

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 13311 - L2 Version 1  
Chandra X-Ray Center

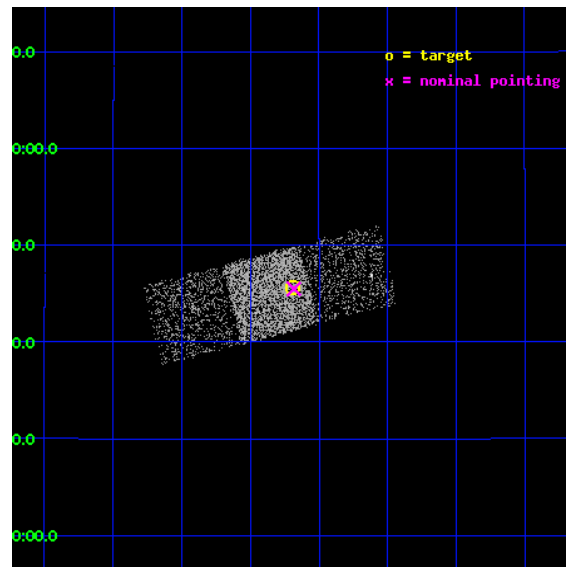
L2 Processing Date : May 15 2012

## 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

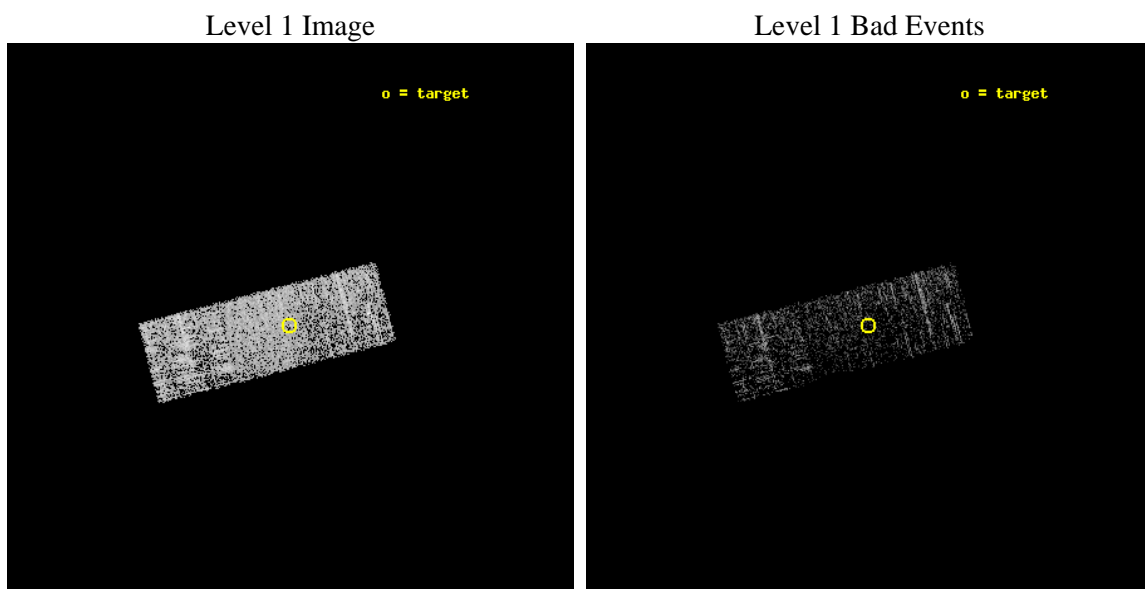
seq_num	702518	Sequence number
obs_id	13311	Observation id
title	A Large, Economical Snapshot Survey of the Most-Luminous Quasars from the Sloan Digital Sky Survey	Proposal title
observer	Professor Gordon Garmire	Principal investigator
object	SDSS J1604+1645	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	241.172917	Observer's specified target RA [deg]
dec_targ	16.760639	Observer's specified target Dec [deg]
ra_nom	241.1707586961	Nominal RA [deg]
dec_nom	16.758285946269	Nominal Dec [deg]
roll_nom	165.50723318866	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1577.6038168073	Sum of GTIs [s]
livetime	1556.9912615256	Livetime [s]
ontime6	1577.562776804	Sum of GTIs [s]
ontime7	1577.6038168073	Sum of GTIs [s]
ontime8	1577.5217368007	Sum of GTIs [s]
l2events	6632	Number of level 2 events



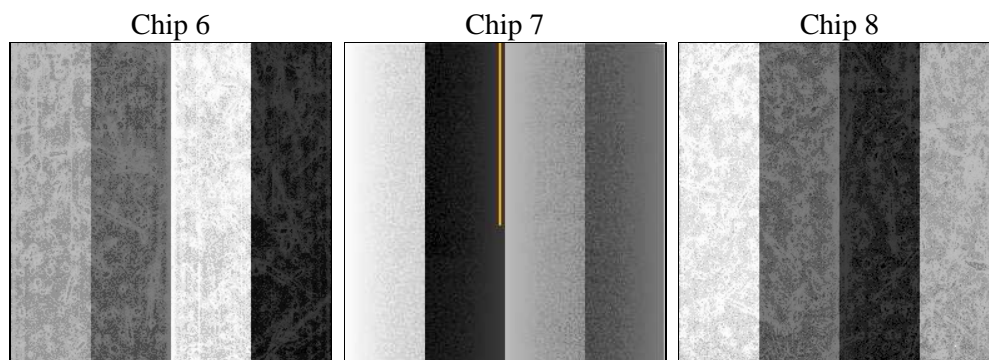
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	1500.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	1577.6038168073	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime6	1577.562776804	Sum of GTIs [s]
date	2012-05-15T13:27:03	Date and time of file creation	ontime7	1577.6038168073	Sum of GTIs [s]
revision	1	Processing version of data	ontime8	1577.5217368007	Sum of GTIs [s]
			l1events	29207	Number of level 1 events

### 2.1.4 Events

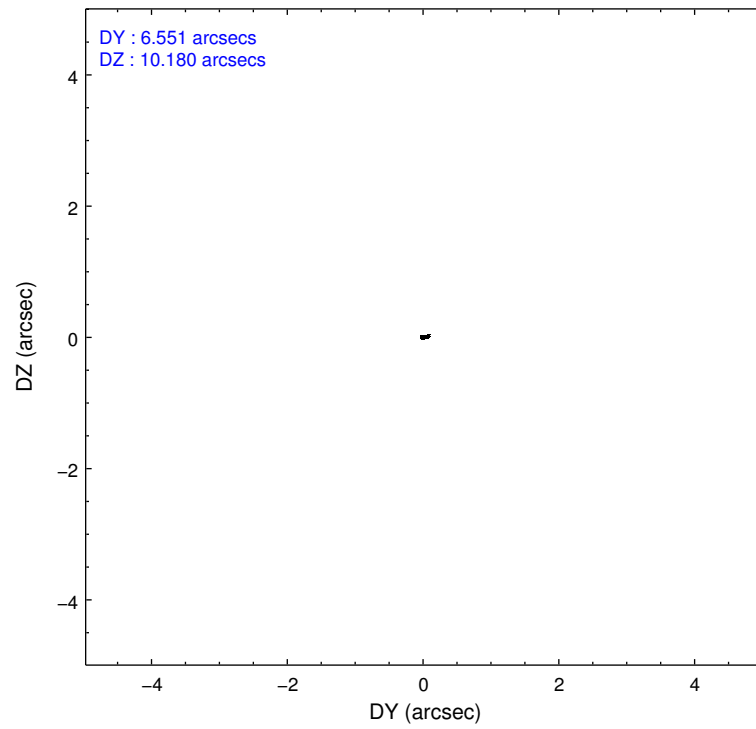
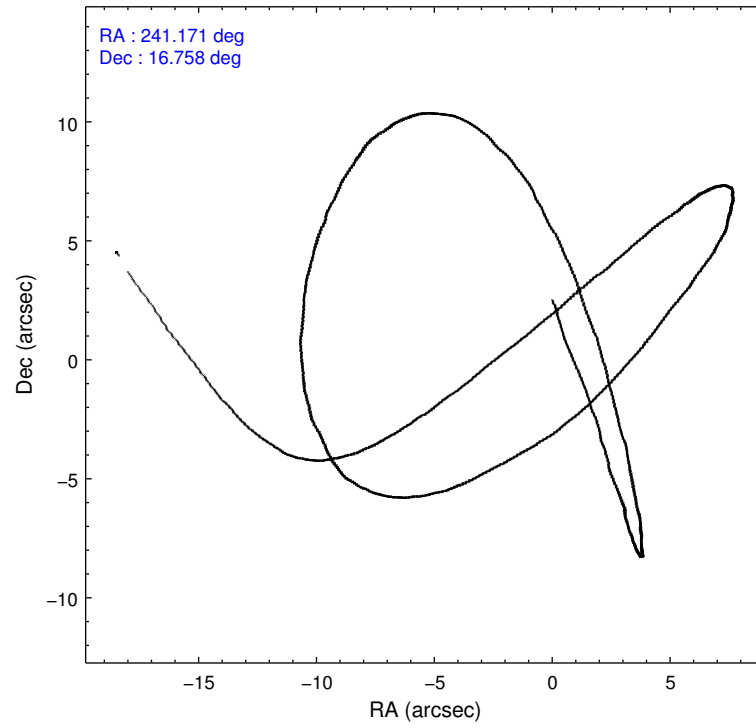
	ccd 6	ccd 7	ccd 8
level 1 events	8714	9912	10581
rejected events	7529	5239	7619
rejected %	86%	52%	72%

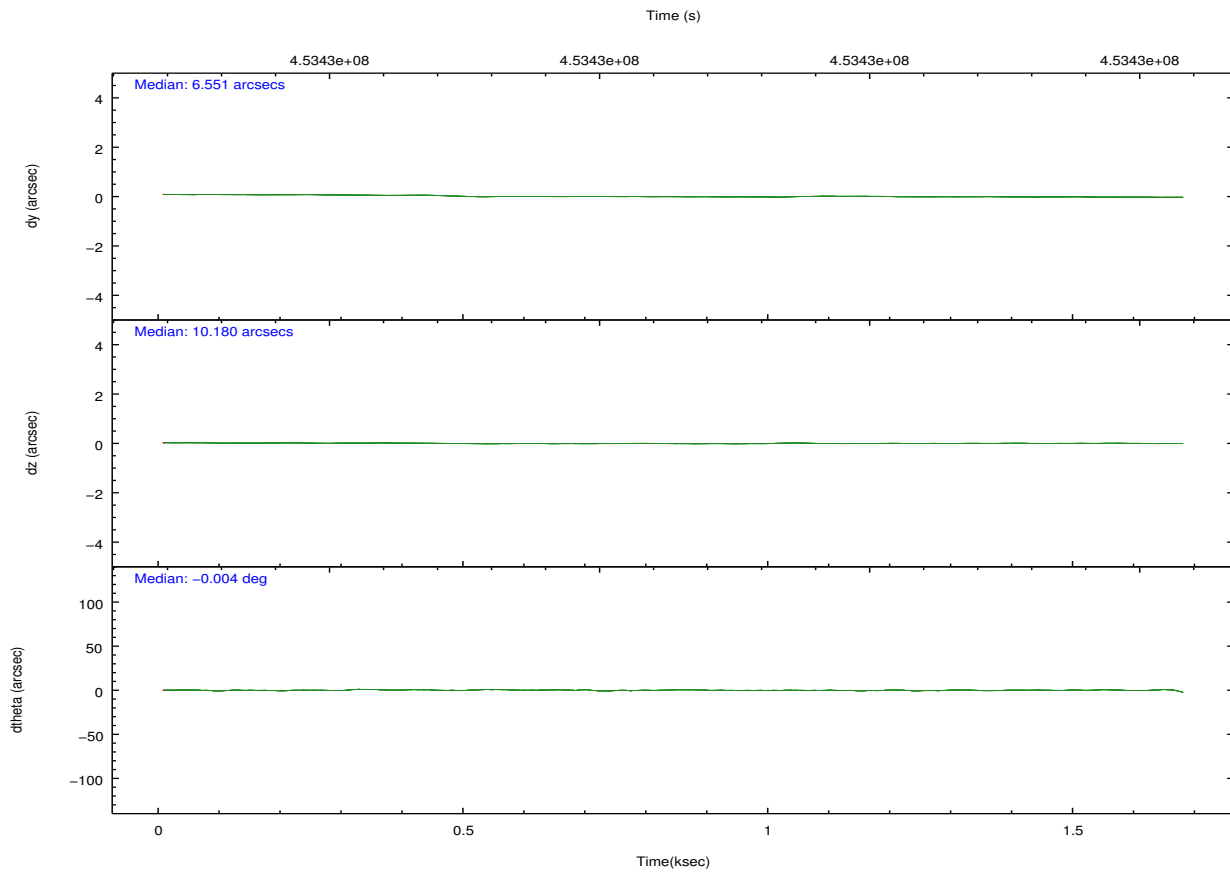
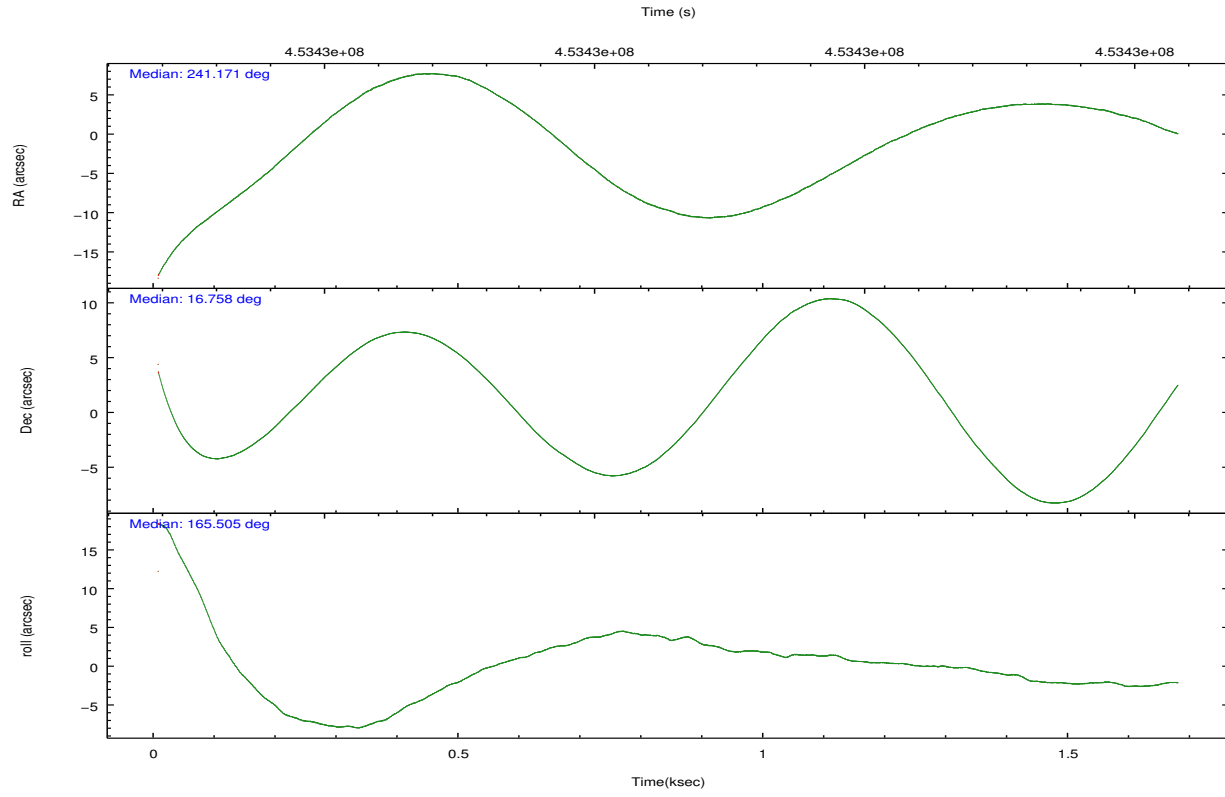
	ccd 6	ccd 7	ccd 8
grade 0 events	491	440	843
	5%	4%	7%
grade 1 events	8	16	11
	0%	0%	0%
grade 2 events	246	976	755
	2%	9%	7%
grade 3 events	115	410	246
	1%	4%	2%
grade 4 events	116	409	249
	1%	4%	2%
grade 5 events	351	1005	532
	4%	10%	5%
grade 6 events	225	2454	874
	2%	24%	8%
grade 7 events	7162	4202	7071
	82%	42%	66%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-678	ACIS-678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	241.198022	241.1707586960996	Subarray requested	NONE	NONE
[deg] Pointing Dec	16.766245	16.75828594626878	Alternating exposures requested	N	N
[deg] Pointing Roll	165.342614	165.5072331886623	[s] Primary exposure time	0.000000	3.1
[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)	453428469.184000	453427263.75131			
Observation start date	2012-05-15T00:20:03	2012-05-15T00:01:03			
[s] Observation end time (MET)	453429969.184000	453430934.27651			
Observation end date	2012-05-15T00:45:03	2012-05-15T01:02:14			
Read mode	TIMED	TIMED			

## 2.3 Aspect





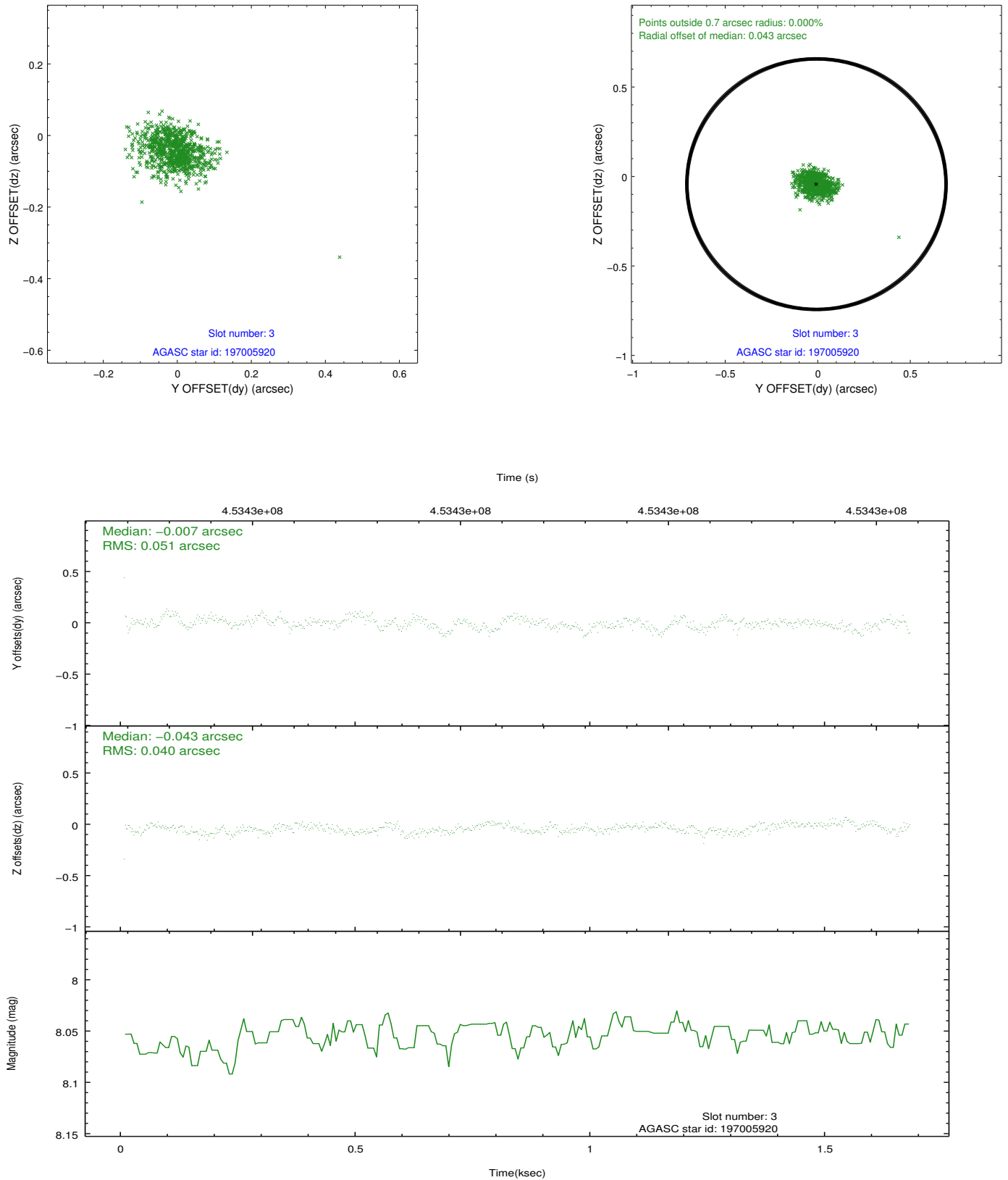
Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.01	409	-0.076	-0.018	0.009	0.016	0.000000	0.000000	-759.37	-1731.40
1	FID	ACIS-S-4	7.10	409	0.156	0.041	0.009	0.016	0.000000	0.000000	2152.34	173.08
2	FID	ACIS-S-5	7.13	409	-0.110	-0.015	0.009	0.016	0.000000	0.000000	-1807.20	171.16
3	GUIDE	197005920	8.05	817	-0.007	-0.043	0.066	0.113	241.710218	16.352436	-2087.70	991.05
4	GUIDE	197006616	9.10	817	0.146	-0.087	0.108	0.173	241.752996	16.526390	-2072.30	348.99
5	GUIDE	197534144	9.00	817	-0.000	0.090	0.088	0.143	240.771626	16.972716	1607.24	-349.19
6	GUIDE	197658520	8.94	812	-0.042	0.143	0.099	0.153	242.022290	17.229051	-2315.29	-2336.19
7	GUIDE	197002248	9.24	814	-0.091	-0.090	0.090	0.145	240.611279	16.330304	1562.66	2024.87

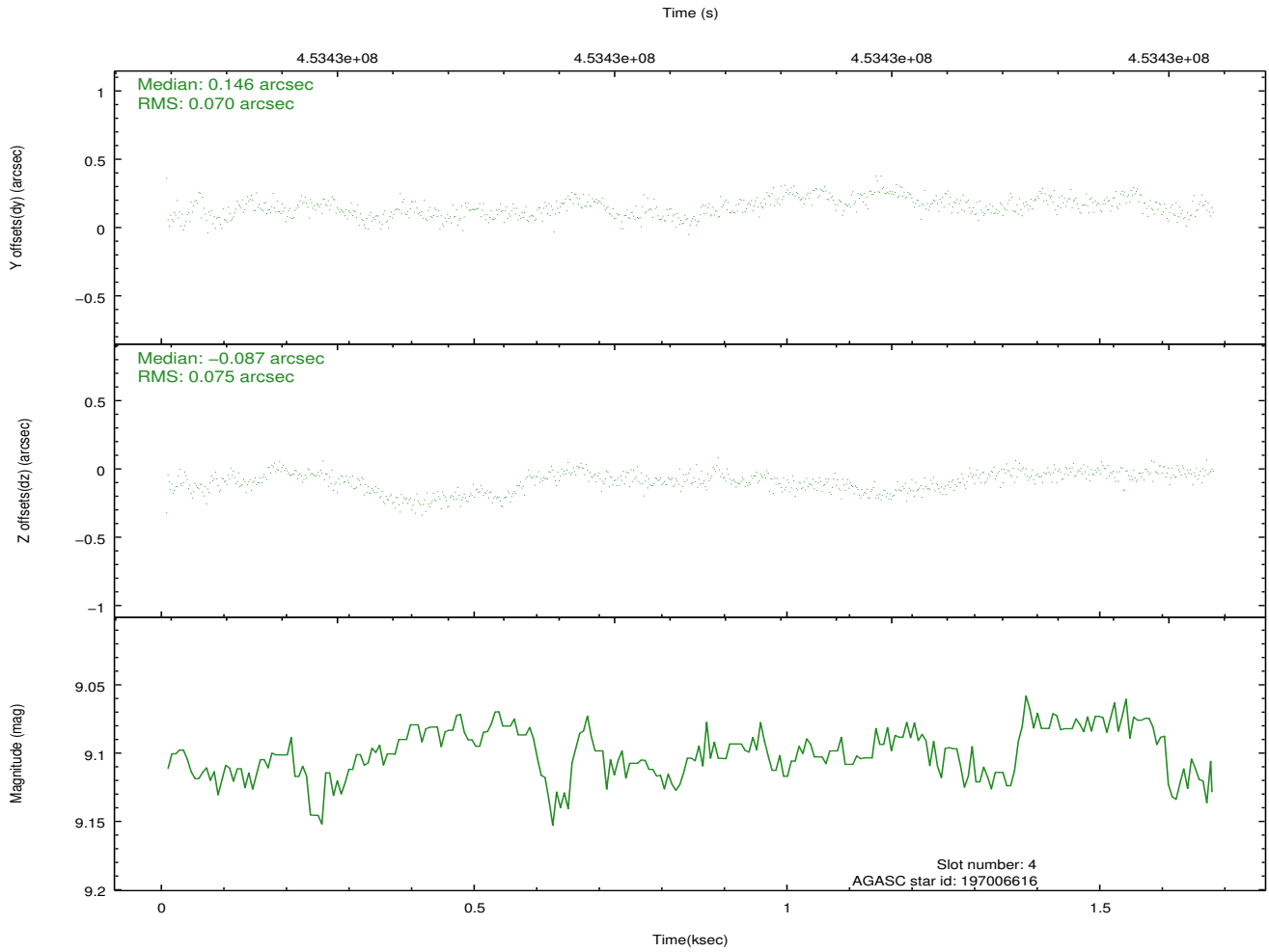
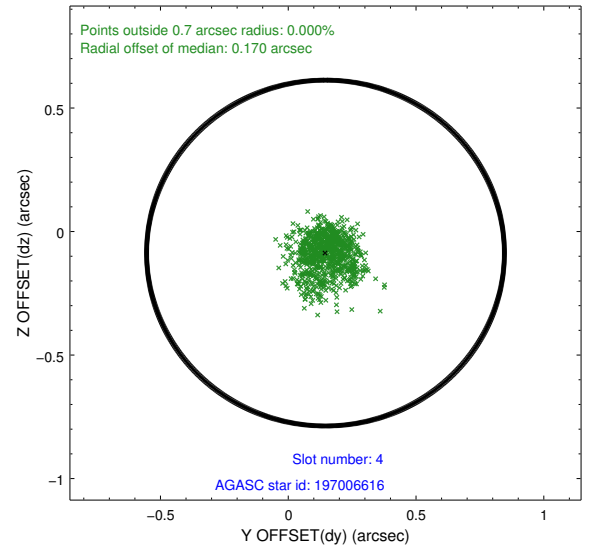
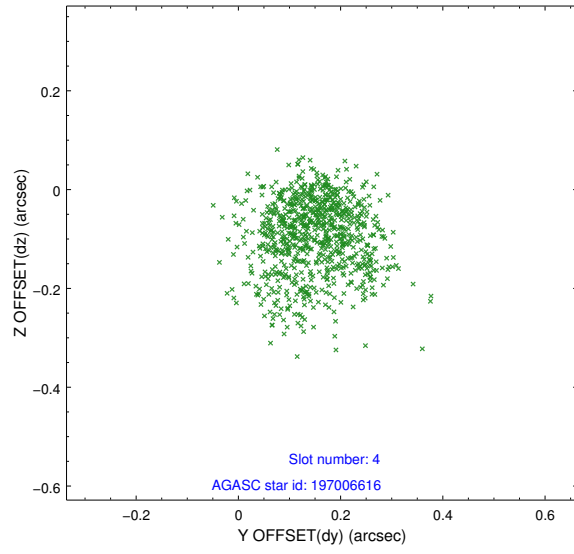


## 2.4 Star Slots

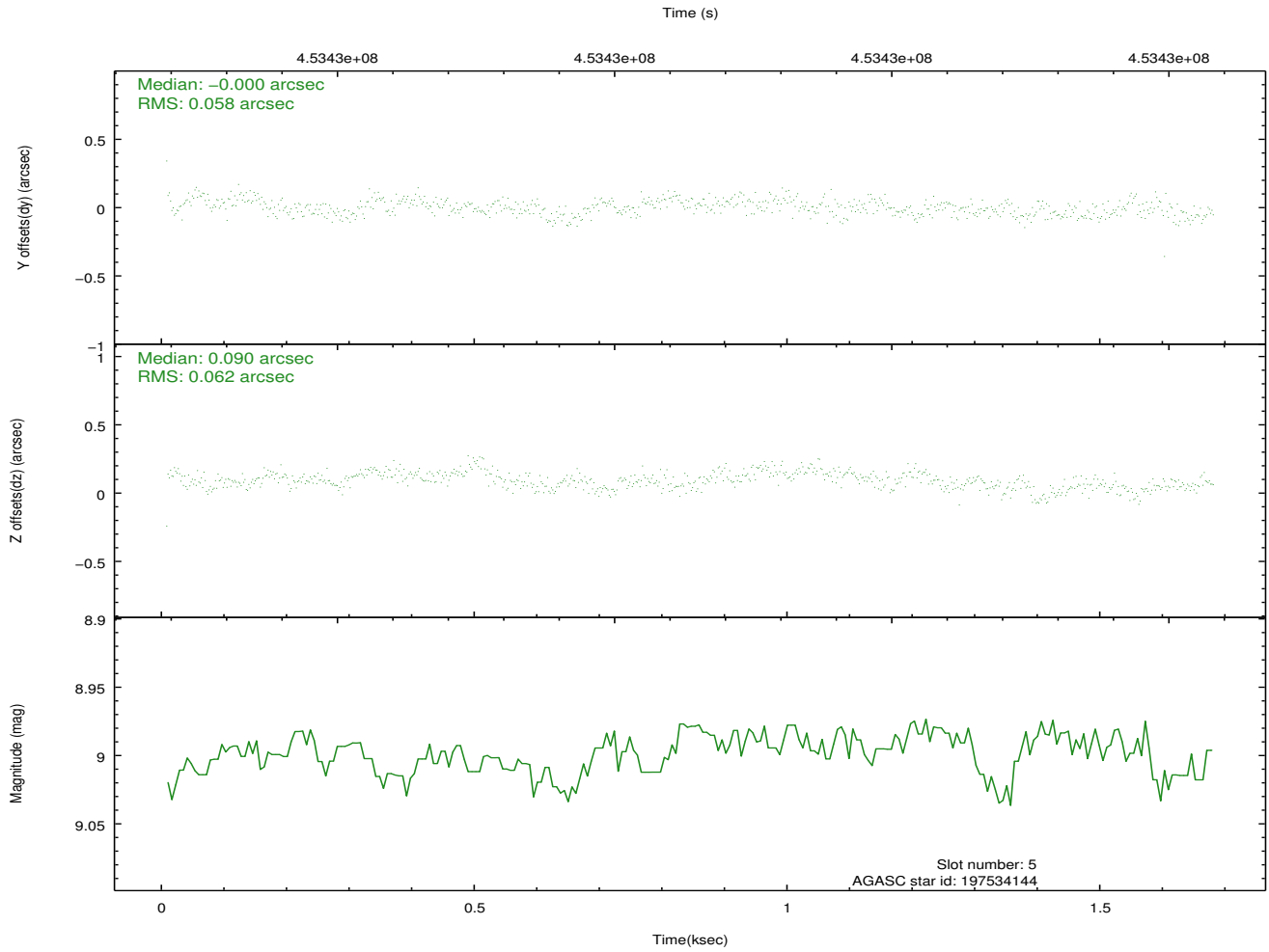
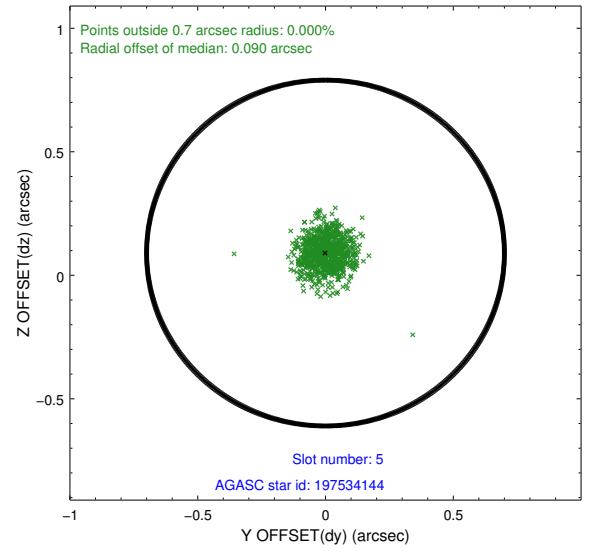
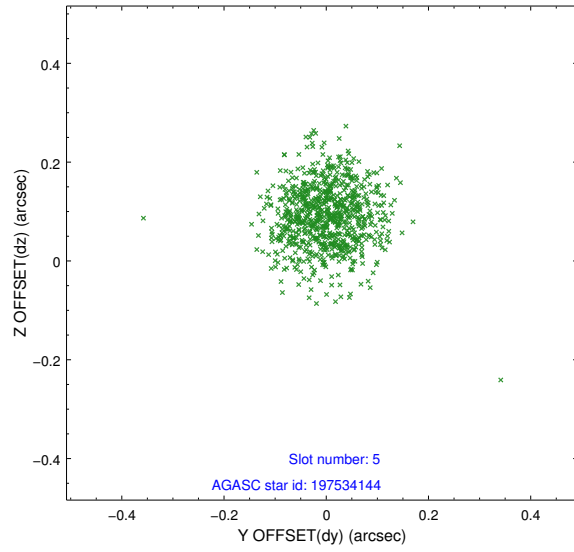
### 2.4.1 Slot 3



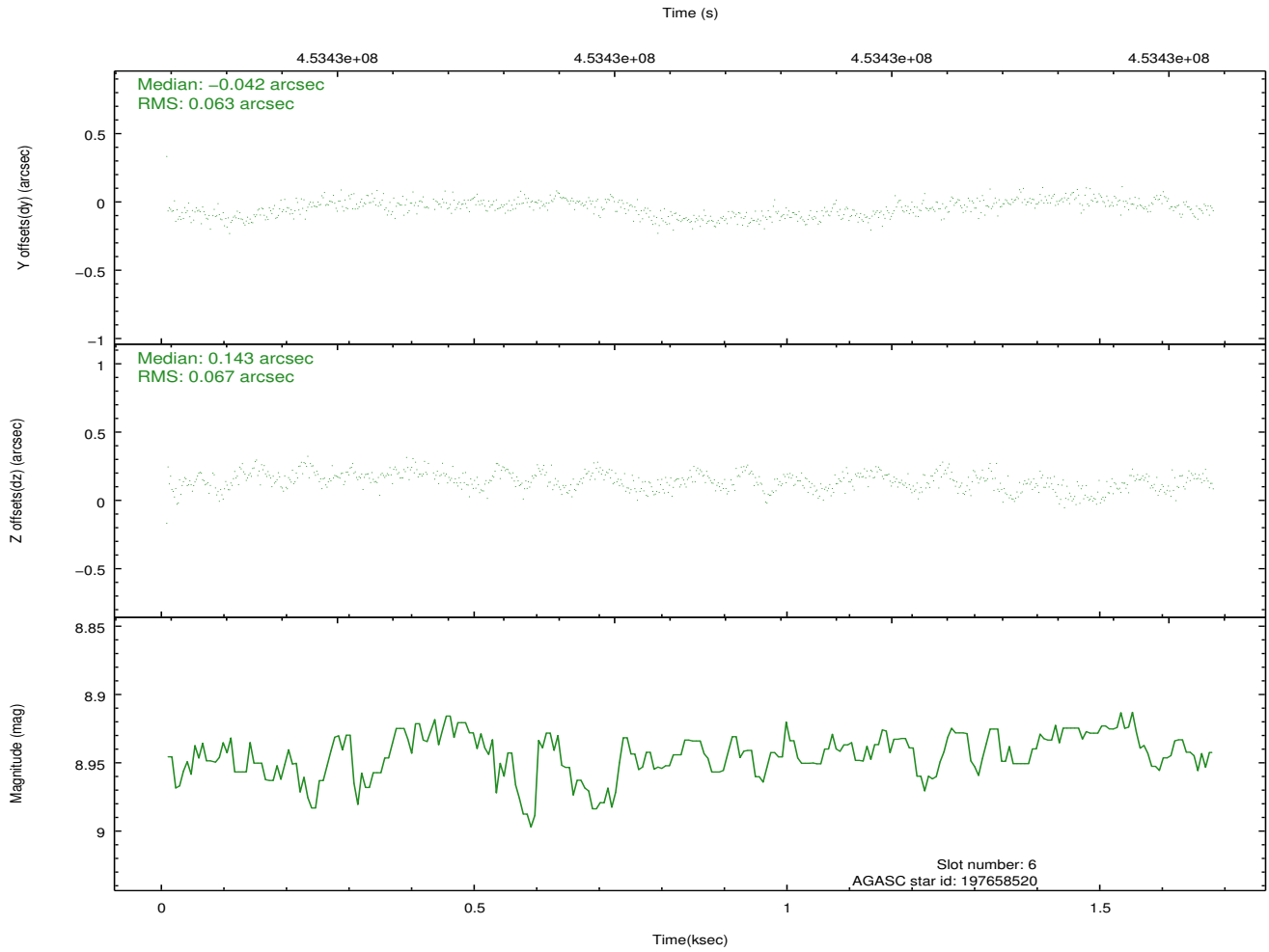
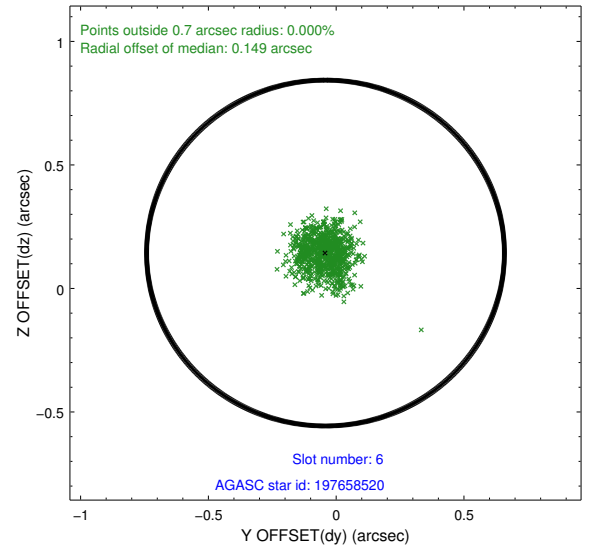
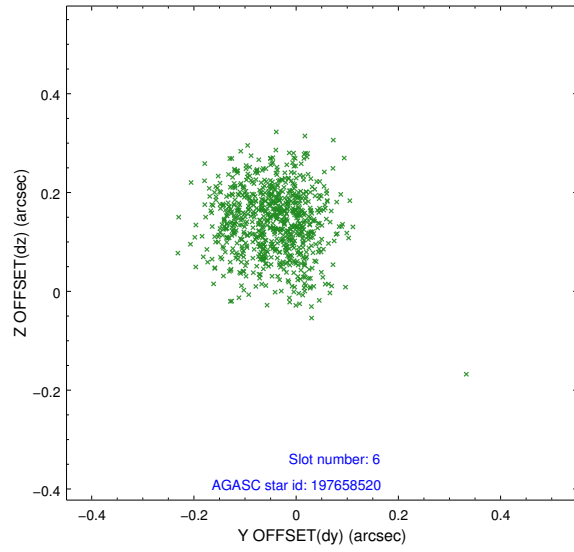
## 2.4.2 Slot 4



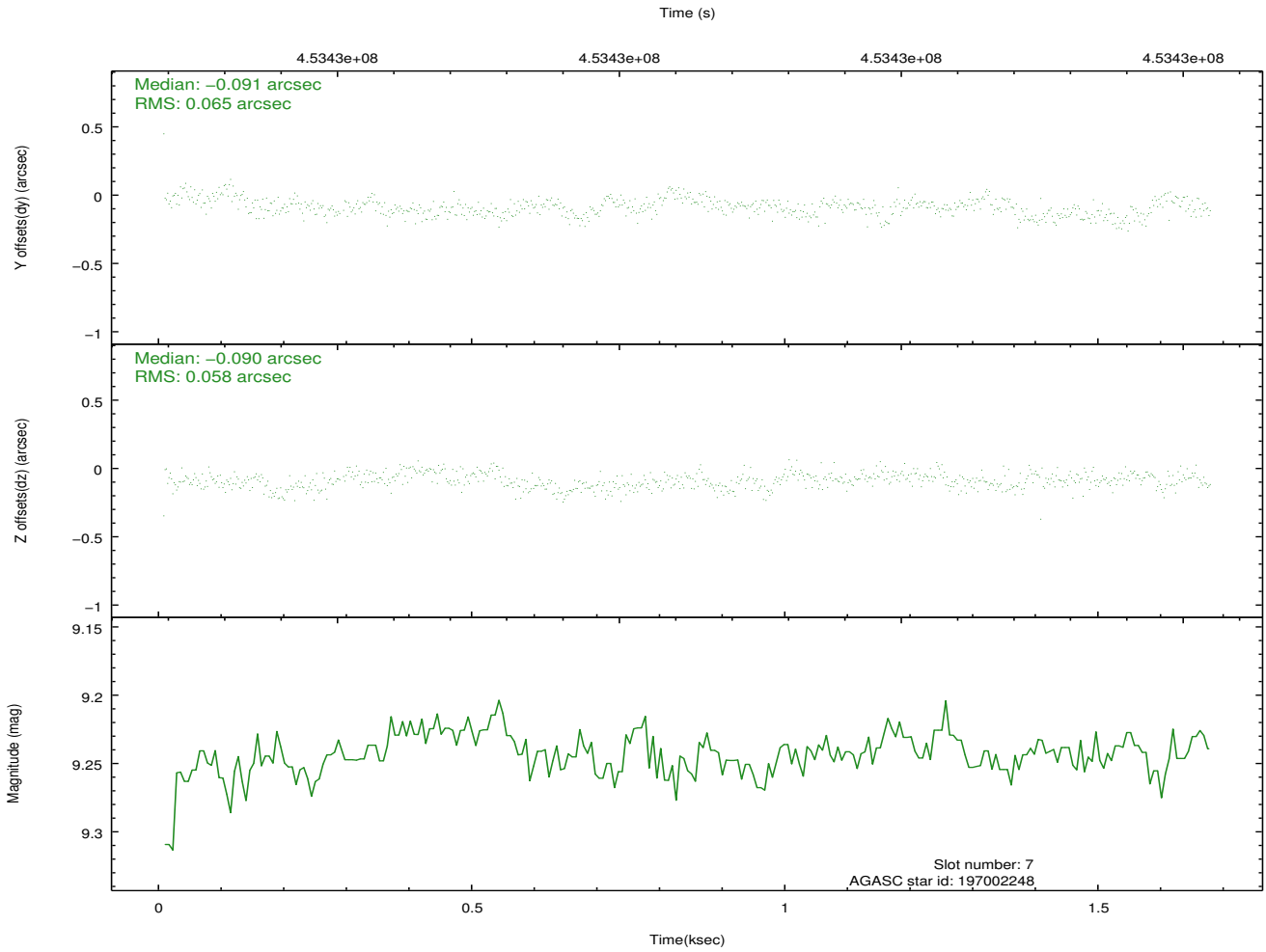
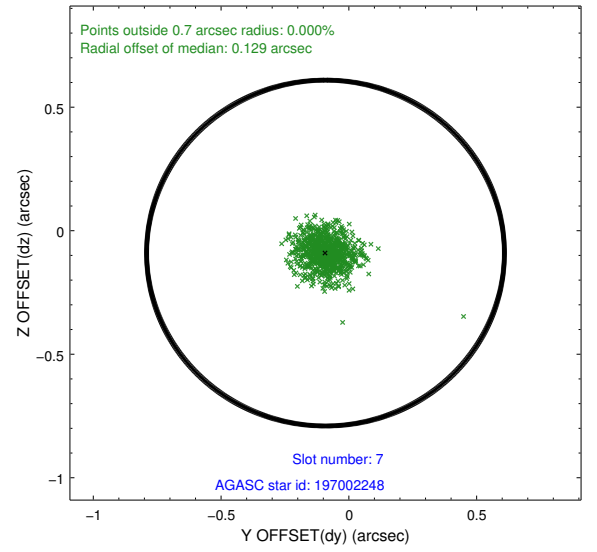
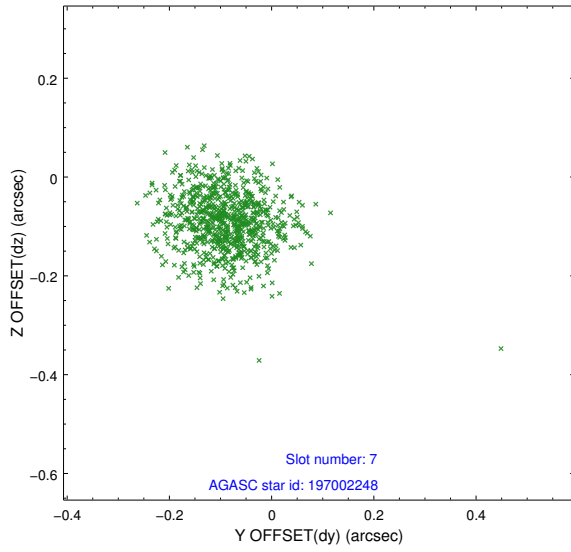
### 2.4.3 Slot 5



## 2.4.4 Slot 6

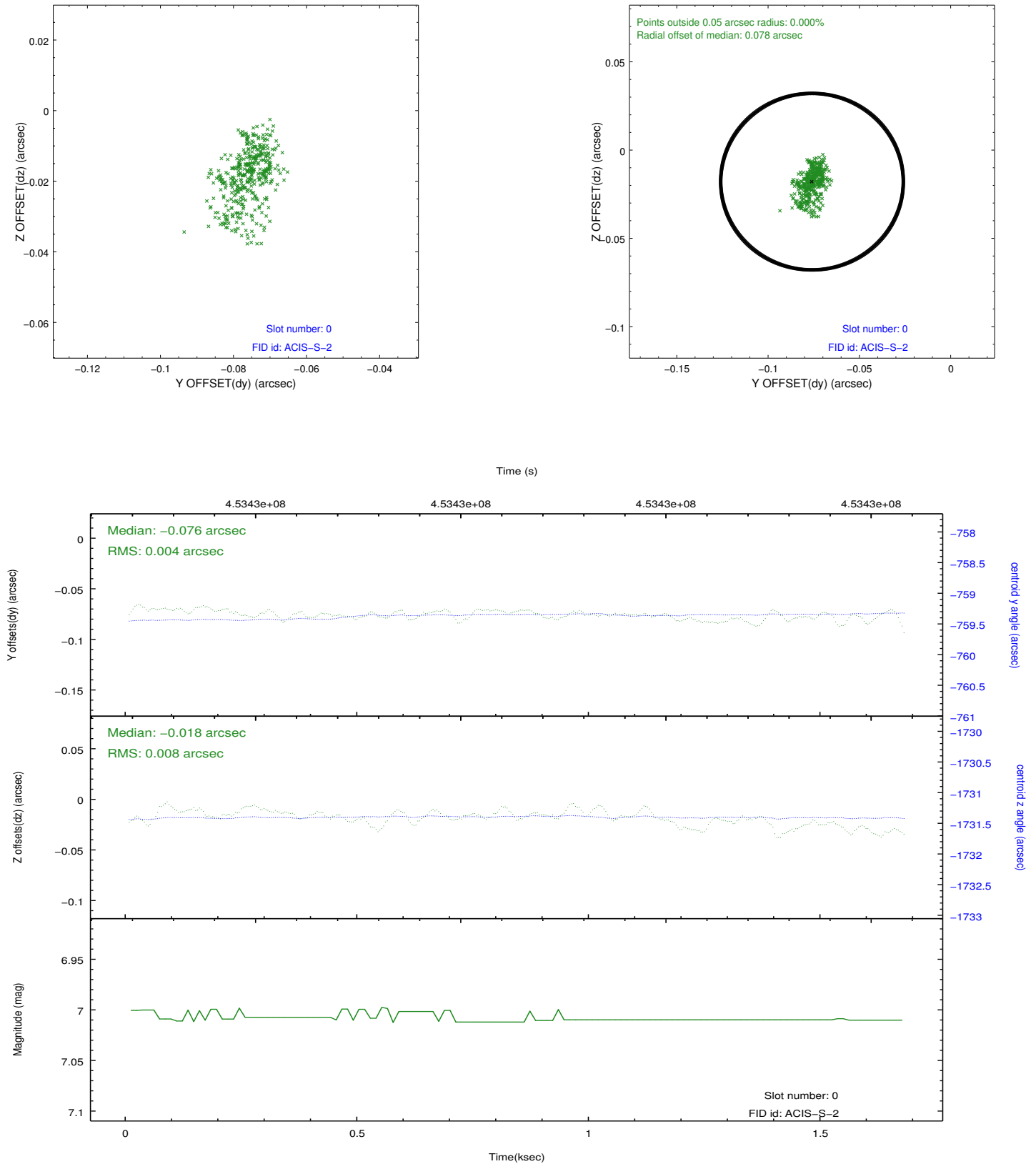


### 2.4.5 Slot 7

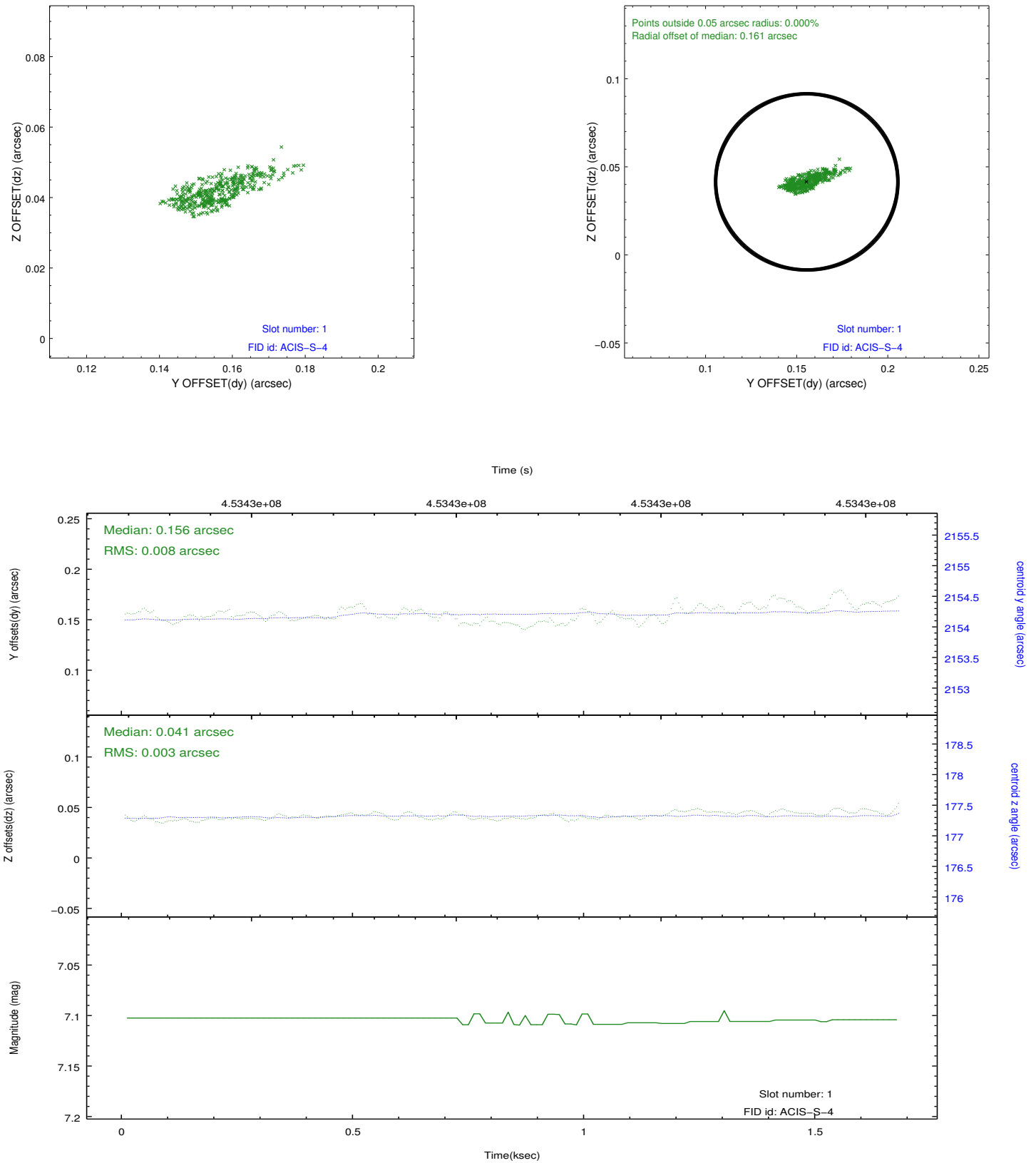


## 2.5 FID Slots

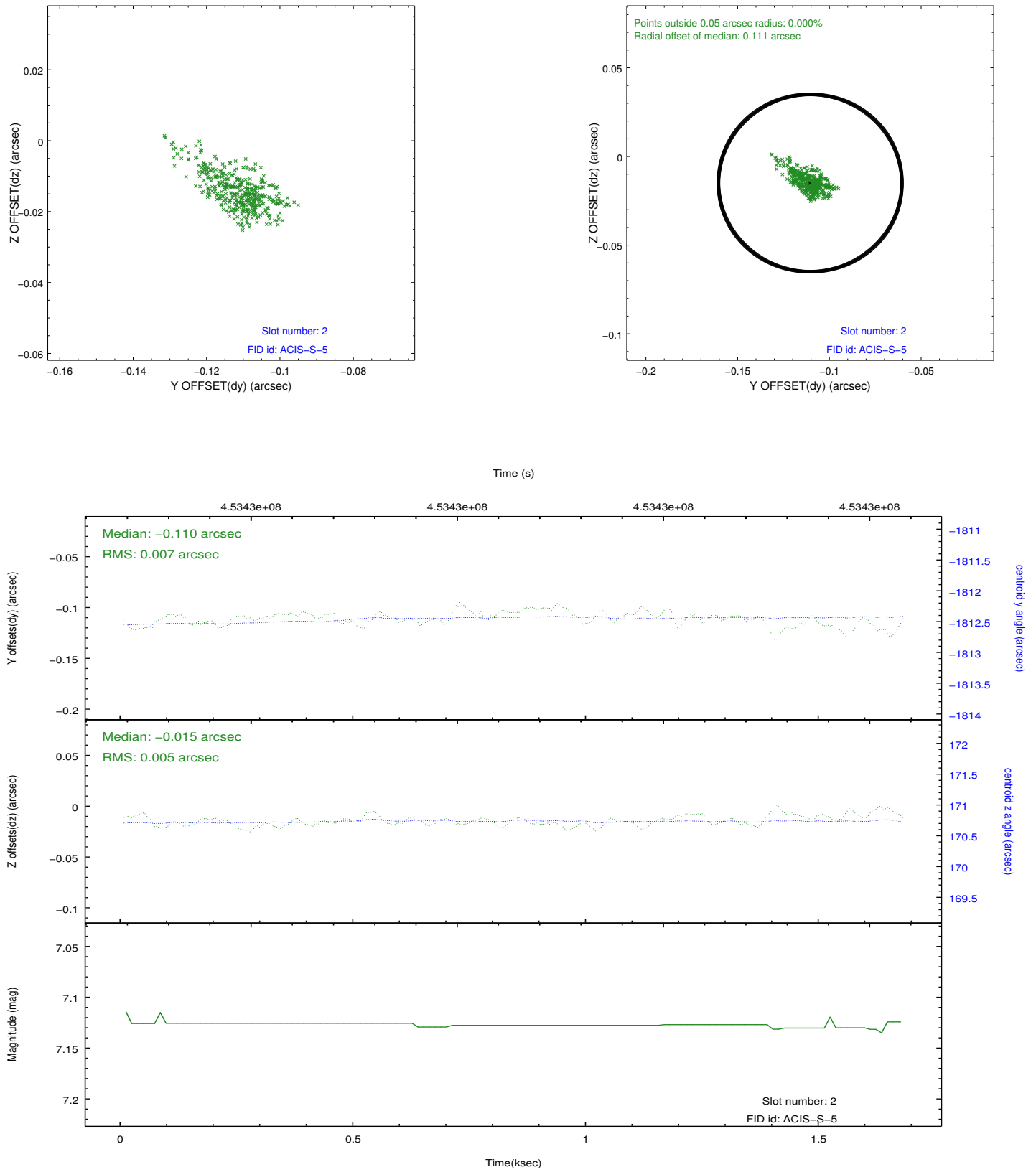
### 2.5.1 Slot 0



## 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)	2012.05.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.5776038168073

### A.2 Comments