

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 898 - L2 Version 4  
Chandra X-Ray Center

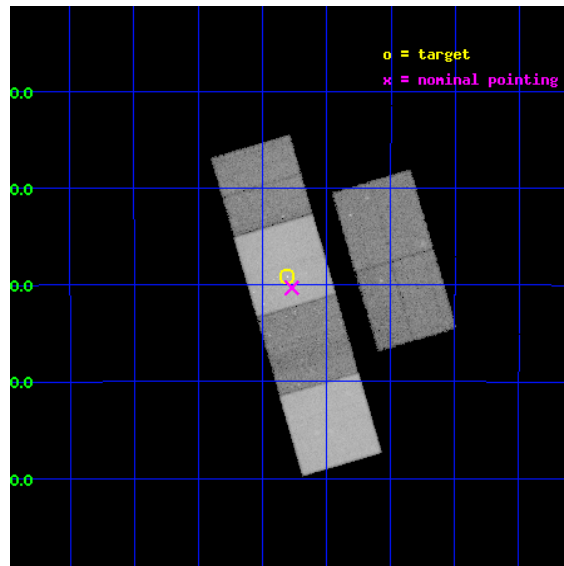
L2 Processing Date : Aug 28 2012

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# 1 Front

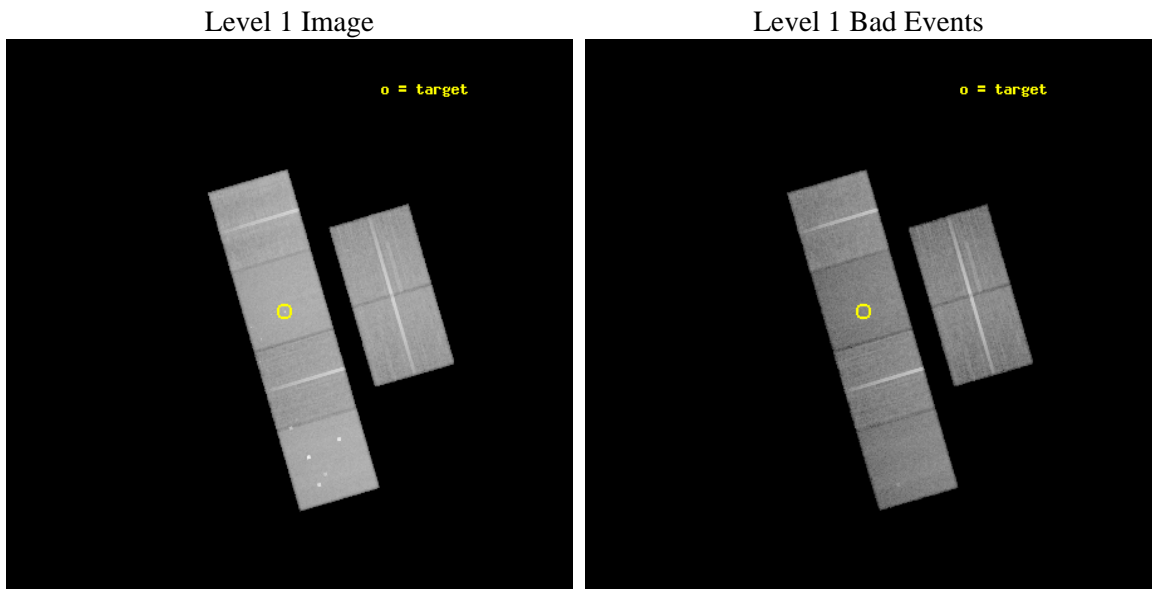
seq_num	800074	Sequence number
obs_id	898	Observation id
title	AN X-RAY CLUSTER AT Z = 2.156	Proposal title
observer	Dr. Chris Carilli	Principal investigator
object	B1138-262	Source name
dtycycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	175.20125	Observer's specified target RA [deg]
dec_targ	-26.485722	Observer's specified target Dec [deg]
ra_nom	175.19266923405	Nominal RA [deg]
dec_nom	-26.505339121159	Nominal Dec [deg]
roll_nom	253.66322041348	Nominal Roll [deg]
revision	4	Processing version of data
ontime	39974.400037214	Sum of GTIs [s]
livetime	39468.220114249	Livetime [s]
ontime2	39974.400037214	Sum of GTIs [s]
ontime3	39974.400037214	Sum of GTIs [s]
ontime5	39974.400037214	Sum of GTIs [s]
ontime6	39974.400037214	Sum of GTIs [s]
ontime7	39974.400037214	Sum of GTIs [s]
ontime8	39974.400037214	Sum of GTIs [s]
l2events	480094	Number of level 2 events



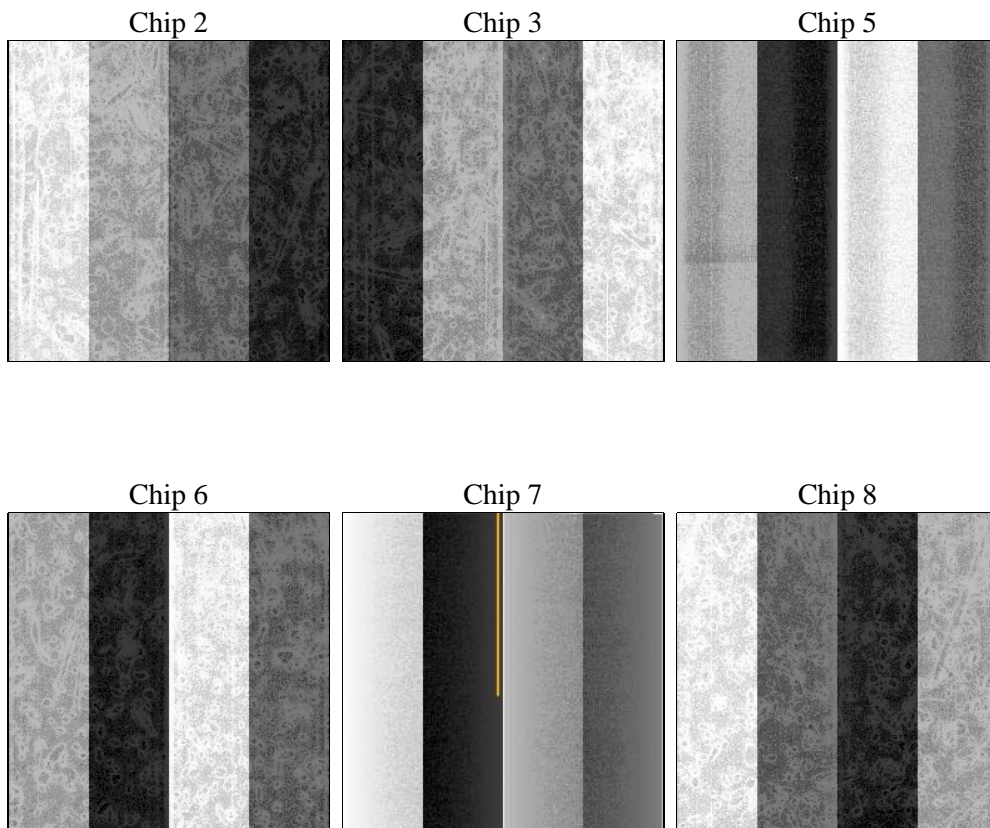
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	40000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	39974.400037214	Sum of GTIs [s]
caldbver	4.5.1.1	&#160	ontime2	39974.400037214	Sum of GTIs [s]
date	2012-08-28T23:34:06	Date and time of file creation	ontime3	39974.400037214	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	39974.400037214	Sum of GTIs [s]
			ontime6	39974.400037214	Sum of GTIs [s]
			ontime7	39974.400037214	Sum of GTIs [s]
			ontime8	39974.400037214	Sum of GTIs [s]
			l1events	1886975	Number of level 1 events

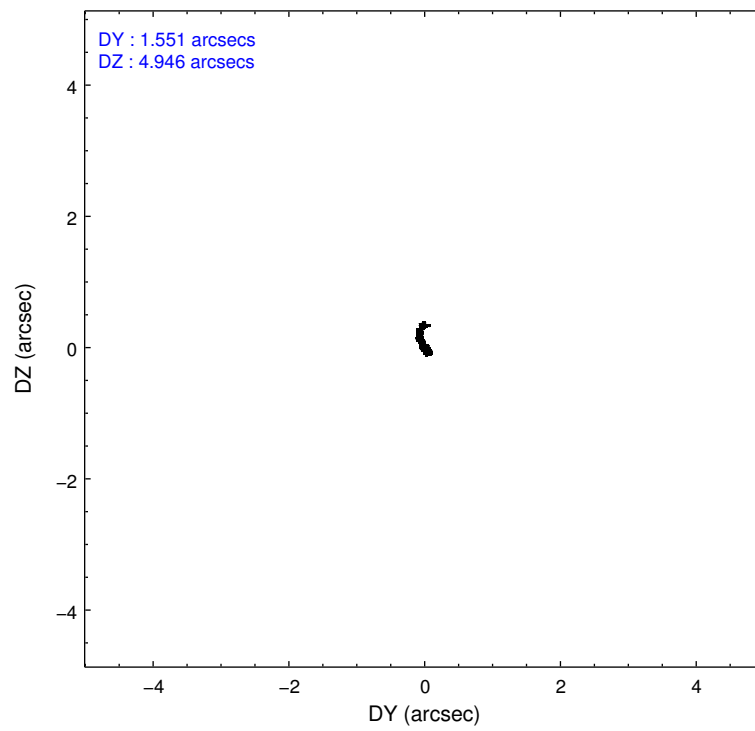
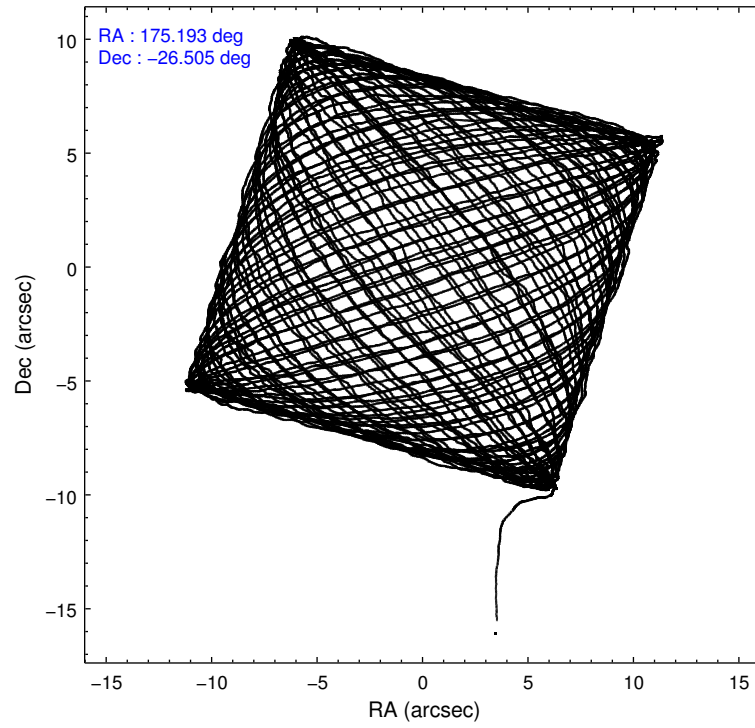
### 2.1.4 Events

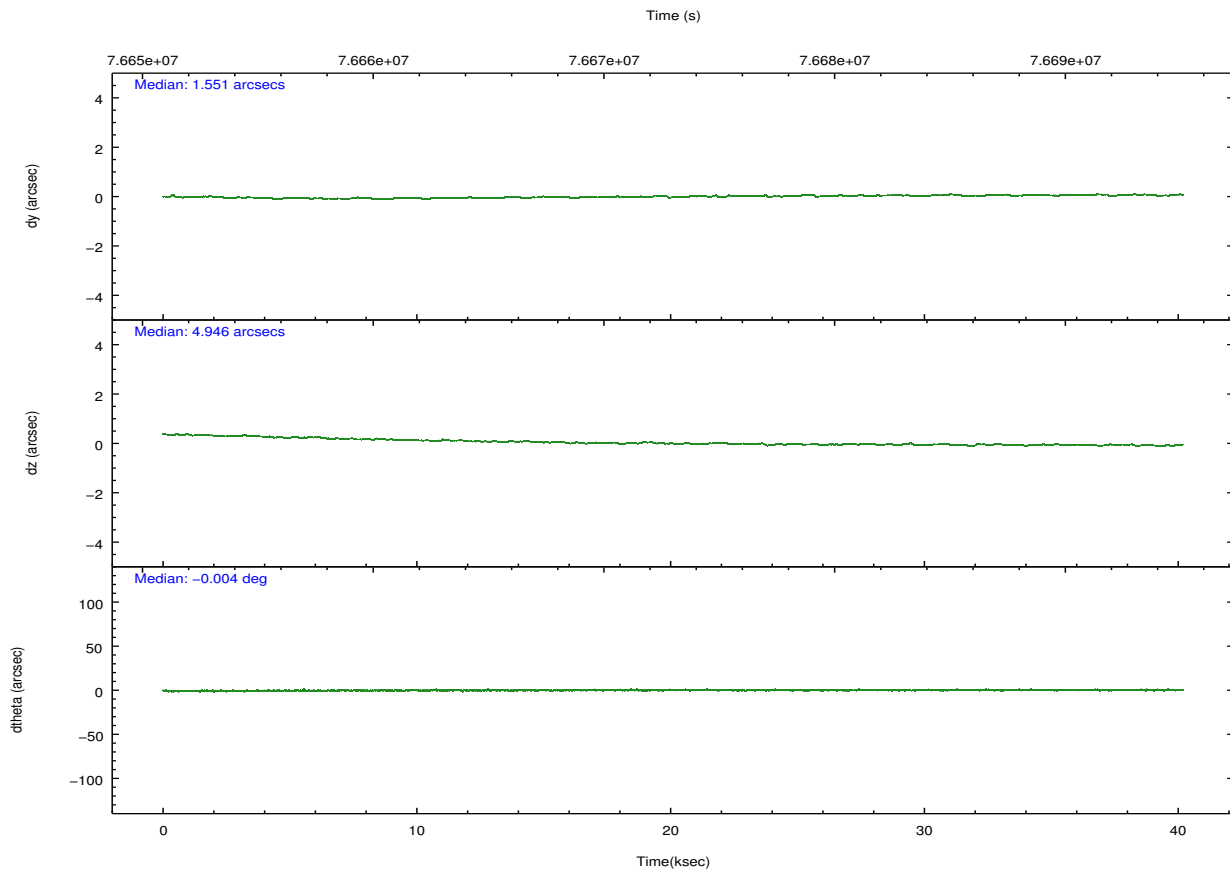
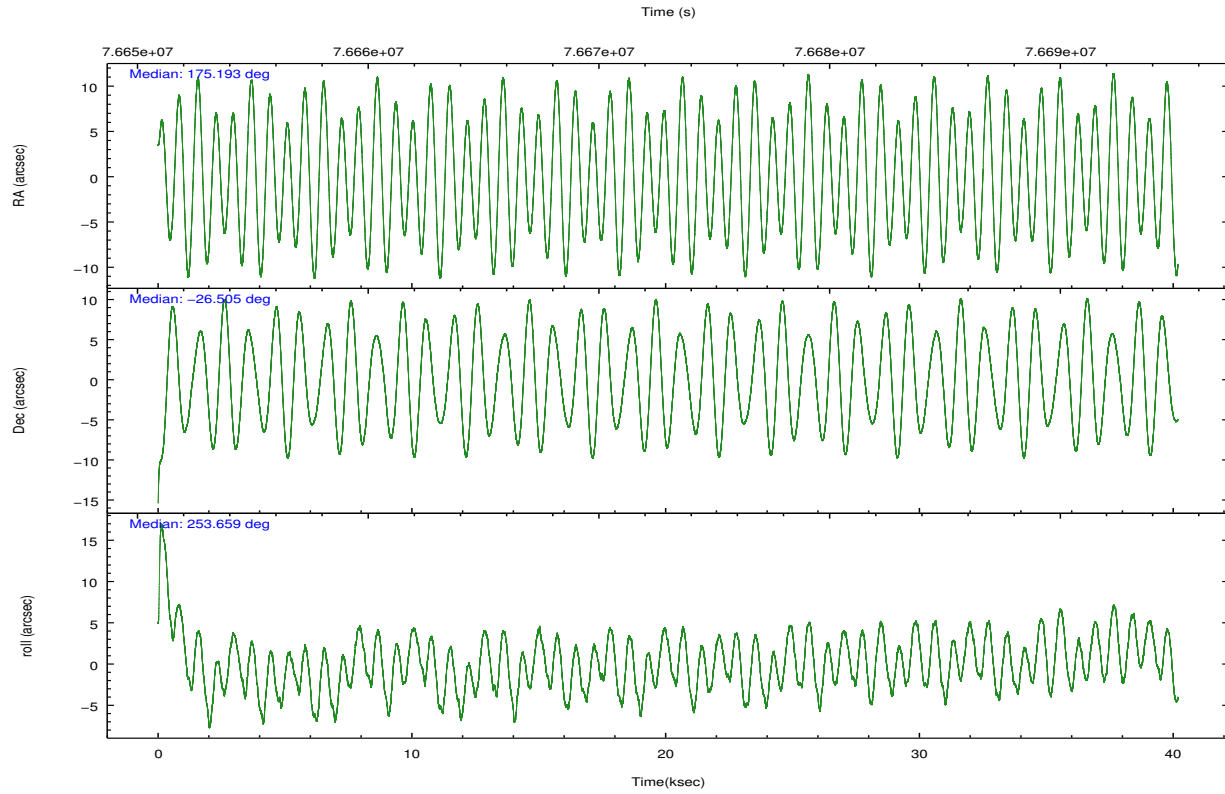
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	275645	270909	382538	272509	342422	342952	grade 0 events	15521	16142	34891	16881	19824	28140
rejected events	237886	232596	184187	231622	177271	261896		5%	5%	9%	6%	5%	8%
rejected %	86%	85%	48%	84%	51%	76%	grade 1 events	133	143	374	125	312	222
								0%	0%	0%	0%	0%	0%
							grade 2 events	7848	7747	55530	8041	32296	16084
								2%	2%	14%	2%	9%	4%
							grade 3 events	3243	3223	9117	3495	15171	9079
								1%	1%	2%	1%	4%	2%
							grade 4 events	3338	3375	9147	3445	15007	8417
								1%	1%	2%	1%	4%	2%
							grade 5 events	8244	8841	26023	9923	29396	12508
								2%	3%	6%	3%	8%	3%
							grade 6 events	7819	7835	89690	9038	82893	19346
								2%	2%	23%	3%	24%	5%
							grade 7 events	229499	223603	157766	221561	147523	249156
								83%	82%	41%	81%	43%	72%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-235678	ACIS-235678	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	175.185310	175.1926692340487	Subarray requested	NONE	NONE
[deg] Pointing Dec	-26.478724	-26.50533912115946	Alternating exposures requested	N	N
[deg] Pointing Roll	253.503312	253.6632204134755	[s] Primary exposure time	0.000000	3.2
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	76653091.184000	76652040.49822199			
Observation start date	2000-06-06T04:30:27	2000-06-06T04:14:00			
[s] Observation end time (MET)	76693091.184000	76694026.037267			
Observation end date	2000-06-06T15:37:07	2000-06-06T15:53:46			
Read mode	TIMED	TIMED			

## 2.3 Aspect



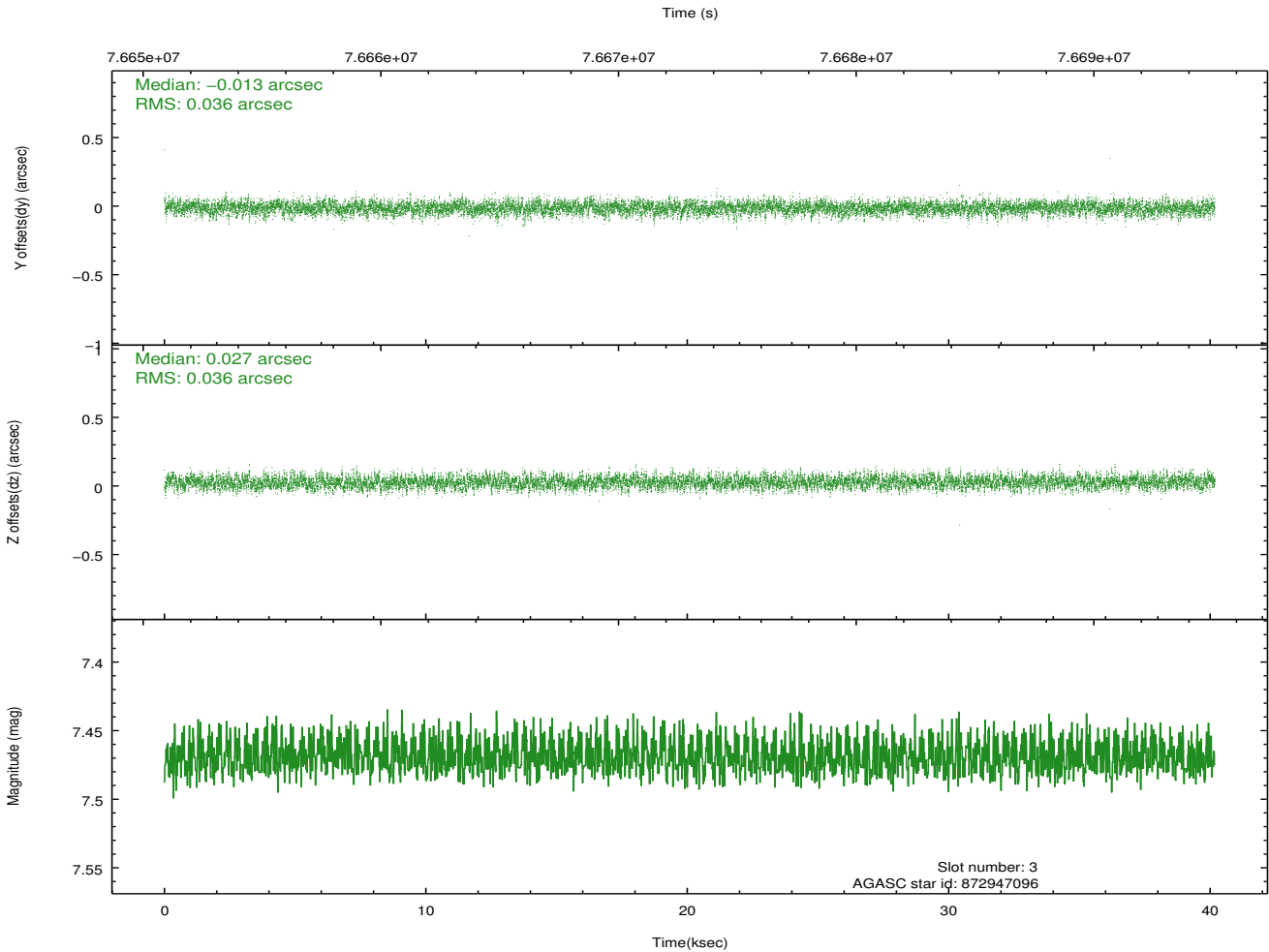
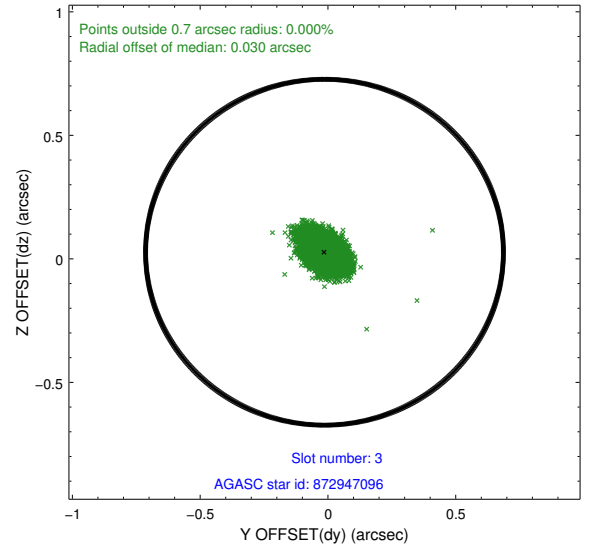
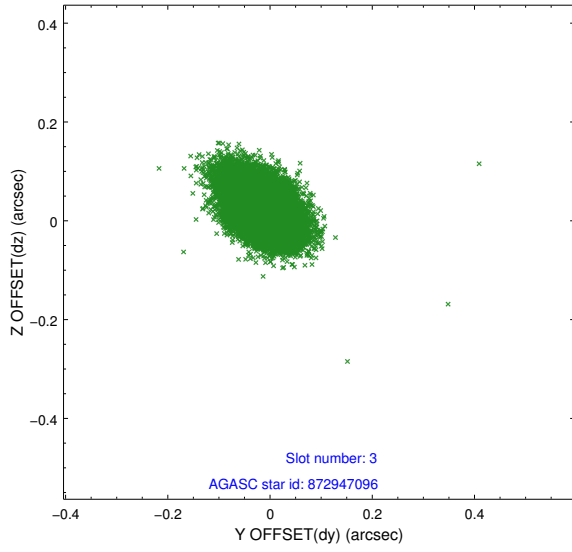


### Slot Statistics

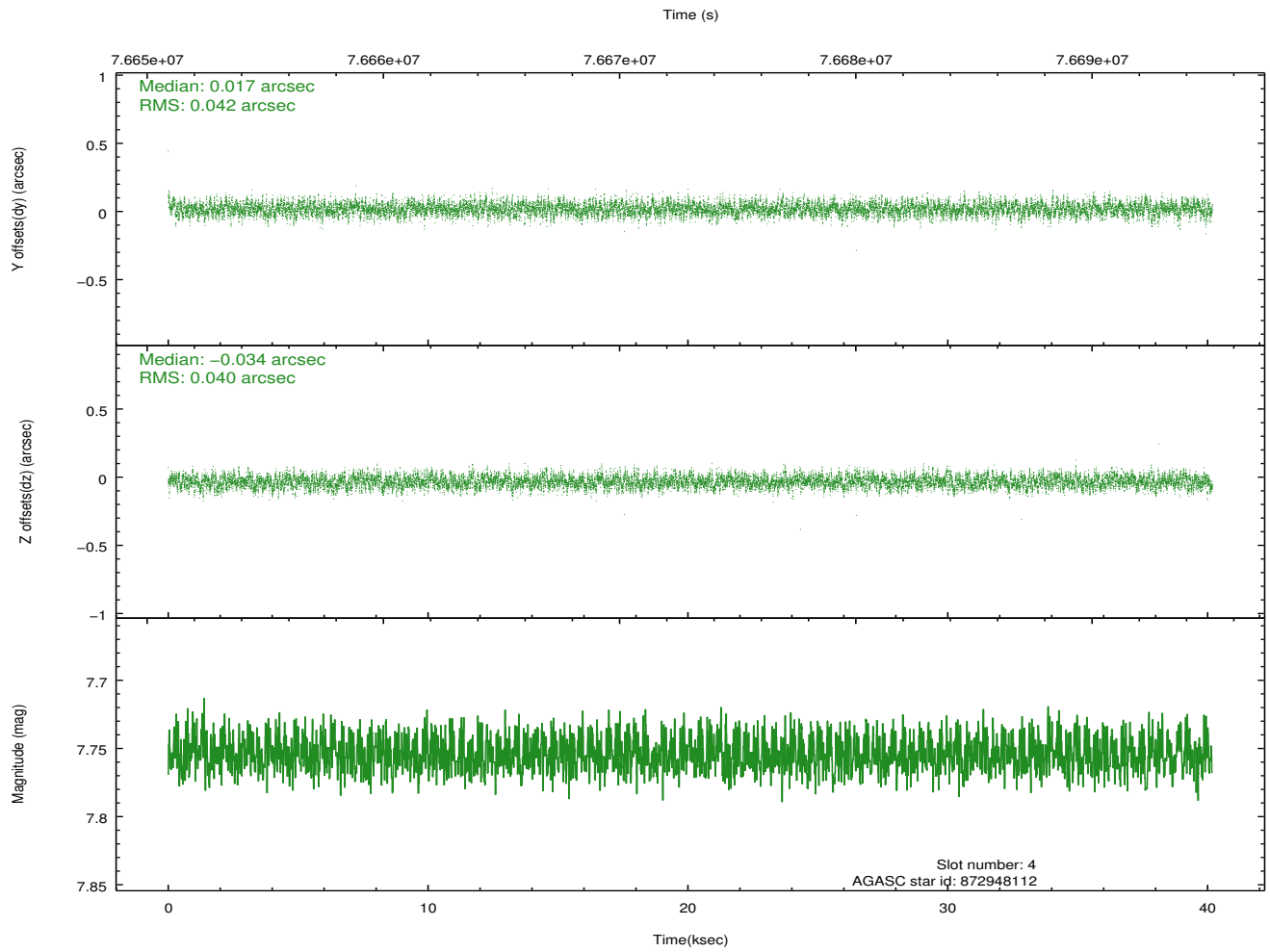
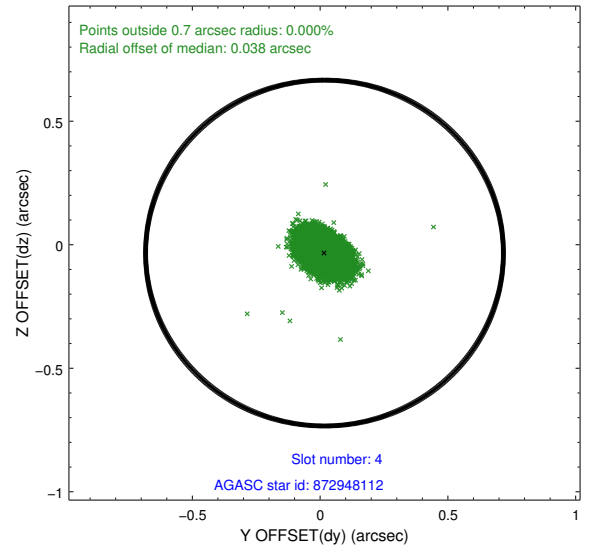
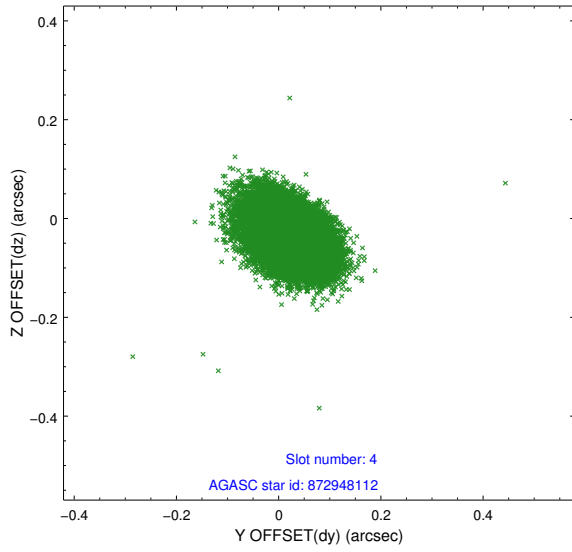
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	9800	-0.036	-0.003	0.007	0.012	0.000000	0.000000	-754.18	-1726.11
1	FID	ACIS-S-4	7.21	9801	0.001	0.018	0.005	0.010	0.000000	0.000000	2159.12	182.39
2	FID	ACIS-S-5	7.24	9800	0.004	-0.006	0.007	0.012	0.000000	0.000000	-1806.97	176.03
3	GUIDE	872947096	7.47	19602	-0.013	0.027	0.053	0.090	174.827331	-26.844465	1591.20	-728.05
4	GUIDE	872948112	7.75	19598	0.017	-0.034	0.061	0.100	175.000808	-26.640596	728.51	-403.67
5	GUIDE	872947512	9.41	19594	-0.044	0.065	0.107	0.174	175.707382	-26.856443	831.45	1994.94
6	GUIDE	872948520	9.23	19567	0.140	-0.052	0.077	0.132	175.236451	-26.810000	1097.66	496.36
7	GUIDE	872422440	9.86	19592	-0.101	-0.006	0.094	0.155	175.209795	-26.065571	-1448.00	-346.53

## 2.4 Star Slots

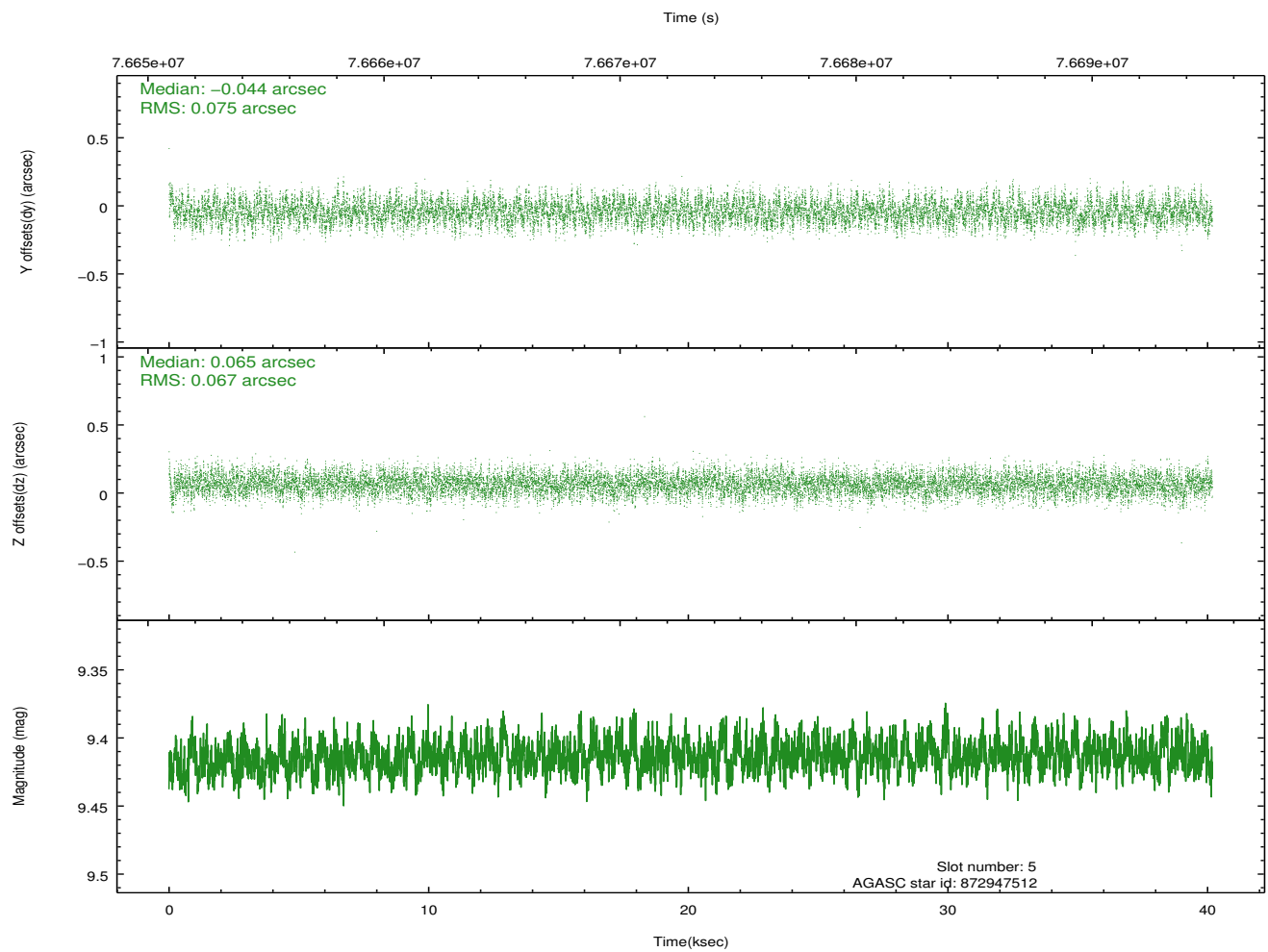
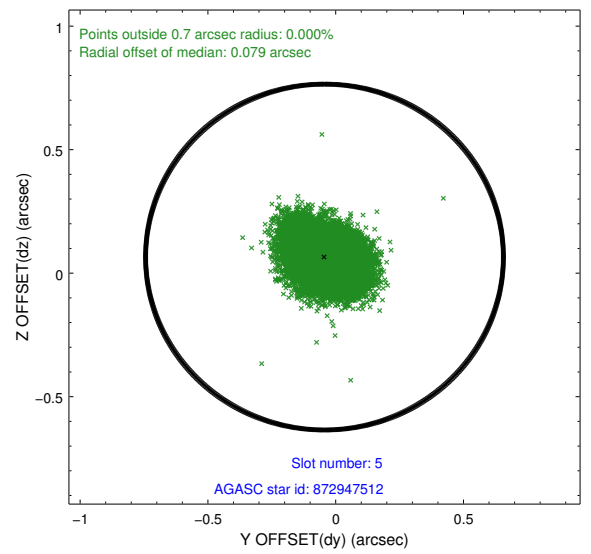
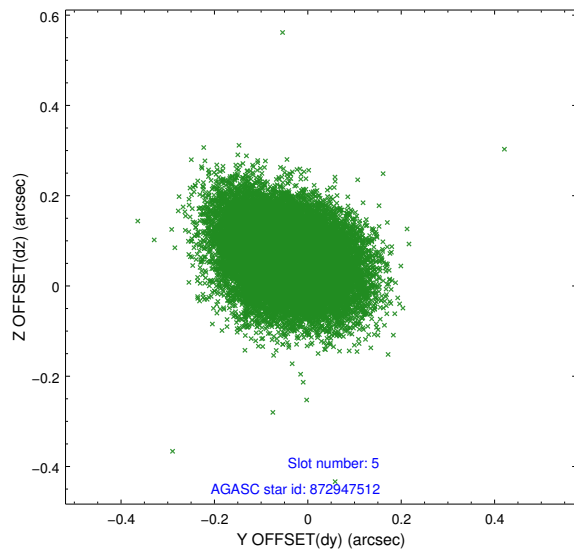
### 2.4.1 Slot 3



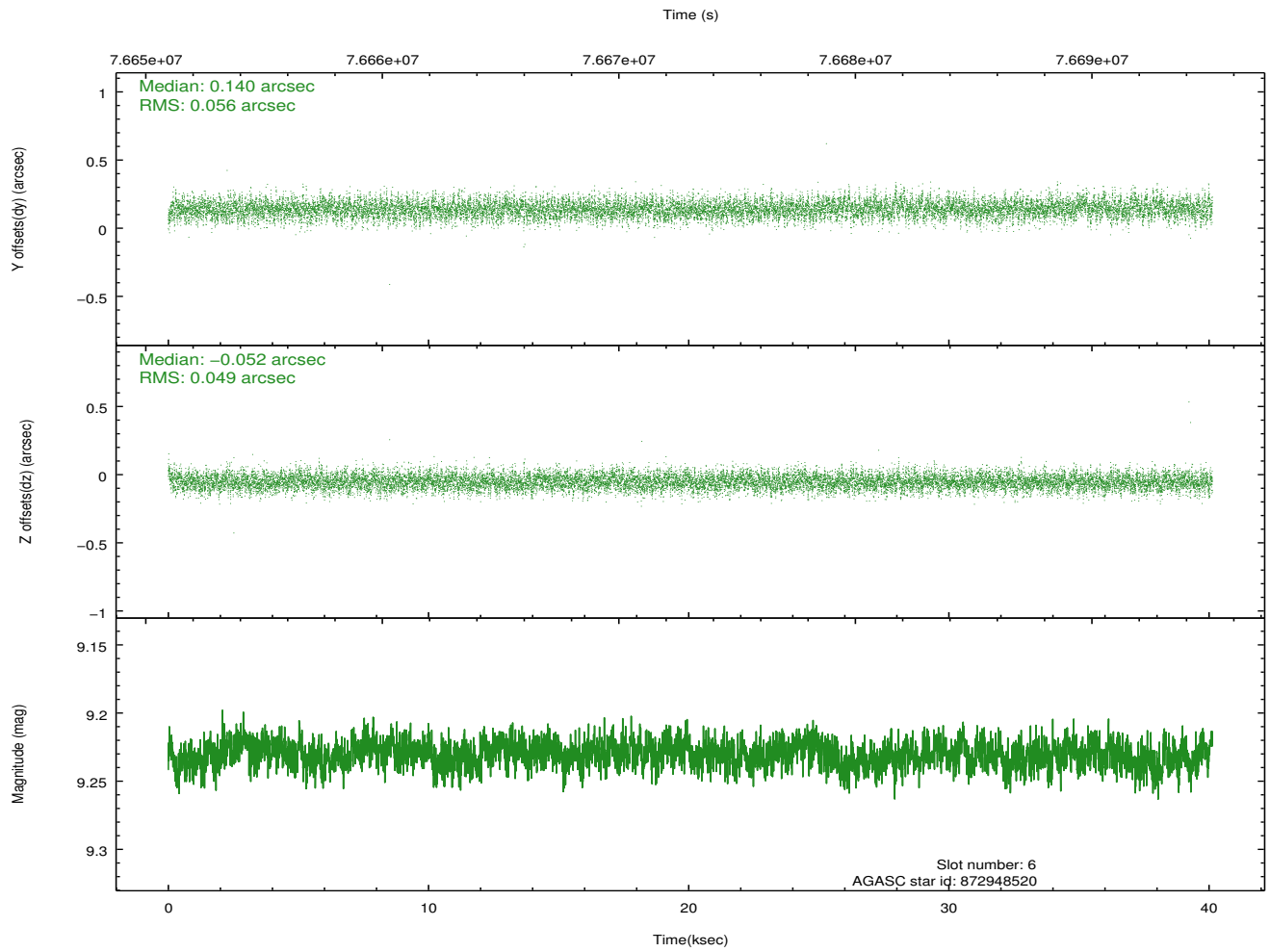
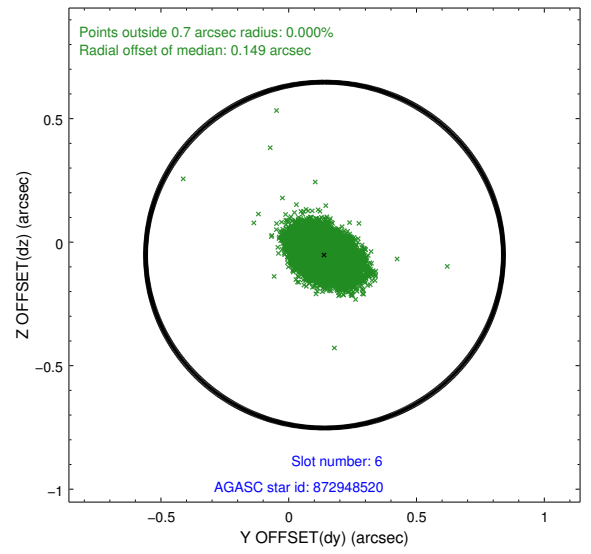
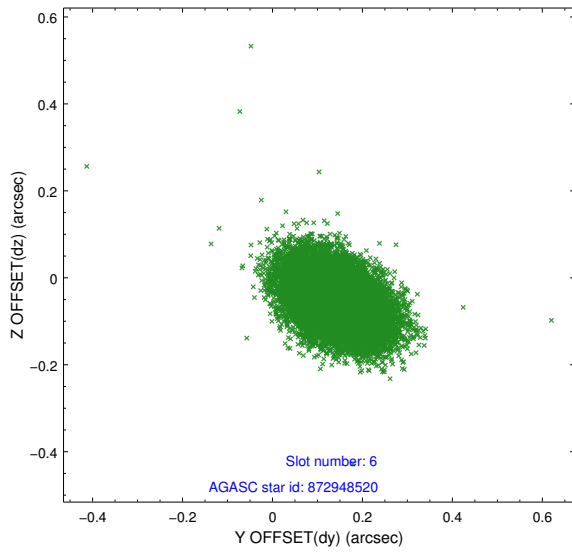
### 2.4.2 Slot 4



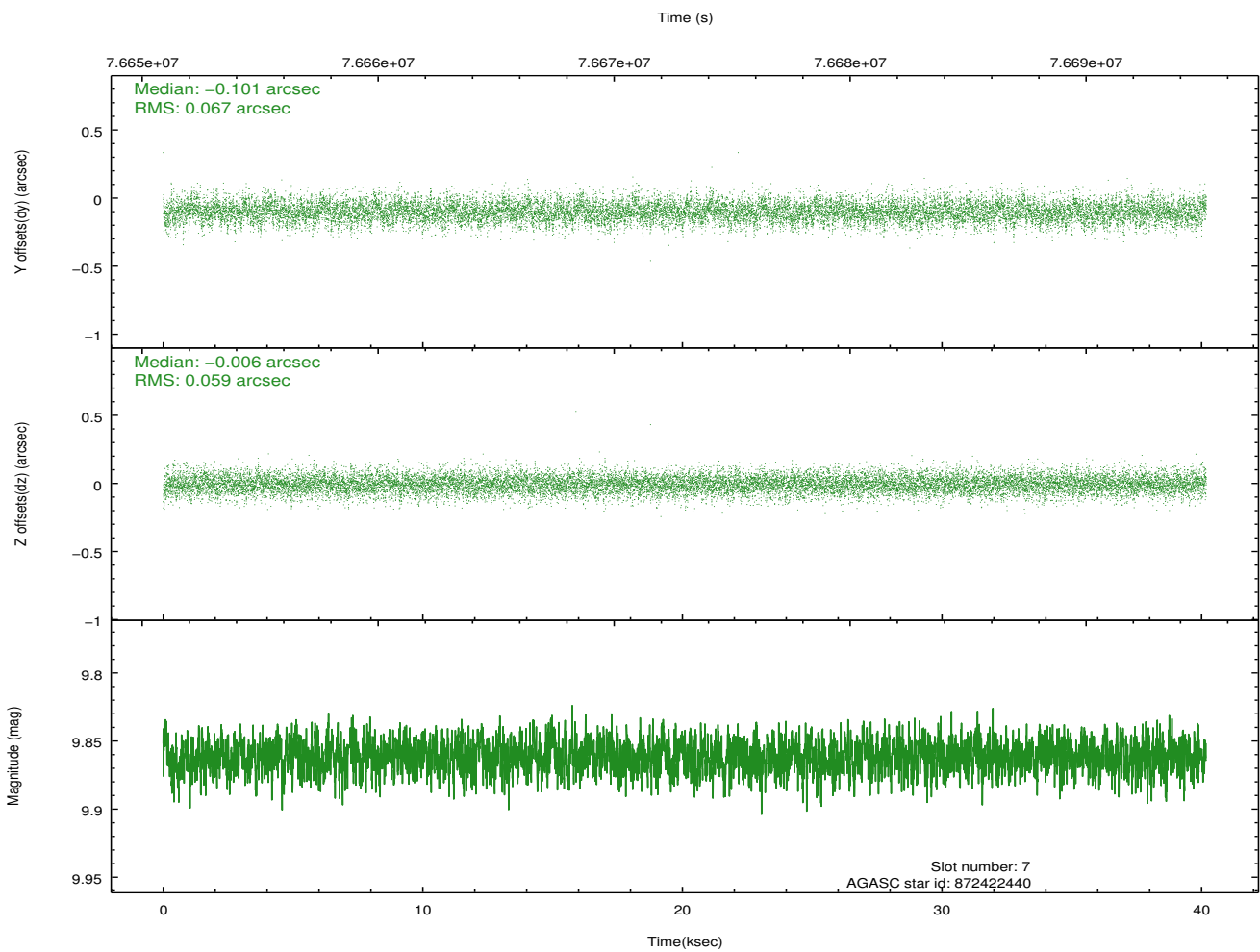
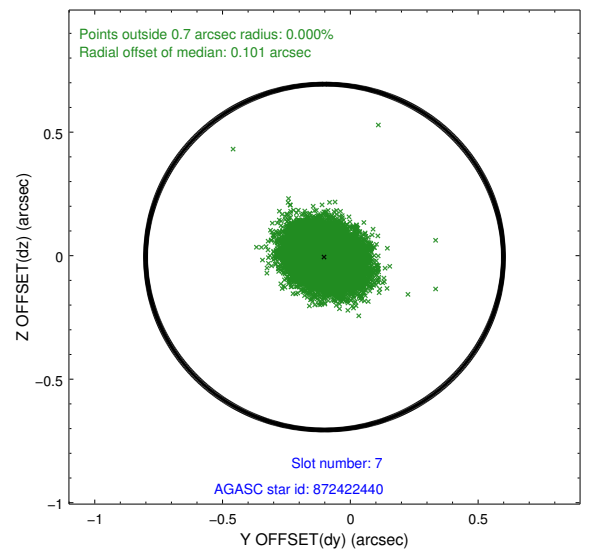
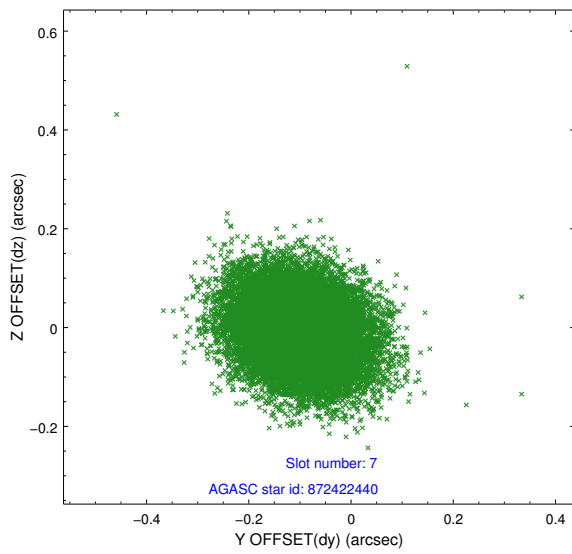
### 2.4.3 Slot 5



## 2.4.4 Slot 6

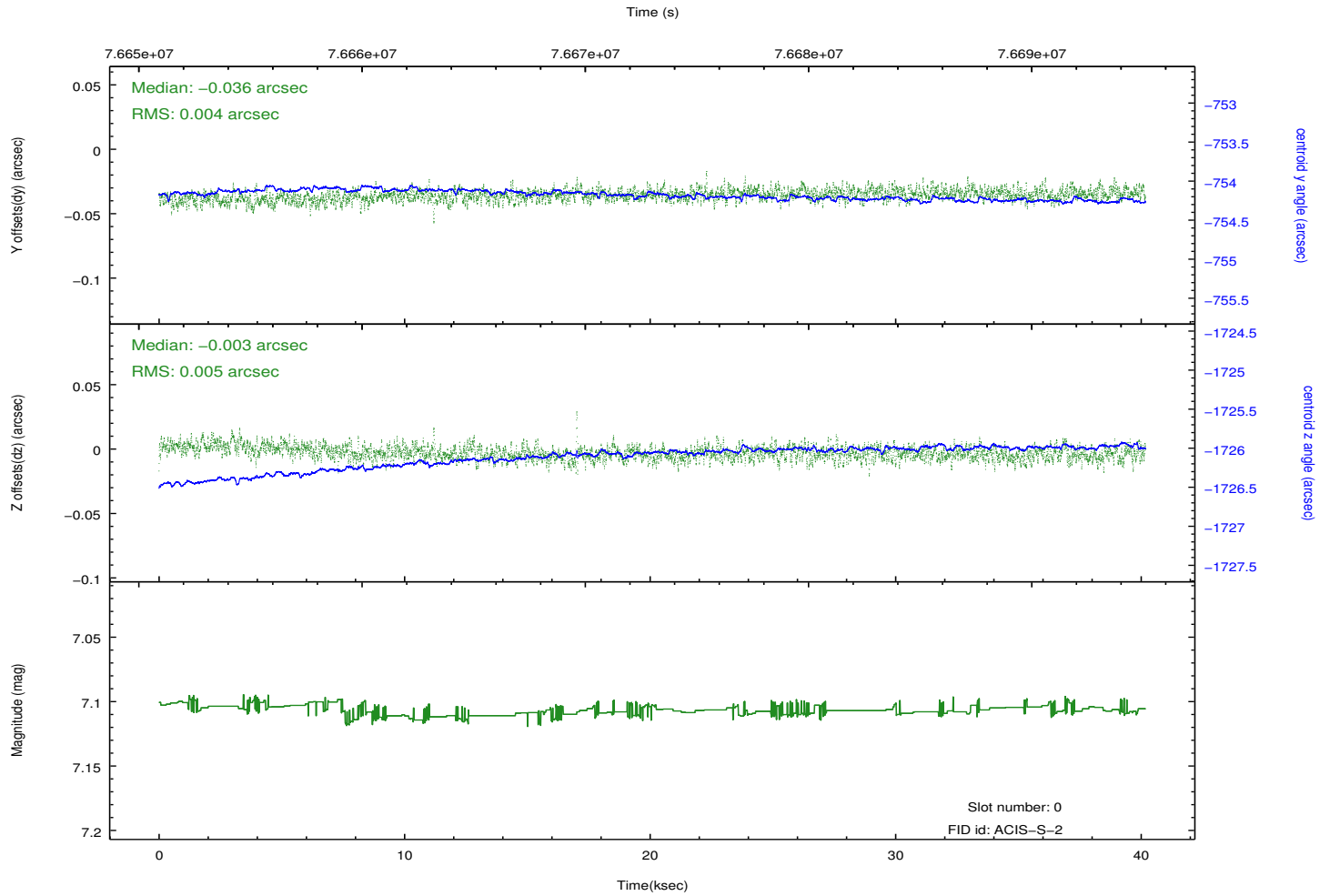
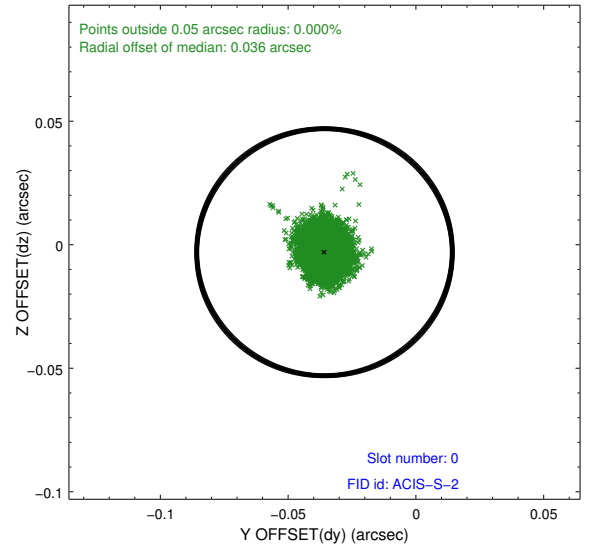
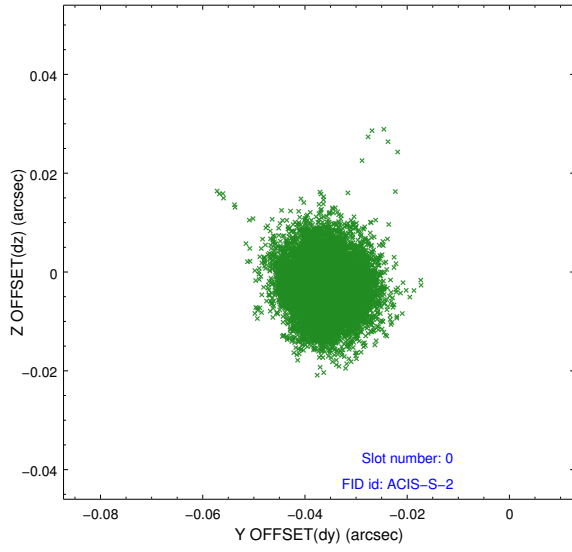


### 2.4.5 Slot 7

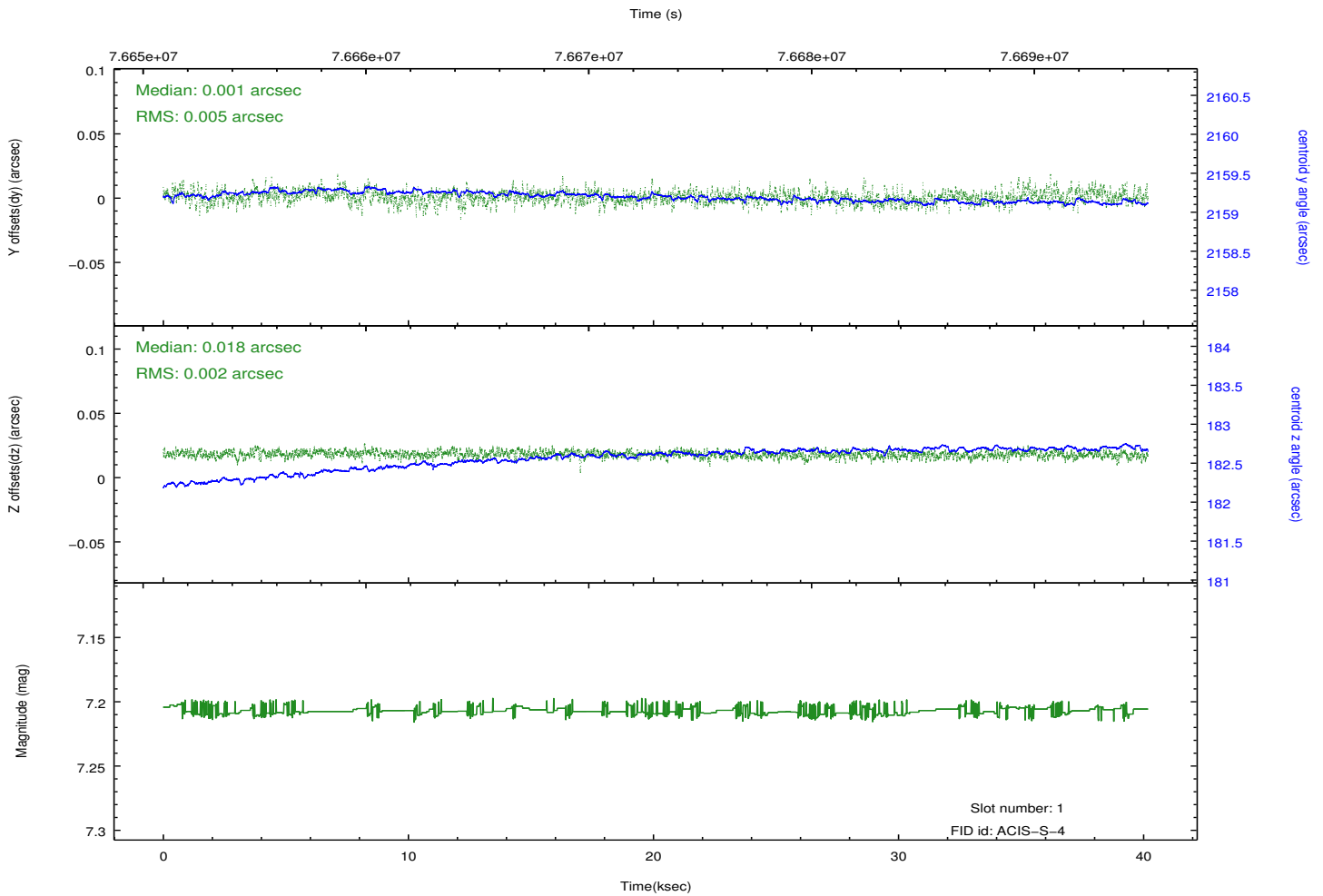
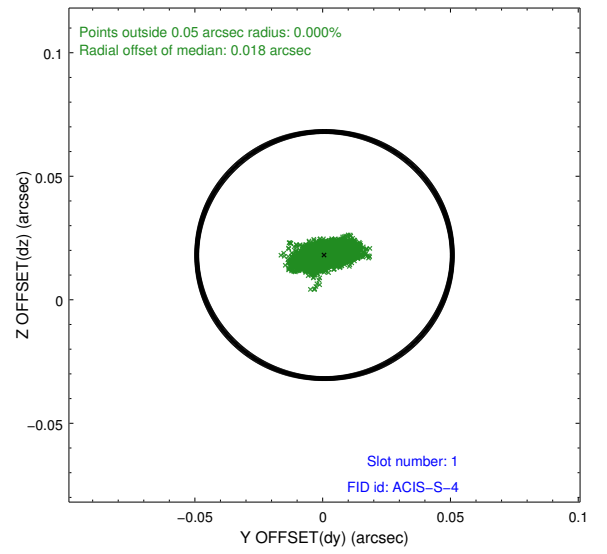
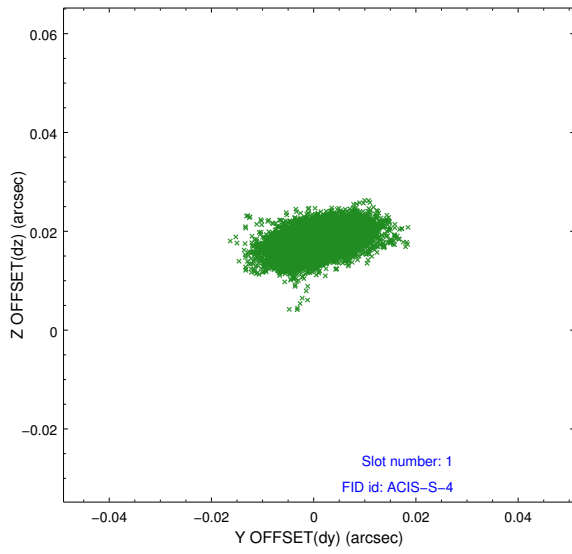


## 2.5 FID Slots

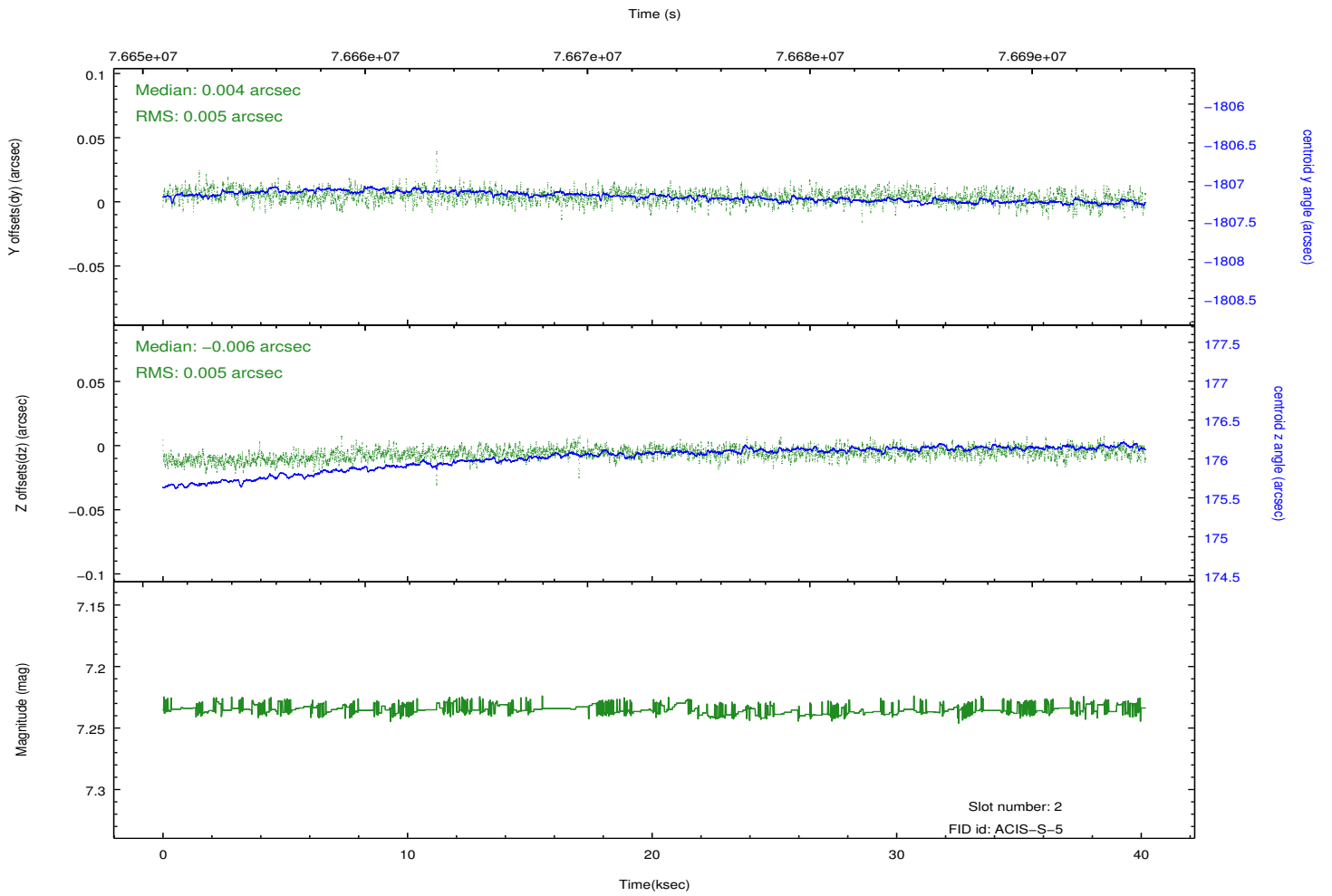
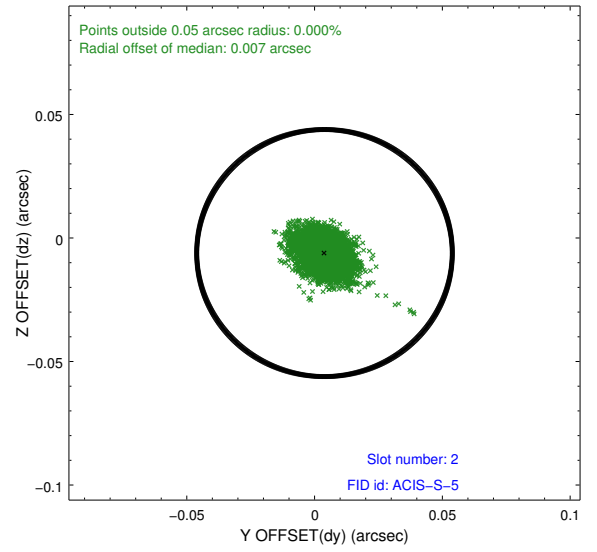
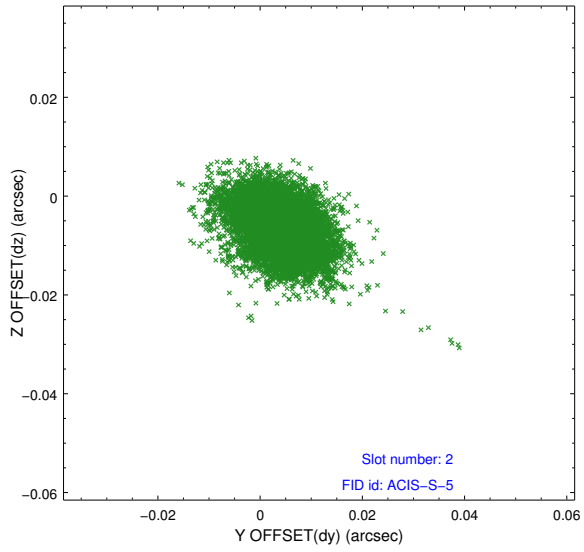
### 2.5.1 Slot 0



## 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)	2012.08.31
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	39.977

## A.2 Comments