

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 2732 - L2 Version 3  
Chandra X-Ray Center

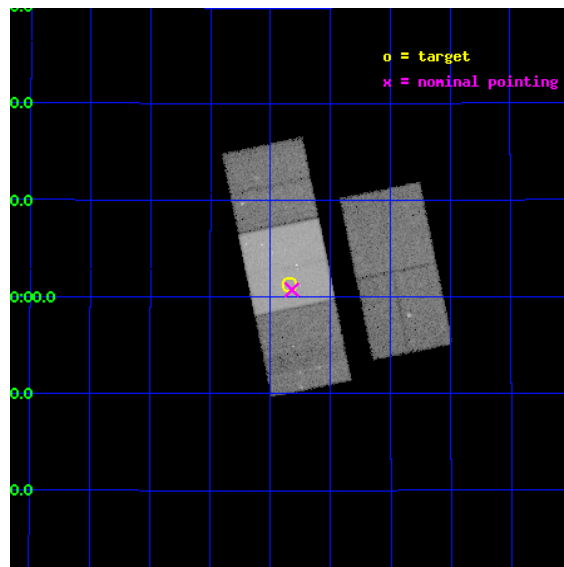
L2 Processing Date : Oct 17 2012

## 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

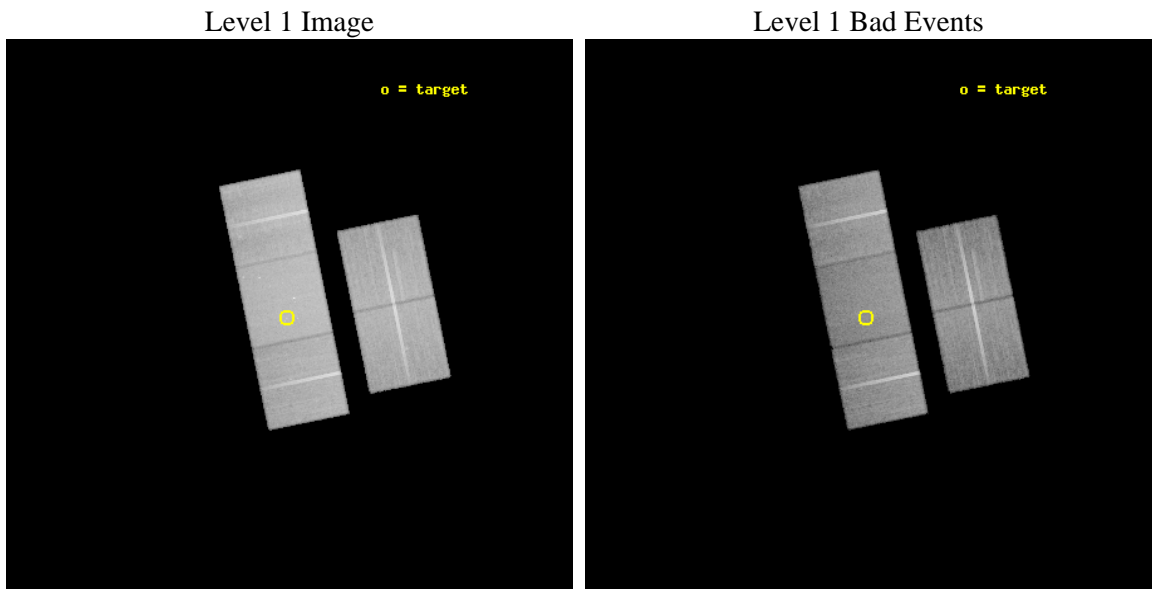
seq_num	400212	Sequence number
obs_id	2732	Observation id
title	LOCALIZING THE HIGH LATITUDE X-RAY TRANSIENT 4U 0042+32	Proposal t
observer	Dr. John Tomsick	Principal investigator
object	4U 0042+32	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	11.209583	Observer's specified target RA [deg]
dec_targ	33.021389	Observer's specified target Dec [deg]
ra_nom	11.205320418928	Nominal RA [deg]
dec_nom	33.012395851912	Nominal Dec [deg]
roll_nom	258.38859471797	Nominal Roll [deg]
revision	3	Processing version of data
ontime	40129.499922812	Sum of GTIs [s]
livetime	39605.178463412	Livetime [s]
ontime2	40126.358942598	Sum of GTIs [s]
ontime3	40123.217942446	Sum of GTIs [s]
ontime6	40123.217962384	Sum of GTIs [s]
ontime7	40129.499922812	Sum of GTIs [s]
ontime8	40126.358952582	Sum of GTIs [s]
l2events	263582	Number of level 2 events



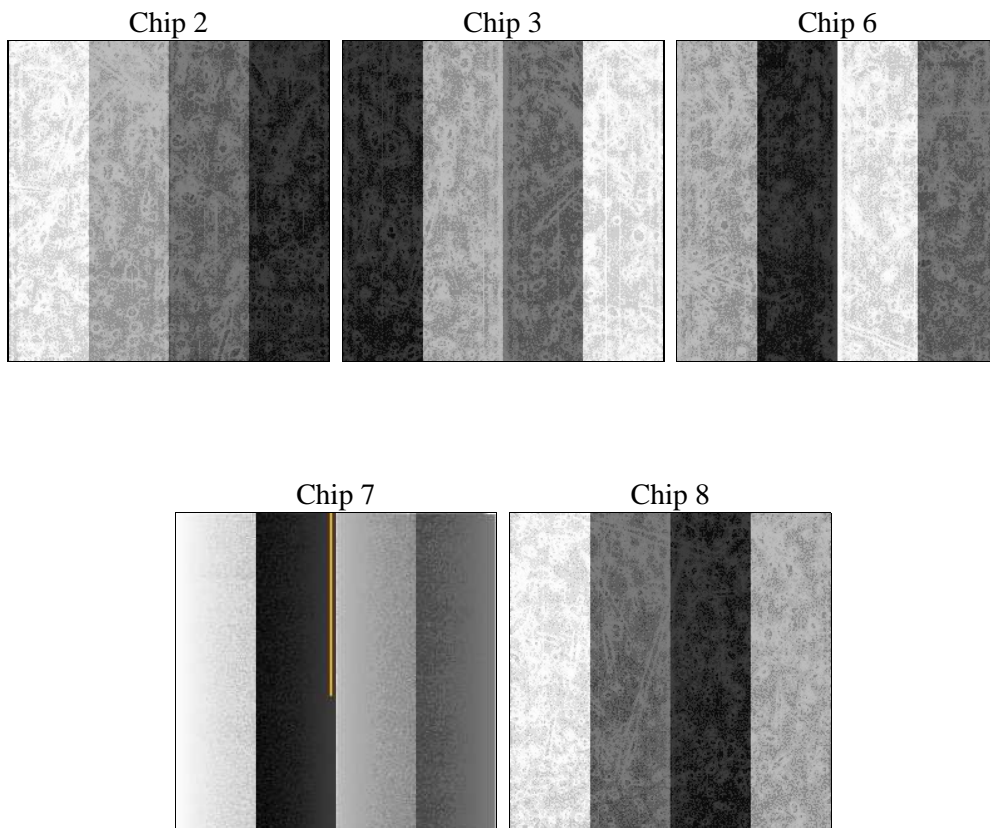
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	40000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	40129.499922812	Sum of GTIs [s]
caldbver	4.5.2	&#160	ontime2	40126.358942598	Sum of GTIs [s]
date	2012-10-17T12:32:55	Date and time of file creation	ontime3	40123.217942446	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	40123.217962384	Sum of GTIs [s]
			ontime7	40129.499922812	Sum of GTIs [s]
			ontime8	40126.358952582	Sum of GTIs [s]
			l1events	1463655	Number of level 1 events

### 2.1.4 Events

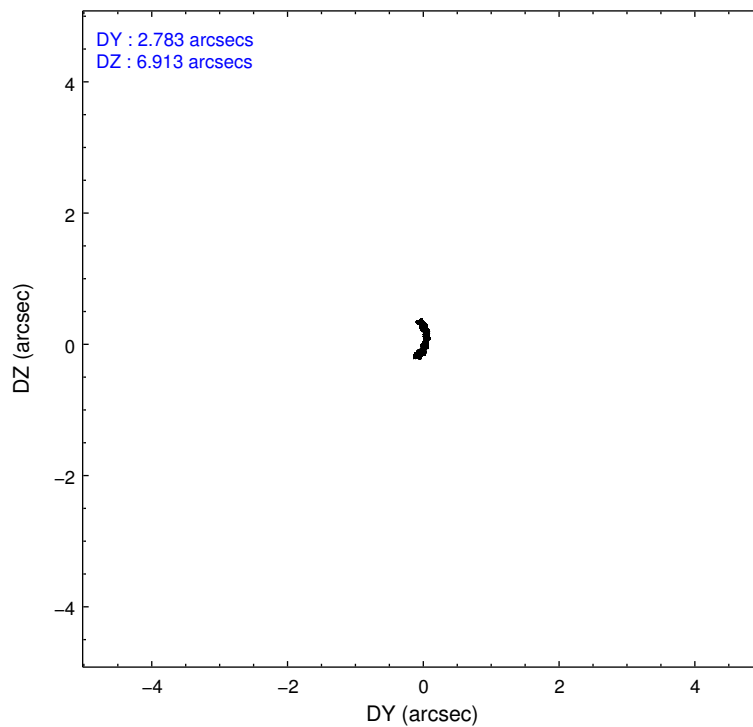
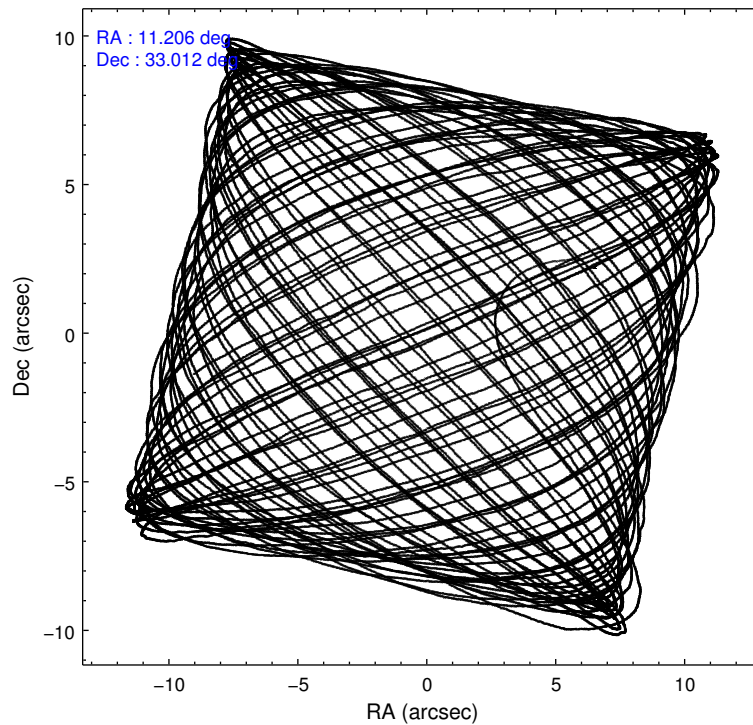
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	254709	259931	269045	352521	327449
rejected events	222524	228152	235805	201921	259670
rejected %	87%	87%	87%	57%	79%

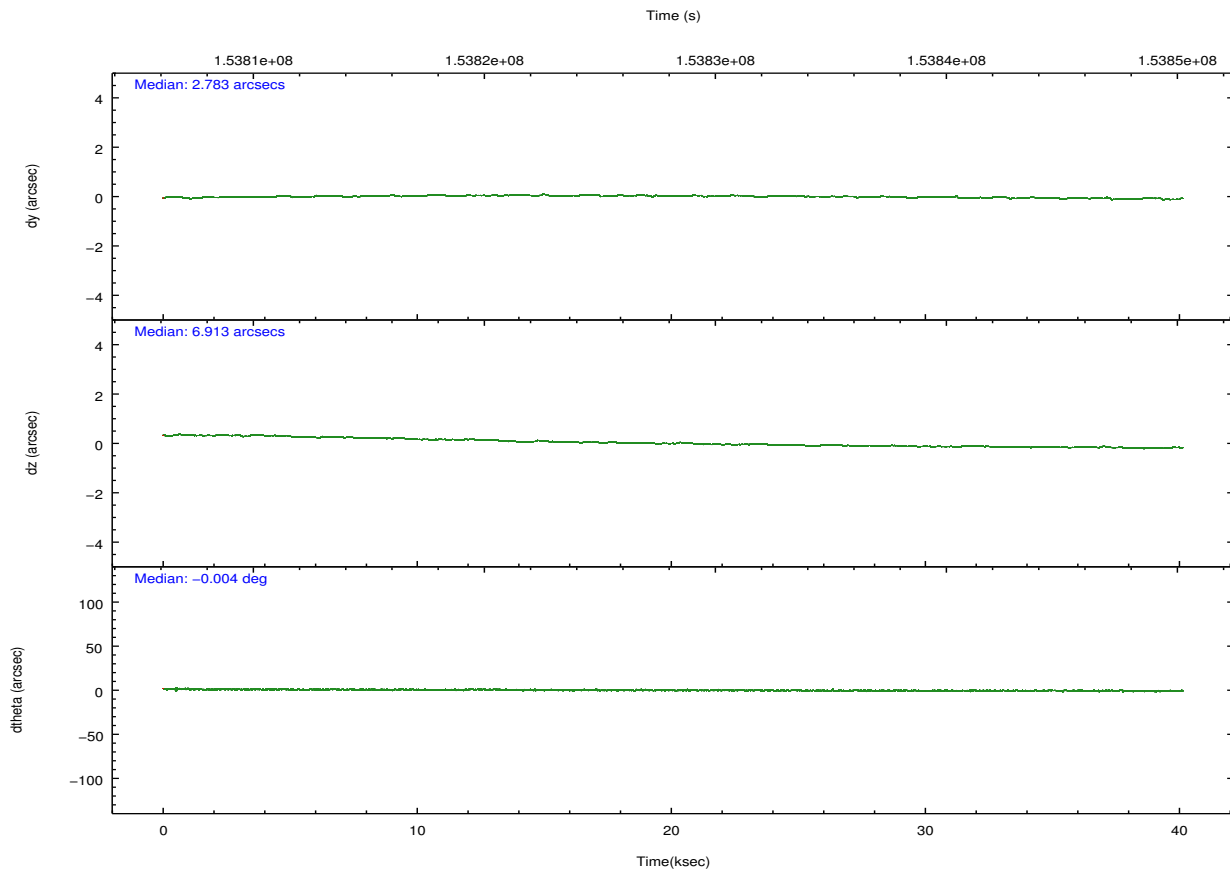
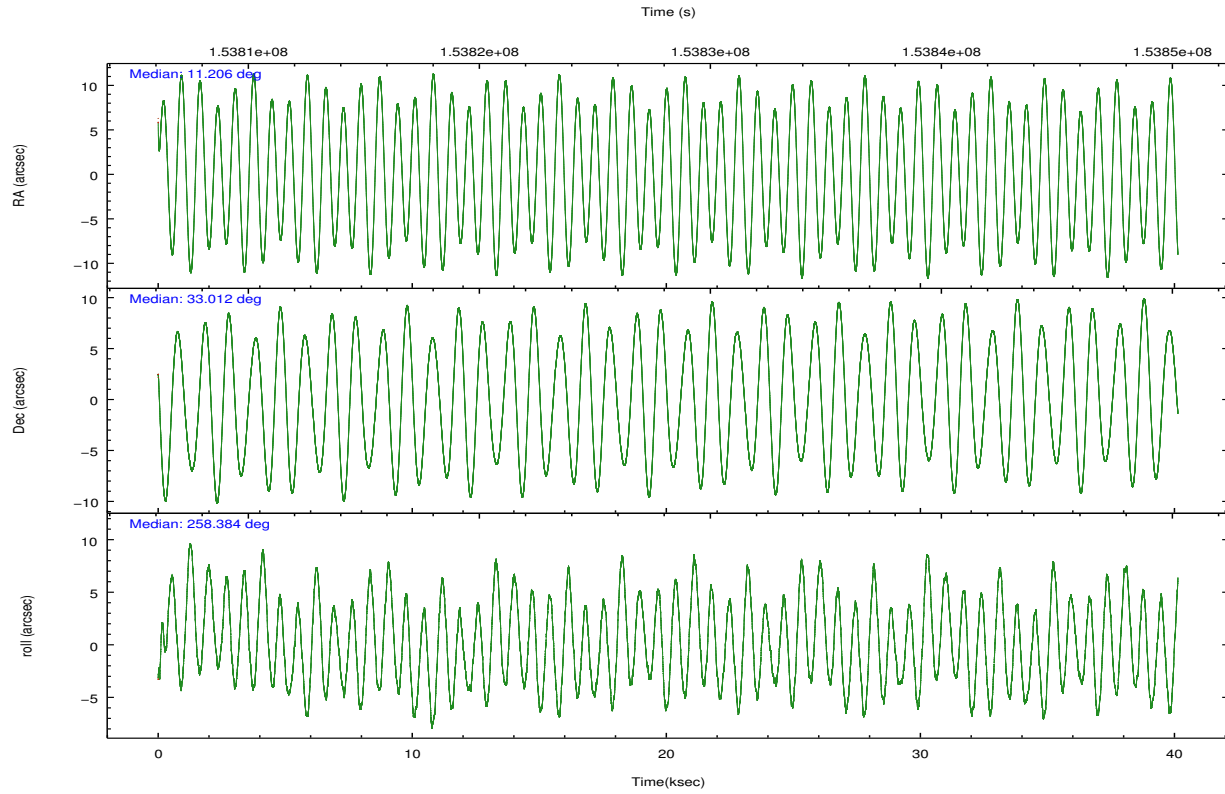
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	15616	14812	14294	14579	23343
	6%	5%	5%	4%	7%
grade 1 events	158	162	142	309	222
	0%	0%	0%	0%	0%
grade 2 events	6147	5873	6591	29500	14429
	2%	2%	2%	8%	4%
grade 3 events	2866	2985	3118	13456	7117
	1%	1%	1%	3%	2%
grade 4 events	2951	3043	3086	13089	6689
	1%	1%	1%	3%	2%
grade 5 events	9529	11014	11554	32738	14758
	3%	4%	4%	9%	4%
grade 6 events	4890	5343	6477	81094	16803
	1%	2%	2%	23%	5%
grade 7 events	212552	216699	223783	167756	244088
	83%	83%	83%	47%	74%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23678	ACIS-23678	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	11.194647	11.20532041892788	Subarray requested	NONE	NONE
[deg] Pointing Dec	33.038128	33.01239585191228	Alternating exposures requested	N	N
[deg] Pointing Roll	258.237781	258.388594717969	[s] Primary exposure time	0.000000	3.1
[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)	153808232.184000	153807177.57716			
Observation start date	2002-11-16T04:29:28	2002-11-16T04:12:57			
[s] Observation end time (MET)	153848232.184000	153849059.5914			
Observation end date	2002-11-16T15:36:08	2002-11-16T15:50:59			
Read mode	TIMED	TIMED			

## 2.3 Aspect



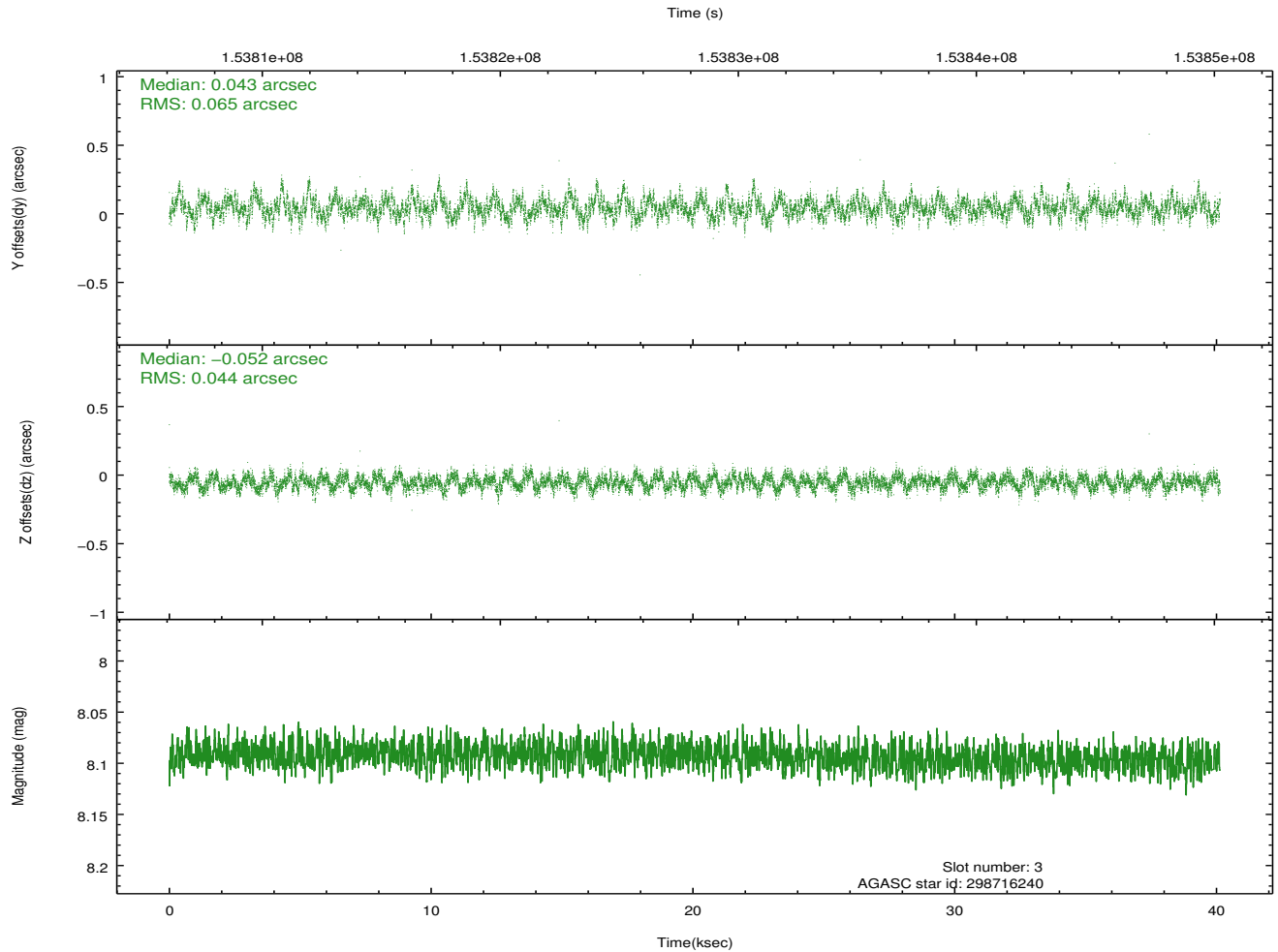
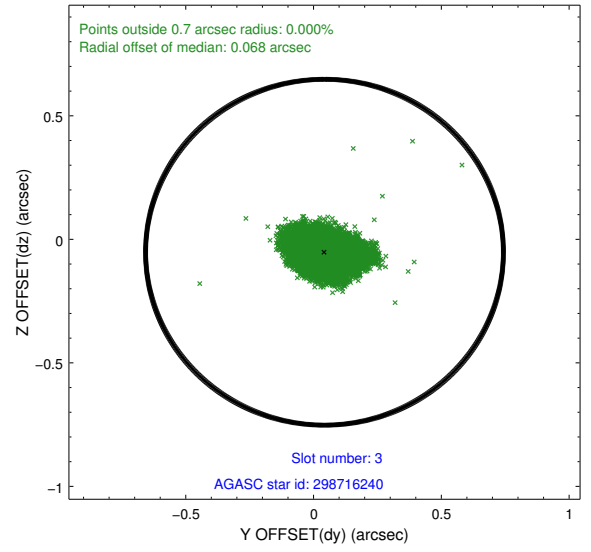
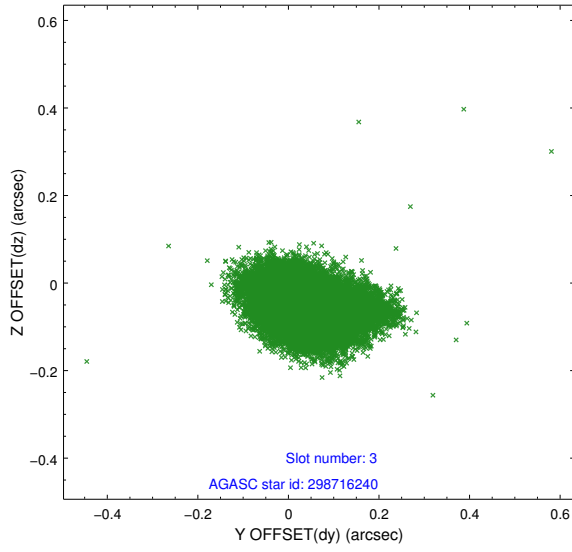


### Slot Statistics

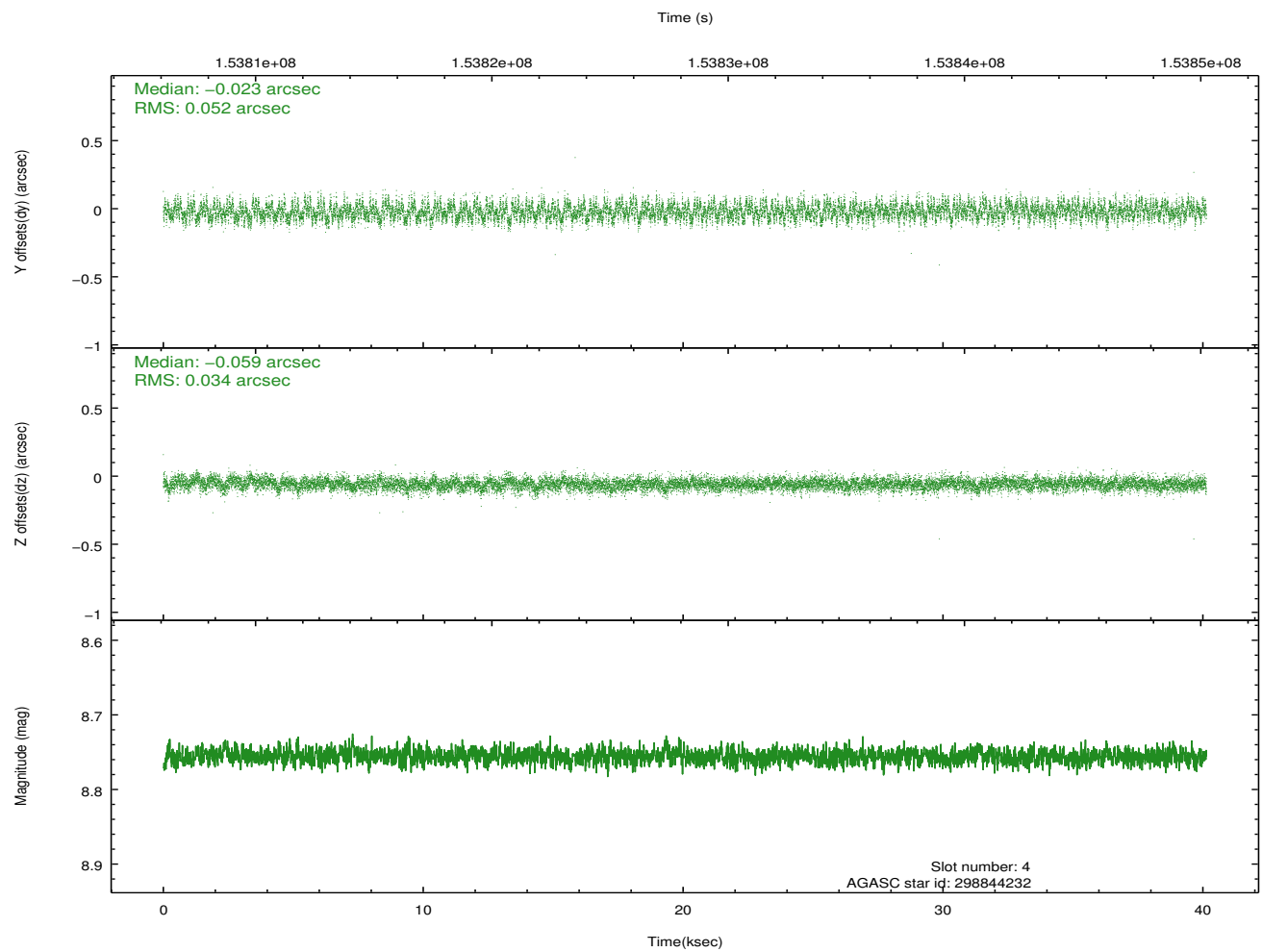
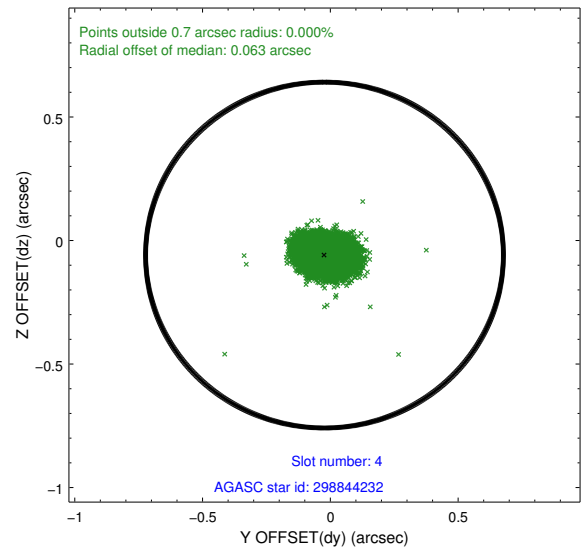
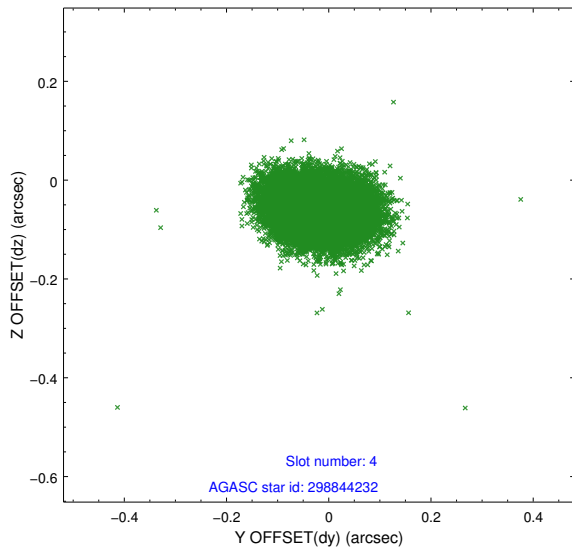
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.12	9790	-0.027	-0.001	0.008	0.012	0.000000	0.000000	-755.43	-1728.12
1	FID	ACIS-S-4	7.20	9788	-0.005	0.013	0.006	0.011	0.000000	0.000000	2157.85	180.38
2	FID	ACIS-S-5	7.24	9789	0.000	-0.003	0.007	0.013	0.000000	0.000000	-1808.23	174.03
3	GUIDE	298716240	8.09	19576	0.043	-0.052	0.082	0.138	10.519727	32.611037	1916.36	-1692.71
4	GUIDE	298844232	8.76	19579	-0.023	-0.059	0.066	0.107	11.525885	33.537180	-1962.88	605.14
5	GUIDE	298846320	9.62	19569	0.040	0.026	0.092	0.145	11.568106	32.350684	2189.38	1615.10
6	GUIDE	298717496	9.24	19573	-0.024	0.076	0.084	0.138	11.249293	33.694578	-2346.83	-322.58
7	GUIDE	298846552	8.79	19575	-0.040	0.009	0.063	0.102	11.679811	32.494360	1612.71	1839.60

## 2.4 Star Slots

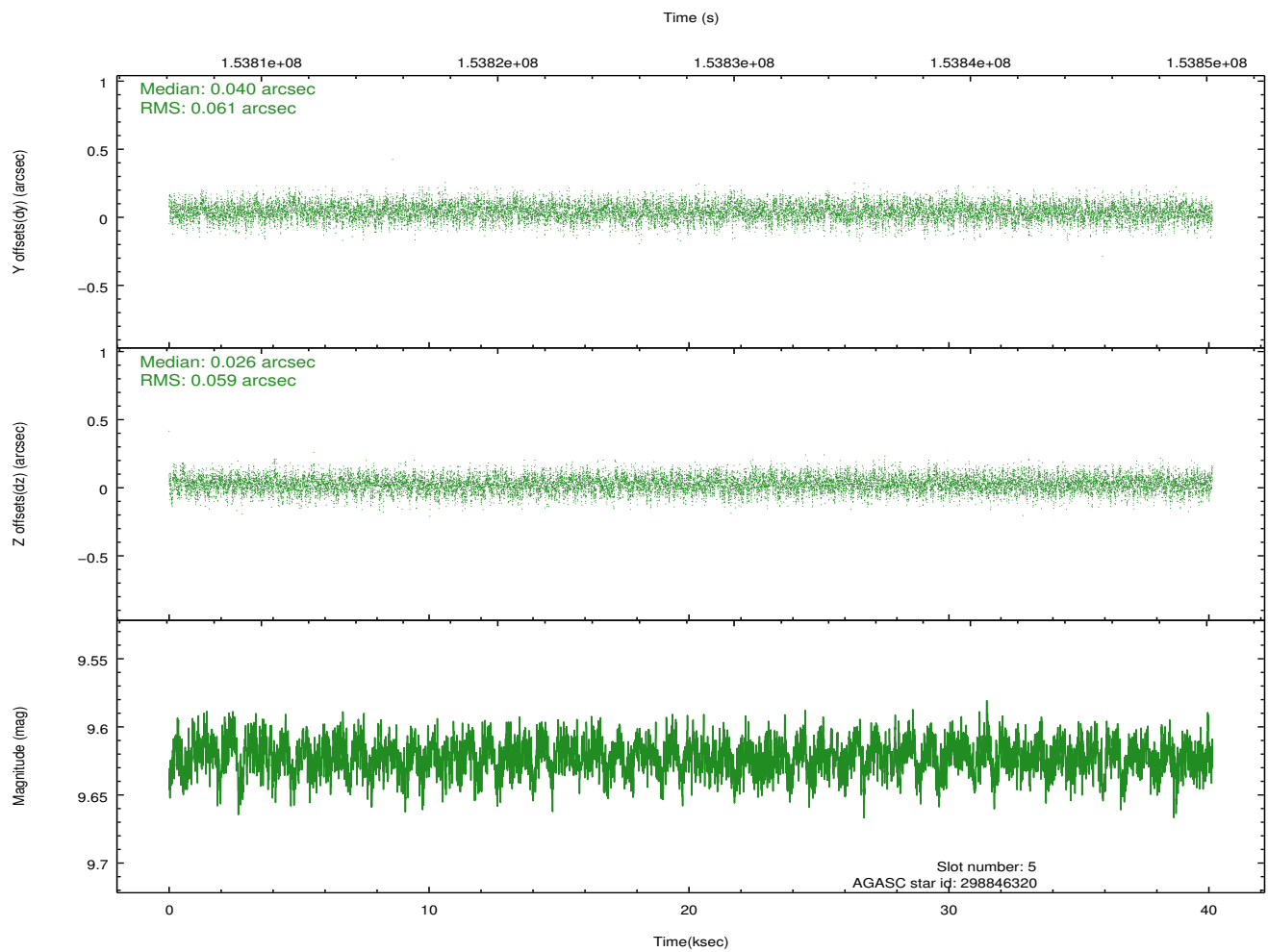
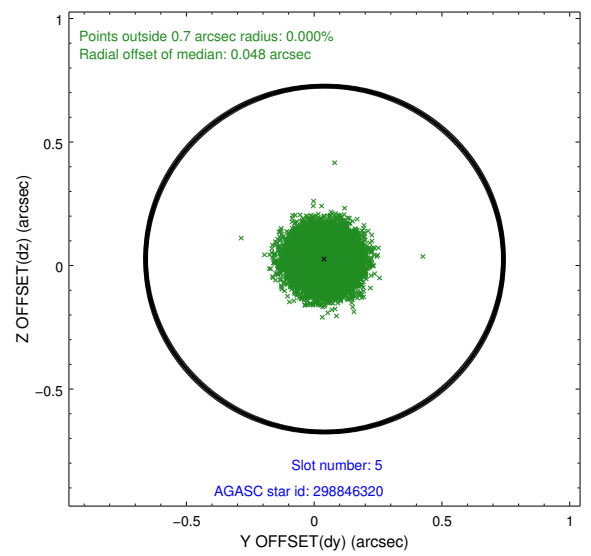
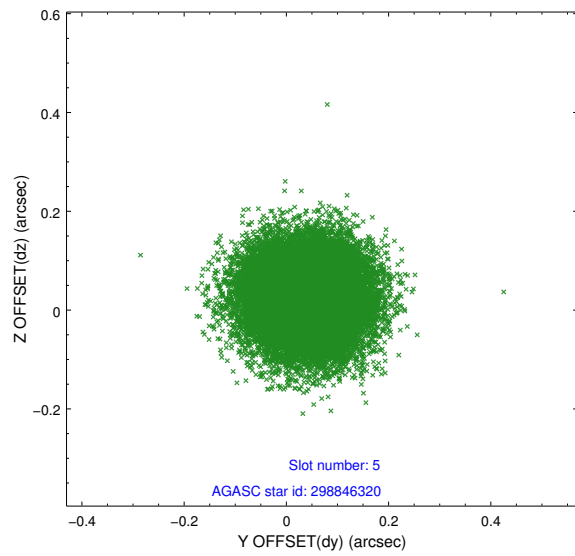
### 2.4.1 Slot 3



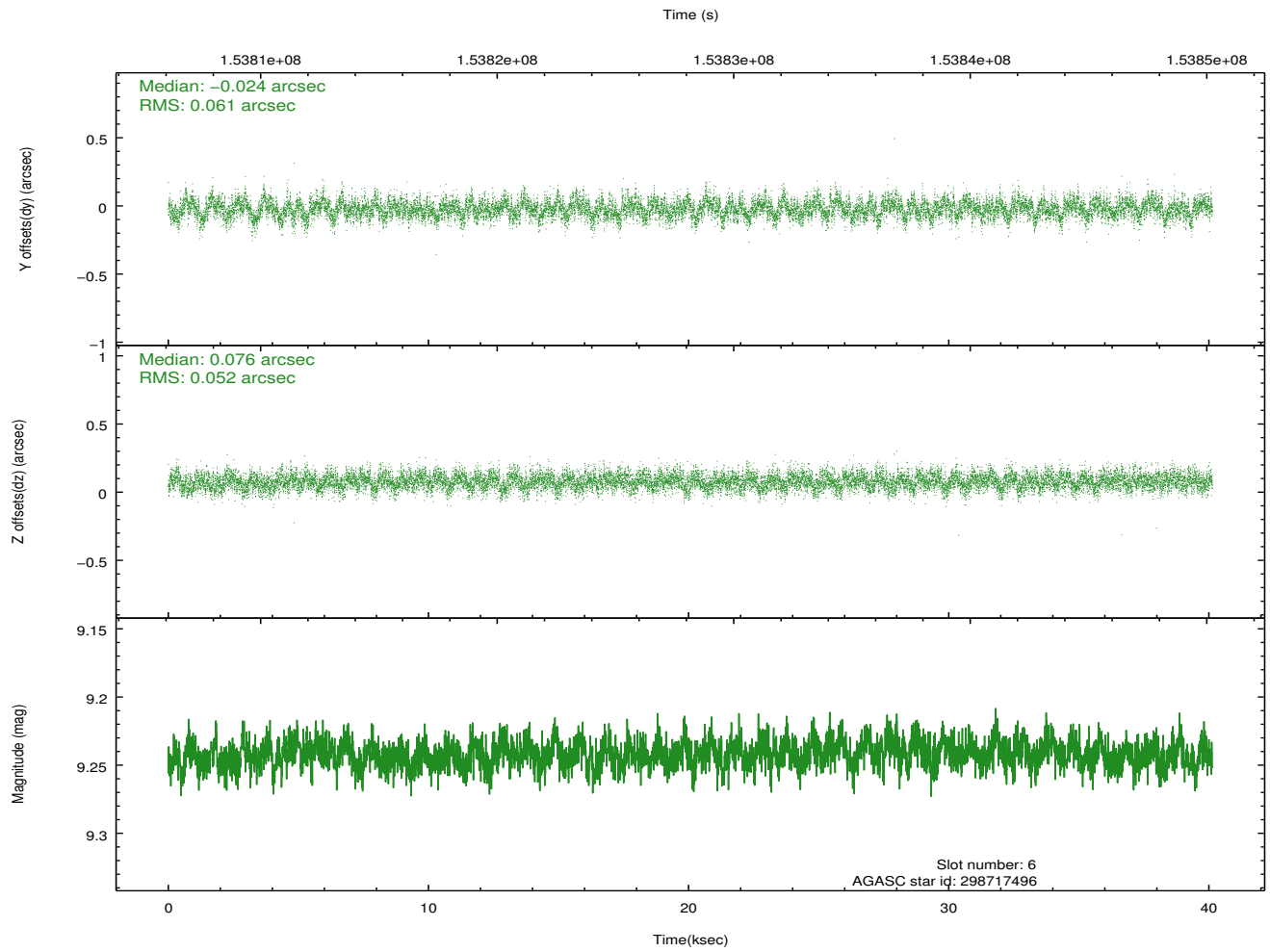
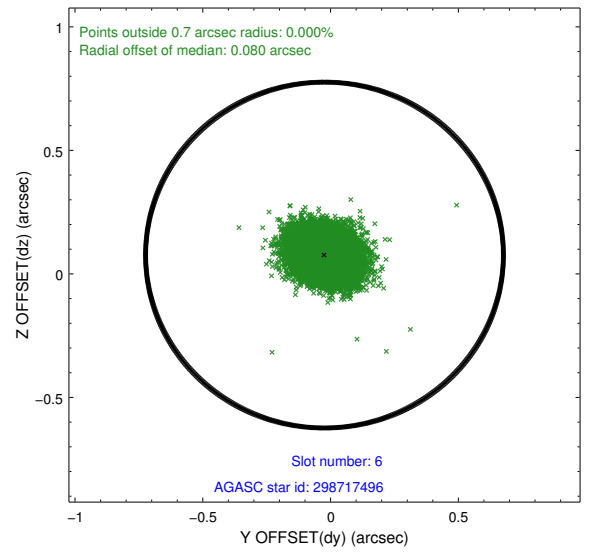
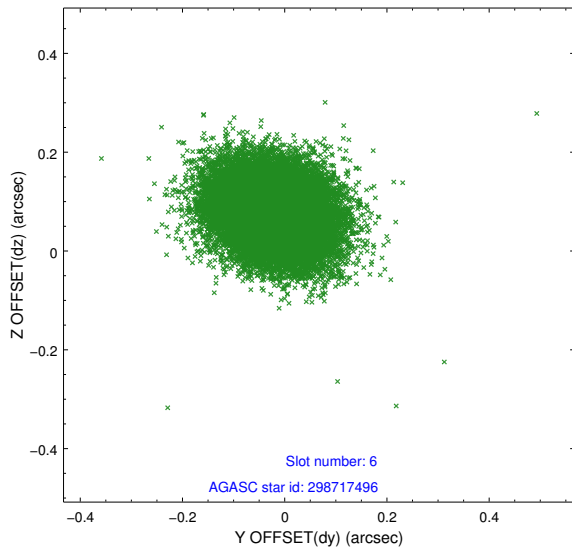
## 2.4.2 Slot 4



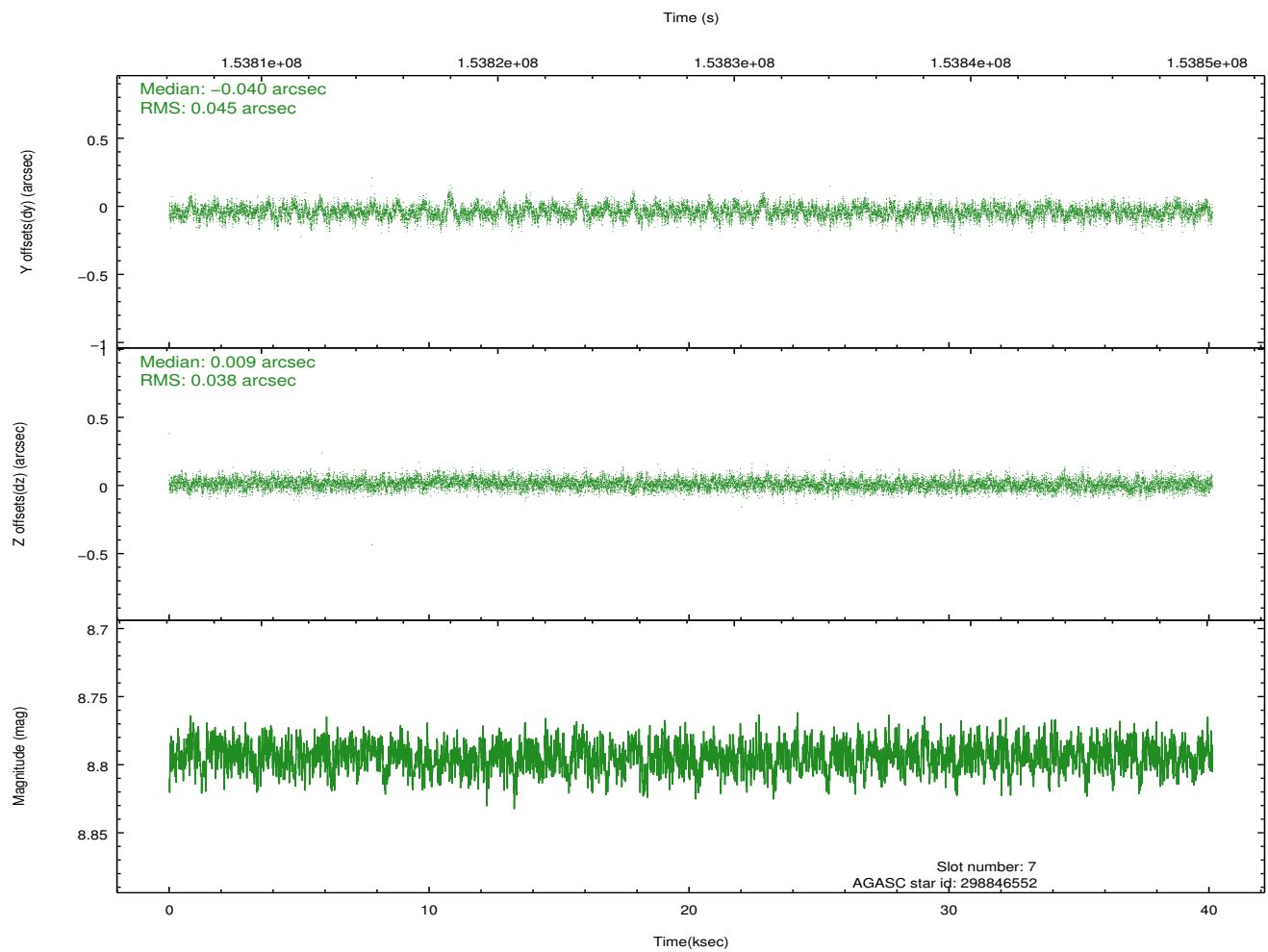
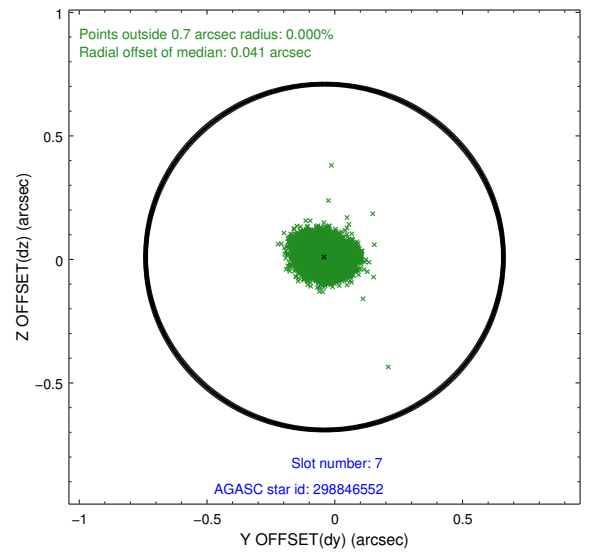
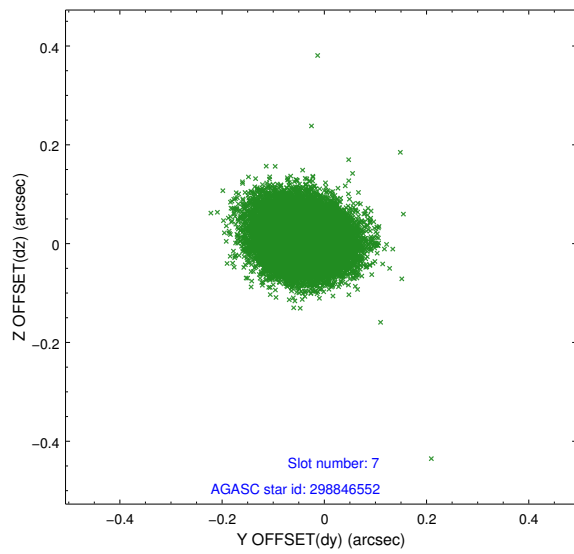
### 2.4.3 Slot 5



## 2.4.4 Slot 6

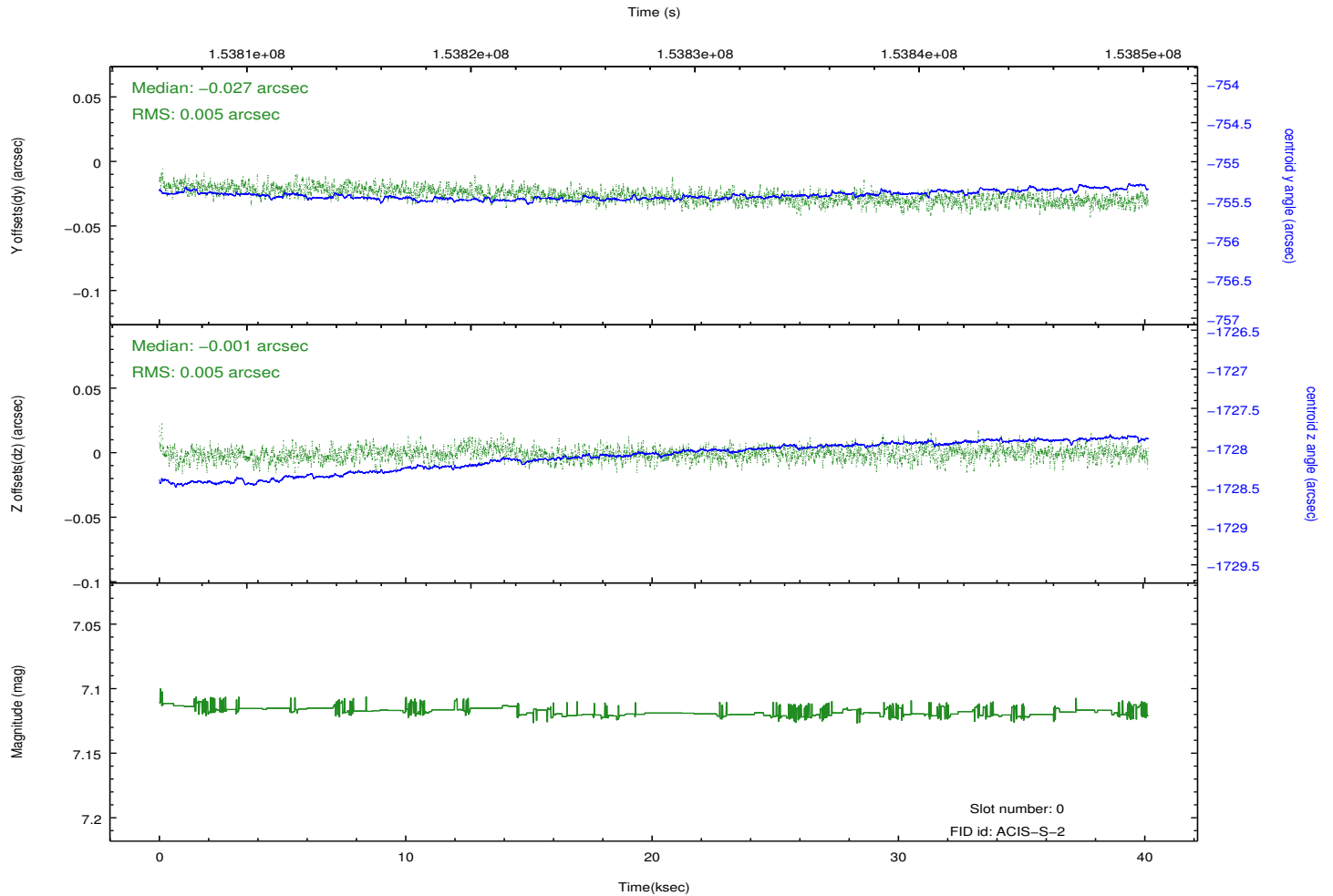
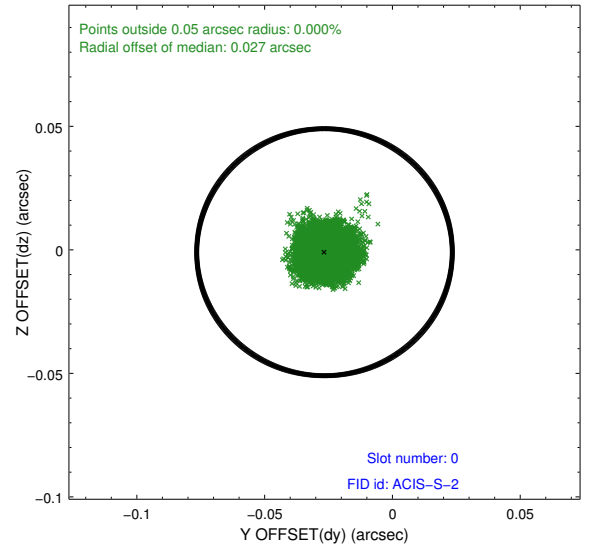
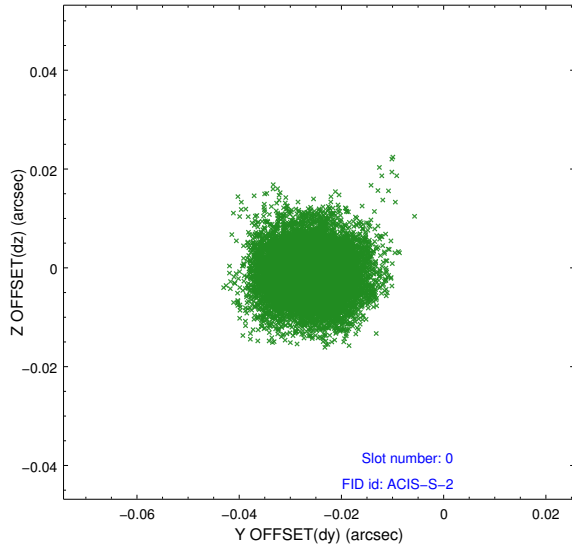


## 2.4.5 Slot 7

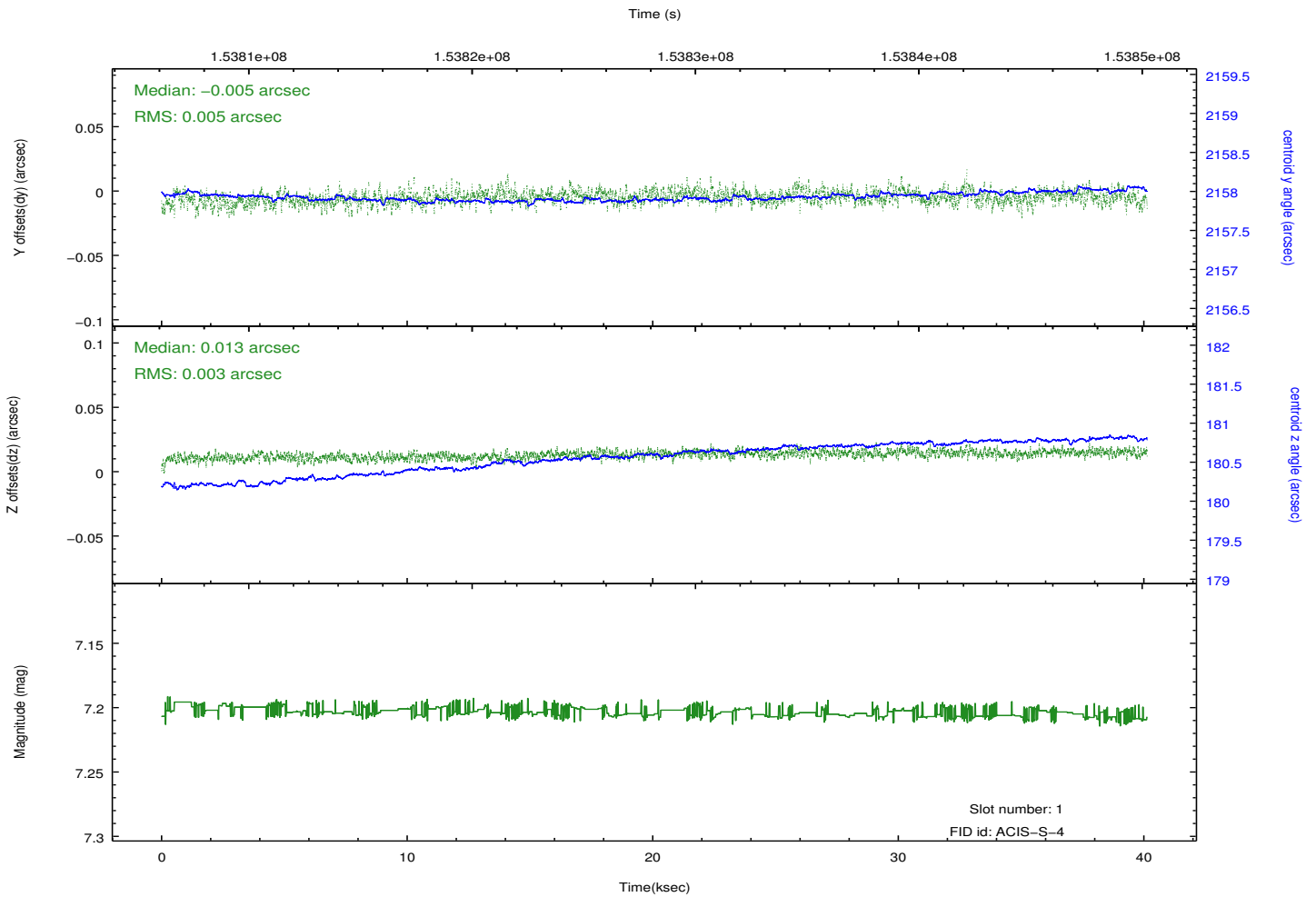
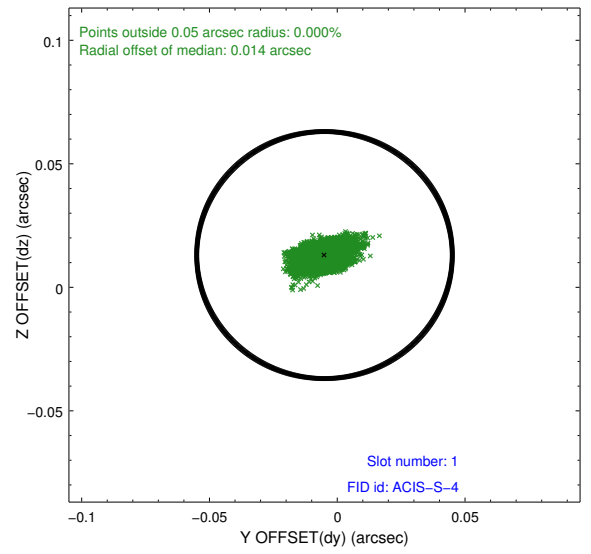
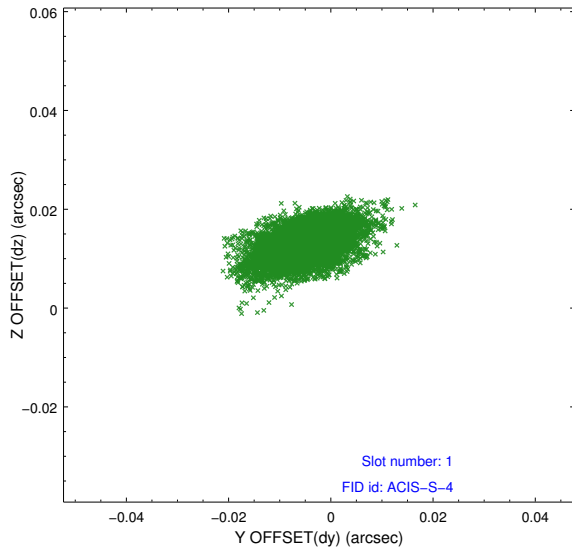


## 2.5 FID Slots

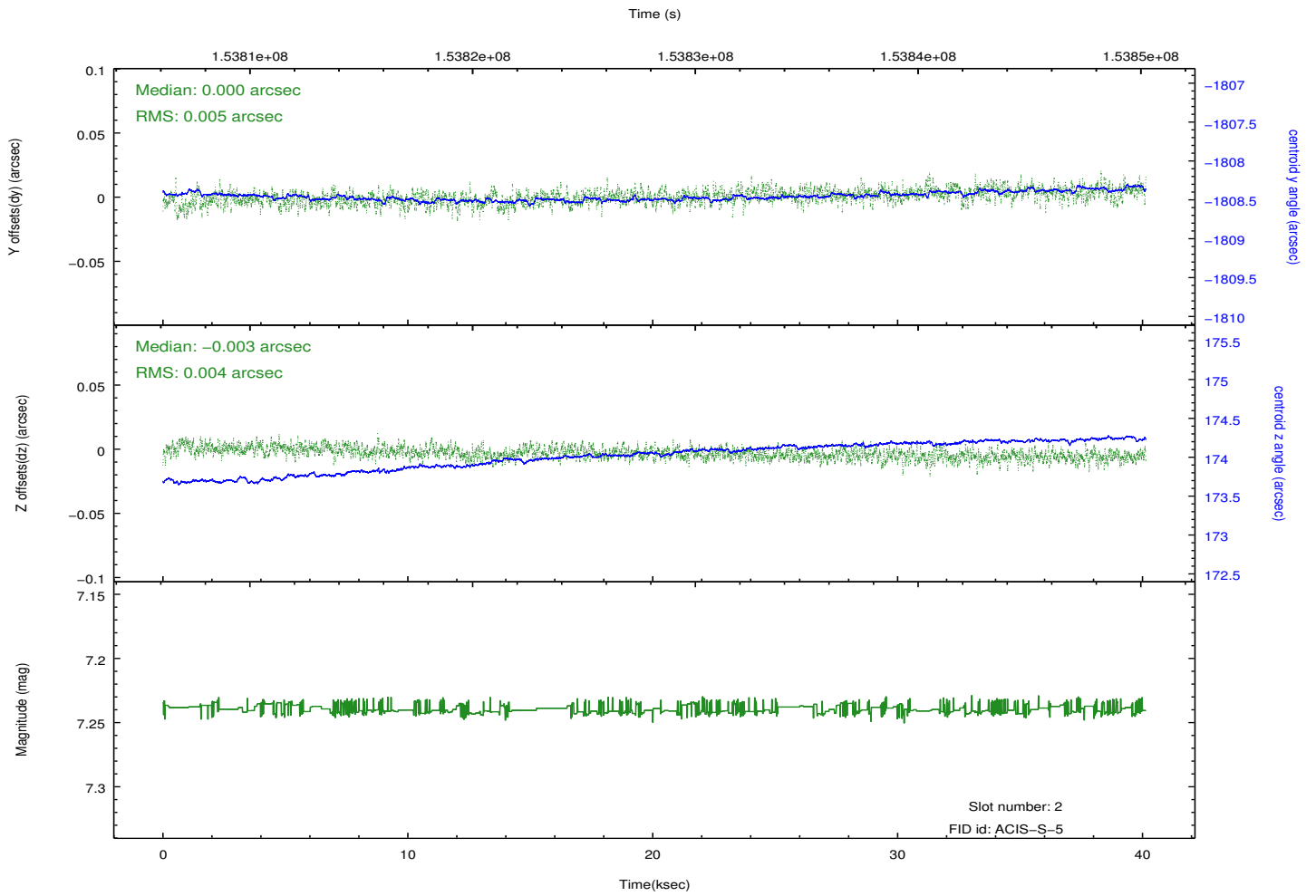
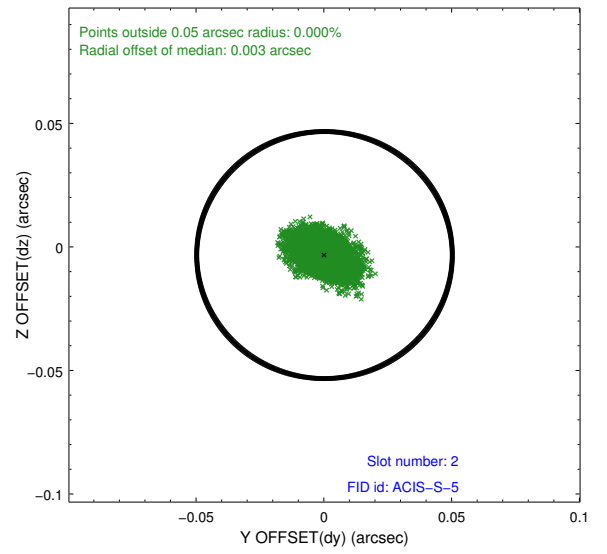
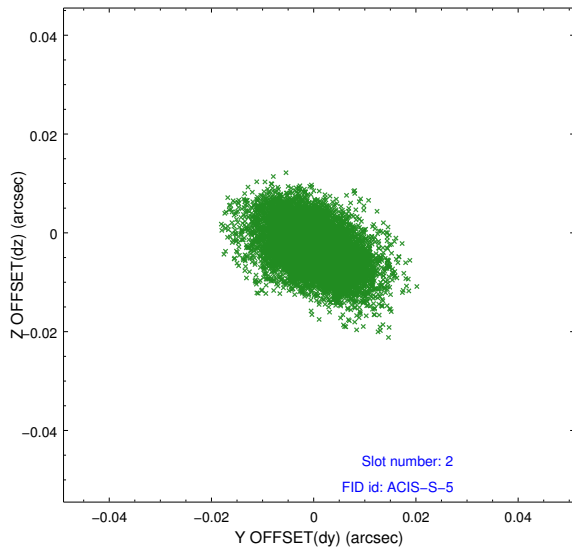
### 2.5.1 Slot 0



## 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)	2012.10.26
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	40.129

## A.2 Comments