

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 8742 - L2 Version 2  
Chandra X-Ray Center

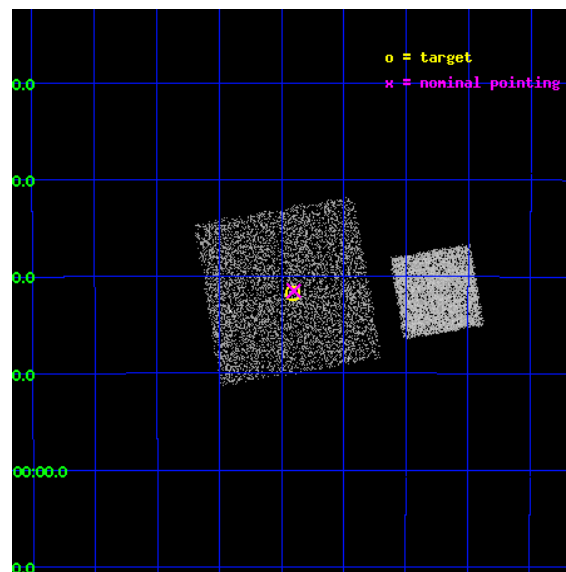
L2 Processing Date : May 14 2012

## 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

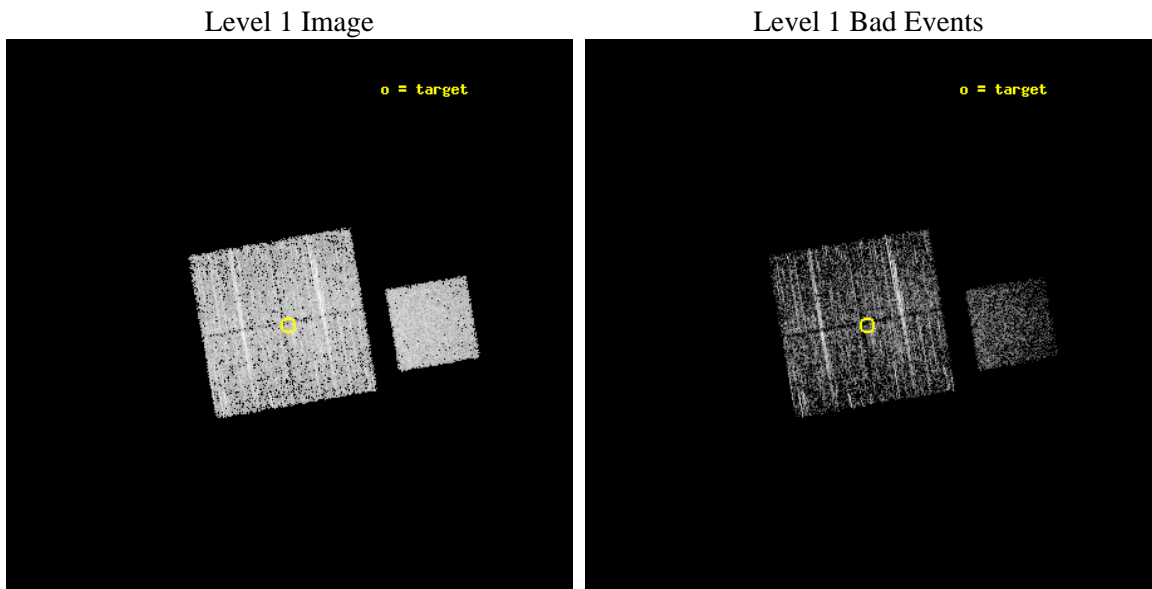
seq_num	400793	Sequence number
obs_id	8742	Observation id
title	The Galactic Bulge Survey: categorising the plethora of faint X-ray sources in the Galactic Bulge	Proposal title
observer	dr Peter Jonker	Principal investigator
object	GBS1	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	267.352088	Observer's specified target RA [deg]
dec_targ	-29.696305	Observer's specified target Dec [deg]
ra_nom	267.35005987904	Nominal RA [deg]
dec_nom	-29.691634759625	Nominal Dec [deg]
roll_nom	80.207709437928	Nominal Roll [deg]
revision	2	Processing version of data
ontime	2176.200016737	Sum of GTIs [s]
livetime	2147.7663614232	Livetime [s]
ontime0	2176.200016737	Sum of GTIs [s]
ontime1	2173.0590065122	Sum of GTIs [s]
ontime2	2176.200016737	Sum of GTIs [s]
ontime3	2176.200016737	Sum of GTIs [s]
ontime7	2176.200016737	Sum of GTIs [s]
l2events	16493	Number of level 2 events



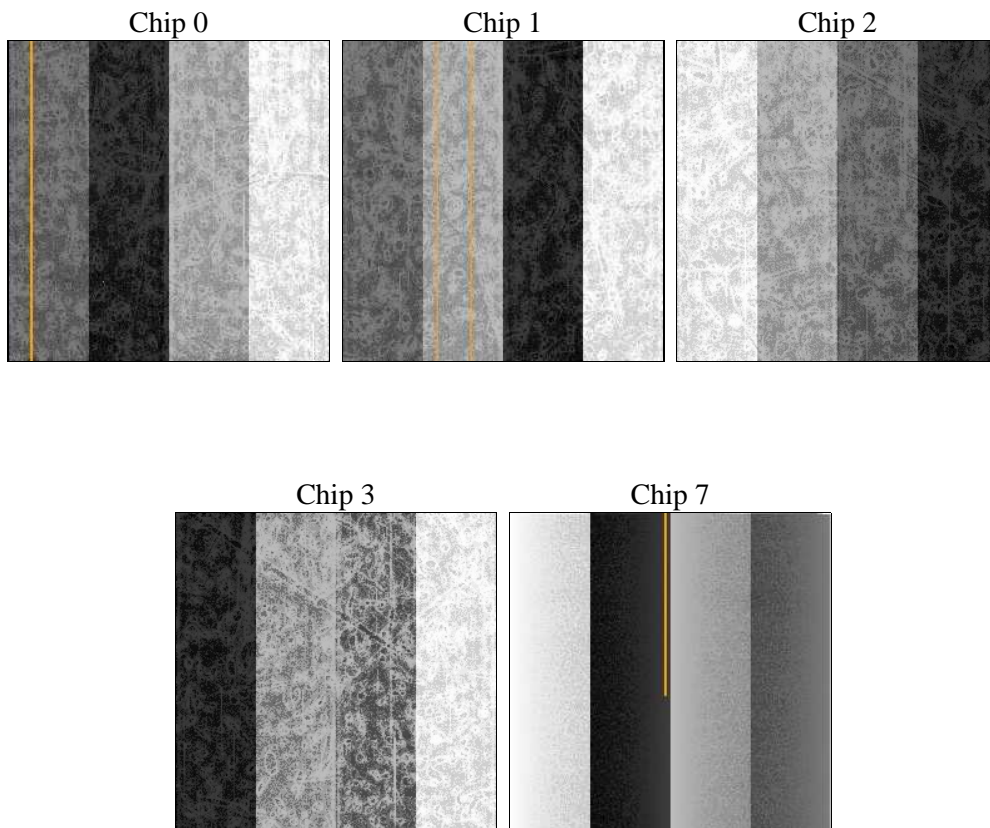
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	2176.200016737	Sum of GTIs [s]
caldbver	4.4.9	&#160	ontime0	2176.200016737	Sum of GTIs [s]
date	2012-05-14T23:39:18	Date and time of file creation	ontime1	2173.0590065122	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	2176.200016737	Sum of GTIs [s]
			ontime3	2176.200016737	Sum of GTIs [s]
			ontime7	2176.200016737	Sum of GTIs [s]
			l1events	98211	Number of level 1 events

### 2.1.4 Events

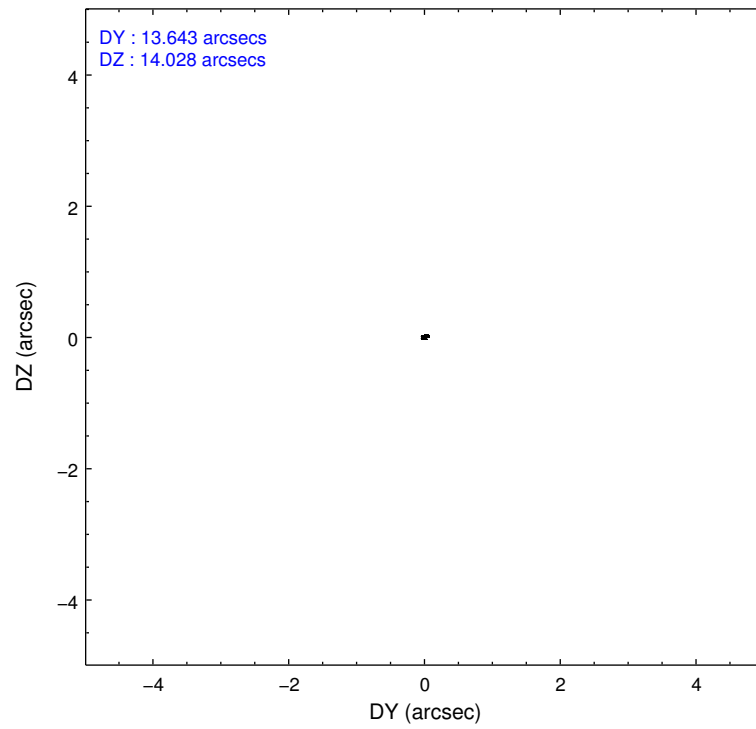
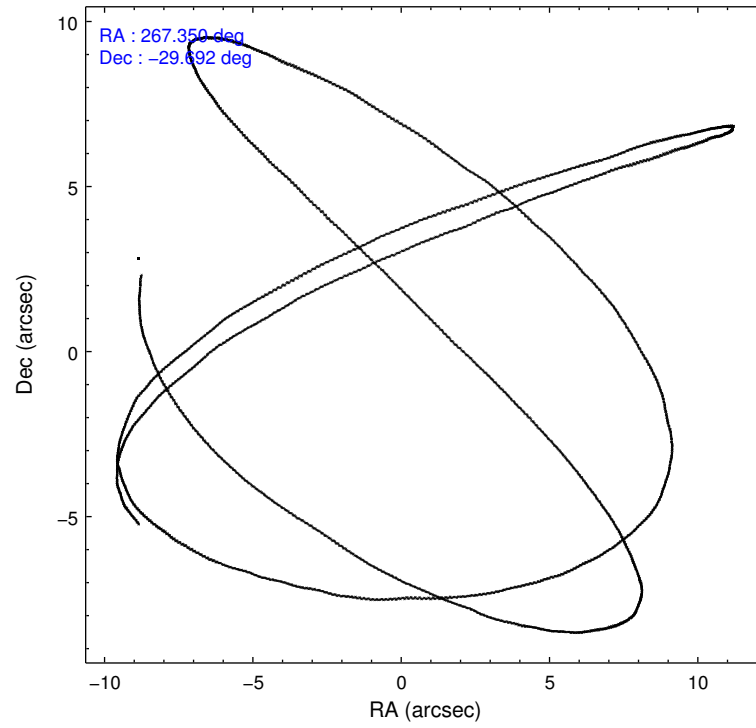
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	18373	18787	20317	19246	21488
rejected events	16055	16370	18128	17233	12261
rejected %	87%	87%	89%	89%	57%

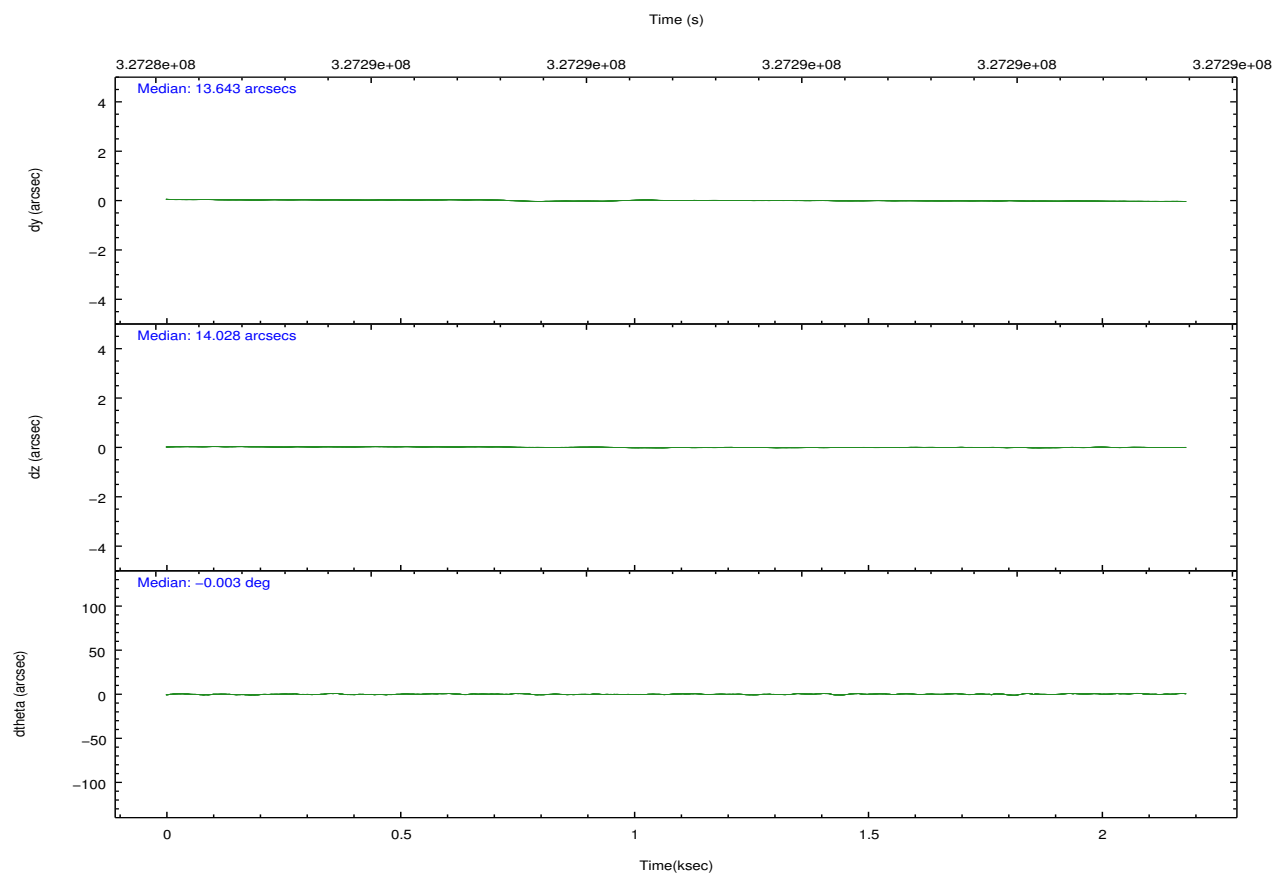
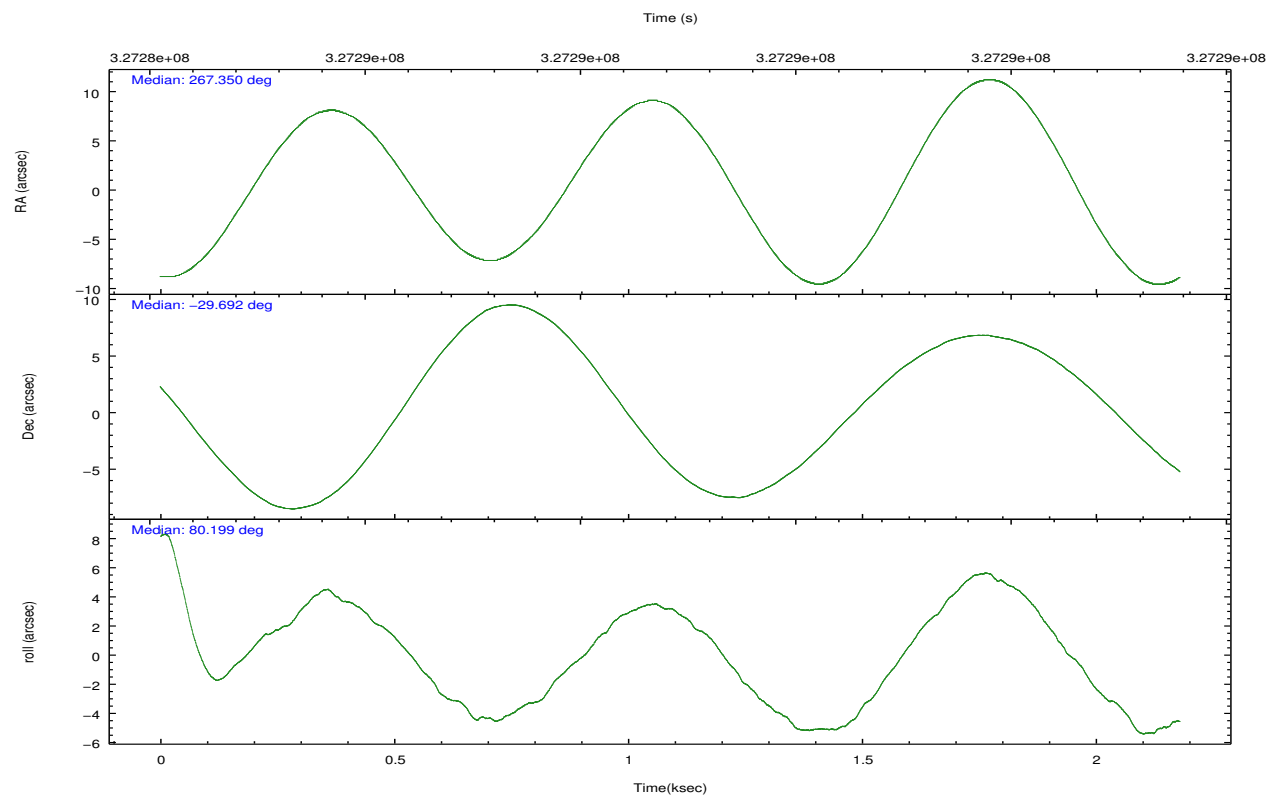
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
grade 0 events	1174	1111	1069	918	996
	6%	5%	5%	4%	4%
grade 1 events	13	12	6	15	18
	0%	0%	0%	0%	0%
grade 2 events	539	565	512	428	2115
	2%	3%	2%	2%	9%
grade 3 events	232	232	212	233	896
	1%	1%	1%	1%	4%
grade 4 events	217	241	224	229	878
	1%	1%	1%	1%	4%
grade 5 events	664	734	623	779	2188
	3%	3%	3%	4%	10%
grade 6 events	360	475	358	398	5230
	1%	2%	1%	2%	24%
grade 7 events	15174	15417	17313	16246	9167
	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	267.361261	267.350059879038	CCD I2 on	Y	Y
[deg] Pointing Dec	-29.717342	-29.69163475962497	CCD I3 on	Y	Y
[deg] Pointing Roll	80.004556	80.2077094379281	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)	327285299.184000	327284923.32402	CCD S5 on	N	N
Observation start date	2008-05-16T00:33:54	2008-05-16T00:28:43	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	327287299.184000	327287865.07416	On-chip summing requested	N	N
Observation end date	2008-05-16T01:07:14	2008-05-16T01:17:45	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect





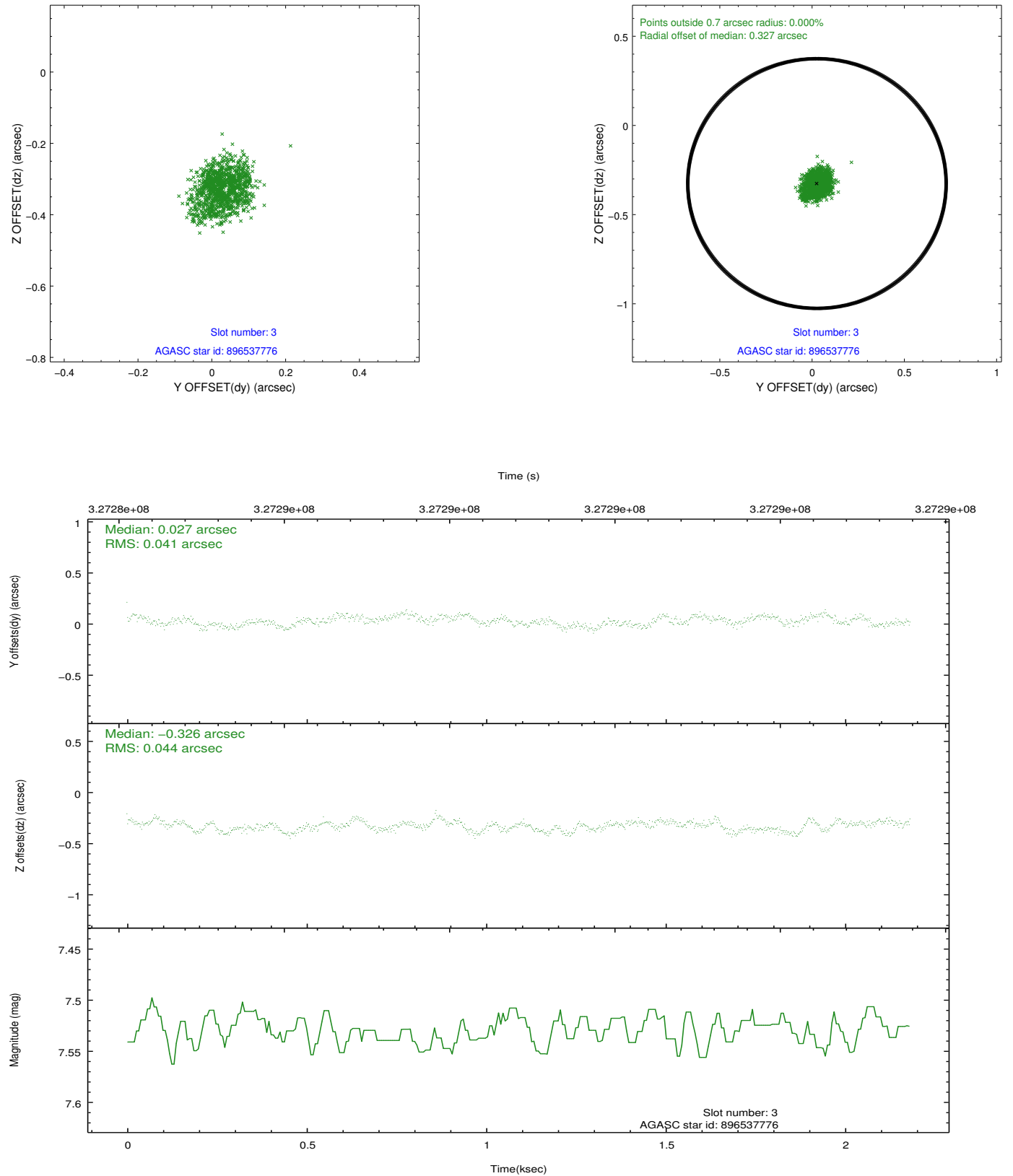
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.04	532	0.021	0.029	0.006	0.010	0.000000	0.000000	925.89	-837.56
1	FID	ACIS-I-5	7.03	533	-0.203	0.034	0.005	0.011	0.000000	0.000000	-1820.82	1058.39
2	FID	ACIS-I-6	7.04	531	0.091	0.007	0.007	0.012	0.000000	0.000000	388.20	1706.29
3	GUIDE	896537776	7.53	1065	0.027	-0.326	0.065	0.100	266.655684	-29.665673	-206.42	2204.13
4	GUIDE	898250872	7.03	1065	-0.205	0.381	0.042	0.068	268.026303	-29.632040	658.12	-1994.89
5	GUIDE	966926496	8.10	1065	0.258	-0.056	0.068	0.108	267.109389	-30.299474	-2199.50	404.91
6	GUIDE	896533888	7.03	1065	-0.157	-0.333	0.062	0.099	266.666434	-29.392757	763.94	2347.92
7	GUIDE	898248800	8.23	1064	0.078	0.331	0.063	0.108	267.977609	-29.931731	-429.85	-2026.36

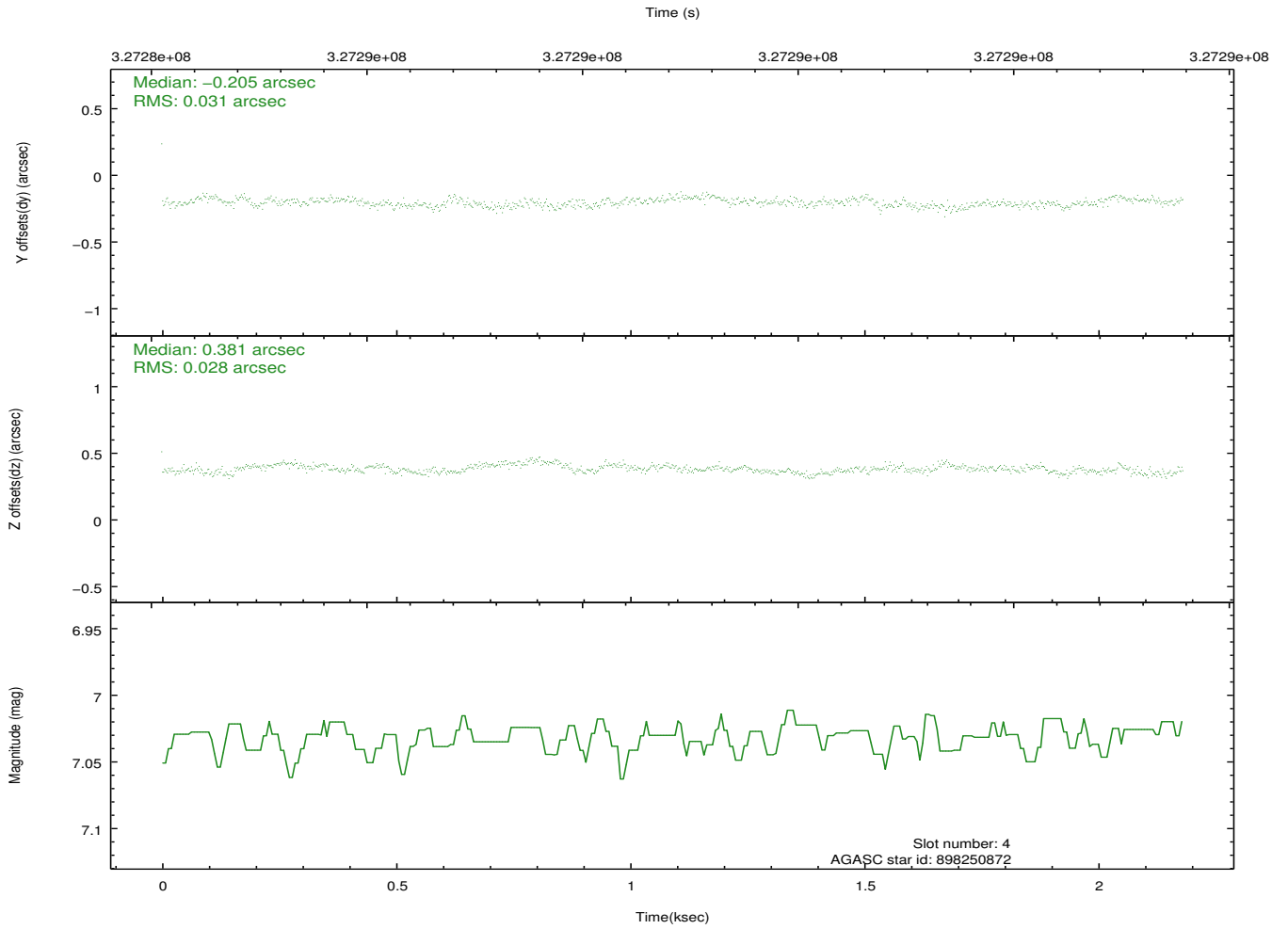
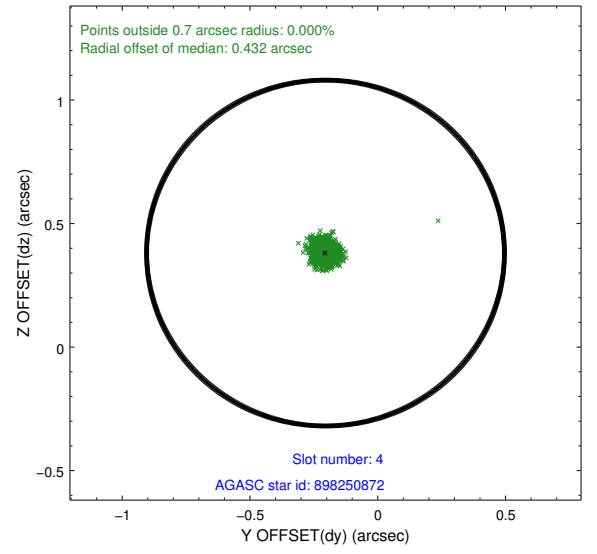
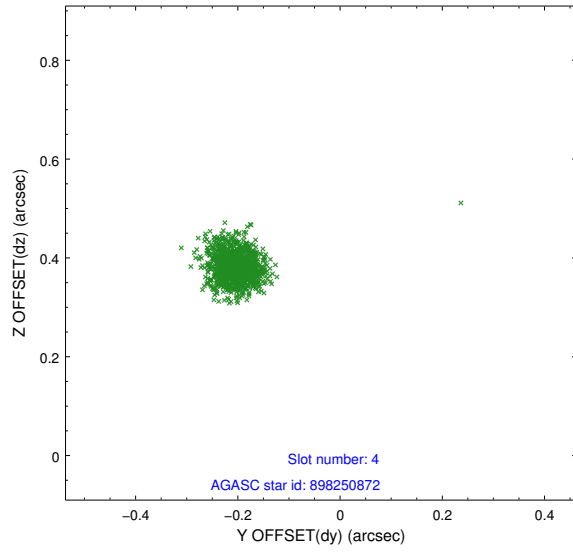


## 2.4 Star Slots

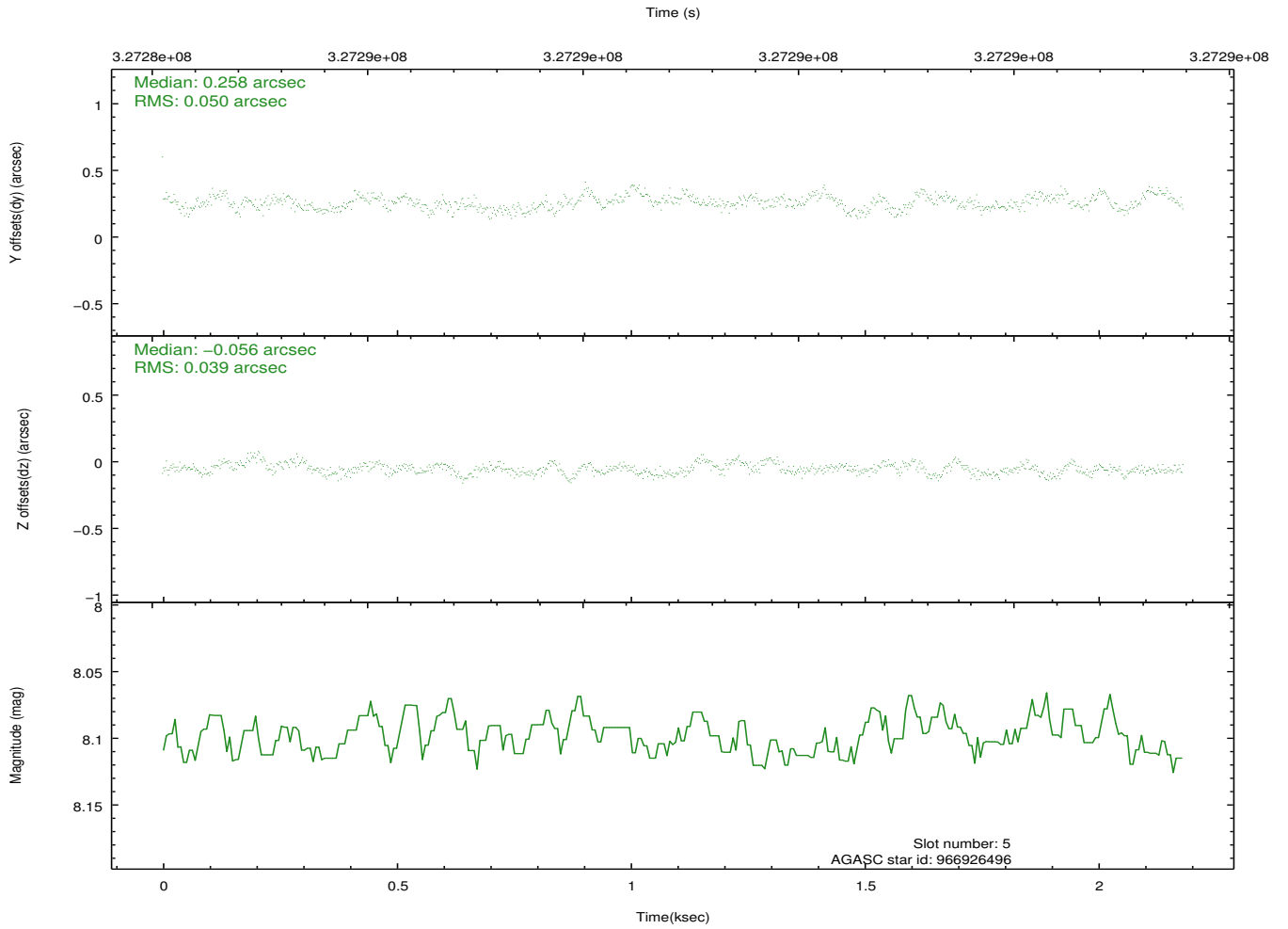
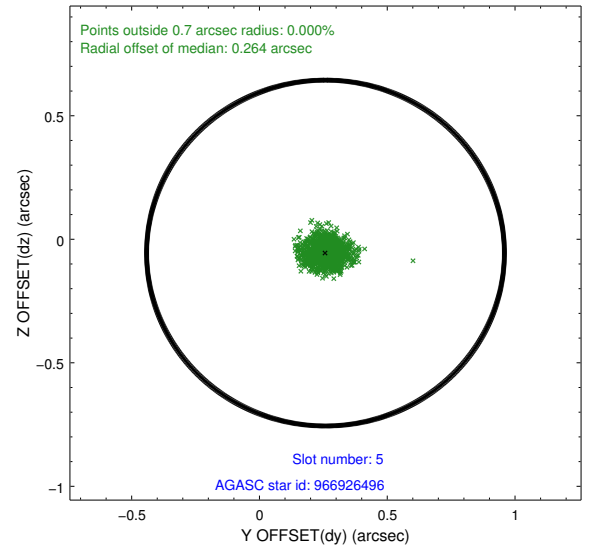
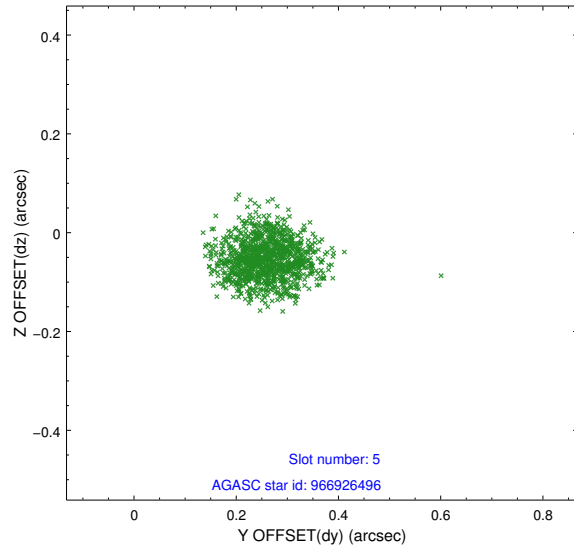
### 2.4.1 Slot 3



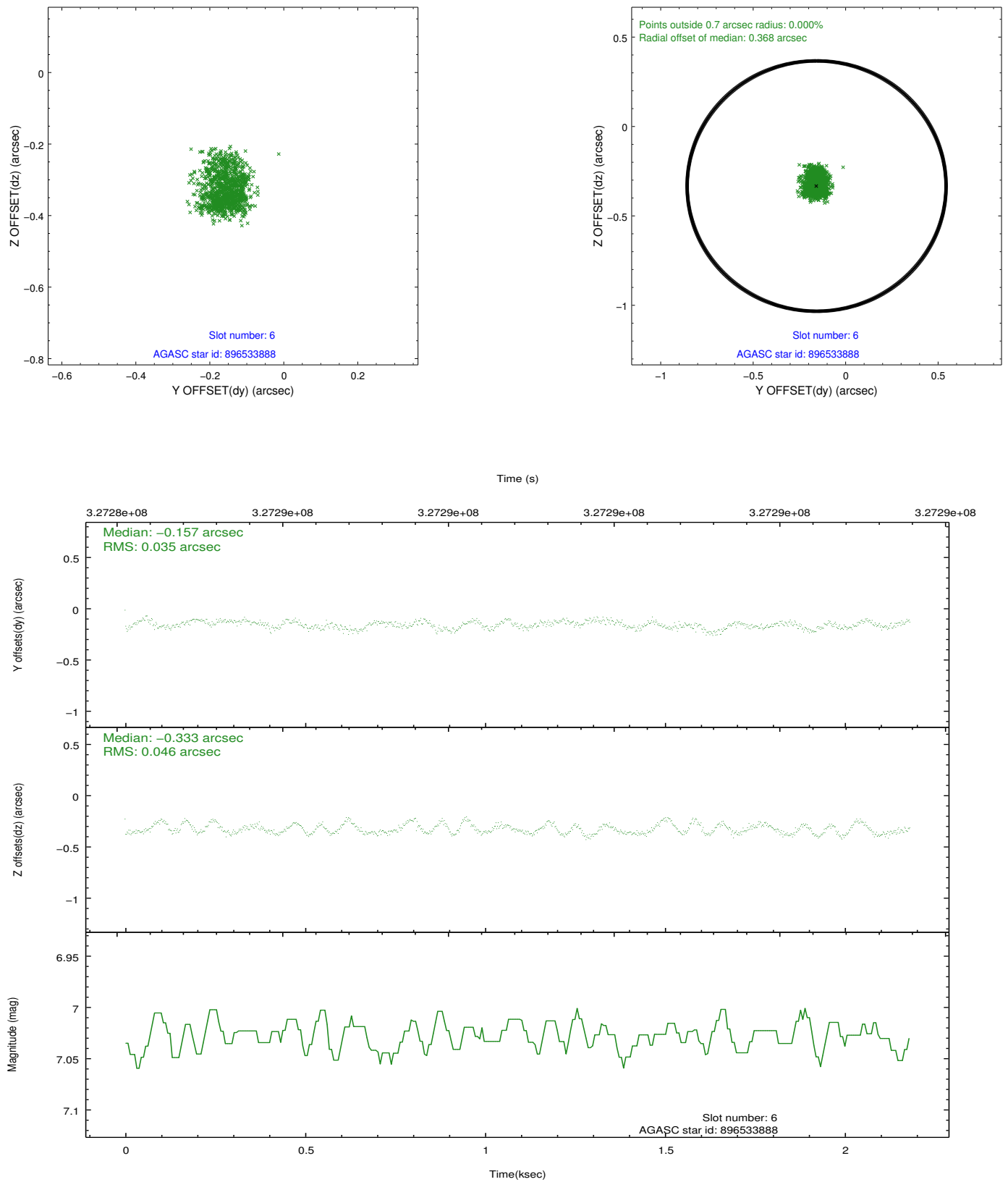
## 2.4.2 Slot 4



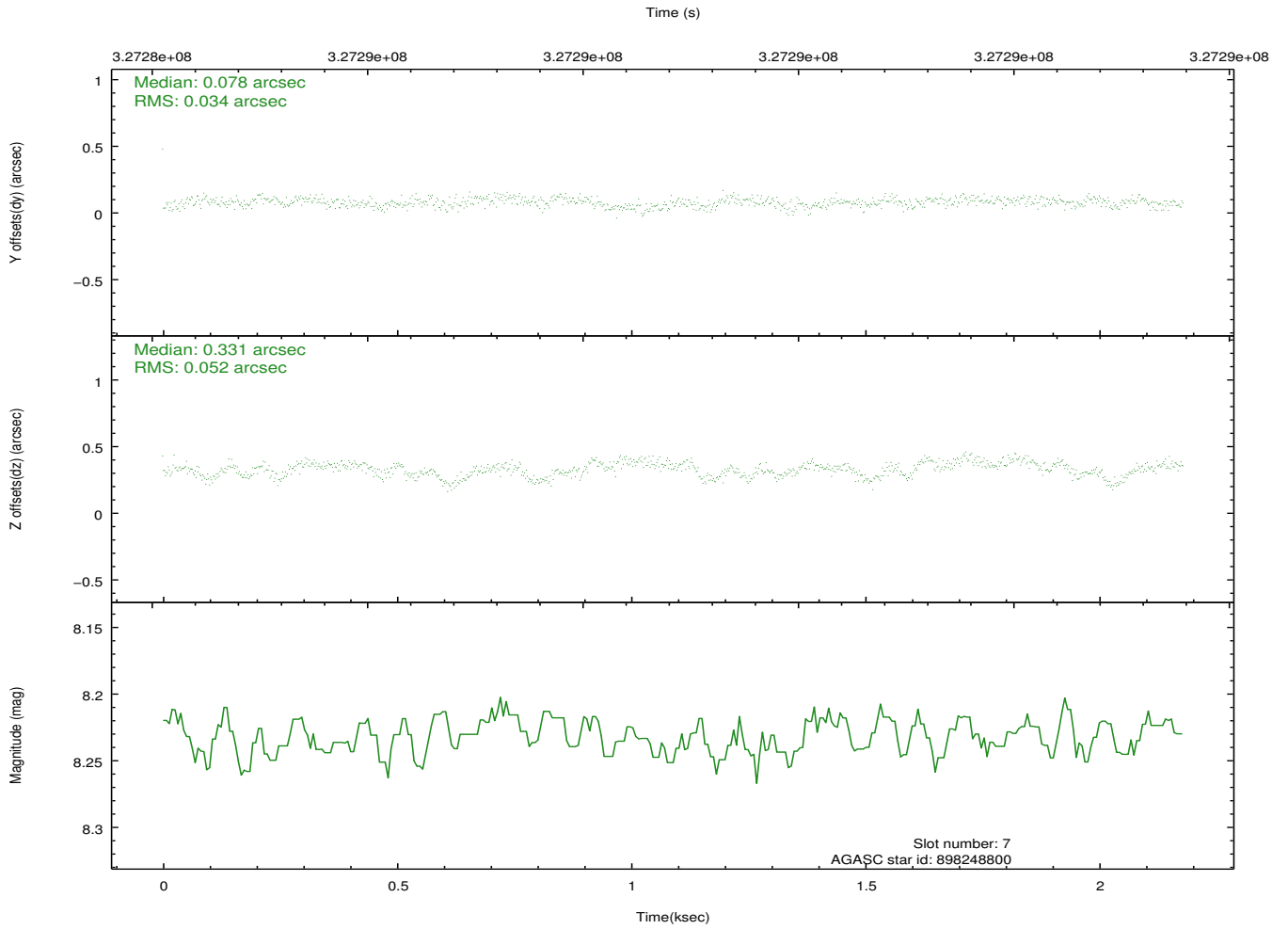
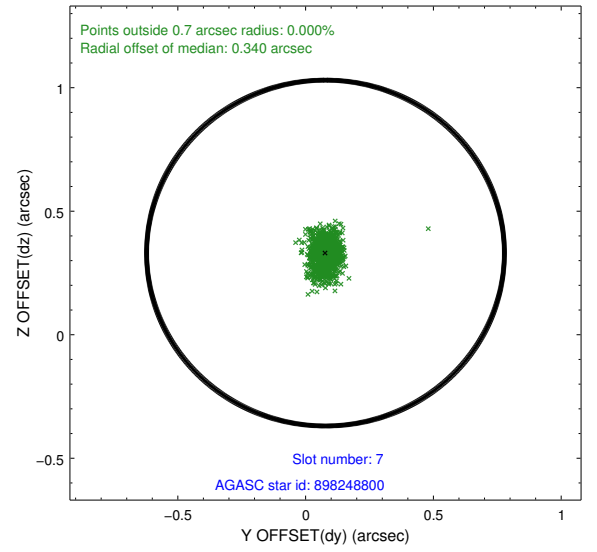
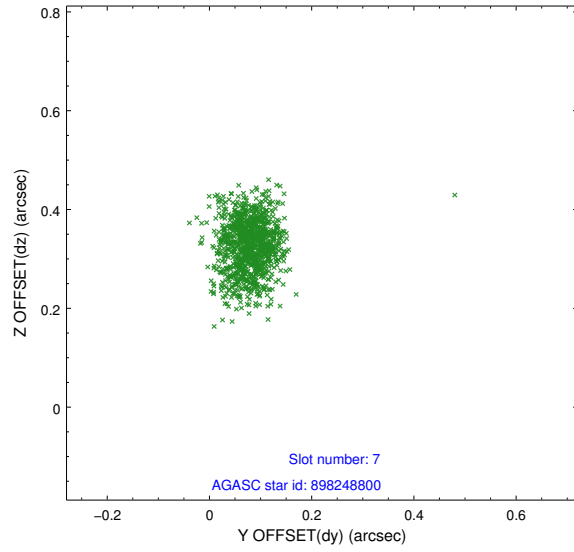
### 2.4.3 Slot 5



## 2.4.4 Slot 6

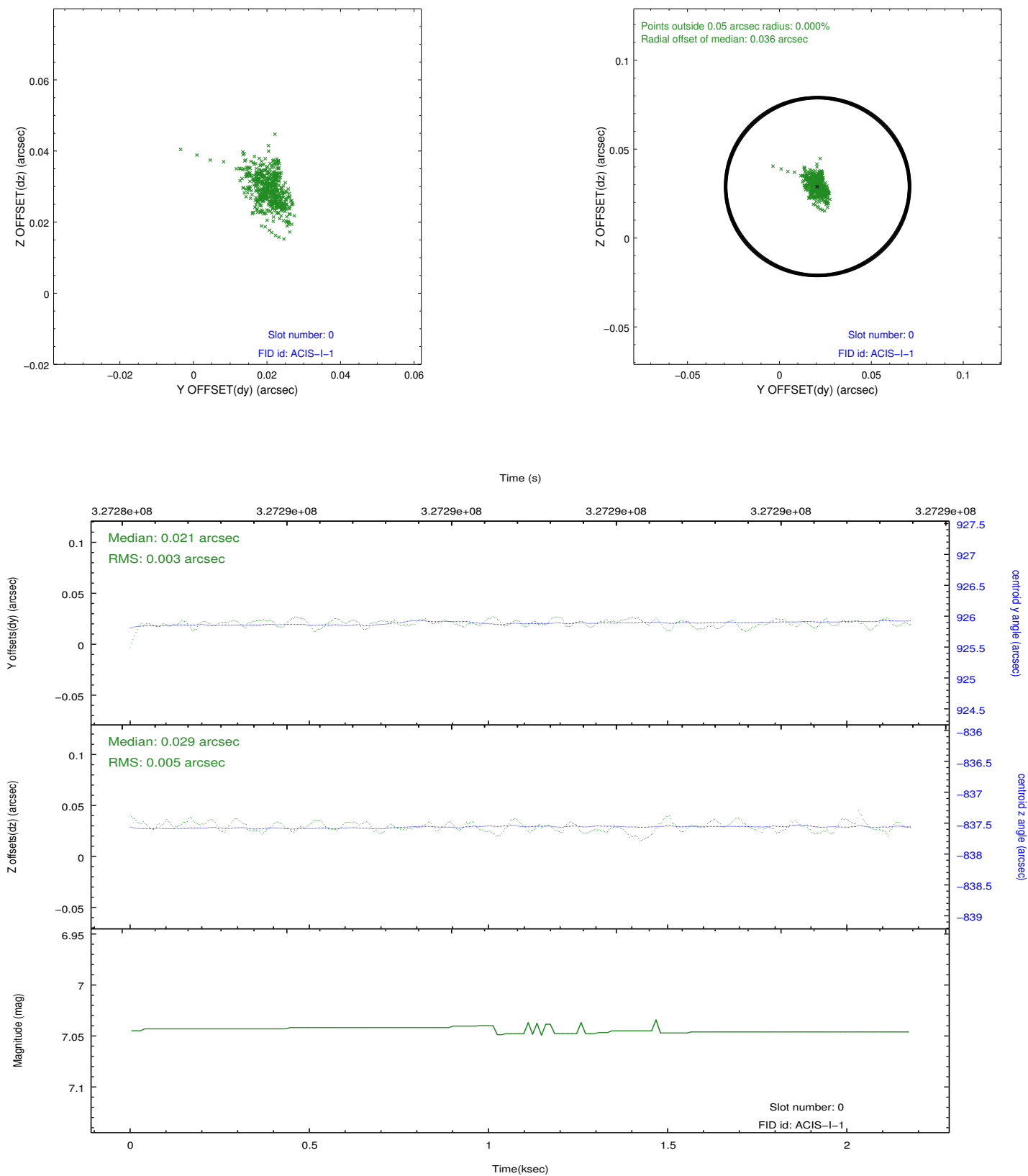


## 2.4.5 Slot 7

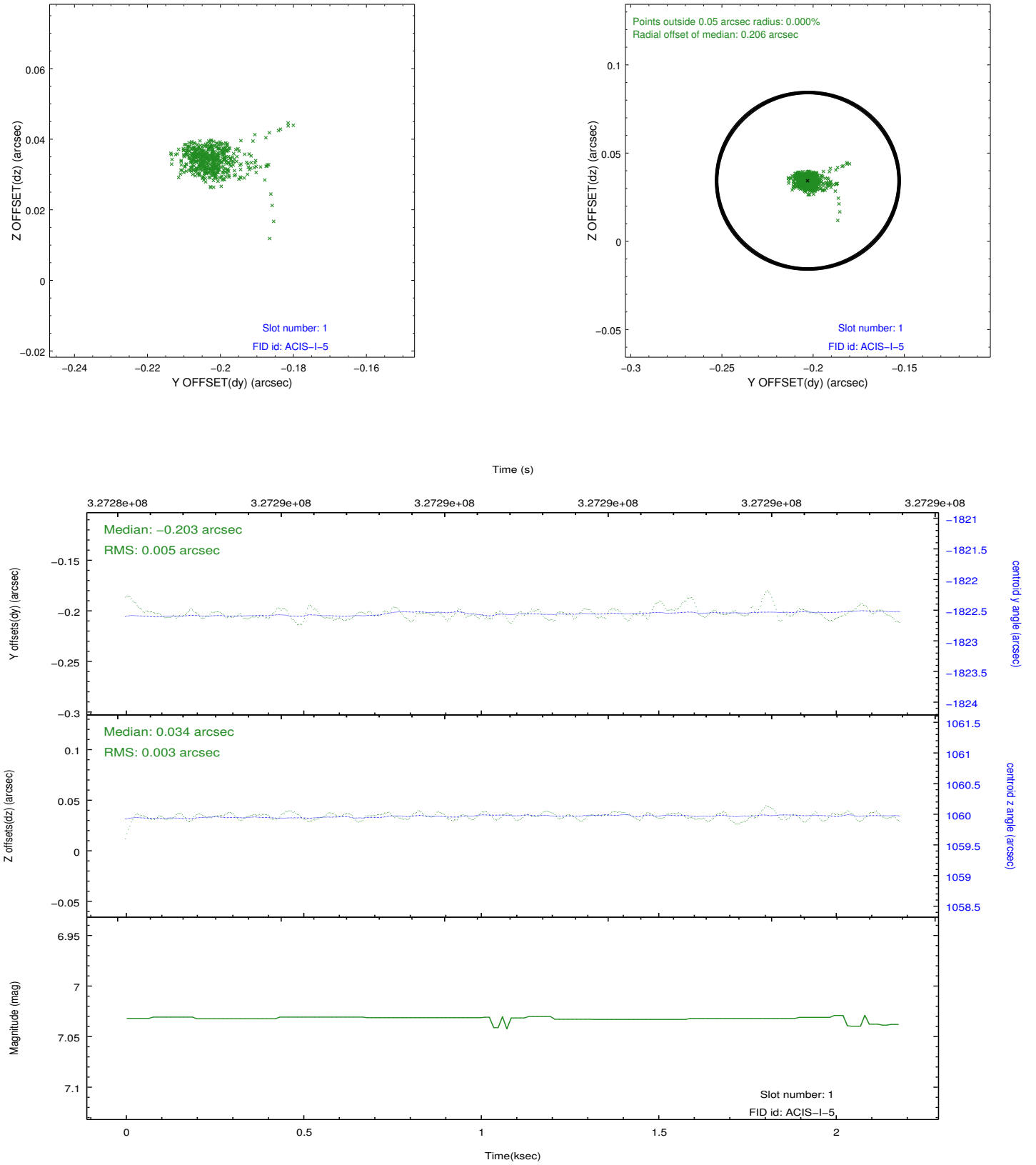


## 2.5 FID Slots

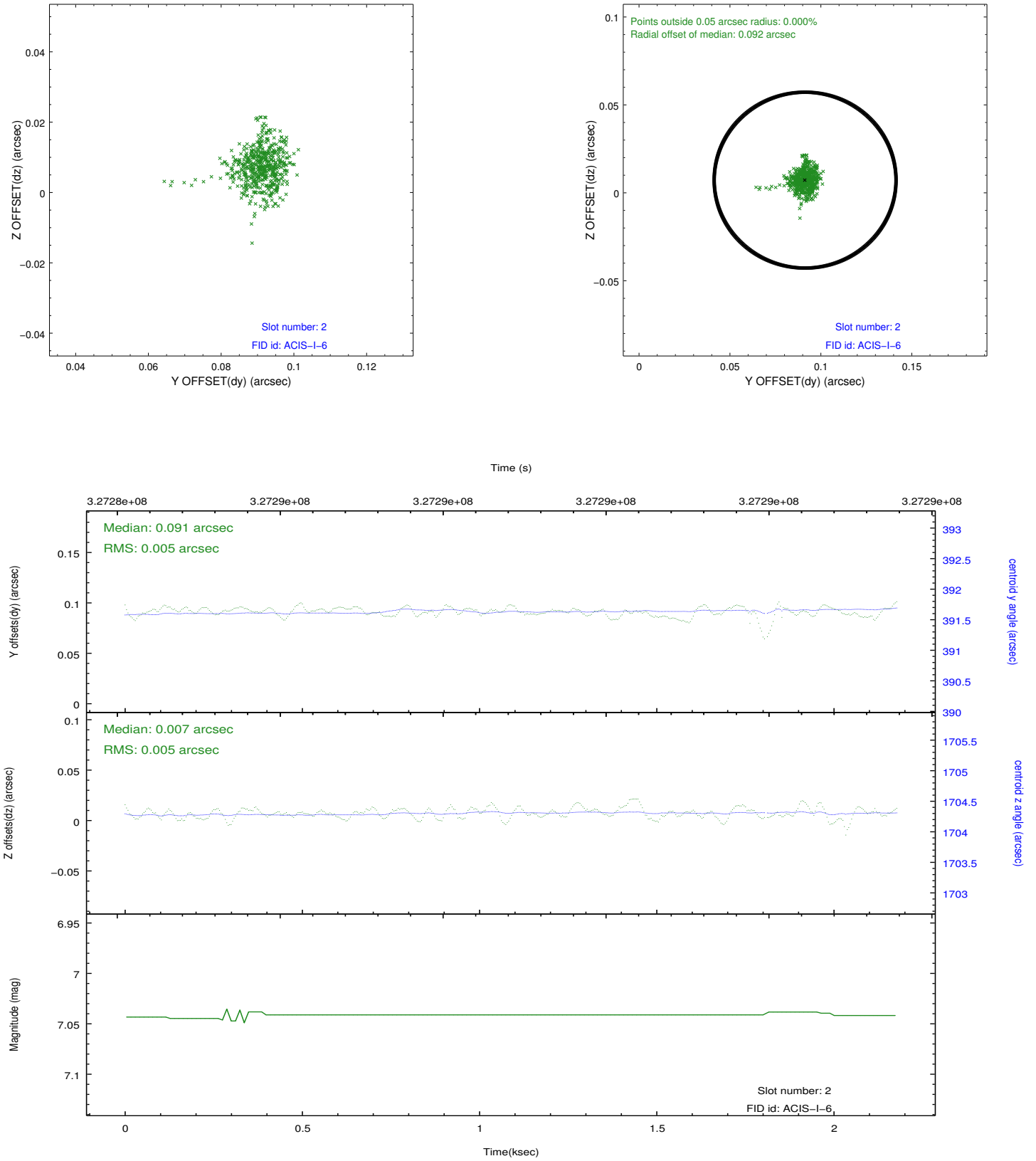
### 2.5.1 Slot 0



## 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	2.17620001

## A.2 Comments

Joint proposal with NOAO.