

# V&V Reference Report

## L2 ASCDS Version : 8.4.3.1

Observation 6968 - L2 Version 2  
Chandra X-Ray Center

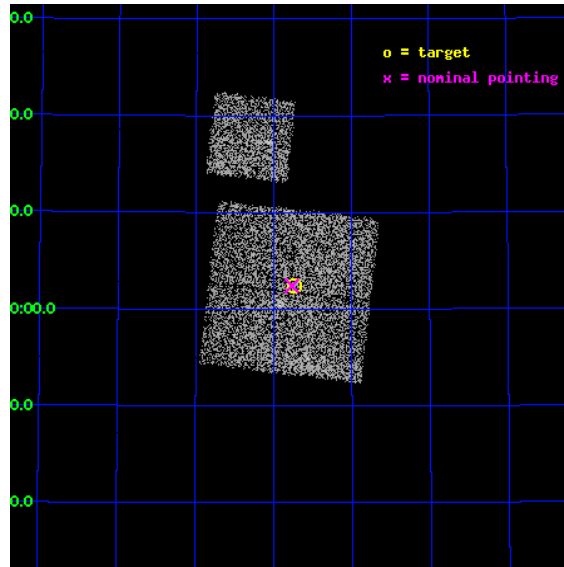
L2 Processing Date : Apr 9 2012

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# 1 Front

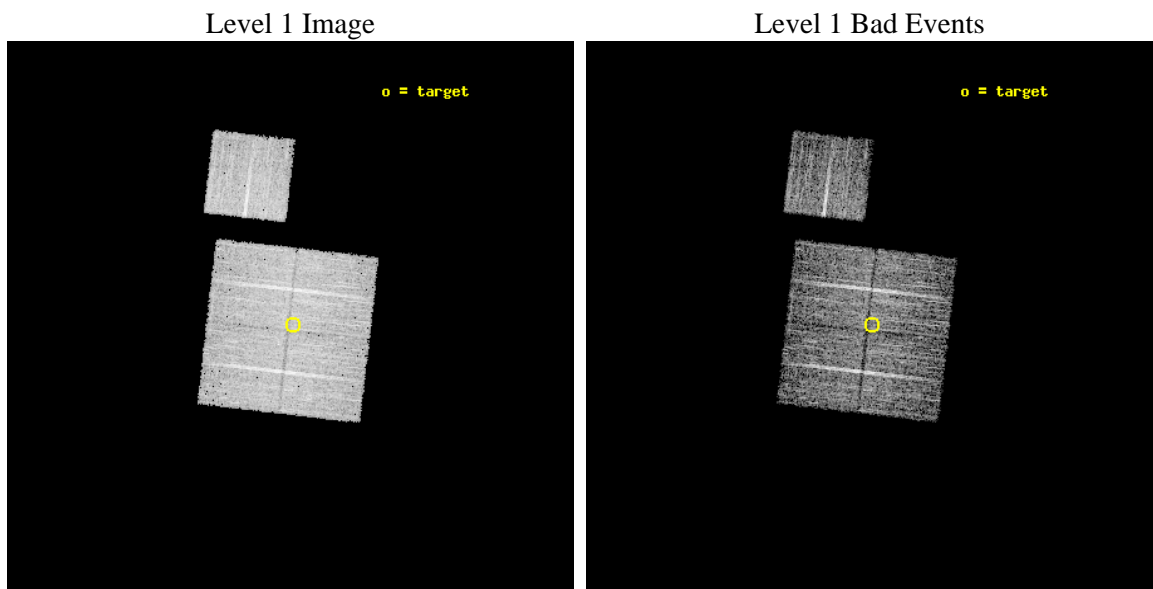
seq_num	800601	Sequence number
obs_id	6968	Observation id
title	A Search for the Origin of Ultrahigh Energy Cosmic Rays	Proposal t
observer	Prof. David Helfand	Principal investigator
object	P12	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	168.184	Observer's specified target RA [deg]
dec_targ	57.0417	Observer's specified target Dec [deg]
ra_nom	168.19206473759	Nominal RA [deg]
dec_nom	57.040479994155	Nominal Dec [deg]
roll_nom	6.5748268100612	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5180.0181192756	Sum of GTIs [s]
livetime	5112.3373690734	Livetime [s]
ontime0	5186.3000398874	Sum of GTIs [s]
ontime1	5183.1590496302	Sum of GTIs [s]
ontime2	5186.3000398874	Sum of GTIs [s]
ontime3	5180.0181192756	Sum of GTIs [s]
ontime6	5186.3000398874	Sum of GTIs [s]
l2events	16664	Number of level 2 events



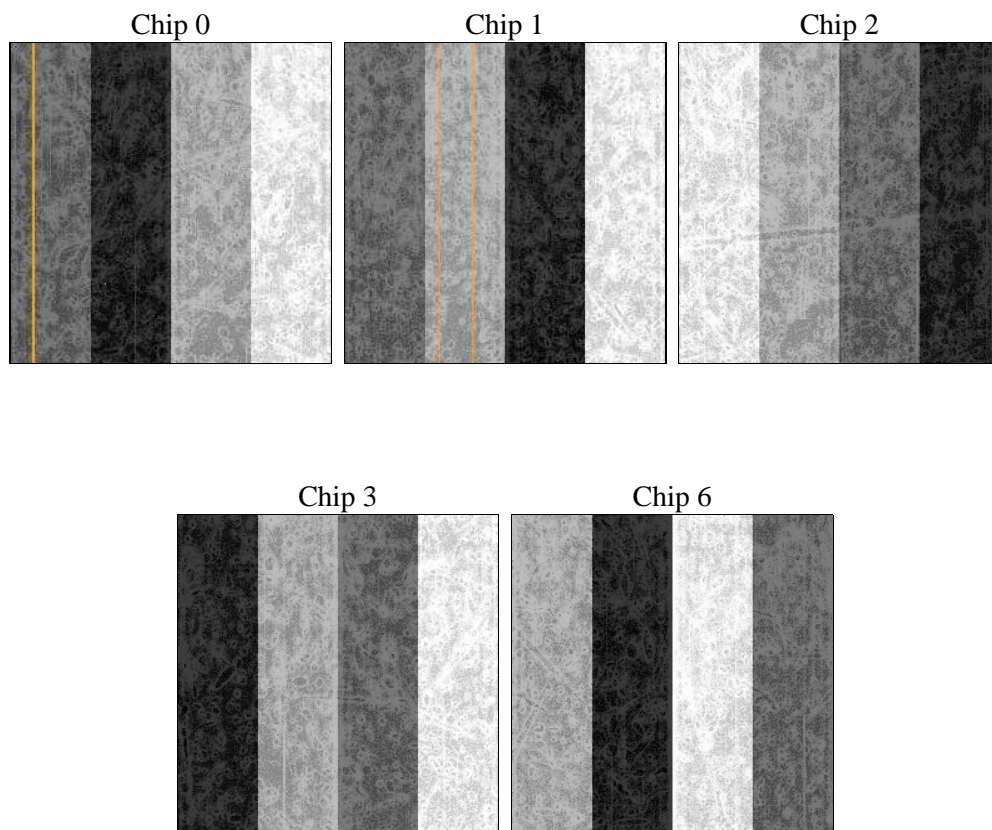
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3.1	Processing system revision	ontime	5180.0181192756	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime0	5186.3000398874	Sum of GTIs [s]
date	2012-04-09T15:33:26	Date and time of file creation	ontime1	5183.1590496302	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	5186.3000398874	Sum of GTIs [s]
			ontime3	5180.0181192756	Sum of GTIs [s]
			ontime6	5186.3000398874	Sum of GTIs [s]
			l1events	263056	Number of level 1 events

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	49573	50547	55006	54445	53485
rejected events	45528	46106	51271	50554	49509
rejected %	91%	91%	93%	92%	92%

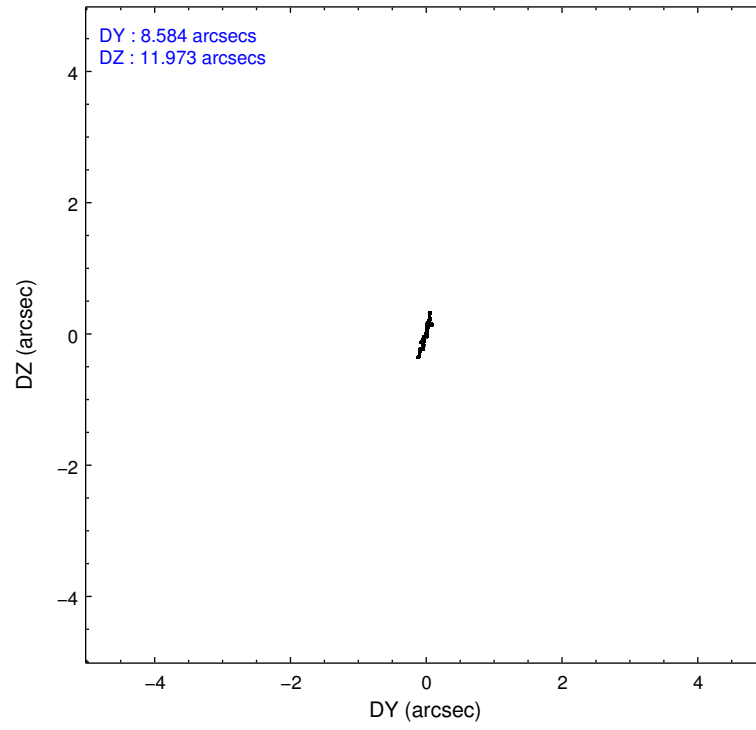
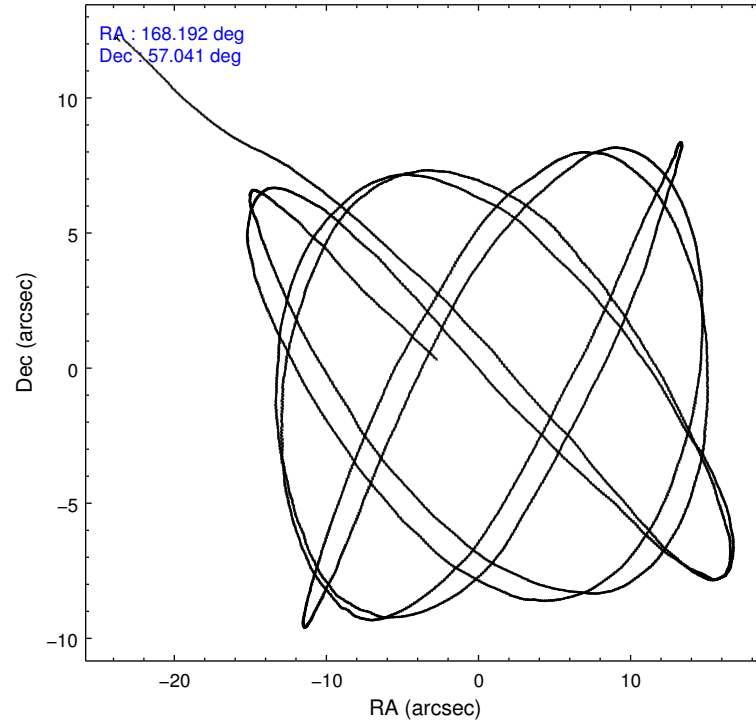
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	1972	2226	1861	1987	1882
	3%	4%	3%	3%	3%
grade 1 events	25	25	28	33	29
	0%	0%	0%	0%	0%
grade 2 events	1279	1350	1254	1112	1153
	2%	2%	2%	2%	2%
grade 3 events	599	659	547	582	623
	1%	1%	0%	1%	1%
grade 4 events	593	610	570	549	620
	1%	1%	1%	1%	1%
grade 5 events	1837	2026	1646	2129	2101
	3%	4%	2%	3%	3%
grade 6 events	991	1211	891	1006	1174
	1%	2%	1%	1%	2%
grade 7 events	42277	42440	48209	47047	45903
	85%	83%	87%	86%	85%

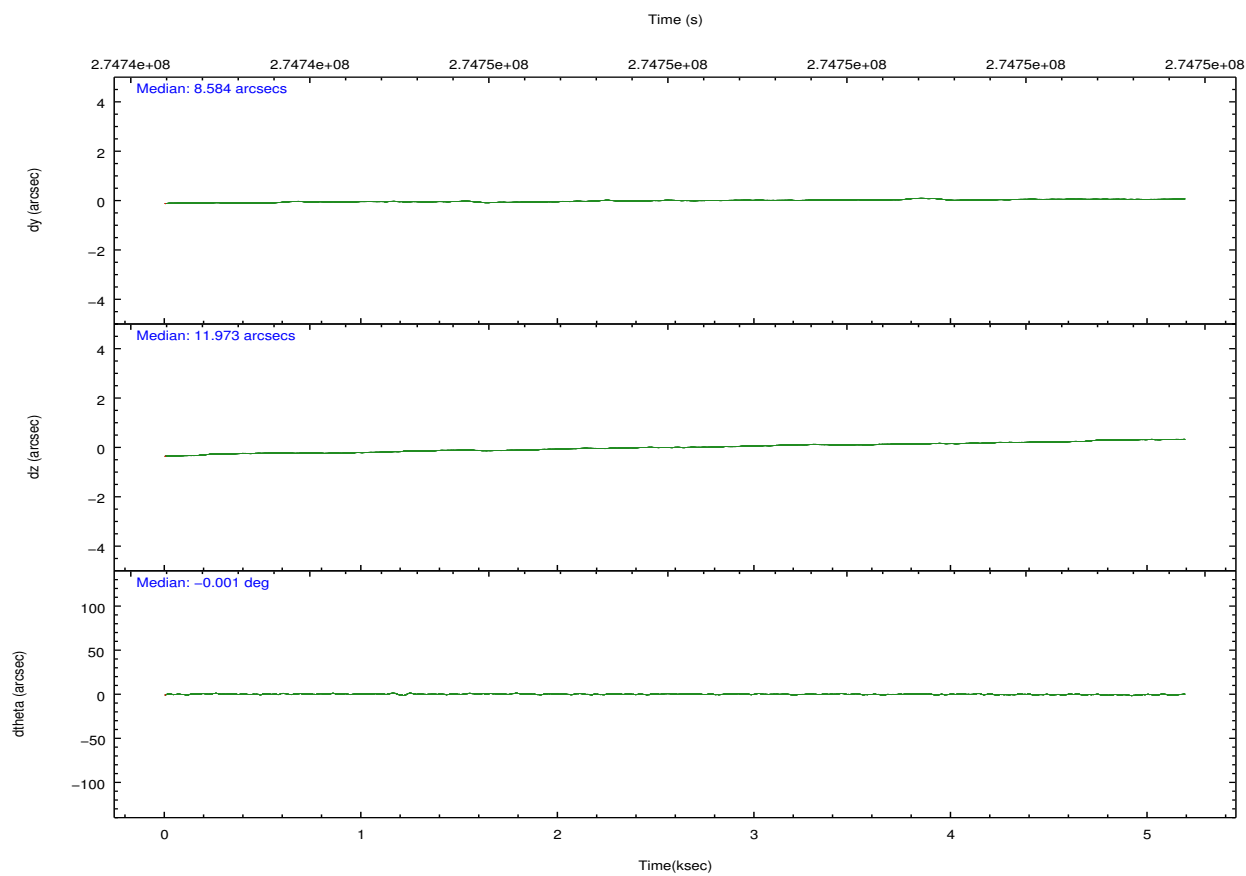
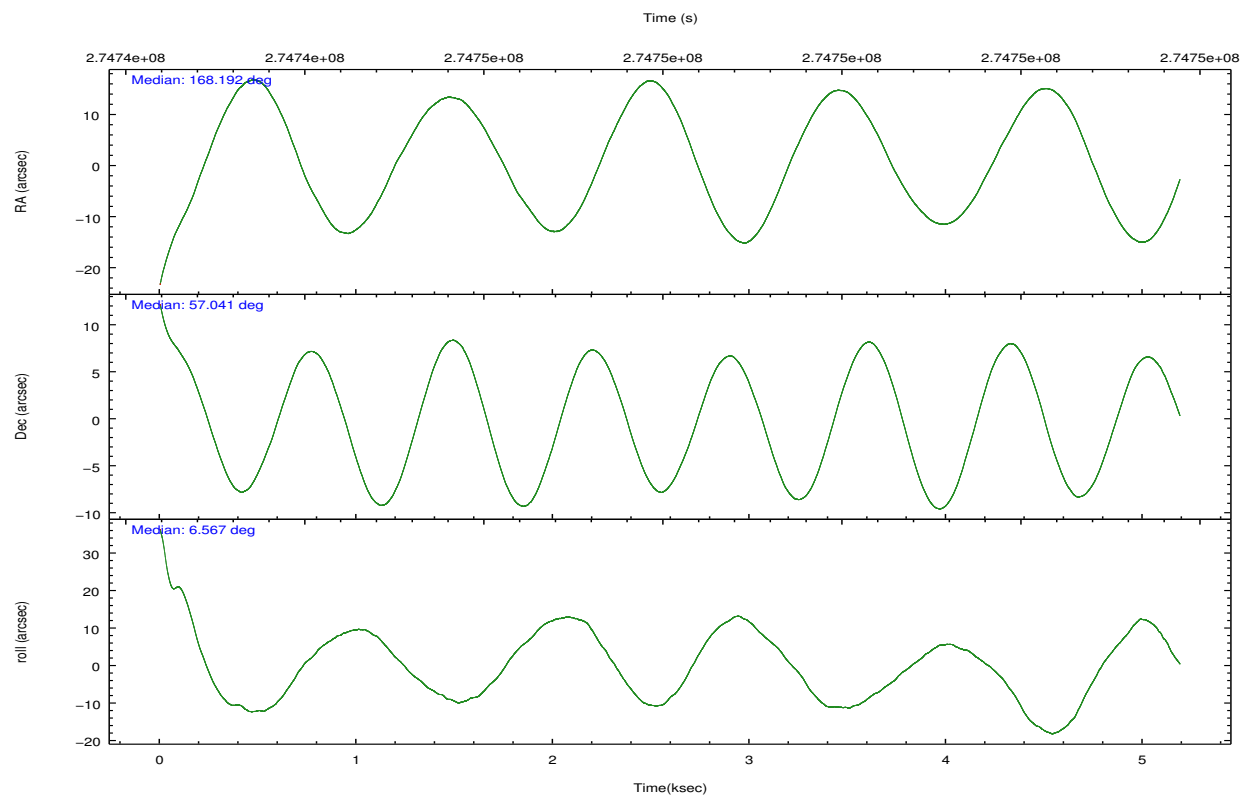


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01236	ACIS-01236	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	168.151896	168.1920647375919	Subarray requested	NONE	NONE
[deg] Pointing Dec	57.023971	57.04047999415532	Alternating exposures requested	N	N
[deg] Pointing Roll	6.399829	6.574826810061169	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	274744642.184000	274742637.70575			
Observation start date	2006-09-15T21:56:17	2006-09-15T21:23:57			
[s] Observation end time (MET)	274749642.184000	274750229.36861			
Observation end date	2006-09-15T23:19:37	2006-09-15T23:30:29			
Read mode	TIMED	TIMED			

## 2.3 Aspect



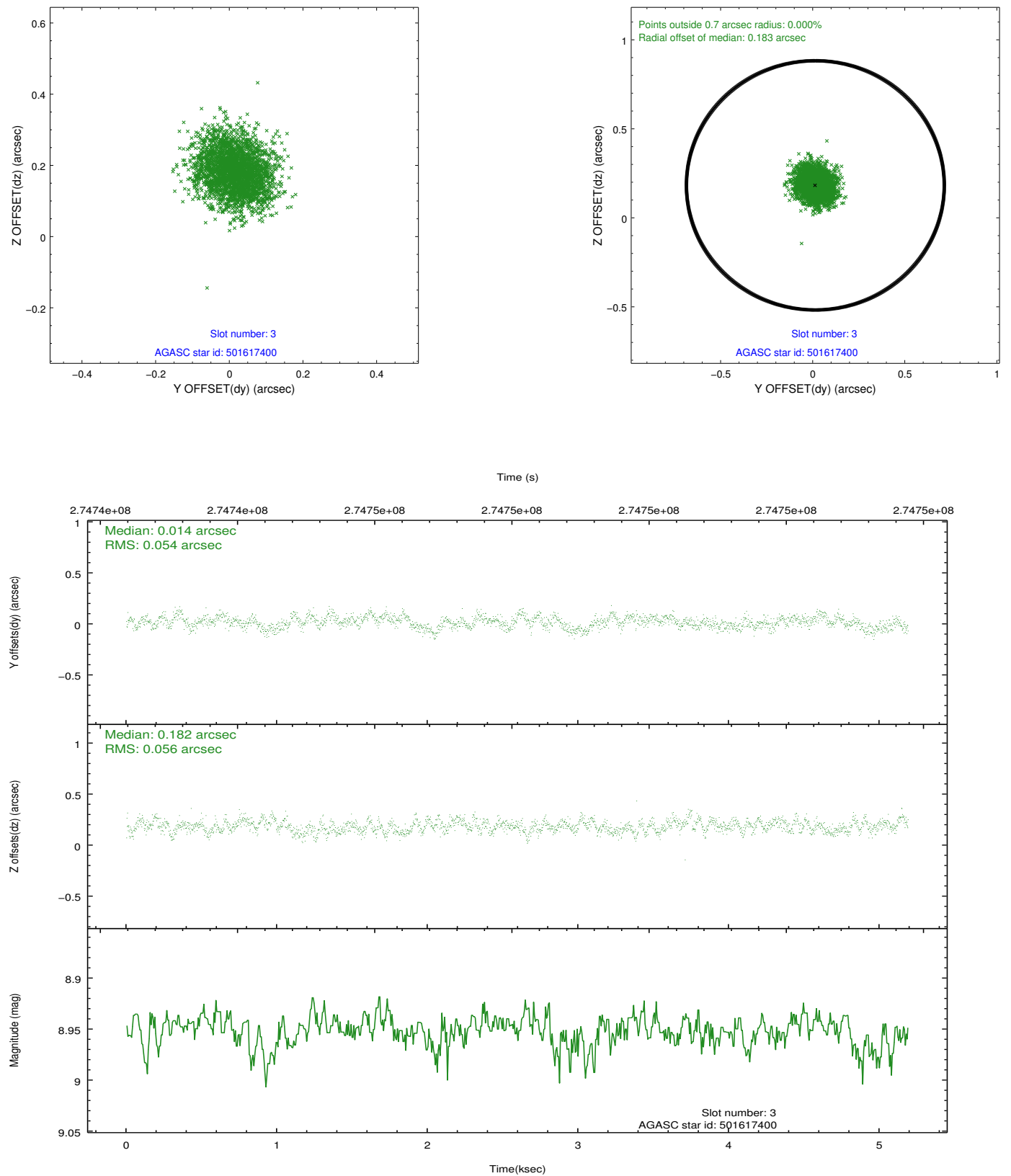


### Slot Statistics

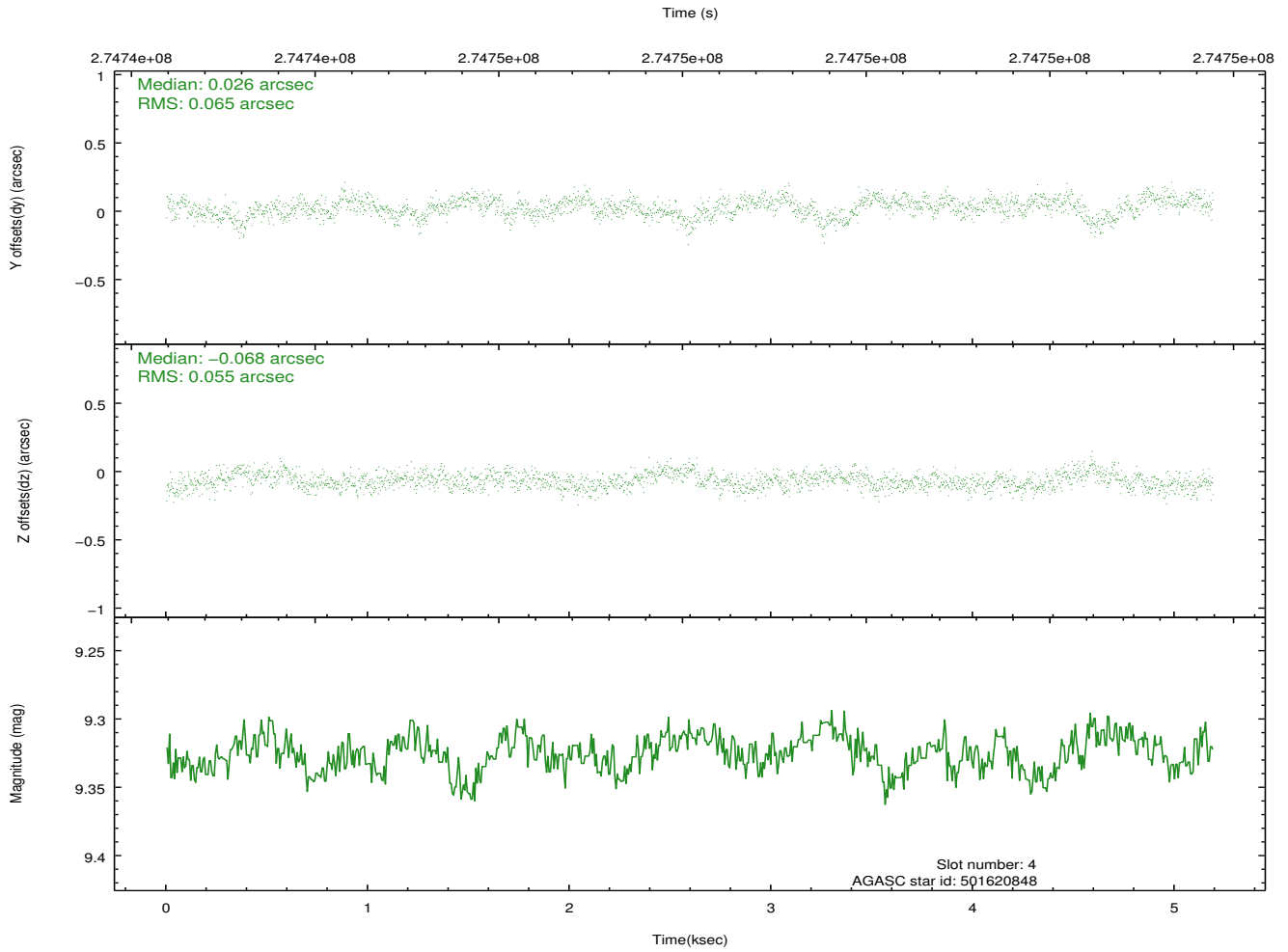
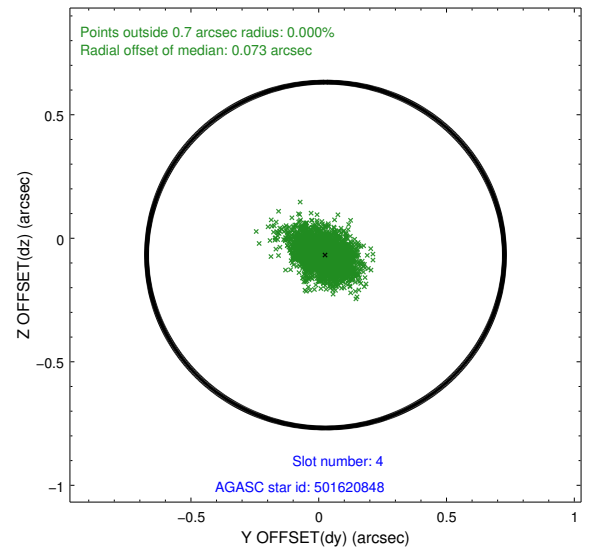
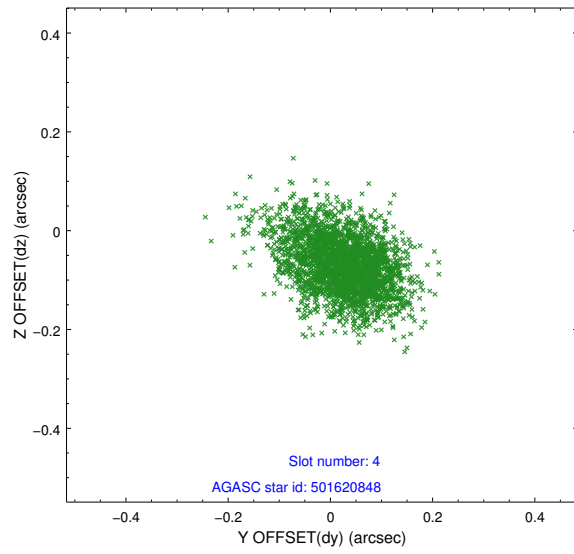
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.24	1266	0.062	-0.046	0.008	0.014	0.000000	0.000000	931.11	-835.56
1	FID	ACIS-I-5	7.23	1266	-0.200	0.065	0.006	0.010	0.000000	0.000000	-1816.58	1061.51
2	FID	ACIS-I-6	7.24	1266	0.047	0.052	0.009	0.015	0.000000	0.000000	395.42	1707.28
3	GUIDE	501617400	8.95	2531	0.014	0.182	0.083	0.132	167.619761	56.497458	-1261.11	-1762.10
4	GUIDE	501620848	9.33	2516	0.026	-0.068	0.089	0.148	167.963691	57.281851	-260.57	962.72
5	GUIDE	501747056	10.31	2519	-0.144	0.163	0.162	0.281	169.256851	56.508688	1976.96	-2070.07
6	GUIDE	502011920	8.22	2531	0.082	-0.290	0.083	0.138	167.284488	57.617887	-1421.38	2320.03
7	GUIDE	502137856	10.09	2530	0.024	0.012	0.130	0.209	169.016576	57.682544	1919.11	2181.57

## 2.4 Star Slots

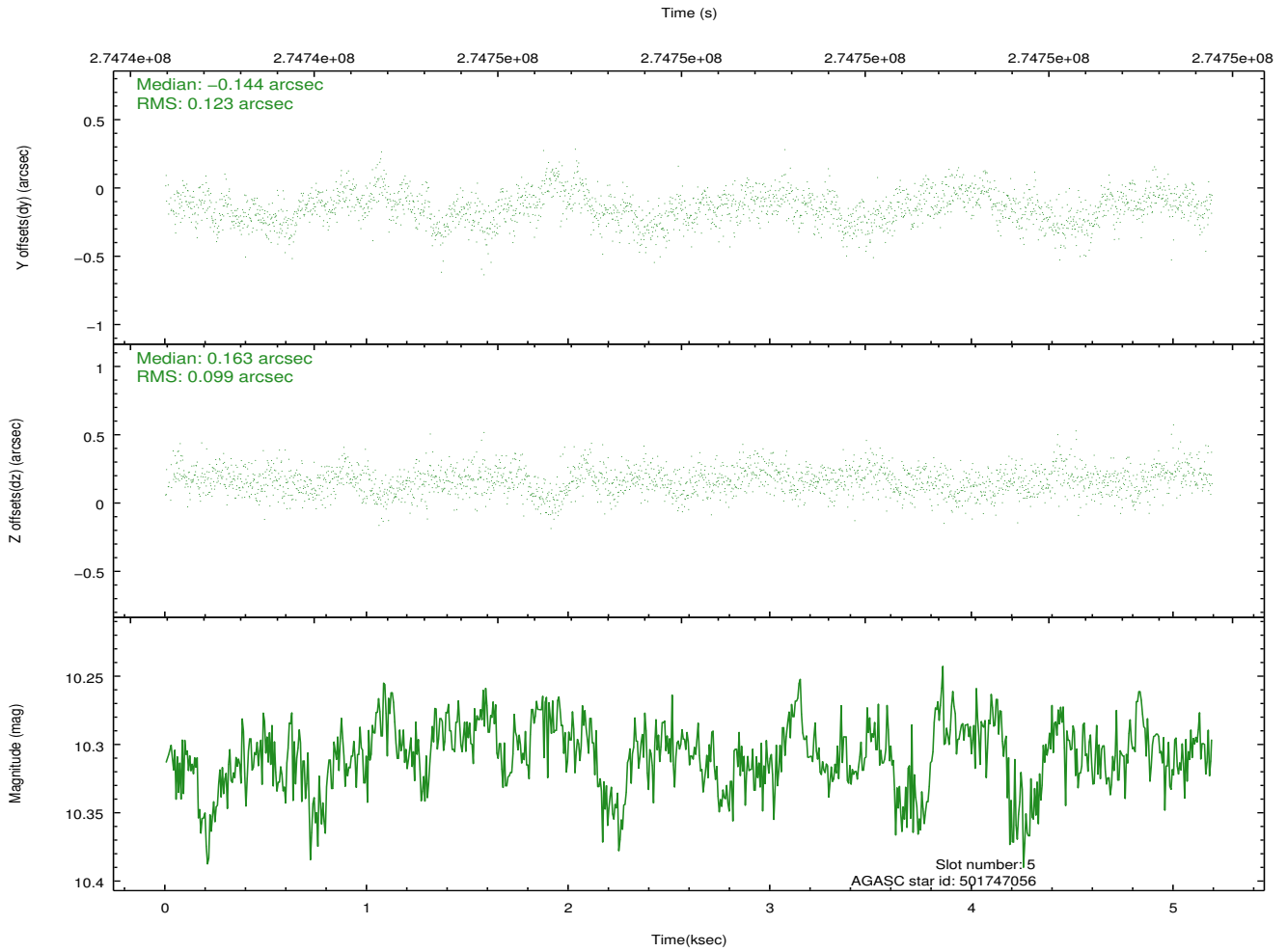
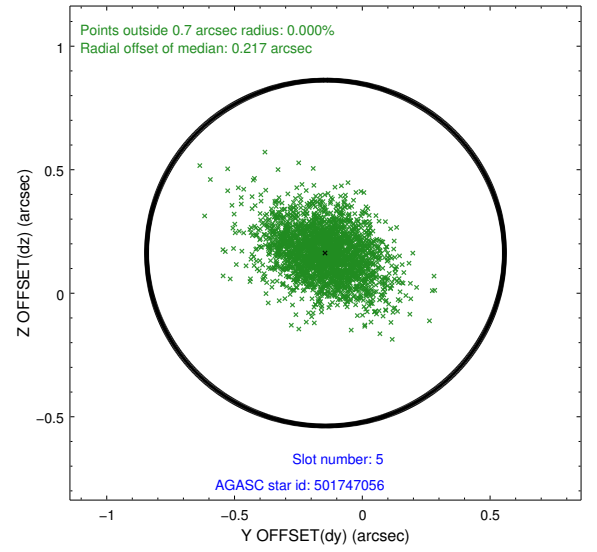
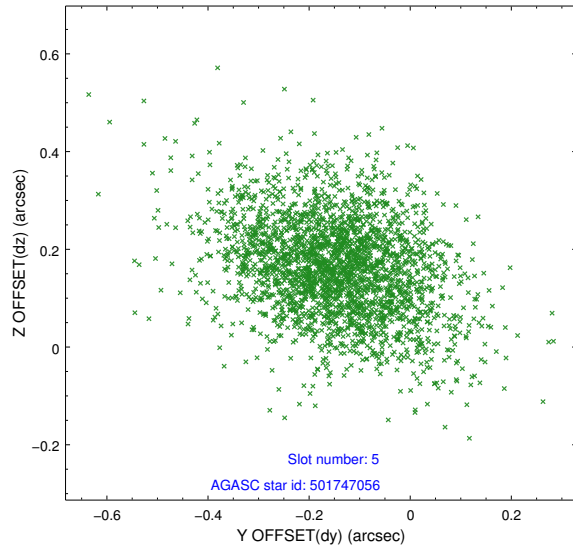
### 2.4.1 Slot 3



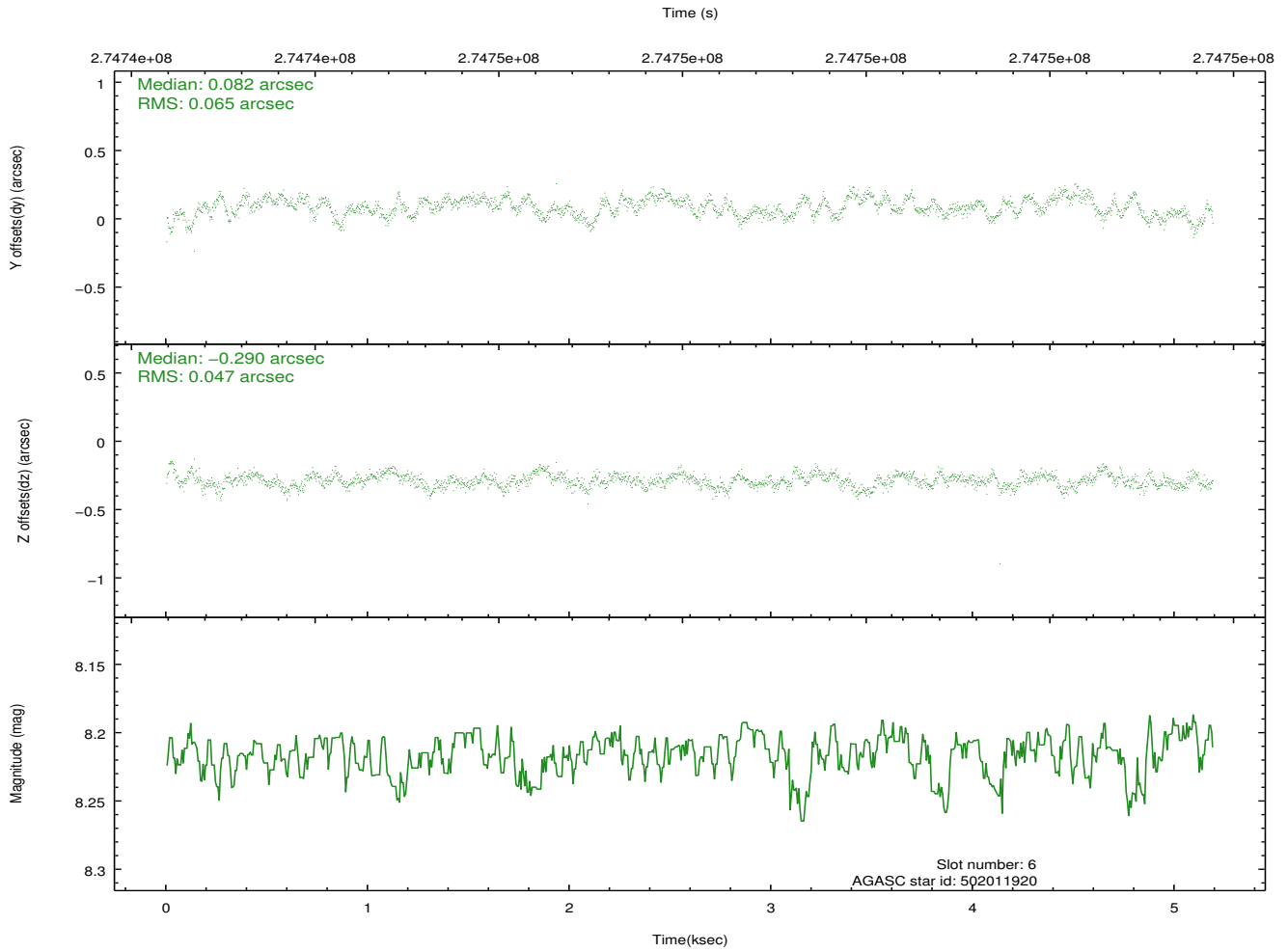
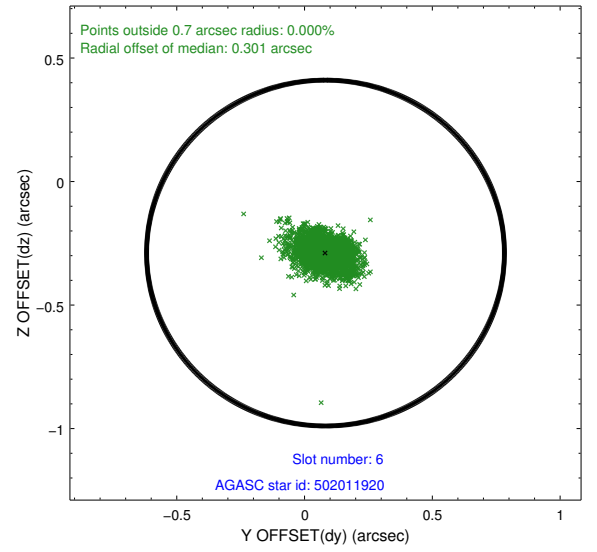
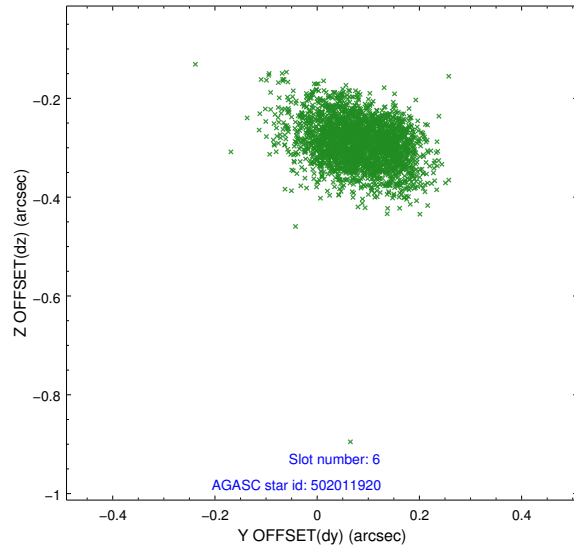
## 2.4.2 Slot 4



### 2.4.3 Slot 5

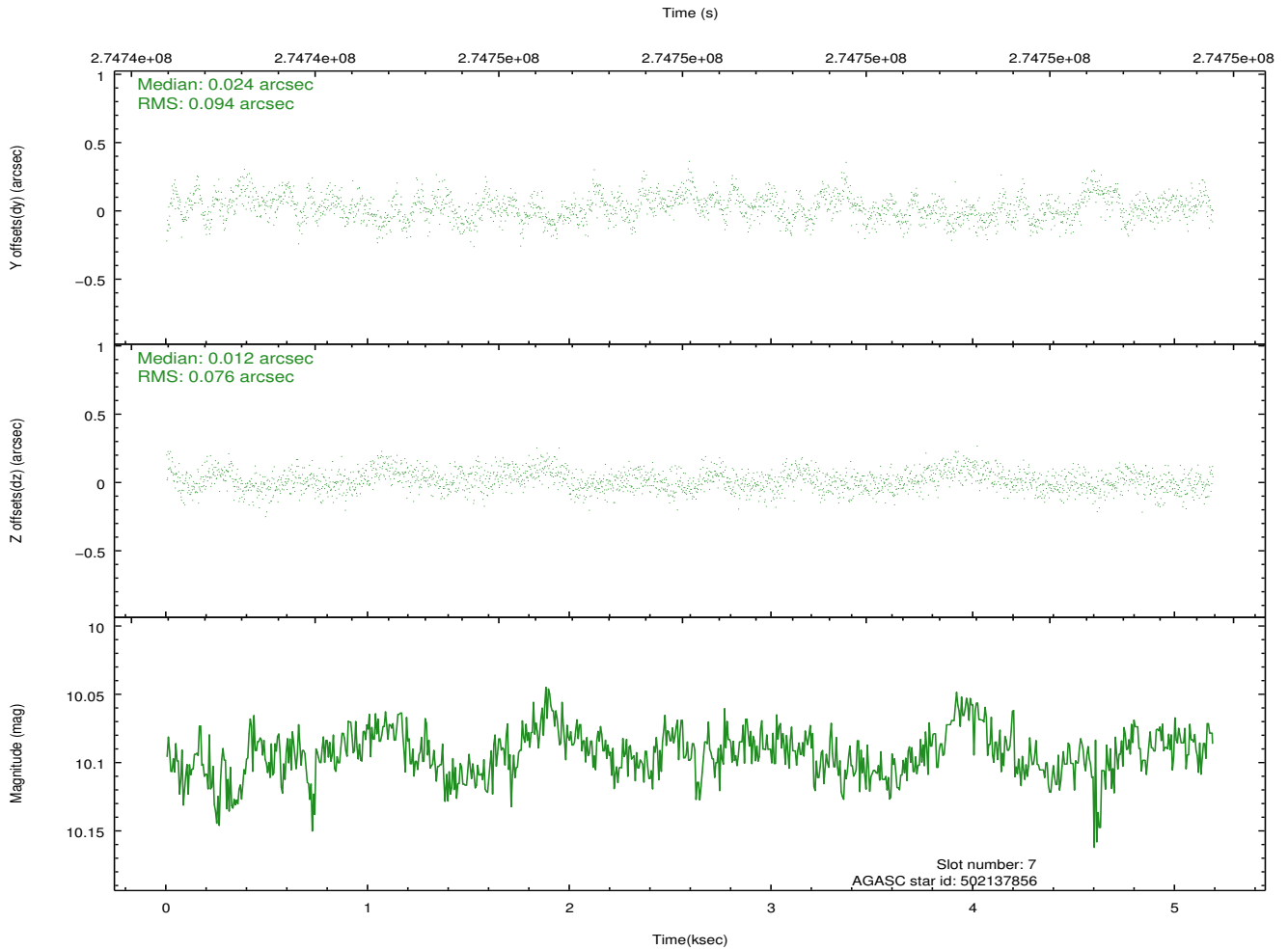
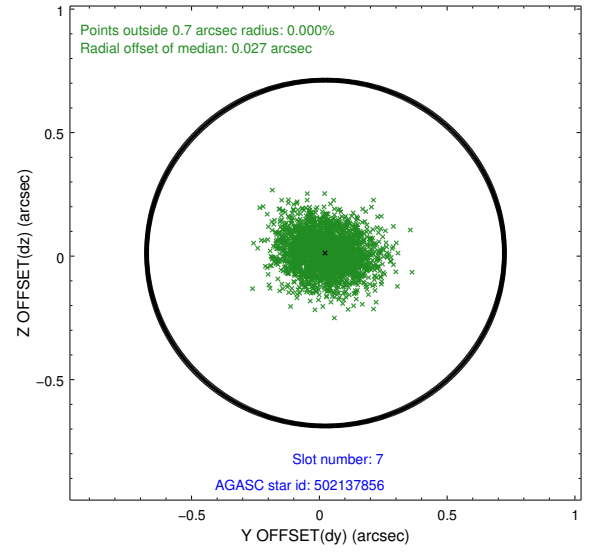
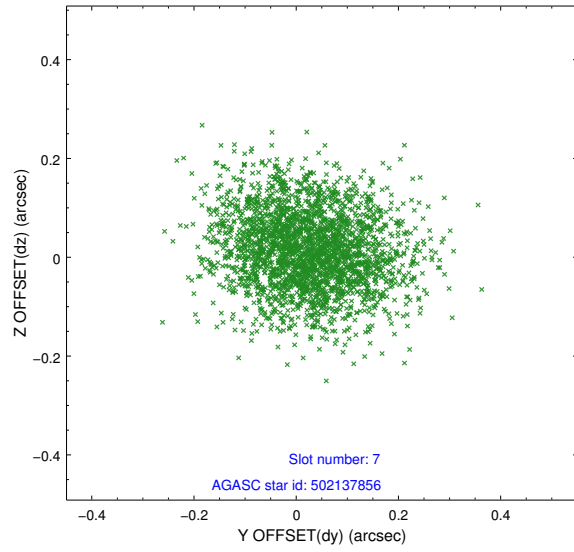


## 2.4.4 Slot 6



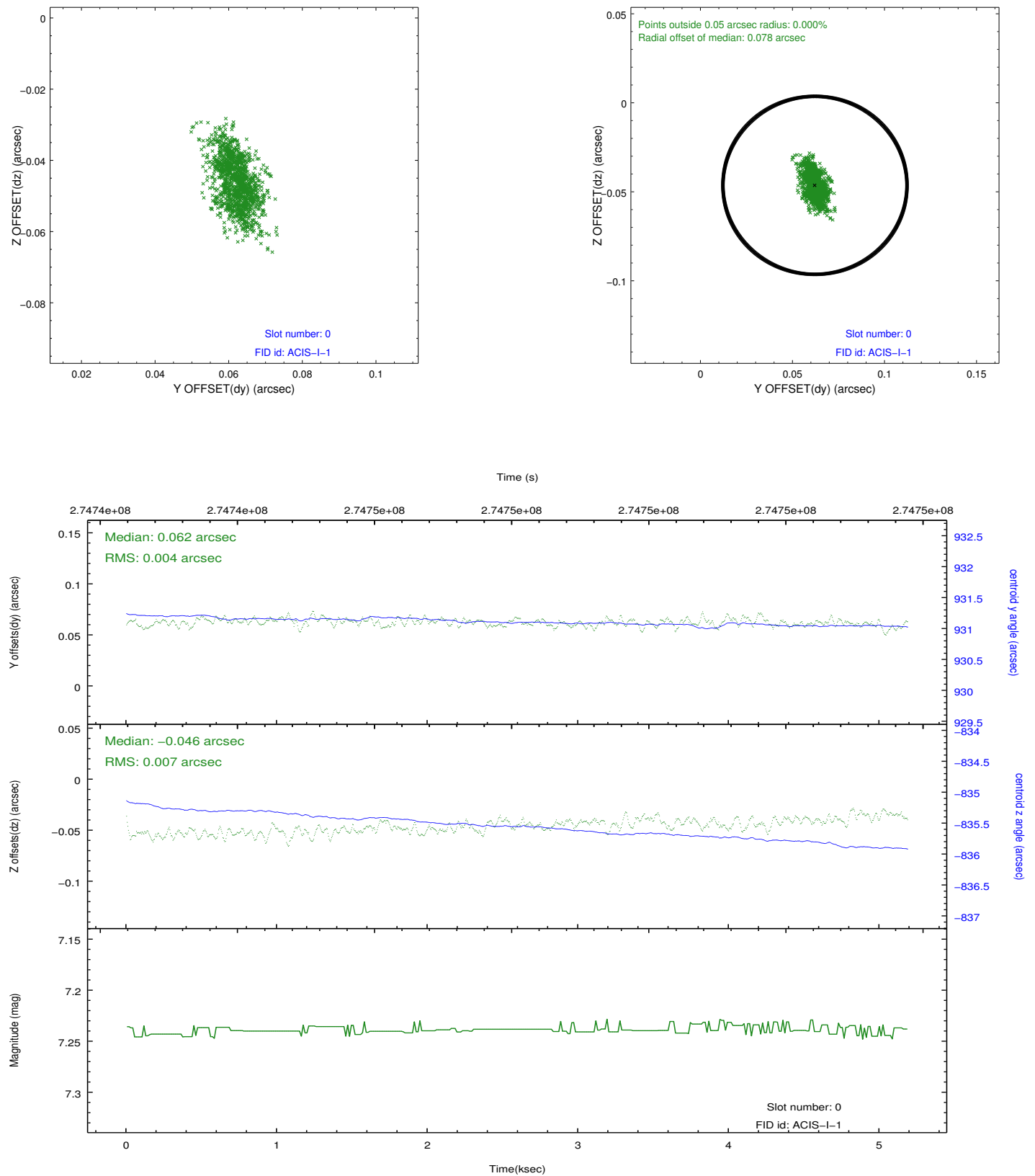


## 2.4.5 Slot 7

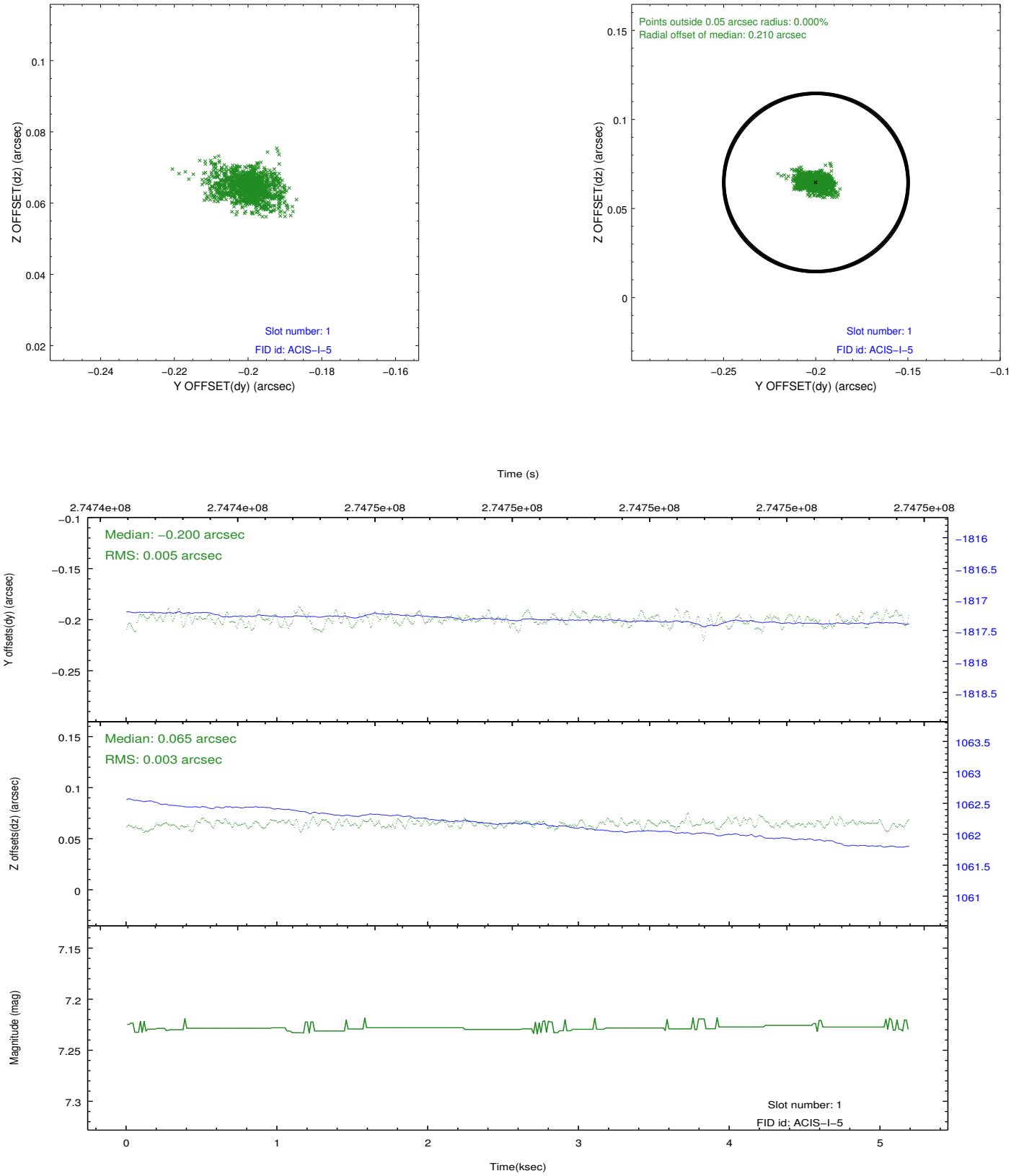


## 2.5 FID Slots

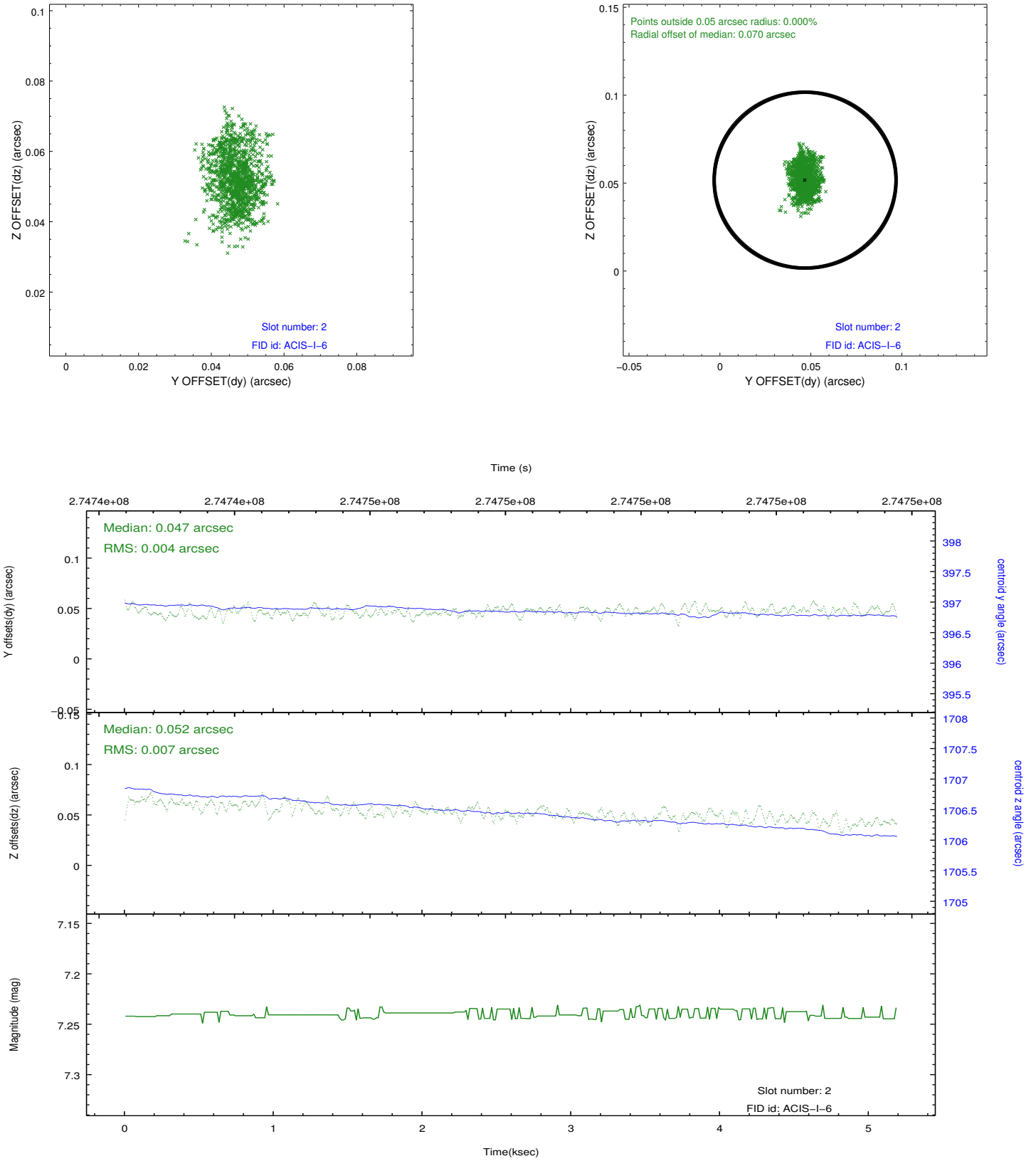
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.04.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.18001811

### A.2 Comments