

# V&V Reference Report

## L2 ASCDS Version : 10.6

Observation 19842 - L2 Version 1  
Chandra X-Ray Center

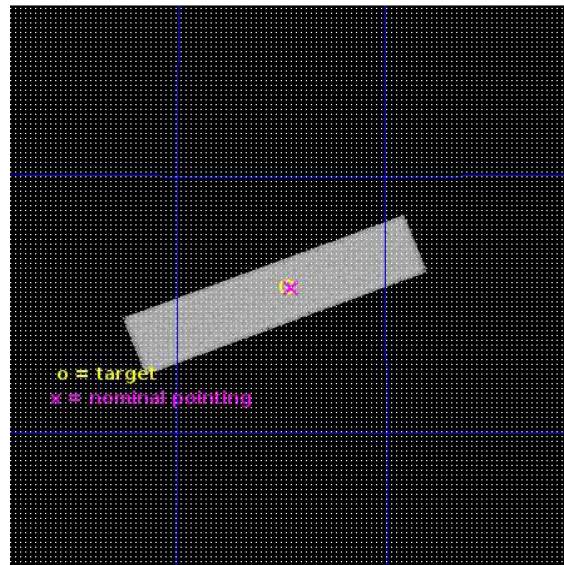
L2 Processing Date : Jun 24 2017

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# 1 Front

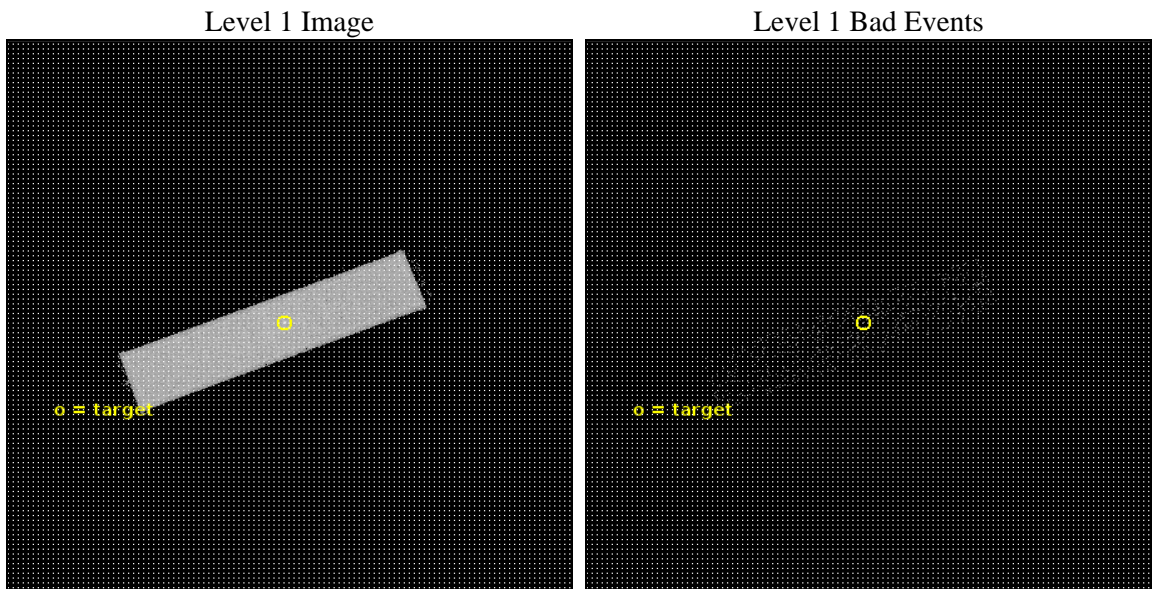
seq_num	291359	Sequence number
obs_id	19842	Observation id
title	AO-18 Measurements of the optical/UV Transmission of the HRC Filters.	Proposal title
observer	CXC Calibration	Principal investigator
object	Vega	Source name
ra_targ	279.235833	Observer's specified target RA [deg]
dec_targ	38.78475	Observer's specified target Dec [deg]
ra_nom	279.22493974004	Nominal RA [deg]
dec_nom	38.782617153291	Nominal Dec [deg]
roll_nom	159.07390502419	Nominal Roll [deg]
revision	1	Processing version of data
ontime	2137.3813745975	[s]
livetime	2120.4274397562	Ontime multiplied by DTCOR
l2events	125375	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	2000.000000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	2137.3813745975	[s]
caldbver	4.7.5	&#160	l1events	235915	Number of level 1 events
date	2017-06-24T13:38:40	Date and time of file creation			
revision	1	Processing version of data			

### 2.1.3 Events

Level 1 Events

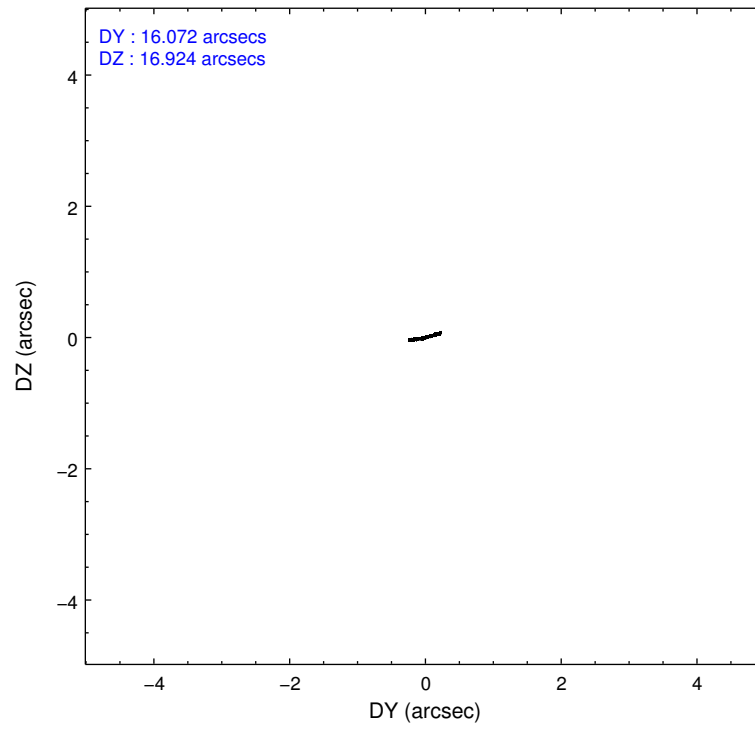
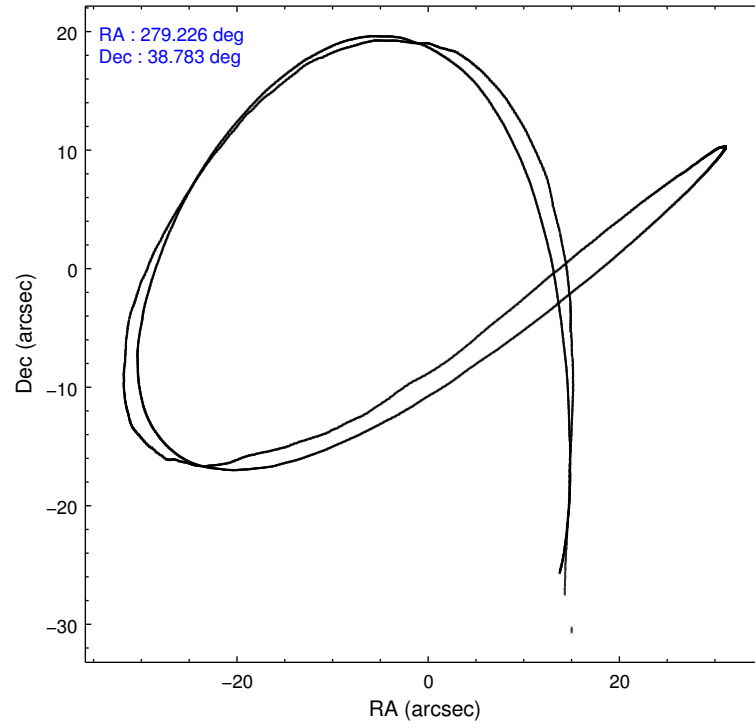
	segment 1	segment 2	segment 3
level 1 events	3	235907	5
rejected events	3	87577	5
rejected %	100%	37%	100%

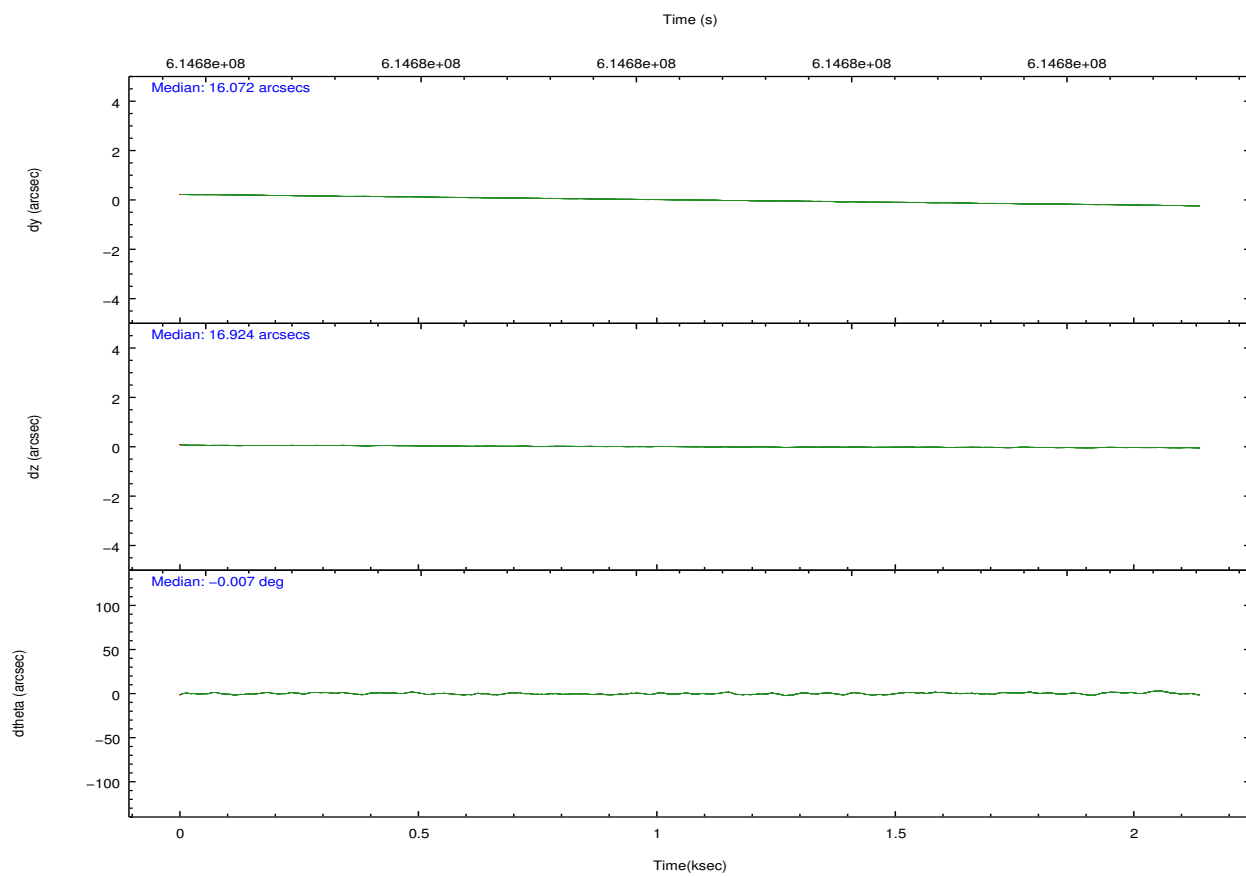
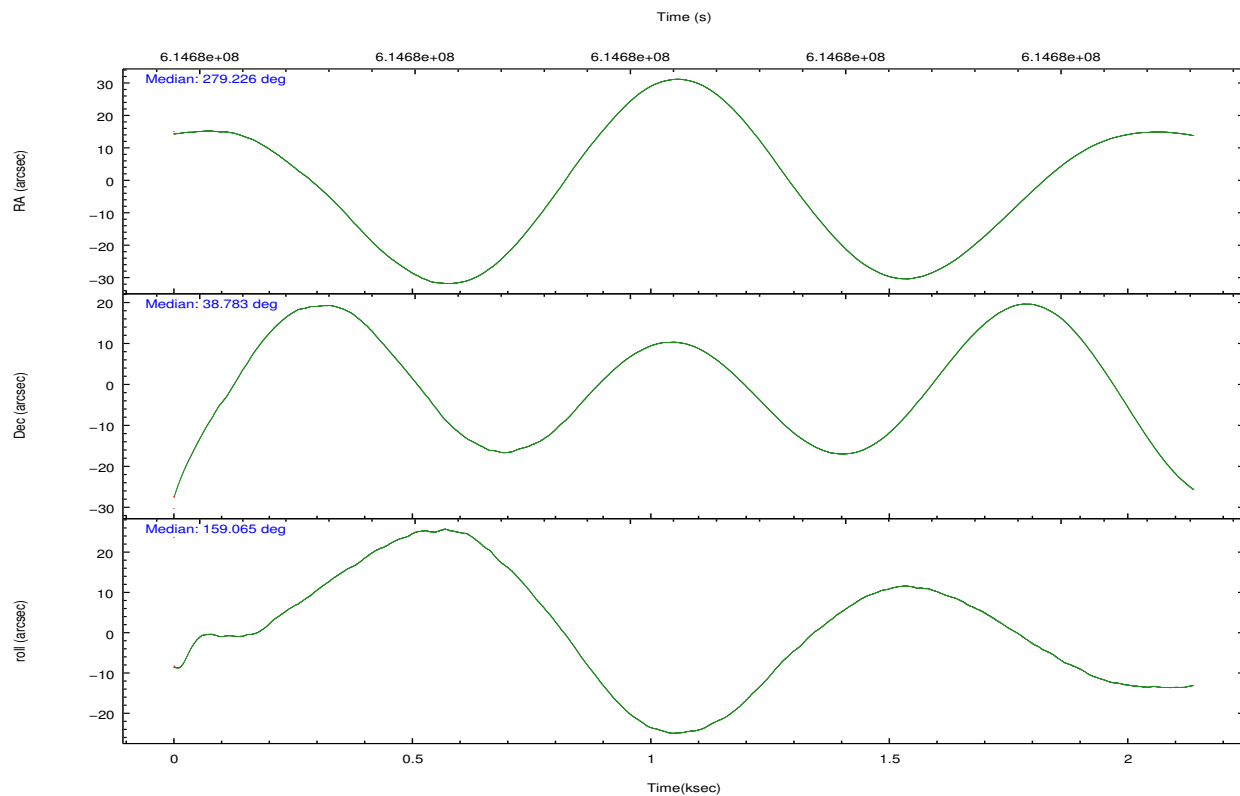
## 2.2 Compared Parameters

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	279.261187	279.2249397400359
[deg] Pointing Dec	38.788062	38.78261715329061
[deg] Pointing Roll	158.984121	159.0739050241945
[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)	614677714.184000	614676359.50009
Observation start date	2017-06-24T07:47:25	2017-06-24T07:25:59
[s] Observation end time (MET)	614679714.184000	614680299.0878201
Observation end date	2017-06-24T08:20:45	2017-06-24T08:31:39

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

## 2.3 Aspect





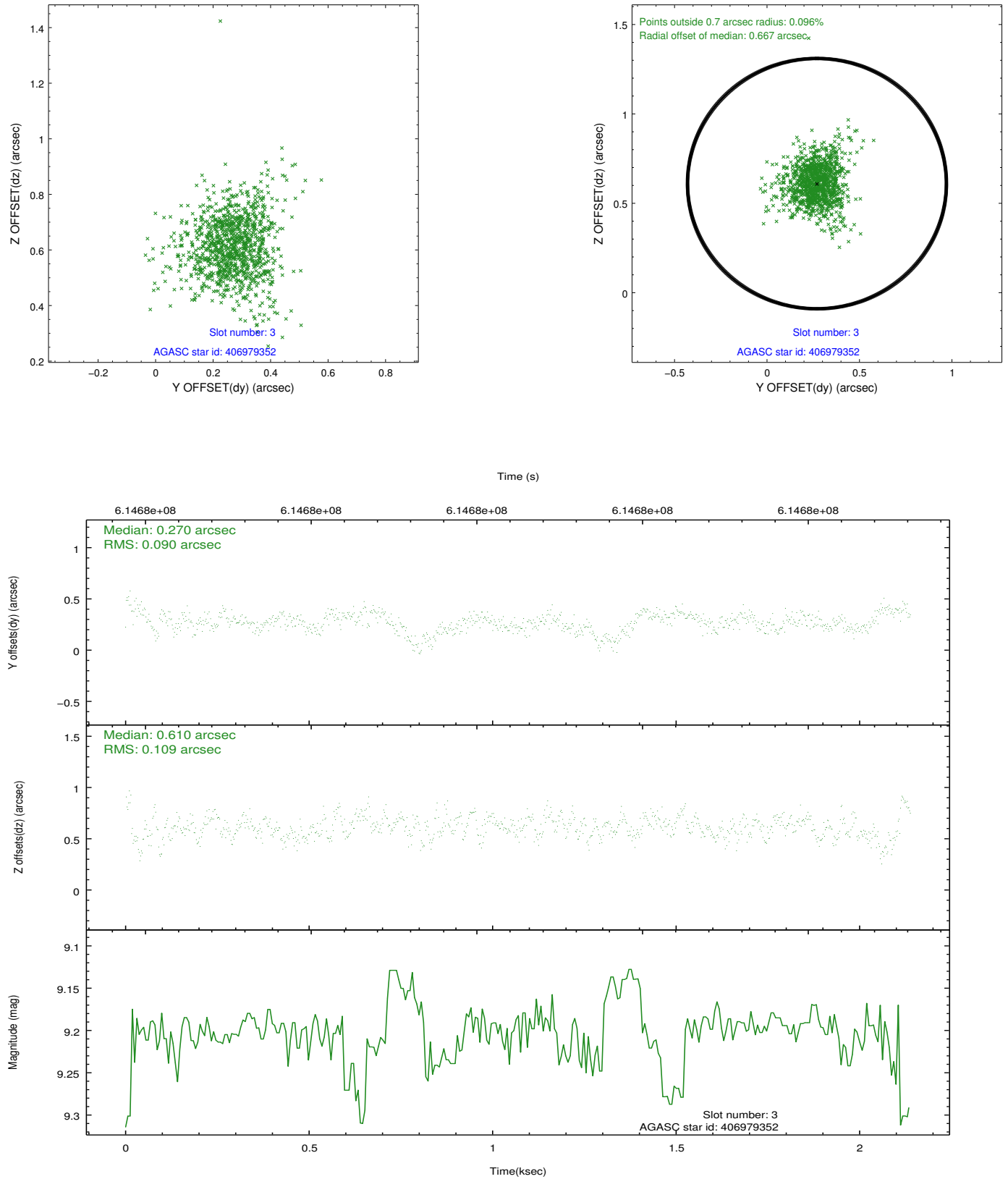
### Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		HRC-S-1	7.03	522	-0.102	-0.238	0.006	0.010	0.000000	0.000000	-1170.63	-465.99
1	FID		HRC-S-3	7.02	522	0.053	-0.059	0.007	0.013	0.000000	0.000000	-1175.51	562.81
2	FID		HRC-S-4	6.99	521	0.436	-0.001	0.005	0.012	0.000000	0.000000	1225.82	567.56
3	GUIDE	used	406979352	9.20	1043	0.270	0.610	0.141	0.256	279.968297	39.230258	-1268.26	-2195.56
4	GUIDE	used	406983600	8.87	1043	0.190	0.366	0.128	0.214	279.940957	39.020708	-1475.07	-1469.44
5	GUIDE	used	406989616	8.21	1043	-0.002	-0.237	0.103	0.190	279.202881	38.520843	-193.64	957.18
6	GUIDE	used	406987272	6.89	1044	-0.625	-0.696	0.102	0.178	278.536588	38.437504	1456.98	1905.10
7	GUIDE	used	407510432	8.14	1043	0.163	-0.053	0.144	0.256	278.762778	39.530640	2253.52	-1998.59

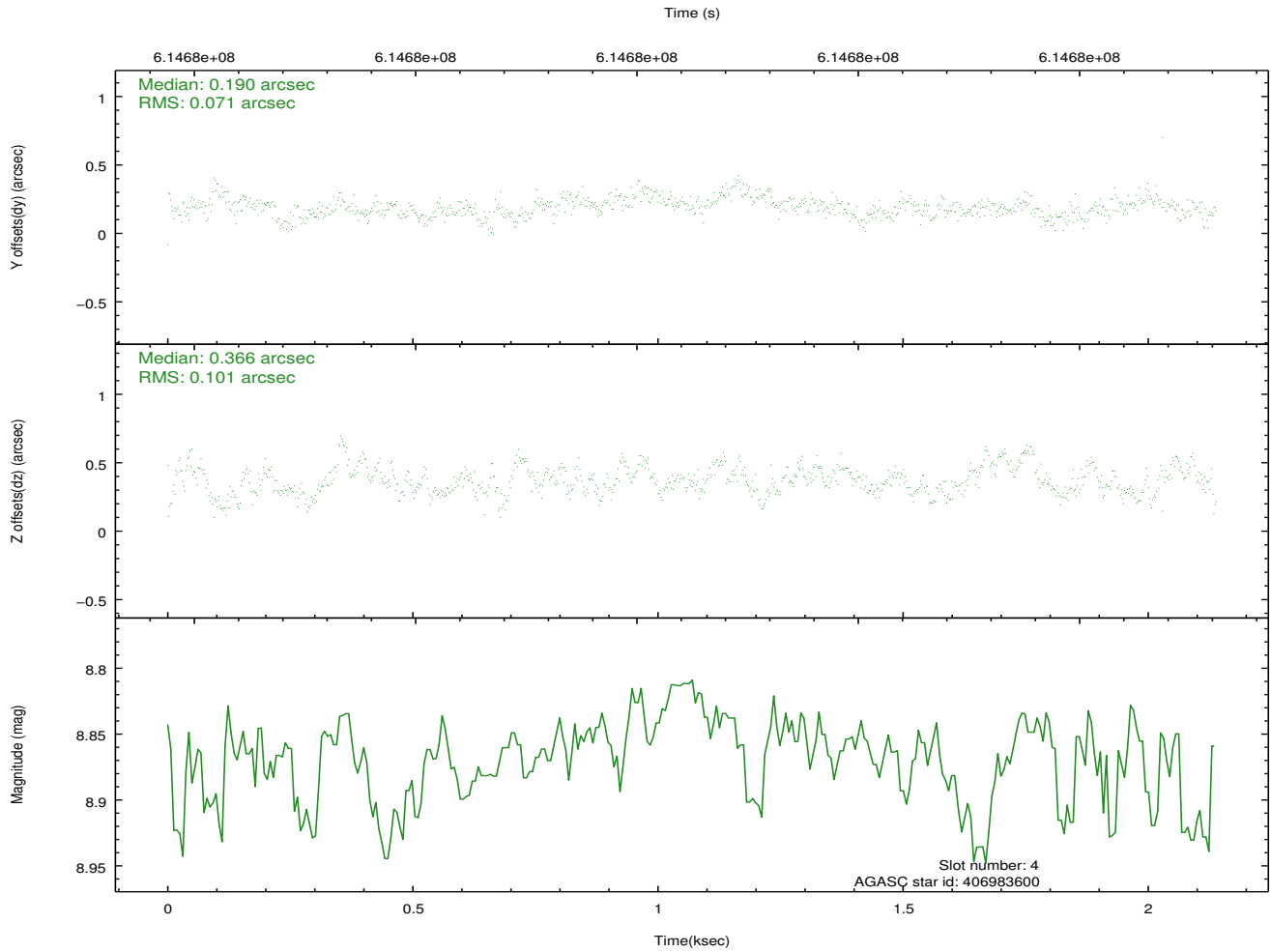
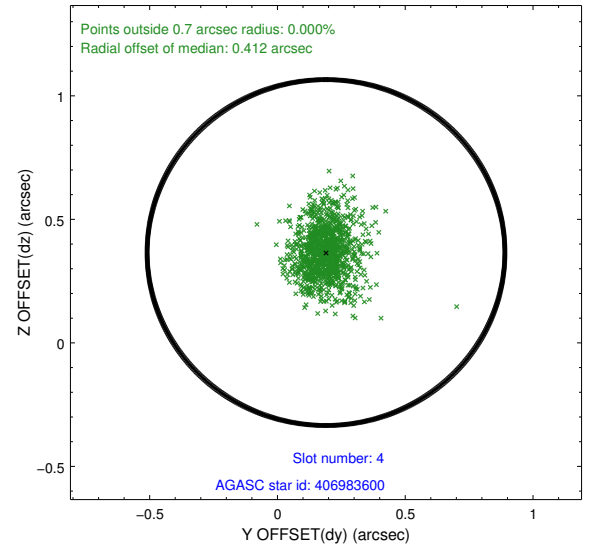
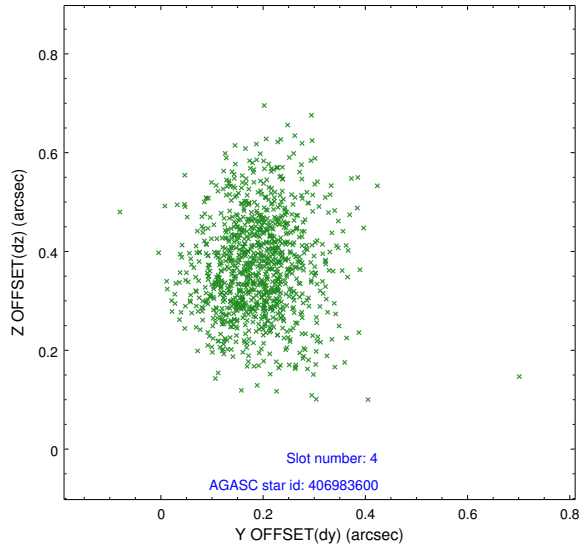


## 2.4 Star Slots

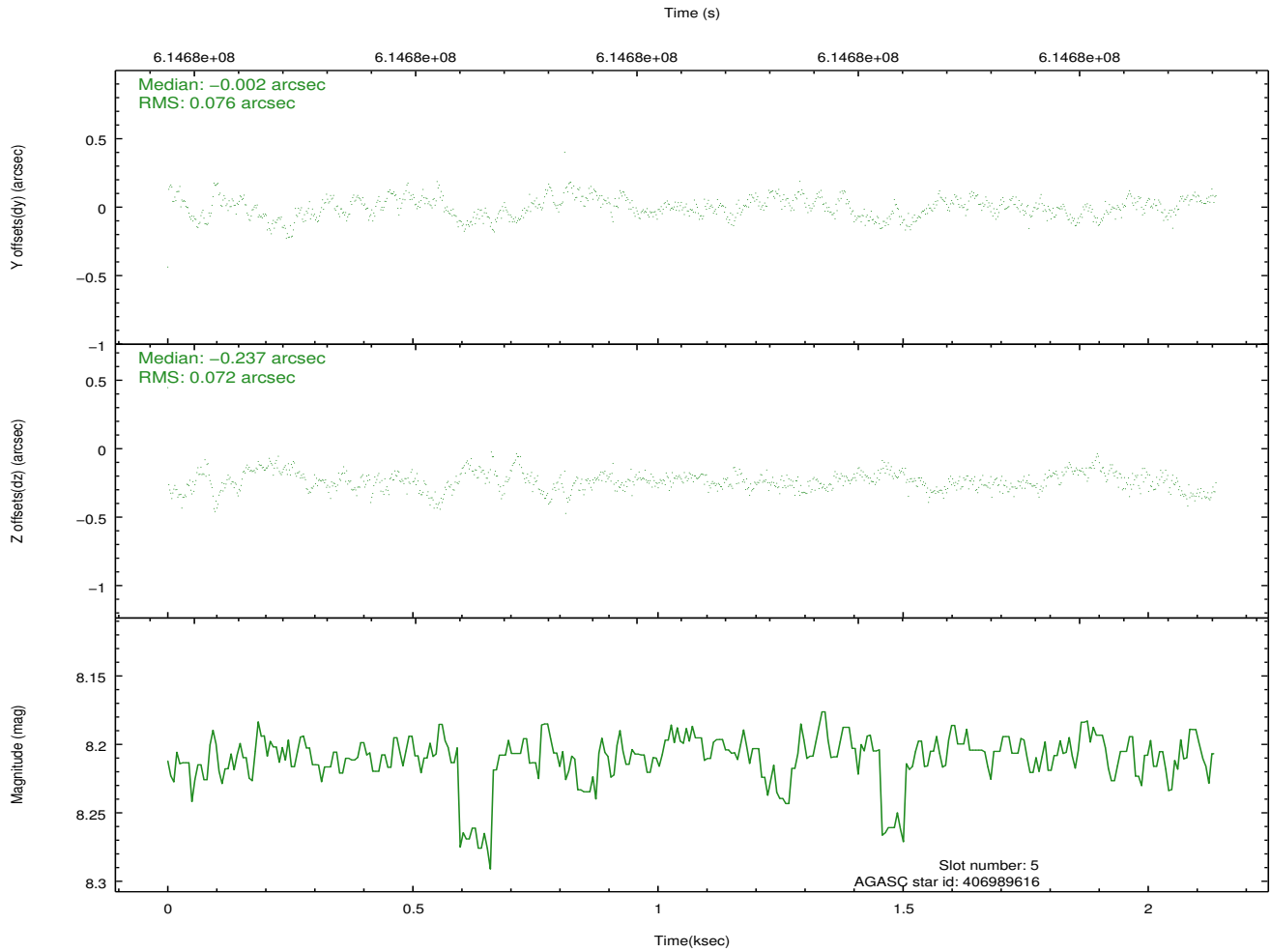
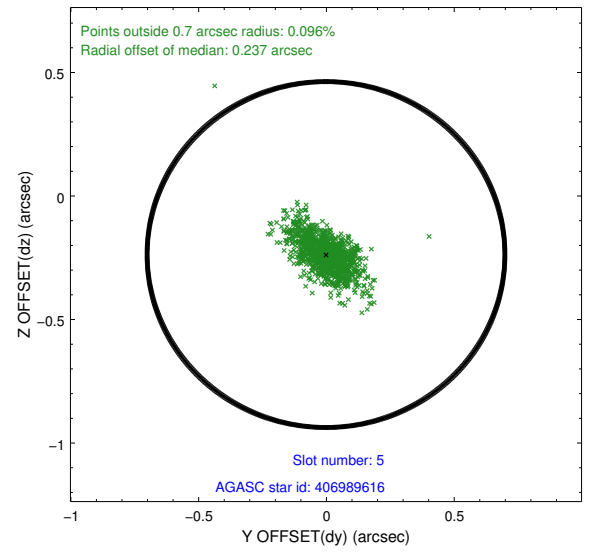
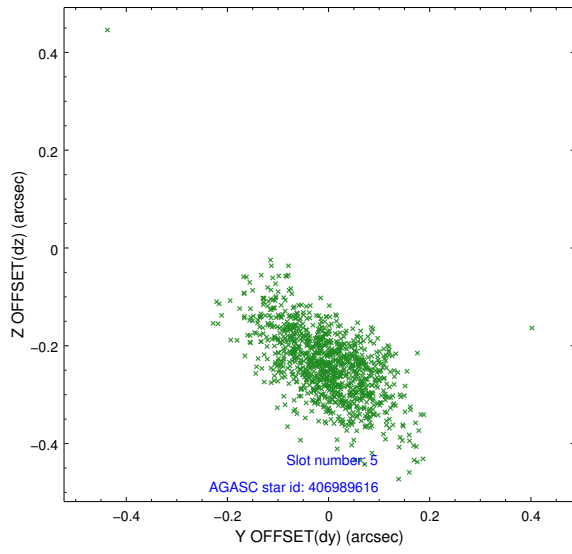
### 2.4.1 Slot 3



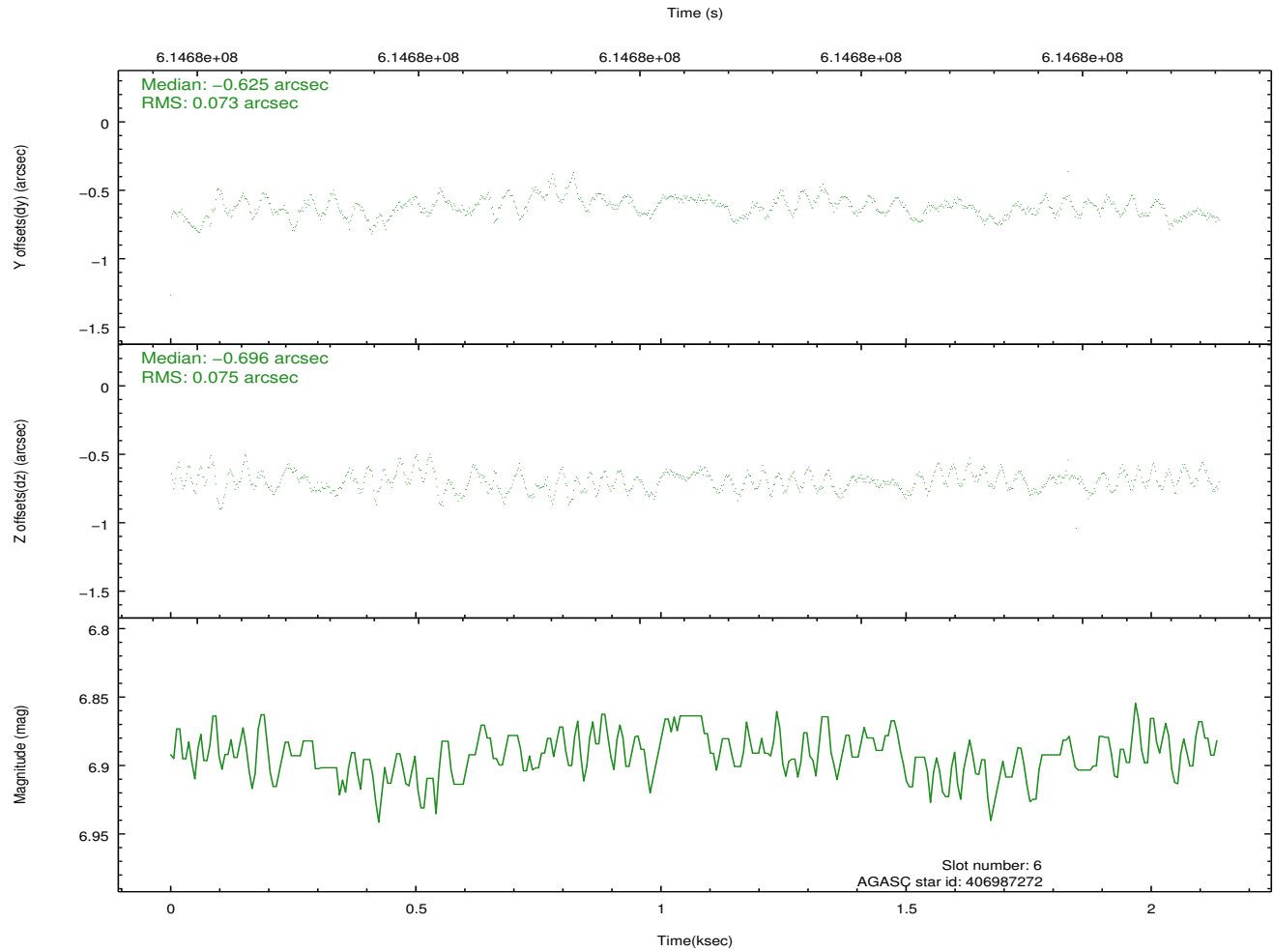
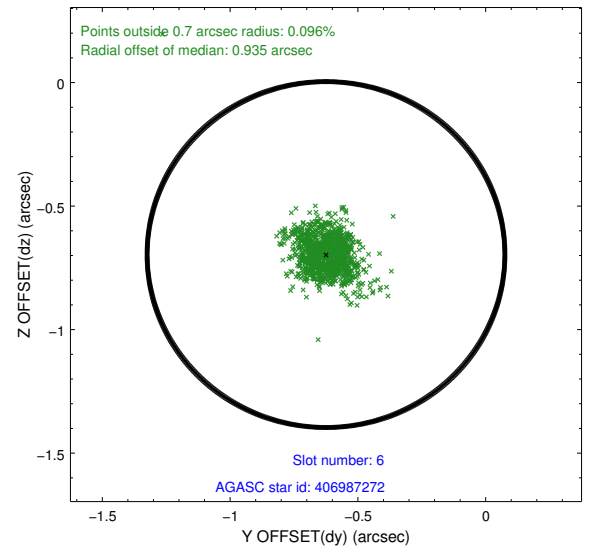
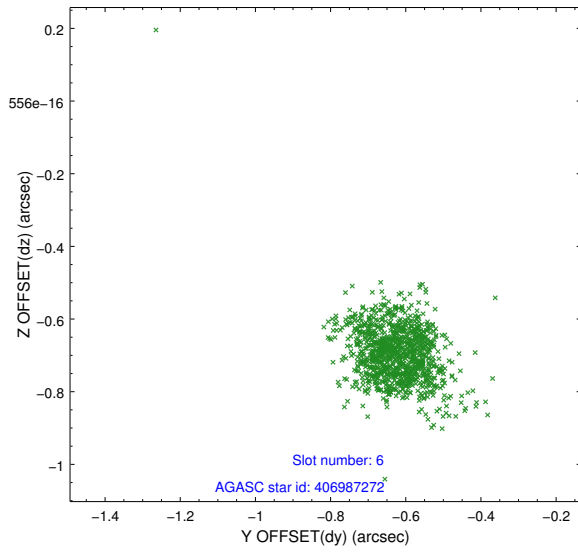
## 2.4.2 Slot 4



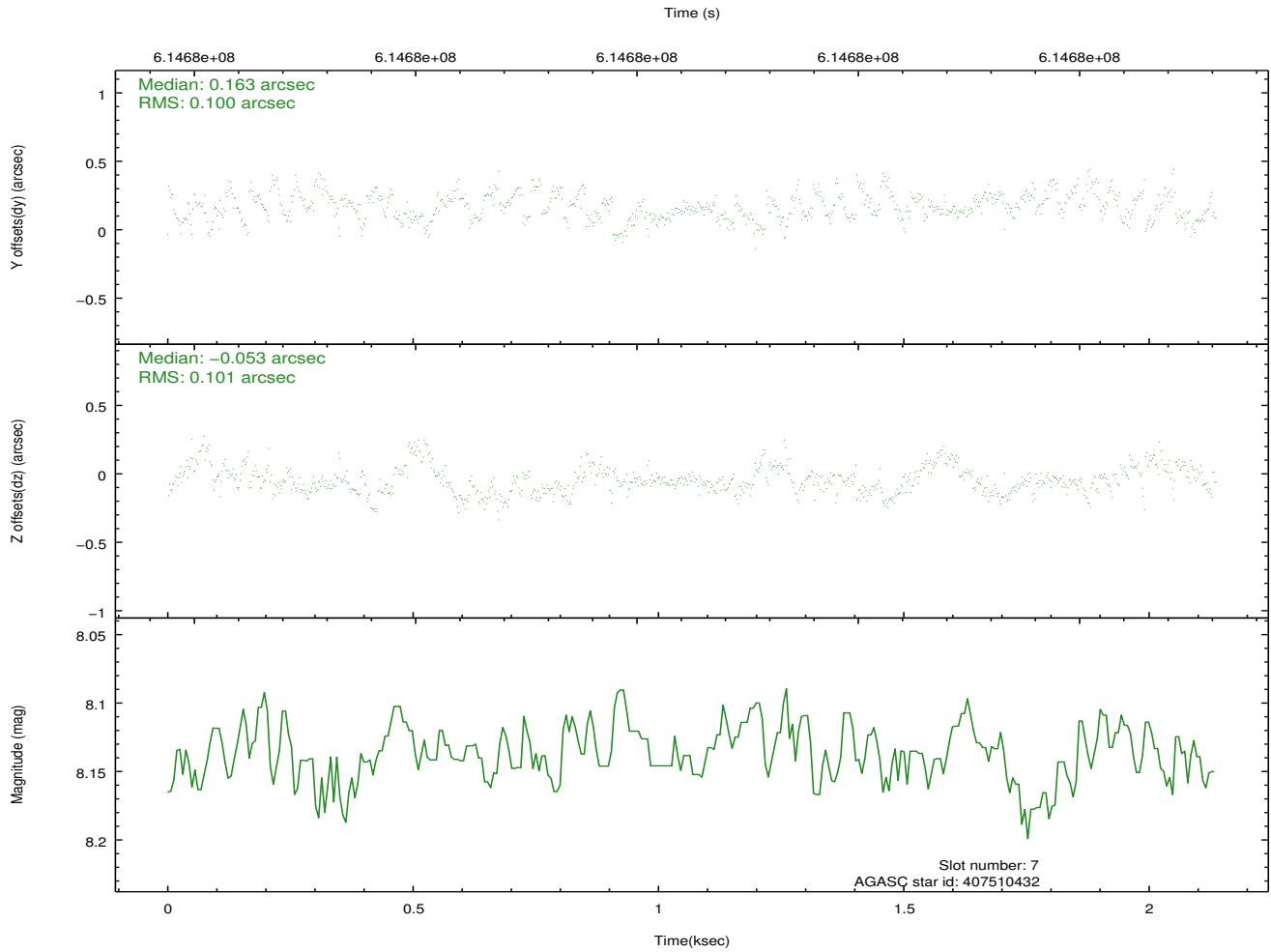
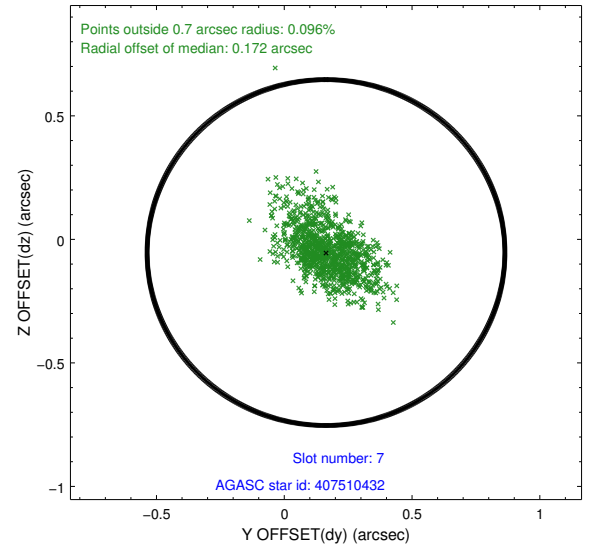
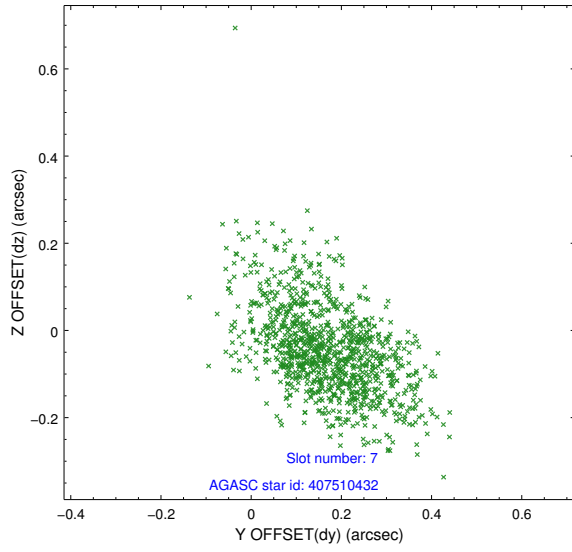
### 2.4.3 Slot 5



## 2.4.4 Slot 6

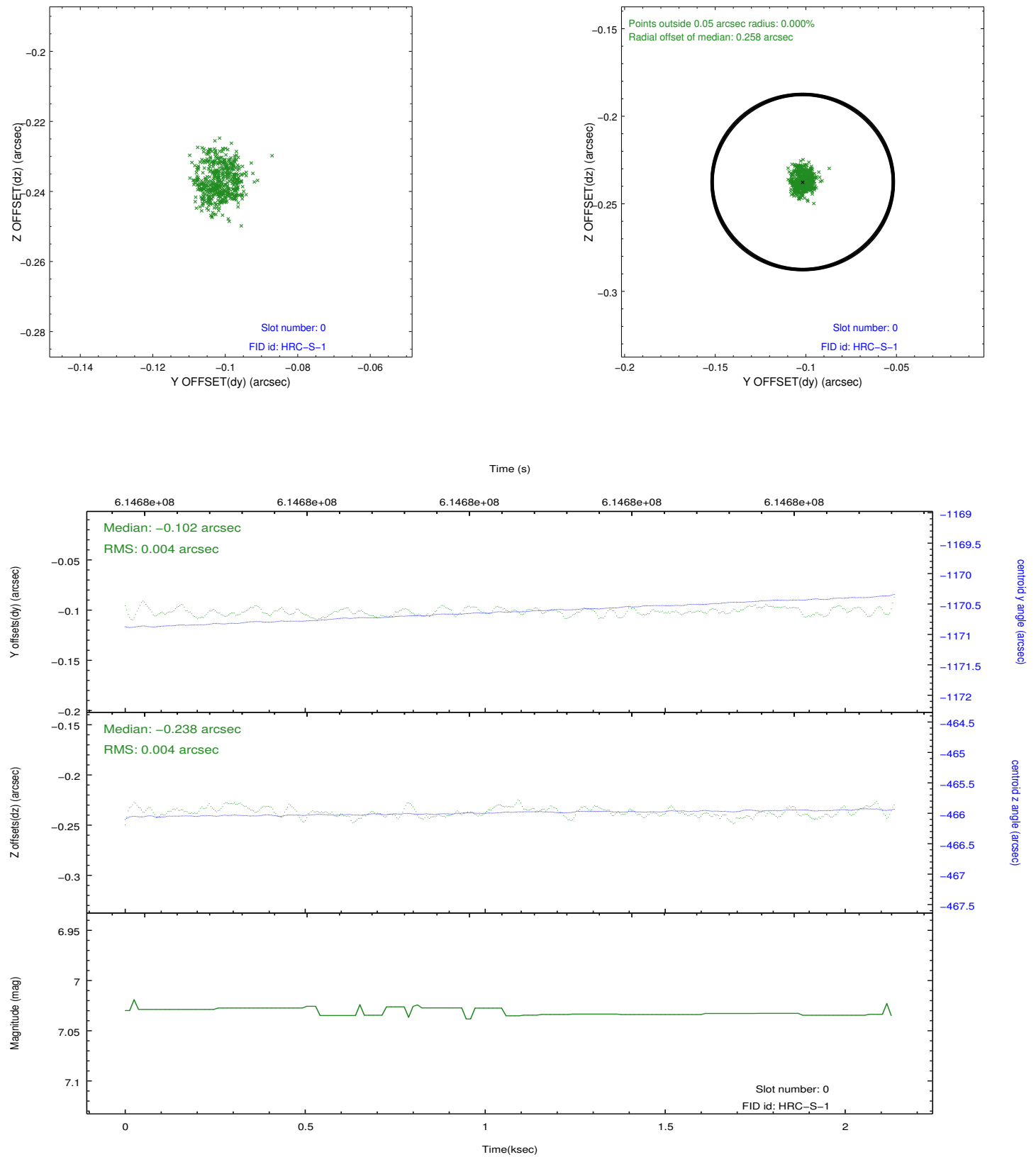


## 2.4.5 Slot 7

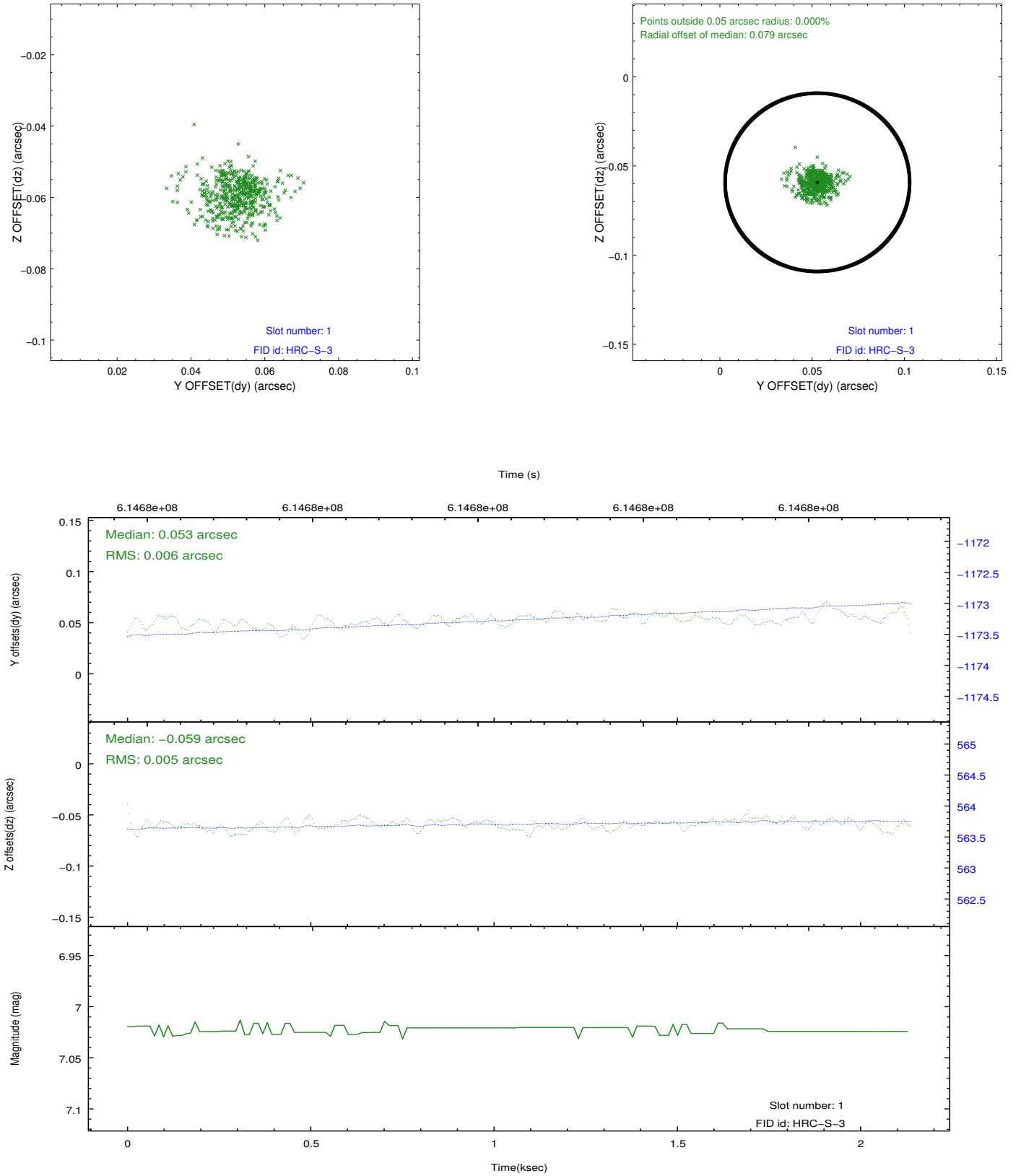


## 2.5 FID Slots

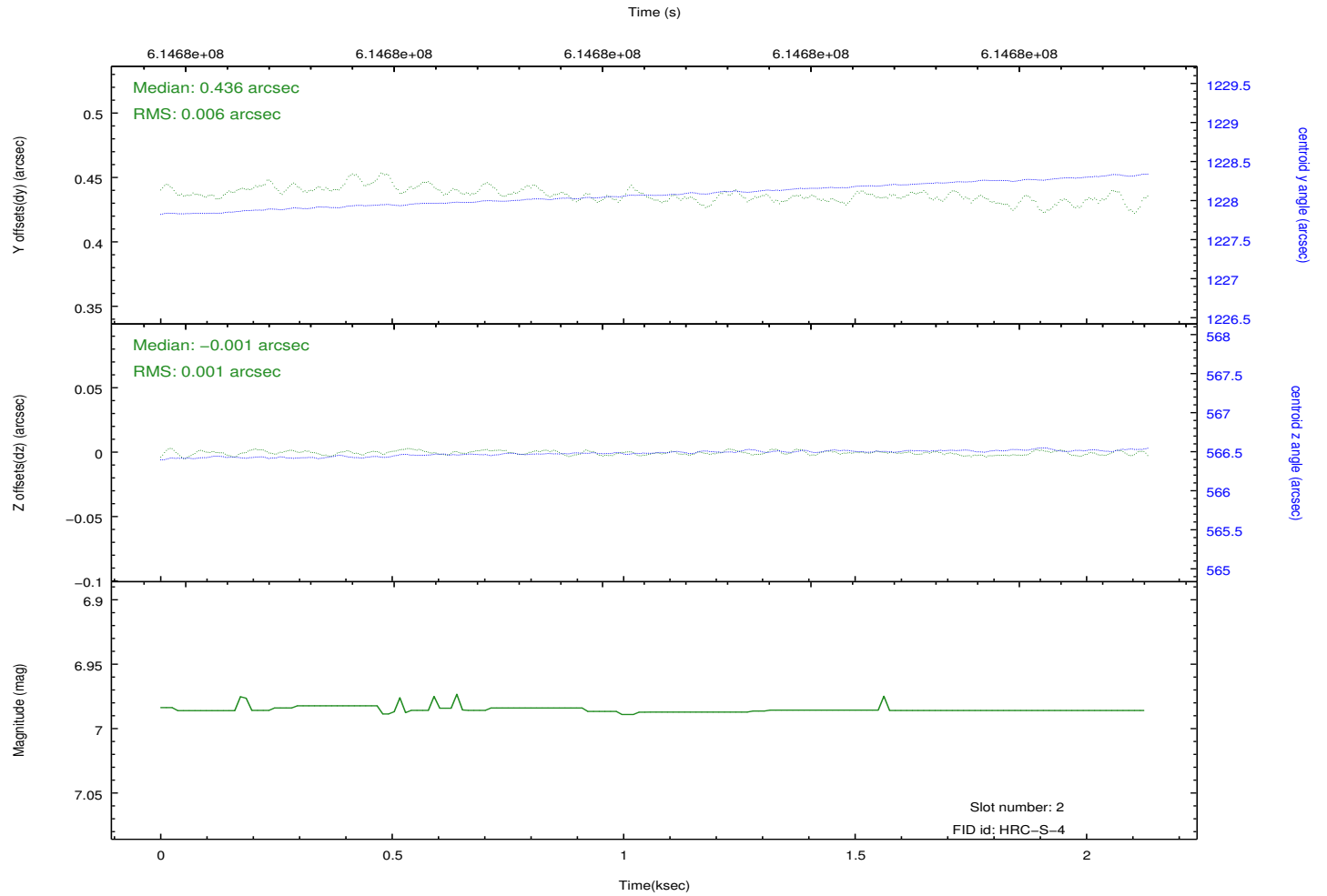
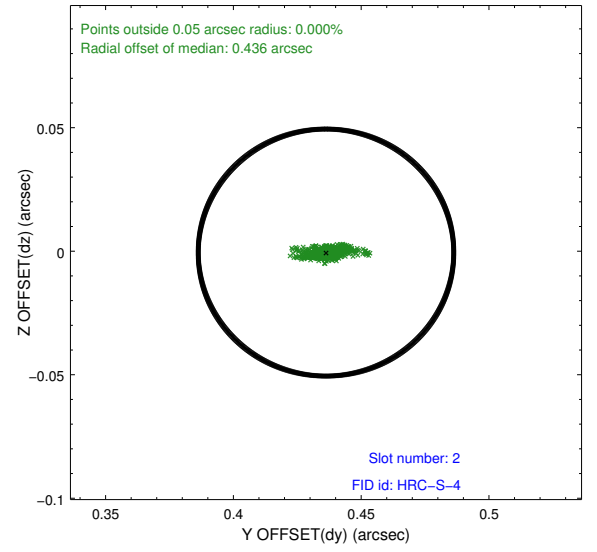
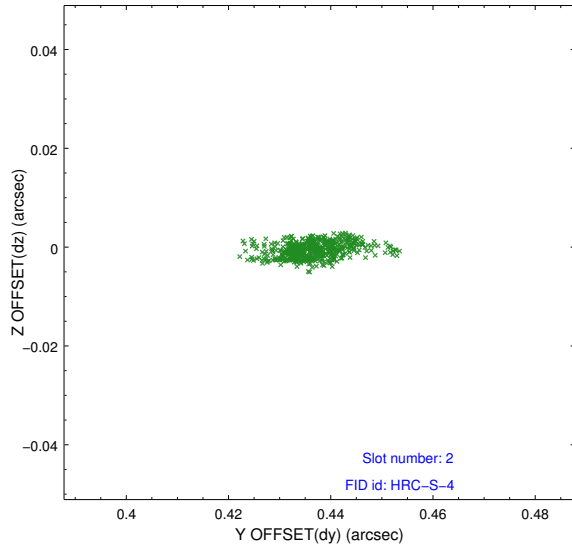
### 2.5.1 Slot 0



## 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	2.1373813745975

### A.2 Comments

Window constraint met.