

# V&V Reference Report

## L2 ASCDS Version : 8.3.2.1

Observation 1322 - L2 Version 5

Chandra X-Ray Center

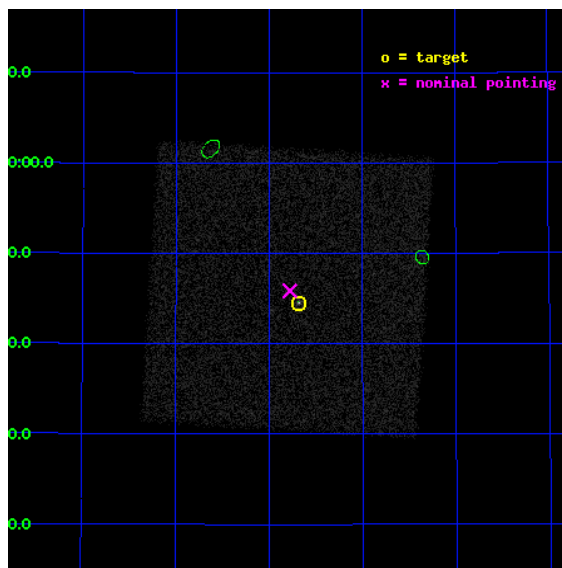
L2 Processing Date : Sep 28 2010

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# 1 Front

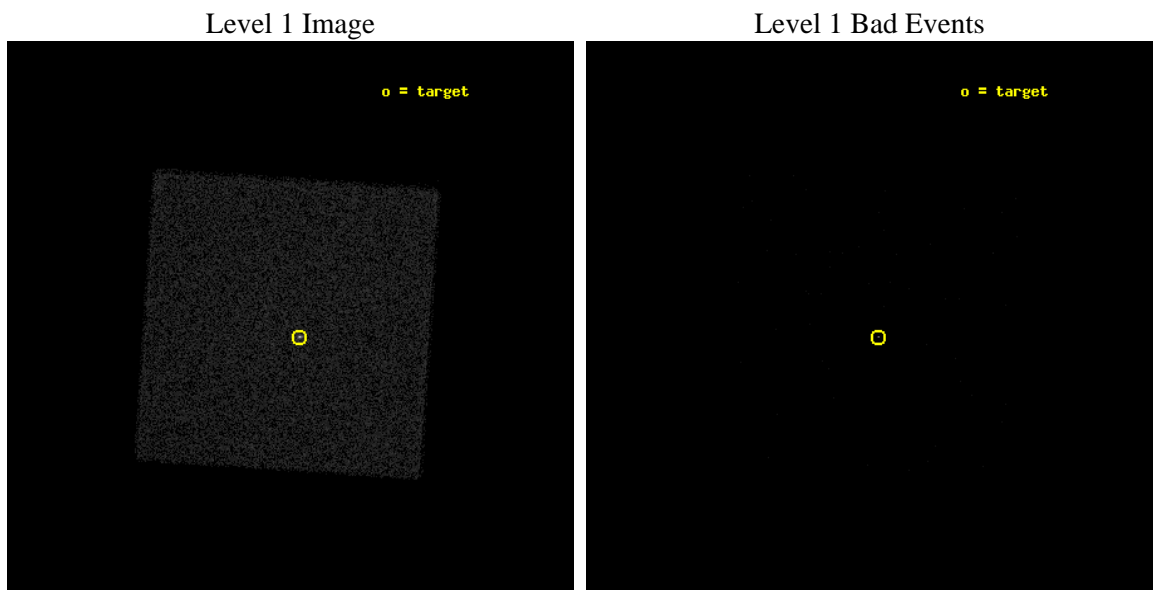
seq_num	280272	Sequence number
obs_id	1322	Observation id
title	&#160	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.1701	Observer's specified target RA
dec_targ	45.7423	Observer's specified target Dec
ra_nom	332.19422591348	Nominal RA
dec_nom	45.764625554678	Nominal Dec
roll_nom	228.7650069566	Nominal Roll
revision	5	Processing version of data
ontime	1277.4062960222	[s]
livetime	1268.3089983958	Ontime multiplied by DTCOR
l2events	40406	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	8.3.2.1	Processing system revision	ontime	1277.4062960222	[s]
caldbver	4.3.1	&#160	l1events	69735	Number of level 1 events
date	2010-09-28T15:17:35	Date and time of file creation			
revision	4	Processing version of data			

### 2.1.3 Events

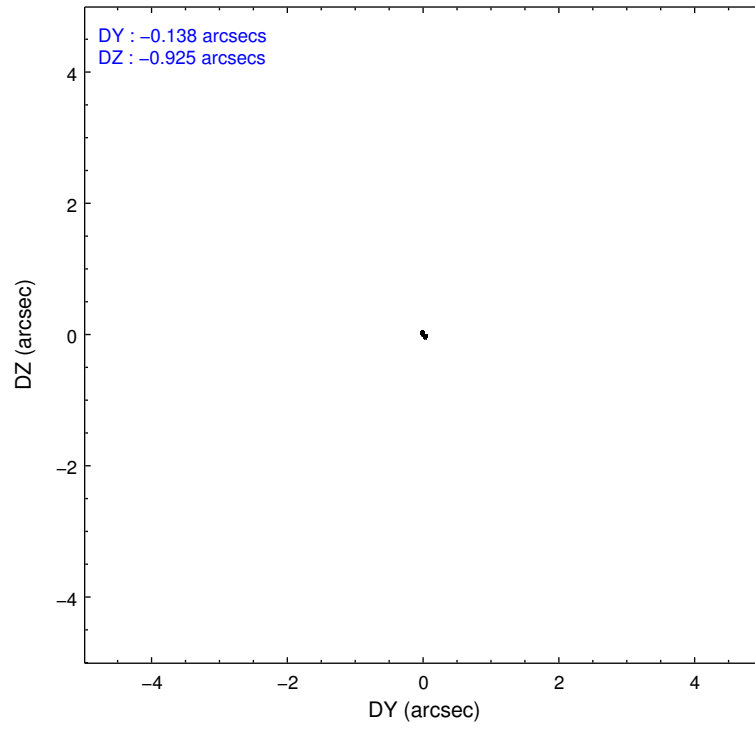
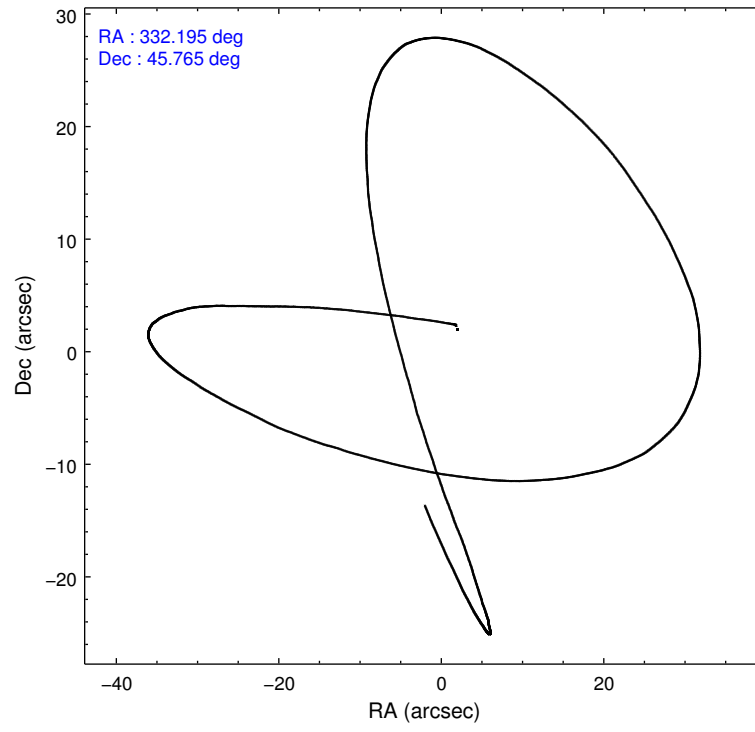
#### Level 1 Events

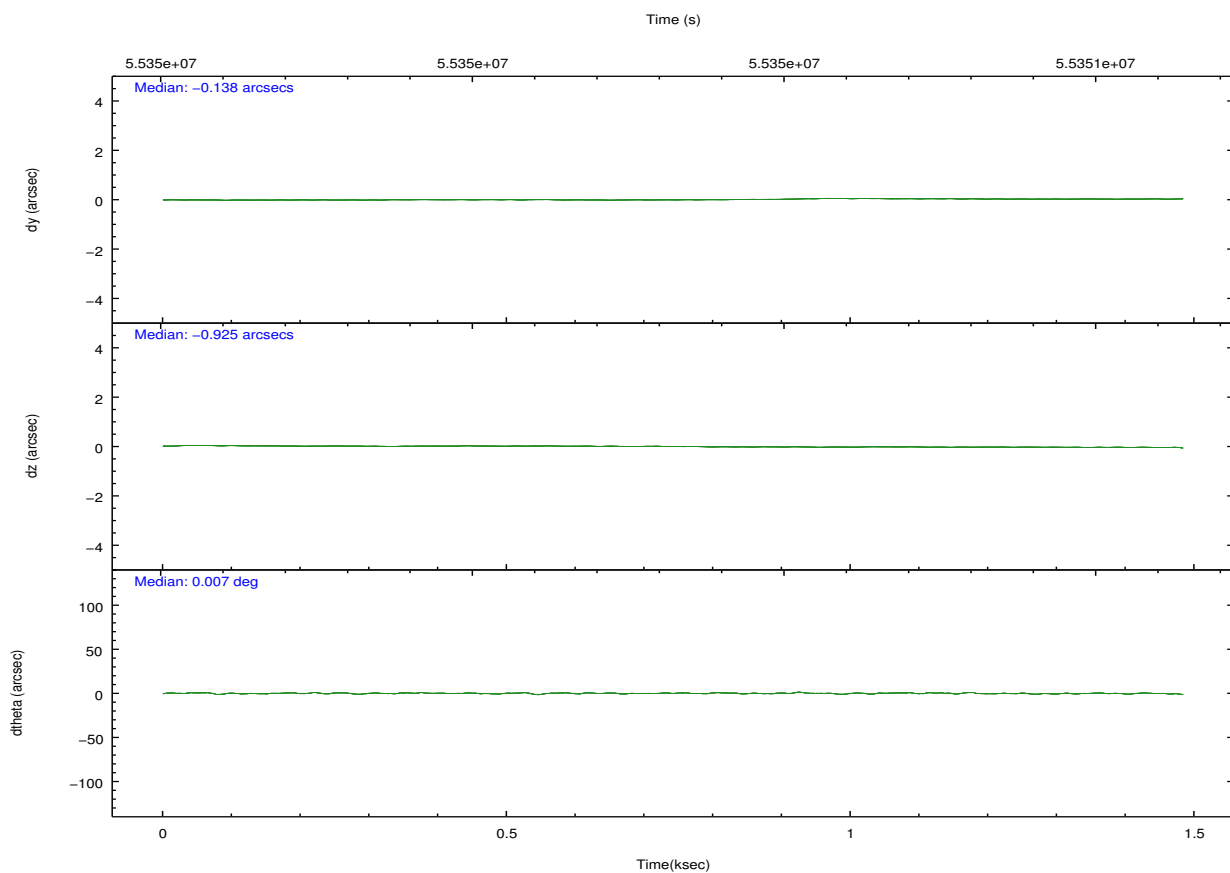
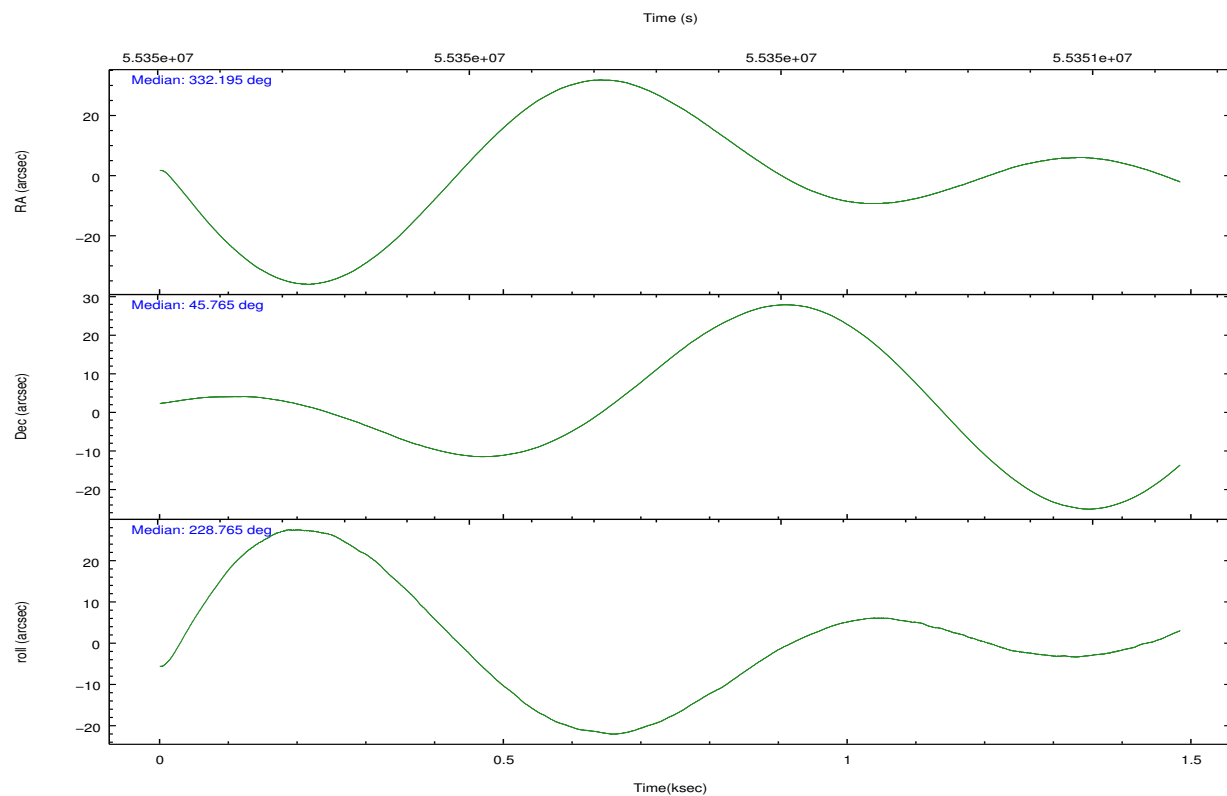
	<b>segment 0</b>
level 1 events	69735
rejected events	2616
rejected %	3%

## 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	332.202846	332.1942259134827			
Pointing Dec	45.792261	45.76462555467815			
Pointing Roll	228.854299	228.7650069566037			
SIM focus pos (mm)	-0.040293	-0.2342646132009995			
SIM defocus (mm)	1	0.806028007457875			
SIM translation stage pos (mm)	126.985494	126.9854943052878			
SIM translation stage offset (mm)	0	-5.413686238853188e-06			
Observation start time	55350064.184000	55349398.043908			
Observation start date	1999-10-03T15:00:00	1999-10-03T14:49:58			
Observation end time	55351064.184000	55351197.943973			
Observation end date	1999-10-03T15:16:40	1999-10-03T15:19:57			

## 2.3 Aspect





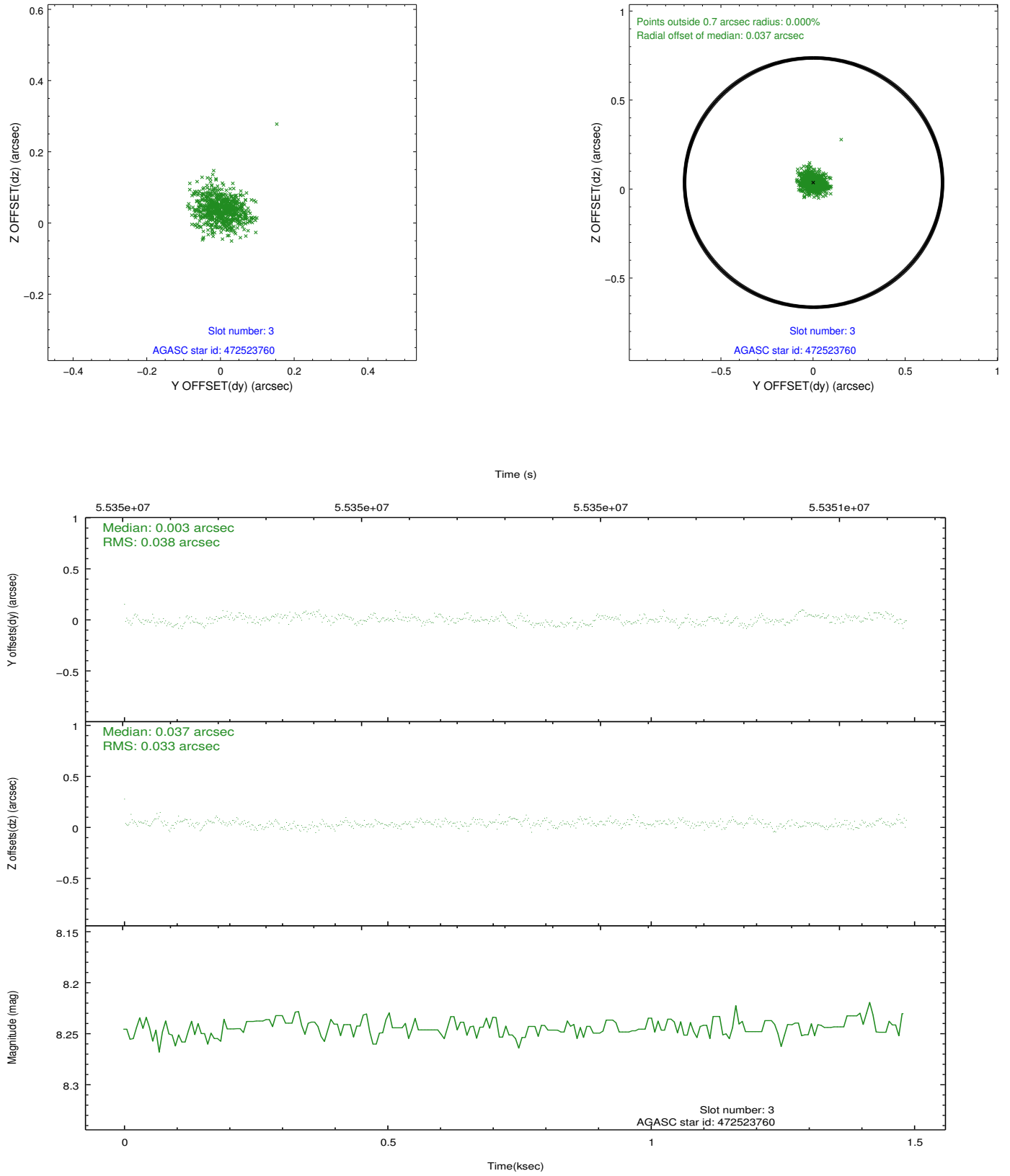
Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-I-1	6.94	725	0.043	-0.006	0.005	0.010	0.000000	0.000000	-755.25	-1286.88
1	FID	HRC-I-3	7.02	725	0.059	-0.044	0.006	0.010	0.000000	0.000000	-1184.86	1016.04
2	FID	HRC-I-4	6.96	725	0.012	-0.040	0.005	0.008	0.000000	0.000000	1285.98	1016.90
3	GUIDE	472523760	8.24	724	0.003	0.037	0.053	0.086	331.645363	45.403260	1975.36	-143.81
4	GUIDE	472665256	9.00	725	-0.021	-0.047	0.064	0.105	332.808125	46.195041	-2088.63	176.84
5	GUIDE	472659832	9.46	725	-0.040	0.051	0.083	0.142	332.780399	46.098139	-1787.38	357.12
6	GUIDE	472654568	9.44	725	0.028	-0.025	0.088	0.147	332.194449	45.063576	1984.43	1709.52
7	GUIDE	472655152	9.43	722	0.029	-0.018	0.090	0.144	332.504239	45.862991	-689.85	401.97

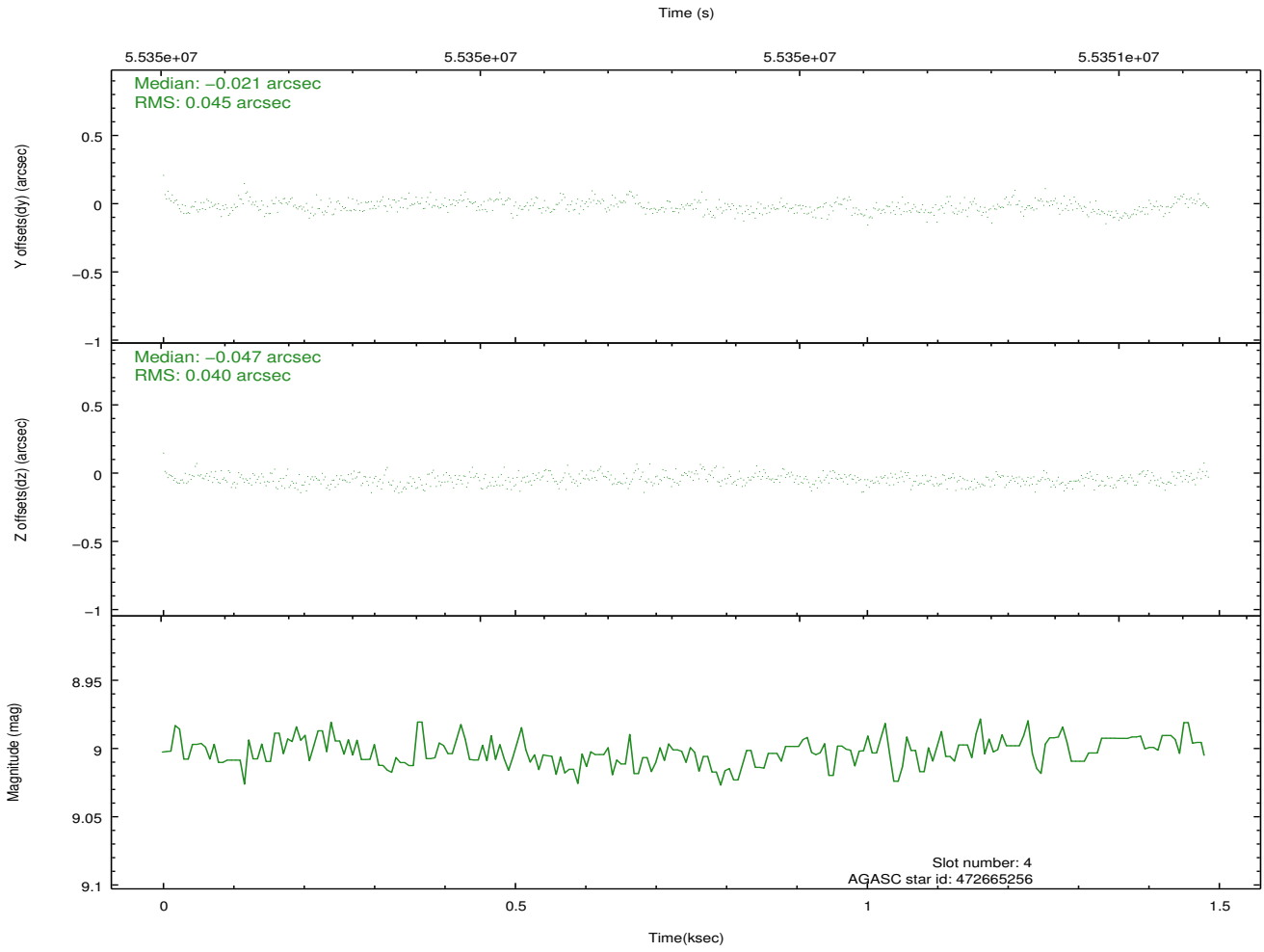
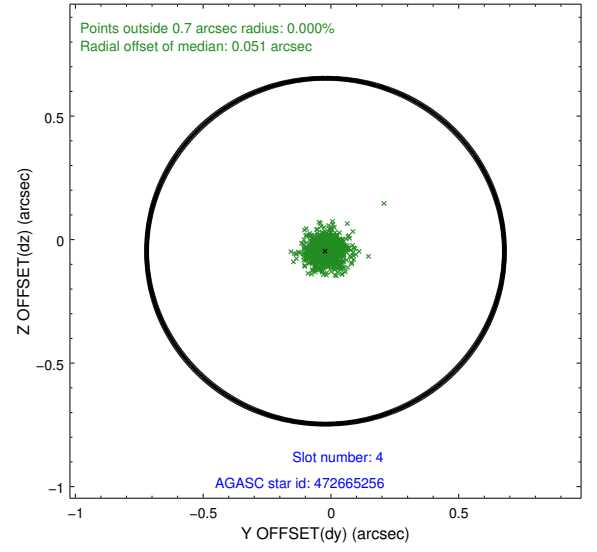
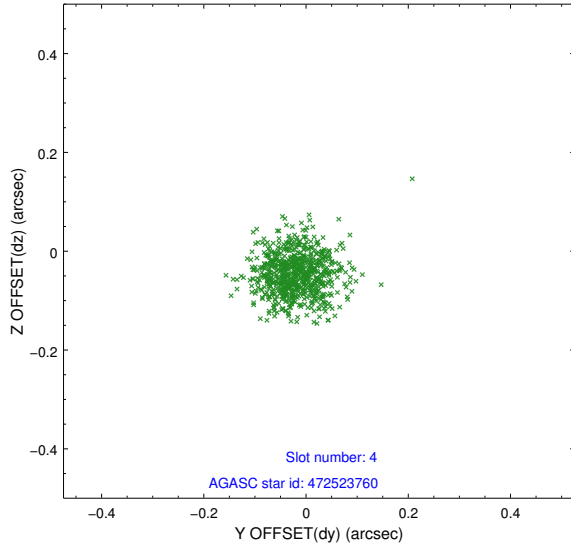


## 2.4 Star Slots

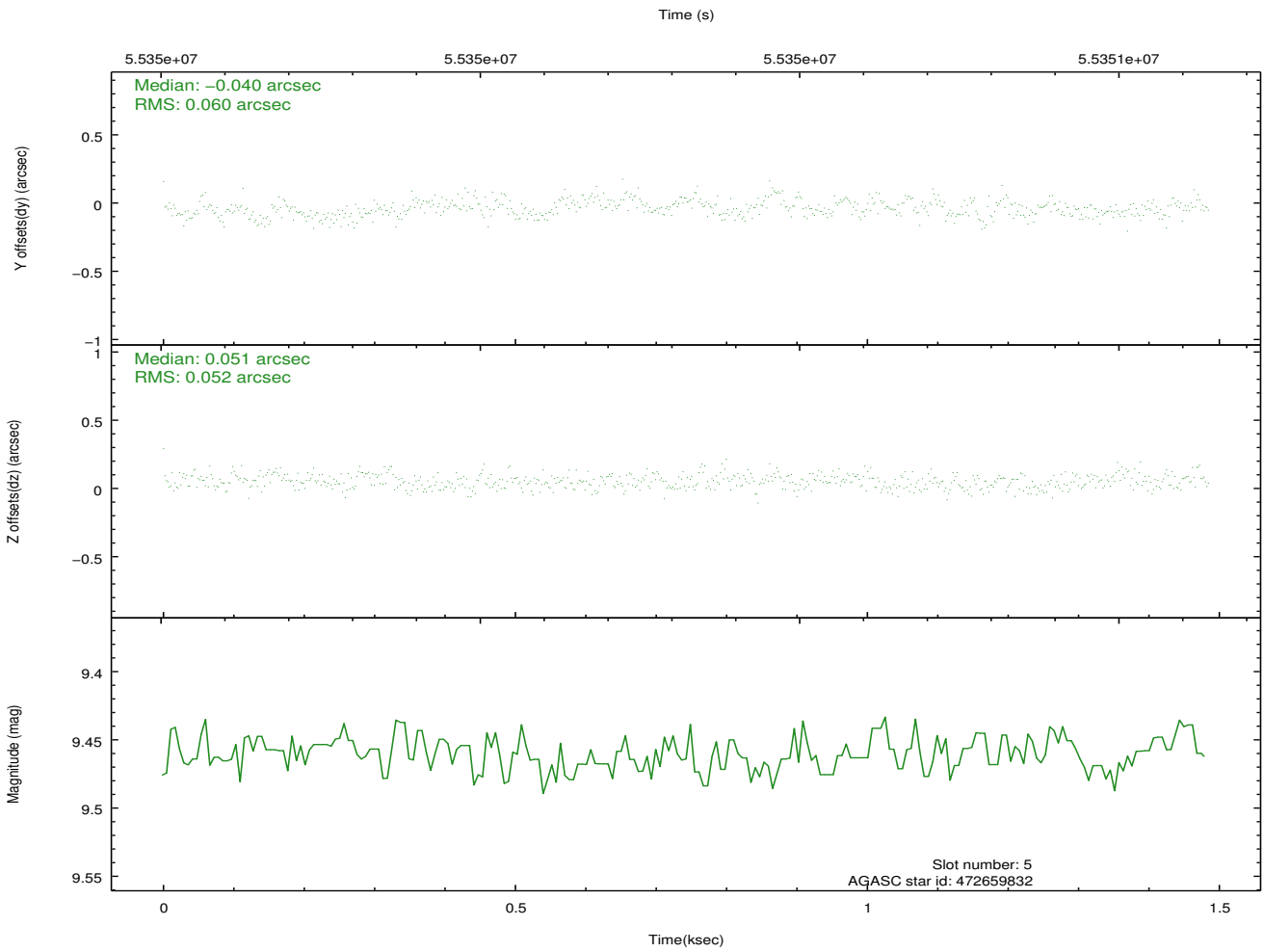
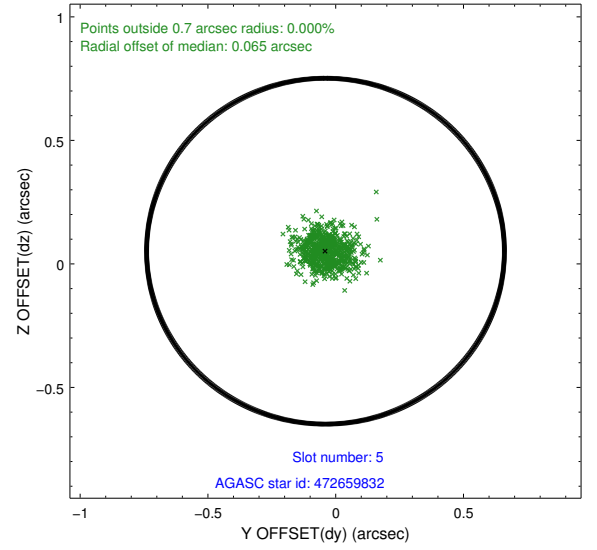
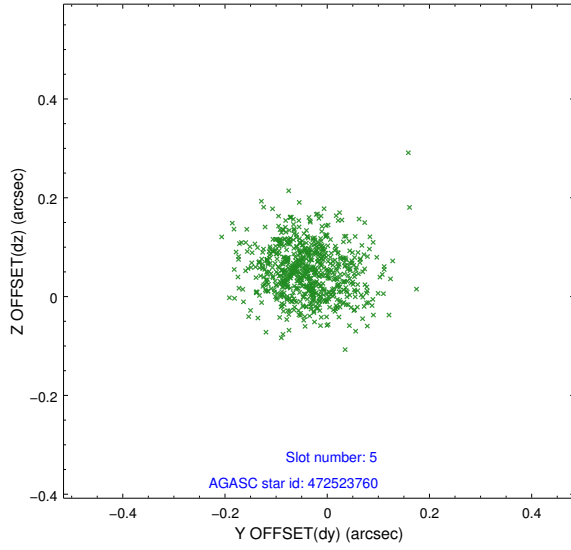
### 2.4.1 Slot 3



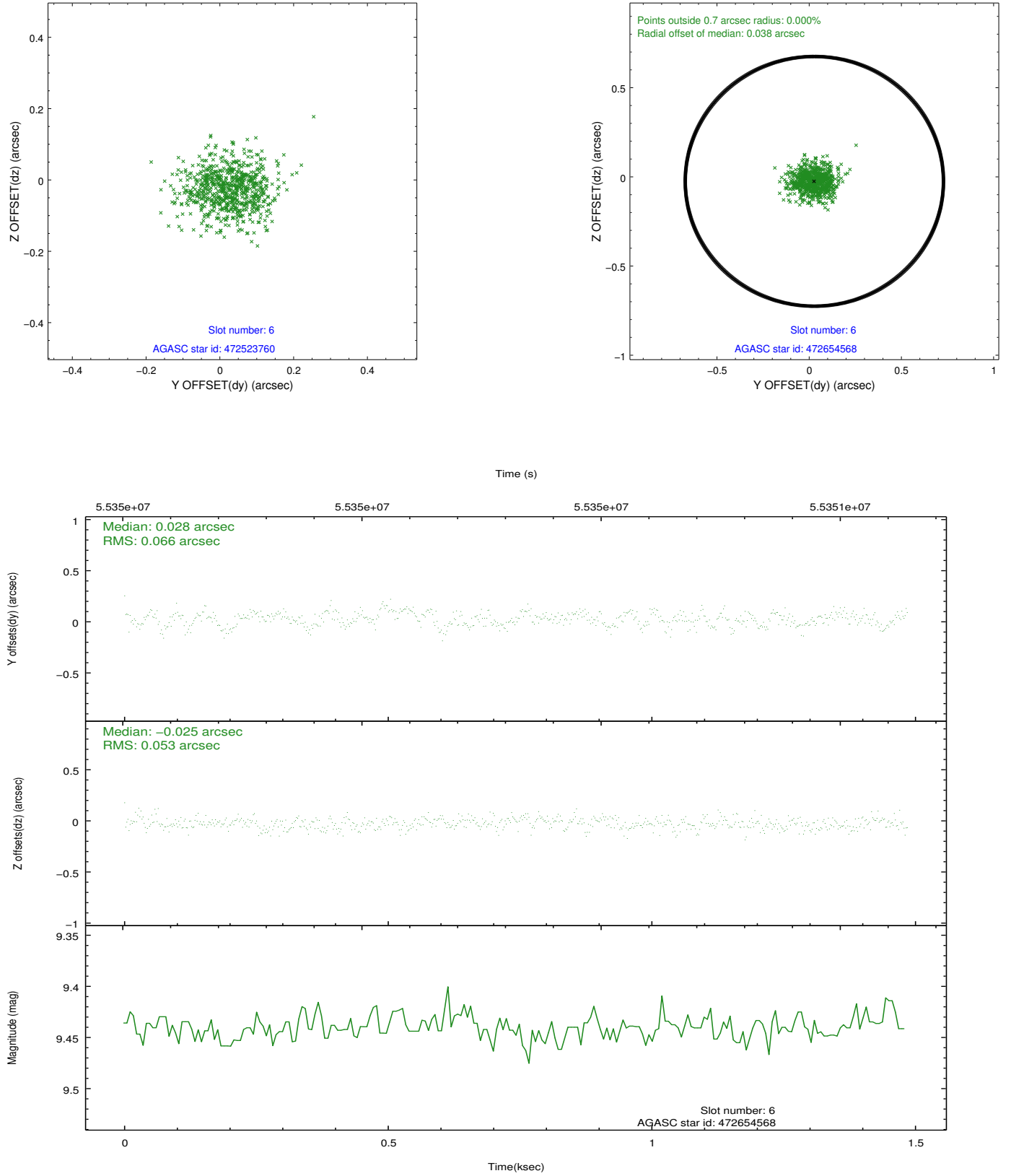
## 2.4.2 Slot 4



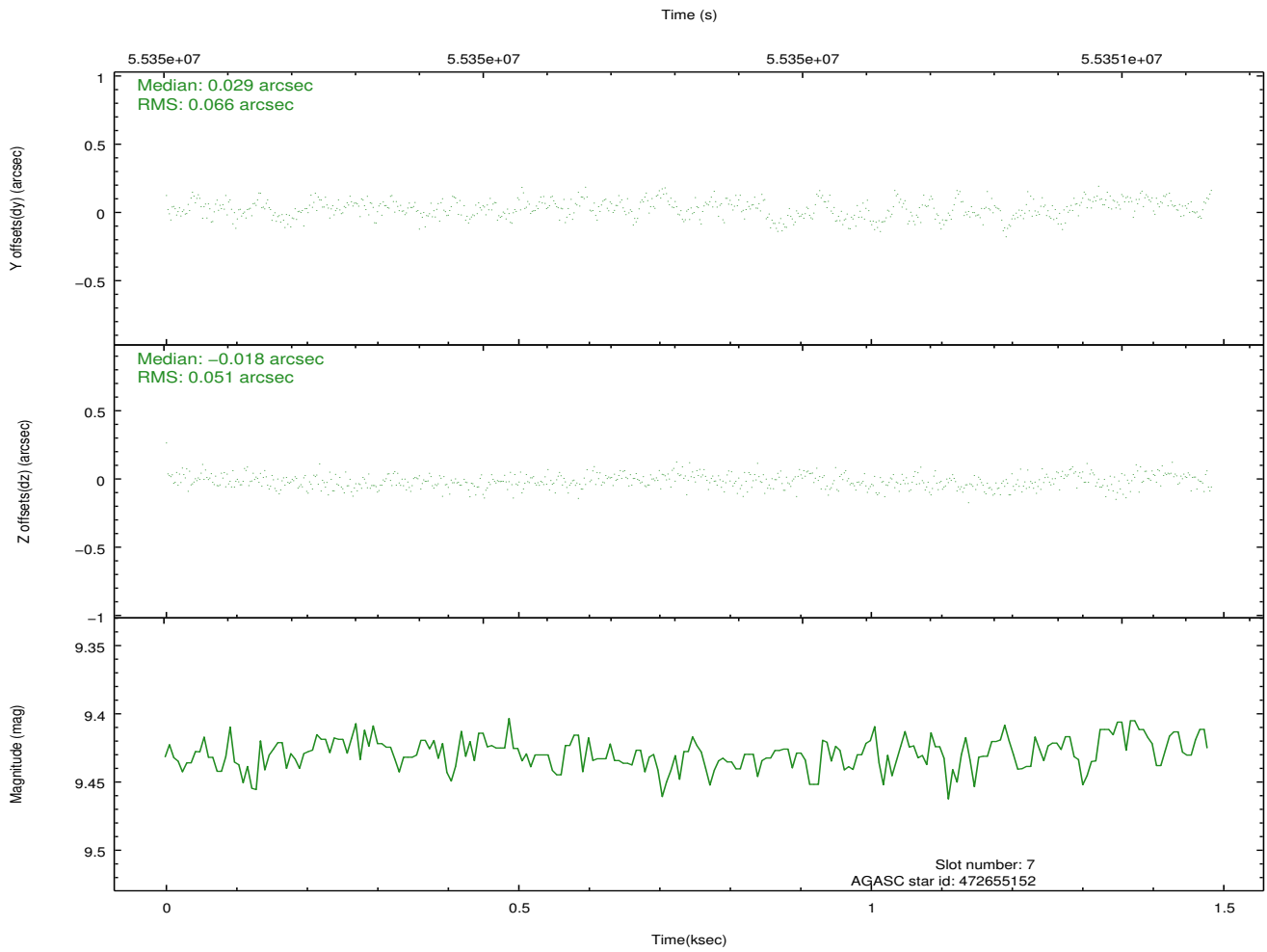
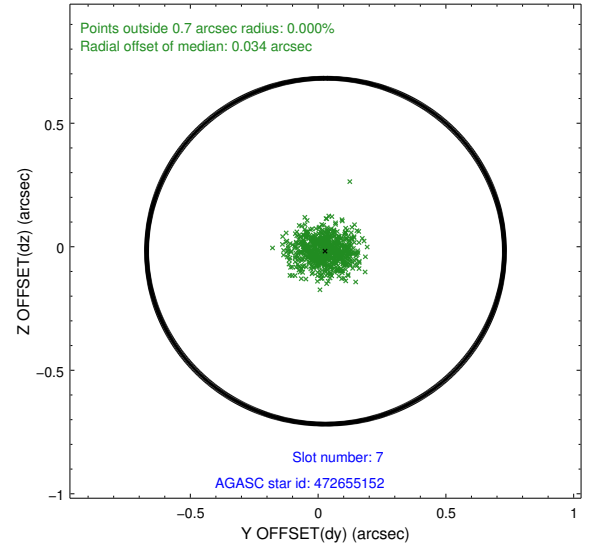
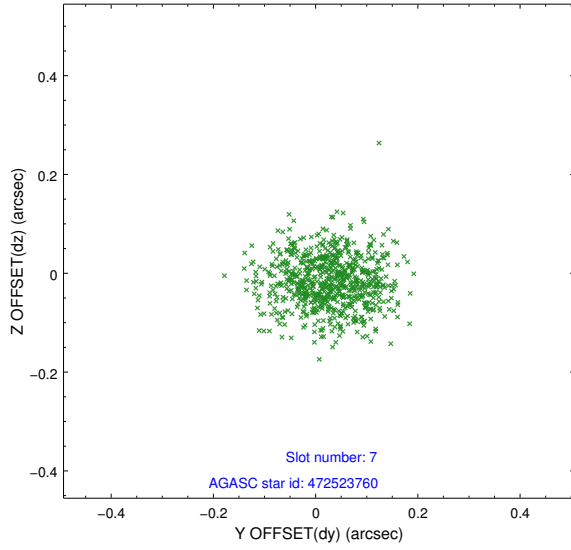
### 2.4.3 Slot 5



## 2.4.4 Slot 6

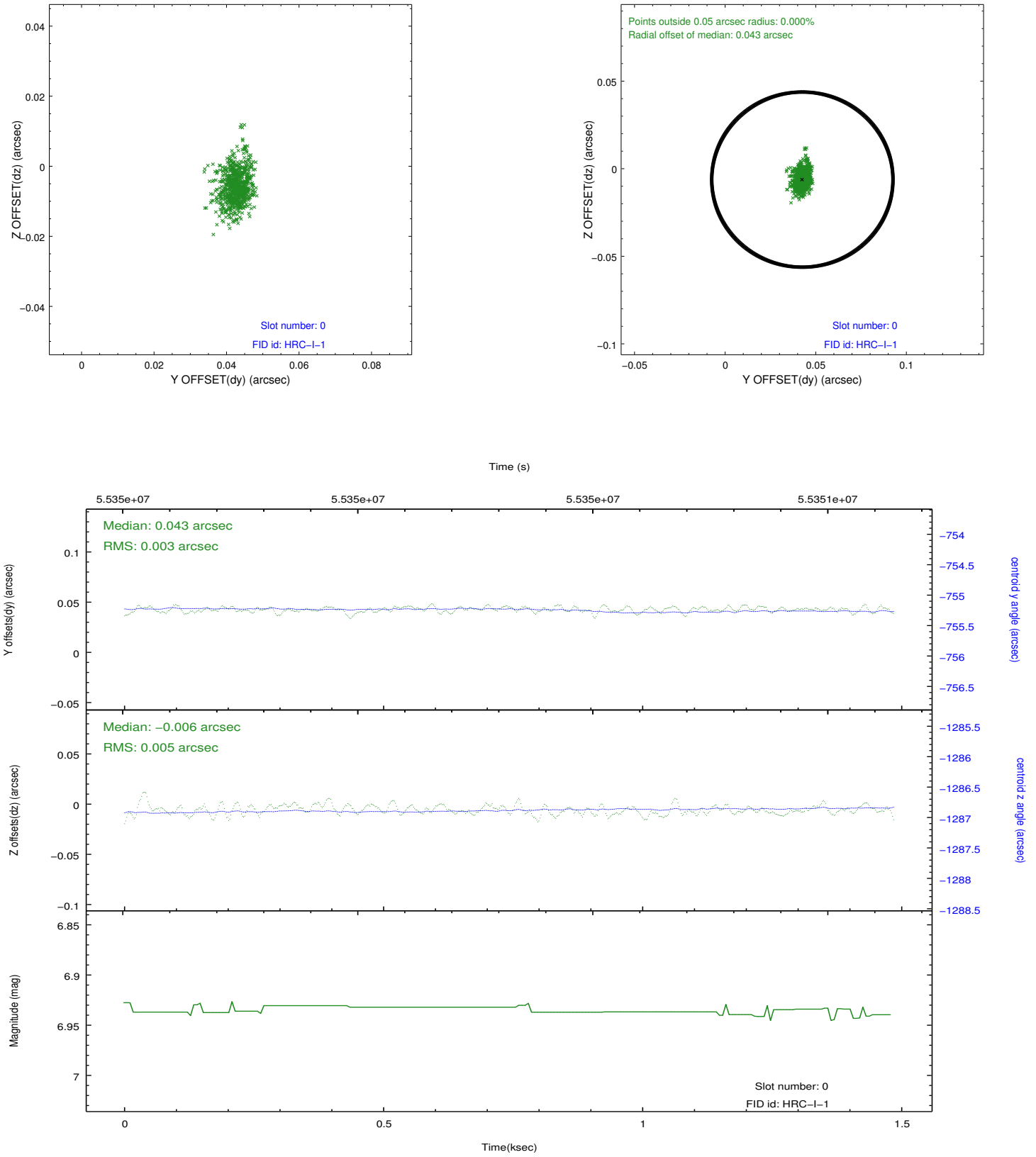


## 2.4.5 Slot 7

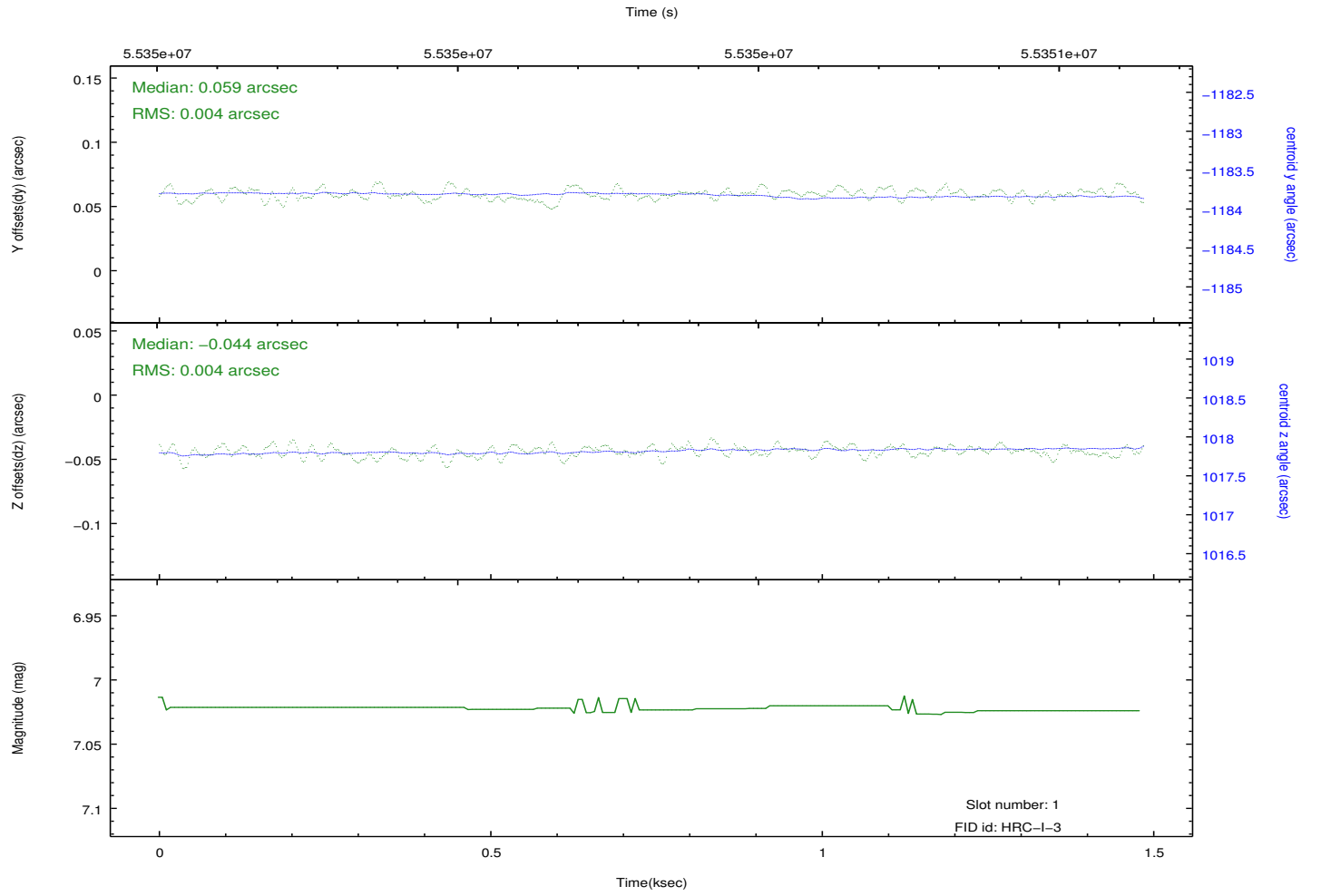
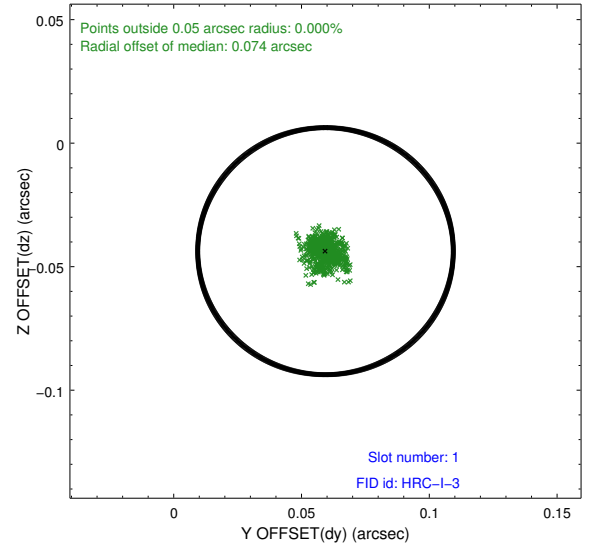
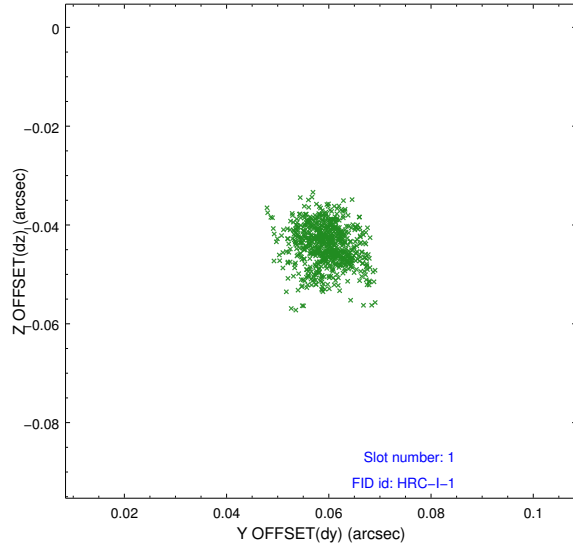


## 2.5 FID Slots

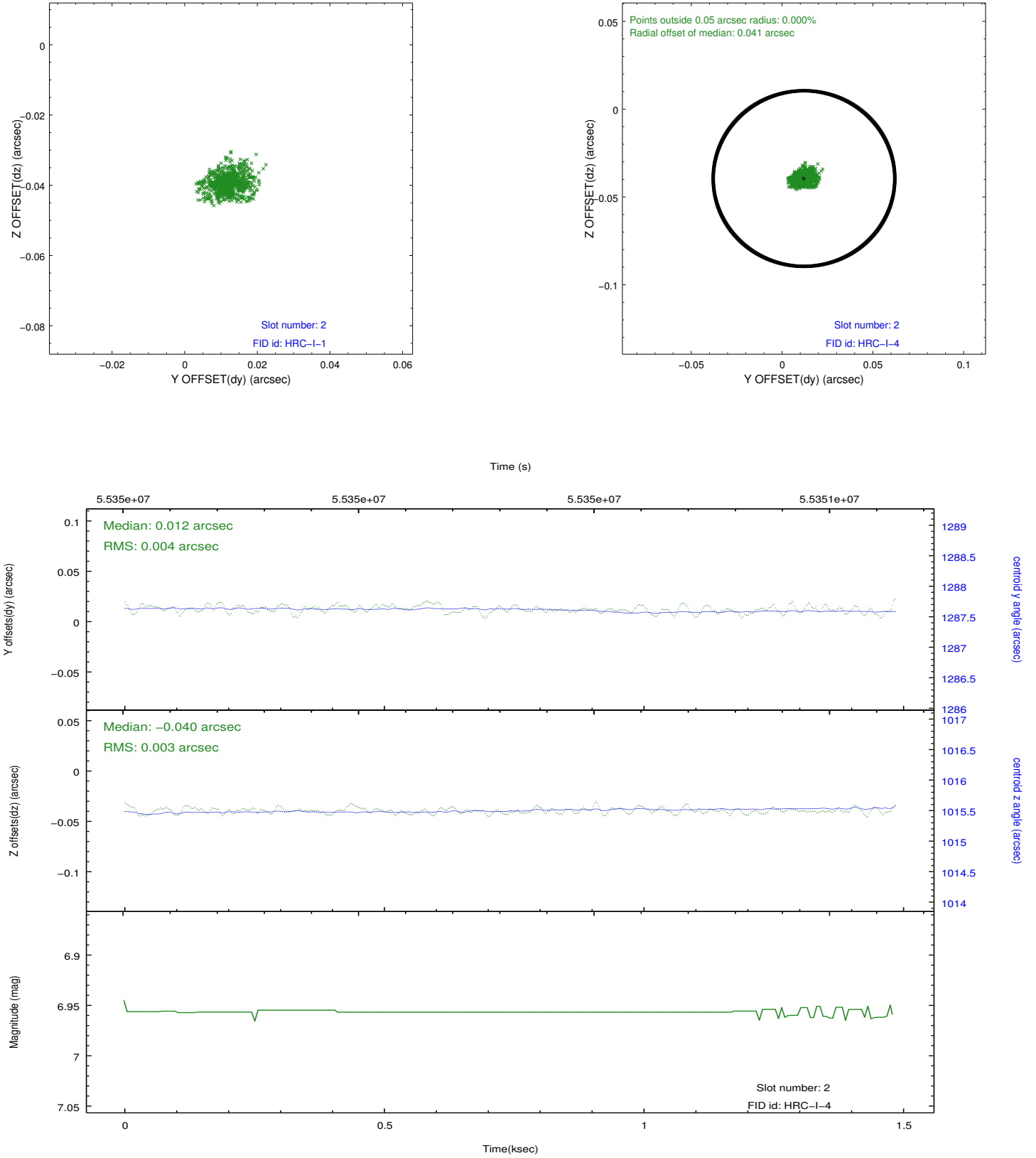
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2





### 3 Point Sources

17.96 arcmin



# A Summary

## A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2010.09.29
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.277

## A.2 Comments

AR Lac observations to study HRC-I spatial gain dependence on HV.  
Source is off-axis.