

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 8740 - L2 Version 2  
Chandra X-Ray Center

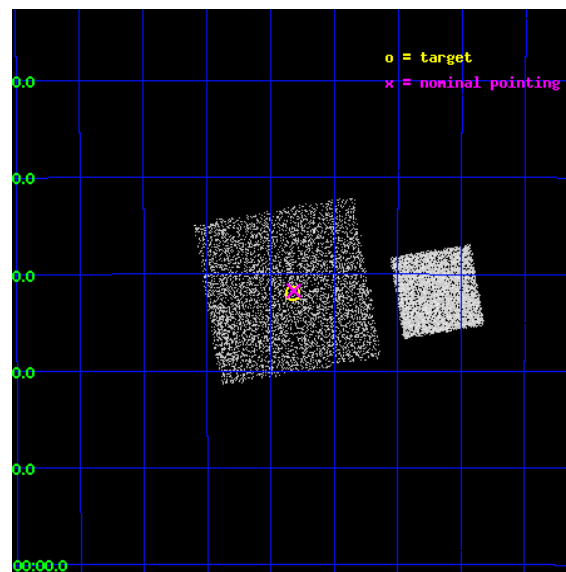
L2 Processing Date : May 14 2012

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# 1 Front

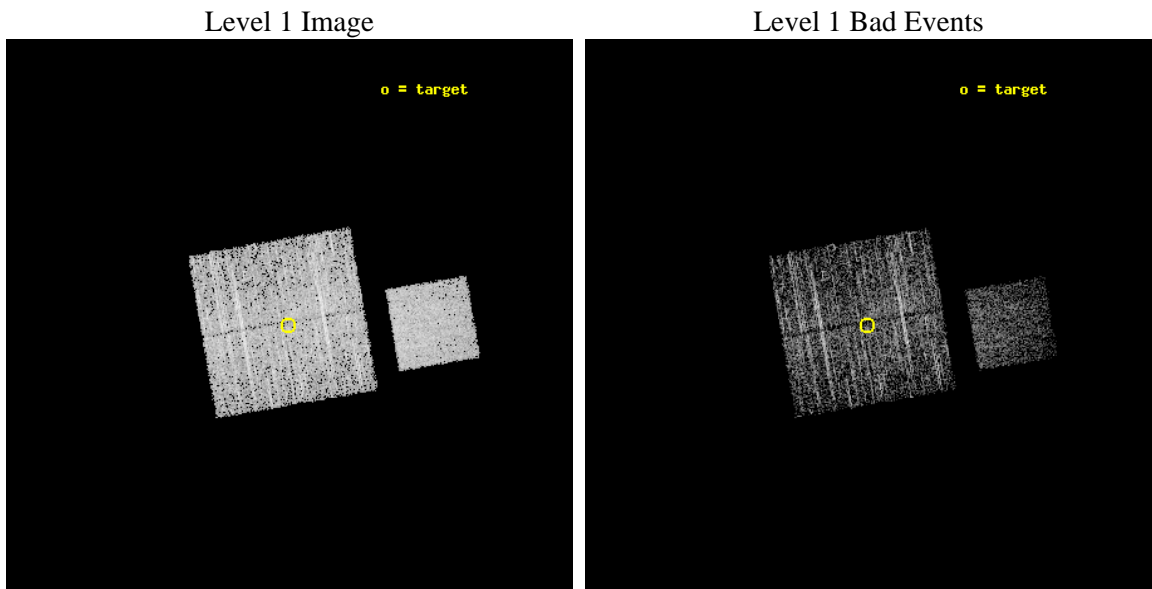
seq_num	400791	Sequence number
obs_id	8740	Observation id
title	The Galactic Bulge Survey: categorising the plethora of faint X-ray sources in the Galactic Bulge	Proposal title
observer	dr Peter Jonker	Principal investigator
object	GBS1	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	269.331409	Observer's specified target RA [deg]
dec_targ	-27.533386	Observer's specified target Dec [deg]
ra_nom	269.3295324637	Nominal RA [deg]
dec_nom	-27.528822855467	Nominal Dec [deg]
roll_nom	80.207823598921	Nominal Roll [deg]
revision	2	Processing version of data
ontime	2185.5000168085	Sum of GTIs [s]
livetime	2156.9448501472	Livetime [s]
ontime0	2182.3590265512	Sum of GTIs [s]
ontime1	2185.5000168085	Sum of GTIs [s]
ontime2	2182.3590164781	Sum of GTIs [s]
ontime3	2185.5000168085	Sum of GTIs [s]
ontime7	2185.5000168085	Sum of GTIs [s]
l2events	15228	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	2000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	2185.5000168085	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime0	2182.3590265512	Sum of GTIs [s]
date	2012-05-14T23:26:55	Date and time of file creation	ontime1	2185.5000168085	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	2182.3590164781	Sum of GTIs [s]
			ontime3	2185.5000168085	Sum of GTIs [s]
			ontime7	2185.5000168085	Sum of GTIs [s]
			l1events	101365	Number of level 1 events

### 2.1.4 Events

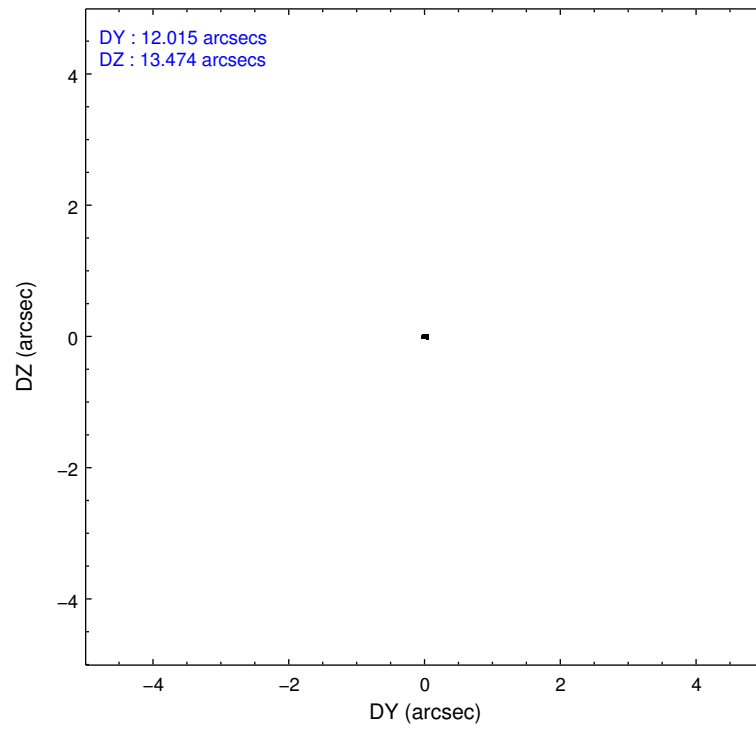
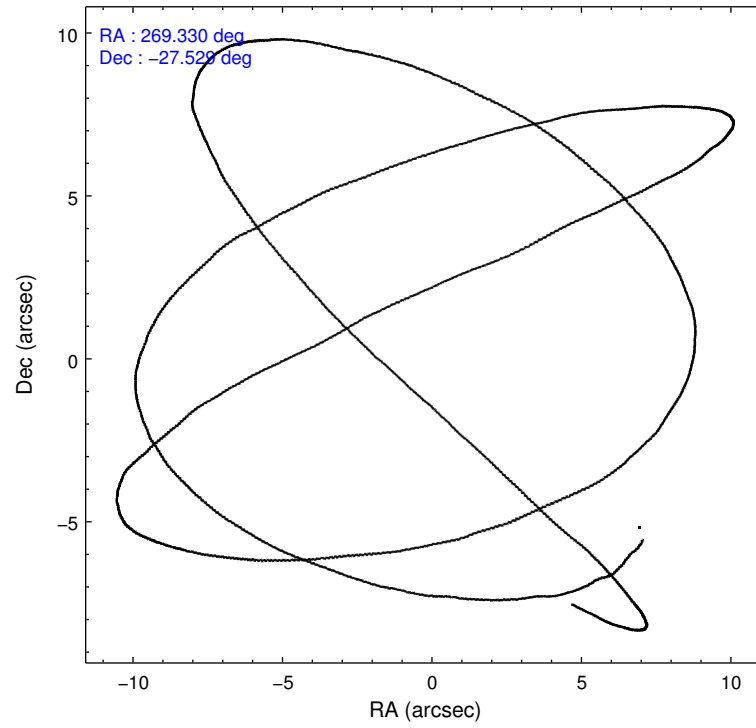
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	19708	19125	21081	19379	22072
rejected events	17776	16938	19158	17528	13177
rejected %	90%	88%	90%	90%	59%

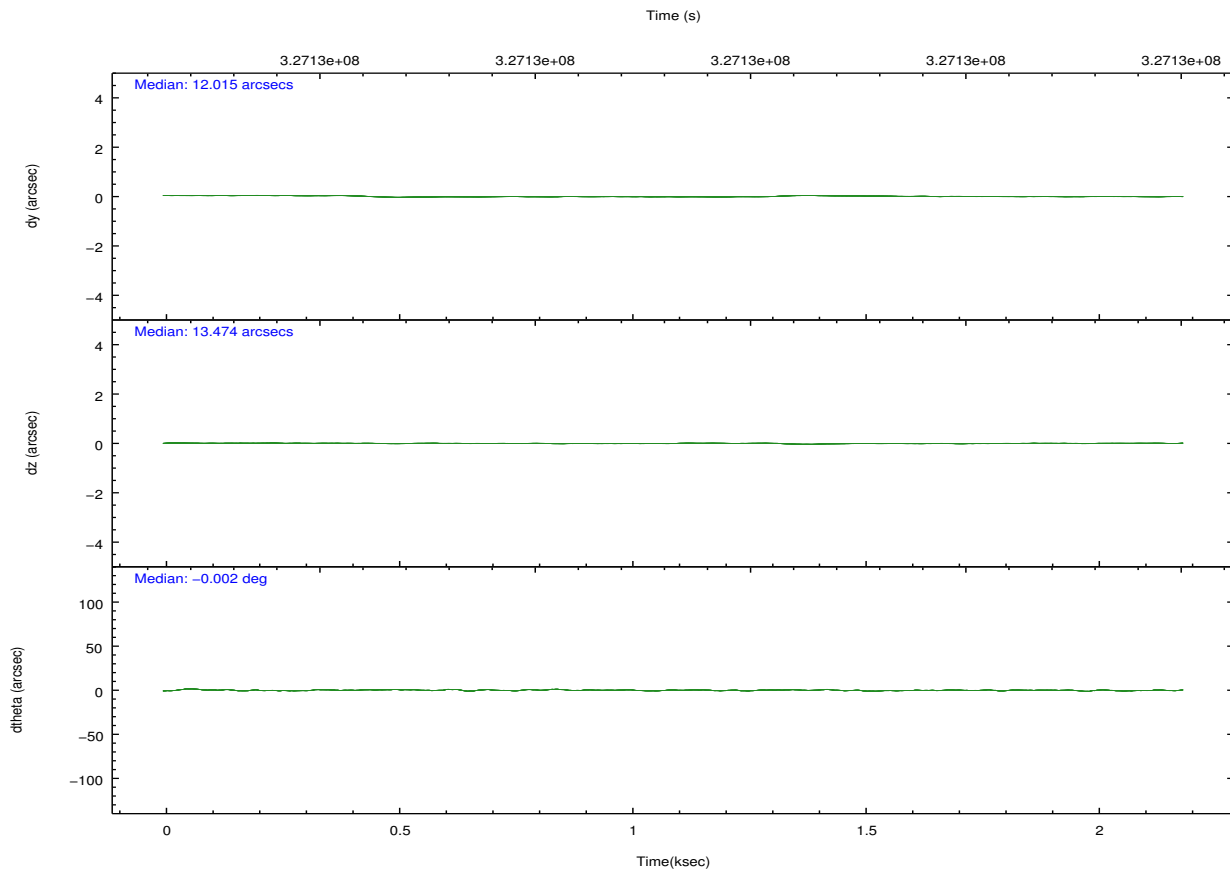
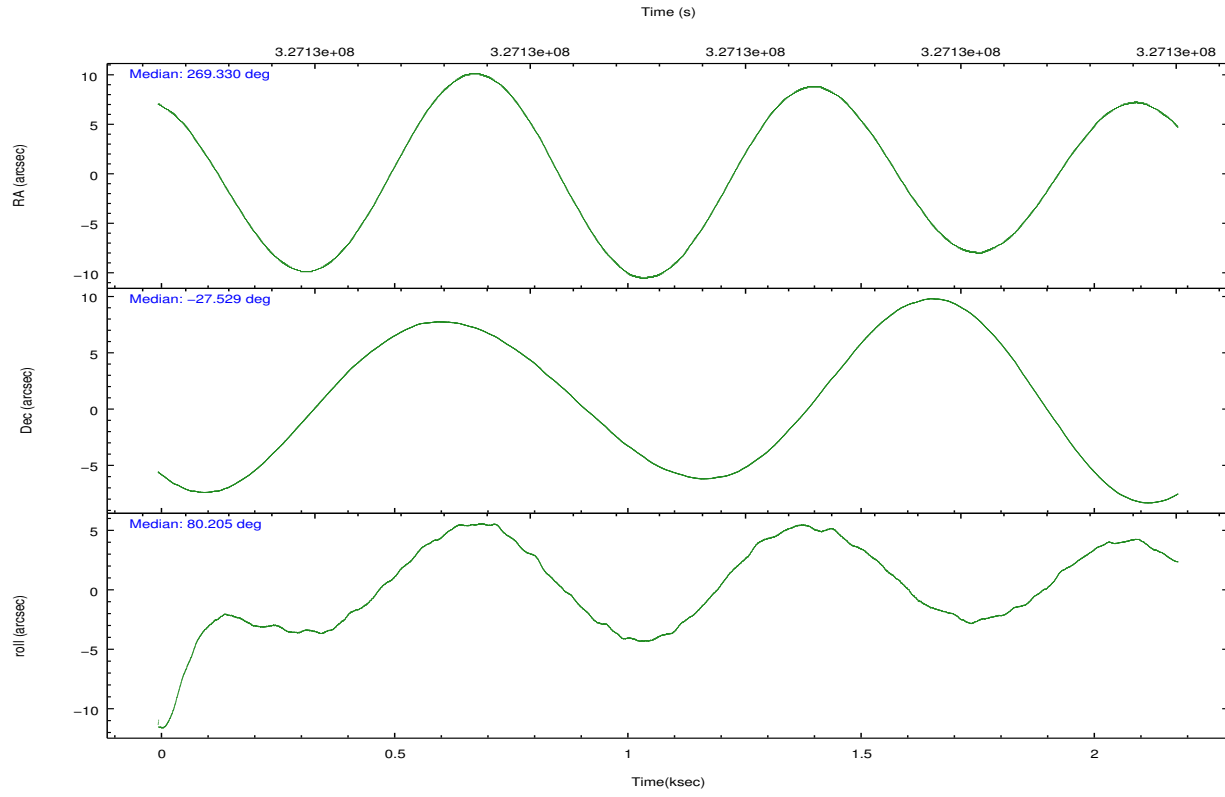
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
grade 0 events	871	1023	889	826	917
	4%	5%	4%	4%	4%
grade 1 events	13	12	14	15	22
	0%	0%	0%	0%	0%
grade 2 events	510	532	471	504	2074
	2%	2%	2%	2%	9%
grade 3 events	238	263	231	222	992
	1%	1%	1%	1%	4%
grade 4 events	222	248	221	211	910
	1%	1%	1%	1%	4%
grade 5 events	721	788	628	781	2336
	3%	4%	2%	4%	10%
grade 6 events	396	440	379	352	5355
	2%	2%	1%	1%	24%
grade 7 events	16737	15819	18248	16468	9466
	84%	82%	86%	84%	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	269.340395	269.329532463703	CCD I2 on	Y	Y
[deg] Pointing Dec	-27.554422	-27.52882285546661	CCD I3 on	Y	Y
[deg] Pointing Roll	80.004158	80.20782359892098	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)	327131412.184000	327131035.96652	CCD S5 on	N	N
Observation start date	2008-05-14T05:49:07	2008-05-14T05:43:55	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	327133412.184000	327133545.67914	On-chip summing requested	N	N
Observation end date	2008-05-14T06:22:27	2008-05-14T06:25:45	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect





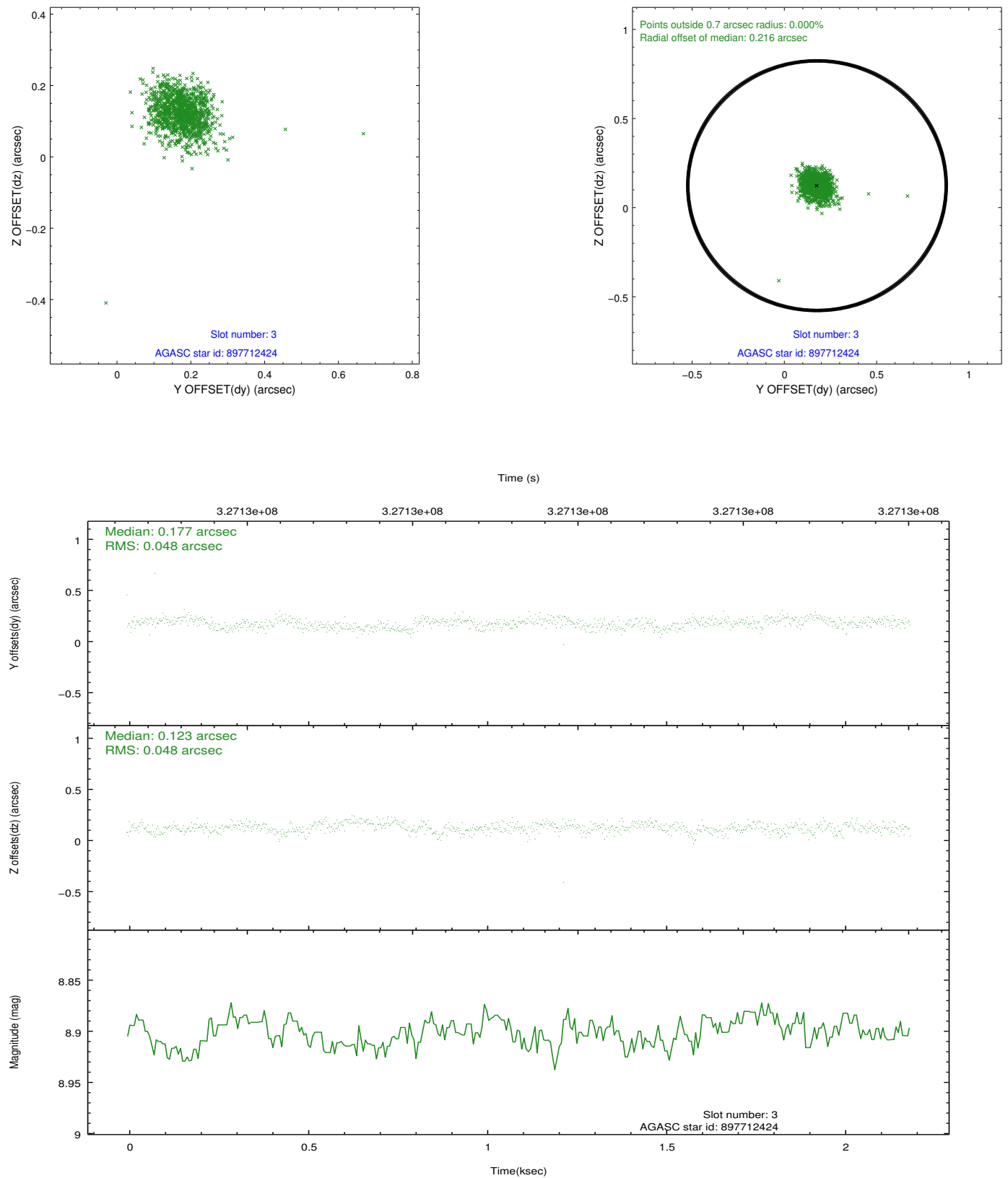
### Slot Statistics

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	534	-0.030	0.043	0.007	0.011	0.000000	0.000000	927.49	-836.99
1	FID	ACIS-I-4	7.00	534	0.132	0.009	0.007	0.012	0.000000	0.000000	2149.35	1061.28
2	FID	ACIS-I-5	7.05	534	-0.200	0.019	0.006	0.012	0.000000	0.000000	-1816.85	1062.54
3	GUIDE	897712424	8.90	1067	0.177	0.123	0.068	0.108	269.567786	-28.090711	-1775.61	-1046.33
4	GUIDE	897716896	7.36	1067	-0.278	0.183	0.073	0.122	269.902616	-27.069631	2026.57	-1473.32
5	GUIDE	897717560	8.29	1068	-0.134	-0.223	0.062	0.101	268.905529	-26.931201	1967.27	1762.35
6	GUIDE	897721048	7.75	1068	0.054	-0.173	0.043	0.069	268.989561	-28.030814	-1881.39	801.50
7	GUIDE	898236888	8.67	1067	0.190	0.096	0.085	0.144	269.539947	-28.141730	-1973.48	-990.11

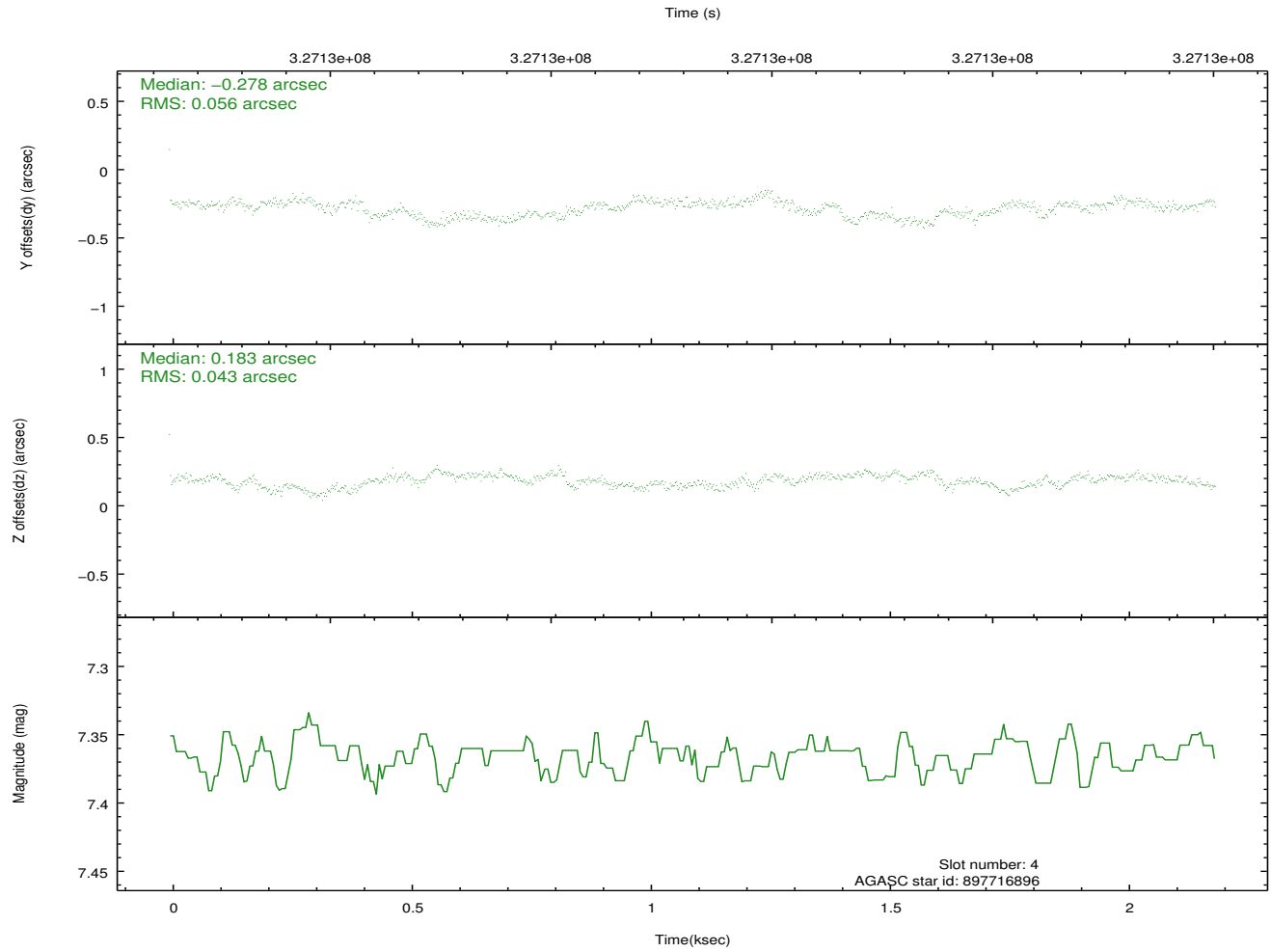
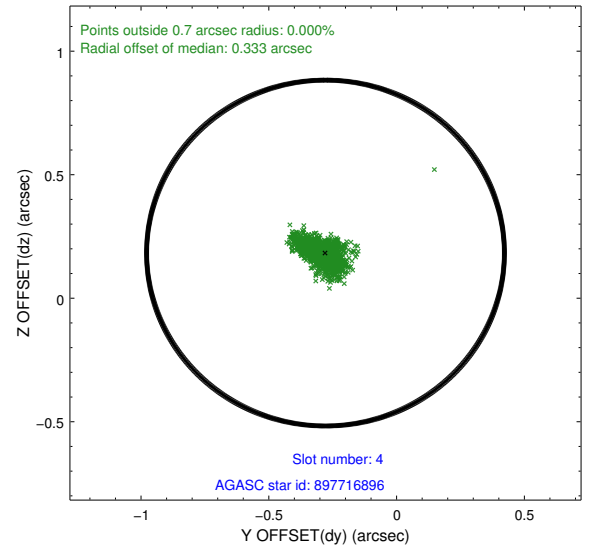
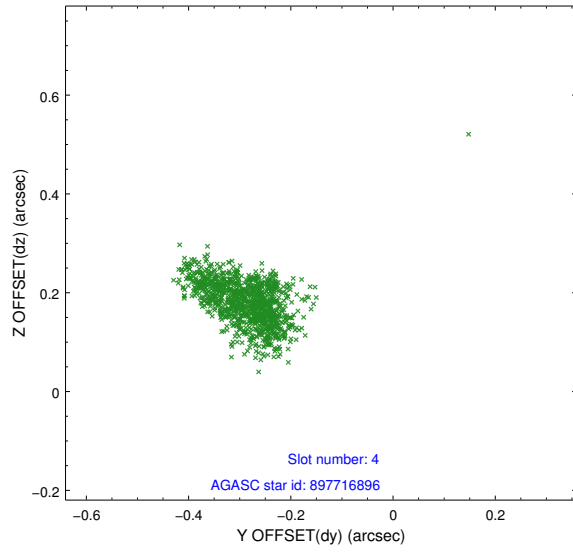


## 2.4 Star Slots

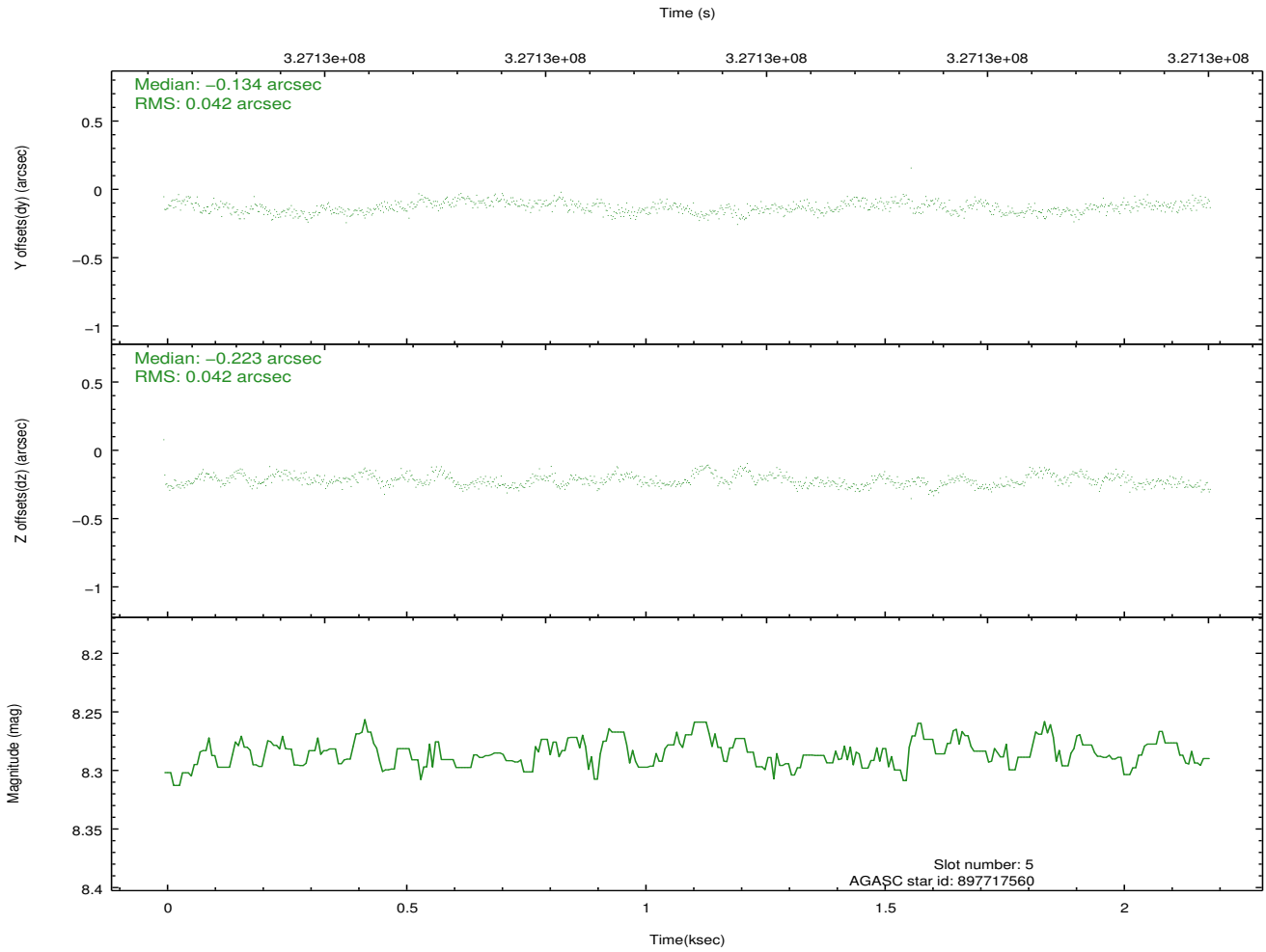
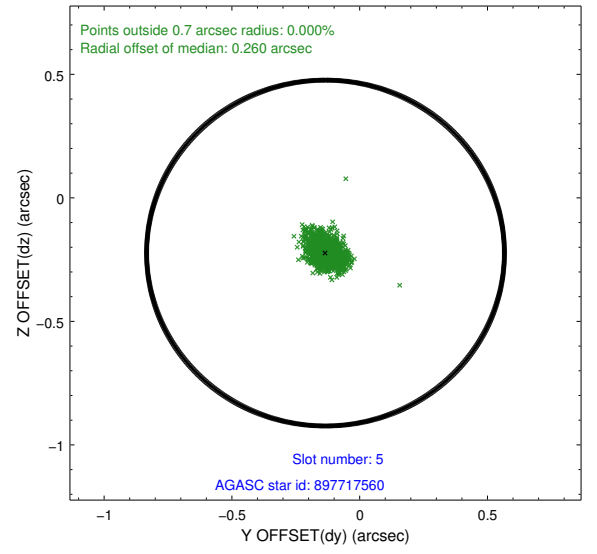
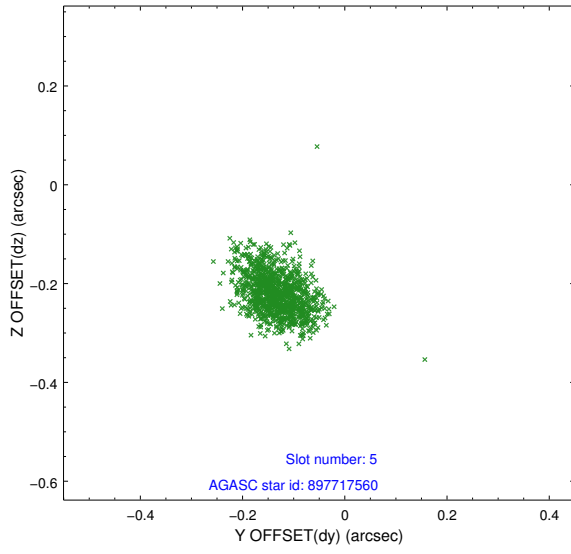
### 2.4.1 Slot 3



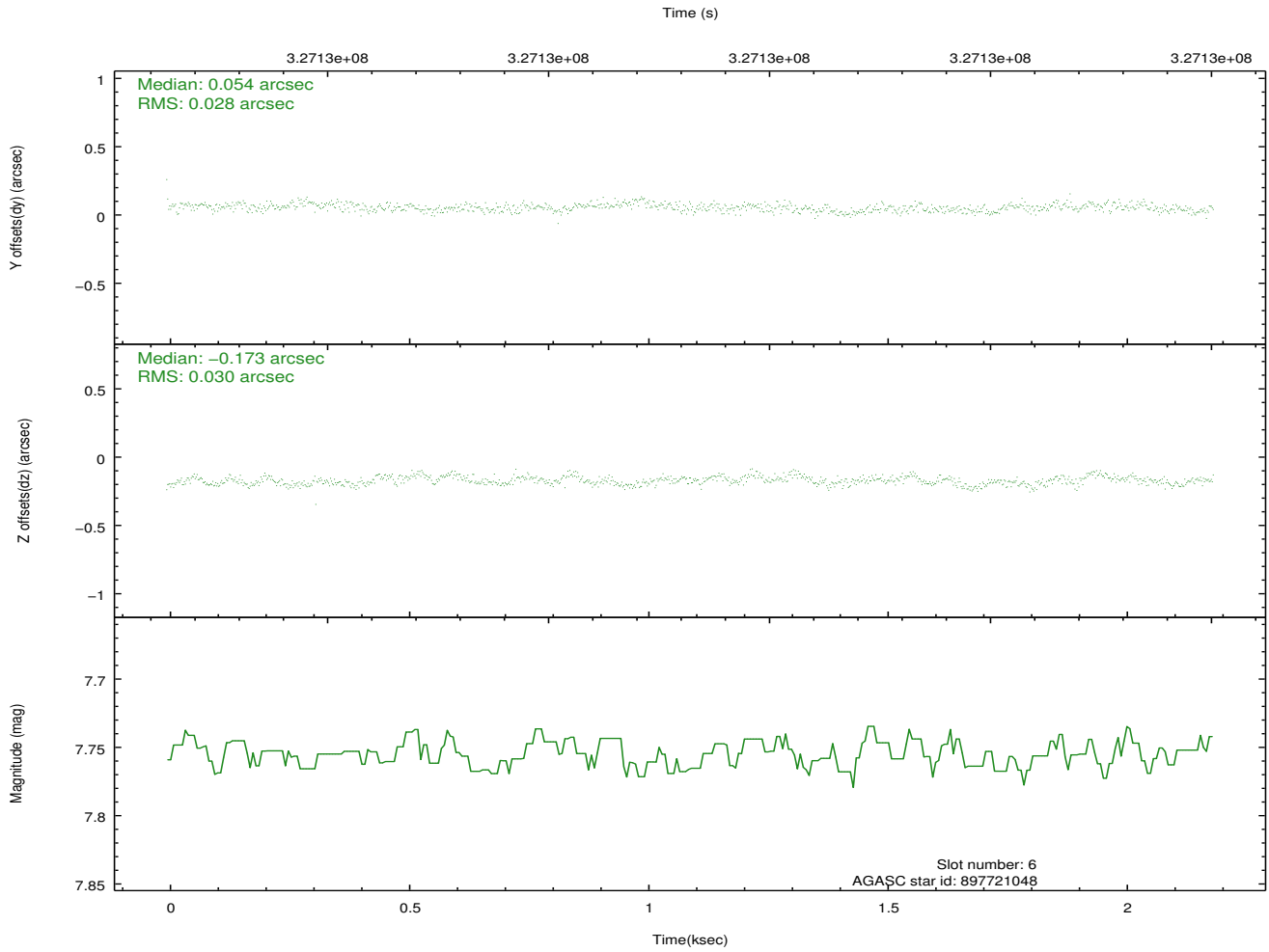
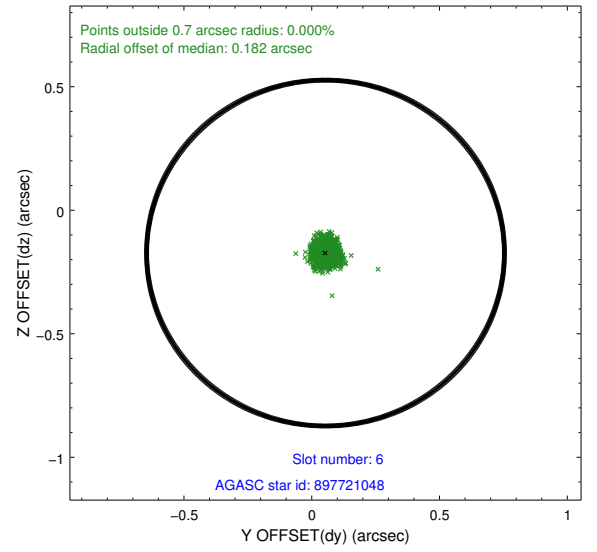
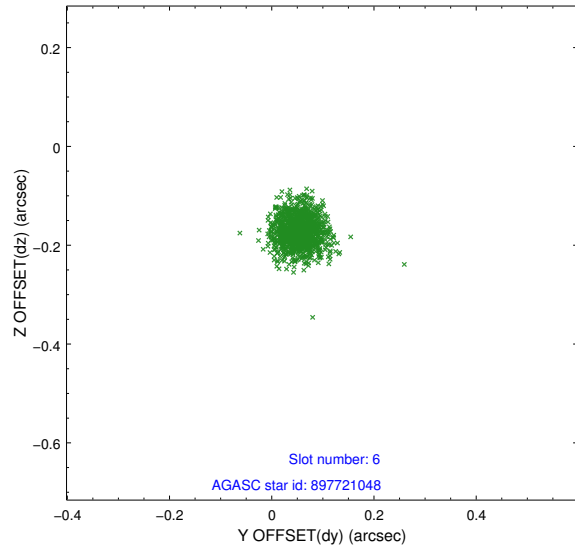
## 2.4.2 Slot 4



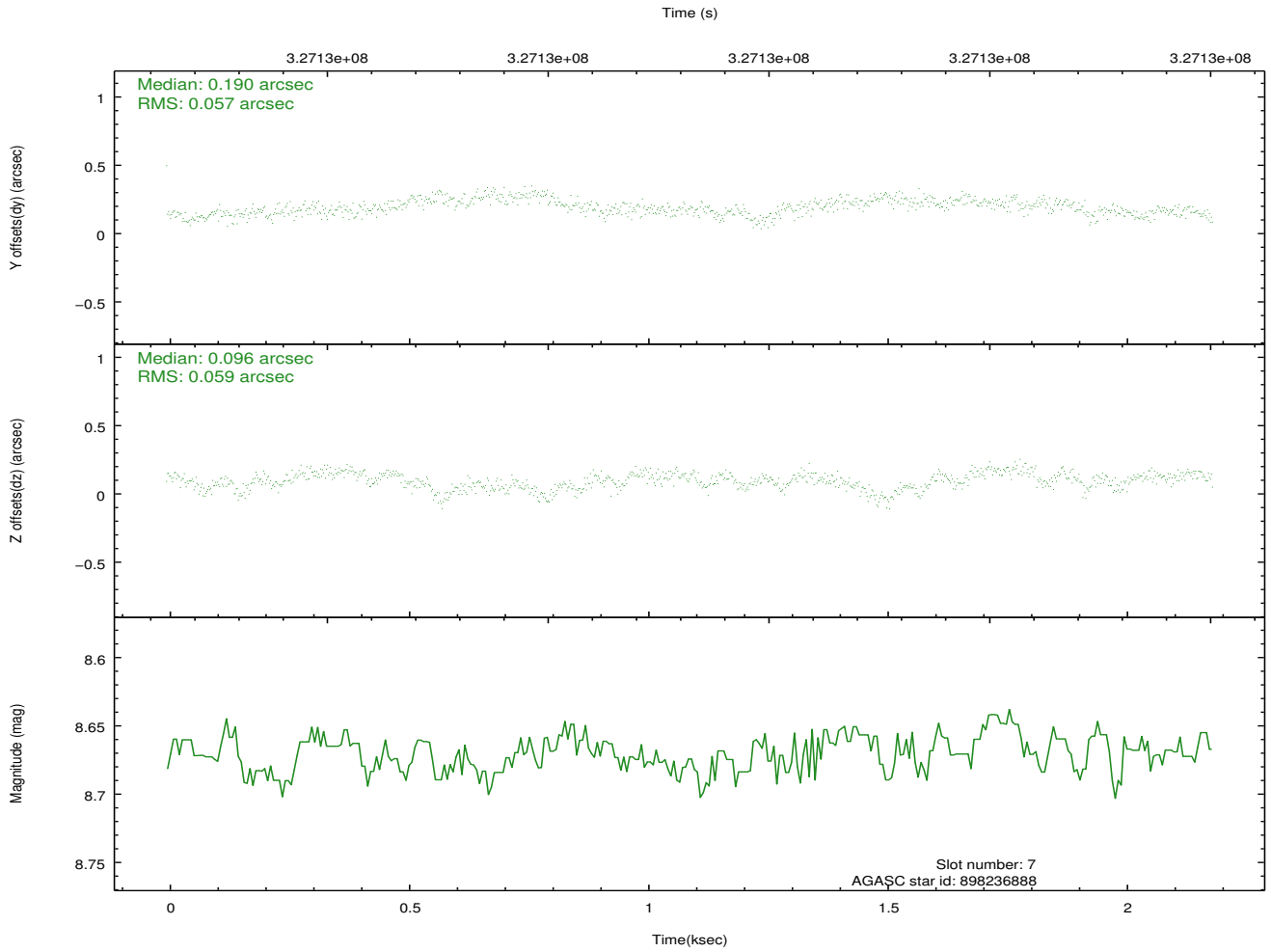
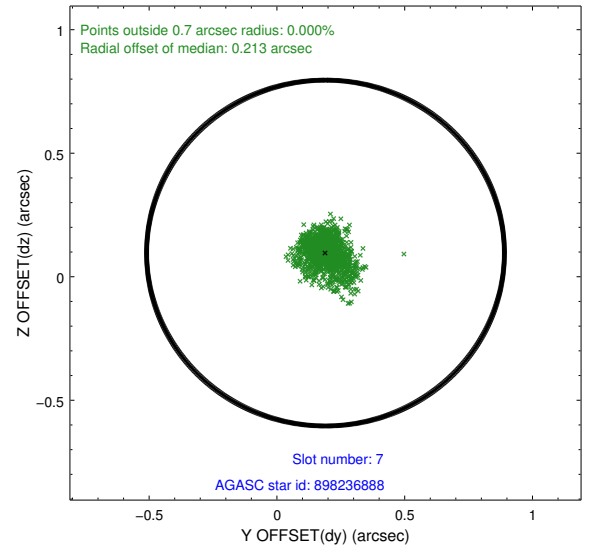
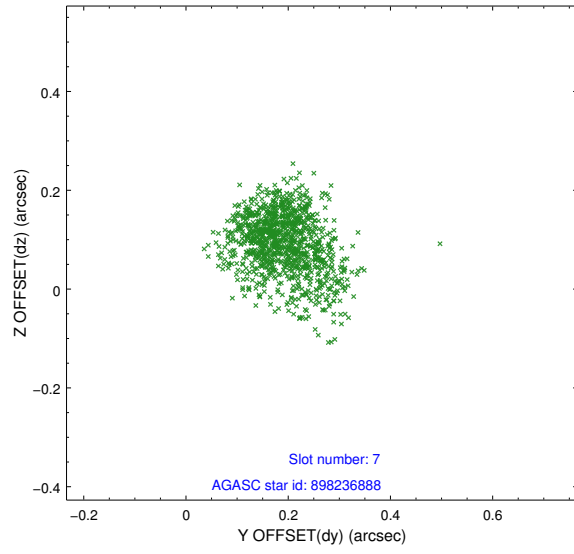
### 2.4.3 Slot 5



## 2.4.4 Slot 6

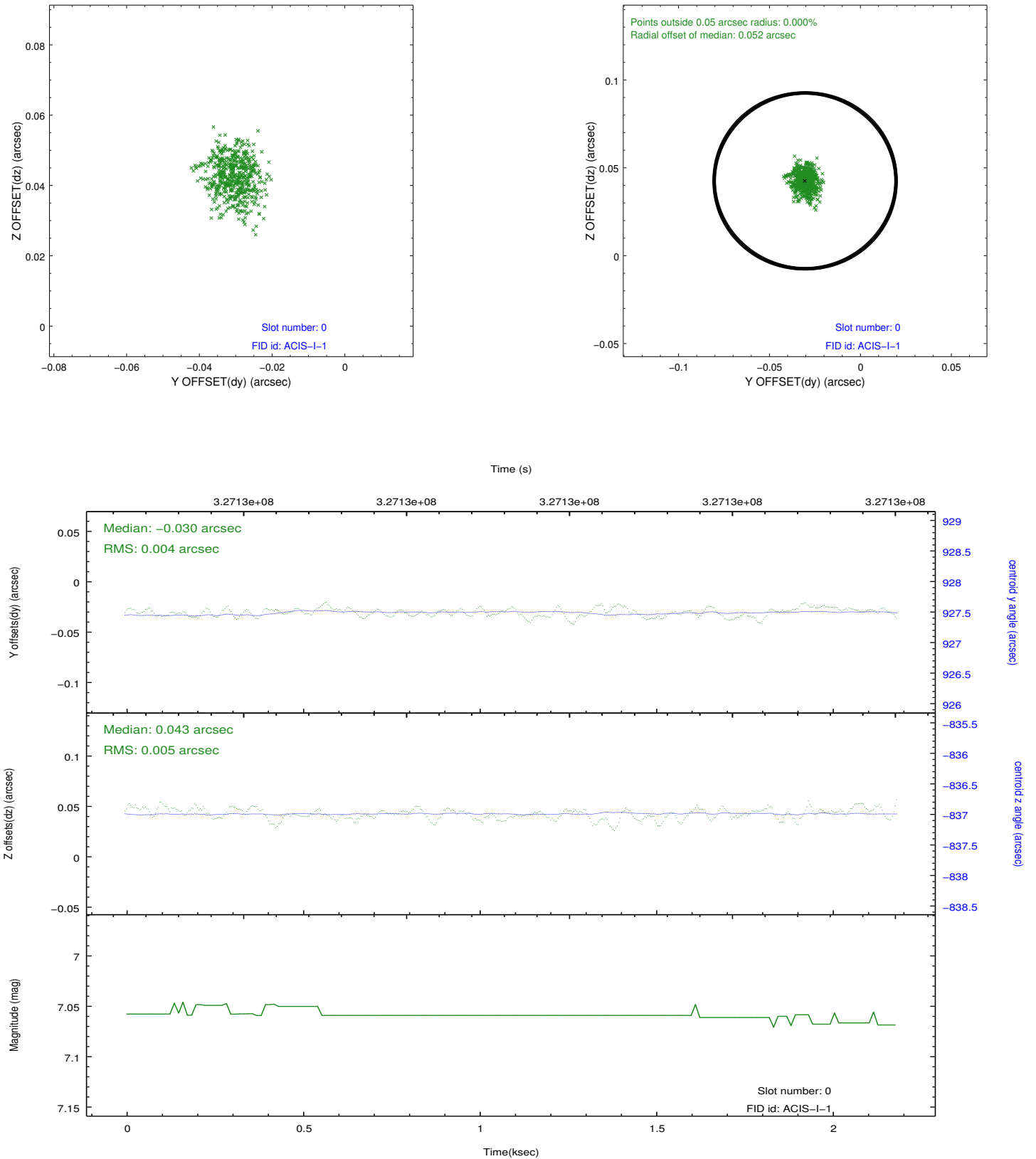


## 2.4.5 Slot 7

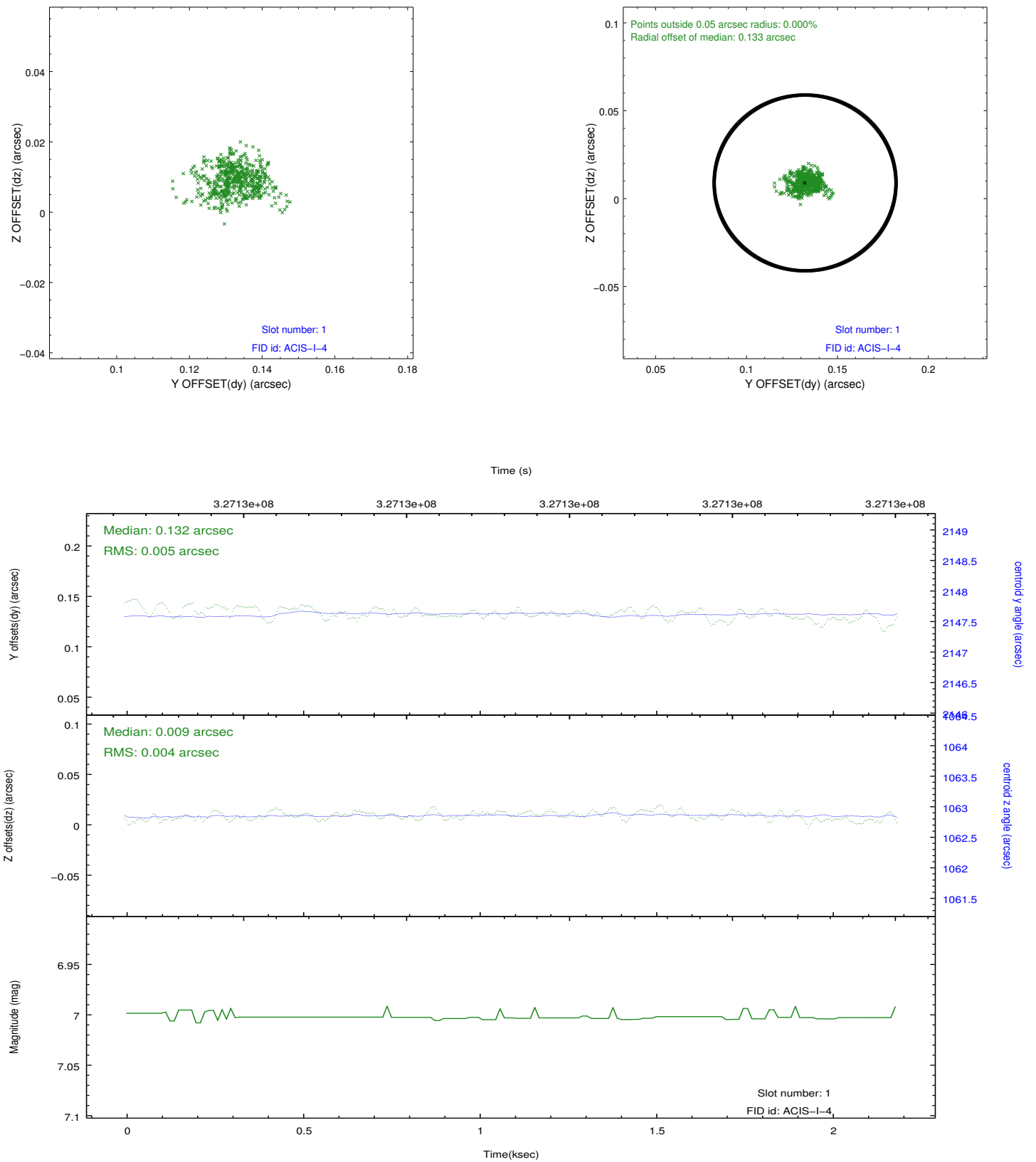


## 2.5 FID Slots

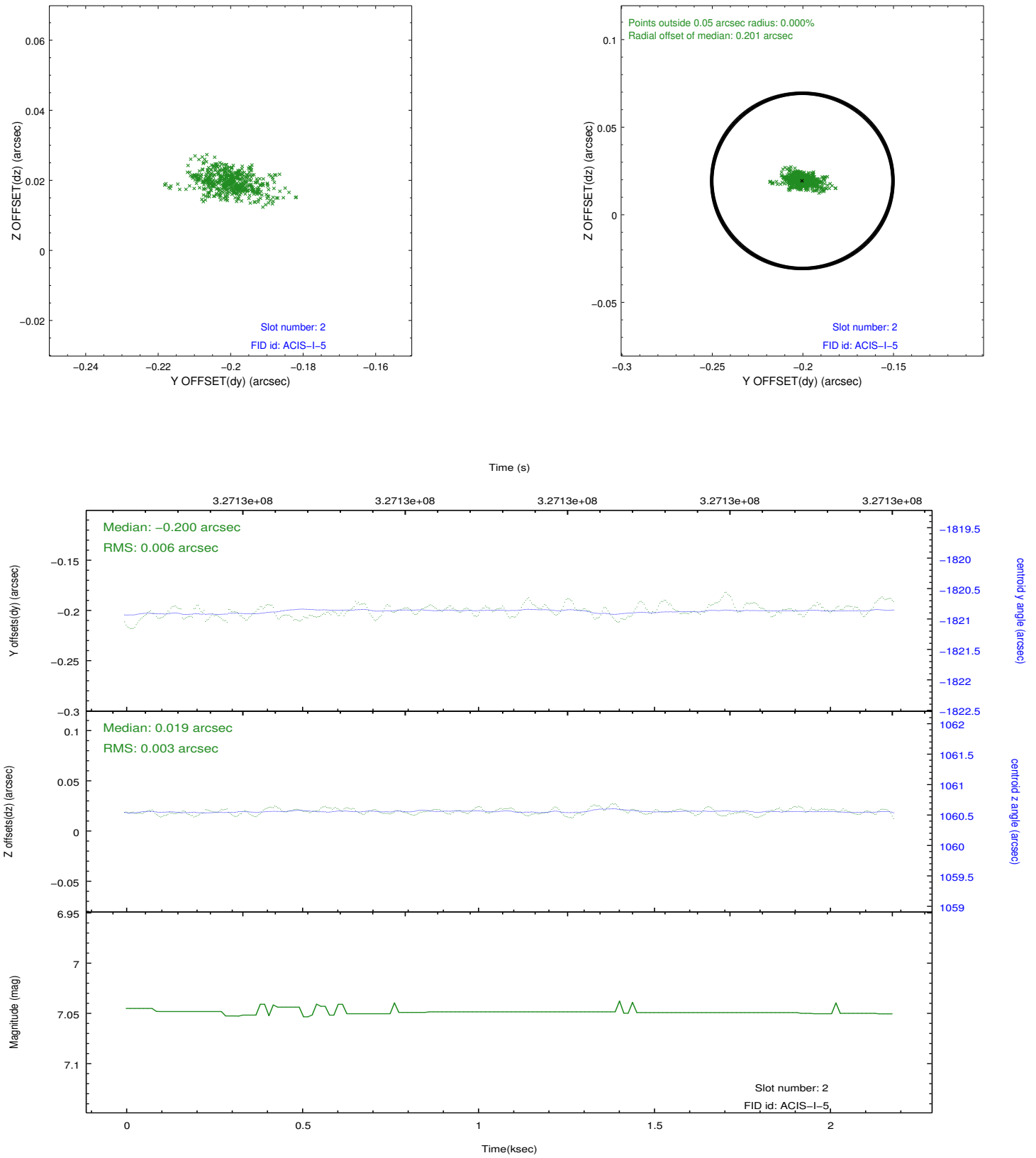
### 2.5.1 Slot 0



## 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)	2012.05.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.18550001

### A.2 Comments

Joint proposal with NOAO.