

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 4032 - L2 Version 3  
Chandra X-Ray Center

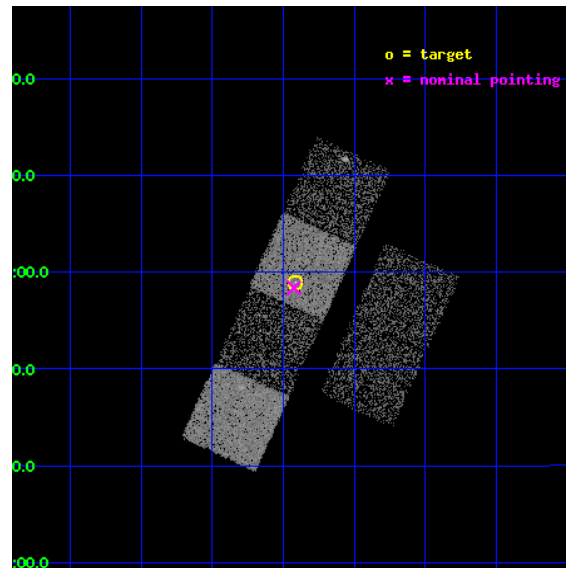
L2 Processing Date : Oct 20 2012

## 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

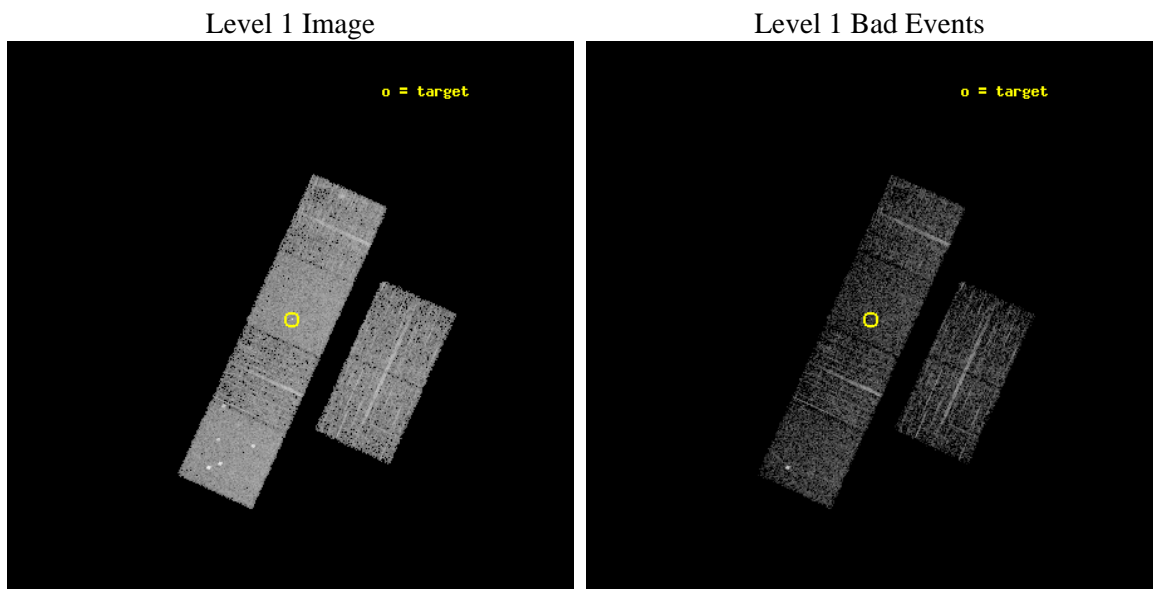
seq_num	700711	Sequence number
obs_id	4032	Observation id
title	WHY DO WE SEE BROAD LINES IN X-RAY ABSORBED AGN?	Proposal title
observer	Dr. Belinda Wilkes	Principal investigator
object	2MASS040925+075856	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	62.35375	Observer's specified target RA [deg]
dec_targ	7.98225	Observer's specified target Dec [deg]
ra_nom	62.356258369722	Nominal RA [deg]
dec_nom	7.9729609535689	Nominal Dec [deg]
roll_nom	294.41880947533	Nominal Roll [deg]
revision	3	Processing version of data
ontime	3340.7999875546	Sum of GTIs [s]
livetime	3298.4967665239	Livetime [s]
ontime2	3340.7999875546	Sum of GTIs [s]
ontime3	3340.7999875546	Sum of GTIs [s]
ontime5	3340.7999875546	Sum of GTIs [s]
ontime6	3340.7999875546	Sum of GTIs [s]
ontime7	3340.7999875546	Sum of GTIs [s]
ontime8	3340.7757901251	Sum of GTIs [s]
l2events	33301	Number of level 2 events



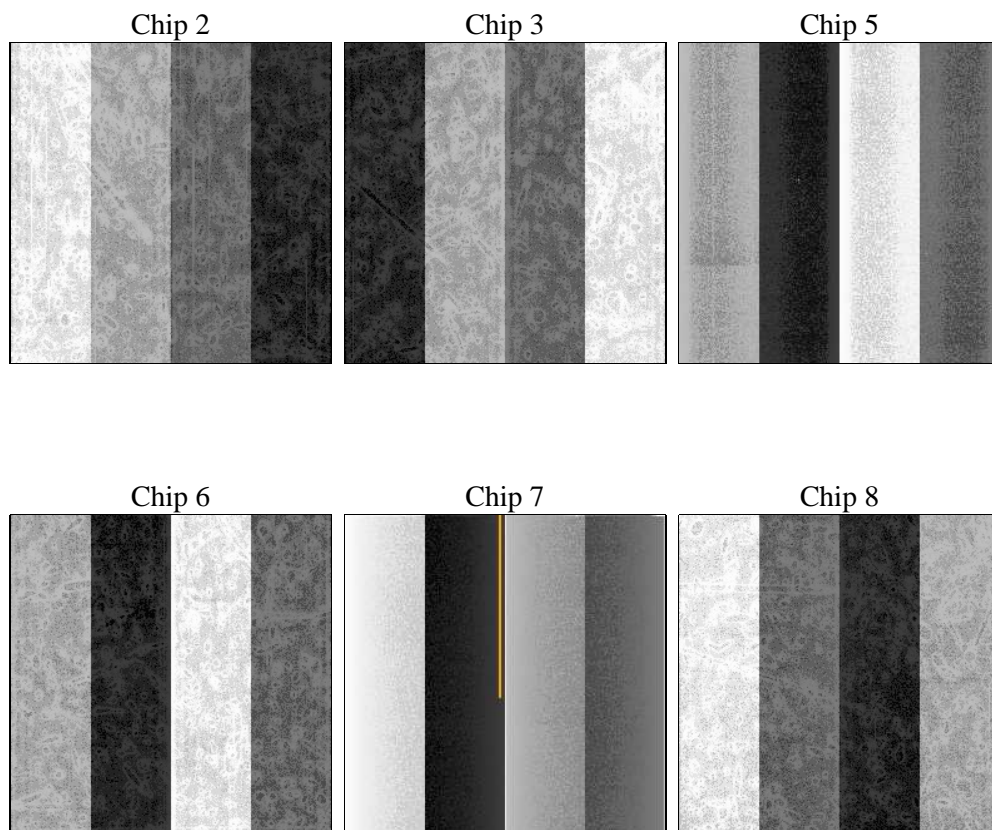
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3380.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	3340.7999875546	Sum of GTIs [s]
caldsver	4.5.2	&#160	ontime2	3340.7999875546	Sum of GTIs [s]
date	2012-10-20T16:50:25	Date and time of file creation	ontime3	3340.7999875546	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	3340.7999875546	Sum of GTIs [s]
			ontime6	3340.7999875546	Sum of GTIs [s]
			ontime7	3340.7999875546	Sum of GTIs [s]
			ontime8	3340.7757901251	Sum of GTIs [s]
			l1events	149205	Number of level 1 events

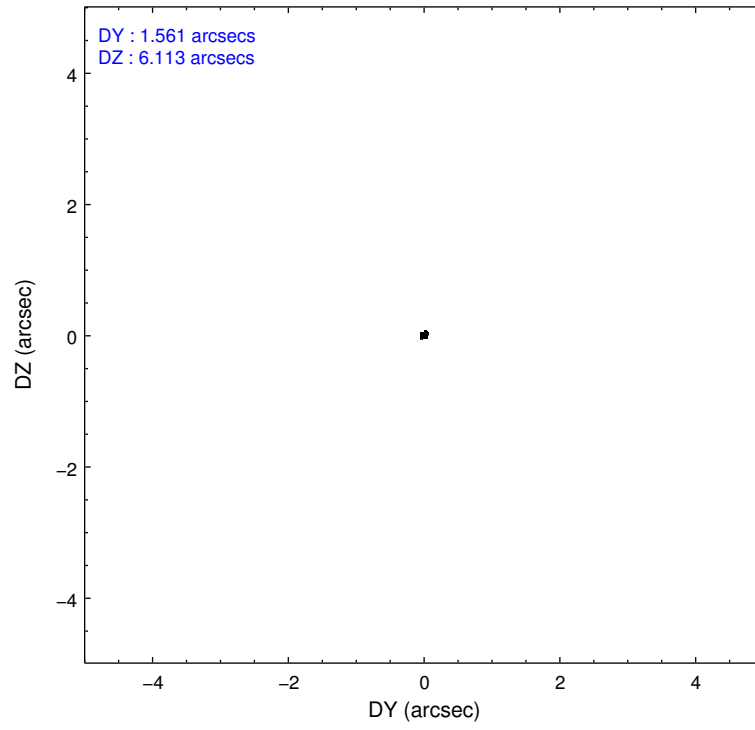
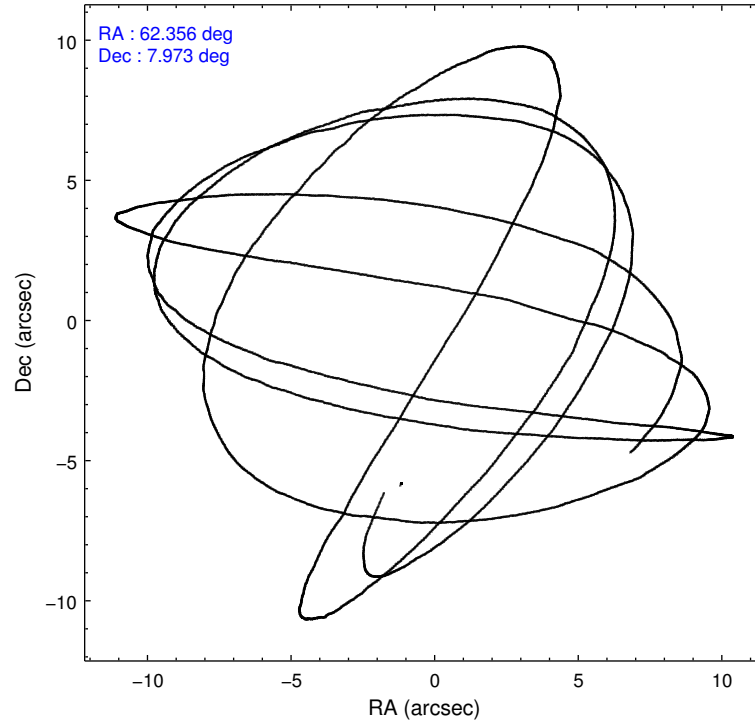
### 2.1.4 Events

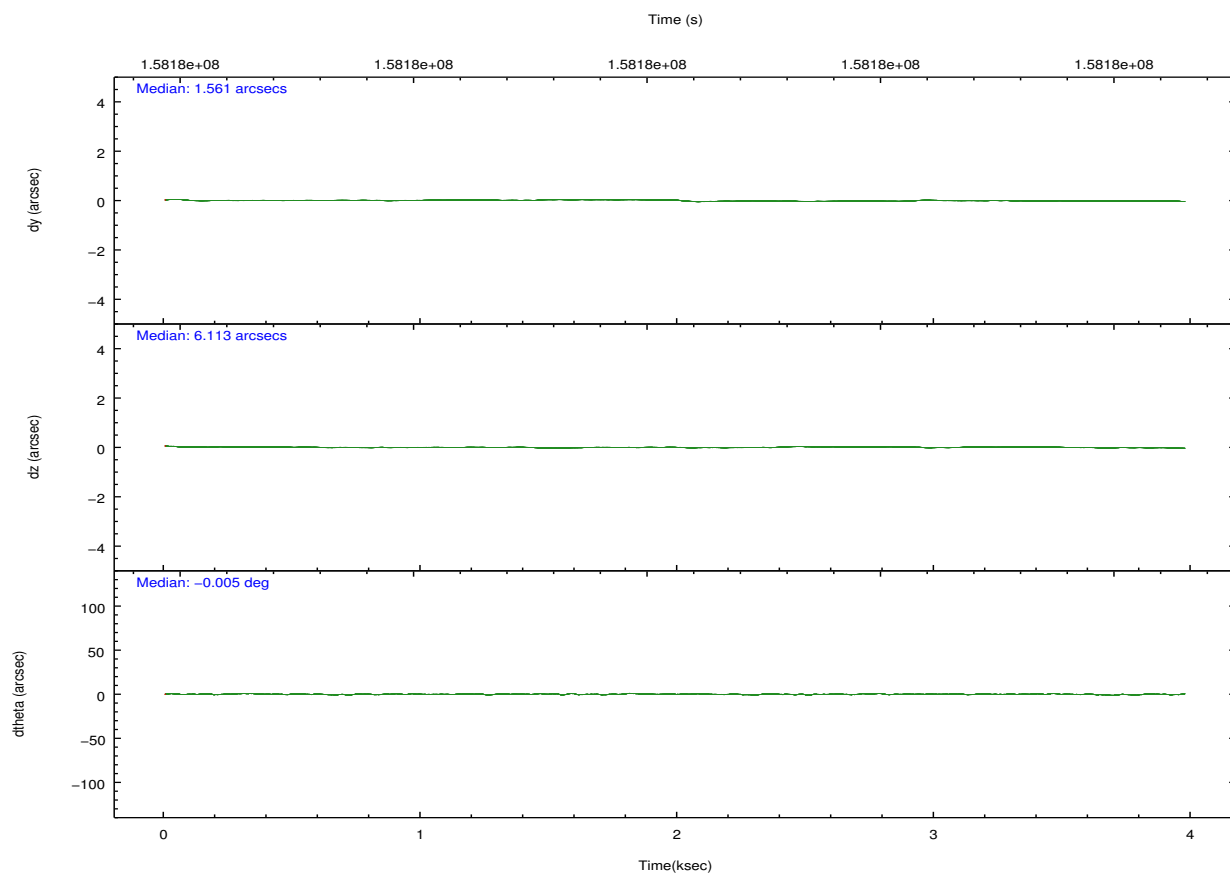
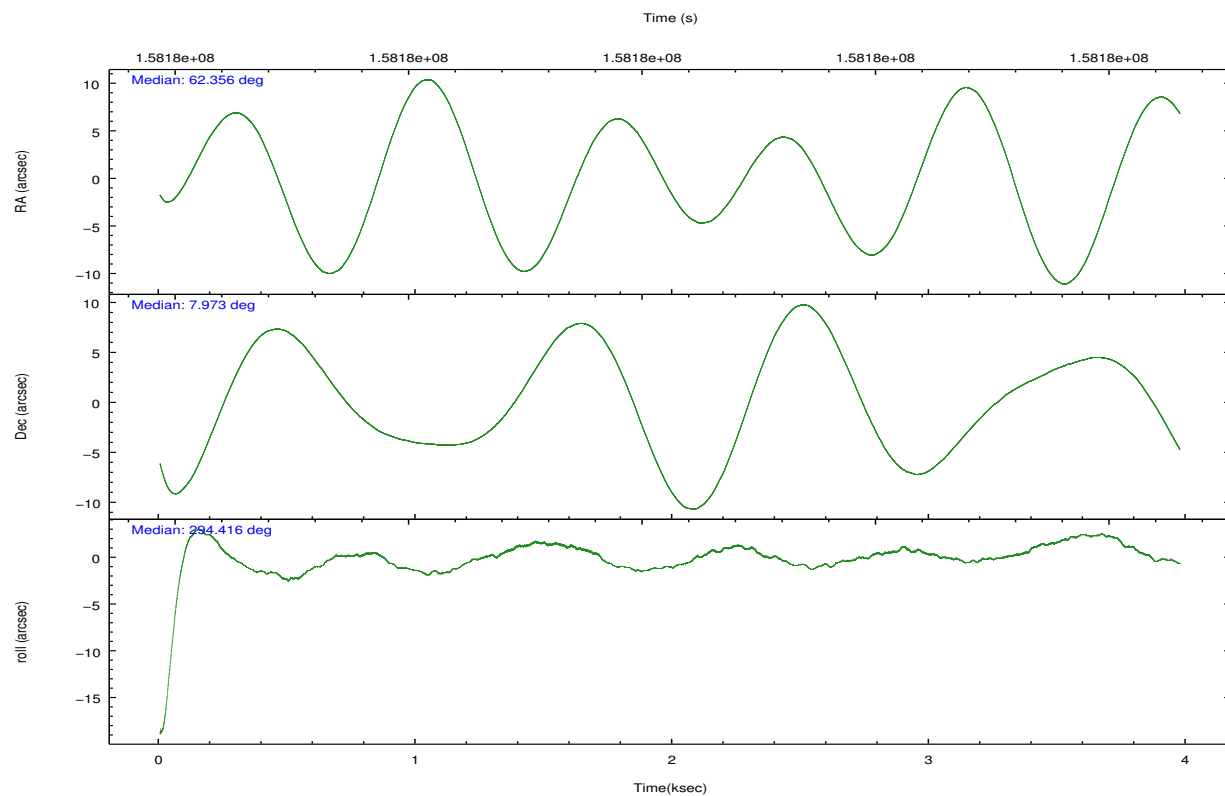
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	21858	19712	32885	21673	27644	25433	grade 0 events	1112	1060	2553	1094	1100	1961
rejected events	19362	17330	17368	19043	16096	19628		5%	5%	7%	5%	3%	7%
rejected %	88%	87%	52%	87%	58%	77%	grade 1 events	8	6	51	13	26	20
								0%	0%	0%	0%	0%	0%
							grade 2 events	488	417	4379	508	2203	1184
								2%	2%	13%	2%	7%	4%
							grade 3 events	226	241	570	243	1065	619
								1%	1%	1%	1%	3%	2%
							grade 4 events	250	230	536	239	1025	627
								1%	1%	1%	1%	3%	2%
							grade 5 events	770	864	2431	912	2644	1167
								3%	4%	7%	4%	9%	4%
							grade 6 events	421	434	7496	548	6162	1419
								1%	2%	22%	2%	22%	5%
							grade 7 events	18583	16460	14869	18116	13419	18436
								85%	83%	45%	83%	48%	72%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-235678	ACIS-235678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	62.333591	62.3562583697223	Subarray requested	NONE	NONE
[deg] Pointing Dec	7.988426	7.972960953568938	Alternating exposures requested	N	N
[deg] Pointing Roll	294.265379	294.4188094753251	[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)	158180729.184000	158179565.35955			
Observation start date	2003-01-05T19:04:25	2003-01-05T18:46:05			
[s] Observation end time (MET)	158184109.184000	158184956.85978			
Observation end date	2003-01-05T20:00:45	2003-01-05T20:15:56			
Read mode	TIMED	TIMED			

## 2.3 Aspect



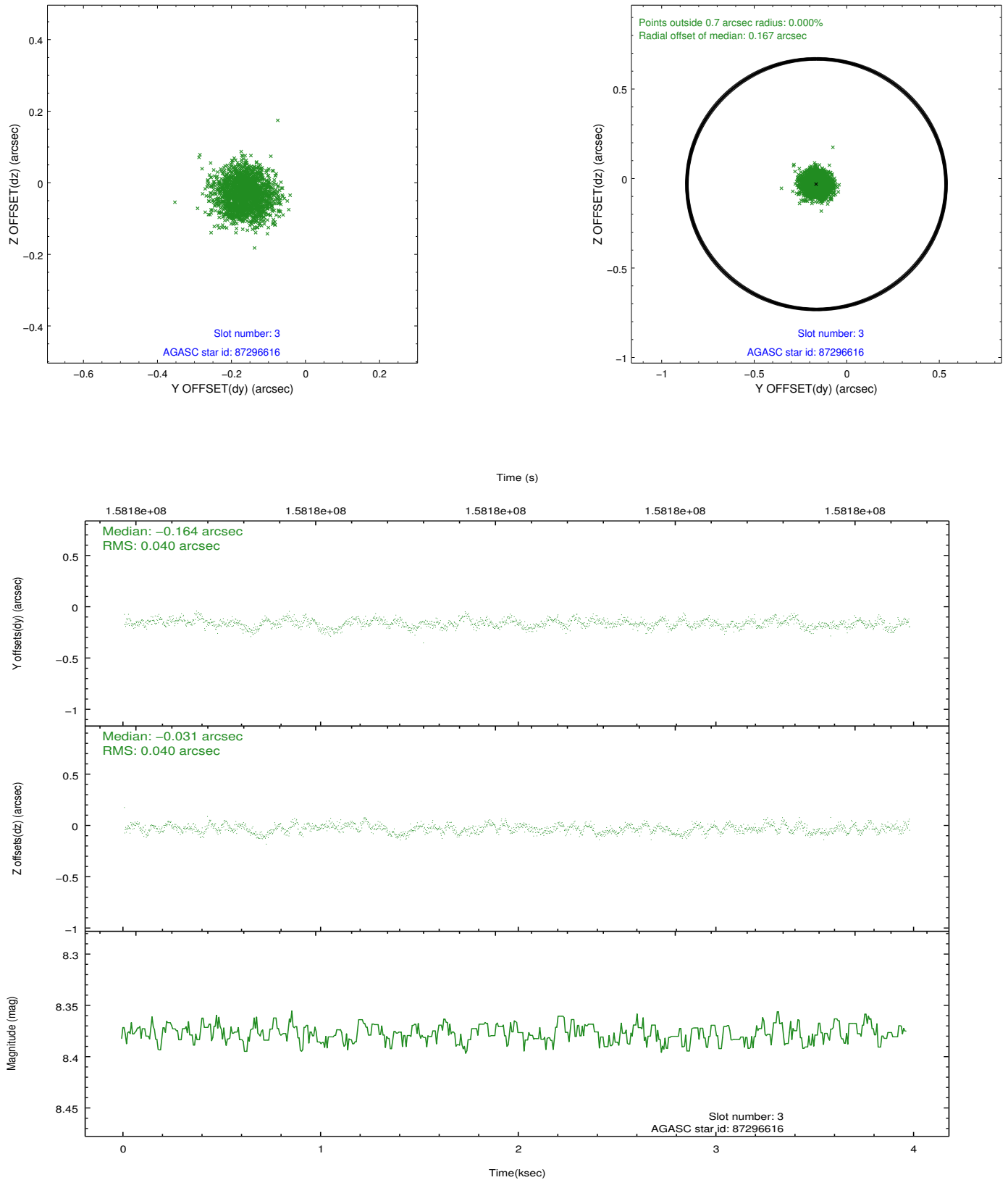


### Slot Statistics

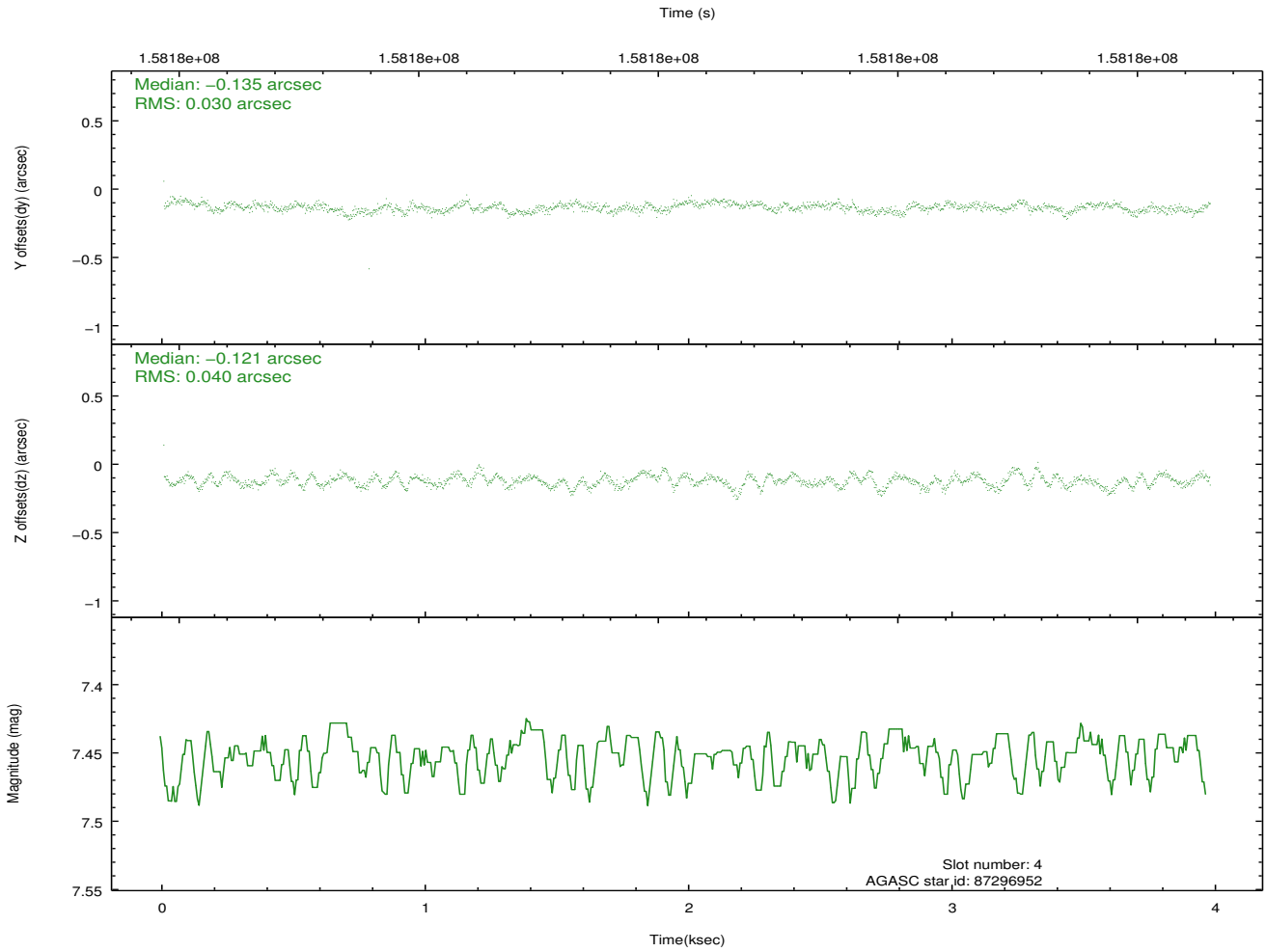
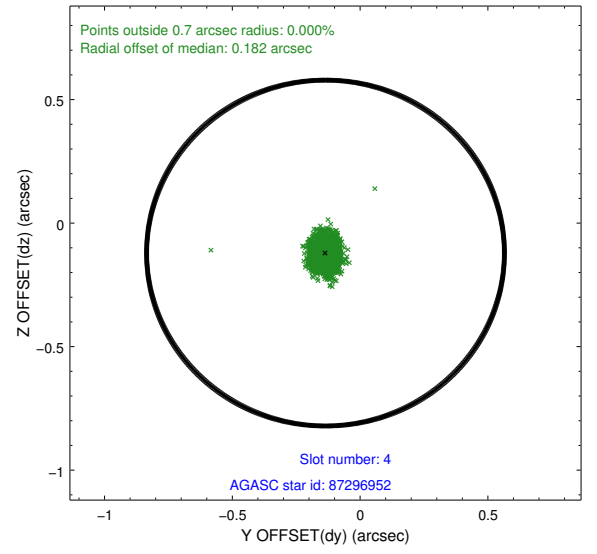
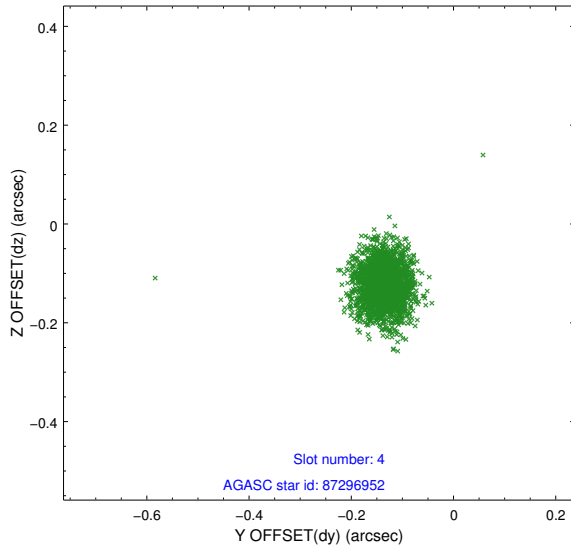
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	970	-0.062	-0.005	0.006	0.011	0.000000	0.000000	-754.19	-1727.28
1	FID	ACIS-S-4	7.21	970	0.018	0.031	0.006	0.010	0.000000	0.000000	2158.42	179.68
2	FID	ACIS-S-5	7.24	970	0.013	-0.018	0.006	0.011	0.000000	0.000000	-1804.97	175.01
3	GUIDE	87296616	8.38	1938	-0.164	-0.031	0.061	0.096	62.046045	8.299043	-1440.41	-474.57
4	GUIDE	87296952	7.45	1938	-0.135	-0.121	0.052	0.084	61.727060	8.191816	-1557.67	-1669.42
5	GUIDE	87298808	8.62	1937	-0.101	0.140	0.074	0.121	62.582975	8.414769	-1035.15	1439.56
6	GUIDE	87299016	8.85	1939	0.206	-0.105	0.065	0.106	62.528545	7.697911	1239.22	204.83
7	GUIDE	87299400	8.80	1937	0.192	0.121	0.055	0.088	62.491780	7.528579	1742.29	-165.51

## 2.4 Star Slots

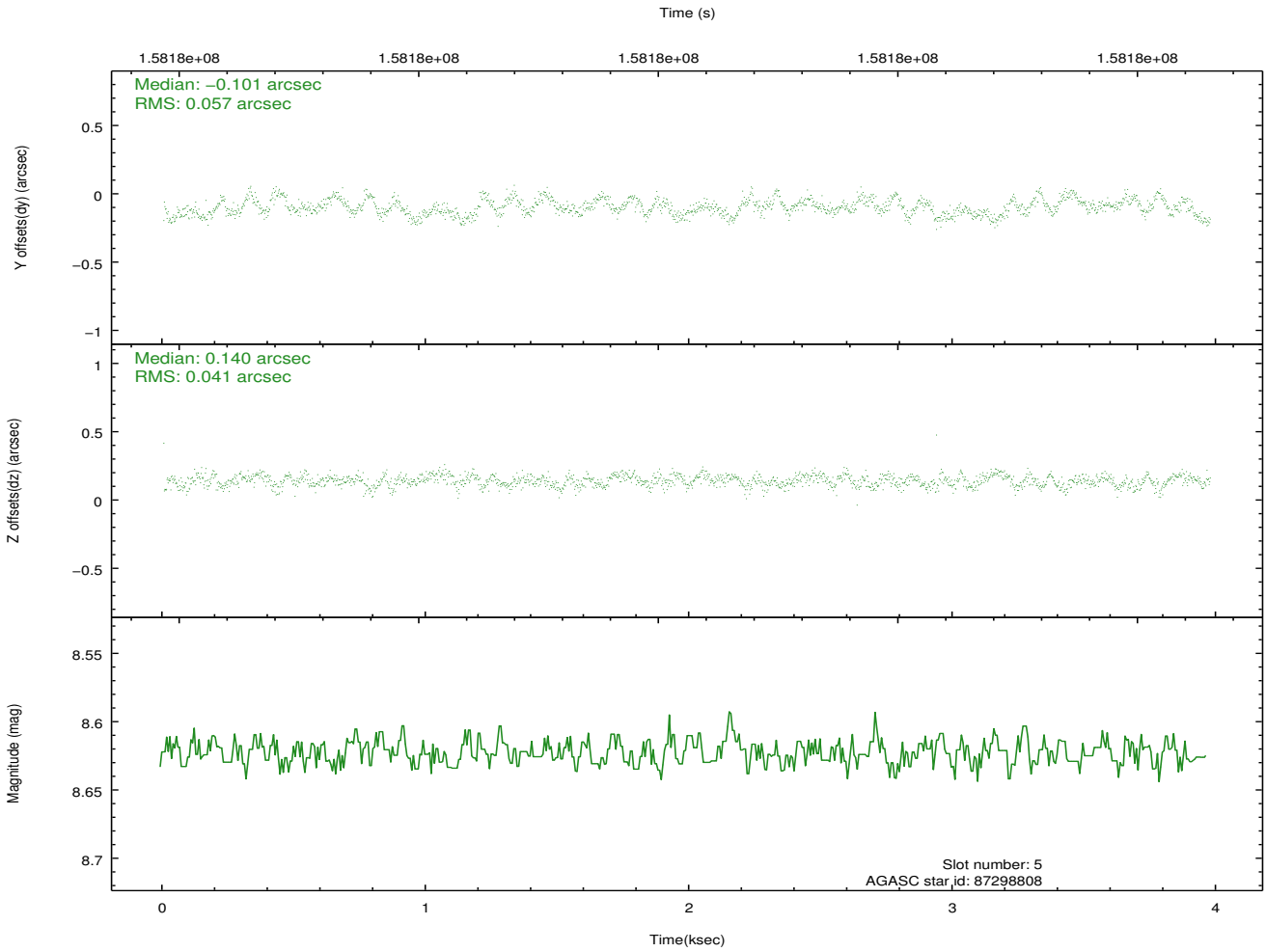
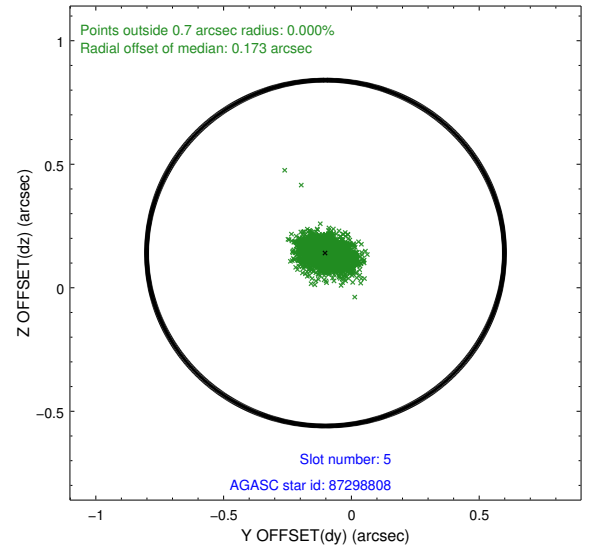
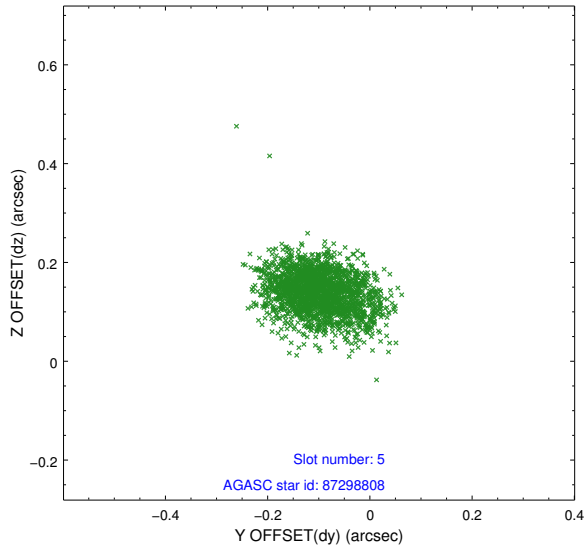
### 2.4.1 Slot 3



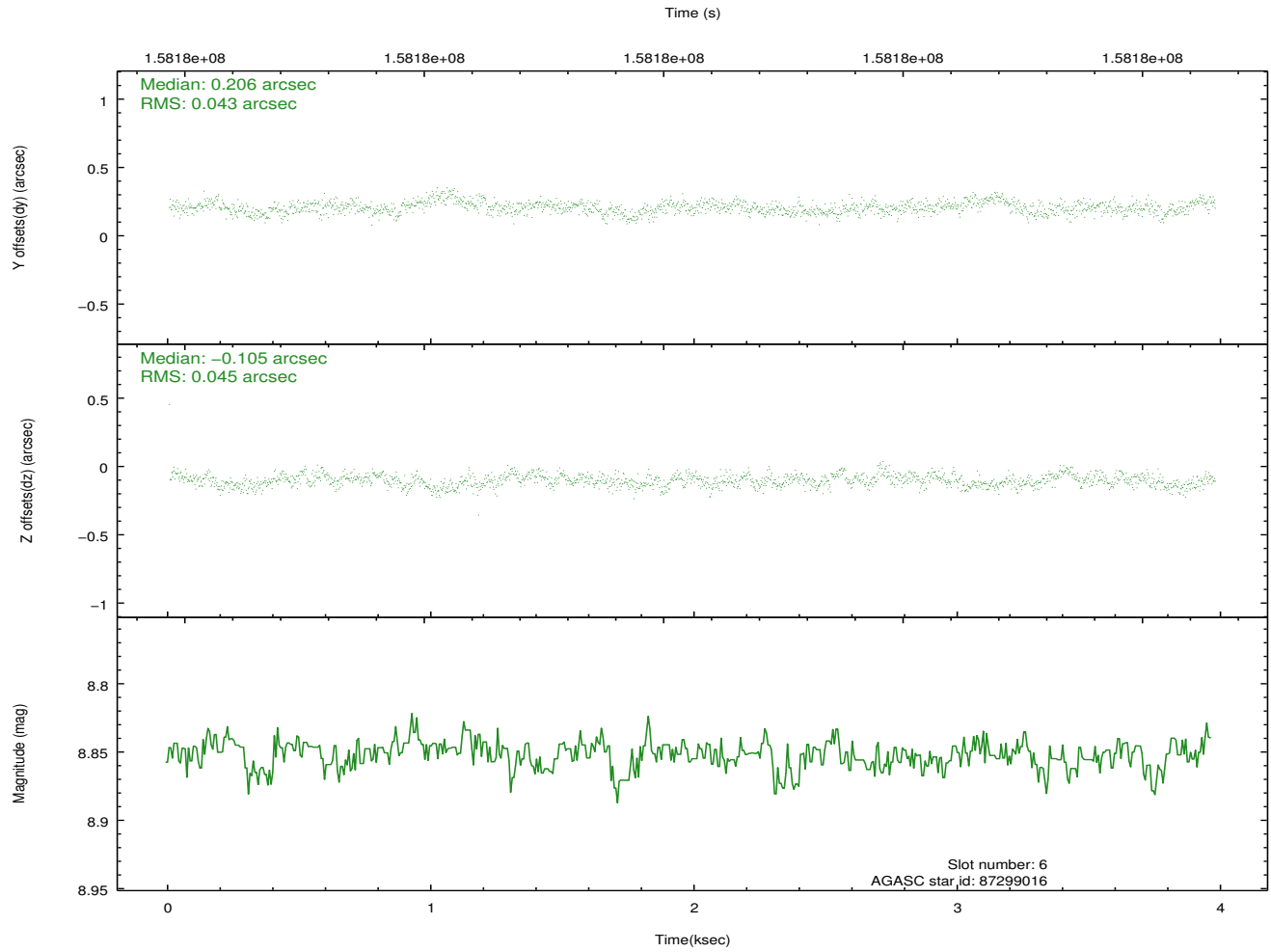
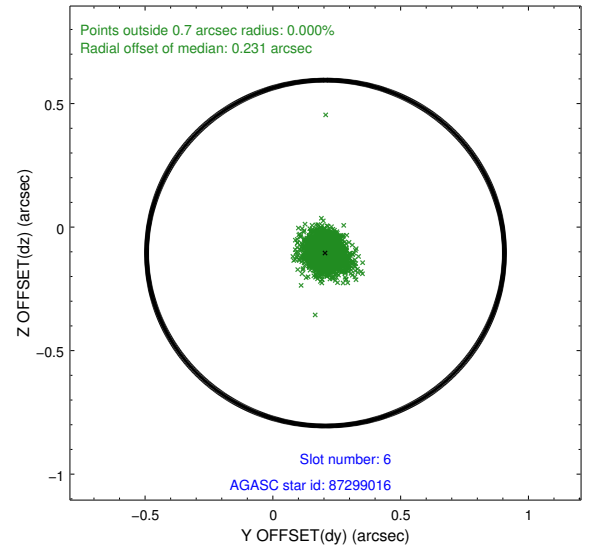
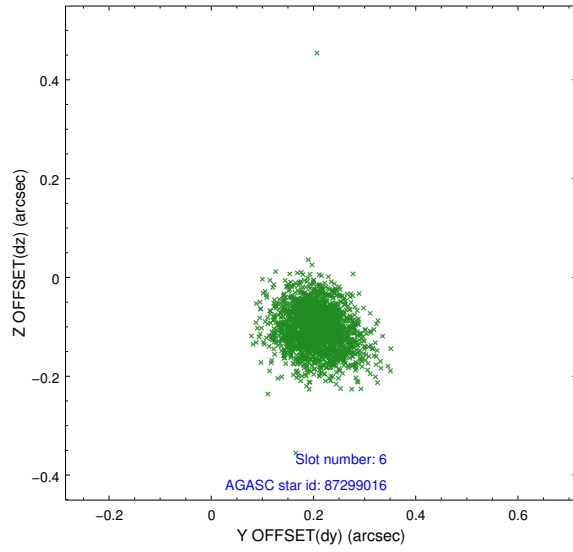
## 2.4.2 Slot 4



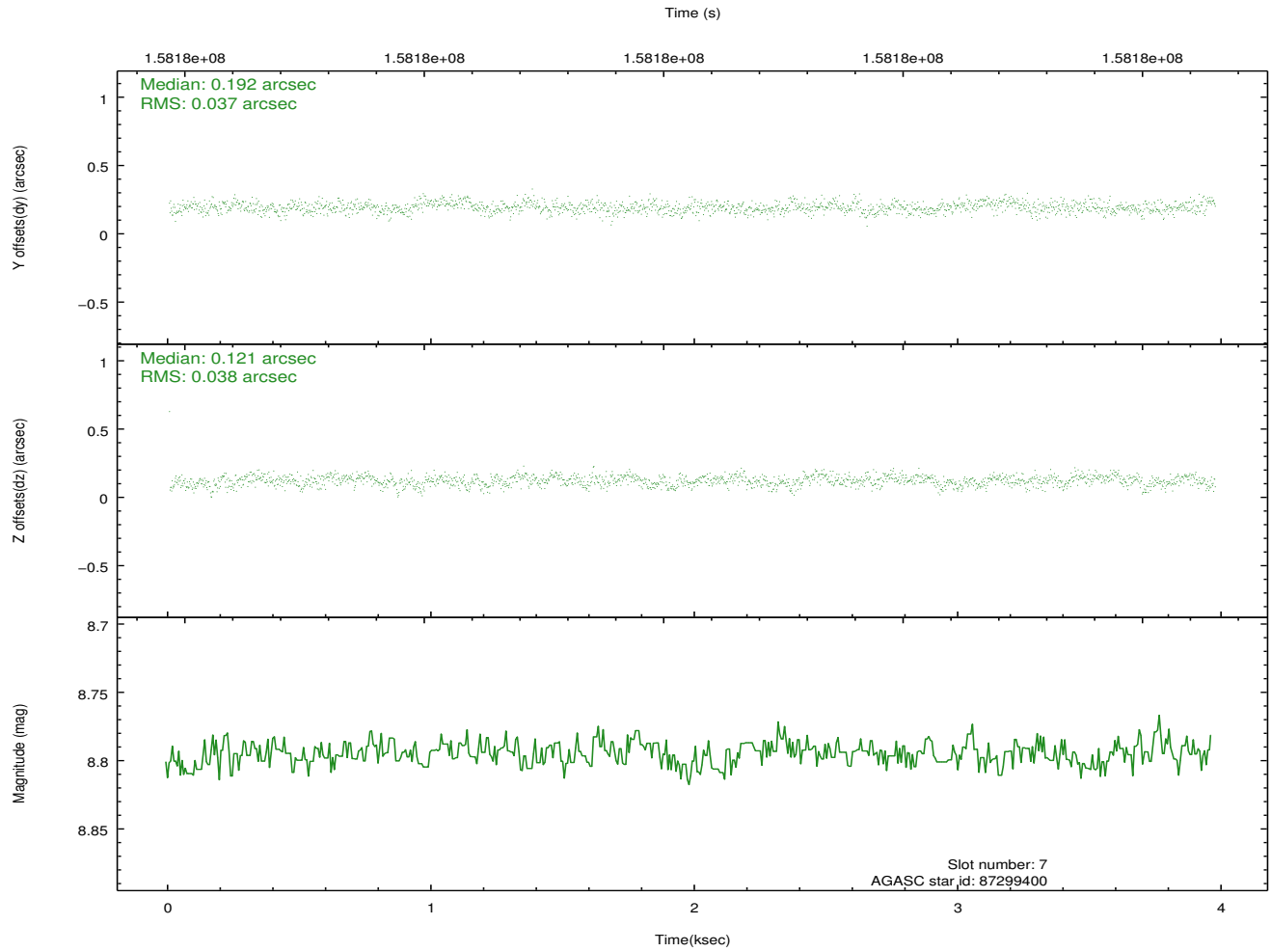
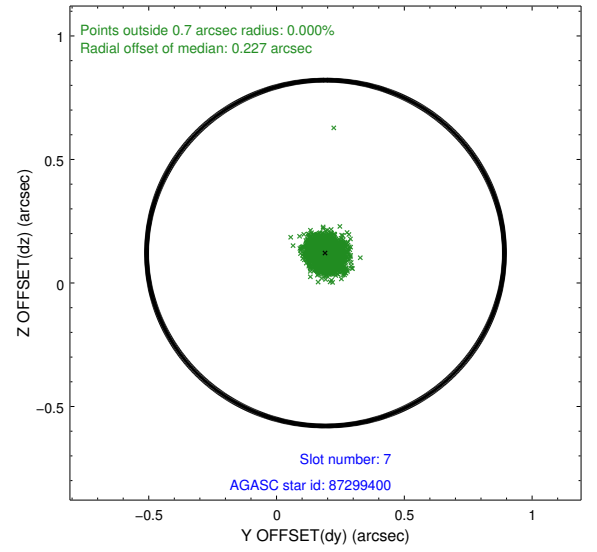
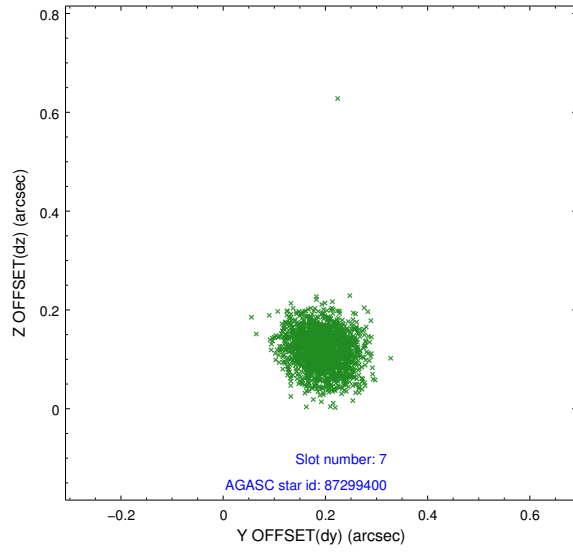
### 2.4.3 Slot 5



## 2.4.4 Slot 6

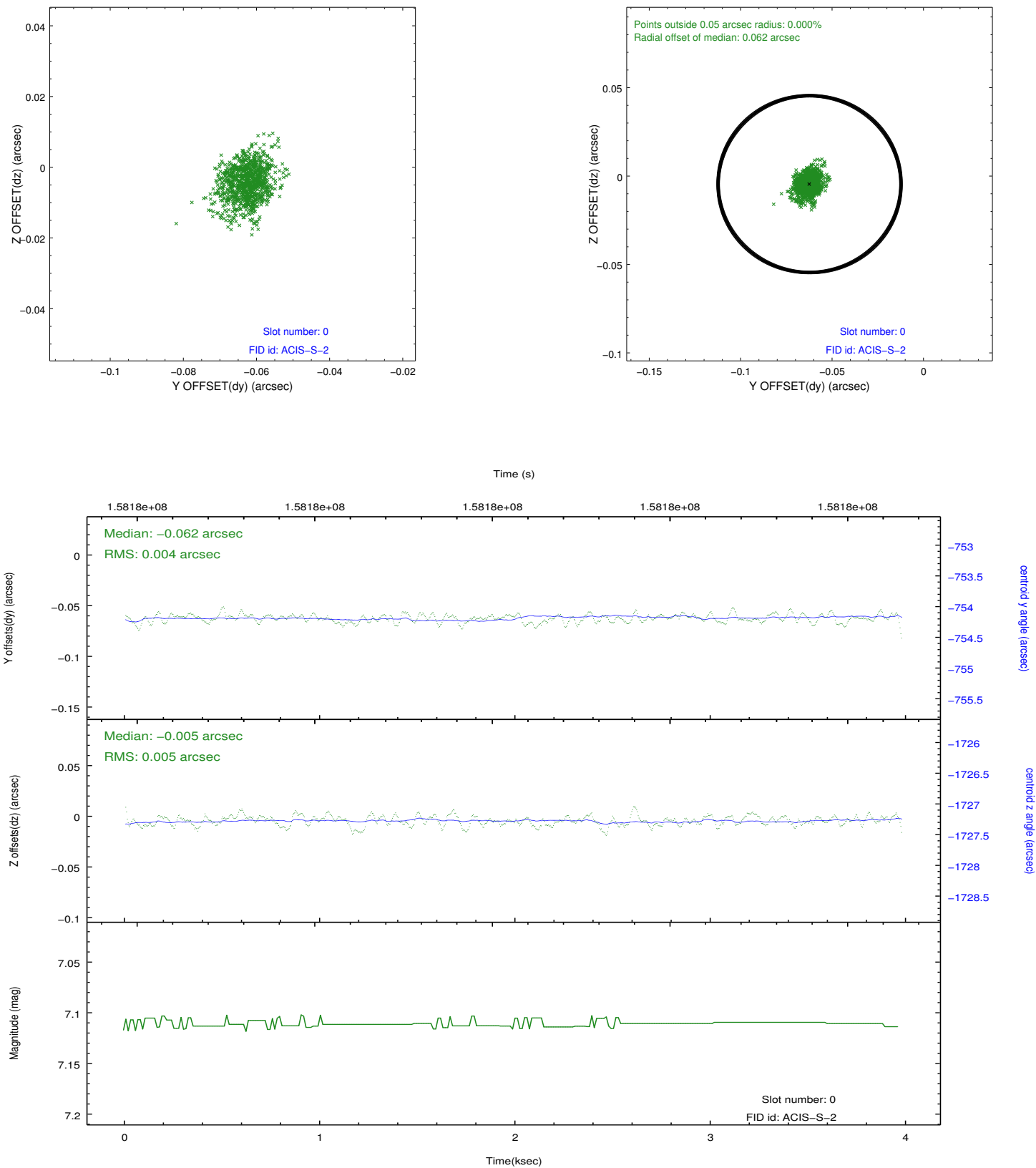


## 2.4.5 Slot 7

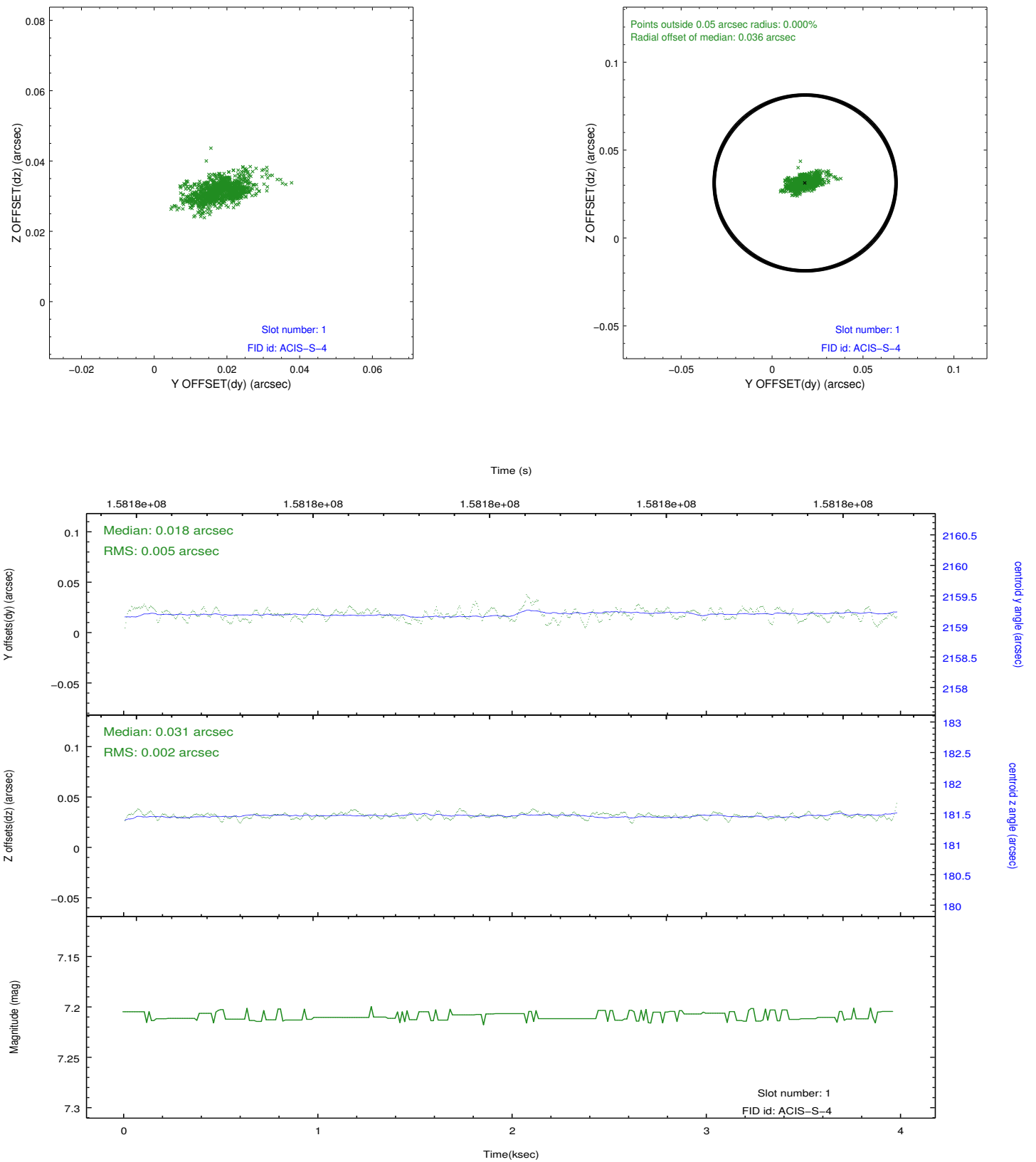


## 2.5 FID Slots

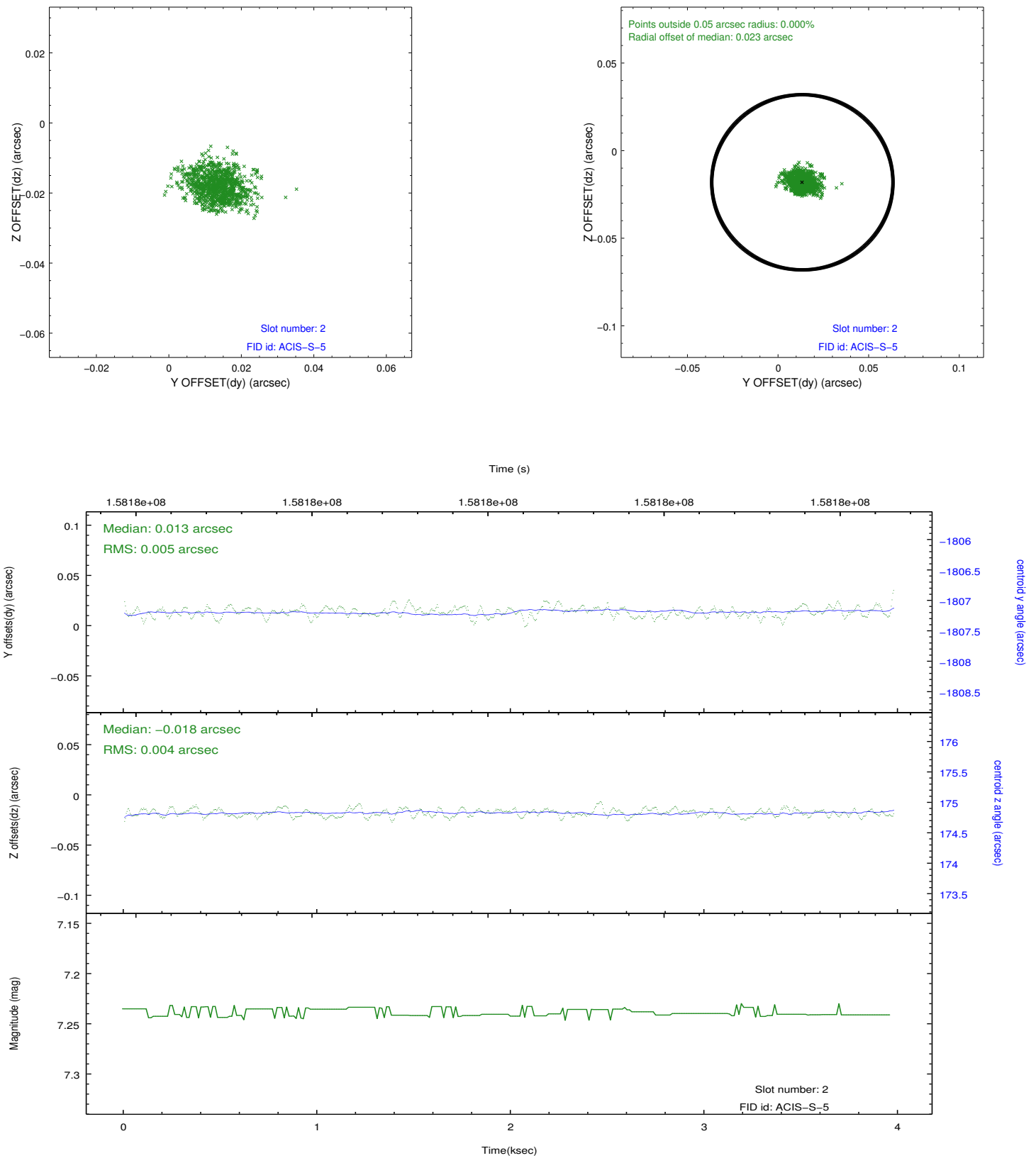
### 2.5.1 Slot 0



## 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)	2012.10.31
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.344

### A.2 Comments