

# V&V Reference Report

## L2 ASCDS Version : 8.4.3

Observation 6396 - L2 Version 2  
Chandra X-Ray Center

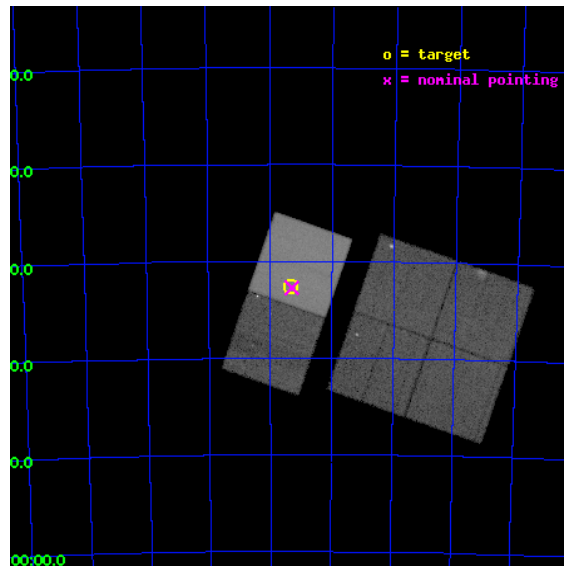
L2 Processing Date : Apr 1 2012

## 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

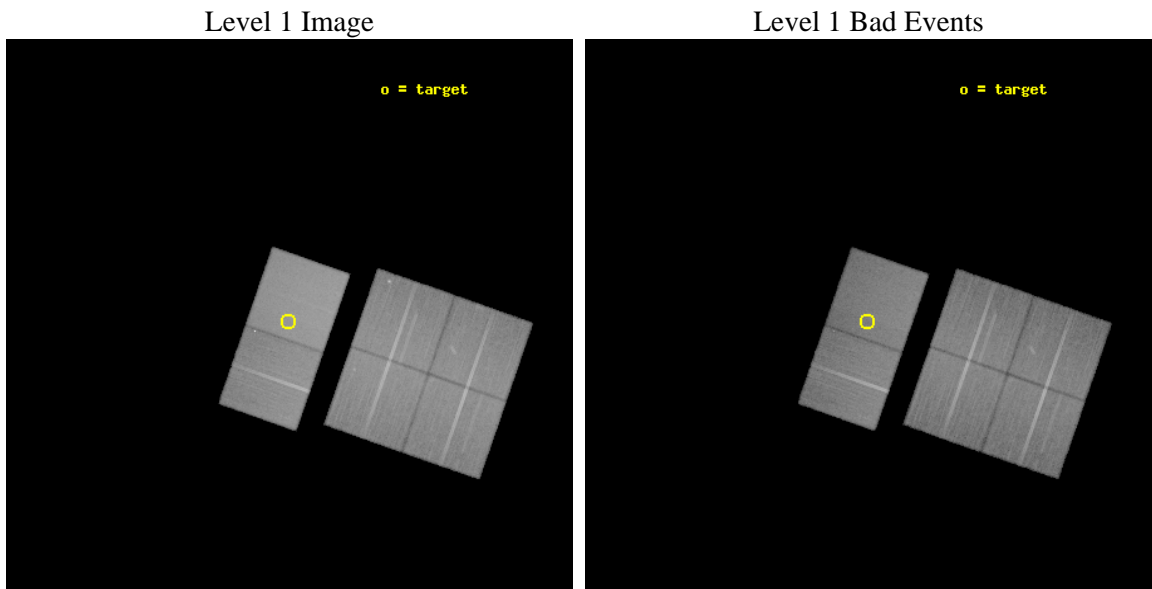
seq_num	200373	Sequence number
obs_id	6396	Observation id
title	X-ray activity in young substellar objects: A brown dwarf binary in Cha I	Proposal title
observer	Dr Beate Stelzer	Principal investigator
object	2M1101-7732	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	165.330417	Observer's specified target RA [deg]
dec_targ	-77.543972	Observer's specified target Dec [deg]
ra_nom	165.32501382313	Nominal RA [deg]
dec_nom	-77.545695551428	Nominal Dec [deg]
roll_nom	289.21517314976	Nominal Roll [deg]
revision	2	Processing version of data
ontime	39809.792483568	Sum of GTIs [s]
livetime	39305.696920562	Livetime [s]
ontime0	39806.592543244	Sum of GTIs [s]
ontime1	39803.146342963	Sum of GTIs [s]
ontime2	39809.669363558	Sum of GTIs [s]
ontime3	39809.710403562	Sum of GTIs [s]
ontime6	39809.751443565	Sum of GTIs [s]
ontime7	39809.792483568	Sum of GTIs [s]
l2events	385018	Number of level 2 events



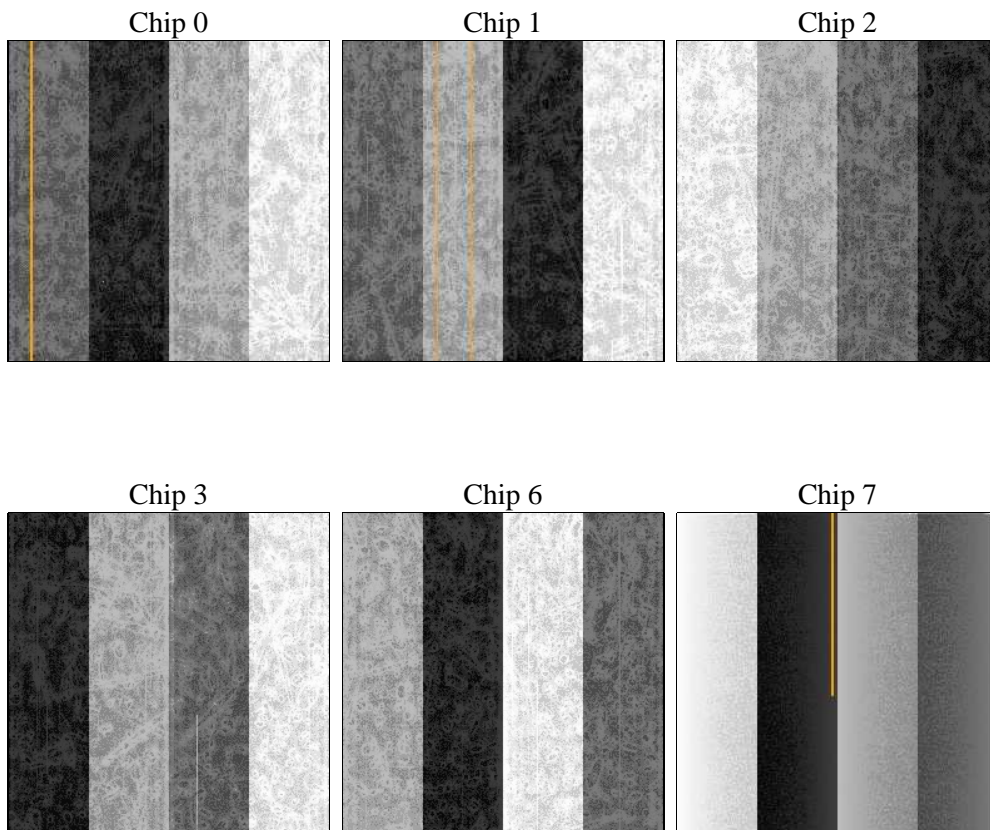
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	39857.553000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	39809.792483568	Sum of GTIs [s]
caldbver	4.4.9	&#160	ontime0	39806.592543244	Sum of GTIs [s]
date	2012-04-01T06:34:04	Date and time of file creation	ontime1	39803.146342963	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	39809.669363558	Sum of GTIs [s]
			ontime3	39809.710403562	Sum of GTIs [s]
			ontime6	39809.751443565	Sum of GTIs [s]
			ontime7	39809.792483568	Sum of GTIs [s]
			l1events	2208596	Number of level 1 events

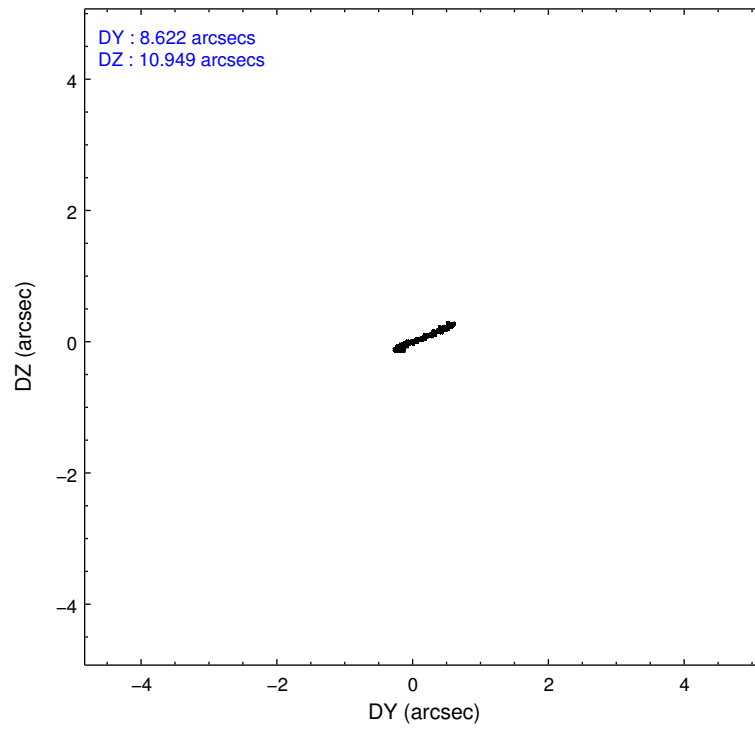
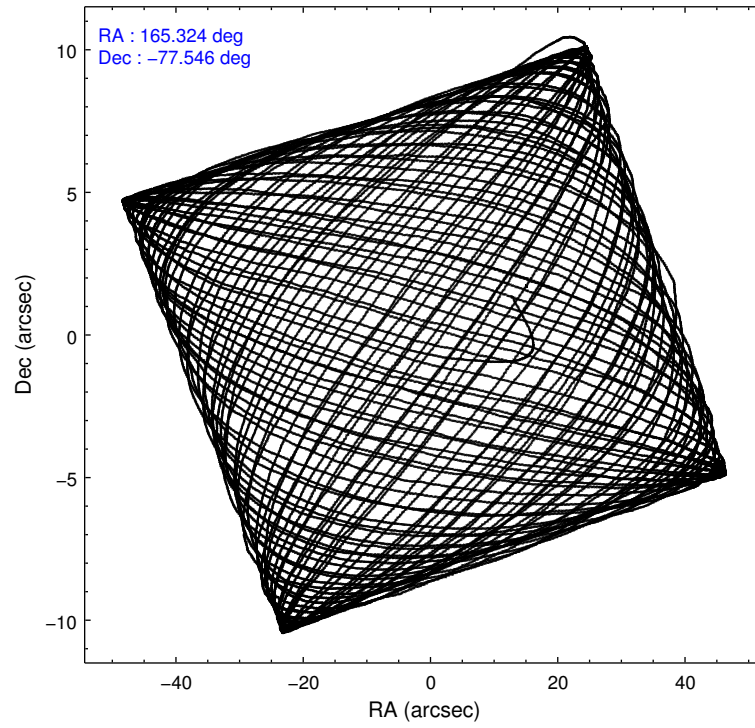
### 2.1.4 Events

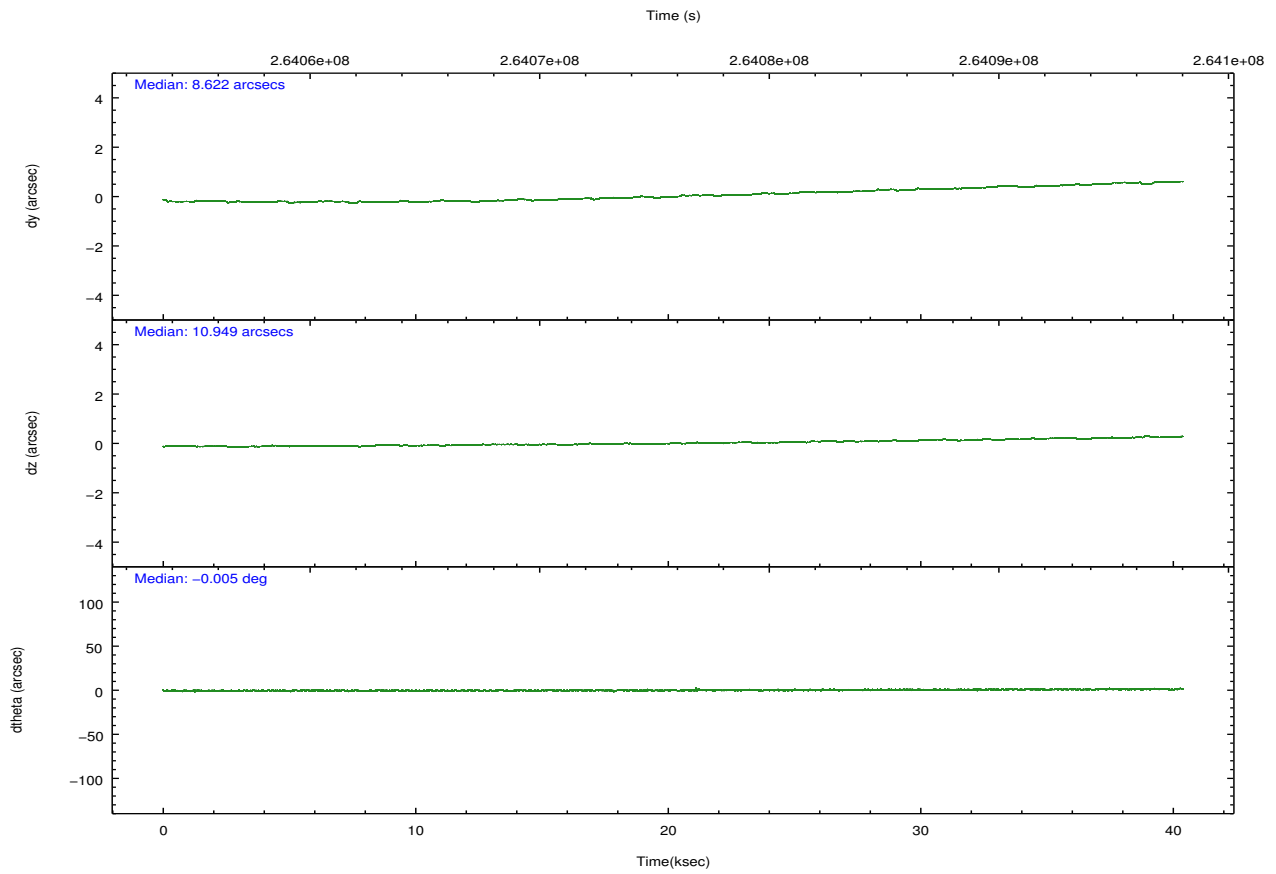
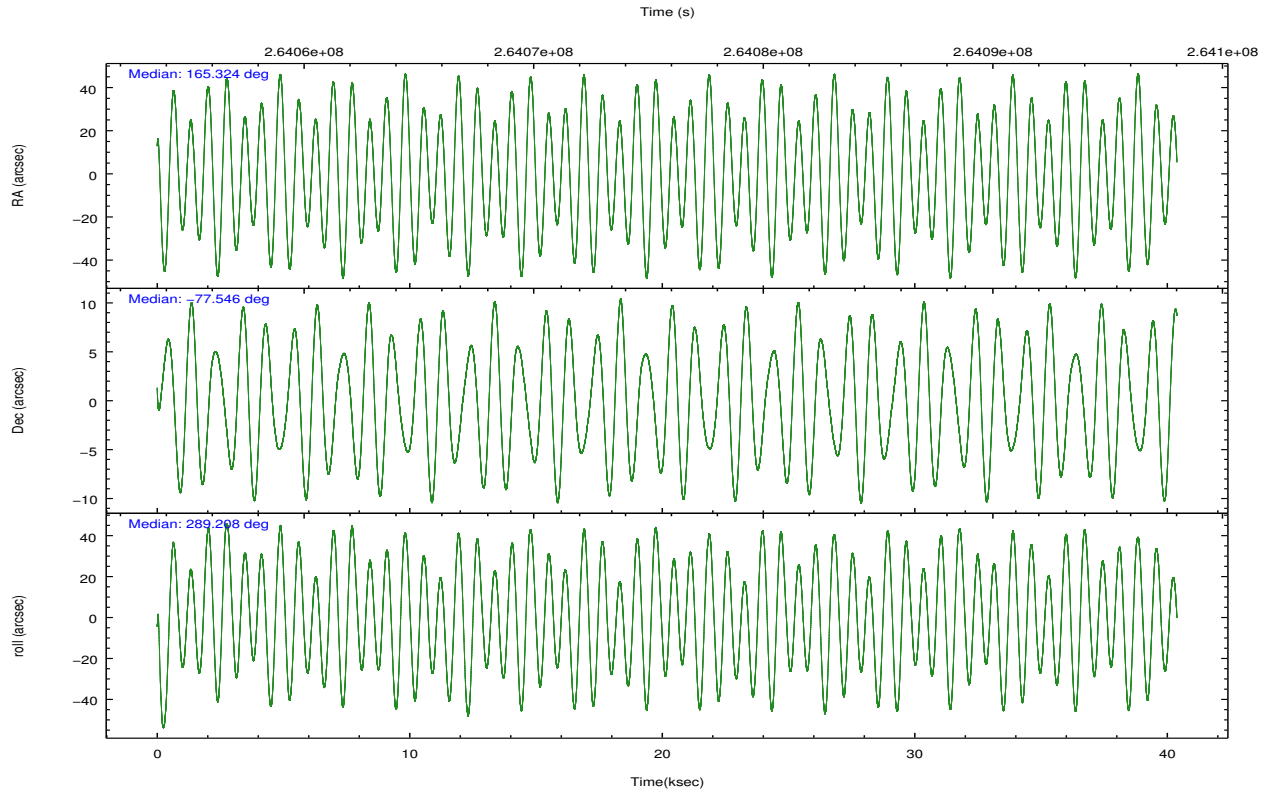
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	338280	327961	357132	346632	361526	477065	grade 0 events	18643	18566	18954	19551	20548	16870
rejected events	294730	281984	314994	303559	314879	278780		5%	5%	5%	5%	5%	3%
rejected %	87%	85%	88%	87%	87%	58%	grade 1 events	255	309	219	232	251	518
								0%	0%	0%	0%	0%	0%
							grade 2 events	9552	10150	8679	8218	9463	39670
								2%	3%	2%	2%	2%	8%
							grade 3 events	4044	4281	3817	3970	4049	17290
								1%	1%	1%	1%	1%	3%
							grade 4 events	3802	4295	3909	4038	4056	17159
								1%	1%	1%	1%	1%	3%
							grade 5 events	14495	14834	13438	15910	16500	45315
								4%	4%	3%	4%	4%	9%
							grade 6 events	7517	8693	6789	7308	8549	107327
								2%	2%	1%	2%	2%	22%
							grade 7 events	279972	266833	301327	287405	298110	232916
								82%	81%	84%	82%	82%	48%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012367	ACIS-012367	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	165.228435	165.3250138231325	Subarray requested	NONE	NONE
[deg] Pointing Dec	-77.528166	-77.5456955514282	Alternating exposures requested	N	N
[deg] Pointing Roll	288.964248	289.2151731497628	[s] Primary exposure time	0.000000	3.2
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	264056140.184000	264055006.28005			
Observation start date	2006-05-15T04:54:35	2006-05-15T04:36:46			
[s] Observation end time (MET)	264095997.184000	264096212.30697			
Observation end date	2006-05-15T15:58:52	2006-05-15T16:03:32			
Read mode	TIMED	TIMED			

## 2.3 Aspect



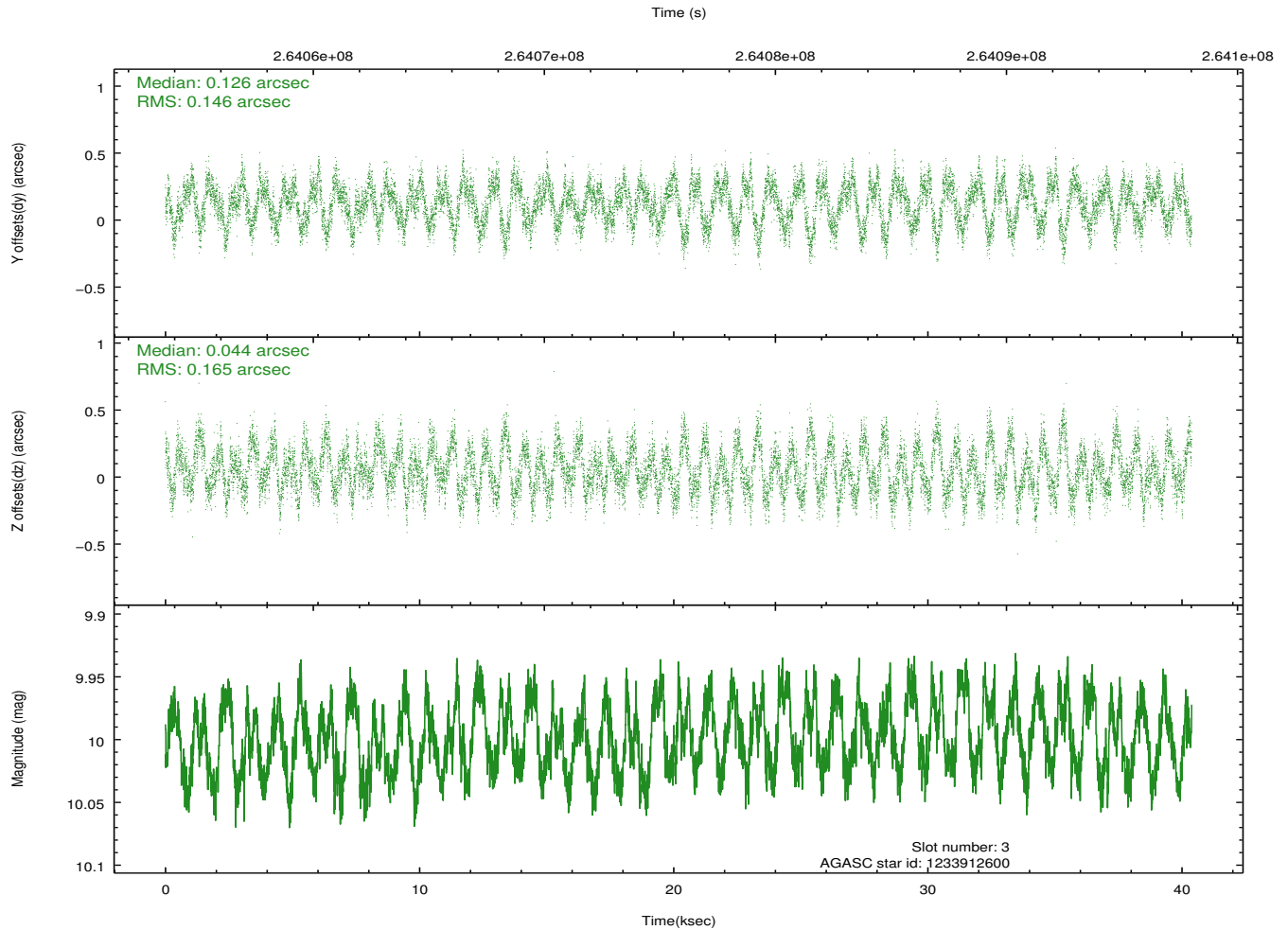
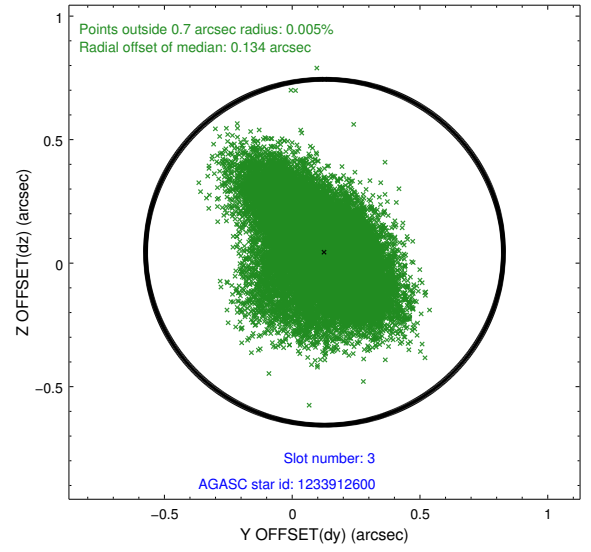
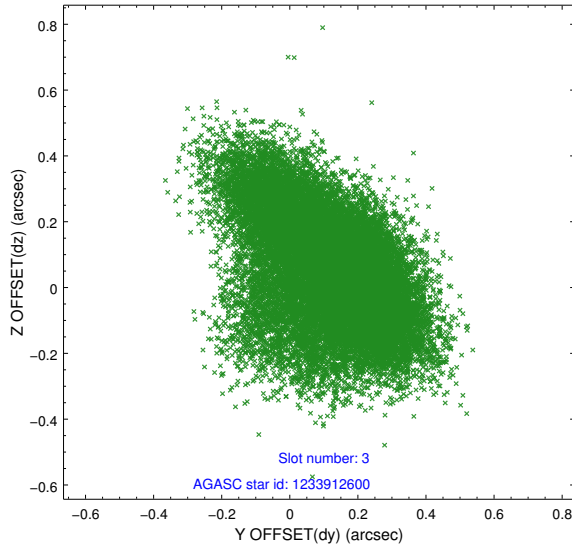


### Slot Statistics

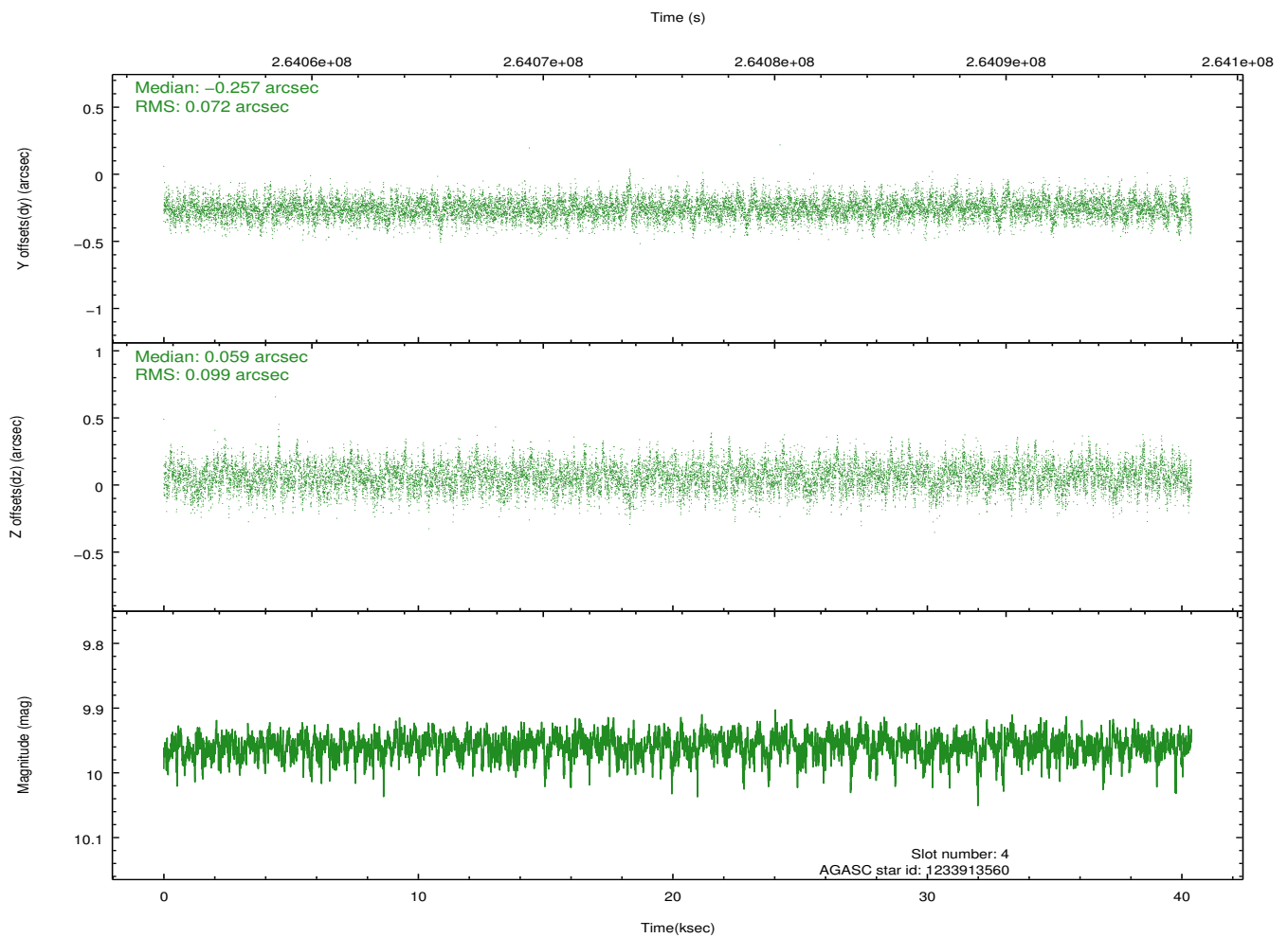
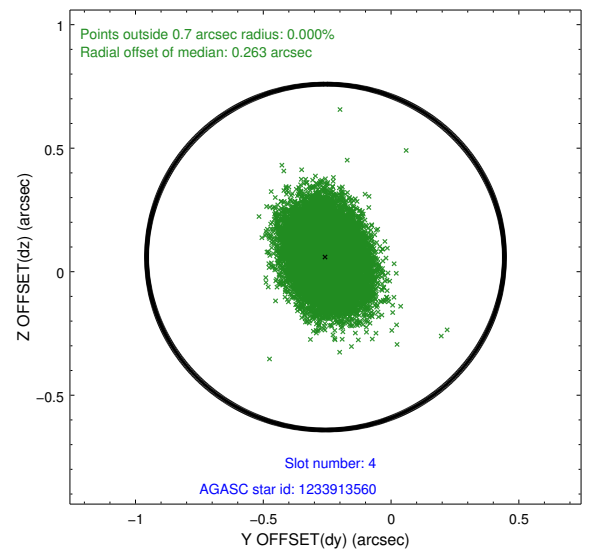
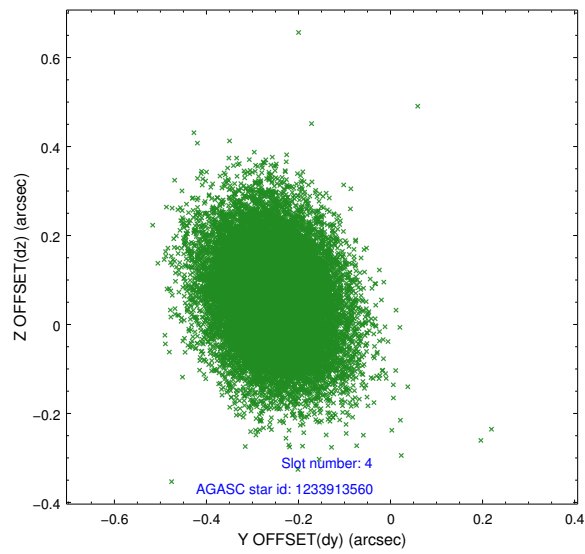
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	9849	-0.039	-0.017	0.007	0.013	0.000000	0.000000	-761.49	-1732.28
1	FID	ACIS-S-4	7.21	9848	0.140	0.023	0.014	0.025	0.000000	0.000000	2151.92	176.29
2	FID	ACIS-S-5	7.23	9850	-0.133	0.003	0.015	0.022	0.000000	0.000000	-1814.45	169.88
3	GUIDE	1233912600	10.00	19680	0.126	0.044	0.235	0.382	163.573591	-77.521840	-422.48	-1215.27
4	GUIDE	1233913560	9.96	19678	-0.257	0.059	0.129	0.215	162.653684	-77.968172	910.53	-2354.71
5	GUIDE	1233913600	9.30	19685	-0.218	0.079	0.133	0.202	162.381907	-77.109378	-2115.95	-1689.45
6	GUIDE	1233915320	9.99	19526	0.452	-0.164	0.201	0.343	163.177545	-78.260506	2030.91	-2285.22
7	GUIDE	1233390784	10.12	19613	-0.084	-0.036	0.169	0.275	167.039359	-76.707181	-2286.36	2370.52

## 2.4 Star Slots

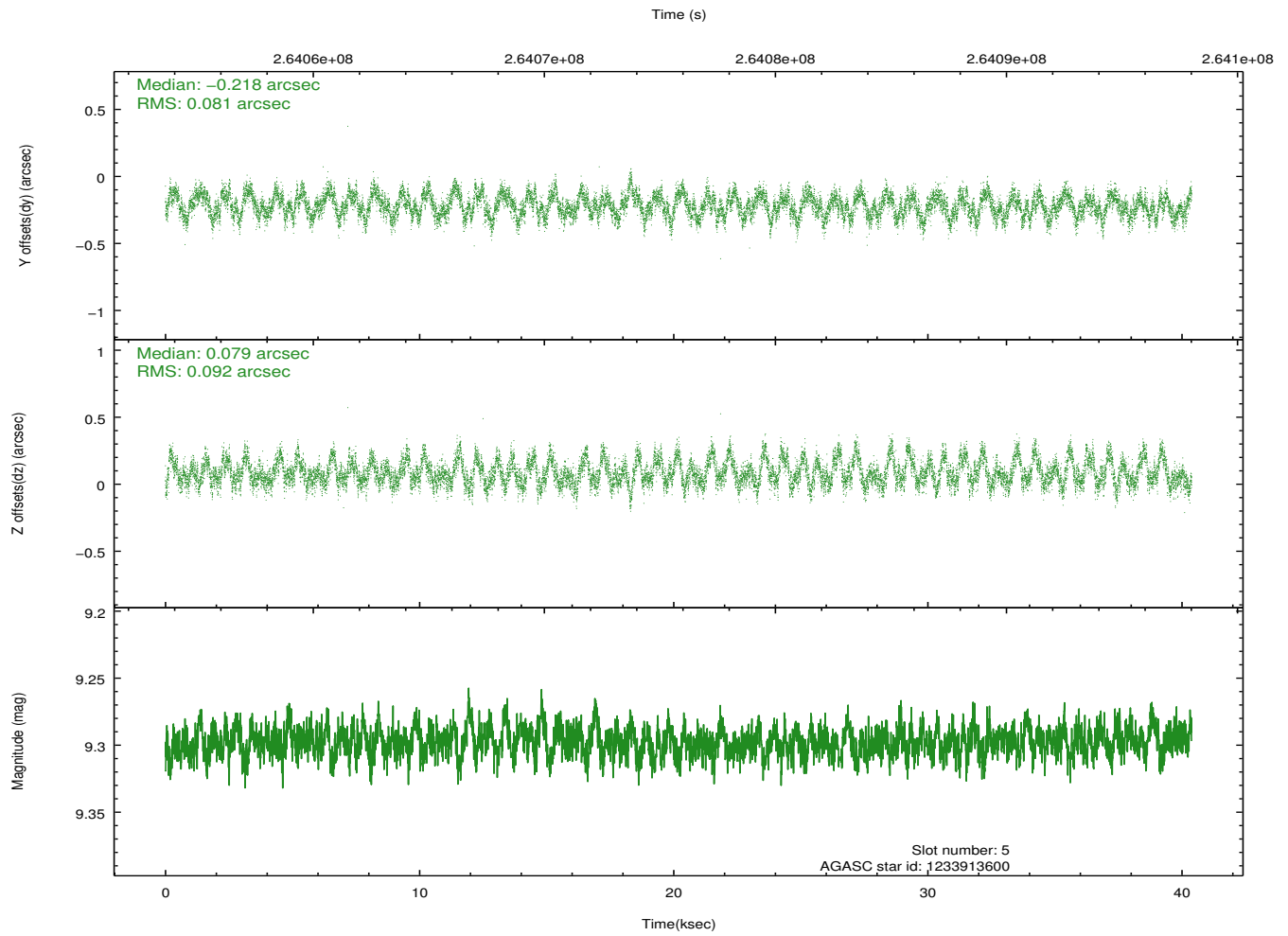
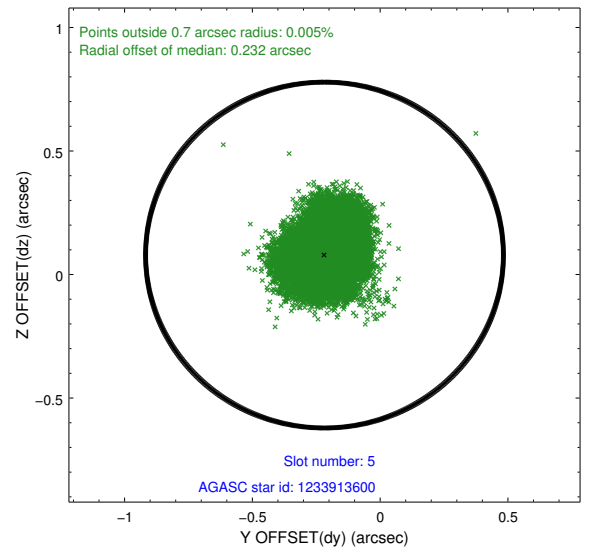
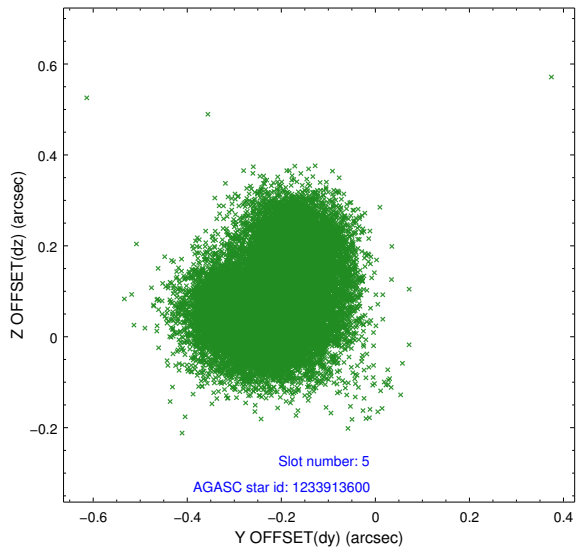
### 2.4.1 Slot 3



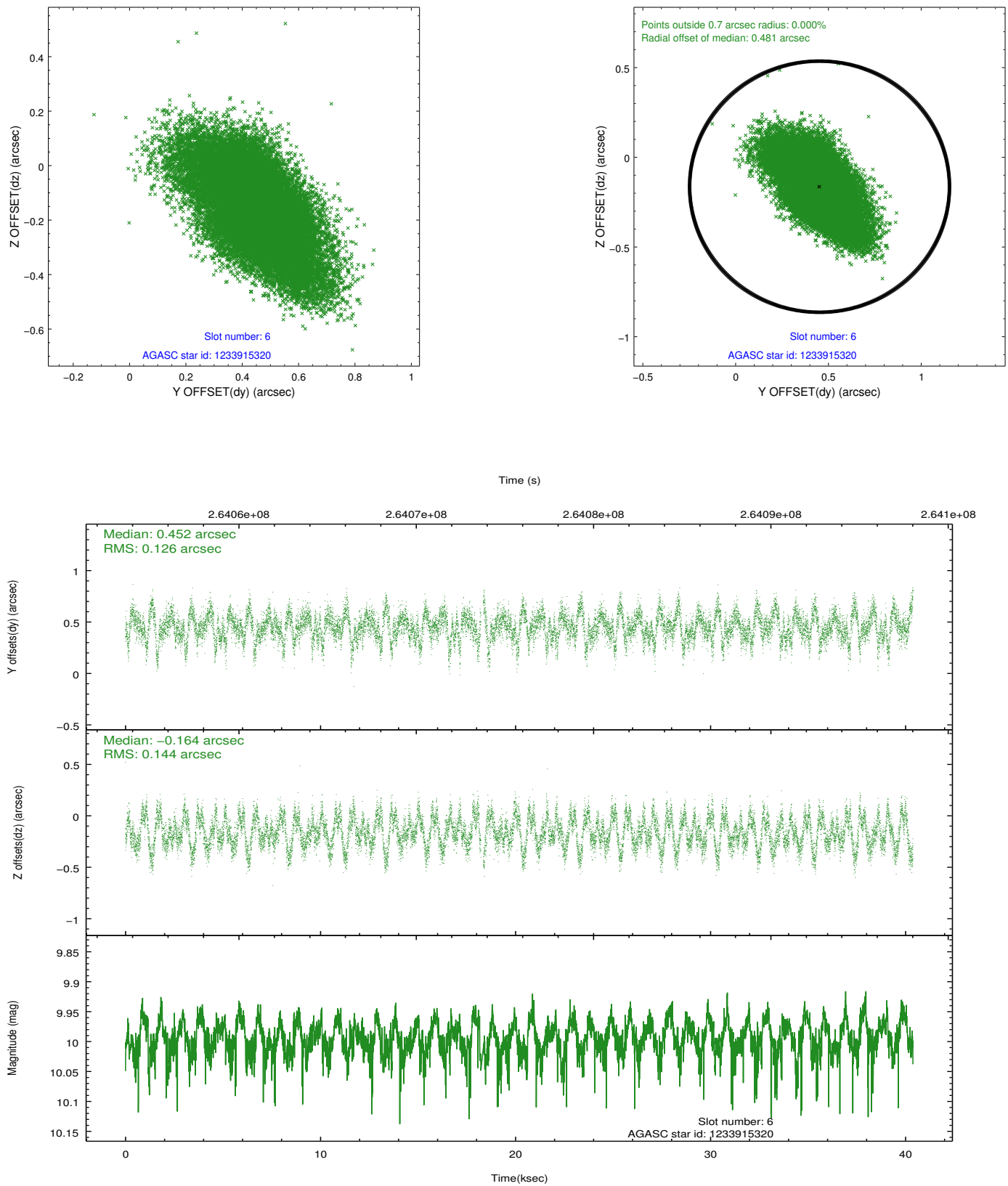
## 2.4.2 Slot 4



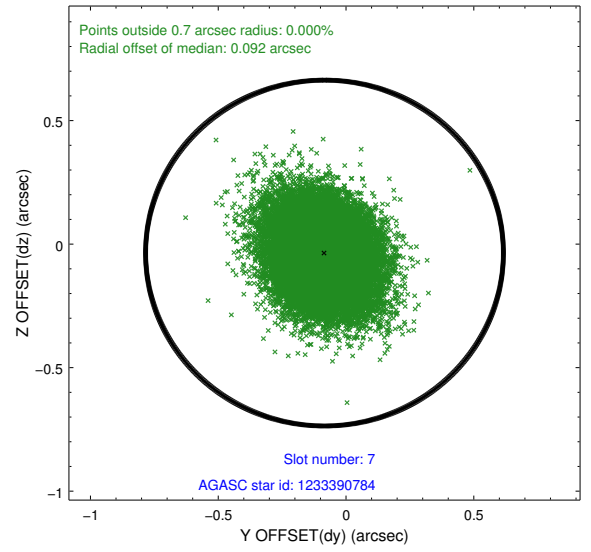
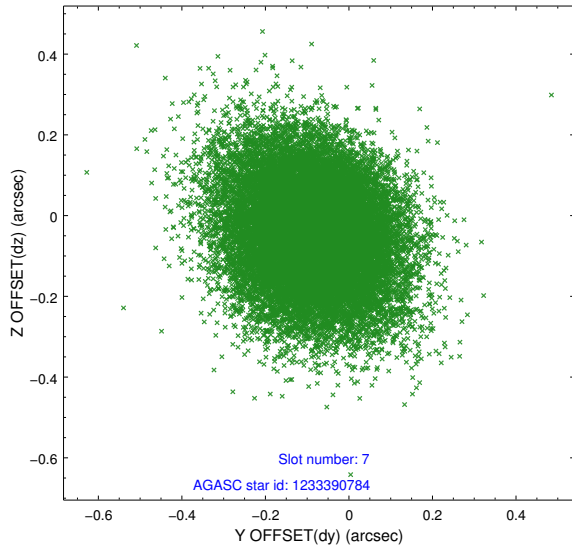
### 2.4.3 Slot 5



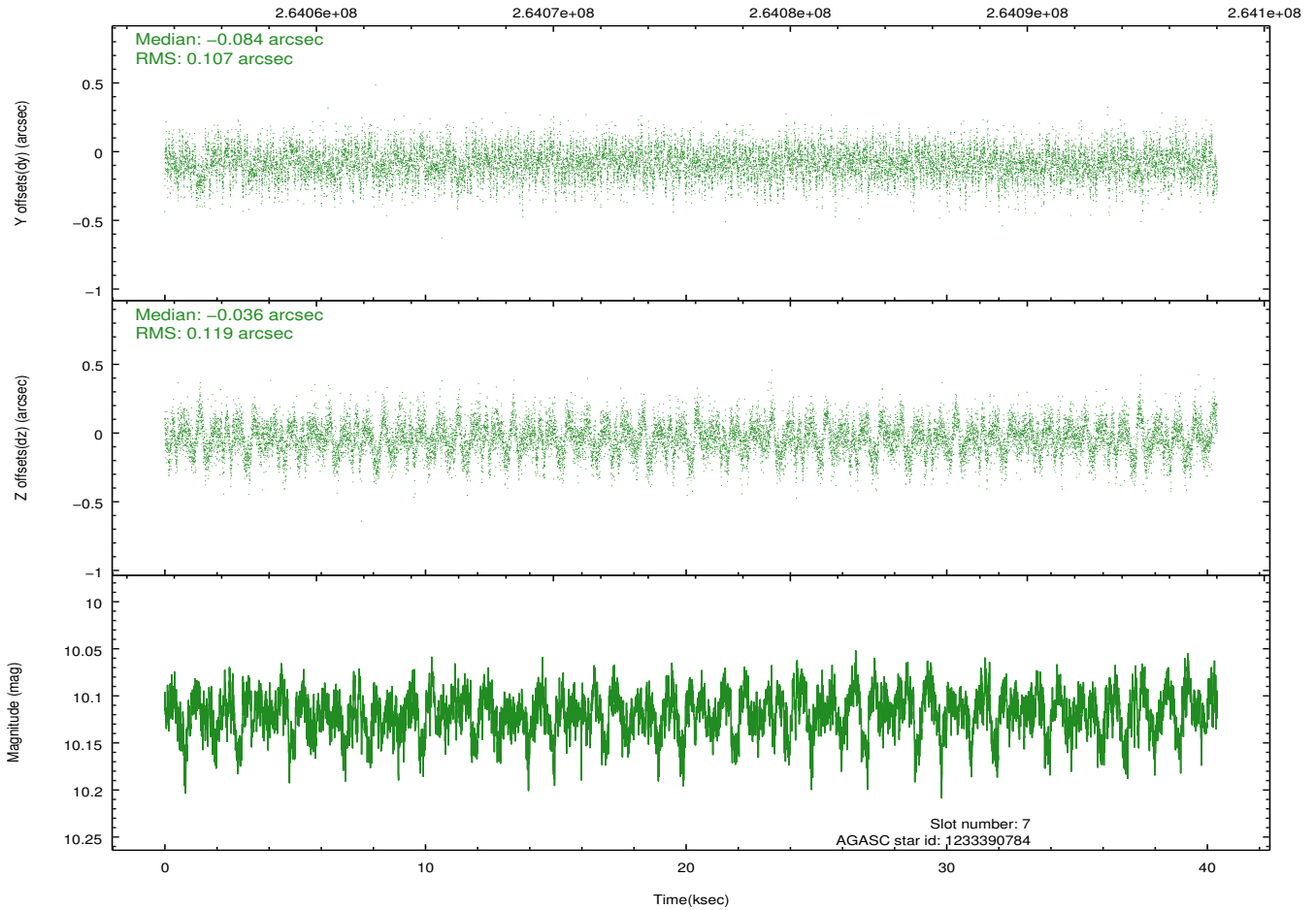
## 2.4.4 Slot 6



## 2.4.5 Slot 7

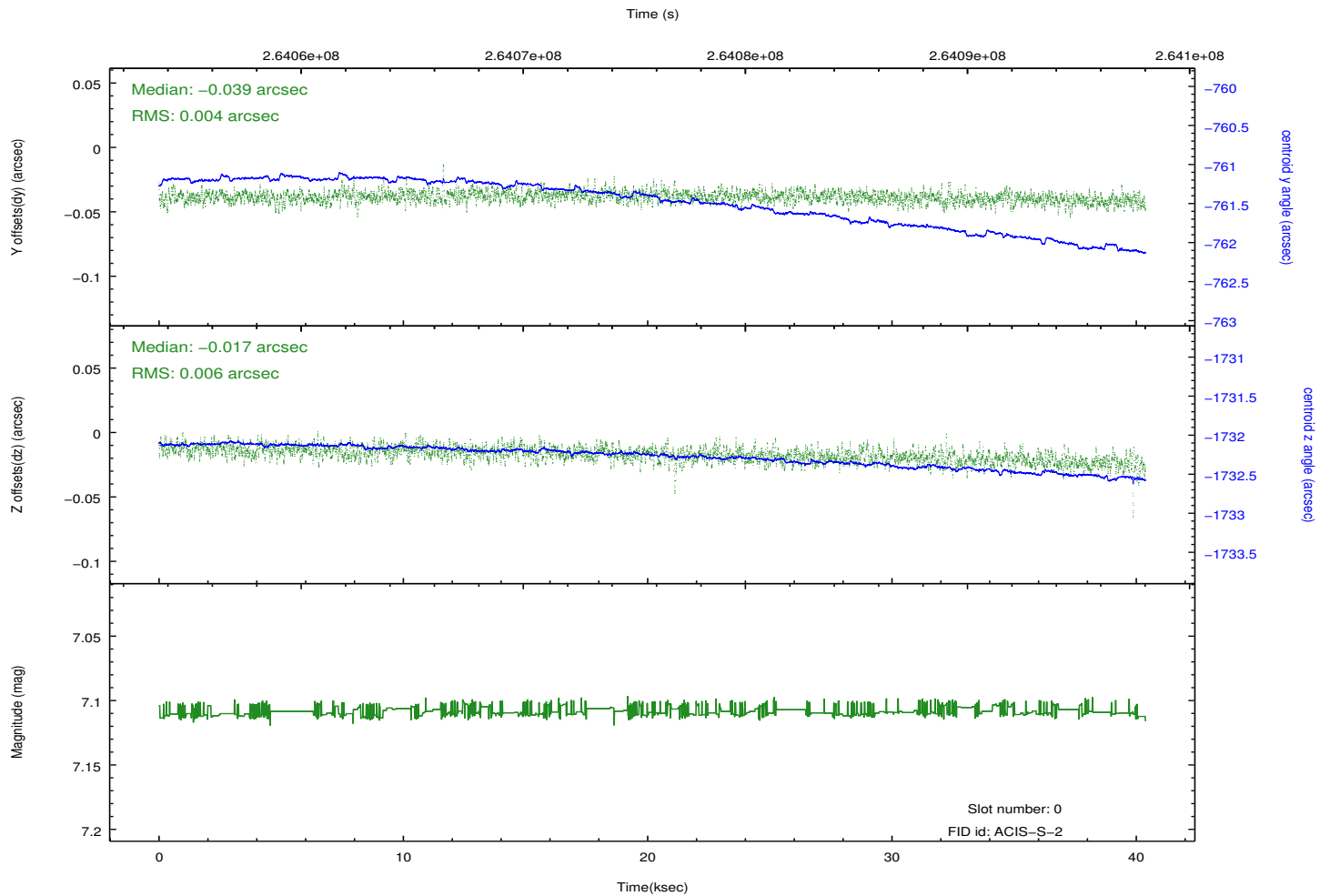
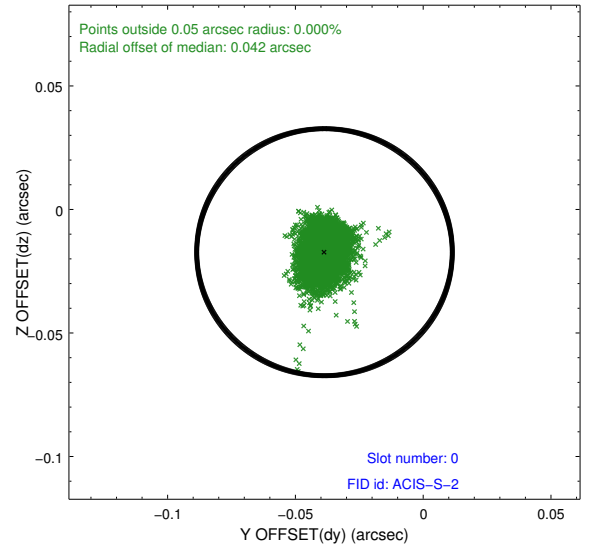
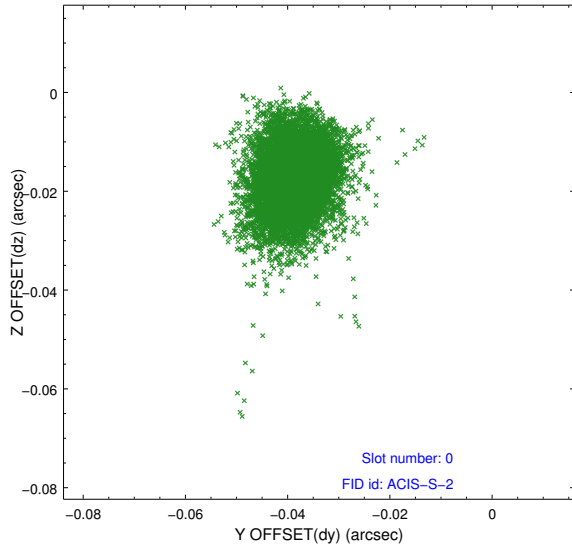


Time (s)

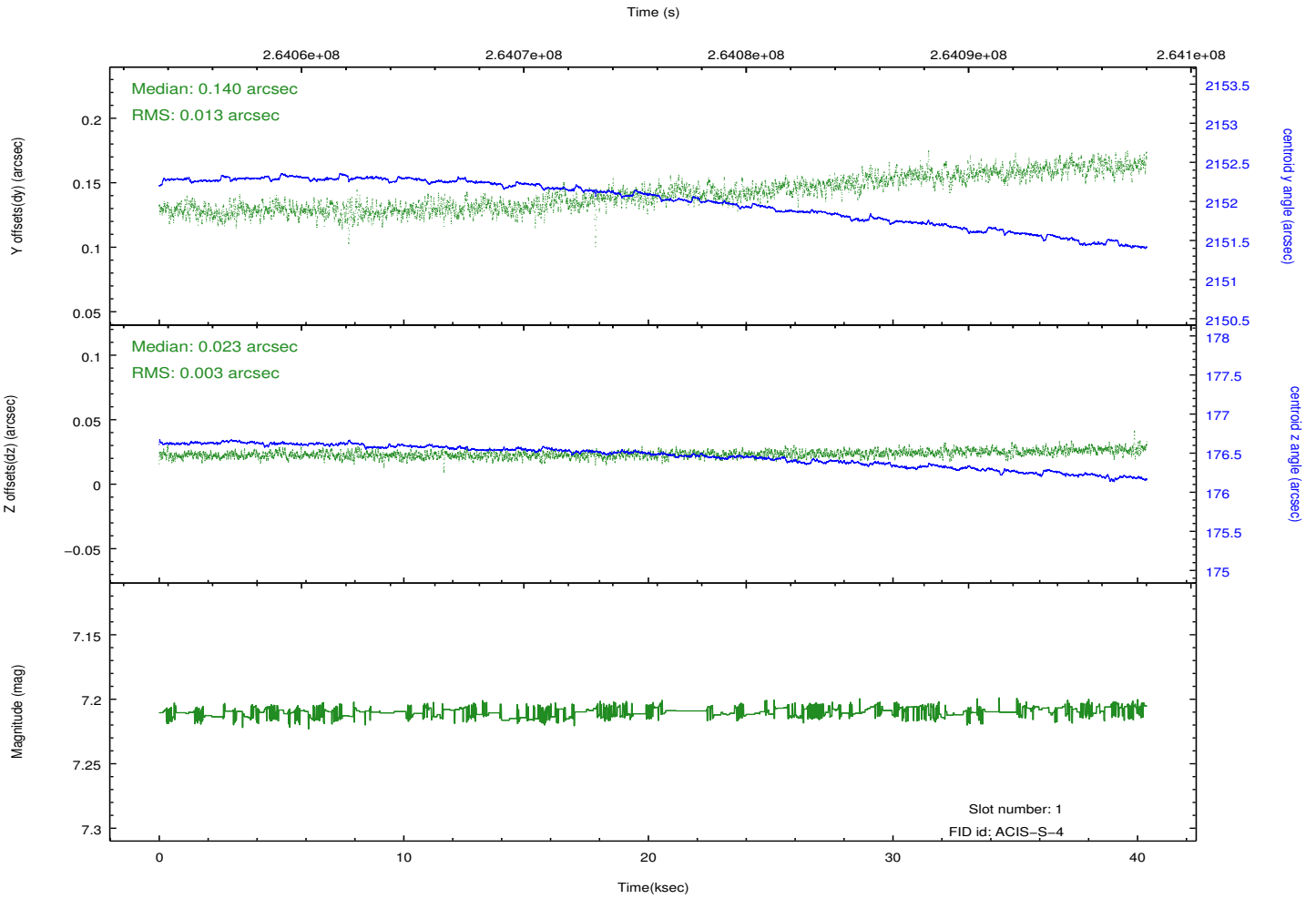
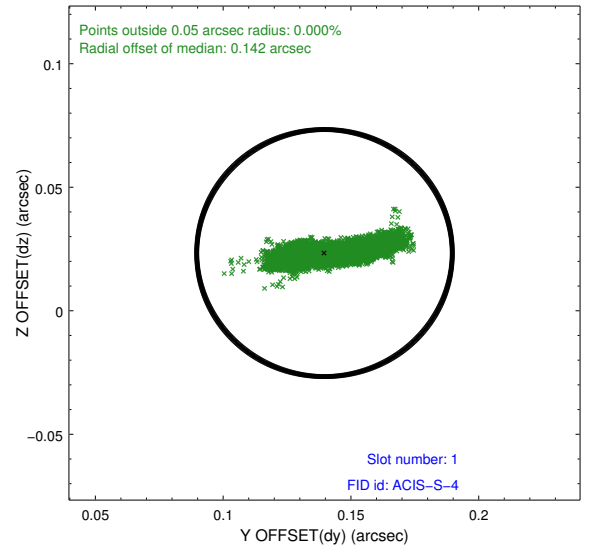
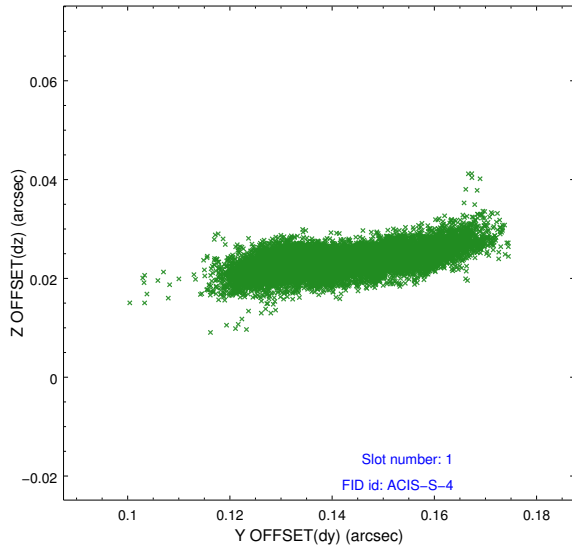


## 2.5 FID Slots

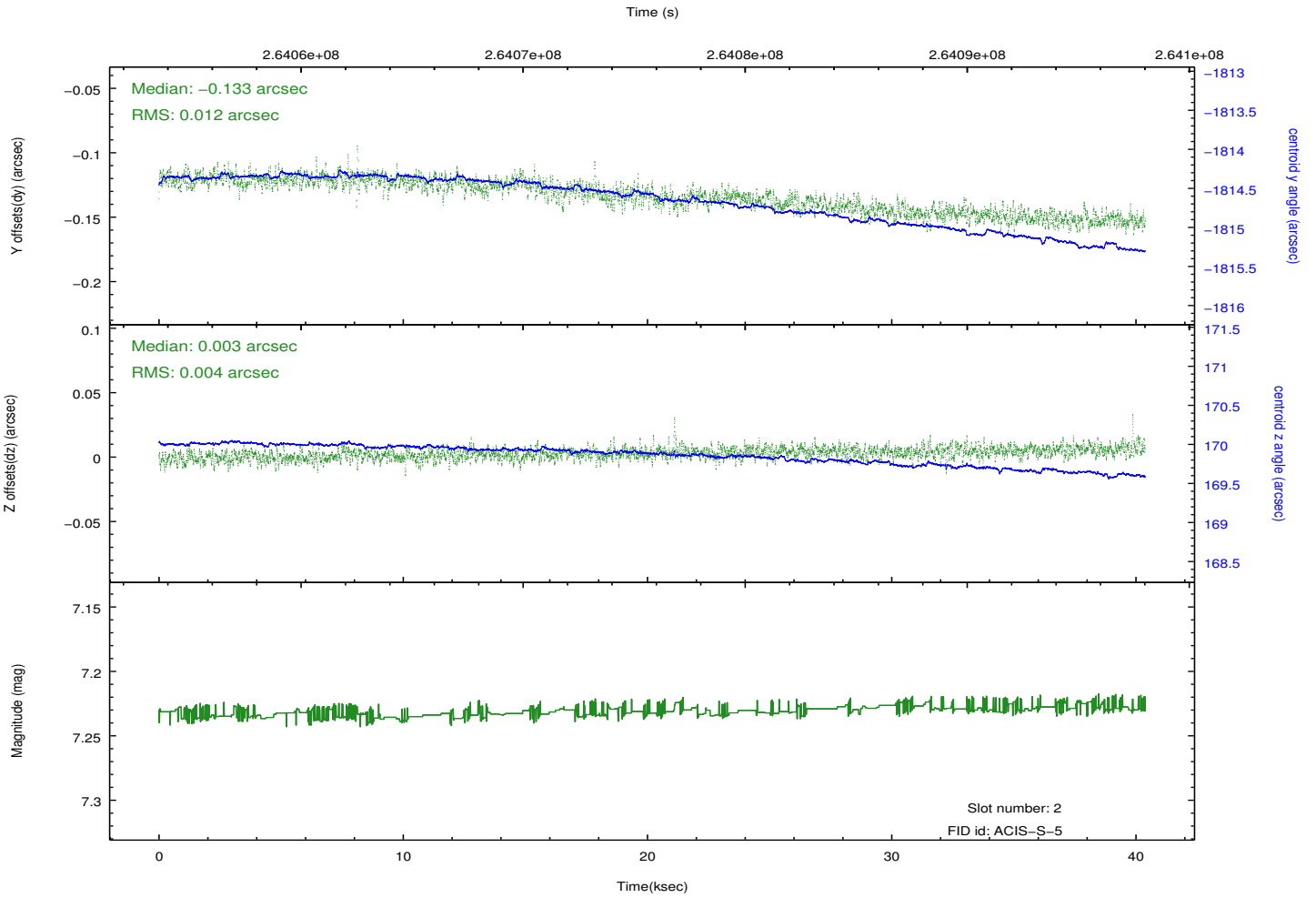
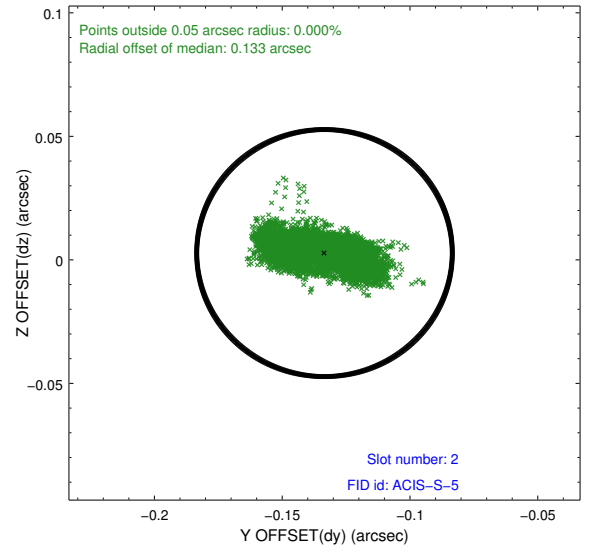
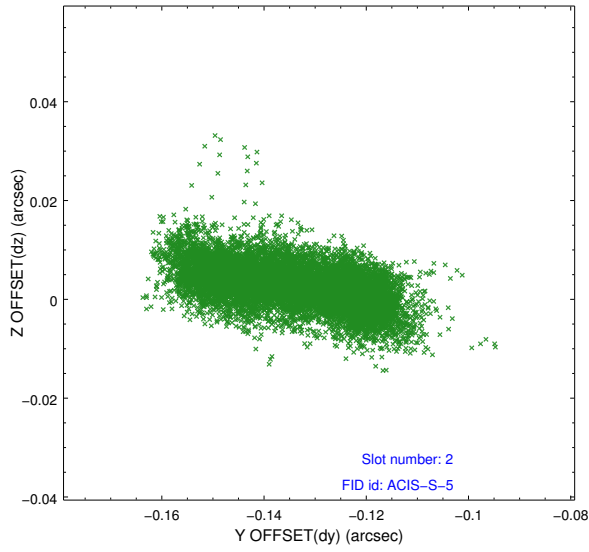
### 2.5.1 Slot 0



## 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)	2012.04.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	39.8111998

## A.2 Comments