

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 7843 - L2 Version 2  
Chandra X-Ray Center

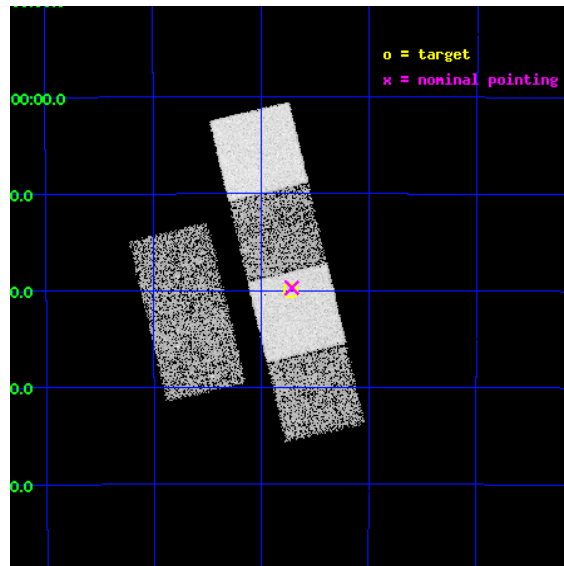
L2 Processing Date : Apr 28 2012

## 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

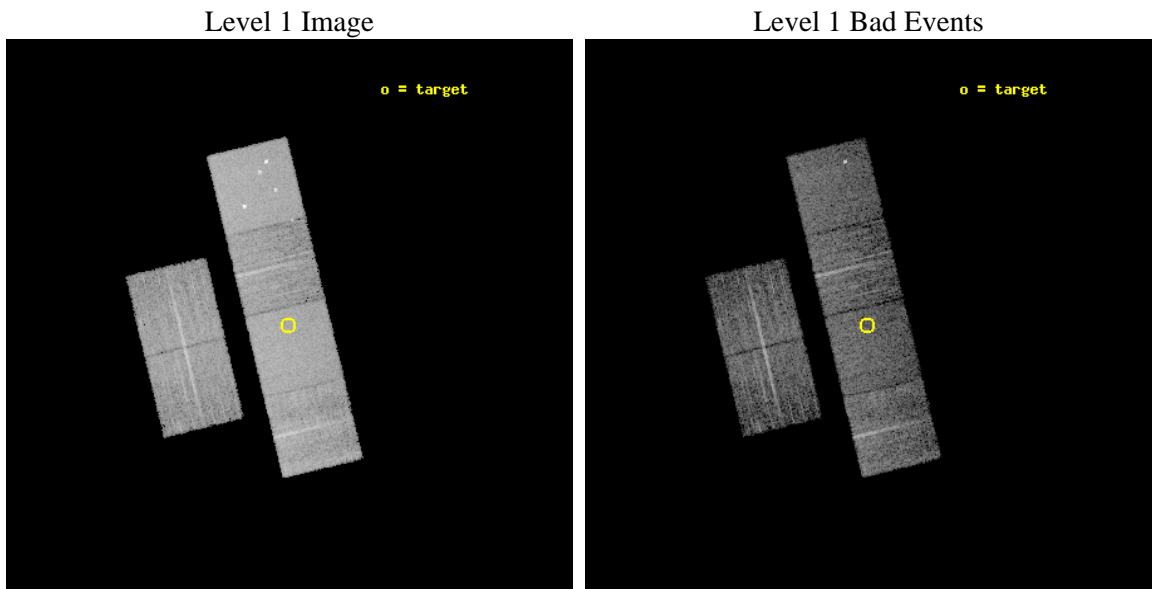
seq_num	701507	Sequence number
obs_id	7843	Observation id
title	Demographics of black holes in the local Universe.	Proposal title
observer	Prof. Smita Mathur	Principal investigator
object	IC 5325	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	352.180833	Observer's specified target RA [deg]
dec_targ	-41.333472	Observer's specified target Dec [deg]
ra_nom	352.17889092034	Nominal RA [deg]
dec_nom	-41.328871153235	Nominal Dec [deg]
roll_nom	76.498109455185	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5174.3999807835	Sum of GTIs [s]
livetime	5108.8786125772	Livetime [s]
ontime2	5174.3999807835	Sum of GTIs [s]
ontime3	5174.3999807835	Sum of GTIs [s]
ontime5	5174.3999807835	Sum of GTIs [s]
ontime6	5174.3999807835	Sum of GTIs [s]
ontime7	5174.3999807835	Sum of GTIs [s]
ontime8	5174.3999807835	Sum of GTIs [s]
l2events	82821	Number of level 2 events



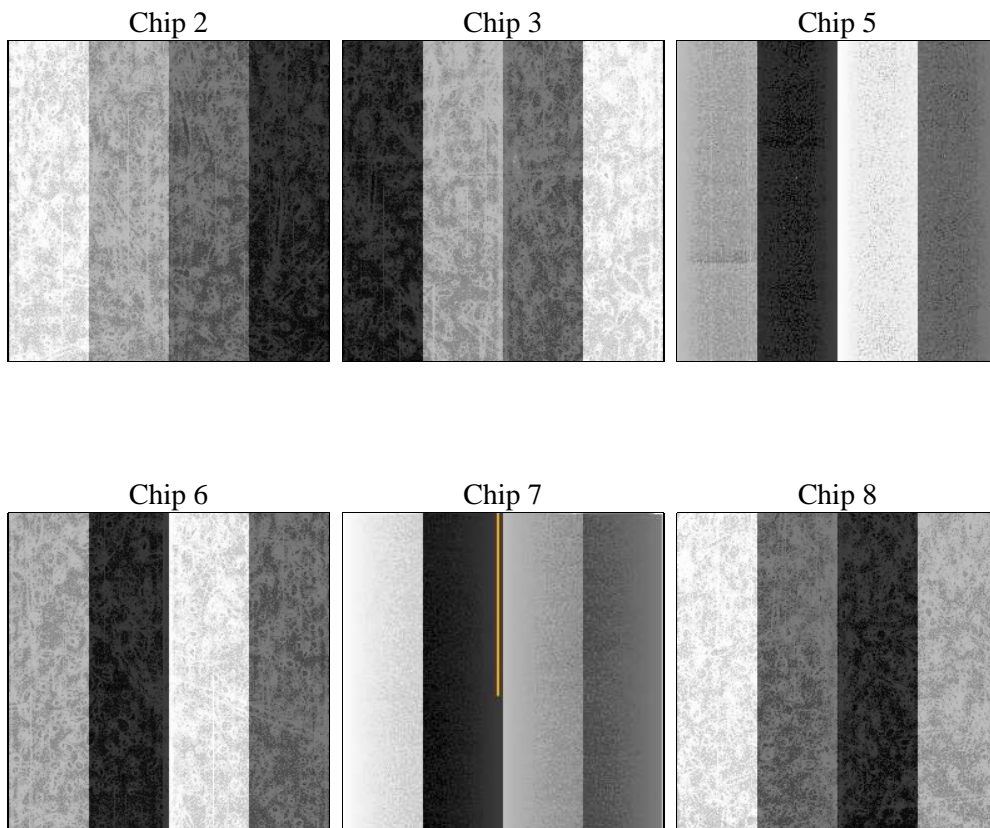
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.747000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	5174.3999807835	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime2	5174.3999807835	Sum of GTIs [s]
date	2012-04-28T14:21:45	Date and time of file creation	ontime3	5174.3999807835	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	5174.3999807835	Sum of GTIs [s]
			ontime6	5174.3999807835	Sum of GTIs [s]
			ontime7	5174.3999807835	Sum of GTIs [s]
			ontime8	5174.3999807835	Sum of GTIs [s]
			l1events	372202	Number of level 1 events

### 2.1.4 Events

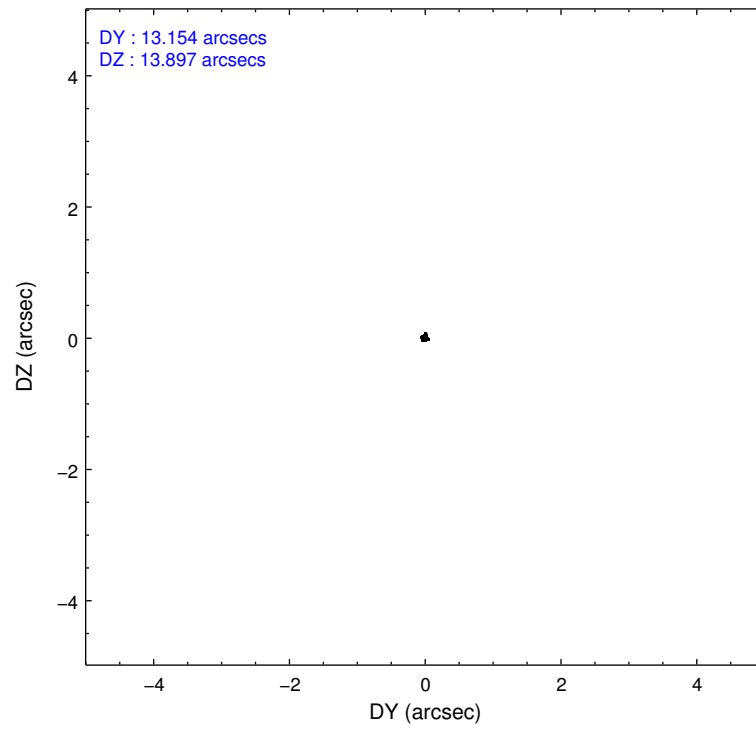
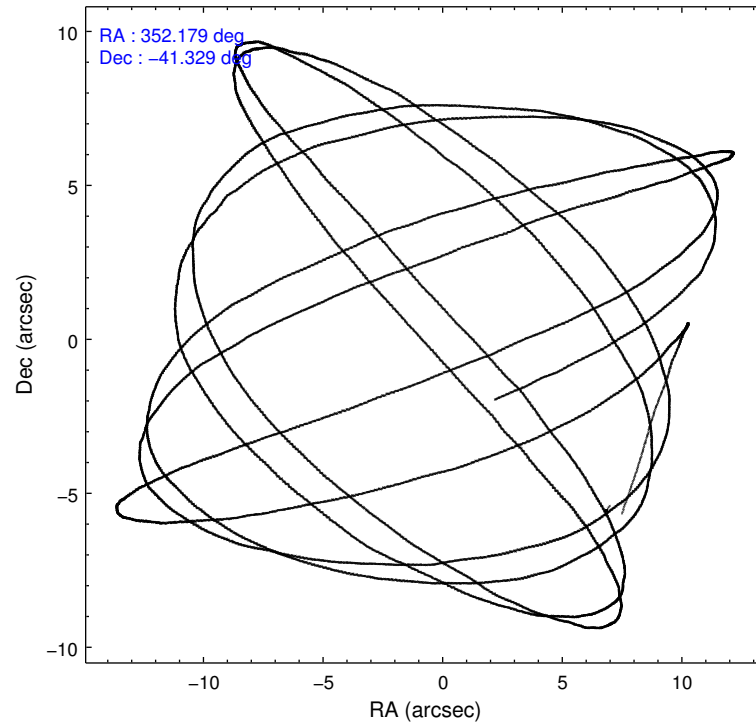
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	51108	48830	82283	51910	71839	66232	grade 0 events	2684	2649	5042	2466	2656	4597
rejected events	45187	42911	44708	45730	43010	51893		5%	5%	6%	4%	3%	6%
rejected %	88%	87%	54%	88%	59%	78%	grade 1 events	39	43	124	21	89	39
								0%	0%	0%	0%	0%	0%
							grade 2 events	1312	1210	11746	1368	6036	3461
								2%	2%	14%	2%	8%	5%
							grade 3 events	533	601	1317	629	2543	1451
								1%	1%	1%	1%	3%	2%
							grade 4 events	567	609	1144	622	2491	1398
								1%	1%	1%	1%	3%	2%
							grade 5 events	2093	2319	5953	2364	6703	3325
								4%	4%	7%	4%	9%	5%
							grade 6 events	1046	1066	19629	1301	16184	4013
								2%	2%	23%	2%	22%	6%
							grade 7 events	42834	40333	37328	43139	35137	47948
								83%	82%	45%	83%	48%	72%

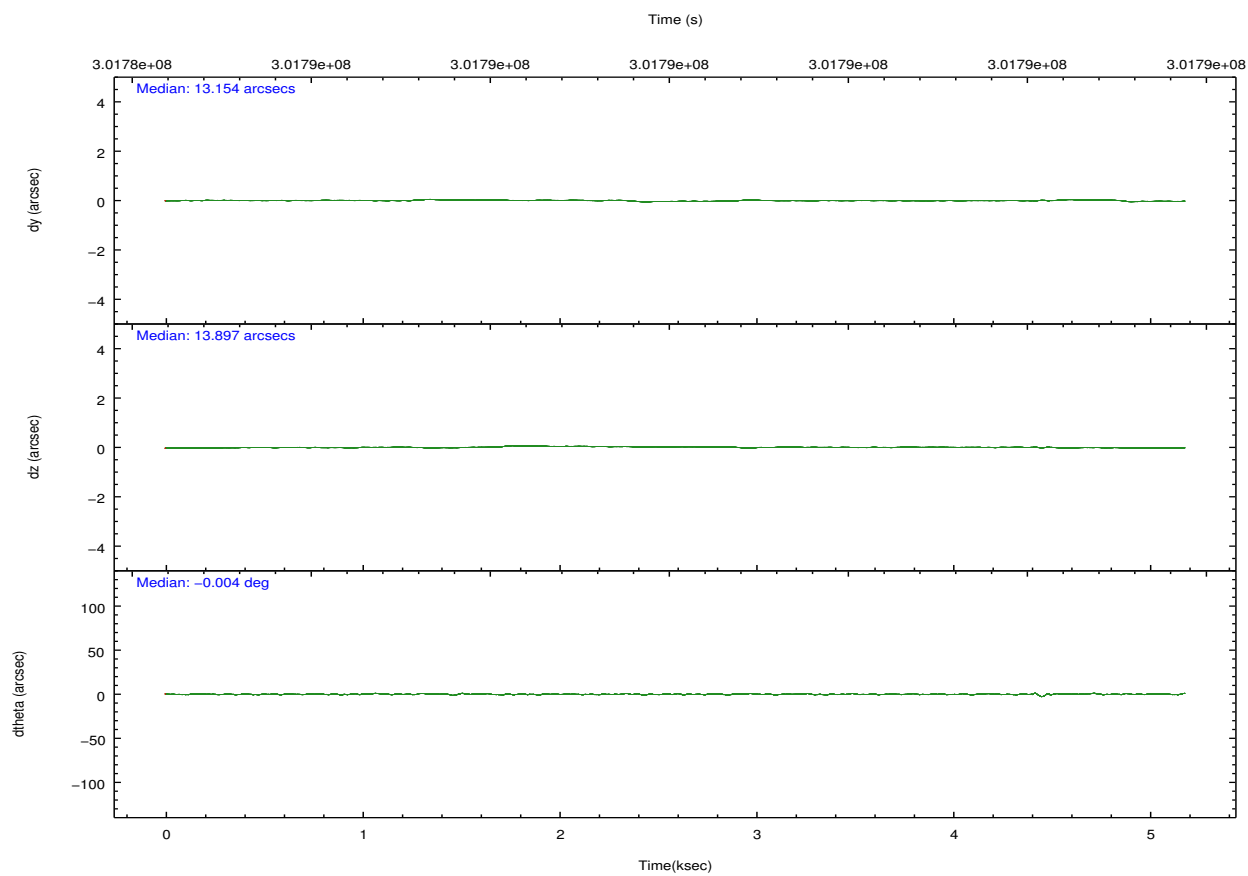
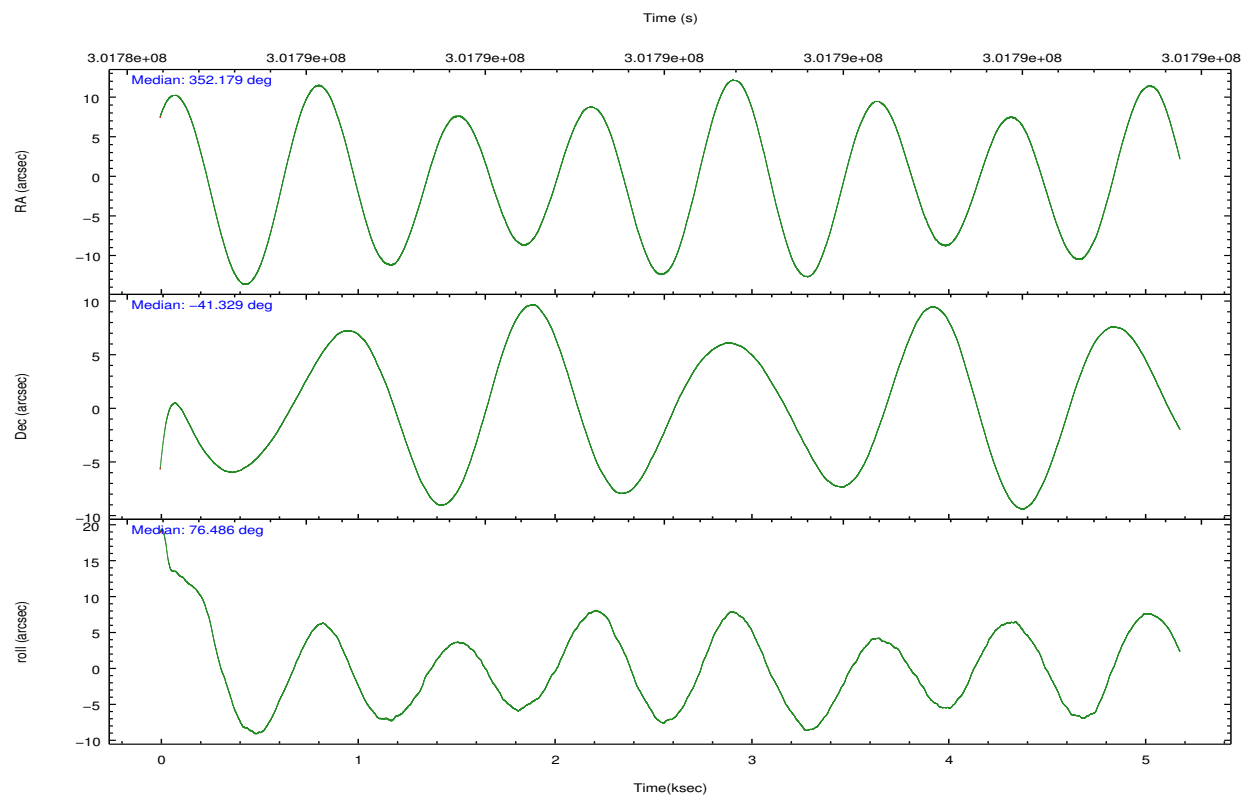


## 2.2 Compared Parameters

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	352.189645	352.178890920338	Subarray requested	NONE	NONE
[deg] Pointing Dec	-41.354969	-41.32887115323473	Alternating exposures requested	N	N
[deg] Pointing Roll	76.348557	76.49810945518453	[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	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	301785614.184000	301784448.31527			
Observation start date	2007-07-25T21:19:09	2007-07-25T21:00:48			
[s] Observation end time (MET)	301790615.184000	301790836.11558			
Observation end date	2007-07-25T22:42:30	2007-07-25T22:47:16			
Read mode	TIMED	TIMED			

## 2.3 Aspect



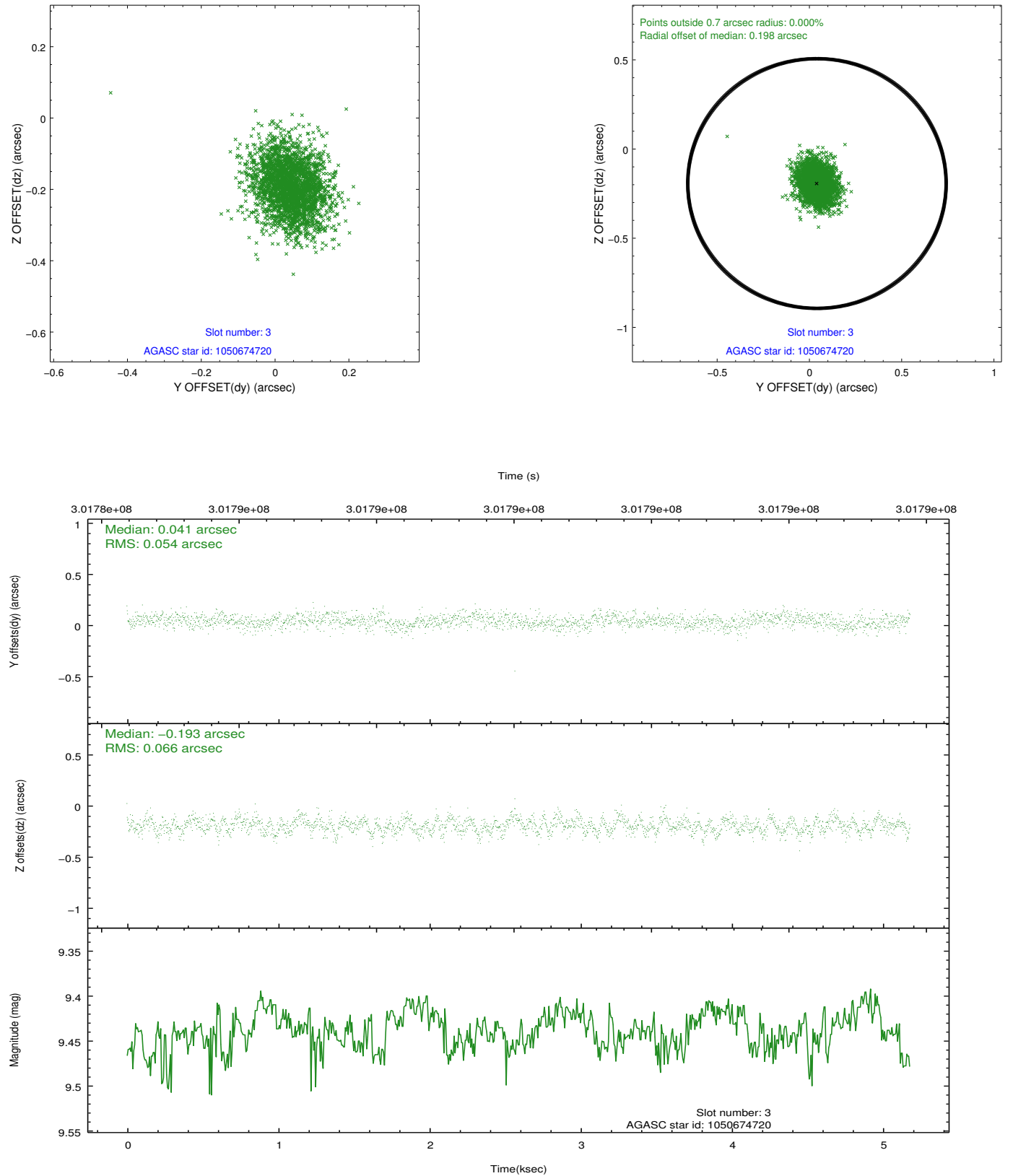


### Slot Statistics

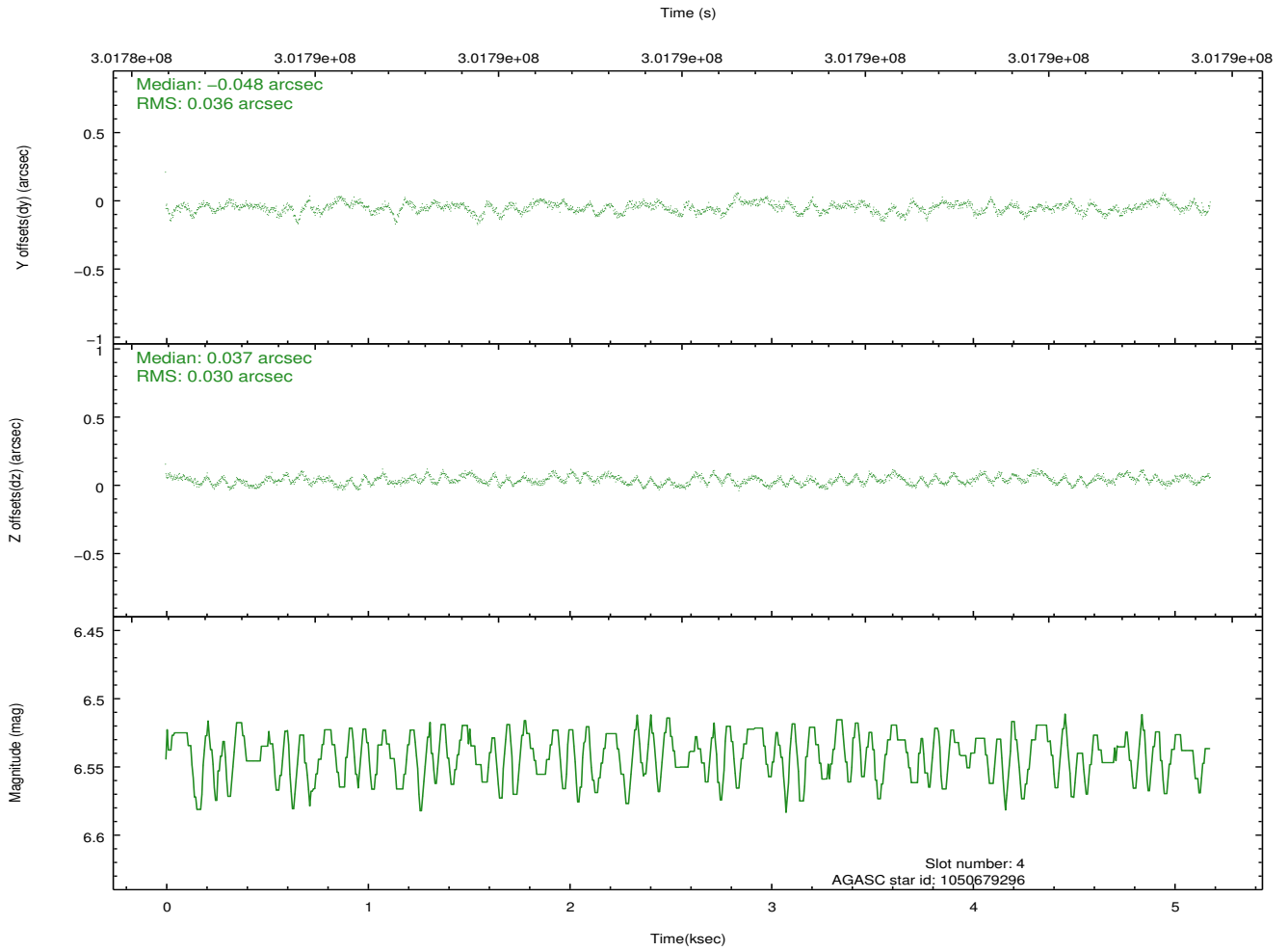
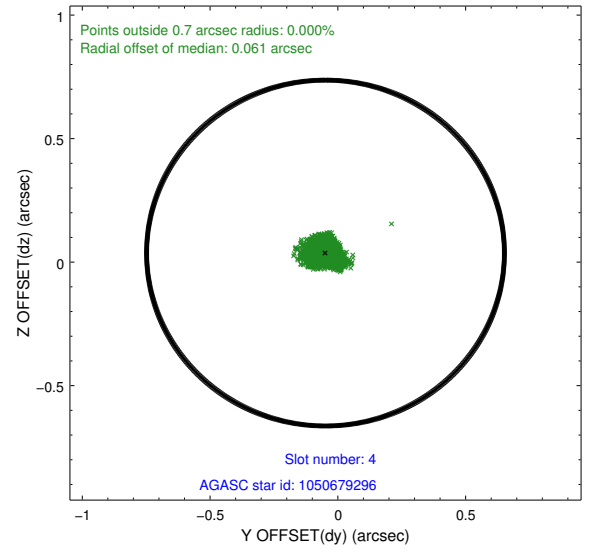
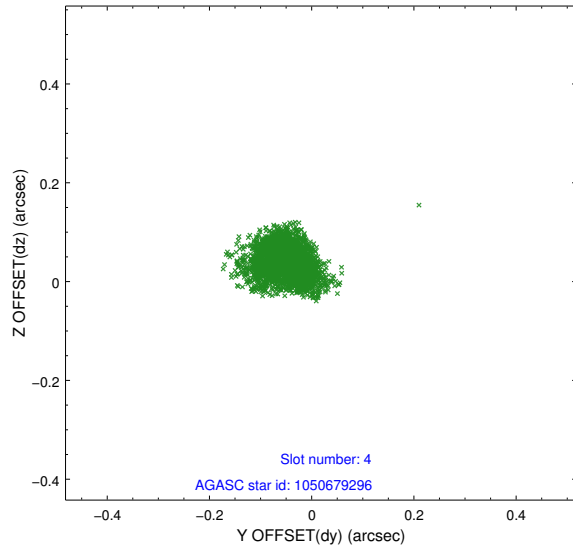
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	1263	-0.044	-0.063	0.007	0.011	0.000000	0.000000	-766.11	-1735.32
1	FID	ACIS-S-4	7.19	1264	0.180	0.038	0.006	0.010	0.000000	0.000000	2146.85	172.07
2	FID	ACIS-S-5	7.22	1264	-0.167	0.034	0.007	0.011	0.000000	0.000000	-1817.58	167.05
3	GUIDE	1050674720	9.44	2526	0.041	-0.193	0.088	0.146	351.984575	-41.576505	-905.94	346.57
4	GUIDE	1050679296	6.54	2528	-0.048	0.037	0.050	0.080	352.642278	-41.988802	-1935.27	-1715.50
5	GUIDE	1050681192	9.43	2523	0.016	-0.263	0.081	0.134	351.567647	-41.694409	-1588.88	1334.39
6	GUIDE	1050682512	8.63	2527	0.100	0.230	0.072	0.115	352.656594	-41.596064	-550.15	-1425.93
7	GUIDE	1050682920	6.35	2527	-0.108	0.185	0.053	0.091	352.965237	-41.752374	-907.46	-2363.91

## 2.4 Star Slots

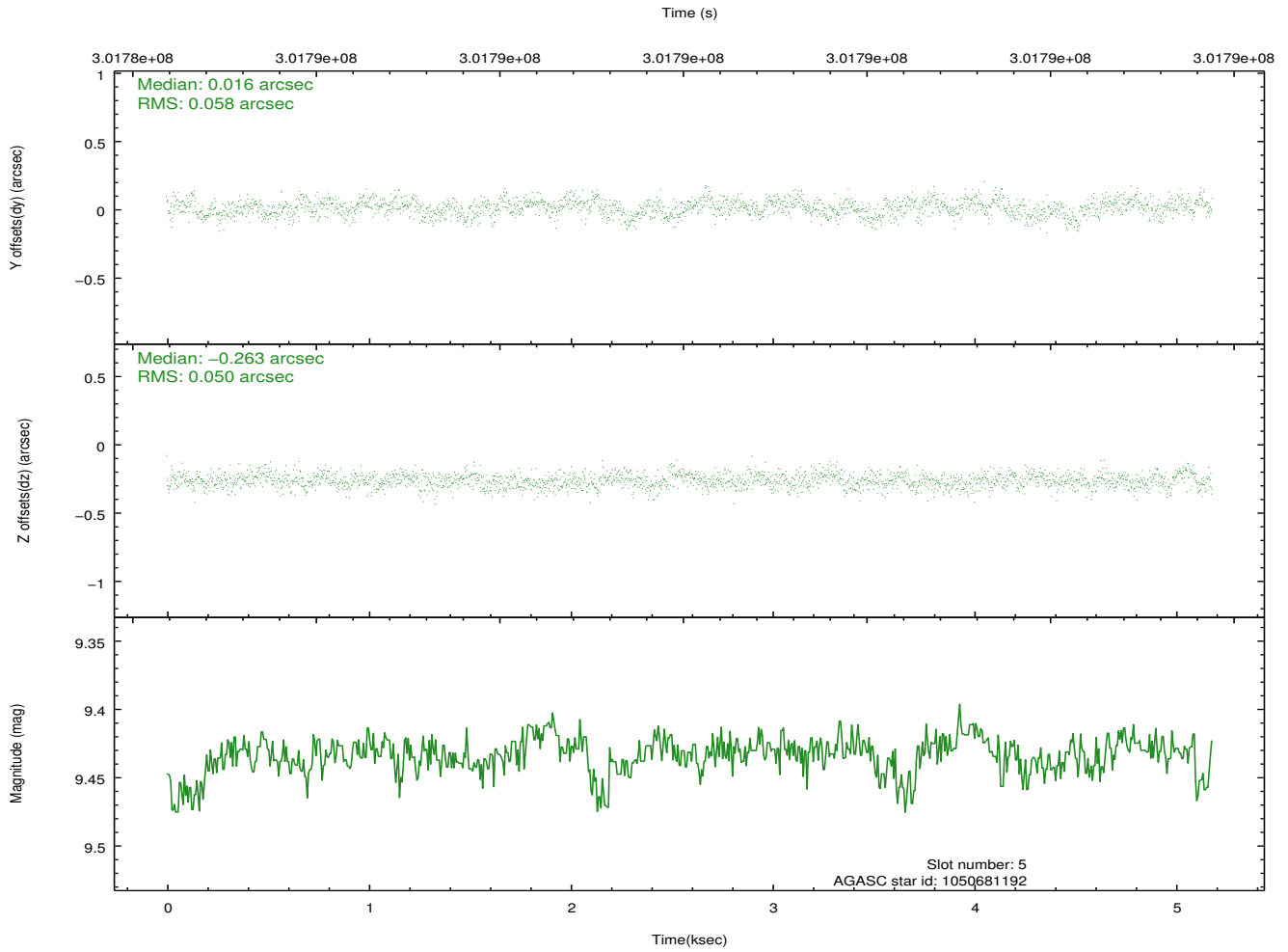
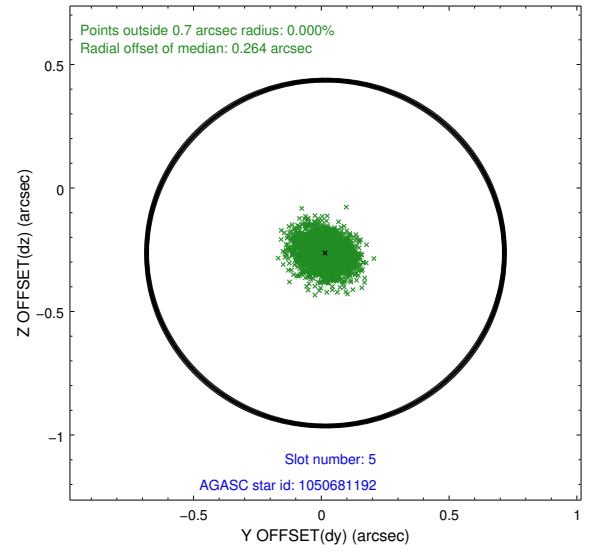
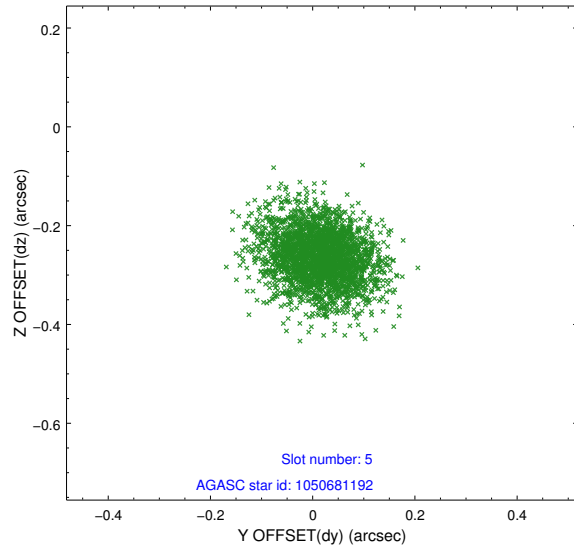
### 2.4.1 Slot 3



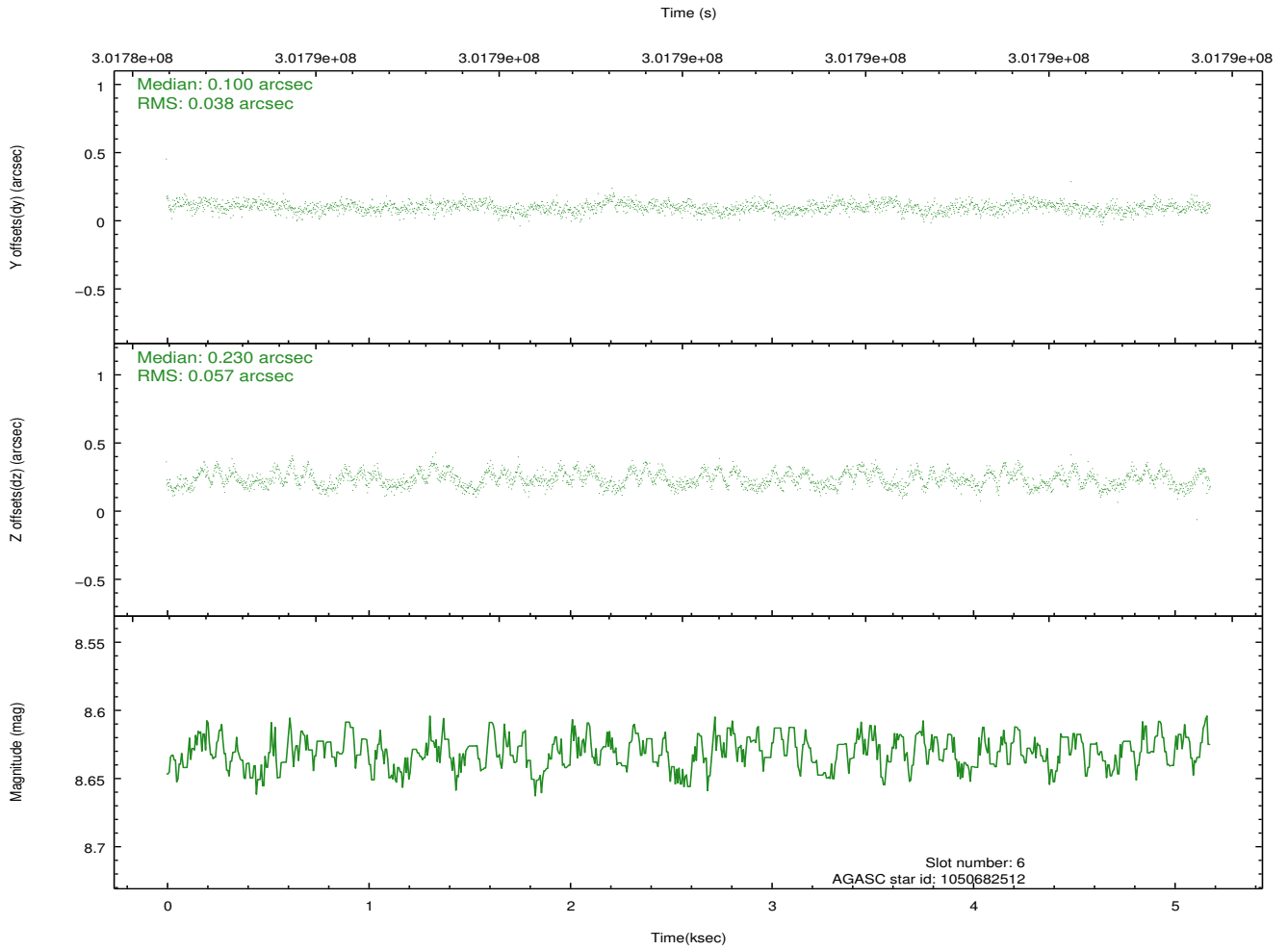
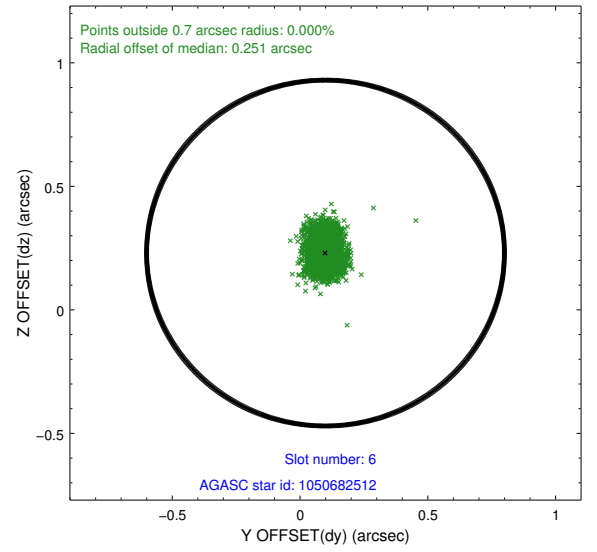
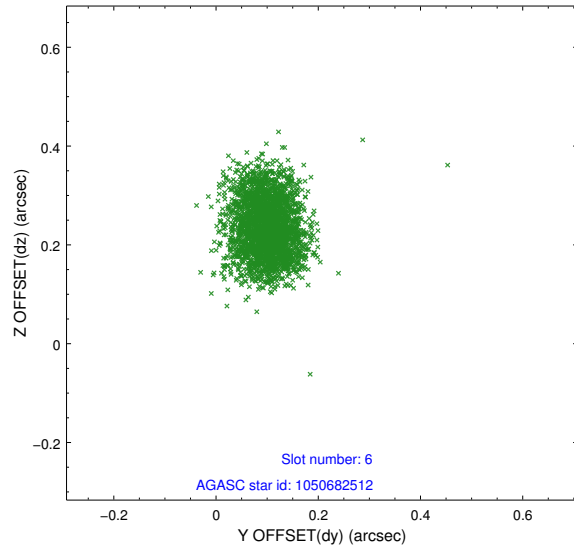
## 2.4.2 Slot 4



### 2.4.3 Slot 5

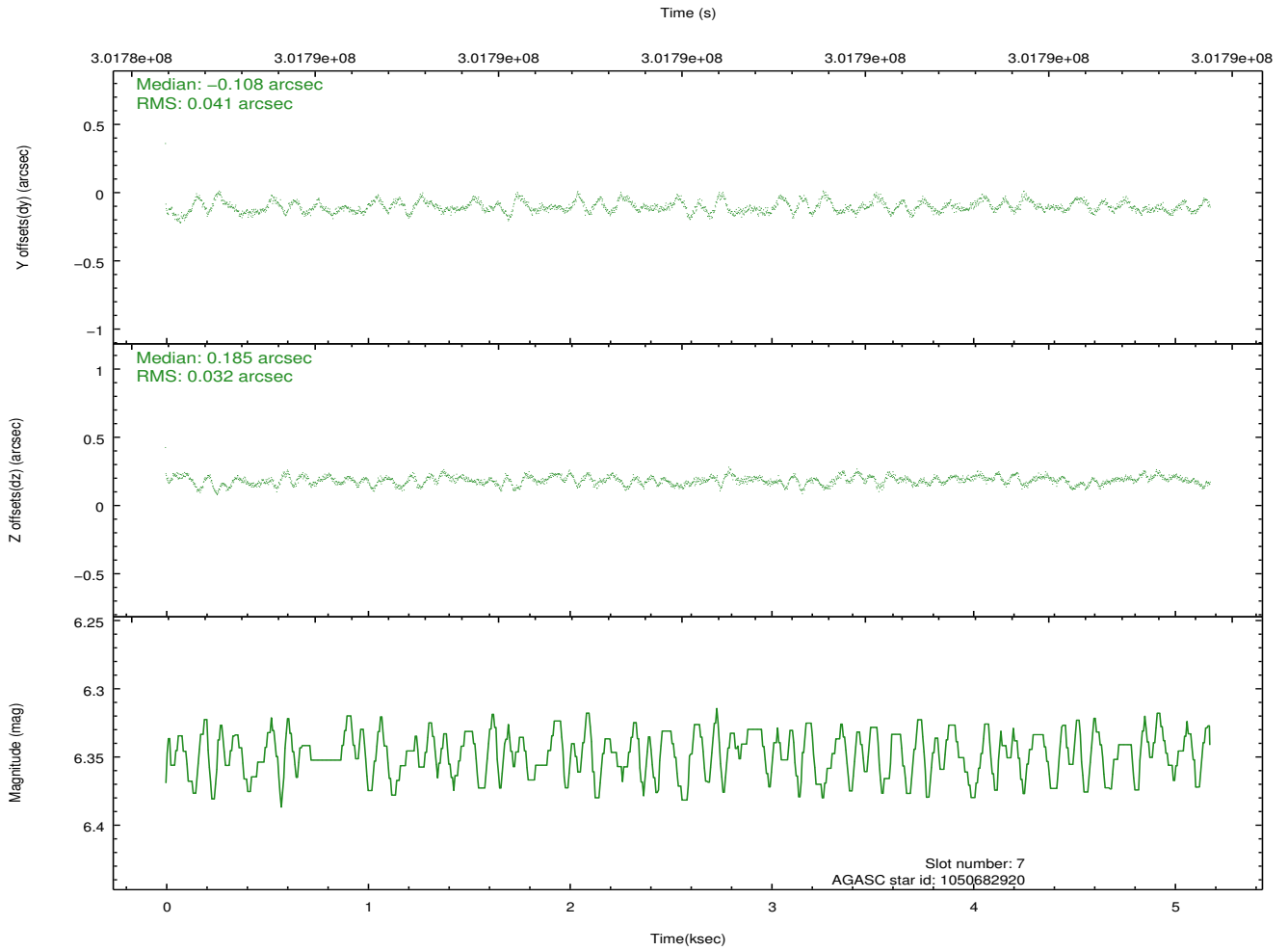
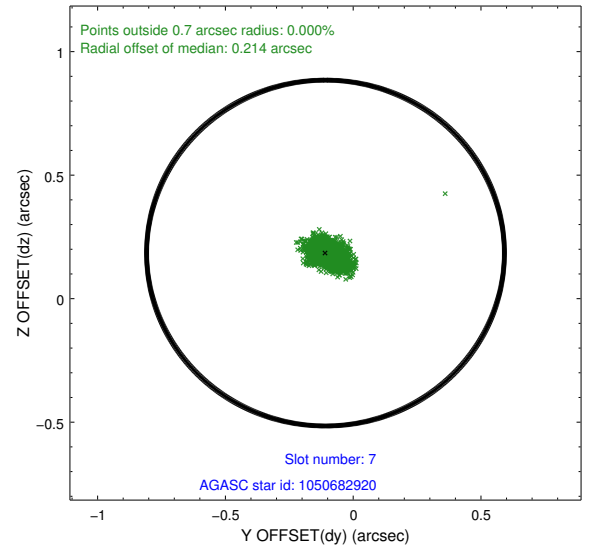
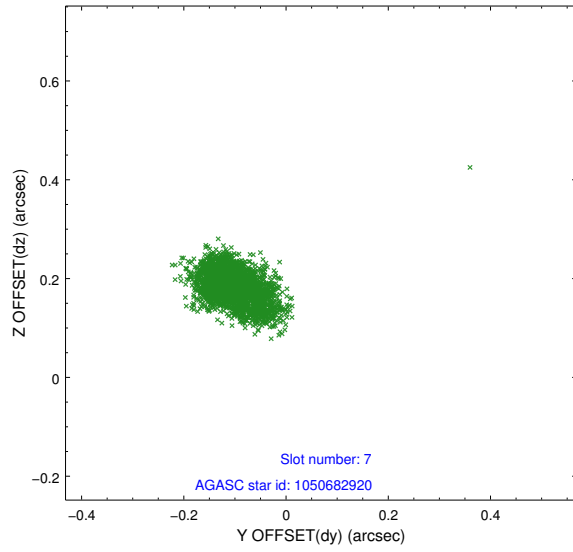


## 2.4.4 Slot 6



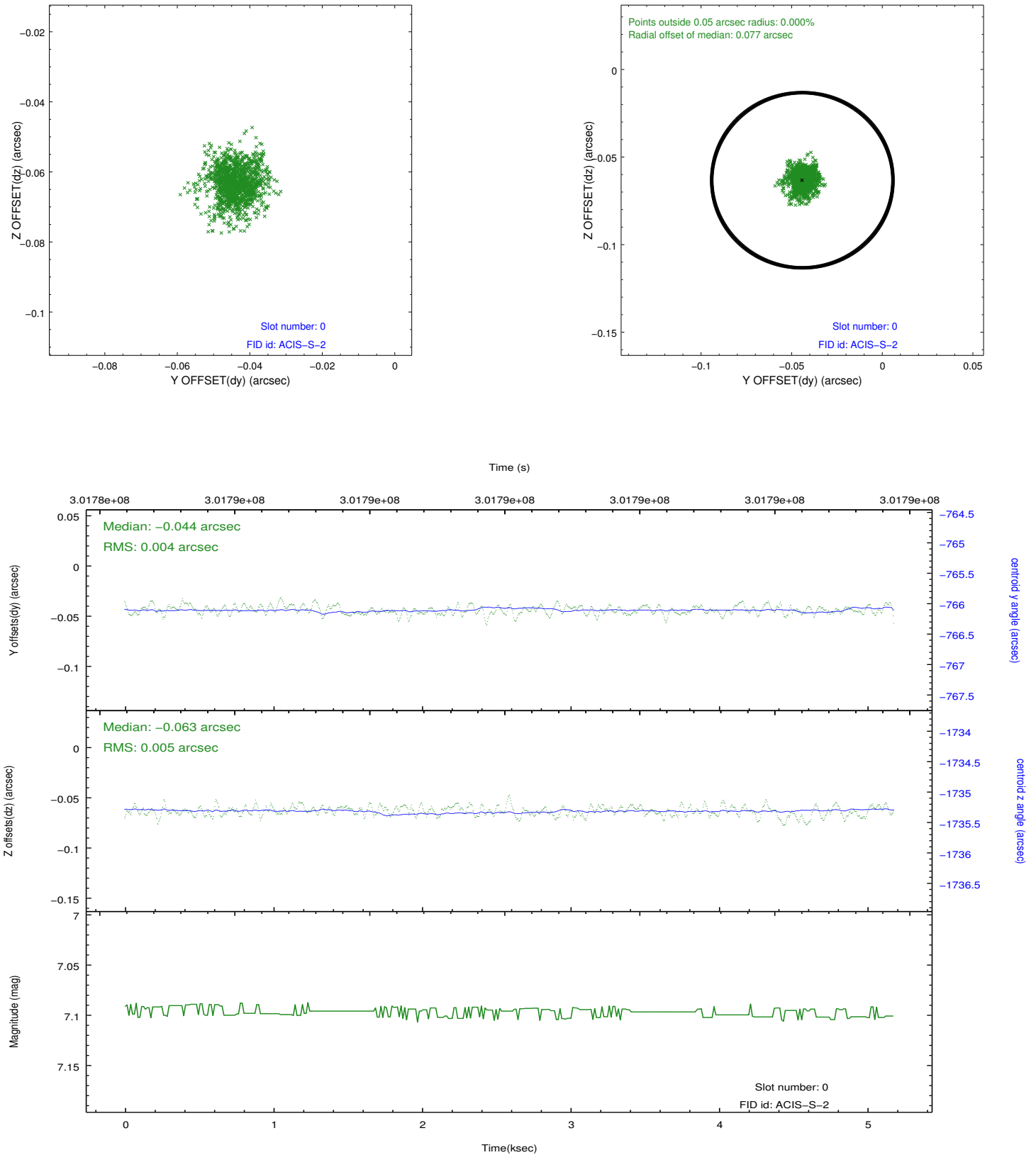


## 2.4.5 Slot 7

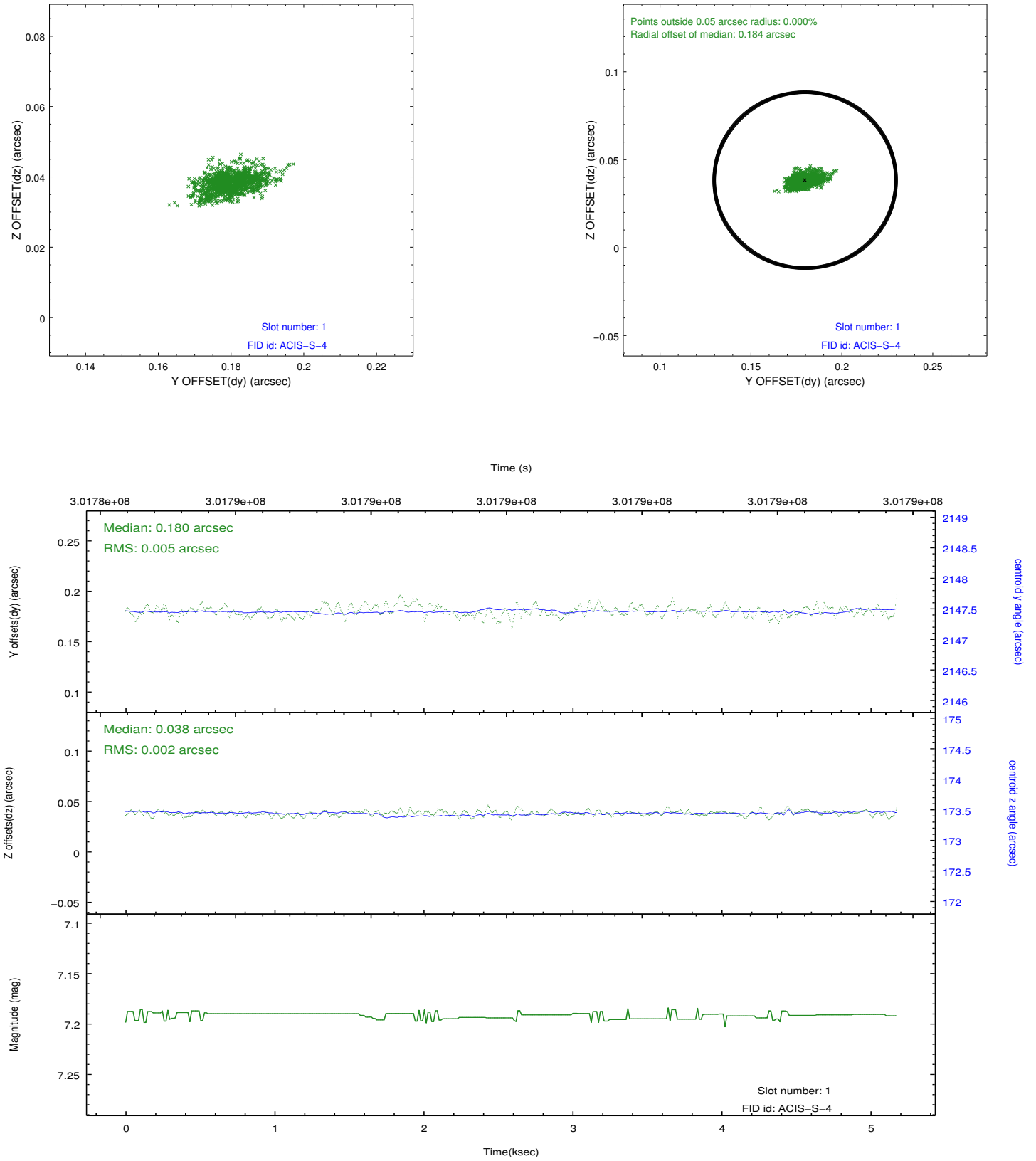


## 2.5 FID Slots

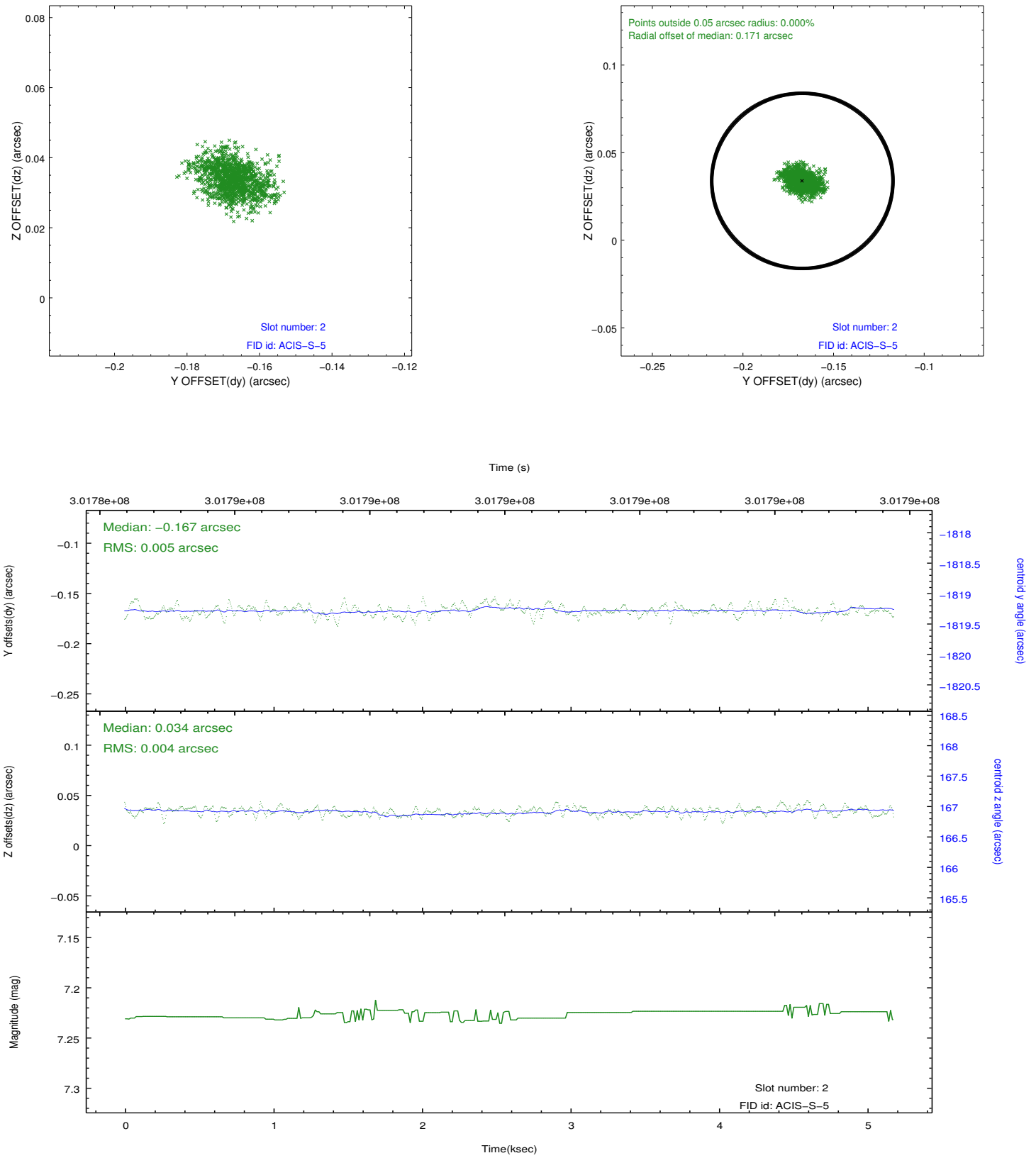
### 2.5.1 Slot 0



## 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)	2012.05.01
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.17439998

### A.2 Comments