

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 8758 - L2 Version 2  
Chandra X-Ray Center

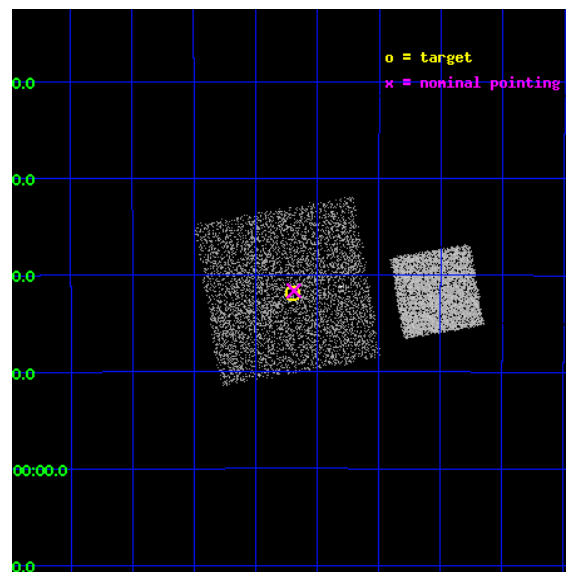
L2 Processing Date : May 14 2012

## 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

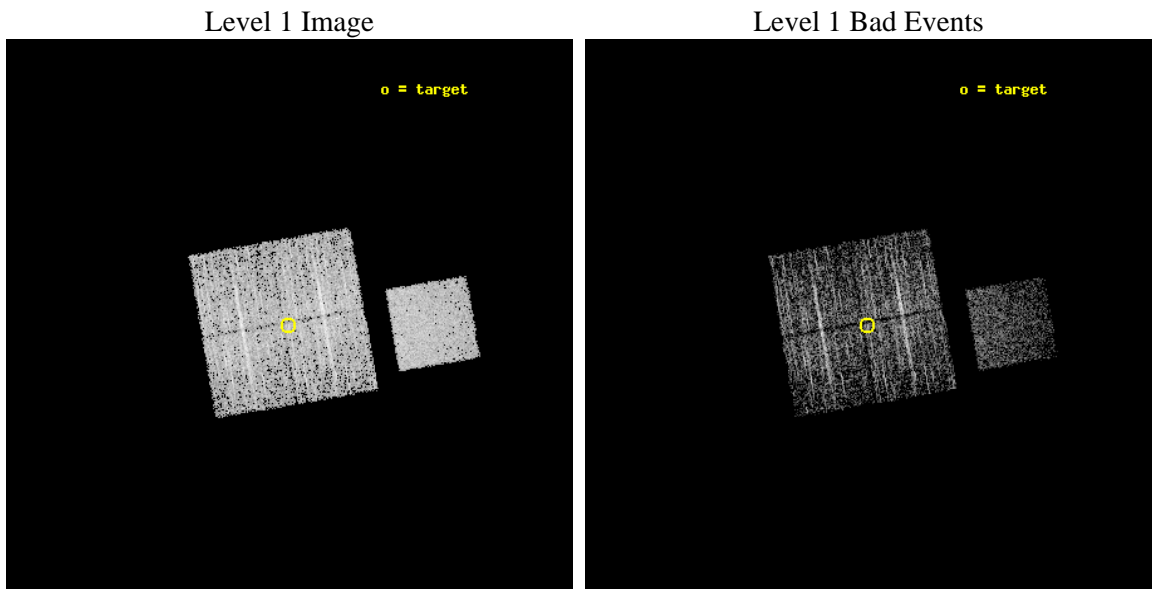
seq_num	400809	Sequence number
obs_id	8758	Observation id
title	The Galactic Bulge Survey: categorising the plethora of faint X-ray sources in the Galactic Bulge	Proposal title
observer	dr Peter Jonker	Principal investigator
object	GBS1	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	266.924426	Observer's specified target RA [deg]
dec_targ	-30.698652	Observer's specified target Dec [deg]
ra_nom	266.92245471686	Nominal RA [deg]
dec_nom	-30.693984909612	Nominal Dec [deg]
roll_nom	80.207696704661	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	2182.4000167847	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	15126	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	2182.4000167847	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime0	2182.4000167847	Sum of GTIs [s]
date	2012-05-14T20:55:14	Date and time of file creation	ontime1	2182.4000167847	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	98574	Number of level 1 events

### 2.1.4 Events

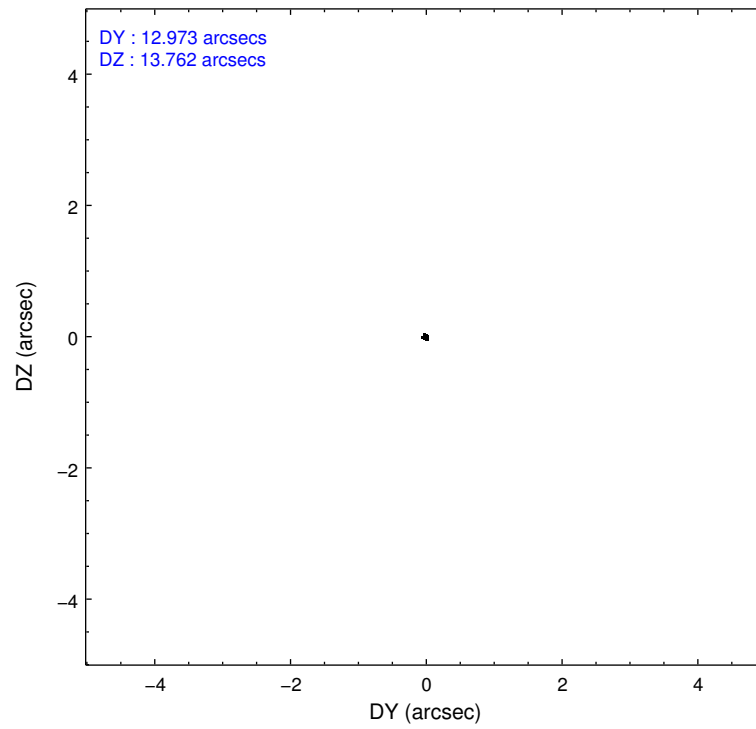
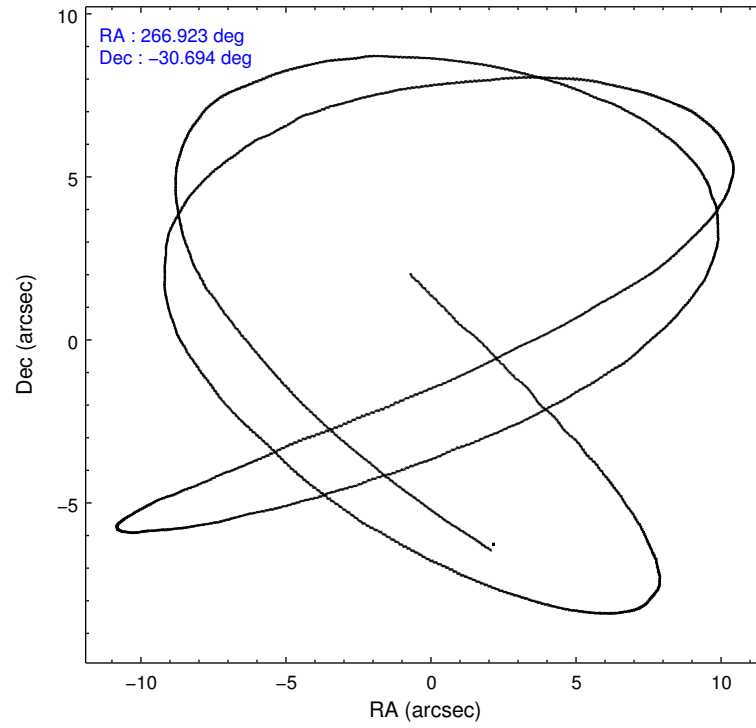
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	18814	17892	21137	18920	21811
rejected events	16799	15729	19123	17143	13027
rejected %	89%	87%	90%	90%	59%

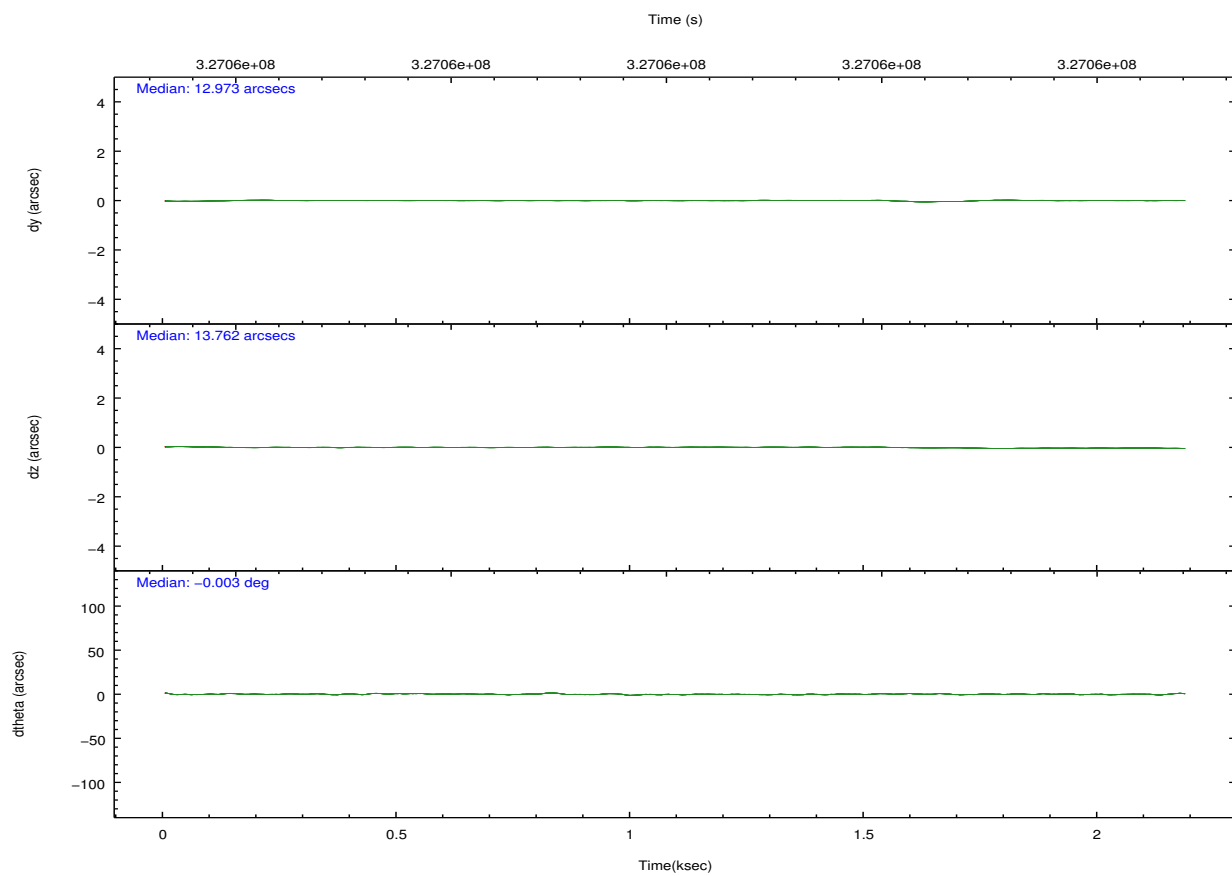
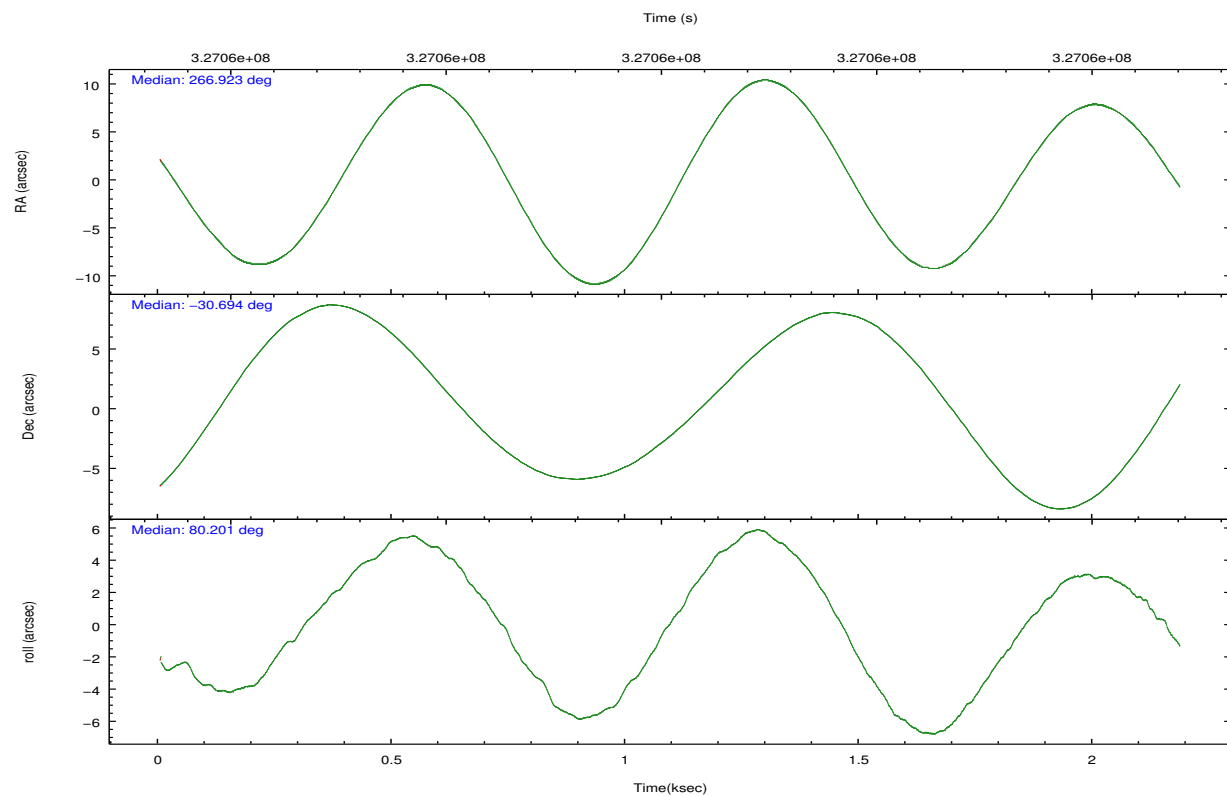
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
grade 0 events	882	1046	960	820	924
	4%	5%	4%	4%	4%
grade 1 events	5	4	12	18	24
	0%	0%	0%	0%	0%
grade 2 events	525	531	480	421	2110
	2%	2%	2%	2%	9%
grade 3 events	243	232	237	216	926
	1%	1%	1%	1%	4%
grade 4 events	240	241	198	219	909
	1%	1%	0%	1%	4%
grade 5 events	696	779	667	805	2281
	3%	4%	3%	4%	10%
grade 6 events	398	420	410	375	5196
	2%	2%	1%	1%	23%
grade 7 events	15825	14639	18173	16046	9441
	84%	81%	85%	84%	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	266.933702	266.9224547168632	CCD I2 on	Y	Y
[deg] Pointing Dec	-30.719686	-30.6939849096124	CCD I3 on	Y	Y
[deg] Pointing Roll	80.004744	80.20769670466072	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)	327058622.184000	327058245.58797	CCD S5 on	N	N
Observation start date	2008-05-13T09:35:57	2008-05-13T09:30:45	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	327060622.184000	327060755.81309	On-chip summing requested	N	N
Observation end date	2008-05-13T10:09:17	2008-05-13T10:12:35	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect





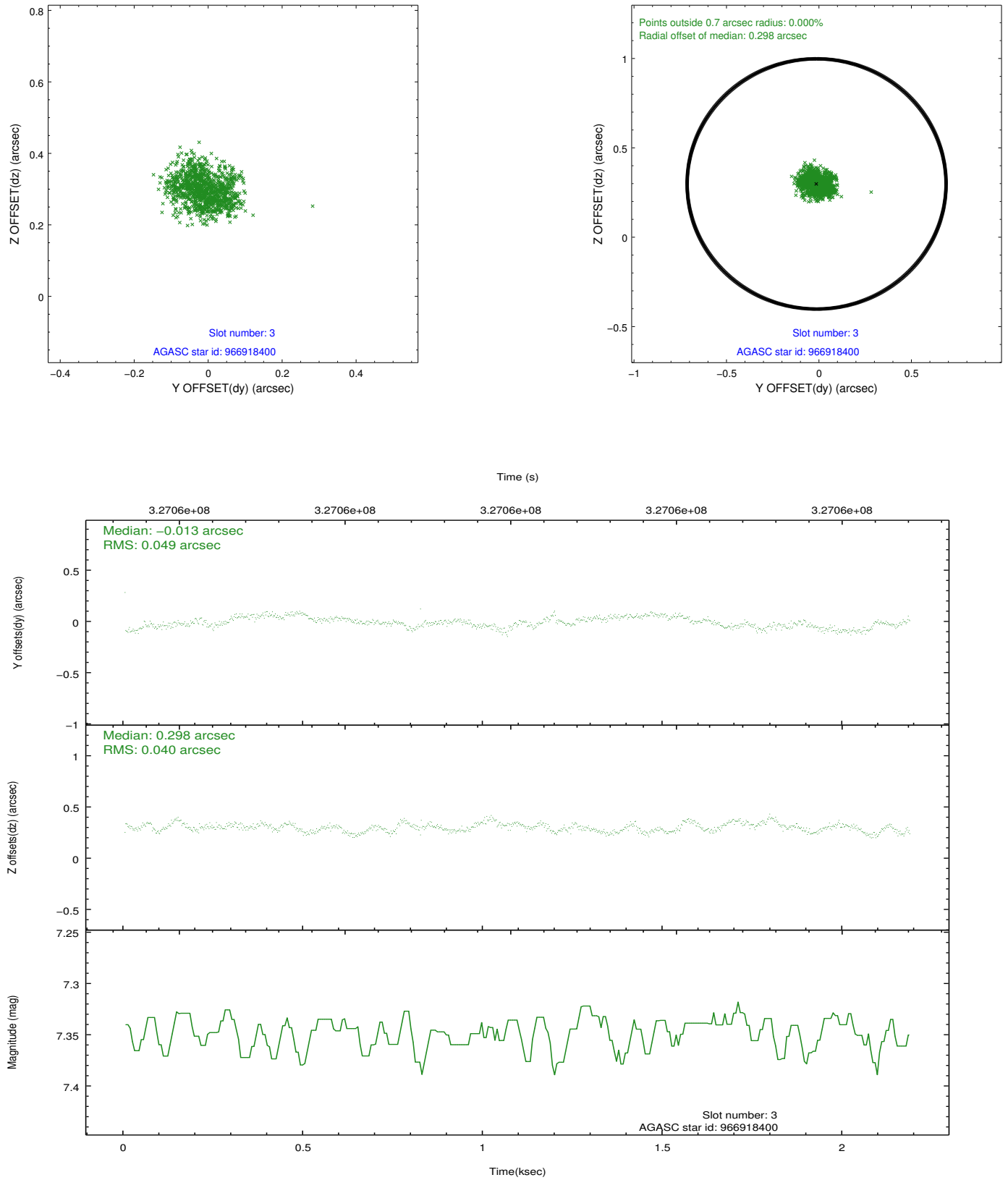
### Slot Statistics

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	533	0.011	0.041	0.006	0.010	0.000000	0.000000	926.57	-837.27
1	FID	ACIS-I-5	7.03	533	-0.175	0.034	0.006	0.010	0.000000	0.000000	-1820.10	1058.68
2	FID	ACIS-I-6	7.04	533	0.073	-0.004	0.006	0.011	0.000000	0.000000	388.90	1706.56
3	GUIDE	966918400	7.35	1066	-0.013	0.298	0.069	0.103	267.537101	-30.960086	-533.30	-1985.34
4	GUIDE	966925512	8.26	1066	0.073	-0.104	0.074	0.113	266.373606	-31.056700	-1499.21	1487.68
5	GUIDE	966918832	8.72	1066	-0.103	-0.200	0.086	0.140	266.278876	-30.183148	1541.43	2342.48
6	GUIDE	966923376	8.72	1066	0.118	-0.168	0.070	0.113	266.333558	-31.111316	-1712.63	1577.97
7	GUIDE	966920512	8.38	1065	-0.079	0.164	0.089	0.130	267.231170	-30.494681	955.53	-766.64

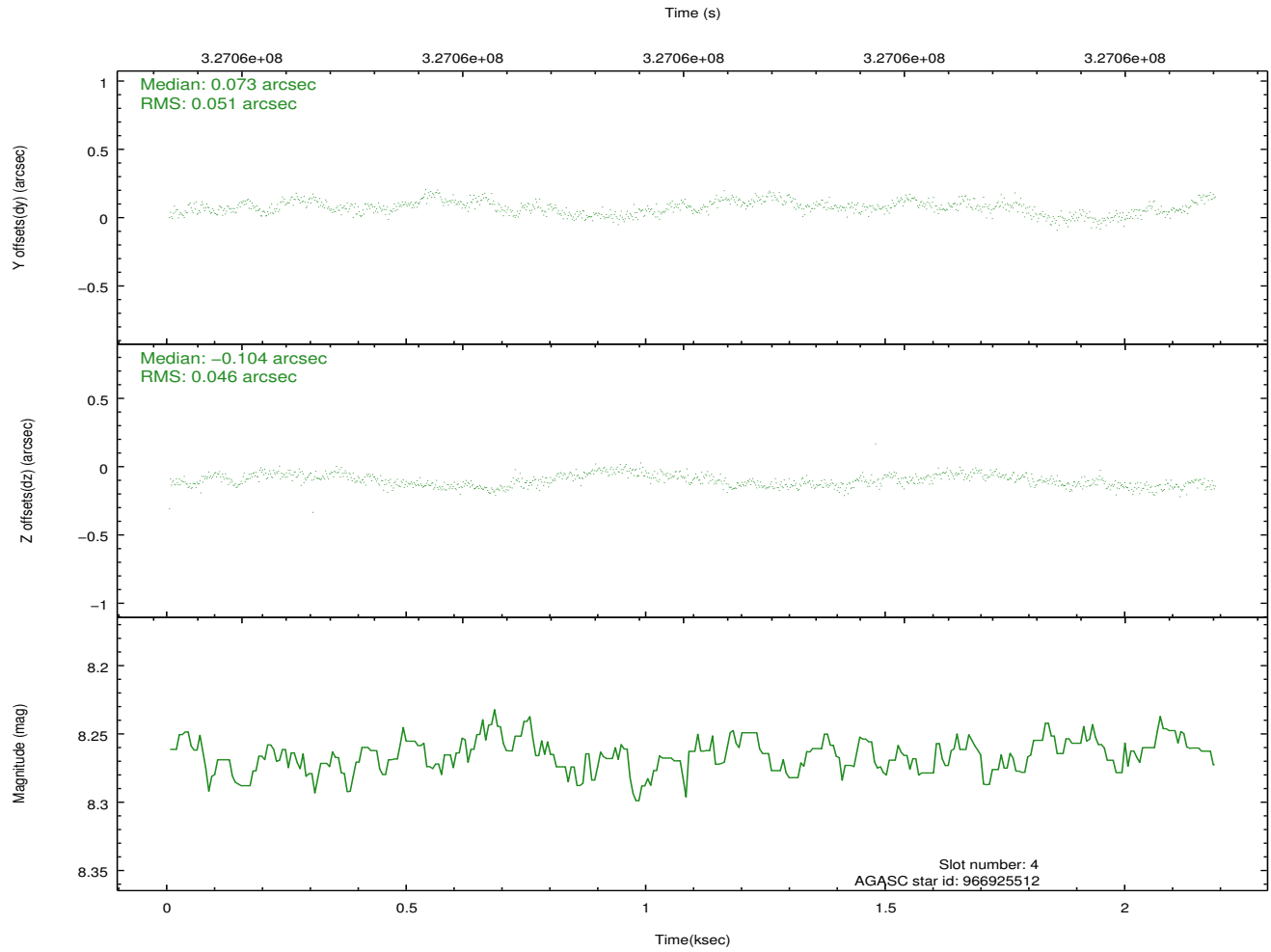
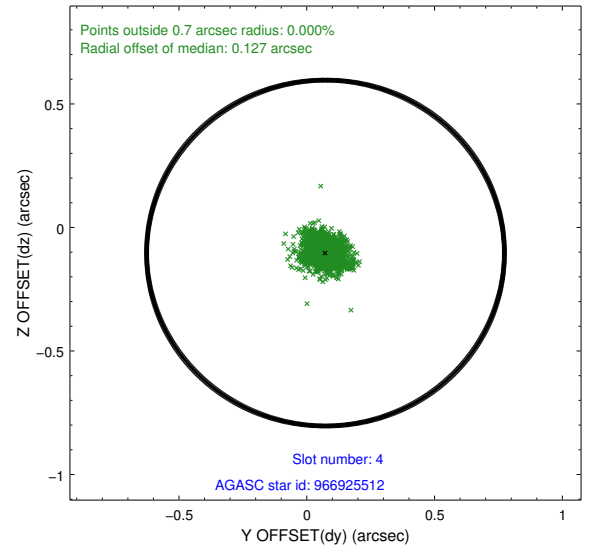
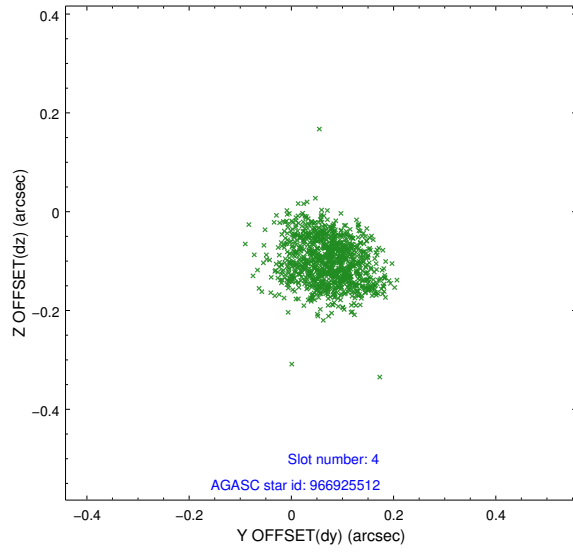


## 2.4 Star Slots

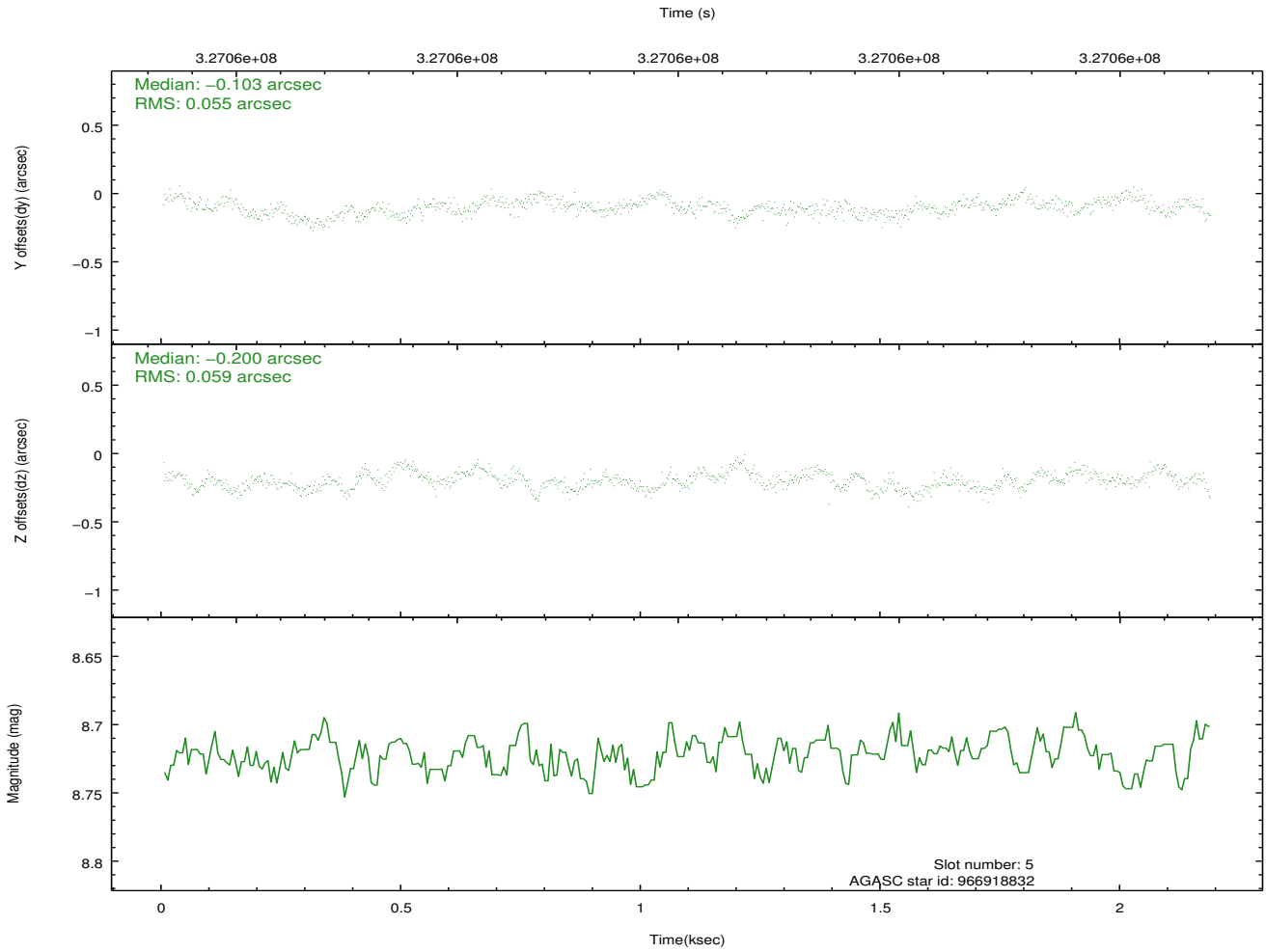
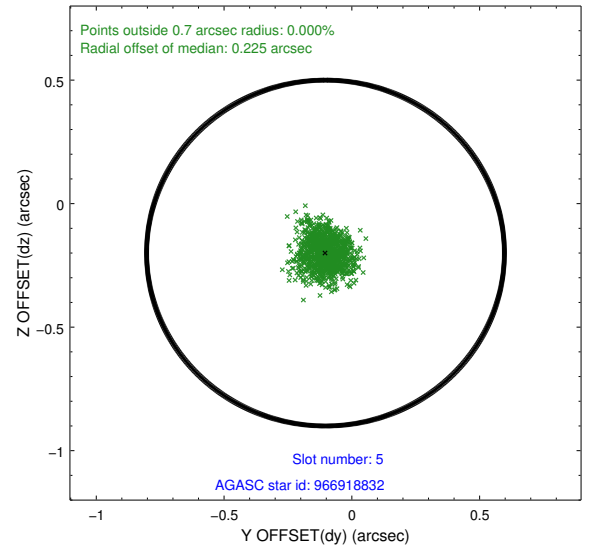
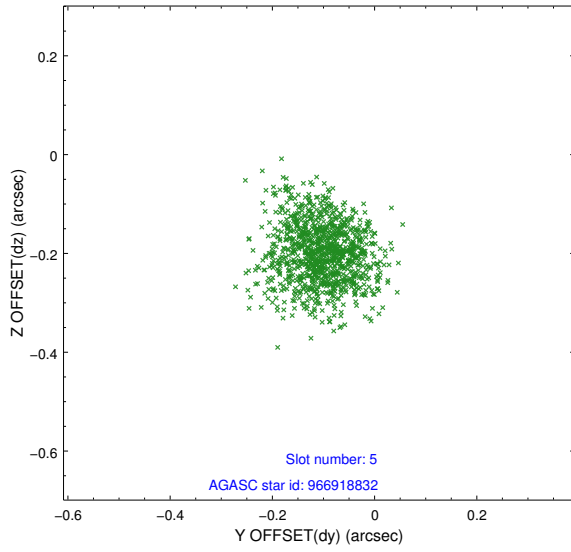
### 2.4.1 Slot 3



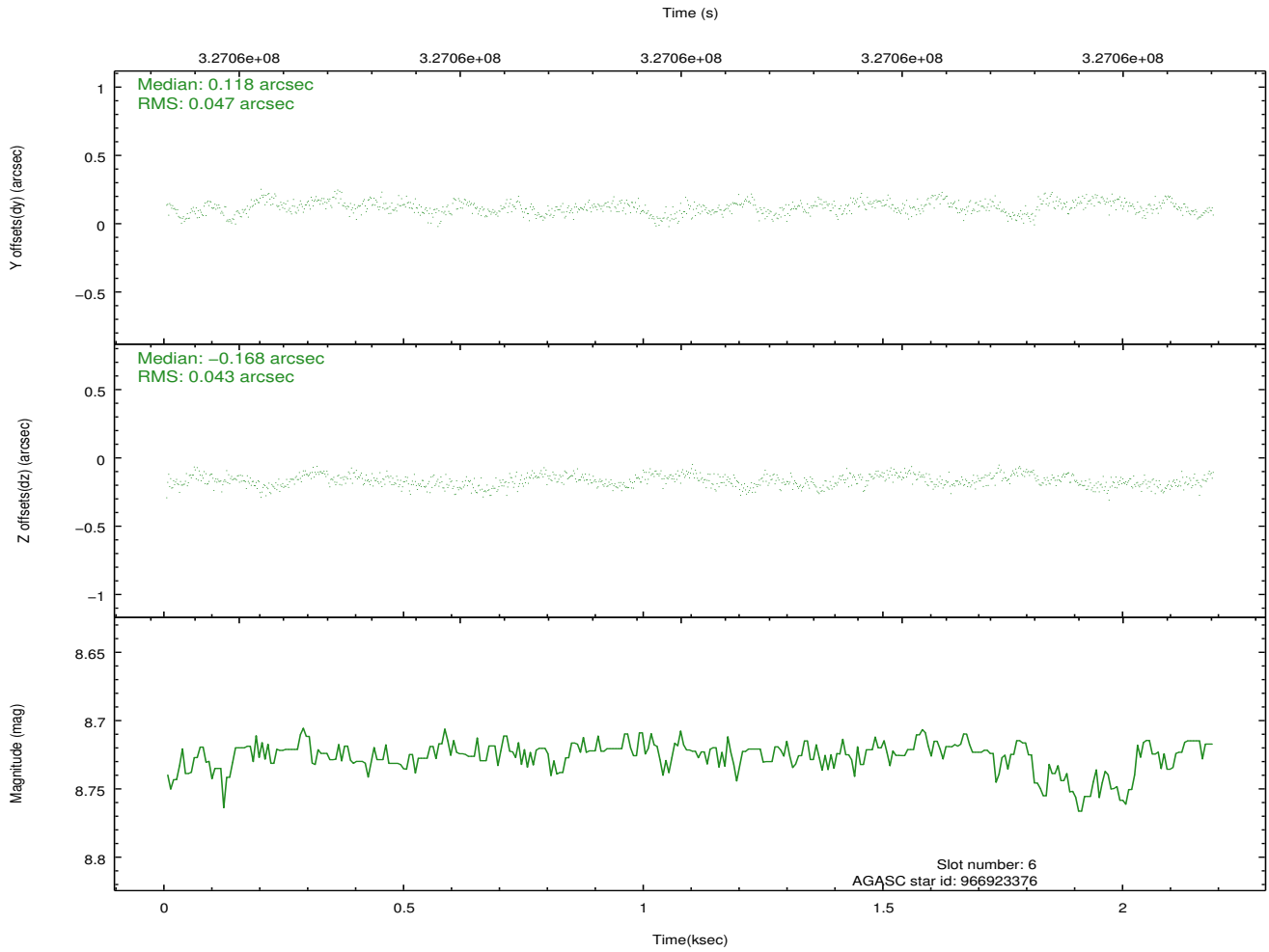
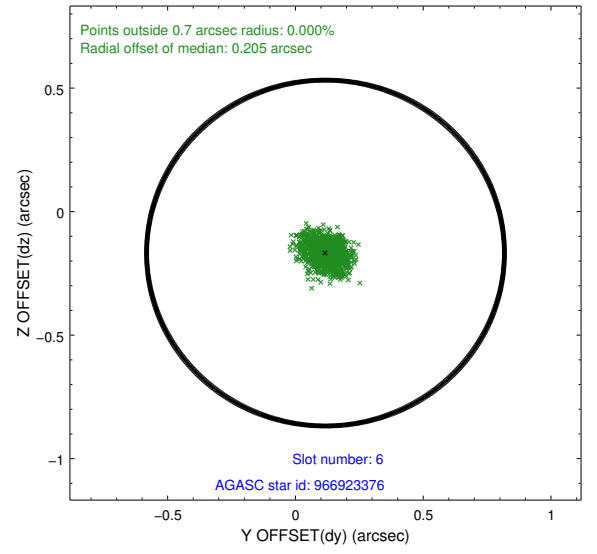
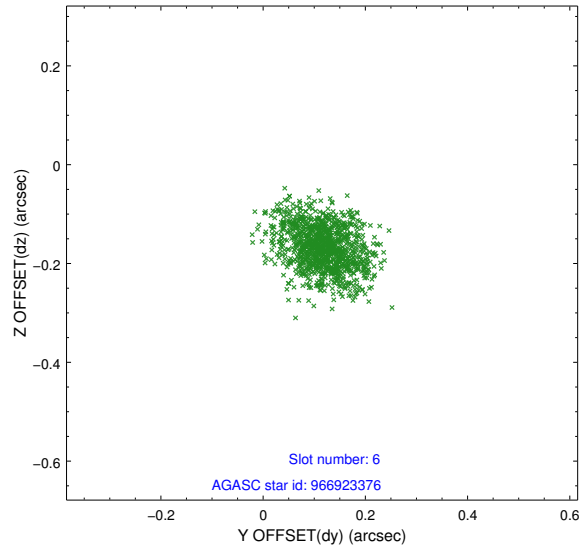
## 2.4.2 Slot 4



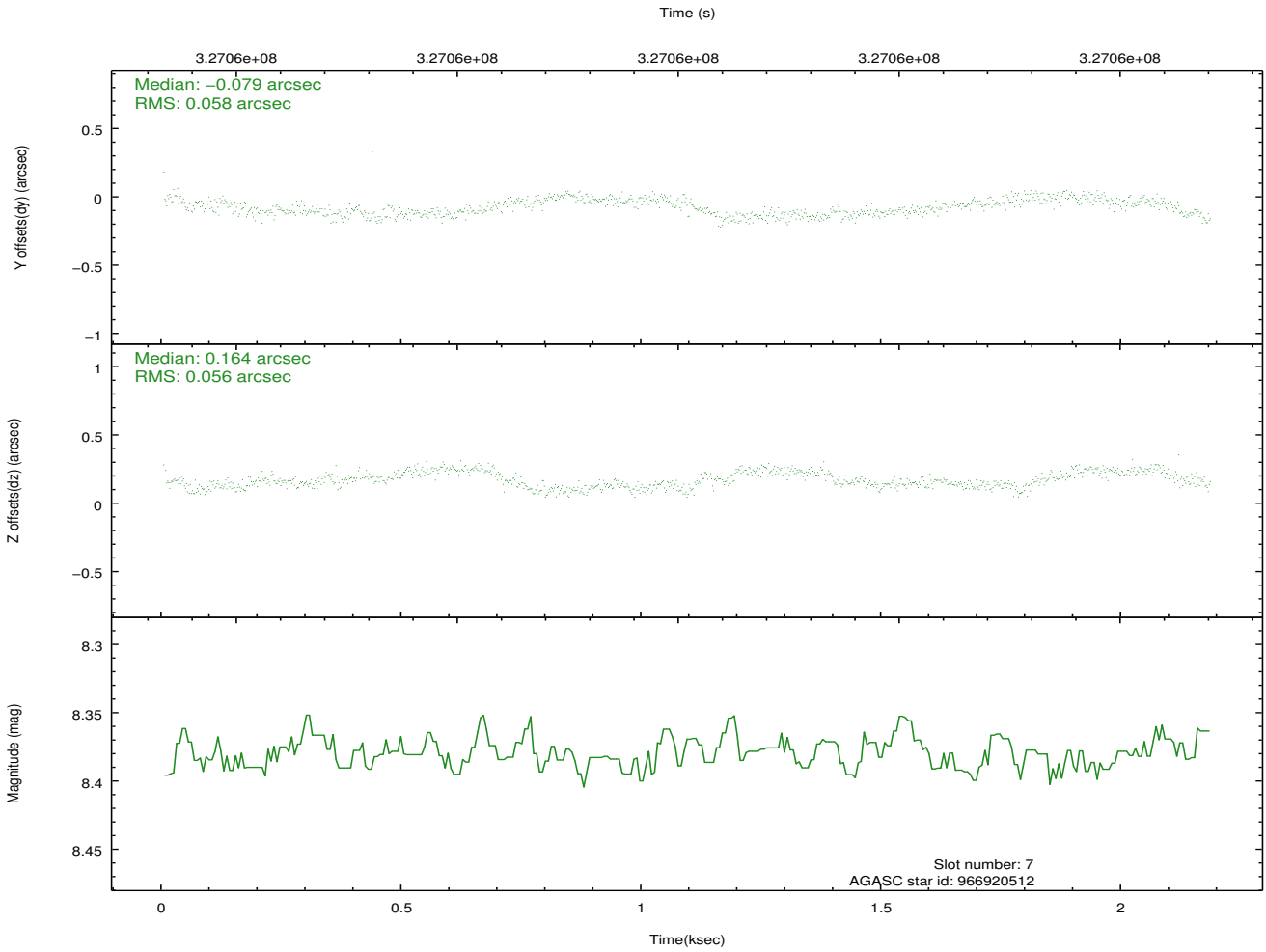
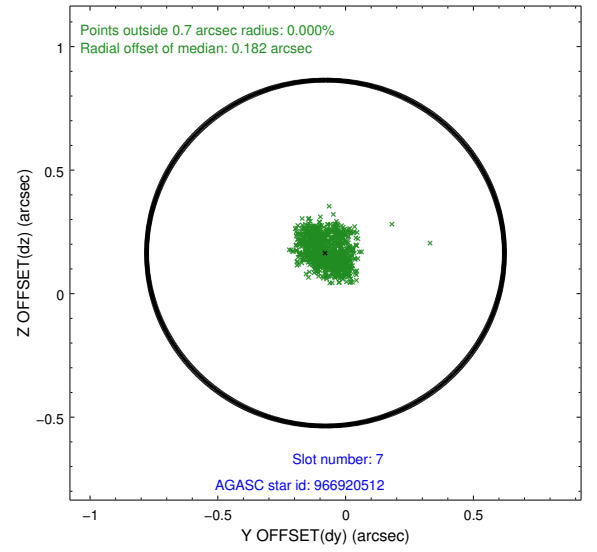
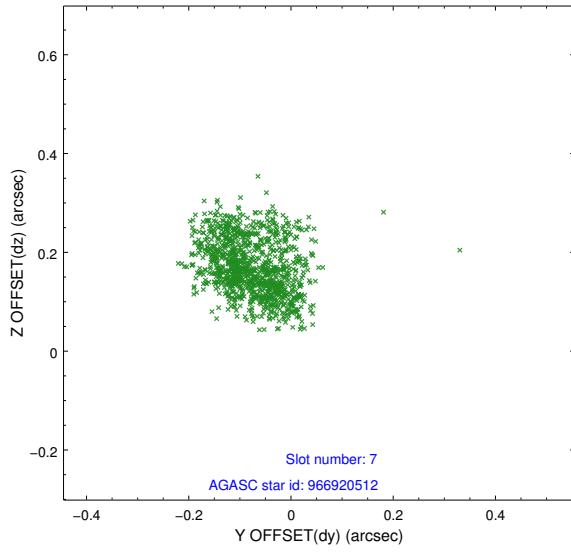
### 2.4.3 Slot 5



## 2.4.4 Slot 6

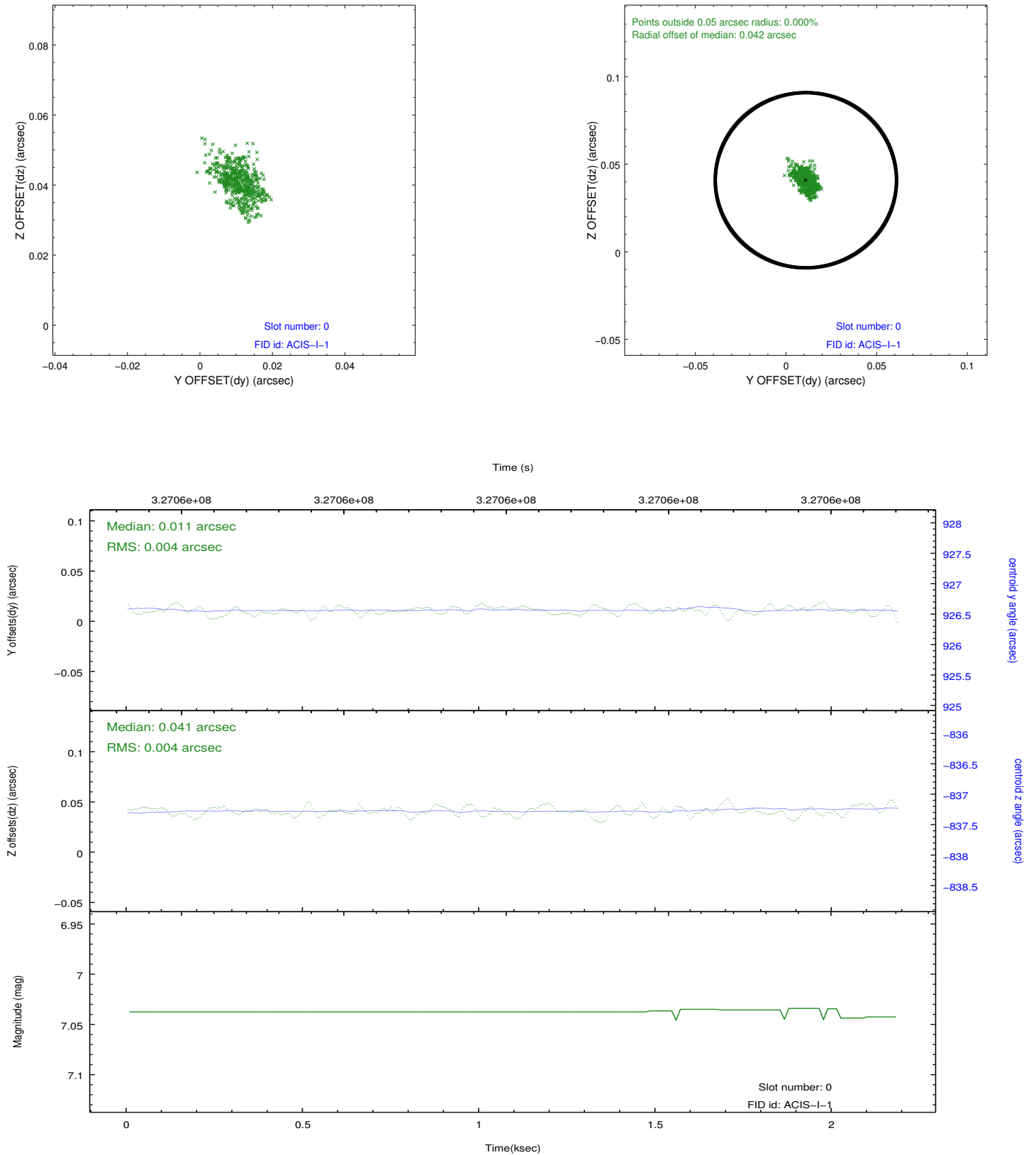


## 2.4.5 Slot 7

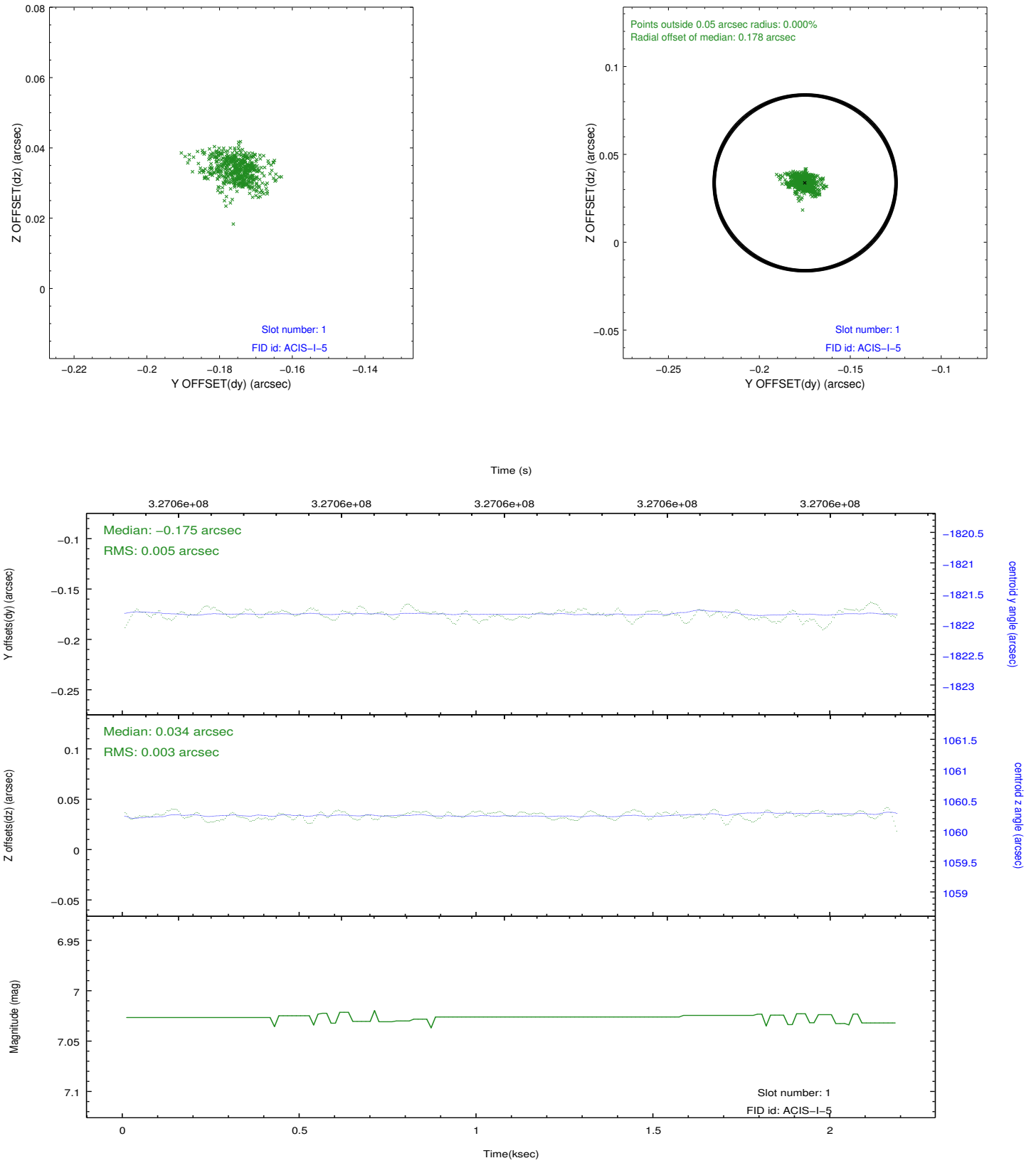


## 2.5 FID Slots

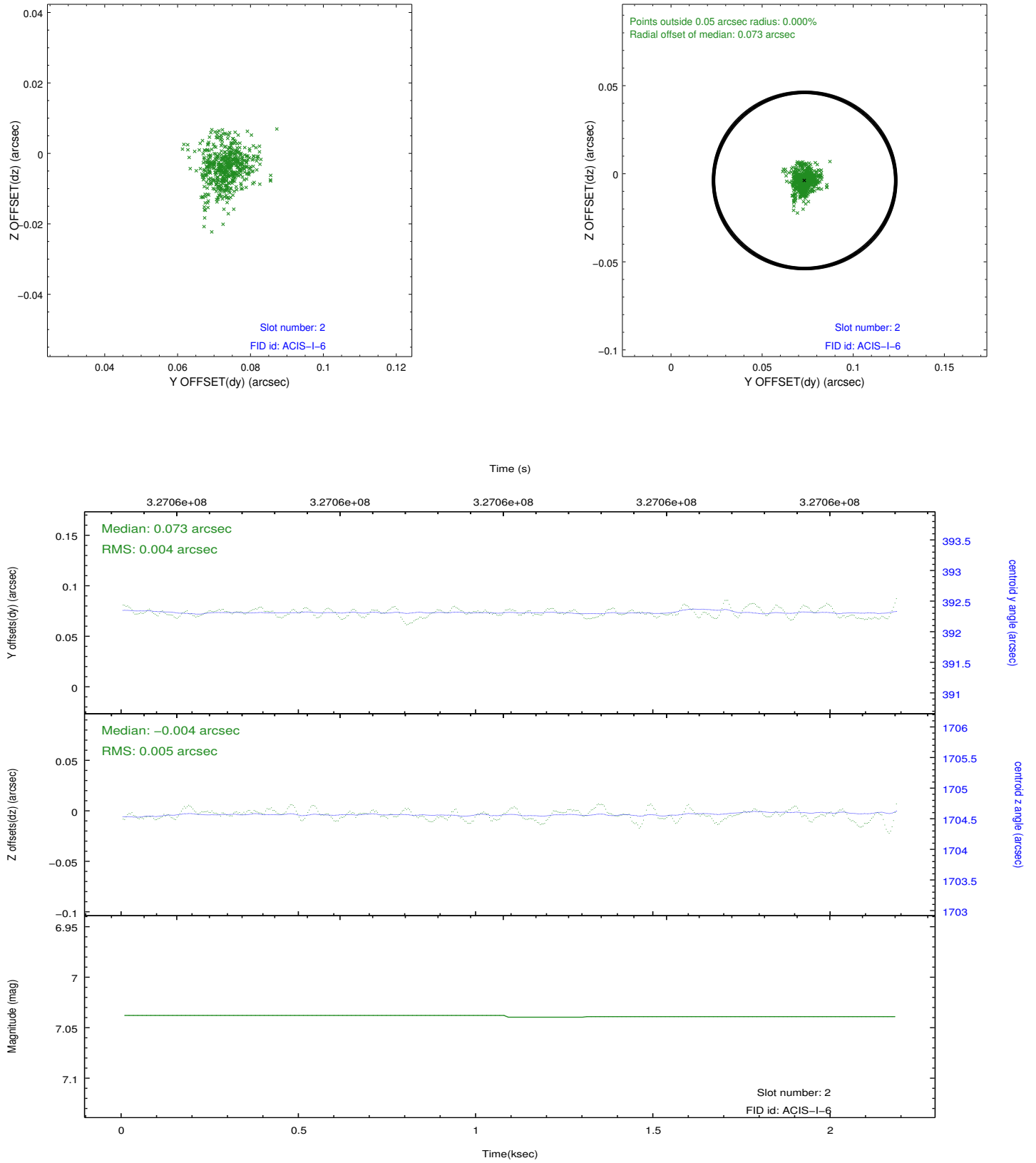
### 2.5.1 Slot 0



## 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)	2012.05.17
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.18240001

### A.2 Comments

Joint proposal with NOAO.