

# V&V Reference Report

## L2 ASCDS Version : 8.4.3

Observation 13552 - L2 Version 3  
Chandra X-Ray Center

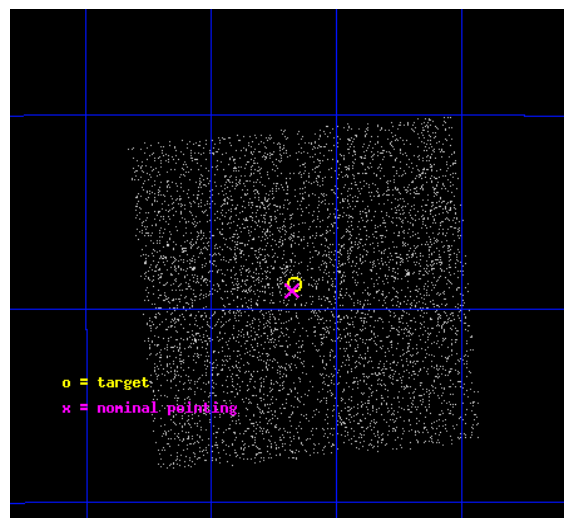
L2 Processing Date : Feb 26 2012

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# 1 Front

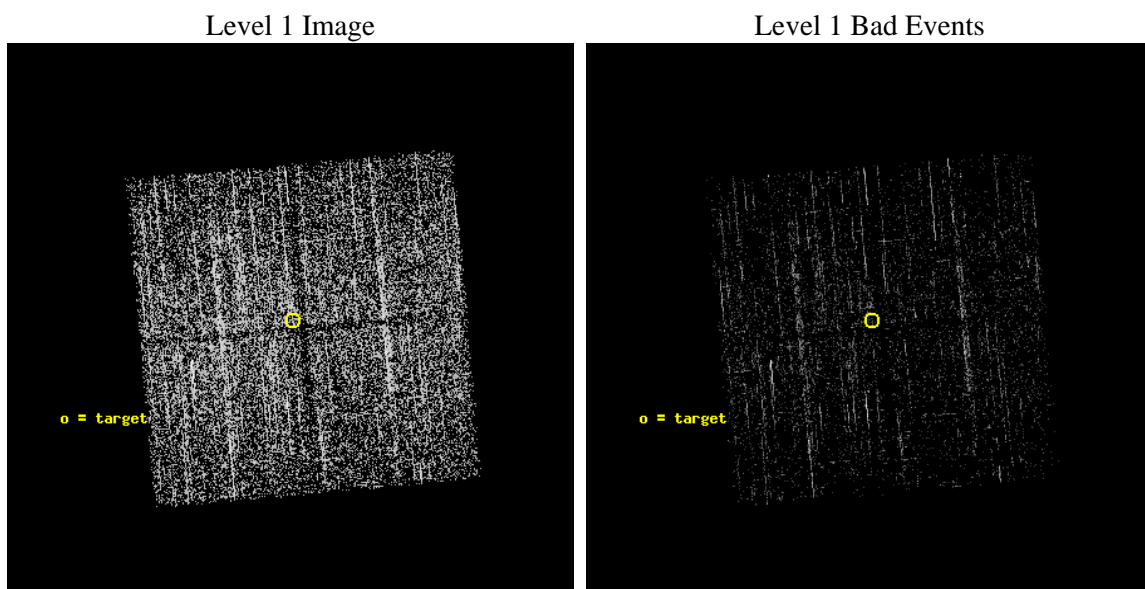
seq_num	401328	Sequence number
obs_id	13552	Observation id
title	Completing the Galactic Bulge Survey: categorizing the plethora of faint X-ray sources in the Galactic Bulge	Proposal title
observer	dr P Jonker	Principal investigator
object	GBS13-3	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	268.792612	Observer's specified target RA [deg]
dec_targ	-29.146011	Observer's specified target Dec [deg]
ra_nom	268.79465694669	Nominal RA [deg]
dec_nom	-29.151185492528	Nominal Dec [deg]
roll_nom	264.82108048895	Nominal Roll [deg]
revision	3	Processing version of data
ontime	1973.2342457771	Sum of GTIs [s]
livetime	1947.4524876821	Livetime [s]
ontime0	1973.1111257672	Sum of GTIs [s]
ontime1	1973.1521657705	Sum of GTIs [s]
ontime2	1973.1932057738	Sum of GTIs [s]
ontime3	1973.2342457771	Sum of GTIs [s]
l2events	5761	Number of level 2 events



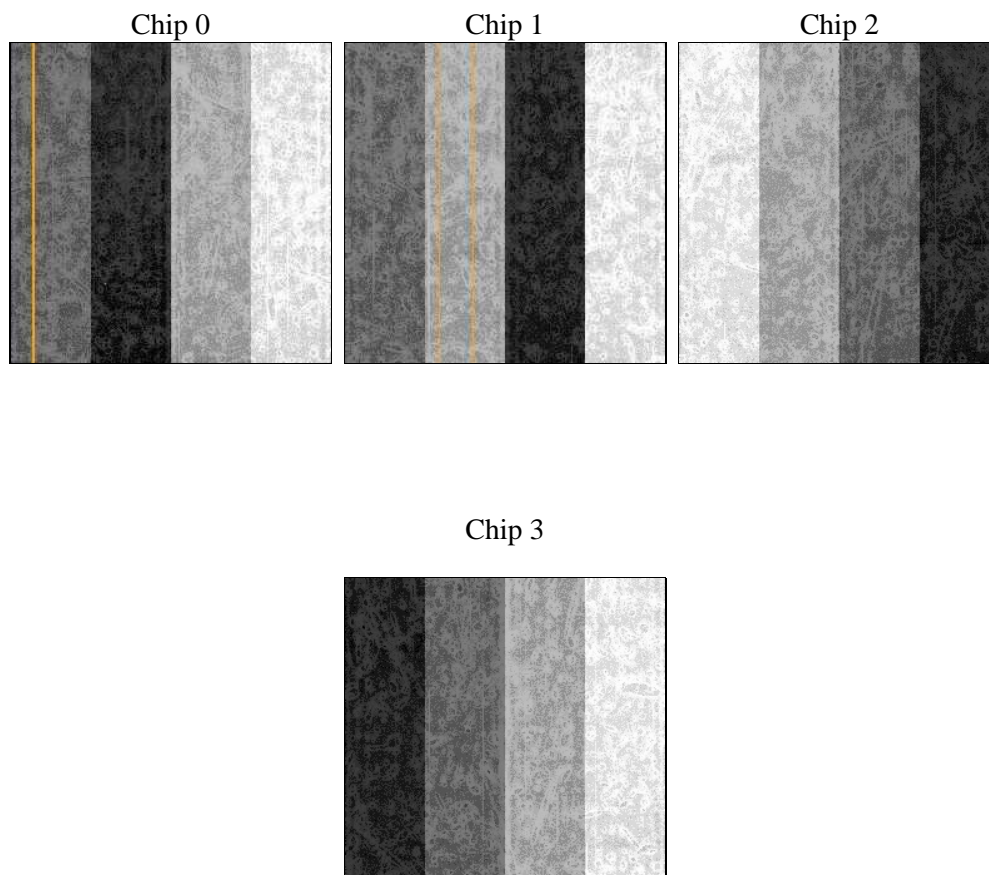
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2180.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	1973.2342457771	Sum of GTIs [s]
caldsver	4.4.8	&#160	ontime0	1973.1111257672	Sum of GTIs [s]
date	2012-02-26T22:08:29	Date and time of file creation	ontime1	1973.1521657705	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	1973.1932057738	Sum of GTIs [s]
			ontime3	1973.2342457771	Sum of GTIs [s]
			l1events	45924	Number of level 1 events

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	10170	10936	12302	12516
rejected events	8519	9194	10609	10866
rejected %	83%	84%	86%	86%

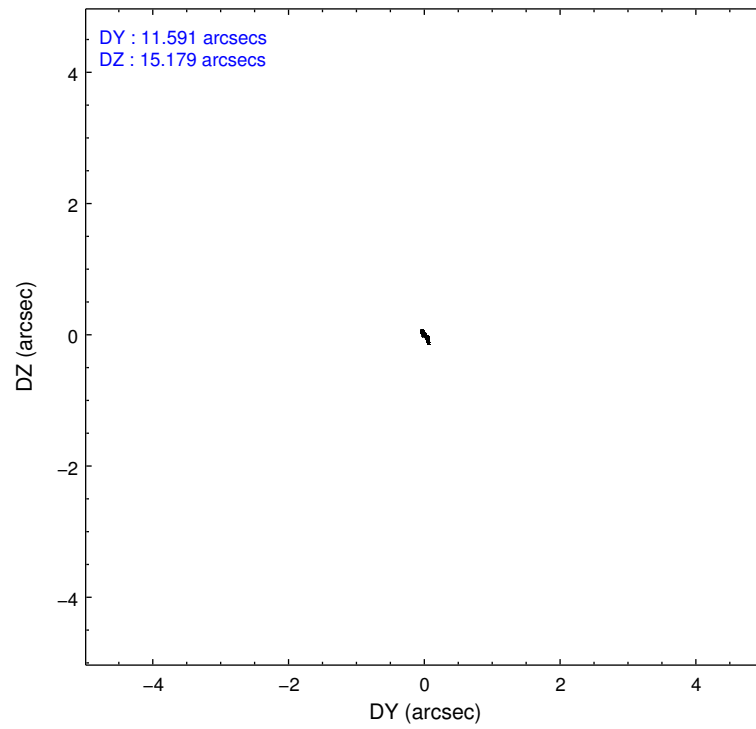
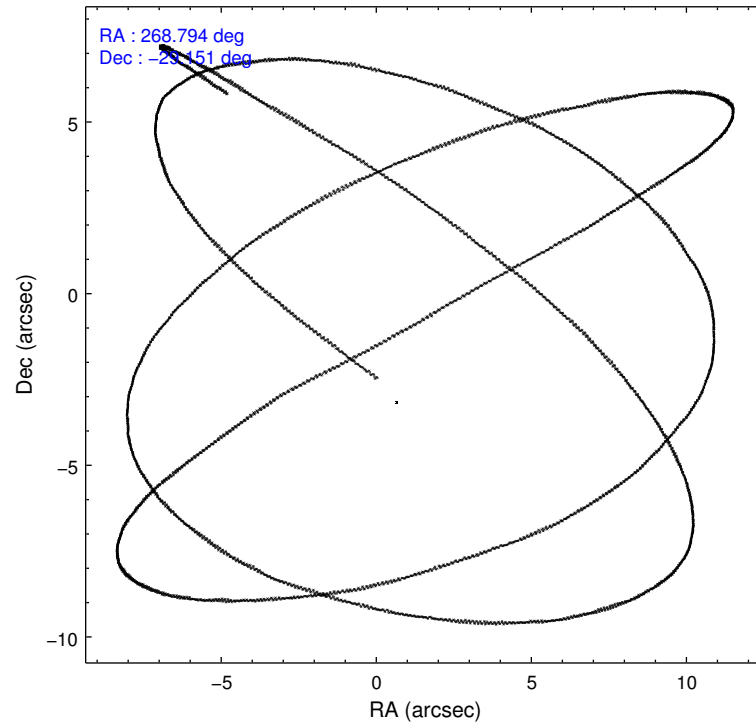
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	778	772	771	752
	7%	7%	6%	6%
grade 1 events	3	6	9	4
	0%	0%	0%	0%
grade 2 events	326	361	368	335
	3%	3%	2%	2%
grade 3 events	161	154	142	155
	1%	1%	1%	1%
grade 4 events	142	166	160	164
	1%	1%	1%	1%
grade 5 events	524	561	509	597
	5%	5%	4%	4%
grade 6 events	250	294	256	248
	2%	2%	2%	1%
grade 7 events	7986	8622	10087	10261
	78%	78%	81%	81%

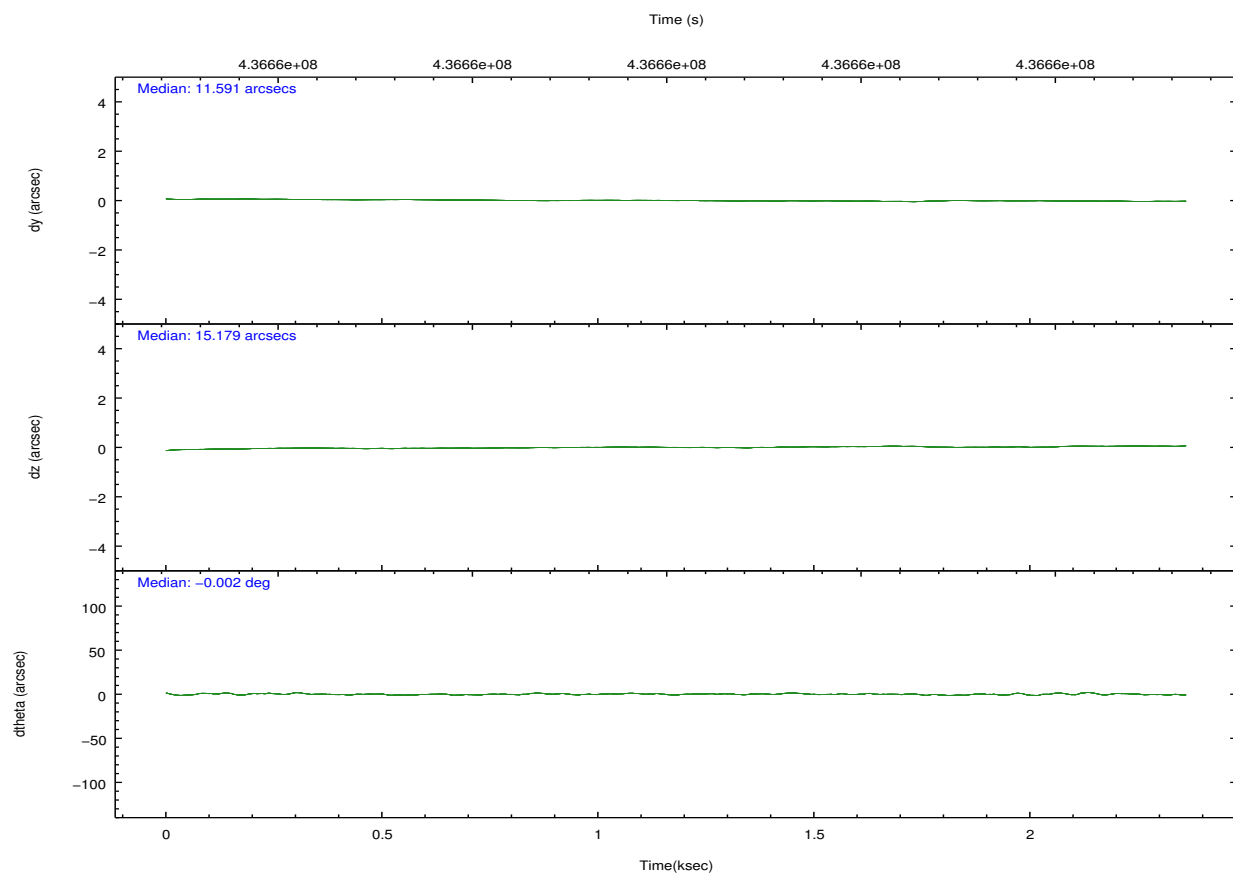
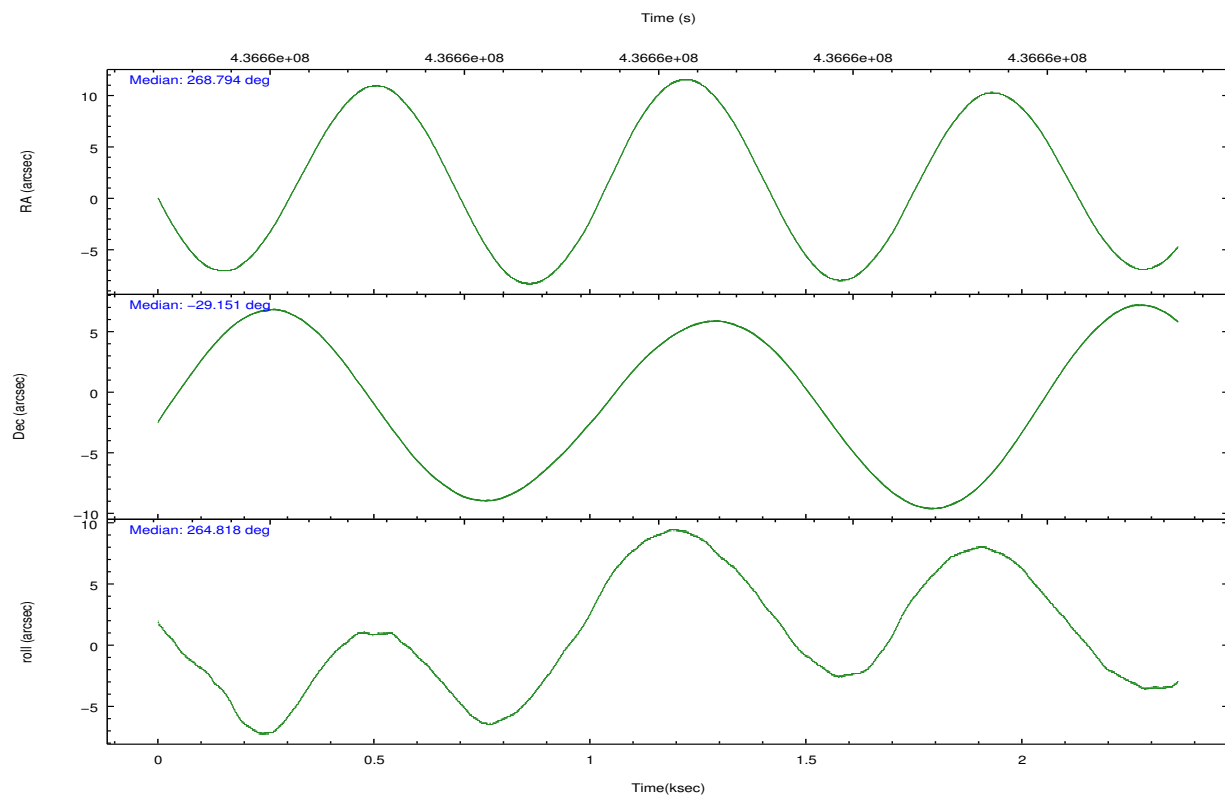
## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-0123	ACIS-0123
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	268.781494	268.7946569466856
[deg] Pointing Dec	-29.126510	-29.15118549252759
[deg] Pointing Roll	264.605981	264.8210804889497
[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)	436660022.184000	436659646.6142
Observation start date	2011-11-02T22:25:56	2011-11-02T22:20:46
[s] Observation end time (MET)	436662202.184000	436662336.21434
Observation end date	2011-11-02T23:02:16	2011-11-02T23:05:36
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect





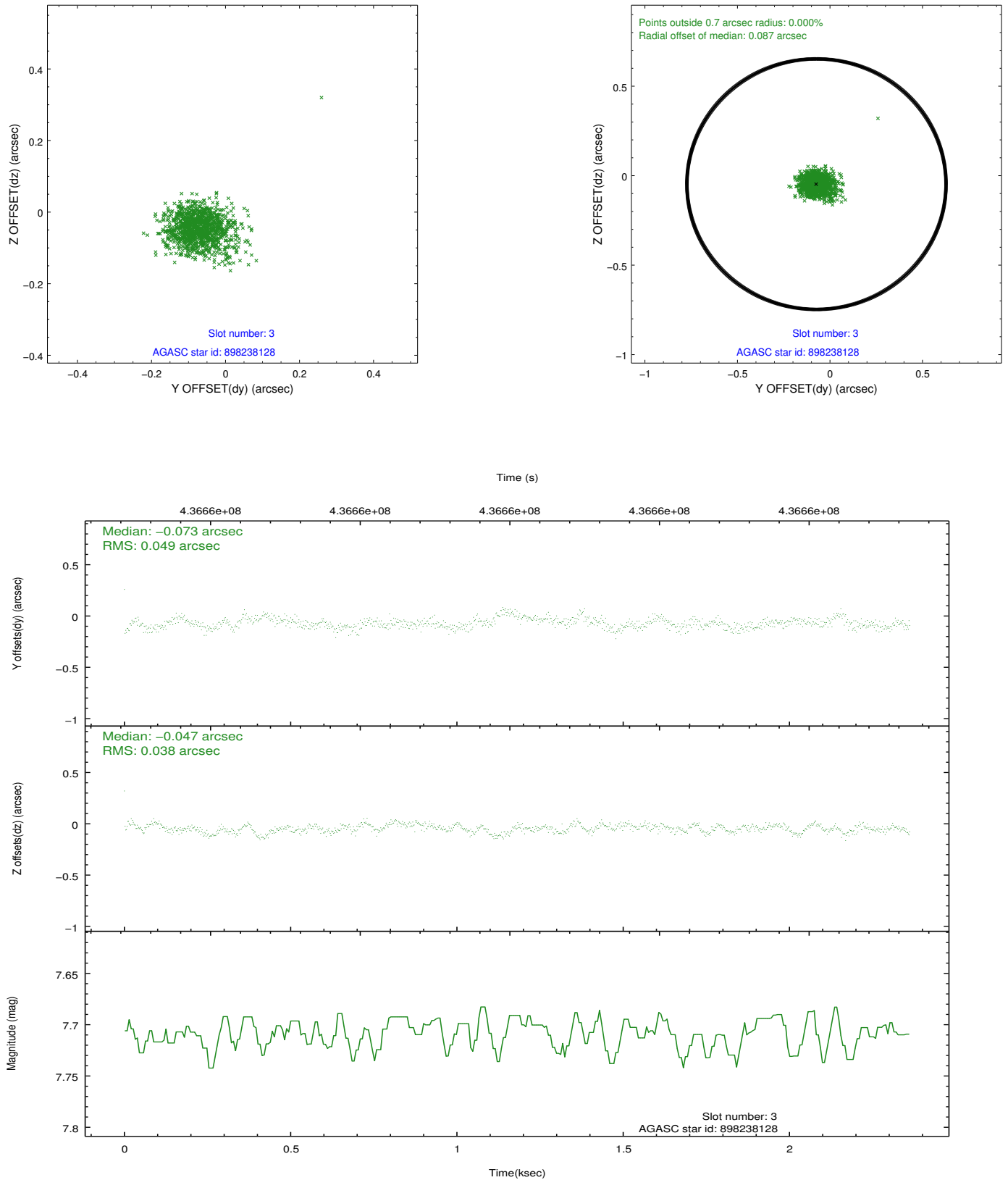
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-2	6.94	576	-0.092	-0.109	0.008	0.015	0.000000	0.000000	-766.30	-845.26
1	FID	ACIS-I-4	6.96	576	0.184	0.085	0.006	0.010	0.000000	0.000000	2146.76	1059.73
2	FID	ACIS-I-5	7.02	576	-0.193	0.093	0.008	0.015	0.000000	0.000000	-1816.71	1060.70
3	GUIDE	898238128	7.71	1153	-0.073	-0.047	0.063	0.109	268.450740	-28.688500	-1469.10	-1187.28
4	GUIDE	898243064	8.73	1153	-0.008	-0.063	0.084	0.127	268.852106	-29.678564	1957.81	406.73
5	GUIDE	898250872	7.09	1152	0.119	-0.049	0.065	0.109	268.026303	-29.632040	2044.72	-2179.66
6	OMITTED		0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00
7	GUIDE	898267256	9.38	1147	-0.029	0.160	0.143	0.223	269.153744	-29.049851	-380.25	1139.65

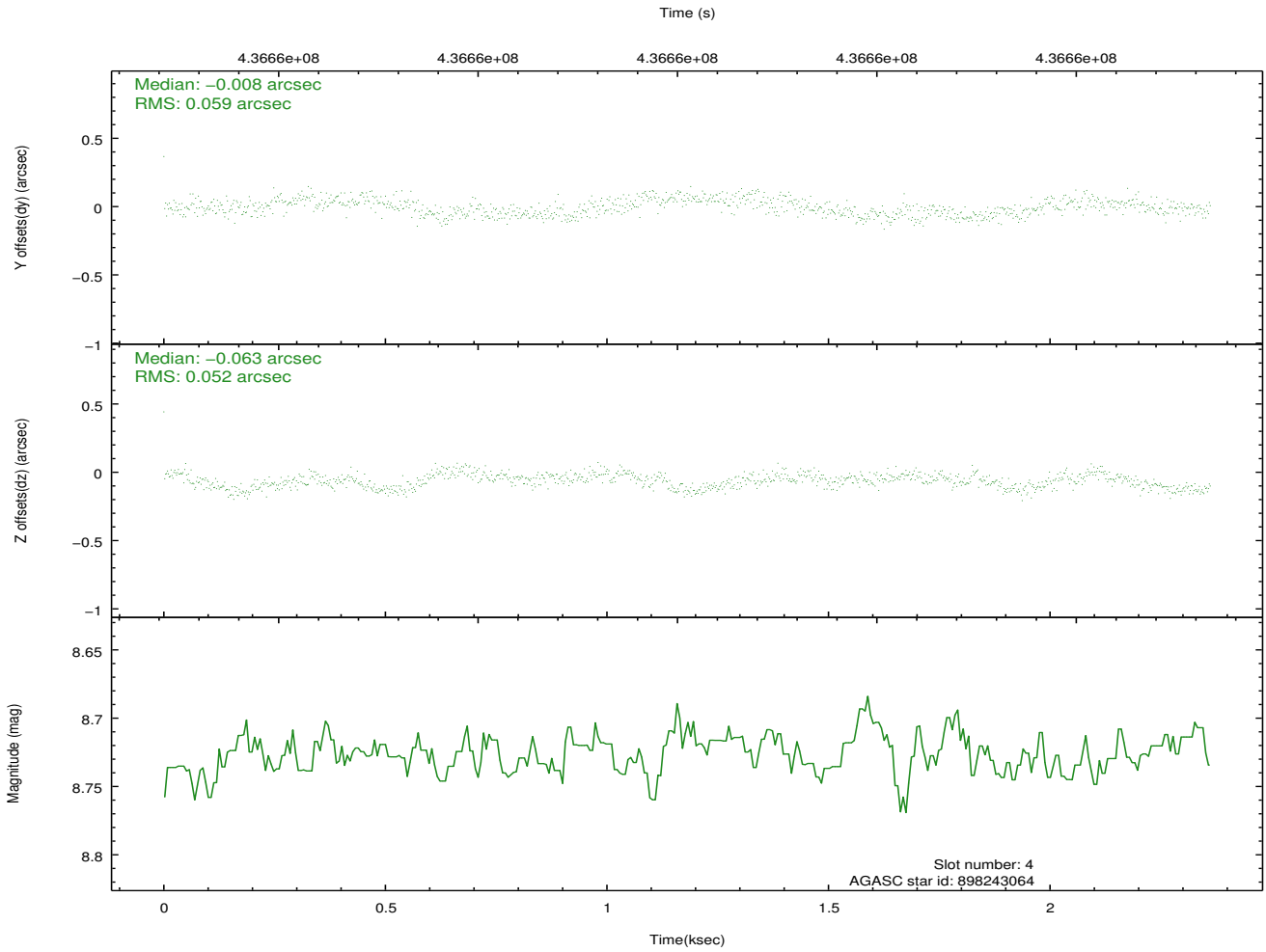
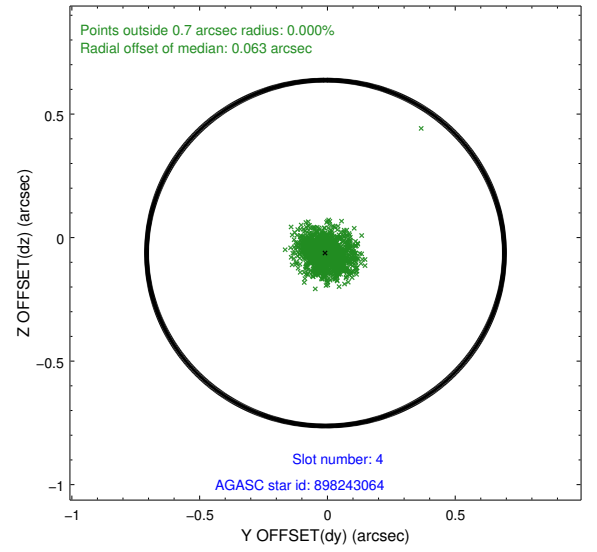
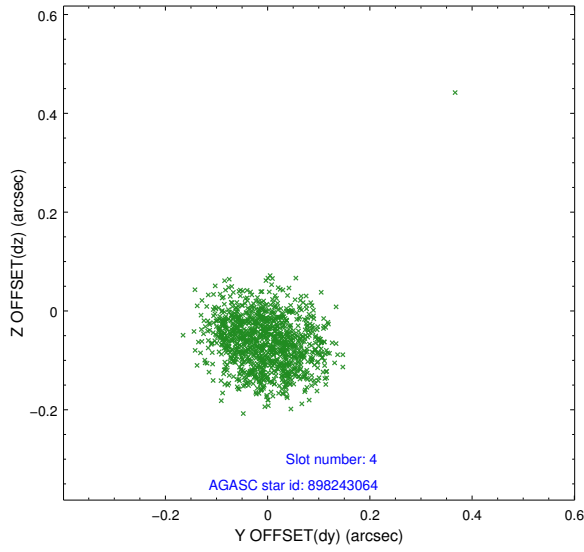


## 2.4 Star Slots

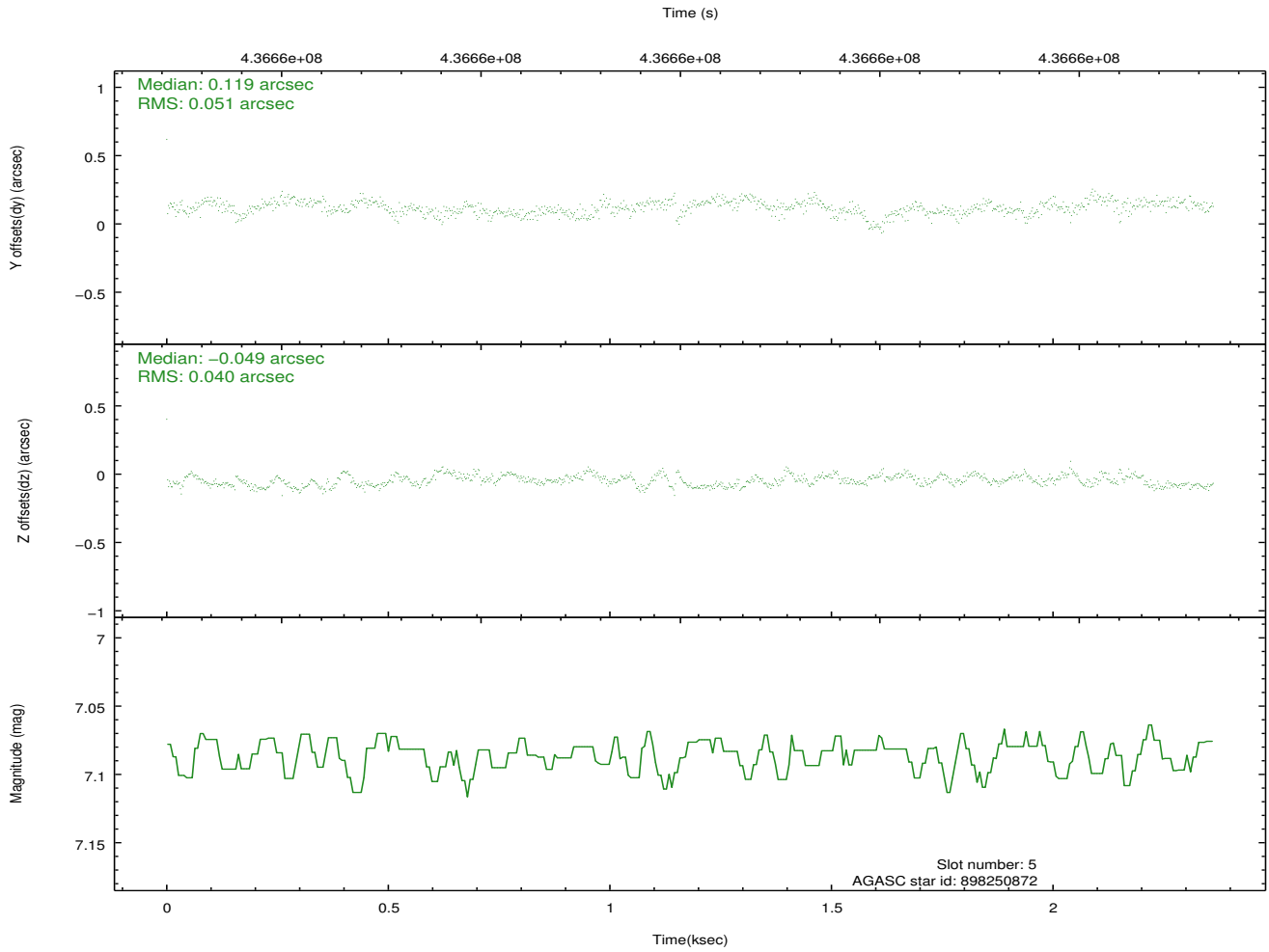
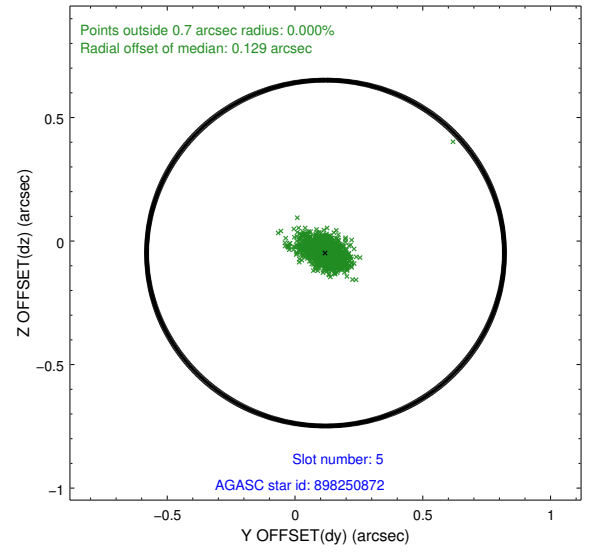
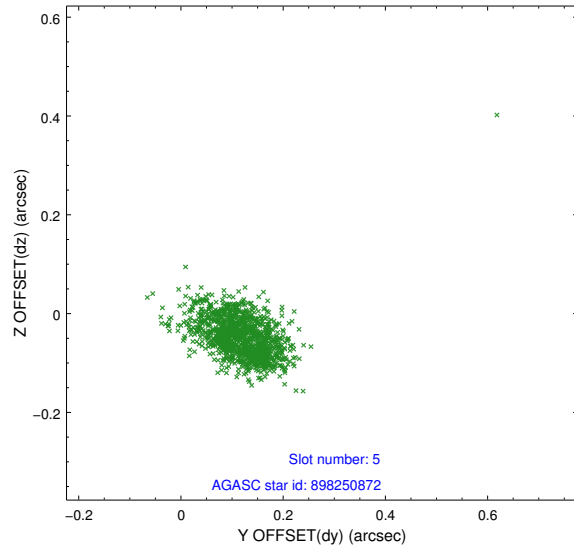
### 2.4.1 Slot 3



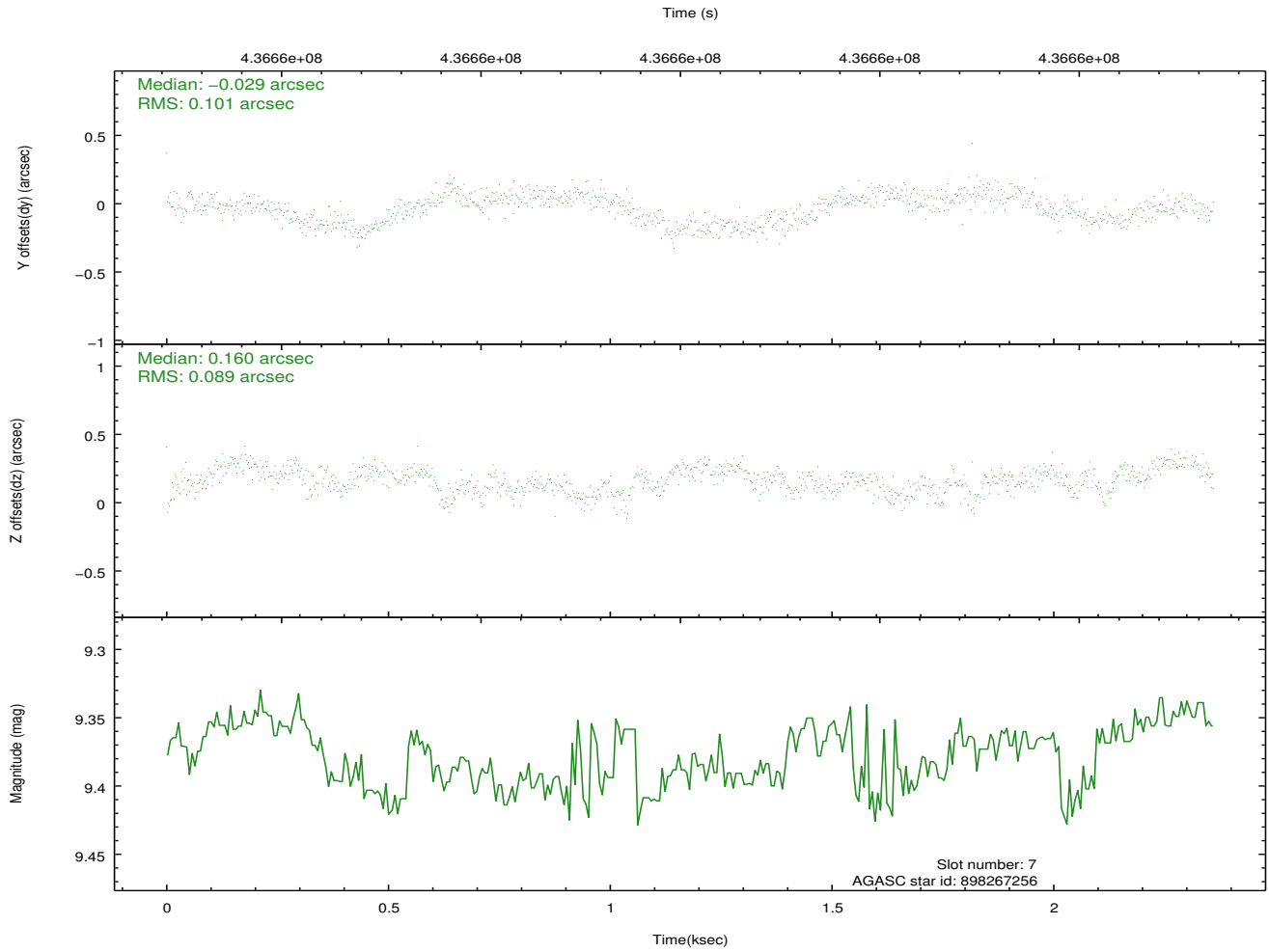
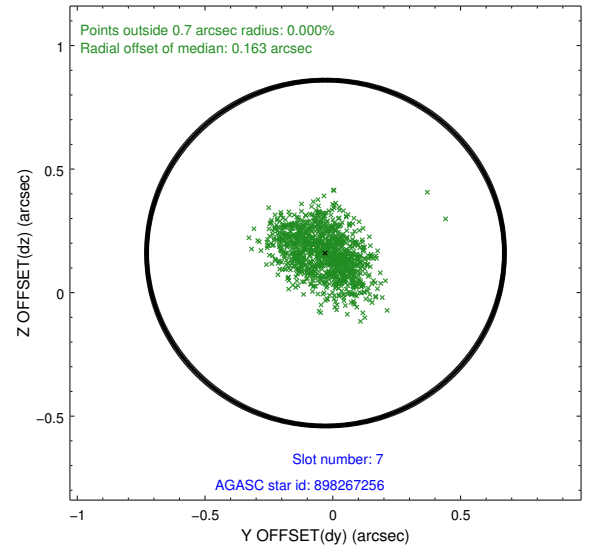
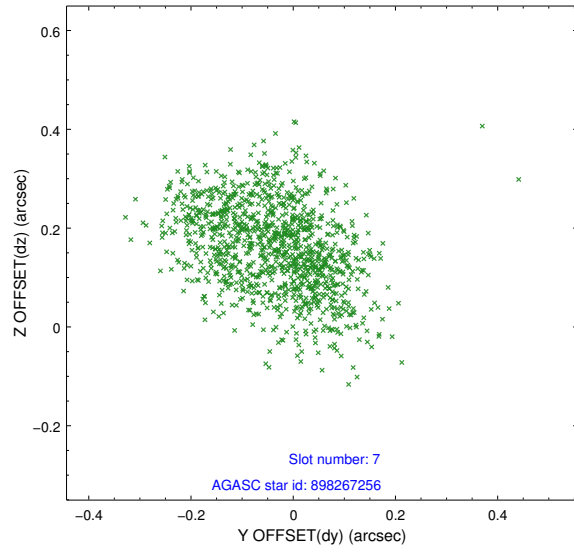
## 2.4.2 Slot 4



### 2.4.3 Slot 5

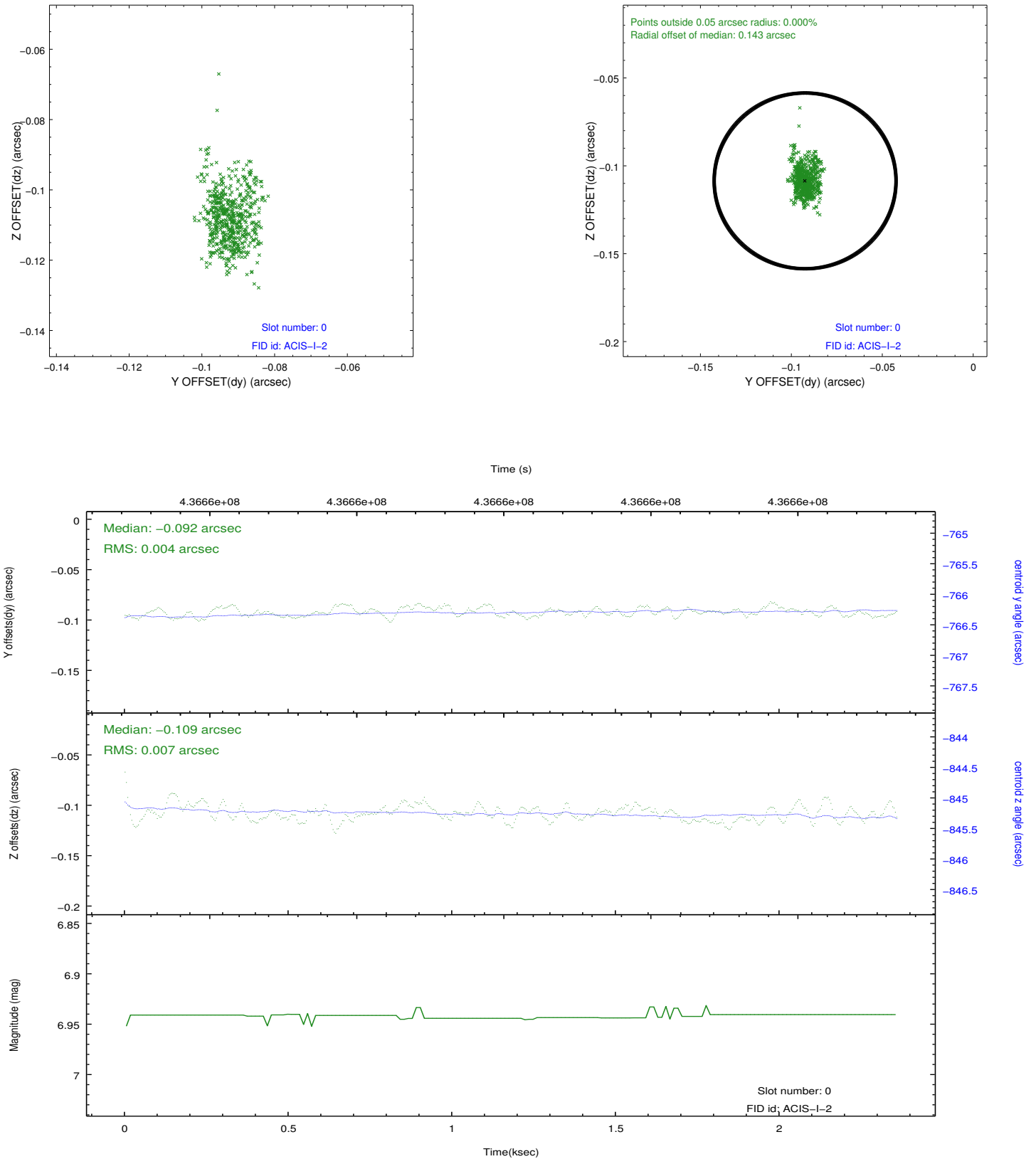


## 2.4.4 Slot 7

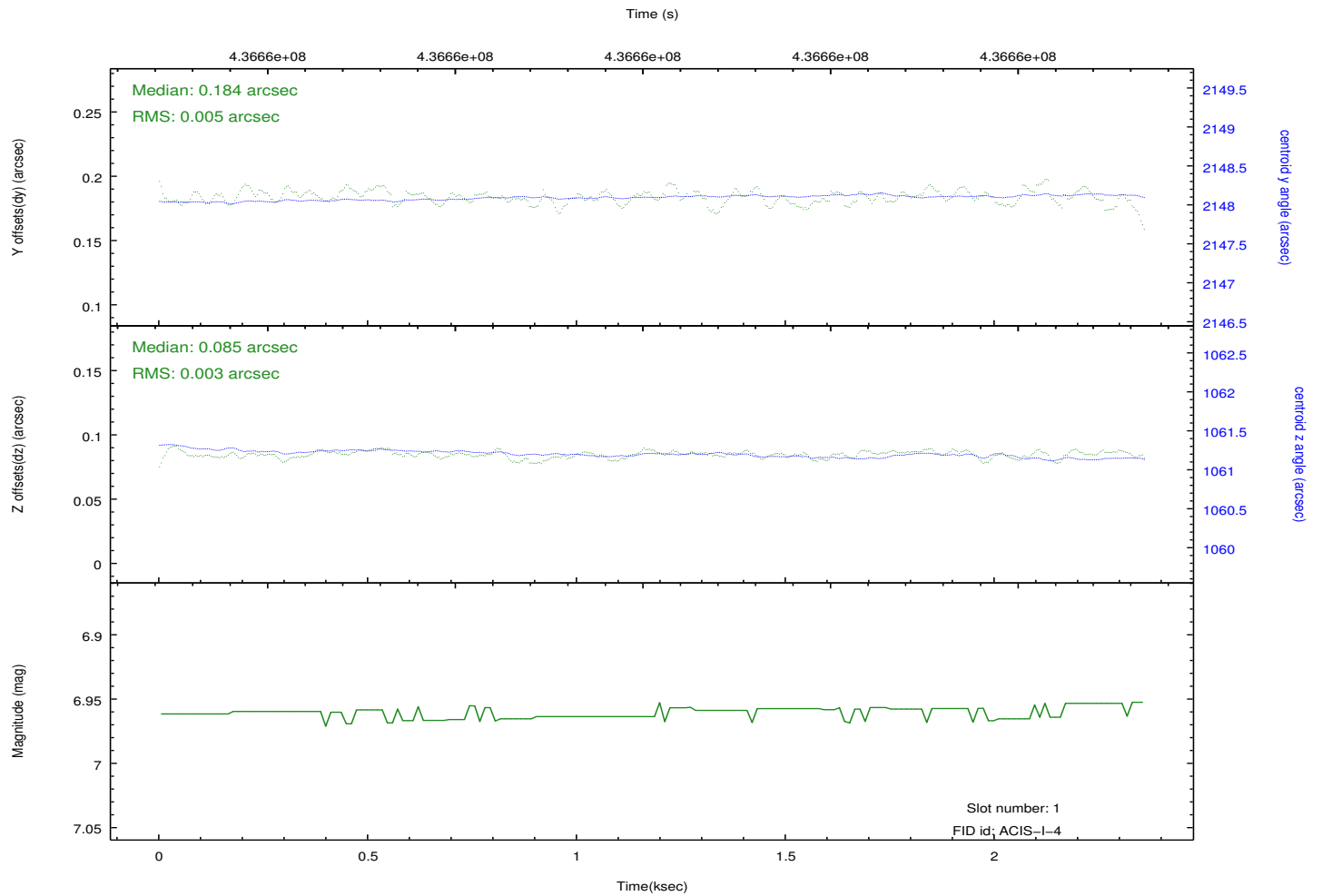
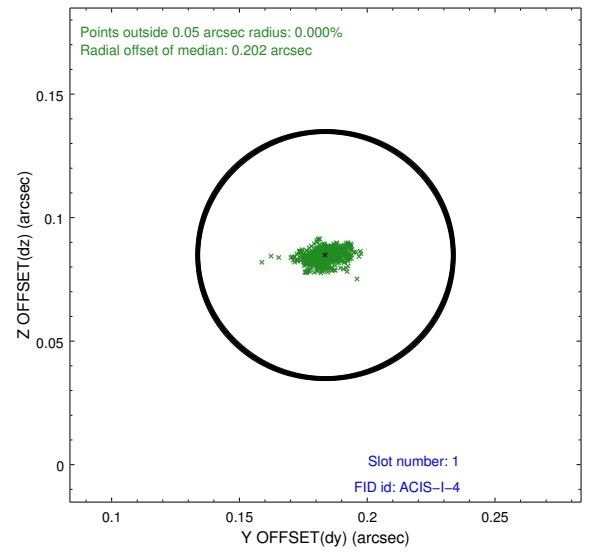
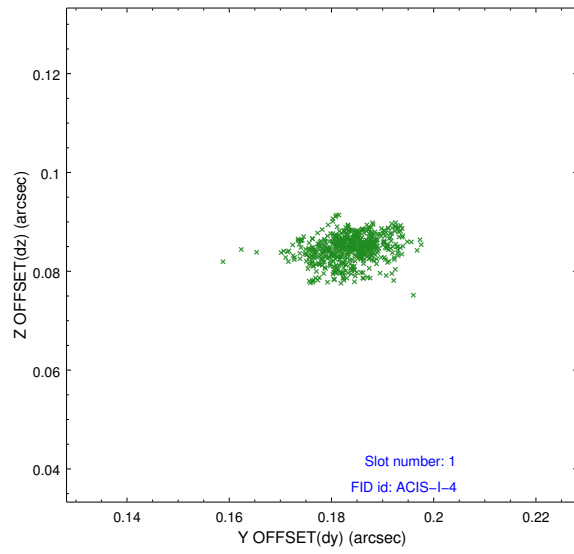


## 2.5 FID Slots

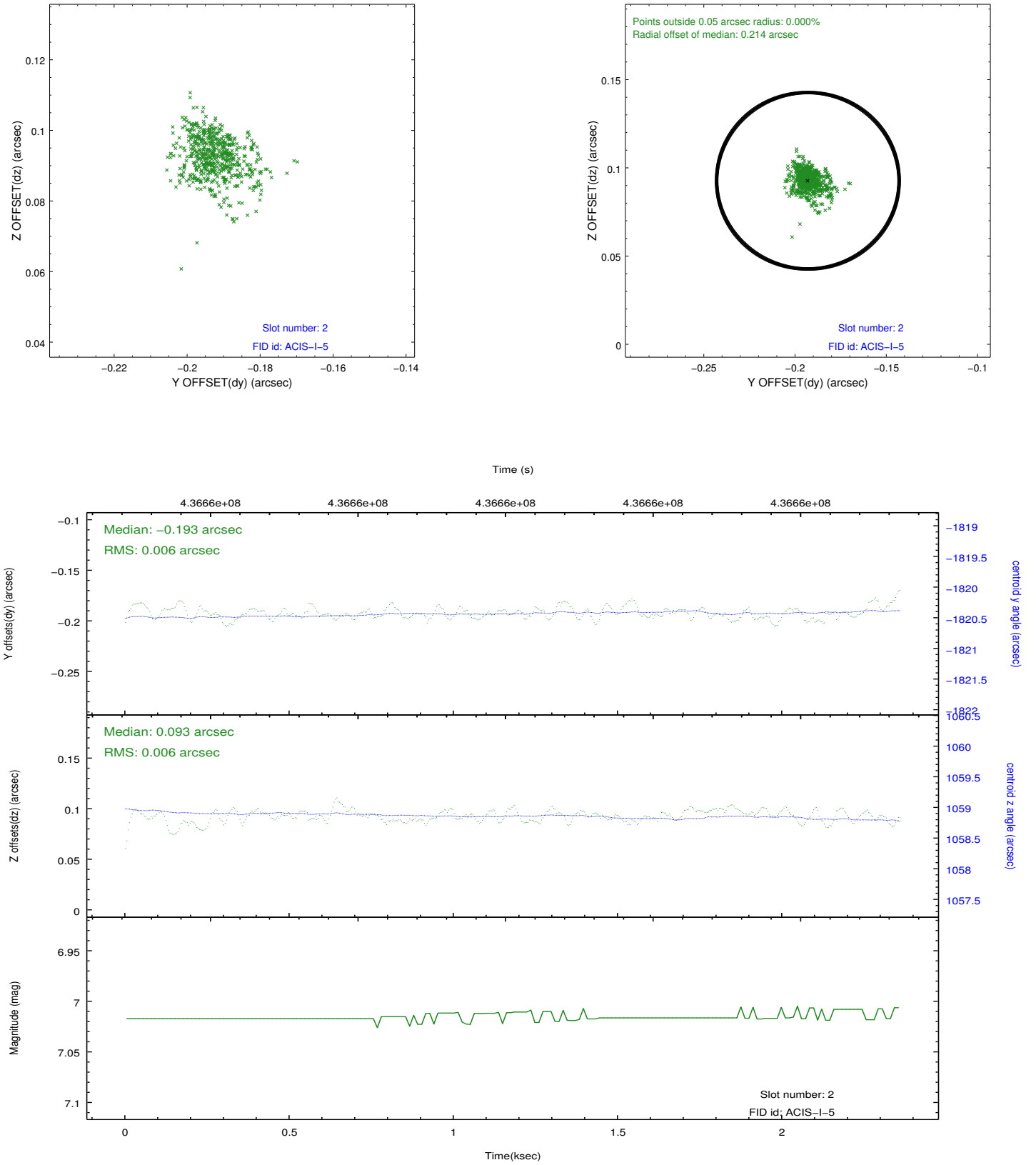
### 2.5.1 Slot 0



## 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)	2012.02.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.9732342475653

### A.2 Comments

The guide star in slot 6 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this guide star from the solution.