

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 2640 - L2 Version 3  
Chandra X-Ray Center

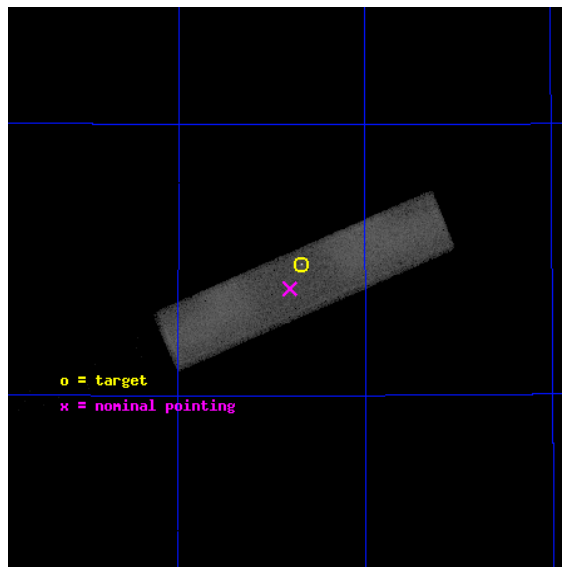
L2 Processing Date : Oct 1 2012

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# 1 Front

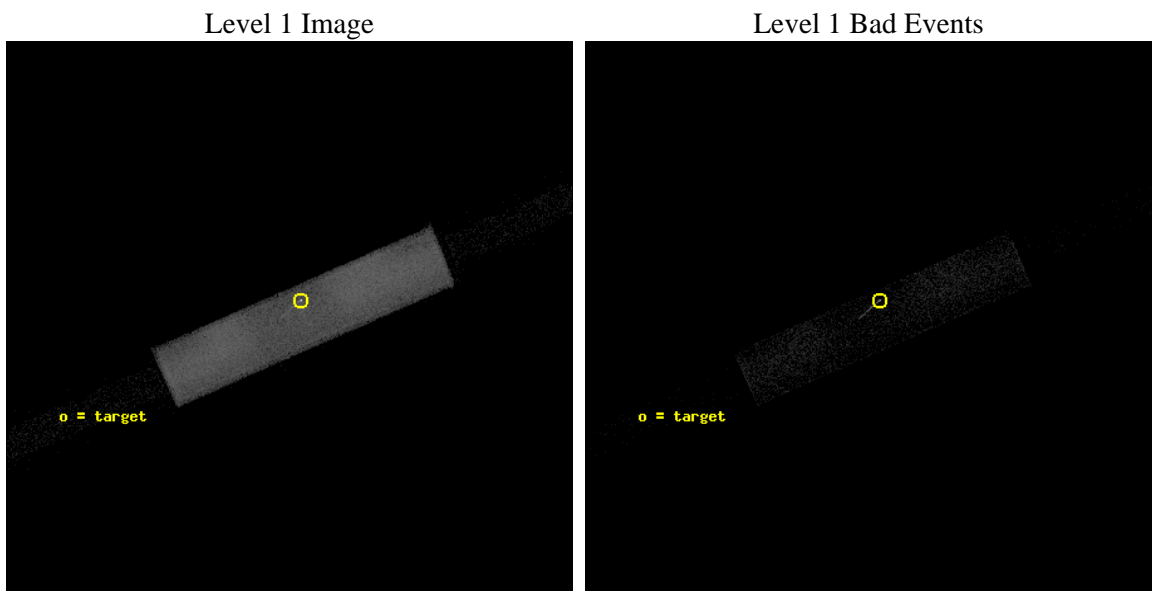
seq_num	290196	Sequence number
obs_id	2640	Observation id
title	AO3A HRC-S CALIBRATION OBSERVATION: MINI-SCAN OF ARLAC	Proposal ti
observer	Dr. CXC Calibration	Principal investigator
object	ARLAC	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.20121863054	Nominal RA [deg]
dec_nom	45.697337549	Nominal Dec [deg]
roll_nom	336.38879511796	Nominal Roll [deg]
revision	3	Processing version of data
ontime	1151.3312963992	[s]
livetime	1136.0479806781	Ontime multiplied by DTCOR
l2events	112354	Number of level 2 events



## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



### 2.1.2 Parameters

obi_num	1	Obi number	sched_exp_time	1000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	1151.3312963992	[s]
caldsver	4.5.2	&#160	l1events	150318	Number of level 1 events
date	2012-10-01T03:03:55	Date and time of file creation			
revision	3	Processing version of data			

### 2.1.3 Events

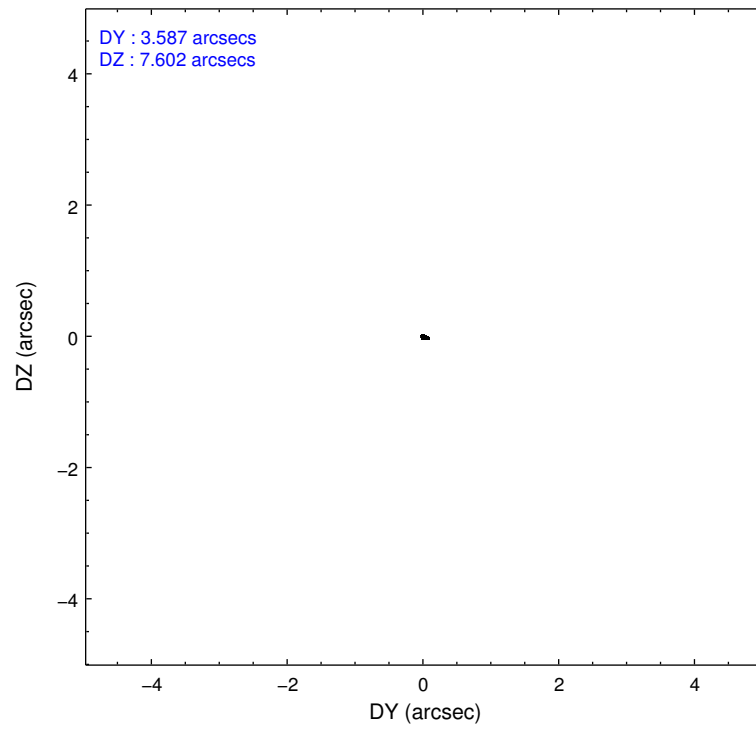
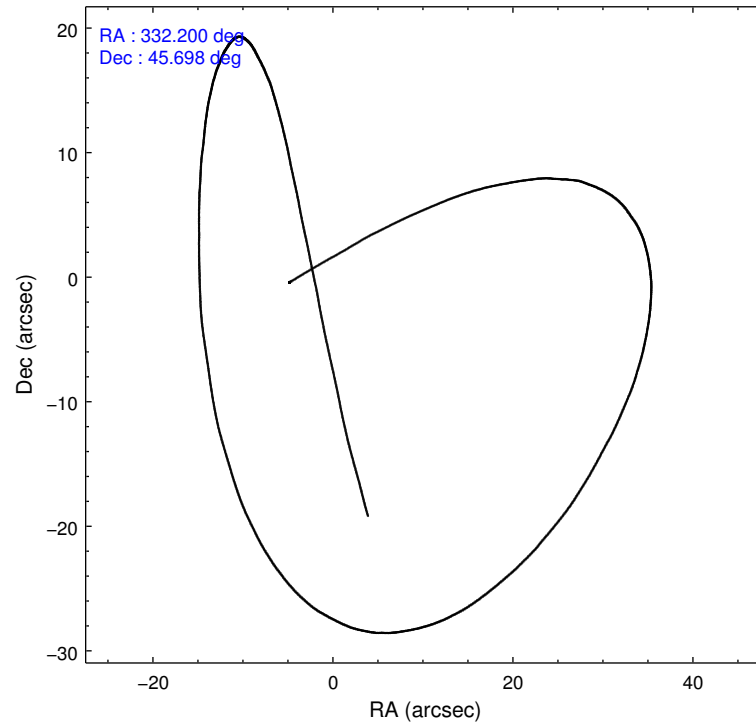
Level 1 Events

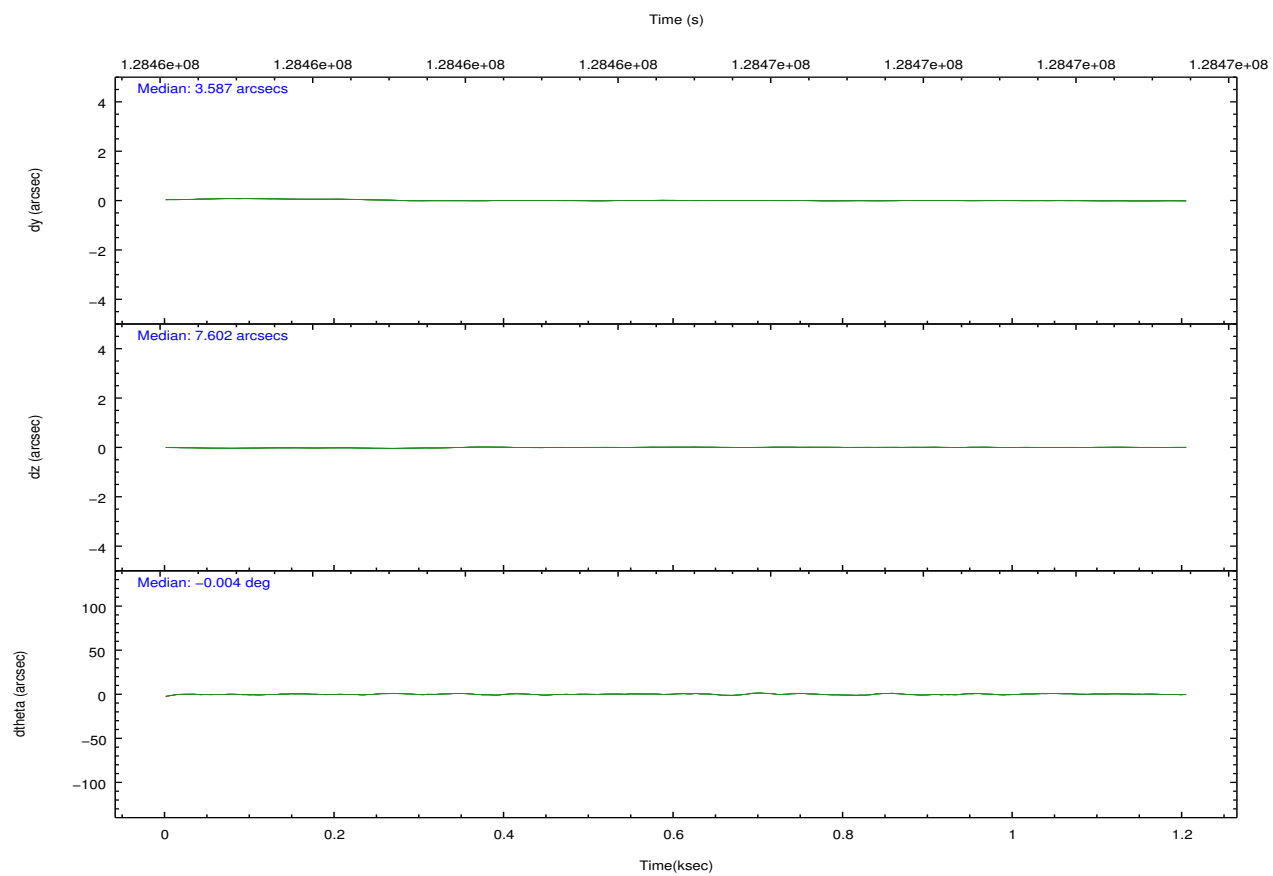
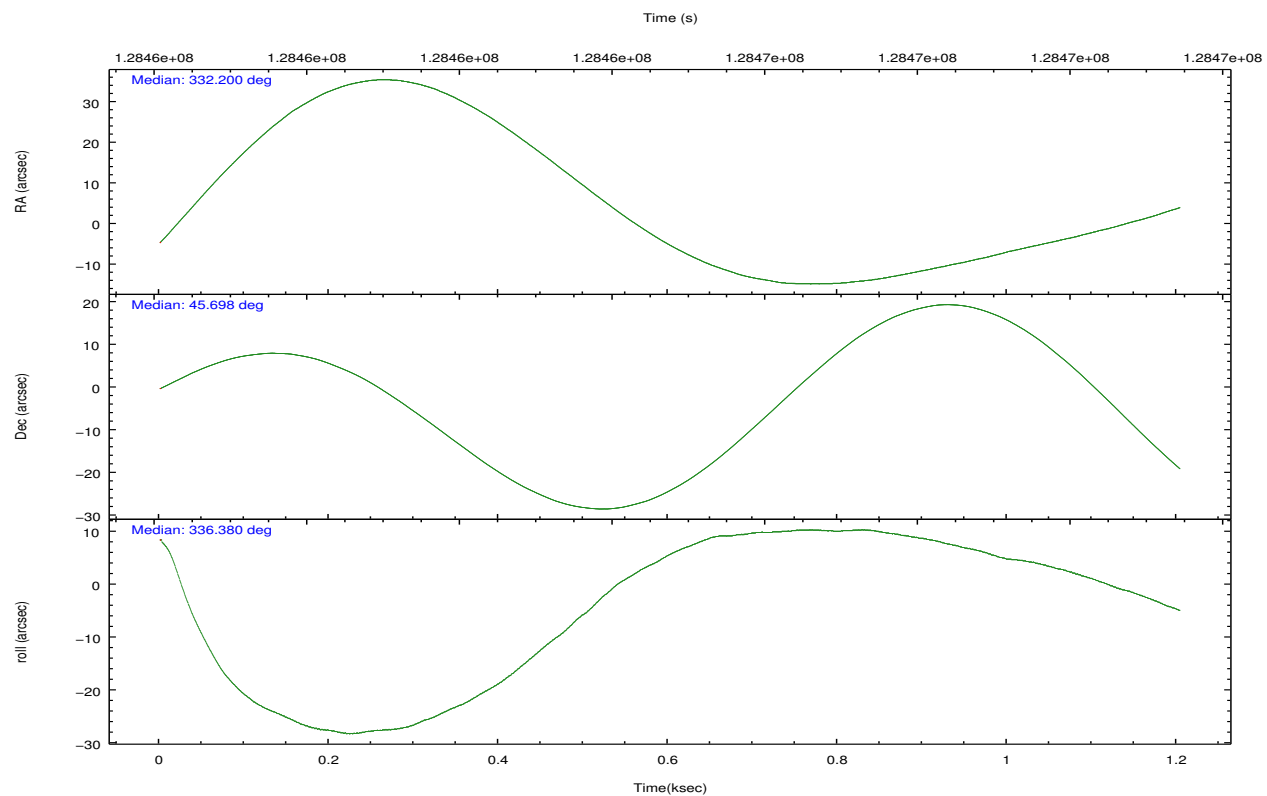
	segment 1	segment 2	segment 3
level 1 events	1303	147691	1324
rejected events	1303	24683	1299
rejected %	100%	16%	98%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	HRC	HRC	Obspar format version number	7	7
Detector	HRC-S	HRC-S	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	OBSERVING	OBSERVING			
Observation mode	POINTING	POINTING			
[deg] Pointing RA	332.160220	332.2012186305432			
[deg] Pointing Dec	45.691804	45.6973375490001			
[deg] Pointing Roll	336.350687	336.3887951179587			
[mm] SIM focus pos	-1.429586	-1.428180813131781			
[mm] SIM defocus	0.1037507710433287	0.1051558262725154			
[mm] SIM translation stage pos	250.455976	250.466033080201			
[mm] SIM translation stage offset	0	-0.01005468664627074			
[s] Observation start time (MET)	128464677.184000	128464301.12671			
Observation start date	2002-01-26T20:36:53	2002-01-26T20:31:41			
[s] Observation end time (MET)	128465677.184000	128465810.95177			
Observation end date	2002-01-26T20:53:33	2002-01-26T20:56:50			

## 2.3 Aspect





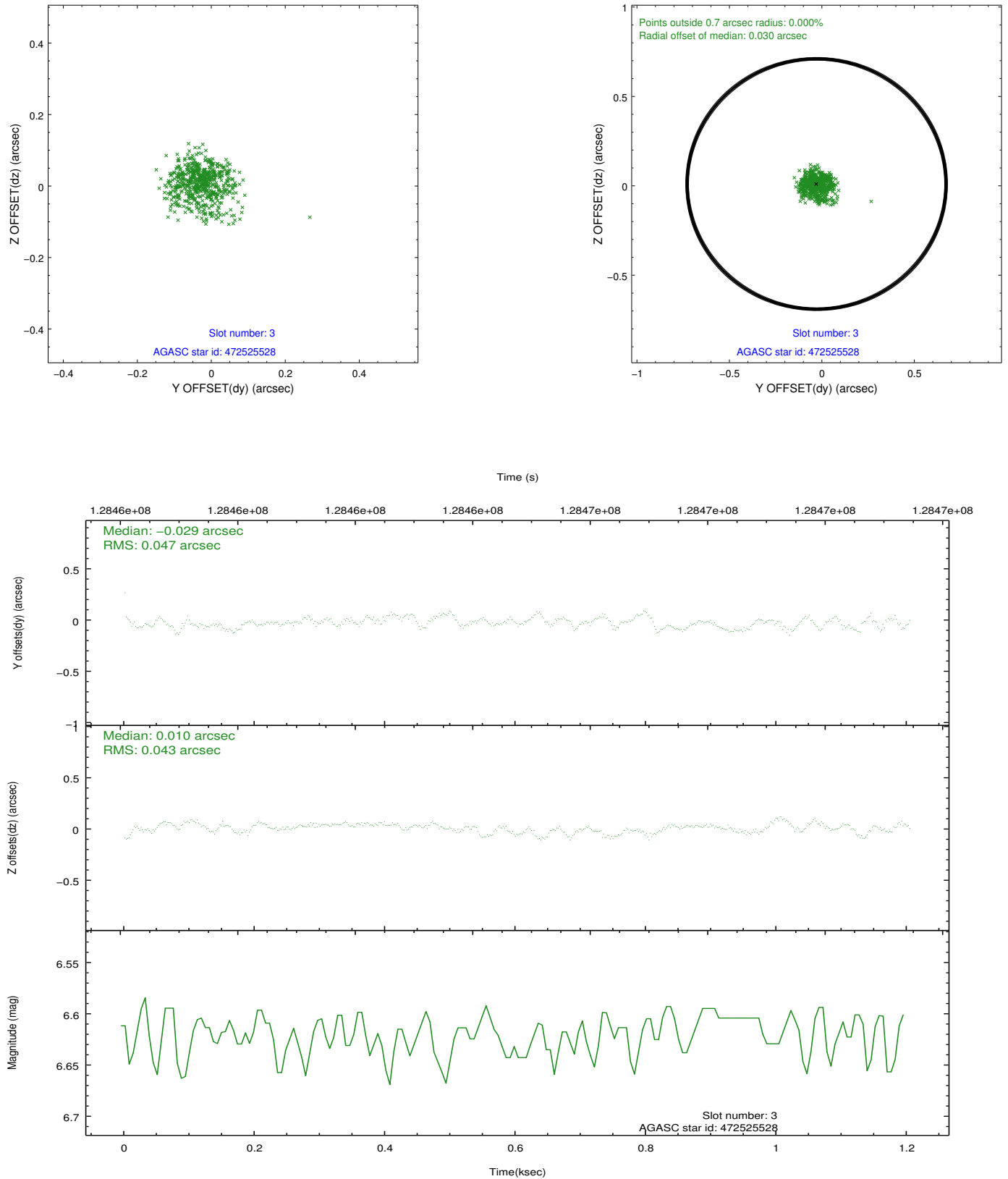
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-S-1	6.98	294	0.151	-0.081	0.006	0.011	0.000000	0.000000	-1157.63	-456.14
1	FID	HRC-S-2	6.99	294	0.079	-0.088	0.004	0.007	0.000000	0.000000	1238.04	-450.31
2	FID	HRC-S-3	7.00	294	0.160	-0.133	0.007	0.010	0.000000	0.000000	-1156.14	571.81
3	GUIDE	472525528	6.62	588	-0.029	0.010	0.068	0.108	331.551102	45.248694	-776.57	-2079.57
4	GUIDE	472523760	8.23	588	-0.045	-0.092	0.067	0.102	331.645363	45.403260	-778.44	-1477.80
5	GUIDE	472665256	9.01	588	-0.070	-0.023	0.091	0.146	332.808125	46.195041	747.58	2306.47
6	GUIDE	472659832	9.47	588	0.117	0.077	0.108	0.179	332.780399	46.098139	829.77	1966.36
7	GUIDE	472654568	9.43	587	0.015	0.037	0.083	0.134	332.194449	45.063576	988.51	-2037.53

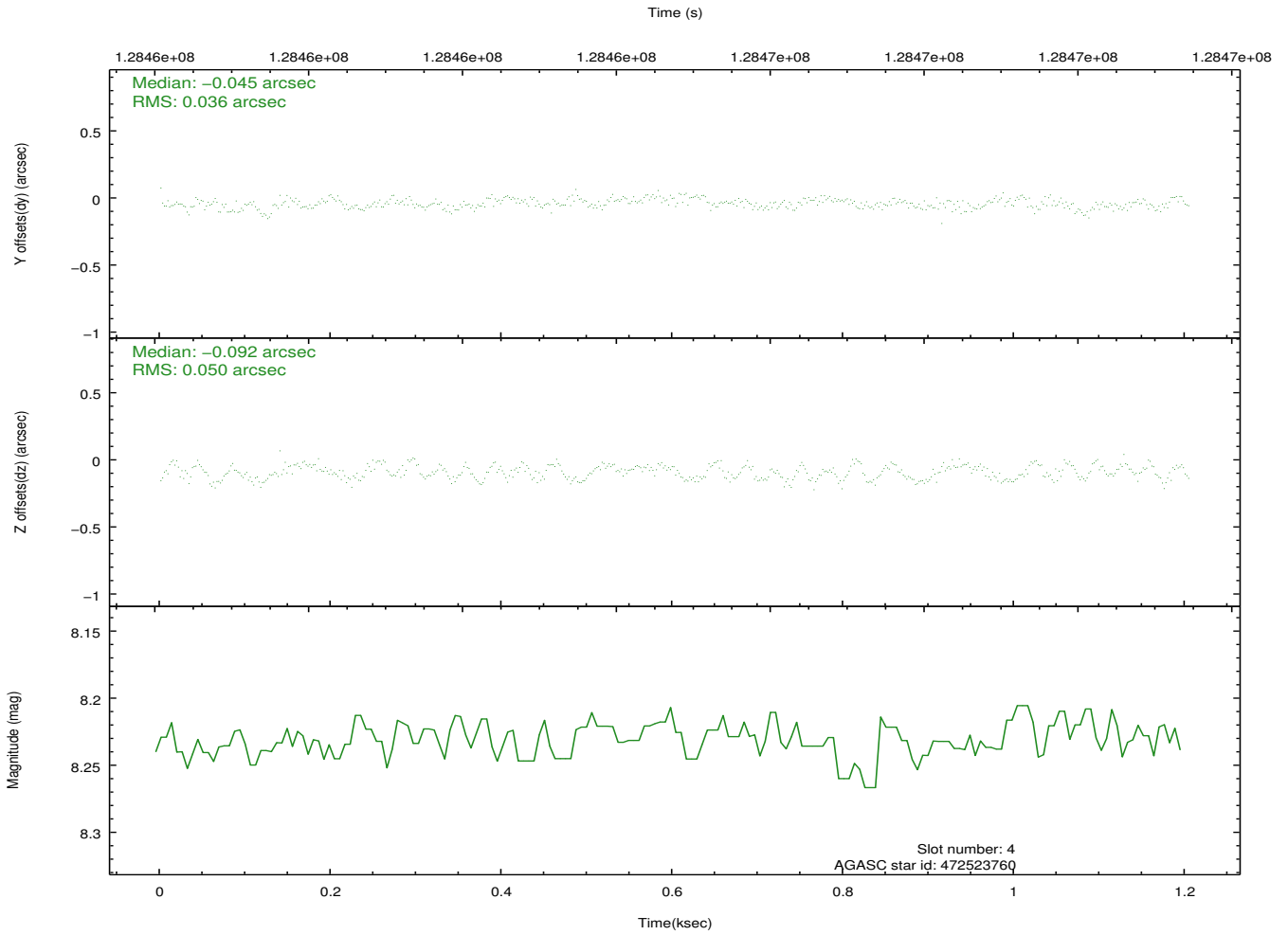
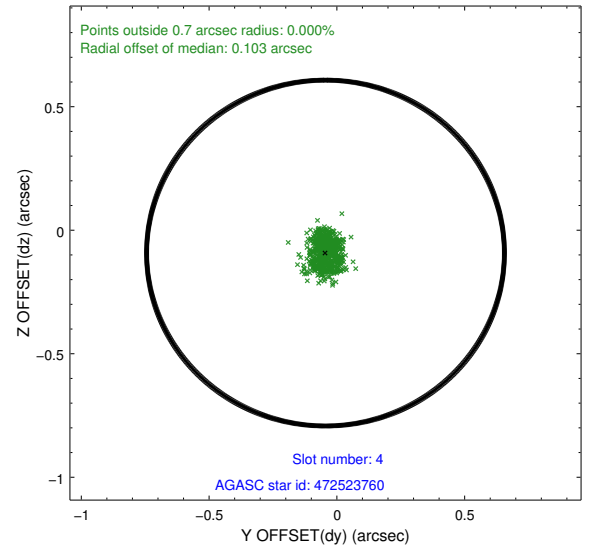
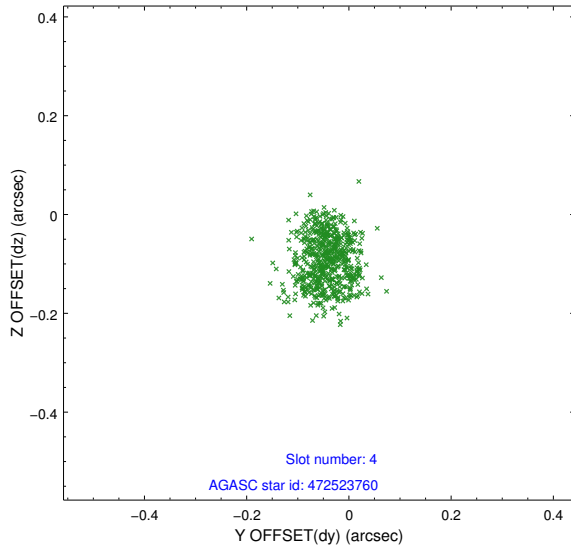


## 2.4 Star Slots

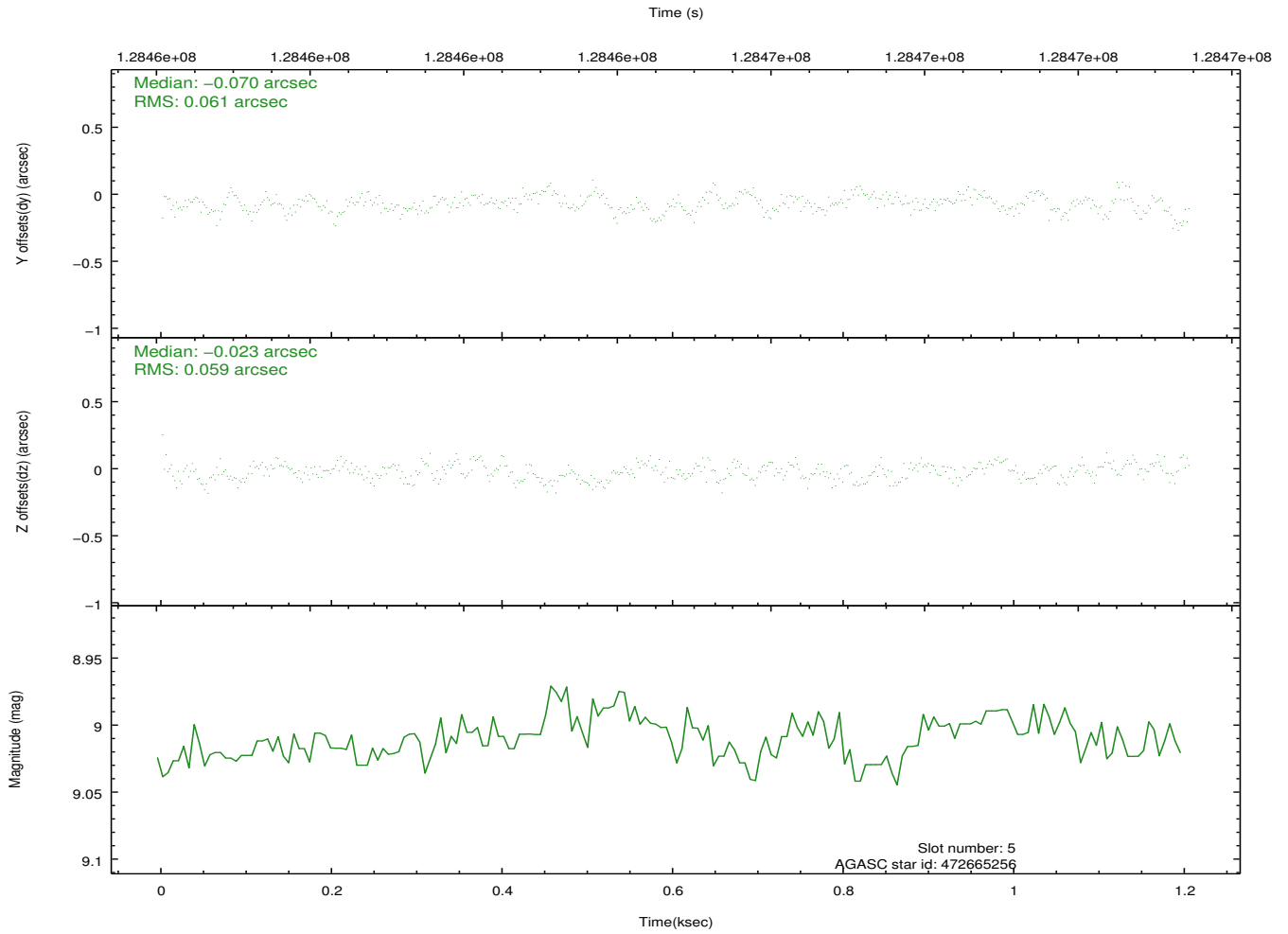
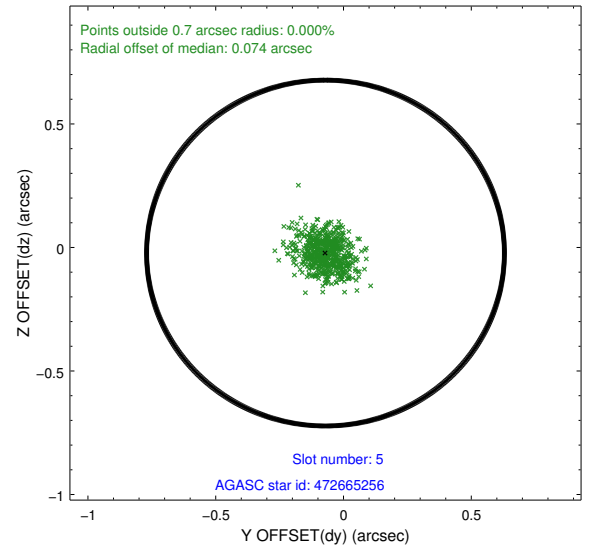
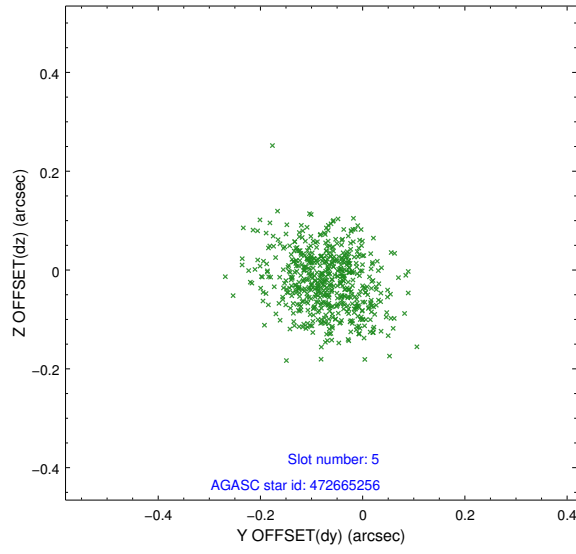
### 2.4.1 Slot 3



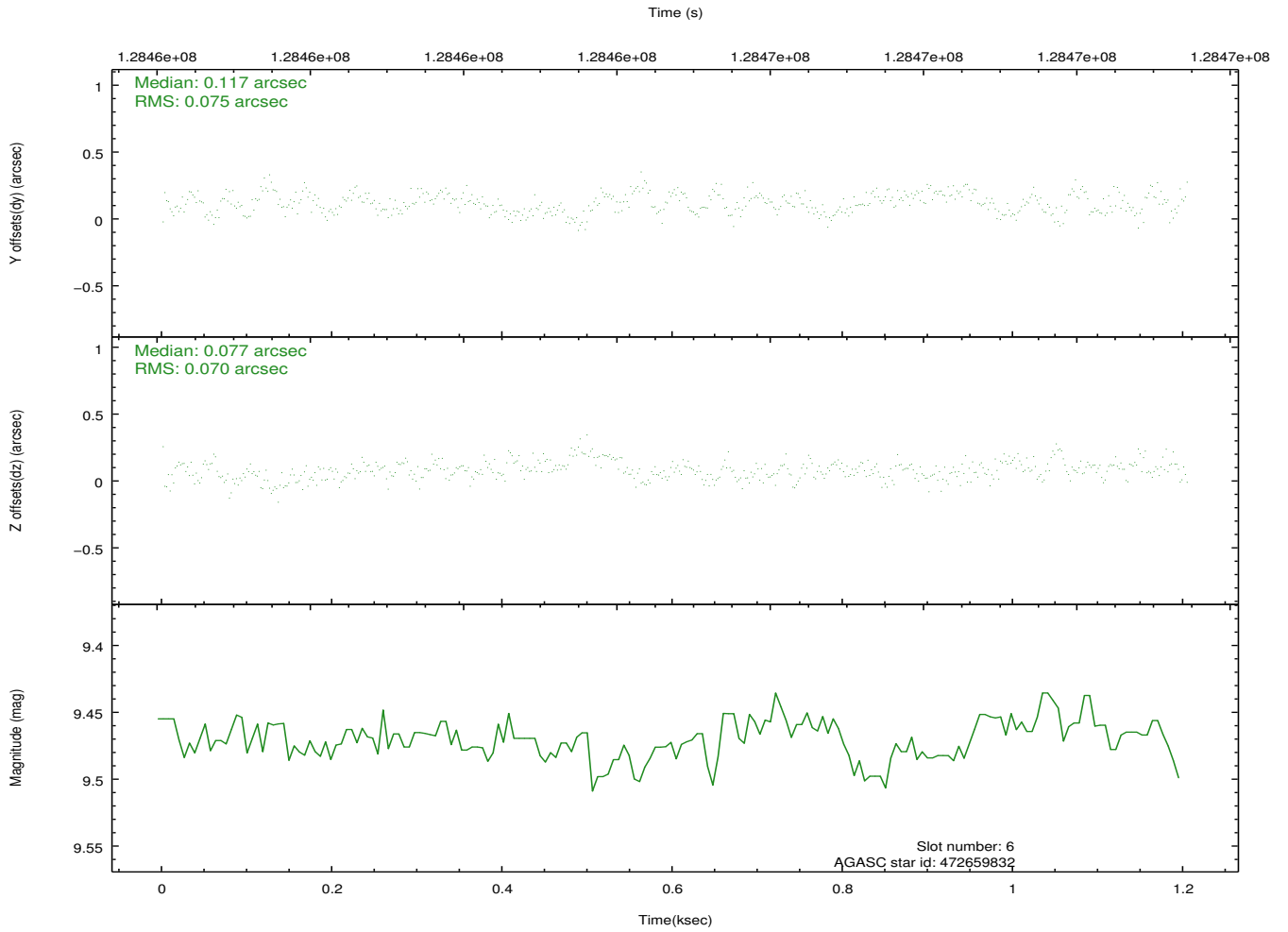
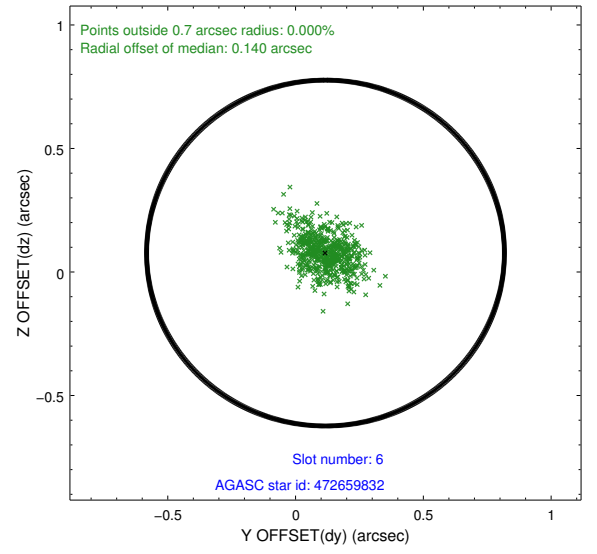
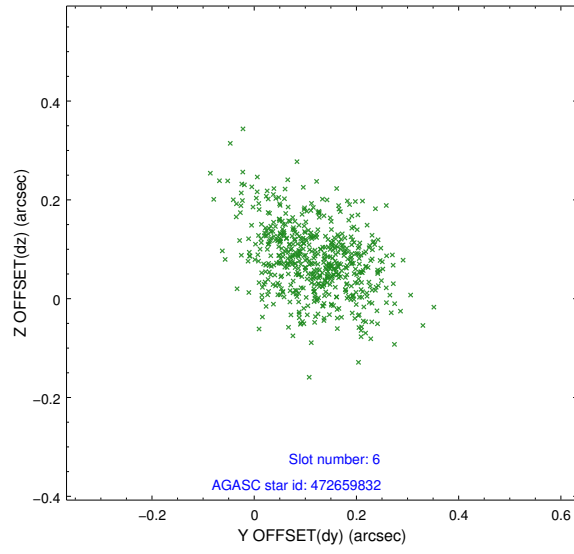
## 2.4.2 Slot 4



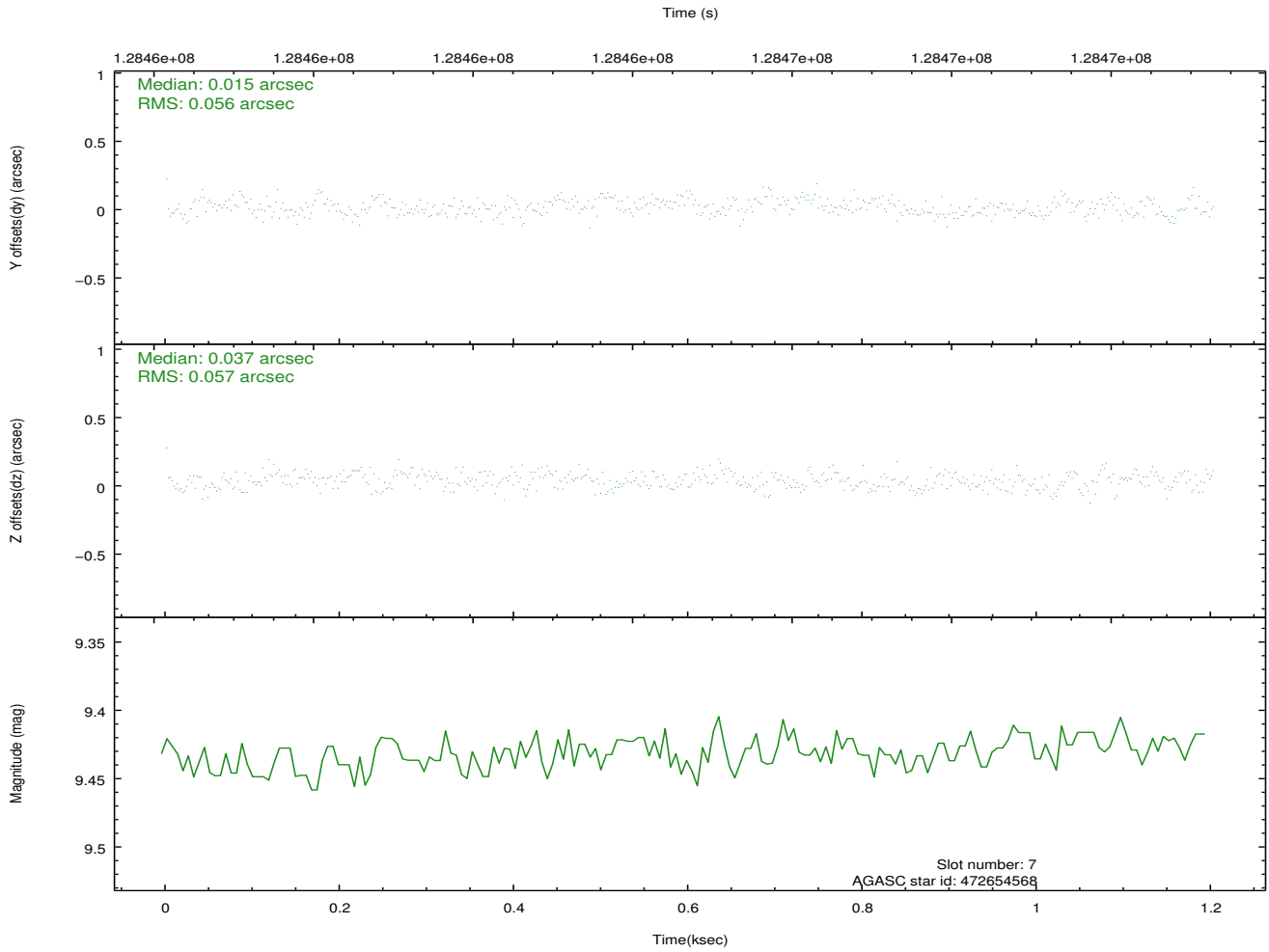
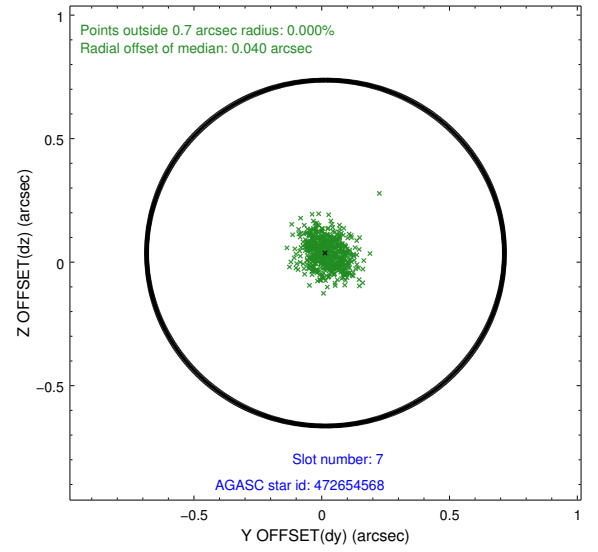
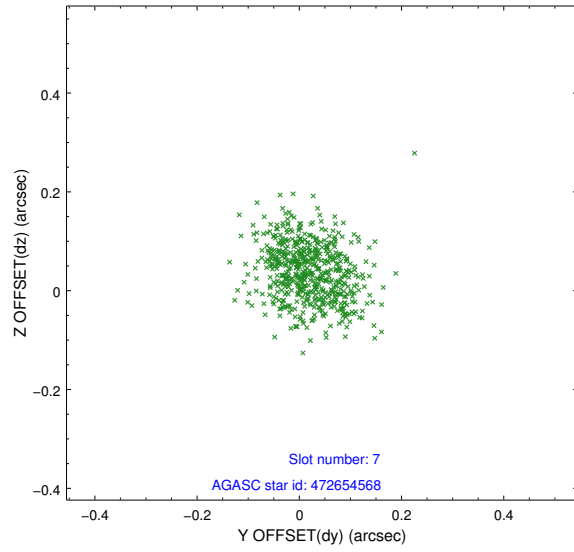
### 2.4.3 Slot 5



## 2.4.4 Slot 6

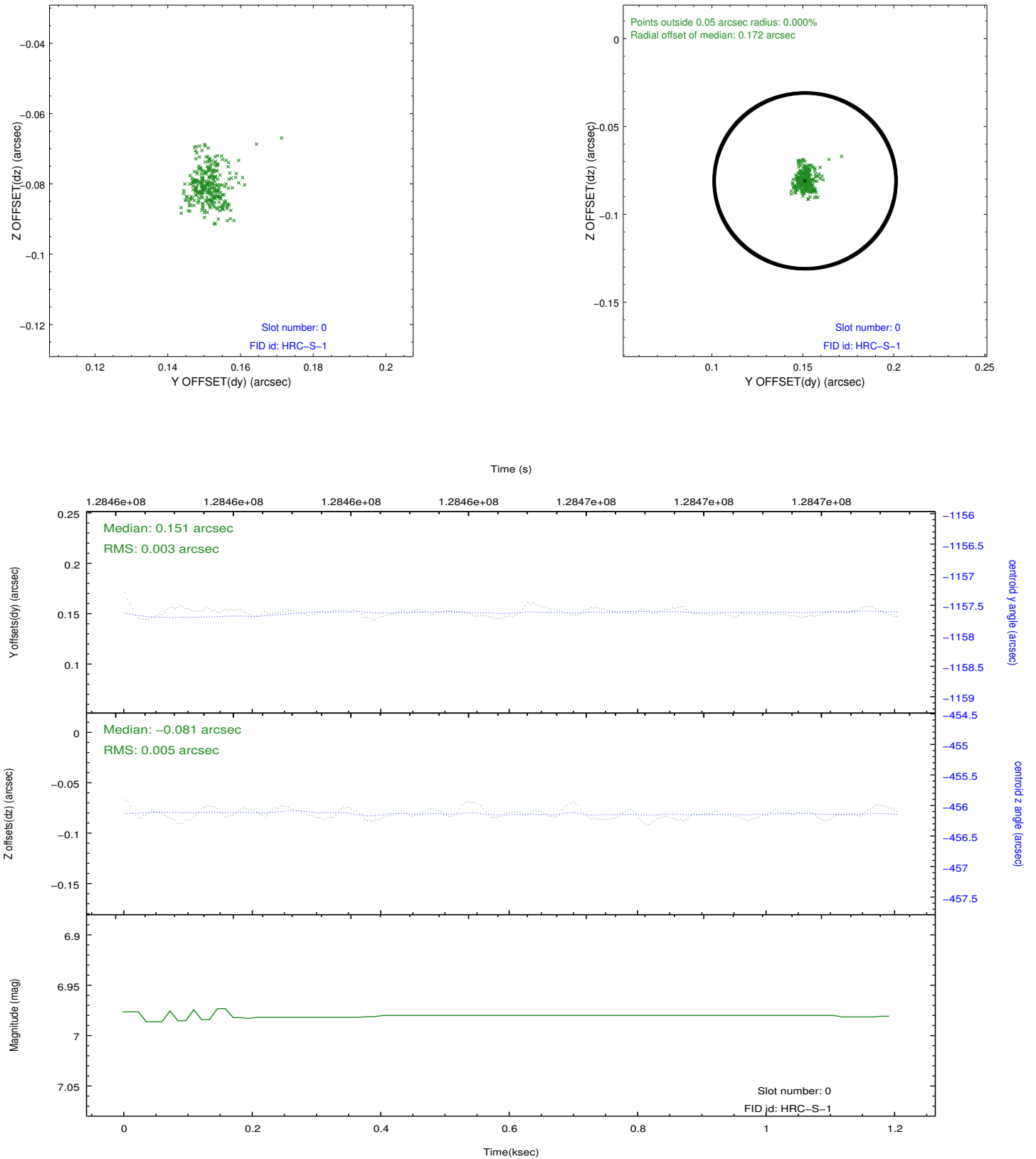


## 2.4.5 Slot 7

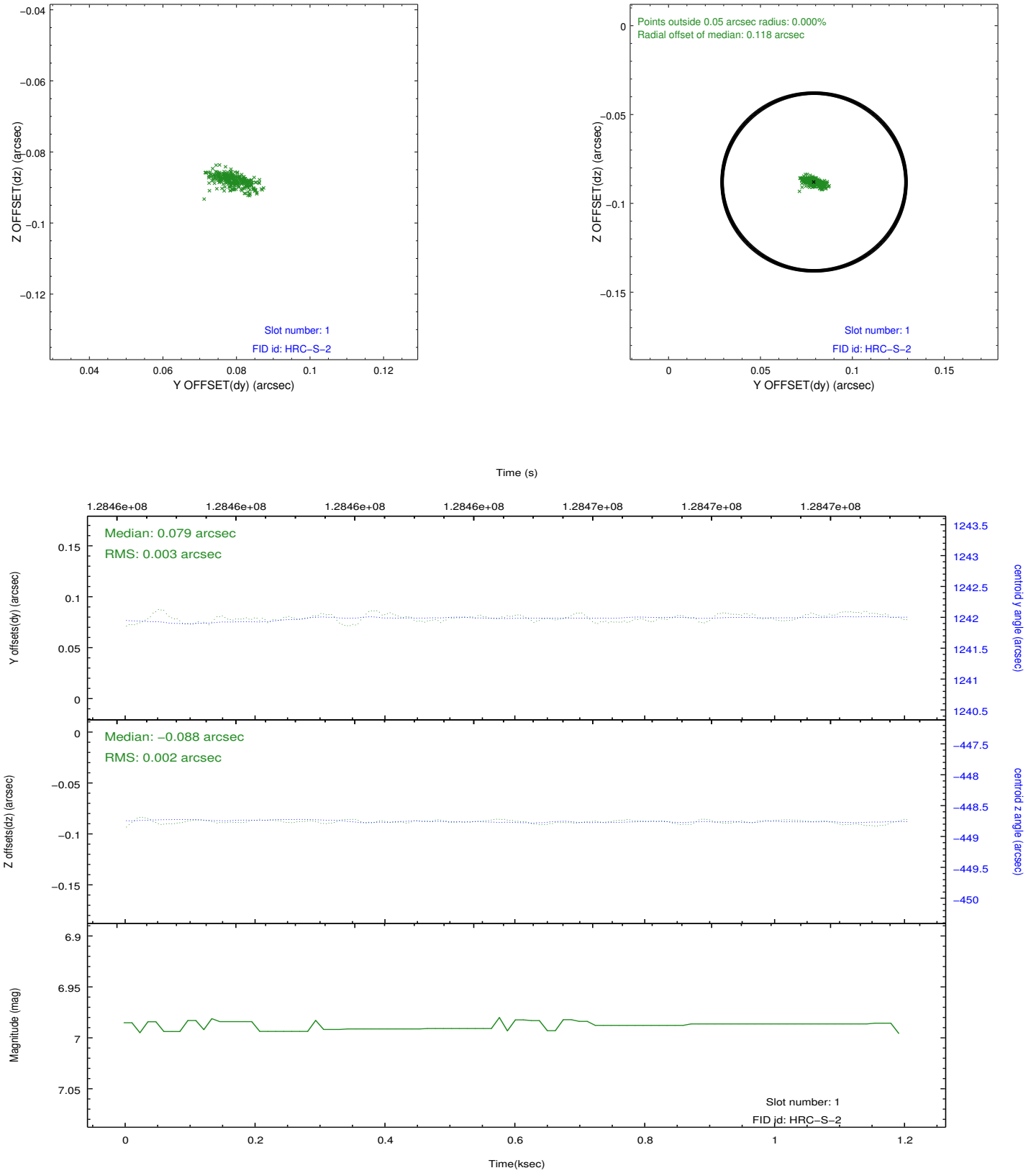


## 2.5 FID Slots

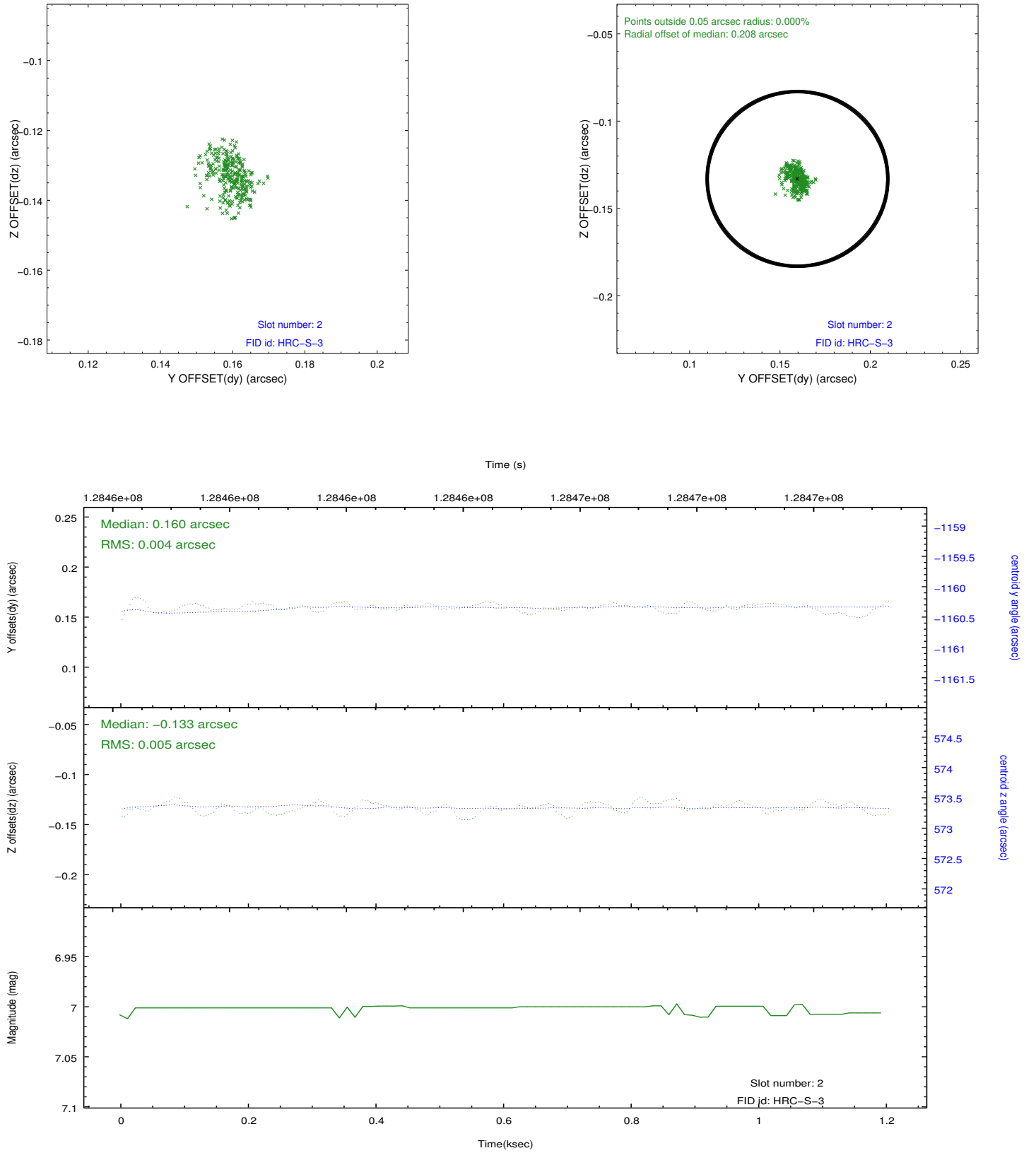
### 2.5.1 Slot 0



## 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)	2012.10.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.196

### A.2 Comments

Charge time for this ObsId remains at previous value of 1.196 ks although with the current processing the charge time would have been 1.15 ksec.