

# V&V Reference Report

## L2 ASCDS Version : 10.2.4

Observation 16406 - L2 Version 1  
Chandra X-Ray Center

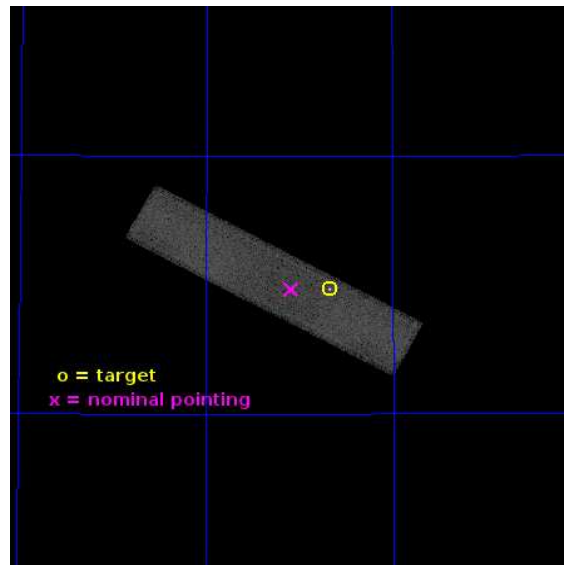
L2 Processing Date : Sep 17 2014

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# 1 Front

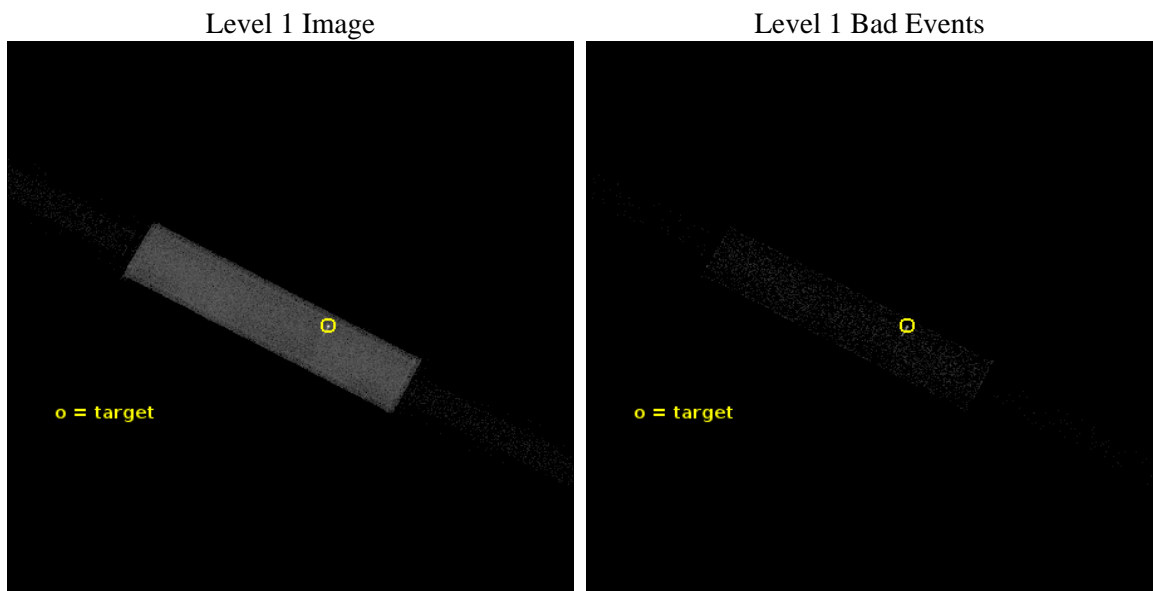
seq_num	291178	Sequence number
obs_id	16406	Observation id
title	AO-15 Calibration Observations to Monitor the Spatial Variations in the HRC-S Gain	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.27114707763	Nominal RA [deg]
dec_nom	45.742078216503	Nominal Dec [deg]
roll_nom	208.11517257355	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1157.4813143015	[s]
livetime	1147.3769572322	Ontime multiplied by DTCOR
l2events	79922	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	1157.4813143015	[s]
caldsver	4.6.3	&#160	l1events	121620	Number of level 1 events
date	2014-09-17T03:48:14	Date and time of file creation			
revision	1	Processing version of data			

### 2.1.3 Events

Level 1 Events

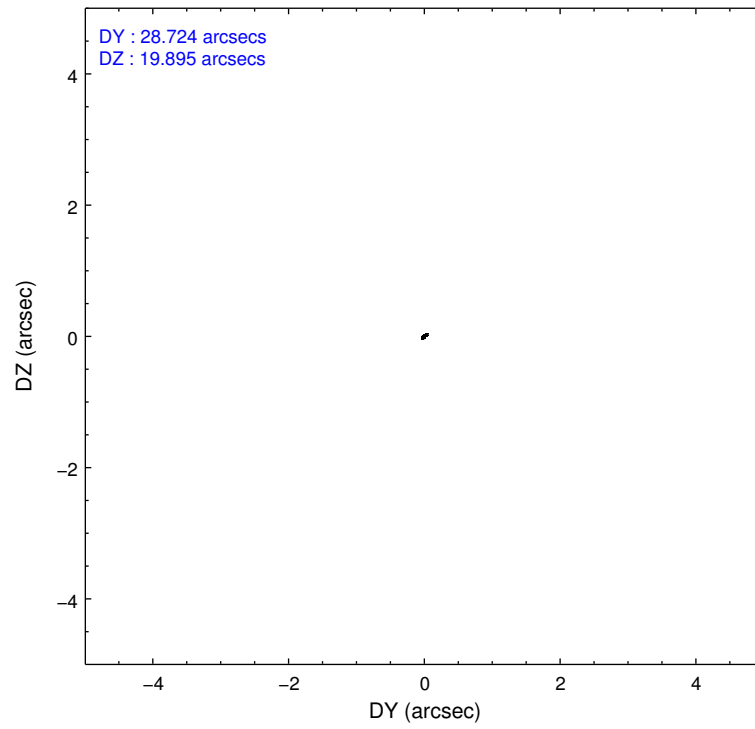
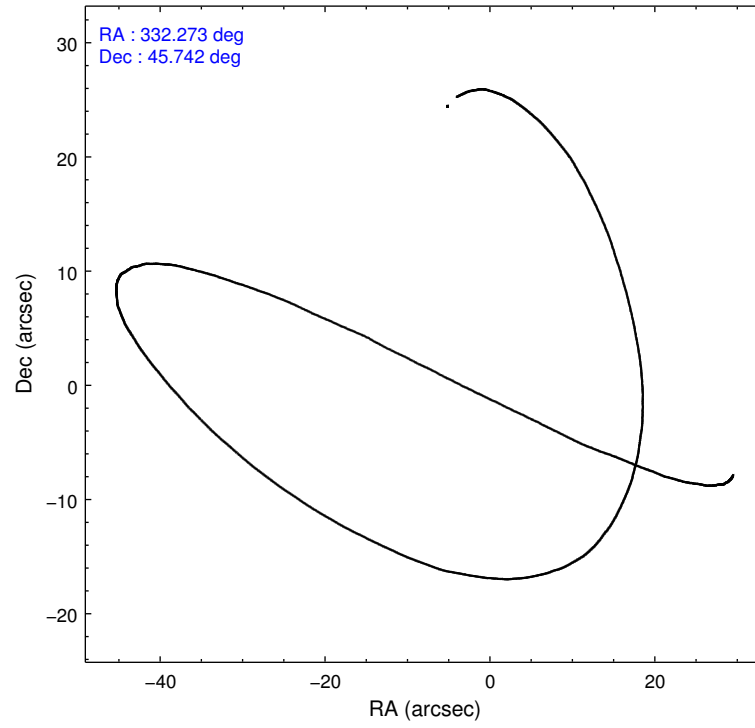
	<b>segment 1</b>	<b>segment 2</b>	<b>segment 3</b>
level 1 events	1312	119153	1155
rejected events	1312	29818	1155
rejected %	100%	25%	100%

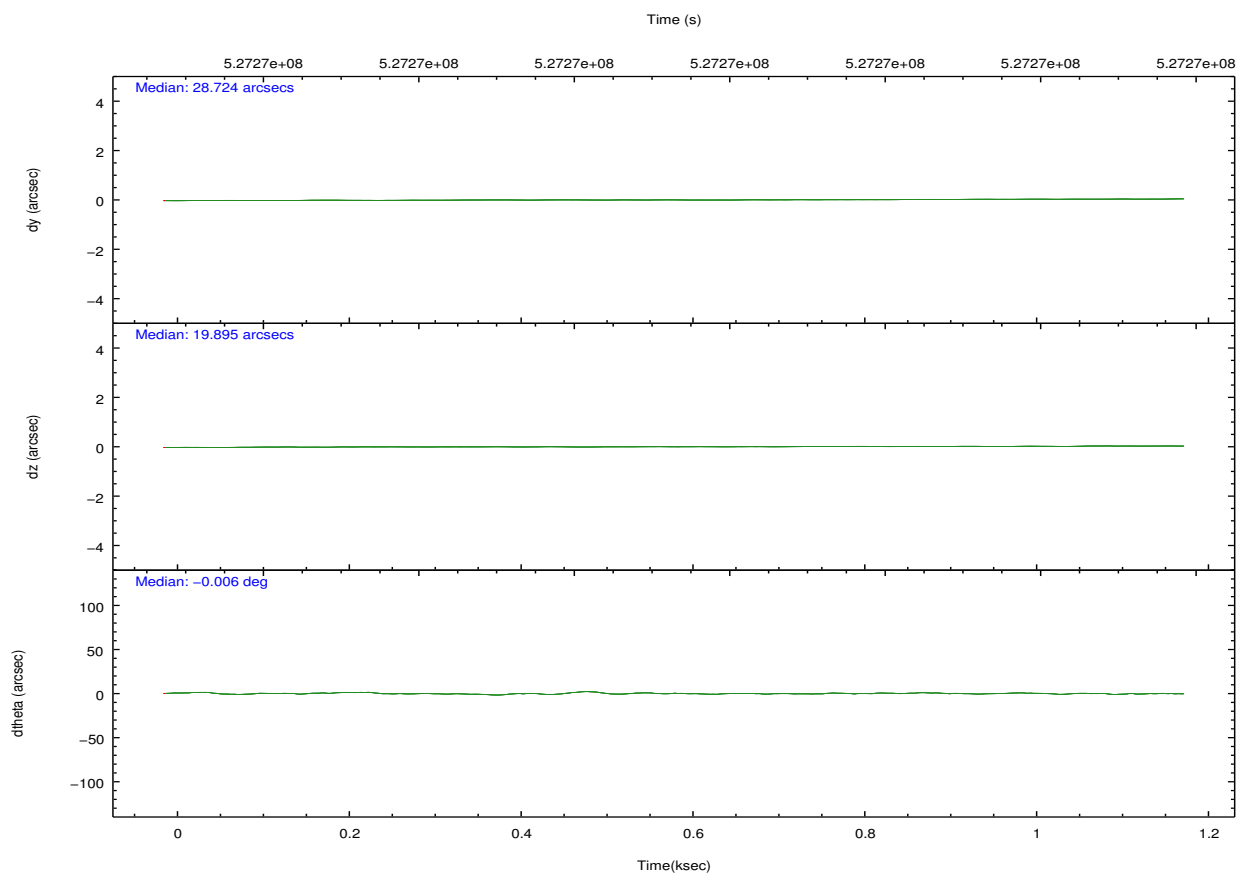
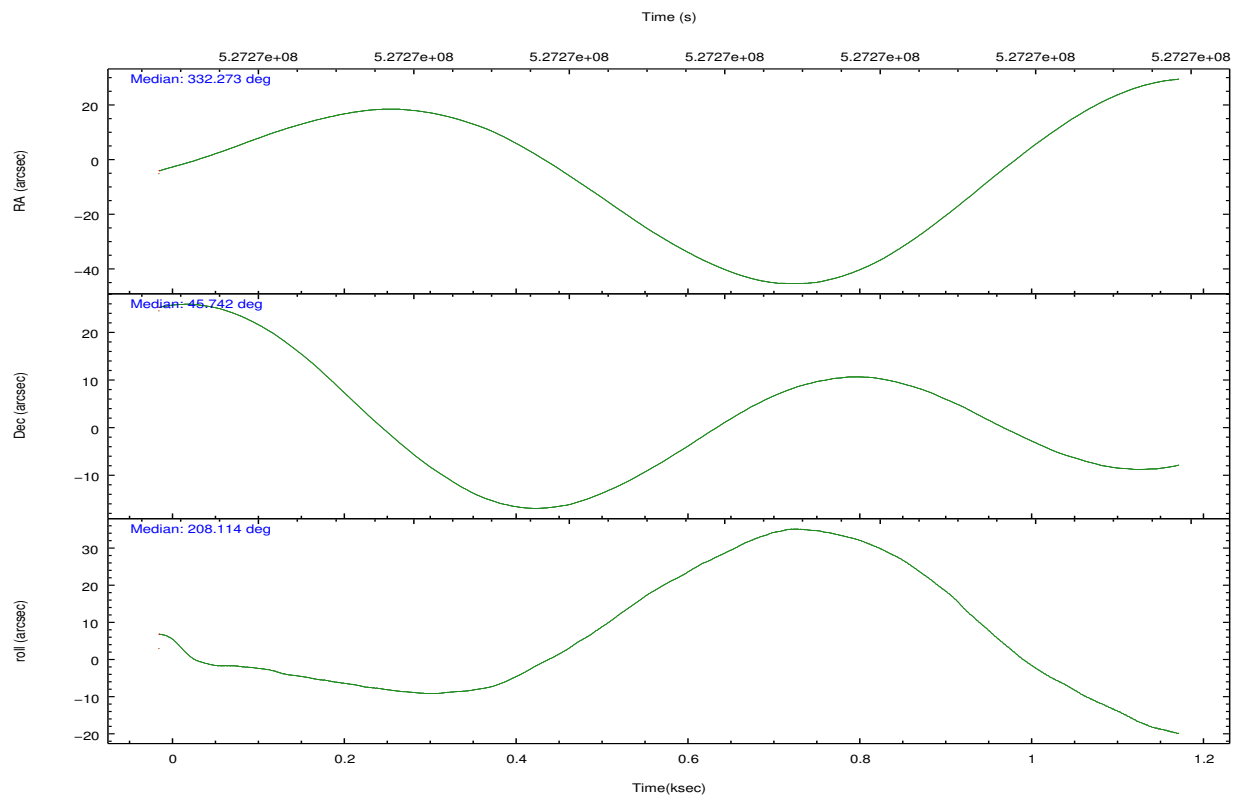
## 2.2 Compared Parameters

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	332.290665	332.2711470776277
[deg] Pointing Dec	45.767189	45.74207821650334
[deg] Pointing Roll	208.033819	208.1151725735492
[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)	527270508.184000	527270131.72827
Observation start date	2014-09-16T16:00:41	2014-09-16T15:55:31
[s] Observation end time (MET)	527271508.184000	527271642.06585
Observation end date	2014-09-16T16:17:21	2014-09-16T16:20:42

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

## 2.3 Aspect





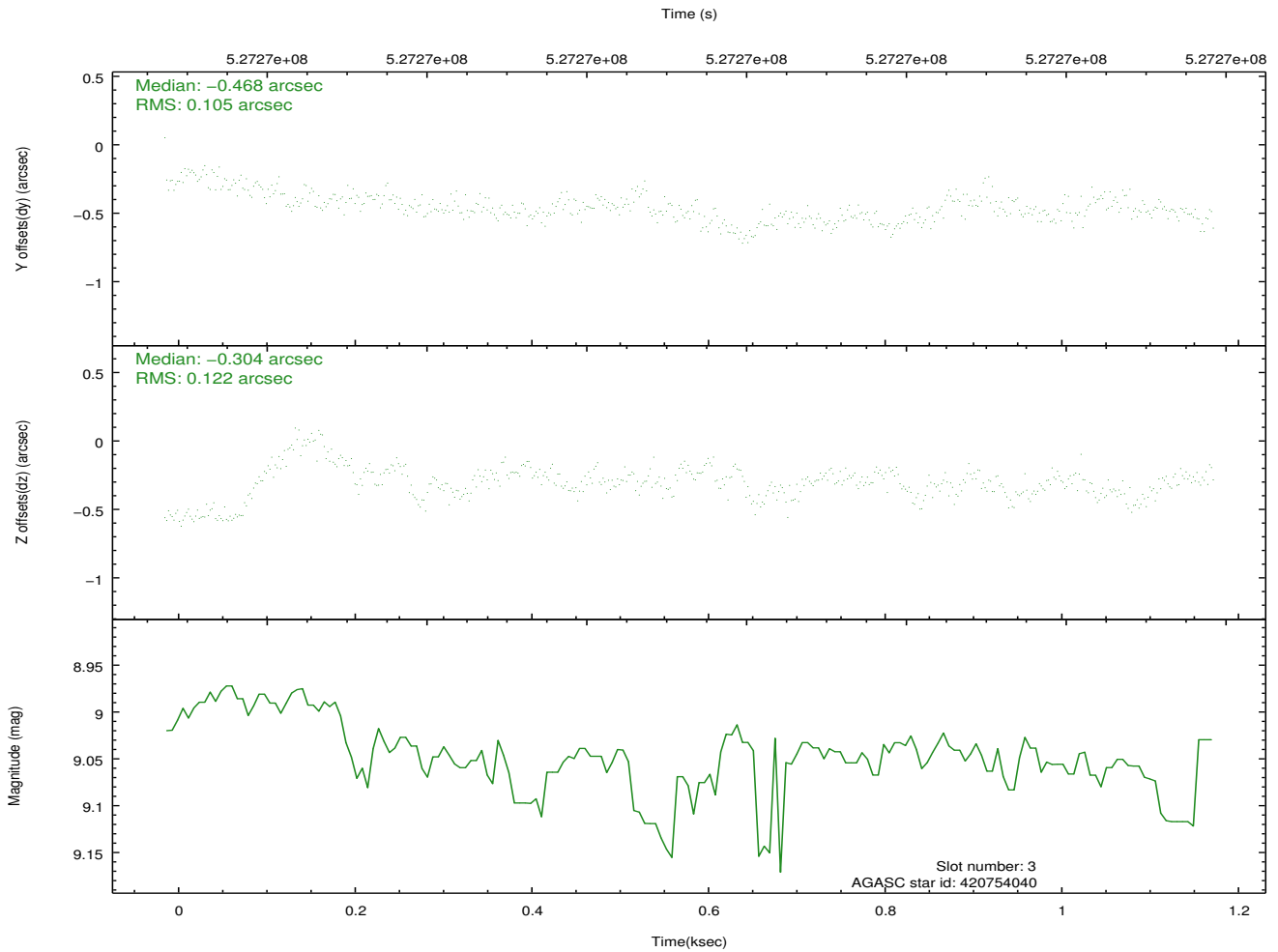
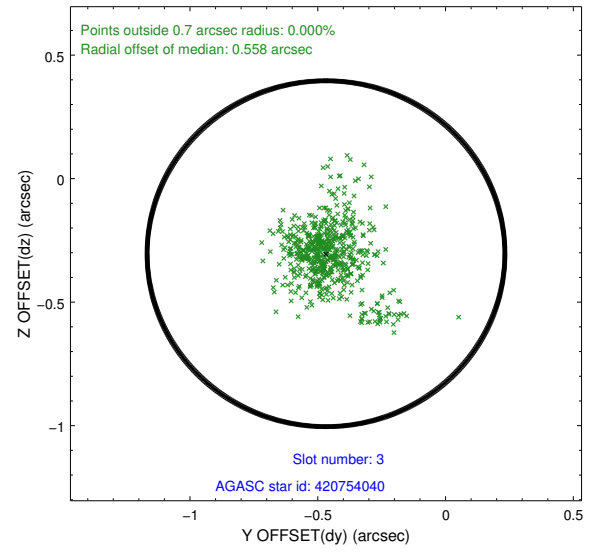
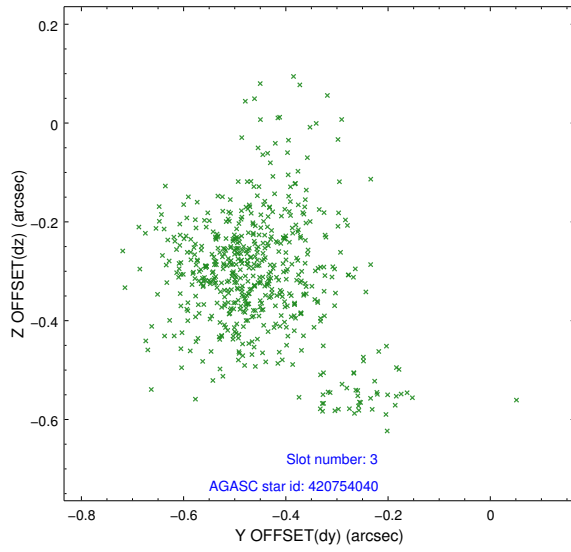
### Slot Statistics

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	-0.003	-0.215	0.005	0.010	0.000000	0.000000	-1183.55	-469.05
1	FID	HRC-S-2	7.03	290	0.346	-0.135	0.004	0.007	0.000000	0.000000	1212.38	-463.11
2	FID	HRC-S-3	7.07	290	0.047	0.049	0.006	0.011	0.000000	0.000000	-1182.09	559.14
3	GUIDE	420754040	9.05	580	-0.468	-0.304	0.149	0.329	331.917939	44.882543	2334.84	2362.19
4	GUIDE	472523760	8.23	580	-0.309	-0.231	0.115	0.196	331.645363	45.403260	2058.19	387.76
5	GUIDE	472663080	9.39	579	0.395	0.278	0.172	0.274	332.652741	46.473840	-1983.15	-1824.55
6	GUIDE	472665256	8.98	579	0.298	0.091	0.104	0.187	332.808125	46.195041	-1865.32	-760.35
7	GUIDE	472659832	9.43	579	0.069	0.157	0.159	0.254	332.780399	46.098139	-1642.08	-481.61

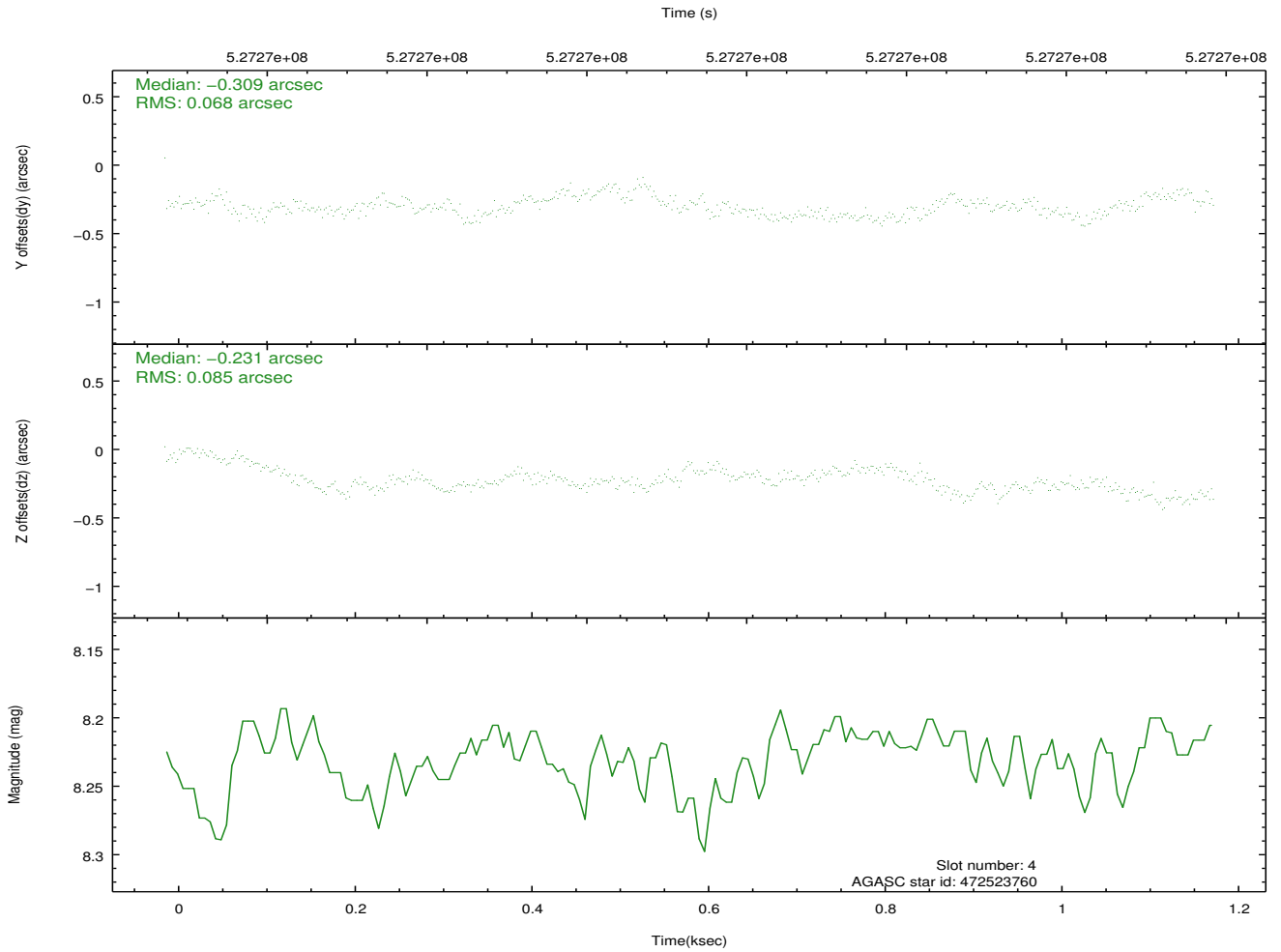
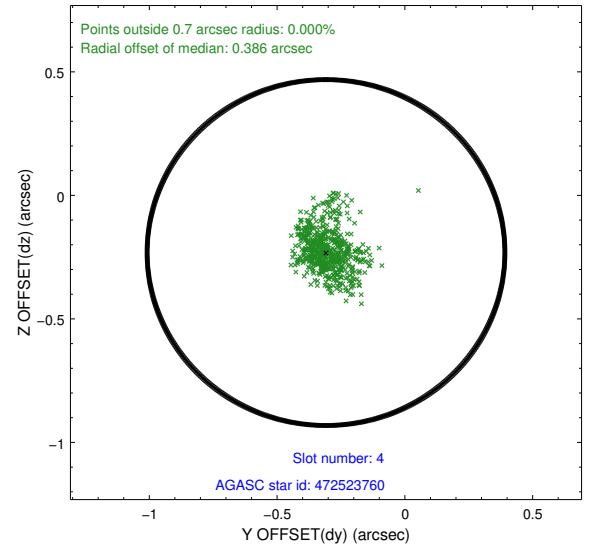
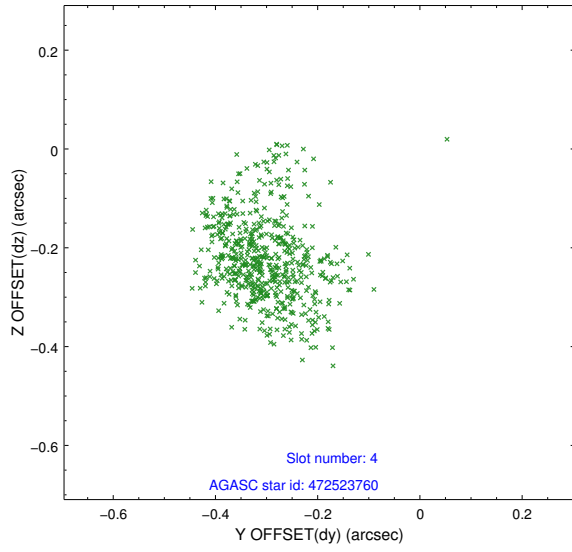


## 2.4 Star Slots

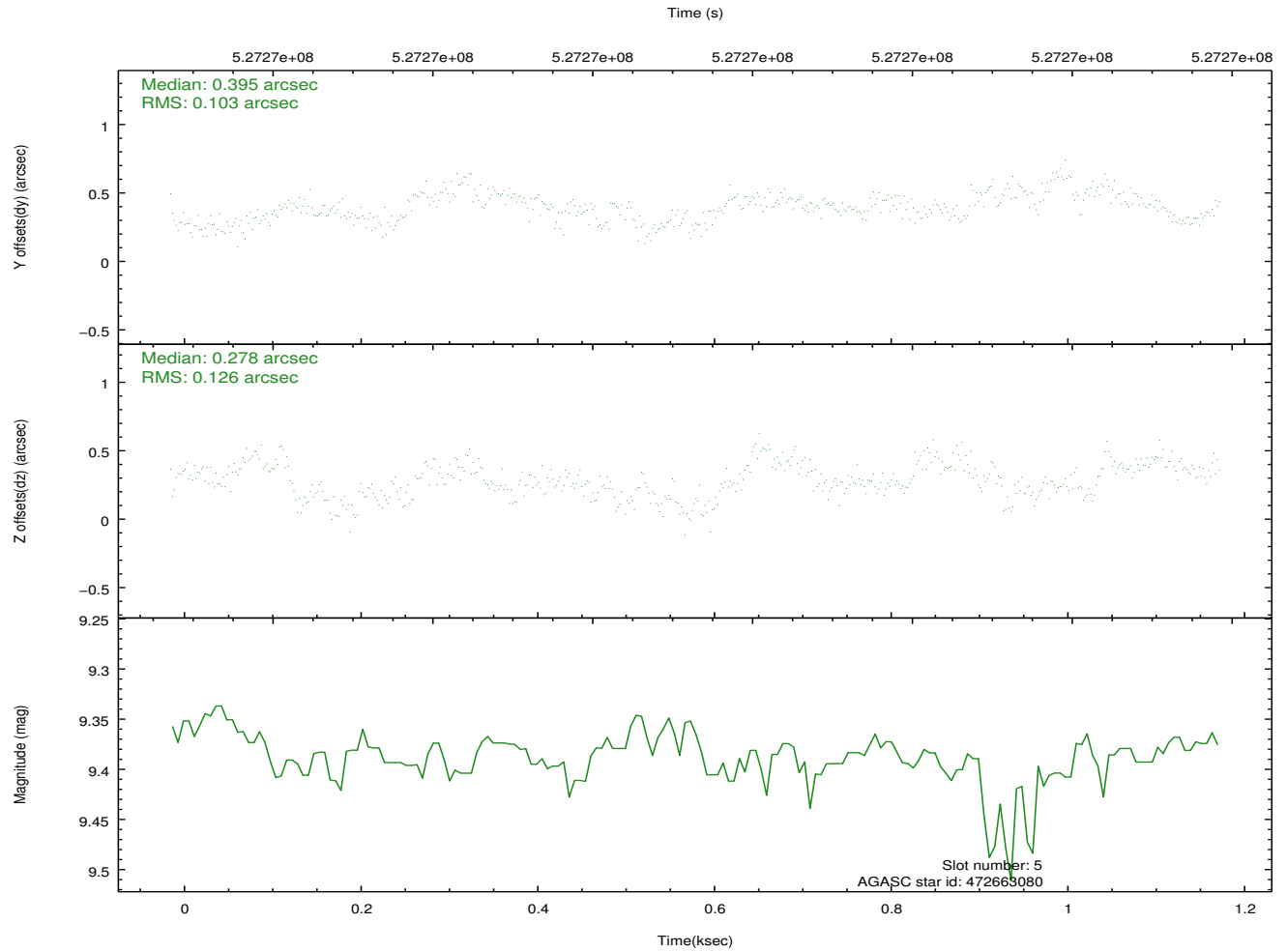
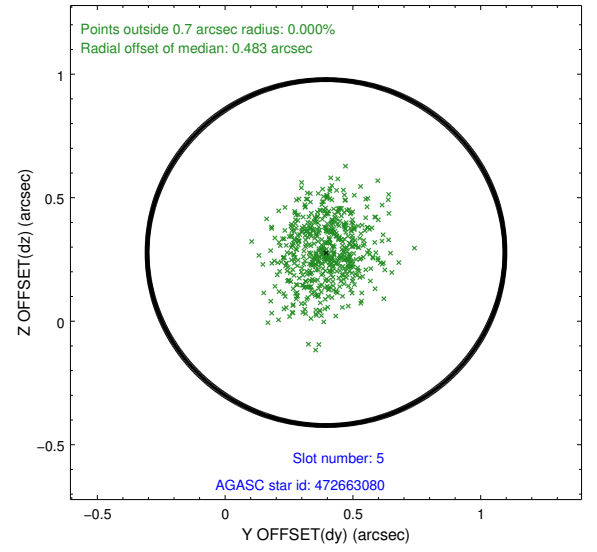
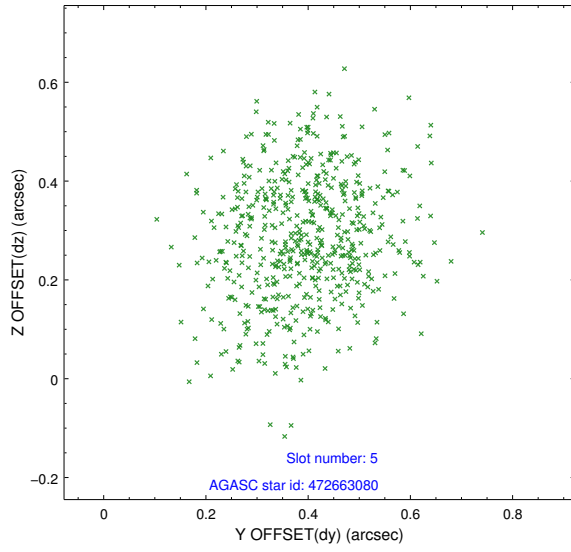
### 2.4.1 Slot 3



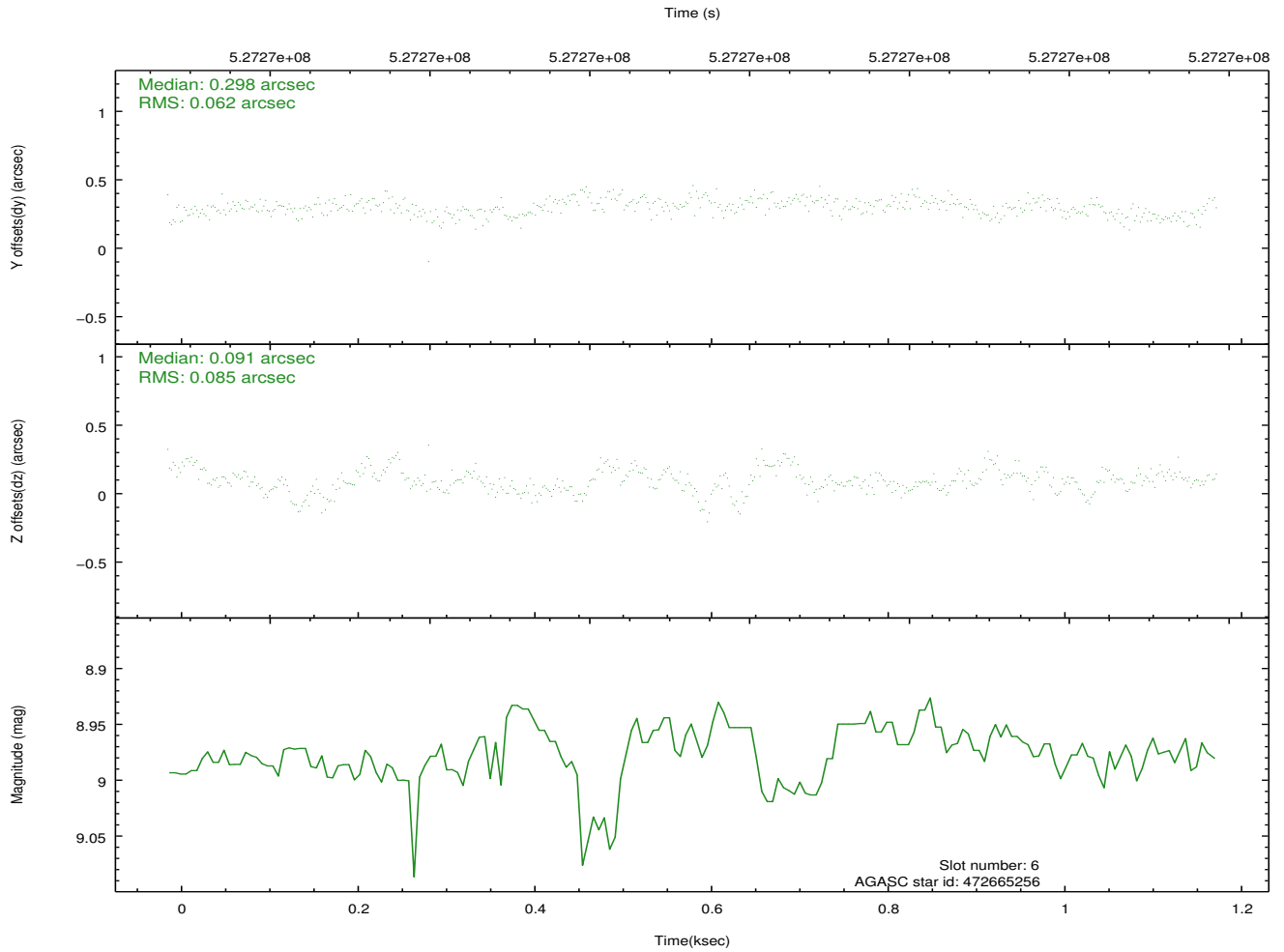
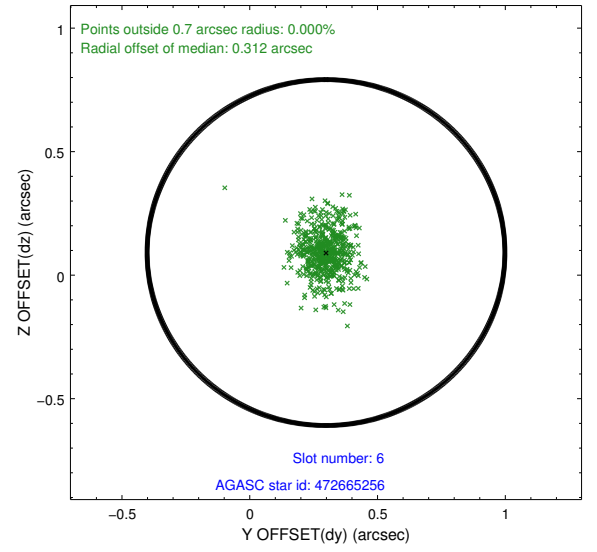
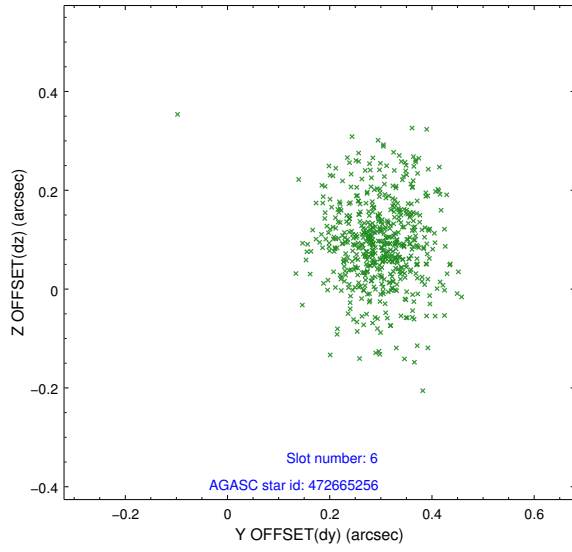
## 2.4.2 Slot 4



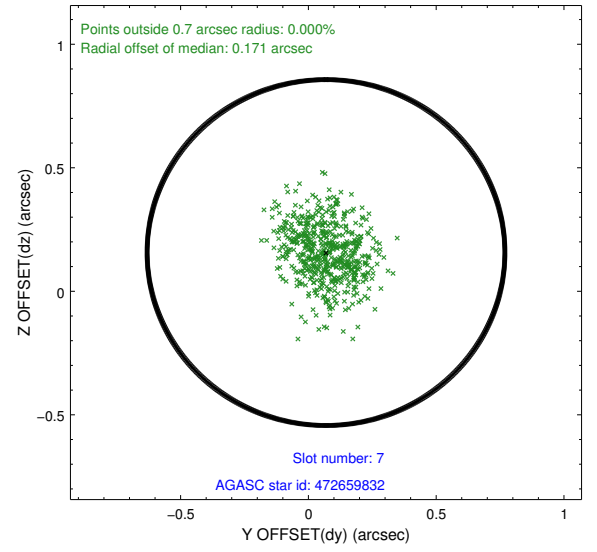
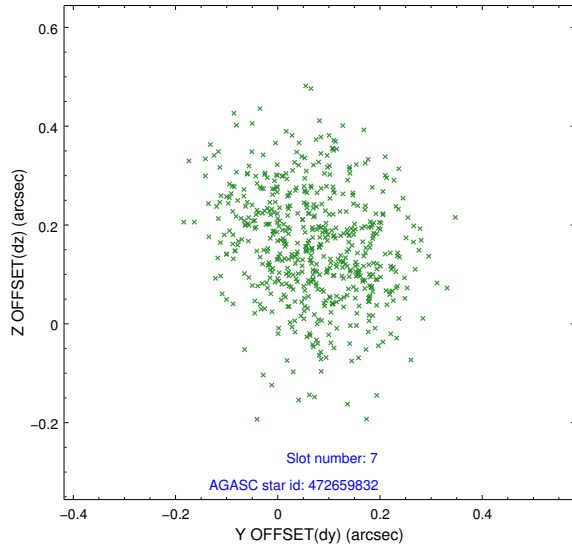
### 2.4.3 Slot 5



## 2.4.4 Slot 6

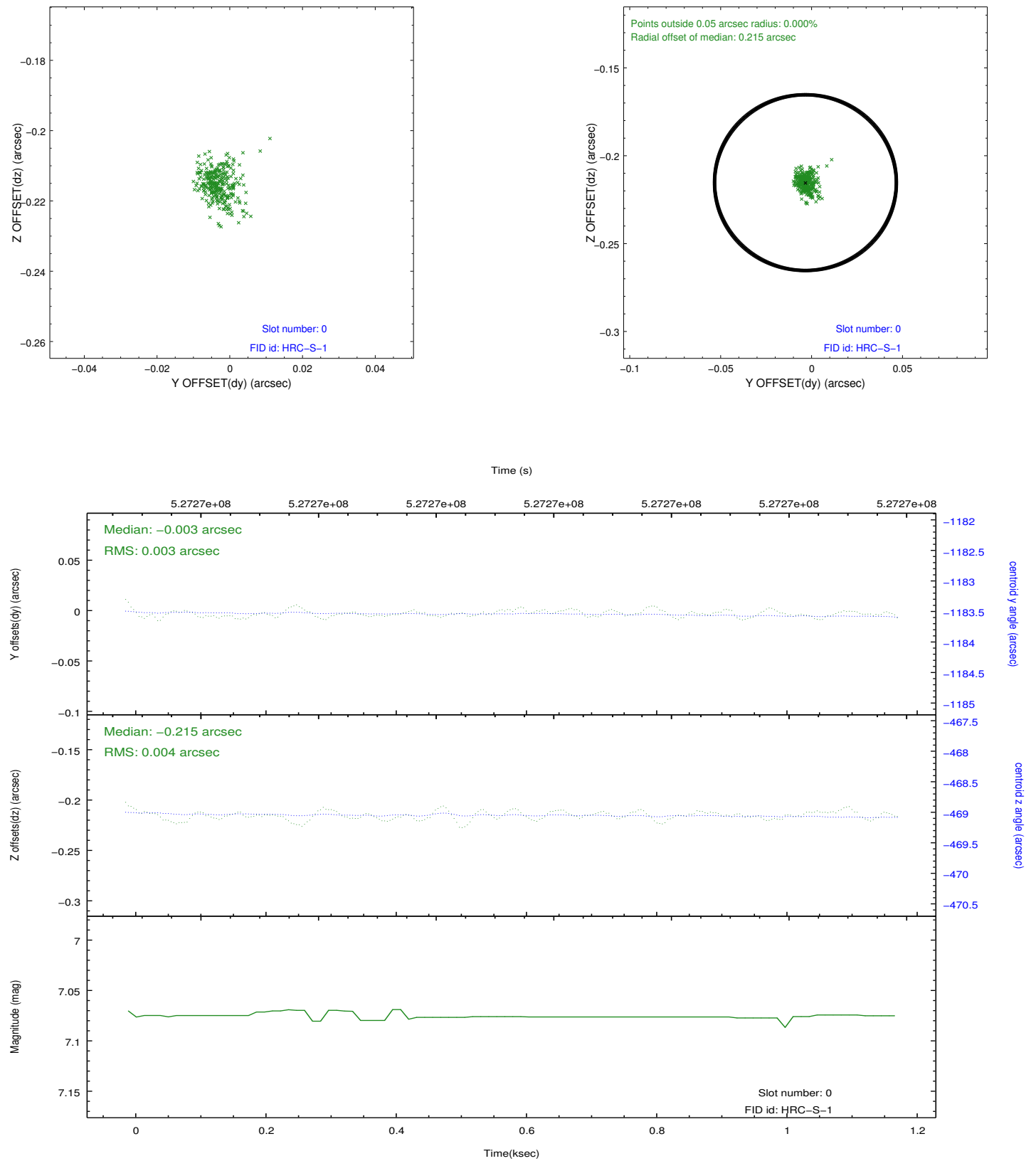


## 2.4.5 Slot 7

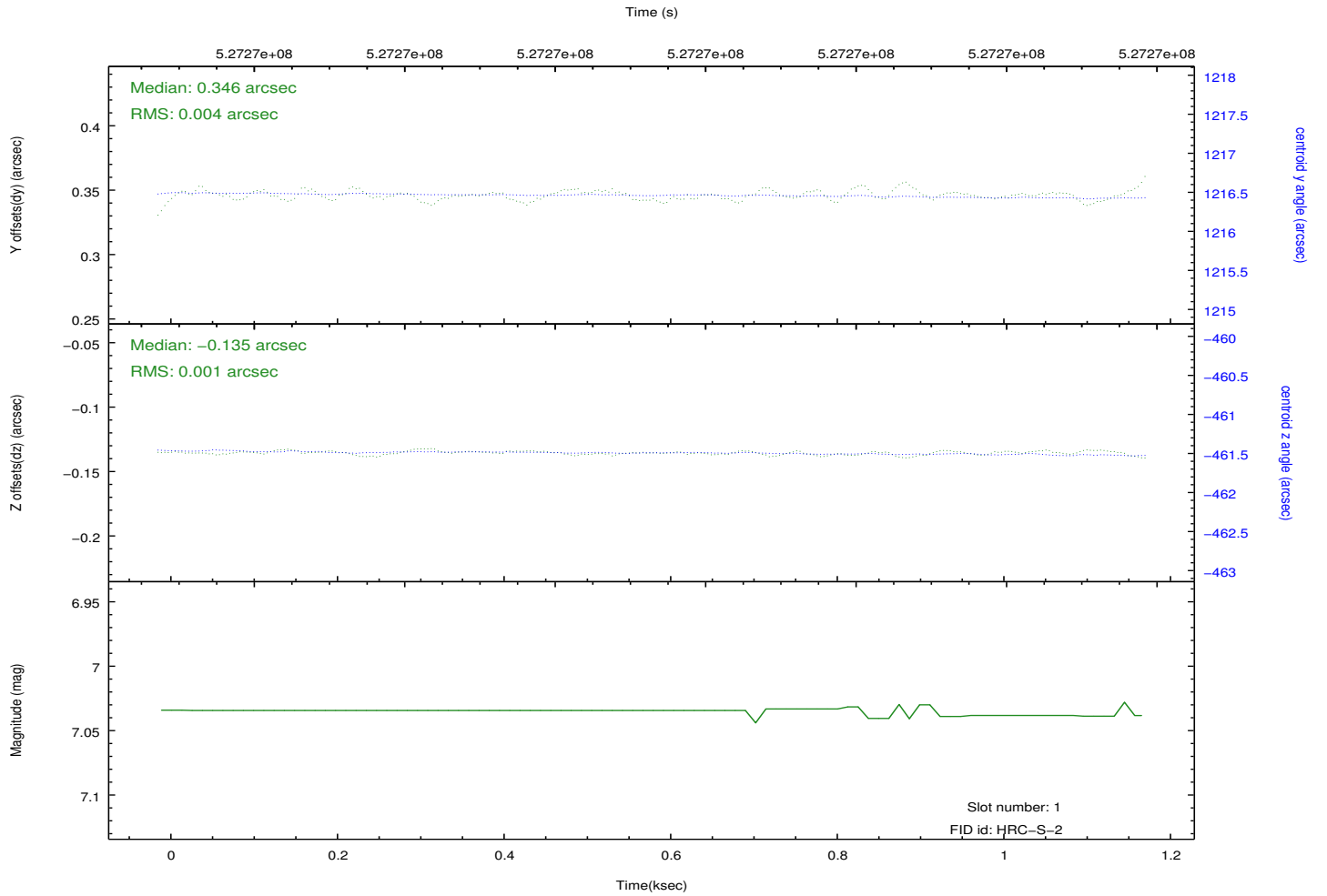
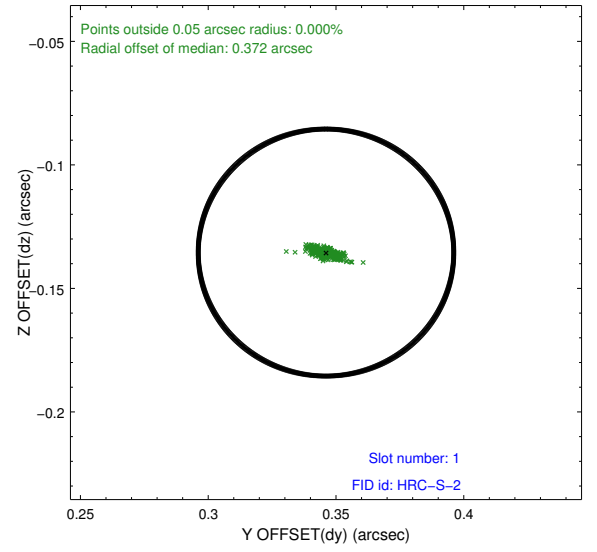
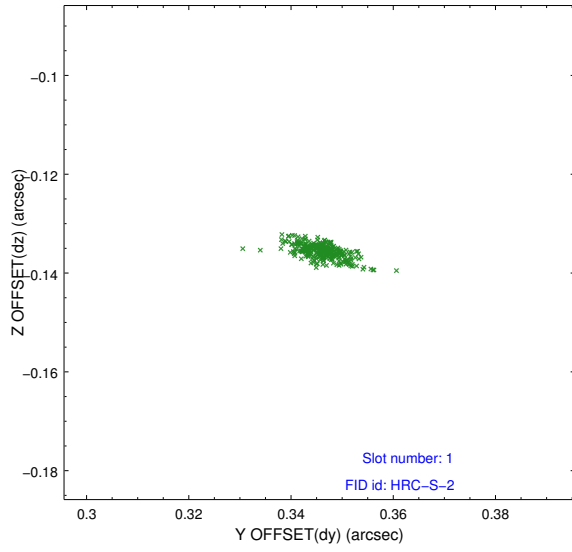


## 2.5 FID Slots

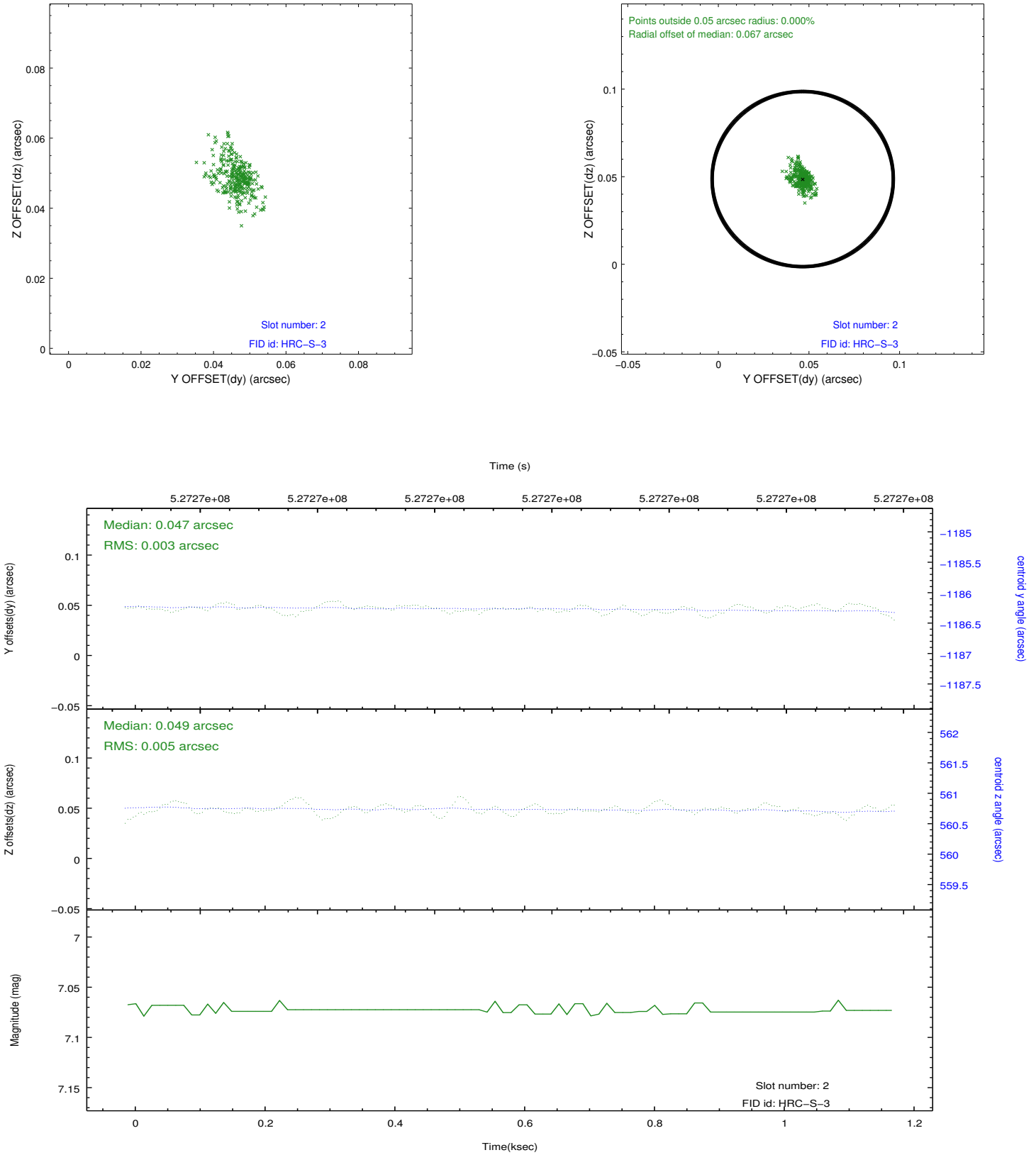
### 2.5.1 Slot 0



## 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)	2014.09.17
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.1574813143015

### A.2 Comments