

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 3854 - L2 Version 3  
Chandra X-Ray Center

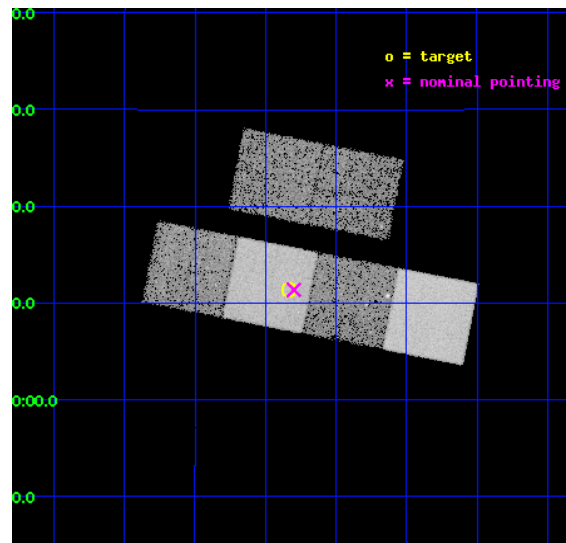
L2 Processing Date : Nov 1 2012

## 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	500333	Sequence number
obs_id	3854	Observation id
title	X-RAY EMISSION FROM YOUNG RADIO PULSARS DISCOVERED IN THE PARKES MULTIBEAM SURVEY	Proposal title
observer	Dr. Divas Sanwal	Principal investigator
object	PSR J1913+1011	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	288.334583	Observer's specified target RA [deg]
dec_targ	10.189722	Observer's specified target Dec [deg]
ra_nom	288.32473037089	Nominal RA [deg]
dec_nom	10.189571399115	Nominal Dec [deg]
roll_nom	190.99127069555	Nominal Roll [deg]
revision	3	Processing version of data
ontime	19798.399926245	Sum of GTIs [s]
livetime	19547.700665214	Livetime [s]
ontime2	19798.399926245	Sum of GTIs [s]
ontime3	19798.399926245	Sum of GTIs [s]
ontime5	19798.399926245	Sum of GTIs [s]
ontime6	19798.399926245	Sum of GTIs [s]
ontime7	19798.399926245	Sum of GTIs [s]
ontime8	19798.399926245	Sum of GTIs [s]
l2events	148624	Number of level 2 events

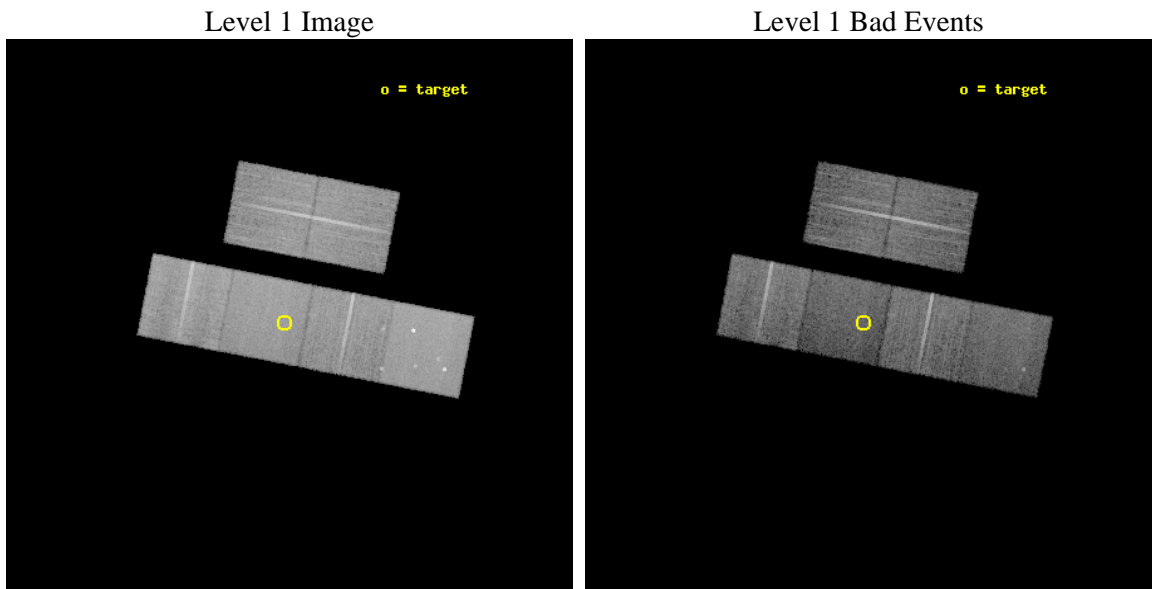




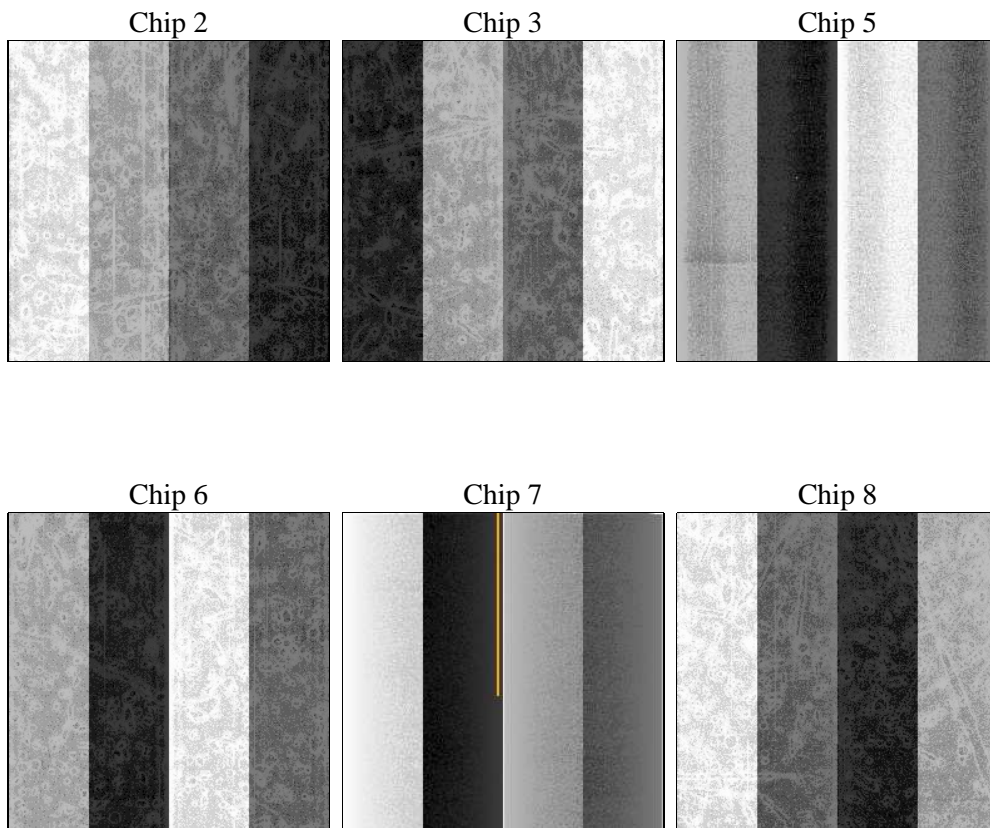
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	20000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	19798.399926245	Sum of GTIs [s]
caldsver	4.5.2	&#160	ontime2	19798.399926245	Sum of GTIs [s]
date	2012-11-01T04:12:26	Date and time of file creation	ontime3	19798.399926245	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	19798.399926245	Sum of GTIs [s]
			ontime6	19798.399926245	Sum of GTIs [s]
			ontime7	19798.399926245	Sum of GTIs [s]
			ontime8	19798.399926245	Sum of GTIs [s]
			l1events	671800	Number of level 1 events

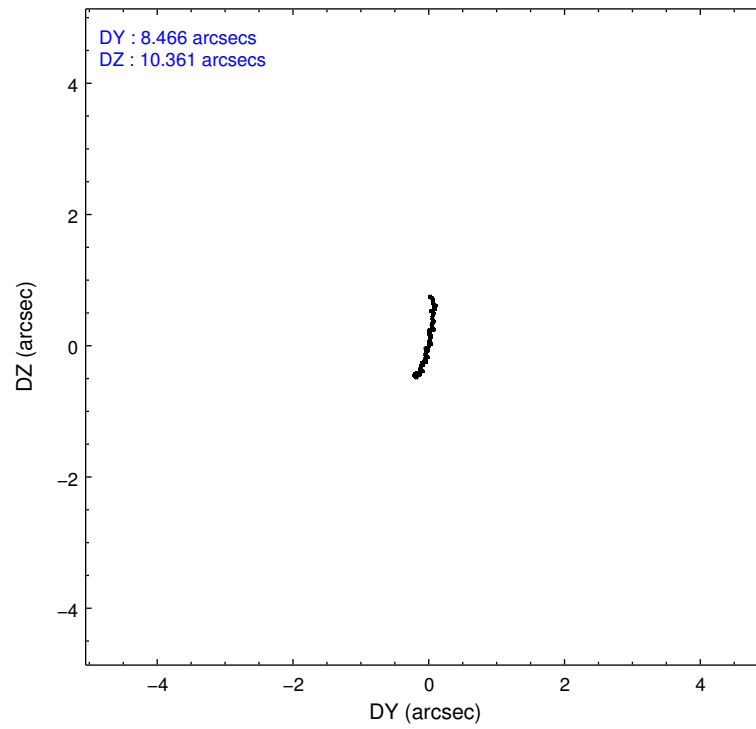
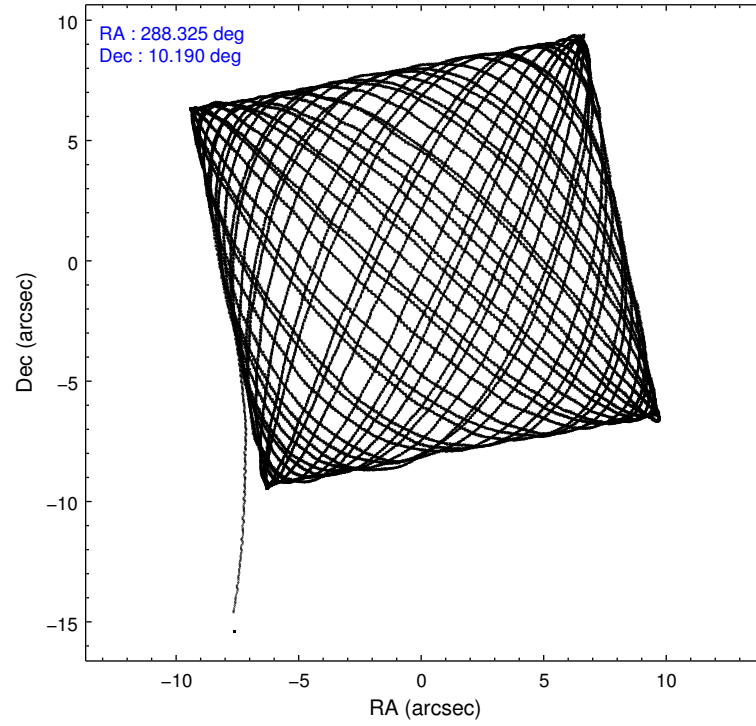
### 2.1.4 Events

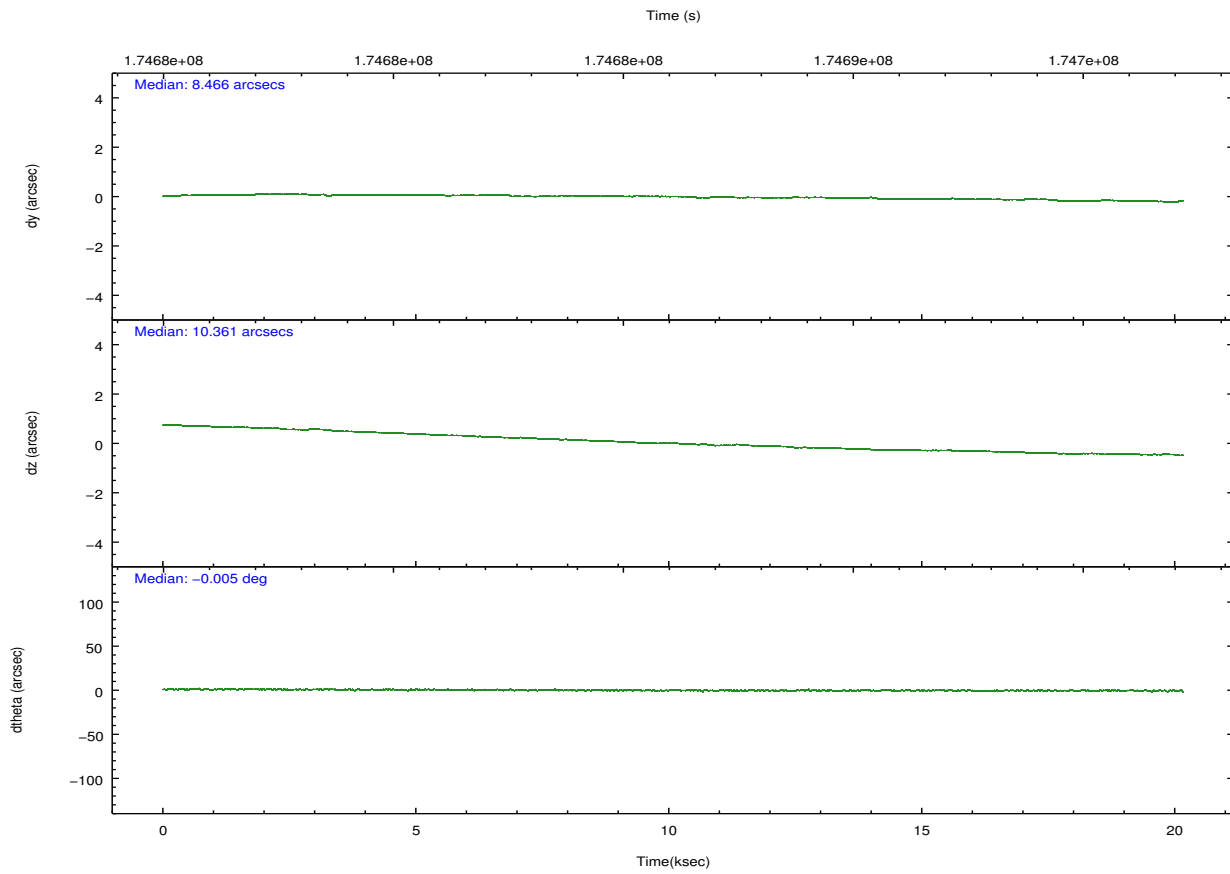
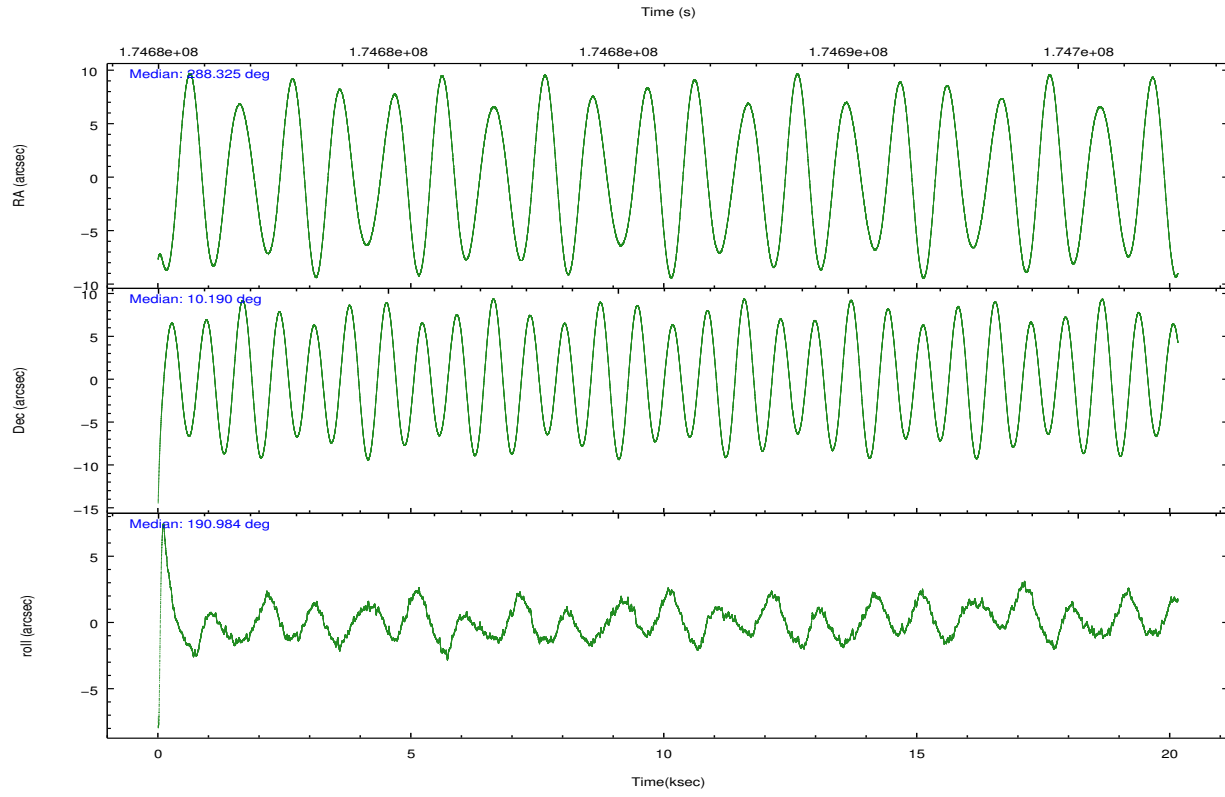
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	101597	98593	136334	100847	110677	123752	grade 0 events	3861	3883	9677	4286	4663	8964
rejected events	91358	88470	67022	89566	60508	95867		3%	3%	7%	4%	4%	7%
rejected %	89%	89%	49%	88%	54%	77%	grade 1 events	53	63	125	50	93	91
								0%	0%	0%	0%	0%	0%
							grade 2 events	2376	2036	19975	2399	10020	5972
								2%	2%	14%	2%	9%	4%
							grade 3 events	1093	1158	3037	1209	4859	3086
								1%	1%	2%	1%	4%	2%
							grade 4 events	1142	1096	2927	1183	4924	2868
								1%	1%	2%	1%	4%	2%
							grade 5 events	3476	3802	10937	3969	11798	5812
								3%	3%	8%	3%	10%	4%
							grade 6 events	1770	1951	33721	2205	25712	7001
								1%	1%	24%	2%	23%	5%
							grade 7 events	87826	84604	55935	85546	48608	89958
								86%	85%	41%	84%	43%	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	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	288.345395	288.3247303708898	Subarray requested	NONE	NONE
[deg] Pointing Dec	10.207711	10.18957139911497	Alternating exposures requested	N	N
[deg] Pointing Roll	190.830997	190.991270695555	[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)	174676163.184000	174675151.40596			
Observation start date	2003-07-15T17:08:19	2003-07-15T16:52:31			
[s] Observation end time (MET)	174696163.184000	174696932.65689			
Observation end date	2003-07-15T22:41:39	2003-07-15T22:55:32			
Read mode	TIMED	TIMED			

## 2.3 Aspect



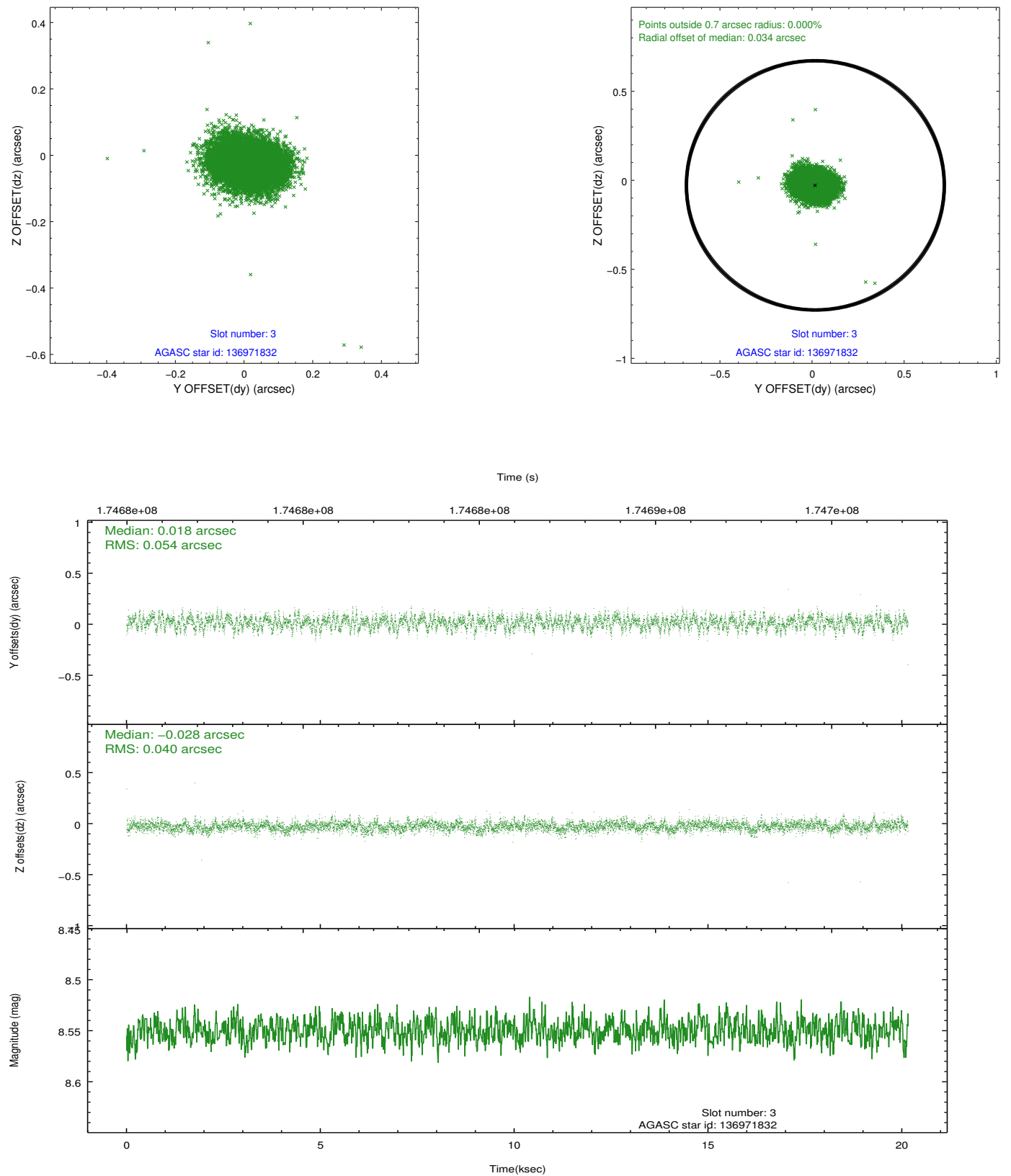


### Slot Statistics

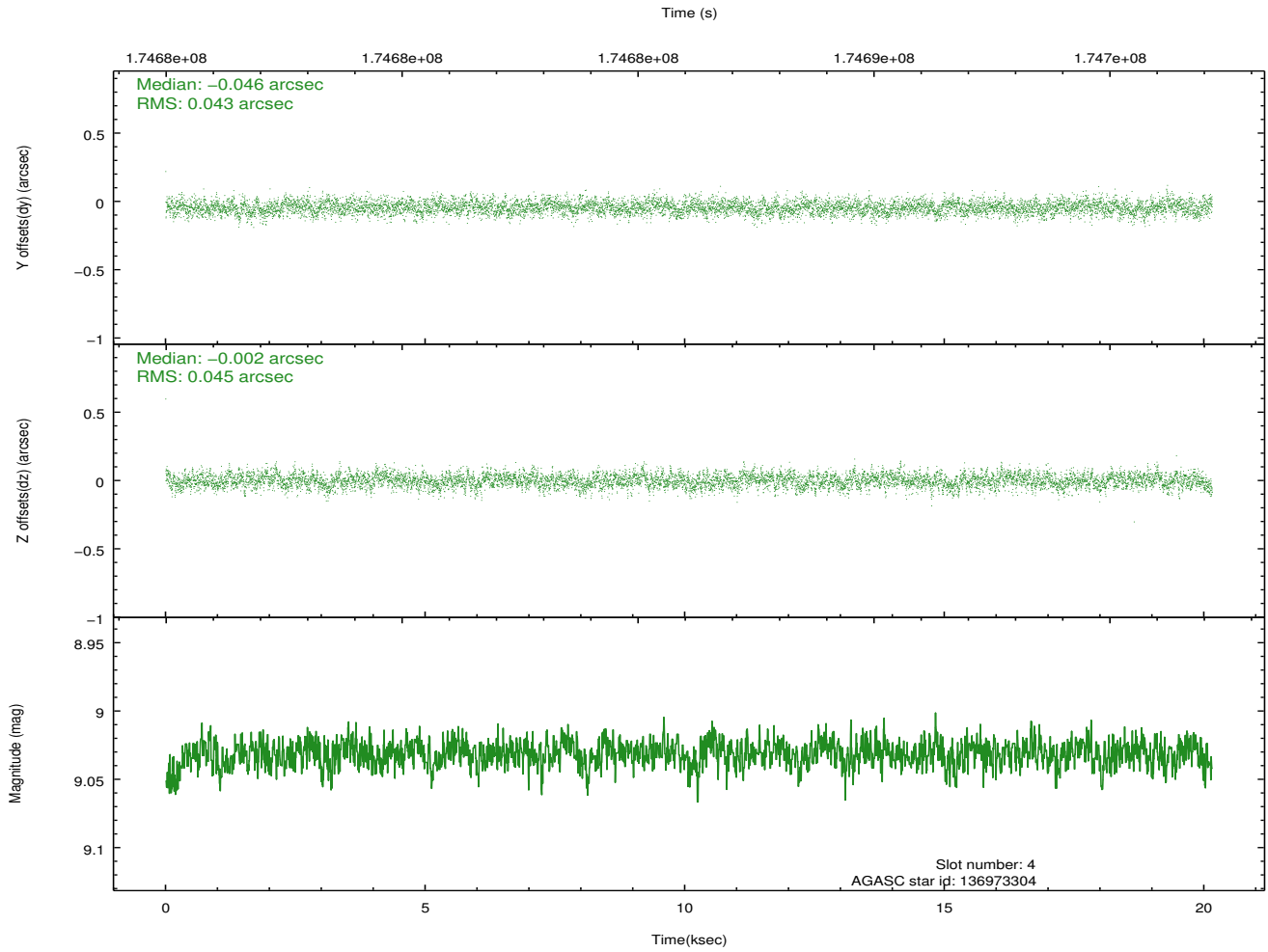
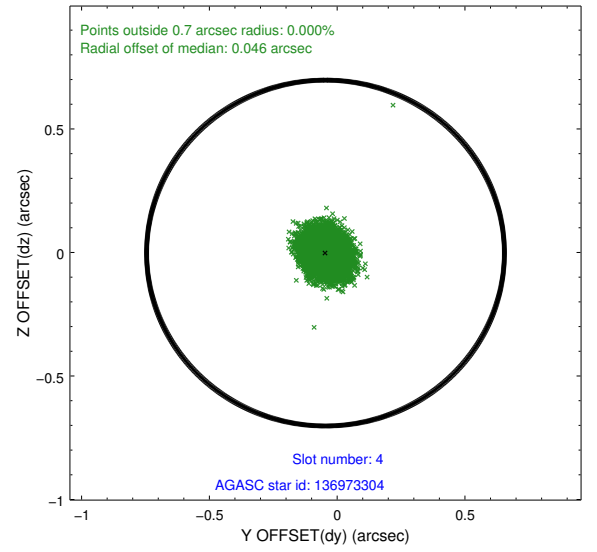
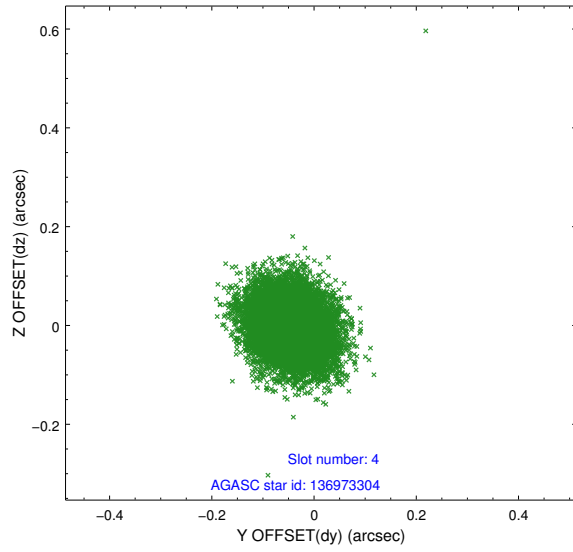
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	4917	-0.049	-0.025	0.007	0.014	0.000000	0.000000	-761.25	-1731.71
1	FID	ACIS-S-4	7.20	4917	0.065	0.020	0.008	0.013	0.000000	0.000000	2152.03	176.67
2	FID	ACIS-S-6	7.34	4917	-0.044	0.013	0.008	0.014	0.000000	0.000000	400.93	814.24
3	GUIDE	136971832	8.55	9833	0.018	-0.028	0.071	0.114	288.891291	9.780074	-1613.24	1874.50
4	GUIDE	136973304	9.03	9831	-0.046	-0.002	0.066	0.108	287.981763	10.395187	1137.77	-904.92
5	GUIDE	136973480	8.44	9833	0.018	-0.047	0.056	0.090	287.924725	9.951688	1638.30	624.42
6	GUIDE	136976152	8.34	9831	-0.060	0.049	0.069	0.111	288.755961	9.807623	-1159.98	1687.75
7	GUIDE	136972192	8.62	9826	0.071	0.030	0.071	0.116	288.510925	10.645719	-871.28	-1438.43

## 2.4 Star Slots

### 2.4.1 Slot 3

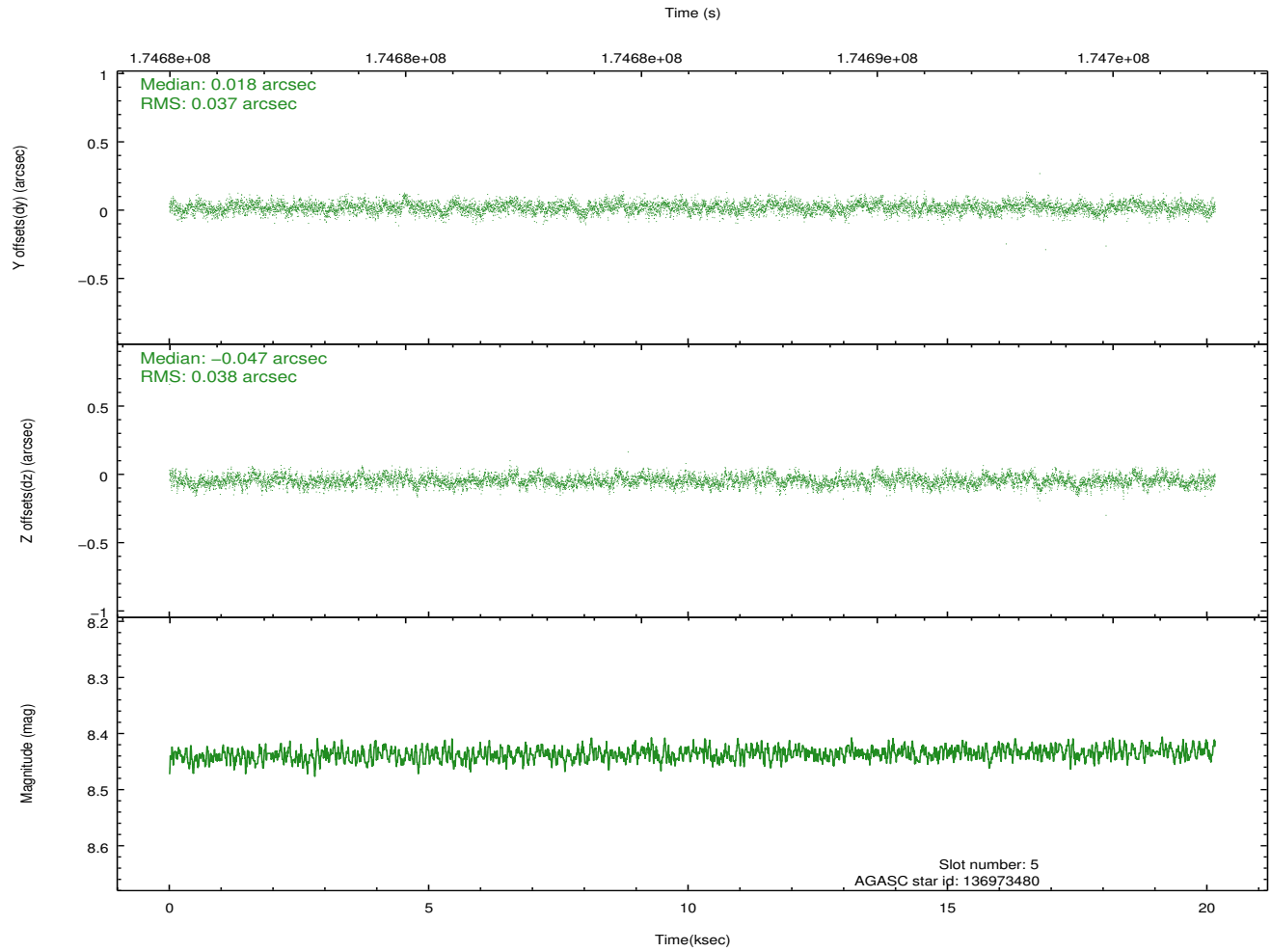
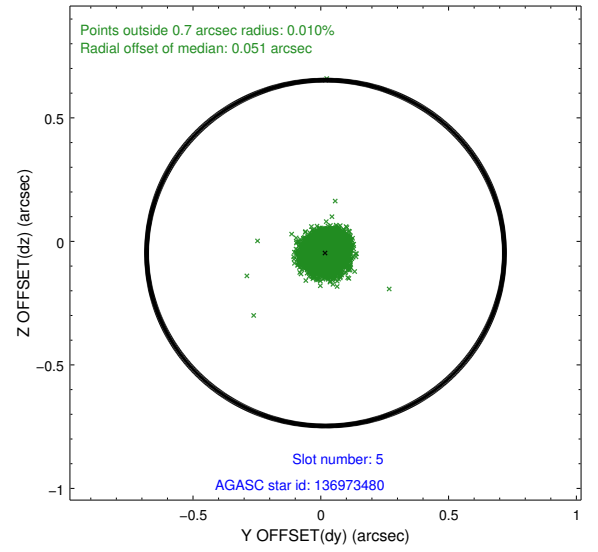
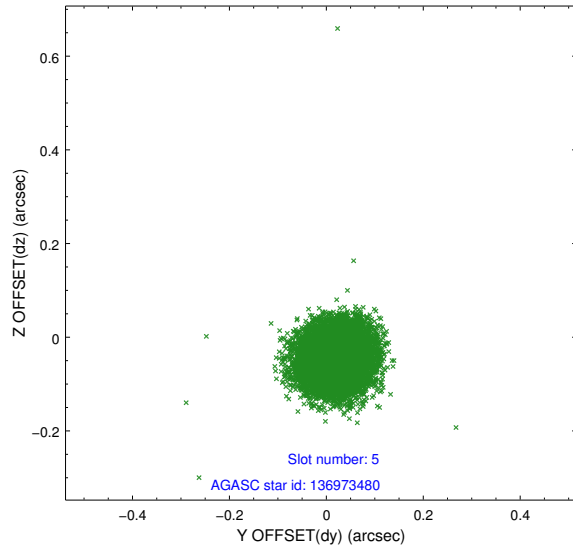


## 2.4.2 Slot 4

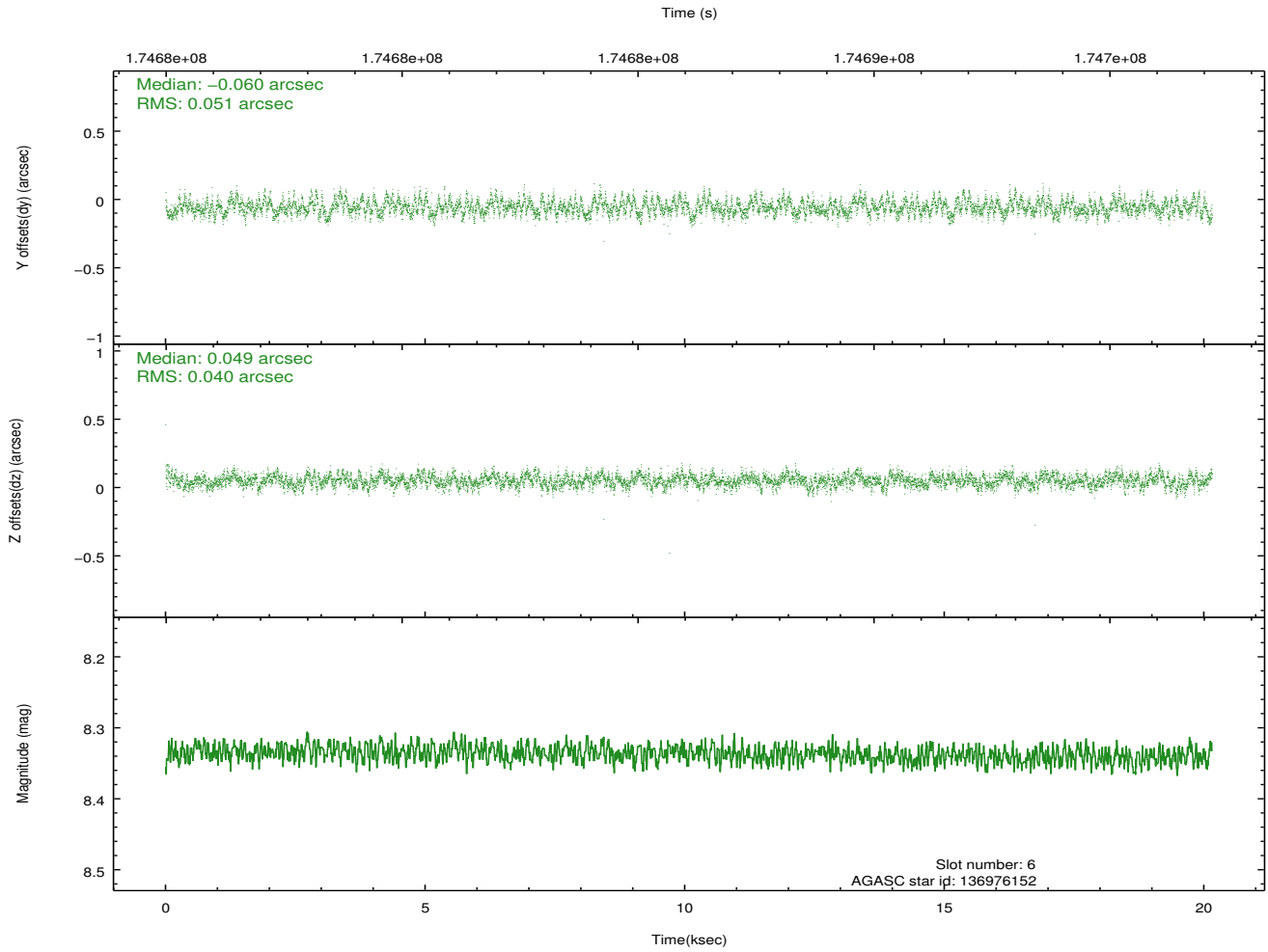
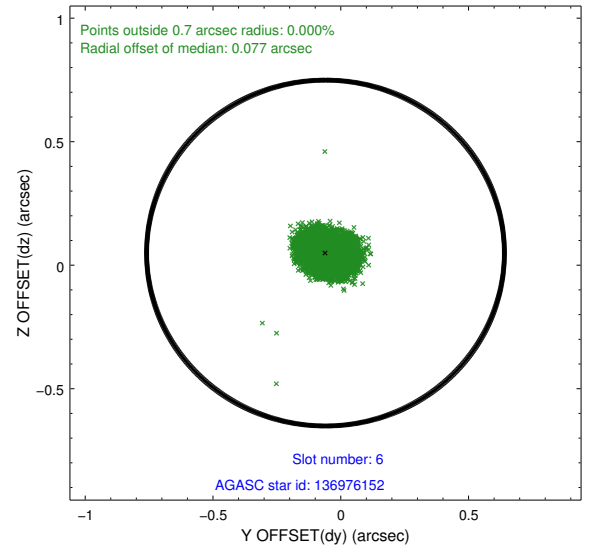
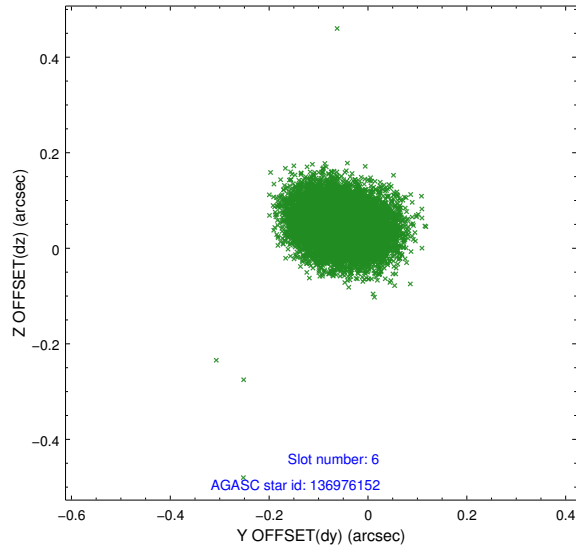




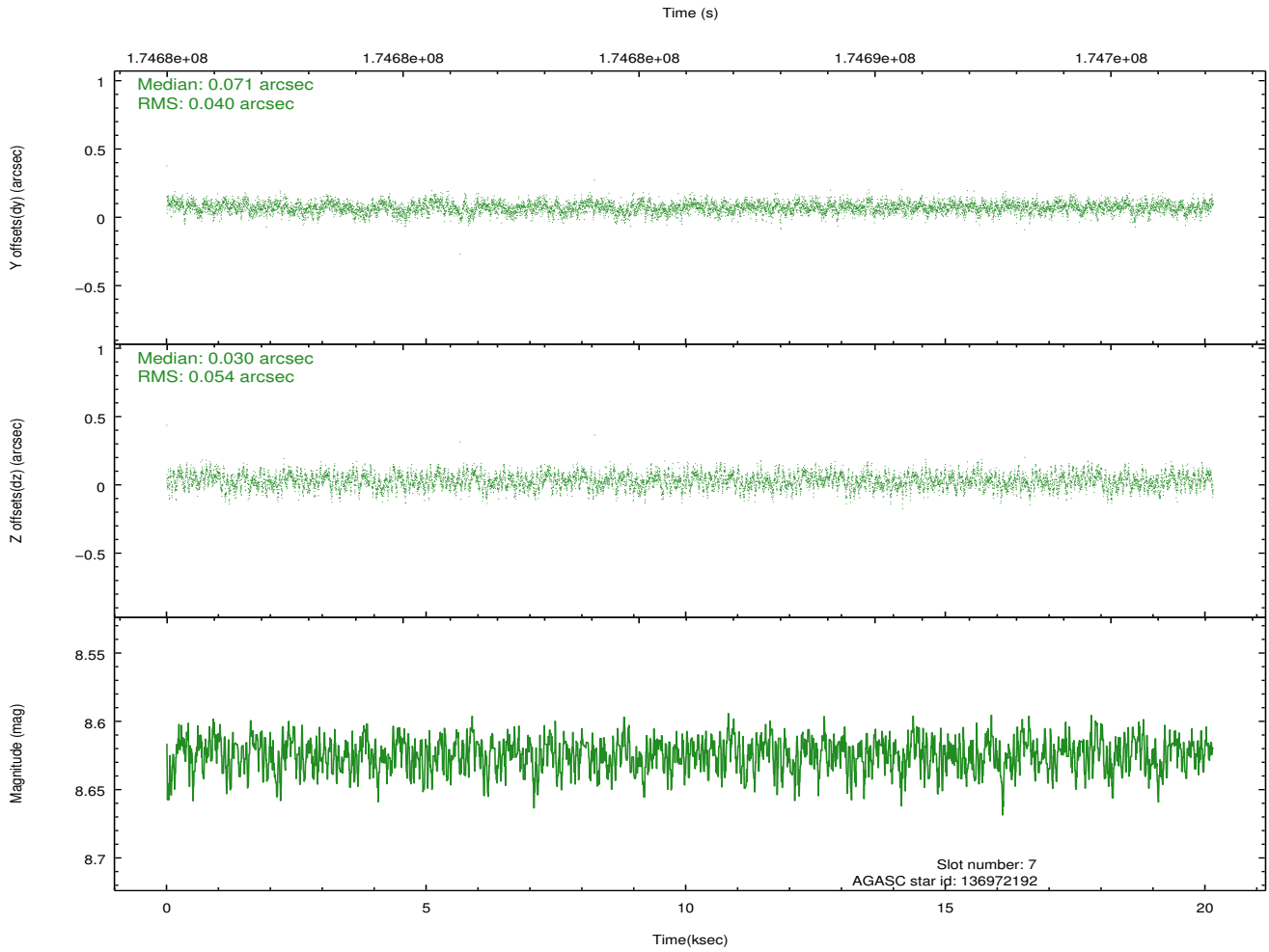
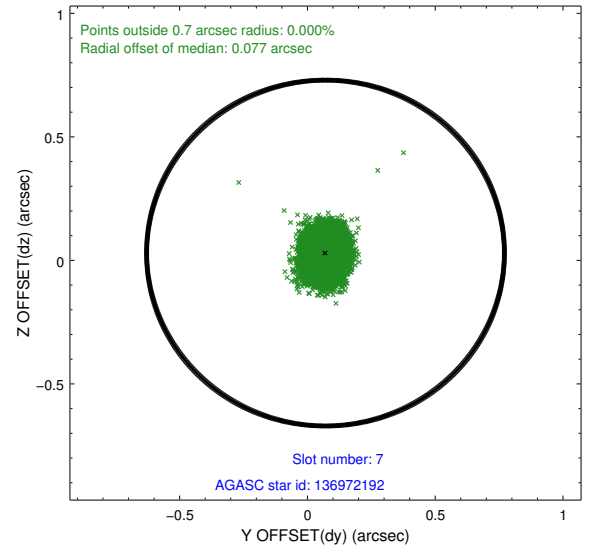
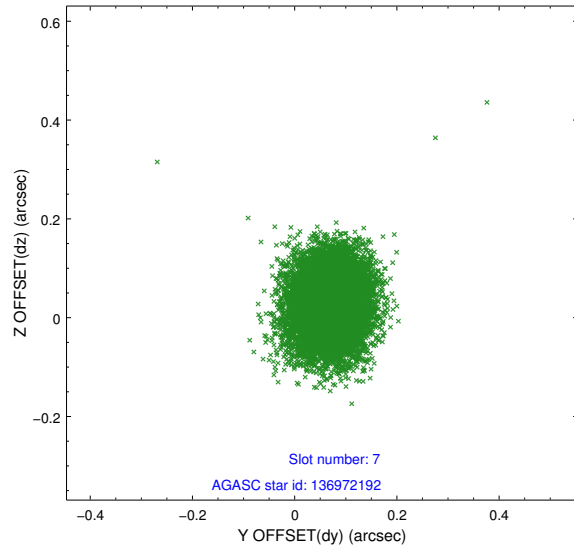
### 2.4.3 Slot 5



## 2.4.4 Slot 6

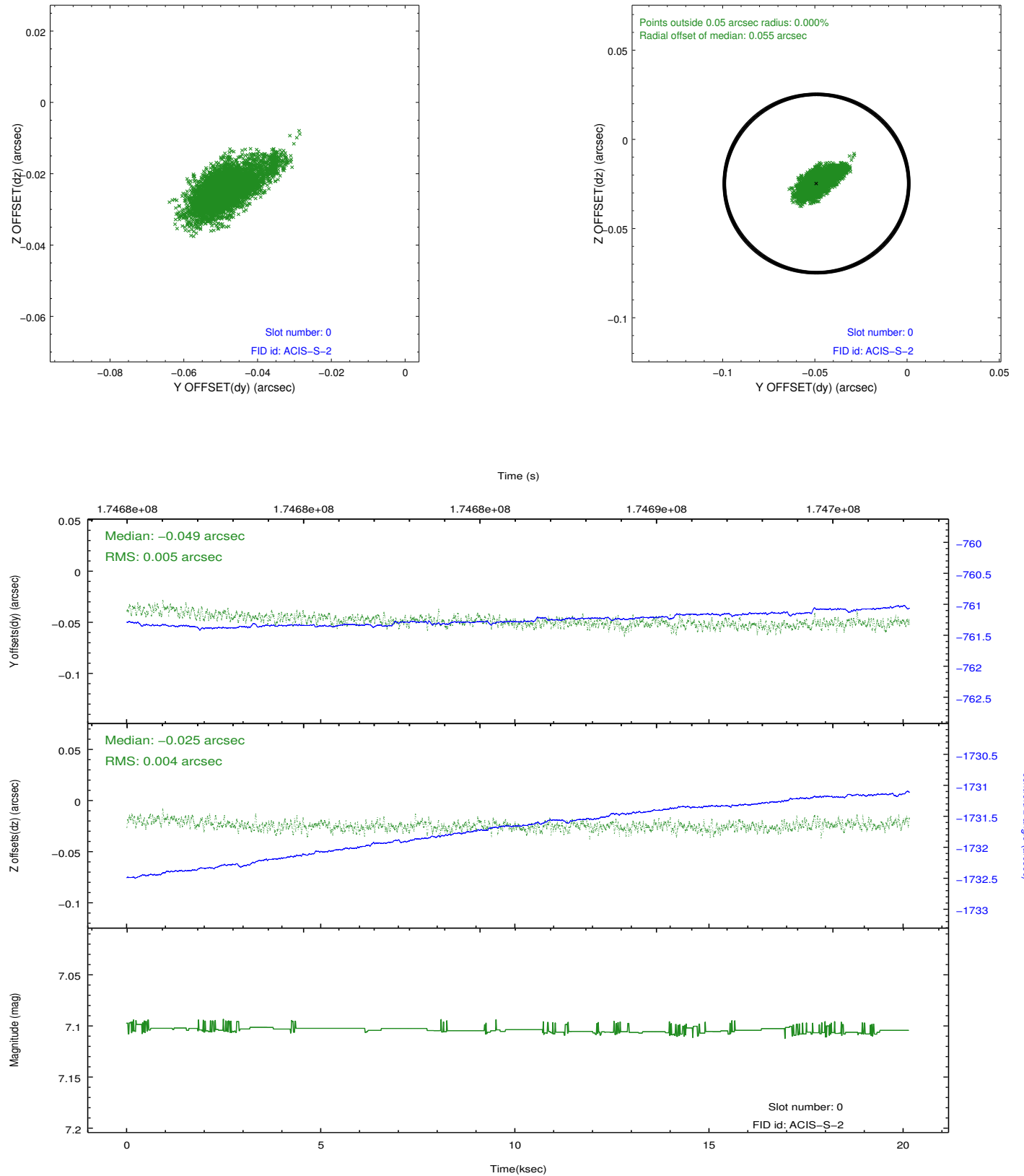


## 2.4.5 Slot 7

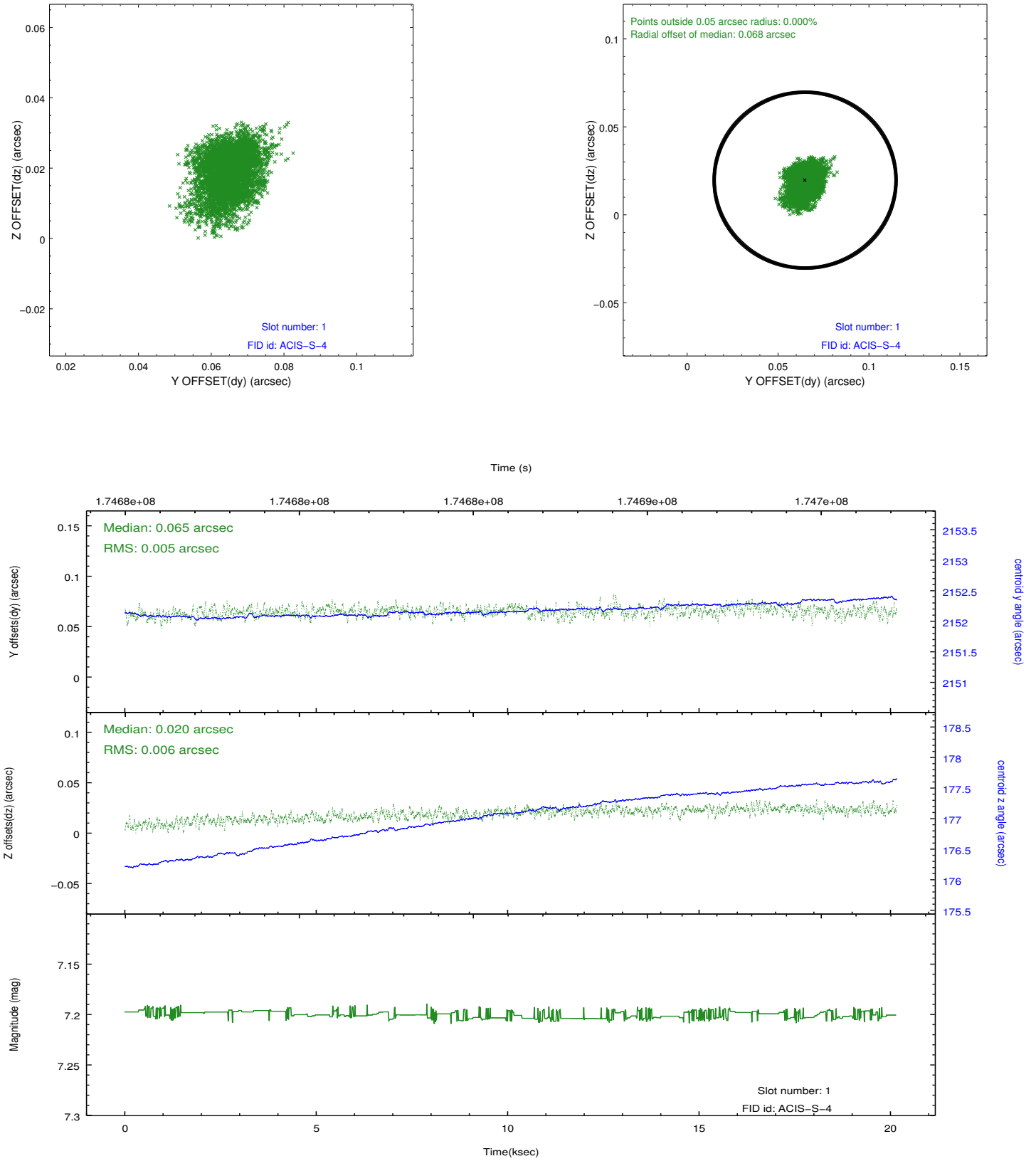


## 2.5 FID Slots

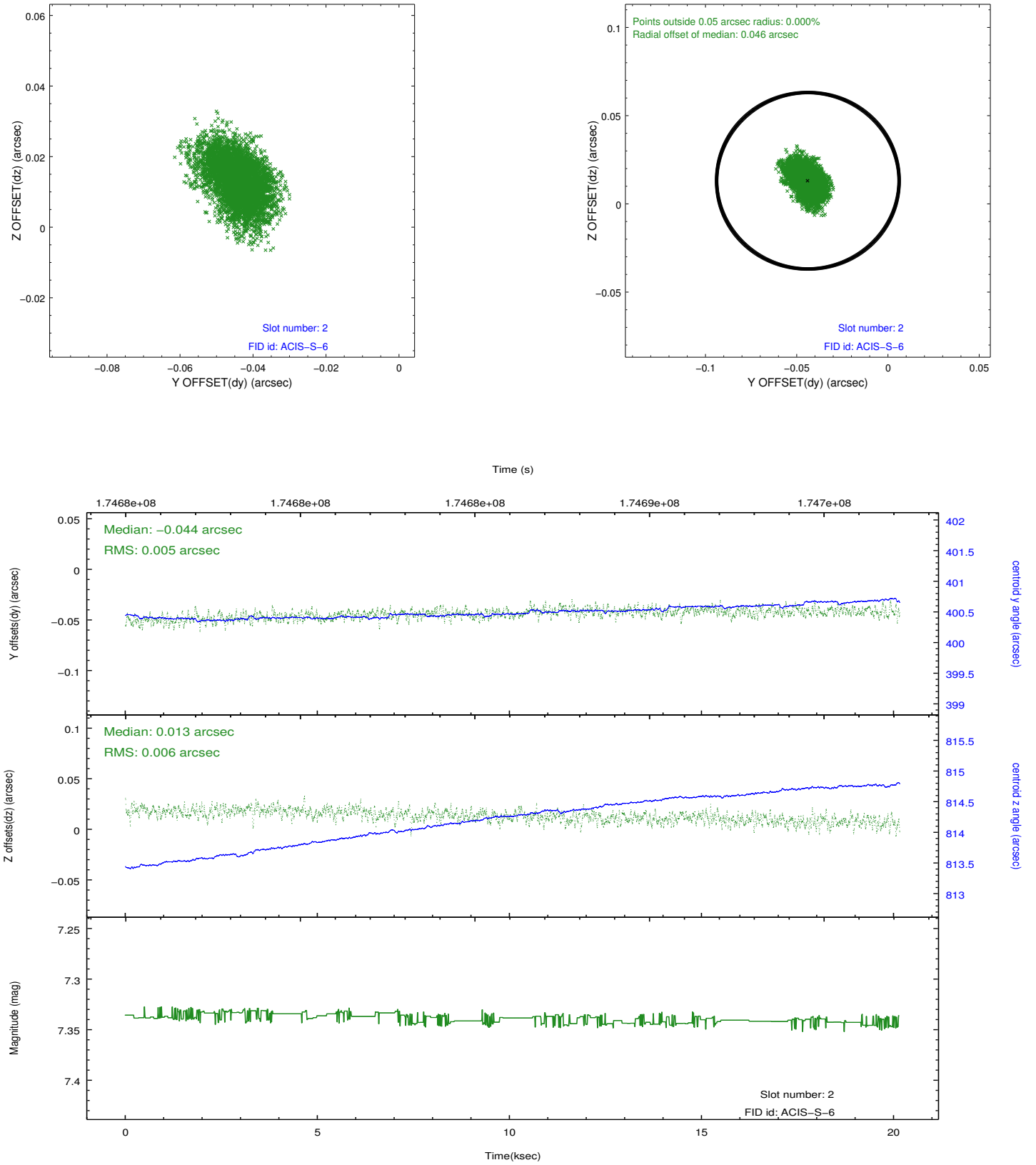
### 2.5.1 Slot 0



## 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)	2012.11.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	19.801

### A.2 Comments