	527285231.51661
Observation end date	2014-09-16T20:03:51	2014-09-16T20:07:11

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

## 2.3 Aspect





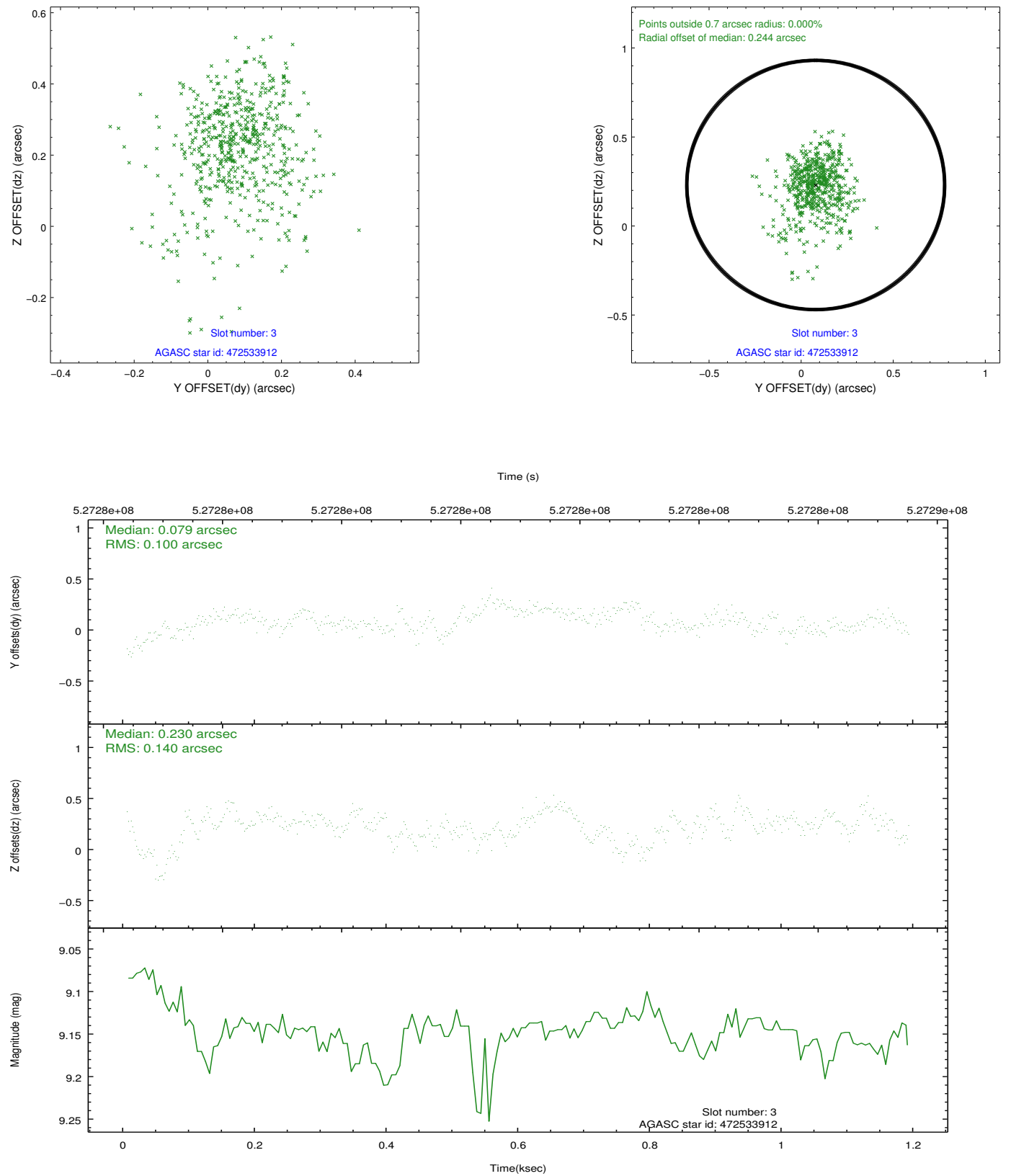
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-S-1	7.08	290	-0.032	-0.191	0.007	0.011	0.000000	0.000000	-1184.40	-469.56
1	FID	HRC-S-2	7.04	290	0.374	-0.135	0.004	0.009	0.000000	0.000000	1211.58	-463.63
2	FID	HRC-S-3	7.08	290	0.047	0.024	0.006	0.011	0.000000	0.000000	-1182.92	558.57
3	GUIDE	472533912	9.15	580	0.079	0.230	0.168	0.325	331.791136	46.368695	430.12	-2253.49
4	GUIDE	472655152	9.44	580	0.139	-0.308	0.151	0.243	332.504239	45.862991	-275.11	188.23
5	GUIDE	472665256	8.99	580	0.274	0.145	0.140	0.238	332.808125	46.195041	-1506.58	-508.68
6	GUIDE	472535576	7.87	580	-0.078	0.213	0.099	0.156	331.438373	46.291802	1329.74	-2431.62
7	GUIDE	472523760	8.24	579	-0.421	-0.250	0.098	0.167	331.645363	45.403260	2414.35	620.07

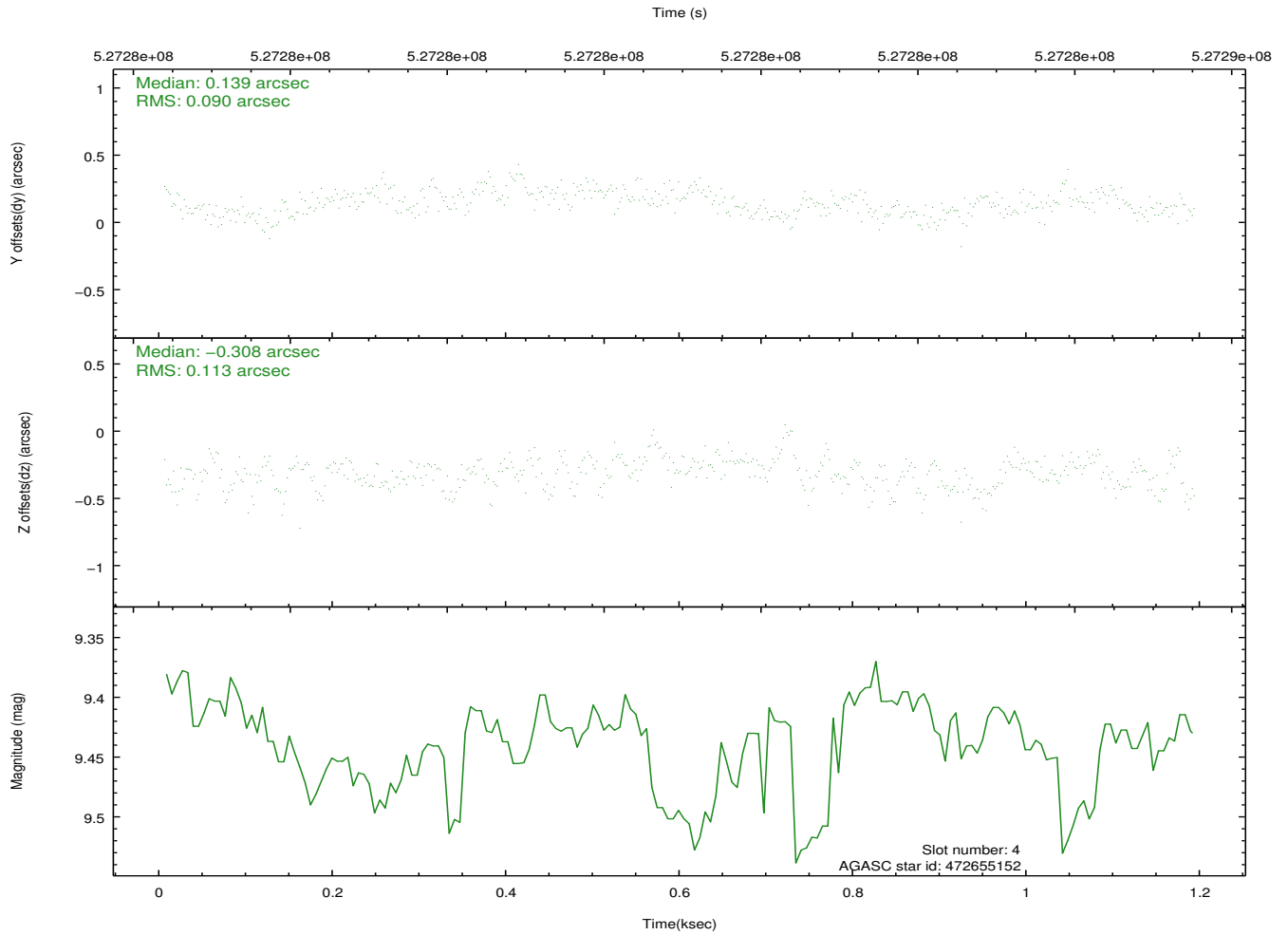
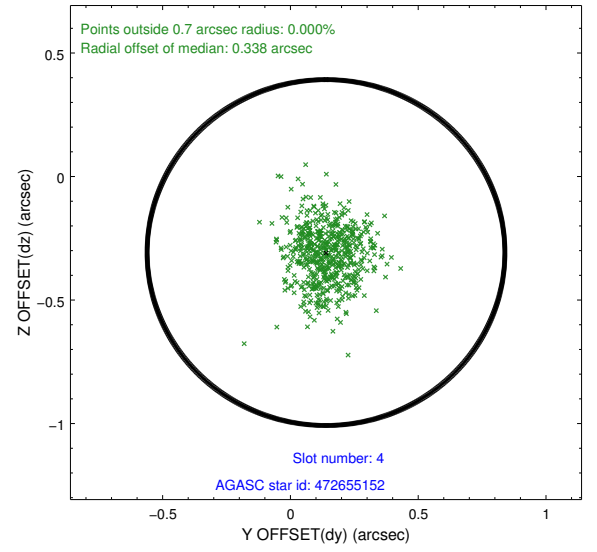
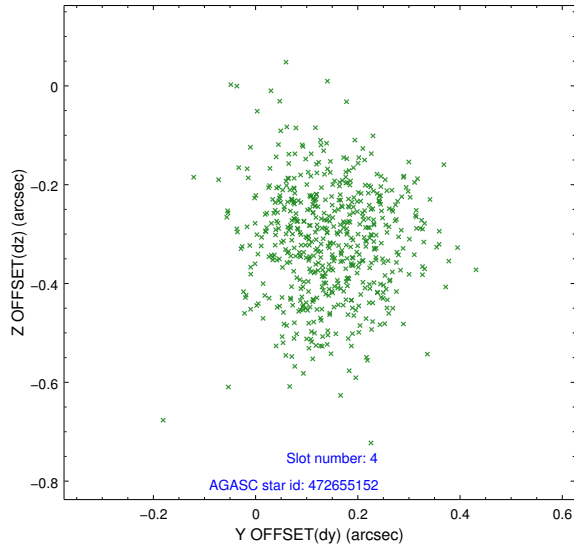


## 2.4 Star Slots

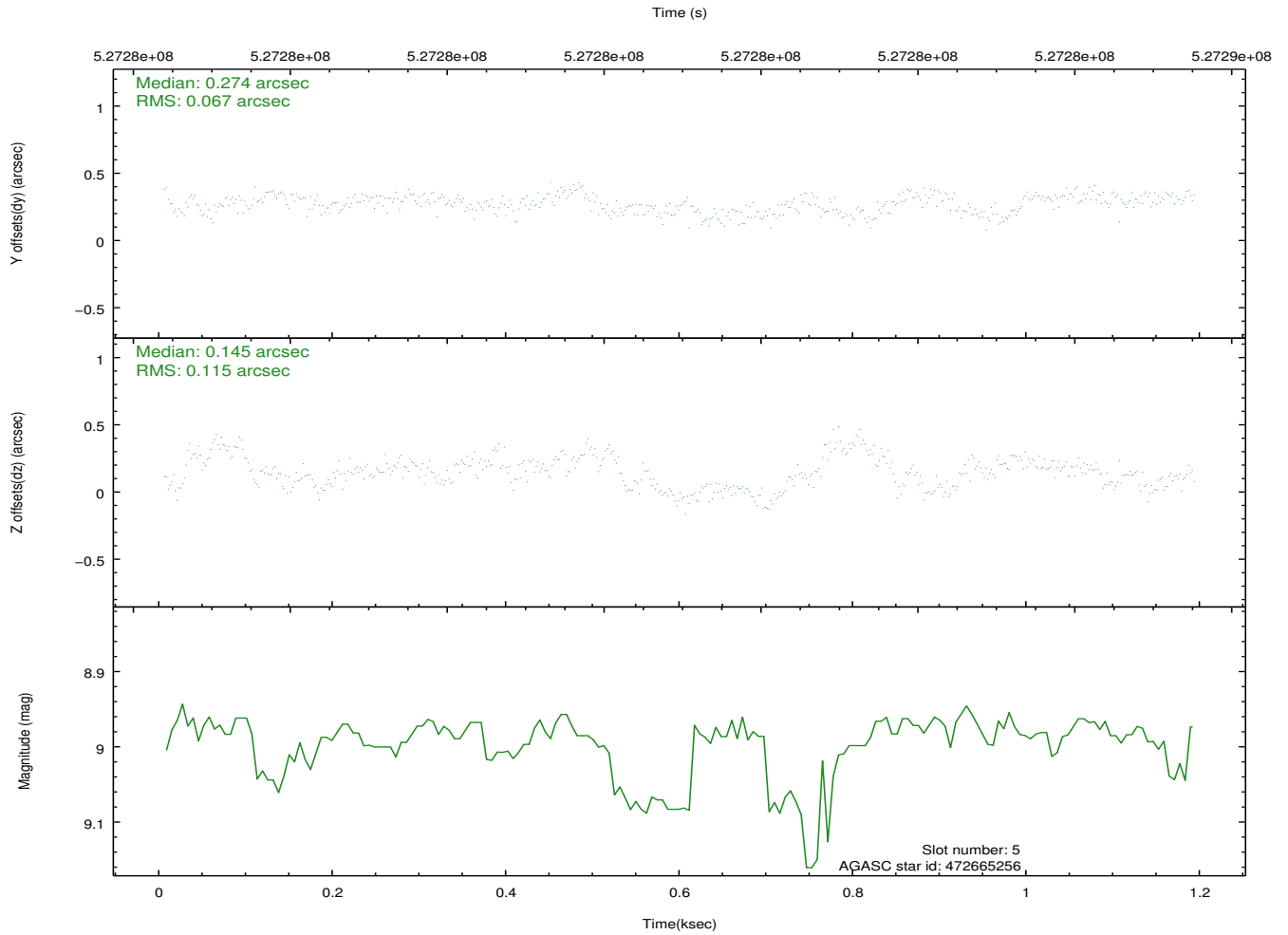
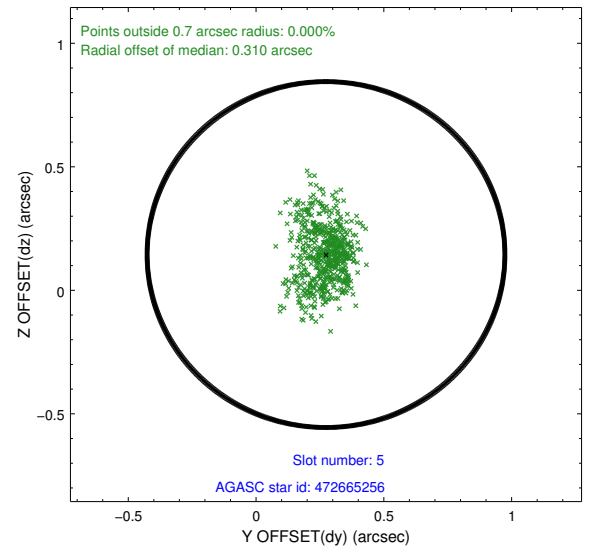
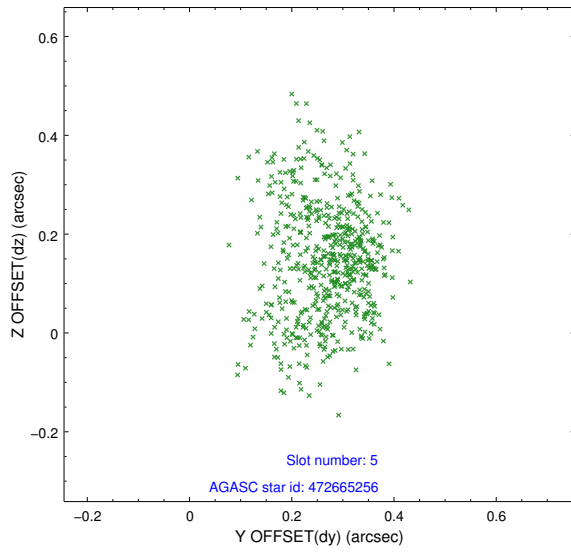
### 2.4.1 Slot 3



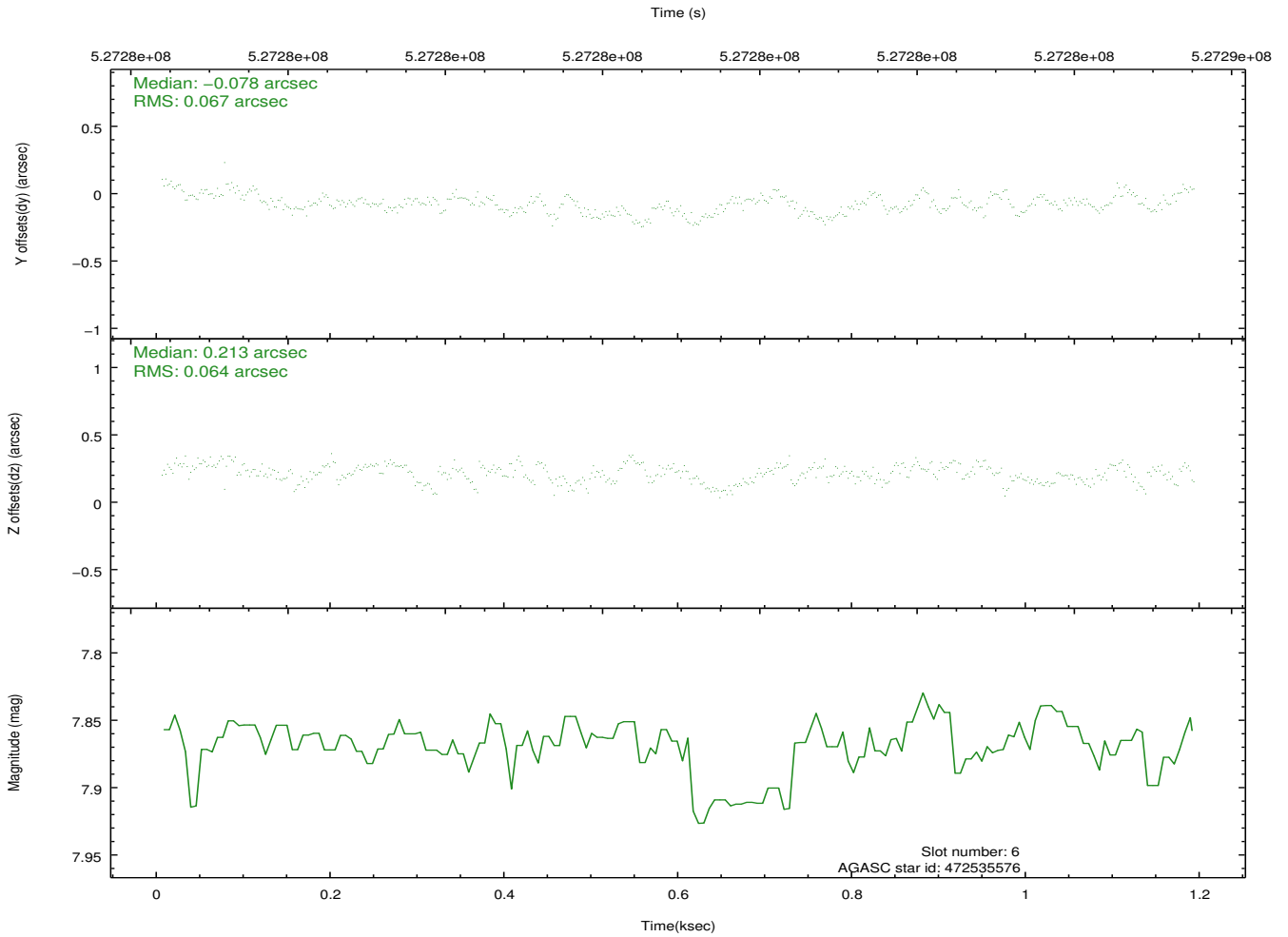
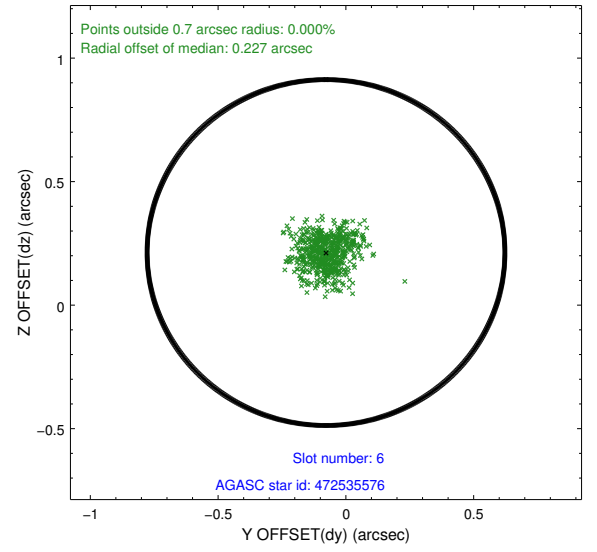
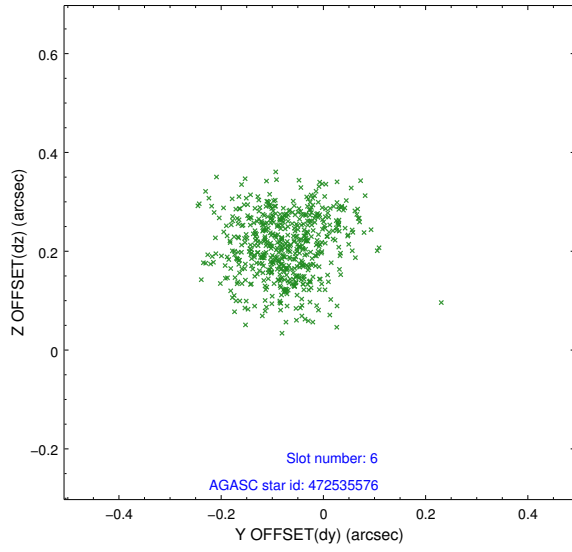
## 2.4.2 Slot 4



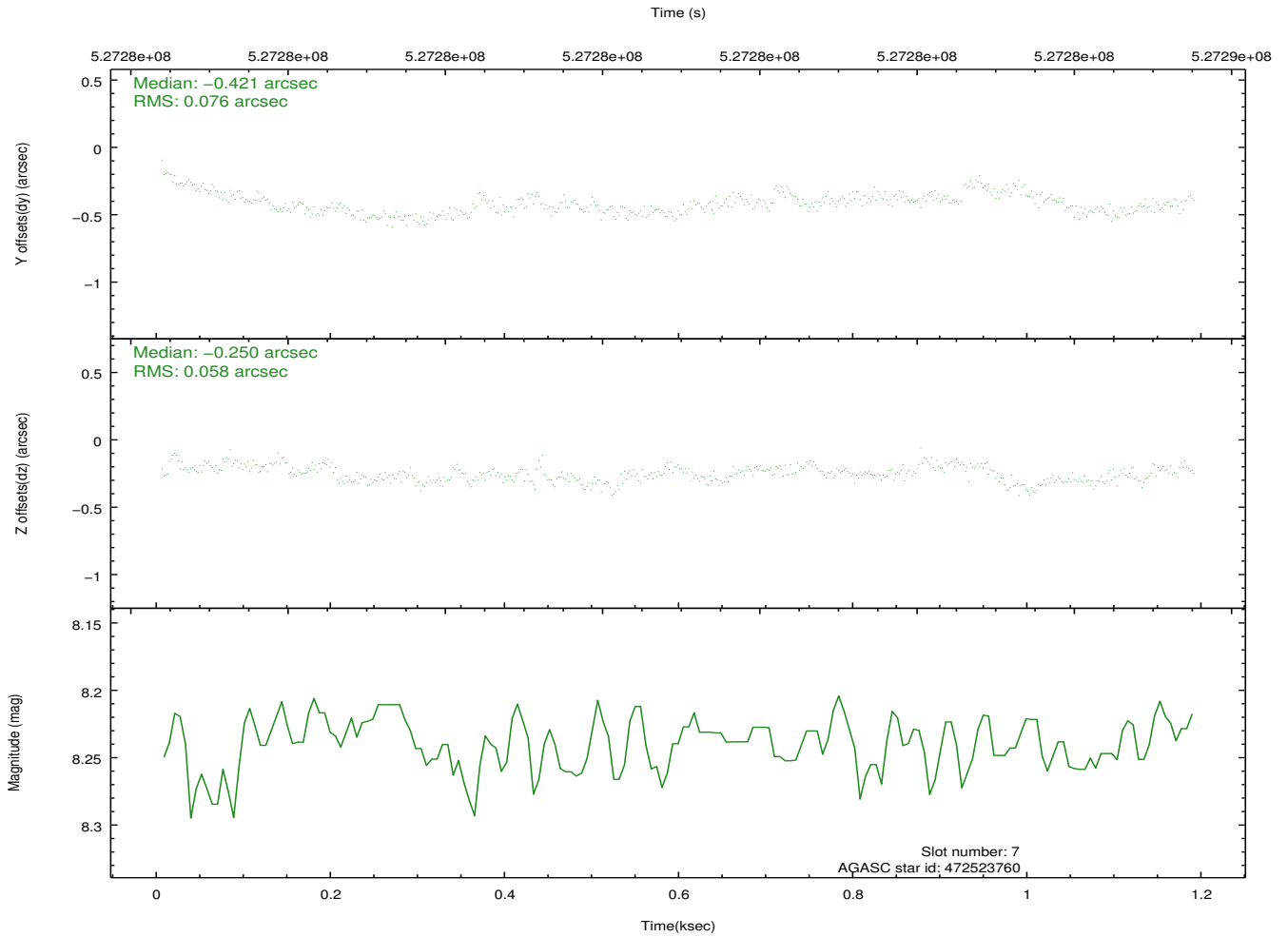
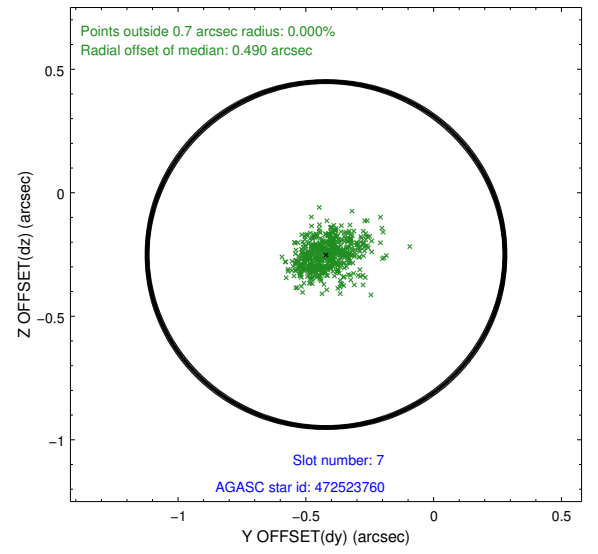
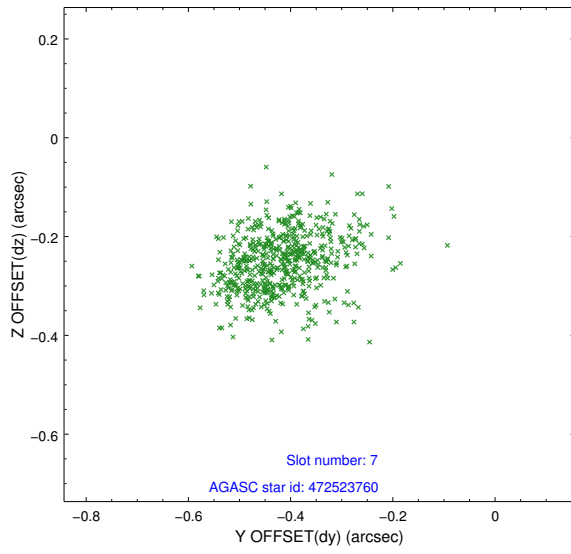
### 2.4.3 Slot 5



## 2.4.4 Slot 6

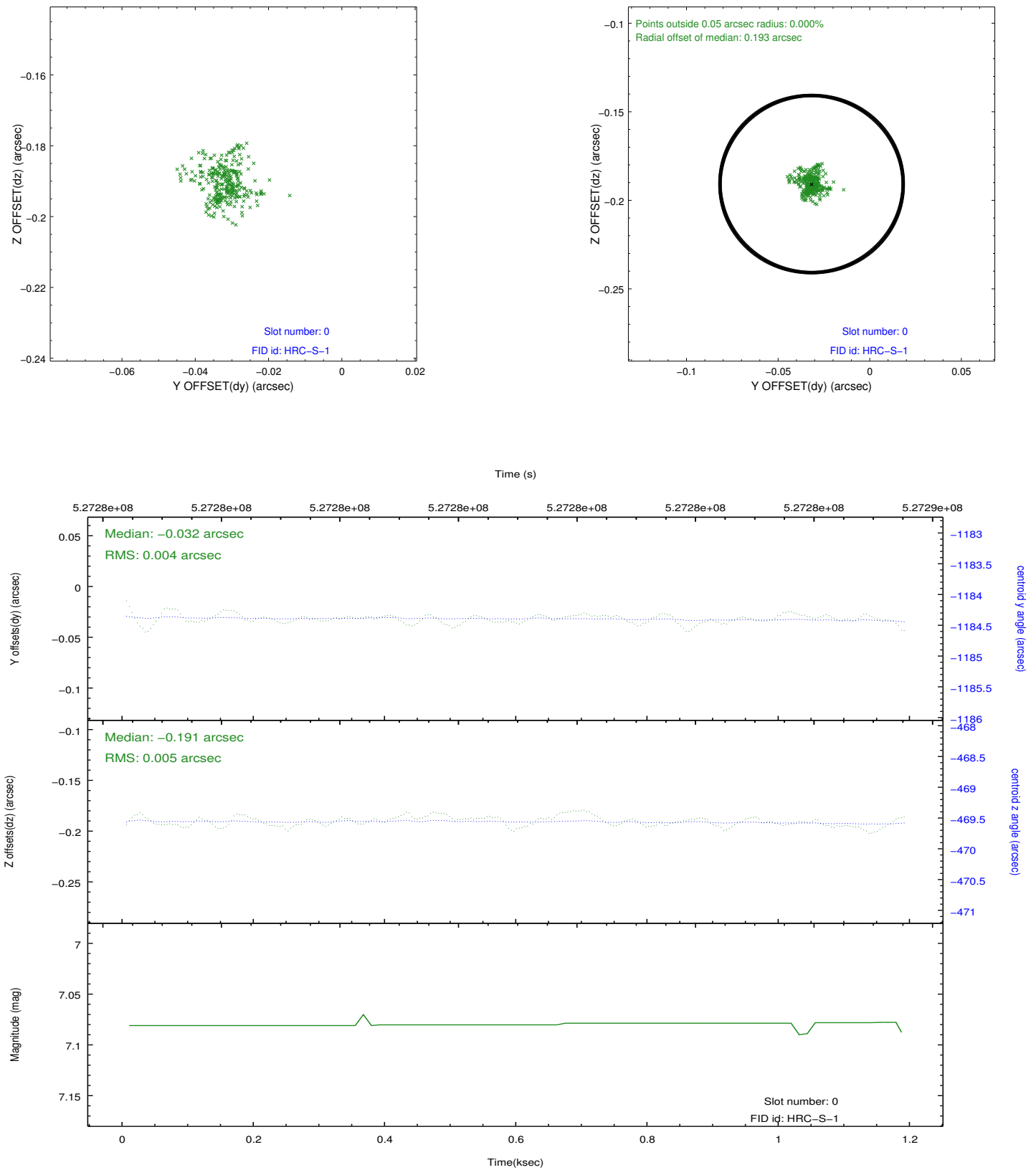


## 2.4.5 Slot 7

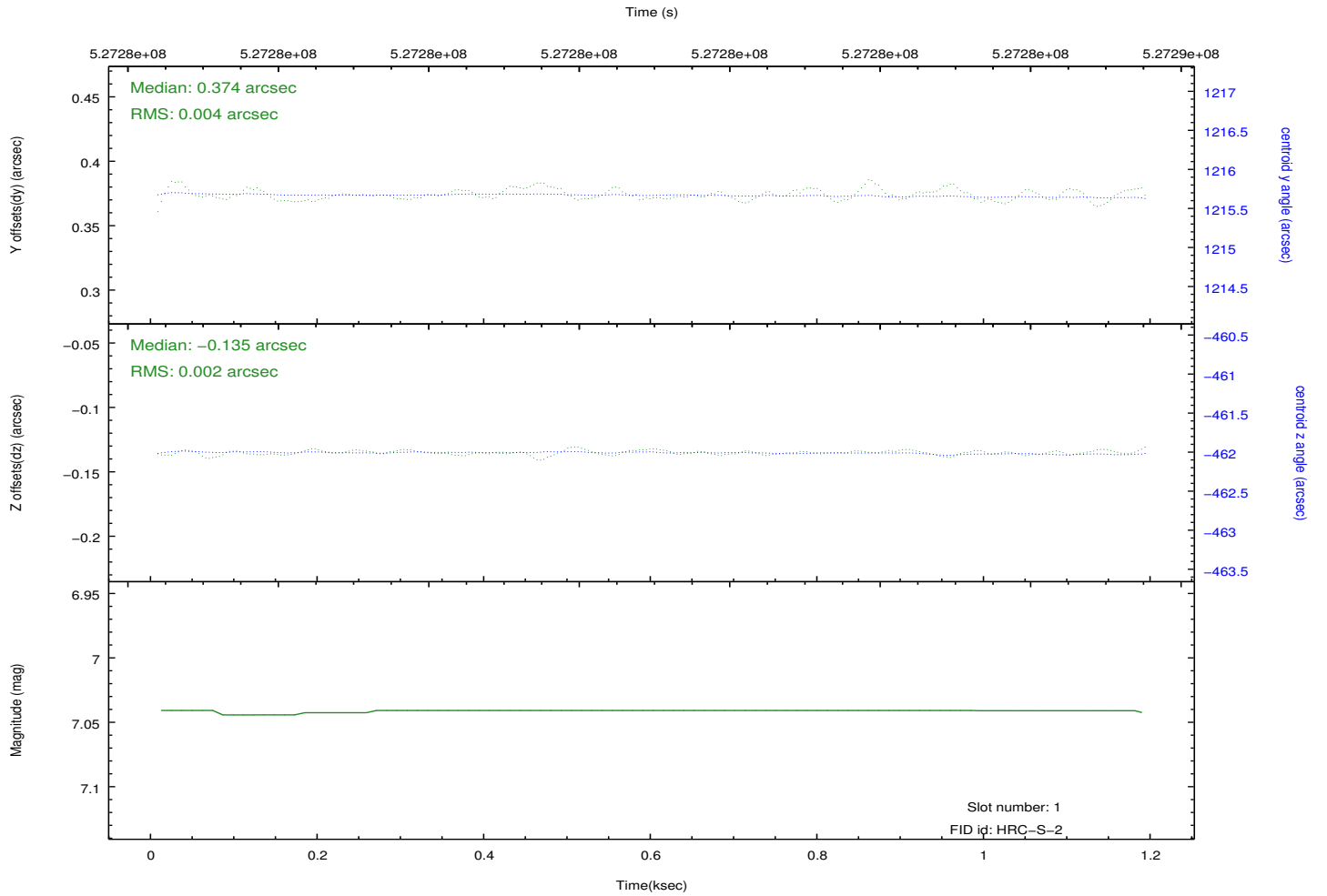
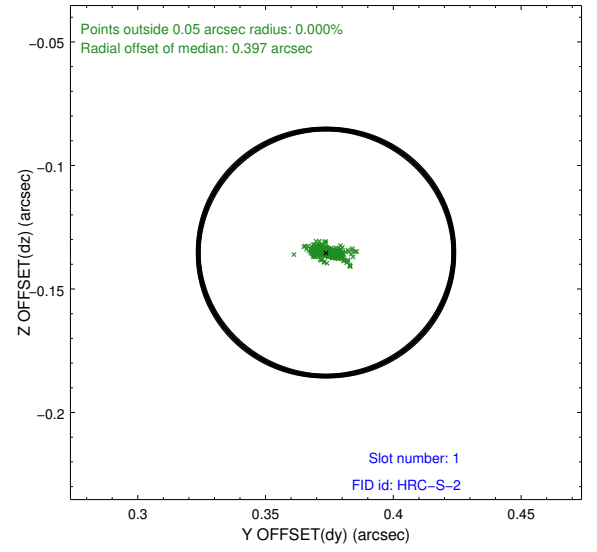
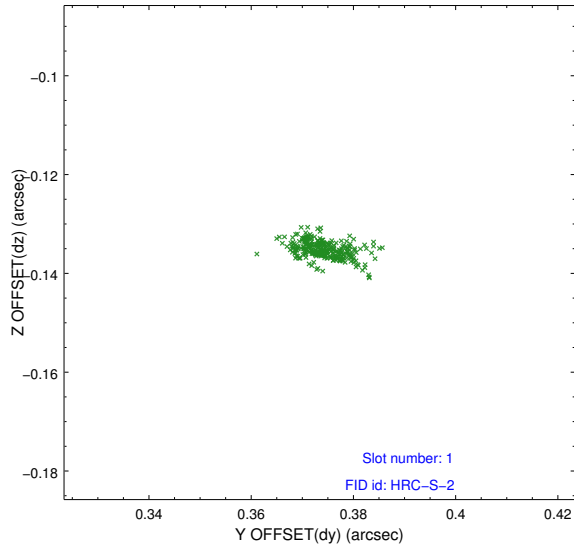


## 2.5 FID Slots

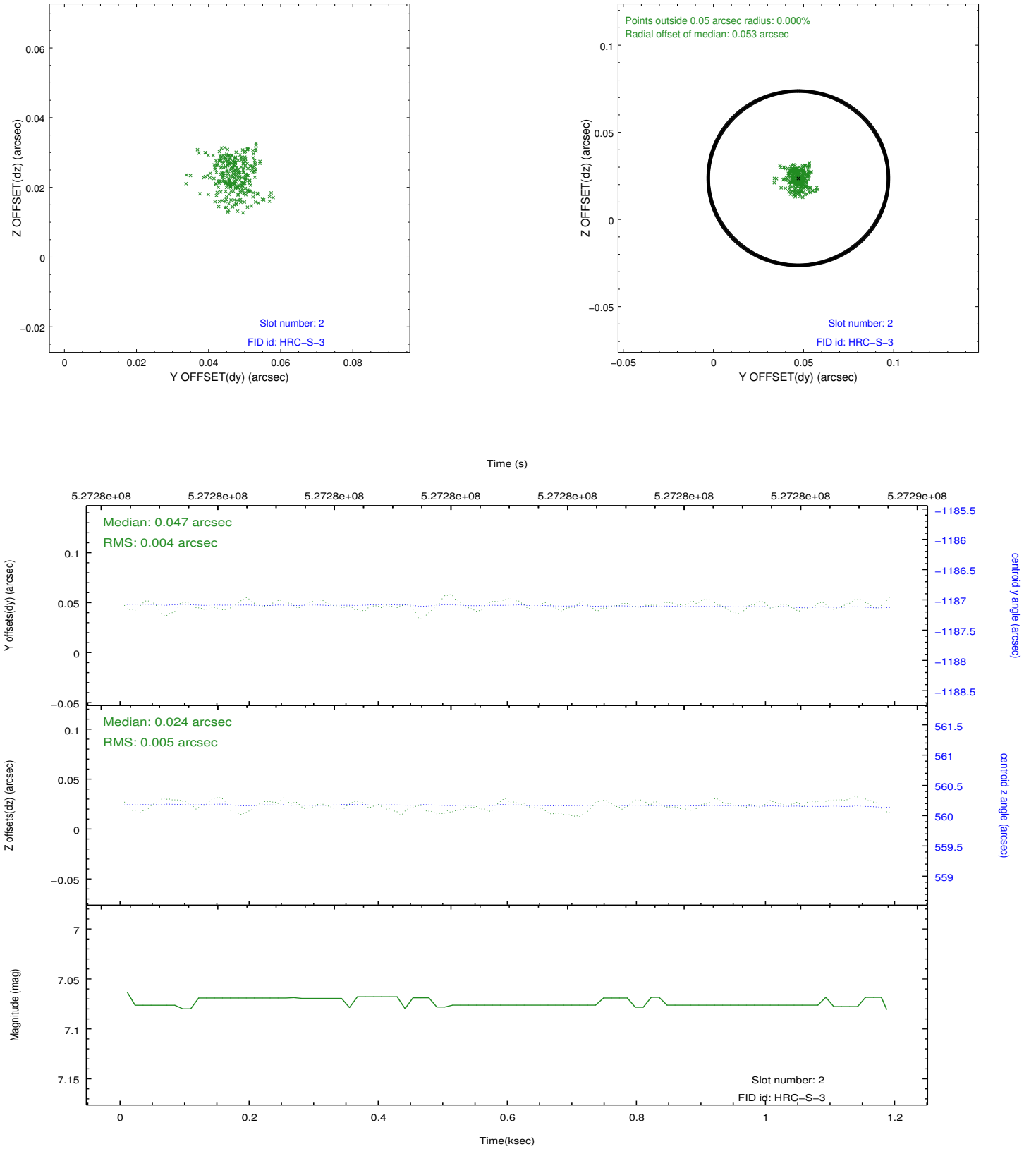
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2





## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2014.09.17
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.1551750642061

### A.2 Comments