

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 2590 - L2 Version 3  
Chandra X-Ray Center

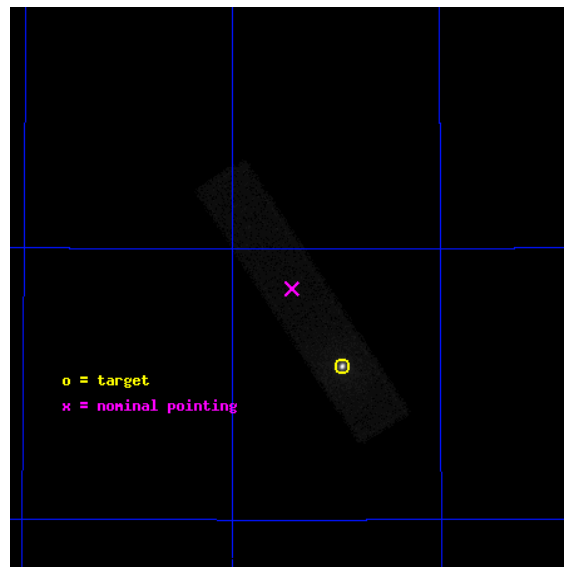
L2 Processing Date : Oct 2 2012

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# 1 Front

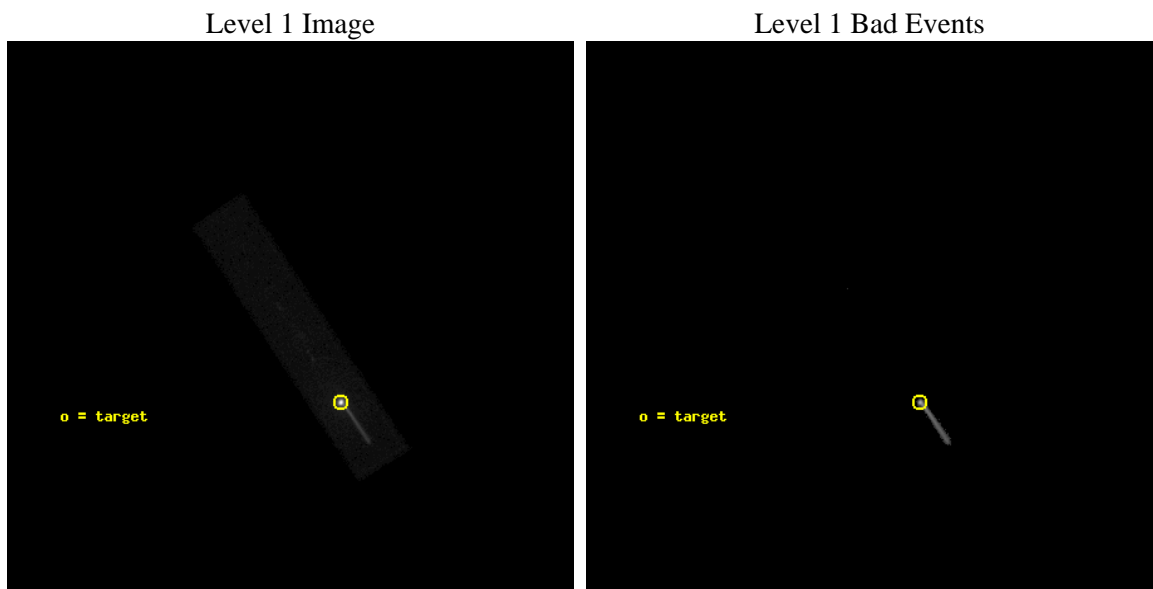
seq_num	290146	Sequence number
obs_id	2590	Observation id
title	AO3 CALIBRATION OBSERVATIONS OF VEGA	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	VEGA	Source name
ra_targ	279.235	Observer's specified target RA [deg]
dec_targ	38.783778	Observer's specified target Dec [deg]
ra_nom	279.35648432677	Nominal RA [deg]
dec_nom	38.92675621176	Nominal Dec [deg]
roll_nom	56.56130878539	Nominal Roll [deg]
revision	3	Processing version of data
ontime	3142.9063769281	[s]
livetime	2653.3036841541	Ontime multiplied by DTCOR
l2events	554605	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	8.4.5	Processing system revision	ontime	3142.9063769281	[s]
caldsver	4.5.2	&#160	l1events	646230	Number of level 1 events
date	2012-10-02T07:43:45	Date and time of file creation			
revision	3	Processing version of data			

### 2.1.3 Events

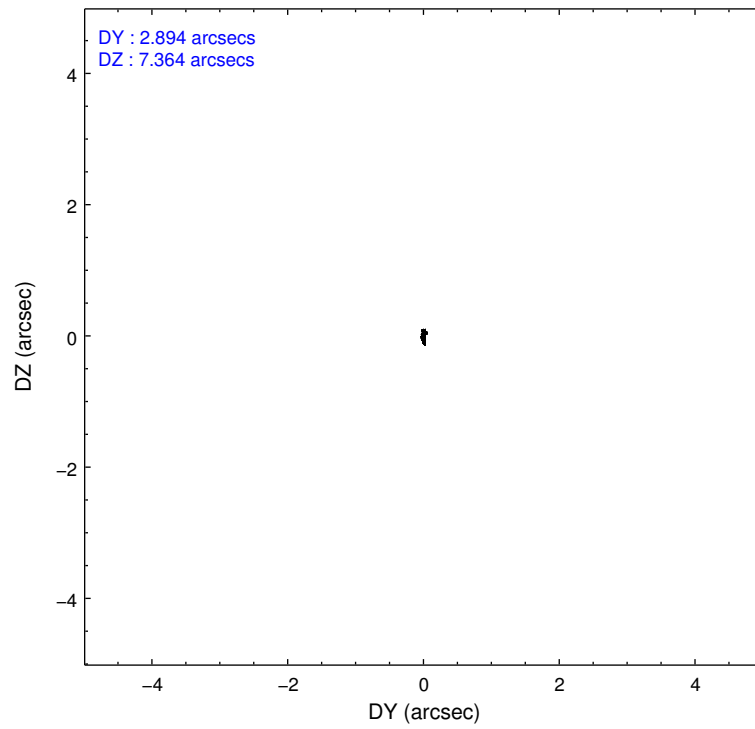
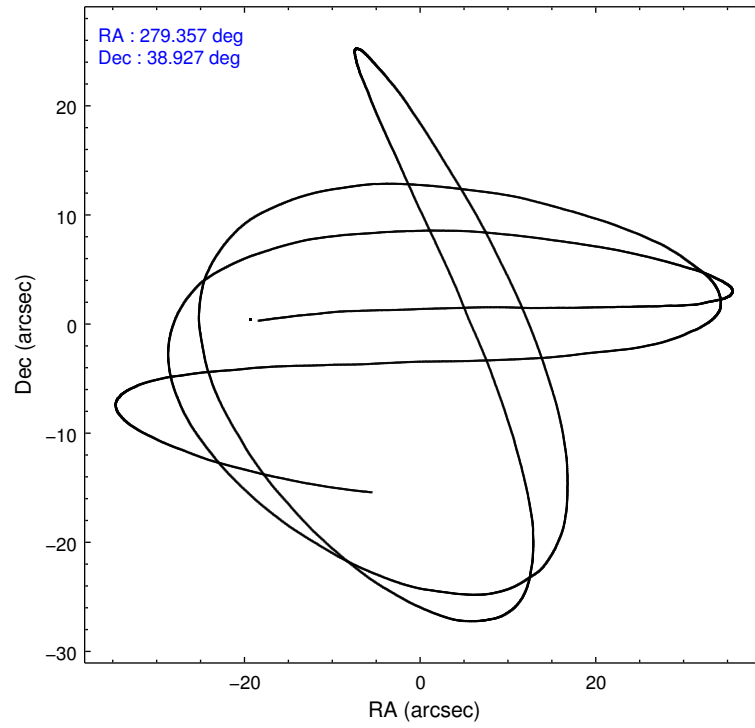
Level 1 Events

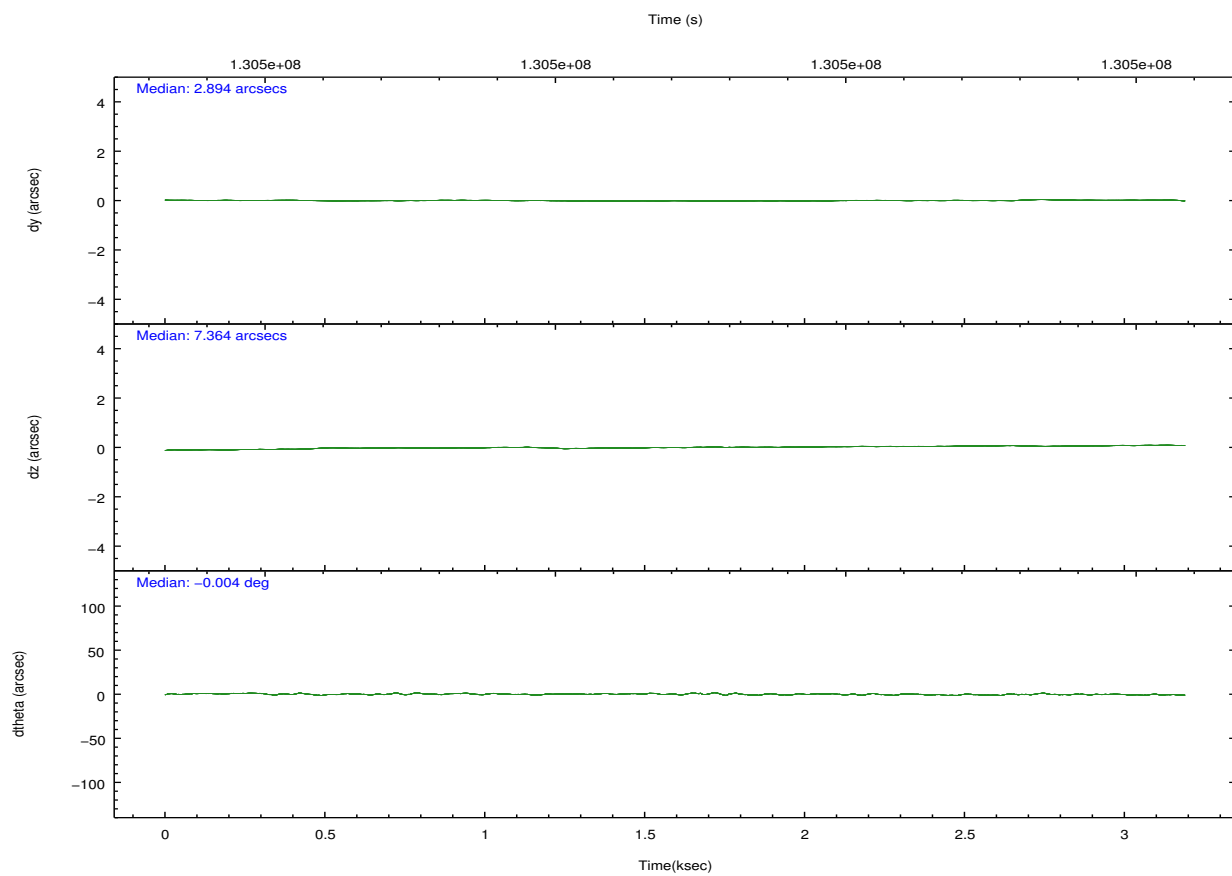
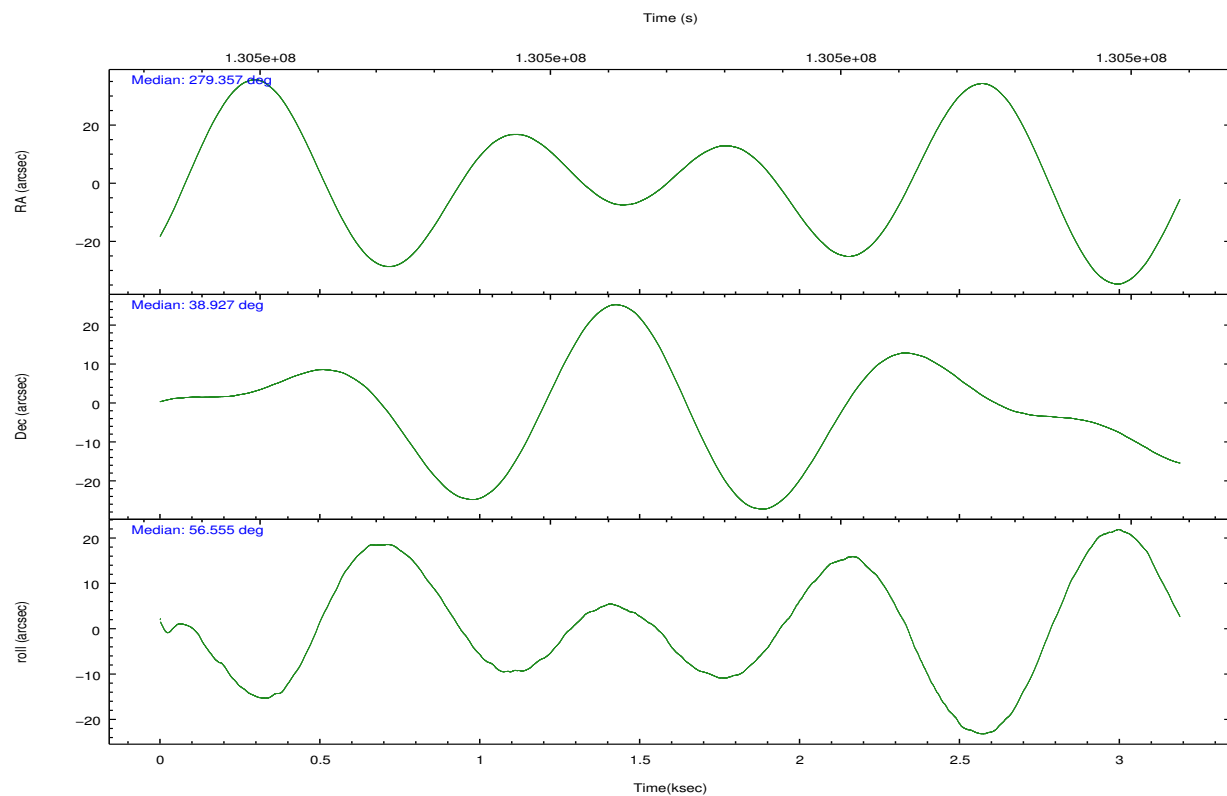
	<b>segment 1</b>	<b>segment 2</b>	<b>segment 3</b>
level 1 events	886	644508	836
rejected events	886	64991	836
rejected %	100%	10%	100%

## 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	279.356097	279.3564843267725			
[deg] Pointing Dec	38.898039	38.92675621176001			
[deg] Pointing Roll	56.494227	56.56130878538979			
[s] Window start time (MET)	128908864.184000	128908864.184000			
[s] Window stop time (MET)	131241664.184000	131241664.184000			
[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)	130501005.184000	130500629.24634			
Observation start date	2002-02-19T10:15:41	2002-02-19T10:10:29			
[s] Observation end time (MET)	130504005.184000	130504139.35898			
Observation end date	2002-02-19T11:05:41	2002-02-19T11:08:59			

## 2.3 Aspect





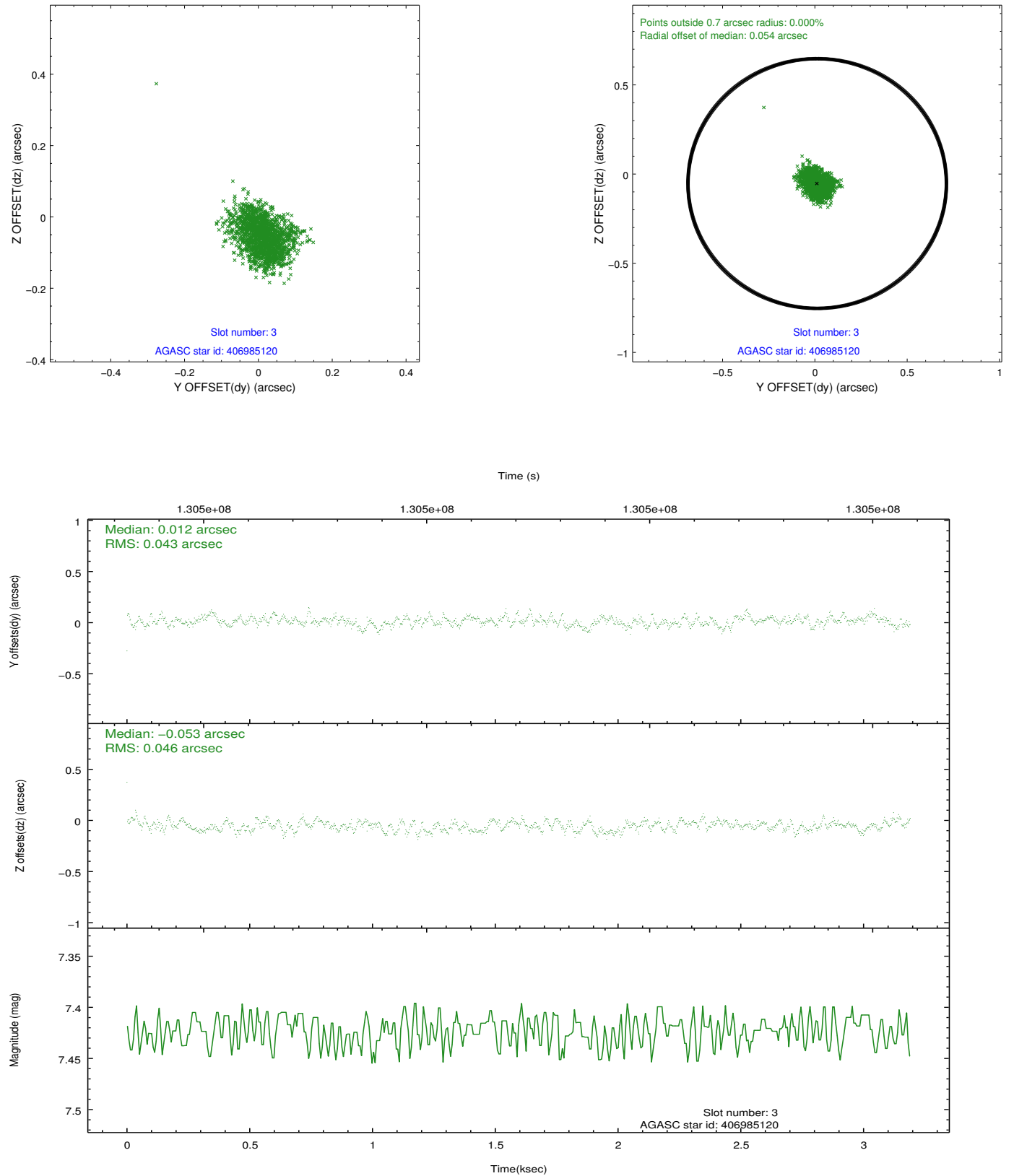
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-S-1	6.96	778	0.138	-0.078	0.008	0.013	0.000000	0.000000	-1156.92	-455.89
1	FID	HRC-S-2	6.97	778	0.100	-0.091	0.009	0.015	0.000000	0.000000	1241.23	-449.11
2	FID	HRC-S-3	6.99	778	0.153	-0.133	0.008	0.014	0.000000	0.000000	-1158.04	573.01
3	GUIDE	406985120	7.42	1557	0.012	-0.053	0.068	0.103	278.839732	38.894839	-805.34	1202.15
4	GUIDE	406989616	8.23	1557	0.080	0.056	0.075	0.120	279.202881	38.520843	-1370.96	-388.87
5	GUIDE	407521232	8.66	1557	-0.024	-0.057	0.068	0.111	279.628883	39.431715	2020.33	428.64
6	GUIDE	406985256	8.62	1557	0.036	-0.042	0.060	0.100	278.693335	38.842203	-1187.03	1442.44
7	GUIDE	406979352	9.26	1554	-0.102	0.102	0.081	0.129	279.968297	39.230258	1943.03	-759.15

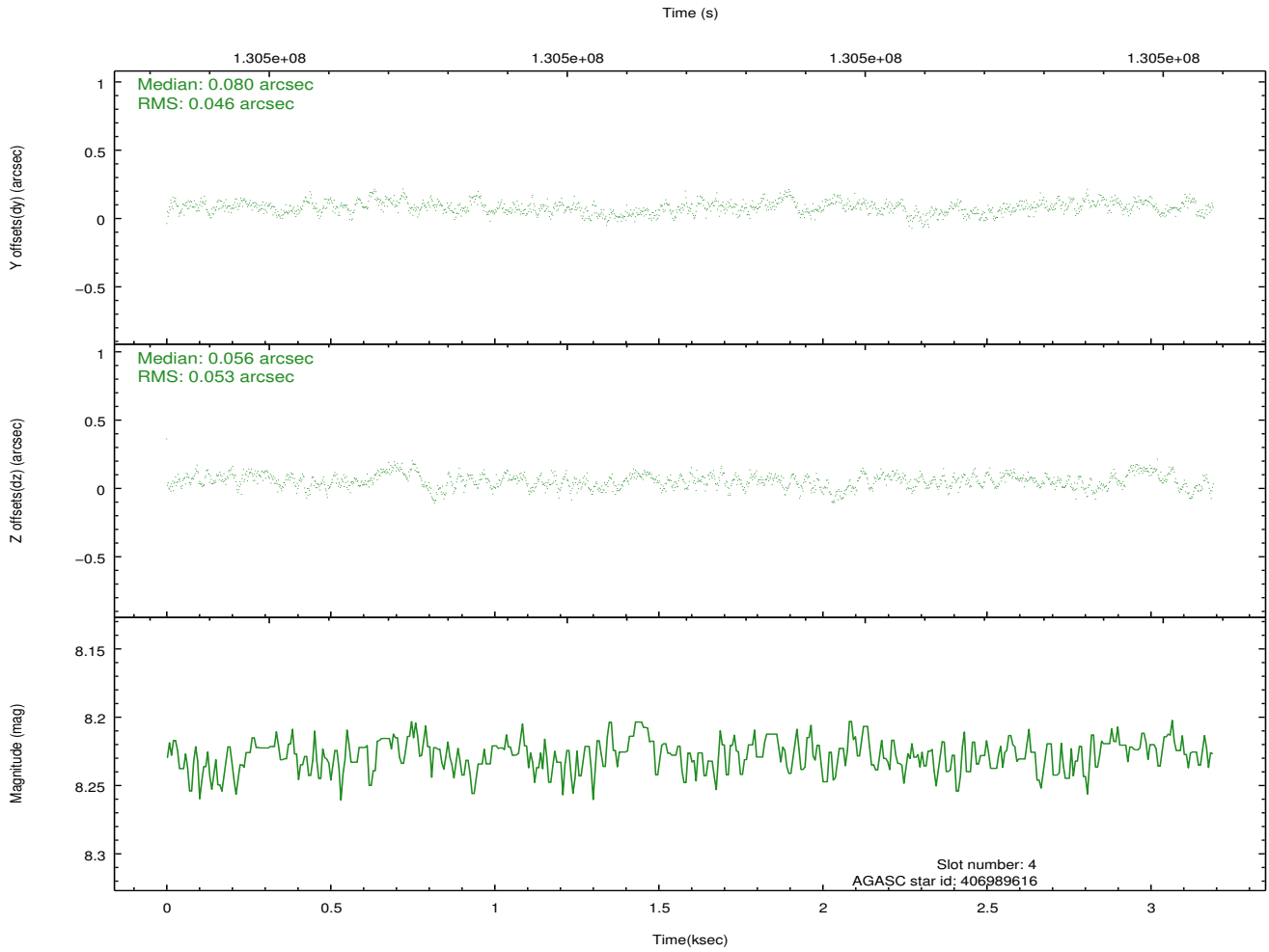
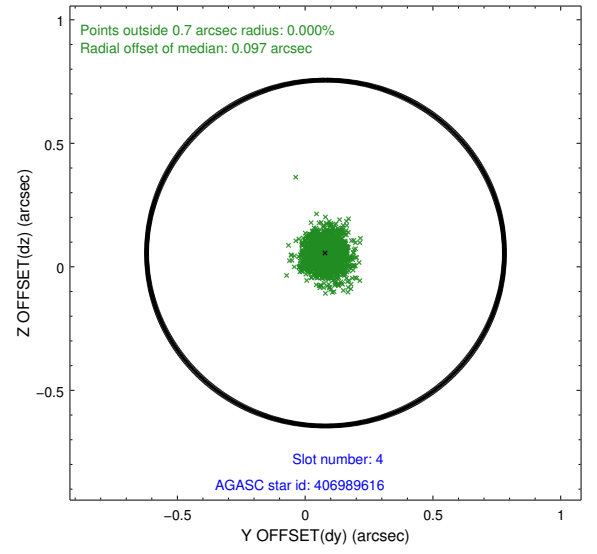
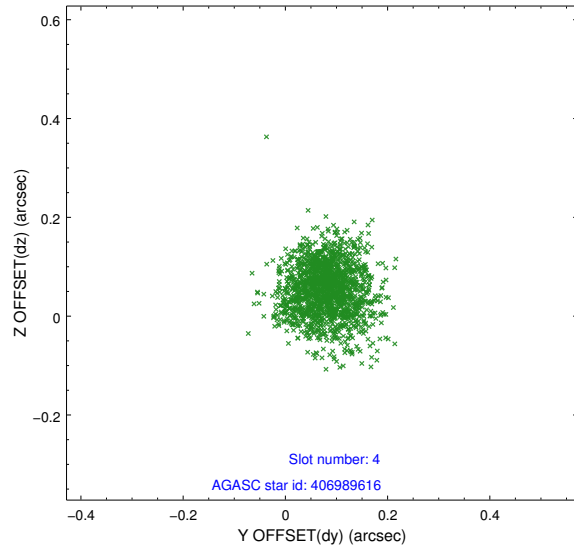


## 2.4 Star Slots

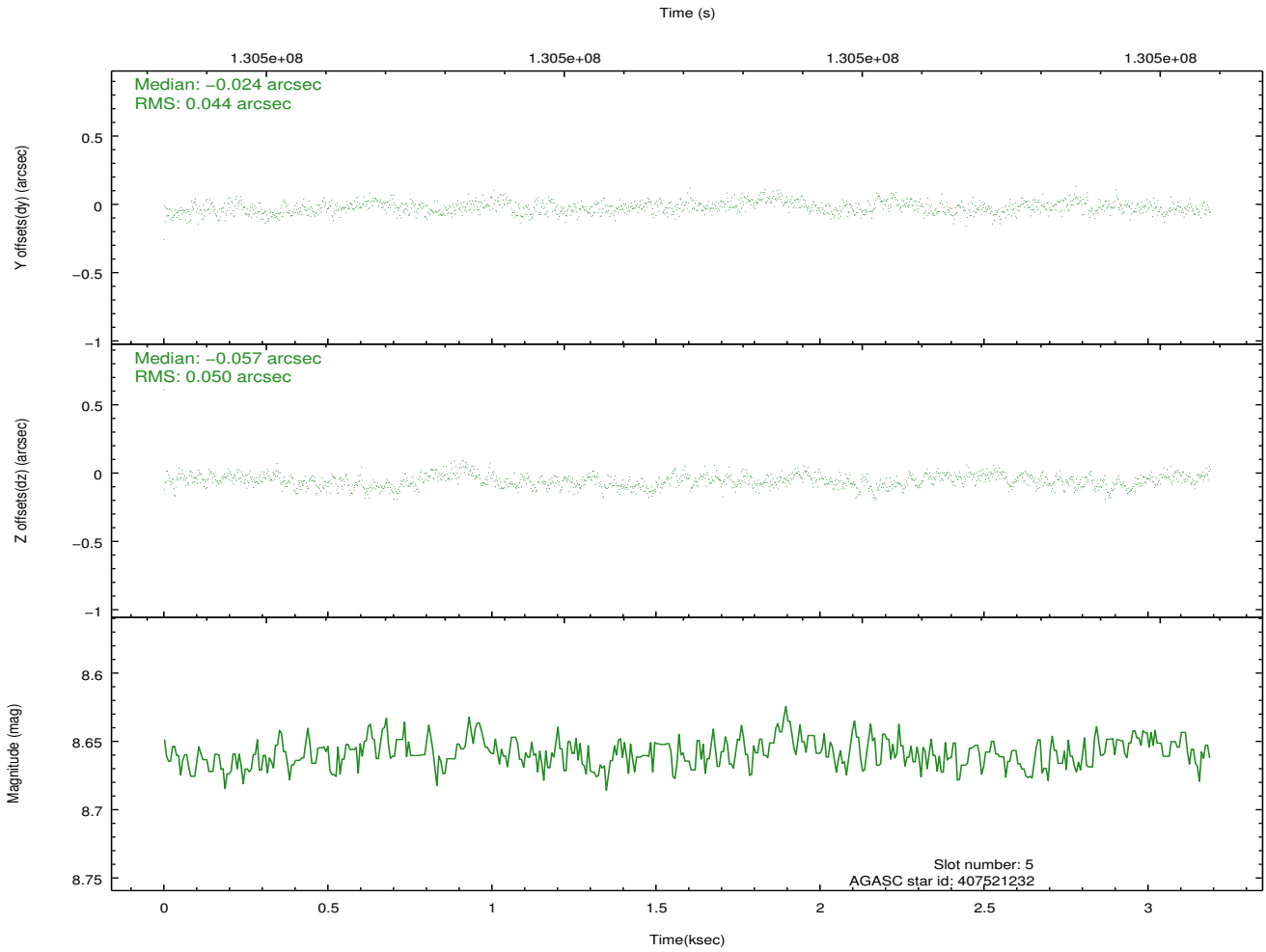
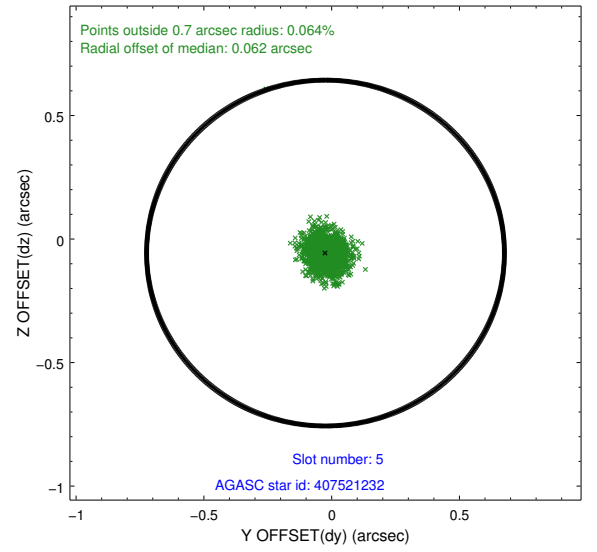
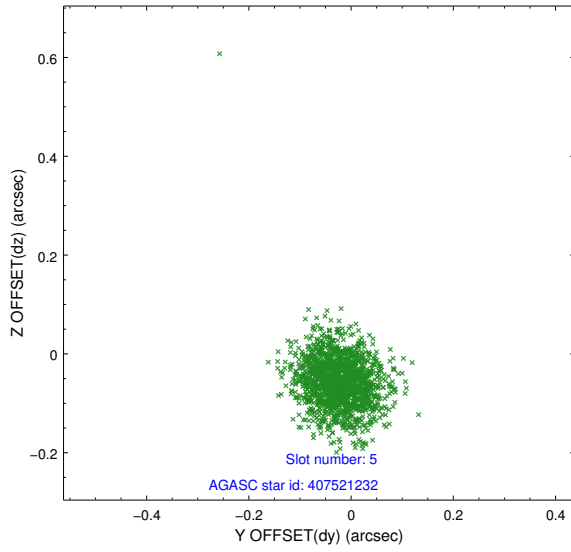
### 2.4.1 Slot 3



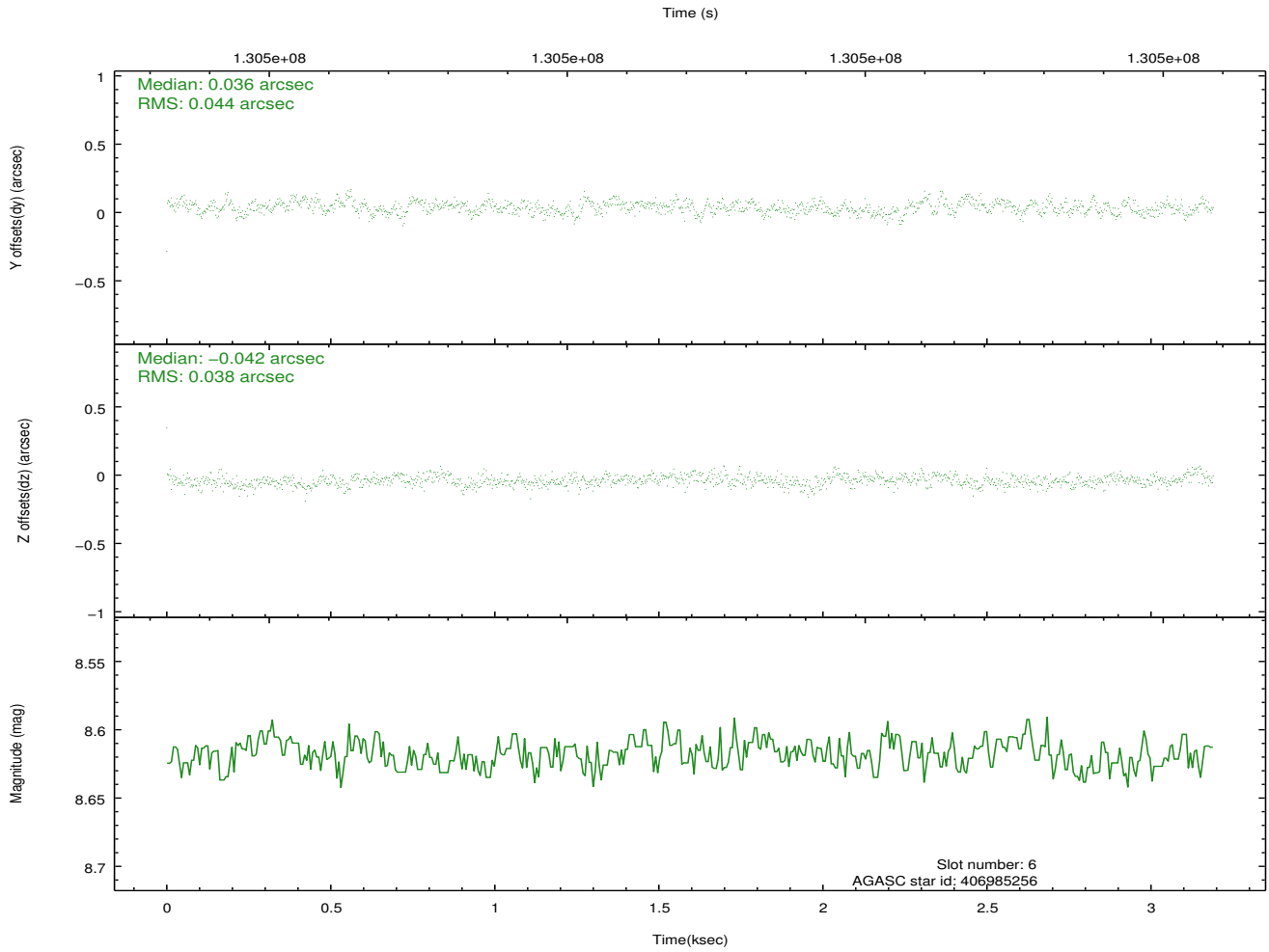
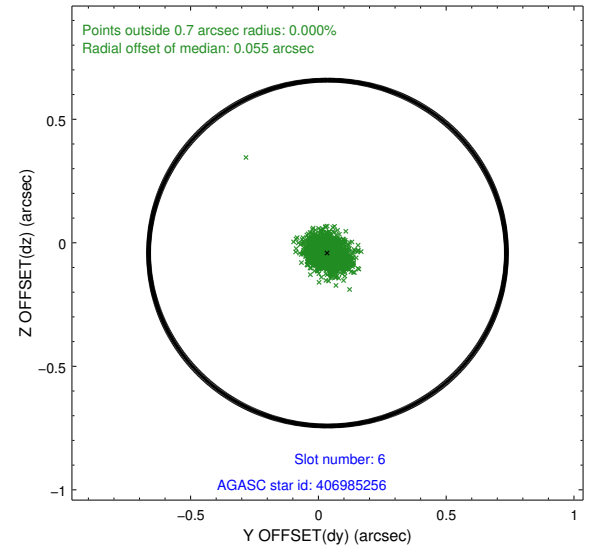
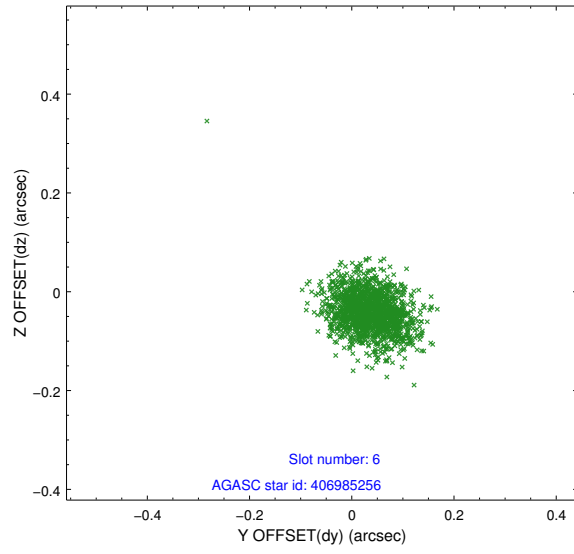
## 2.4.2 Slot 4



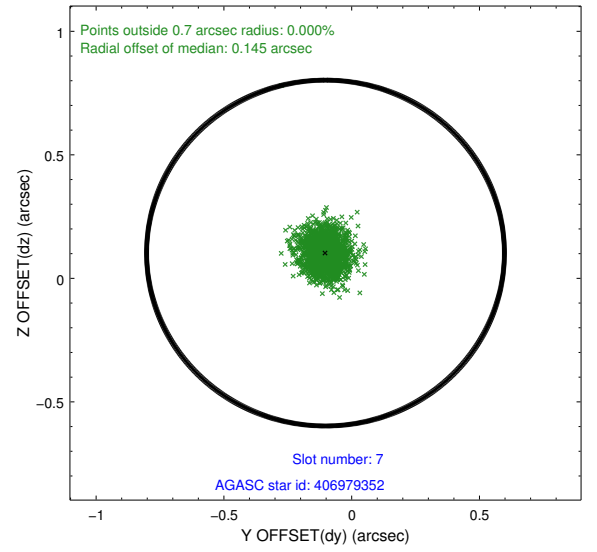
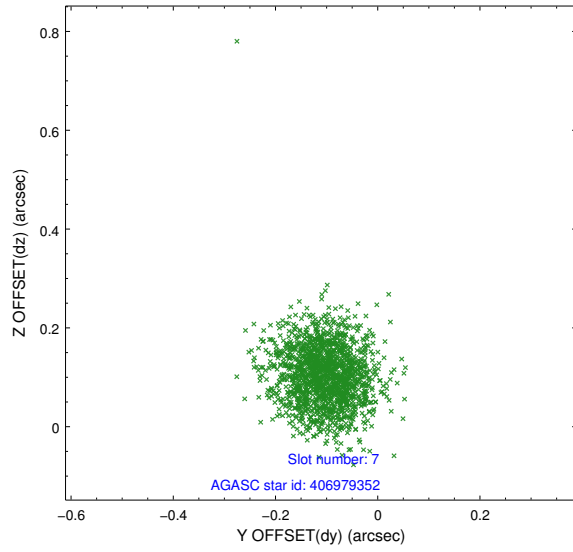
### 2.4.3 Slot 5



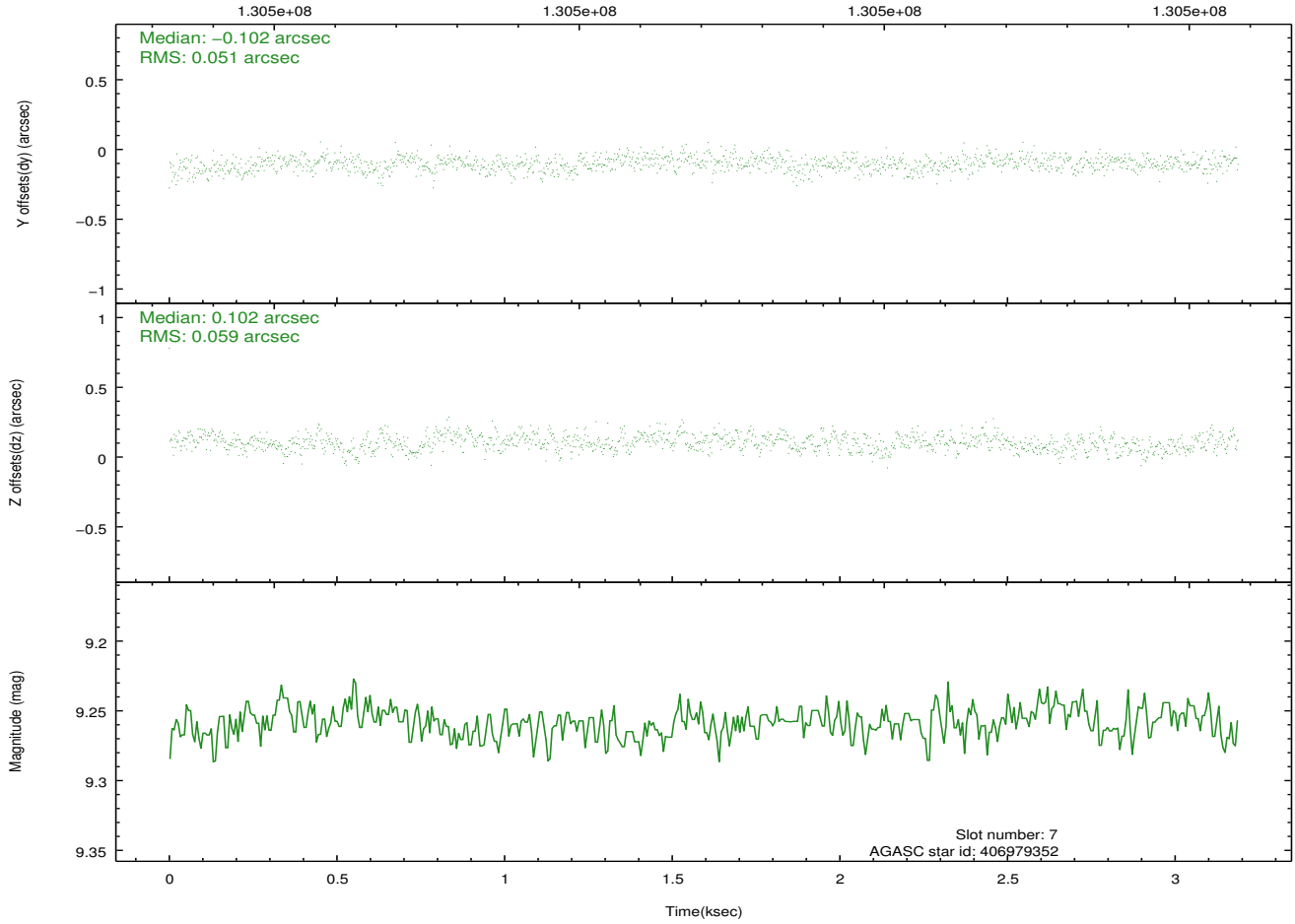
## 2.4.4 Slot 6



## 2.4.5 Slot 7

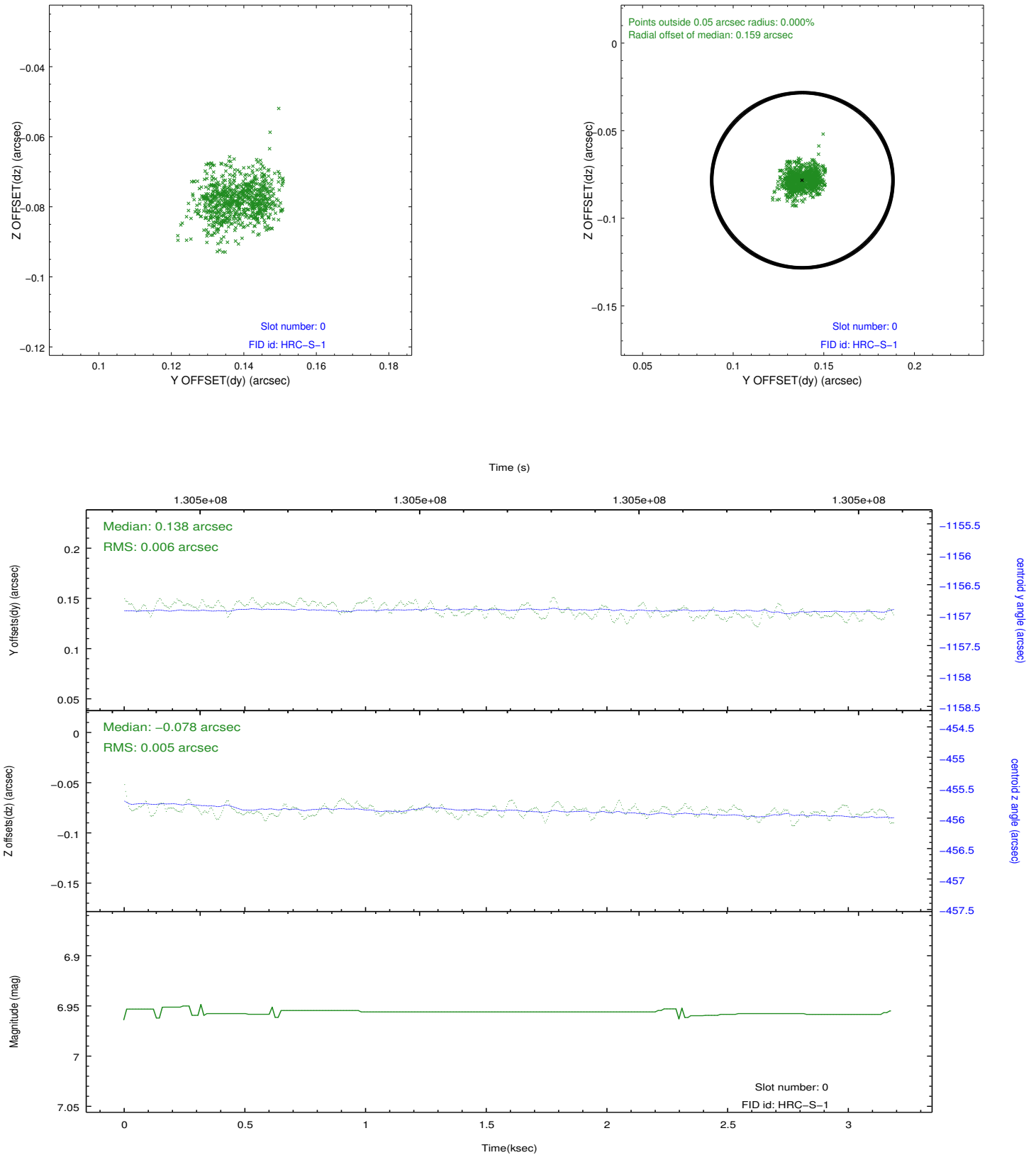


Time (s)

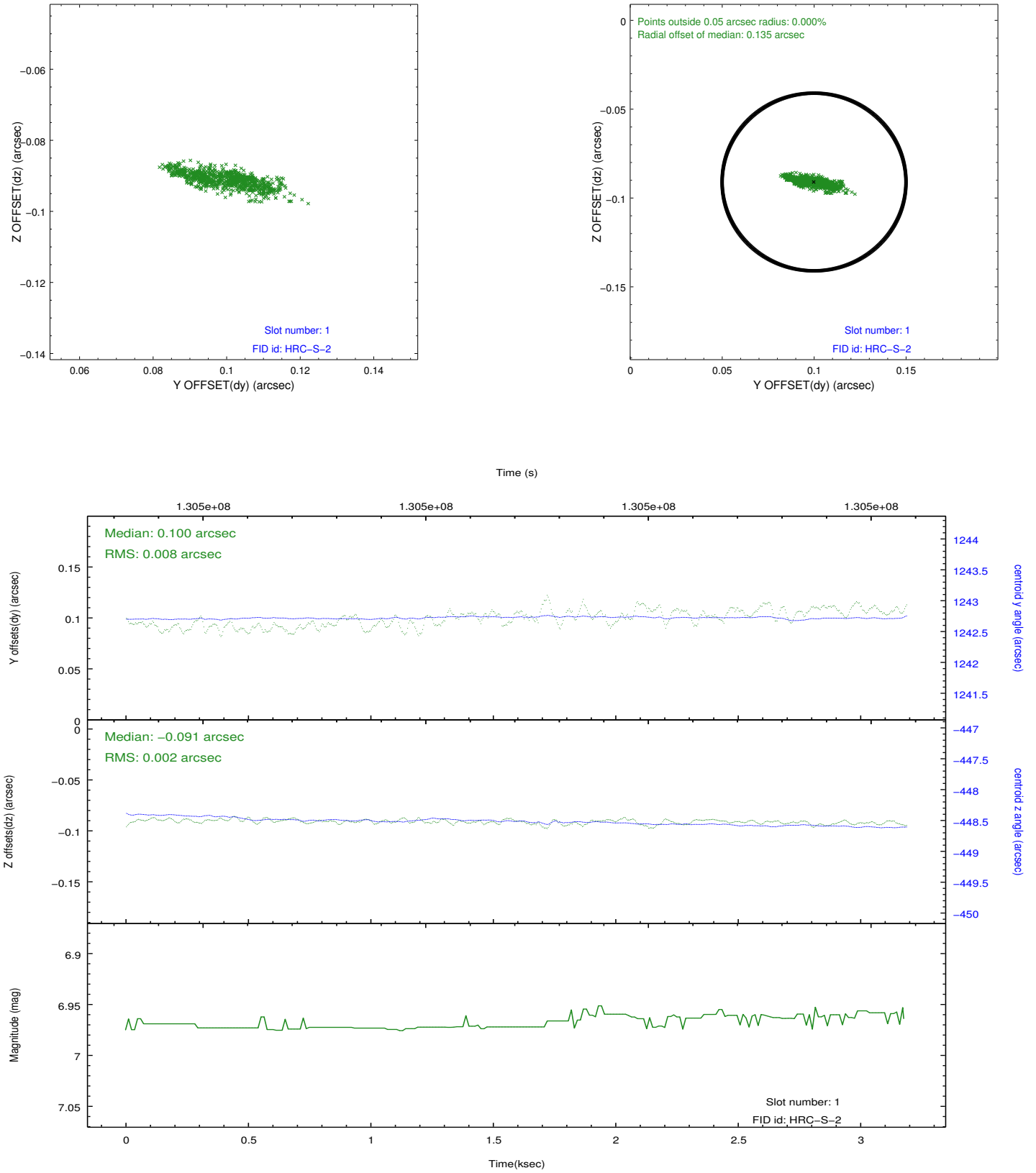


## 2.5 FID Slots

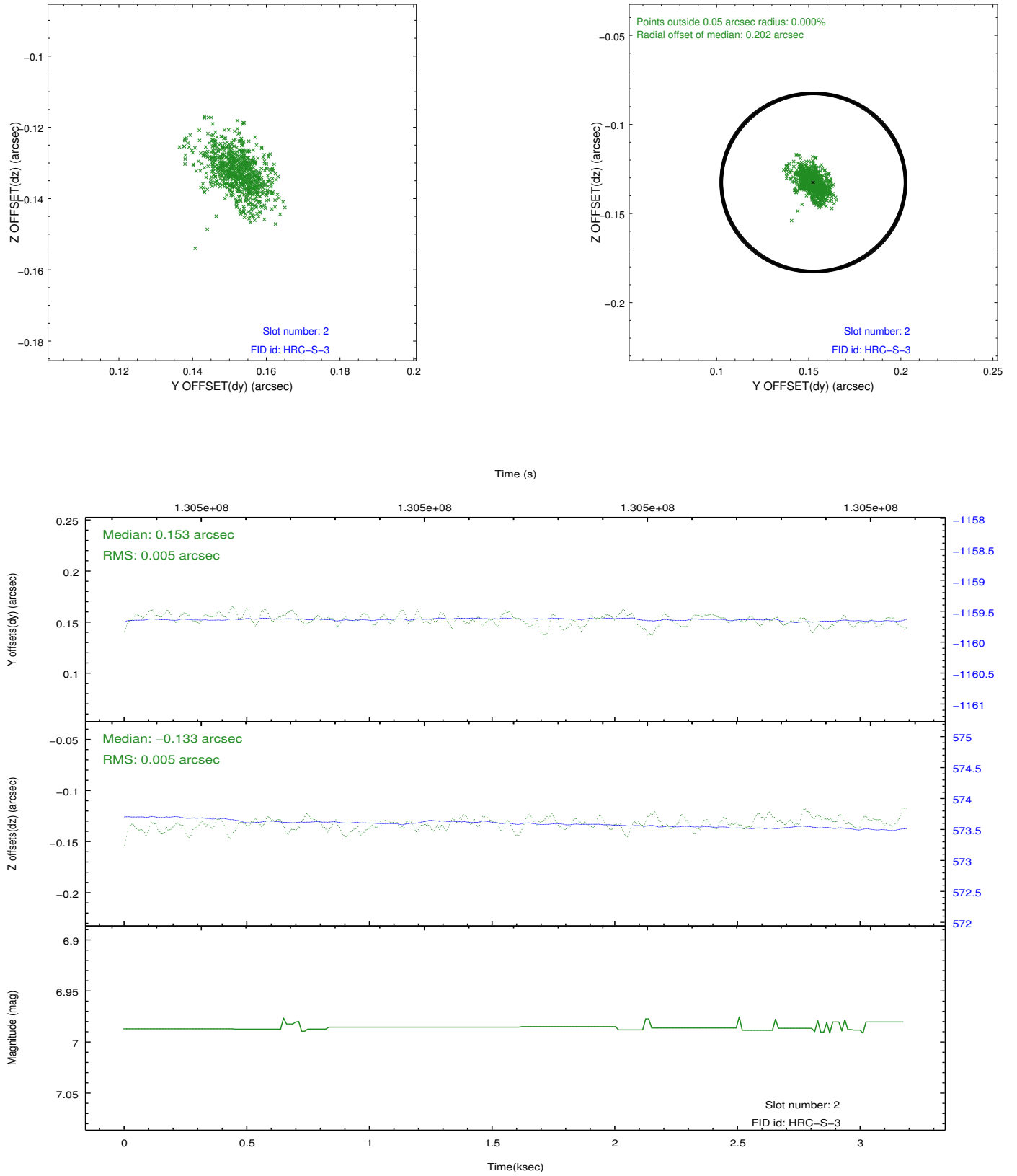
### 2.5.1 Slot 0



## 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)	2012.10.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.188

## A.2 Comments

Charge time for this ObsId remains at previous value of 3.188 ks although with the current processing the charge time would have been 3.14 ksec.

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