

# V&V Reference Report

## L2 ASCDS Version : 8.5.1.1

Observation 5694 - L2 Version 3  
Chandra X-Ray Center

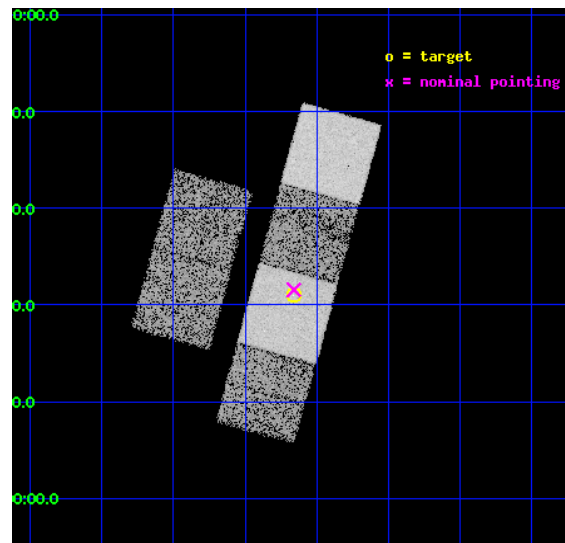
L2 Processing Date : Dec 27 2012

## Contents

<b>1</b>	<b>Front</b>	<b>2</b>
<b>2</b>	<b>OBI</b>	<b>3</b>
2.1	OBI . . . . .	3
2.1.1	Images . . . . .	3
2.1.2	Bias . . . . .	3
2.1.3	Parameters . . . . .	4
2.1.4	Events . . . . .	4
2.2	Compared Parameters . . . . .	5
2.3	Aspect . . . . .	6
2.4	Star Slots . . . . .	9
2.4.1	Slot 3 . . . . .	9
2.4.2	Slot 4 . . . . .	10
2.4.3	Slot 5 . . . . .	11
2.4.4	Slot 6 . . . . .	12
2.4.5	Slot 7 . . . . .	13
2.5	FID Slots . . . . .	14
2.5.1	Slot 0 . . . . .	14
2.5.2	Slot 1 . . . . .	15
2.5.3	Slot 2 . . . . .	16
<b>A</b>	<b>Summary</b>	<b>17</b>
A.1	Status . . . . .	17
A.2	Comments . . . . .	17

# 1 Front

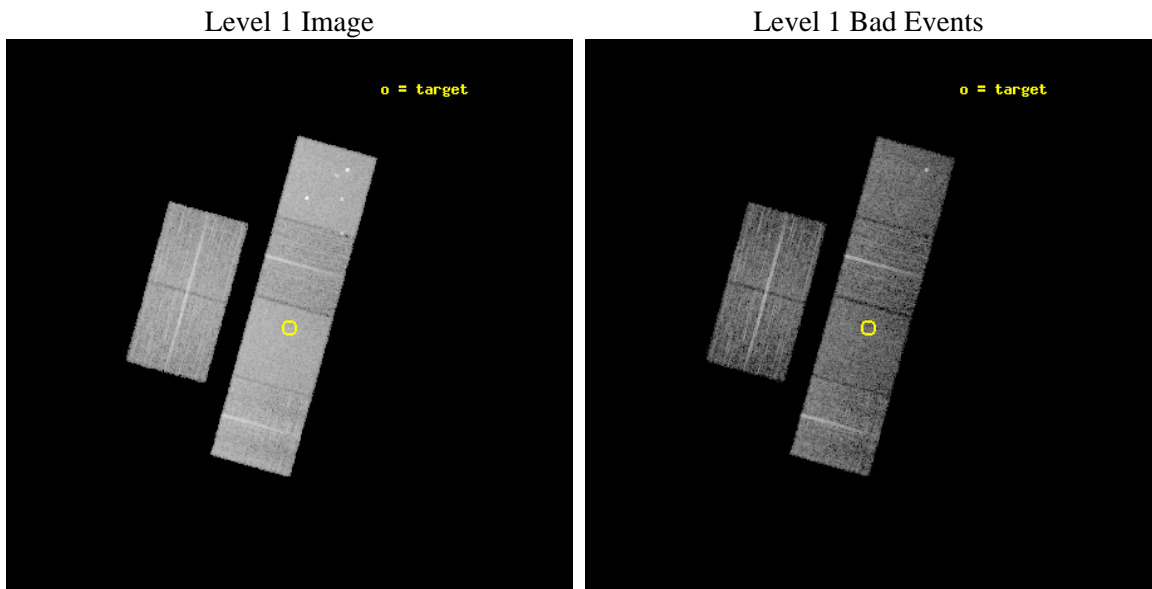
seq_num	701116	Sequence number
obs_id	5694	Observation id
title	Studying the X-ray properties of SDSS candidate Type II quasars with exploratory Chandra observations	Proposal title
observer	Dr Cristian Vignali	Principal investigator
object	SDSS J005009.81-003900.6	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	12.540833	Observer's specified target RA [deg]
dec_targ	-0.650167	Observer's specified target Dec [deg]
ra_nom	12.539860849731	Nominal RA [deg]
dec_nom	-0.64059200791908	Nominal Dec [deg]
roll_nom	105.4465845347	Nominal Roll [deg]
revision	3	Processing version of data
ontime	7954.3843974769	Sum of GTIs [s]
livetime	7853.6611926808	Livetime [s]
ontime2	7954.4254374802	Sum of GTIs [s]
ontime3	7954.261277467	Sum of GTIs [s]
ontime5	7954.3433574736	Sum of GTIs [s]
ontime6	7954.3023174703	Sum of GTIs [s]
ontime7	7954.3843974769	Sum of GTIs [s]
ontime8	7954.2202374935	Sum of GTIs [s]
l2events	95479	Number of level 2 events



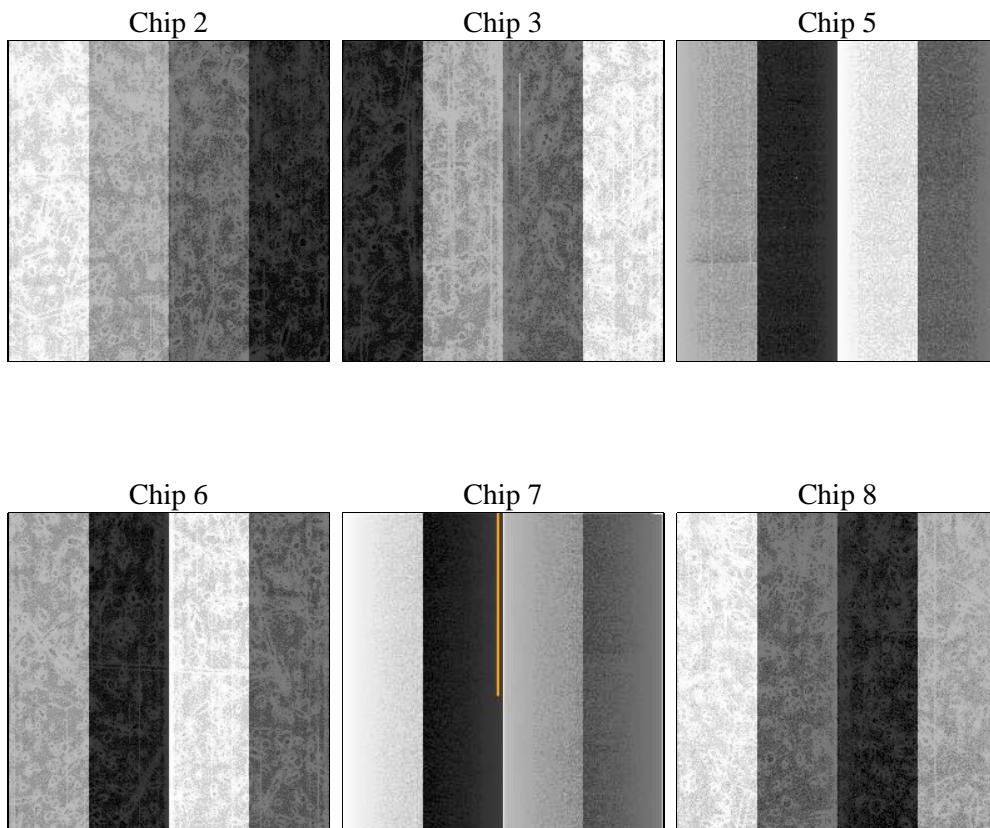
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	8000.000000	[s] Scheduled observation exposure time
ascdsver	8.5.1.1	Processing system revision	ontime	7954.3843974769	Sum of GTIs [s]
caldsver	4.5.5	&#160	ontime2	7954.4254374802	Sum of GTIs [s]
date	2012-12-27T23:51:03	Date and time of file creation	ontime3	7954.261277467	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	7954.3433574736	Sum of GTIs [s]
			ontime6	7954.3023174703	Sum of GTIs [s]
			ontime7	7954.3843974769	Sum of GTIs [s]
			ontime8	7954.2202374935	Sum of GTIs [s]
			l1events	423828	Number of level 1 events

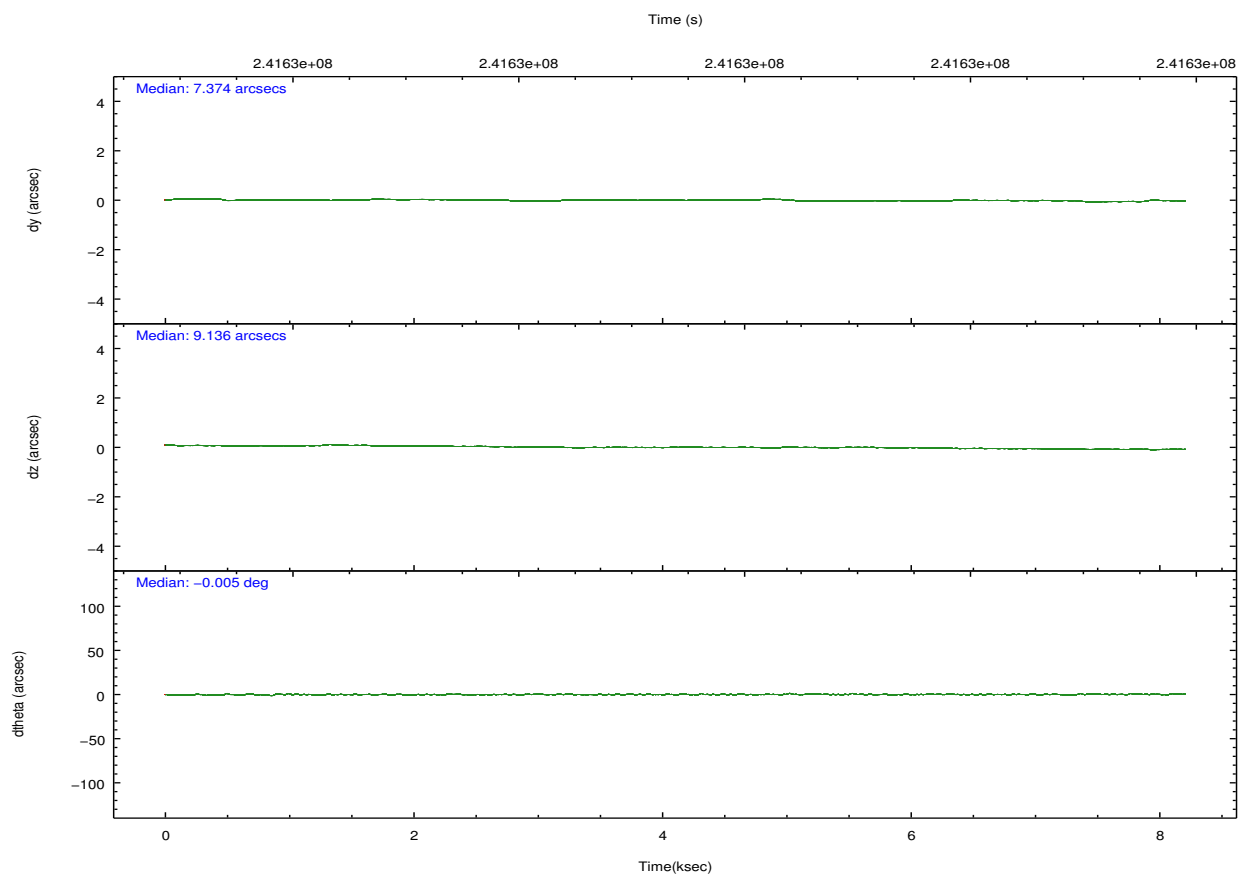
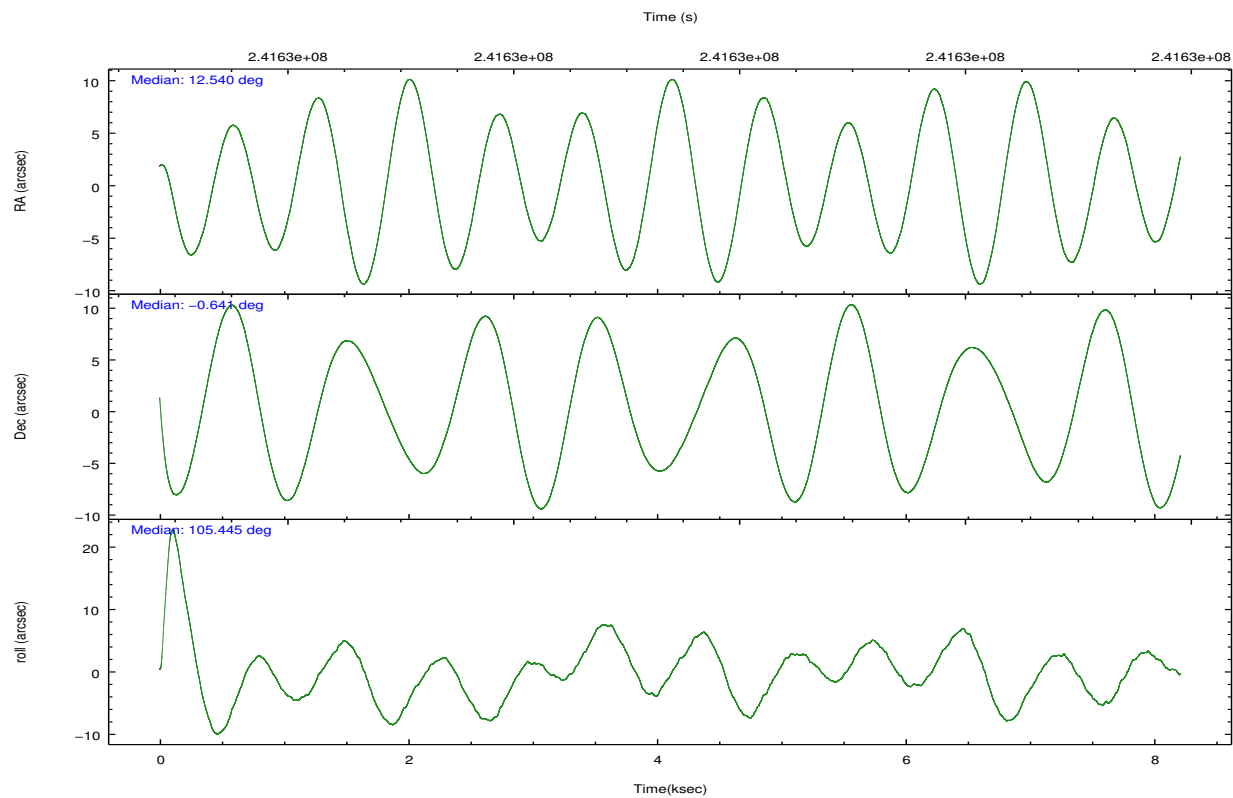
### 2.1.4 Events

	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	60779	57621	91074	57550	80487	76317	grade 0 events	3104	3084	5232	2855	2830	5165
rejected events	53543	50540	48945	50291	47527	59744		5%	5%	5%	4%	3%	6%
rejected %	88%	87%	53%	87%	59%	78%	grade 1 events	33	42	129	25	83	67
								0%	0%	0%	0%	0%	0%
							grade 2 events	1533	1322	12600	1569	6656	3636
								2%	2%	13%	2%	8%	4%
							grade 3 events	660	720	1482	703	2905	1862
								1%	1%	1%	1%	3%	2%
							grade 4 events	708	690	1476	699	2740	1698
								1%	1%	1%	1%	3%	2%
							grade 5 events	2375	2747	6665	2806	7667	3621
								3%	4%	7%	4%	9%	4%
							grade 6 events	1234	1268	21374	1441	17855	4221
								2%	2%	23%	2%	22%	5%
							grade 7 events	51132	47748	42116	47452	39751	56047
								84%	82%	46%	82%	49%	73%

## 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	12.559593	12.53986084973122	Subarray requested	NONE	NONE
[deg] Pointing Dec	-0.659376	-0.640592007919083	Alternating exposures requested	N	N
[deg] Pointing Roll	105.290216	105.4465845347008	[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	-190.145094680475			
[mm] SIM translation stage offset	0	0.01257209746719923			
[s] Observation start time (MET)	241625486.184000	241624511.01629			
Observation start date	2005-08-28T14:10:22	2005-08-28T13:55:11			
[s] Observation end time (MET)	241633486.184000	241634584.71675			
Observation end date	2005-08-28T16:23:42	2005-08-28T16:43:04			
Read mode	TIMED	TIMED			

## 2.3 Aspect

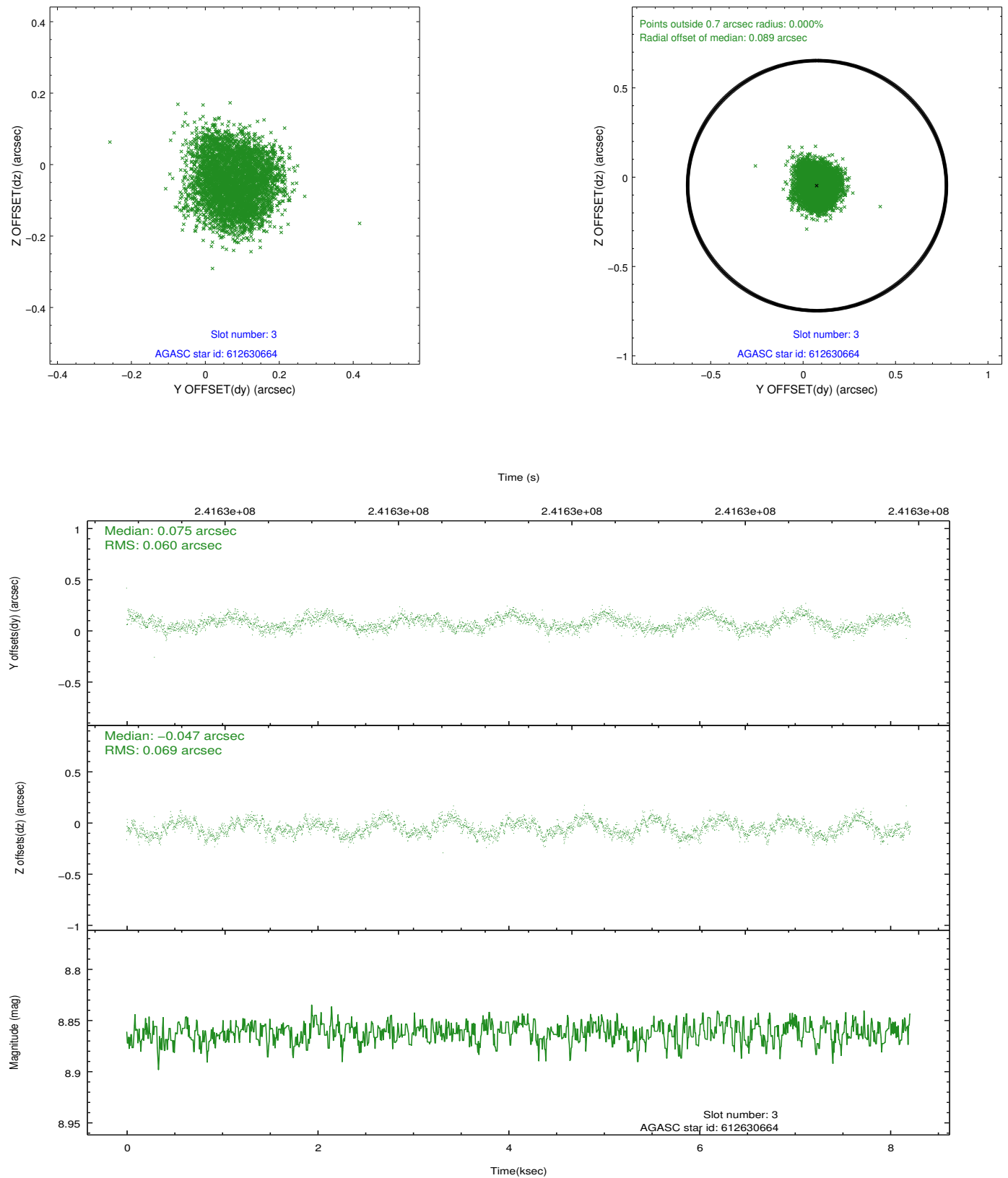


### Slot Statistics

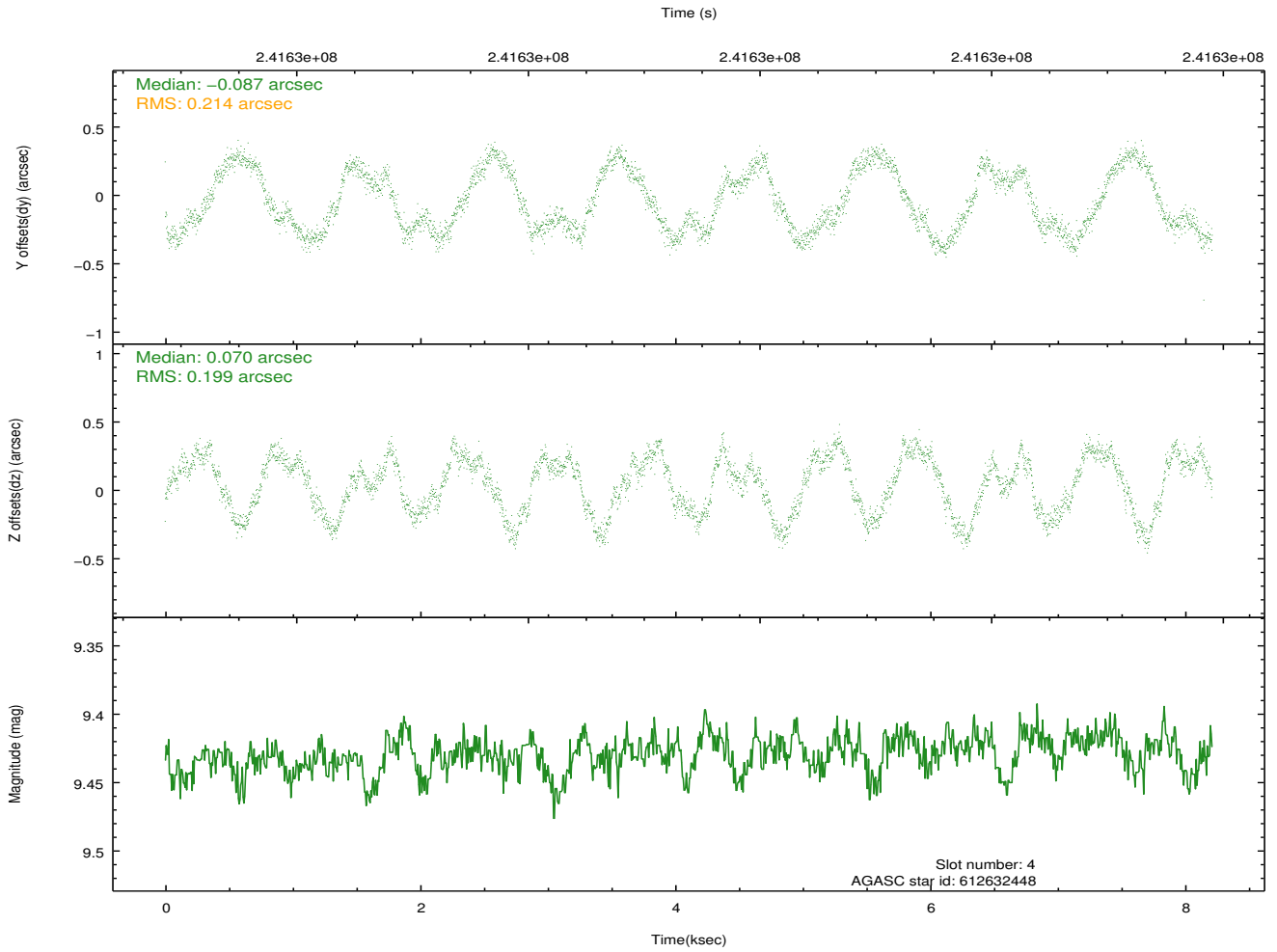
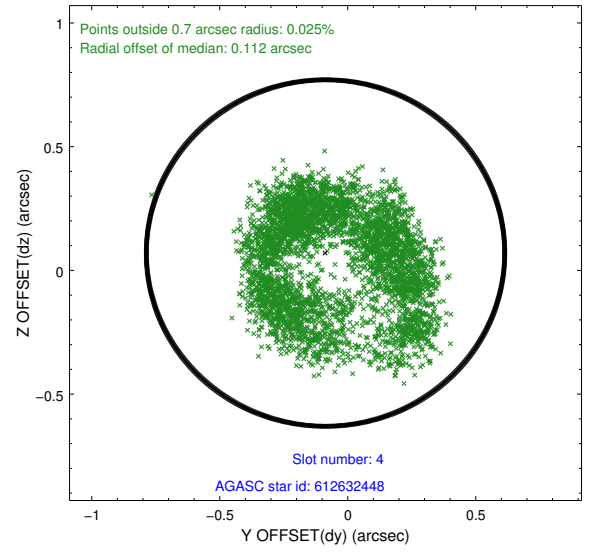
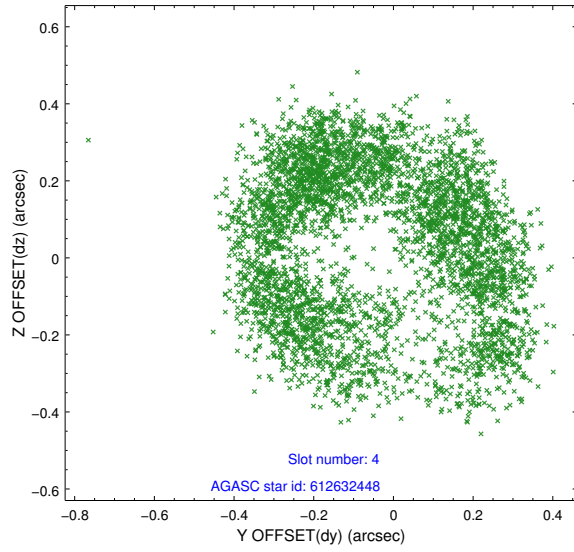
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	2004	-0.028	-0.035	0.007	0.011	0.000000	0.000000	-760.14	-1730.30
1	FID	ACIS-S-4	7.21	2004	0.079	0.023	0.006	0.011	0.000000	0.000000	2152.91	177.56
2	FID	ACIS-S-5	7.23	2004	-0.082	0.021	0.007	0.012	0.000000	0.000000	-1812.18	171.97
3	GUIDE	612630664	8.86	4004	0.075	-0.047	0.100	0.146	12.819163	-0.535703	183.67	-1018.86
4	GUIDE	612632448	9.43	4005	-0.087	0.070	0.312	0.457	12.770487	-1.004330	-1397.48	-405.08
5	GUIDE	612632872	8.66	4005	-0.034	0.017	0.089	0.139	12.666370	-0.080556	1908.18	-919.94
6	GUIDE	612633056	9.39	4003	-0.034	0.060	0.138	0.206	13.071720	-0.364507	538.65	-2058.62
7	GUIDE	612633288	8.51	4003	0.054	-0.075	0.100	0.149	12.908194	-0.488403	263.35	-1373.19

## 2.4 Star Slots

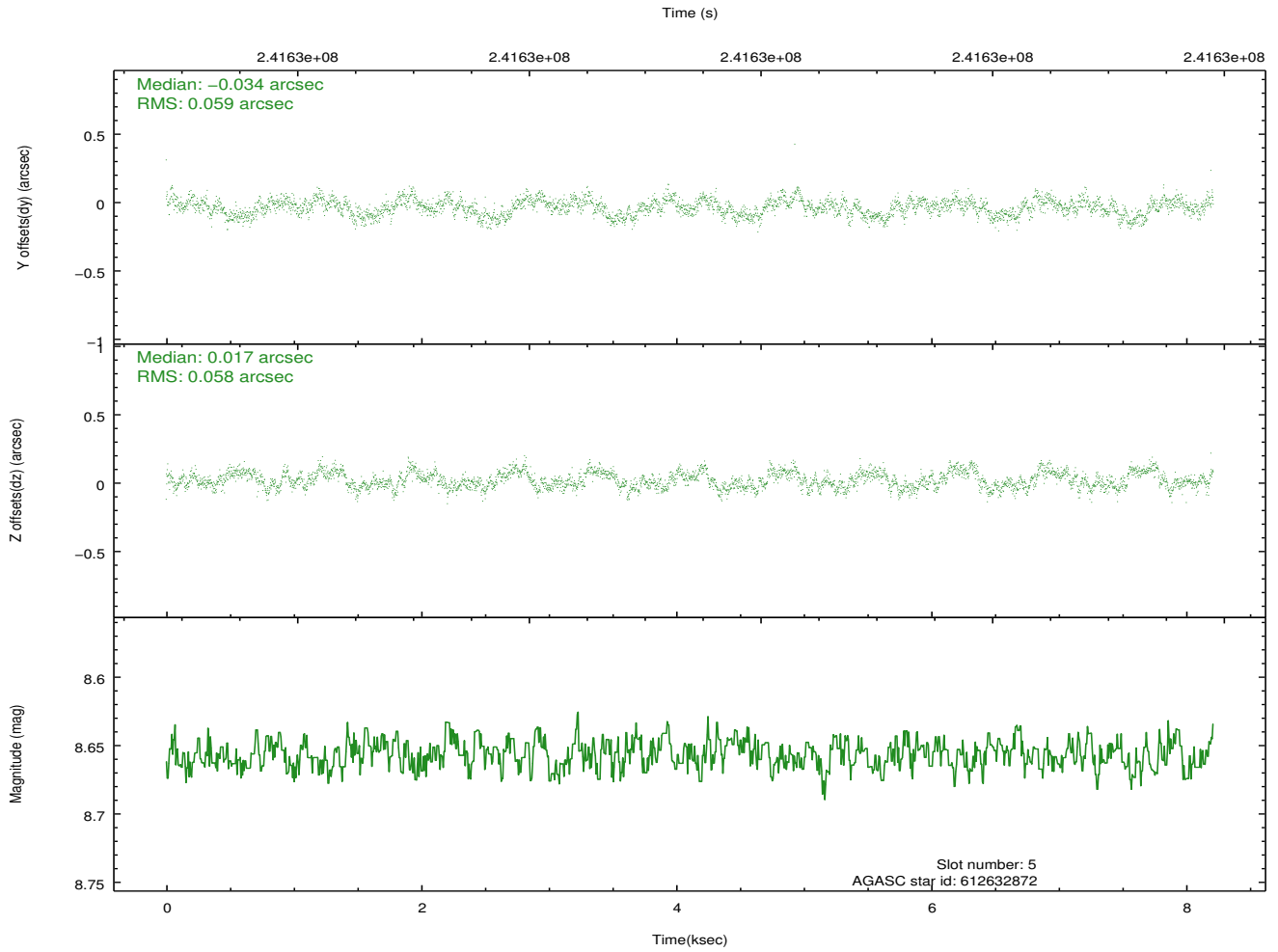
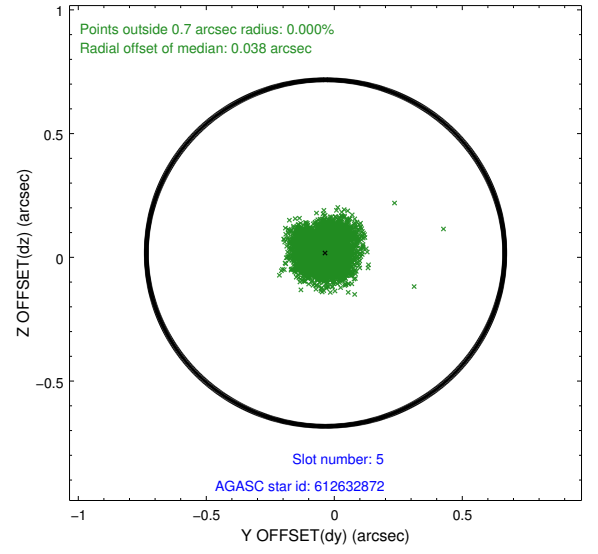
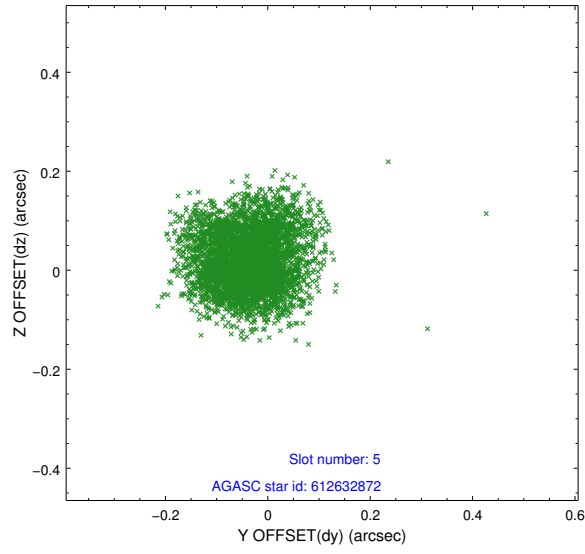
### 2.4.1 Slot 3



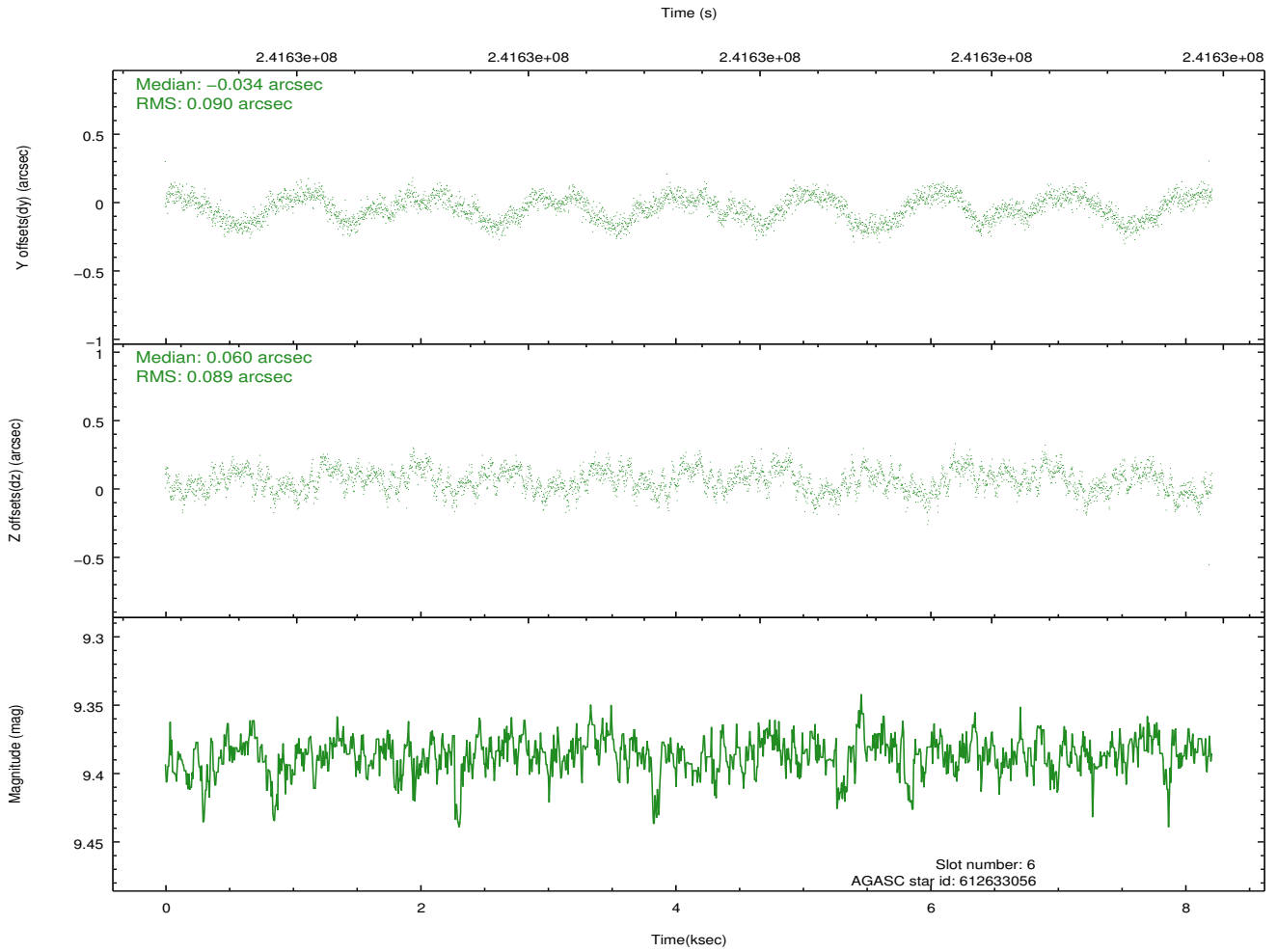
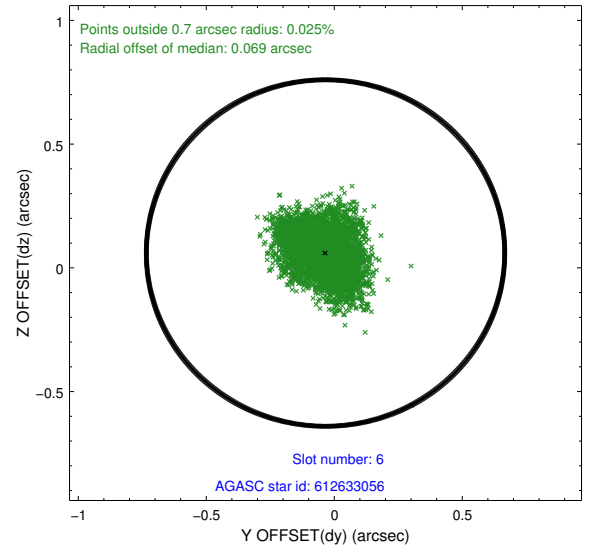
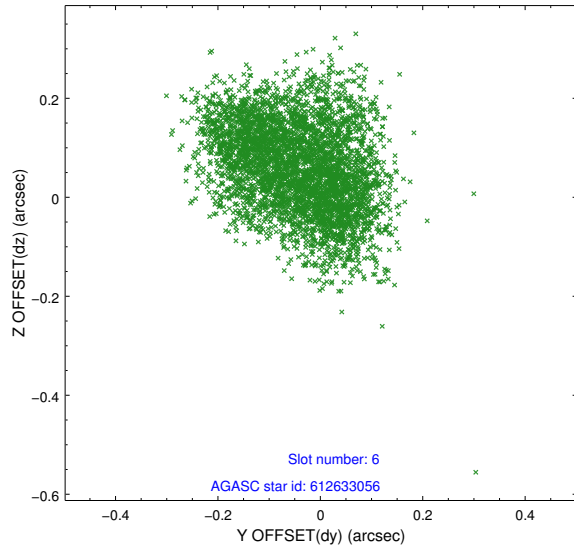
## 2.4.2 Slot 4



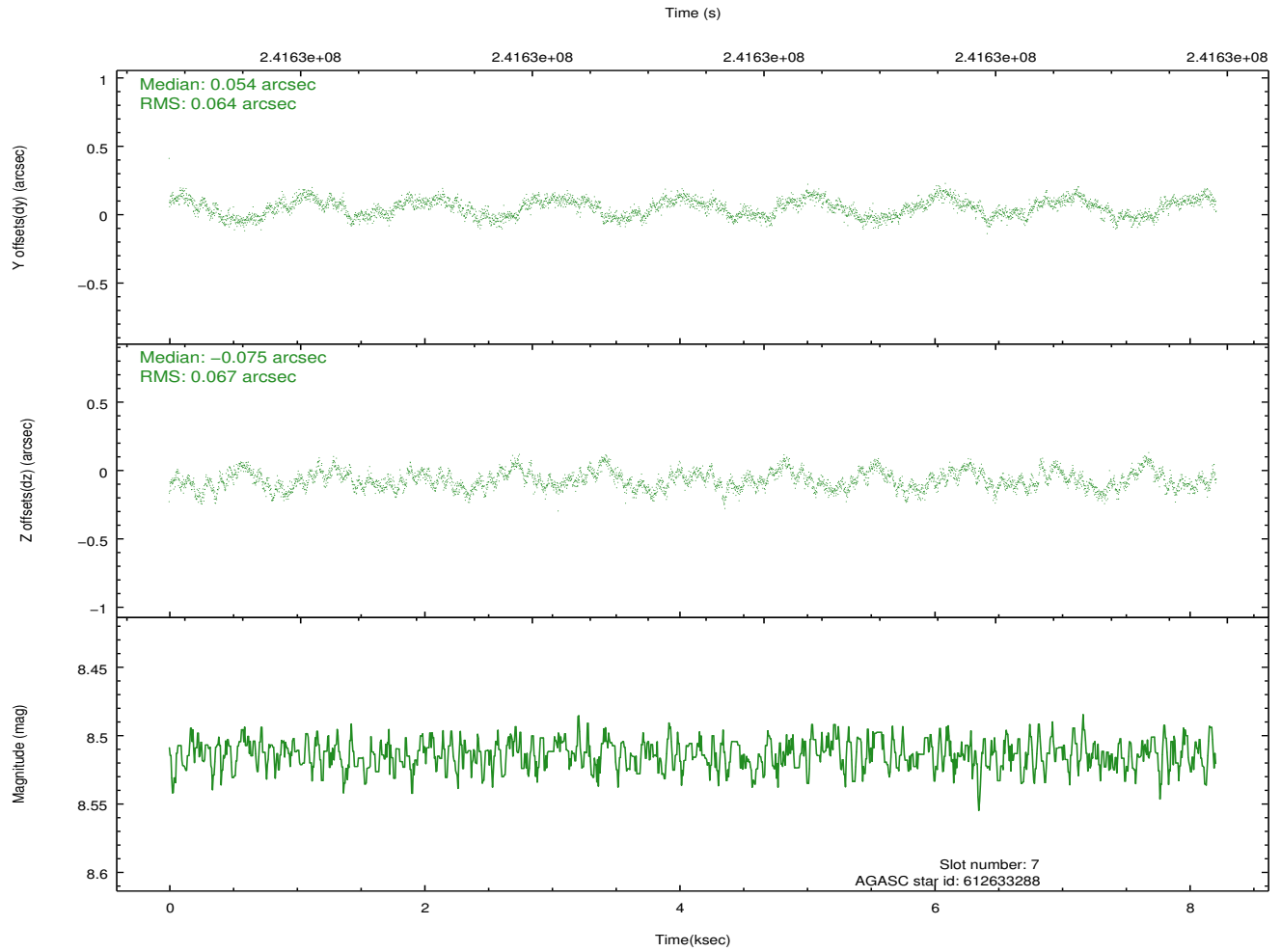
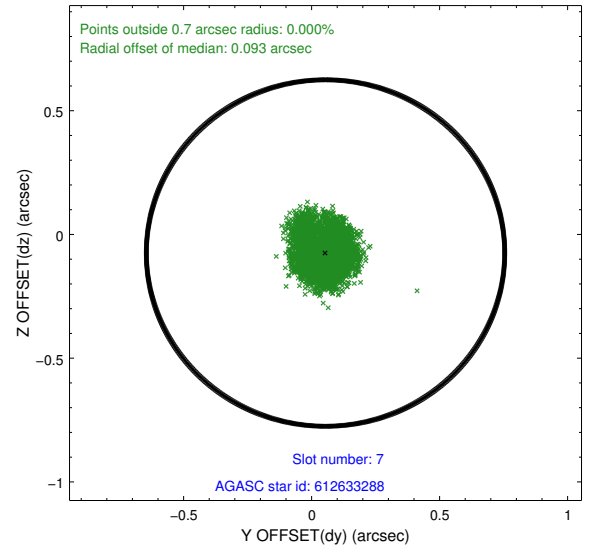
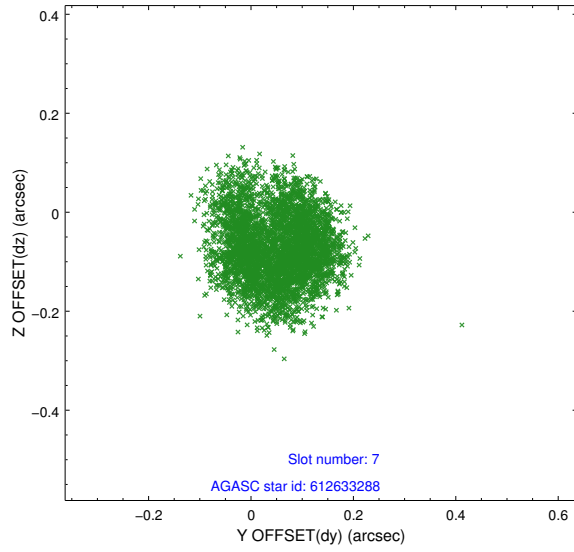
### 2.4.3 Slot 5



## 2.4.4 Slot 6

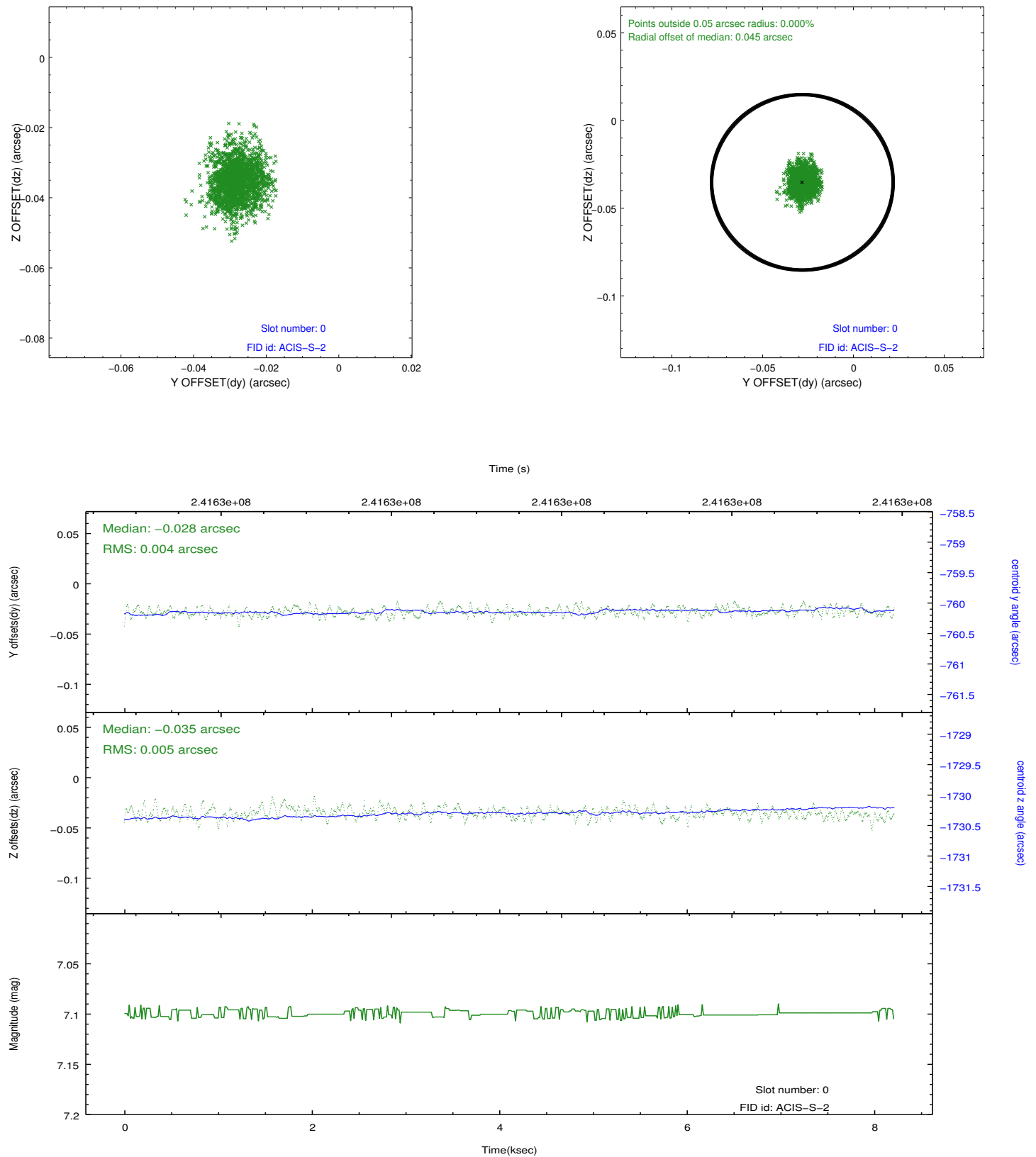


## 2.4.5 Slot 7

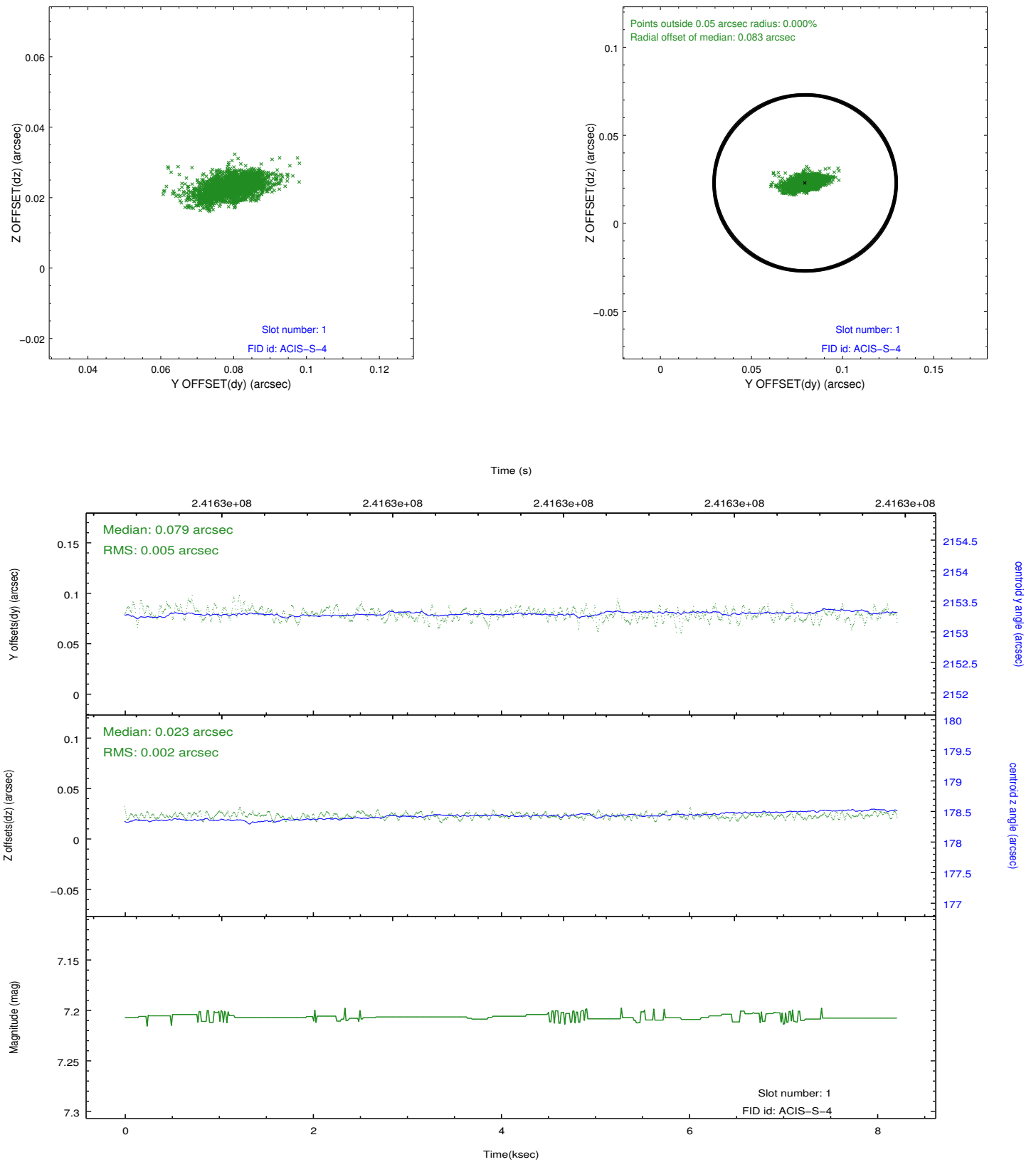


## 2.5 FID Slots

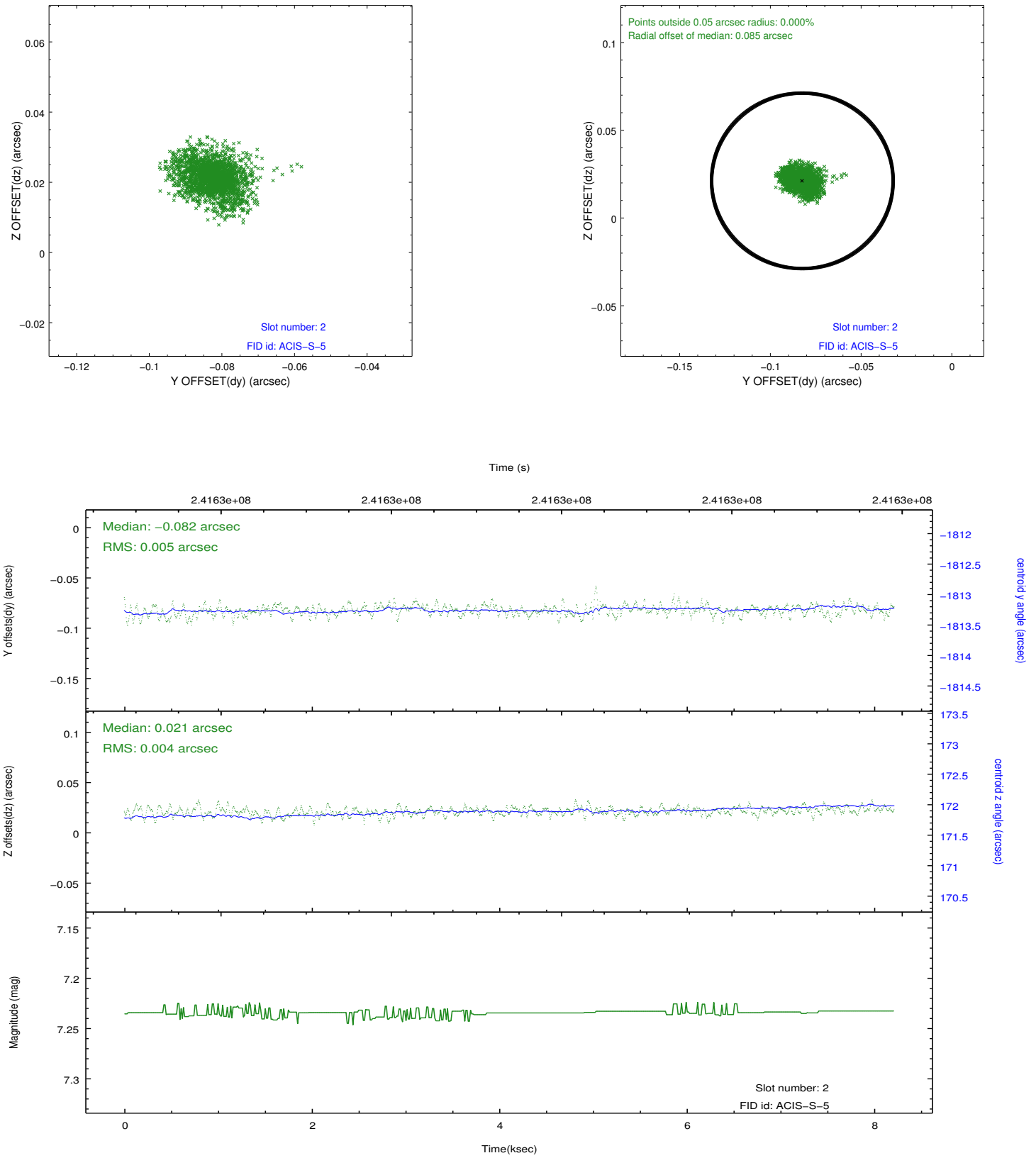
### 2.5.1 Slot 0



## 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)	2013.01.24
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.955199

### **A.2 Comments**