

# V&V Reference Report

## L2 ASCDS Version : 10.2.4

Observation 16415 - L2 Version 1  
Chandra X-Ray Center

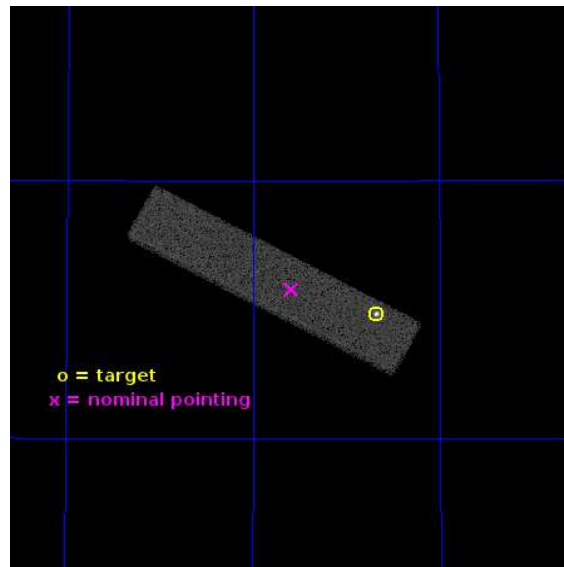
L2 Processing Date : Sep 17 2014

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# 1 Front

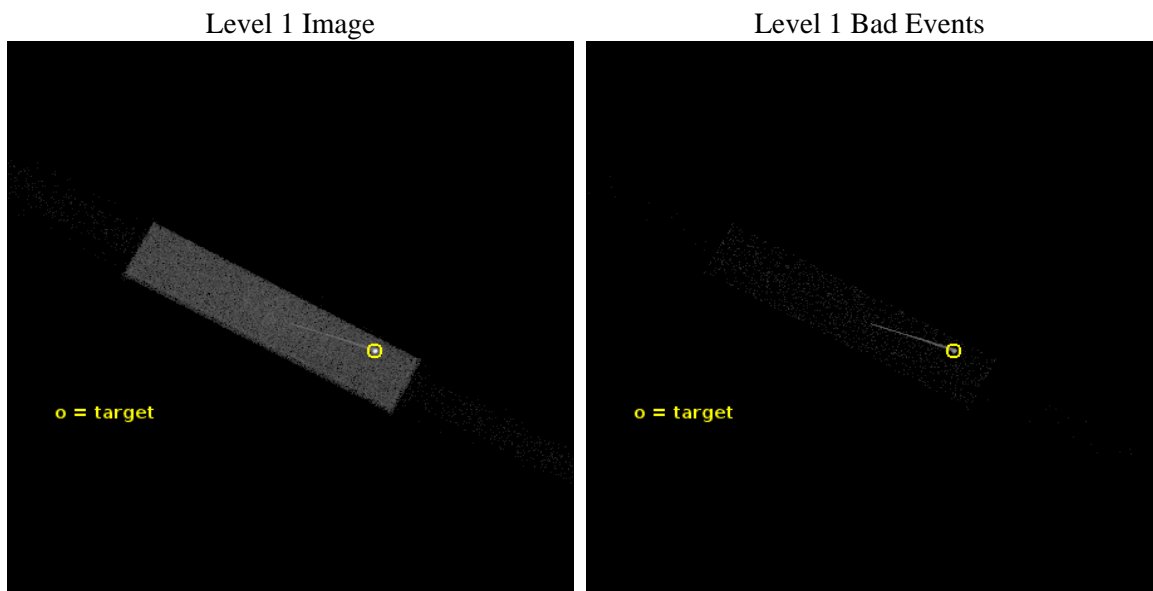
seq_num	291187	Sequence number
obs_id	16415	Observation id
title	AO-15 Calibration Observations to Monitor the Spatial Variations in the HRC-S Gain	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.3965421892	Nominal RA [deg]
dec_nom	45.790146303191	Nominal Dec [deg]
roll_nom	208.16068347893	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1153.3813140392	[s]
livetime	1146.3013993391	Ontime multiplied by DTCOR
l2events	56193	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	1153.3813140392	[s]
caldsver	4.6.3	&#160	l1events	86383	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

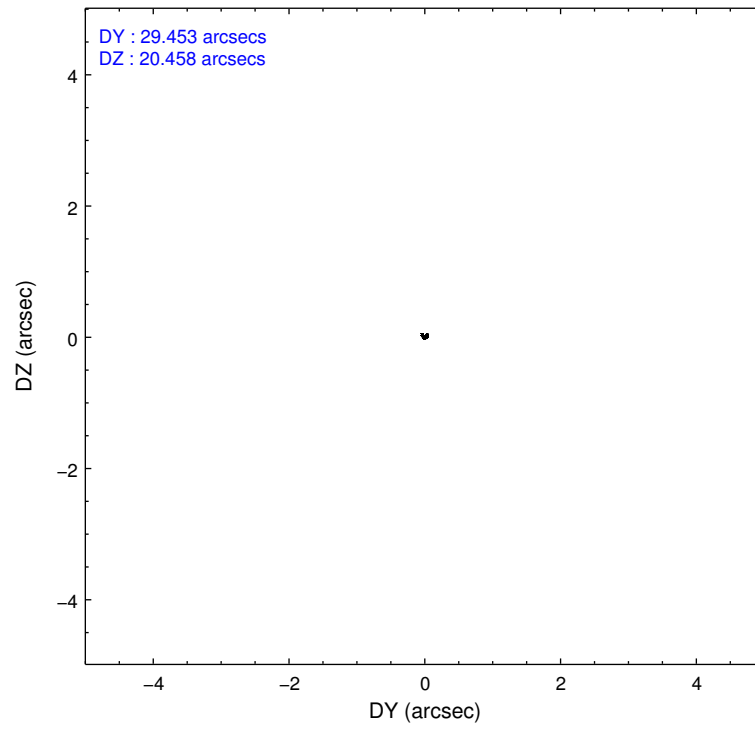
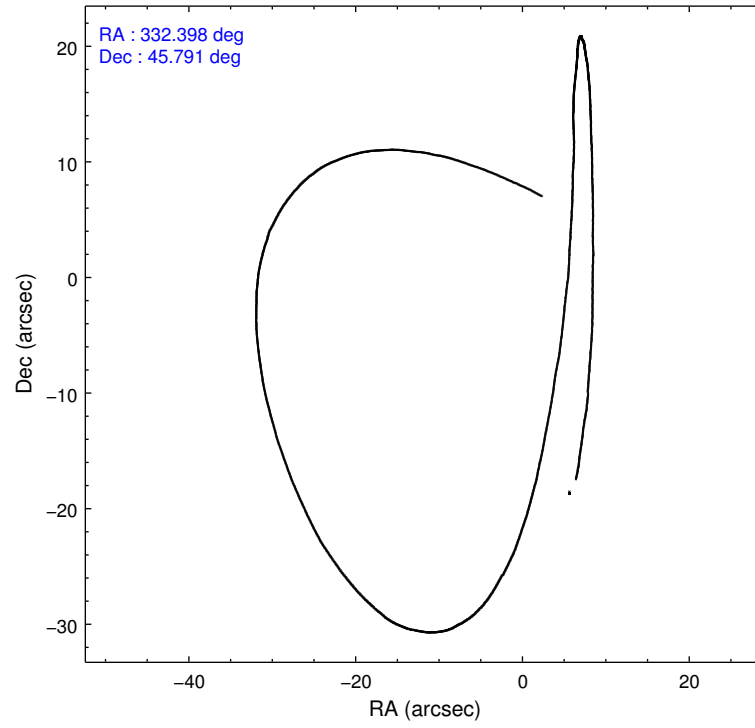
	<b>segment 1</b>	<b>segment 2</b>	<b>segment 3</b>
level 1 events	643	85102	638
rejected events	643	19547	638
rejected %	100%	22%	100%

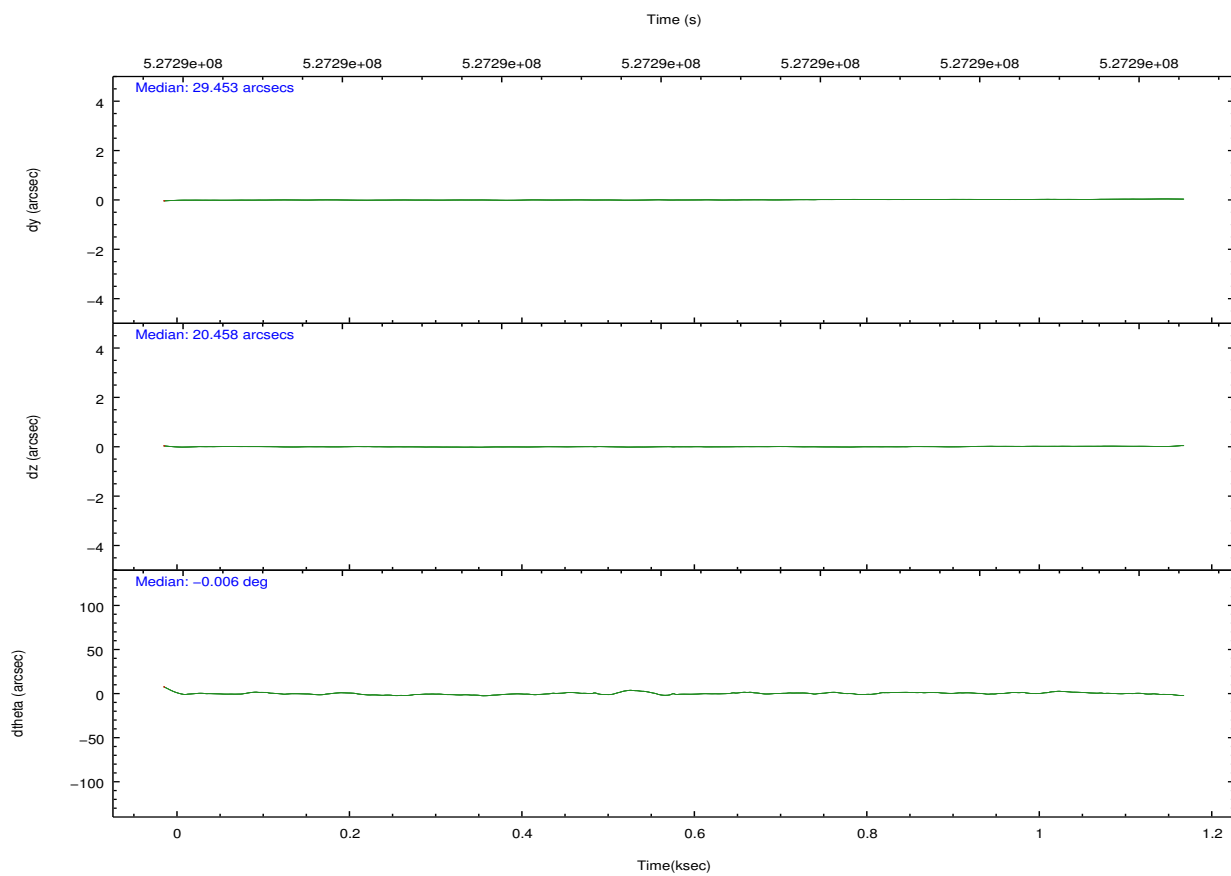
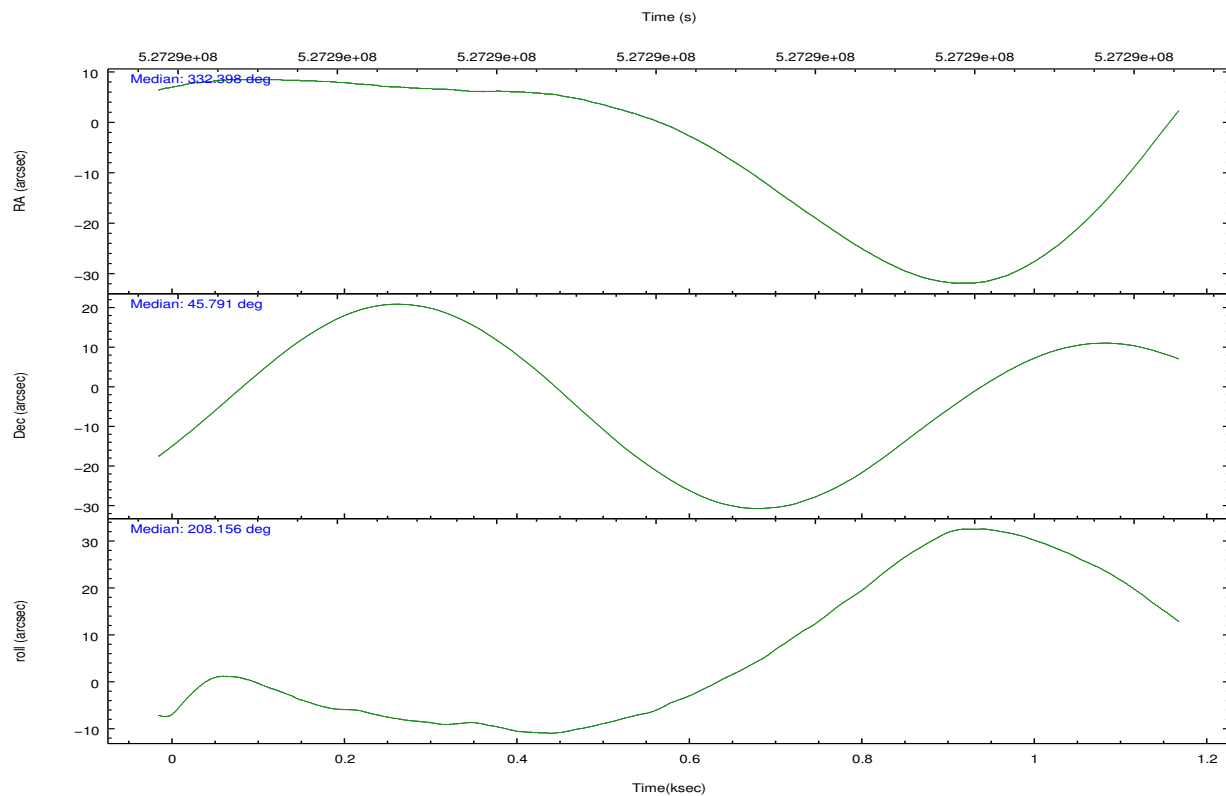
## 2.2 Compared Parameters

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	332.417067	332.3965421891985
[deg] Pointing Dec	45.814526	45.79014630319072
[deg] Pointing Roll	208.078825	208.1606834789294
[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)	527285608.184000	527285231.51661
Observation start date	2014-09-16T20:12:21	2014-09-16T20:07:11
[s] Observation end time (MET)	527286608.184000	527286741.34169
Observation end date	2014-09-16T20:29:01	2014-09-16T20:32:21

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

## 2.3 Aspect





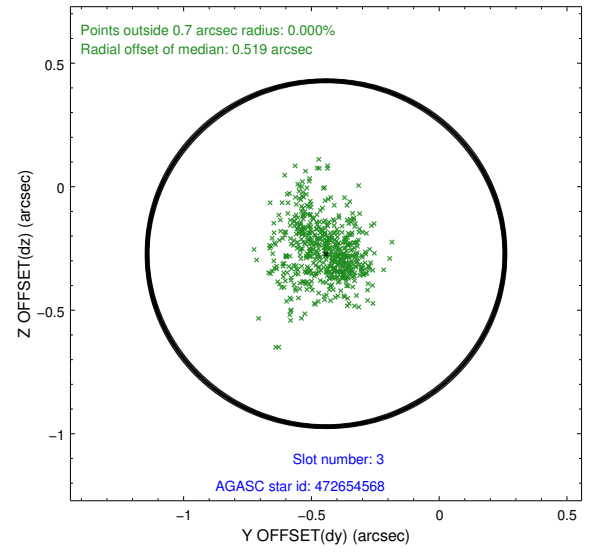
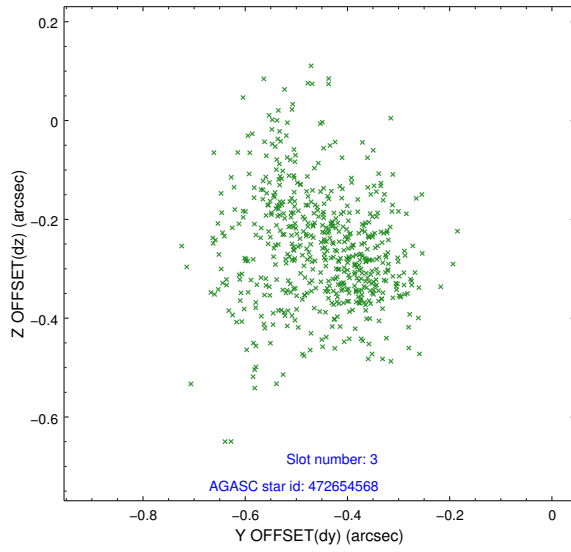
### Slot Statistics

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	289	-0.179	-0.196	0.006	0.011	0.000000	0.000000	-1184.47	-469.61
1	FID	HRC-S-2	7.04	289	0.229	-0.107	0.011	0.025	0.000000	0.000000	1211.49	-463.68
2	FID	HRC-S-4	7.01	289	0.352	-0.001	0.012	0.022	0.000000	0.000000	1218.44	561.17
3	GUIDE	472654568	9.40	578	-0.443	-0.271	0.157	0.272	332.194449	45.063576	1772.14	2121.44
4	GUIDE	472663080	9.39	578	0.339	0.246	0.158	0.258	332.652741	46.473840	-1628.59	-1812.63
5	GUIDE	472665256	8.99	578	0.223	0.069	0.111	0.195	332.808125	46.195041	-1507.18	-751.74
6	GUIDE	472523760	8.25	578	-0.398	-0.348	0.088	0.151	331.645363	45.403260	2411.65	381.88
7	GUIDE	472659736	9.35	576	0.285	0.306	0.158	0.265	332.848312	46.590160	-2251.44	-1959.79

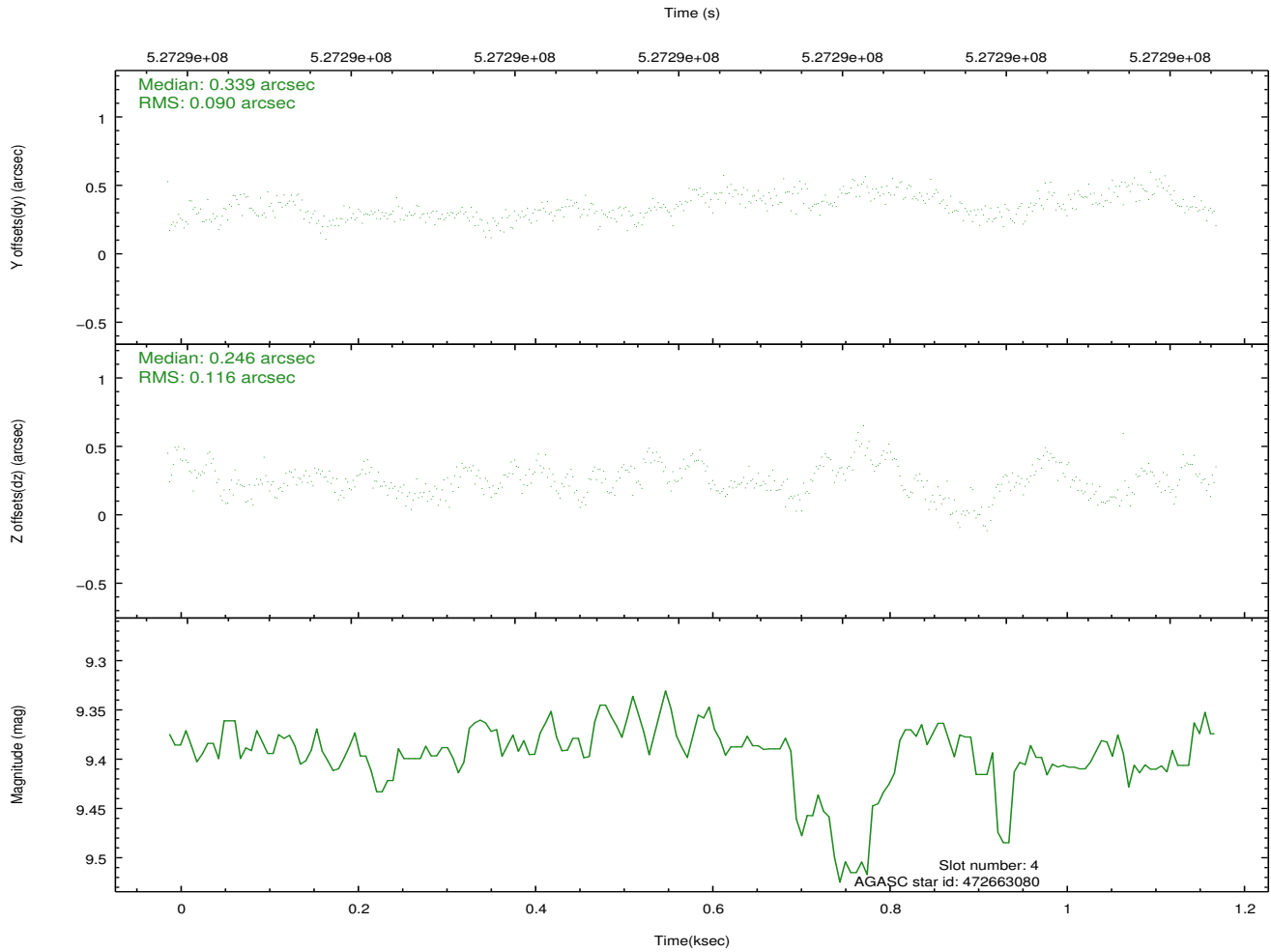
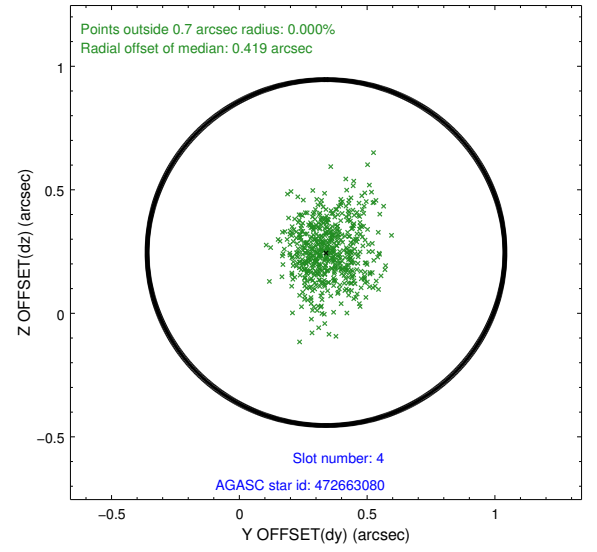
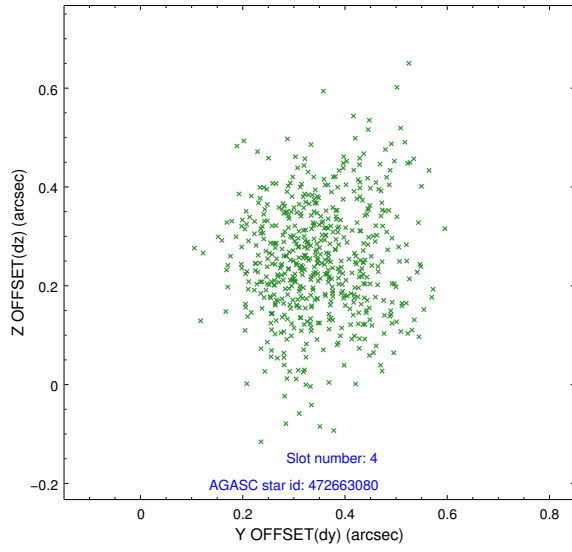


## 2.4 Star Slots

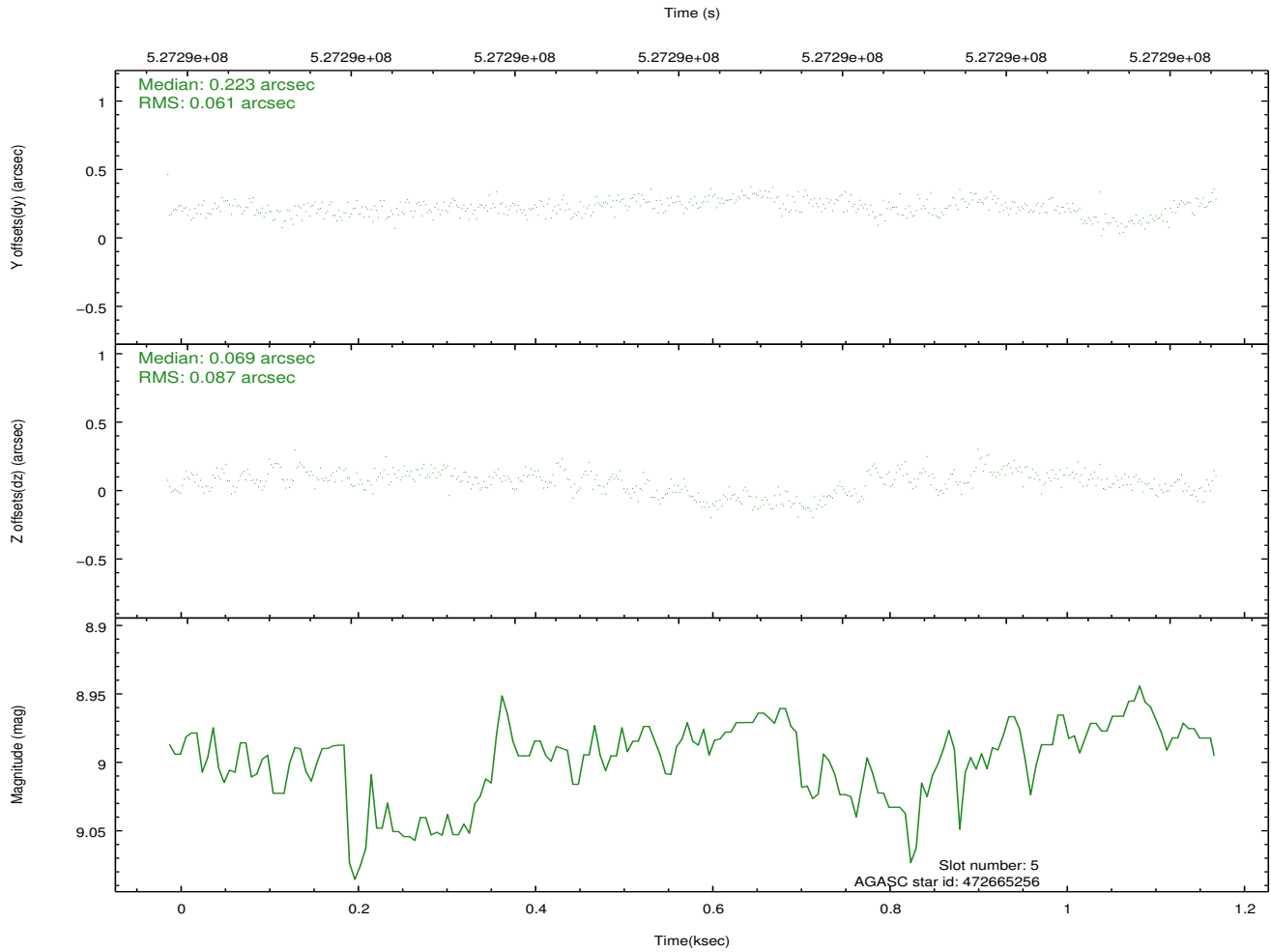
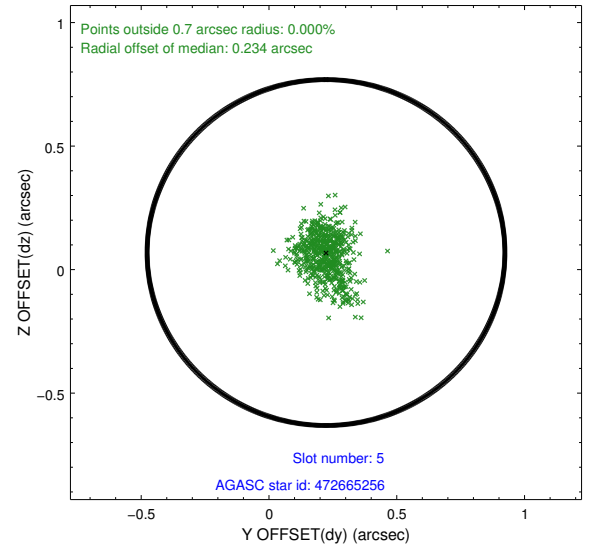
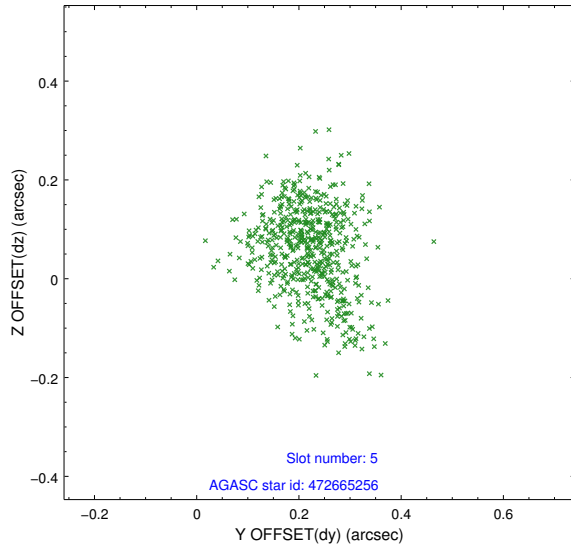
### 2.4.1 Slot 3



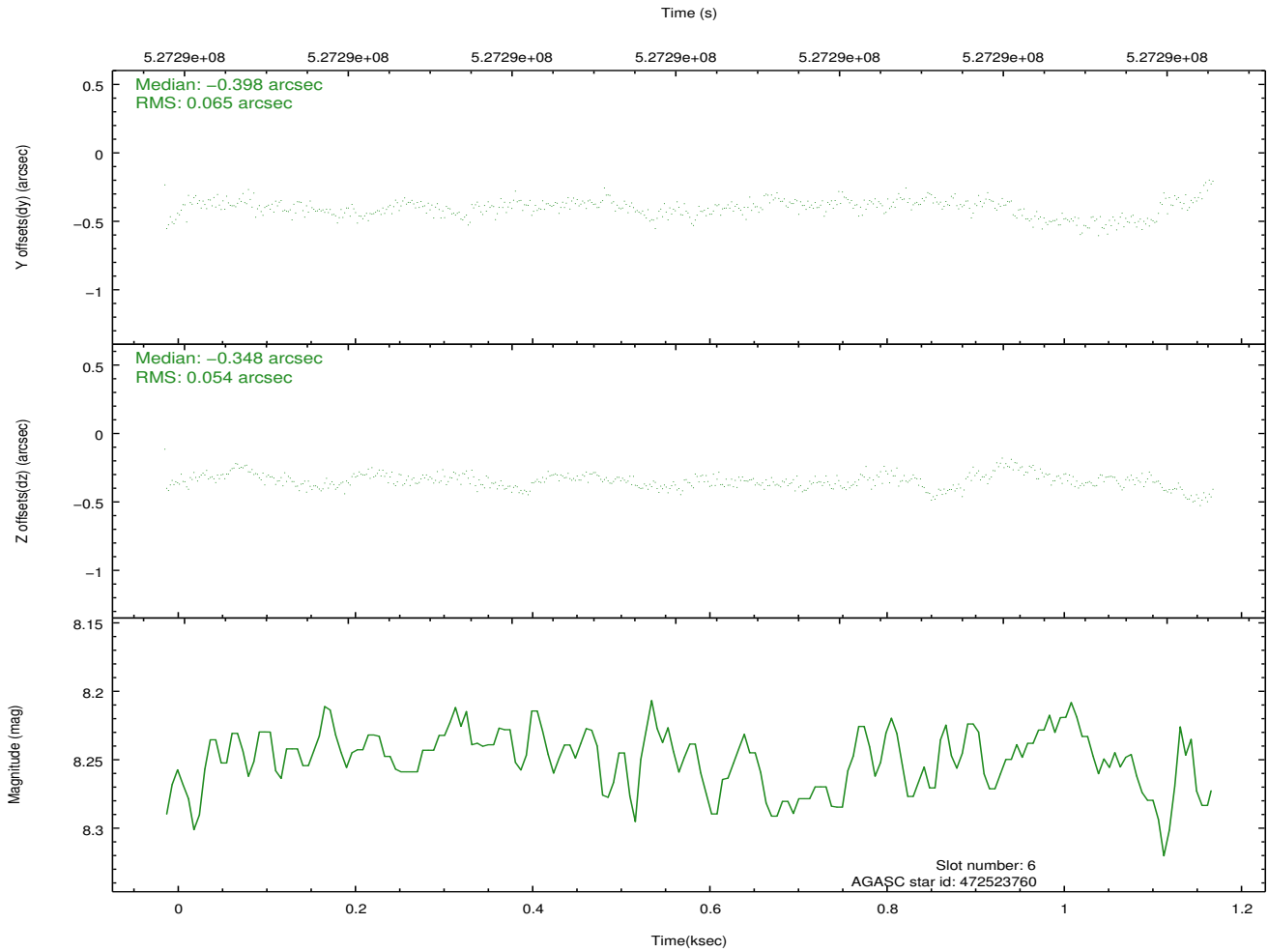
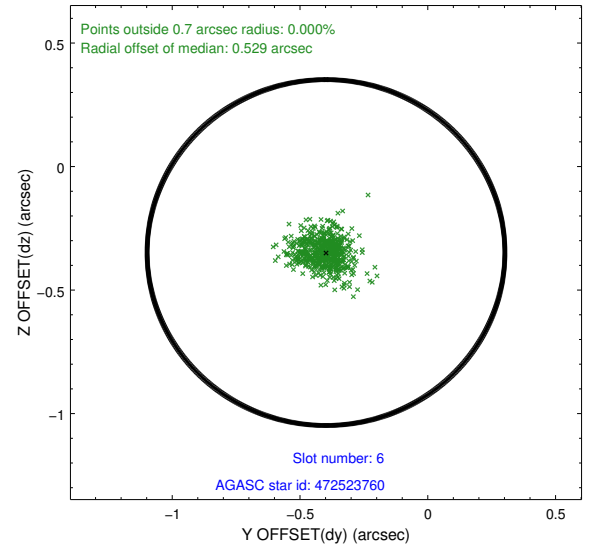
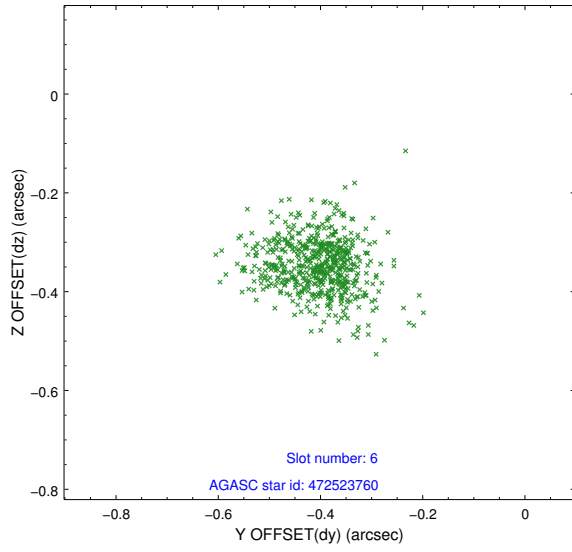
## 2.4.2 Slot 4



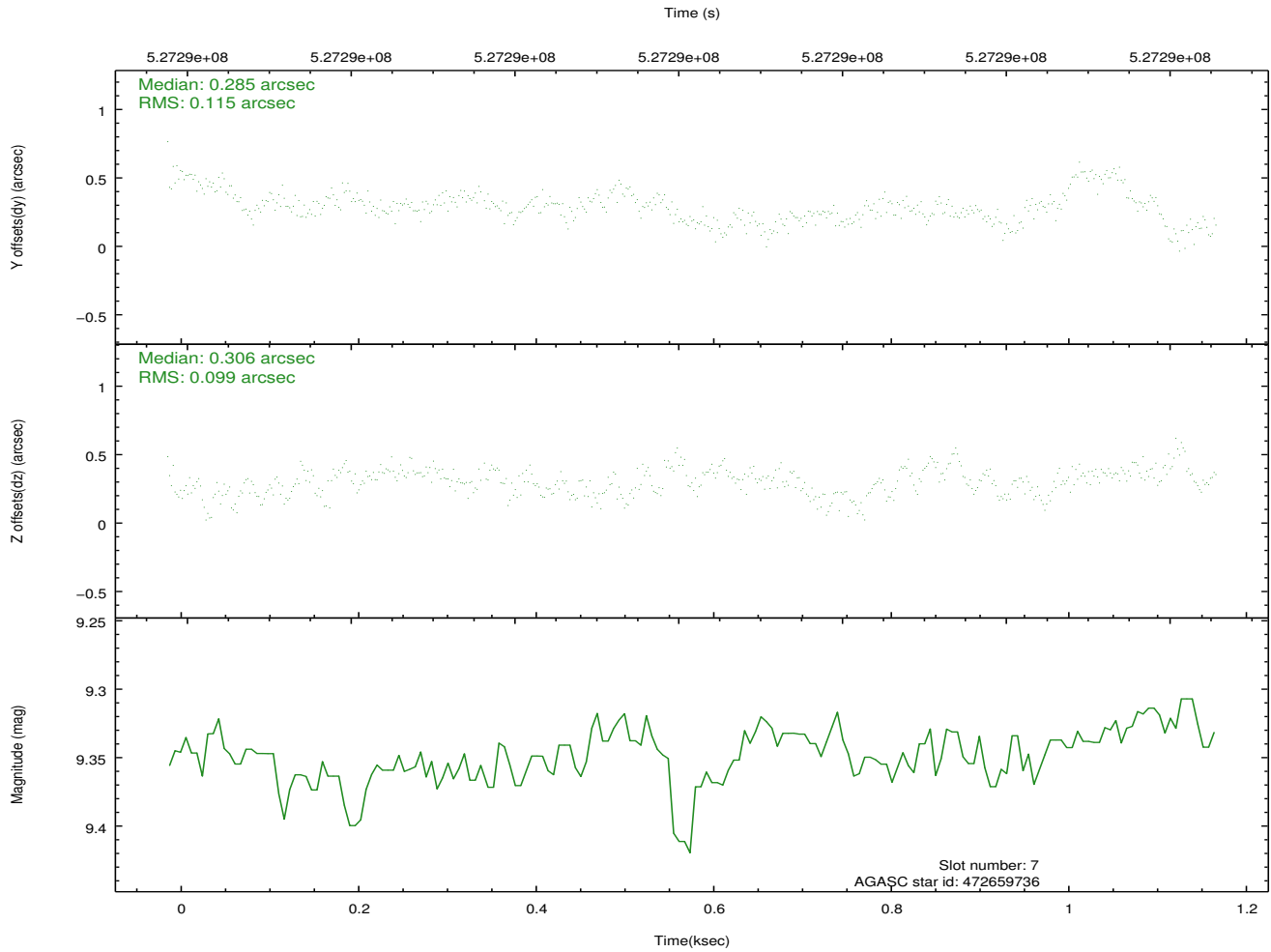
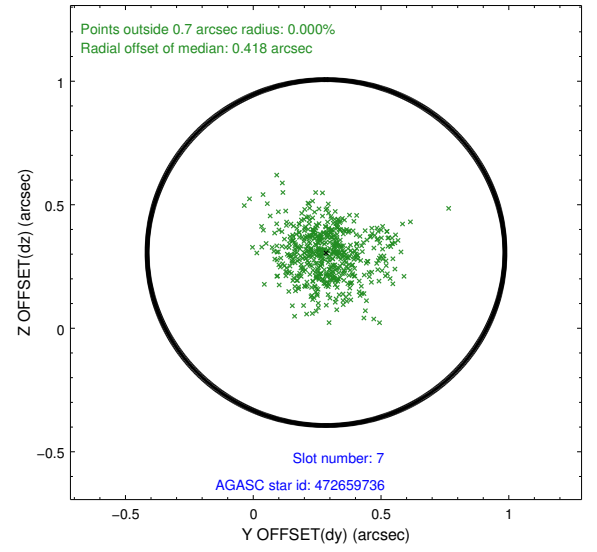
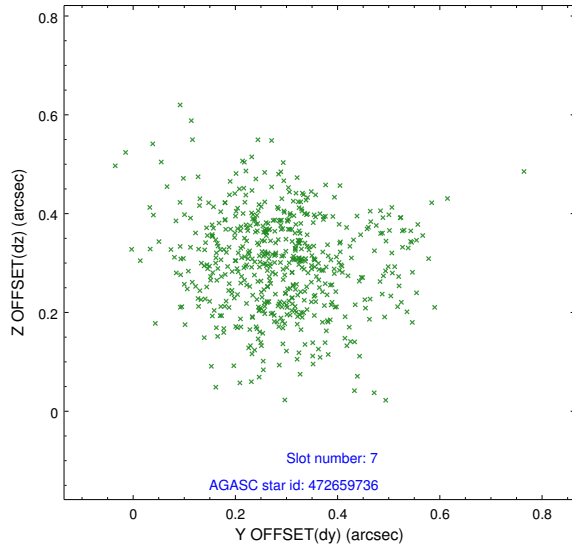
### 2.4.3 Slot 5



## 2.4.4 Slot 6

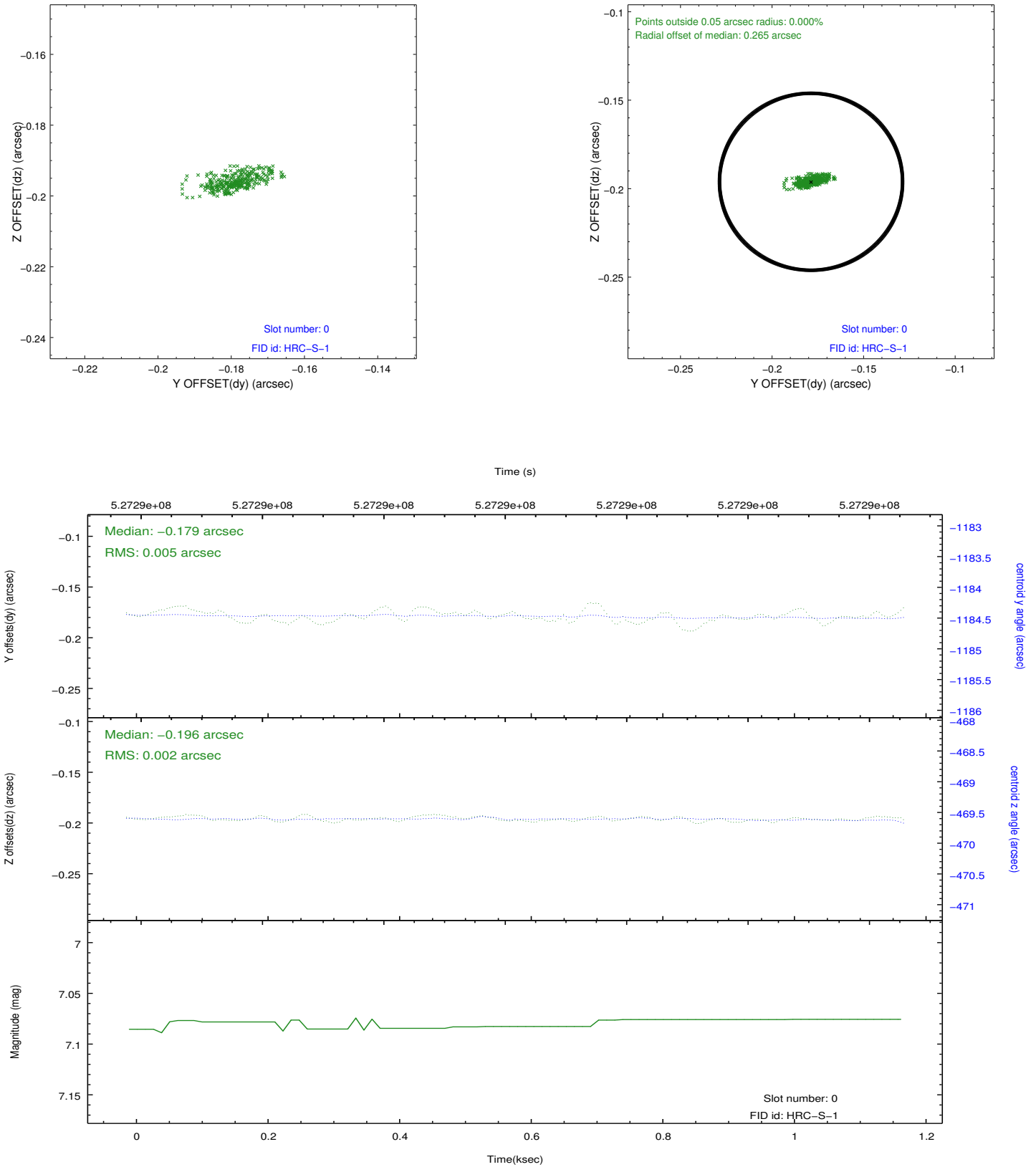


## 2.4.5 Slot 7

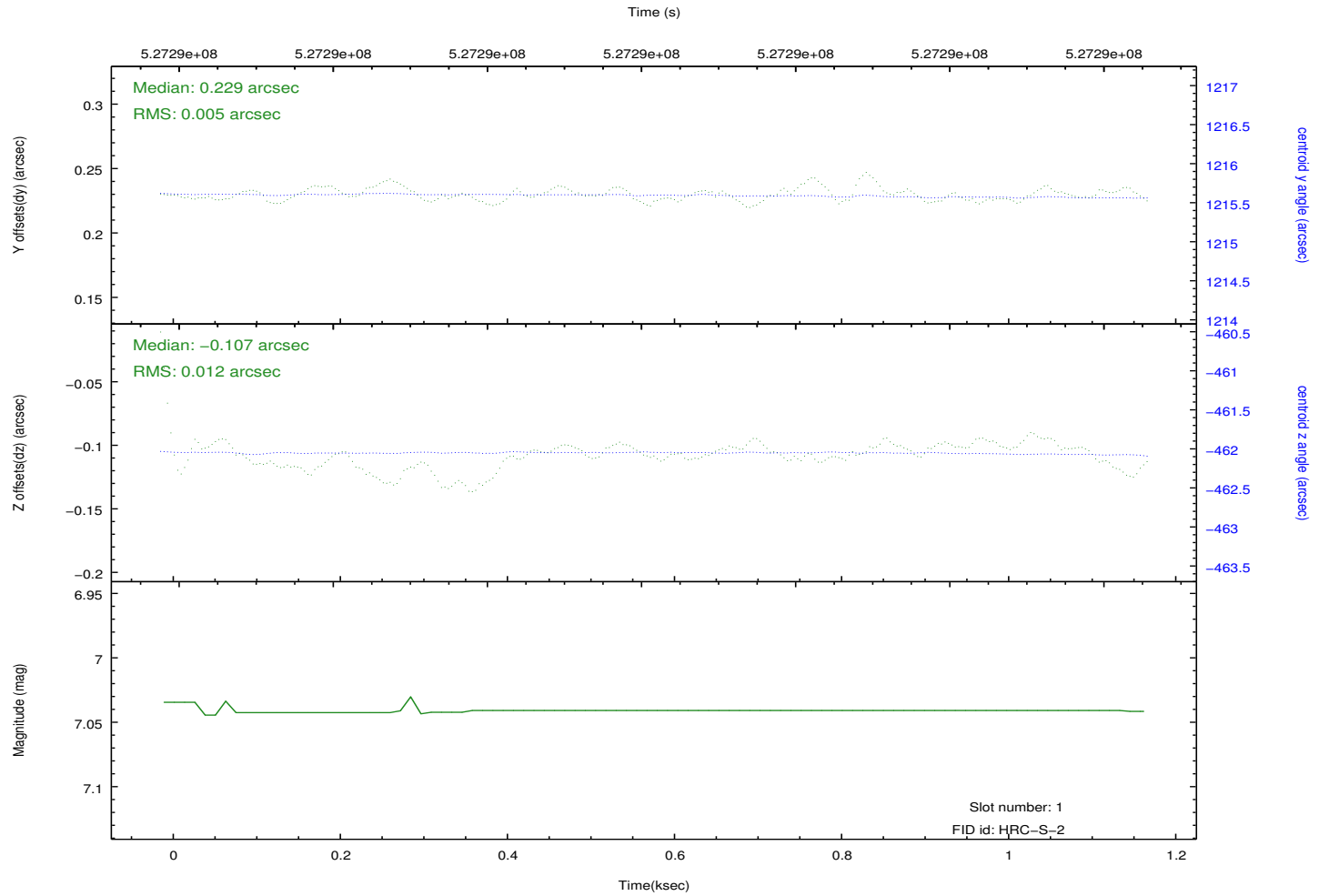
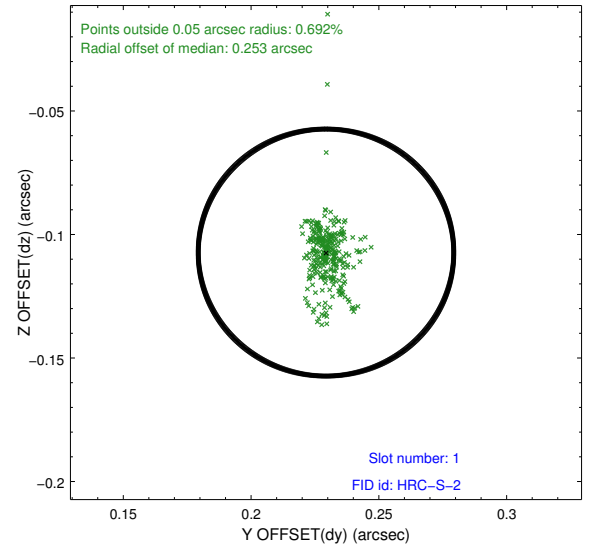
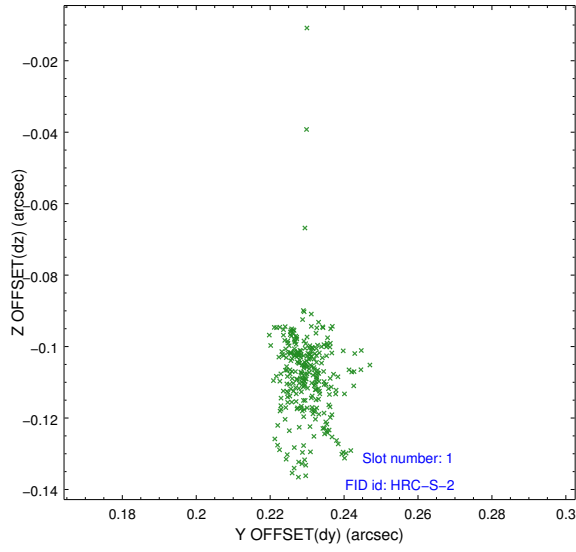


## 2.5 FID Slots

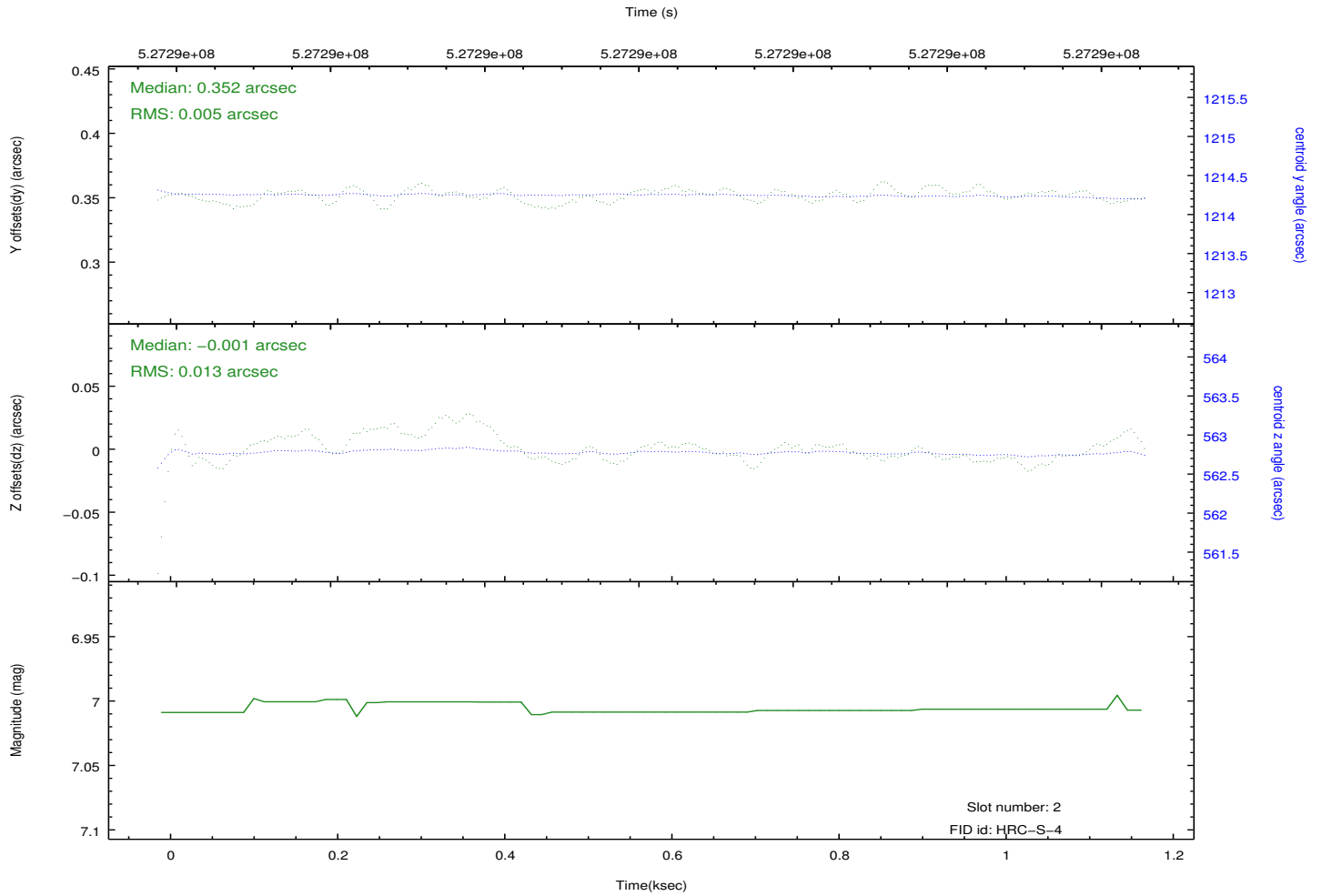
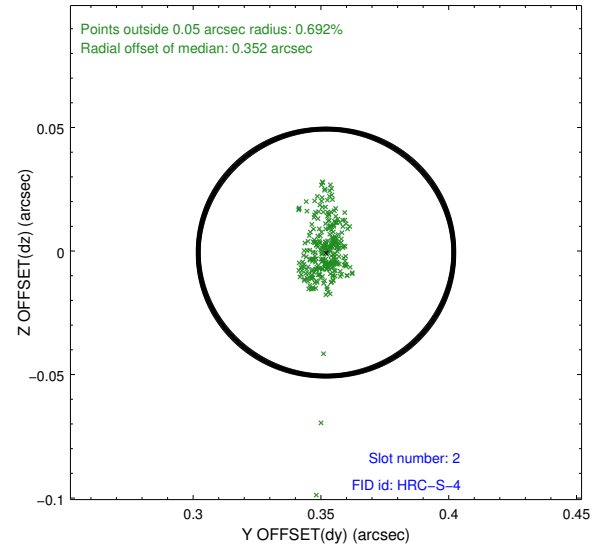
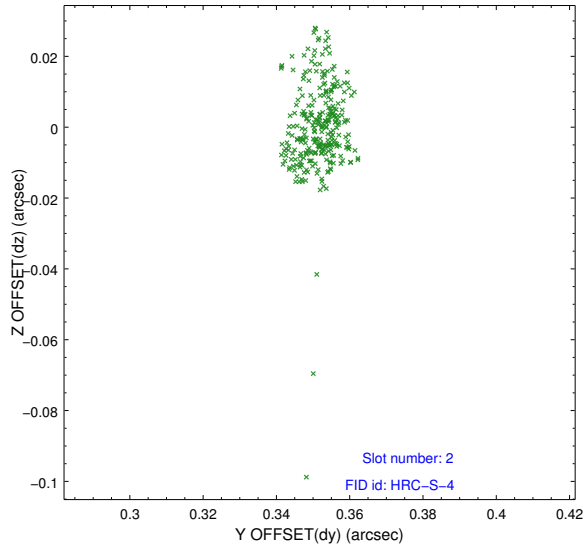
### 2.5.1 Slot 0



## 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	1.1533813140392

### A.2 Comments