

# V&V Reference Report

## L2 ASCDS Version : 10.8

Observation 21743 - L2 Version 1  
Chandra X-Ray Center

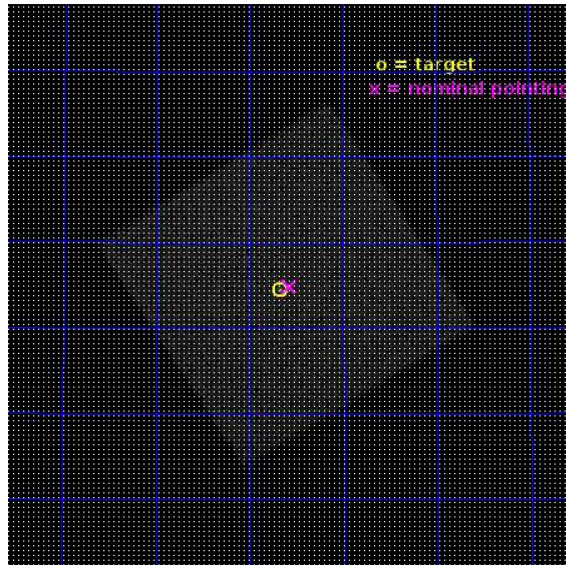
L2 Processing Date : Sep 4 2019

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# 1 Front

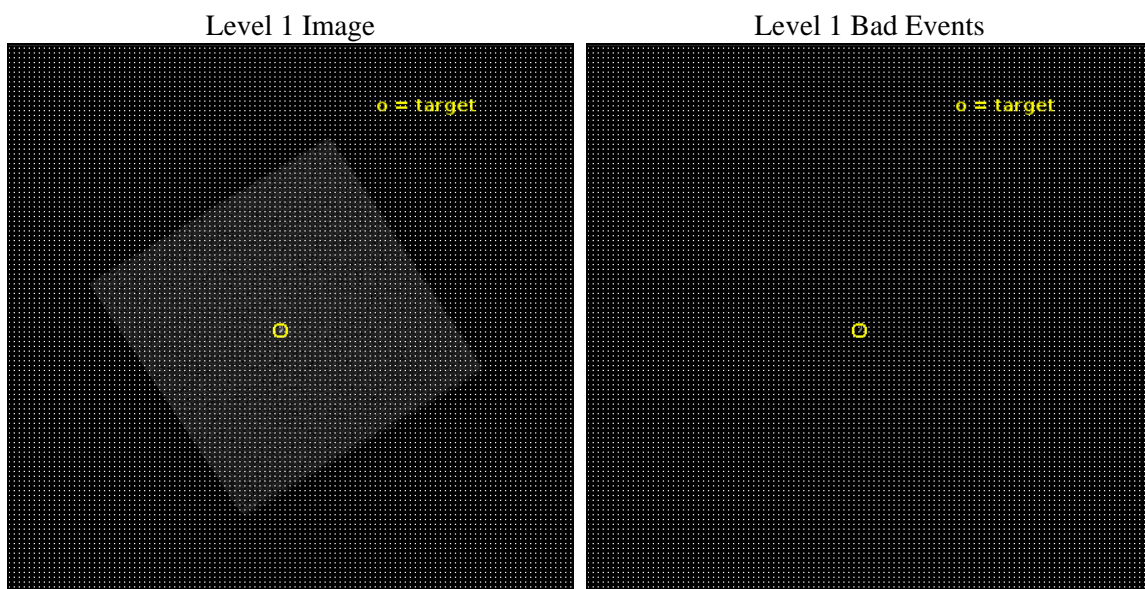
seq_num	291429	Sequence number
obs_id	21743	Observation id
title	AO-20 Calibration Observations to Monitor the Spatial Variations in the HRC-I Gain	Proposal title
observer	CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.169666	Observer's specified target RA [deg]
dec_targ	45.742509	Observer's specified target Dec [deg]
ra_nom	332.14401307387	Nominal RA [deg]
dec_nom	45.748050248928	Nominal Dec [deg]
roll_nom	192.57440264555	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1198.4813222885	[s]
livetime	1179.4933300307	Ontime multiplied by DTCOR
l2events	161225	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	10.8	Processing system revision	ontime	1198.4813222885	[s]
caldsver	4.8.4	&#160	l1events	259986	Number of level 1 events
date	2019-09-04T14:31:59	Date and time of file creation			
revision	1	Processing version of data			

### 2.1.3 Events

#### Level 1 Events

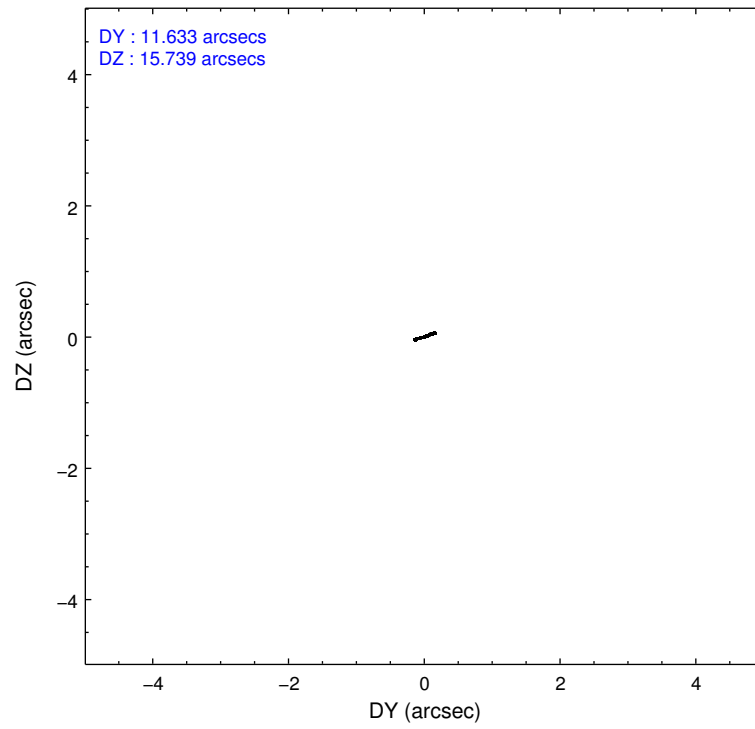
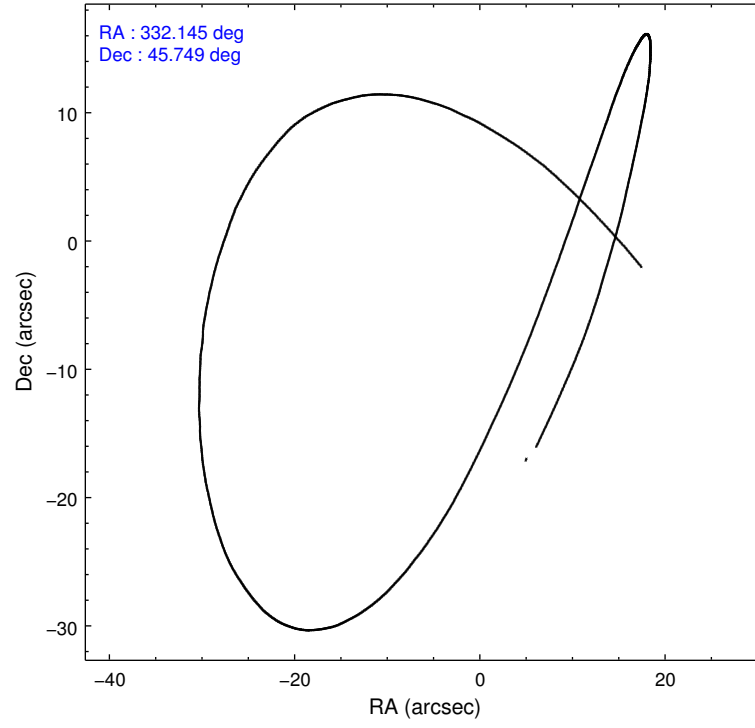
	<b>segment 0</b>
level 1 events	259986
rejected events	53217
rejected %	20%

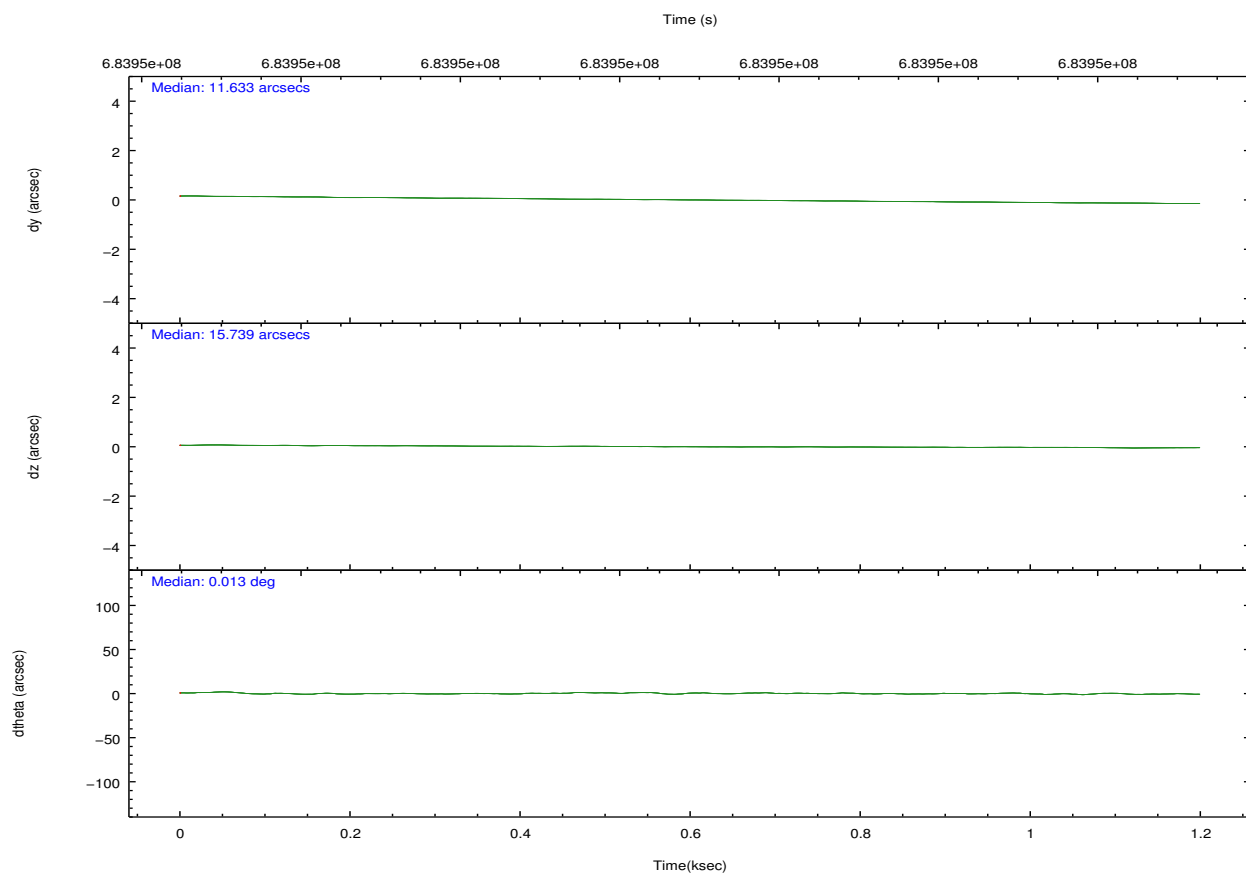
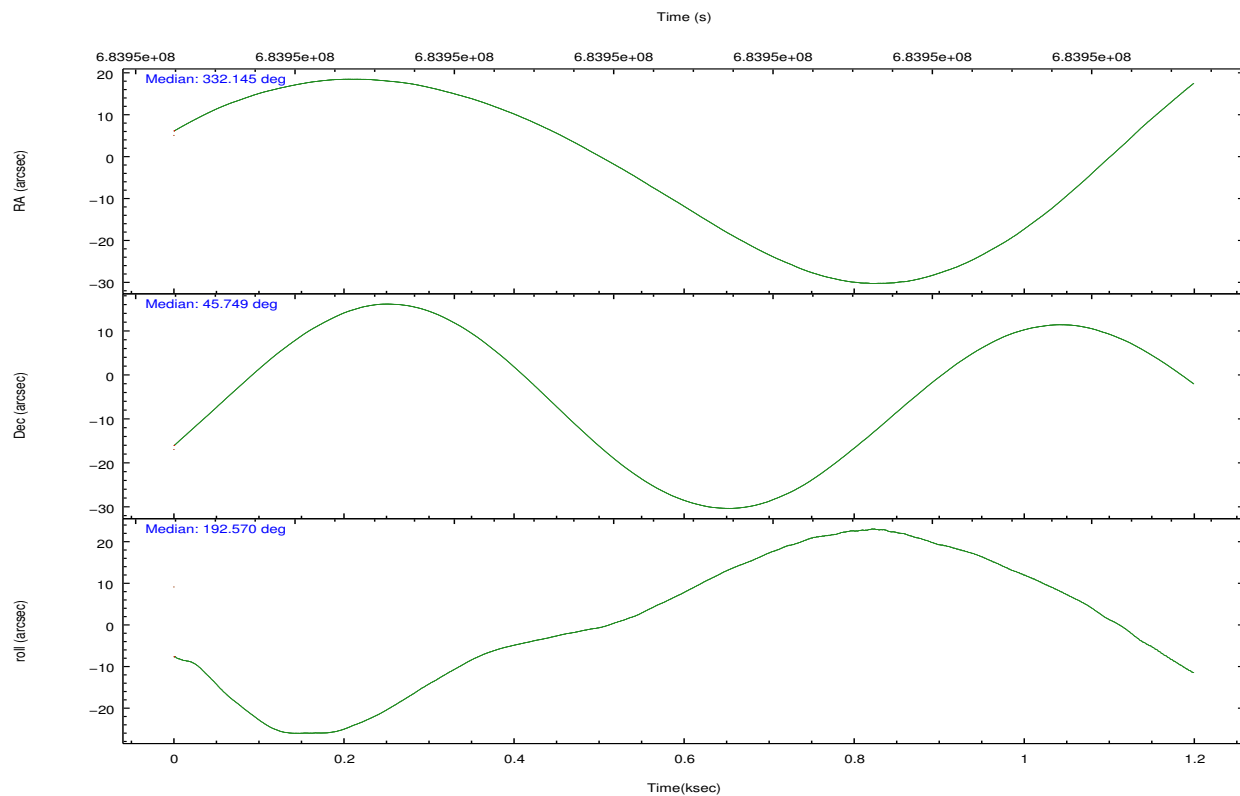
## 2.2 Compared Parameters

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	332.172173	332.1440130738663
[deg] Pointing Dec	45.765928	45.74805024892778
[deg] Pointing Roll	192.649723	192.5744026455522
[mm] SIM focus pos	-1.040293	-1.038866356238299
[mm] SIM defocus	0	0.001426264420575141
[mm] SIM translation stage pos	126.985494	126.9854943052878
[mm] SIM translation stage offset	0	-5.413686238853188e-06
[s] Observation start time (MET)	683951093.184000	683950717.57357
Observation start date	2019-09-04T02:23:44	2019-09-04T02:18:37
[s] Observation end time (MET)	683952093.184000	683952227.3986599
Observation end date	2019-09-04T02:40:24	2019-09-04T02:43:47

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

## 2.3 Aspect





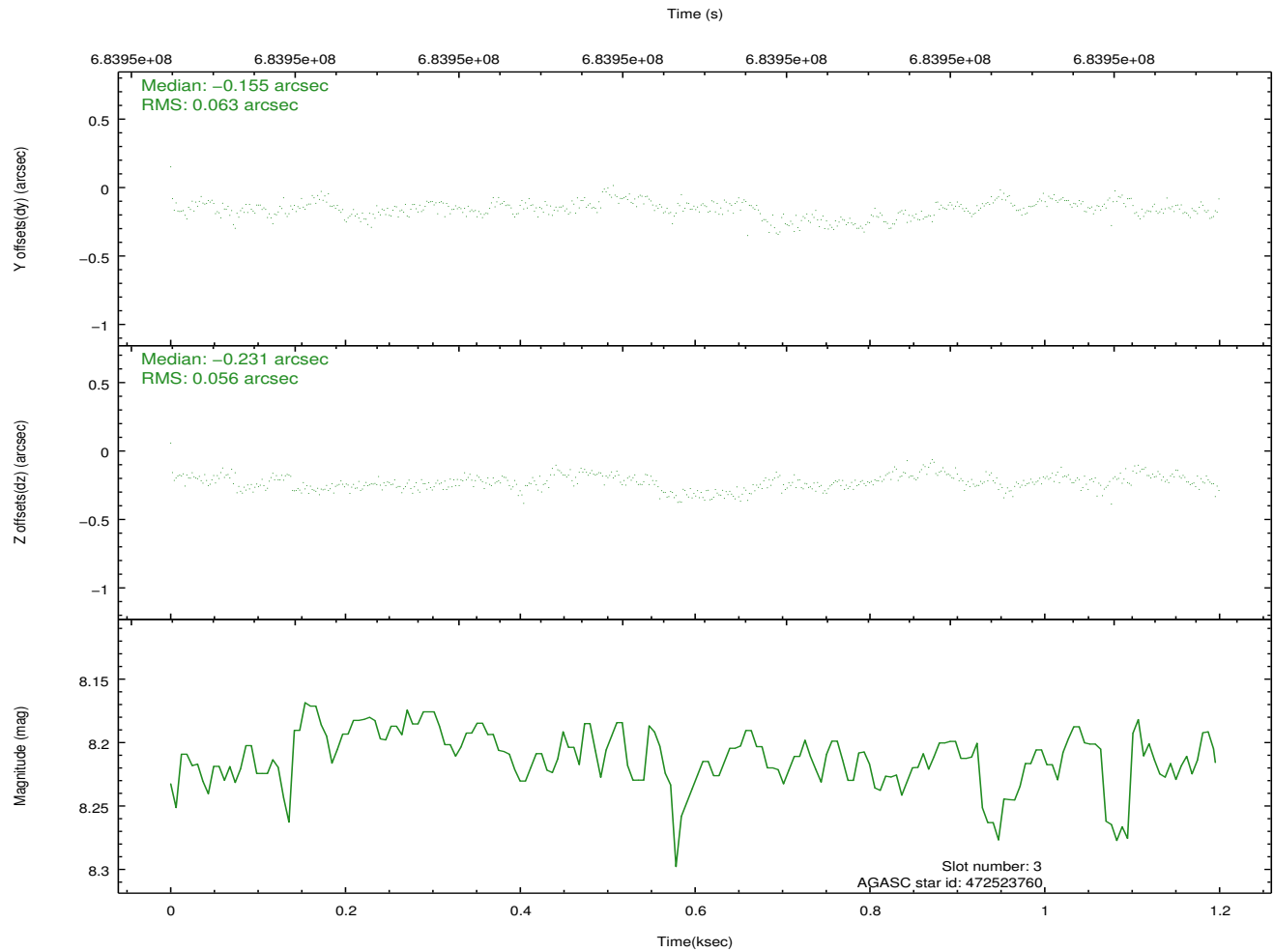
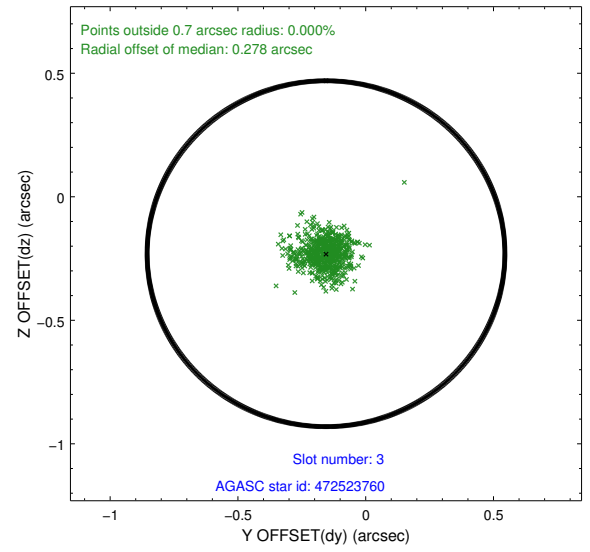
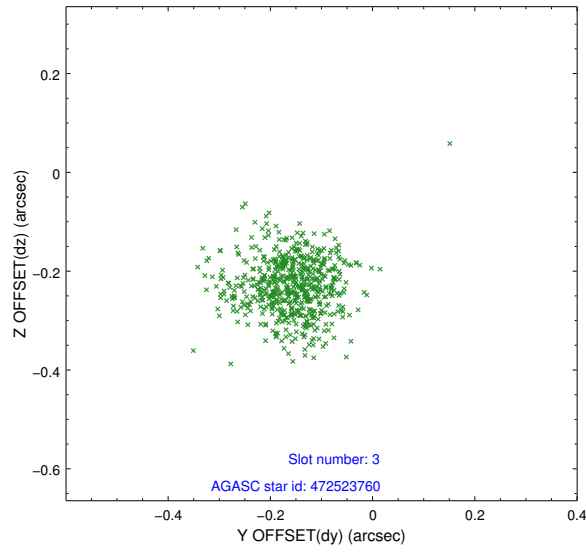
Slot Statistics

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	7.05	293	1.000	-0.212	-0.188	0.007	0.011	0.000000	0.000000	-767.66	-1304
1	FID		HRC-I-3	7.11	293	1.000	-0.261	-0.130	0.008	0.014	0.000000	0.000000	-1198.63	996
2	FID		HRC-I-4	7.04	293	1.000	0.586	0.228	0.007	0.011	0.000000	0.000000	1272.02	1001
3	GUIDE	used	472523760	8.21	586	1.000	-0.155	-0.231	0.087	0.143	331.645363	45.403260	1585.42	981
4	GUIDE	used	472525528	6.63	586	1.000	-0.362	-0.369	0.097	0.171	331.551102	45.248694	1945.38	1471
5	GUIDE	used	472527720	6.99	586	1.000	-0.342	-0.357	0.112	0.185	331.460205	45.112509	2282.15	1897
6	GUIDE	used	472535576	7.83	586	1.000	0.233	0.339	0.106	0.195	331.438373	46.291802	1370.16	-2247
7	GUIDE	used	472665256	8.95	585	1.000	0.634	0.625	0.125	0.209	332.808125	46.195041	-1881.74	-1166

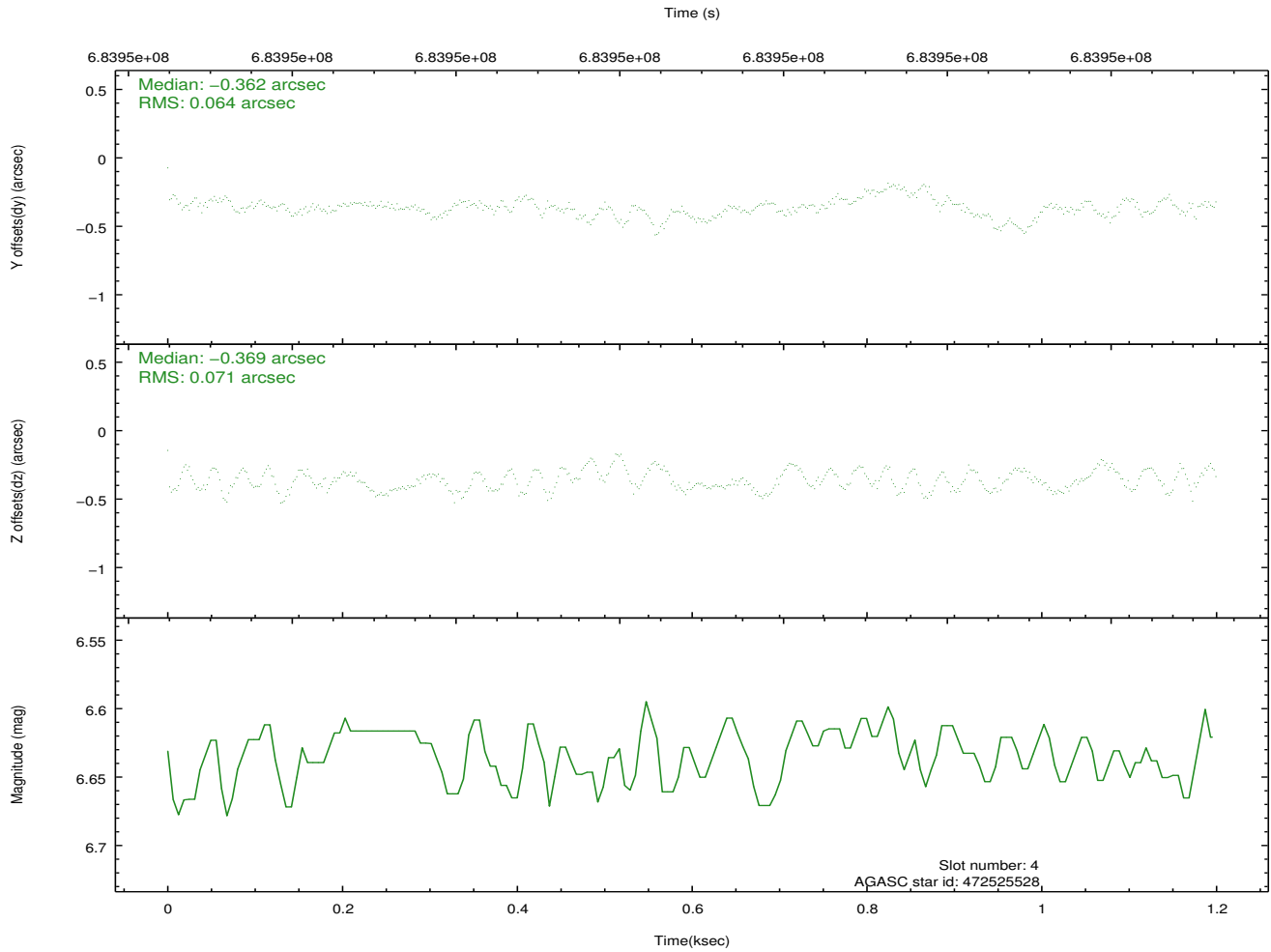
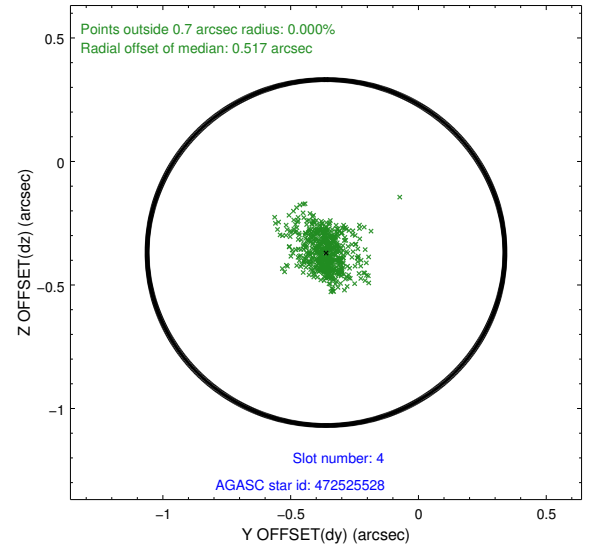
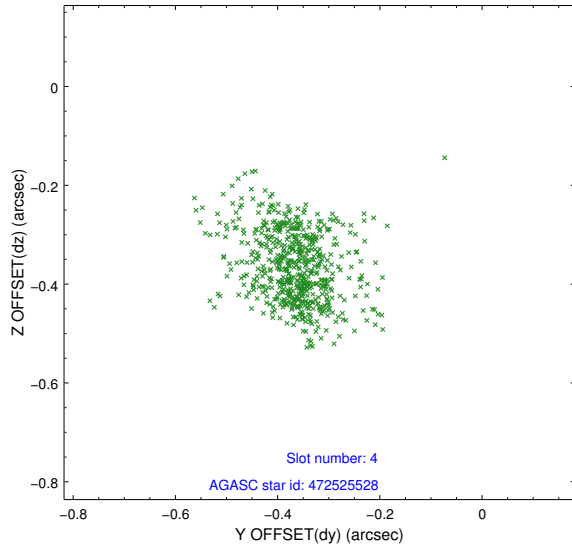


## 2.4 Star Slots

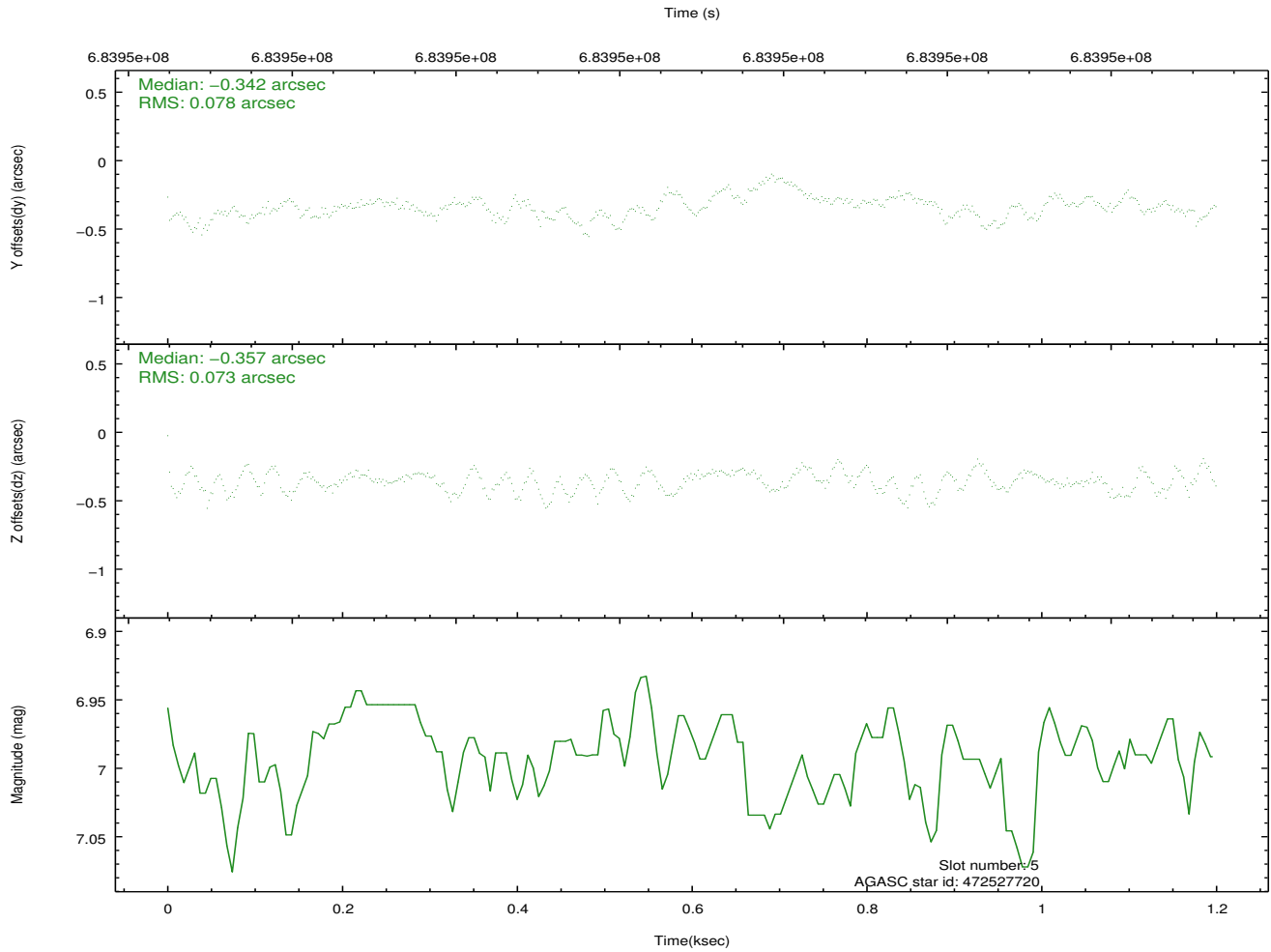
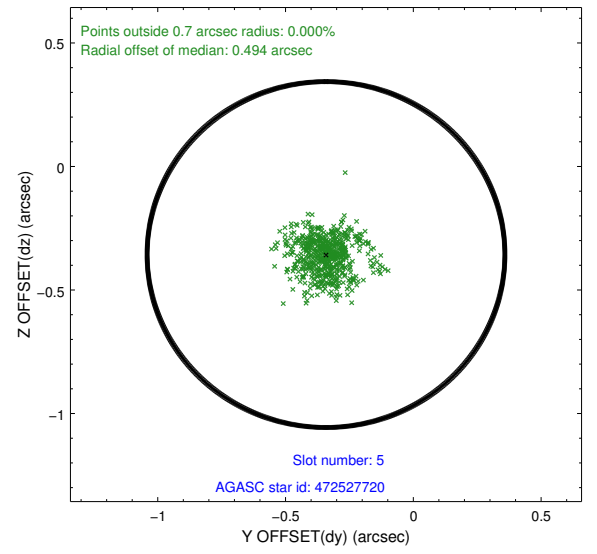
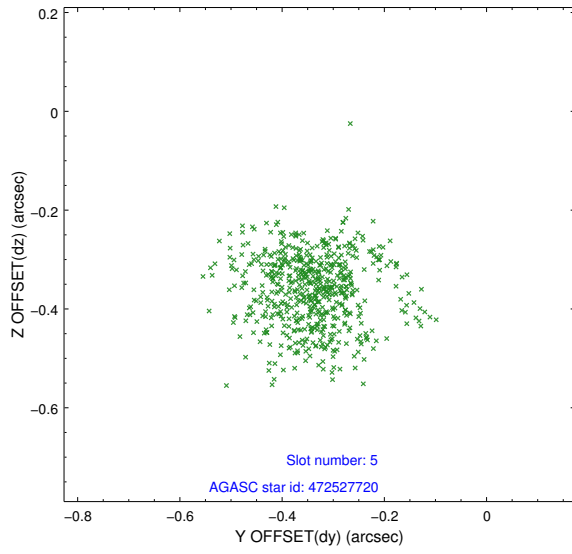
### 2.4.1 Slot 3



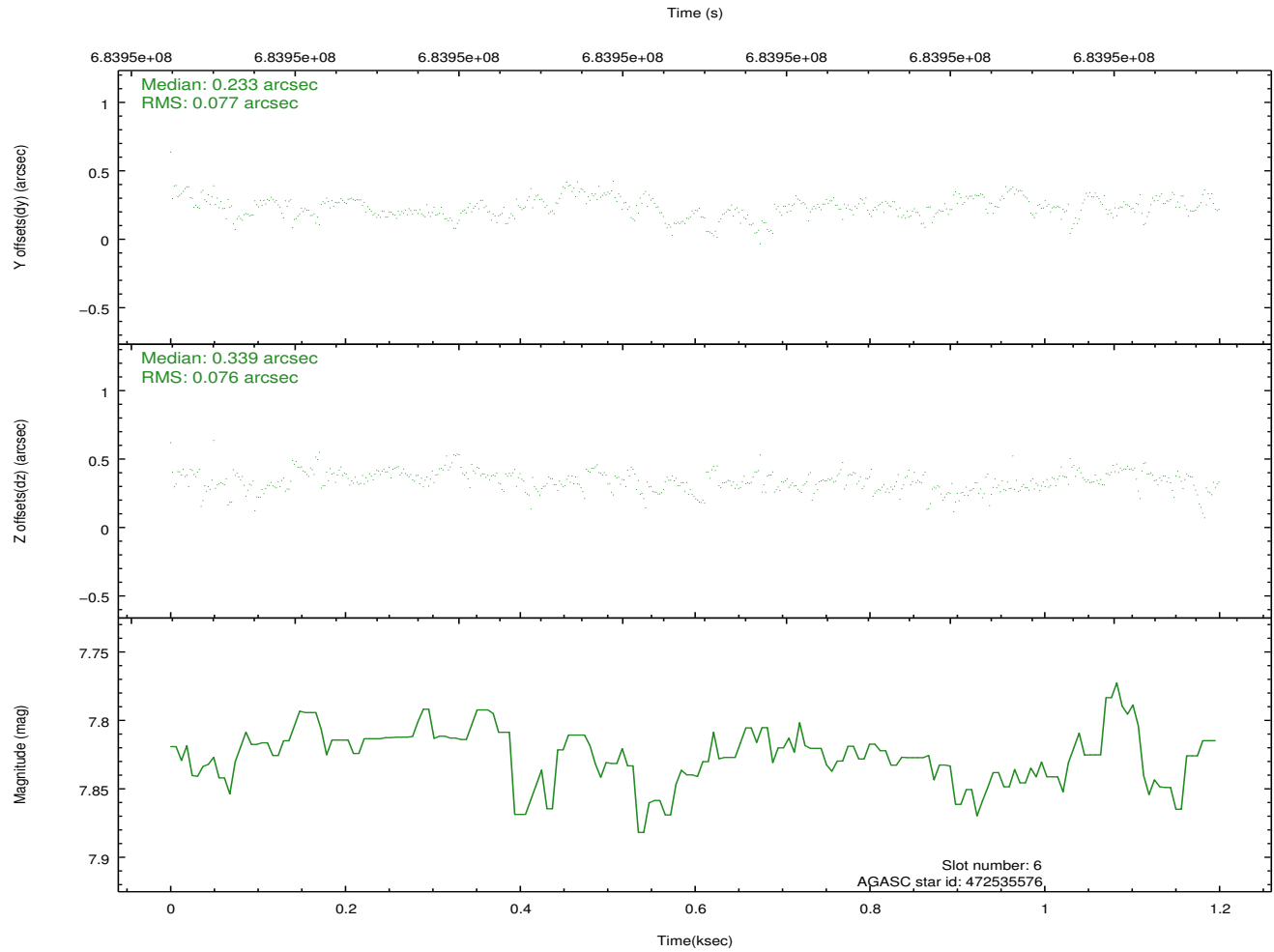
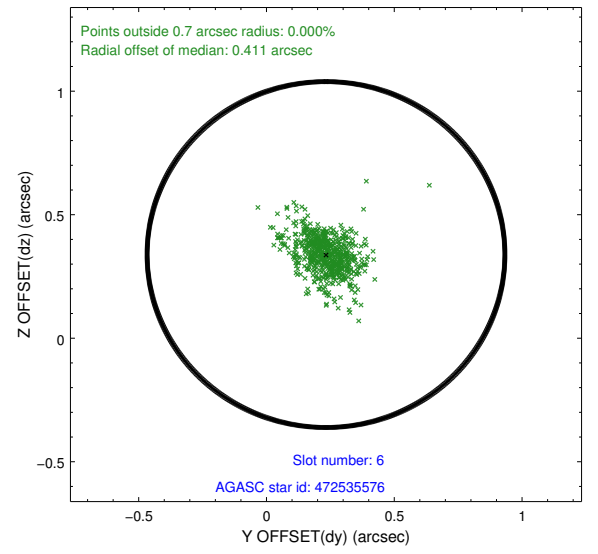
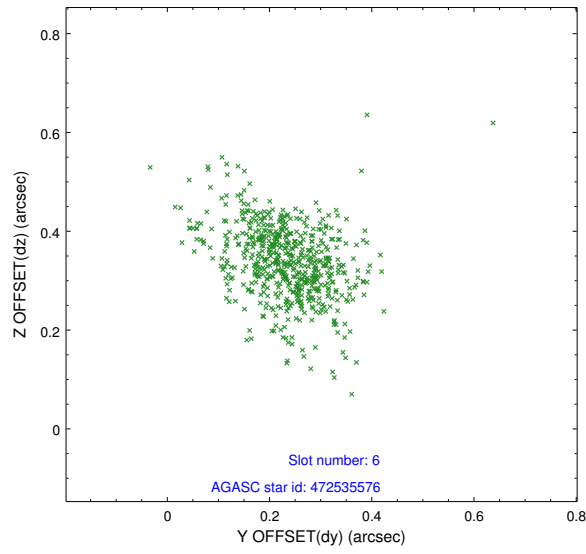
## 2.4.2 Slot 4



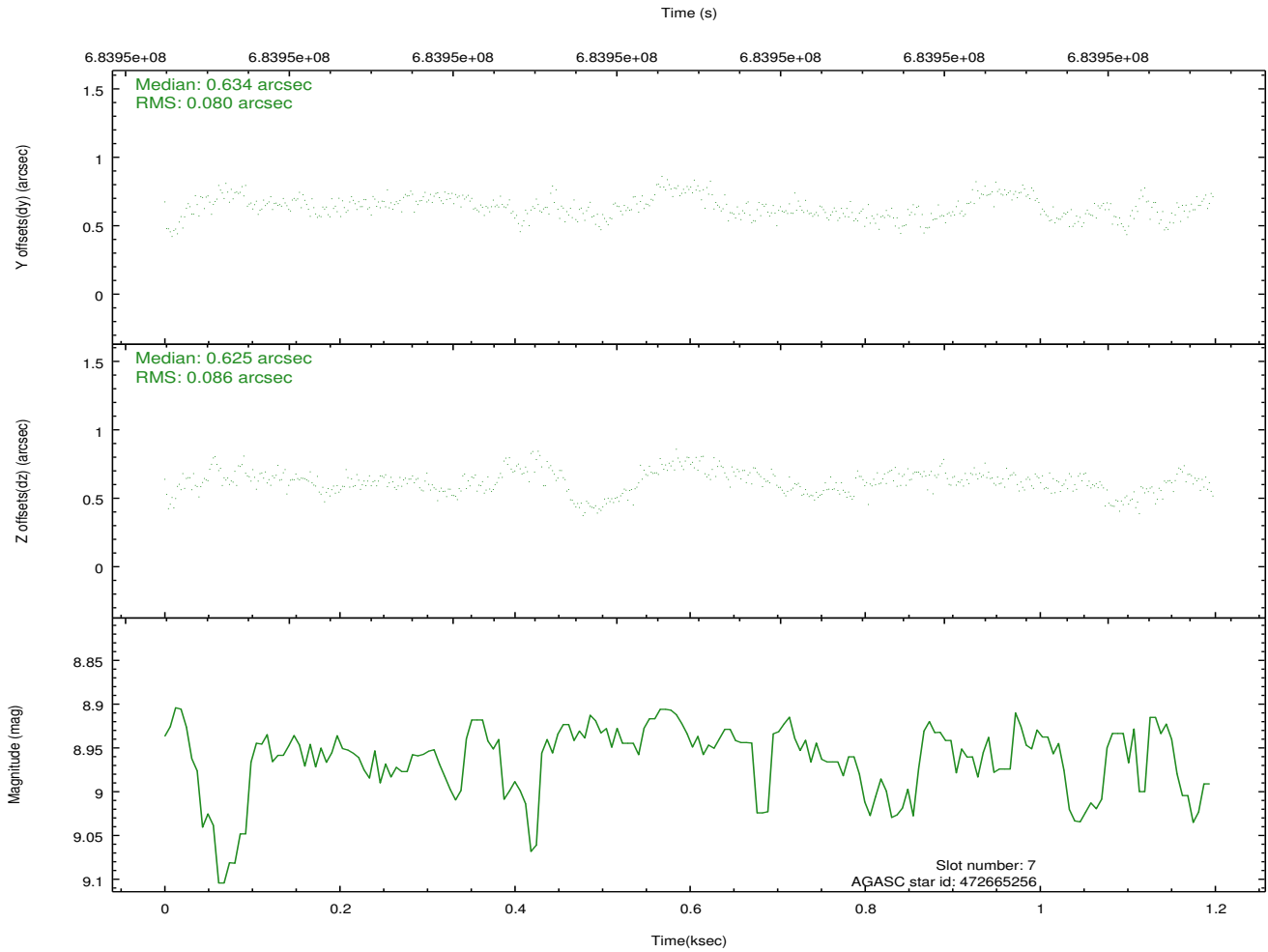
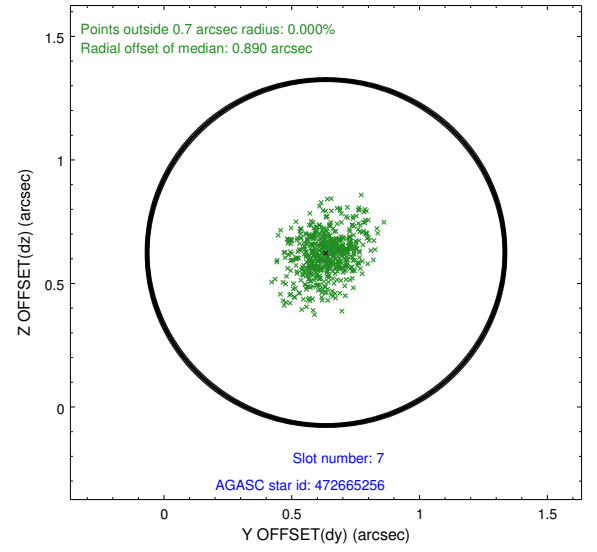
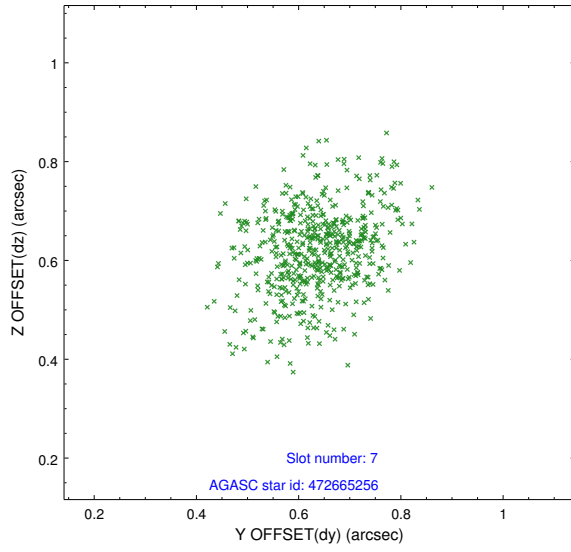
### 2.4.3 Slot 5



## 2.4.4 Slot 6

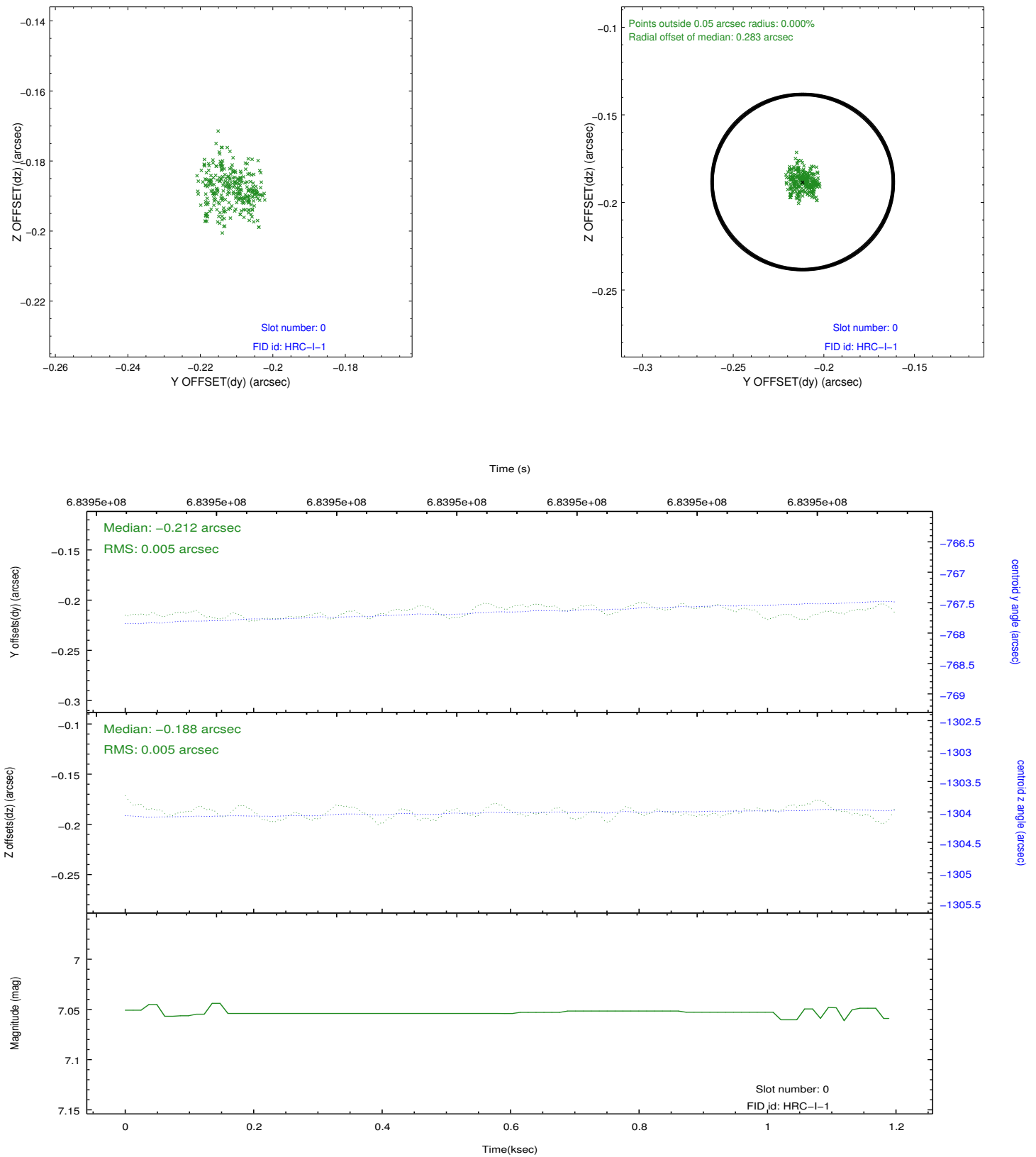


## 2.4.5 Slot 7

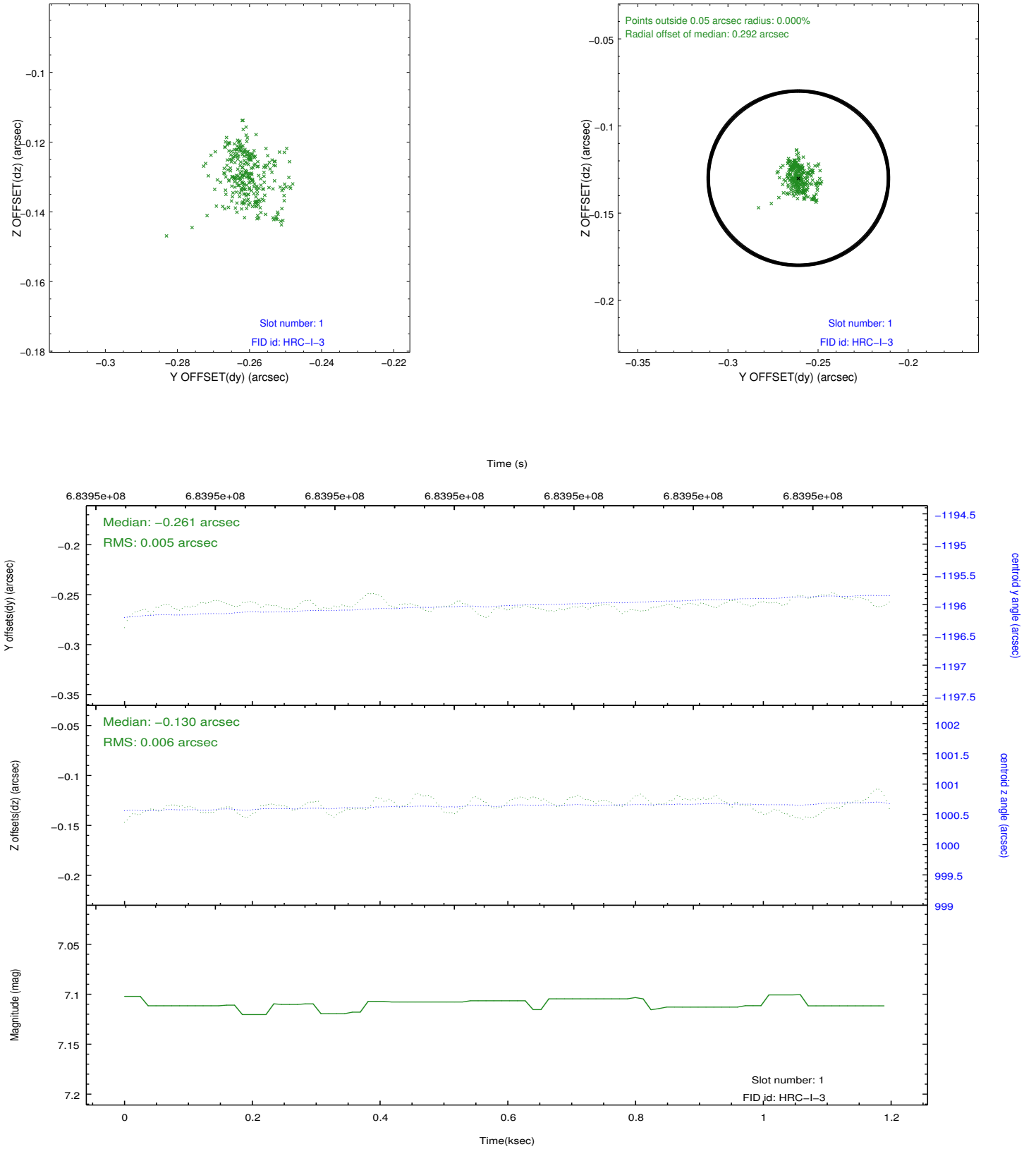


## 2.5 FID Slots

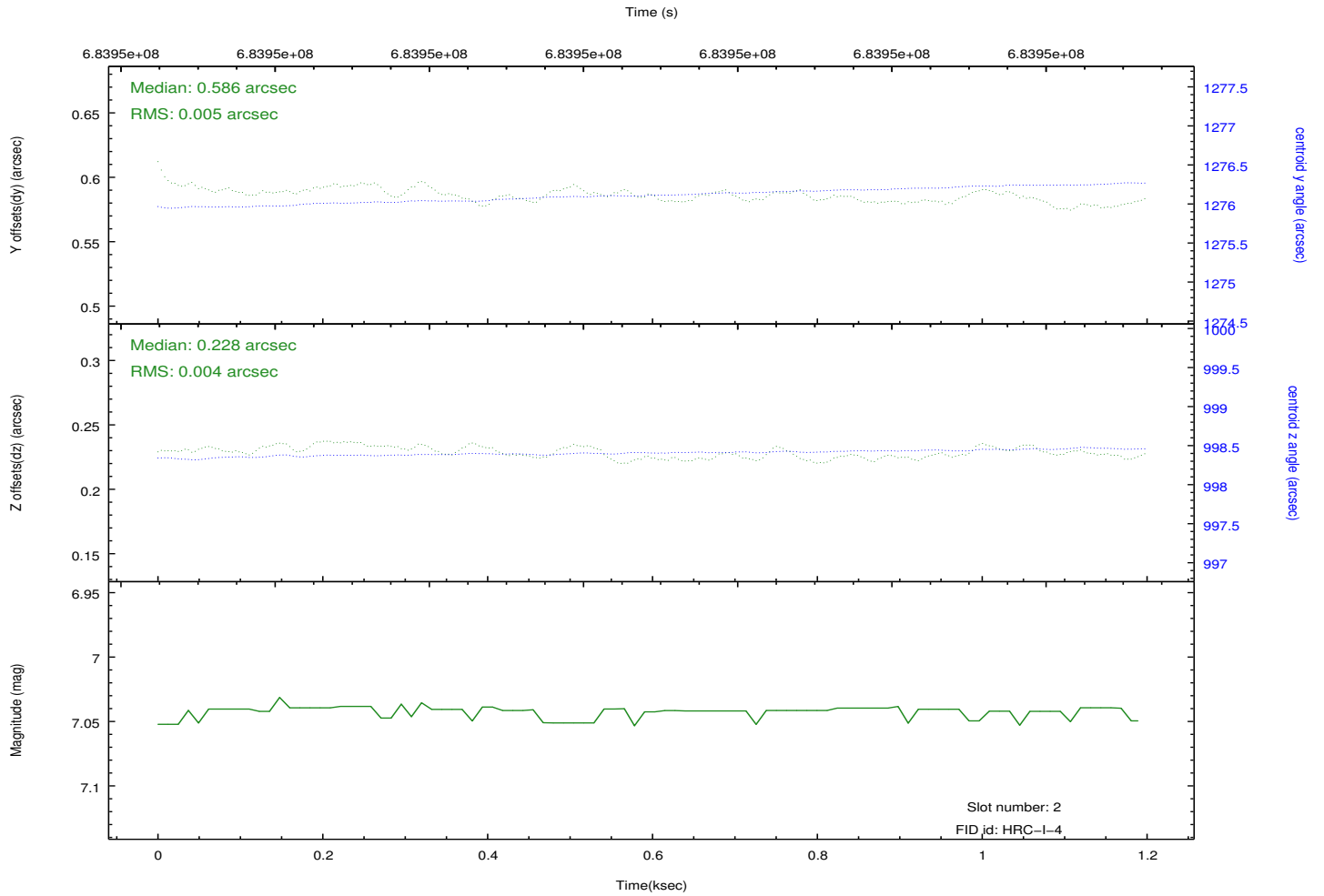
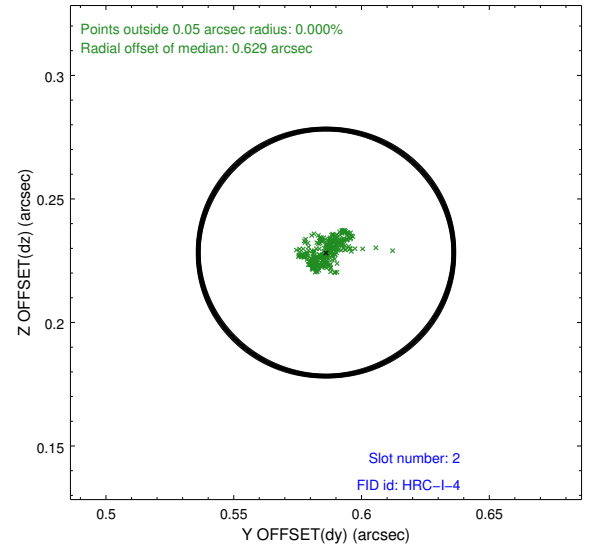
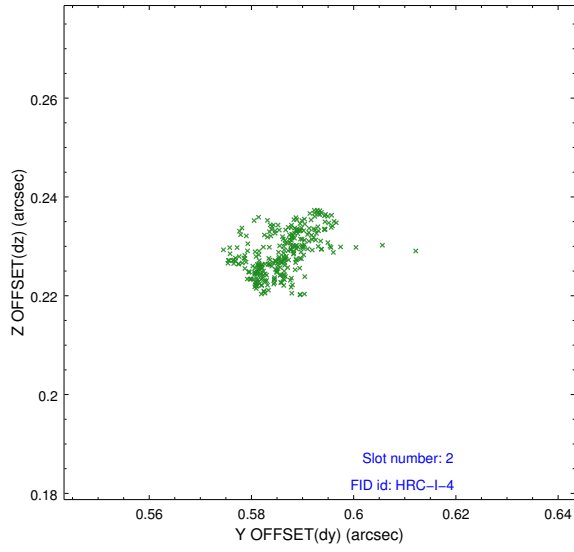
### 2.5.1 Slot 0



## 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)	2019.09.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.1984813222885

### A.2 Comments