

# V&V Reference Report

## L2 ASCDS Version : 8.4.3.1

Observation 7051 - L2 Version 2  
Chandra X-Ray Center

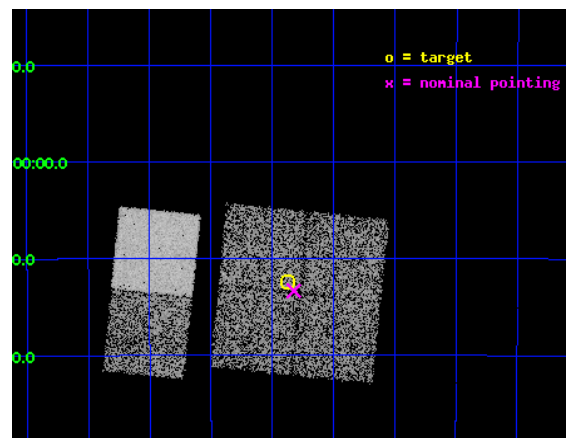
L2 Processing Date : Apr 6 2012

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# 1 Front

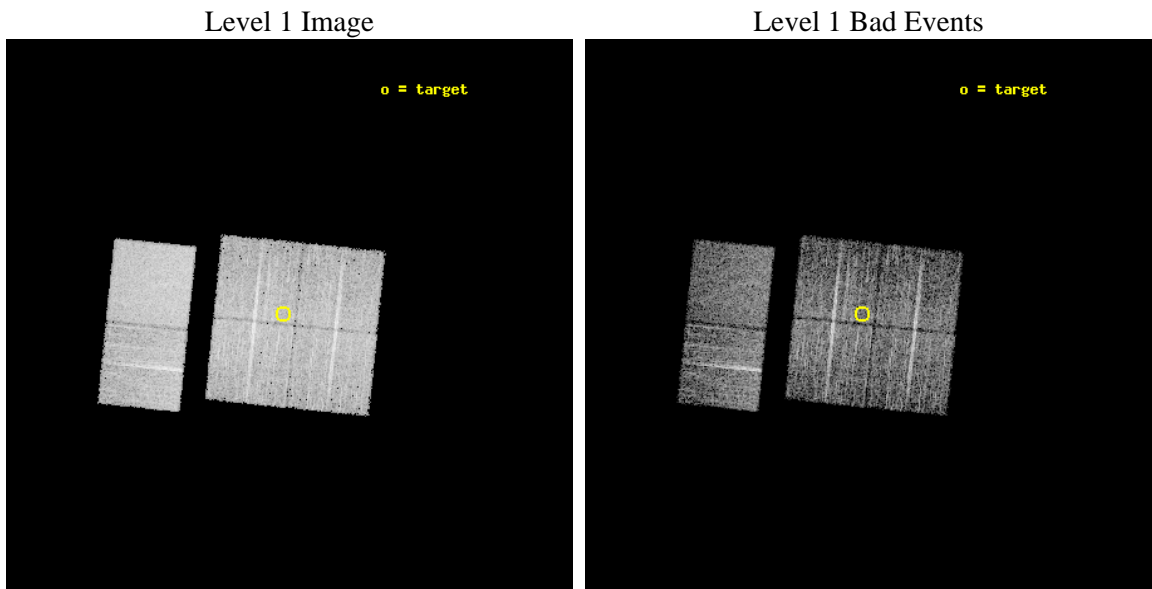
seq_num	900467	Sequence number
obs_id	7051	Observation id
title	A SMALL CHANDRA SURVEY OF HARD X-RAY SOURCES IN GAMMA-RAY ERROR BOXES	Proposal title
observer	Dr. Mallory Roberts	Principal investigator
object	AX J1733.9-3112	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	263.467917	Observer's specified target RA [deg]
dec_targ	-31.206944	Observer's specified target Dec [deg]
ra_nom	263.45583575672	Nominal RA [deg]
dec_nom	-31.222383758425	Nominal Dec [deg]
roll_nom	275.86256909586	Nominal Roll [deg]
revision	2	Processing version of data
ontime	4629.1444997787	Sum of GTIs [s]
livetime	4570.5274847864	Livetime [s]
ontime0	4629.0213797688	Sum of GTIs [s]
ontime1	4629.0624197721	Sum of GTIs [s]
ontime2	4629.1034597754	Sum of GTIs [s]
ontime3	4629.1444997787	Sum of GTIs [s]
ontime6	4629.2265797853	Sum of GTIs [s]
ontime7	4629.185539782	Sum of GTIs [s]
l2events	45778	Number of level 2 events



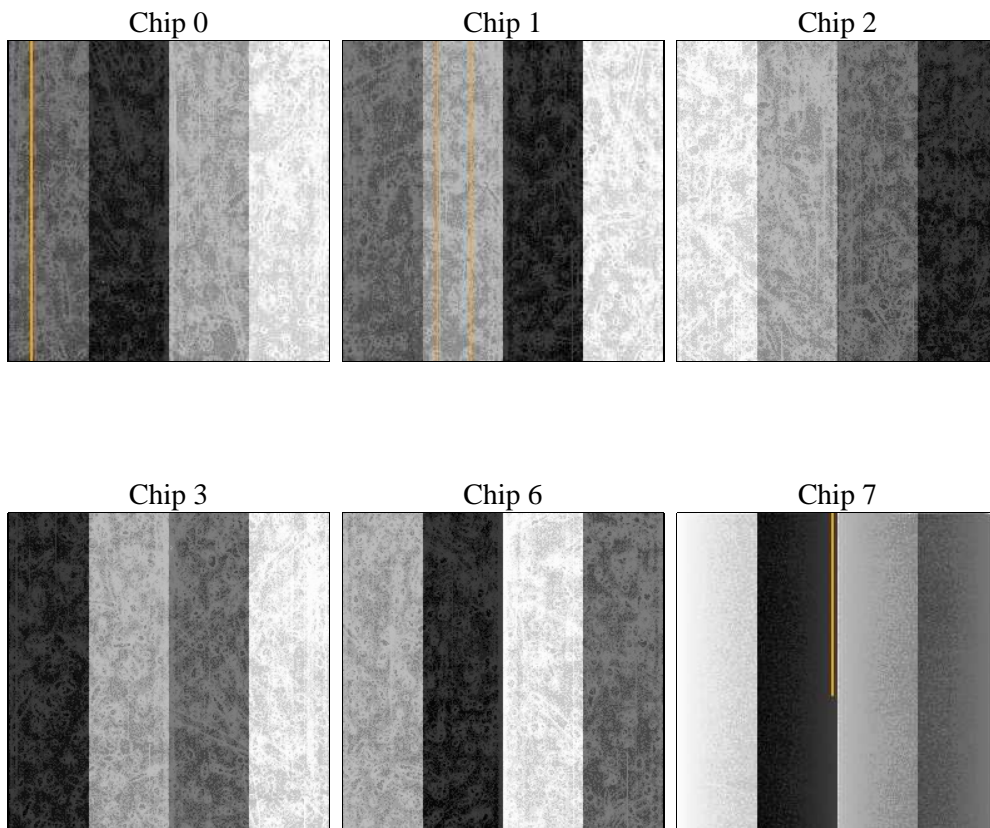
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	4647.303000	[s] Scheduled observation exposure time
ascdsver	8.4.3.1	Processing system revision	ontime	4629.1444997787	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime0	4629.0213797688	Sum of GTIs [s]
date	2012-04-06T03:10:07	Date and time of file creation	ontime1	4629.0624197721	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	4629.1034597754	Sum of GTIs [s]
			ontime3	4629.1444997787	Sum of GTIs [s]
			ontime6	4629.2265797853	Sum of GTIs [s]
			ontime7	4629.185539782	Sum of GTIs [s]
			l1events	258552	Number of level 1 events

### 2.1.4 Events

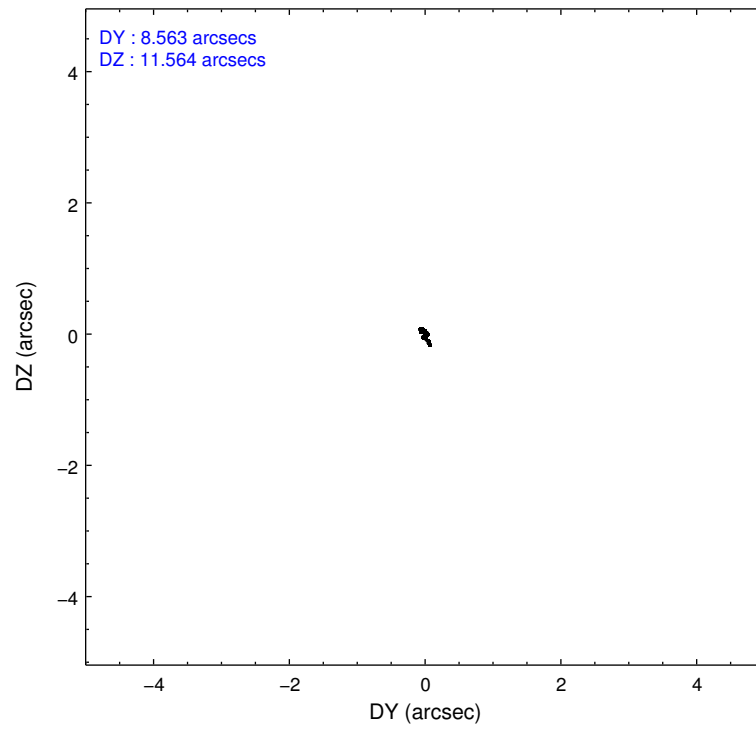
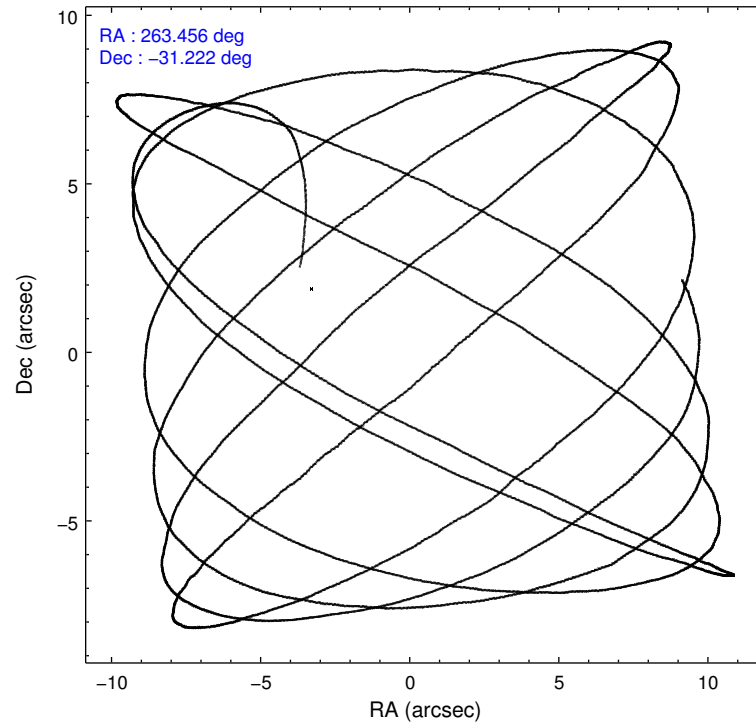
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	39939	37660	42897	38790	42799	56467	grade 0 events	2285	2268	2304	2427	2165	2157
rejected events	34701	32054	37739	33527	37630	33017		5%	6%	5%	6%	5%	3%
rejected %	86%	85%	87%	86%	87%	58%	grade 1 events	25	28	30	31	28	55
								0%	0%	0%	0%	0%	0%
							grade 2 events	1150	1253	1113	999	1070	4606
								2%	3%	2%	2%	2%	8%
							grade 3 events	459	558	475	511	470	2130
								1%	1%	1%	1%	1%	3%
							grade 4 events	461	512	457	487	480	1991
								1%	1%	1%	1%	1%	3%
							grade 5 events	1671	1819	1546	1900	1986	5352
								4%	4%	3%	4%	4%	9%
							grade 6 events	888	1018	820	844	987	12600
								2%	2%	1%	2%	2%	22%
							grade 7 events	33000	30204	36152	31591	35613	27576
								82%	80%	84%	81%	83%	48%

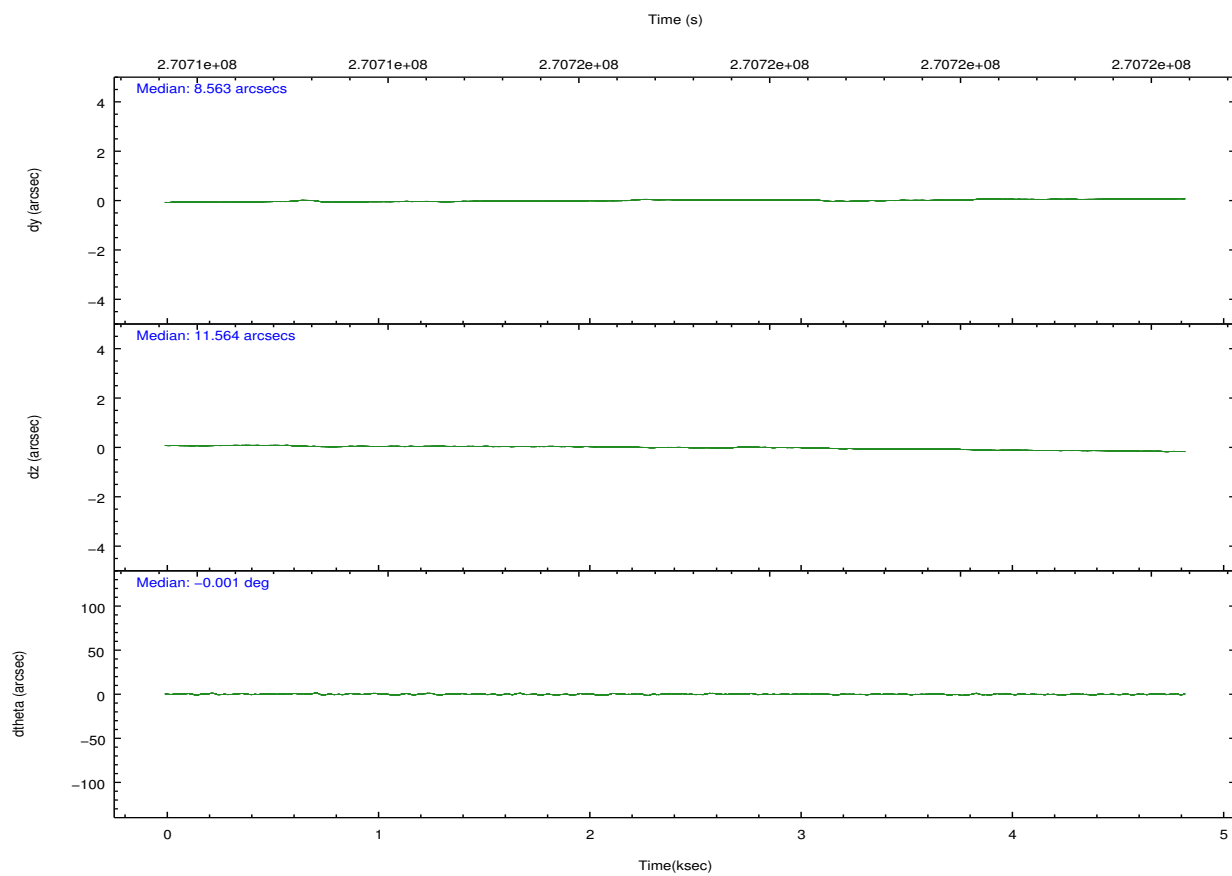
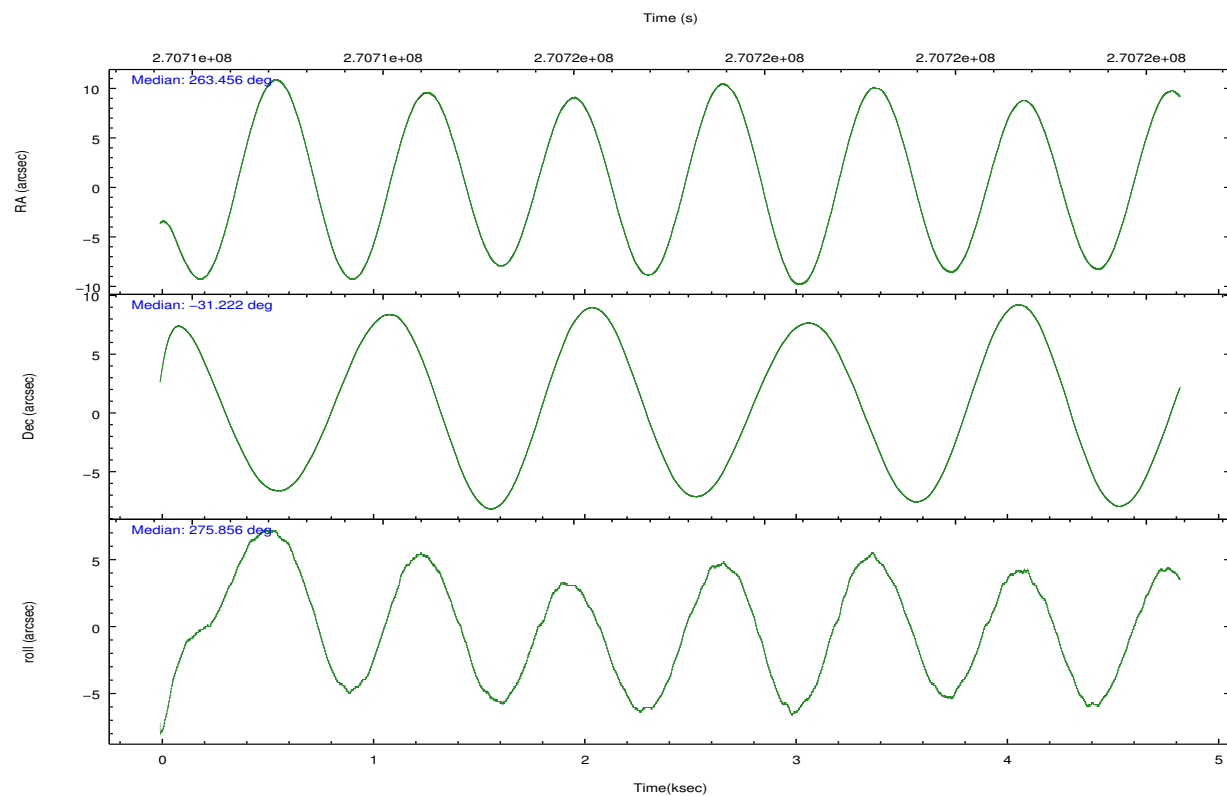


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012367	ACIS-012367	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	263.436982	263.4558357567196	Subarray requested	NONE	NONE
[deg] Pointing Dec	-31.200180	-31.22238375842516	Alternating exposures requested	N	N
[deg] Pointing Roll	275.644118	275.8625690958606	[s] Primary exposure time	0.000000	3.2
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	270713258.184000	270712282.67897			
Observation start date	2006-07-31T06:06:33	2006-07-31T05:51:22			
[s] Observation end time (MET)	270717906.184000	270718145.67925			
Observation end date	2006-07-31T07:24:01	2006-07-31T07:29:05			
Read mode	TIMED	TIMED			

## 2.3 Aspect



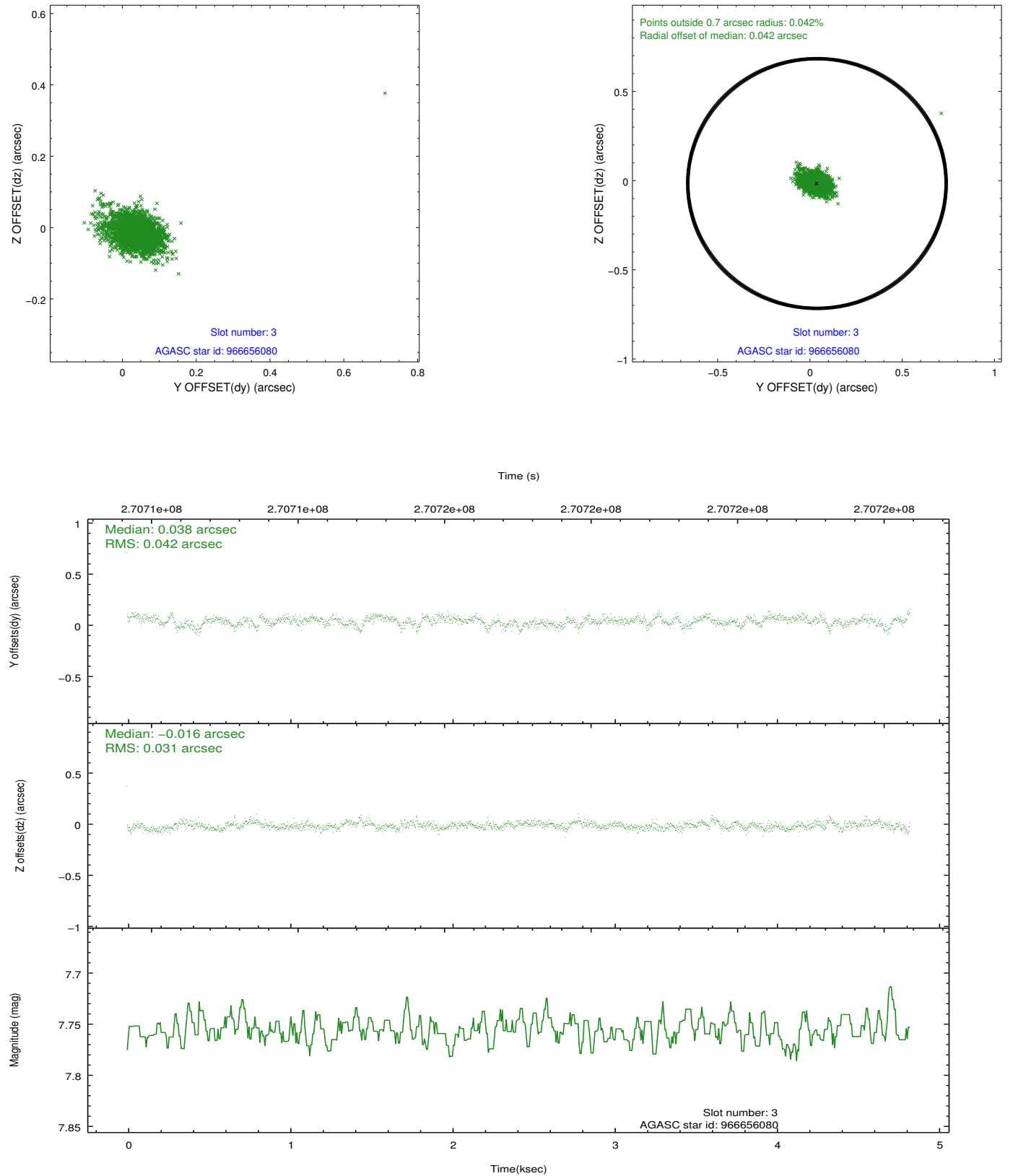


### Slot Statistics

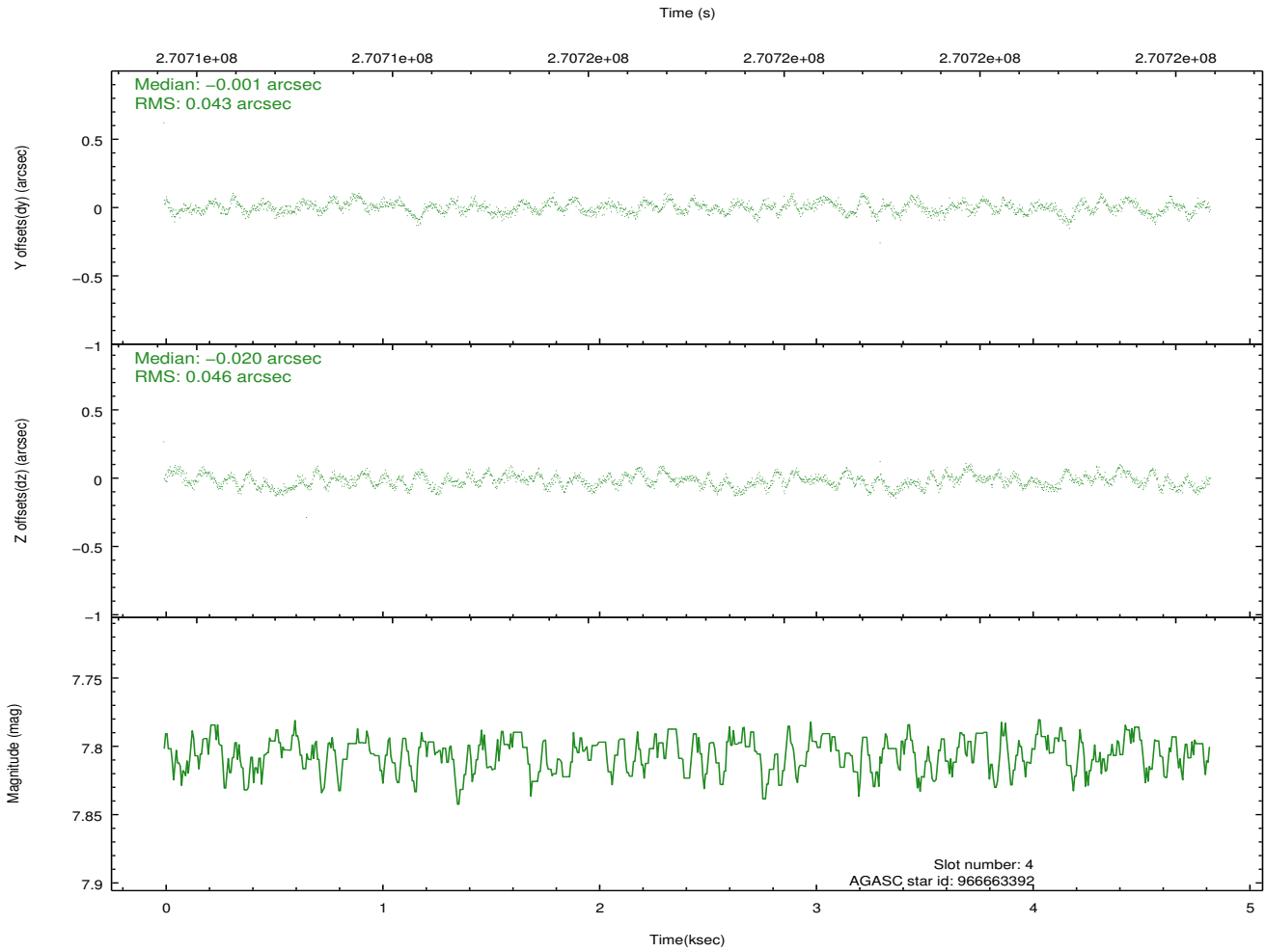
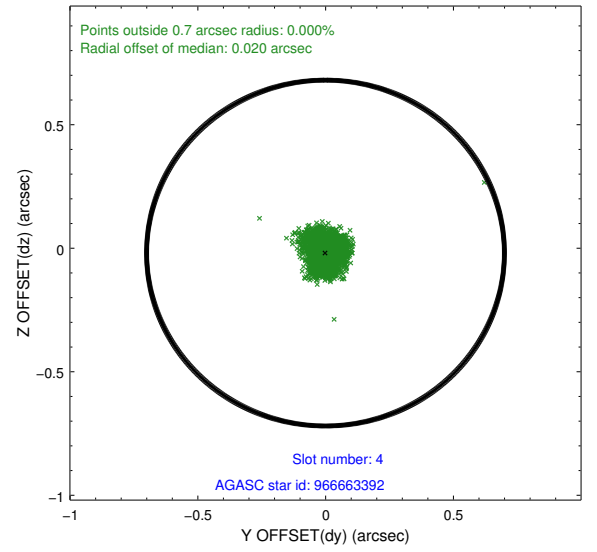
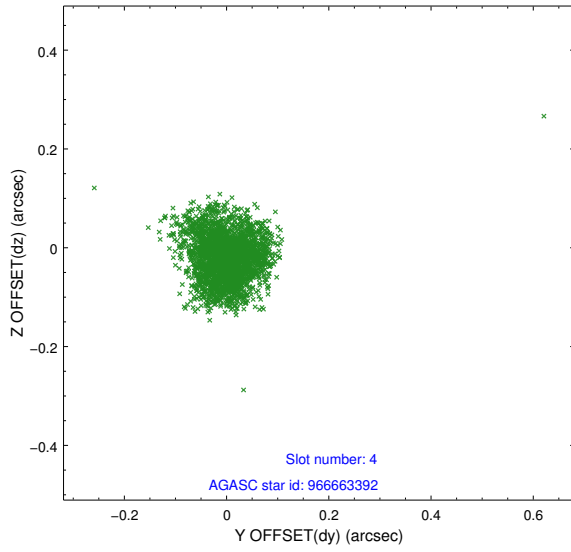
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.24	1178	0.059	-0.055	0.006	0.010	0.000000	0.000000	931.12	-835.13
1	FID	ACIS-I-5	7.23	1178	-0.195	0.060	0.006	0.010	0.000000	0.000000	-1816.51	1061.89
2	FID	ACIS-I-6	7.24	1178	0.044	0.066	0.007	0.012	0.000000	0.000000	395.32	1707.80
3	GUIDE	966656080	7.76	2356	0.038	-0.016	0.051	0.089	262.904712	-31.872685	2253.55	-1857.43
4	GUIDE	966663392	7.81	2356	-0.001	-0.020	0.067	0.103	263.029690	-31.549104	1130.65	-1367.64
5	GUIDE	966787712	8.38	2356	0.111	-0.016	0.059	0.095	263.530944	-31.066254	-450.55	335.39
6	GUIDE	966788496	8.64	2355	-0.063	0.097	0.067	0.106	264.053541	-30.541810	-2165.87	2135.37
7	GUIDE	966787912	8.22	2355	-0.083	-0.045	0.054	0.088	263.385116	-30.640247	-2022.68	39.29

## 2.4 Star Slots

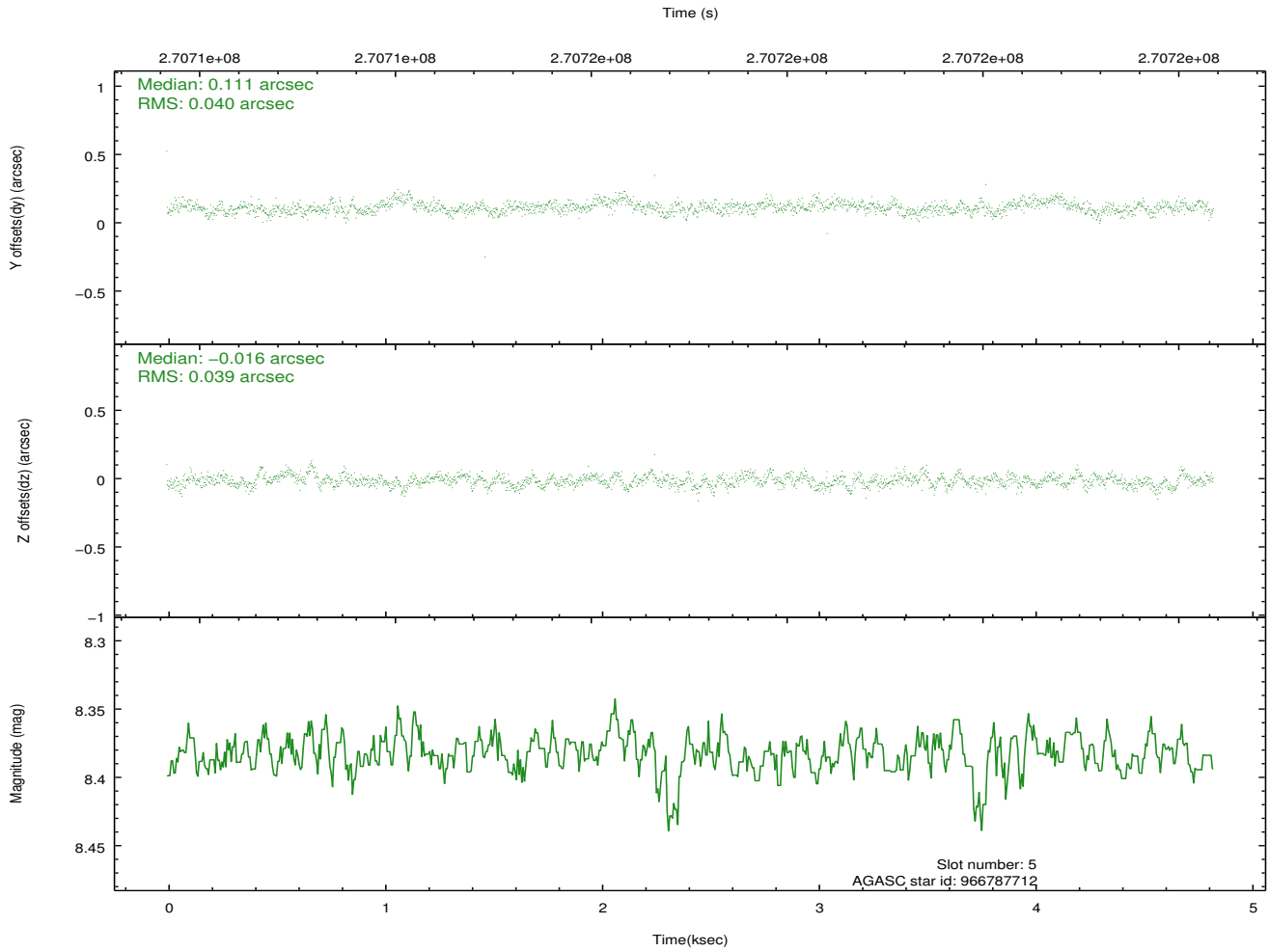
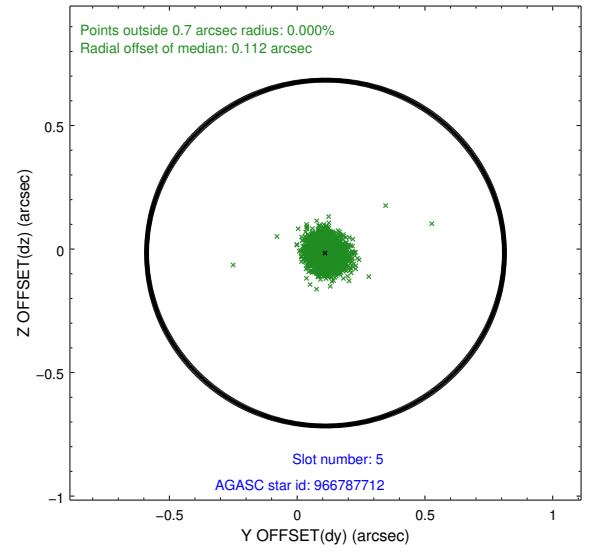
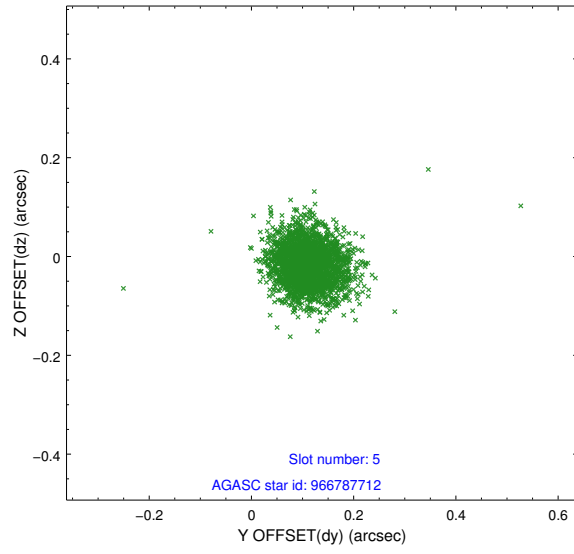
### 2.4.1 Slot 3



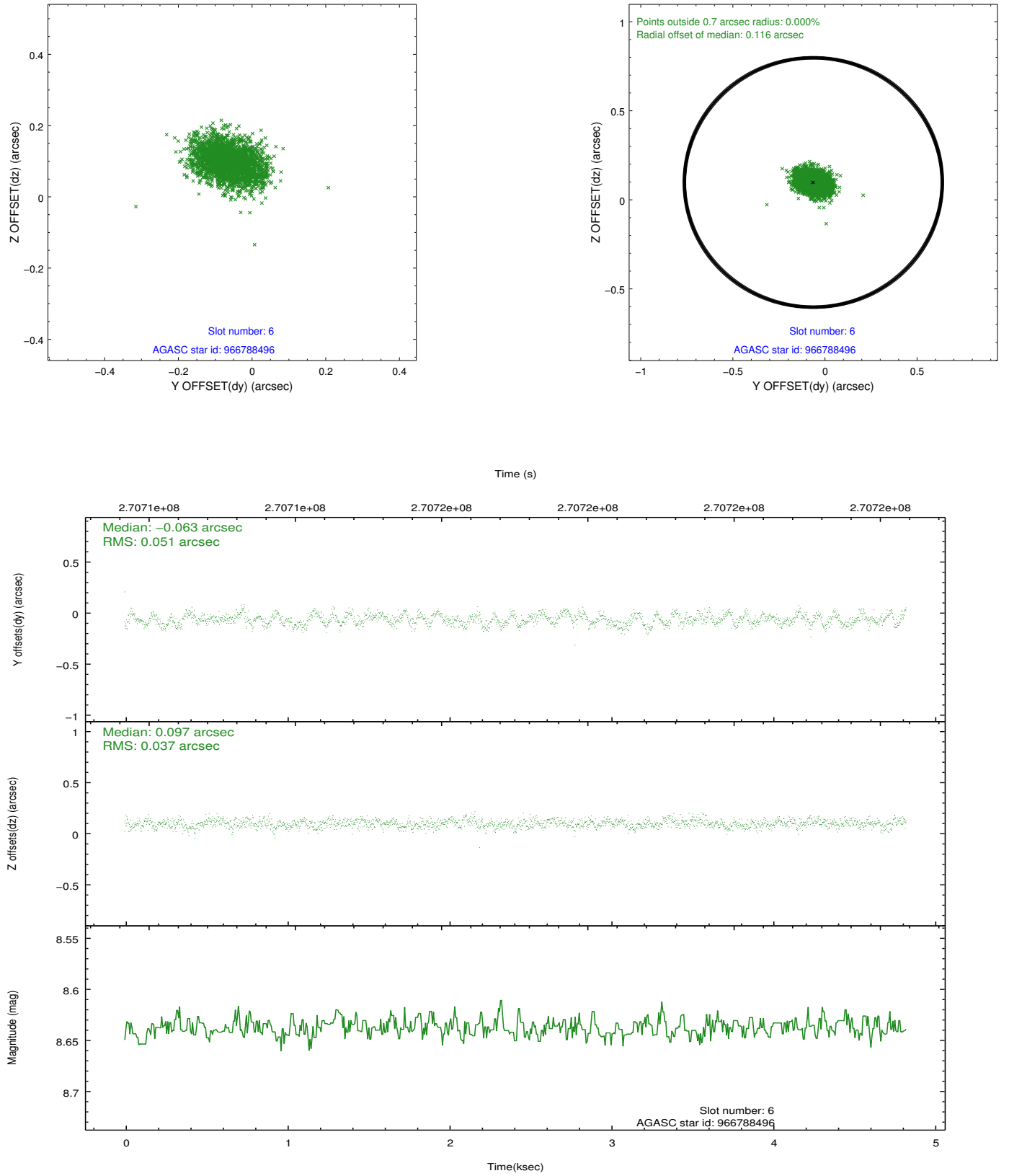
## 2.4.2 Slot 4



### 2.4.3 Slot 5

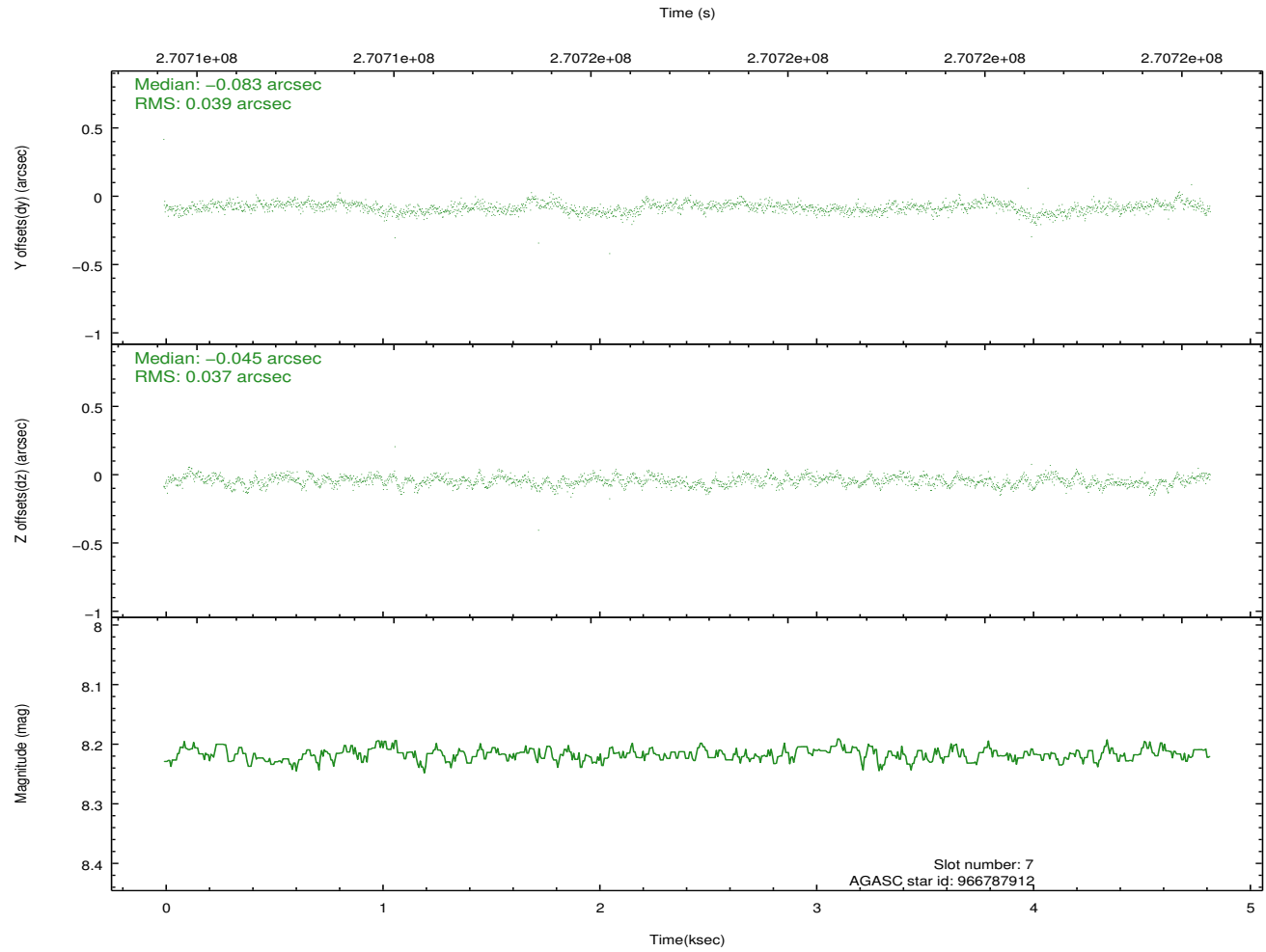
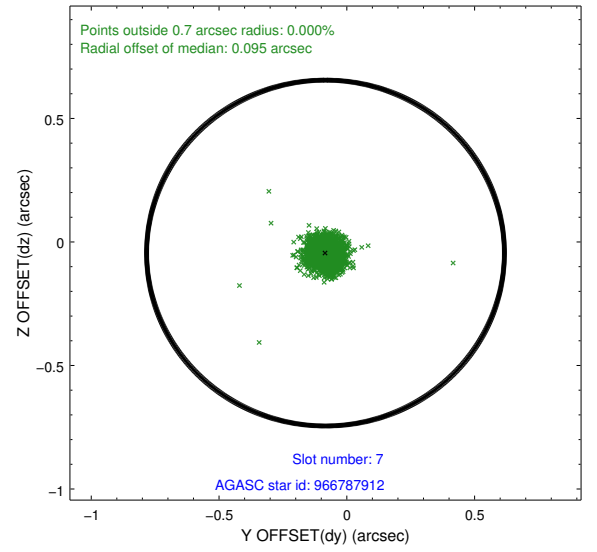
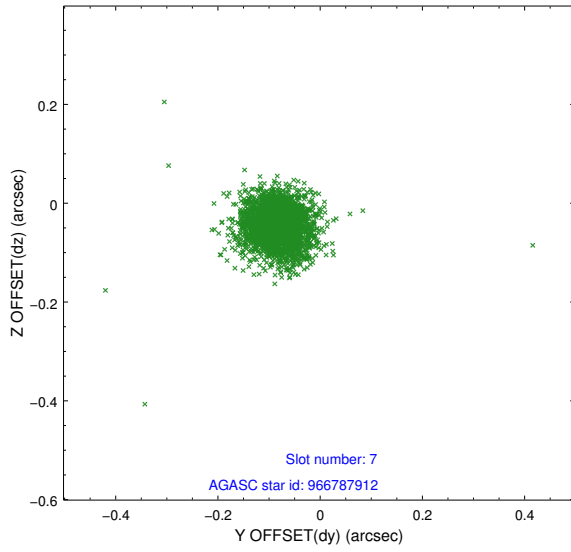


## 2.4.4 Slot 6



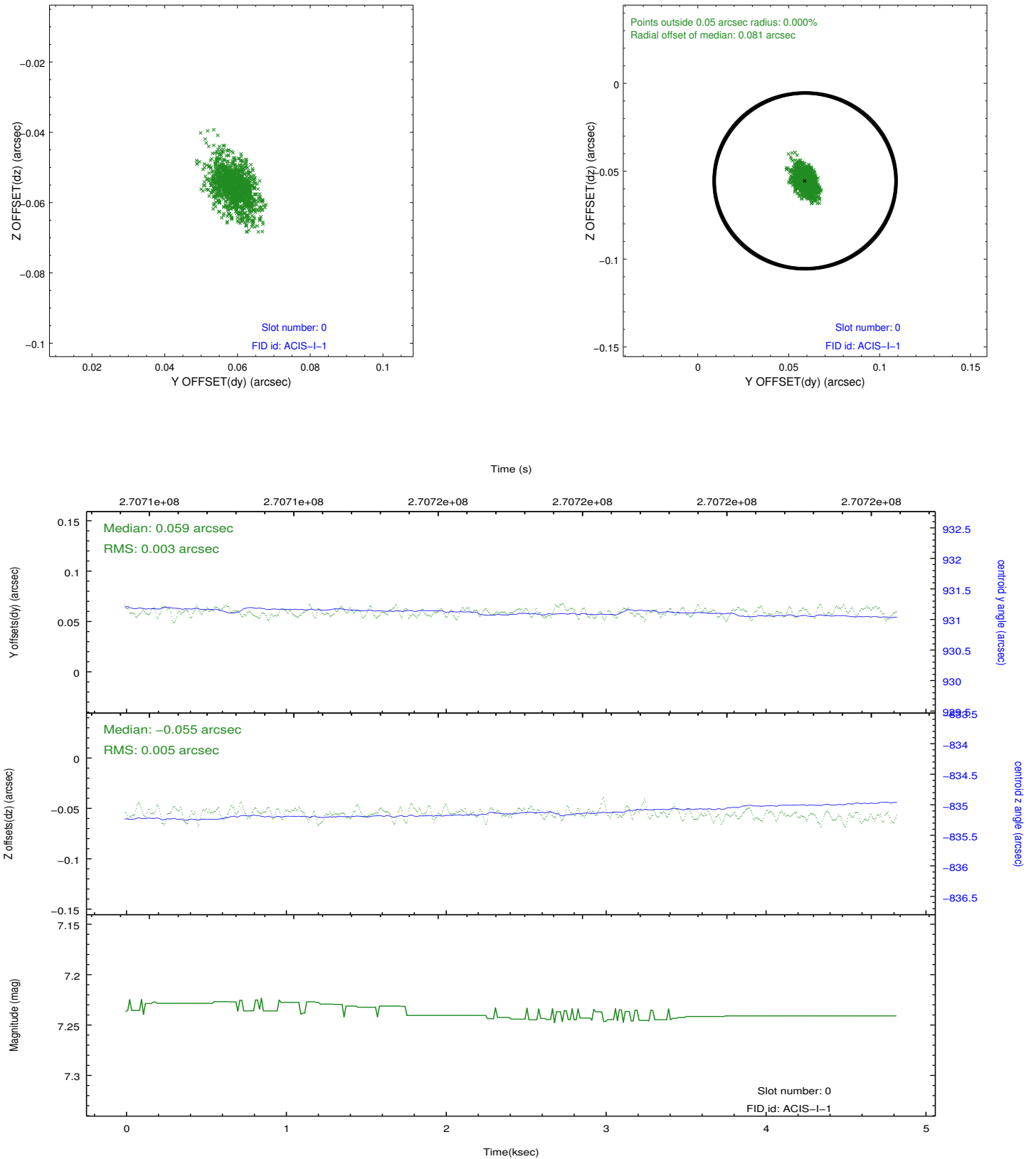


## 2.4.5 Slot 7

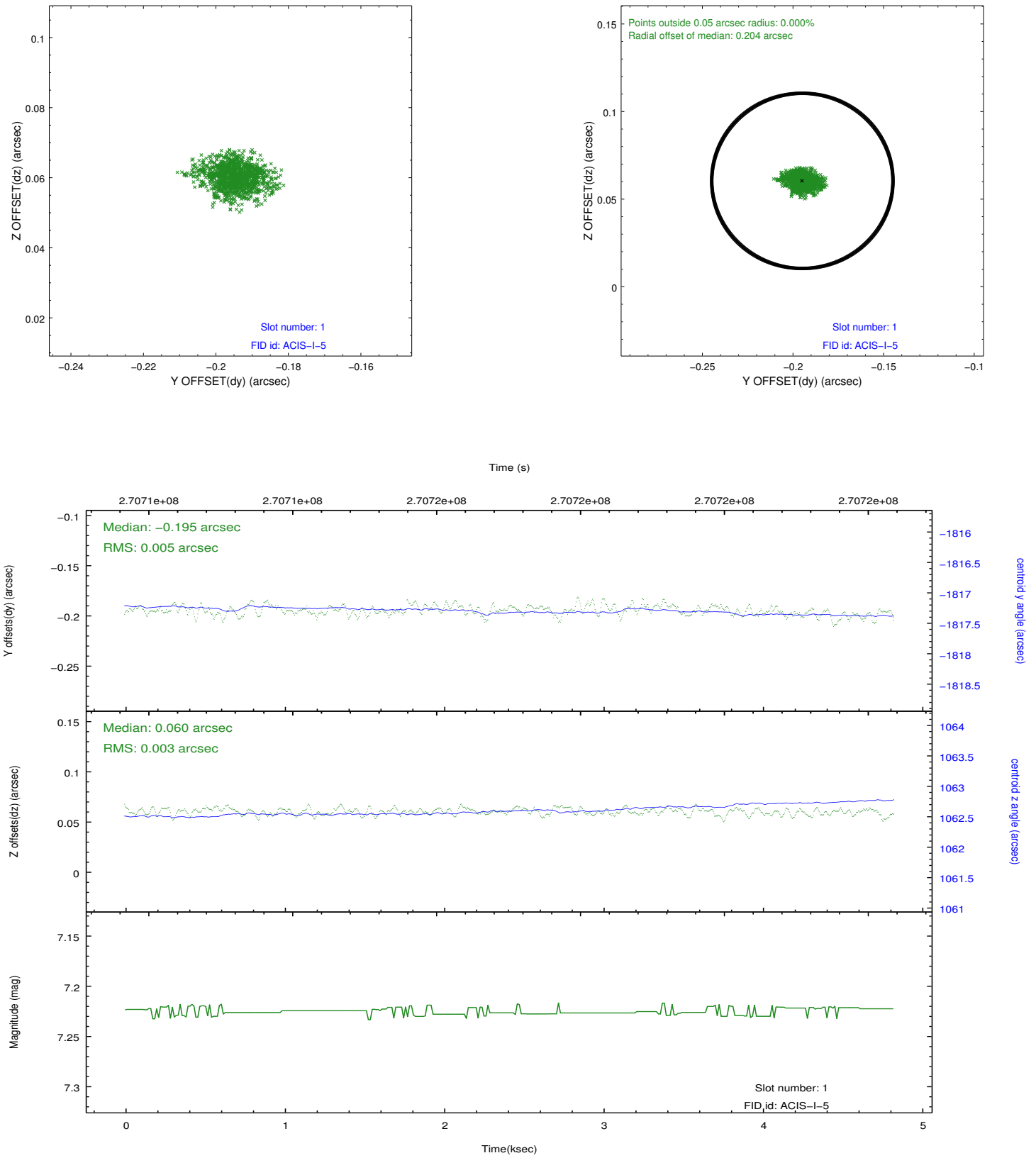


## 2.5 FID Slots

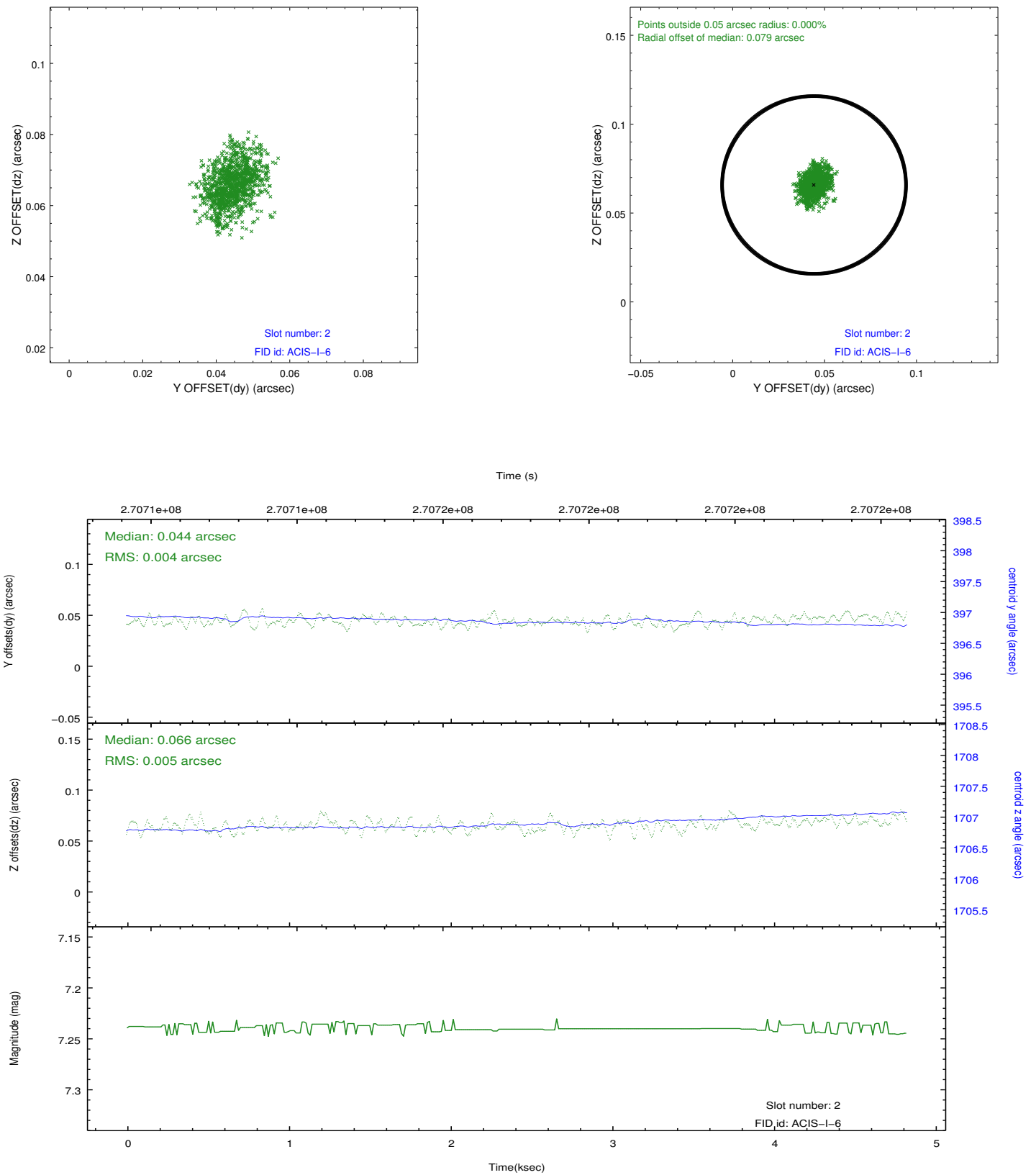
### 2.5.1 Slot 0



## 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)	2012.04.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.63039998

### A.2 Comments