

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 8648 - L2 Version 2  
Chandra X-Ray Center

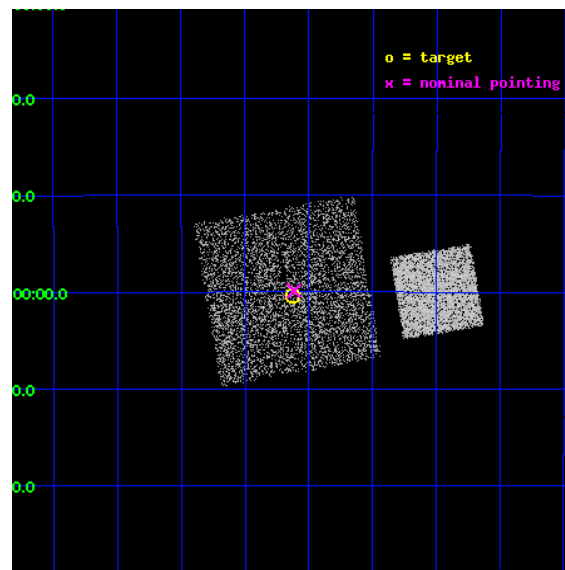
L2 Processing Date : May 14 2012

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# 1 Front

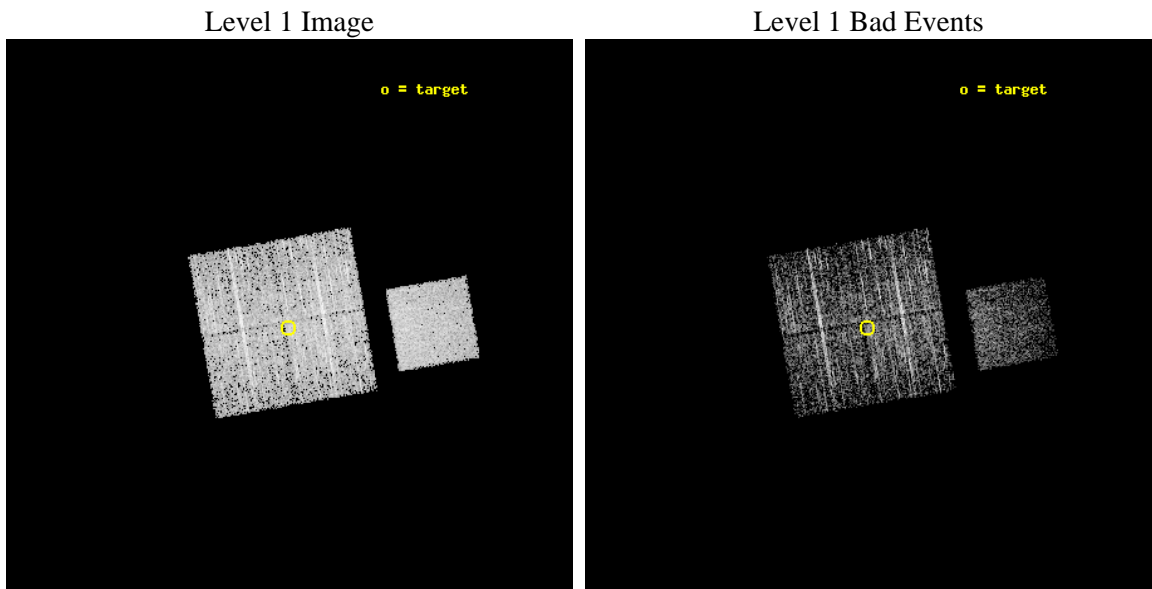
seq_num	400699	Sequence number
obs_id	8648	Observation id
title	The Galactic Bulge Survey: categorising the plethora of faint X-ray sources in the Galactic Bulge	Proposal title
observer	Prof Mariano Mendez	Principal investigator
object	GBSGTO1	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	266.280601	Observer's specified target RA [deg]
dec_targ	-27.006233	Observer's specified target Dec [deg]
ra_nom	266.27931723677	Nominal RA [deg]
dec_nom	-26.998020094147	Nominal Dec [deg]
roll_nom	80.20812682553	Nominal Roll [deg]
revision	2	Processing version of data
ontime	2188.6000168324	Sum of GTIs [s]
livetime	2160.0043463885	Livetime [s]
ontime0	2188.6000168324	Sum of GTIs [s]
ontime1	2188.6000168324	Sum of GTIs [s]
ontime2	2188.6000168324	Sum of GTIs [s]
ontime3	2188.6000168324	Sum of GTIs [s]
ontime7	2188.6000168324	Sum of GTIs [s]
l2events	15584	Number of level 2 events



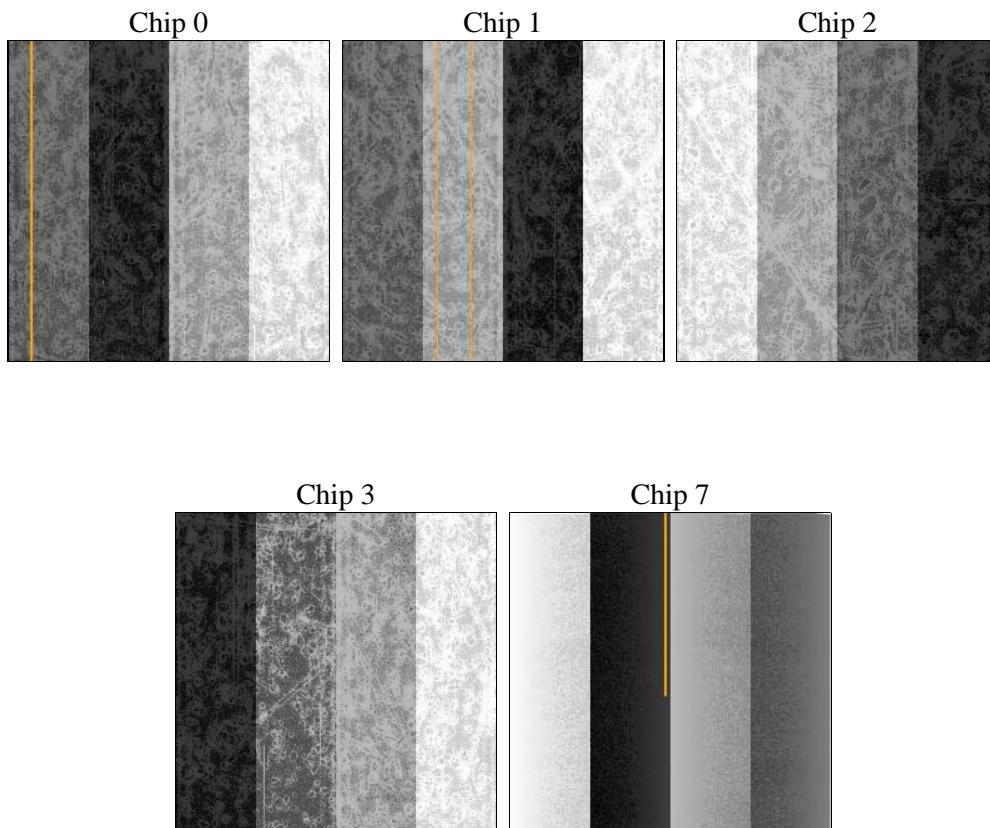
## 2 OBI

### 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	2188.6000168324	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime0	2188.6000168324	Sum of GTIs [s]
date	2012-05-14T23:37:53	Date and time of file creation	ontime1	2188.6000168324	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	2188.6000168324	Sum of GTIs [s]
			ontime3	2188.6000168324	Sum of GTIs [s]
			ontime7	2188.6000168324	Sum of GTIs [s]
			l1events	102432	Number of level 1 events

### 2.1.4 Events

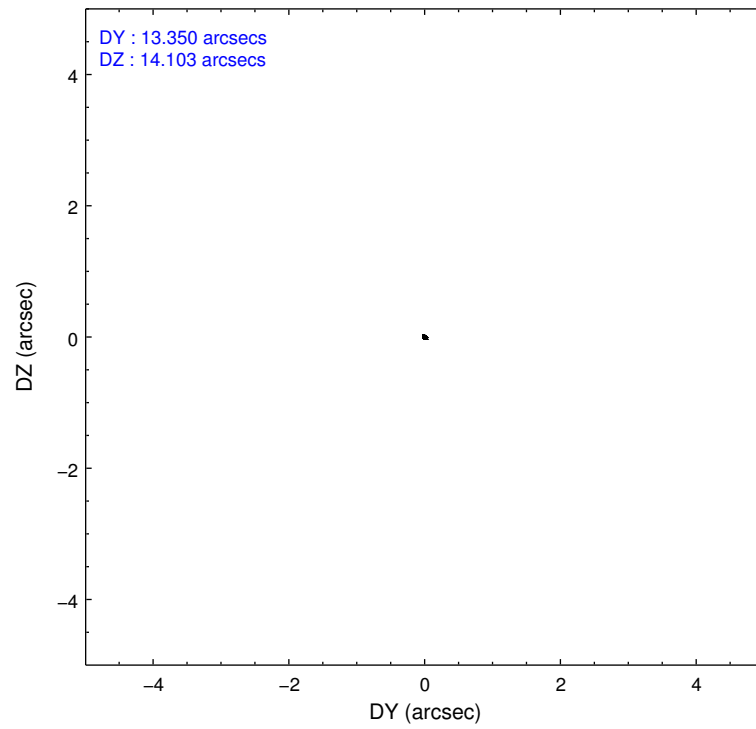
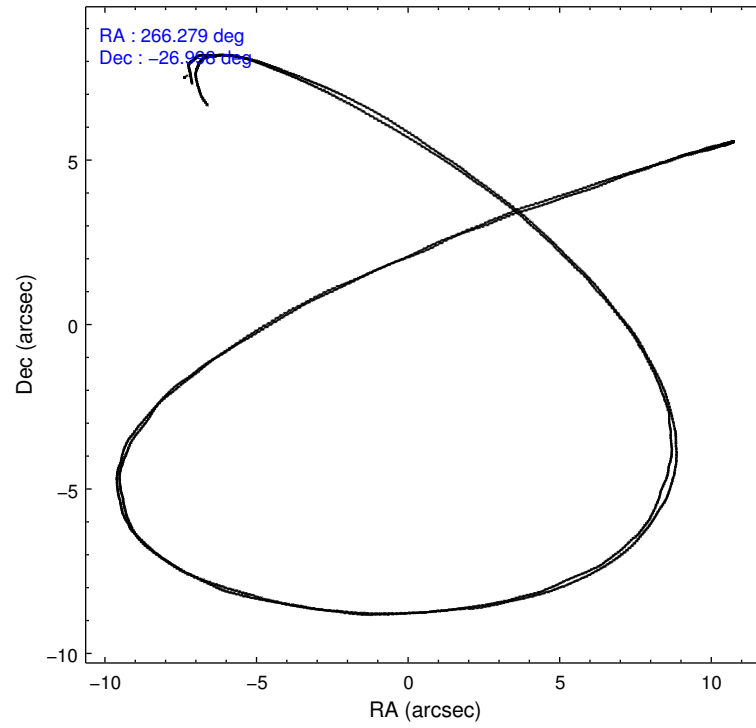
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	19084	17678	21666	21373	22631
rejected events	17093	15408	19711	19381	13650
rejected %	89%	87%	90%	90%	60%

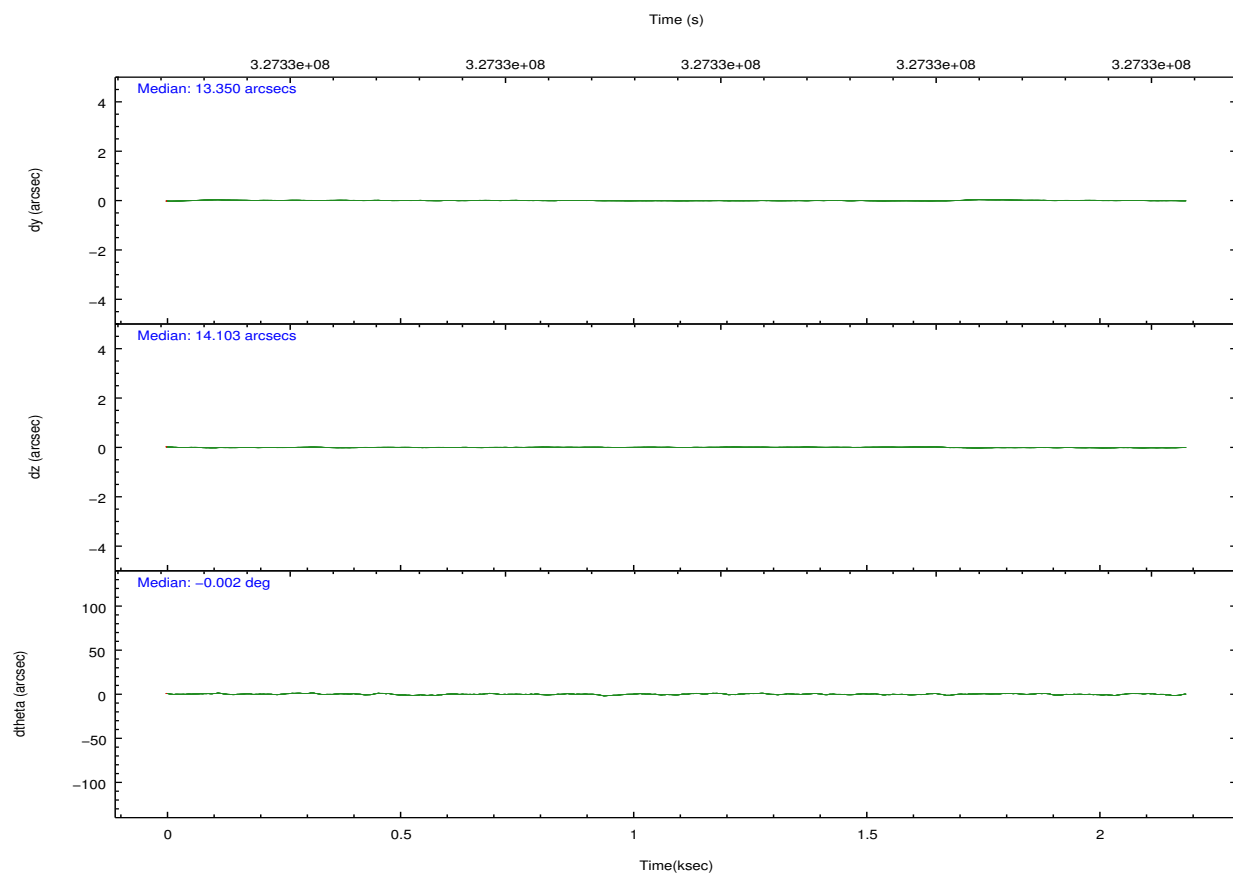
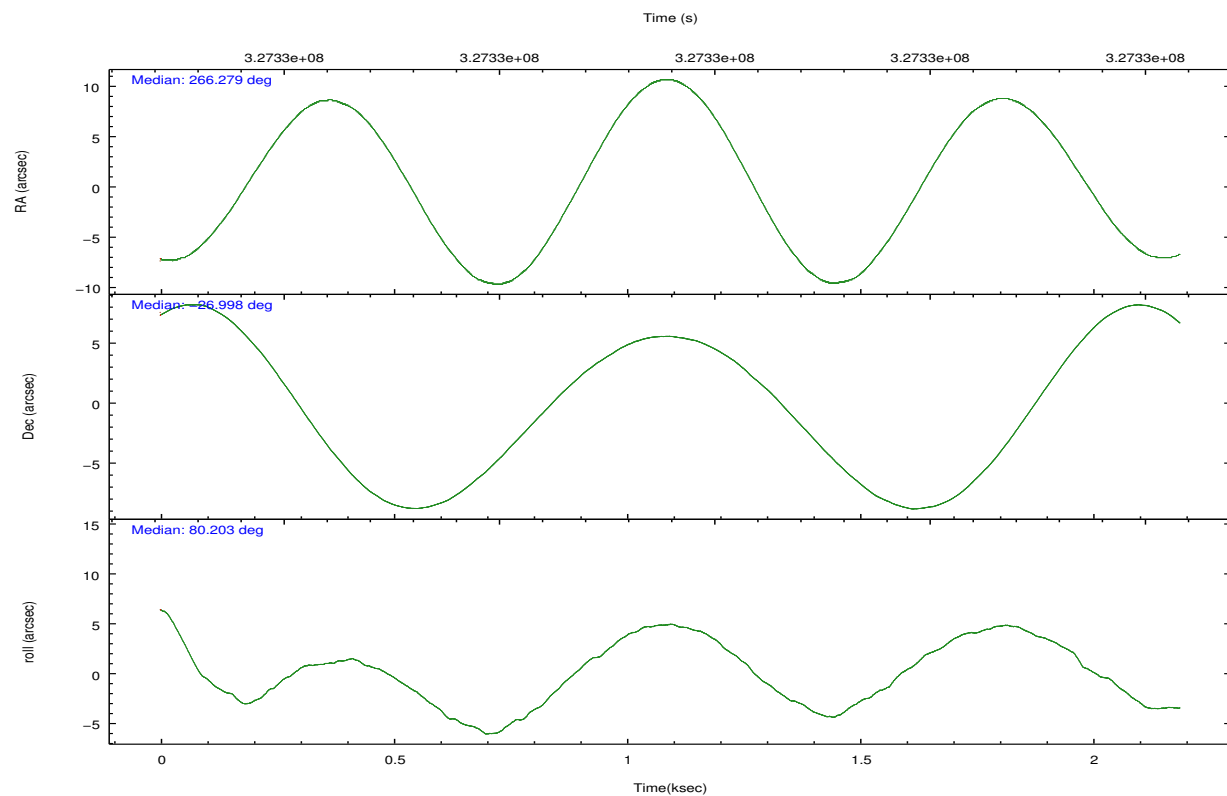
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
grade 0 events	962	1072	906	880	940
	5%	6%	4%	4%	4%
grade 1 events	14	10	8	11	22
	0%	0%	0%	0%	0%
grade 2 events	498	551	498	507	2148
	2%	3%	2%	2%	9%
grade 3 events	242	224	217	255	968
	1%	1%	1%	1%	4%
grade 4 events	201	238	223	221	895
	1%	1%	1%	1%	3%
grade 5 events	650	794	664	859	2358
	3%	4%	3%	4%	10%
grade 6 events	376	526	370	411	5320
	1%	2%	1%	1%	23%
grade 7 events	16141	14263	18780	18229	9980
	84%	80%	86%	85%	44%

## 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	266.290195	266.2793172367728	CCD I2 on	Y	Y
[deg] Pointing Dec	-27.023984	-26.99802009414699	CCD I3 on	Y	Y
[deg] Pointing Roll	80.004362	80.20812682553024	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)	327331993.184000	327331617.20129	CCD S5 on	N	N
Observation start date	2008-05-16T13:32:08	2008-05-16T13:26:57	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	327333993.184000	327334127.42642	On-chip summing requested	N	N
Observation end date	2008-05-16T14:05:28	2008-05-16T14:08:47	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect





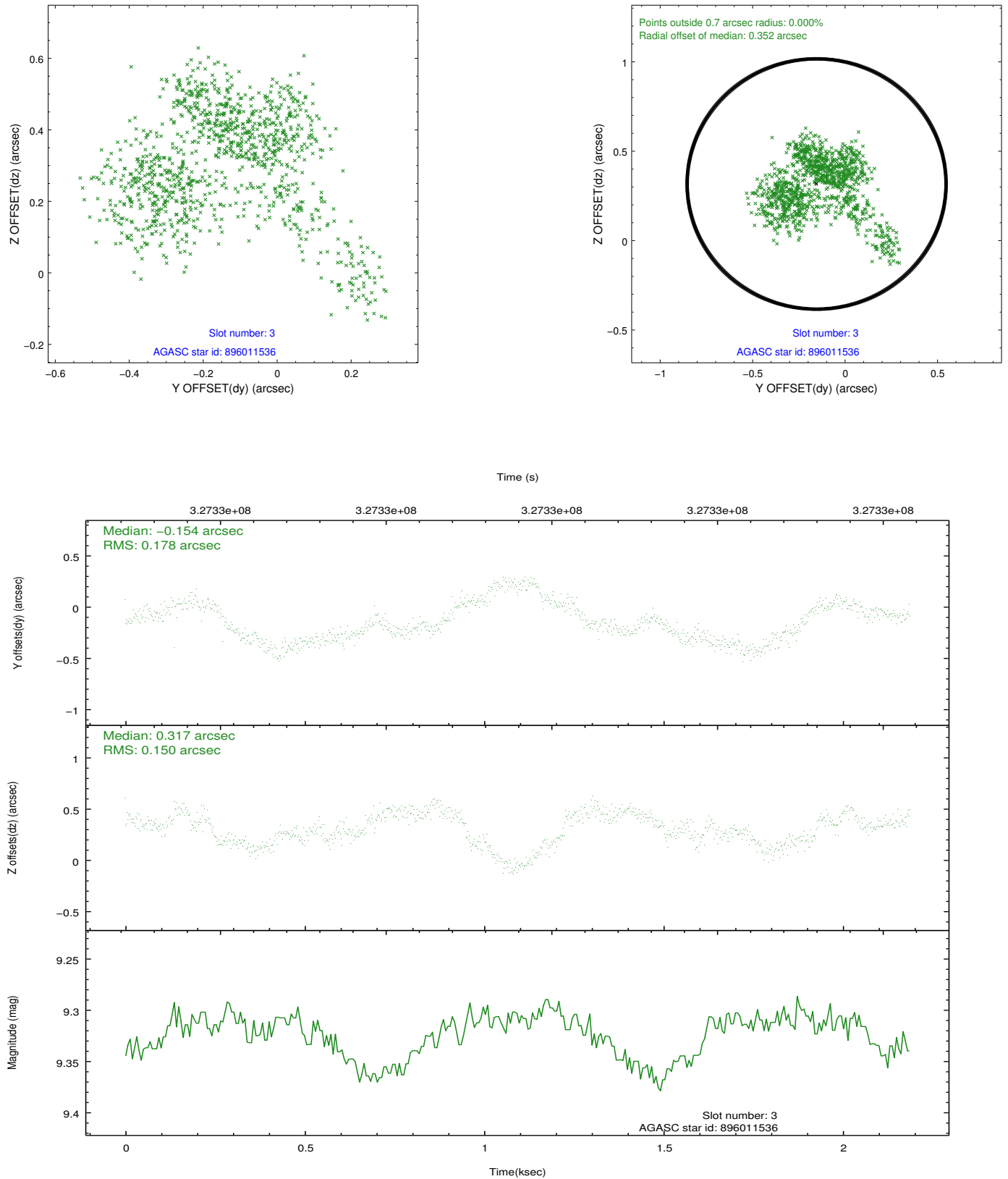
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-4	6.98	534	0.130	0.030	0.007	0.013	0.000000	0.000000	2146.24	1062.24
1	FID	ACIS-I-5	7.05	534	-0.245	0.020	0.007	0.010	0.000000	0.000000	-1818.27	1061.89
2	FID	ACIS-I-6	7.06	534	0.015	0.017	0.007	0.014	0.000000	0.000000	388.47	1706.22
3	GUIDE	896011536	9.32	1067	-0.154	0.317	0.235	0.450	267.007333	-26.766562	1306.06	-2110.27
4	GUIDE	896012968	8.67	1068	0.281	0.129	0.085	0.130	266.634547	-27.600471	-1853.39	-1444.76
5	GUIDE	896013040	7.36	1067	0.058	-0.074	0.135	0.236	266.506589	-26.972299	301.19	-653.23
6	GUIDE	896014528	7.68	1068	0.055	-0.045	0.064	0.104	266.628858	-27.438607	-1283.51	-1326.03
7	GUIDE	896015880	8.51	1067	-0.248	-0.322	0.071	0.131	265.986633	-26.306686	2370.01	1411.22

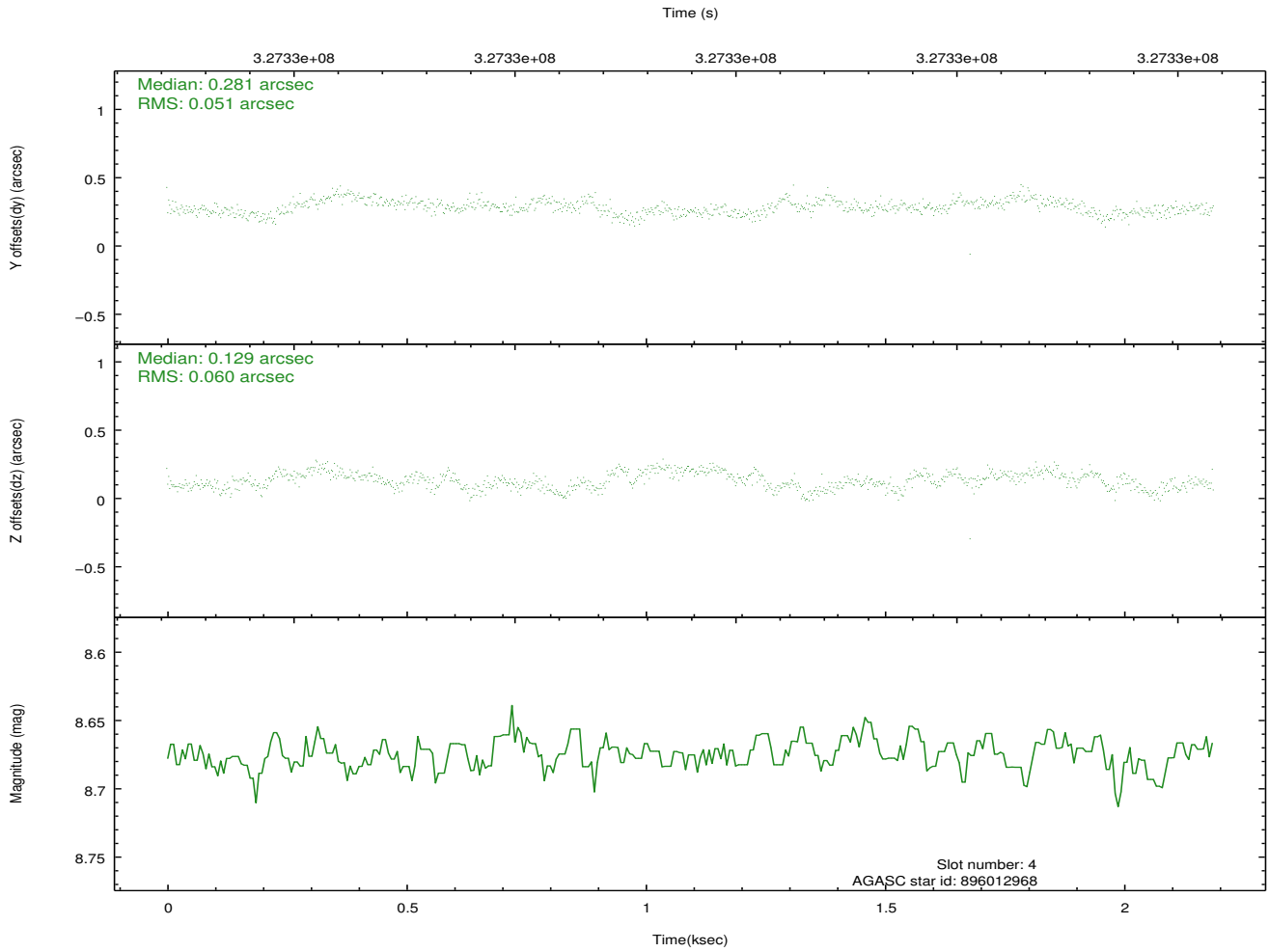
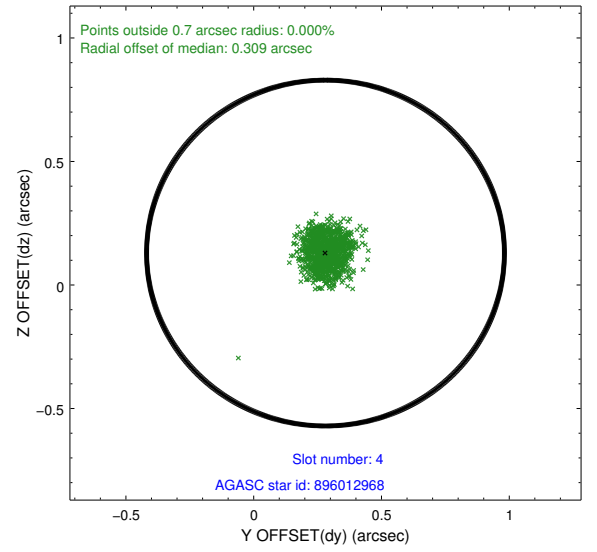
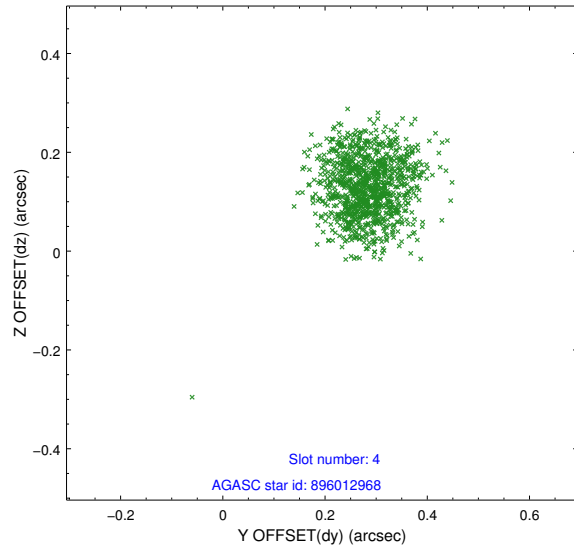


## 2.4 Star Slots

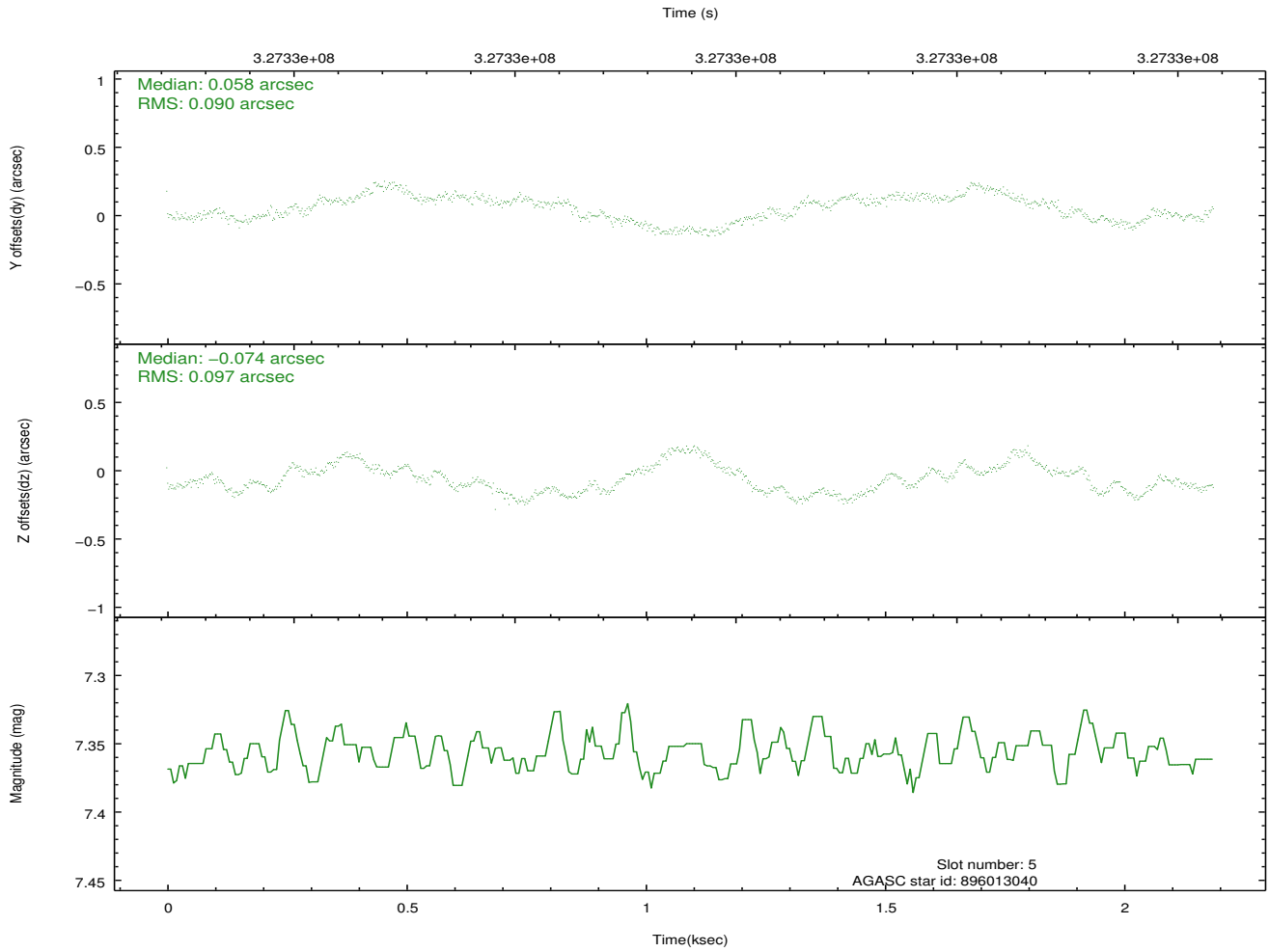
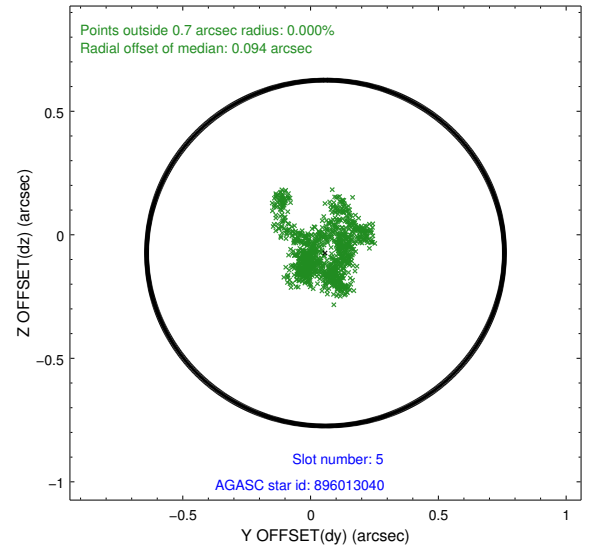
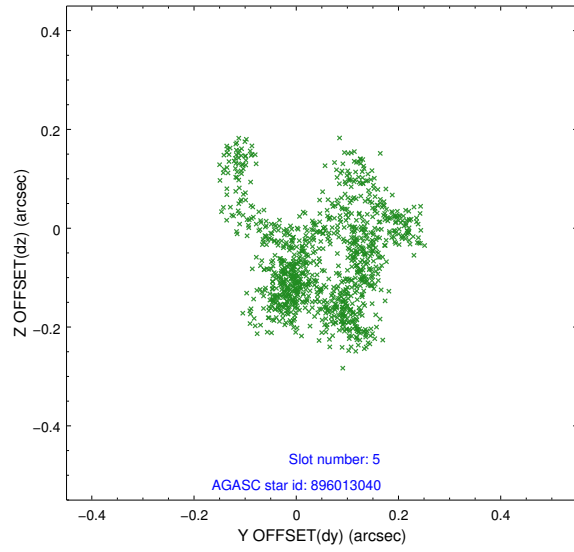
### 2.4.1 Slot 3



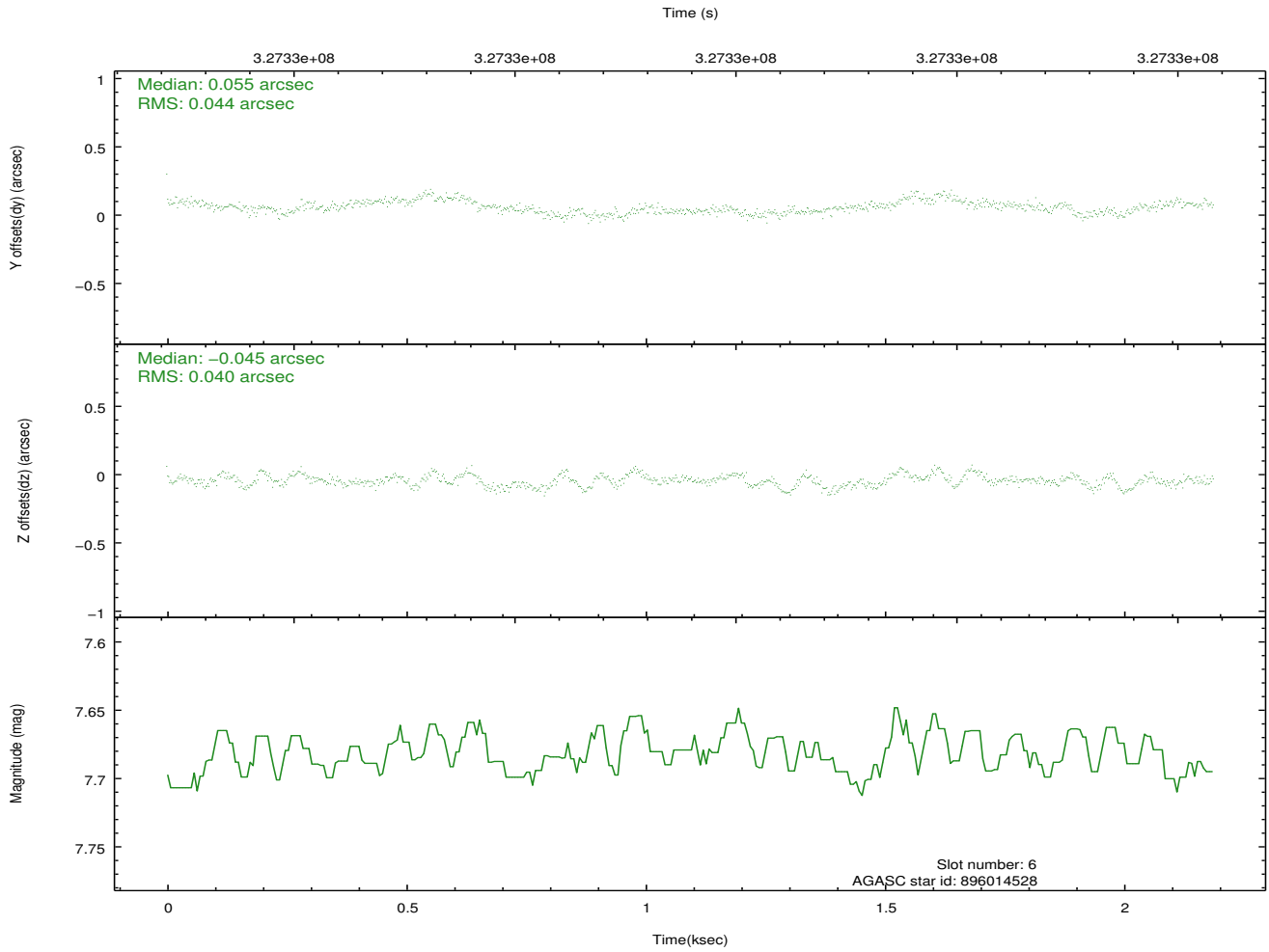
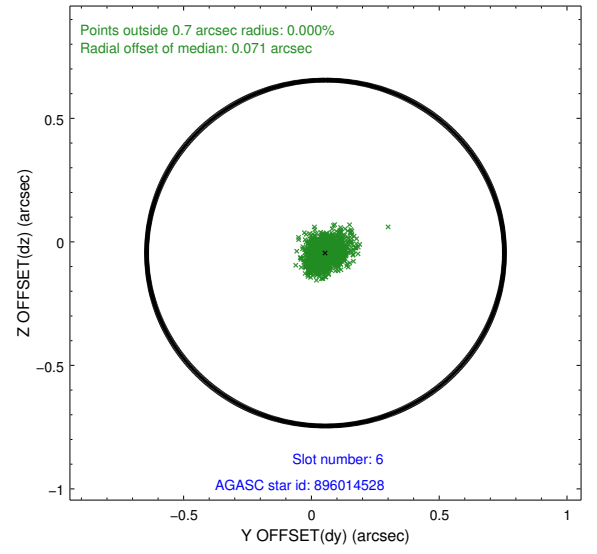
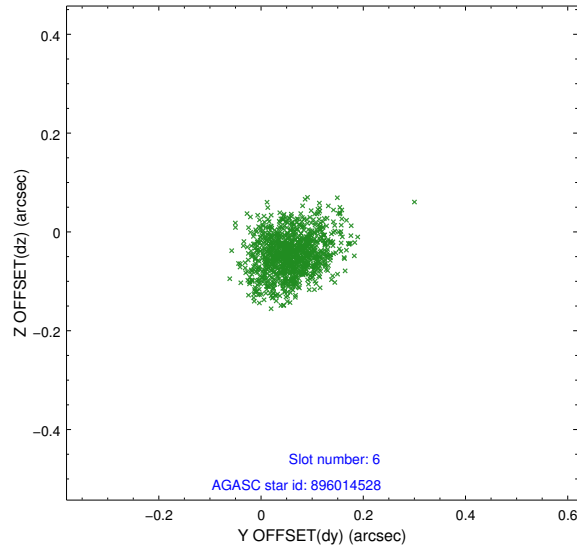
## 2.4.2 Slot 4



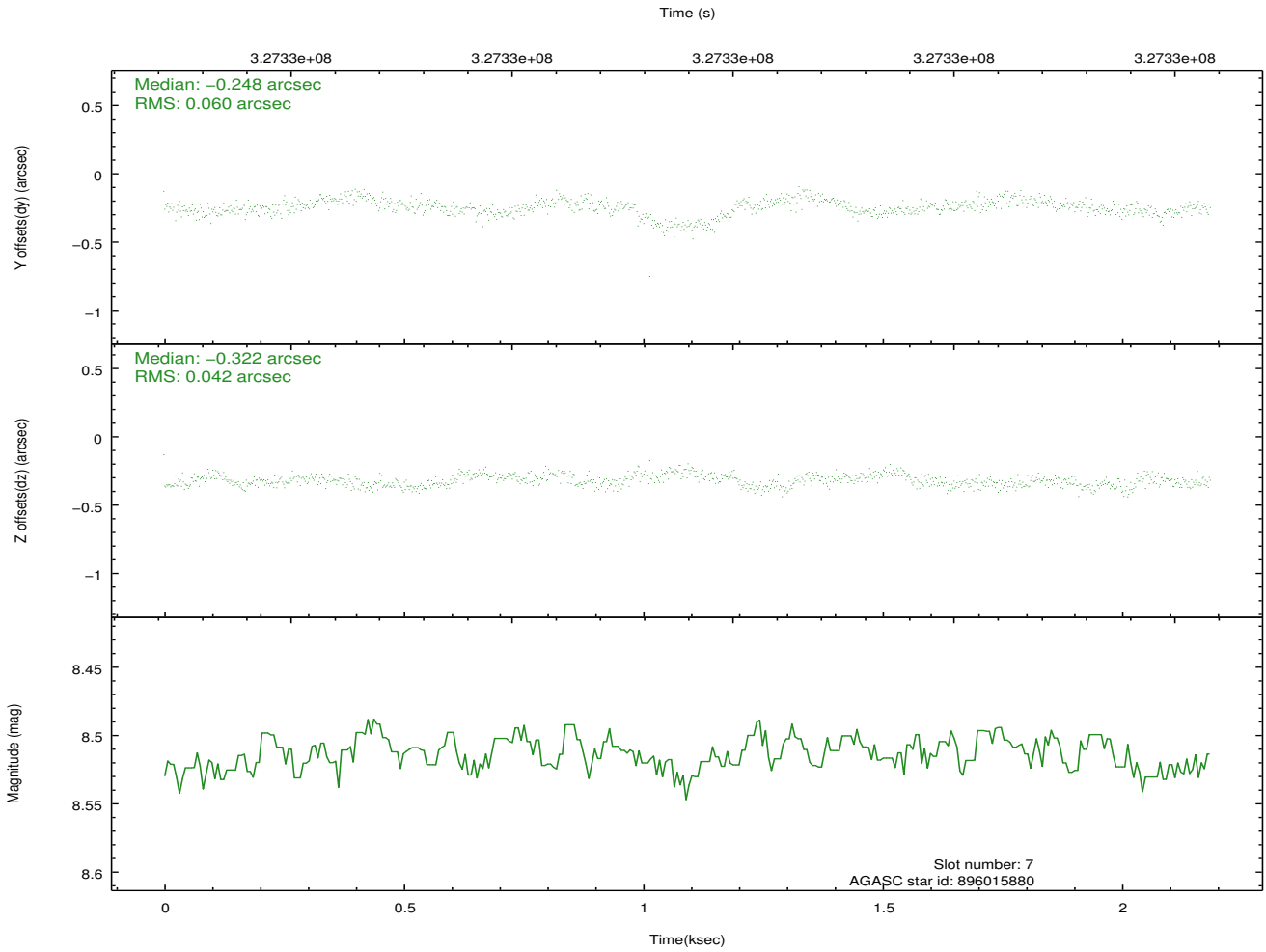
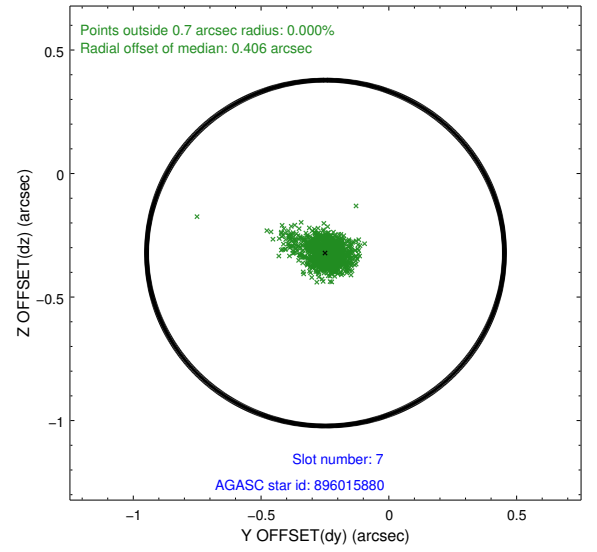
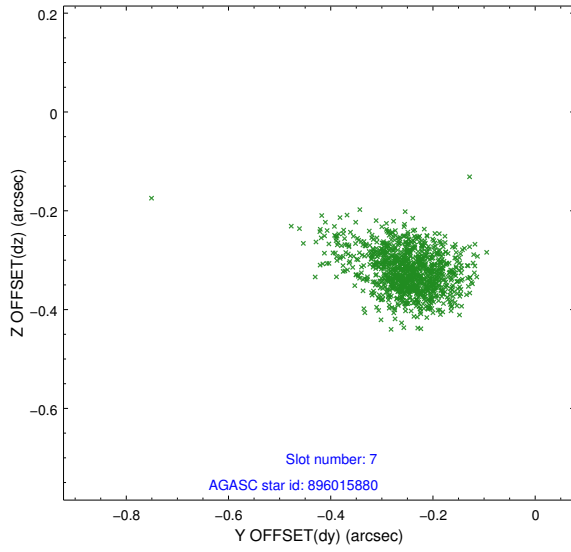
### 2.4.3 Slot 5



## 2.4.4 Slot 6

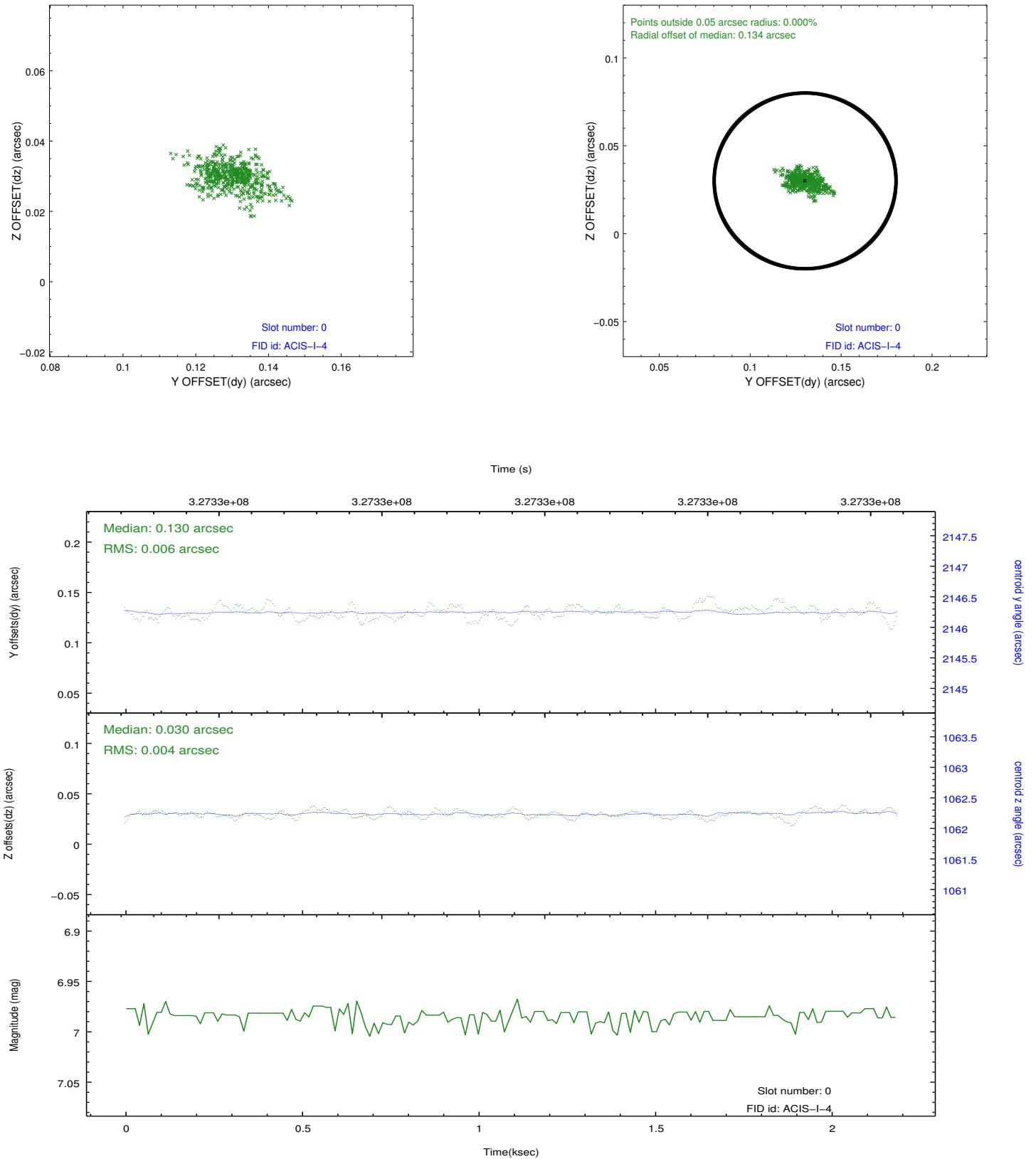


## 2.4.5 Slot 7

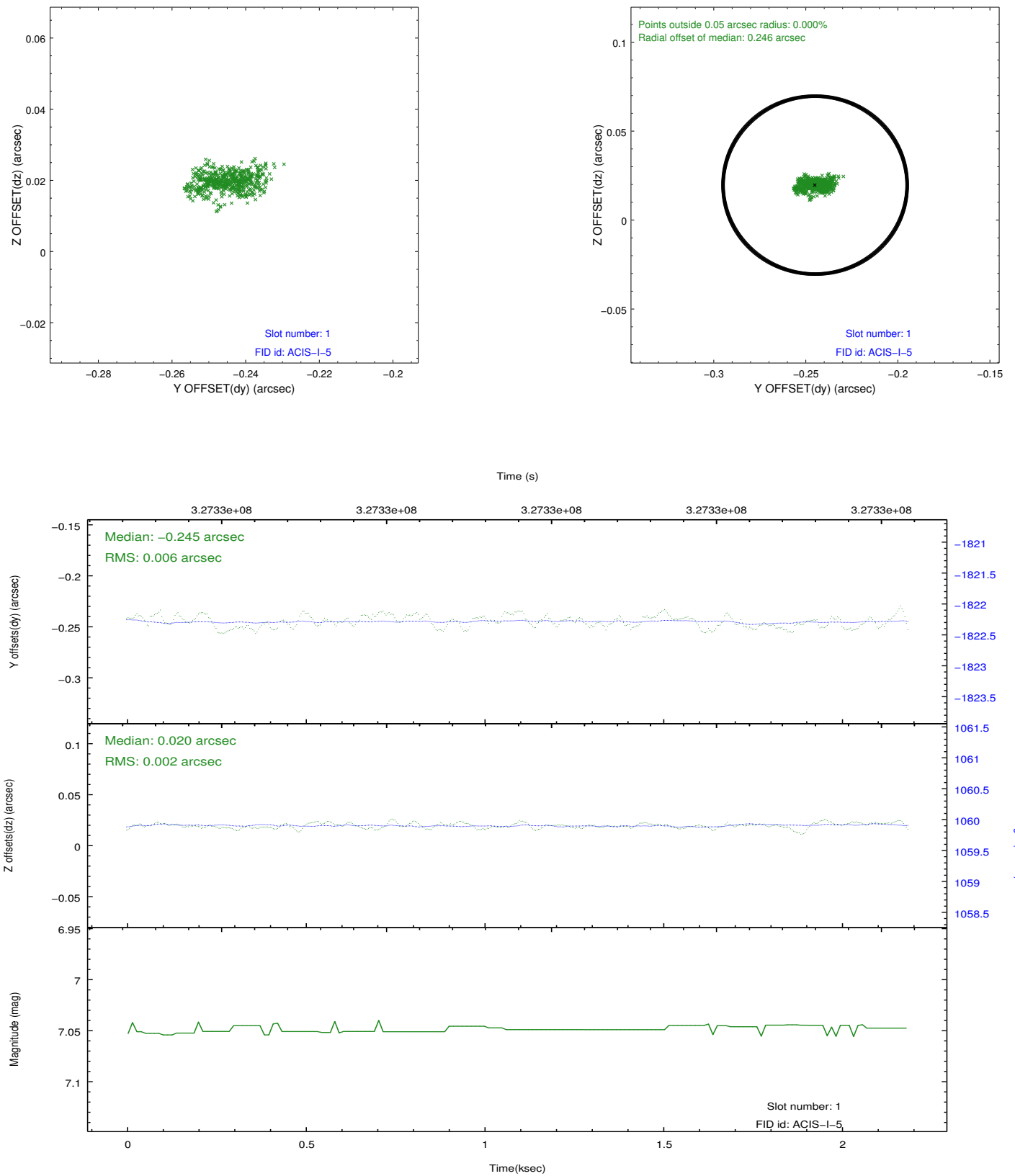


## 2.5 FID Slots

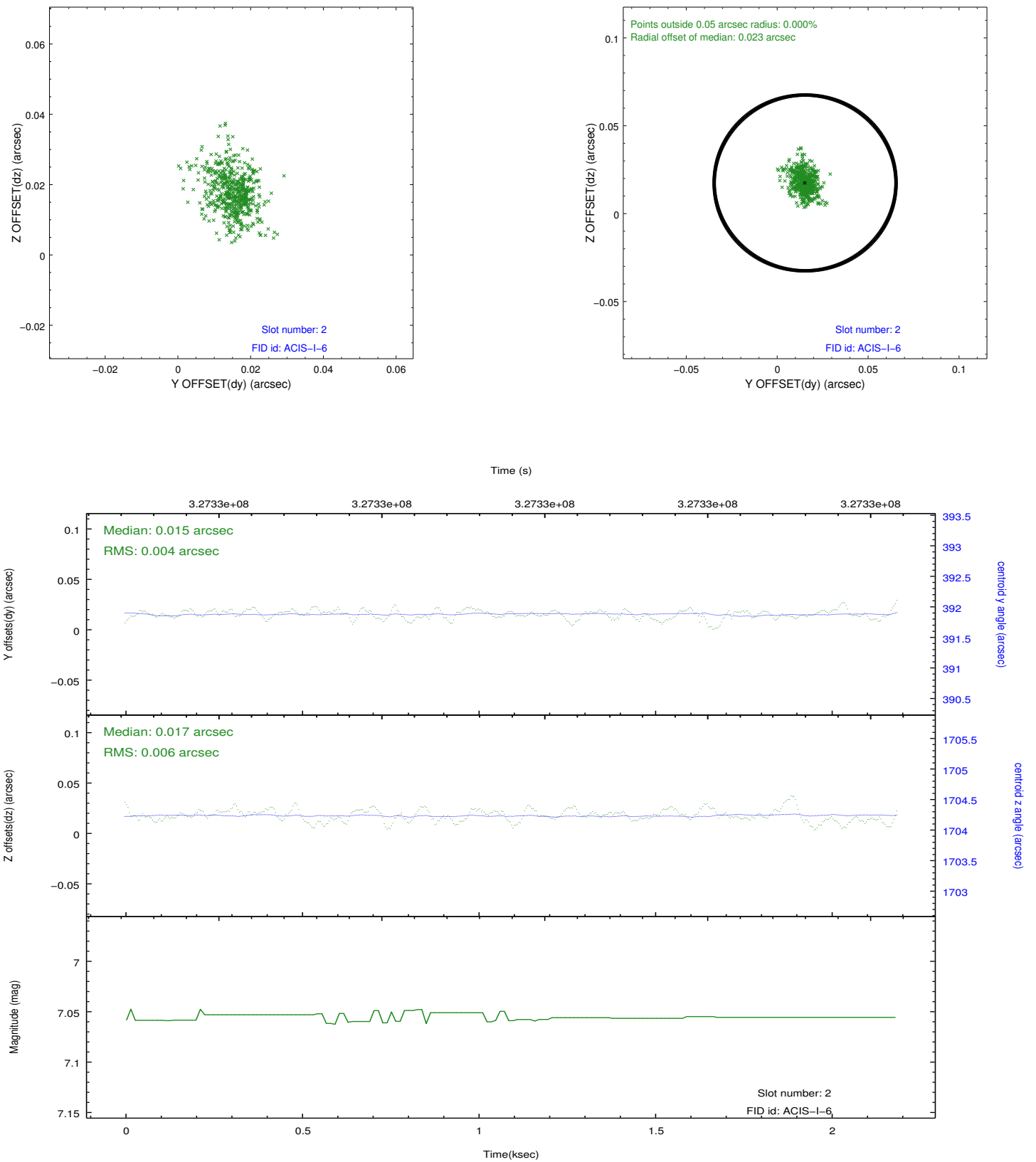
### 2.5.1 Slot 0



## 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	2.18860001

### A.2 Comments