

# V&V Reference Report

## L2 ASCDS Version : 8.4.3

Observation 13054 - L2 Version 3  
Chandra X-Ray Center

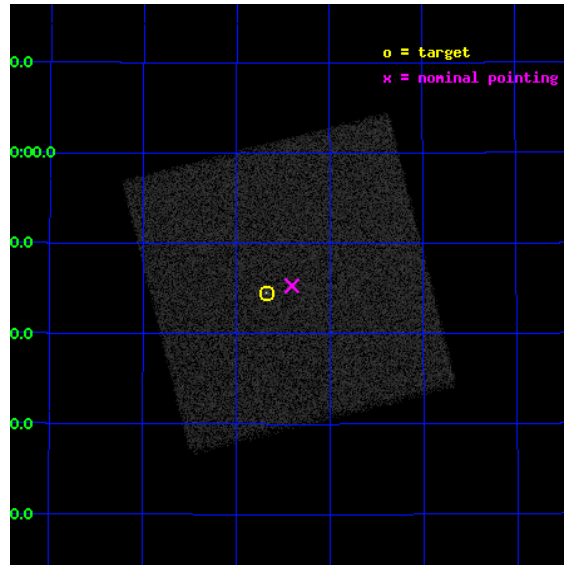
L2 Processing Date : Jul 27 2012

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# 1 Front

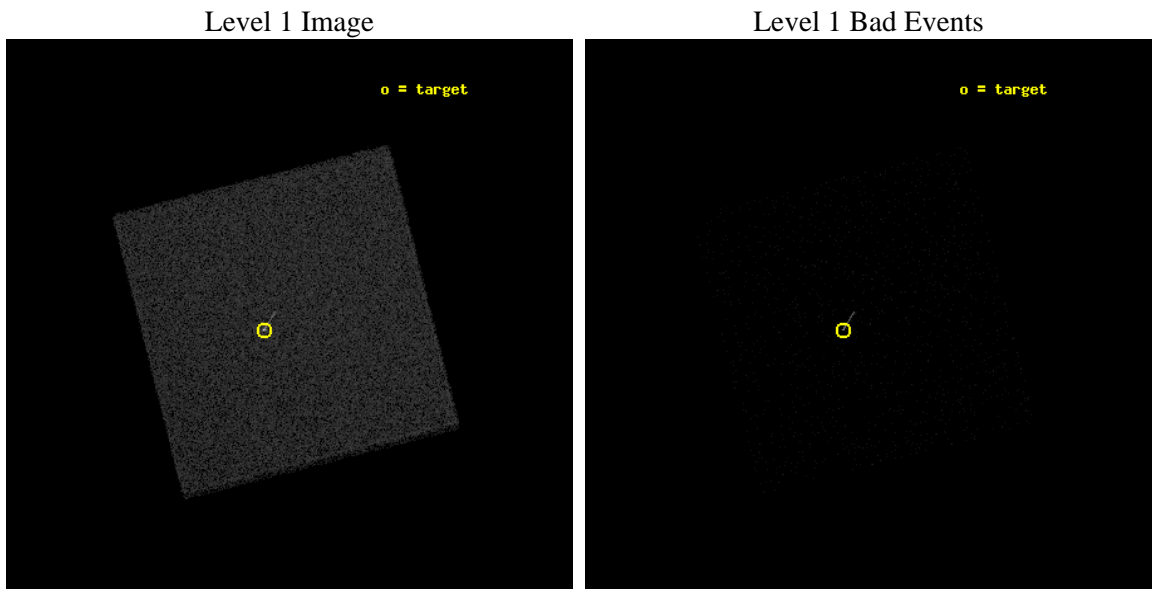
seq_num	290973	Sequence number
obs_id	13054	Observation id
title	AO-12 Calibration Observations to Monitor the Spatial Variations in the HRC-I Gain	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.10124072707	Nominal RA [deg]
dec_nom	45.755440513752	Nominal Dec [deg]
roll_nom	210.75715925775	Nominal Roll [deg]
revision	3	Processing version of data
ontime	1180.0313117504	[s]
livetime	1168.8228545028	Ontime multiplied by DTCOR
l2events	81884	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	8.4.5	Processing system revision	ontime	1180.0313117504	[s]
caldbver	4.5.1	&#160	l1events	143413	Number of level 1 events
date	2012-07-28T01:33:30	Date and time of file creation			
revision	3	Processing version of data			

### 2.1.3 Events

#### Level 1 Events

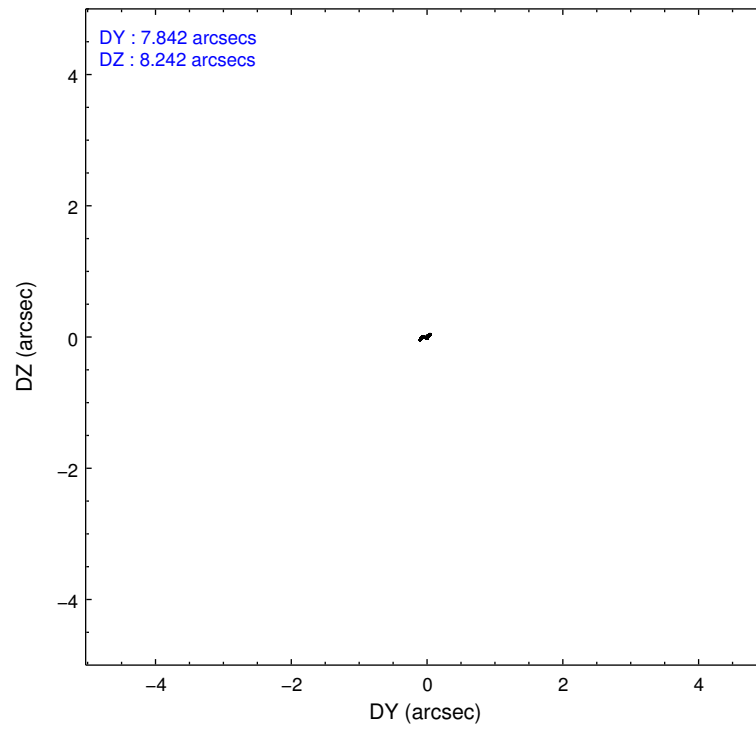
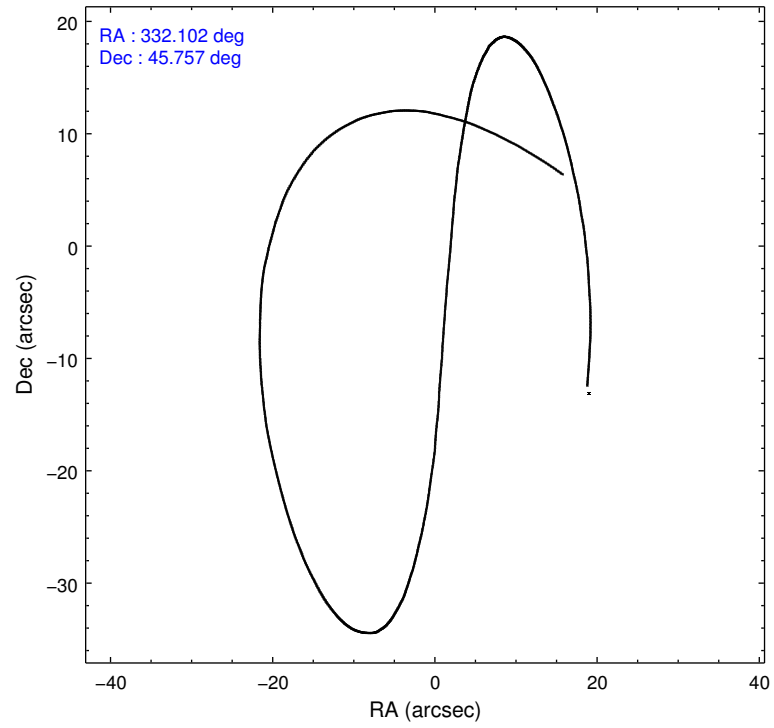
	<b>segment 0</b>
level 1 events	143413
rejected events	31464
rejected %	21%

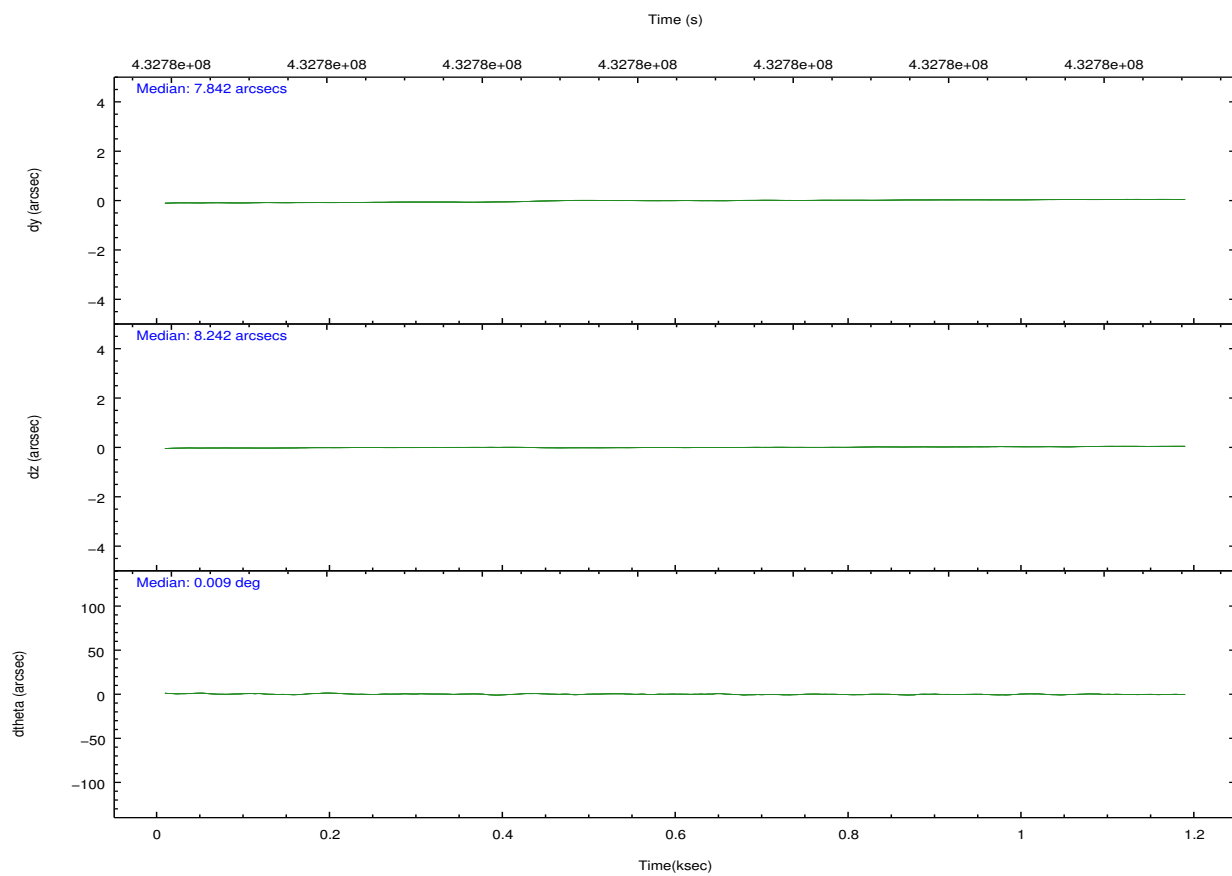
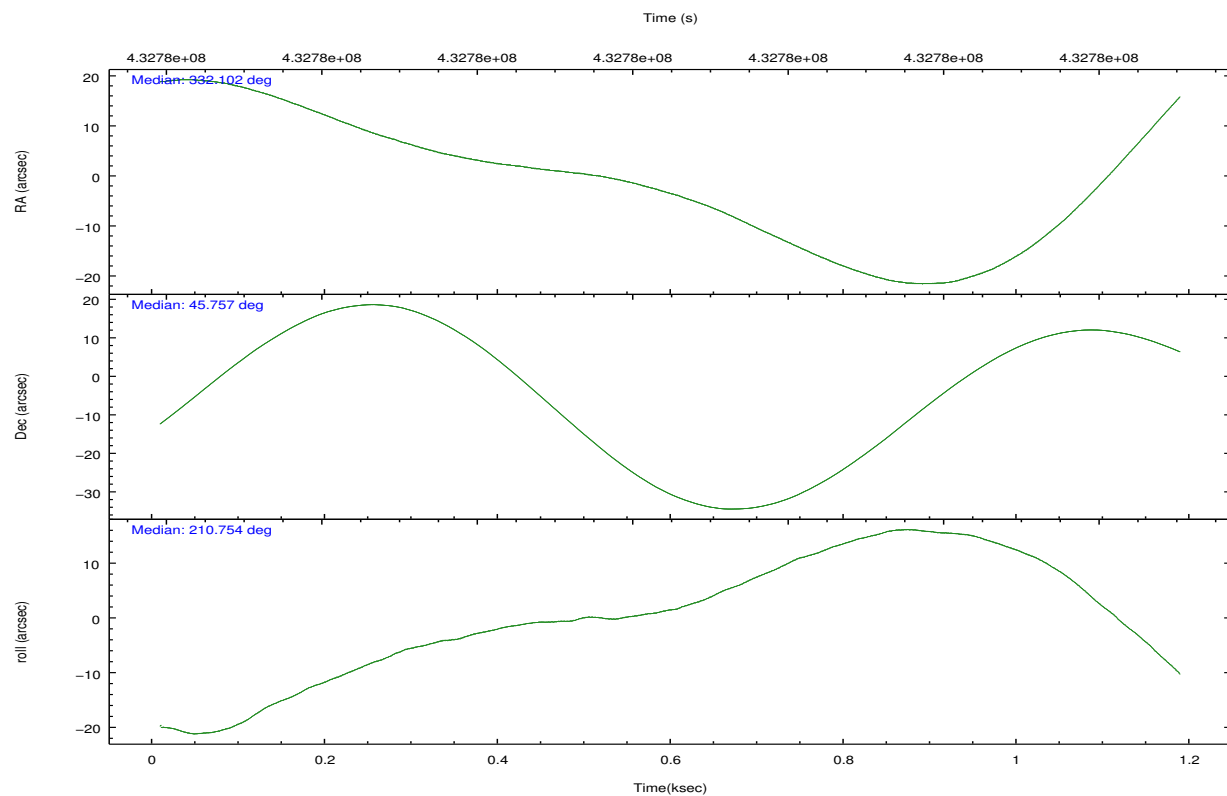
## 2.2 Compared Parameters

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	332.119856	332.1012407270723
[deg] Pointing Dec	45.778491	45.75544051375204
[deg] Pointing Roll	210.839348	210.7571592577481
[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)	432778845.184000	432778469.77313
Observation start date	2011-09-19T00:19:39	2011-09-19T00:14:29
[s] Observation end time (MET)	432779845.184000	432779979.59821
Observation end date	2011-09-19T00:36:19	2011-09-19T00:39:39

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

## 2.3 Aspect





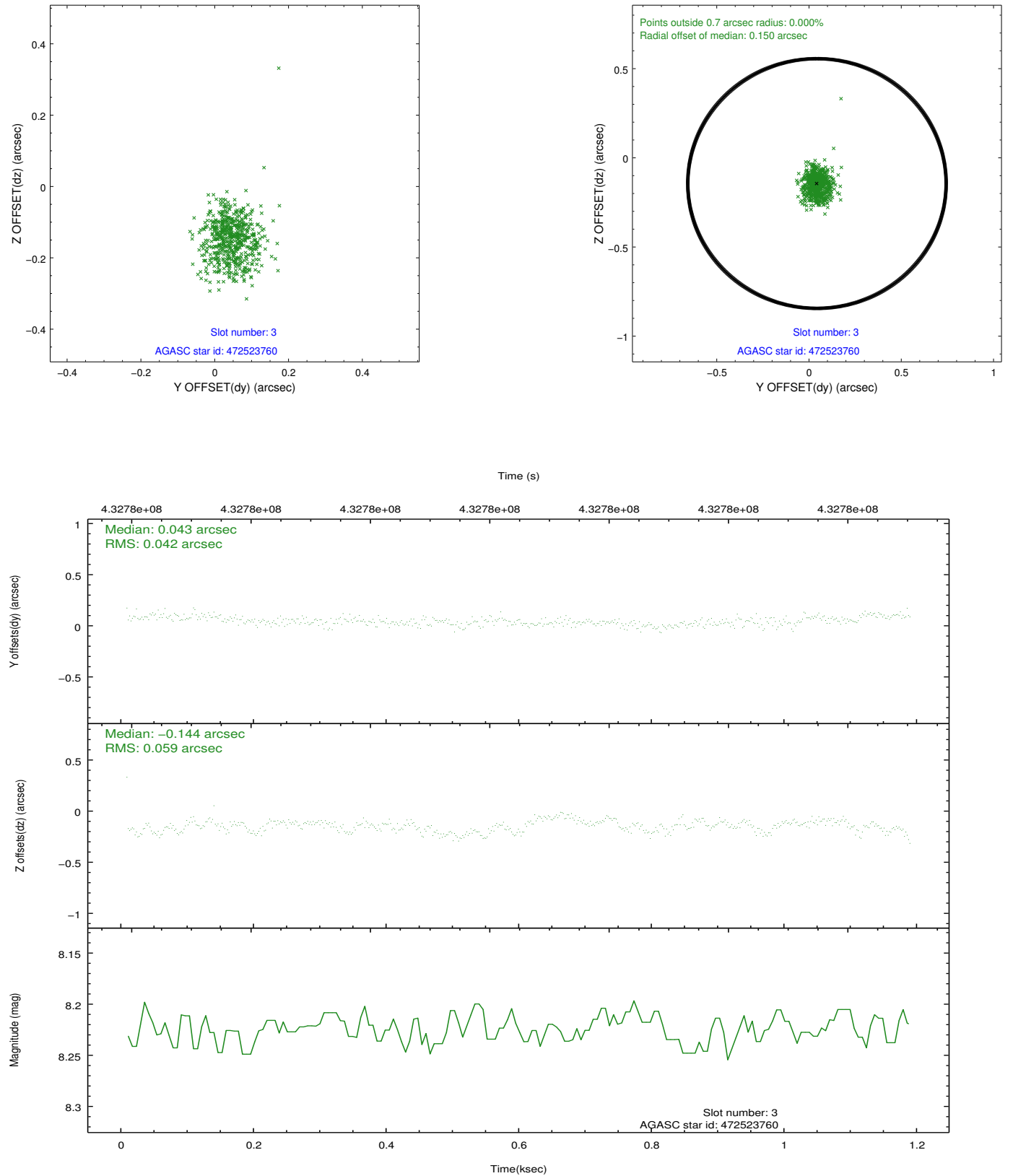
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-I-1	6.96	288	-0.031	0.046	0.007	0.011	0.000000	0.000000	-763.48	-1296.07
1	FID	HRC-I-2	6.99	288	0.212	-0.162	0.006	0.010	0.000000	0.000000	846.74	-1302.37
2	FID	HRC-I-3	7.04	288	-0.062	0.027	0.006	0.012	0.000000	0.000000	-1189.03	1003.96
3	GUIDE	472523760	8.23	577	0.043	-0.144	0.075	0.122	331.645363	45.403260	1721.89	545.66
4	GUIDE	472525528	6.62	577	-0.388	0.031	0.083	0.146	331.551102	45.248694	2216.69	899.10
5	GUIDE	472533912	9.14	576	0.089	0.046	0.122	0.205	331.791136	46.368695	-383.62	-2239.07
6	GUIDE	472665256	9.00	576	0.191	0.223	0.091	0.159	332.808125	46.195041	-2244.31	-414.80
7	GUIDE	472655152	9.41	576	0.054	-0.132	0.127	0.211	332.504239	45.862991	-987.08	233.77

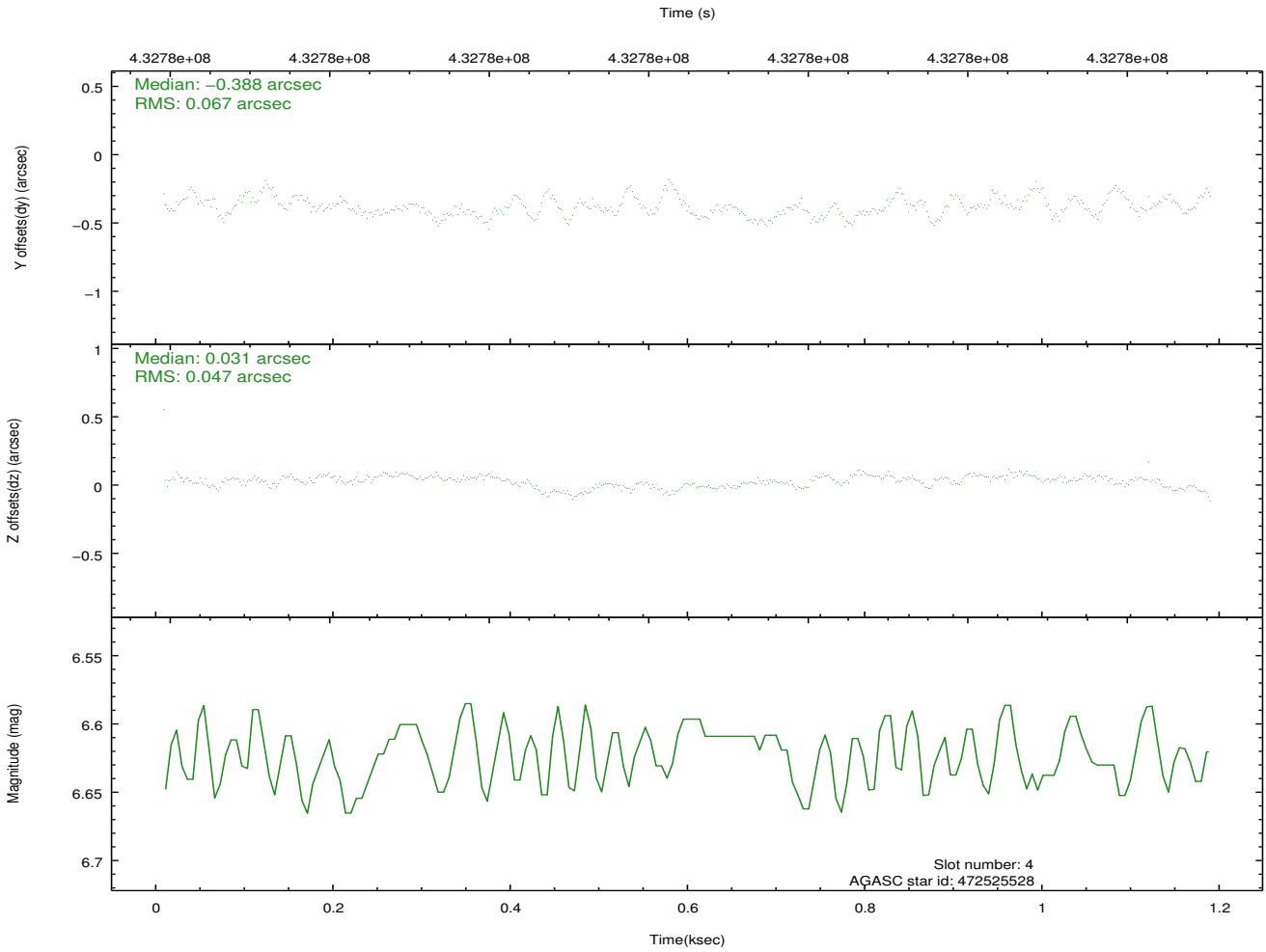
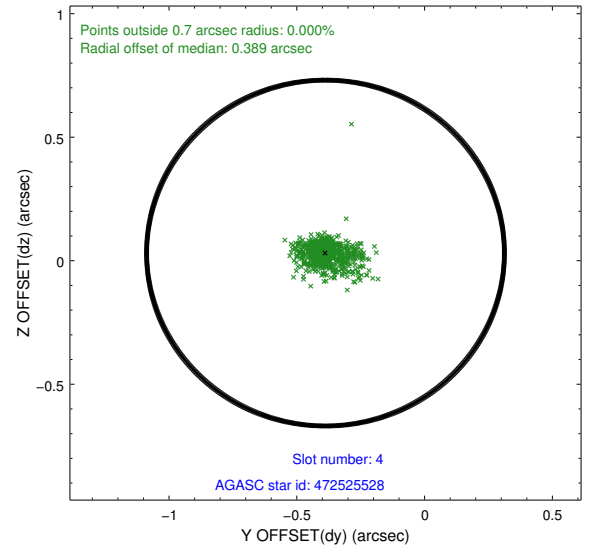
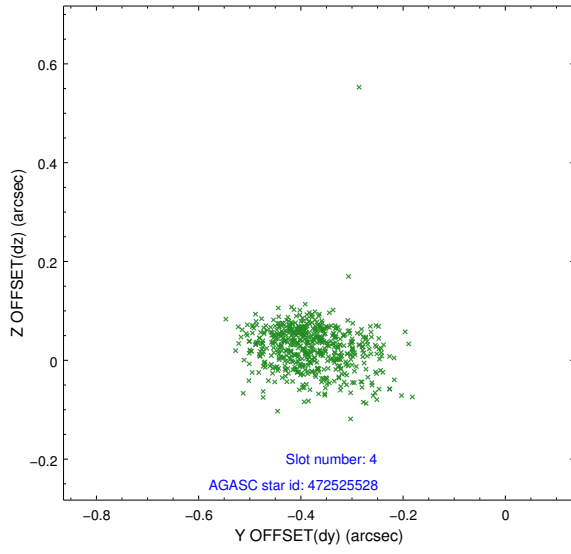


## 2.4 Star Slots

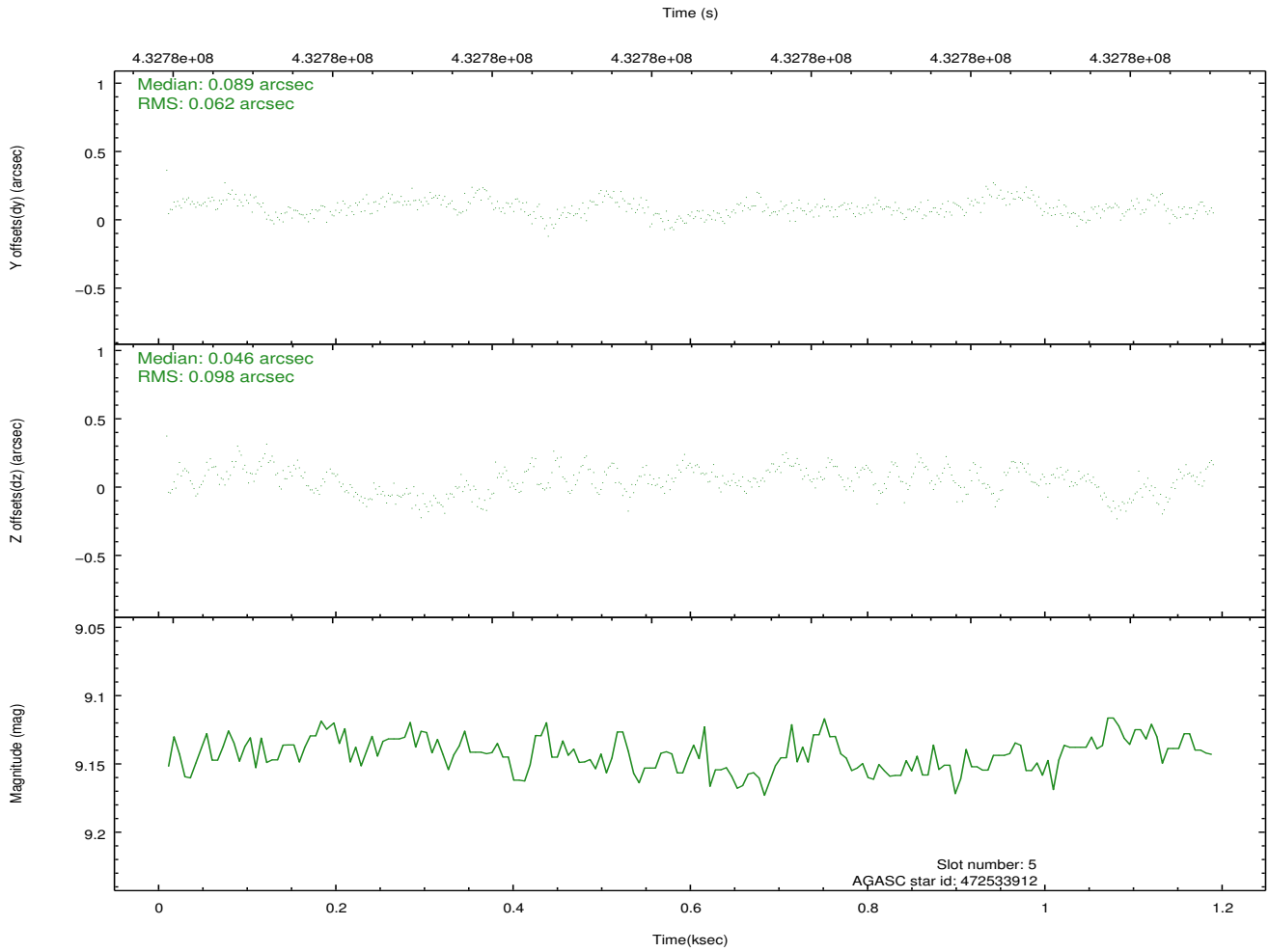
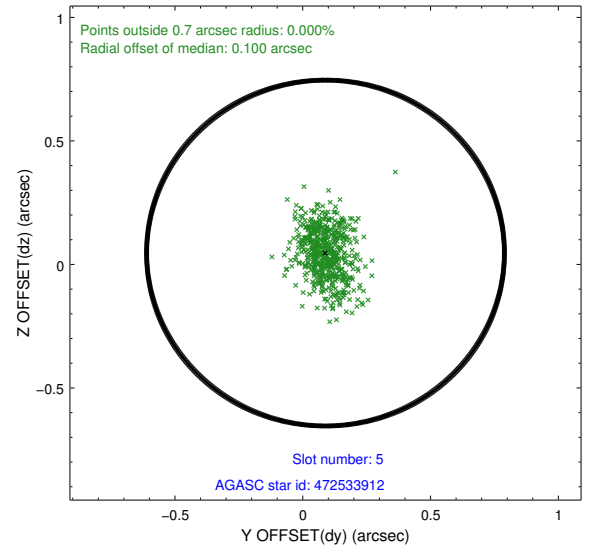
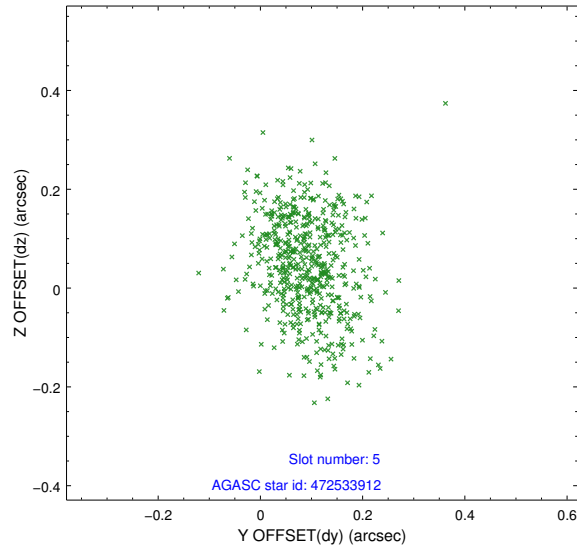
### 2.4.1 Slot 3



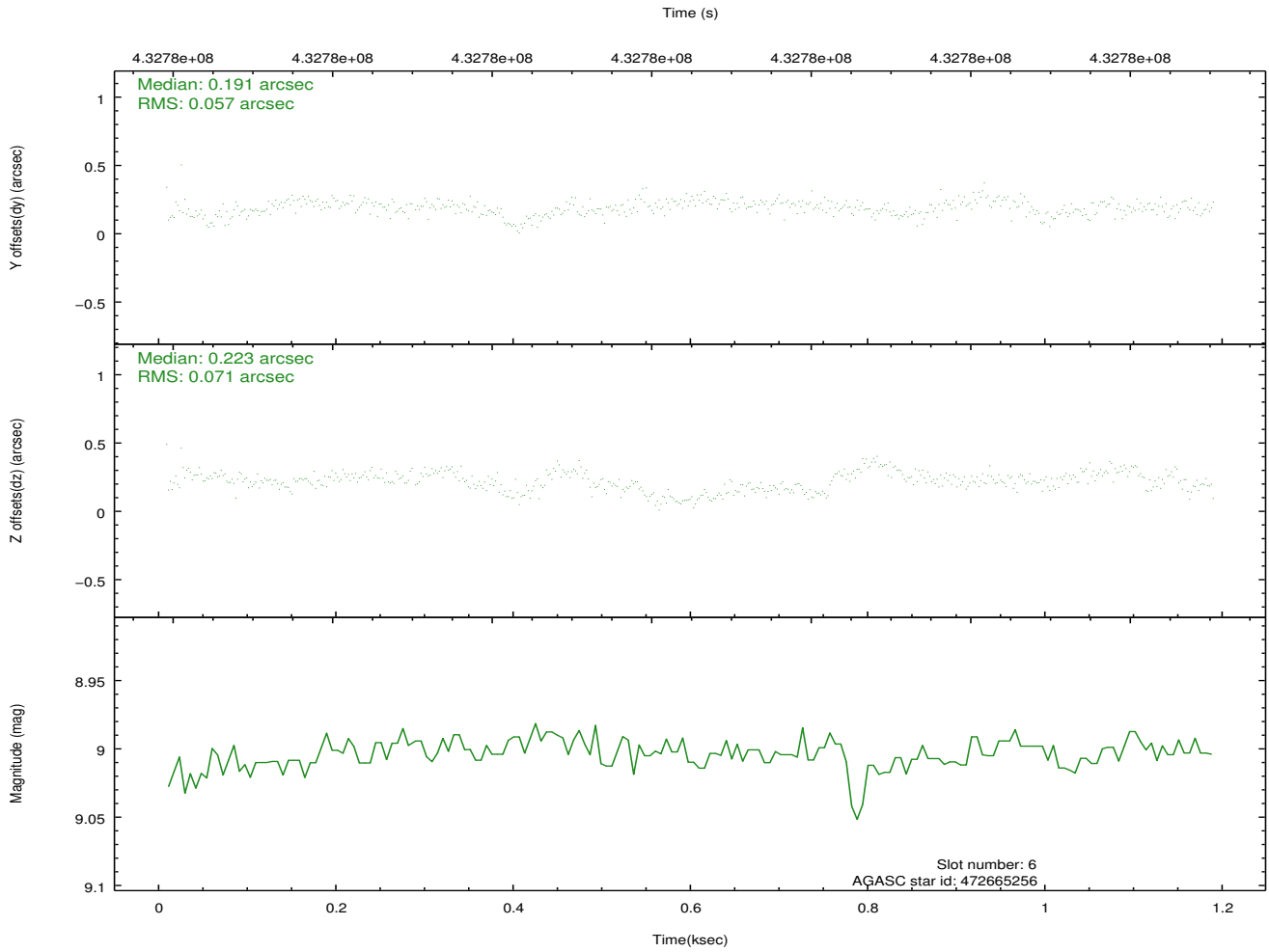
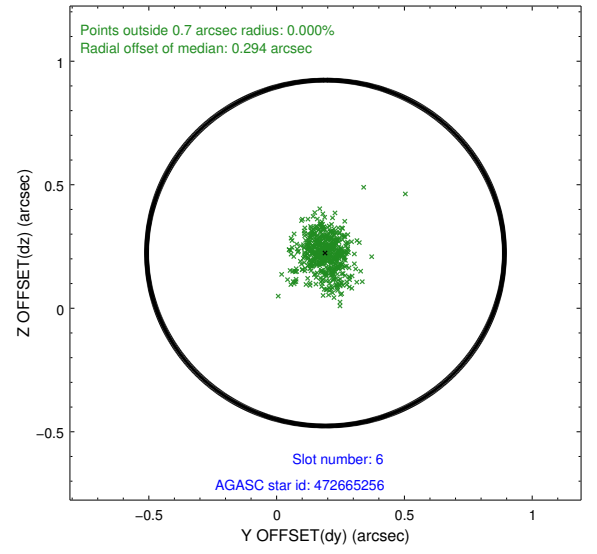
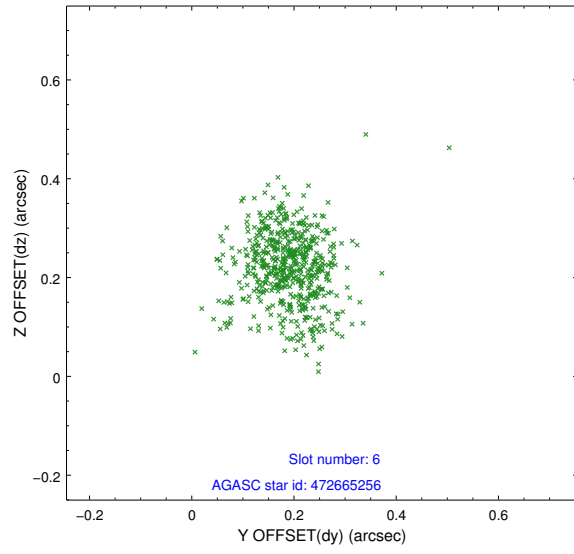
## 2.4.2 Slot 4



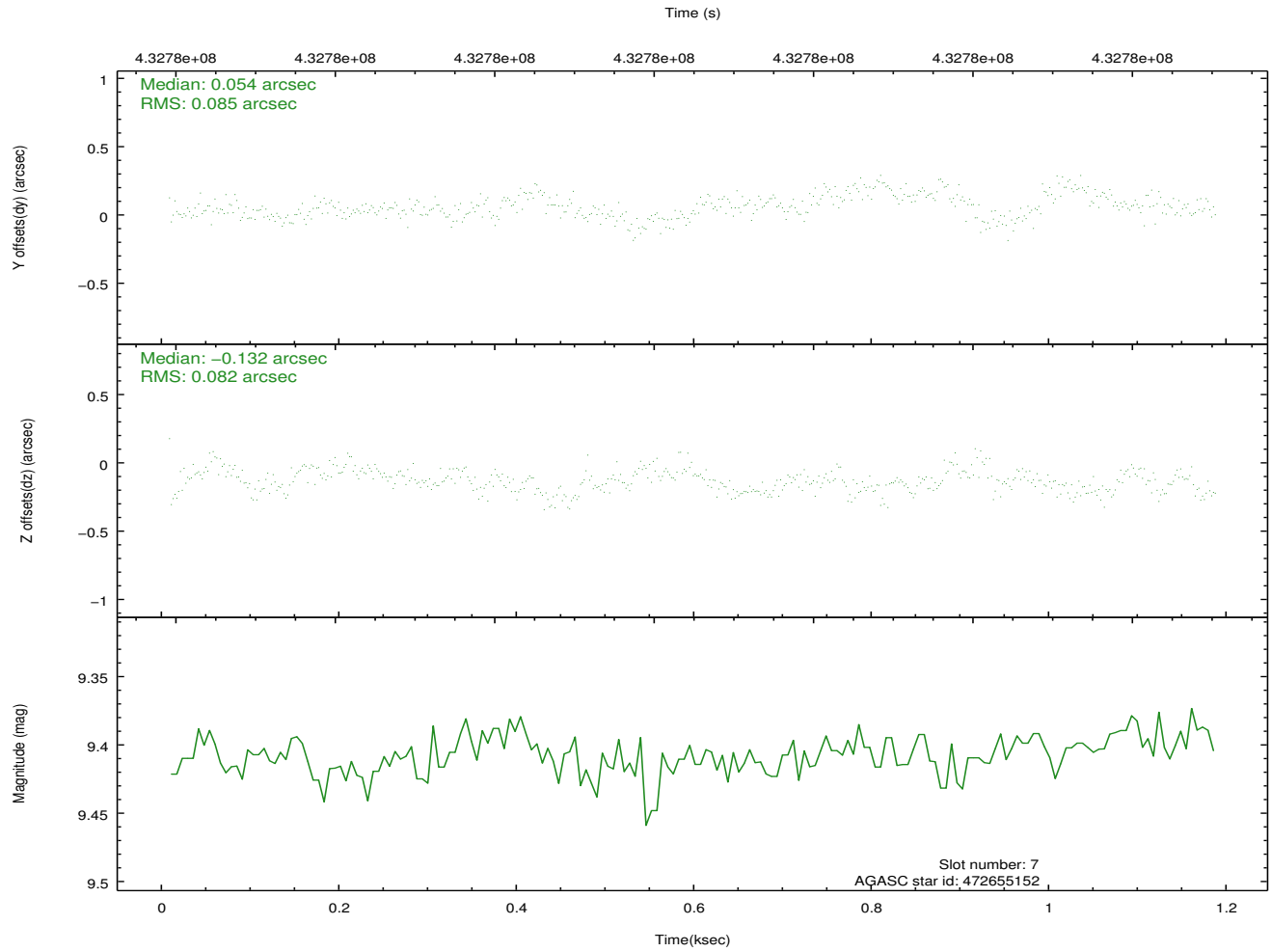
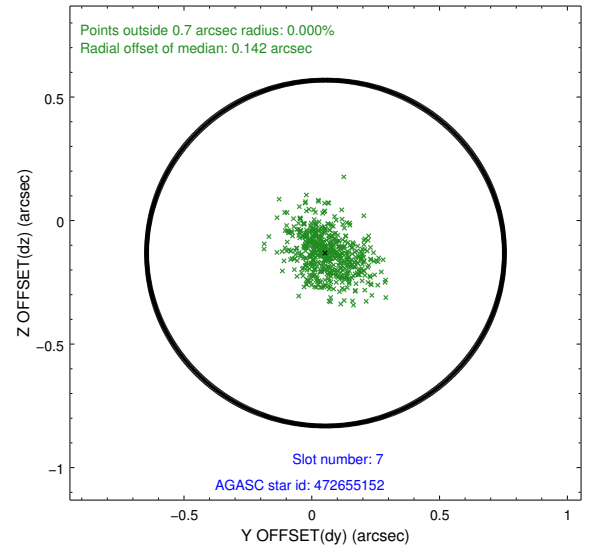
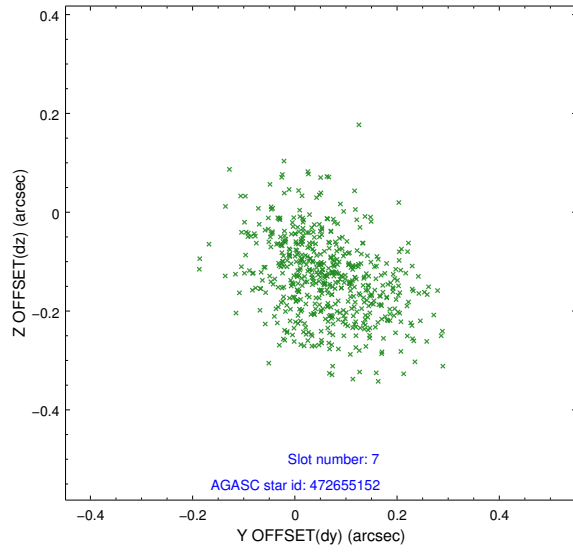
### 2.4.3 Slot 5



## 2.4.4 Slot 6

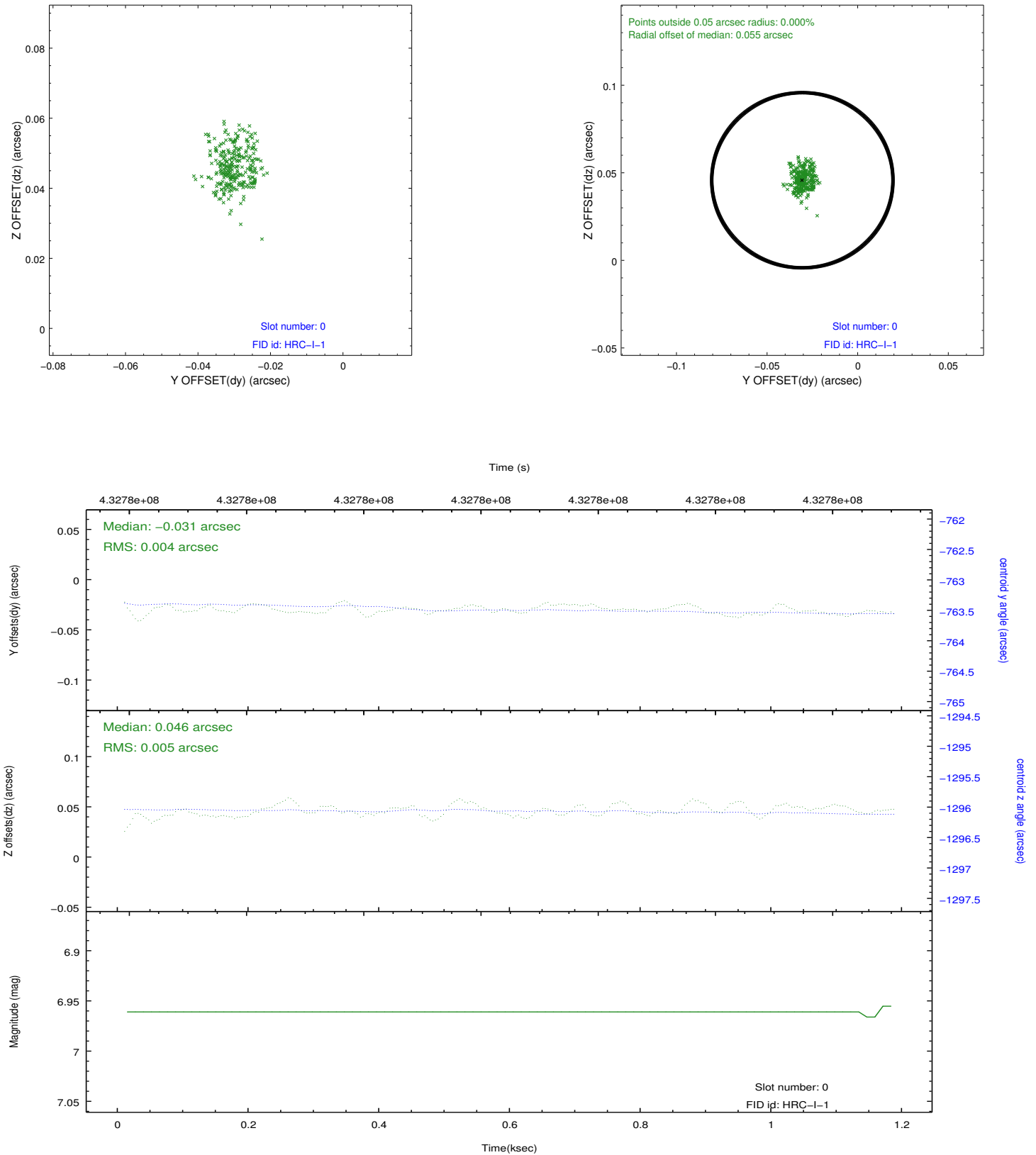


## 2.4.5 Slot 7

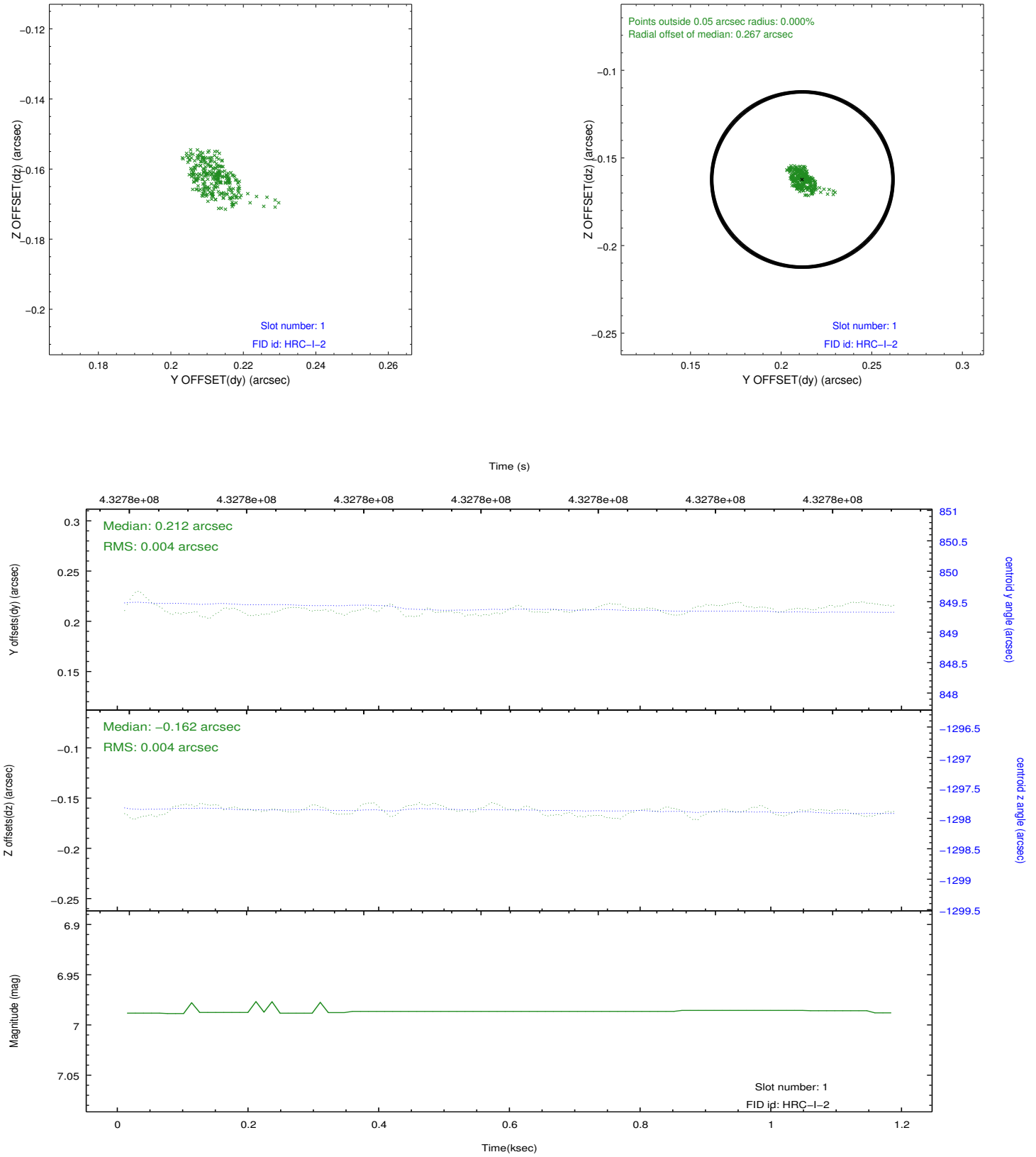


## 2.5 FID Slots

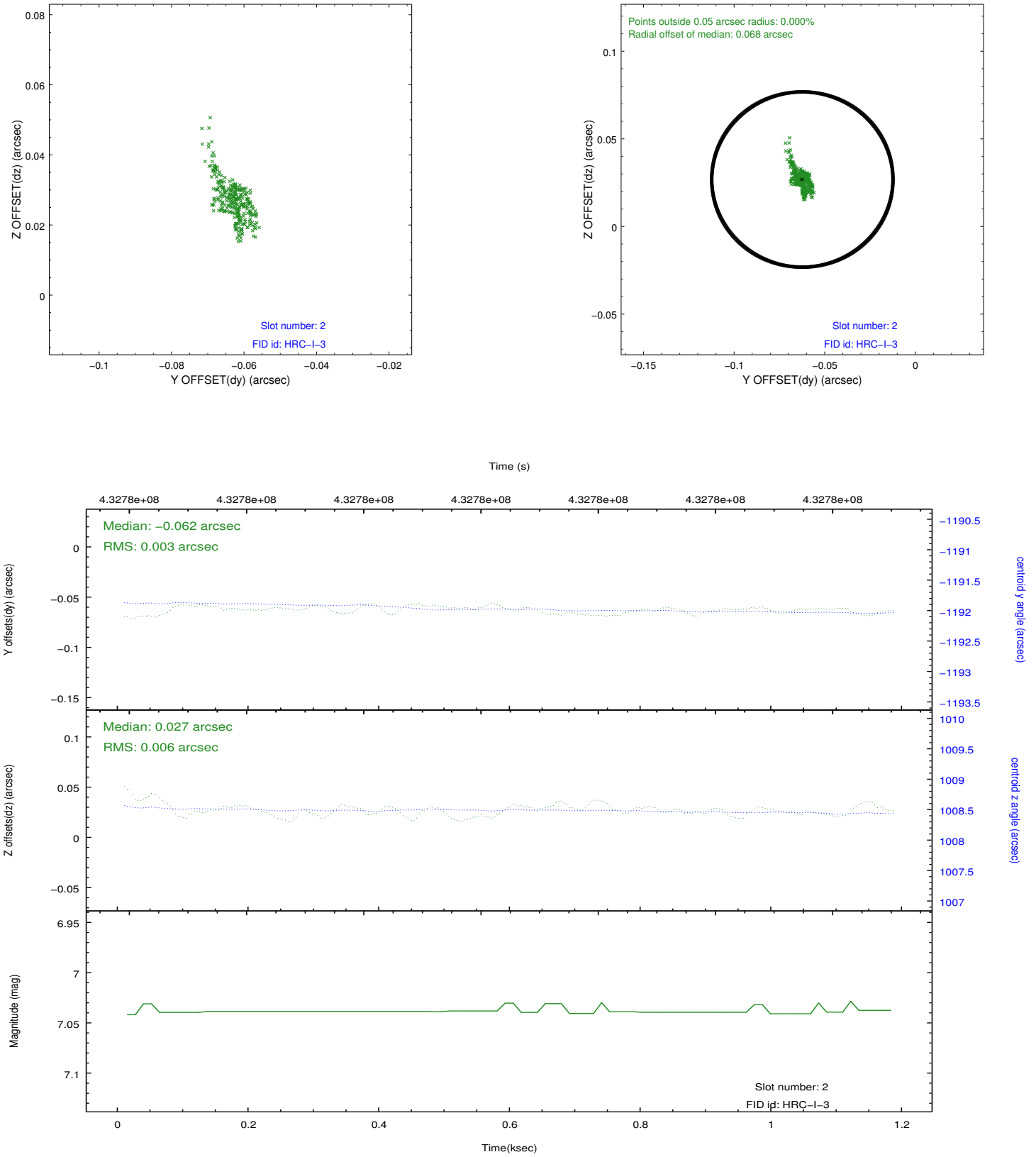
### 2.5.1 Slot 0



## 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)	2012.07.29
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.1797750617266

### A.2 Comments