

# V&V Reference Report

## L2 ASCDS Version : 10.0.1

Observation 14551 - L2 Version 2  
Chandra X-Ray Center

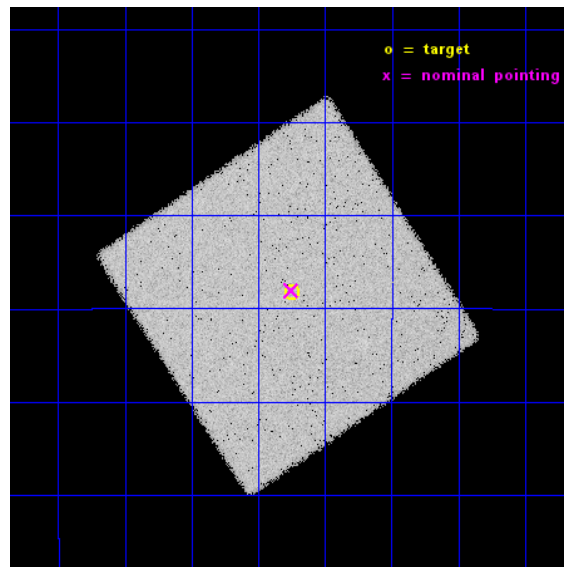
L2 Processing Date : Dec 6 2014

## 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

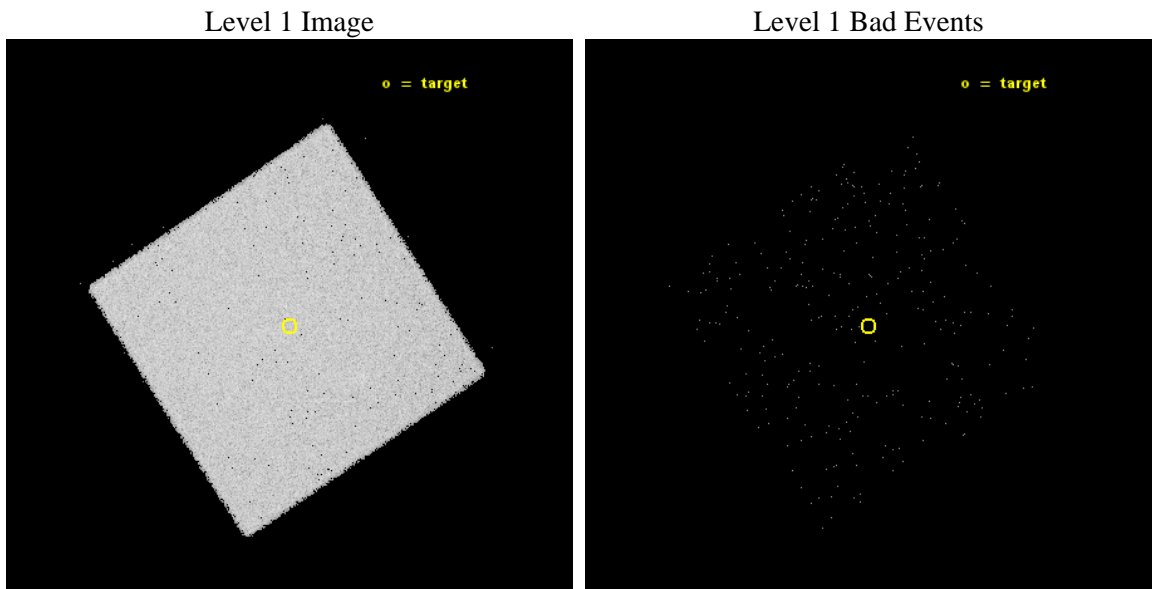
seq_num	200852	Sequence number
obs_id	14551	Observation id
title	Search for X-ray emission from a sample of luminous O-type subdwarfs	&#160
observer	Mr. Nicola La Palombara	Principal investigator
object	BD-03 2179	Source name
ra_targ	120.562083	Observer's specified target RA [deg]
dec_targ	-3.971222	Observer's specified target Dec [deg]
ra_nom	120.56291448621	Nominal RA [deg]
dec_nom	-3.9672742713021	Nominal Dec [deg]
roll_nom	101.61918612791	Nominal Roll [deg]
revision	2	Processing version of data
ontime	4177.1314778924	[s]
livetime	4146.8304772165	Ontime multiplied by DTCOR
l2events	233035	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	4000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	4177.1314778924	[s]
caldbver	4.6.4	&#160	l1events	372460	Number of level 1 events
date	2014-12-06T10:08:23	Date and time of file creation			
revision	2	Processing version of data			

### 2.1.3 Events

#### Level 1 Events

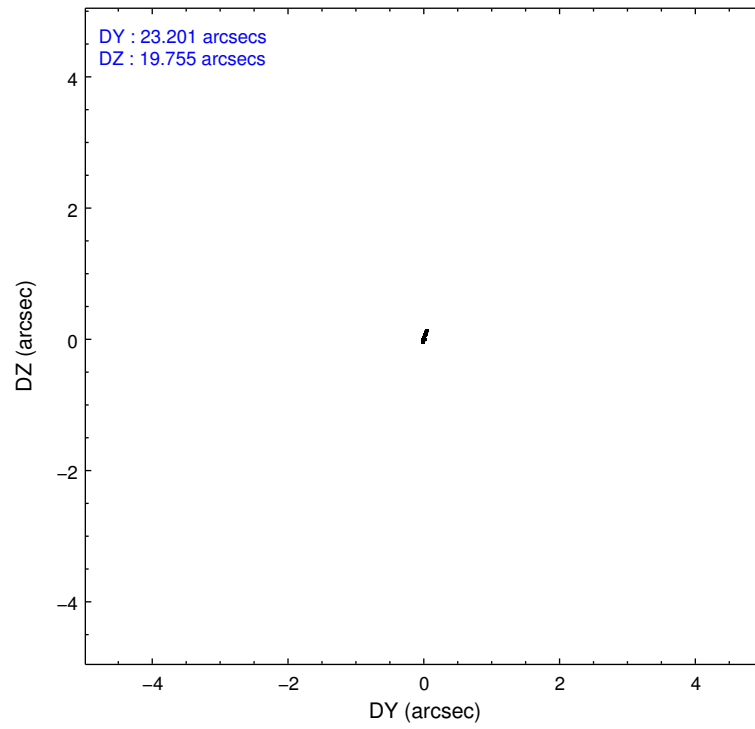
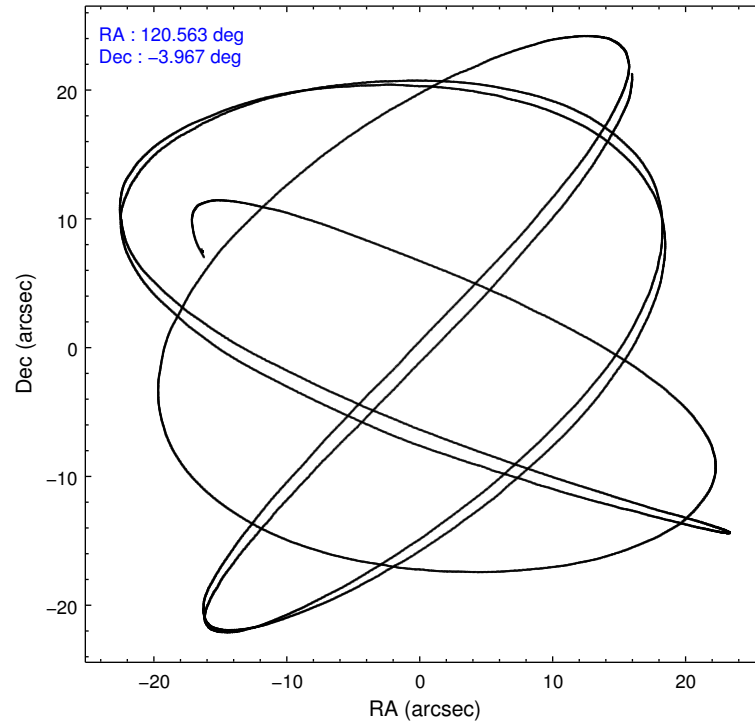
	<b>segment 0</b>
level 1 events	372460
rejected events	57016
rejected %	15%

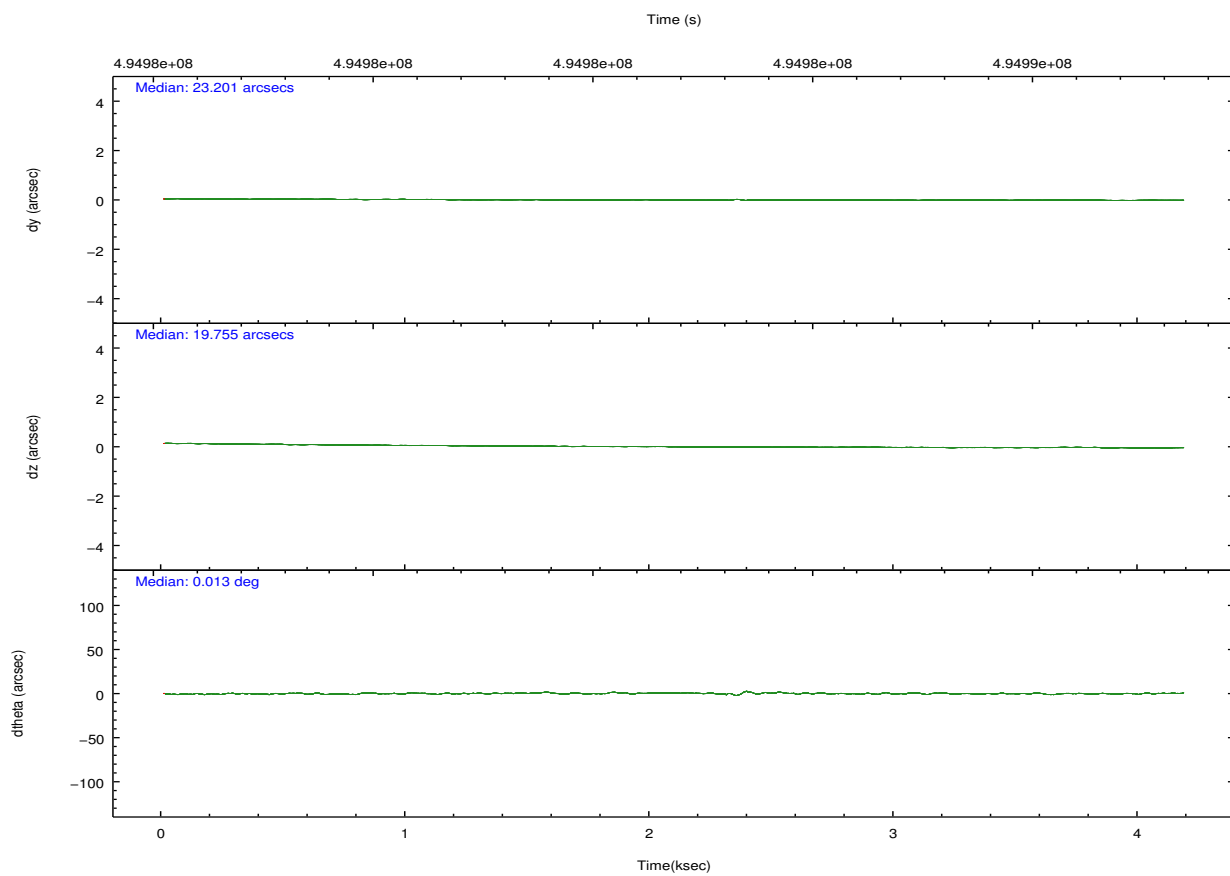
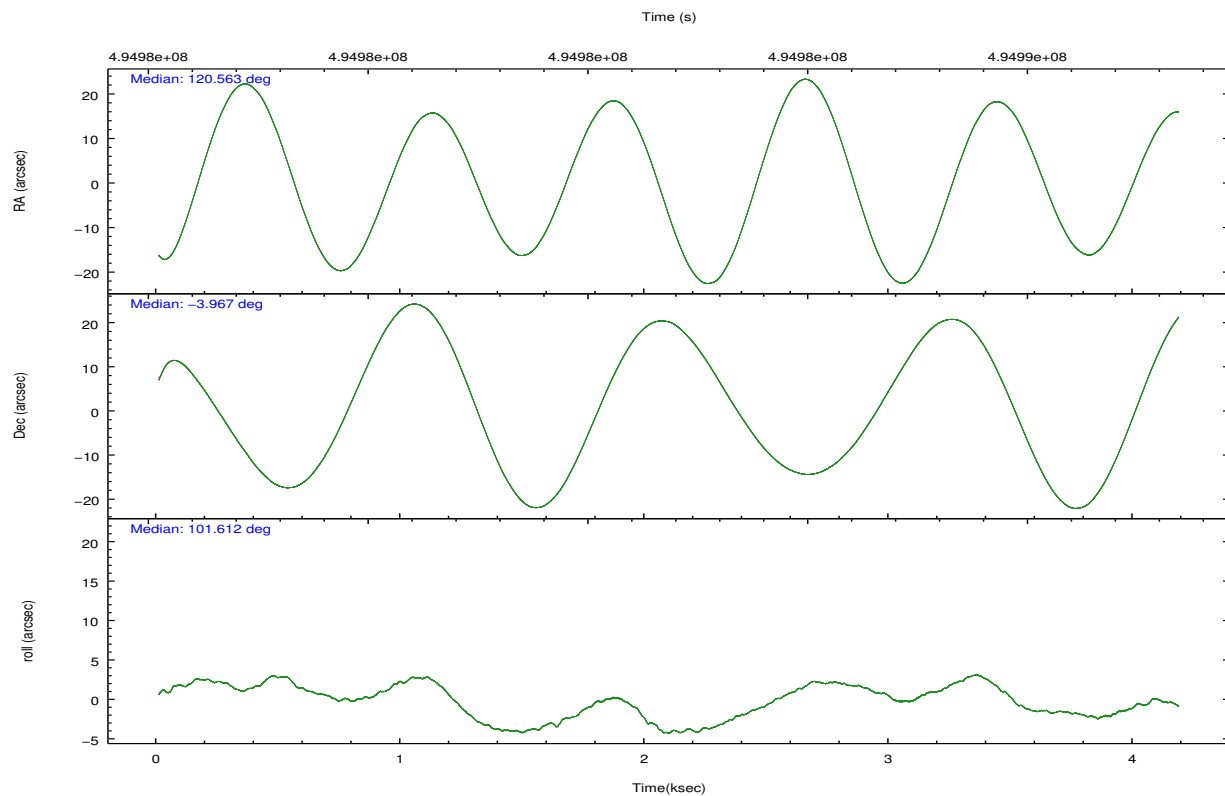


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	HRC	HRC	Obspar format version number	7	7
Detector	HRC-I	HRC-I	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	OBSERVING	OBSERVING			
Observation mode	POINTING	POINTING			
[deg] Pointing RA	120.581396	120.5629144862134			
[deg] Pointing Dec	-3.986972	-3.967274271302095			
[deg] Pointing Roll	101.715964	101.6191861279117			
[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)	494982464.184000	494981604.43717			
Observation start date	2013-09-07T23:06:37	2013-09-07T22:53:24			
[s] Observation end time (MET)	494986464.184000	494987520.73749			
Observation end date	2013-09-08T00:13:17	2013-09-08T00:32:00			

## 2.3 Aspect



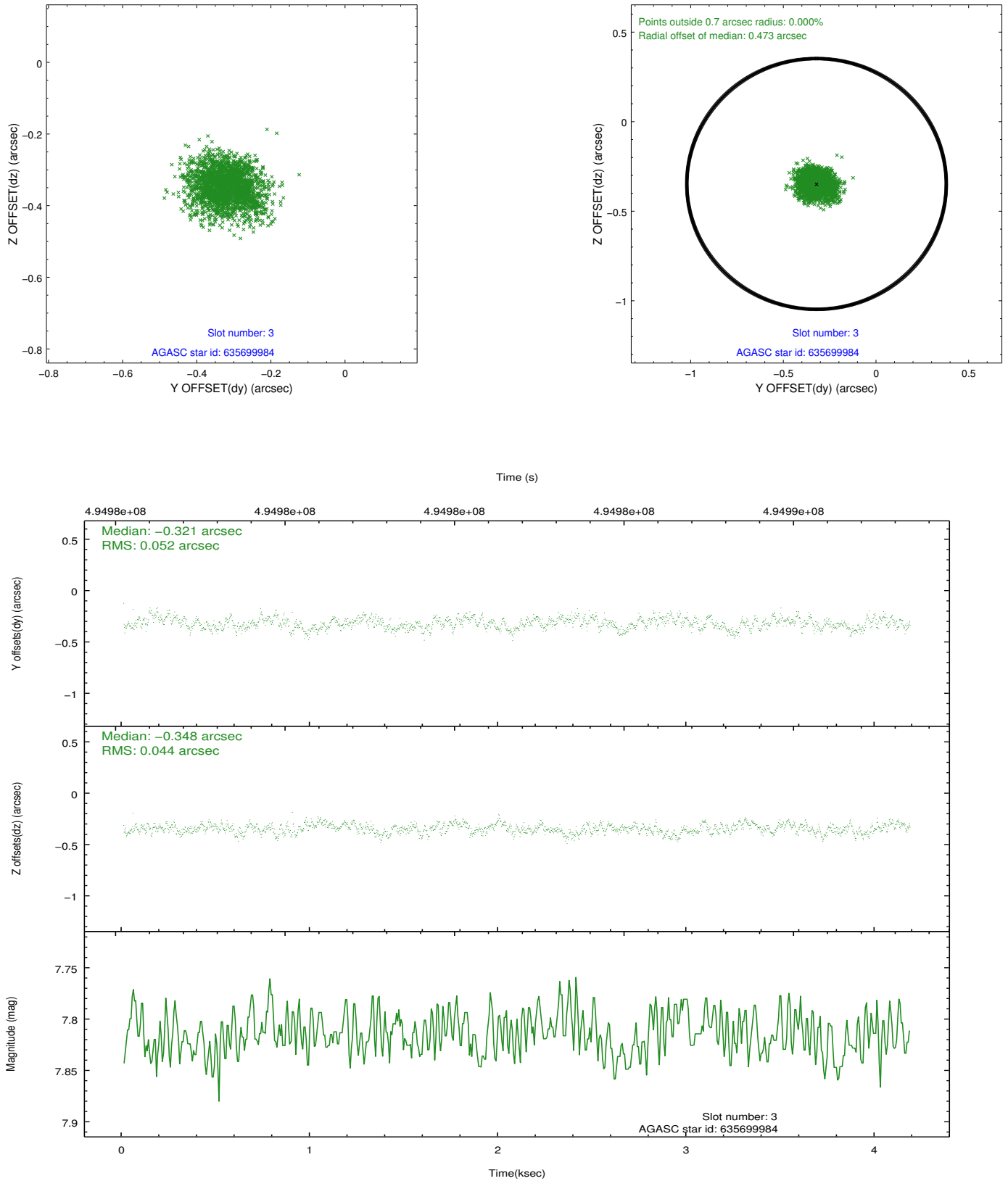


### Slot Statistics

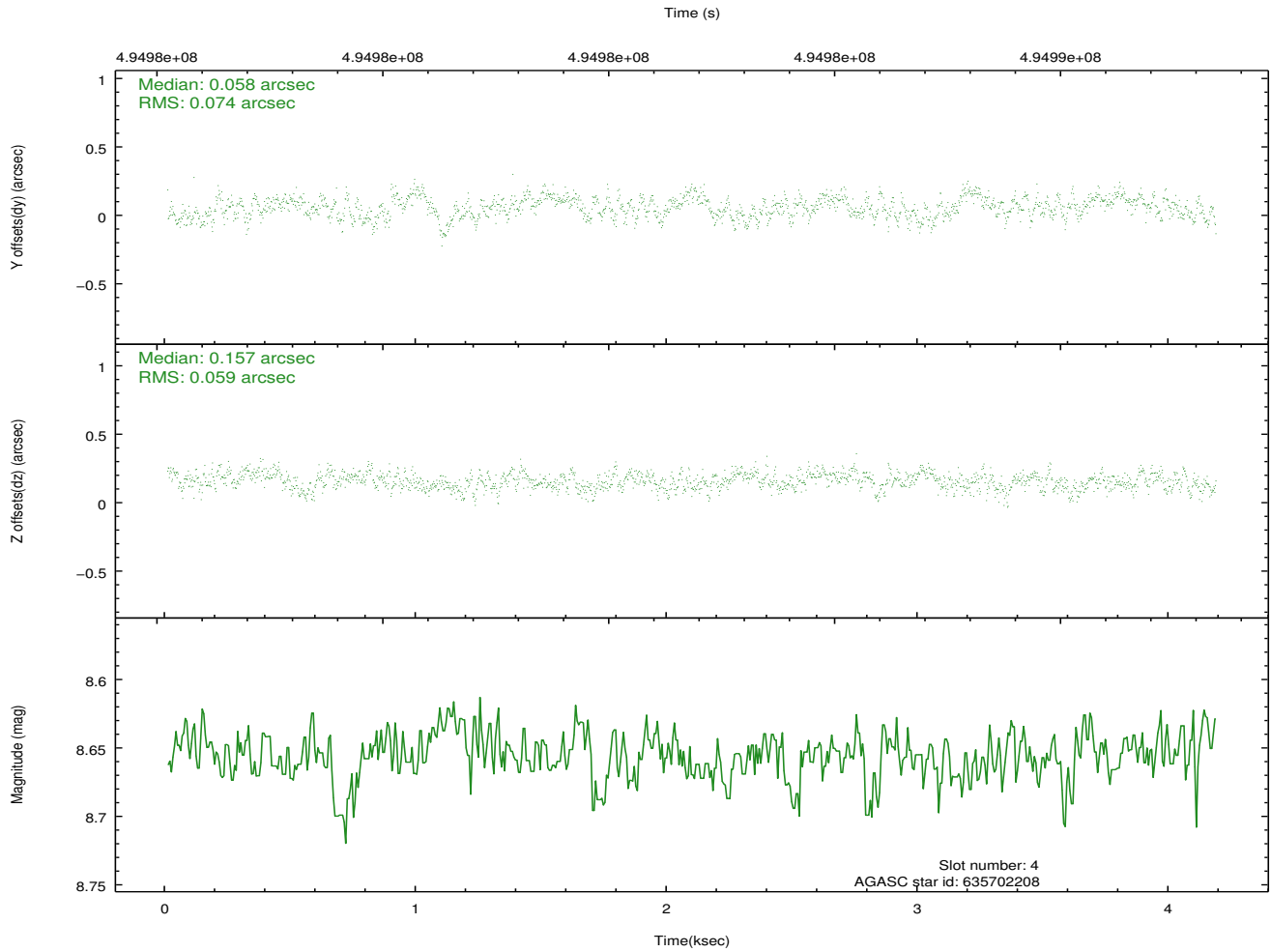
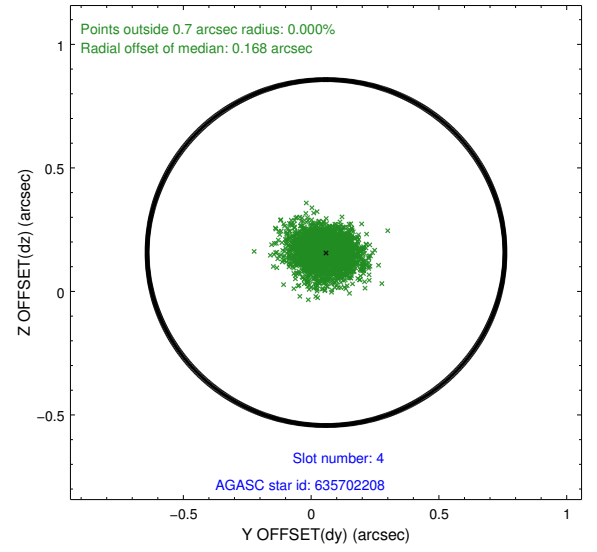
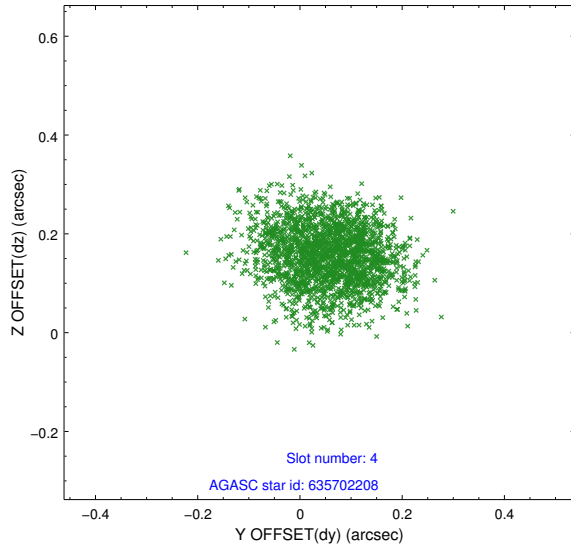
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		HRC-I-1	6.96	1020	-0.177	-0.126	0.006	0.010	0.000000	0.000000	-779.52	-1308.06
1	FID		HRC-I-2	6.99	1020	0.176	-0.010	0.007	0.012	0.000000	0.000000	832.71	-1310.92
2	FID		HRC-I-4	6.96	1020	0.117	0.045	0.006	0.010	0.000000	0.000000	1264.57	992.84
3	GUIDE	used	635699984	7.81	2038	-0.321	-0.348	0.073	0.117	120.306063	-3.519462	1849.37	627.34
4	GUIDE	used	635702208	8.66	2038	0.058	0.157	0.101	0.161	120.870665	-3.468975	1616.97	-1395.48
5	GUIDE	used	635706080	8.51	2036	-0.098	0.340	0.096	0.161	121.039001	-3.331012	1980.16	-2089.60
6	GUIDE	used	636236784	7.47	2038	0.141	-0.211	0.068	0.117	120.193746	-4.520451	-1596.20	1751.25
7	GUIDE	used	636243056	8.77	2037	0.221	0.061	0.087	0.141	120.311972	-4.635279	-2088.50	1422.05

## 2.4 Star Slots

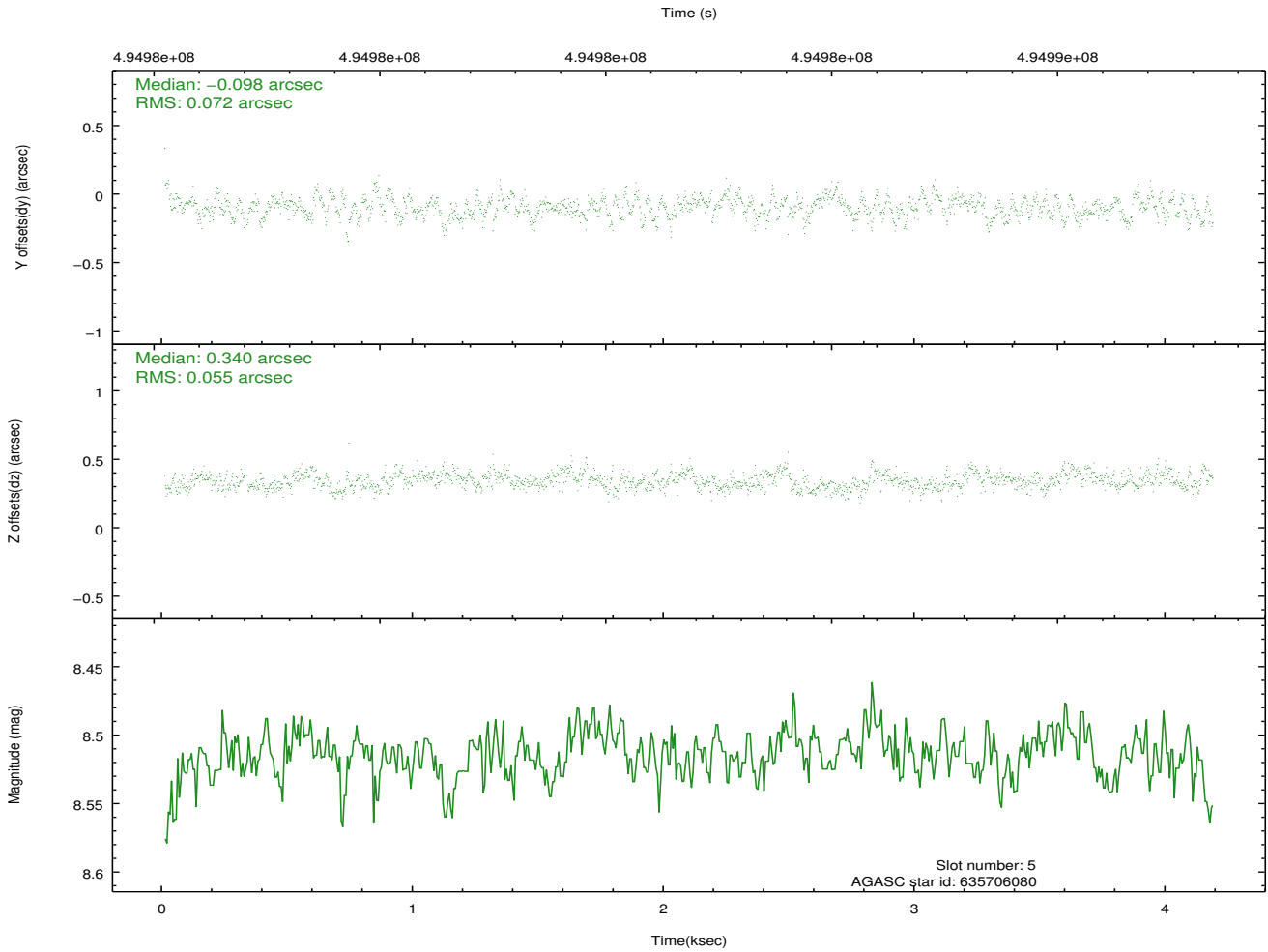
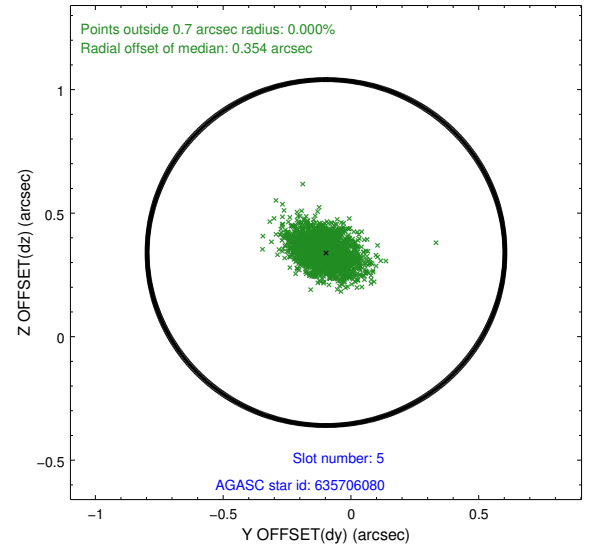
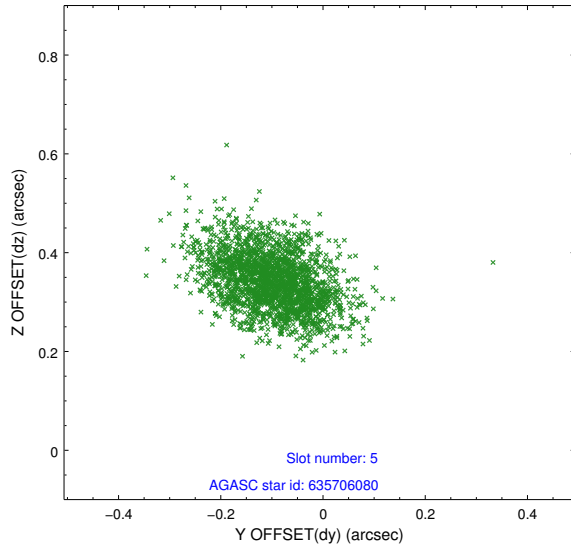
### 2.4.1 Slot 3



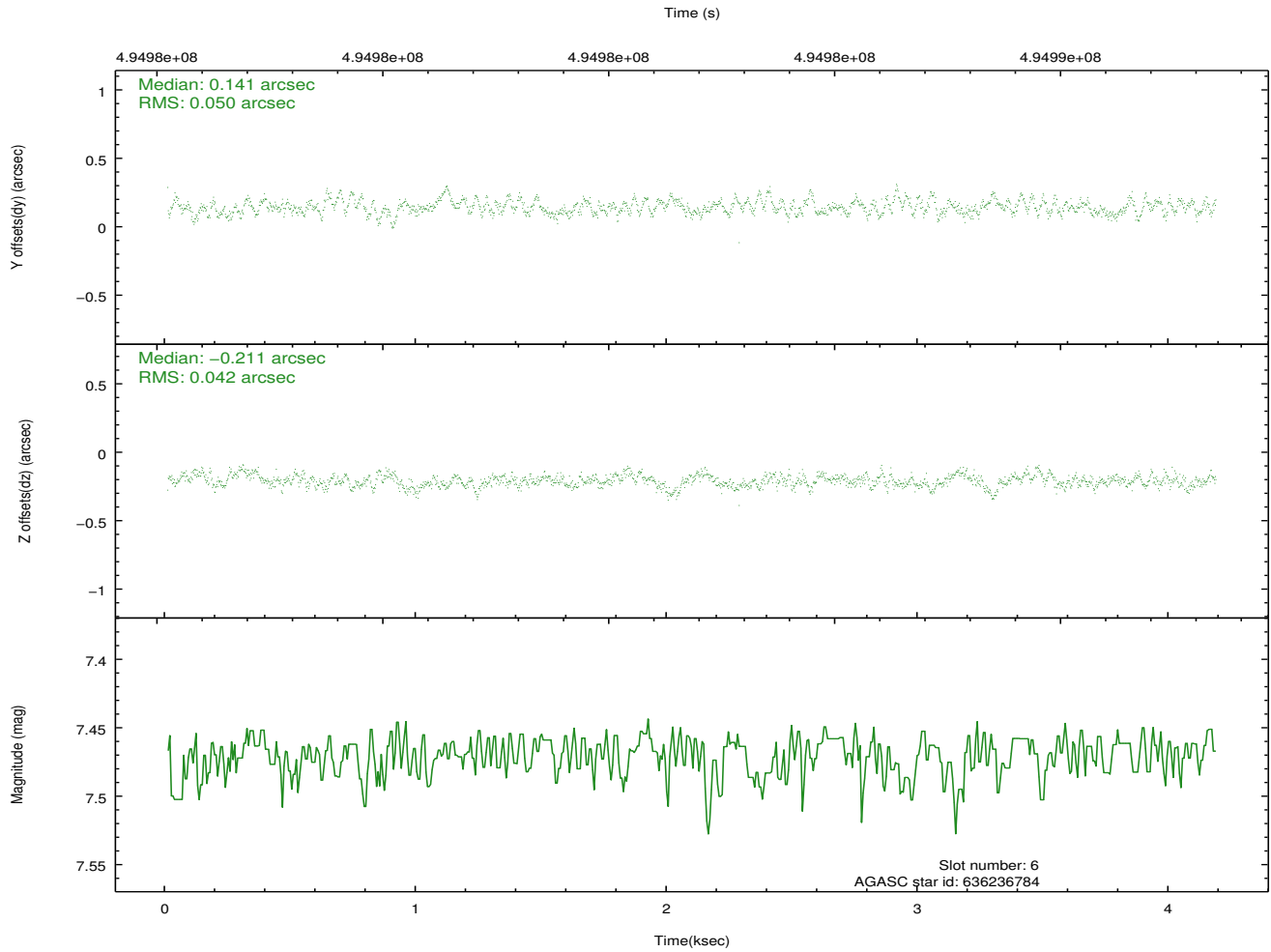
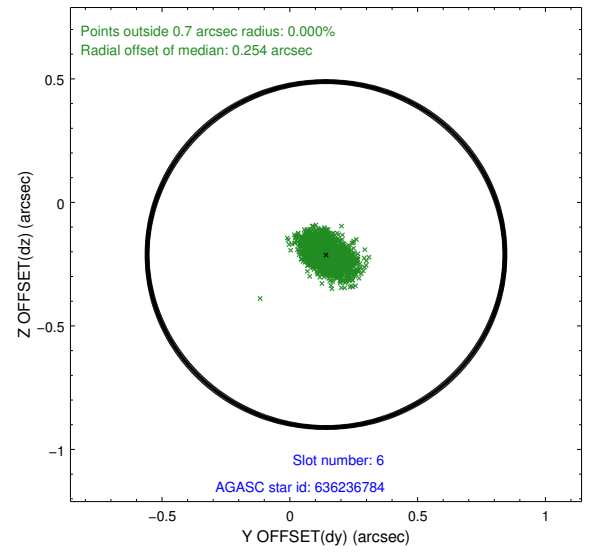
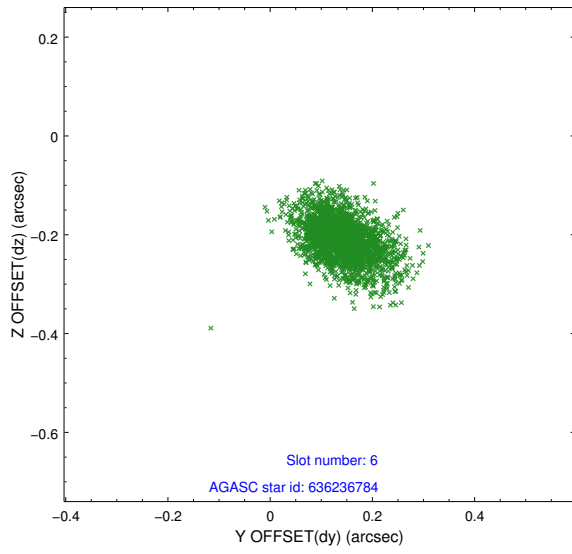
## 2.4.2 Slot 4



### 2.4.3 Slot 5

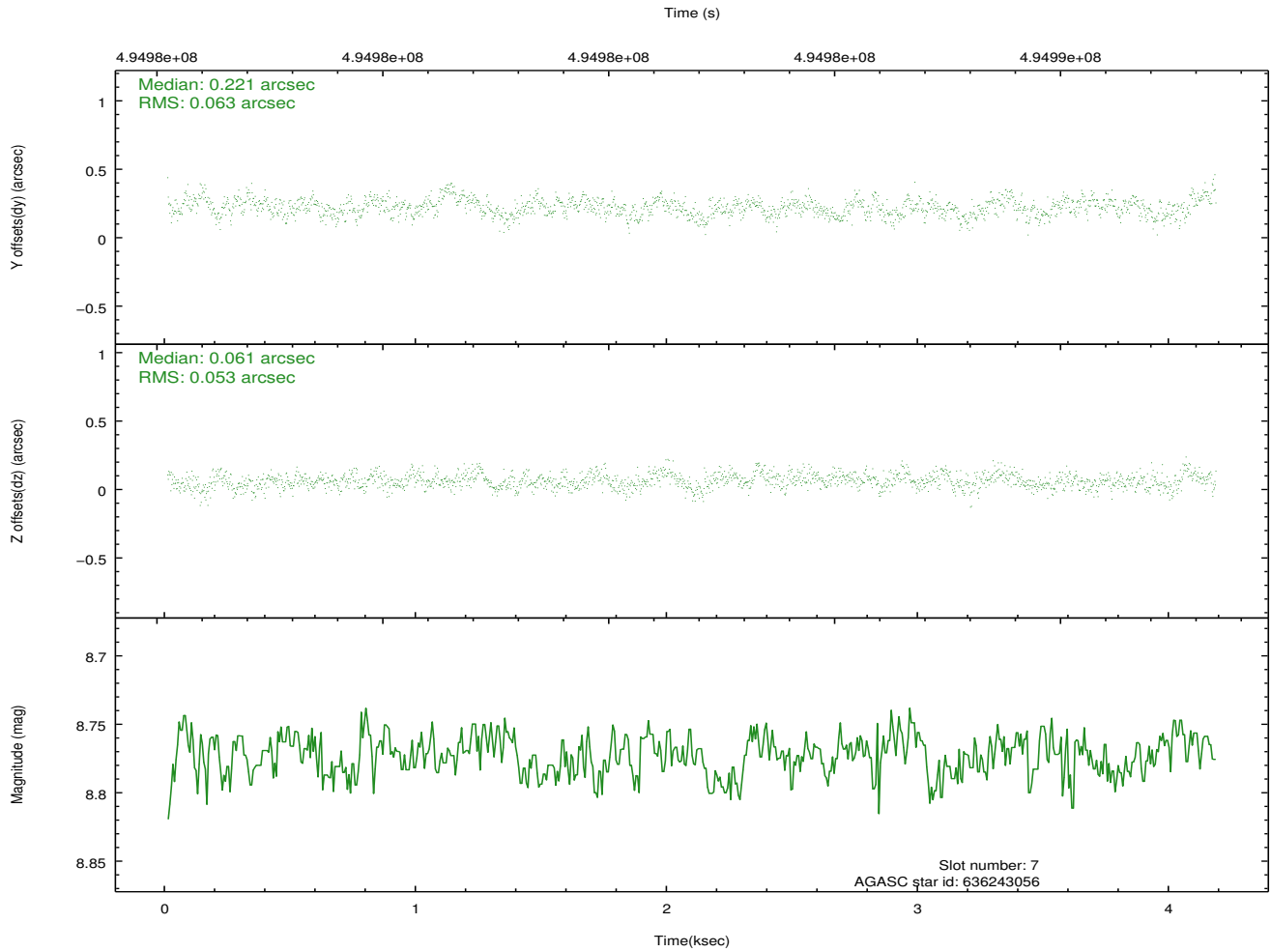
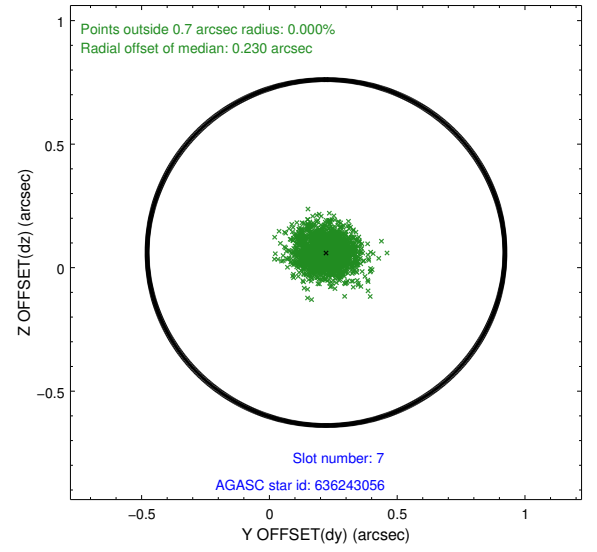
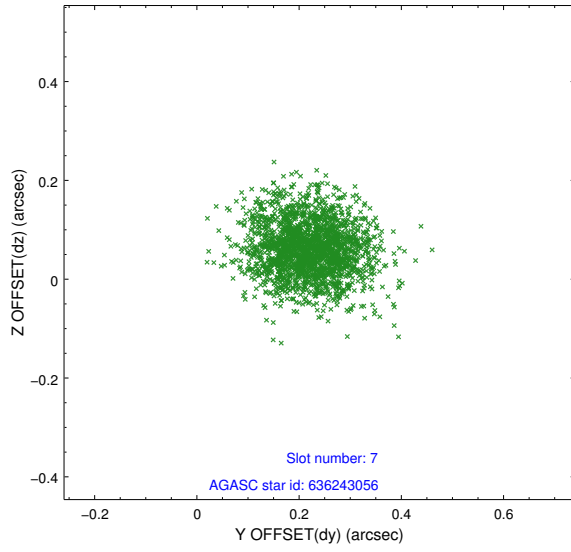


## 2.4.4 Slot 6



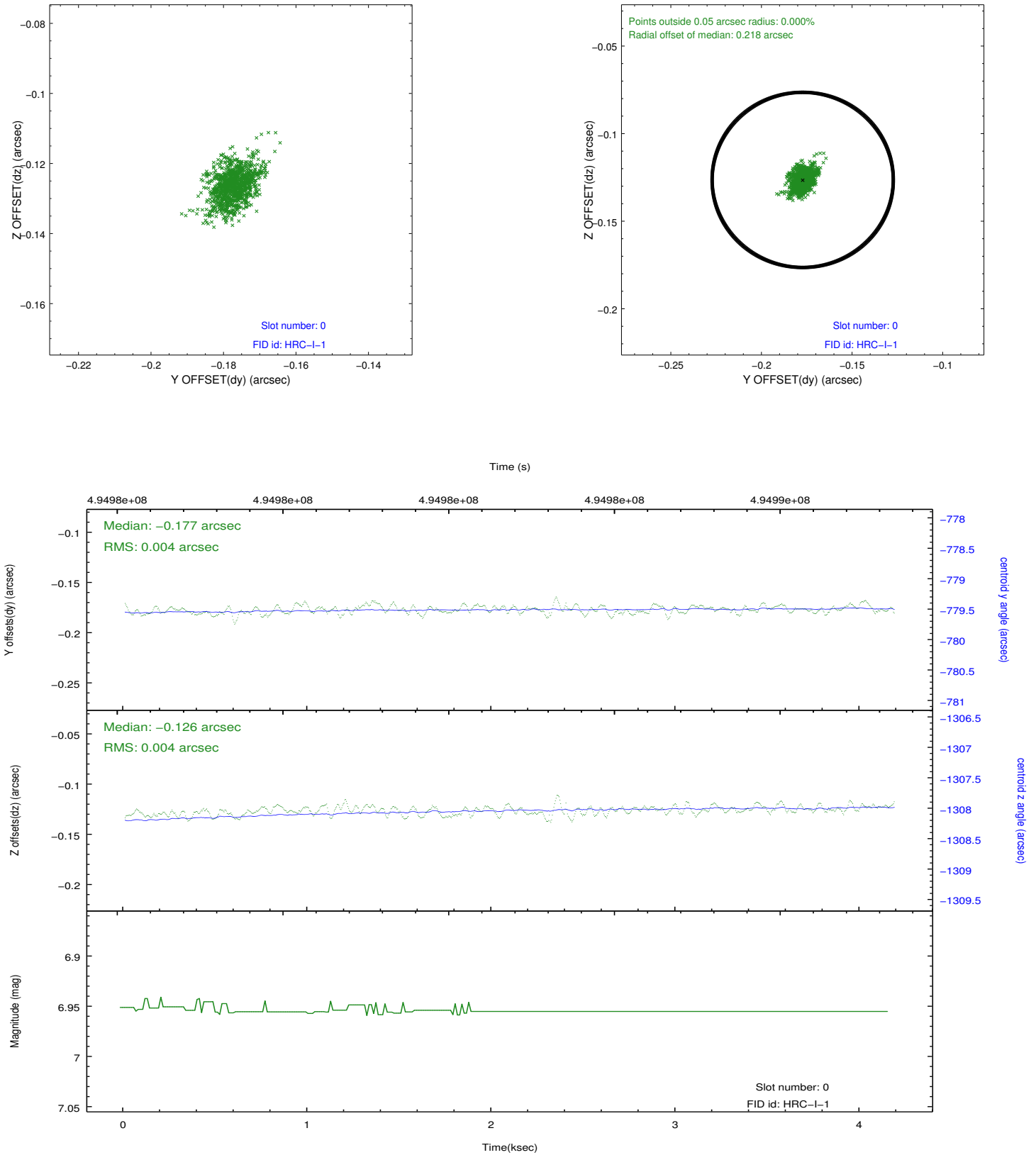


## 2.4.5 Slot 7

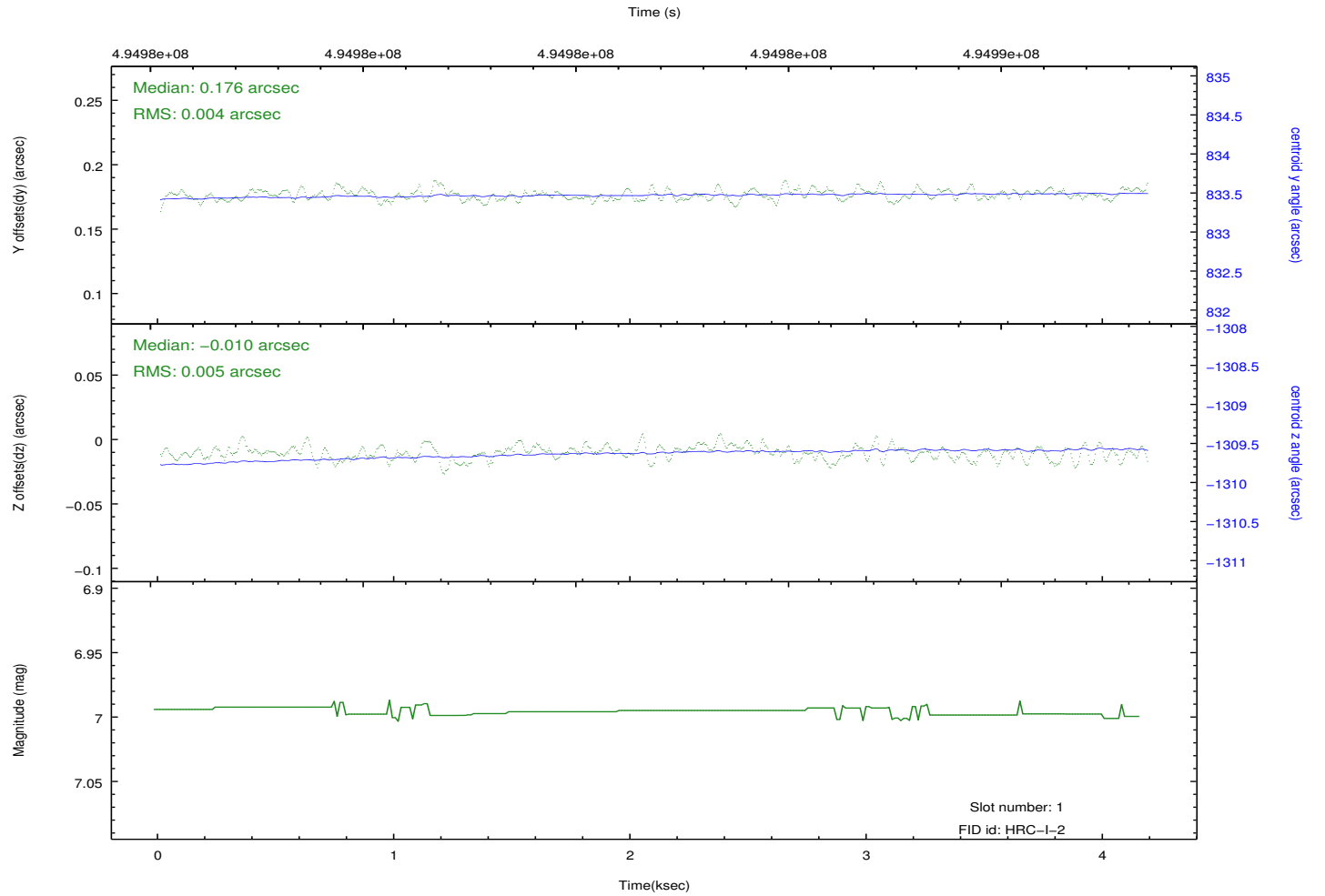
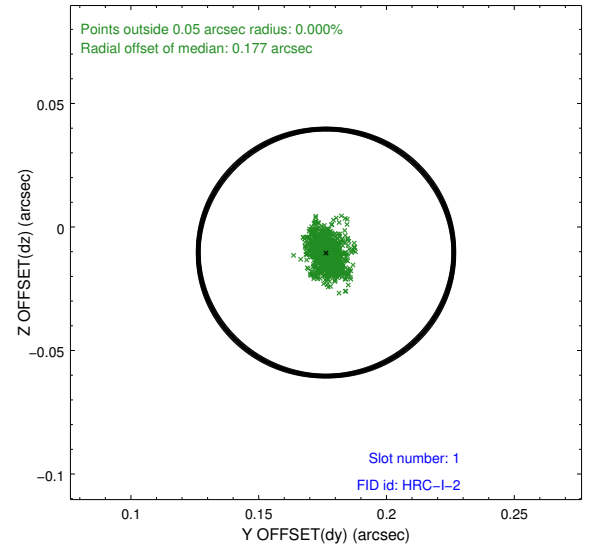
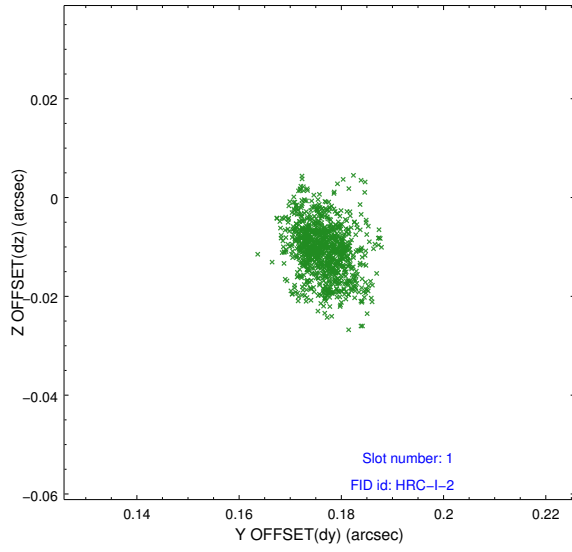


## 2.5 FID Slots

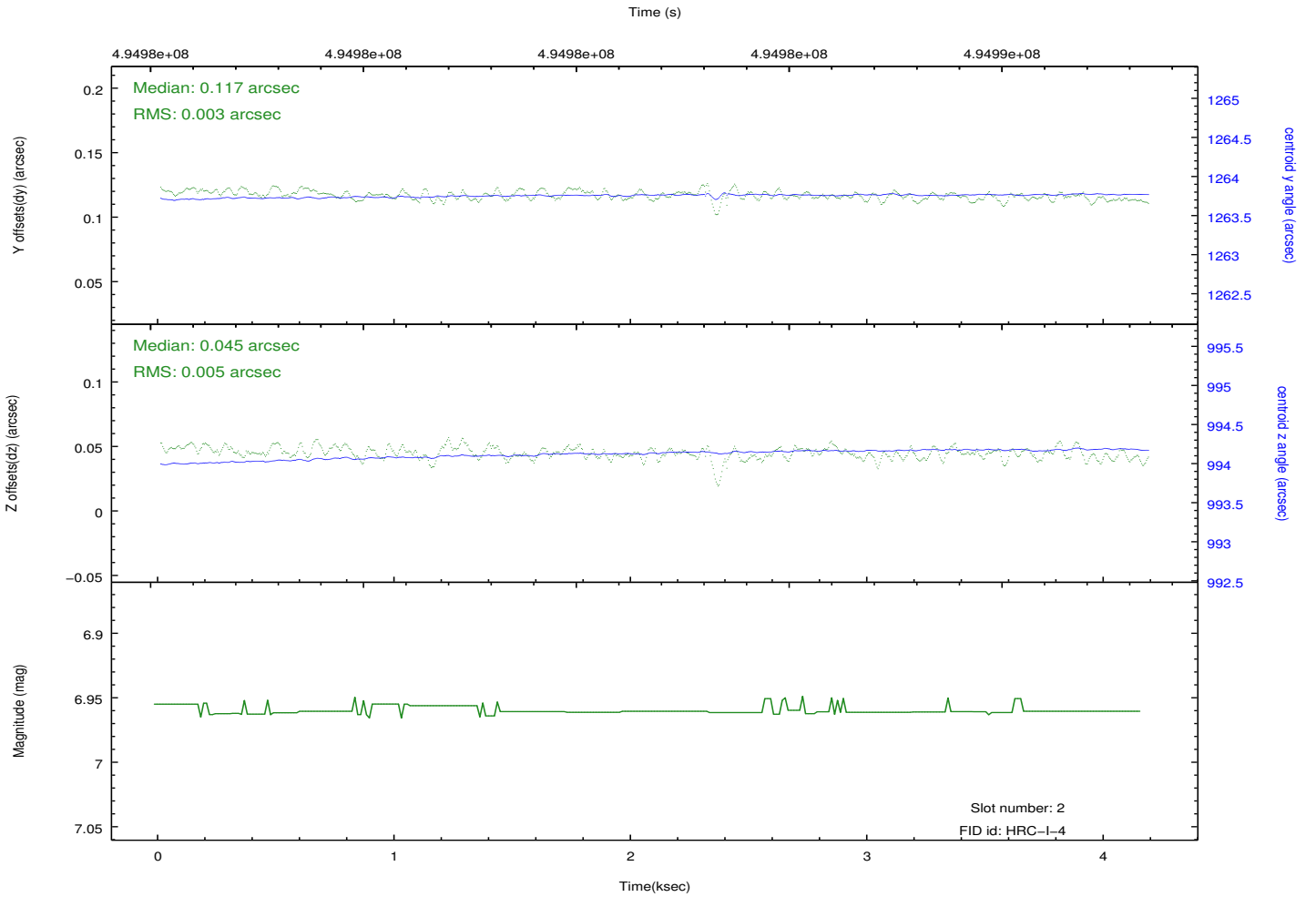
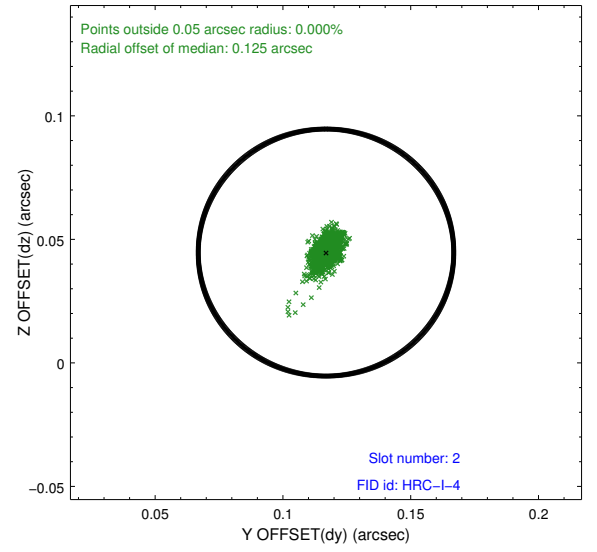
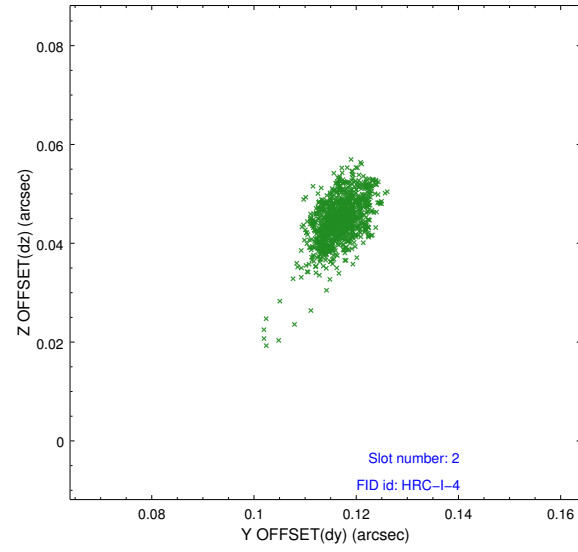
### 2.5.1 Slot 0



## 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)	2014.12.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.1771314778924

## A.2 Comments

These data have been reprocessed with new aspect alignment calibration files that correct small mean offsets (up to 0.4 arcsecs) and improve overall astrometric accuracy. The new calibration was determined using data from the time period being reprocessed and was performed using cross-correlation of X-ray sources with radio and optical counterparts.