

# V&V Reference Report

## L2 ASCDS Version : 10.7.1

Observation 21765 - L2 Version 1  
Chandra X-Ray Center

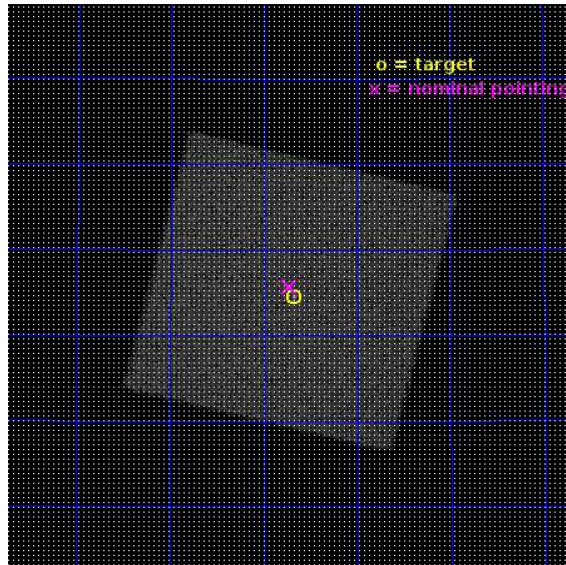
L2 Processing Date : Apr 8 2019

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# 1 Front

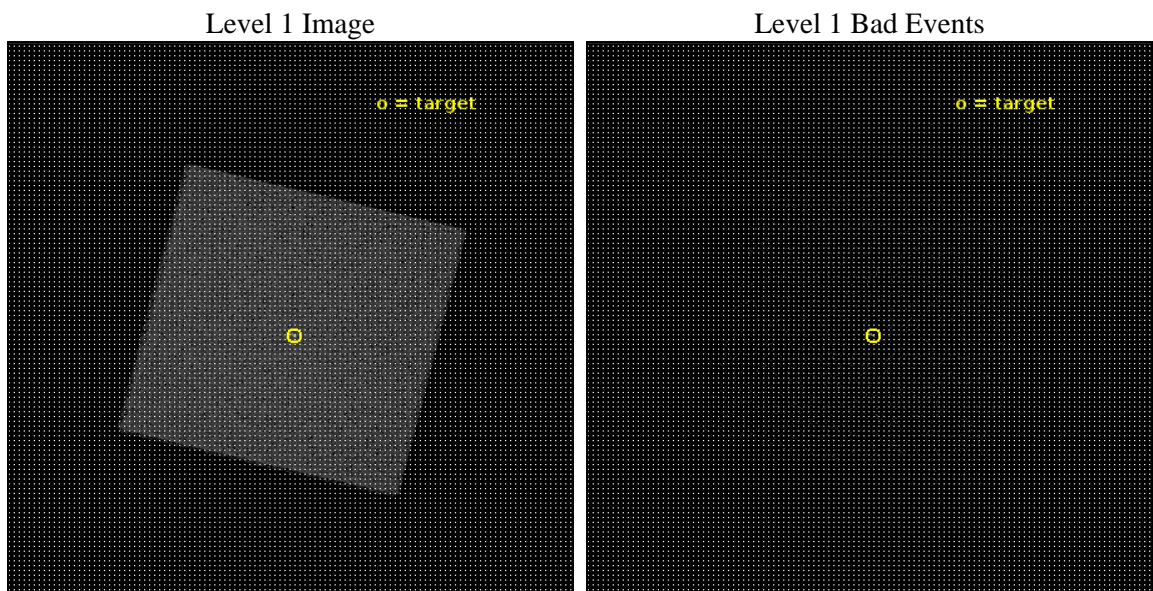
seq_num	291451	Sequence number
obs_id	21765	Observation id
title	AO-20 Calibration Observations to Monitor the Spatial Variations in the HRC-I Gain	Proposal title
observer	CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.169666	Observer's specified target RA [deg]
dec_targ	45.742509	Observer's specified target Dec [deg]
ra_nom	332.18120238958	Nominal RA [deg]
dec_nom	45.761759135926	Nominal Dec [deg]
roll_nom	58.878963310463	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1190.2813212872	[s]
livetime	1172.5520357486	Ontime multiplied by DTCOR
l2events	153337	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	10.7.1	Processing system revision	ontime	1190.2813212872	[s]
caldbver	4.8.2	&#160	l1events	254551	Number of level 1 events
date	2019-04-08T22:58:14	Date and time of file creation			
revision	1	Processing version of data			

### 2.1.3 Events

#### Level 1 Events

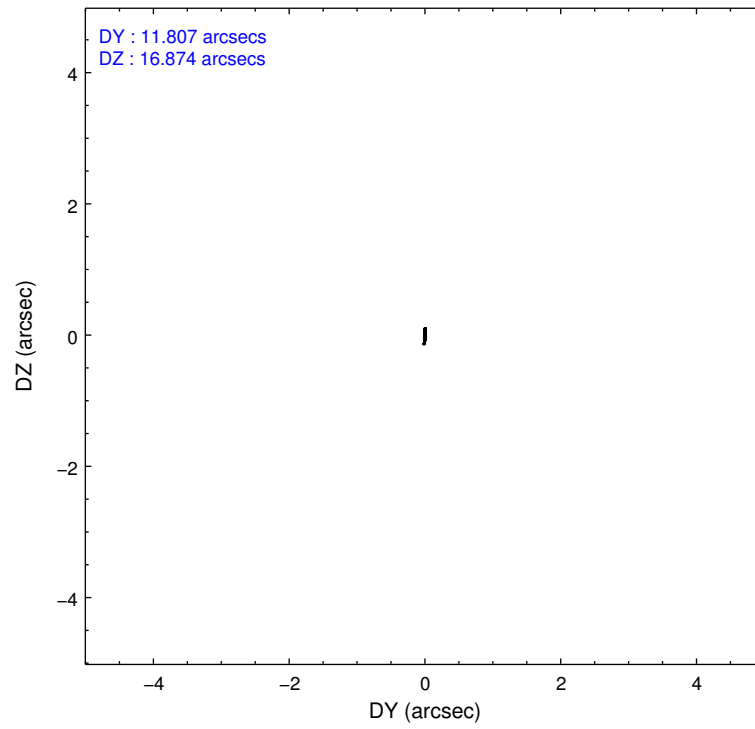
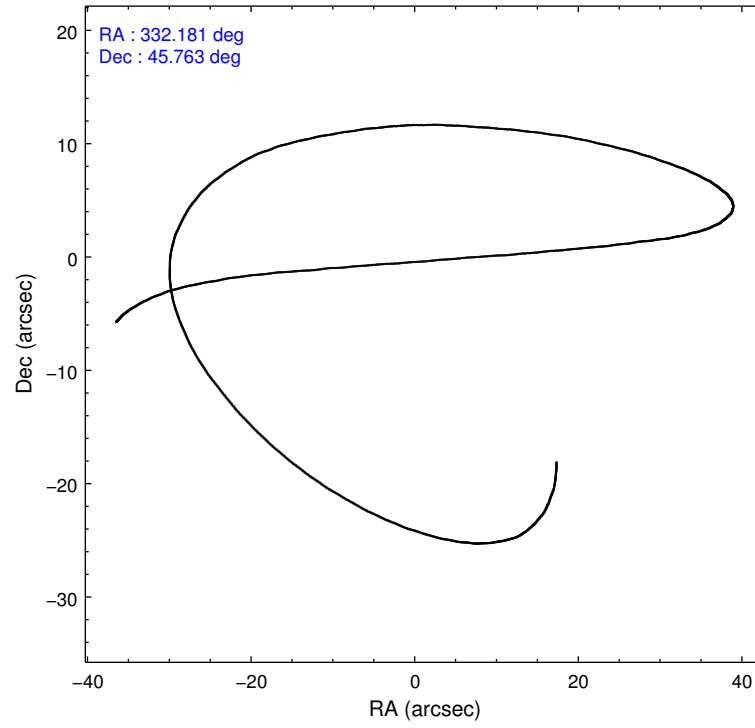
	<b>segment 0</b>
level 1 events	254551
rejected events	54533
rejected %	21%

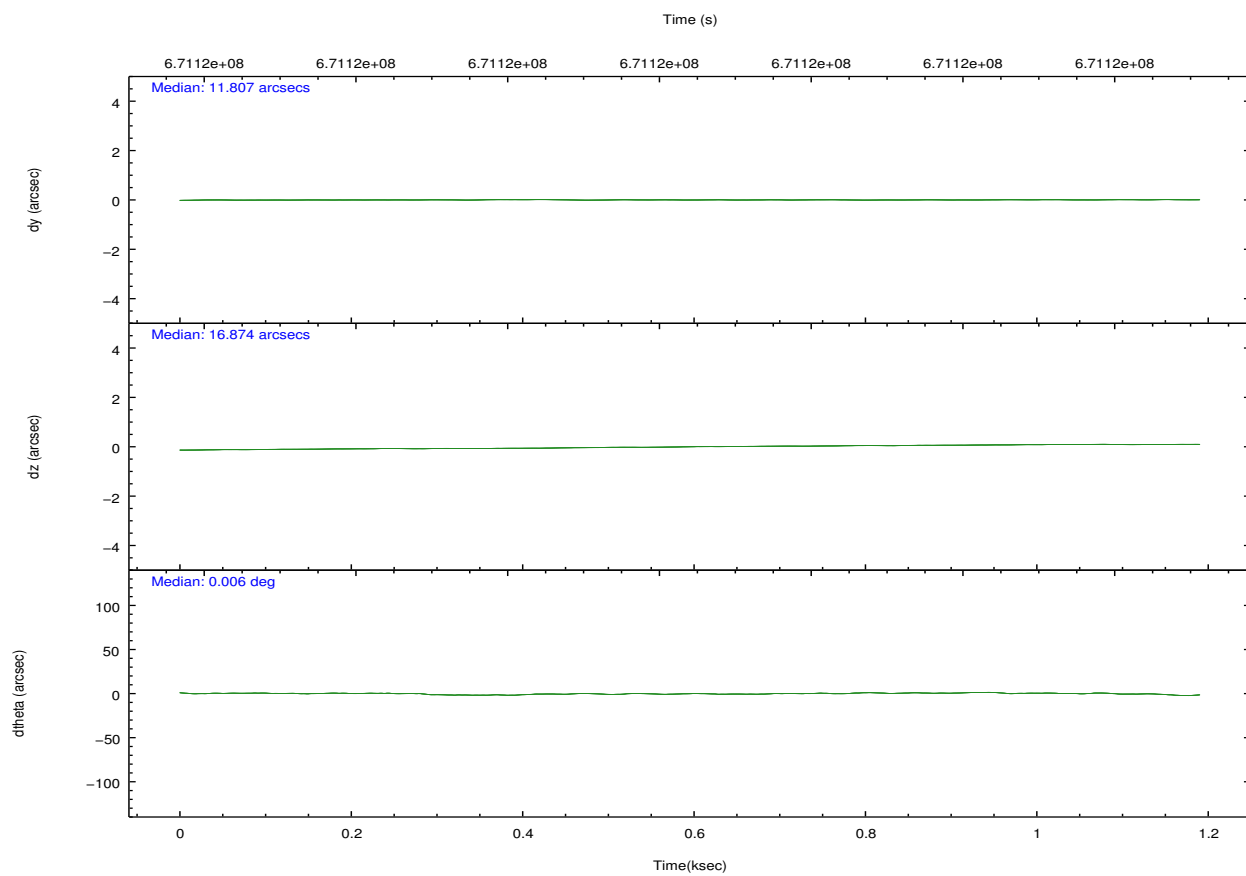
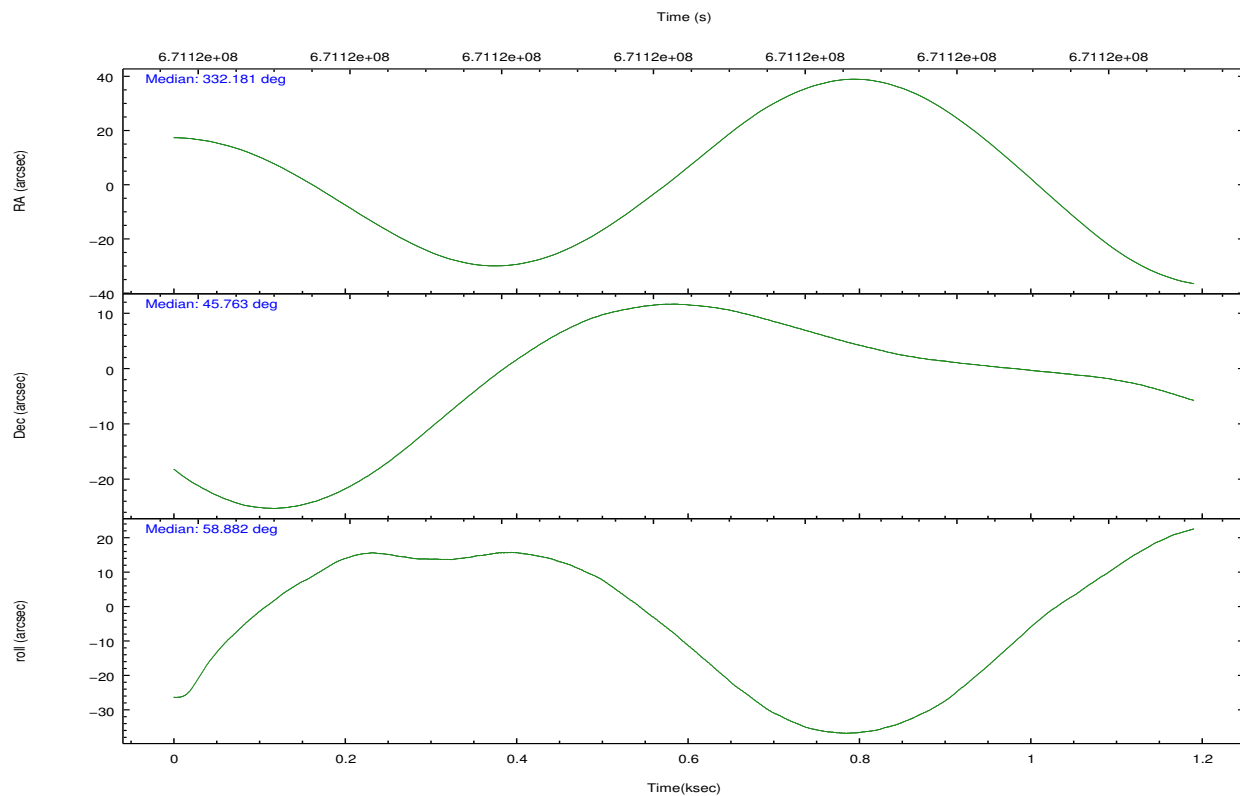
## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	HRC	HRC
Detector	HRC-I	HRC-I
Grating	NONE	NONE
Data mode	OBSERVING	OBSERVING
Observation mode	POINTING	POINTING
[deg] Pointing RA	332.181310	332.1812023895758
[deg] Pointing Dec	45.734822	45.76175913592648
[deg] Pointing Roll	58.974407	58.8789633104631
[mm] SIM focus pos	-1.040293	-1.038866356238299
[mm] SIM defocus	0	0.001426264420575141
[mm] SIM translation stage pos	126.985494	126.9829799899862
[mm] SIM translation stage offset	0	0.002508901615314585
[s] Observation start time (MET)	671119434.184000	671119057.5035
Observation start date	2019-04-08T14:02:45	2019-04-08T13:57:37
[s] Observation end time (MET)	671120434.184000	671120567.32859
Observation end date	2019-04-08T14:19:25	2019-04-08T14:22:47

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

## 2.3 Aspect





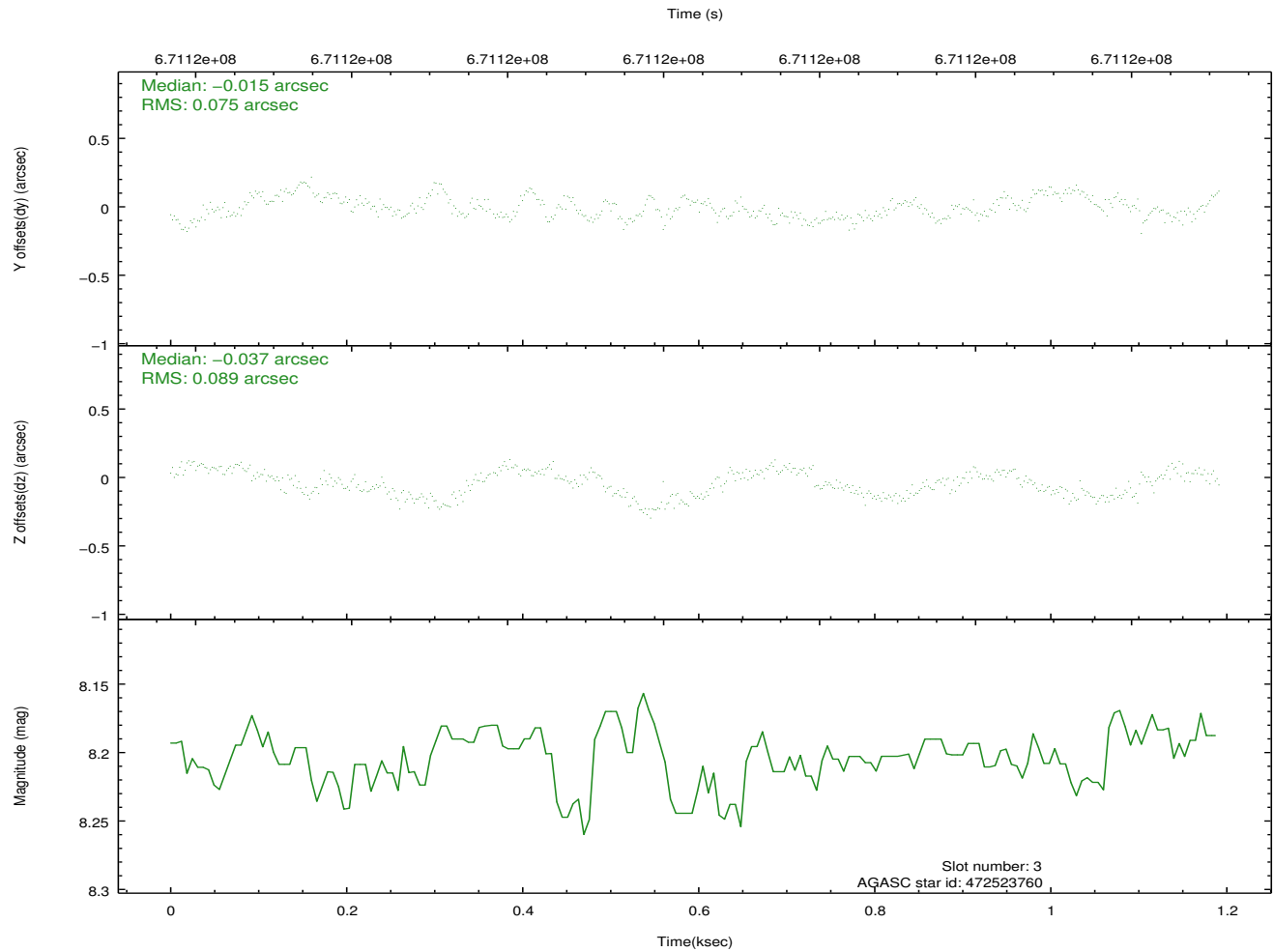
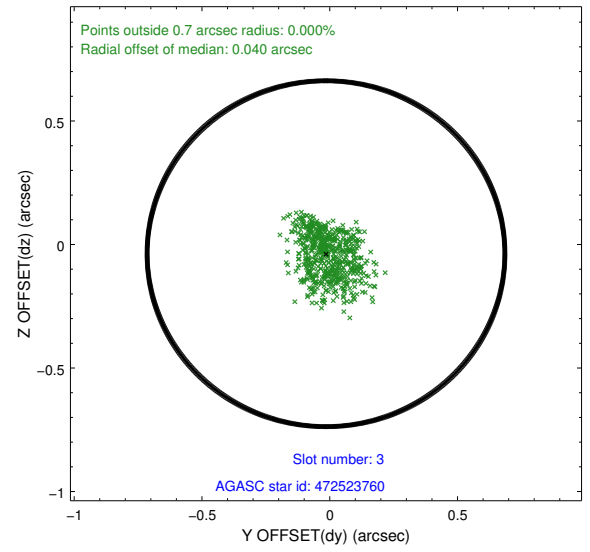
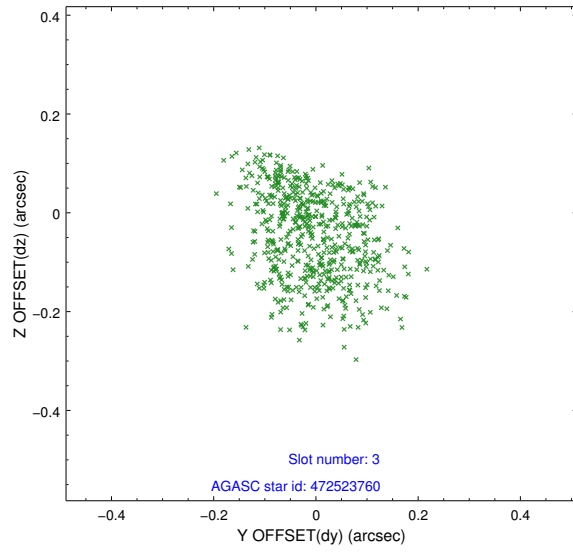
Slot Statistics

pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		HRC-I-1	7.02	291	1.000	-0.254	-0.013	0.008	0.016	0.000000	0.000000	-767.72	-1305
1	FID		HRC-I-2	7.03	291	1.000	0.416	-0.130	0.009	0.028	0.000000	0.000000	842.94	-1311
2	FID		HRC-I-3	7.09	291	1.000	-0.044	0.052	0.008	0.022	0.000000	0.000000	-1193.18	995
3	GUIDE	used	472523760	8.20	581	1.000	-0.015	-0.037	0.124	0.197	331.645363	45.403260	-1716.11	549
4	GUIDE	used	472525528	6.62	582	1.000	0.054	-0.098	0.140	0.219	331.551102	45.248694	-2318.94	471
5	GUIDE	used	472533912	9.11	581	1.000	-0.344	-0.477	0.215	0.425	331.791136	46.368695	1455.05	2009
6	GUIDE	used	472665256	8.99	581	1.000	-0.205	0.161	0.177	0.308	332.808125	46.195041	2233.69	-476
7	GUIDE	used	472649352	9.72	580	1.000	0.505	0.485	0.263	0.605	332.034169	45.325407	-1449.10	-439

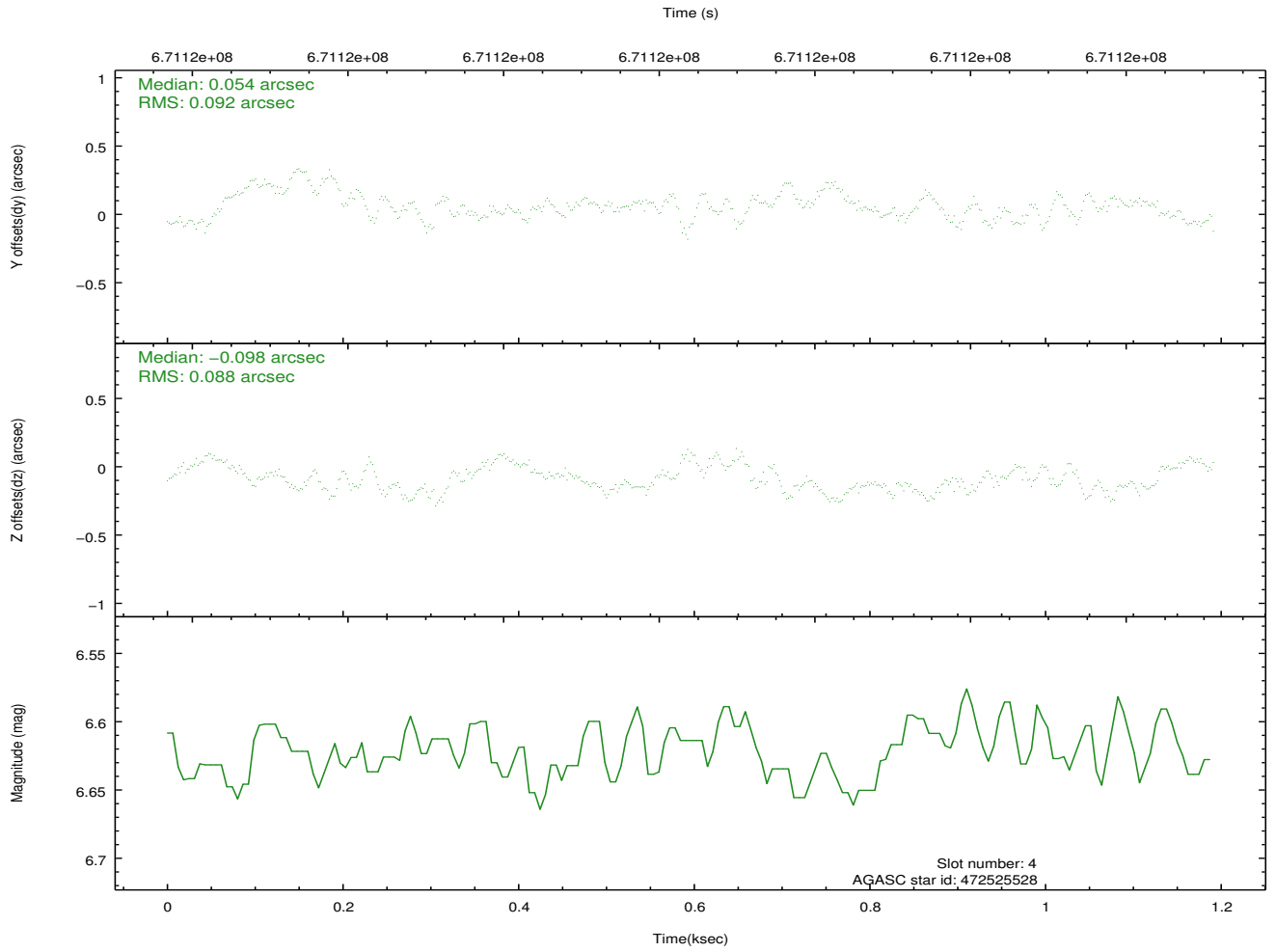
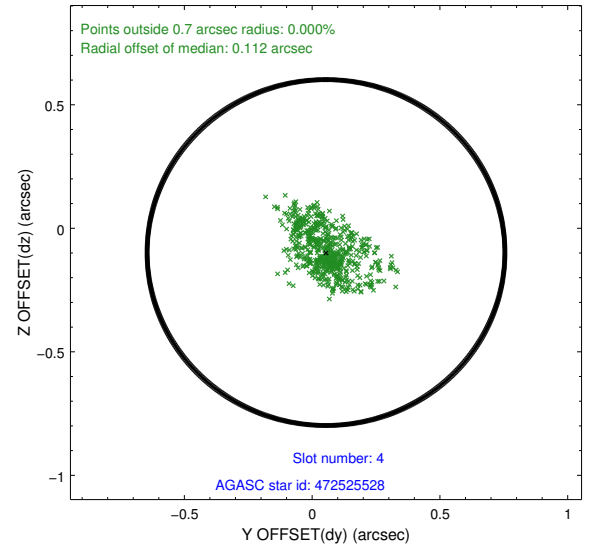
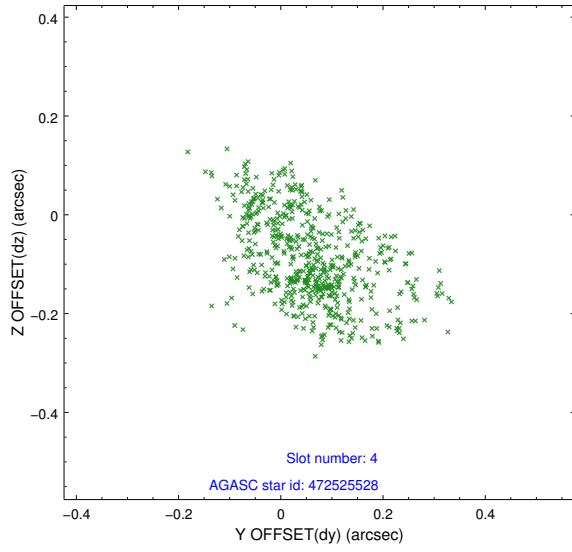


## 2.4 Star Slots

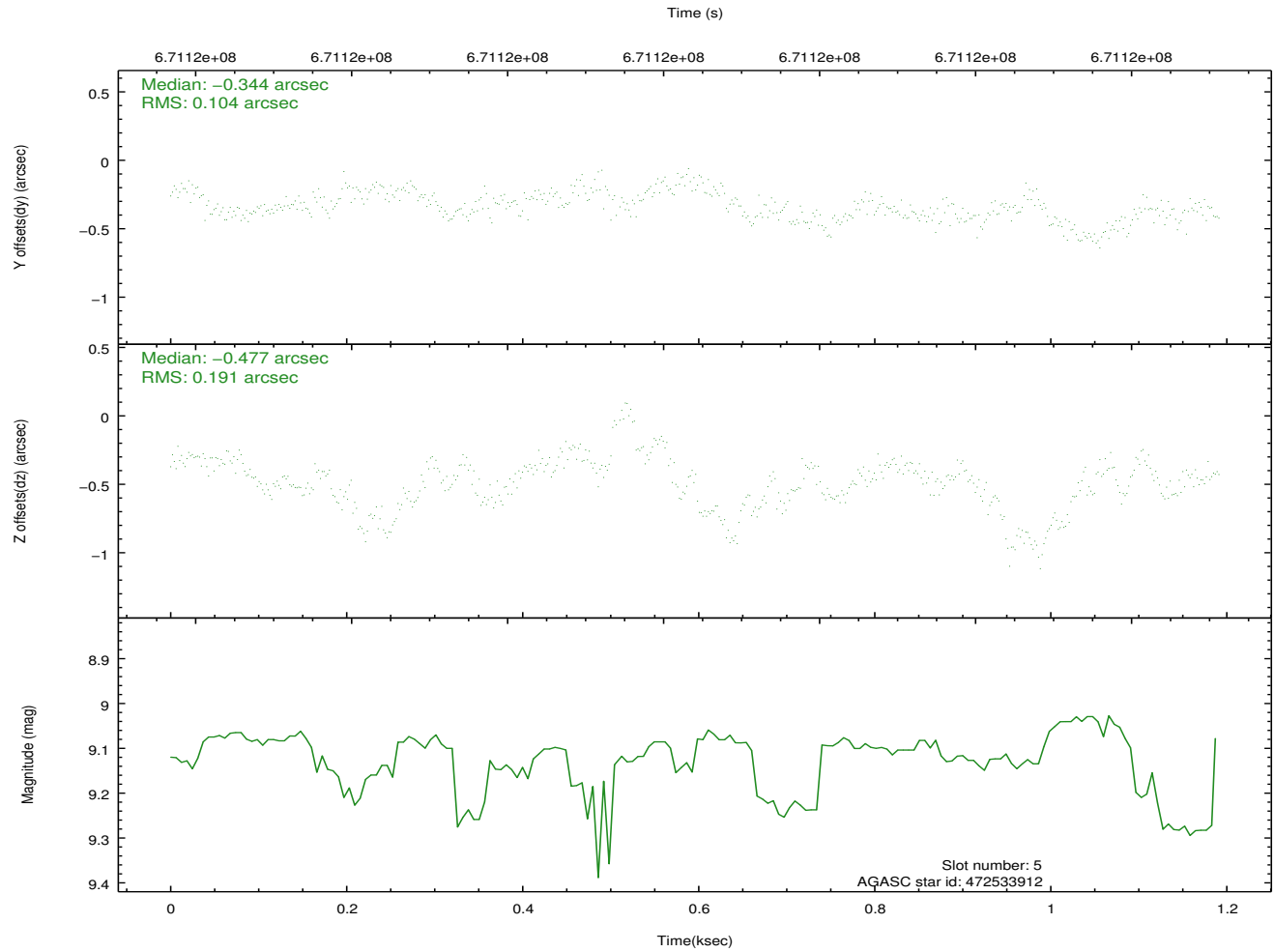
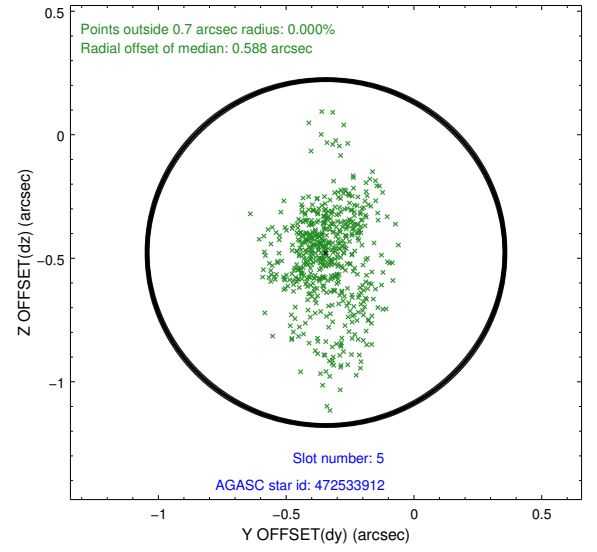
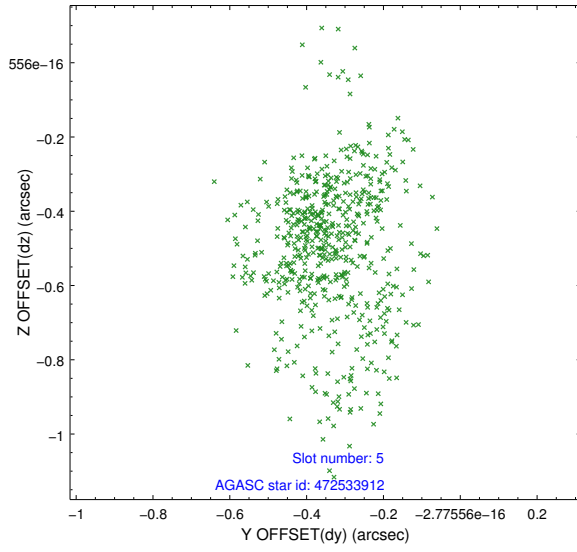
### 2.4.1 Slot 3



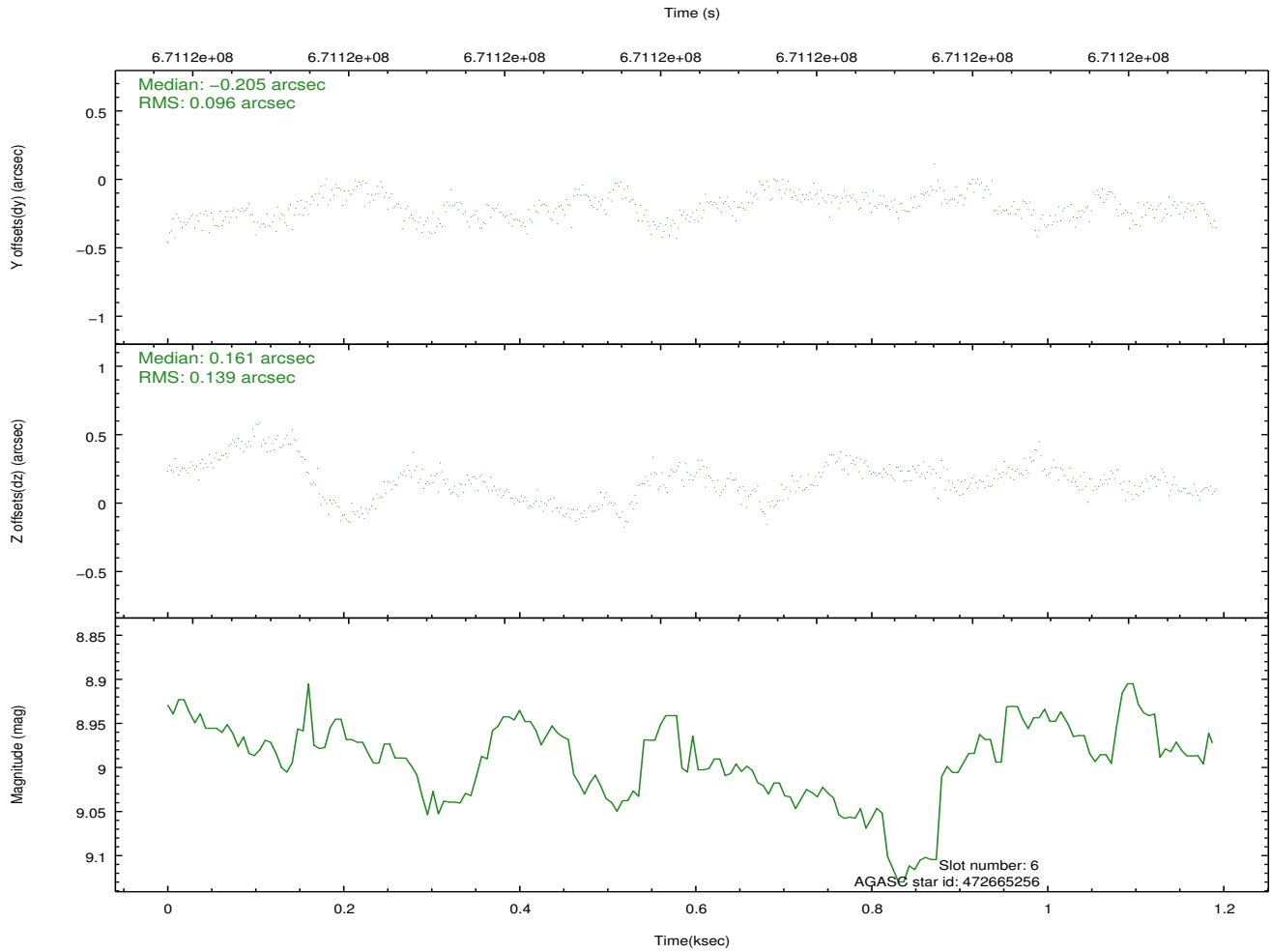
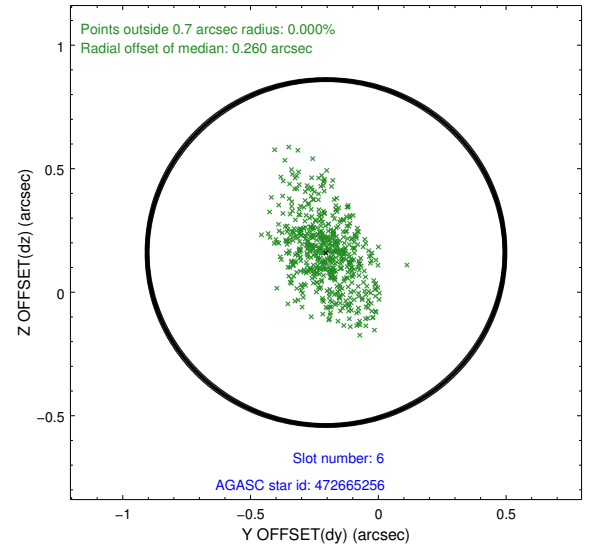
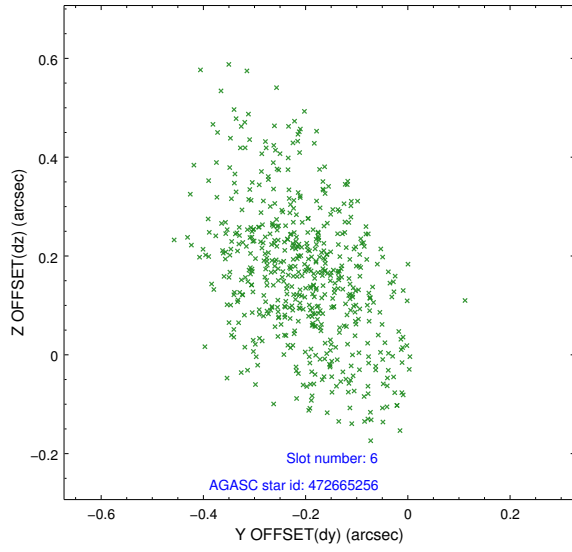
## 2.4.2 Slot 4



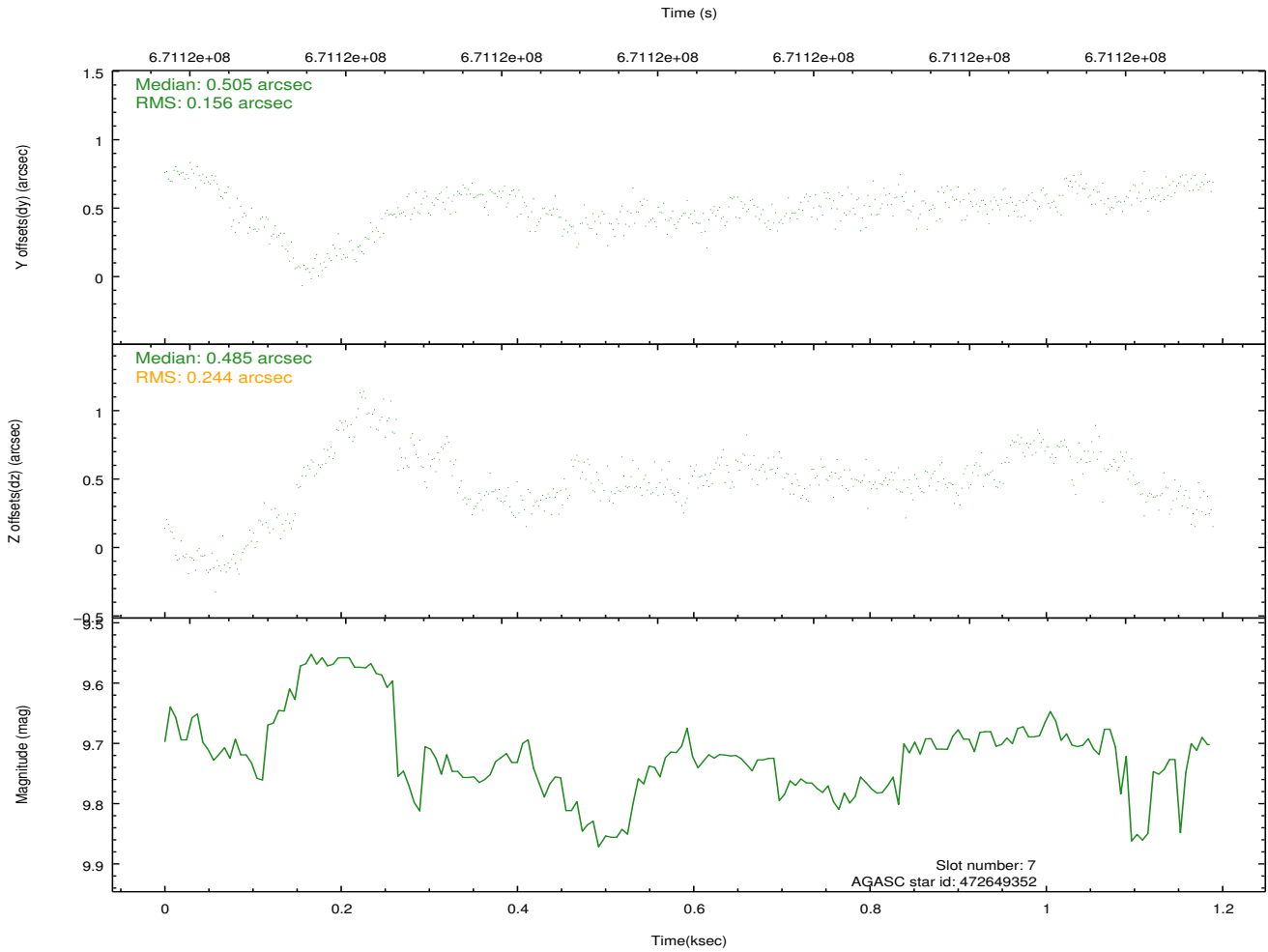
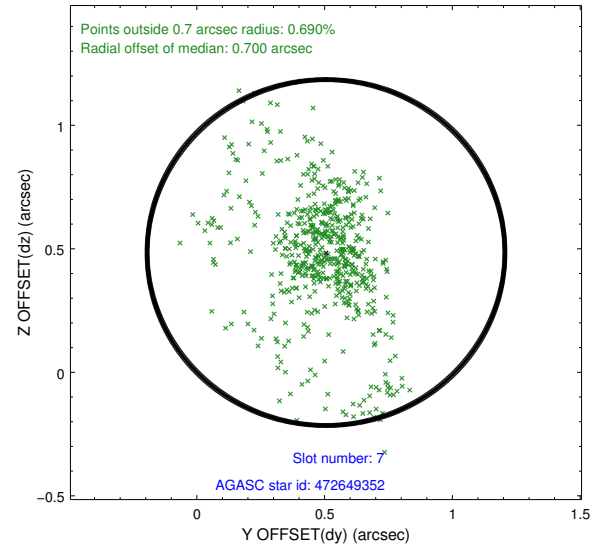
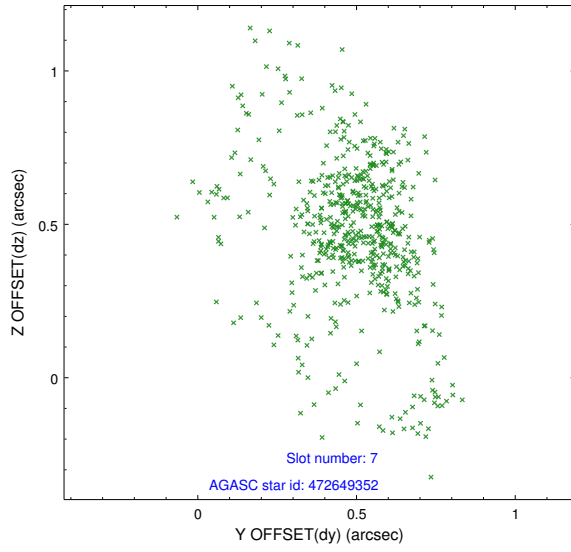
### 2.4.3 Slot 5



## 2.4.4 Slot 6

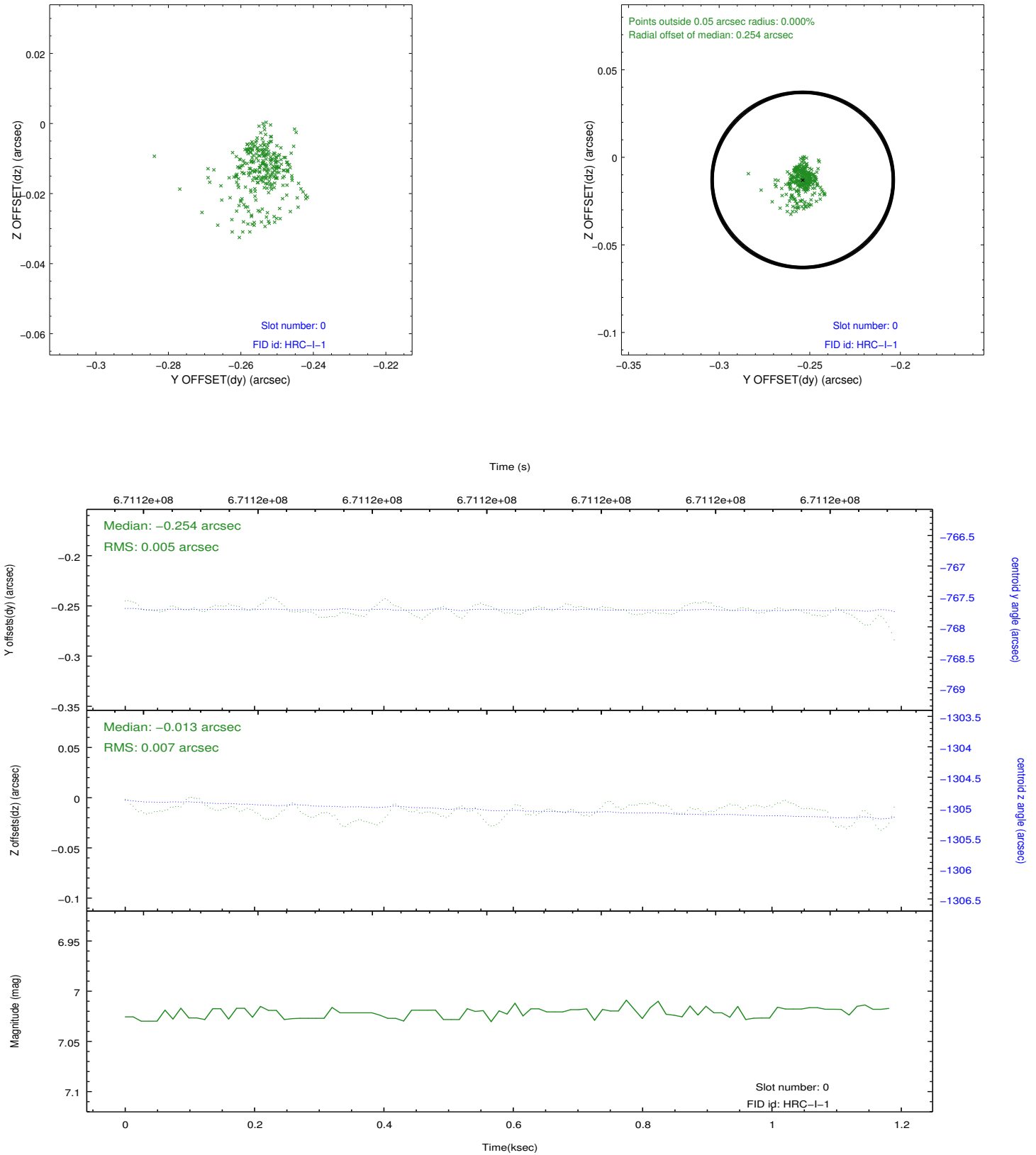


## 2.4.5 Slot 7

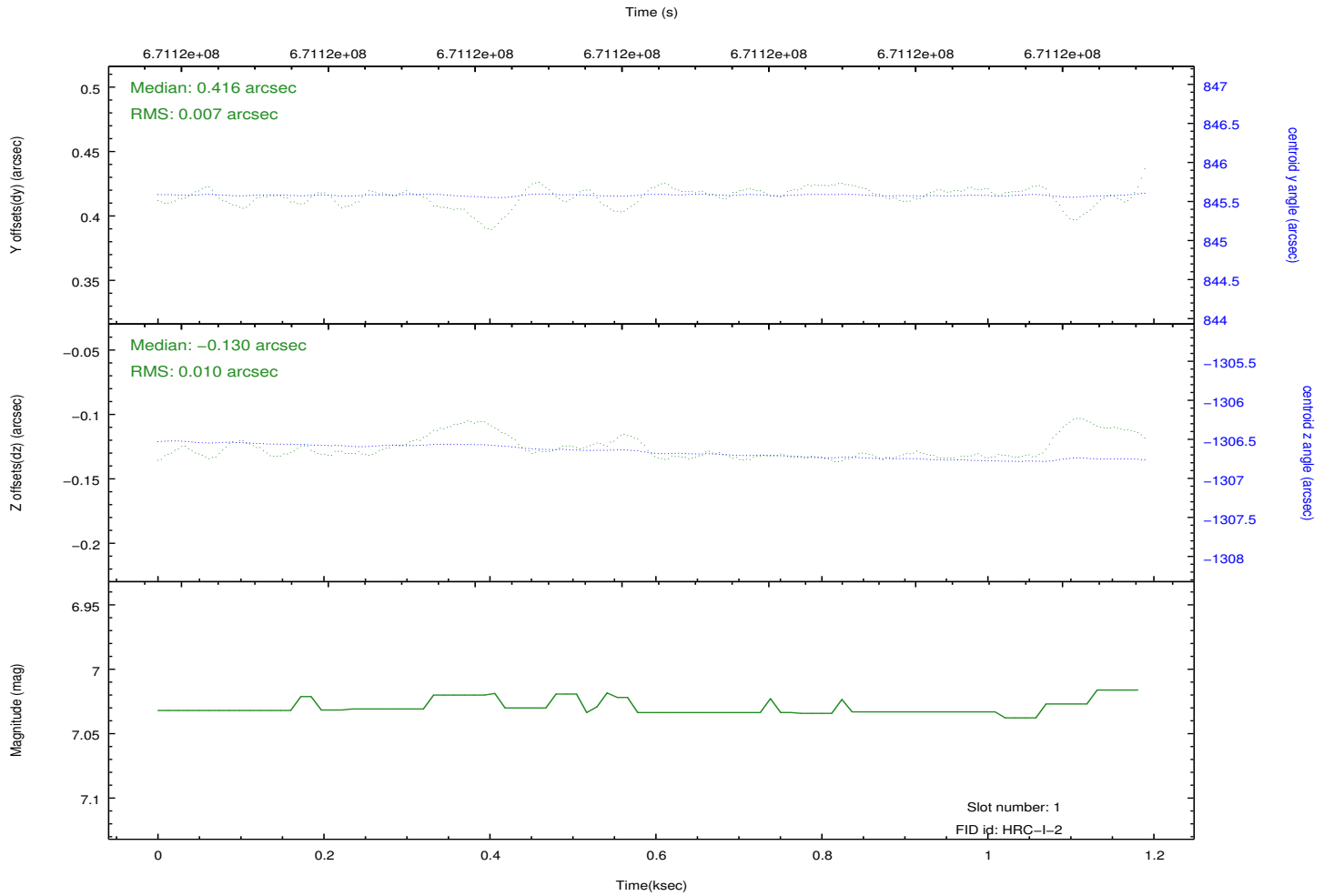
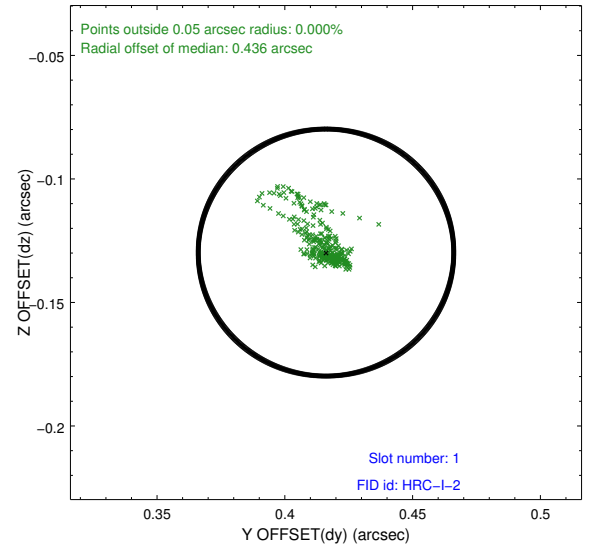
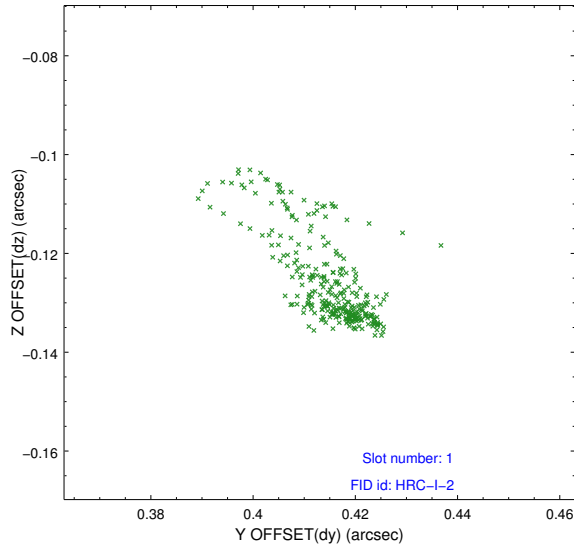


## 2.5 FID Slots

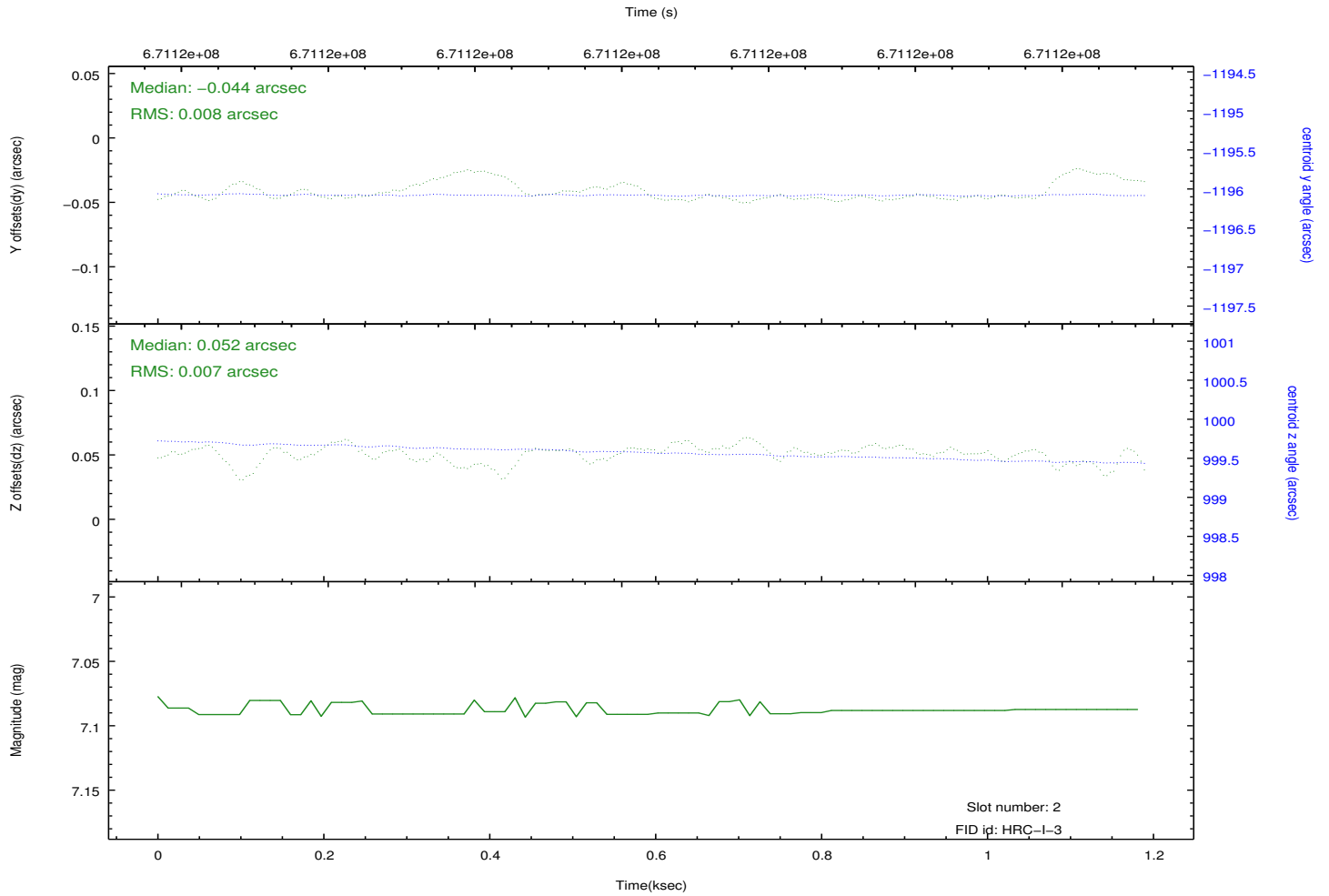
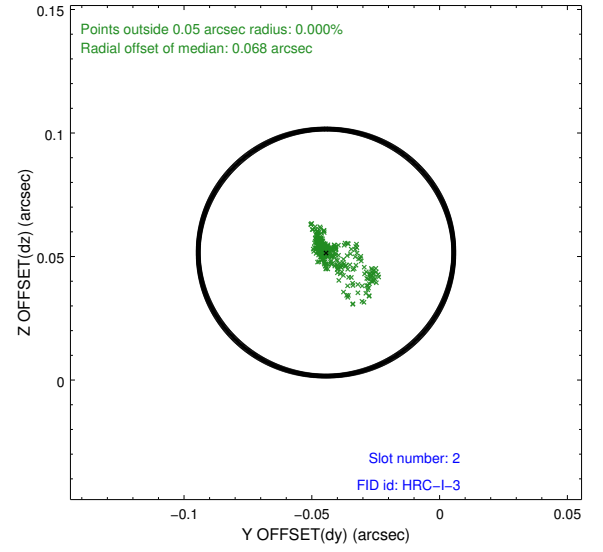
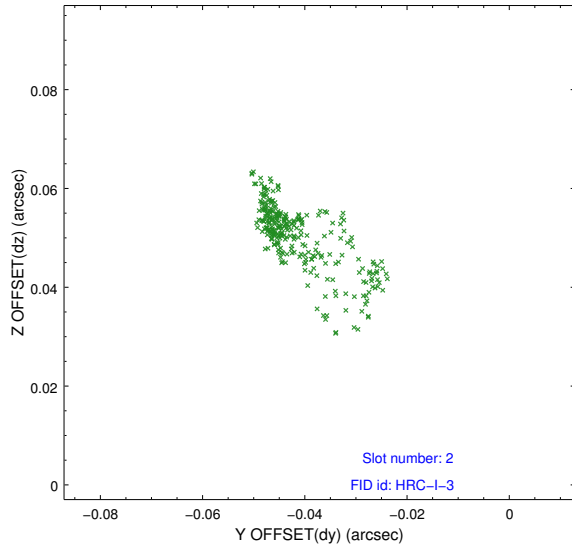
### 2.5.1 Slot 0



## 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)	2019.04.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.1902813212872

### A.2 Comments