

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 1549 - L2 Version 5  
Chandra X-Ray Center

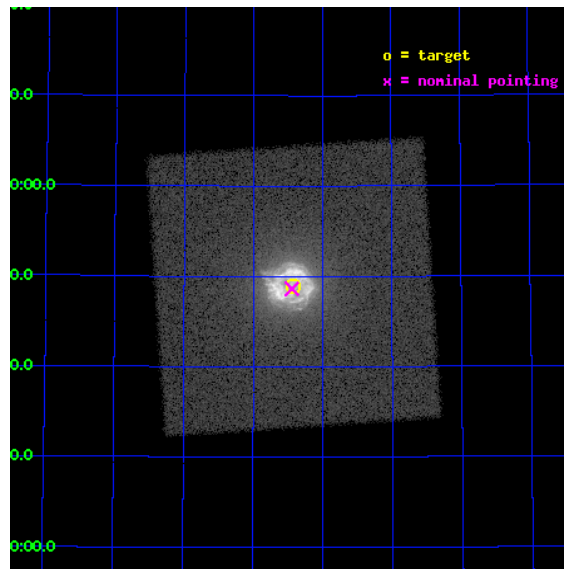
L2 Processing Date : Sep 6 2012

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# 1 Front

seq_num	590158	Sequence number
obs_id	1549	Observation id
title	CALIBRATION OBSERVATIONS OF THE STANDARD CANDLE CAS A	Proposal tit
observer	Dr. CXC Calibration	Principal investigator
object	CAS A [HRC-I, Offsets=0,0,0 HRC-I, AO2A]	Source name
ra_targ	350.8575	Observer's specified target RA [deg]
dec_targ	58.814833	Observer's specified target Dec [deg]
ra_nom	350.86059794349	Nominal RA [deg]
dec_nom	58.810572833253	Nominal Dec [deg]
roll_nom	311.12762081892	Nominal Roll [deg]
revision	5	Processing version of data
ontime	4983.8064414114	[s]
livetime	4926.6996498204	Ontime multiplied by DTCOR
l2events	570249	Number of level 2 events

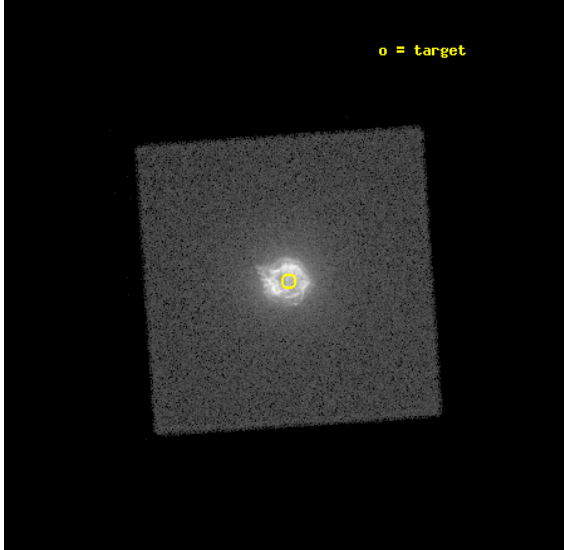


## 2 OBI

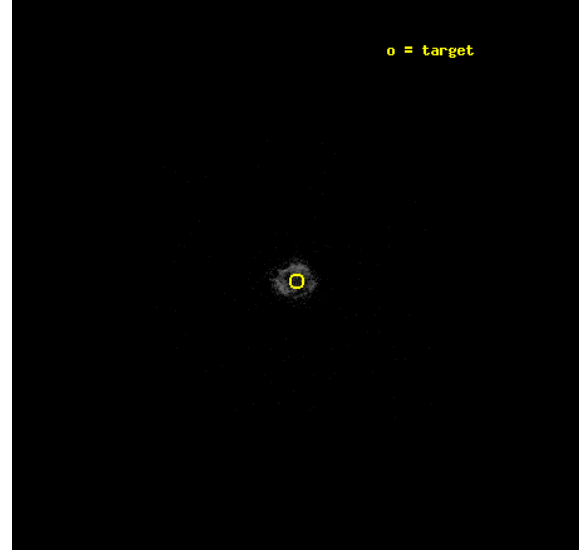
### 2.1 OBI

#### 2.1.1 Images

Level 1 Image



Level 1 Bad Events



### 2.1.2 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	4983.8064414114	[s]
caldbver	4.5.1.1	&#160	l1events	680978	Number of level 1 events
date	2012-09-06T11:18:16	Date and time of file creation			
revision	5	Processing version of data			

### 2.1.3 Events

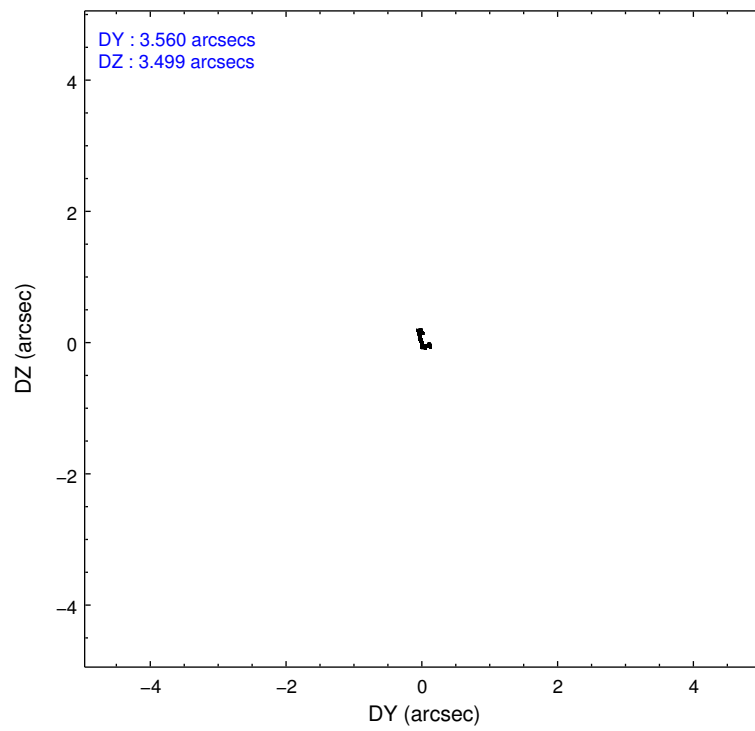
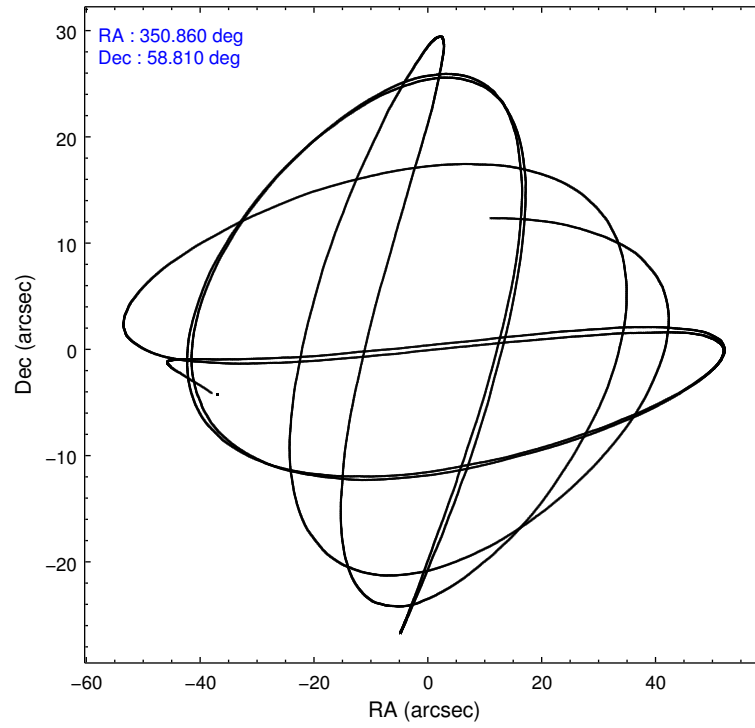
#### Level 1 Events

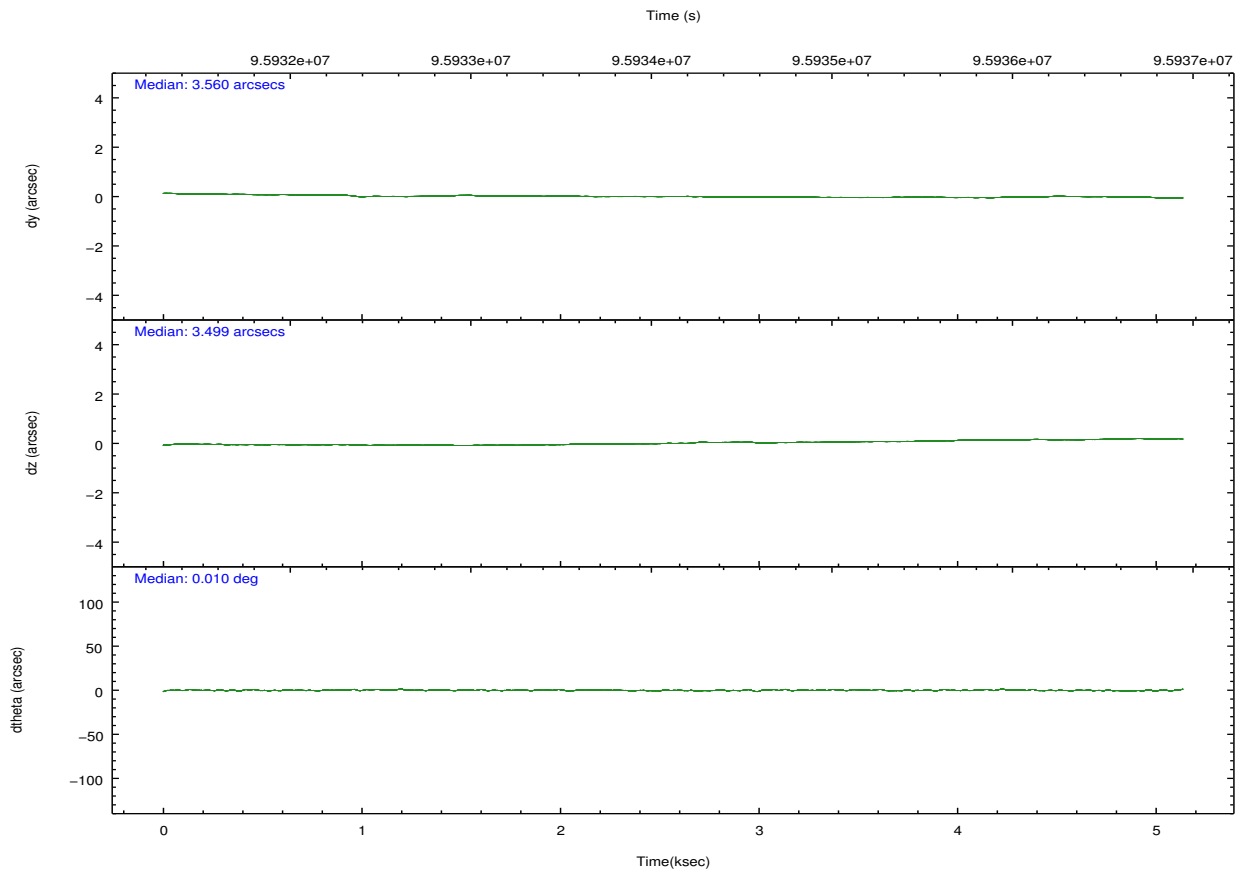
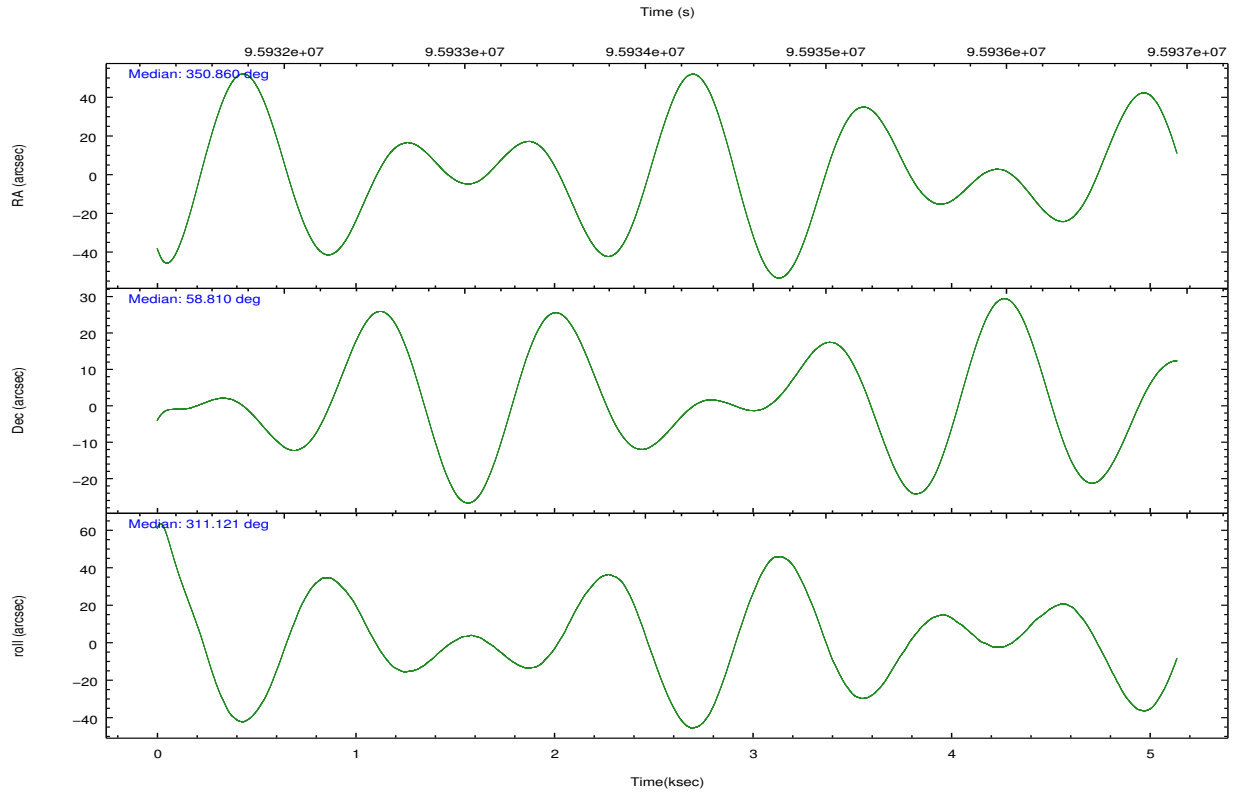
	<b>segment 0</b>
level 1 events	680978
rejected events	8652
rejected %	1%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	HRC	HRC	Obspar format version number	7	7
Detector	HRC-I	HRC-I	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	OBSERVING	OBSERVING			
Observation mode	POINTING	POINTING			
[deg] Pointing RA	350.810129	350.8605979434883			
[deg] Pointing Dec	58.819037	58.81057283325276			
[deg] Pointing Roll	311.266228	311.1276208189161			
[s] Window start time (MET)	94694464.184000	94694464.184000			
[s] Window stop time (MET)	97286464.184000	97286464.184000			
[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)	95931687.184000	95930804.46119399			
Observation start date	2001-01-15T07:40:23	2001-01-15T07:26:44			
[s] Observation end time (MET)	95936687.184000	95936910.386429			
Observation end date	2001-01-15T09:03:43	2001-01-15T09:08:30			

## 2.3 Aspect



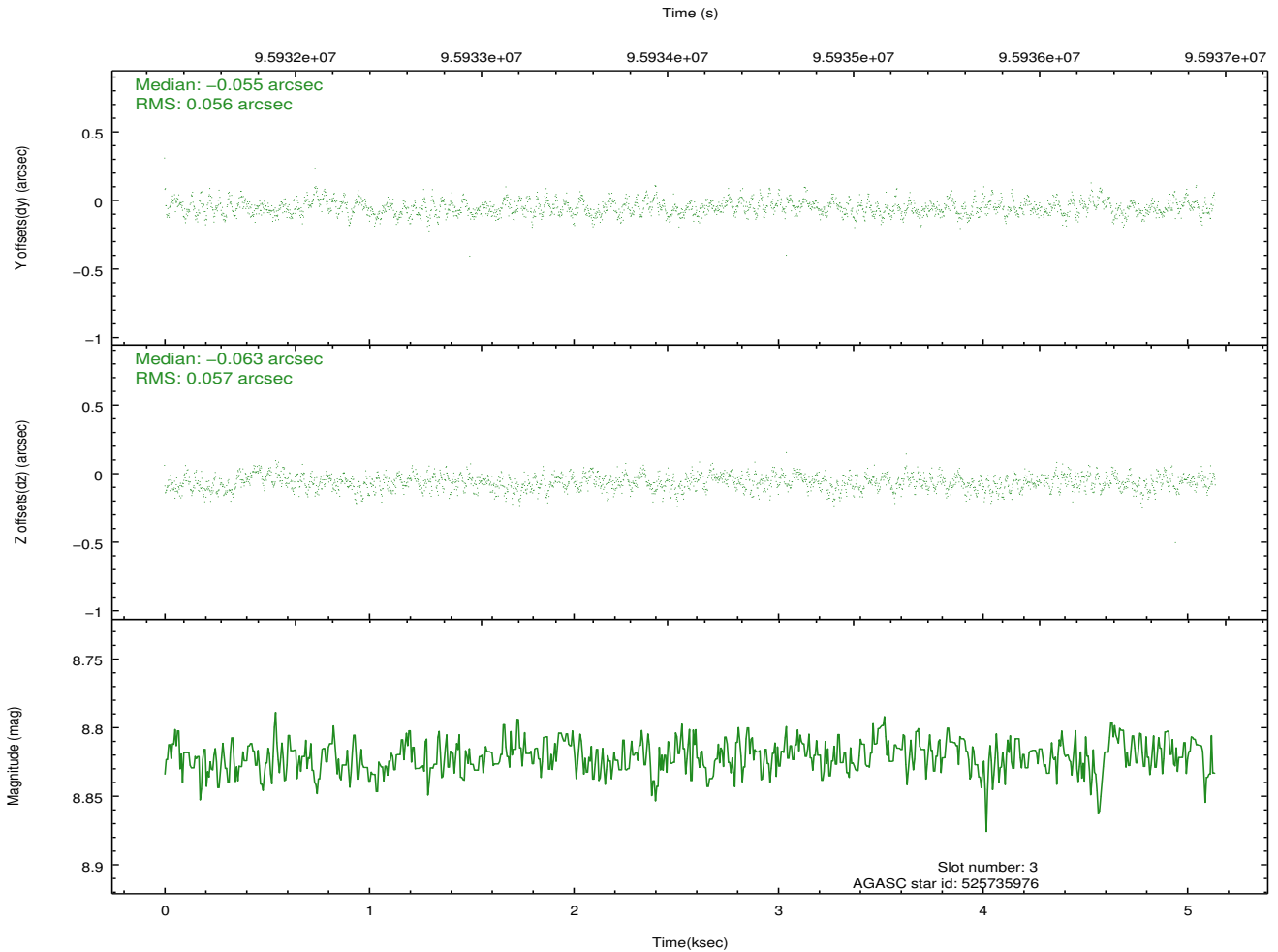
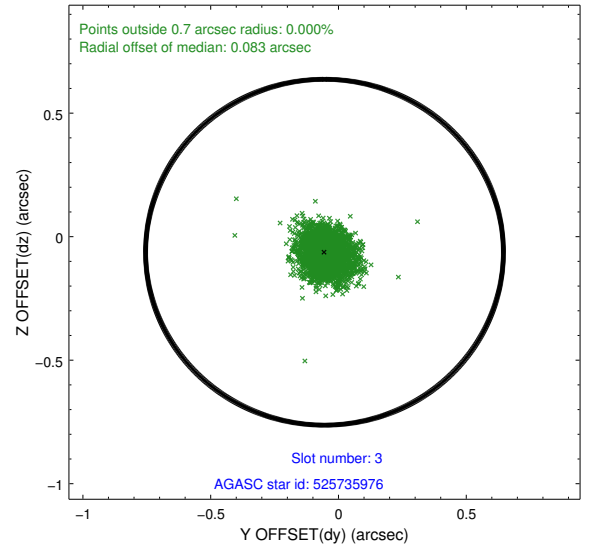
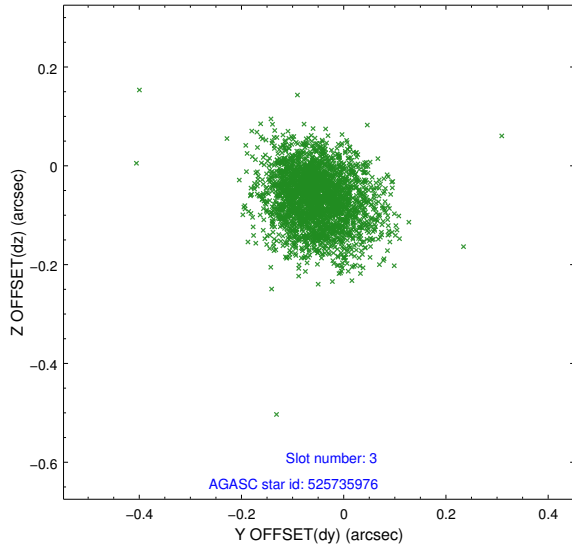


### Slot Statistics

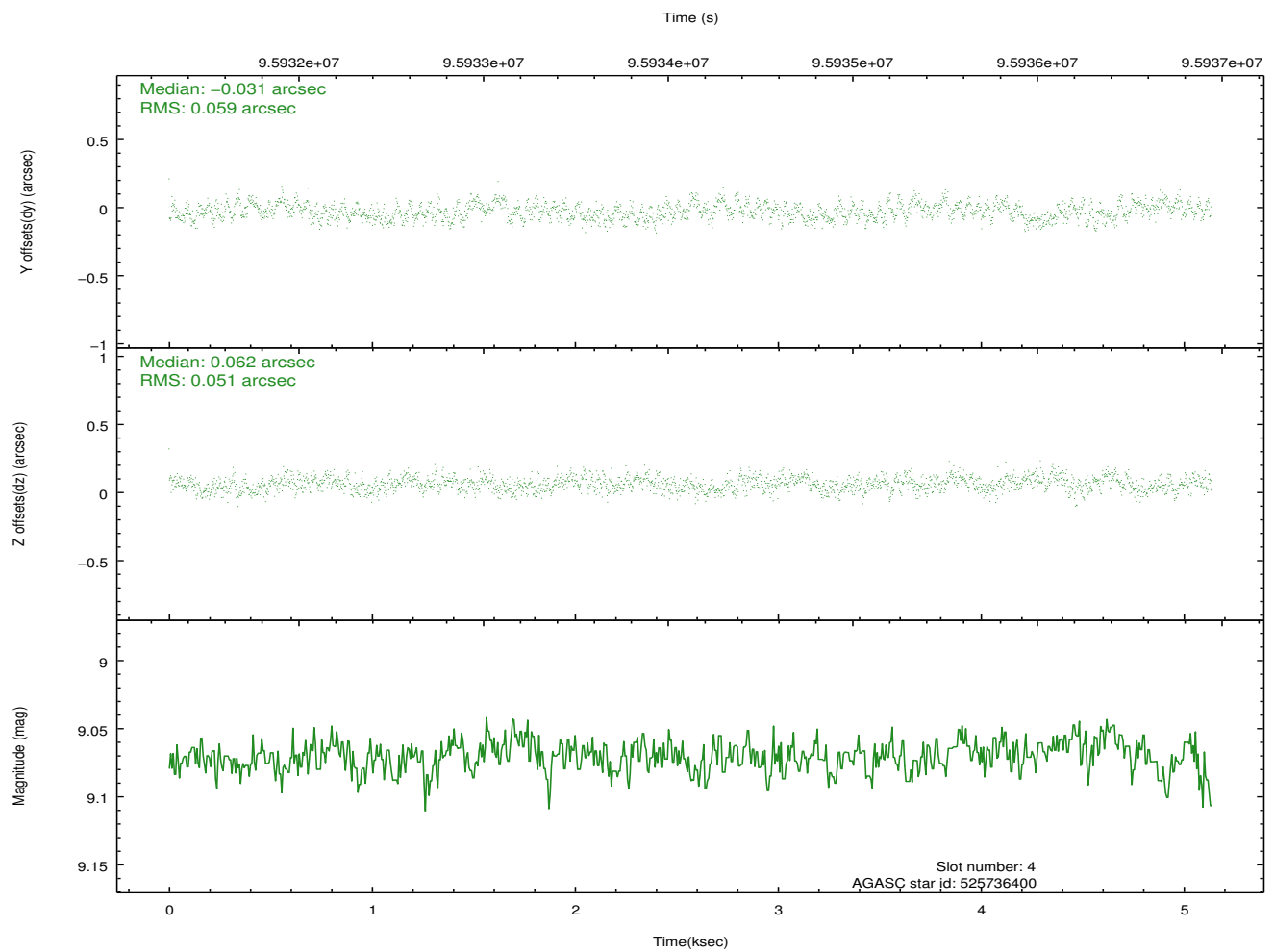
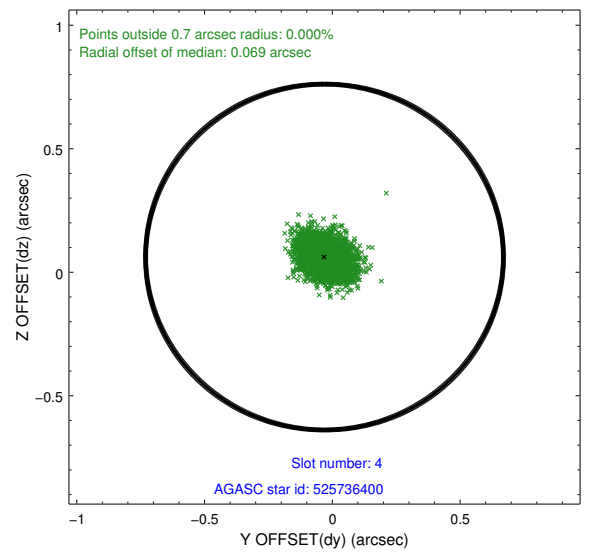
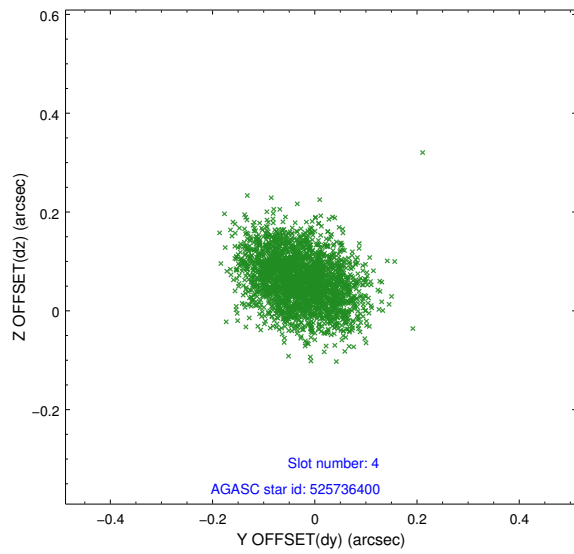
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-I-1	6.98	1253	0.083	0.053	0.007	0.012	0.000000	0.000000	-759.02	-1291.20
1	FID	HRC-I-3	7.06	1254	0.000	-0.054	0.009	0.015	0.000000	0.000000	-1188.13	1012.24
2	FID	HRC-I-4	7.00	1253	0.030	-0.087	0.005	0.009	0.000000	0.000000	1282.84	1011.58
3	GUIDE	525735976	8.82	2504	-0.055	-0.063	0.083	0.136	350.142956	58.277622	627.75	-2230.26
4	GUIDE	525736400	9.07	2507	-0.031	0.062	0.083	0.133	350.974563	59.175145	-763.57	1073.26
5	GUIDE	525606576	9.47	2506	-0.070	-0.111	0.108	0.173	349.543555	58.678895	-1200.85	-2099.00
6	GUIDE	525739240	9.63	2506	0.013	-0.090	0.099	0.160	350.642893	59.099564	-963.64	433.34
7	GUIDE	525740136	8.66	2506	0.142	0.198	0.062	0.099	352.585881	58.767876	2291.12	2399.80

## 2.4 Star Slots

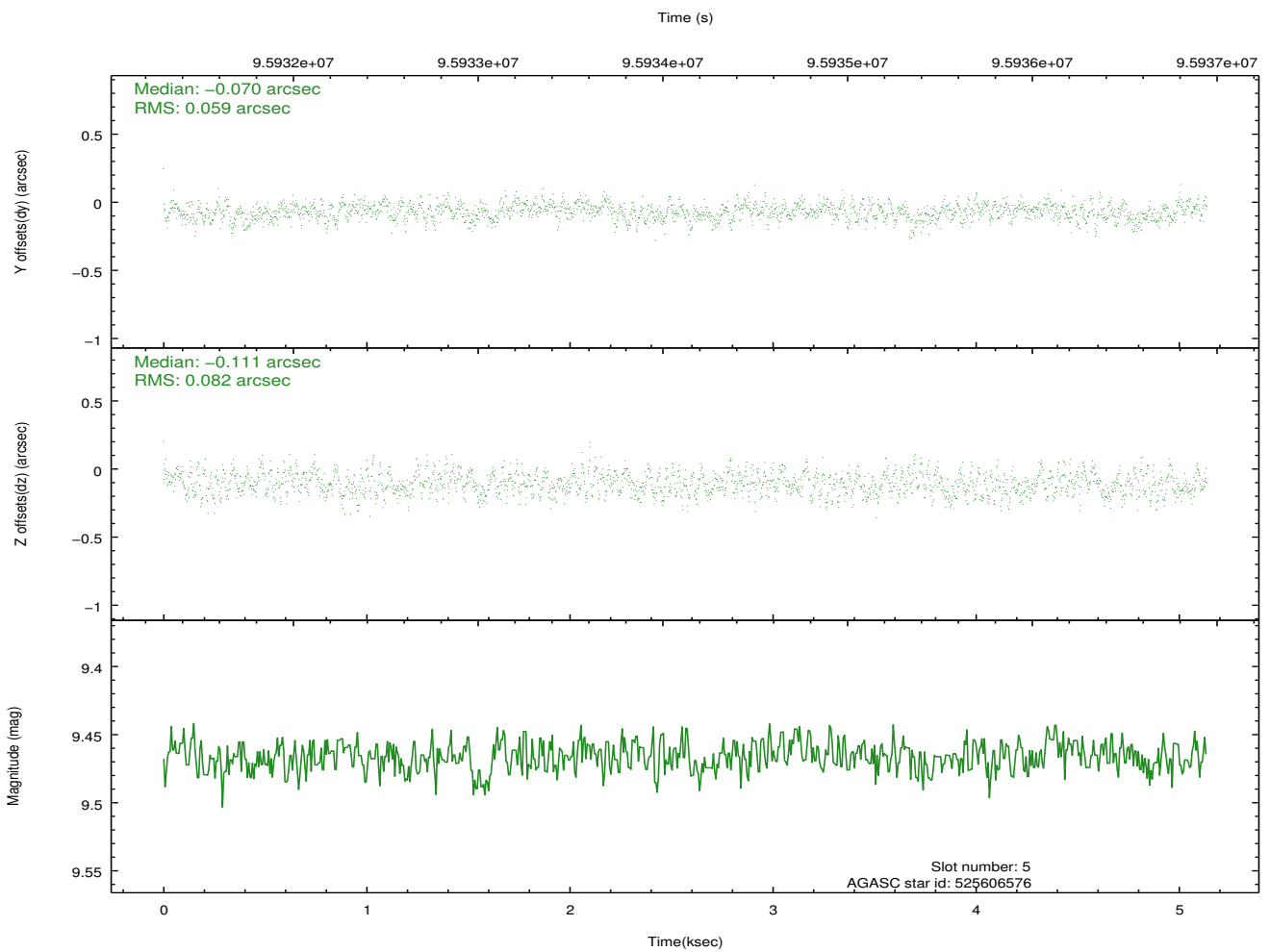
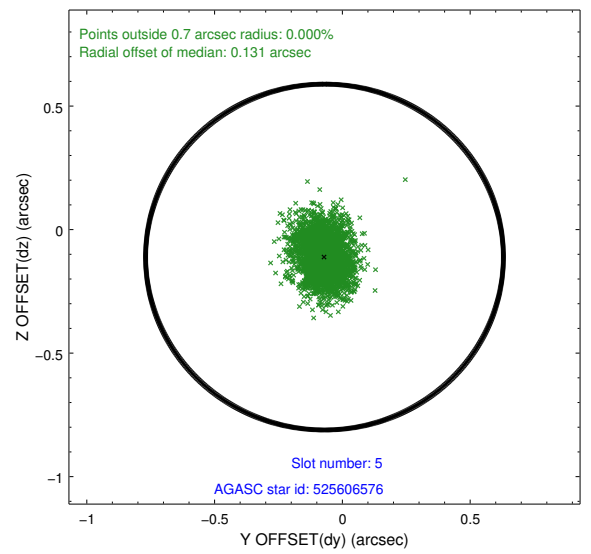
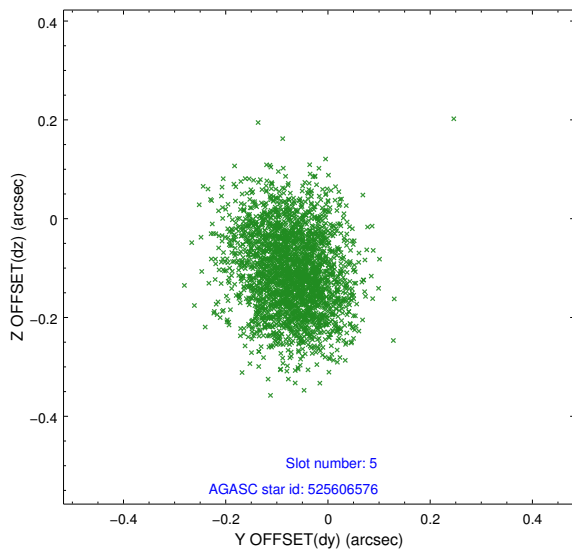
### 2.4.1 Slot 3



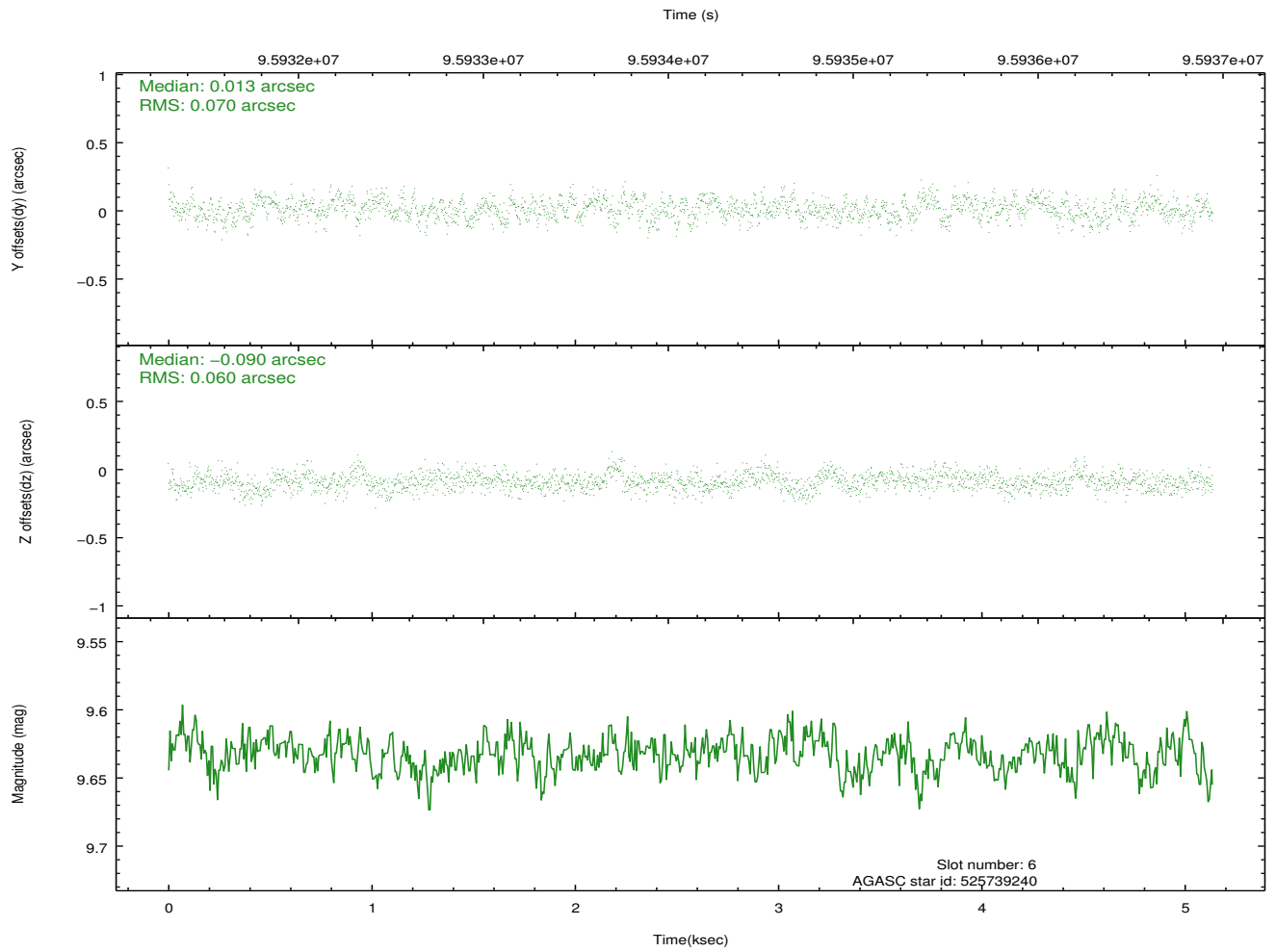
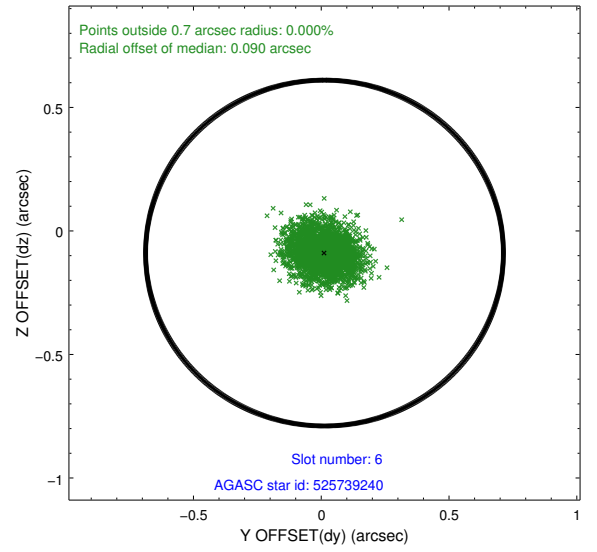
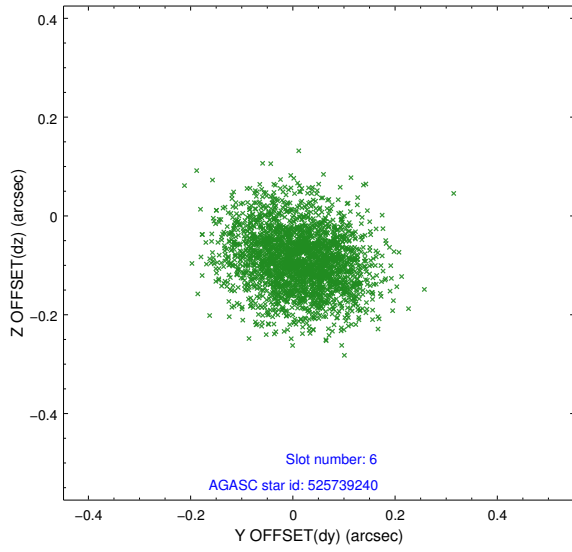
## 2.4.2 Slot 4



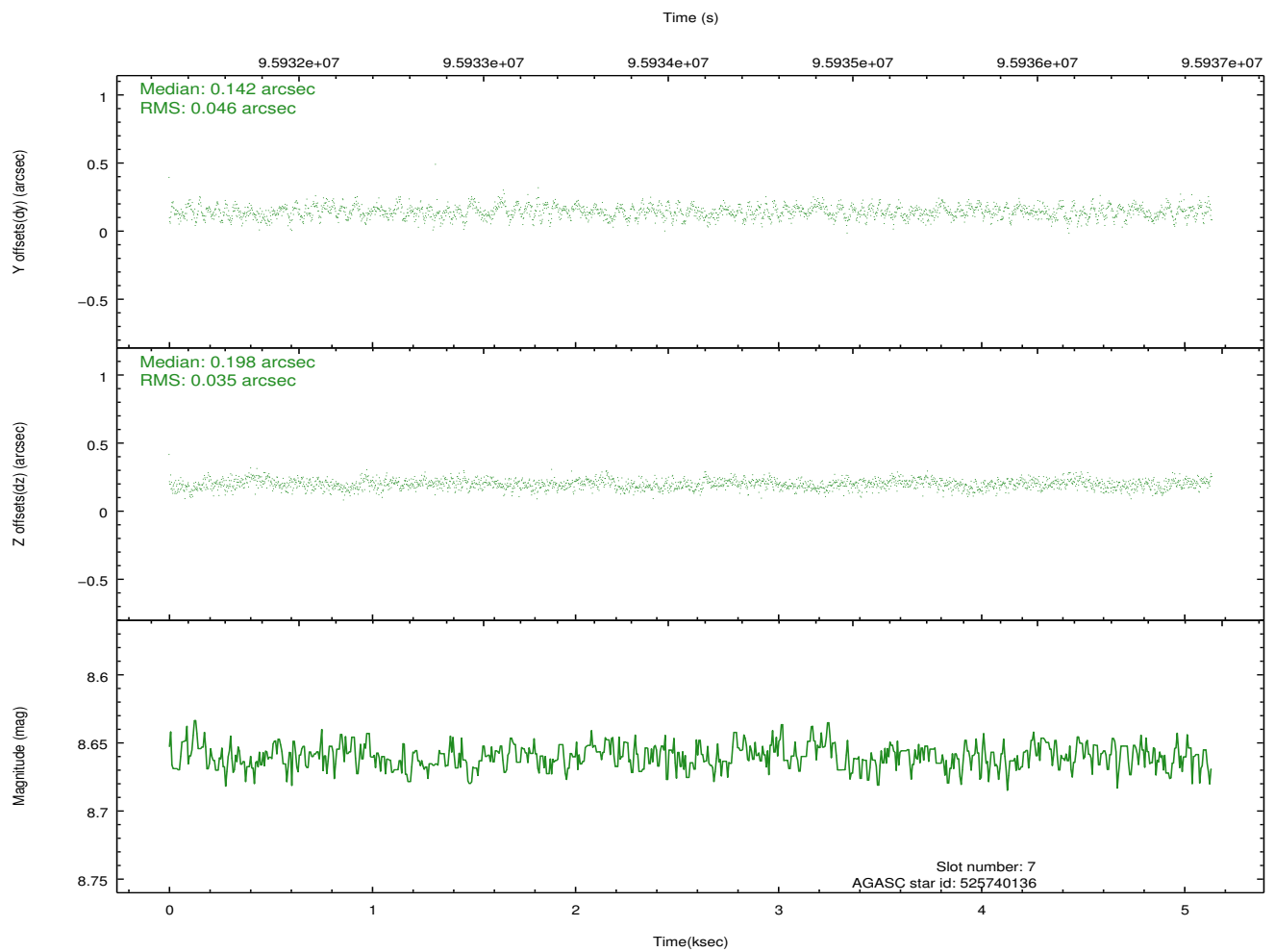
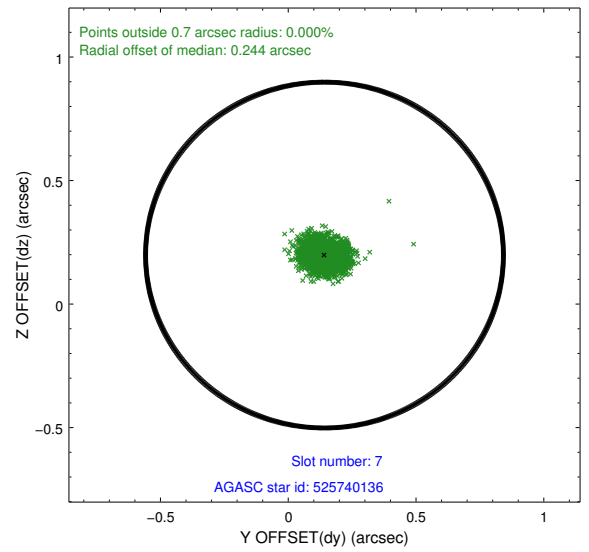
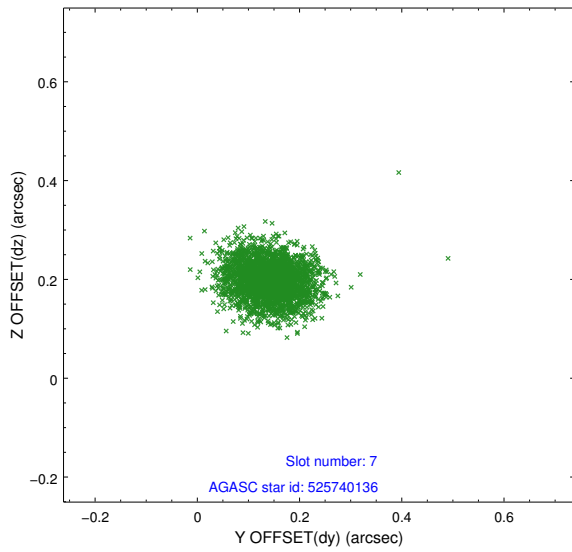
### 2.4.3 Slot 5



## 2.4.4 Slot 6

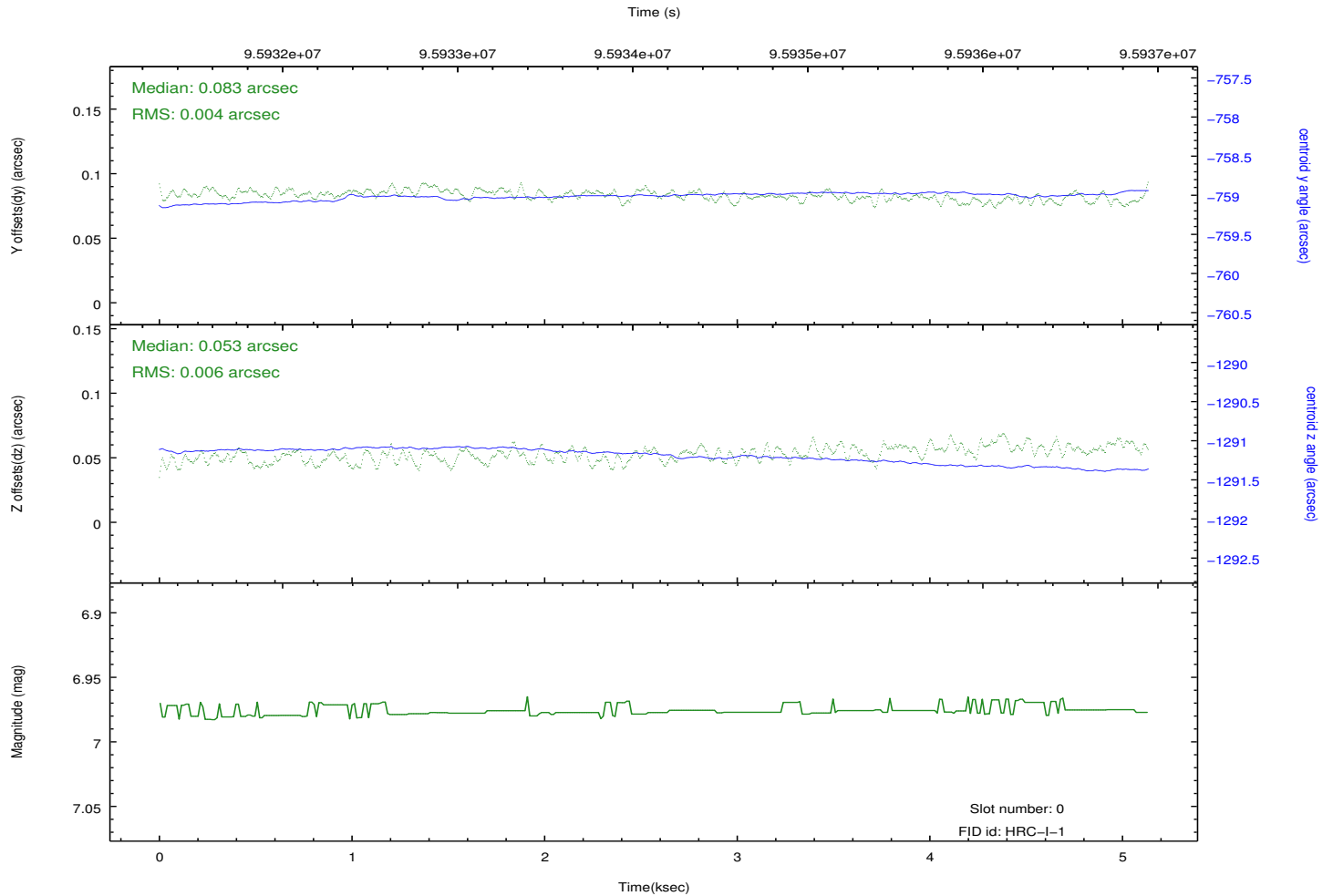
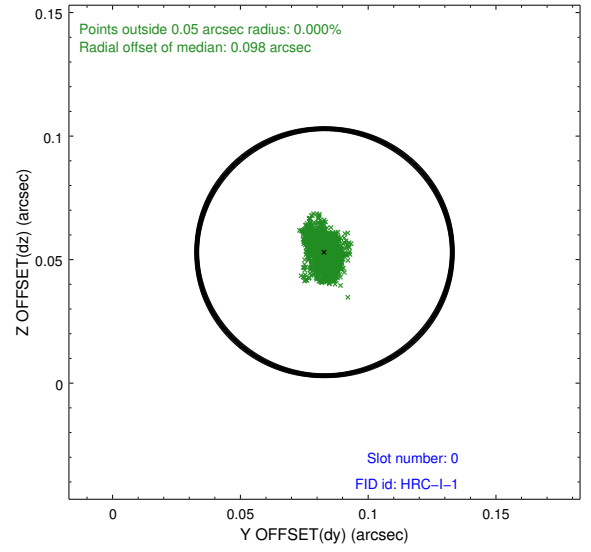
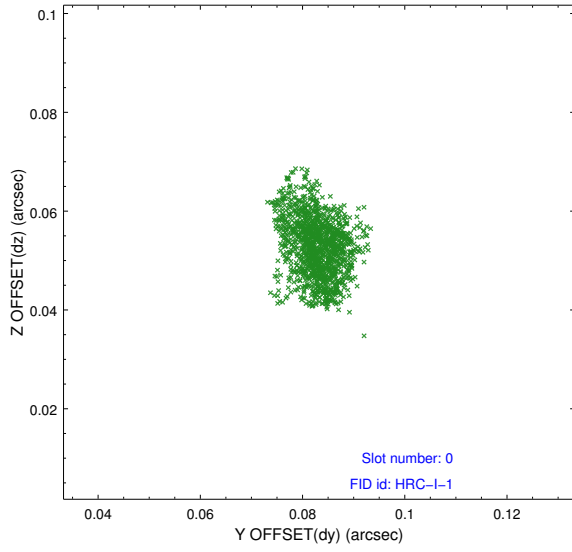


## 2.4.5 Slot 7

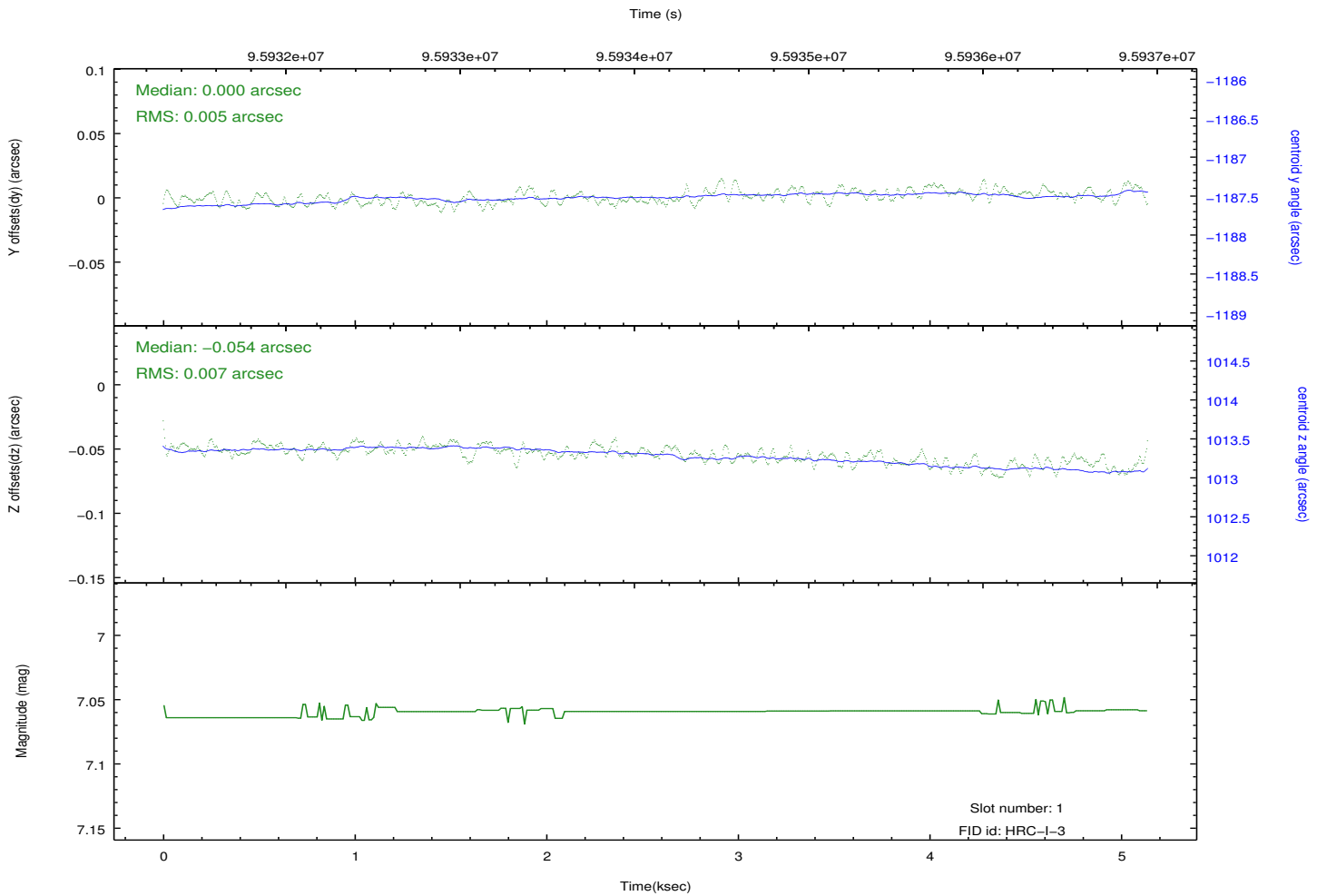
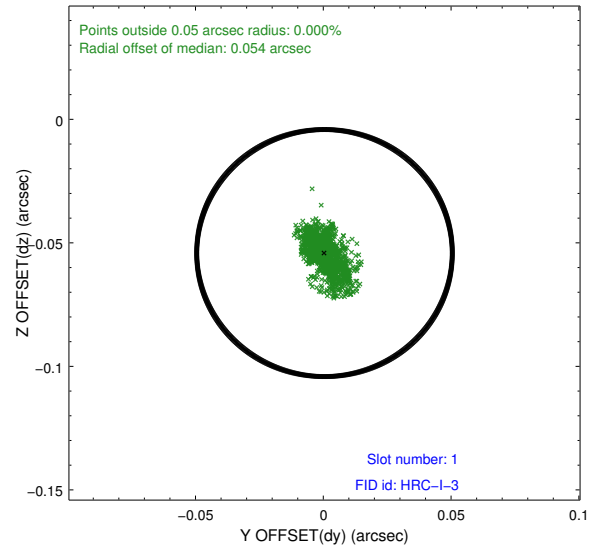
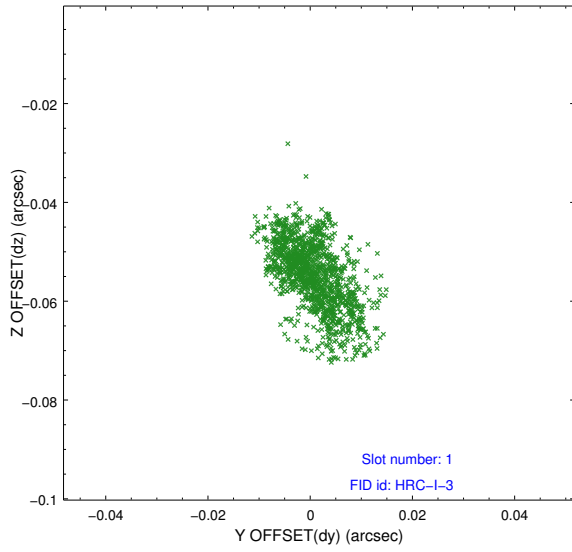


## 2.5 FID Slots

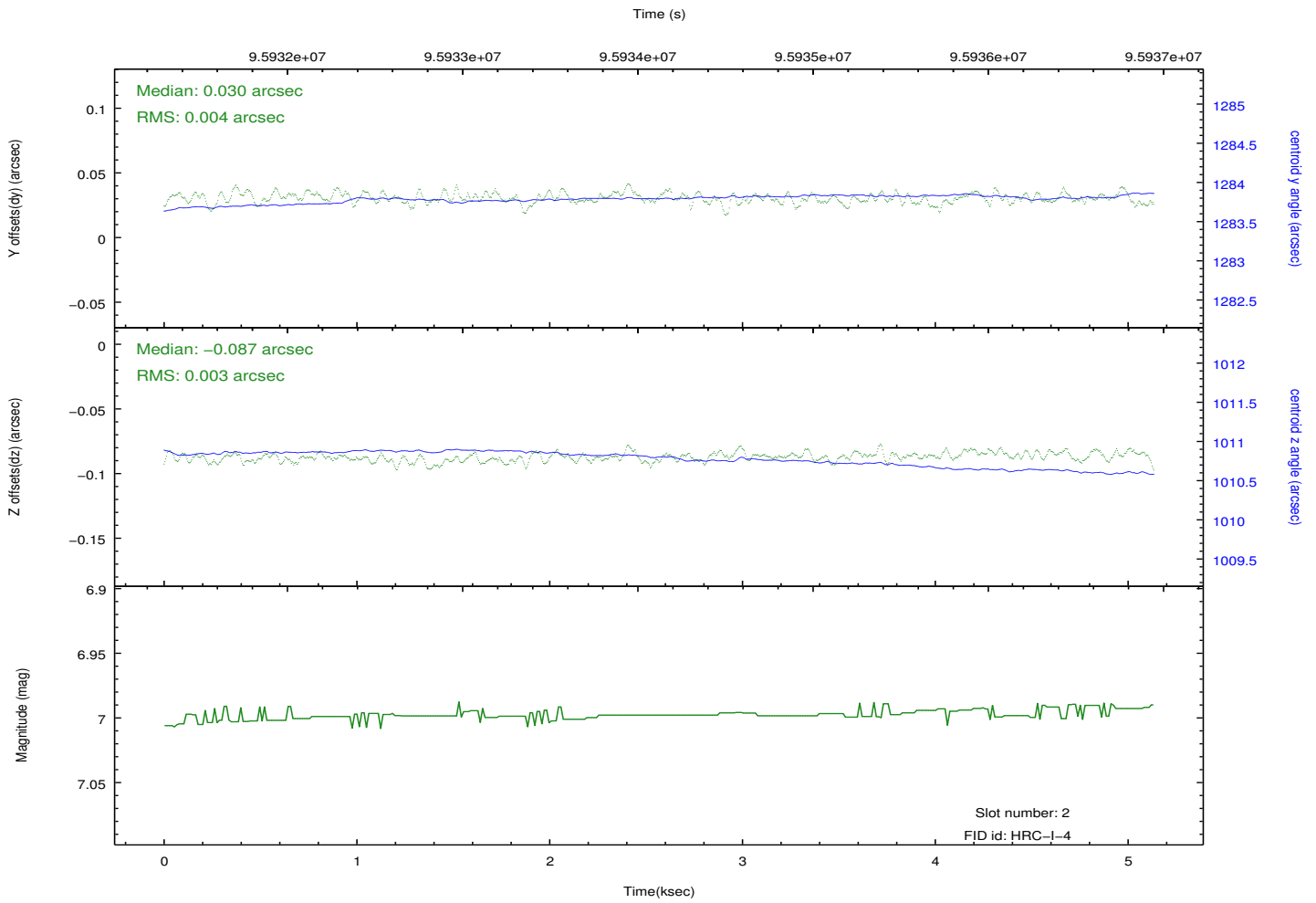
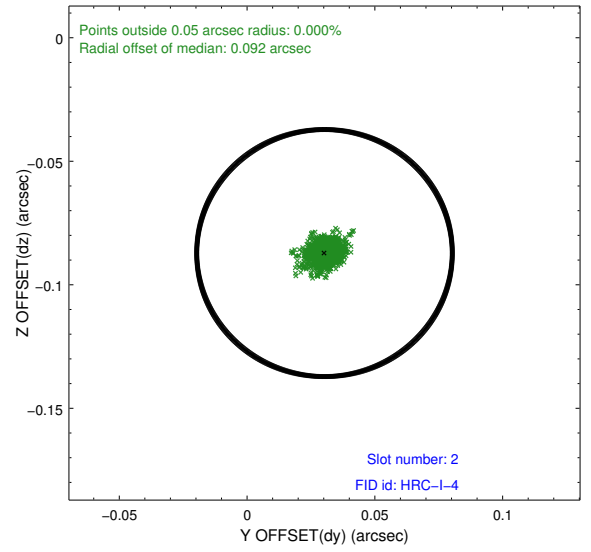
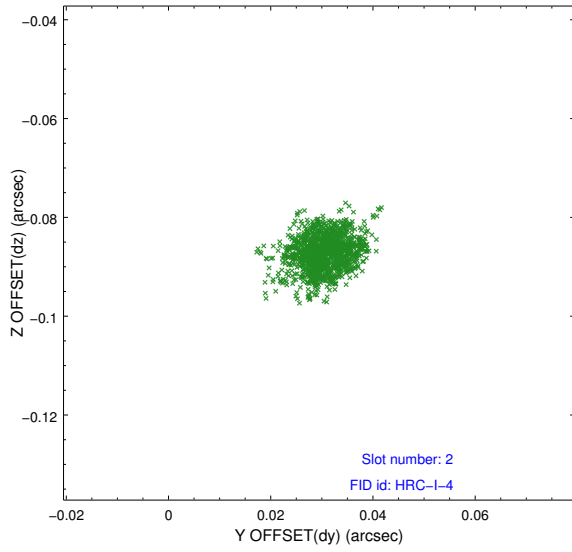
### 2.5.1 Slot 0



## 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)	2012.09.14
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.983

## A.2 Comments

Window constraint met.