

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 2771 - L2 Version 3  
Chandra X-Ray Center

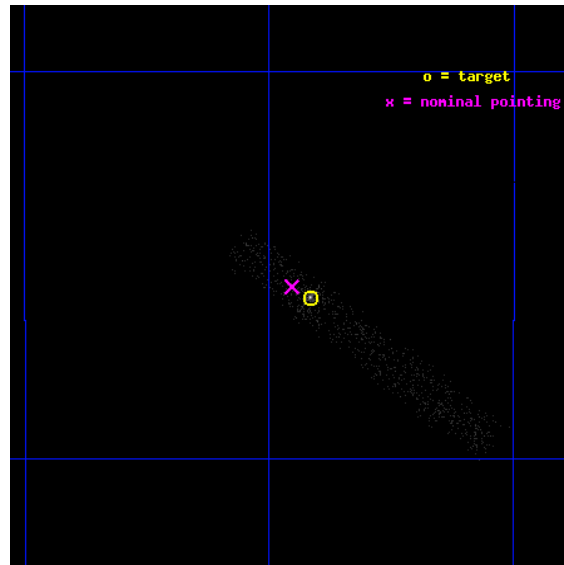
L2 Processing Date : Sep 28 2012

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# 1 Front

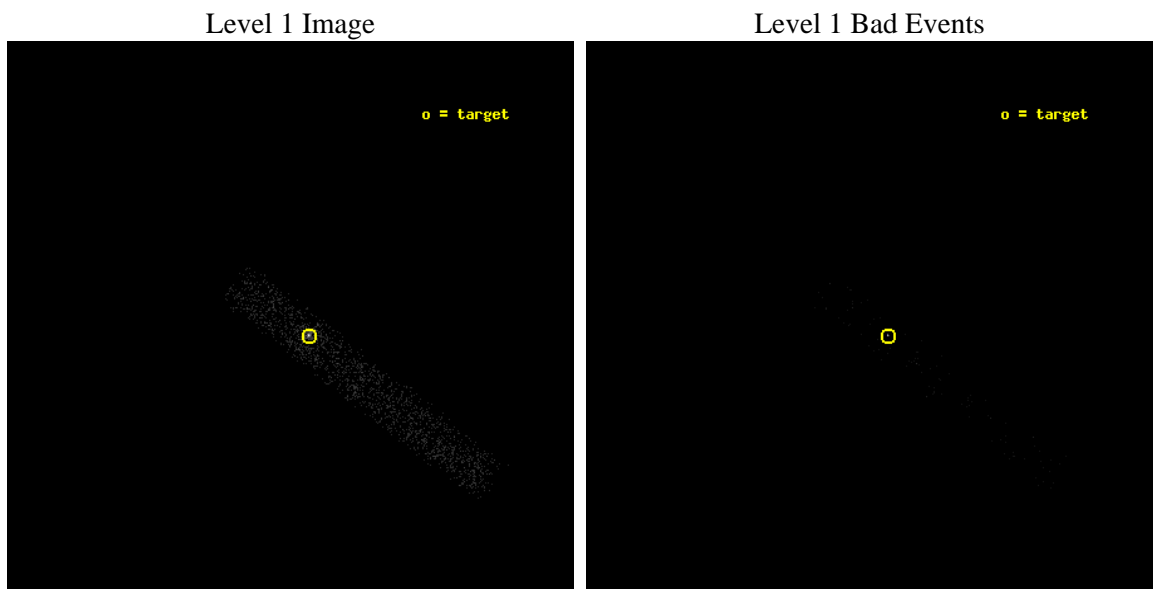
seq_num	500221	Sequence number
obs_id	2771	Observation id
title	IS THE NEARBY ISOLATED NEUTRON STAR RX J0720.4-3125 A MAGNETAR?	Pr
observer	Prof. Shrinivas Kulkarni	Principal investigator
object	RX J0720.4-3125	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	110.10375	Observer's specified target RA [deg]
dec_targ	-31.430806	Observer's specified target Dec [deg]
ra_nom	110.11352880237	Nominal RA [deg]
dec_nom	-31.426210321839	Nominal Dec [deg]
roll_nom	38.03477361412	Nominal Roll [deg]
revision	3	Processing version of data
ontime	1858.8000276983	Sum of GTIs [s]
livetime	1685.8335096121	Livetime [s]
ontime7	1858.8000276983	Sum of GTIs [s]
l2events	3316	Number of level 2 events



## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	1000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	1858.8000276983	Sum of GTIs [s]
caldsver	4.5.2	&#160	ontime7	1858.8000276983	Sum of GTIs [s]
date	2012-09-28T06:26:43	Date and time of file creation	l1events	4728	Number of level 1 events
revision	3	Processing version of data			

### 2.1.4 Events

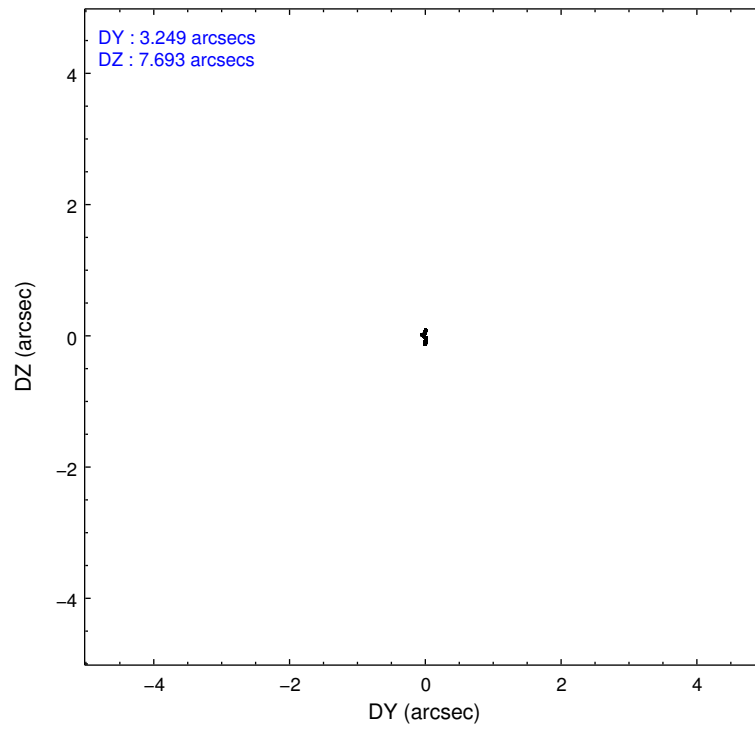
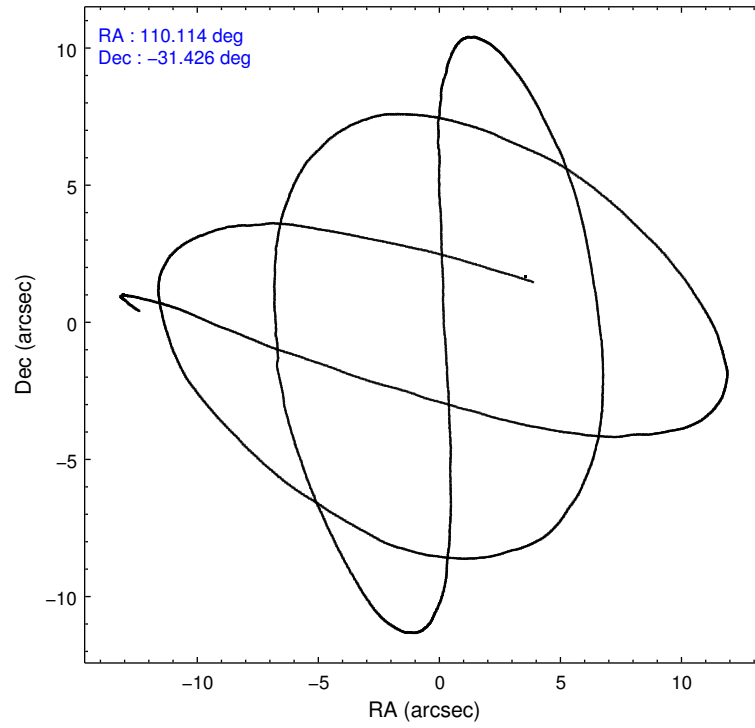
	<b>ccd 7</b>
level 1 events	4728
rejected events	1377
rejected %	29%

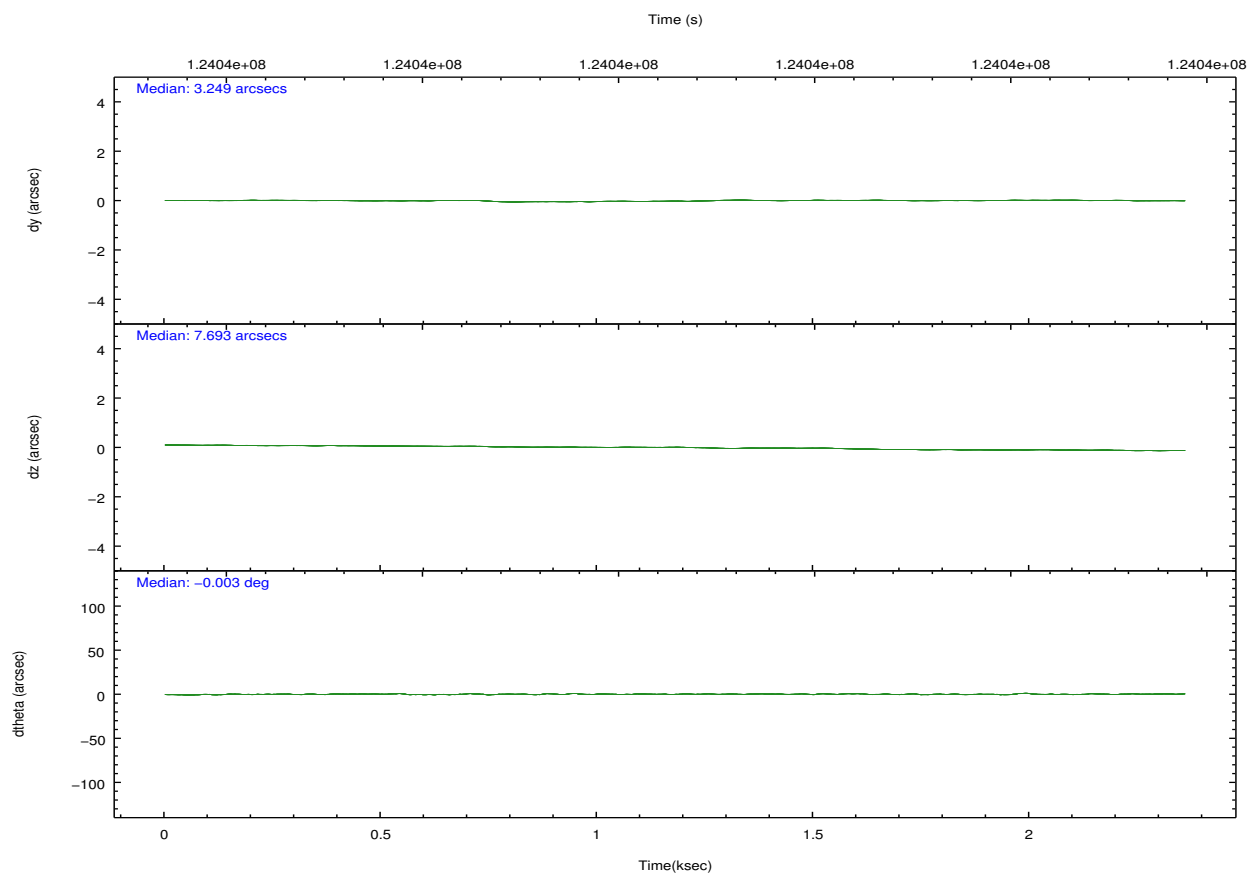
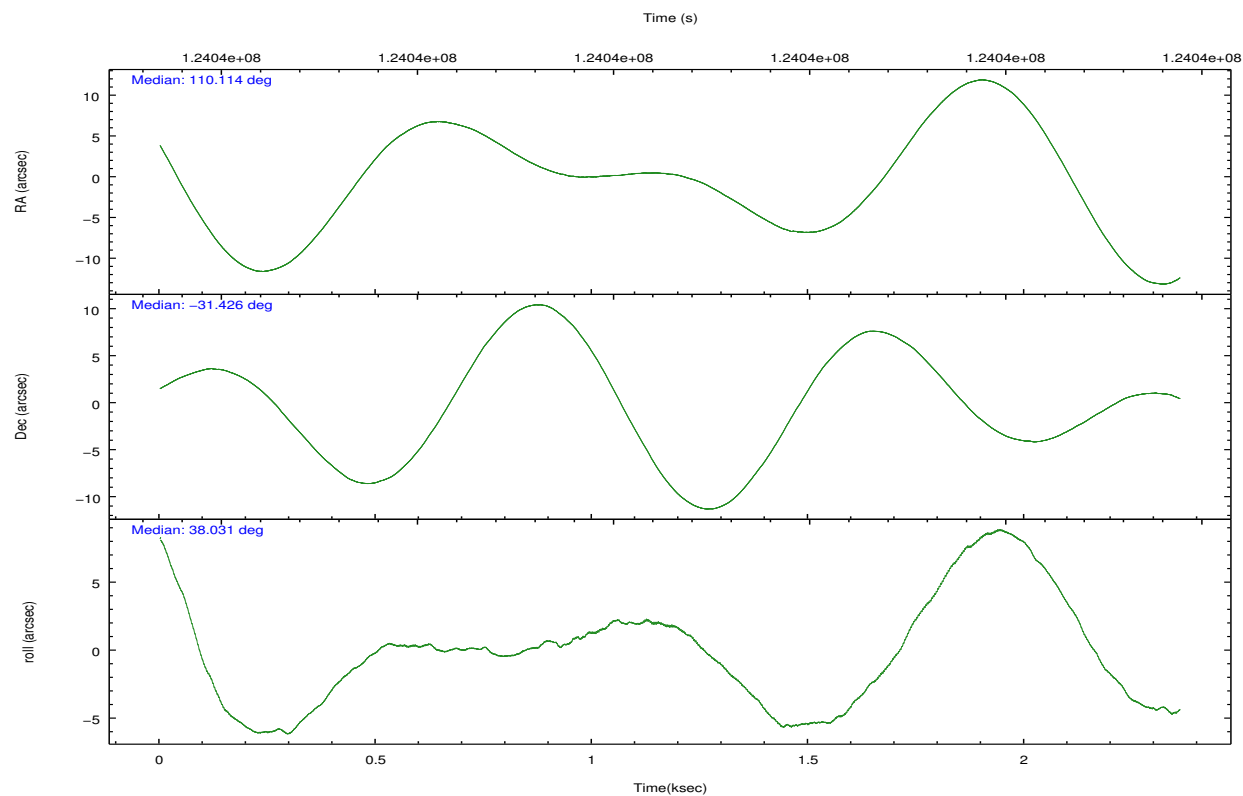
	<b>ccd 7</b>
grade 0 events	1240
	26%
grade 1 events	67
	1%
grade 2 events	692
	14%
grade 3 events	351
	7%
grade 4 events	337
	7%
grade 5 events	355
	7%
grade 6 events	731
	15%
grade 7 events	955
	20%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-7	ACIS-7	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	110.102228	110.1135288023657	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	-31.451663	-31.42621032183866	Subarray start row	115	115
[deg] Pointing Roll	37.872245	38.03477361411959	Subarray row count	128	128
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	0.4
[mm] SIM translation stage pos	-182.132523	-182.1370004450064			
[mm] SIM translation stage offset	-8	-7.995522138001405			
[s] Observation start time (MET)	124041825.184000	124040279.48657			
Observation start date	2001-12-06T16:02:41	2001-12-06T15:37:59			
[s] Observation end time (MET)	124042825.184000	124043139.74918			
Observation end date	2001-12-06T16:19:21	2001-12-06T16:25:39			
Read mode	TIMED	TIMED			

## 2.3 Aspect





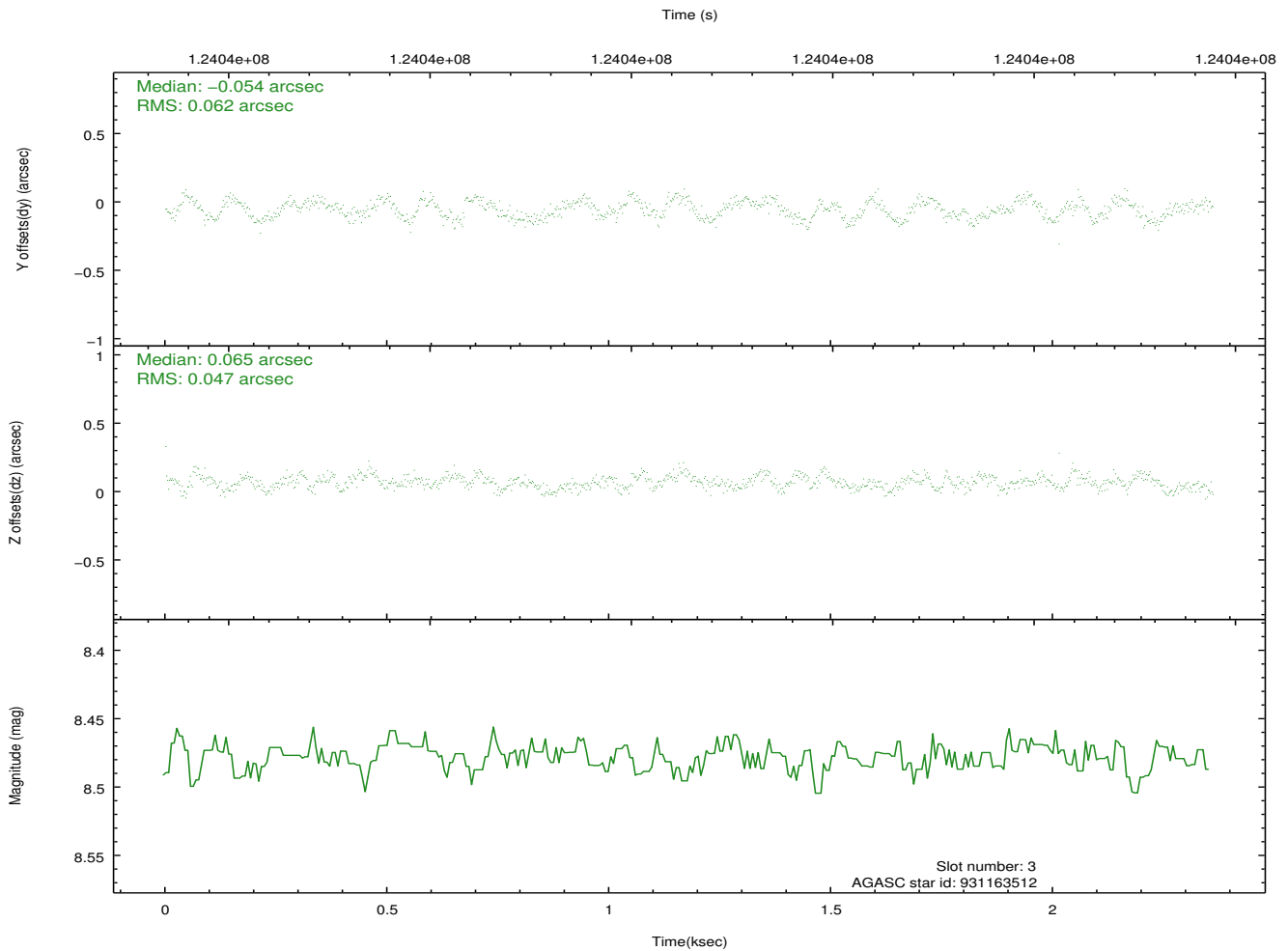
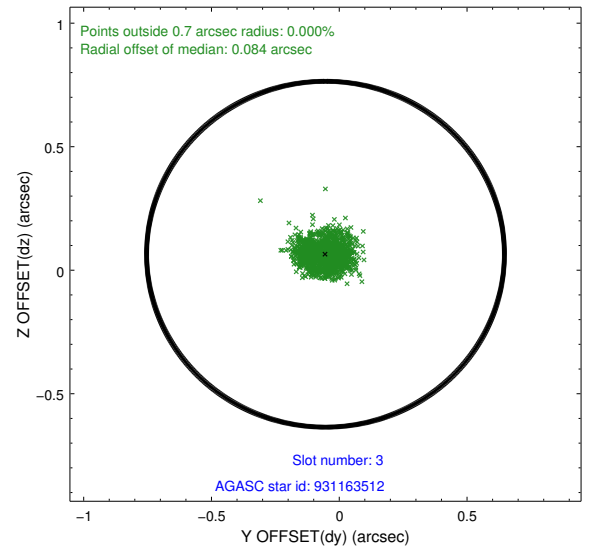
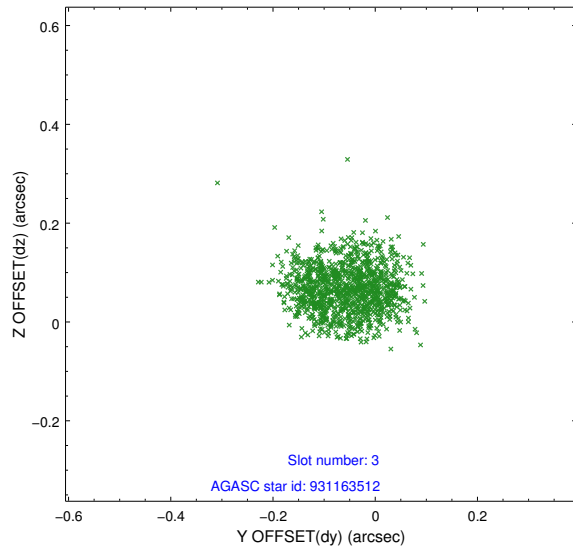
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.09	576	-0.024	-0.131	0.006	0.011	0.000000	0.000000	-755.37	-1893.69
1	FID	ACIS-S-4	7.17	576	0.034	0.047	0.005	0.011	0.000000	0.000000	2156.75	11.78
2	FID	ACIS-S-5	7.23	576	-0.041	0.092	0.006	0.010	0.000000	0.000000	-1804.66	8.69
3	GUIDE	931163512	8.48	1152	-0.054	0.065	0.084	0.124	110.894384	-31.299941	2253.99	-1071.98
4	GUIDE	931019296	8.66	1152	0.138	-0.080	0.059	0.095	109.471771	-31.694370	-2061.74	489.74
5	GUIDE	931160352	8.63	1151	-0.091	-0.093	0.061	0.094	110.268138	-30.864891	1699.86	1352.47
6	GUIDE	931005504	9.34	1150	0.173	-0.066	0.072	0.117	109.438314	-31.669733	-2089.33	624.70
7	GUIDE	931152840	9.14	1150	-0.165	0.172	0.090	0.150	110.877463	-31.769293	1164.52	-2365.67

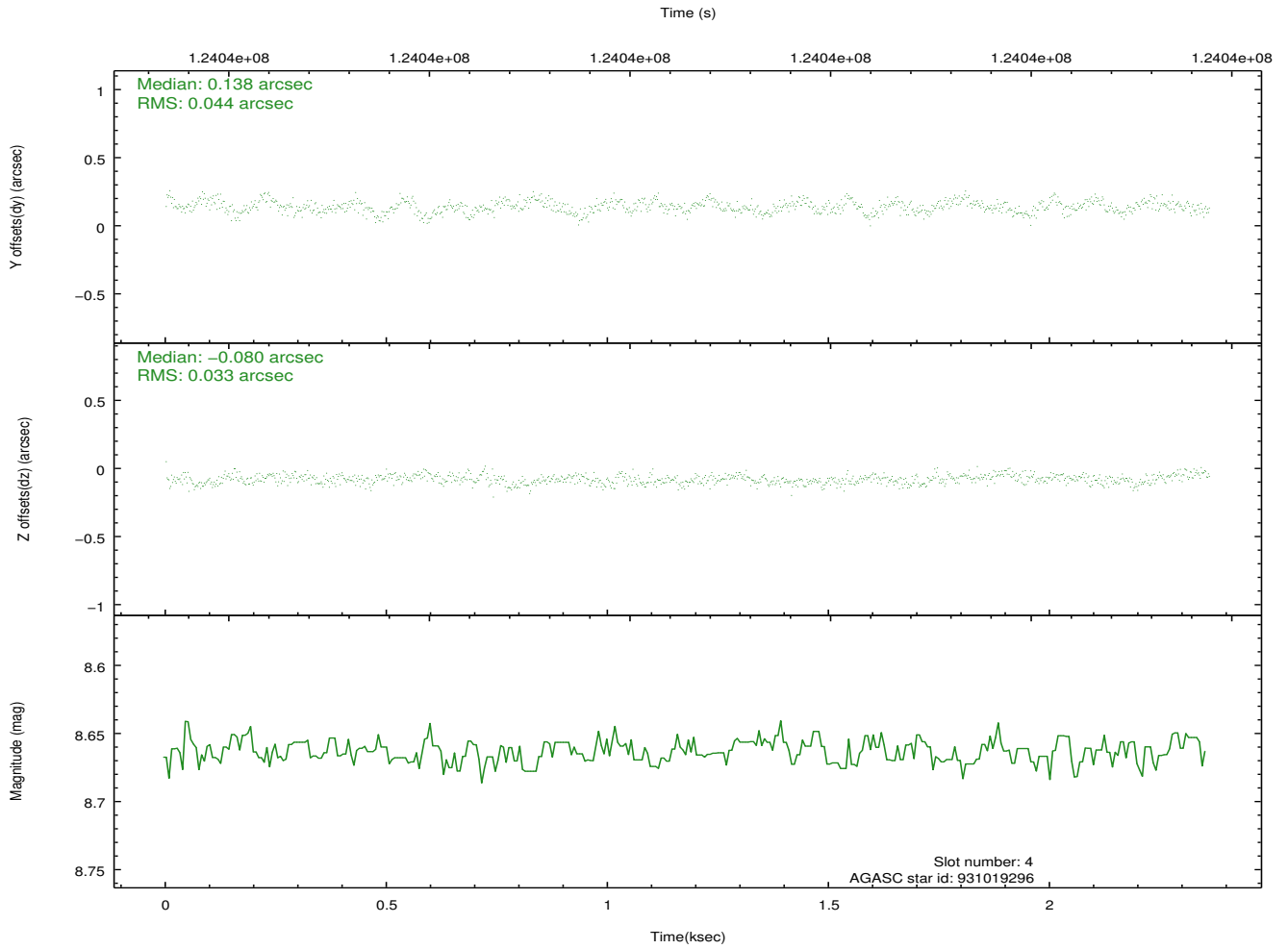
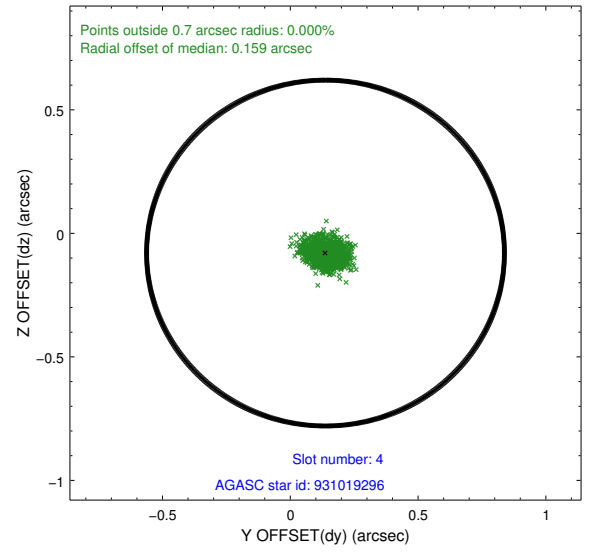
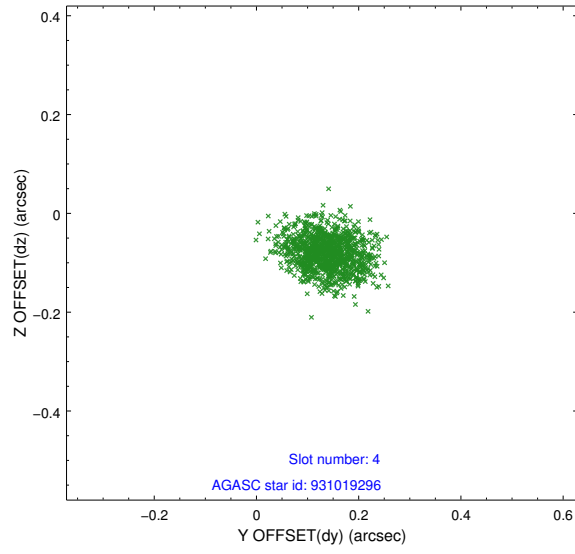


## 2.4 Star Slots

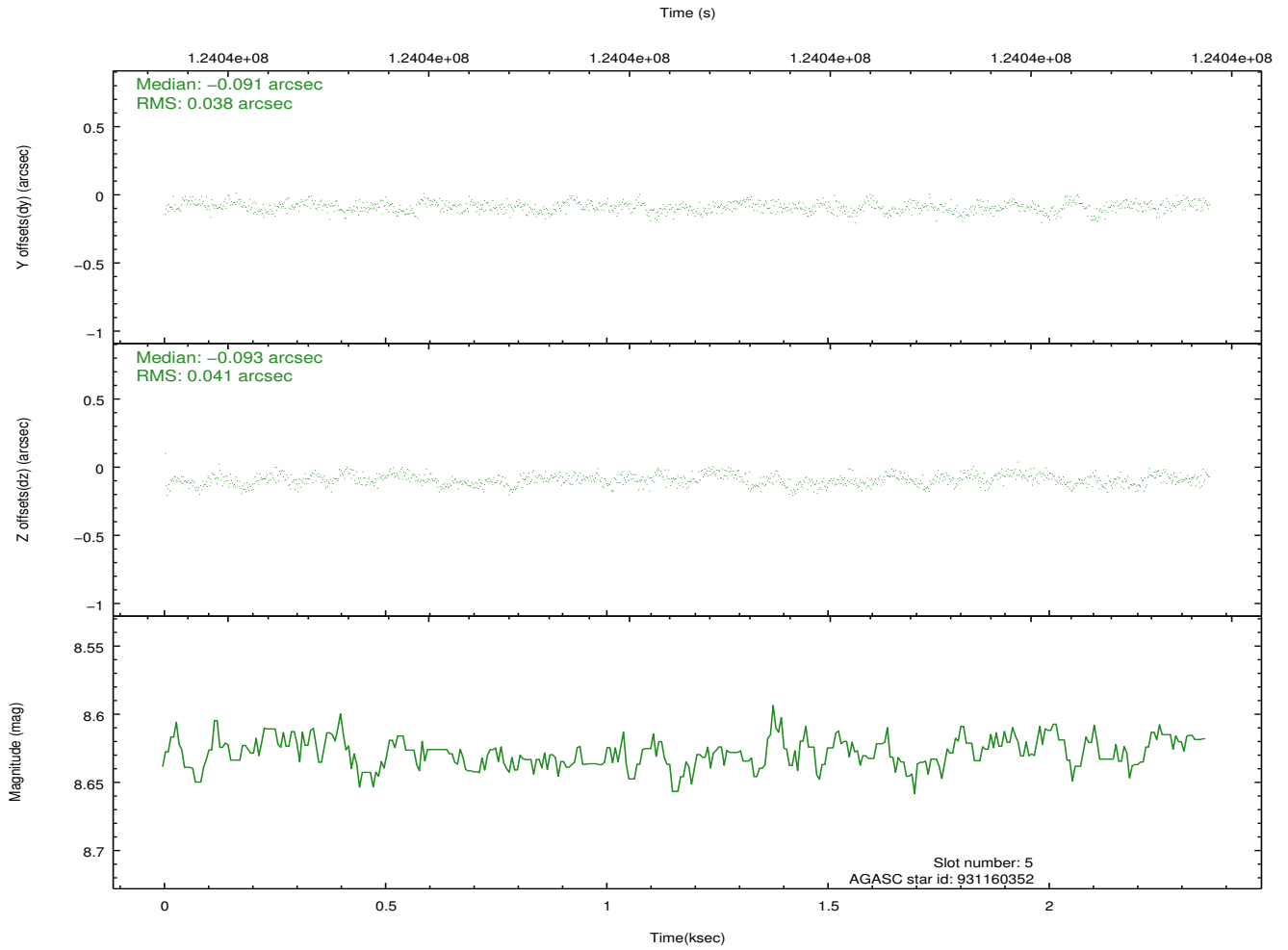
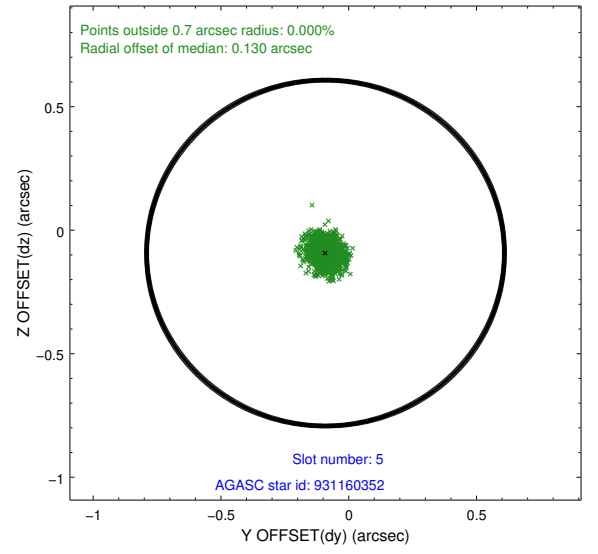
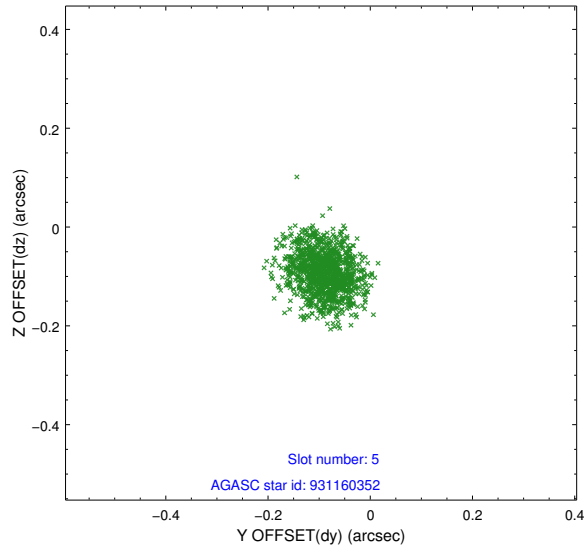
### 2.4.1 Slot 3



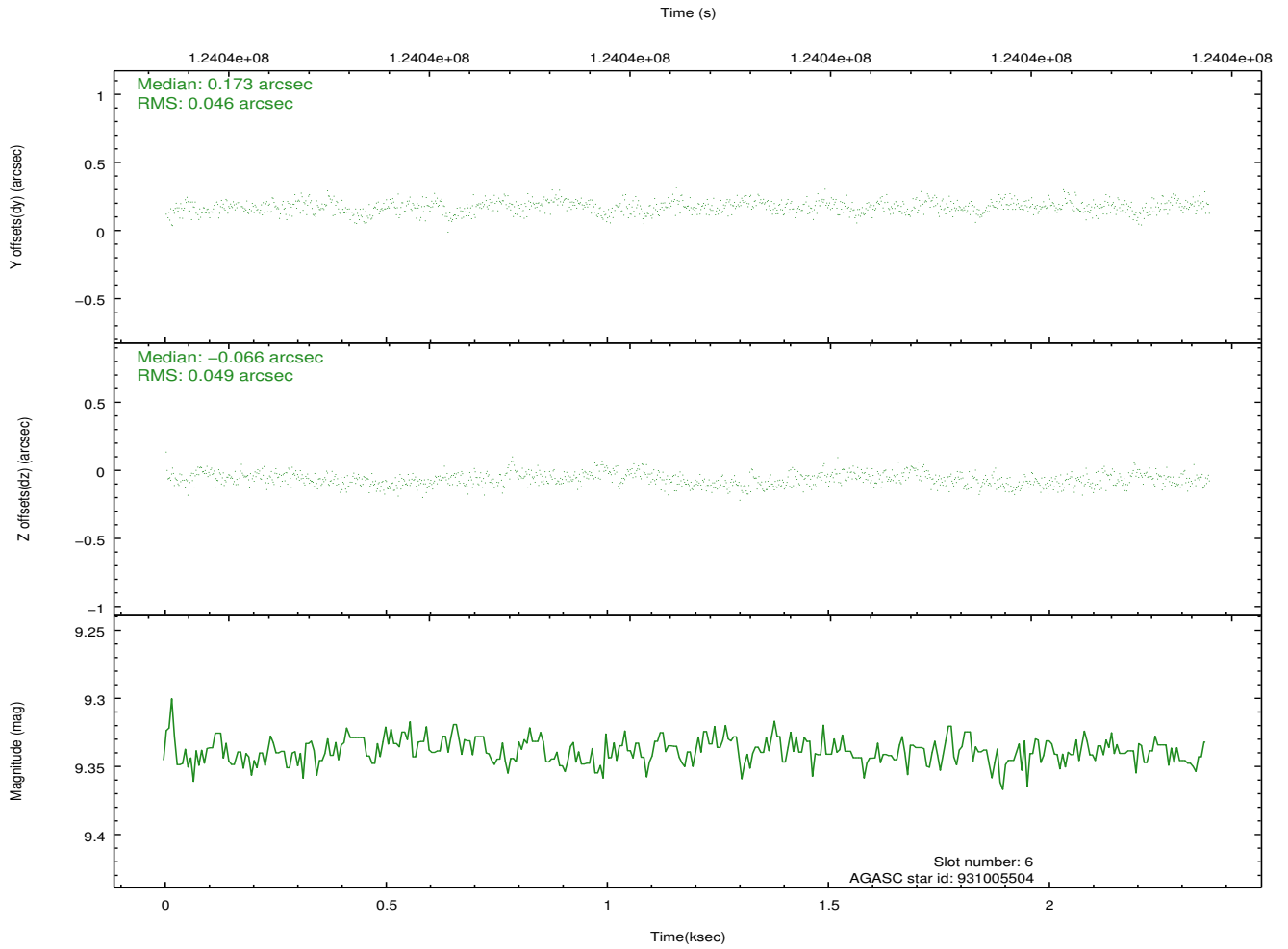
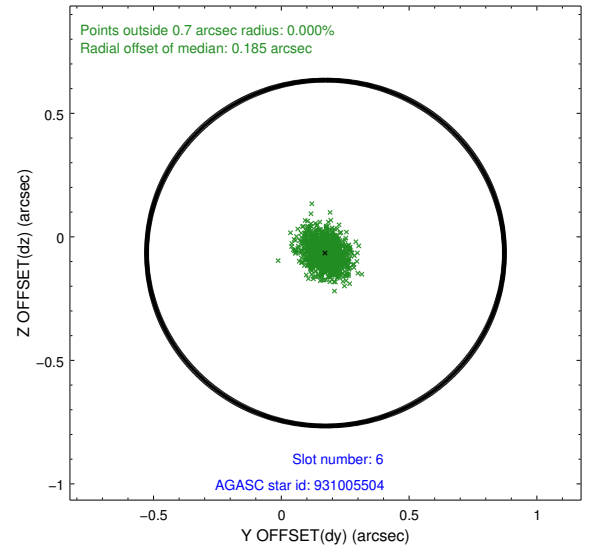
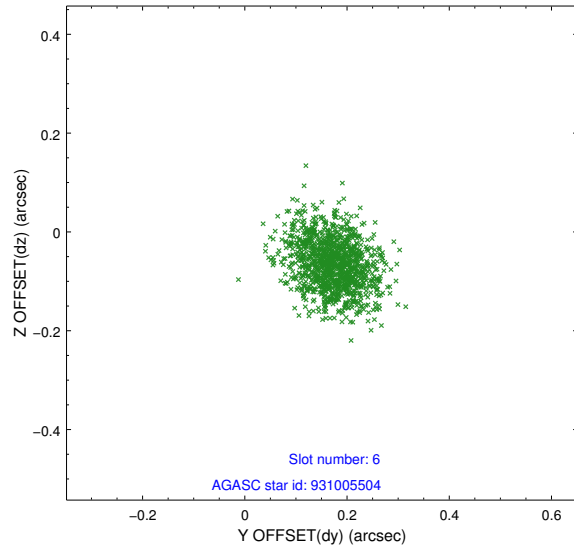
## 2.4.2 Slot 4



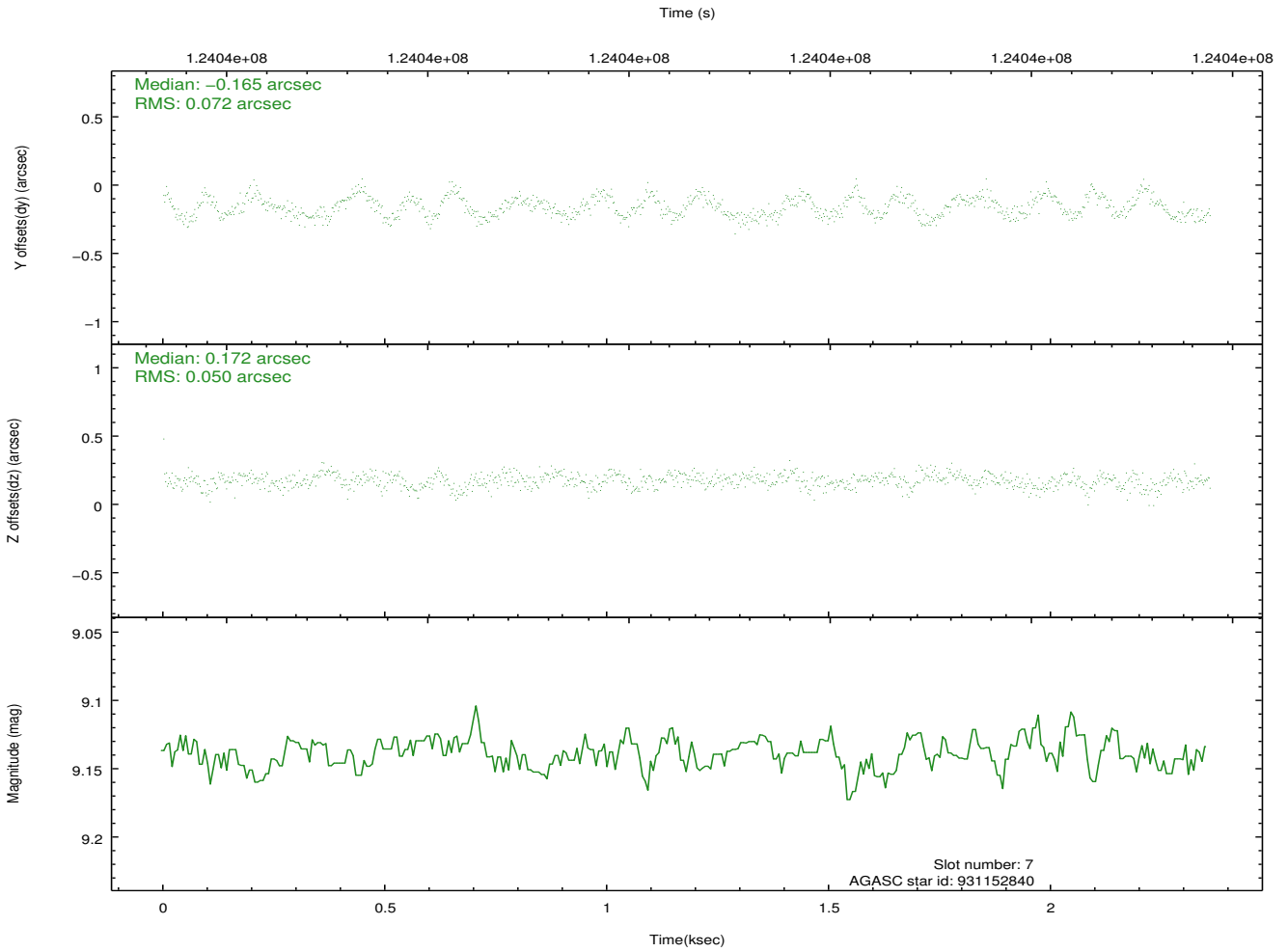
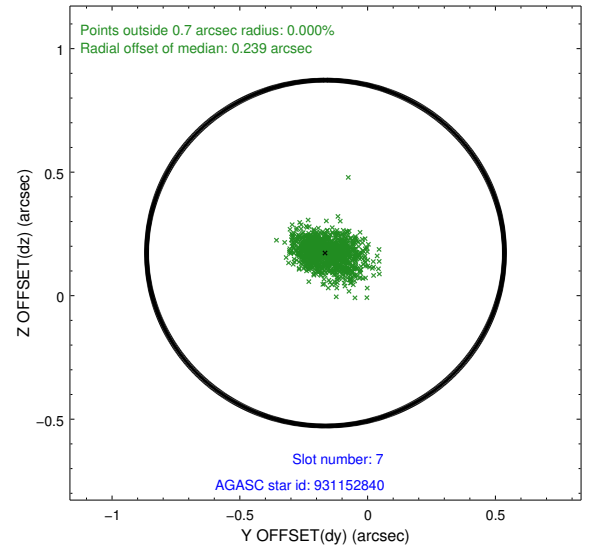
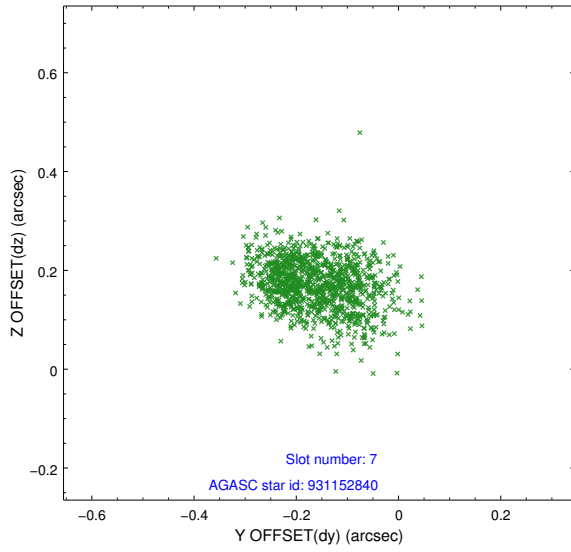
### 2.4.3 Slot 5



## 2.4.4 Slot 6

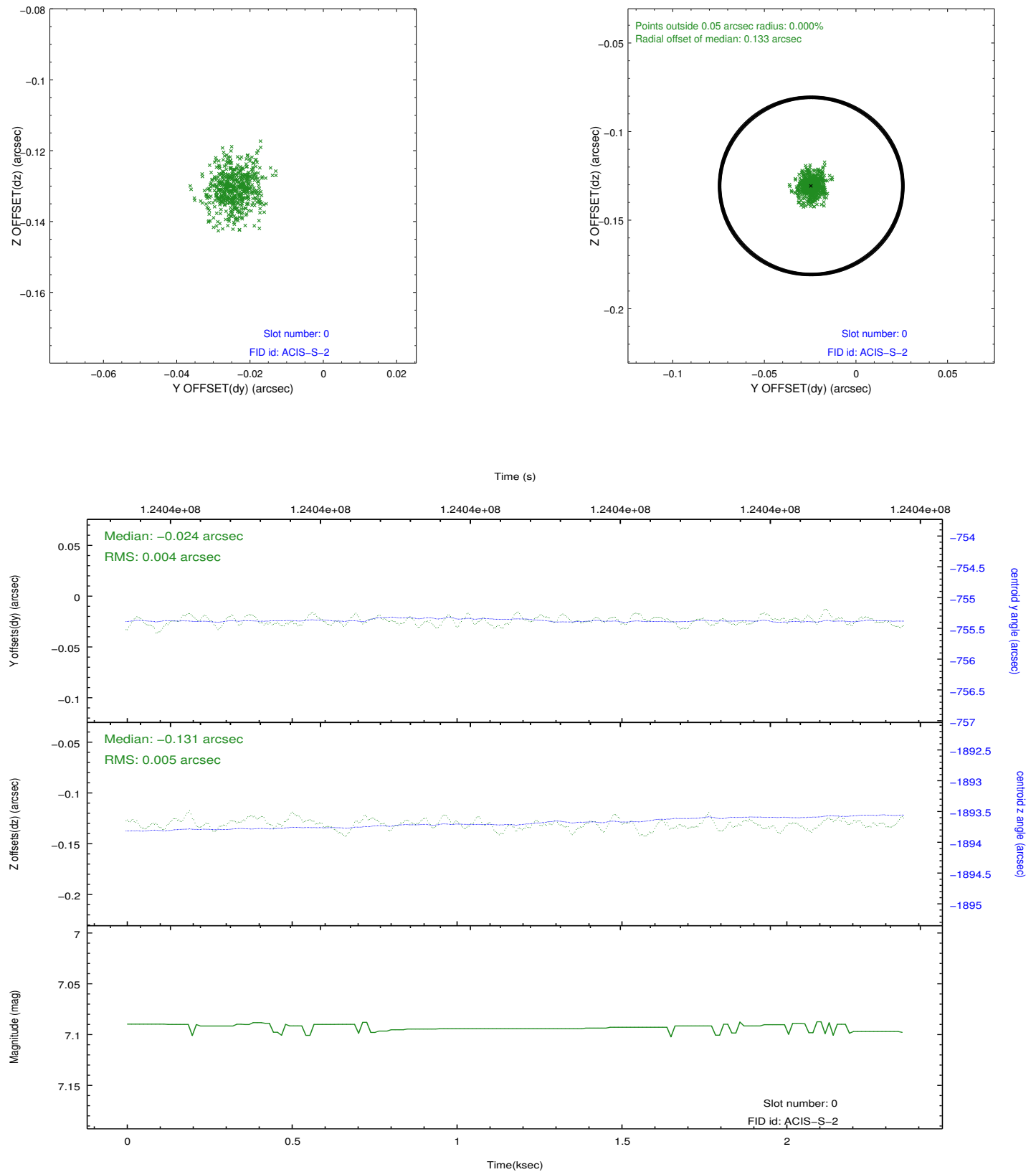


## 2.4.5 Slot 7

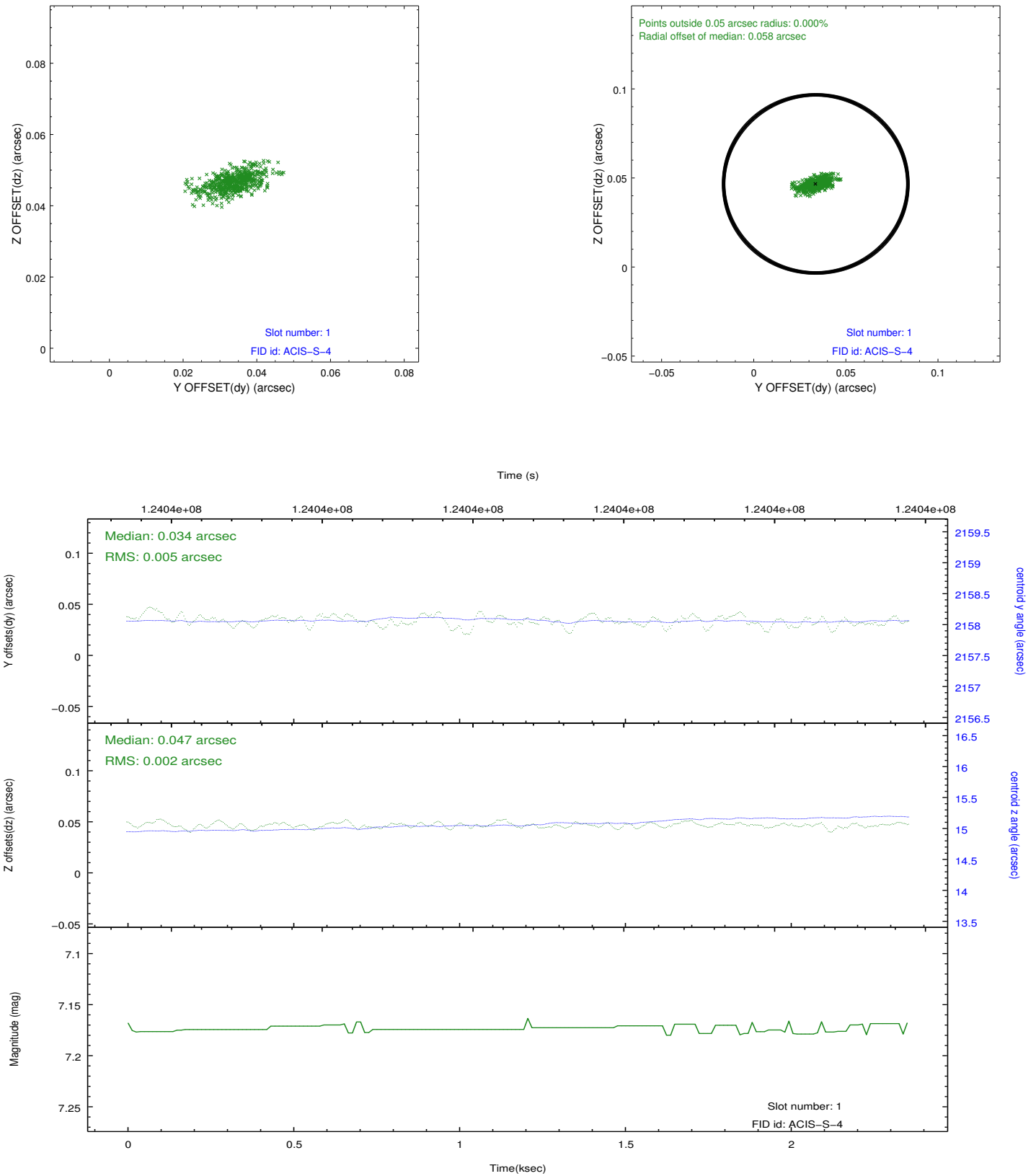


## 2.5 FID Slots

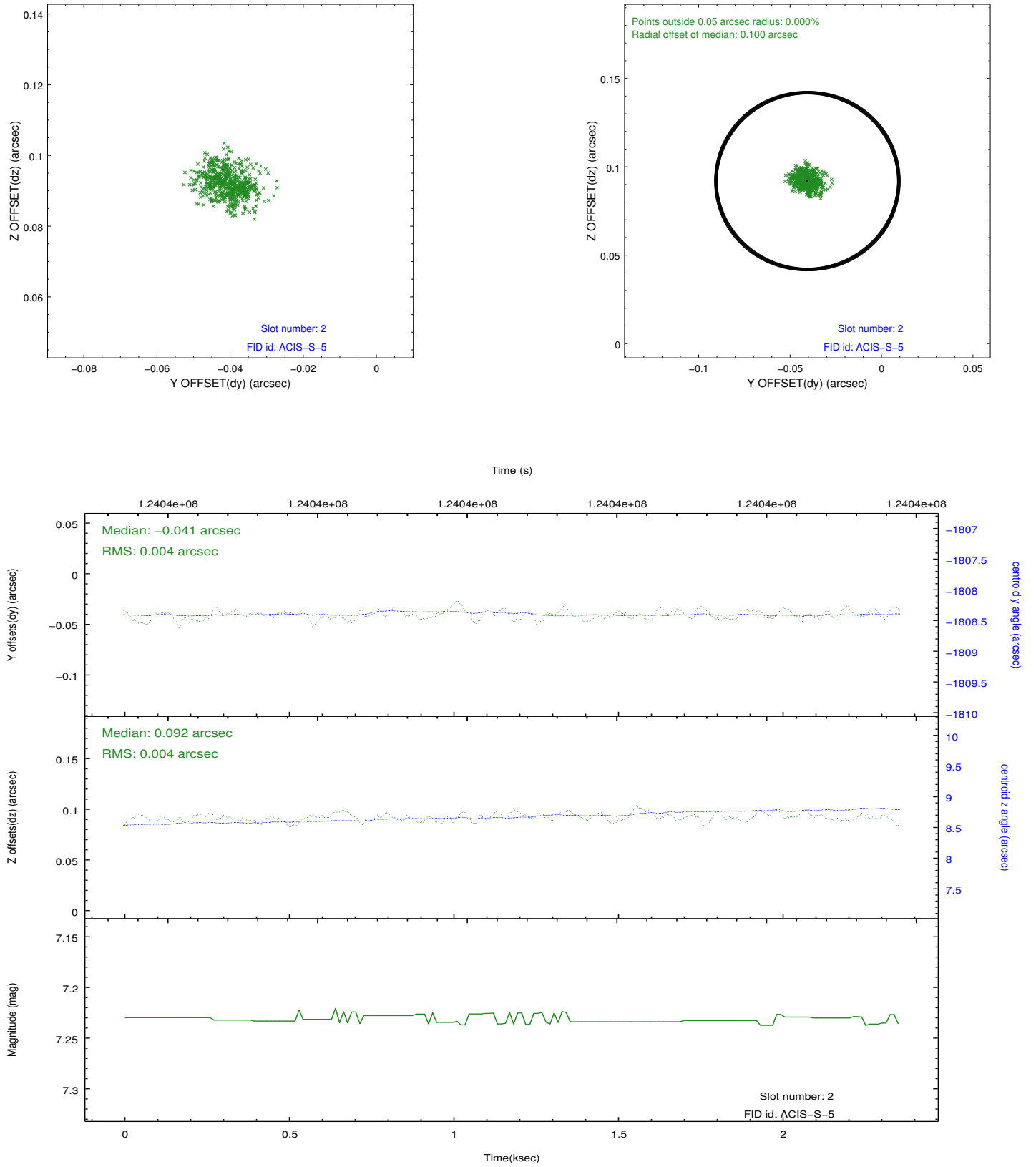
### 2.5.1 Slot 0



## 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)	2012.09.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.859

### A.2 Comments