

# V&V Reference Report

## L2 ASCDS Version : 8.2.1

Observation 1215 - L2 Version 4  
Chandra X-Ray Center

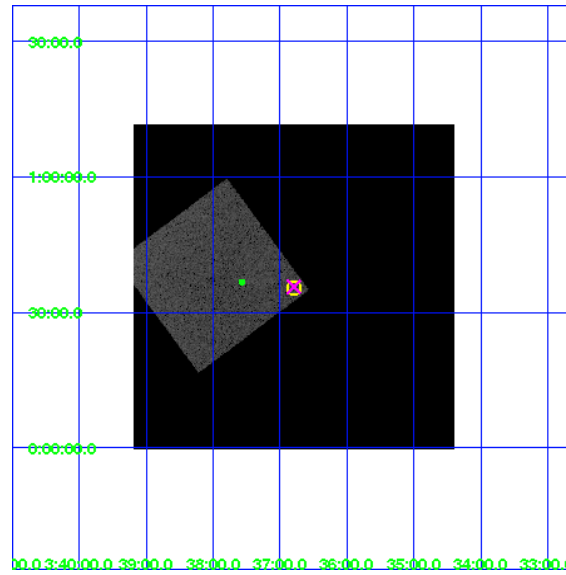
L2 Processing Date : Jan 12 2010

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# 1 Front

seq_num	280165	Sequence number
obs_id	1215	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	54.19840573576	Nominal RA
dec_nom	0.59458650984534	Nominal Dec
roll_nom	98.42505883246	Nominal Roll
revision	4	Processing version of data
ontime	1674.0813101232	[s]
livetime	1660.8552670166	Ontime multiplied by DTCOR
l2events	59082	Number of level 2 events

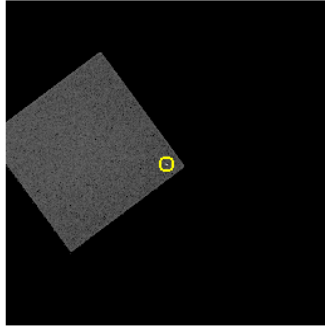


## 2 OBI

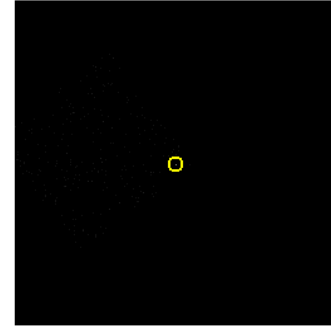
### 2.1 OBI

#### 2.1.1 Images

Level 1 Image



Level 1 Bad Events



## 2.1.2 Parameters

obi_num	0	Obi number	sched_exp_time	2000.000000	Scheduled observation exposure time
ascdsver	8.2.1	Processing system revision	ontime	1674.0813101232	[s]
caldbver	4.1.5	&#160	l1events	102397	Number of level 1 events
date	2010-01-12T20:19:40	Date and time of file creation			
revision	4	Processing version of data			

## 2.1.3 Events

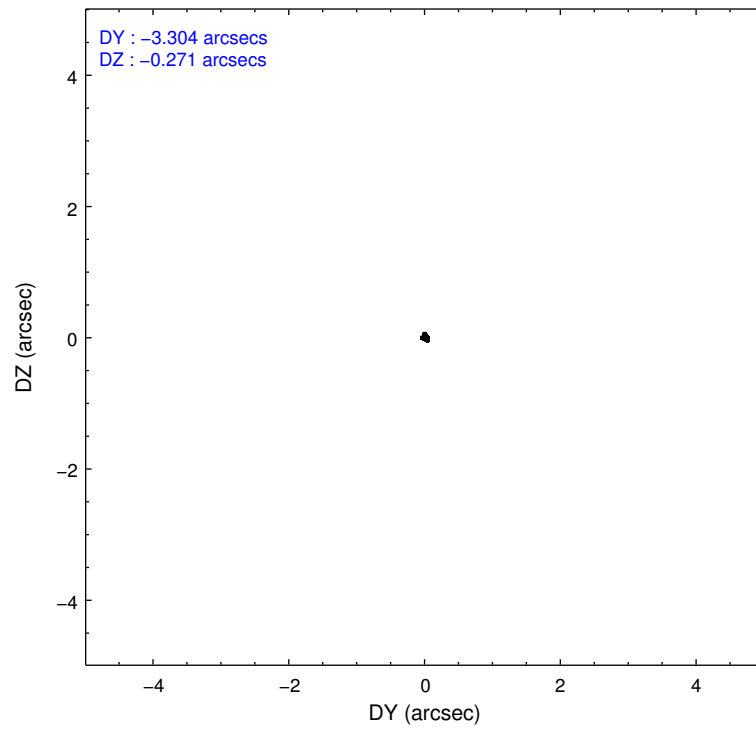
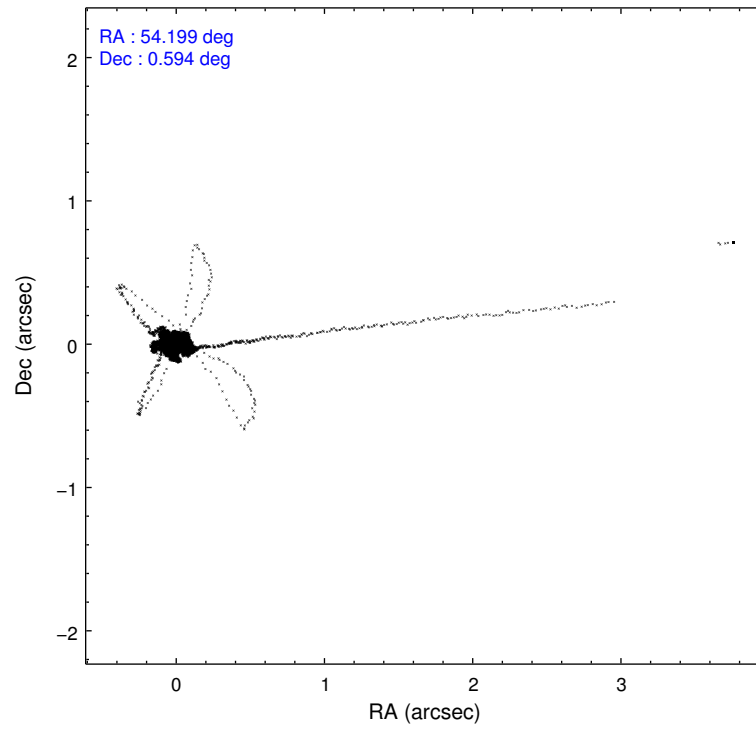
### Level 1 Events

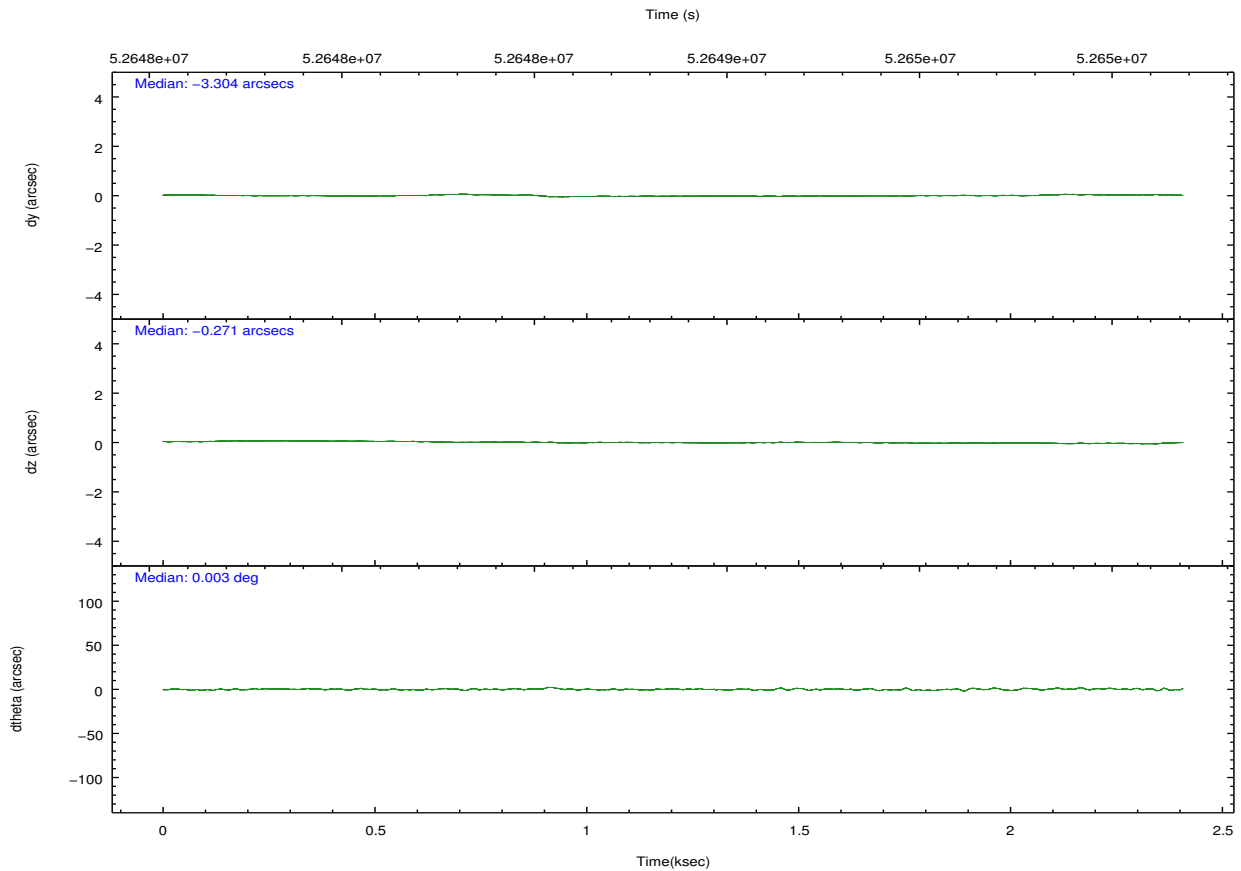
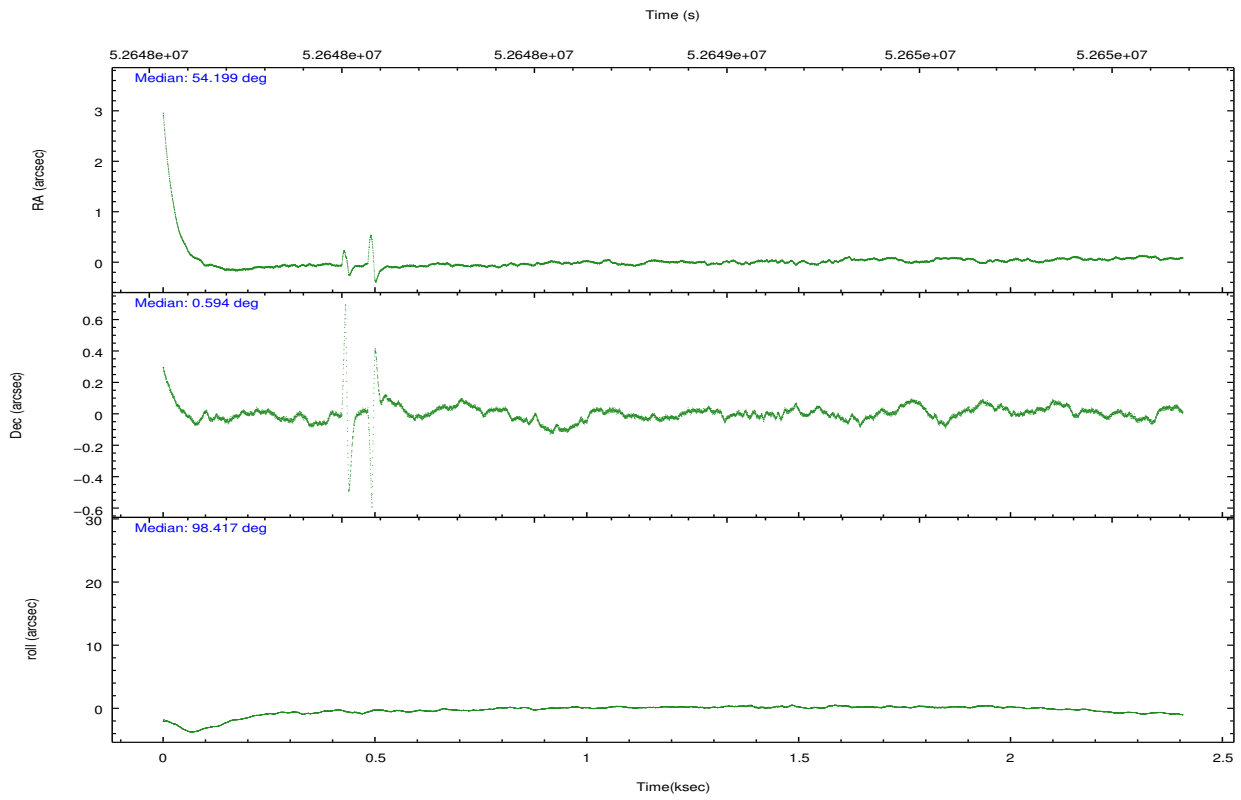
	<b>segment 0</b>
level 1 events	102397
rejected events	2746
rejected %	2%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	HRC	HRC	Obspar format		
Detector	HRC-I	HRC-I	version number	6	6
Grating	NONE	NONE	Obspar file type	PREDICTED	ACTUAL
Data mode	OBSERVING	OBSERVING	Obspar update status	NONE	UPDATED
Observation mode	POINTING	POINTING			
Pointing RA	54.215439	54.1984057357601			
Pointing Dec	0.573174	0.5945865098453385			
Pointing Roll	98.520366	98.42505883246035			
SIM focus pos (mm)	-1.040293	-1.016036269358593			
SIM defocus (mm)	0	0.02425635130028114			
SIM translation stage pos (mm)	180.992987	180.9904726674951			
SIM translation stage offset (mm)	-54.007493	-54.00498377589349			
Observation start time	52648064.184000	52647433.879003			
Observation start date	1999-09-02T08:26:40	1999-09-02T08:17:13			
Observation end time	52650064.184000	52650197.791602			
Observation end date	1999-09-02T09:00:00	1999-09-02T09:03:17			

## 2.3 Aspect



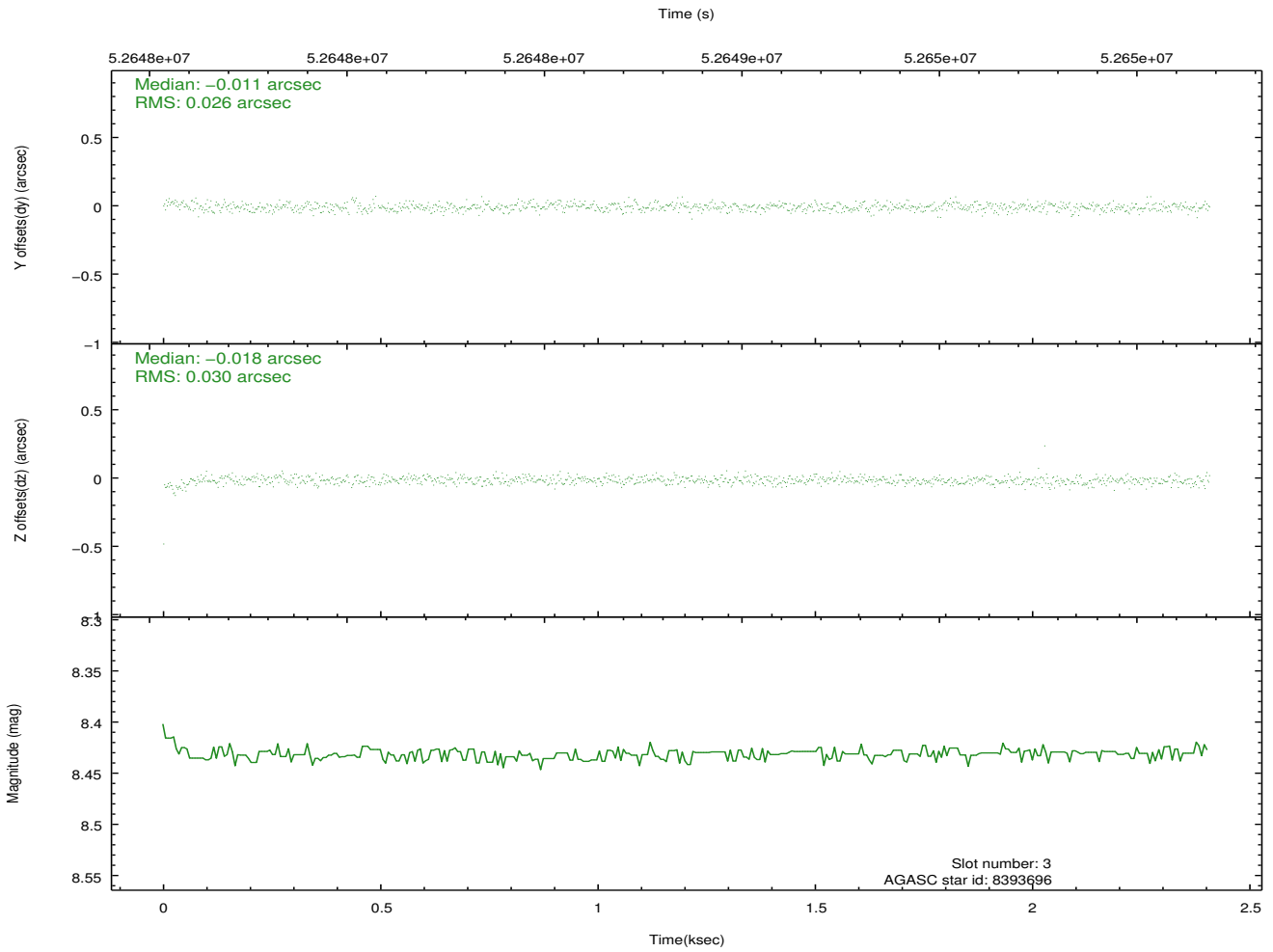
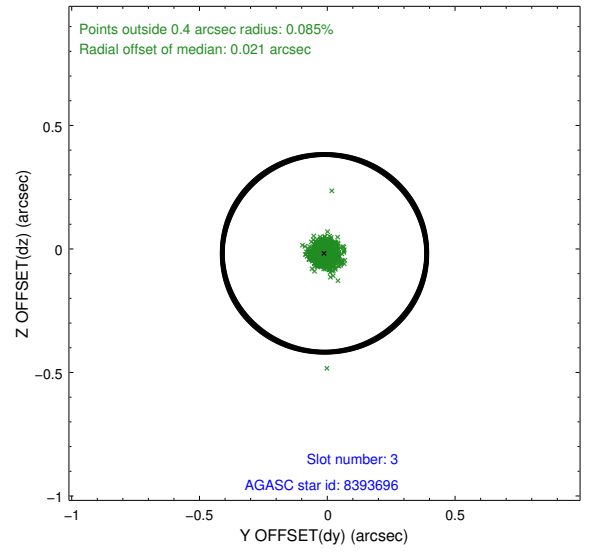
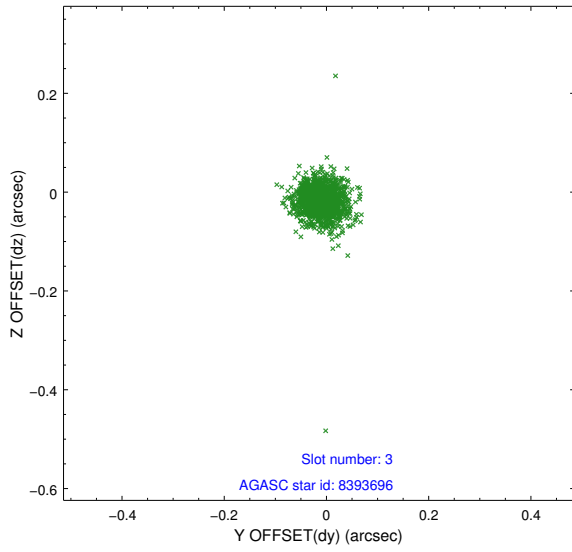


### Slot Statistics

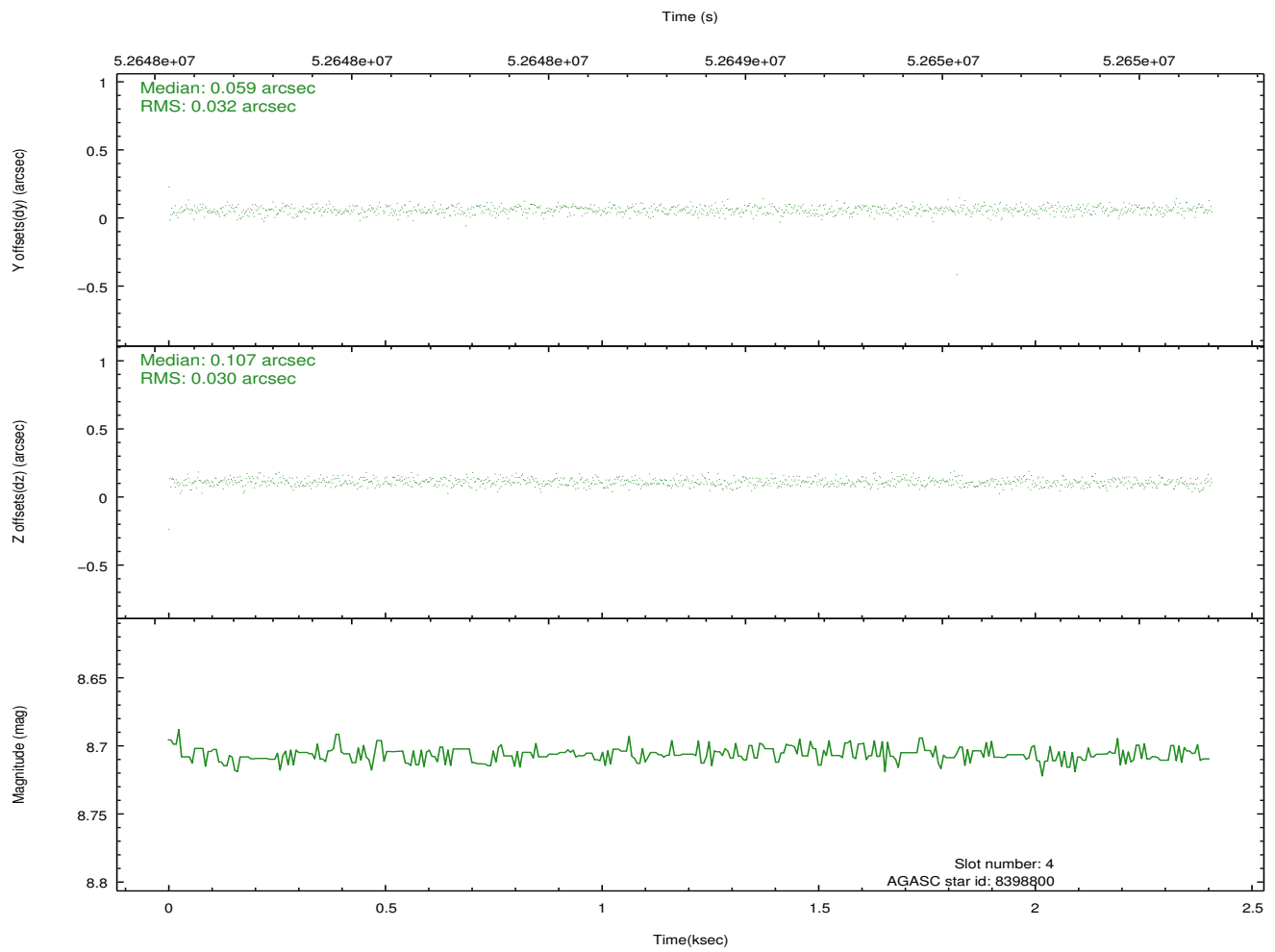
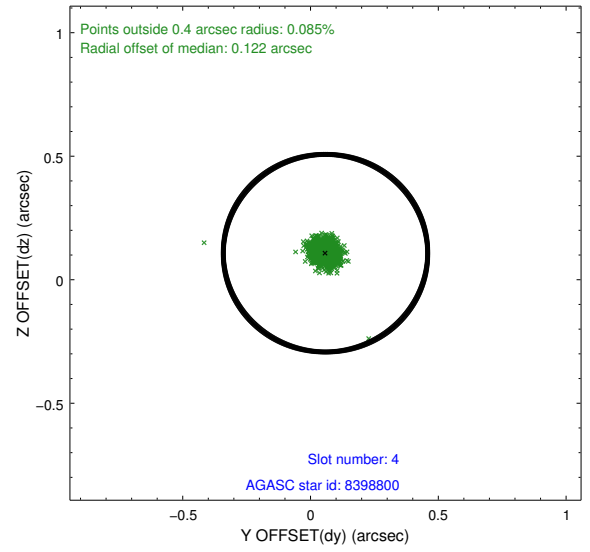
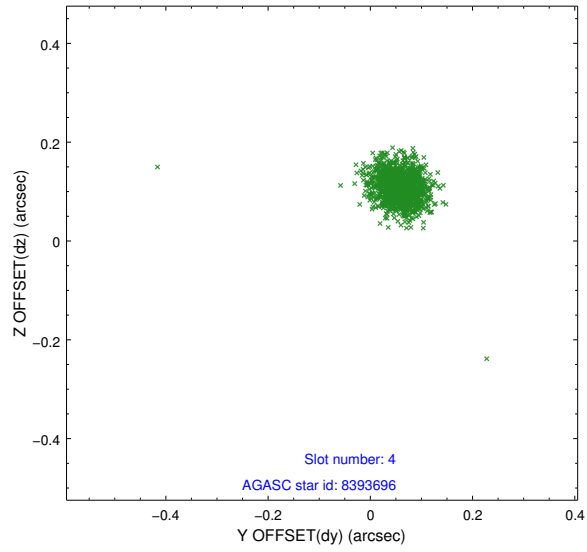
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-I-1	6.88	1175	0.215	-1.006	0.004	0.007	0.000000	0.000000	-751.58	-2397.75
1	FID	HRC-I-3	7.11	1168	-0.142	0.937	0.004	0.007	0.000000	0.000000	-1180.24	-94.45
2	UNUSED		0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00
3	GUIDE	8393696	8.43	1170	-0.011	-0.018	0.039	0.064	53.645666	0.680479	686.26	1971.55
4	GUIDE	8398800	8.71	1171	0.059	0.107	0.043	0.070	54.242352	0.922024	1228.82	-279.61
5	GUIDE	8390744	9.01	1171	-0.038	-0.159	0.049	0.081	53.677290	0.926294	1545.61	1727.52
6	GUIDE	8395104	8.66	1171	0.040	0.131	0.042	0.069	54.744893	0.796520	515.06	-2001.96
7	GUIDE	8399352	9.94	1172	-0.049	-0.064	0.085	0.145	53.946831	1.204693	2392.46	618.18

## 2.4 Star Slots

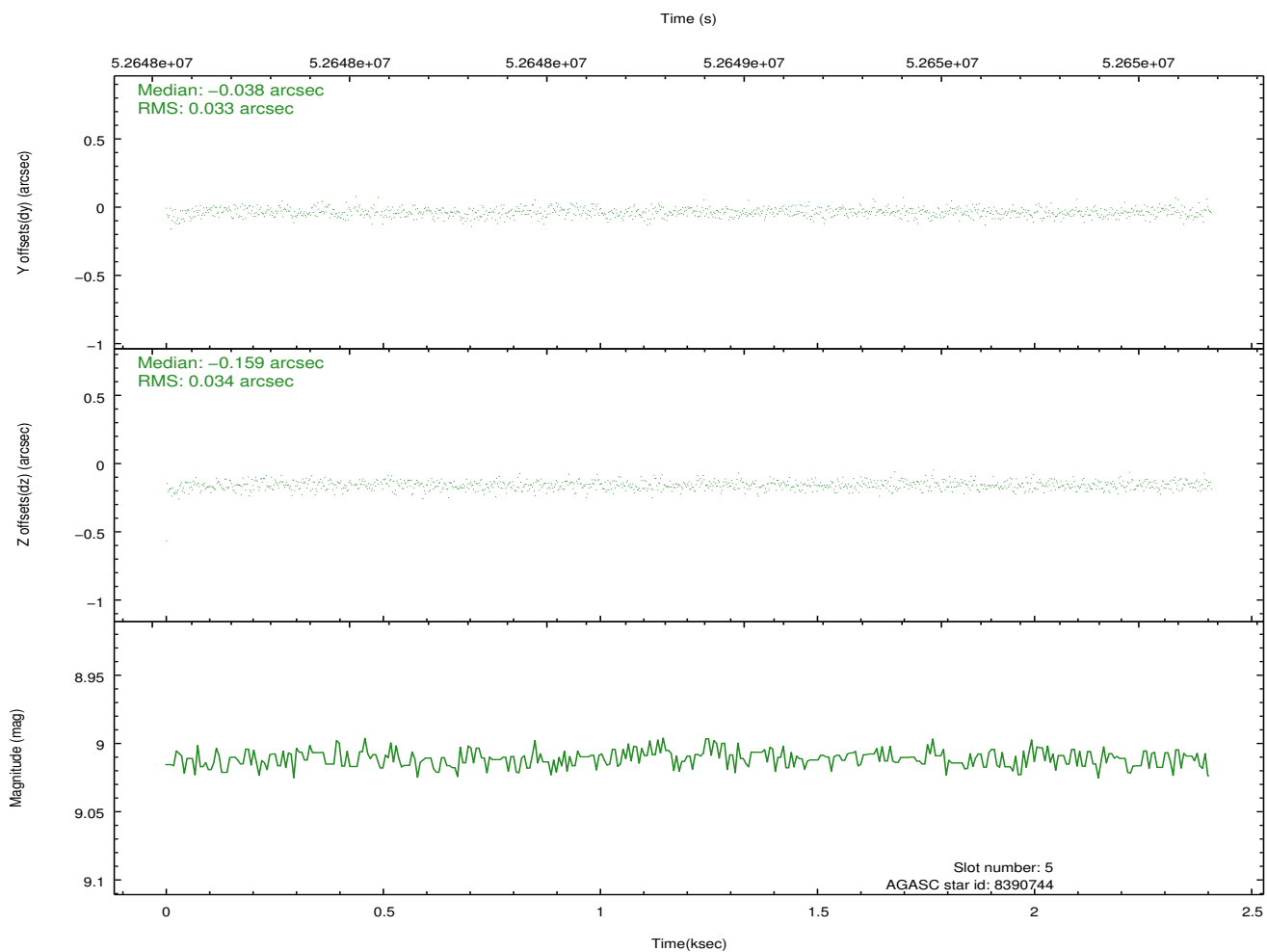
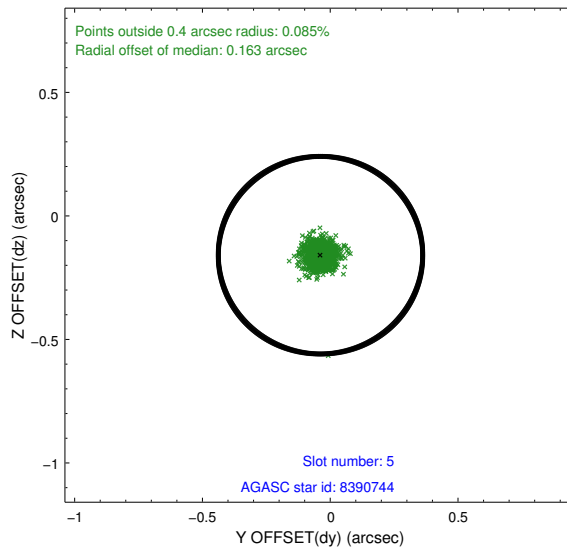
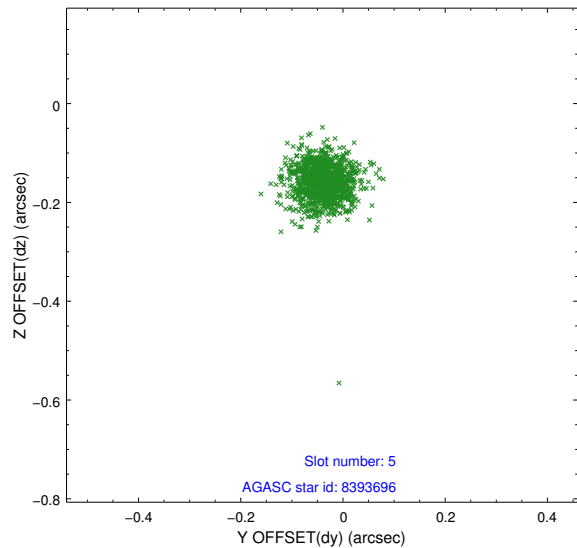
### 2.4.1 Slot 3



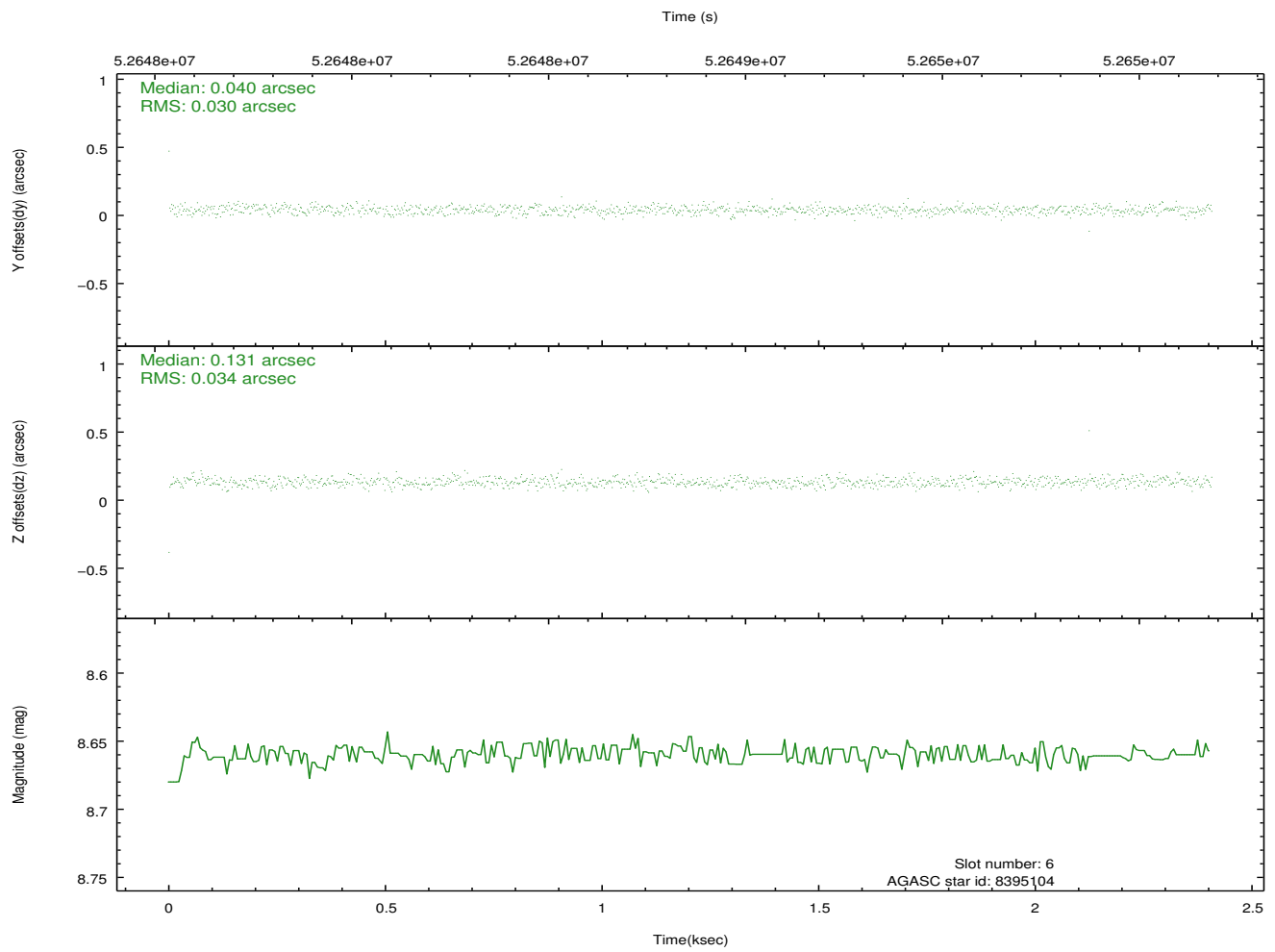
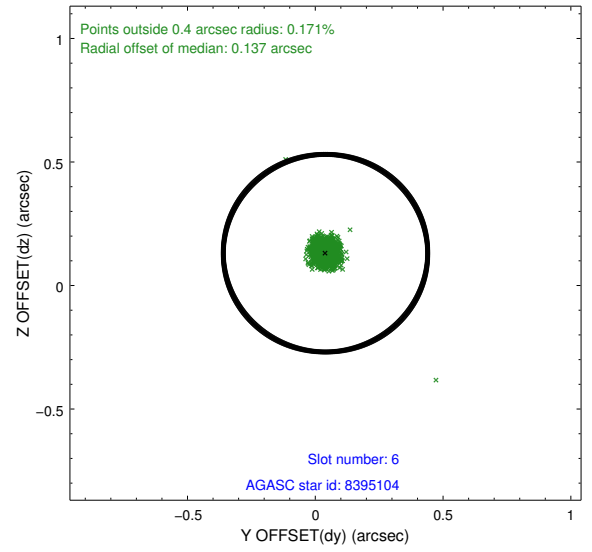
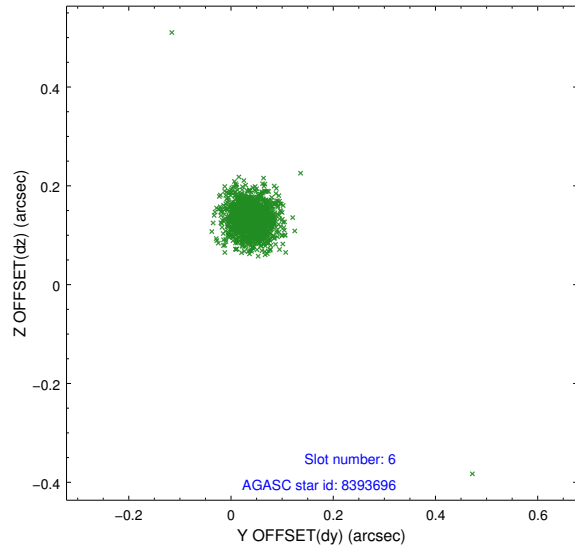
## 2.4.2 Slot 4



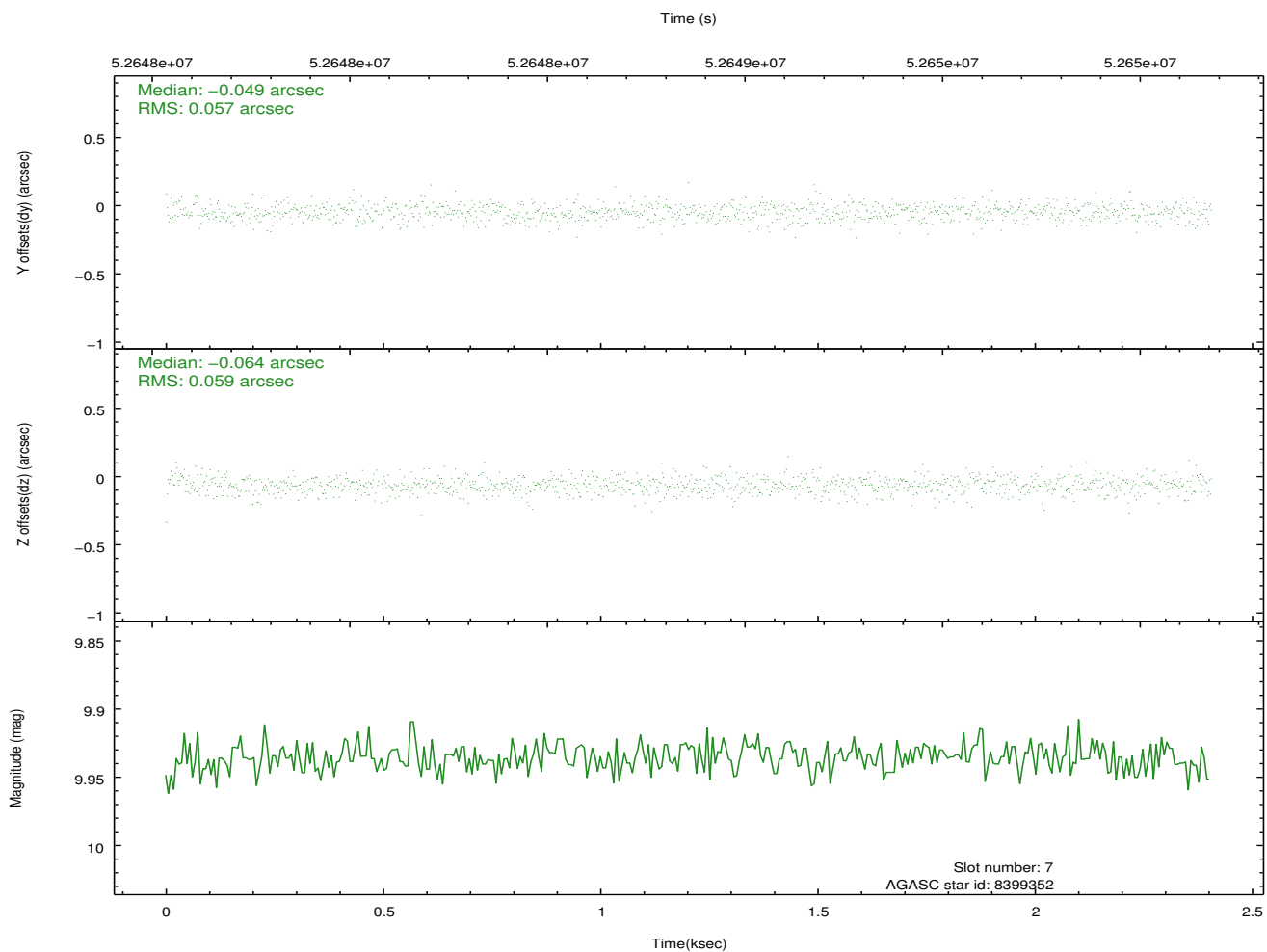
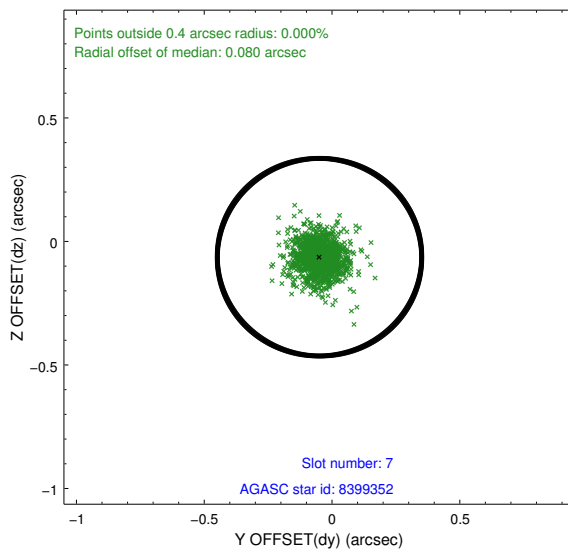
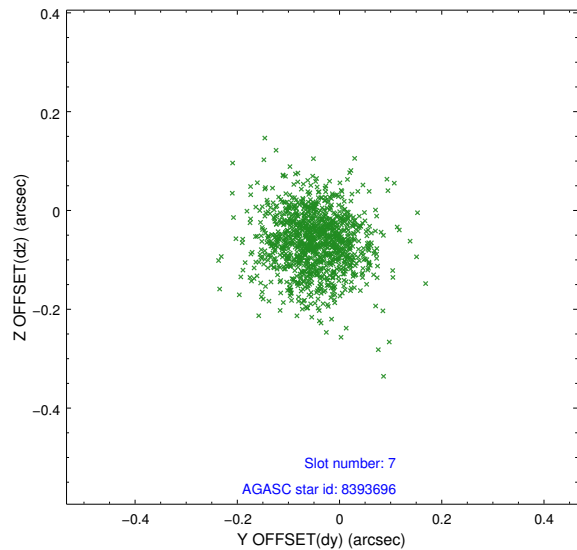
### 2.4.3 Slot 5



## 2.4.4 Slot 6

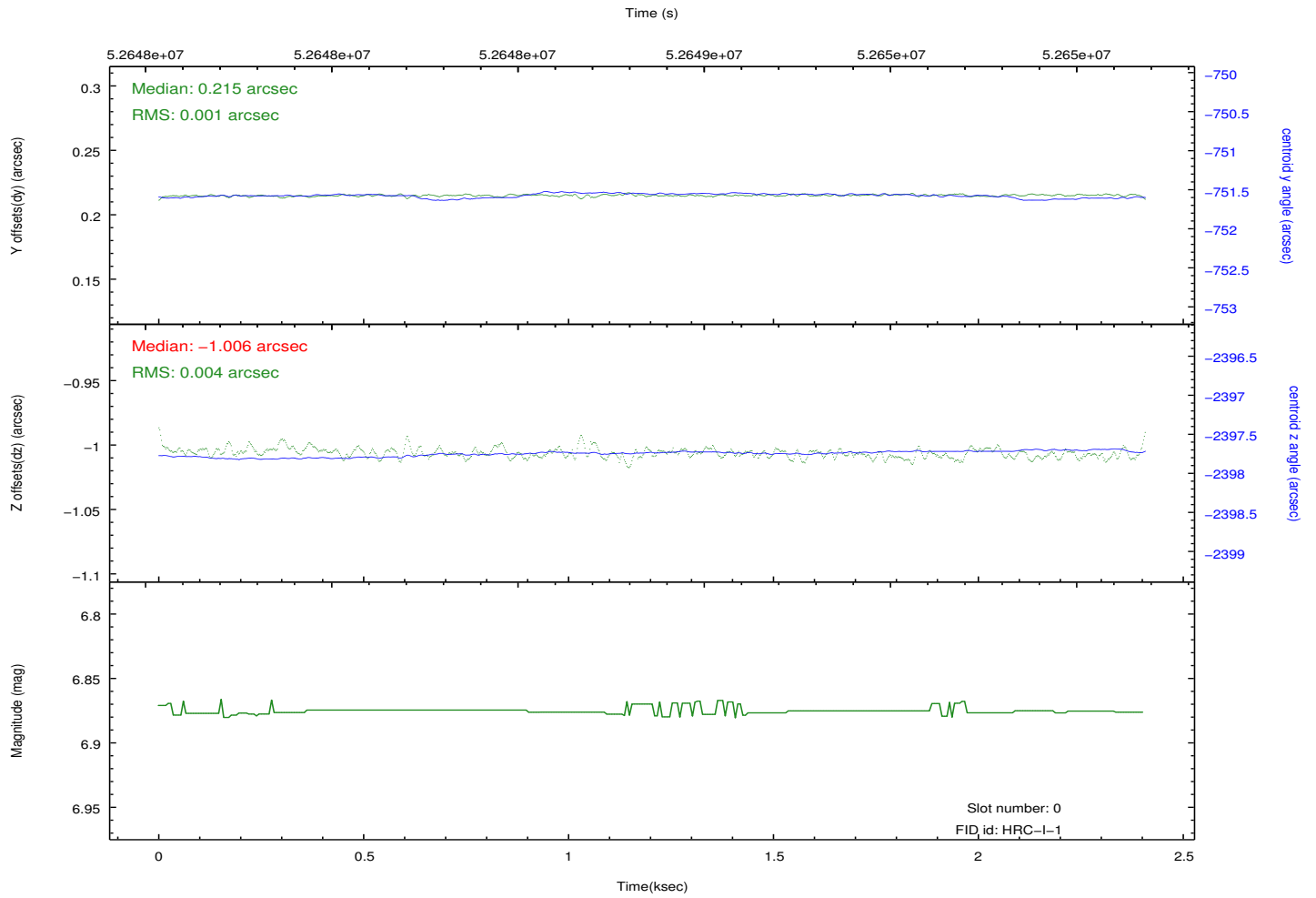
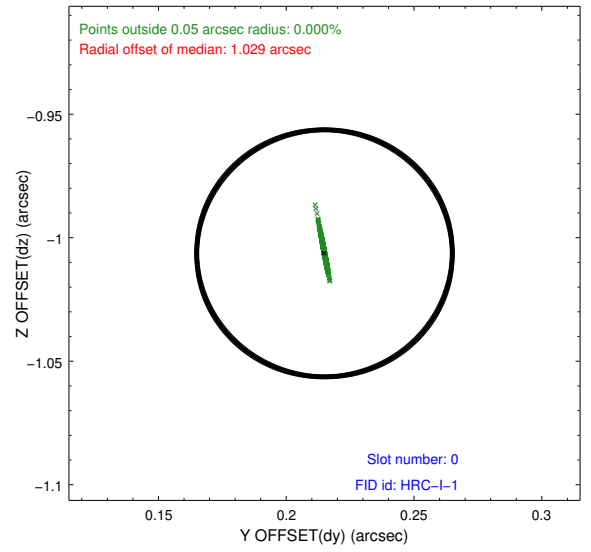
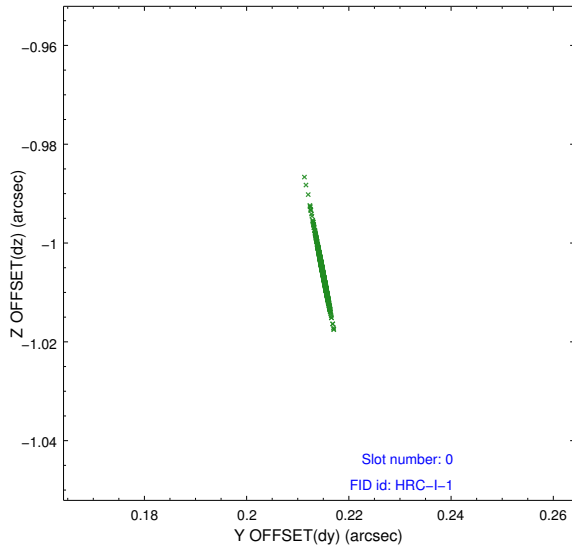


## 2.4.5 Slot 7

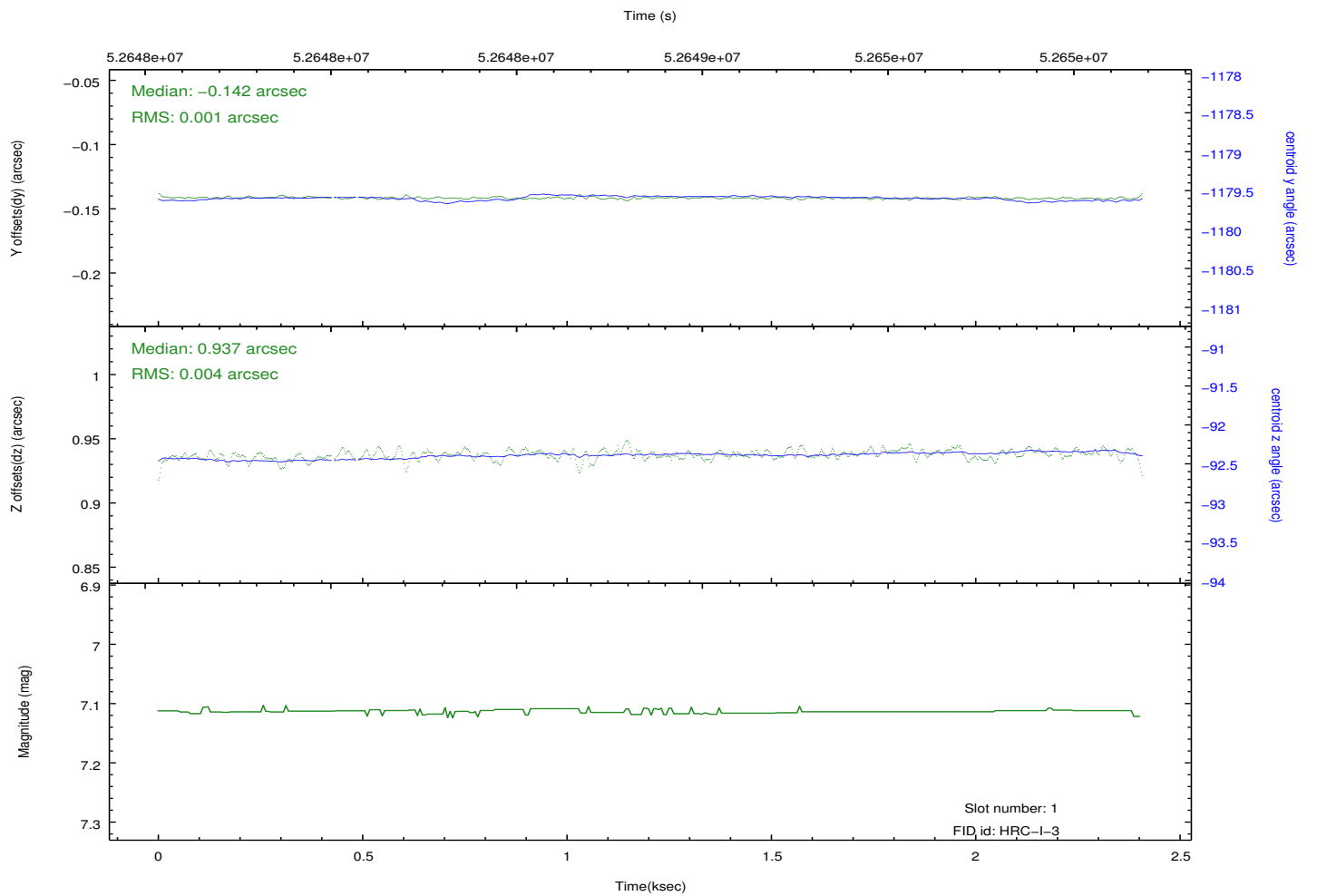
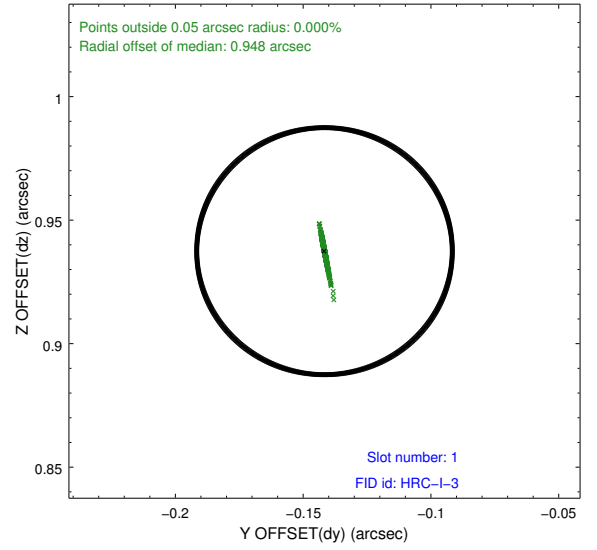
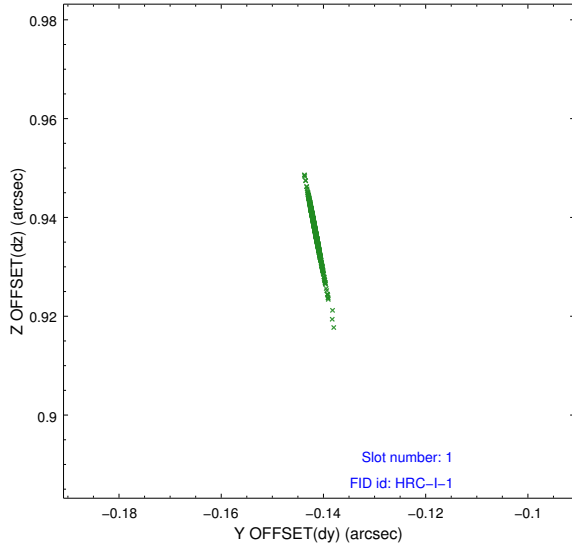


## 2.5 FID Slots

### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 3 Point Sources

11.58 arcmin



# A Summary

## A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2010.01.20
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.674

## A.2 Comments

HRC shutter focus measurement at corner of HRC-I to measure SIM tilt.

=====

During this observation the HRC shutters were inadvertently left partially closed.

=====

Fid light in slot 2 was blocked by the HRC shutter. Fid light in slot 0 has an unusually large offset. However, slot 0 was used in the aspect solution in a limited way. The pointing solution is not optimal with one missing and one degraded fid light.