

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 8678 - L2 Version 2  
Chandra X-Ray Center

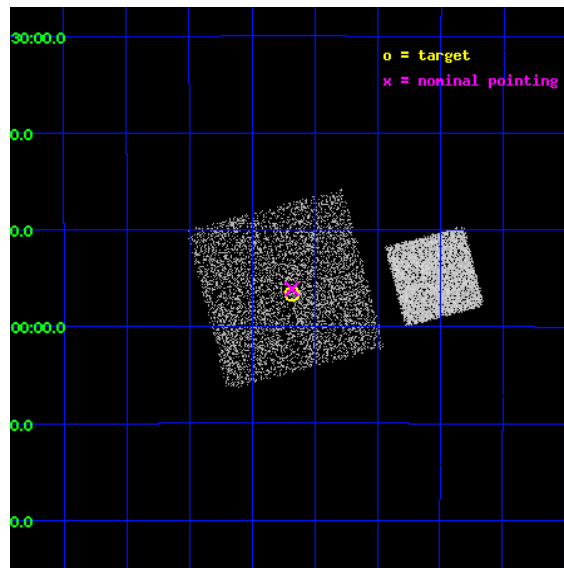
L2 Processing Date : May 15 2012

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# 1 Front

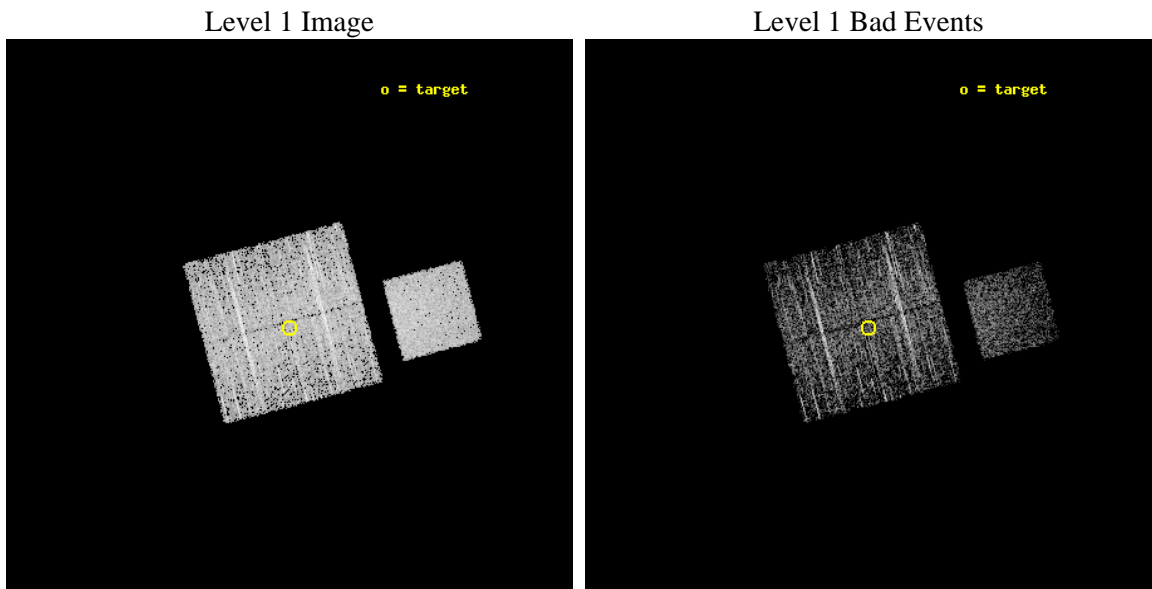
seq_num	400729	Sequence number
obs_id	8678	Observation id
title	The Galactic Bulge Survey: categorising the plethora of faint X-ray sources in the Galactic Bulge	Proposal title
observer	Prof Mariano Mendez	Principal investigator
object	GBSGTO4	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	264.921457	Observer's specified target RA [deg]
dec_targ	-28.943478	Observer's specified target Dec [deg]
ra_nom	264.92096738771	Nominal RA [deg]
dec_nom	-28.935252910064	Nominal Dec [deg]
roll_nom	75.208349200682	Nominal Roll [deg]
revision	2	Processing version of data
ontime	2194.80001688	Sum of GTIs [s]
livetime	2166.1233388712	Livetime [s]
ontime0	2194.80001688	Sum of GTIs [s]
ontime1	2194.80001688	Sum of GTIs [s]
ontime2	2194.80001688	Sum of GTIs [s]
ontime3	2194.80001688	Sum of GTIs [s]
ontime7	2194.80001688	Sum of GTIs [s]
l2events	15761	Number of level 2 events



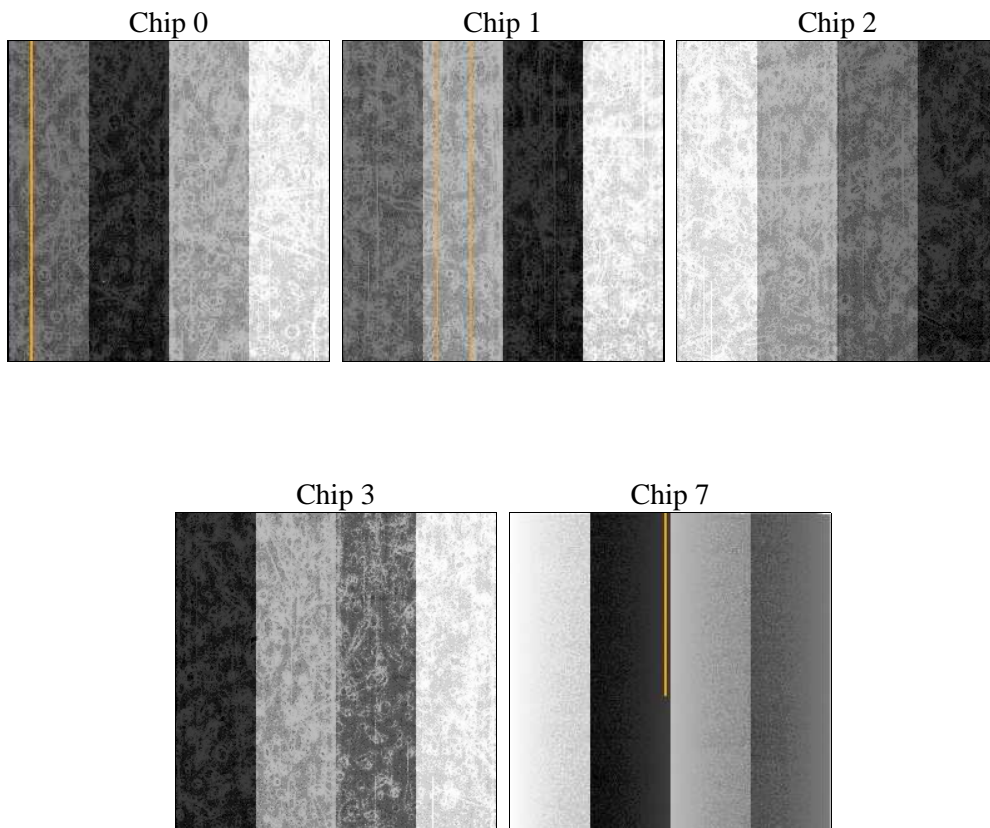
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	2000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	2194.80001688	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime0	2194.80001688	Sum of GTIs [s]
date	2012-05-15T04:52:07	Date and time of file creation	ontime1	2194.80001688	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	2194.80001688	Sum of GTIs [s]
			ontime3	2194.80001688	Sum of GTIs [s]
			ontime7	2194.80001688	Sum of GTIs [s]
			l1events	100060	Number of level 1 events

### 2.1.4 Events

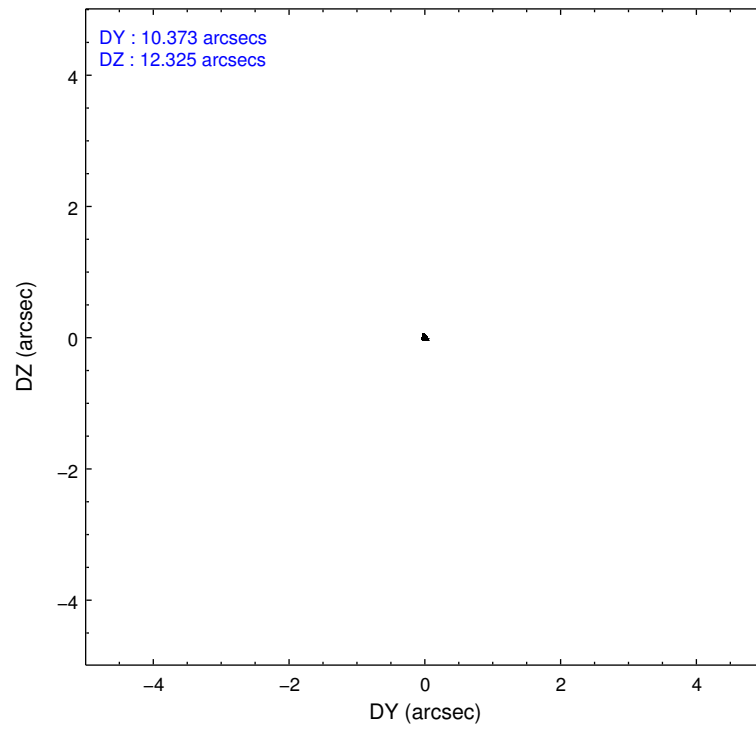
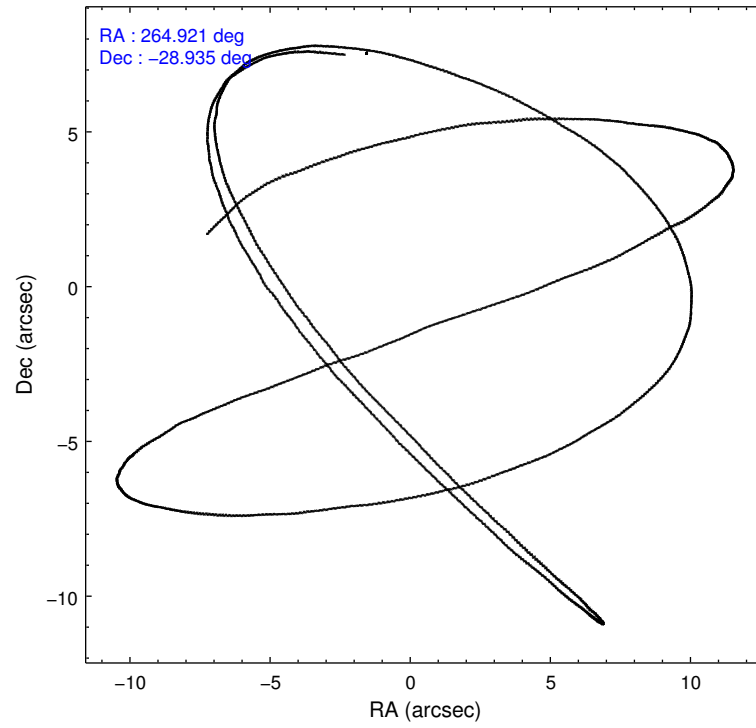
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	18563	19105	20625	19113	22654
rejected events	16501	17062	18626	17150	13348
rejected %	88%	89%	90%	89%	58%

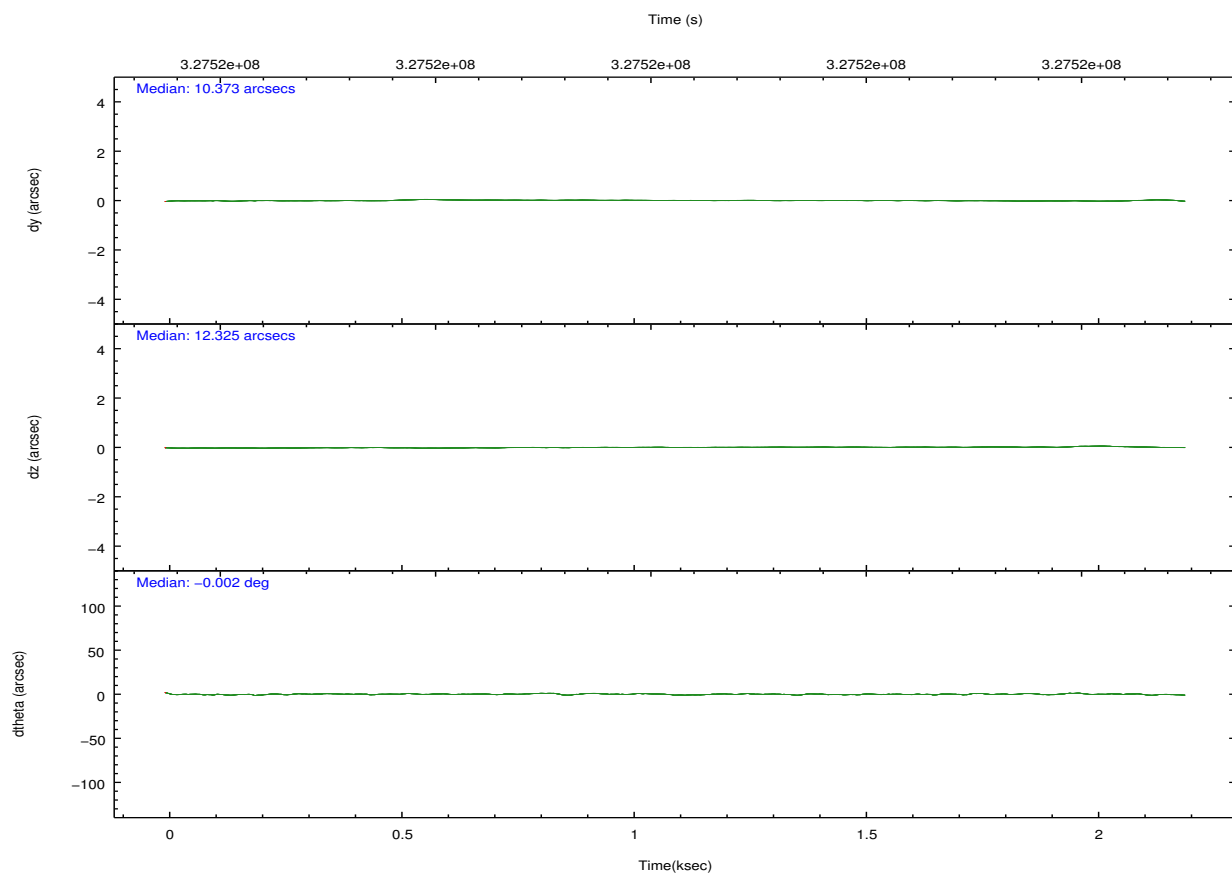
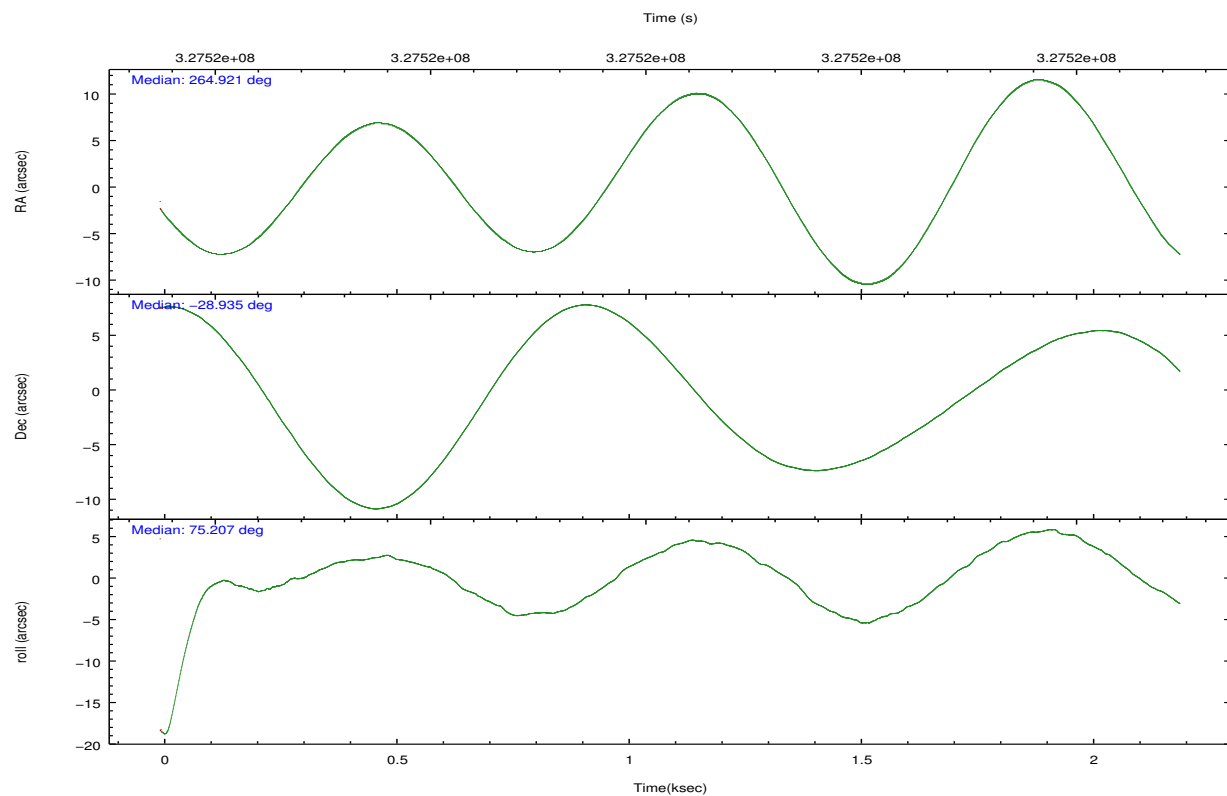
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
grade 0 events	910	965	956	915	1020
	4%	5%	4%	4%	4%
grade 1 events	8	14	9	5	32
	0%	0%	0%	0%	0%
grade 2 events	514	476	496	462	2144
	2%	2%	2%	2%	9%
grade 3 events	261	244	220	224	948
	1%	1%	1%	1%	4%
grade 4 events	276	220	236	209	1010
	1%	1%	1%	1%	4%
grade 5 events	683	772	653	836	2360
	3%	4%	3%	4%	10%
grade 6 events	411	437	382	433	5463
	2%	2%	1%	2%	24%
grade 7 events	15500	15977	17673	16029	9677
	83%	83%	85%	83%	42%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01237	ACIS-01237	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	264.929418	264.9209673877129	CCD I2 on	Y	Y
[deg] Pointing Dec	-28.961911	-28.9352529100645	CCD I3 on	Y	Y
[deg] Pointing Roll	75.003855	75.20834920068171	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	N	N
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O1	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	327520153.184000	327519777.48547	CCD S5 on	N	N
Observation start date	2008-05-18T17:48:08	2008-05-18T17:42:57	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	327522153.184000	327522287.71059	On-chip summing requested	N	N
Observation end date	2008-05-18T18:21:28	2008-05-18T18:24:47	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect





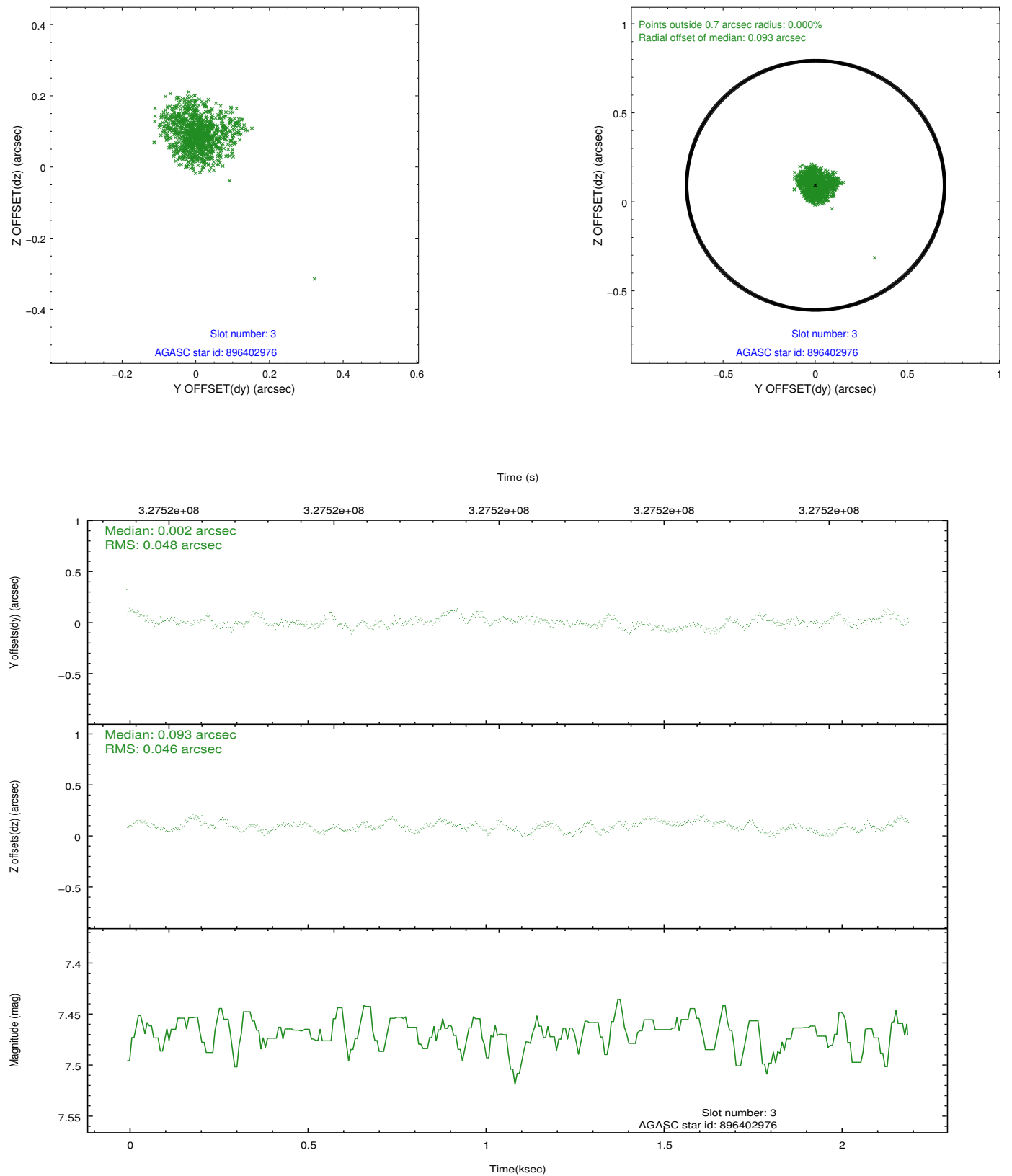
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.06	536	0.004	-0.031	0.009	0.014	0.000000	0.000000	929.22	-835.88
1	FID	ACIS-I-4	6.99	536	0.068	0.043	0.007	0.010	0.000000	0.000000	2150.97	1062.52
2	FID	ACIS-I-5	7.04	536	-0.170	0.058	0.006	0.012	0.000000	0.000000	-1815.14	1063.74
3	GUIDE	896402976	7.47	1072	0.002	0.093	0.072	0.109	265.099474	-28.923203	272.56	-481.89
4	GUIDE	896404376	6.67	1072	-0.049	0.127	0.056	0.098	264.835179	-29.530972	-2055.47	-245.72
5	GUIDE	896405480	8.24	1071	0.244	0.026	0.077	0.113	265.220460	-29.599691	-1985.18	-1475.06
6	GUIDE	896405616	7.84	1071	-0.104	-0.059	0.073	0.117	264.752771	-28.412560	1762.10	1050.60
7	GUIDE	896406568	8.22	1070	-0.105	-0.183	0.080	0.123	264.435951	-28.437282	1418.19	1997.32

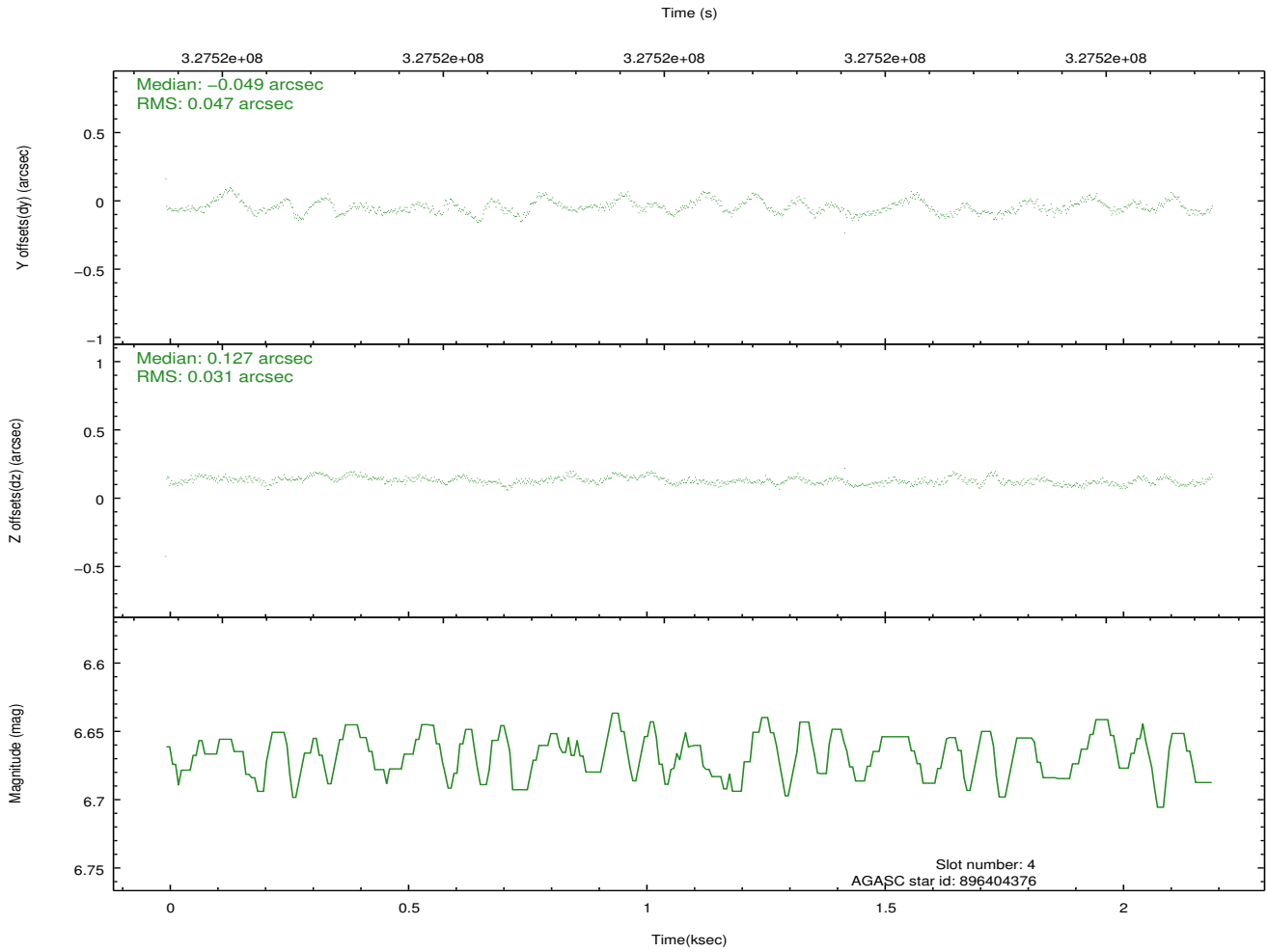
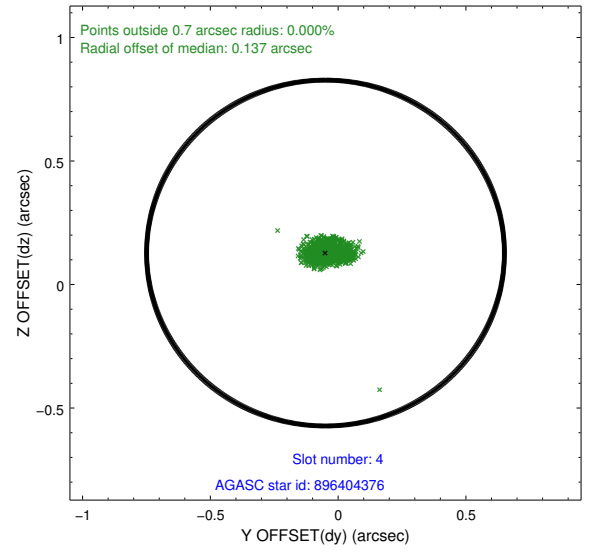
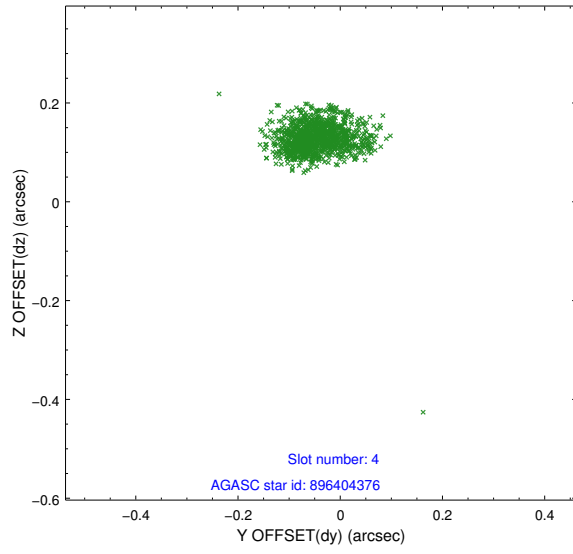


## 2.4 Star Slots

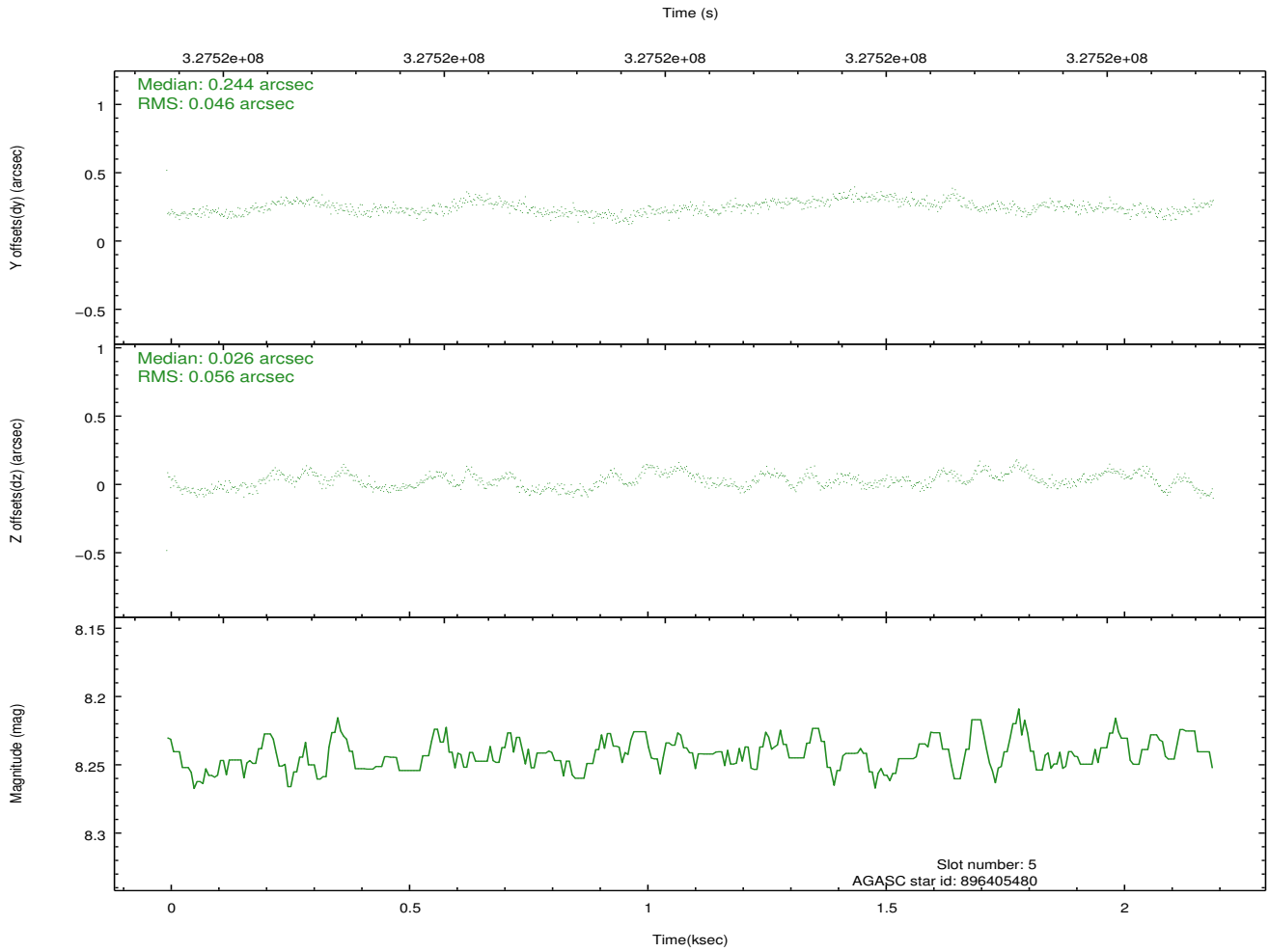
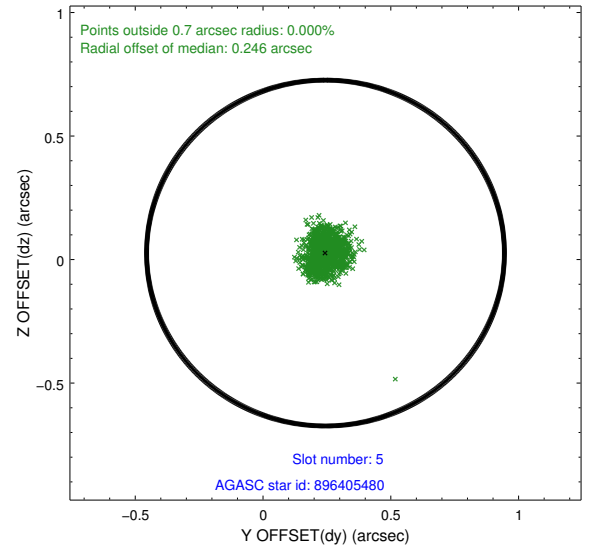
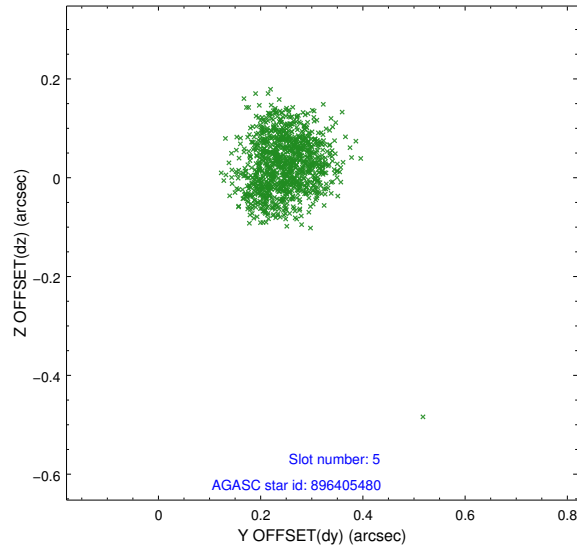
### 2.4.1 Slot 3



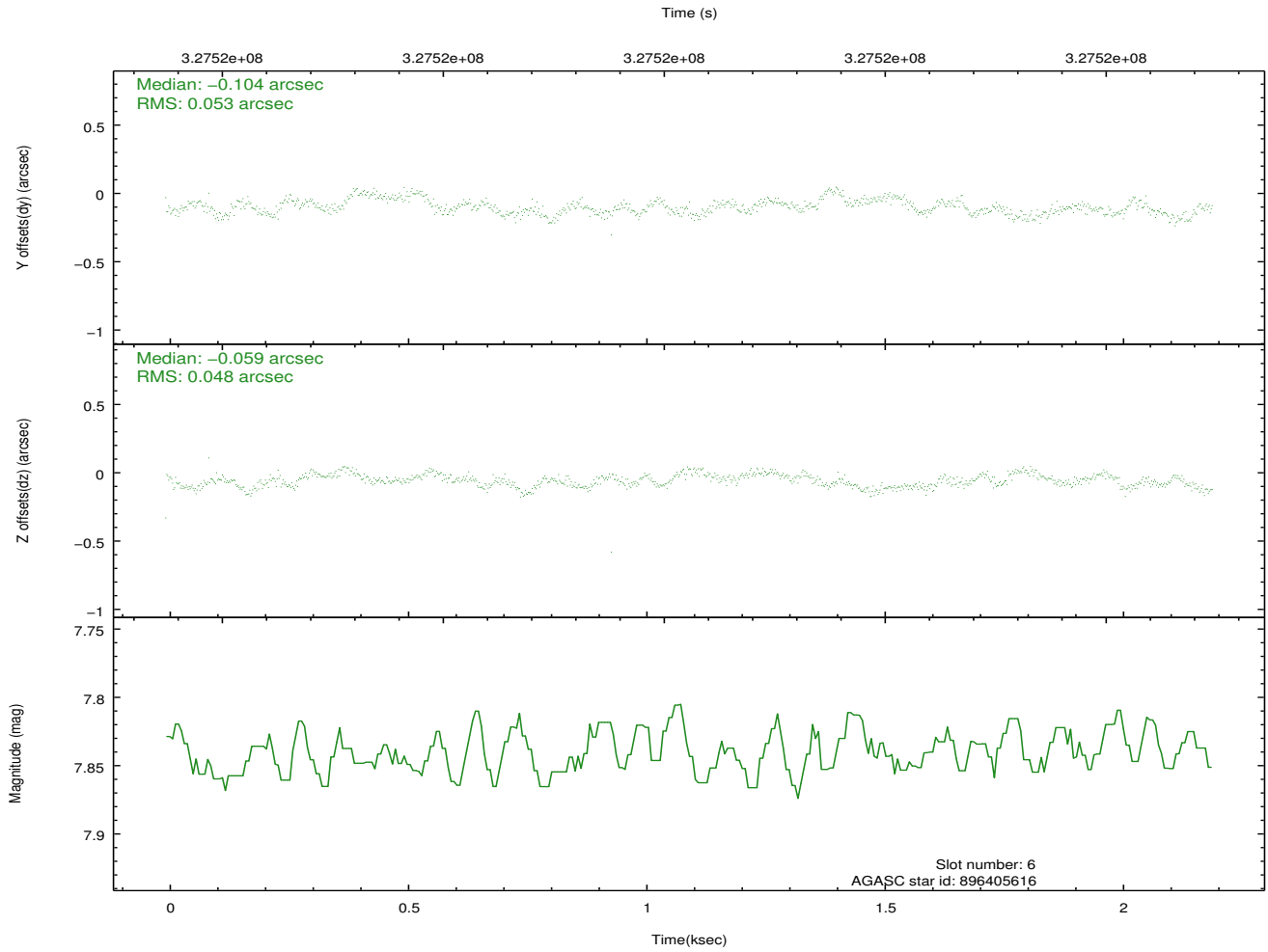
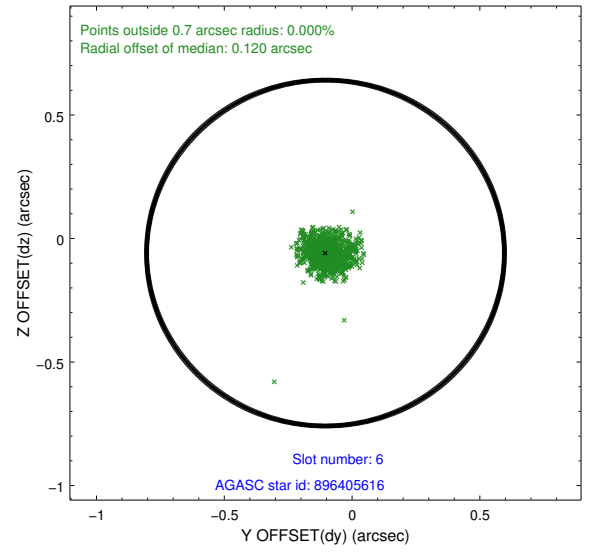
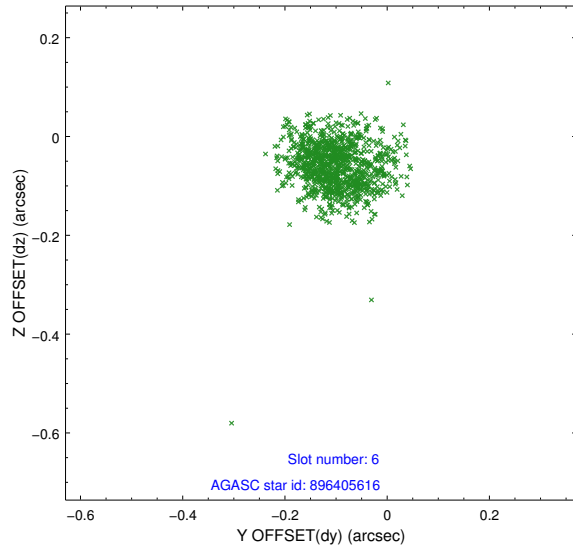
## 2.4.2 Slot 4



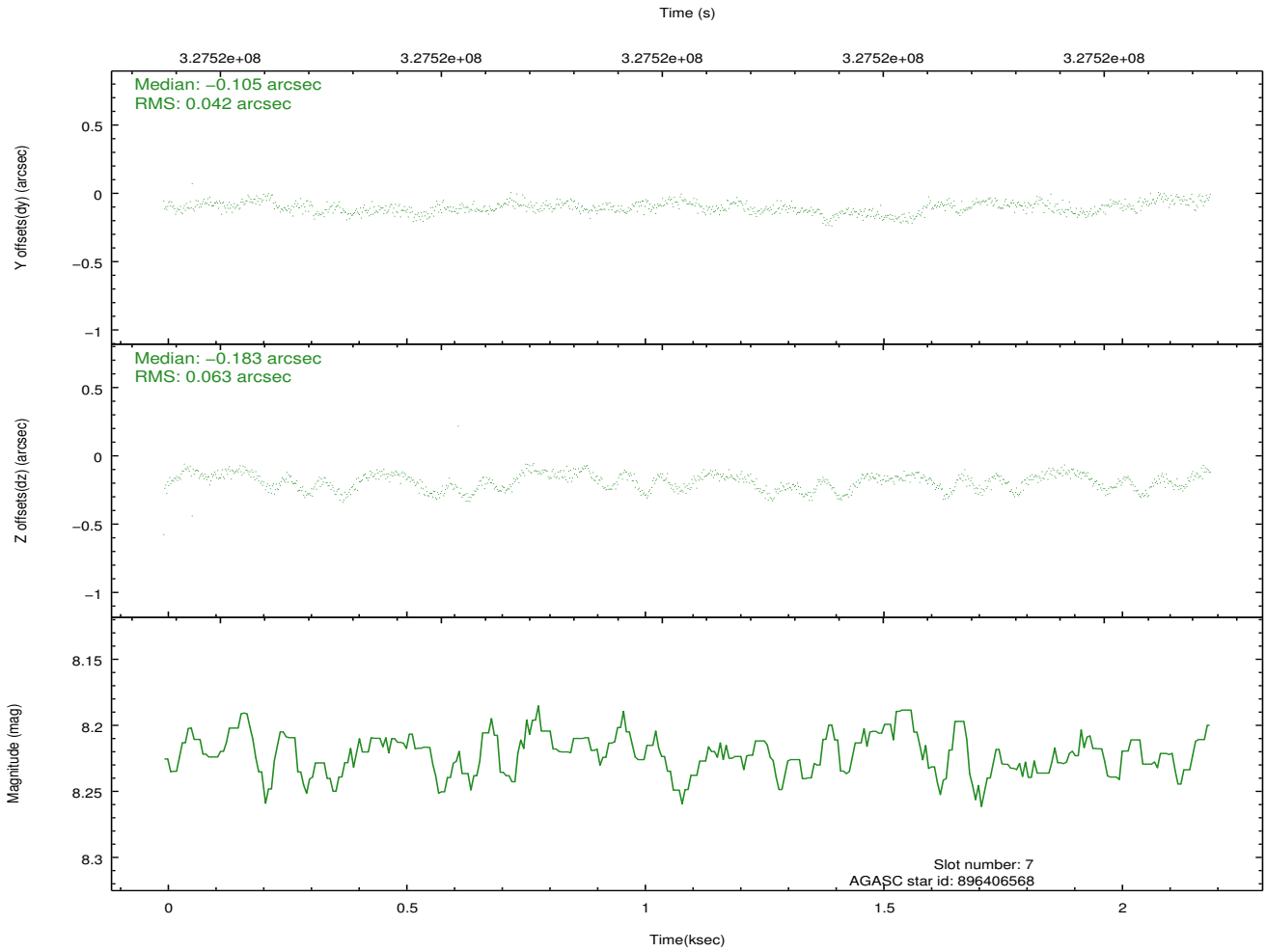
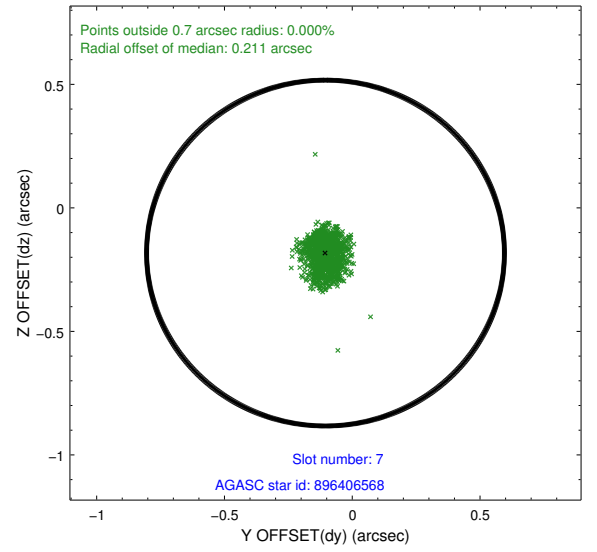
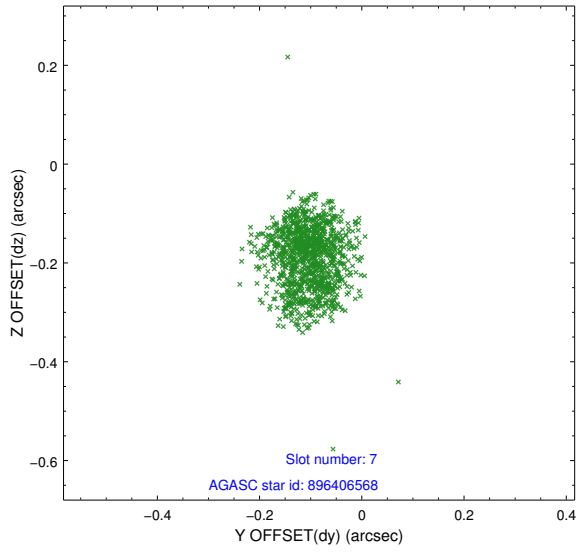
### 2.4.3 Slot 5



## 2.4.4 Slot 6

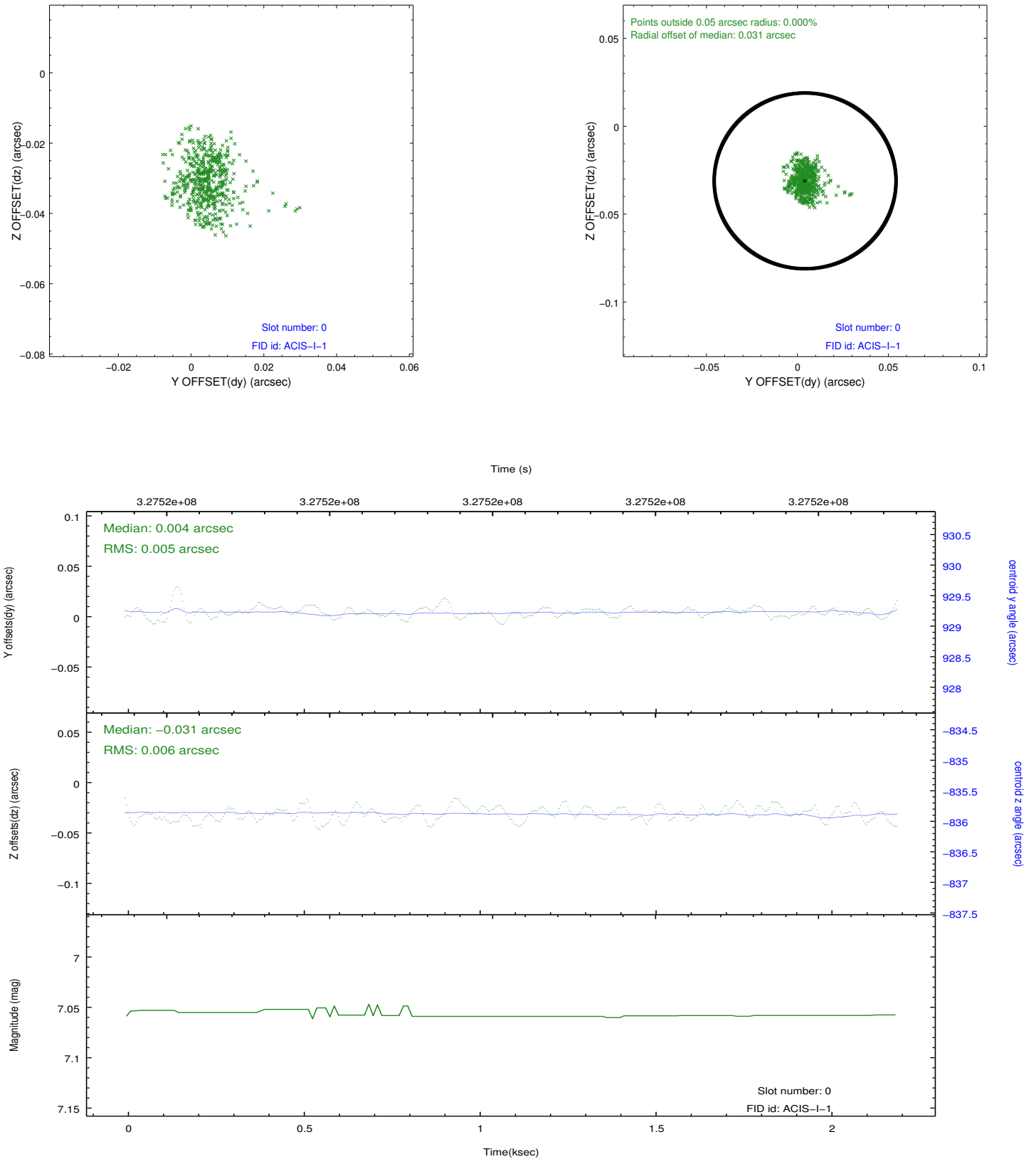


## 2.4.5 Slot 7

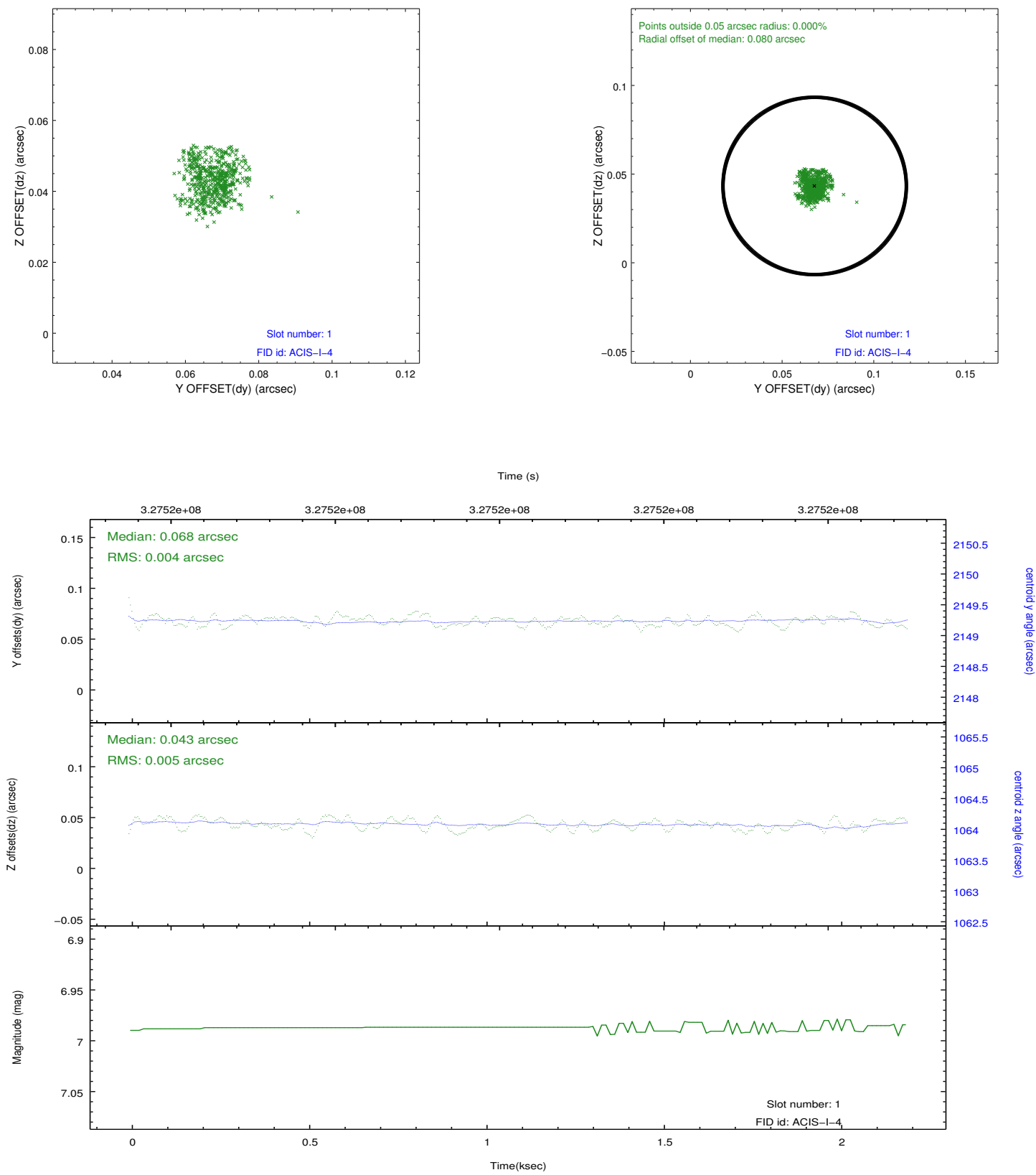


## 2.5 FID Slots

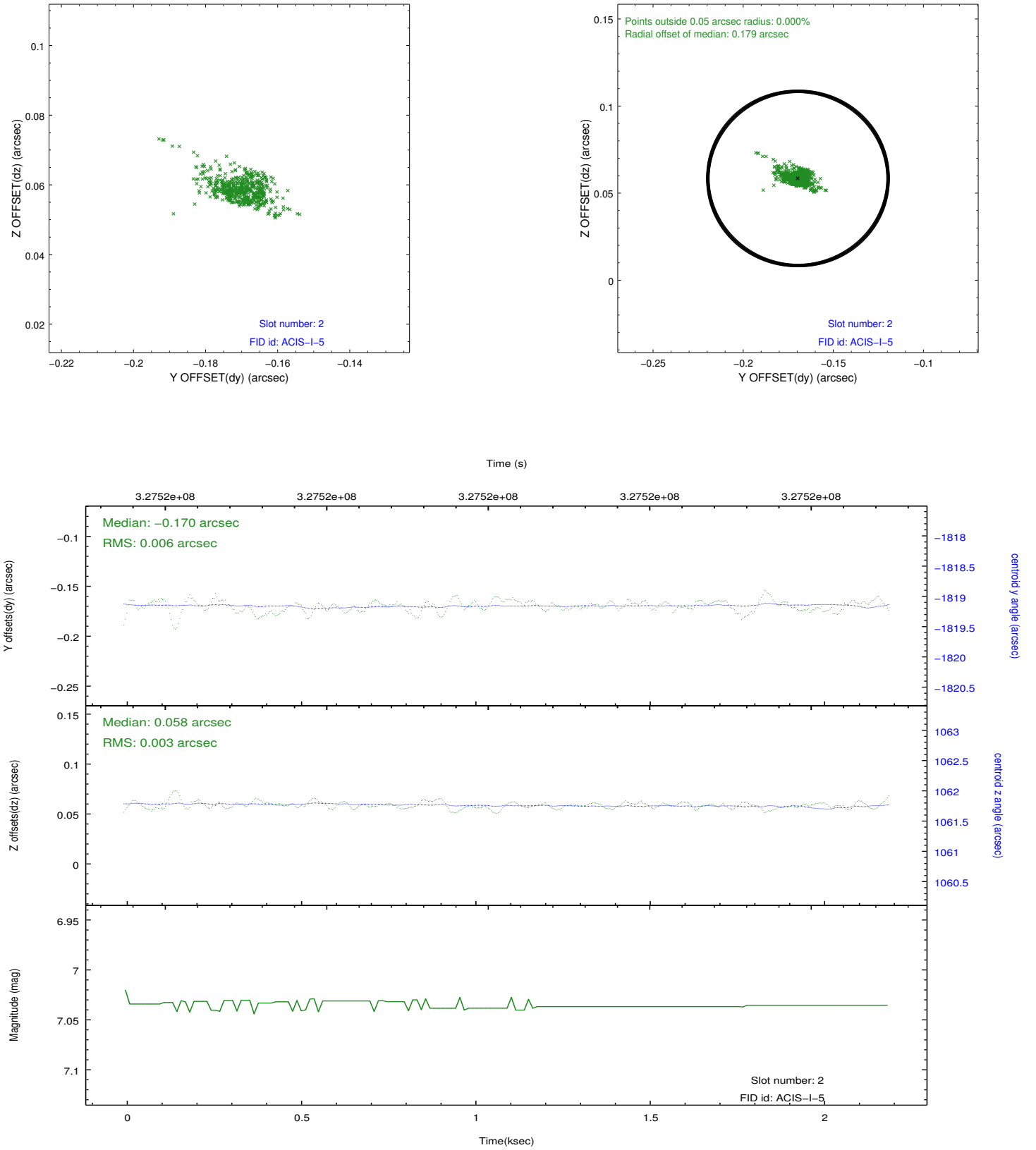
### 2.5.1 Slot 0



2.5.2 Slot 1



### 2.5.3 Slot 2





## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.05.21
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.19480001

### A.2 Comments