

# V&V Reference Report

## L2 ASCDS Version : 8.5

Observation 5157 - L2 Version 5  
Chandra X-Ray Center

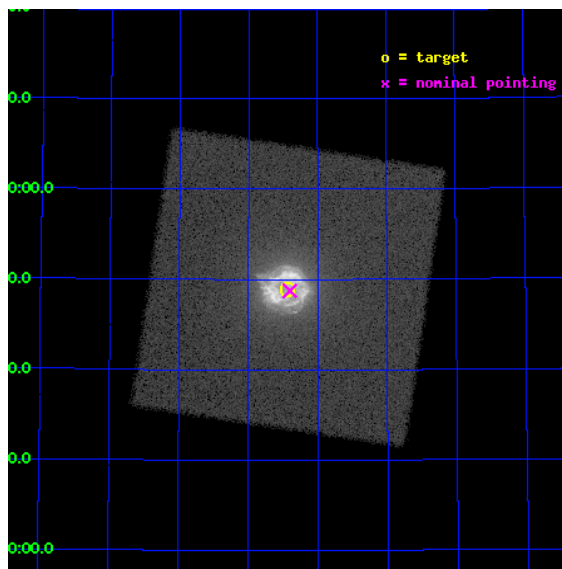
L2 Processing Date : Dec 10 2012

## 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

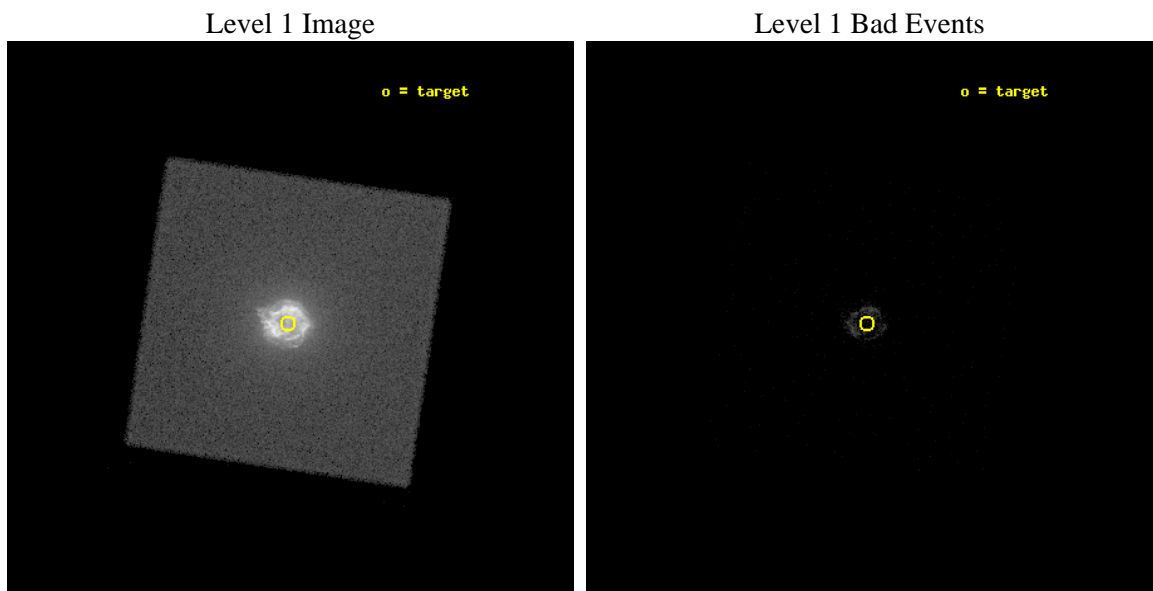
seq_num	590355	Sequence number
obs_id	5157	Observation id
title	AO5B Observations of the Standard Candles Cas A and G21.5-09	Propo
observer	Dr. CXC Calibration	Principal investigator
object	Cas A	Source name
ra_targ	350.8575	Observer's specified target RA [deg]
dec_targ	58.814833	Observer's specified target Dec [deg]
ra_nom	350.85030476402	Nominal RA [deg]
dec_nom	58.812540227654	Nominal Dec [deg]
roll_nom	233.47807511167	Nominal Roll [deg]
revision	5	Processing version of data
ontime	5144.7314805984	[s]
livetime	5075.1683719976	Ontime multiplied by DTCOR
l2events	649236	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	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.5	Processing system revision	ontime	5144.7314805984	[s]
caldbver	4.5.4	&#160	l1events	784542	Number of level 1 events
date	2012-12-10T11:47:03	Date and time of file creation			
revision	5	Processing version of data			

### 2.1.3 Events

#### Level 1 Events

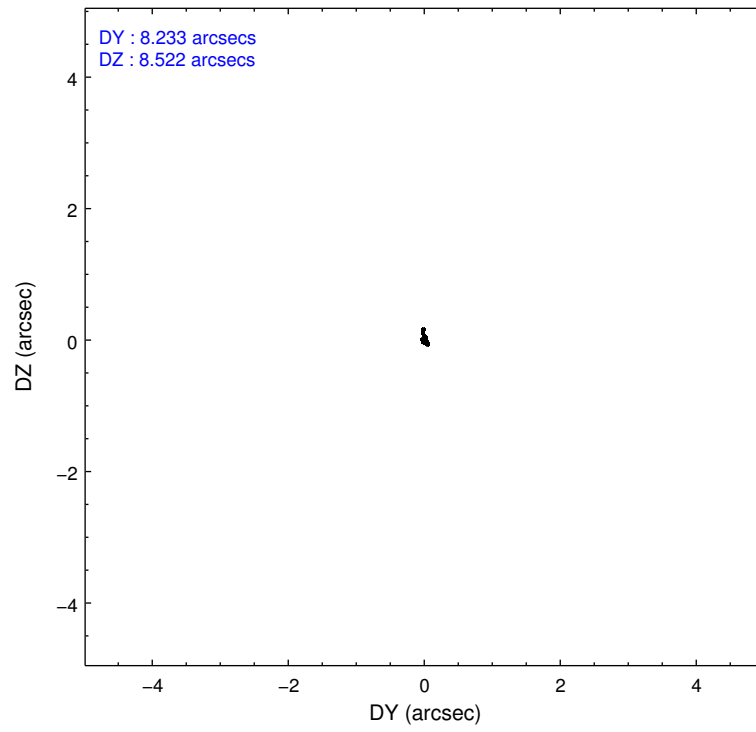
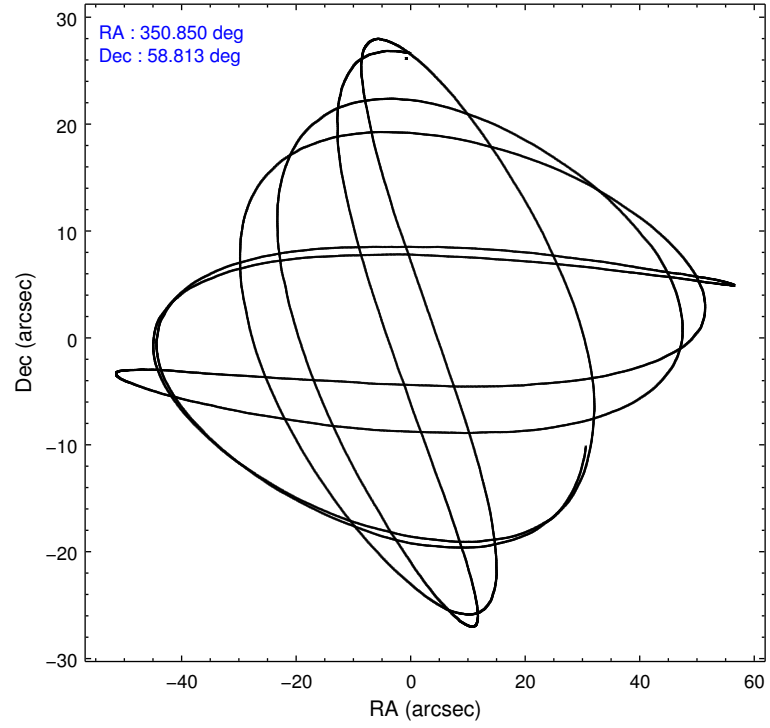
	<b>segment 0</b>
level 1 events	784542
rejected events	13512
rejected %	1%

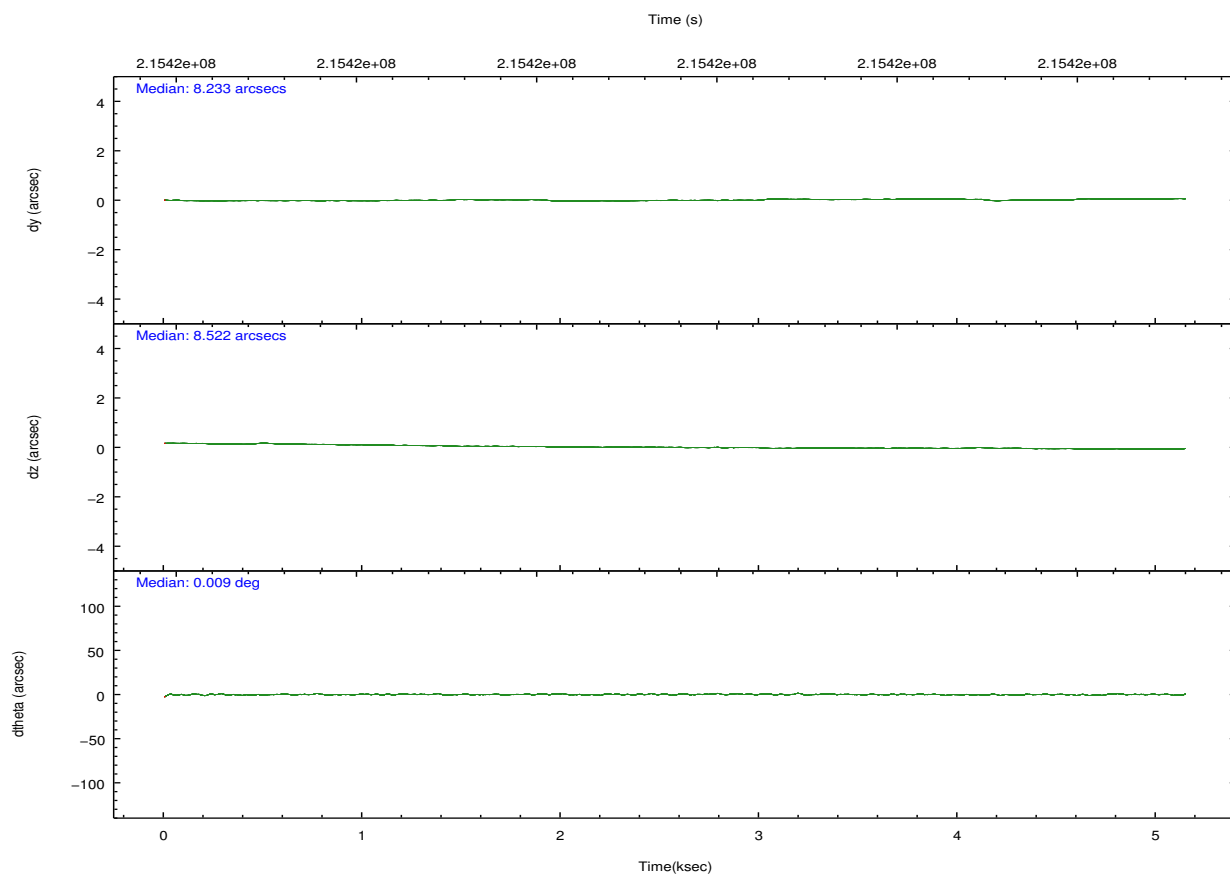
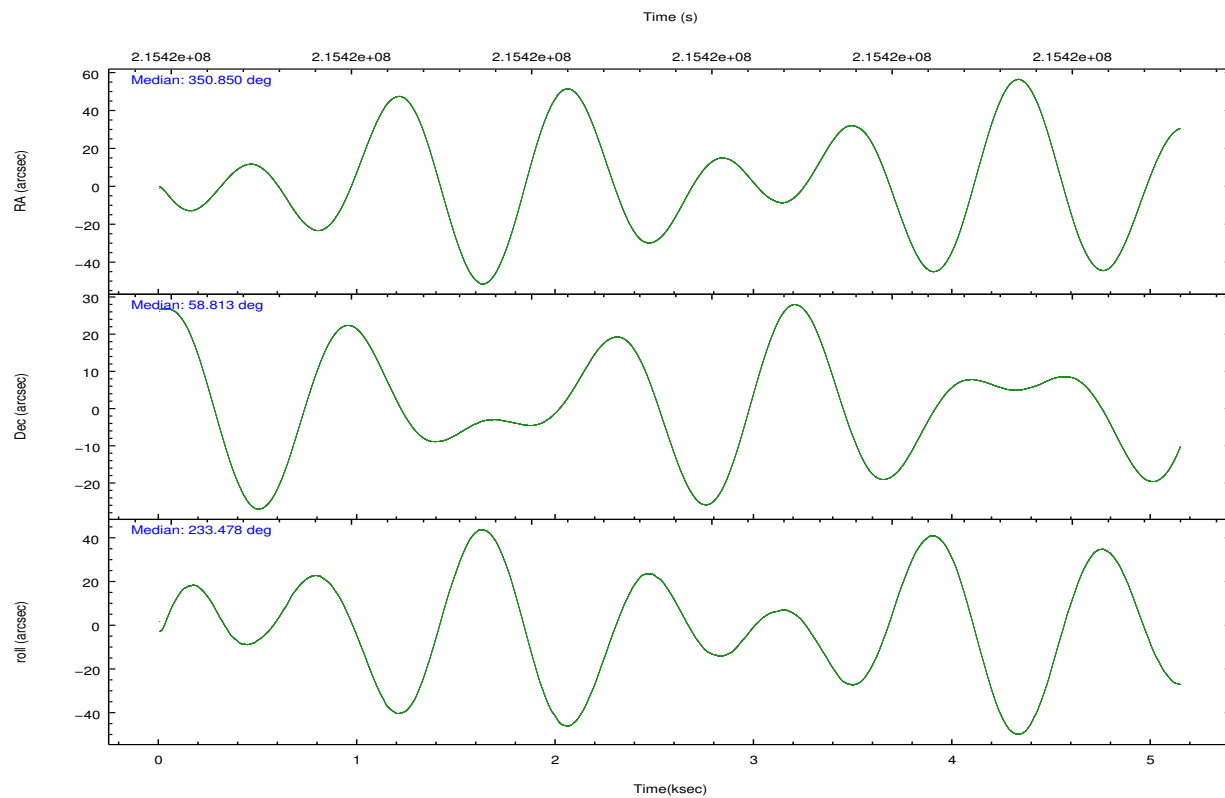


## 2.2 Compared Parameters

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	350.855334	350.8503047640181			
[deg] Pointing Dec	58.839694	58.81254022765365			
[deg] Pointing Roll	233.569259	233.4780751116682			
[s] Window start time (MET)	212976064.184000	212976064.184000			
[s] Window stop time (MET)	215568064.184000	215568064.184000			
[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)	215416346.184000	215415949.13943			
Observation start date	2004-10-29T05:51:22	2004-10-29T05:45:49			
[s] Observation end time (MET)	215421346.184000	215422343.08972			
Observation end date	2004-10-29T07:14:42	2004-10-29T07:32:23			

## 2.3 Aspect



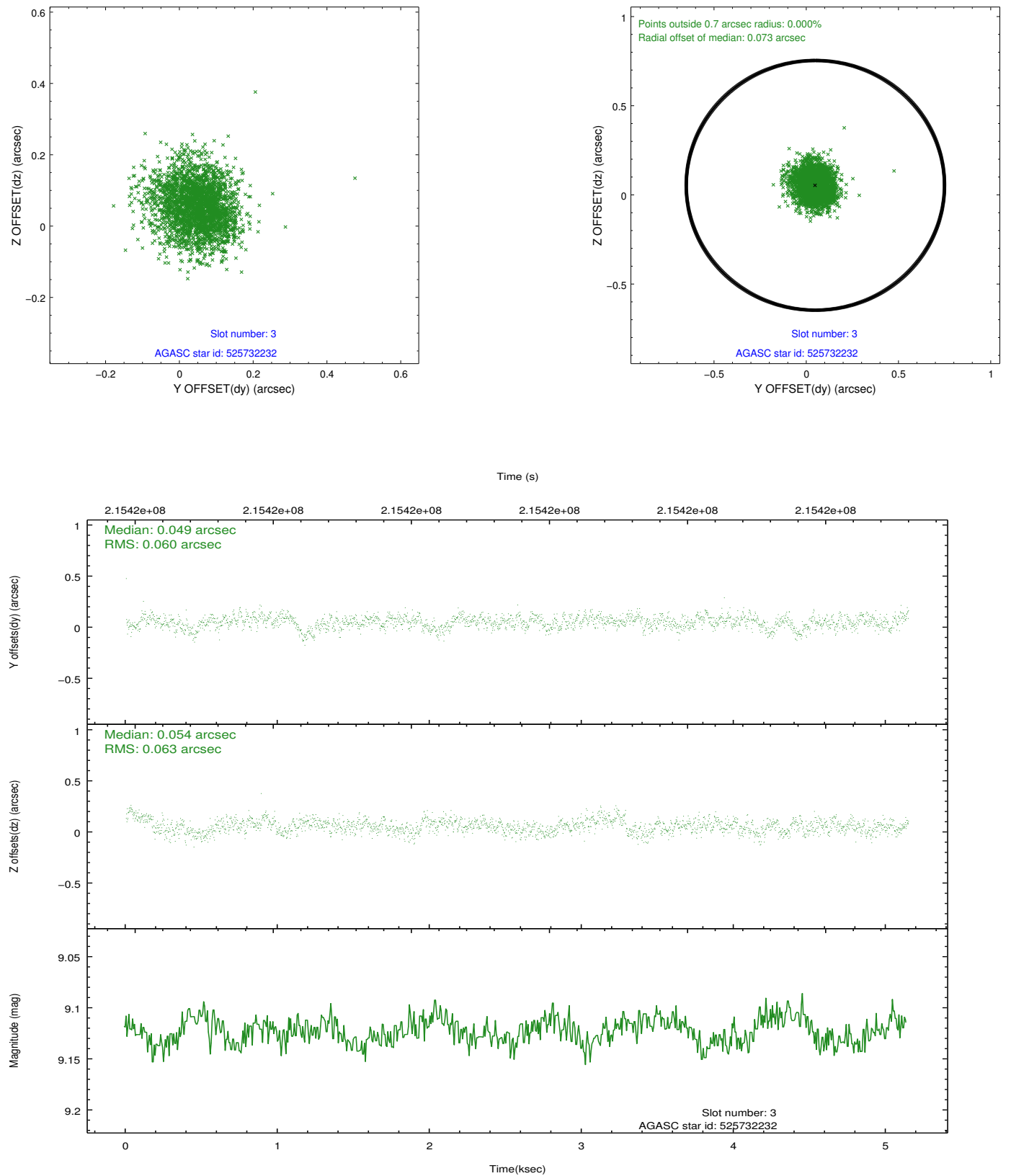


### Slot Statistics

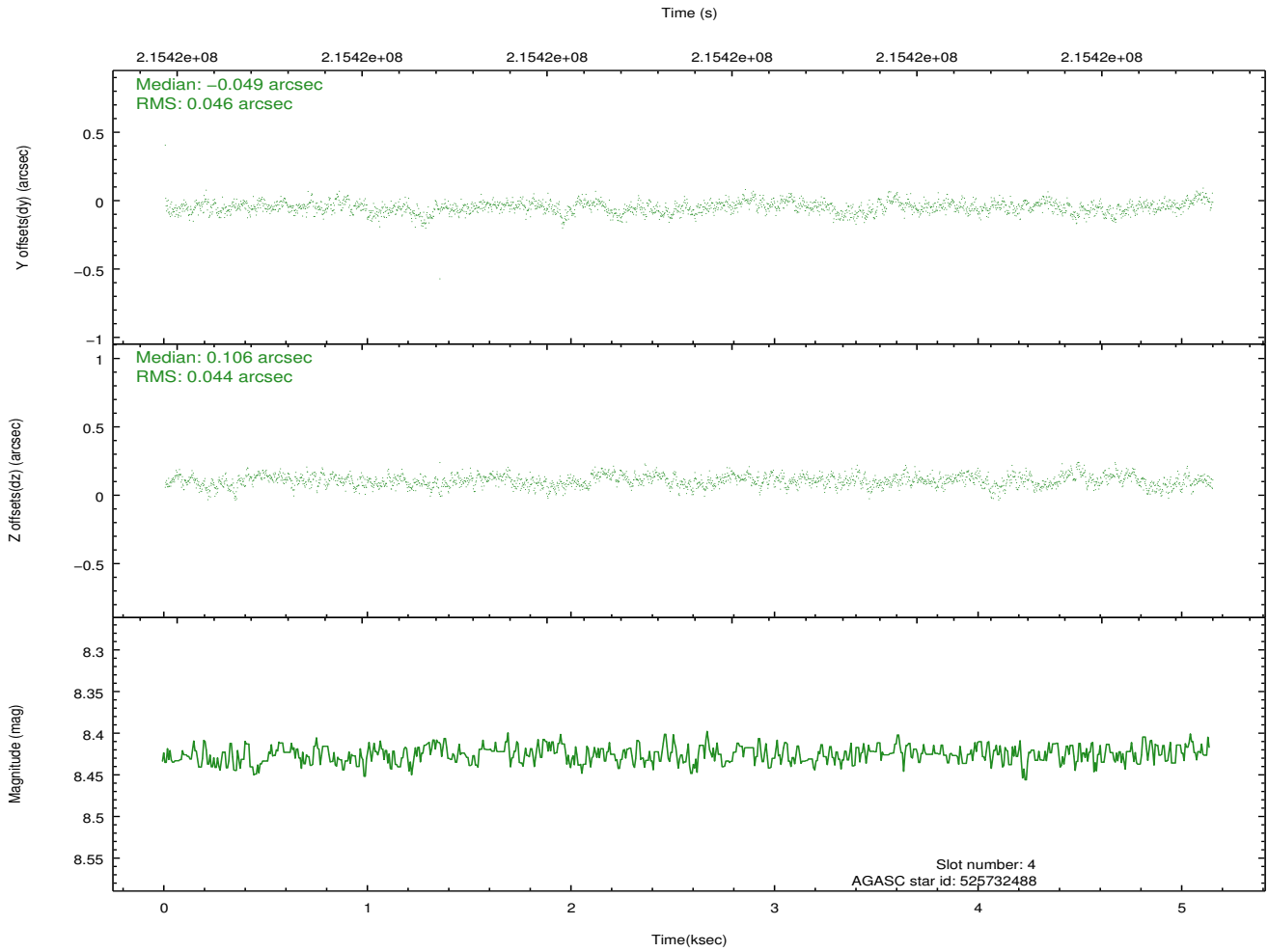
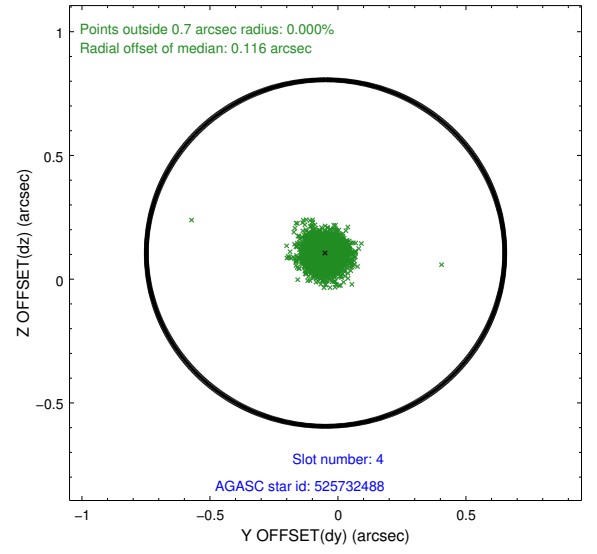
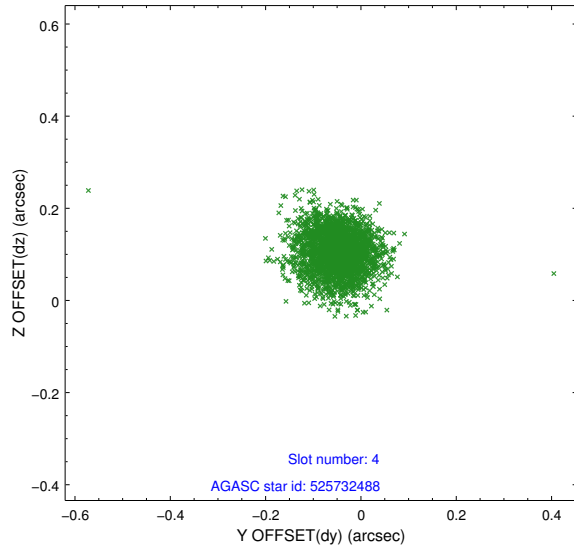
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-I-1	7.04	1255	-0.014	0.047	0.007	0.013	0.000000	0.000000	-763.89	-1296.38
1	FID	HRC-I-2	7.08	1256	0.172	-0.136	0.006	0.011	0.000000	0.000000	848.32	-1299.18
2	FID	HRC-I-3	7.13	1255	-0.040	-0.000	0.007	0.015	0.000000	0.000000	-1191.70	1007.11
3	GUIDE	525732232	9.12	2509	0.049	0.054	0.092	0.153	351.669550	58.757012	-671.11	1395.57
4	GUIDE	525732488	8.43	2511	-0.049	0.106	0.066	0.107	350.087090	58.516915	1785.15	-476.00
5	GUIDE	525736400	9.08	2509	-0.039	0.149	0.088	0.146	350.974563	59.175145	-1102.15	-540.13
6	GUIDE	525735976	8.84	2511	-0.056	-0.119	0.076	0.123	350.142956	58.277622	2422.13	112.35
7	GUIDE	525732528	9.36	2508	0.098	-0.193	0.086	0.145	351.607241	59.298932	-2156.49	125.60

## 2.4 Star Slots

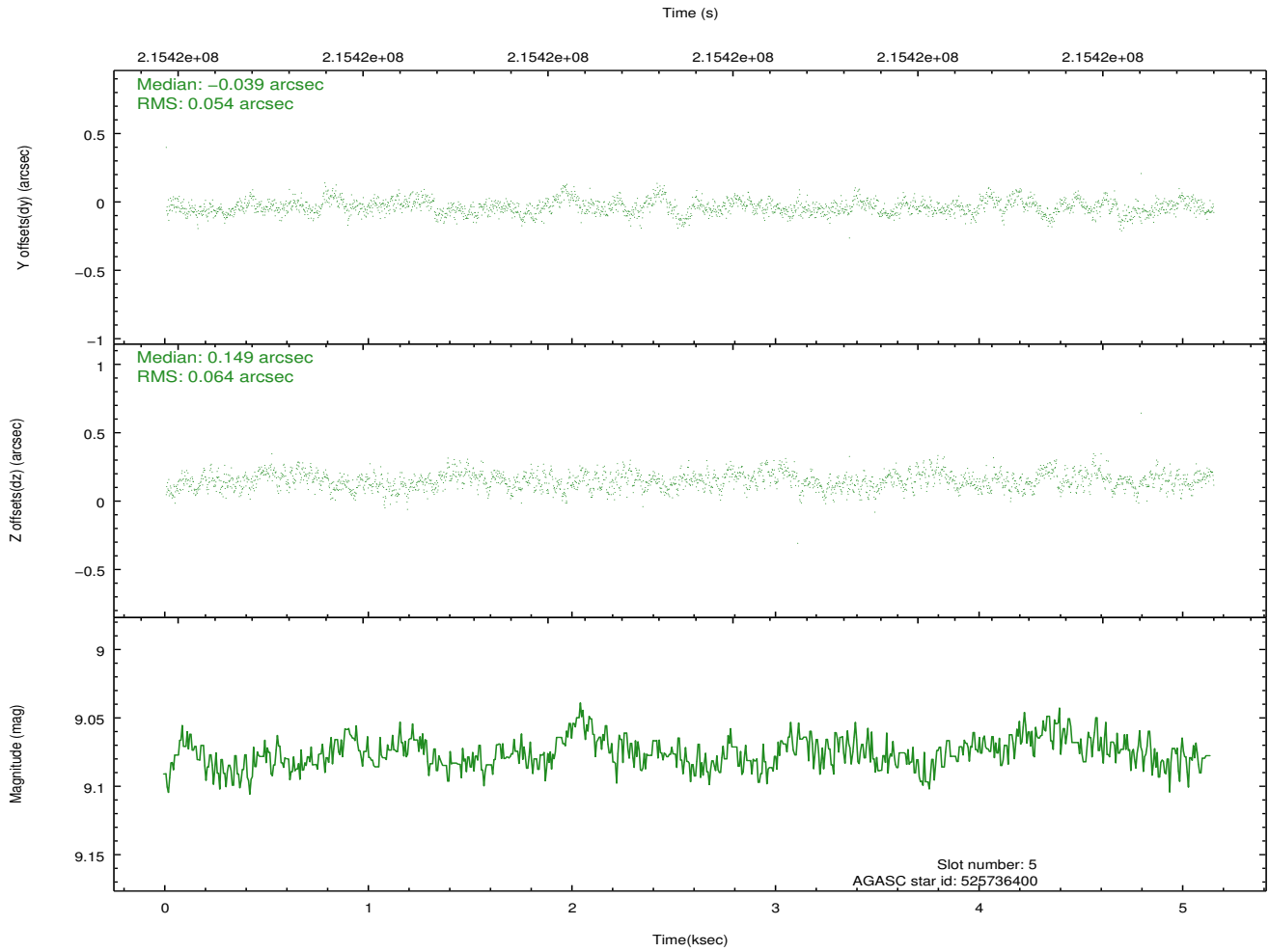
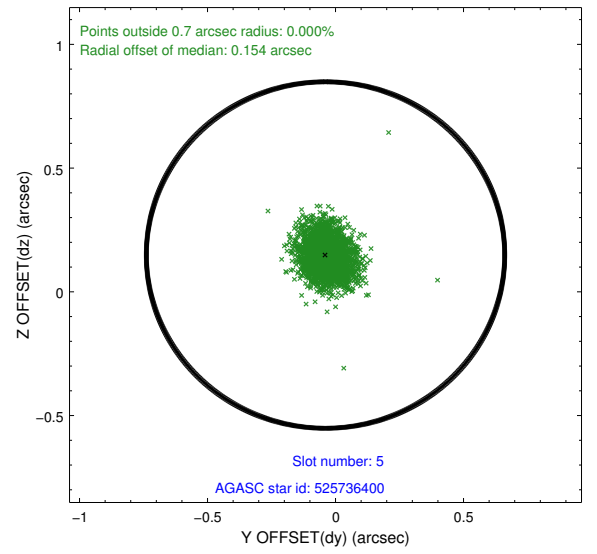
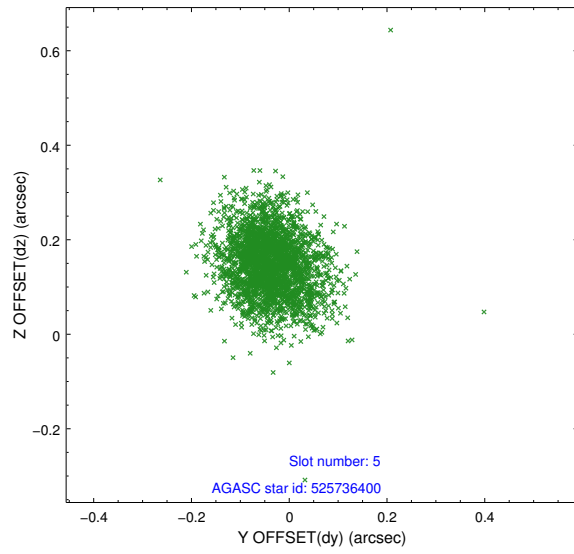
### 2.4.1 Slot 3



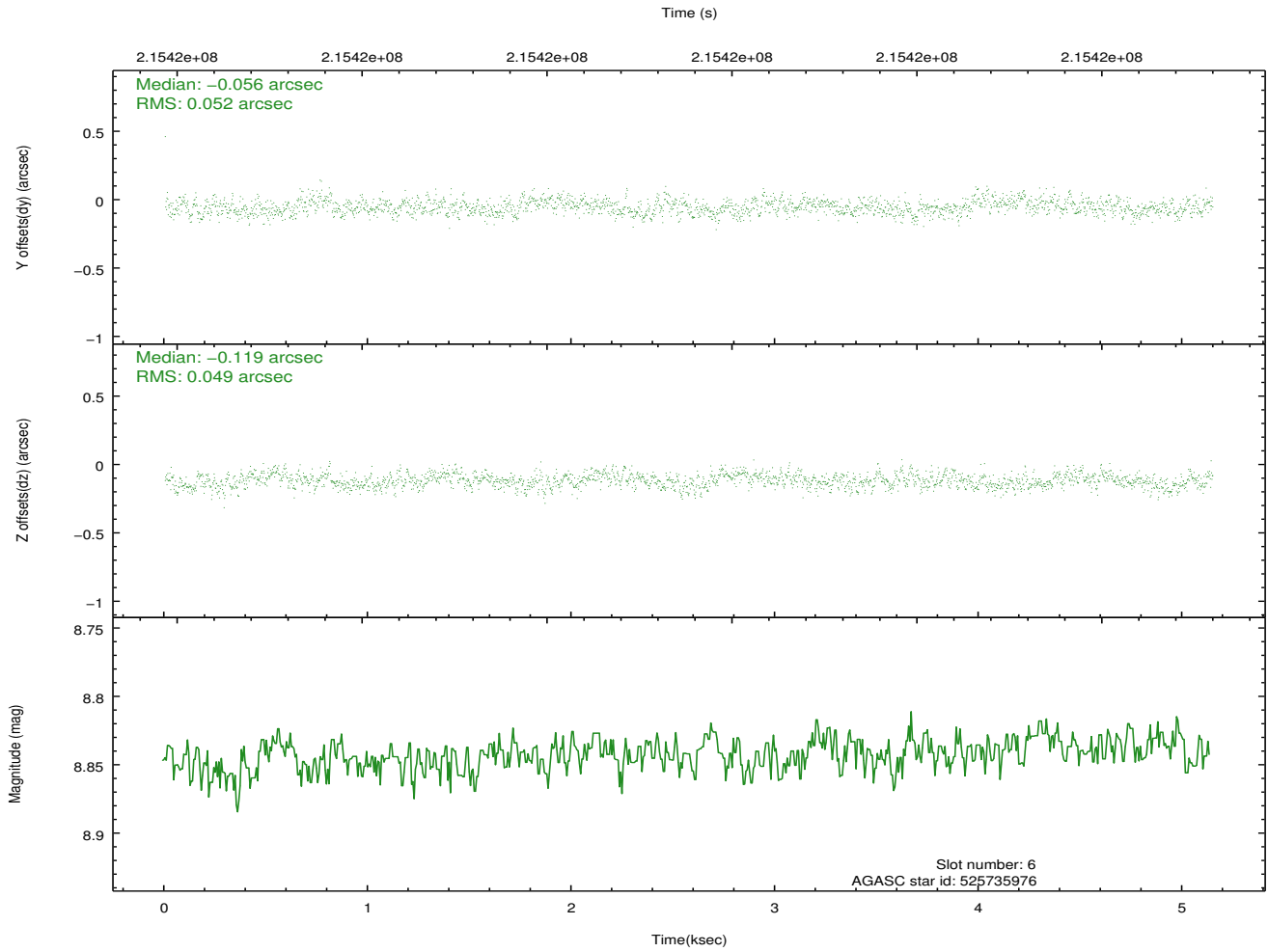
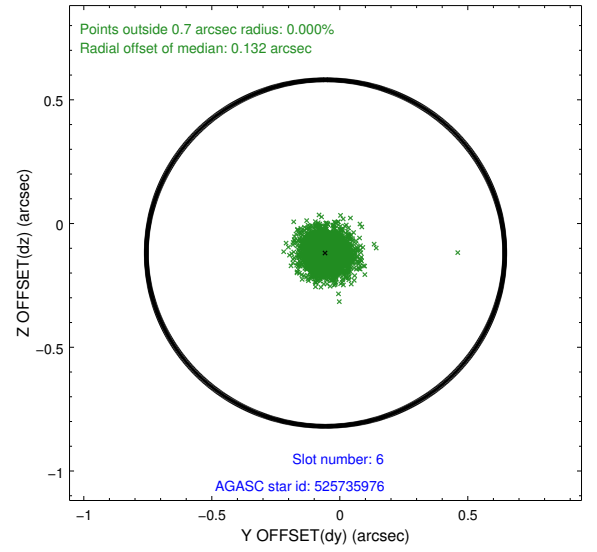
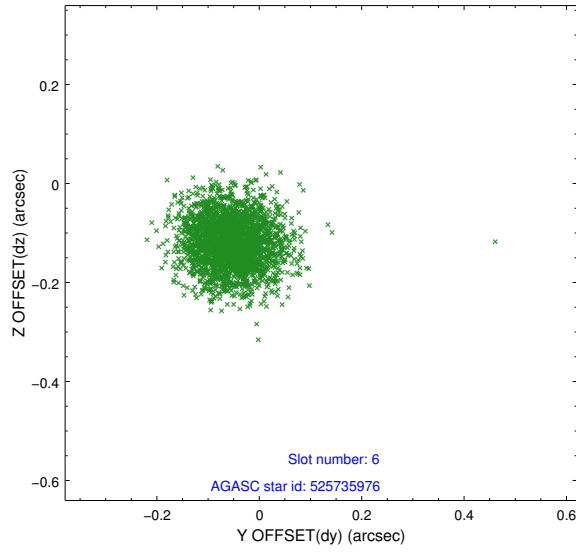
## 2.4.2 Slot 4



### 2.4.3 Slot 5

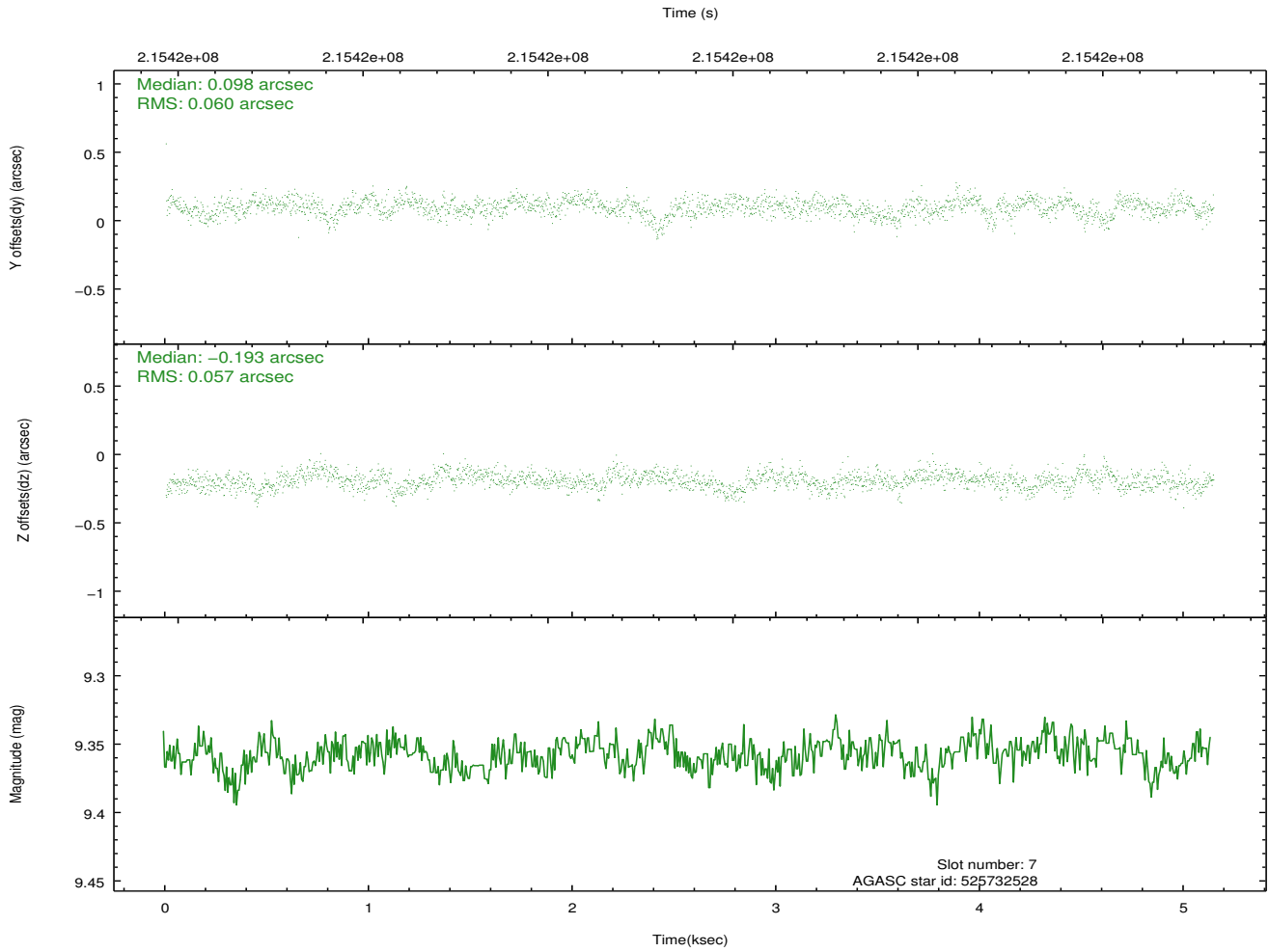
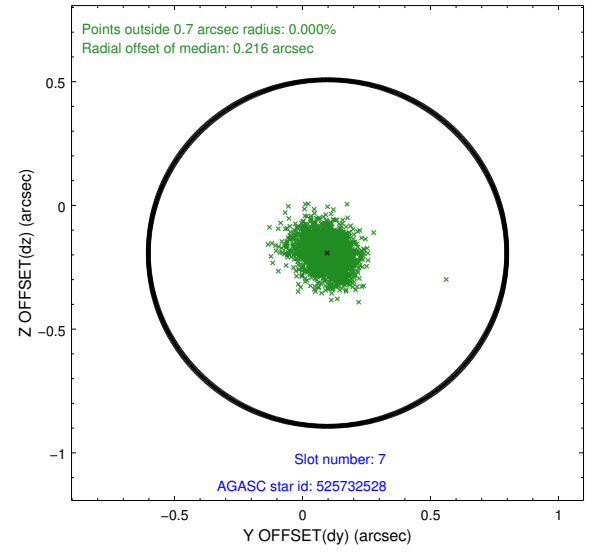
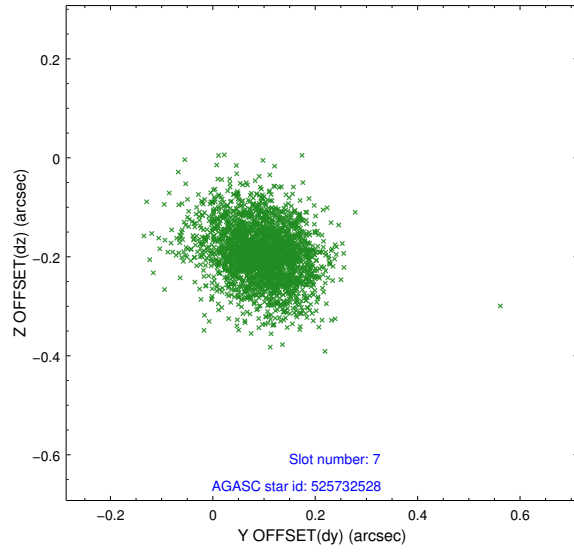


## 2.4.4 Slot 6



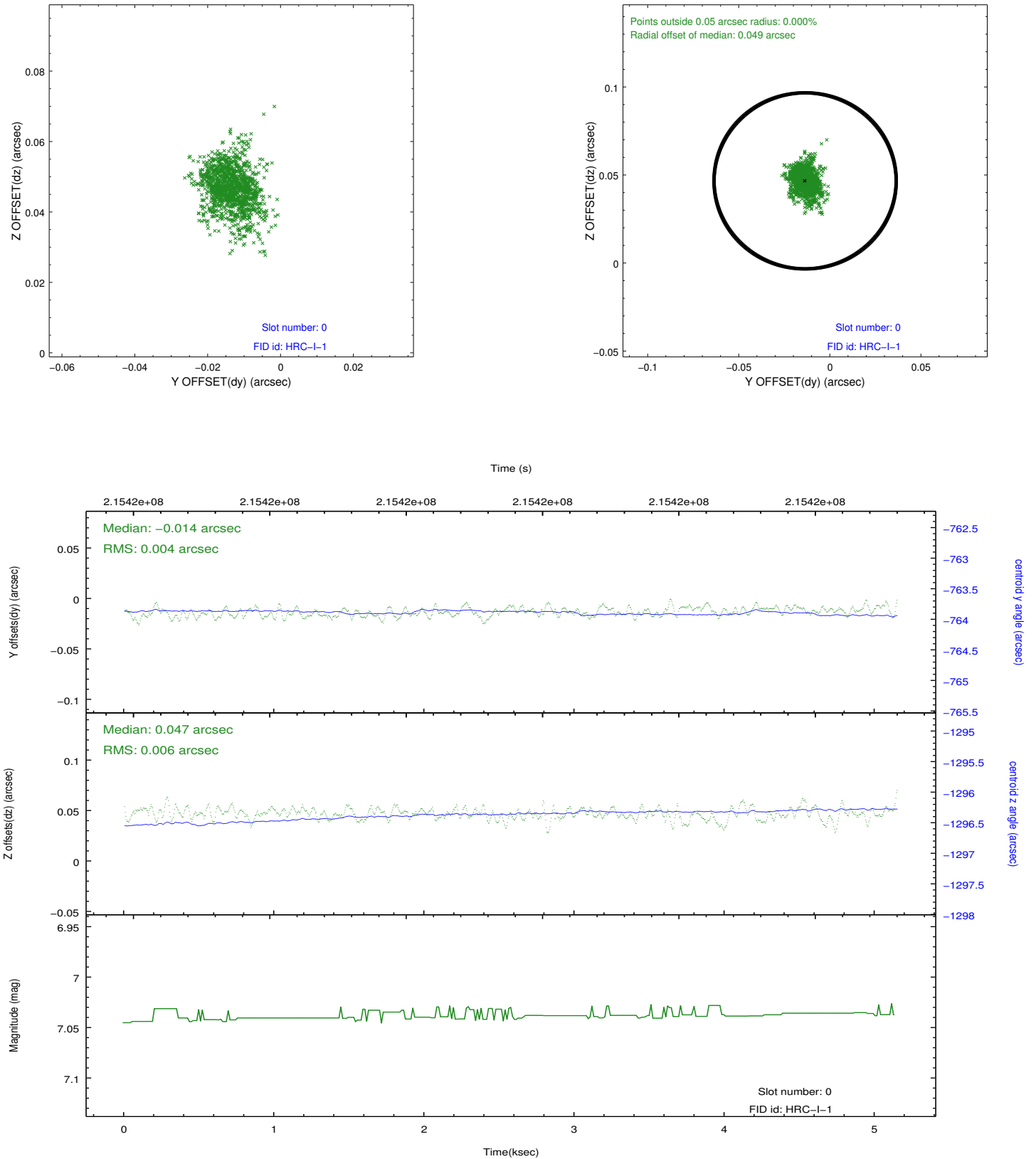


## 2.4.5 Slot 7

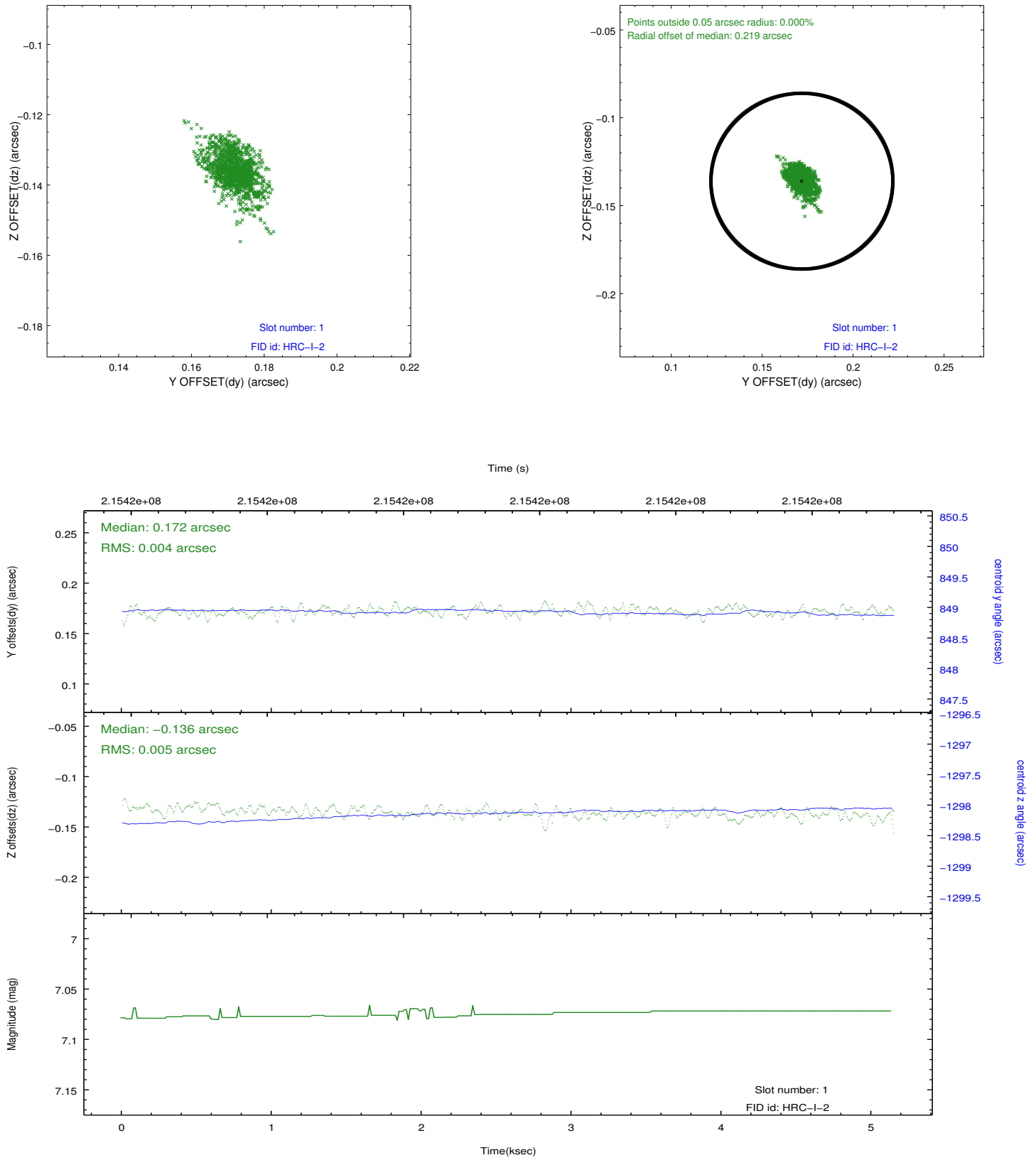


## 2.5 FID Slots

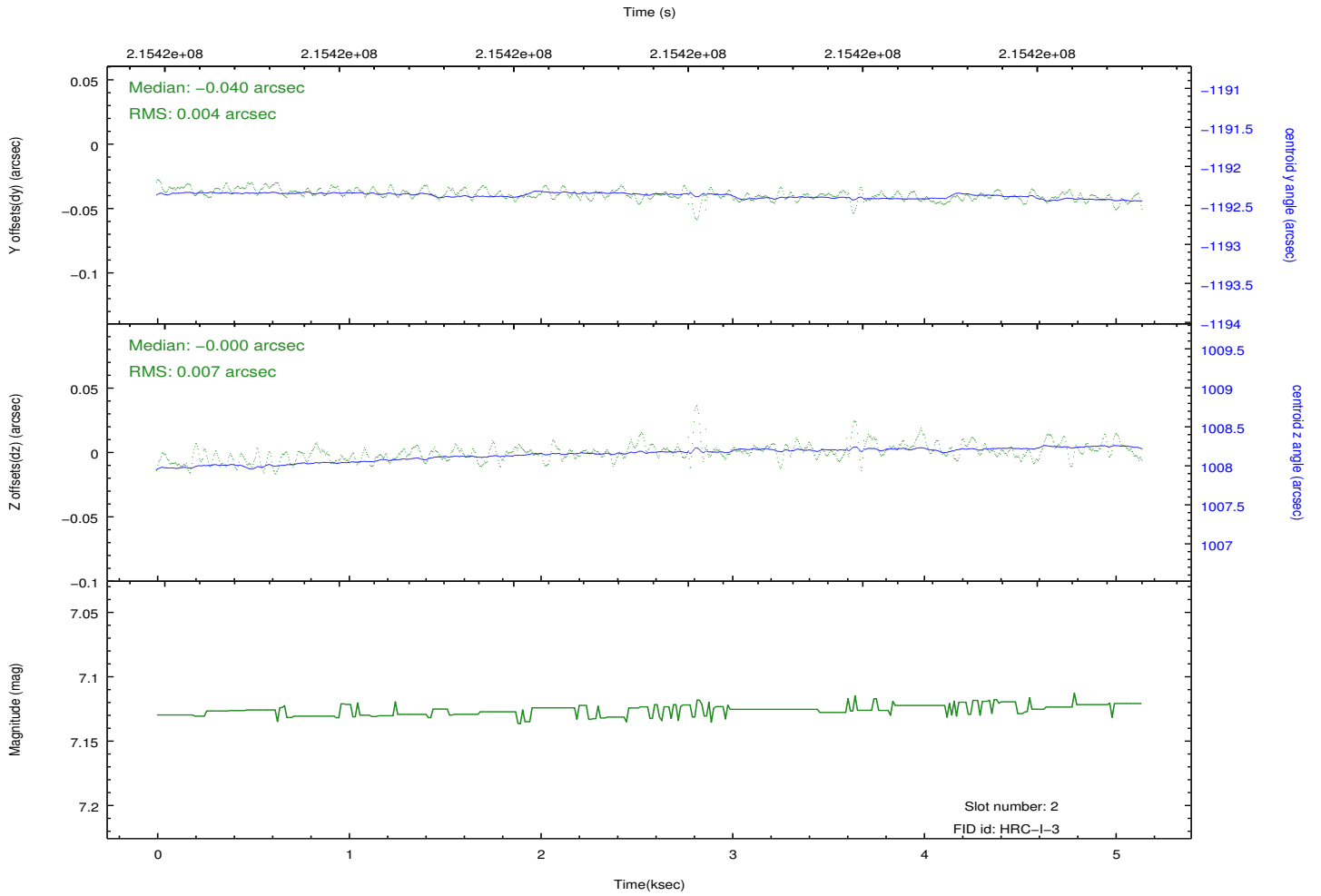
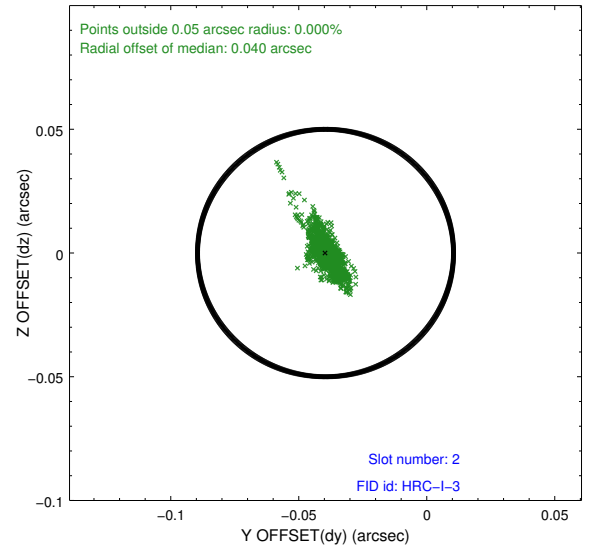
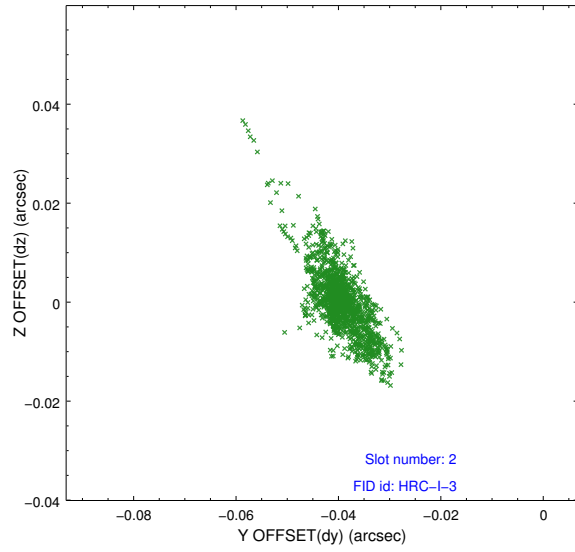
### 2.5.1 Slot 0



## 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)	2012.12.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.144

### A.2 Comments

Window preference met.