

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 8696 - L2 Version 2  
Chandra X-Ray Center

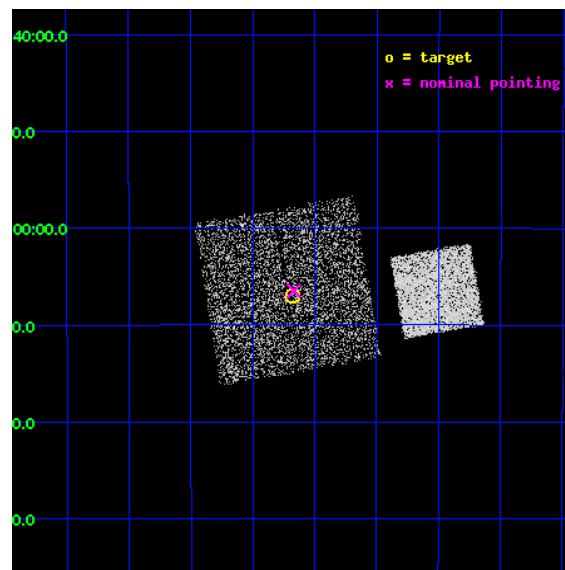
L2 Processing Date : May 15 2012

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# 1 Front

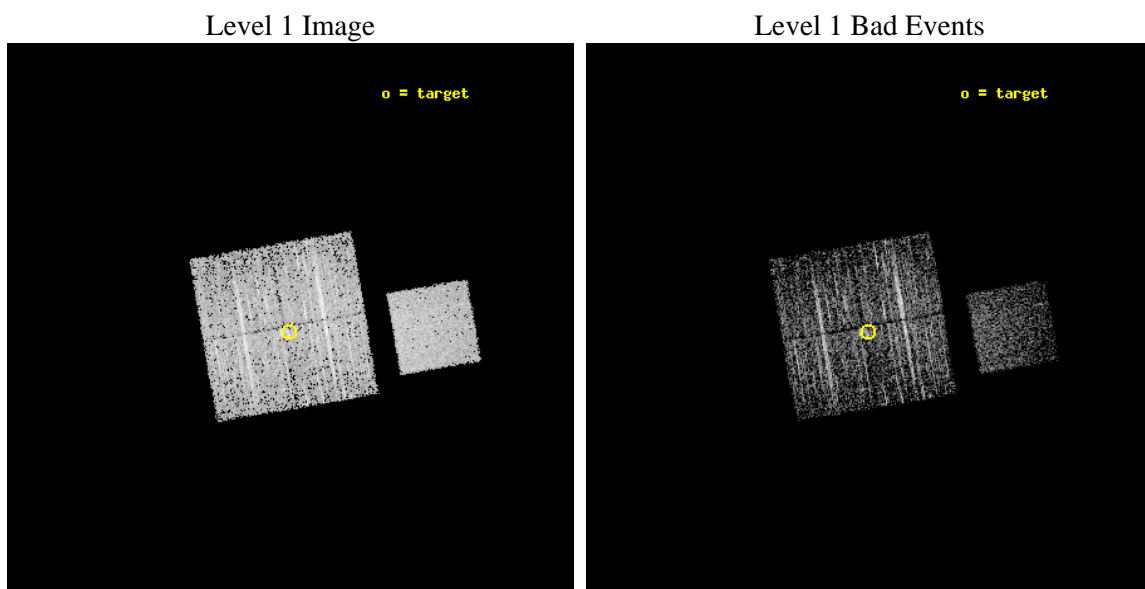
seq_num	400747	Sequence number
obs_id	8696	Observation id
title	The Galactic Bulge Survey: categorising the plethora of faint X-ray sources in the Galactic Bulge	Proposal title
observer	Prof Mariano Mendez	Principal investigator
object	GBSGTO5	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	263.793355	Observer's specified target RA [deg]
dec_targ	-30.116025	Observer's specified target Dec [deg]
ra_nom	263.79212912238	Nominal RA [deg]
dec_nom	-30.108071860159	Nominal Dec [deg]
roll_nom	80.208088921709	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	2179.2589865923	Sum of GTIs [s]
ontime2	2182.4000167847	Sum of GTIs [s]
ontime3	2182.4000167847	Sum of GTIs [s]
ontime7	2182.4000167847	Sum of GTIs [s]
l2events	15807	Number of level 2 events



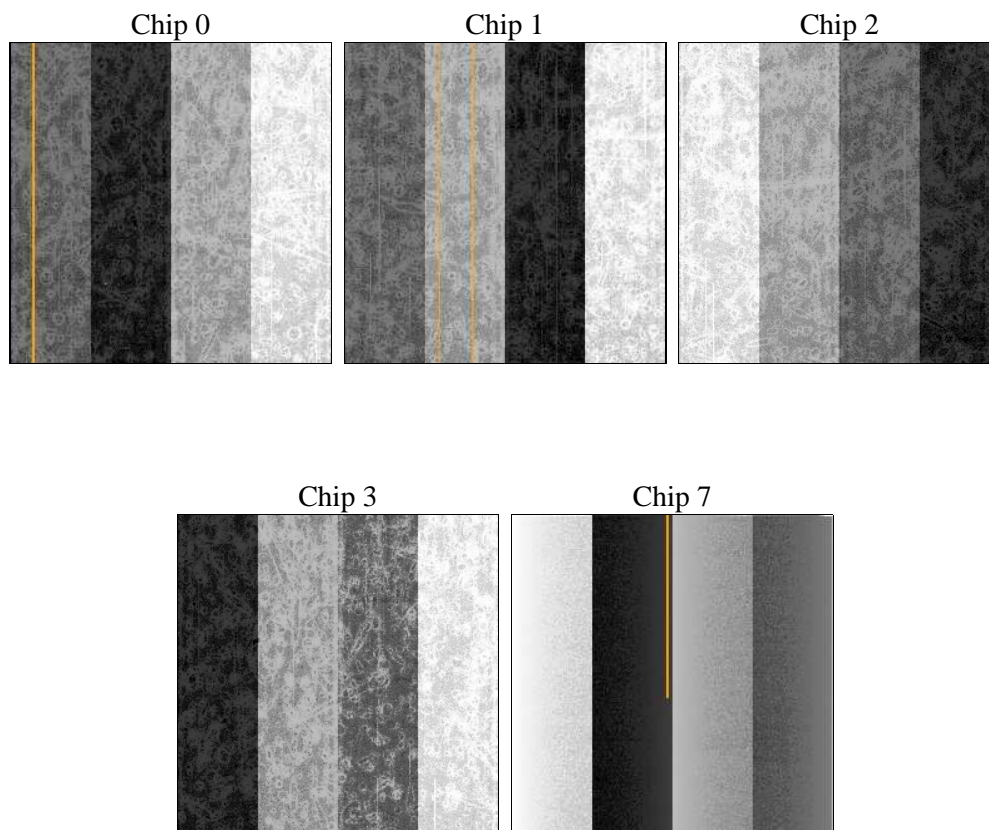
## 2 OBI

### 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	2012-05-15T03:58:42	Date and time of file creation	ontime1	2179.2589865923	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	2182.4000167847	Sum of GTIs [s]
			ontime3	2182.4000167847	Sum of GTIs [s]
			ontime7	2182.4000167847	Sum of GTIs [s]
			l1events	102760	Number of level 1 events

### 2.1.4 Events

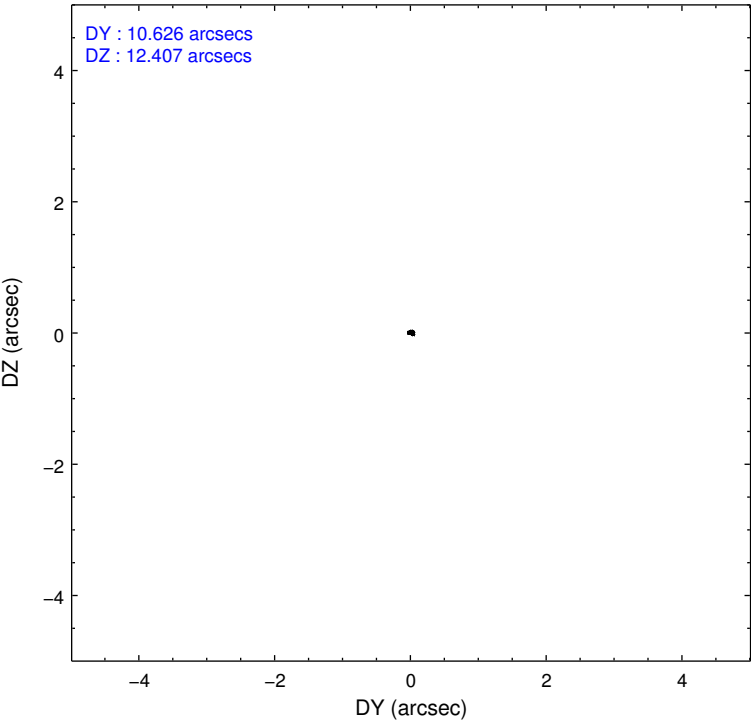
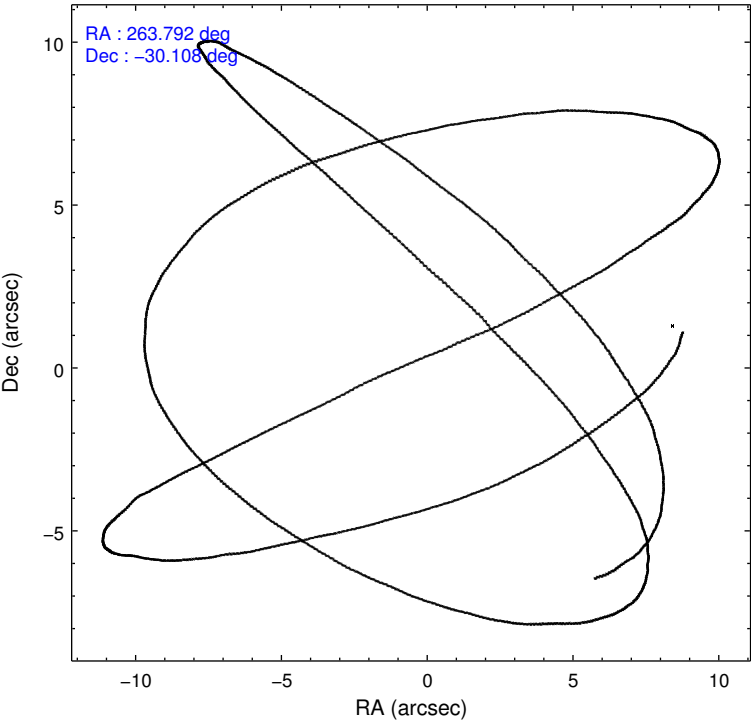
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	18242	19803	21267	20604	22844
rejected events	16185	17542	19258	18706	13618
rejected %	88%	88%	90%	90%	59%

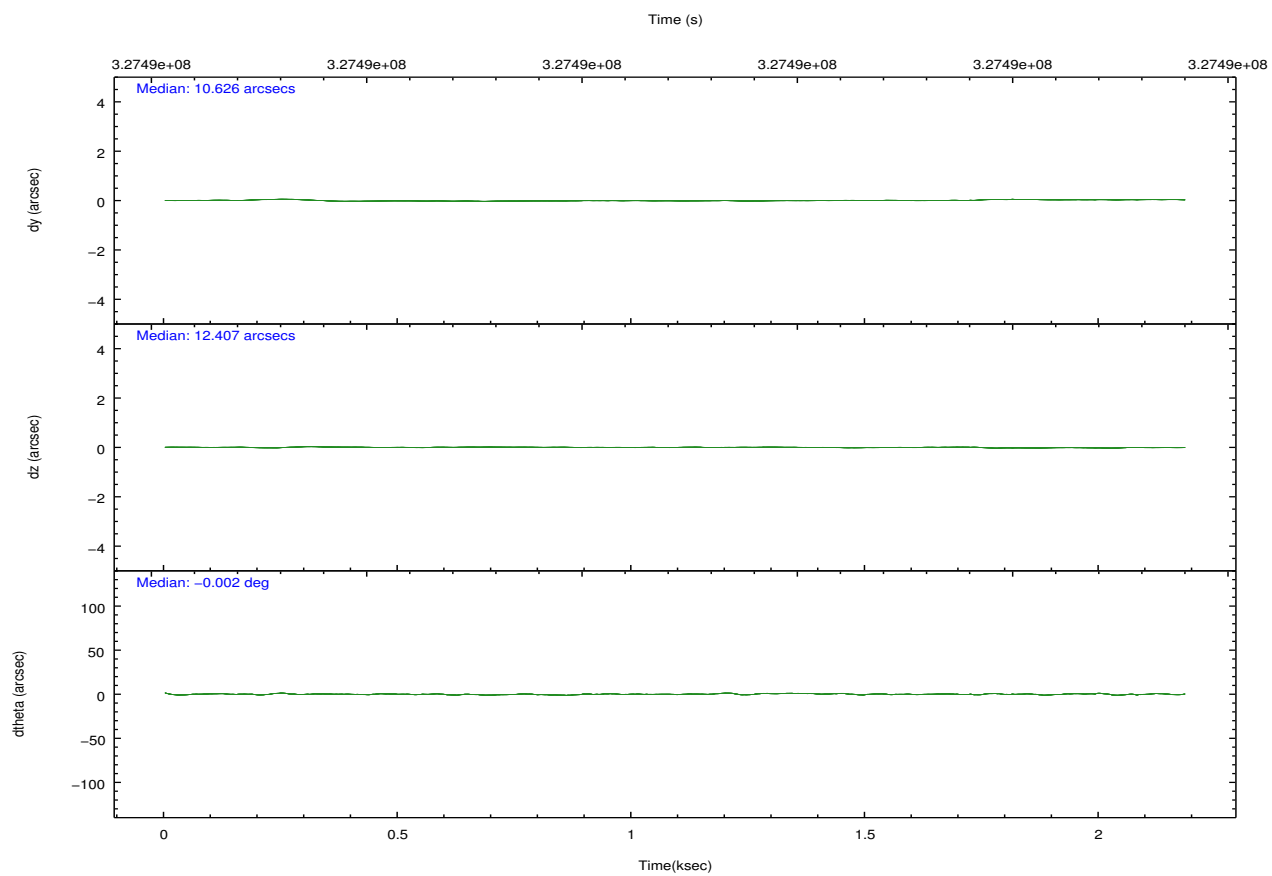
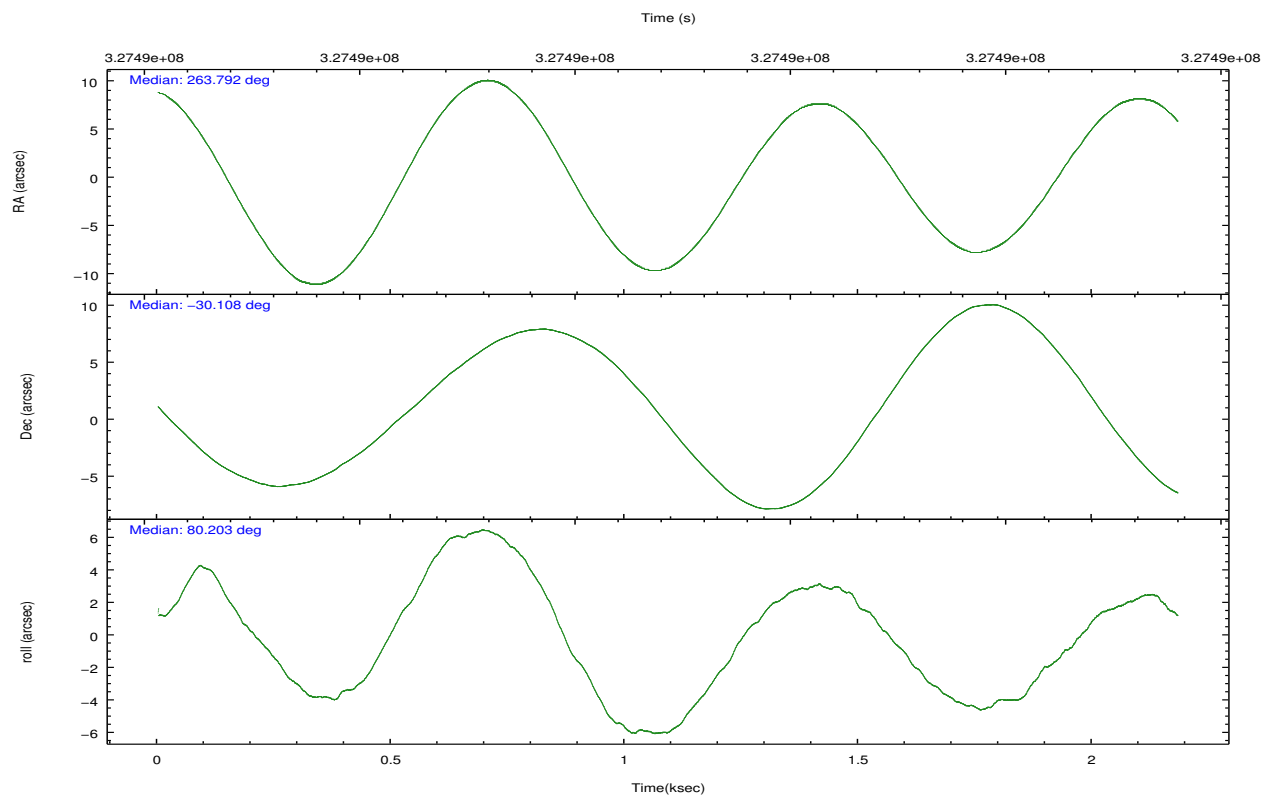
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
grade 0 events	948	1089	972	908	999
	5%	5%	4%	4%	4%
grade 1 events	10	5	16	6	32
	0%	0%	0%	0%	0%
grade 2 events	516	558	570	470	2169
	2%	2%	2%	2%	9%
grade 3 events	234	243	218	219	942
	1%	1%	1%	1%	4%
grade 4 events	214	258	219	235	976
	1%	1%	1%	1%	4%
grade 5 events	728	838	622	786	2371
	3%	4%	2%	3%	10%
grade 6 events	442	471	348	382	5449
	2%	2%	1%	1%	23%
grade 7 events	15150	16341	18302	17598	9906
	83%	82%	86%	85%	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	263.803235	263.7921291223835	CCD I2 on	Y	Y
[deg] Pointing Dec	-30.133775	-30.10807186015924	CCD I3 on	Y	Y
[deg] Pointing Roll	80.004963	80.20808892170926	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)	327492314.184000	327491937.97161	CCD S5 on	N	N
Observation start date	2008-05-18T10:04:09	2008-05-18T09:58:57	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	327494314.184000	327494447.68423	On-chip summing requested	N	N
Observation end date	2008-05-18T10:37:29	2008-05-18T10:40:47	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect





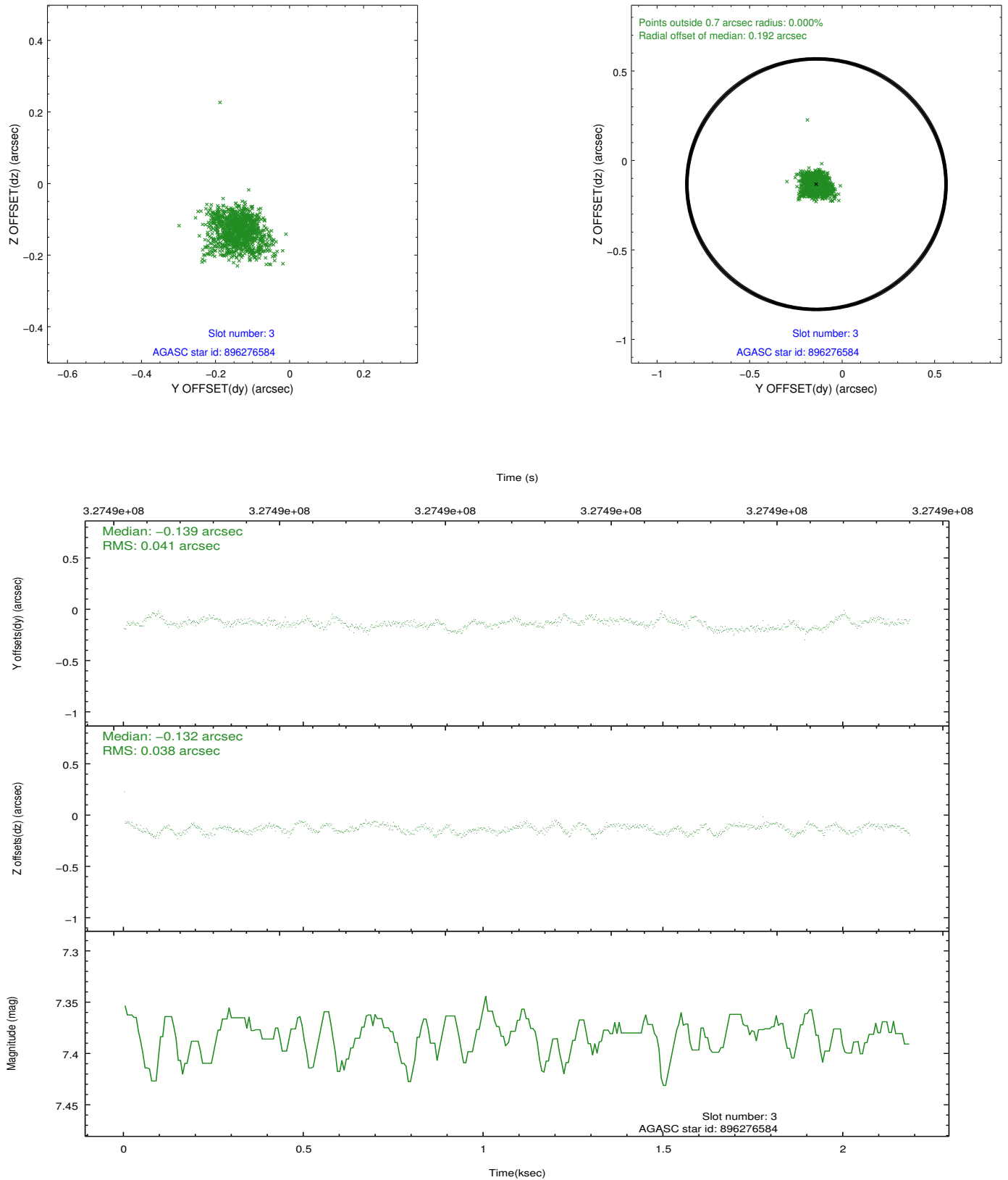
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.05	533	0.044	0.005	0.007	0.012	0.000000	0.000000	928.99	-835.94
1	FID	ACIS-I-5	7.04	533	-0.175	0.064	0.007	0.013	0.000000	0.000000	-1817.67	1060.14
2	FID	ACIS-I-6	7.05	533	0.039	0.002	0.007	0.011	0.000000	0.000000	391.30	1707.94
3	GUIDE	896276584	7.38	1065	-0.139	-0.132	0.059	0.095	263.264332	-29.650845	1415.69	1961.72
4	GUIDE	966658072	8.60	1066	0.002	-0.232	0.079	0.127	262.985614	-30.401203	-1396.34	2333.22
5	GUIDE	966788496	8.61	1066	0.123	0.166	0.092	0.144	264.053541	-30.541810	-1313.55	-1016.98
6	GUIDE	966791064	7.77	1066	0.058	0.083	0.060	0.095	263.920275	-30.338943	-665.27	-487.08
7	GUIDE	966792448	9.22	1064	-0.042	0.119	0.104	0.176	264.302983	-30.719022	-1810.05	-1889.83

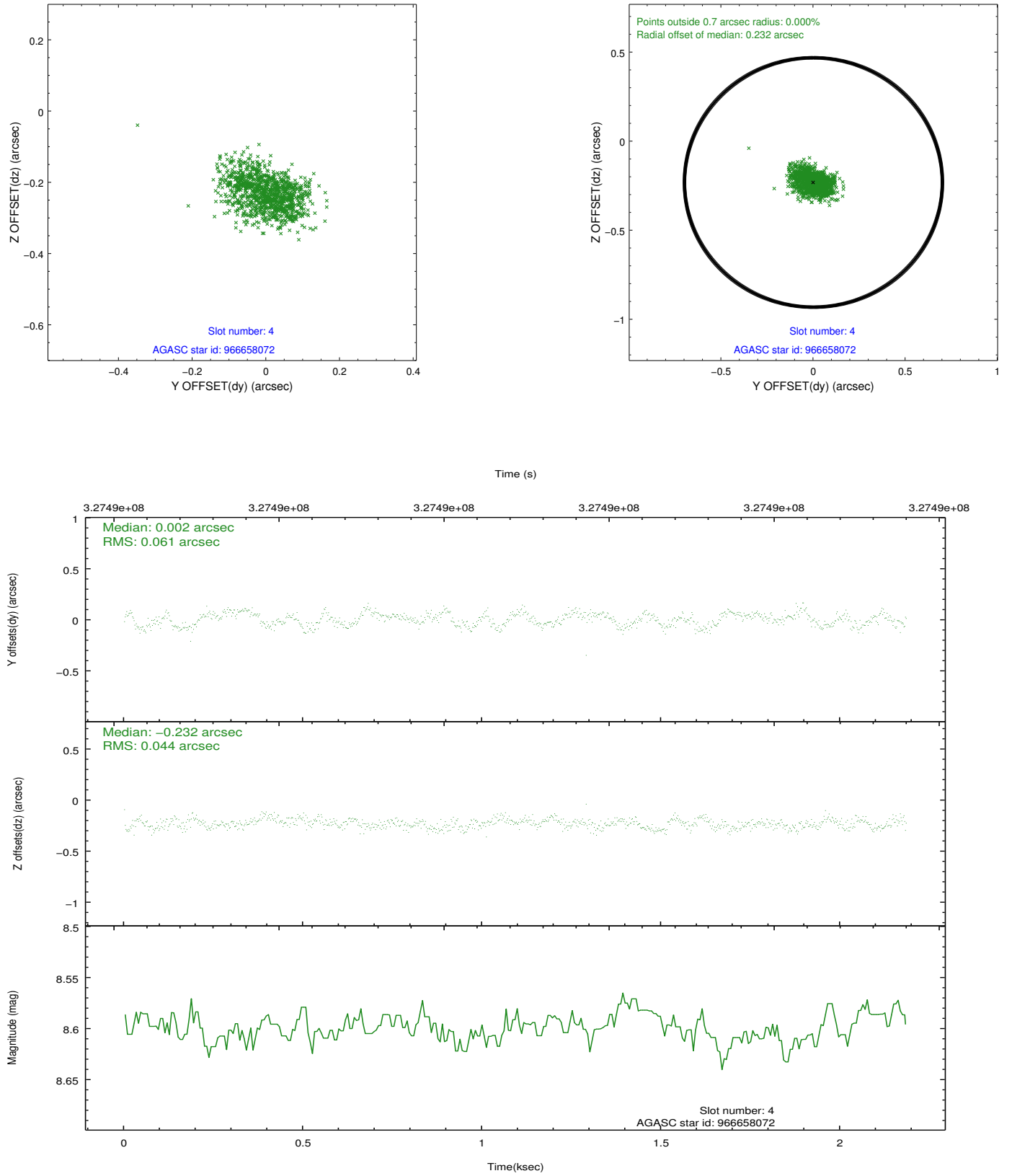


## 2.4 Star Slots

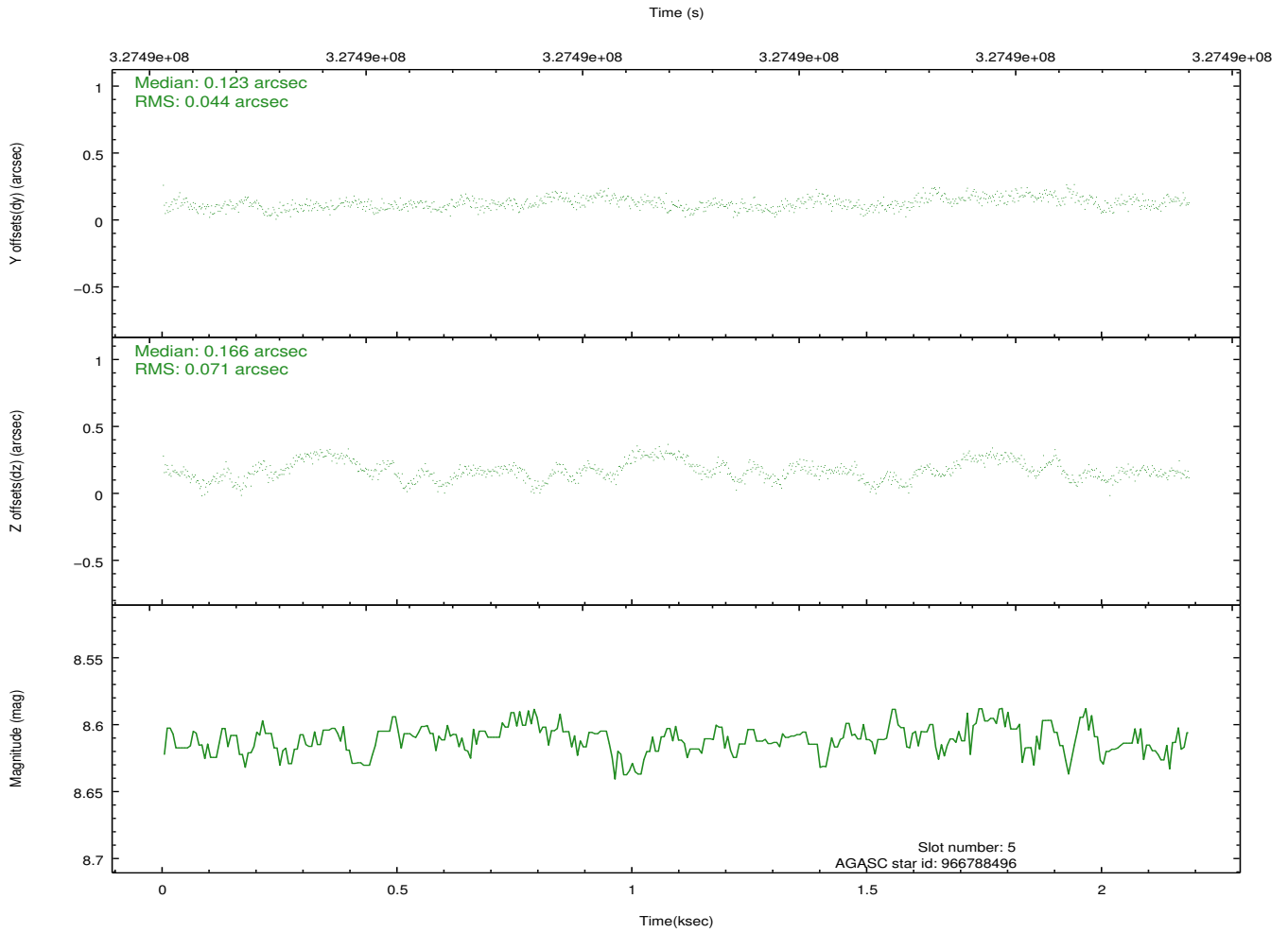
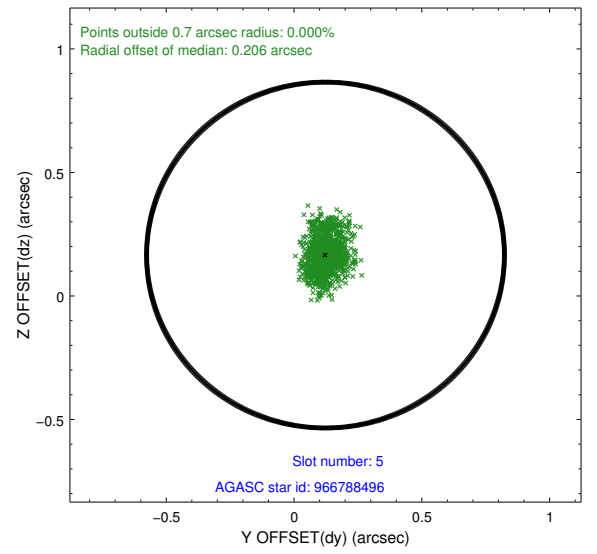
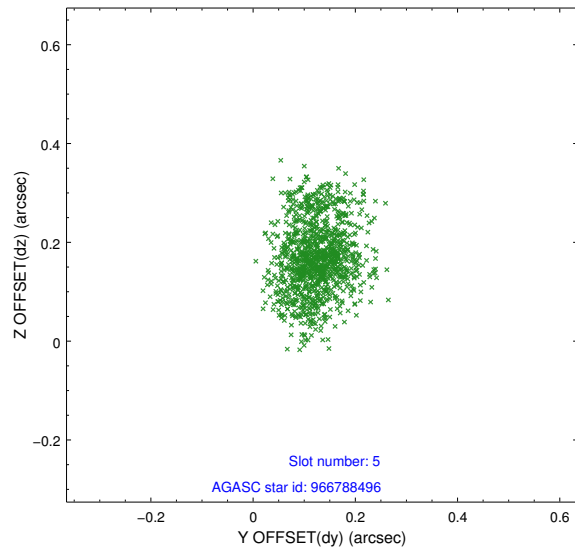
### 2.4.1 Slot 3



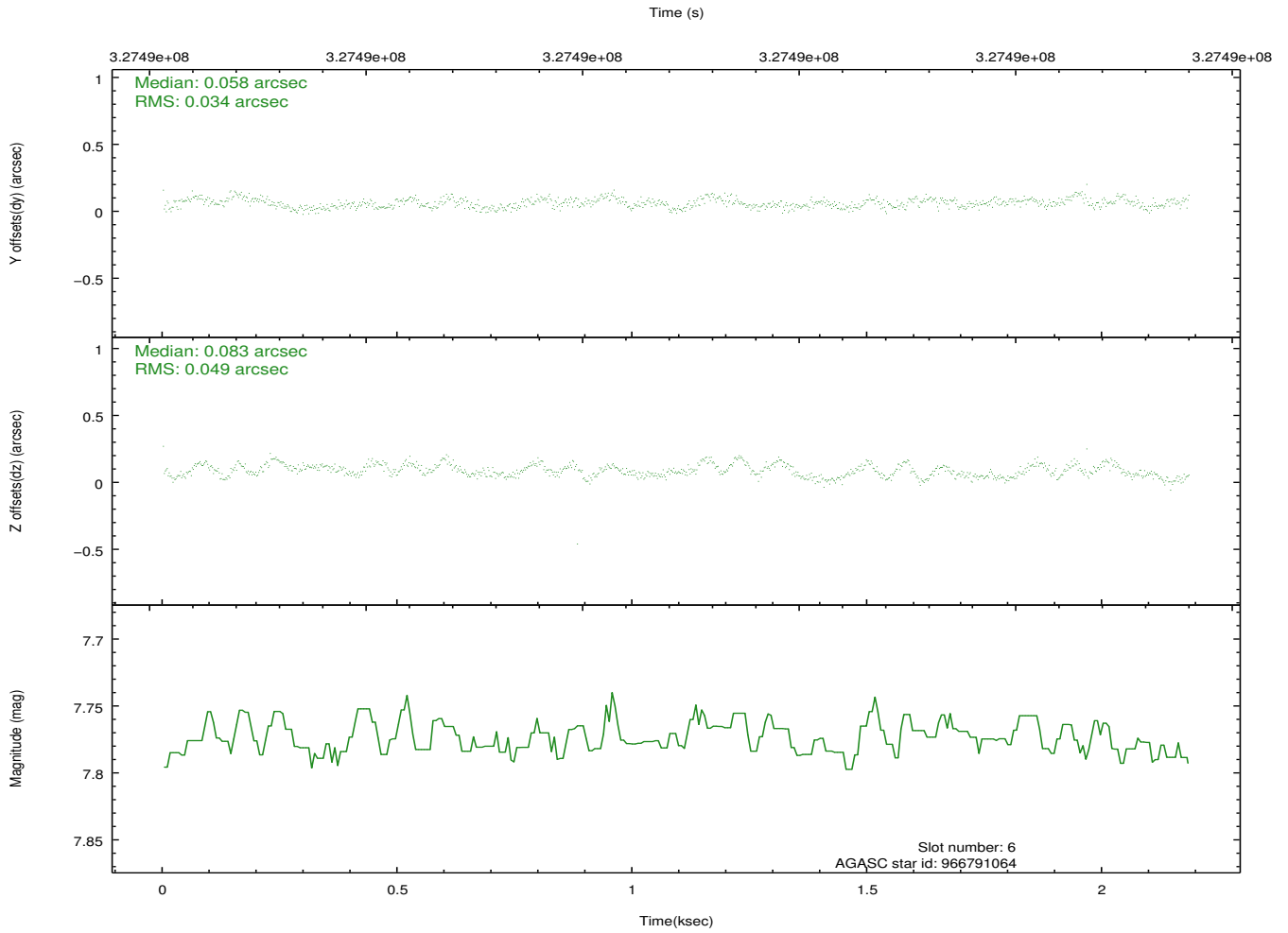
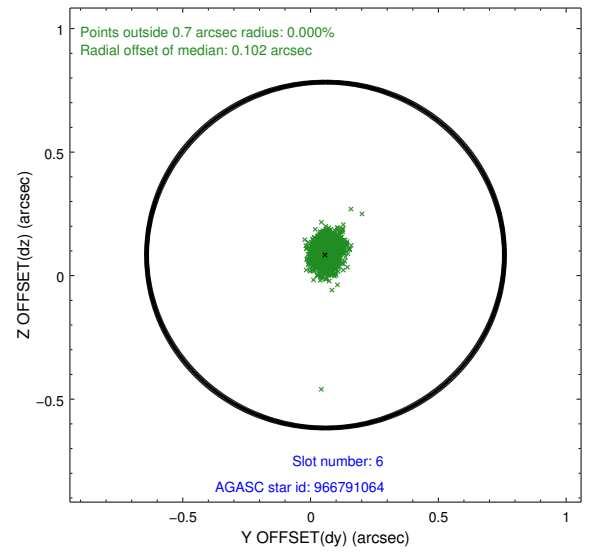
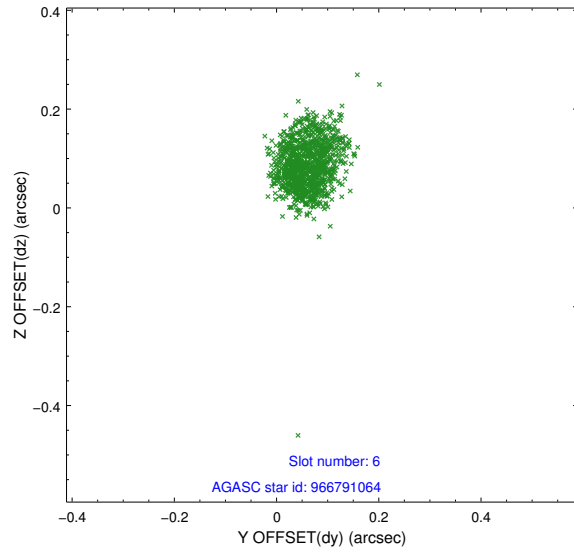
## 2.4.2 Slot 4



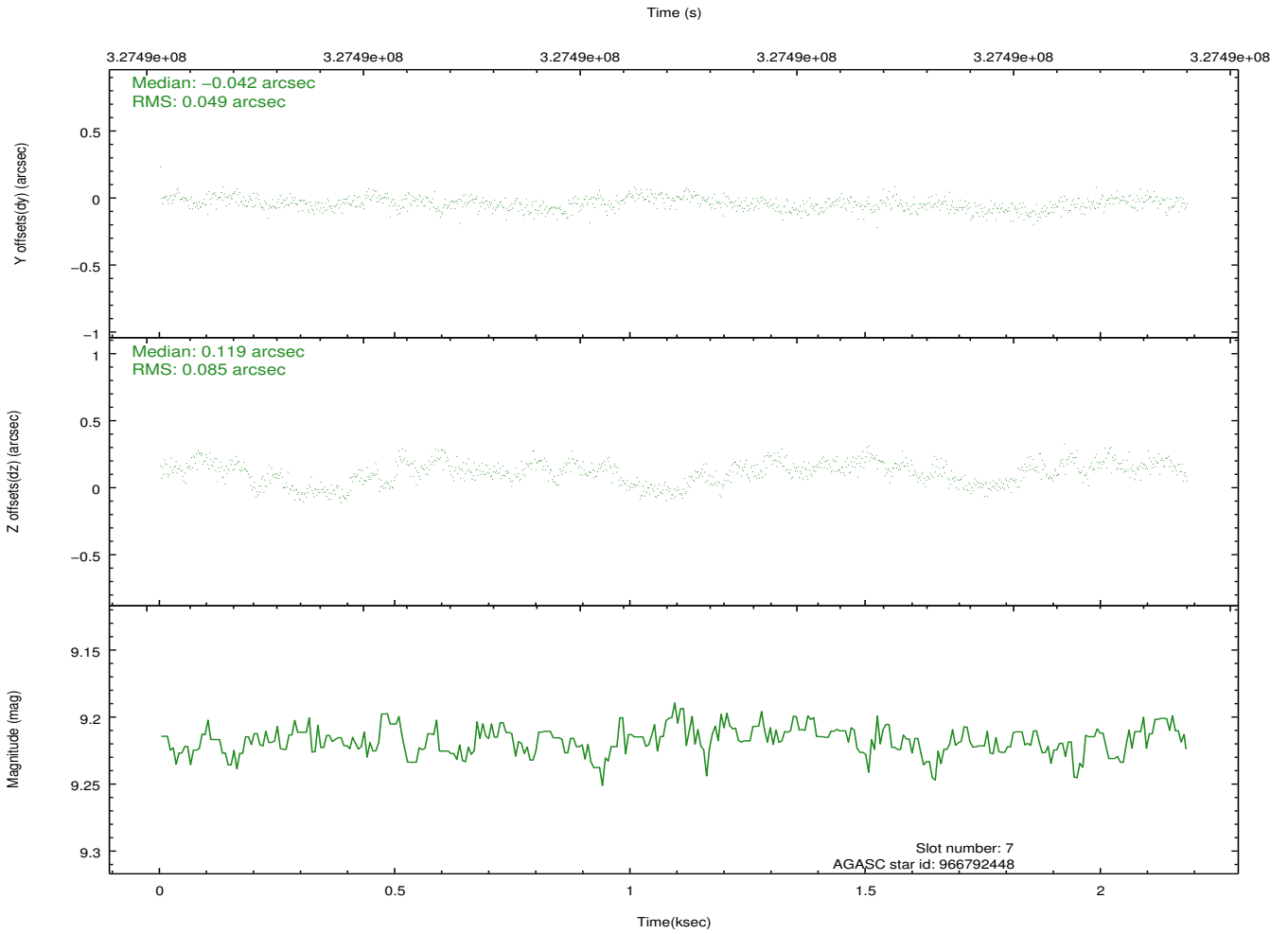
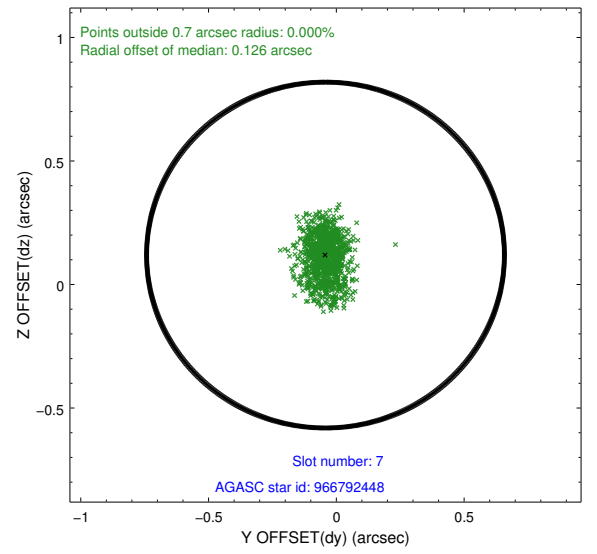
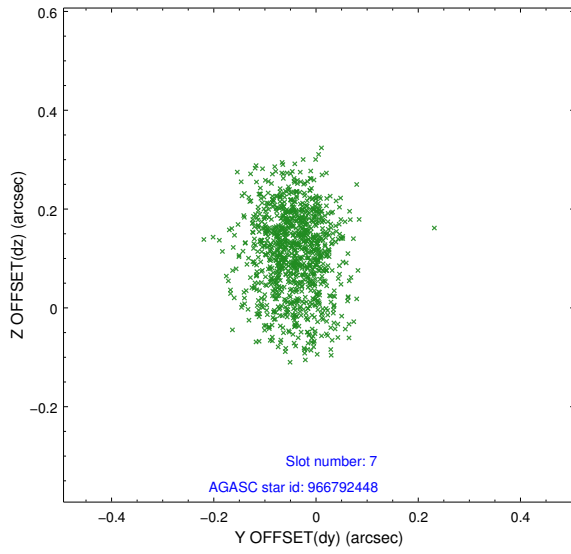
### 2.4.3 Slot 5



## 2.4.4 Slot 6

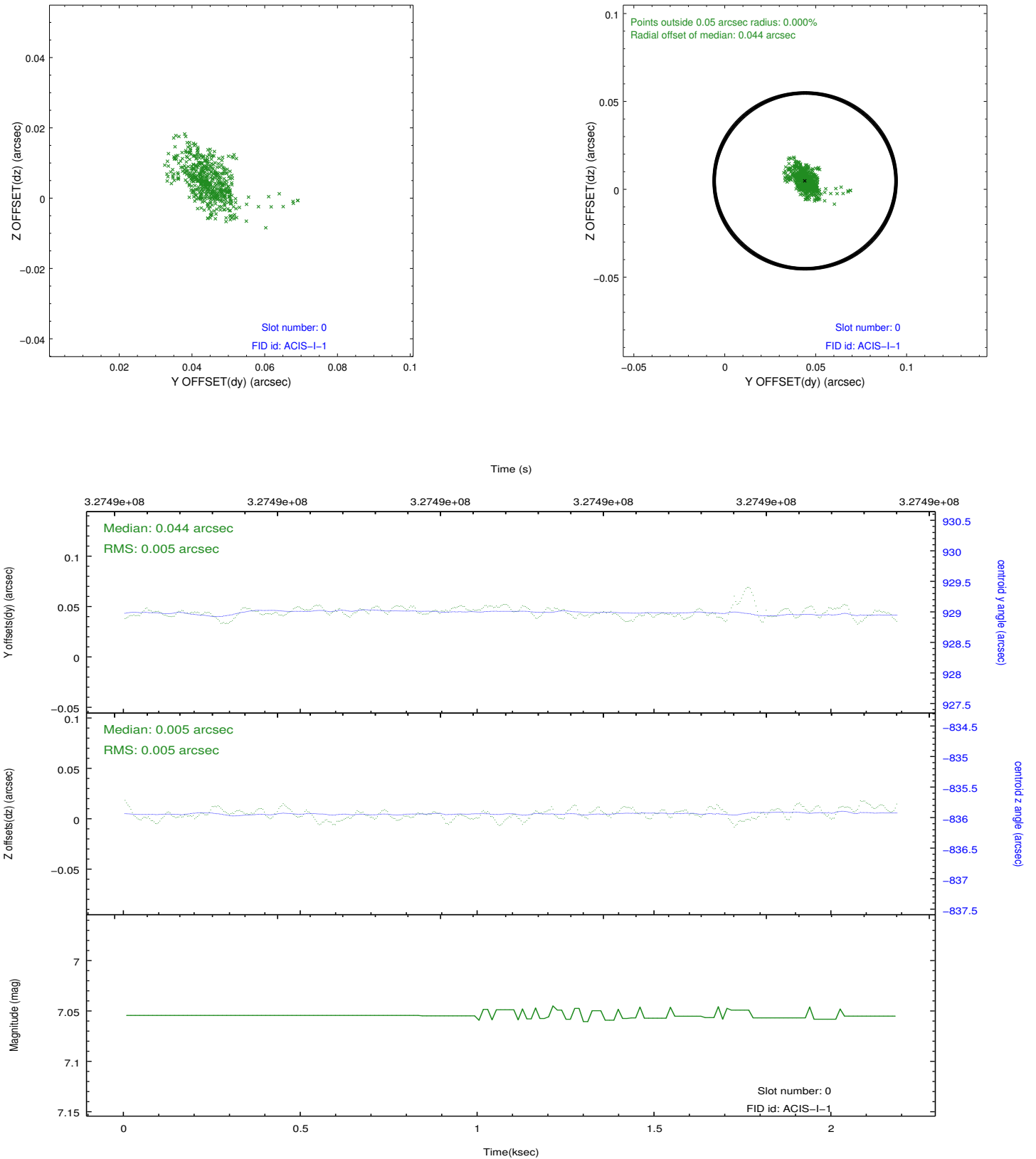


## 2.4.5 Slot 7

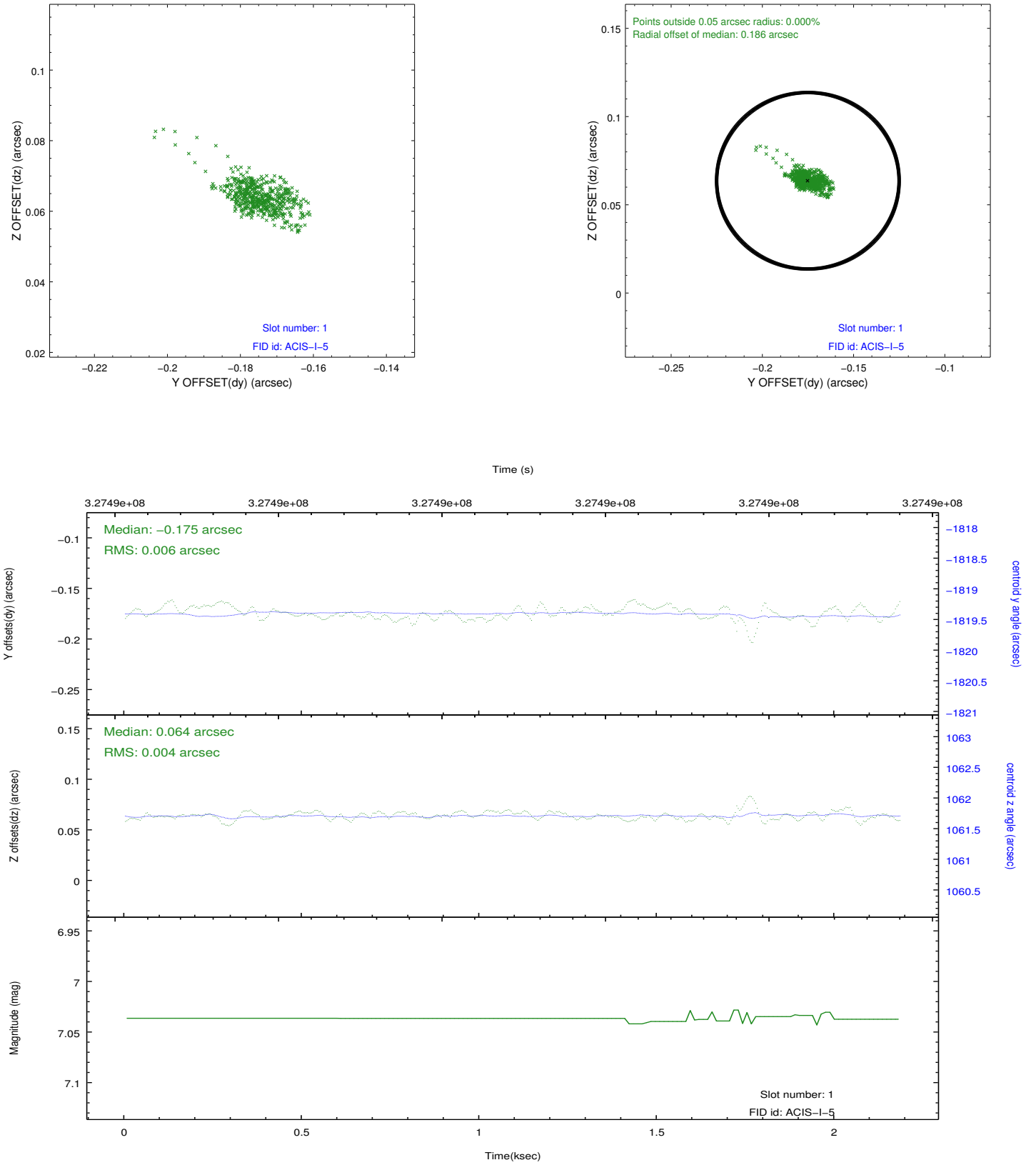


## 2.5 FID Slots

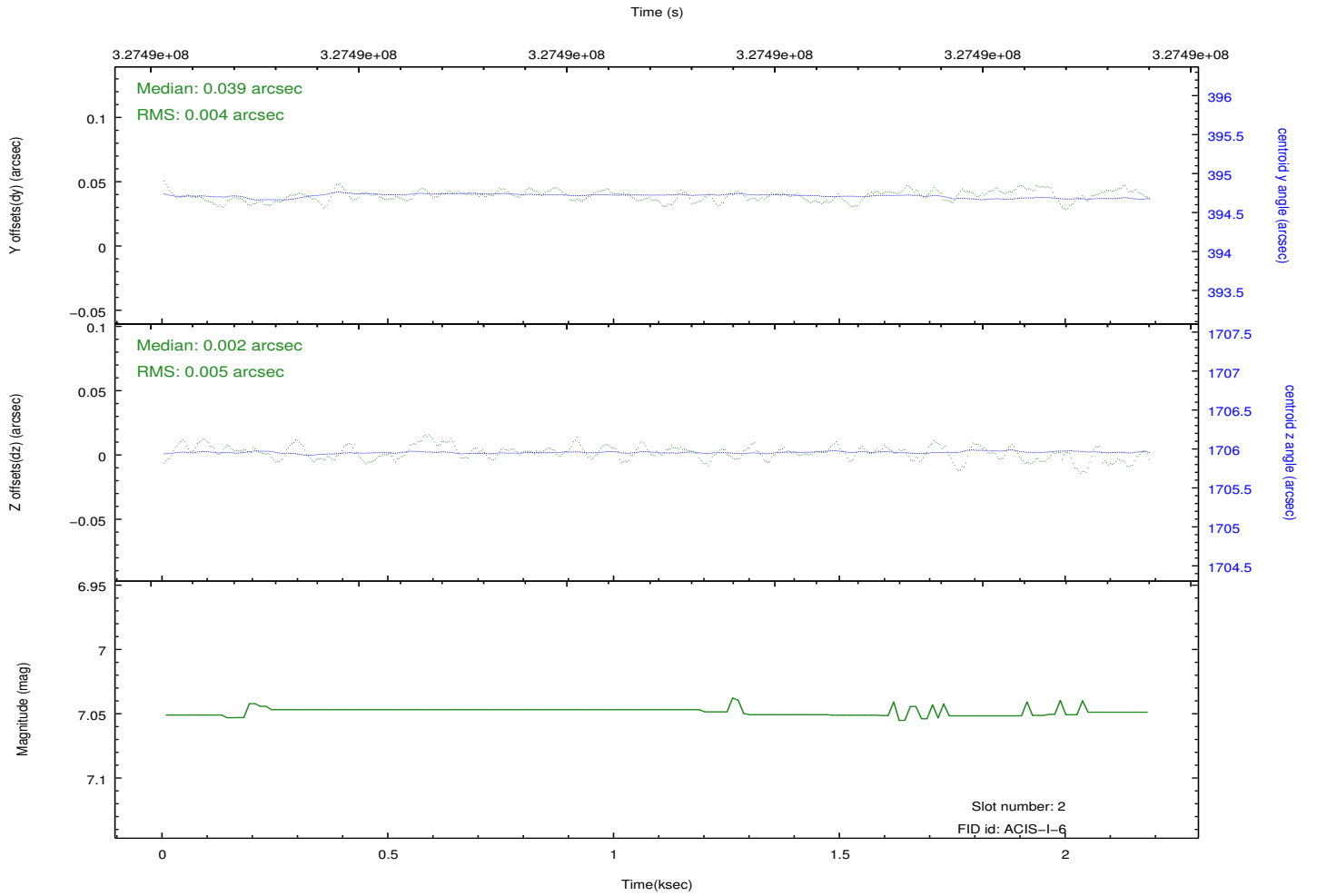
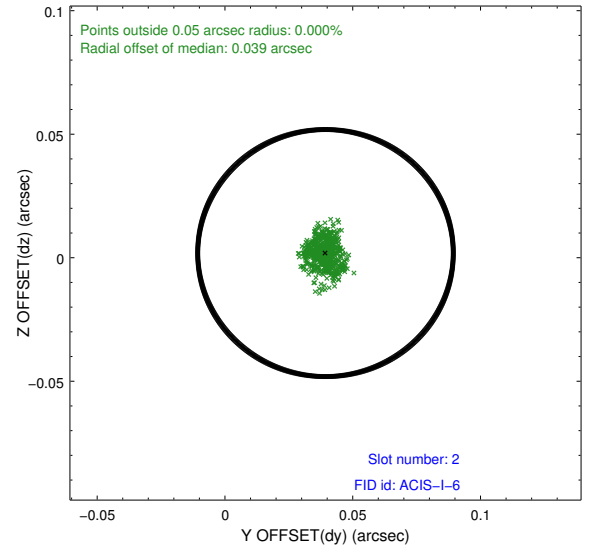
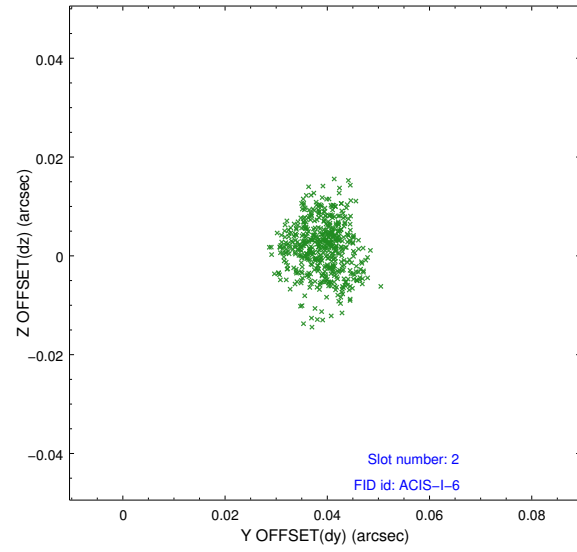
### 2.5.1 Slot 0



## 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	2.18240001

### A.2 Comments