

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 2666 - L2 Version 3  
Chandra X-Ray Center

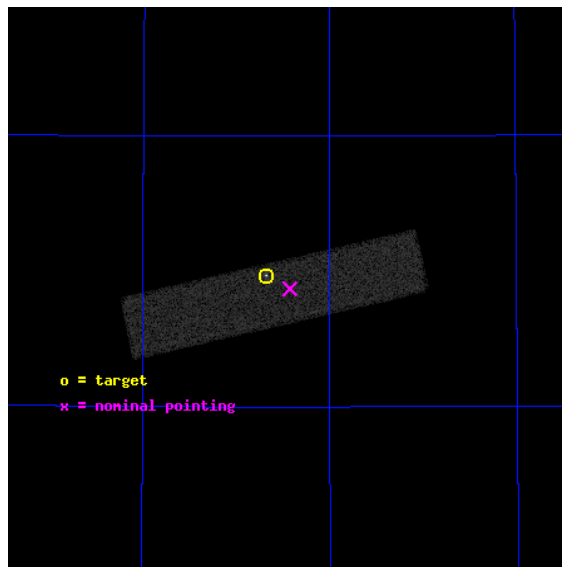
L2 Processing Date : Oct 13 2012

## 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

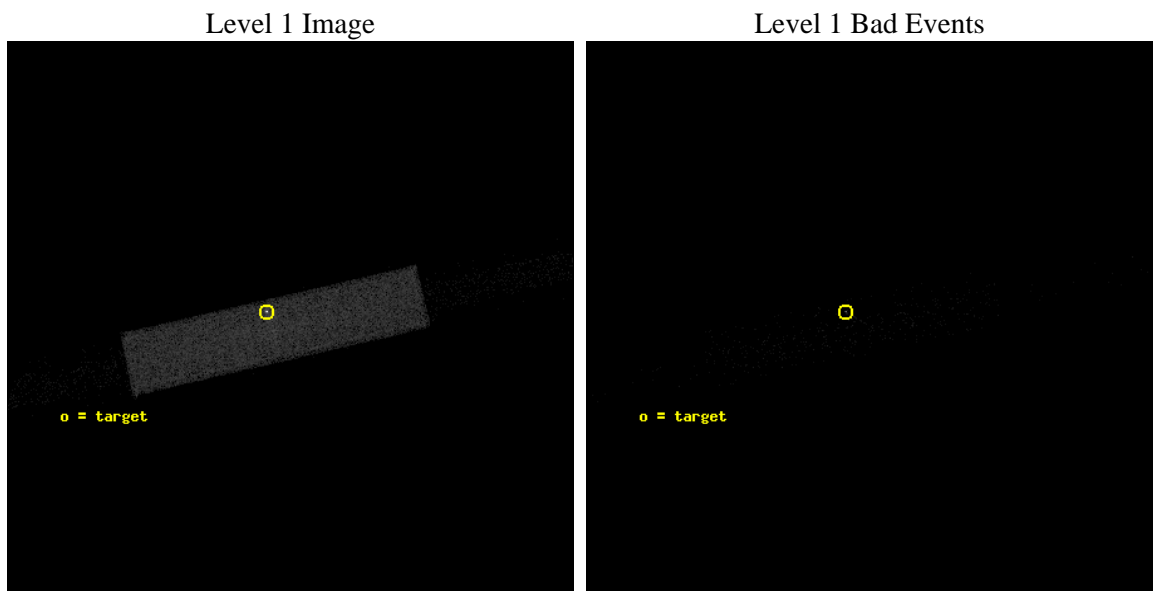
seq_num	290222	Sequence number
obs_id	2666	Observation id
title	AO3B HRC-S CALIBRATION OBSERVATION: MINI-SCAN OF ARLAC	Proposal ti
observer	Dr. CXC Calibration	Principal investigator
object	ARLAC	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.10650464448	Nominal RA [deg]
dec_nom	45.718067658754	Nominal Dec [deg]
roll_nom	167.05189870962	Nominal Roll [deg]
revision	3	Processing version of data
ontime	1142.1062970459	[s]
livetime	1136.259171725	Ontime multiplied by DTCOR
l2events	41707	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	1142.1062970459	[s]
caldsver	4.5.2	&#160	l1events	64547	Number of level 1 events
date	2012-10-14T00:26:38	Date and time of file creation			
revision	3	Processing version of data			

### 2.1.3 Events

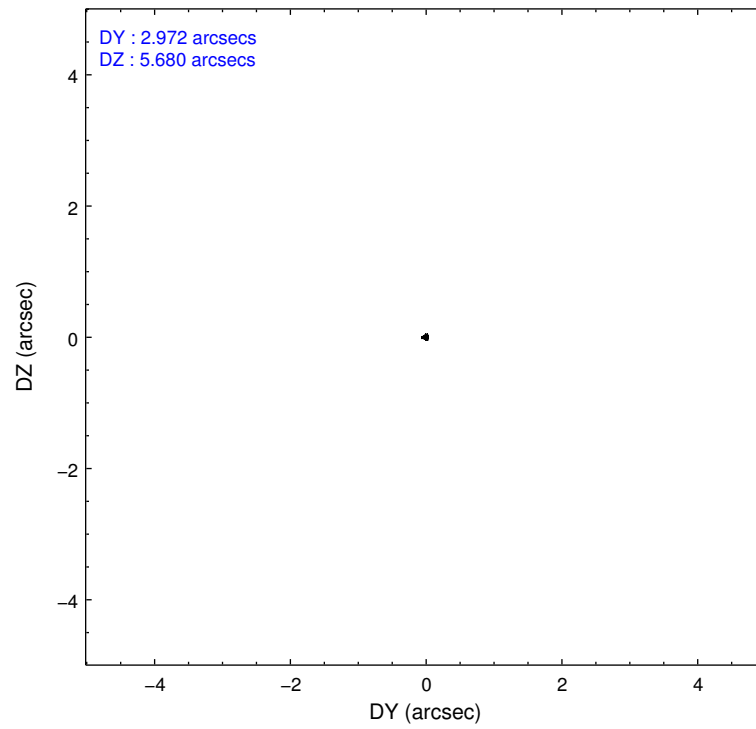
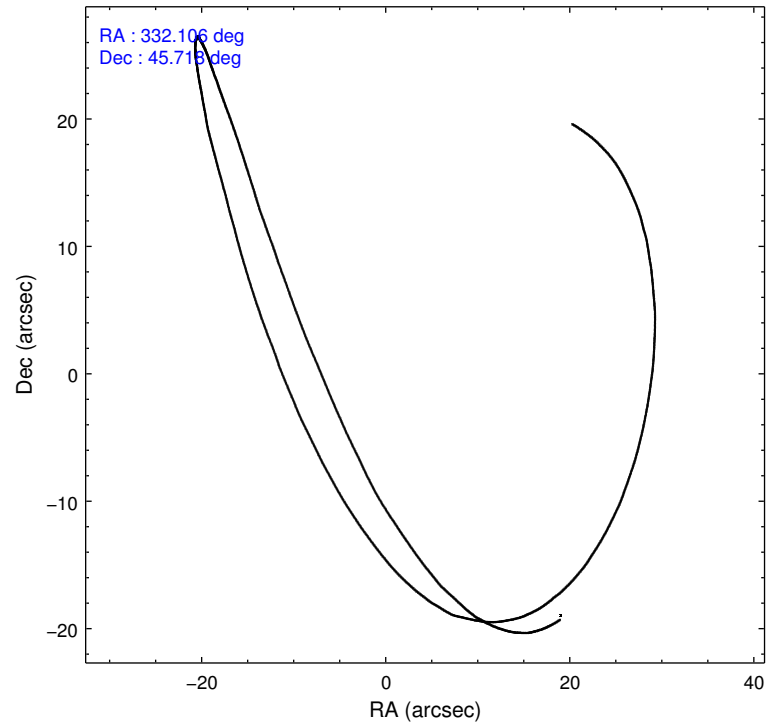
Level 1 Events

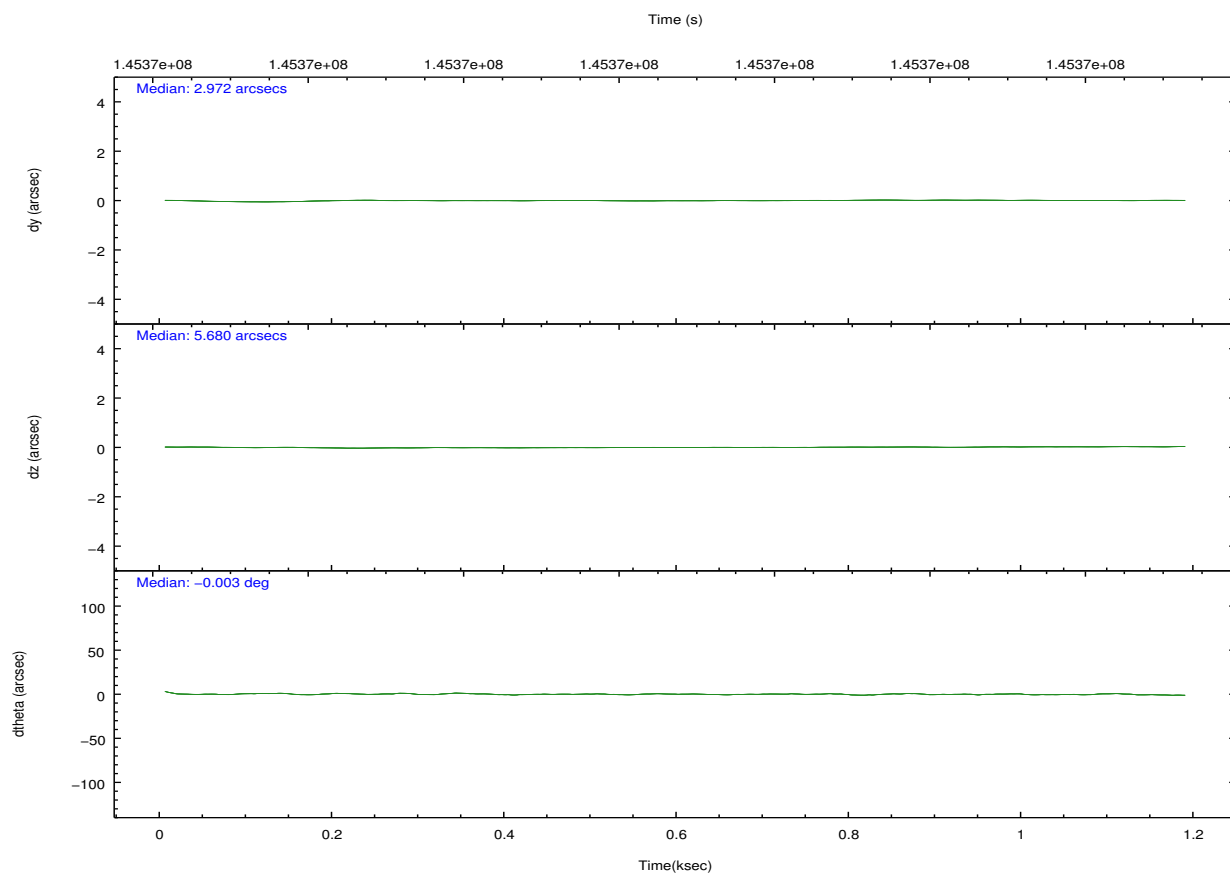
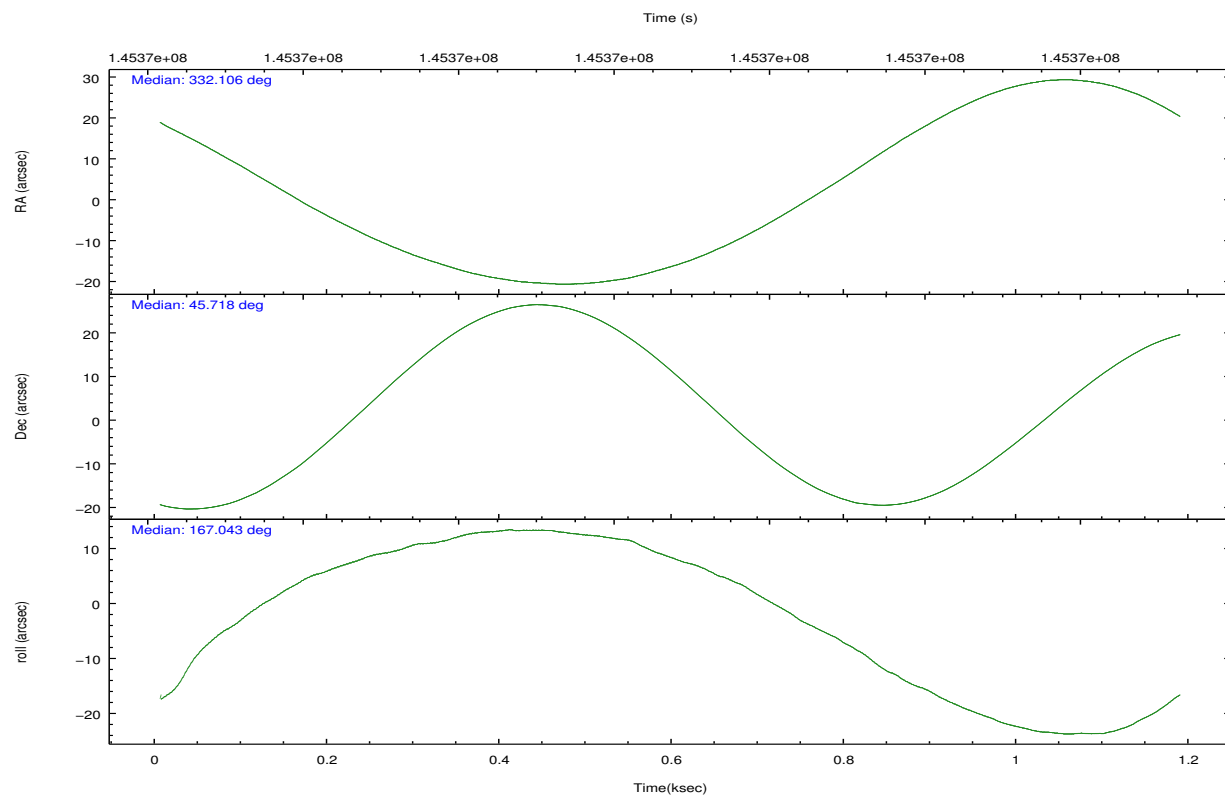
	<b>segment 1</b>	<b>segment 2</b>	<b>segment 3</b>
level 1 events	1014	62533	1000
rejected events	1014	11562	1000
rejected %	100%	18%	100%

## 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	332.144738	332.1065046444822			
[deg] Pointing Dec	45.728258	45.71806765875414			
[deg] Pointing Roll	166.957204	167.0518987096241			
[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)	145369470.184000	145369094.84031			
Observation start date	2002-08-10T12:23:26	2002-08-10T12:18:14			
[s] Observation end time (MET)	145370470.184000	145371179.1779			
Observation end date	2002-08-10T12:40:06	2002-08-10T12:52:59			

## 2.3 Aspect





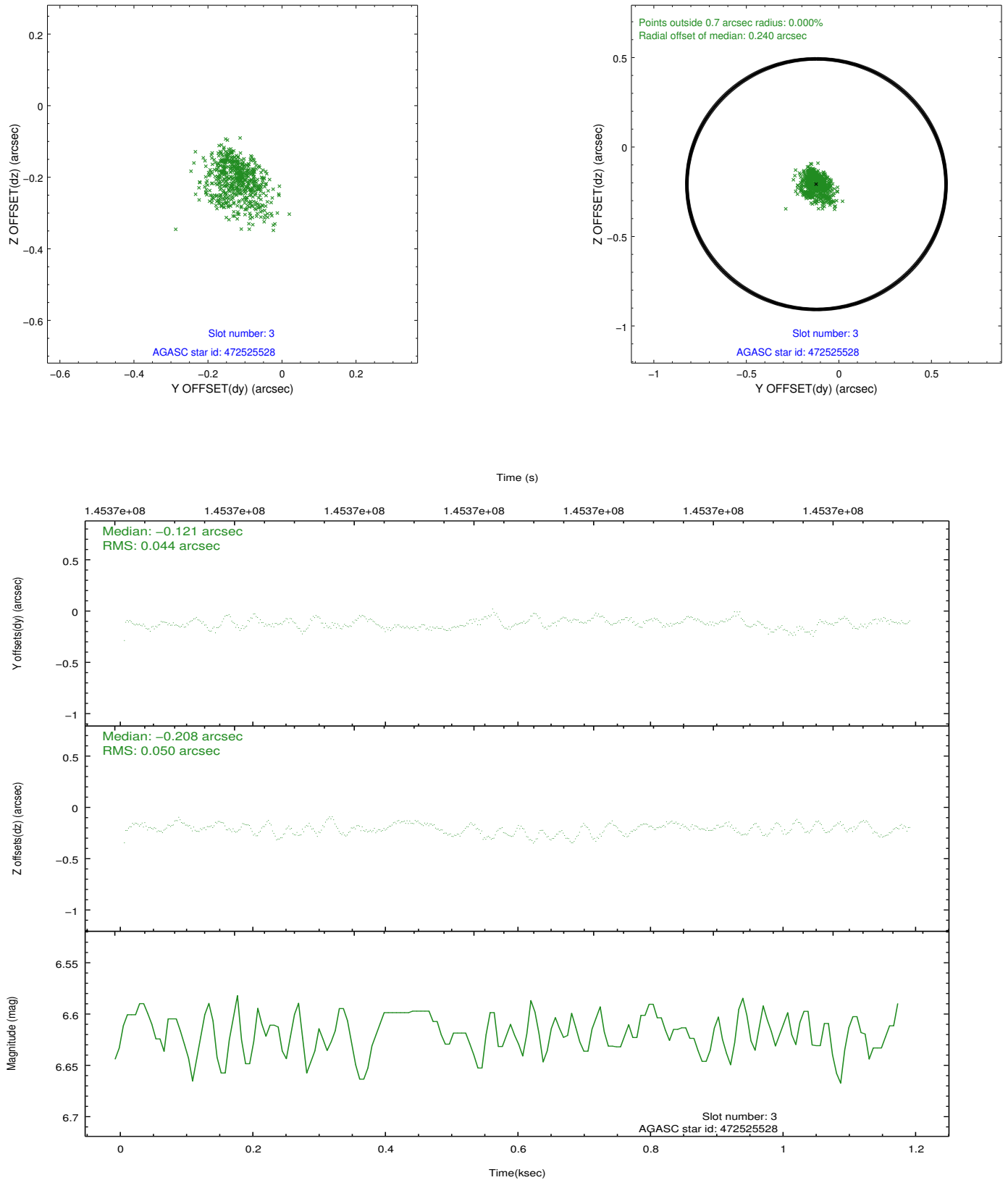
Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-S-1	6.99	289	0.156	-0.156	0.007	0.012	0.000000	0.000000	-1156.99	-454.22
1	FID	HRC-S-2	7.00	289	0.099	-0.098	0.005	0.010	0.000000	0.000000	1238.62	-448.39
2	FID	HRC-S-3	7.01	289	0.135	-0.047	0.007	0.011	0.000000	0.000000	-1155.44	573.87
3	GUIDE	472525528	6.62	579	-0.121	-0.208	0.070	0.114	331.551102	45.248694	1079.16	2014.90
4	GUIDE	472536328	8.14	579	-0.114	0.164	0.073	0.129	331.496671	46.454831	2161.99	-2189.00
5	GUIDE	472523760	8.23	579	-0.030	0.018	0.068	0.105	331.645363	45.403260	972.19	1416.16
6	GUIDE	472665256	9.02	579	0.148	0.273	0.080	0.129	332.808125	46.195041	-1225.40	-2015.45
7	GUIDE	472654568	9.45	577	0.117	-0.232	0.099	0.154	332.194449	45.063576	-663.38	2297.59

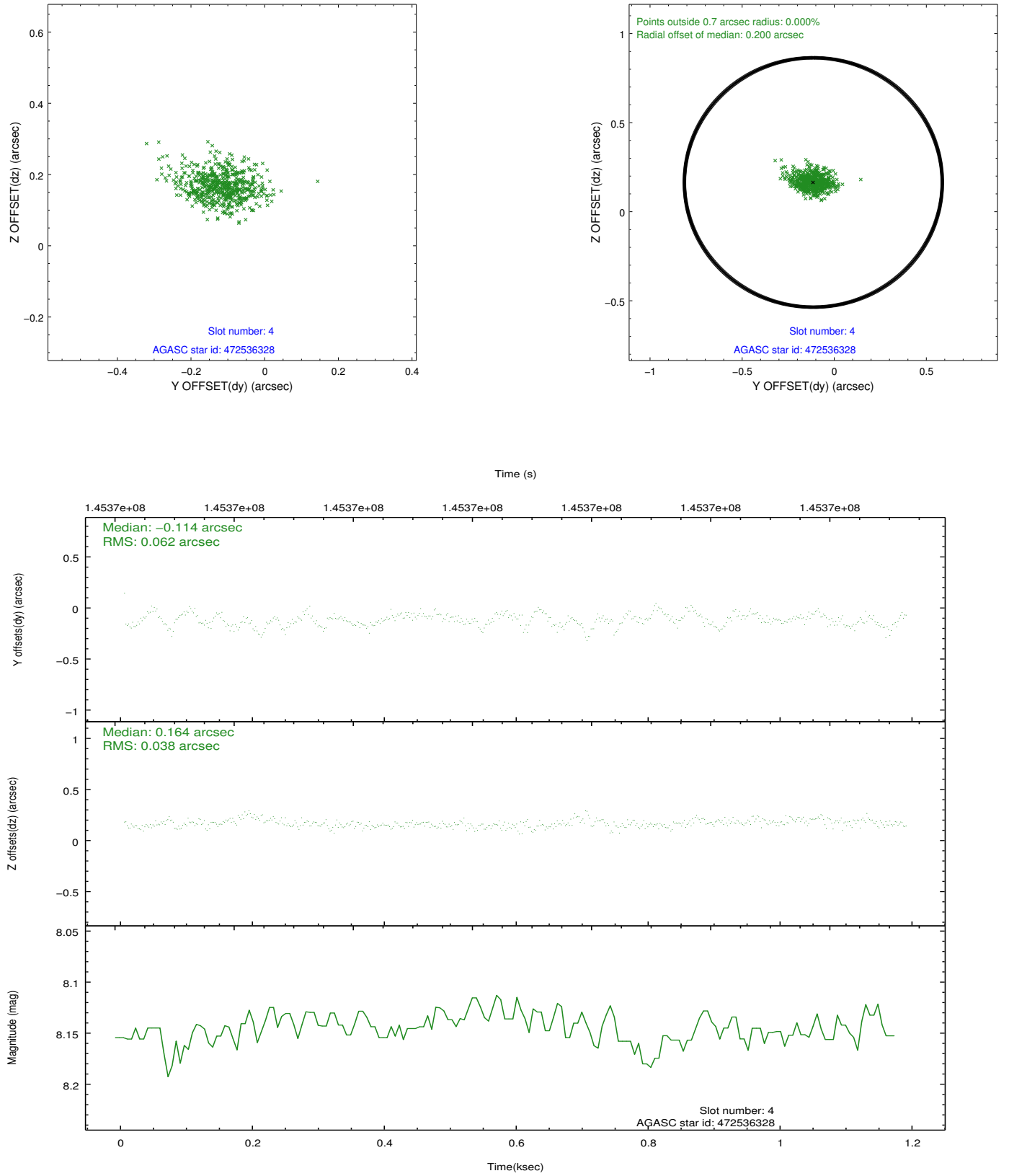


## 2.4 Star Slots

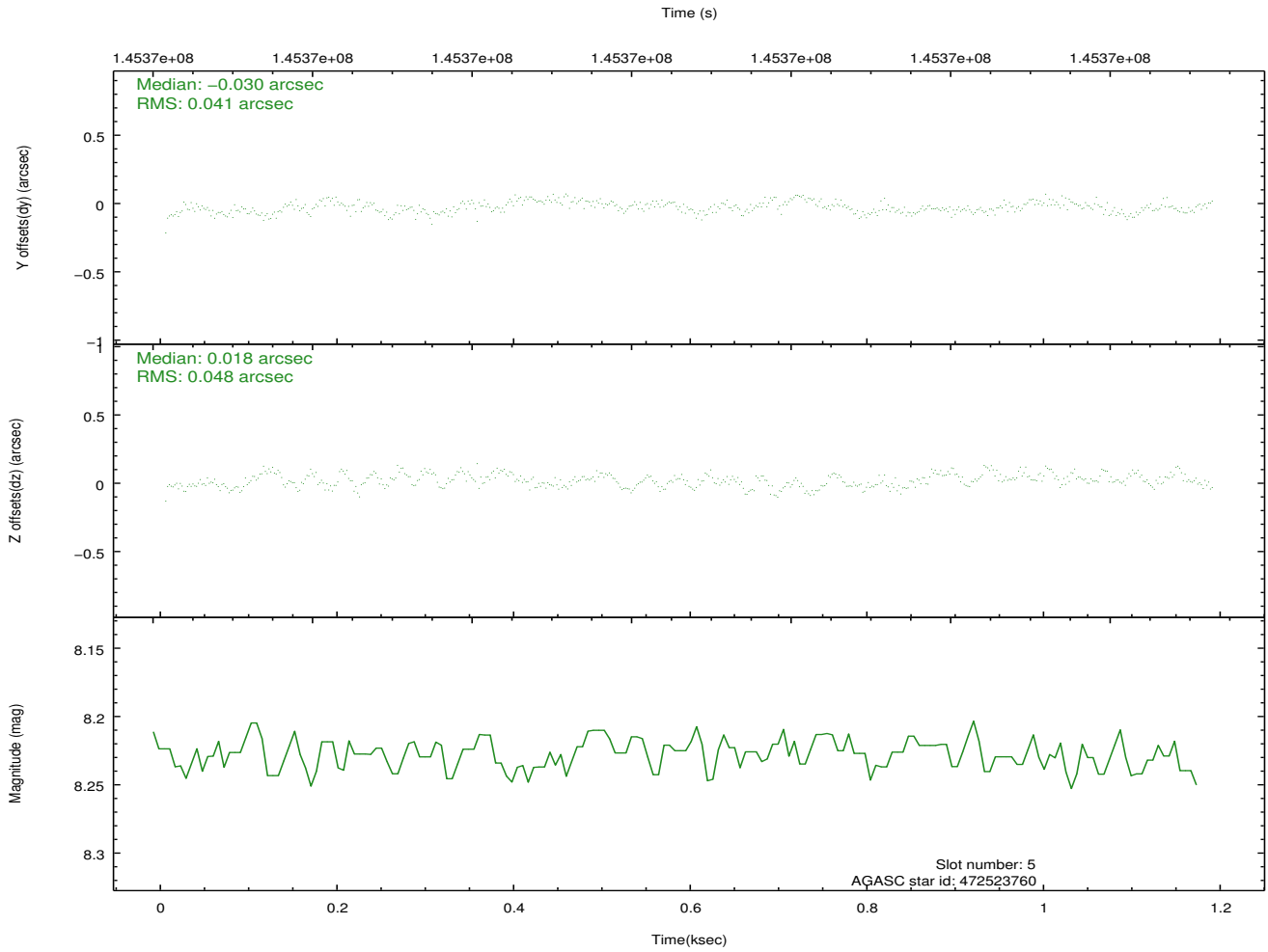
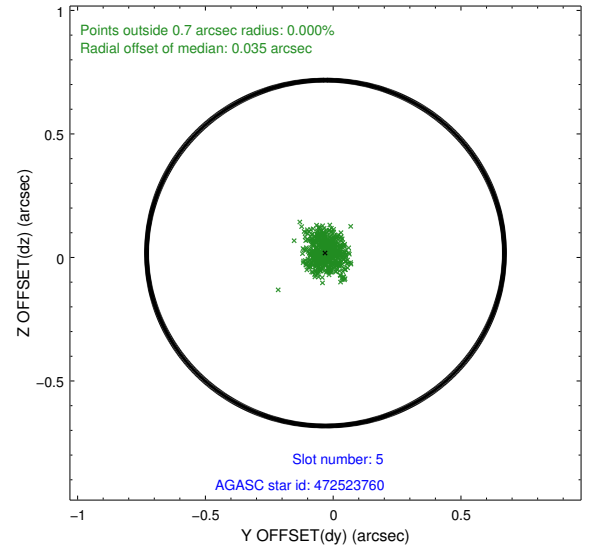
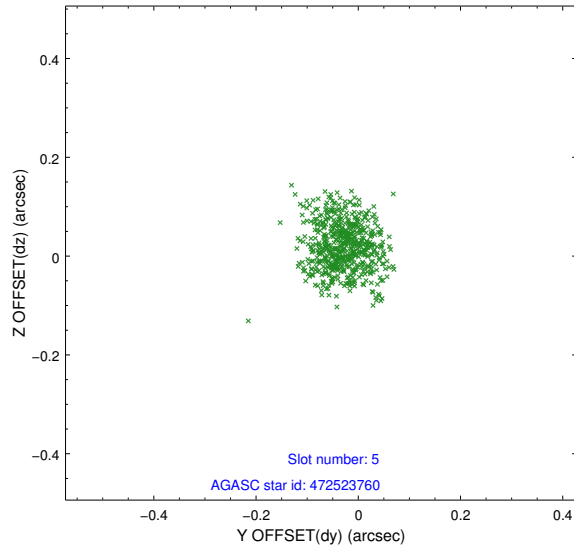
### 2.4.1 Slot 3



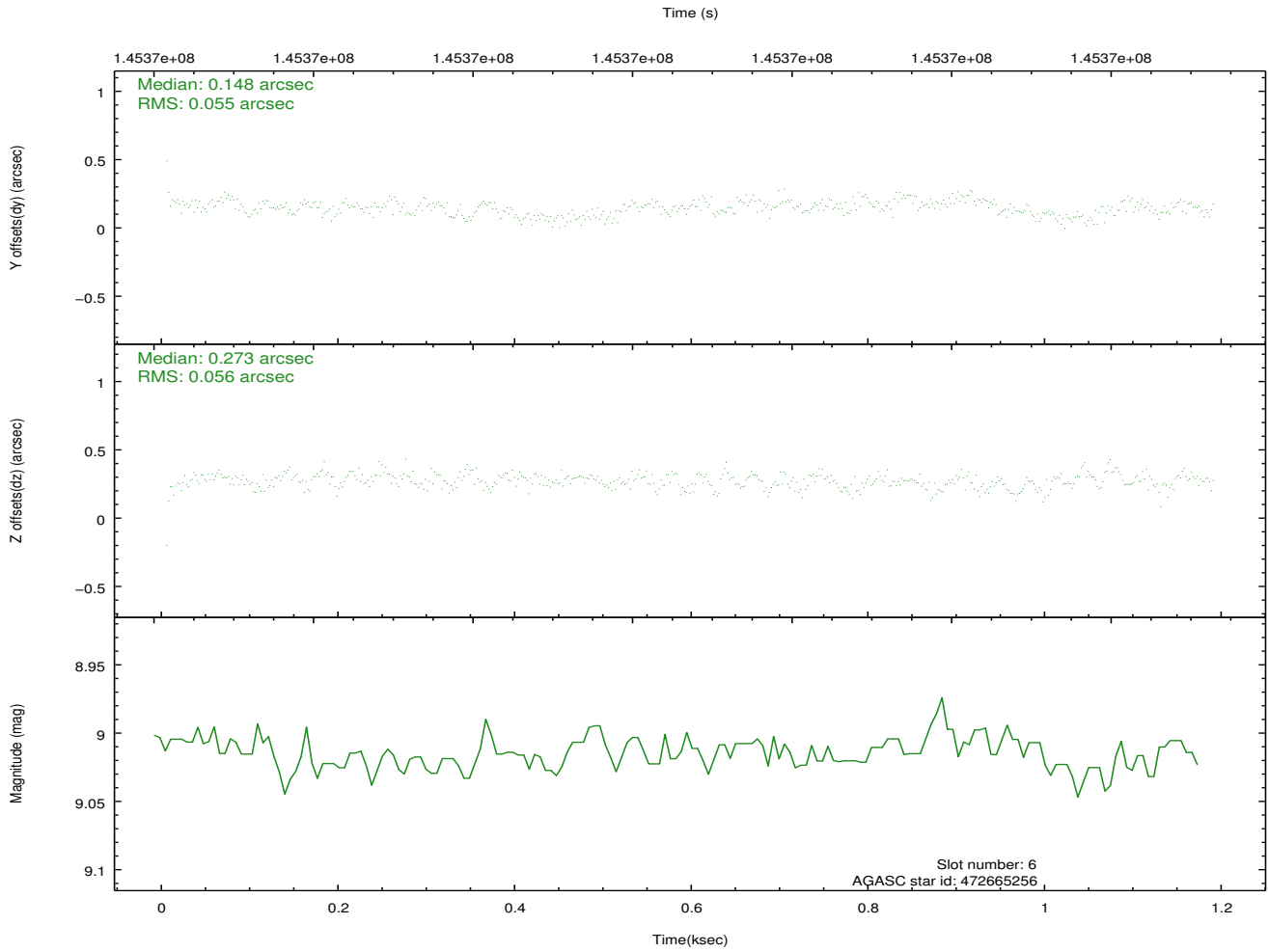
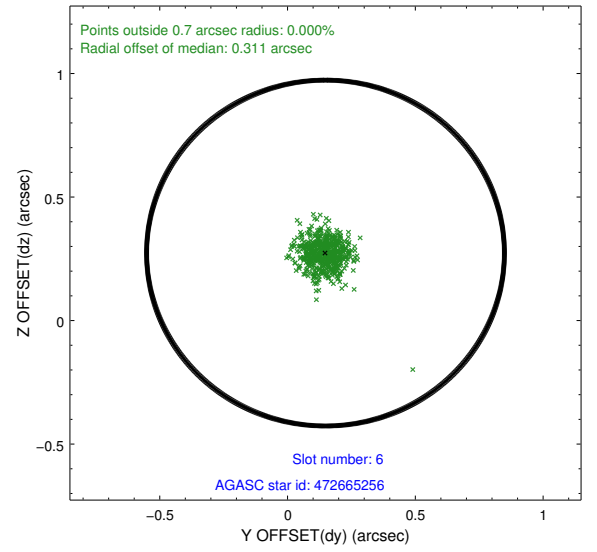
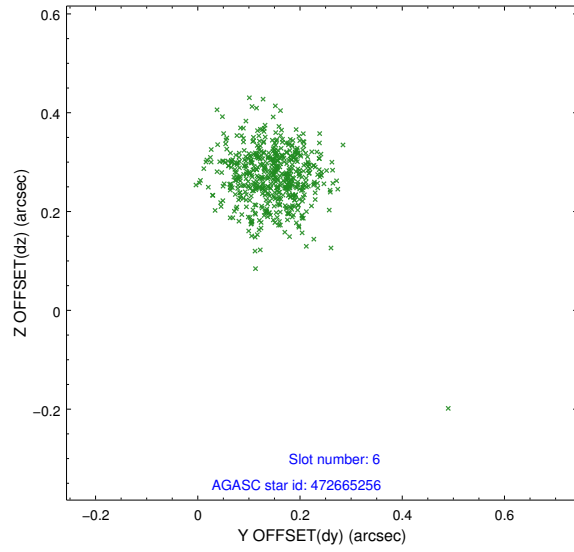
## 2.4.2 Slot 4



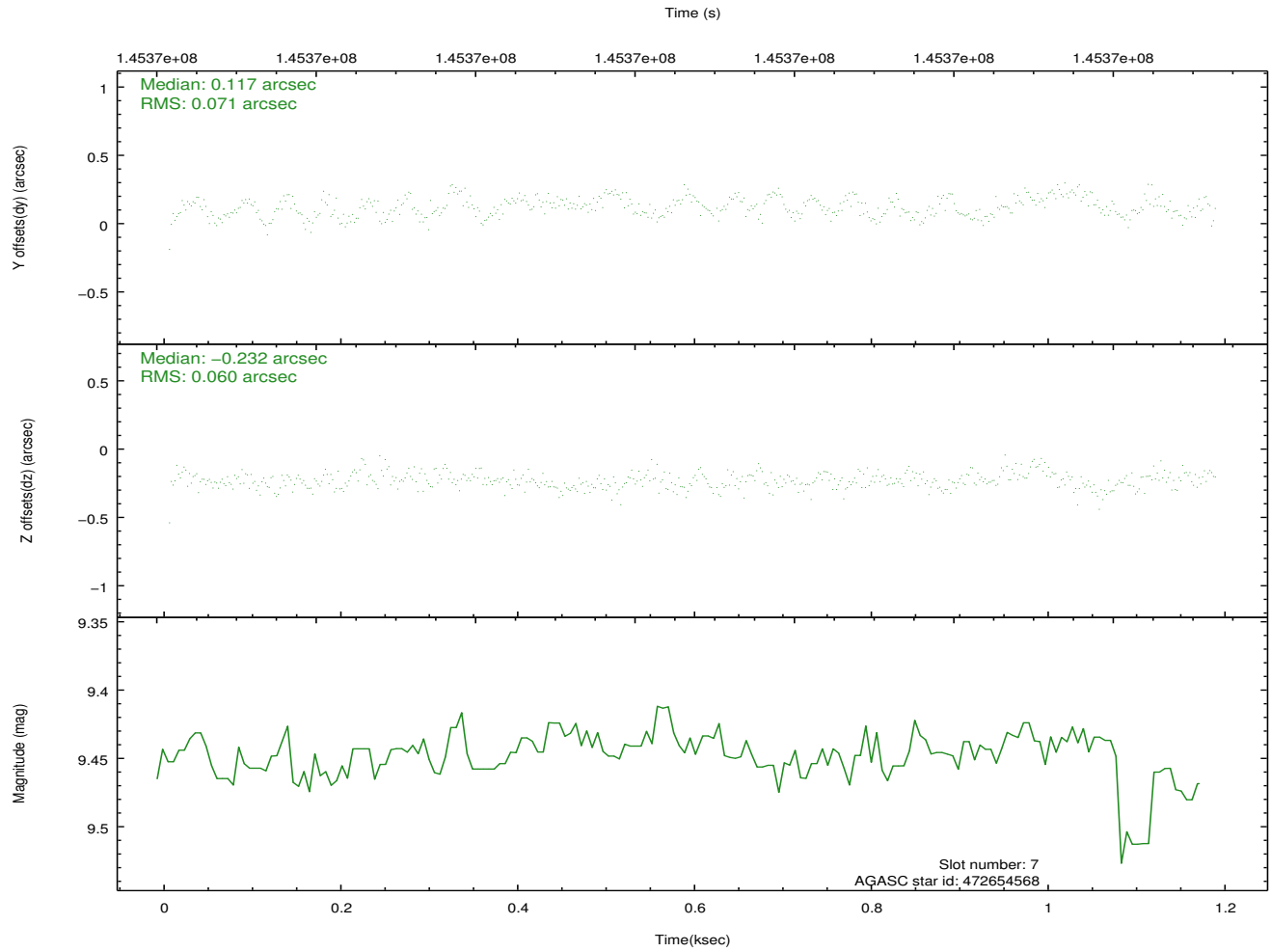
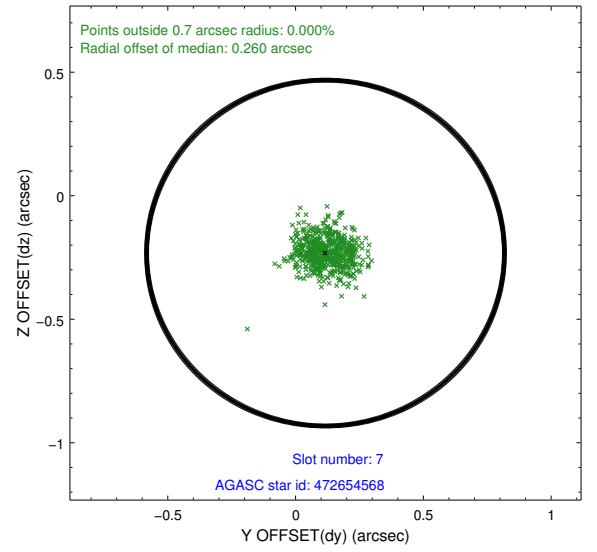
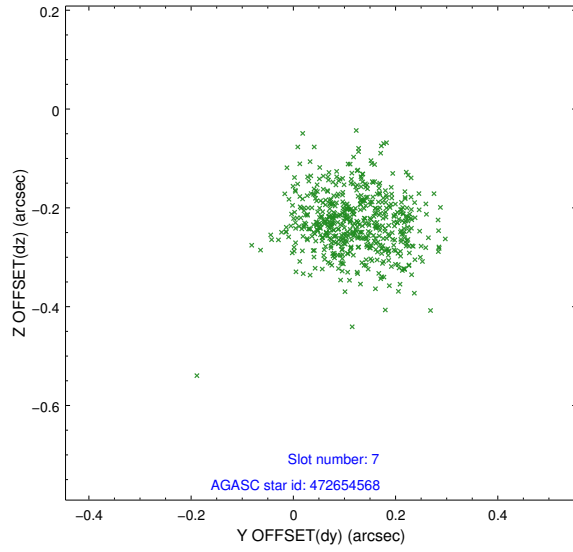
### 2.4.3 Slot 5



## 2.4.4 Slot 6

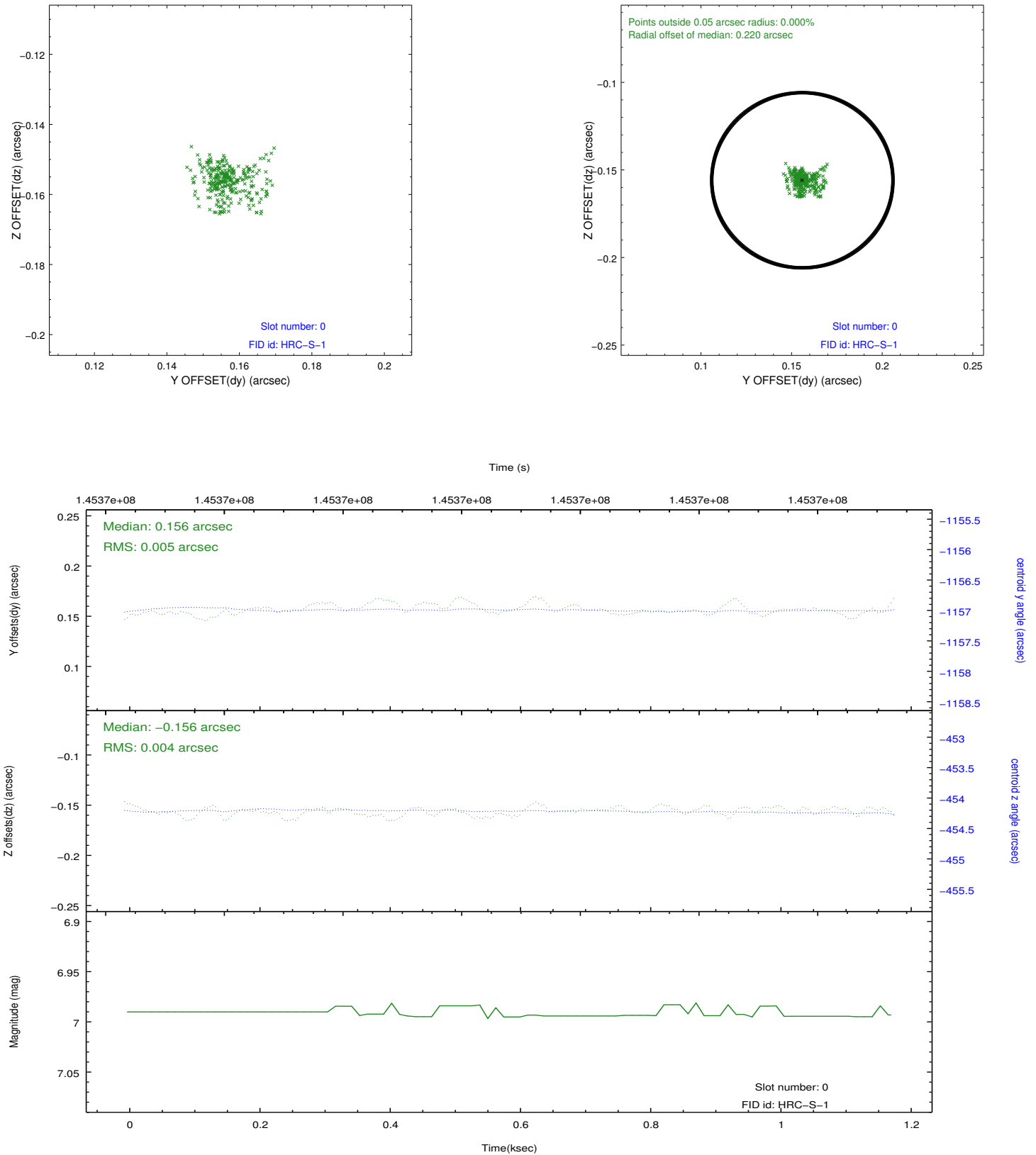


## 2.4.5 Slot 7

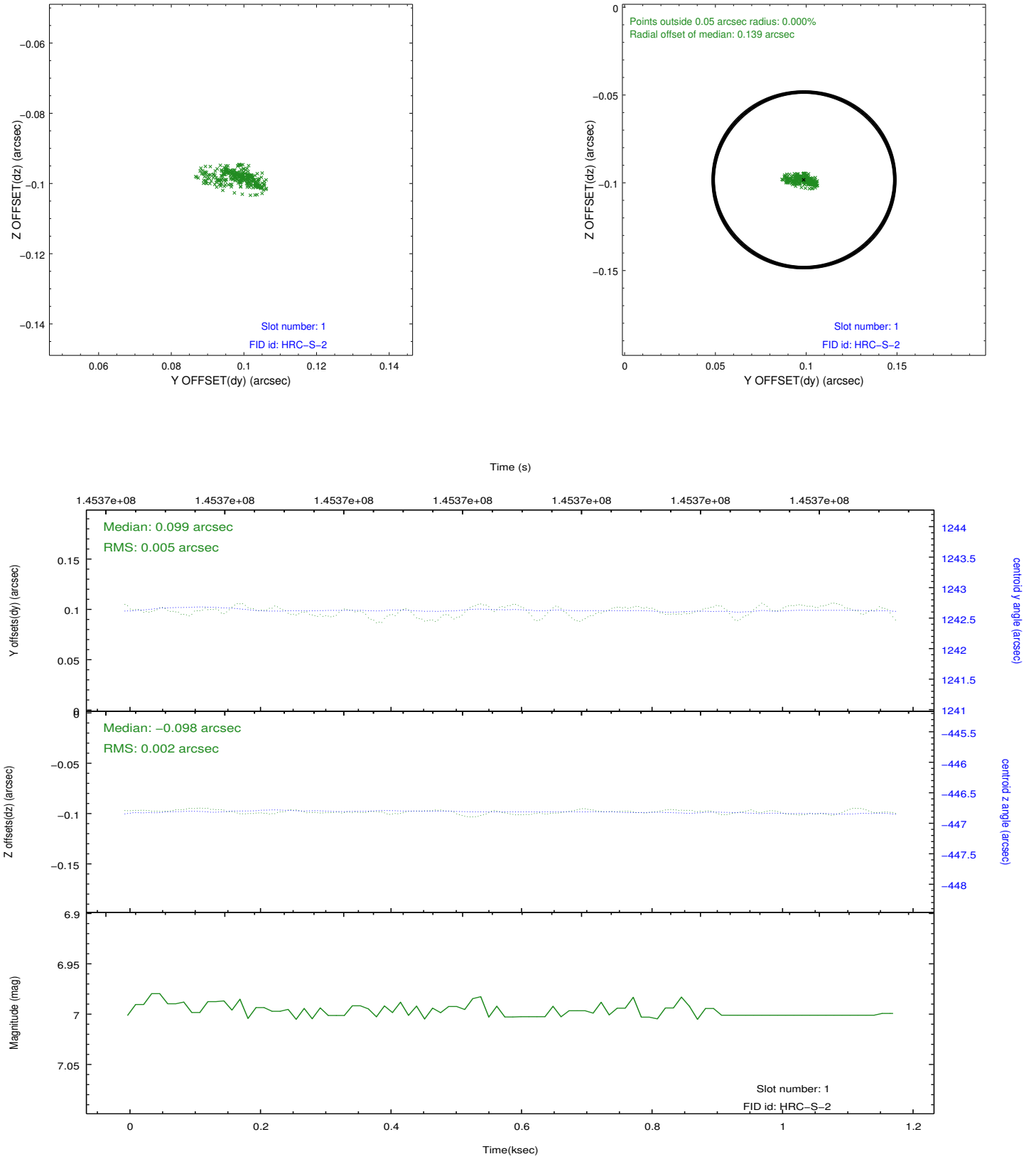


## 2.5 FID Slots

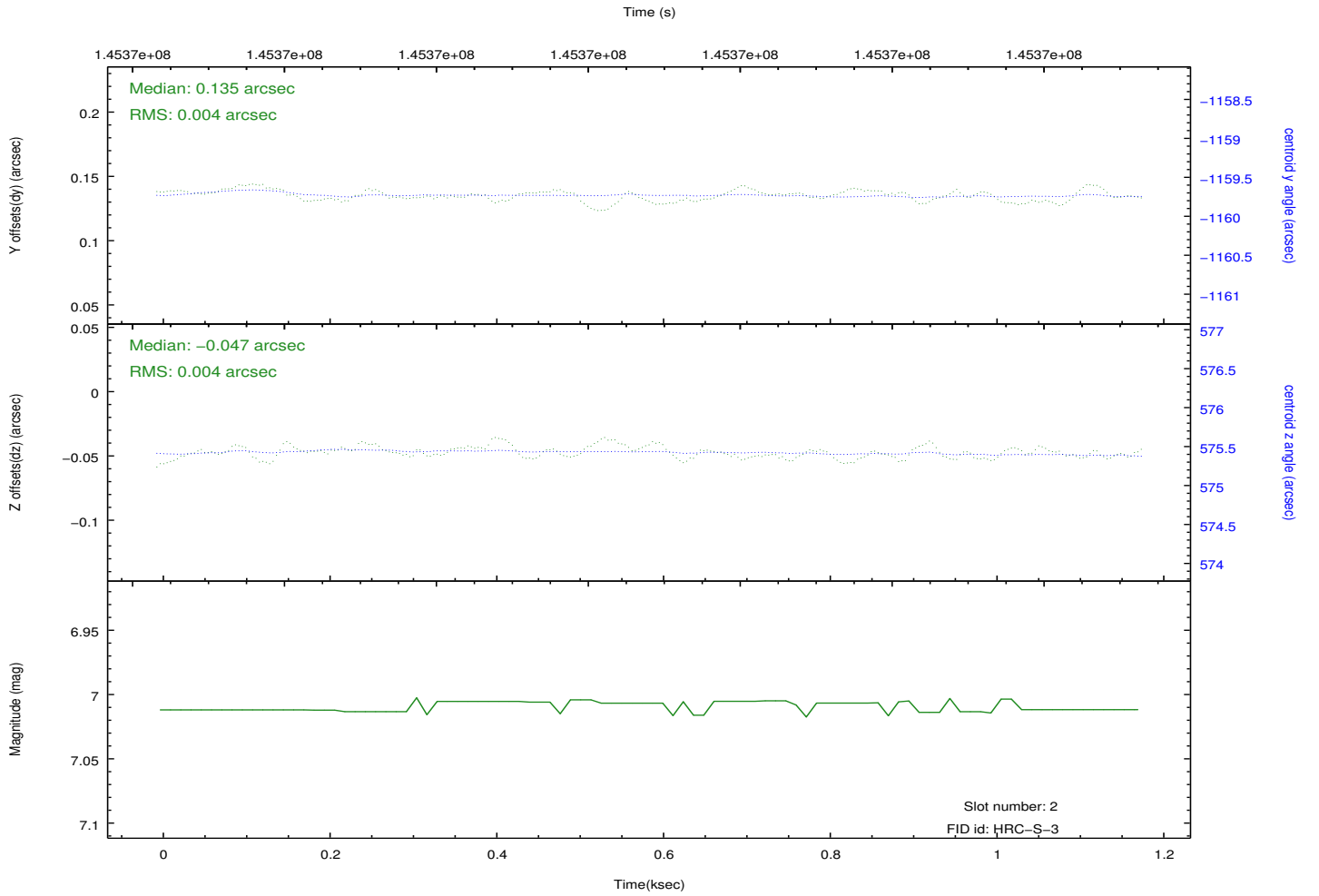
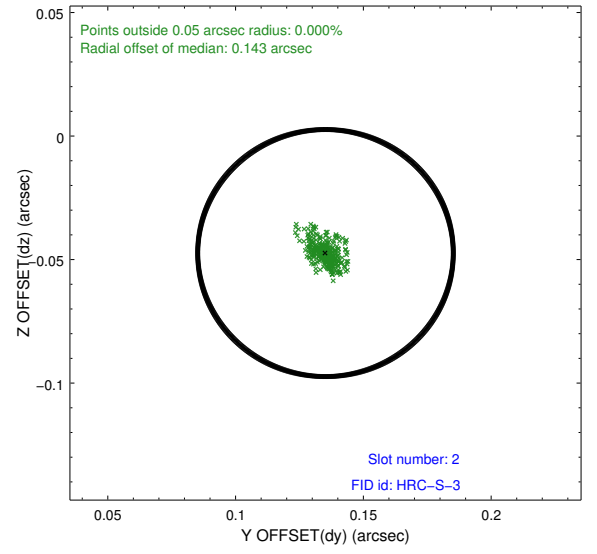
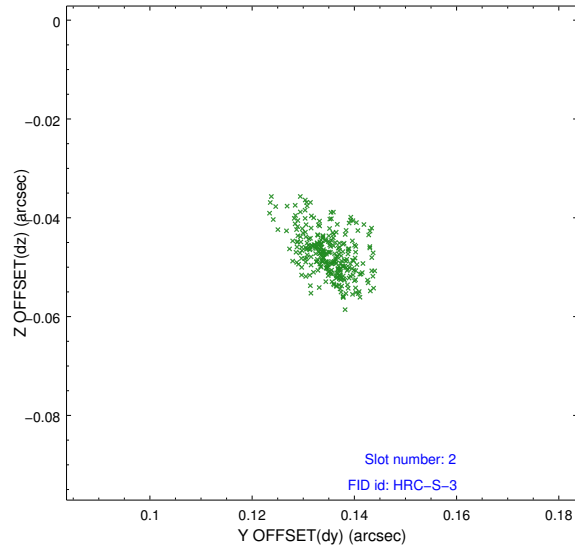
### 2.5.1 Slot 0



## 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)	2012.10.22
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.177

## A.2 Comments

Charge time for this ObsId remains at previous value of 1.177 ks although with the current processing the charge time would have been 1.14 ksec. Monitor constraint met.