

# V&V Reference Report

## L2 ASCDS Version : 10.6

Observation 19810 - L2 Version 1  
Chandra X-Ray Center

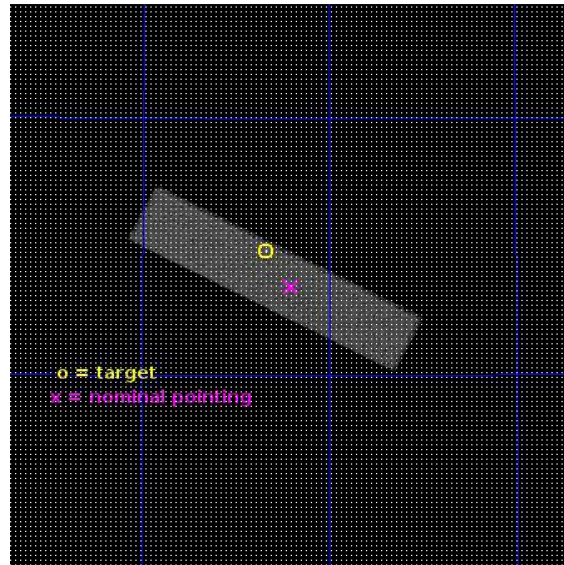
L2 Processing Date : Sep 16 2017

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# 1 Front

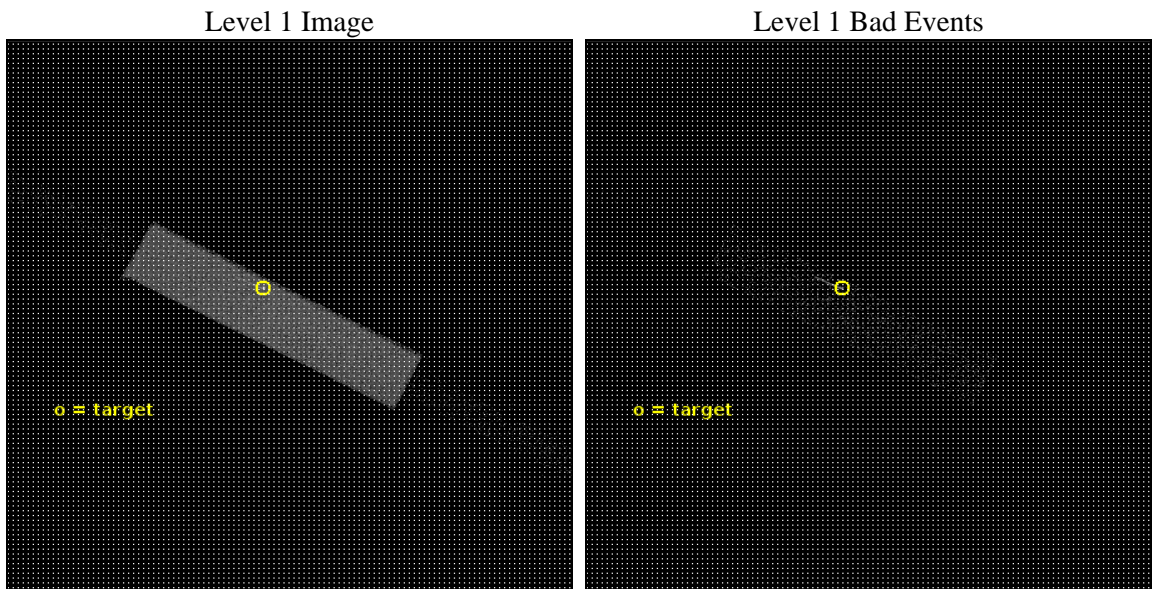
seq_num	291327	Sequence number
obs_id	19810	Observation id
title	AO-18 Calibration Observations to Monitor the Spatial Variations in the HRC-S Gain	Proposal title
observer	CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.10132552376	Nominal RA [deg]
dec_nom	45.672236737493	Nominal Dec [deg]
roll_nom	207.20201977594	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1169.7813185453	[s]
livetime	1160.4546768088	Ontime multiplied by DTCOR
l2events	72779	Number of level 2 events



## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



### 2.1.2 Parameters

obi_num	1	Obi number	sched_exp_time	1000.000000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	1169.7813185453	[s]
caldbver	4.7.6	&#160	l1events	109651	Number of level 1 events
date	2017-09-16T05:01:50	Date and time of file creation			
revision	1	Processing version of data			

### 2.1.3 Events

Level 1 Events

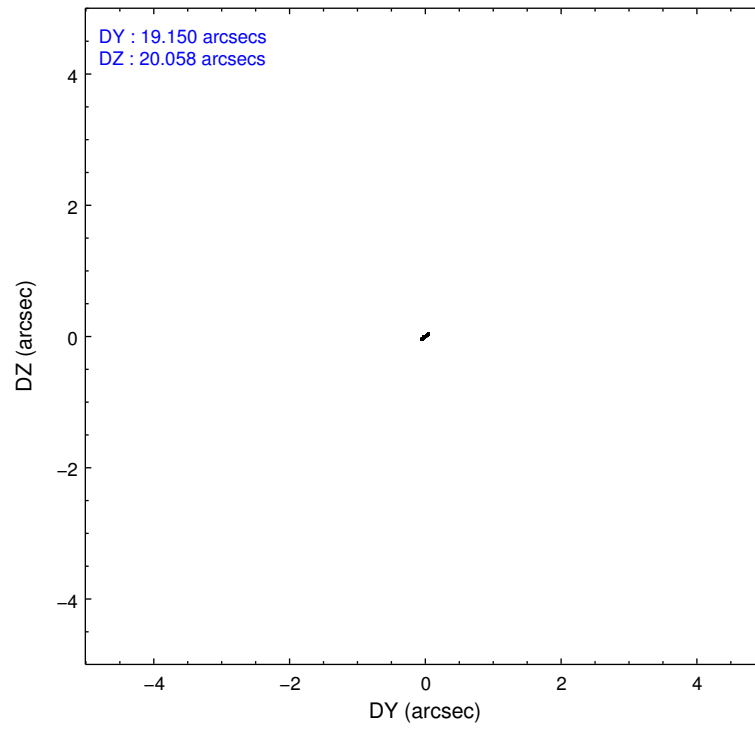
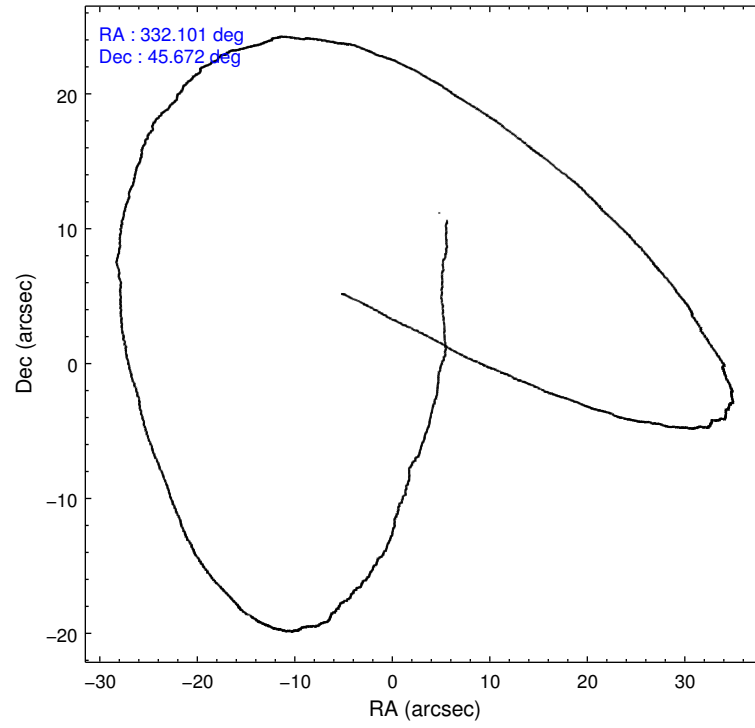
	<b>segment 1</b>	<b>segment 2</b>	<b>segment 3</b>
level 1 events	879	107916	856
rejected events	879	23319	856
rejected %	100%	21%	100%

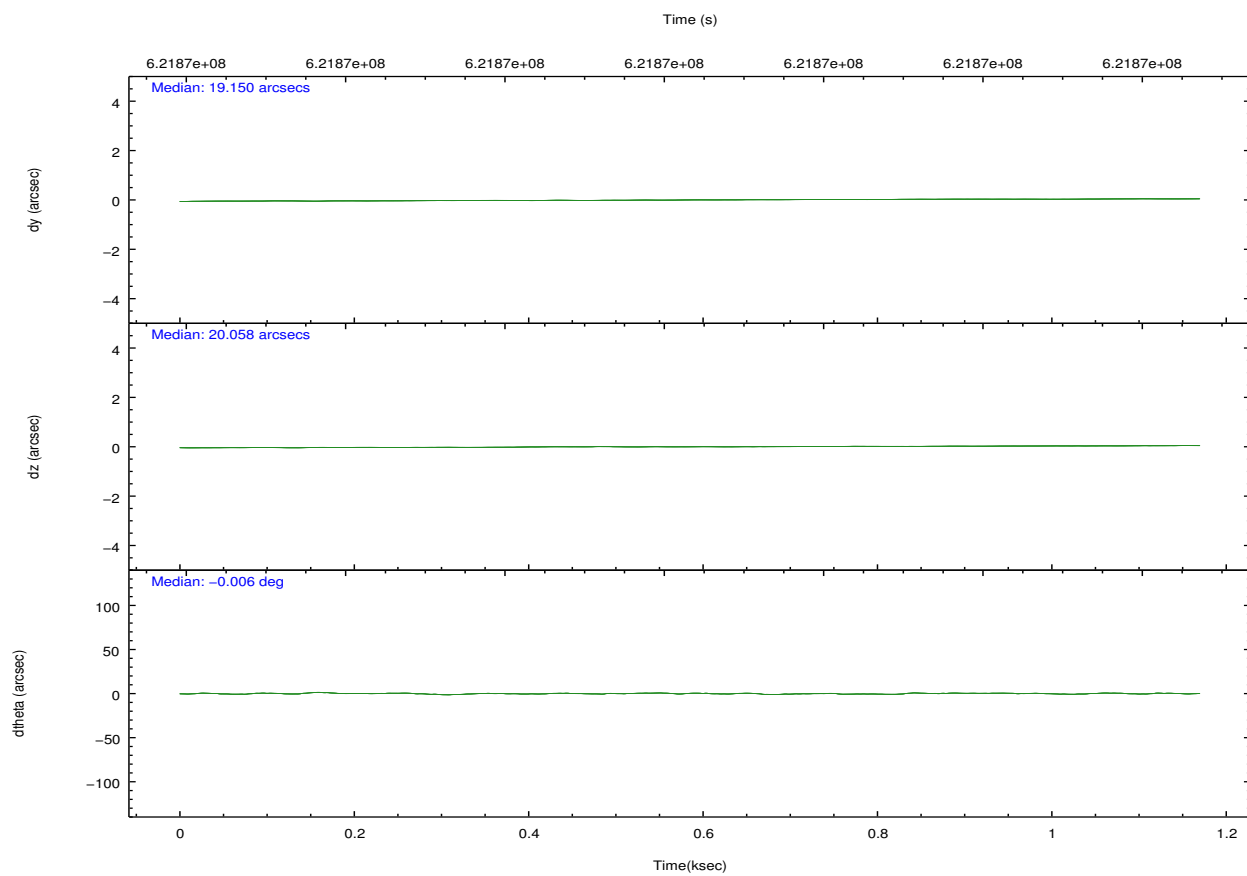
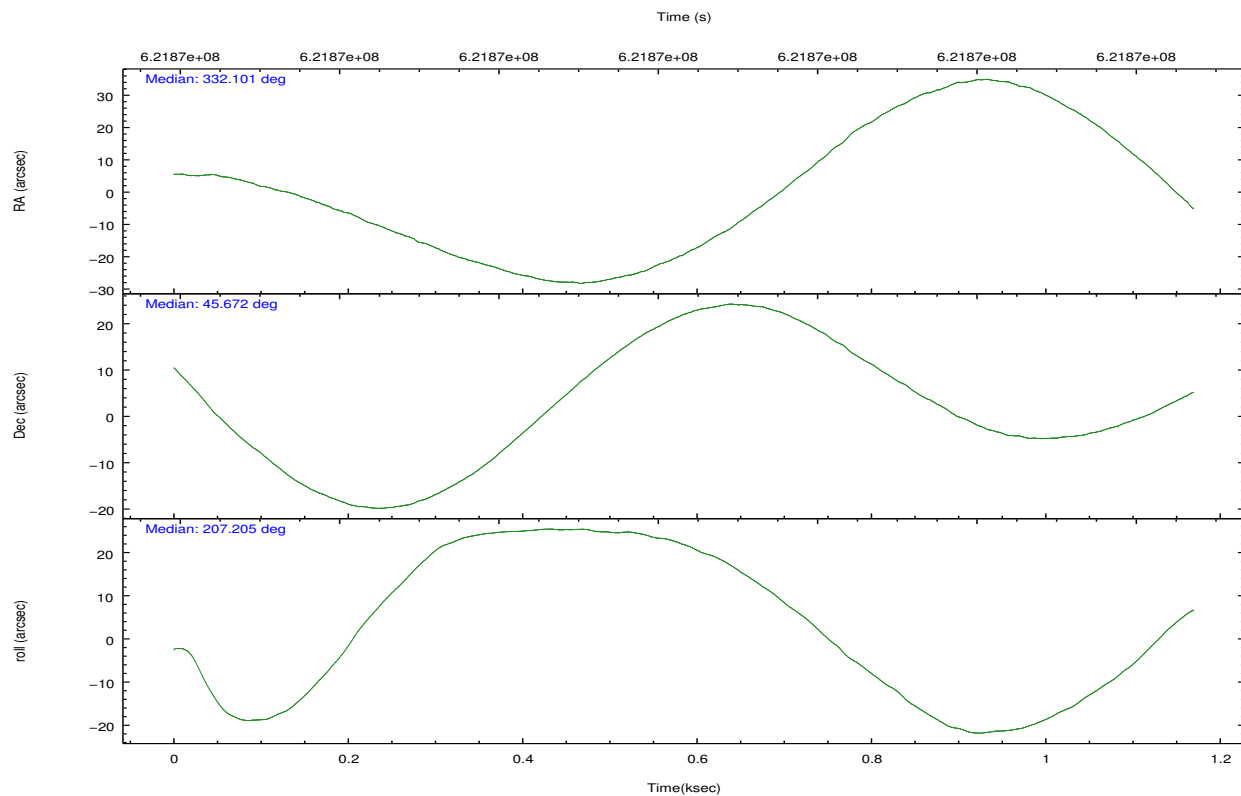
## 2.2 Compared Parameters

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	332.121154	332.1013255237638
[deg] Pointing Dec	45.698272	45.67223673749304
[deg] Pointing Roll	207.120517	207.2020197759395
[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)	621866022.184000	621865646.36981
Observation start date	2017-09-15T12:32:33	2017-09-15T12:27:26
[s] Observation end time (MET)	621867022.184000	621867156.7074
Observation end date	2017-09-15T12:49:13	2017-09-15T12:52:36

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

## 2.3 Aspect





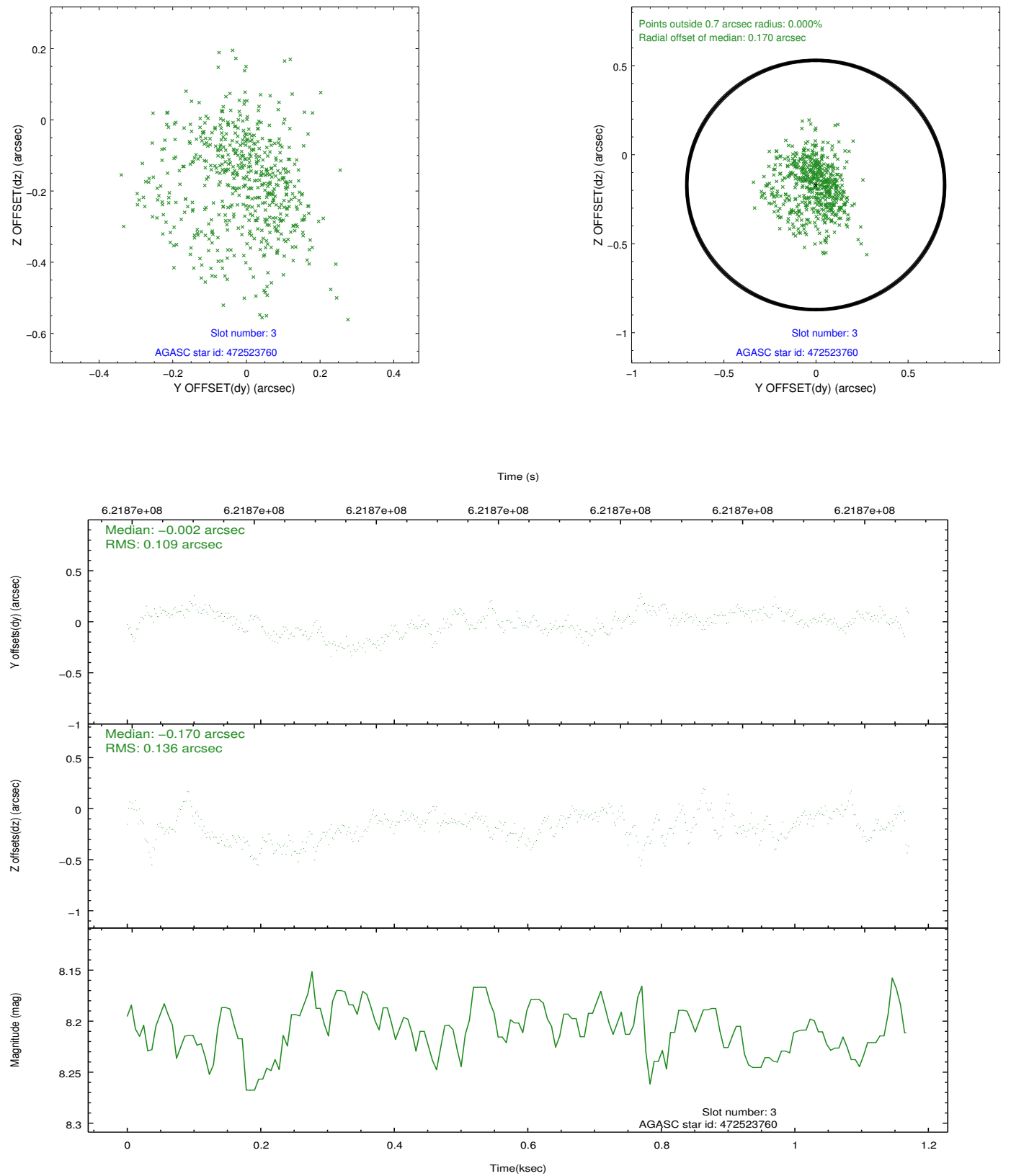
Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		HRC-S-1	7.06	286	-0.059	-0.271	0.006	0.010	0.000000	0.000000	-1173.75	-469.23
1	FID		HRC-S-2	7.01	286	0.346	-0.112	0.005	0.010	0.000000	0.000000	1222.21	-463.25
2	FID		HRC-S-3	7.03	285	0.102	0.081	0.005	0.009	0.000000	0.000000	-1172.07	559.01
3	GUIDE	used	472523760	8.21	571	-0.002	-0.170	0.188	0.302	331.645363	45.403260	1553.61	389.50
4	GUIDE	used	472525528	6.63	572	-0.614	0.001	0.135	0.273	331.551102	45.248694	2024.03	773.78
5	GUIDE	used	472655152	9.37	572	0.346	0.213	0.251	0.418	332.504239	45.862991	-1121.85	-94.29
6	GUIDE	used	420754040	9.02	572	-0.433	-0.413	0.144	0.249	331.917939	44.882543	1795.97	2372.43
7	GUIDE	used	472665256	8.97	571	0.699	0.362	0.172	0.283	332.808125	46.195041	-2338.04	-817.40

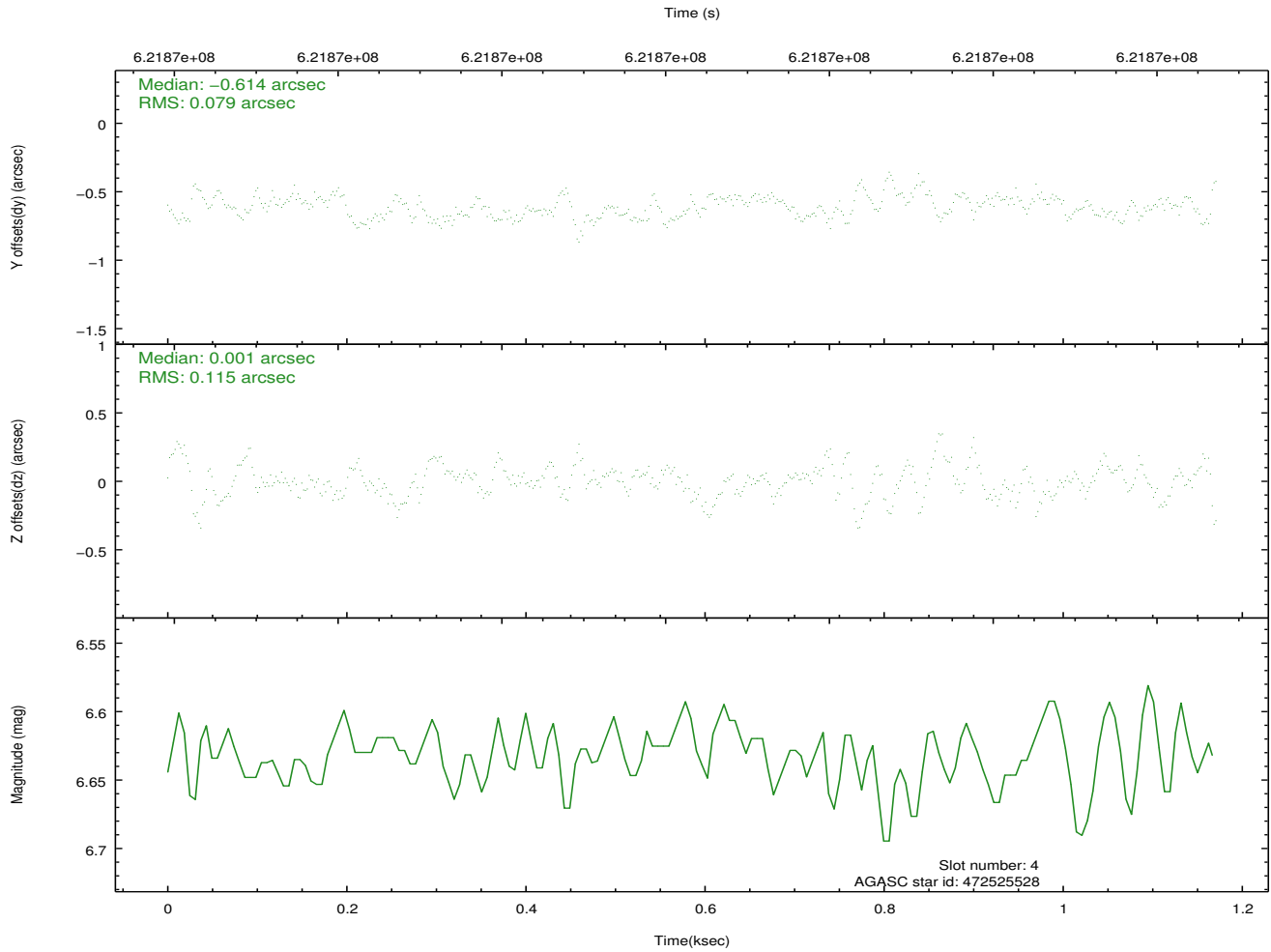
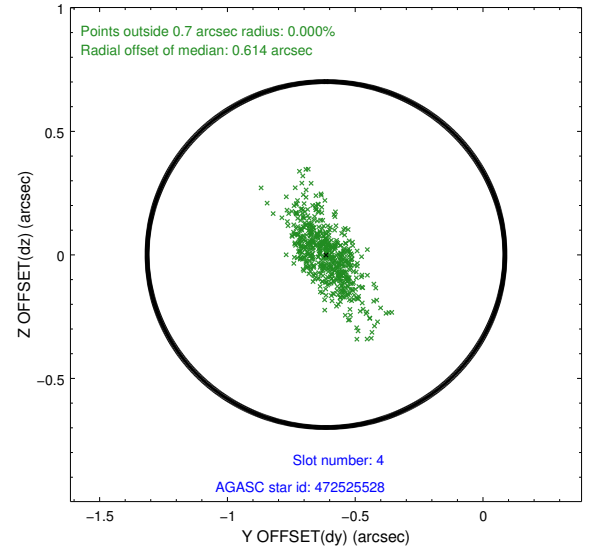
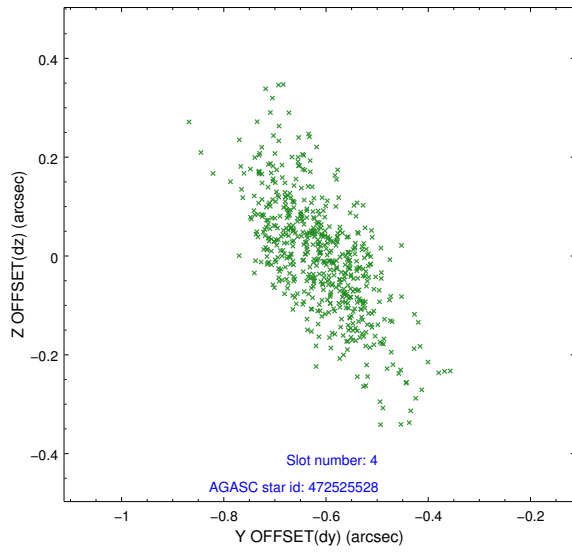


## 2.4 Star Slots

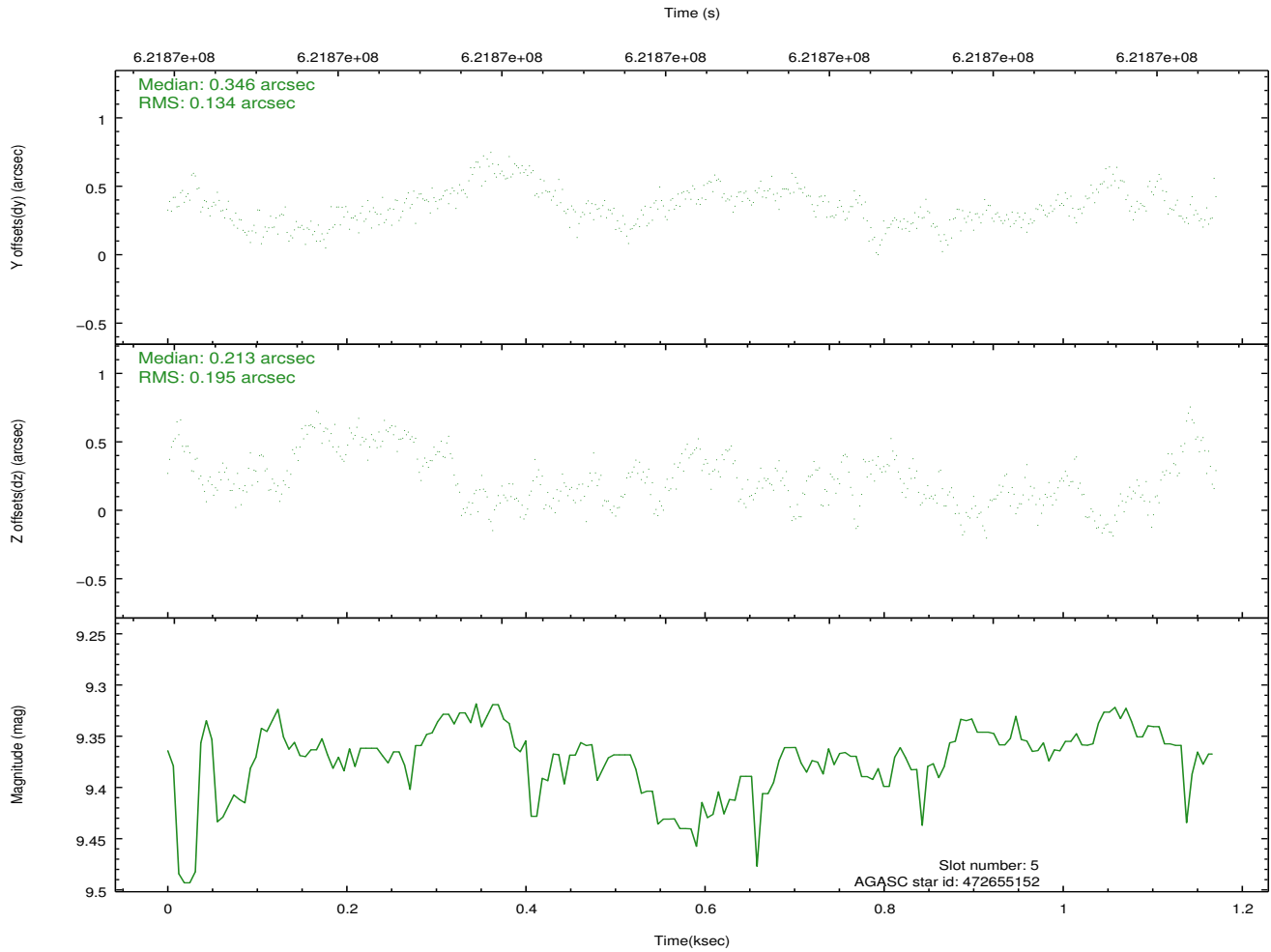
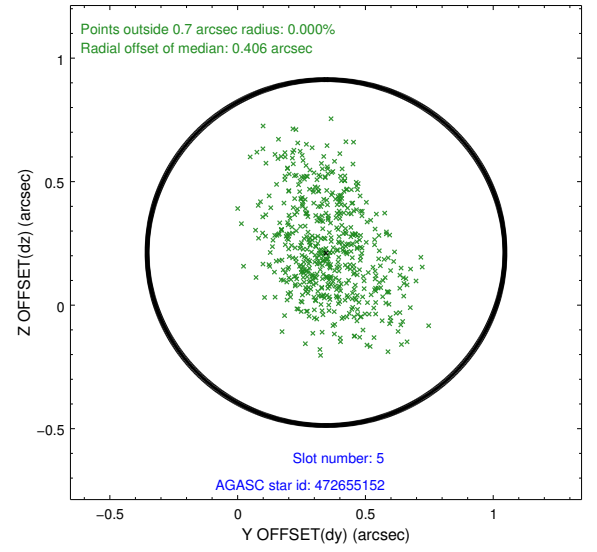
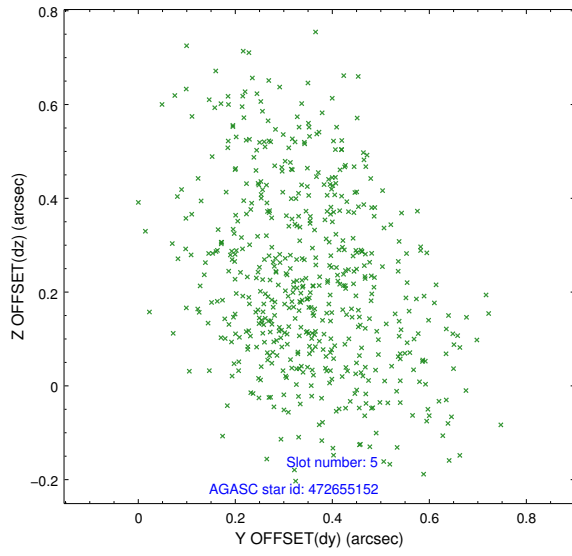
### 2.4.1 Slot 3



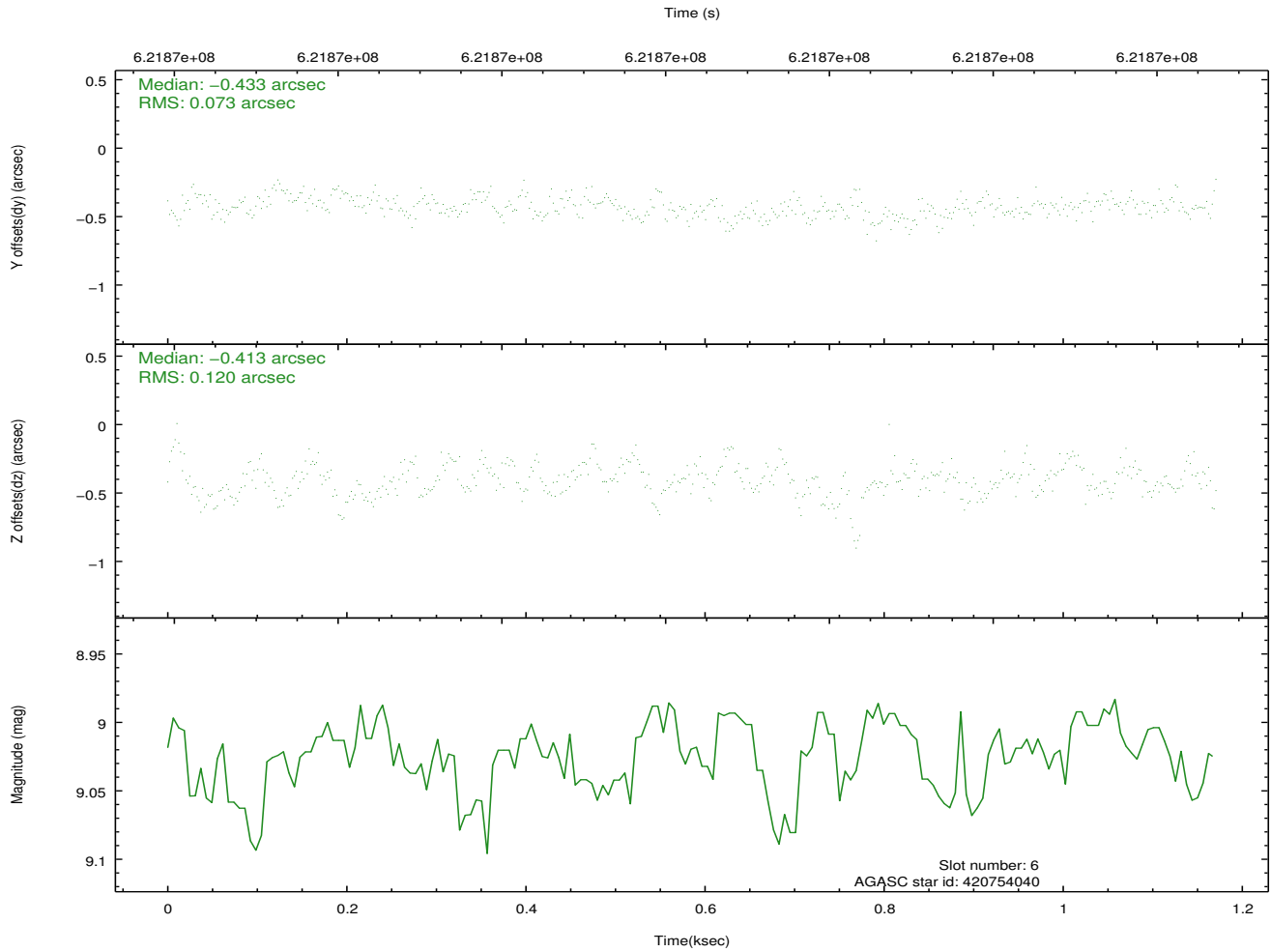
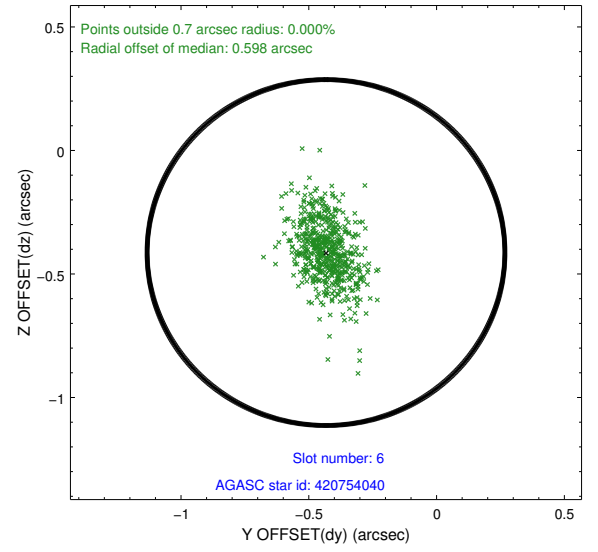
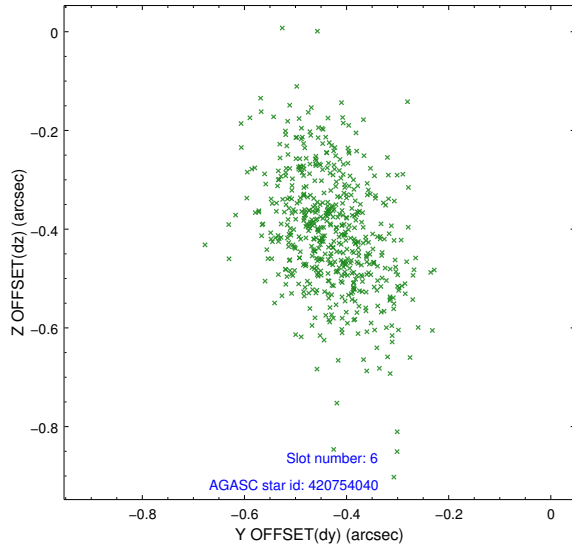
## 2.4.2 Slot 4



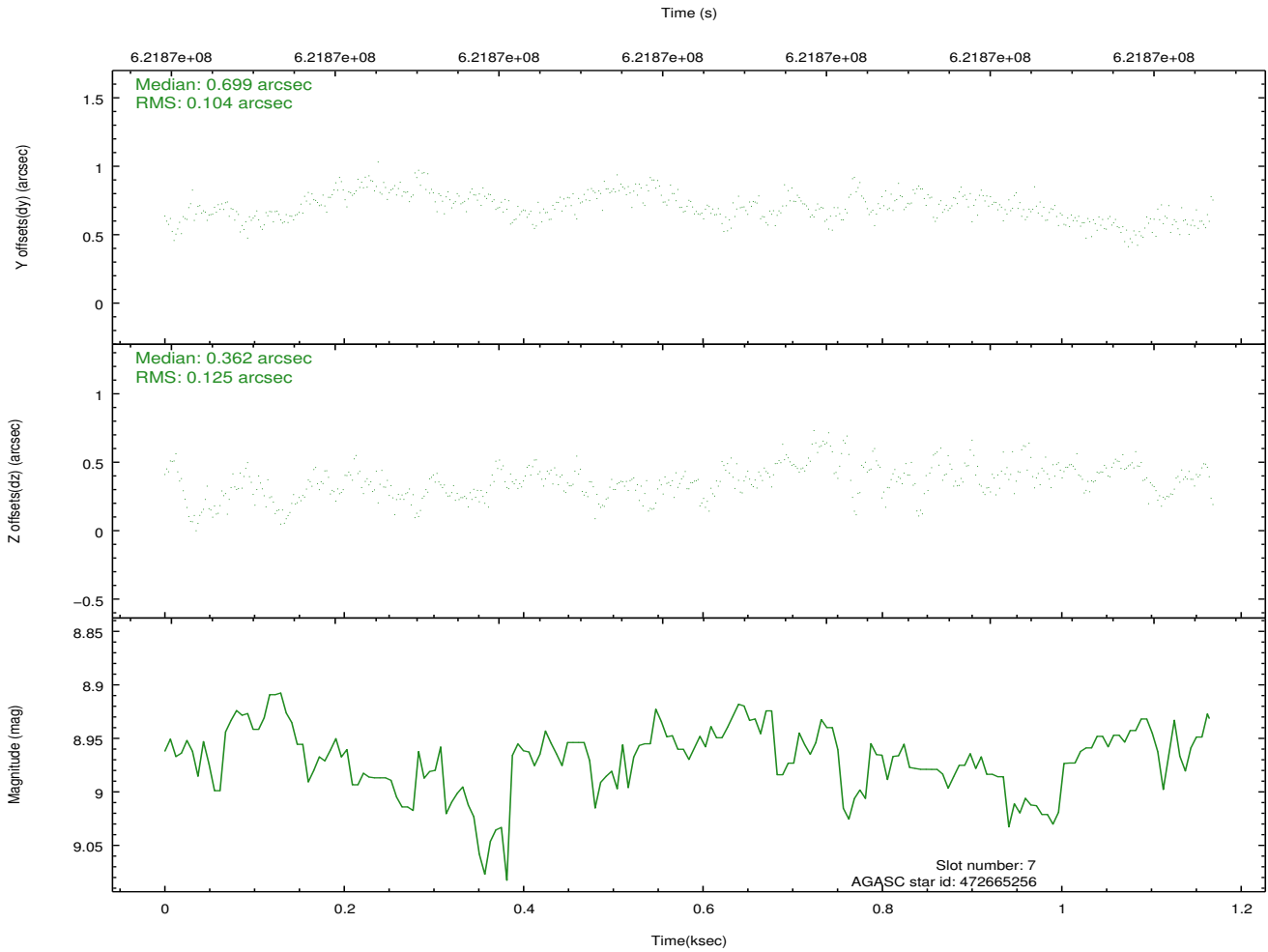
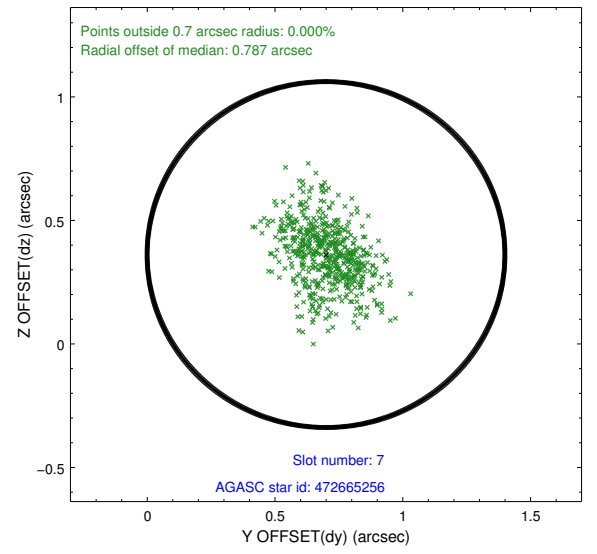
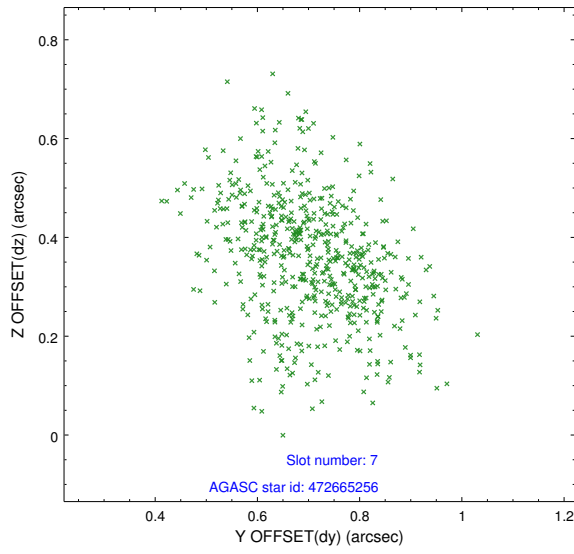
### 2.4.3 Slot 5



## 2.4.4 Slot 6

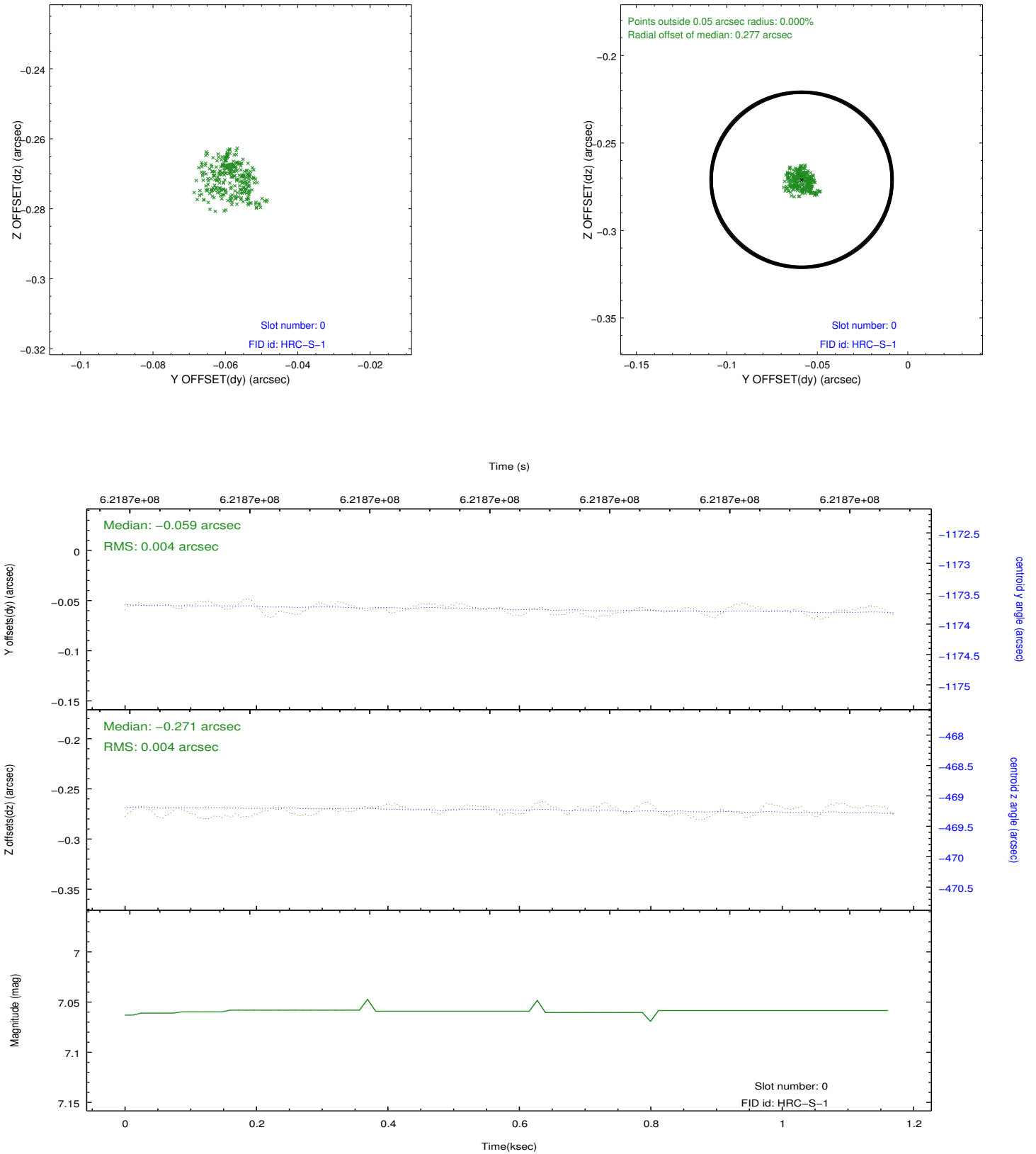


## 2.4.5 Slot 7

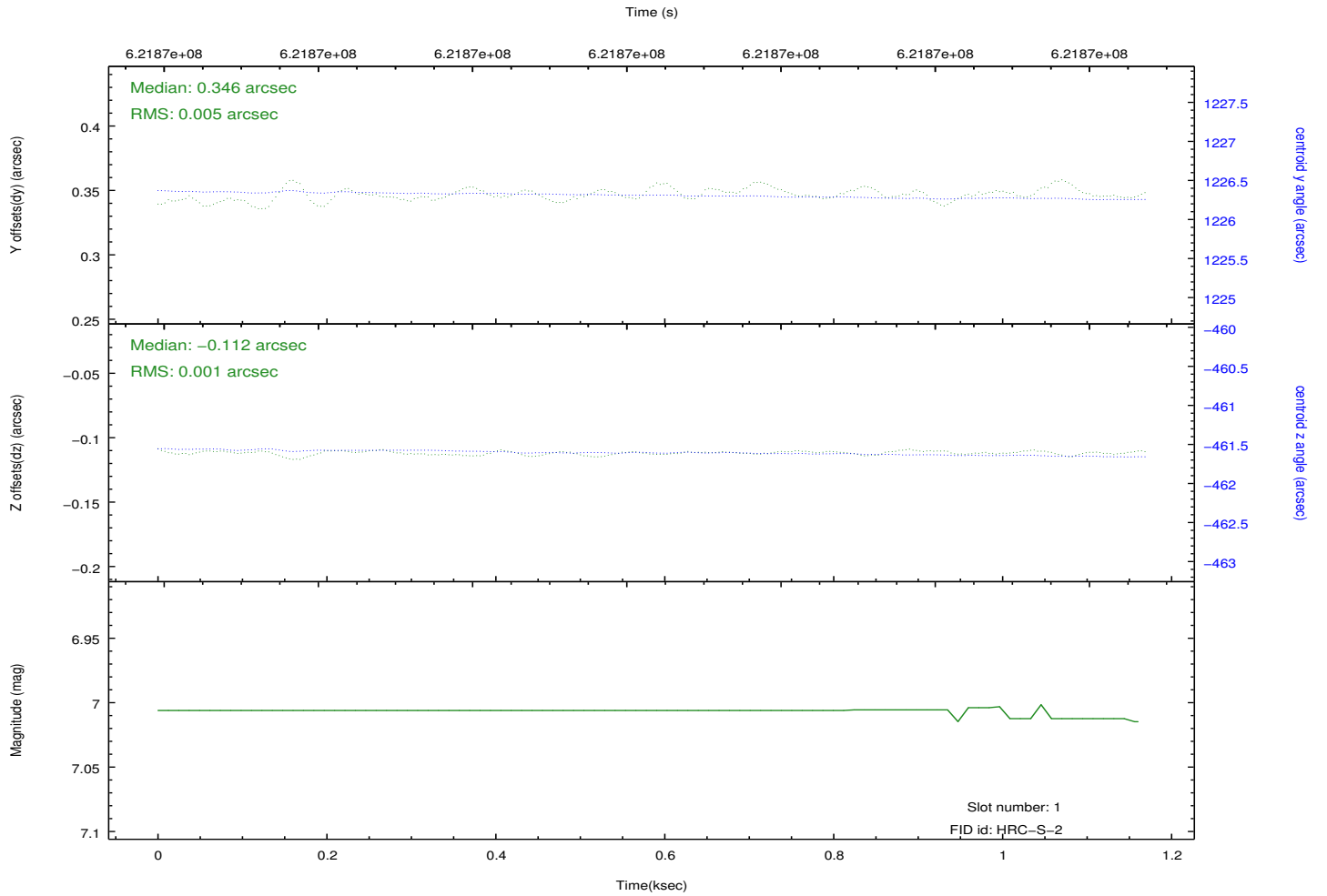
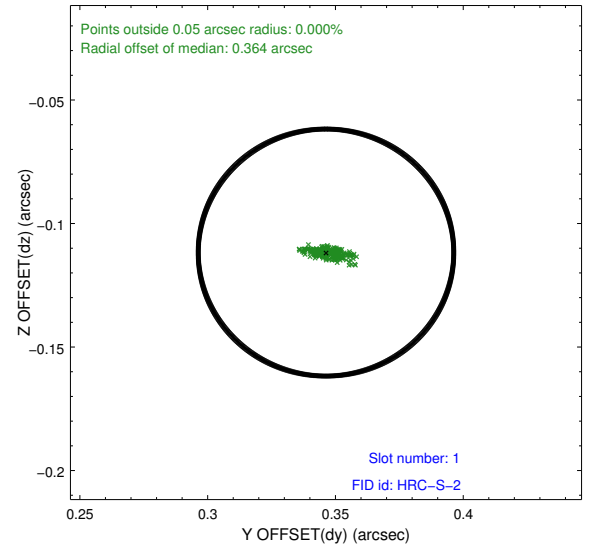
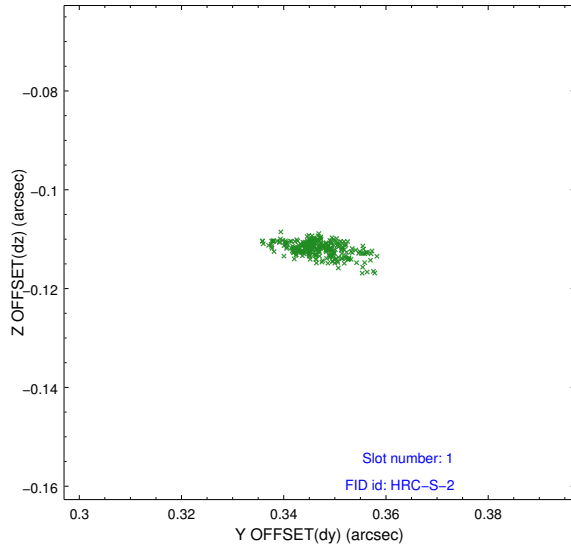


## 2.5 FID Slots

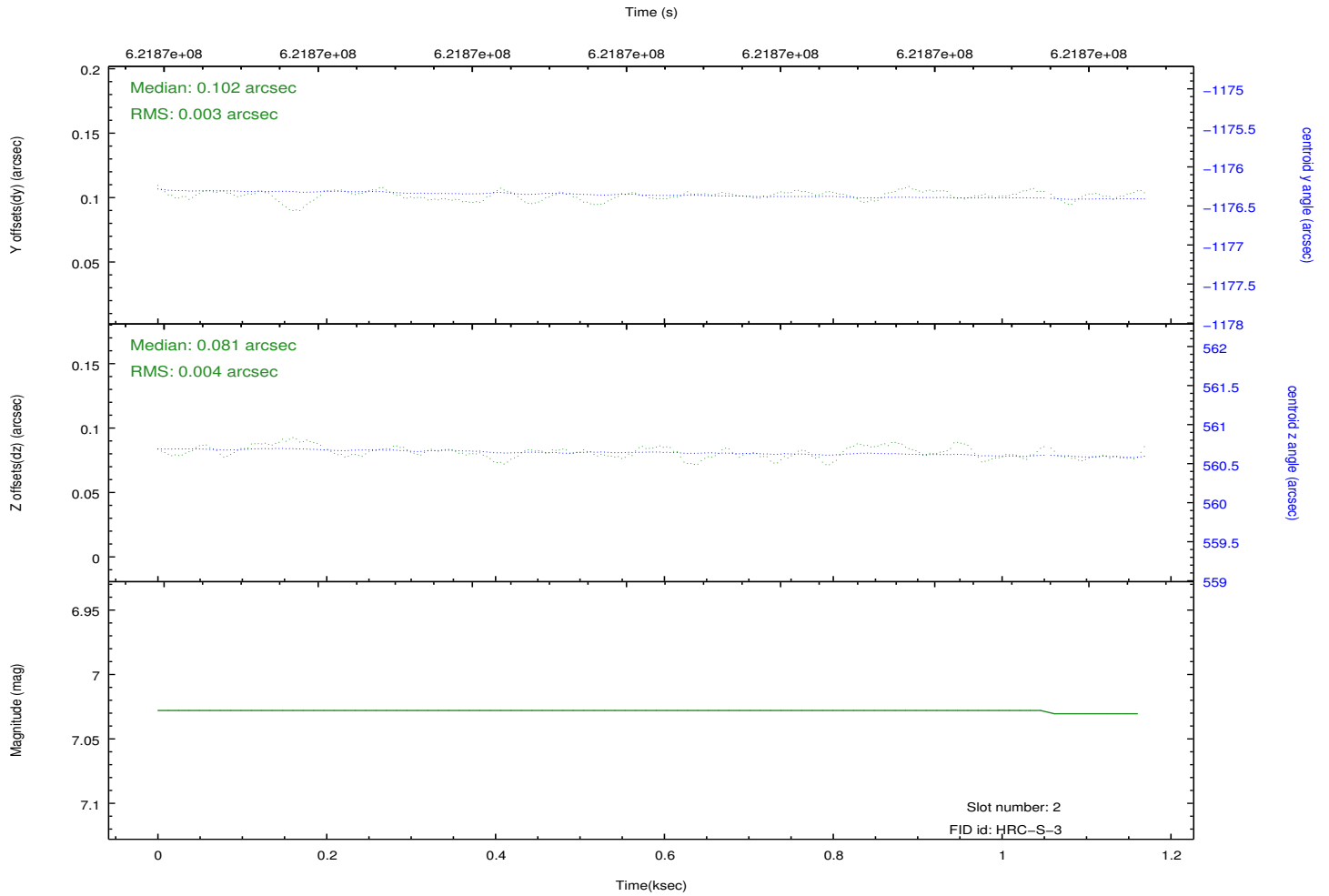
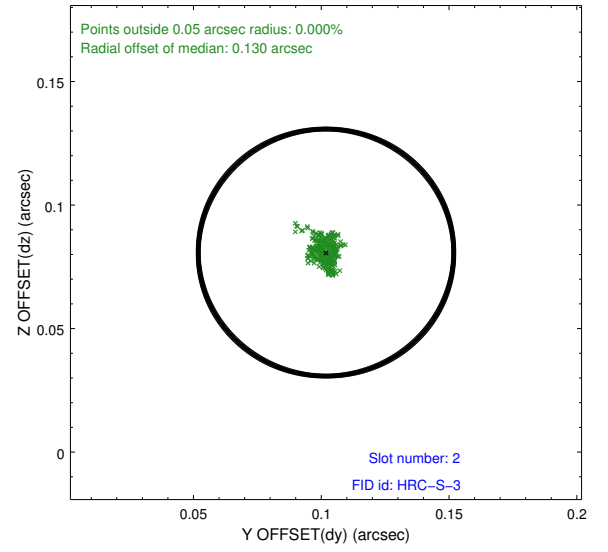
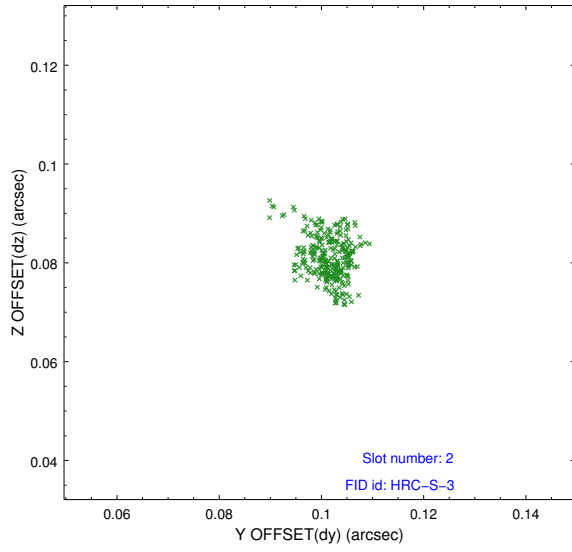
### 2.5.1 Slot 0



## 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)	2017.09.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.1697813185453

### A.2 Comments