

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 8654 - L2 Version 2  
Chandra X-Ray Center

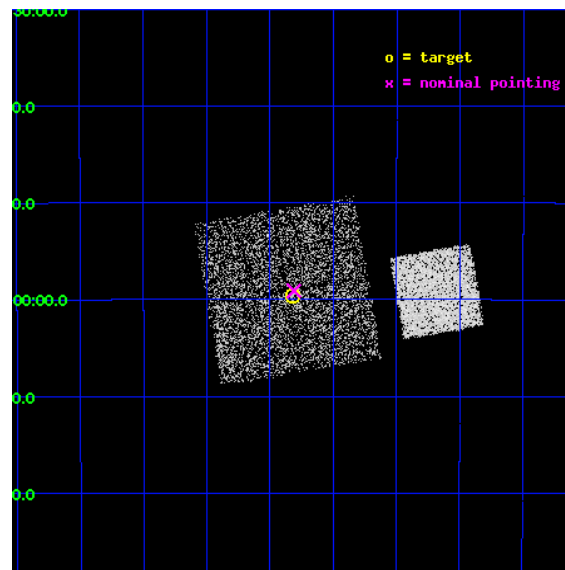
L2 Processing Date : May 14 2012

## Contents

<b>1</b>	<b>Front</b>	<b>2</b>
<b>2</b>	<b>OBI</b>	<b>3</b>
2.1	OBI . . . . .	3
2.1.1	Images . . . . .	3
2.1.2	Bias . . . . .	3
2.1.3	Parameters . . . . .	4
2.1.4	Events . . . . .	4
2.2	Compared Parameters . . . . .	5
2.3	Aspect . . . . .	6
2.4	Star Slots . . . . .	9
2.4.1	Slot 3 . . . . .	9
2.4.2	Slot 4 . . . . .	10
2.4.3	Slot 5 . . . . .	11
2.4.4	Slot 6 . . . . .	12
2.4.5	Slot 7 . . . . .	13
2.5	FID Slots . . . . .	14
2.5.1	Slot 0 . . . . .	14
2.5.2	Slot 1 . . . . .	15
2.5.3	Slot 2 . . . . .	16
<b>A</b>	<b>Summary</b>	<b>17</b>
A.1	Status . . . . .	17
A.2	Comments . . . . .	17

# 1 Front

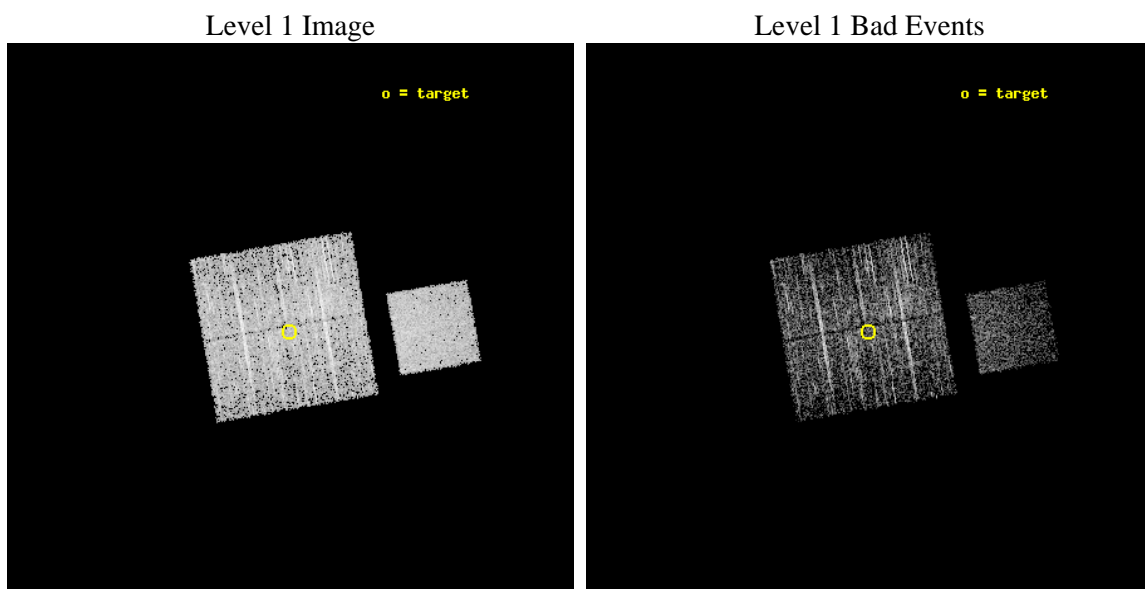
seq_num	400705	Sequence number
obs_id	8654	Observation id
title	The Galactic Bulge Survey: categorising the plethora of faint X-ray sources in the Galactic Bulge	Proposal title
observer	Prof Mariano Mendez	Principal investigator
object	GBSGTO2	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	265.32893	Observer's specified target RA [deg]
dec_targ	-27.993418	Observer's specified target Dec [deg]
ra_nom	265.32772688994	Nominal RA [deg]
dec_nom	-27.985233273751	Nominal Dec [deg]
roll_nom	80.208134238746	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	15841	Number of level 2 events



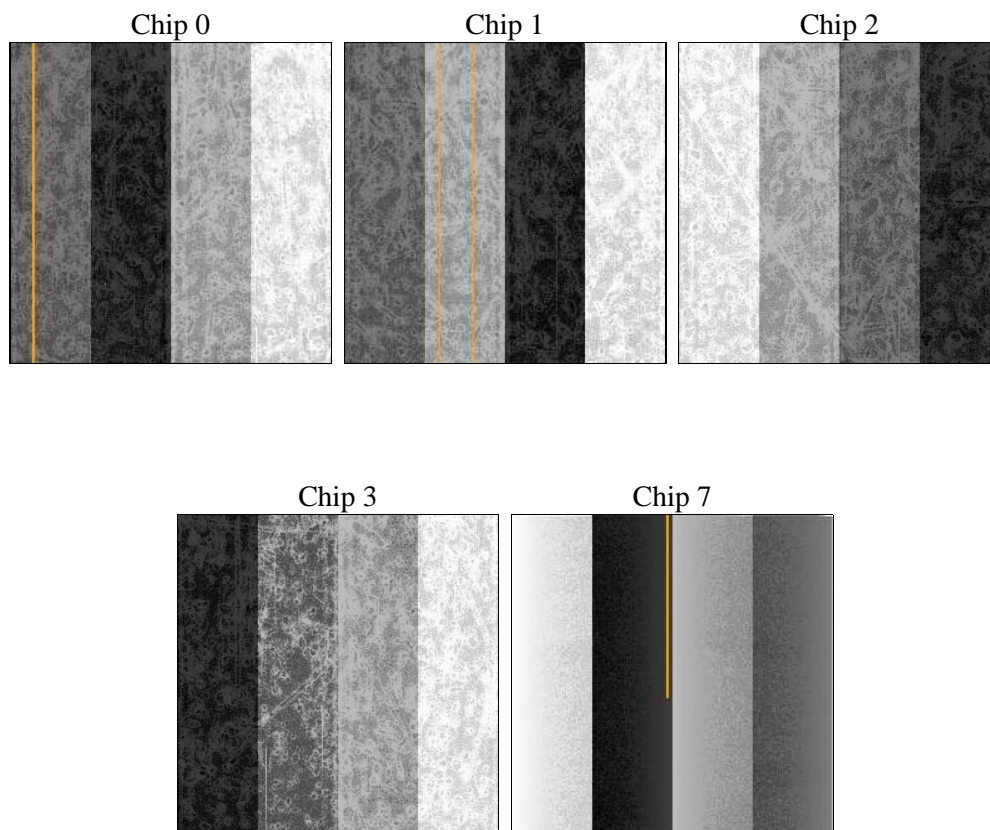
## 2 OBI

### 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	2012-05-14T23:52:57	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	102759	Number of level 1 events

### 2.1.4 Events

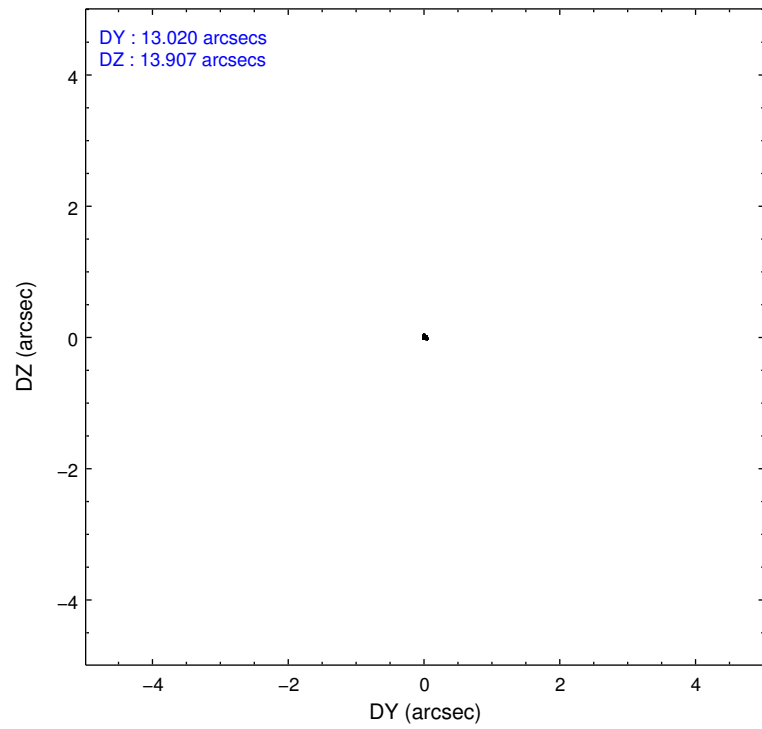
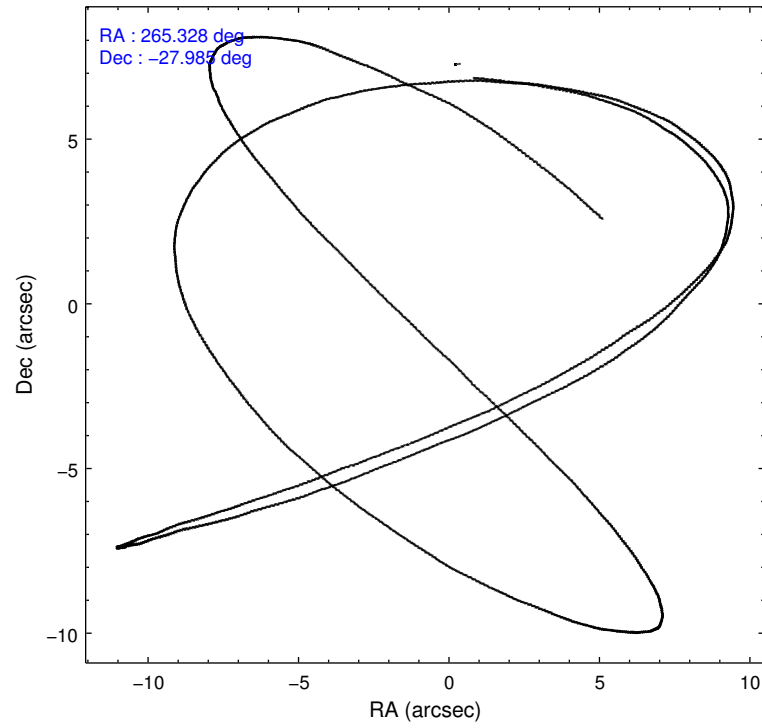
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	19015	18735	23573	18858	22578
rejected events	17053	16441	21487	16965	13347
rejected %	89%	87%	91%	89%	59%

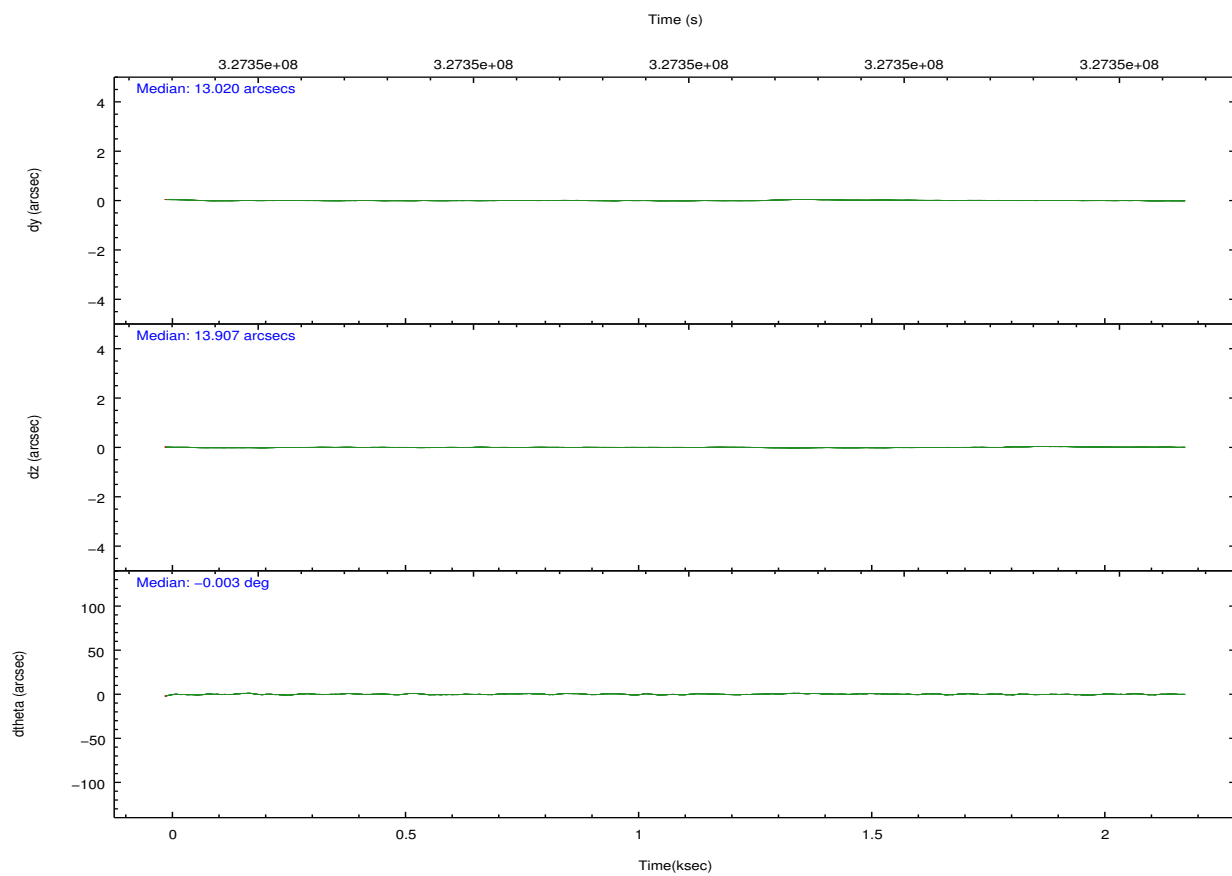
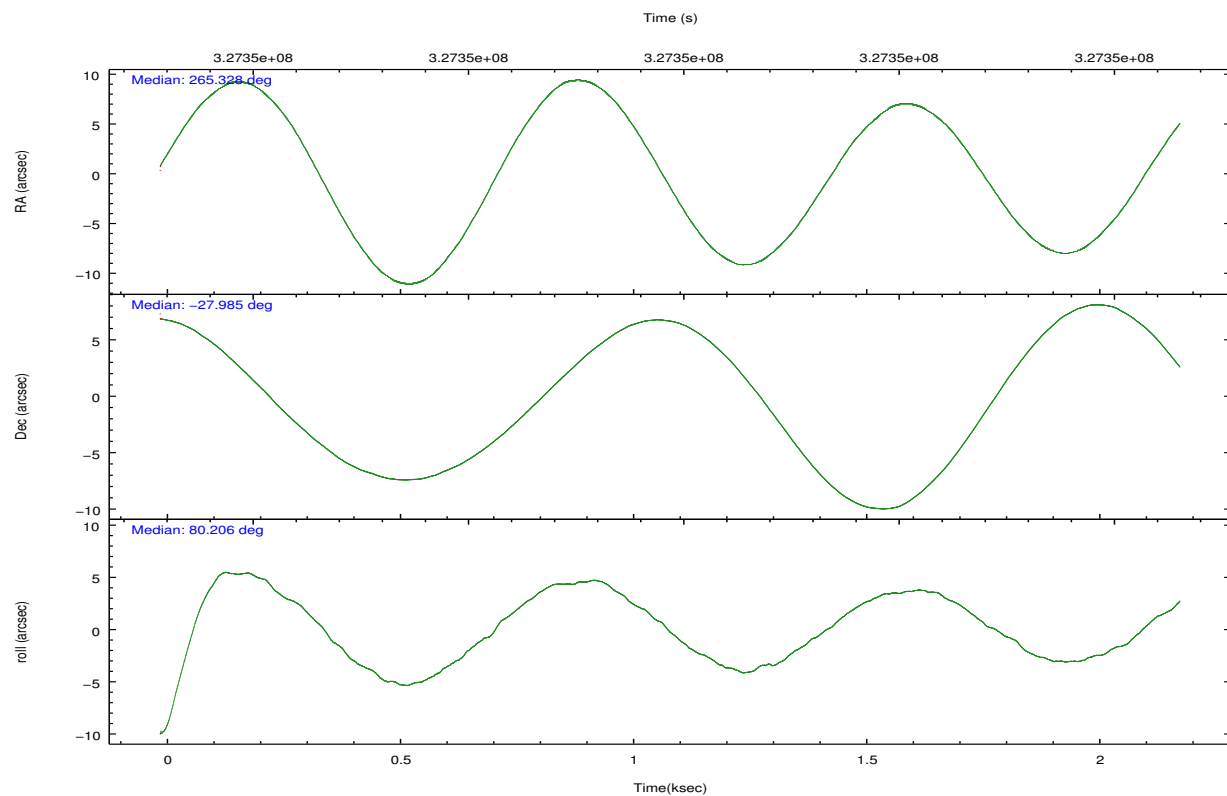
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
grade 0 events	903	1066	977	911	1004
	4%	5%	4%	4%	4%
grade 1 events	15	15	13	14	29
	0%	0%	0%	0%	0%
grade 2 events	485	572	560	418	2193
	2%	3%	2%	2%	9%
grade 3 events	264	281	222	219	1002
	1%	1%	0%	1%	4%
grade 4 events	228	235	256	234	985
	1%	1%	1%	1%	4%
grade 5 events	688	844	690	846	2374
	3%	4%	2%	4%	10%
grade 6 events	414	482	397	402	5413
	2%	2%	1%	2%	23%
grade 7 events	16018	15240	20458	15814	9578
	84%	81%	86%	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	265.338604	265.3277268899366	CCD I2 on	Y	Y
[deg] Pointing Dec	-28.011169	-27.98523327375085	CCD I3 on	Y	Y
[deg] Pointing Roll	80.004543	80.2081342387459	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)	327347053.184000	327346677.52703	CCD S5 on	N	N
Observation start date	2008-05-16T17:43:08	2008-05-16T17:37:57	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	327349053.184000	327349187.23965	On-chip summing requested	N	N
Observation end date	2008-05-16T18:16:28	2008-05-16T18:19:47	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect





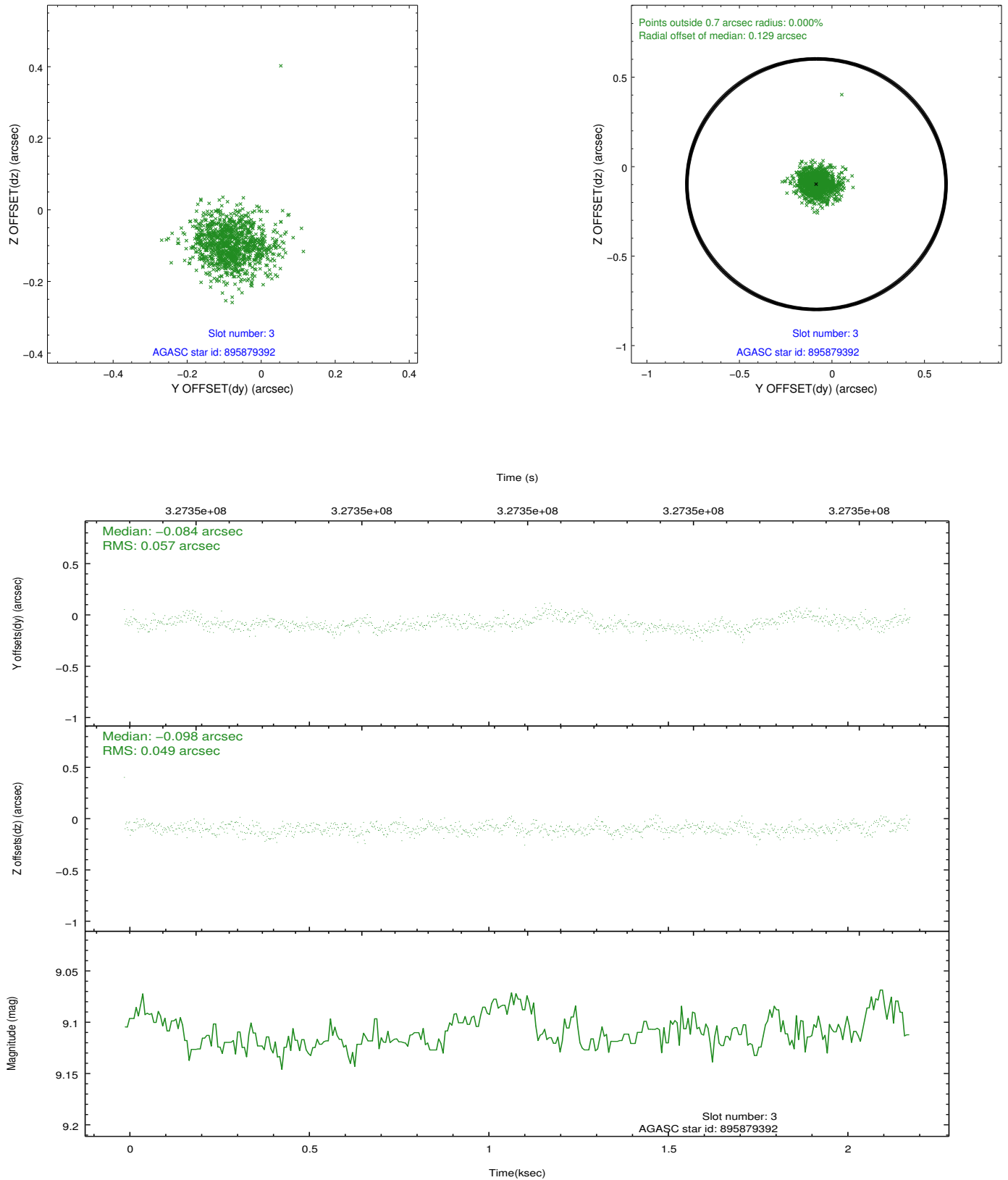
### Slot Statistics

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	534	0.006	0.046	0.006	0.010	0.000000	0.000000	926.51	-837.42
1	FID	ACIS-I-5	7.05	534	-0.173	0.030	0.006	0.011	0.000000	0.000000	-1820.15	1058.53
2	FID	ACIS-I-6	7.06	534	0.076	-0.006	0.006	0.010	0.000000	0.000000	388.85	1706.40
3	GUIDE	895879392	9.11	1068	-0.084	-0.098	0.079	0.131	264.792874	-27.441876	1711.31	2072.19
4	GUIDE	895879840	7.20	1068	-0.274	-0.069	0.052	0.086	265.218397	-27.395778	2115.59	765.02
5	GUIDE	896402272	7.60	1068	0.115	0.126	0.056	0.094	265.637294	-28.313189	-905.94	-1120.41
6	GUIDE	896404568	7.85	1068	0.107	0.119	0.066	0.099	265.687293	-28.431080	-1299.87	-1350.80
7	GUIDE	896405616	7.83	1067	0.138	-0.082	0.057	0.096	264.752771	-28.412560	-1751.83	1574.30

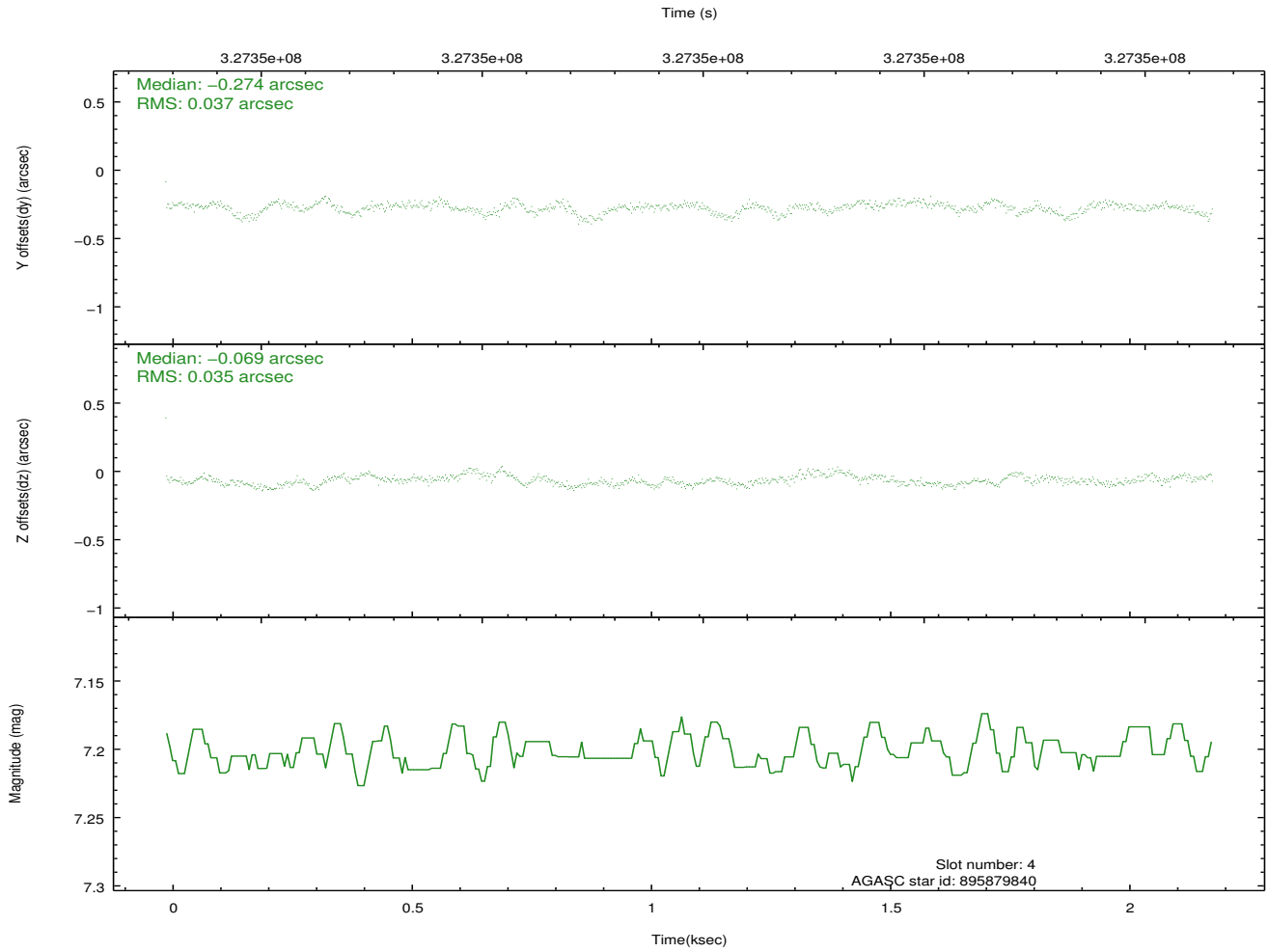
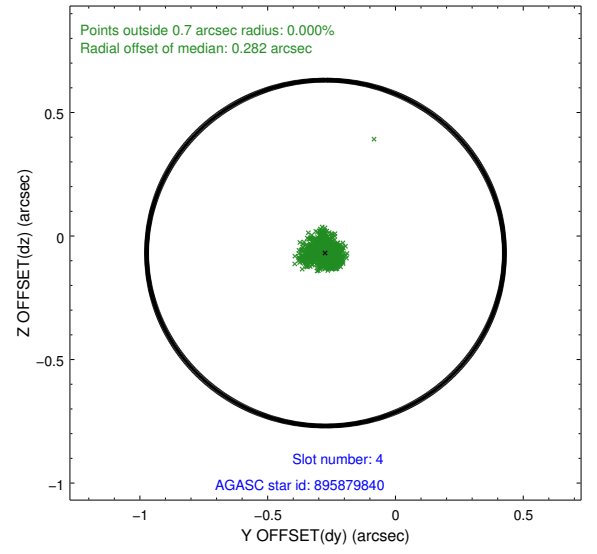
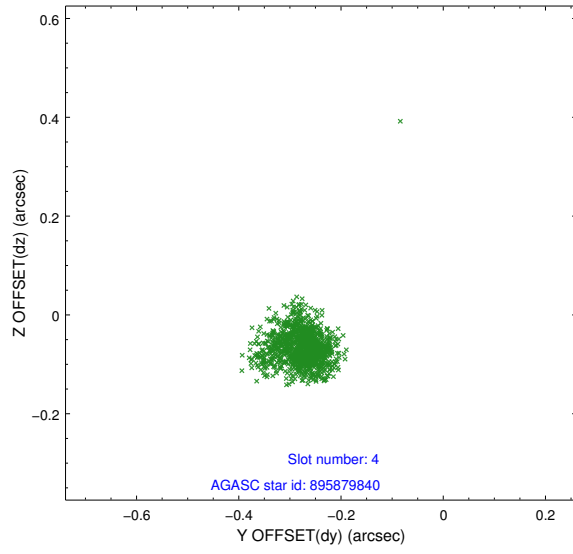


## 2.4 Star Slots

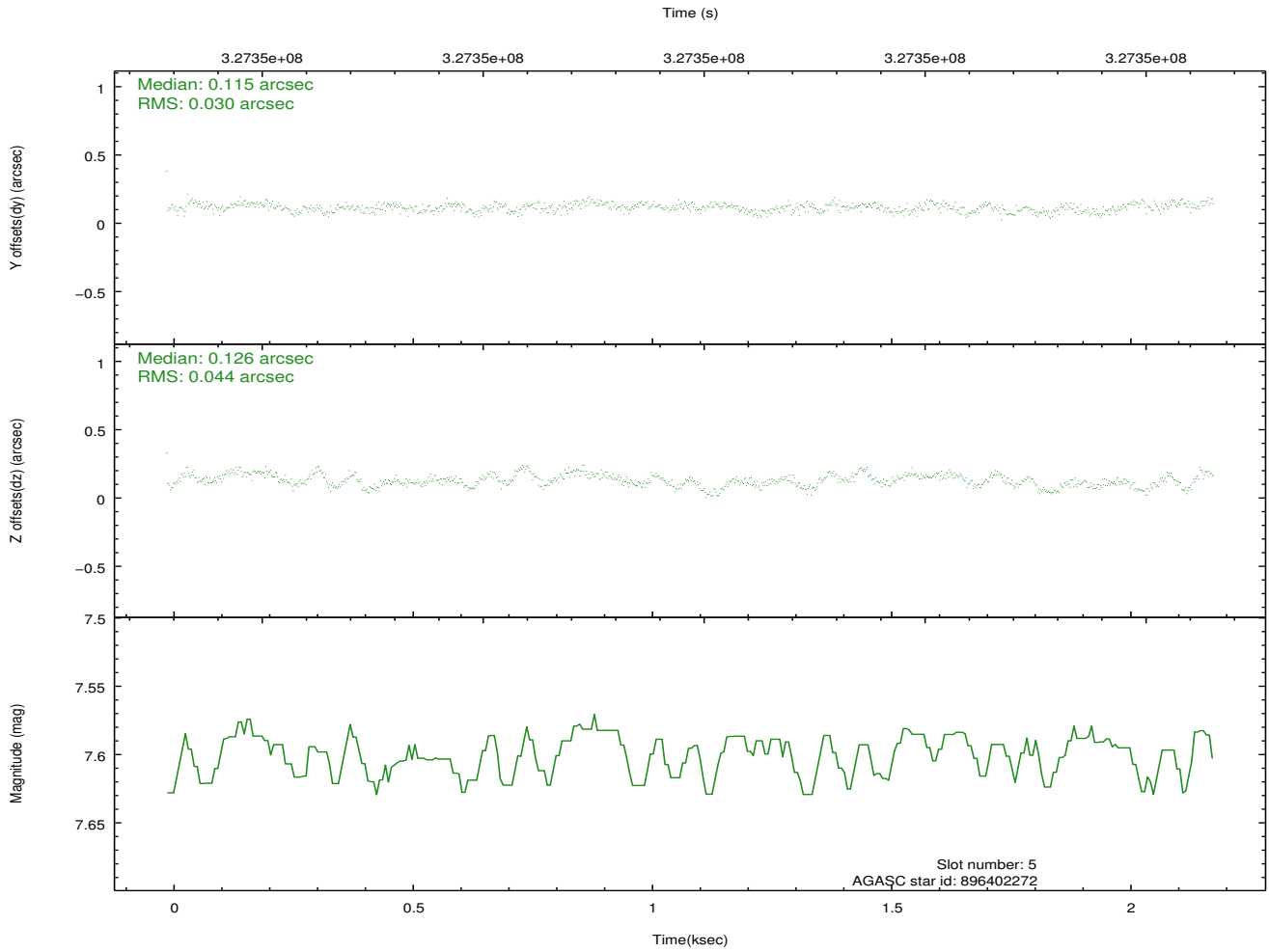
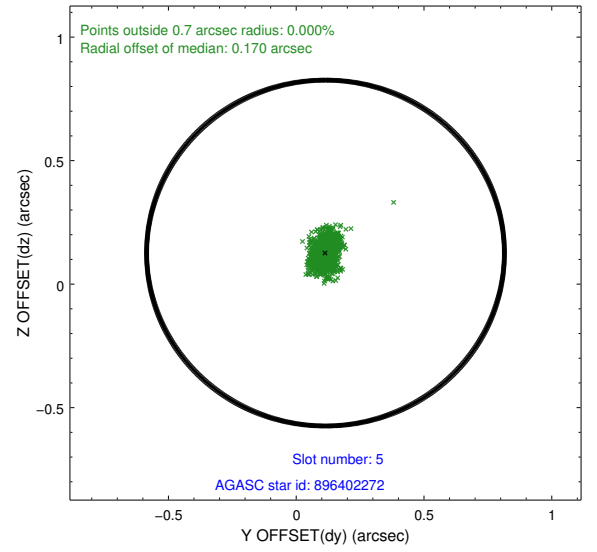
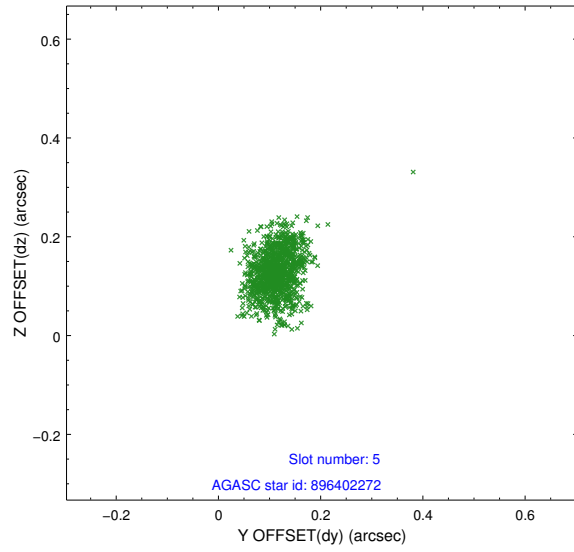
### 2.4.1 Slot 3



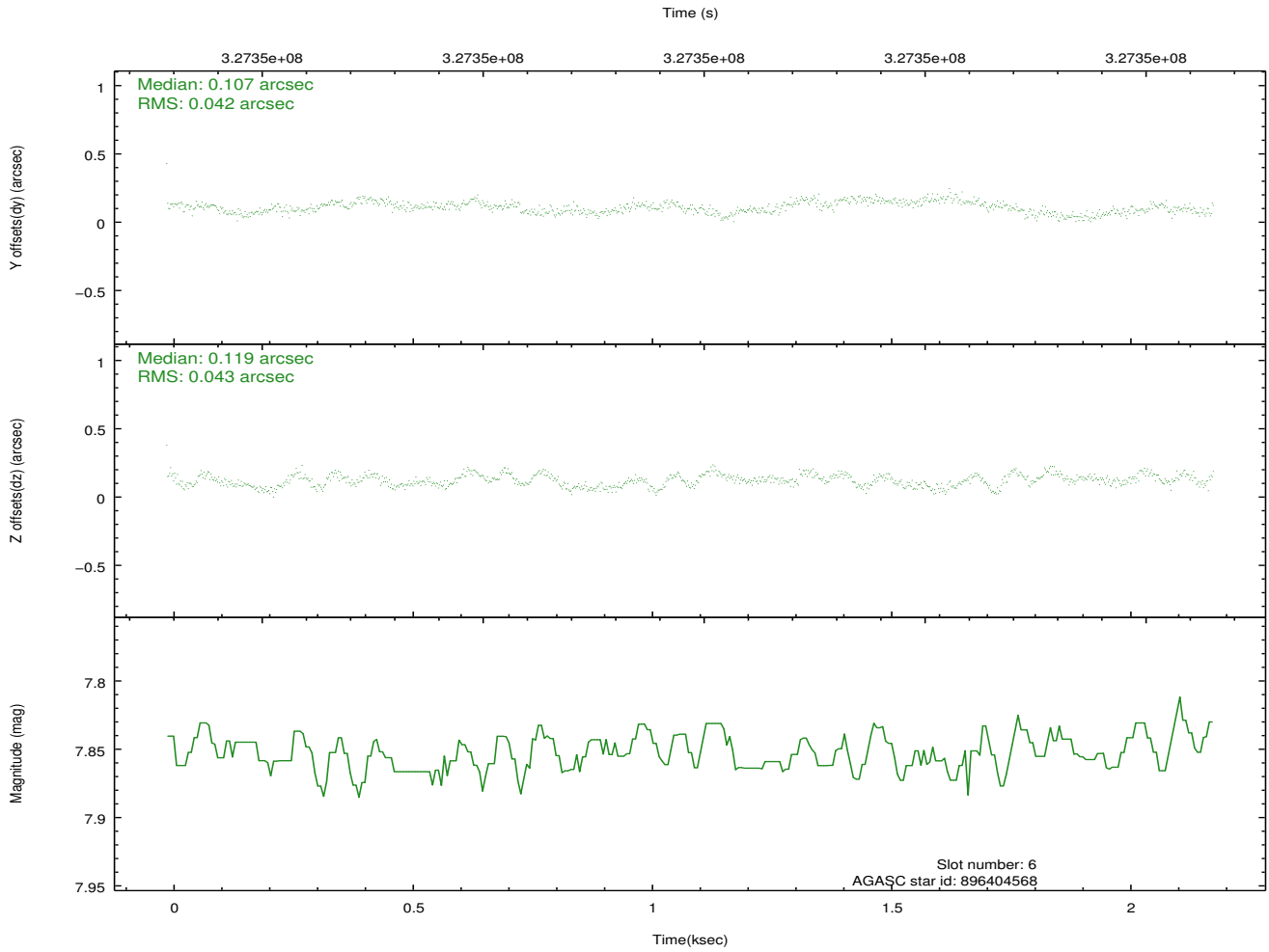
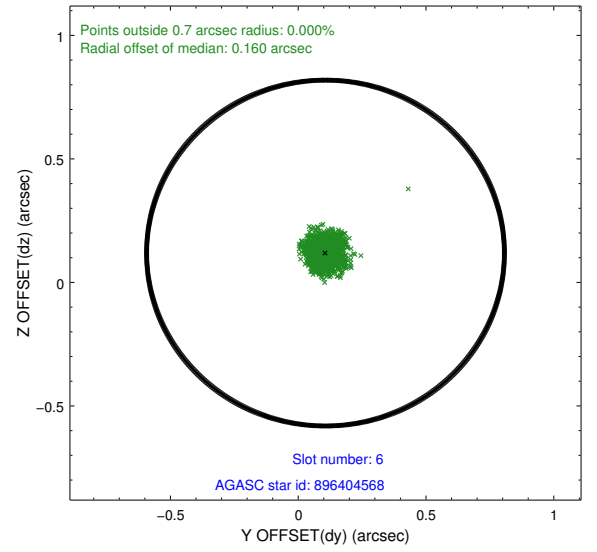
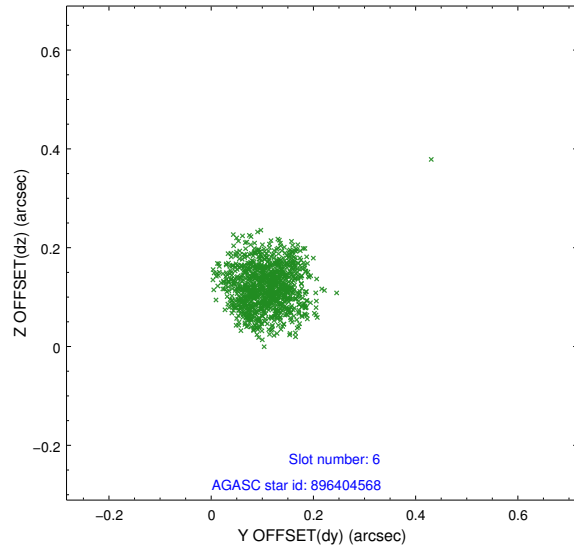
## 2.4.2 Slot 4



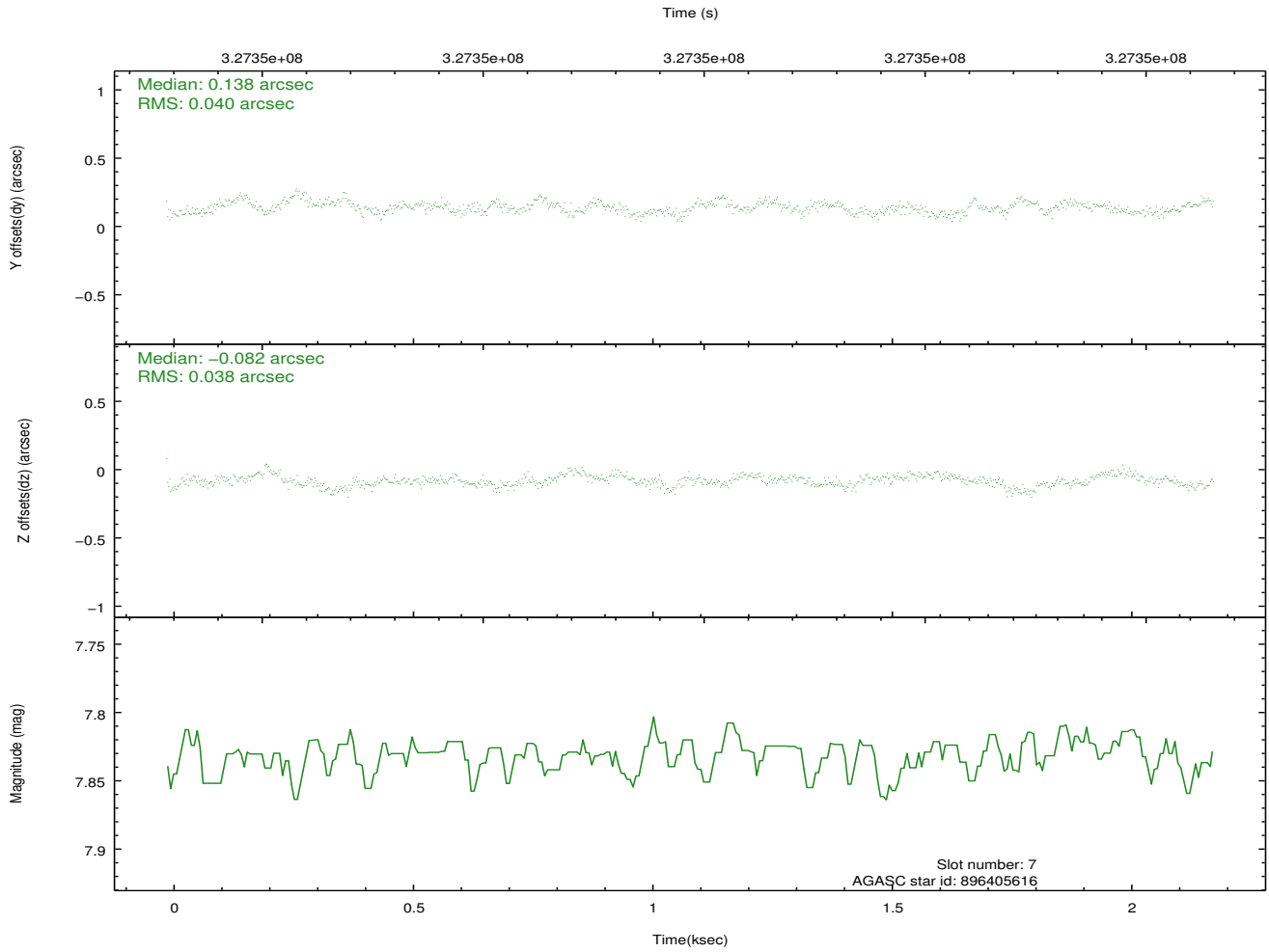
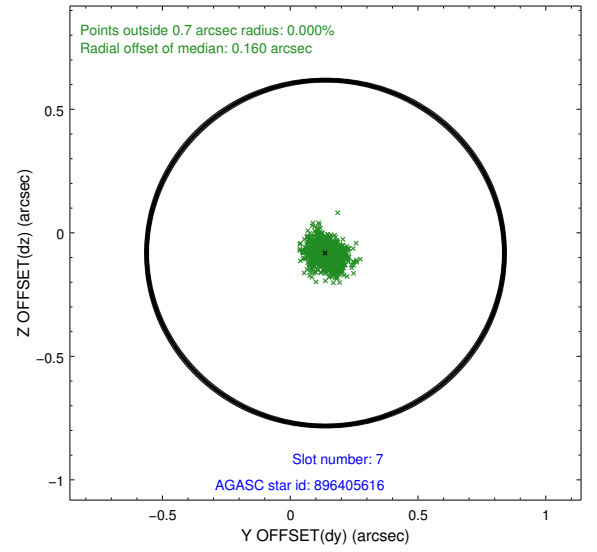
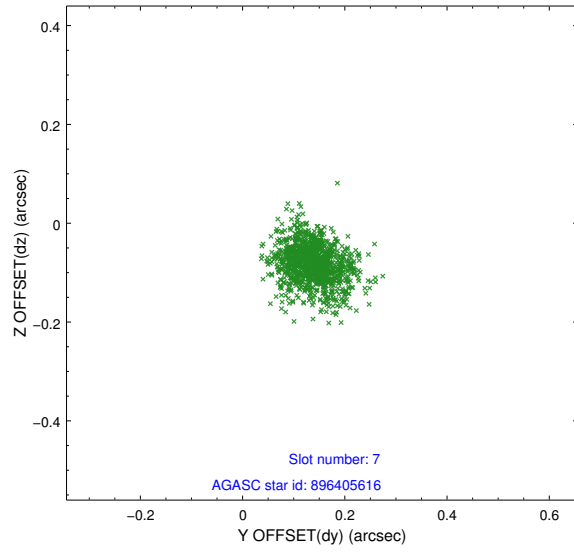
### 2.4.3 Slot 5



## 2.4.4 Slot 6

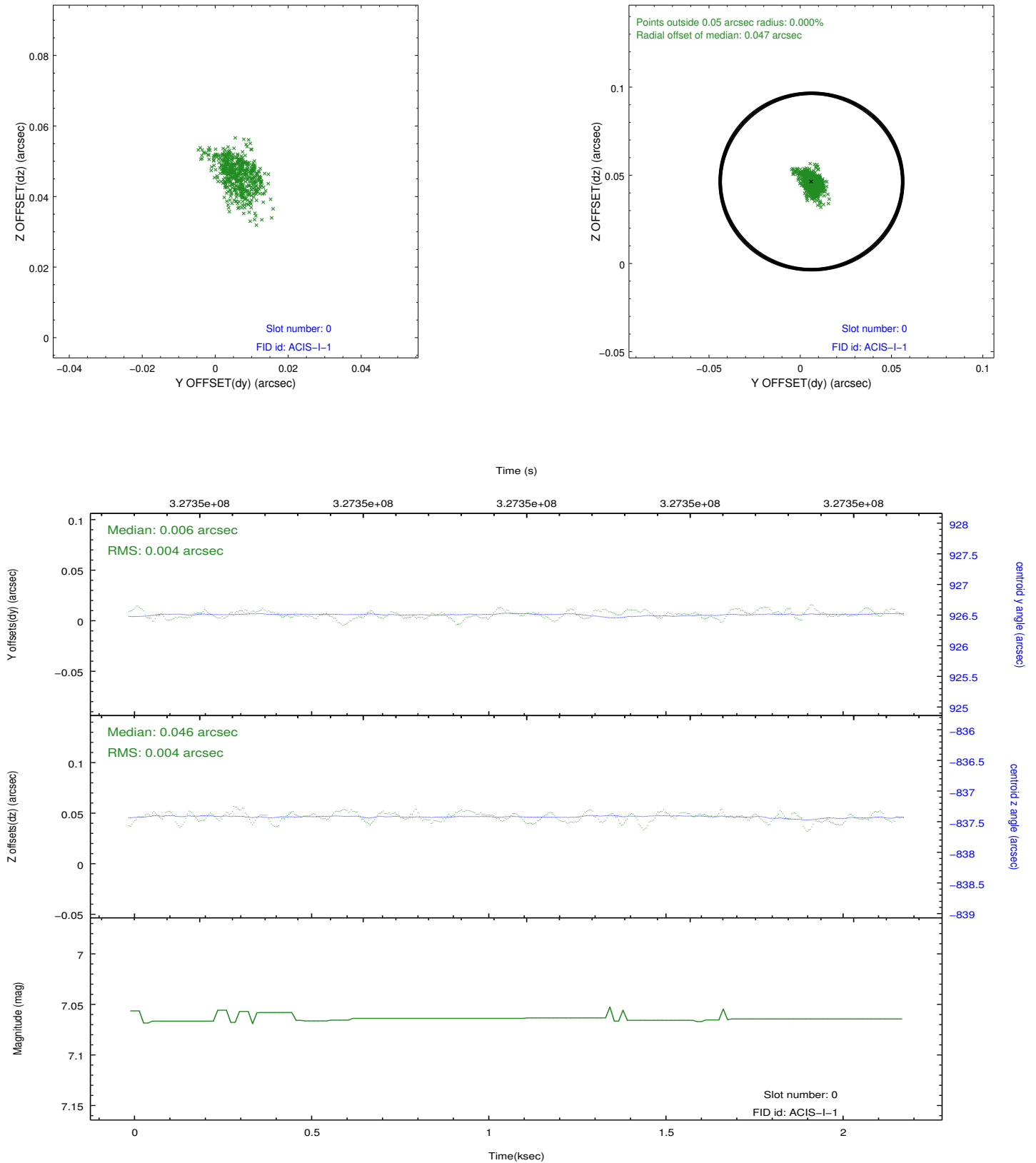


## 2.4.5 Slot 7

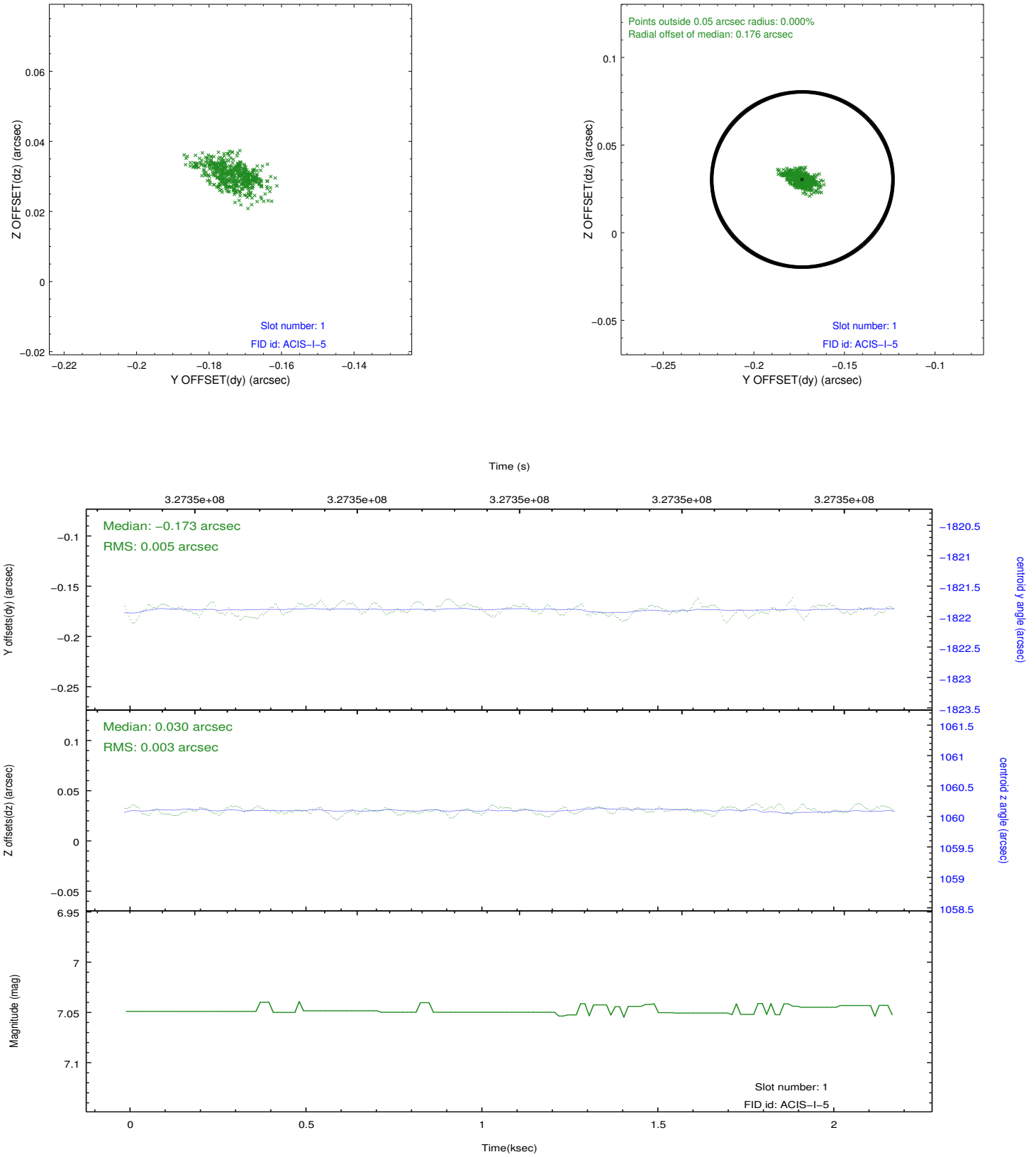


## 2.5 FID Slots

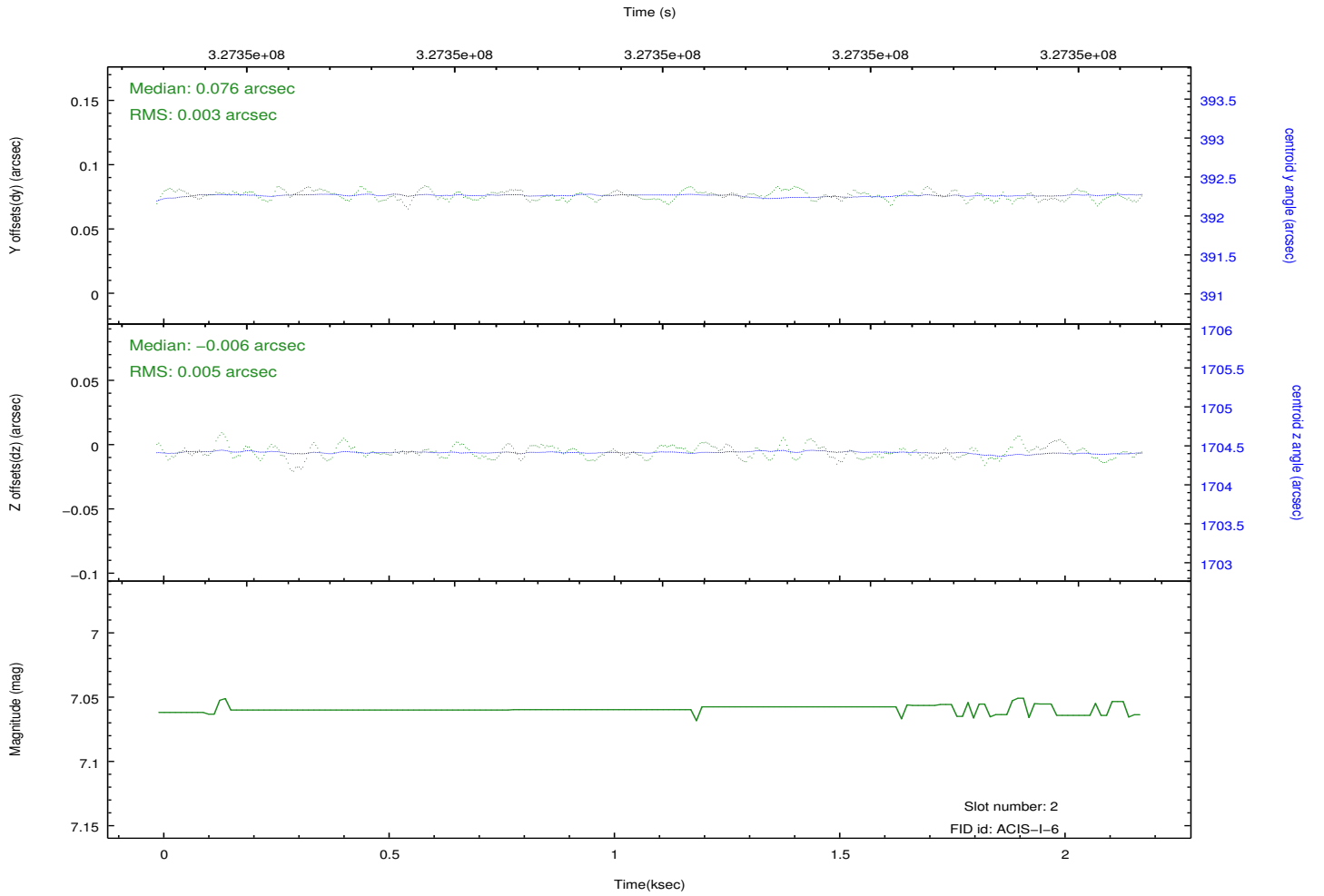
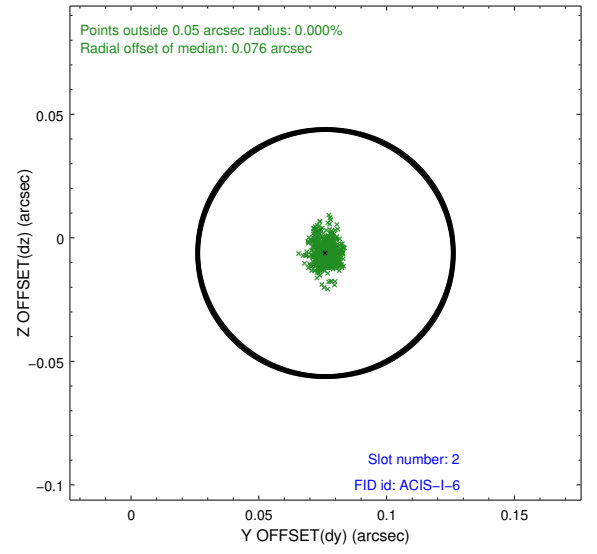
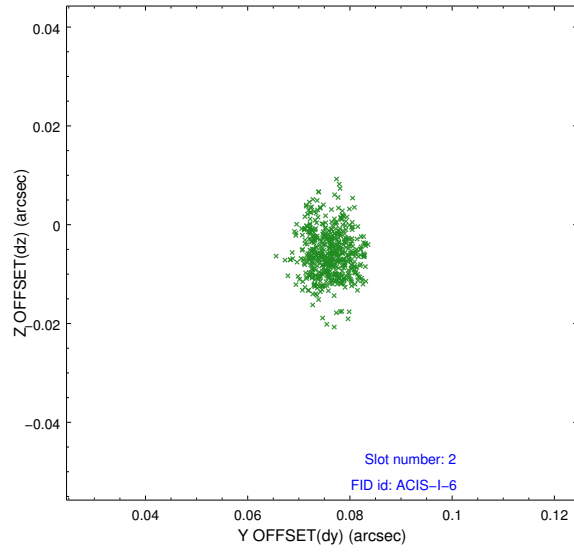
### 2.5.1 Slot 0



## 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