

# V&V Reference Report

## L2 ASCDS Version : 10.6

Observation 19830 - L2 Version 1  
Chandra X-Ray Center

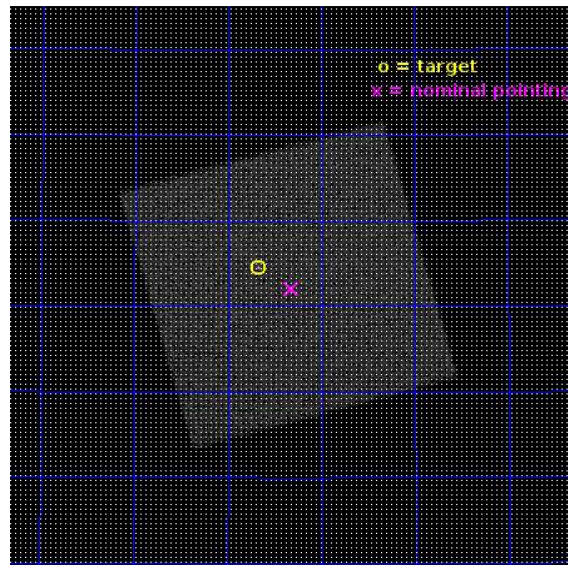
L2 Processing Date : Sep 17 2017

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# 1 Front

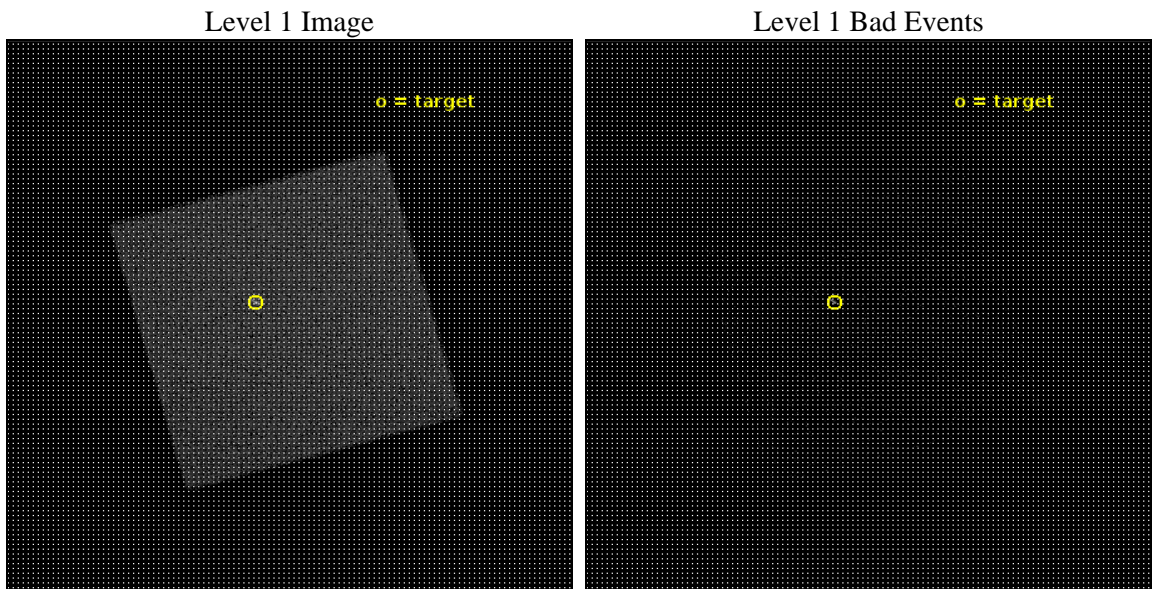
seq_num	291347	Sequence number
obs_id	19830	Observation id
title	AO-18 Calibration Observations to Monitor the Spatial Variations in the HRC-I Gain	Proposal title
observer	CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.08041176267	Nominal RA [deg]
dec_nom	45.701226988281	Nominal Dec [deg]
roll_nom	209.34530035117	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1175.6750688553	[s]
livetime	1161.0926364309	Ontime multiplied by DTCOR
l2events	127626	Number of level 2 events



## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



### 2.1.2 Parameters

obi_num	1	Obi number	sched_exp_time	1000.000000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	1175.6750688553	[s]
caldbver	4.7.6	&#160	l1events	213396	Number of level 1 events
date	2017-09-17T16:08:34	Date and time of file creation			
revision	1	Processing version of data			

### 2.1.3 Events

#### Level 1 Events

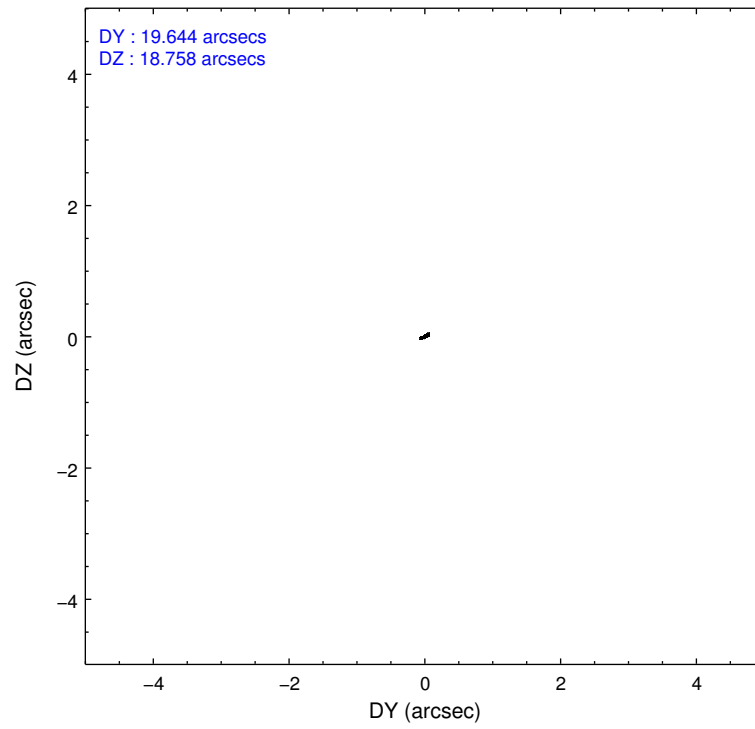
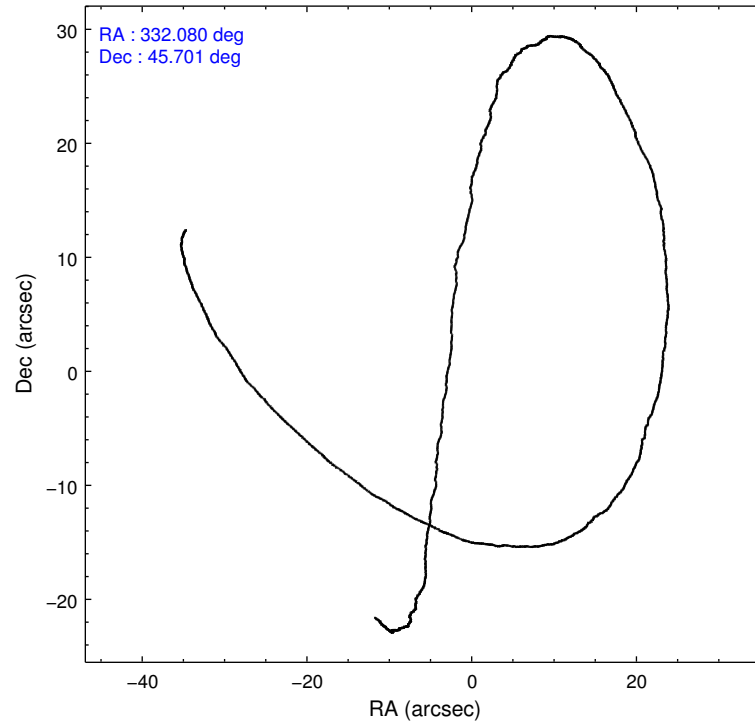
	<b>segment 0</b>
level 1 events	213396
rejected events	46814
rejected %	21%

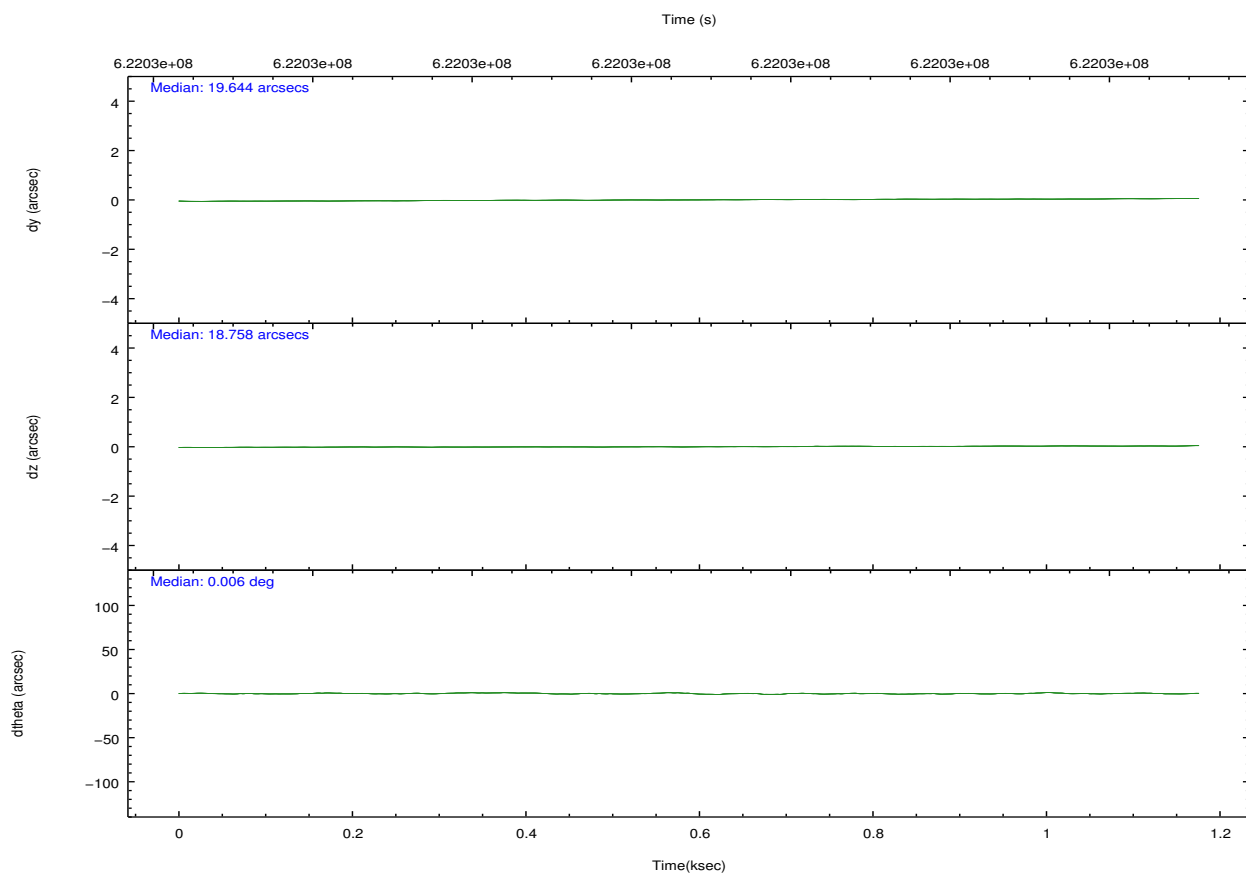
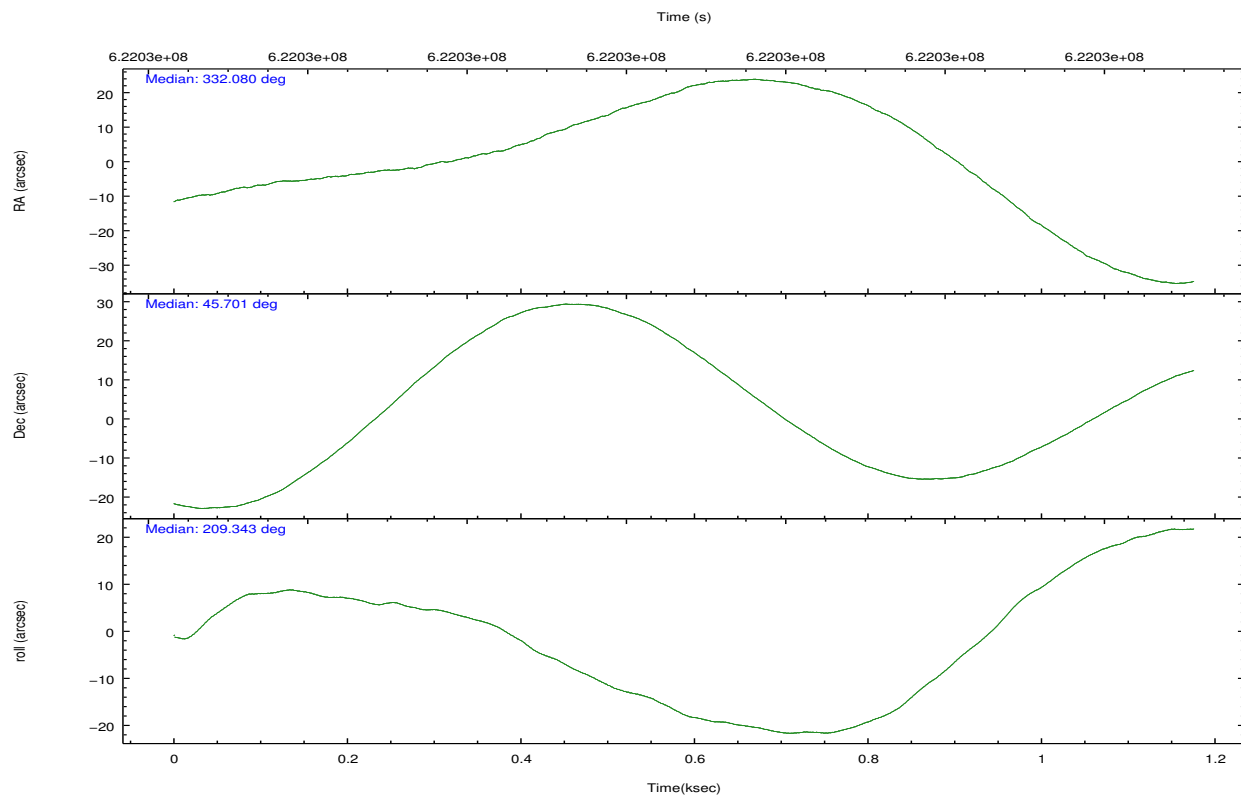
## 2.2 Compared Parameters

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	332.099797	332.0804117626678
[deg] Pointing Dec	45.725604	45.70122698828076
[deg] Pointing Roll	209.426930	209.3453003511736
[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)	622028268.184000	622027892.0918
Observation start date	2017-09-17T09:36:39	2017-09-17T09:31:32
[s] Observation end time (MET)	622029268.184000	622029402.94188
Observation end date	2017-09-17T09:53:19	2017-09-17T09:56:42

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

## 2.3 Aspect





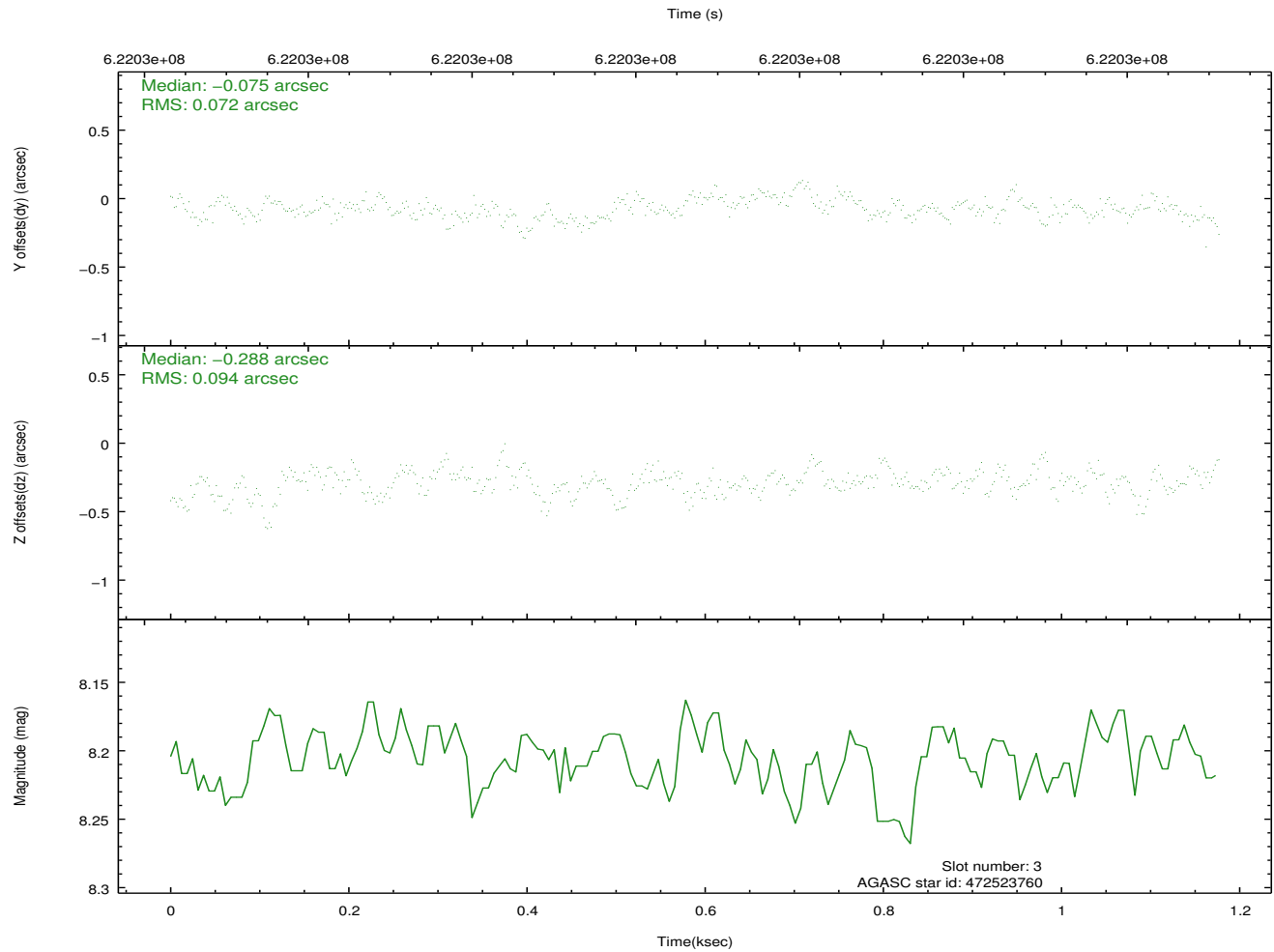
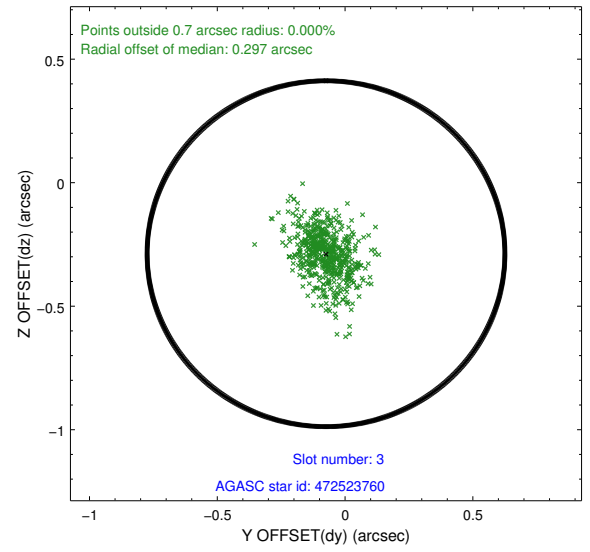
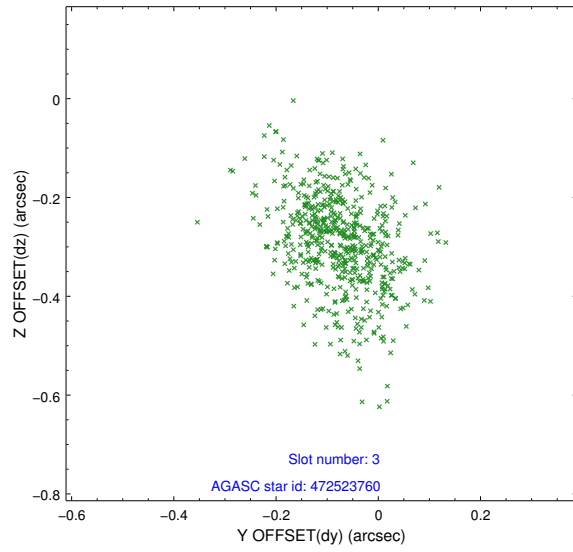
### Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		HRC-I-1	7.04	287	-0.210	-0.013	0.007	0.013	0.000000	0.000000	-775.71	-1307.01
1	FID		HRC-I-2	7.05	287	0.357	-0.111	0.006	0.010	0.000000	0.000000	834.79	-1313.14
2	FID		HRC-I-3	7.12	287	-0.028	0.034	0.006	0.014	0.000000	0.000000	-1201.23	993.01
3	GUIDE	used	472523760	8.20	575	-0.075	-0.288	0.123	0.213	331.645363	45.403260	1567.85	442.10
4	GUIDE	used	472525528	6.63	575	-0.659	-0.147	0.128	0.245	331.551102	45.248694	2053.24	807.47
5	GUIDE	used	472651904	6.10	575	-0.010	-0.464	0.153	0.241	332.170077	45.742257	-180.59	32.95
6	GUIDE	used	472659832	9.38	575	0.197	0.517	0.205	0.319	332.780399	46.098139	-2143.61	-340.44
7	GUIDE	used	472533912	9.11	574	0.553	0.392	0.183	0.303	331.791136	46.368695	-474.67	-2395.95

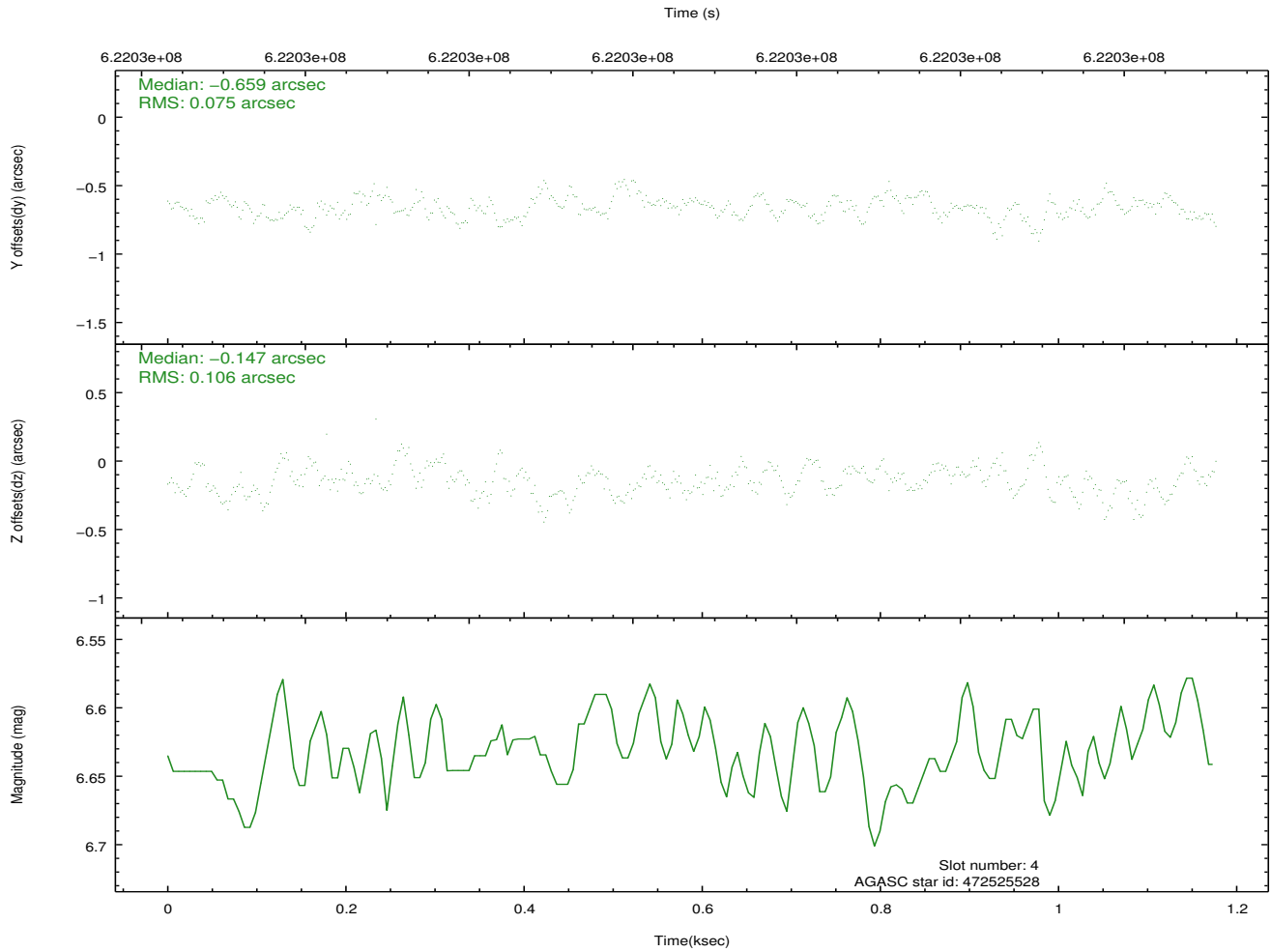
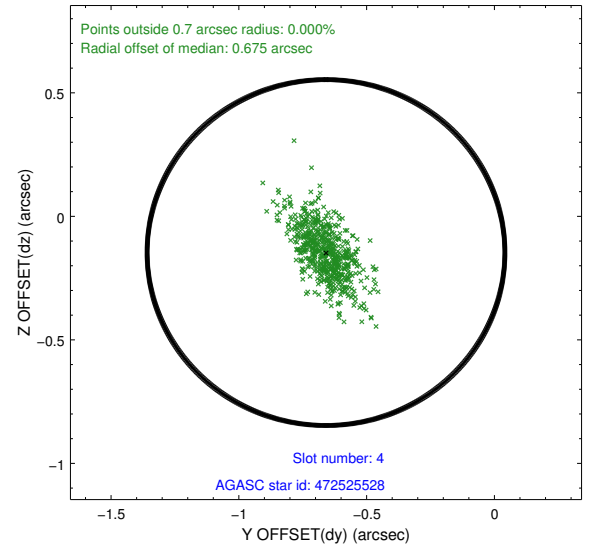
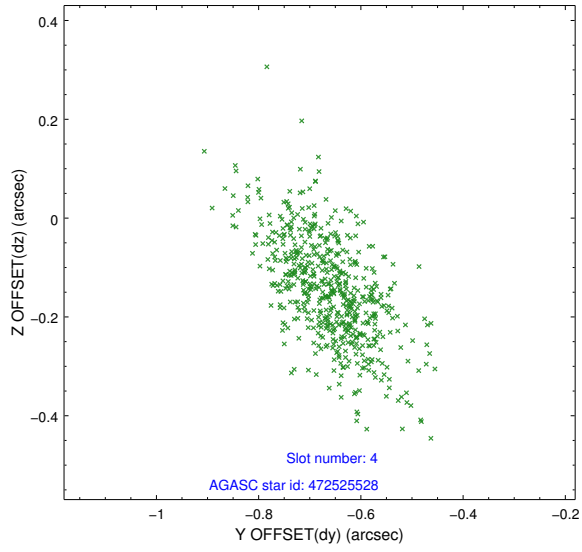


## 2.4 Star Slots

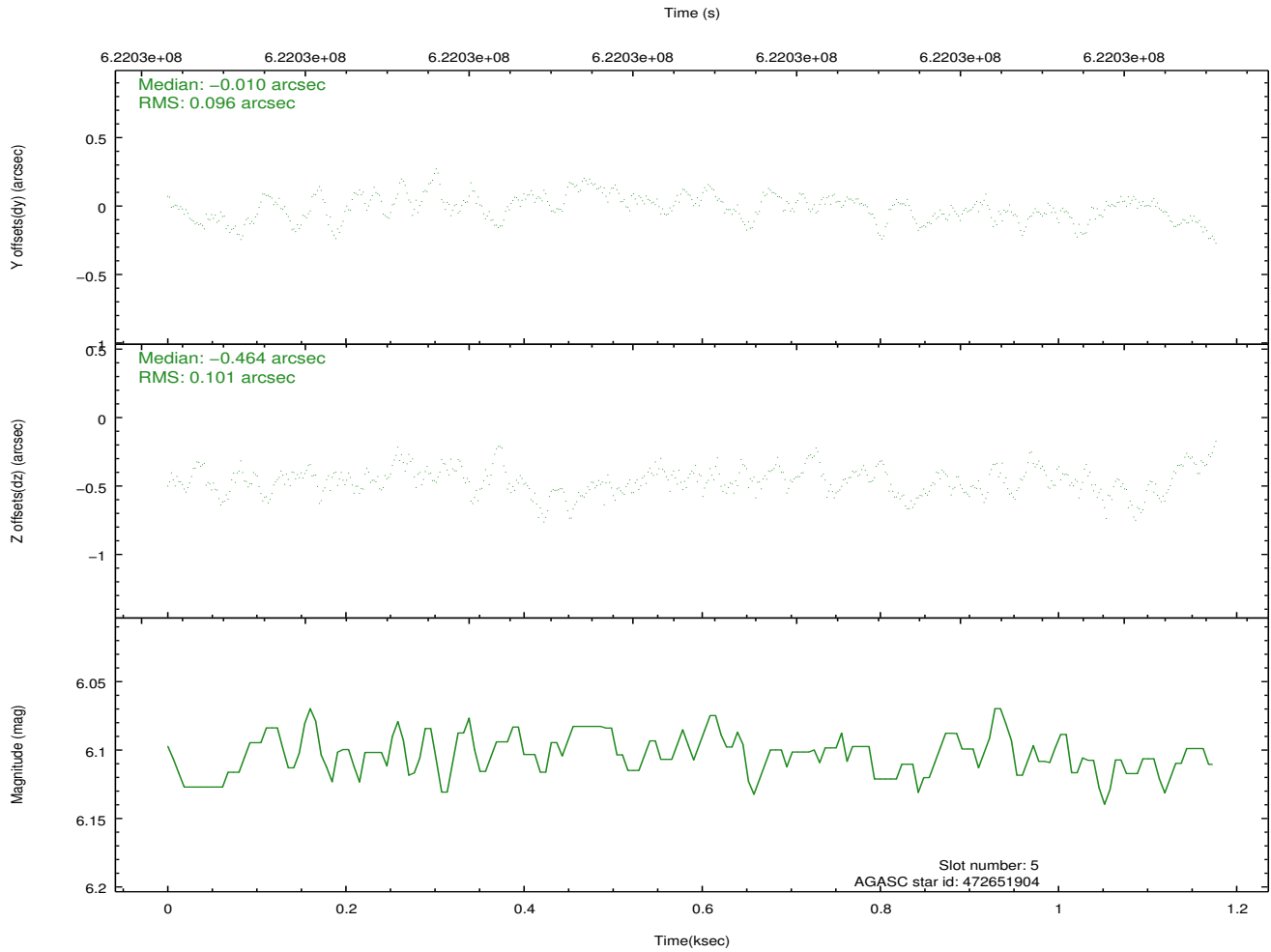
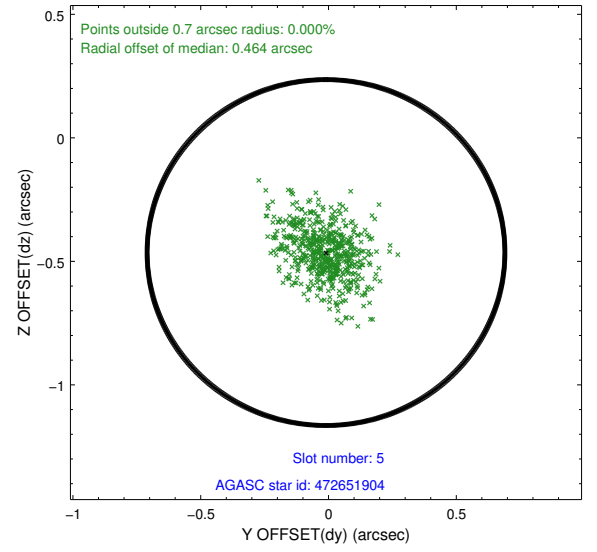
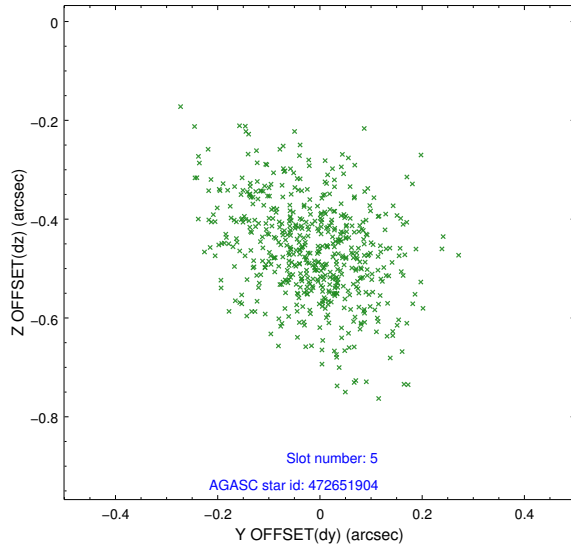
### 2.4.1 Slot 3



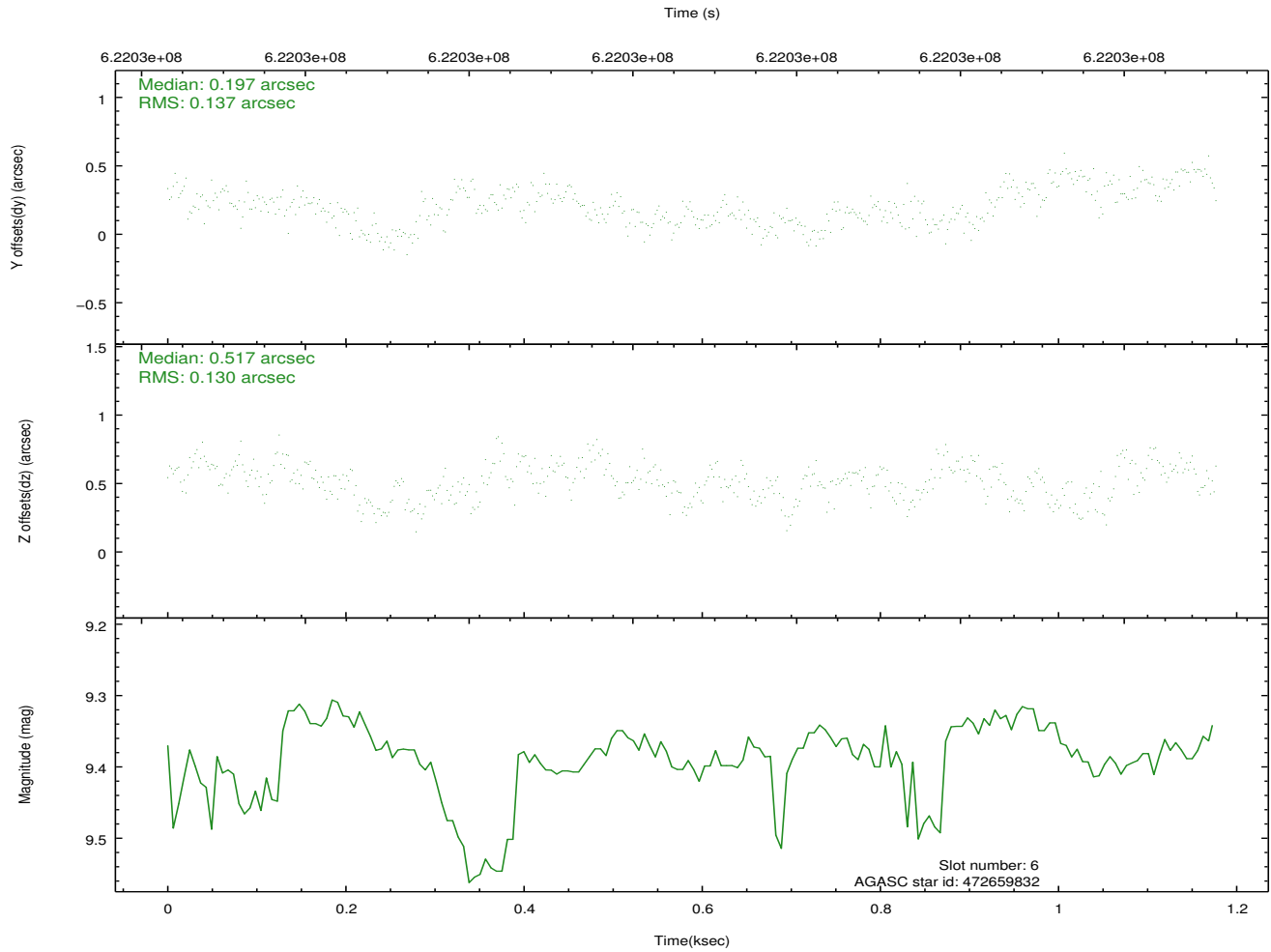
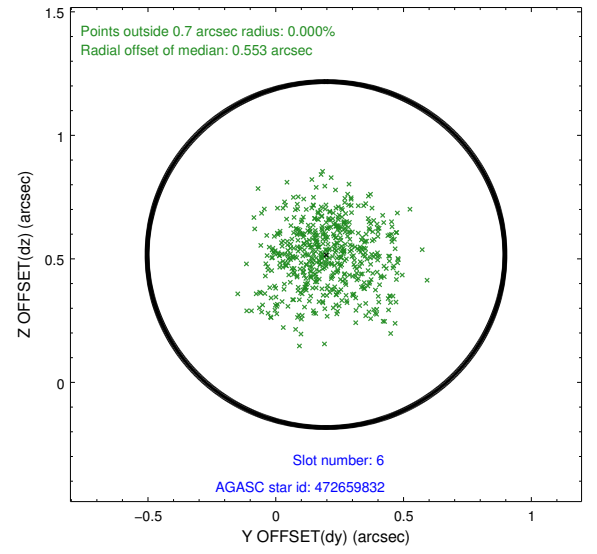
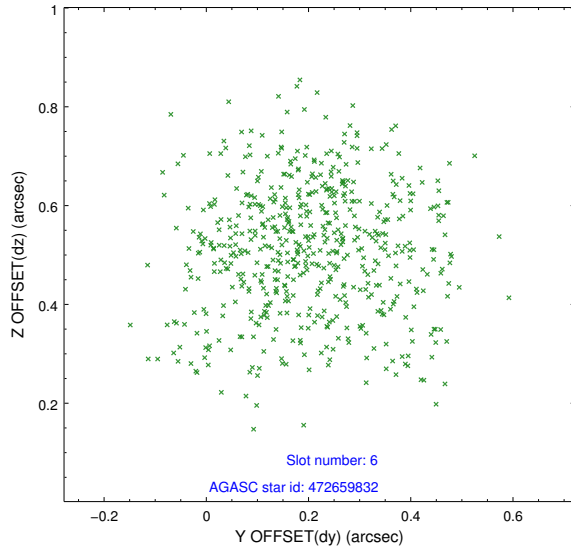
## 2.4.2 Slot 4



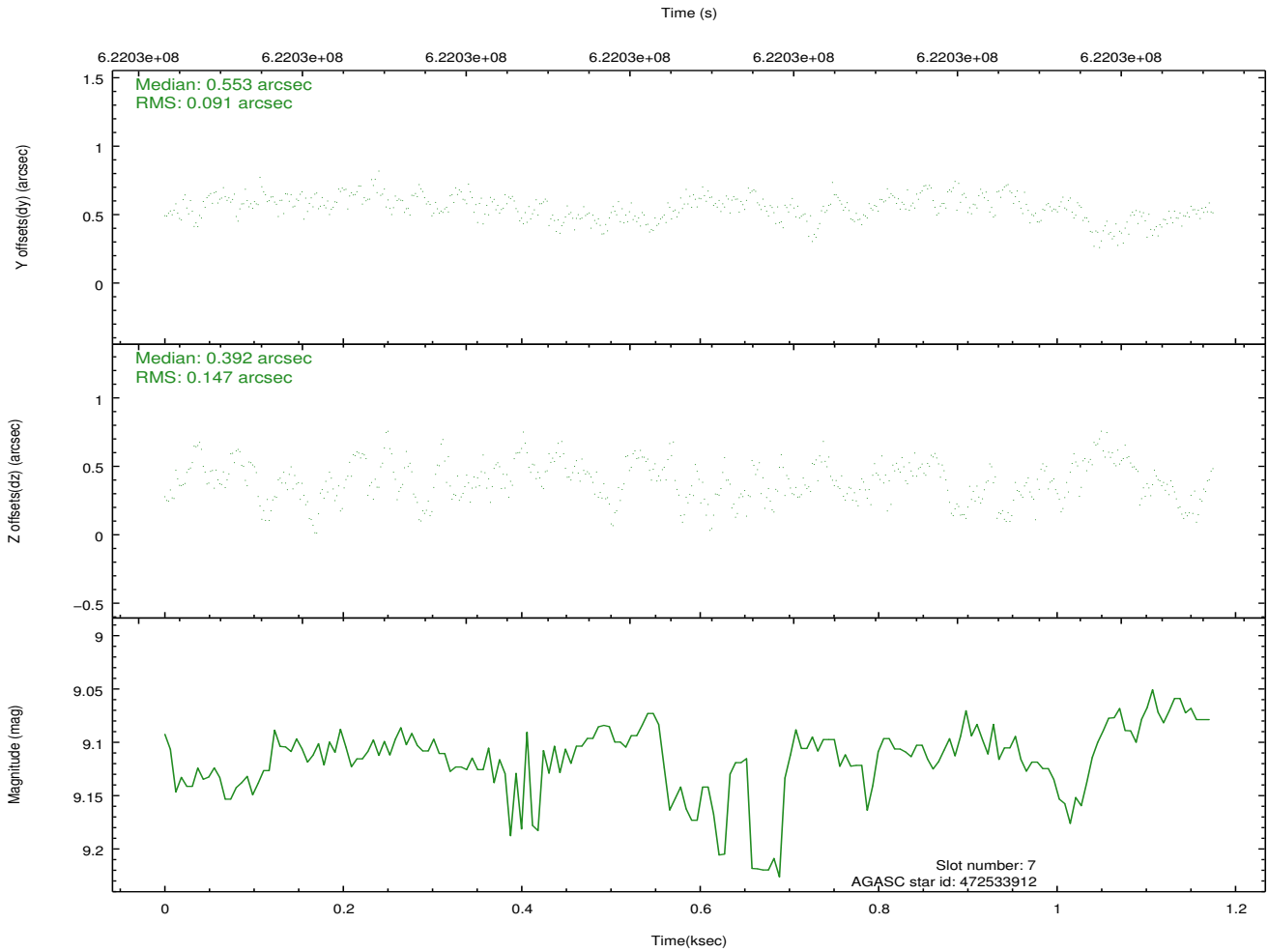
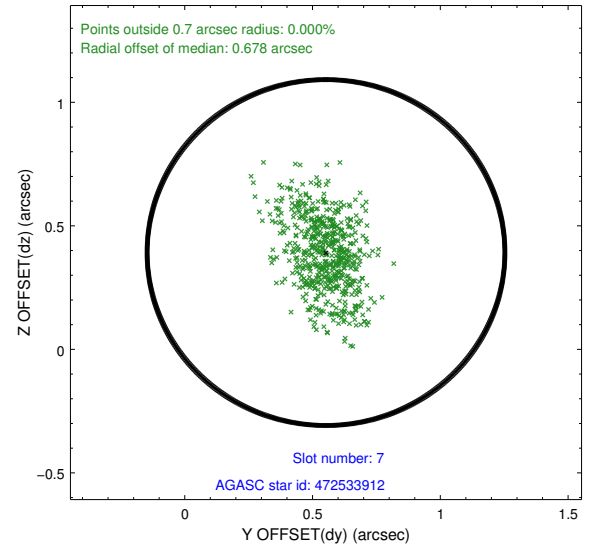
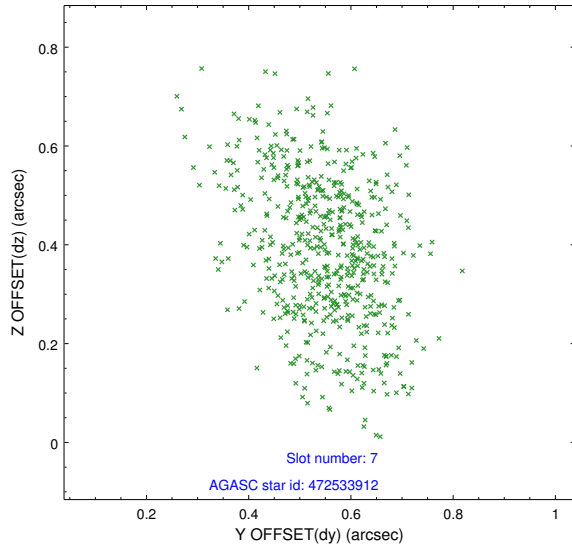
### 2.4.3 Slot 5



## 2.4.4 Slot 6

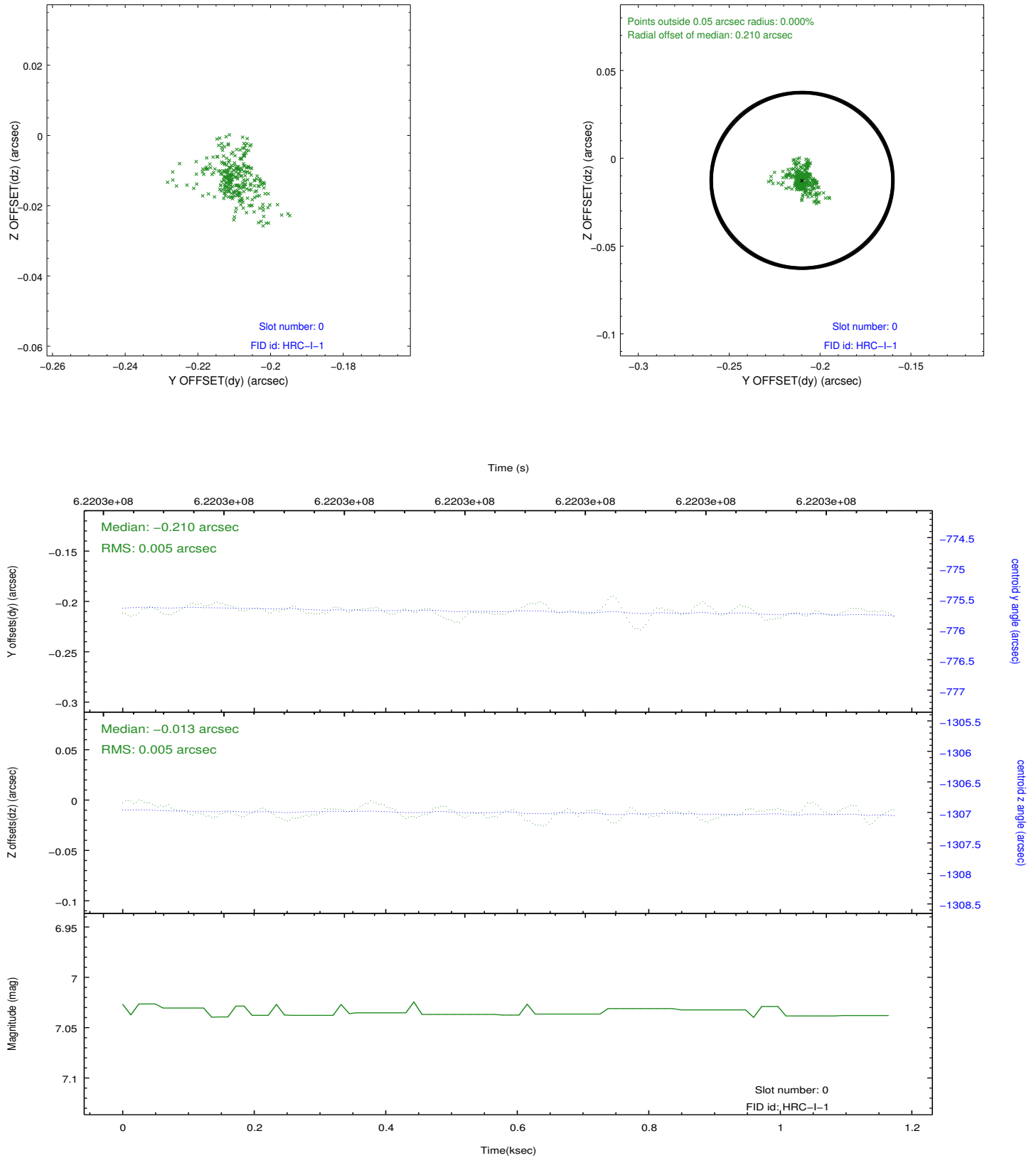


## 2.4.5 Slot 7

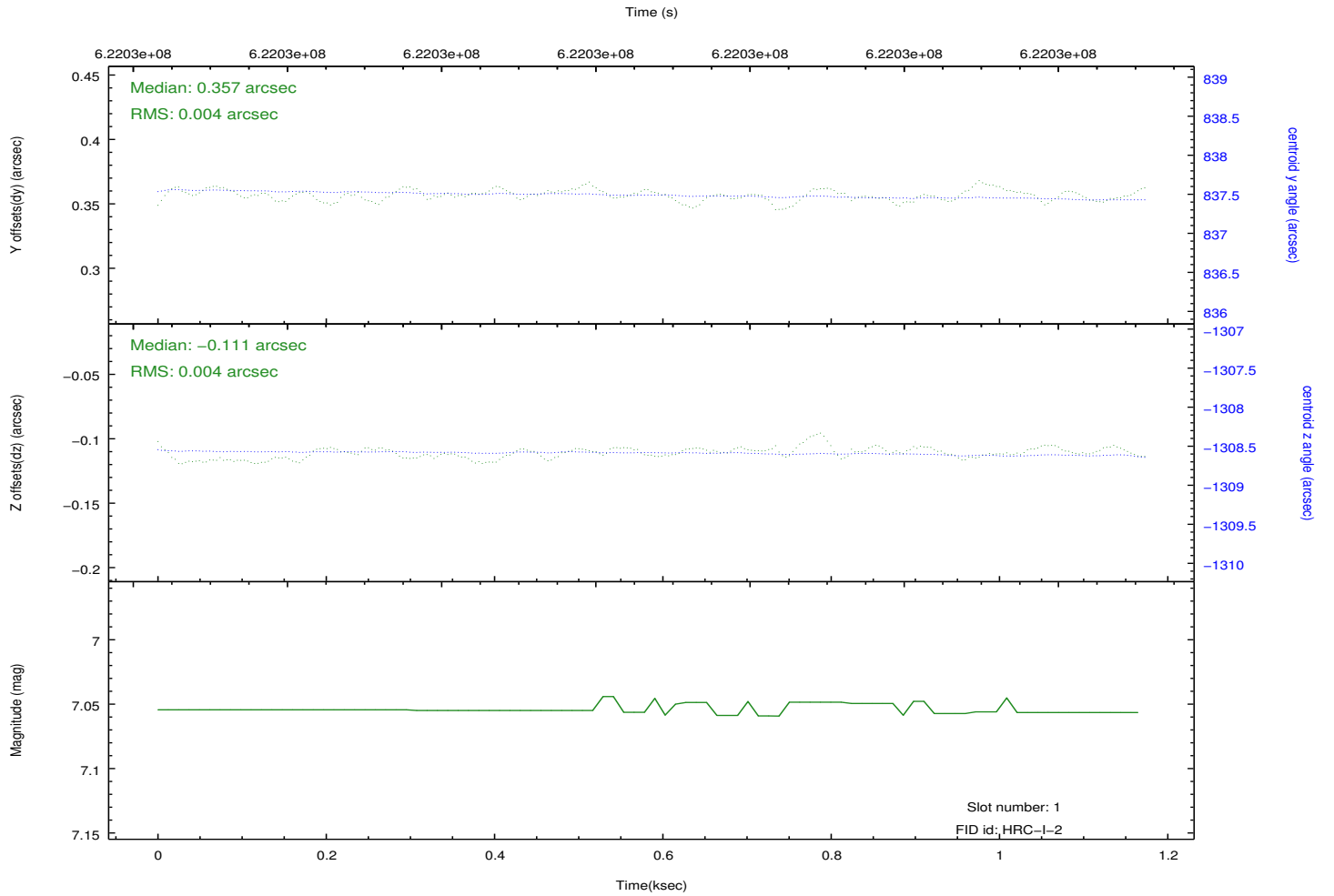
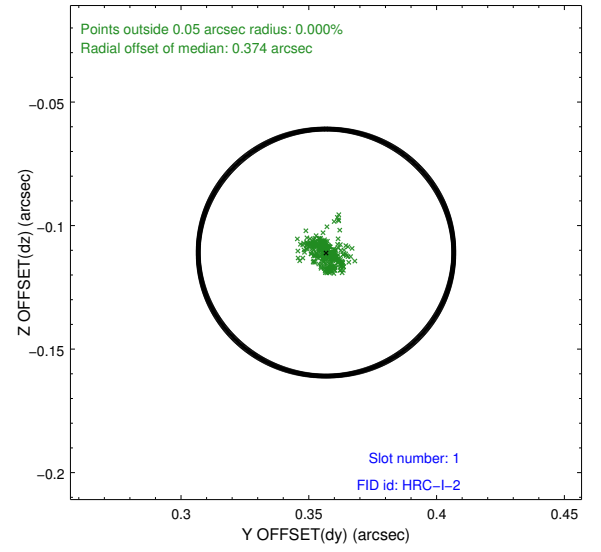
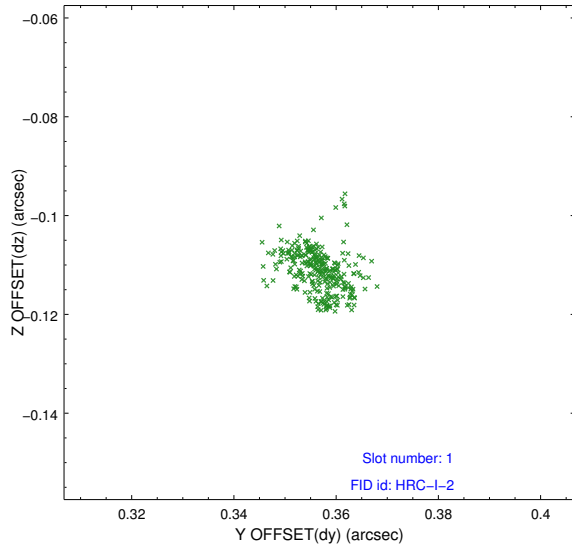


## 2.5 FID Slots

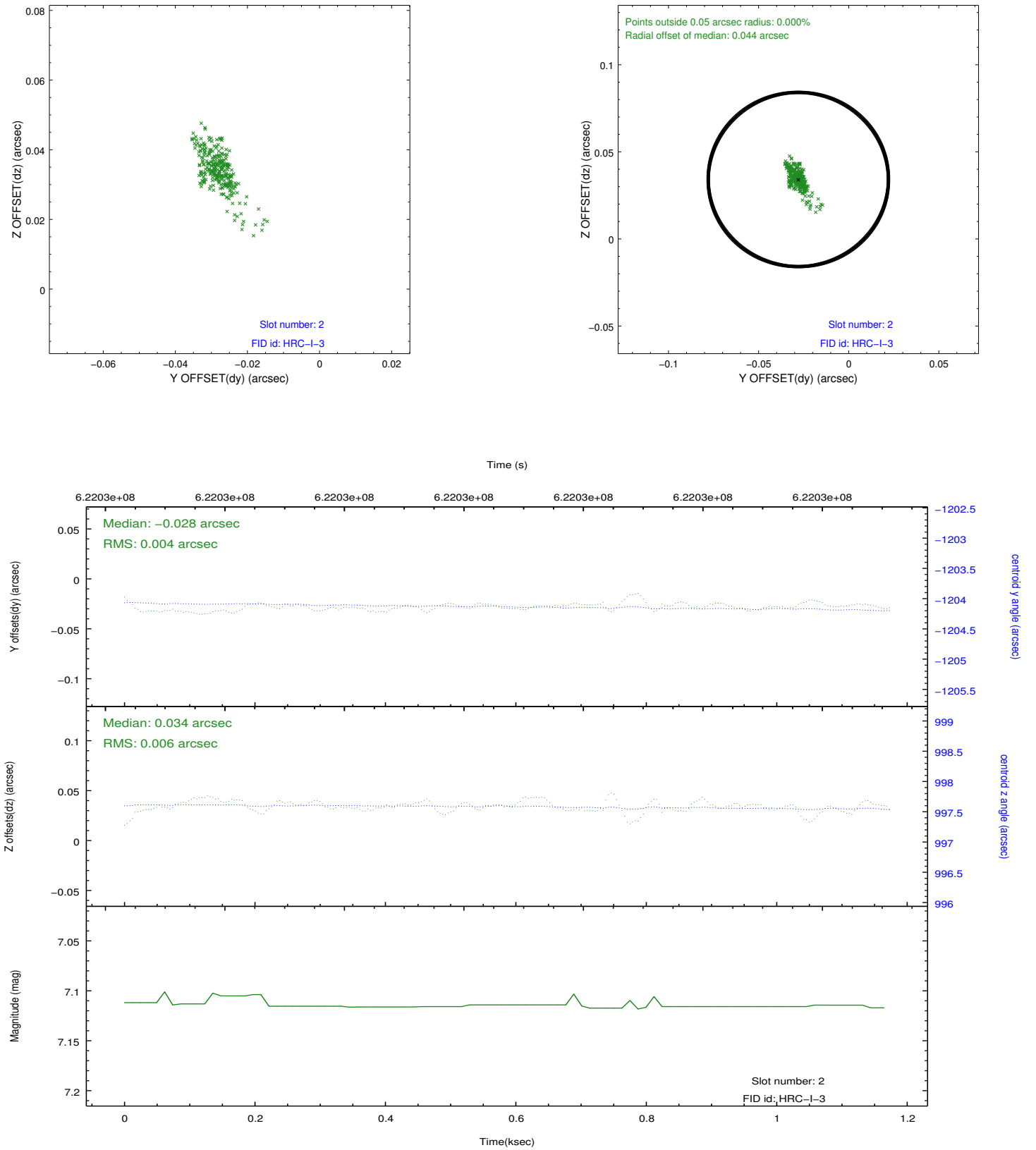
### 2.5.1 Slot 0



## 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)	2017.09.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.1756750688553

### A.2 Comments