

# V&V Reference Report

## L2 ASCDS Version : 8.4.3

Observation 12920 - L2 Version 3  
Chandra X-Ray Center

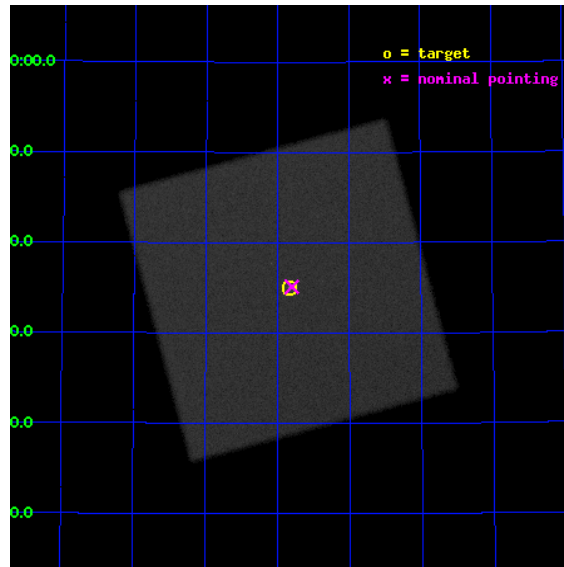
L2 Processing Date : Jul 27 2012

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# 1 Front

seq_num	900953	Sequence number
obs_id	12920	Observation id
title	The differing environments of dark gamma-ray bursts	Proposal title
observer	Dr Andrew Levan	Principal investigator
object	GRB110328A	Source name
ra_targ	251.207958	Observer's specified target RA [deg]
dec_targ	57.5835	Observer's specified target Dec [deg]
ra_nom	251.20010577361	Nominal RA [deg]
dec_nom	57.58552069487	Nominal Dec [deg]
roll_nom	119.88392927939	Nominal Roll [deg]
revision	3	Processing version of data
ontime	15478.782052398	[s]
livetime	15327.602042199	Ontime multiplied by DTCOR
l2events	1071209	Number of level 2 events

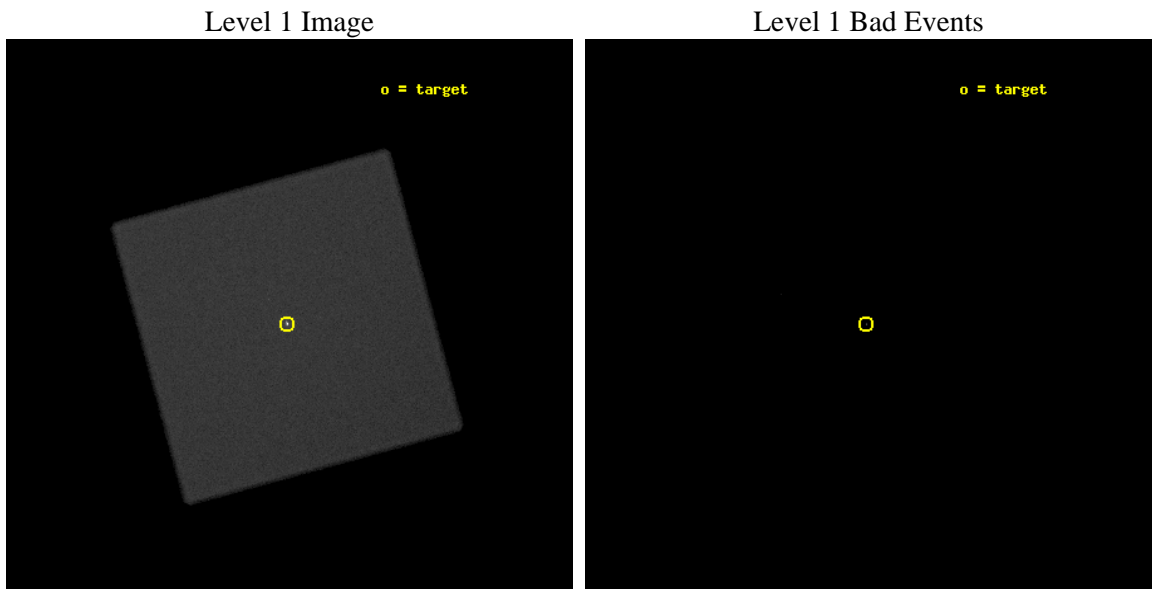




## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



### 2.1.2 Parameters

obi_num	0	Obi number	sched_exp_time	15300.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	15478.782052398	[s]
caldbver	4.5.1	&#160	l1events	1560481	Number of level 1 events
date	2012-07-27T23:19:43	Date and time of file creation			
revision	3	Processing version of data			

### 2.1.3 Events

#### Level 1 Events

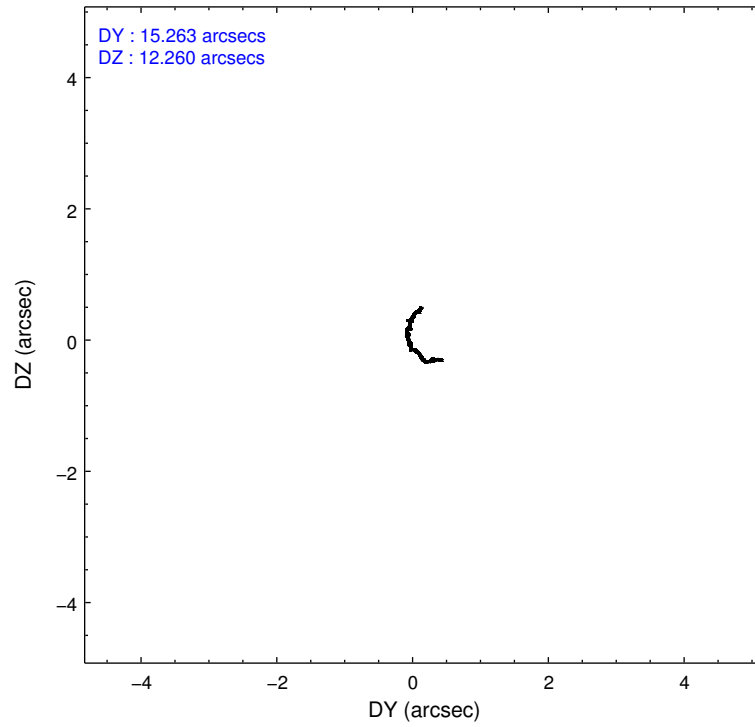
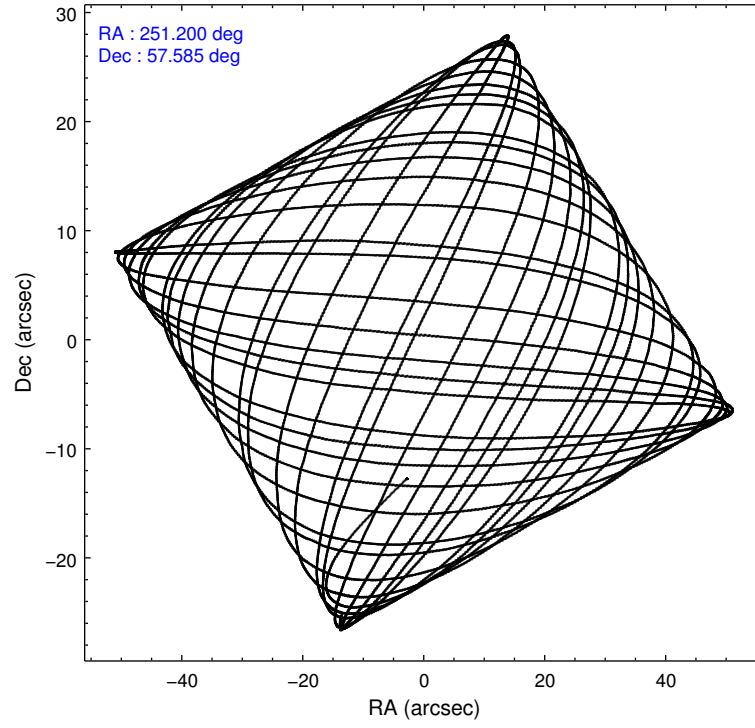
	<b>segment 0</b>
level 1 events	1560481
rejected events	76181
rejected %	4%

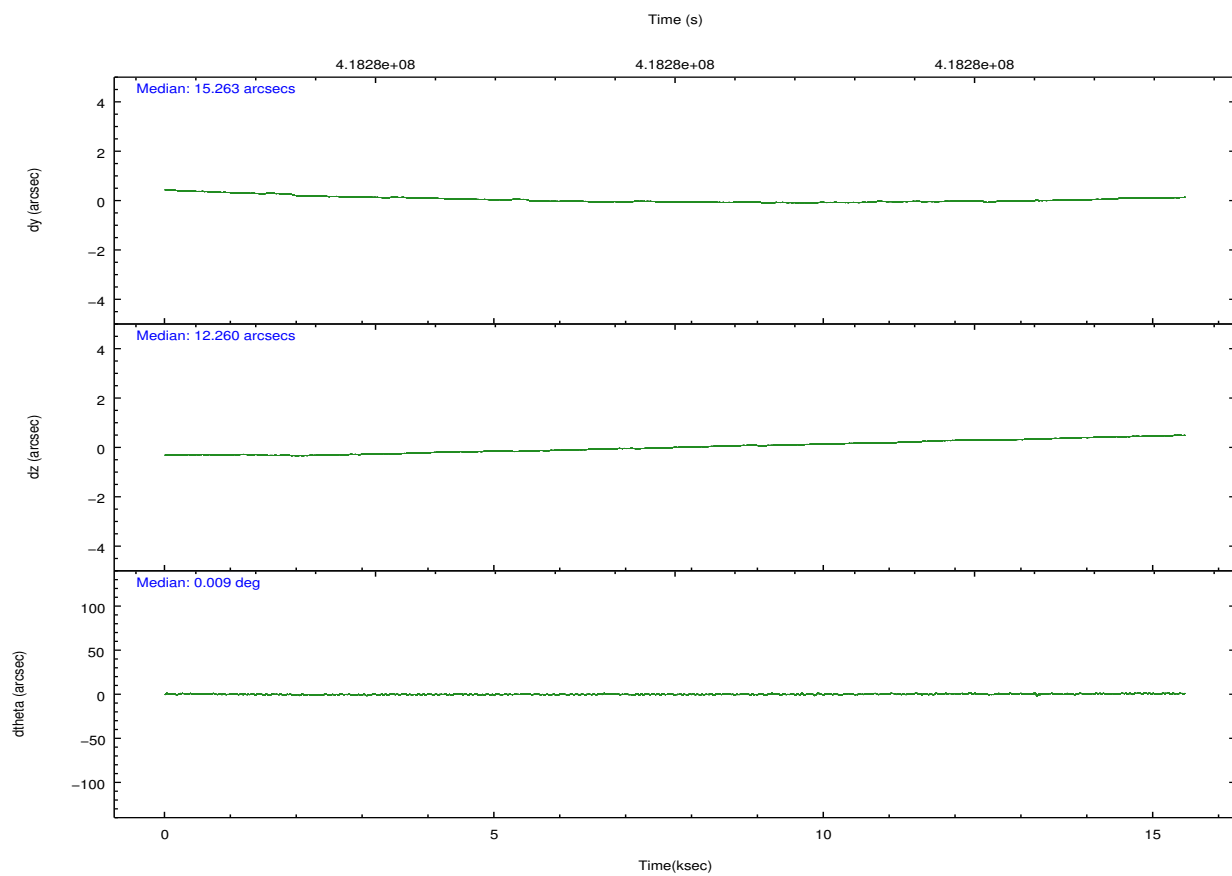
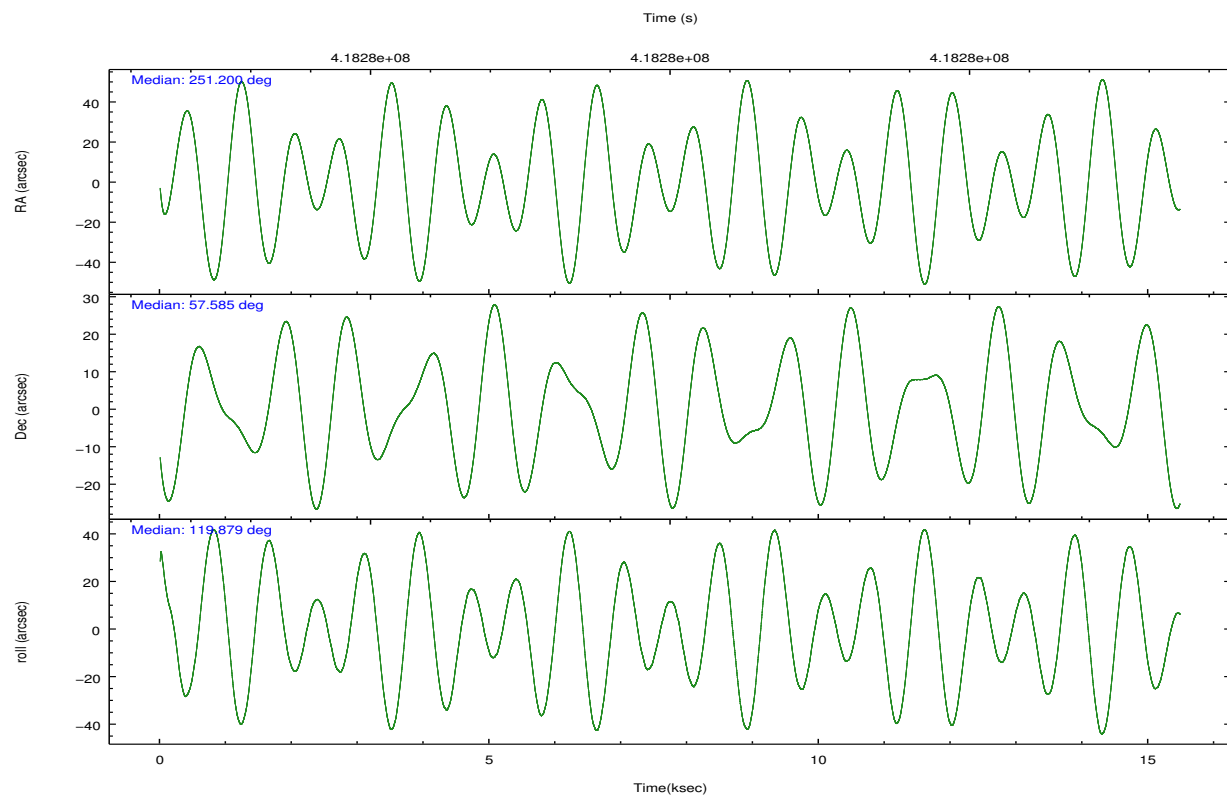
## 2.2 Compared Parameters

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	251.244547	251.2001057736133
[deg] Pointing Dec	57.572486	57.58552069487043
[deg] Pointing Roll	119.941885	119.8839292793946
[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)	418272447.184000	418271480.3889
Observation start date	2011-04-04T02:46:21	2011-04-04T02:31:20
[s] Observation end time (MET)	418287747.184000	418288256.05227
Observation end date	2011-04-04T07:01:21	2011-04-04T07:10:56

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

## 2.3 Aspect



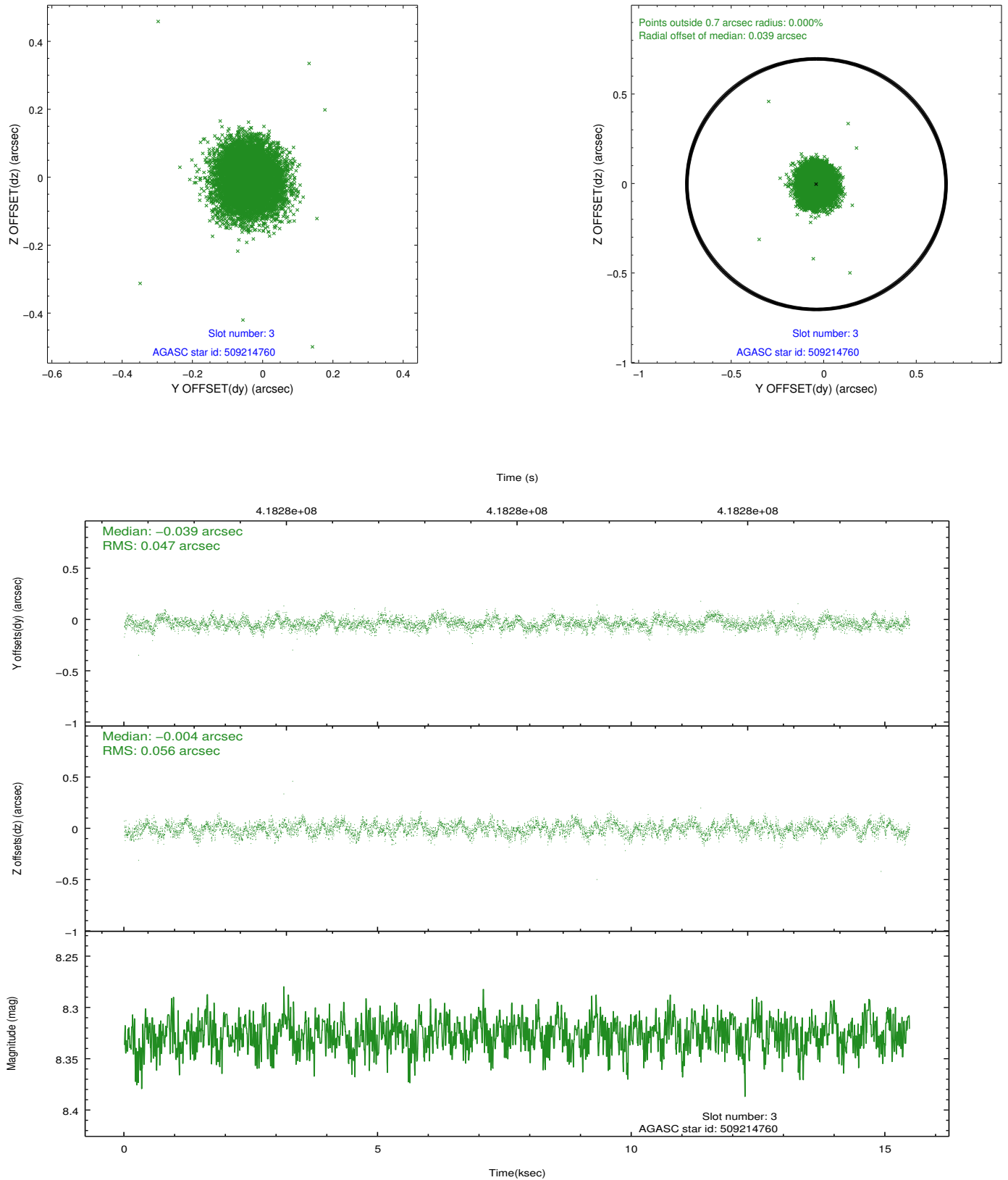


### Slot Statistics

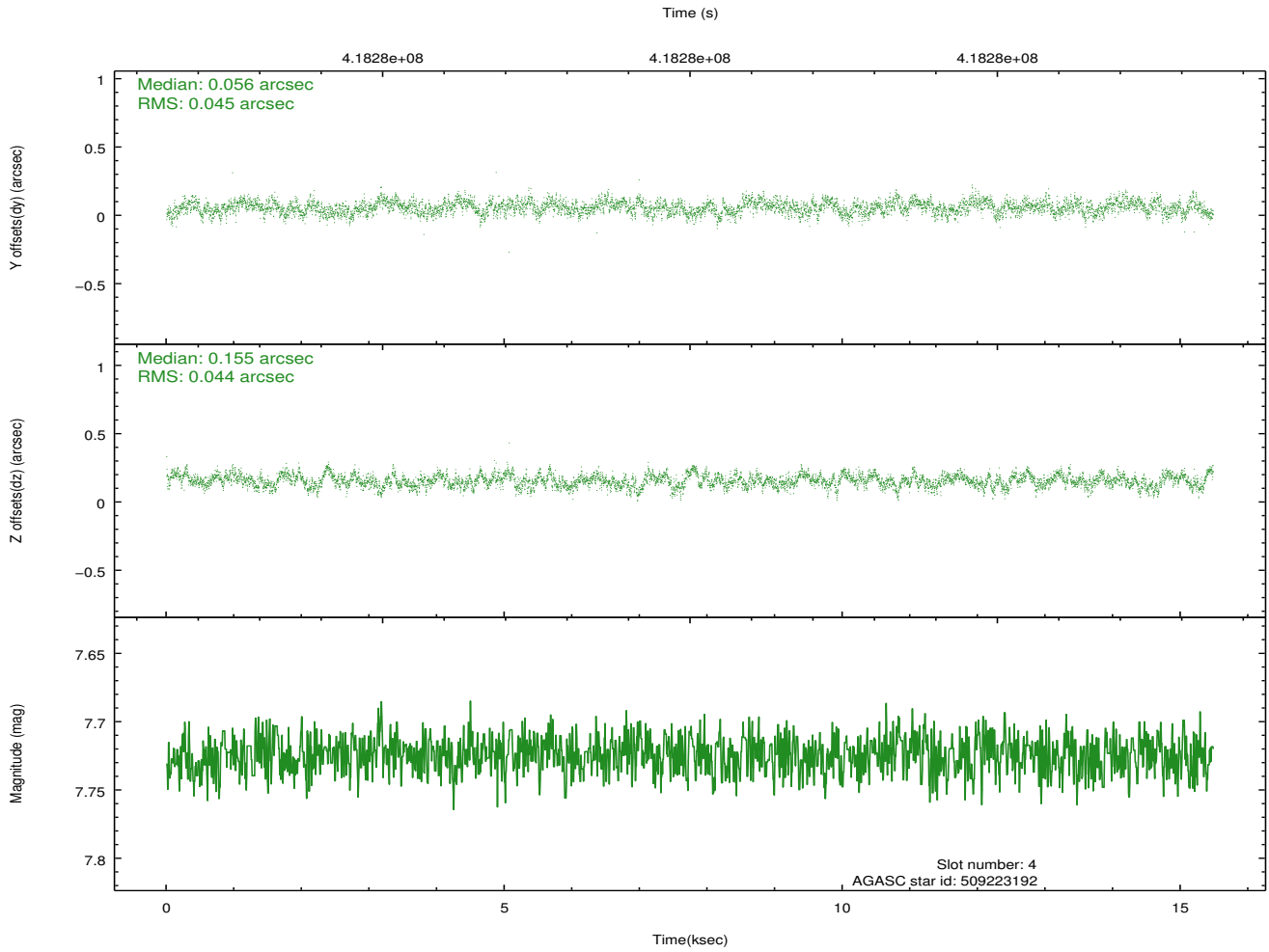
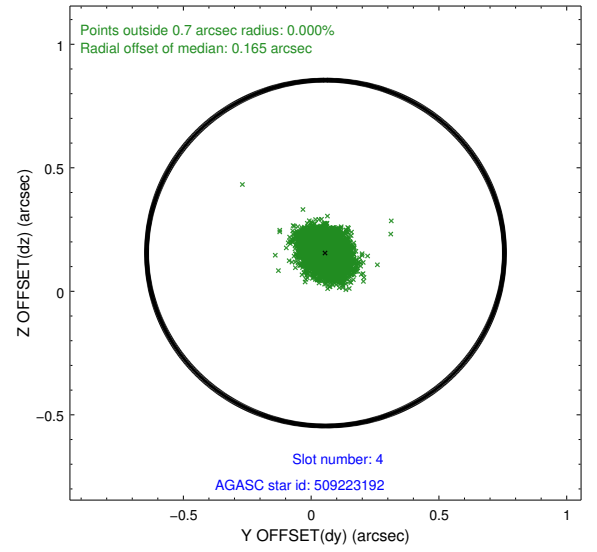
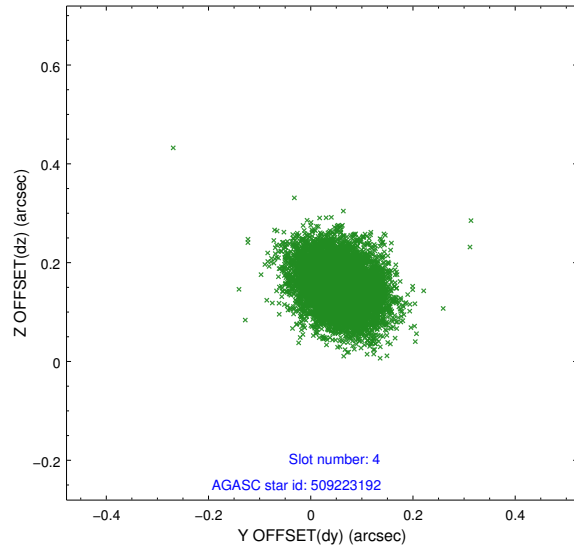
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-I-2	6.97	3776	0.124	-0.102	0.011	0.035	0.000000	0.000000	841.62	-1301.96
1	FID	HRC-I-3	7.03	3776	-0.111	0.062	0.010	0.030	0.000000	0.000000	-1199.49	1004.00
2	FID	HRC-I-4	6.95	3776	0.107	-0.046	0.009	0.014	0.000000	0.000000	1271.46	1002.10
3	GUIDE	509214760	8.33	7549	-0.039	-0.004	0.078	0.124	250.589992	57.556199	585.73	1121.71
4	GUIDE	509223192	7.72	7552	0.056	0.155	0.067	0.108	251.320493	58.085113	1527.74	-1045.95
5	BAD	509225640	5.19	4720	-0.200	-0.021	0.060	0.100	252.069297	57.813712	-27.47	-1808.57
6	GUIDE	509227784	9.23	7546	0.109	-0.127	0.110	0.174	250.982124	57.635413	450.21	324.38
7	GUIDE	509228136	9.26	7543	0.000	-0.012	0.099	0.160	249.958671	57.735608	1762.44	1836.86

## 2.4 Star Slots

### 2.4.1 Slot 3

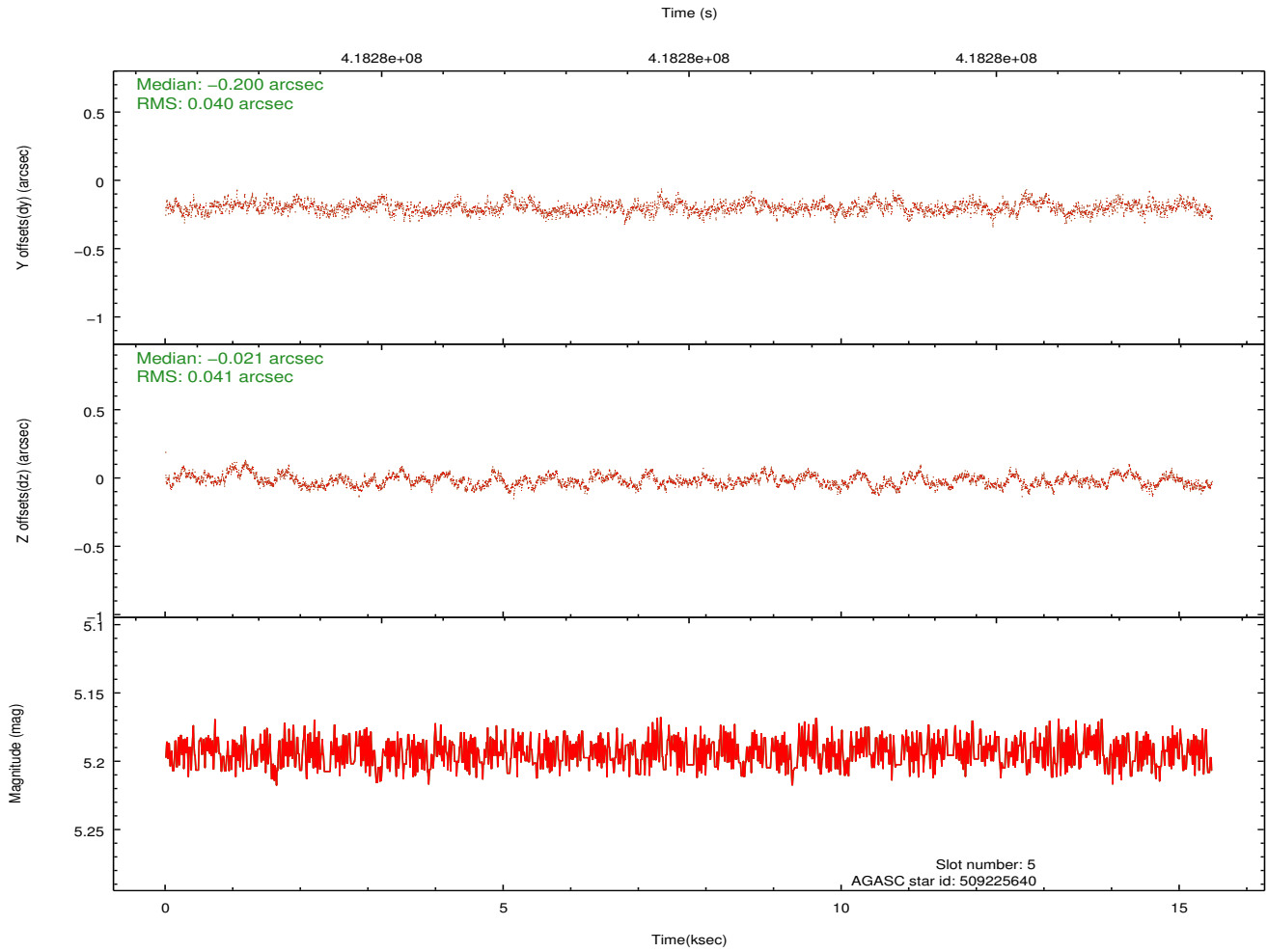
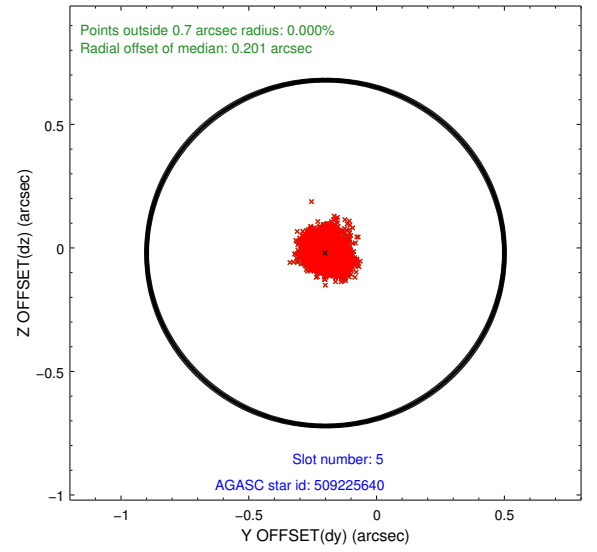
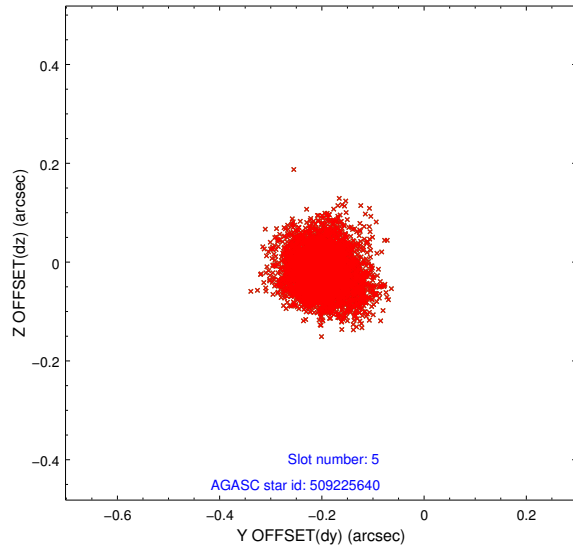


## 2.4.2 Slot 4

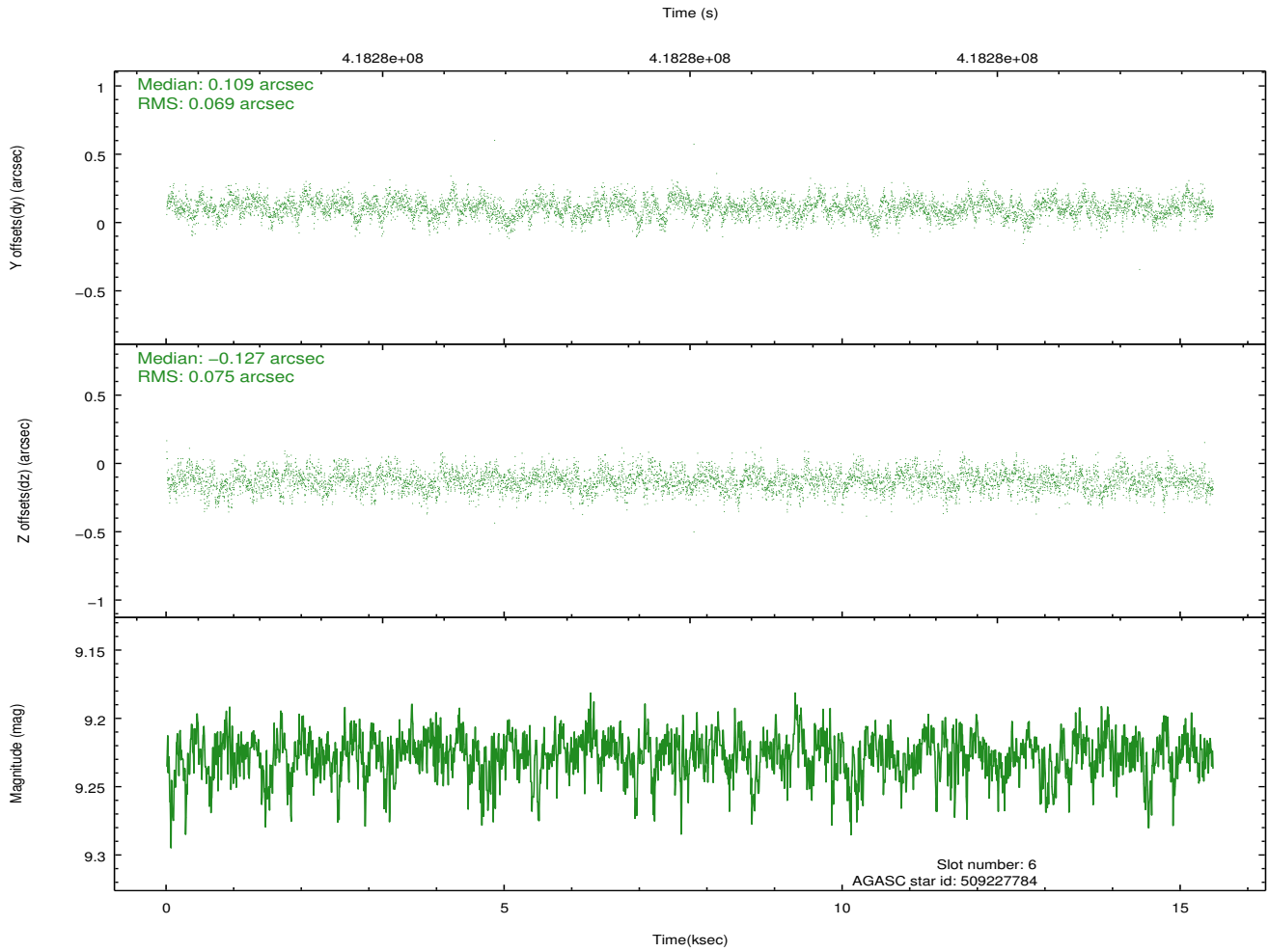
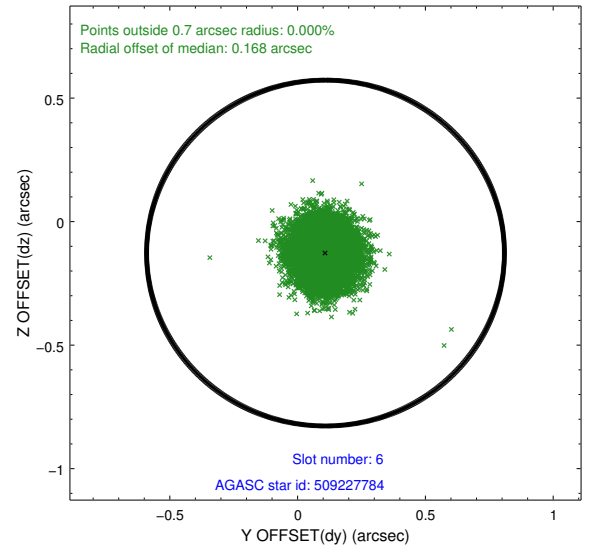
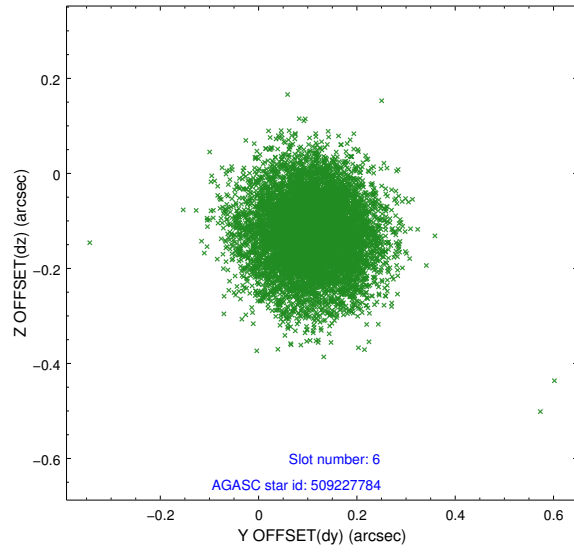




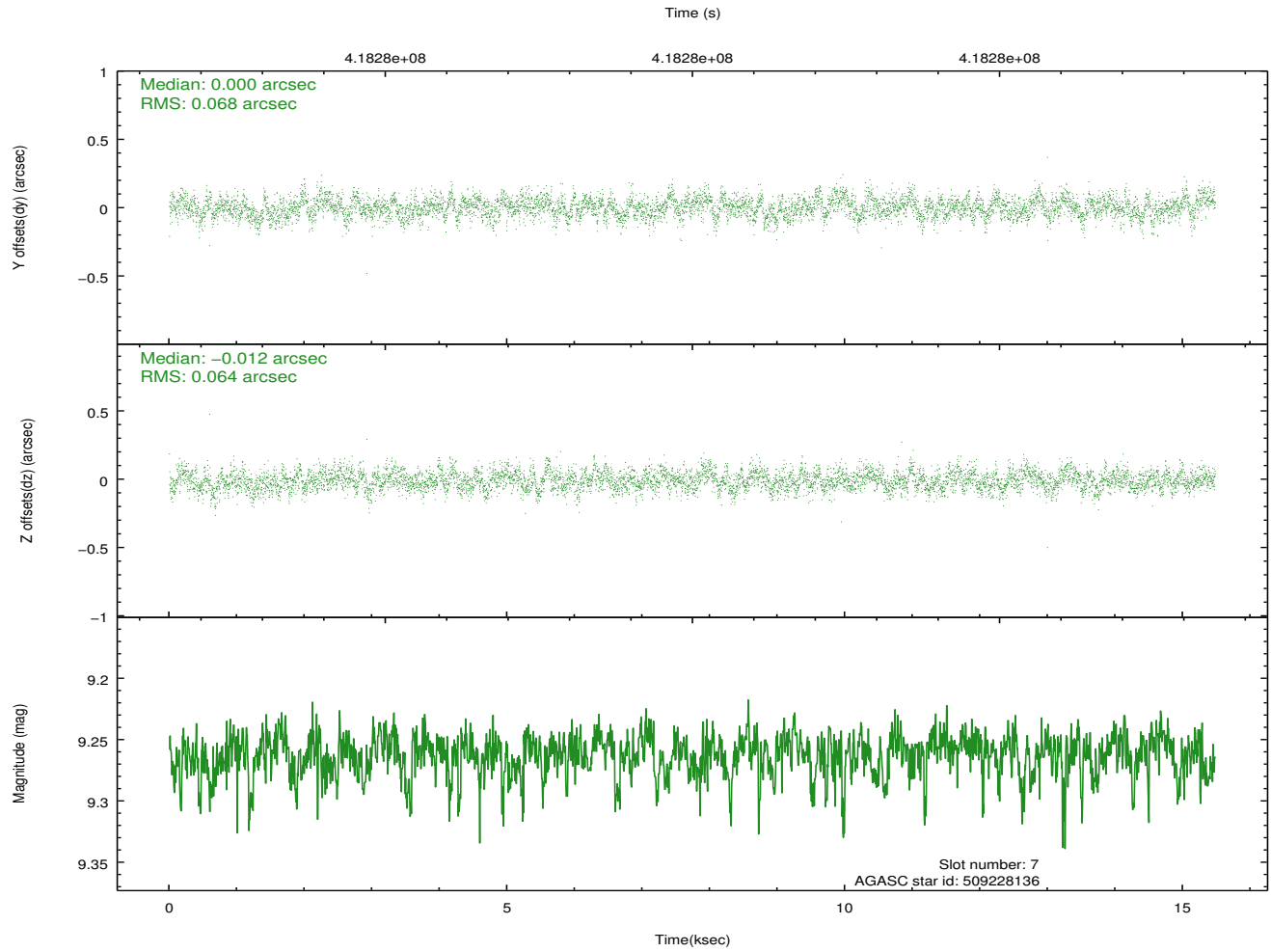
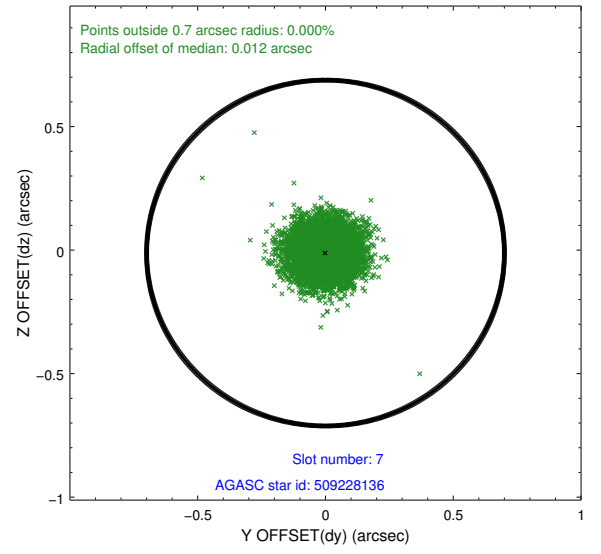
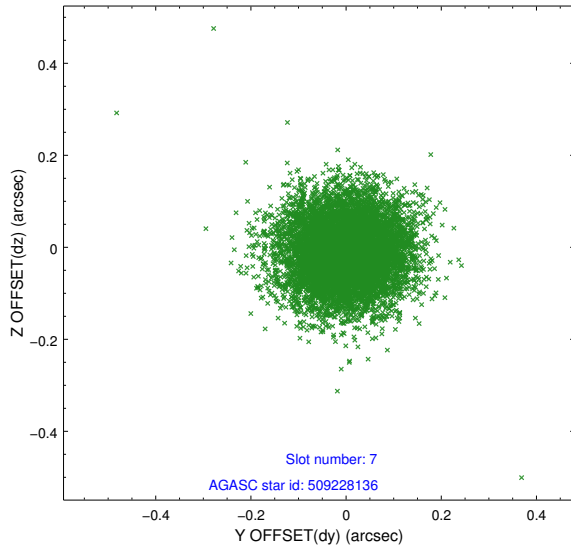
### 2.4.3 Slot 5



## 2.4.4 Slot 6

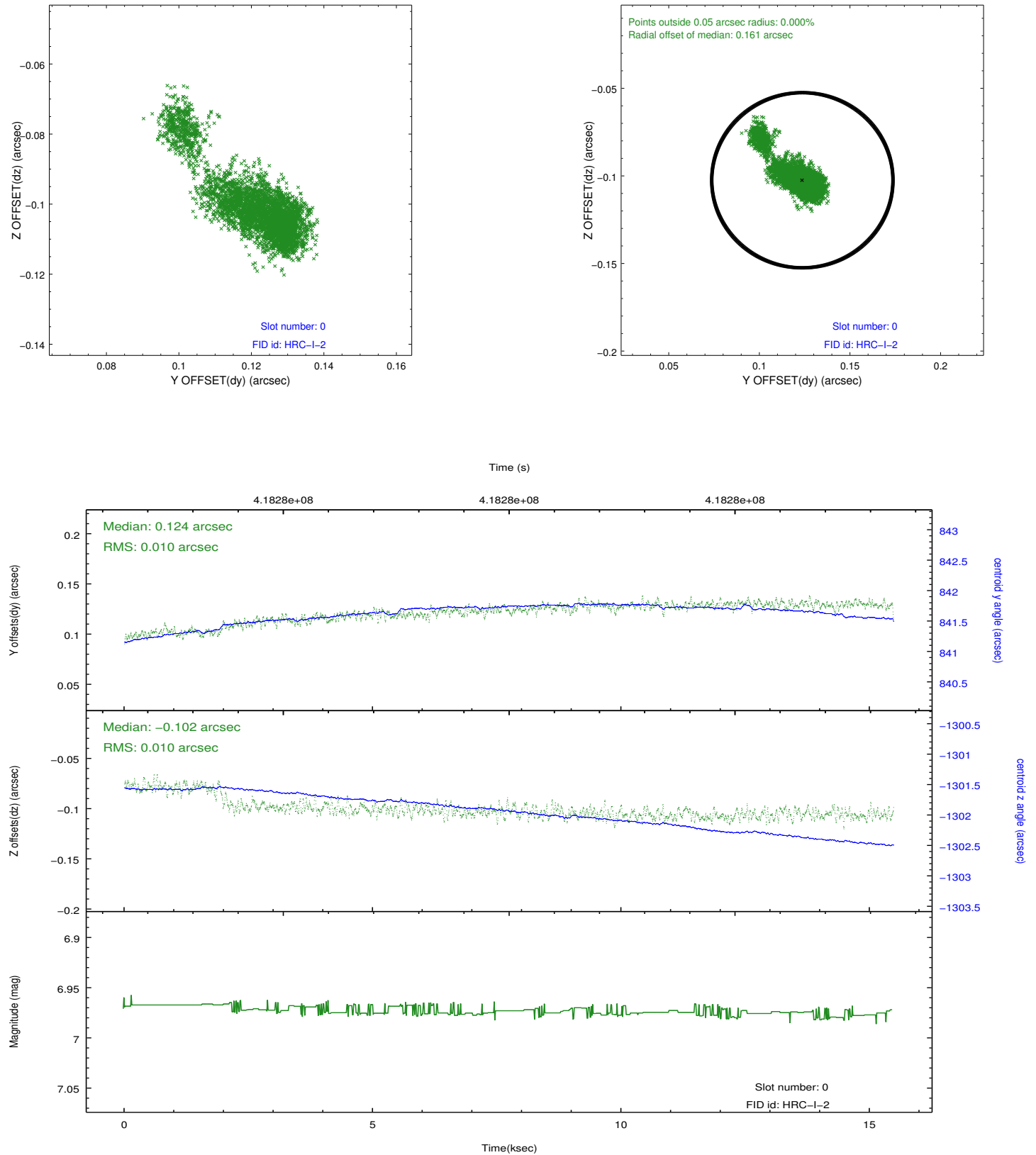


## 2.4.5 Slot 7

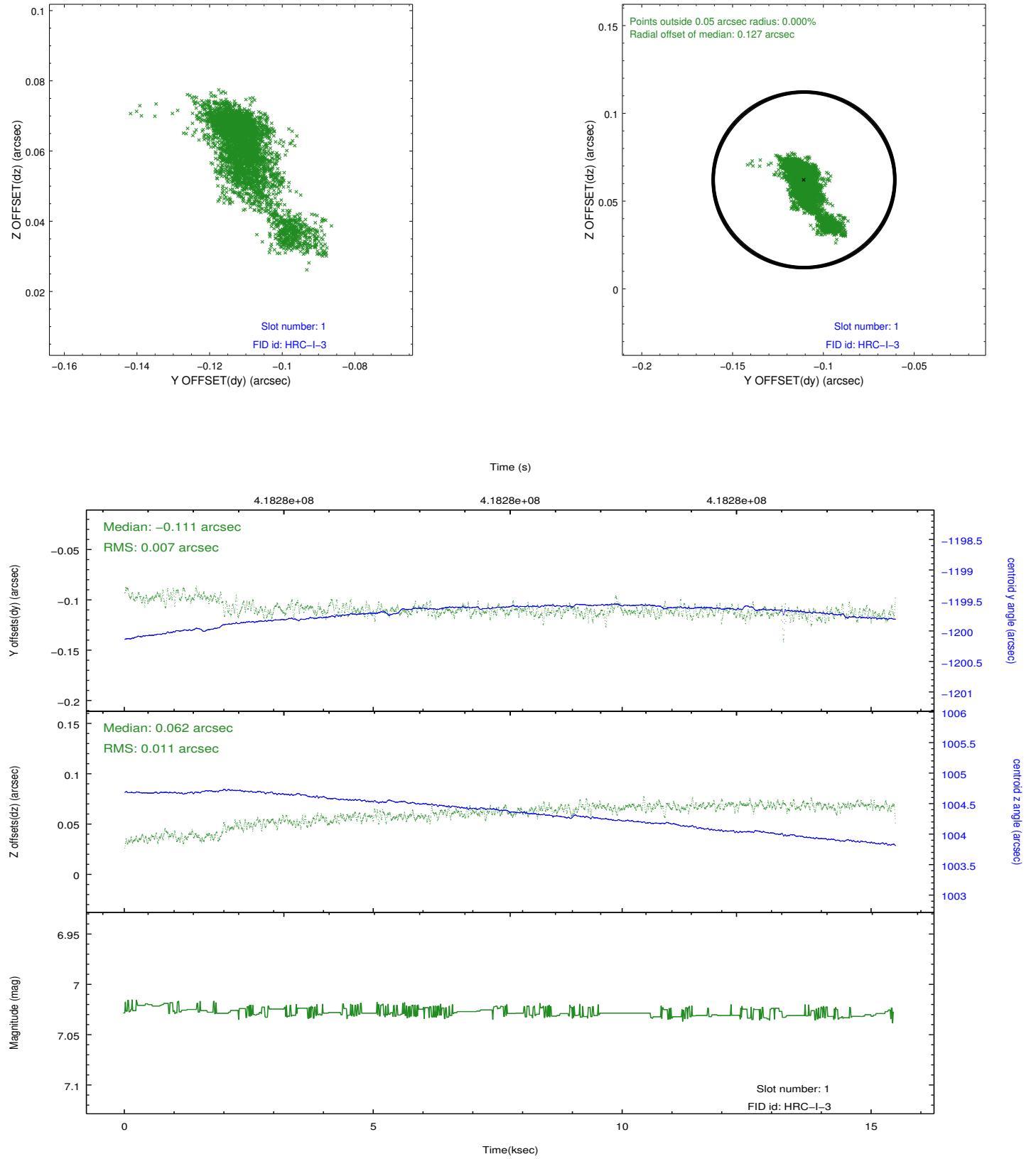


## 2.5 FID Slots

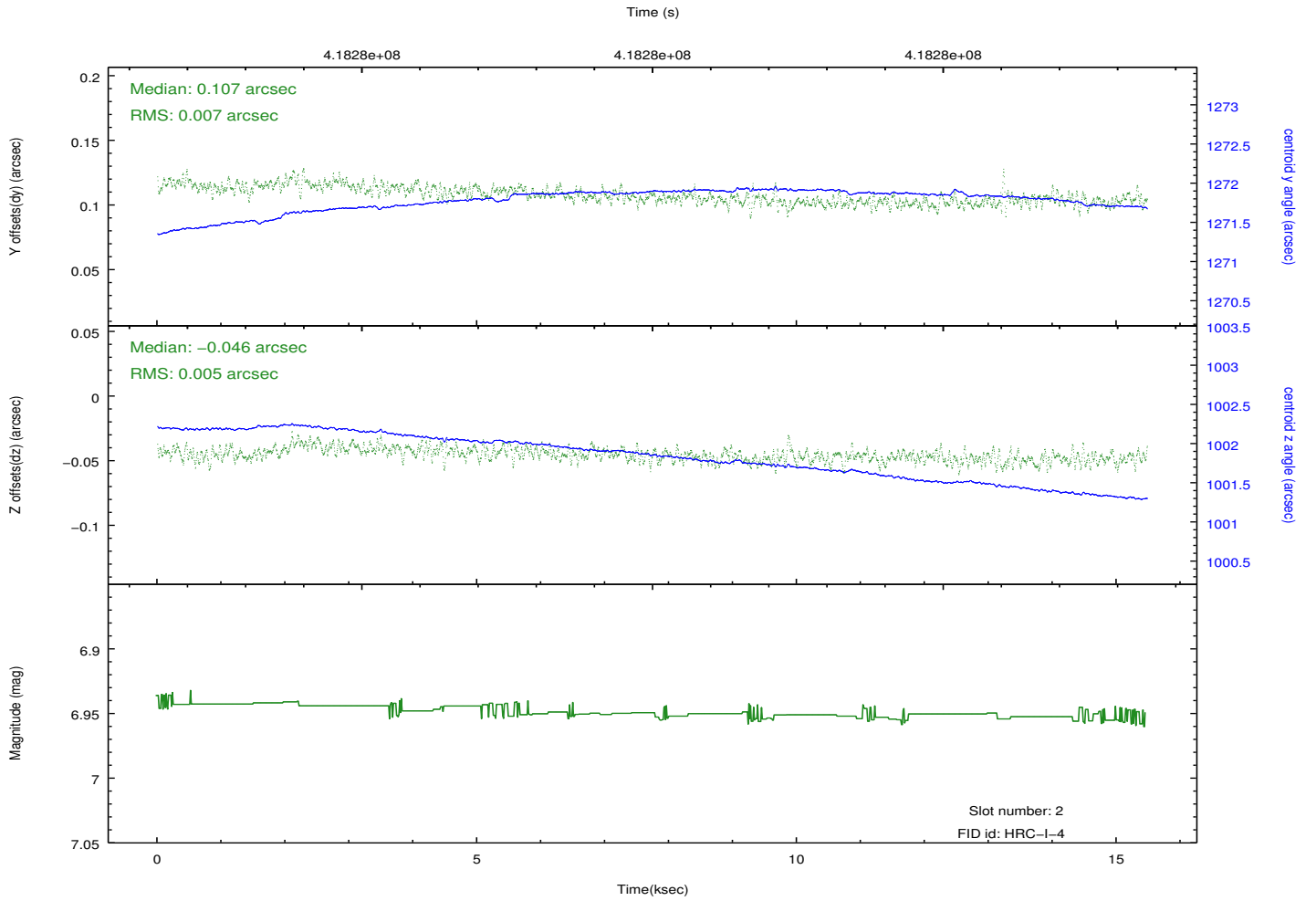
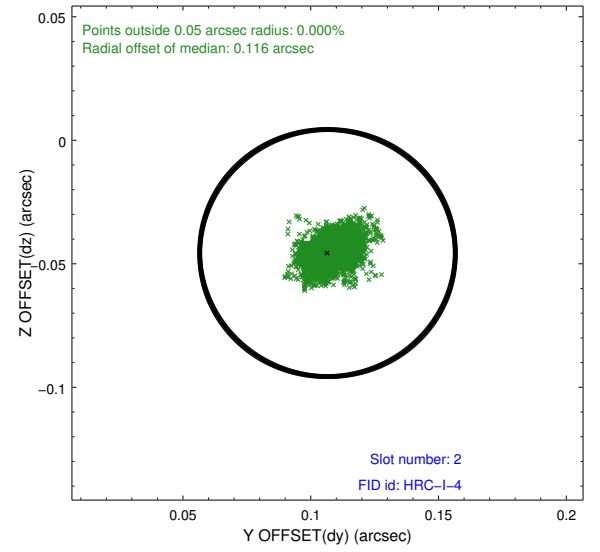
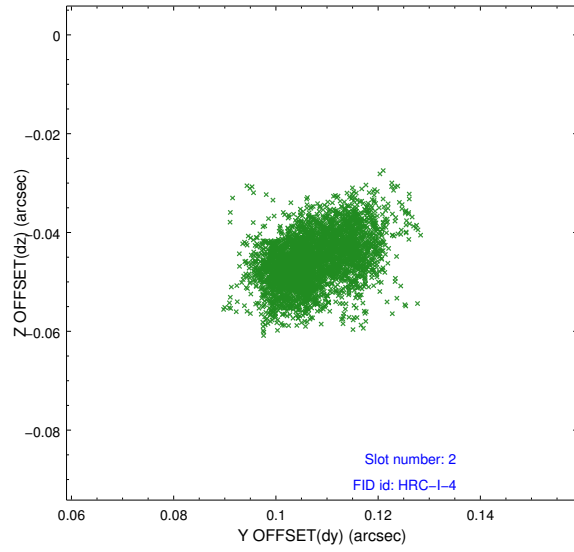
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



# A Summary

## A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.08.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	15.478525801897

## A.2 Comments

Joint proposal with HST.

An instrumental feature resembling a jet is present in Level 1, but not completely removed in Level 2. The jet-like feature can be seen in Level 2 event data in a north-northeast direction from the source. The jet-like feature is instrumental and caused by unreliable event positions due to such conditions as an odd charge-cloud distribution or tap signal saturation.