

# V&V Reference Report

## L2 ASCDS Version : 8.1.1

Observation 1395 - L2 Version 4

Chandra X-Ray Center

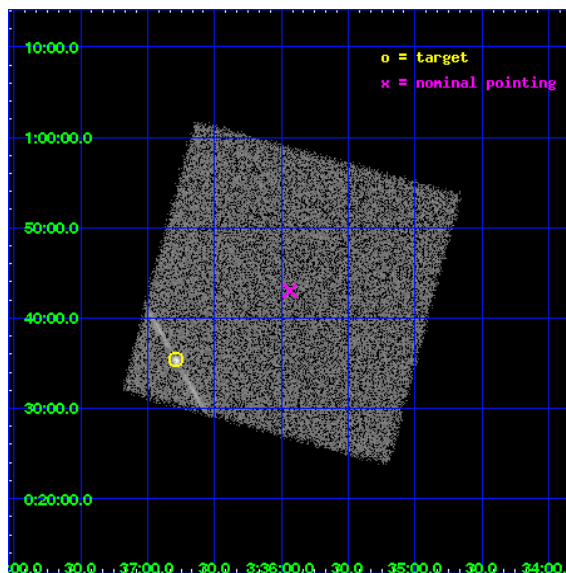
L2 Processing Date : Nov 20 2009

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# 1 Front

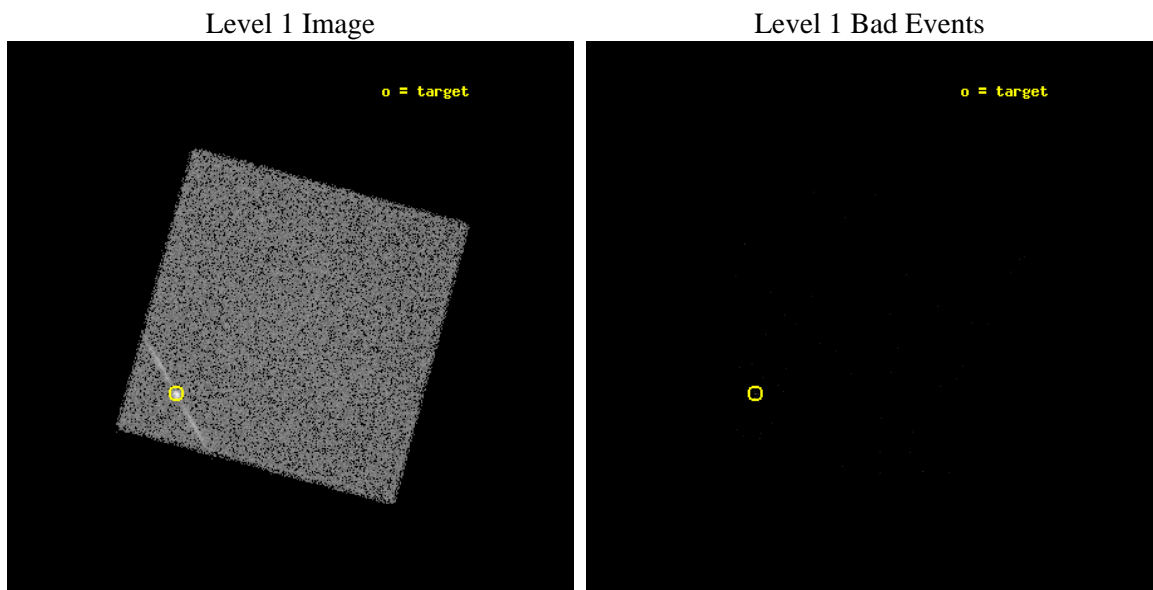
seq_num	280345	Sequence number
obs_id	1395	Observation id
title	&#160	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	HR1099	Source name
ra_targ	54.197083	Observer's specified target RA
dec_targ	0.589972	Observer's specified target Dec
ra_nom	53.983892768924	Nominal RA
dec_nom	0.71667095853422	Nominal Dec
roll_nom	60.309374362076	Nominal Roll
revision	4	Processing version of data
ontime	2275.756332092	[s]
livetime	2261.2570141666	Ontime multiplied by DTCOR
l2events	68647	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	2000.000000	Scheduled observation exposure time
ascdsver	8.1.1	Processing system revision	ontime	2275.756332092	[s]
caldbver	4.1.4	&#160	l1events	107846	Number of level 1 events
date	2009-11-20T16:56:09	Date and time of file creation			
revision	4	Processing version of data			

### 2.1.3 Events

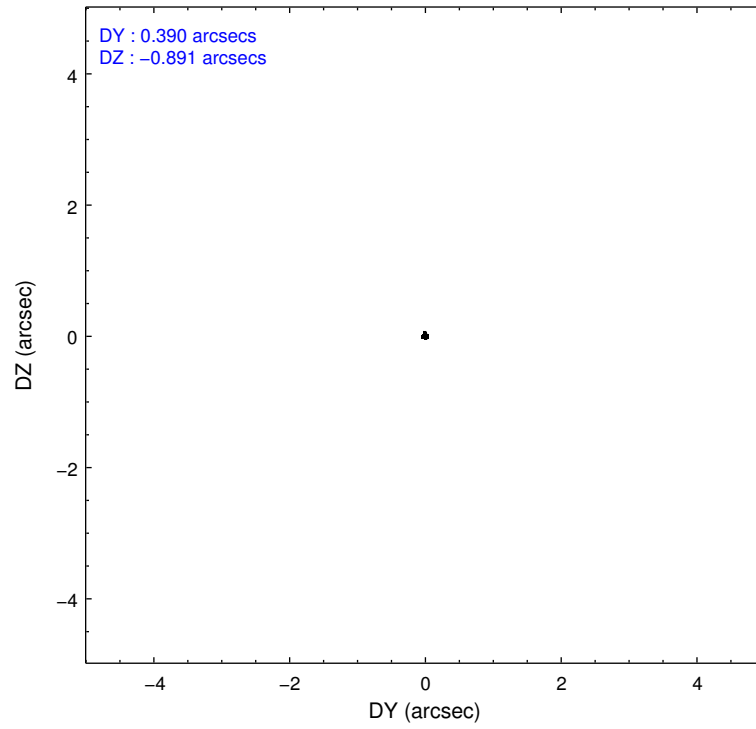
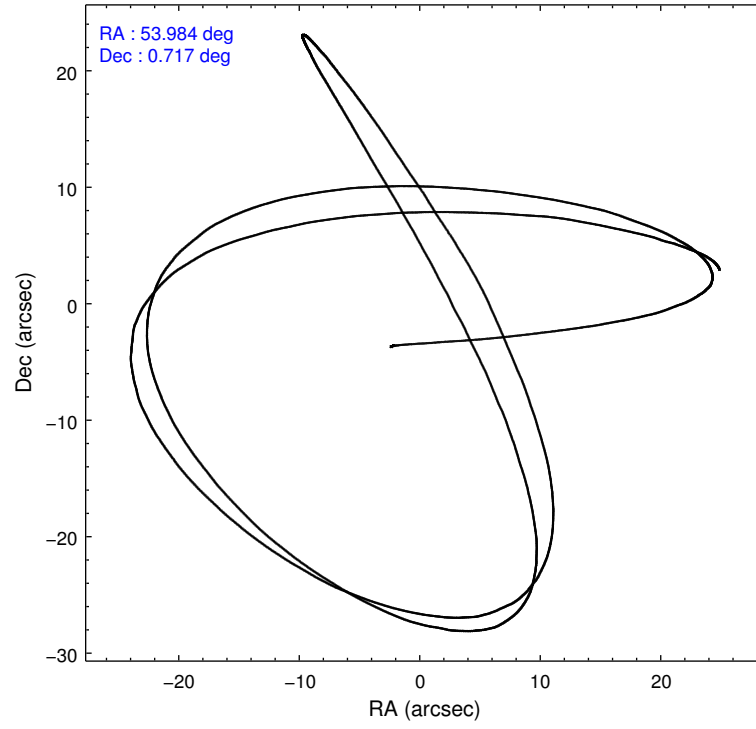
#### Level 1 Events

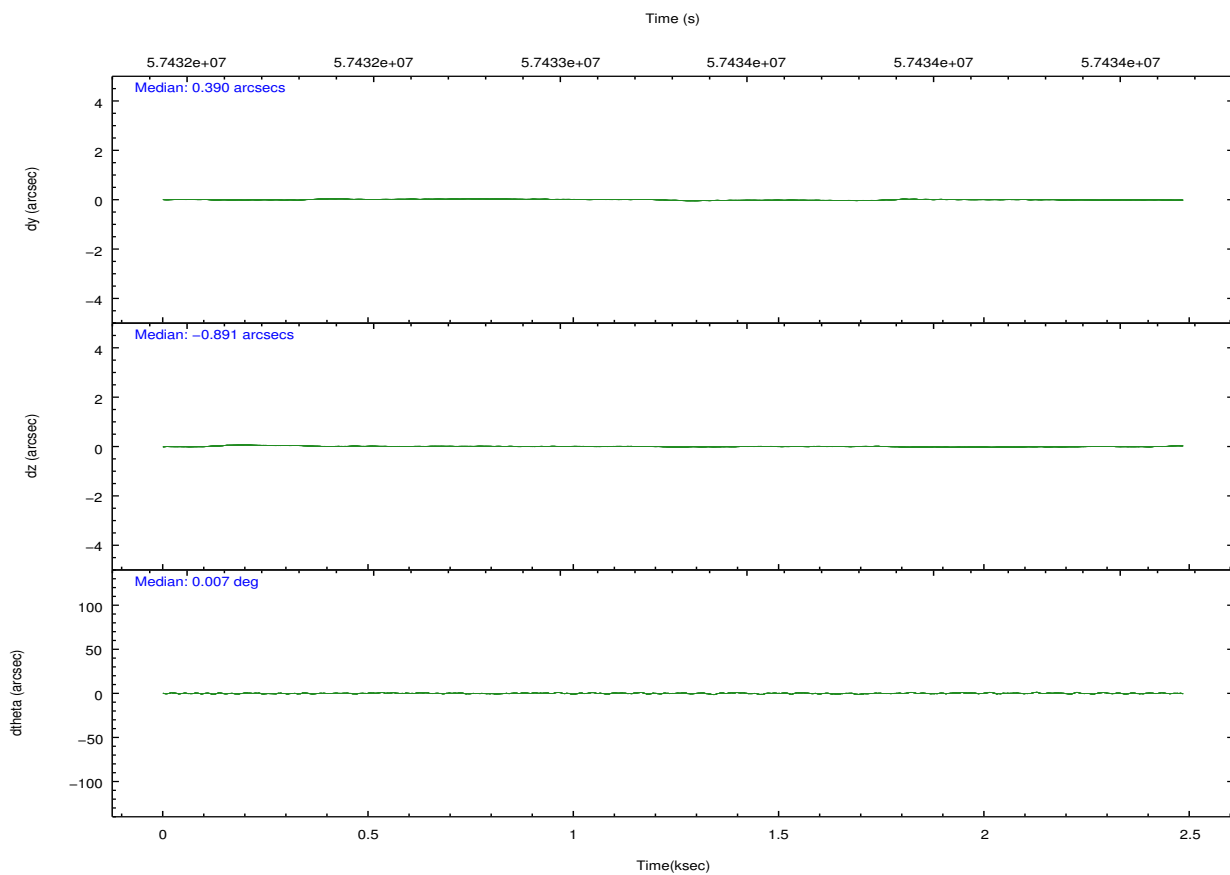
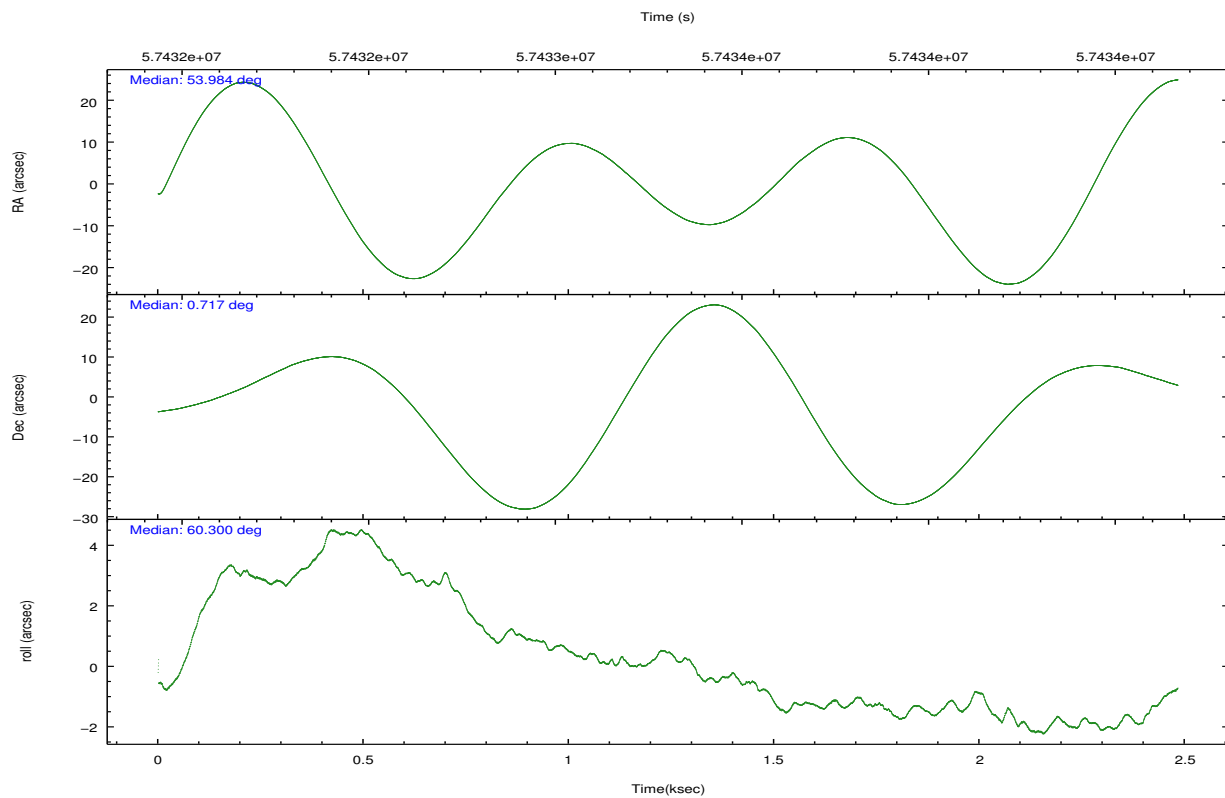
	<b>segment 0</b>
level 1 events	107846
rejected events	2391
rejected %	2%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	HRC	HRC	Obspar format version number	6	6
Detector	HRC-I	HRC-I	Obspar file type	PREDICTED	ACTUAL
Grating	LETG	LETG	Obspar update status	NONE	UPDATED
Data mode	OBSERVING	OBSERVING			
Observation mode	POINTING	POINTING			
Pointing RA	53.983764	53.98389276892448			
Pointing Dec	0.688896	0.7166709585342211			
Pointing Roll	60.404858	60.30937436207566			
SIM focus pos (mm)	-1.040293	-1.038866356238299			
SIM defocus (mm)	0	0.001426264420575141			
SIM translation stage pos (mm)	126.985494	126.9854943052878			
SIM translation stage offset (mm)	0	-5.413686238853188e-06			
Observation start time	57432545.184000	57431879.343931			
Observation start date	1999-10-27T17:28:01	1999-10-27T17:17:59			
Observation end time	57434545.184000	57436040.331581			
Observation end date	1999-10-27T18:01:21	1999-10-27T18:27:20			

## 2.3 Aspect



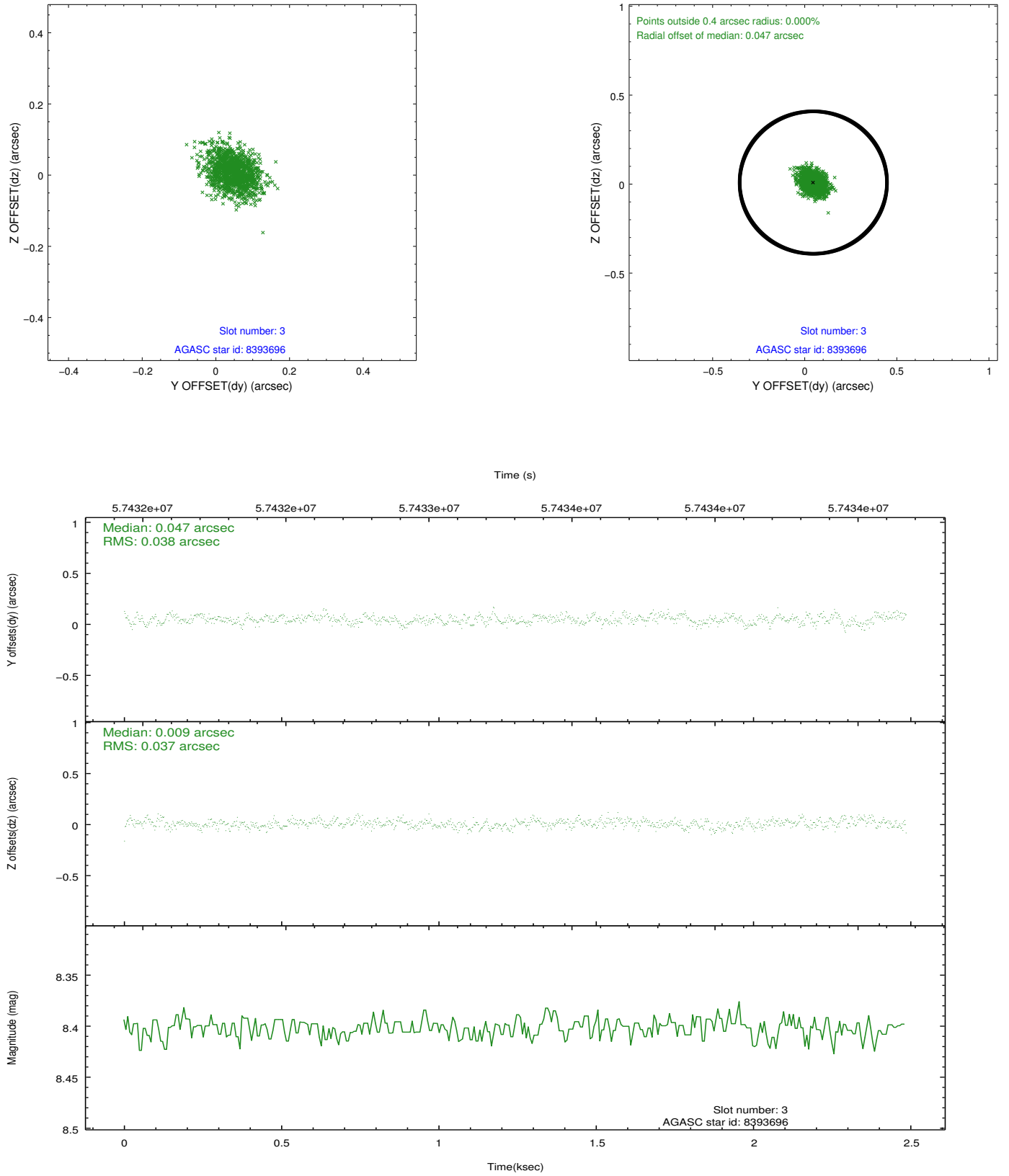


Slot Statistics

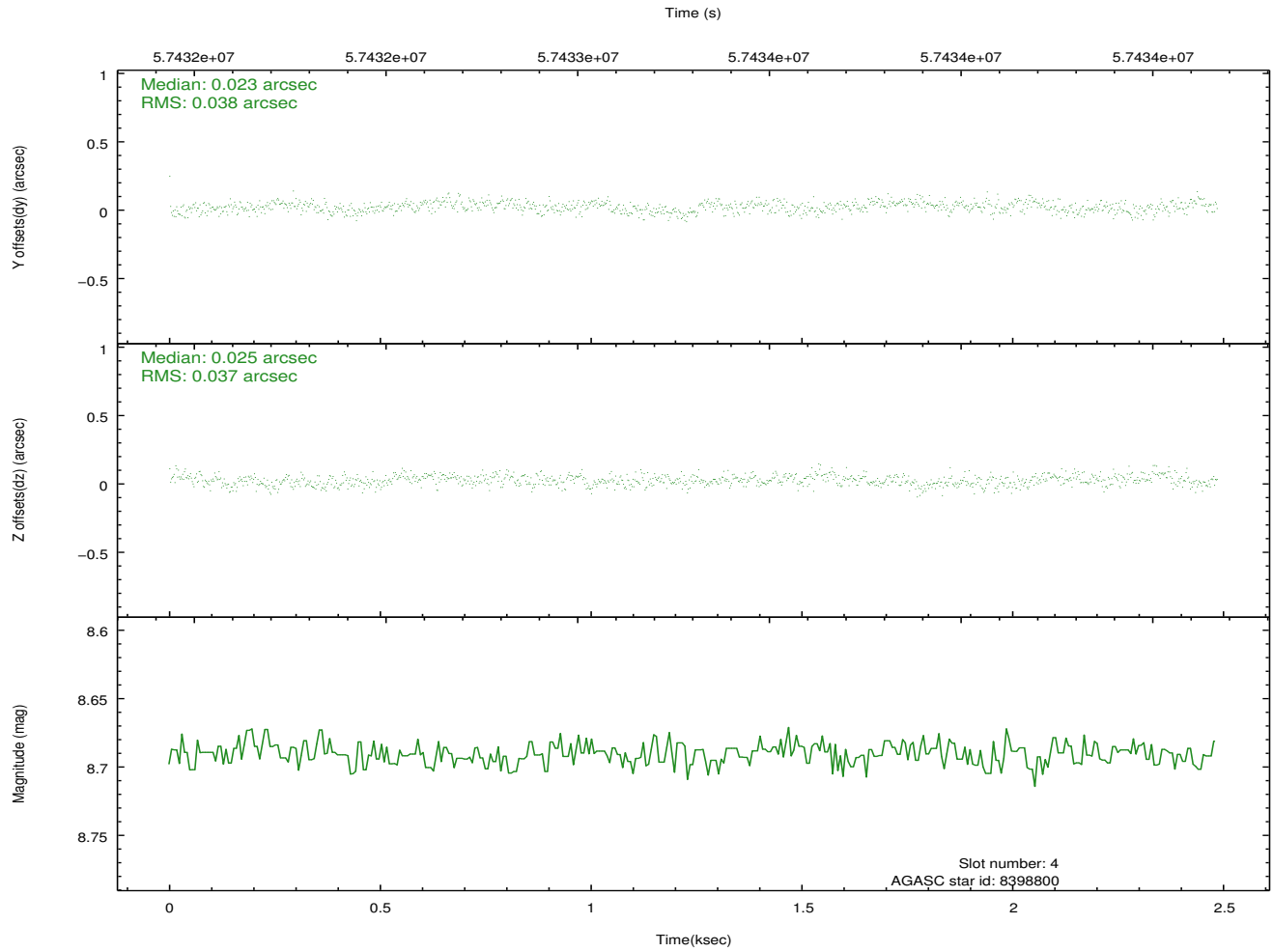
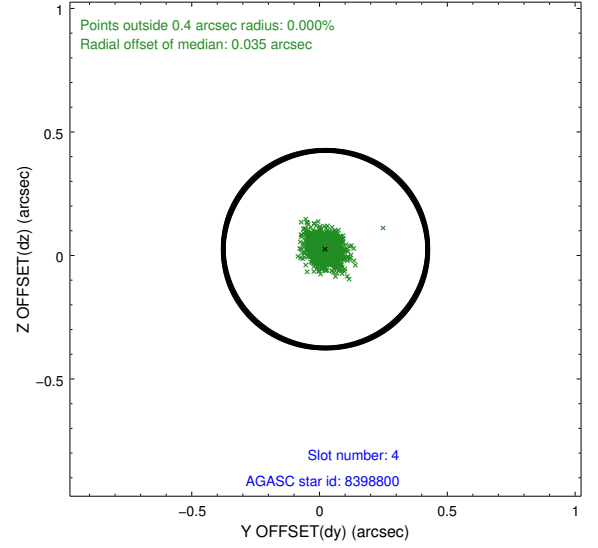
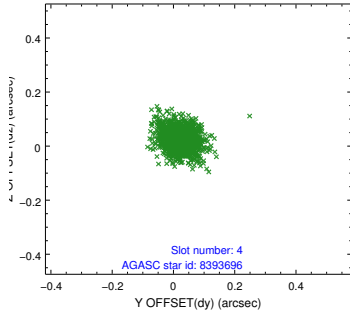
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-I-2	6.99	1213	0.053	-0.067	0.006	0.010	0.000000	0.000000	856.92	-1288.40
1	FID	HRC-I-3	7.04	1213	0.038	-0.010	0.006	0.010	0.000000	0.000000	-1183.56	1016.68
2	FID	HRC-I-4	6.98	1213	0.027	-0.010	0.006	0.009	0.000000	0.000000	1286.03	1016.24
3	GUIDE	8393696	8.40	1213	0.047	0.009	0.055	0.093	53.645666	0.680479	-628.87	1045.39
4	GUIDE	8398800	8.69	1213	0.023	0.025	0.056	0.094	54.242352	0.922024	1187.69	-391.66
5	GUIDE	8390744	9.01	1213	-0.036	-0.020	0.074	0.120	53.677290	0.926294	197.71	1383.17
6	GUIDE	8395104	8.68	1213	-0.021	0.065	0.081	0.127	54.744893	0.796520	1689.39	-2187.32
7	GUIDE	8399352	9.93	1205	-0.016	-0.075	0.107	0.169	53.946831	1.204693	1548.78	1033.07

## 2.4 Star Slots

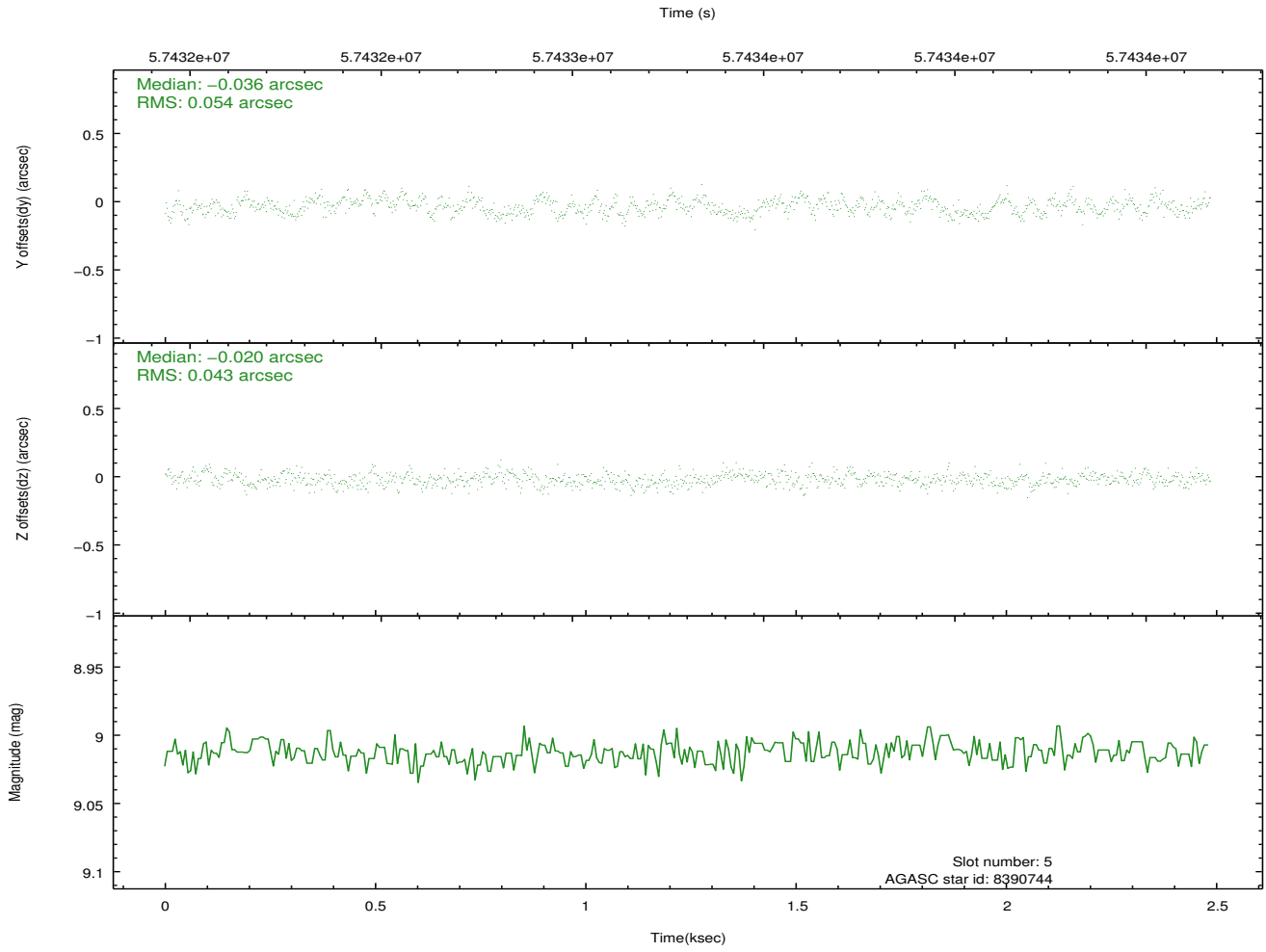
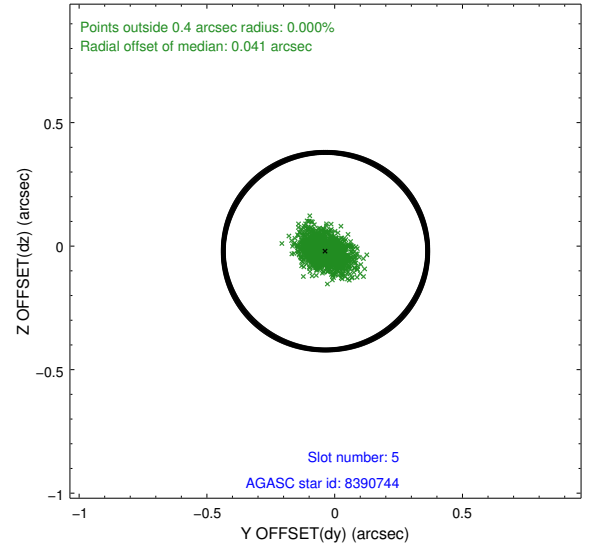
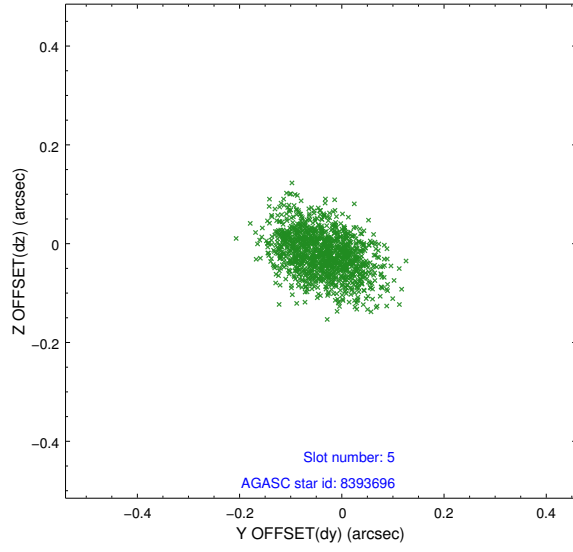
### 2.4.1 Slot 3



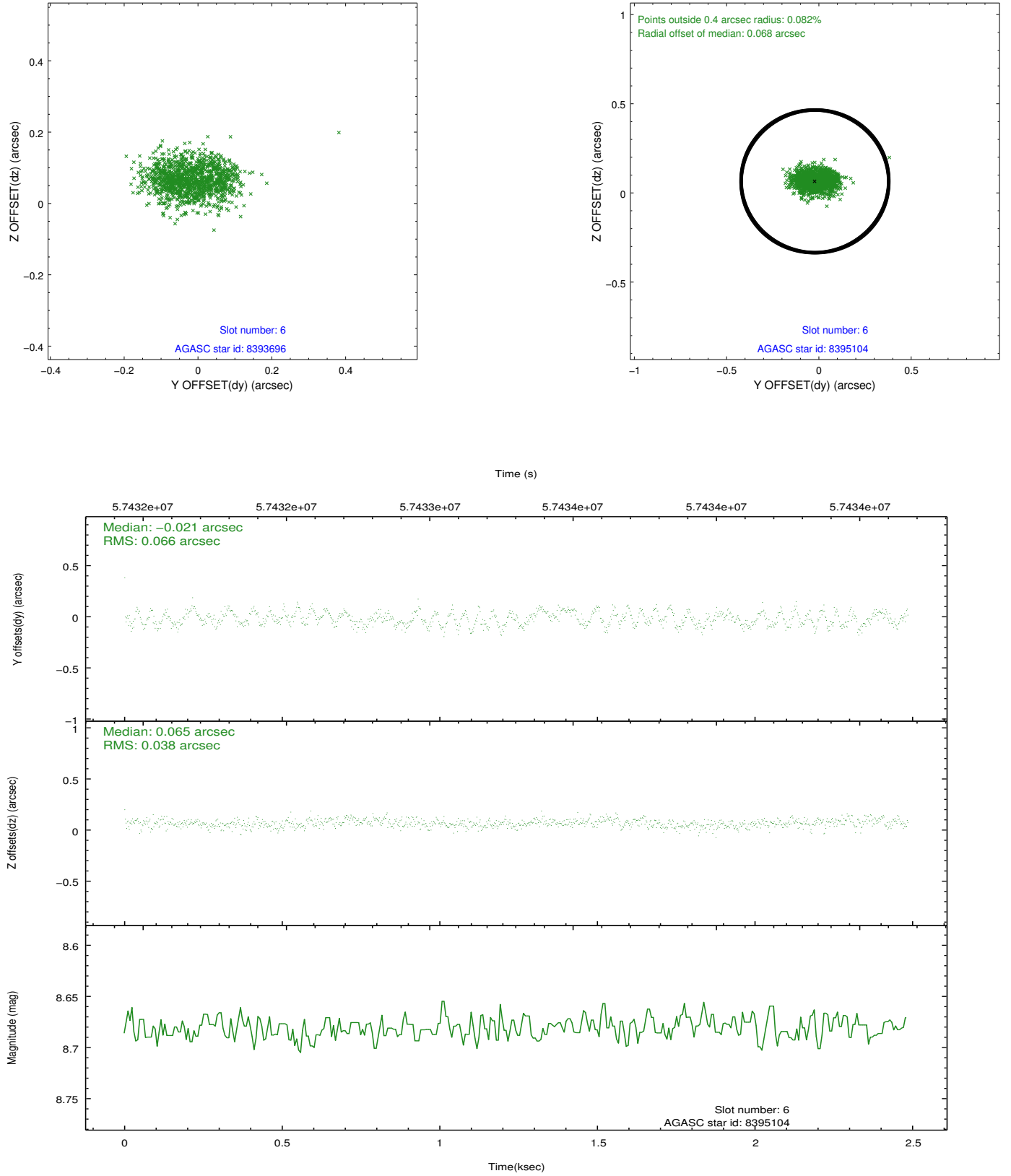
## 2.4.2 Slot 4



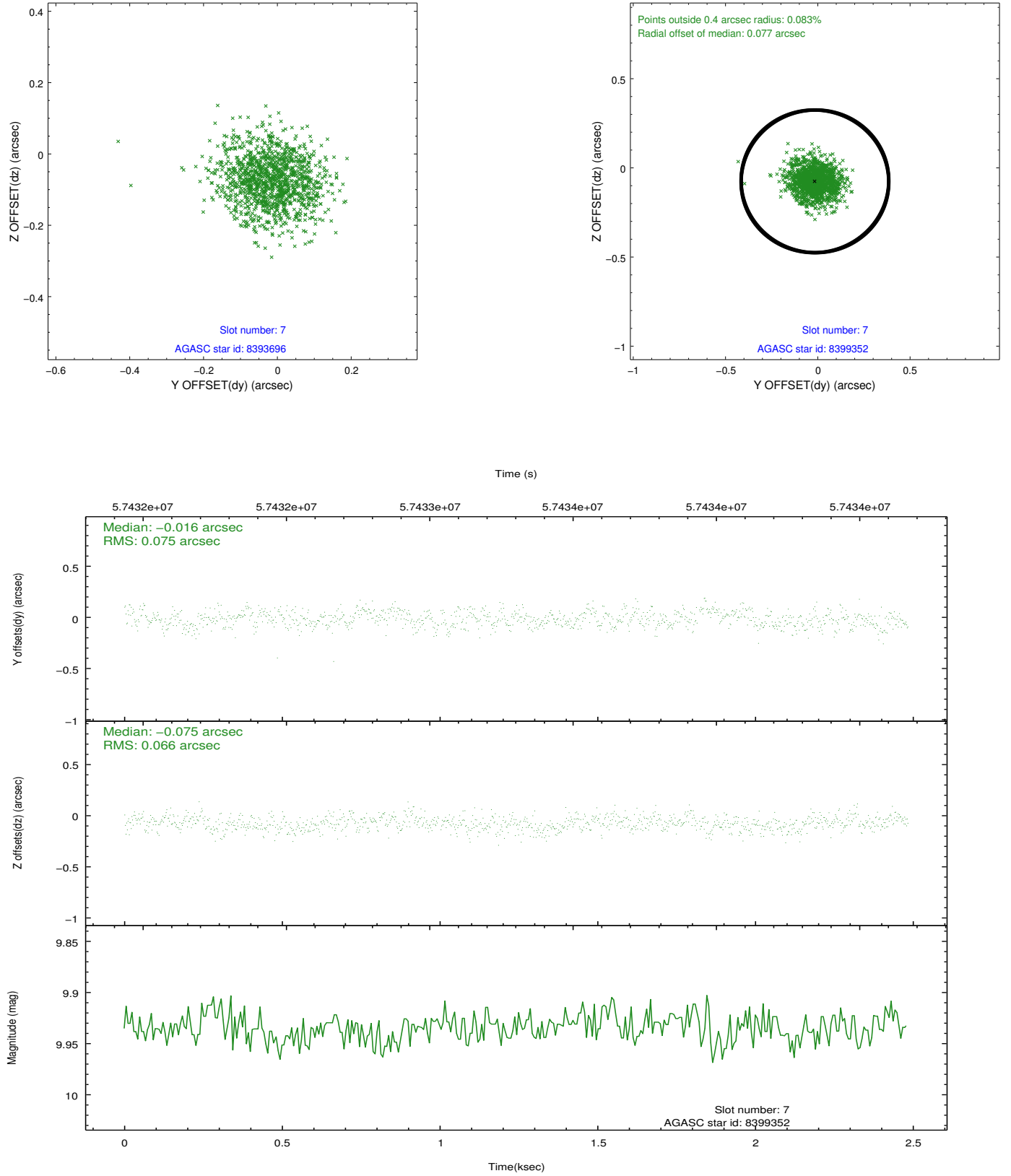
## 2.4.3 Slot 5



## 2.4.4 Slot 6

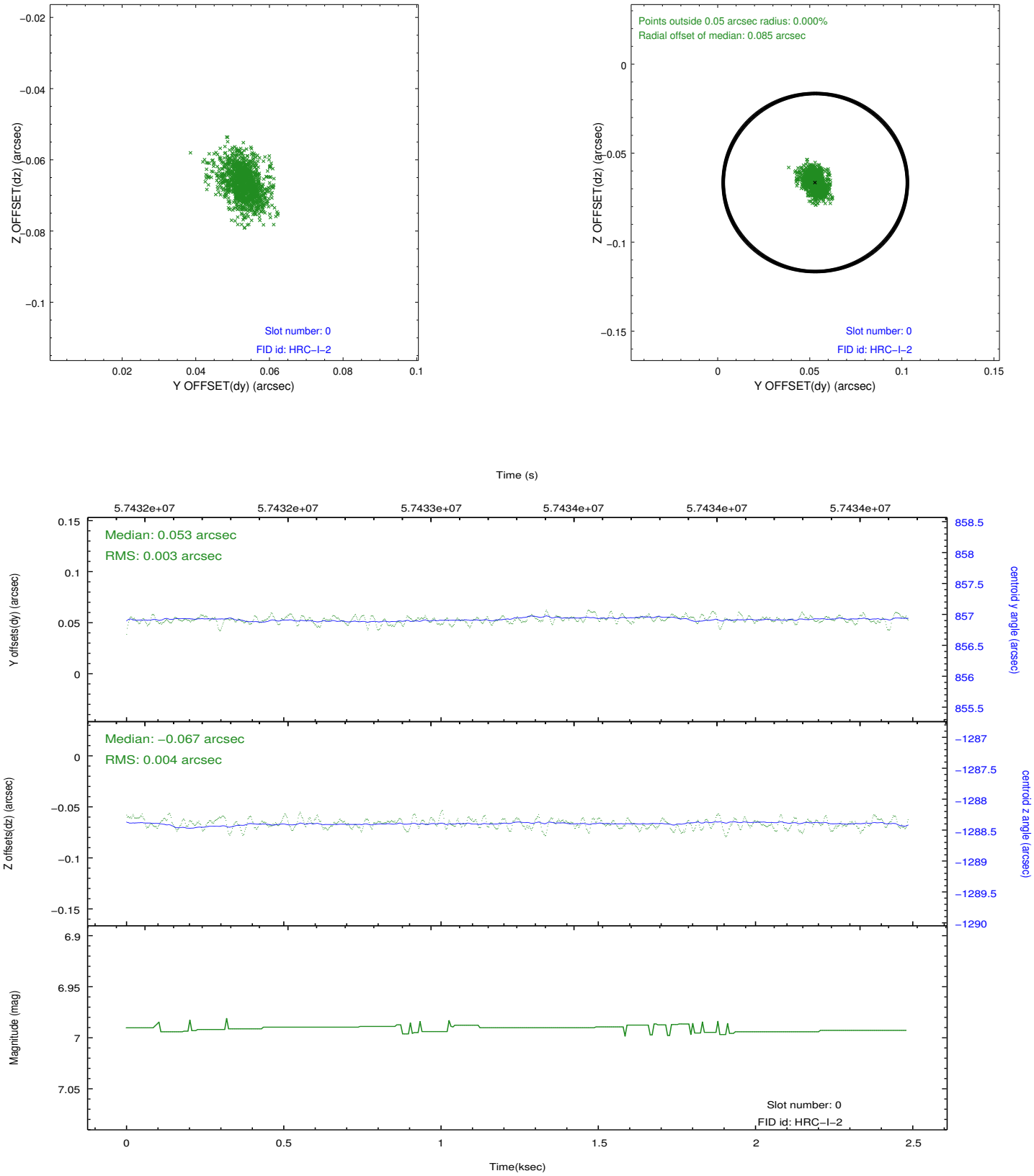


## 2.4.5 Slot 7

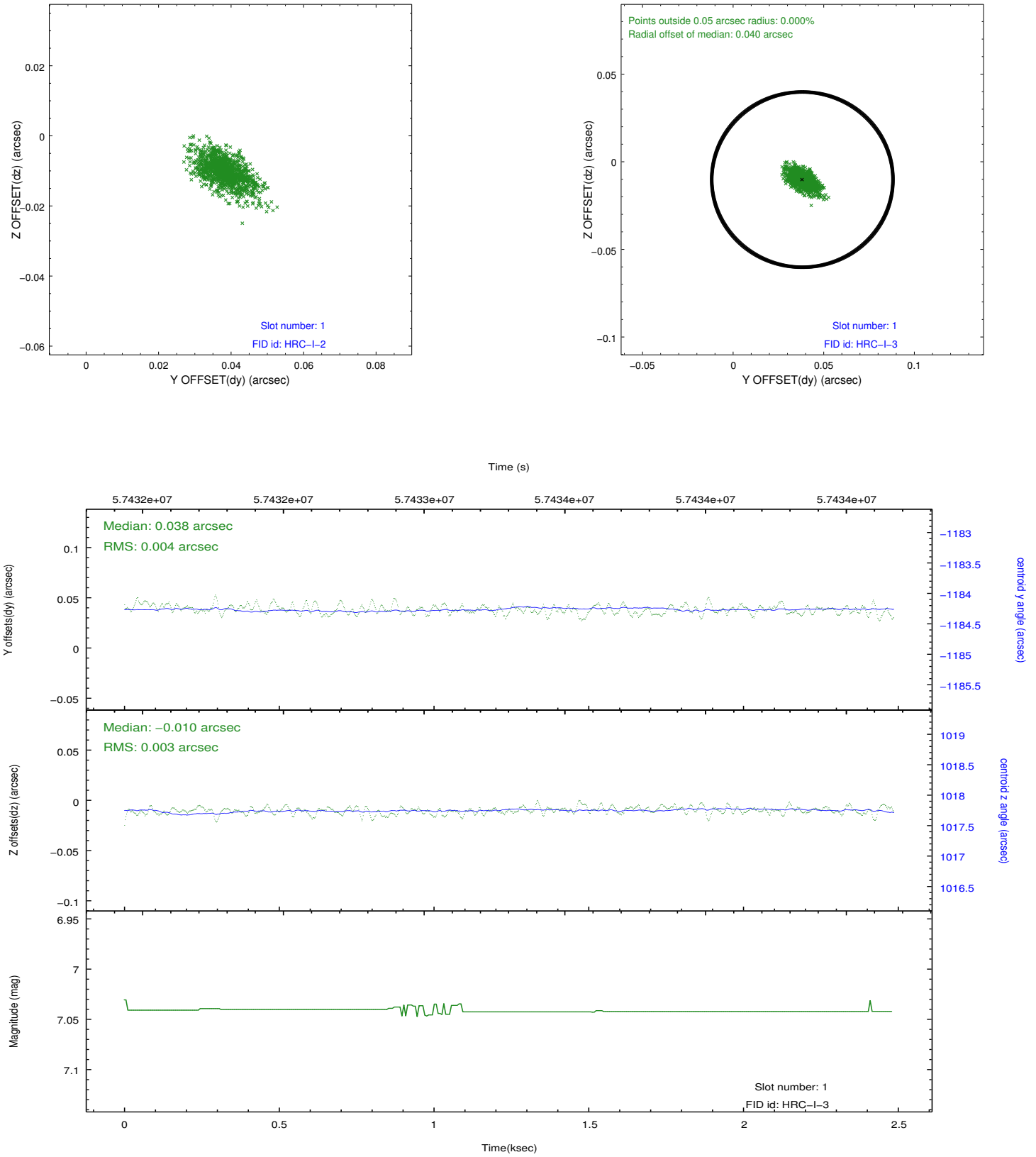


## 2.5 FID Slots

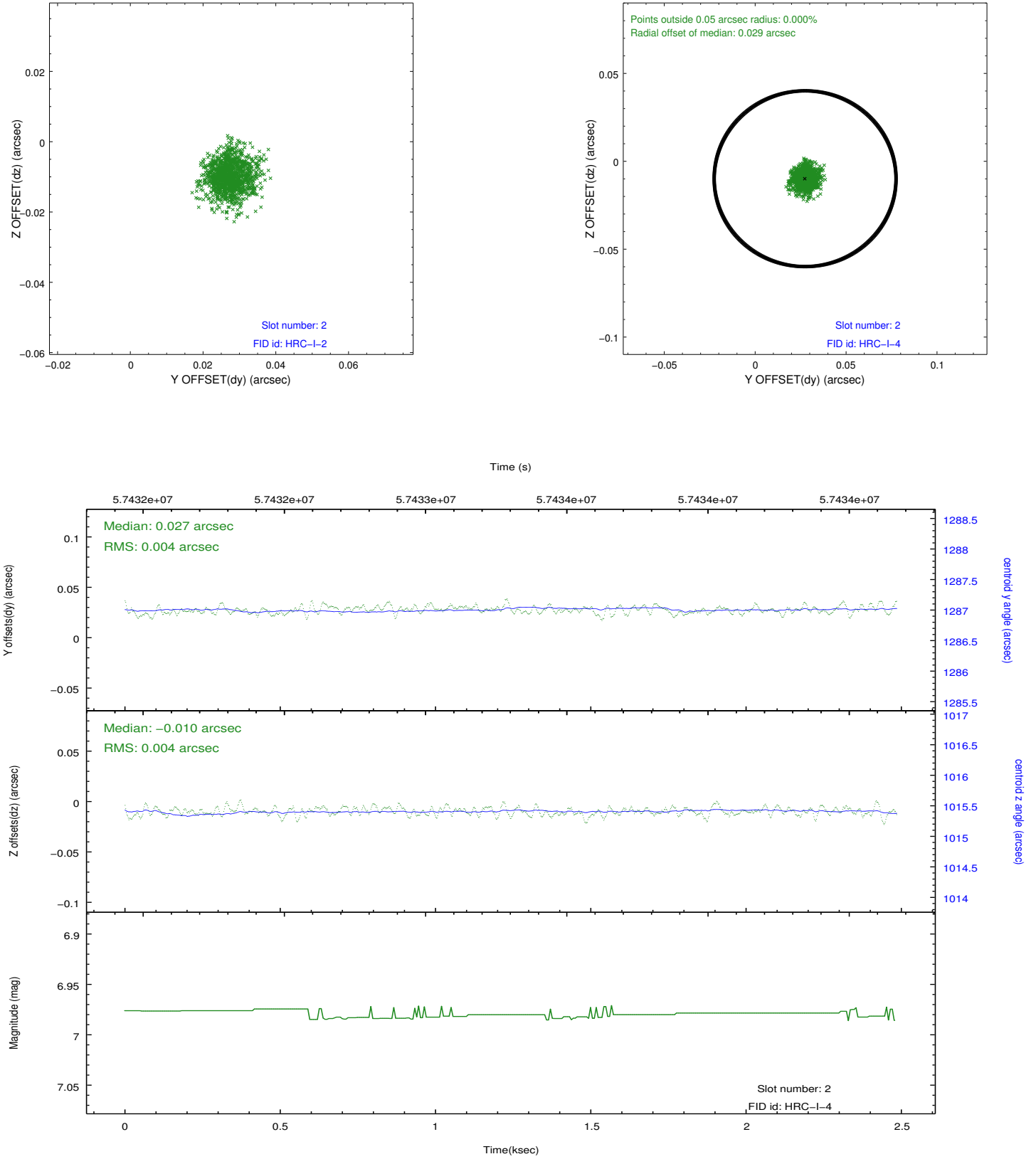
### 2.5.1 Slot 0



## 2.5.2 Slot 1

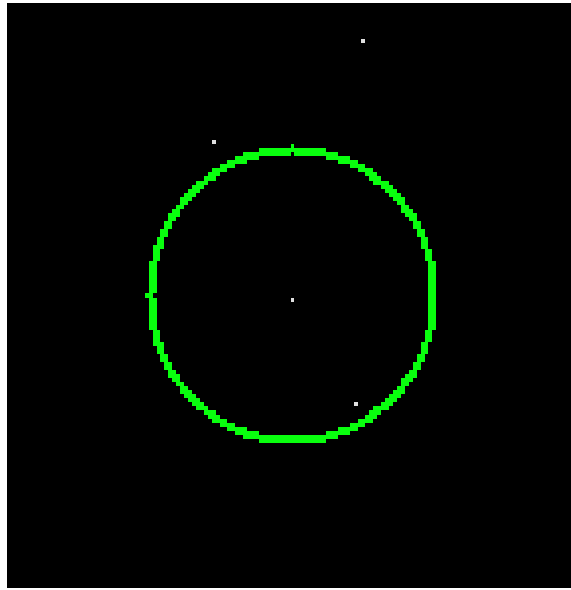


### 2.5.3 Slot 2

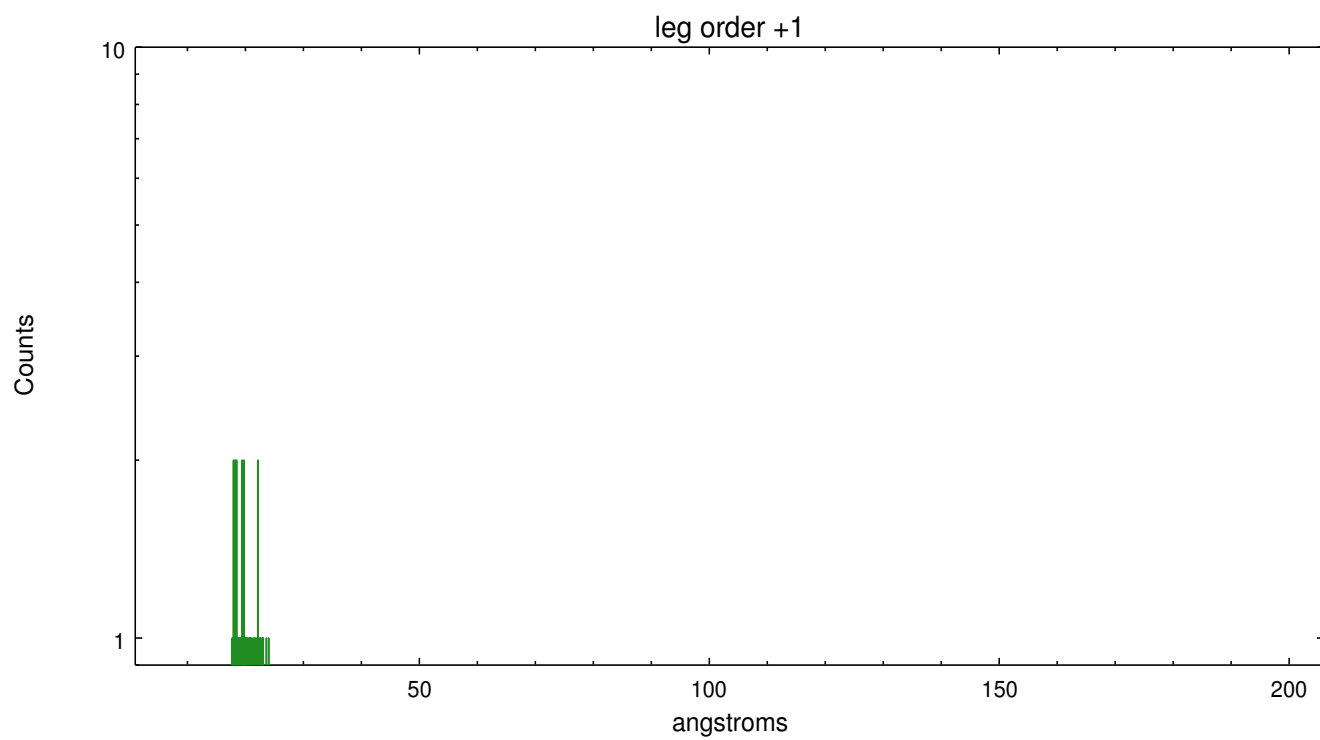
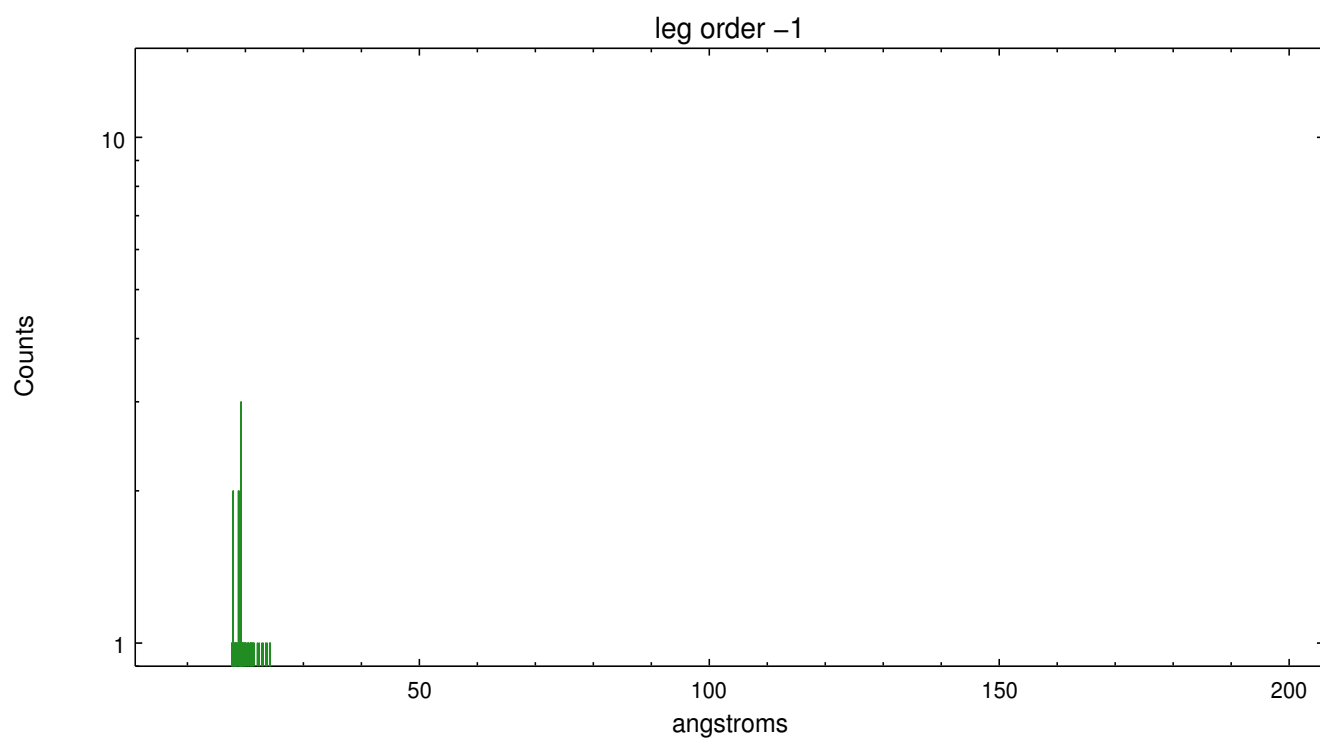


## 3 Gratings

### 3.1 LETG Arm



LETG Zero Order



# A Summary

## A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2010.05.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.275

## A.2 Comments

HRC-I PSF tests. Target is very off-axis in the cross-dispersion direction.