

# V&V Reference Report

## L2 ASCDS Version : 10.6

Observation 21102 - L2 Version 1  
Chandra X-Ray Center

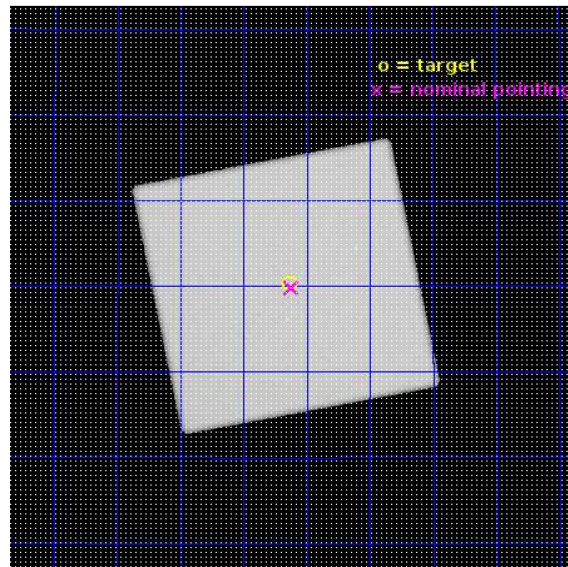
L2 Processing Date : Jun 11 2018

## Contents

<b>1</b>	<b>Front</b>	<b>2</b>
<b>2</b>	<b>OBI</b>	<b>3</b>
2.1	OBI . . . . .	3
2.1.1	Images . . . . .	3
2.1.2	Parameters . . . . .	4
2.1.3	Events . . . . .	4
2.2	Compared Parameters . . . . .	5
2.3	Aspect . . . . .	6
2.4	Star Slots . . . . .	9
2.4.1	Slot 3 . . . . .	9
2.4.2	Slot 4 . . . . .	10
2.4.3	Slot 5 . . . . .	11
2.4.4	Slot 6 . . . . .	12
2.4.5	Slot 7 . . . . .	13
2.5	FID Slots . . . . .	14
2.5.1	Slot 0 . . . . .	14
2.5.2	Slot 1 . . . . .	15
2.5.3	Slot 2 . . . . .	16
<b>A</b>	<b>Summary</b>	<b>17</b>
A.1	Status . . . . .	17
A.2	Comments . . . . .	17

# 1 Front

seq_num	201206	Sequence number
obs_id	21102	Observation id
title	Beyond the Coronal Graveyard	Proposal title
observer	Thomas Ayres	Principal investigator
object	ALPHA BOO	Source name
ra_targ	213.909167	Observer's specified target RA [deg]
dec_targ	19.172139	Observer's specified target Dec [deg]
ra_nom	213.90510123225	Nominal RA [deg]
dec_nom	19.163761457329	Nominal Dec [deg]
roll_nom	213.90584406655	Nominal Roll [deg]
revision	1	Processing version of data
ontime	30146.533034801	[s]
livetime	29768.262522702	Ontime multiplied by DTCOR
l2events	3191648	Number of level 2 events

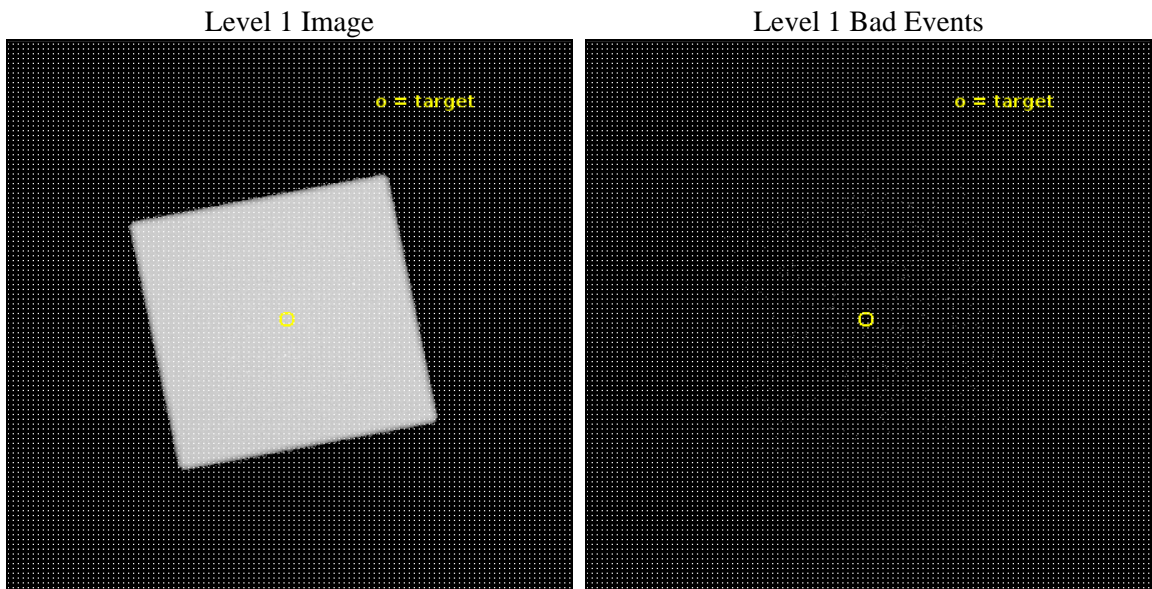




## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



### 2.1.2 Parameters

obi_num	0	Obi number	sched_exp_time	30000.000000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	30146.533034801	[s]
caldsver	4.7.8	&#160	l1events	4022975	Number of level 1 events
date	2018-06-11T13:44:43	Date and time of file creation			
revision	1	Processing version of data			

### 2.1.3 Events

#### Level 1 Events

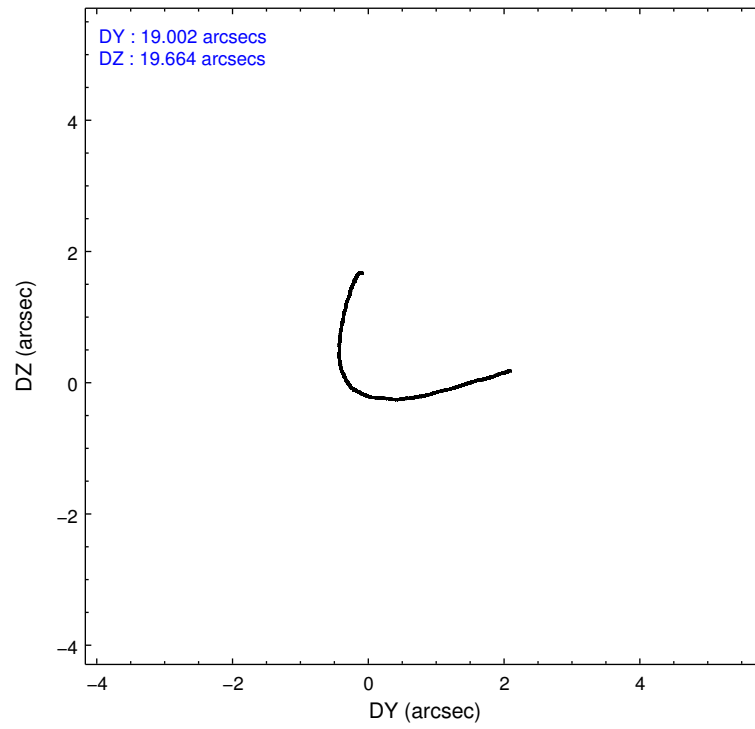
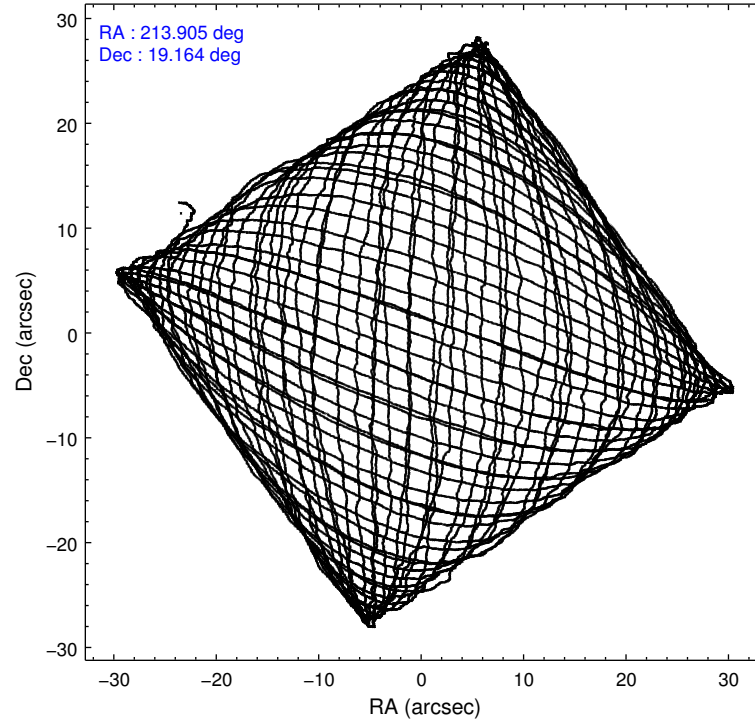
	<b>segment 0</b>
level 1 events	4022975
rejected events	119510
rejected %	2%

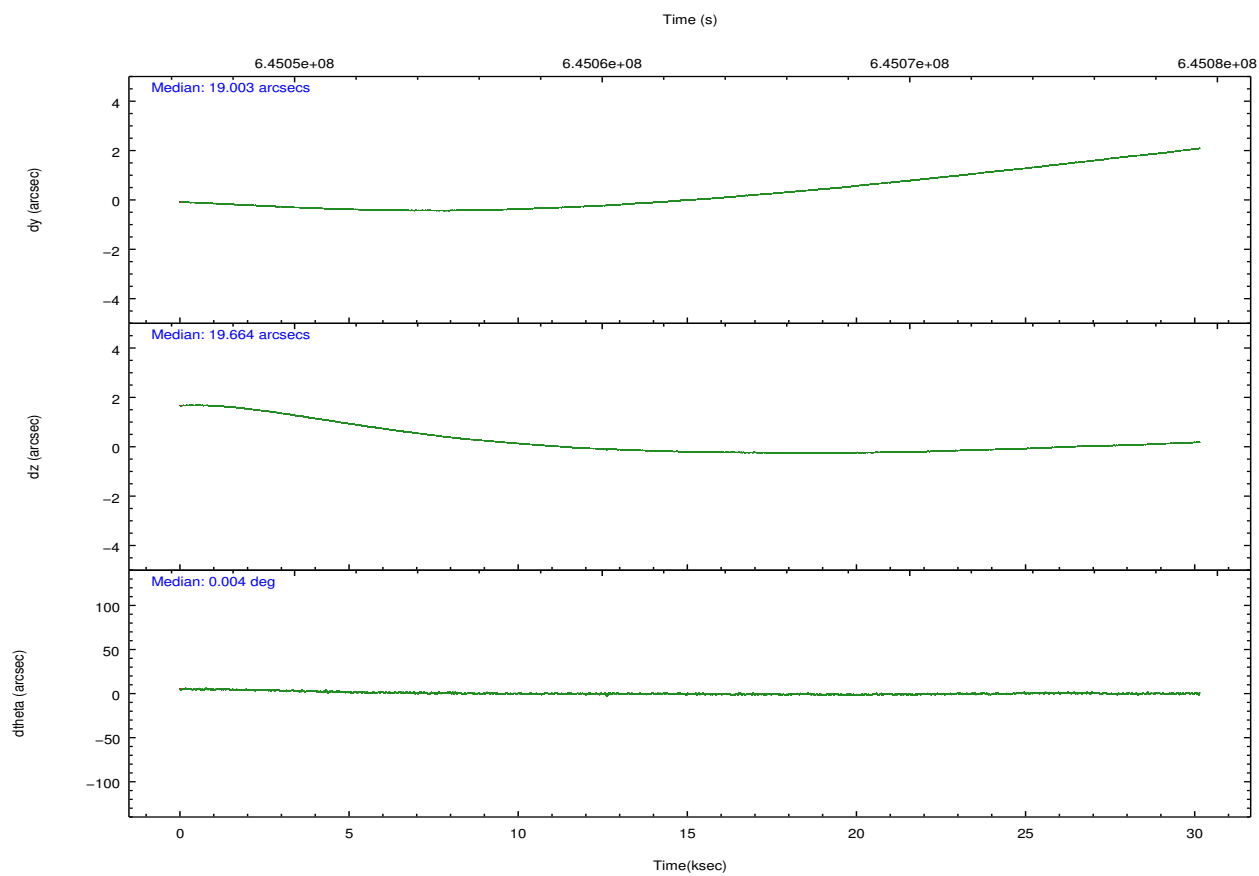
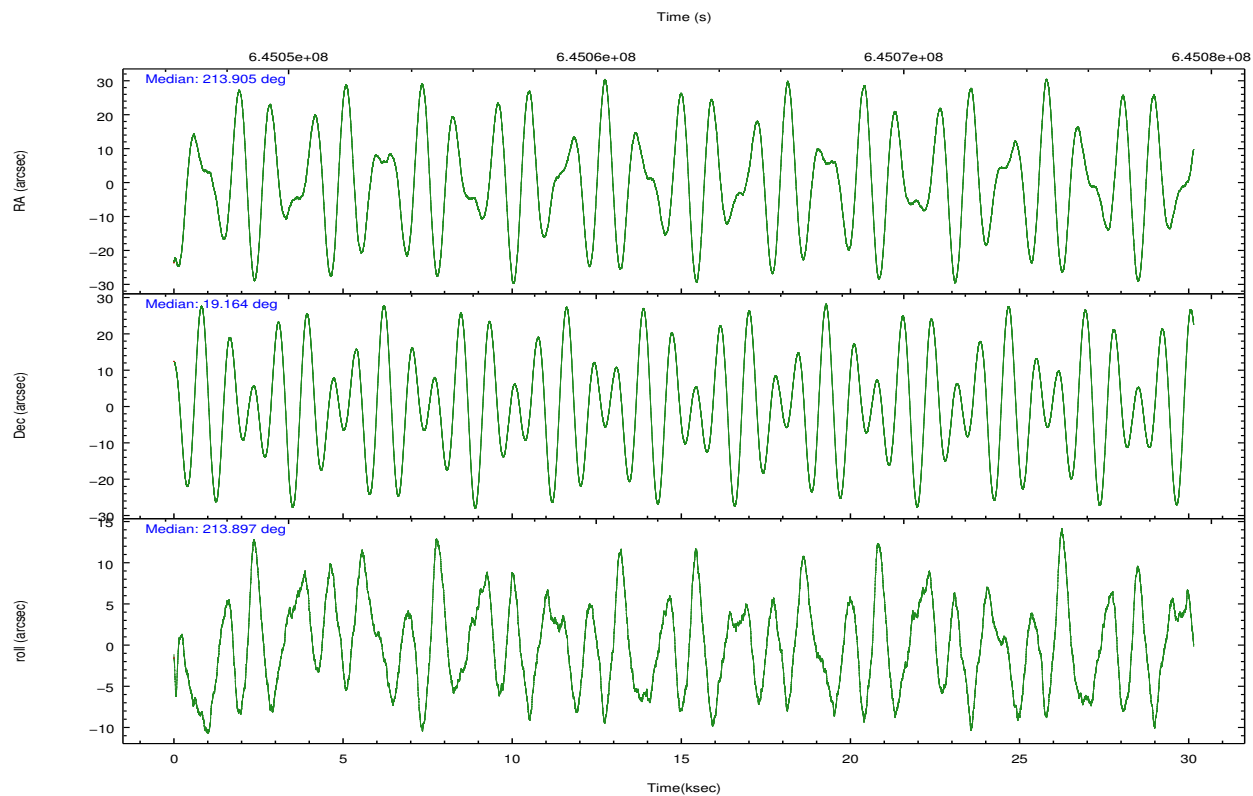
## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	HRC	HRC
Detector	HRC-I	HRC-I
Grating	NONE	NONE
Data mode	OBSERVING	OBSERVING
Observation mode	POINTING	POINTING
[deg] Pointing RA	213.917276	213.9051012322529
[deg] Pointing Dec	19.188547	19.16376145732879
[deg] Pointing Roll	213.997331	213.9058440665542
[mm] SIM focus pos	-1.040293	-1.038866356238299
[mm] SIM defocus	0	0.001426264420575141
[mm] SIM translation stage pos	126.985494	126.9829799899862
[mm] SIM translation stage offset	0	0.002508901615314585
[s] Observation start time (MET)	645047910.184000	645046887.32164
Observation start date	2018-06-10T19:57:21	2018-06-10T19:41:27
[s] Observation end time (MET)	645077910.184000	645079080.52354
Observation end date	2018-06-11T04:17:21	2018-06-11T04:38:00

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

## 2.3 Aspect



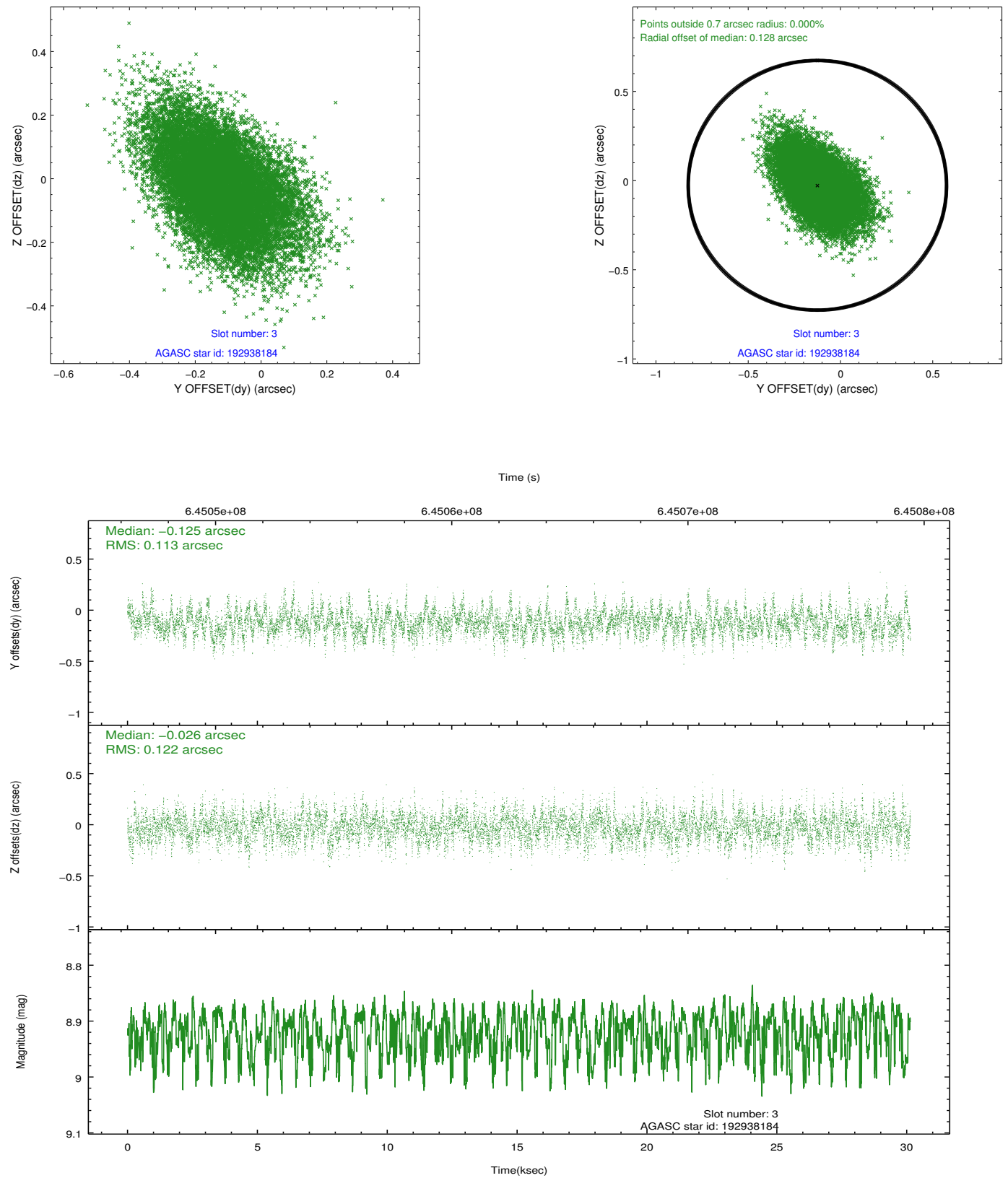


### Slot Statistics

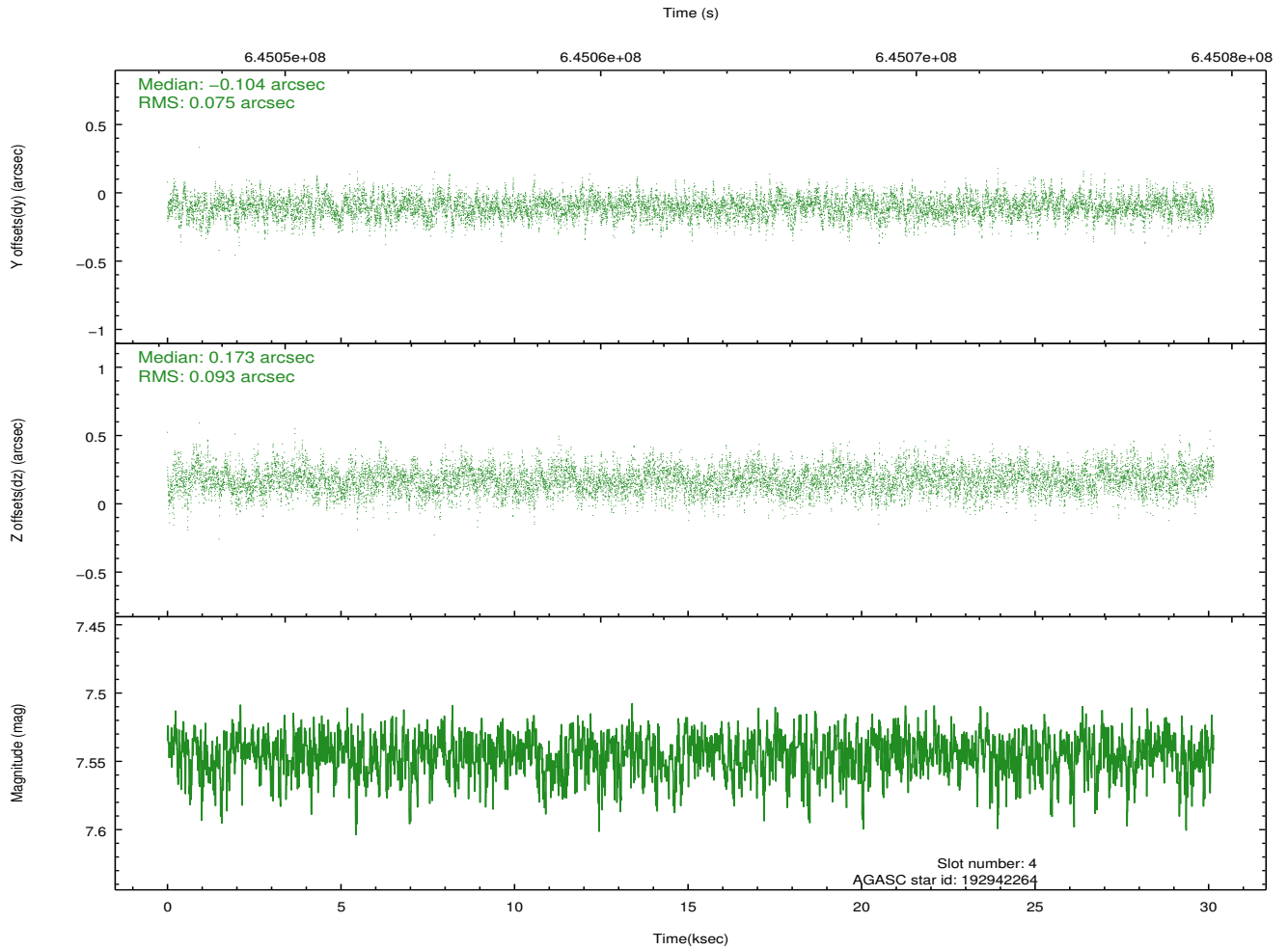
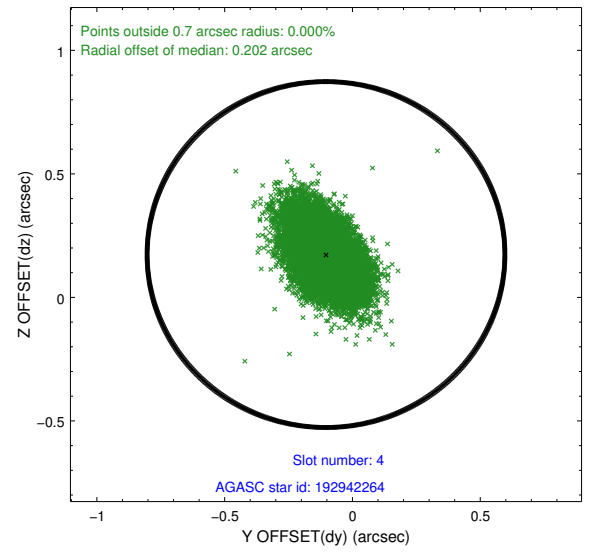
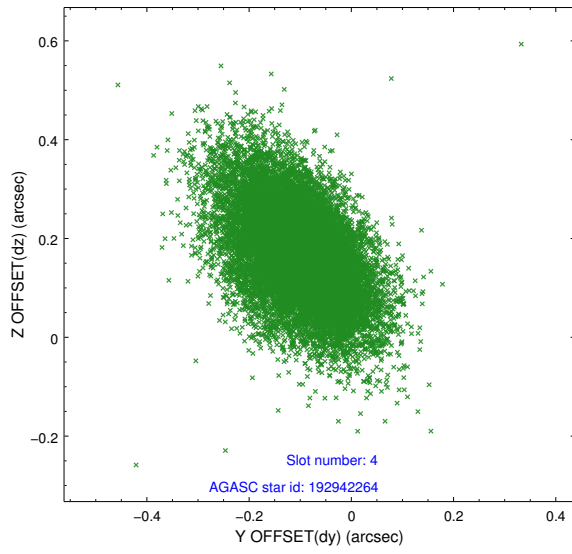
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		HRC-I-1	7.01	7354	-0.226	-0.005	0.015	0.040	0.000000	0.000000	-775.39	-1308.19
1	FID		HRC-I-2	7.05	7351	0.347	-0.086	0.017	0.035	0.000000	0.000000	837.71	-1309.91
2	FID		HRC-I-3	7.09	7353	-0.003	-0.004	0.016	0.030	0.000000	0.000000	-1203.70	996.17
3	GUIDE	used	192938184	8.92	14689	-0.125	-0.026	0.174	0.296	214.640634	18.951359	-1567.62	2081.27
4	GUIDE	used	192942264	7.54	14700	-0.104	0.173	0.122	0.214	213.489145	19.580360	414.67	-1981.79
5	GUIDE	used	192811856	9.02	14693	0.345	-0.288	0.187	0.330	213.036390	19.360865	2130.44	-2193.29
6	GUIDE	used	192941080	7.38	14705	0.069	0.400	0.133	0.226	213.765305	19.900558	-1005.78	-2411.89
7	GUIDE	used	192943728	9.05	14693	-0.189	-0.256	0.161	0.273	213.833075	18.582958	1457.45	1647.04

## 2.4 Star Slots

### 2.4.1 Slot 3

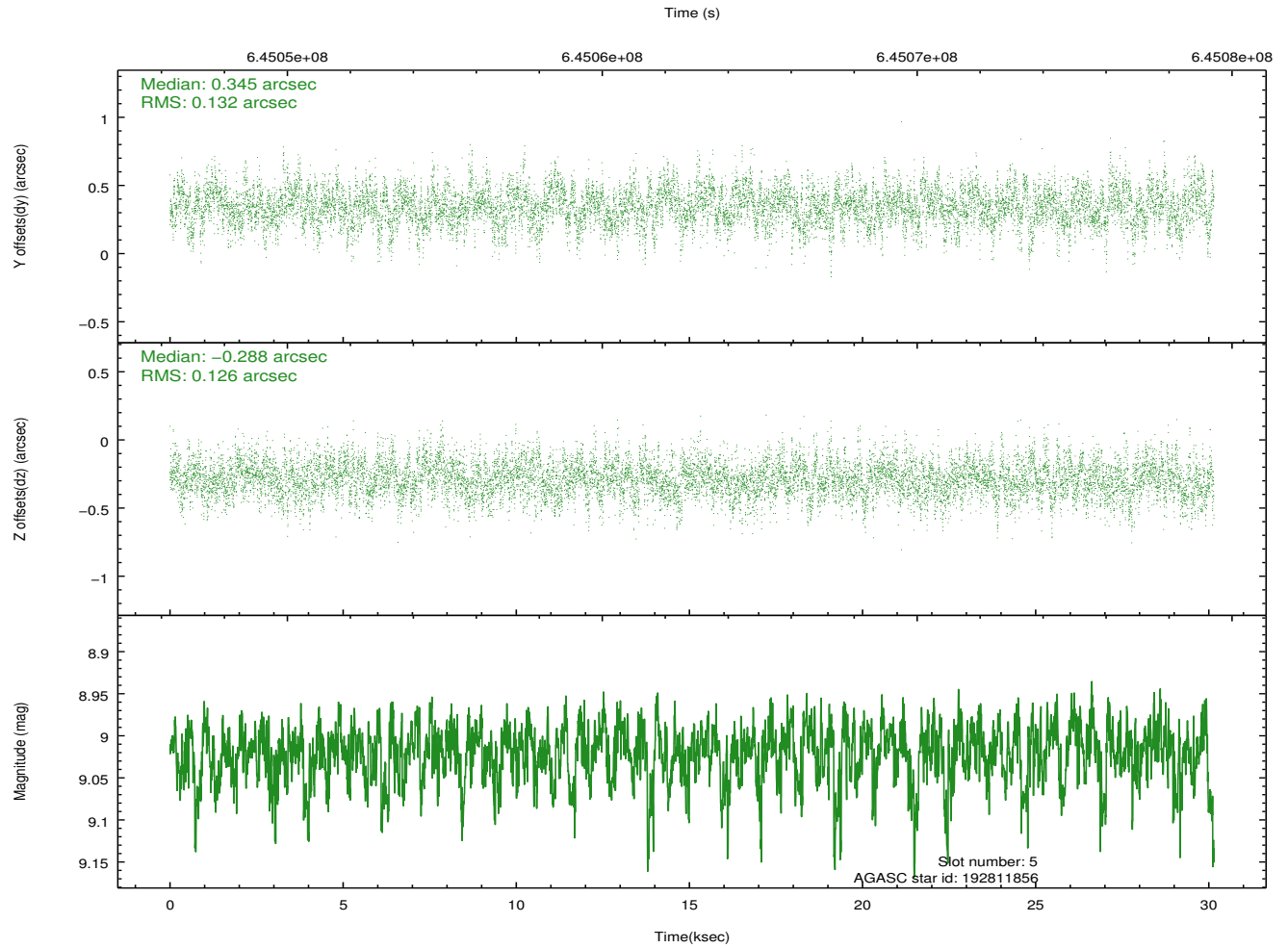
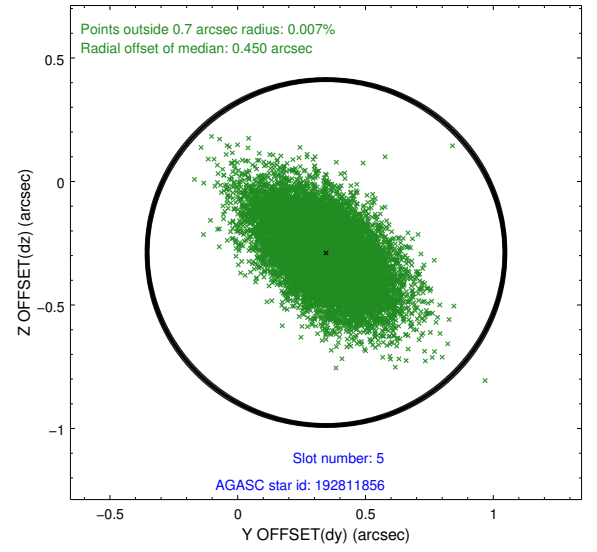
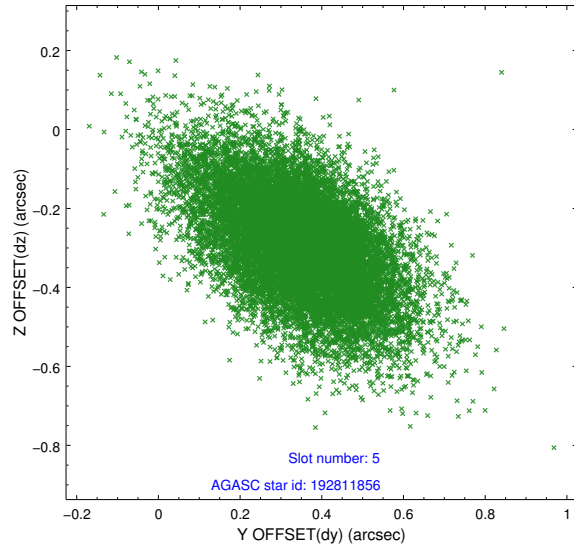


## 2.4.2 Slot 4

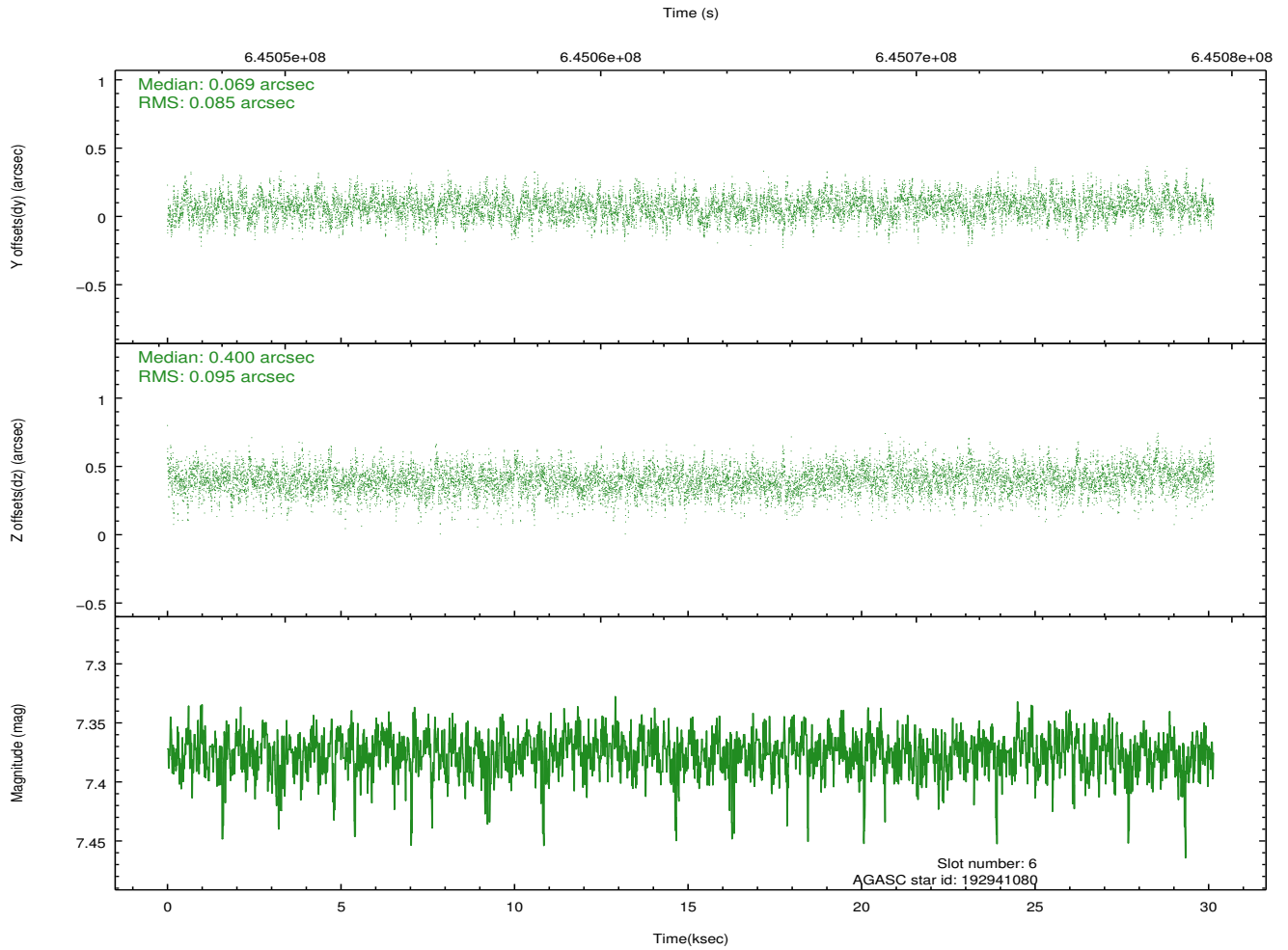
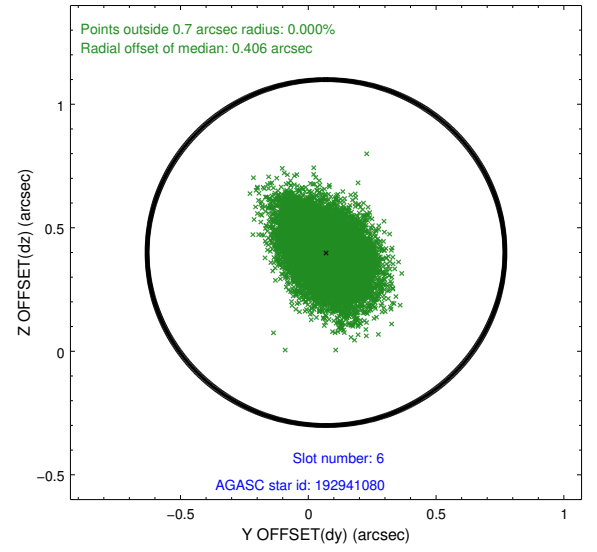
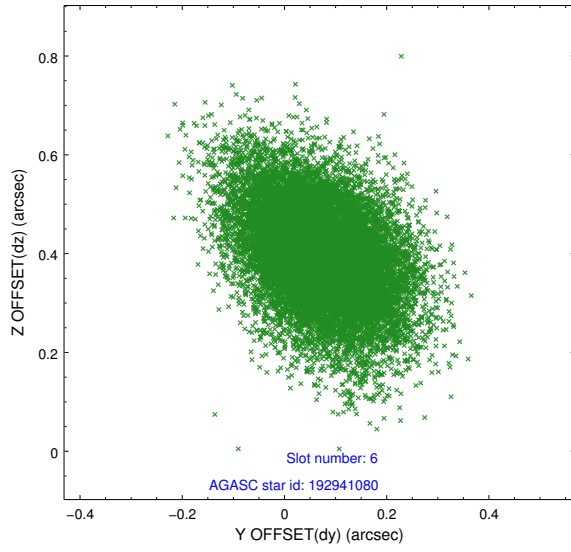




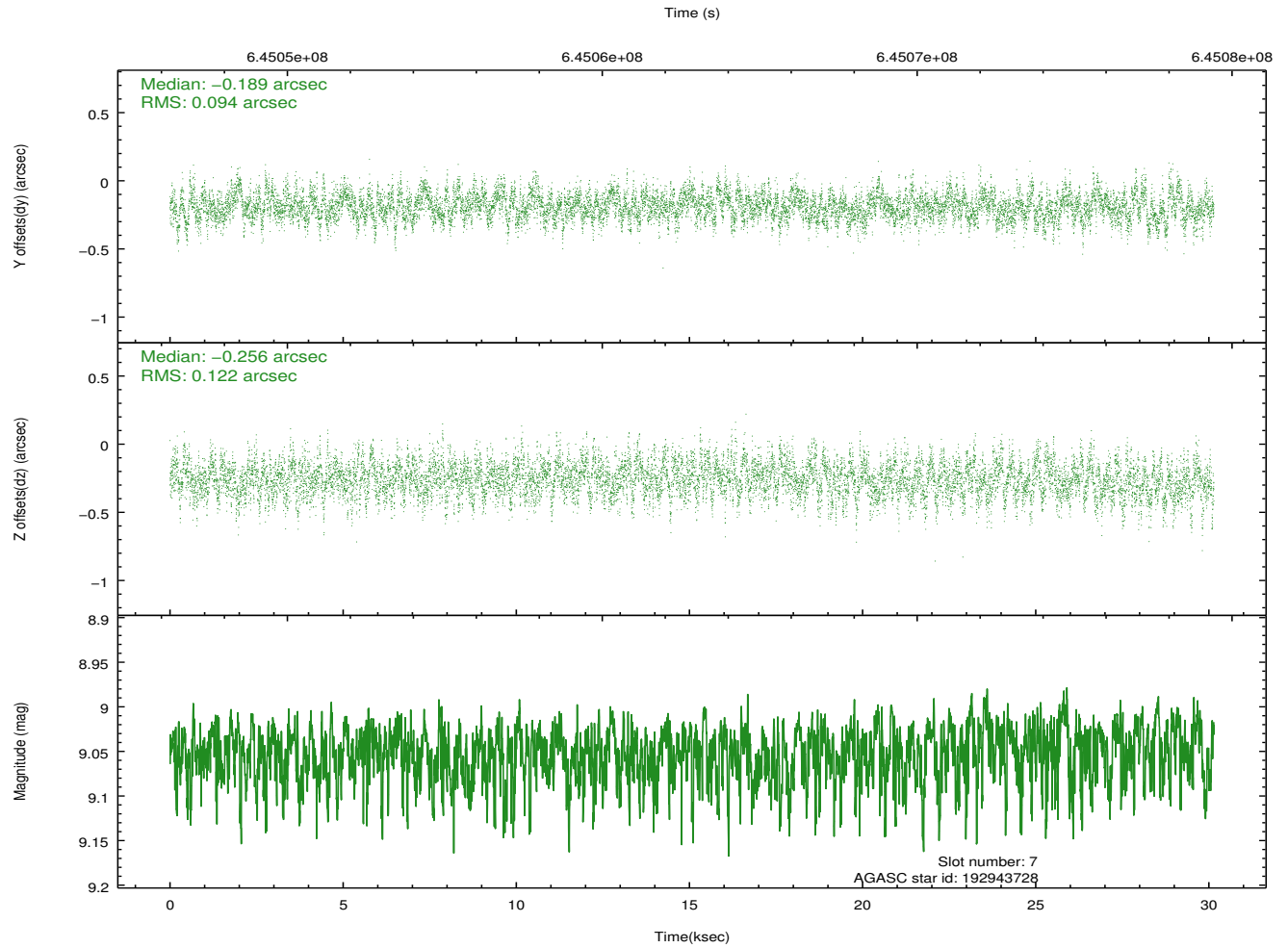
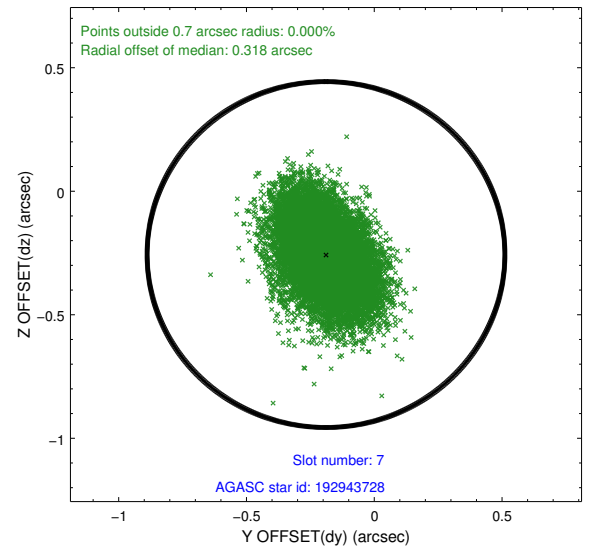
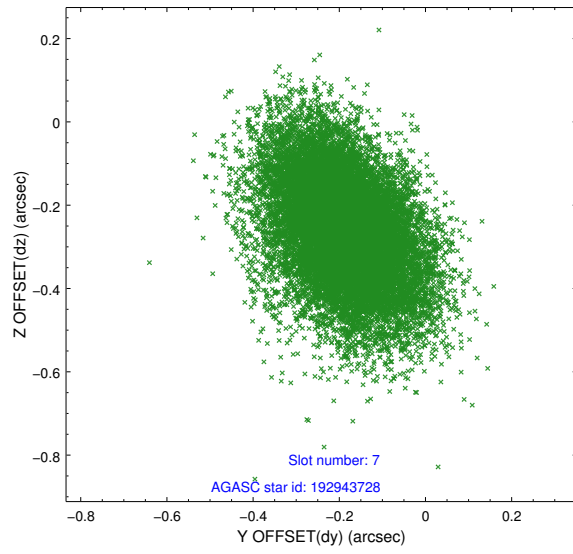
### 2.4.3 Slot 5



## 2.4.4 Slot 6

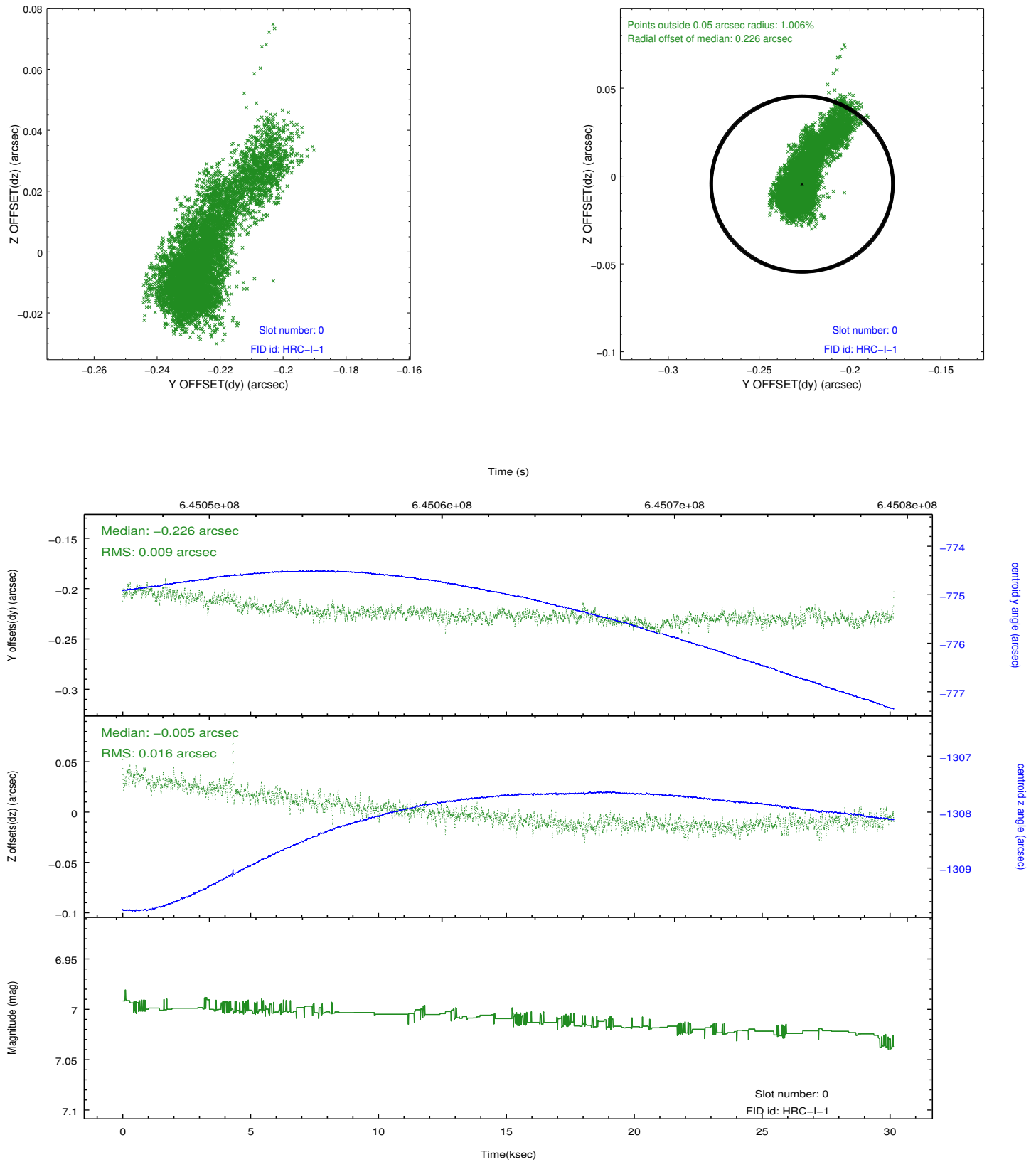


## 2.4.5 Slot 7

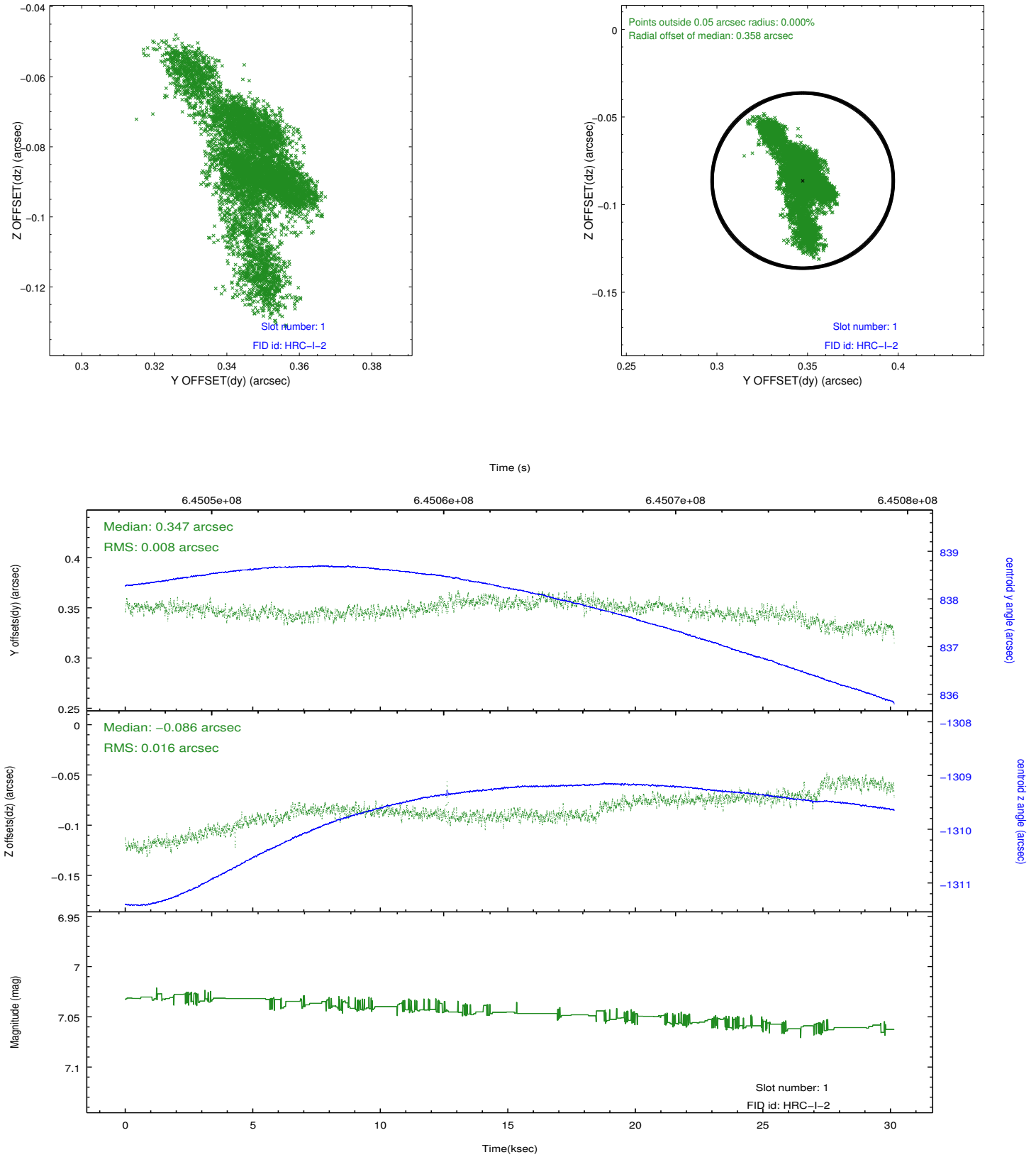


## 2.5 FID Slots

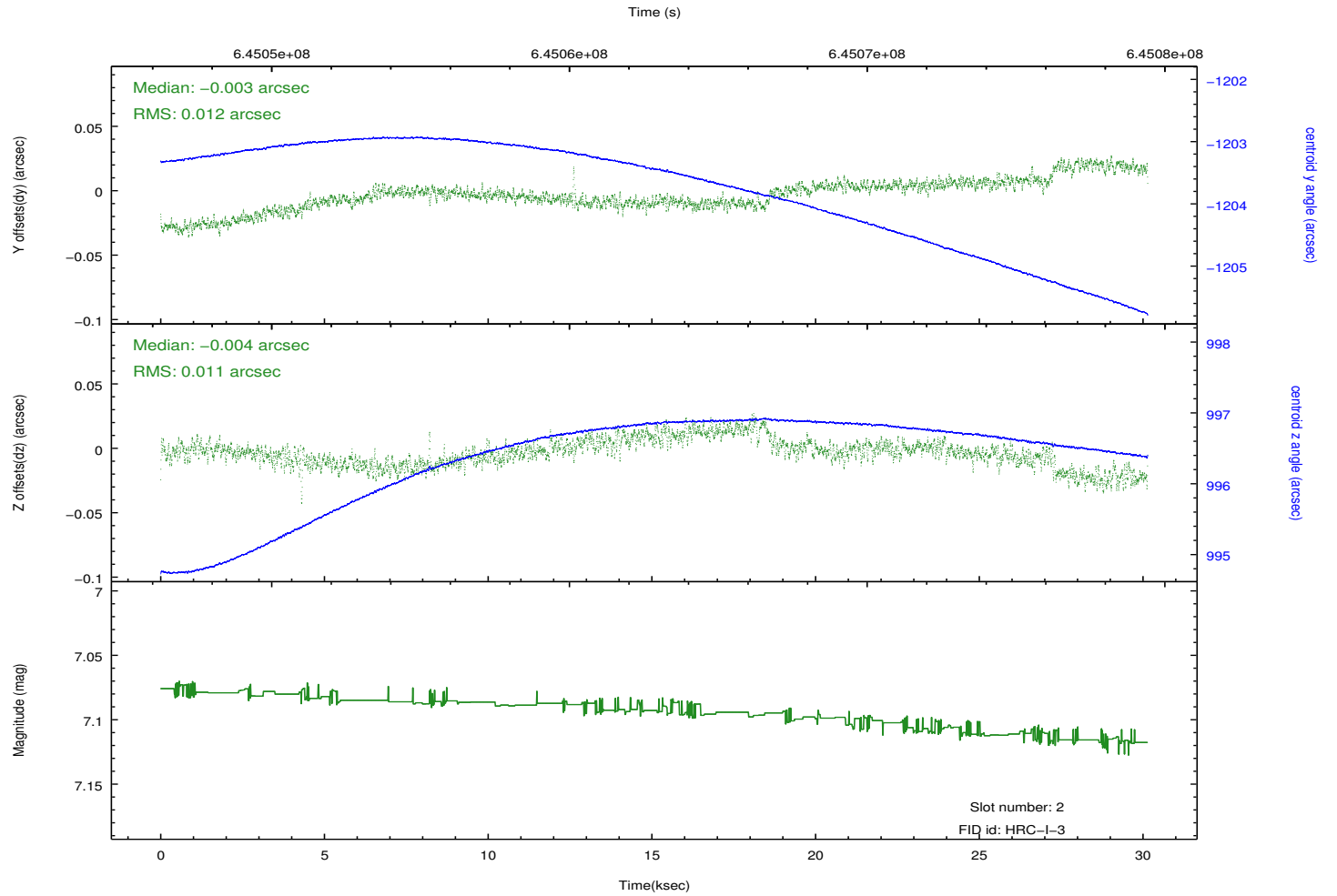
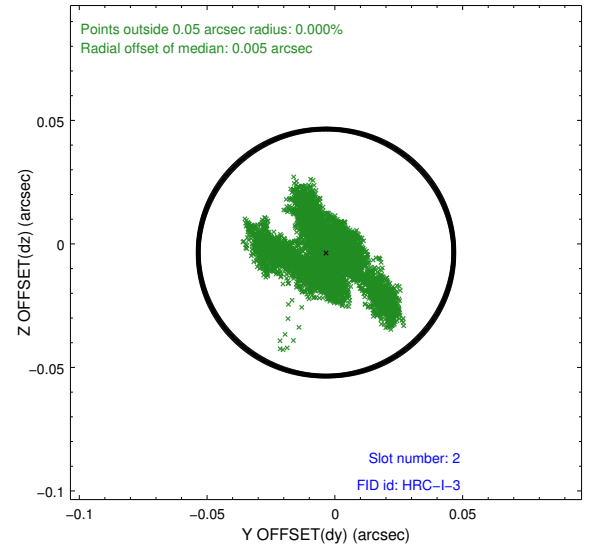
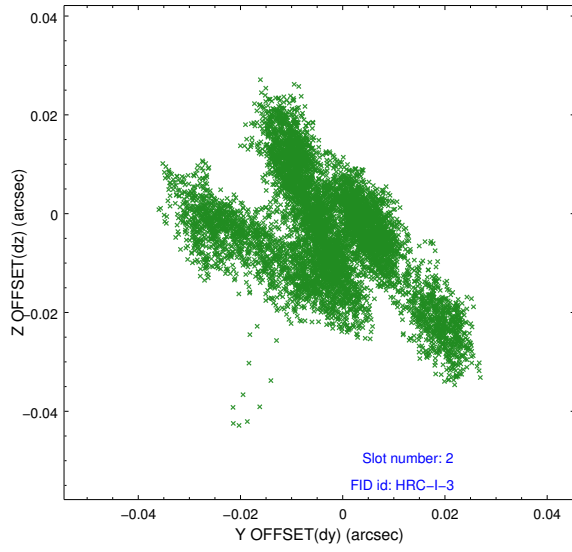
### 2.5.1 Slot 0



## 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)	2018.06.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	30.146533034801

### A.2 Comments