

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 7573 - L2 Version 2  
Chandra X-Ray Center

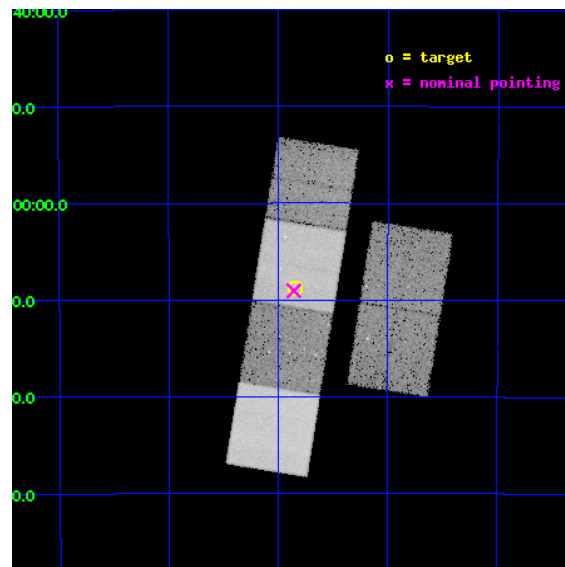
L2 Processing Date : May 26 2012

## 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	500705	Sequence number
obs_id	7573	Observation id
title	A Search for Jet Breaks in Long GRB afterglows	Proposal title
observer	Professor Gordon Garmire	Principal investigator
object	GRB 081007	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	339.960417	Observer's specified target RA [deg]
dec_targ	-40.147306	Observer's specified target Dec [deg]
ra_nom	339.96454136247	Nominal RA [deg]
dec_nom	-40.150972910257	Nominal Dec [deg]
roll_nom	279.15928466309	Nominal Roll [deg]
revision	2	Processing version of data
ontime	25148.799906373	Sum of GTIs [s]
liveltime	24830.350659169	Livetime [s]
ontime2	25148.799906373	Sum of GTIs [s]
ontime3	25148.799906373	Sum of GTIs [s]
ontime5	25148.799906373	Sum of GTIs [s]
ontime6	25145.558936	Sum of GTIs [s]
ontime7	25148.799906373	Sum of GTIs [s]
ontime8	25148.799906373	Sum of GTIs [s]
l2events	284303	Number of level 2 events

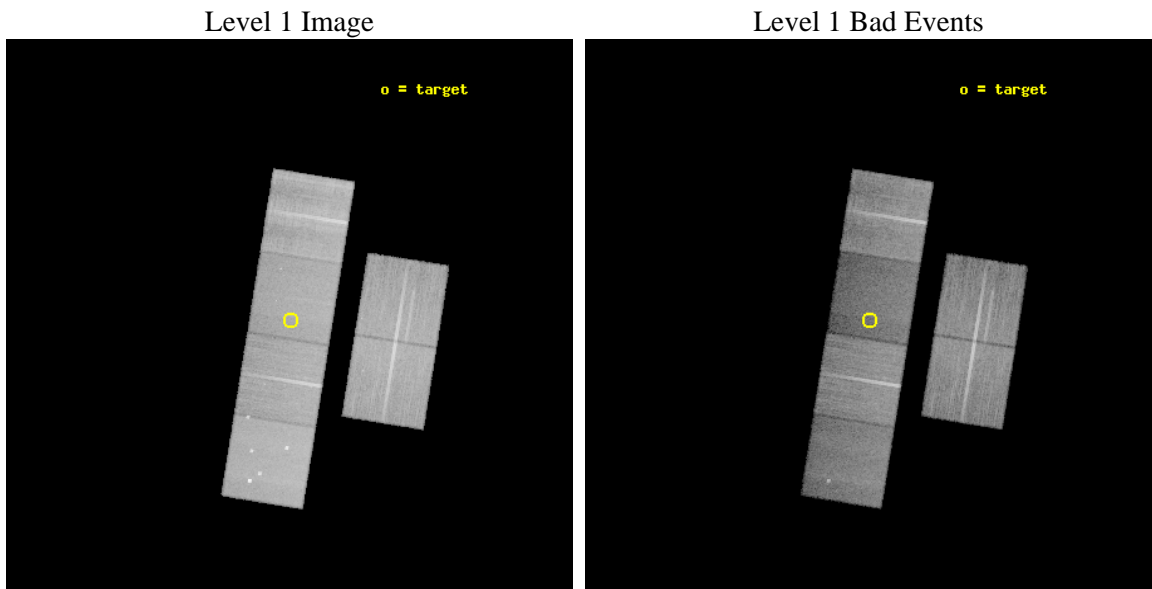




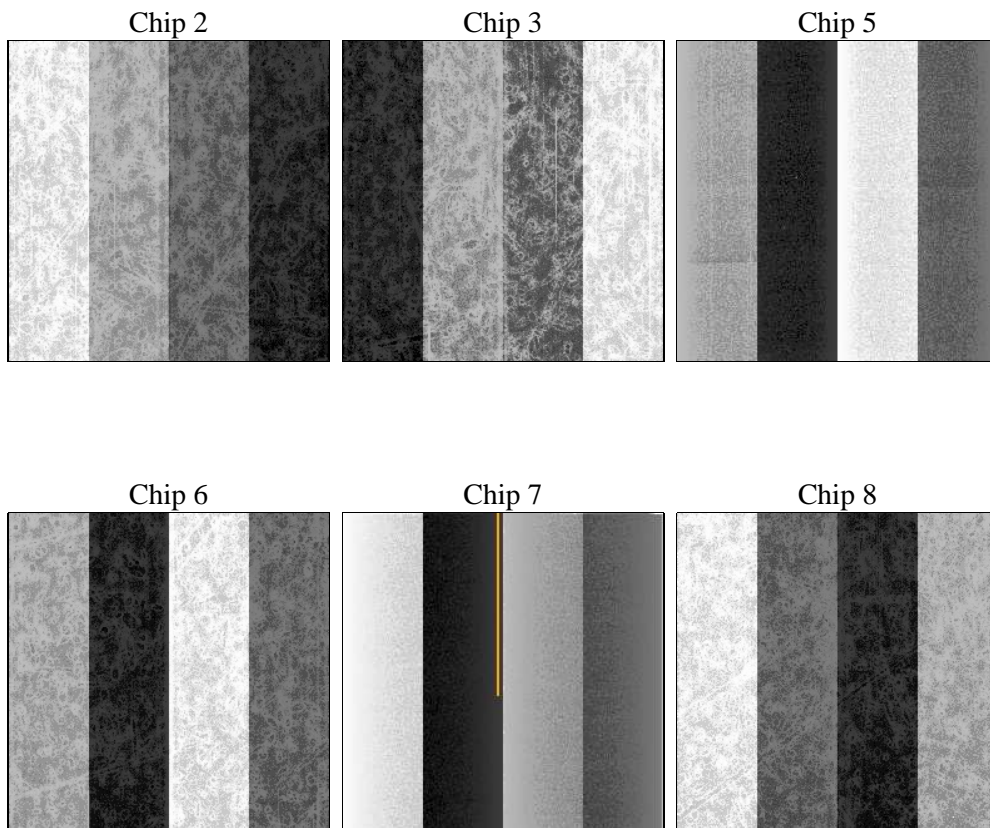
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	25000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	25148.799906373	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime2	25148.799906373	Sum of GTIs [s]
date	2012-05-26T05:25:10	Date and time of file creation	ontime3	25148.799906373	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	25148.799906373	Sum of GTIs [s]
			ontime6	25145.558936	Sum of GTIs [s]
			ontime7	25148.799906373	Sum of GTIs [s]
			ontime8	25148.799906373	Sum of GTIs [s]
			l1events	1310341	Number of level 1 events

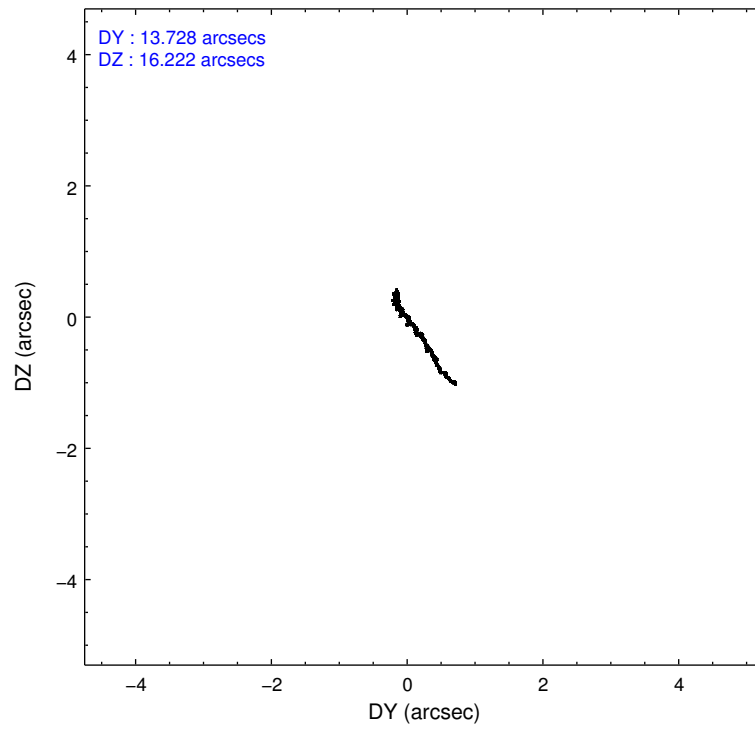
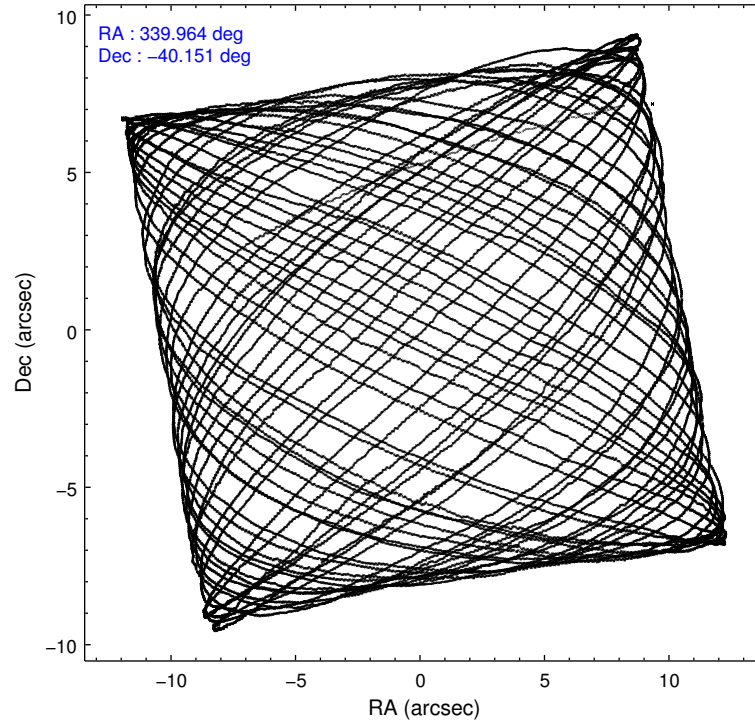
### 2.1.4 Events

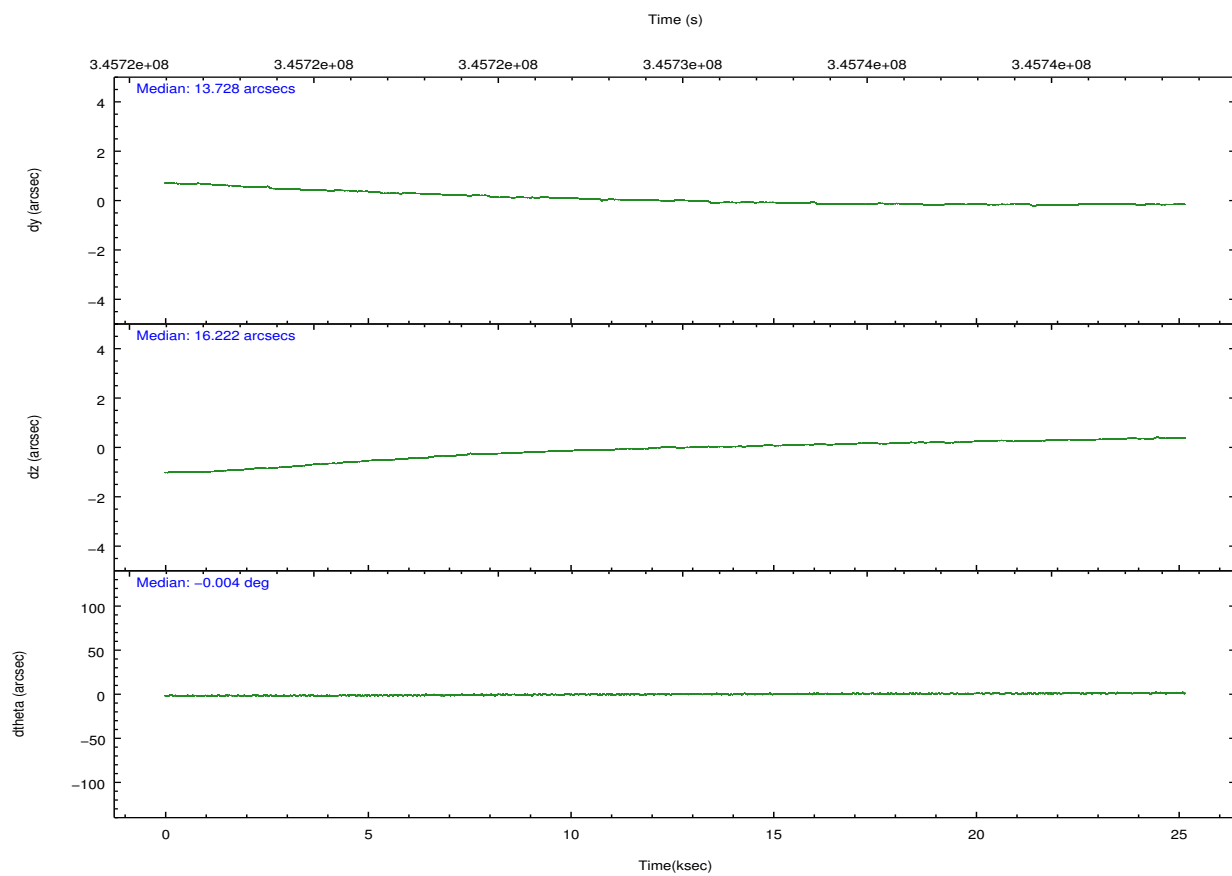
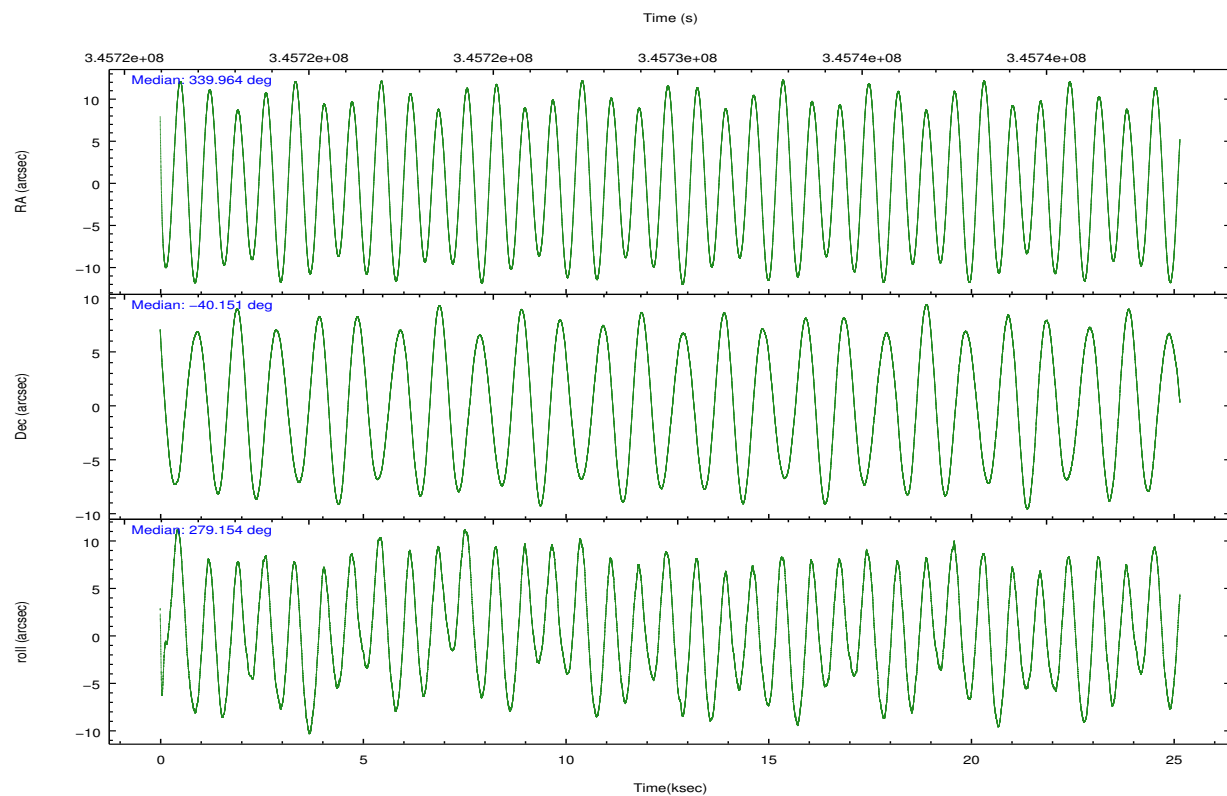
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	211929	194185	257523	203914	191845	250945	grade 0 events	7264	6609	18580	7725	9855	17723
rejected events	192345	176223	119838	183262	97980	188088		3%	3%	7%	3%	5%	7%
rejected %	90%	90%	46%	89%	51%	74%	grade 1 events	131	120	1257	103	316	222
								0%	0%	0%	0%	0%	0%
							grade 2 events	4834	3947	40854	4579	20035	15059
								2%	2%	15%	2%	10%	6%
							grade 3 events	2062	2030	5869	2198	8923	6865
								0%	1%	2%	1%	4%	2%
							grade 4 events	2086	1929	5834	2082	8728	6544
								0%	0%	2%	1%	4%	2%
							grade 5 events	5843	6763	20538	6927	20613	10441
								2%	3%	7%	3%	10%	4%
							grade 6 events	3440	3523	67329	4187	46862	17123
								1%	1%	26%	2%	24%	6%
							grade 7 events	186269	169264	97262	176113	76513	176968
								87%	87%	37%	86%	39%	70%

## 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	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	339.941610	339.9645413624697	CCD I2 on	O2	Y
[deg] Pointing Dec	-40.130002	-40.15097291025711	CCD I3 on	O3	Y
[deg] Pointing Roll	278.987879	279.1592846630911	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O1	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O5	Y
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	O4	Y
[s] Observation start time (MET)	345717358.184000	345716170.08903	CCD S5 on	N	N
Observation start date	2008-12-15T08:34:53	2008-12-15T08:16:10	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	345742358.184000	345743239.82787	On-chip summing requested	N	N
Observation end date	2008-12-15T15:31:33	2008-12-15T15:47:19	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

## 2.3 Aspect



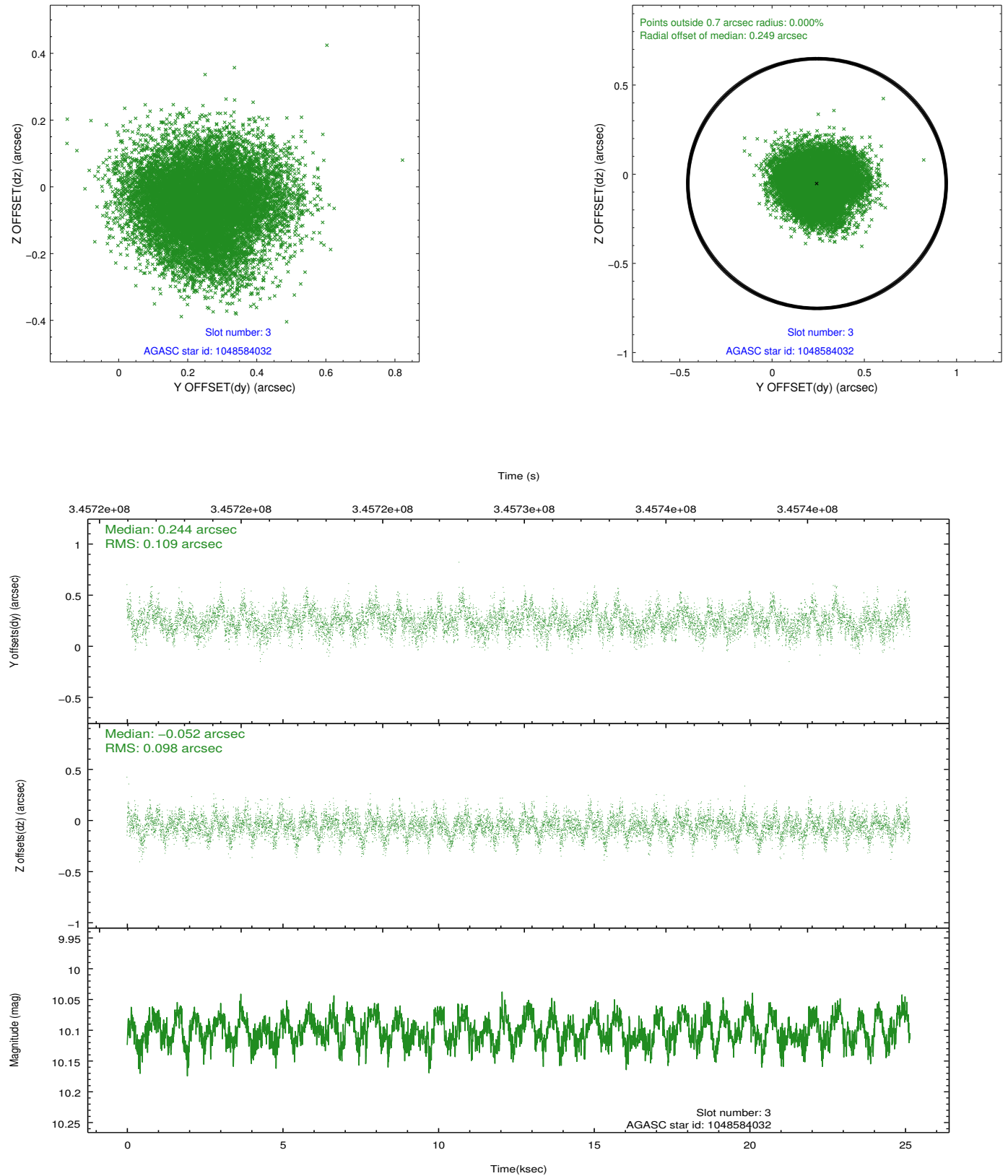


### Slot Statistics

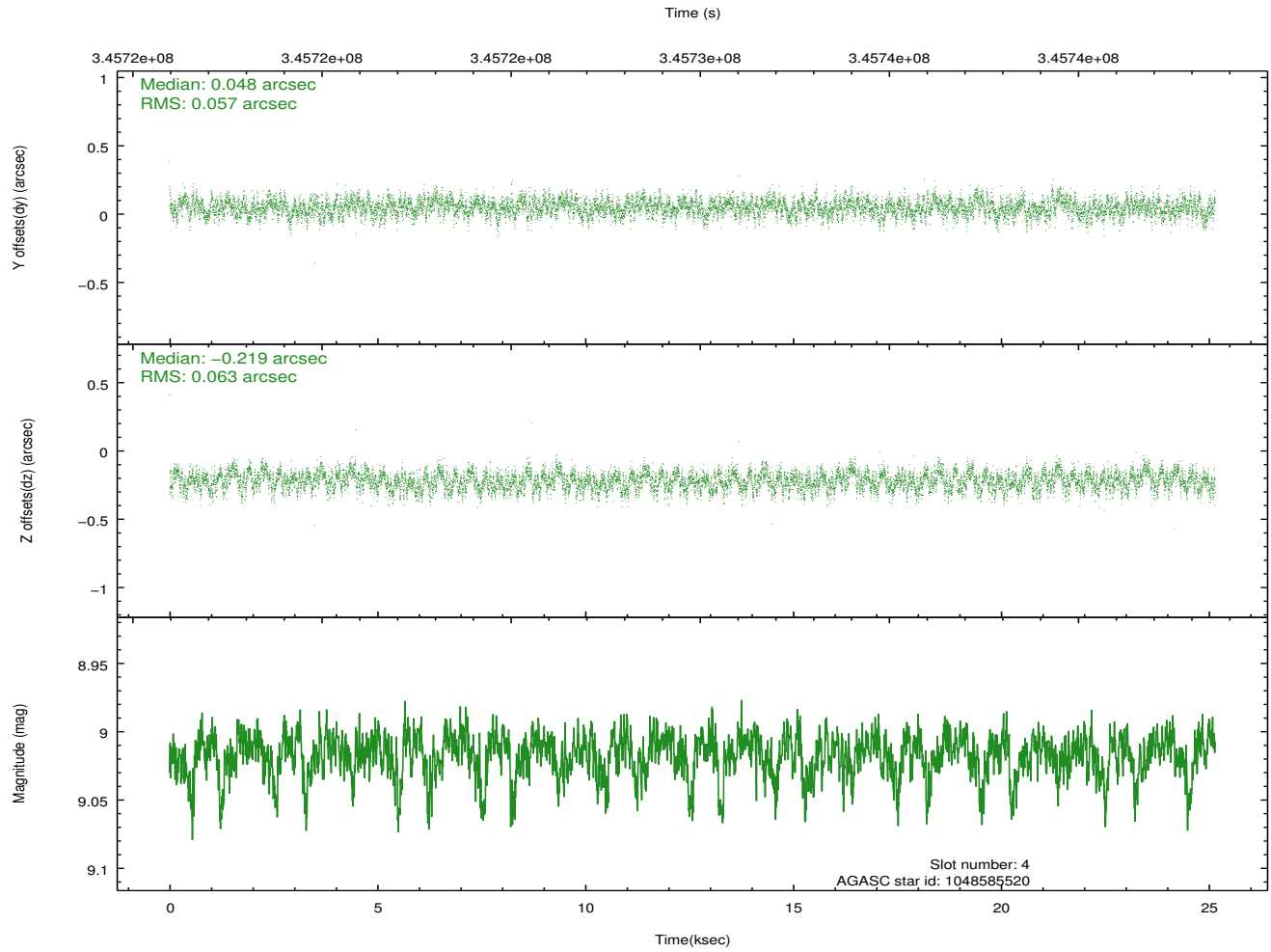
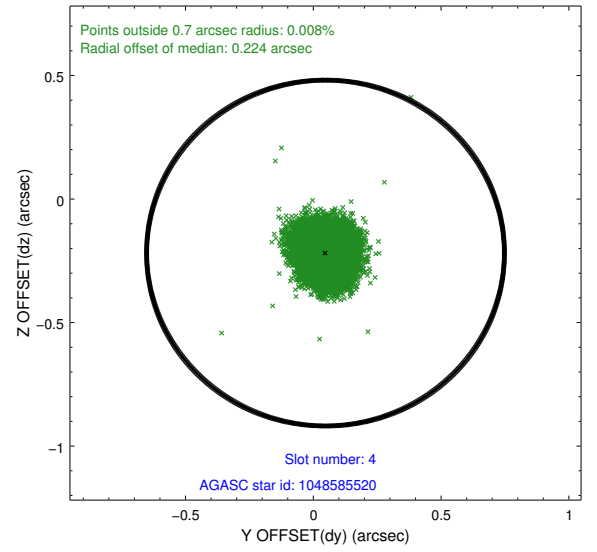
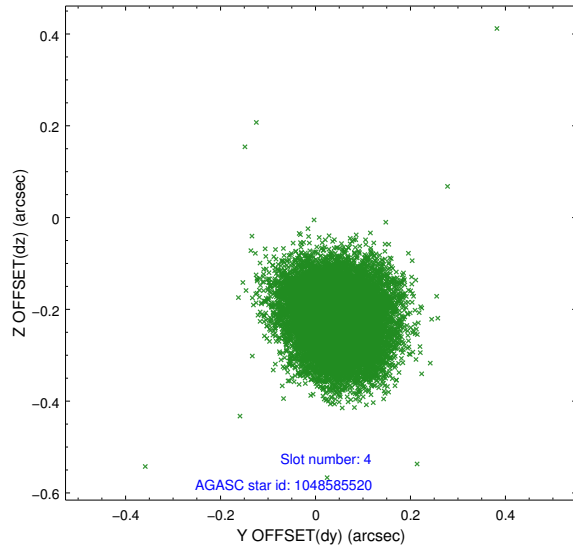
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.88	6136	-0.050	-0.013	0.019	0.035	0.000000	0.000000	-766.81	-1737.51
1	FID	ACIS-S-4	6.96	6135	0.190	0.028	0.019	0.028	0.000000	0.000000	2146.66	170.89
2	FID	ACIS-S-5	6.99	6136	-0.169	-0.006	0.011	0.028	0.000000	0.000000	-1819.61	164.66
3	GUIDE	1048584032	10.10	12250	0.244	-0.052	0.158	0.252	339.841284	-40.602435	1637.80	-535.97
4	GUIDE	1048585520	9.02	12264	0.048	-0.219	0.091	0.142	339.283653	-40.510732	1079.95	-1993.28
5	GUIDE	1049104000	9.00	12259	-0.107	0.069	0.085	0.139	340.439468	-39.461649	-2155.84	1742.52
6	GUIDE	1049495080	9.82	12237	-0.023	0.030	0.129	0.219	340.266613	-40.174599	300.26	858.32
7	GUIDE	1049103832	10.16	12249	-0.168	0.172	0.169	0.273	340.657881	-39.463186	-2052.40	2340.60

## 2.4 Star Slots

### 2.4.1 Slot 3

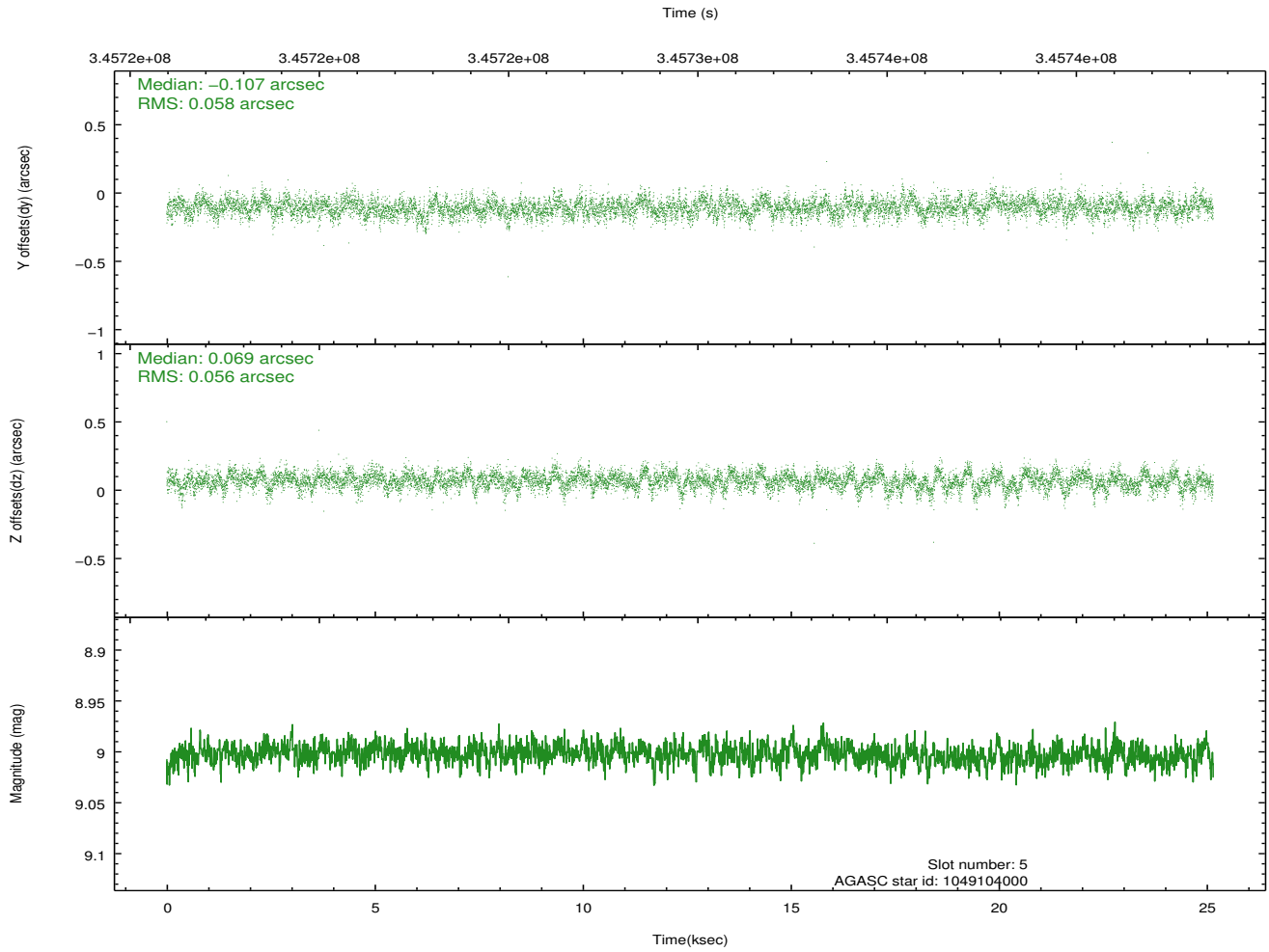
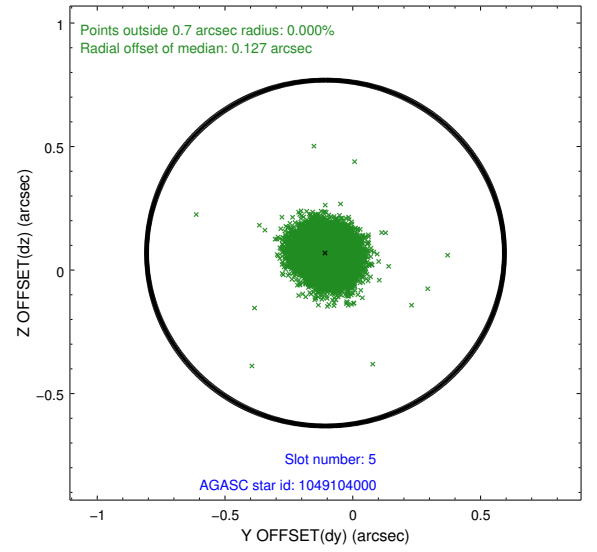
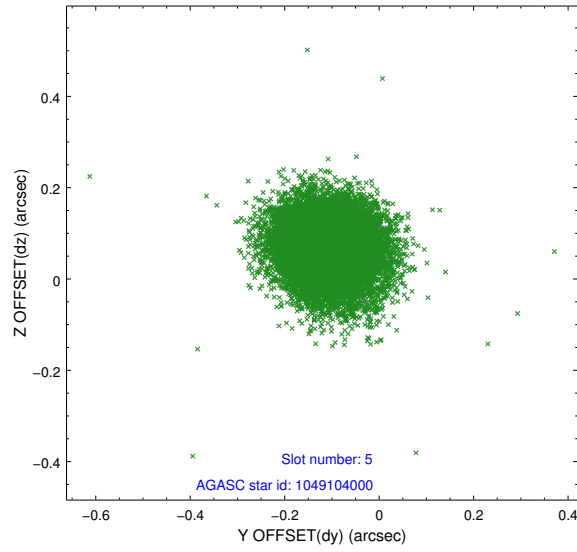


## 2.4.2 Slot 4

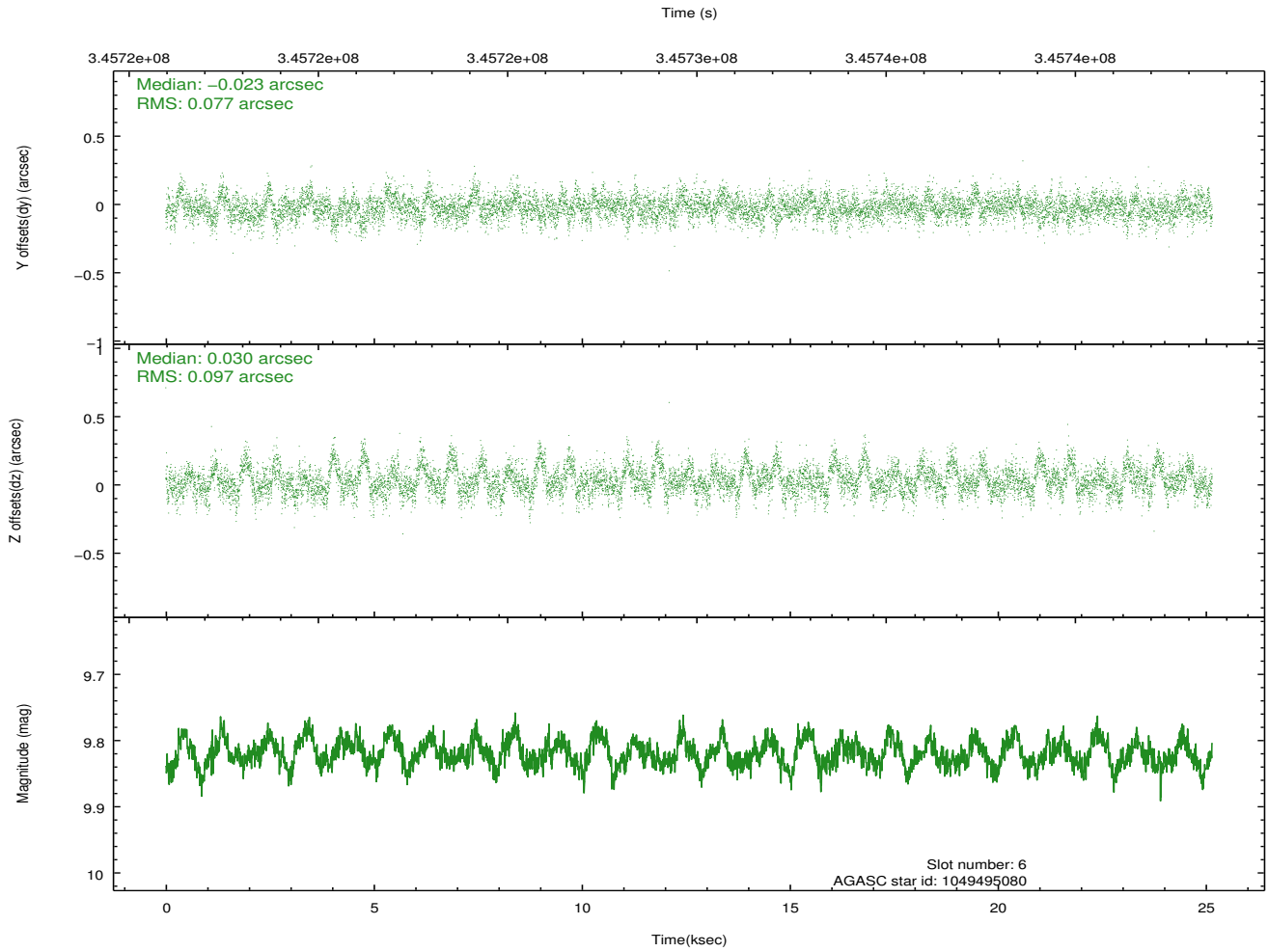
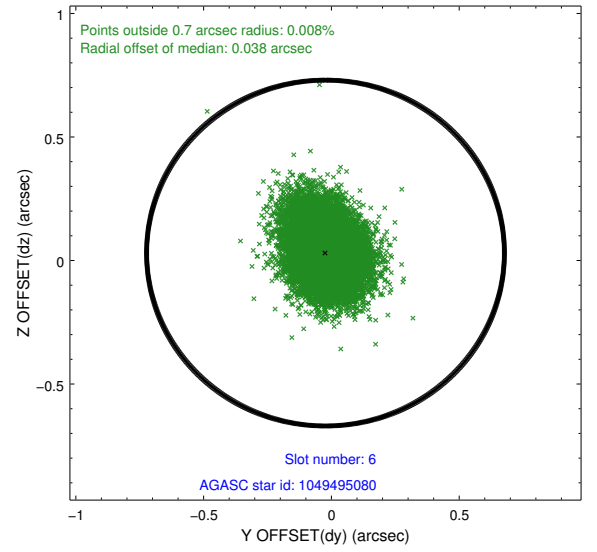
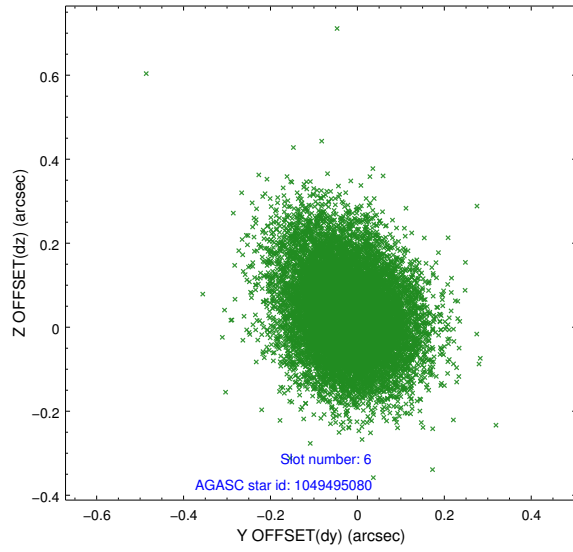




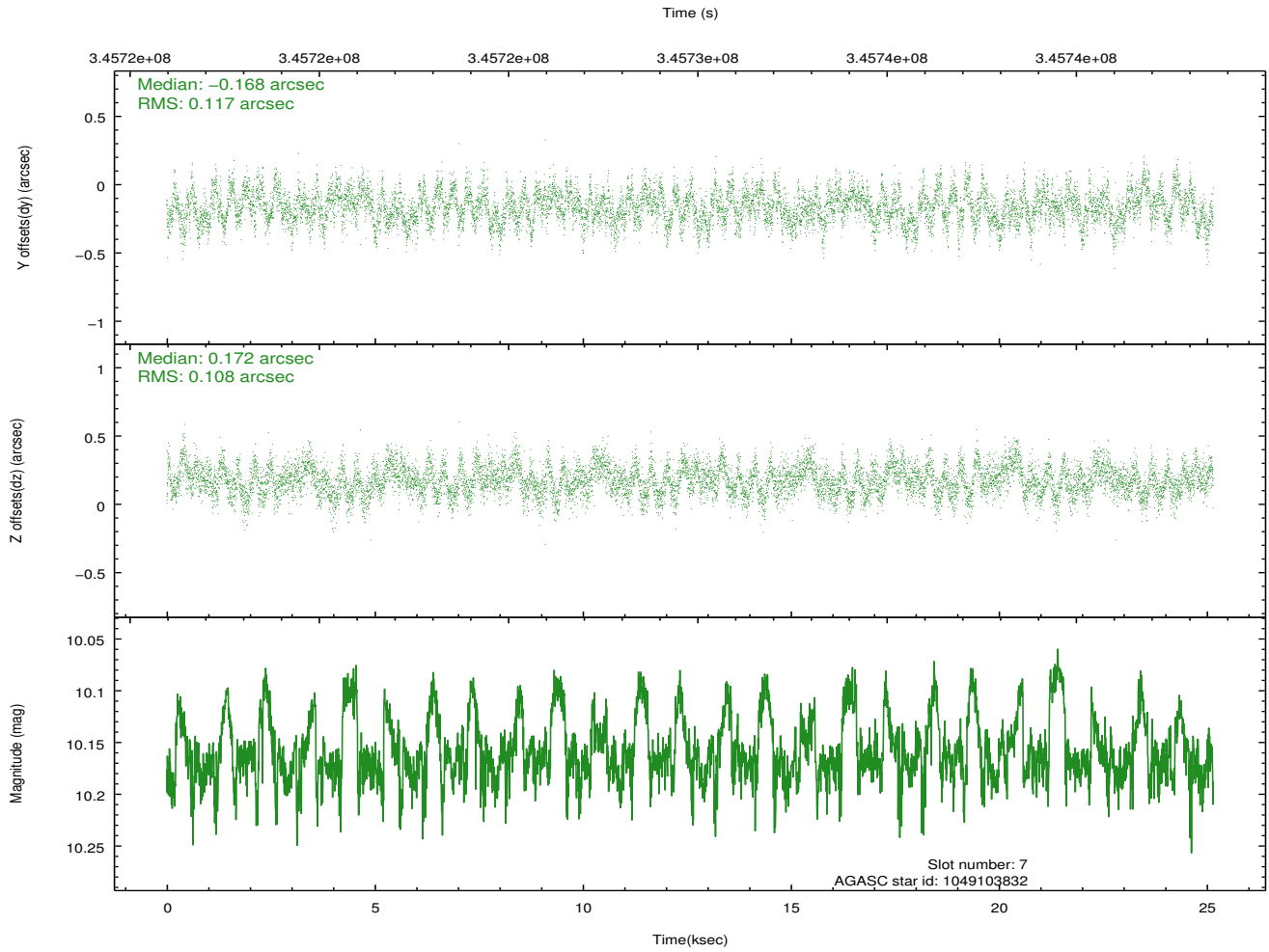
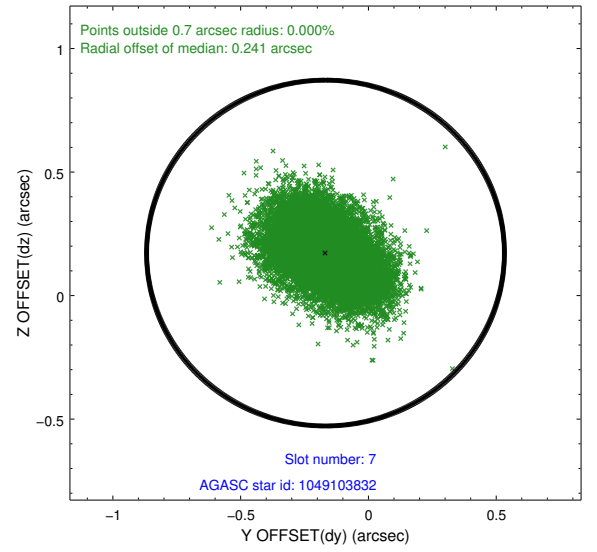
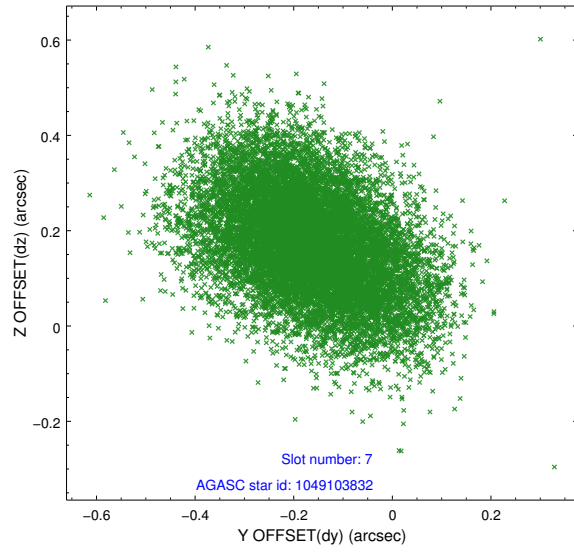
### 2.4.3 Slot 5



## 2.4.4 Slot 6

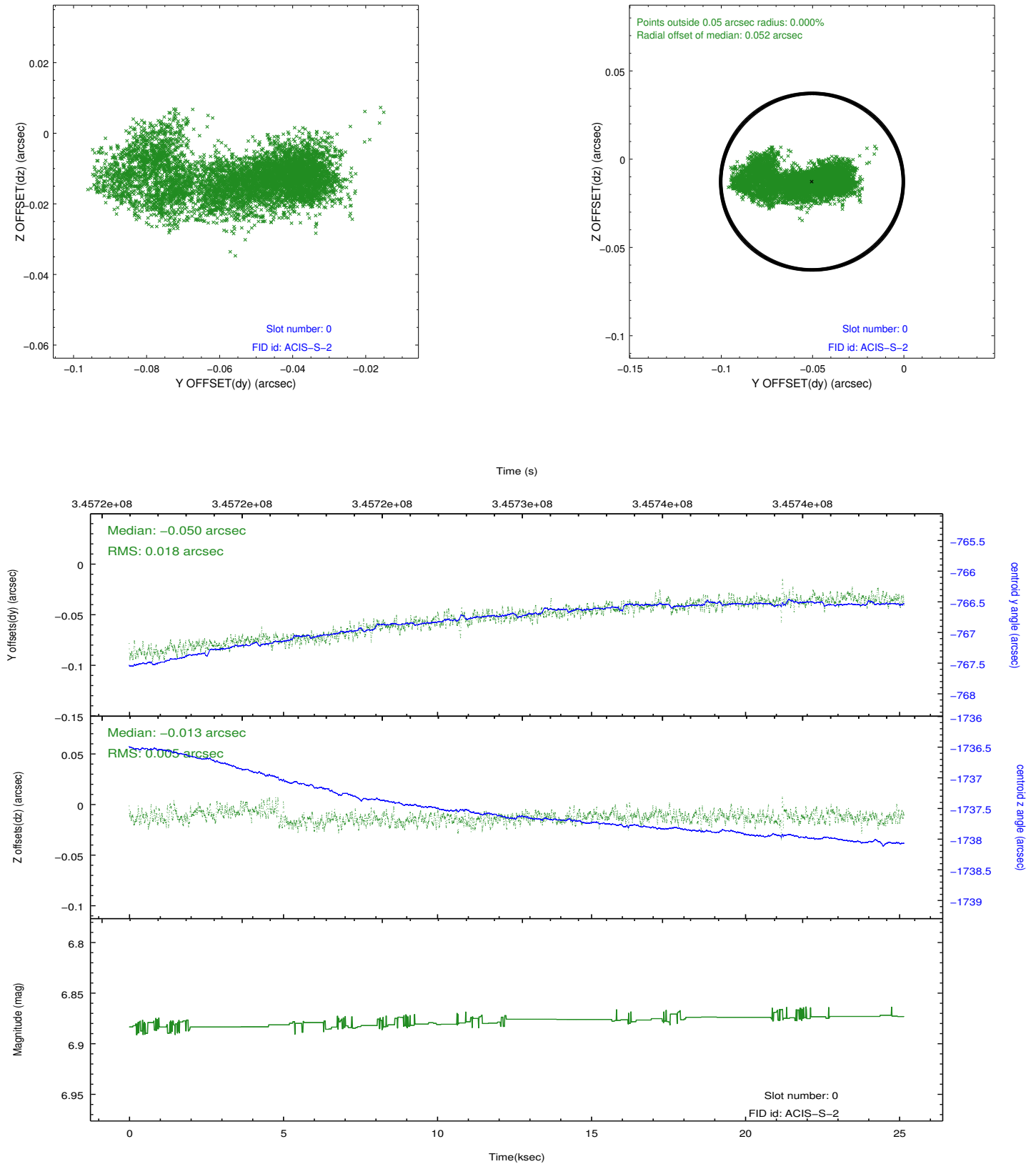


## 2.4.5 Slot 7

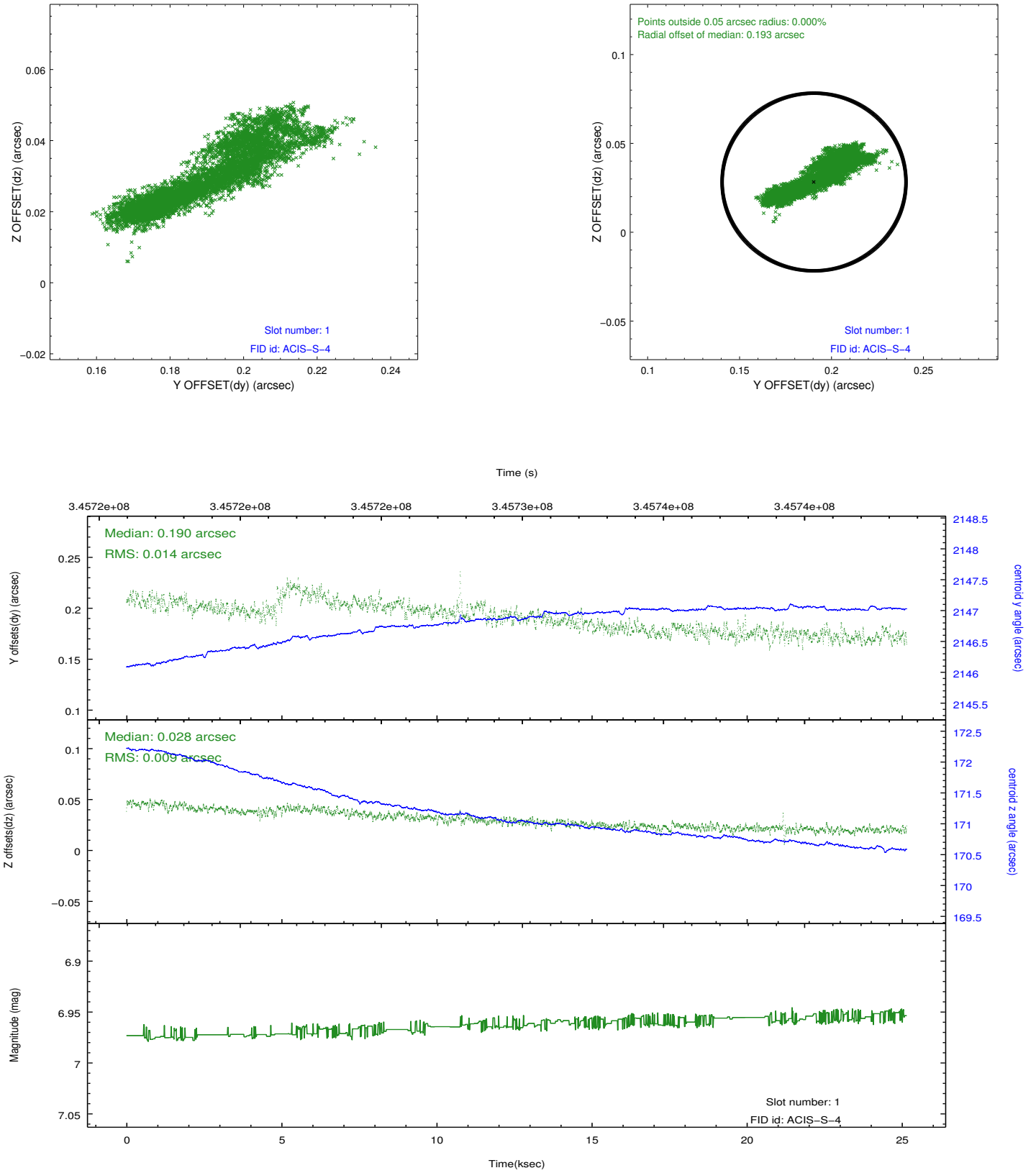


## 2.5 FID Slots

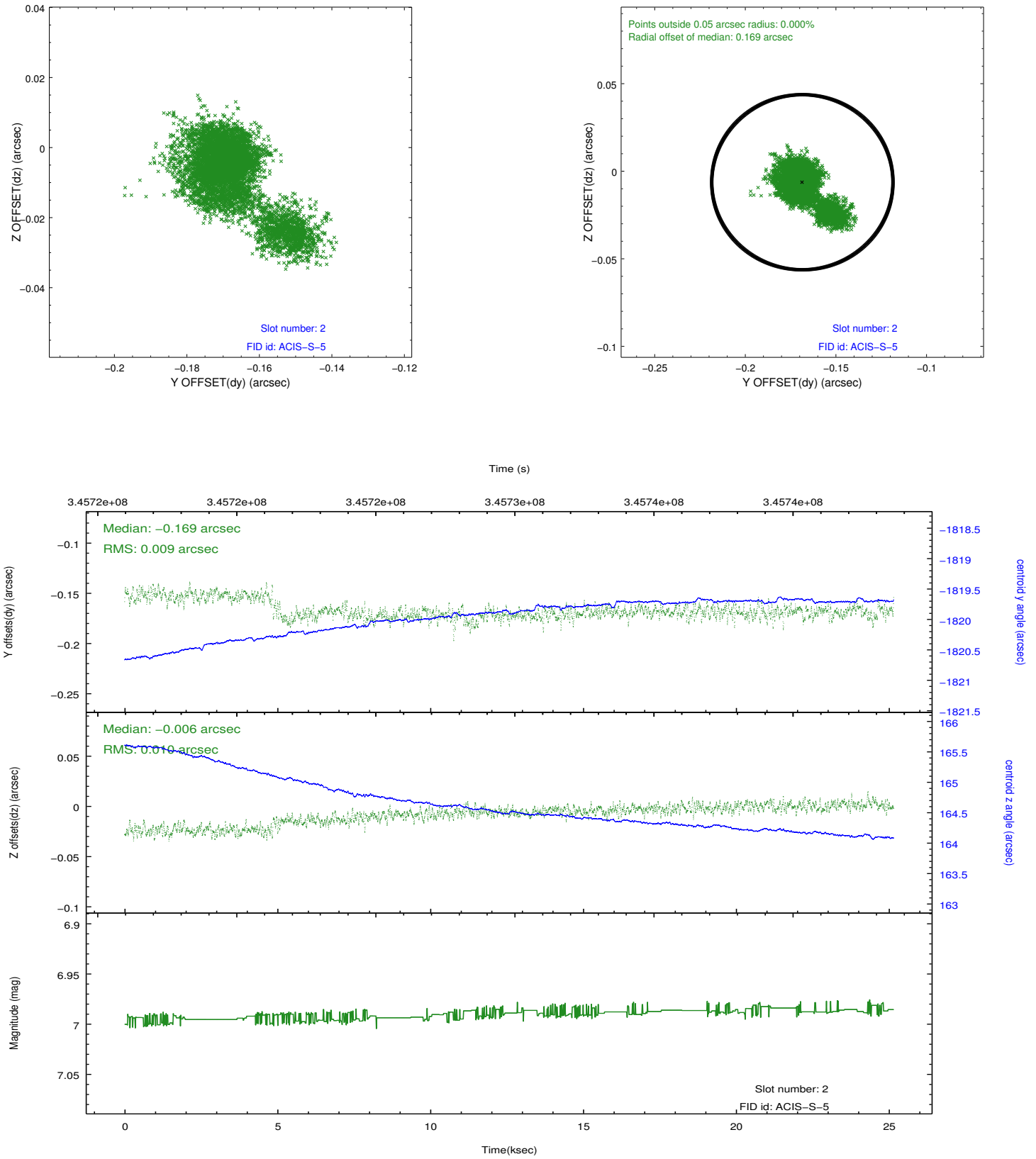
### 2.5.1 Slot 0



## 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)	2012.06.01
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	25.1487999

### A.2 Comments