

# V&V Reference Report

## L2 ASCDS Version : 8.2.1

Observation 1295 - L2 Version 3

Chandra X-Ray Center

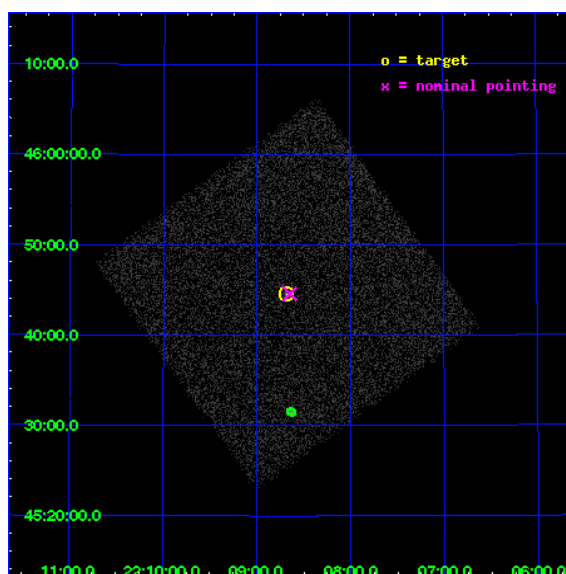
L2 Processing Date : Jan 12 2010

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# 1 Front

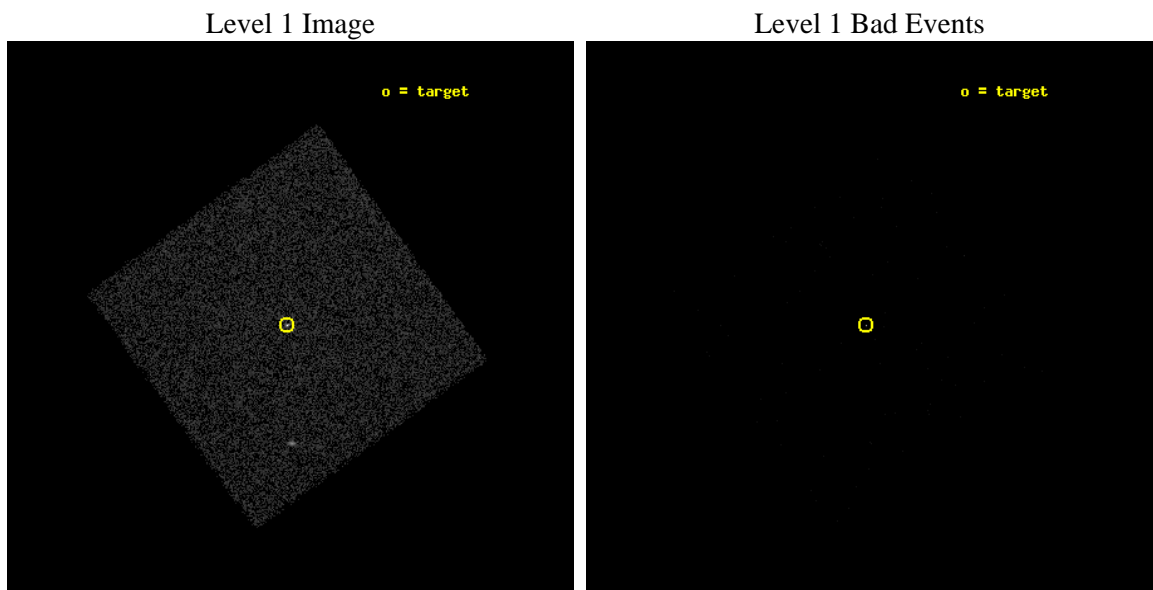
seq_num	280245	Sequence number
obs_id	1295	Observation id
title	&#160	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.1701	Observer's specified target RA
dec_targ	45.7423	Observer's specified target Dec
ra_nom	332.16171121585	Nominal RA
dec_nom	45.743416731216	Nominal Dec
roll_nom	188.93919824567	Nominal Roll
revision	3	Processing version of data
ontime	796.68127861619	[s]
livetime	790.73533477213	Ontime multiplied by DTCOR
l2events	25780	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	Scheduled observation exposure time
ascdsver	8.2.1	Processing system revision	ontime	796.68127861619	[s]
caldbver	4.1.5	&#160	l1events	45859	Number of level 1 events
date	2010-01-12T15:37:38	Date and time of file creation			
revision	3	Processing version of data			

### 2.1.3 Events

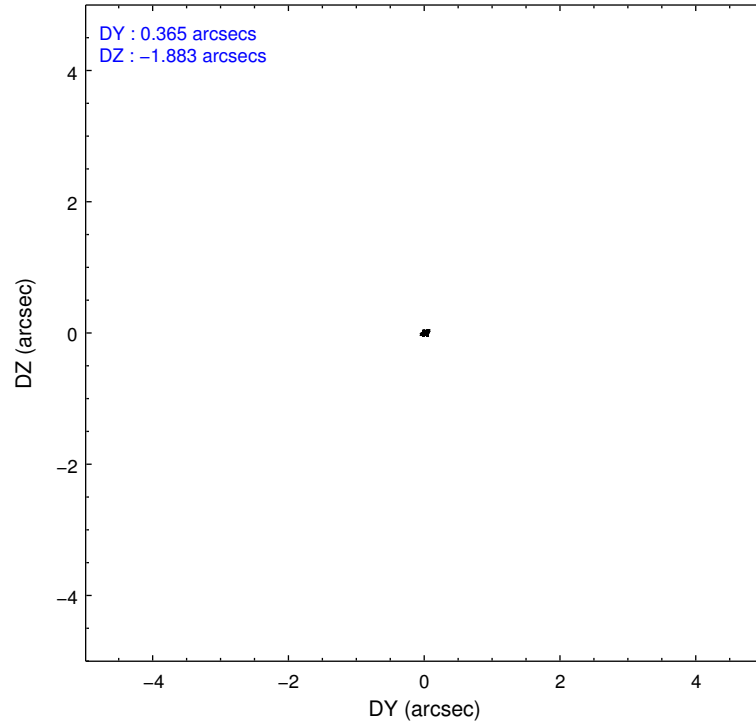
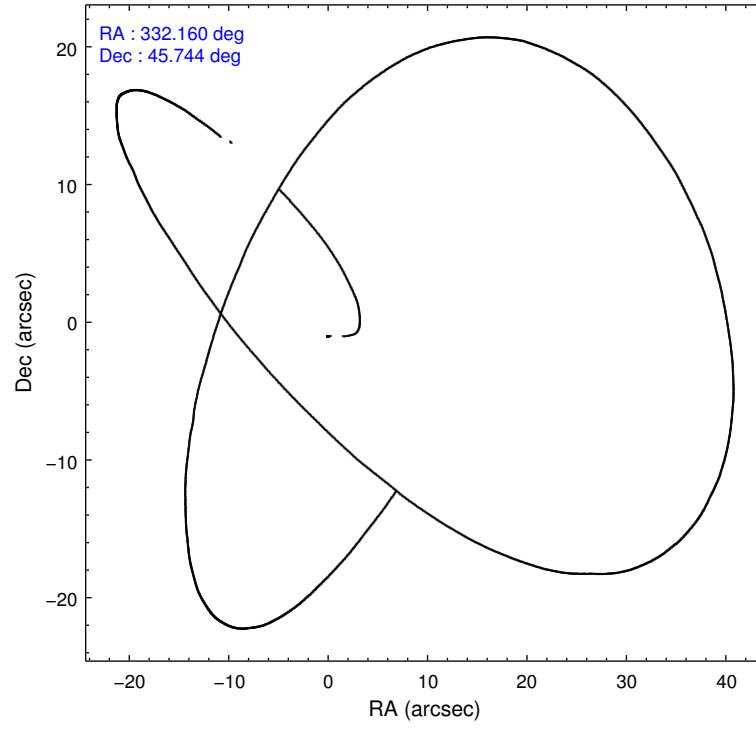
#### Level 1 Events

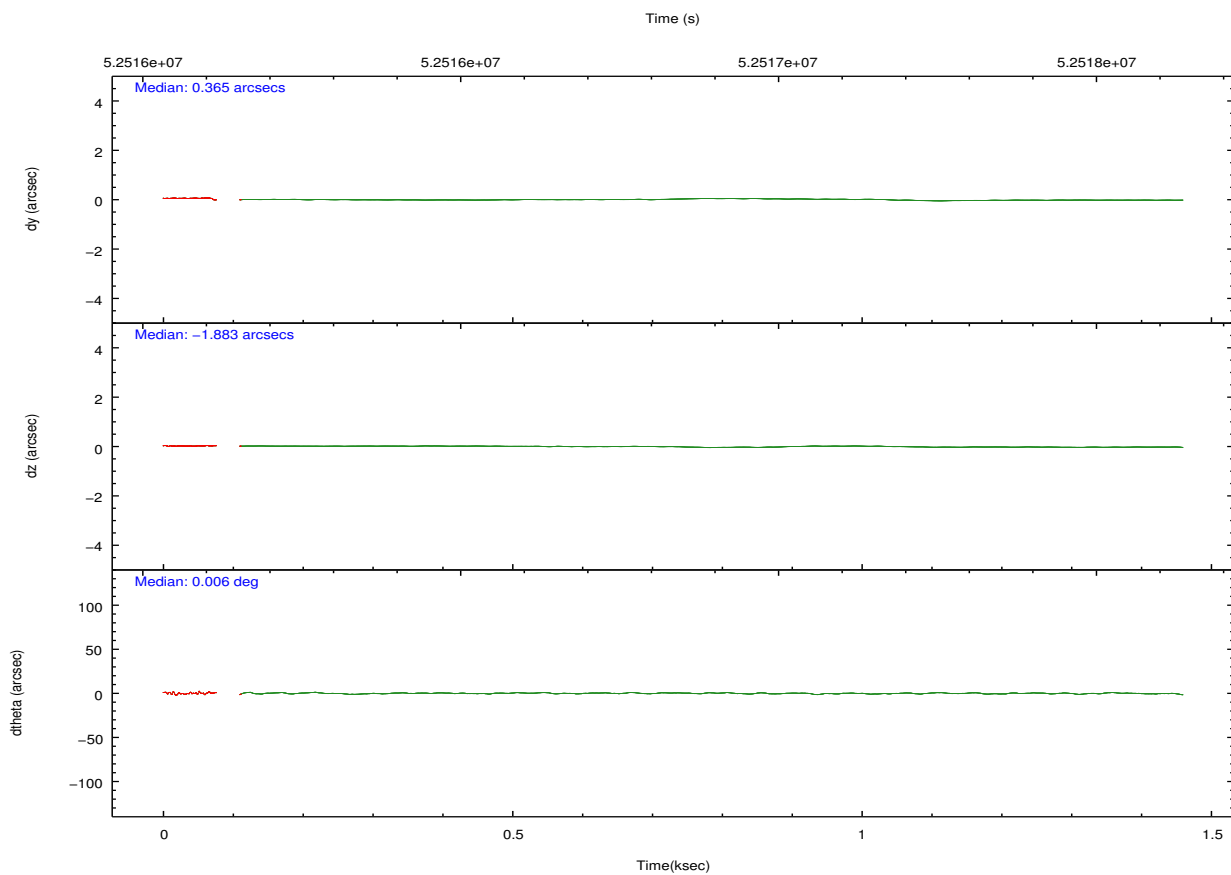
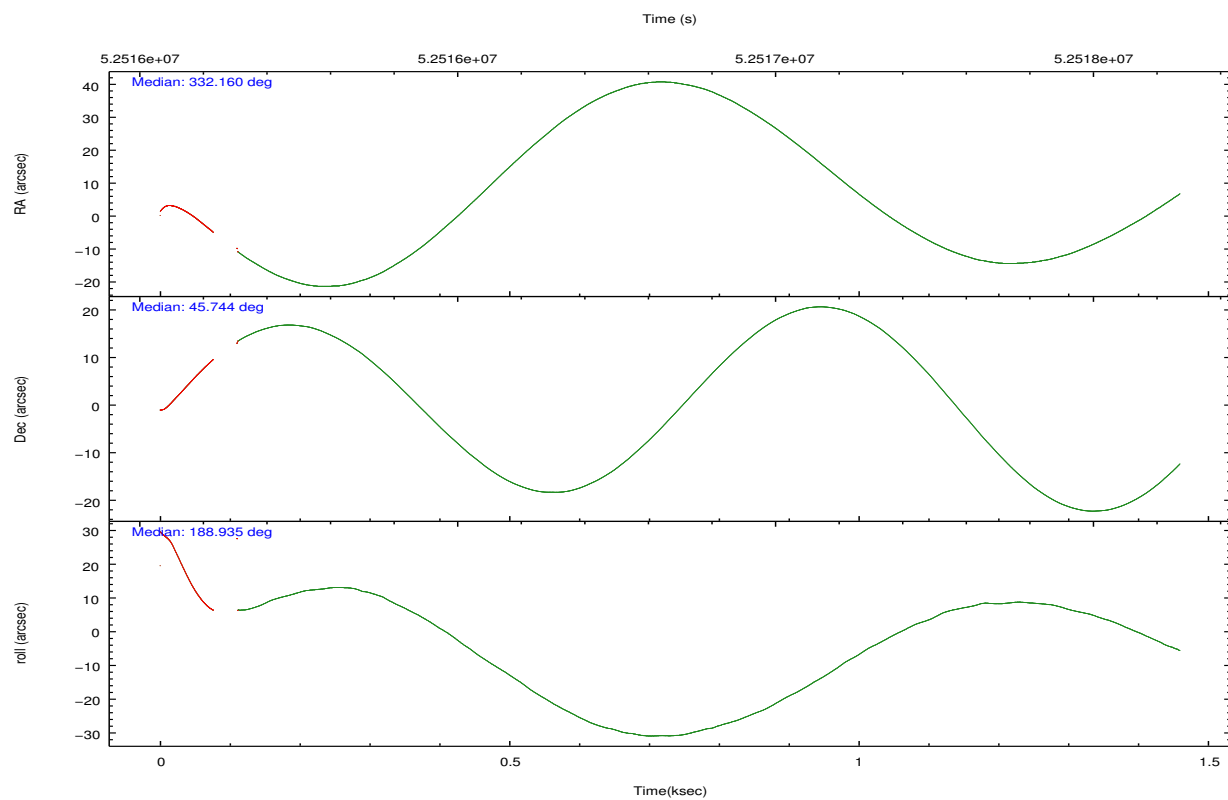
	<b>segment 0</b>
level 1 events	45859
rejected events	2606
rejected %	5%

## 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	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	OBSERVING	OBSERVING			
Observation mode	POINTING	POINTING			
Pointing RA	332.193950	332.1617112158471			
Pointing Dec	45.760804	45.74341673121575			
Pointing Roll	189.011245	188.9391982456651			
SIM focus pos (mm)	-2.502172	-0.3221915062399274			
SIM defocus (mm)	-1.461879	0.7181011144189471			
SIM translation stage pos (mm)	126.985494	126.9829799899862			
SIM translation stage offset (mm)	0	0.002508901615314585			
Observation start time	52516564.184000	52515111.49925			
Observation start date	1999-08-31T19:55:00	1999-08-31T19:31:51			
Observation end time	52517564.184000	52517712.949343			
Observation end date	1999-08-31T20:11:40	1999-08-31T20:15:12			

## 2.3 Aspect





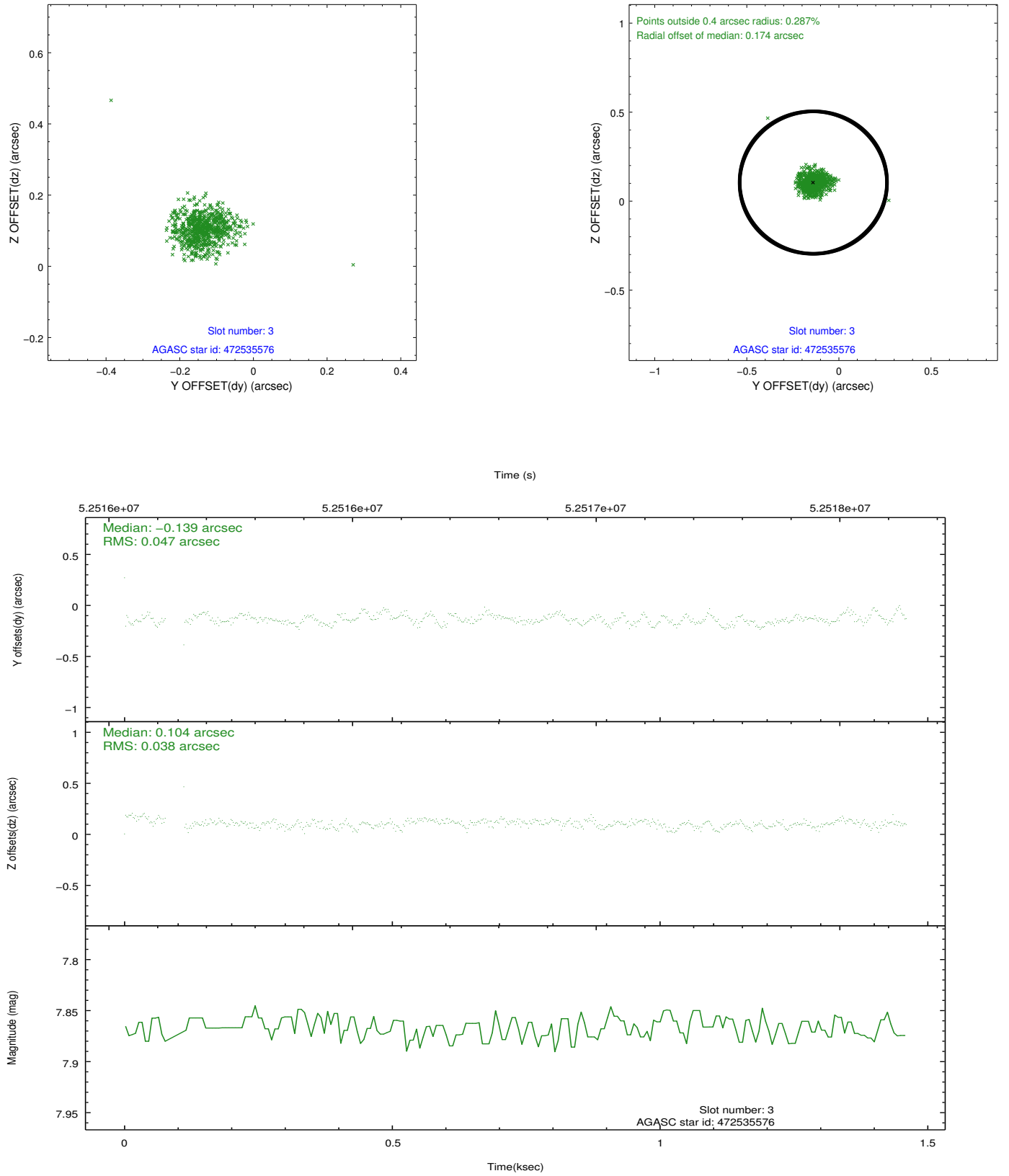
Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-I-1	6.95	697	0.045	-0.066	0.006	0.013	0.000000	0.000000	-755.74	-1285.91
1	FID	HRC-I-3	7.04	697	0.072	0.005	0.006	0.013	0.000000	0.000000	-1185.41	1017.05
2	FID	HRC-I-4	6.97	697	0.002	-0.032	0.005	0.010	0.000000	0.000000	1285.38	1018.01
3	GUIDE	472535576	7.87	697	-0.139	0.104	0.060	0.096	331.438373	46.291802	1550.77	-2190.91
4	GUIDE	472527720	6.99	697	-0.012	-0.059	0.050	0.095	331.460205	45.112509	2202.56	2001.81
5	GUIDE	472665256	9.02	697	0.108	-0.045	0.065	0.116	332.808125	46.195041	-1758.89	-1307.37
6	GUIDE	472659832	9.46	696	0.040	0.000	0.076	0.131	332.780399	46.098139	-1644.26	-977.45
7	BAD	472654568	9.48	498	-0.140	-0.256	0.190	0.268	332.194449	45.063576	383.93	2470.10

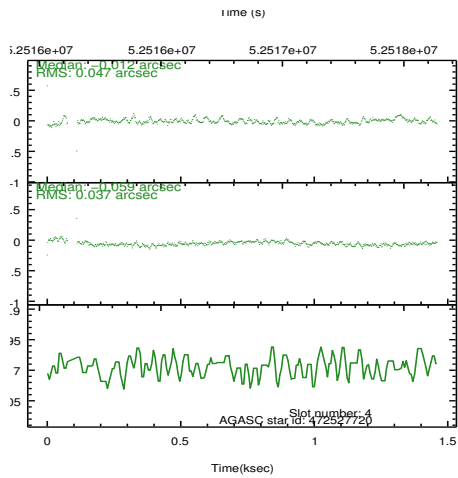
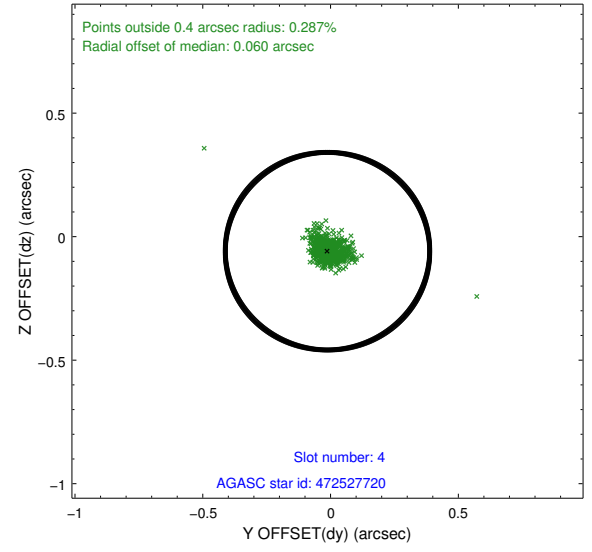
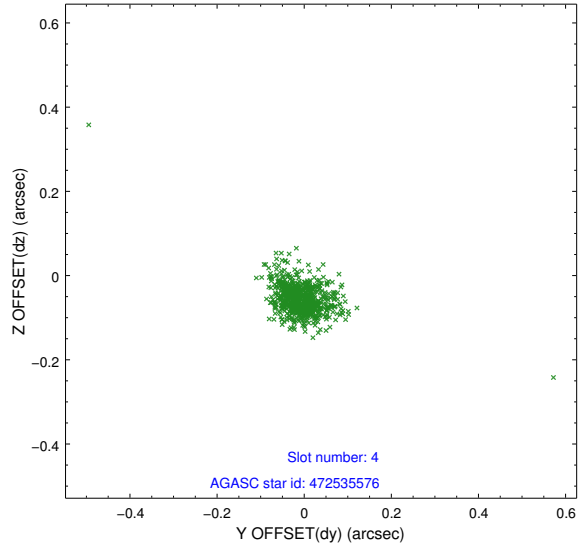


## 2.4 Star Slots

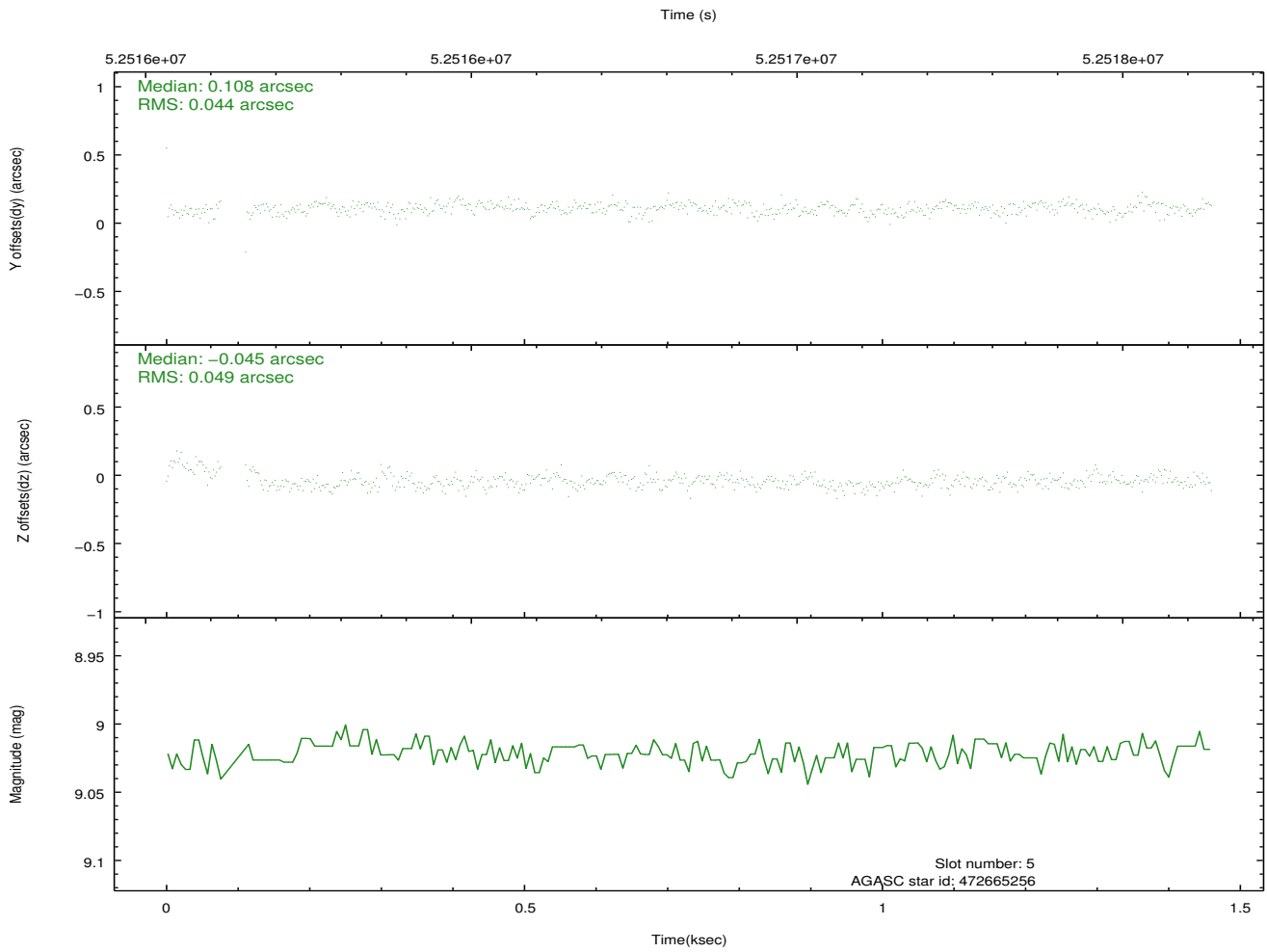
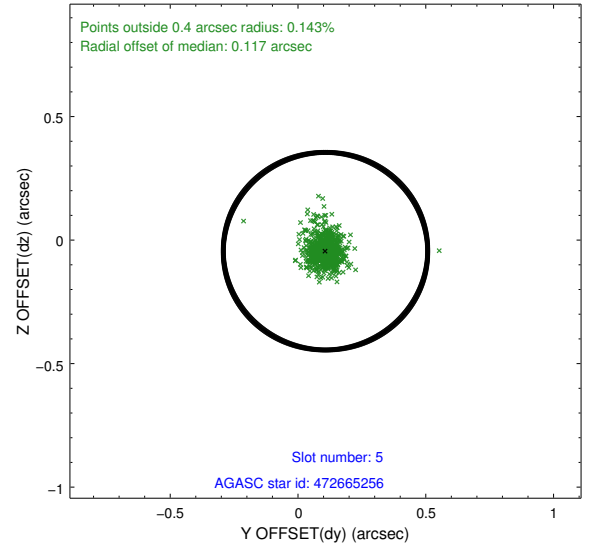
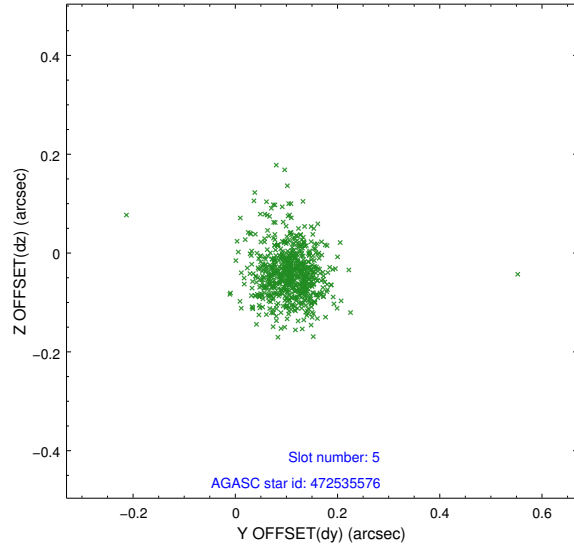
### 2.4.1 Slot 3



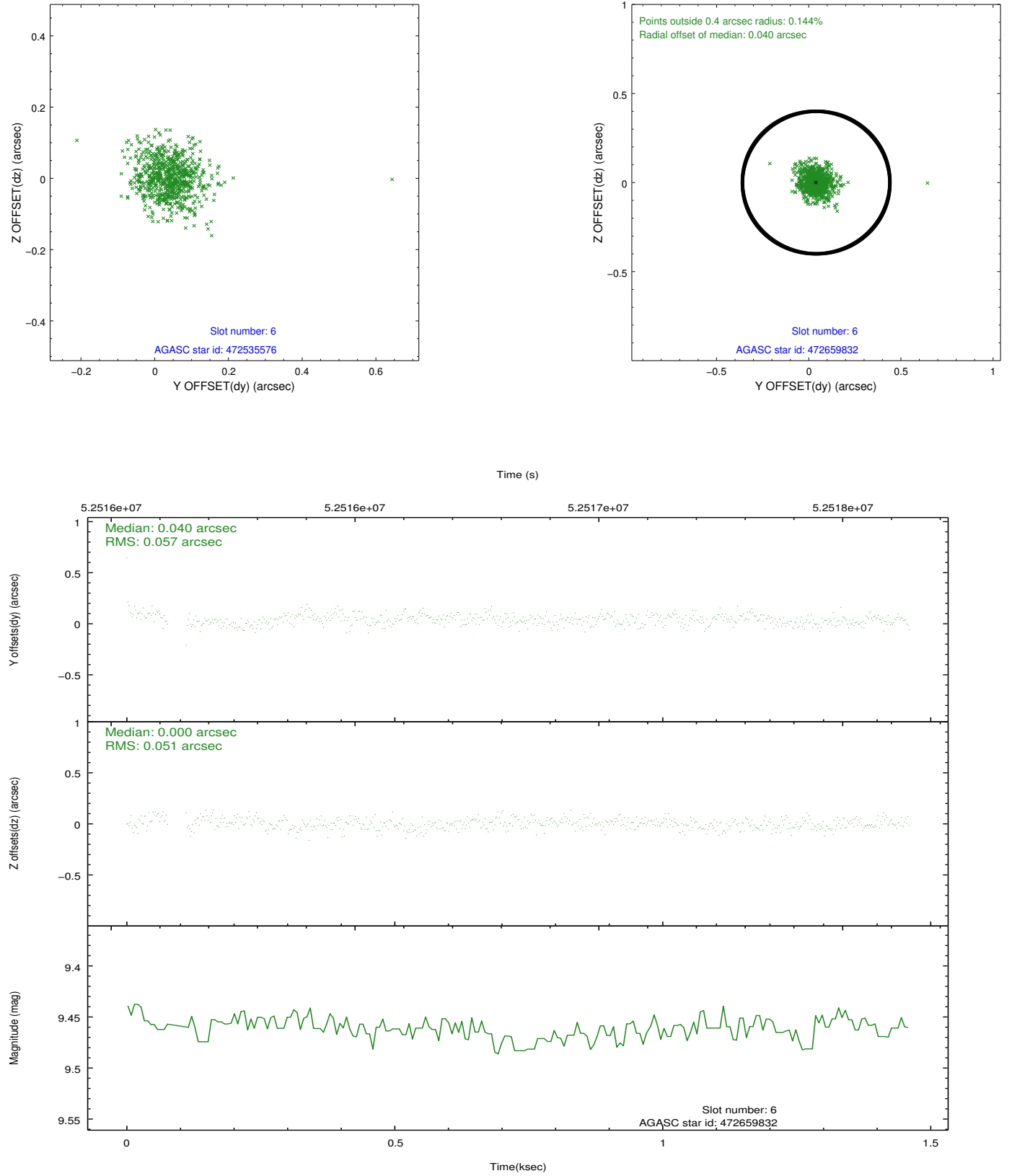
## 2.4.2 Slot 4



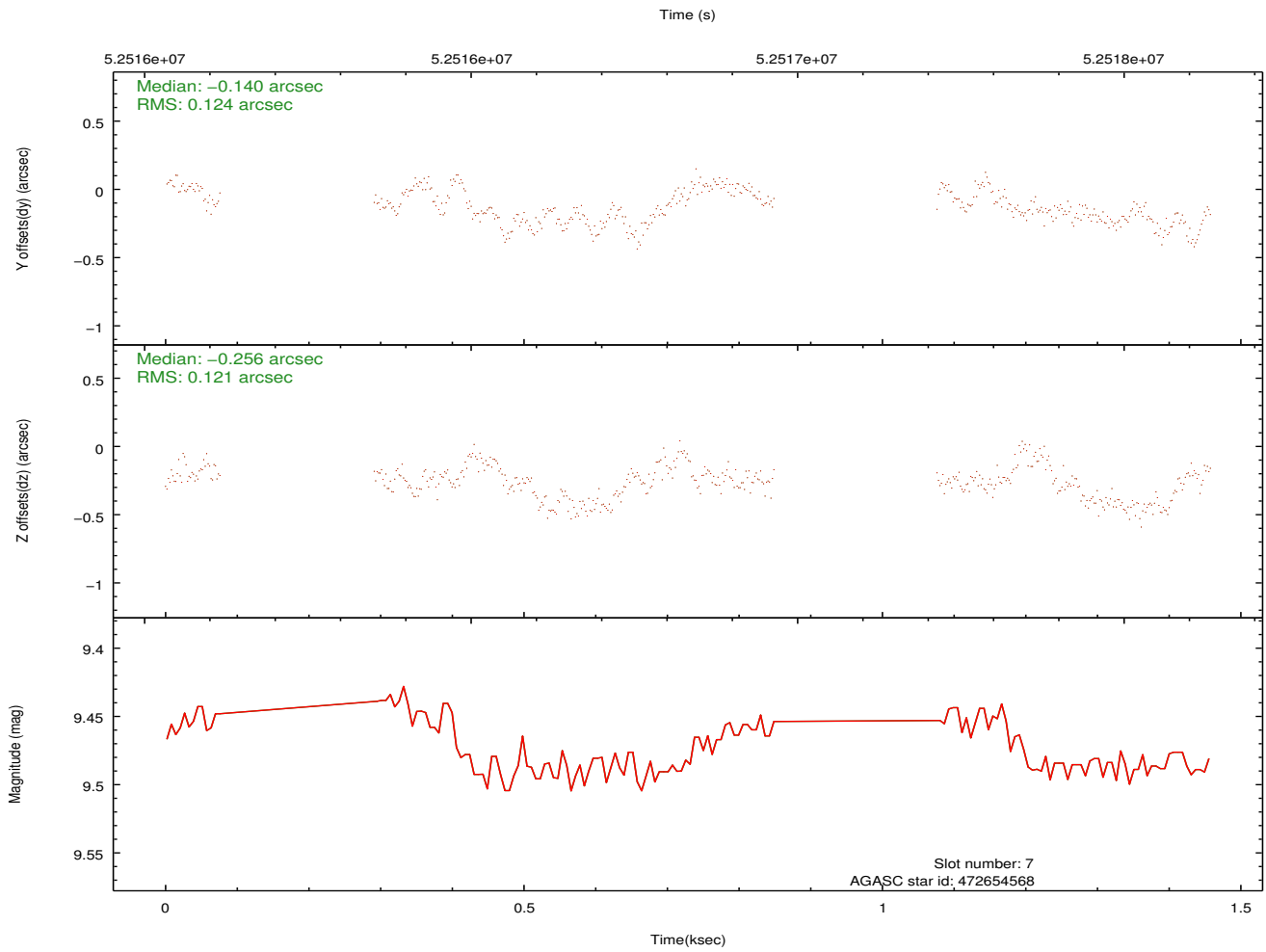
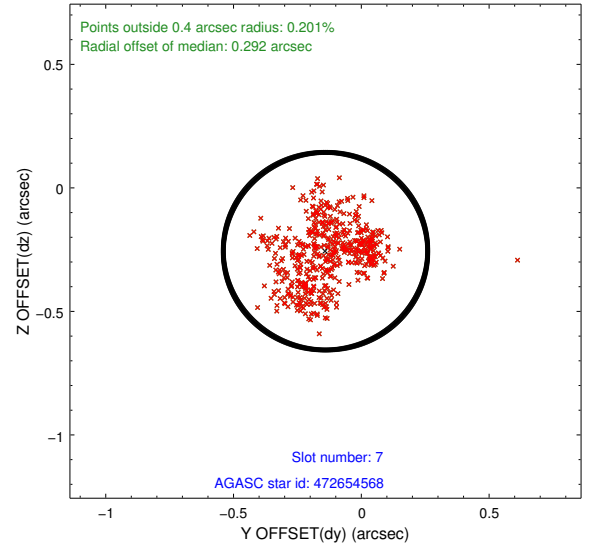
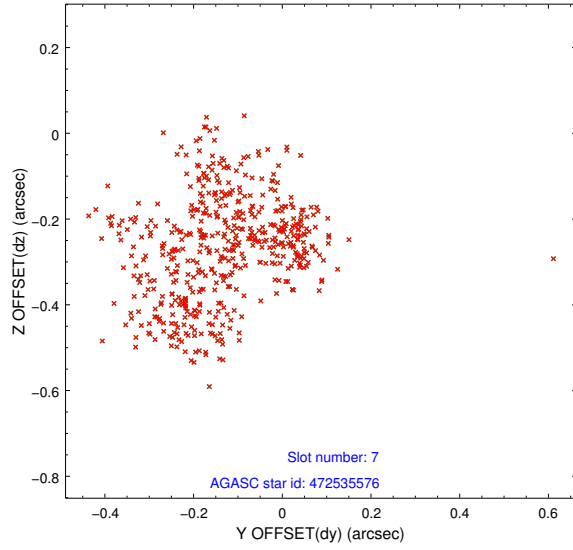
### 2.4.3 Slot 5



## 2.4.4 Slot 6

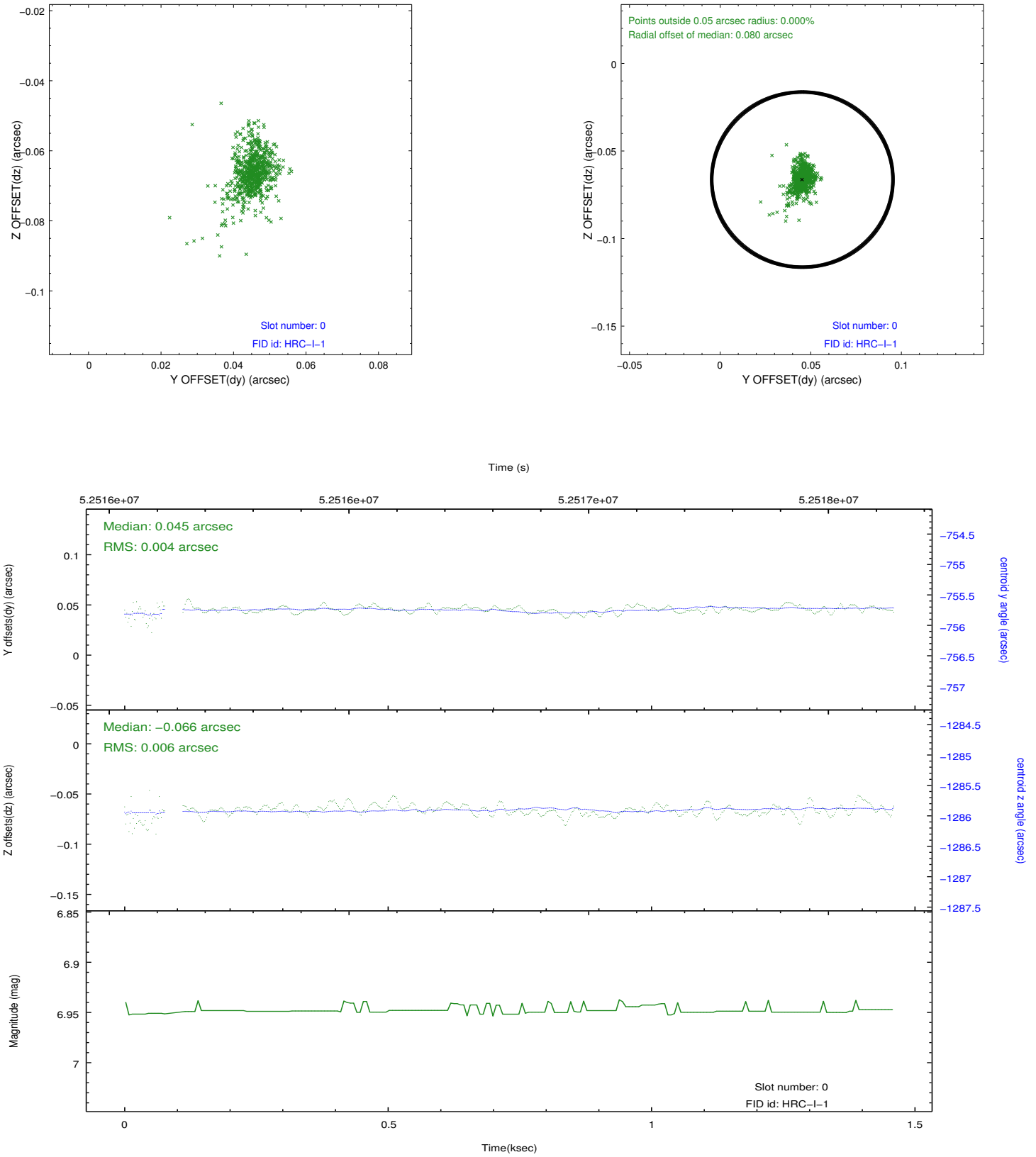


## 2.4.5 Slot 7

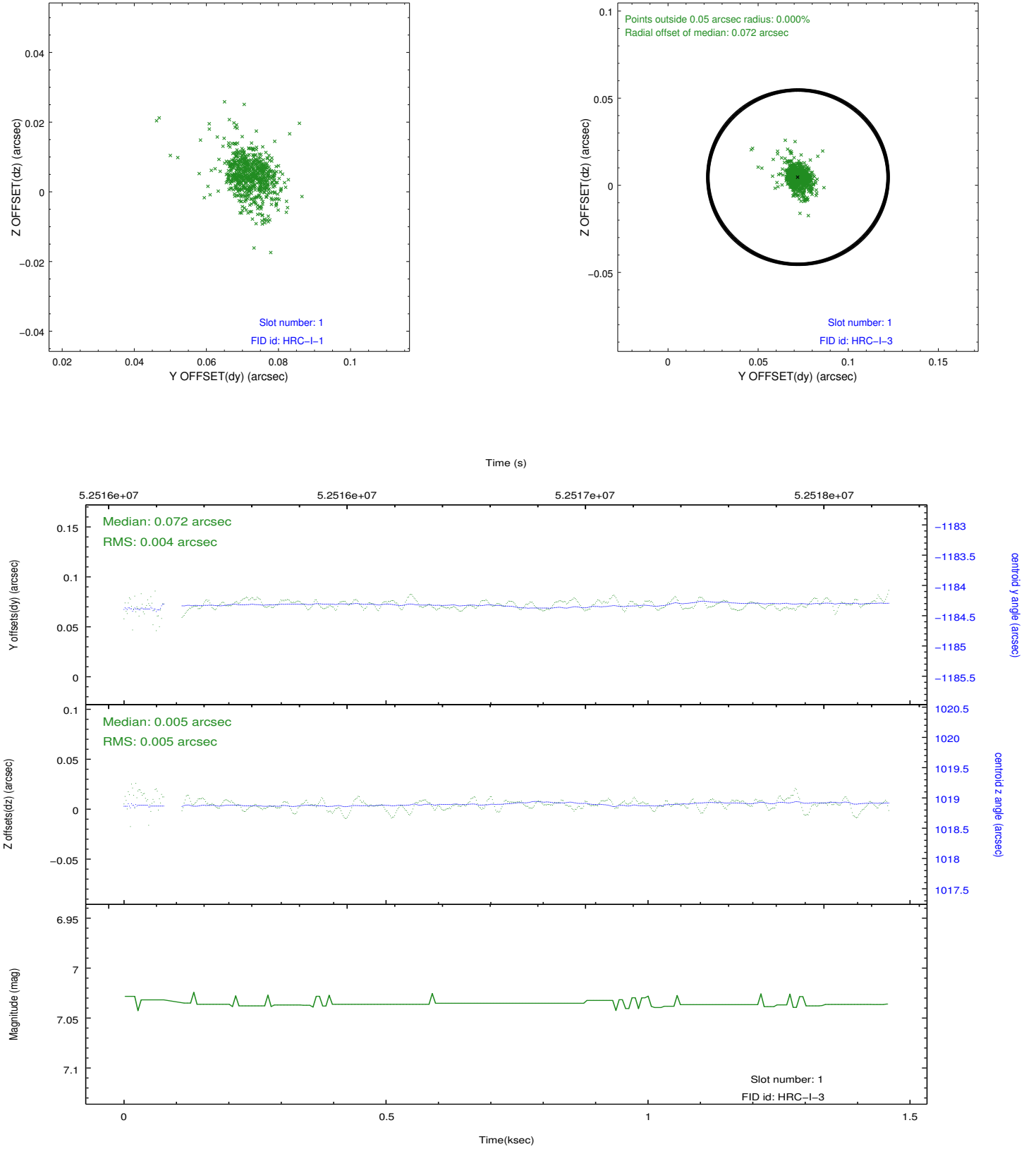


## 2.5 FID Slots

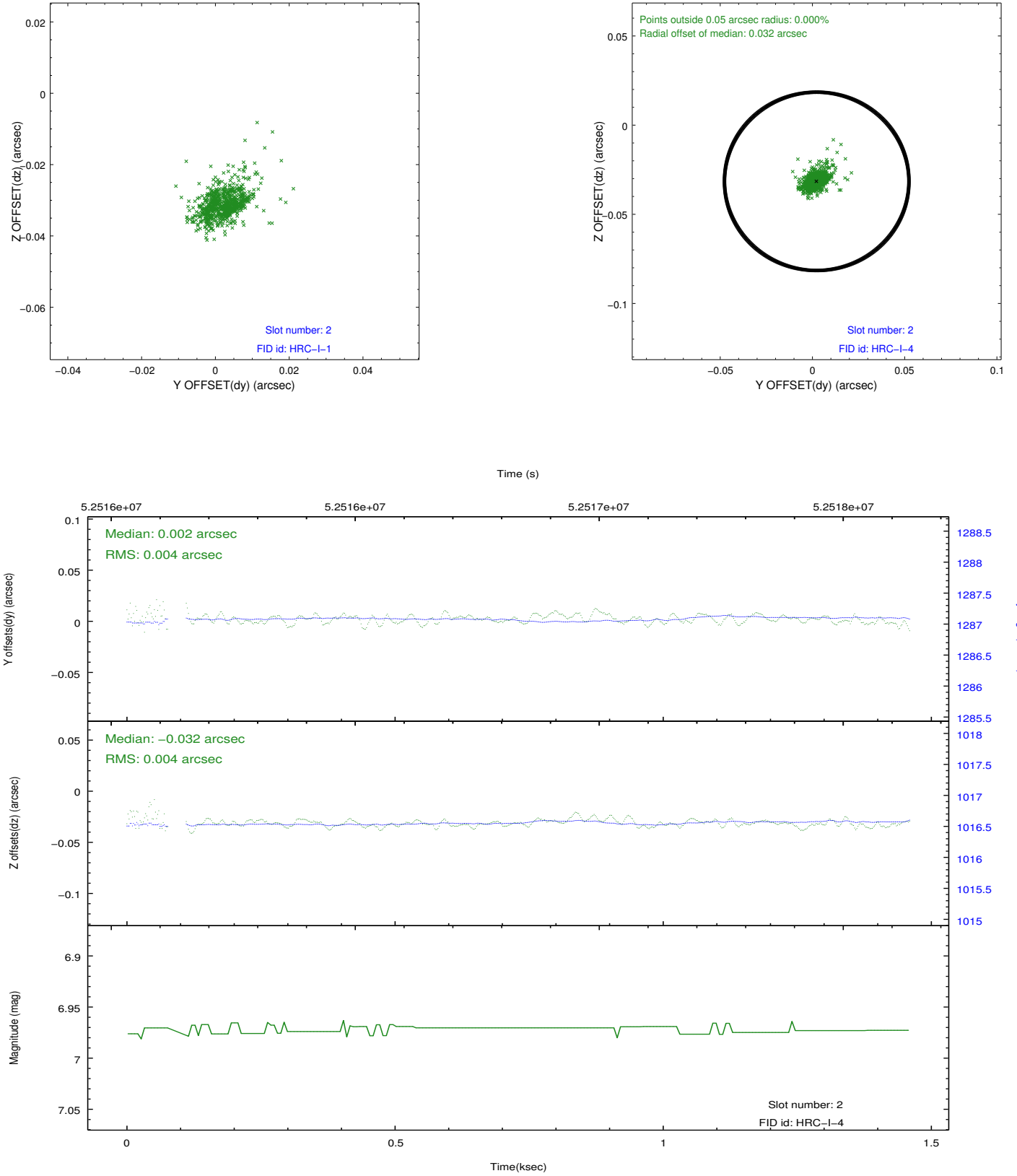
### 2.5.1 Slot 0



## 2.5.2 Slot 1



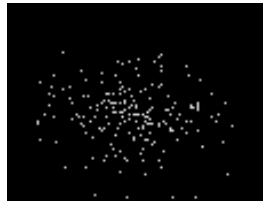
### 2.5.3 Slot 2





### 3 Point Sources

13.15 arcmin



# A Summary

## A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2010.01.21
V&V Edition	2
V&V Disposition and Status	OK
V&V Charge Time	0.794

## A.2 Comments

This observation is part of a focus series with focus values around the estimated correct HRC focus. HRC using manual commanding to revised focus position (-220) while maneuvering for the observation

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The guide star in slot 7 was excluded from the aspect solution due to poor data quality. The aspect solution is not expected to be degraded by removing one fid light or guide star from the solution.

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Charge time for this observation remains at previous value of 0.794 ksec, although with the current processing the charge time would have been 0.796 ksec.

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There is a data gap in the aspect data early in the observation due to a SIM movement, but this is before the HRC high voltage was turned on.