

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 8541 - L2 Version 3  
Chandra X-Ray Center

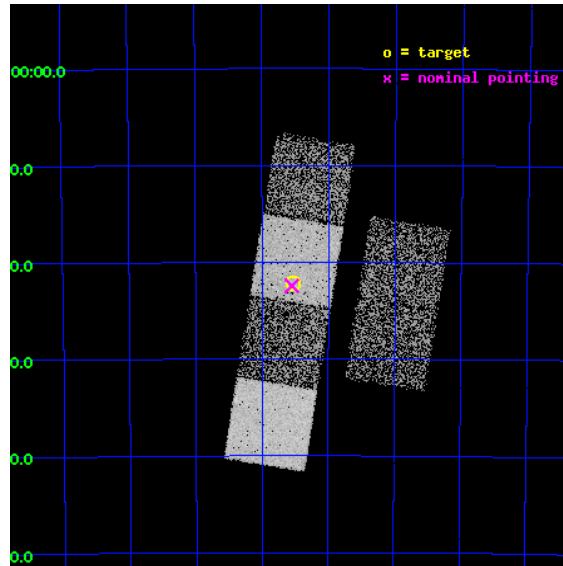
L2 Processing Date : Apr 21 2012

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# 1 Front

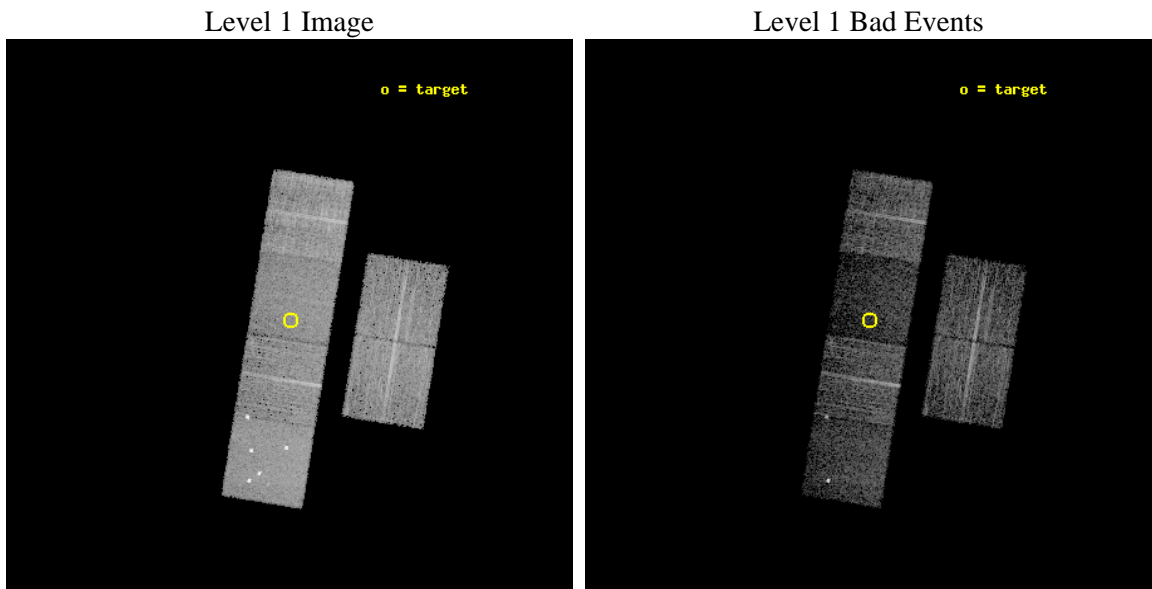
seq_num	500699	Sequence number
obs_id	8541	Observation id
title	A Search for Jet Breaks in Long GRB afterglows	Proposal title
observer	Professor Gordon Garmire	Principal investigator
object	GRB 060729	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	95.380417	Observer's specified target RA [deg]
dec_targ	-62.370389	Observer's specified target Dec [deg]
ra_nom	95.38742374049	Nominal RA [deg]
dec_nom	-62.374100863116	Nominal Dec [deg]
roll_nom	279.16278932786	Nominal Roll [deg]
revision	3	Processing version of data
ontime	4760.9249201417	Sum of GTIs [s]
livetime	4700.639222118	Livetime [s]
ontime2	4760.965960145	Sum of GTIs [s]
ontime3	4760.8018001318	Sum of GTIs [s]
ontime5	4760.8838801384	Sum of GTIs [s]
ontime6	4760.8428401351	Sum of GTIs [s]
ontime7	4760.9249201417	Sum of GTIs [s]
ontime8	4757.5197498202	Sum of GTIs [s]
l2events	47903	Number of level 2 events



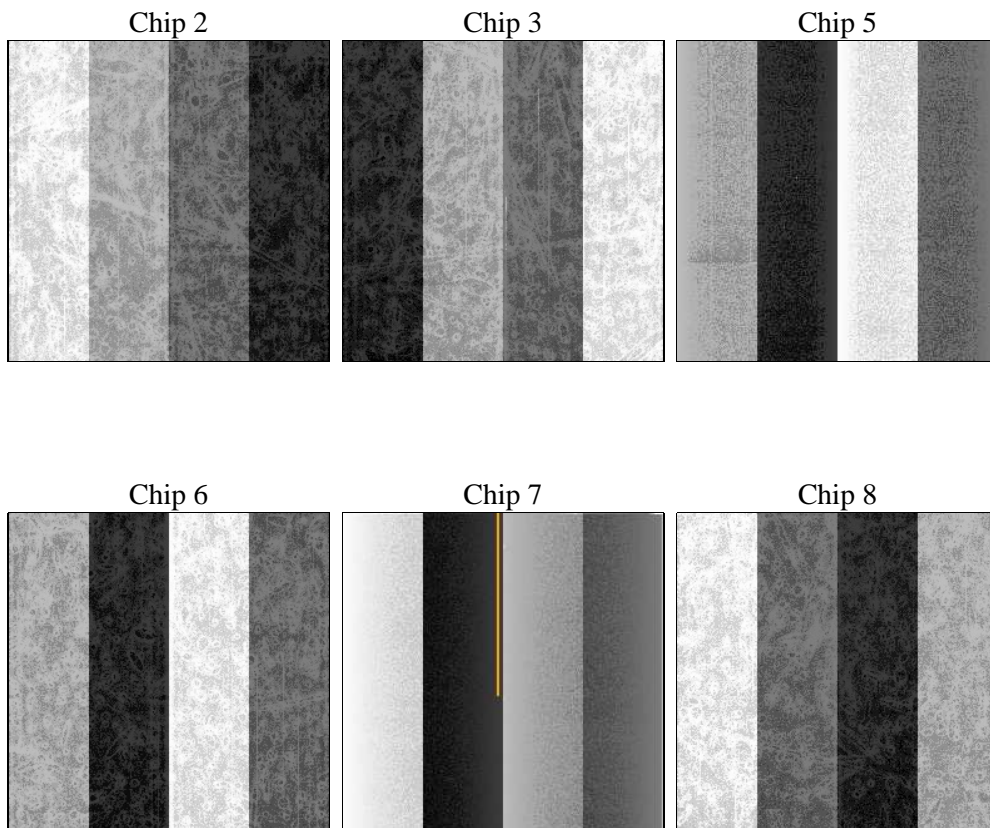
## 2 OBI

### 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	8.4.4	Processing system revision	ontime	4760.9249201417	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime2	4760.965960145	Sum of GTIs [s]
date	2012-04-21T13:54:49	Date and time of file creation	ontime3	4760.8018001318	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	4760.8838801384	Sum of GTIs [s]
			ontime6	4760.8428401351	Sum of GTIs [s]
			ontime7	4760.9249201417	Sum of GTIs [s]
			ontime8	4757.5197498202	Sum of GTIs [s]
			l1events	230898	Number of level 1 events

### 2.1.4 Events

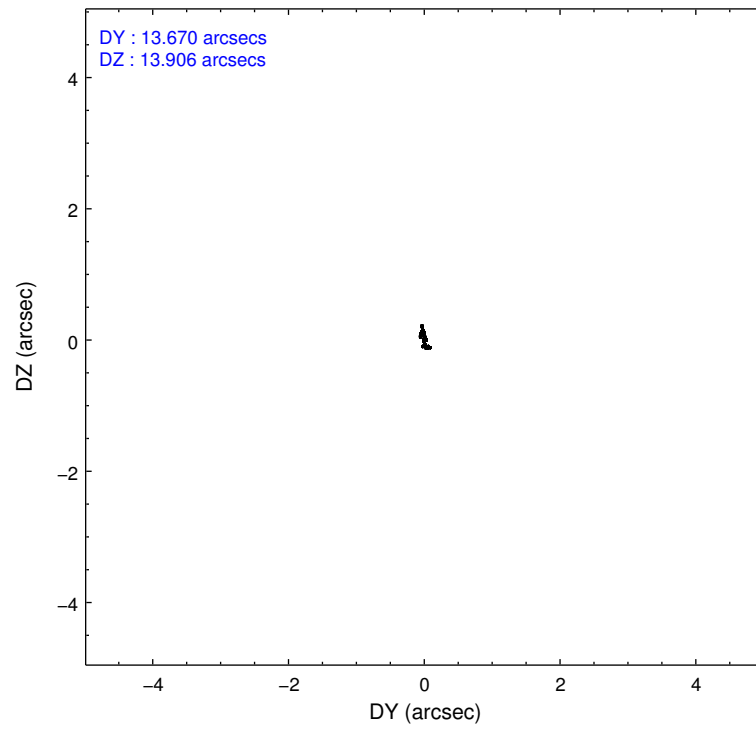
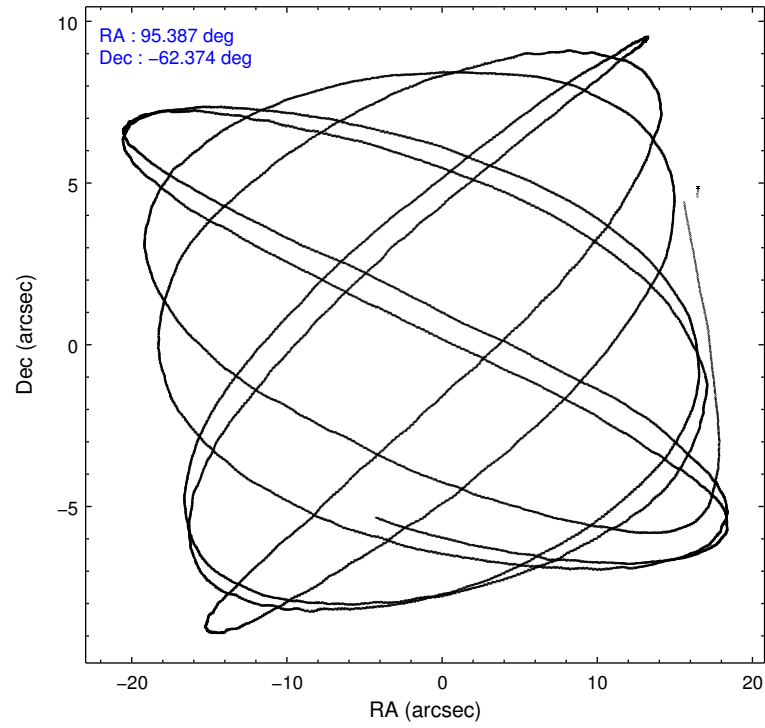
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	36737	32693	49142	34753	32229	45344	grade 0 events	1142	1114	6116	1330	1670	2723
rejected events	33573	29643	21320	31202	16168	35345		3%	3%	12%	3%	5%	6%
rejected %	91%	90%	43%	89%	50%	77%	grade 1 events	22	23	107	19	54	42
								0%	0%	0%	0%	0%	0%
							grade 2 events	774	629	7122	796	3464	2302
								2%	1%	14%	2%	10%	5%
							grade 3 events	305	362	1098	397	1539	1110
								0%	1%	2%	1%	4%	2%
							grade 4 events	354	381	958	349	1487	1060
								0%	1%	1%	1%	4%	2%
							grade 5 events	987	1149	3810	1201	3404	1684
								2%	3%	7%	3%	10%	3%
							grade 6 events	591	565	12550	679	7909	2808
								1%	1%	25%	1%	24%	6%
							grade 7 events	32562	28470	17381	29982	12702	33615
								88%	87%	35%	86%	39%	74%

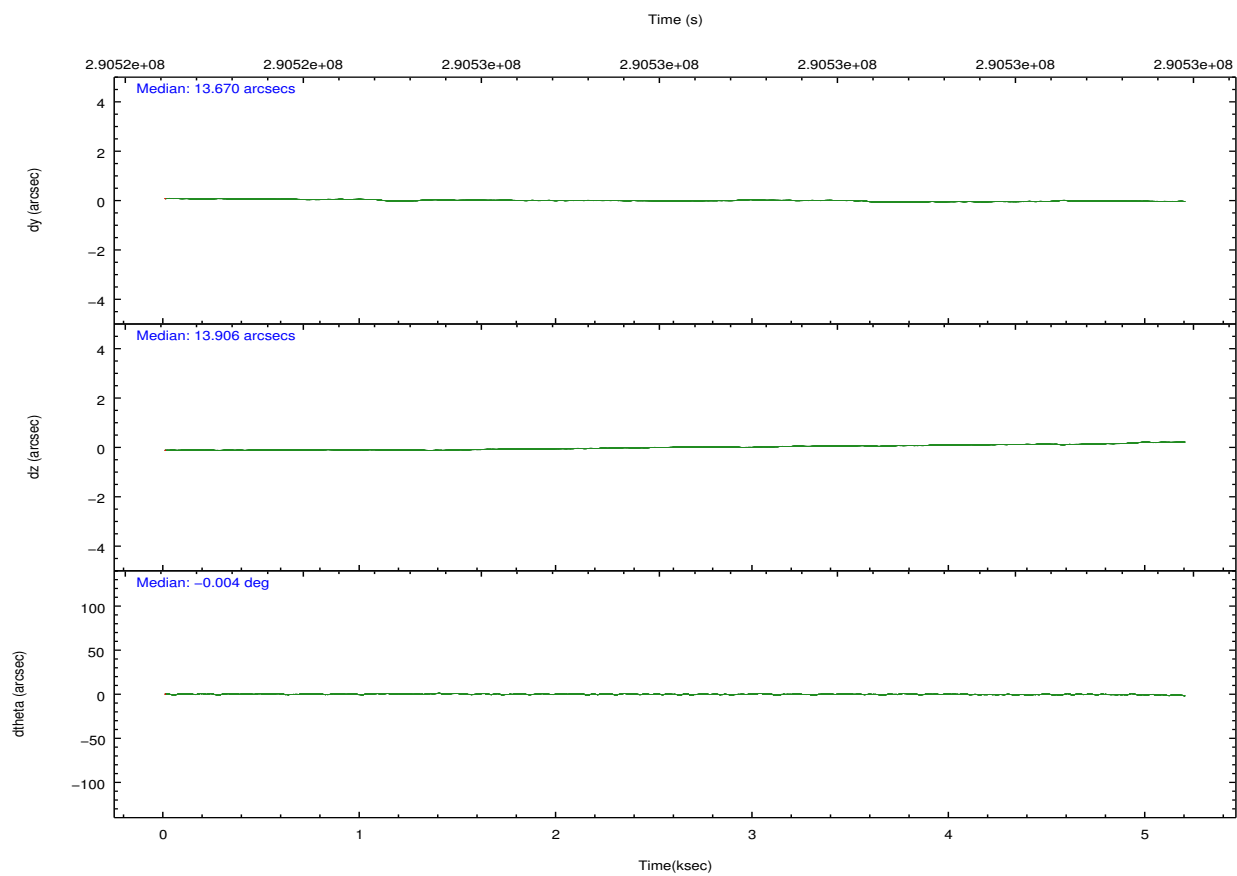
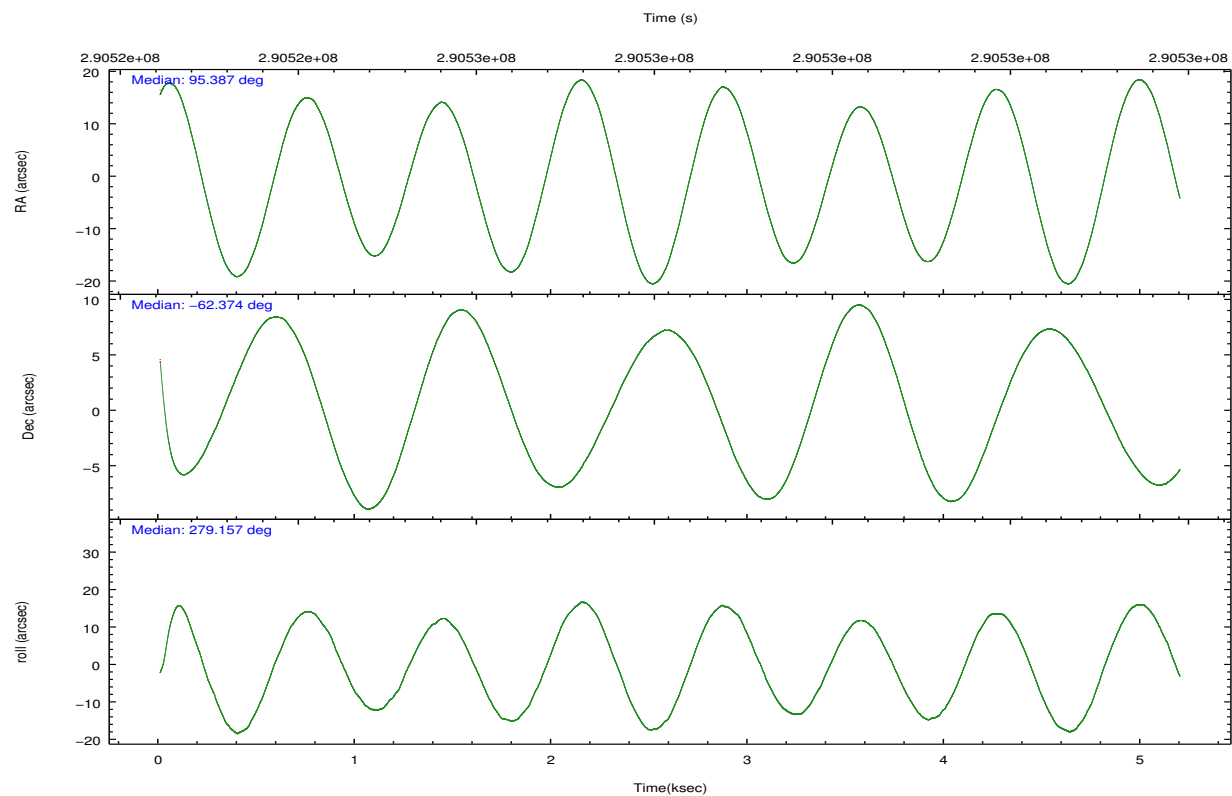


## 2.2 Compared Parameters

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	95.349417	95.38742374049049	Subarray requested	NONE	NONE
[deg] Pointing Dec	-62.353091	-62.37410086311594	Alternating exposures requested	N	N
[deg] Pointing Roll	278.972541	279.1627893278642	[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)	290524685.184000	290523776.25242			
Observation start date	2007-03-17T13:17:00	2007-03-17T13:02:56			
[s] Observation end time (MET)	290529685.184000	290530468.47774			
Observation end date	2007-03-17T14:40:20	2007-03-17T14:54:28			
Read mode	TIMED	TIMED			

## 2.3 Aspect



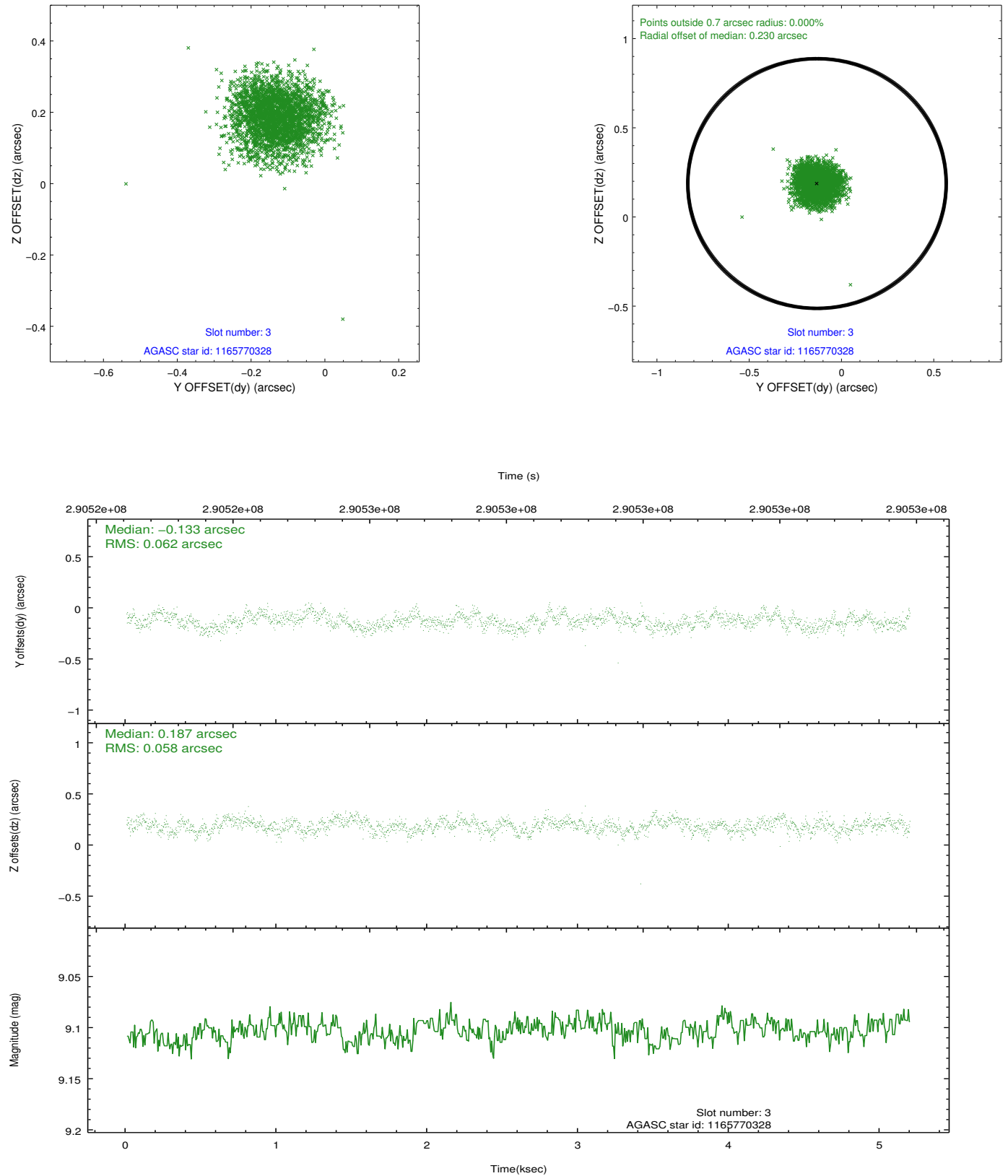


### Slot Statistics

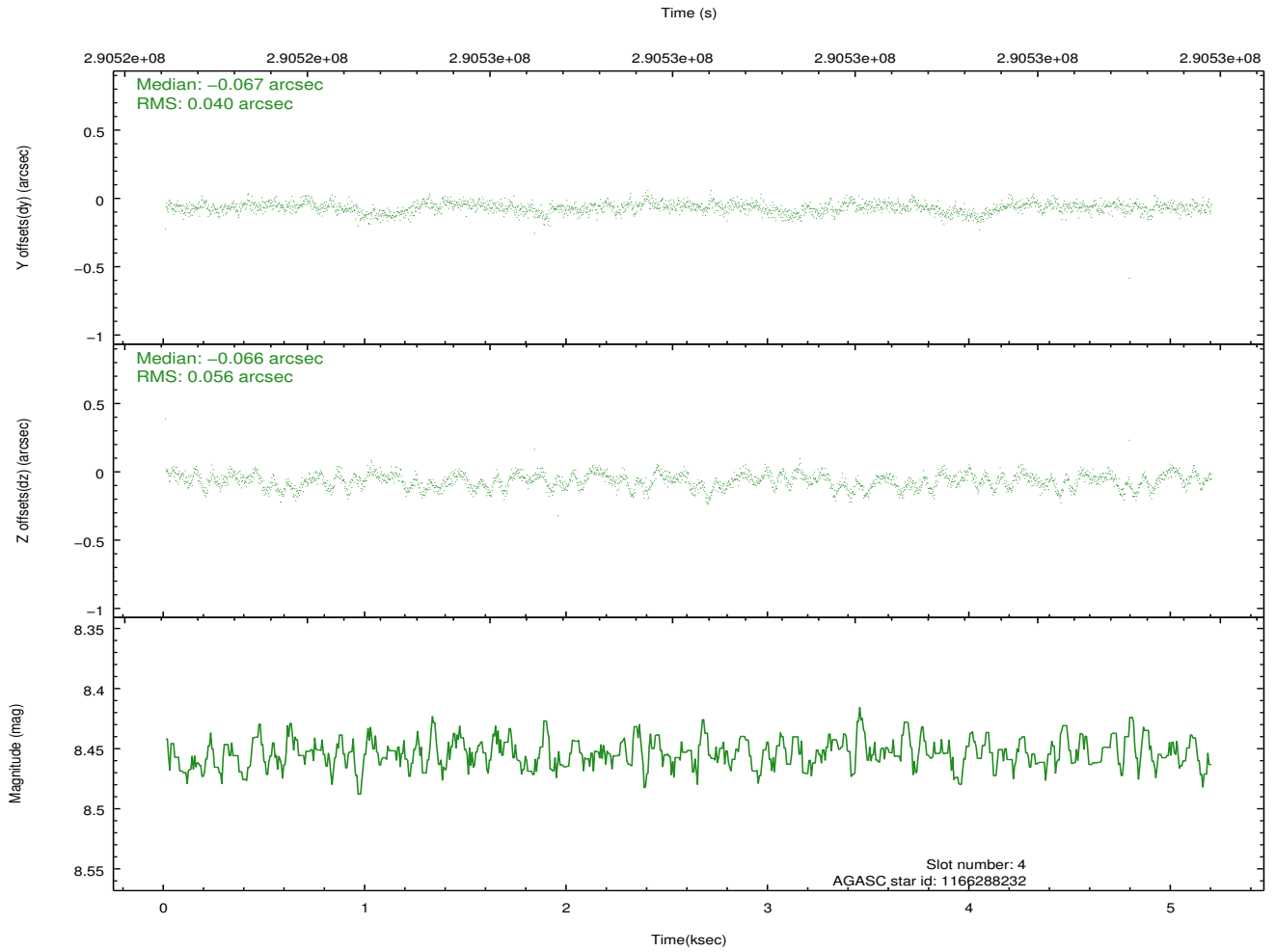
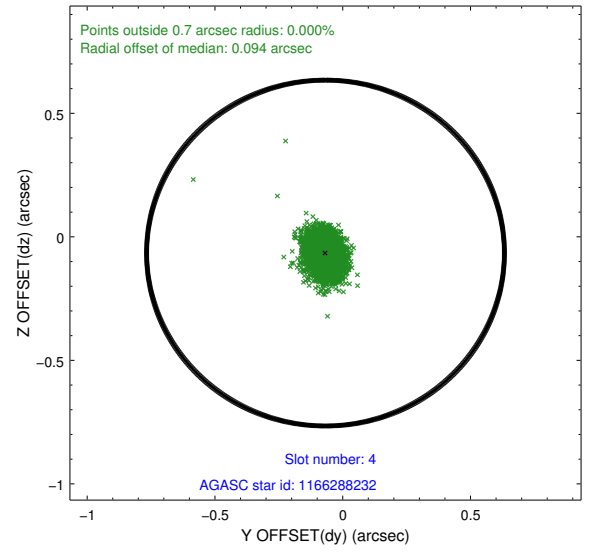
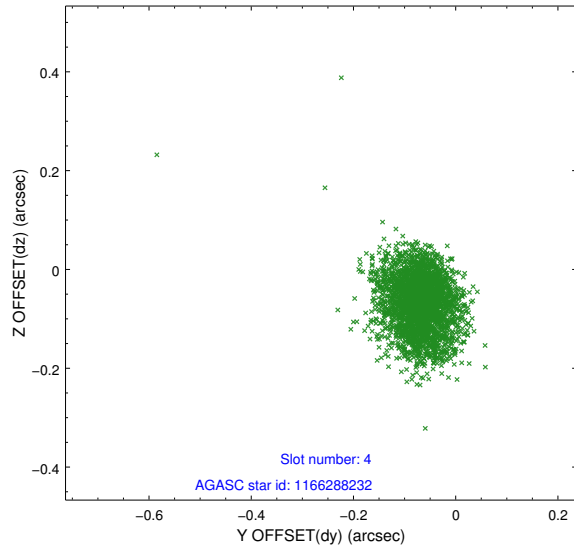
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	1267	-0.054	-0.072	0.007	0.011	0.000000	0.000000	-766.66	-1735.33
1	FID	ACIS-S-4	7.20	1267	0.210	0.046	0.005	0.010	0.000000	0.000000	2146.35	172.06
2	FID	ACIS-S-5	7.23	1267	-0.186	0.036	0.007	0.010	0.000000	0.000000	-1818.14	167.05
3	GUIDE	1165770328	9.10	2533	-0.133	0.187	0.091	0.143	94.916512	-61.741093	-2288.97	-385.56
4	GUIDE	1166288232	8.45	2534	-0.067	-0.066	0.072	0.115	96.353495	-62.422658	519.58	1611.76
5	GUIDE	1166289624	7.98	2533	0.177	0.014	0.076	0.127	95.229966	-62.354097	-26.95	-196.91
6	GUIDE	1166290504	9.17	2533	0.043	-0.023	0.093	0.144	94.421217	-62.304320	-404.66	-1508.39
7	GUIDE	1165766936	9.06	2530	-0.022	-0.108	0.090	0.143	96.498055	-61.624413	-2267.97	2346.78

## 2.4 Star Slots

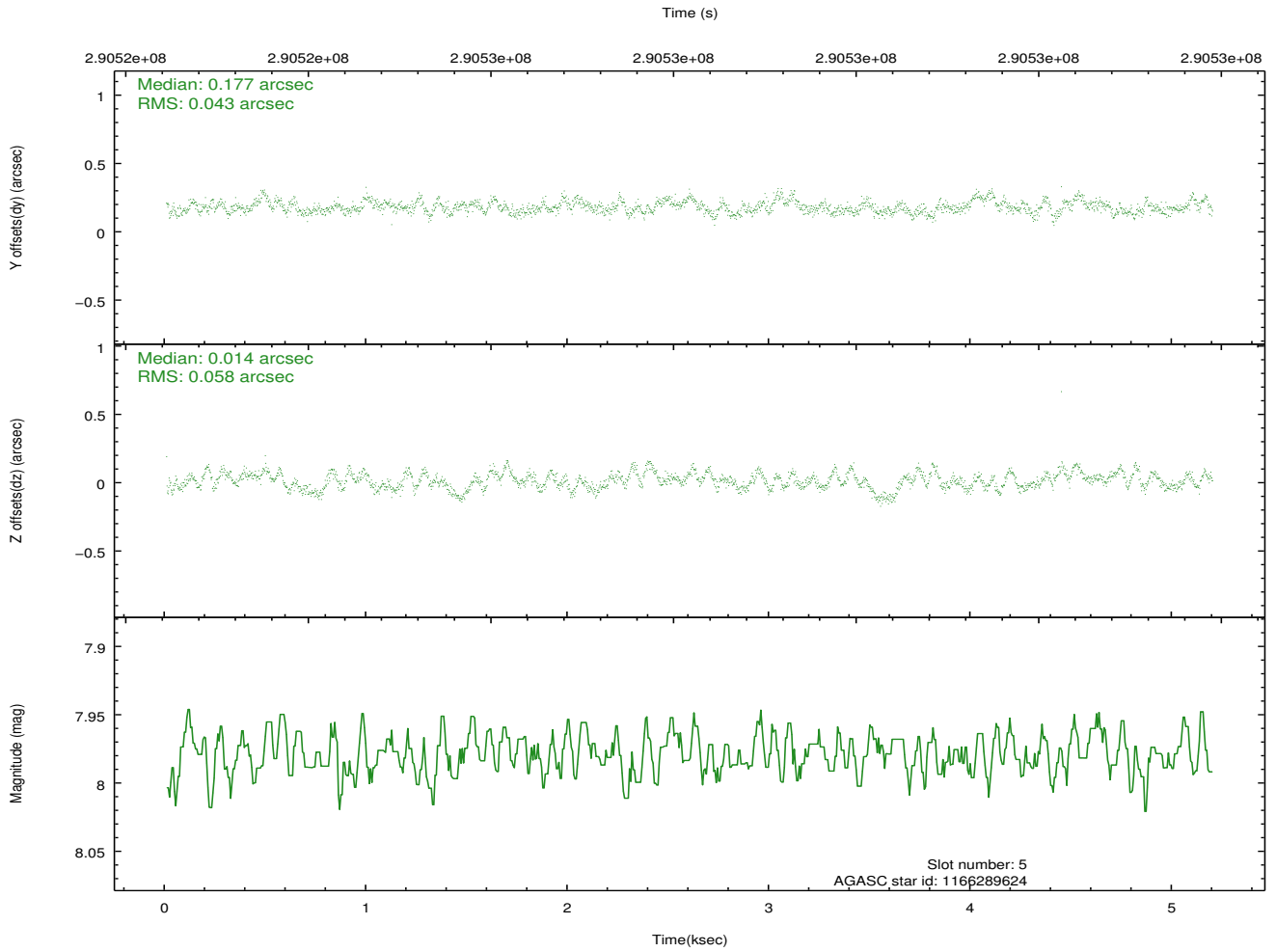
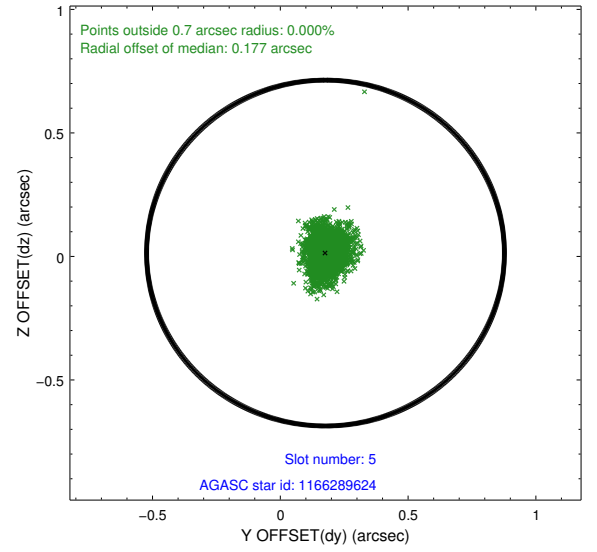
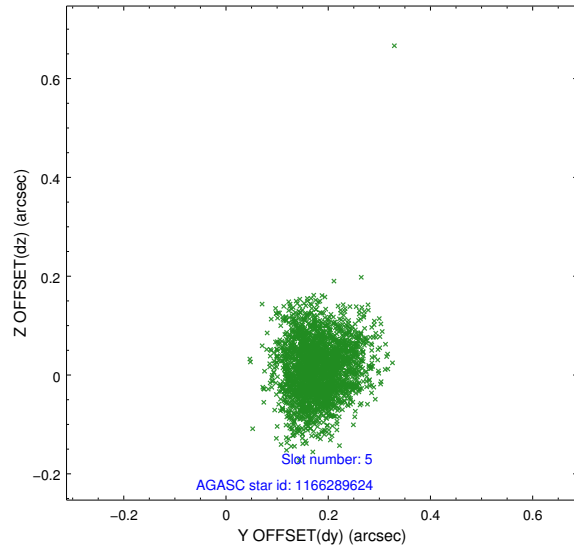
### 2.4.1 Slot 3



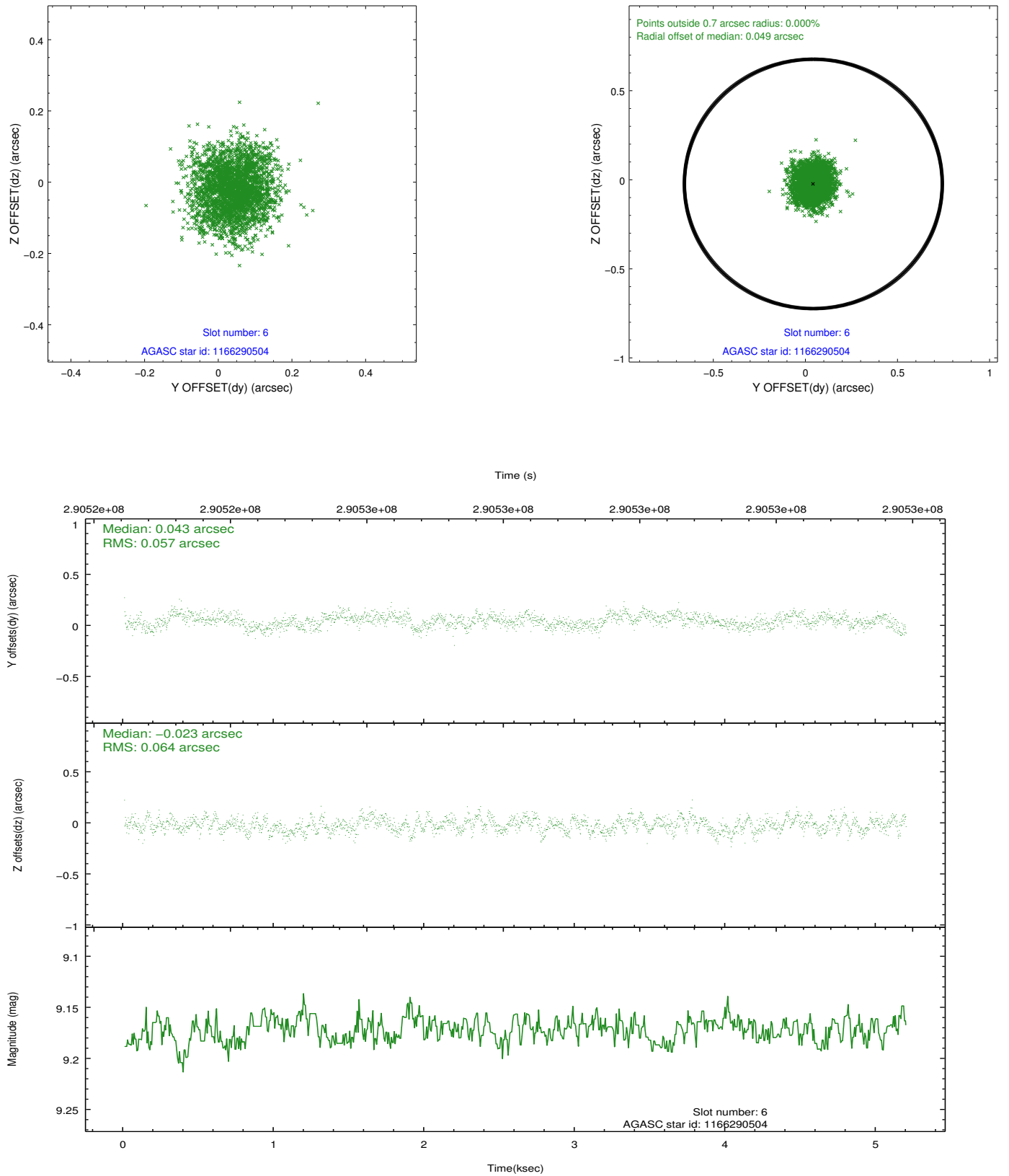
## 2.4.2 Slot 4



### 2.4.3 Slot 5

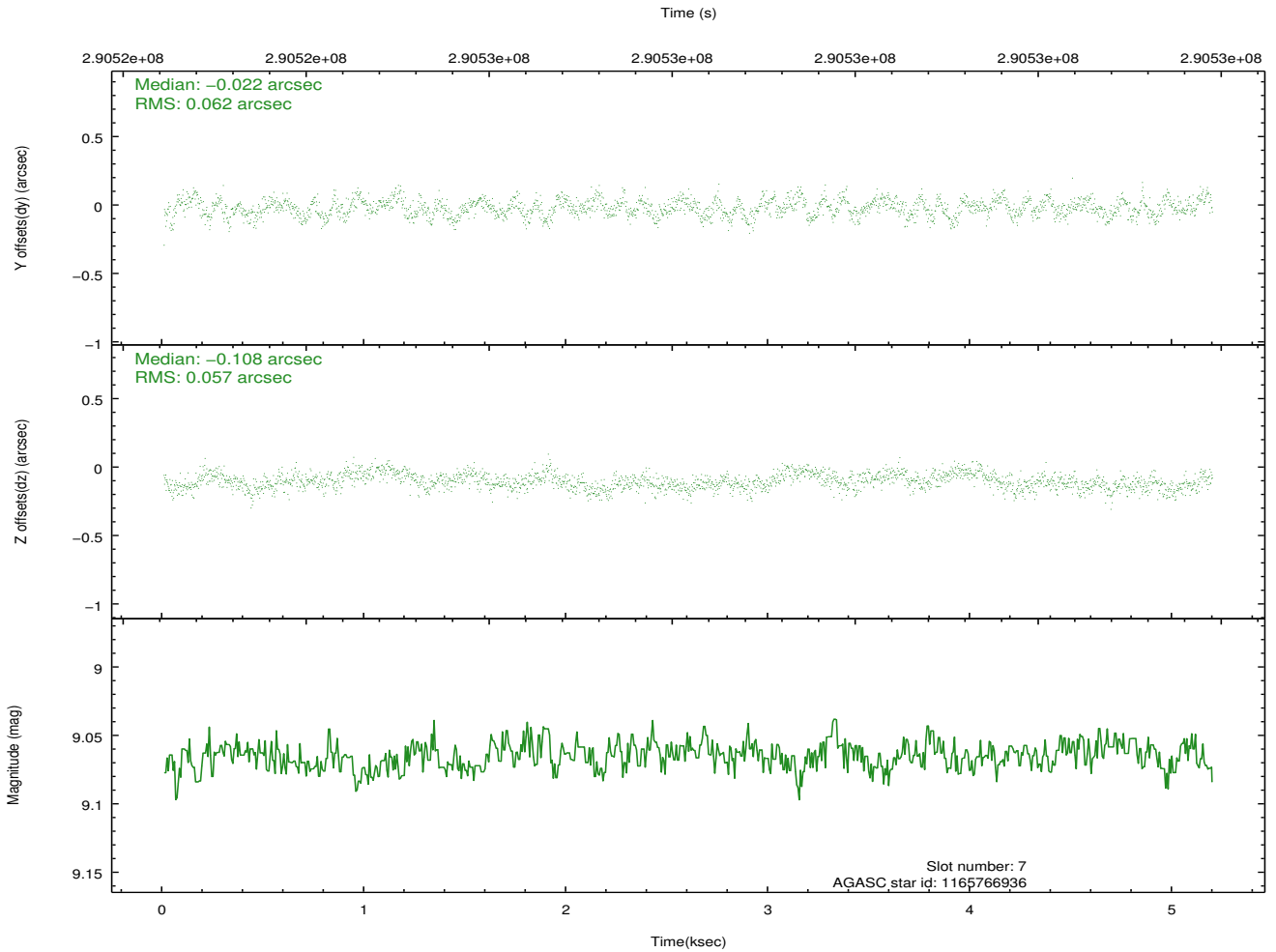
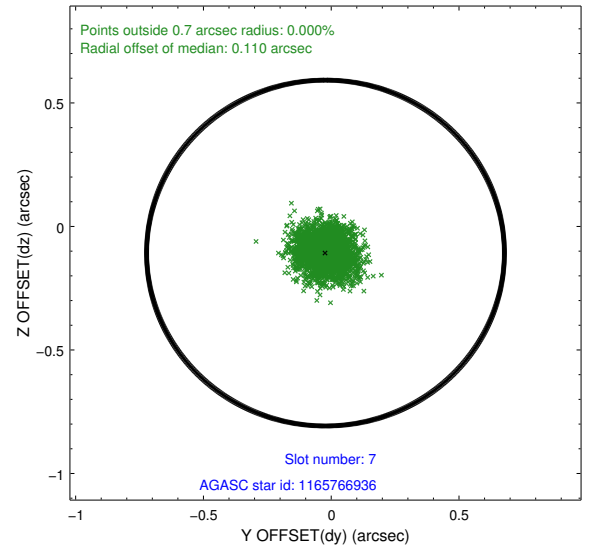
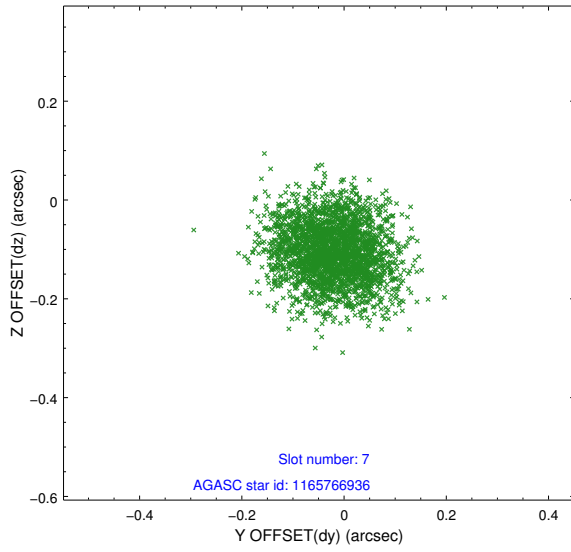


## 2.4.4 Slot 6



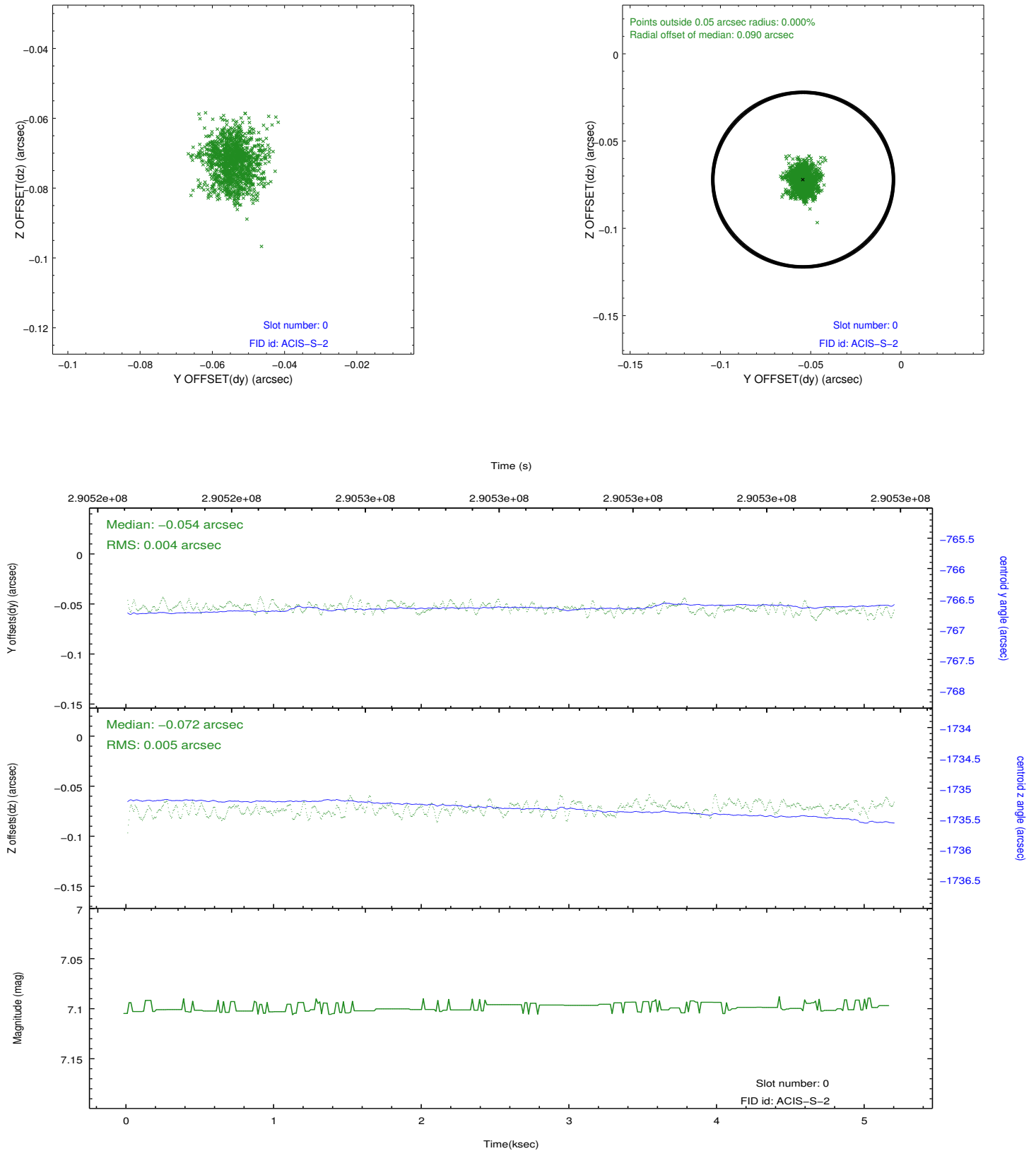


## 2.4.5 Slot 7

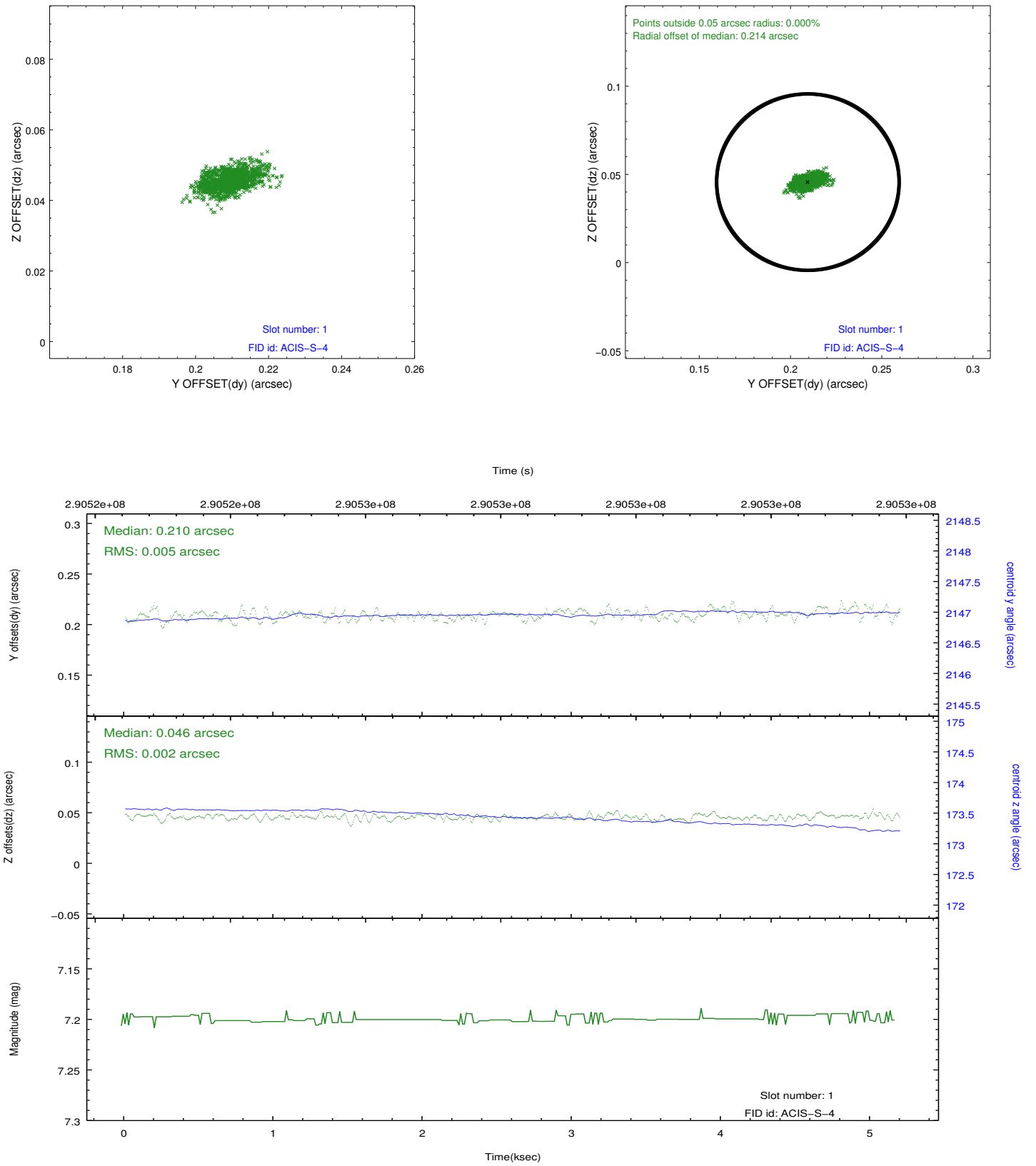


## 2.5 FID Slots

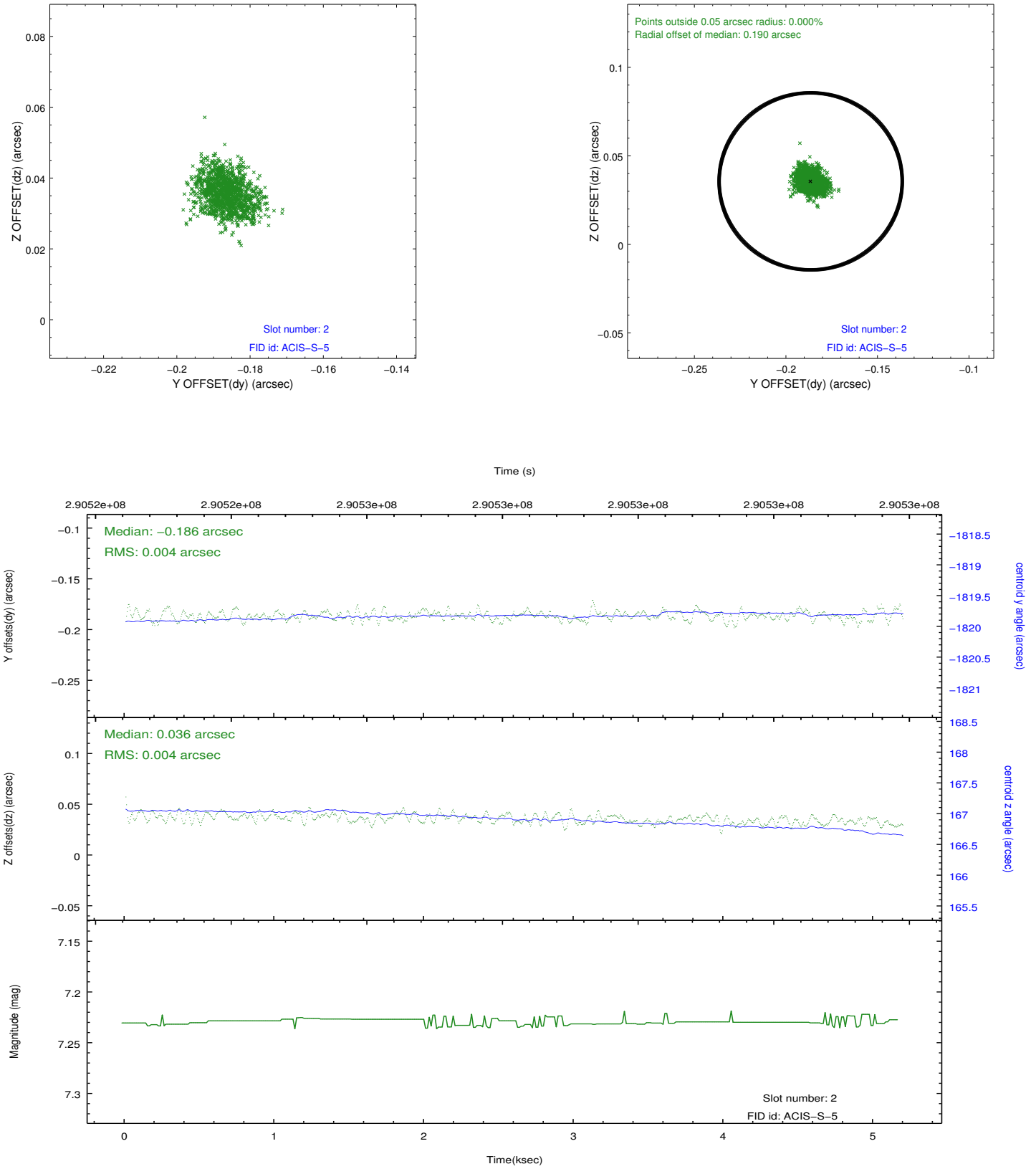
### 2.5.1 Slot 0



## 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)	2012.04.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.76159998

### A.2 Comments