

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 990 - L2 Version 5  
Chandra X-Ray Center

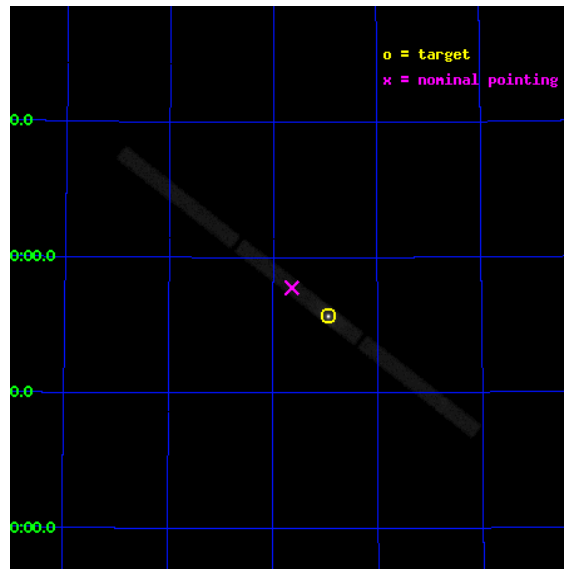
L2 Processing Date : Sep 7 2012

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# 1 Front

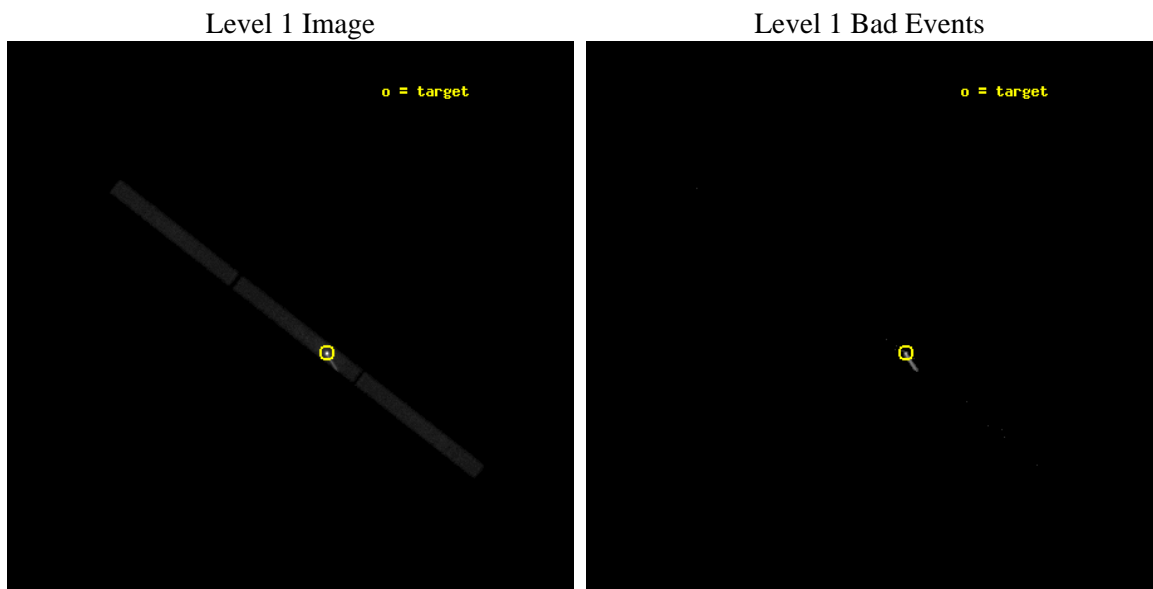
seq_num	290071	Sequence number
obs_id	990	Observation id
title	CALIBRATION OBSERVATIONS OF VEGA TO MONITOR THE TRANSMISSION OF THE OPTICAL/UV FILTERS ON ACIS AND HRC	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	VEGA, HRC-S, AO2	Source name
ra_targ	279.234792	Observer's specified target RA [deg]
dec_targ	38.783778	Observer's specified target Dec [deg]
ra_nom	279.40987974653	Nominal RA [deg]
dec_nom	38.888885082205	Nominal Dec [deg]
roll_nom	37.739857462097	Nominal Roll [deg]
revision	5	Processing version of data
ontime	2701.1313540339	[s]
livetime	2102.0012360366	Ontime multiplied by DTCOR
l2events	460575	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	2500.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	2701.1313540339	[s]
caldbver	4.5.1.1	&#160	l1events	552724	Number of level 1 events
date	2012-09-07T05:00:40	Date and time of file creation			
revision	4	Processing version of data			

### 2.1.3 Events

Level 1 Events

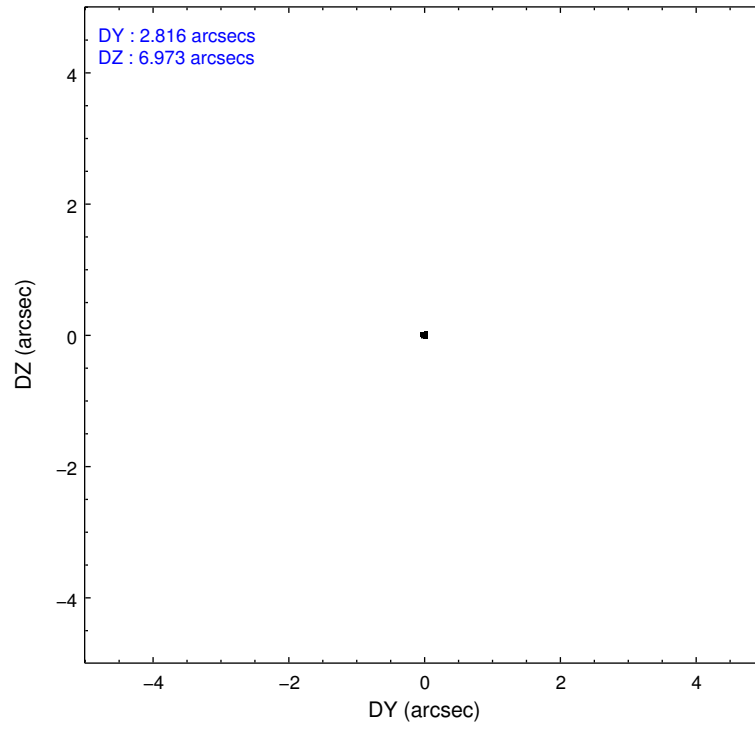
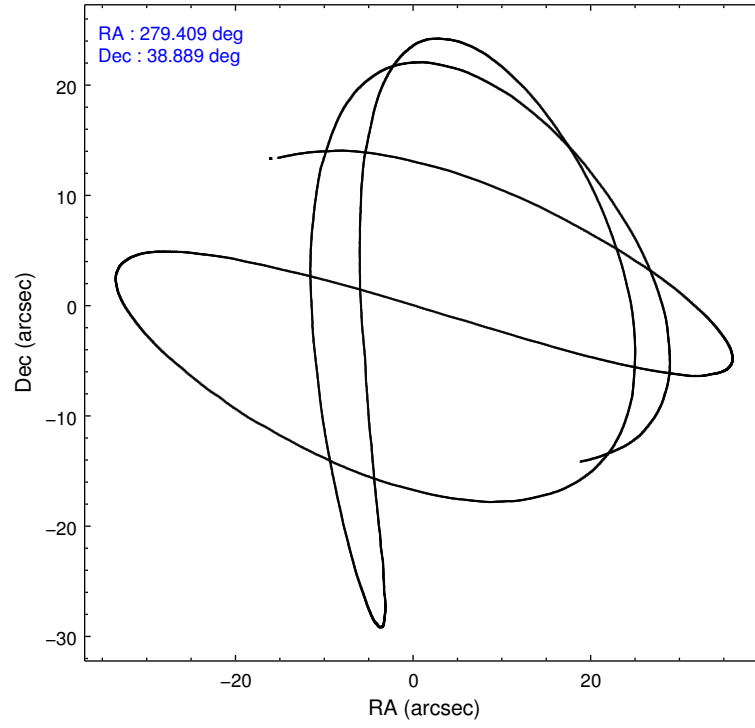
	segment 1	segment 2	segment 3
level 1 events	48406	456591	47727
rejected events	5069	44545	5053
rejected %	10%	9%	10%

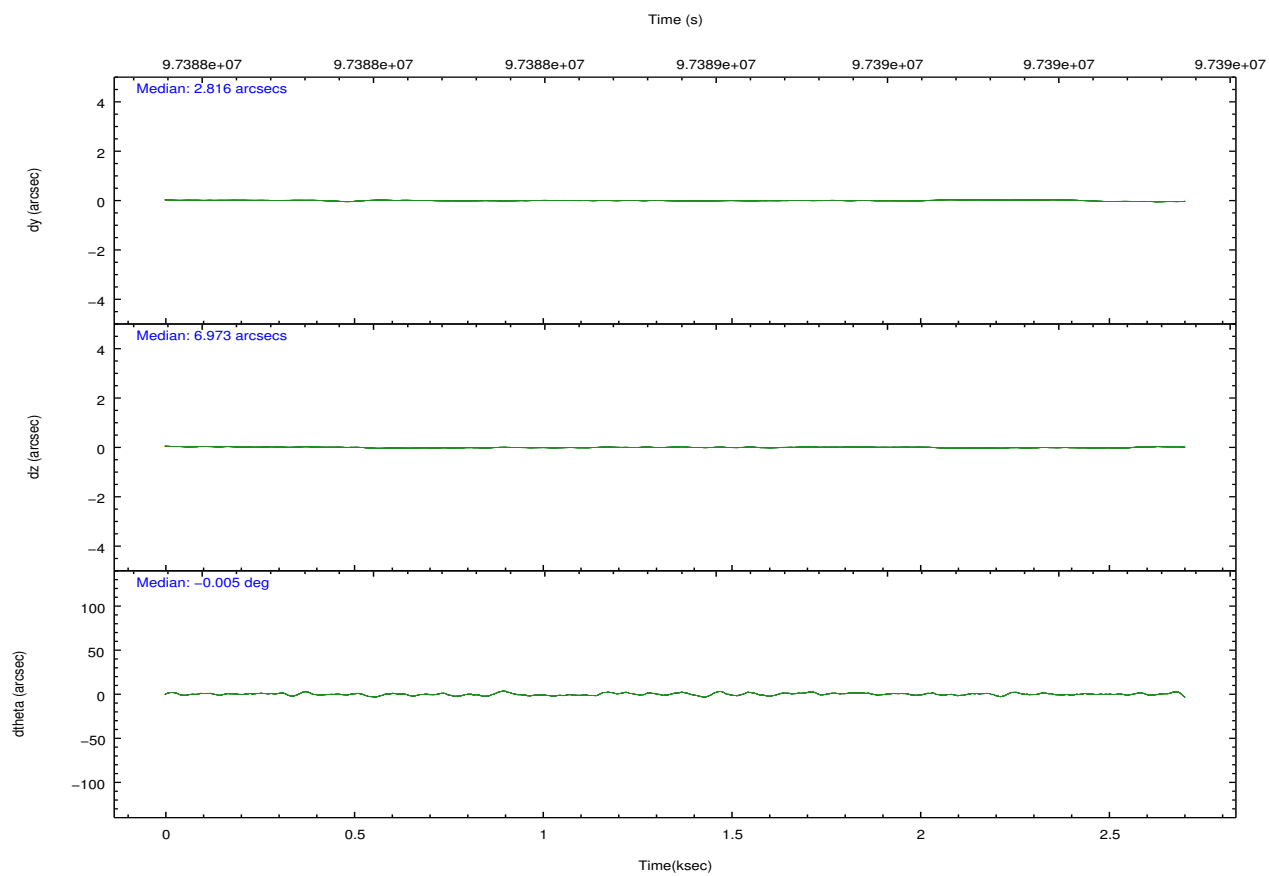
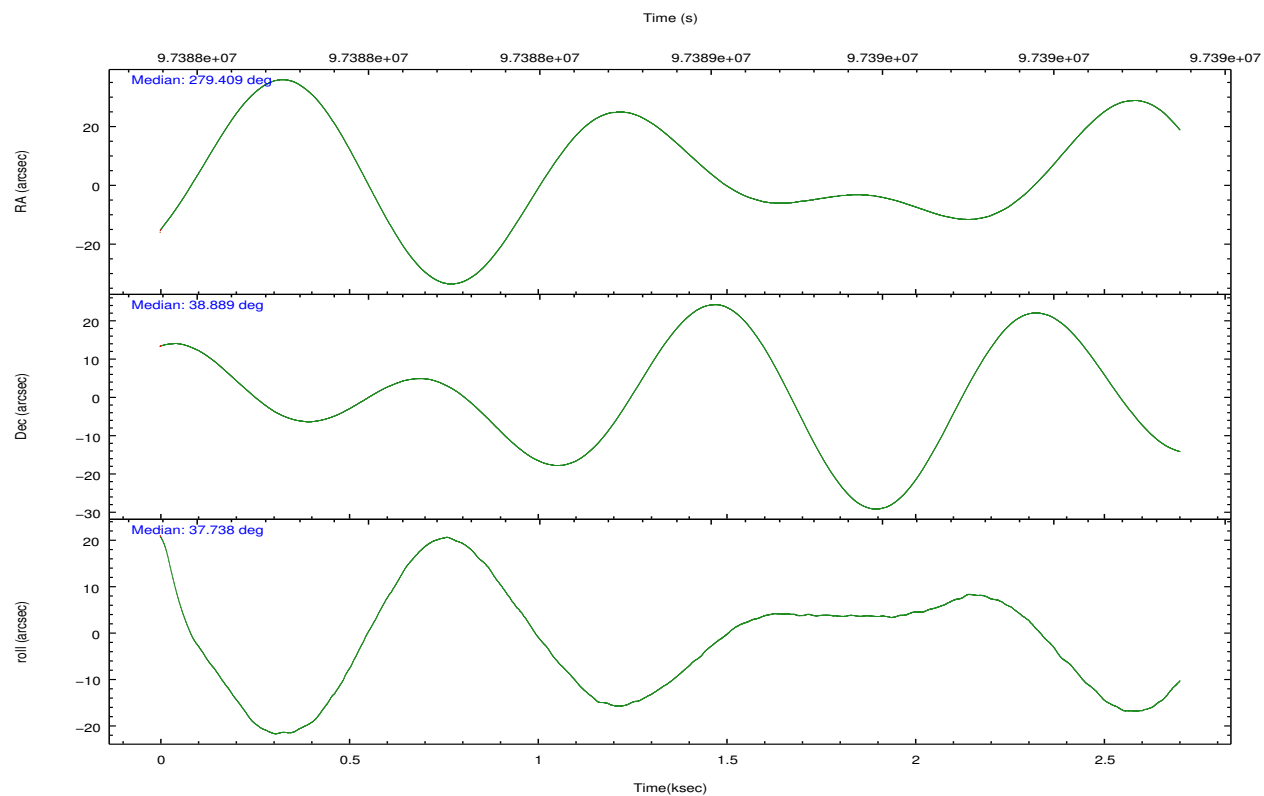
## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	HRC	HRC
Detector	HRC-S	HRC-S
Grating	NONE	NONE
Data mode	OBSERVING	OBSERVING
Observation mode	POINTING	POINTING
[deg] Pointing RA	279.396672	279.4098797465346
[deg] Pointing Dec	38.861554	38.88888508220467
[deg] Pointing Roll	37.680790	37.73985746209715
[s] Window start time (MET)	97372864.184000	97372864.184000
[s] Window stop time (MET)	99705664.184000	99705664.184000
[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)	97387729.184000	97387353.09221201
Observation start date	2001-02-01T04:07:45	2001-02-01T04:02:33
[s] Observation end time (MET)	97390229.184000	97390363.00482801
Observation end date	2001-02-01T04:49:25	2001-02-01T04:52:43

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED

## 2.3 Aspect





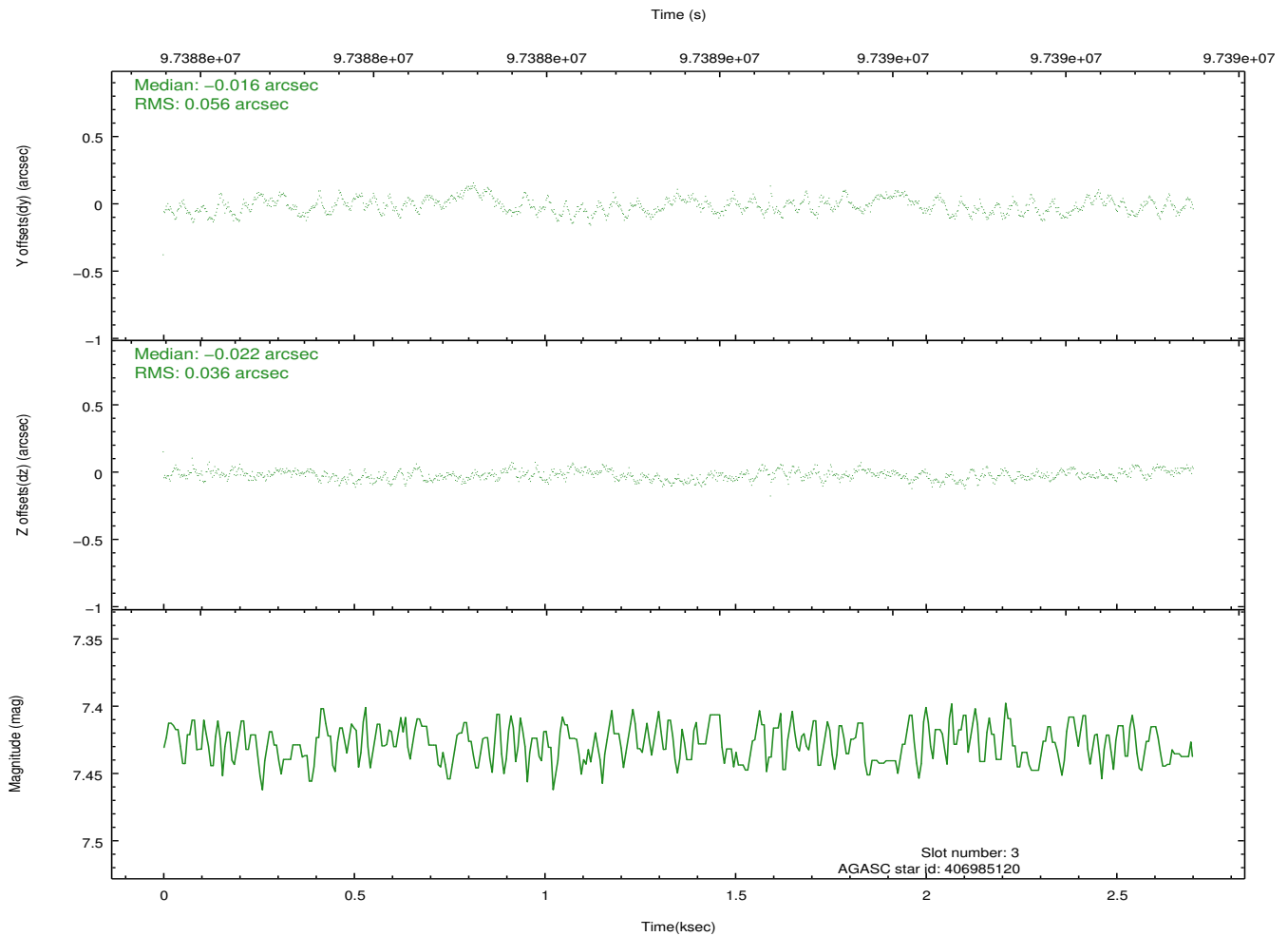
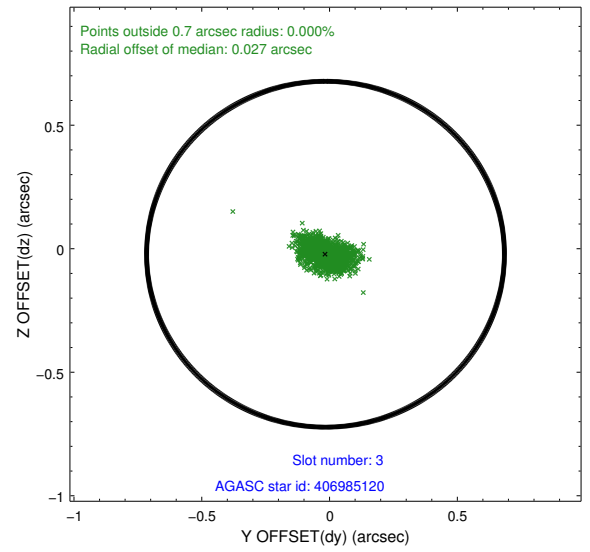
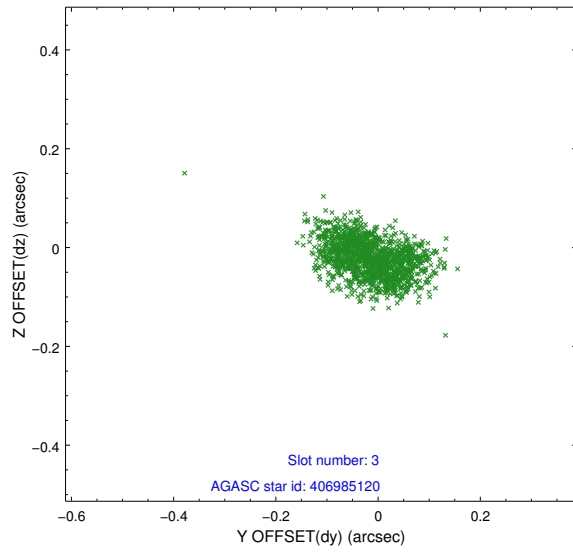
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-S-1	6.97	659	0.103	-0.089	0.007	0.010	0.000000	0.000000	-1156.86	-455.52
1	FID	HRC-S-3	7.00	660	0.153	-0.119	0.008	0.013	0.000000	0.000000	-1161.32	573.29
2	FID	HRC-S-4	6.93	660	0.131	-0.089	0.005	0.010	0.000000	0.000000	1239.63	577.51
3	GUIDE	406985120	7.43	1319	-0.016	-0.022	0.071	0.111	278.839732	38.894839	-1161.35	1052.53
4	GUIDE	406989616	8.23	1319	0.028	0.011	0.068	0.106	279.202881	38.520843	-1184.63	-635.75
5	GUIDE	407521232	8.64	1319	-0.009	-0.043	0.061	0.099	279.628883	39.431715	1762.81	1230.17
6	GUIDE	406983600	8.92	1319	-0.021	0.043	0.069	0.112	279.940957	39.020708	1556.74	-472.43
7	GUIDE	406985256	8.56	1318	0.013	0.015	0.060	0.101	278.693335	38.842203	-1600.02	1156.08

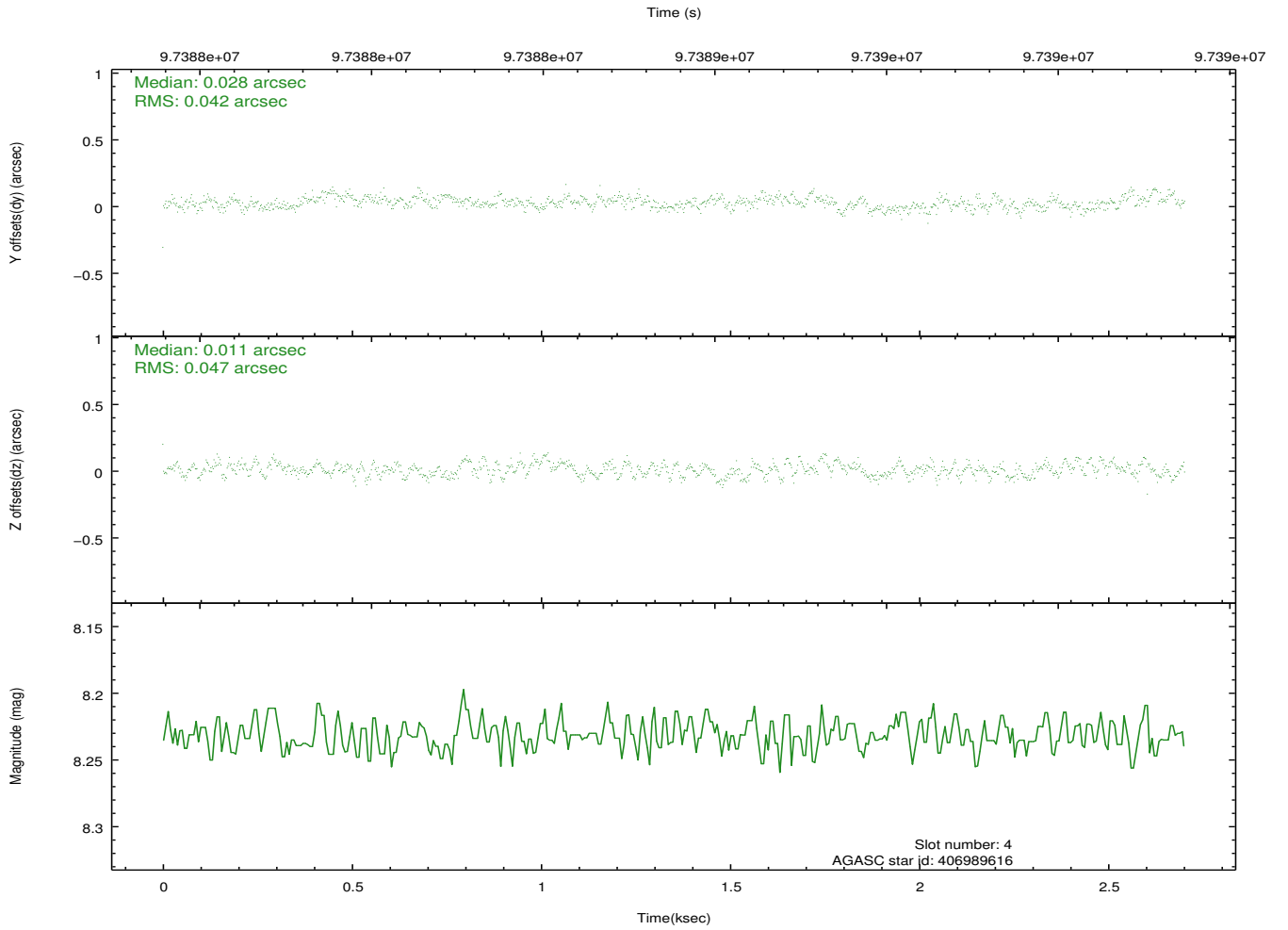
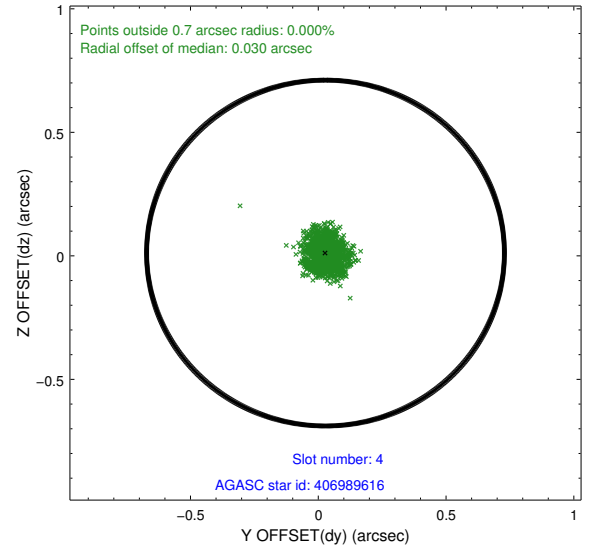
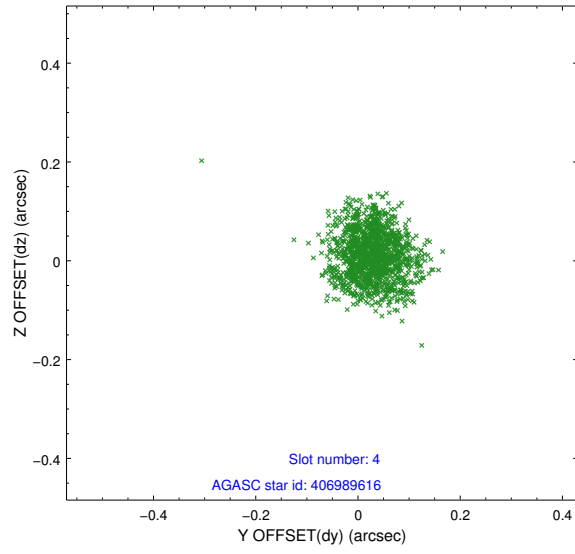


## 2.4 Star Slots

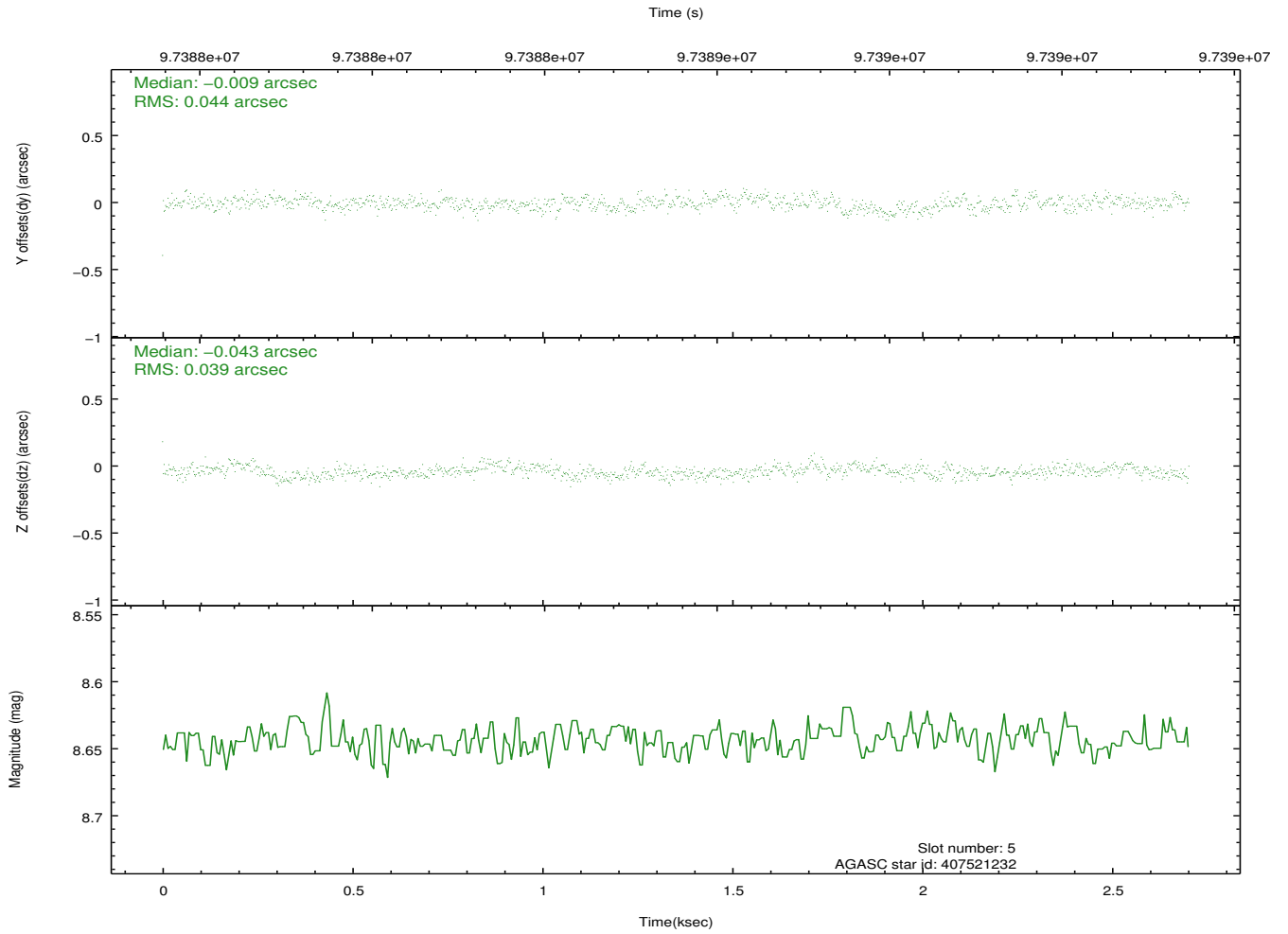
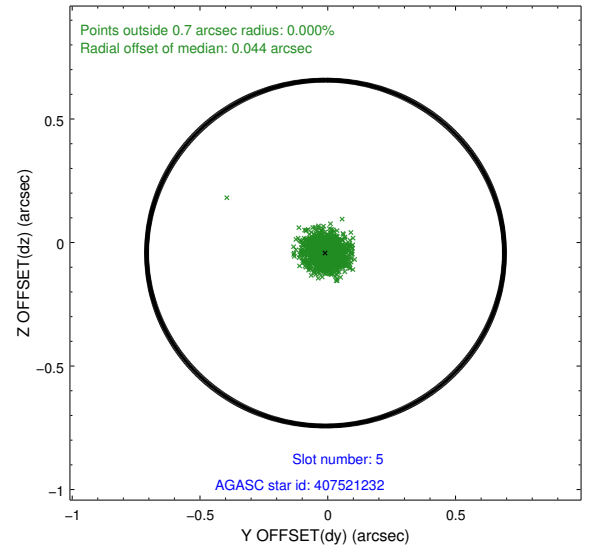
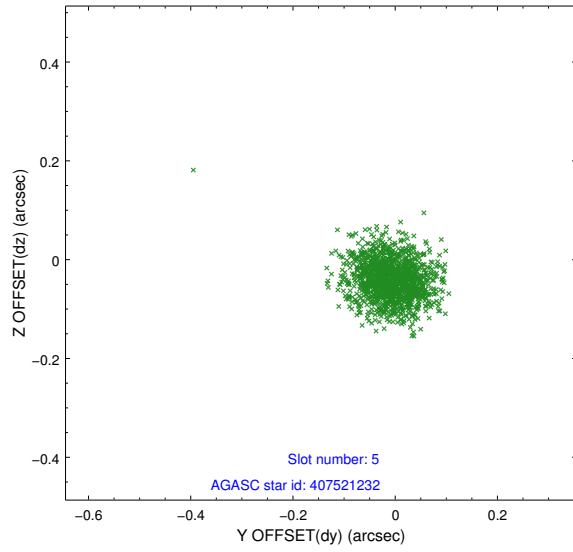
### 2.4.1 Slot 3



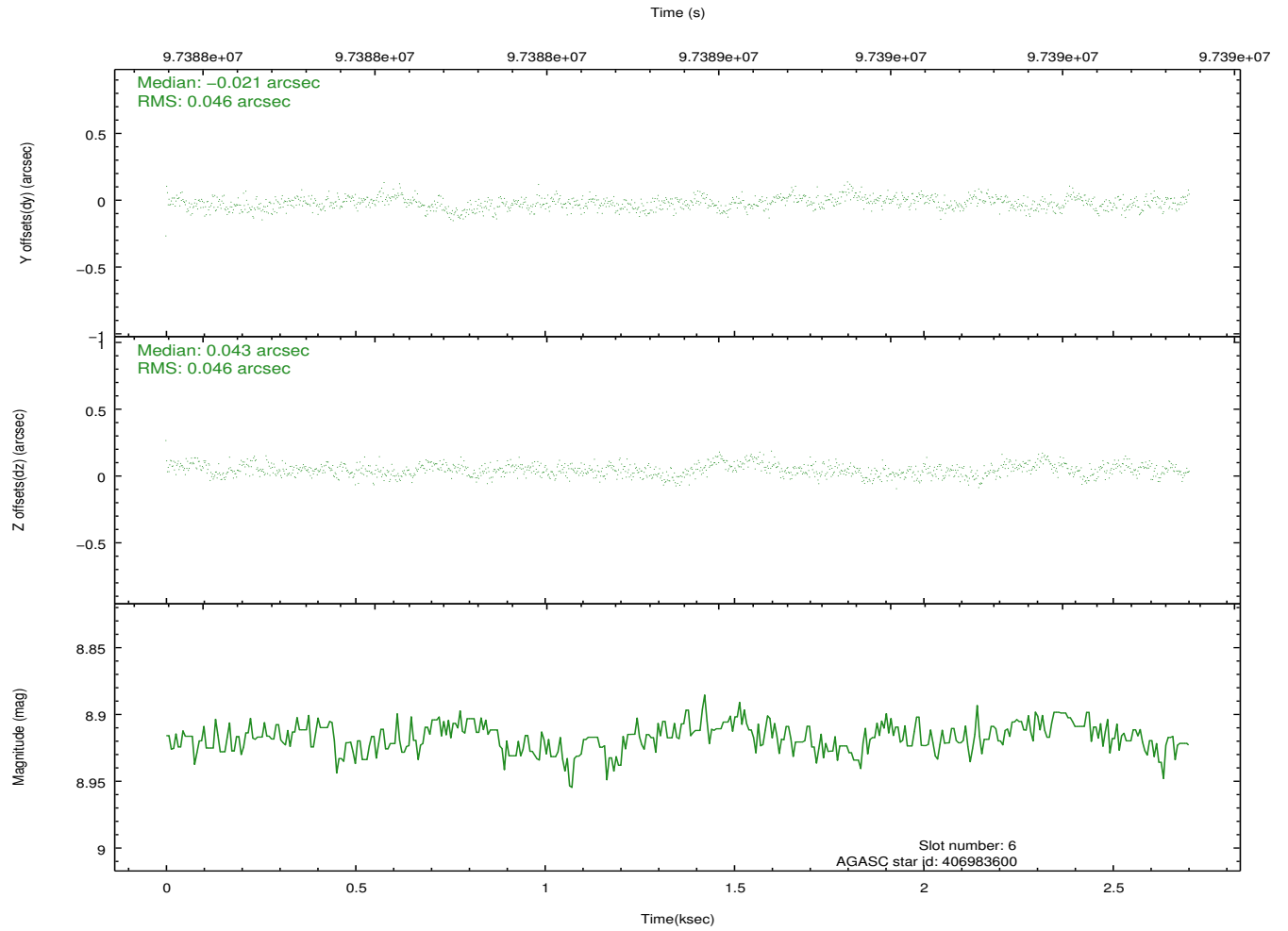
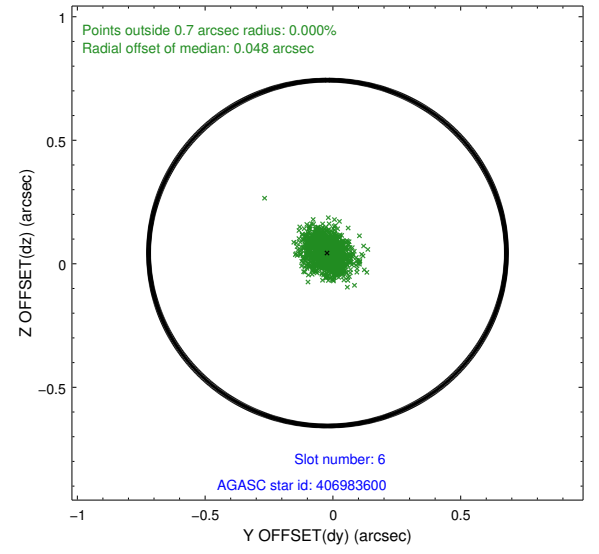
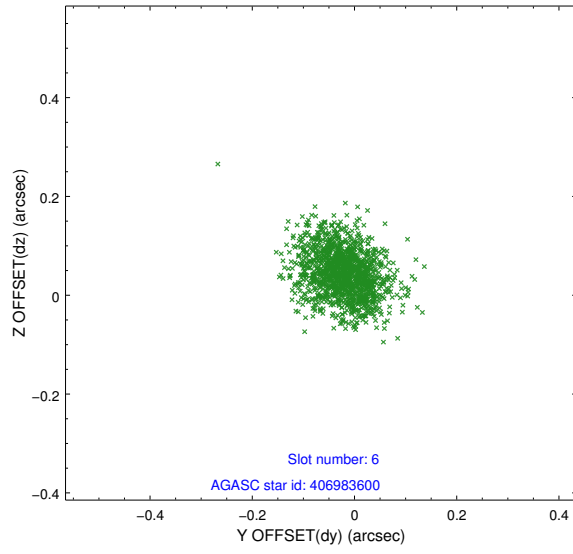
## 2.4.2 Slot 4



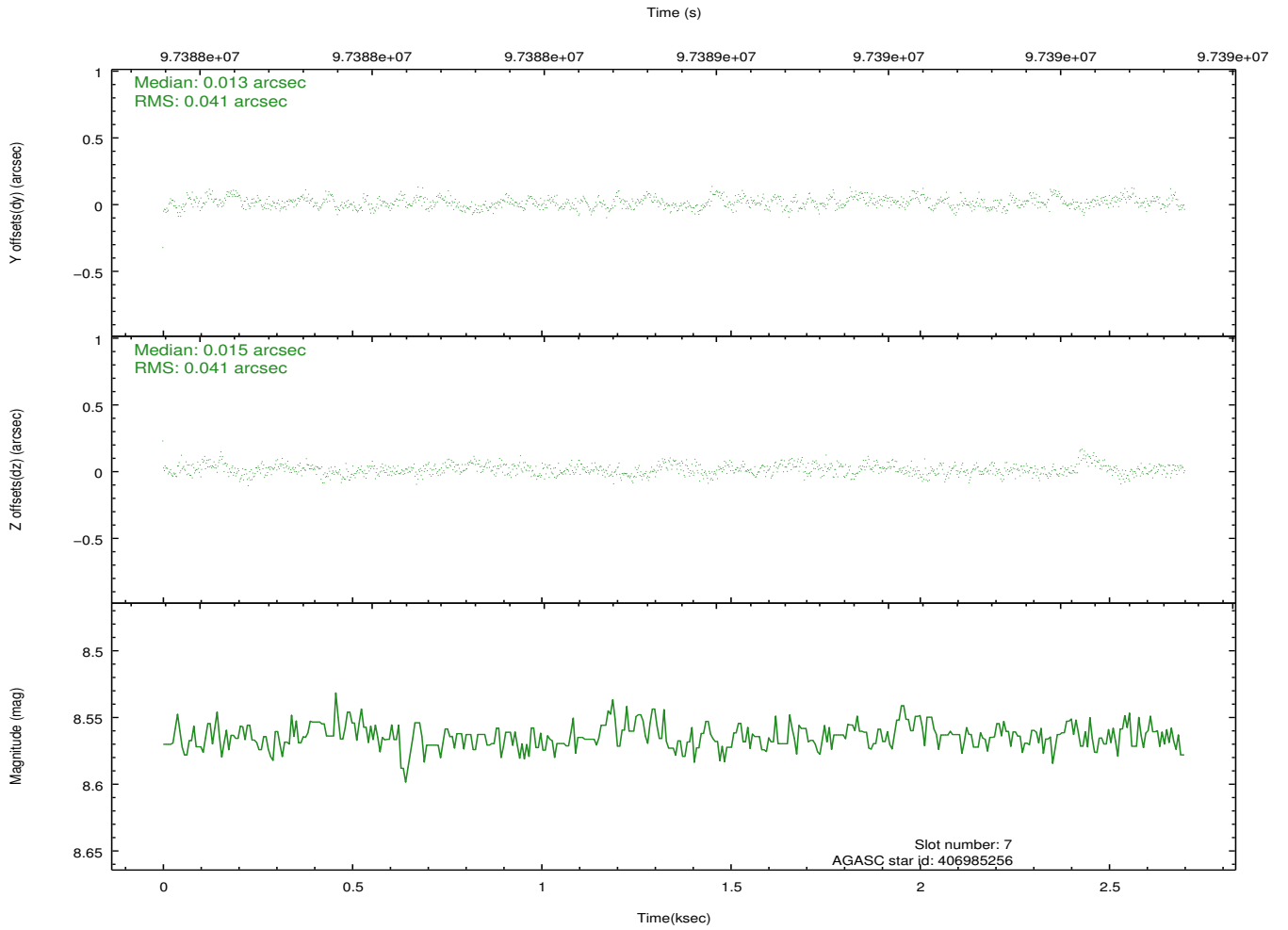
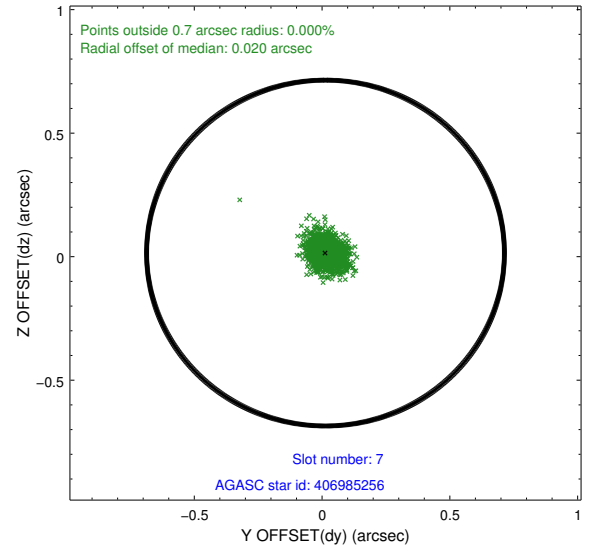
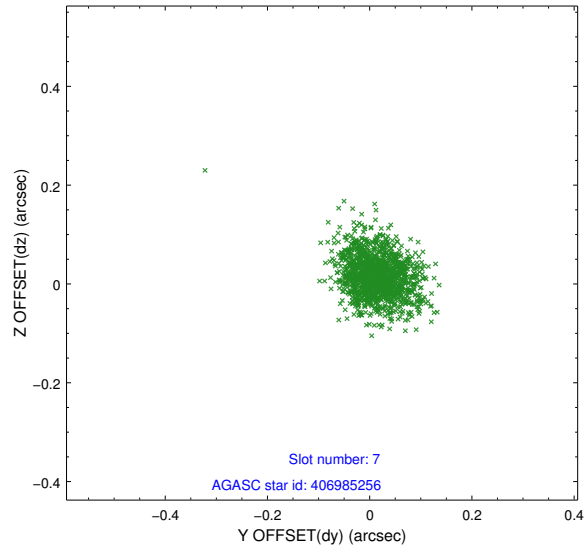
### 2.4.3 Slot 5



## 2.4.4 Slot 6

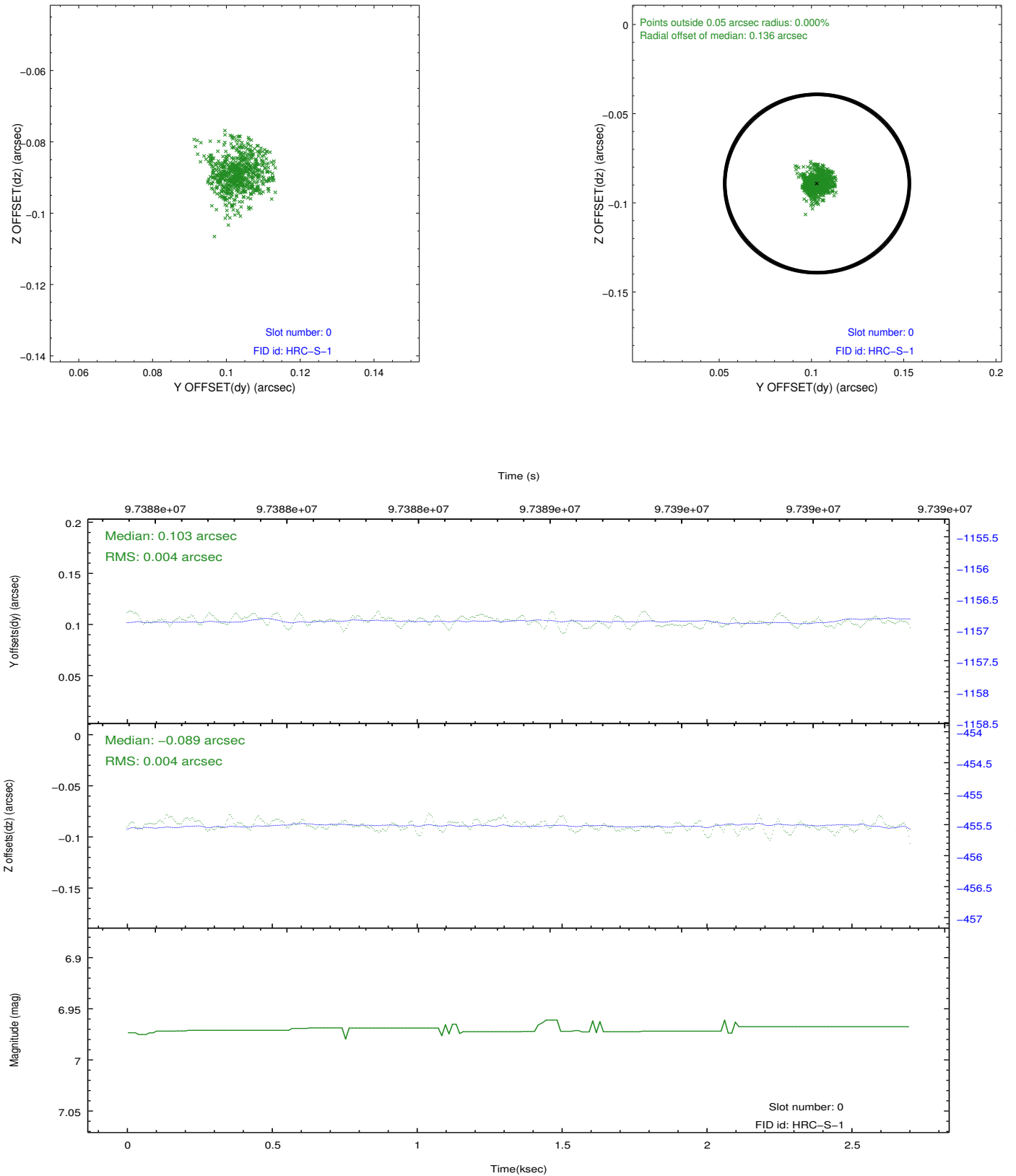


## 2.4.5 Slot 7

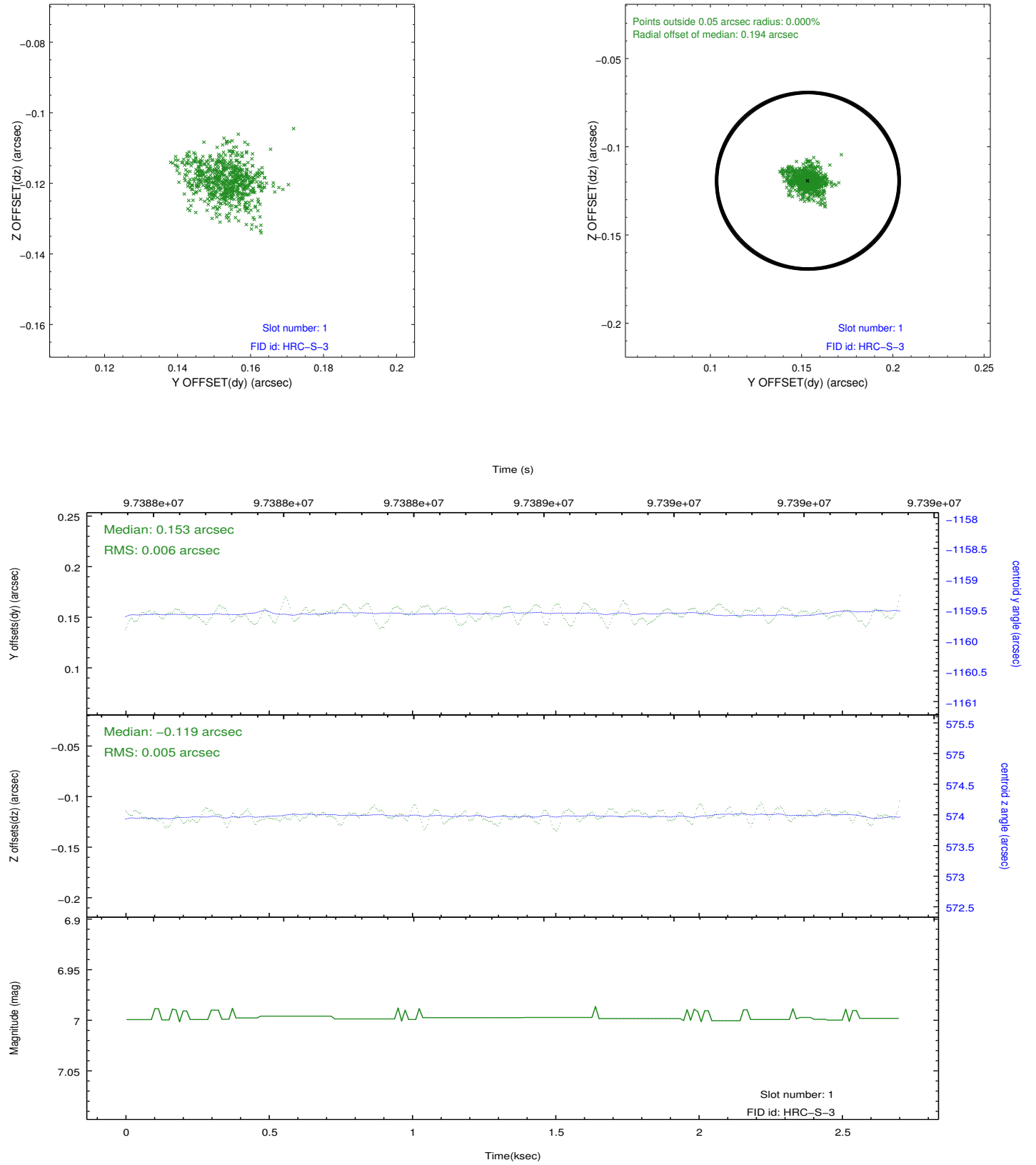


## 2.5 FID Slots

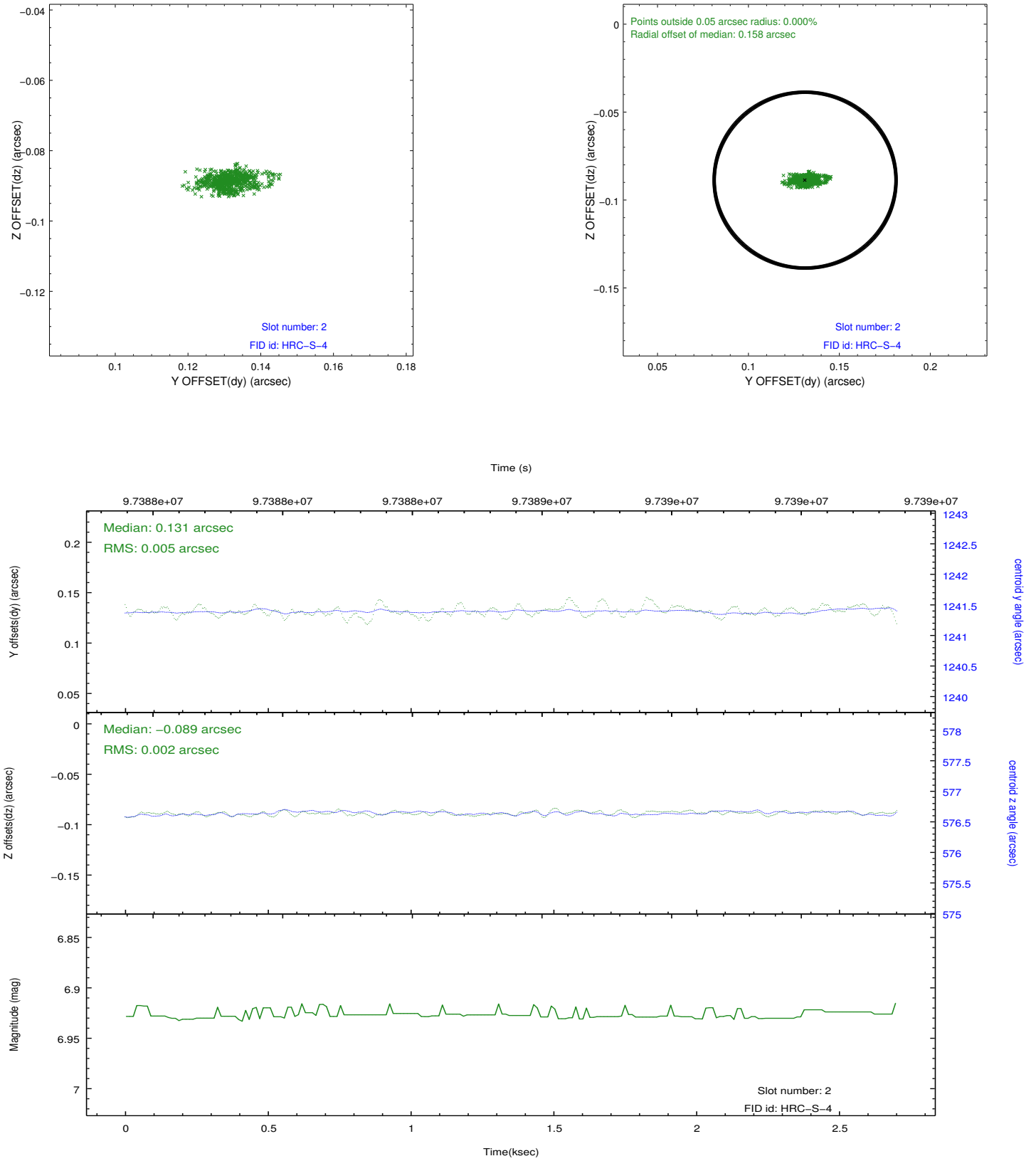
### 2.5.1 Slot 0



## 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)	2012.09.17
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.701

### A.2 Comments

Window constraint met. The source is off-axis and therefore extended.