

# V&V Reference Report

## L2 ASCDS Version : 8.5

Observation 5348 - L2 Version 3  
Chandra X-Ray Center

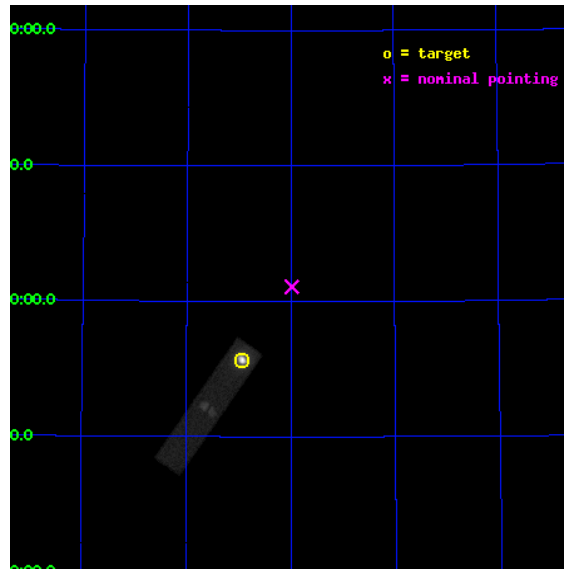
L2 Processing Date : Dec 10 2012

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# 1 Front

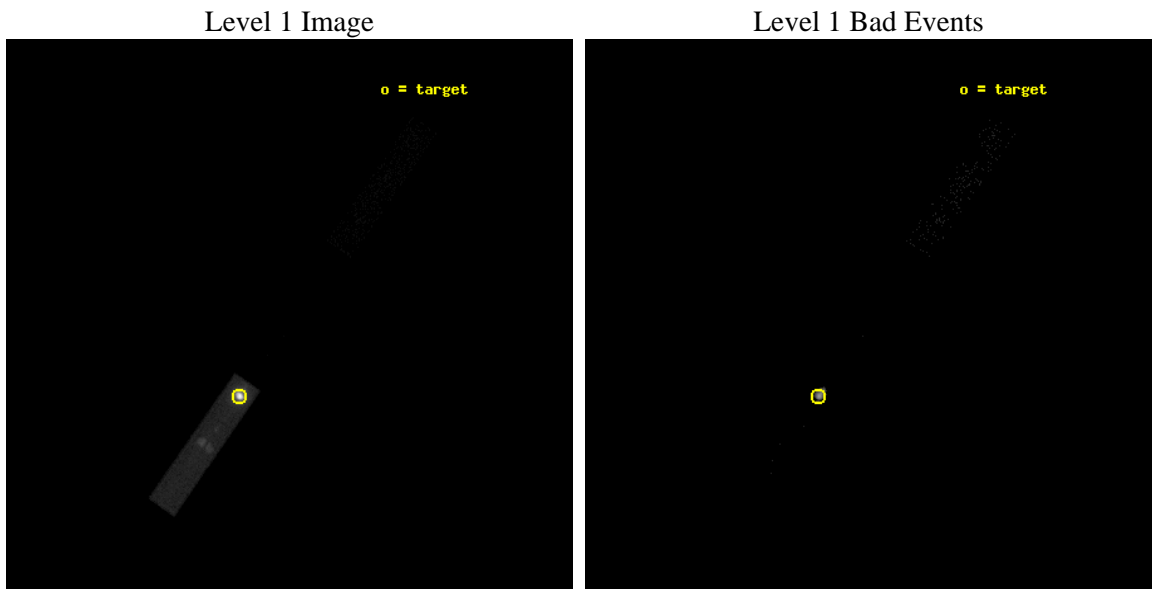
seq_num	290445	Sequence number
obs_id	5348	Observation id
title	Monitoring the health of the HRC UV Ion shield	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	Vega	Source name
ra_targ	279.235	Observer's specified target RA [deg]
dec_targ	38.783778	Observer's specified target Dec [deg]
ra_nom	278.99468968157	Nominal RA [deg]
dec_nom	39.054021175655	Nominal Dec [deg]
roll_nom	304.78780875736	Nominal Roll [deg]
revision	3	Processing version of data
ontime	3178.7813925445	[s]
livetime	1106.9921232891	Ontime multiplied by DTCOR
l2events	568615	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	3000.000000	[s] Scheduled observation exposure time
ascdsver	8.5	Processing system revision	ontime	3178.7813925445	[s]
caldsver	4.5.4	&#160	l1events	632753	Number of level 1 events
date	2012-12-11T00:26:45	Date and time of file creation			
revision	3	Processing version of data			

### 2.1.3 Events

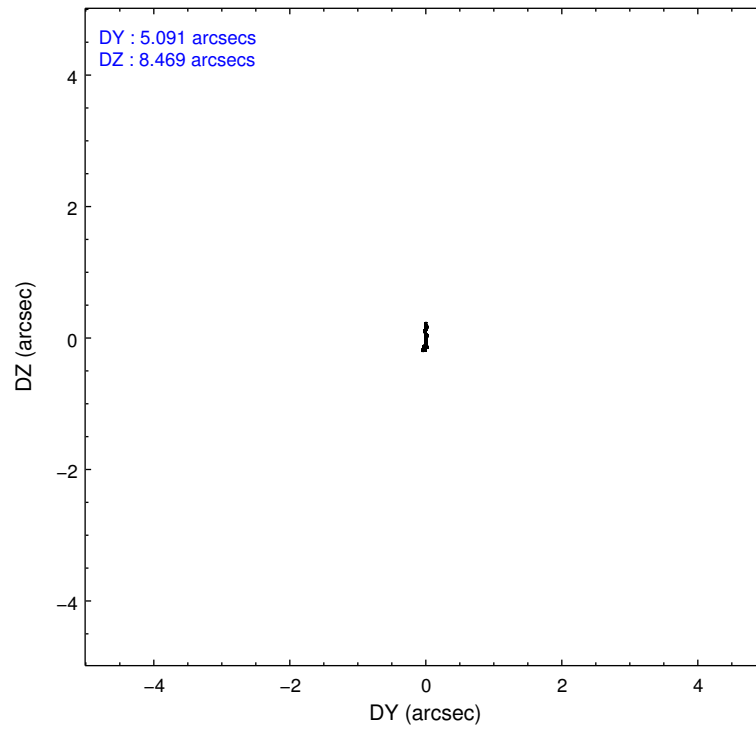
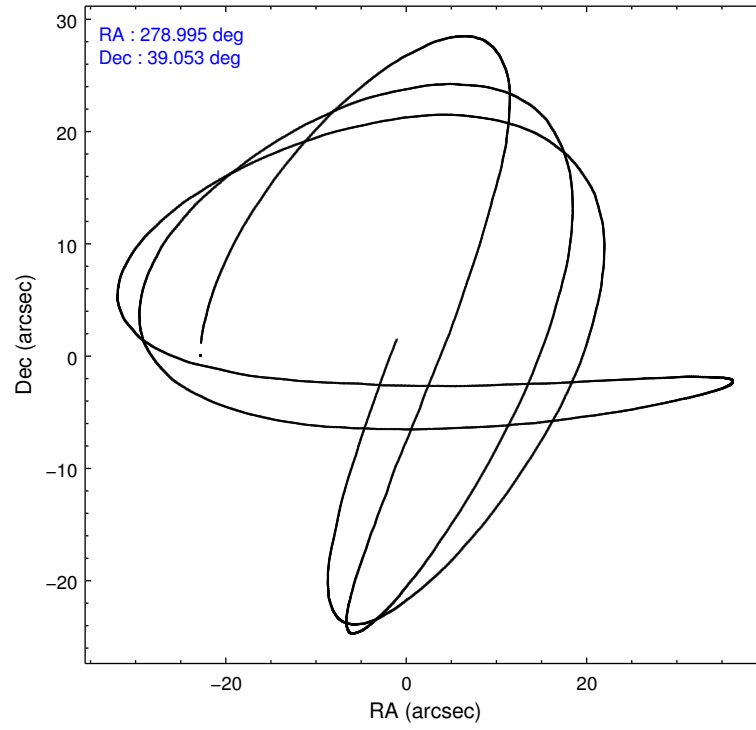
Level 1 Events

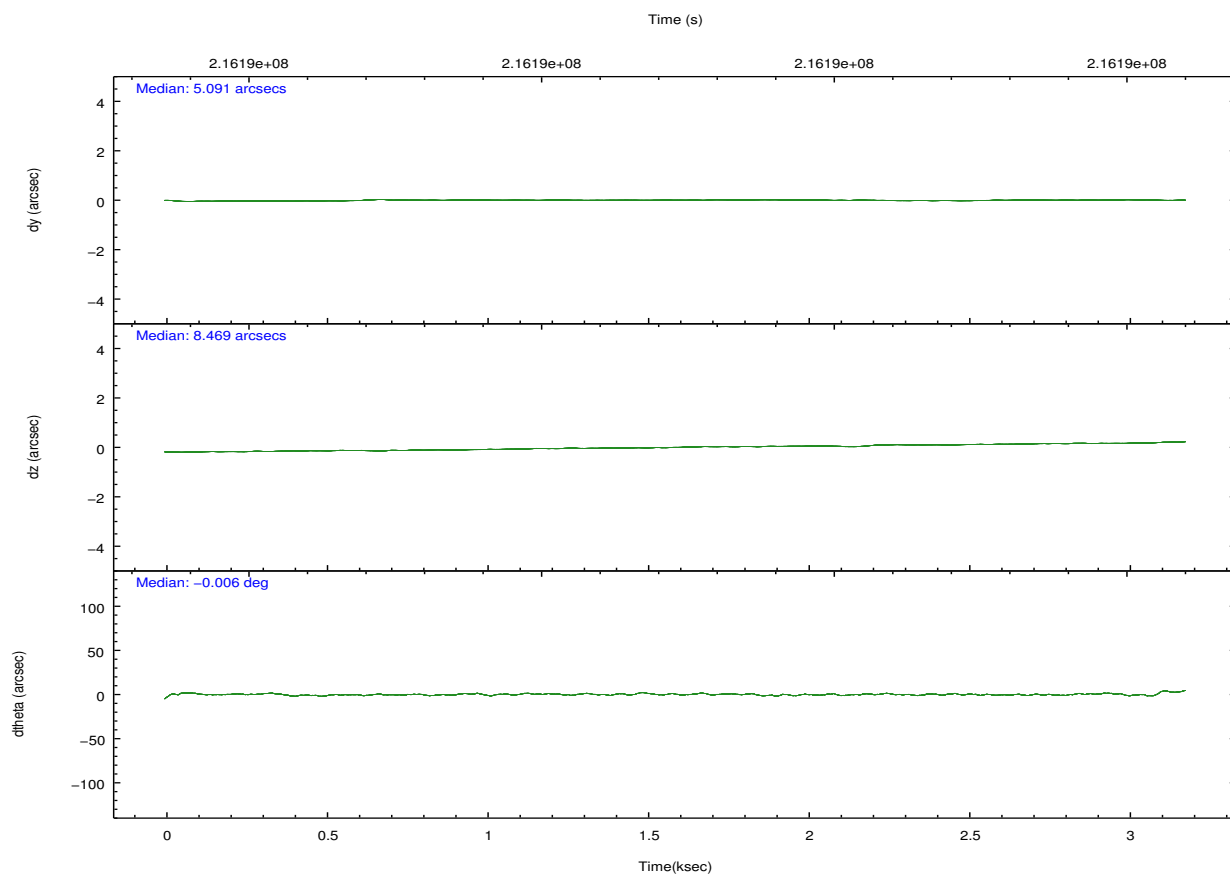
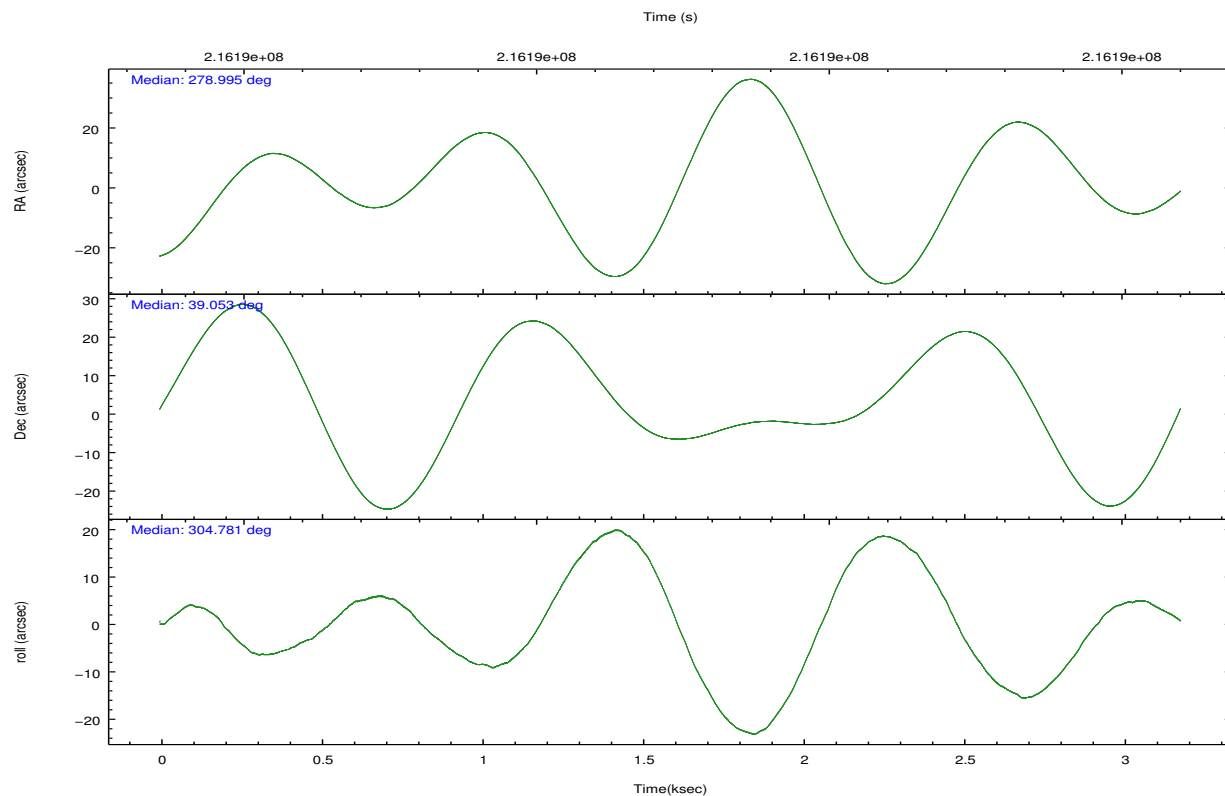
	<b>segment 1</b>	<b>segment 2</b>	<b>segment 3</b>
level 1 events	4178	260	628315
rejected events	4148	240	42201
rejected %	99%	92%	6%

## 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	278.960666	278.994689681568			
[deg] Pointing Dec	39.064970	39.05402117565453			
[deg] Pointing Roll	304.741933	304.7878087573587			
[s] Window start time (MET)	215654464.184000	215654464.184000			
[s] Window stop time (MET)	218246404.184000	218246404.184000			
[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)	216190044.184000	216189668.37411			
Observation start date	2004-11-07T04:46:20	2004-11-07T04:41:08			
[s] Observation end time (MET)	216193044.184000	216193178.48677			
Observation end date	2004-11-07T05:36:20	2004-11-07T05:39:38			

## 2.3 Aspect





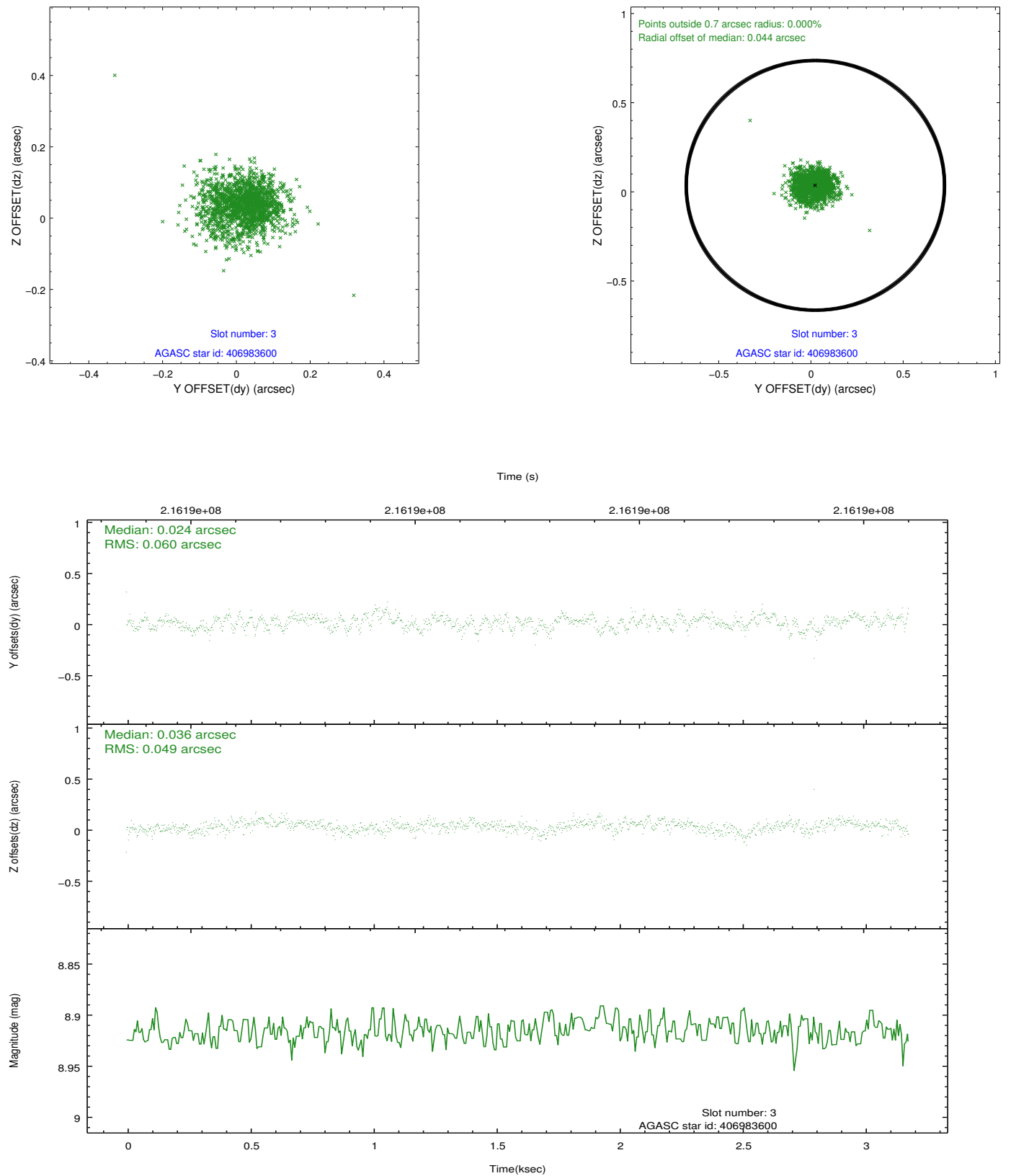
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-S-1	7.00	776	0.119	-0.114	0.005	0.010	0.000000	0.000000	-1159.17	-457.11
1	FID	HRC-S-2	6.99	776	0.121	-0.150	0.008	0.015	0.000000	0.000000	1239.02	-450.26
2	FID	HRC-S-4	6.95	776	0.162	-0.039	0.007	0.014	0.000000	0.000000	1240.68	574.58
3	GUIDE	406983600	8.92	1552	0.024	0.036	0.081	0.130	279.940957	39.020708	1681.87	2171.34
4	GUIDE	406989616	8.25	1552	0.068	0.115	0.067	0.113	279.202881	38.520843	1999.14	-553.10
5	GUIDE	406990192	9.00	1548	-0.071	-0.076	0.093	0.152	278.510952	38.533654	849.22	-2128.91
6	GUIDE	407510432	8.13	1552	-0.117	-0.051	0.068	0.108	278.762778	39.530640	-1690.59	502.90
7	GUIDE	407521232	8.66	1551	0.104	-0.026	0.088	0.138	279.628883	39.431715	-32.75	2283.73

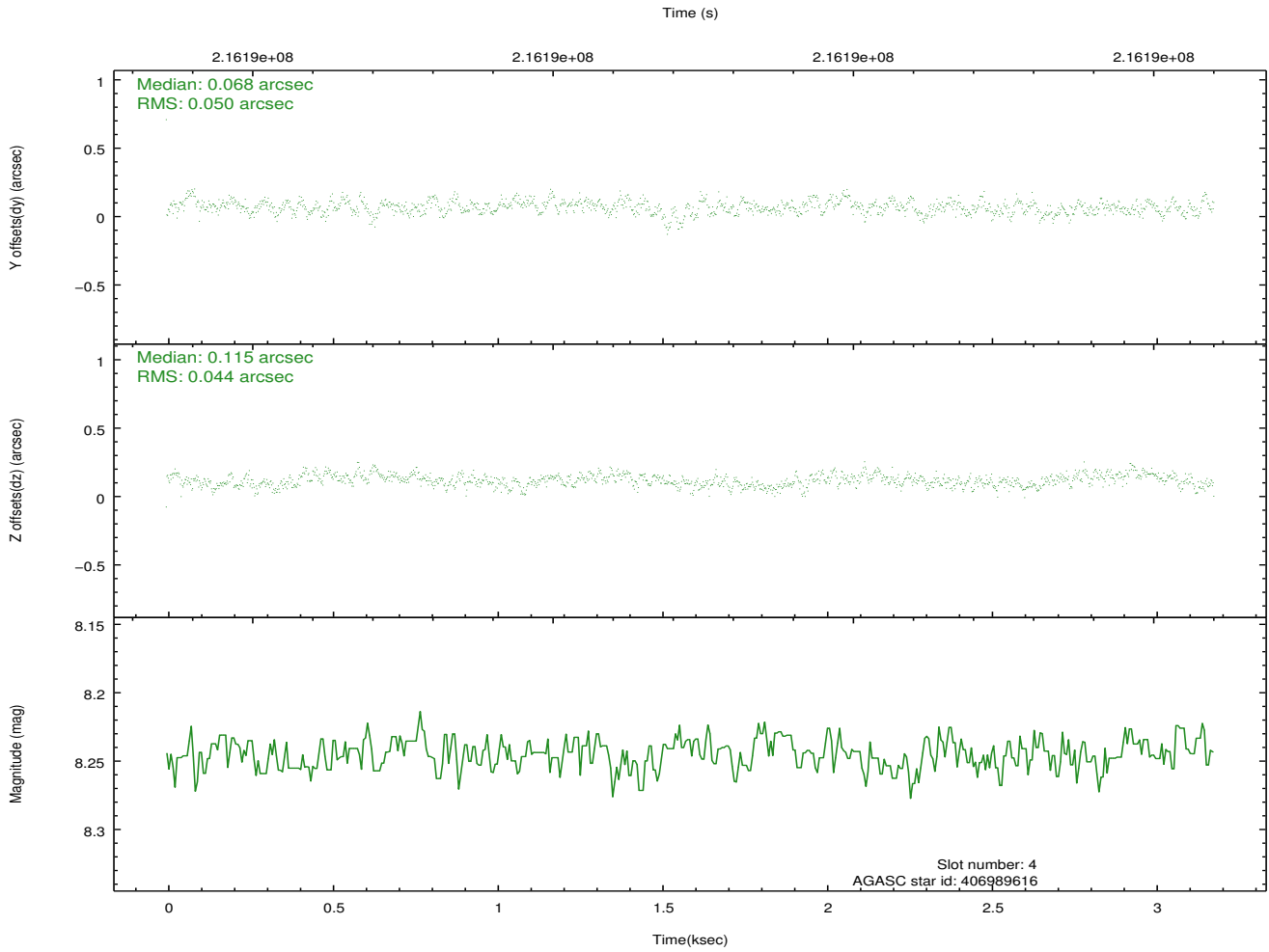
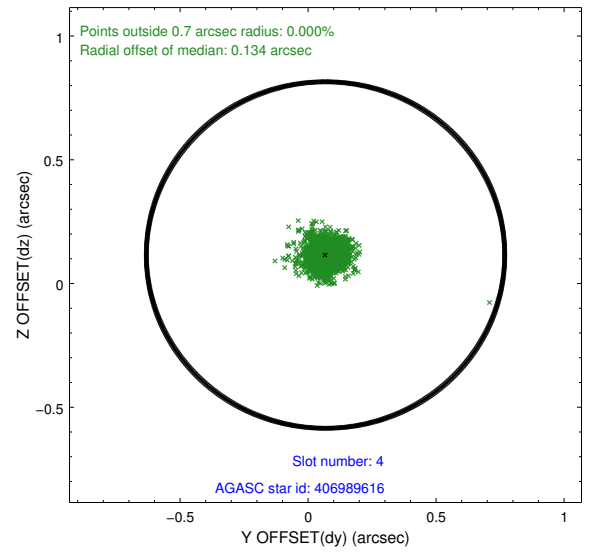
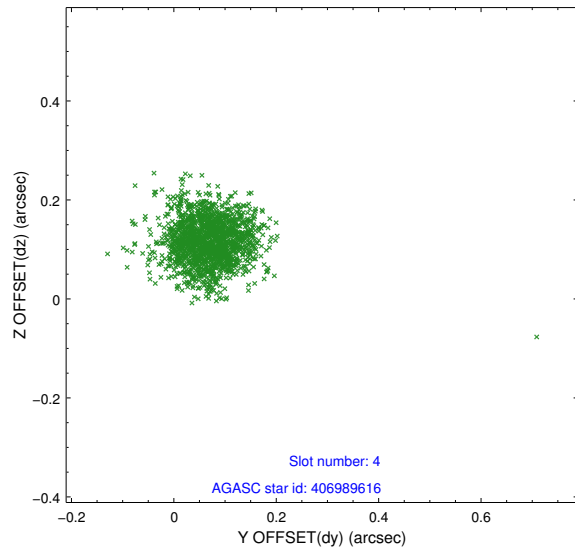


## 2.4 Star Slots

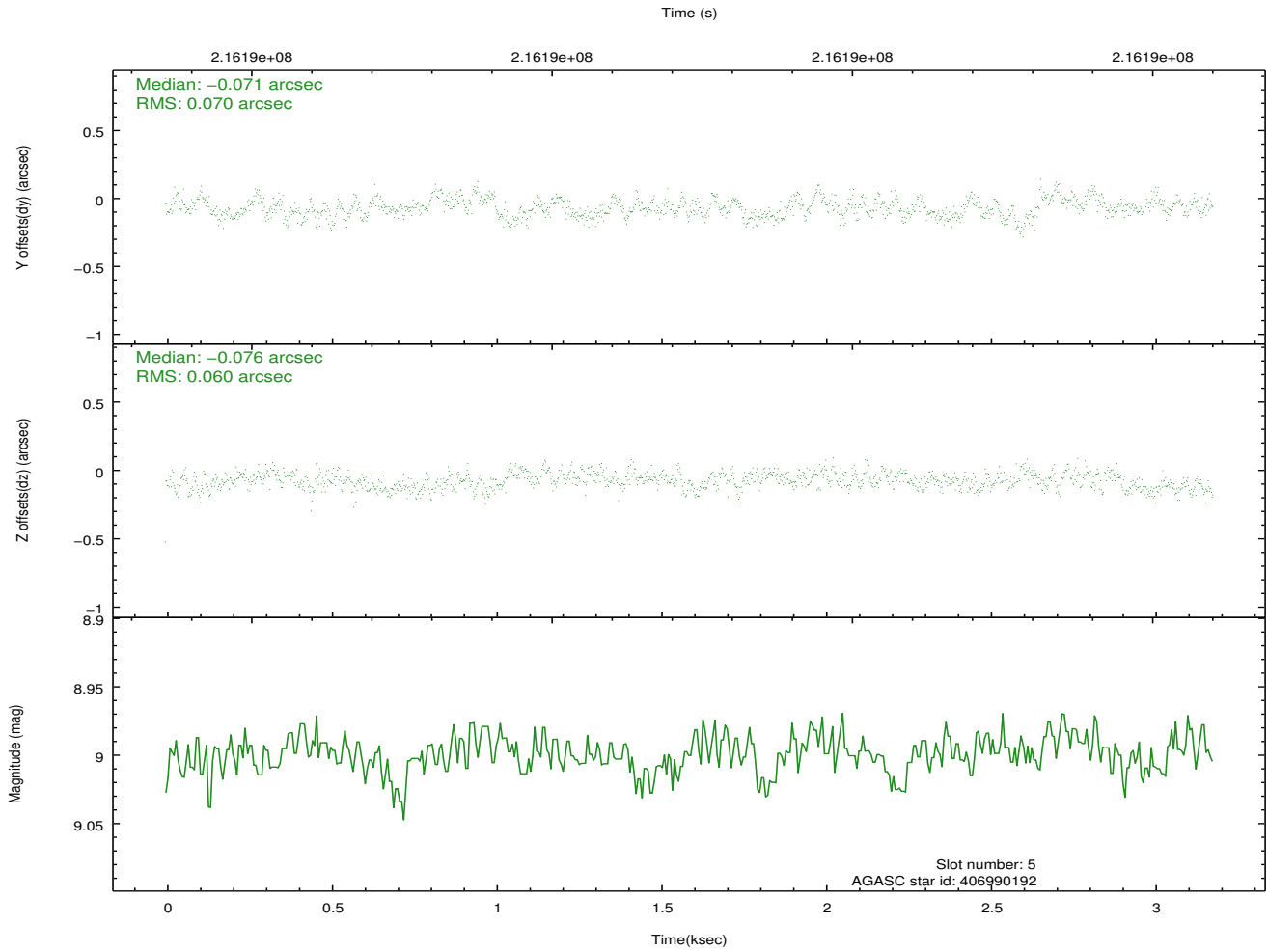
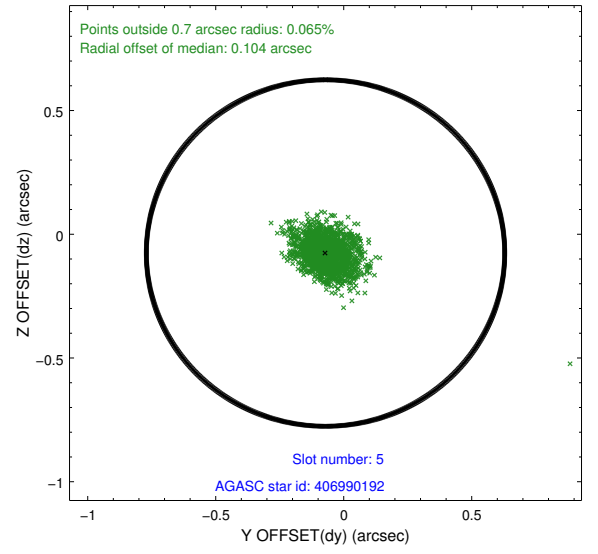
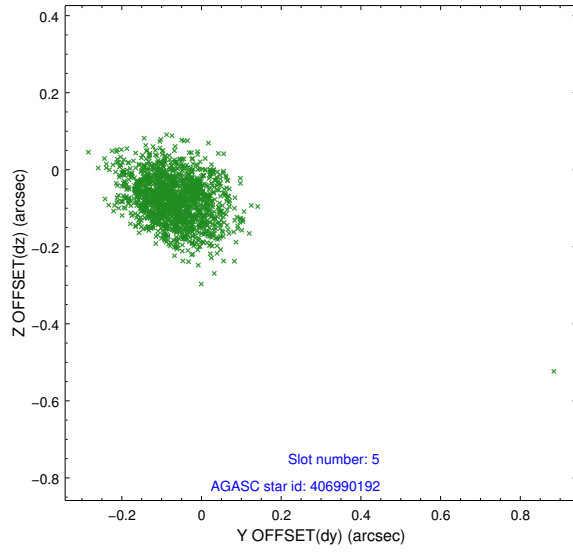
### 2.4.1 Slot 3



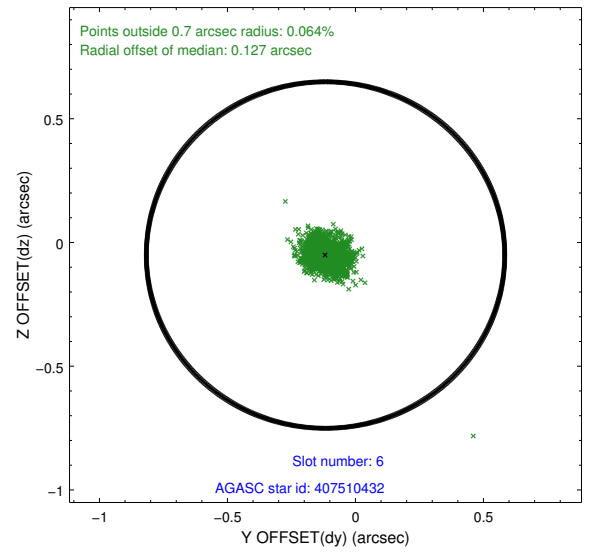
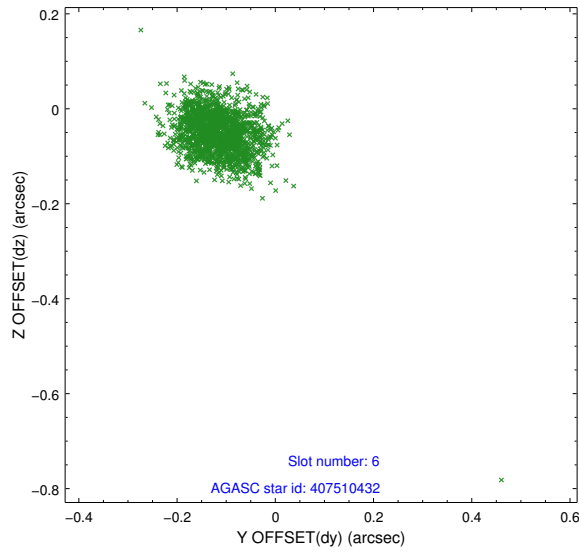
## 2.4.2 Slot 4



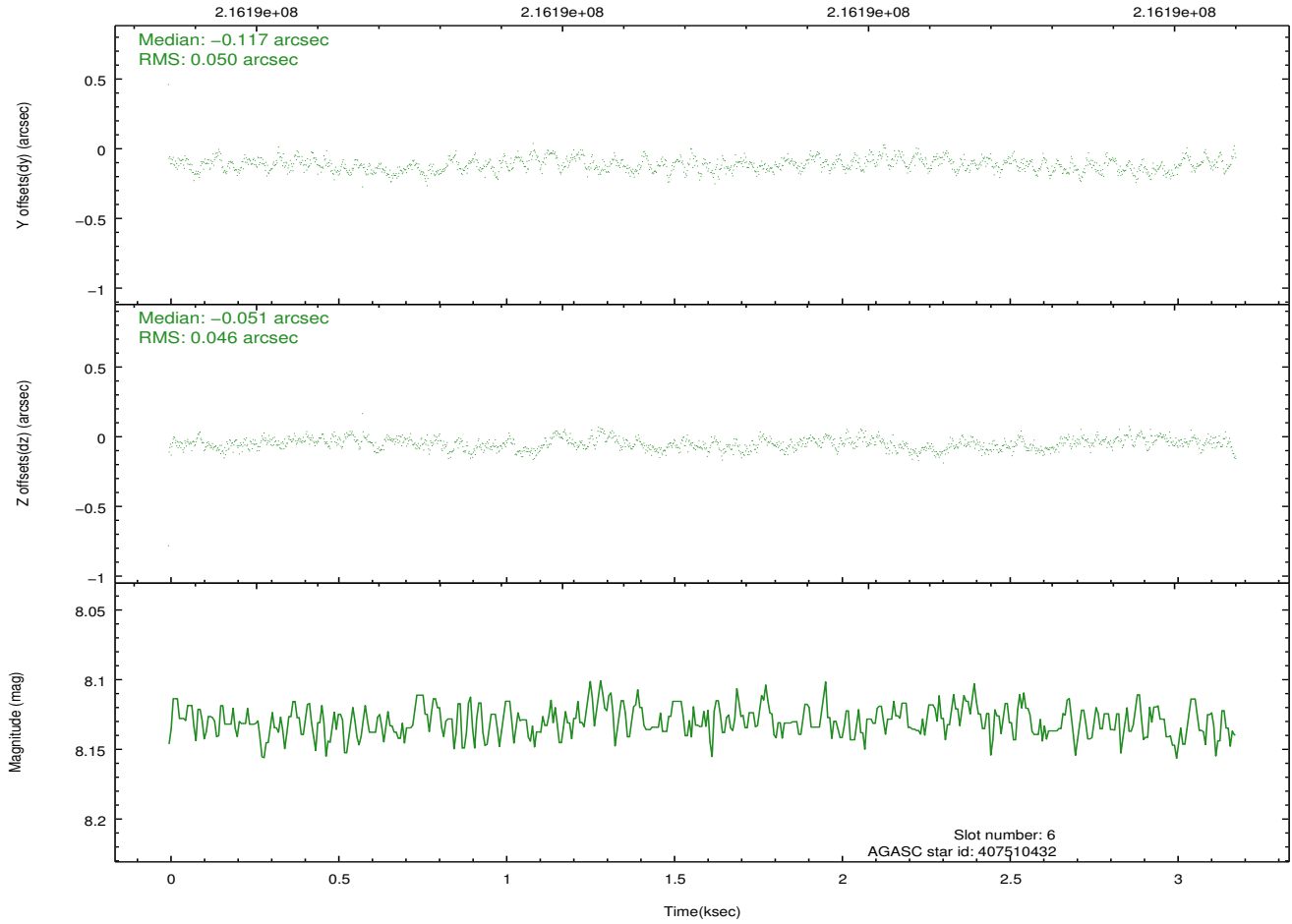
### 2.4.3 Slot 5



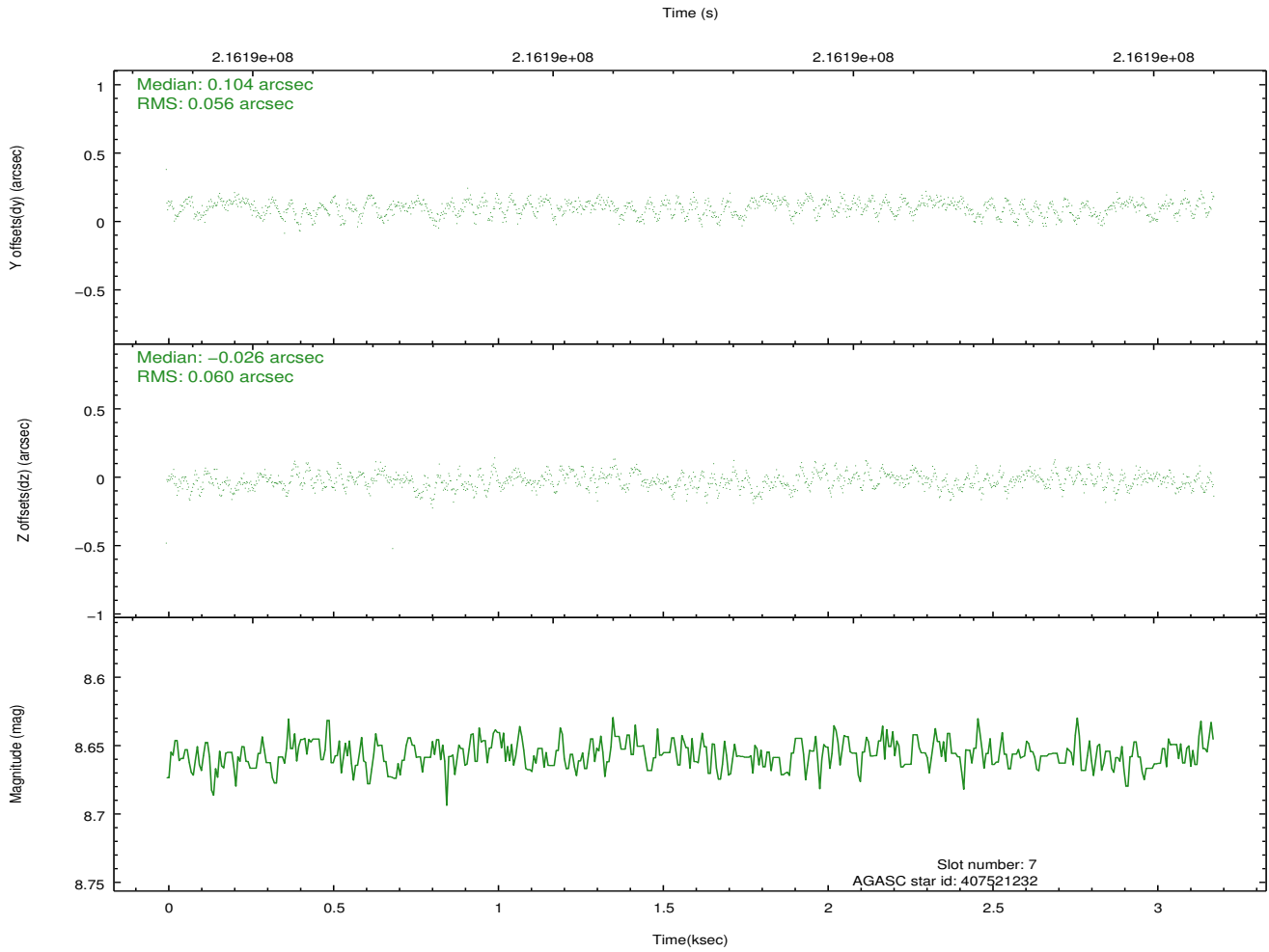
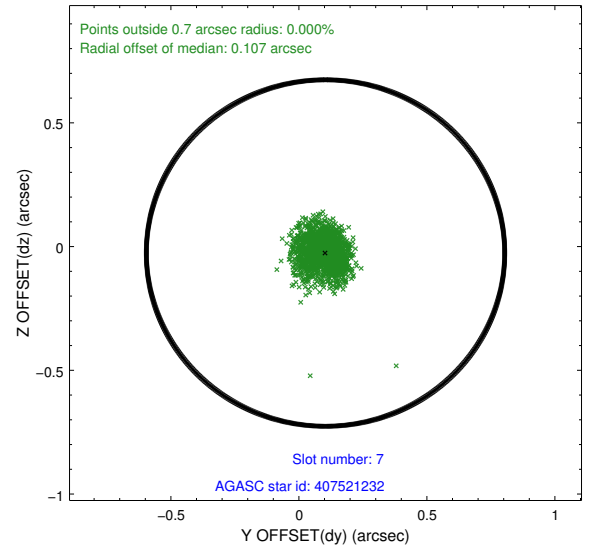
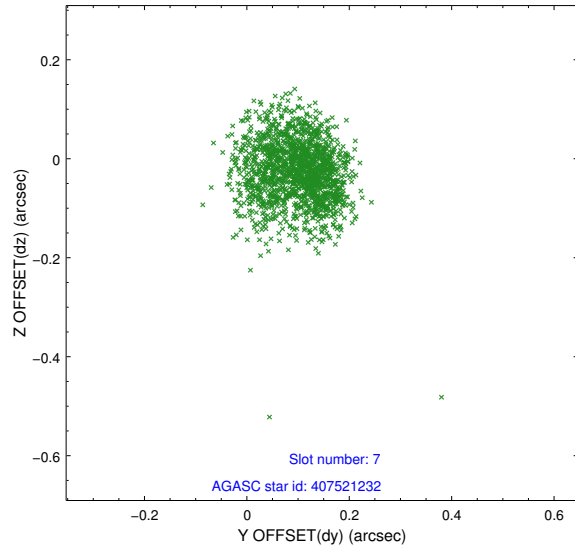
## 2.4.4 Slot 6



Time (s)

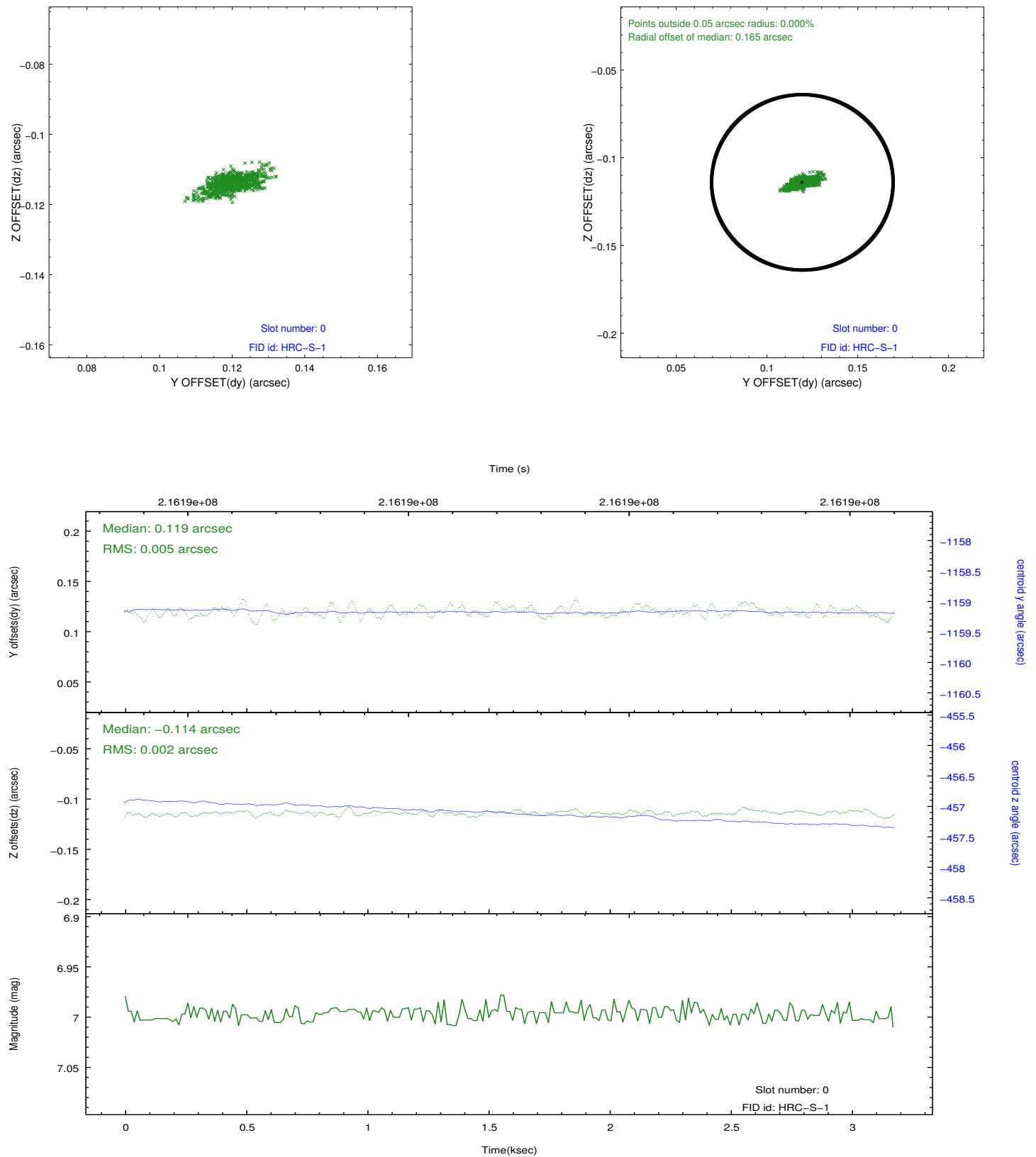


## 2.4.5 Slot 7

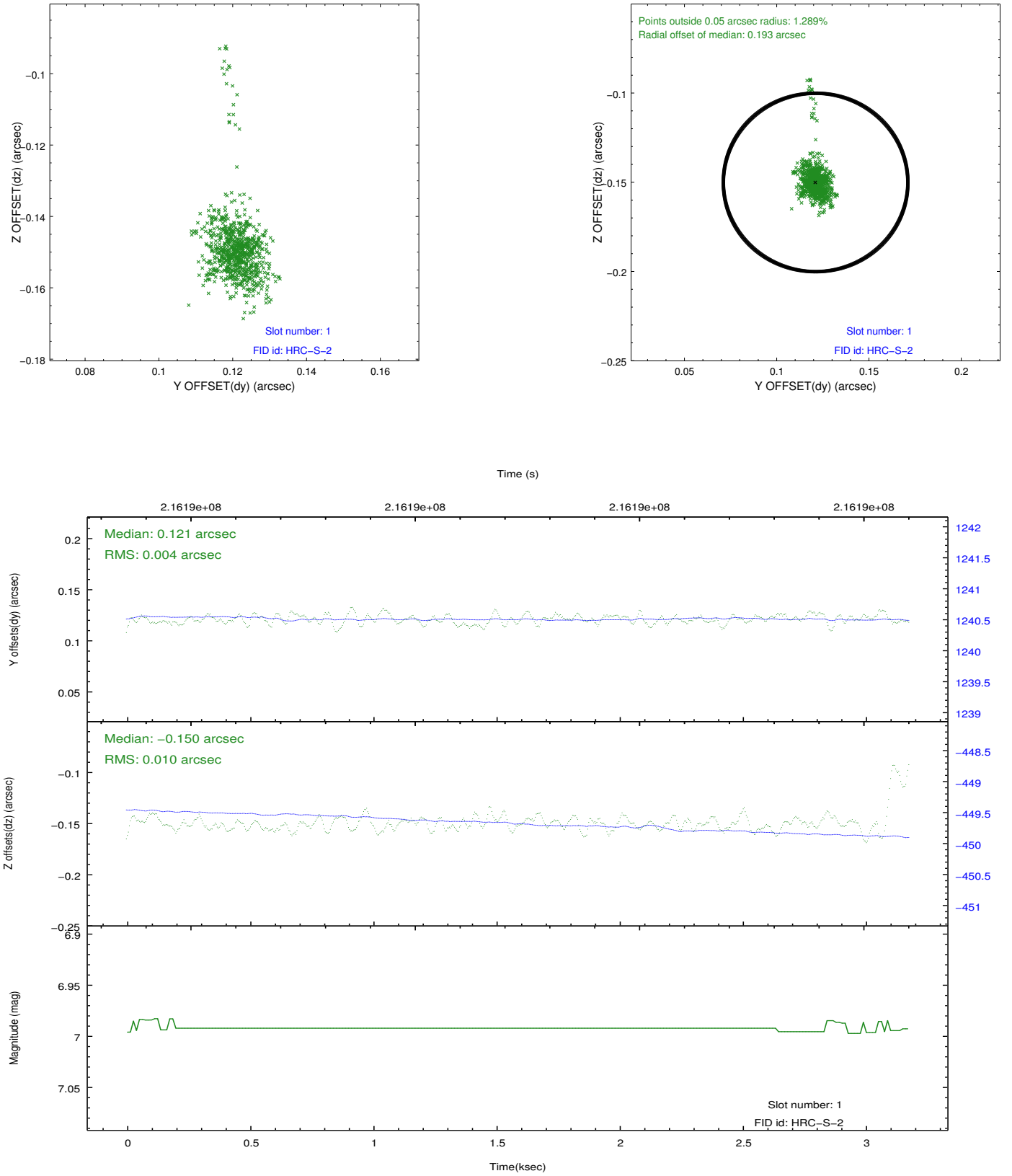


## 2.5 FID Slots

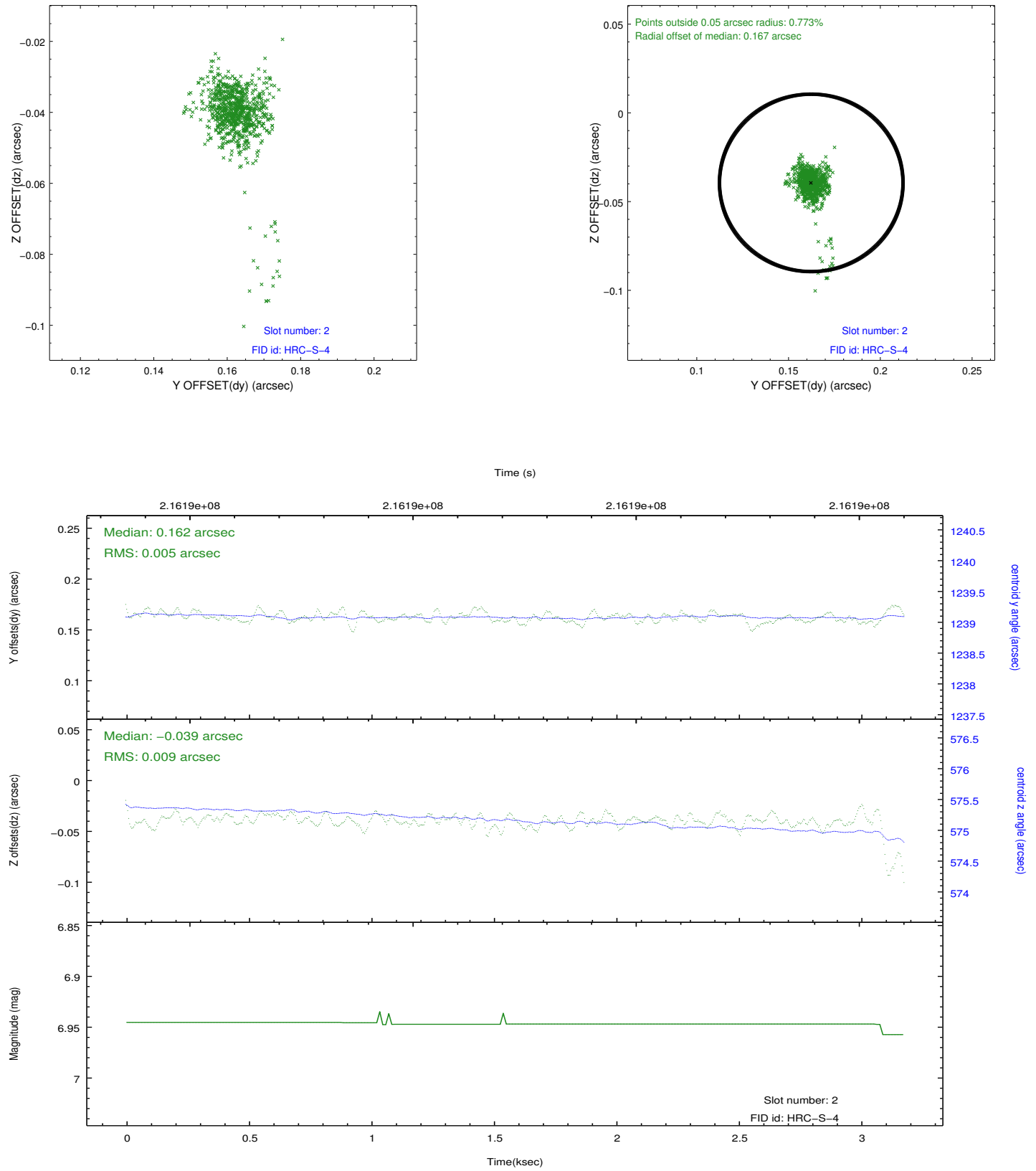
### 2.5.1 Slot 0



## 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)	2013.01.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.178

### A.2 Comments

Window constraint met.