

# V&V Reference Report

## L2 ASCDS Version : 10.6

Observation 19844 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Jun 25 2017

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# 1 Front

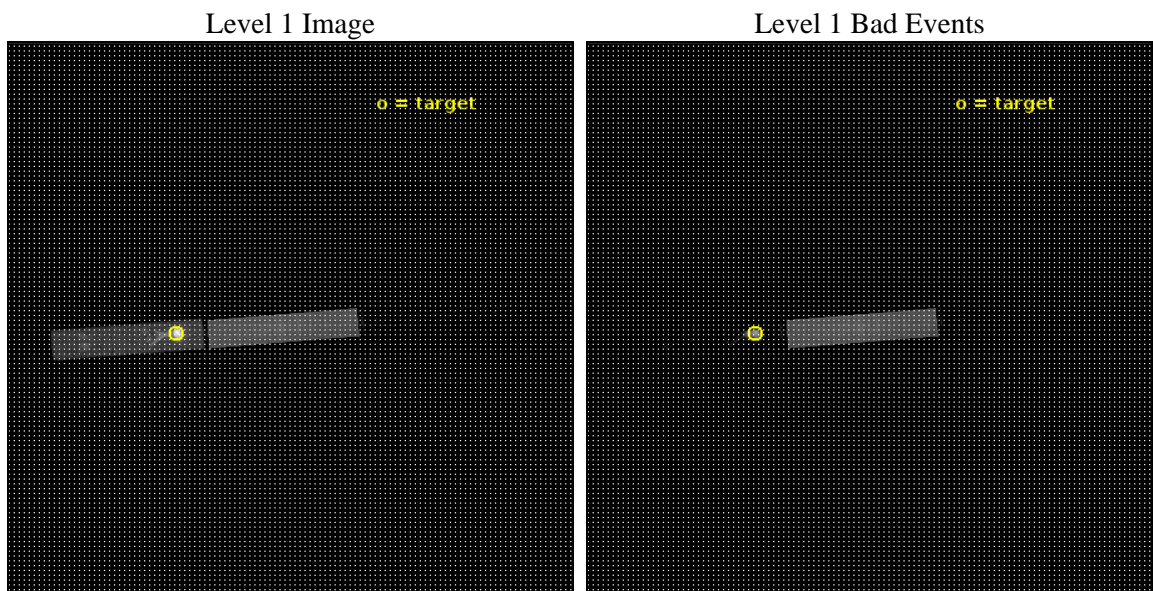
seq_num	291361	Sequence number
obs_id	19844	Observation id
title	AO-18 Measurements of the optical/UV Transmission of the HRC Filters.	Proposal title
observer	CXC Calibration	Principal investigator
object	Vega	Source name
ra_targ	279.235833	Observer's specified target RA [deg]
dec_targ	38.78475	Observer's specified target Dec [deg]
ra_nom	278.69425926118	Nominal RA [deg]
dec_nom	38.816214346525	Nominal Dec [deg]
roll_nom	175.1563363287	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1122.6313154697	[s]
liveltime	489.73926885261	Ontime multiplied by DTCOR
l2events	199513	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	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	1122.6313154697	[s]
caldsver	4.7.5	&#160	l1events	321203	Number of level 1 events
date	2017-06-25T13:44:17	Date and time of file creation			
revision	1	Processing version of data			

### 2.1.3 Events

Level 1 Events

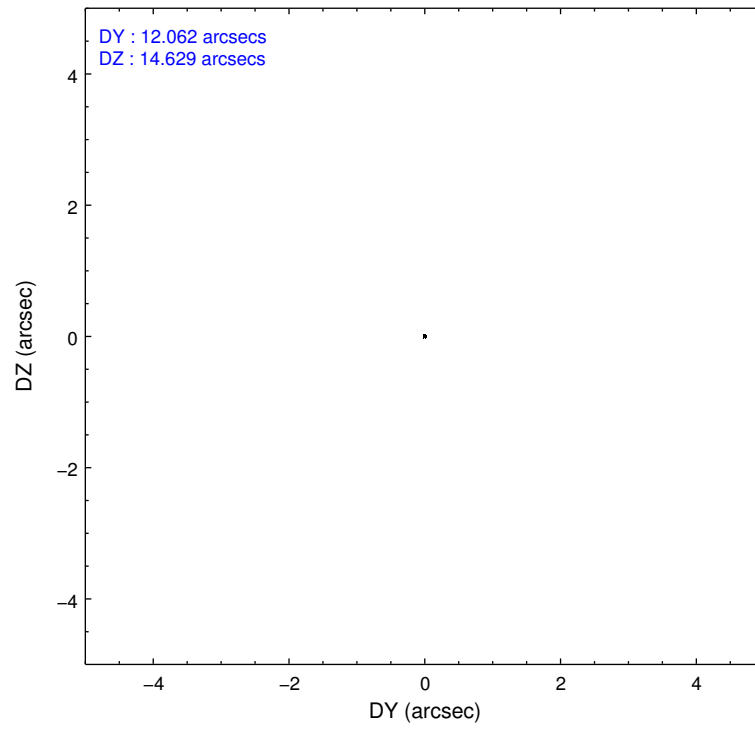
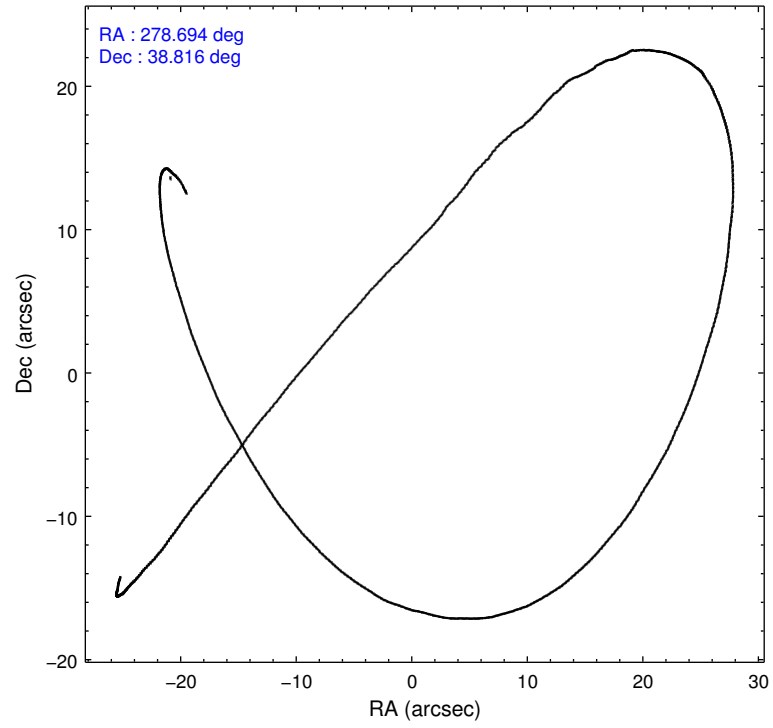
	<b>segment 1</b>	<b>segment 2</b>	<b>segment 3</b>
level 1 events	231232	89575	396
rejected events	24239	89513	396
rejected %	10%	99%	100%

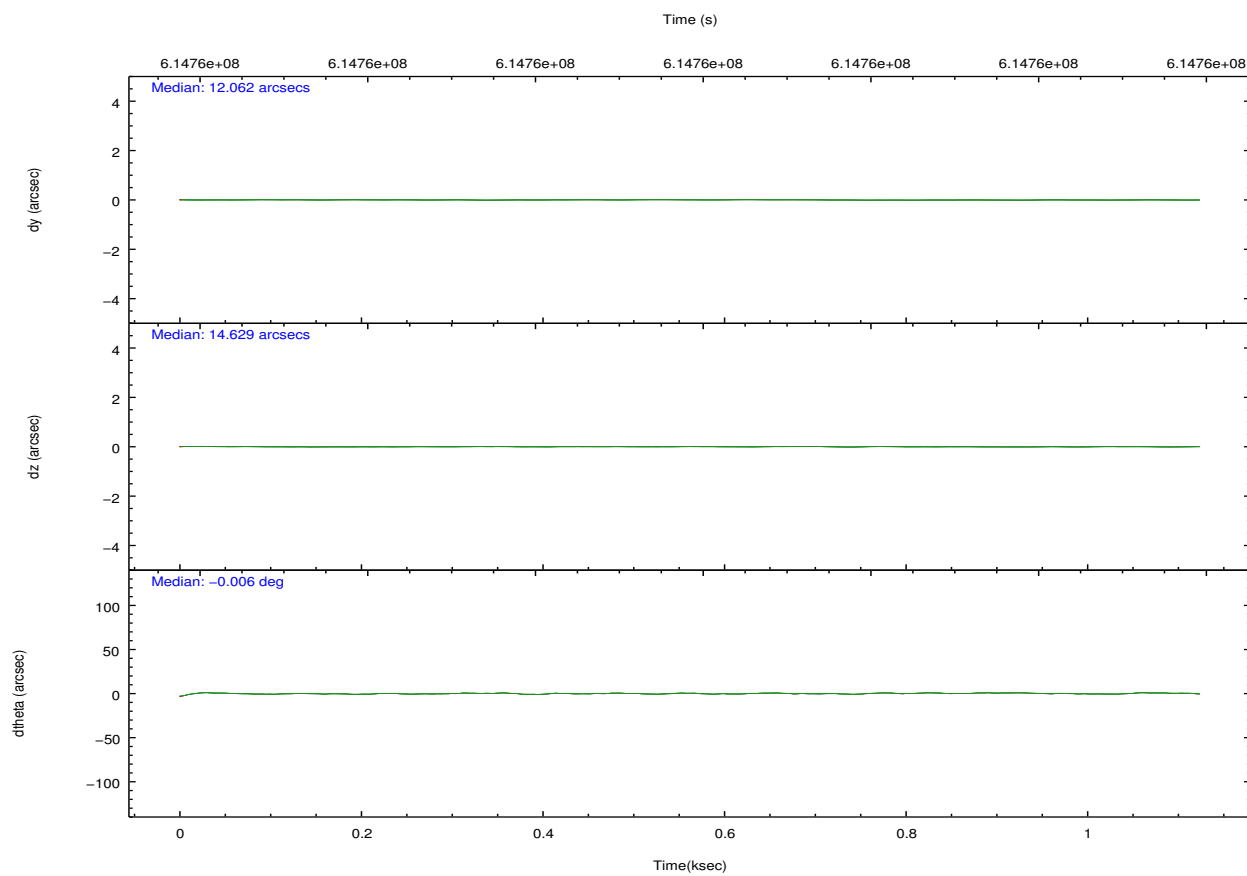
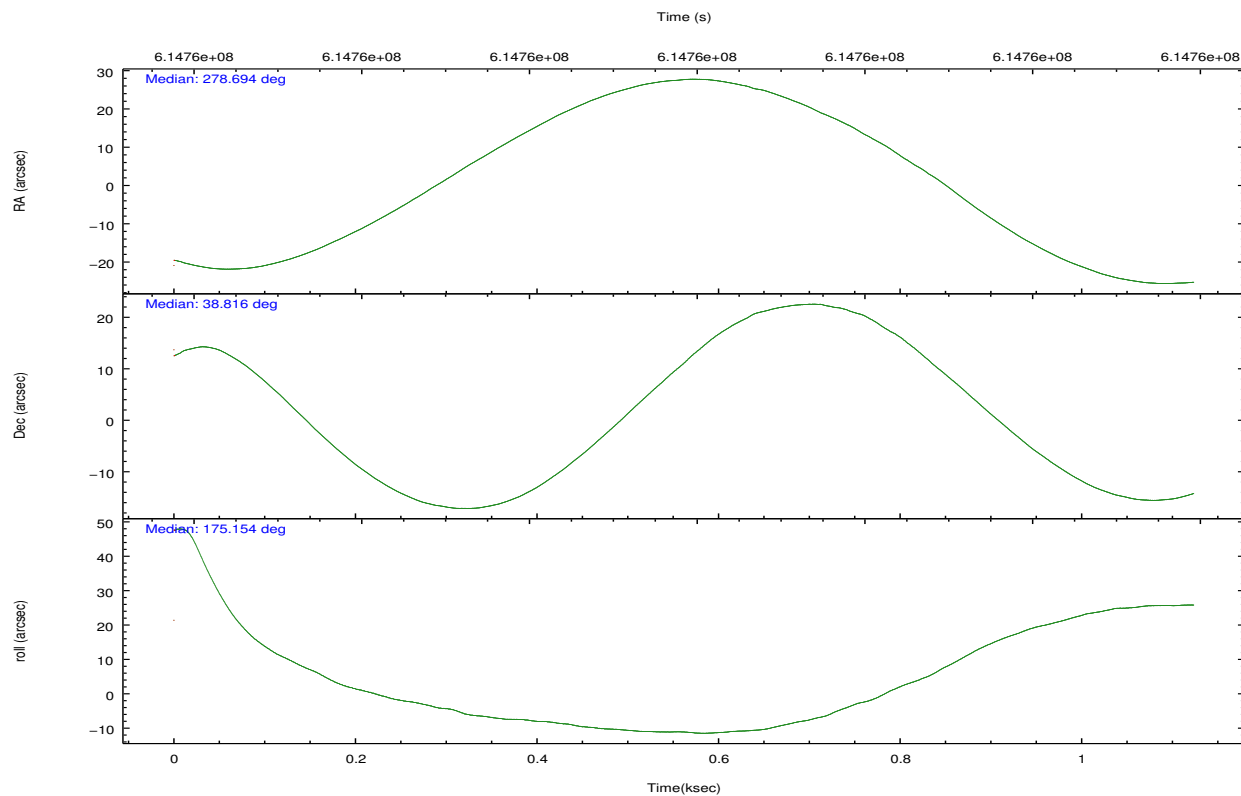
## 2.2 Compared Parameters

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	278.727311	278.6942592611825
[deg] Pointing Dec	38.830589	38.81621434652509
[deg] Pointing Roll	175.067746	175.1563363286976
[s] Window start time (MET)	612662469.184000	612662469.184000
[s] Window stop time (MET)	617846469.184000	617846469.184000
[mm] SIM focus pos	-1.533336	-1.526339935833849
[mm] SIM defocus	7.710433287538843e-07	0.006996703570447904
[mm] SIM translation stage pos	250.455976	250.466033080201
[mm] SIM translation stage offset	0	-0.01005468664627074
[s] Observation start time (MET)	614757556.184000	614756760.50477
Observation start date	2017-06-25T05:58:07	2017-06-25T05:46:00
[s] Observation end time (MET)	614758556.184000	614760014.8799599
Observation end date	2017-06-25T06:14:47	2017-06-25T06:40:14

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

## 2.3 Aspect





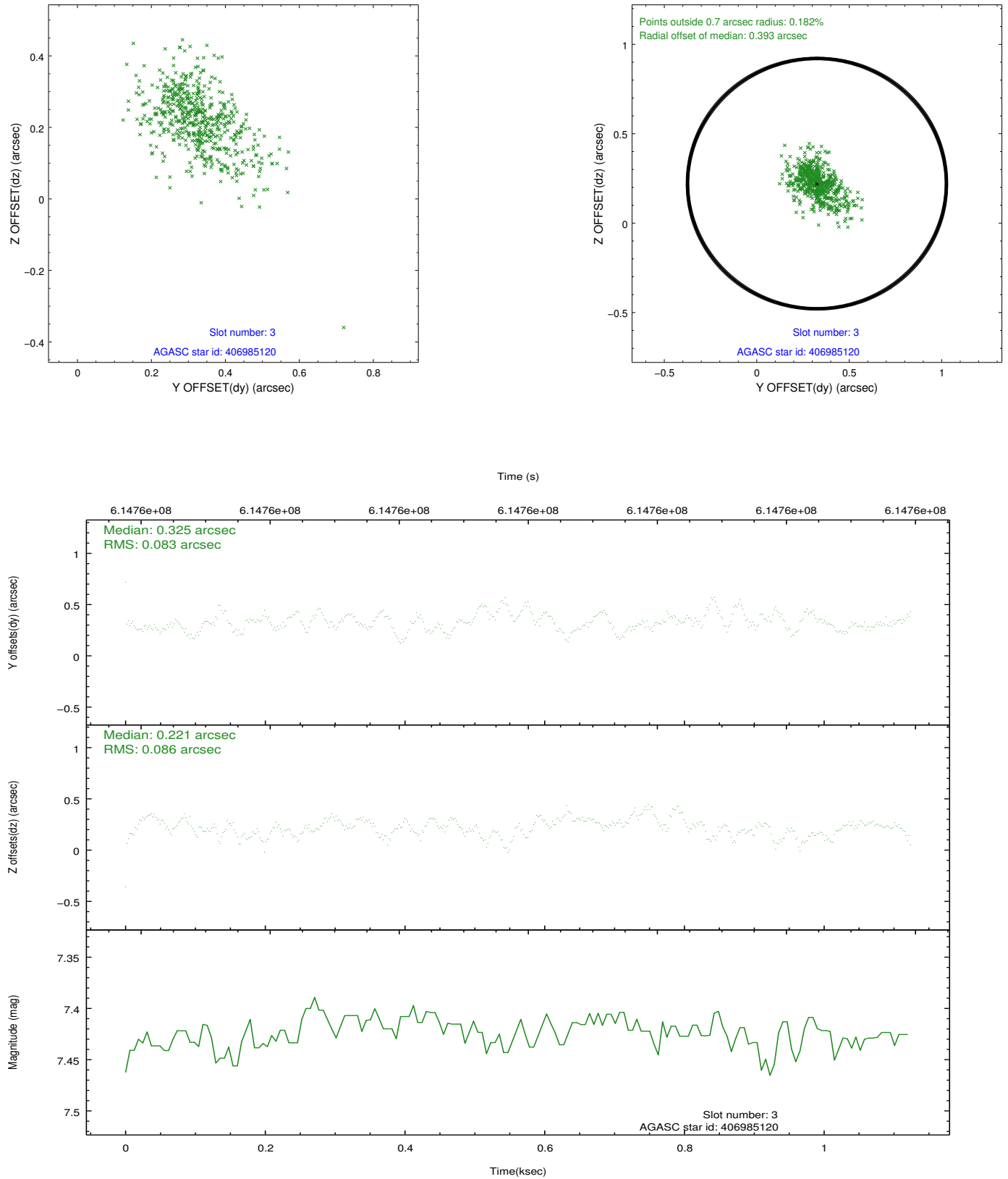
### Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		HRC-S-1	7.01	275	-0.016	-0.192	0.006	0.010	0.000000	0.000000	-1166.44	-463.54
1	FID		HRC-S-2	6.99	275	0.384	-0.146	0.005	0.009	0.000000	0.000000	1229.37	-457.72
2	FID		HRC-S-3	7.01	275	0.023	0.035	0.007	0.011	0.000000	0.000000	-1164.70	564.54
3	GUIDE	used	406985120	7.42	549	0.325	0.221	0.118	0.210	278.839732	38.894839	-294.01	-260.61
4	GUIDE	used	406987272	6.89	549	-0.409	-0.348	0.106	0.183	278.536588	38.437504	413.41	1450.76
5	GUIDE	used	406989616	8.20	549	0.097	-0.171	0.107	0.157	279.202881	38.520843	-1429.68	991.69
6	GUIDE	used	406987656	8.66	548	-0.278	-0.212	0.117	0.203	277.865333	38.378958	2281.78	1816.73
7	GUIDE	used	407521232	8.59	548	0.249	0.519	0.109	0.177	279.628883	39.431715	-2306.53	-2383.31

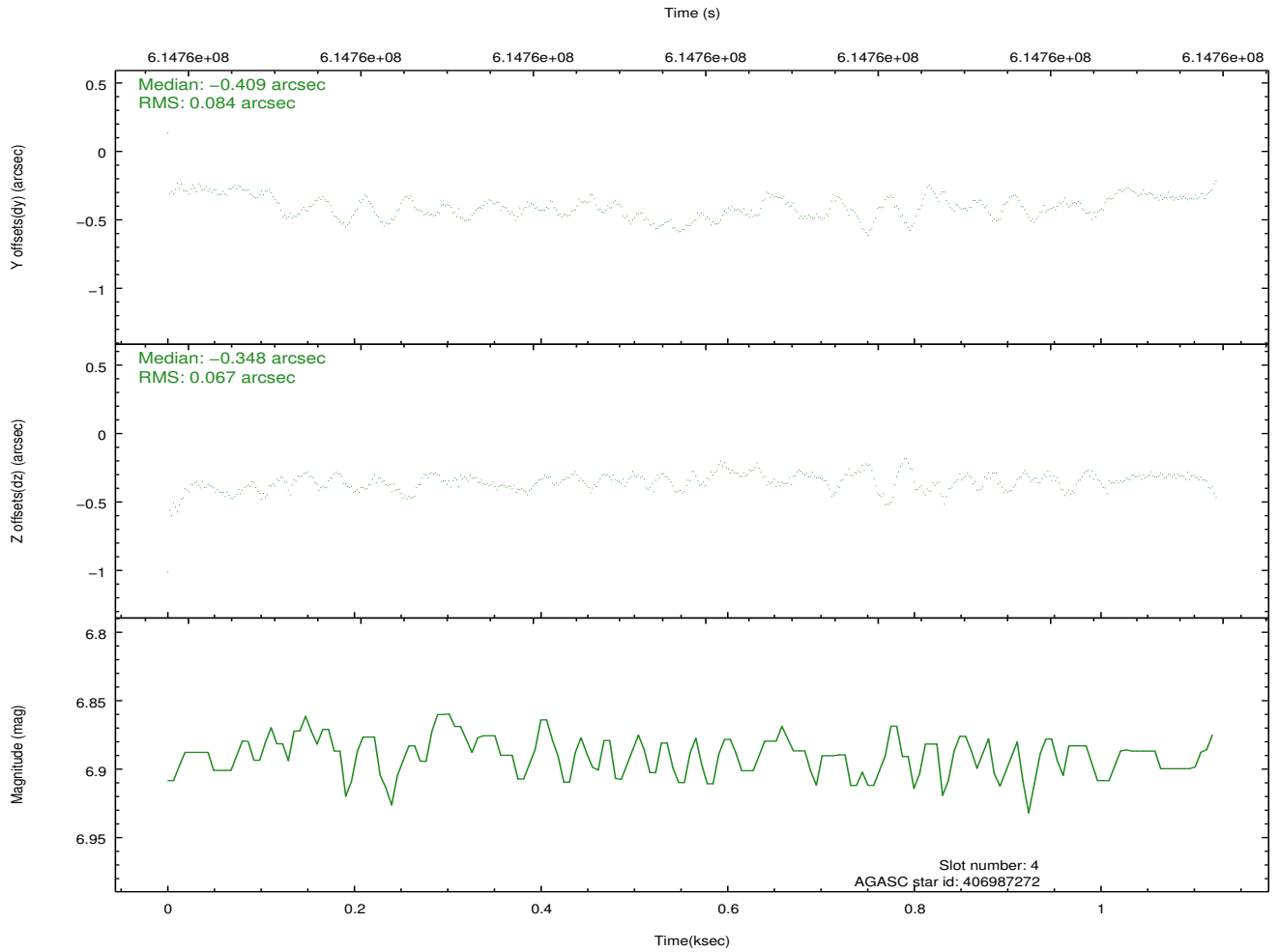
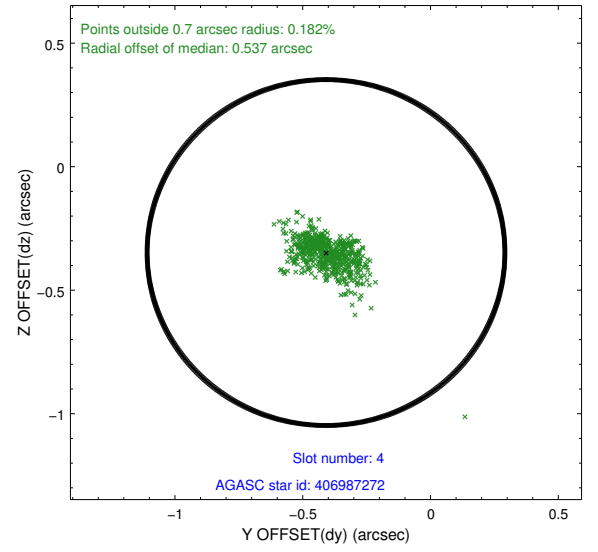
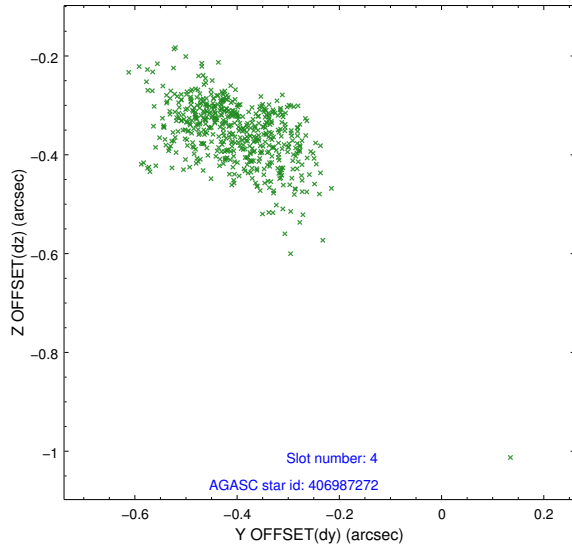


## 2.4 Star Slots

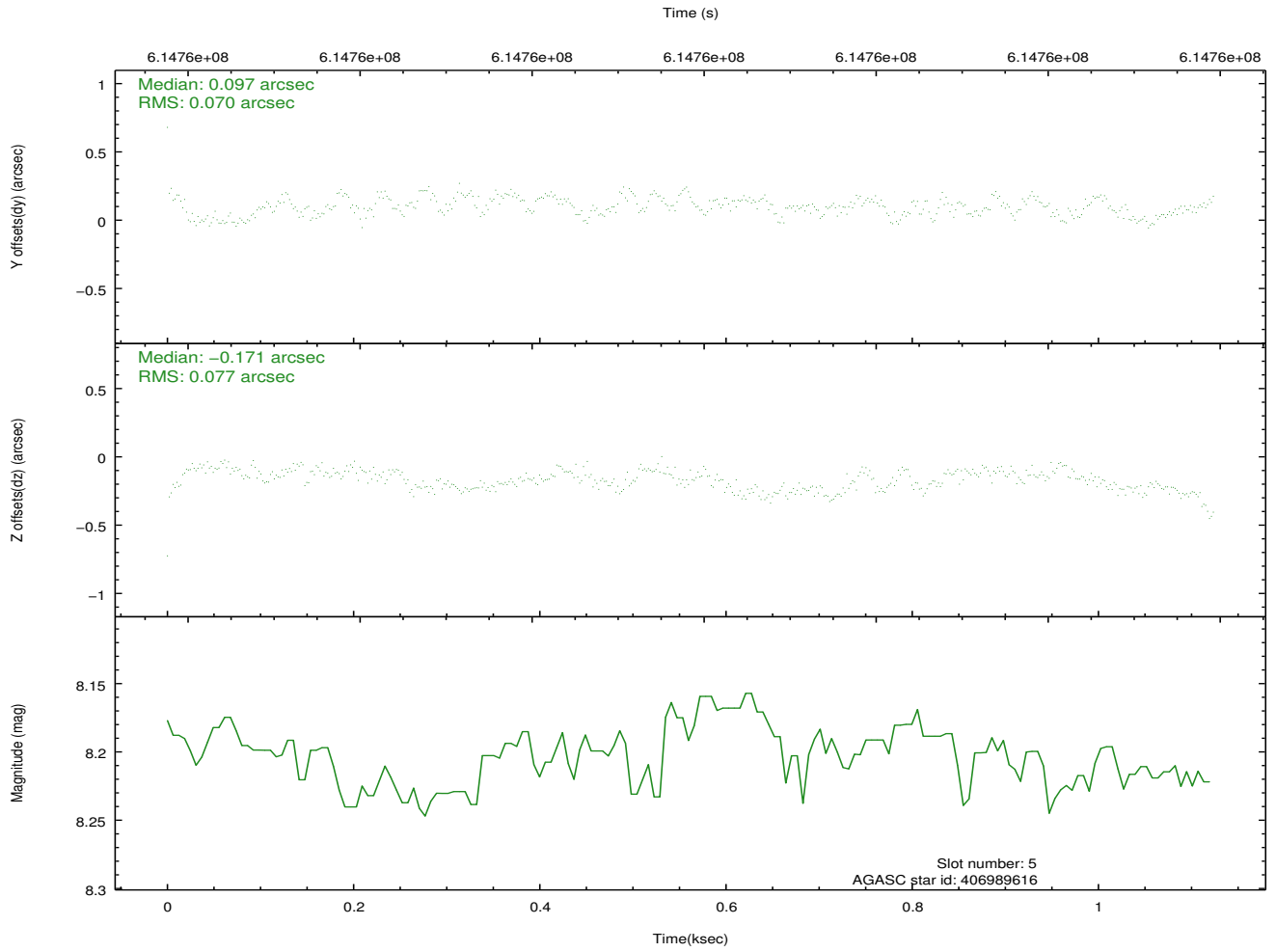
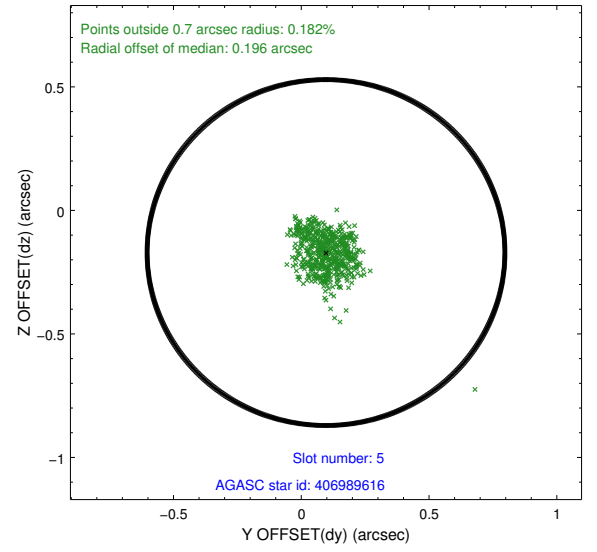
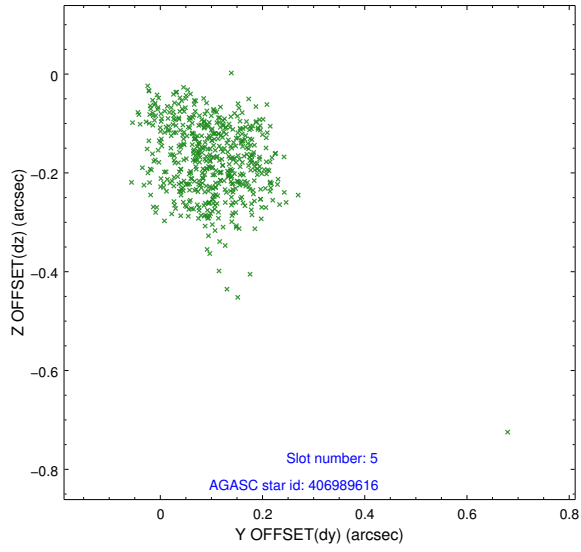
### 2.4.1 Slot 3



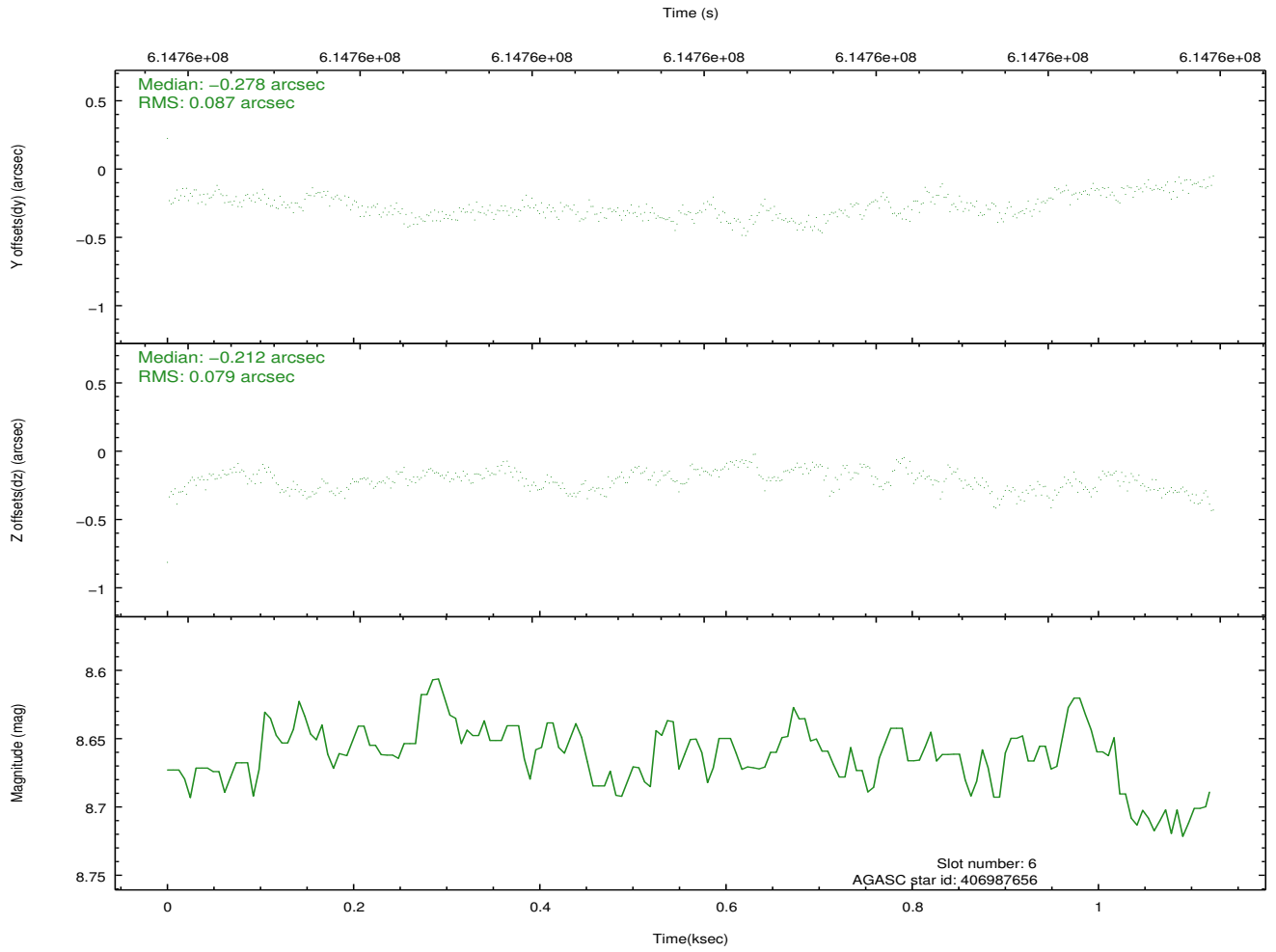
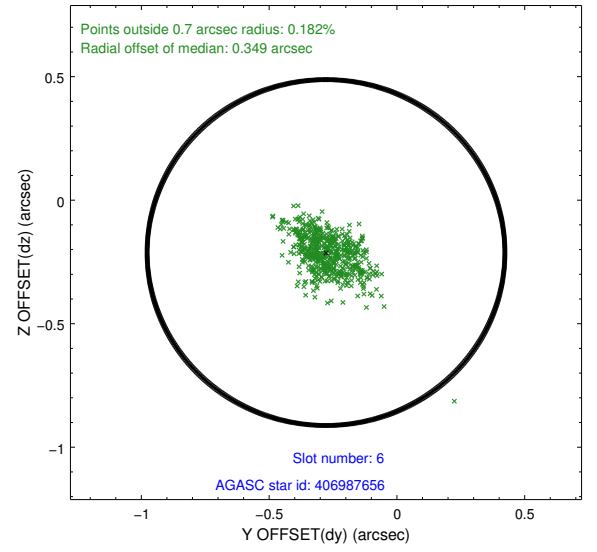
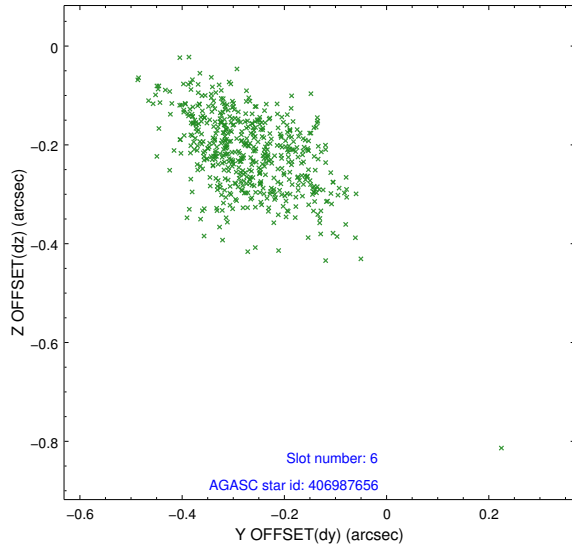
## 2.4.2 Slot 4



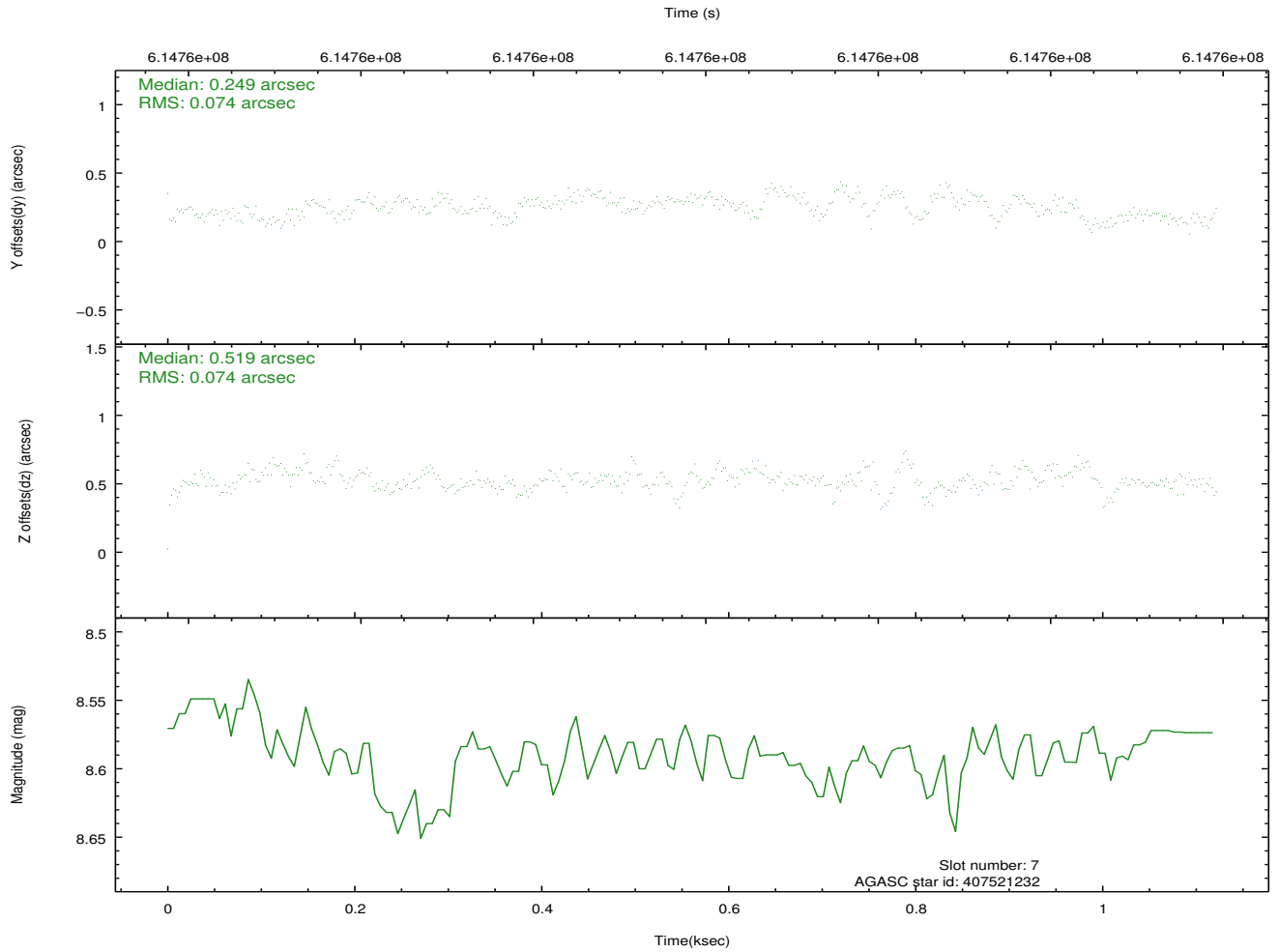
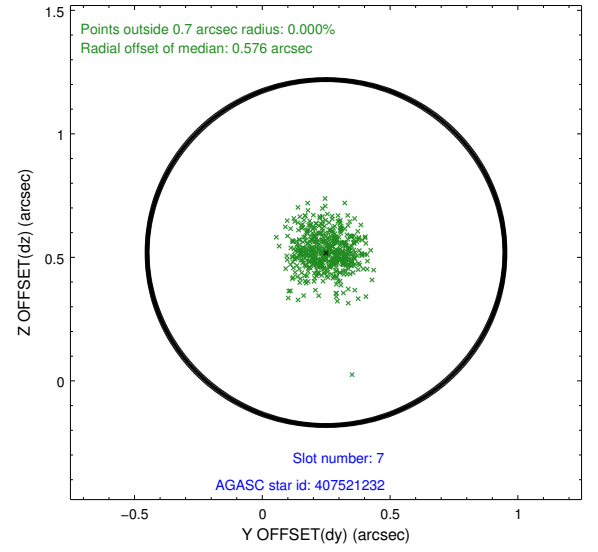
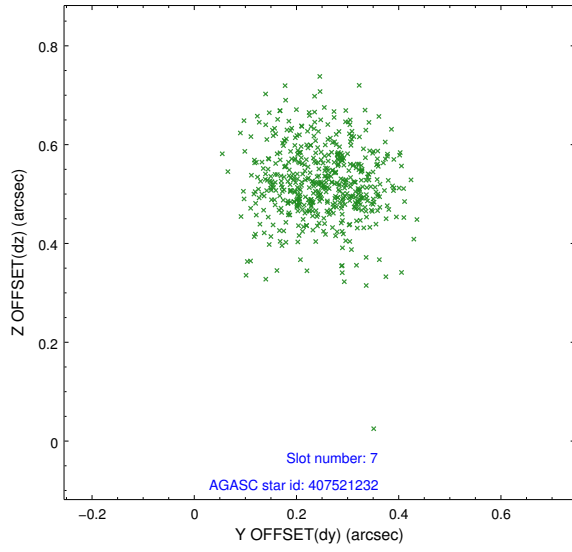
### 2.4.3 Slot 5



## 2.4.4 Slot 6

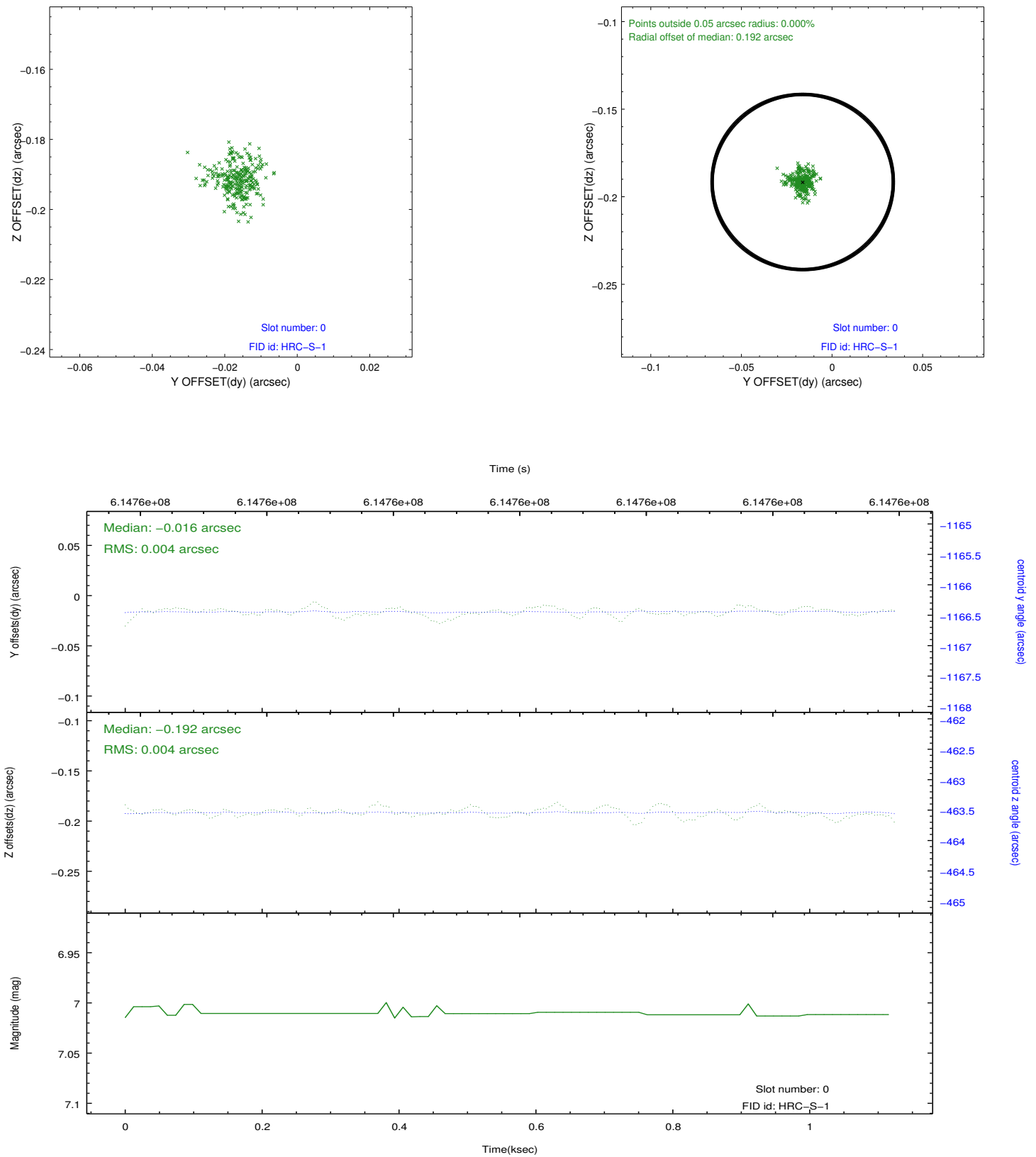


## 2.4.5 Slot 7

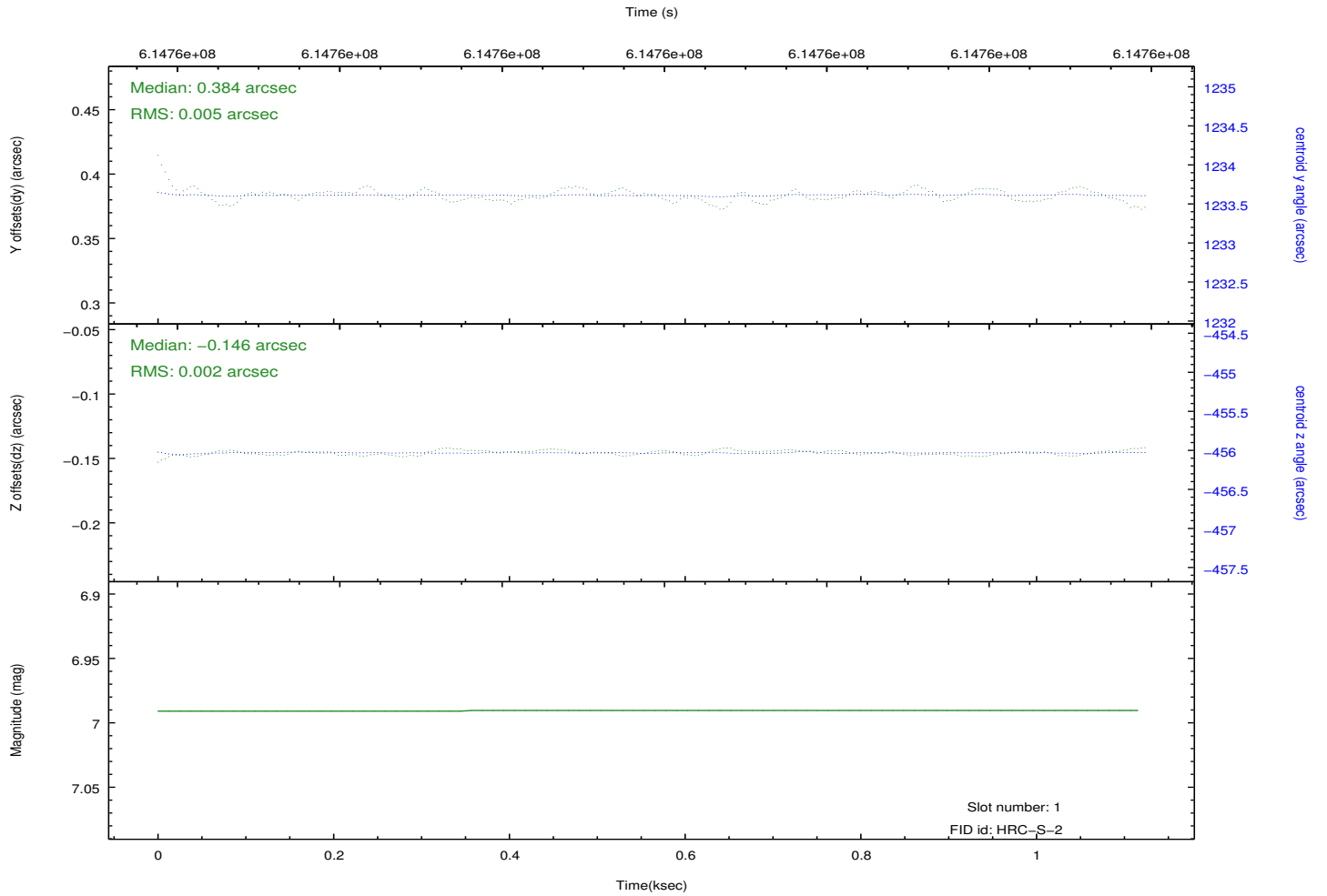
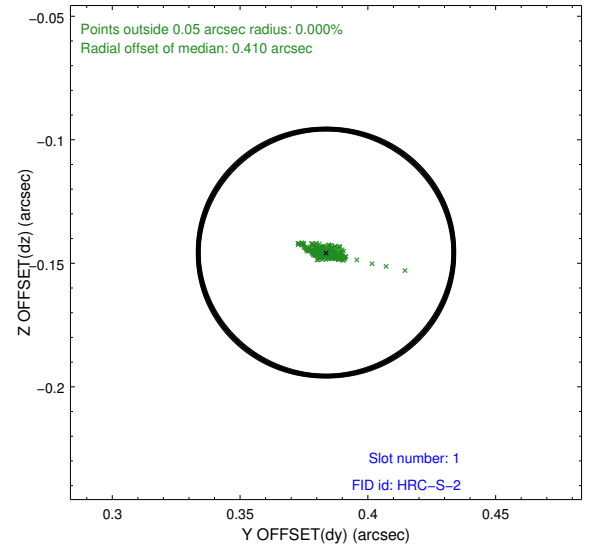
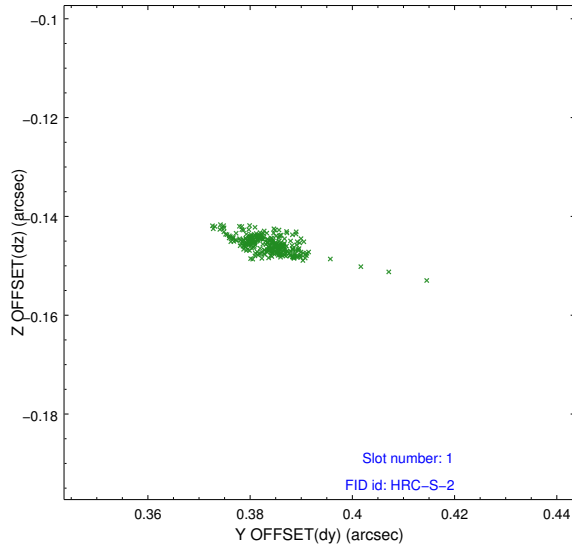


## 2.5 FID Slots

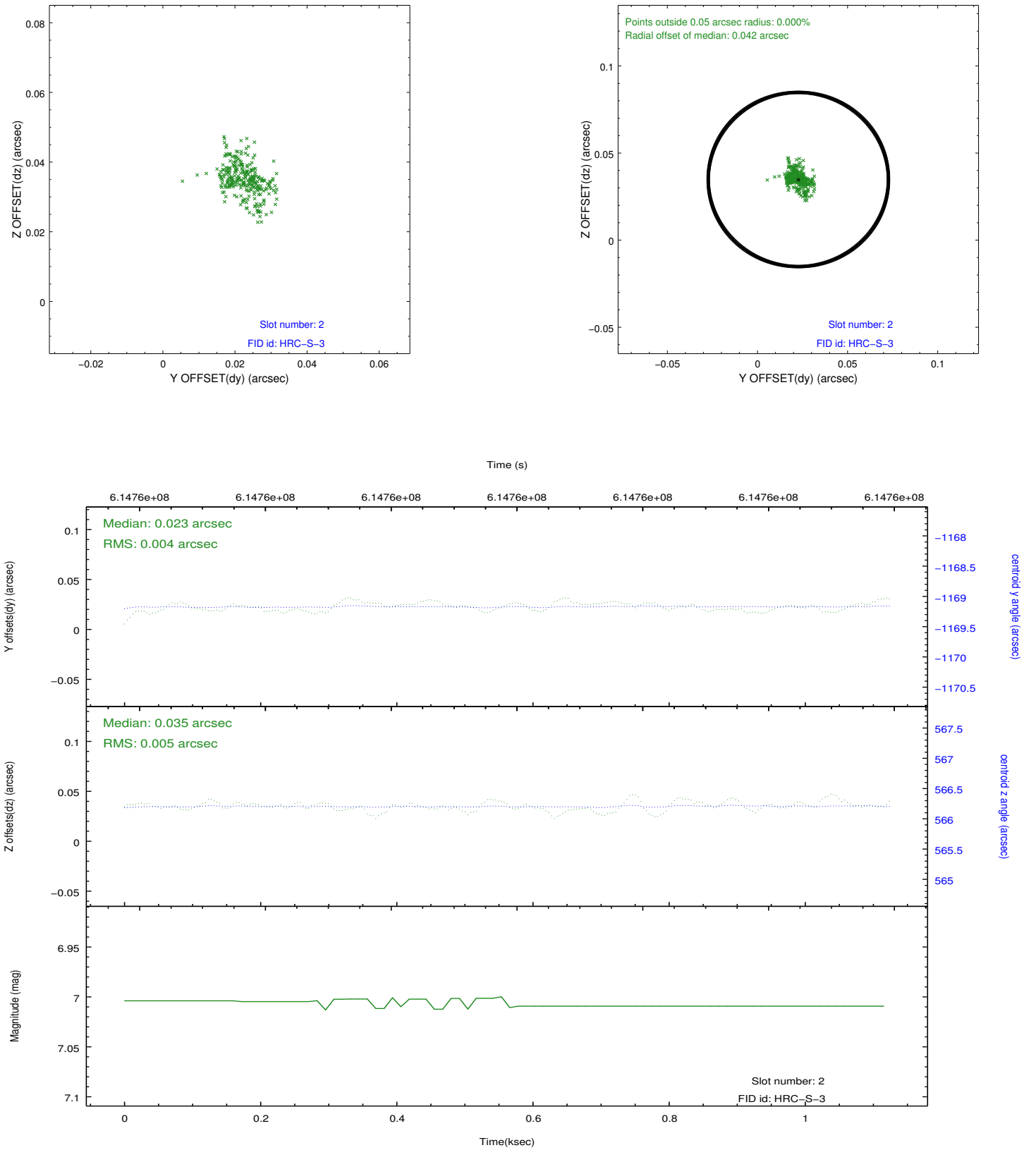
### 2.5.1 Slot 0



## 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)	2017.06.26
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.1226313154697

### A.2 Comments

Window constraint met.