

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 8705 - L2 Version 2  
Chandra X-Ray Center

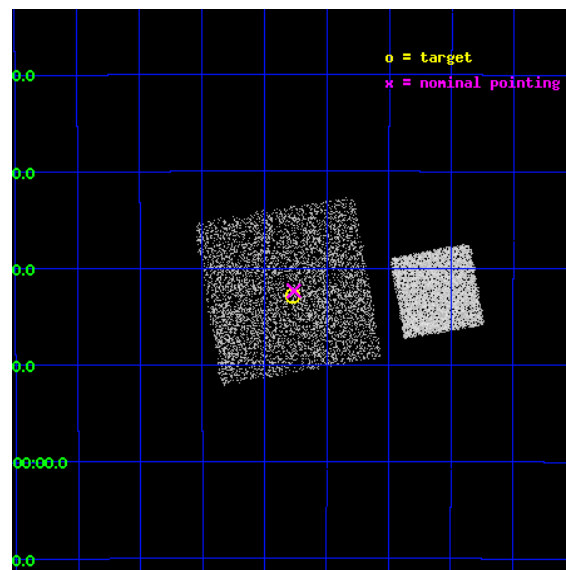
L2 Processing Date : May 15 2012

## 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

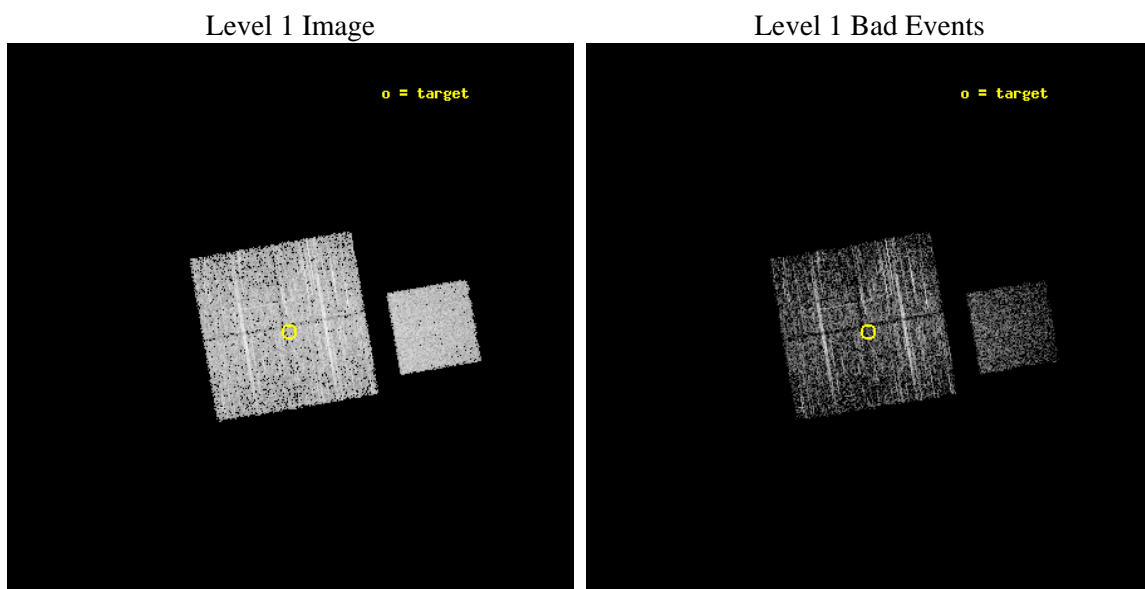
seq_num	400756	Sequence number
obs_id	8705	Observation id
title	The Galactic Bulge Survey: categorising the plethora of faint X-ray sources in the Galactic Bulge	Proposal title
observer	Prof Mariano Mendez	Principal investigator
object	GBSGTO6	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	263.817088	Observer's specified target RA [deg]
dec_targ	-29.713818	Observer's specified target Dec [deg]
ra_nom	263.81577968015	Nominal RA [deg]
dec_nom	-29.705785562641	Nominal Dec [deg]
roll_nom	80.207927080764	Nominal Roll [deg]
revision	2	Processing version of data
ontime	2185.5000168085	Sum of GTIs [s]
livetime	2156.9448501472	Livetime [s]
ontime0	2185.5000168085	Sum of GTIs [s]
ontime1	2185.5000168085	Sum of GTIs [s]
ontime2	2185.5000168085	Sum of GTIs [s]
ontime3	2185.5000168085	Sum of GTIs [s]
ontime7	2185.5000168085	Sum of GTIs [s]
l2events	16157	Number of level 2 events



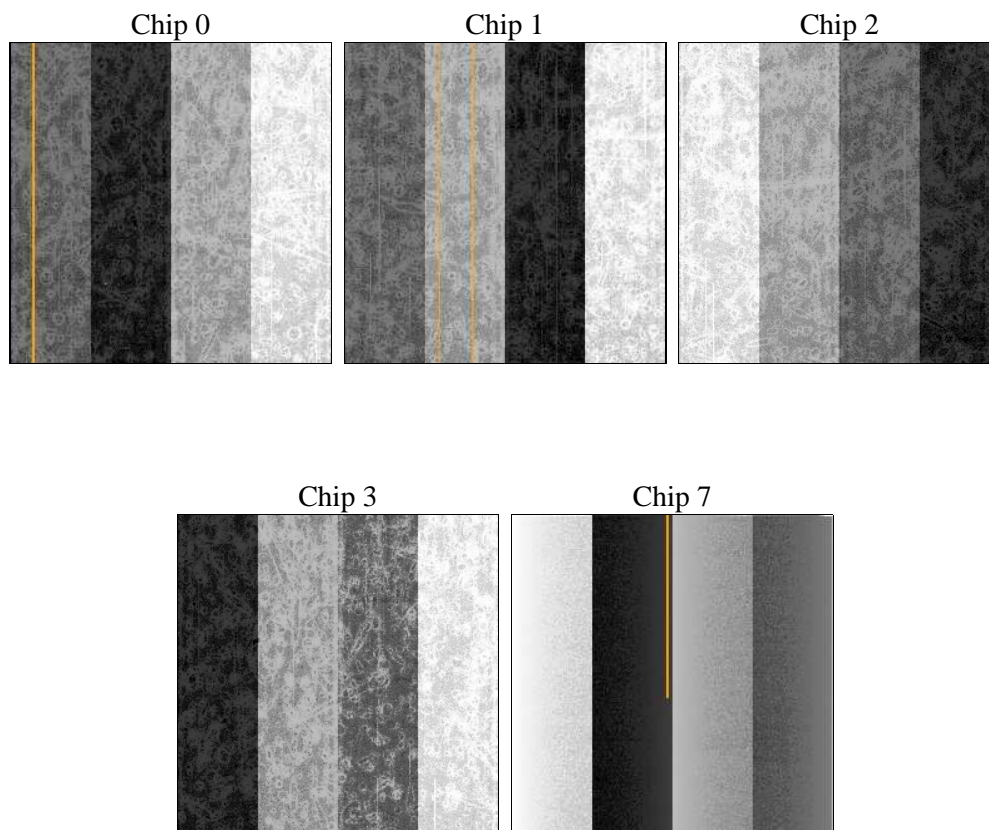
## 2 OBI

### 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	2185.5000168085	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime0	2185.5000168085	Sum of GTIs [s]
date	2012-05-15T03:11:08	Date and time of file creation	ontime1	2185.5000168085	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	2185.5000168085	Sum of GTIs [s]
			ontime3	2185.5000168085	Sum of GTIs [s]
			ontime7	2185.5000168085	Sum of GTIs [s]
			l1events	103037	Number of level 1 events

### 2.1.4 Events

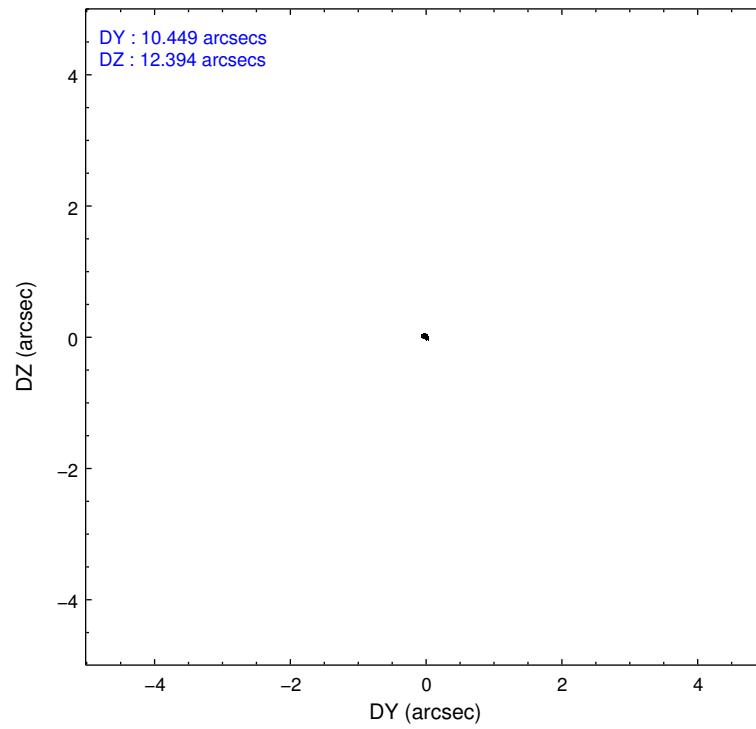
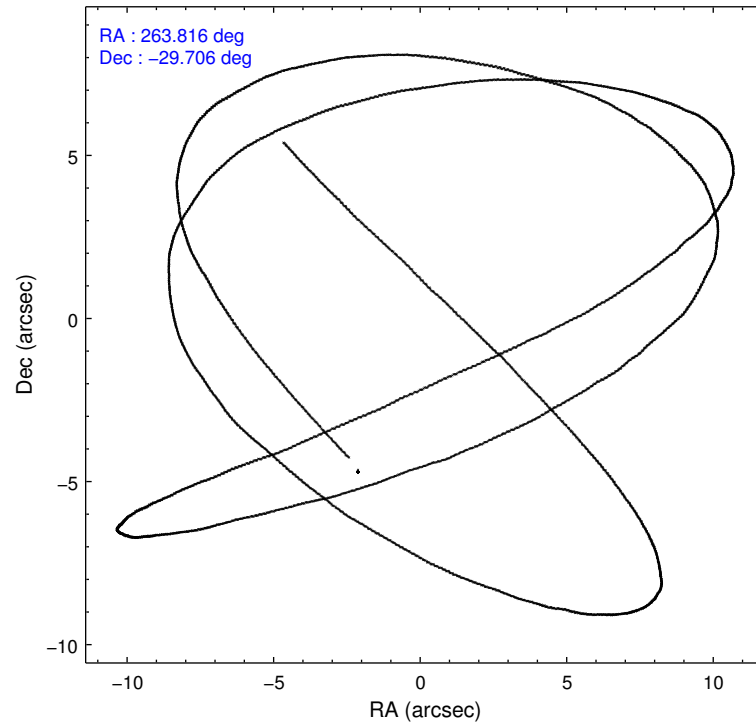
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	17949	18052	23061	21126	22849
rejected events	15920	15828	20990	19128	13475
rejected %	88%	87%	91%	90%	58%

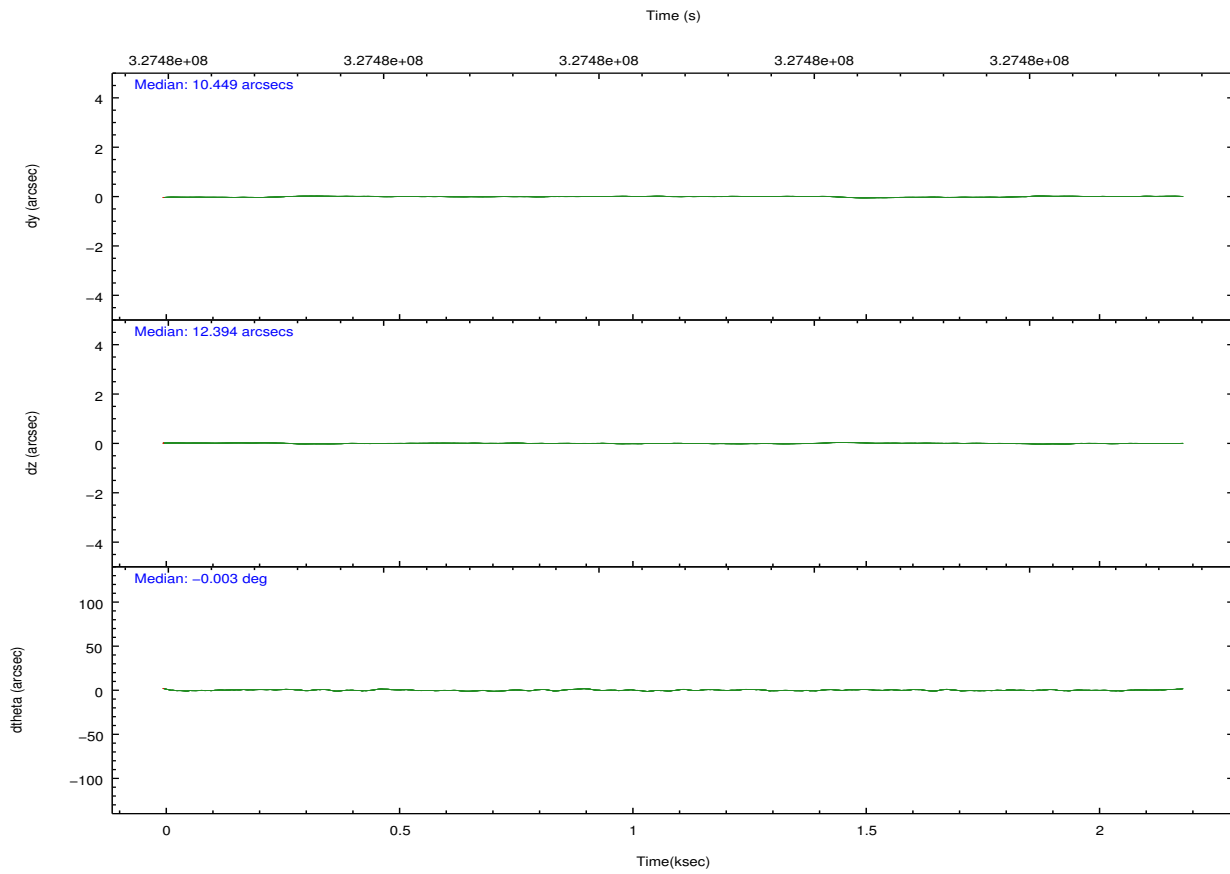
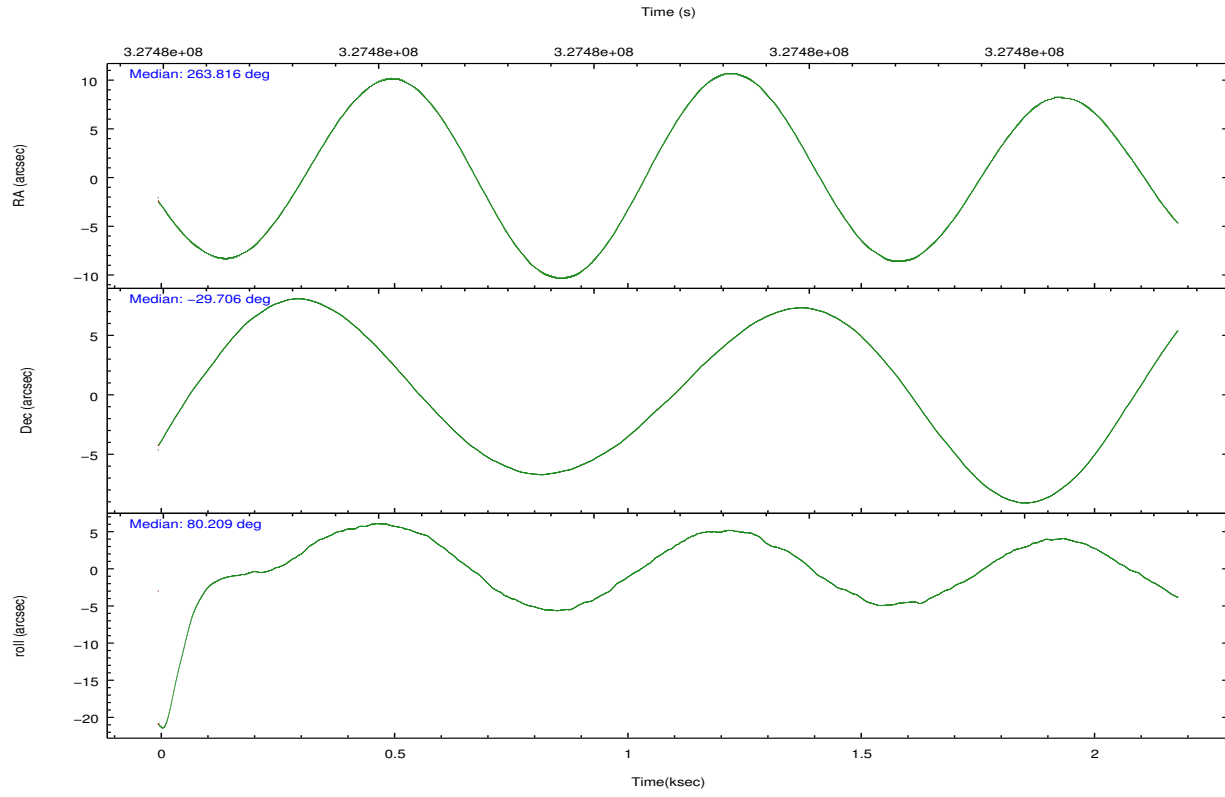
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
grade 0 events	980	1073	1046	949	1073
	5%	5%	4%	4%	4%
grade 1 events	6	14	16	21	26
	0%	0%	0%	0%	0%
grade 2 events	528	536	507	478	2198
	2%	2%	2%	2%	9%
grade 3 events	251	250	216	242	972
	1%	1%	0%	1%	4%
grade 4 events	203	231	224	238	956
	1%	1%	0%	1%	4%
grade 5 events	690	807	677	835	2364
	3%	4%	2%	3%	10%
grade 6 events	379	443	383	411	5522
	2%	2%	1%	1%	24%
grade 7 events	14912	14698	19992	17952	9738
	83%	81%	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	263.826926	263.815779680148	CCD I2 on	Y	Y
[deg] Pointing Dec	-29.731573	-29.70578556264122	CCD I3 on	Y	Y
[deg] Pointing Roll	80.004878	80.20792708076377	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)	327479764.184000	327479388.3835	CCD S5 on	N	N
Observation start date	2008-05-18T06:34:59	2008-05-18T06:29:48	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	327481764.184000	327481898.09612	On-chip summing requested	N	N
Observation end date	2008-05-18T07:08:19	2008-05-18T07:11:38	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect





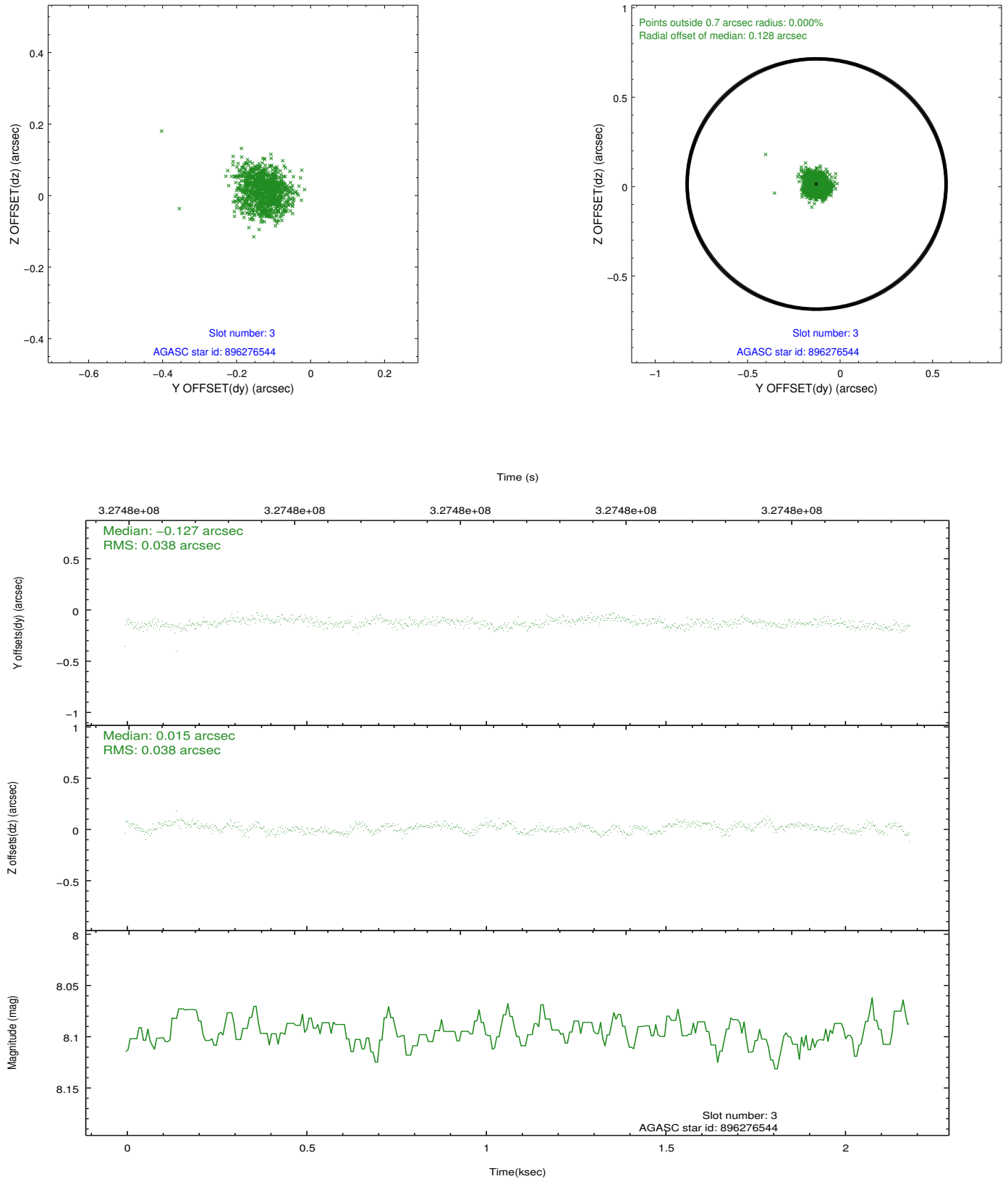
### Slot Statistics

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	534	0.010	-0.051	0.007	0.012	0.000000	0.000000	929.16	-835.97
1	FID	ACIS-I-4	6.98	534	0.083	0.054	0.007	0.011	0.000000	0.000000	2150.92	1062.46
2	FID	ACIS-I-5	7.02	534	-0.191	0.068	0.006	0.012	0.000000	0.000000	-1815.23	1063.68
3	GUIDE	896276544	8.10	1067	-0.127	0.015	0.057	0.088	263.666616	-29.255819	1598.74	792.80
4	GUIDE	896276584	7.40	1067	0.029	-0.073	0.077	0.122	263.264332	-29.650845	-22.10	1783.50
5	GUIDE	896278088	7.60	1067	-0.204	-0.022	0.067	0.105	263.476198	-29.223388	1608.48	1403.83
6	GUIDE	966663320	8.37	1067	0.125	-0.127	0.065	0.108	263.144579	-30.119819	-1750.29	1849.87
7	GUIDE	966791064	7.78	1065	0.169	0.202	0.071	0.108	263.920275	-30.338943	-2104.74	-663.49

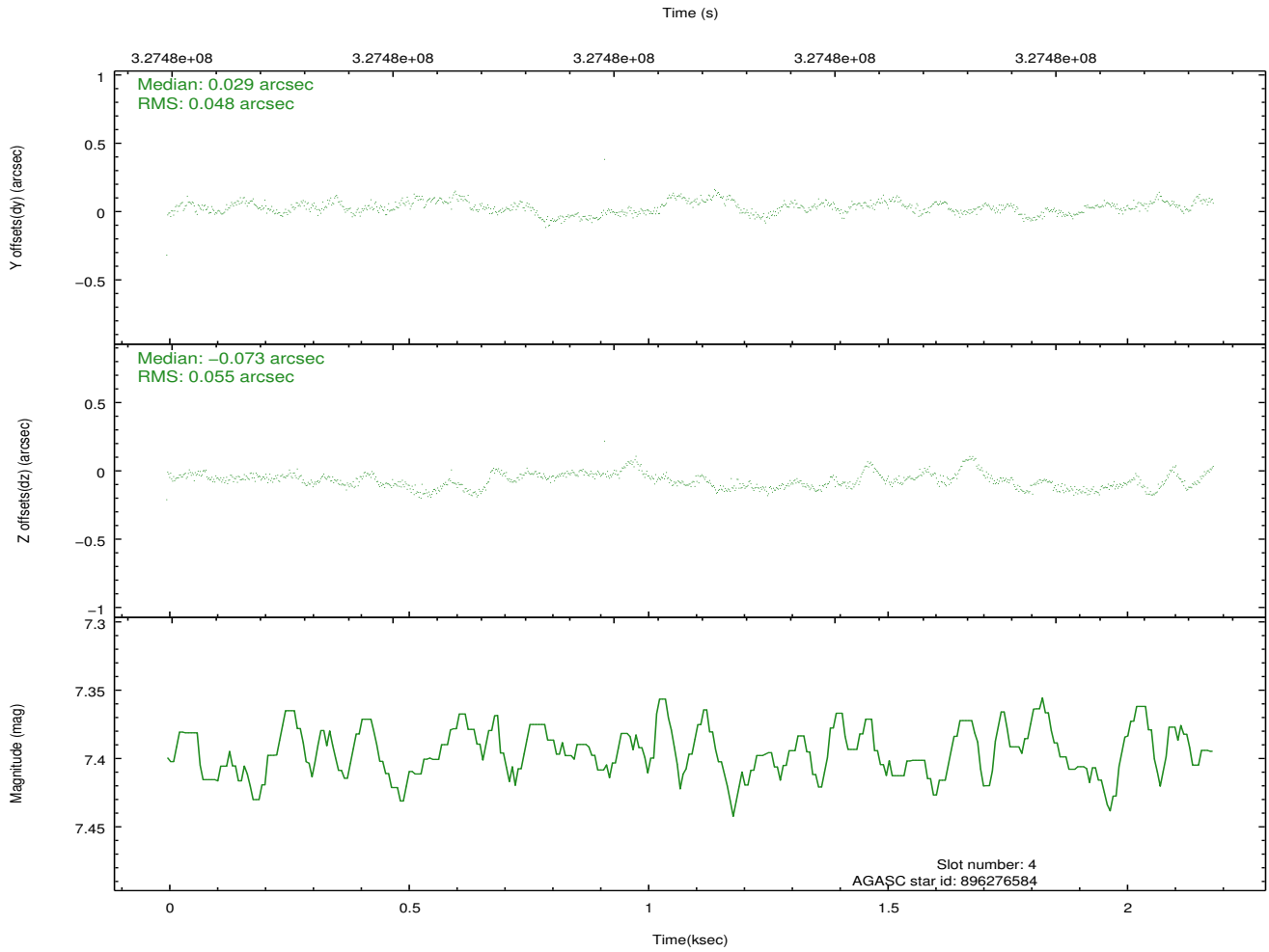
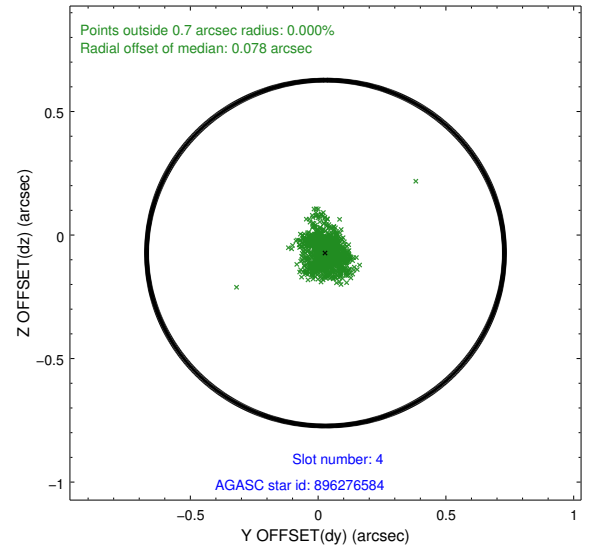
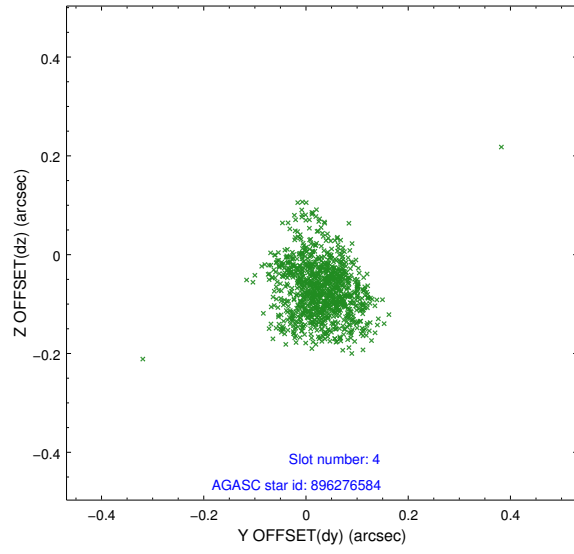


## 2.4 Star Slots

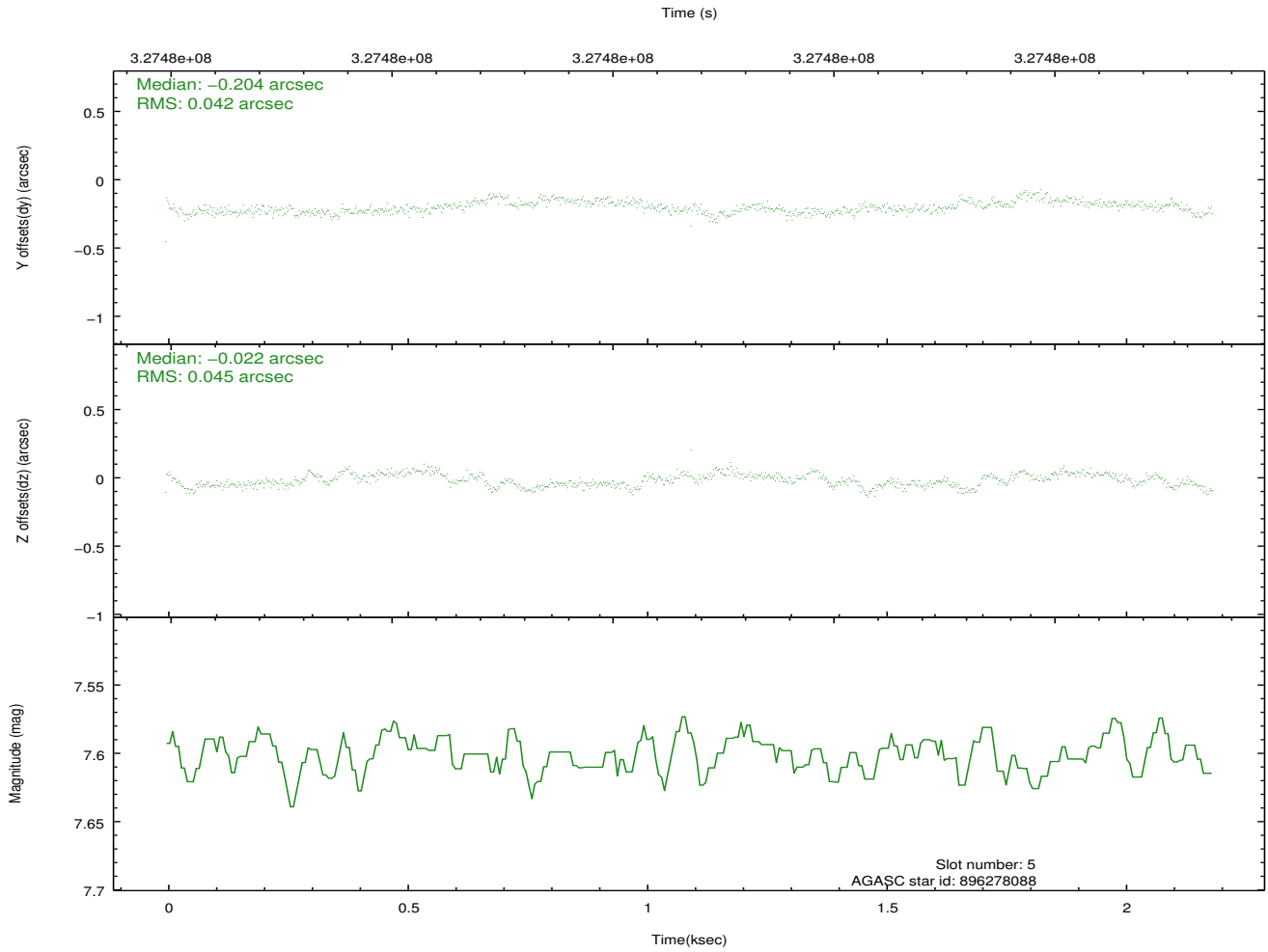
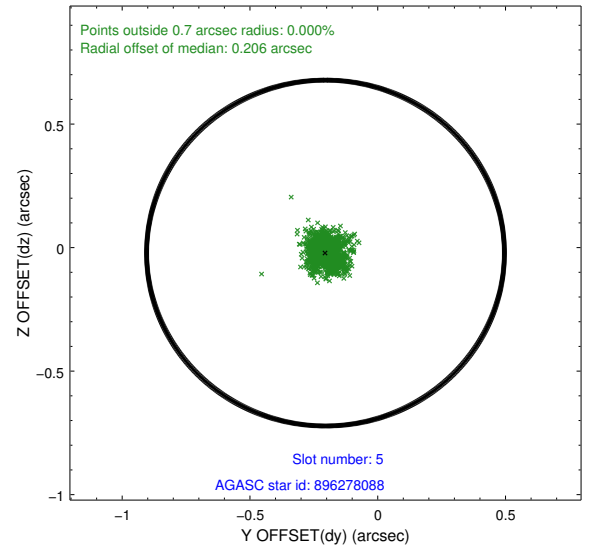
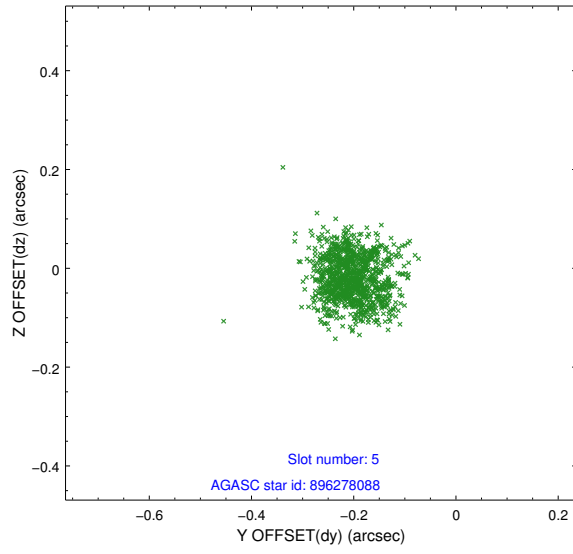
### 2.4.1 Slot 3



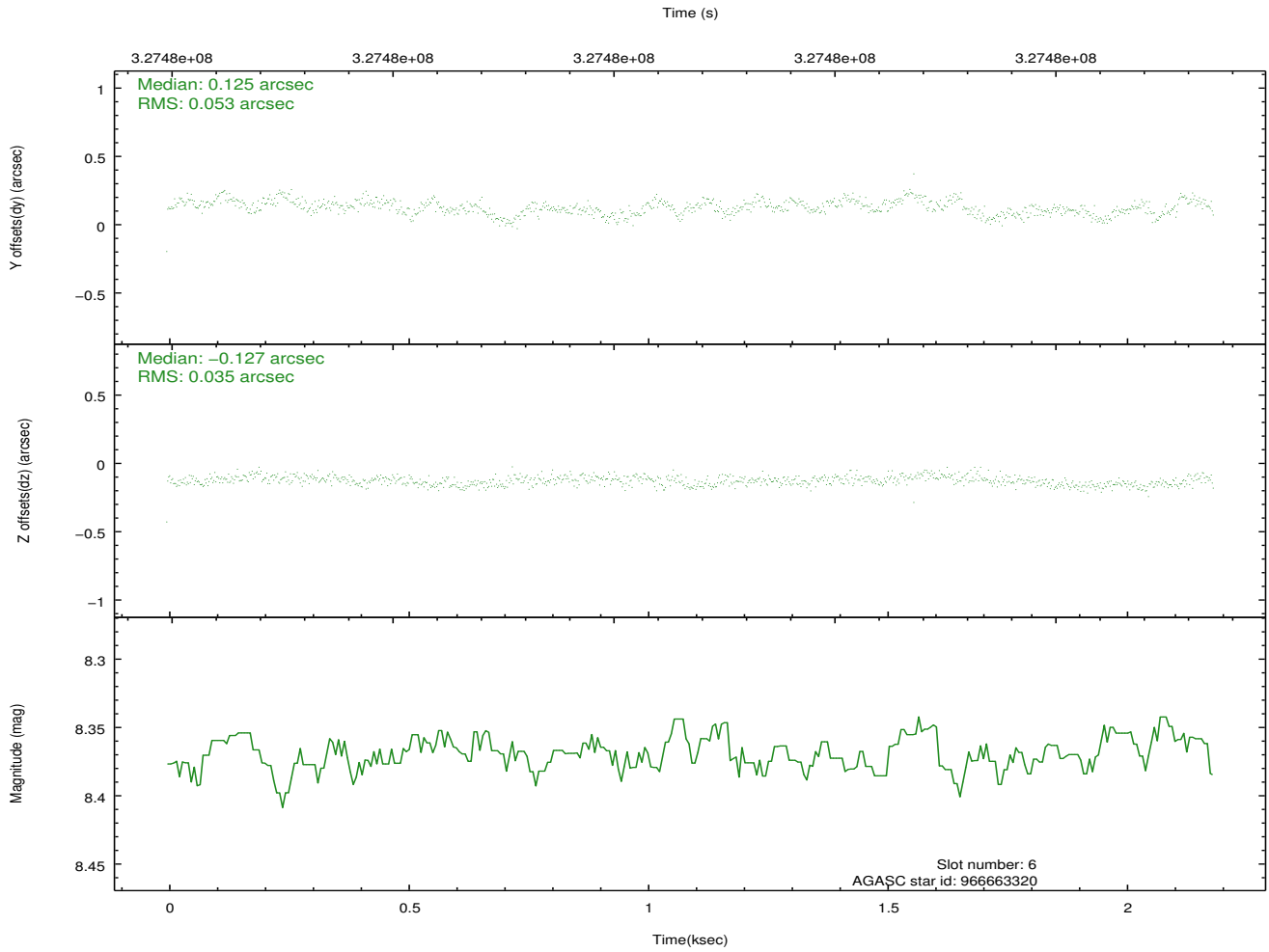
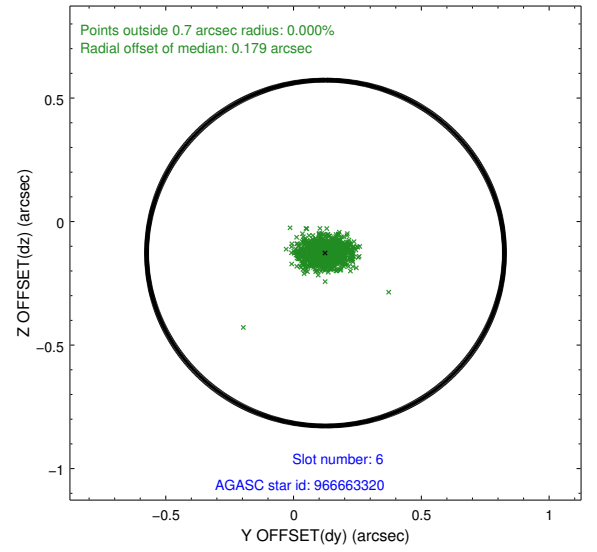
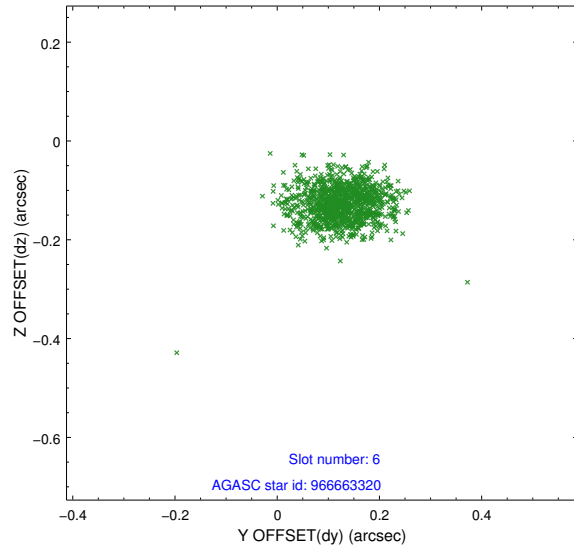
## 2.4.2 Slot 4



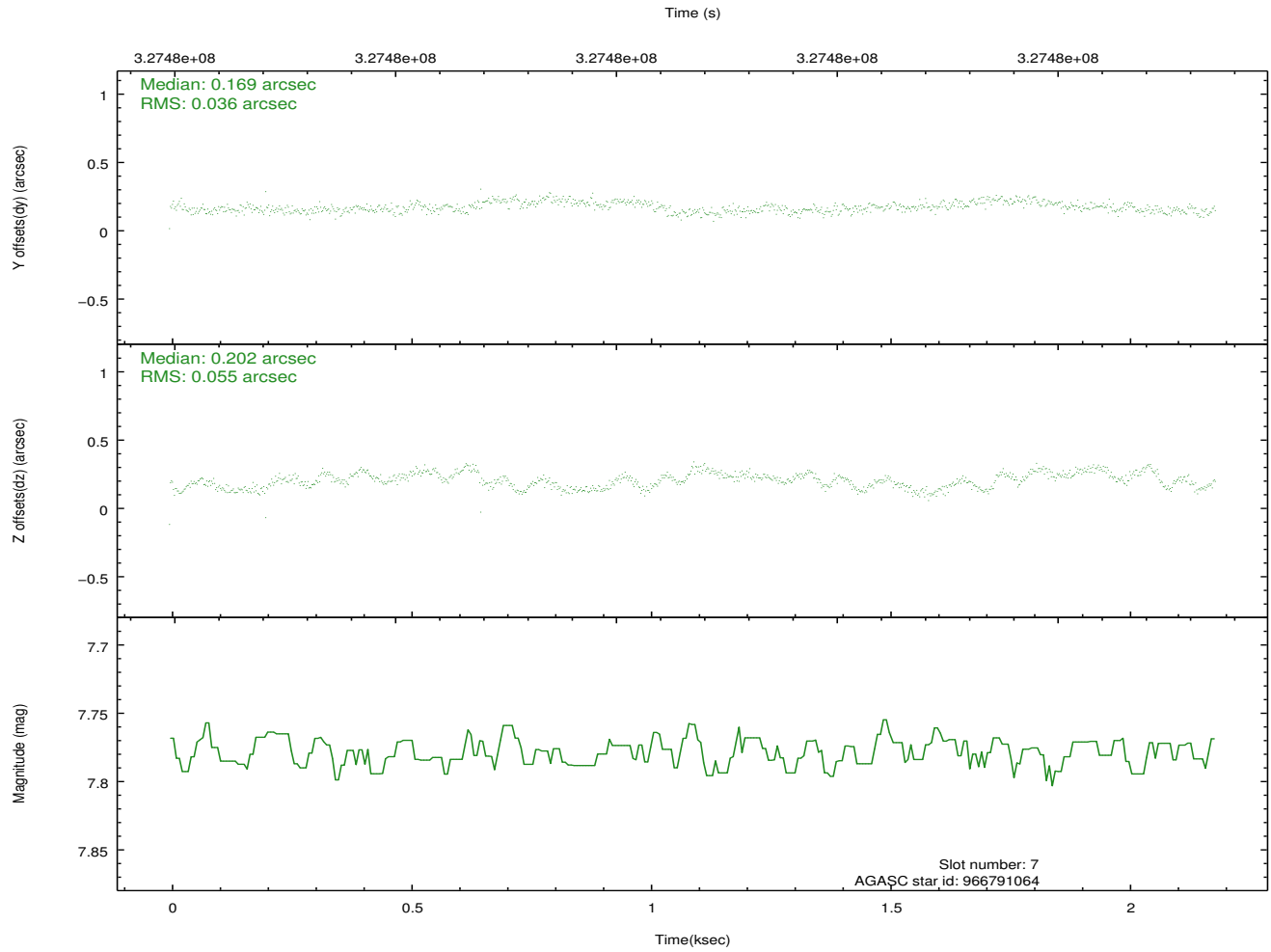
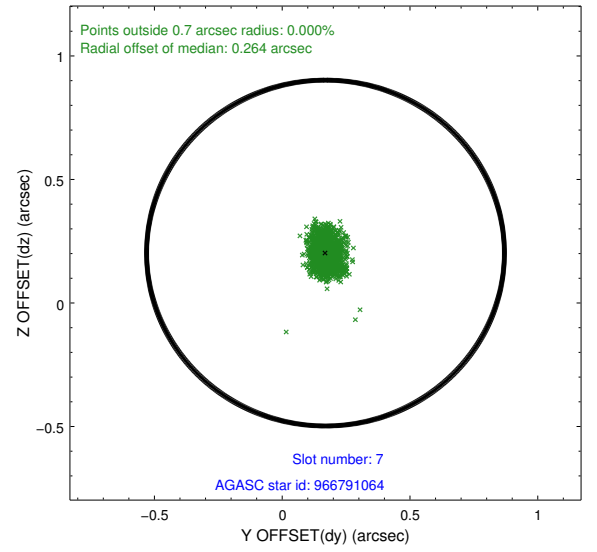
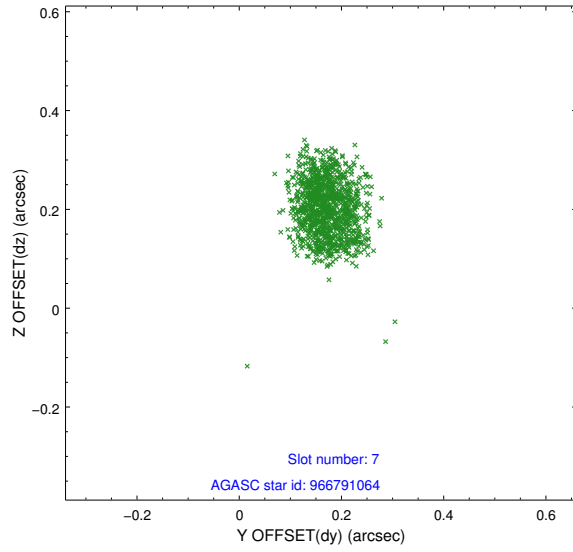
### 2.4.3 Slot 5



## 2.4.4 Slot 6

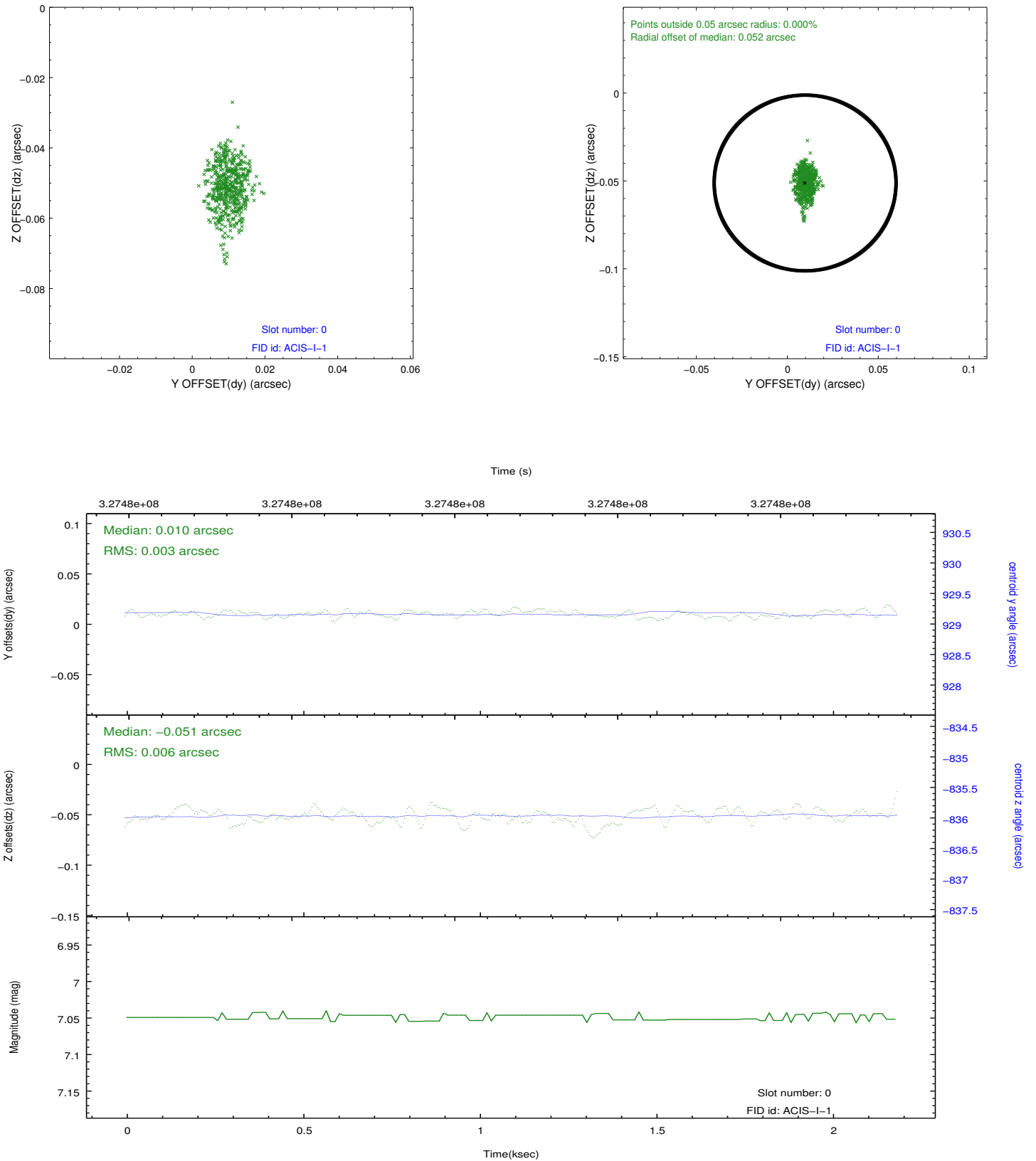


## 2.4.5 Slot 7

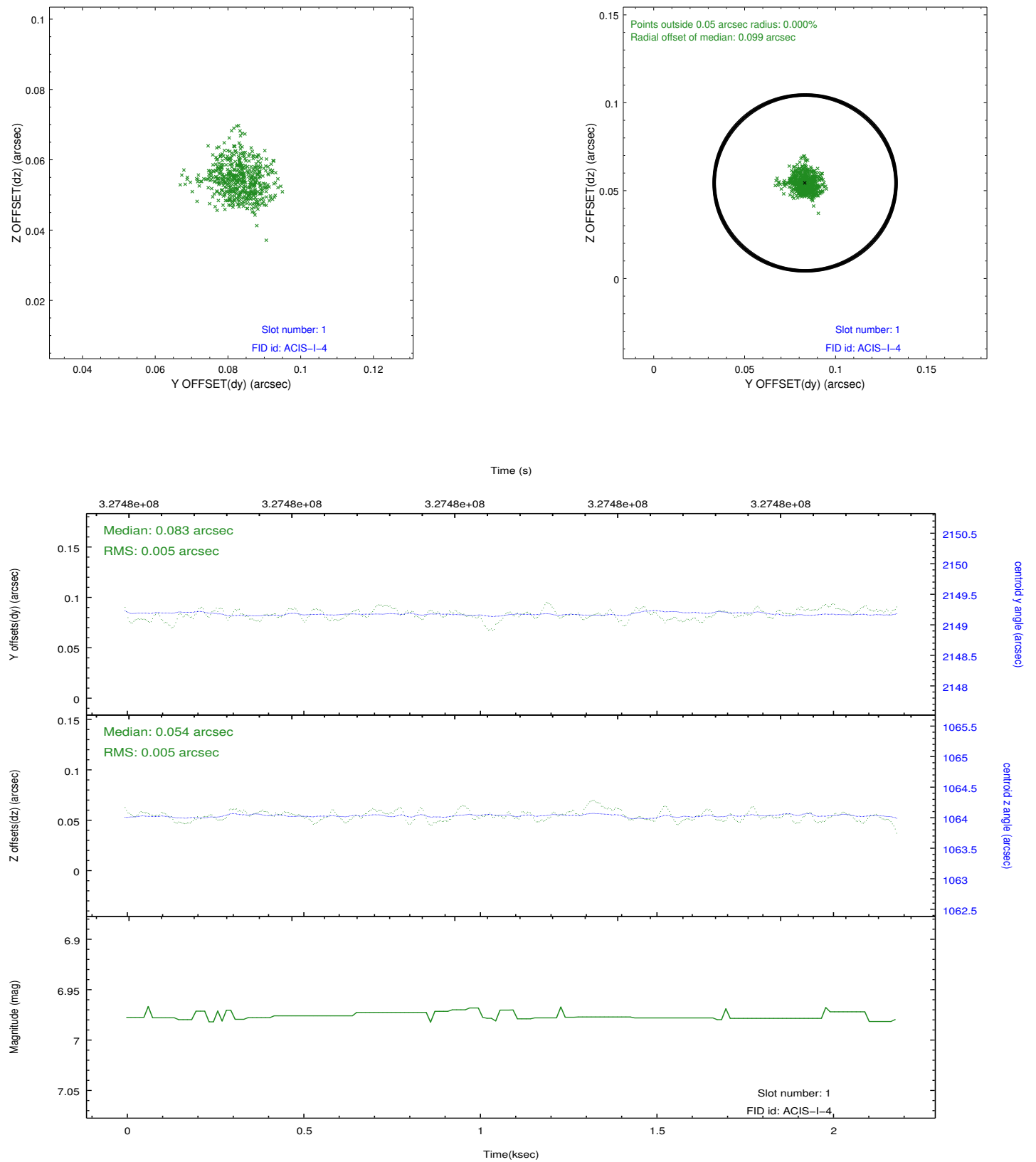


## 2.5 FID Slots

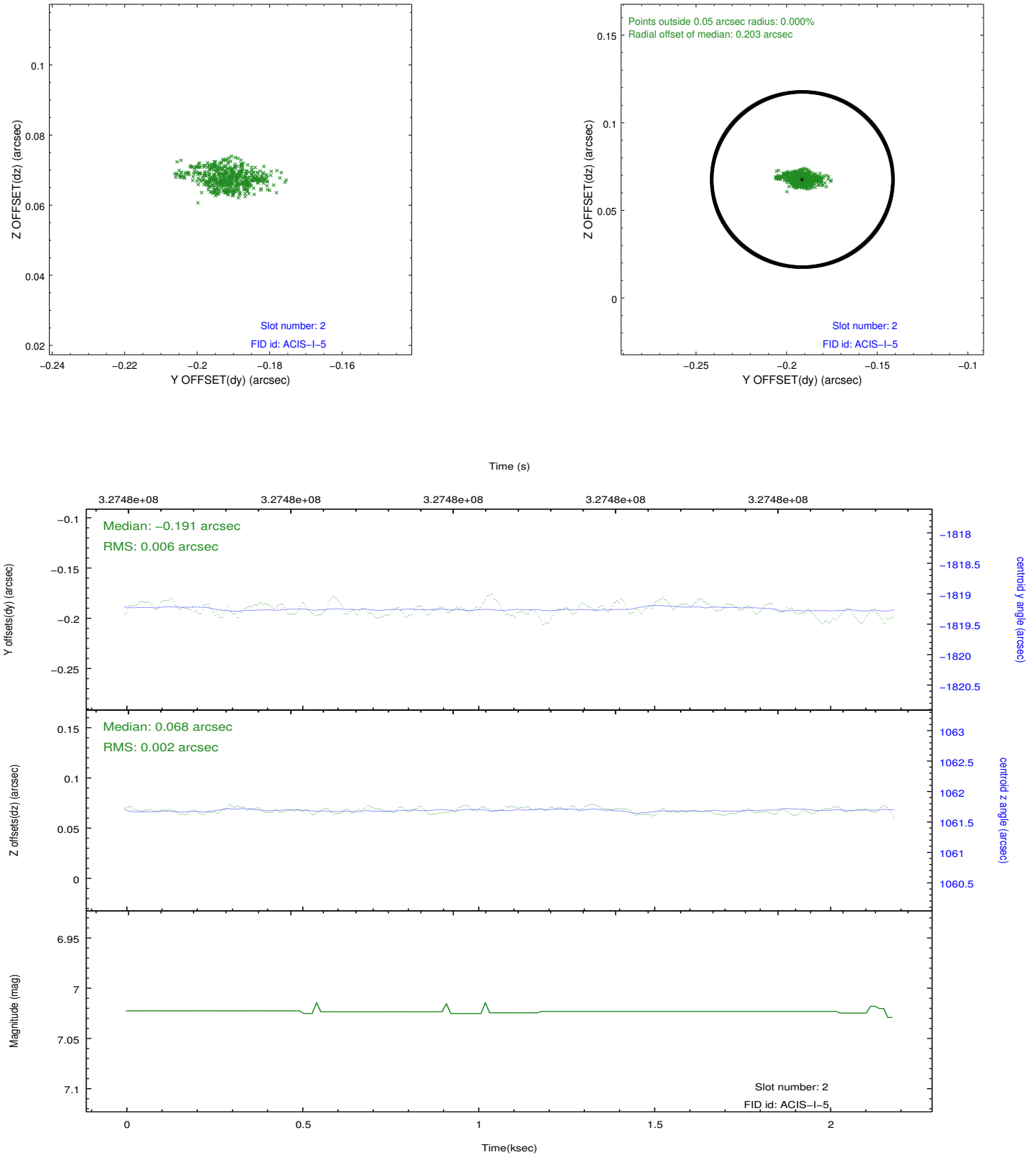
### 2.5.1 Slot 0



## 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	2.18550001

### A.2 Comments