

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 8690 - L2 Version 2  
Chandra X-Ray Center

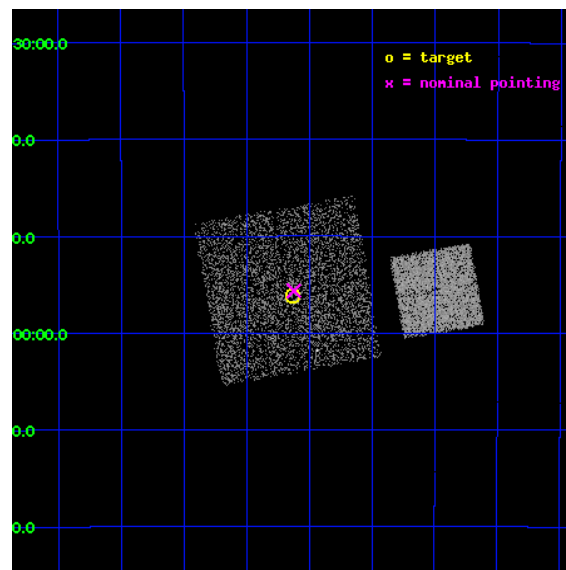
L2 Processing Date : May 15 2012

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# 1 Front

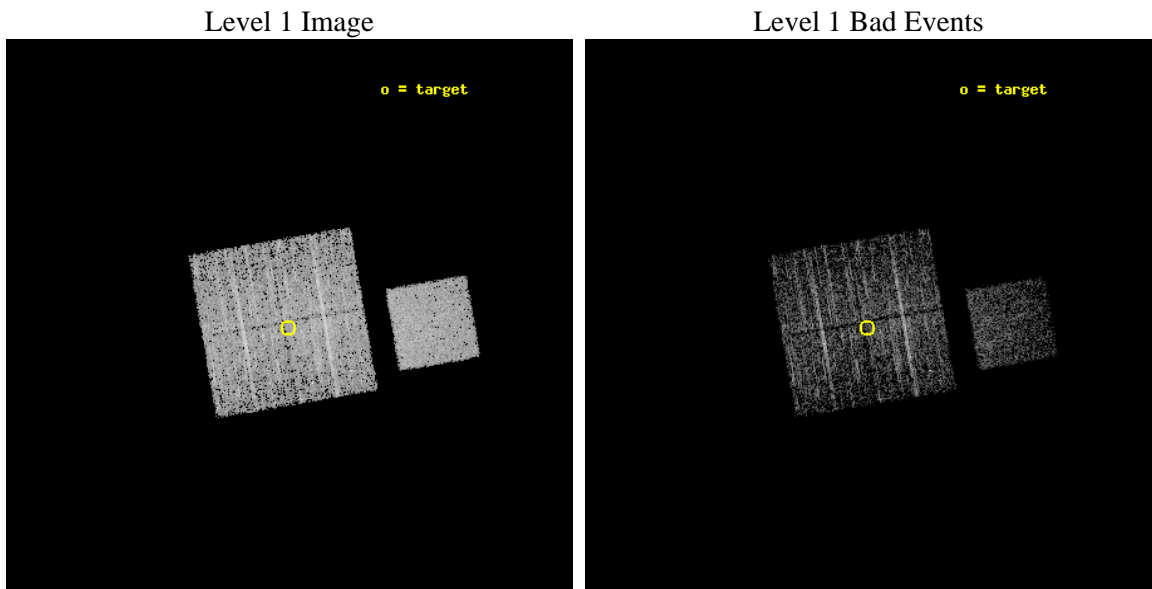
seq_num	400741	Sequence number
obs_id	8690	Observation id
title	The Galactic Bulge Survey: categorising the plethora of faint X-ray sources in the Galactic Bulge	Proposal title
observer	Prof Mariano Mendez	Principal investigator
object	GBSGTO5	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	264.657248	Observer's specified target RA [deg]
dec_targ	-28.935358	Observer's specified target Dec [deg]
ra_nom	264.65592333456	Nominal RA [deg]
dec_nom	-28.927444000334	Nominal Dec [deg]
roll_nom	80.208070314906	Nominal Roll [deg]
revision	2	Processing version of data
ontime	2182.4000167847	Sum of GTIs [s]
livetime	2153.8853539059	Livetime [s]
ontime0	2182.4000167847	Sum of GTIs [s]
ontime1	2182.4000167847	Sum of GTIs [s]
ontime2	2179.2590163946	Sum of GTIs [s]
ontime3	2182.4000167847	Sum of GTIs [s]
ontime7	2182.4000167847	Sum of GTIs [s]
l2events	15908	Number of level 2 events



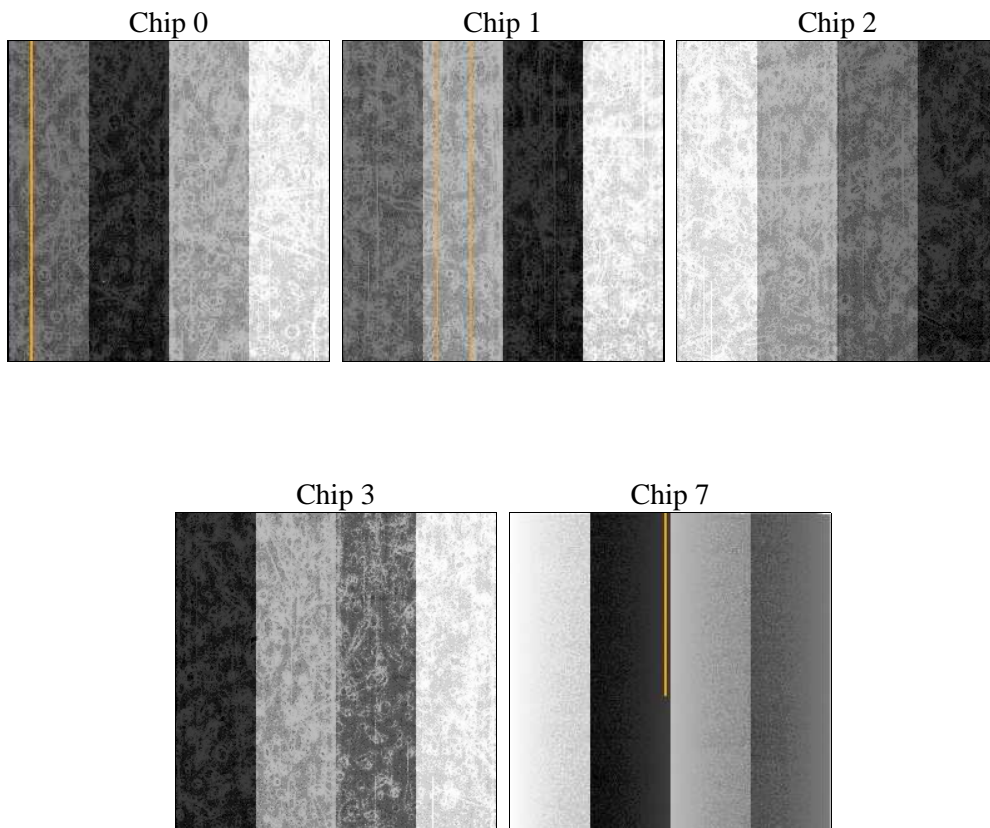
## 2 OBI

### 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	2182.4000167847	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime0	2182.4000167847	Sum of GTIs [s]
date	2012-05-15T04:47:19	Date and time of file creation	ontime1	2182.4000167847	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	2179.2590163946	Sum of GTIs [s]
			ontime3	2182.4000167847	Sum of GTIs [s]
			ontime7	2182.4000167847	Sum of GTIs [s]
			l1events	101646	Number of level 1 events

### 2.1.4 Events

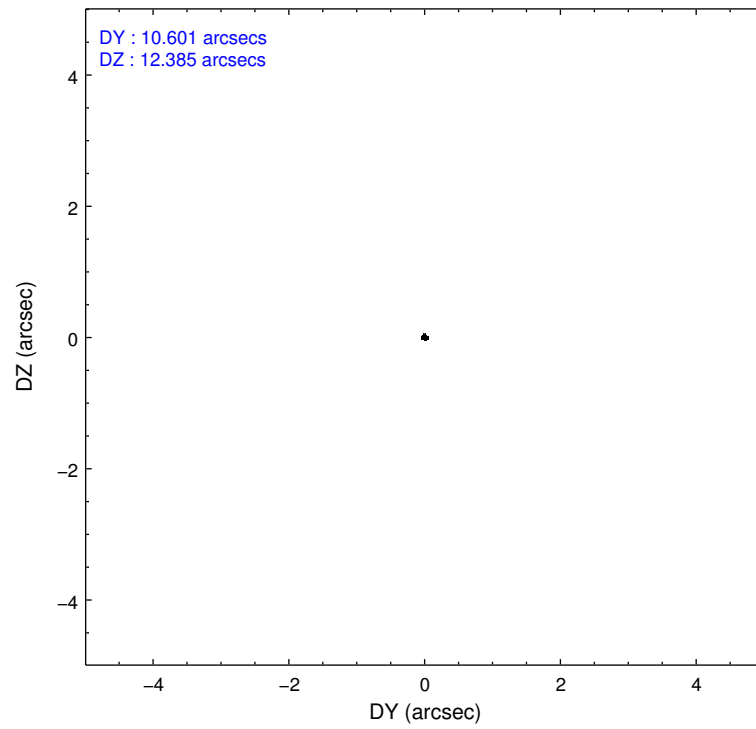
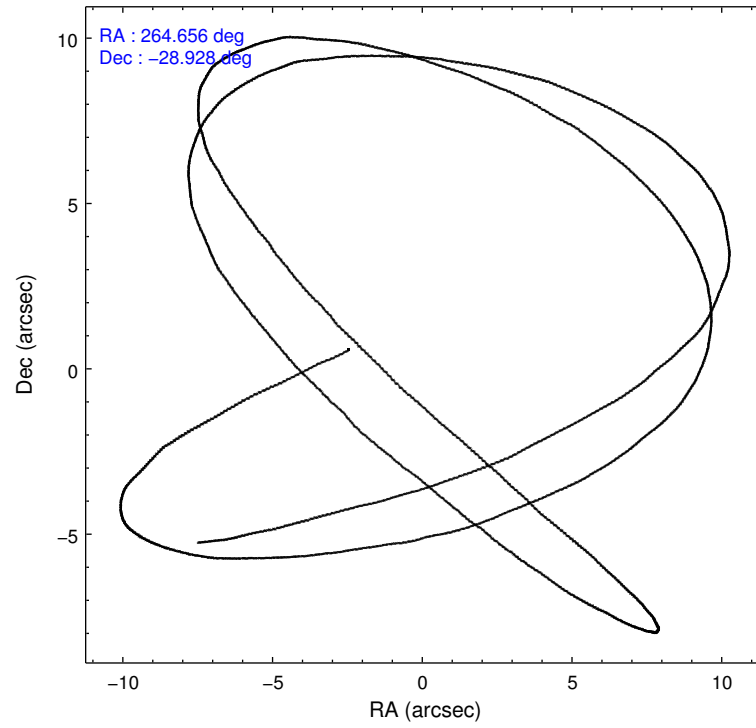
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	19101	18984	19890	20809	22862
rejected events	17062	16752	17899	18733	13745
rejected %	89%	88%	89%	90%	60%

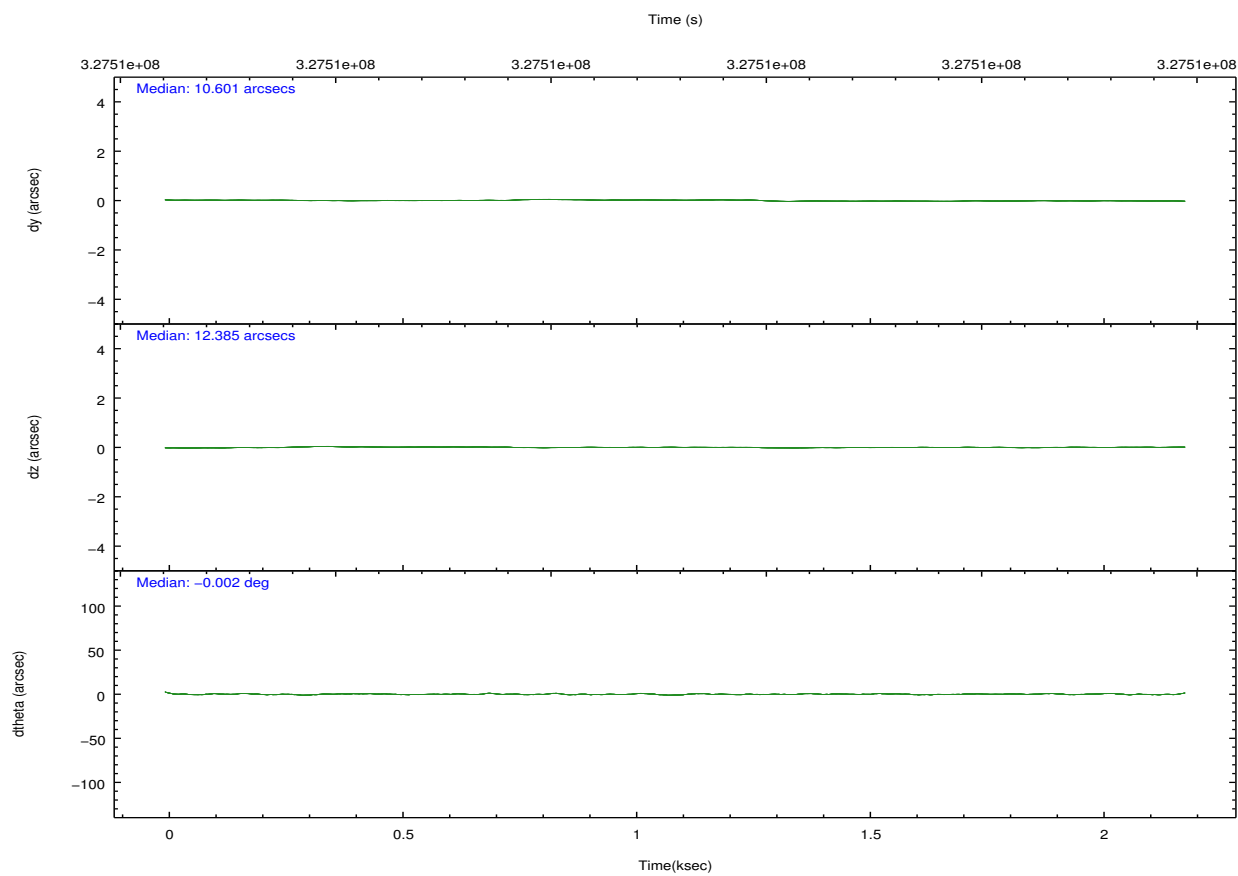
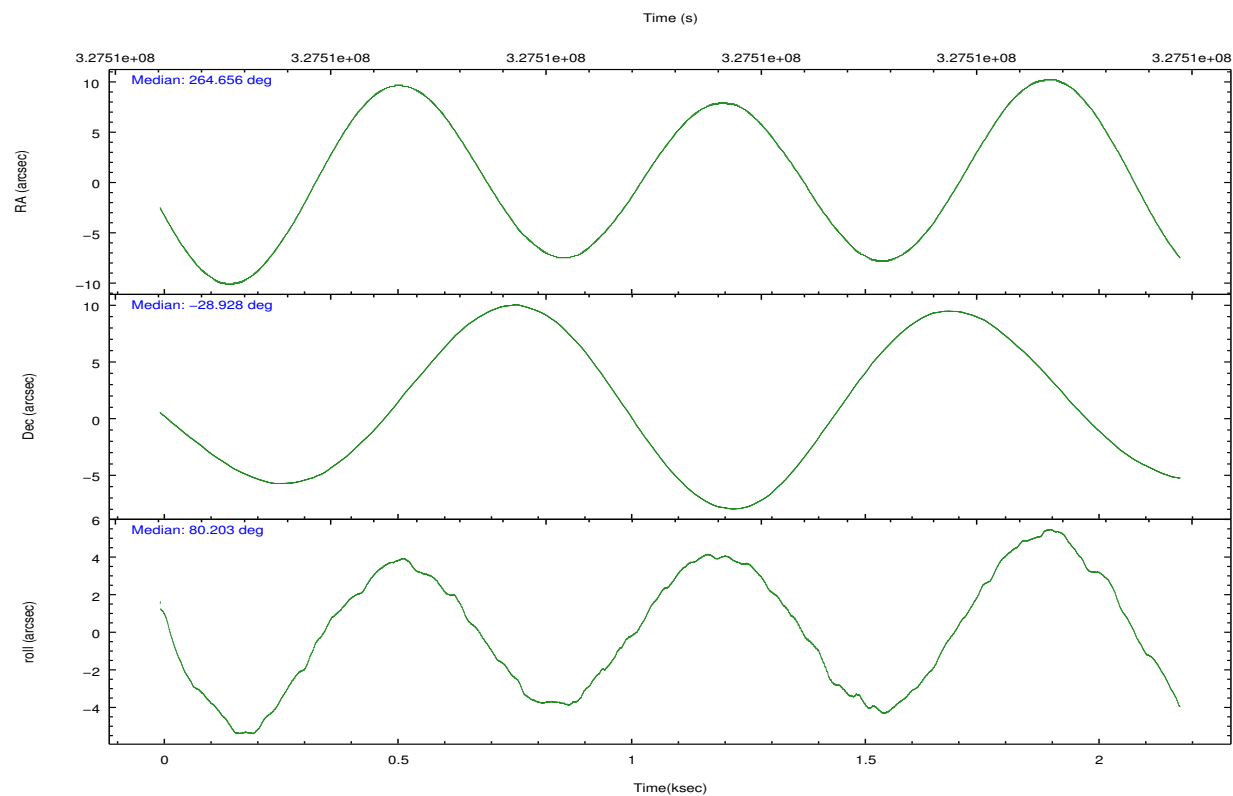
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
grade 0 events	933	1031	976	1084	1033
	4%	5%	4%	5%	4%
grade 1 events	9	12	11	9	32
	0%	0%	0%	0%	0%
grade 2 events	535	503	505	435	2171
	2%	2%	2%	2%	9%
grade 3 events	219	271	213	232	901
	1%	1%	1%	1%	3%
grade 4 events	220	297	219	253	971
	1%	1%	1%	1%	4%
grade 5 events	704	788	627	840	2394
	3%	4%	3%	4%	10%
grade 6 events	419	502	389	351	5427
	2%	2%	1%	1%	23%
grade 7 events	16062	15580	16950	17605	9933
	84%	82%	85%	84%	43%

## 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	264.667017	264.6559233345641	CCD I2 on	Y	Y
[deg] Pointing Dec	-28.953114	-28.92744400033362	CCD I3 on	Y	Y
[deg] Pointing Roll	80.004725	80.20807031490644	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)	327507374.184000	327506997.78484	CCD S5 on	N	N
Observation start date	2008-05-18T14:15:09	2008-05-18T14:09:57	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	327509374.184000	327509508.00996	On-chip summing requested	N	N
Observation end date	2008-05-18T14:48:29	2008-05-18T14:51:48	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect





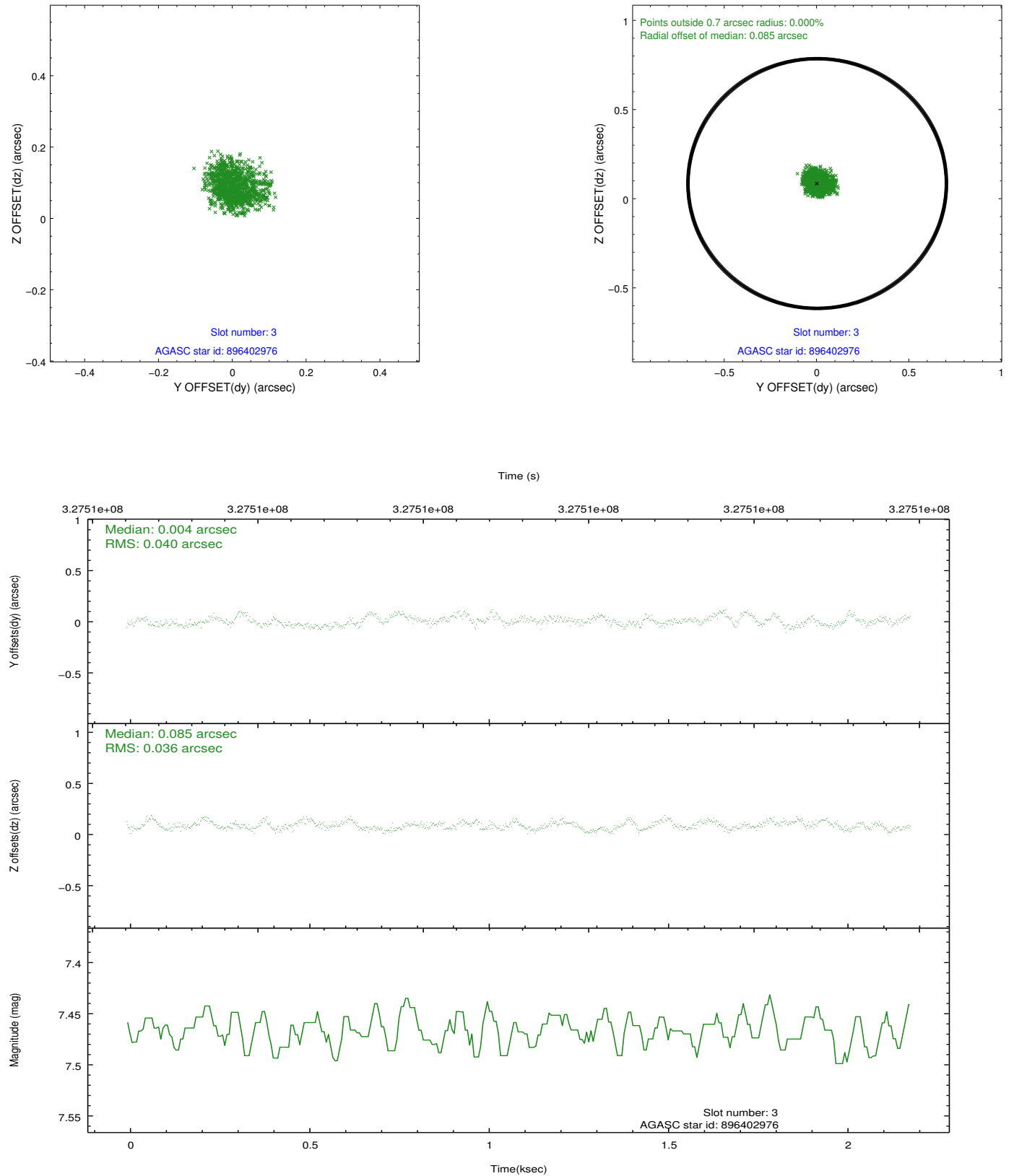
### Slot Statistics

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	533	0.035	0.018	0.006	0.011	0.000000	0.000000	929.01	-835.91
1	FID	ACIS-I-5	7.04	533	-0.163	0.060	0.006	0.010	0.000000	0.000000	-1817.63	1060.16
2	FID	ACIS-I-6	7.05	533	0.036	-0.008	0.007	0.011	0.000000	0.000000	391.33	1707.95
3	GUIDE	896402976	7.47	1066	0.004	0.085	0.059	0.090	265.099474	-28.923203	340.81	-1323.82
4	GUIDE	896403072	8.35	1064	-0.049	-0.294	0.074	0.113	263.956439	-28.943077	-358.94	2207.91
5	GUIDE	896404376	6.67	1065	-0.008	0.112	0.055	0.091	264.835179	-29.530972	-1957.35	-878.13
6	GUIDE	896405480	8.24	1063	0.147	0.164	0.069	0.108	265.220460	-29.599691	-1996.66	-2111.97
7	GUIDE	896406568	8.24	1065	-0.100	-0.067	0.066	0.103	264.435951	-28.437282	1699.66	1040.47

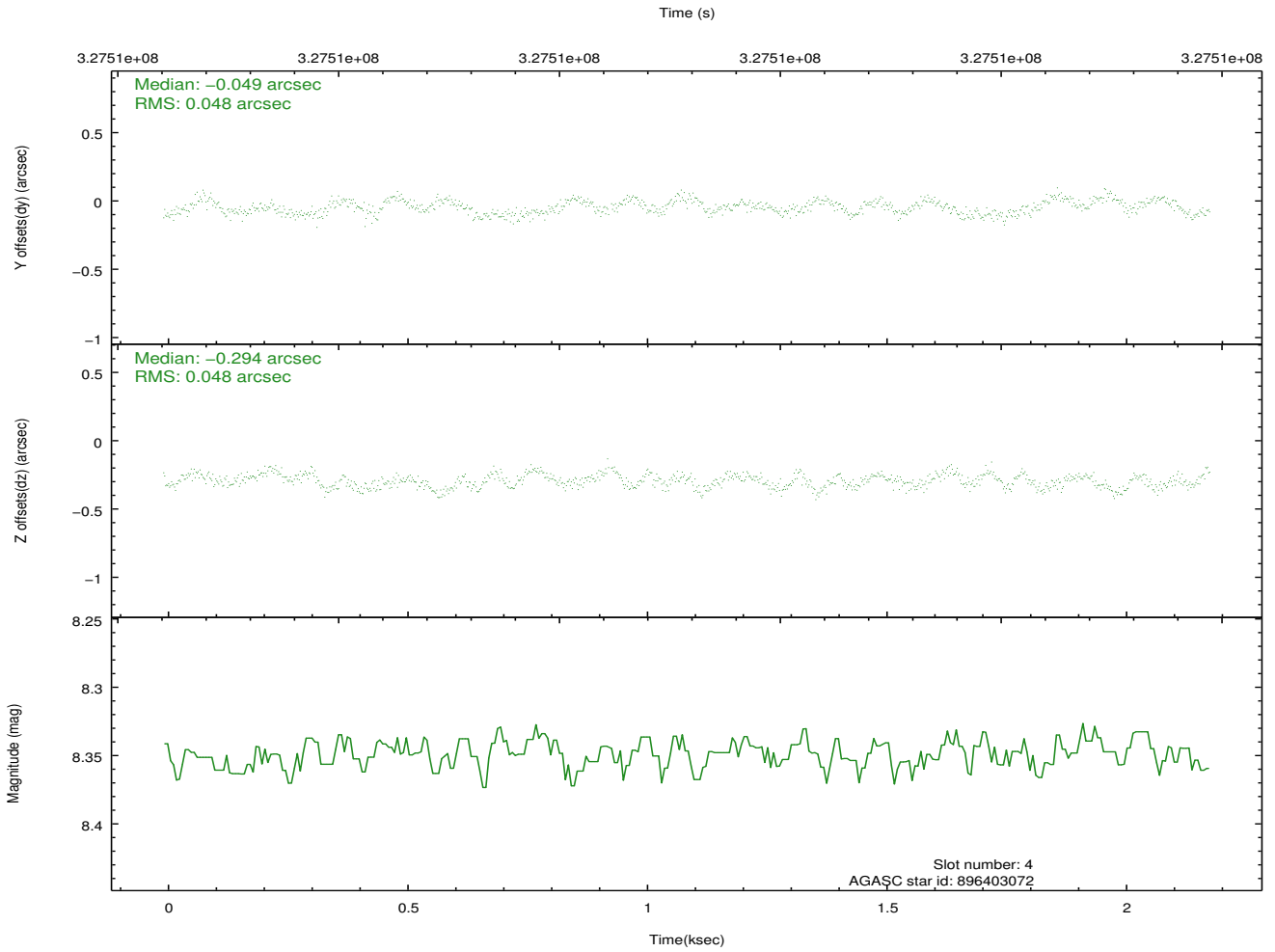
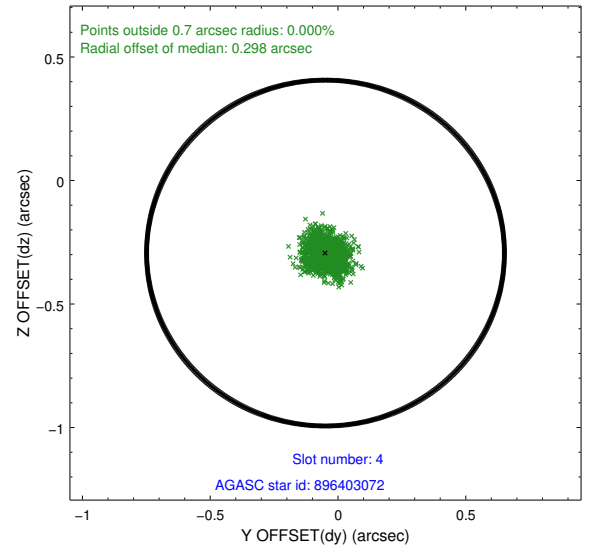
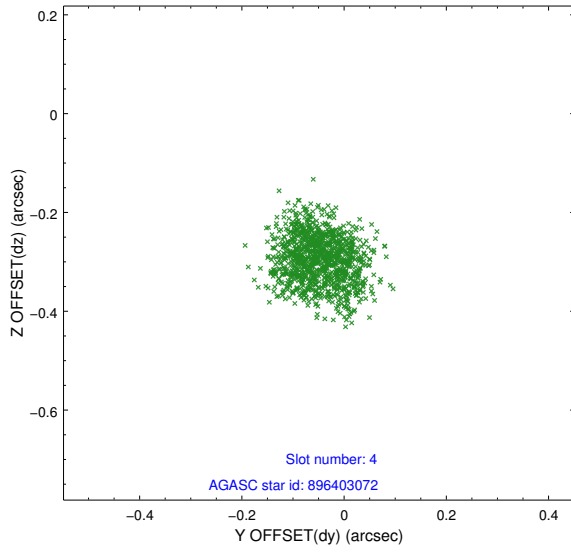


## 2.4 Star Slots

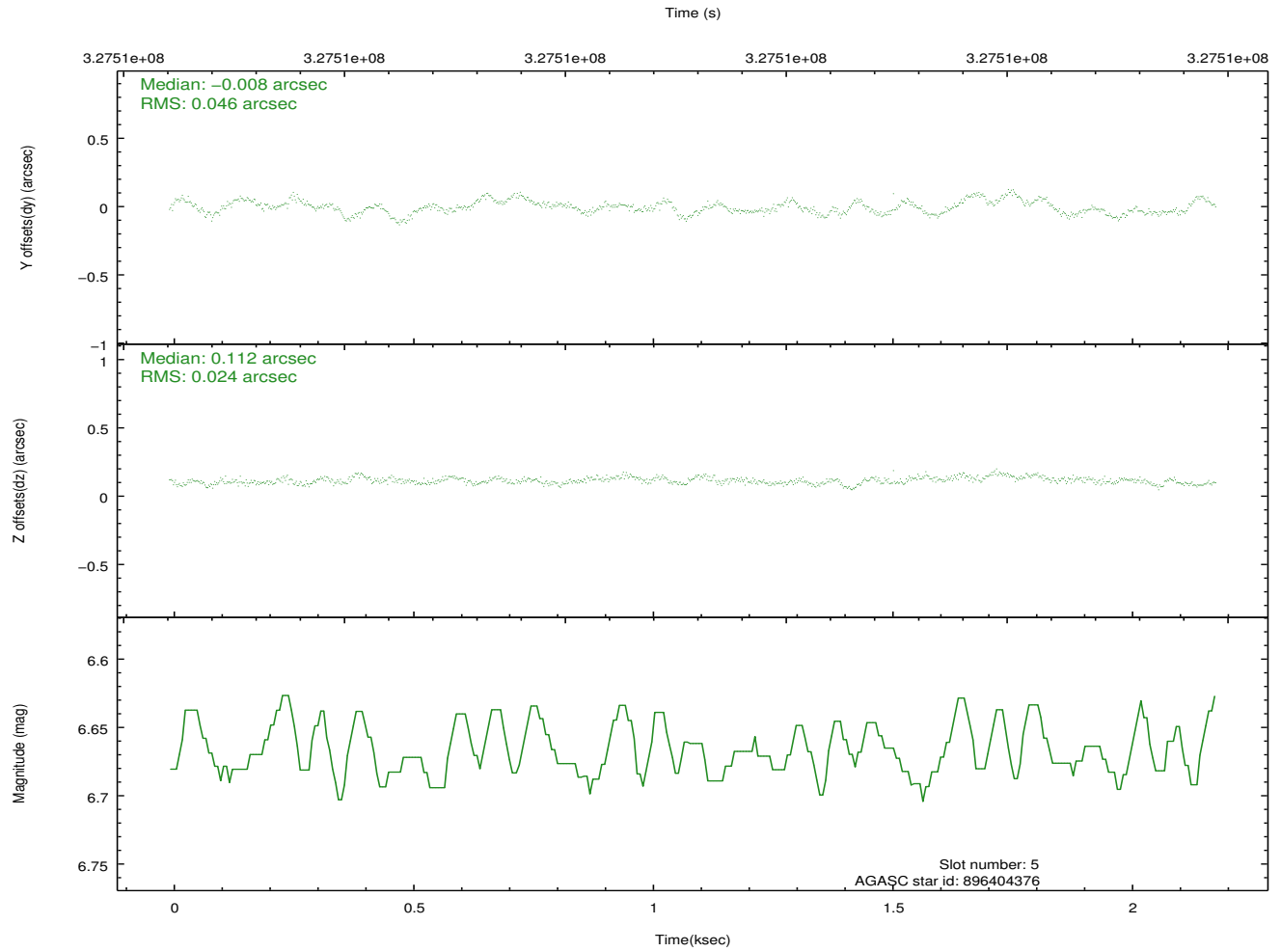
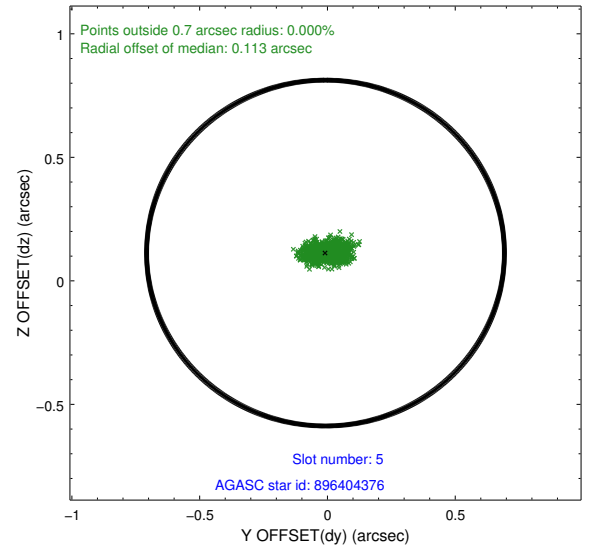
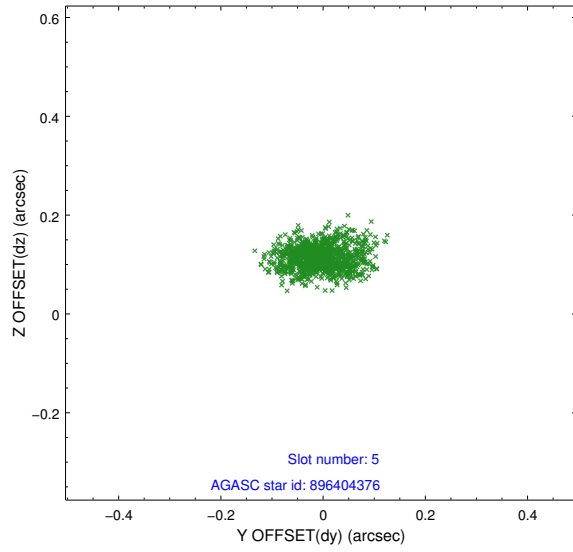
### 2.4.1 Slot 3



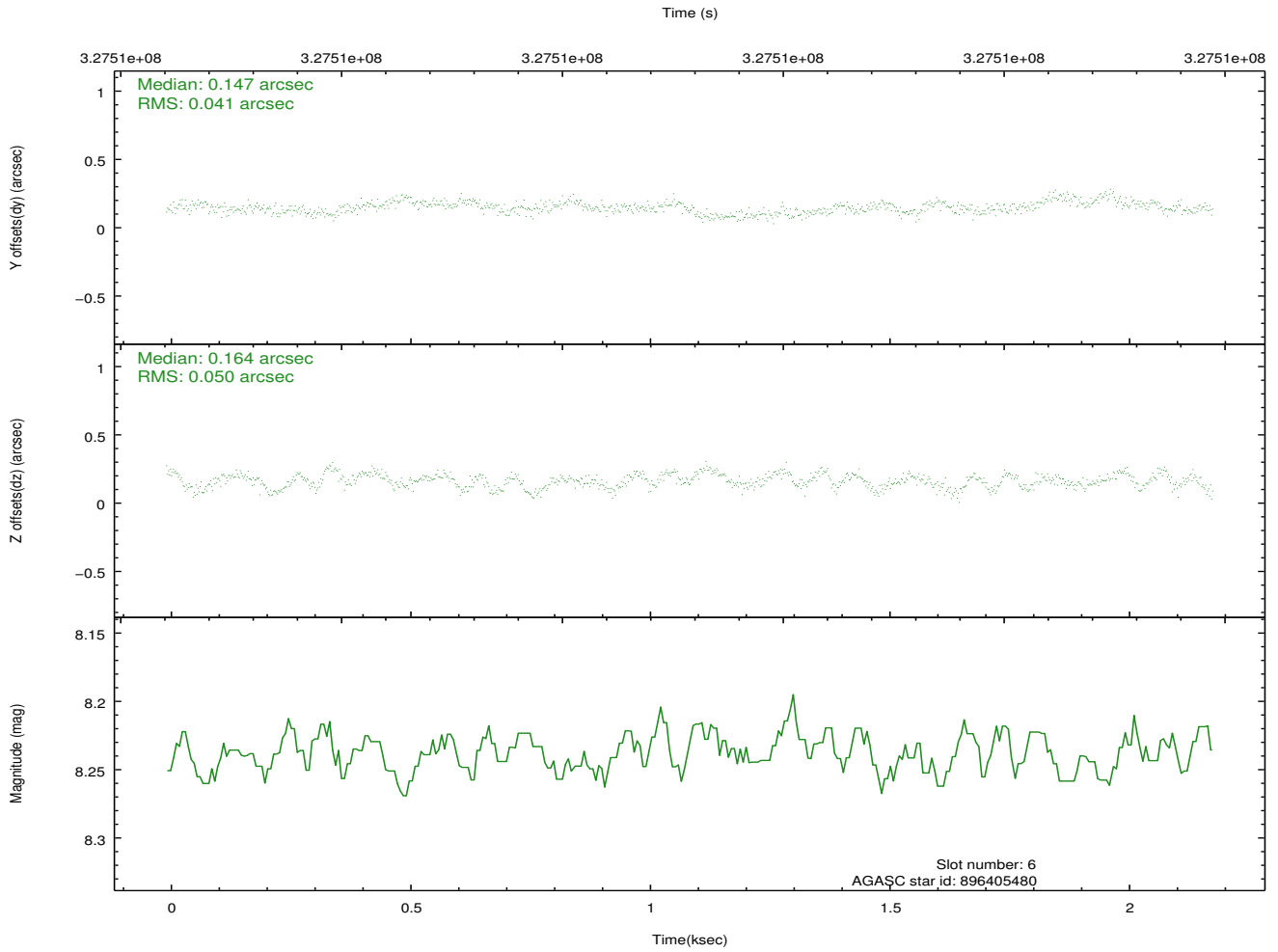
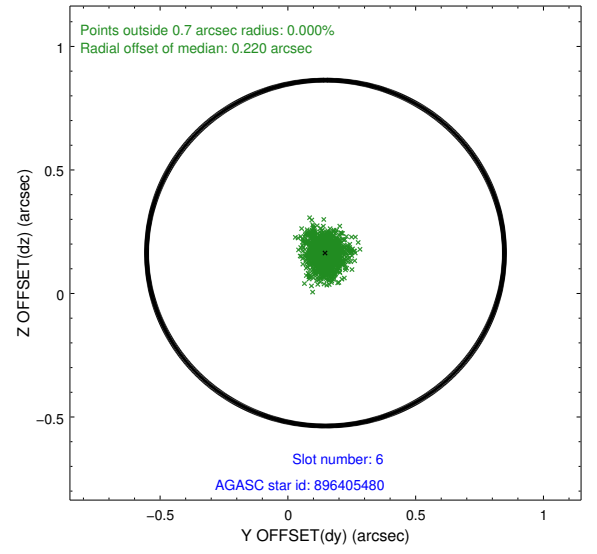
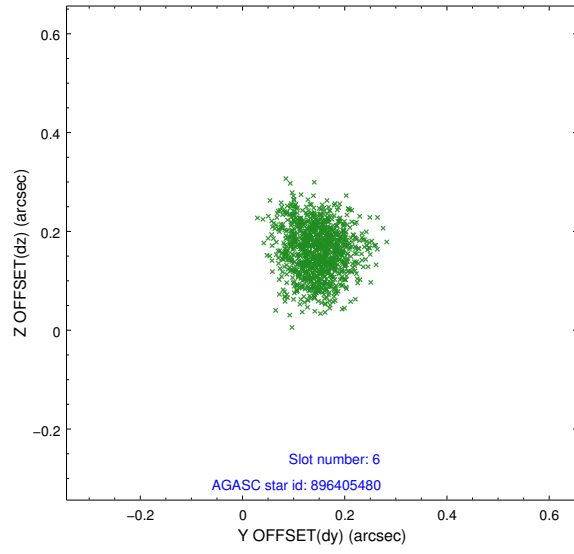
## 2.4.2 Slot 4



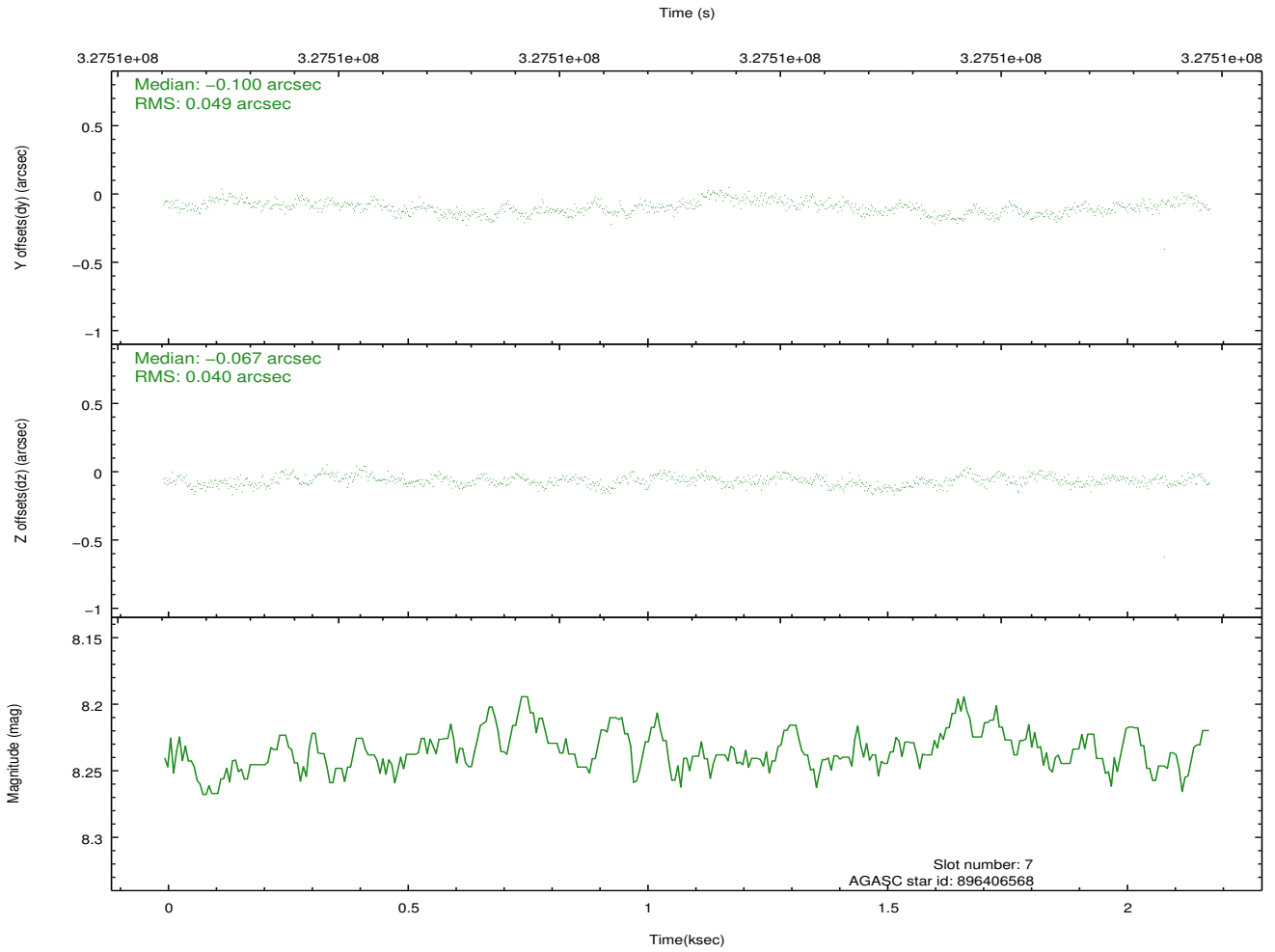
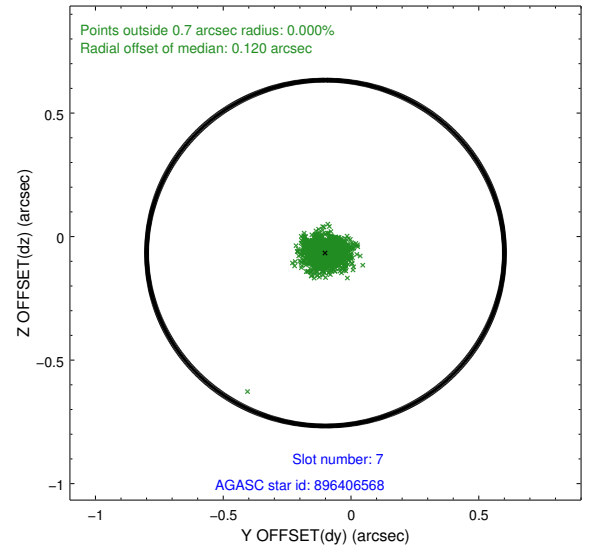
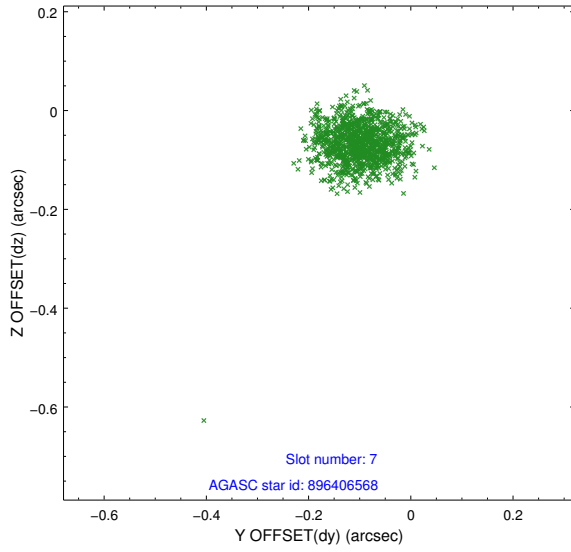
### 2.4.3 Slot 5



## 2.4.4 Slot 6

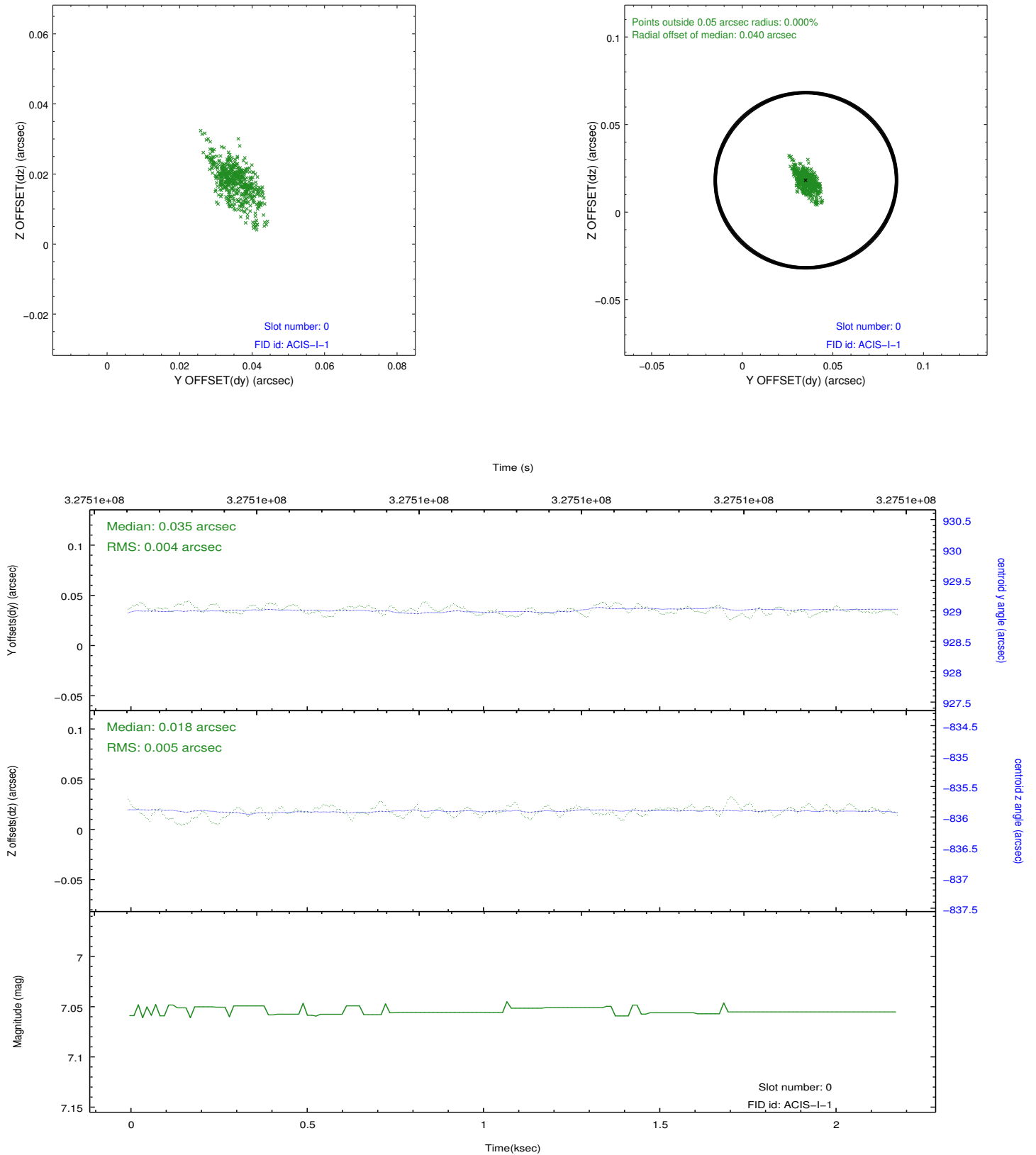


## 2.4.5 Slot 7

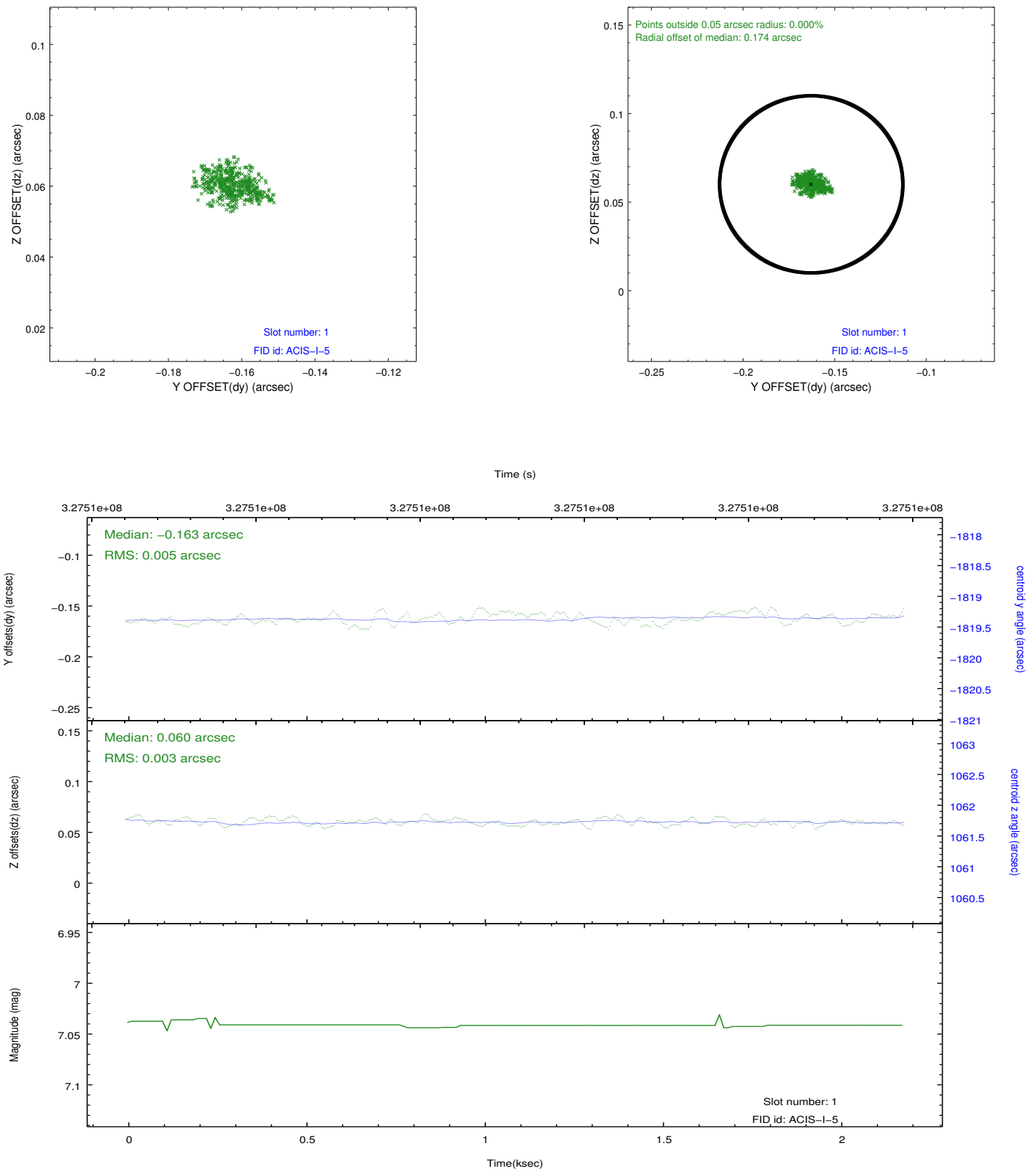


## 2.5 FID Slots

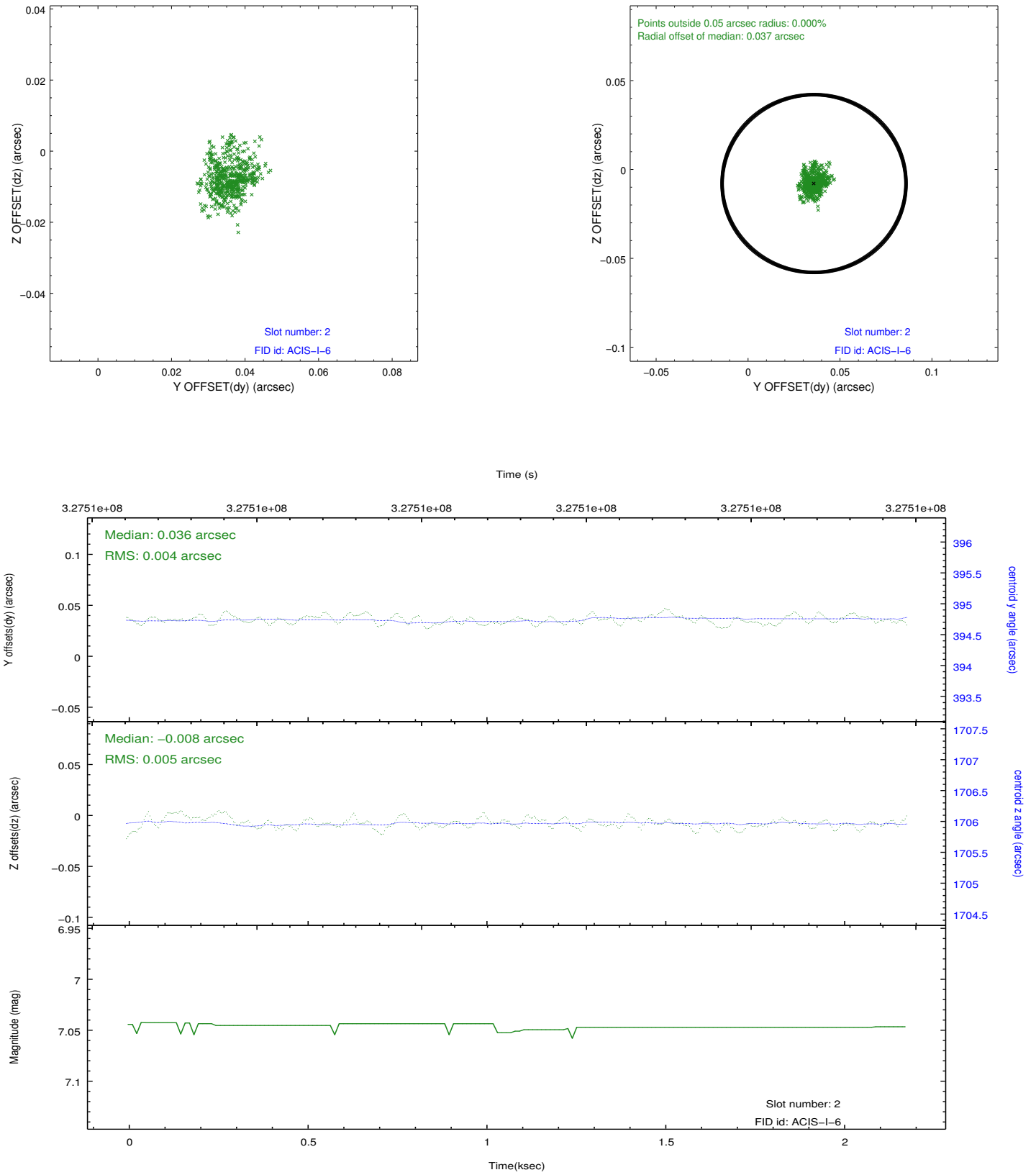
### 2.5.1 Slot 0



## 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)	2012.05.21
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.18240001

### A.2 Comments