

# V&V Reference Report

## L2 ASCDS Version : 7.6.7.1

Observation 4626 - L2 Version 001  
Chandra X-Ray Center

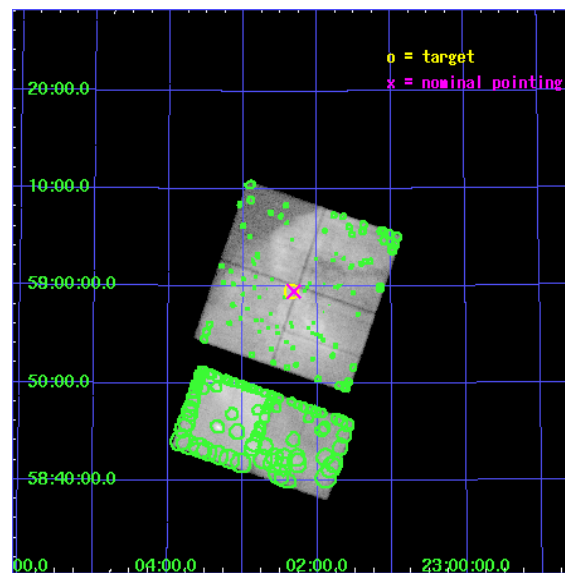
L2 Processing Date : Apr 16 2006

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# 1 Front

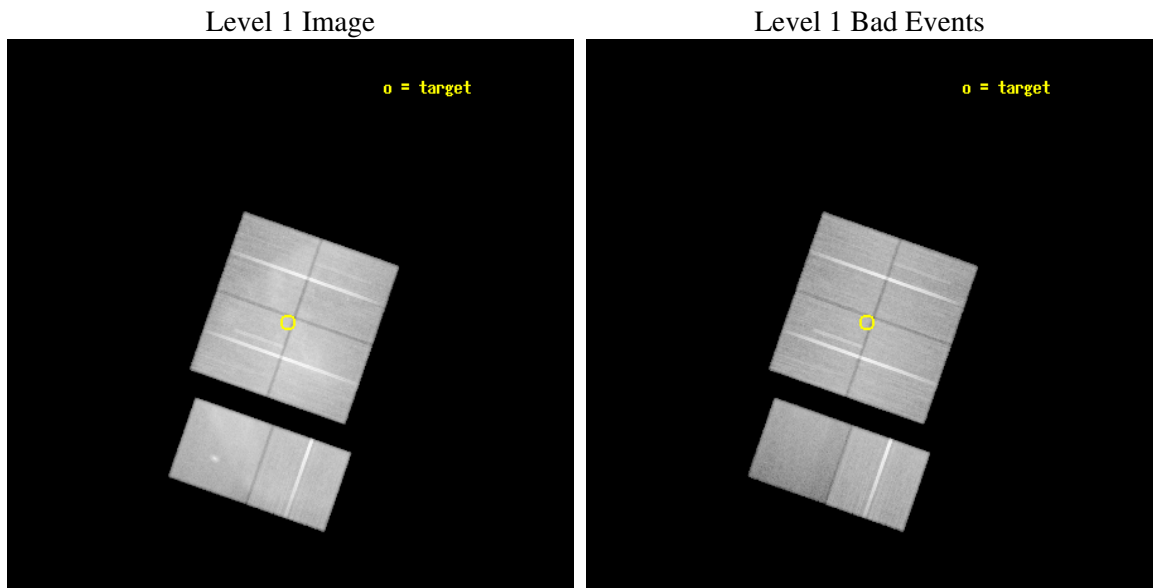
seq_num	500451
obs_id	4626
title	The Lobe in CTB-109
observer	Dr Manami Sasaki
object	CTB-109 Lobe
dtcycle	0
cycle	P
ra_targ	345.5875
dec_targ	58.990833
ra_nom	345.5785377599
dec_nom	58.991138937176
roll_nom	199.21636571012
revision	2
ontime	80627.076758832
livetime	79606.128165114
ontime0	80623.835798532
ontime1	80623.835788578
ontime2	80633.558729321
ontime3	80627.076758832
ontime6	80620.594868094
ontime7	80636.799699605
l2events	1146333



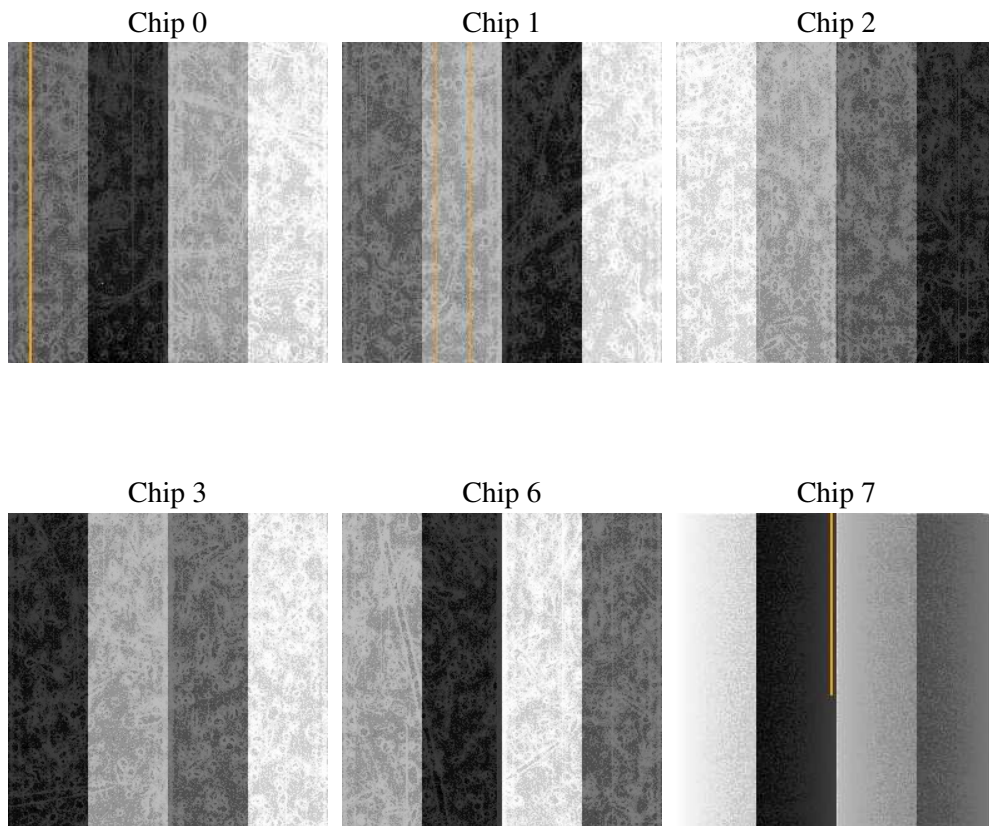
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0
ascdsver	7.6.7.1
caldsver	3.2.1
date	2006-04-16T19:52:38
revision	2

sched_exp_time	80500.000000
ontime	81896.92767027
ontime0	81893.68670997
ontime1	81893.686670125
ontime2	81903.409640759
ontime3	81896.92767027
ontime6	81890.445779532
ontime7	81906.650630981
l1events	3686600

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	577085	554126	720394	644023	626434	564538
rejected events	401722	405139	476237	448200	462740	265496
rejected %	69%	73%	66%	69%	73%	47%

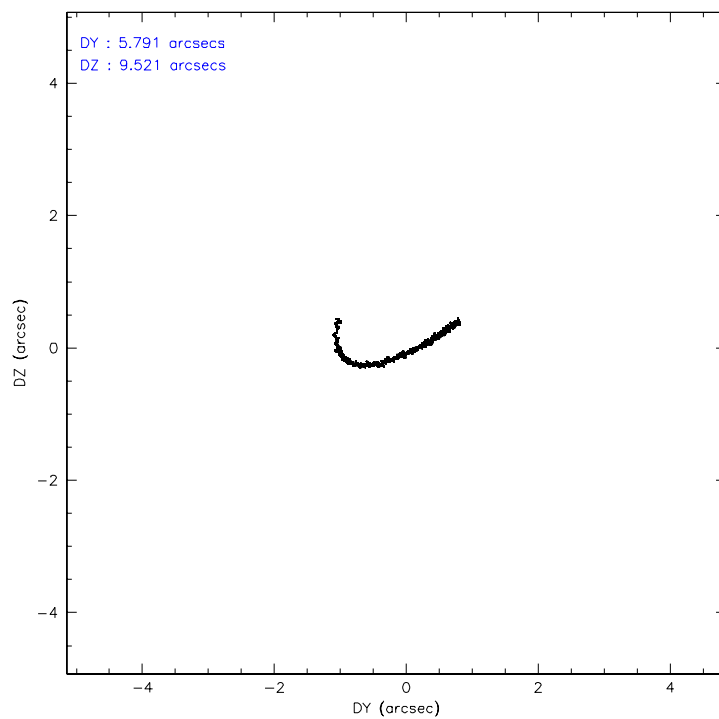
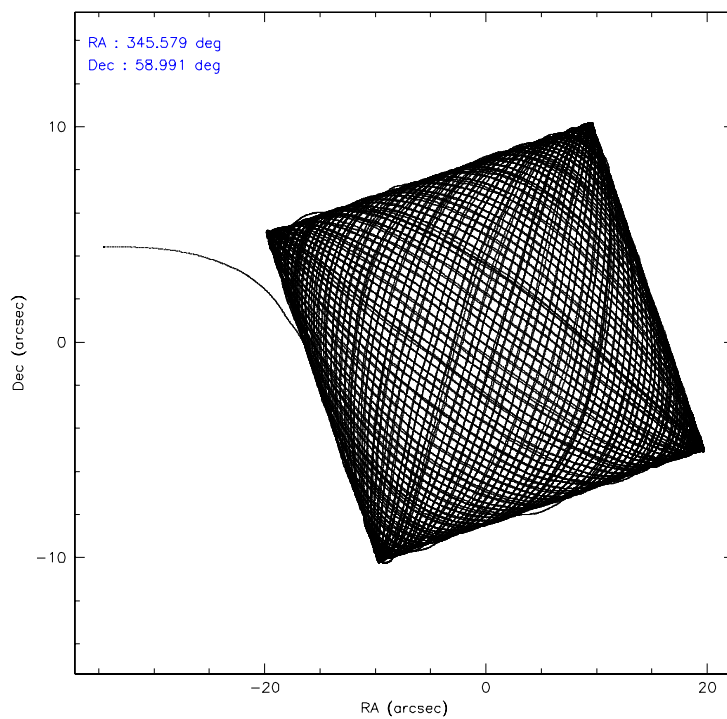
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	129215	105625	193332	149950	118874	40507
	22%	19%	26%	23%	18%	7%
grade 1 events	722	584	1124	877	590	249
	0%	0%	0%	0%	0%	0%
grade 2 events	20929	18134	24840	21108	19395	79155
	3%	3%	3%	3%	3%	14%
grade 3 events	8309	7757	8734	8192	7677	21818
	1%	1%	1%	1%	1%	3%
grade 4 events	7747	7627	8795	8045	7497	21302
	1%	1%	1%	1%	1%	3%
grade 5 events	15214	16712	14603	17389	17816	37237
	2%	3%	2%	2%	2%	6%
grade 6 events	10221	10963	9790	9746	11281	139787
	1%	1%	1%	1%	1%	24%
grade 7 events	384728	386724	459176	428716	443304	224483
	66%	69%	63%	66%	70%	39%

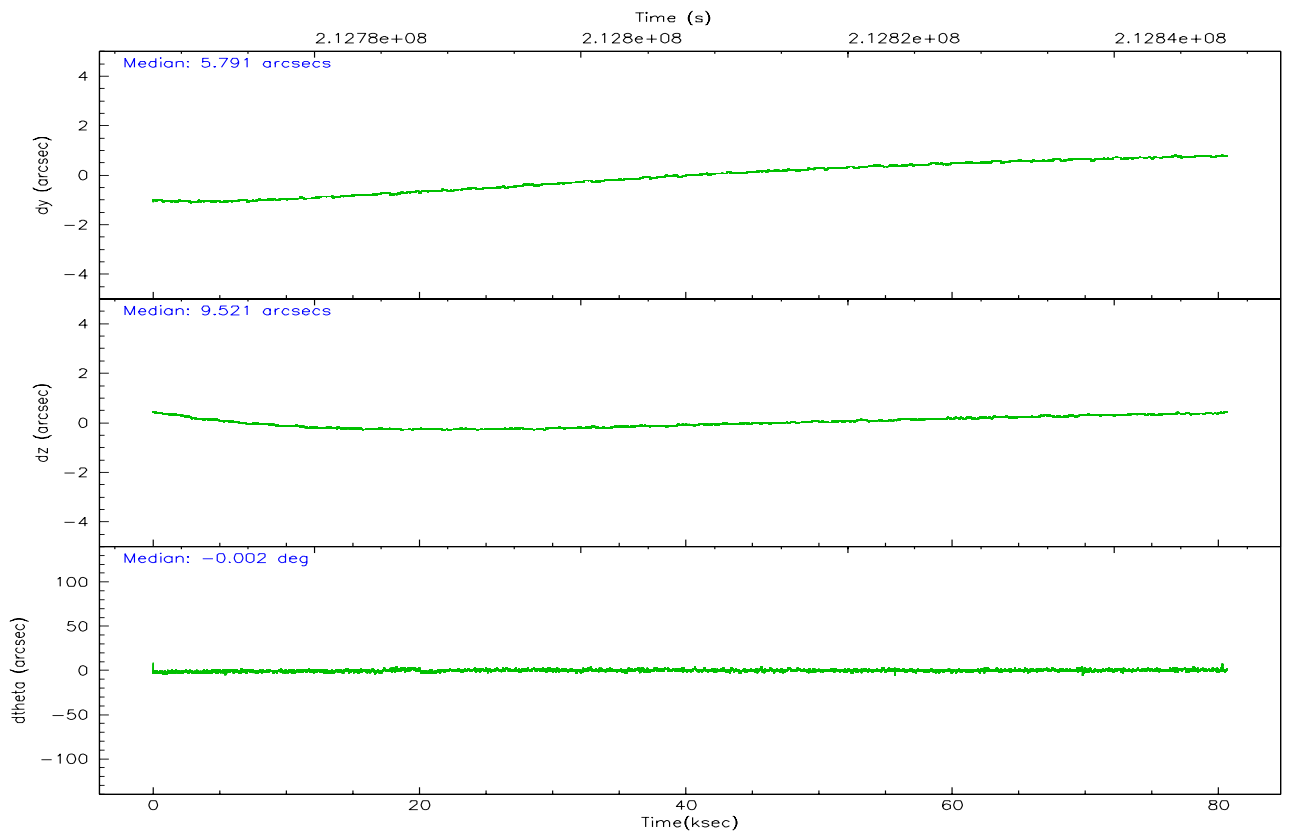
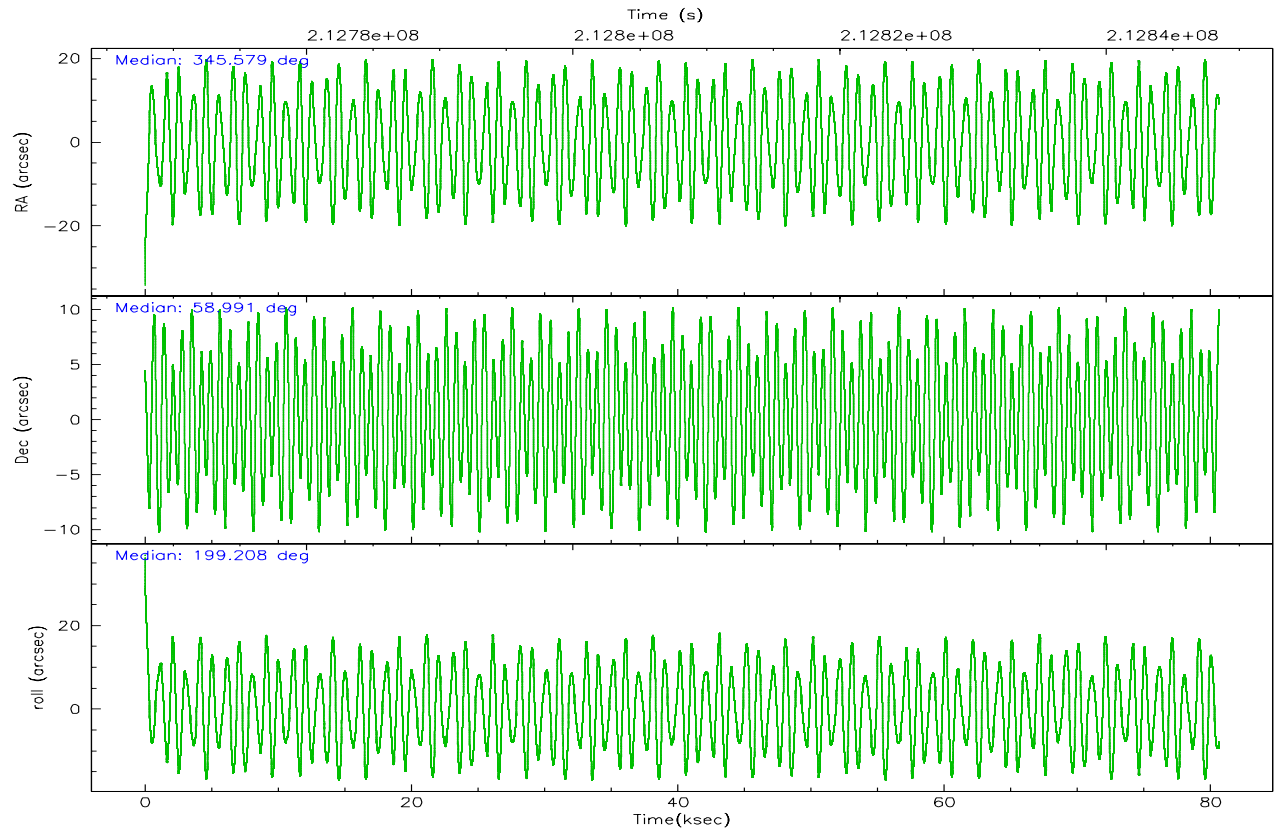


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-012367	ACIS-012367	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	On-chip summing requested	N	N
Observation mode	POINTING	POINTING	Subarray requested	NONE	NONE
Pointing RA	345.613103	345.5785377598999	Alternating exposures requested	N	N
Pointing Dec	59.011932	58.99113893717619	Primary exposure time	0.000000	3.2
Pointing Roll	198.978056	199.2163657101209			
SIM focus pos (mm)	-0.782348	-0.7809083437167272			
SIM defocus (mm)	0	0.001439871863259334			
SIM translation stage pos (mm)	-233.592463	-233.5874344608287			
SIM translation stage offset (mm)	0	-0.005018542100998502			
Observation start time	212767994.184000	212766312.23341			
Observation start date	2004-09-28T14:12:10	2004-09-28T13:45:12			
Observation end time	212848494.184000	212849103.02461			
Observation end date	2004-09-29T12:33:50	2004-09-29T12:45:03			
Read mode	TIMED	TIMED			

## 2.3 Aspect



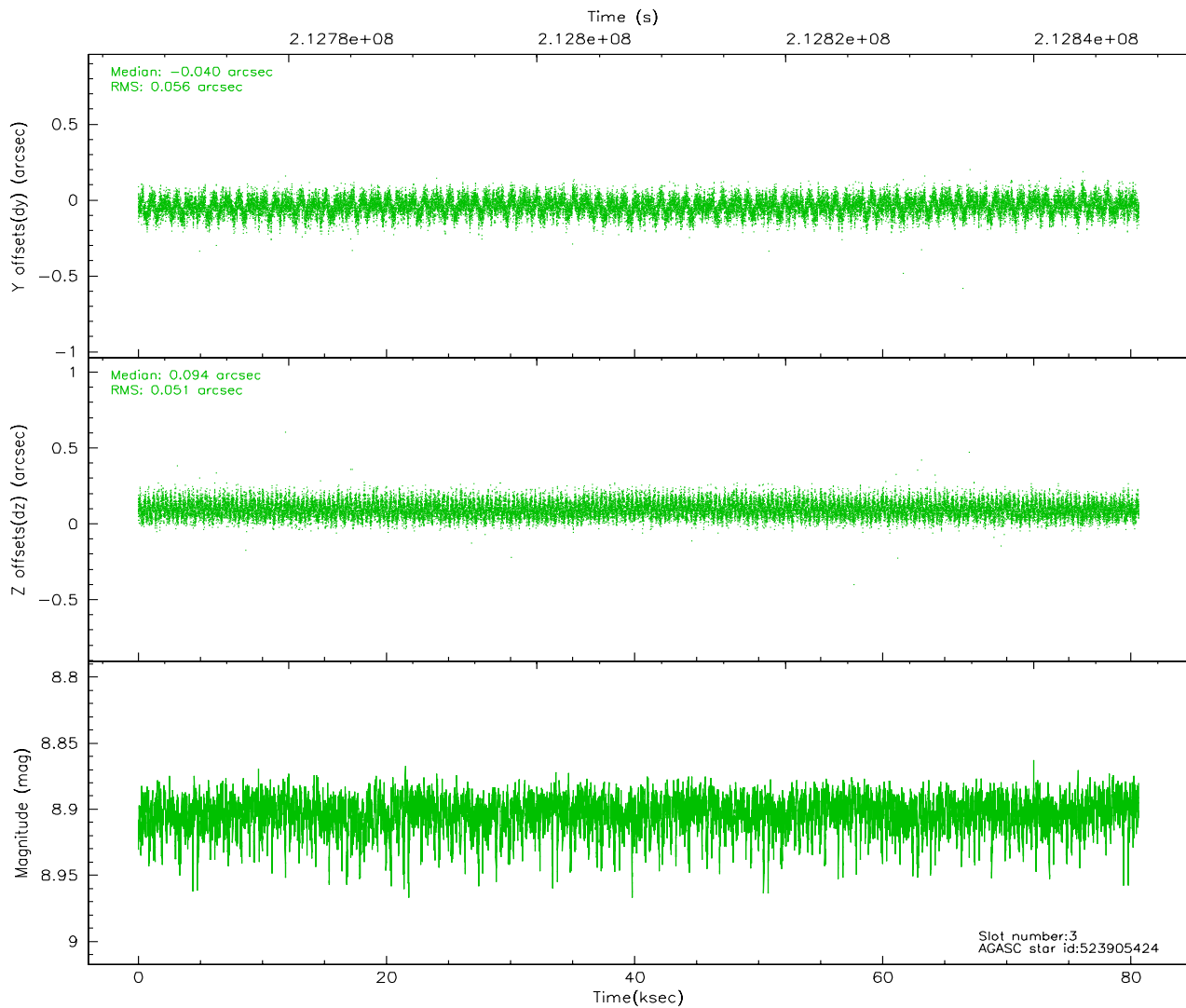
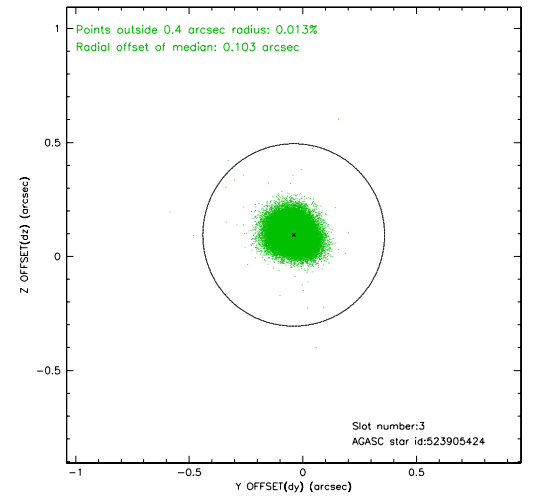
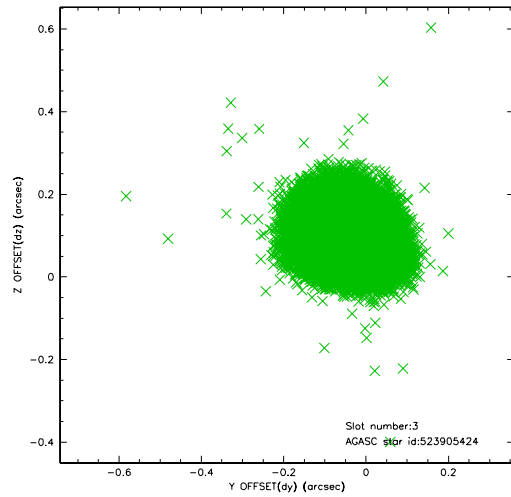


### Slot Statistics

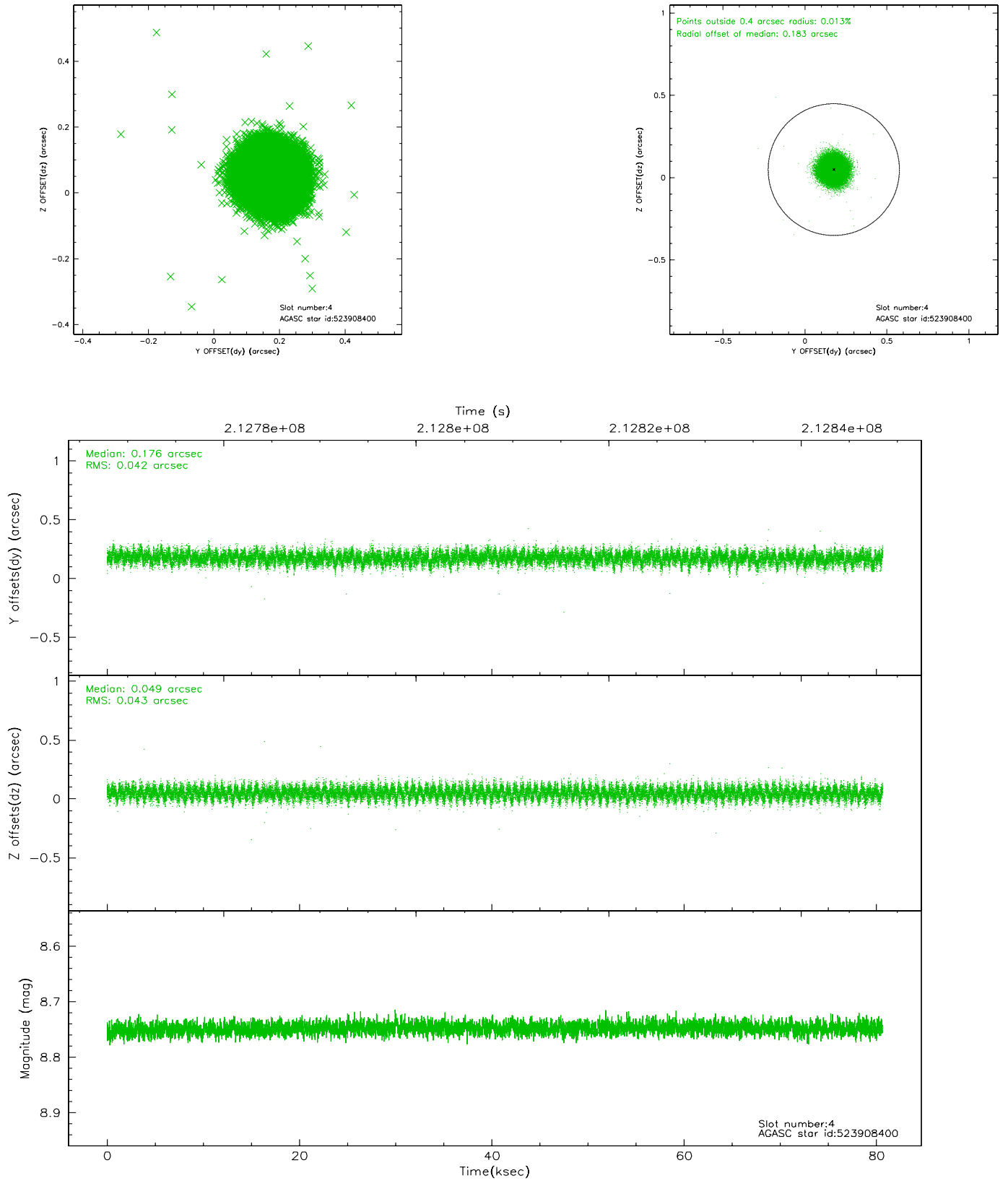
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.24	19669	-0.049	0.085	0.015	0.023	0.000000	0.000000	933.97	-832.92
1	FID	ACIS-I-2	7.14	19668	-0.080	-0.049	0.012	0.018	0.000000	0.000000	-760.19	-839.46
2	FID	ACIS-I-4	7.18	19664	0.033	0.032	0.010	0.020	0.000000	0.000000	2153.97	1066.87
3	GUIDE	523905424	8.90	39314	-0.040	0.094	0.081	0.128	344.391403	59.077650	2053.75	-977.61
4	GUIDE	523908400	8.75	39318	0.176	0.049	0.065	0.103	346.578212	58.886074	-1554.33	1000.13
5	GUIDE	523913184	8.69	39320	0.000	-0.180	0.084	0.132	346.255850	58.466726	-508.09	2244.15
6	GUIDE	523895760	9.22	39301	-0.076	0.002	0.105	0.174	345.460828	58.395581	992.99	2004.99
7	GUIDE	523896760	7.60	39329	-0.062	0.031	0.053	0.085	345.655764	59.605061	-767.49	-1993.74

## 2.4 Star Slots

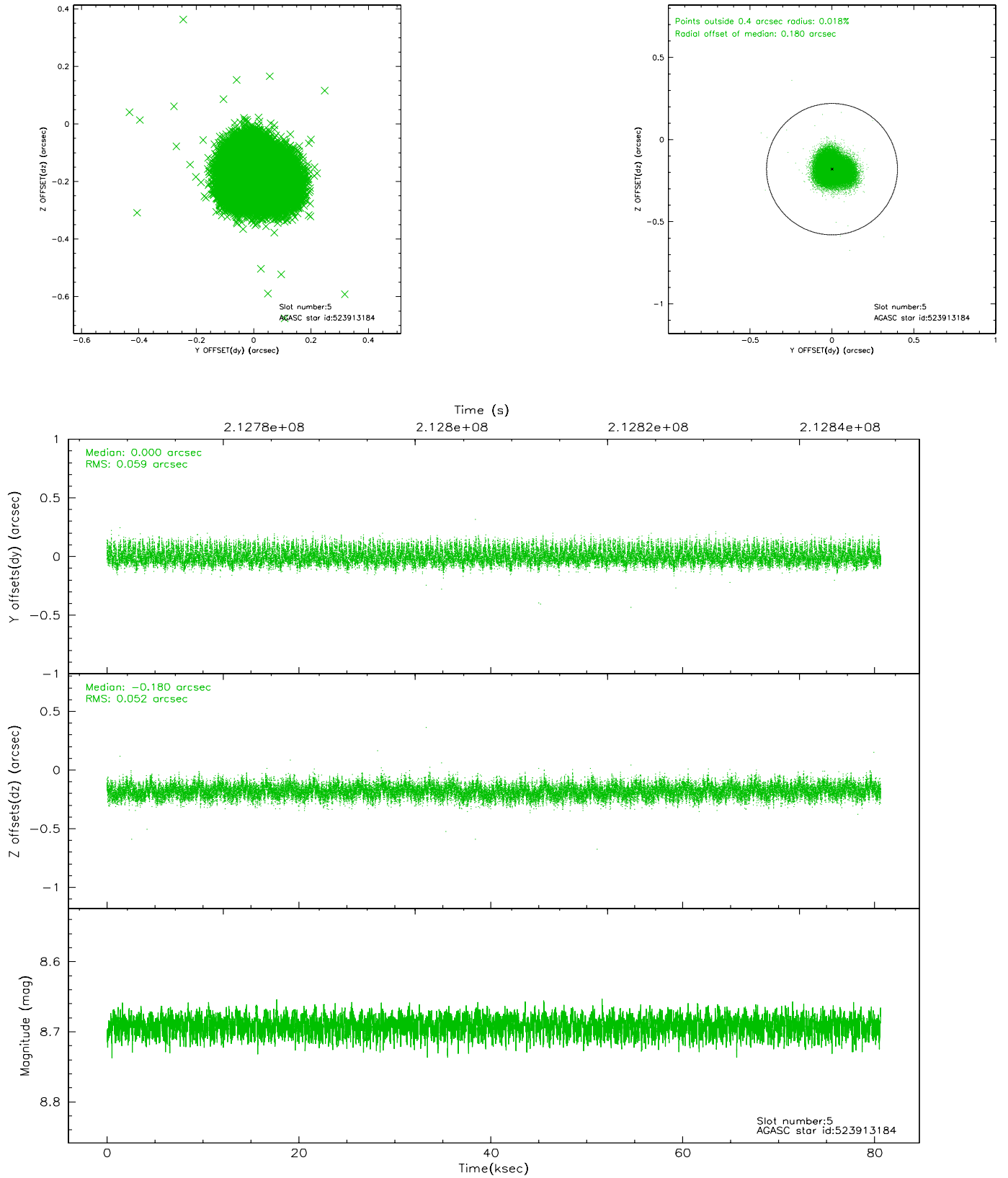
### 2.4.1 Slot 3



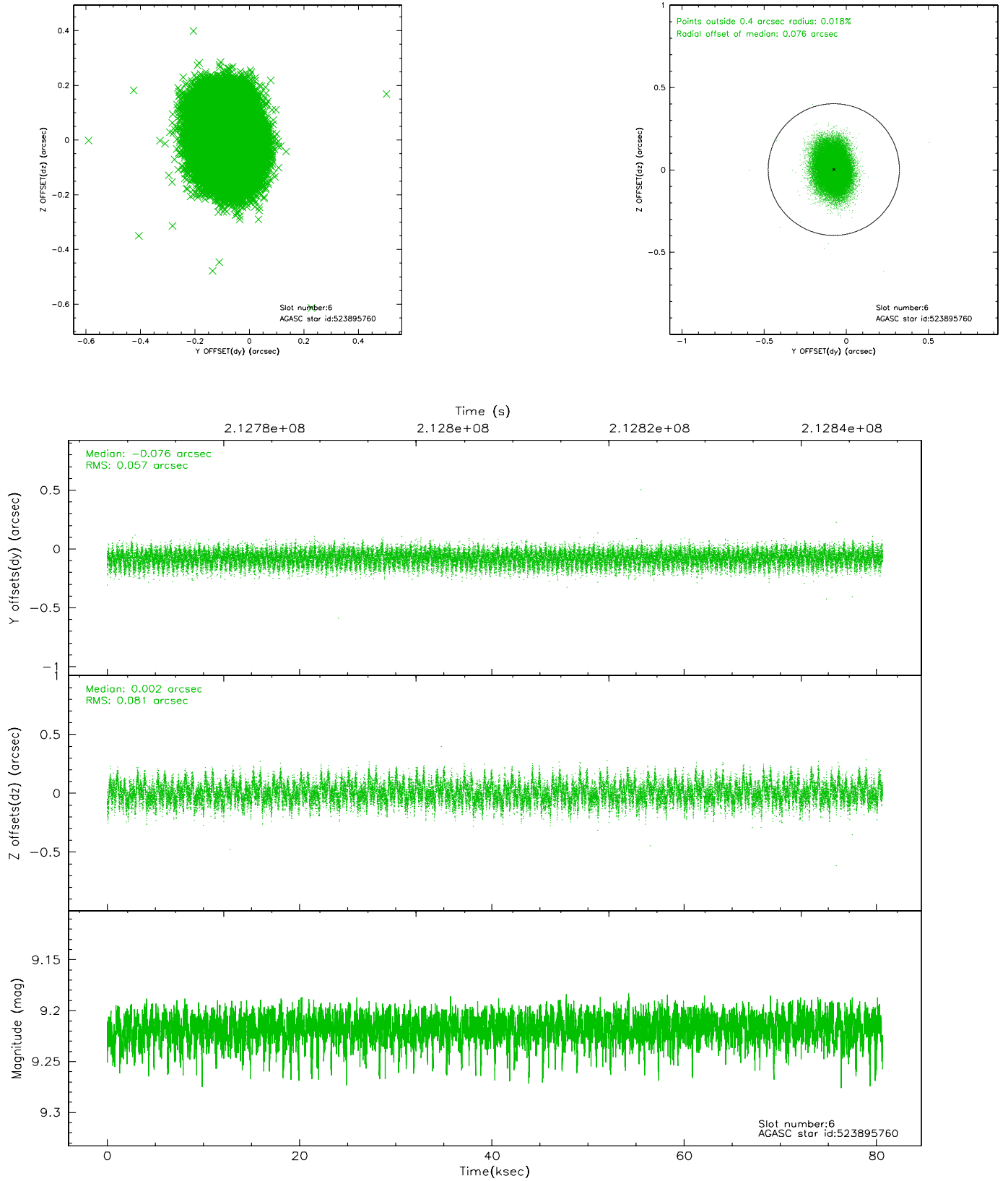
## 2.4.2 Slot 4



### 2.4.3 Slot 5

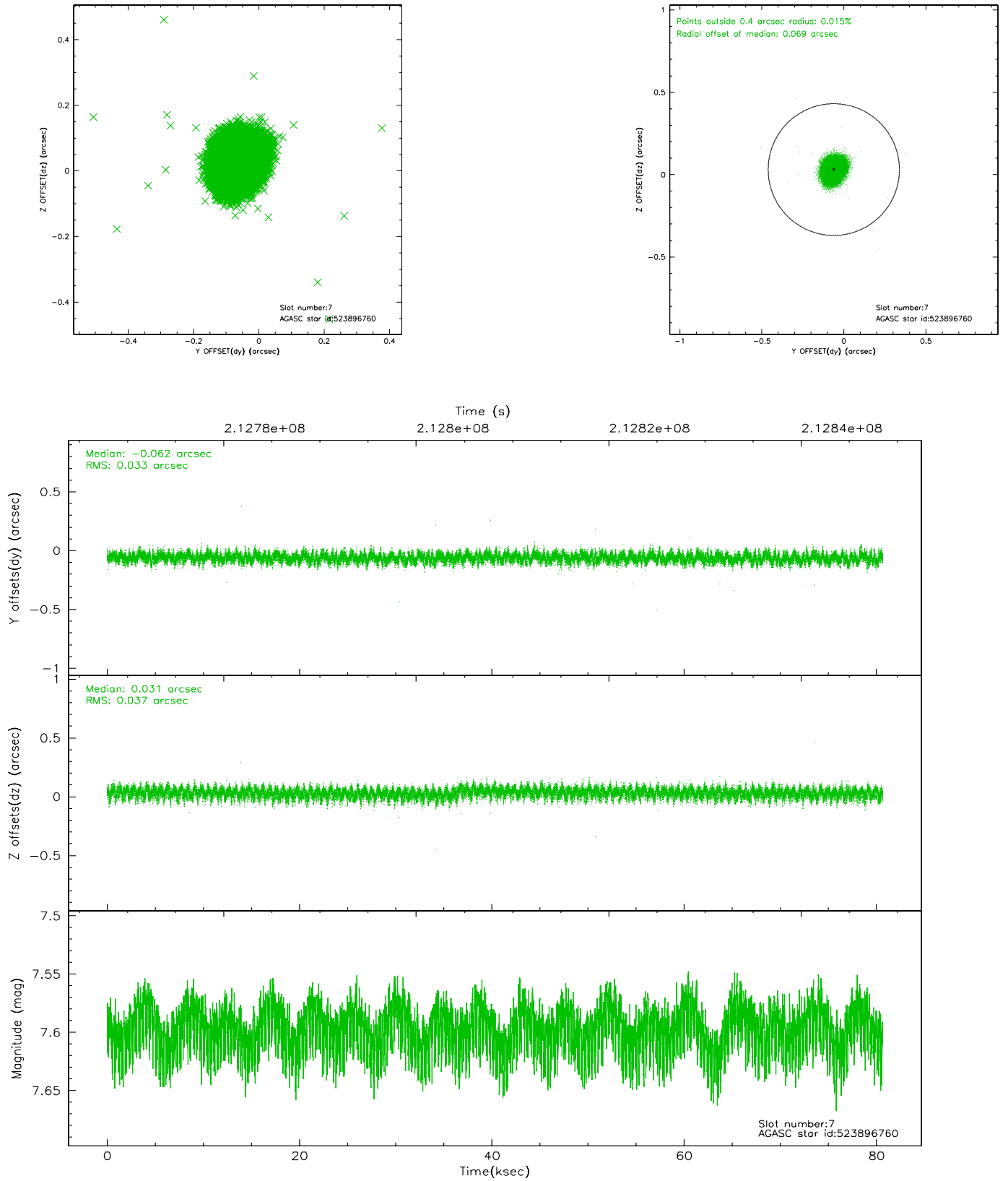


## 2.4.4 Slot 6



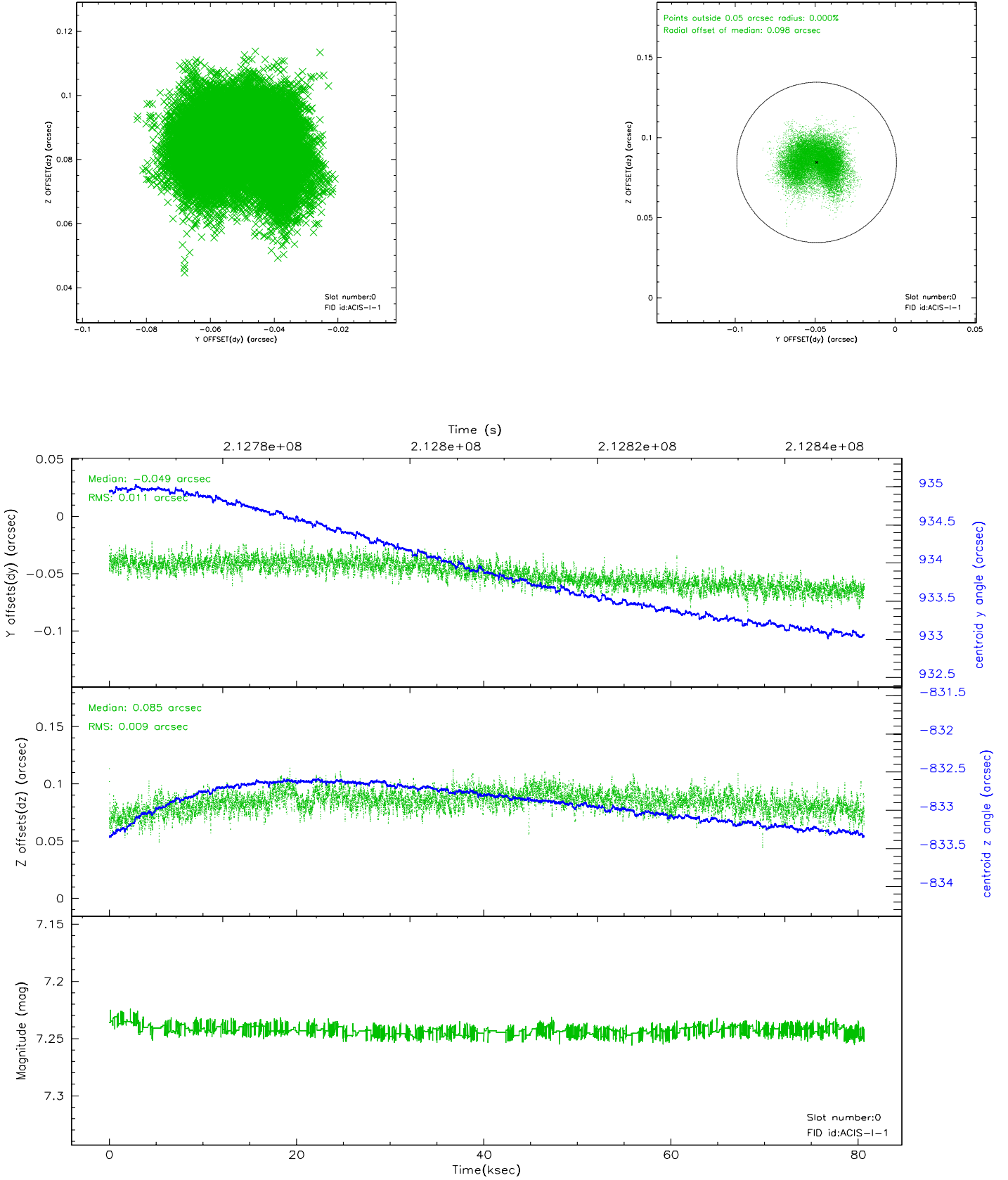


## 2.4.5 Slot 7

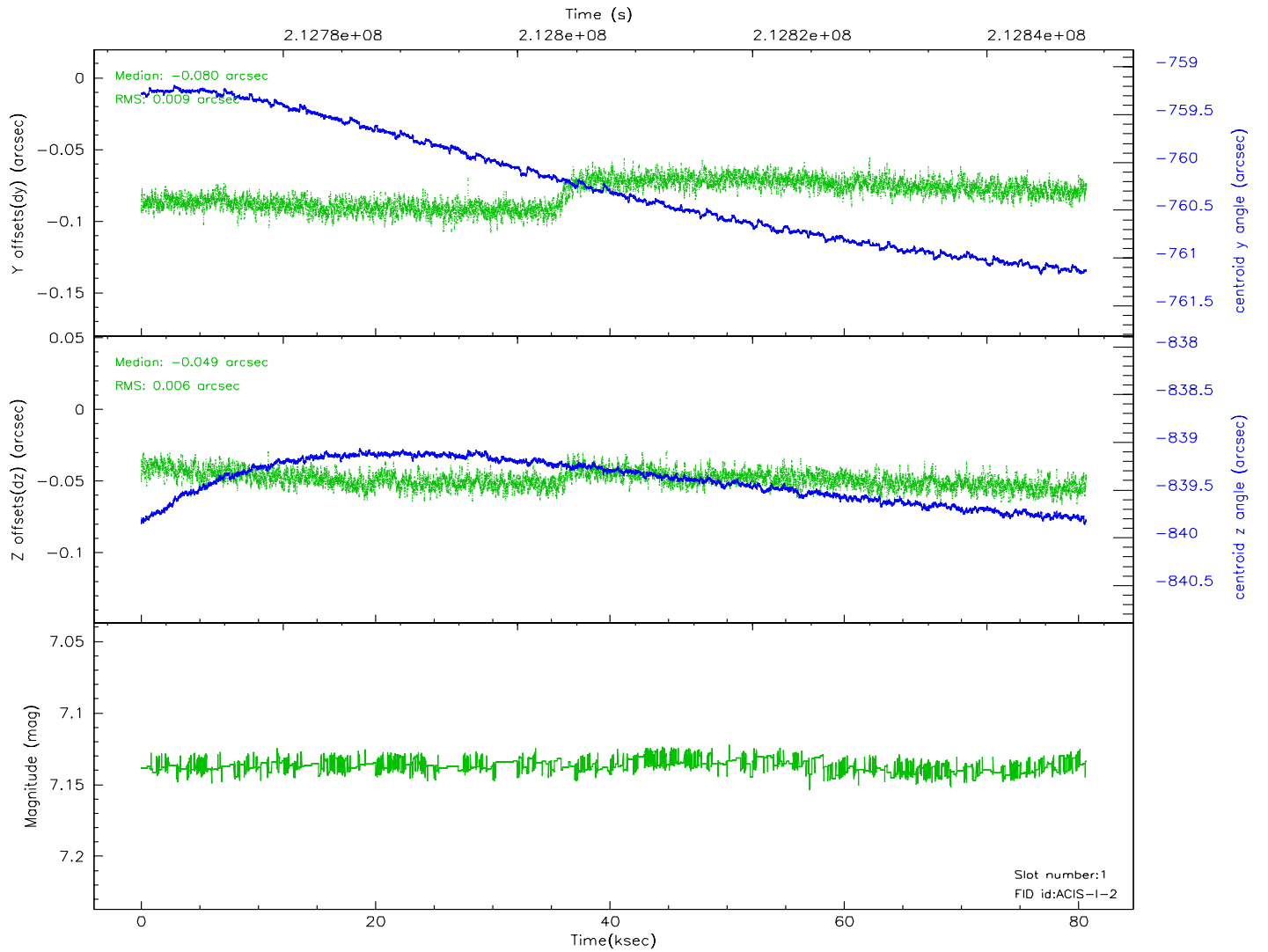
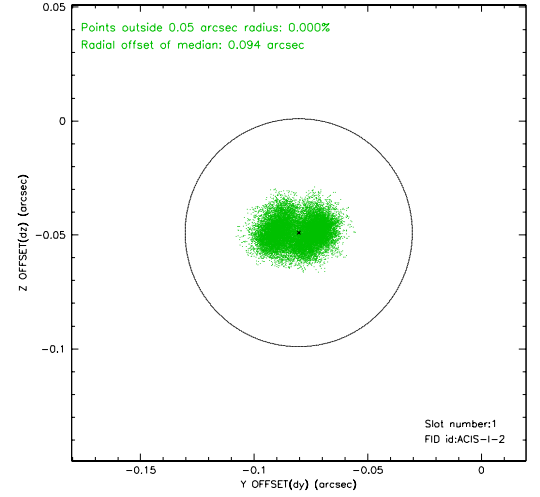
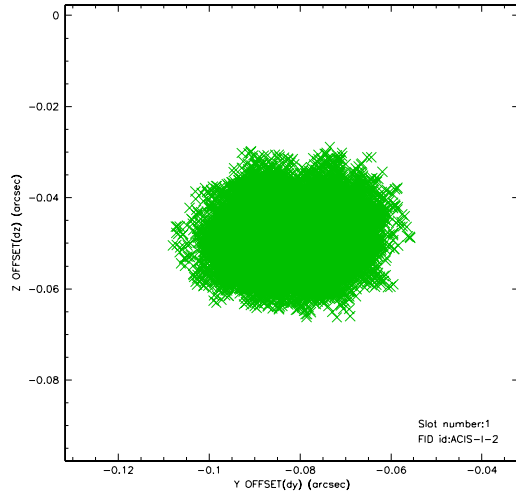


## 2.5 FID Slots

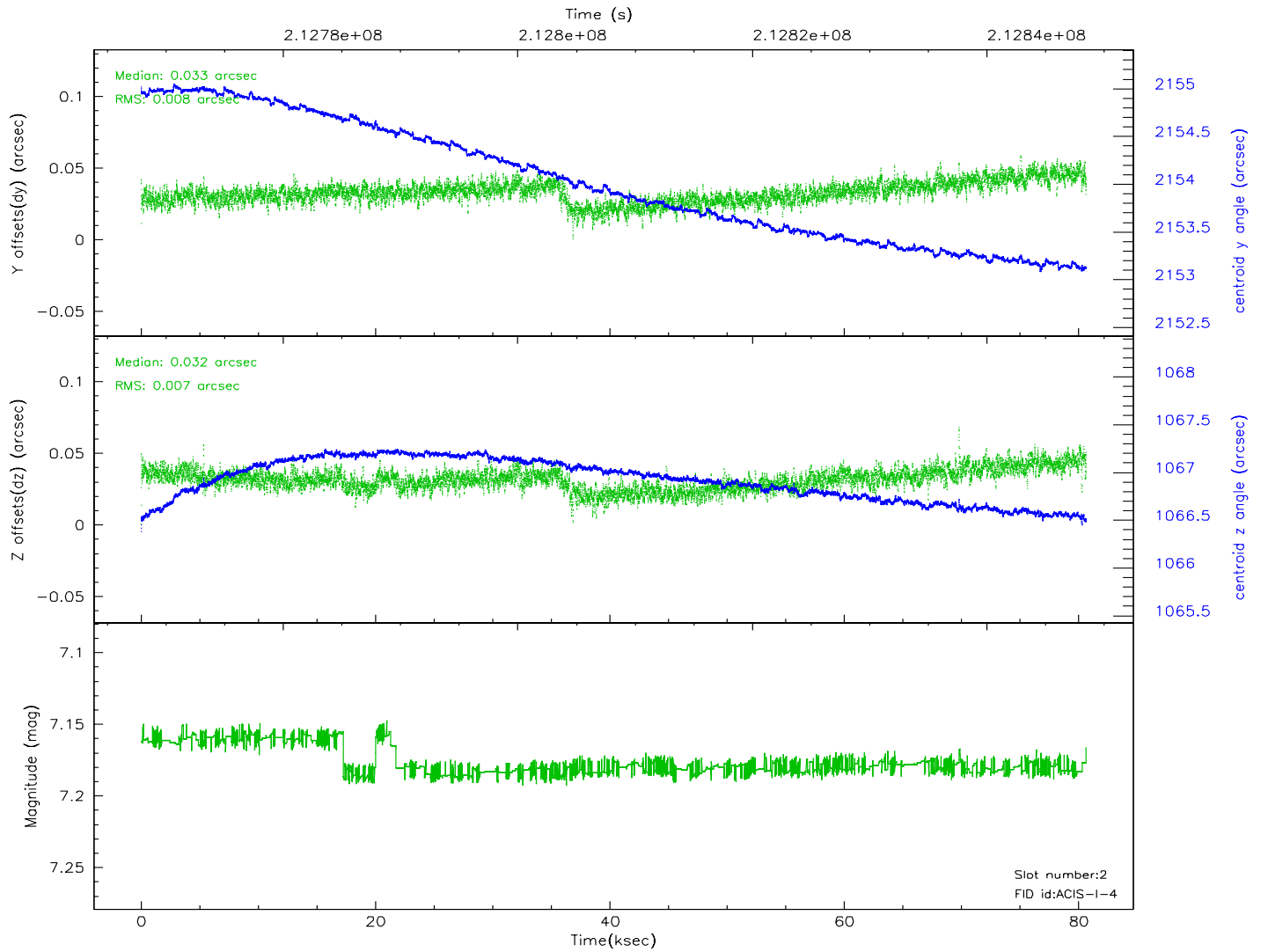
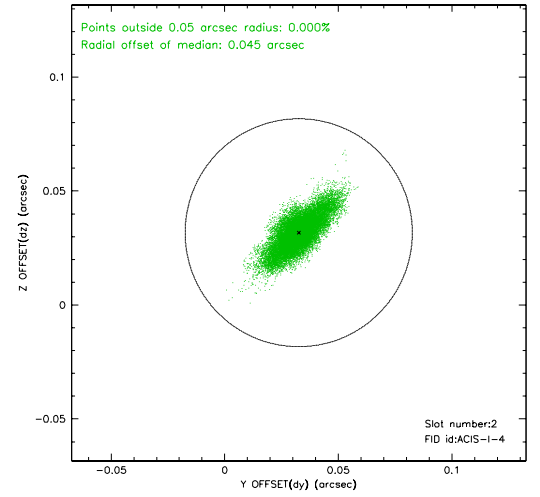
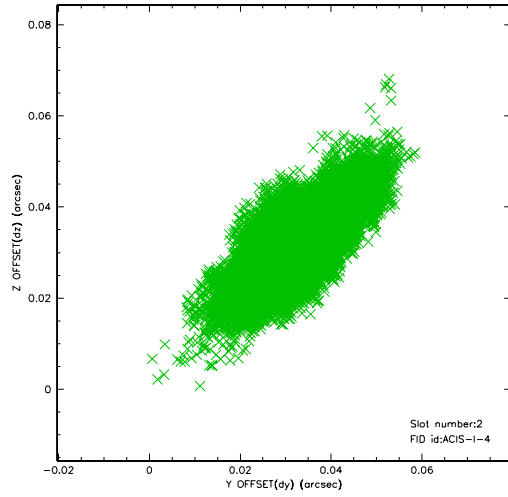
### 2.5.1 Slot 0



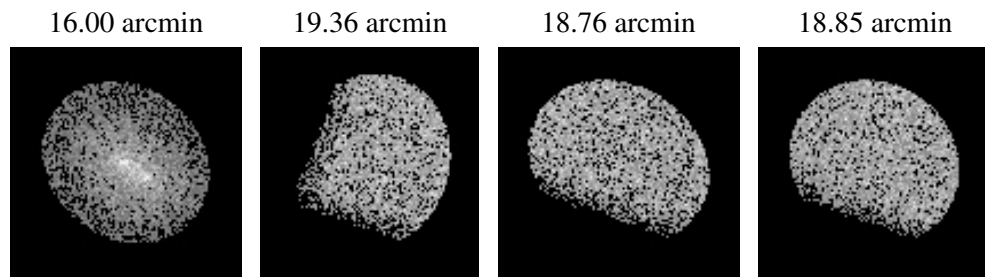
## 2.5.2 Slot 1



### 2.5.3 Slot 2



### 3 Point Sources



## A Summary

### A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2006.04.17
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	80.636

### A.2 Comments

Roll preference met.