

# V&V Reference Report

## L2 ASCDS Version : 8.4.3

Observation 13530 - L2 Version 2  
Chandra X-Ray Center

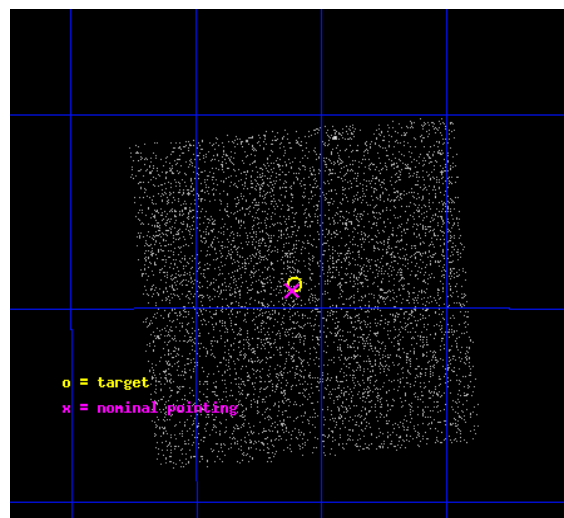
L2 Processing Date : Feb 25 2012

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# 1 Front

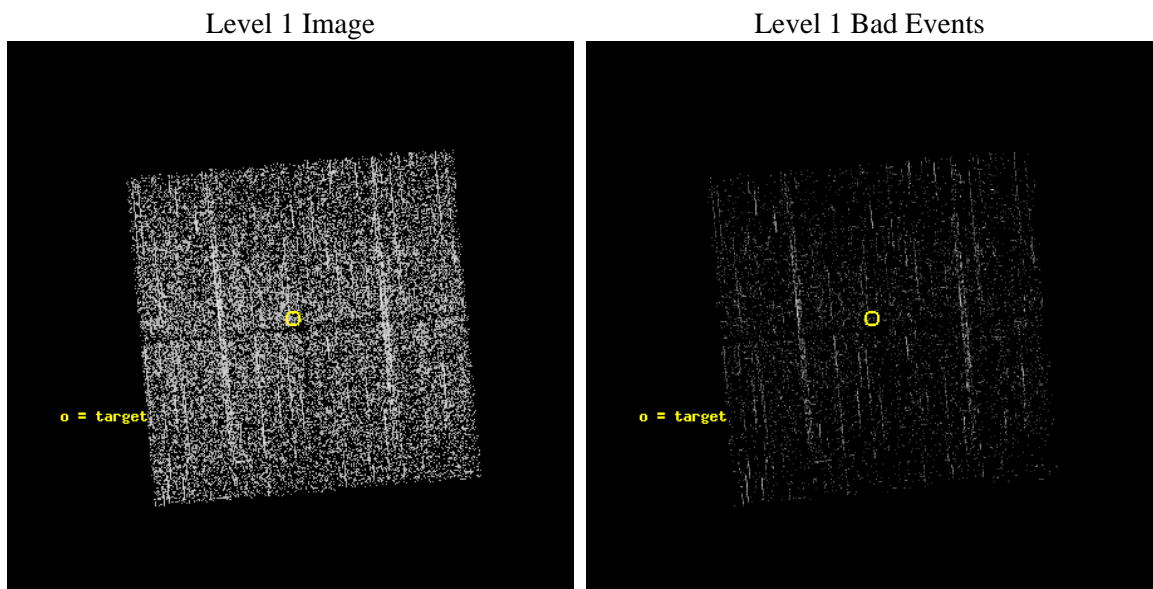
seq_num	401306	Sequence number
obs_id	13530	Observation id
title	Completing the Galactic Bulge Survey: categorizing the plethora of faint X-ray sources in the Galactic Bulge	Proposal title
observer	dr P Jonker	Principal investigator
object	GBS13-1	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	268.527344	Observer's specified target RA [deg]
dec_targ	-29.145993	Observer's specified target Dec [deg]
ra_nom	268.52978057696	Nominal RA [deg]
dec_nom	-29.151543564829	Nominal Dec [deg]
roll_nom	264.99642691788	Nominal Roll [deg]
revision	2	Processing version of data
ontime	1971.6000151634	Sum of GTIs [s]
livetime	1945.8396094945	Livetime [s]
ontime0	1971.6000151634	Sum of GTIs [s]
ontime1	1971.6000151634	Sum of GTIs [s]
ontime2	1971.6000151634	Sum of GTIs [s]
ontime3	1971.6000151634	Sum of GTIs [s]
l2events	6483	Number of level 2 events



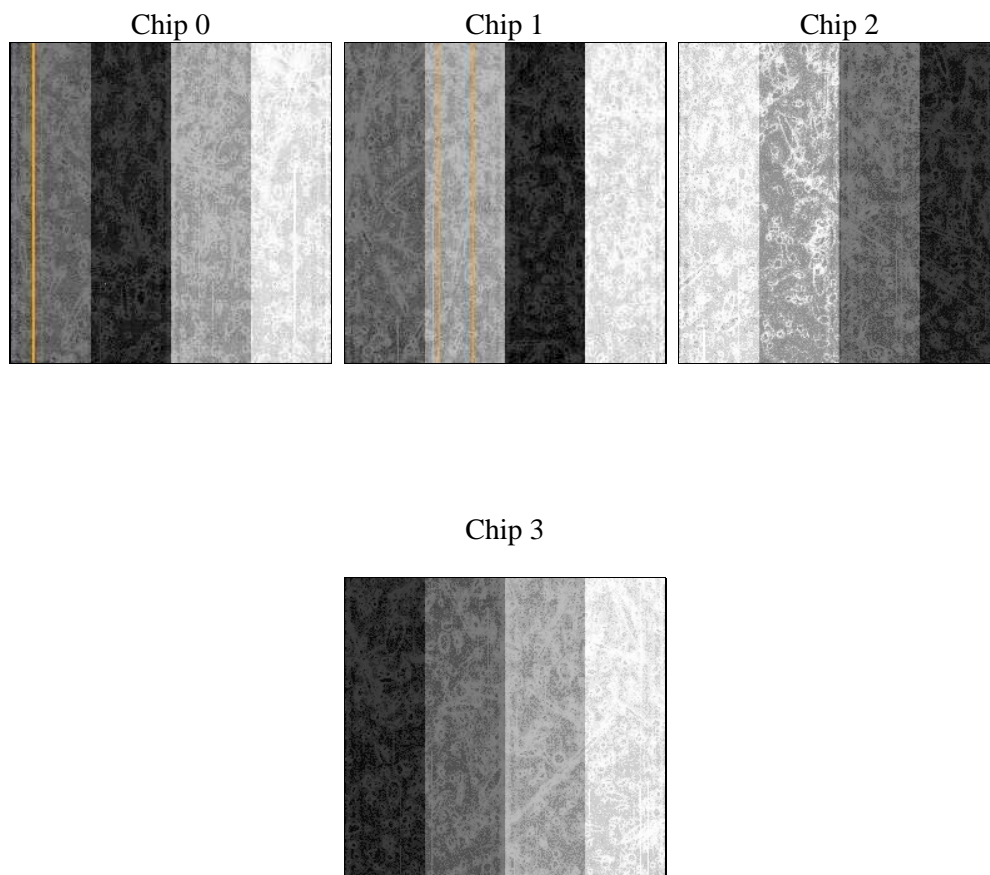
## 2 OBI

### 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	1971.6000151634	Sum of GTIs [s]
caldsver	4.4.8	&#160	ontime0	1971.6000151634	Sum of GTIs [s]
date	2012-02-26T01:07:22	Date and time of file creation	ontime1	1971.6000151634	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	1971.6000151634	Sum of GTIs [s]
			ontime3	1971.6000151634	Sum of GTIs [s]
			l1events	45269	Number of level 1 events

### 2.1.4 Events

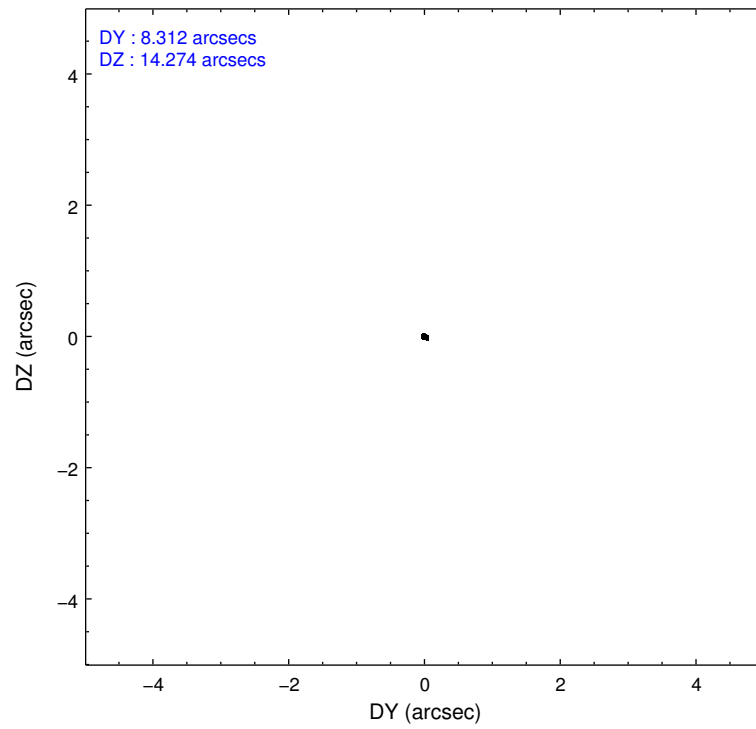
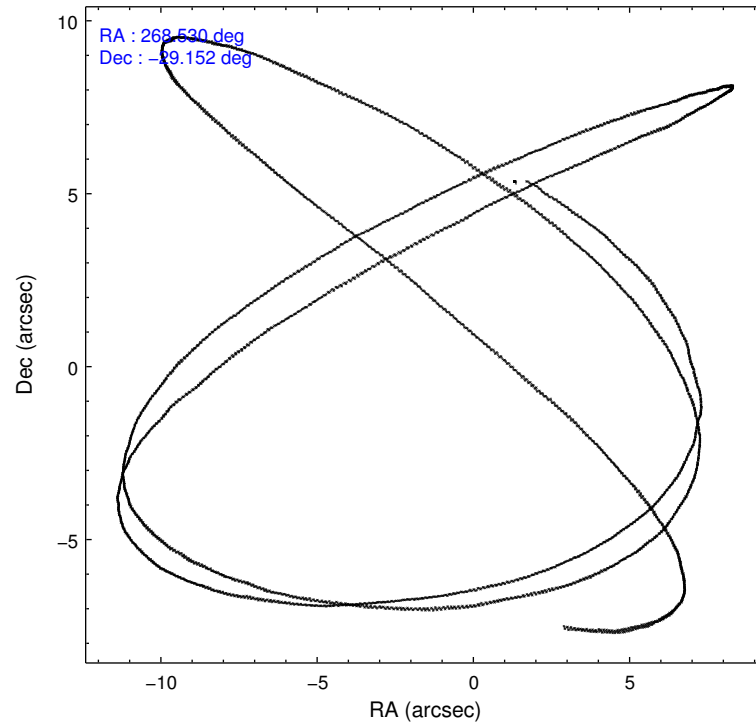
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	10227	11226	11929	11887
rejected events	8363	9260	10104	10063
rejected %	81%	82%	84%	84%

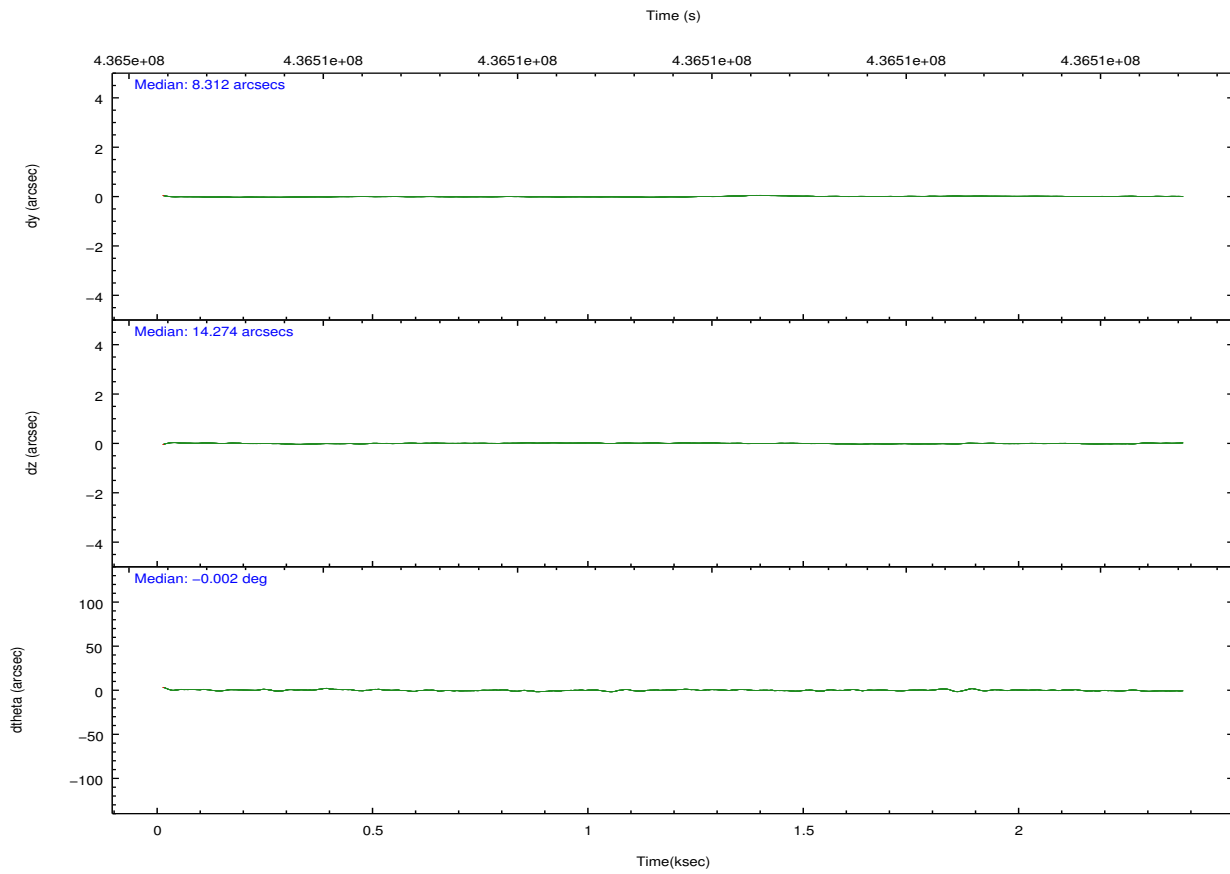
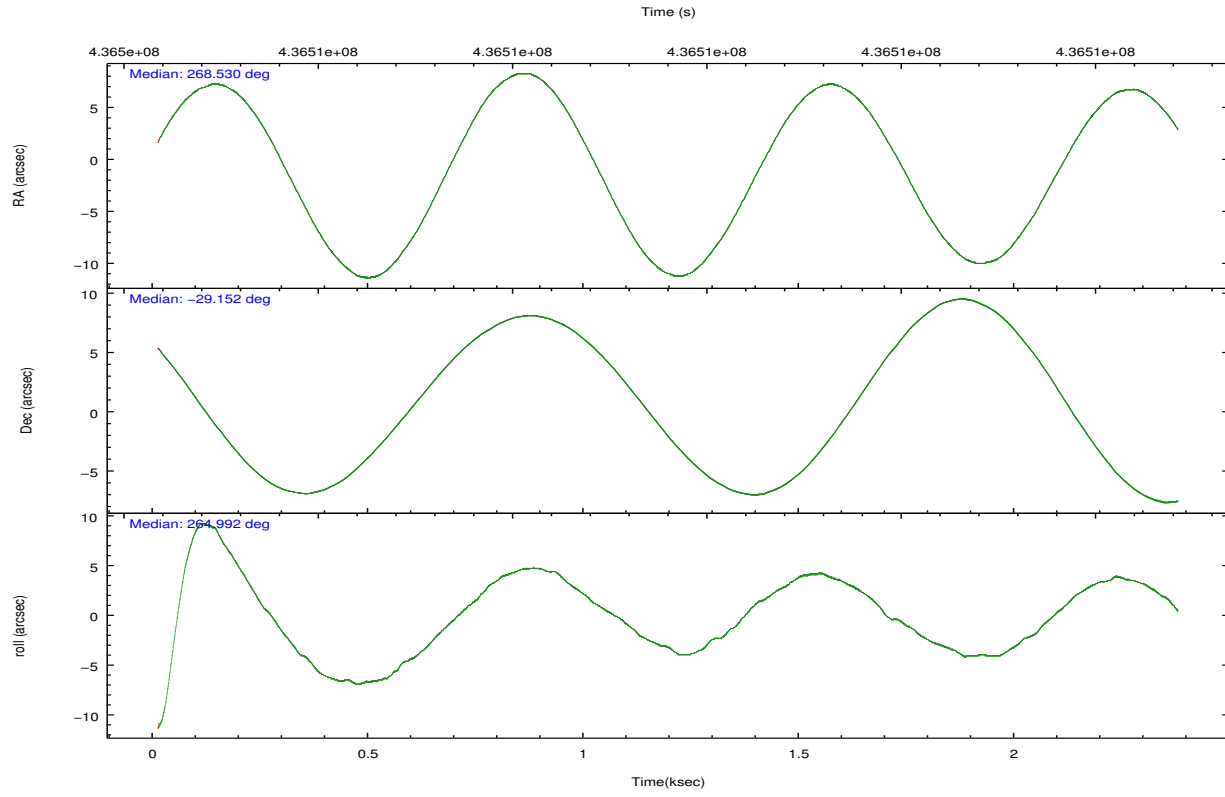
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	828	929	861	902
	8%	8%	7%	7%
grade 1 events	13	12	8	4
	0%	0%	0%	0%
grade 2 events	406	382	396	324
	3%	3%	3%	2%
grade 3 events	187	151	130	167
	1%	1%	1%	1%
grade 4 events	158	171	158	160
	1%	1%	1%	1%
grade 5 events	495	581	491	592
	4%	5%	4%	4%
grade 6 events	292	340	288	282
	2%	3%	2%	2%
grade 7 events	7848	8660	9597	9456
	76%	77%	80%	79%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-0123	ACIS-0123	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	268.516168	268.5297805769555	Subarray requested	NONE	NONE
[deg] Pointing Dec	-29.126525	-29.15154356482891	Alternating exposures requested	N	N
[deg] Pointing Roll	264.781214	264.9964269178842	[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	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	436505419.184000	436505042.78107			
Observation start date	2011-11-01T03:29:13	2011-11-01T03:24:02			
[s] Observation end time (MET)	436507599.184000	436507732.89371			
Observation end date	2011-11-01T04:05:33	2011-11-01T04:08:52			
Read mode	TIMED	TIMED			

## 2.3 Aspect





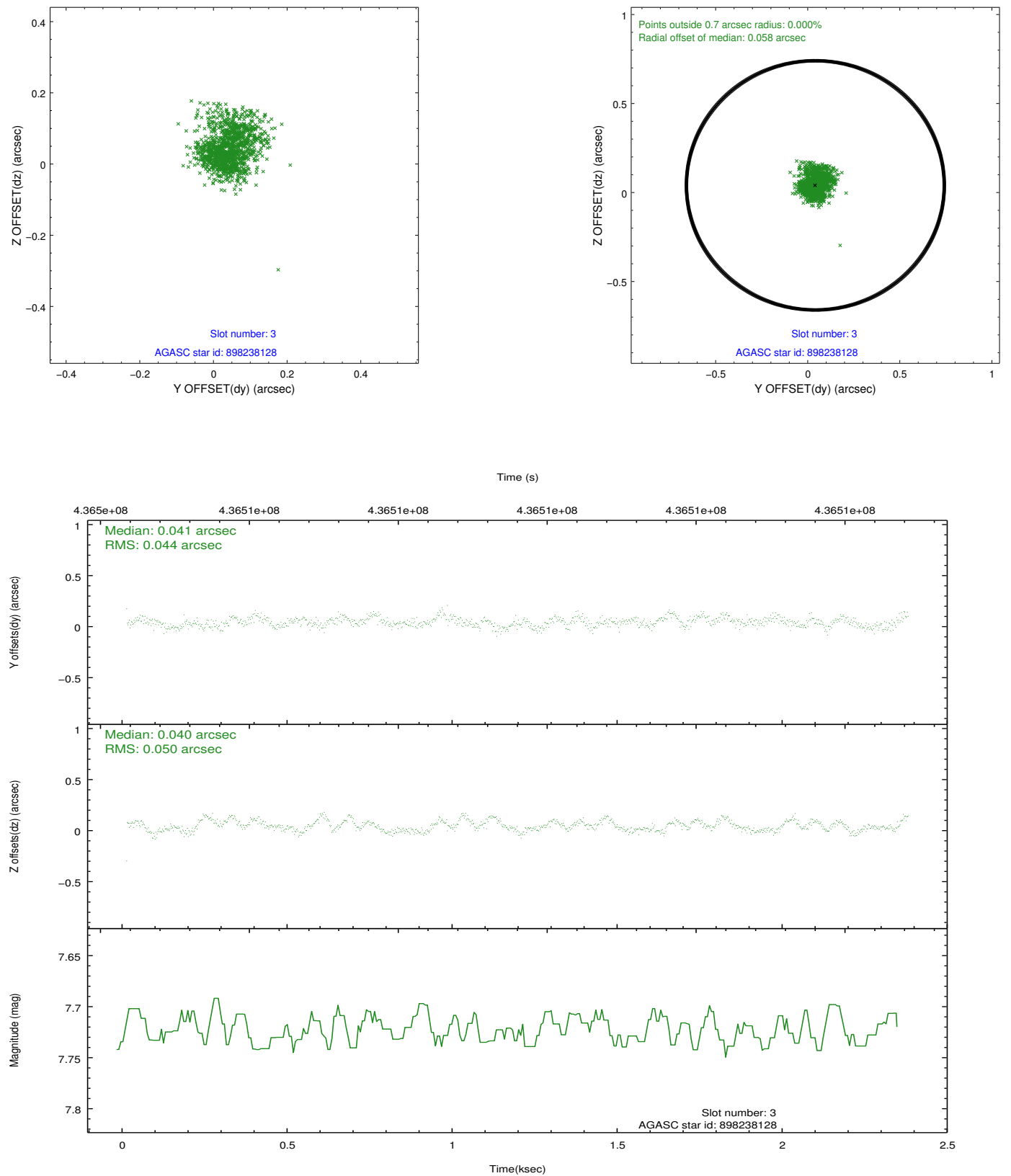
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-2	6.93	578	-0.096	-0.116	0.009	0.017	0.000000	0.000000	-762.95	-844.33
1	FID	ACIS-I-4	6.95	578	0.249	0.089	0.008	0.014	0.000000	0.000000	2150.23	1060.64
2	FID	ACIS-I-5	7.00	578	-0.254	0.096	0.010	0.016	0.000000	0.000000	-1813.39	1061.65
3	GUIDE	898238128	7.72	1156	0.041	0.040	0.070	0.114	268.450740	-28.688500	-1551.55	-349.82
4	GUIDE	898243064	8.72	1156	0.102	0.138	0.062	0.105	268.852106	-29.678564	1883.67	1226.91
5	GUIDE	898243552	8.72	1155	-0.340	-0.284	0.082	0.134	267.970066	-28.622317	-1645.40	-1883.26
6	GUIDE	898250872	7.07	1155	0.143	0.014	0.049	0.081	268.026303	-29.632040	1953.67	-1362.71
7	GUIDE	898267256	9.39	1153	0.053	0.094	0.094	0.157	269.153744	-29.049851	-450.54	1971.94

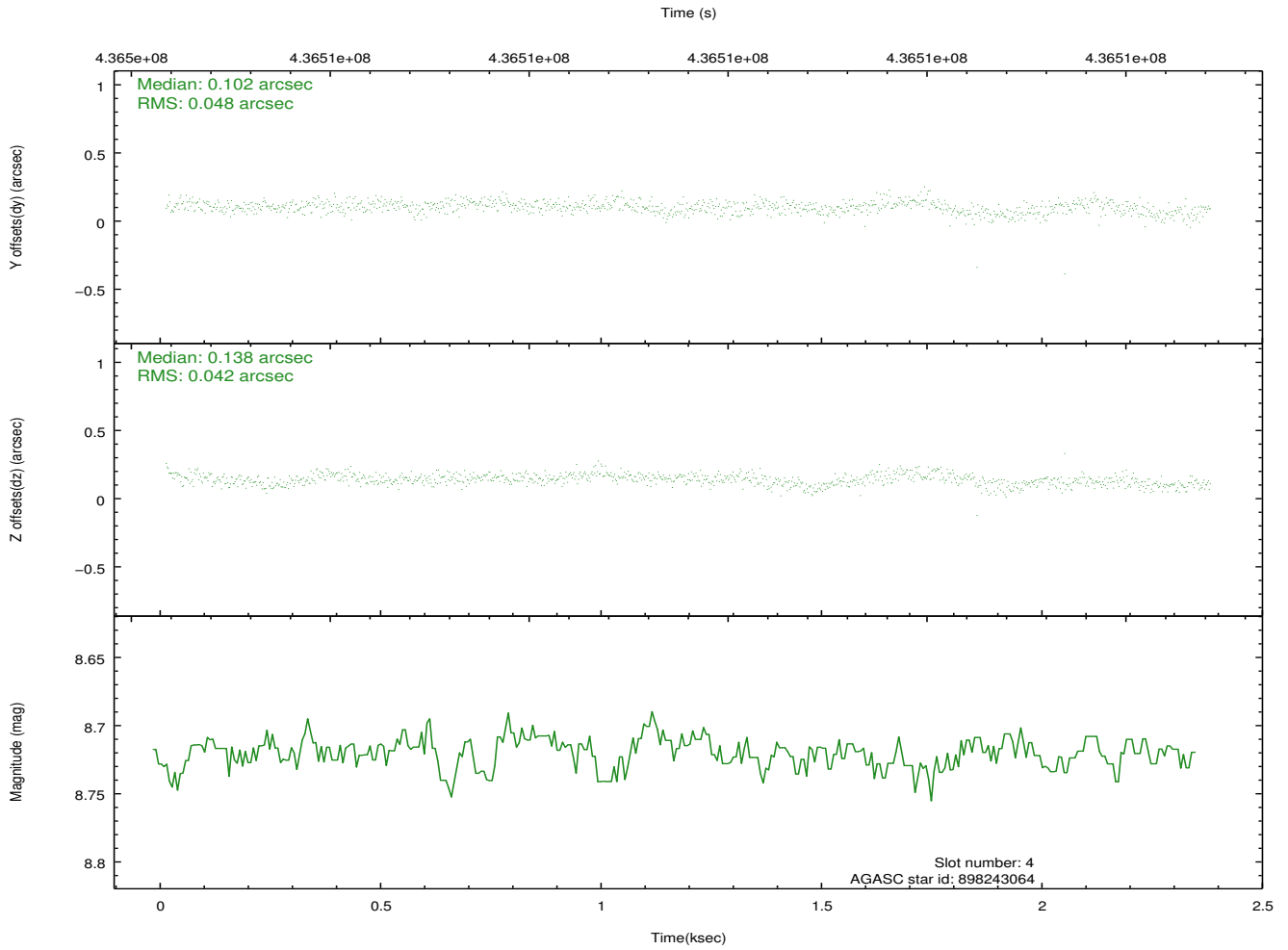
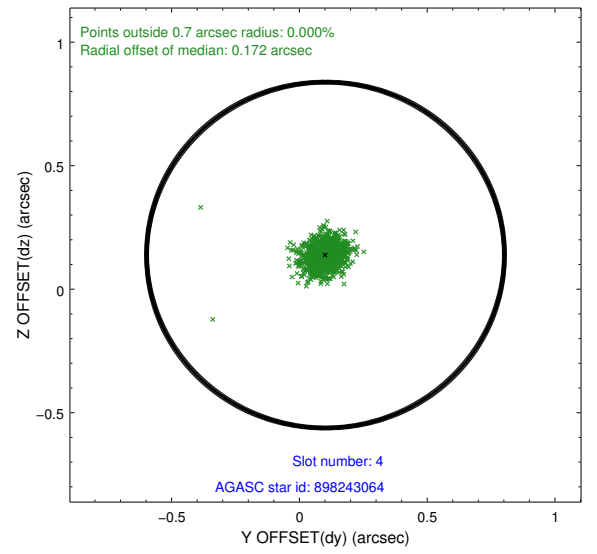
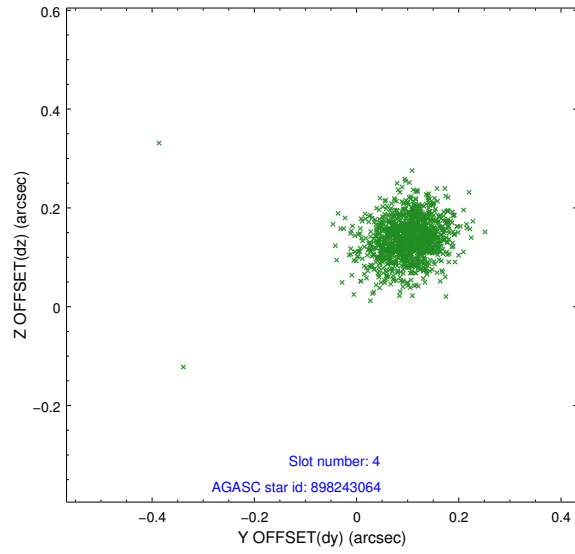


## 2.4 Star Slots

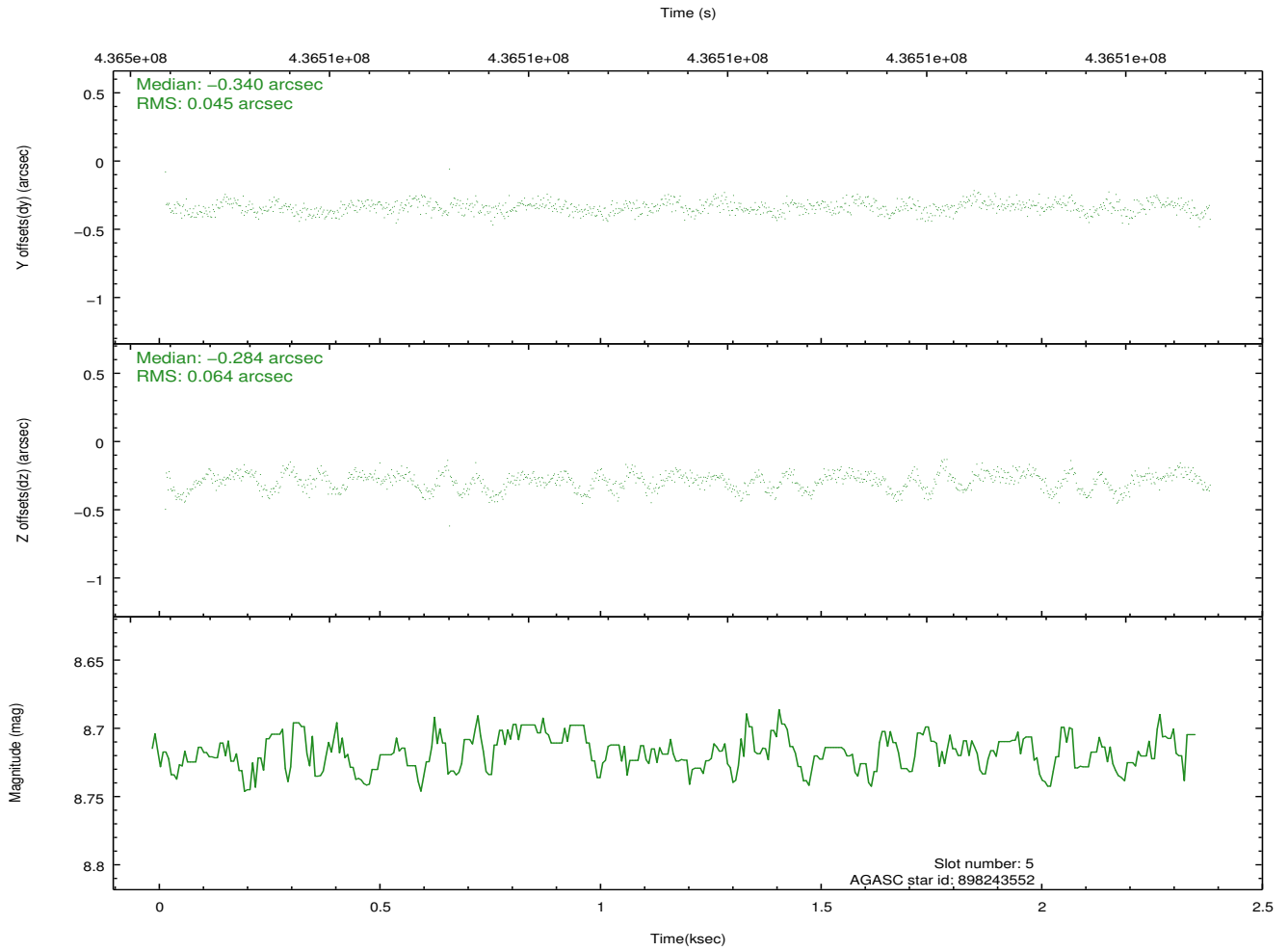
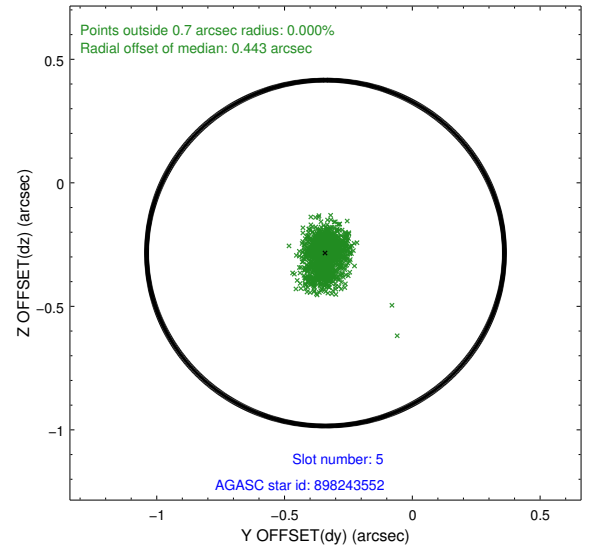
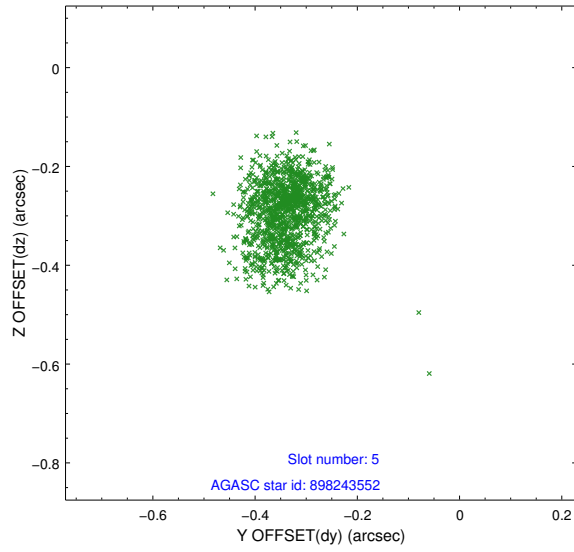
### 2.4.1 Slot 3



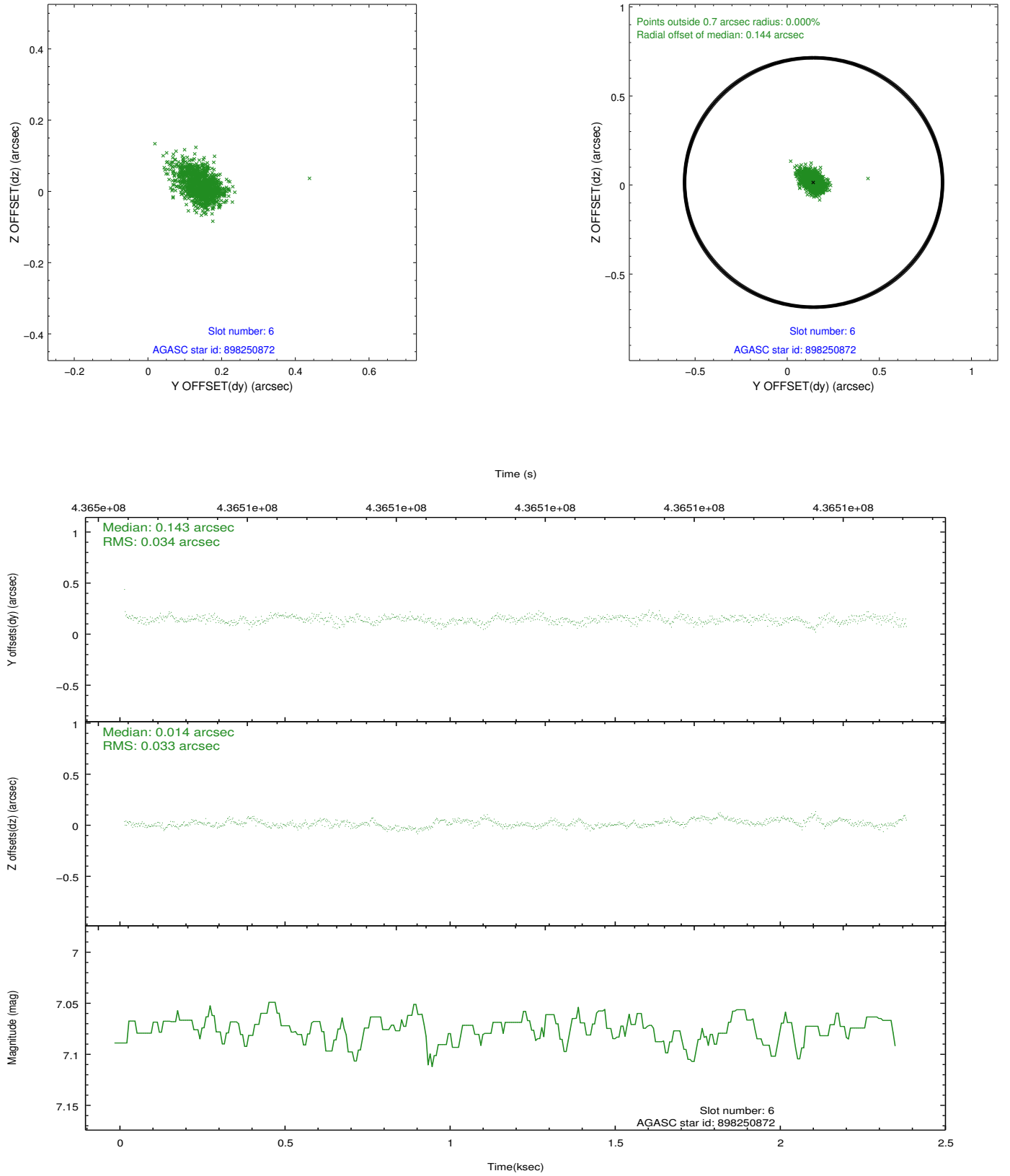
## 2.4.2 Slot 4



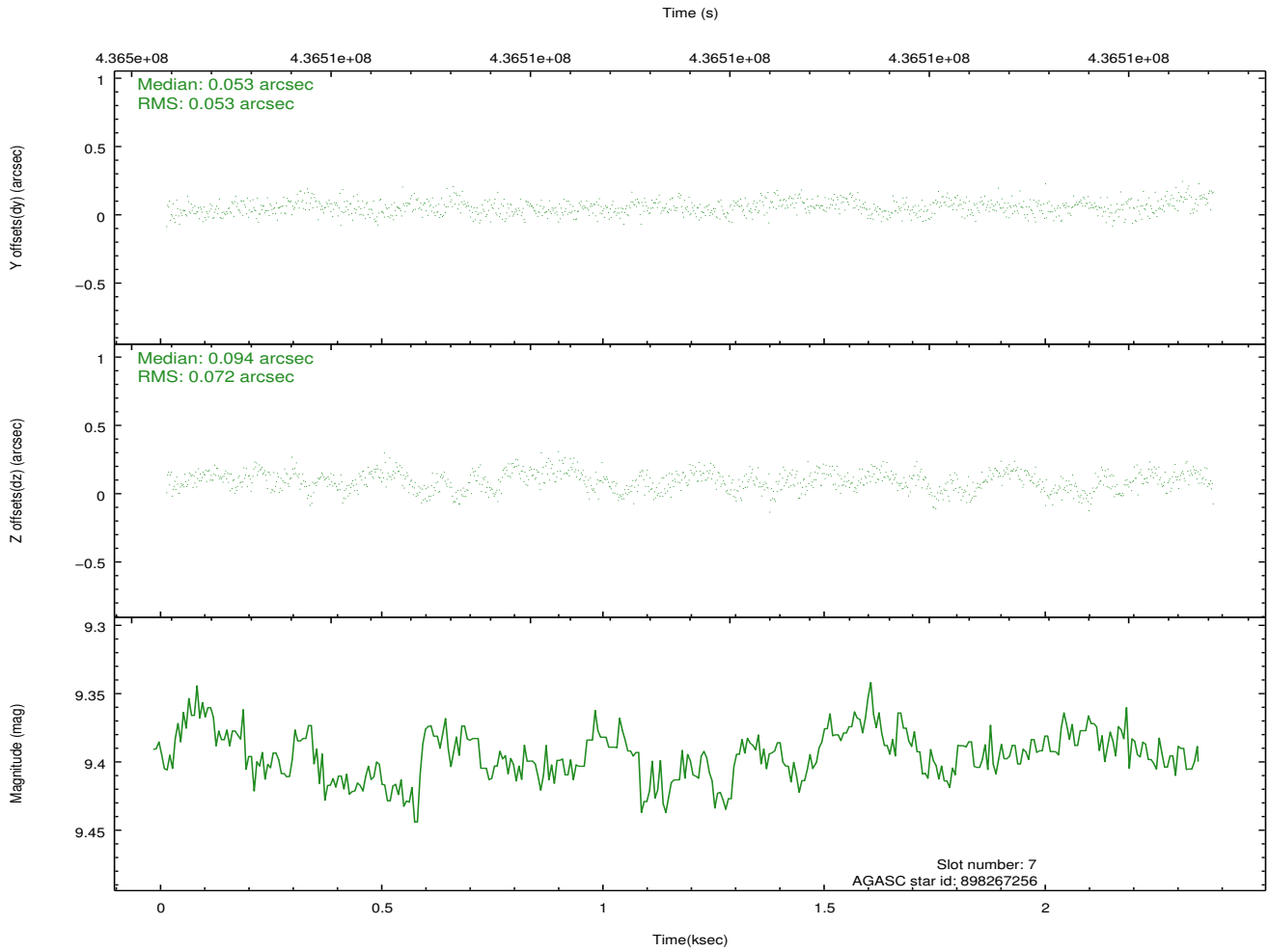
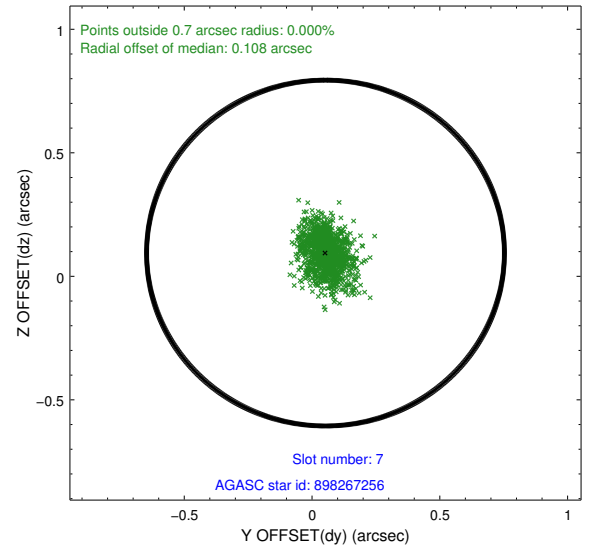
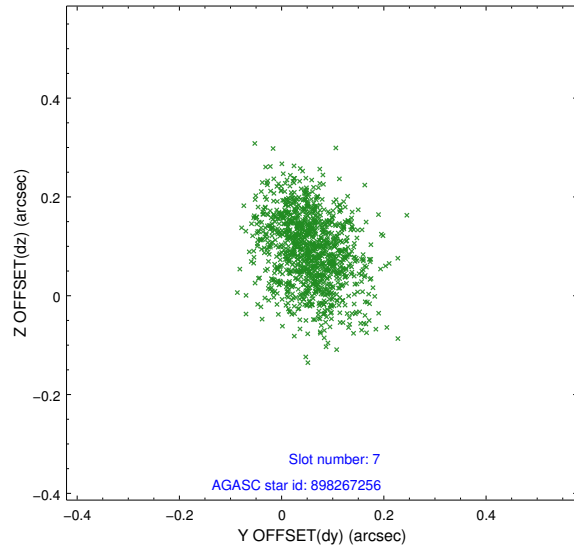
### 2.4.3 Slot 5



## 2.4.4 Slot 6

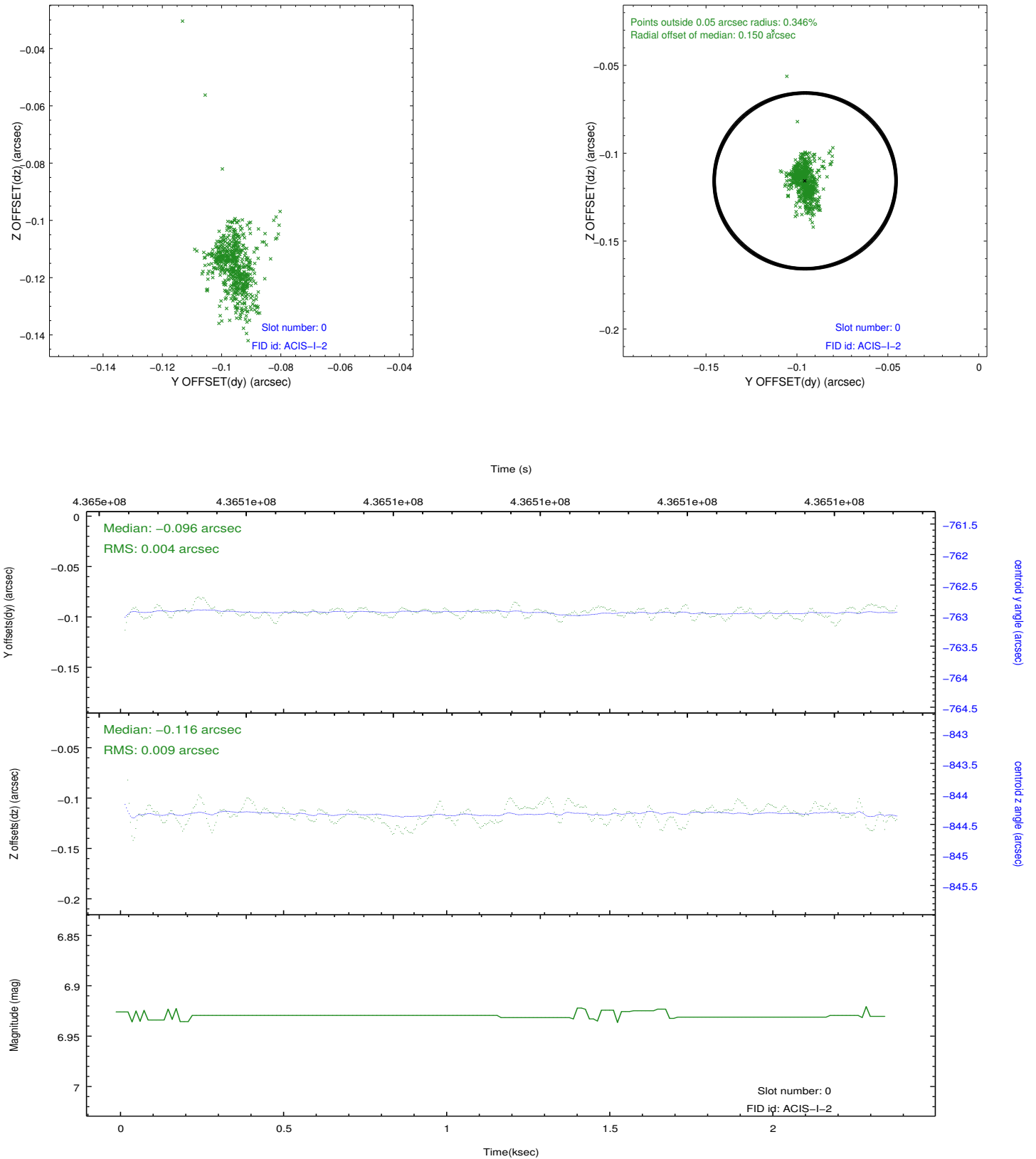


## 2.4.5 Slot 7

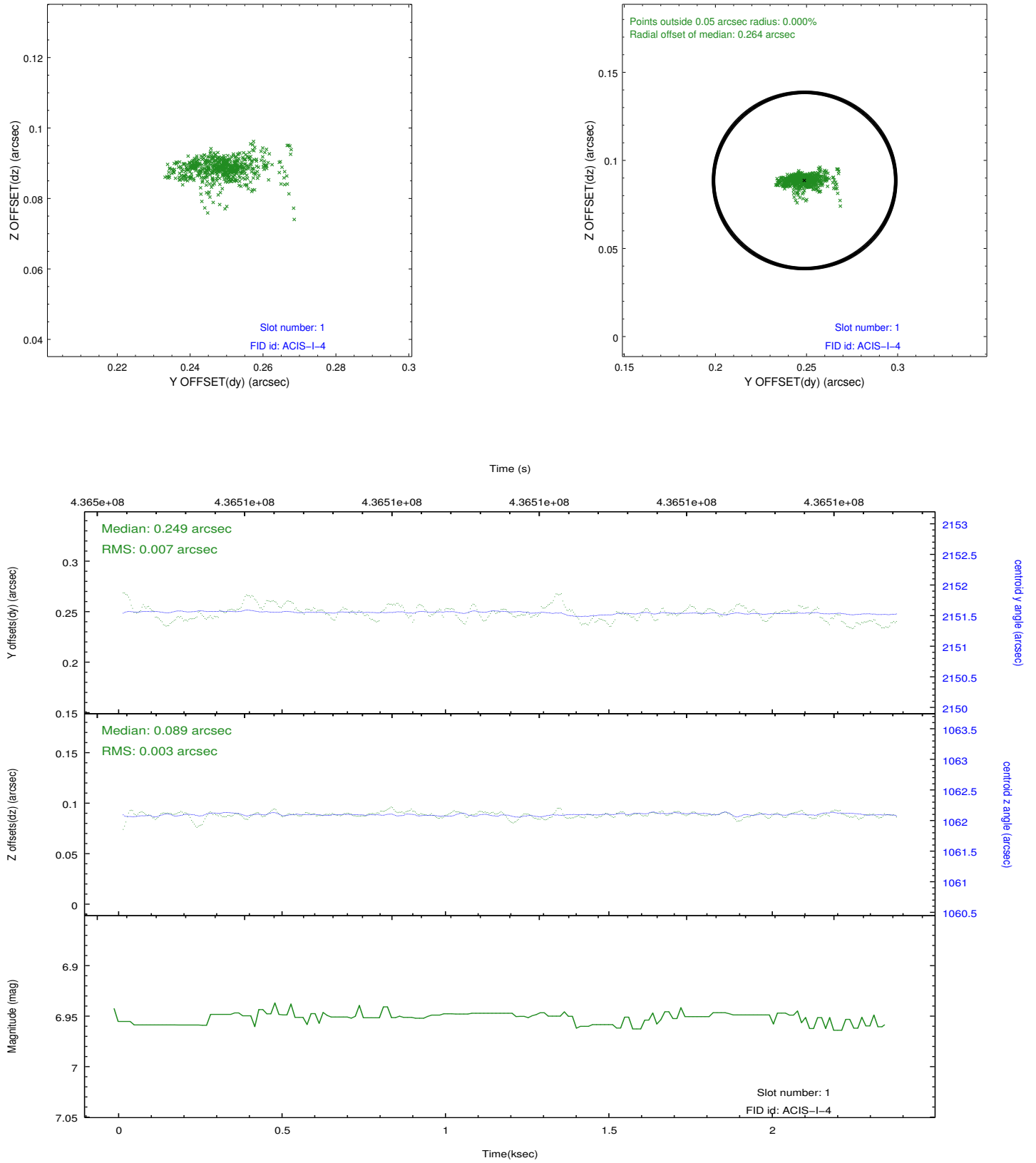


## 2.5 FID Slots

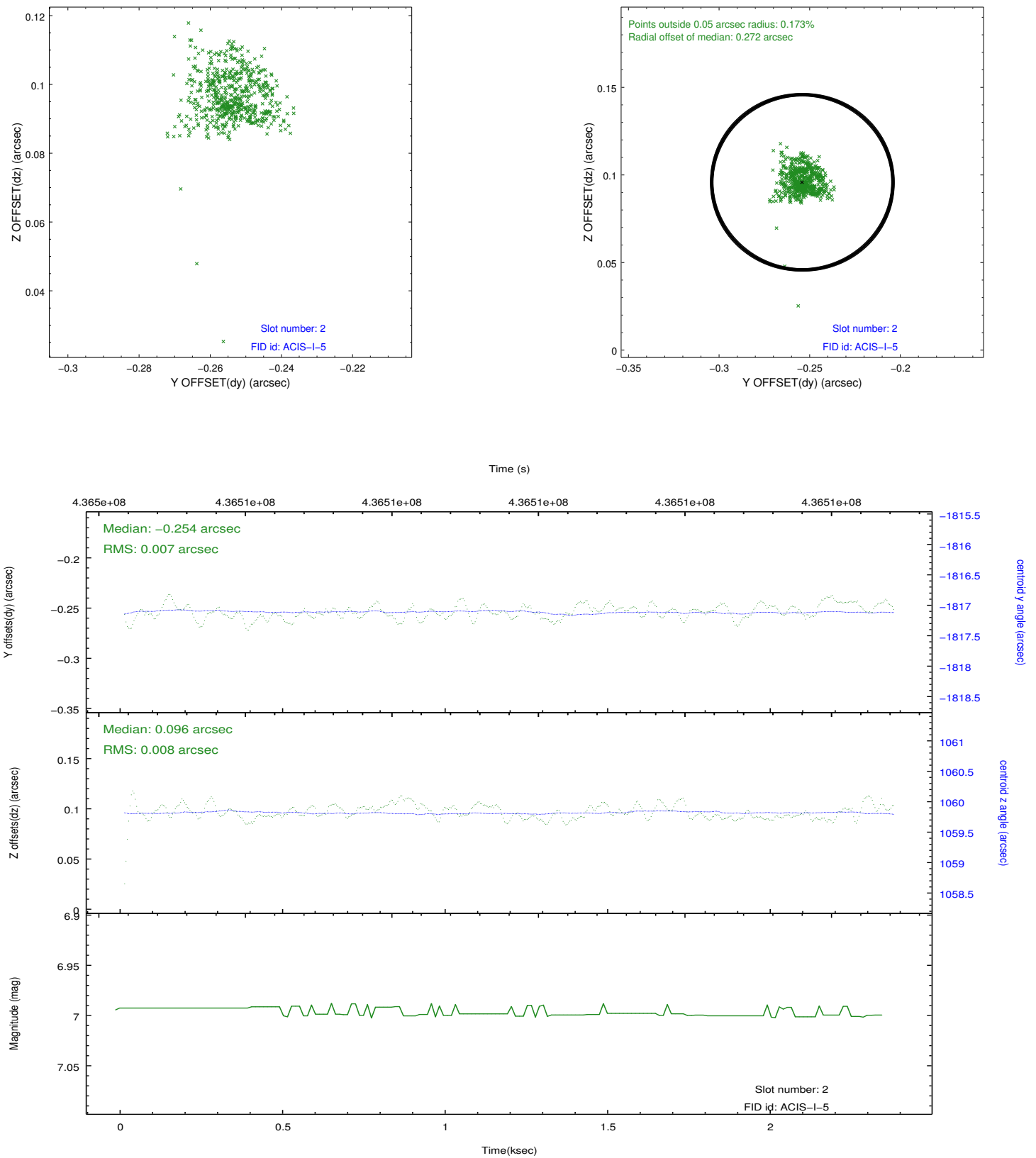
### 2.5.1 Slot 0



## 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)	2012.02.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.9716000151634

## A.2 Comments

Joint proposal: NOAO