

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 3384 - L2 Version 3  
Chandra X-Ray Center

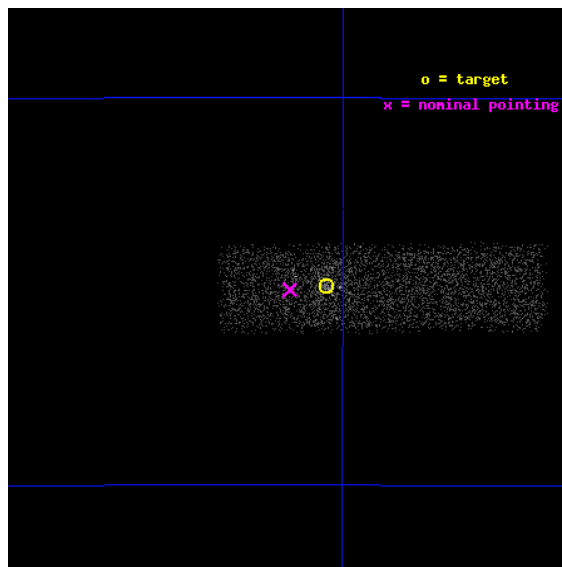
L2 Processing Date : Oct 14 2012

## 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

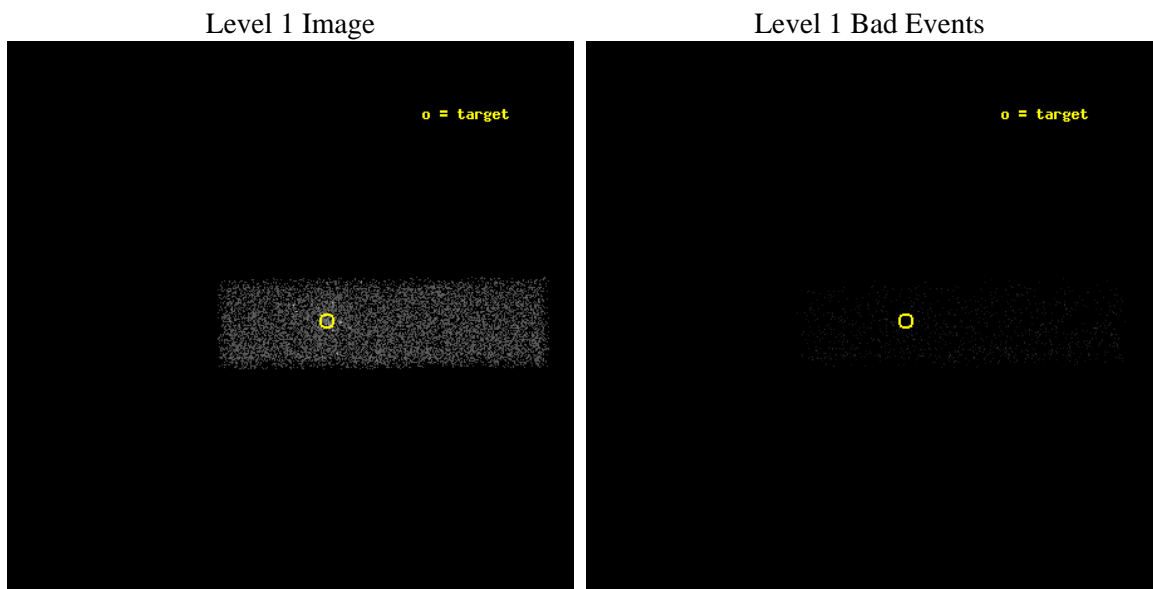
seq_num	400215	Sequence number
obs_id	3384	Observation id
title	COMPLETE COMPACT OBJECT AND BINARY SURVEY OF 47TUC	Proposal title
observer	Professor Johnathan Grindlay	Principal investigator
object	47 TUCANAE	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	6.024167	Observer's specified target RA [deg]
dec_targ	-72.080889	Observer's specified target Dec [deg]
ra_nom	6.0751540173349	Nominal RA [deg]
dec_nom	-72.082633781057	Nominal Dec [deg]
roll_nom	359.62857457781	Nominal Roll [deg]
revision	3	Processing version of data
ontime	5579.2000831366	Sum of GTIs [s]
liveltime	5306.9533749991	Livetime [s]
ontime7	5579.2000831366	Sum of GTIs [s]
l2events	7917	Number of level 2 events



## 2 OBI

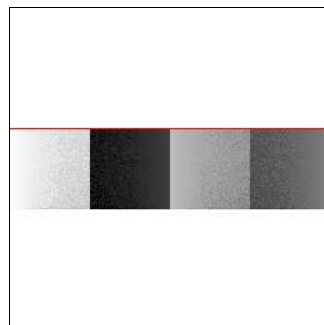
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	4750.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	5579.2000831366	Sum of GTIs [s]
caldsver	4.5.2	&#160	ontime7	5579.2000831366	Sum of GTIs [s]
date	2012-10-14T20:27:58	Date and time of file creation	l1events	14748	Number of level 1 events
revision	3	Processing version of data			

### 2.1.4 Events

	<b>ccd 7</b>
level 1 events	14748
rejected events	6664
rejected %	45%

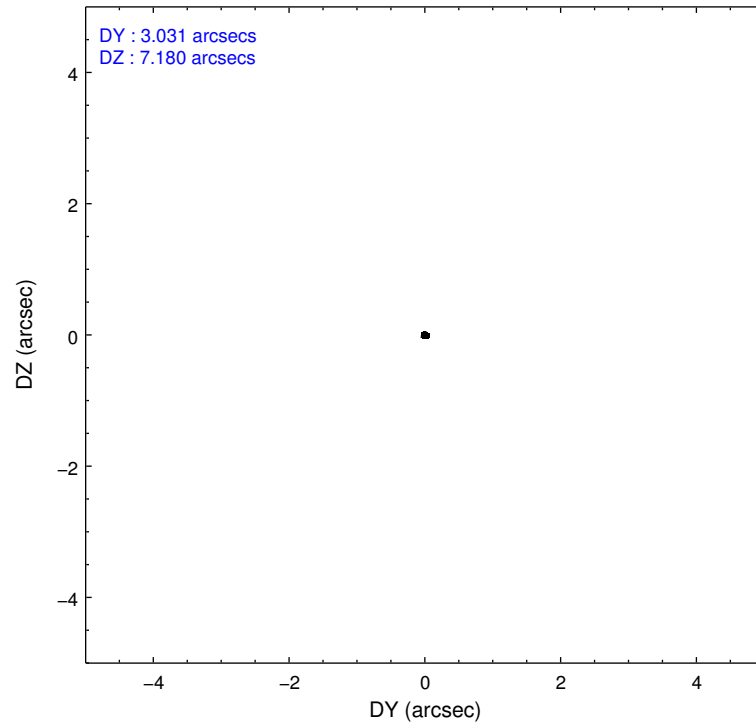
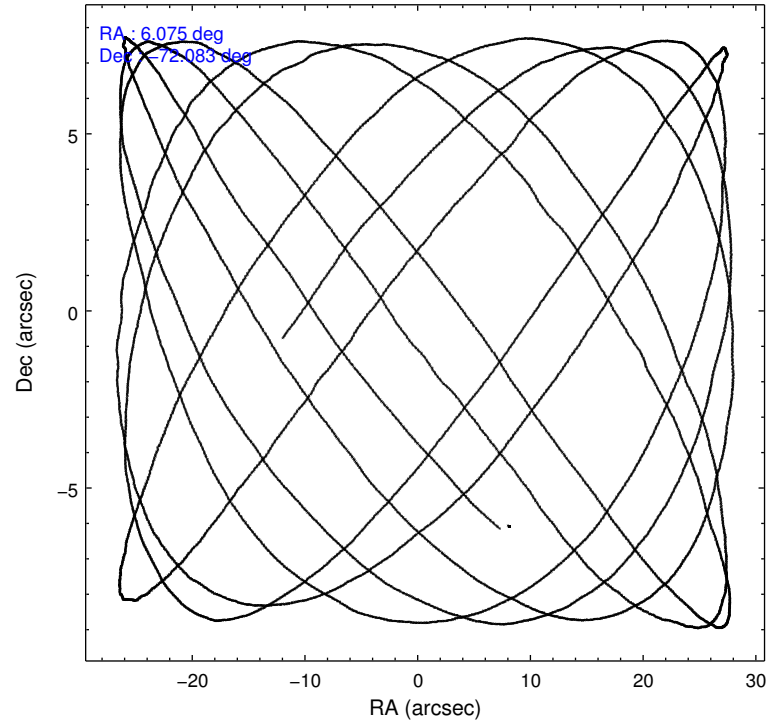
	<b>ccd 7</b>
grade 0 events	1565
	10%
grade 1 events	24
	0%
grade 2 events	1735
	11%
grade 3 events	930
	6%
grade 4 events	898
	6%
grade 5 events	1213
	8%
grade 6 events	2956
	20%
grade 7 events	5427
	36%

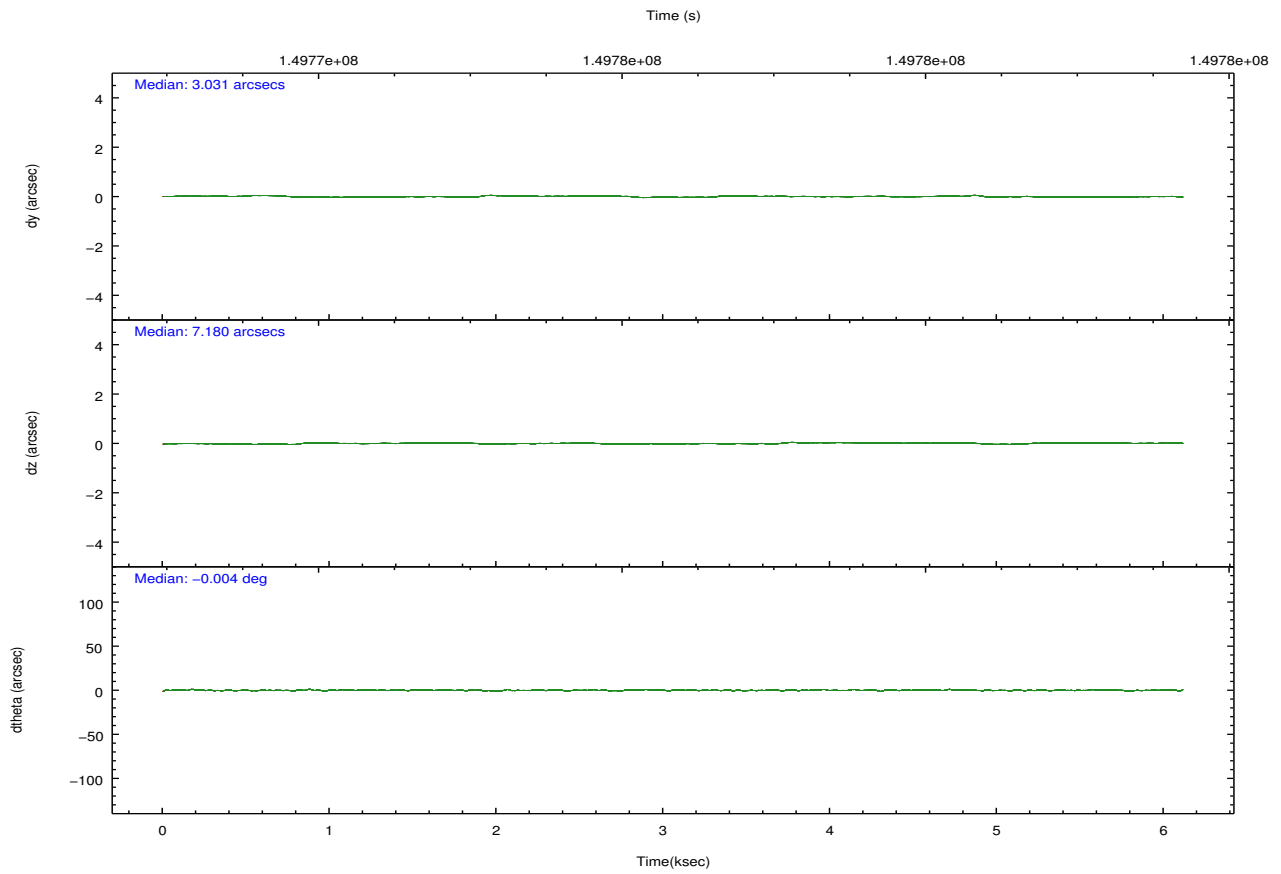
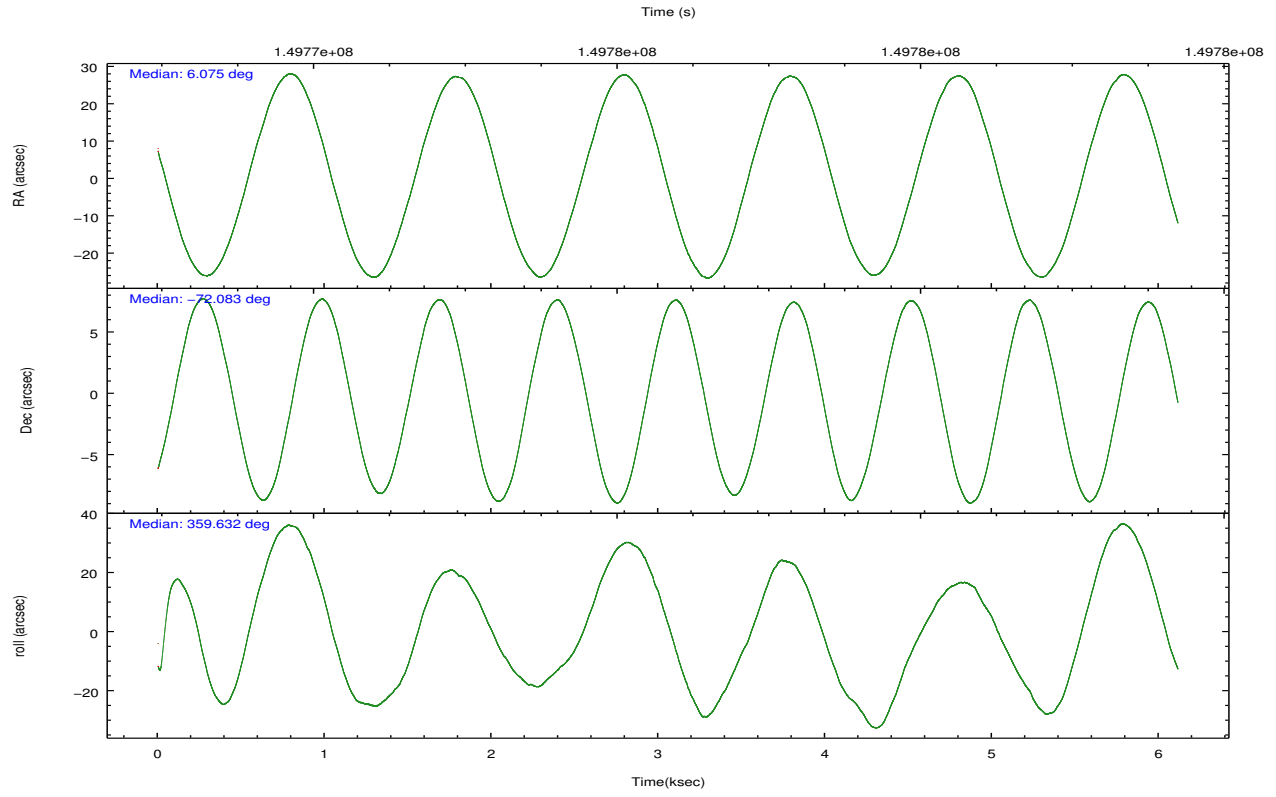


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-7	ACIS-7	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	5.998730	6.075154017334911	Subarray requested	CUSTOM	1/4
[deg] Pointing Dec	-72.096485	-72.08263378105724	Subarray start row	384	384
[deg] Pointing Roll	359.399318	359.6285745778146	Subarray row count	256	256
[s] Window start time (MET)	149701144.184000	149701144.184000	Alternating exposures requested	N	N
[s] Window stop time (MET)	149857624.184000	149857624.184000	[s] Primary exposure time	0.000000	0.8
[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)	149774648.184000	149773102.33466			
Observation start date	2002-09-30T12:03:04	2002-09-30T11:38:22			
[s] Observation end time (MET)	149779398.184000	149779532.67243			
Observation end date	2002-09-30T13:22:14	2002-09-30T13:25:32			
Read mode	TIMED	TIMED			

## 2.3 Aspect



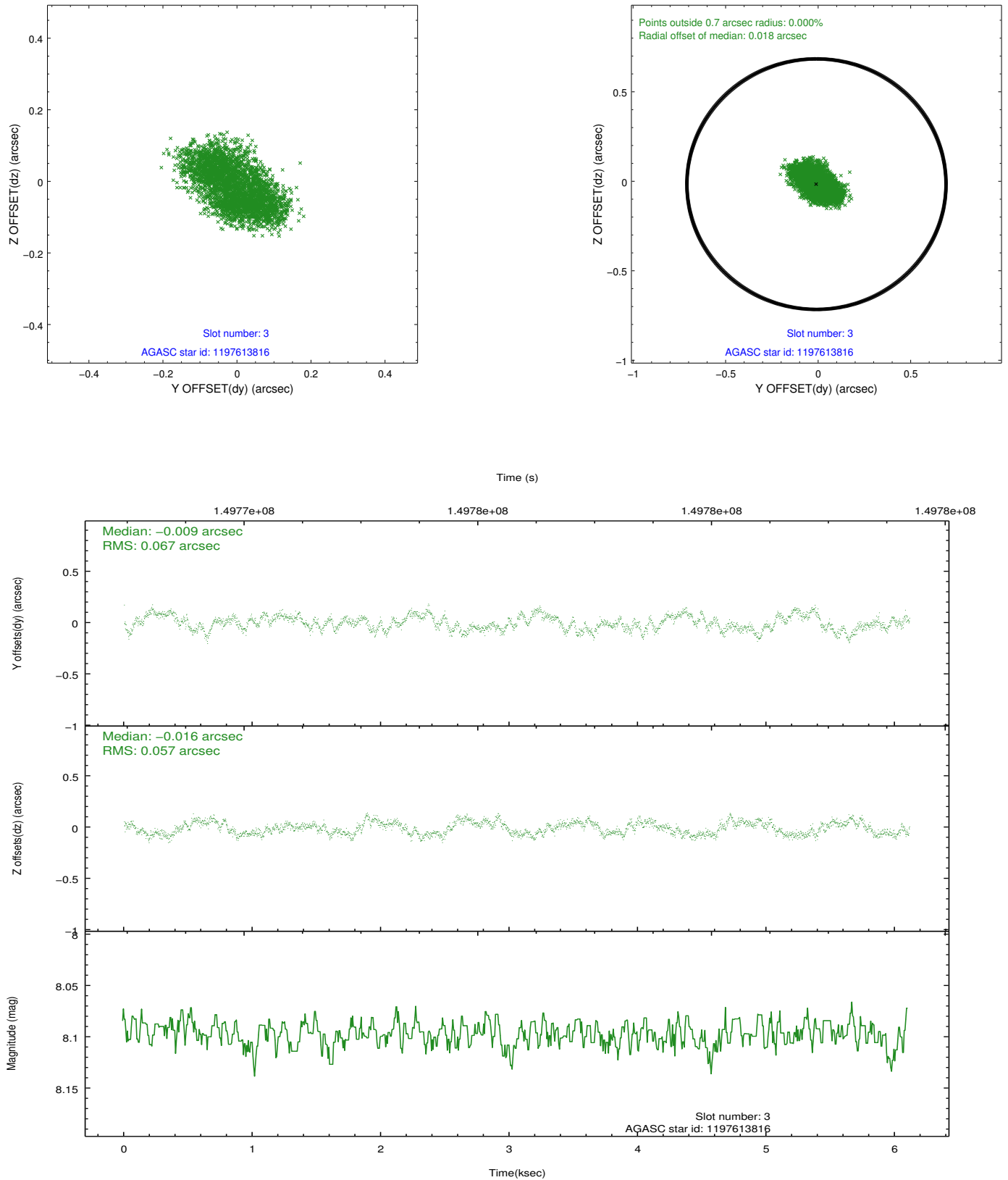


### Slot Statistics

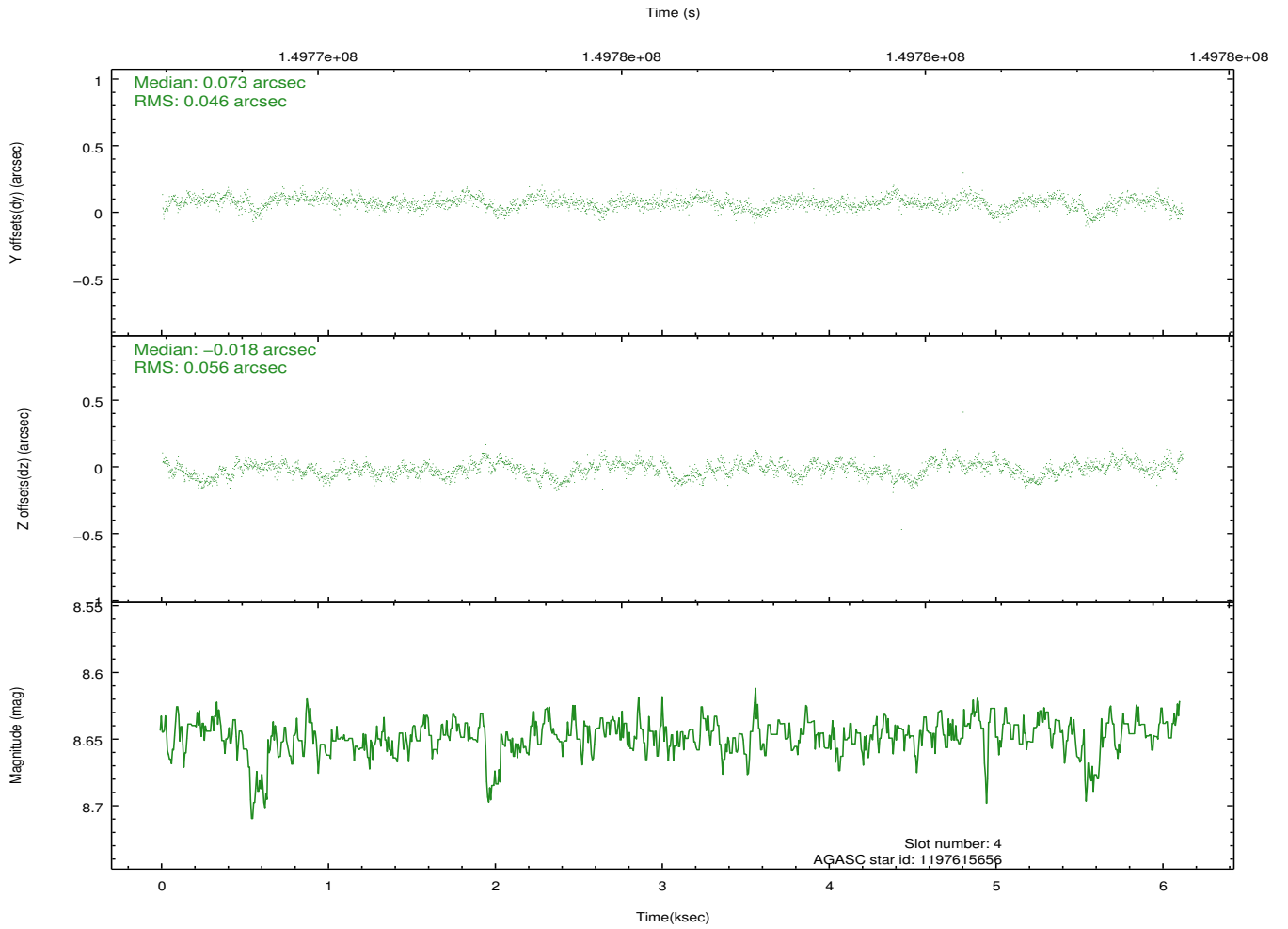
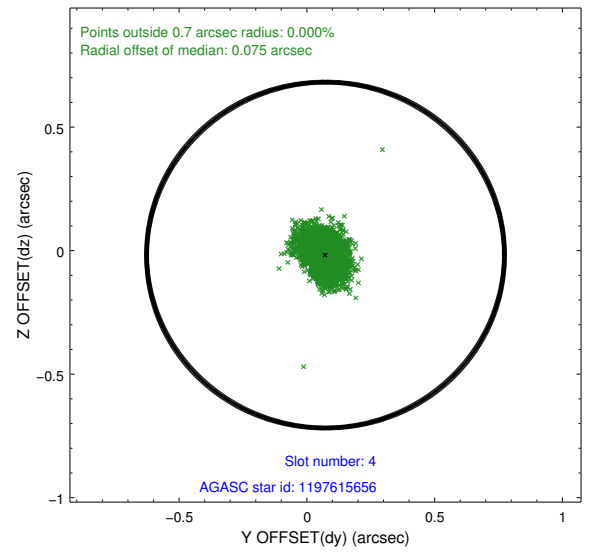
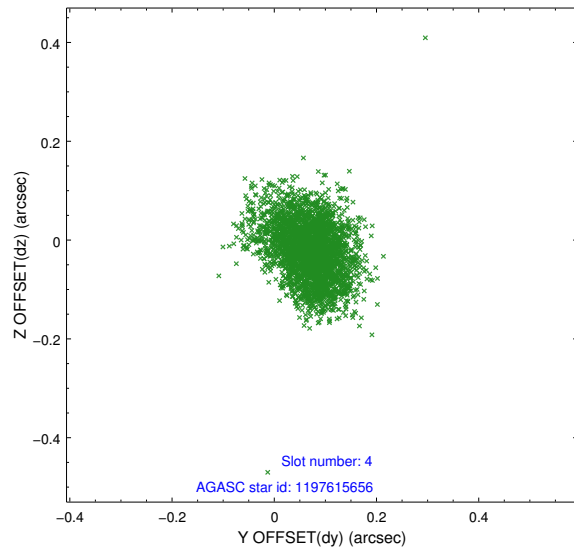
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	1492	-0.018	0.004	0.007	0.012	0.000000	0.000000	-755.69	-1728.35
1	FID	ACIS-S-4	7.20	1492	-0.003	0.008	0.005	0.009	0.000000	0.000000	2157.16	179.15
2	FID	ACIS-S-5	7.23	1492	-0.010	-0.003	0.006	0.011	0.000000	0.000000	-1807.28	173.91
3	GUIDE	1197613816	8.10	2982	-0.009	-0.016	0.095	0.147	5.181461	-71.977993	-914.53	411.08
4	GUIDE	1197615656	8.65	2974	0.073	-0.018	0.077	0.127	6.909375	-71.882658	1011.13	772.94
5	GUIDE	1197999176	8.85	2983	-0.084	-0.059	0.076	0.122	6.259352	-72.617840	300.10	-1874.15
6	GUIDE	1197607928	9.62	2981	0.106	0.081	0.111	0.188	7.837743	-72.165759	2030.30	-259.54
7	GUIDE	1197619752	9.98	2973	-0.086	-0.000	0.196	0.292	4.510721	-71.856694	-1675.90	825.20

## 2.4 Star Slots

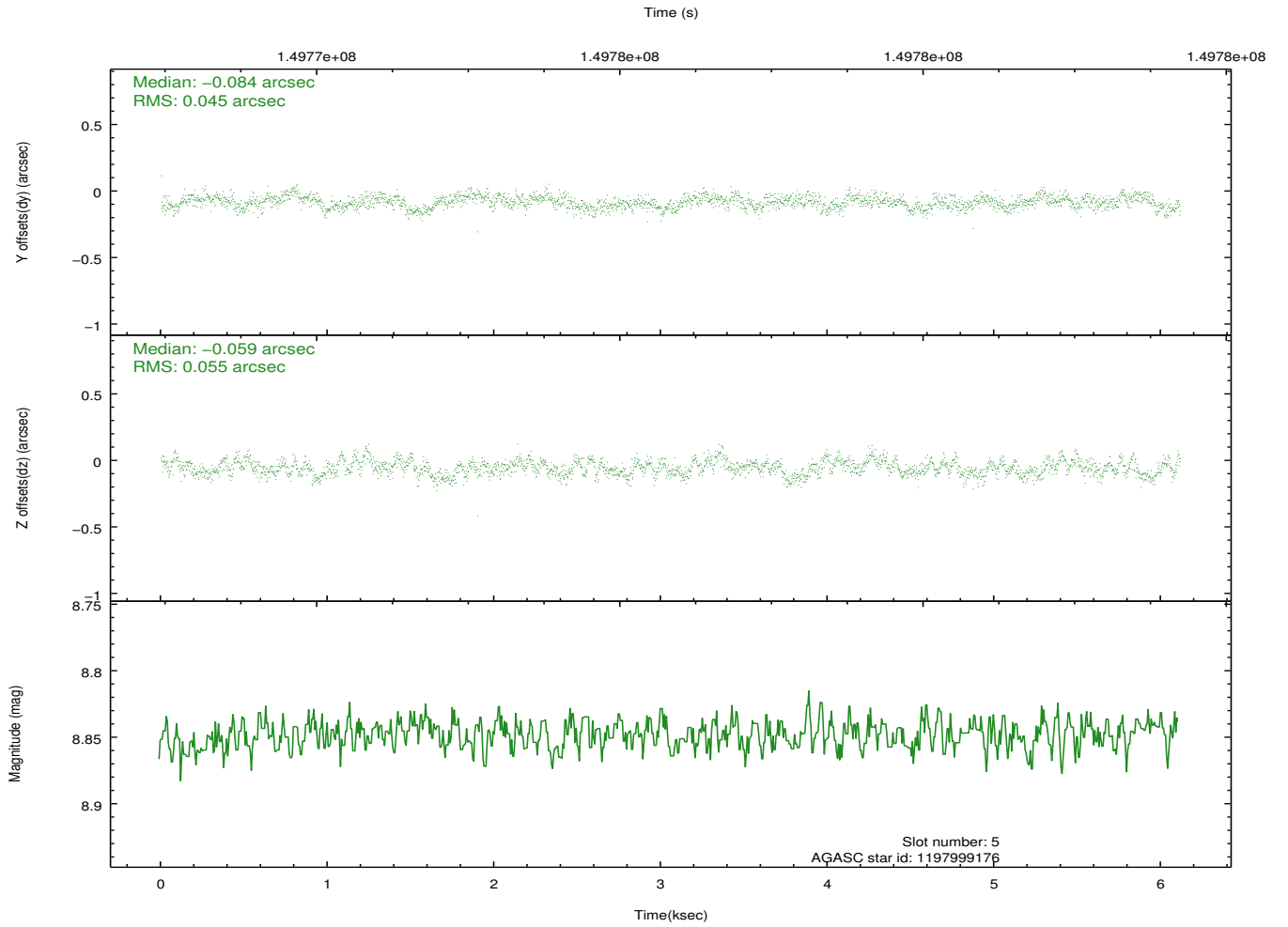
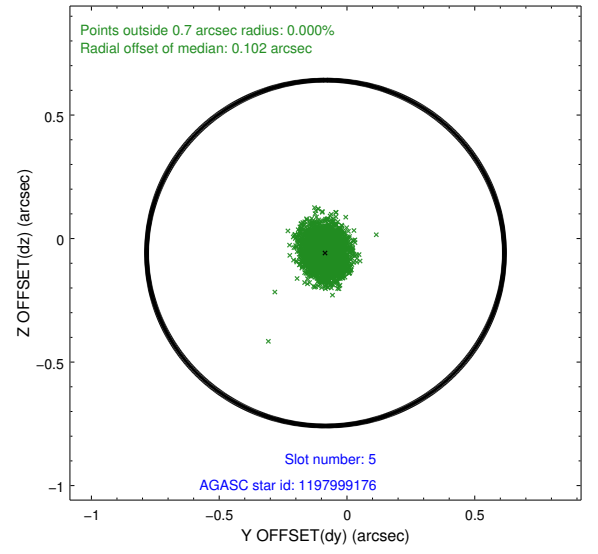
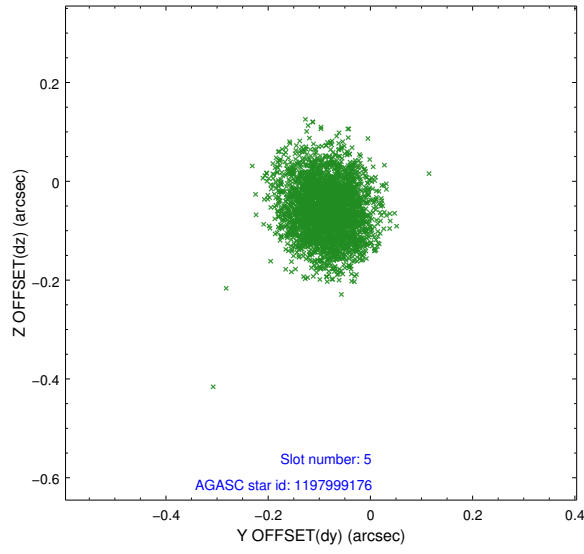
### 2.4.1 Slot 3



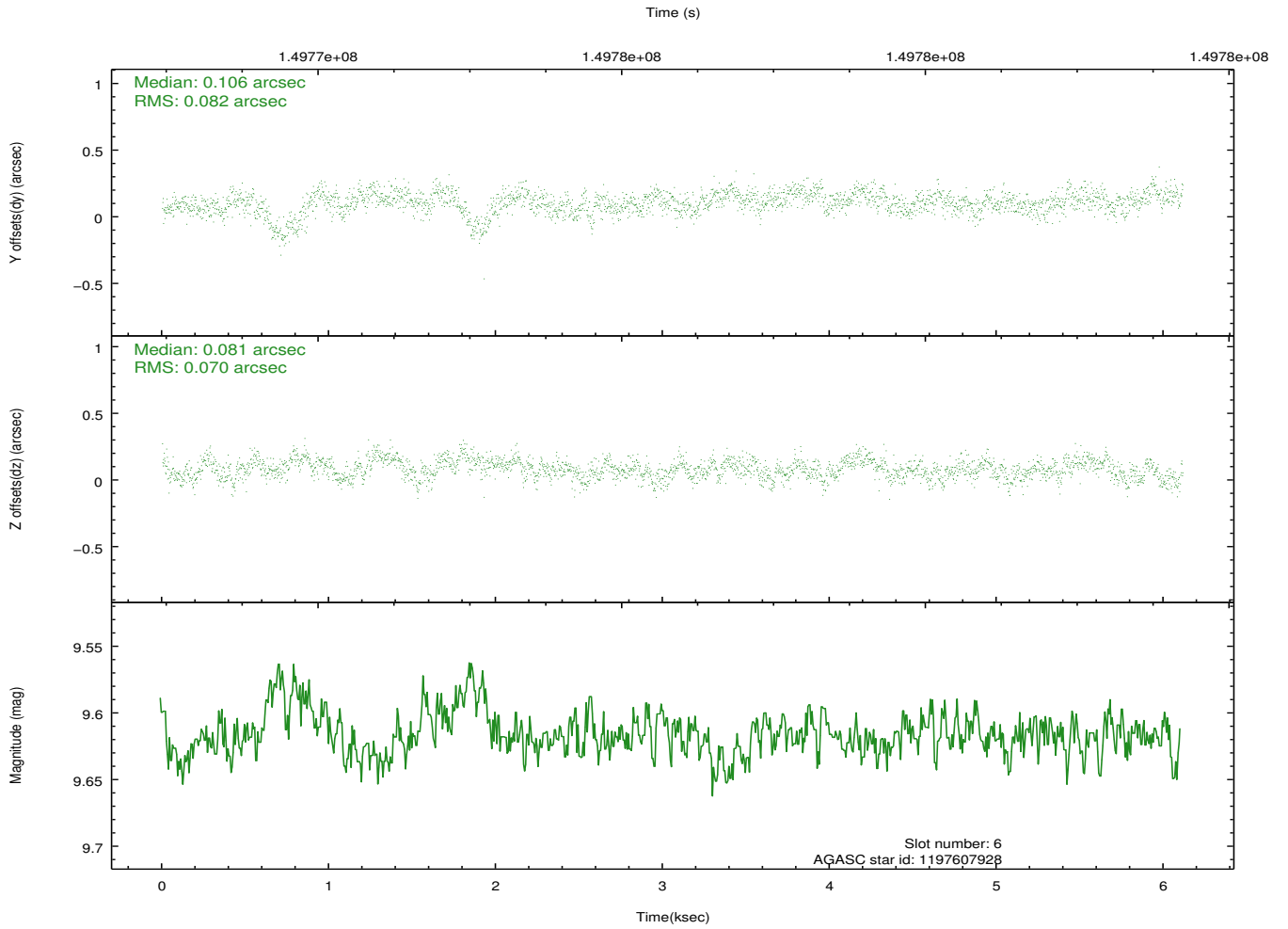
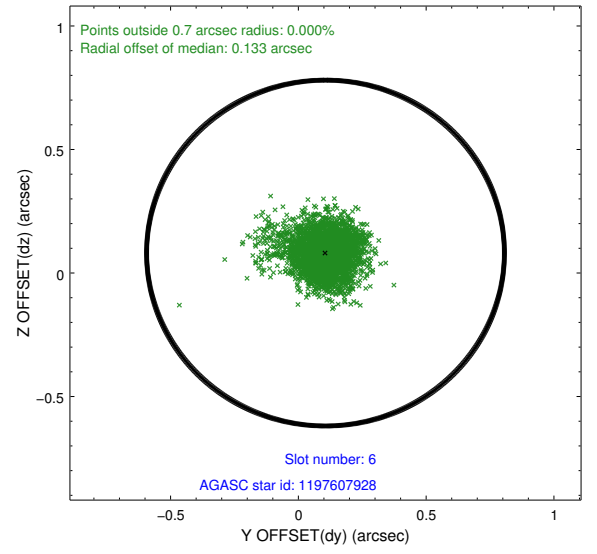
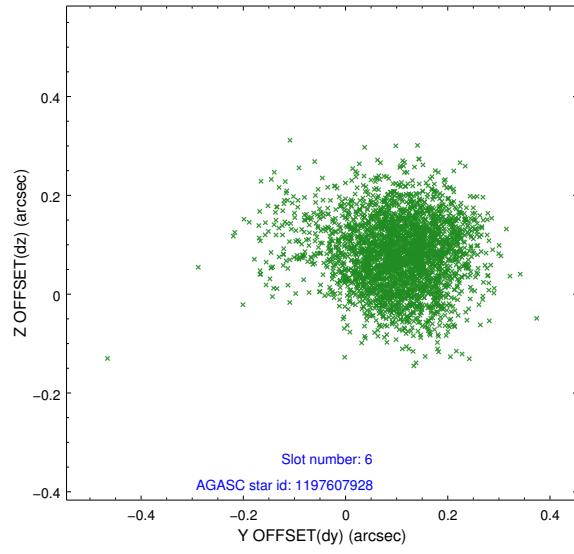
## 2.4.2 Slot 4



### 2.4.3 Slot 5

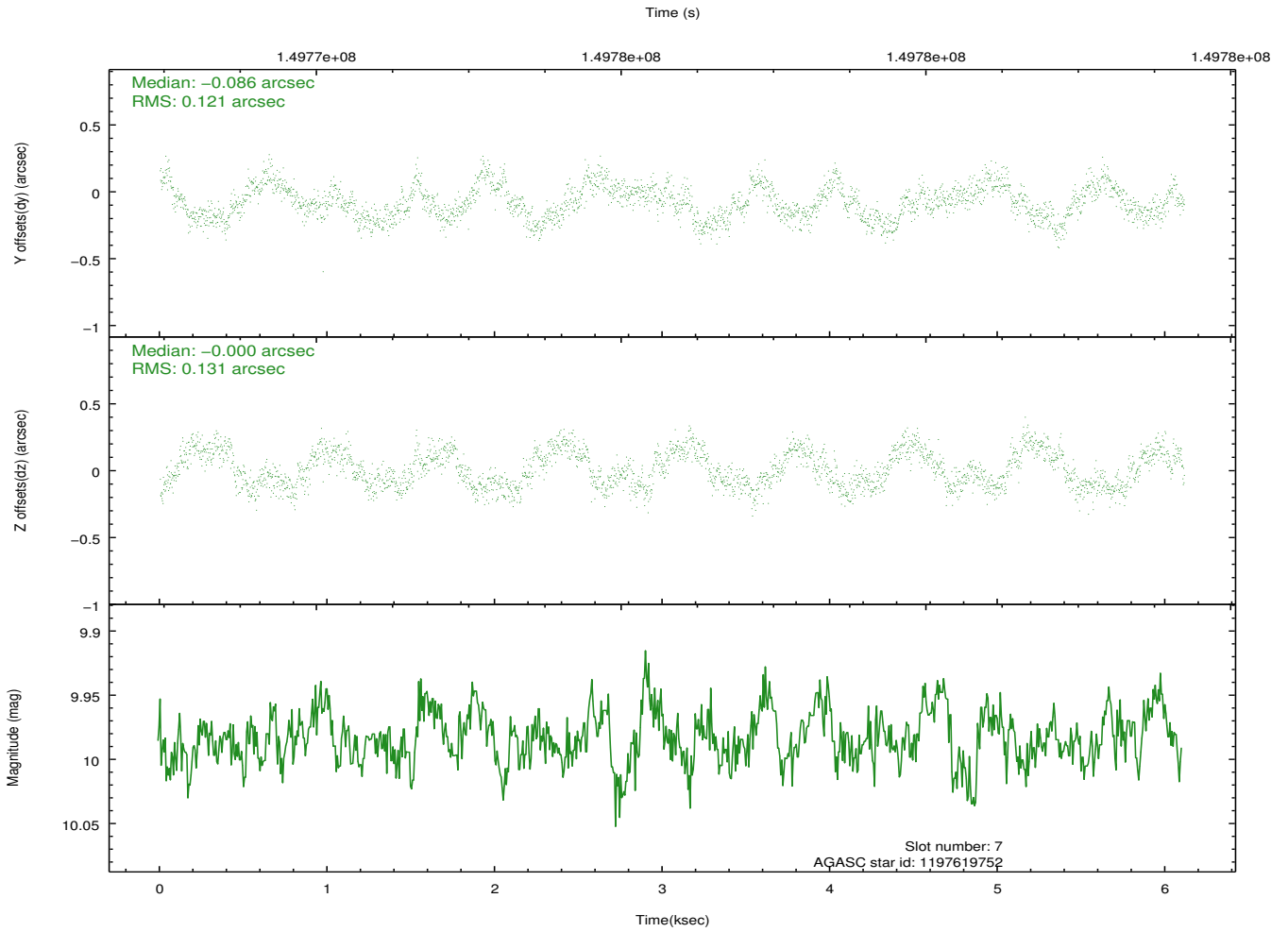
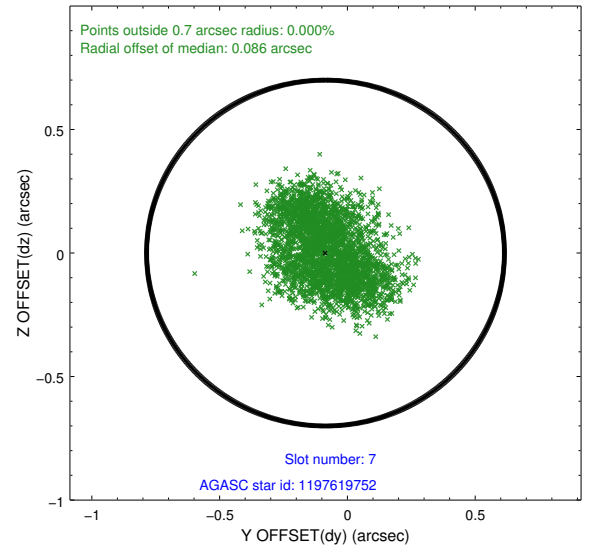
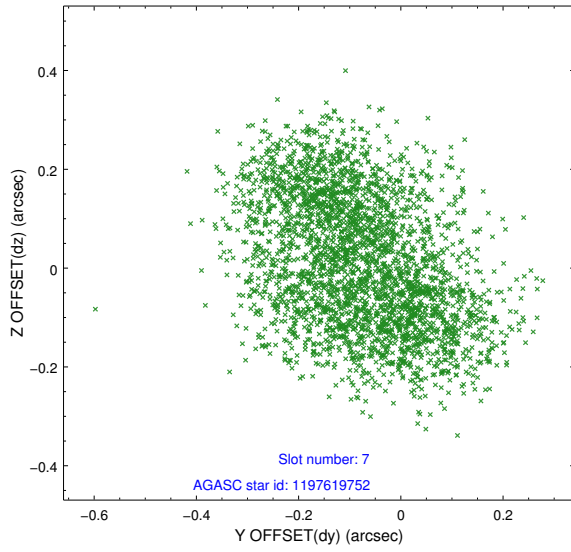


## 2.4.4 Slot 6



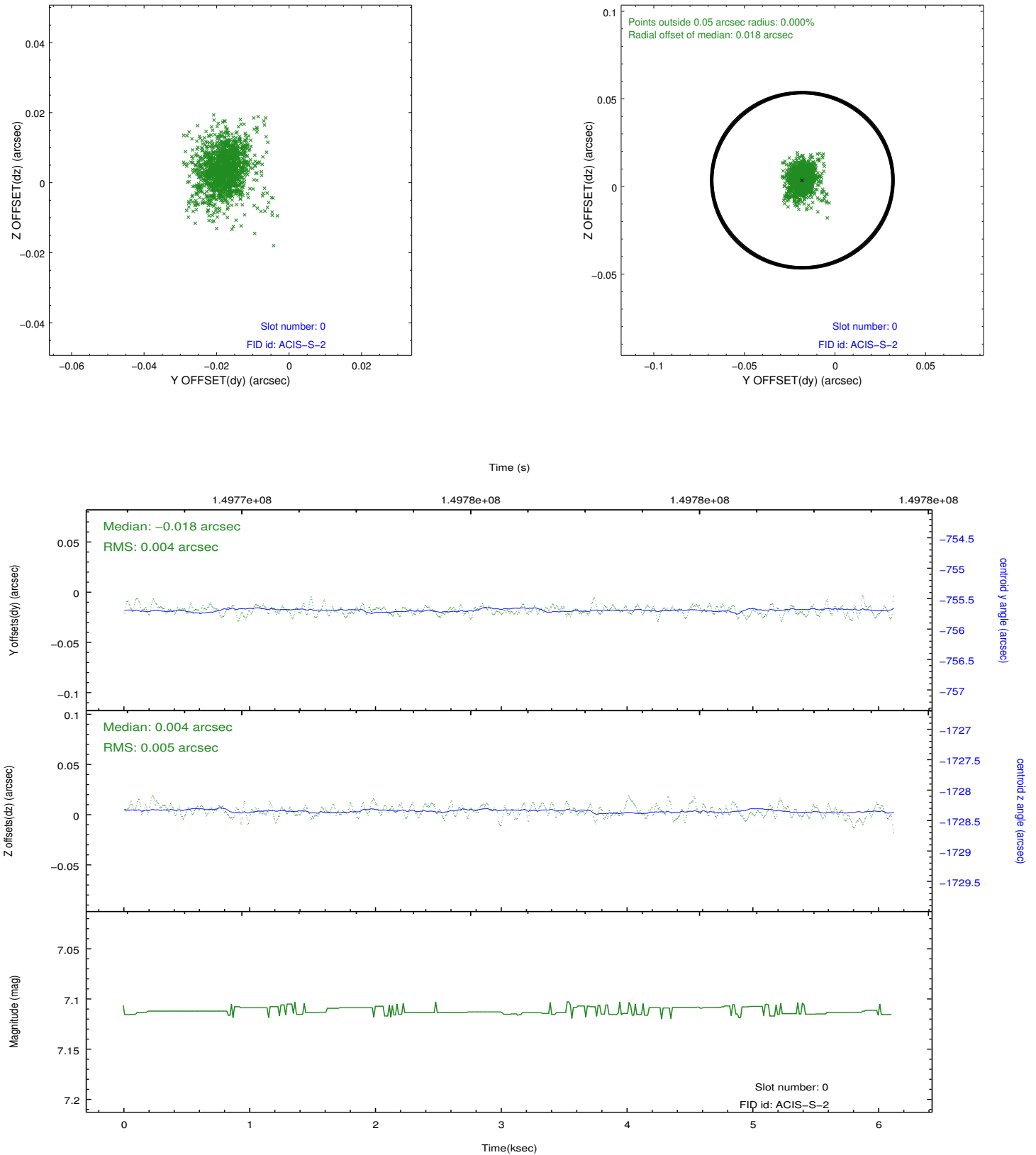


## 2.4.5 Slot 7

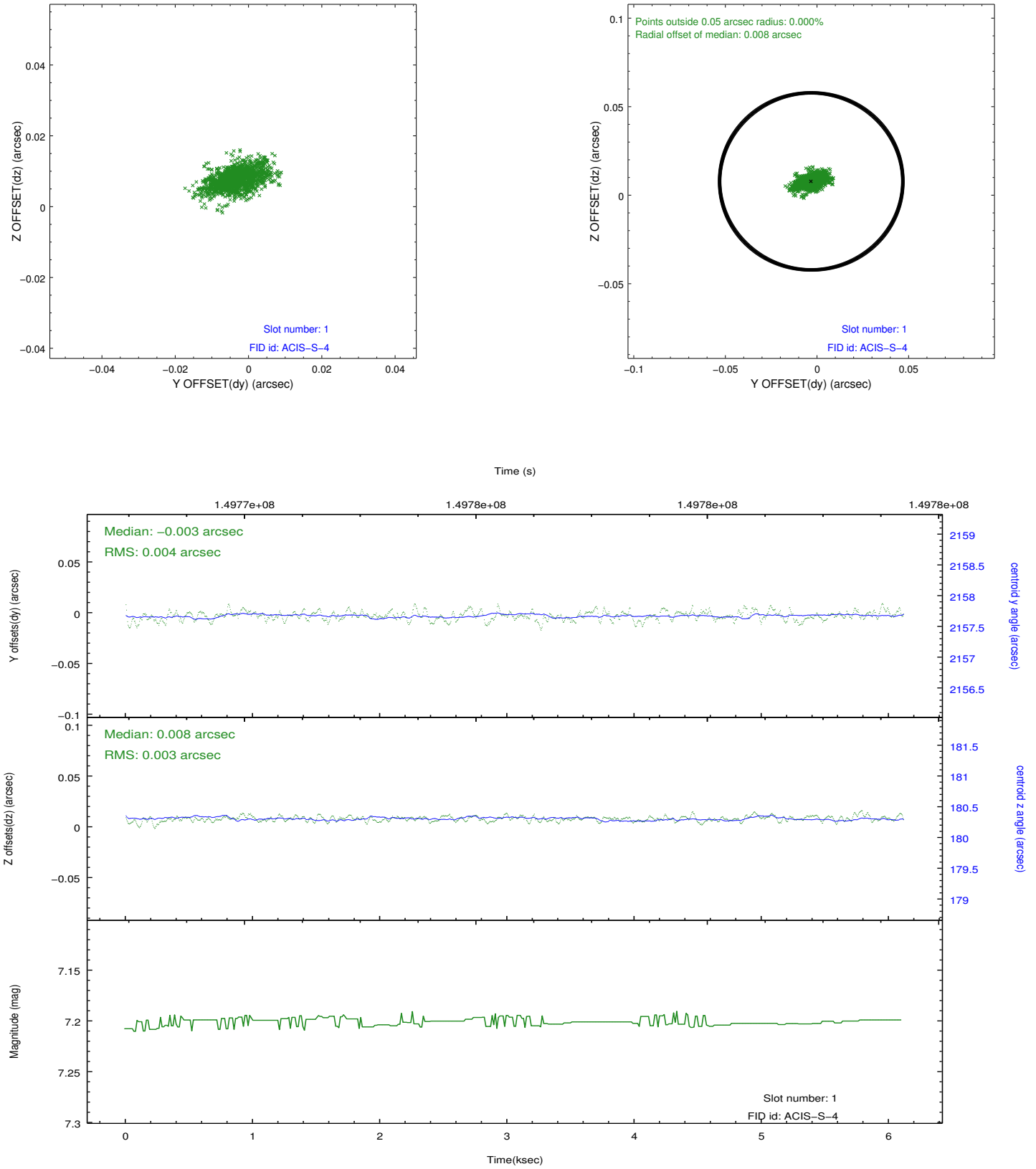


## 2.5 FID Slots

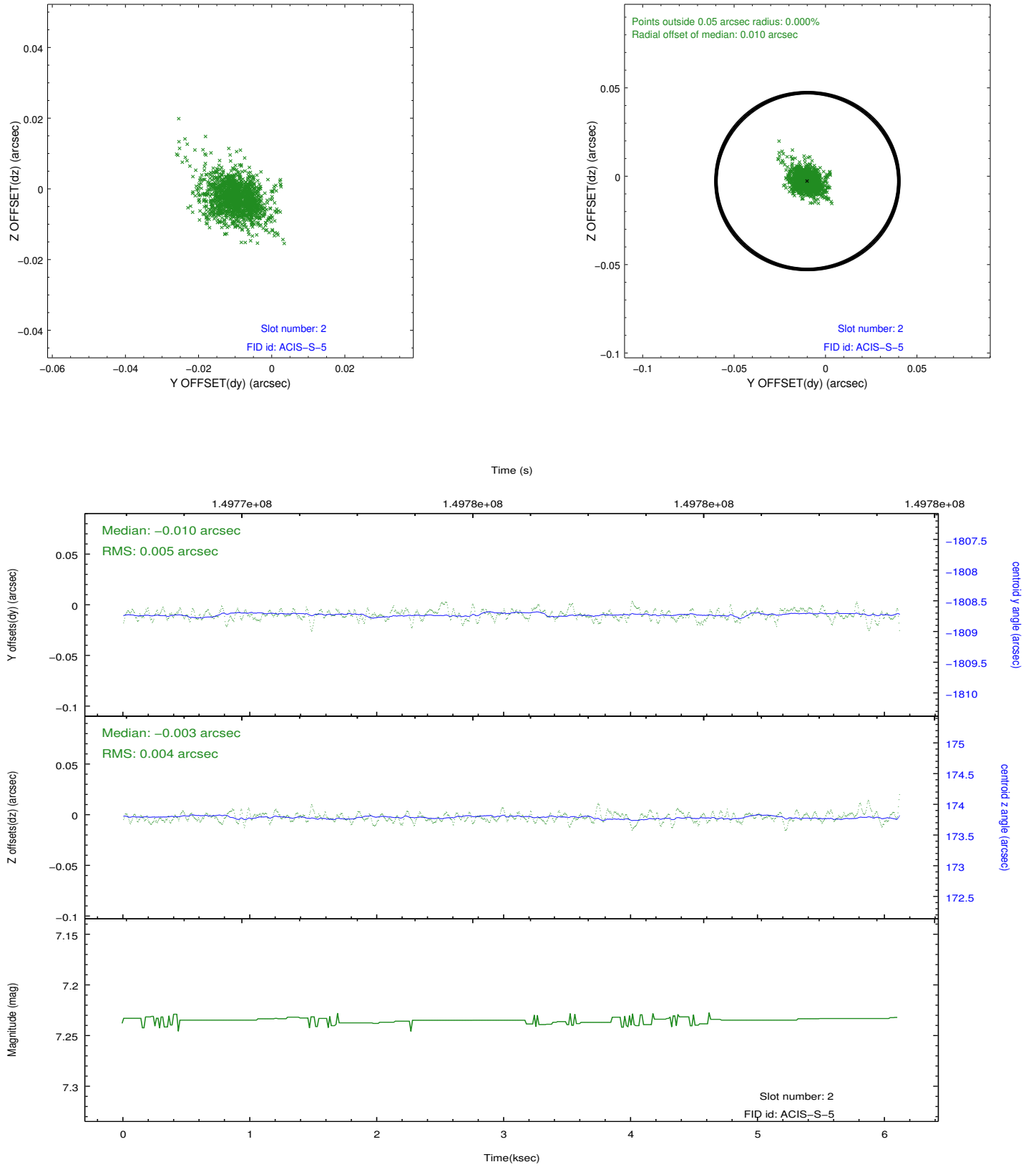
### 2.5.1 Slot 0



## 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)	2012.10.24
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.58

### A.2 Comments

Window constraint met. Joint Proposal: HST