

# V&V Reference Report

## L2 ASCDS Version : 8.4.3

Observation 14224 - L2 Version 2  
Chandra X-Ray Center

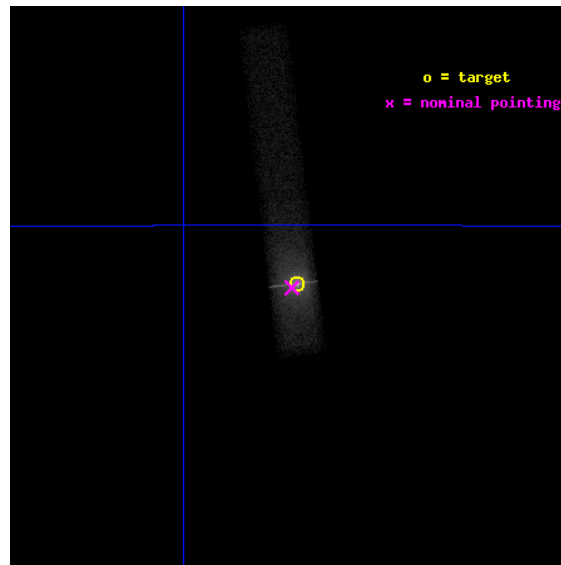
L2 Processing Date : Feb 23 2012

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# 1 Front

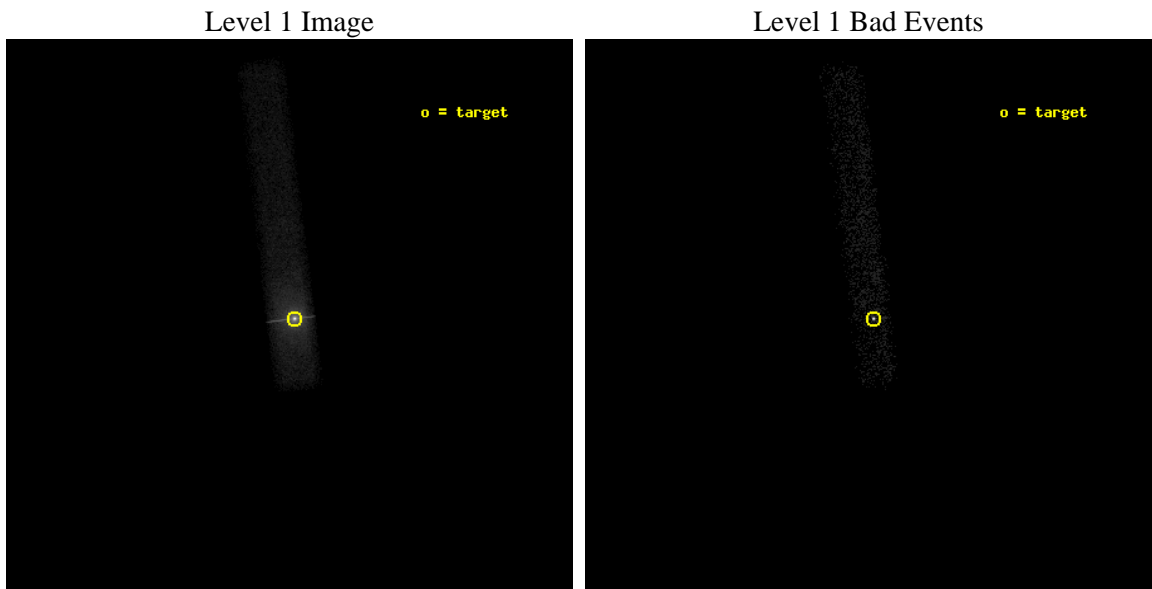
seq_num	401420	Sequence number
obs_id	14224	Observation id
title	Crust cooling of accretion heated neutron stars	Proposal title
observer	Dr. Rudy Wijnands	Principal investigator
object	XTE J1701-407	Source name
dtycycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	255.434708	Observer's specified target RA [deg]
dec_targ	-40.858361	Observer's specified target Dec [deg]
ra_nom	255.43778784488	Nominal RA [deg]
dec_nom	-40.860277439163	Nominal Dec [deg]
roll_nom	263.09253787256	Nominal Roll [deg]
revision	2	Processing version of data
ontime	30907.198157787	Sum of GTIs [s]
livetime	28031.19731343	Livetime [s]
ontime7	30907.198157787	Sum of GTIs [s]
l2events	95266	Number of level 2 events



## 2 OBI

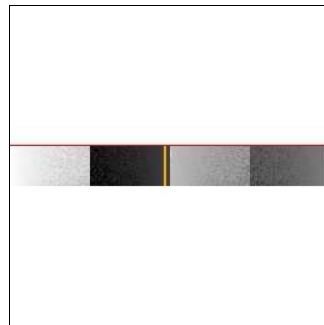
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	30898.483000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	30907.198157787	Sum of GTIs [s]
caldbver	4.4.8	&#160	ontime7	30907.198157787	Sum of GTIs [s]
date	2012-02-23T01:08:08	Date and time of file creation	l1events	143830	Number of level 1 events
revision	2	Processing version of data			

### 2.1.4 Events

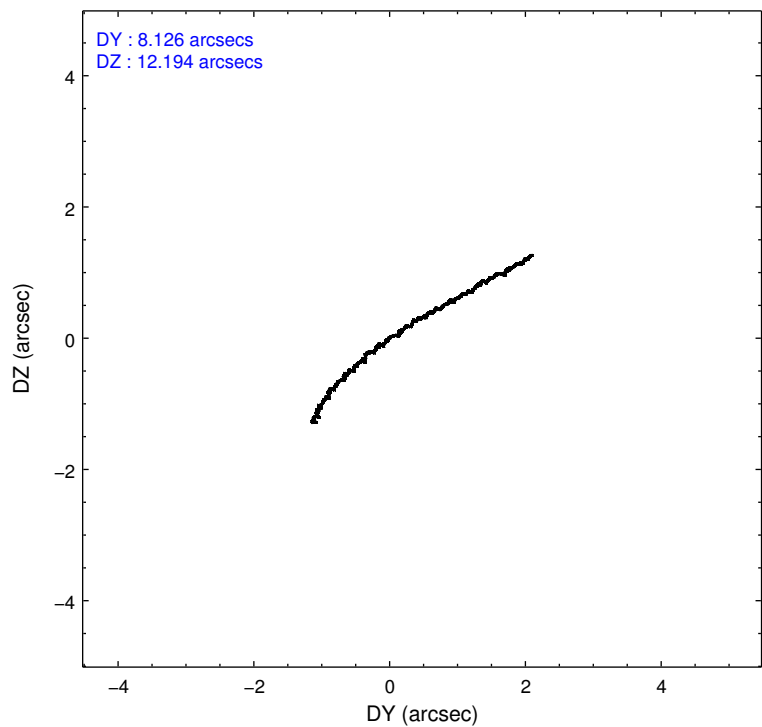
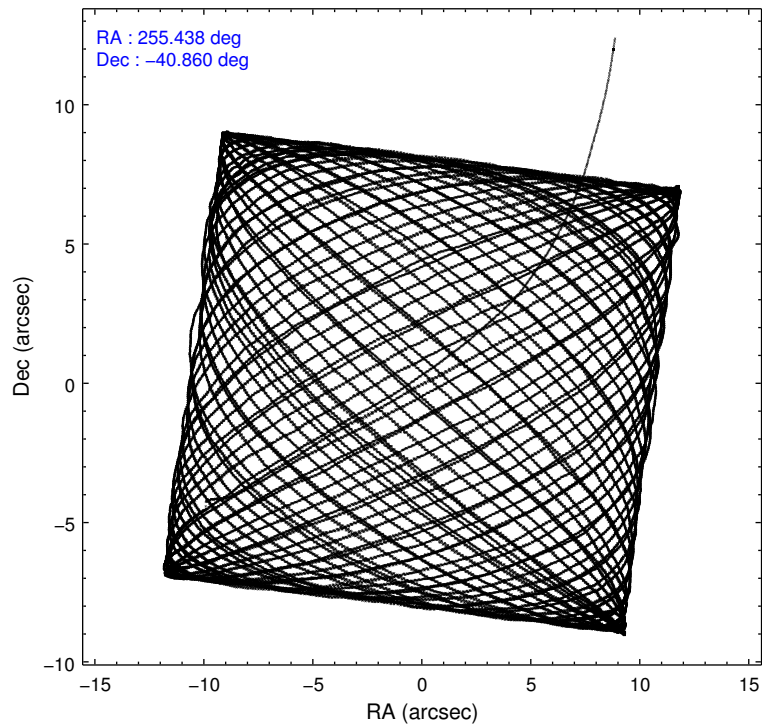
	<b>ccd 7</b>
level 1 events	143830
rejected events	47577
rejected %	<b>33%</b>

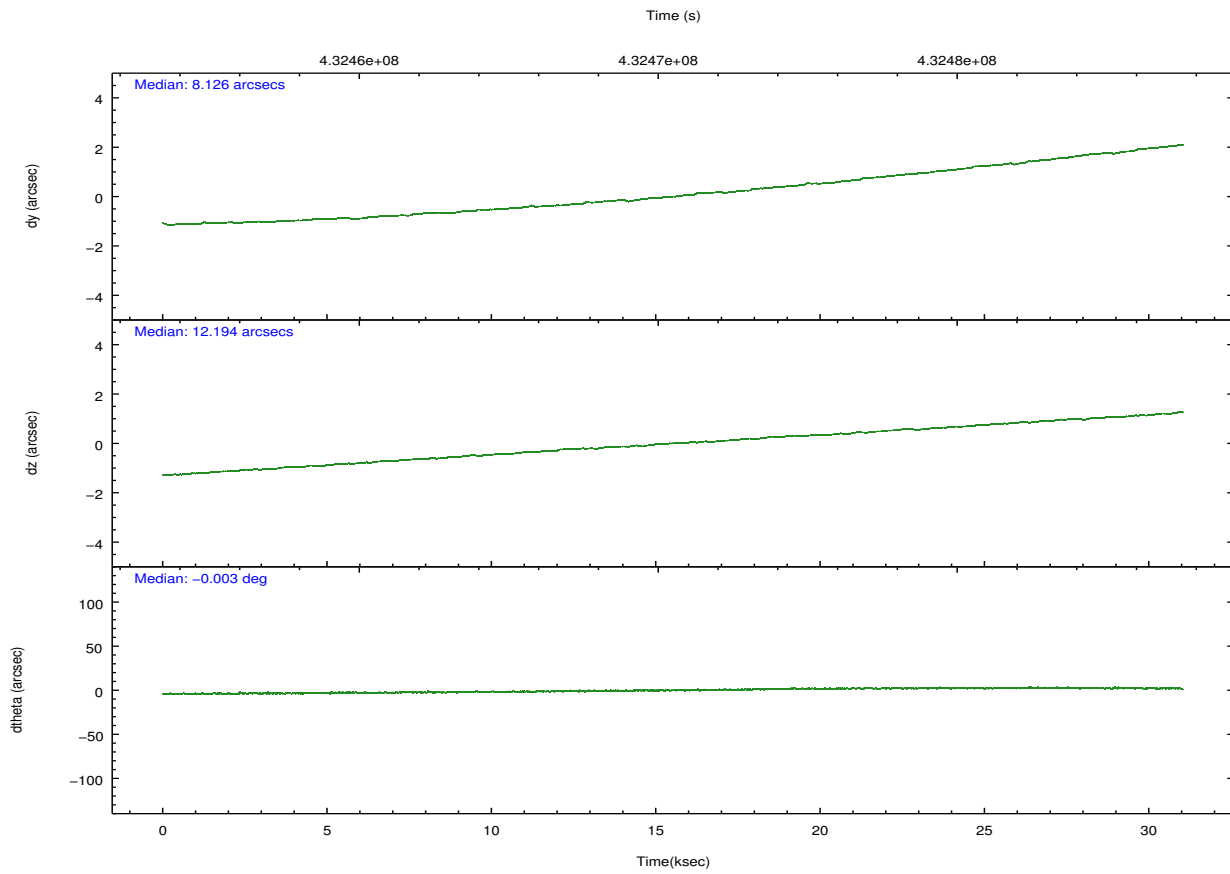
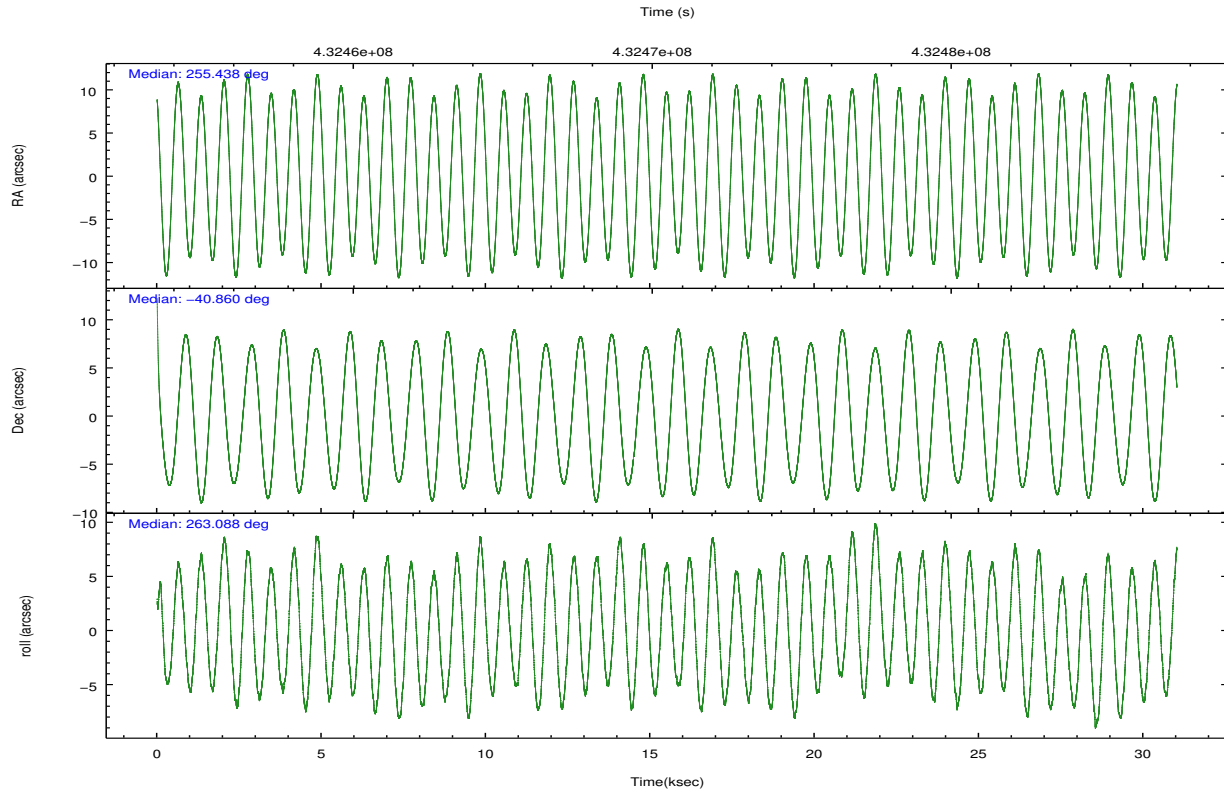
	<b>ccd 7</b>
grade 0 events	13840
	9%
grade 1 events	1492
	1%
grade 2 events	19990
	13%
grade 3 events	9521
	6%
grade 4 events	9555
	6%
grade 5 events	11609
	8%
grade 6 events	43350
	30%
grade 7 events	34473
	23%

## 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	255.423170	255.4377878448838	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	-40.835279	-40.86027743916282	Subarray start row	449	449
[deg] Pointing Roll	262.926355	263.0925378725551	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	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	432455116.184000	432453459.68109			
Observation start date	2011-09-15T06:24:10	2011-09-15T05:57:39			
[s] Observation end time (MET)	432486015.184000	432486240.72031			
Observation end date	2011-09-15T14:59:09	2011-09-15T15:04:00			
Read mode	TIMED	TIMED			

## 2.3 Aspect



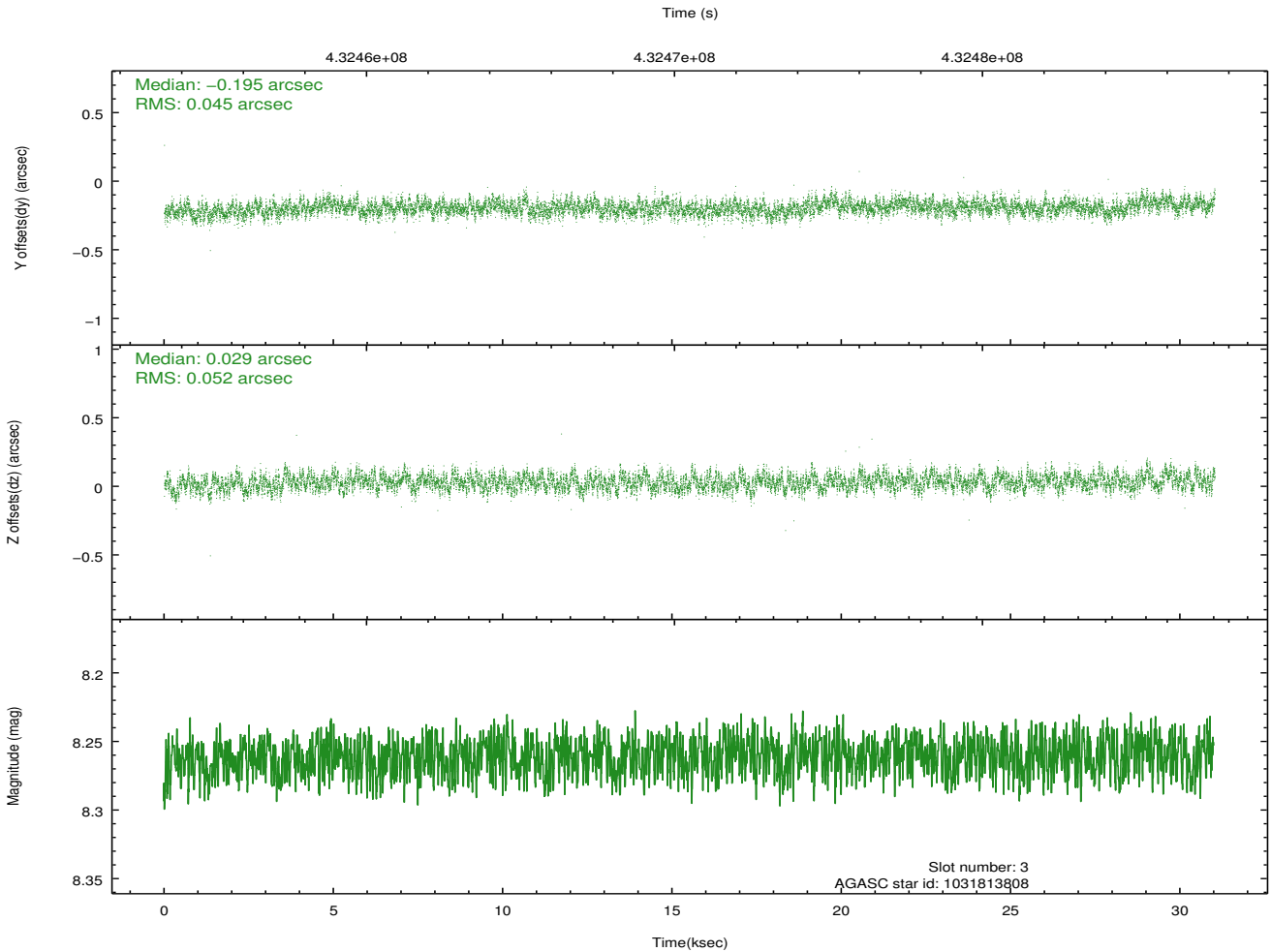
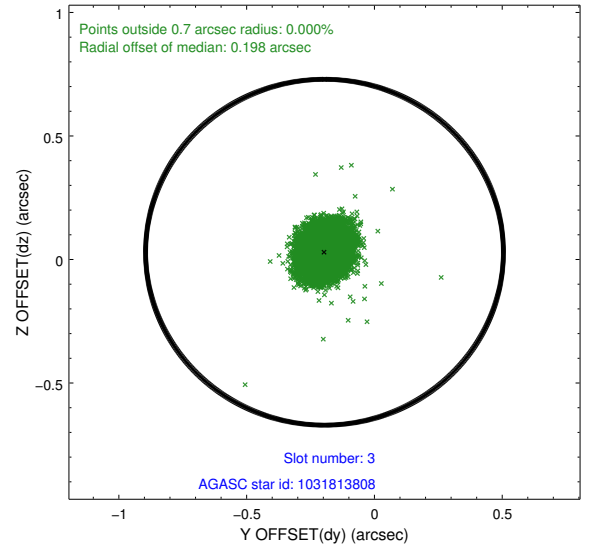
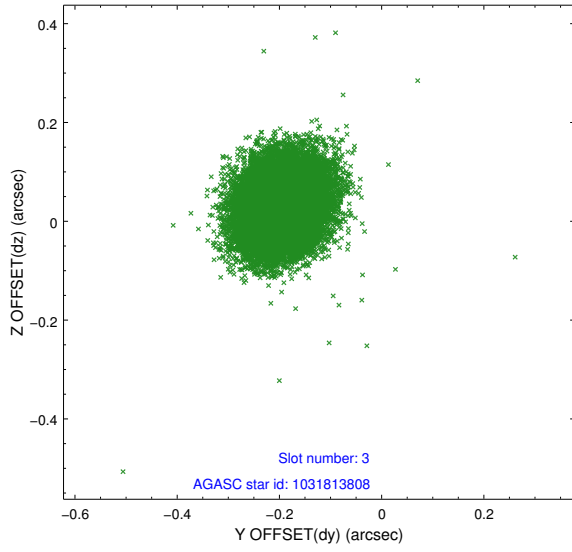


### Slot Statistics

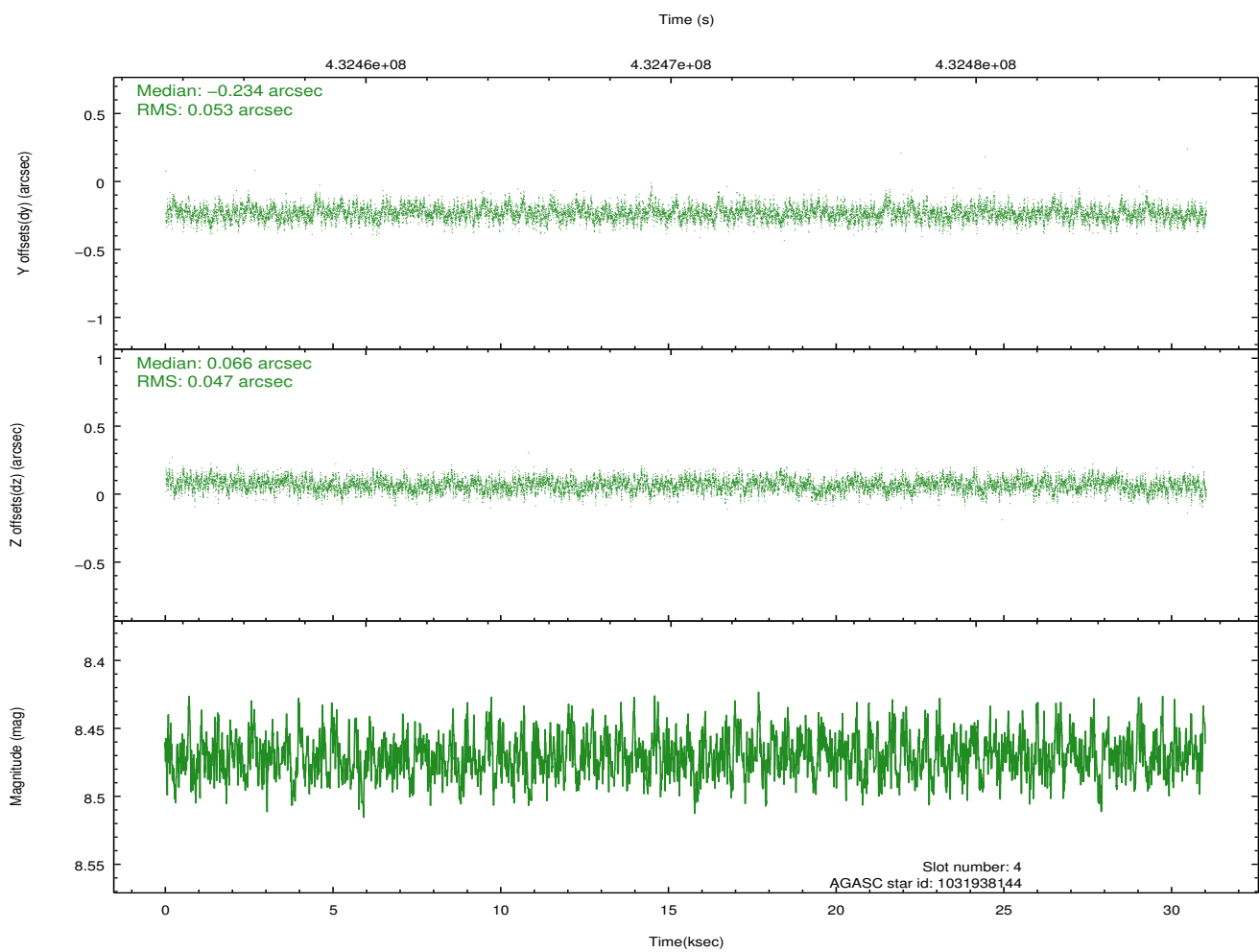
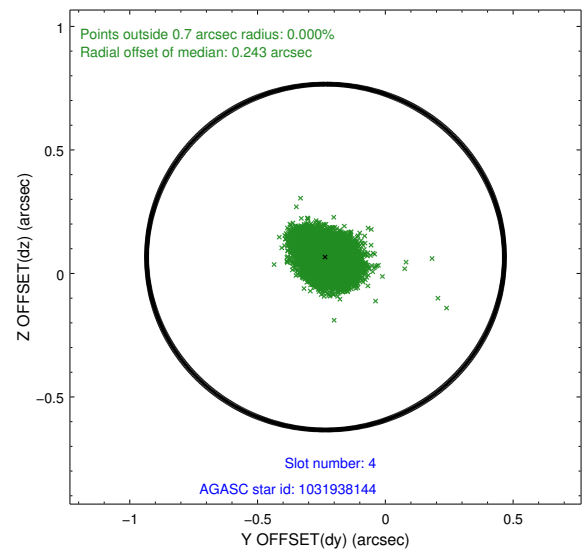
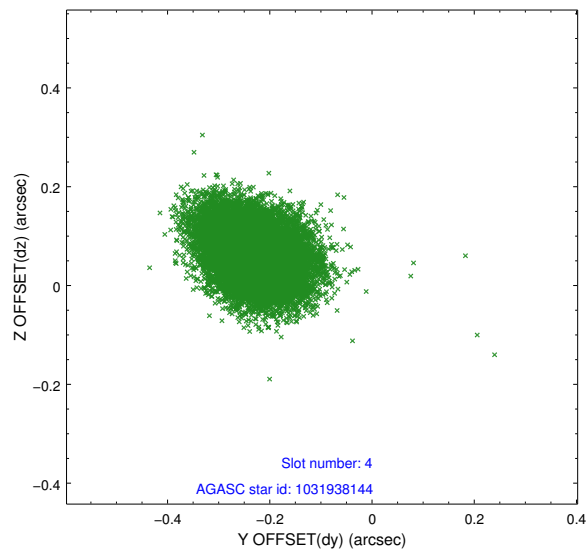
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.94	7567	-0.038	-0.031	0.024	0.035	0.000000	0.000000	-761.14	-1733.50
1	FID	ACIS-S-4	7.03	7567	0.164	0.026	0.028	0.050	0.000000	0.000000	2152.34	174.94
2	FID	ACIS-S-5	7.06	7566	-0.170	0.018	0.041	0.064	0.000000	0.000000	-1814.00	168.71
3	GUIDE	1031813808	8.26	15131	-0.195	0.029	0.074	0.117	254.789150	-40.300097	-1691.02	-1963.98
4	GUIDE	1031938144	8.47	15130	-0.234	0.066	0.075	0.123	255.693343	-40.912652	187.12	763.98
5	GUIDE	1032338512	8.42	15120	0.178	-0.059	0.087	0.143	254.833160	-41.405214	2238.71	-1327.46
6	GUIDE	1032340744	7.93	15083	0.197	-0.124	0.083	0.137	254.712738	-41.416040	2319.75	-1644.90
7	GUIDE	1032466120	9.11	15058	0.055	0.085	0.097	0.154	255.616572	-41.318828	1664.68	733.37

## 2.4 Star Slots

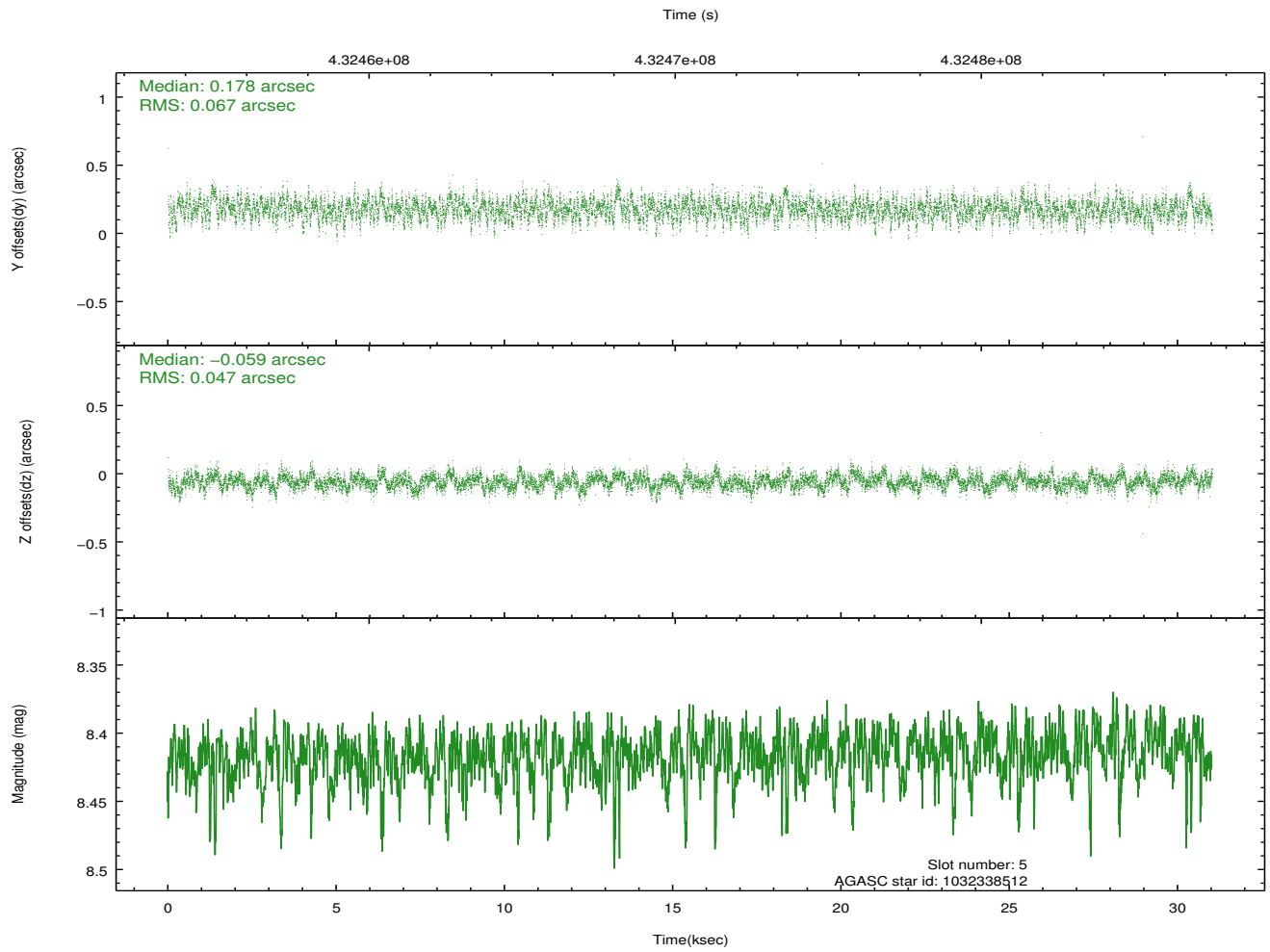
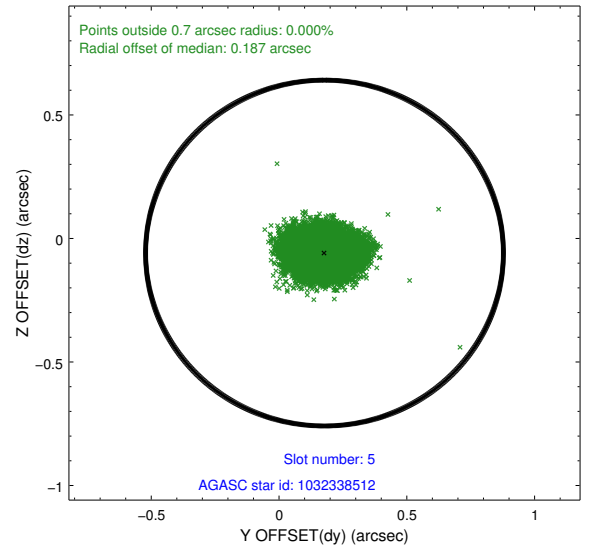
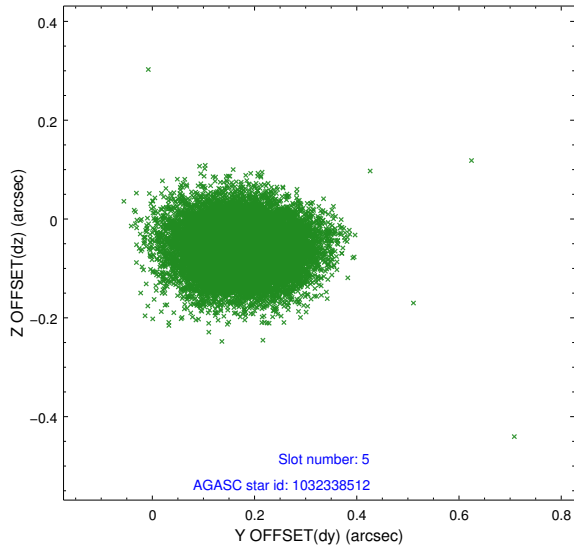
### 2.4.1 Slot 3



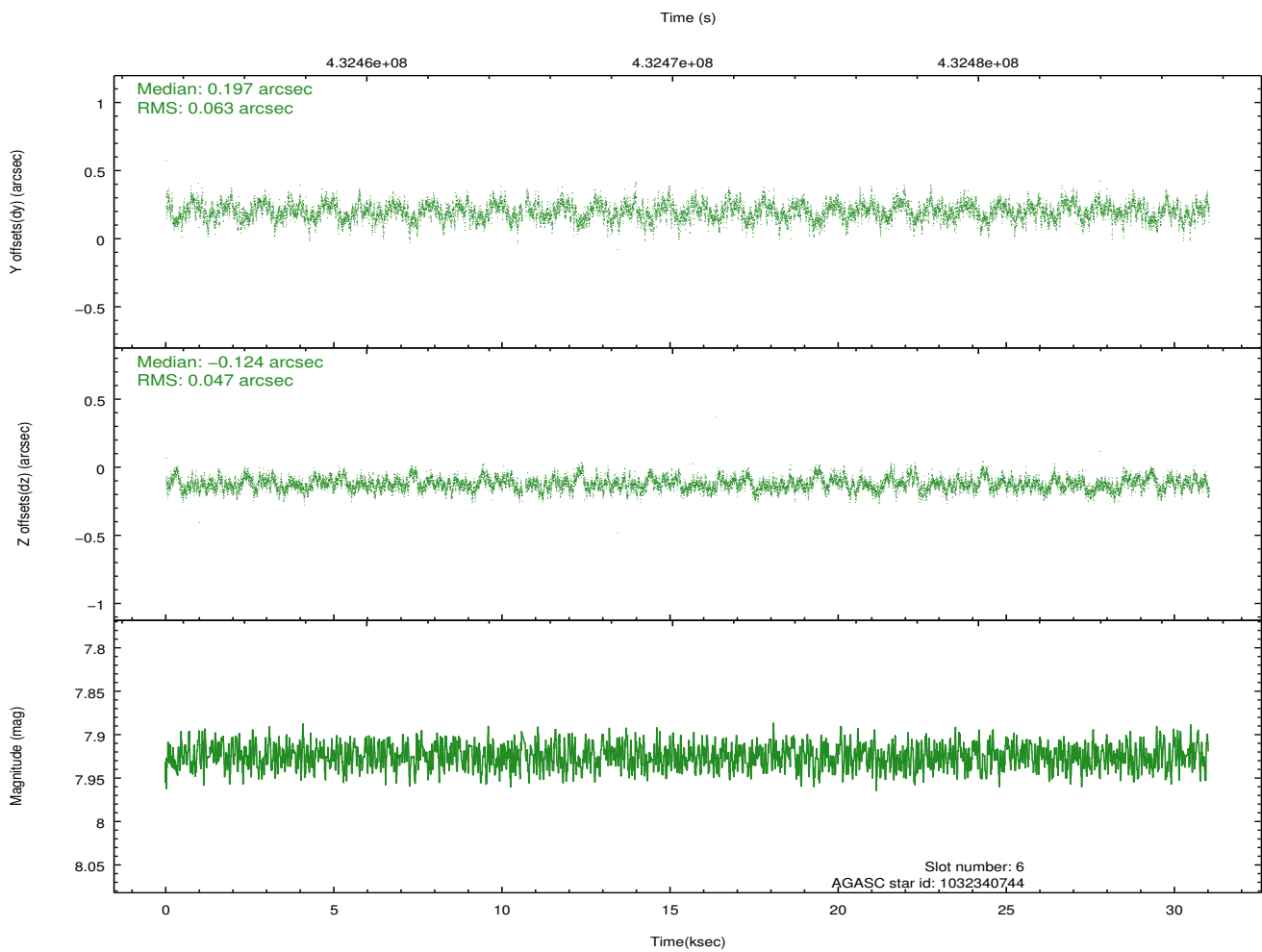
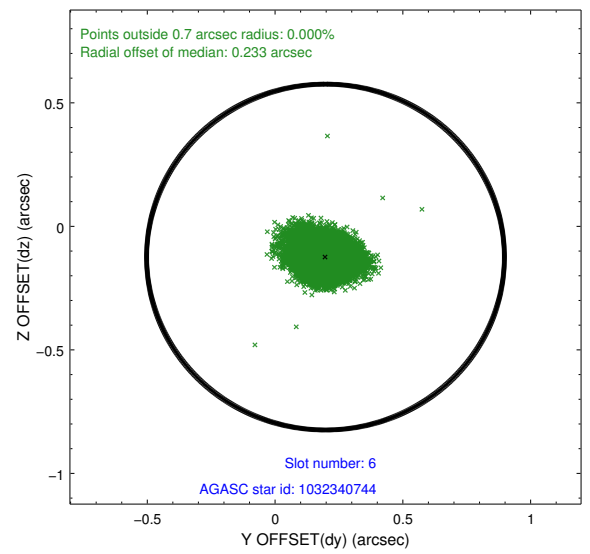
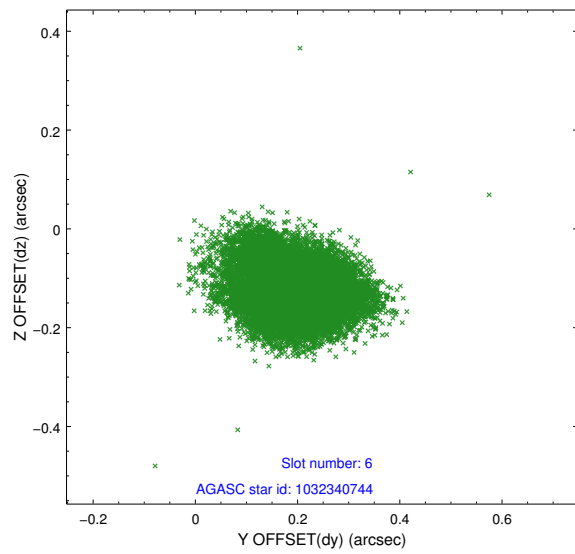
## 2.4.2 Slot 4



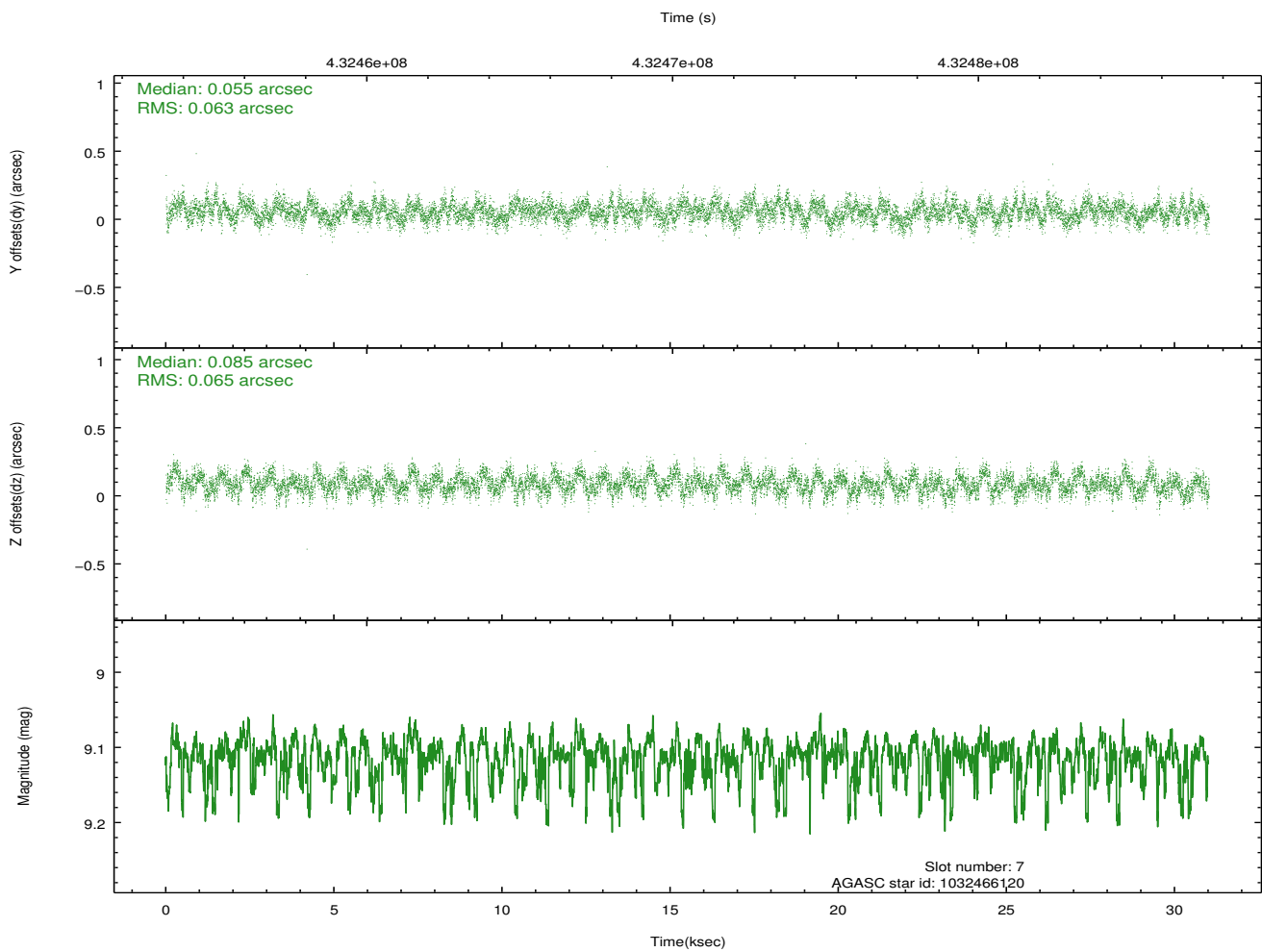
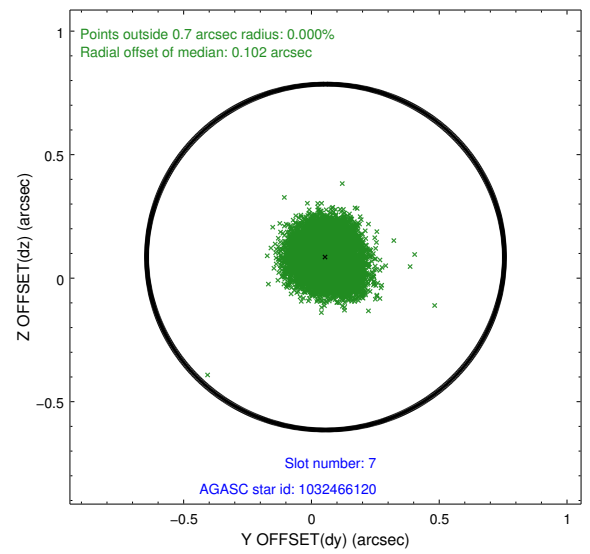
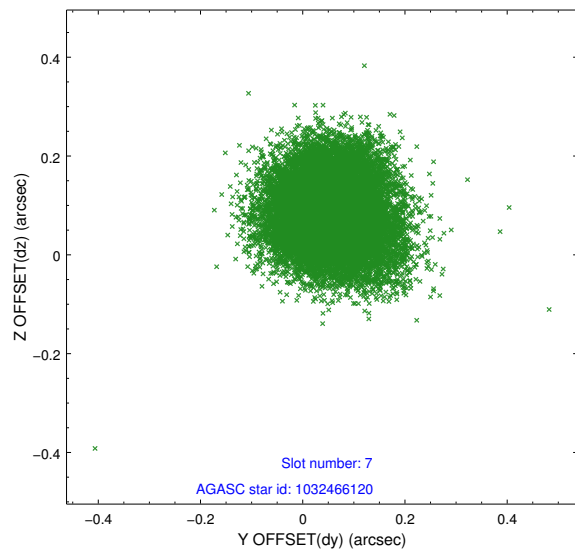
### 2.4.3 Slot 5



## 2.4.4 Slot 6

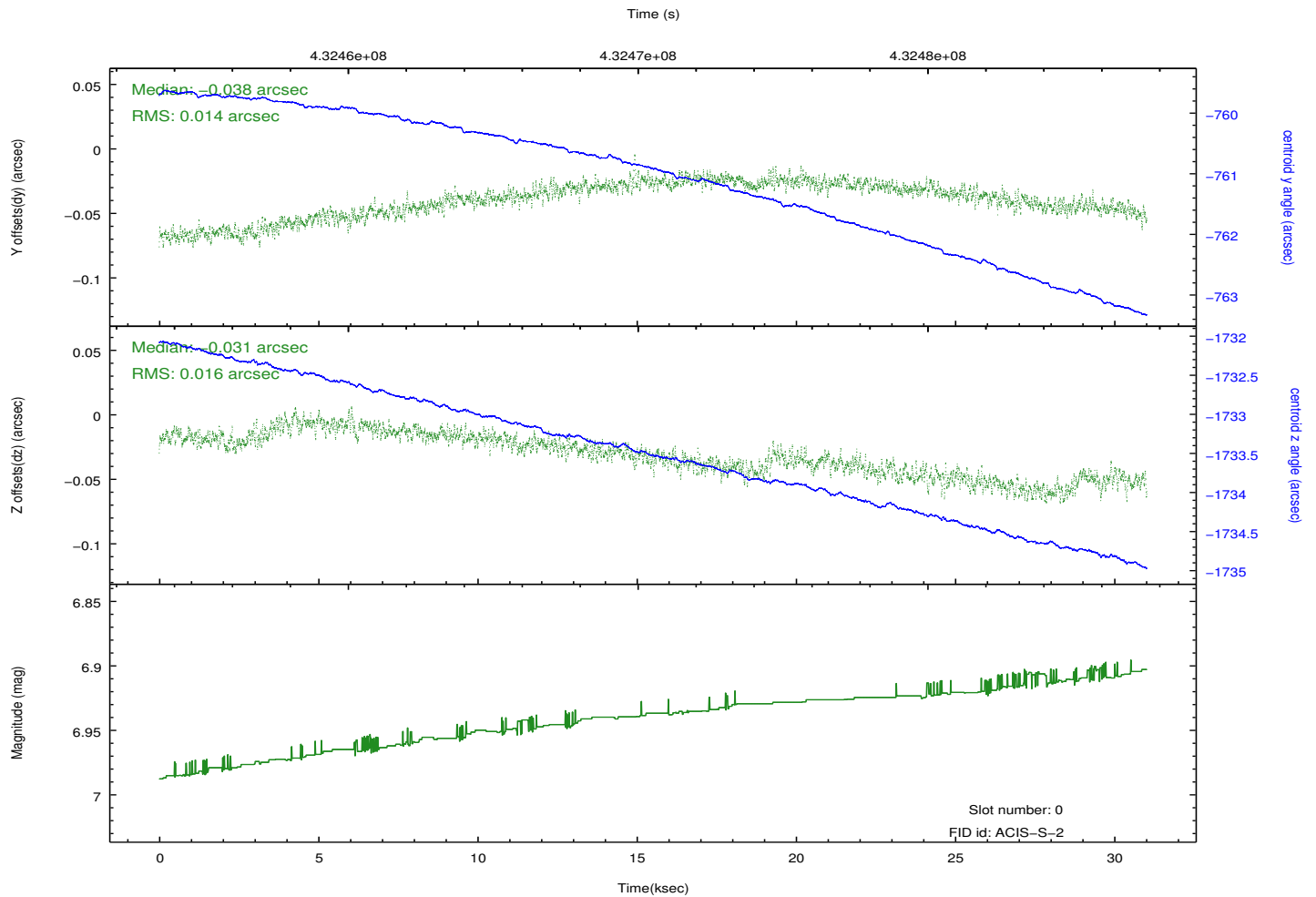
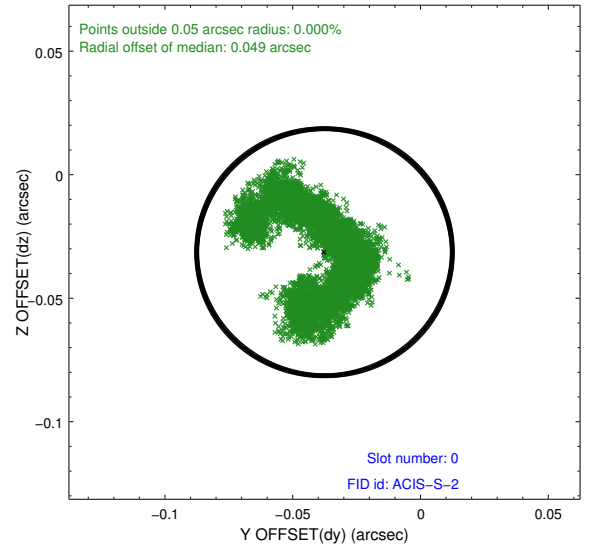
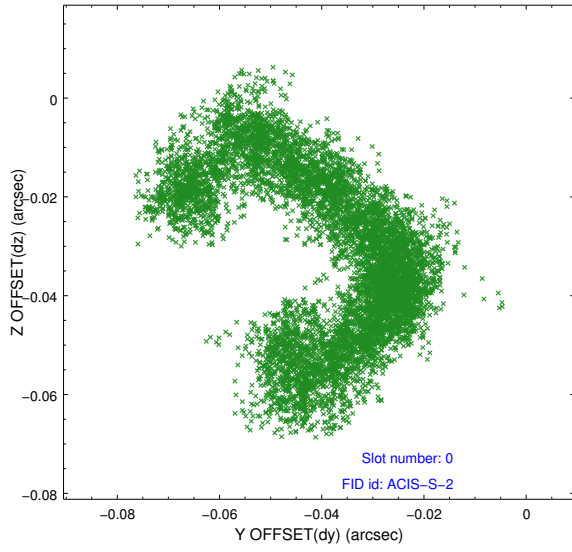


## 2.4.5 Slot 7

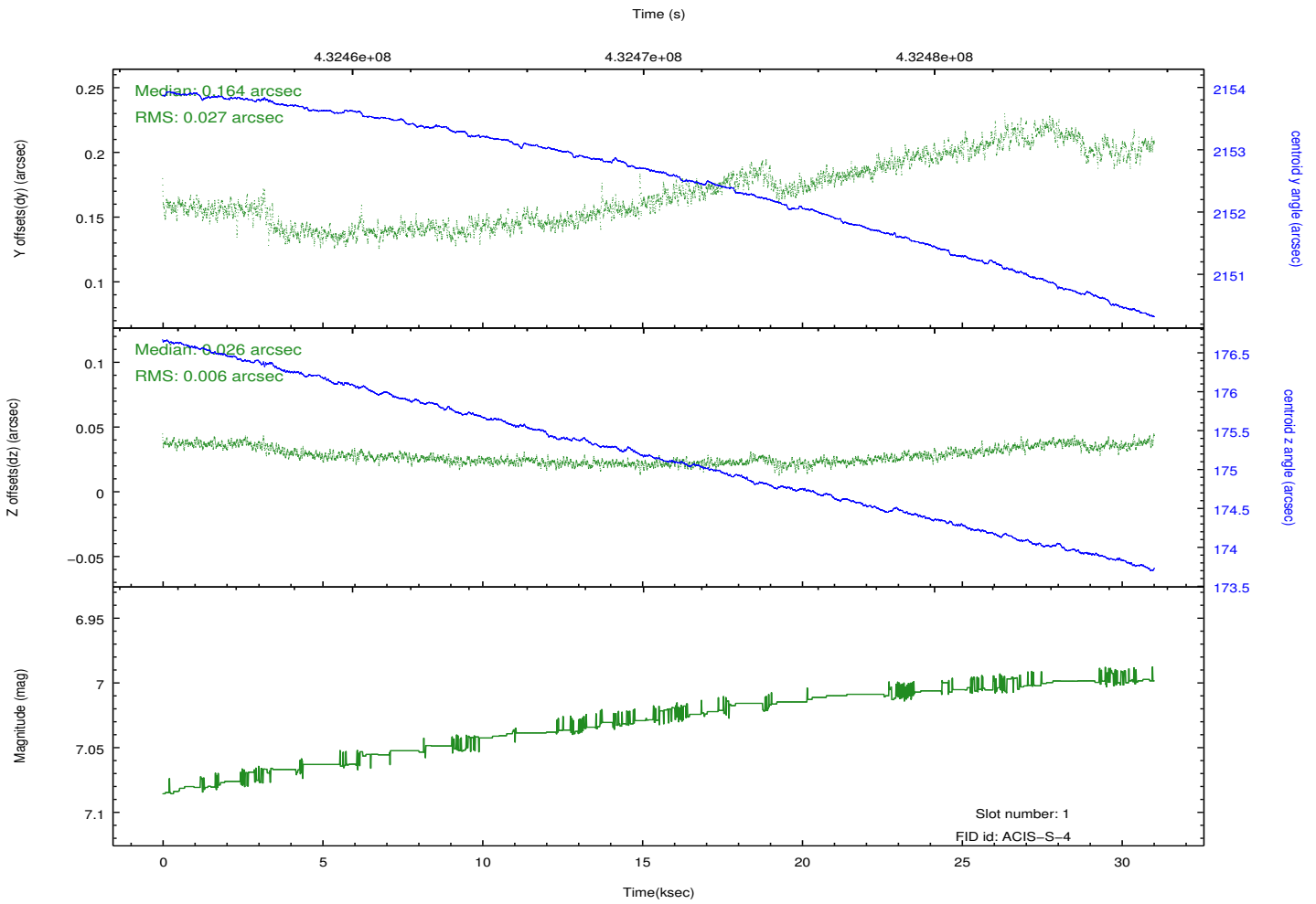
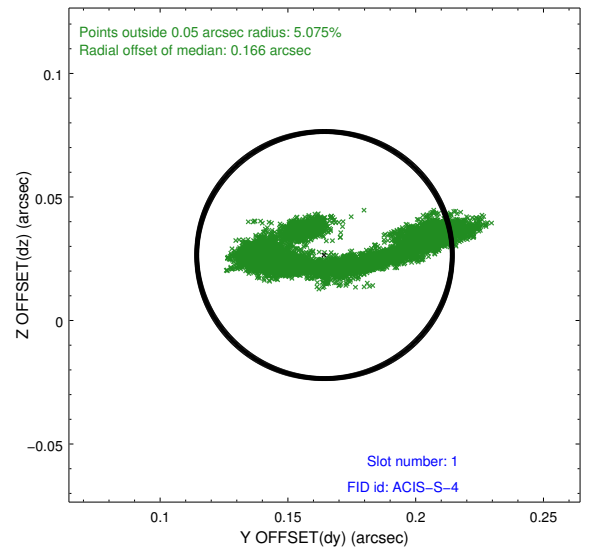
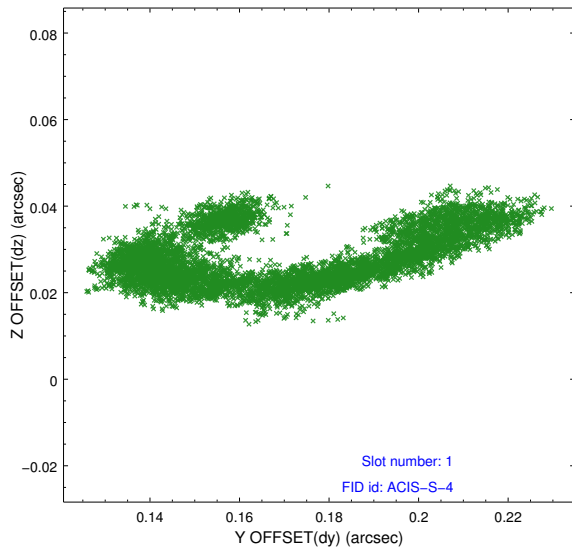


## 2.5 FID Slots

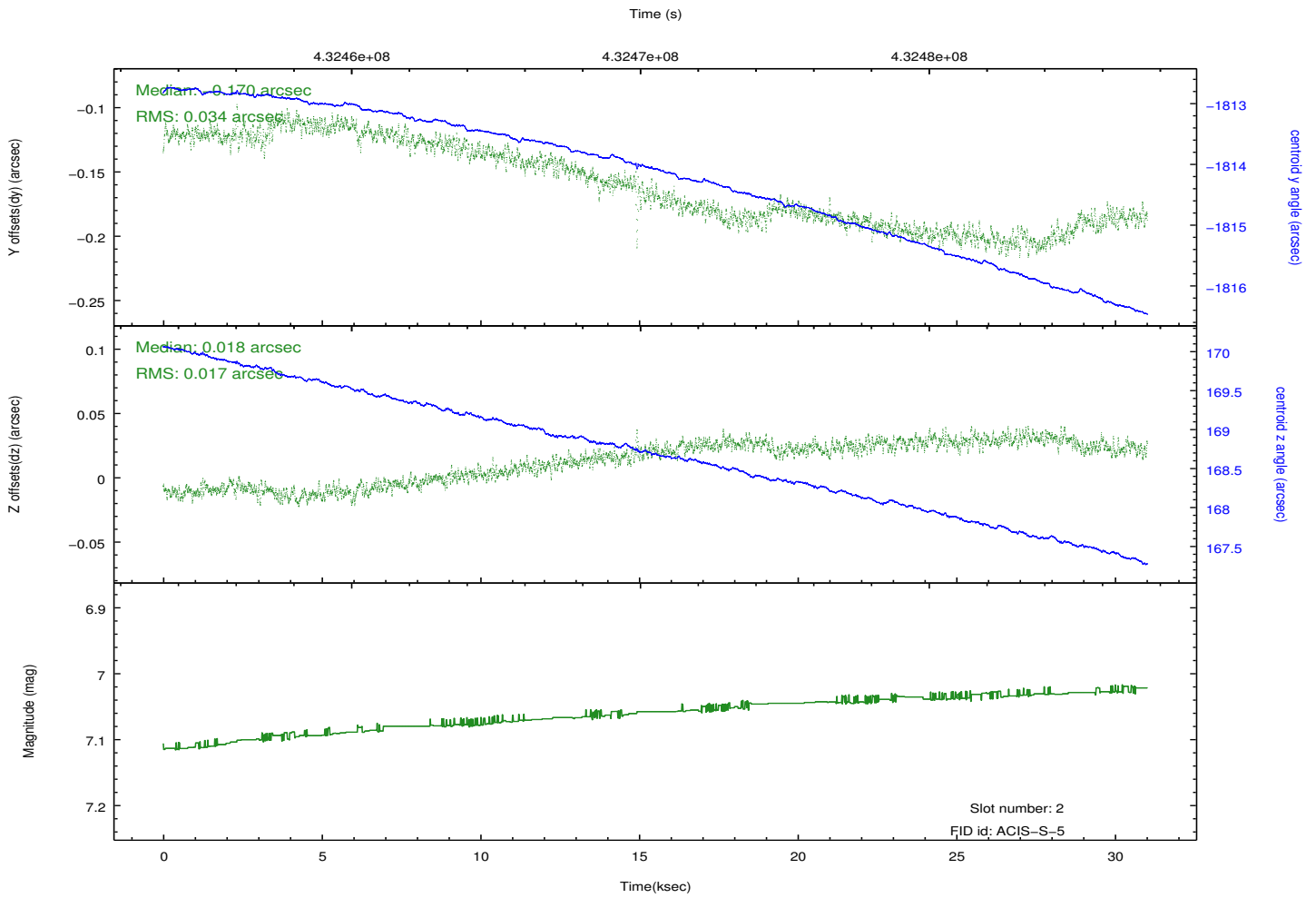
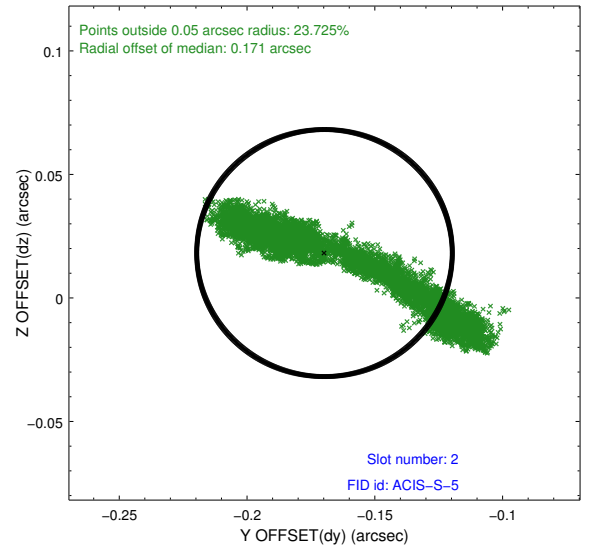
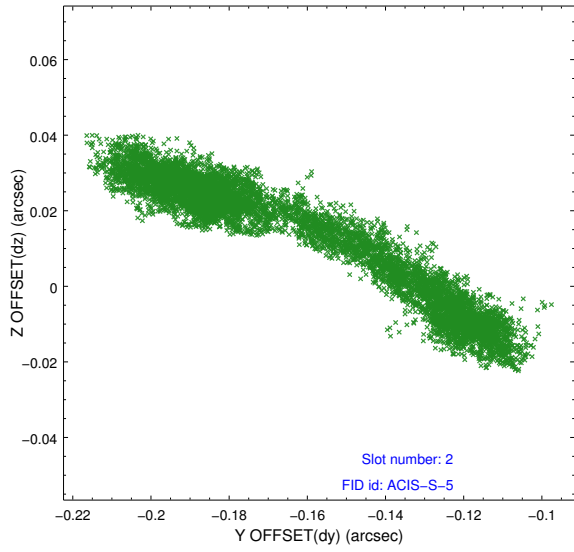
### 2.5.1 Slot 0



## 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)	2012.02.24
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	30.907198157787

## A.2 Comments