

# V&V Reference Report

## L2 ASCDS Version : 8.4.3

Observation 6827 - L2 Version 2  
Chandra X-Ray Center

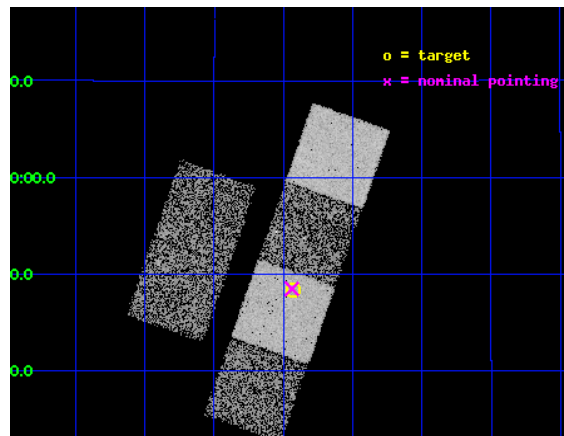
L2 Processing Date : Apr 3 2012

## 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

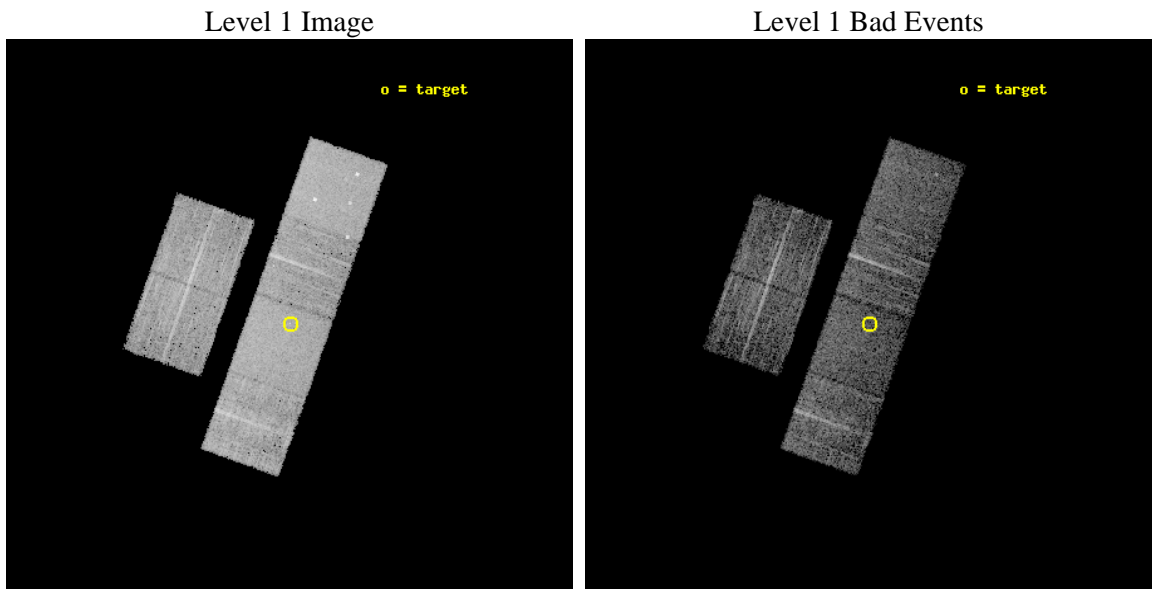
seq_num	701245	Sequence number
obs_id	6827	Observation id
title	Chandra ACIS Snapshot Observations of the Most Luminous Quasars from the Sloan Digital Sky Survey	Proposal title
observer	Professor Gordon Garmire	Principal investigator
object	SDSS J0121+1448	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	20.483333	Observer's specified target RA [deg]
dec_targ	14.806639	Observer's specified target Dec [deg]
ra_nom	20.484582750928	Nominal RA [deg]
dec_nom	14.808320389926	Nominal Dec [deg]
roll_nom	109.4850108911	Nominal Roll [deg]
revision	2	Processing version of data
ontime	3957.844214052	Sum of GTIs [s]
livetime	3907.727607486	Livetime [s]
ontime2	3957.8852540553	Sum of GTIs [s]
ontime3	3957.7210940421	Sum of GTIs [s]
ontime5	3957.8031740487	Sum of GTIs [s]
ontime6	3957.7621340454	Sum of GTIs [s]
ontime7	3957.844214052	Sum of GTIs [s]
ontime8	3957.6800540686	Sum of GTIs [s]
l2events	58766	Number of level 2 events



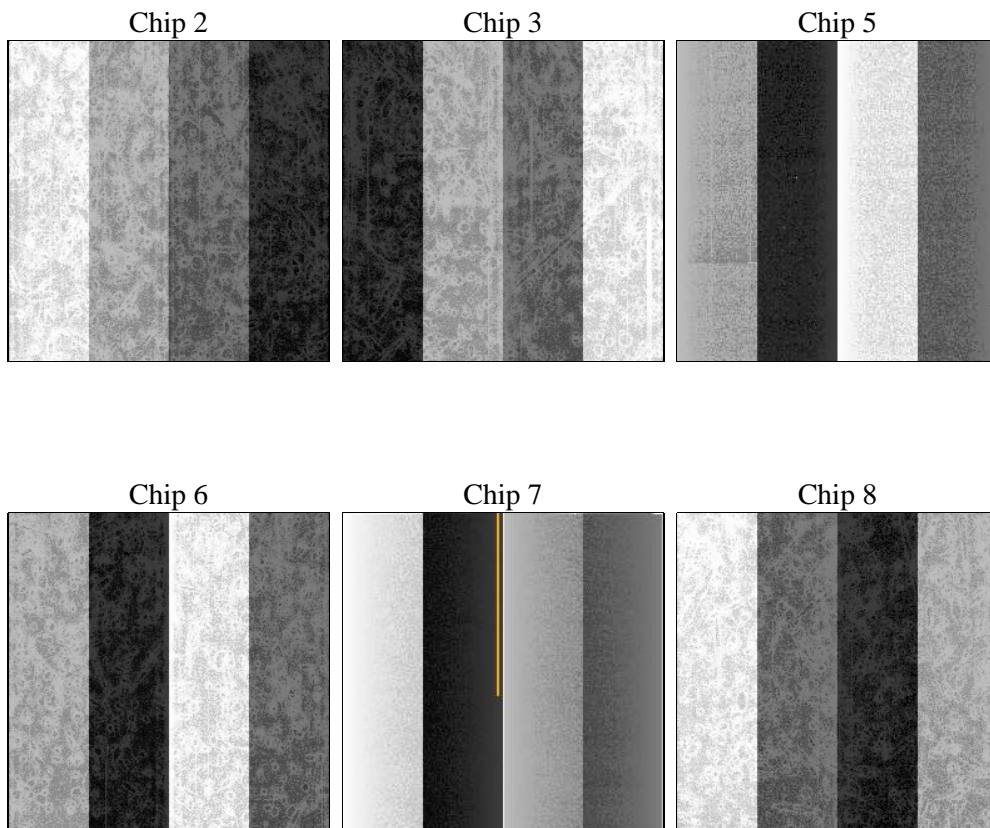
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	4000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	3957.844214052	Sum of GTIs [s]
caldbver	4.4.9	&#160	ontime2	3957.8852540553	Sum of GTIs [s]
date	2012-04-04T00:03:59	Date and time of file creation	ontime3	3957.7210940421	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	3957.8031740487	Sum of GTIs [s]
			ontime6	3957.7621340454	Sum of GTIs [s]
			ontime7	3957.844214052	Sum of GTIs [s]
			ontime8	3957.6800540686	Sum of GTIs [s]
			l1events	259665	Number of level 1 events

### 2.1.4 Events

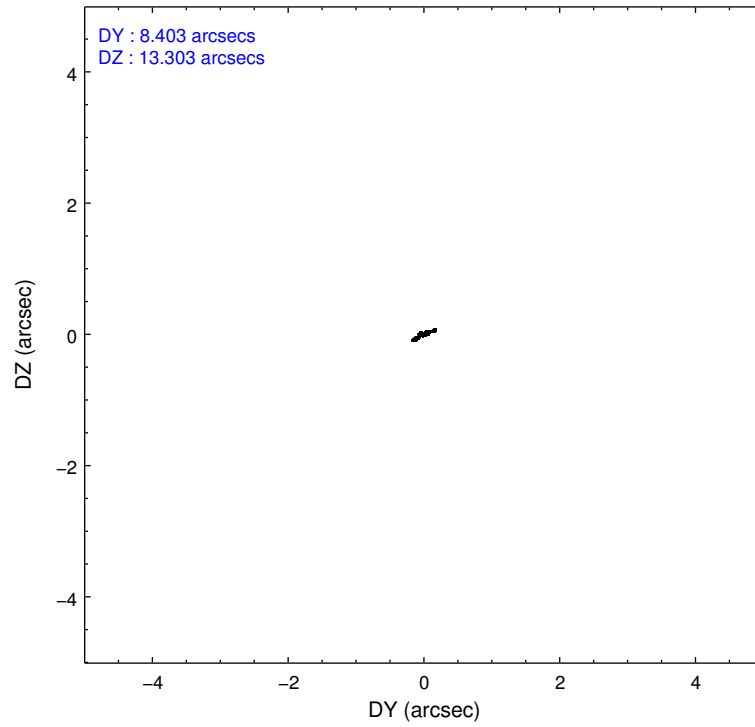
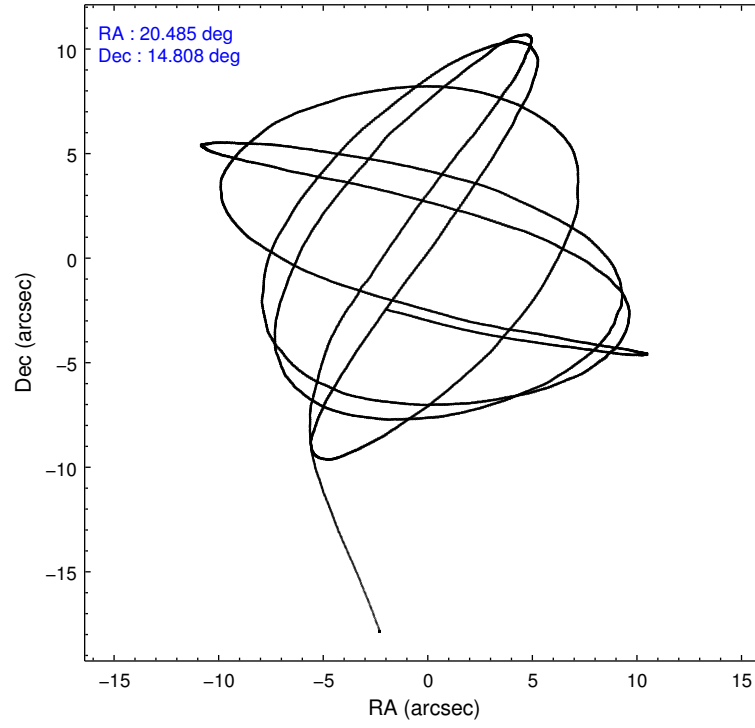
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	37577	35202	55799	37590	48669	44828	grade 0 events	2005	1880	3056	1764	1787	3072
rejected events	33169	30900	29766	33216	28206	34526		5%	5%	5%	4%	3%	6%
rejected %	88%	87%	53%	88%	57%	77%	grade 1 events	35	26	117	18	50	31
								0%	0%	0%	0%	0%	0%
							grade 2 events	891	837	7956	940	4112	2439
								2%	2%	14%	2%	8%	5%
							grade 3 events	401	405	957	425	1830	1106
								1%	1%	1%	1%	3%	2%
							grade 4 events	391	401	911	372	1708	954
								1%	1%	1%	0%	3%	2%
							grade 5 events	1397	1562	3964	1678	4652	2158
								3%	4%	7%	4%	9%	4%
							grade 6 events	721	787	13201	881	11054	2767
								1%	2%	23%	2%	22%	6%
							grade 7 events	31736	29304	25637	31512	23476	32301
								84%	83%	45%	83%	48%	72%

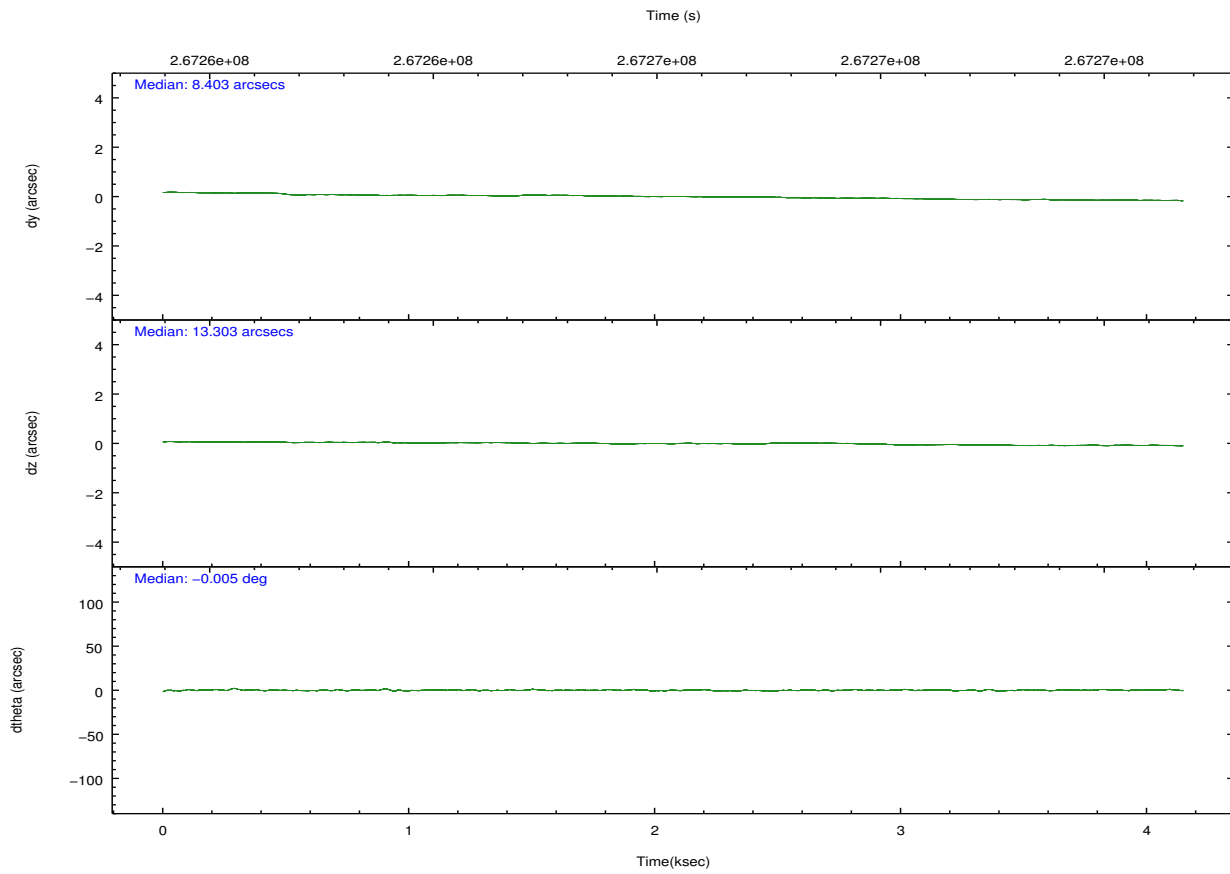
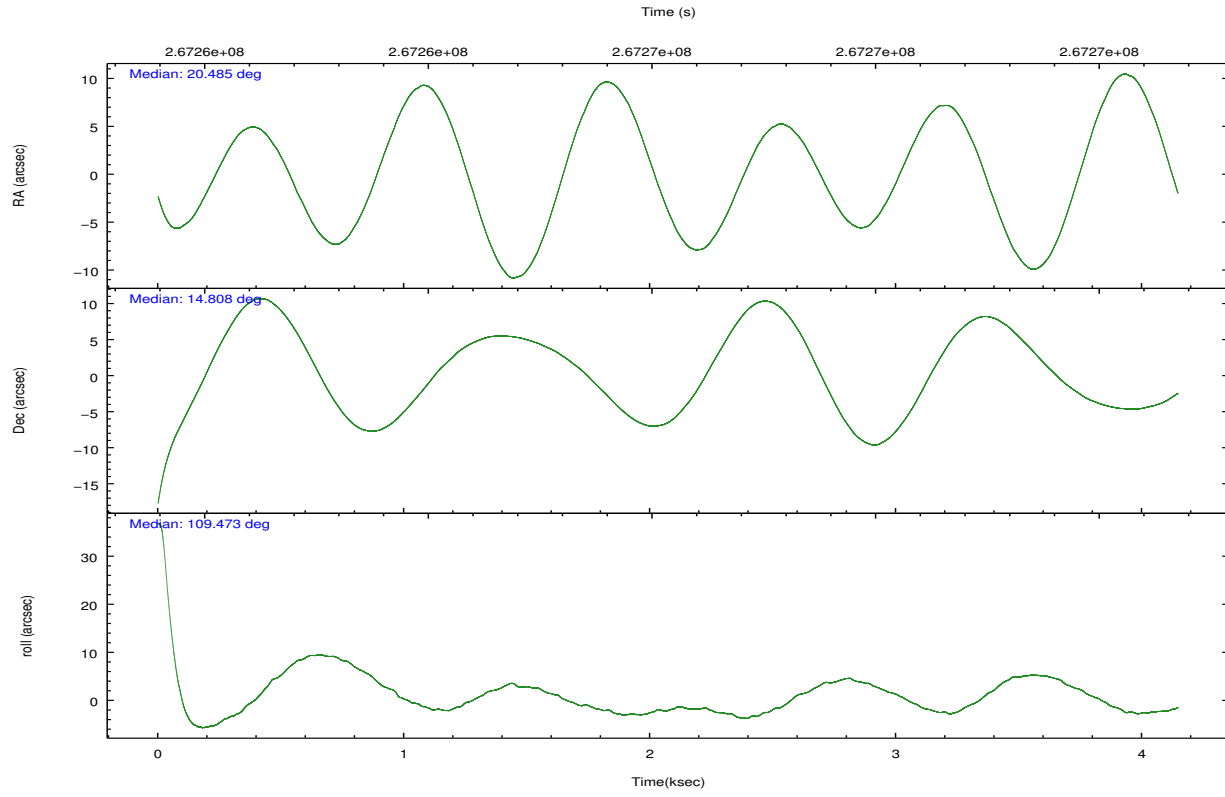


## 2.2 Compared Parameters

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	20.506188	20.48458275092765	Subarray requested	NONE	NONE
[deg] Pointing Dec	14.790964	14.80832038992607	Alternating exposures requested	N	N
[deg] Pointing Roll	109.322736	109.4850108911028	[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	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	267264148.184000	267263183.65492			
Observation start date	2006-06-21T08:01:23	2006-06-21T07:46:23			
[s] Observation end time (MET)	267268148.184000	267269365.43021			
Observation end date	2006-06-21T09:08:03	2006-06-21T09:29:25			
Read mode	TIMED	TIMED			

## 2.3 Aspect



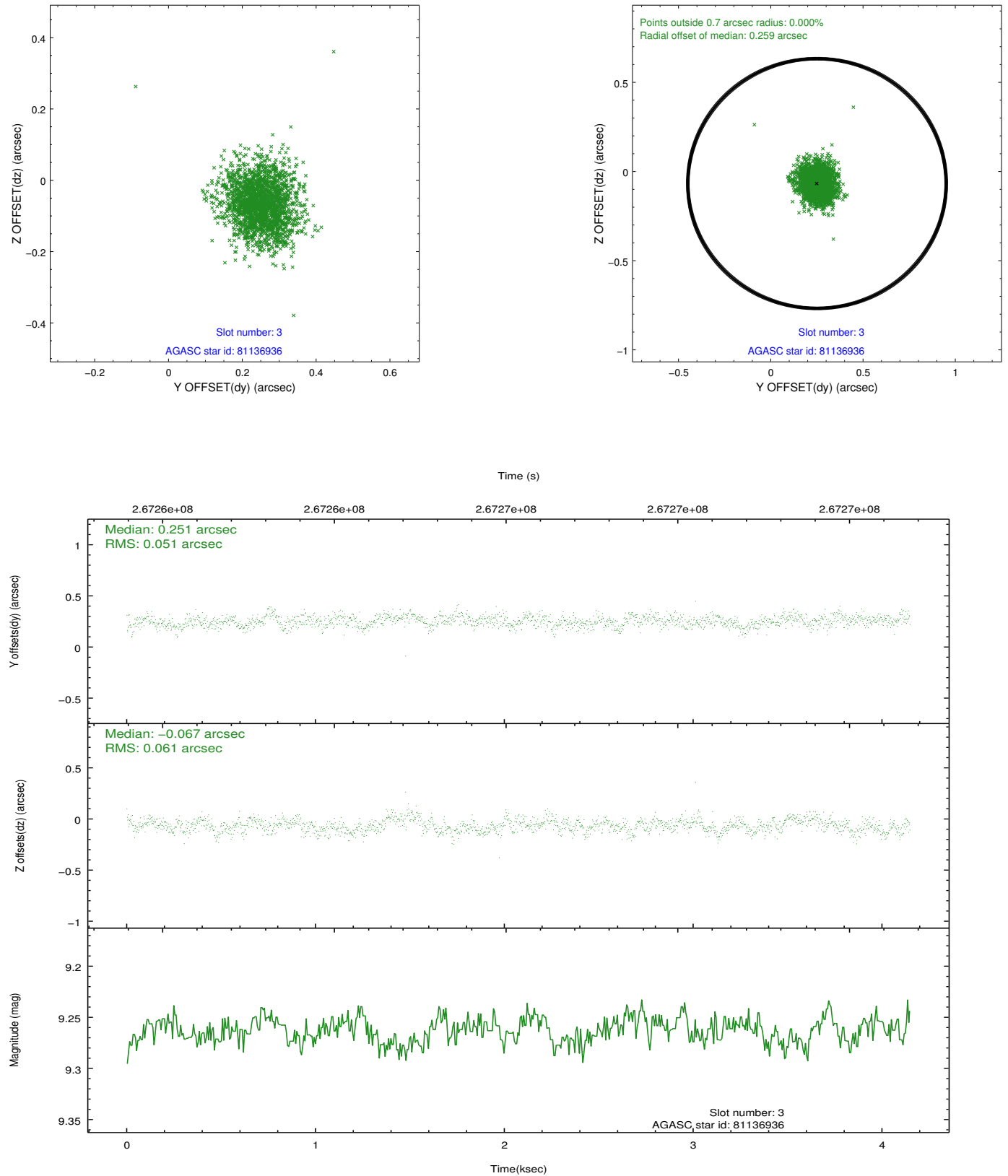


### Slot Statistics

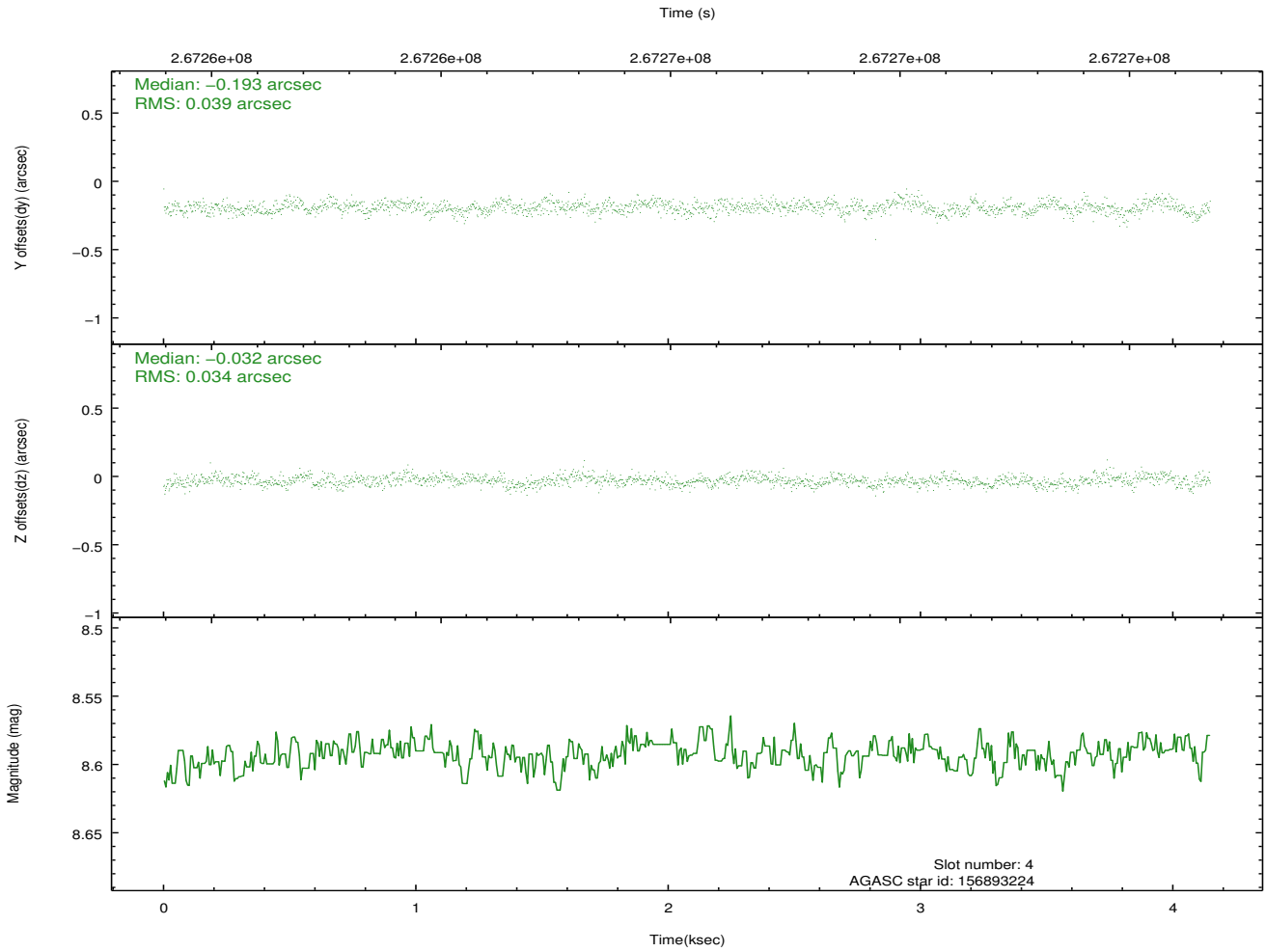
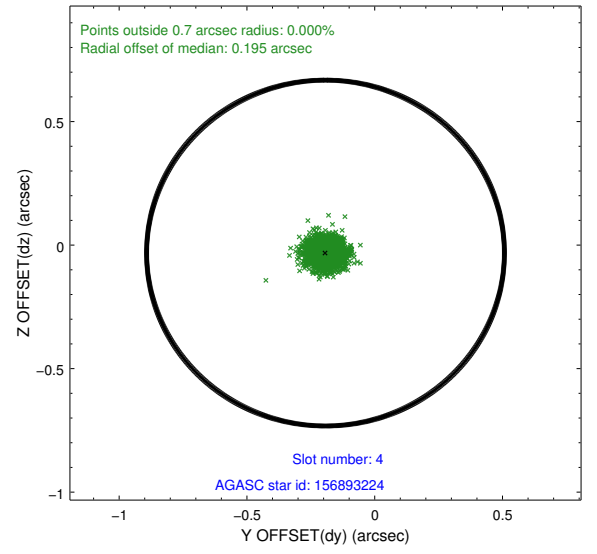
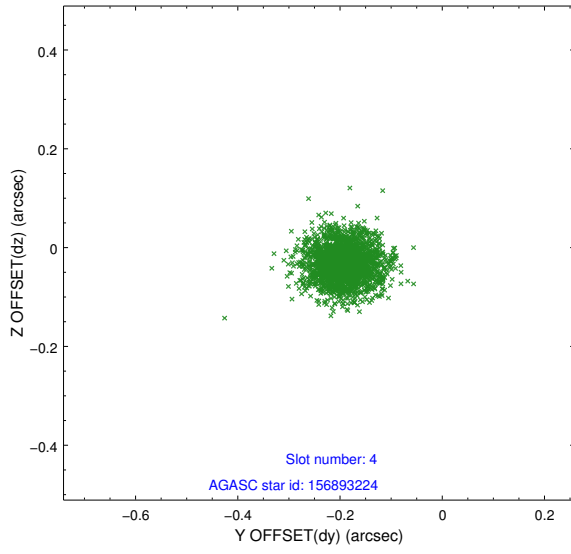
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.19	1012	0.083	-0.037	0.007	0.014	0.000000	0.000000	934.91	-1730.26
1	FID	ACIS-S-5	7.24	1012	-0.124	0.064	0.007	0.013	0.000000	0.000000	-1813.43	165.89
2	FID	ACIS-S-6	7.34	1011	0.020	-0.016	0.008	0.014	0.000000	0.000000	398.82	811.44
3	GUIDE	81136936	9.26	2021	0.251	-0.067	0.083	0.134	20.170416	14.571803	-356.41	1364.42
4	GUIDE	156893224	8.59	2024	-0.193	-0.032	0.054	0.089	20.291131	15.316313	2032.29	79.84
5	GUIDE	156894296	8.11	2023	0.100	0.124	0.061	0.097	20.498838	15.177117	1321.55	-437.02
6	GUIDE	156896112	8.81	2024	-0.075	0.405	0.074	0.120	21.004026	15.305297	1178.66	-2244.07
7	GUIDE	81137976	8.22	2023	-0.085	-0.423	0.078	0.126	19.853031	14.793038	763.06	2140.49

## 2.4 Star Slots

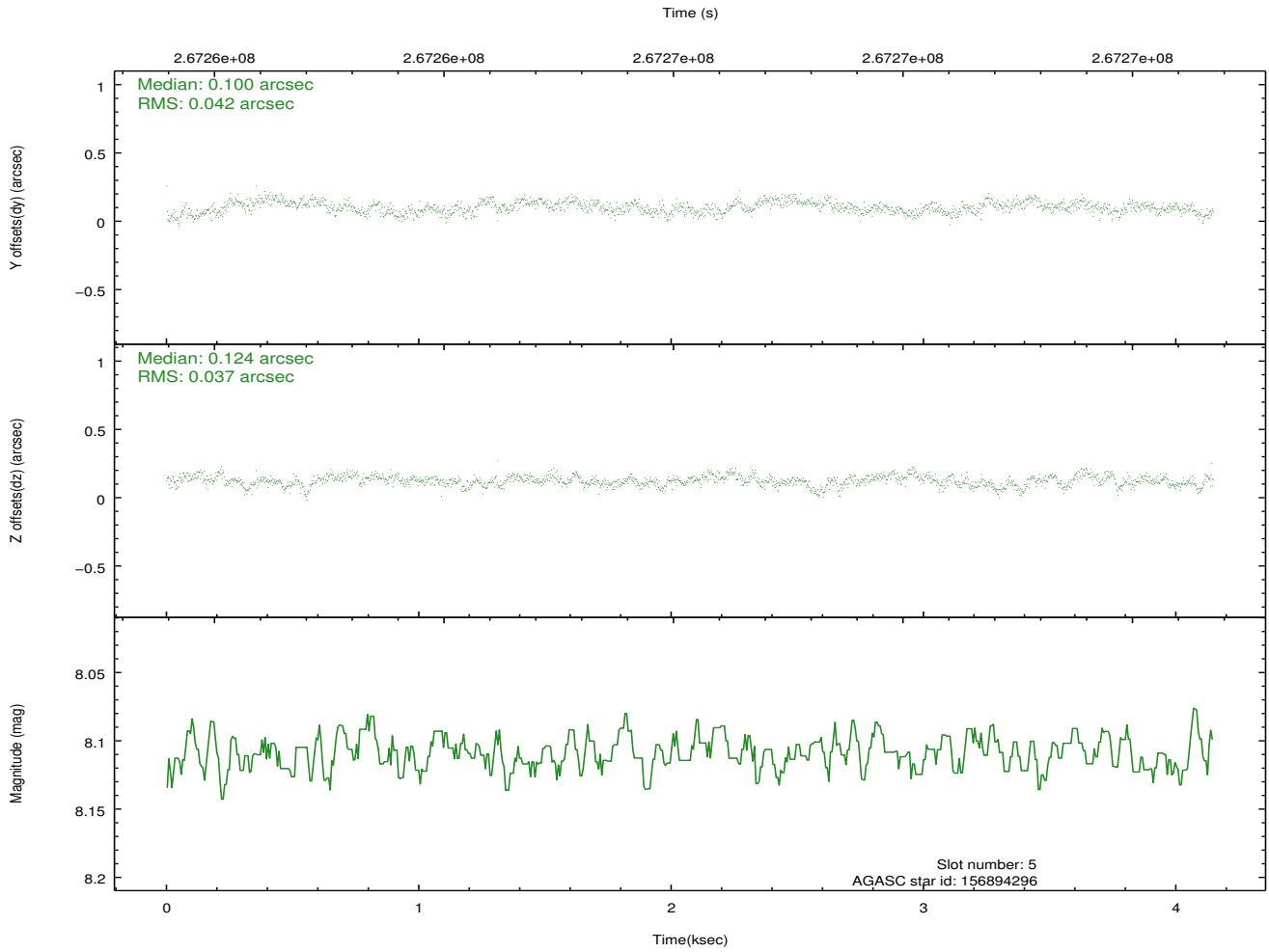
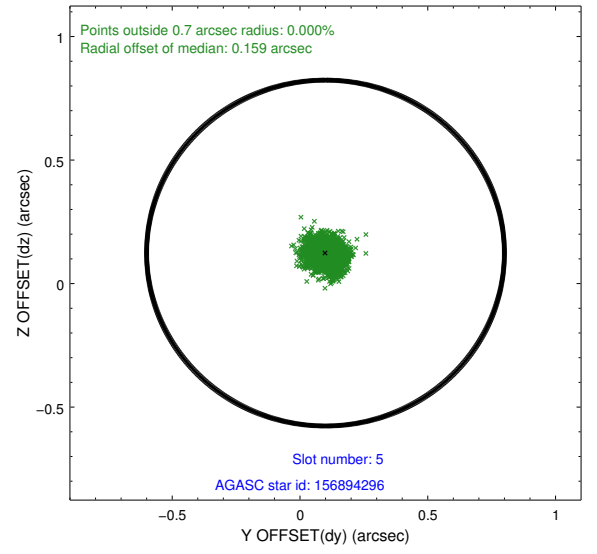
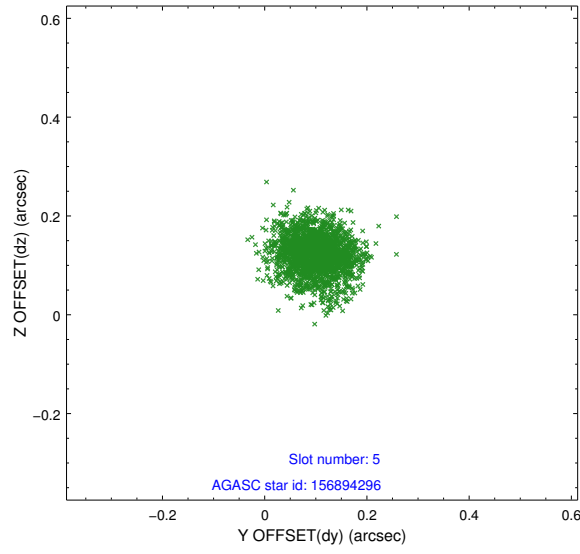
### 2.4.1 Slot 3



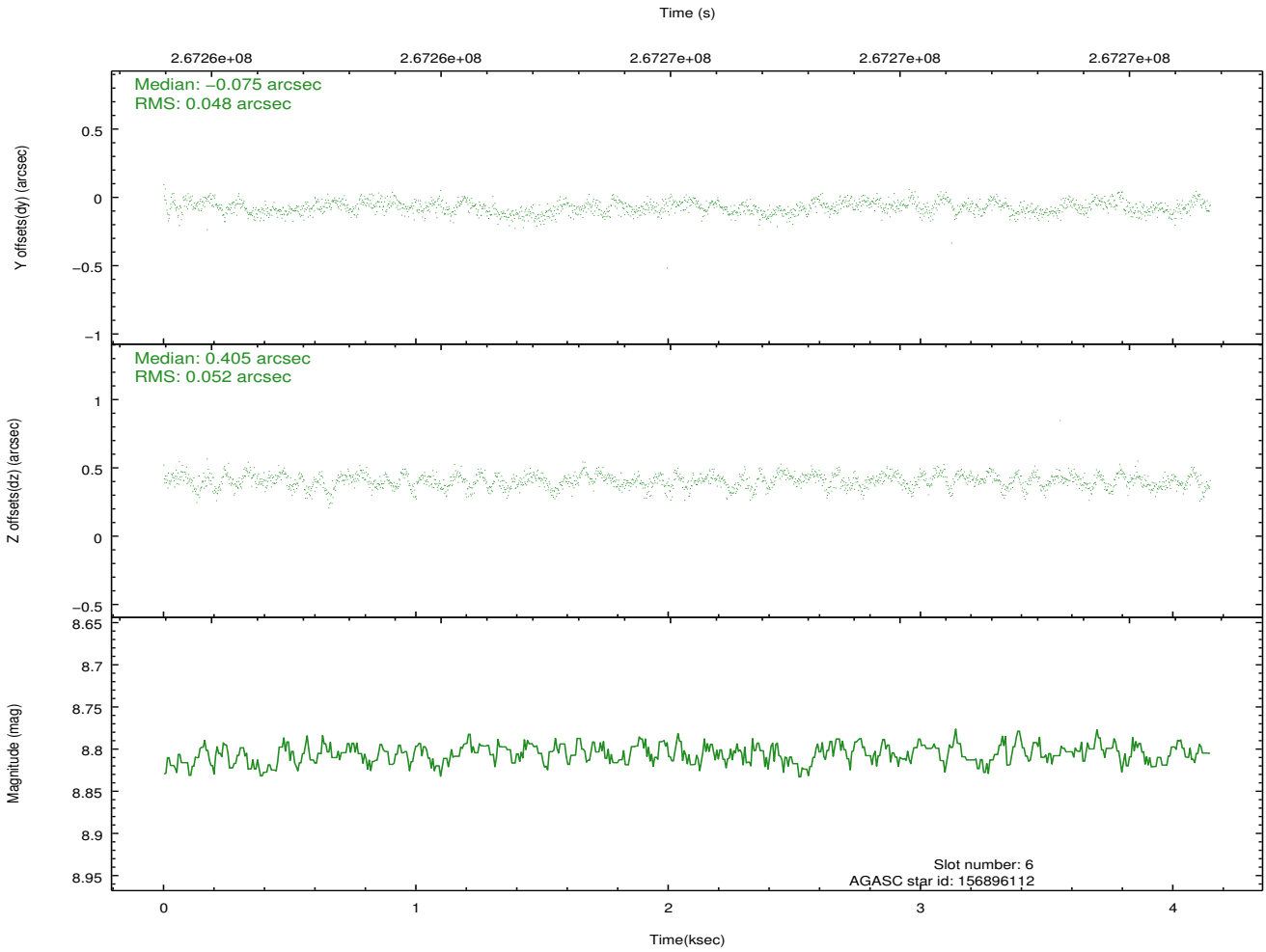
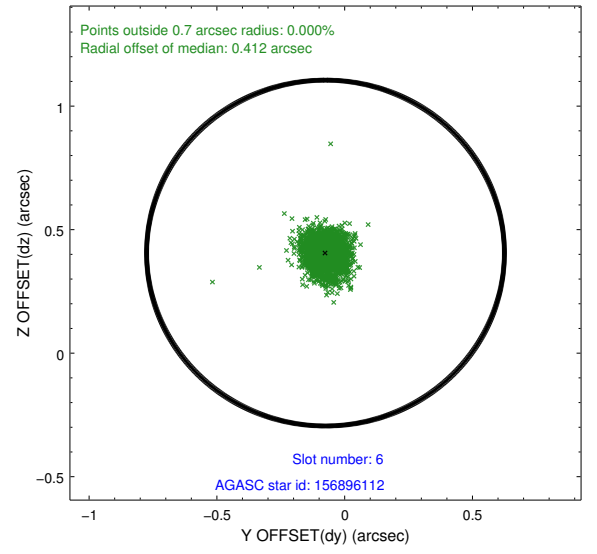
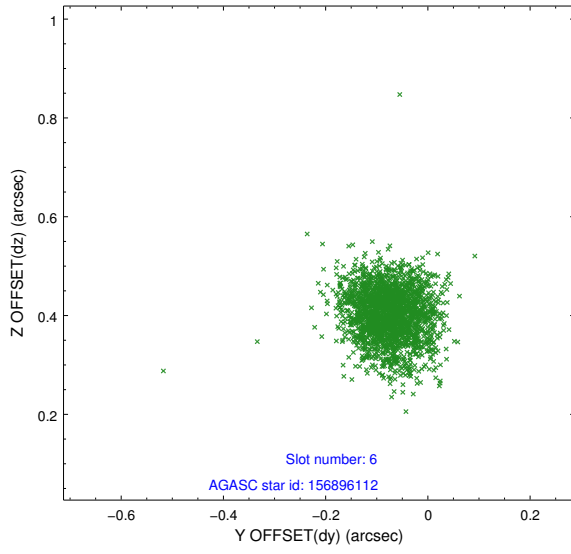
## 2.4.2 Slot 4



### 2.4.3 Slot 5

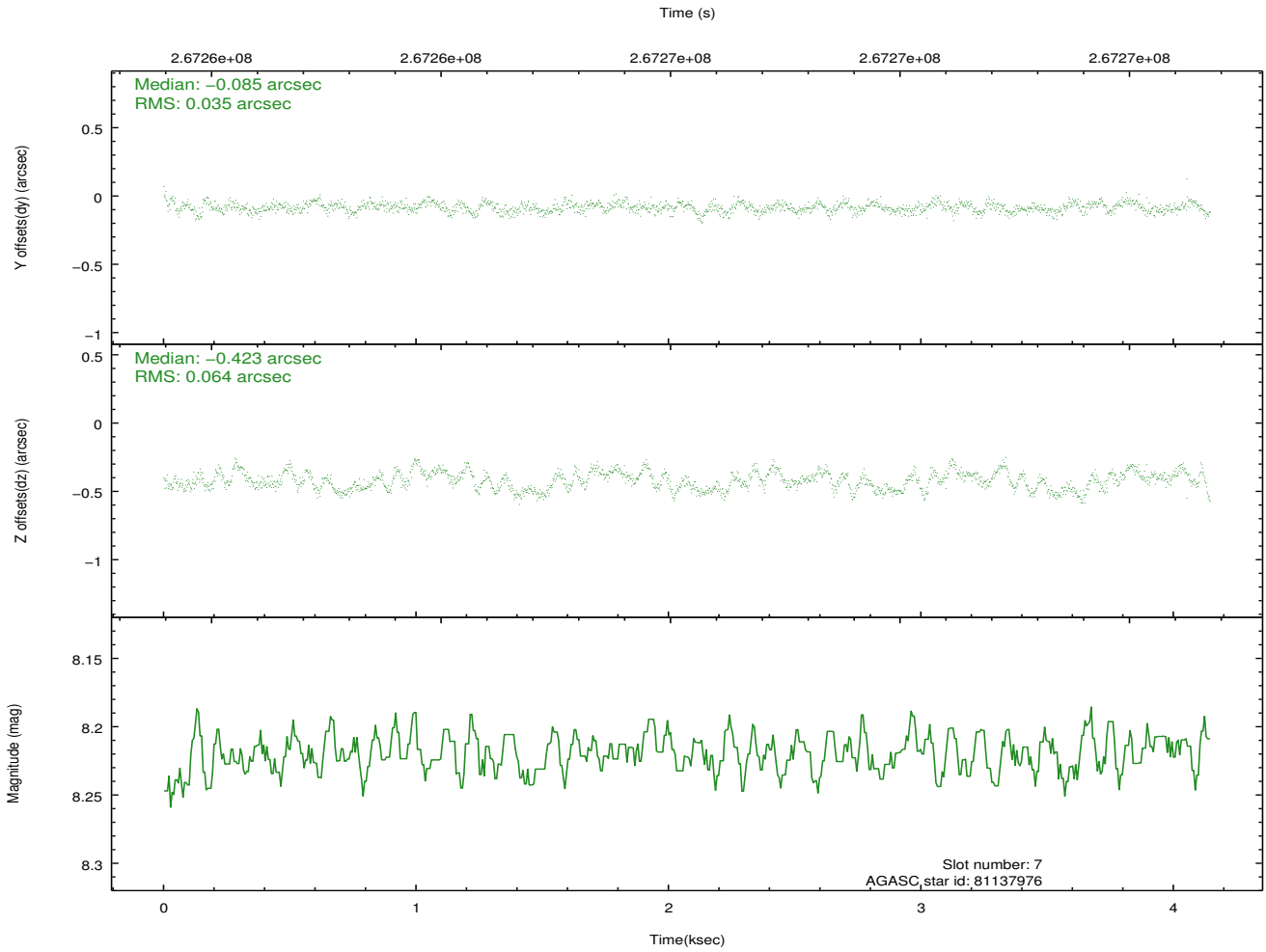
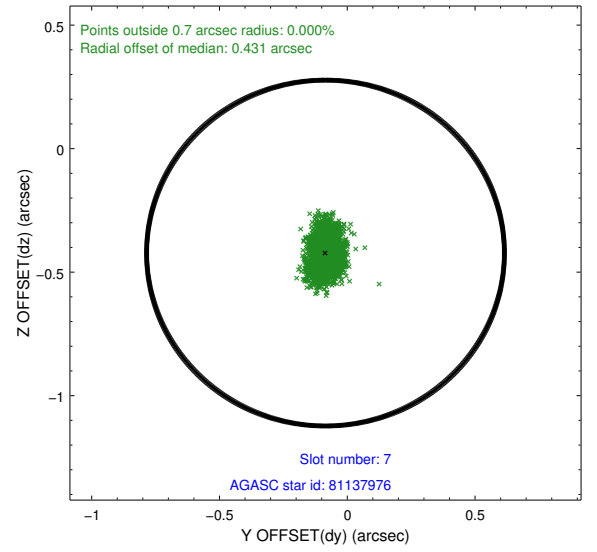
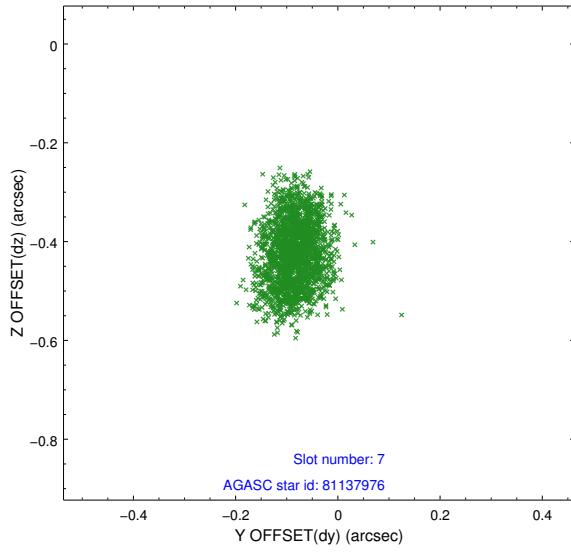


## 2.4.4 Slot 6



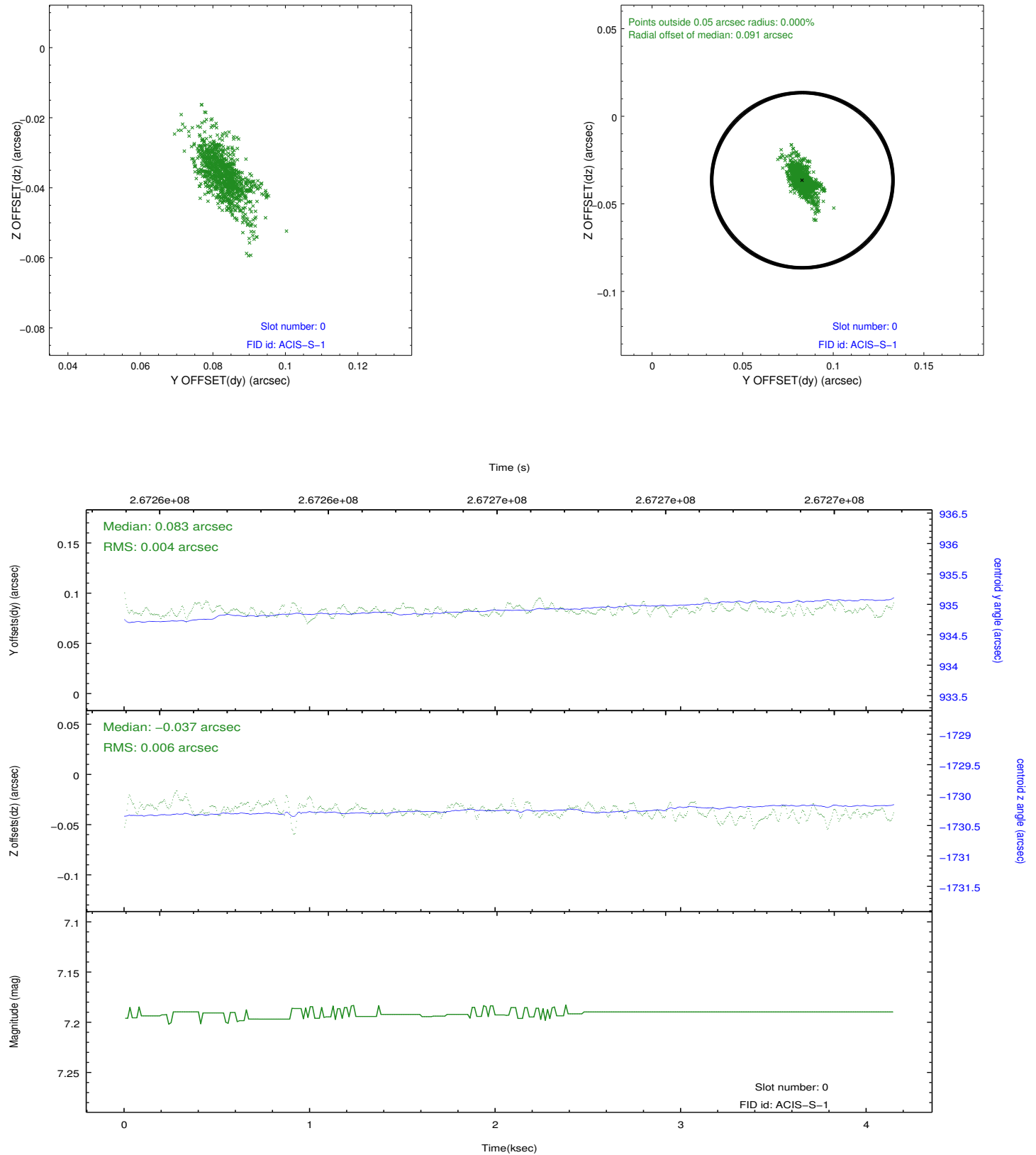


## 2.4.5 Slot 7

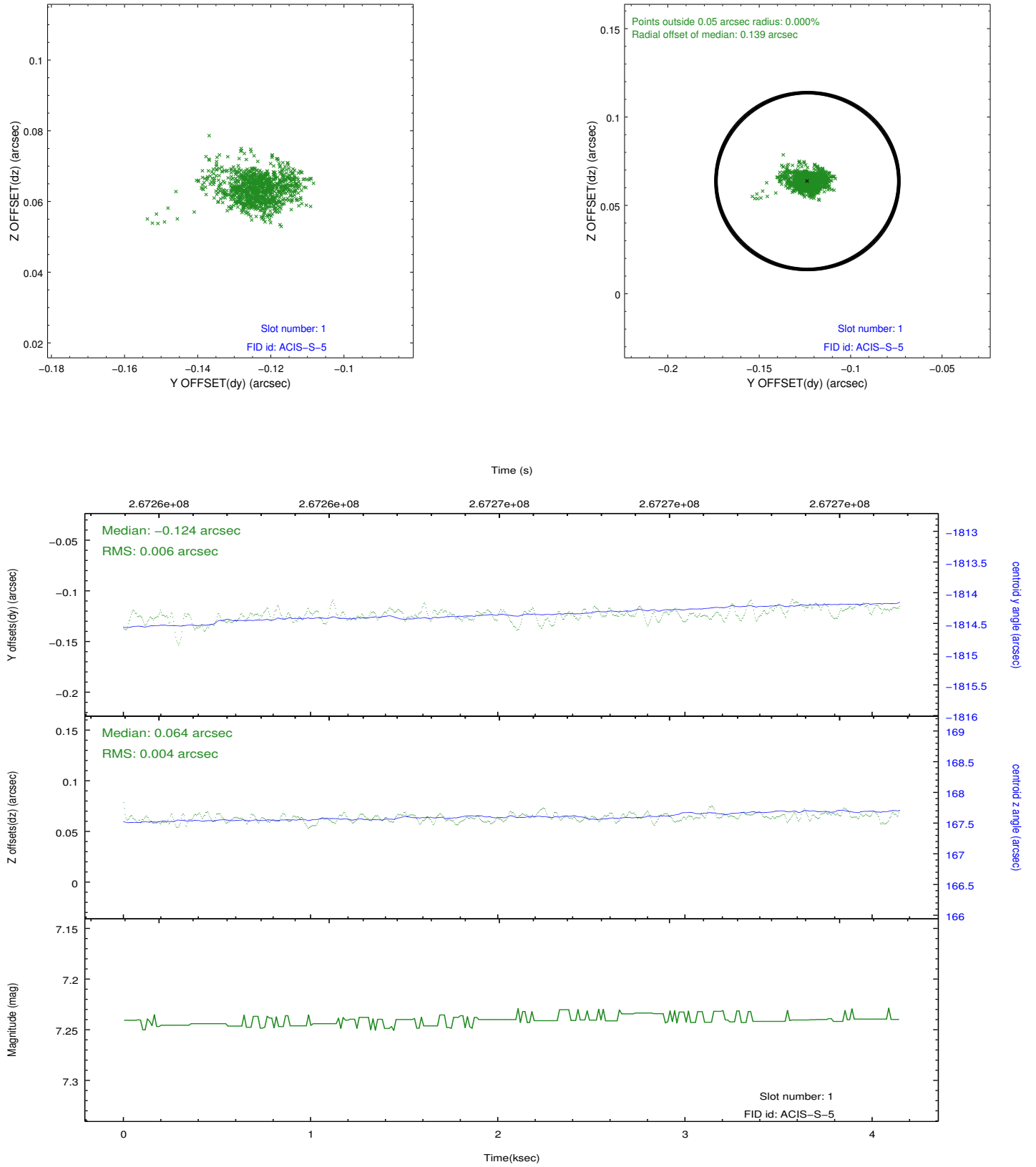


## 2.5 FID Slots

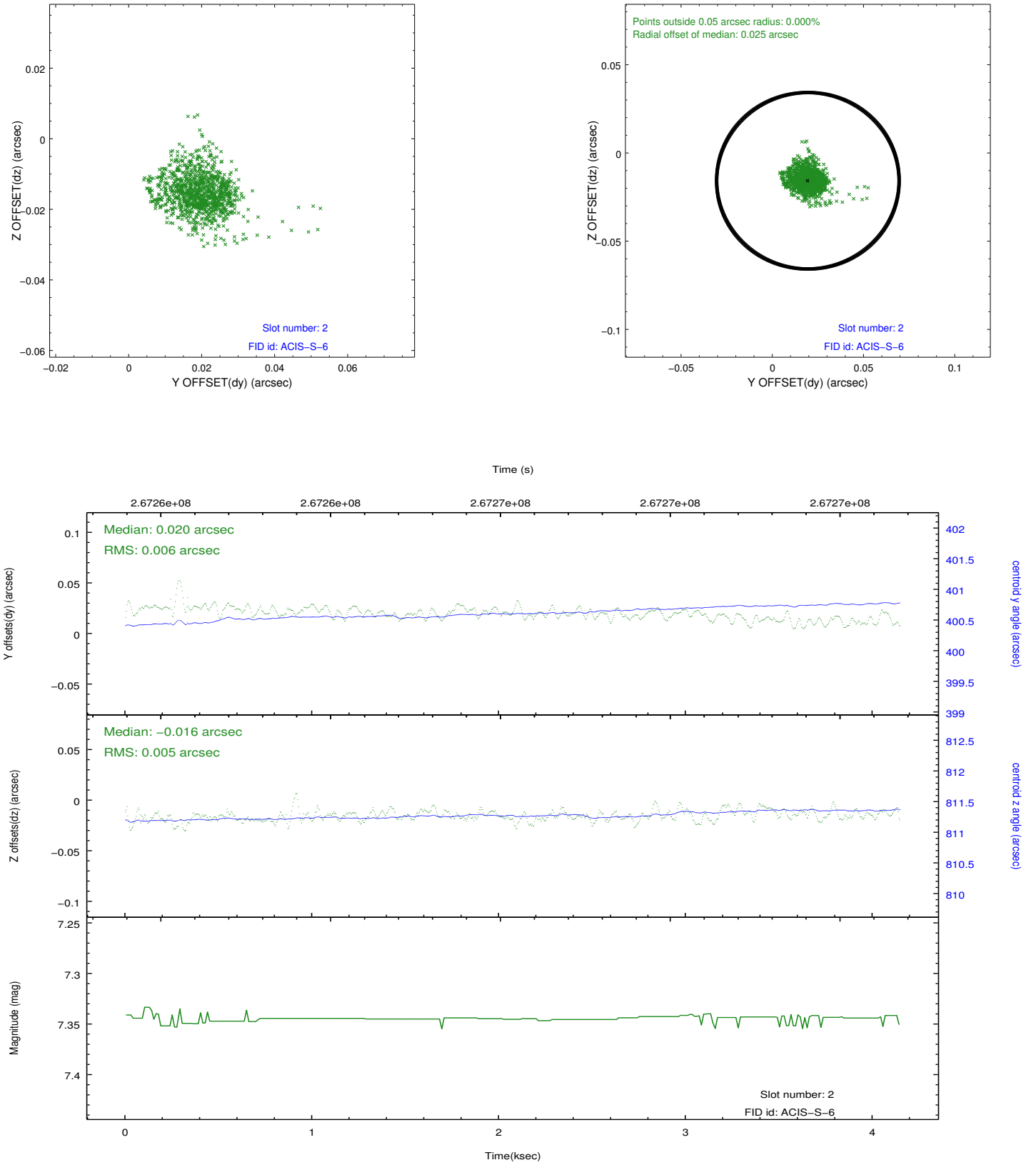
### 2.5.1 Slot 0



## 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)	2012.04.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.95839998

### A.2 Comments