

# V&V Reference Report

## L2 ASCDS Version : 8.4.3

Observation 5823 - L2 Version 2  
Chandra X-Ray Center

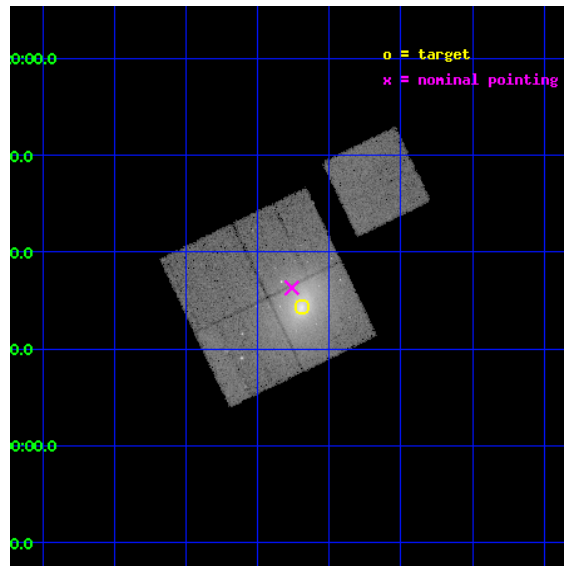
L2 Processing Date : Mar 17 2012

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# 1 Front

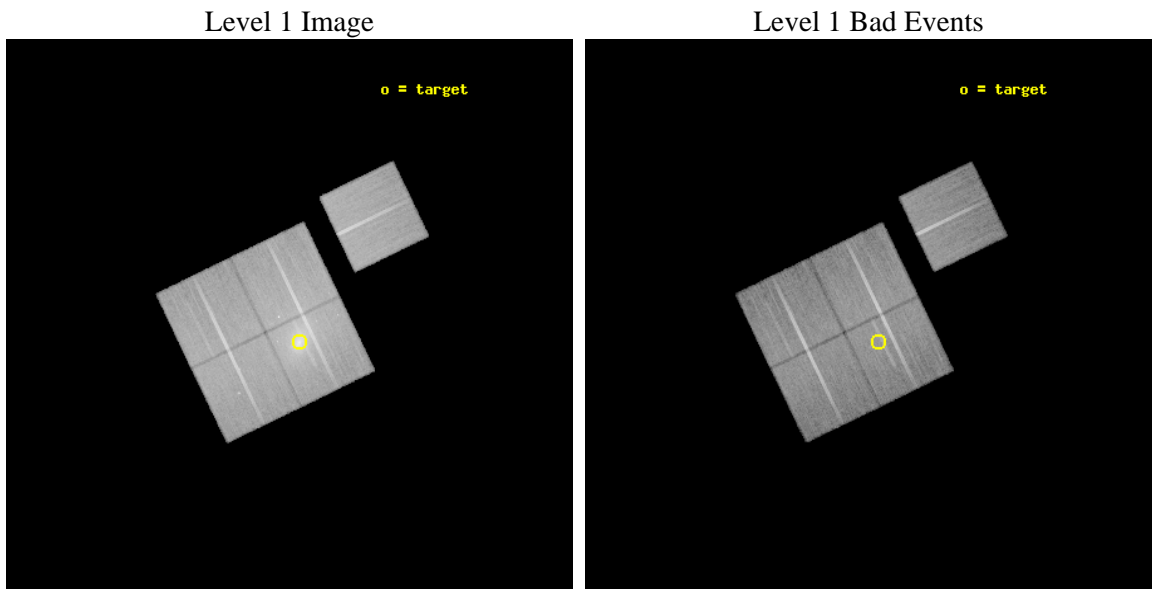
seq_num	800535	Sequence number
obs_id	5823	Observation id
title	A Deep Observation of a Radio-Quiet Cooling Flow	Proposal title
observer	Prof. Megan Donahue	Principal investigator
object	Abell 1650	Source name
dtycycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	194.672083	Observer's specified target RA [deg]
dec_targ	-1.761389	Observer's specified target Dec [deg]
ra_nom	194.69019559715	Nominal RA [deg]
dec_nom	-1.7283467278496	Nominal Dec [deg]
roll_nom	64.232264028244	Nominal Roll [deg]
revision	2	Processing version of data
ontime	40129.336001992	Sum of GTIs [s]
livetime	39605.016684339	Livetime [s]
ontime0	40129.33612144	Sum of GTIs [s]
ontime1	40119.913131028	Sum of GTIs [s]
ontime2	40119.91311118	Sum of GTIs [s]
ontime3	40129.336001992	Sum of GTIs [s]
ontime6	40129.336031795	Sum of GTIs [s]
l2events	240140	Number of level 2 events



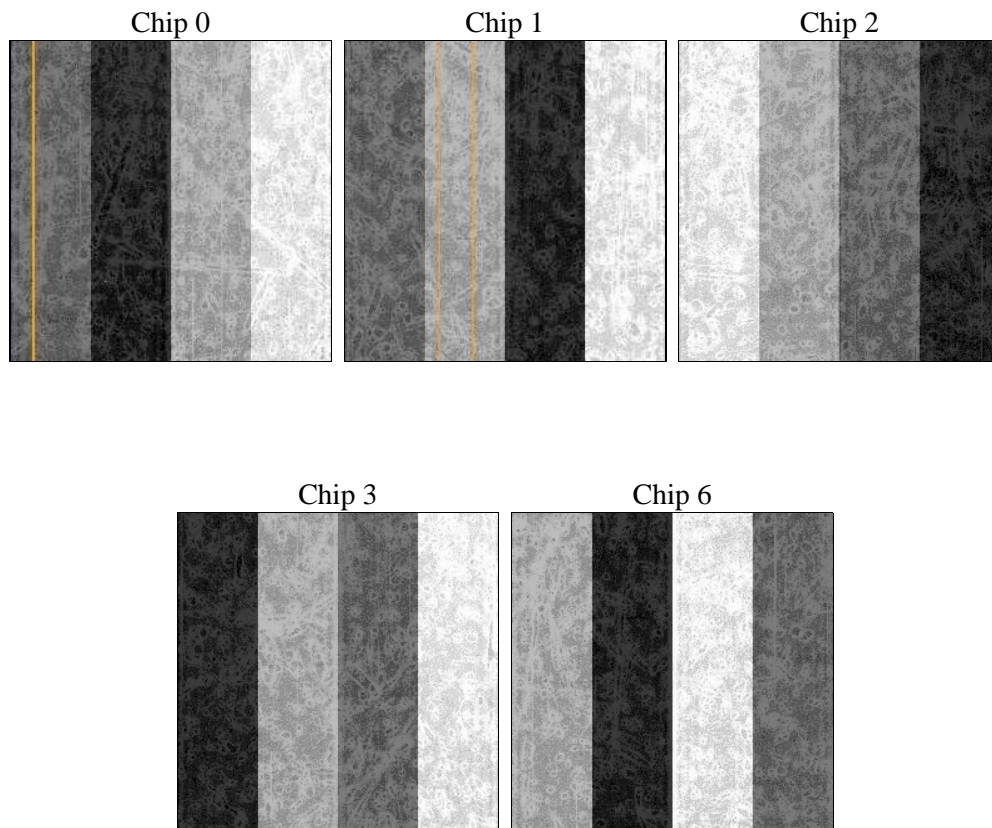
## 2 OBI

### 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	8.4.3	Processing system revision	ontime	40129.336001992	Sum of GTIs [s]
caldbver	4.4.8	&#160	ontime0	40129.33612144	Sum of GTIs [s]
date	2012-03-17T16:57:02	Date and time of file creation	ontime1	40119.913131028	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	40119.91311118	Sum of GTIs [s]
			ontime3	40129.336001992	Sum of GTIs [s]
			ontime6	40129.336031795	Sum of GTIs [s]
			l1events	1499671	Number of level 1 events

### 2.1.4 Events

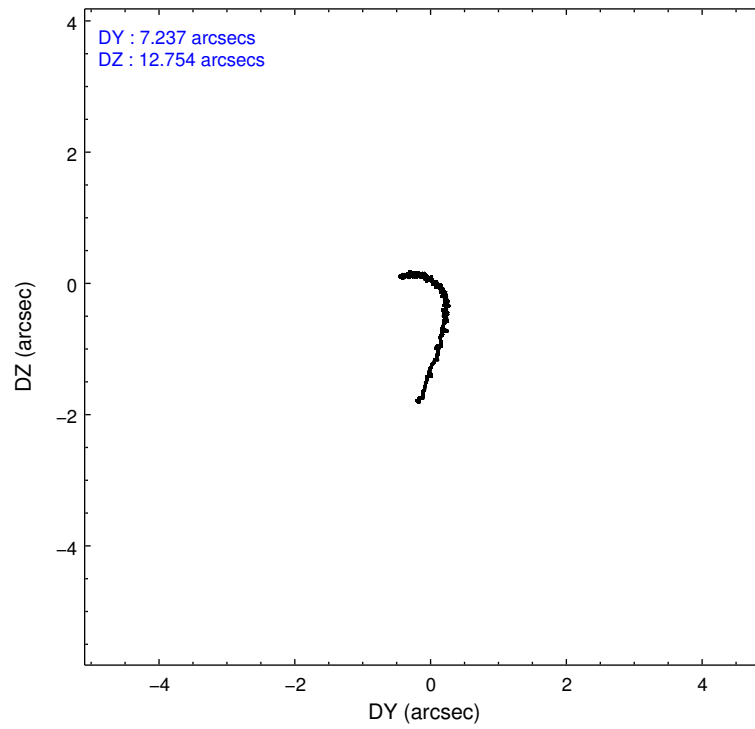
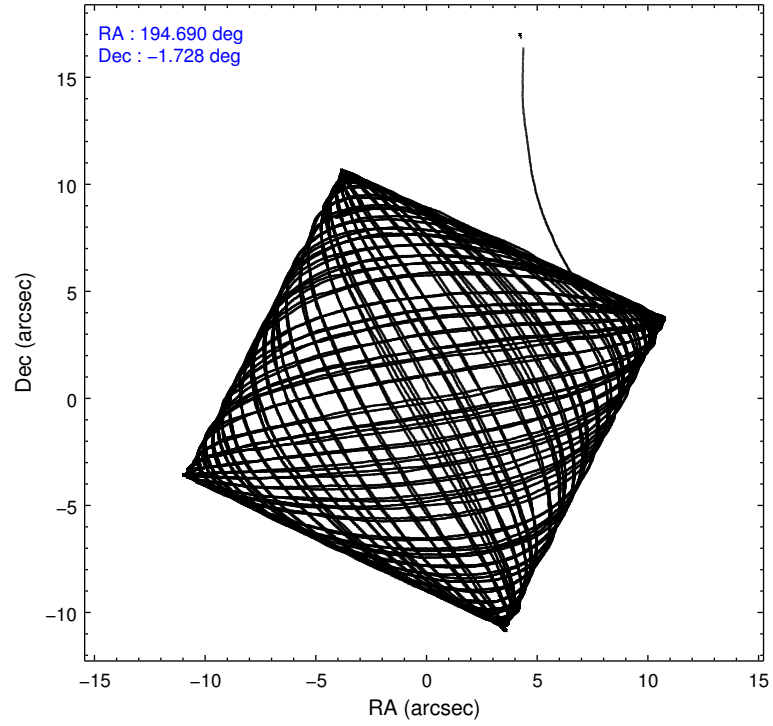
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	265729	268833	309338	380492	275279
rejected events	236811	227425	269773	250469	246733
rejected %	89%	84%	87%	65%	89%

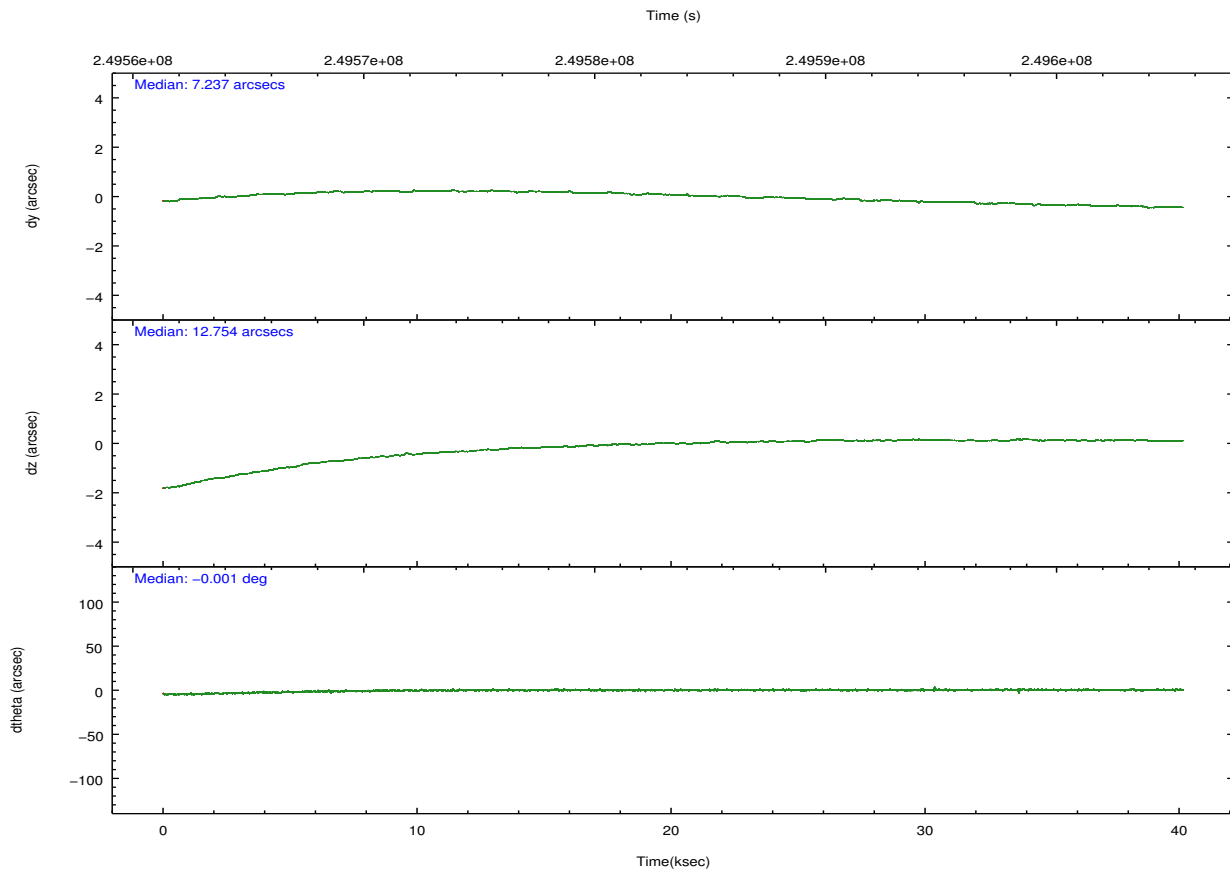
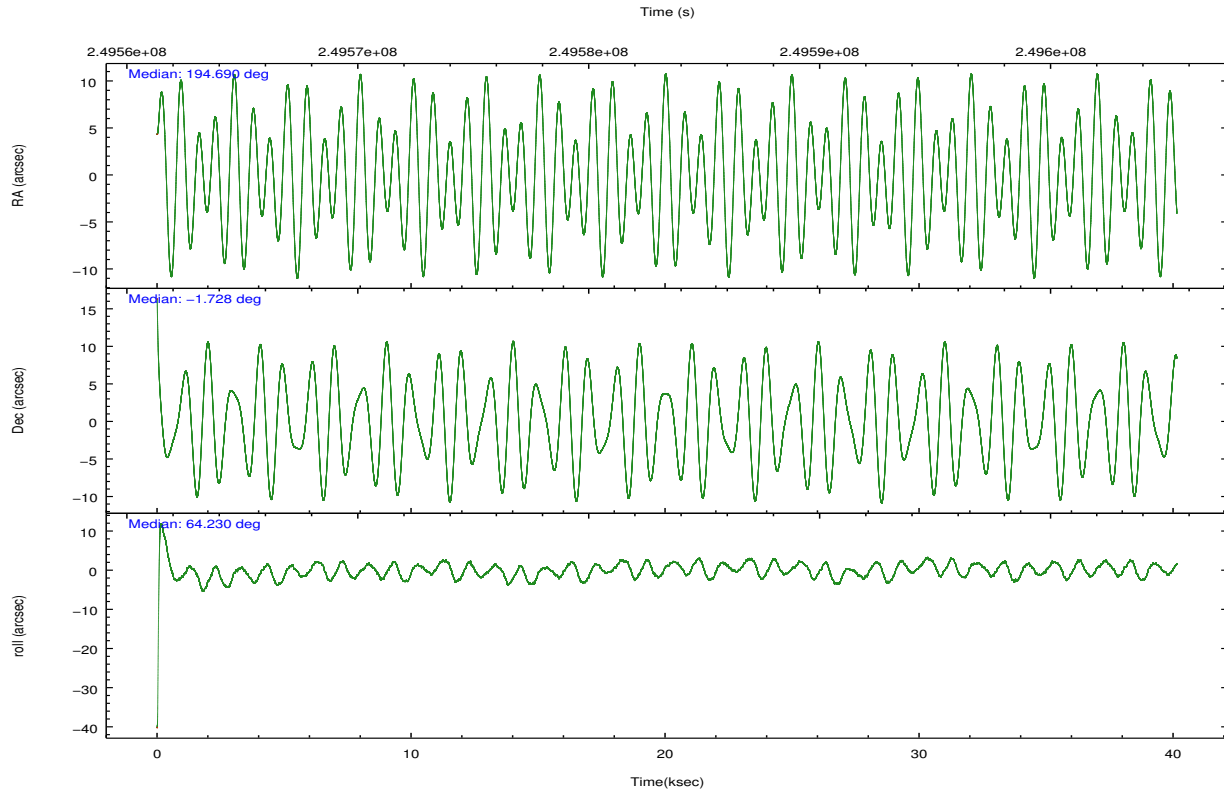
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	11036	20149	20508	95863	10300
	4%	7%	6%	25%	3%
grade 1 events	149	185	197	659	136
	0%	0%	0%	0%	0%
grade 2 events	6736	7849	7640	15335	6096
	2%	2%	2%	4%	2%
grade 3 events	3365	3759	3199	5997	3306
	1%	1%	1%	1%	1%
grade 4 events	2972	3656	3372	6004	3121
	1%	1%	1%	1%	1%
grade 5 events	9357	10576	8789	11567	10671
	3%	3%	2%	3%	3%
grade 6 events	5190	6480	5321	7673	6076
	1%	2%	1%	2%	2%
grade 7 events	226924	216179	260312	237394	235573
	85%	80%	84%	62%	85%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01236	ACIS-01236	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	194.692307	194.69019559715	Subarray requested	NONE	NONE
[deg] Pointing Dec	-1.755666	-1.728346727849611	Alternating exposures requested	N	N
[deg] Pointing Roll	64.023664	64.23226402824376	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-227.592463	-227.5933067819097			
[mm] SIM translation stage offset	-6	-5.999146221020027			
[s] Observation start time (MET)	249563465.184000	249562225.15684			
Observation start date	2005-11-28T11:10:01	2005-11-28T10:50:25			
[s] Observation end time (MET)	249603465.184000	249604568.9338			
Observation end date	2005-11-28T22:16:41	2005-11-28T22:36:08			
Read mode	TIMED	TIMED			

## 2.3 Aspect



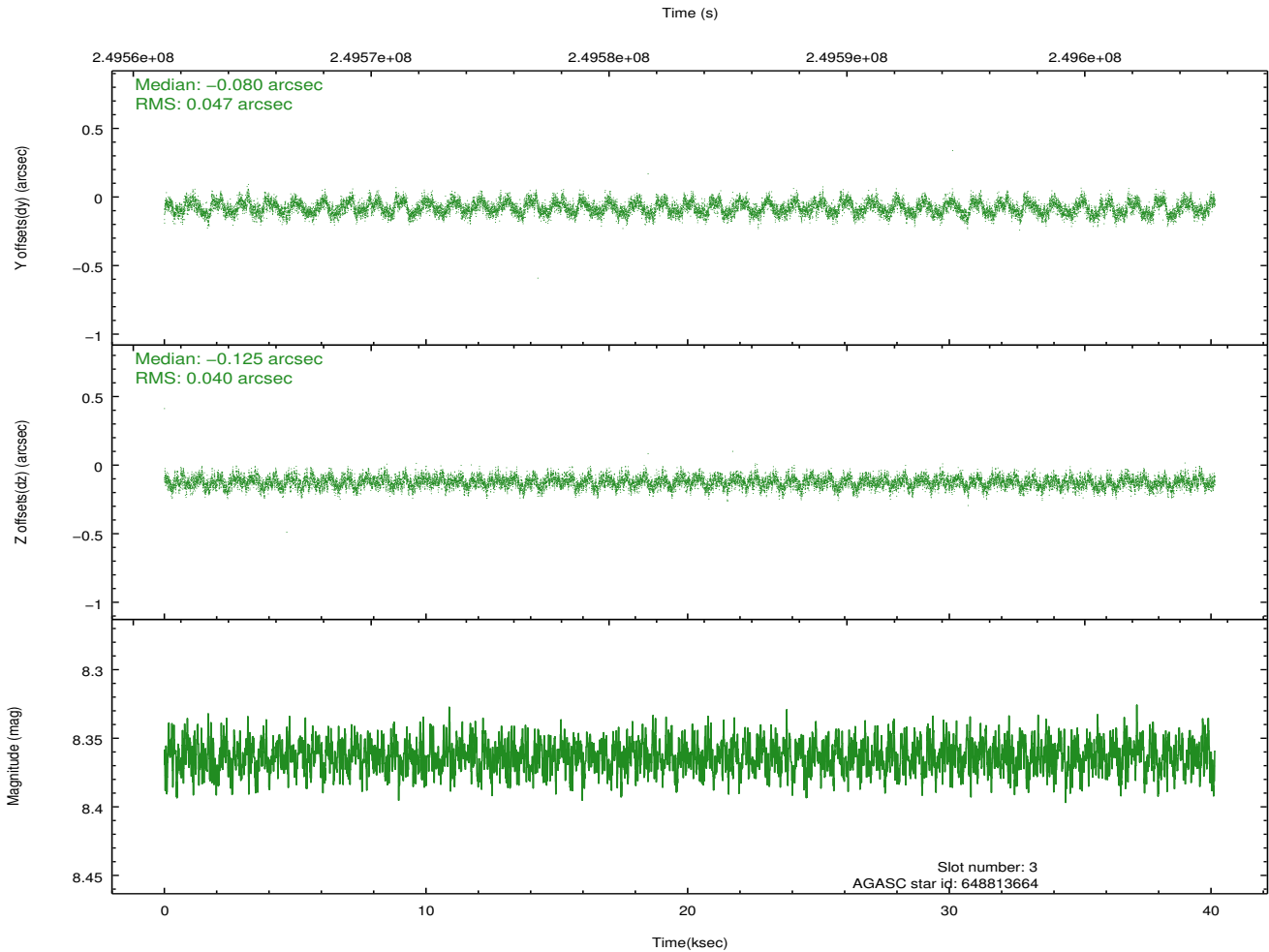
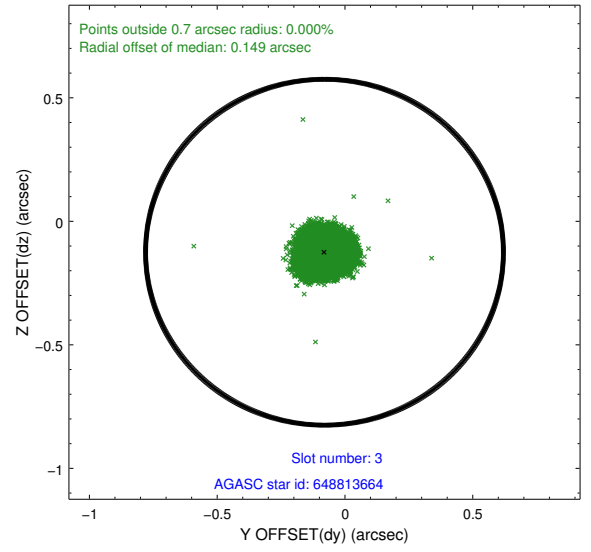
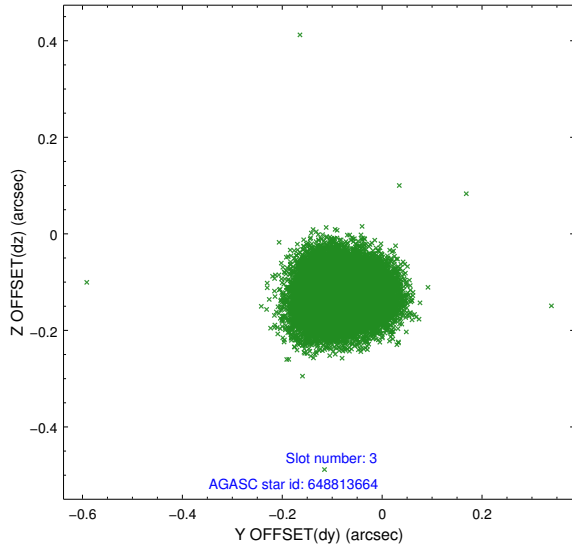


### Slot Statistics

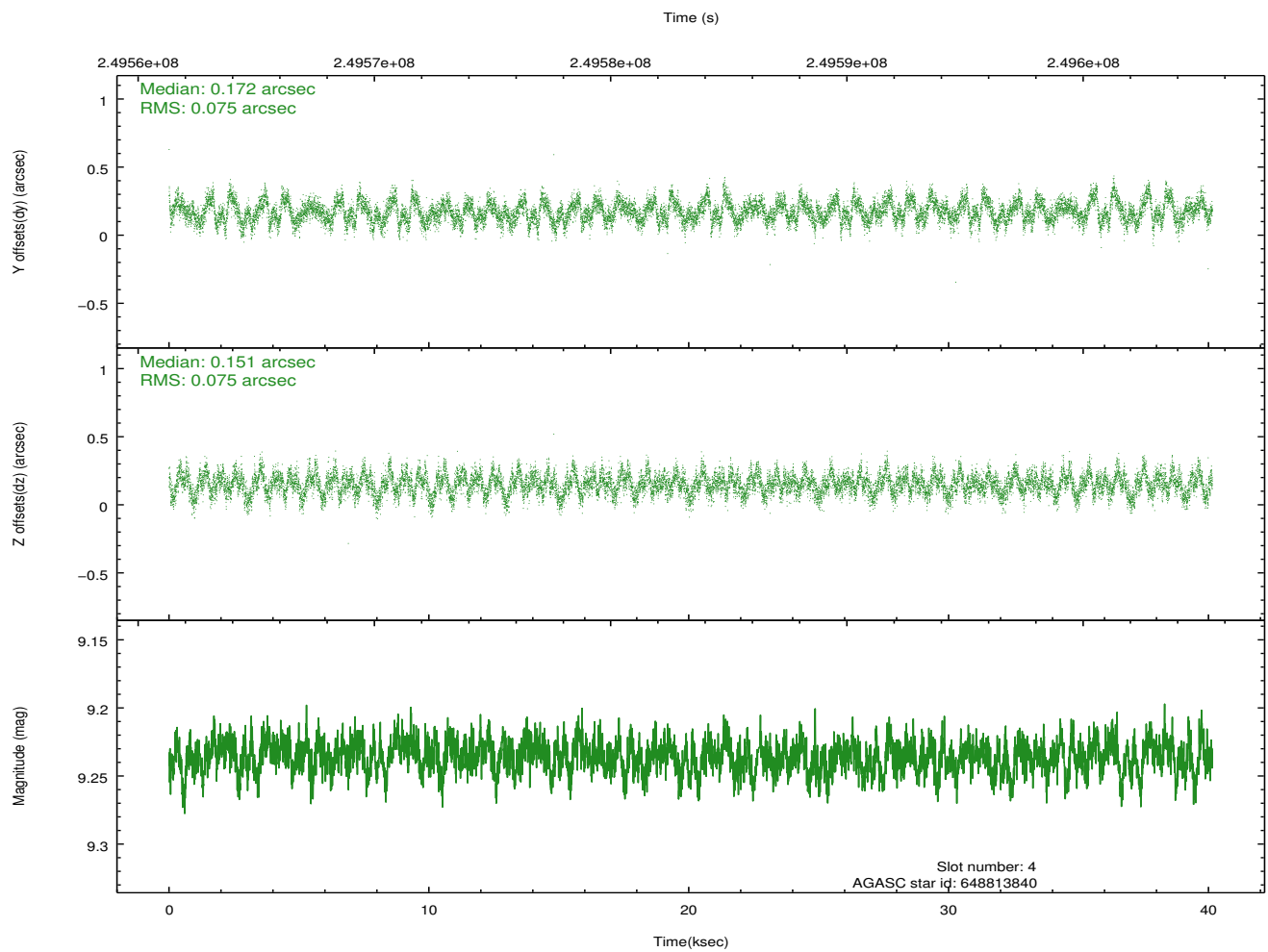
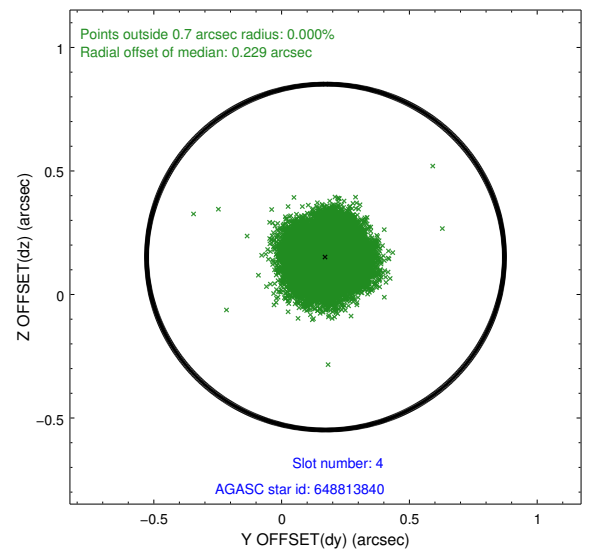
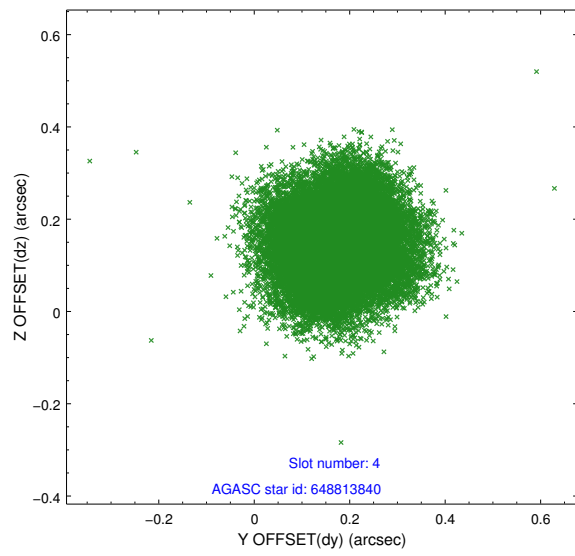
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.23	9789	0.114	-0.091	0.012	0.025	0.000000	0.000000	932.45	-959.29
1	FID	ACIS-I-5	7.22	9788	-0.232	0.105	0.012	0.025	0.000000	0.000000	-1815.96	938.42
2	FID	ACIS-I-6	7.26	9789	0.026	0.059	0.016	0.029	0.000000	0.000000	397.94	1582.87
3	GUIDE	648813664	8.36	19570	-0.080	-0.125	0.067	0.104	194.615044	-1.051809	2156.22	1360.02
4	GUIDE	648813840	9.24	19567	0.172	0.151	0.115	0.177	194.717621	-1.945504	-574.26	-381.39
5	GUIDE	648814560	8.80	19513	-0.155	-0.131	0.066	0.108	194.841018	-1.130344	2258.20	504.83
6	GUIDE	648815800	9.56	19565	0.254	-0.067	0.091	0.148	194.475560	-2.052849	-1302.63	232.50
7	GUIDE	649730488	7.86	19576	-0.198	0.174	0.065	0.103	195.031921	-1.185947	2379.15	-200.30

## 2.4 Star Slots

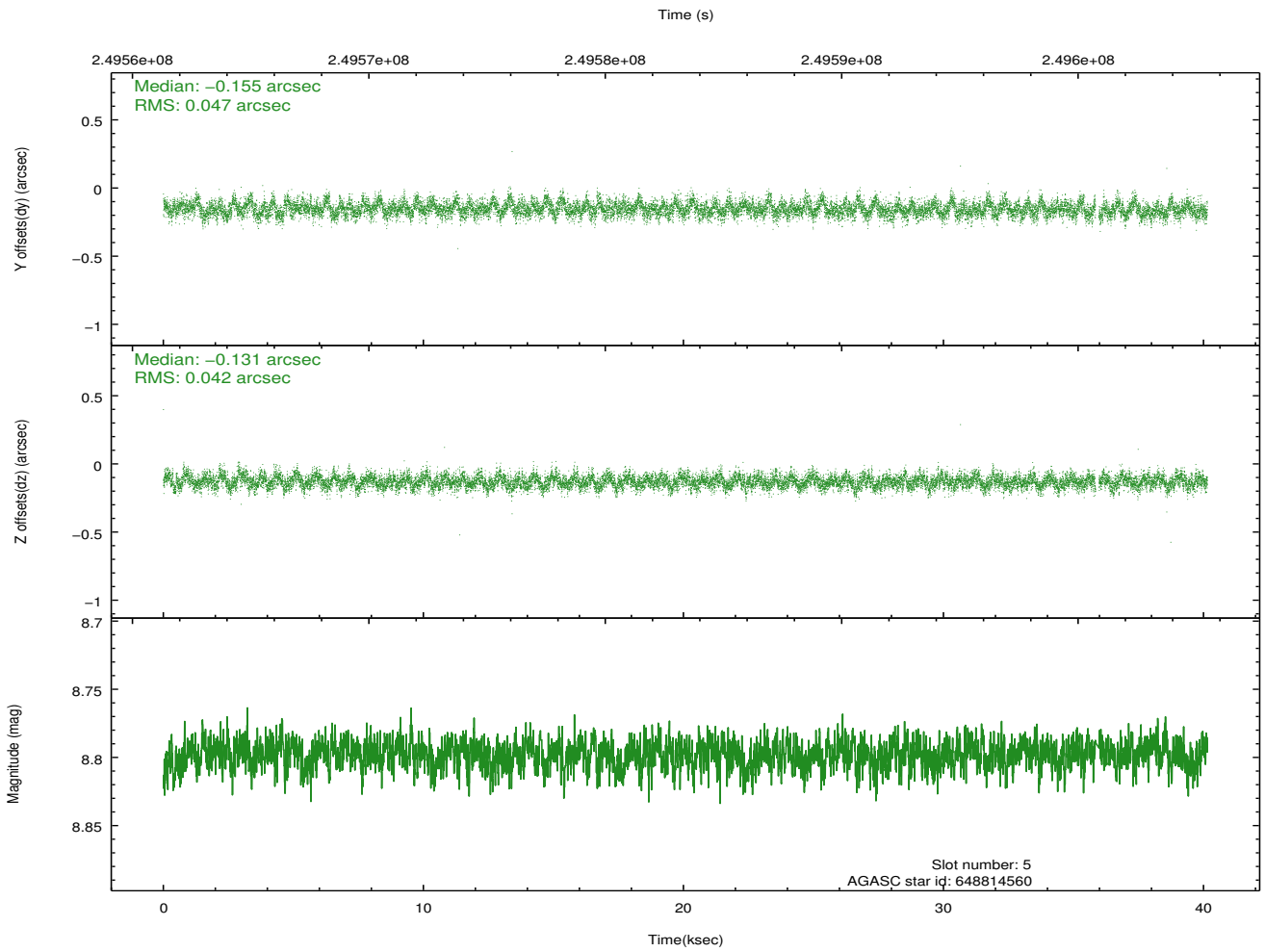
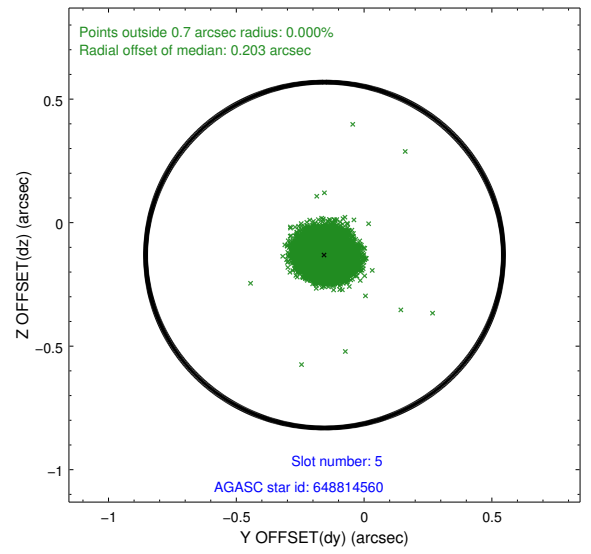
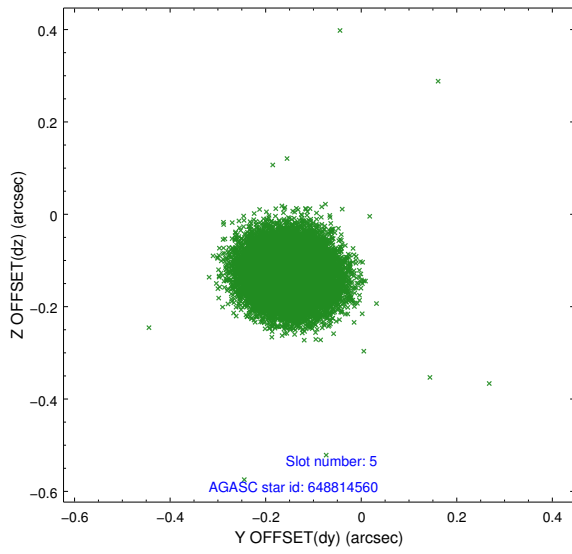
### 2.4.1 Slot 3



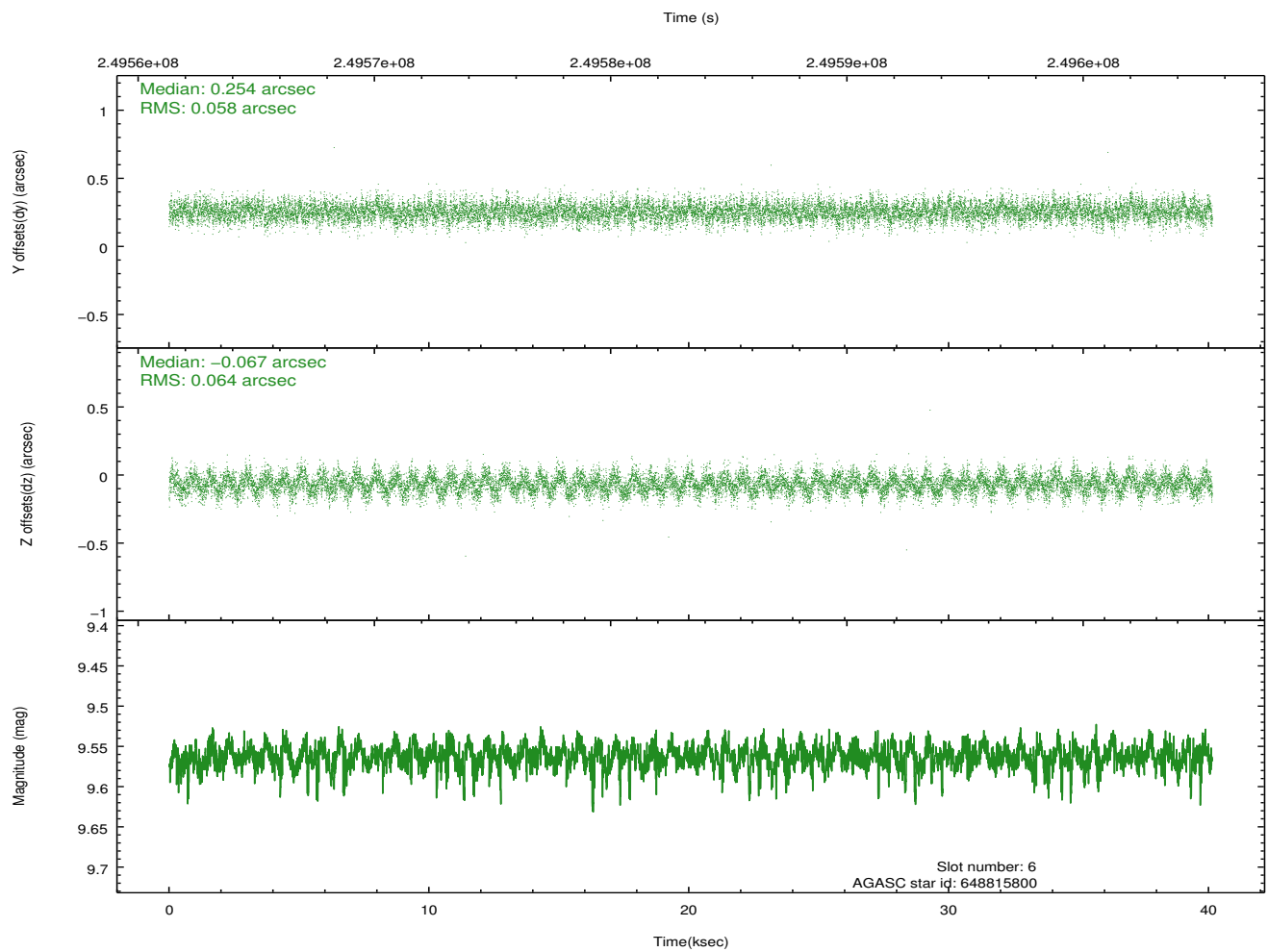
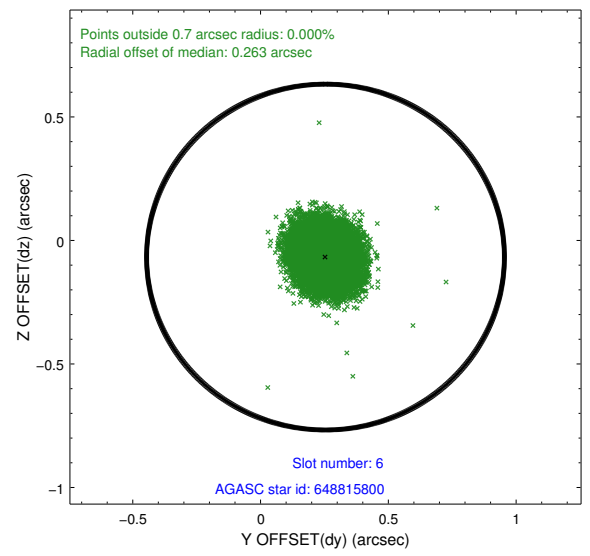
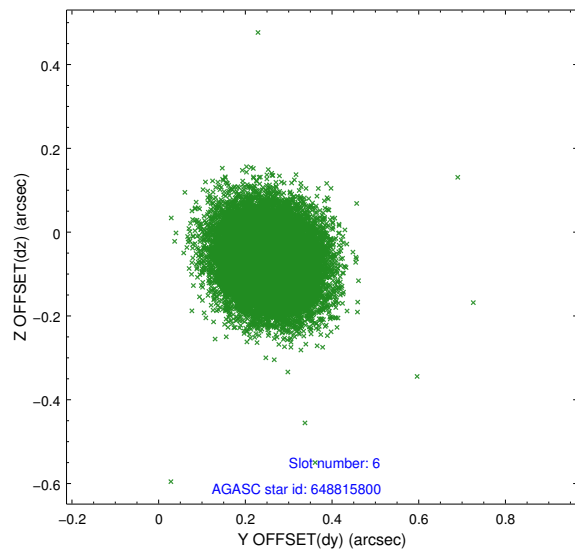
## 2.4.2 Slot 4



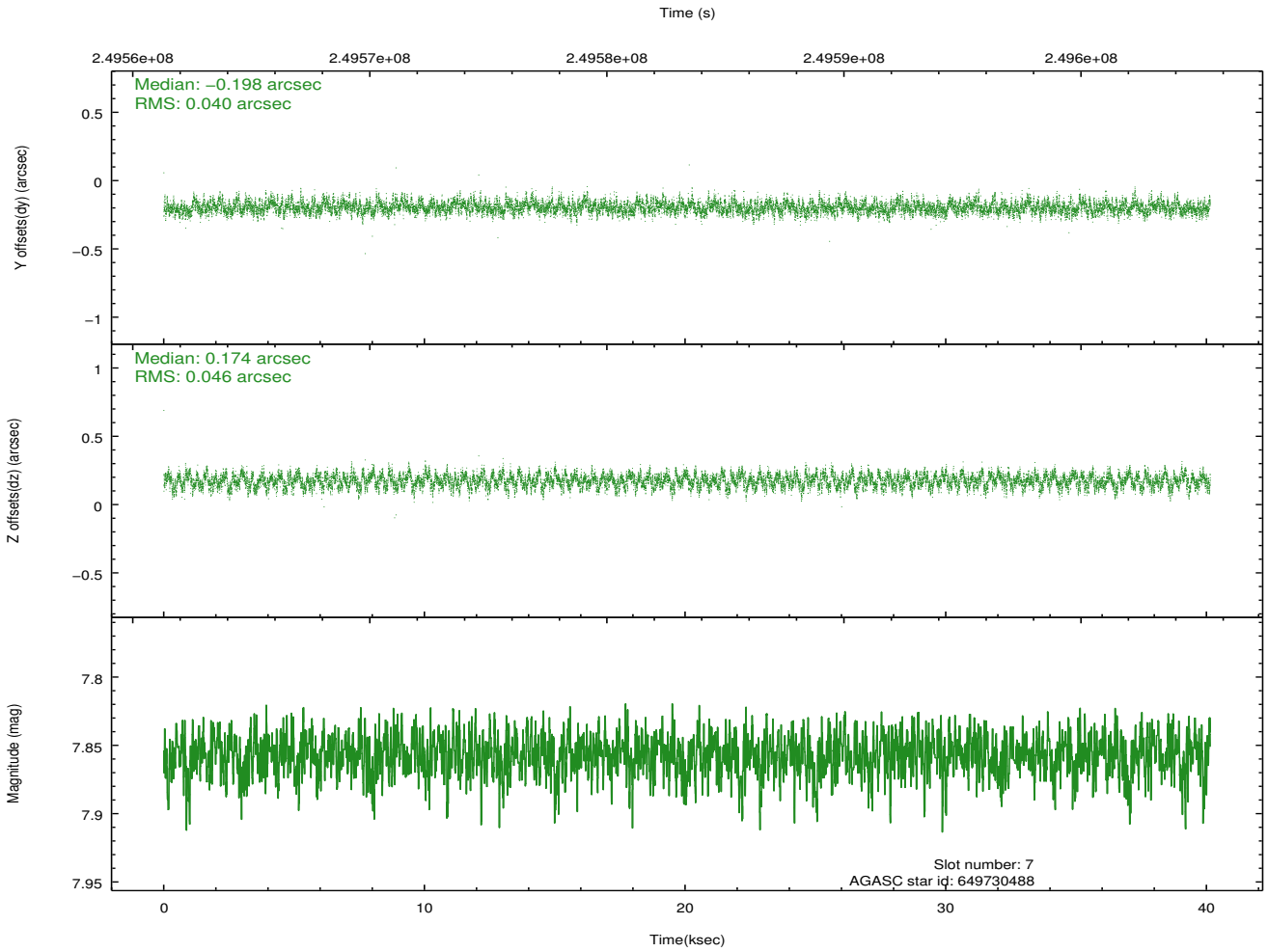
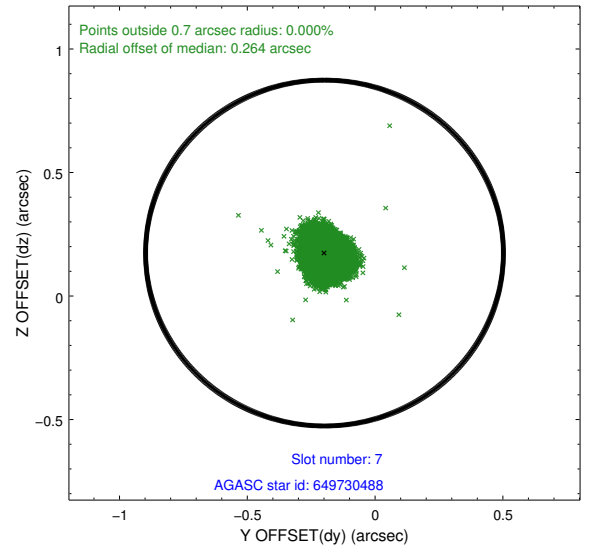
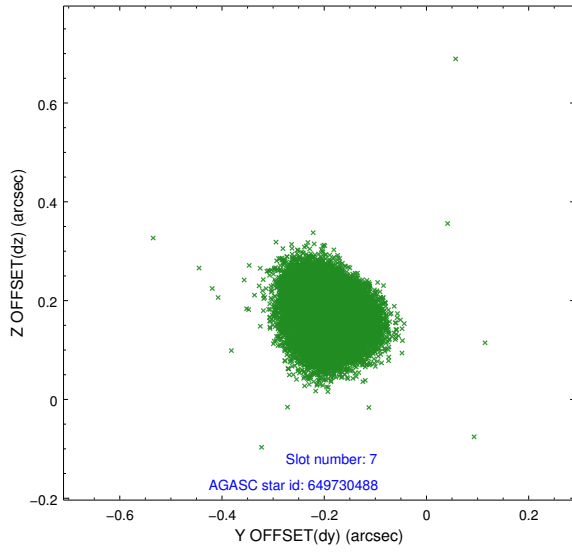
### 2.4.3 Slot 5



## 2.4.4 Slot 6

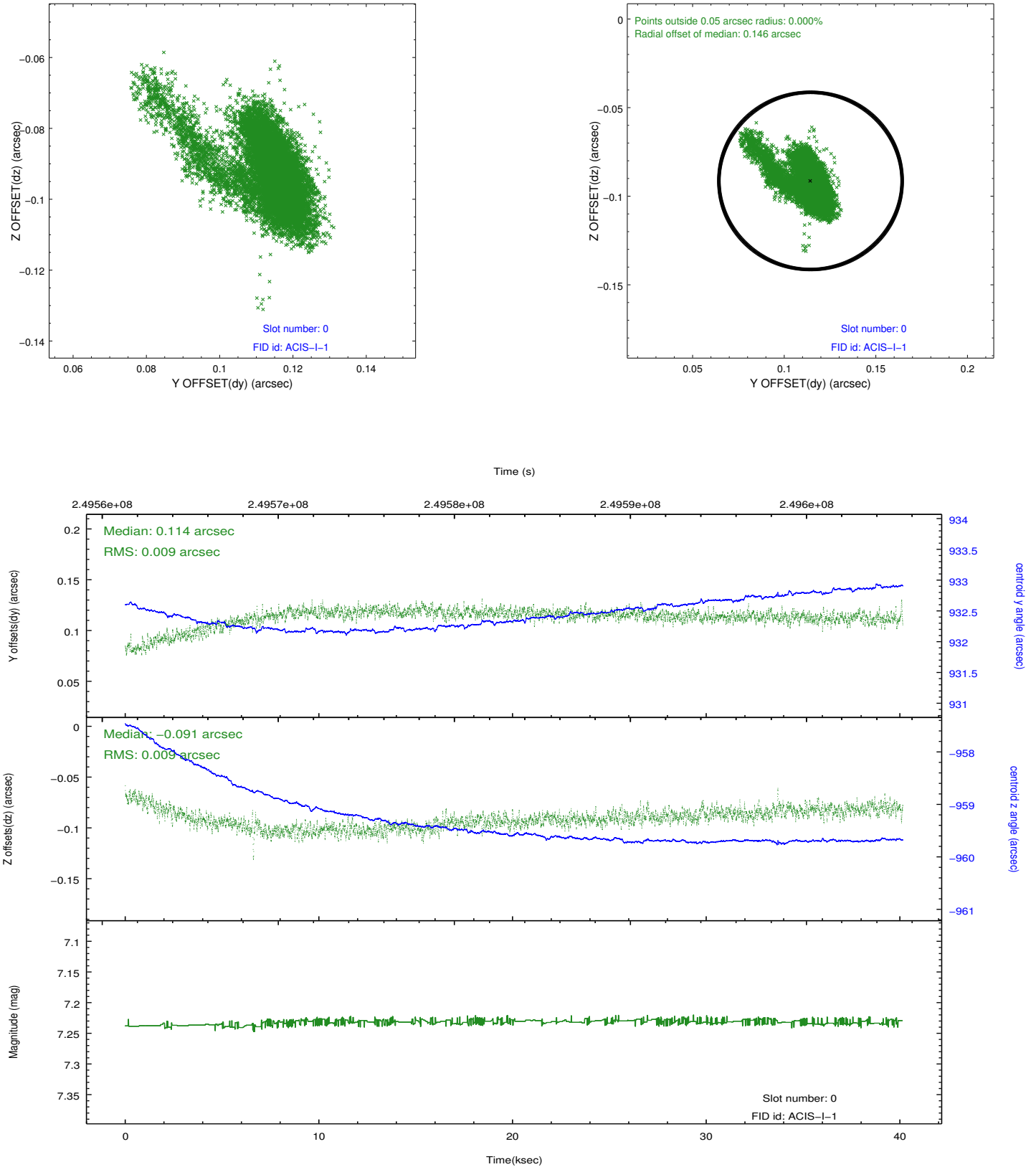


### 2.4.5 Slot 7

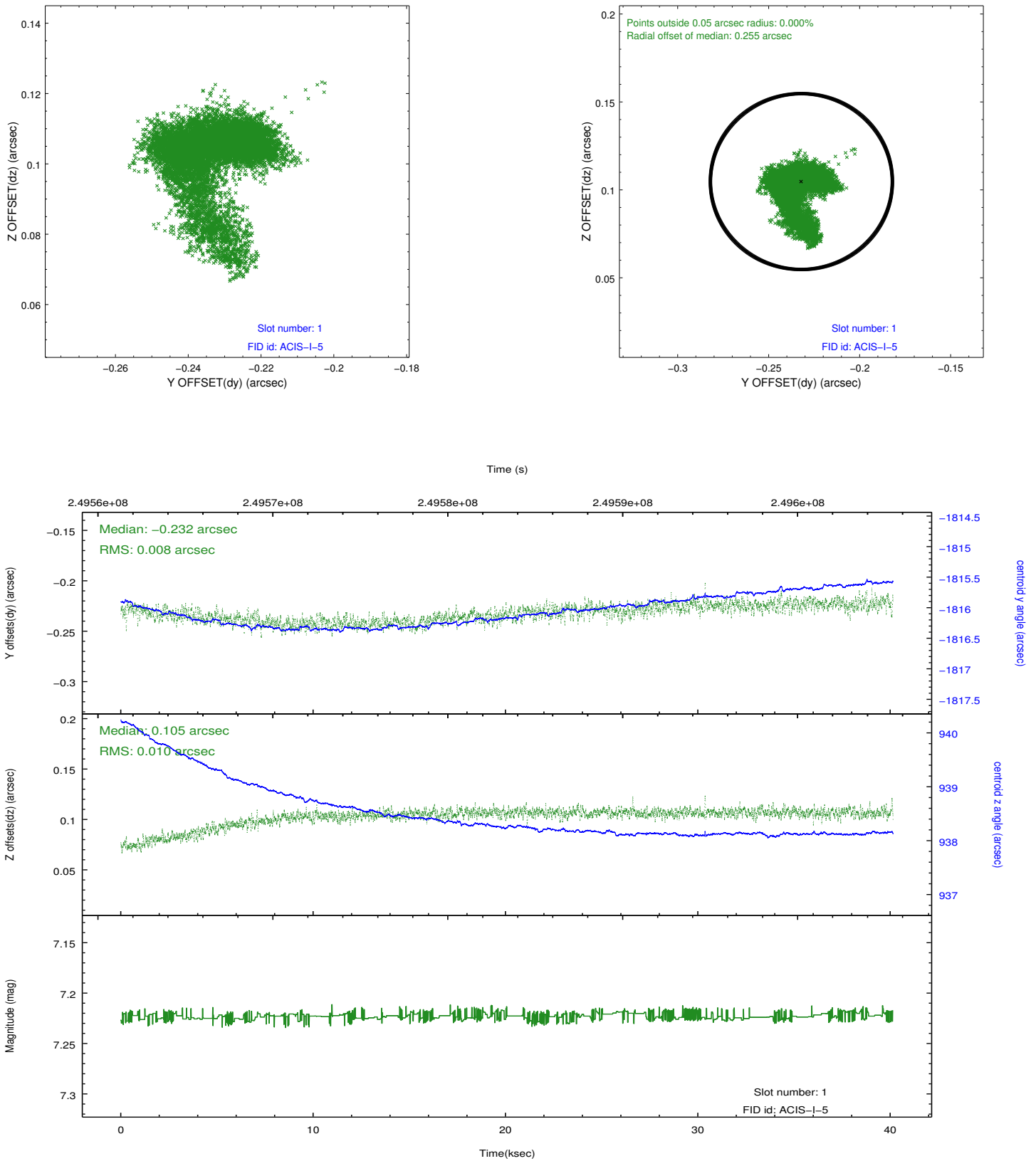


## 2.5 FID Slots

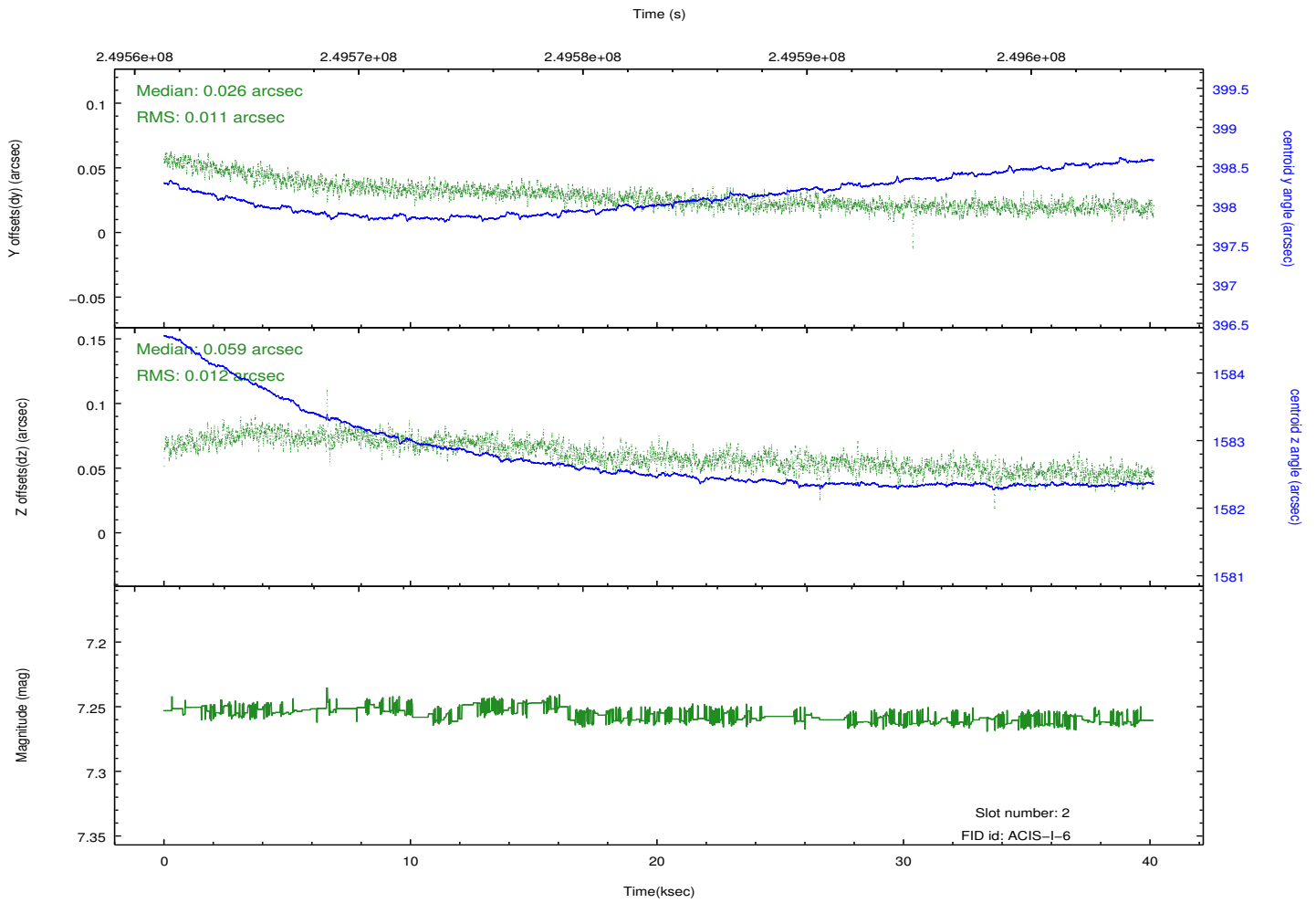
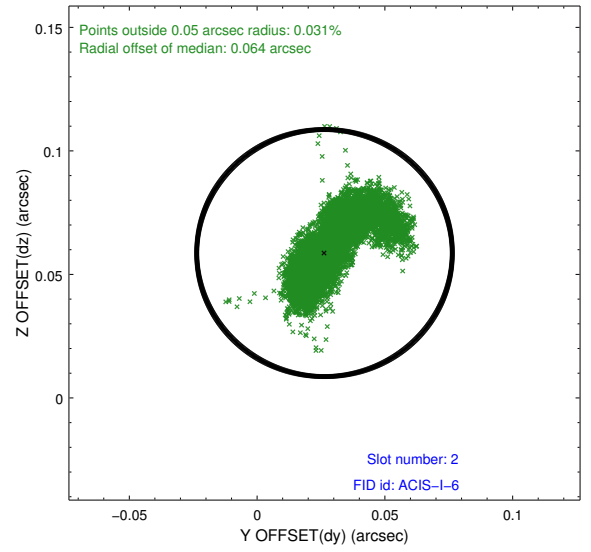
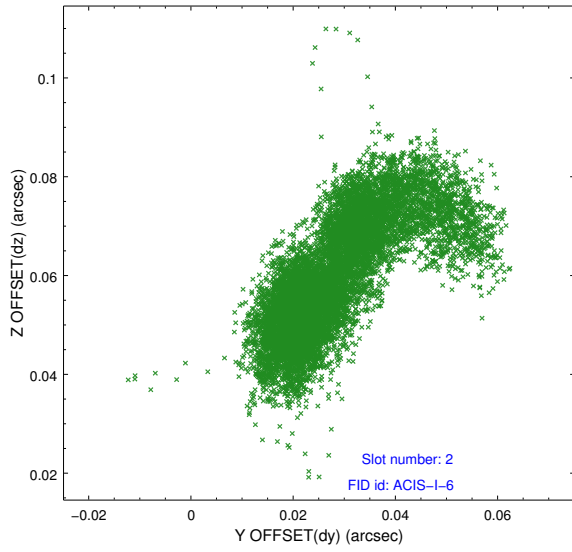
### 2.5.1 Slot 0



## 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)	2012.03.19
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	40.12933

## A.2 Comments