

# V&V Reference Report

## L2 ASCDS Version : 8.4.3.1

Observation 6803 - L2 Version 2  
Chandra X-Ray Center

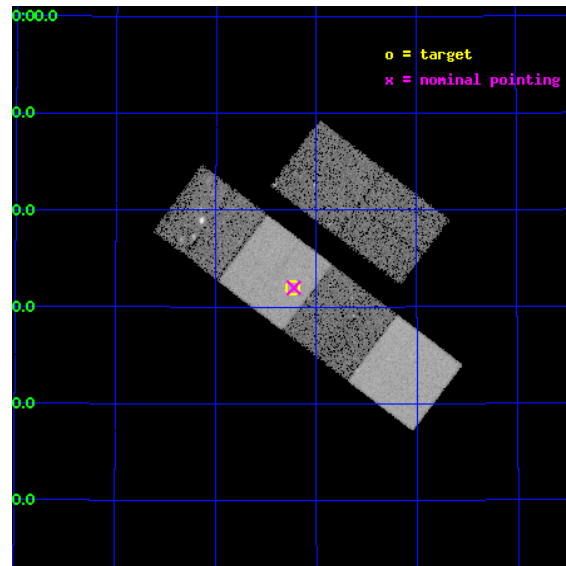
L2 Processing Date : Mar 27 2012

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# 1 Front

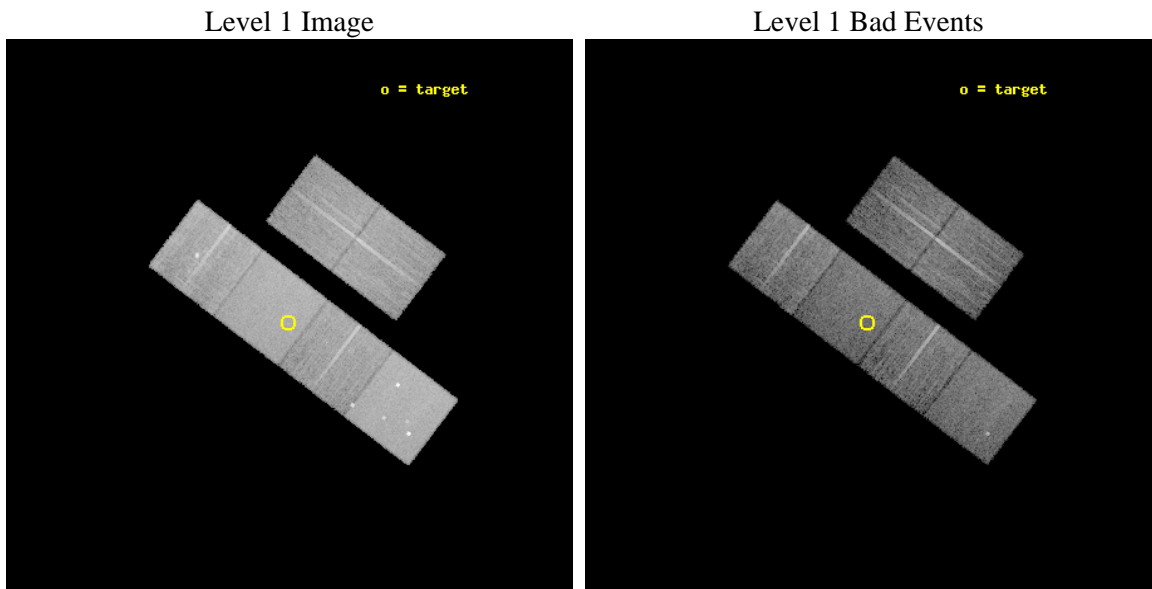
seq_num	701221	Sequence number
obs_id	6803	Observation id
title	X-ray Observations of Optically-Selected Type II Quasars	Proposal
observer	Prof. Michael Strauss	Principal investigator
object	SDSSJ0920+4531	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	140.05875	Observer's specified target RA [deg]
dec_targ	45.532583	Observer's specified target Dec [deg]
ra_nom	140.05582226701	Nominal RA [deg]
dec_nom	45.533164150338	Nominal Dec [deg]
roll_nom	217.19974569249	Nominal Roll [deg]
revision	2	Processing version of data
ontime	10175.999962091	Sum of GTIs [s]
livetime	10047.14532332	Livetime [s]
ontime2	10175.999962091	Sum of GTIs [s]
ontime3	10175.999962091	Sum of GTIs [s]
ontime5	10175.999962091	Sum of GTIs [s]
ontime6	10175.999962091	Sum of GTIs [s]
ontime7	10175.999962091	Sum of GTIs [s]
ontime8	10175.999962091	Sum of GTIs [s]
l2events	148072	Number of level 2 events



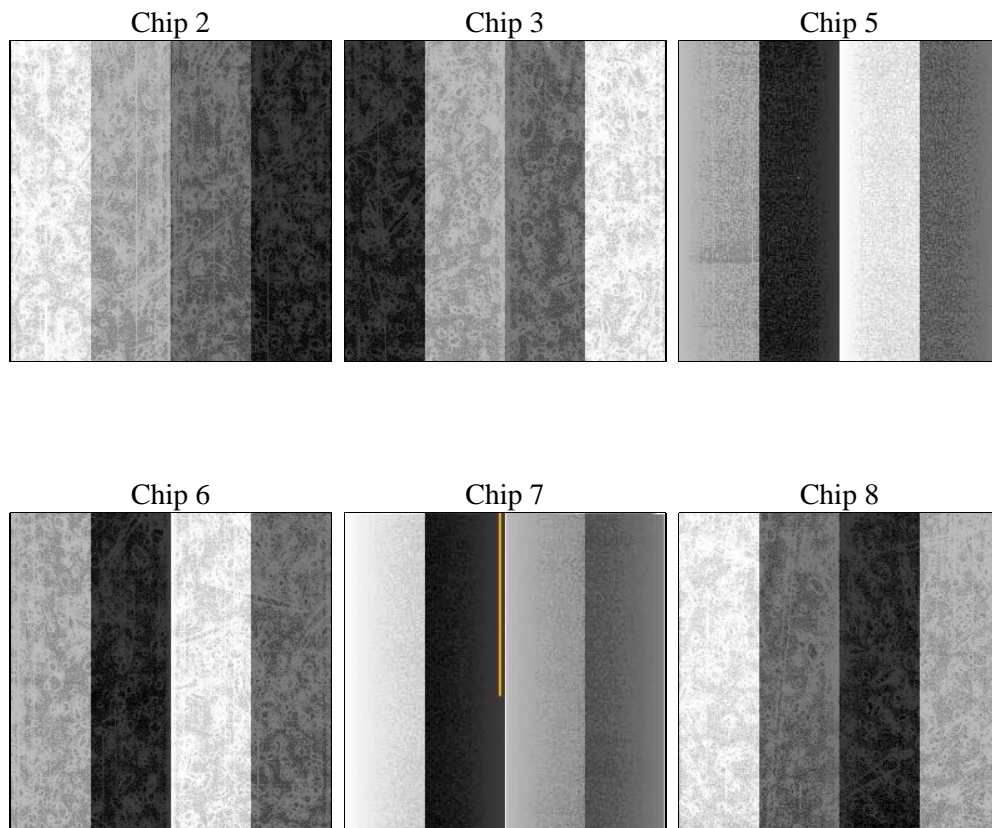
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	10175.999962091	Sum of GTIs [s]
caldsver	4.4.8	&#160	ontime2	10175.999962091	Sum of GTIs [s]
date	2012-03-27T03:32:15	Date and time of file creation	ontime3	10175.999962091	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	10175.999962091	Sum of GTIs [s]
			ontime6	10175.999962091	Sum of GTIs [s]
			ontime7	10175.999962091	Sum of GTIs [s]
			ontime8	10175.999962091	Sum of GTIs [s]
			l1events	650452	Number of level 1 events

### 2.1.4 Events

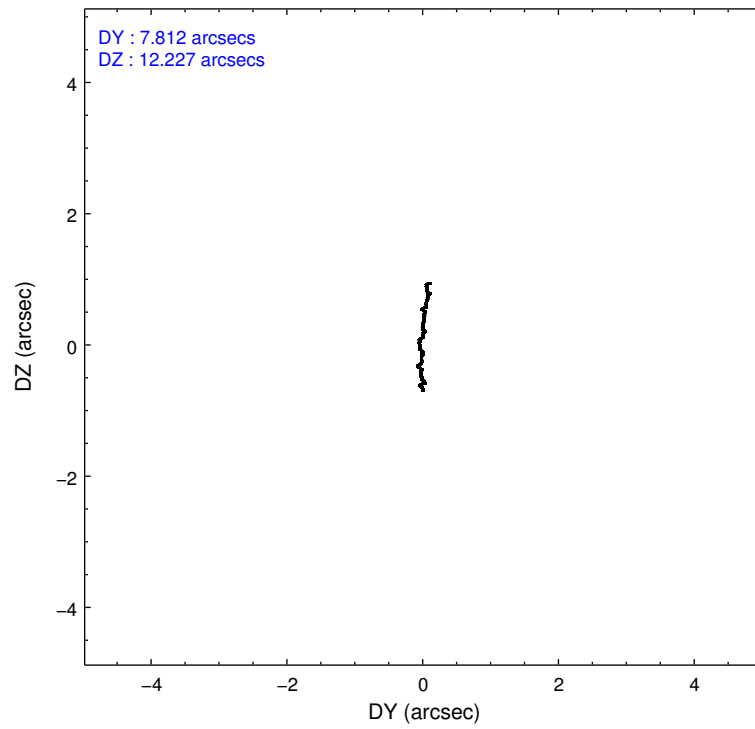
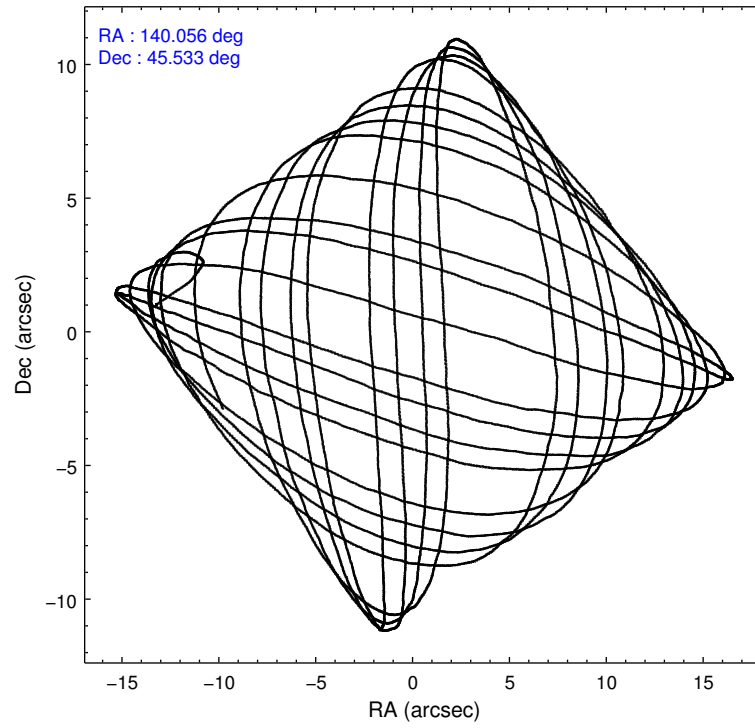
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	92111	86295	141571	90039	123350	117086	grade 0 events	4713	4772	9692	4417	4442	10070
rejected events	81538	75749	75397	79195	72809	89742		5%	5%	6%	4%	3%	8%
rejected %	88%	87%	53%	87%	59%	76%	grade 1 events	62	43	234	52	115	80
								0%	0%	0%	0%	0%	0%
							grade 2 events	2282	2079	19564	2323	10199	5712
								2%	2%	13%	2%	8%	4%
							grade 3 events	974	984	2395	1034	4611	2857
								1%	1%	1%	1%	3%	2%
							grade 4 events	984	1011	2260	1066	4437	2679
								1%	1%	1%	1%	3%	2%
							grade 5 events	3428	3961	9748	4166	11890	5524
								3%	4%	6%	4%	9%	4%
							grade 6 events	1792	1867	33373	2172	27654	6387
								1%	2%	23%	2%	22%	5%
							grade 7 events	77876	71578	64305	74809	60002	83777
								84%	82%	45%	83%	48%	71%

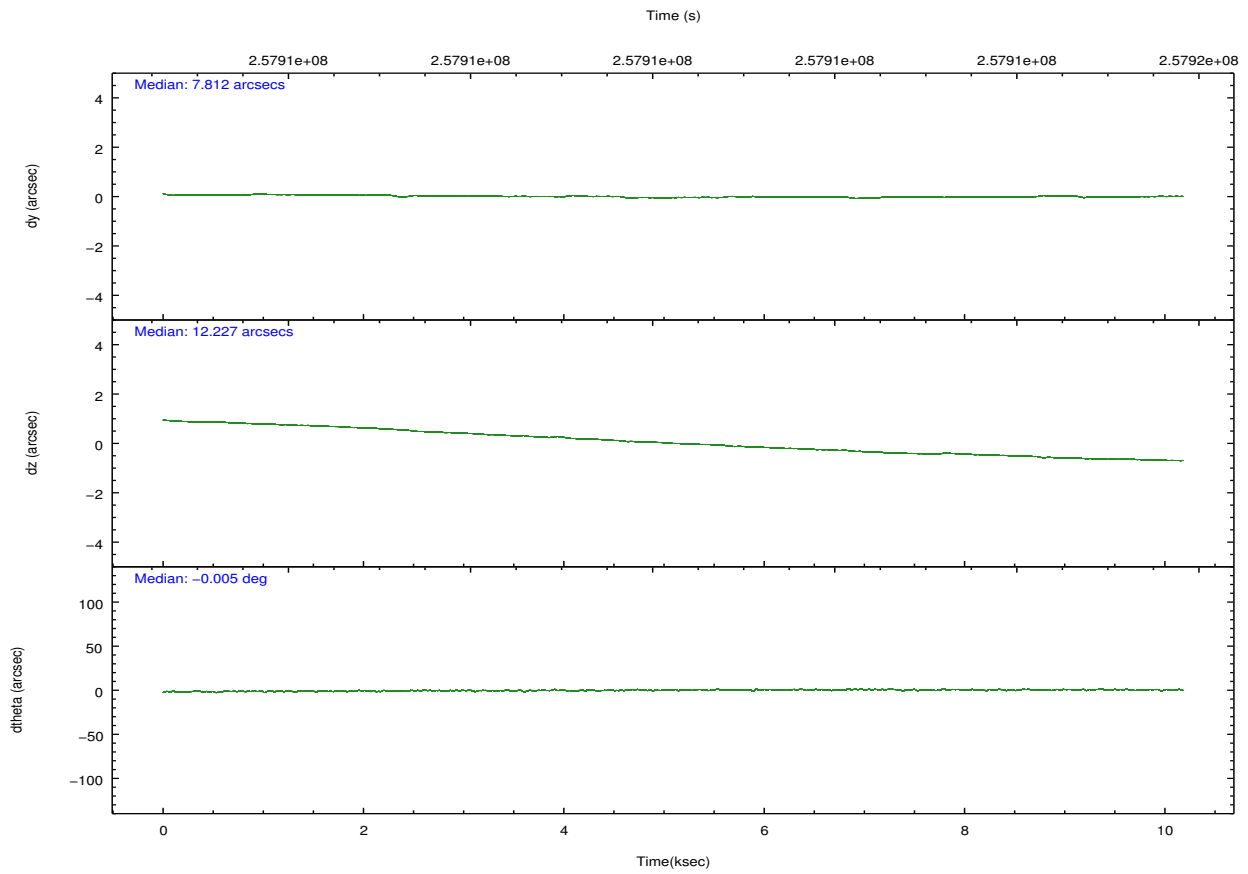
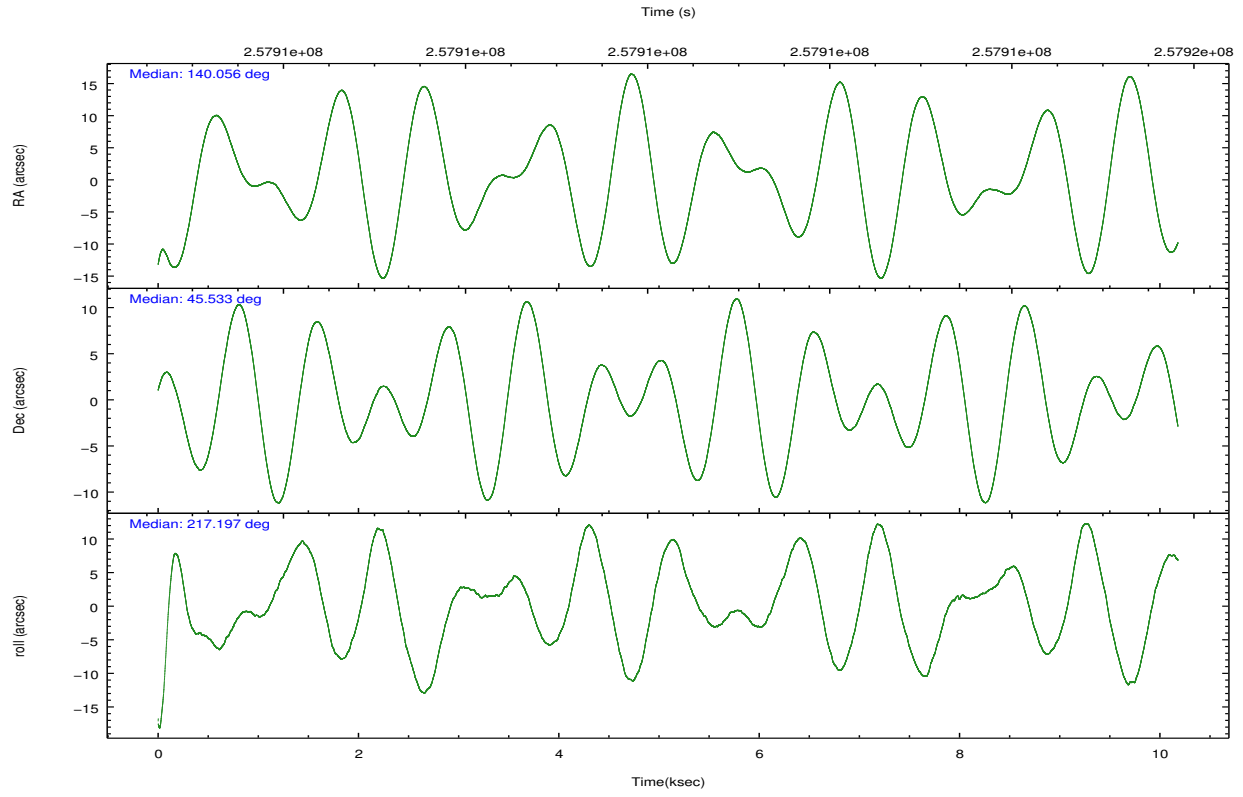


## 2.2 Compared Parameters

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	140.070476	140.0558222670138	Subarray requested	NONE	NONE
[deg] Pointing Dec	45.558411	45.53316415033795	Alternating exposures requested	N	N
[deg] Pointing Roll	217.032682	217.1997456924898	[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	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	257905317.184000	257904166.51854			
Observation start date	2006-03-05T00:20:52	2006-03-05T00:02:46			
[s] Observation end time (MET)	257915317.184000	257915561.44407			
Observation end date	2006-03-05T03:07:32	2006-03-05T03:12:41			
Read mode	TIMED	TIMED			

## 2.3 Aspect



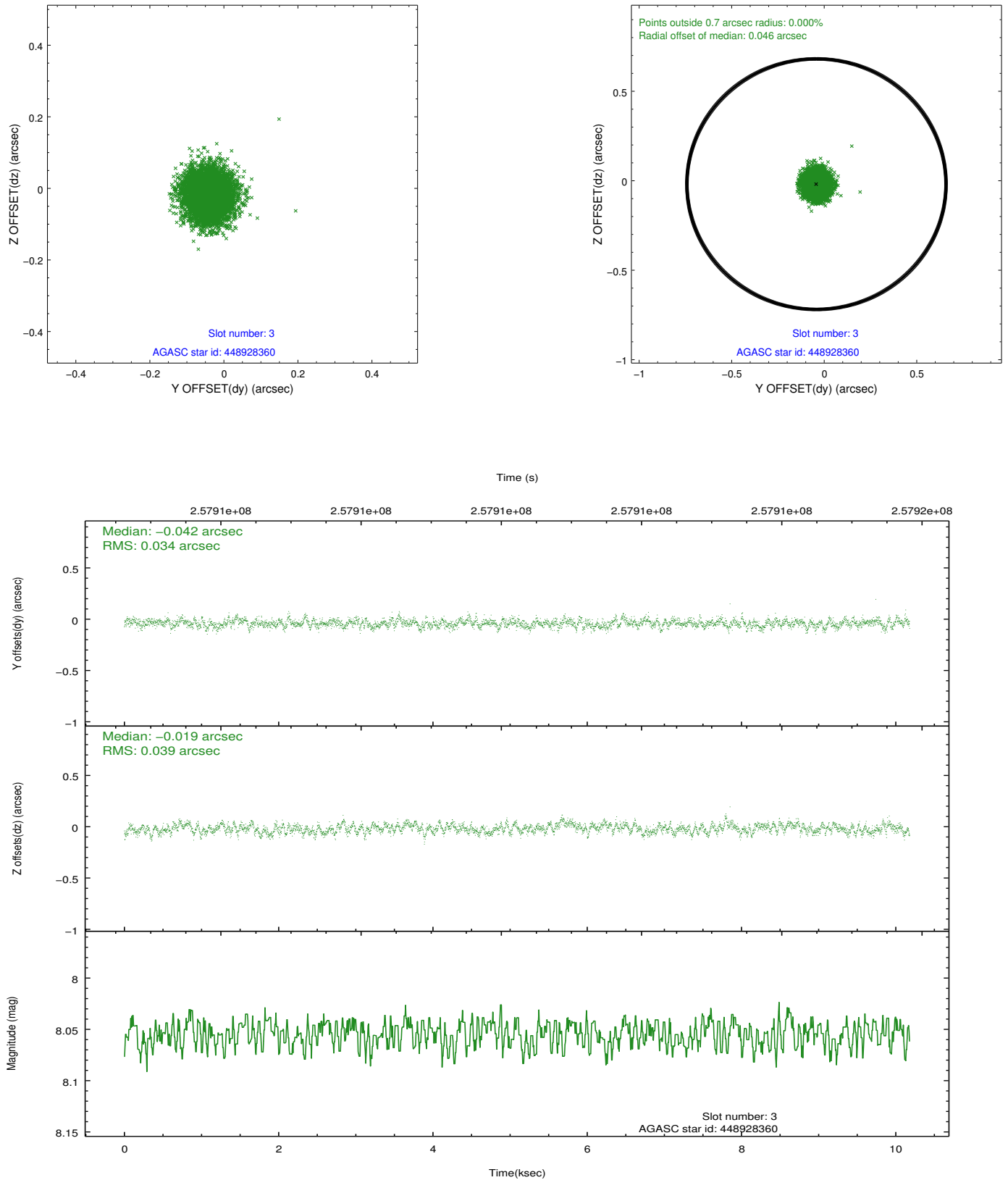


### Slot Statistics

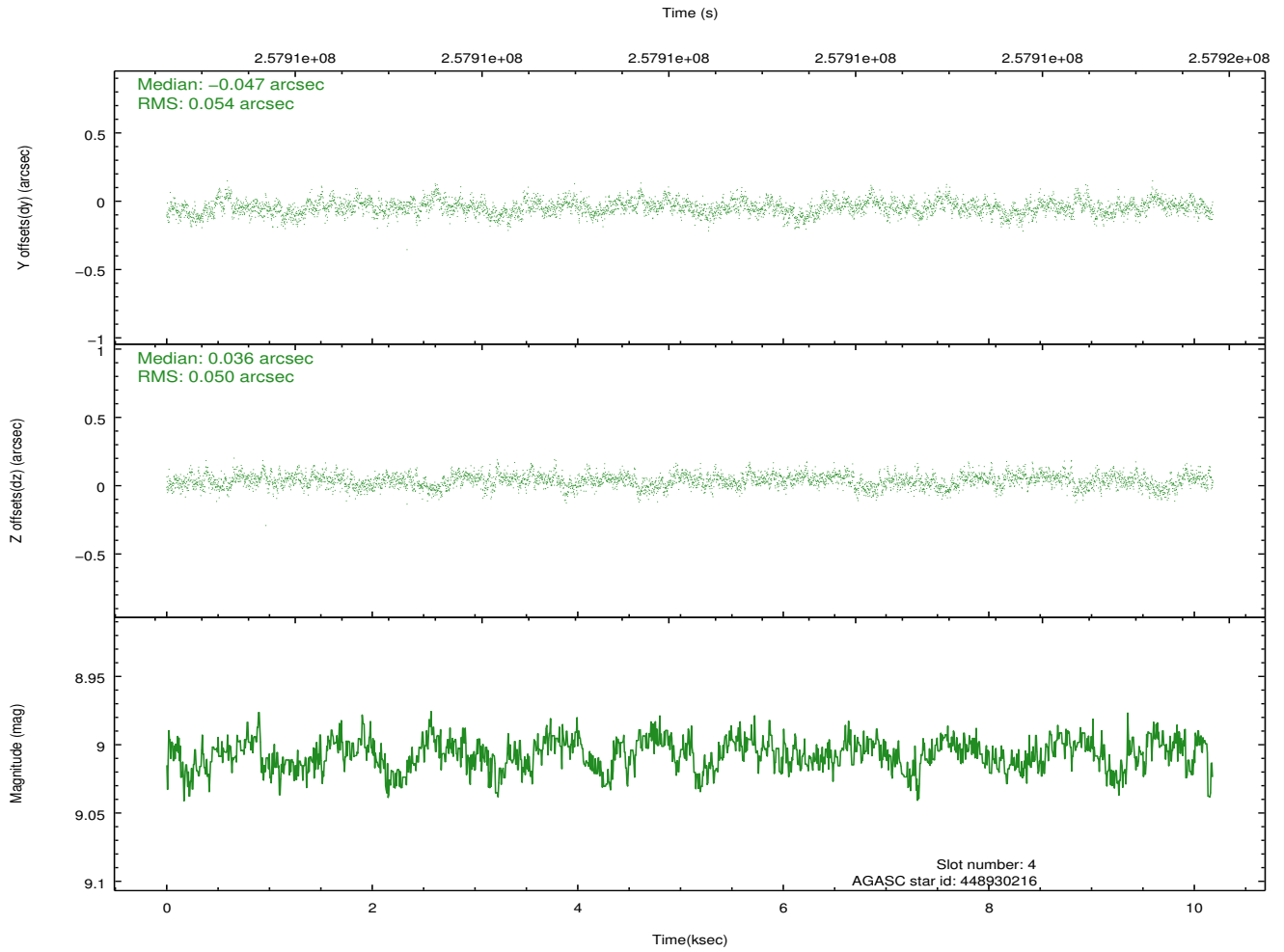
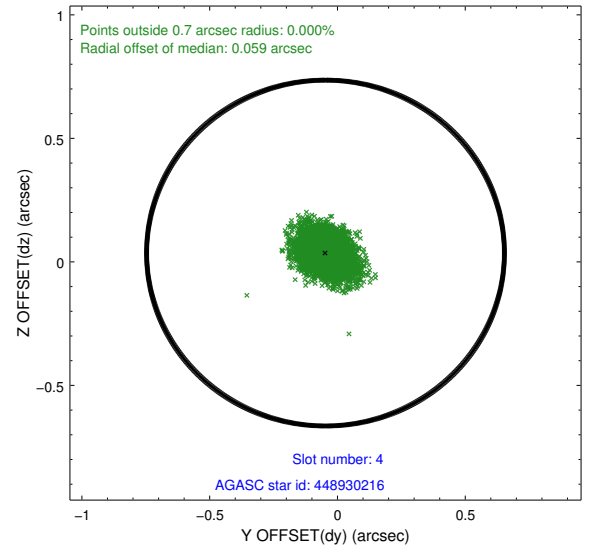
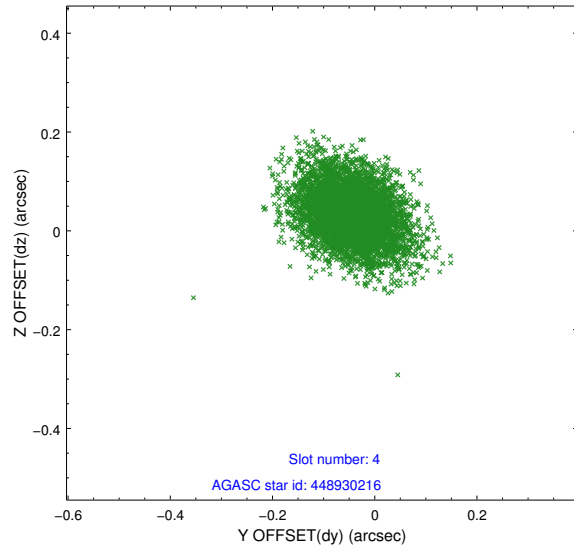
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.19	2483	0.050	-0.072	0.022	0.051	0.000000	0.000000	935.46	-1729.24
1	FID	ACIS-S-2	7.11	2484	-0.042	0.015	0.009	0.016	0.000000	0.000000	-760.24	-1734.23
2	FID	ACIS-S-6	7.35	2483	-0.030	0.059	0.022	0.042	0.000000	0.000000	400.85	811.68
3	GUIDE	448928360	8.05	4965	-0.042	-0.019	0.056	0.088	140.281457	45.866986	-1091.66	-568.36
4	GUIDE	448930216	9.01	4963	-0.047	0.036	0.077	0.130	141.088326	45.654108	-2261.92	1254.99
5	GUIDE	448934152	9.17	4963	0.017	-0.114	0.105	0.174	139.901788	45.321134	854.74	425.14
6	GUIDE	448929904	9.16	4965	-0.063	-0.082	0.118	0.185	139.571587	46.153136	-298.30	-2461.18
7	GUIDE	391916696	9.34	4961	0.124	0.191	0.093	0.151	139.702218	44.810684	2370.89	1580.95

## 2.4 Star Slots

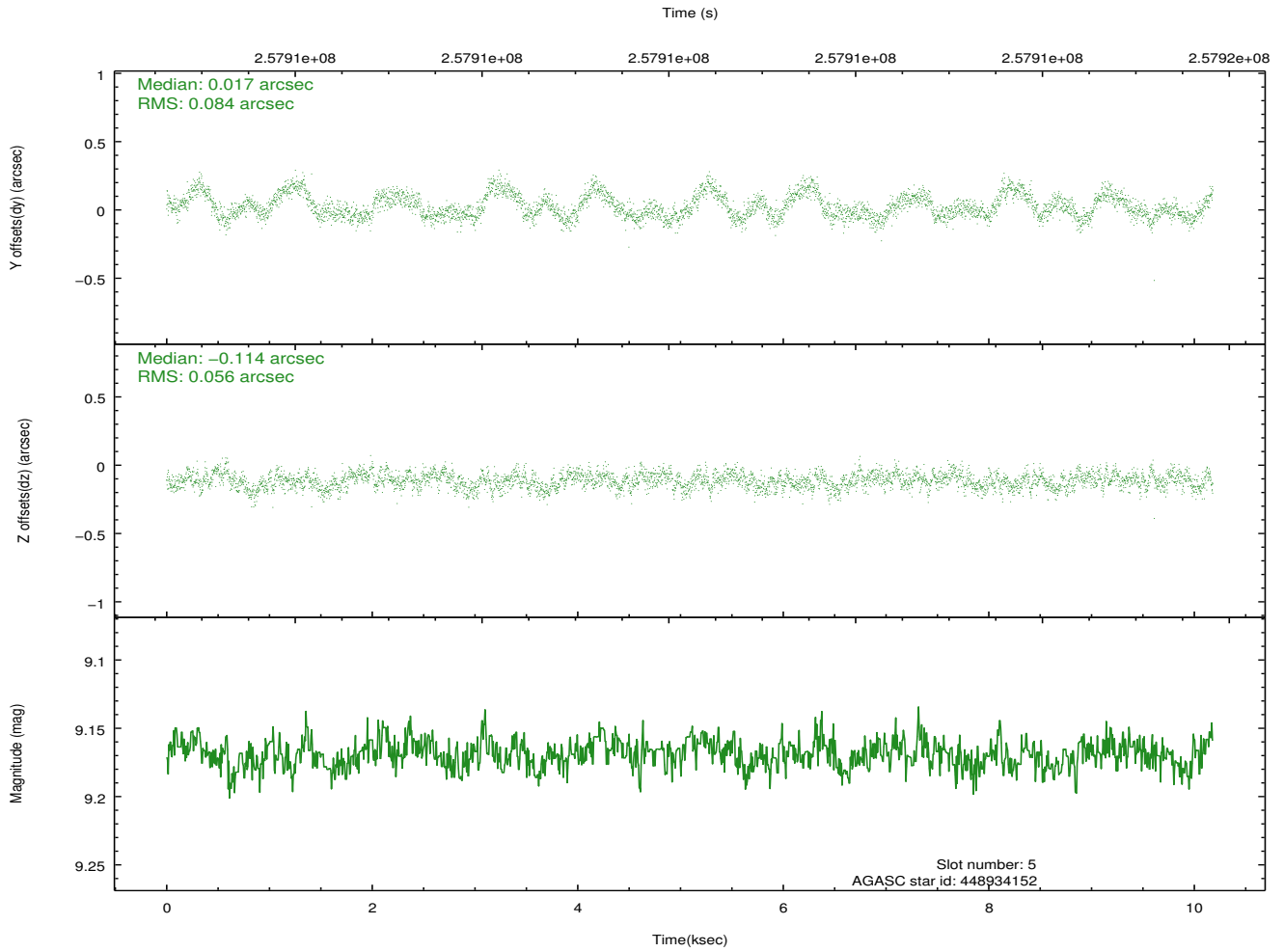
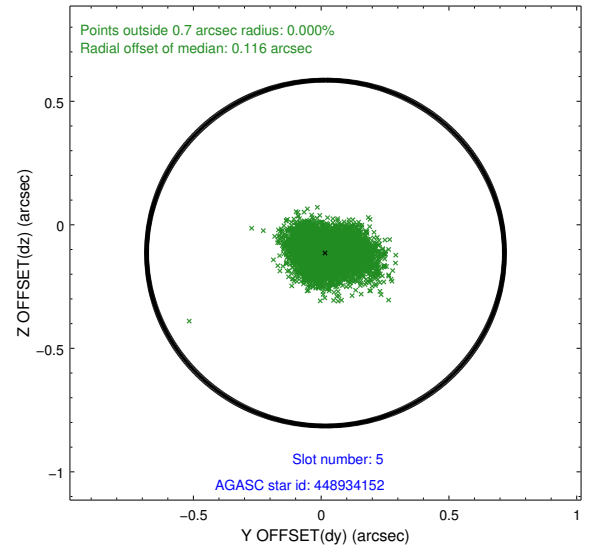
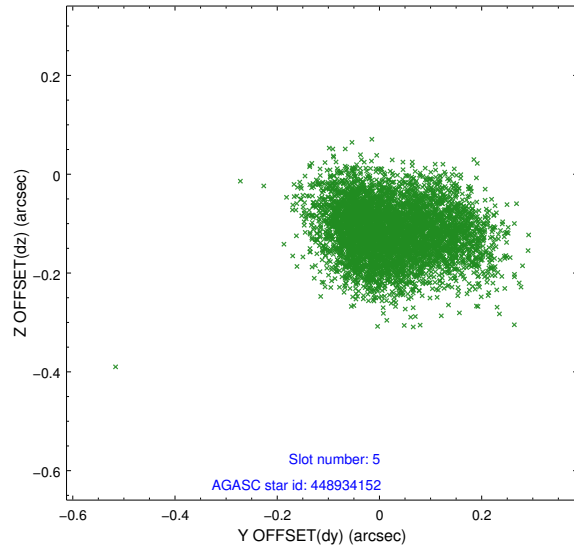
### 2.4.1 Slot 3



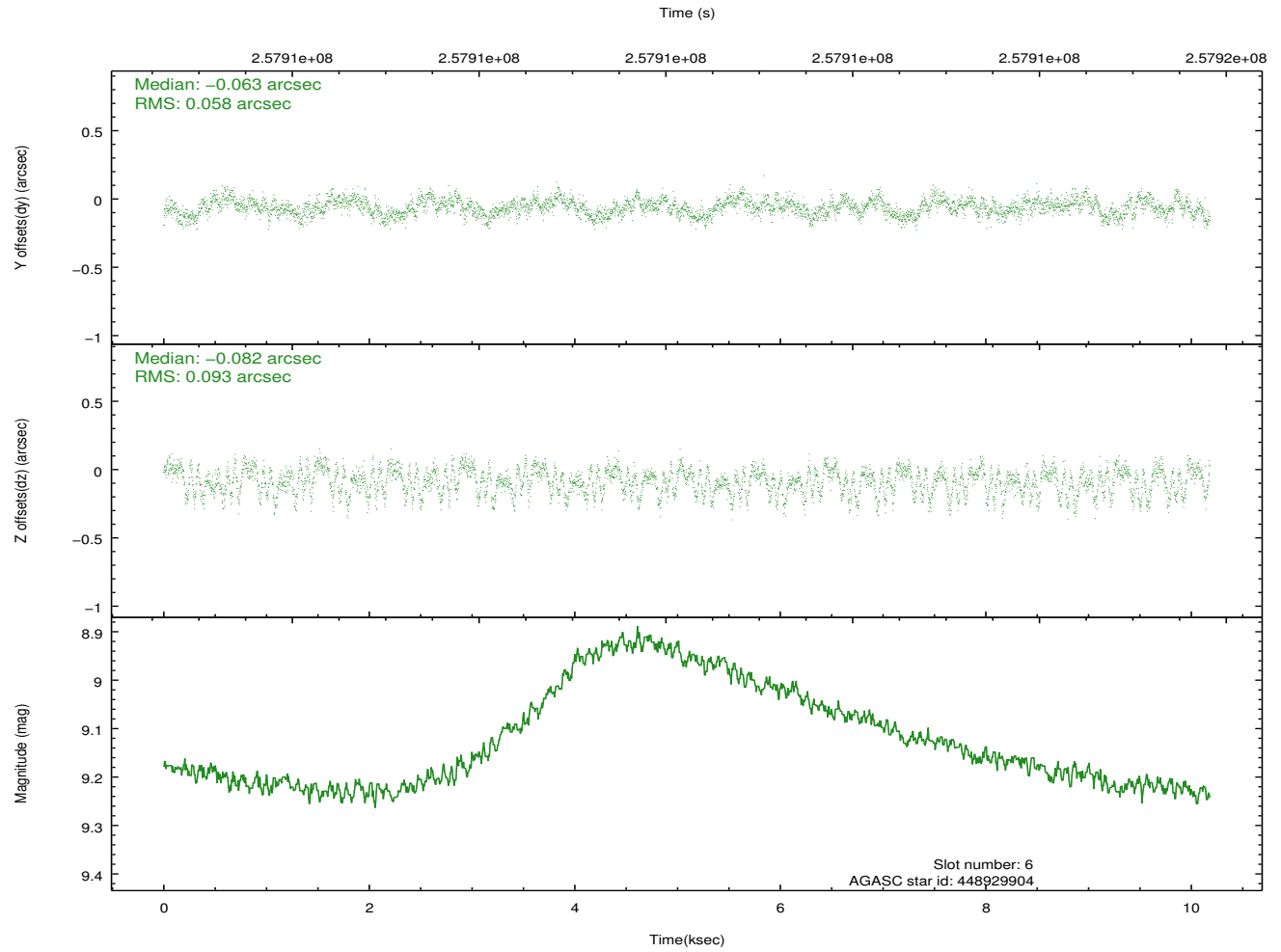
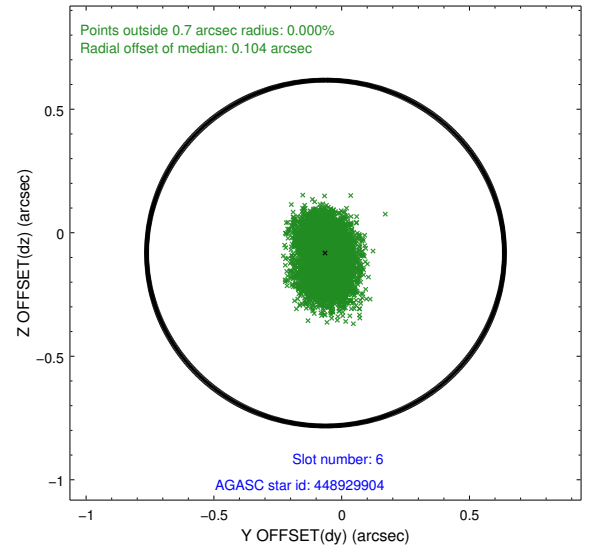
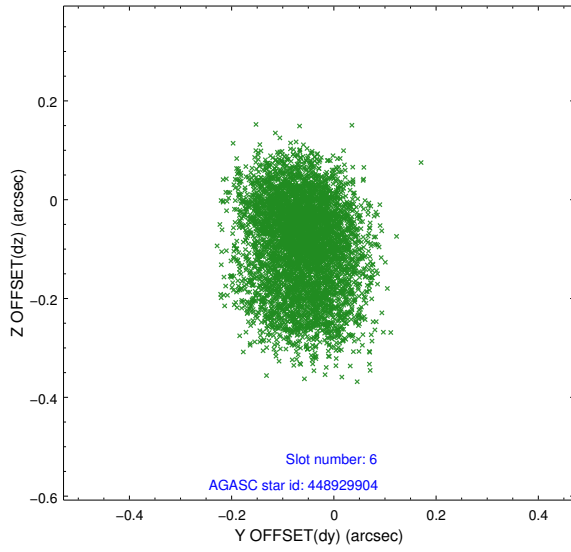
## 2.4.2 Slot 4



### 2.4.3 Slot 5

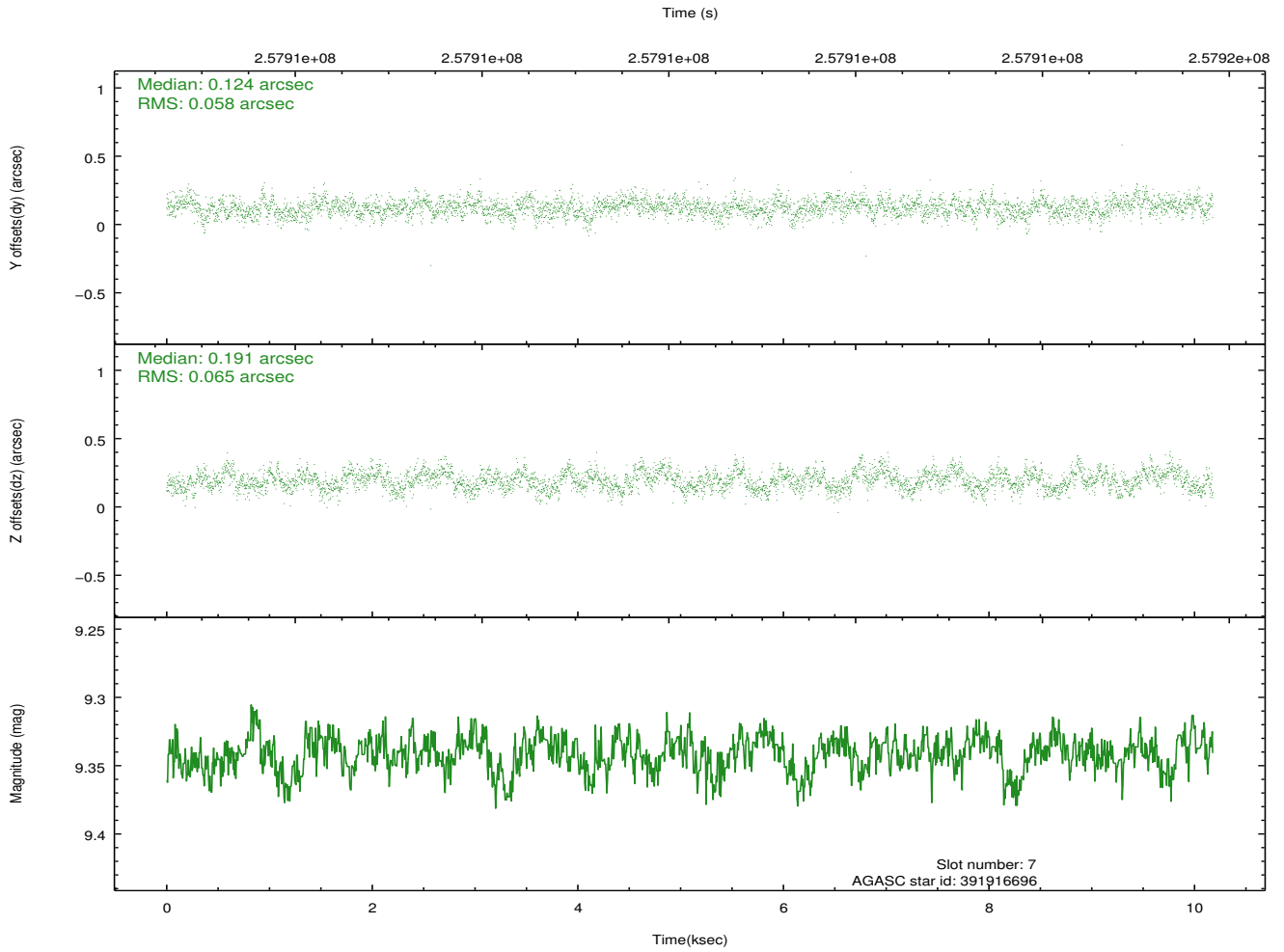
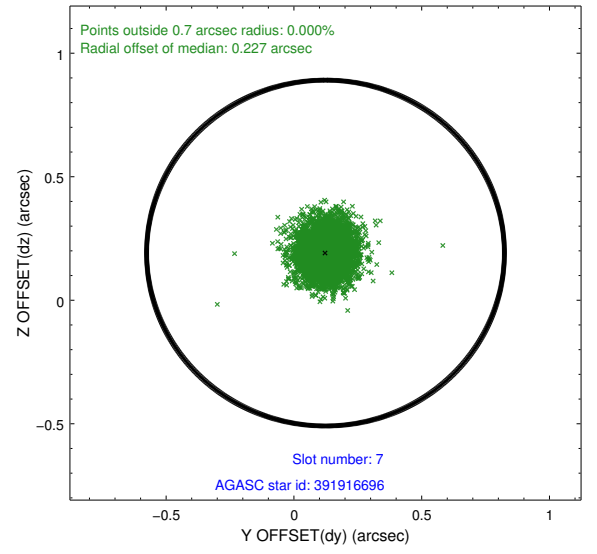
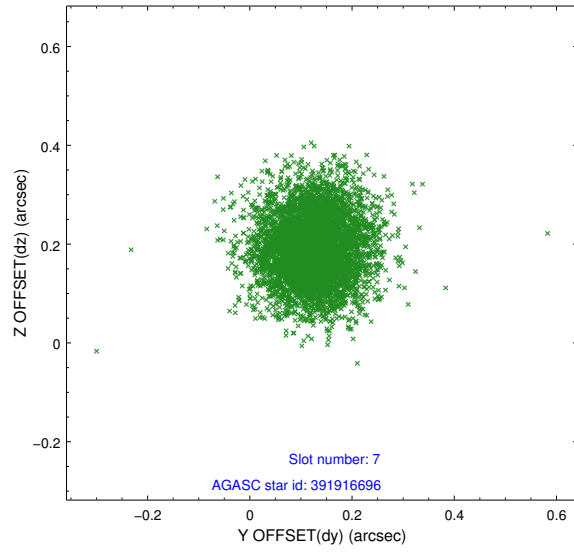


## 2.4.4 Slot 6



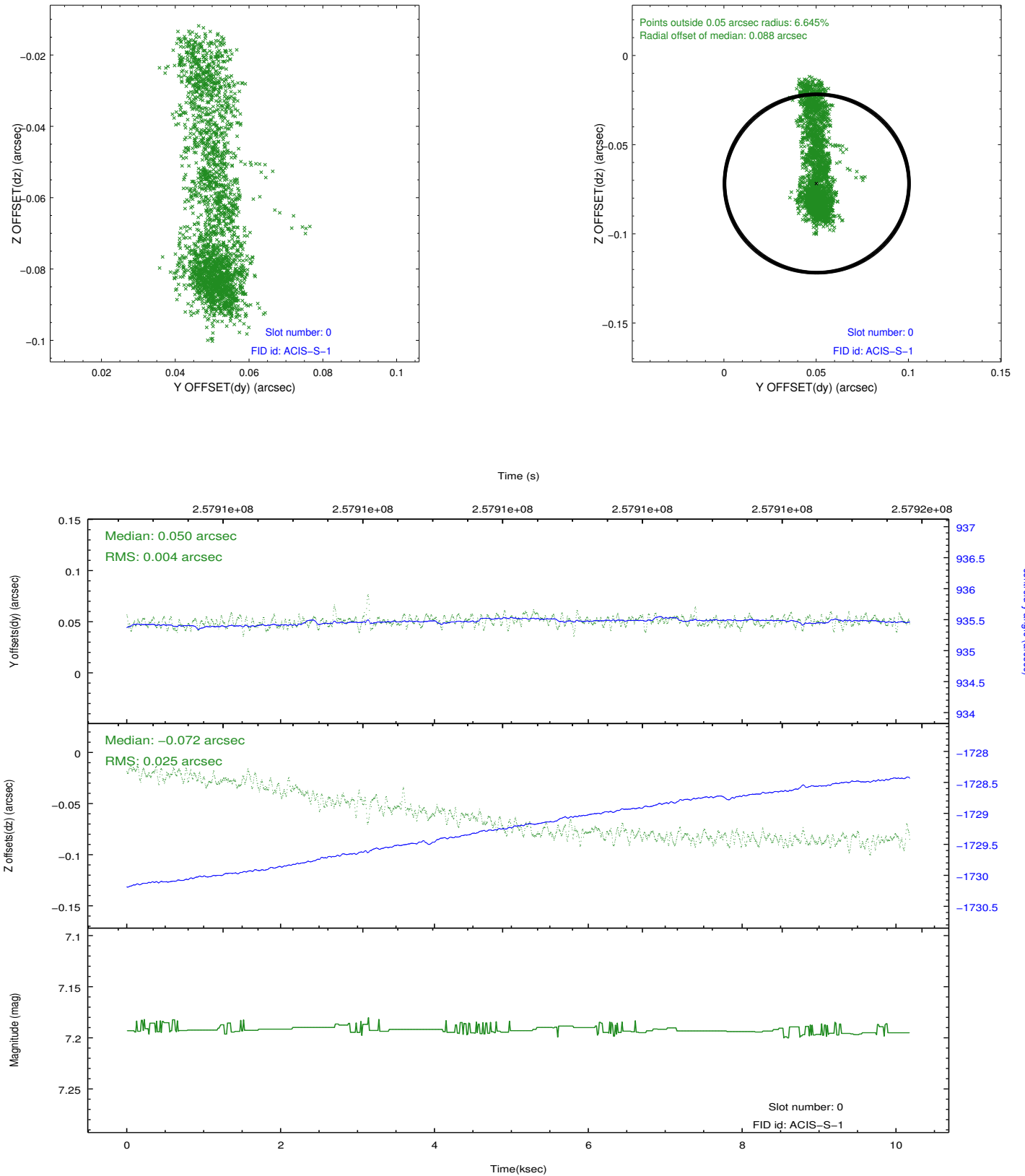


## 2.4.5 Slot 7

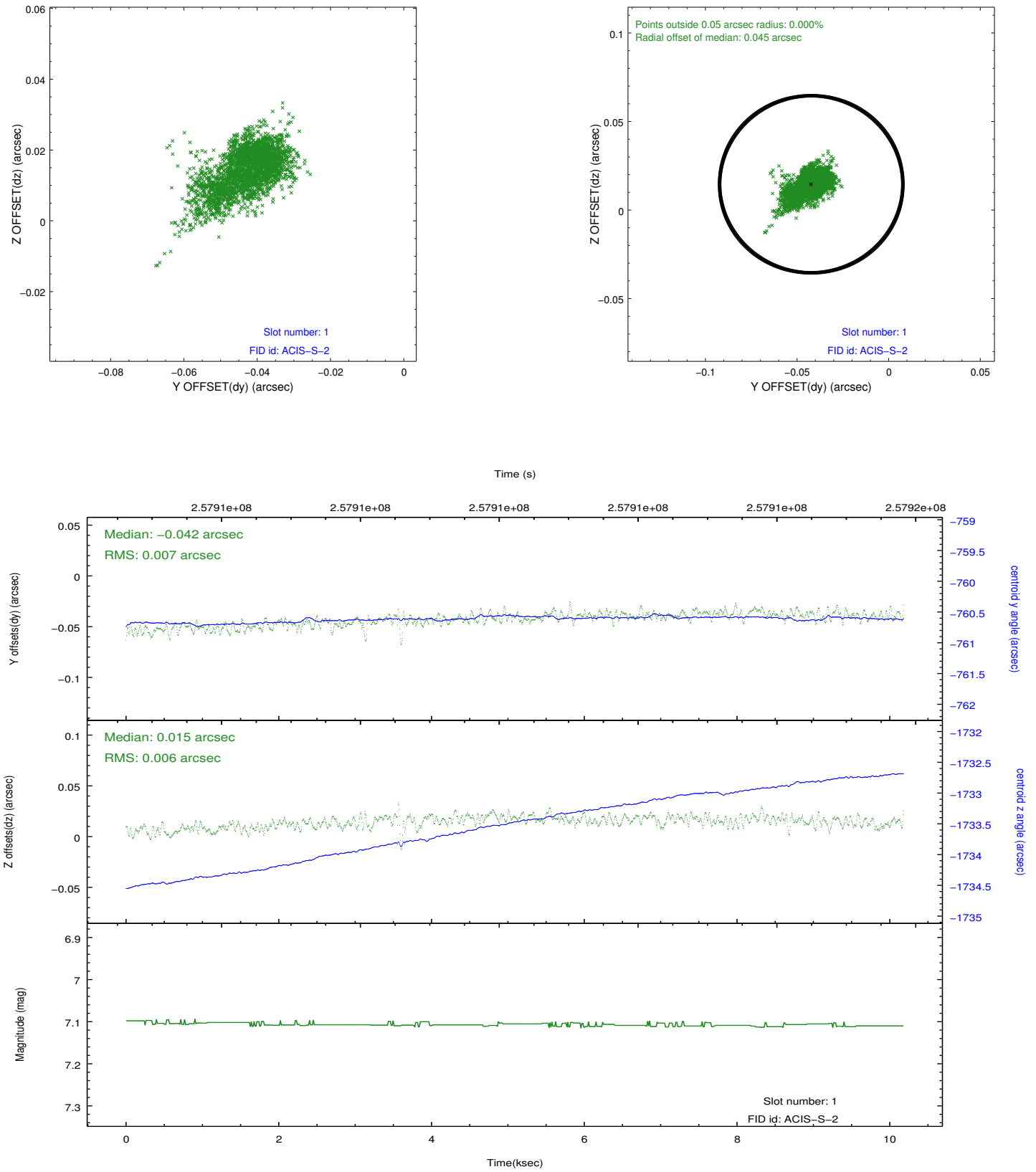


## 2.5 FID Slots

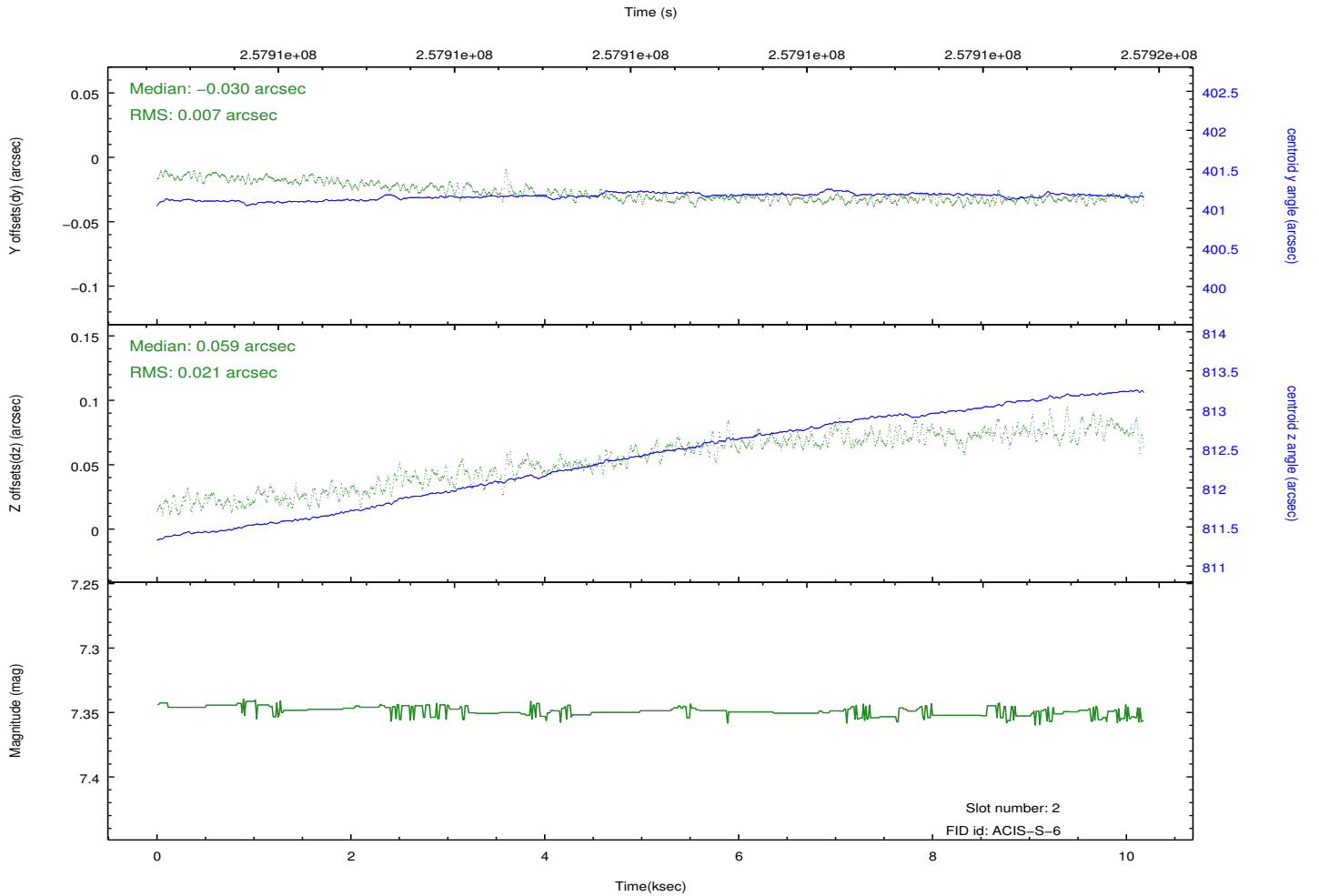
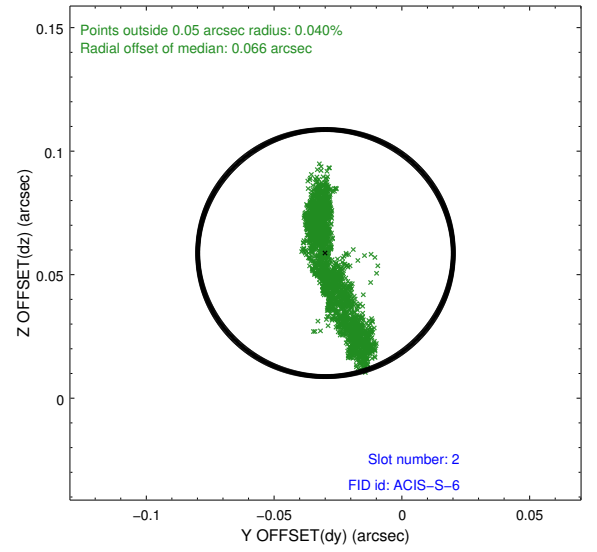
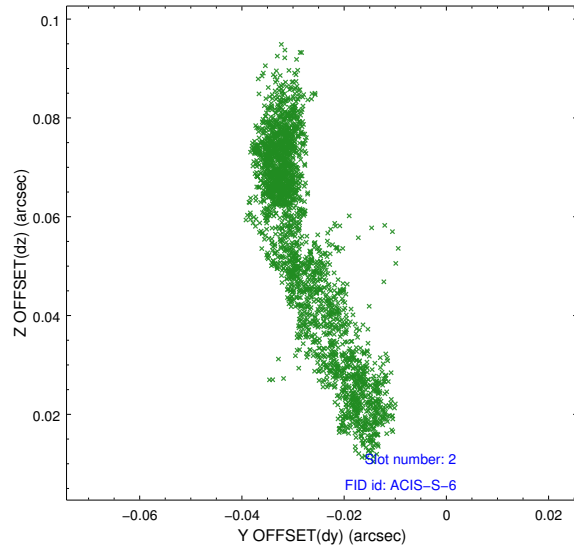
### 2.5.1 Slot 0



## 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)	2012.03.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.1759999

### A.2 Comments