

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 14044 - L2 Version 1  
Chandra X-Ray Center

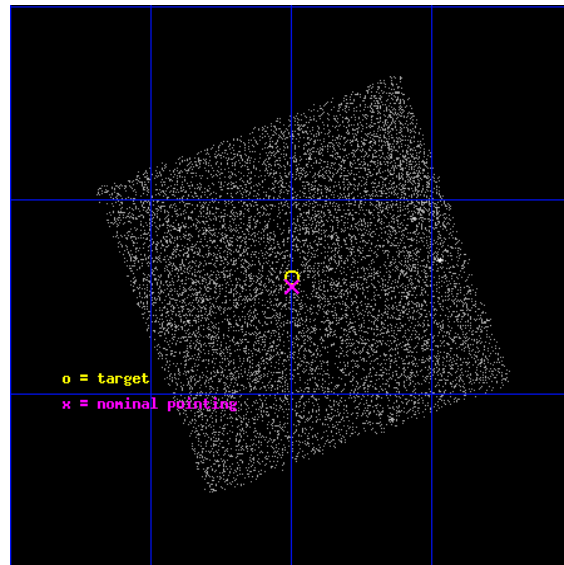
L2 Processing Date : May 28 2012

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# 1 Front

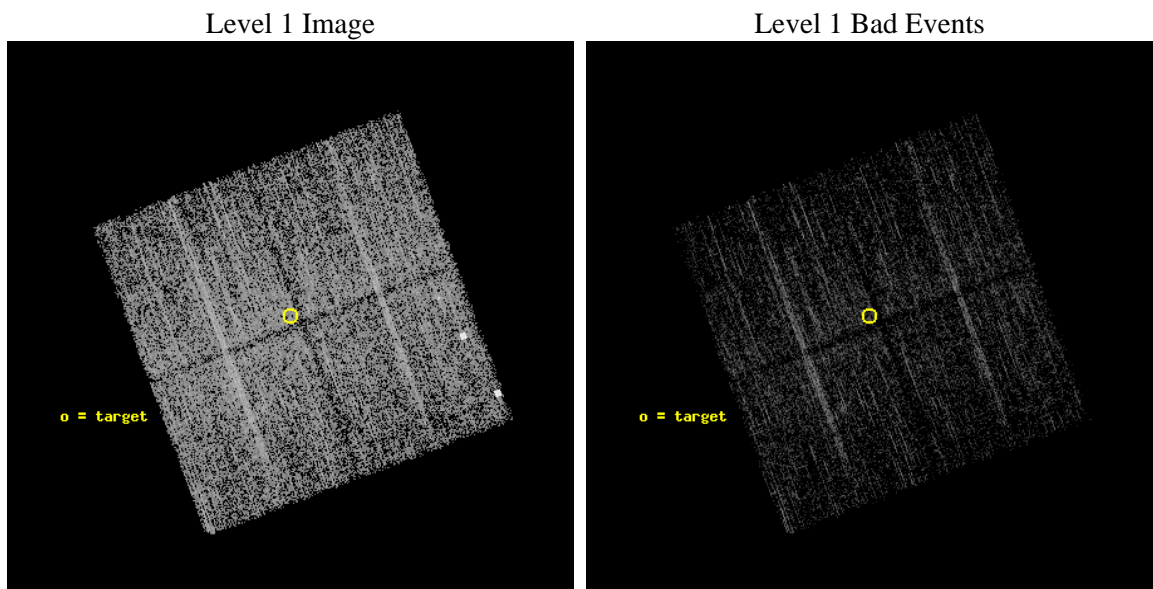
seq_num	901010	Sequence number
obs_id	14044	Observation id
title	BAT, Chandra, NuSTAR and The origin of the Cosmic X-ray Background	&#160
observer	Dr. Marco Ajello	Principal investigator
object	J1354.0-1123	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	208.5	Observer's specified target RA [deg]
dec_targ	-11.4	Observer's specified target Dec [deg]
ra_nom	208.49954884835	Nominal RA [deg]
dec_nom	-11.408064299157	Nominal Dec [deg]
roll_nom	249.42880100065	Nominal Roll [deg]
revision	1	Processing version of data
ontime	5086.3255856037	Sum of GTIs [s]
livetime	5019.8689973294	Livetime [s]
ontime0	5086.2024655938	Sum of GTIs [s]
ontime1	5086.2435055971	Sum of GTIs [s]
ontime2	5086.2845456004	Sum of GTIs [s]
ontime3	5086.3255856037	Sum of GTIs [s]
l2events	12345	Number of level 2 events



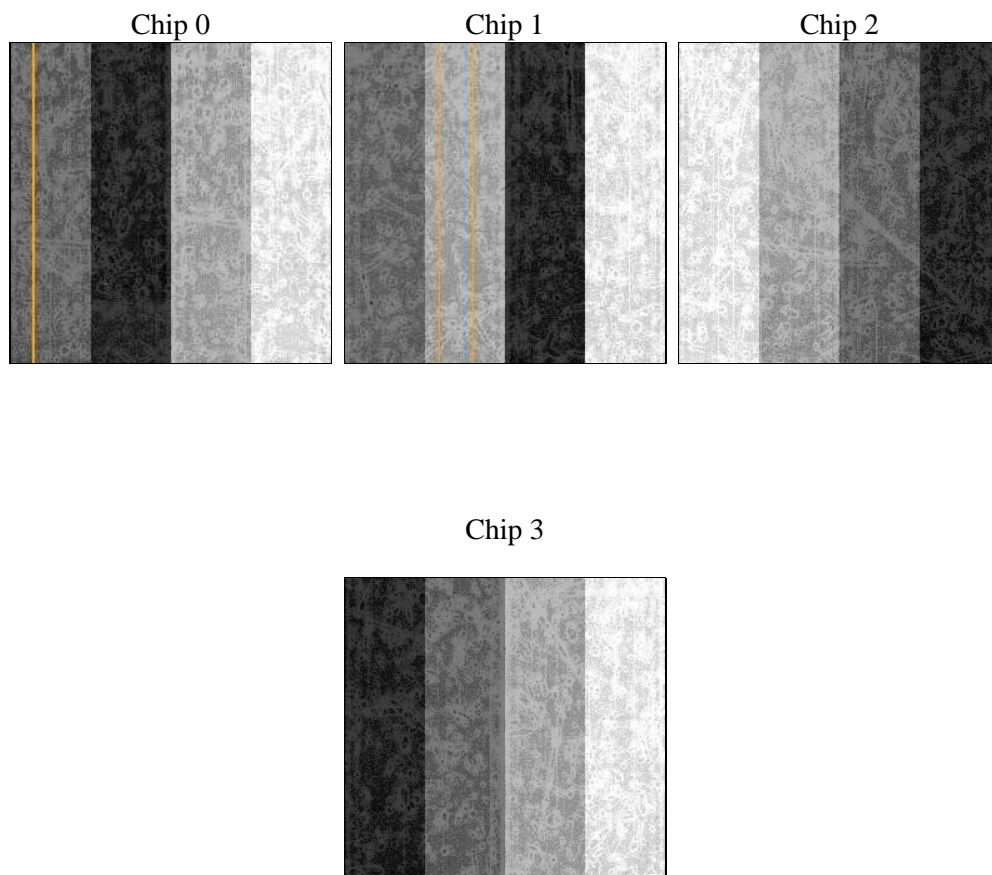
## 2 OBI

### 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	5086.3255856037	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime0	5086.2024655938	Sum of GTIs [s]
date	2012-05-28T11:48:13	Date and time of file creation	ontime1	5086.2435055971	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	5086.2845456004	Sum of GTIs [s]
			ontime3	5086.3255856037	Sum of GTIs [s]
			l1events	128062	Number of level 1 events

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	31884	30235	33036	32907
rejected events	24830	25987	29317	29480
rejected %	77%	85%	88%	89%

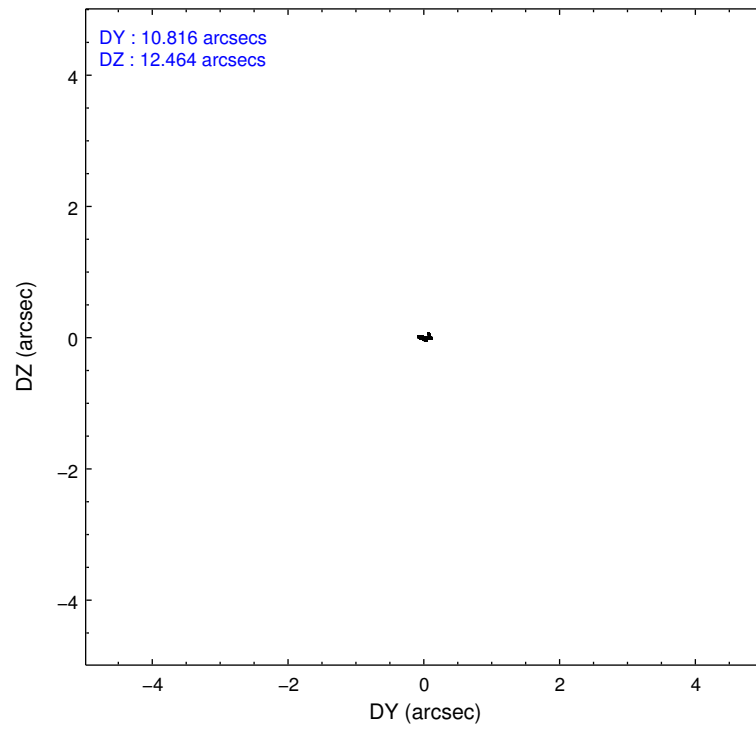
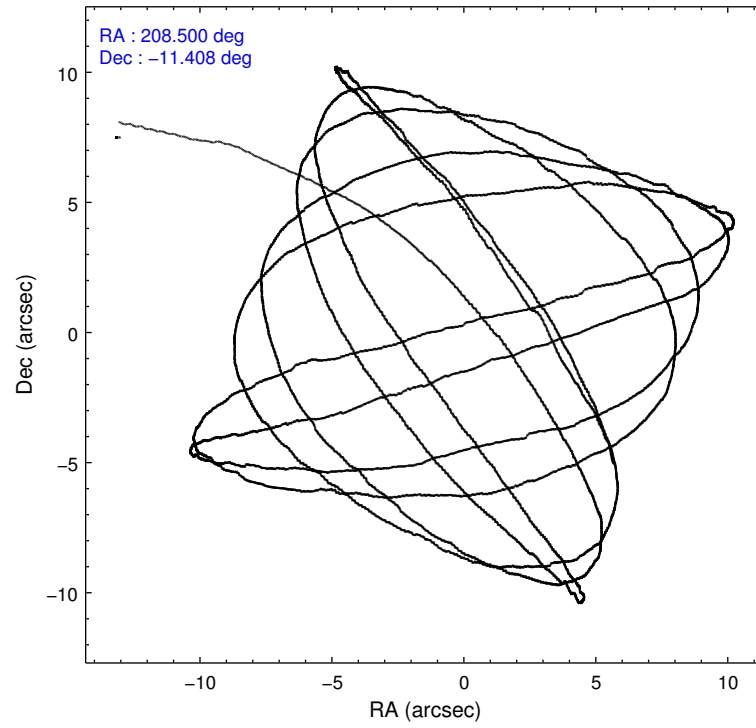
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	4592	1576	1365	1270
	14%	5%	4%	3%
grade 1 events	41	16	25	22
	0%	0%	0%	0%
grade 2 events	978	1049	973	787
	3%	3%	2%	2%
grade 3 events	377	425	357	379
	1%	1%	1%	1%
grade 4 events	360	379	370	338
	1%	1%	1%	1%
grade 5 events	1395	1437	1288	1477
	4%	4%	3%	4%
grade 6 events	754	826	658	655
	2%	2%	1%	1%
grade 7 events	23387	24527	28000	27979
	73%	81%	84%	85%

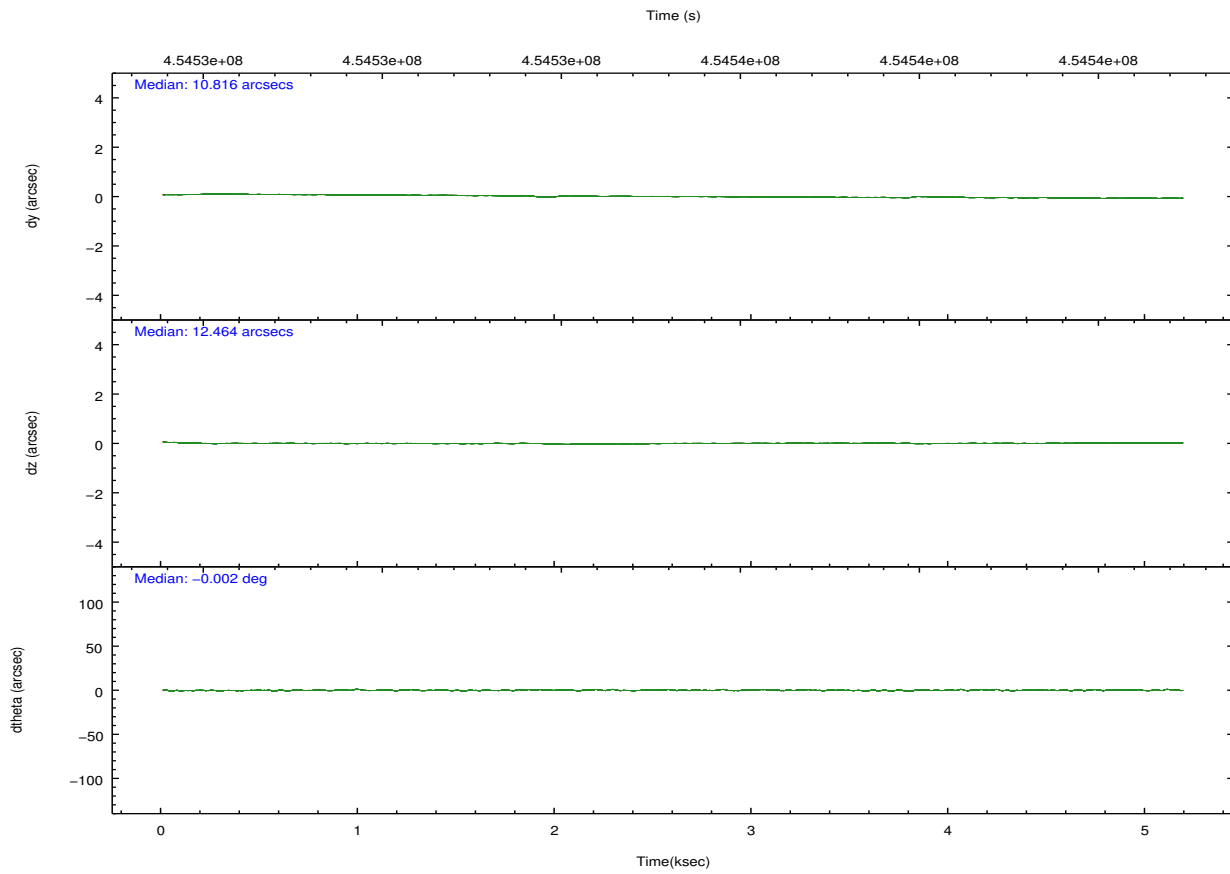
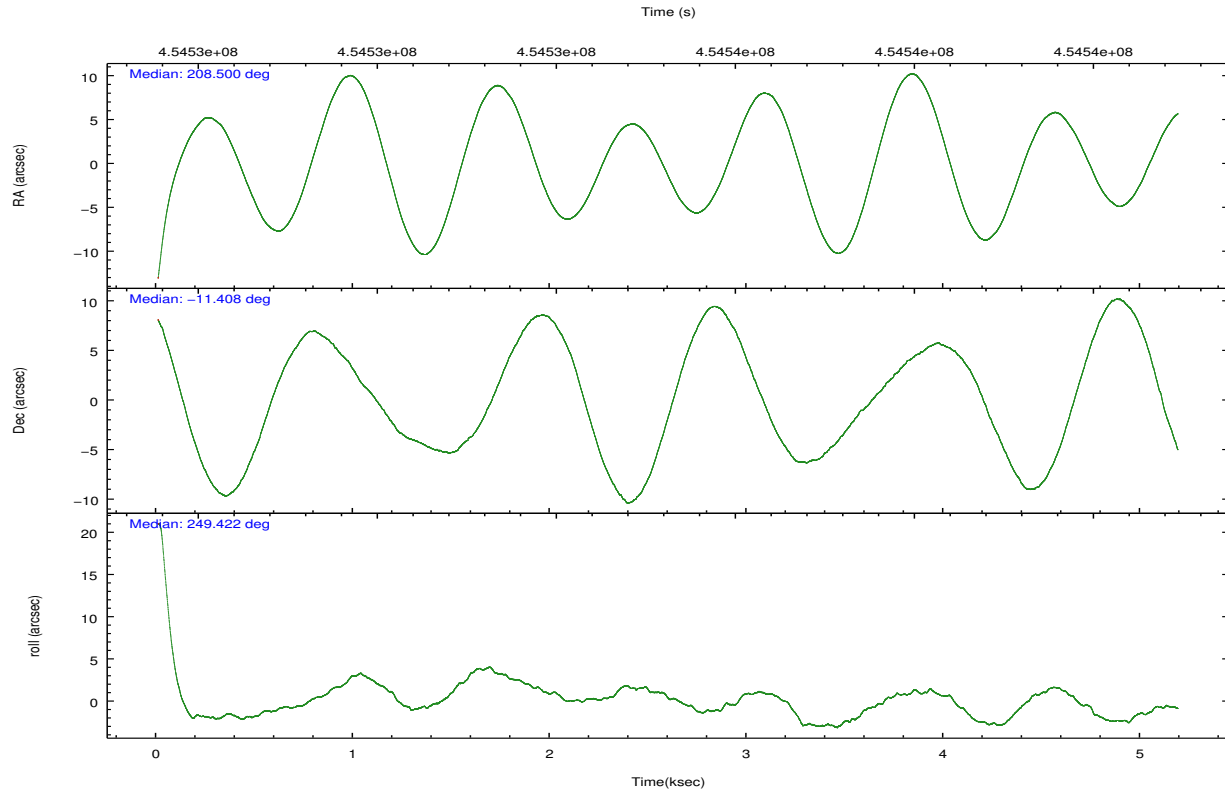


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-0123	ACIS-0123	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	208.494819	208.4995488483541	Subarray requested	NONE	NONE
[deg] Pointing Dec	-11.380963	-11.40806429915697	Alternating exposures requested	N	N
[deg] Pointing Roll	249.219123	249.4288010006531	[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)	454532227.184000	454530981.75998			
Observation start date	2012-05-27T18:56:01	2012-05-27T18:36:21			
[s] Observation end time (MET)	454537227.184000	454538165.47286			
Observation end date	2012-05-27T20:19:21	2012-05-27T20:36:05			
Read mode	TIMED	TIMED			

## 2.3 Aspect



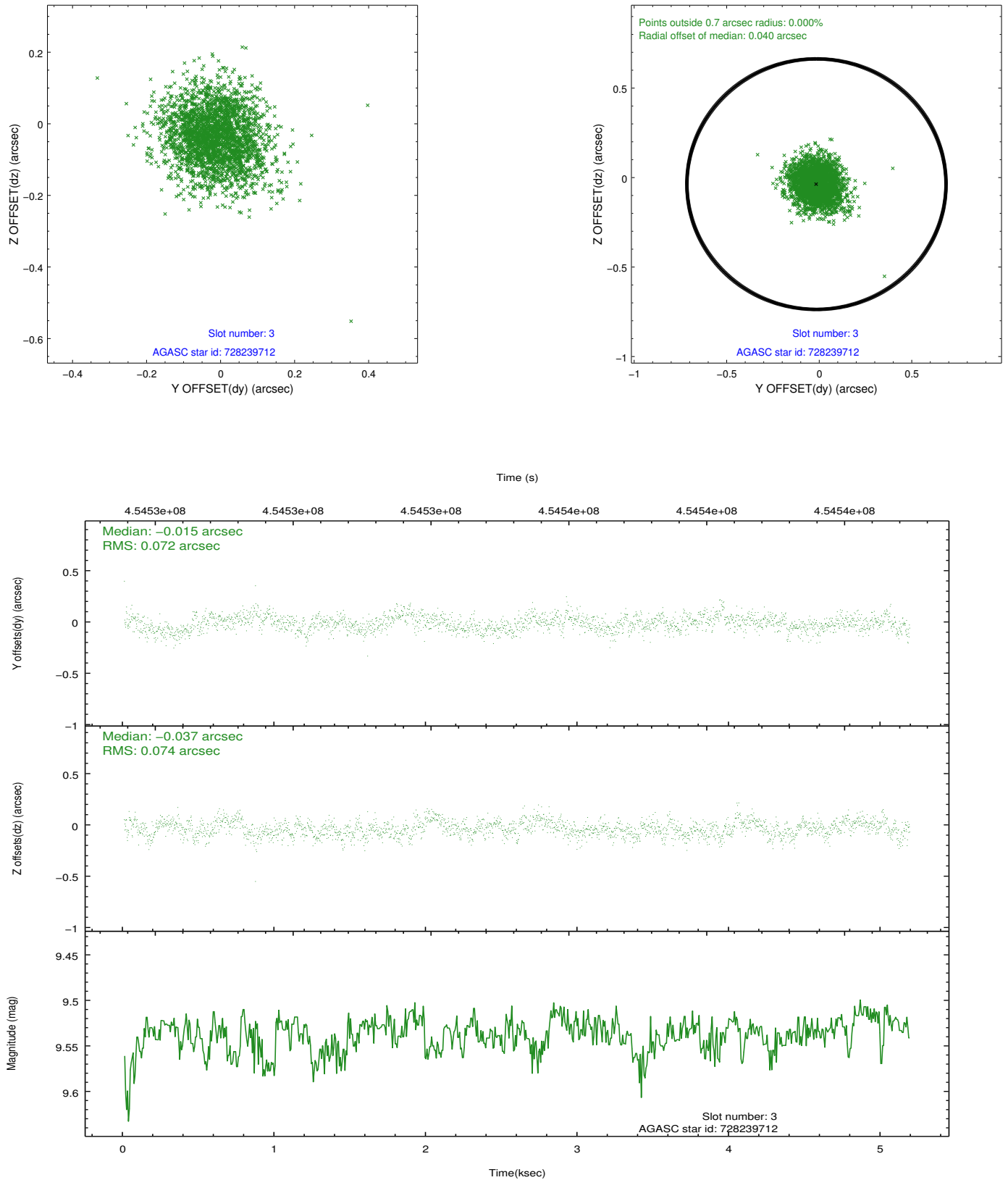


### Slot Statistics

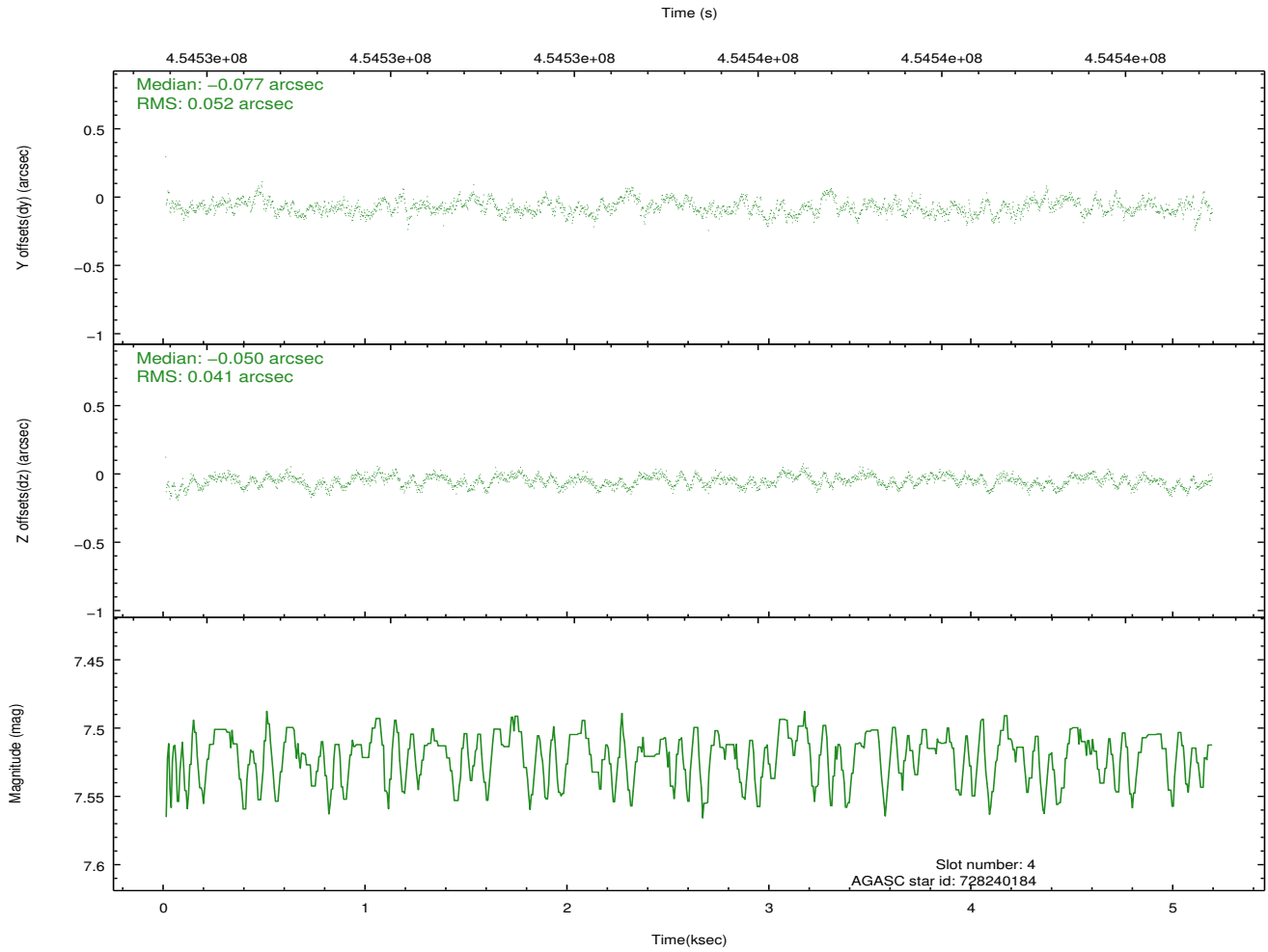
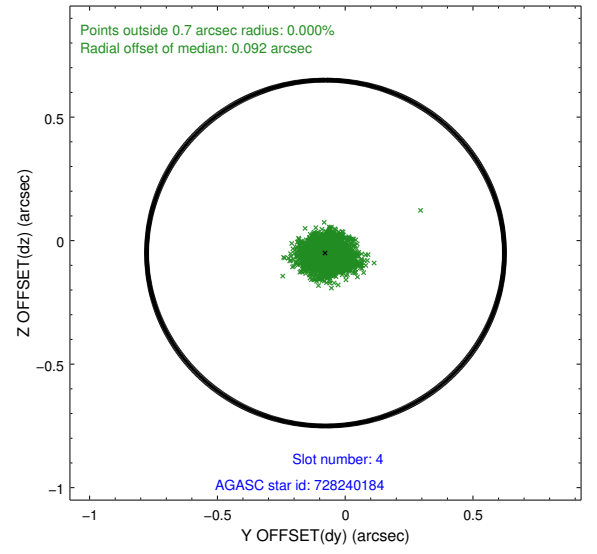
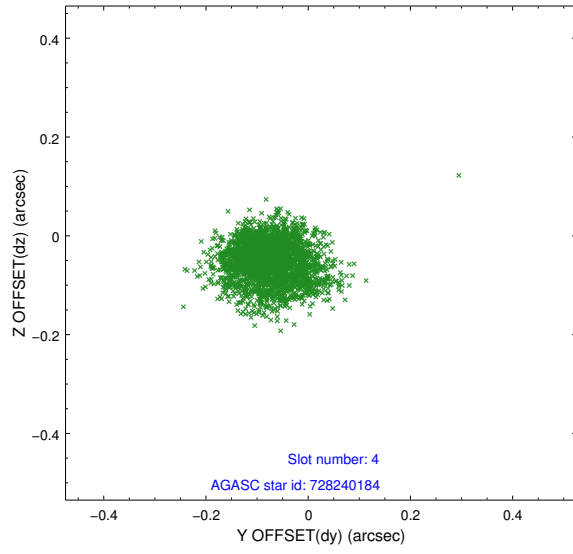
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.11	1265	0.097	-0.049	0.006	0.010	0.000000	0.000000	928.84	-836.05
1	FID	ACIS-I-5	7.09	1264	-0.213	0.100	0.006	0.011	0.000000	0.000000	-1818.92	1061.01
2	FID	ACIS-I-6	7.10	1264	0.025	0.019	0.007	0.010	0.000000	0.000000	393.06	1706.75
3	GUIDE	728239712	9.54	2528	-0.015	-0.037	0.109	0.177	208.055056	-11.469687	850.80	-1336.87
4	GUIDE	728240184	7.52	2529	-0.077	-0.050	0.070	0.113	208.224030	-10.682597	-2009.02	-1788.82
5	GUIDE	728242024	8.50	2529	0.038	0.046	0.074	0.123	207.746757	-11.418672	1066.71	-2418.96
6	GUIDE	728248504	7.82	2528	0.080	0.009	0.070	0.113	208.881327	-12.223064	2353.50	2346.76
7	GUIDE	728247816	9.65	2528	-0.030	0.032	0.124	0.208	208.940266	-11.917686	1252.16	2153.97

## 2.4 Star Slots

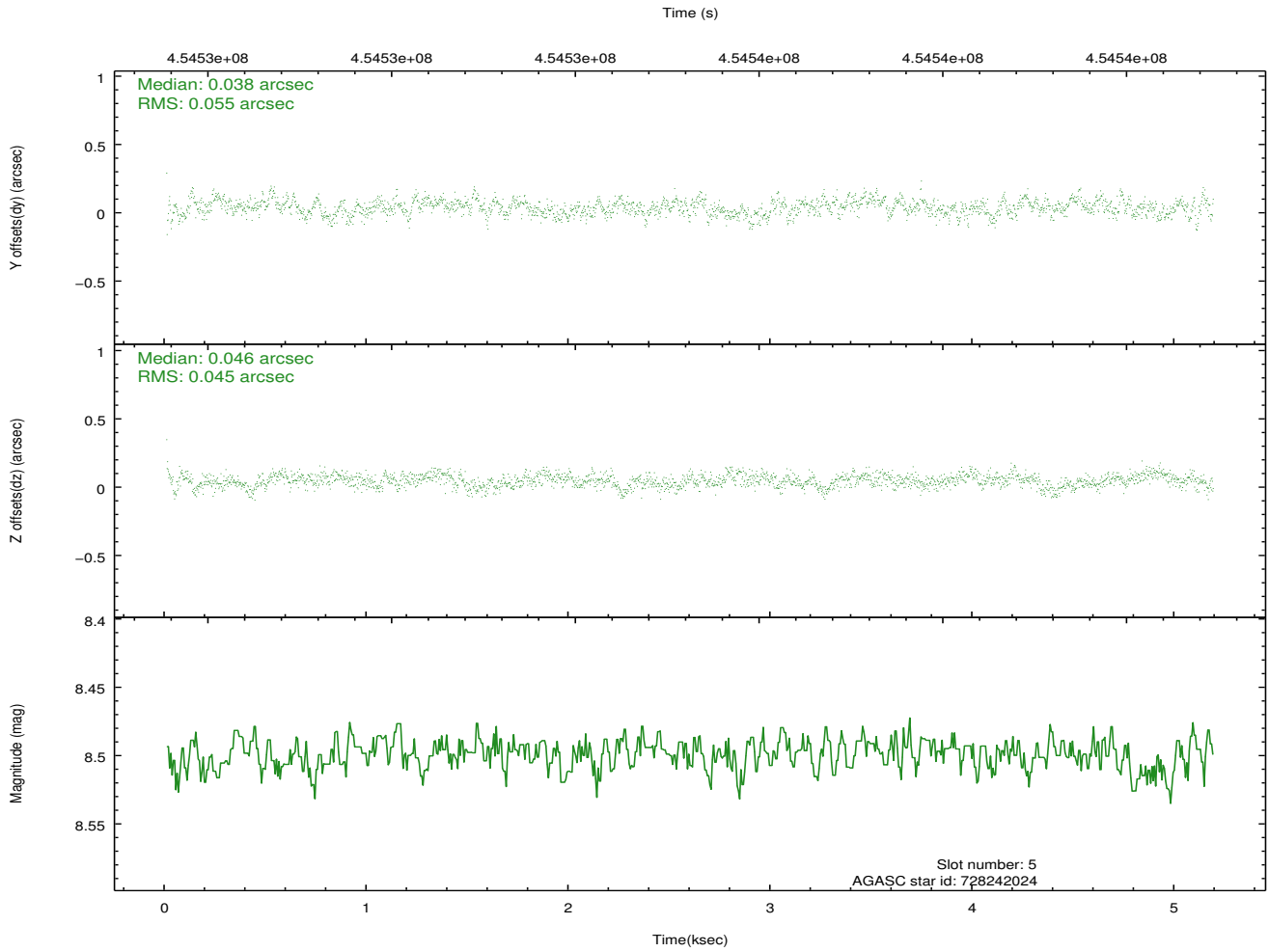
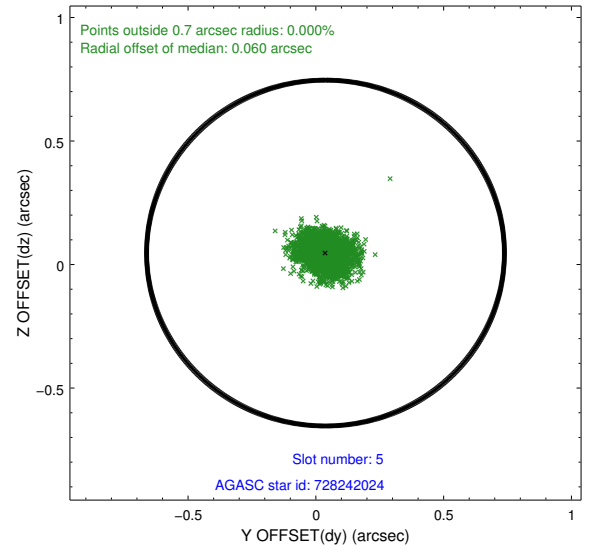
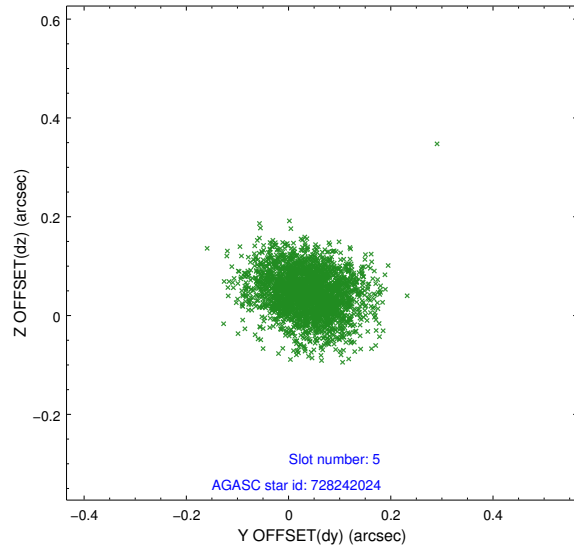
### 2.4.1 Slot 3



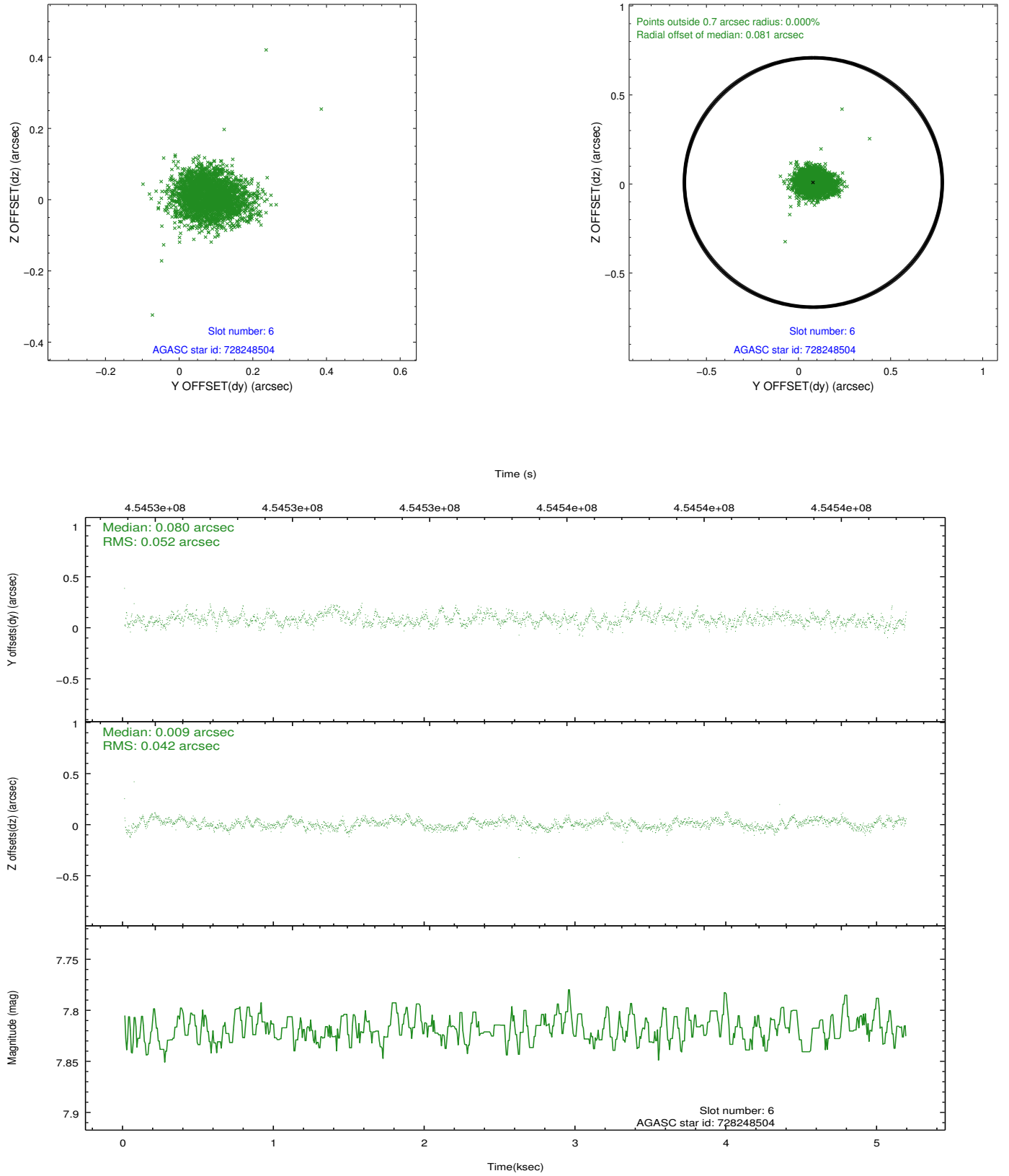
## 2.4.2 Slot 4



### 2.4.3 Slot 5

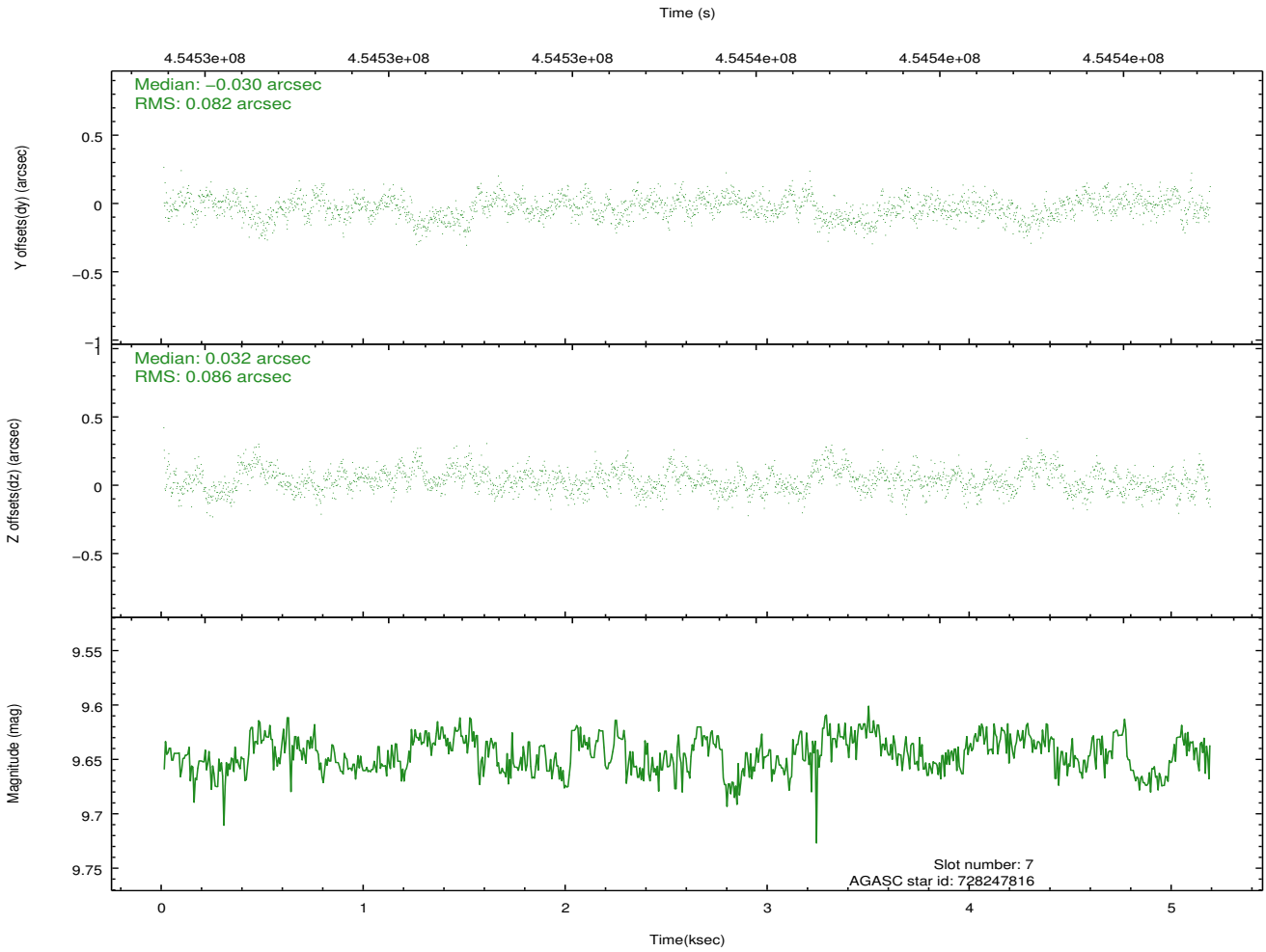
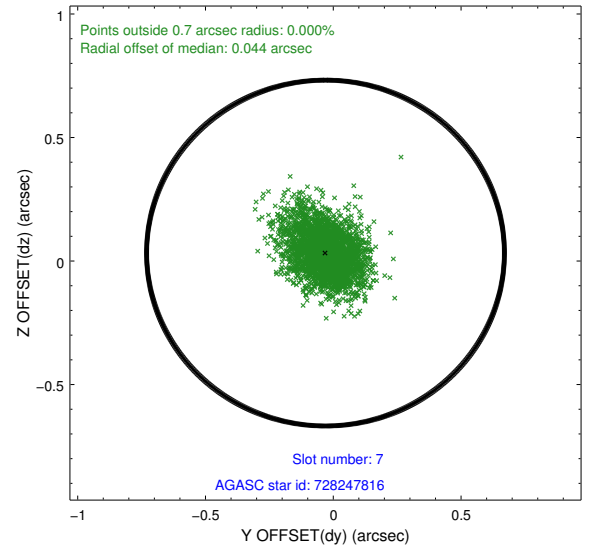
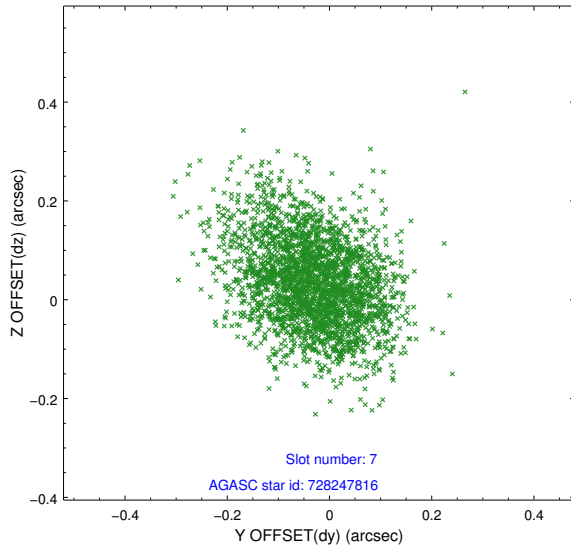


## 2.4.4 Slot 6



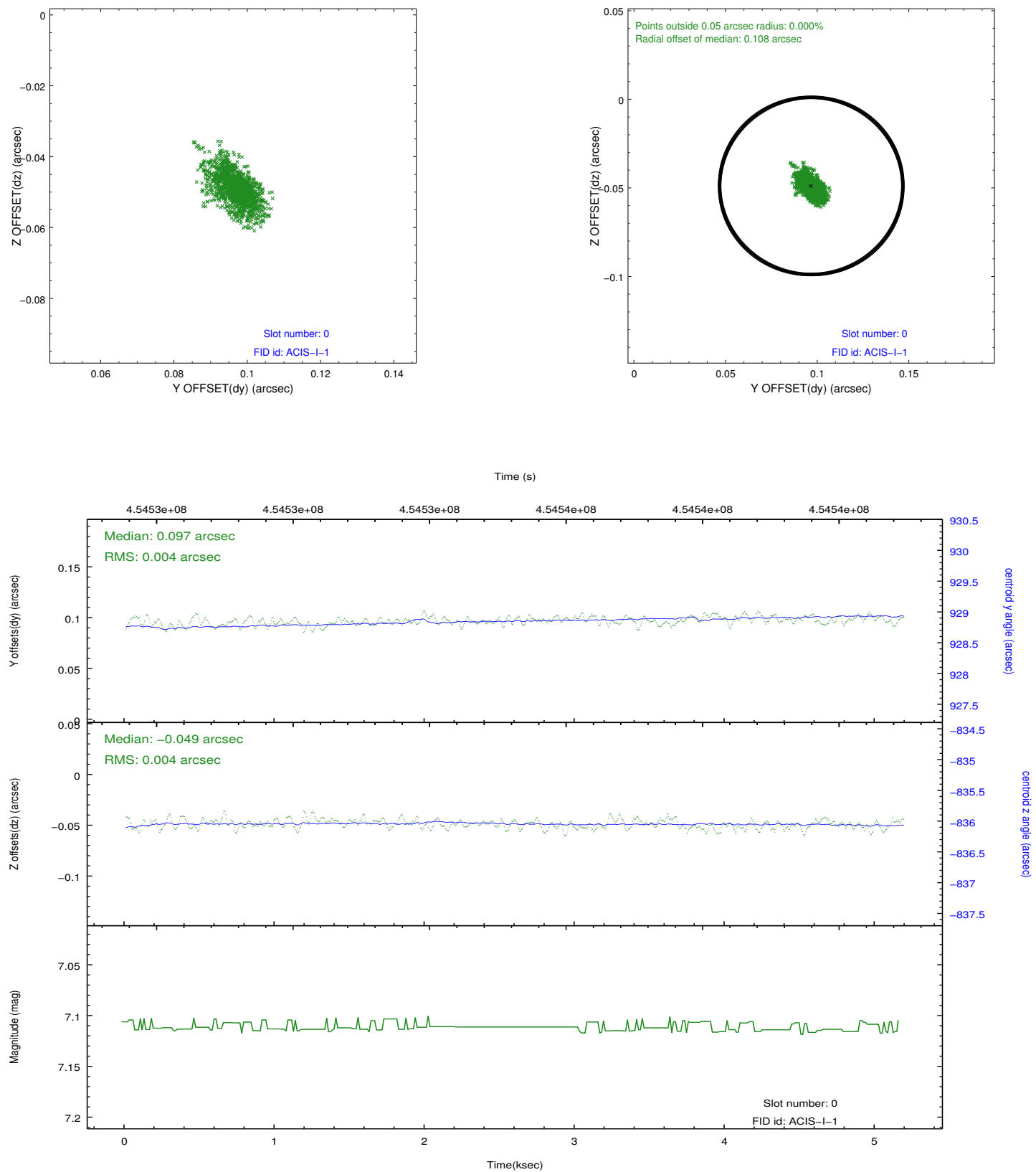


## 2.4.5 Slot 7

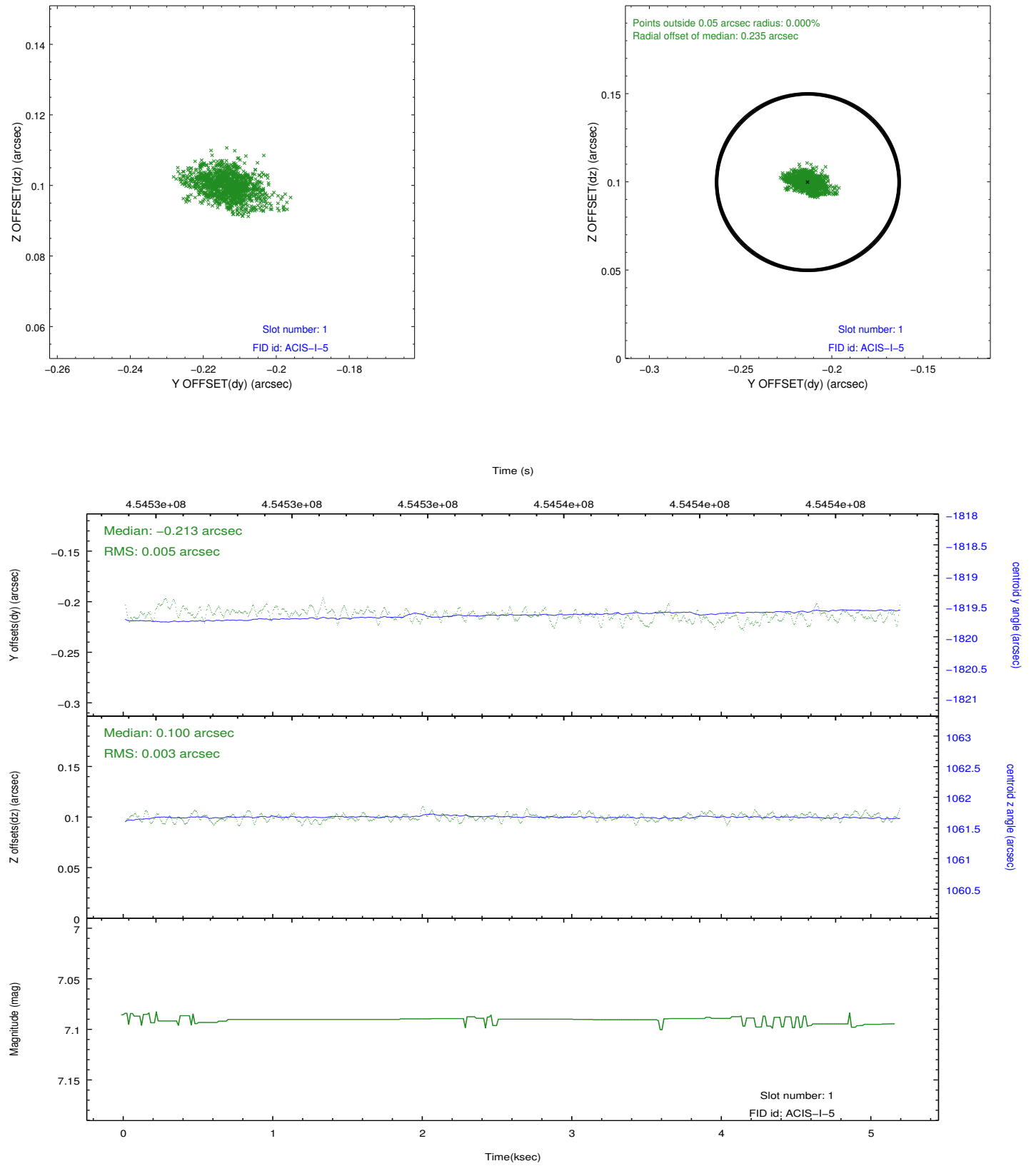


## 2.5 FID Slots

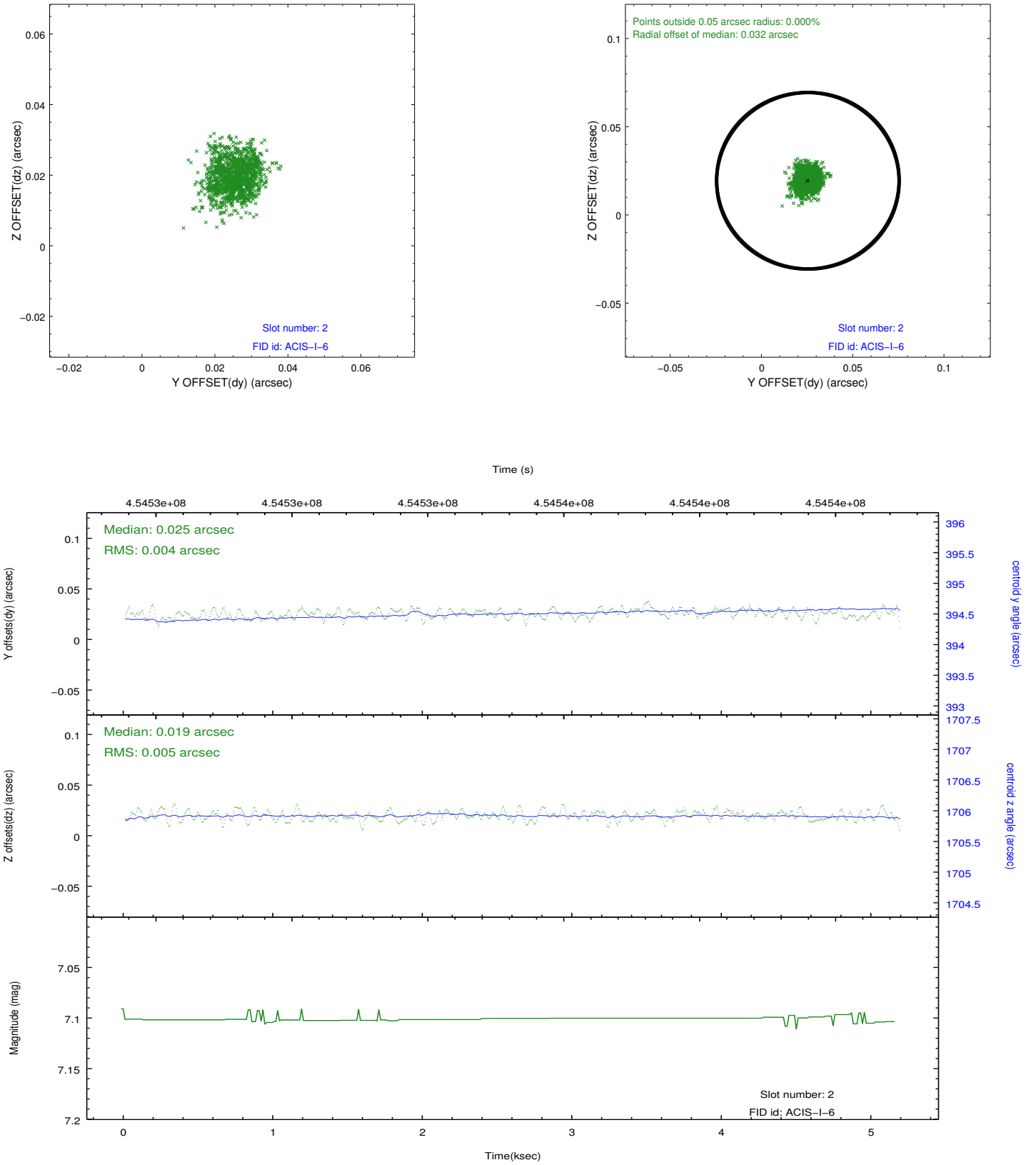
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



## A Summary

### A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.05.29
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.0863255856037

### A.2 Comments