

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 8663 - L2 Version 2  
Chandra X-Ray Center

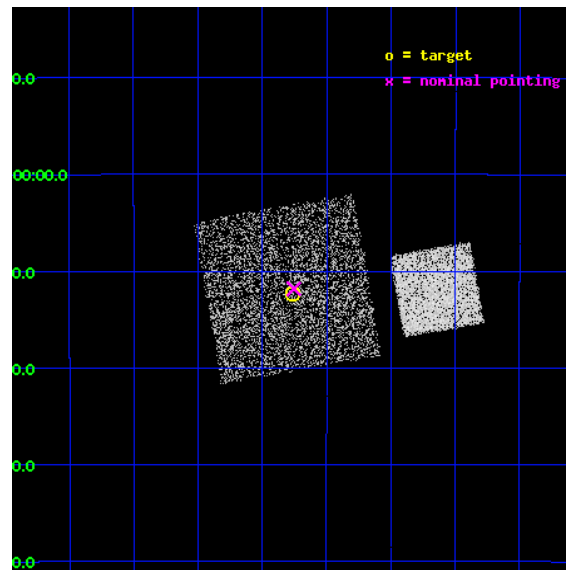
L2 Processing Date : May 15 2012

## 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

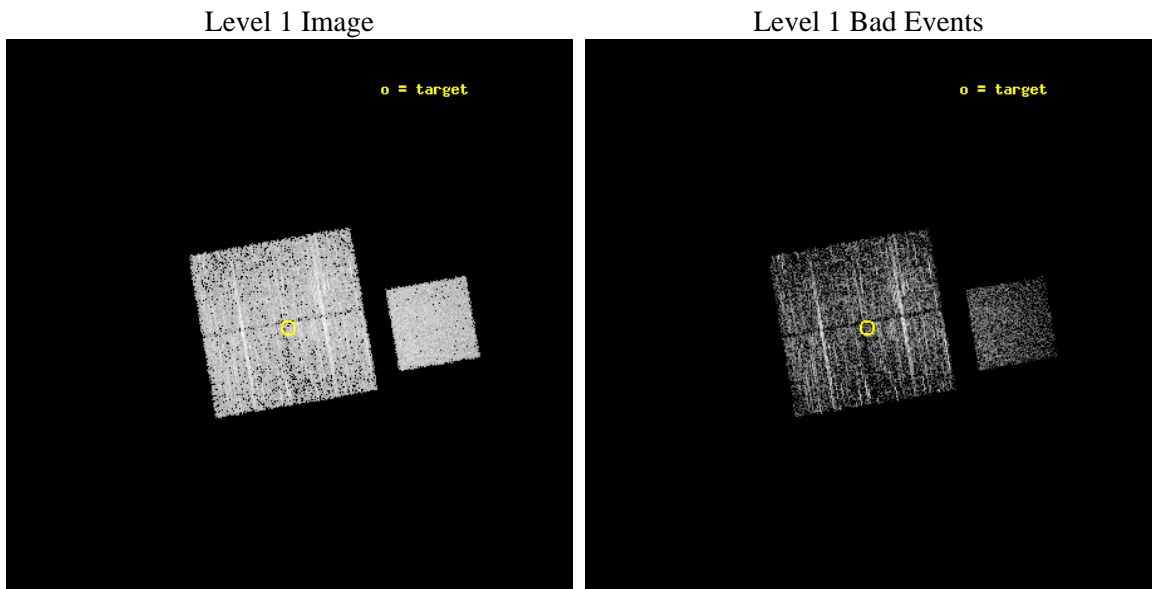
seq_num	400714	Sequence number
obs_id	8663	Observation id
title	The Galactic Bulge Survey: categorising the plethora of faint X-ray sources in the Galactic Bulge	Proposal title
observer	Prof Mariano Mendez	Principal investigator
object	GBSGTO2	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	266.564825	Observer's specified target RA [deg]
dec_targ	-26.205279	Observer's specified target Dec [deg]
ra_nom	266.56356123155	Nominal RA [deg]
dec_nom	-26.197346856775	Nominal Dec [deg]
roll_nom	80.208154236237	Nominal Roll [deg]
revision	2	Processing version of data
ontime	2179.3000167608	Sum of GTIs [s]
livetime	2150.8258576645	Livetime [s]
ontime0	2179.3000167608	Sum of GTIs [s]
ontime1	2179.3000167608	Sum of GTIs [s]
ontime2	2179.3000167608	Sum of GTIs [s]
ontime3	2179.3000167608	Sum of GTIs [s]
ontime7	2179.3000167608	Sum of GTIs [s]
l2events	15988	Number of level 2 events



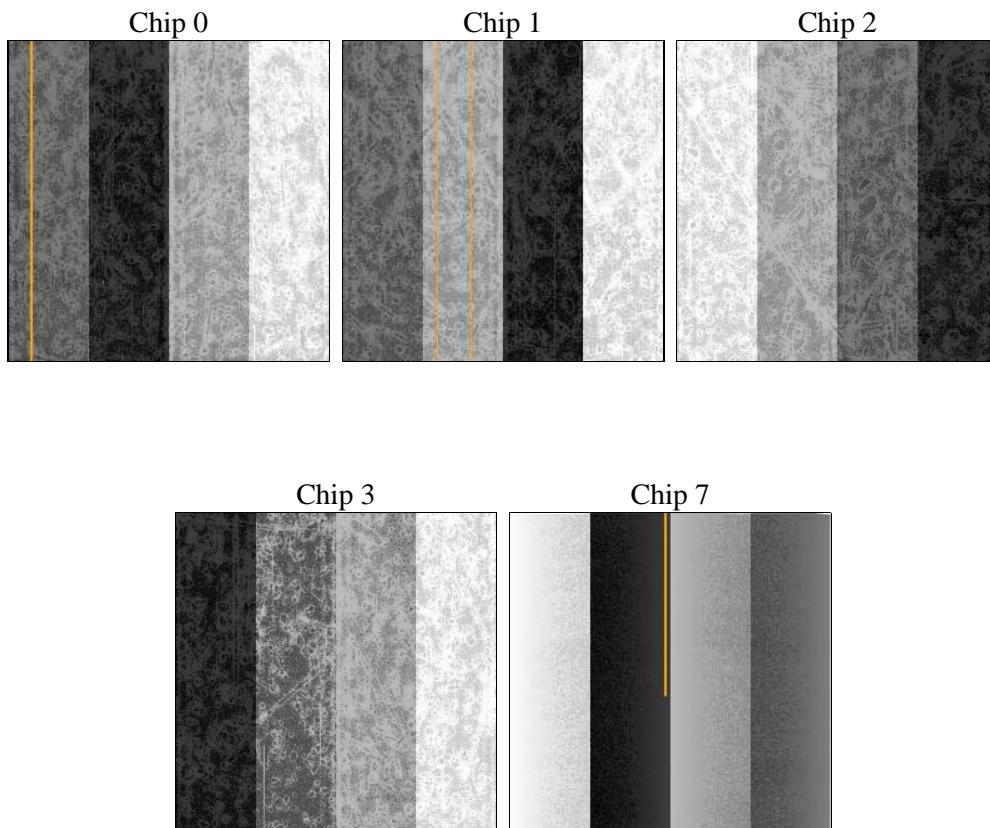
## 2 OBI

### 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	2179.3000167608	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime0	2179.3000167608	Sum of GTIs [s]
date	2012-05-15T02:54:49	Date and time of file creation	ontime1	2179.3000167608	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	2179.3000167608	Sum of GTIs [s]
			ontime3	2179.3000167608	Sum of GTIs [s]
			ontime7	2179.3000167608	Sum of GTIs [s]
			l1events	102102	Number of level 1 events

### 2.1.4 Events

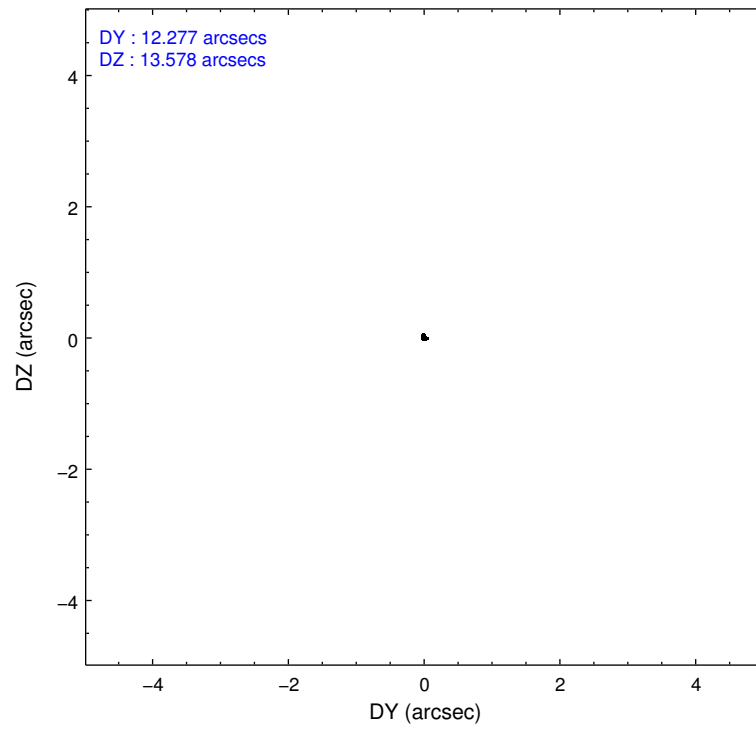
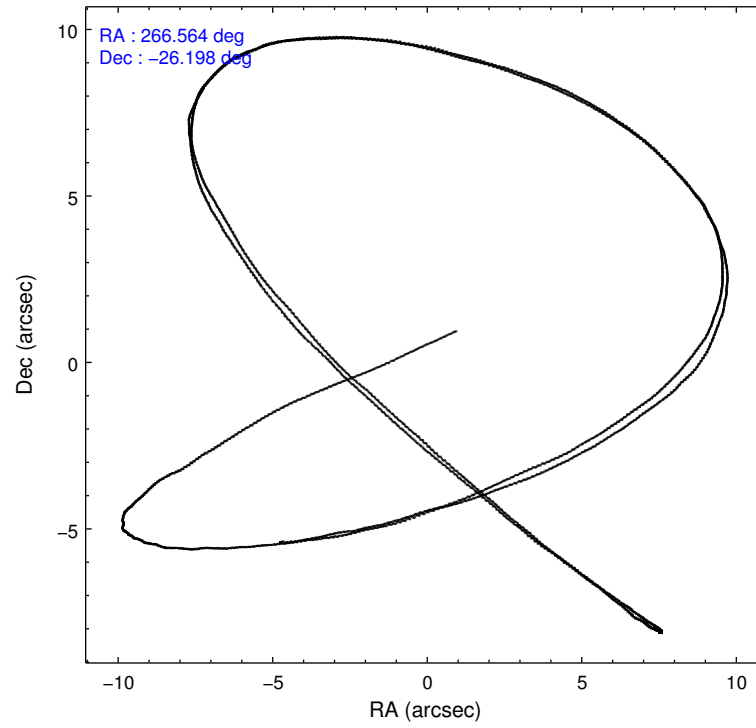
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	17992	19728	21542	20329	22511
rejected events	15934	17399	19468	18226	13440
rejected %	88%	88%	90%	89%	59%

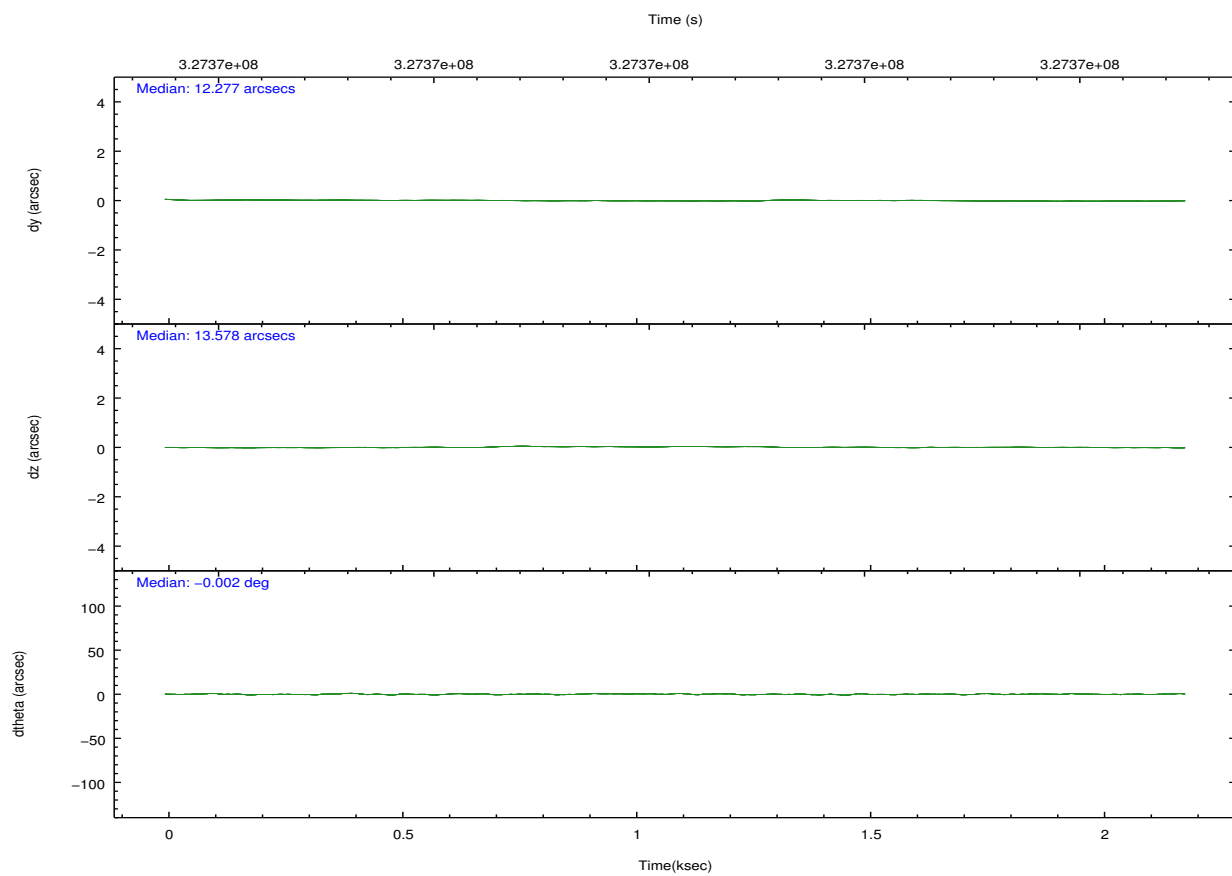
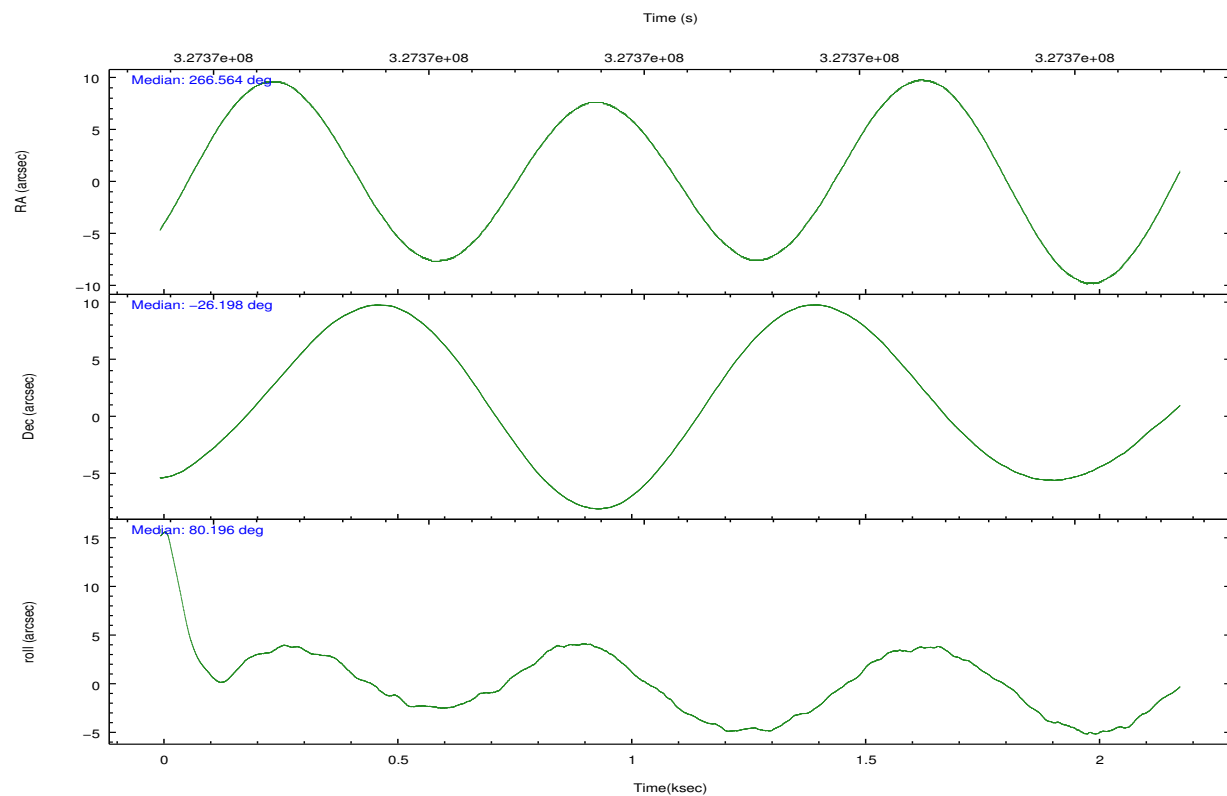
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
grade 0 events	963	1182	1033	1076	990
	5%	5%	4%	5%	4%
grade 1 events	17	15	21	12	28
	0%	0%	0%	0%	0%
grade 2 events	531	496	530	465	2166
	2%	2%	2%	2%	9%
grade 3 events	258	288	220	238	977
	1%	1%	1%	1%	4%
grade 4 events	205	263	204	258	965
	1%	1%	0%	1%	4%
grade 5 events	699	768	649	797	2403
	3%	3%	3%	3%	10%
grade 6 events	425	456	396	380	5418
	2%	2%	1%	1%	24%
grade 7 events	14894	16260	18489	17103	9564
	82%	82%	85%	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	266.574361	266.5635612315506	CCD I2 on	Y	Y
[deg] Pointing Dec	-26.223032	-26.19734685677498	CCD I3 on	Y	Y
[deg] Pointing Roll	80.004212	80.20815423623657	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)	327369643.184000	327369267.50313	CCD S5 on	N	N
Observation start date	2008-05-16T23:59:38	2008-05-16T23:54:27	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	327371643.184000	327371777.72825	On-chip summing requested	N	N
Observation end date	2008-05-17T00:32:58	2008-05-17T00:36:17	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect





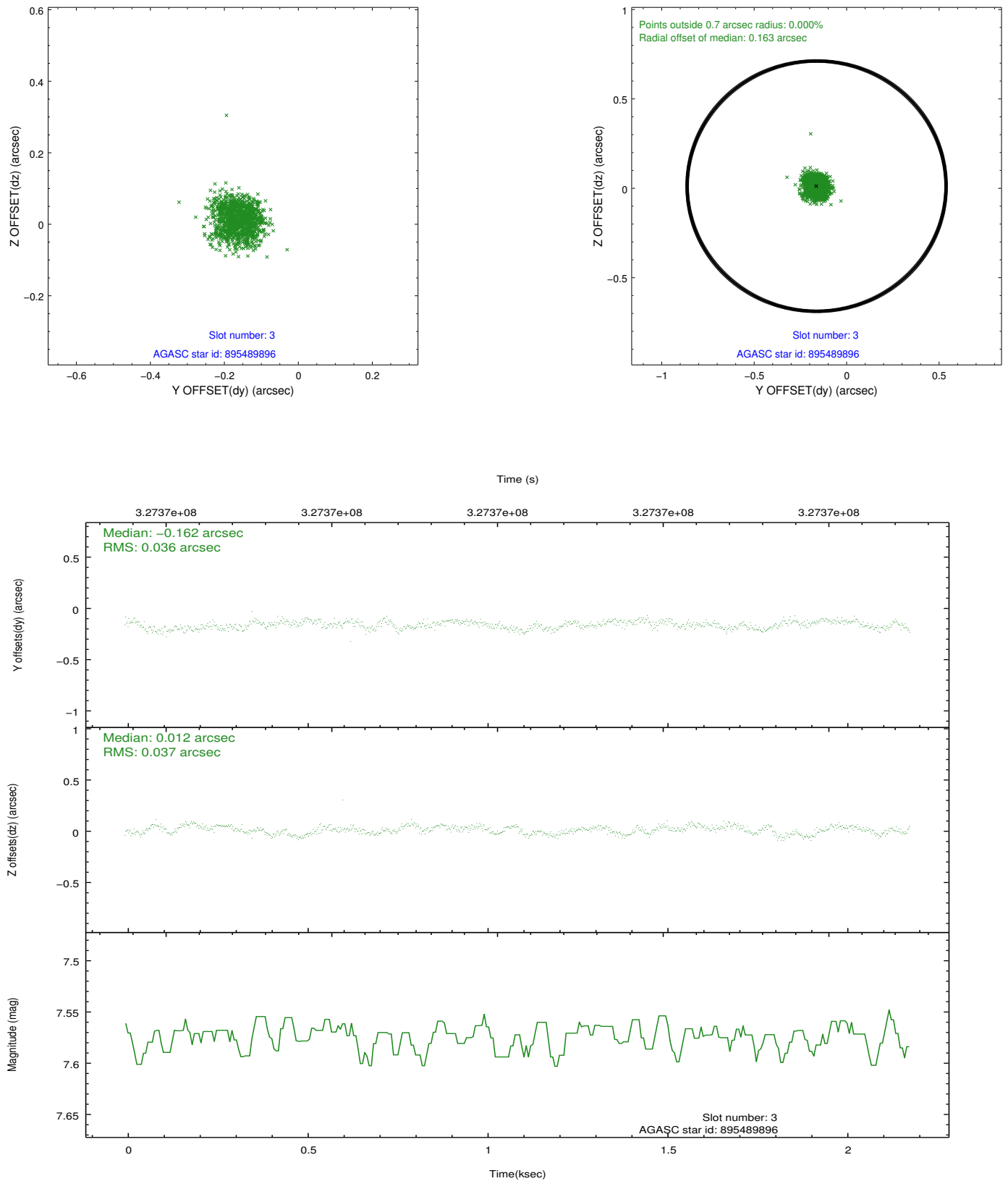
Slot Statistics

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	532	0.010	0.039	0.006	0.011	0.000000	0.000000	927.27	-837.10
1	FID	ACIS-I-5	7.05	532	-0.164	0.036	0.006	0.011	0.000000	0.000000	-1819.36	1058.87
2	FID	ACIS-I-6	7.06	532	0.063	-0.004	0.007	0.011	0.000000	0.000000	389.60	1706.74
3	GUIDE	895489896	7.57	1065	-0.162	0.012	0.056	0.086	266.605795	-26.200300	98.66	-85.76
4	GUIDE	896009584	9.27	1065	0.180	-0.002	0.099	0.160	266.891313	-26.347528	-264.03	-1085.13
5	GUIDE	896011536	9.37	1065	0.018	0.329	0.097	0.158	267.007333	-26.766562	-1687.04	-1711.73
6	GUIDE	896015880	8.51	1065	-0.060	-0.340	0.067	0.110	265.986633	-26.306686	-631.50	1812.80
7	GUIDE	896015112	9.16	1063	0.022	-0.003	0.091	0.150	266.684847	-26.286161	-161.95	-389.01

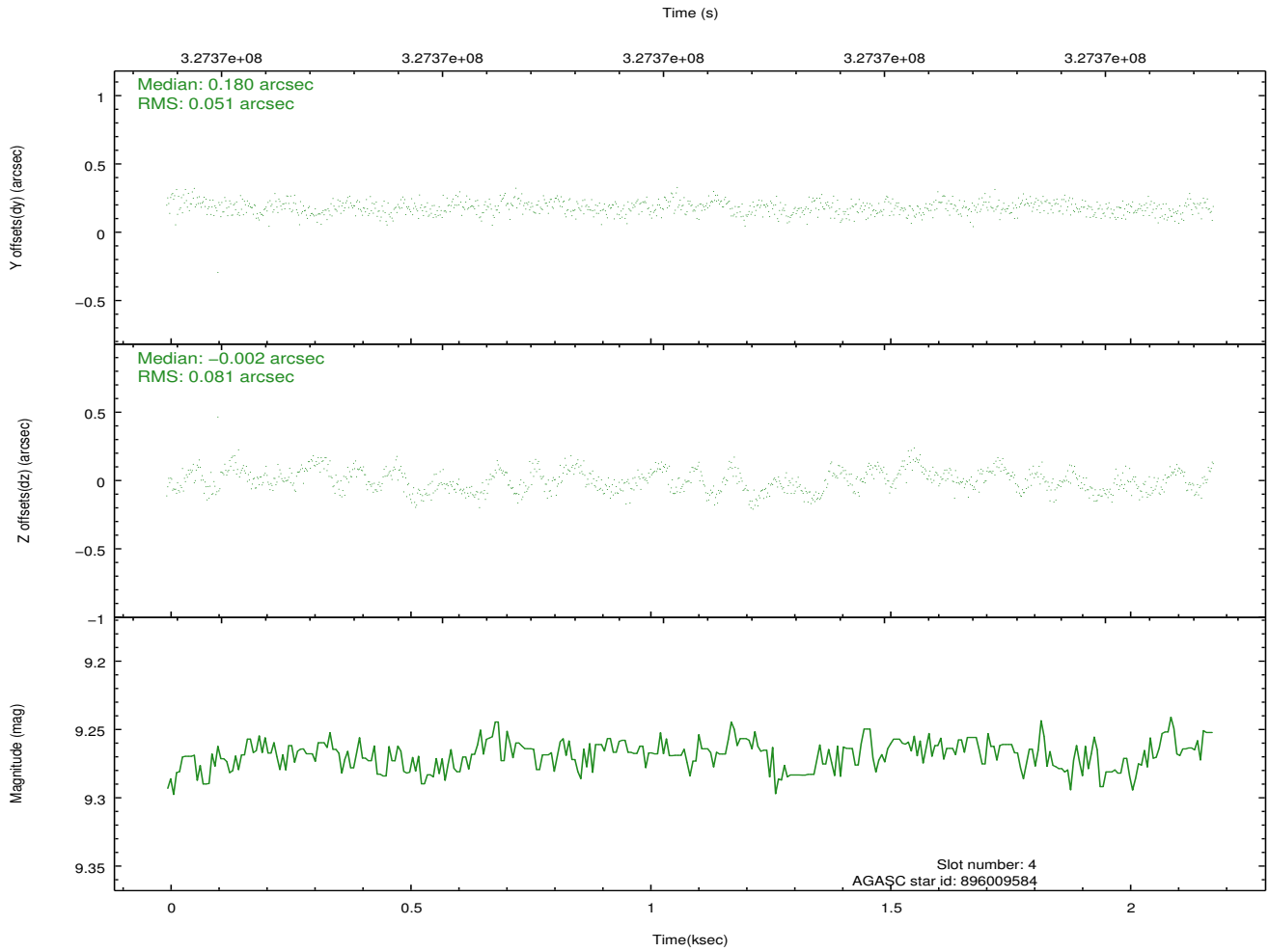
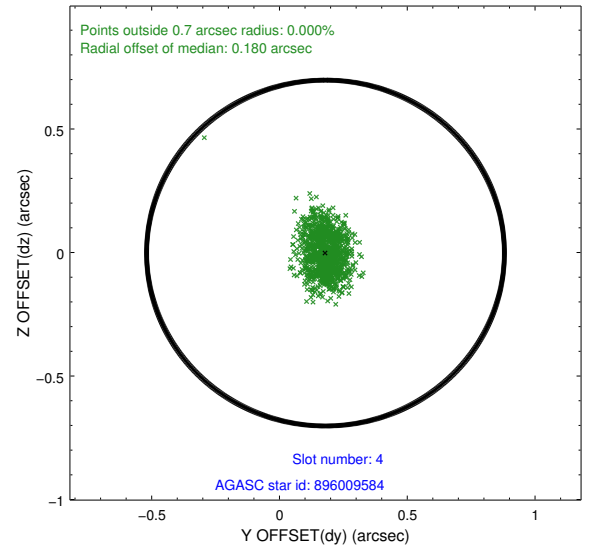
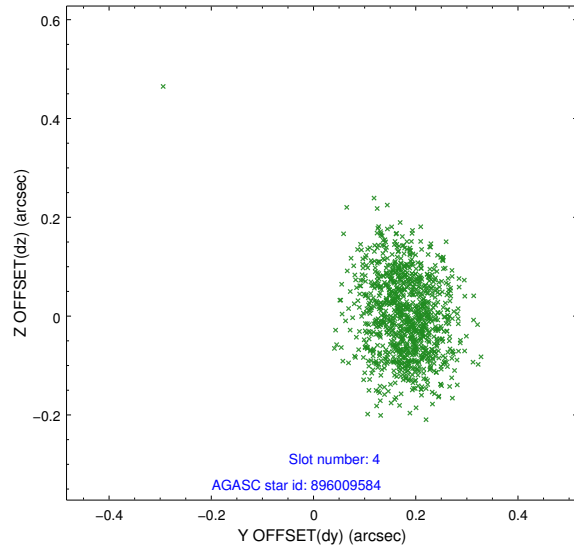


## 2.4 Star Slots

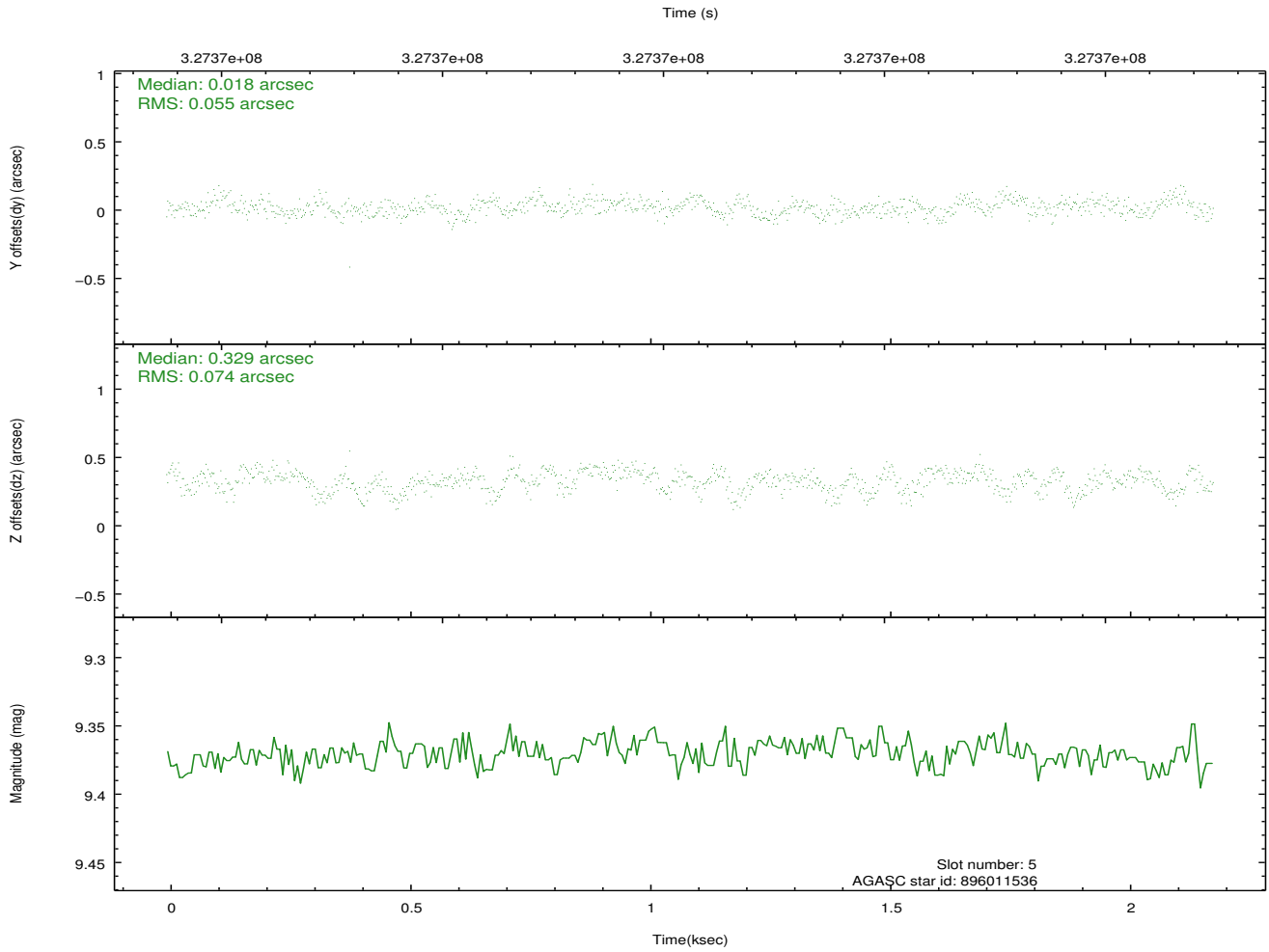
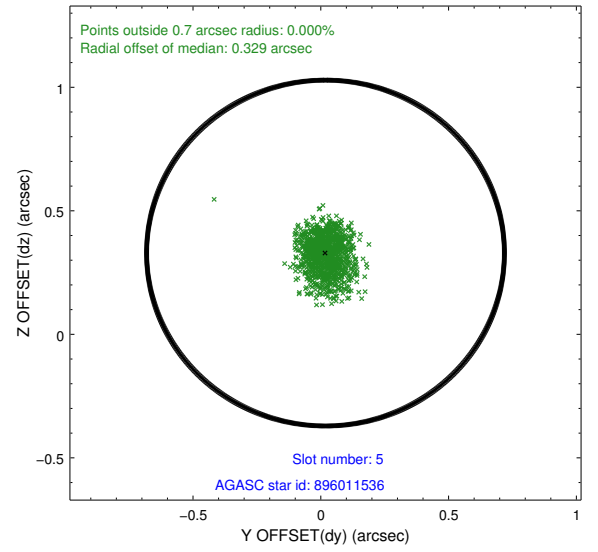
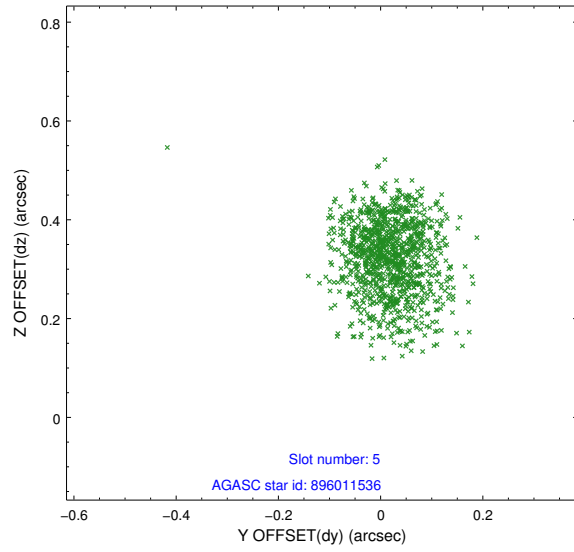
### 2.4.1 Slot 3



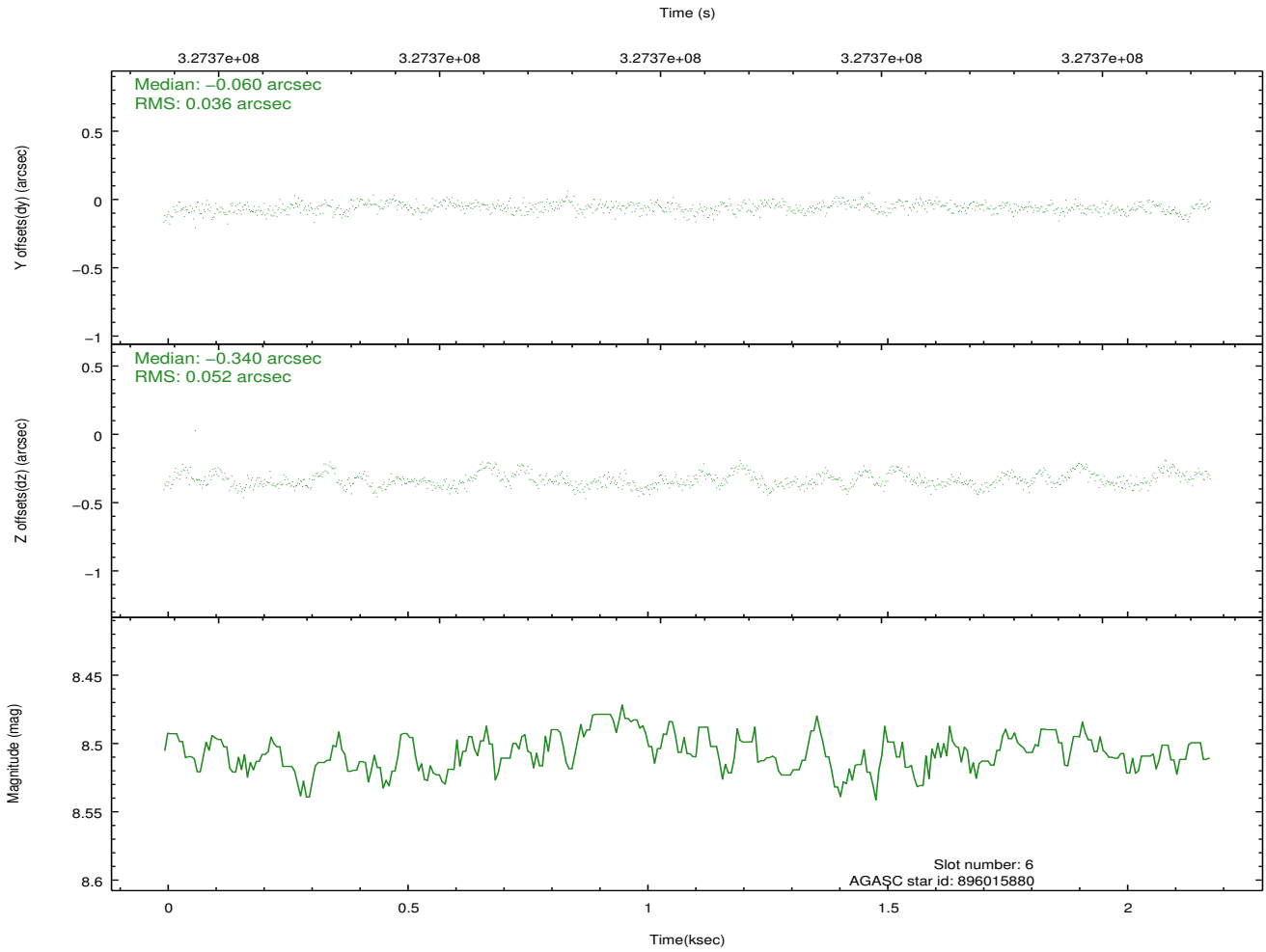
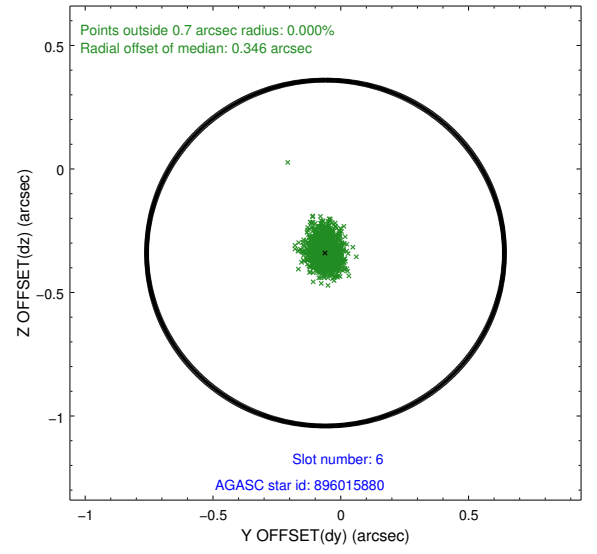
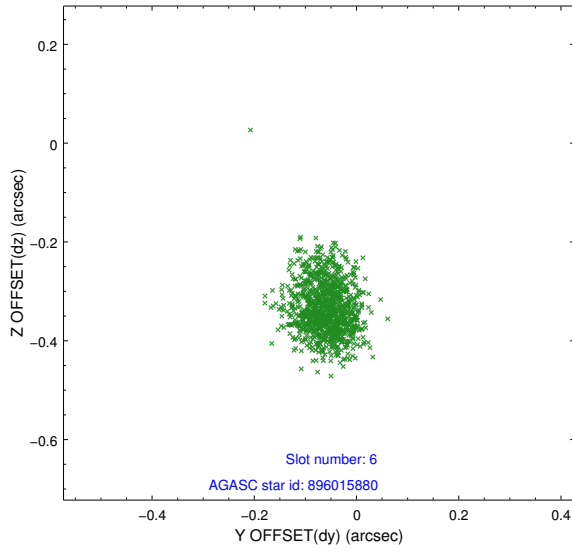
## 2.4.2 Slot 4



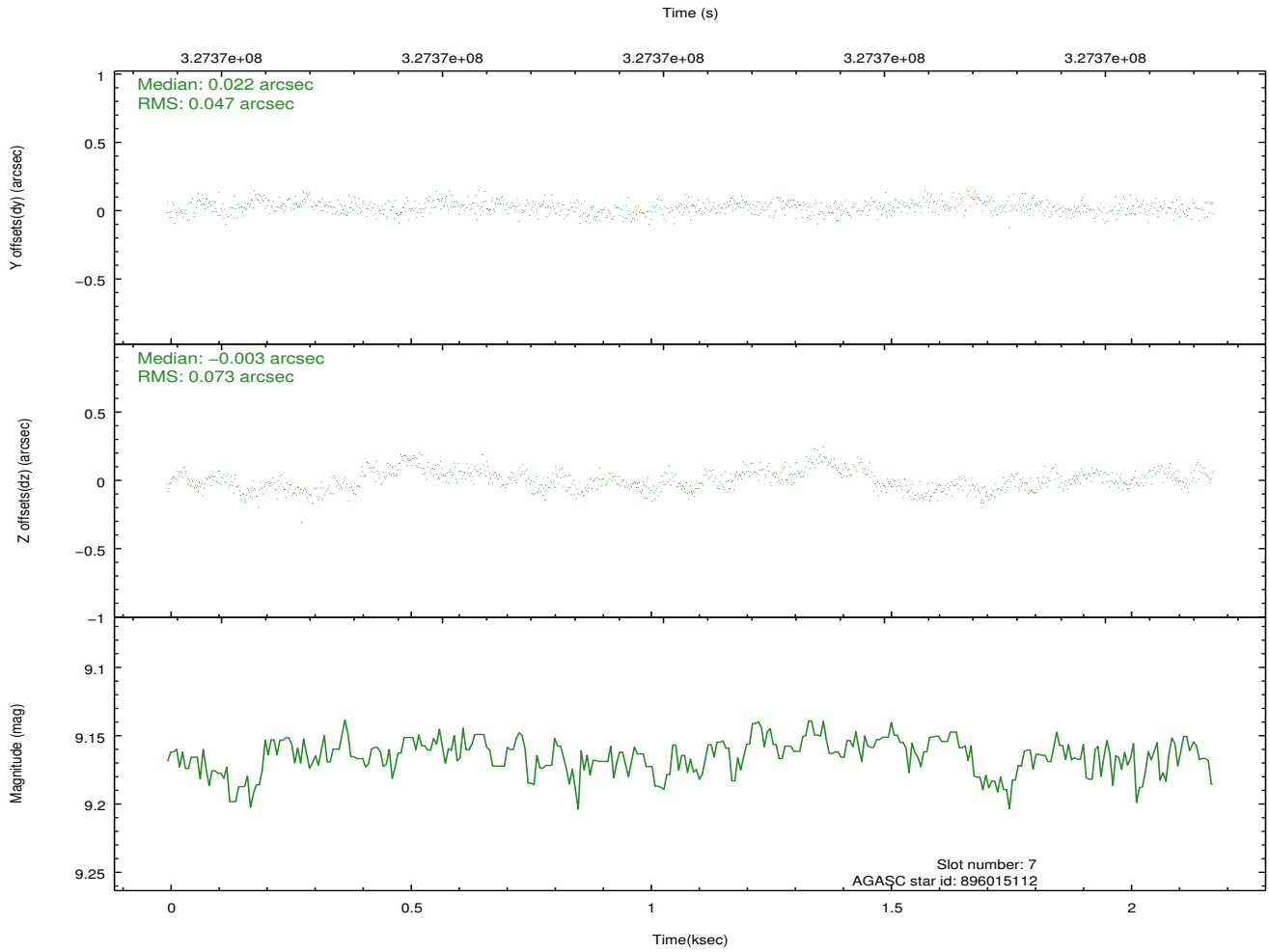
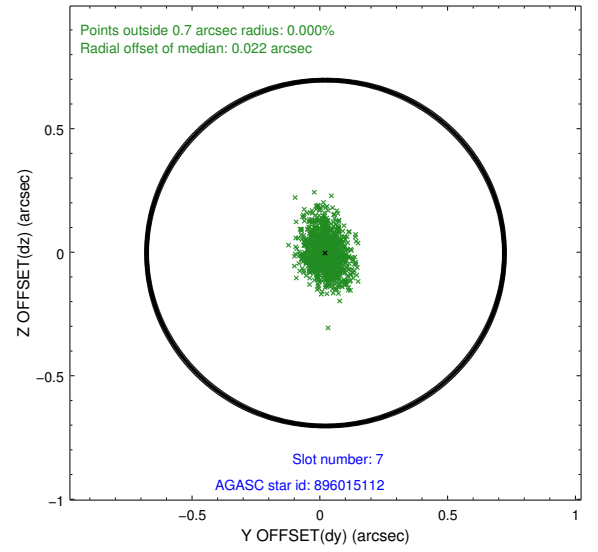
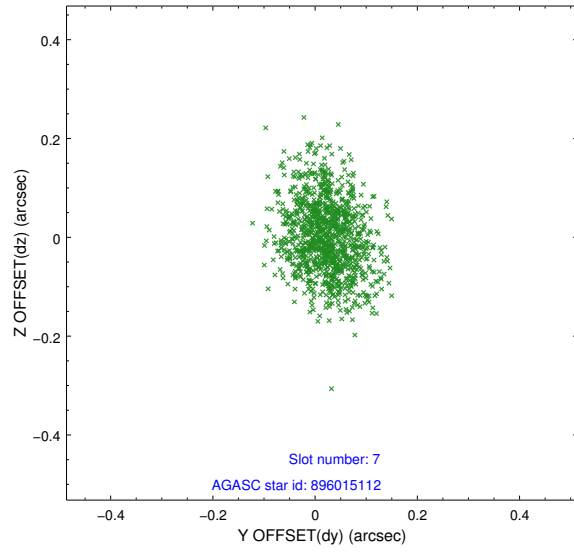
### 2.4.3 Slot 5



## 2.4.4 Slot 6

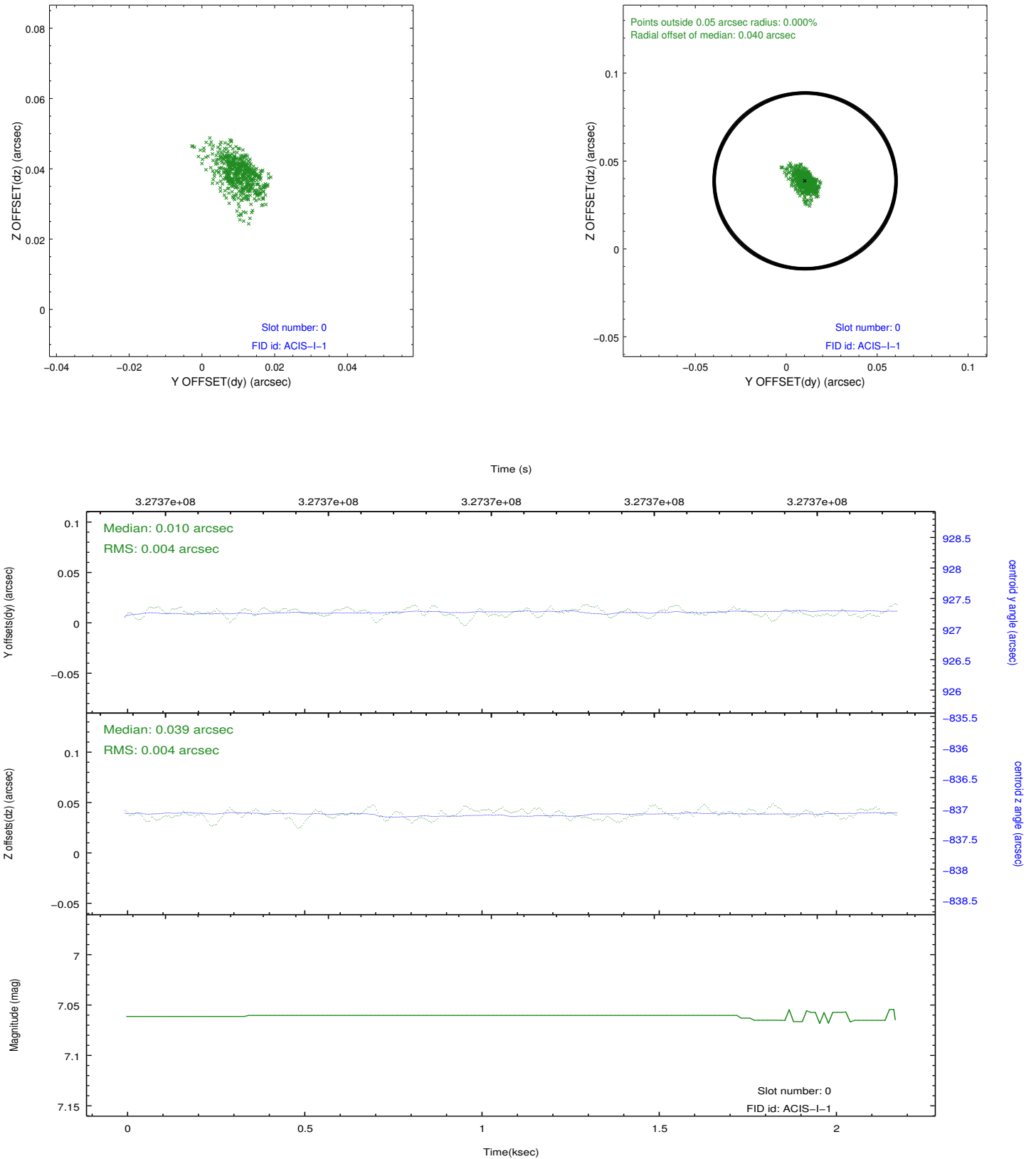


## 2.4.5 Slot 7

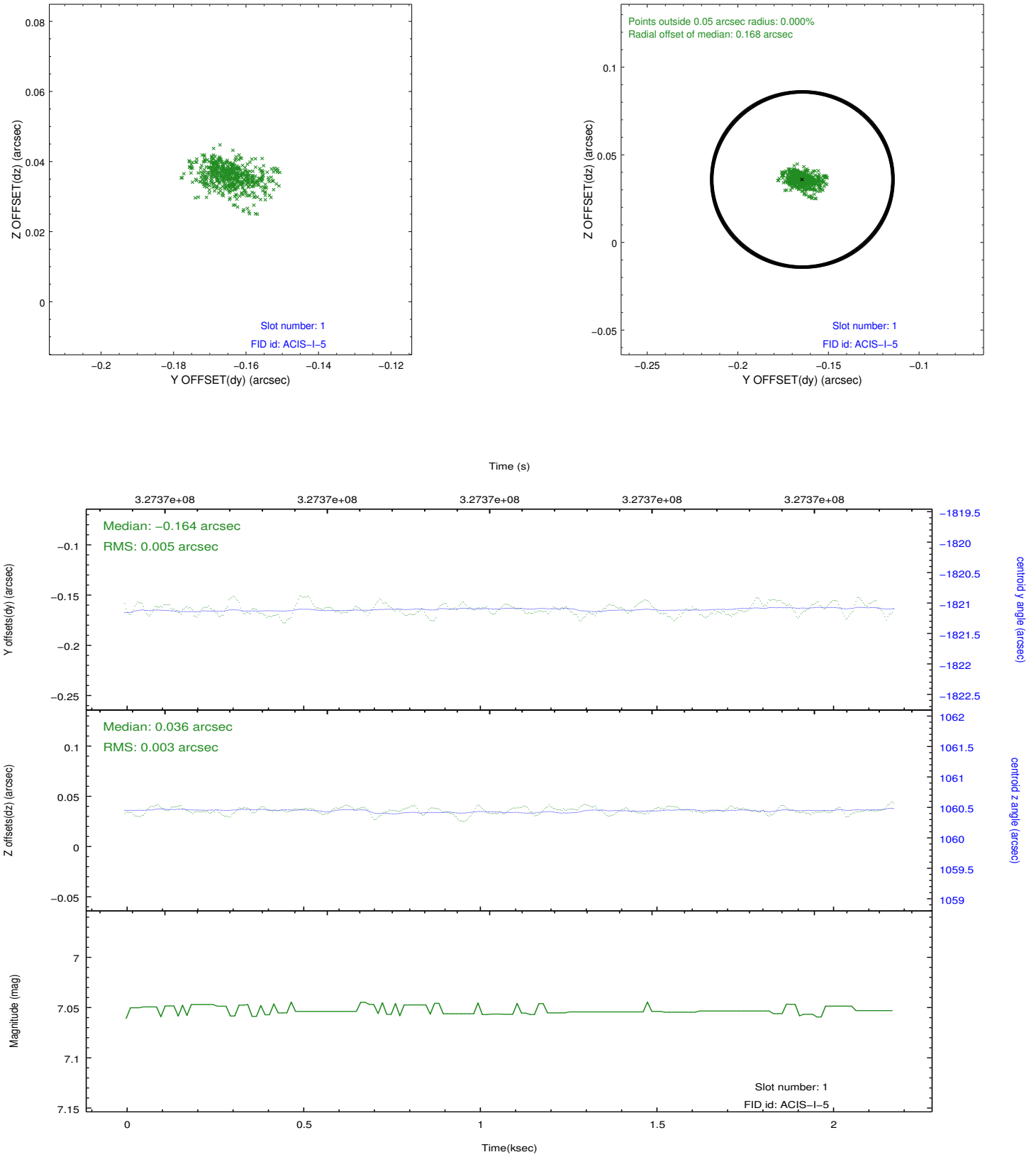


## 2.5 FID Slots

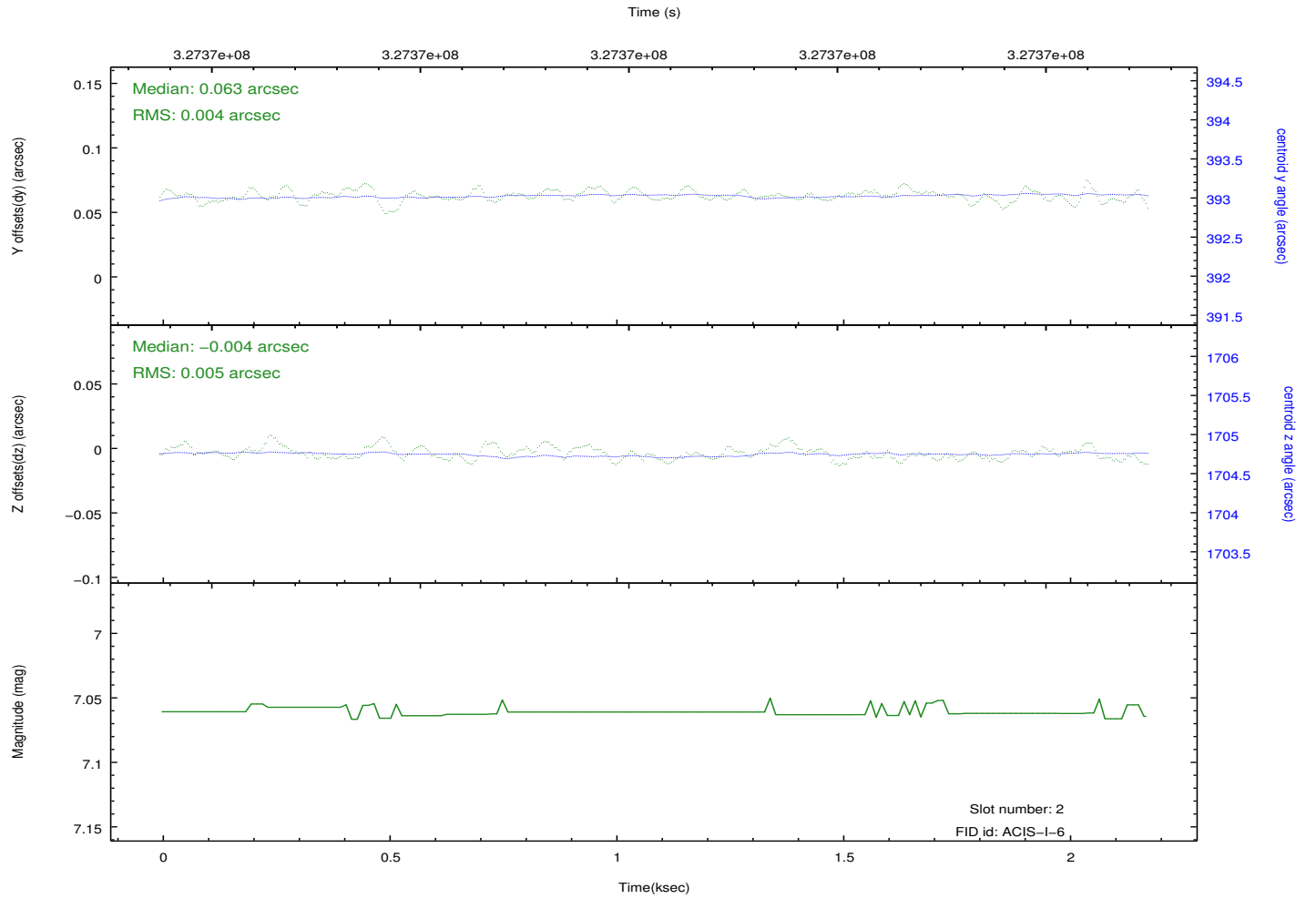
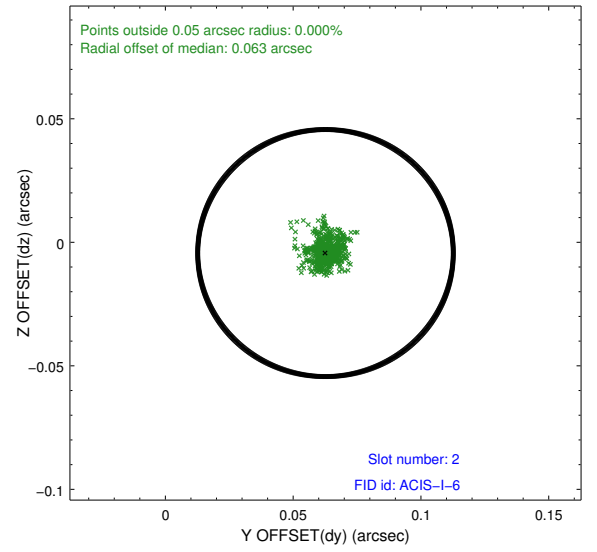
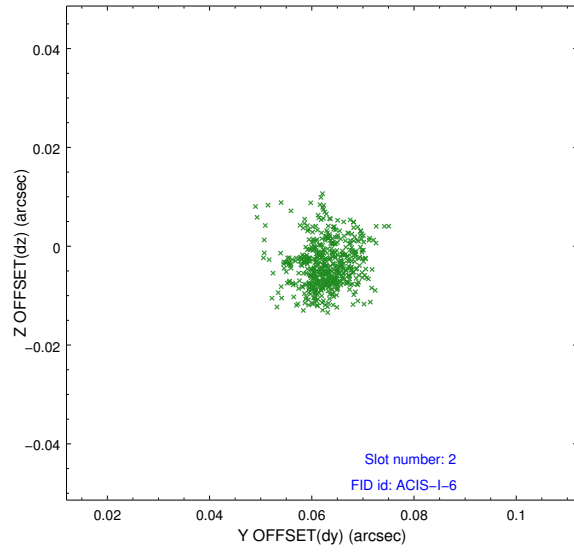
### 2.5.1 Slot 0



## 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	2.17930001

### A.2 Comments