

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 2117 - L2 Version 3  
Chandra X-Ray Center

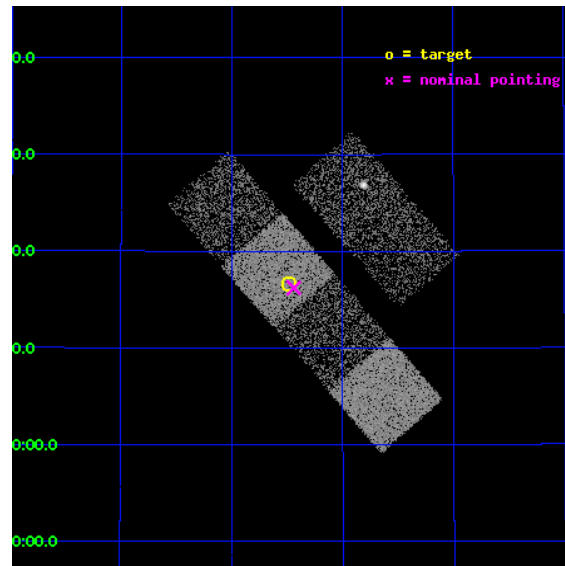
L2 Processing Date : Sep 14 2012

## 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

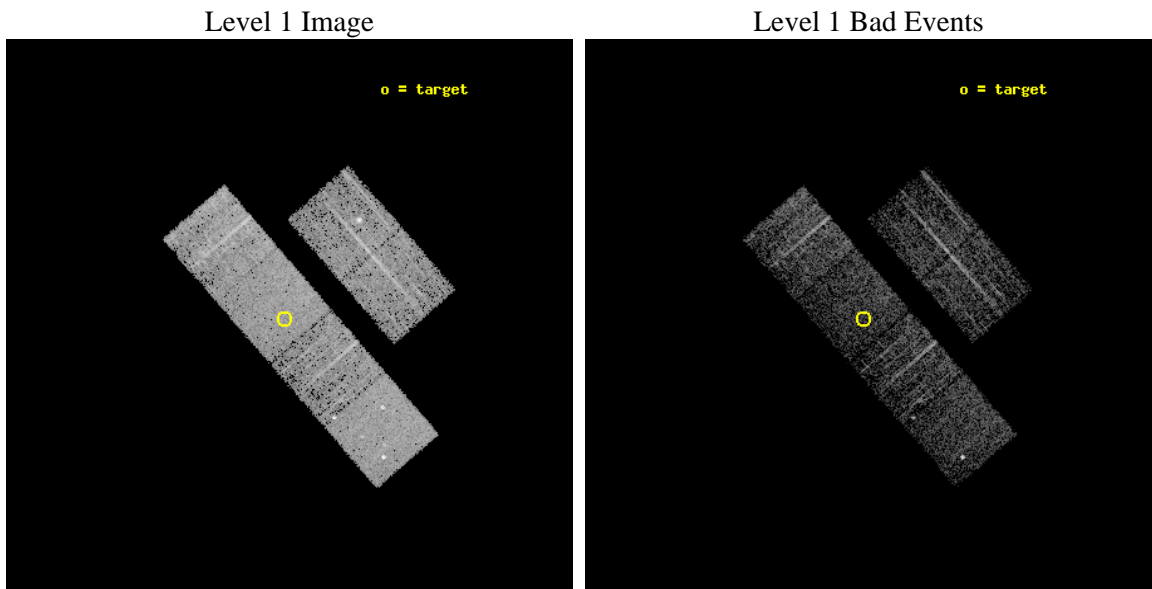
seq_num	700307	Sequence number
obs_id	2117	Observation id
title	UNDERSTANDING THE NATURE OF ROSAT BFS	Proposal title
observer	DR. ILARIA CAGNONI	Principal investigator
object	1WGA_J0951.4+3916	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	147.869583	Observer's specified target RA [deg]
dec_targ	39.276889	Observer's specified target Dec [deg]
ra_nom	147.85978407401	Nominal RA [deg]
dec_nom	39.270540845631	Nominal Dec [deg]
roll_nom	228.97043466268	Nominal Roll [deg]
revision	3	Processing version of data
ontime	2678.321088329	Sum of GTIs [s]
livetime	2644.4065740172	Livetime [s]
ontime2	2678.3621283323	Sum of GTIs [s]
ontime3	2678.1979483962	Sum of GTIs [s]
ontime5	2678.2800283879	Sum of GTIs [s]
ontime6	2678.2389883995	Sum of GTIs [s]
ontime7	2678.321088329	Sum of GTIs [s]
ontime8	2674.91583848	Sum of GTIs [s]
l2events	29653	Number of level 2 events



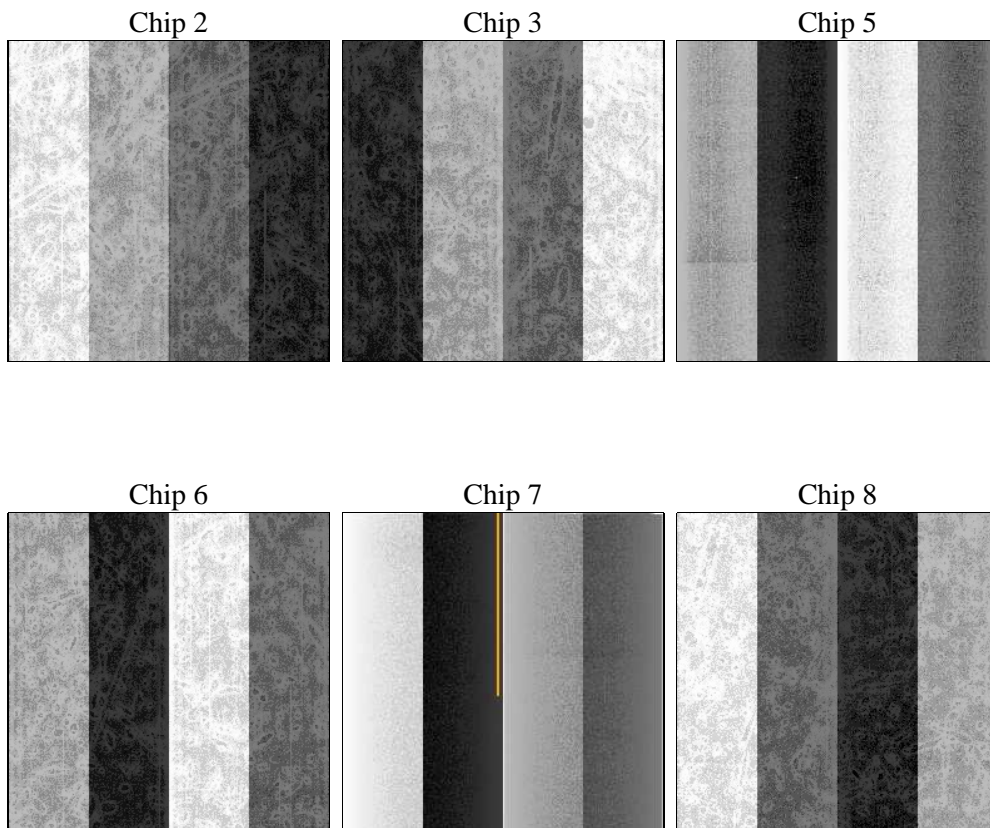
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	2678.321088329	Sum of GTIs [s]
caldsver	4.5.1.1	&#160	ontime2	2678.3621283323	Sum of GTIs [s]
date	2012-09-14T06:24:54	Date and time of file creation	ontime3	2678.1979483962	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	2678.2800283879	Sum of GTIs [s]
			ontime6	2678.2389883995	Sum of GTIs [s]
			ontime7	2678.321088329	Sum of GTIs [s]
			ontime8	2674.91583848	Sum of GTIs [s]
			l1events	134774	Number of level 1 events

### 2.1.4 Events

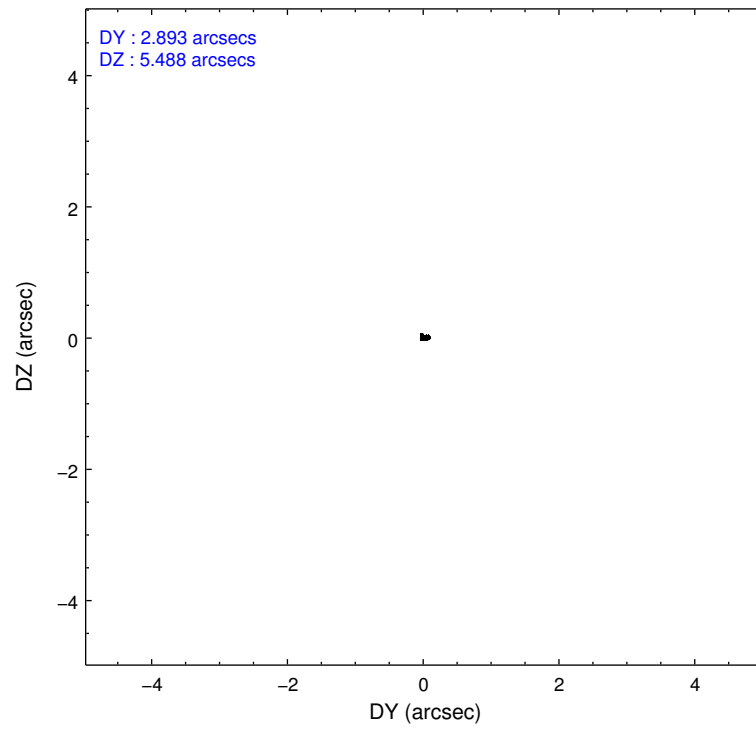
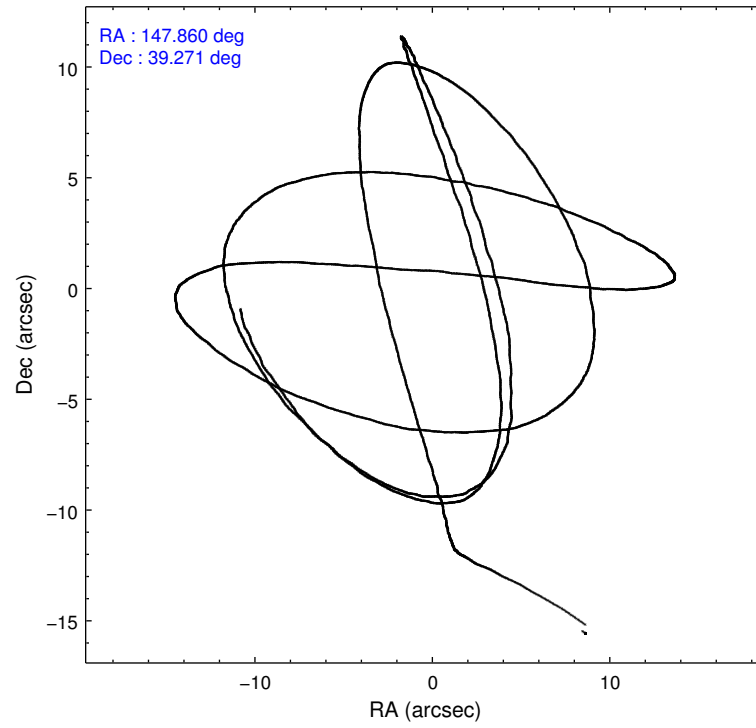
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	18588	19324	27294	18665	23502	27401
rejected events	16348	15962	14921	16137	13654	20963
rejected %	87%	82%	54%	86%	58%	76%

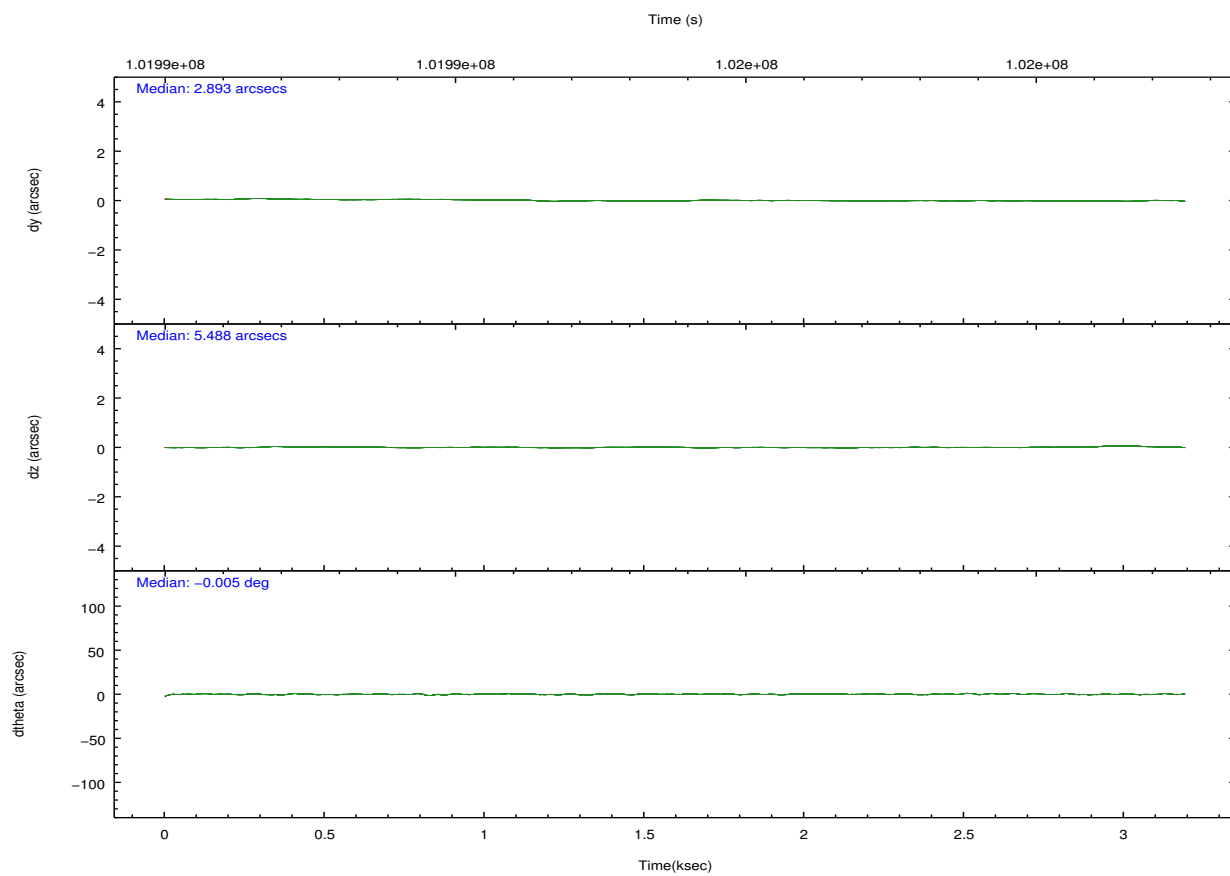
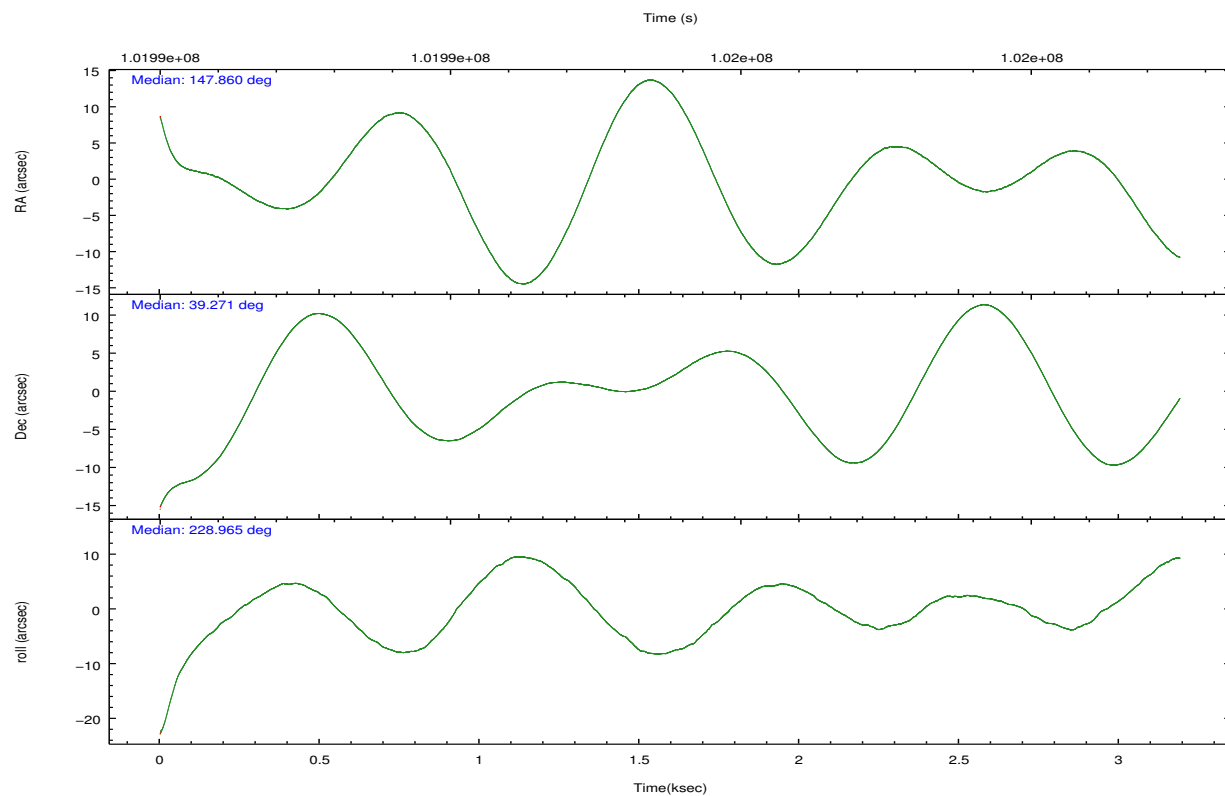
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	920	1782	1754	1053	985	2268
	4%	9%	6%	5%	4%	8%
grade 1 events	4	10	81	9	16	23
	0%	0%	0%	0%	0%	0%
grade 2 events	523	642	3492	609	1989	1210
	2%	3%	12%	3%	8%	4%
grade 3 events	192	227	523	178	854	862
	1%	1%	1%	0%	3%	3%
grade 4 events	191	226	524	215	905	762
	1%	1%	1%	1%	3%	2%
grade 5 events	641	669	2030	734	2179	930
	3%	3%	7%	3%	9%	3%
grade 6 events	419	498	6105	480	5137	1371
	2%	2%	22%	2%	21%	5%
grade 7 events	15698	15270	12785	15387	11437	19975
	84%	79%	46%	82%	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	147.866124	147.8597840740148	Subarray requested	NONE	NONE
[deg] Pointing Dec	39.297611	39.27054084563061	Alternating exposures requested	N	N
[deg] Pointing Roll	228.809834	228.9704346626826	[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)	101993353.184000	101992367.18249			
Observation start date	2001-03-26T11:28:09	2001-03-26T11:12:47			
[s] Observation end time (MET)	101996353.184000	101996794.67017			
Observation end date	2001-03-26T12:18:09	2001-03-26T12:26:34			
Read mode	TIMED	TIMED			

## 2.3 Aspect





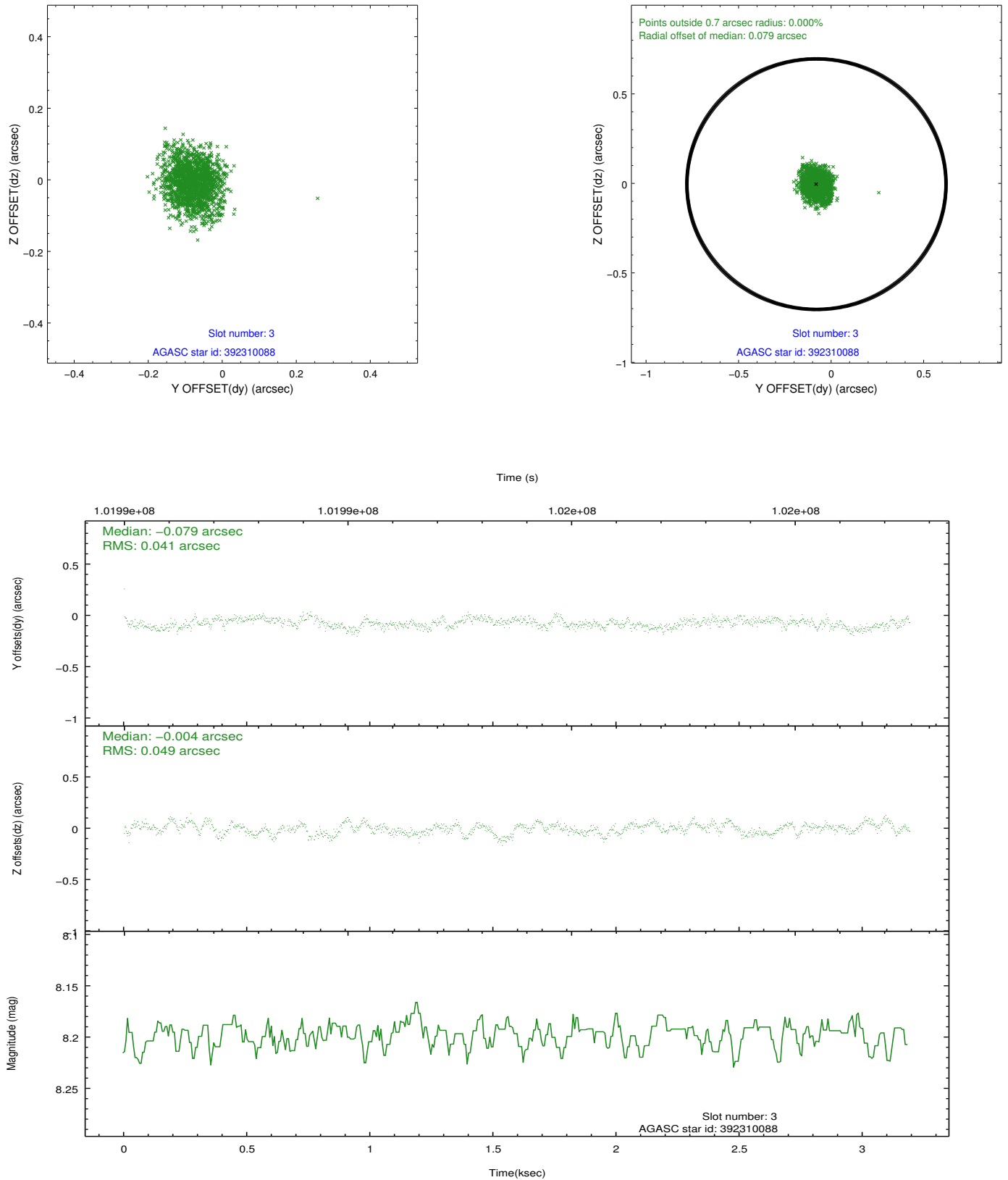
### Slot Statistics

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	779	-0.025	0.009	0.007	0.012	0.000000	0.000000	-755.53	-1726.57
1	FID	ACIS-S-4	7.20	779	-0.037	0.010	0.005	0.010	0.000000	0.000000	2156.79	179.92
2	FID	ACIS-S-5	7.24	779	0.032	-0.010	0.007	0.011	0.000000	0.000000	-1805.79	175.75
3	GUIDE	392310088	8.20	1549	-0.079	-0.004	0.068	0.111	147.943550	39.622430	-1022.01	-609.33
4	GUIDE	392309080	8.65	1557	0.087	-0.087	0.074	0.117	146.870719	39.102402	2347.74	-1640.82
5	GUIDE	392307632	8.70	1556	-0.050	0.012	0.079	0.125	148.679987	39.119172	-1020.55	2125.14
6	GUIDE	392308672	9.32	1556	0.108	-0.018	0.070	0.116	147.364505	39.161928	1285.73	-733.72
7	GUIDE	392305688	9.44	1556	-0.072	0.103	0.112	0.183	148.763689	39.246797	-1519.64	1994.23

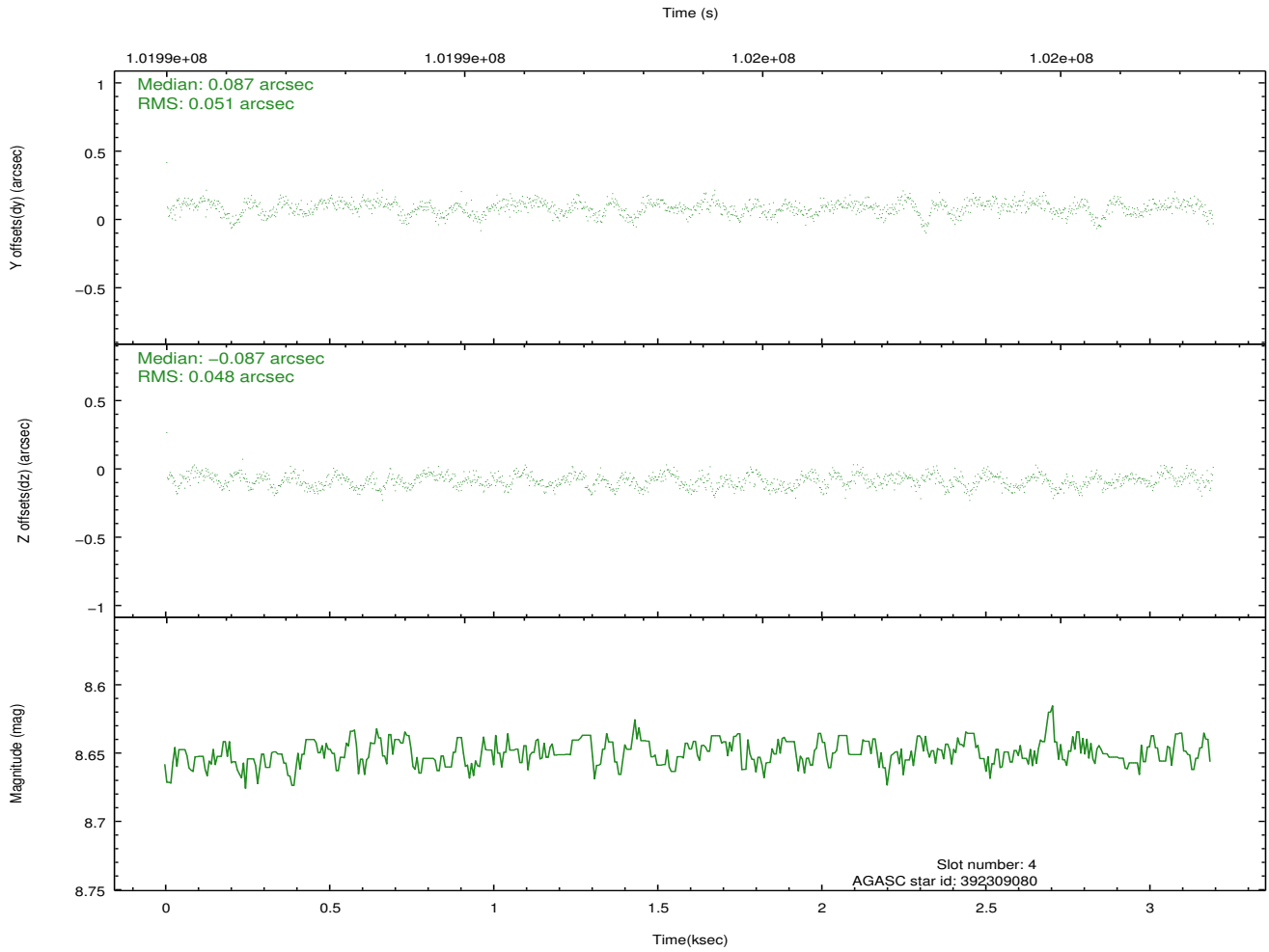
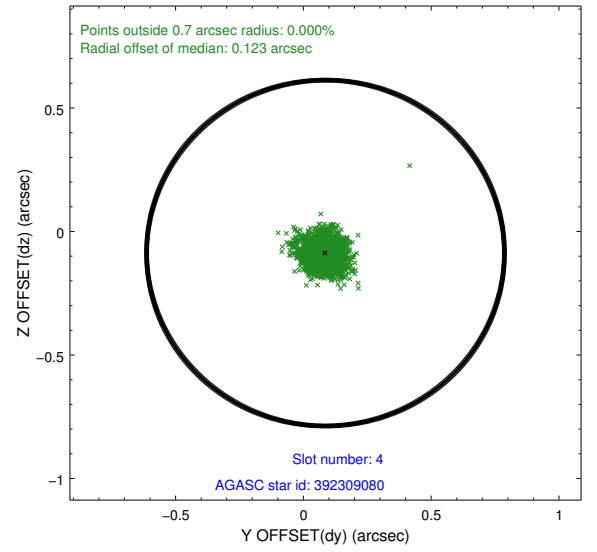
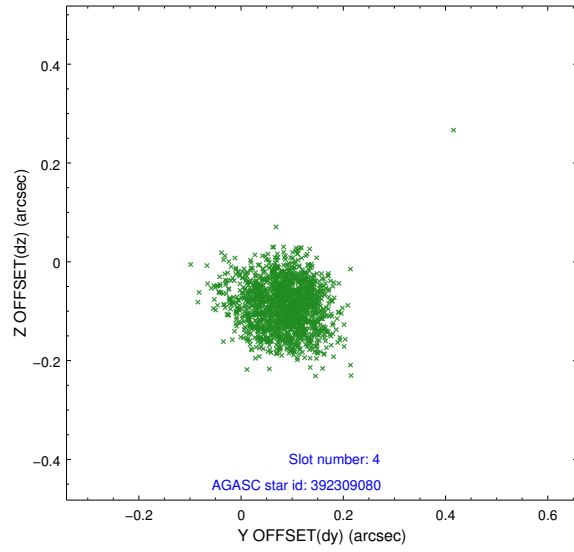


## 2.4 Star Slots

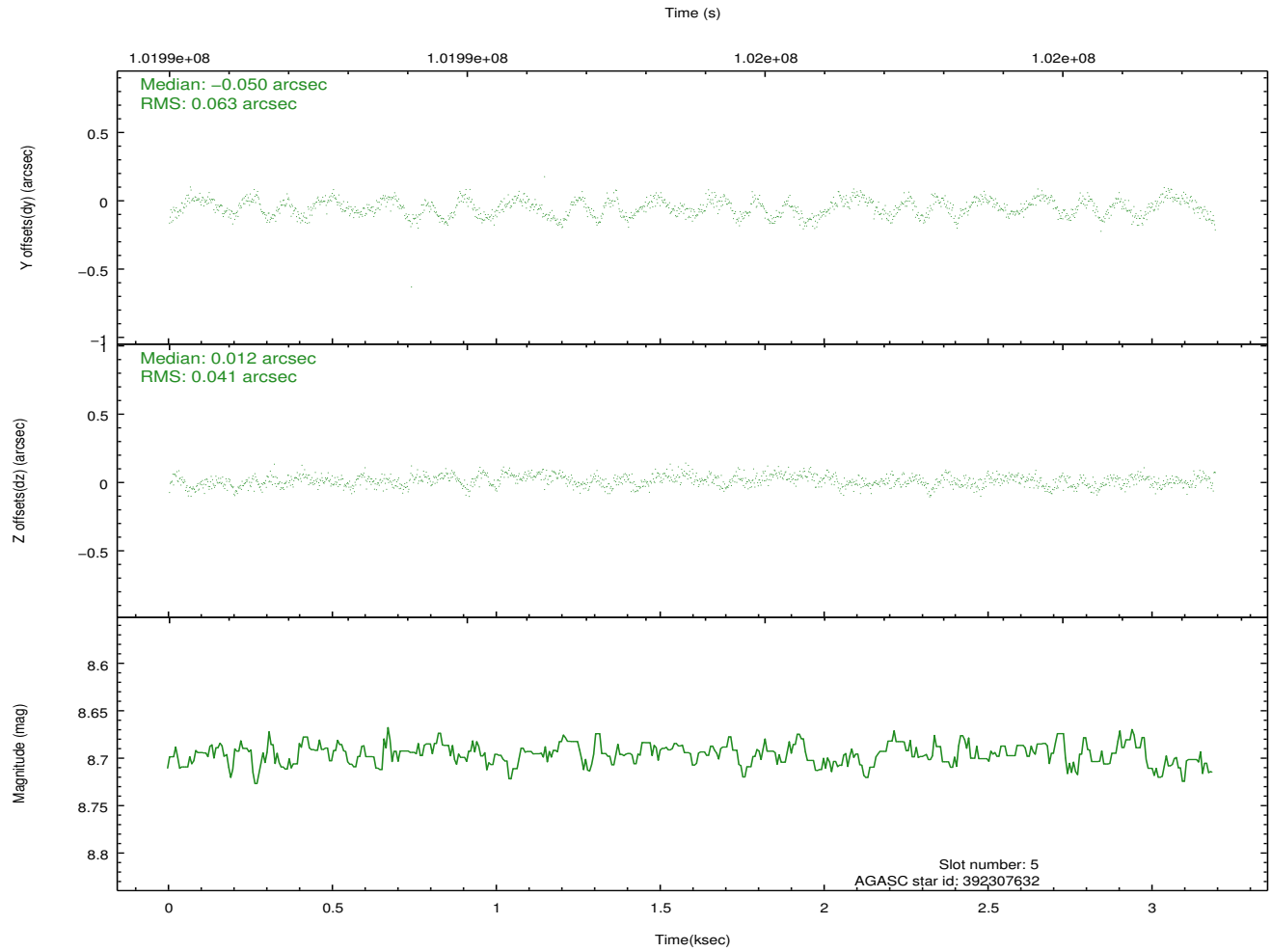
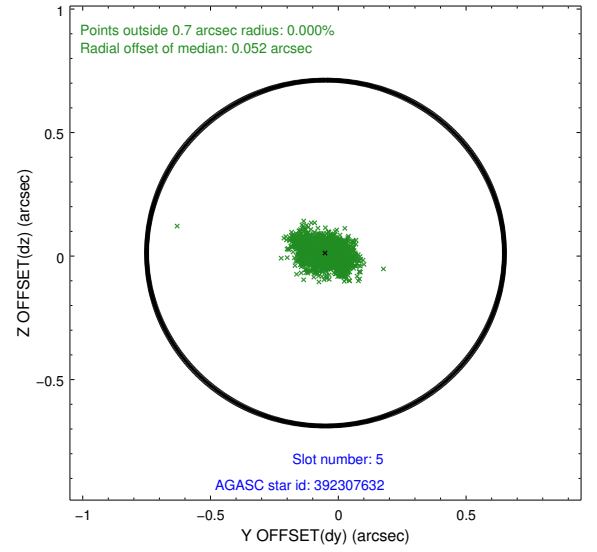
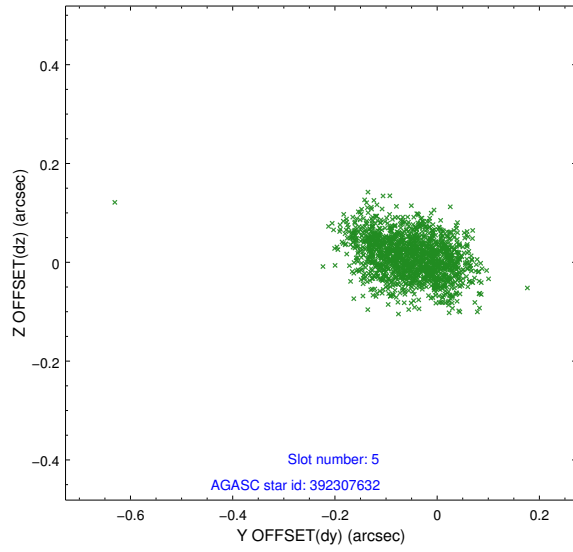
### 2.4.1 Slot 3



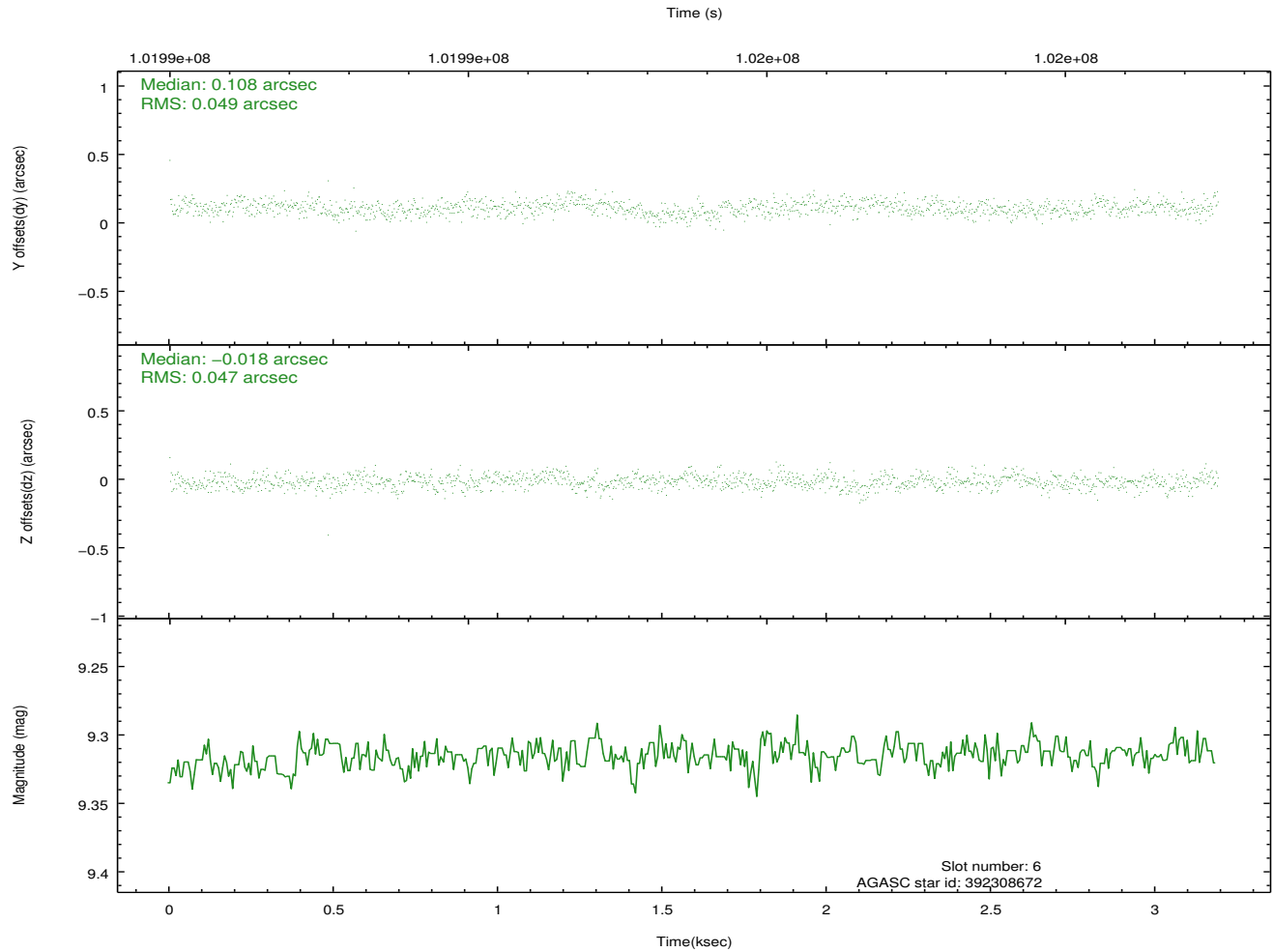
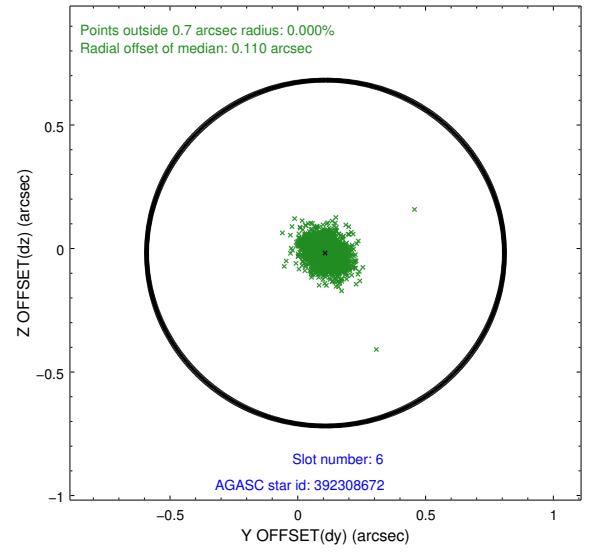
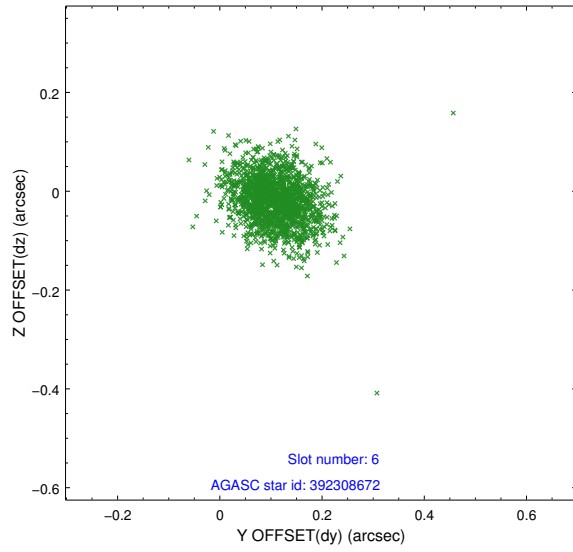
## 2.4.2 Slot 4



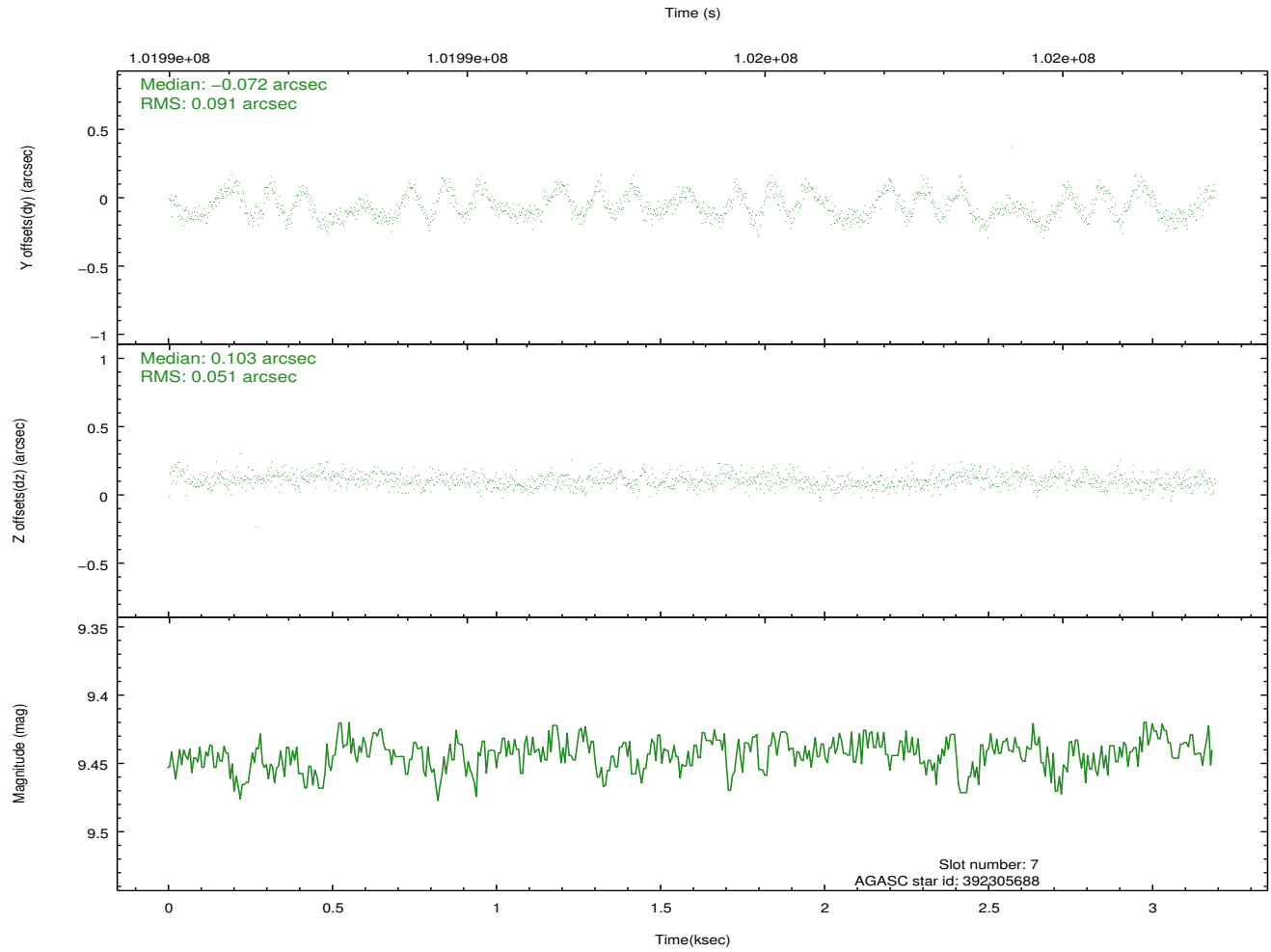
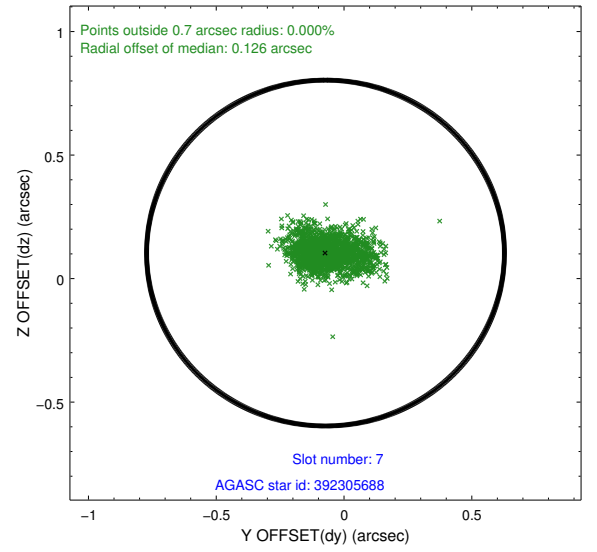
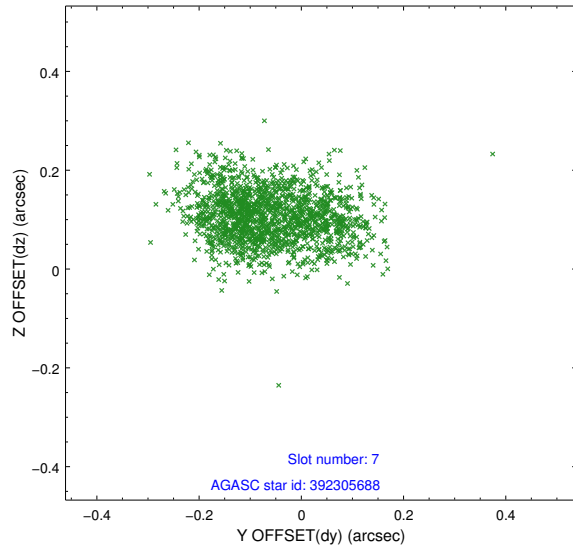
### 2.4.3 Slot 5



## 2.4.4 Slot 6

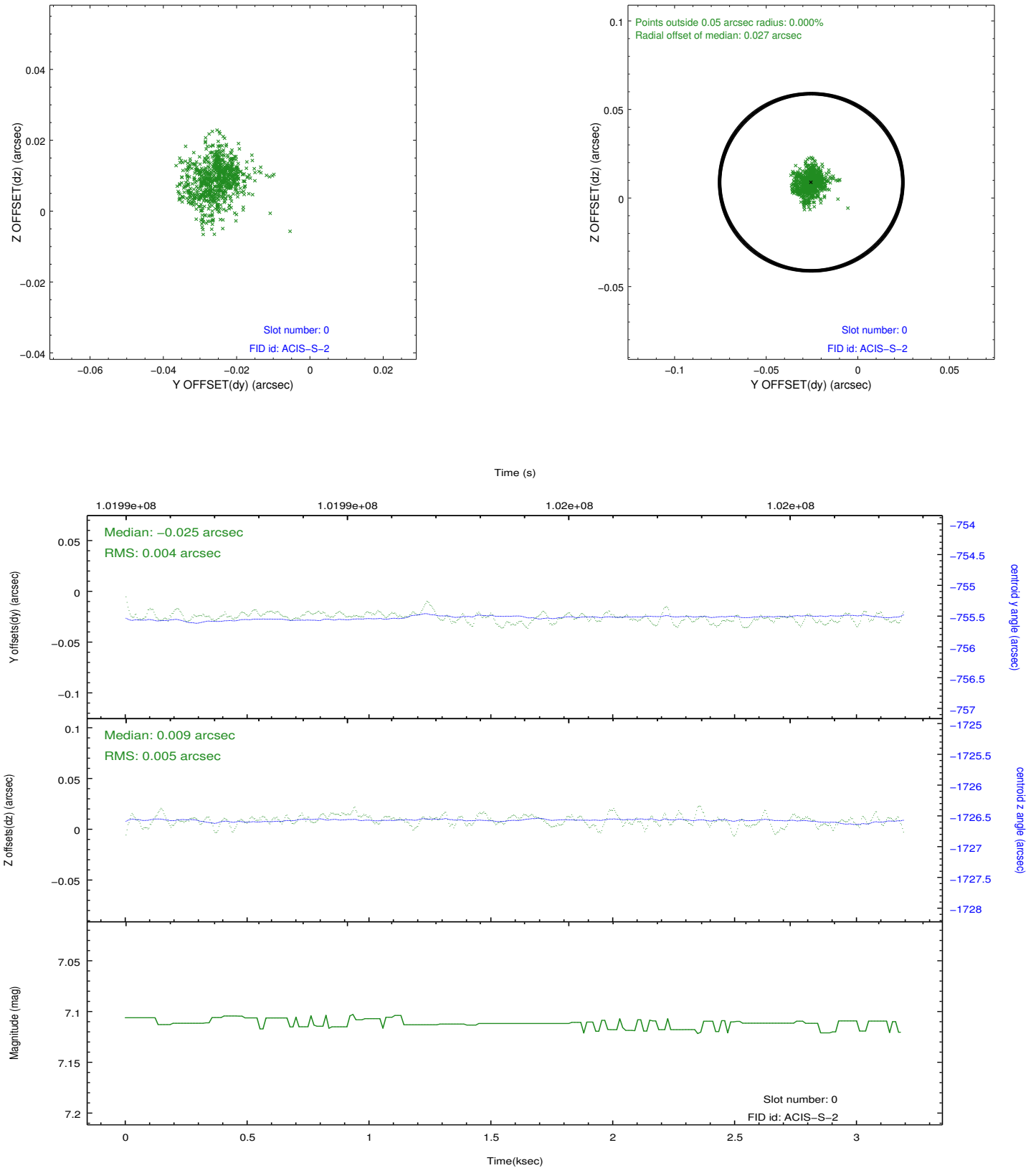


## 2.4.5 Slot 7

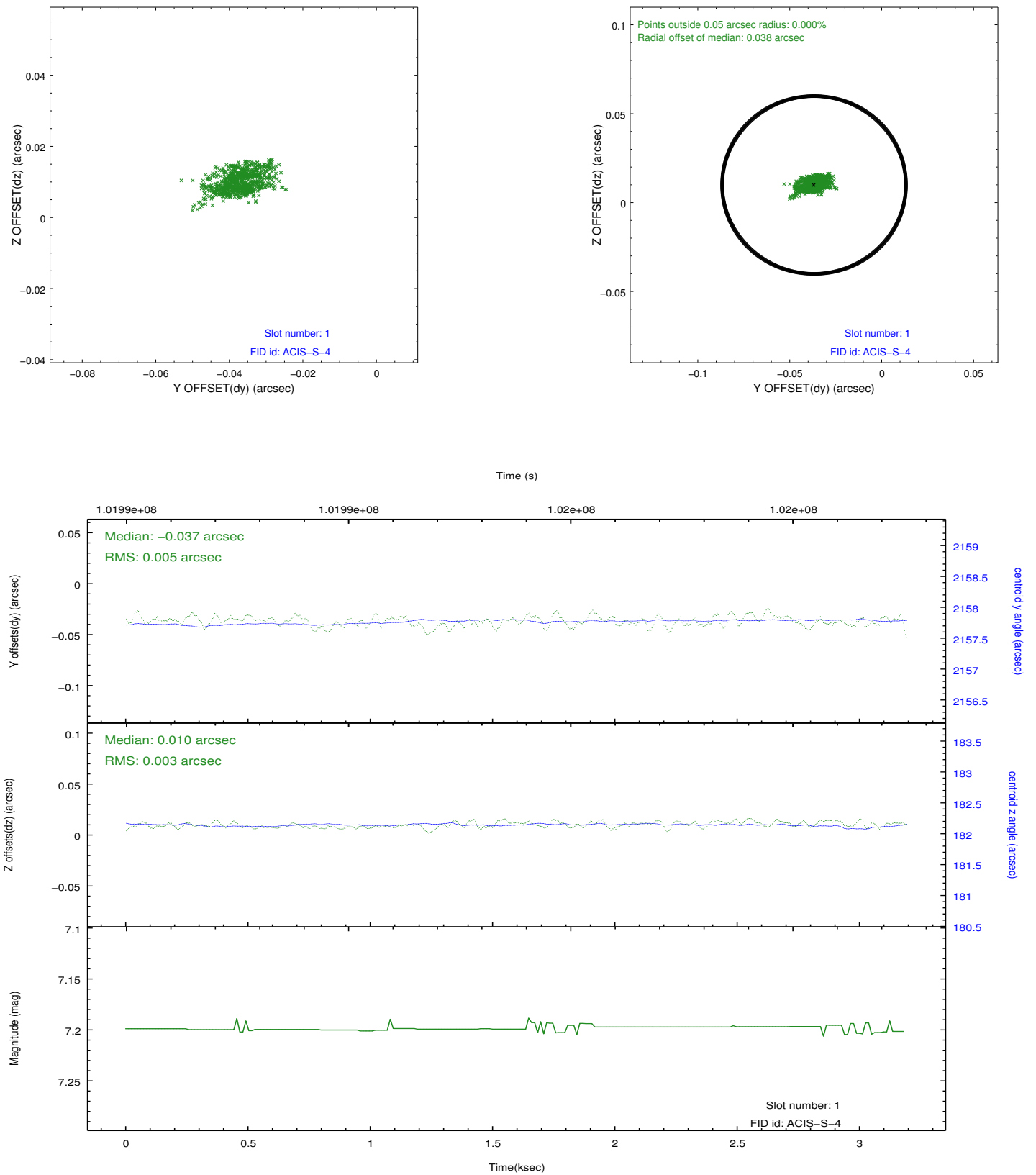


## 2.5 FID Slots

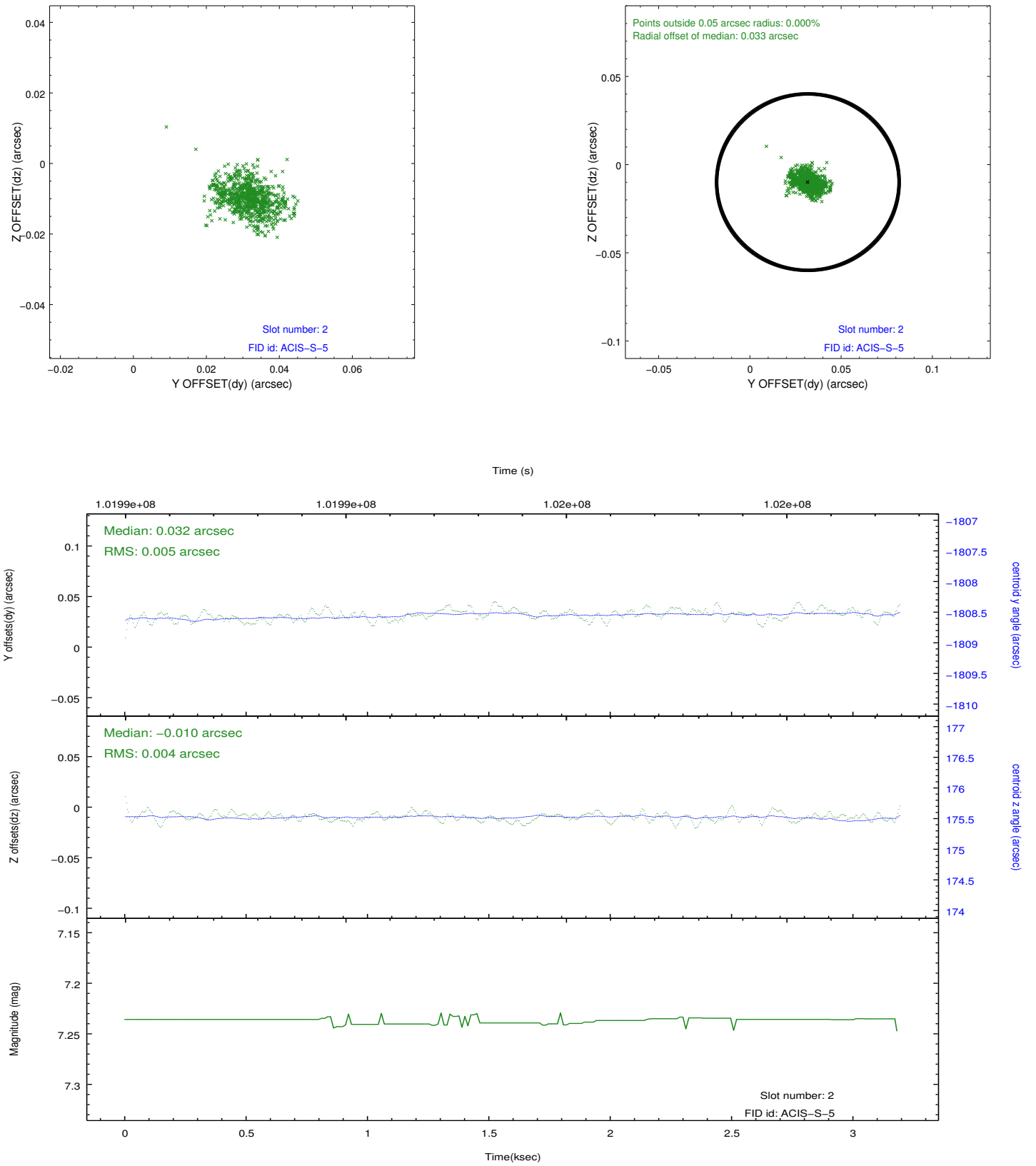
### 2.5.1 Slot 0



## 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)	2012.09.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.7

### A.2 Comments

Charge time for this ObsId remains at previous value of 2.7 ks although with the current processing the charge time would have been 2.68 ksec.