

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 12868 - L2 Version 3  
Chandra X-Ray Center

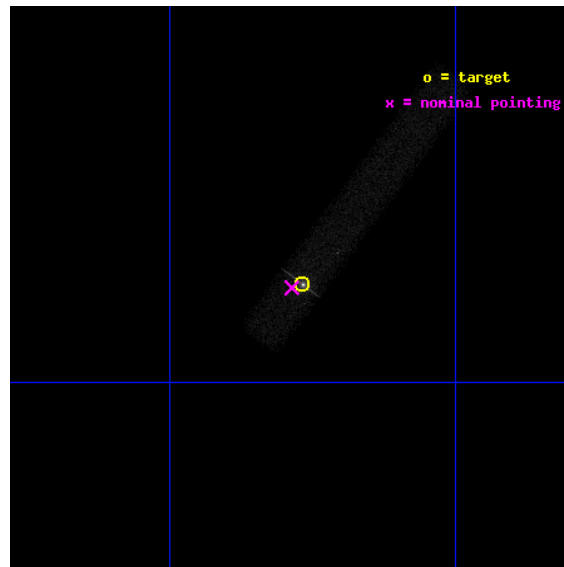
L2 Processing Date : Jul 9 2012

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# 1 Front

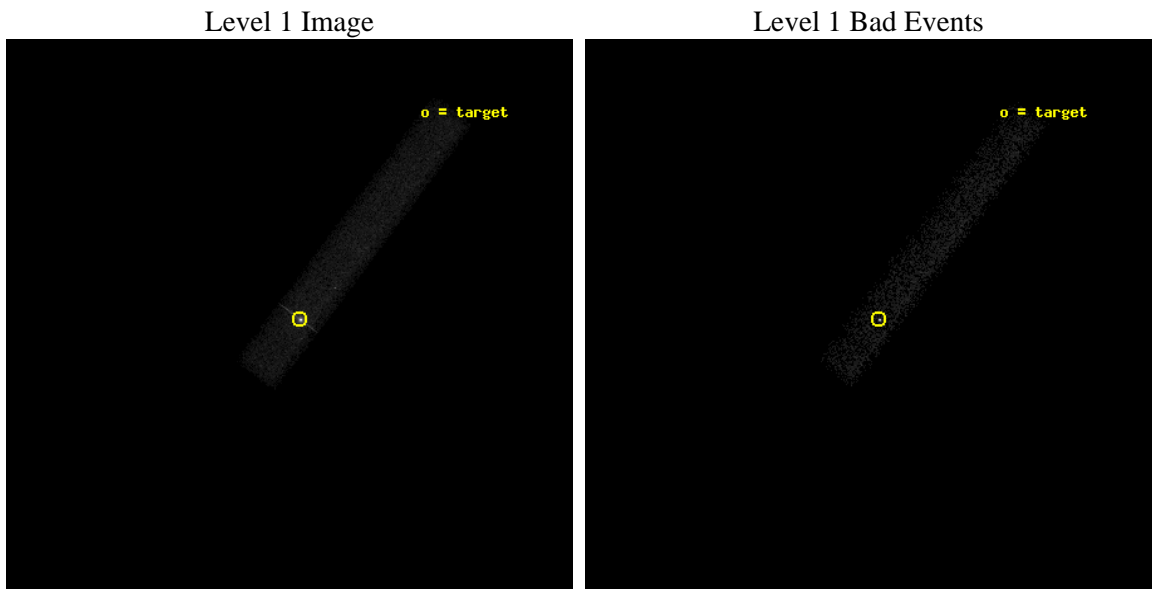
seq_num	702501	Sequence number
obs_id	12868	Observation id
title	Chandra Survey of Hard X-ray Selected Merging AGN Hosts	Proposal t
observer	Dr. Richard Mushotzky	Principal investigator
object	Mrk 1018	Source name
dtycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	31.567083	Observer's specified target RA [deg]
dec_targ	-0.291	Observer's specified target Dec [deg]
ra_nom	31.571595837378	Nominal RA [deg]
dec_nom	-0.29276565068249	Nominal Dec [deg]
roll_nom	307.02168961546	Nominal Roll [deg]
revision	3	Processing version of data
ontime	25009.598509312	Sum of GTIs [s]
livetime	22682.385733096	Livetime [s]
ontime7	25009.598509312	Sum of GTIs [s]
l2events	54609	Number of level 2 events



## 2 OBI

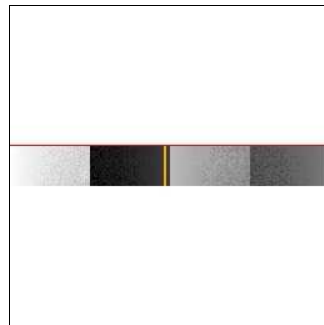
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	25000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	25009.598509312	Sum of GTIs [s]
caldbver	4.5.0	&#160	ontime7	25009.598509312	Sum of GTIs [s]
date	2012-07-09T13:51:24	Date and time of file creation	l1events	78886	Number of level 1 events
revision	3	Processing version of data			

### 2.1.4 Events

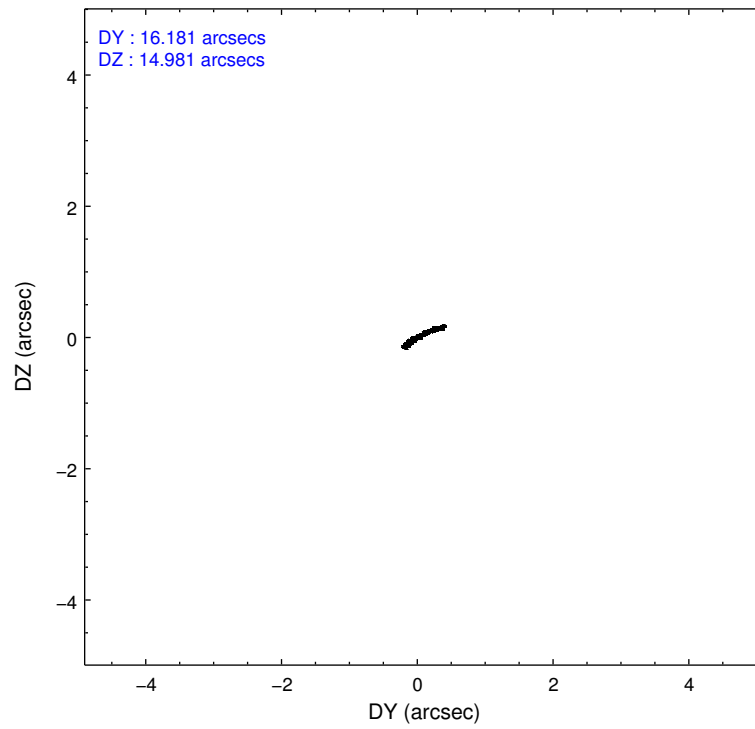
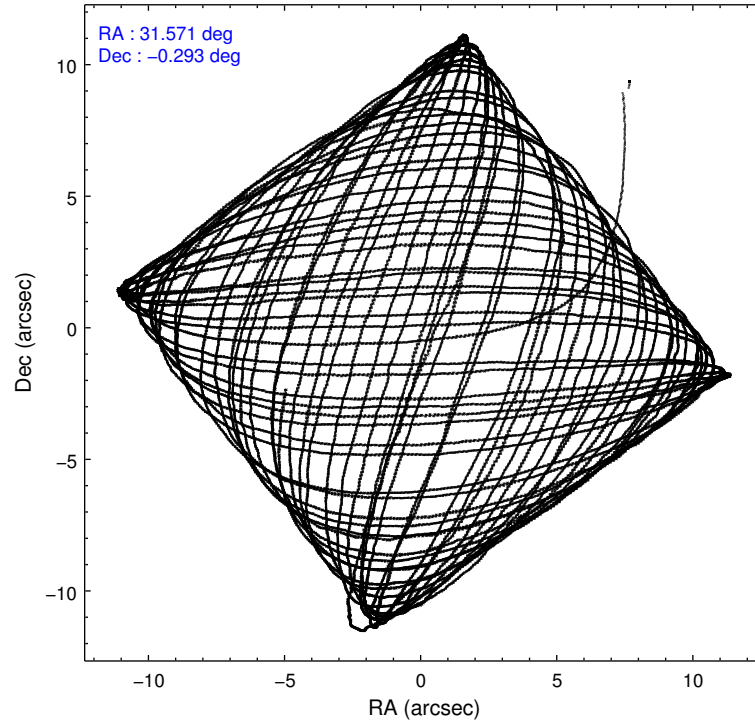
	<b>ccd 7</b>
level 1 events	78886
rejected events	23571
rejected %	29%

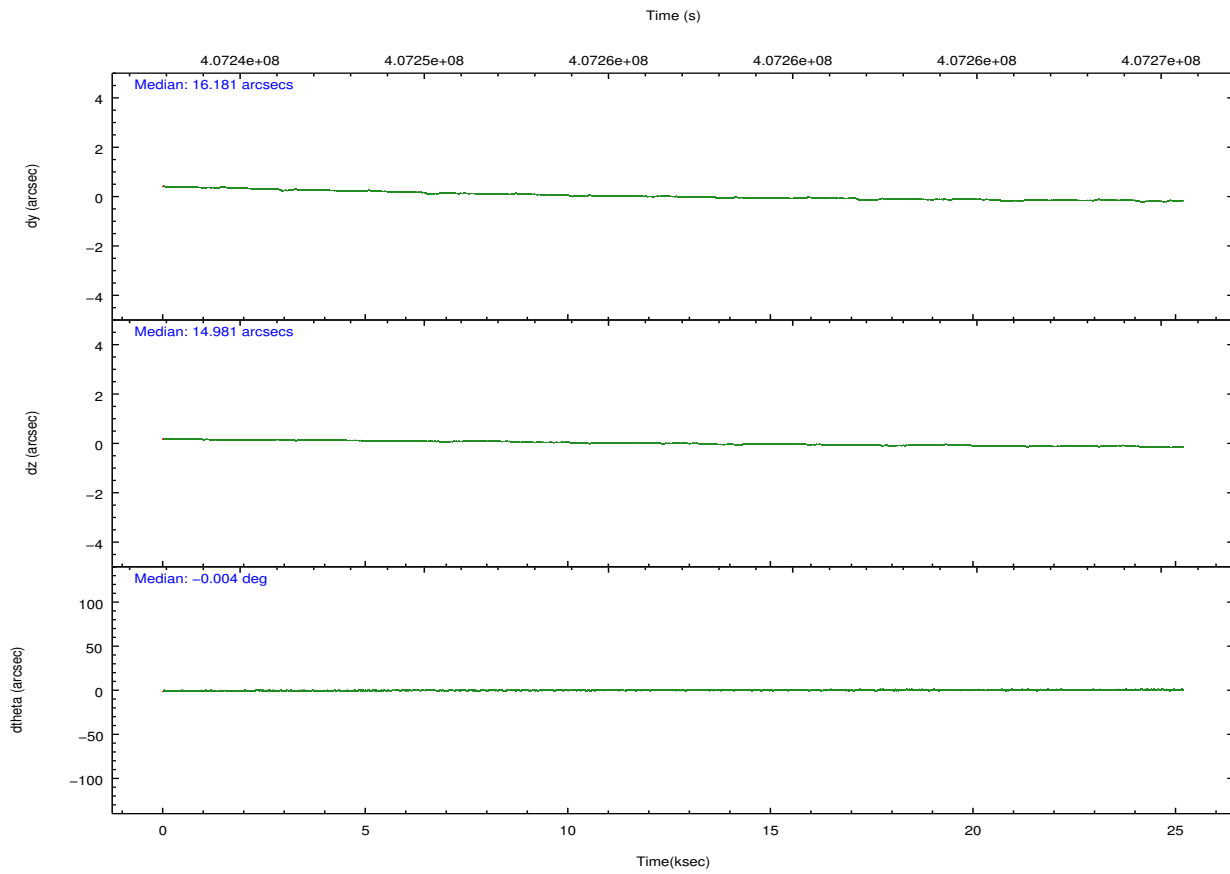
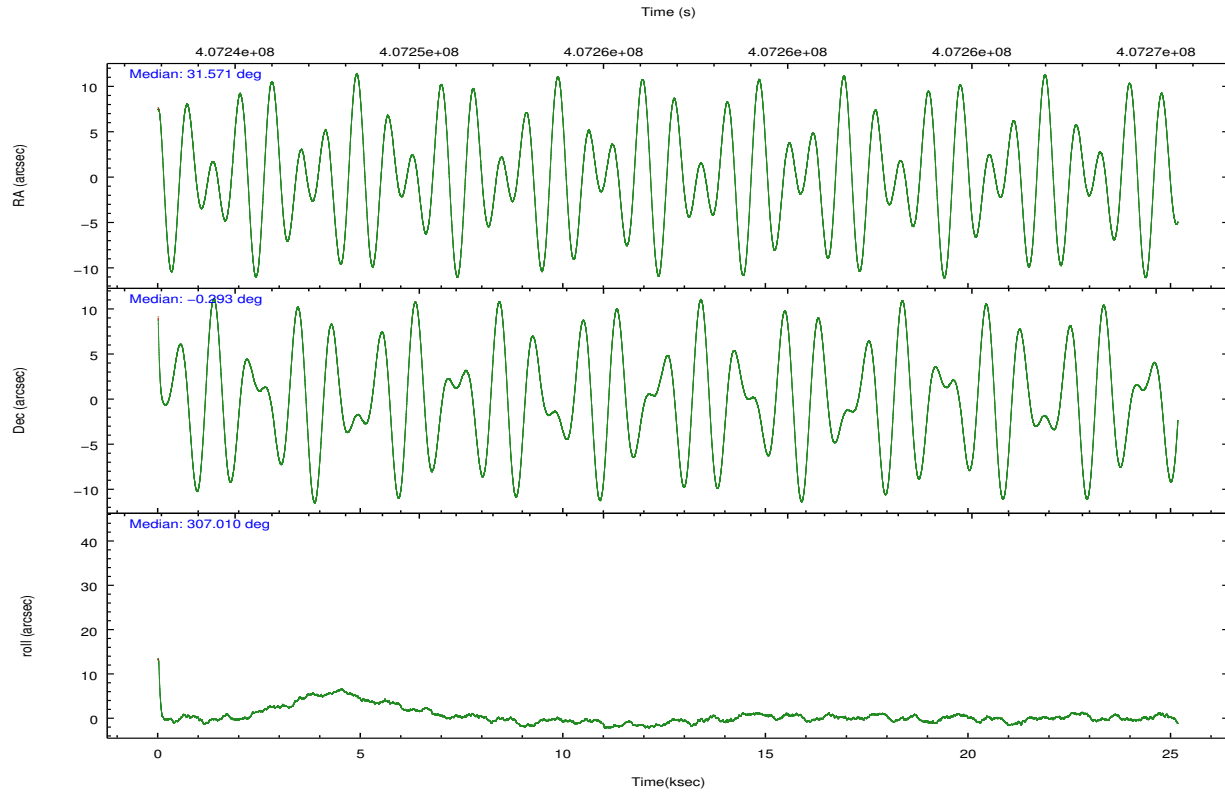
	<b>ccd 7</b>
grade 0 events	11012
	13%
grade 1 events	841
	1%
grade 2 events	12700
	16%
grade 3 events	6468
	8%
grade 4 events	6175
	7%
grade 5 events	6418
	8%
grade 6 events	18964
	24%
grade 7 events	16308
	20%

## 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	31.546284	31.57159583737838	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	-0.282427	-0.2927656506824922	Subarray start row	449	449
[deg] Pointing Roll	306.864923	307.0216896154631	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	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	407244343.184000	407243224.48113			
Observation start date	2010-11-27T11:24:37	2010-11-27T11:07:04			
[s] Observation end time (MET)	407269343.184000	407270048.73252			
Observation end date	2010-11-27T18:21:17	2010-11-27T18:34:08			
Read mode	TIMED	TIMED			

## 2.3 Aspect



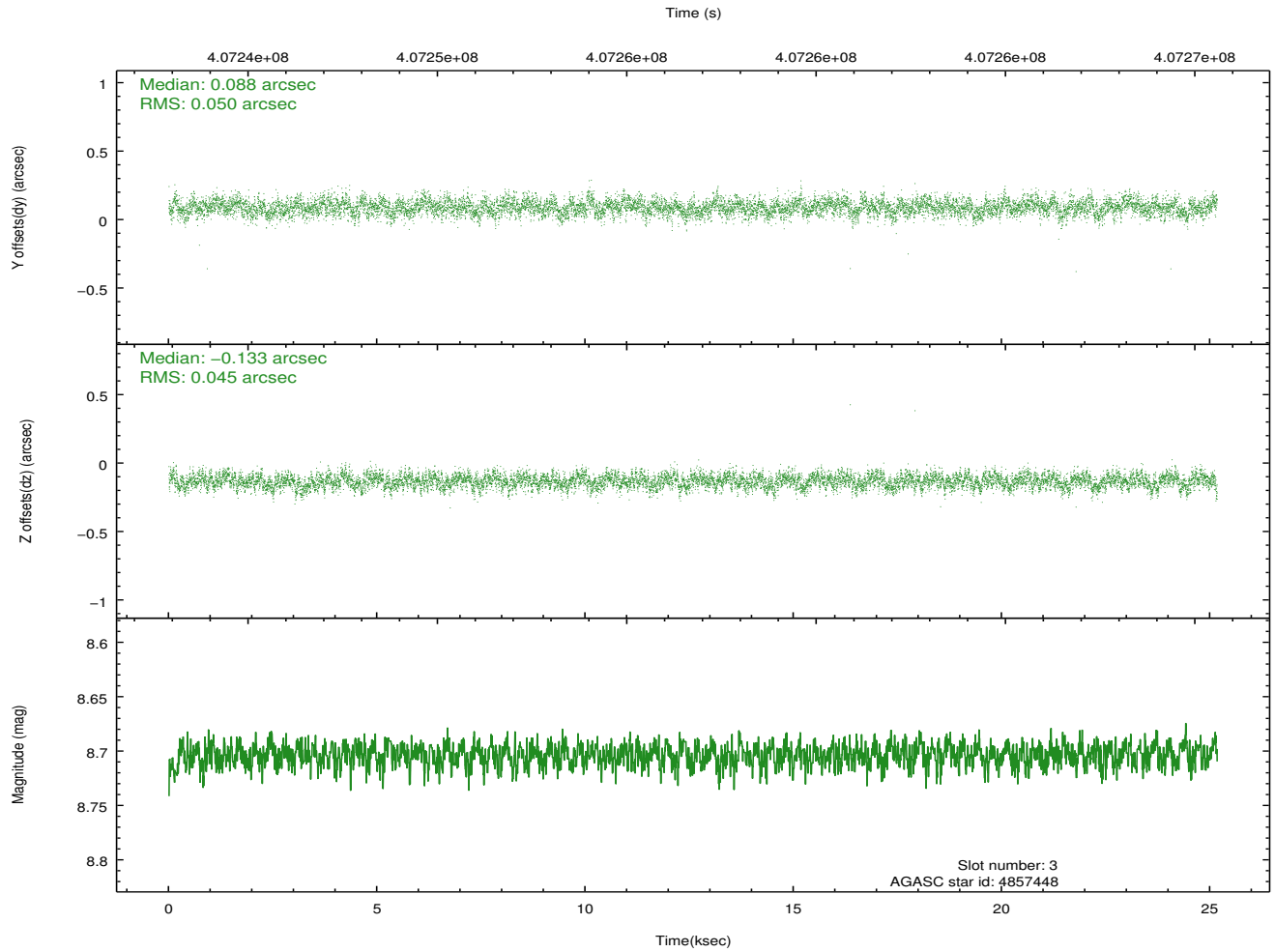
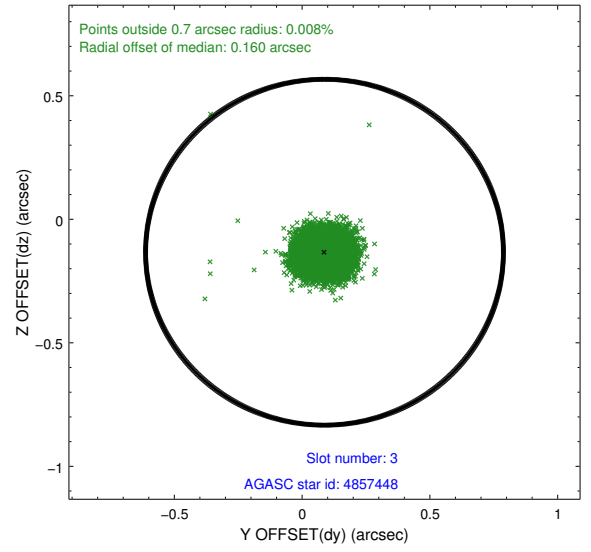
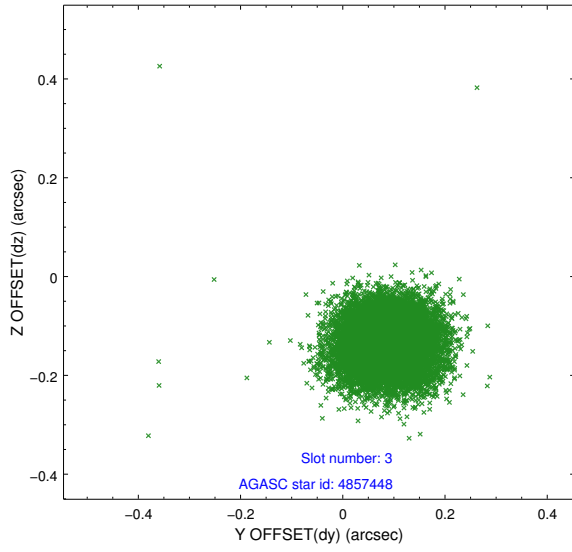


### Slot Statistics

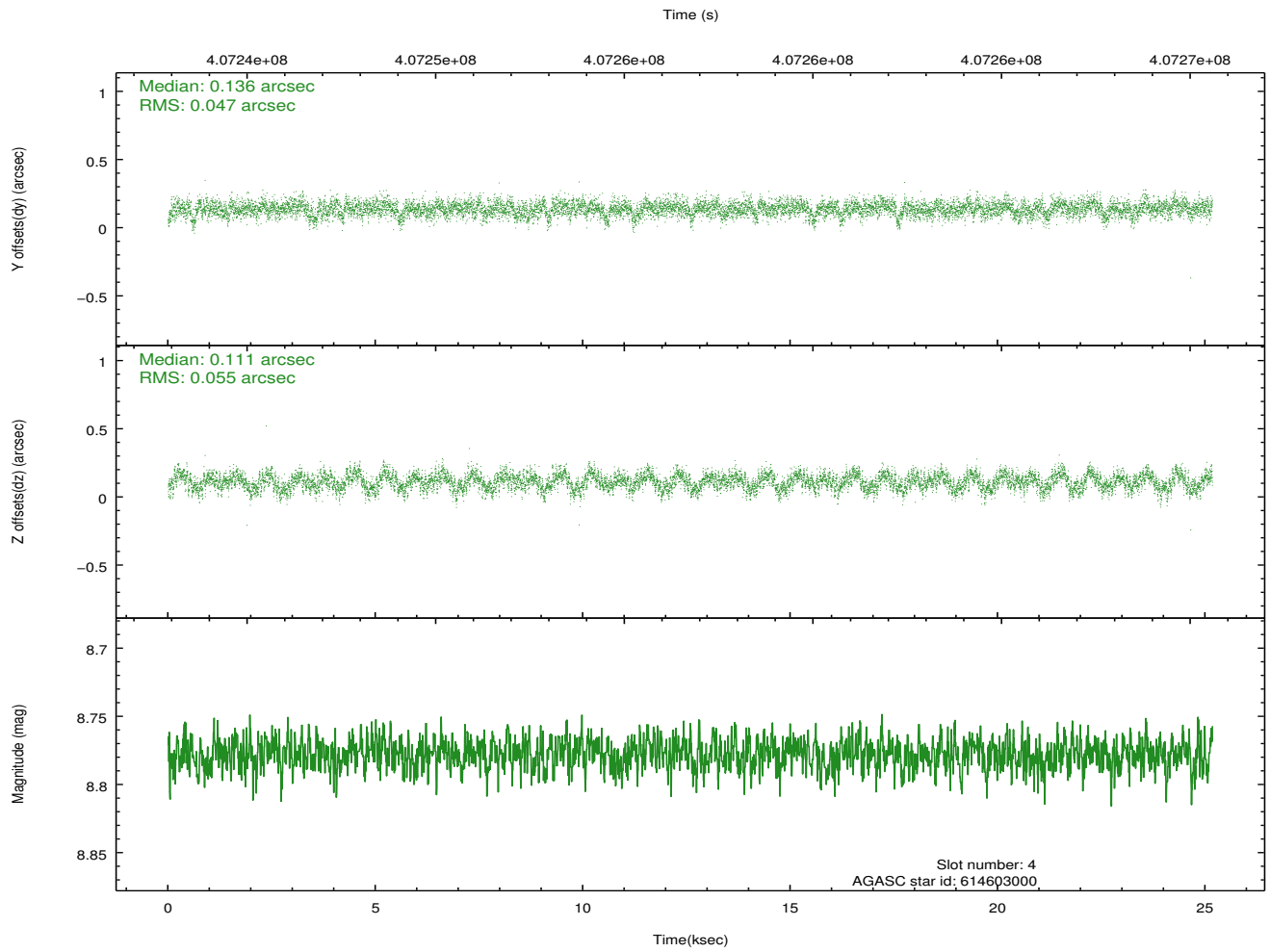
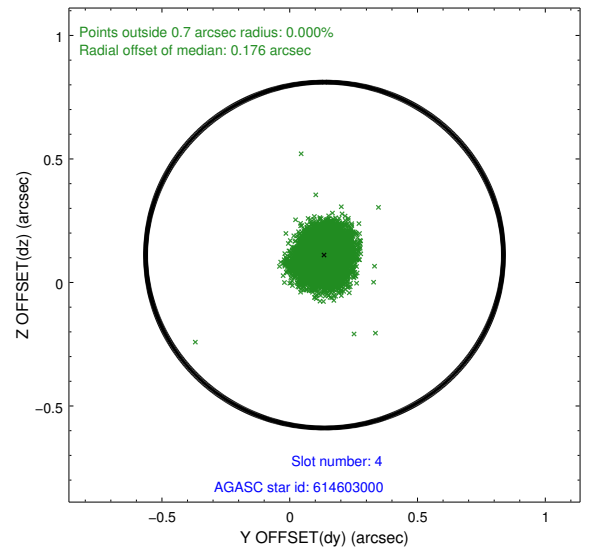
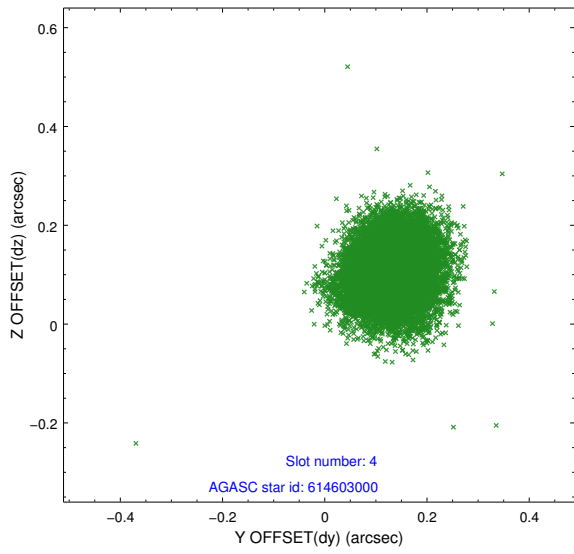
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.98	6139	-0.111	-0.048	0.007	0.012	0.000000	0.000000	-769.31	-1736.37
1	FID	ACIS-S-4	7.06	6138	0.229	0.066	0.006	0.011	0.000000	0.000000	2144.23	172.13
2	FID	ACIS-S-5	7.09	6140	-0.149	-0.009	0.007	0.012	0.000000	0.000000	-1822.06	165.82
3	GUIDE	4857448	8.70	12271	0.088	-0.133	0.070	0.115	31.329717	0.322843	-2210.69	683.55
4	GUIDE	614603000	8.78	12275	0.136	0.111	0.077	0.123	31.292832	-0.000879	-1357.93	-121.39
5	GUIDE	614603456	8.86	12275	-0.050	0.087	0.079	0.127	30.926579	-0.024024	-2082.15	-1226.47
6	GUIDE	614605504	7.28	12278	-0.175	-0.062	0.071	0.120	32.113697	-0.419301	1619.47	1339.68
7	OMITTED		0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00

## 2.4 Star Slots

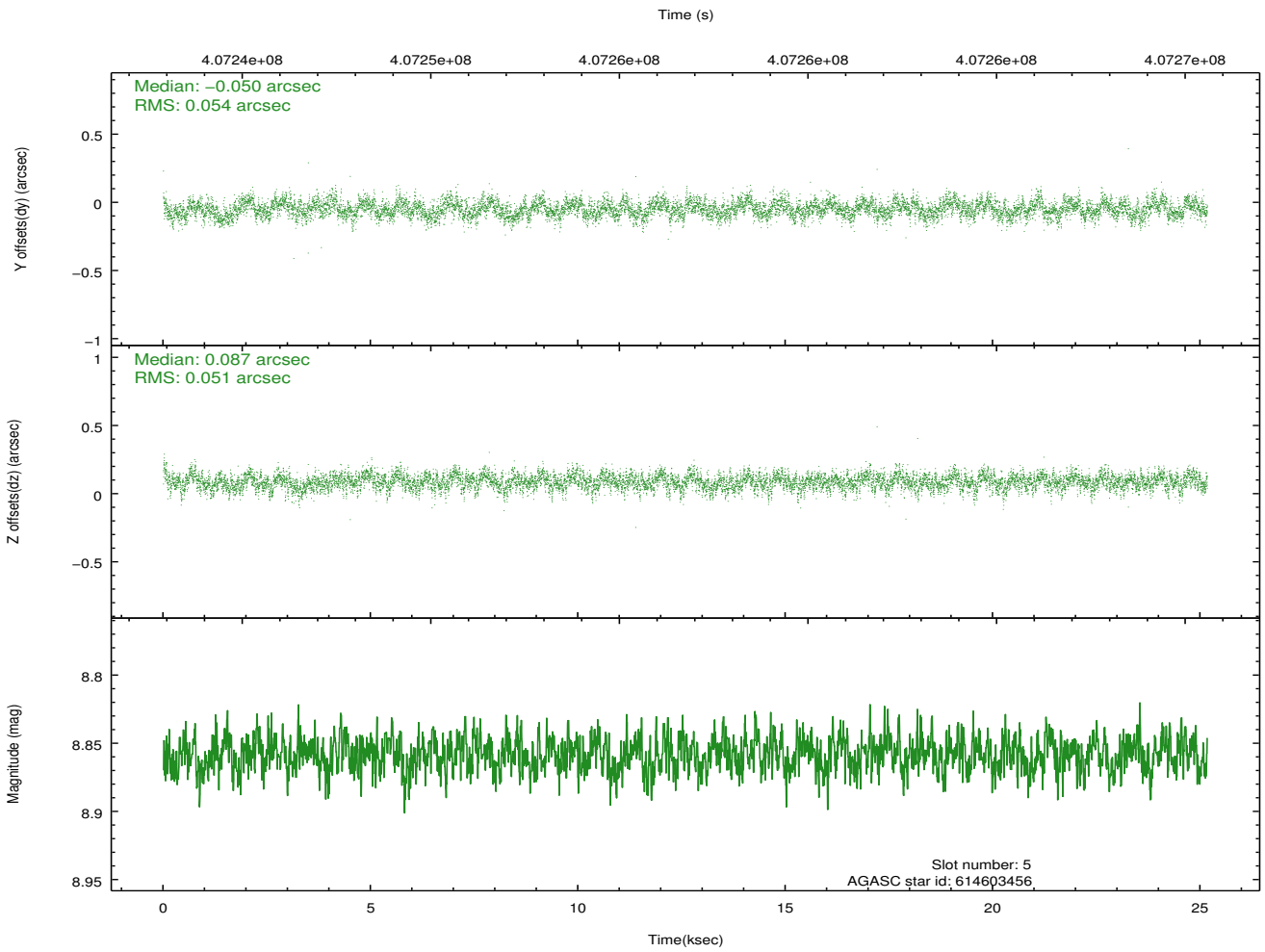
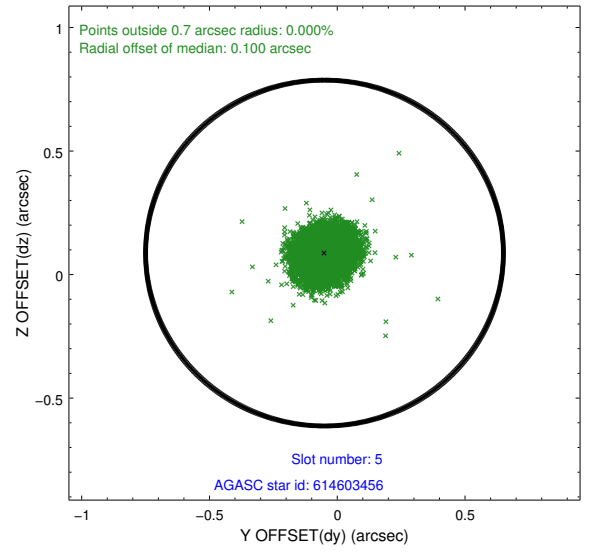
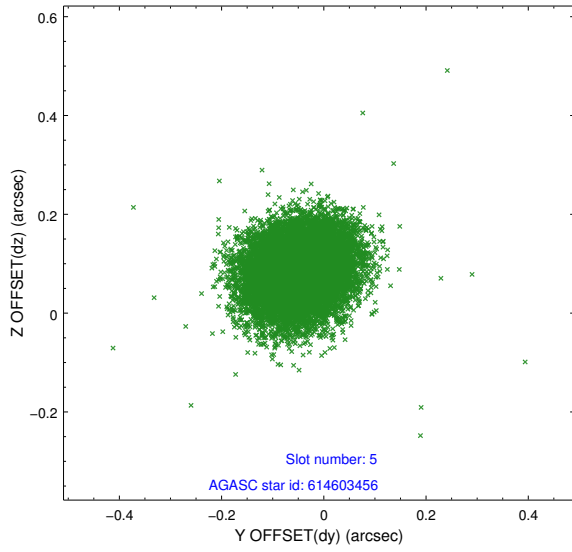
### 2.4.1 Slot 3



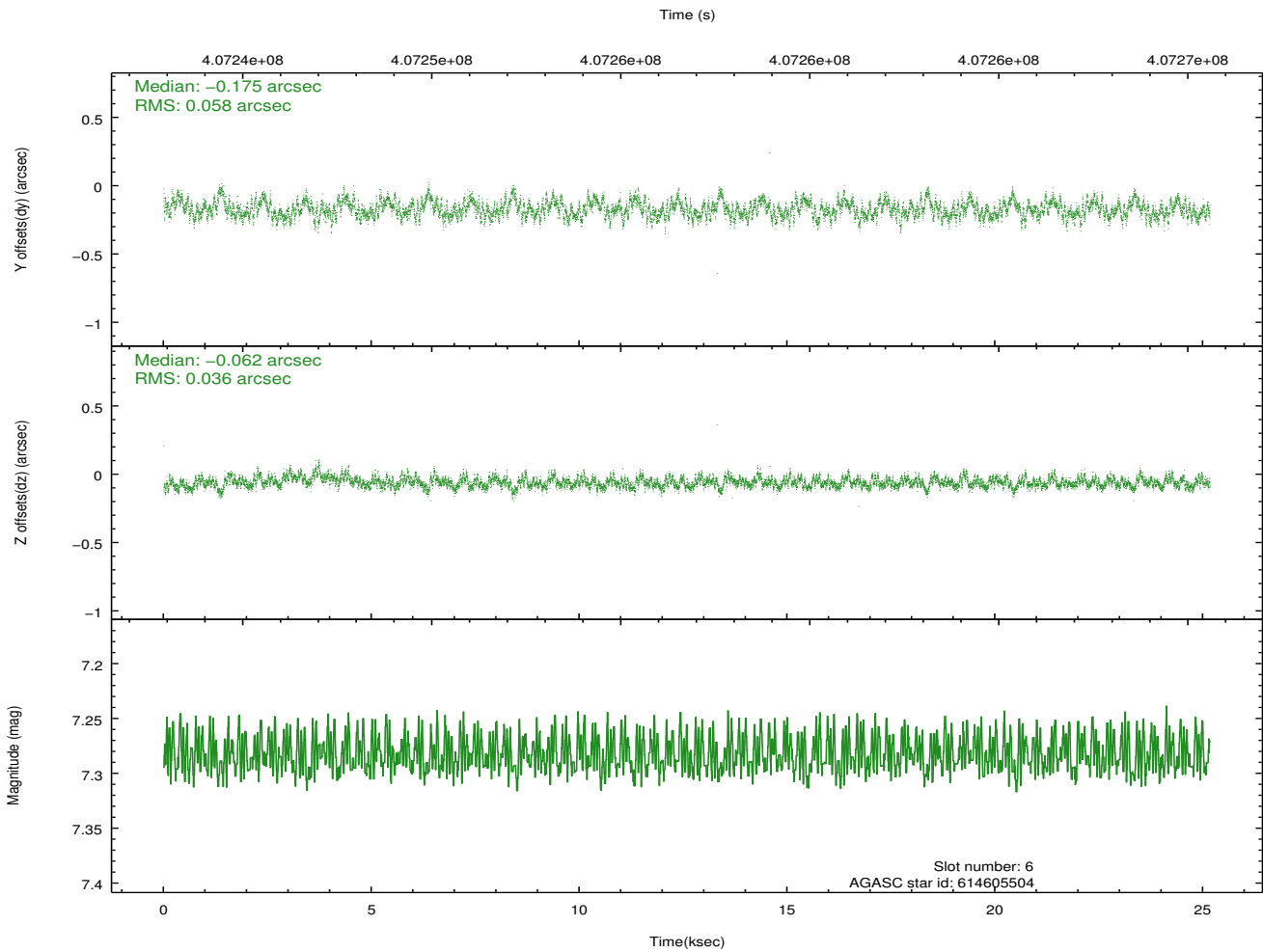
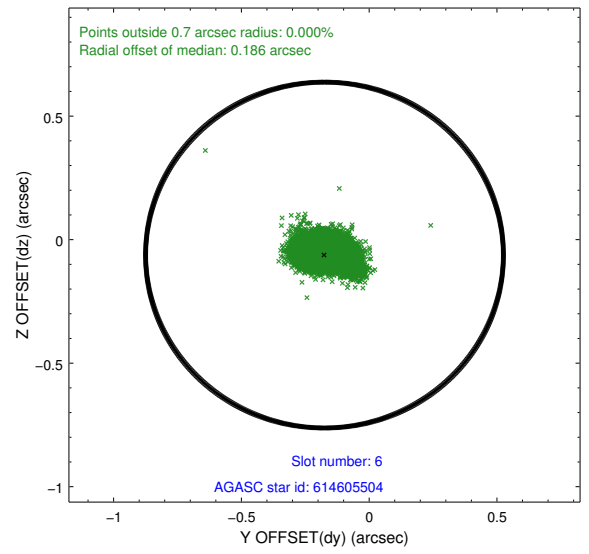
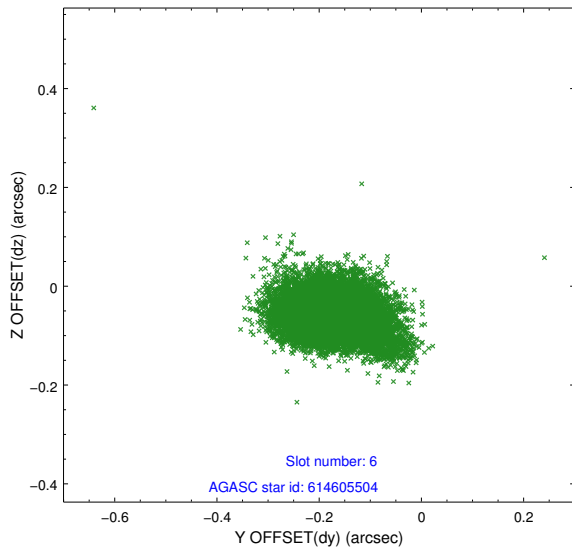
### 2.4.2 Slot 4



### 2.4.3 Slot 5

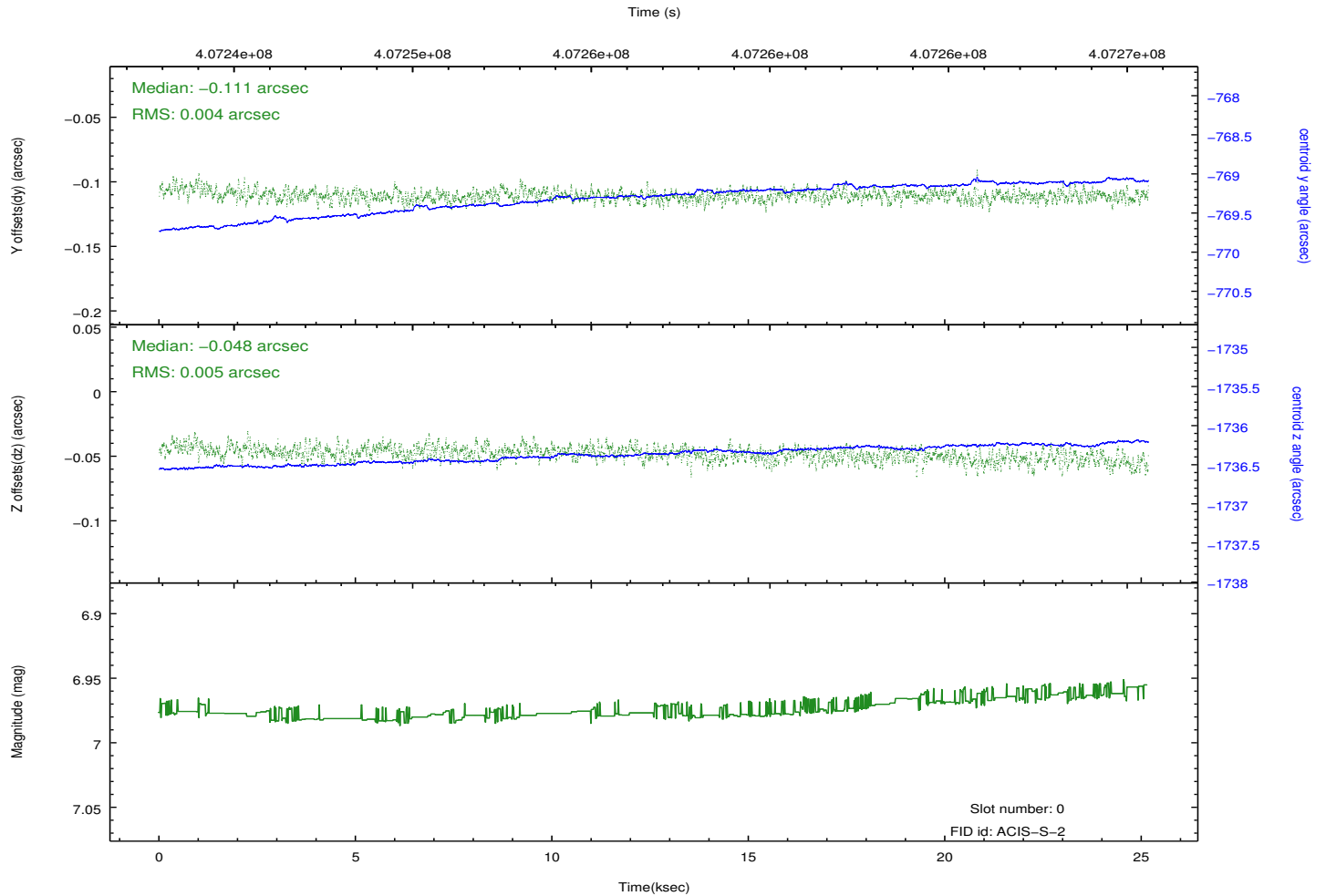
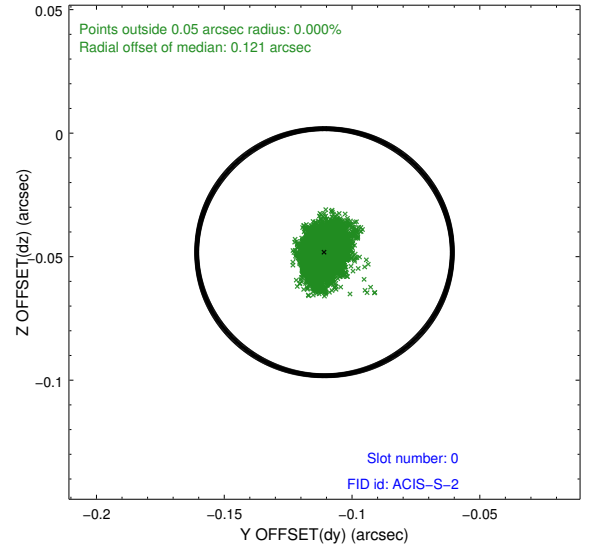
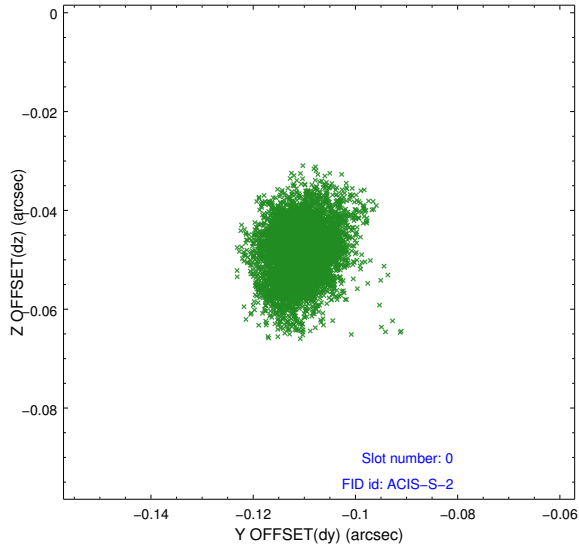


## 2.4.4 Slot 6

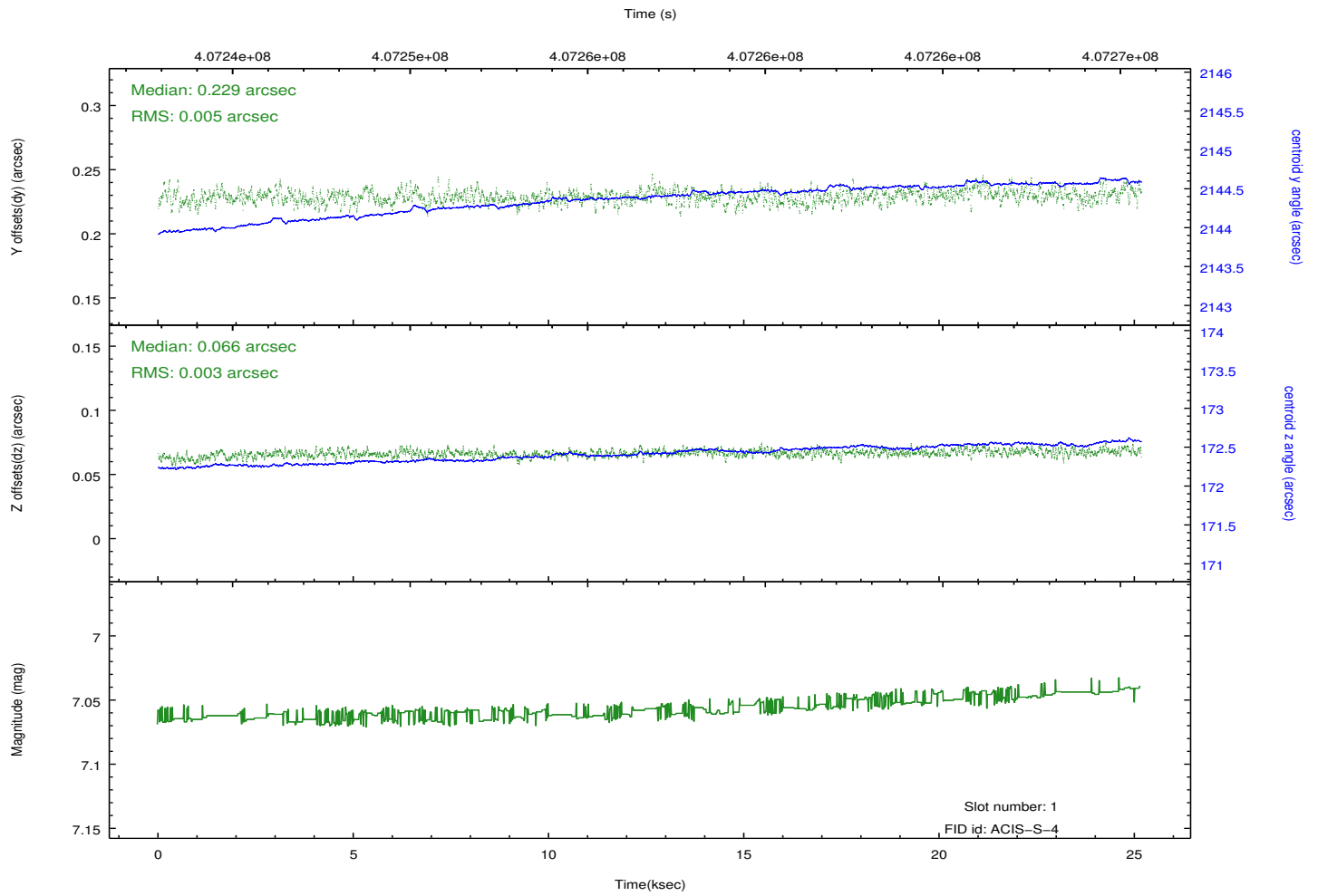
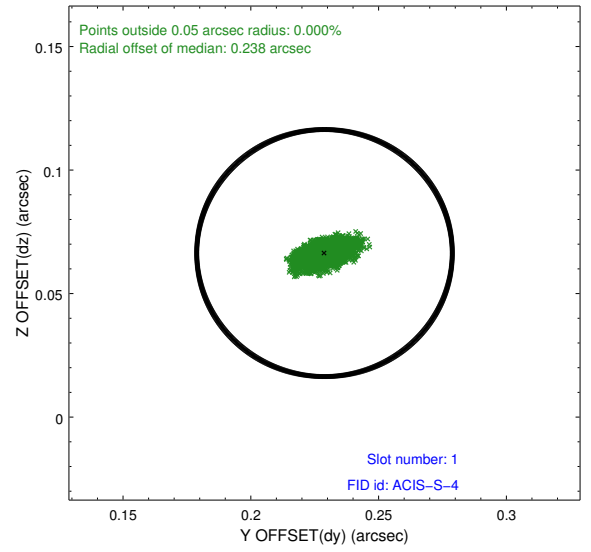
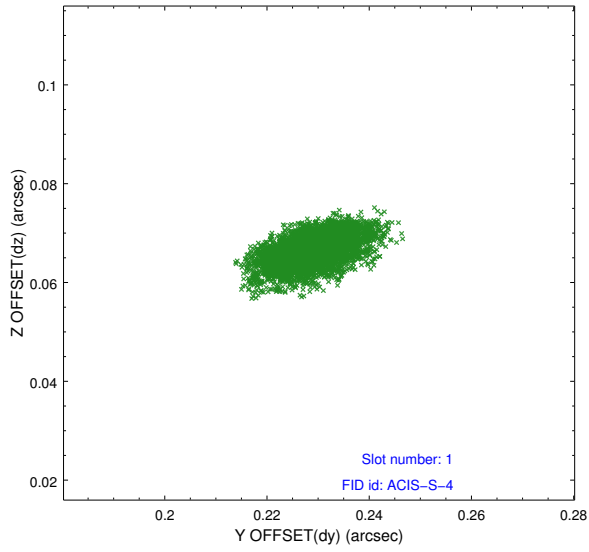


## 2.5 FID Slots

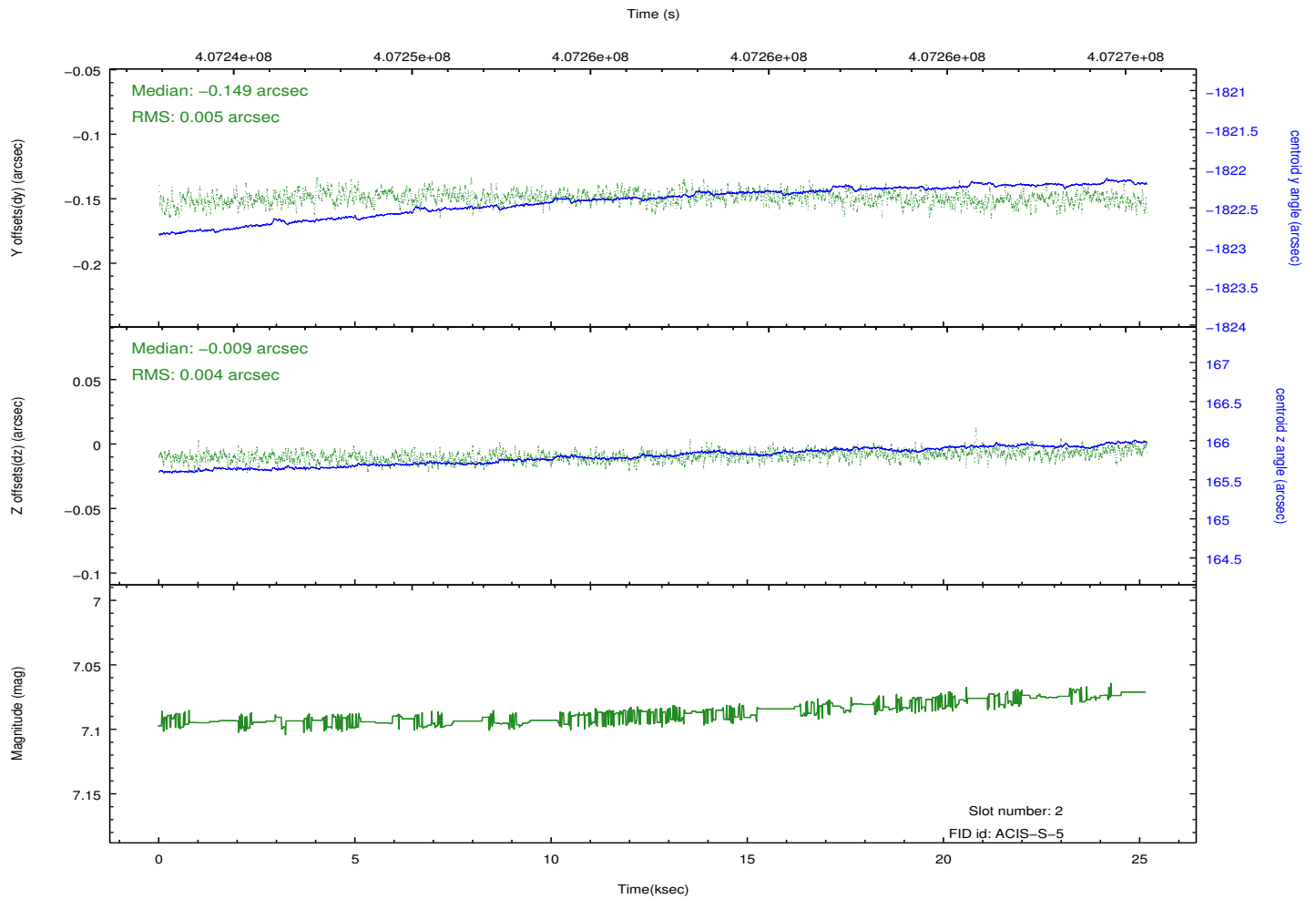
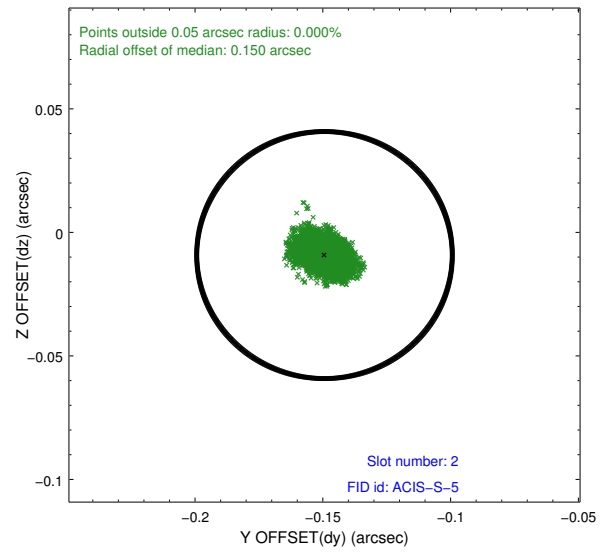
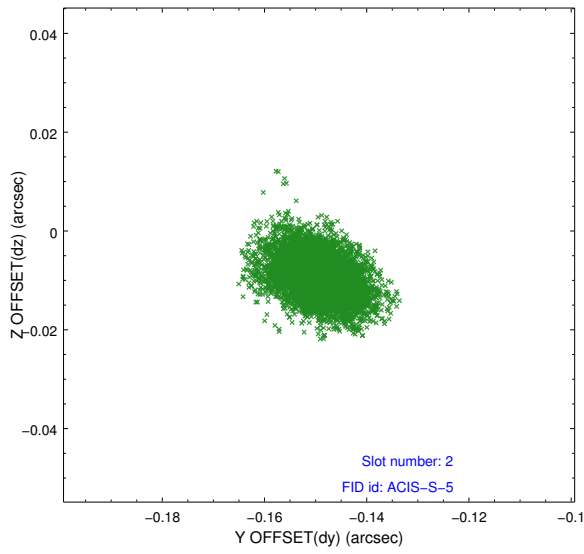
### 2.5.1 Slot 0



## 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)	2012.07.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	25.009598509312

## A.2 Comments

The guide star in slot 7 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this star from the solution.