

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 3094 - L2 Version 3  
Chandra X-Ray Center

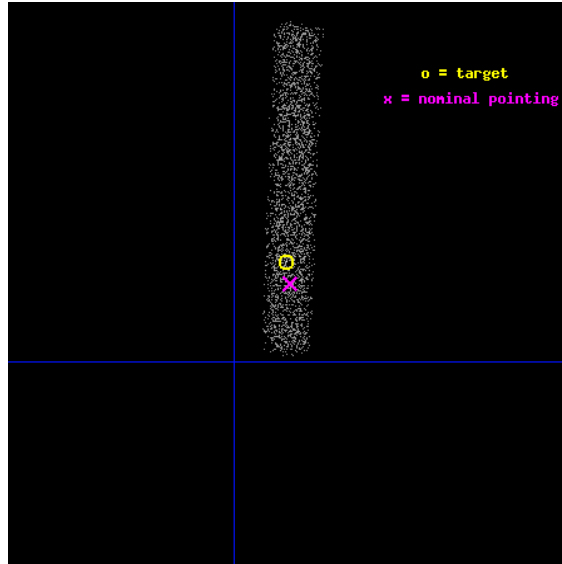
L2 Processing Date : Oct 8 2012

## 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

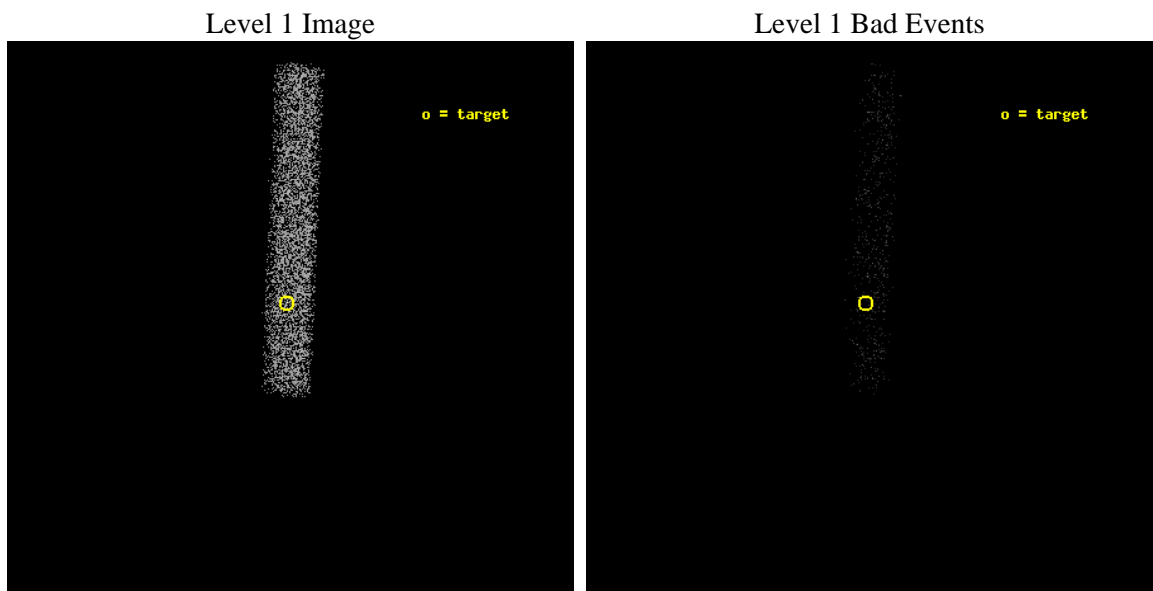
seq_num	700533	Sequence number
obs_id	3094	Observation id
title	THE X-RAY SPECTRA OF RED QUASARS SELECTED FROM 2MASS AND FIRST	Pro
observer	Dr Mark Lacy	Principal investigator
object	FTM0906+4952	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	136.714583	Observer's specified target RA [deg]
dec_targ	49.876667	Observer's specified target Dec [deg]
ra_nom	136.71251596951	Nominal RA [deg]
dec_nom	49.867080491732	Nominal Dec [deg]
roll_nom	272.36409295348	Nominal Roll [deg]
revision	3	Processing version of data
ontime	5937.2000884414	Sum of GTIs [s]
livetime	5384.7270890998	Livetime [s]
ontime7	5937.2000884414	Sum of GTIs [s]
l2events	3160	Number of level 2 events



## 2 OBI

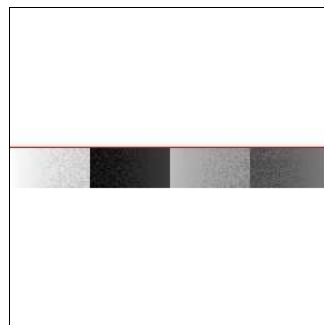
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	5483.967000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	5937.2000884414	Sum of GTIs [s]
caldsver	4.5.2	&#160	ontime7	5937.2000884414	Sum of GTIs [s]
date	2012-10-08T07:47:12	Date and time of file creation	l1events	7284	Number of level 1 events
revision	3	Processing version of data			

### 2.1.4 Events

	<b>ccd 7</b>
level 1 events	7284
rejected events	4003
rejected %	54%

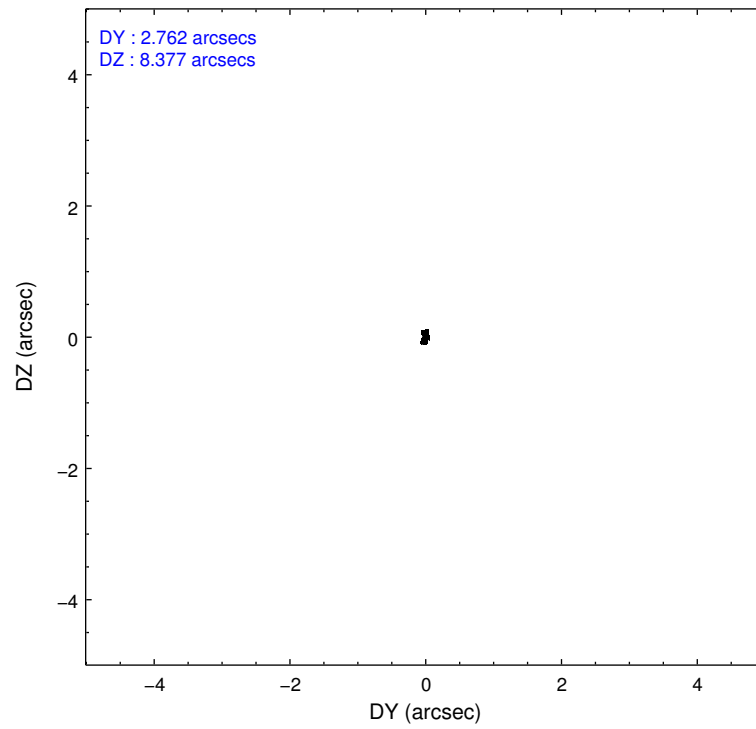
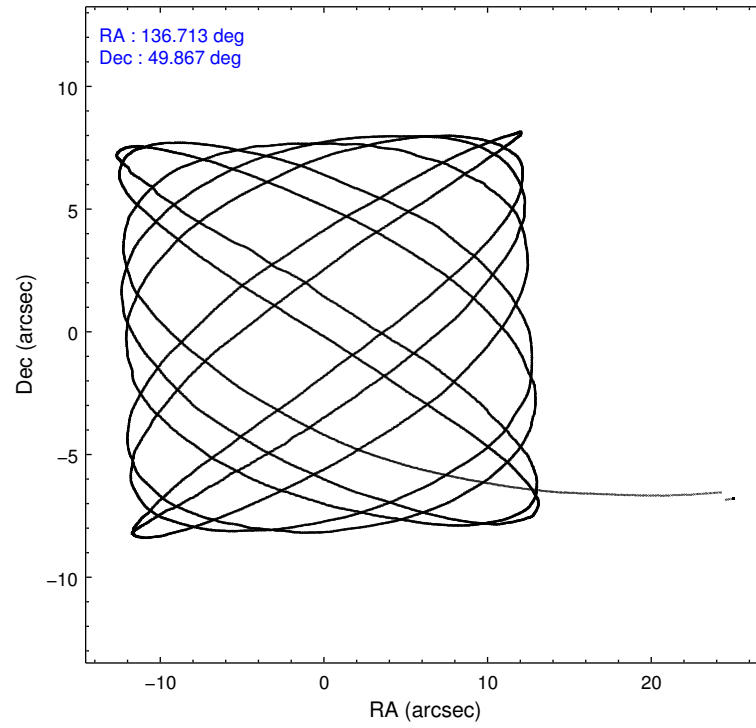
	<b>ccd 7</b>
grade 0 events	371
	5%
grade 1 events	13
	0%
grade 2 events	650
	8%
grade 3 events	427
	5%
grade 4 events	475
	6%
grade 5 events	619
	8%
grade 6 events	1564
	21%
grade 7 events	3165
	43%

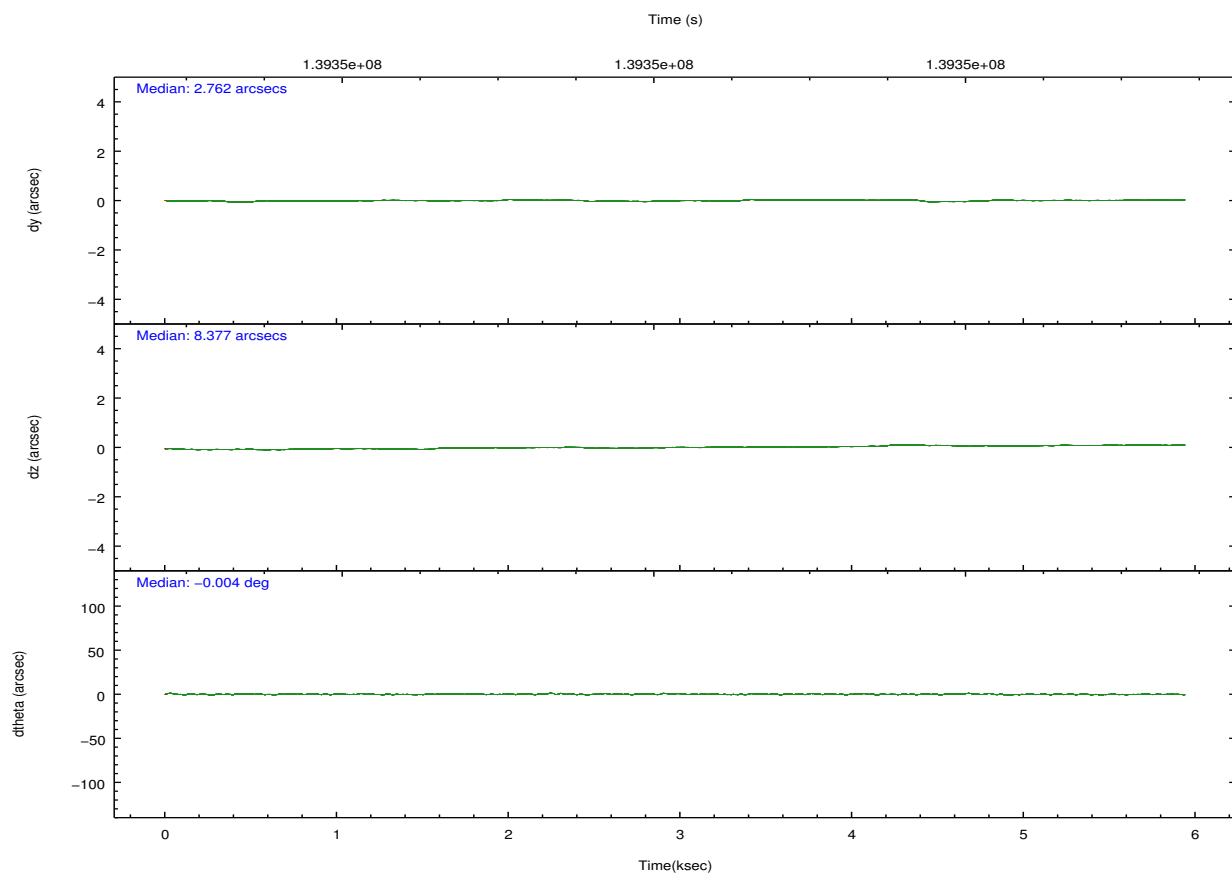
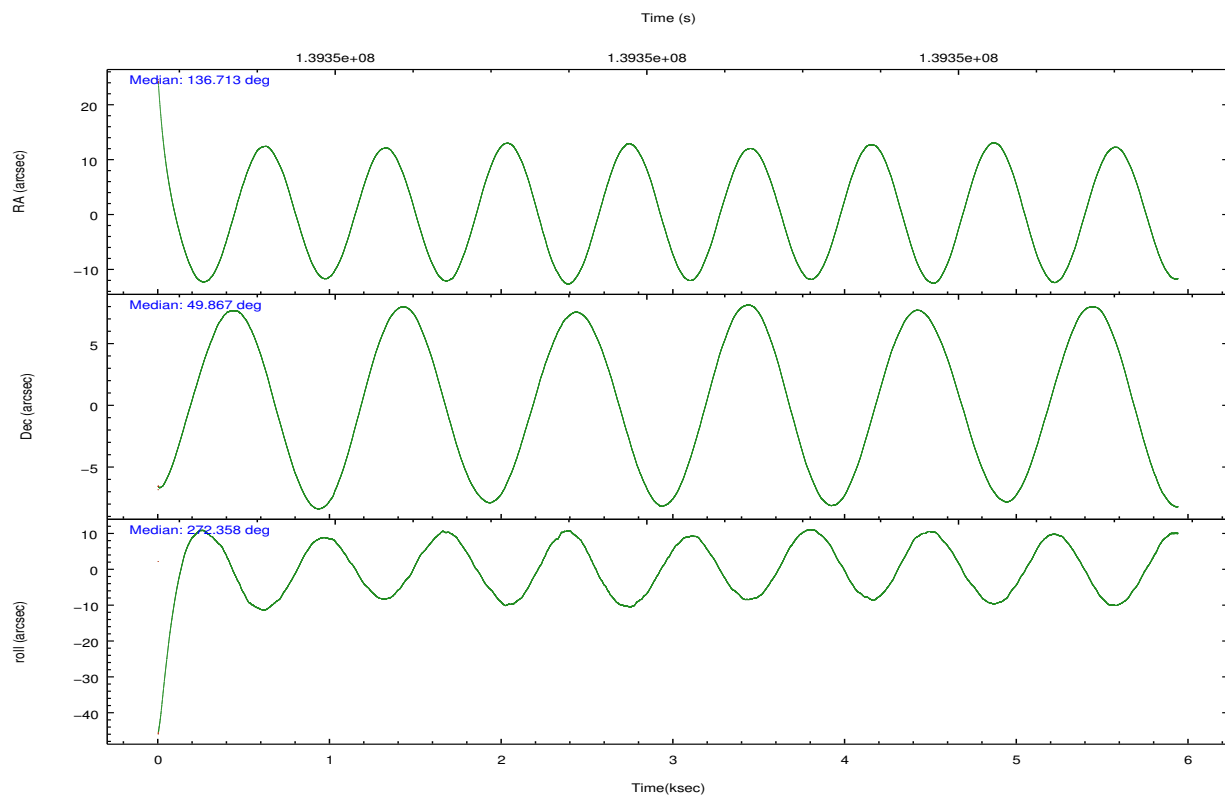


## 2.2 Compared Parameters

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	136.689458	136.7125159695099	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	49.889896	49.86708049173227	Subarray start row	449	449
[deg] Pointing Roll	272.225149	272.3640929534758	Subarray row count	128	128
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	0.4
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	139349625.184000	139348519.29332			
Observation start date	2002-06-01T20:12:41	2002-06-01T19:55:19			
[s] Observation end time (MET)	139355109.184000	139355423.69361			
Observation end date	2002-06-01T21:44:05	2002-06-01T21:50:23			
Read mode	TIMED	TIMED			

## 2.3 Aspect



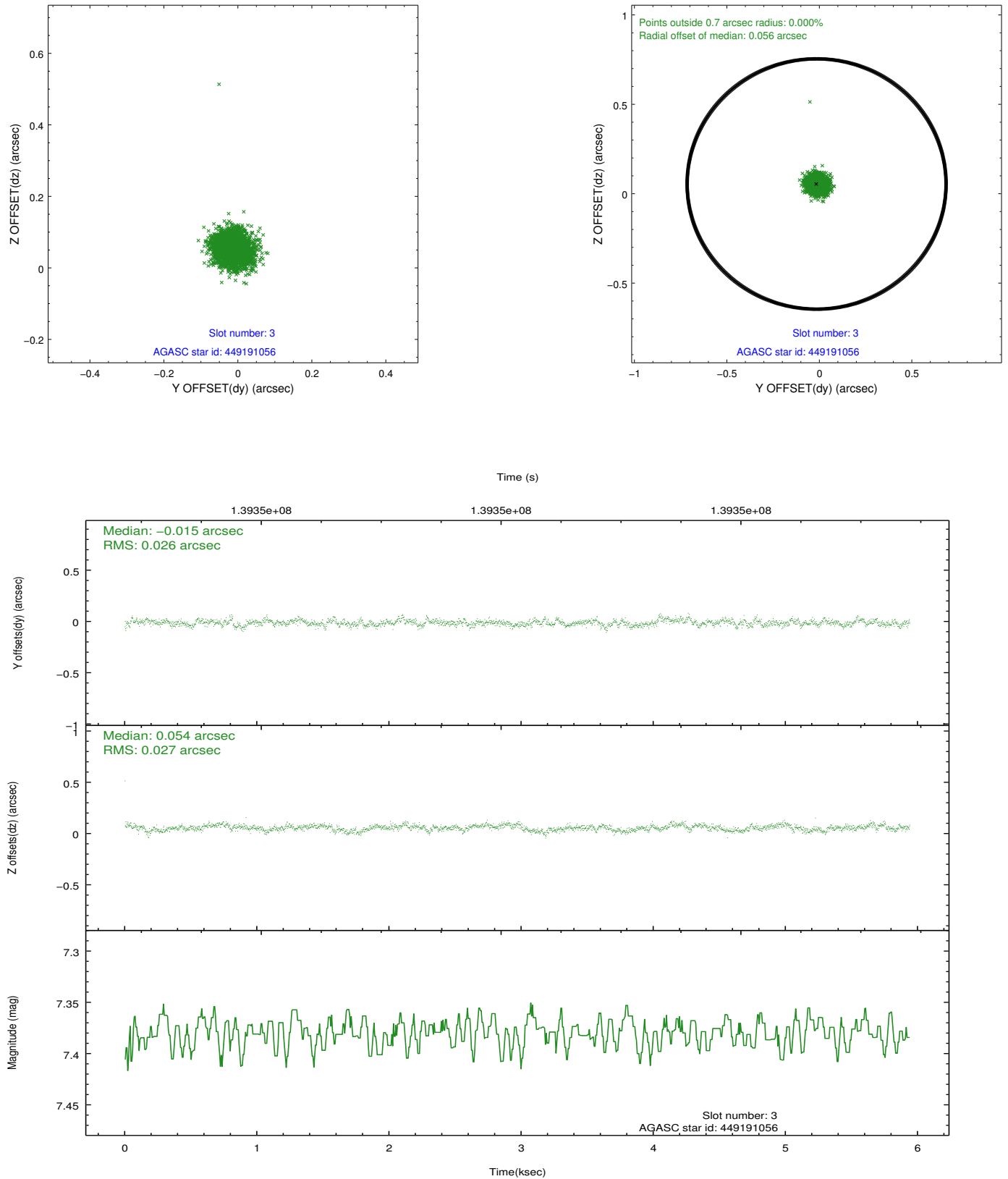


### Slot Statistics

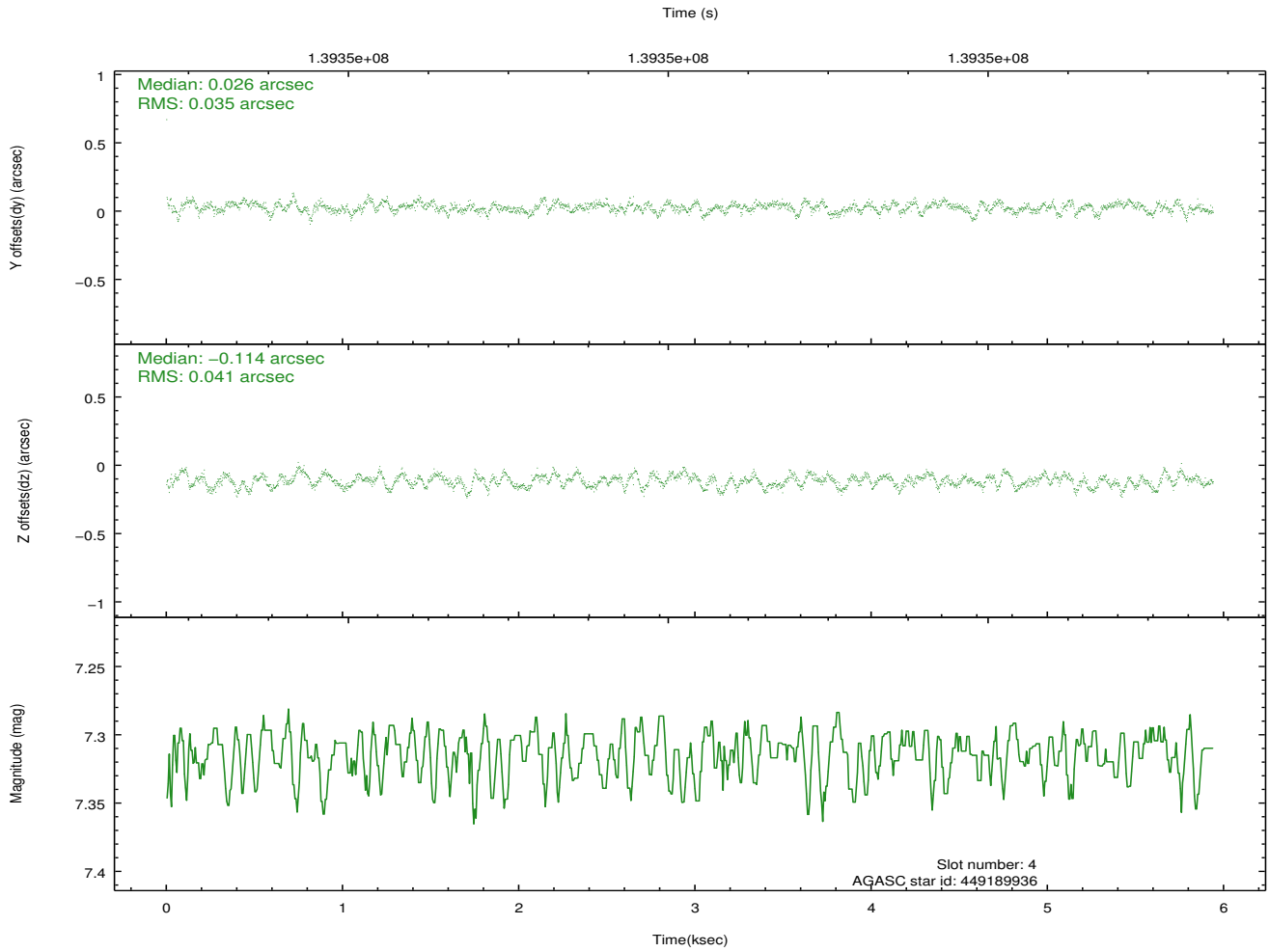
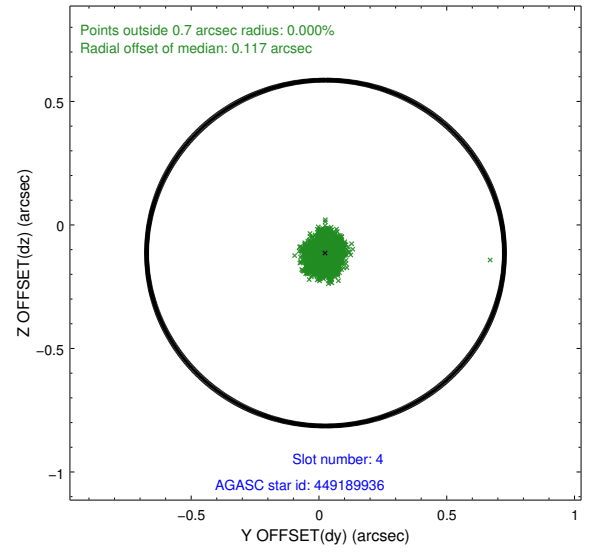
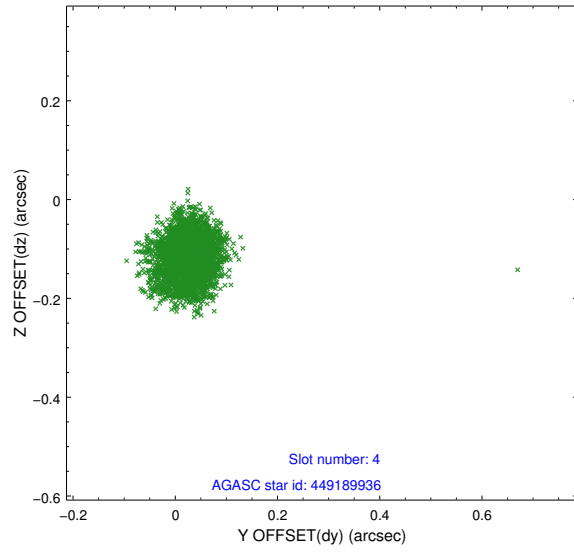
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	1449	-0.007	0.000	0.007	0.012	0.000000	0.000000	-755.41	-1729.52
1	FID	ACIS-S-4	7.20	1448	-0.040	0.004	0.006	0.011	0.000000	0.000000	2157.39	177.91
2	FID	ACIS-S-5	7.24	1449	0.016	0.005	0.007	0.012	0.000000	0.000000	-1806.93	172.75
3	GUIDE	449191056	7.38	2898	-0.015	0.054	0.039	0.063	137.240774	49.297845	2176.51	1210.41
4	GUIDE	449189936	7.31	2898	0.026	-0.114	0.057	0.089	135.761845	49.948243	-304.26	-2138.94
5	GUIDE	449185976	7.83	2898	-0.034	0.071	0.075	0.109	137.468357	49.832109	269.81	1798.19
6	GUIDE	449589448	8.68	2898	-0.060	0.018	0.069	0.109	135.813546	50.094265	-823.97	-1992.48
7	GUIDE	449589728	9.94	2892	0.085	-0.021	0.129	0.206	137.652393	50.155870	-883.95	2255.56

## 2.4 Star Slots

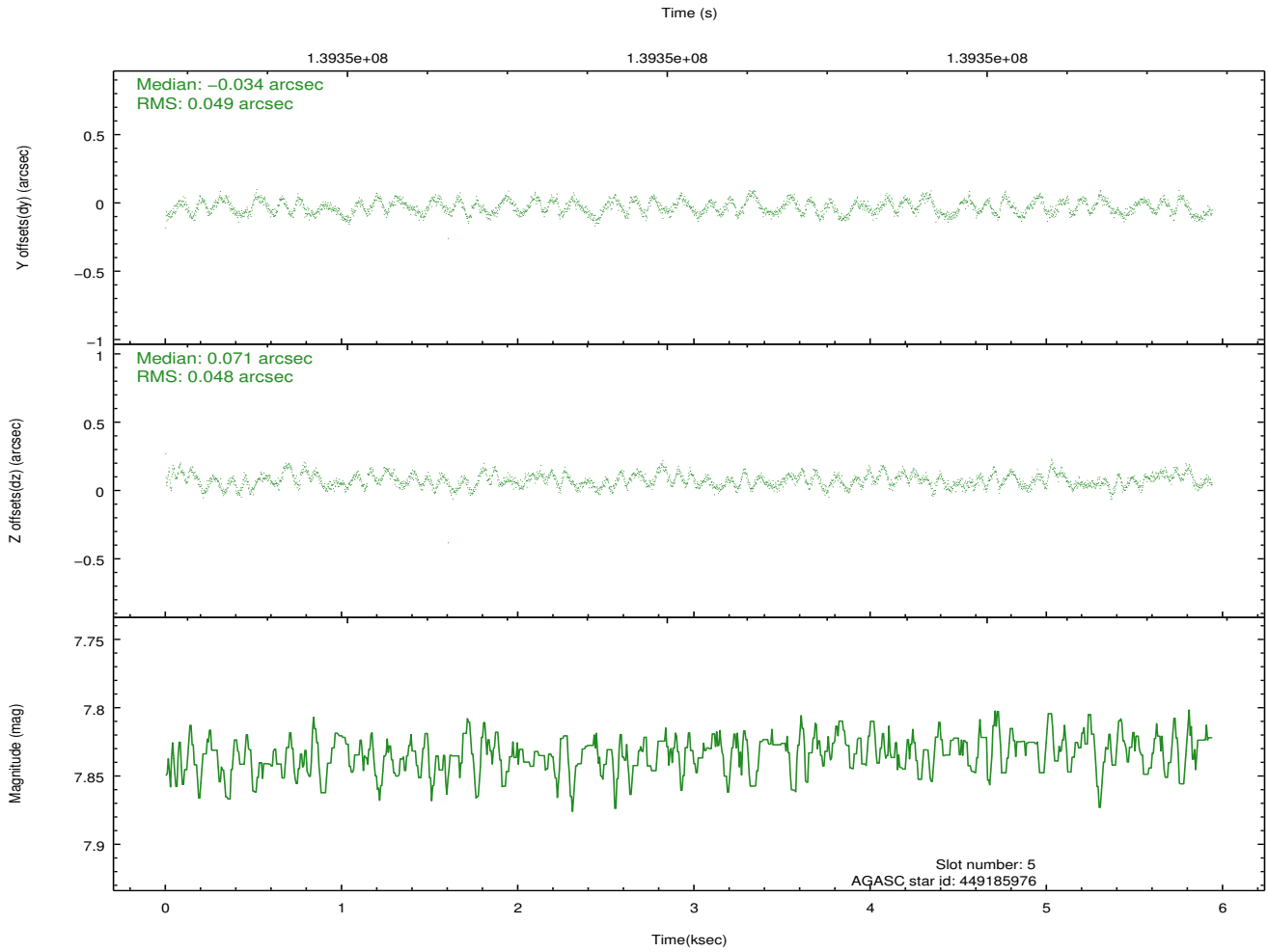
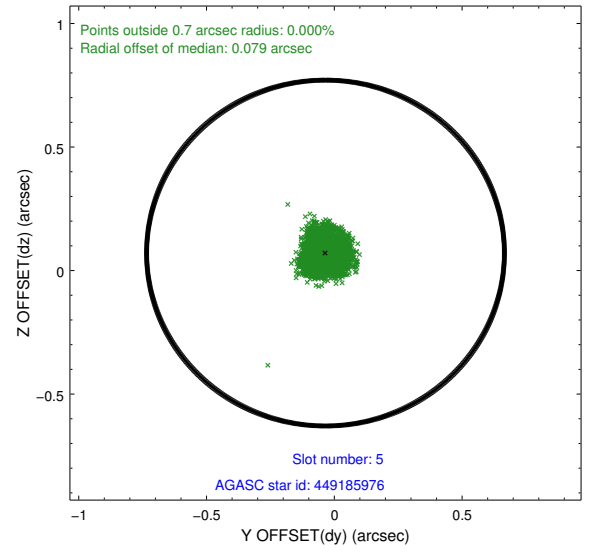
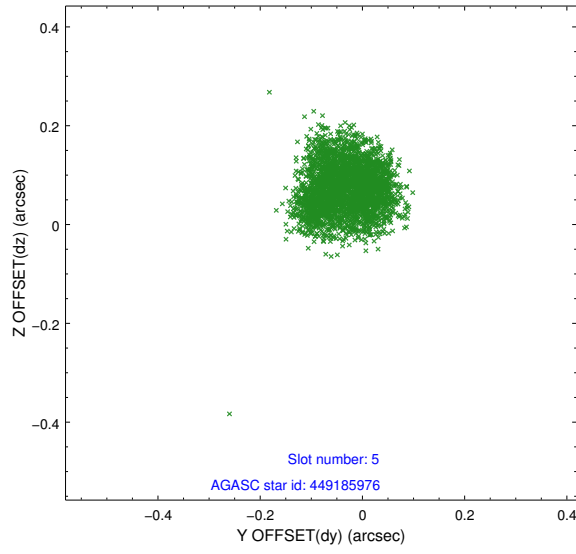
### 2.4.1 Slot 3



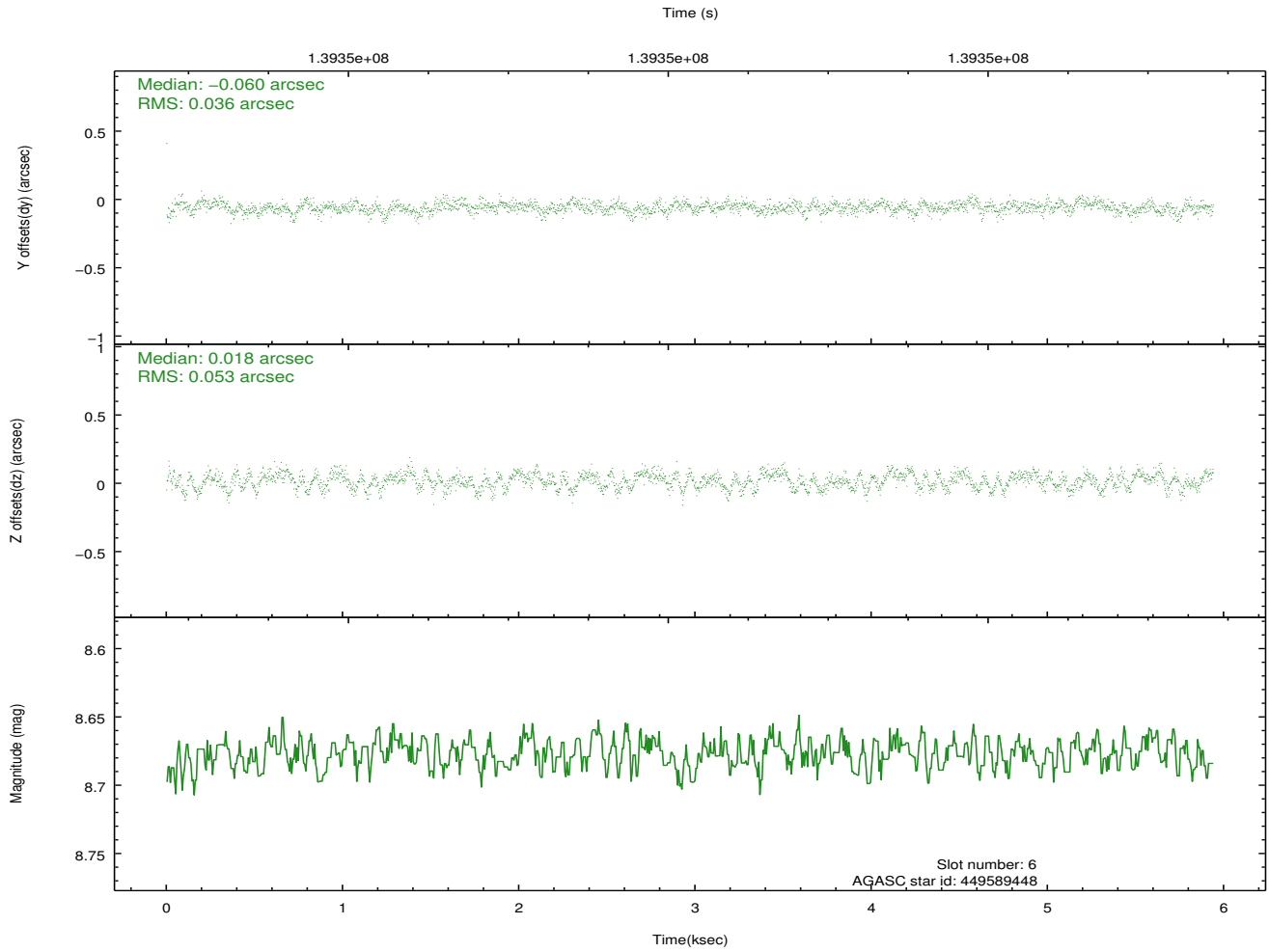
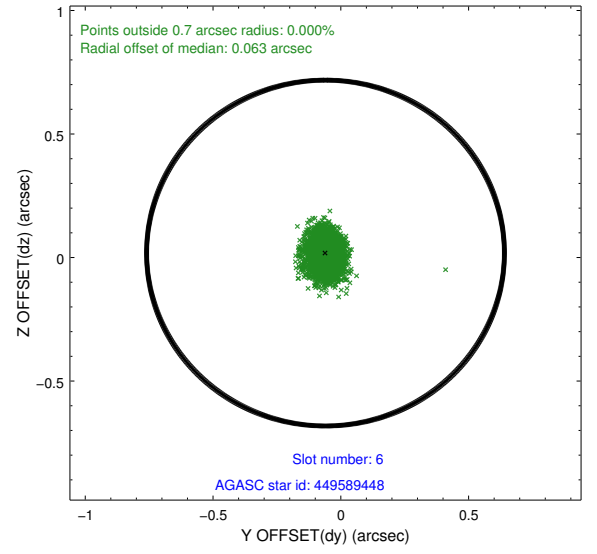
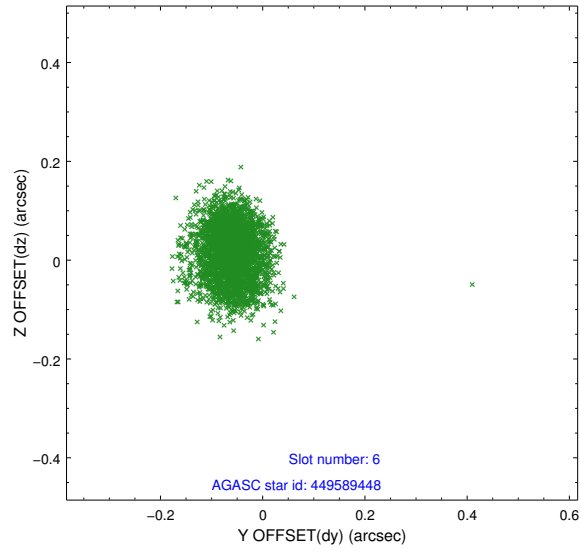
## 2.4.2 Slot 4



### 2.4.3 Slot 5

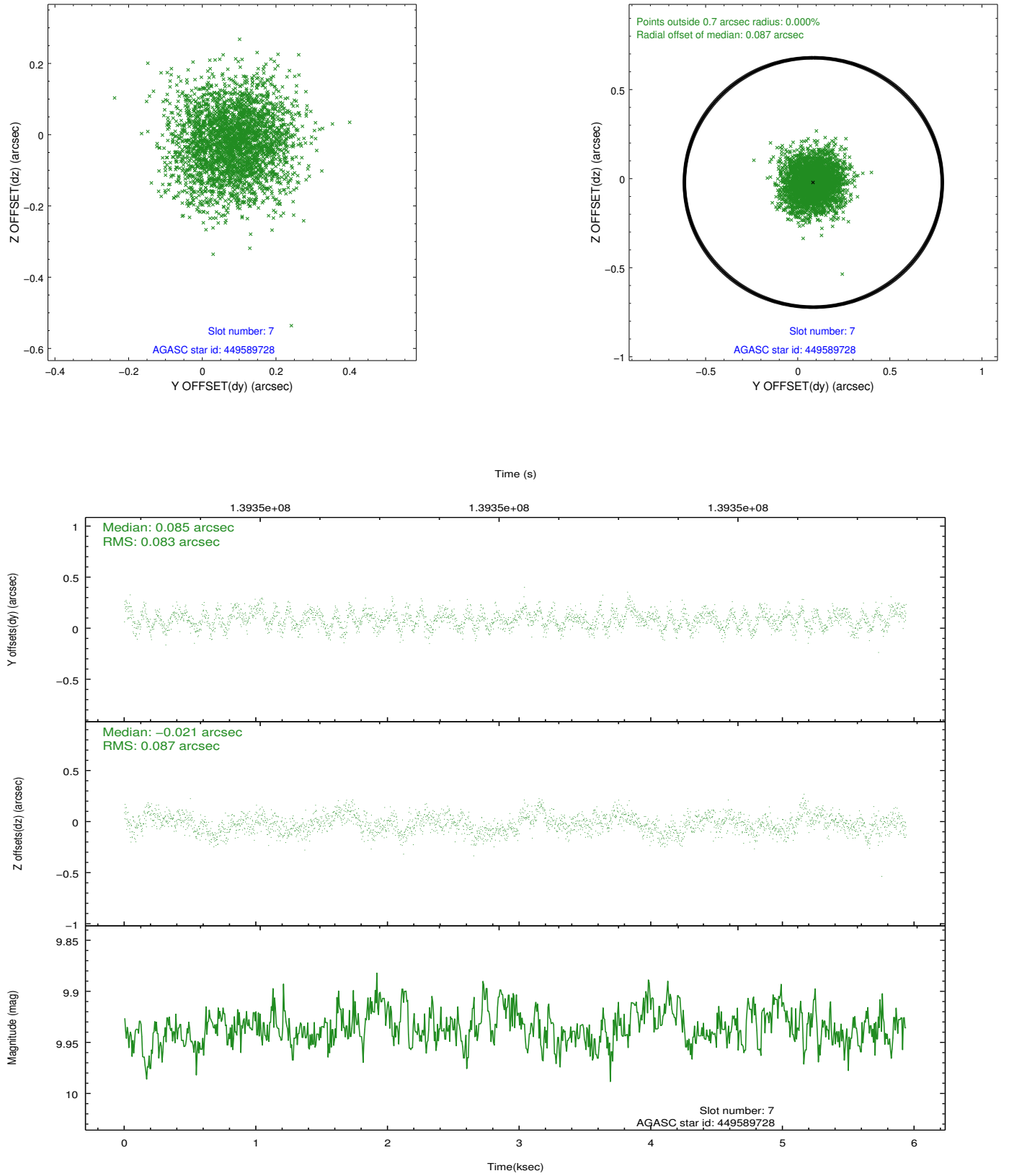


## 2.4.4 Slot 6



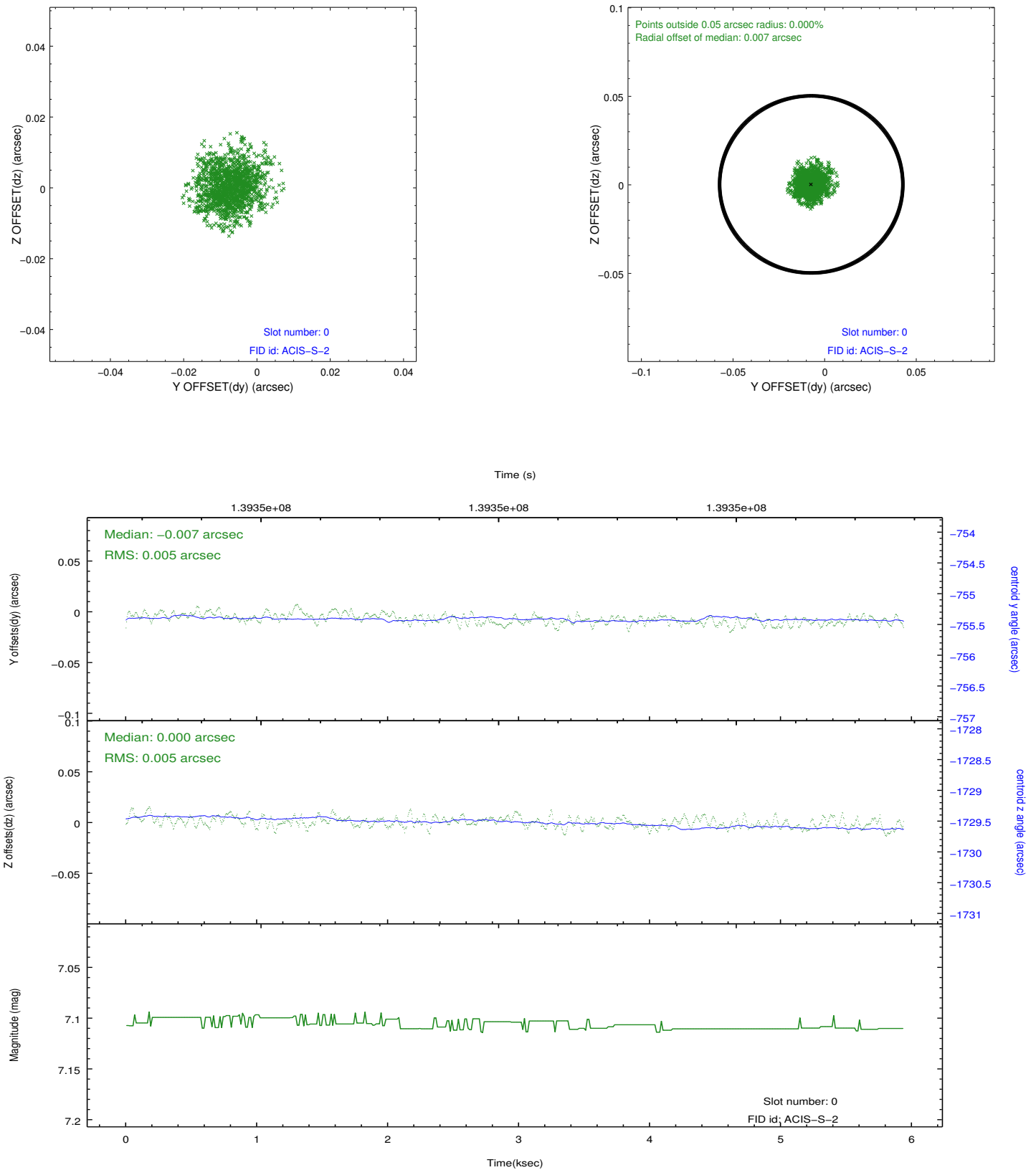


## 2.4.5 Slot 7

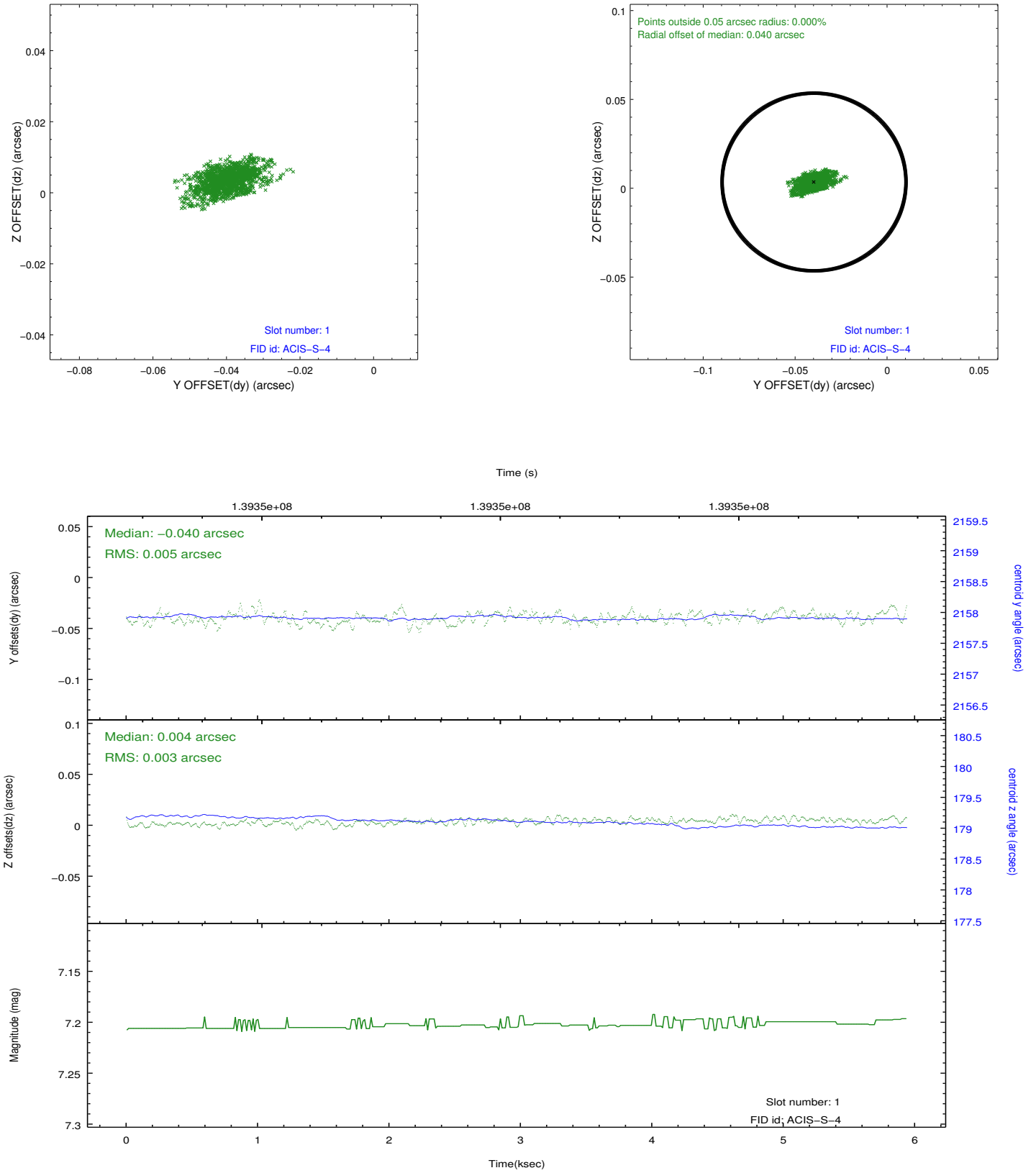


## 2.5 FID Slots

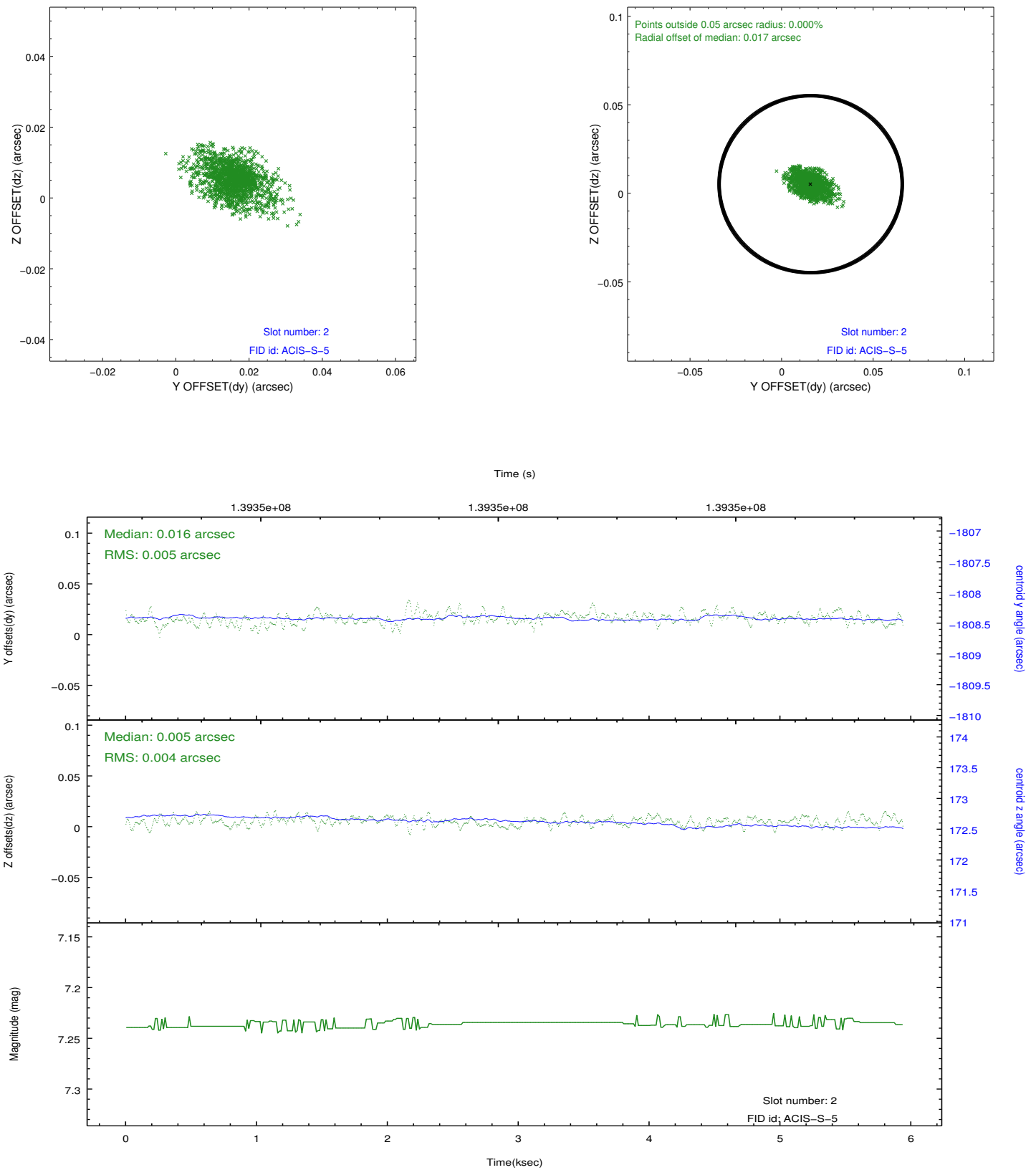
### 2.5.1 Slot 0



## 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)	2012.10.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.937

### A.2 Comments