

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 4316 - L2 Version 3  
Chandra X-Ray Center

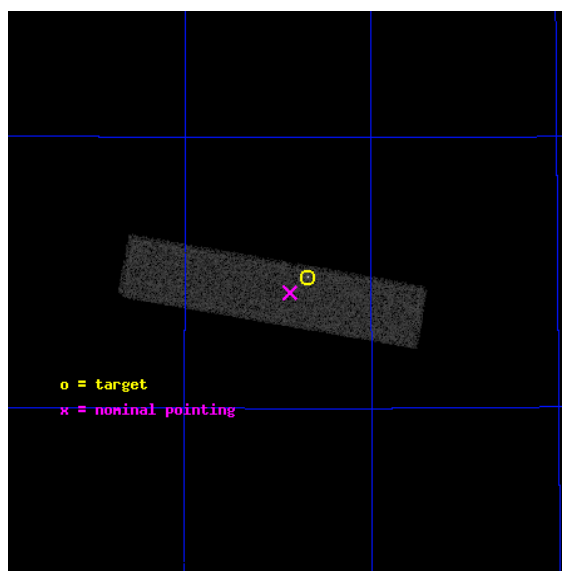
L2 Processing Date : Nov 2 2012

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# 1 Front

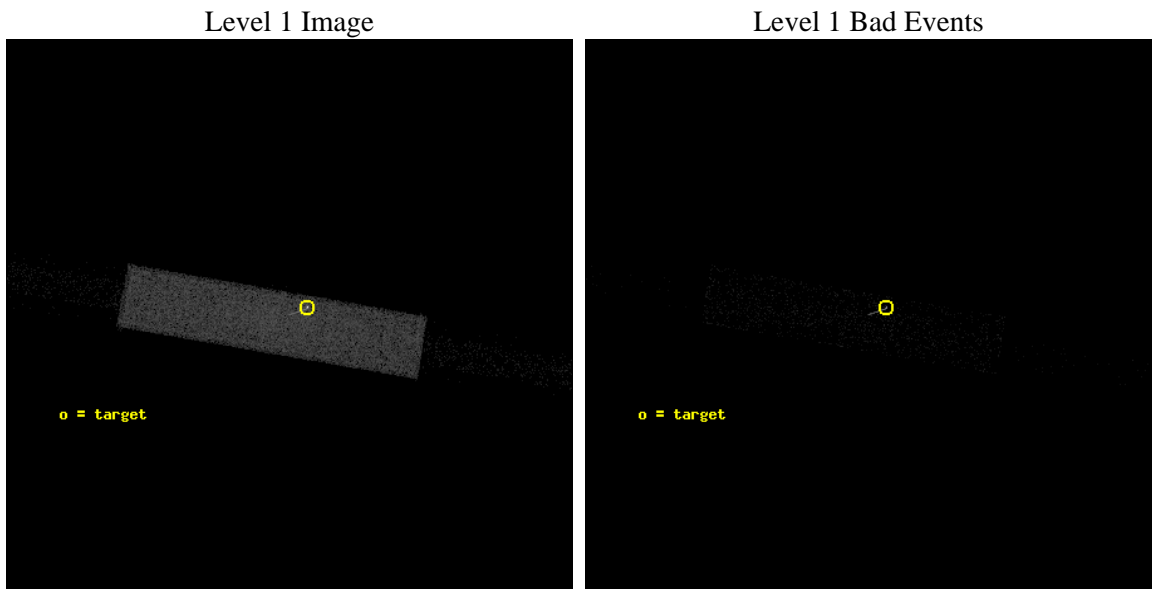
seq_num	290276	Sequence number
obs_id	4316	Observation id
title	AO4B CALIBRATION OBSERVATIONS TO MONITOR SPATIAL VARIATIONS IN THE HRC-S GAIN	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ARLAC	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.21817416211	Nominal RA [deg]
dec_nom	45.713289688925	Nominal Dec [deg]
roll_nom	189.75328587849	Nominal Roll [deg]
revision	3	Processing version of data
ontime	1143.1312989593	[s]
livetime	1137.404722026	Ontime multiplied by DTCOR
l2events	39689	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	8.4.5	Processing system revision	ontime	1143.1312989593	[s]
caldbver	4.5.2	&#160	l1events	65933	Number of level 1 events
date	2012-11-02T16:32:29	Date and time of file creation			
revision	3	Processing version of data			

### 2.1.3 Events

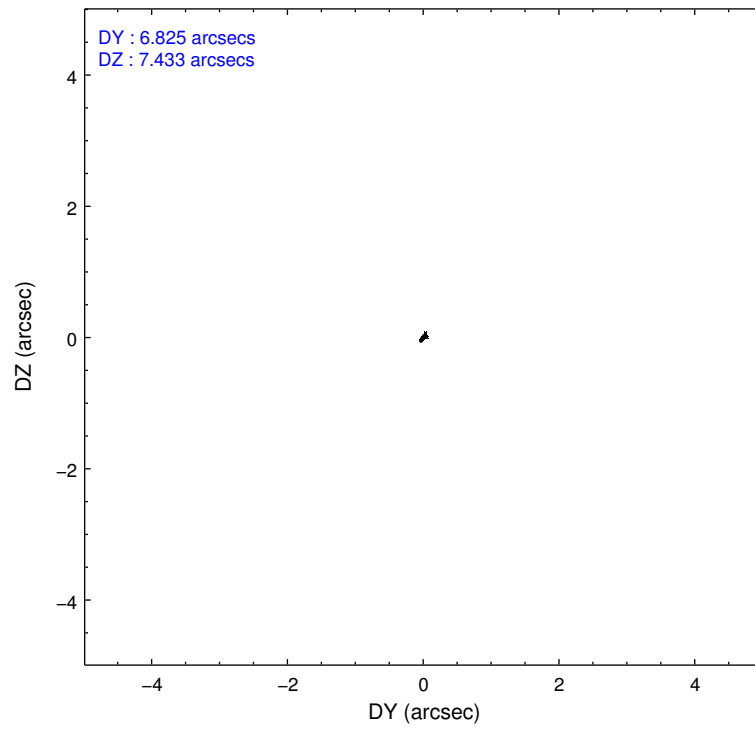
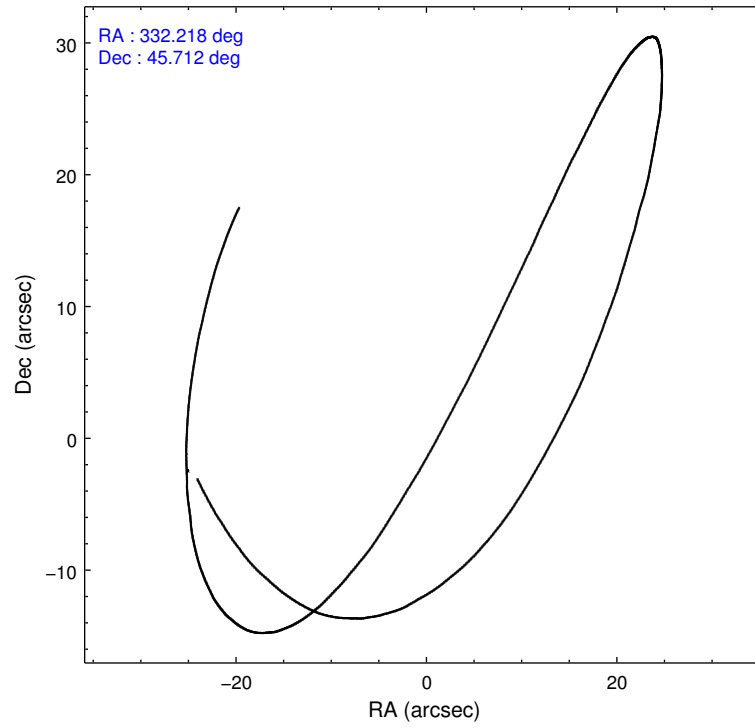
Level 1 Events

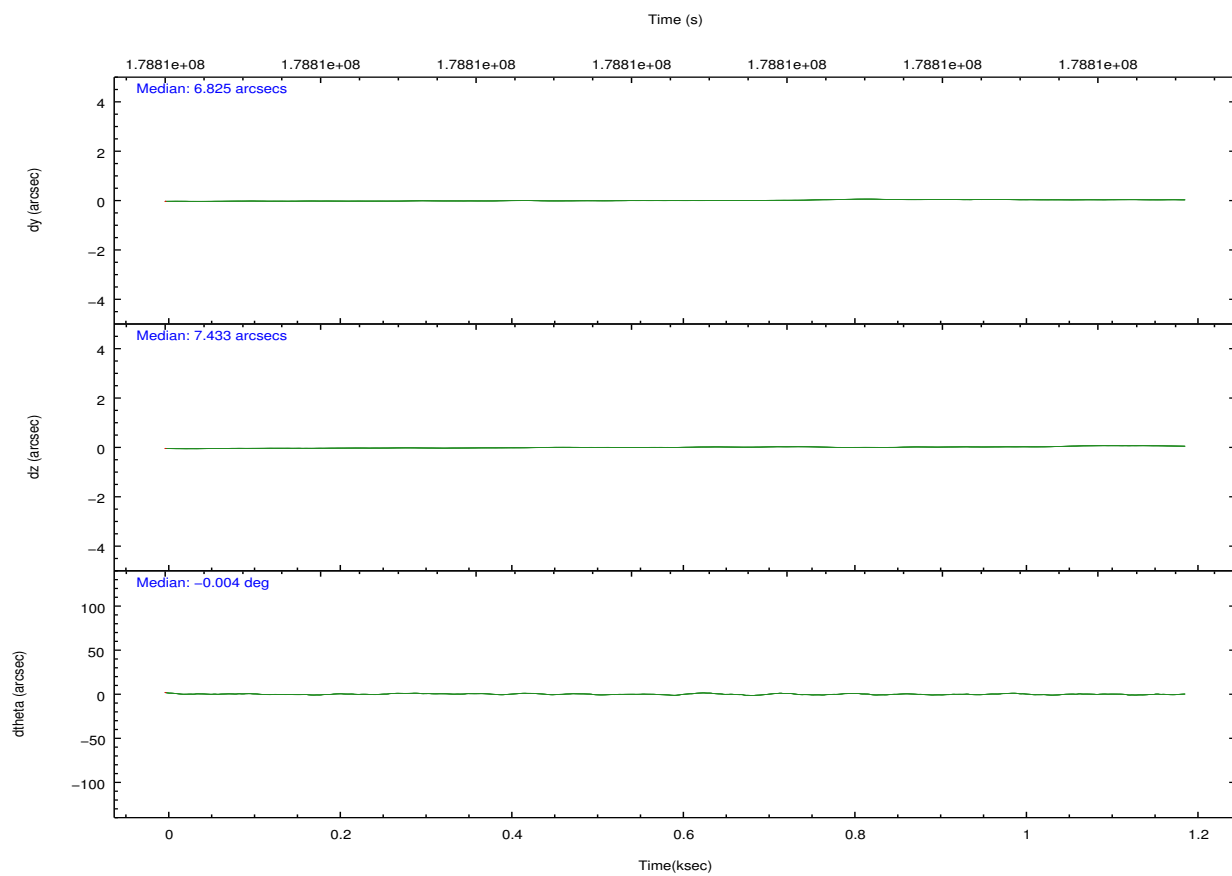
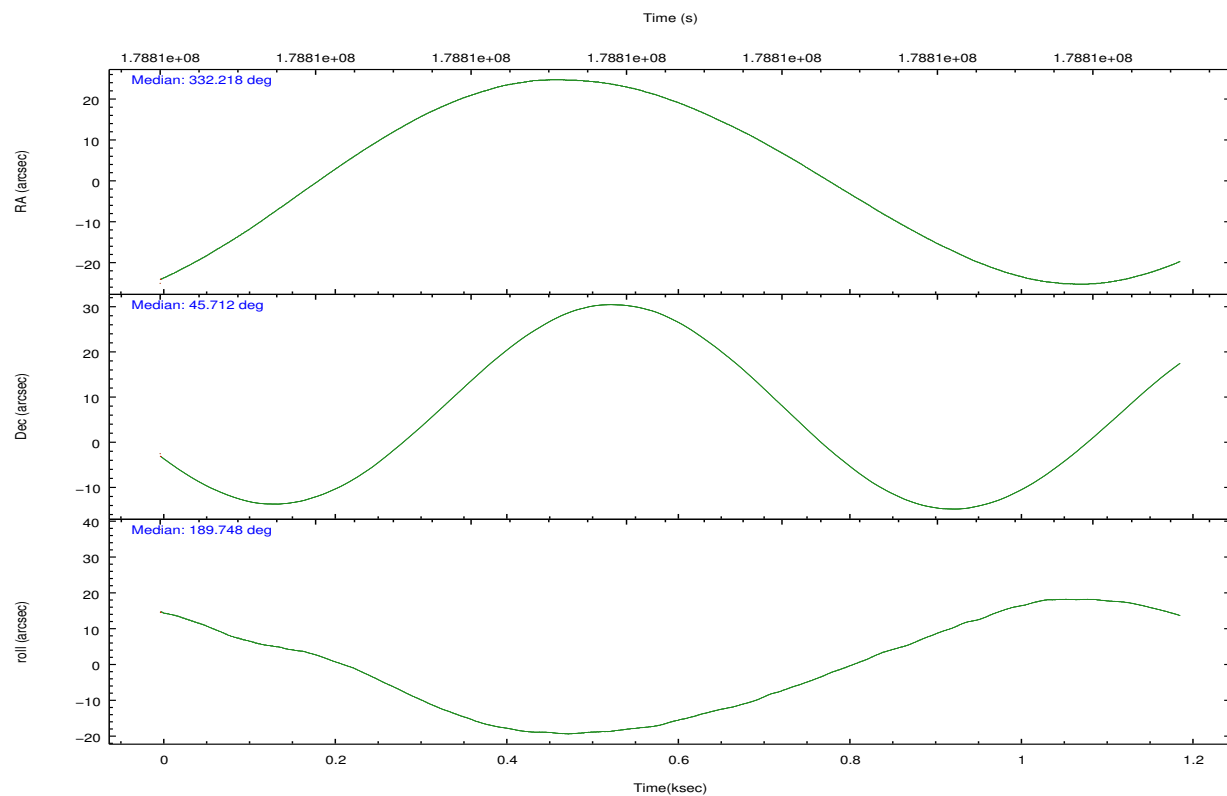
	<b>segment 1</b>	<b>segment 2</b>	<b>segment 3</b>
level 1 events	1010	63866	1057
rejected events	1010	14575	1057
rejected %	100%	22%	100%

## 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	332.248640	332.2181741621081			
[deg] Pointing Dec	45.733757	45.71328968892507			
[deg] Pointing Roll	189.664144	189.7532858784933			
[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)	178805448.184000	178805072.86985			
Observation start date	2003-09-01T12:09:44	2003-09-01T12:04:32			
[s] Observation end time (MET)	178806448.184000	178806582.69491			
Observation end date	2003-09-01T12:26:24	2003-09-01T12:29:42			

## 2.3 Aspect



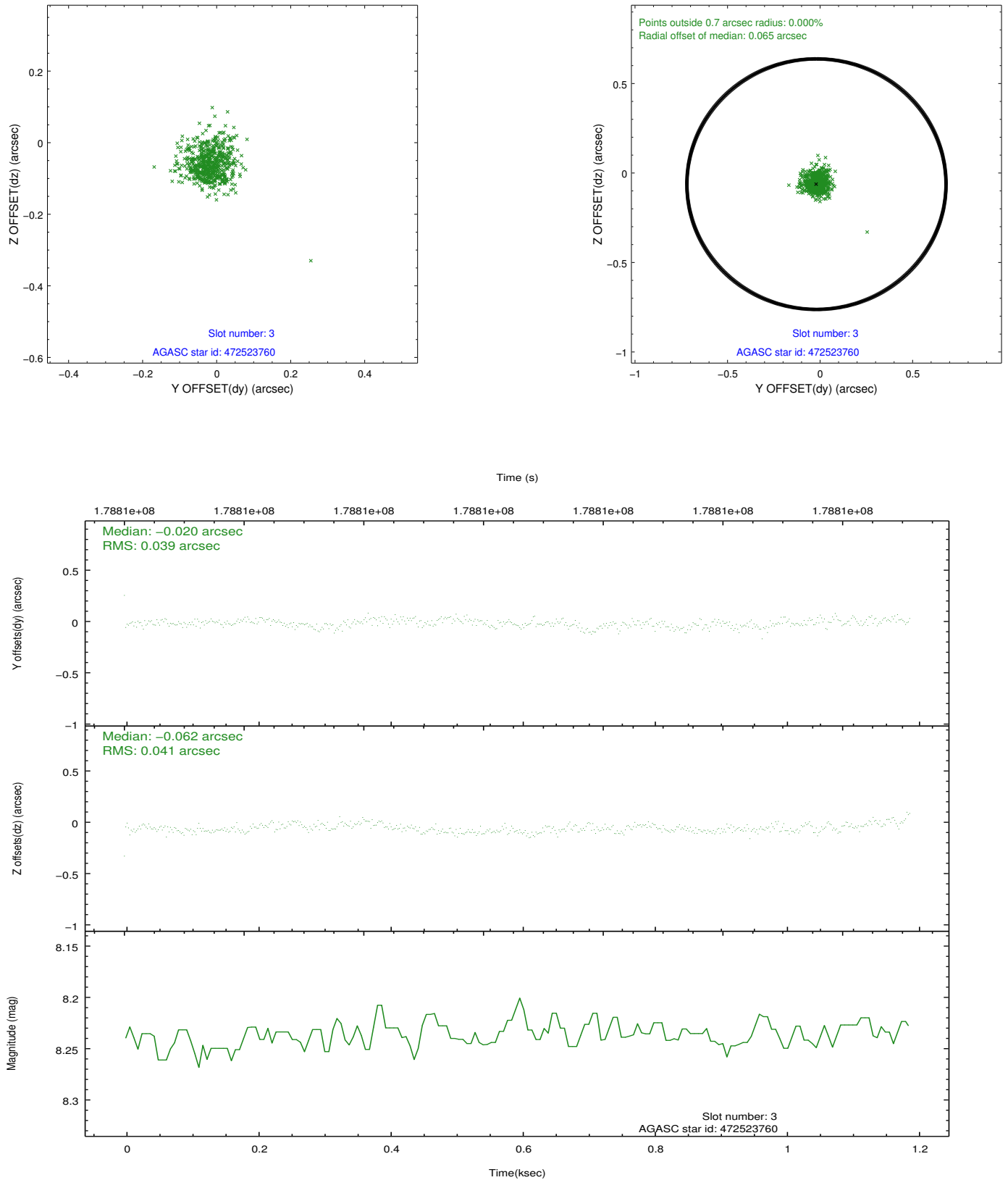


Slot Statistics

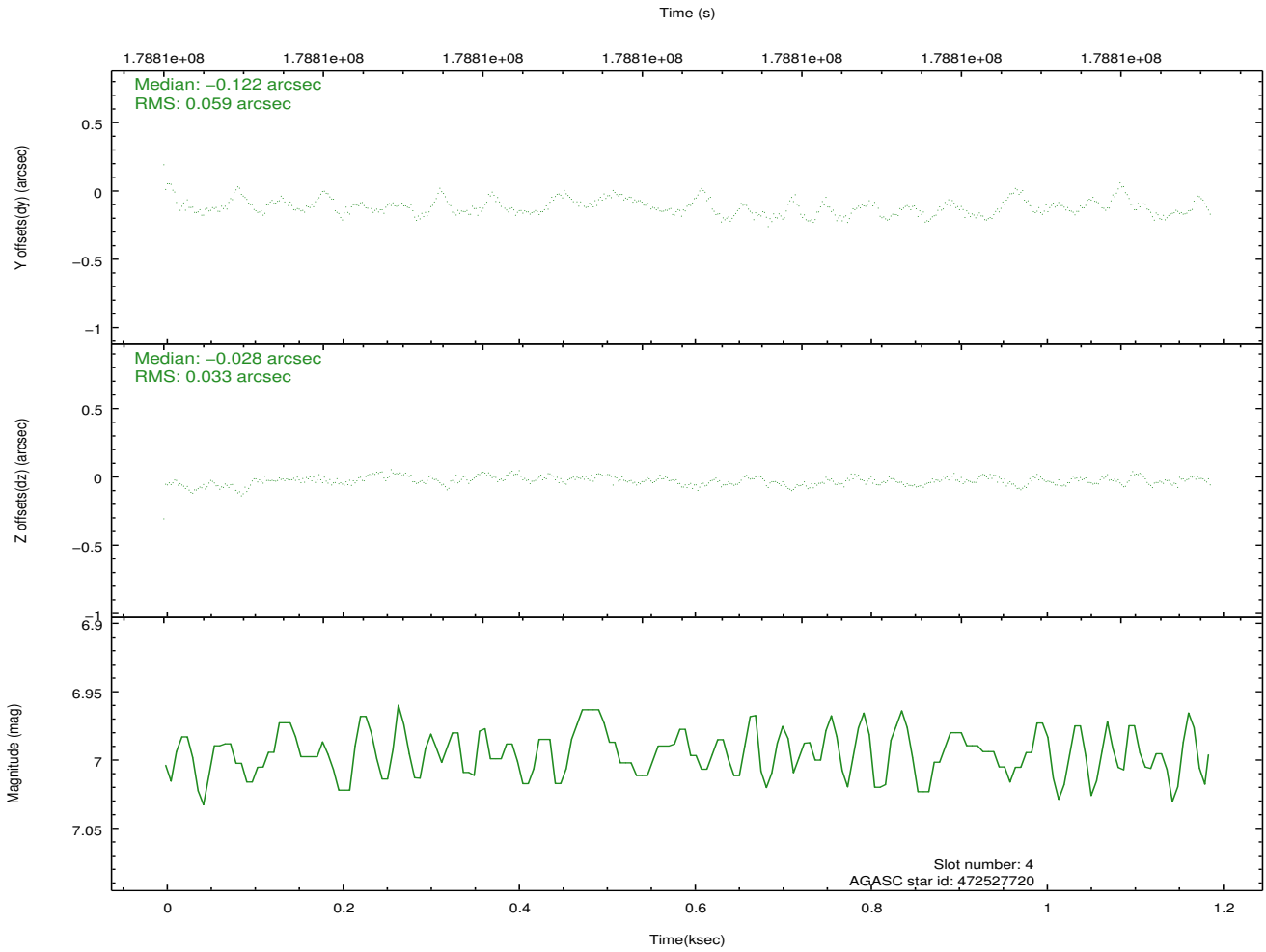
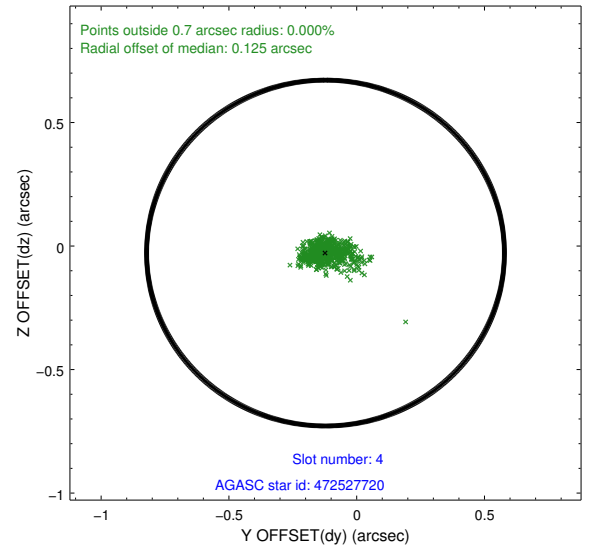
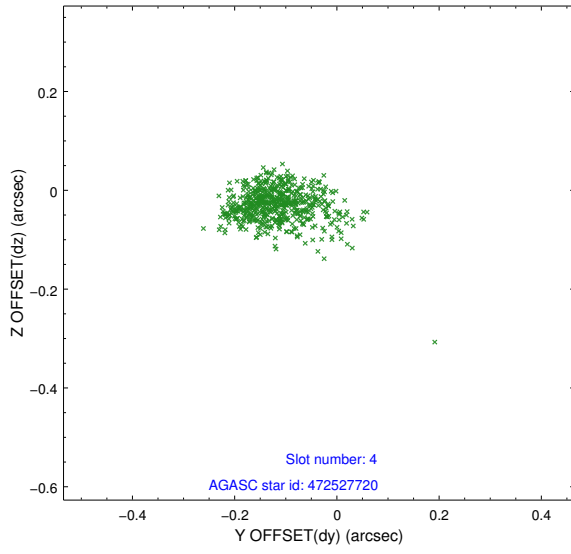
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-S-1	7.03	291	0.111	-0.111	0.006	0.011	0.000000	0.000000	-1161.00	-456.00
1	FID	HRC-S-2	7.03	291	0.159	-0.105	0.006	0.010	0.000000	0.000000	1234.74	-450.19
2	FID	HRC-S-3	7.04	291	0.119	-0.085	0.007	0.012	0.000000	0.000000	-1159.47	572.01
3	GUIDE	472523760	8.24	581	-0.020	-0.062	0.056	0.095	331.645363	45.403260	1700.80	907.76
4	GUIDE	472527720	7.00	581	-0.122	-0.028	0.067	0.120	331.460205	45.112509	2350.03	1856.99
5	GUIDE	472655152	9.44	581	0.132	0.042	0.104	0.182	332.504239	45.862991	-706.86	-352.54
6	GUIDE	472659832	9.46	581	0.052	0.021	0.091	0.153	332.780399	46.098139	-1531.73	-1079.10
7	GUIDE	472533912	9.16	580	-0.058	0.035	0.107	0.175	331.791136	46.368695	732.59	-2452.78

## 2.4 Star Slots

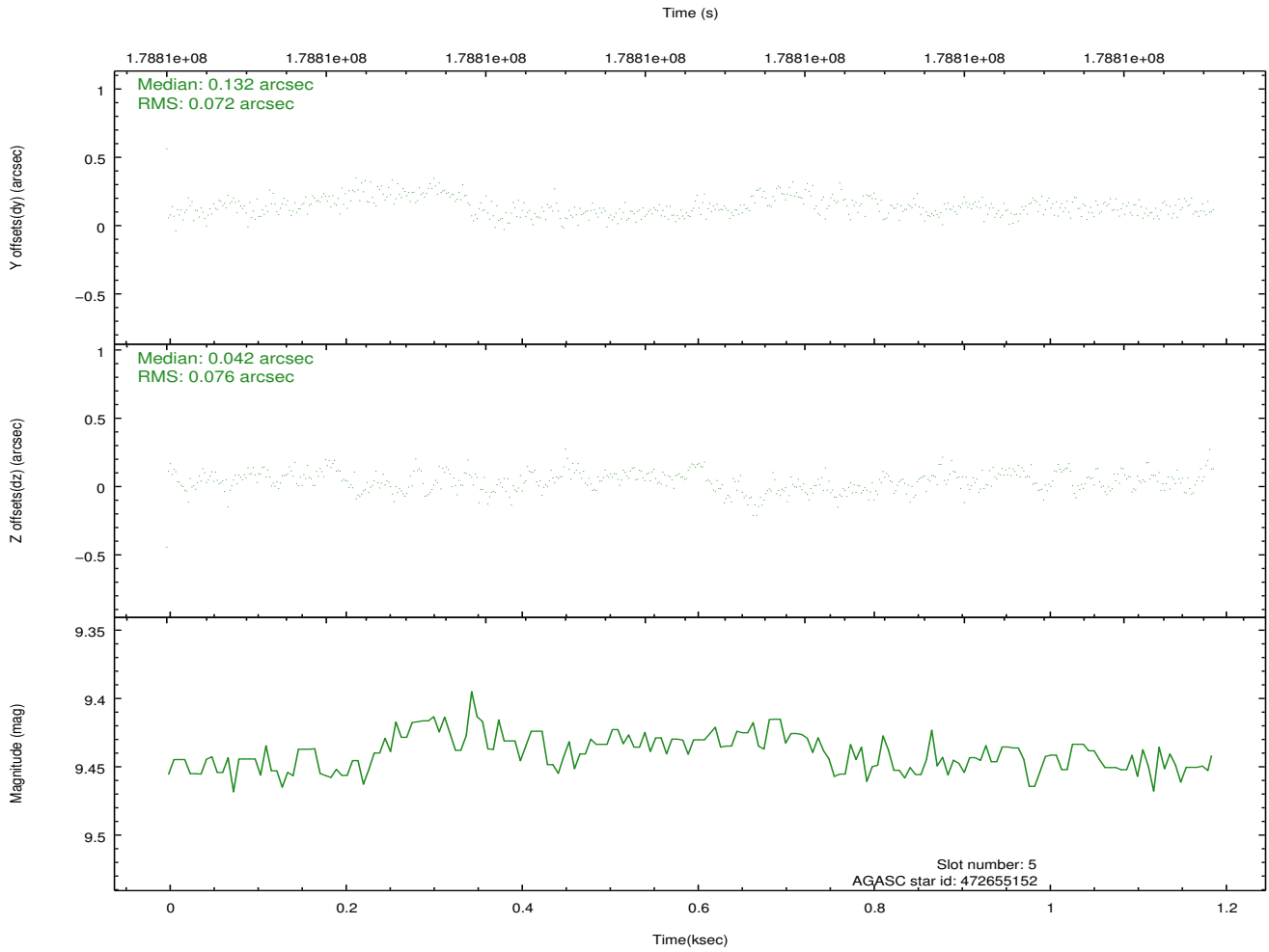
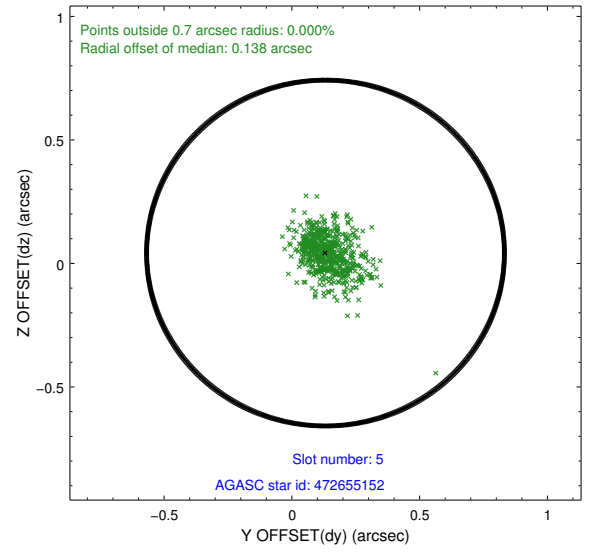
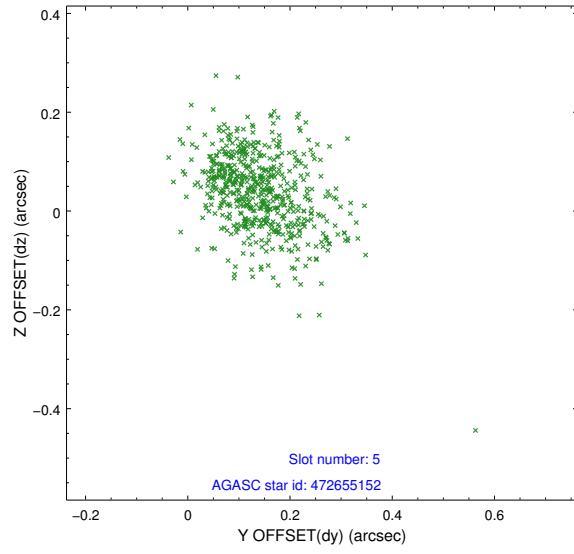
### 2.4.1 Slot 3



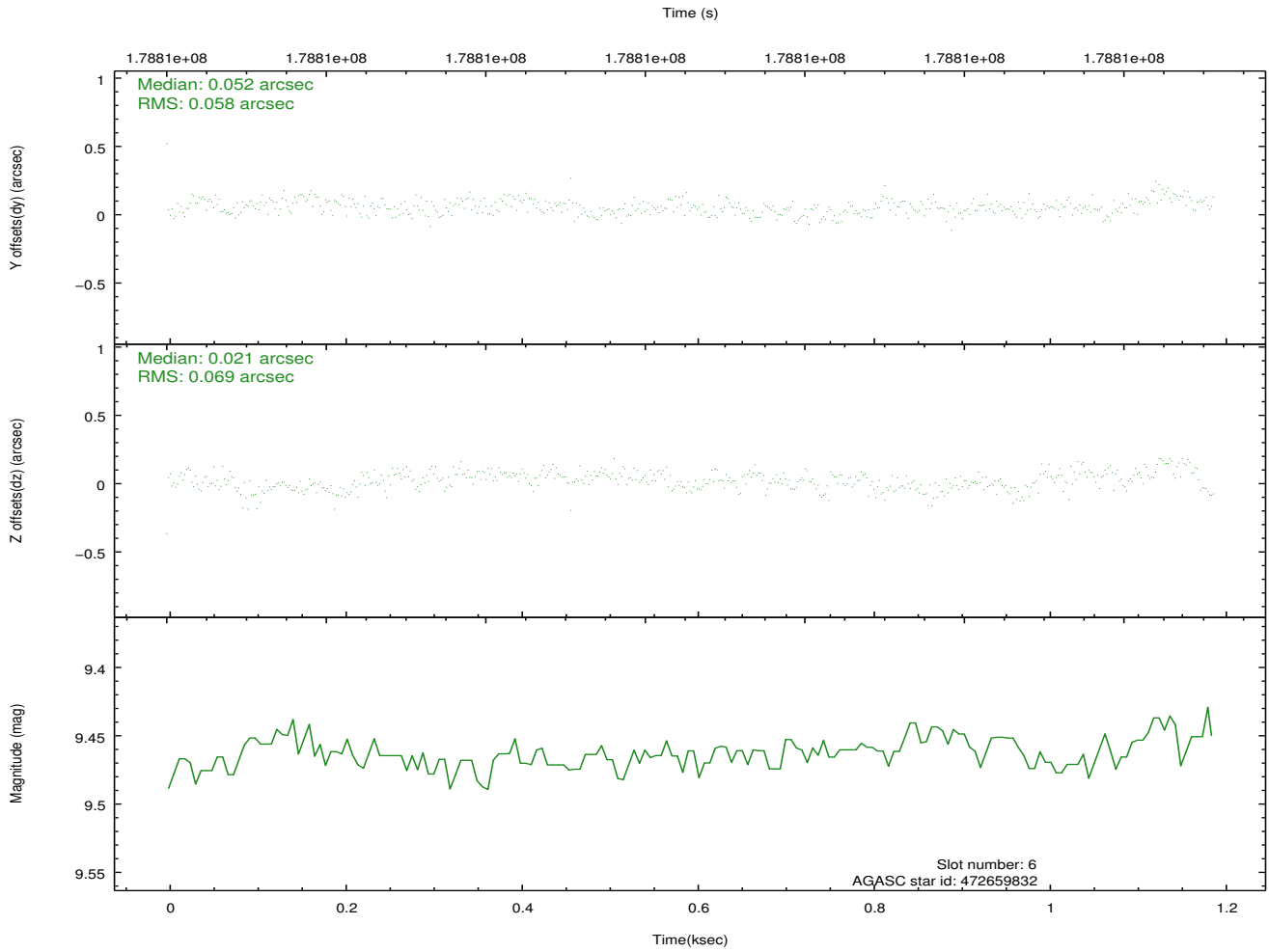
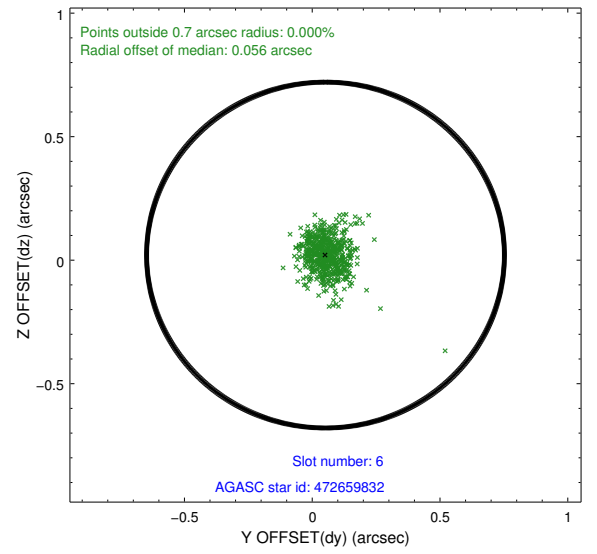
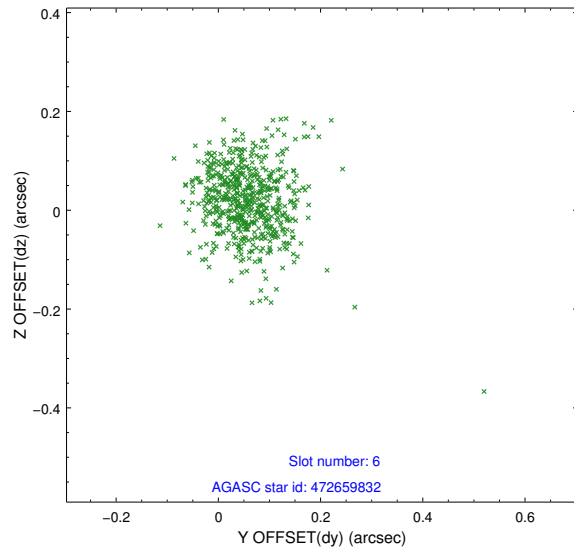
## 2.4.2 Slot 4



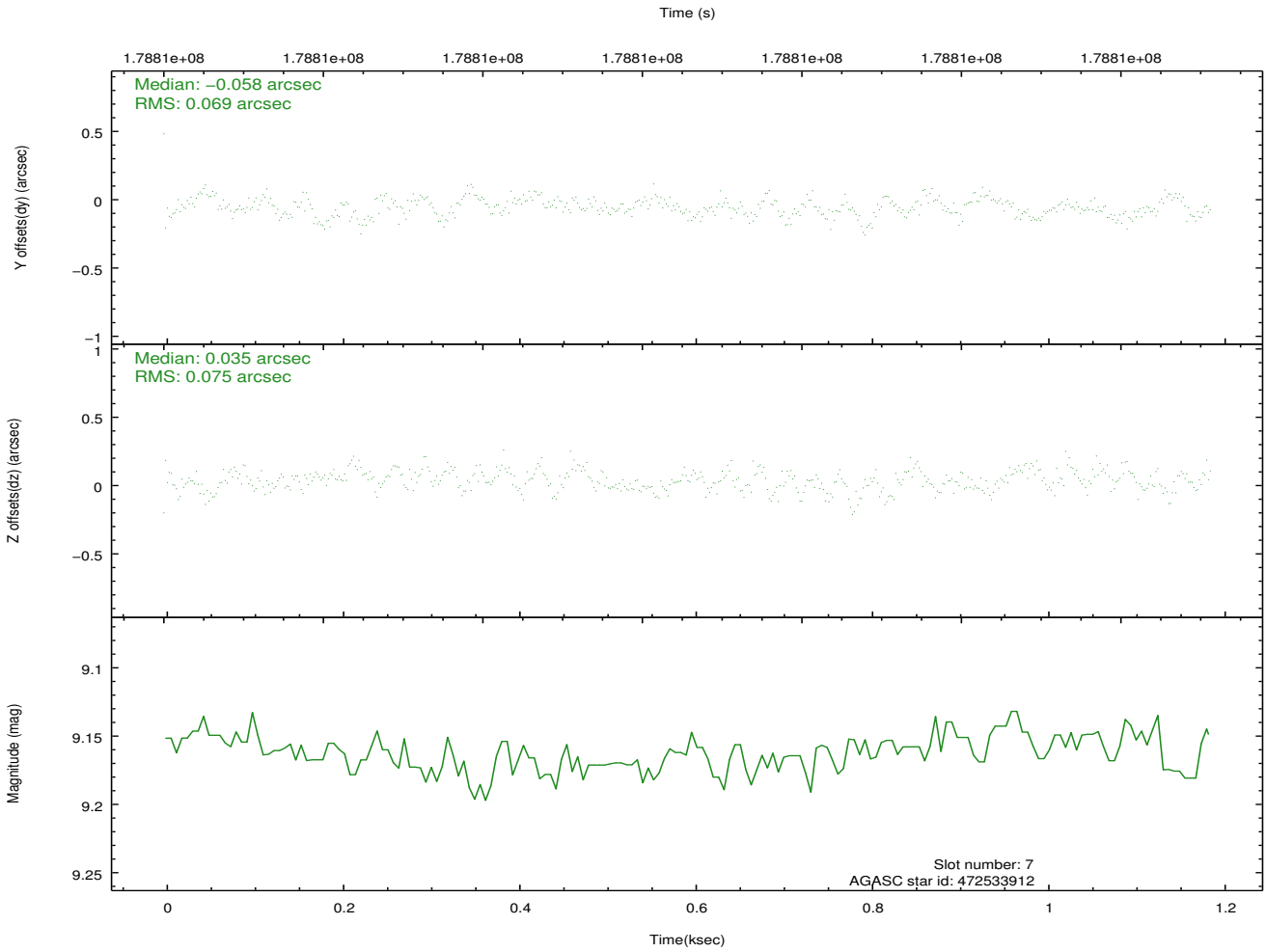
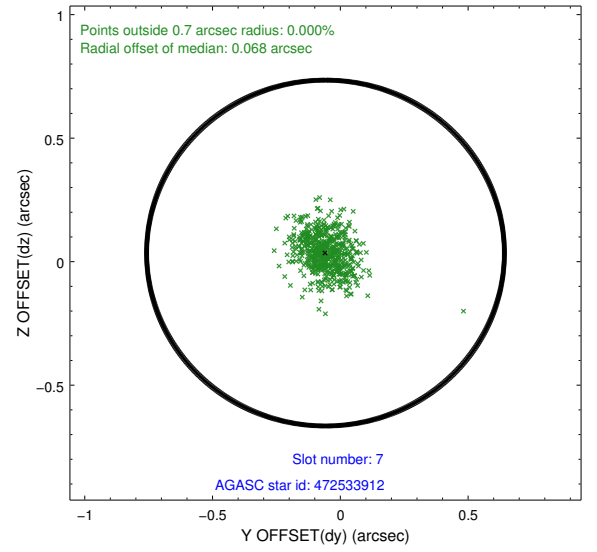
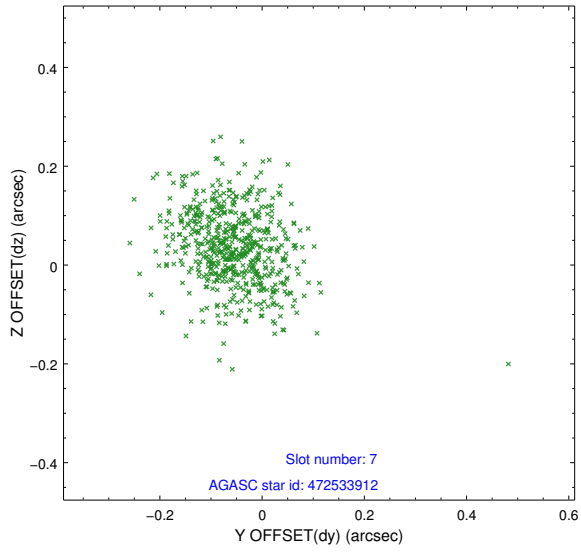
### 2.4.3 Slot 5



## 2.4.4 Slot 6

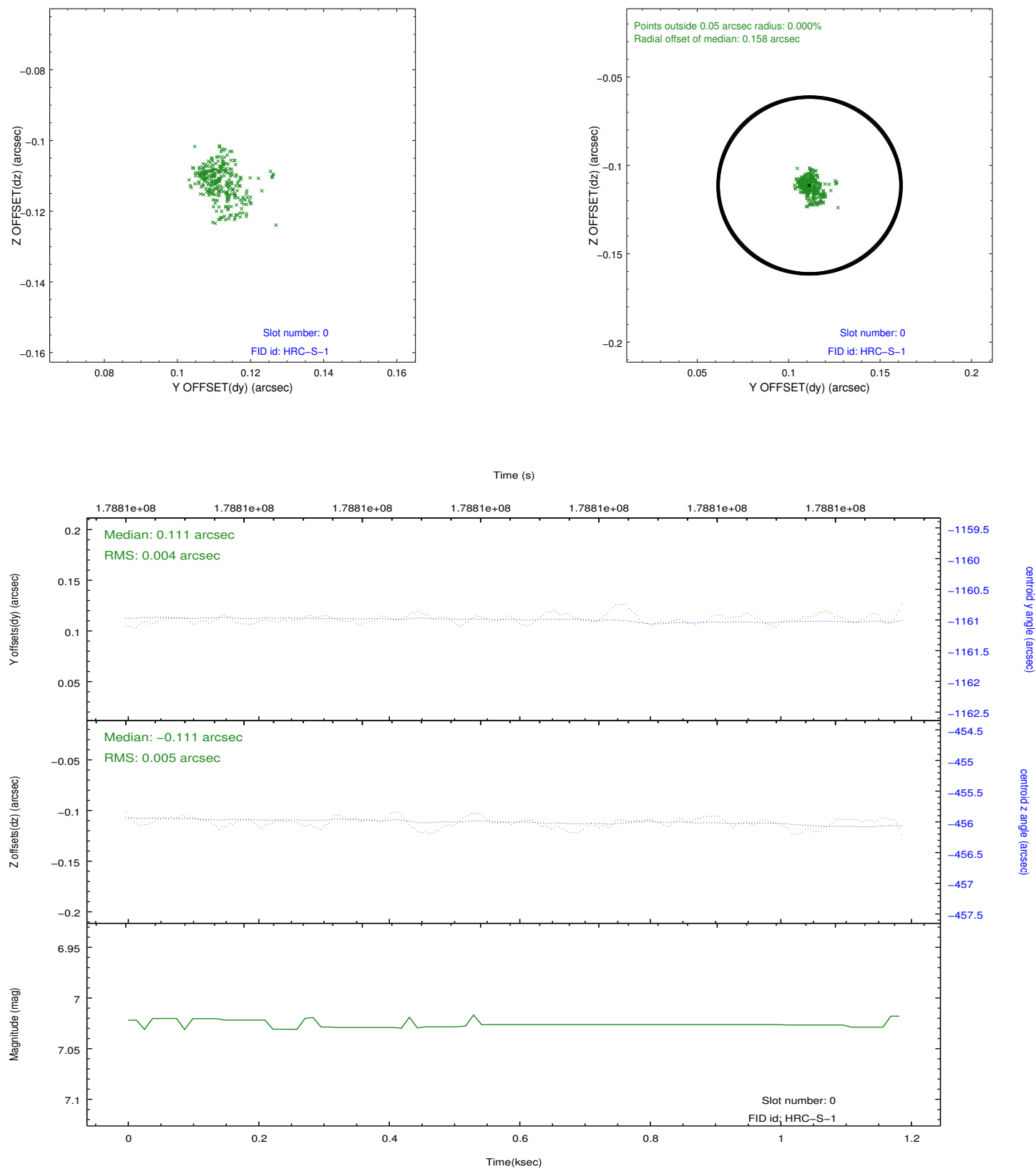


## 2.4.5 Slot 7

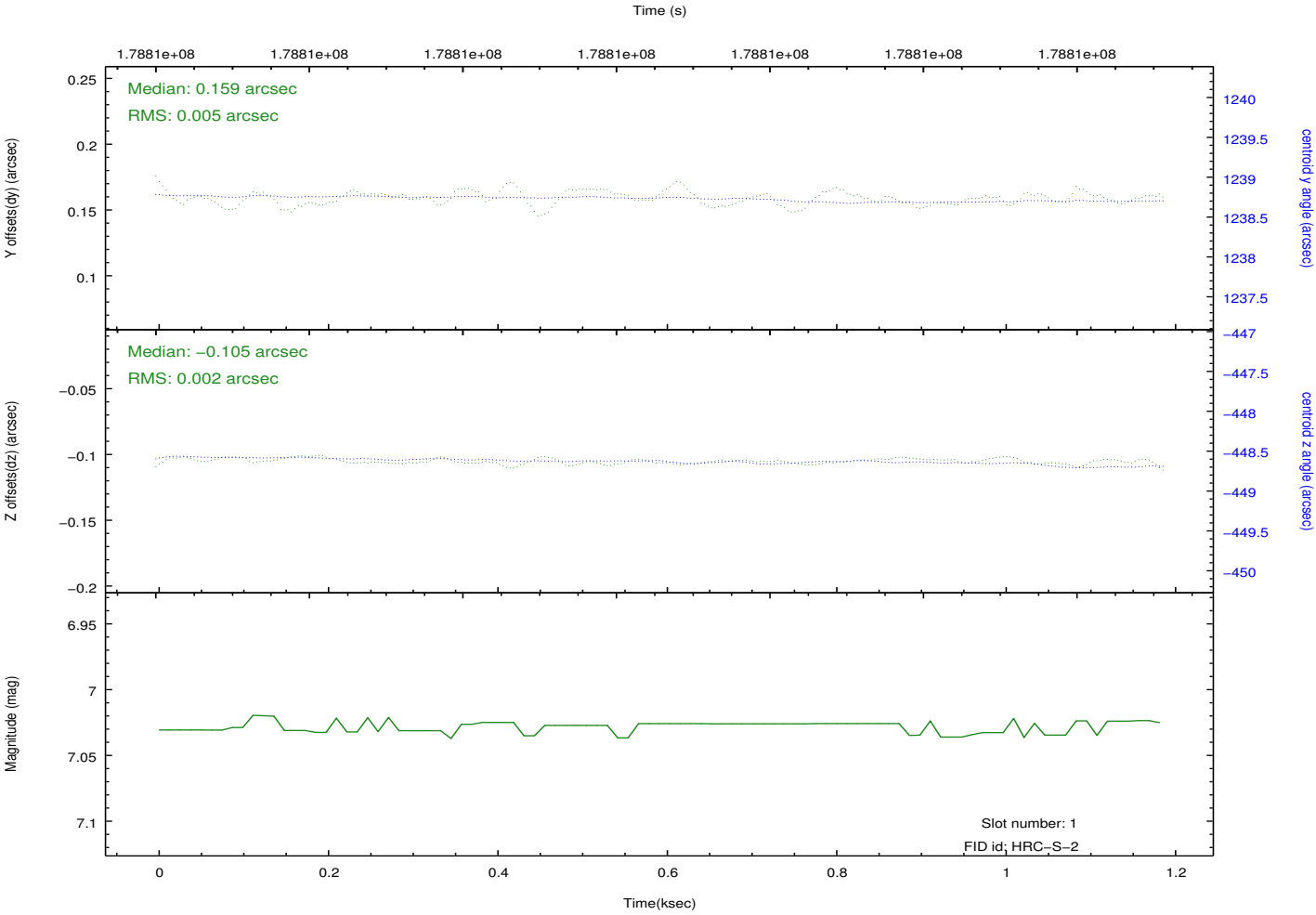
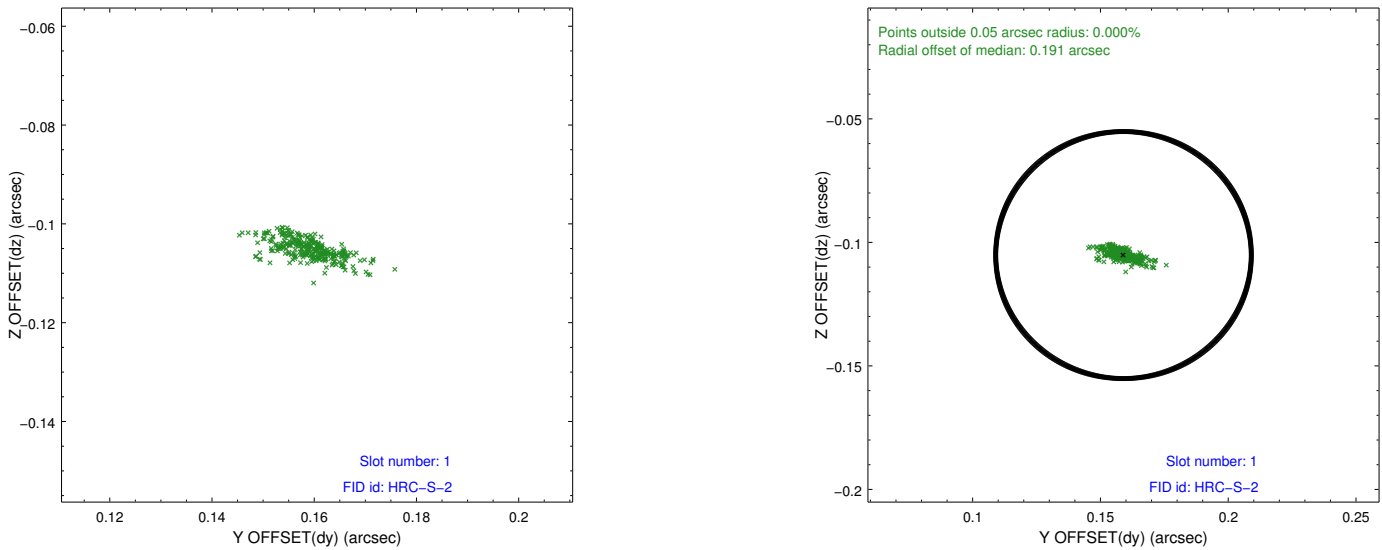


## 2.5 FID Slots

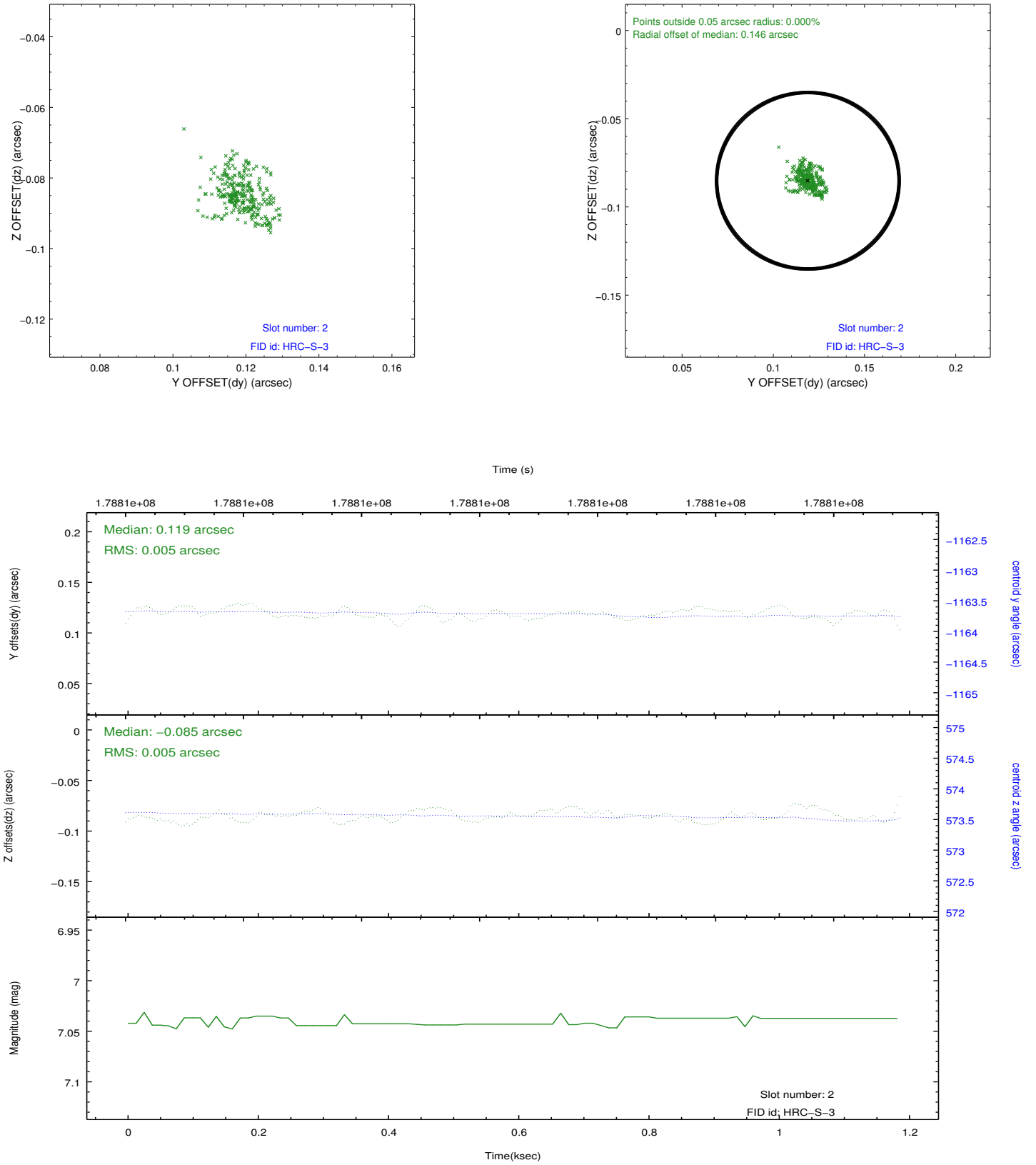
### 2.5.1 Slot 0



2.5.2 Slot 1



### 2.5.3 Slot 2



## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.11.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.143

### A.2 Comments