

# V&V Reference Report

## L2 ASCDS Version : 7.6.7.1

Observation 6152 - L2 Version 3  
Chandra X-Ray Center

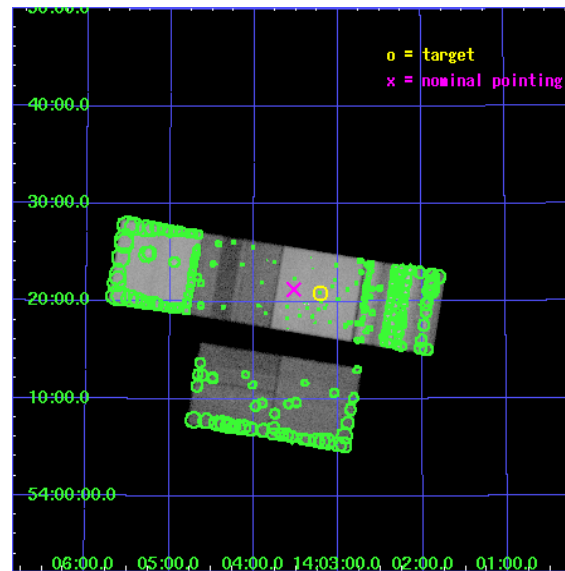
L2 Processing Date : Jan 14 2009

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# 1 Front

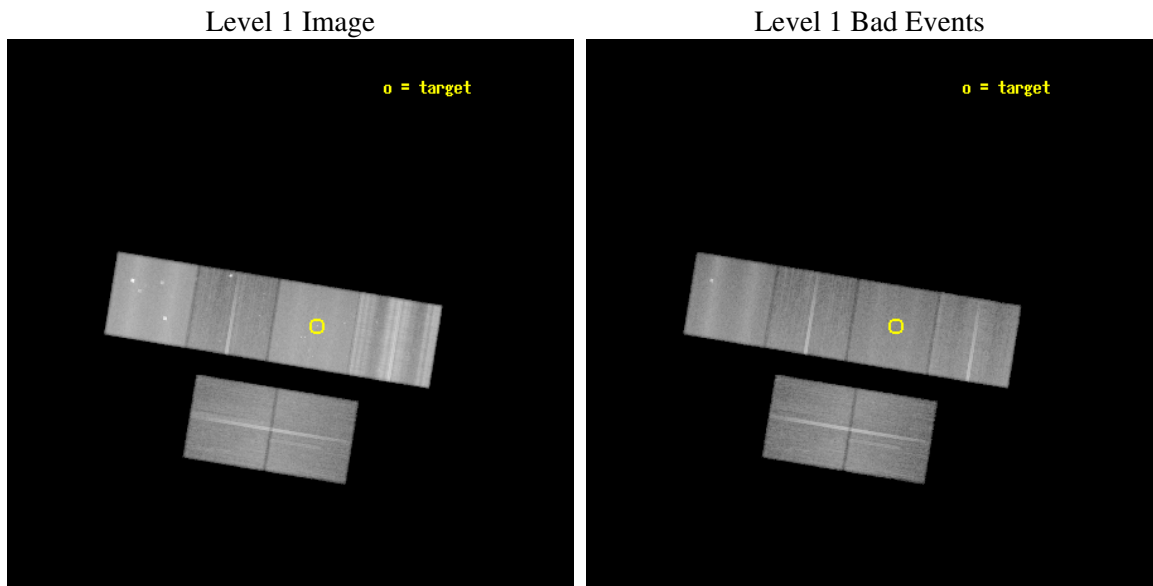
seq_num	600391
obs_id	6152
title	An Ultra-Deep Study of M101
observer	Dr. K. Kuntz
object	M101
dtcycle	0
cycle	P
ra_targ	210.80375
dec_targ	54.348778
ra_nom	210.88159593321
dec_nom	54.354406639513
roll_nom	9.2933677107467
revision	3
ontime	44656.110625267
livetime	44090.648063848
ontime2	33791.659779072
ontime3	34618.775778919
ontime5	44202.374021322
ontime6	34304.396473229
ontime7	44656.110625267
ontime8	35163.261491895
l2events	1000523



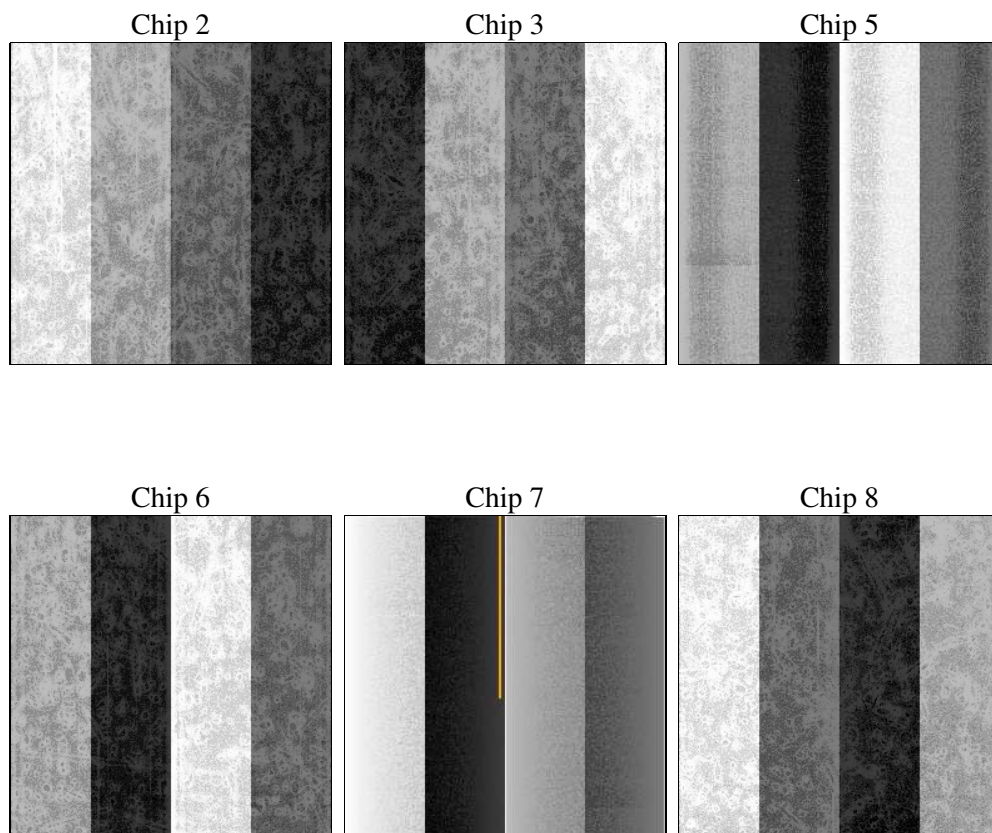
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0
ascdsver	7.6.11.10
caldsver	3.5.1
date	2009-01-14T12:26:46
revision	3

sched_exp_time	51800.000000
ontime	44656.110625267
ontime2	33791.659779072
ontime3	34618.775778919
ontime5	44202.374021322
ontime6	34304.396473229
ontime7	44656.110625267
ontime8	35163.261491895
l1events	3063013

### 2.1.4 Events

	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	363019	350625	674287	365042	579626	730414
rejected events	289649	275431	346121	285954	291210	331572
rejected %	79%	78%	51%	78%	50%	45%

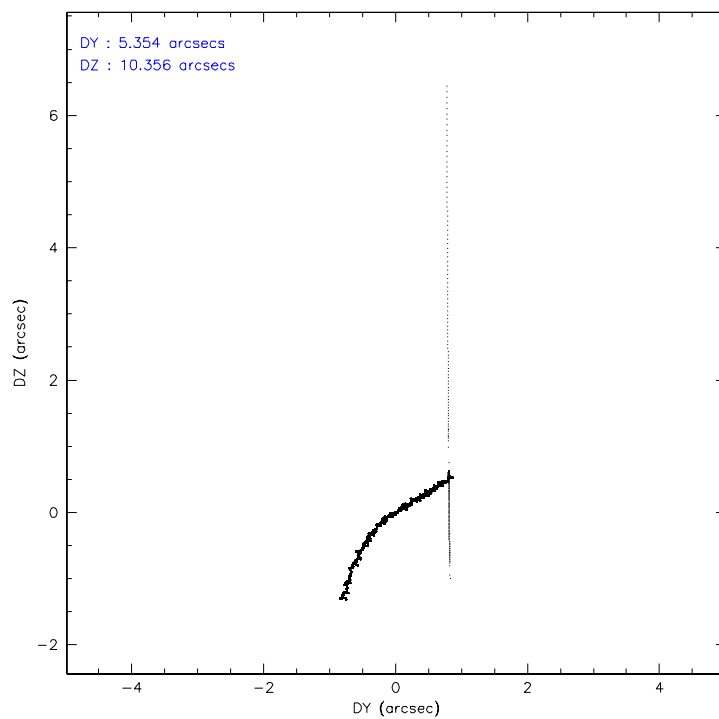
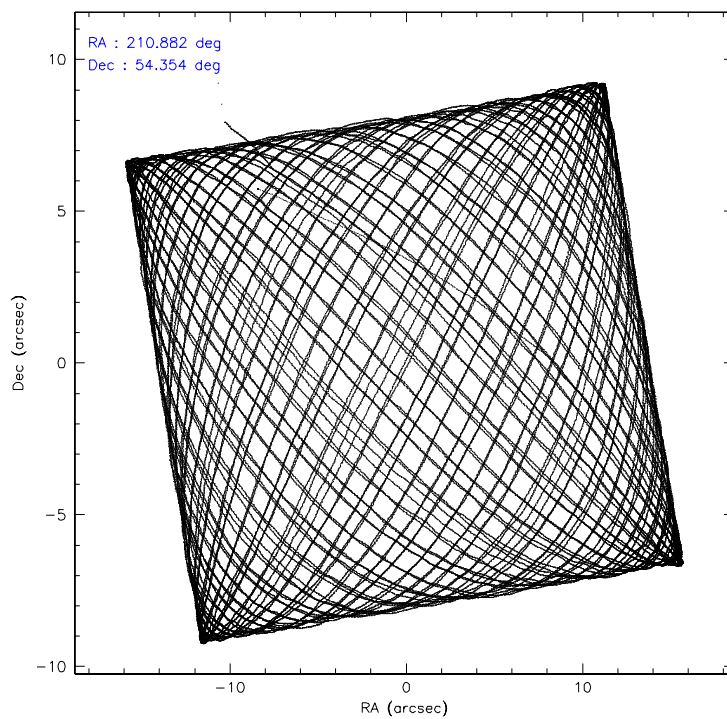
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	33626	30227	36779	33788	30129	152027
	9%	8%	5%	9%	5%	20%
grade 1 events	361	270	1723	277	898	1416
	0%	0%	0%	0%	0%	0%
grade 2 events	18199	23160	103097	24359	61990	54986
	5%	6%	15%	6%	10%	7%
grade 3 events	3350	3612	19166	3709	24731	68549
	0%	1%	2%	1%	4%	9%
grade 4 events	4783	3872	18856	3727	24978	60779
	1%	1%	2%	1%	4%	8%
grade 5 events	10620	11668	44603	12258	48301	19590
	2%	3%	6%	3%	8%	2%
grade 6 events	13417	14564	150295	13702	146623	63488
	3%	4%	22%	3%	25%	8%
grade 7 events	278663	263252	299768	273222	241976	309579
	76%	75%	44%	74%	41%	42%

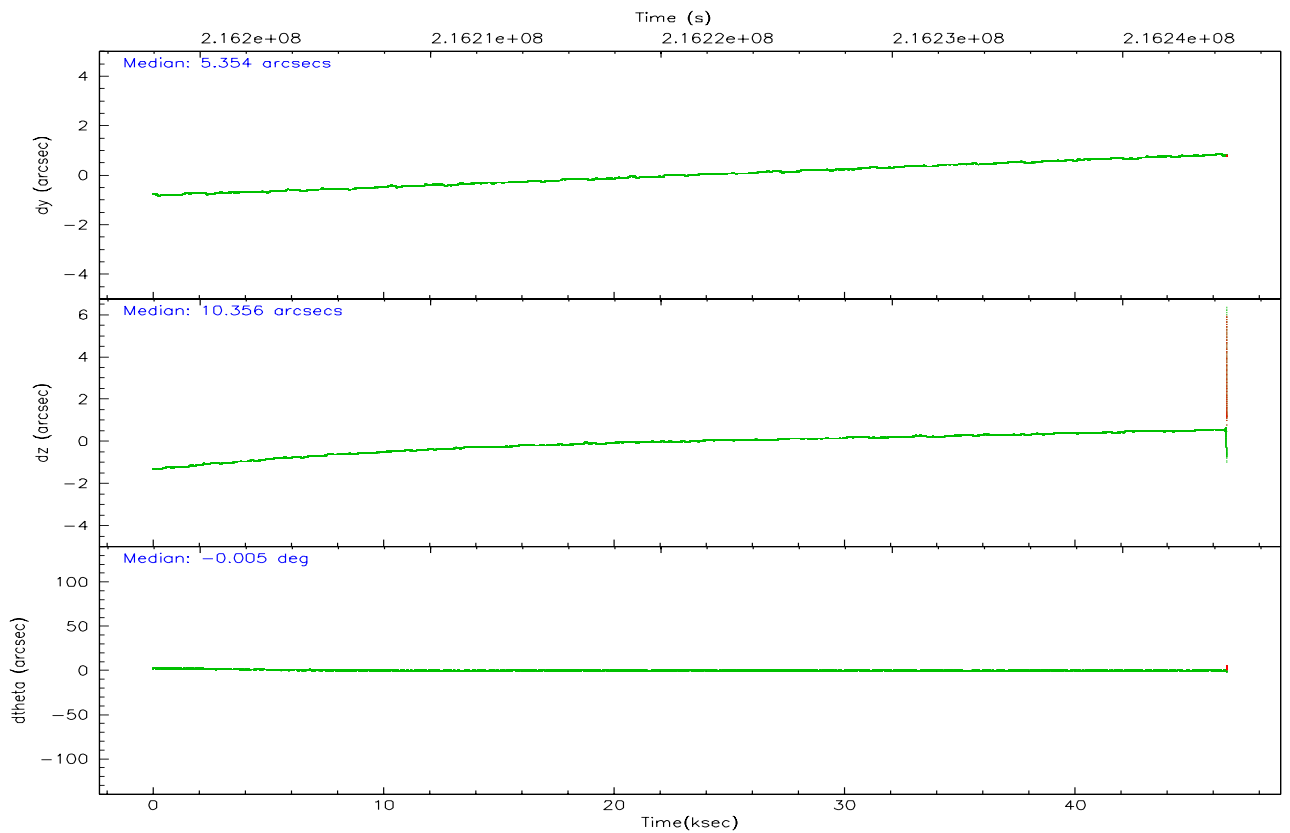
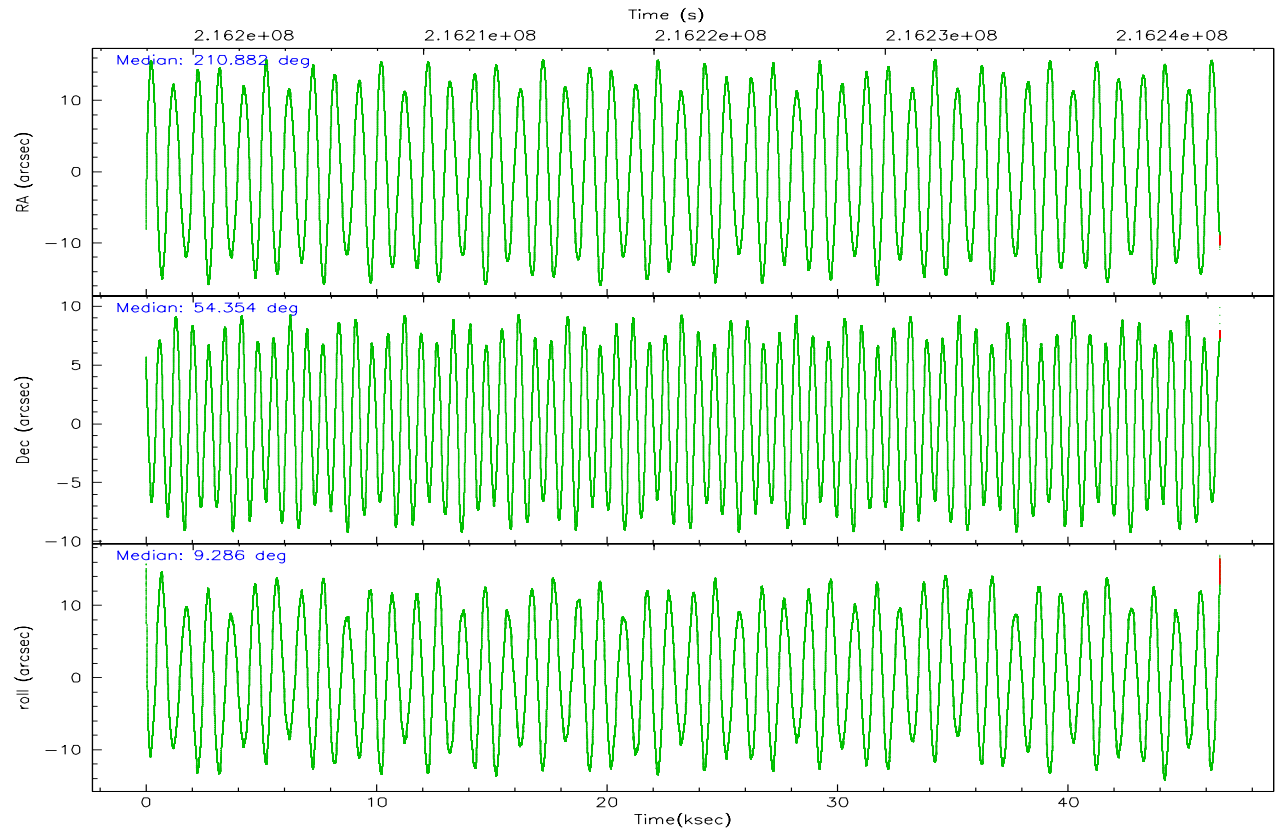


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-235678	ACIS-235678	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	210.845857	210.8815959332096	Alternating exposures requested	N	N
Pointing Dec	54.336878	54.35440663951258	Primary exposure time	0.000000	3.2
Pointing Roll	9.165783	9.29336771074669			
SIM focus pos (mm)	-0.684267	-0.6828225247311905			
SIM defocus (mm)	0	0.001444936568705701			
SIM translation stage pos (mm)	-190.132523	-190.1400660498719			
SIM translation stage offset (mm)	0	0.00754346686406393			
Observation start time	216198234.184000	216197225.69945			
Observation start date	2004-11-07T07:02:50	2004-11-07T06:47:05			
Observation end time	216250034.184000	216244567.37657			
Observation end date	2004-11-07T21:26:10	2004-11-07T19:56:07			
Read mode	TIMED	TIMED			

## 2.3 Aspect



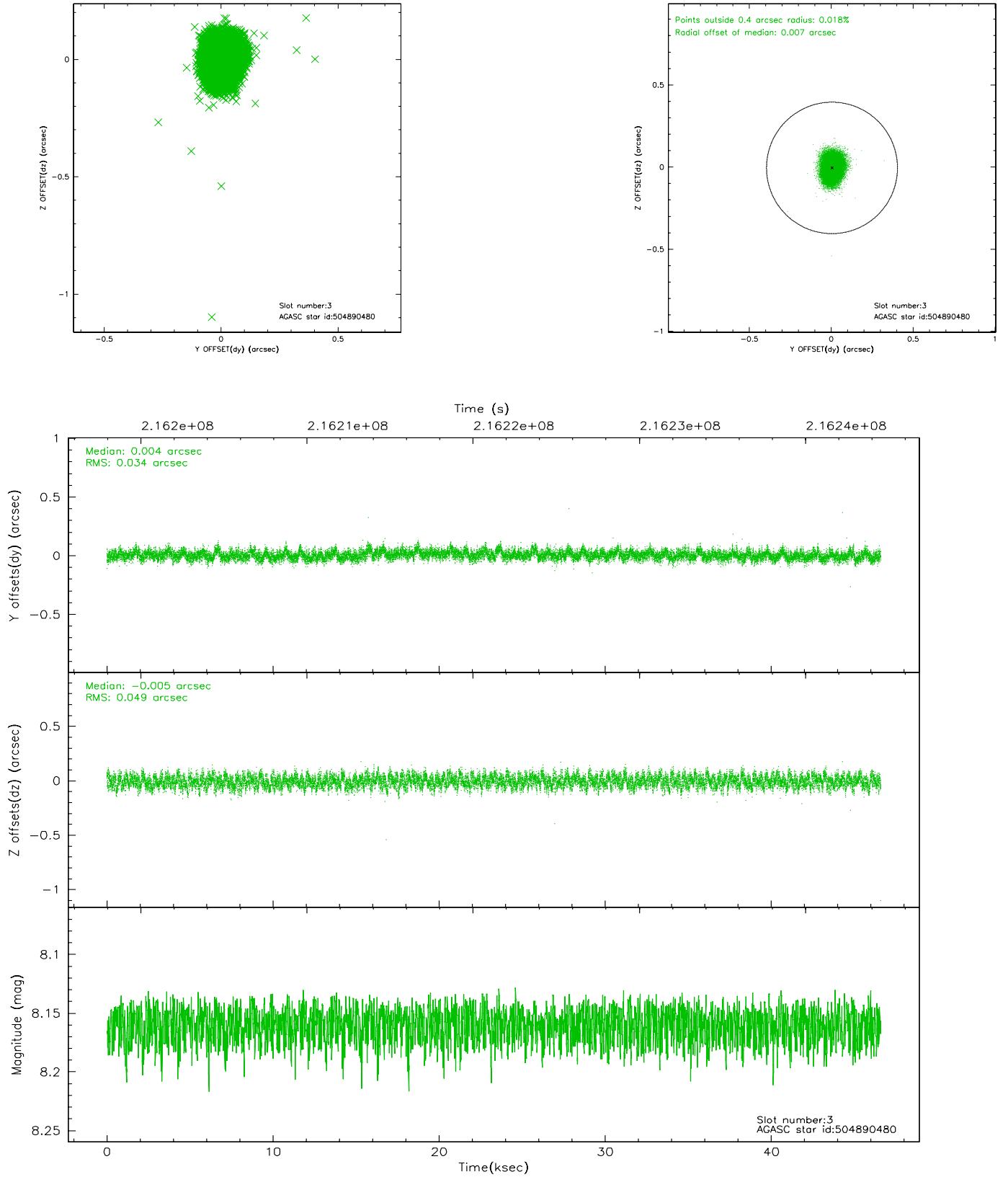


### Slot Statistics

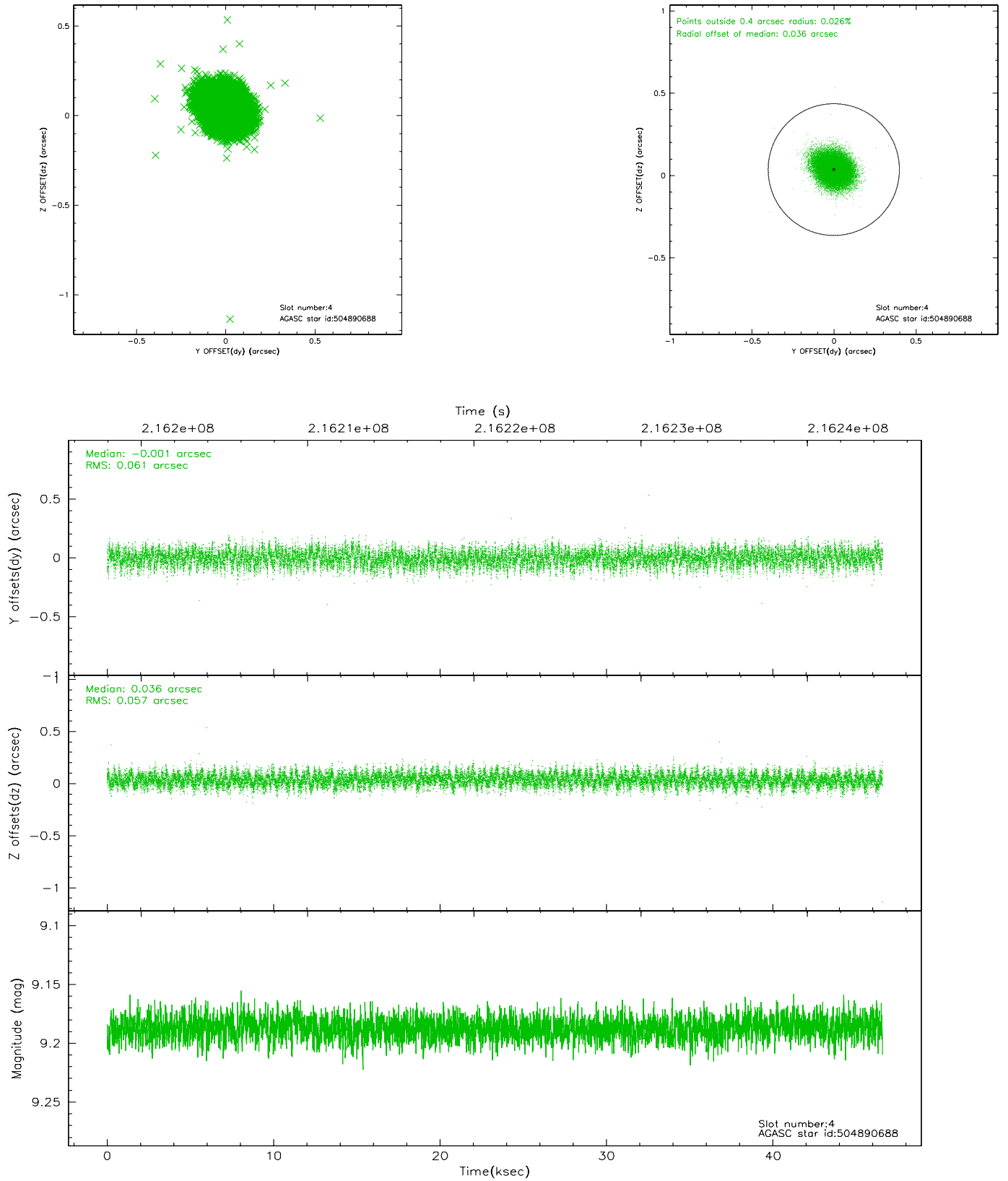
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	11355	-0.070	-0.025	0.013	0.030	0.000000	0.000000	-758.11	-1731.53
1	FID	ACIS-S-4	7.20	11355	0.106	0.041	0.017	0.032	0.000000	0.000000	2155.33	177.07
2	FID	ACIS-S-5	7.23	11352	-0.067	-0.006	0.021	0.042	0.000000	0.000000	-1810.99	170.63
3	GUIDE	504890480	8.16	22721	0.004	-0.005	0.063	0.101	210.132463	53.768436	-1823.40	-1771.26
4	GUIDE	504890688	9.19	22709	-0.001	0.036	0.088	0.141	211.697686	53.837149	1502.30	-2053.43
5	GUIDE	504891480	8.07	22715	-0.063	-0.053	0.071	0.115	210.708012	54.666096	-94.38	1216.20
6	GUIDE	504894408	9.28	22707	-0.031	-0.021	0.092	0.149	211.942794	54.047749	2126.25	-1378.48
7	GUIDE	504894856	8.98	22713	0.093	0.048	0.073	0.118	209.819510	54.132689	-2251.22	-365.32

## 2.4 Star Slots

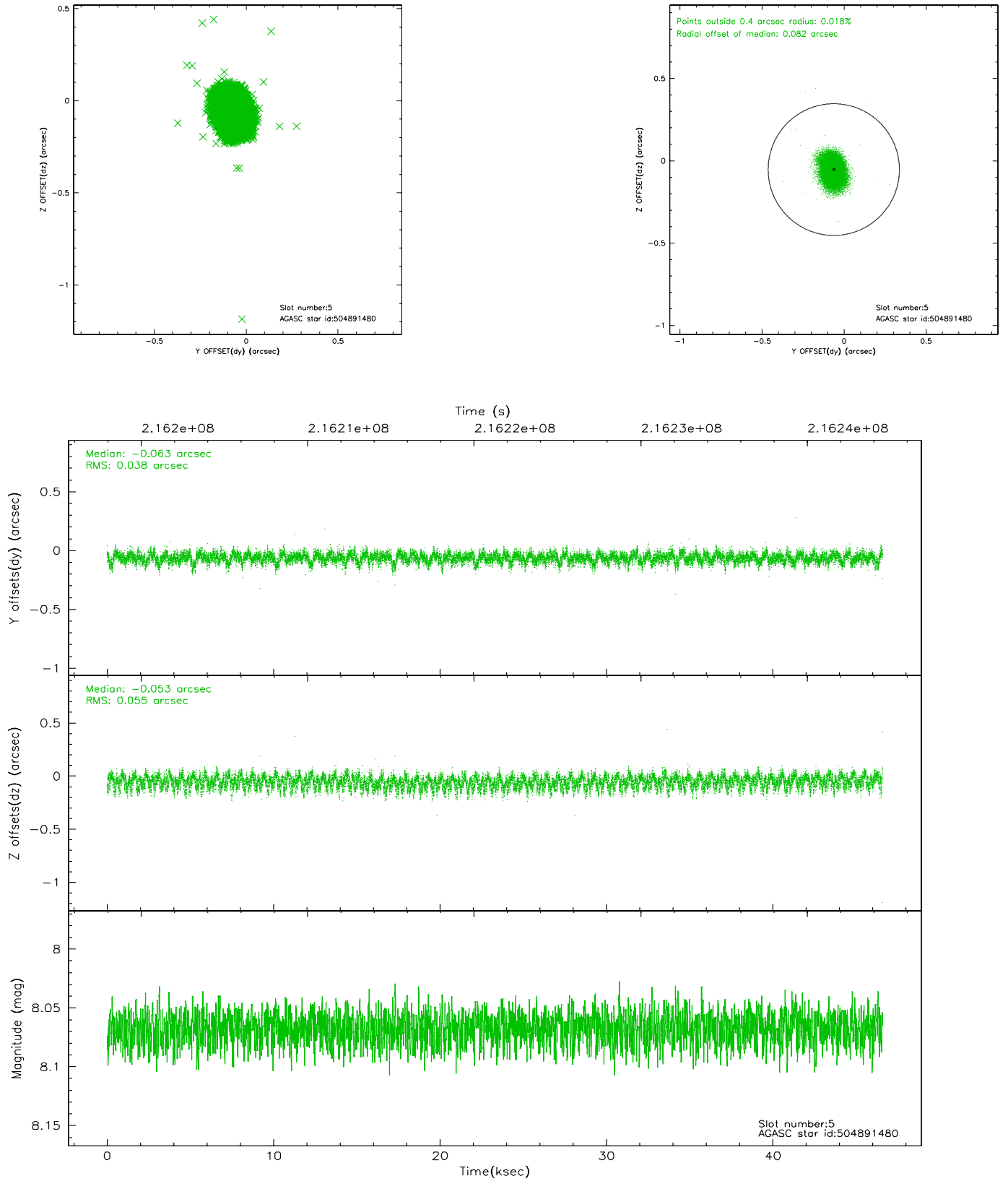
### 2.4.1 Slot 3



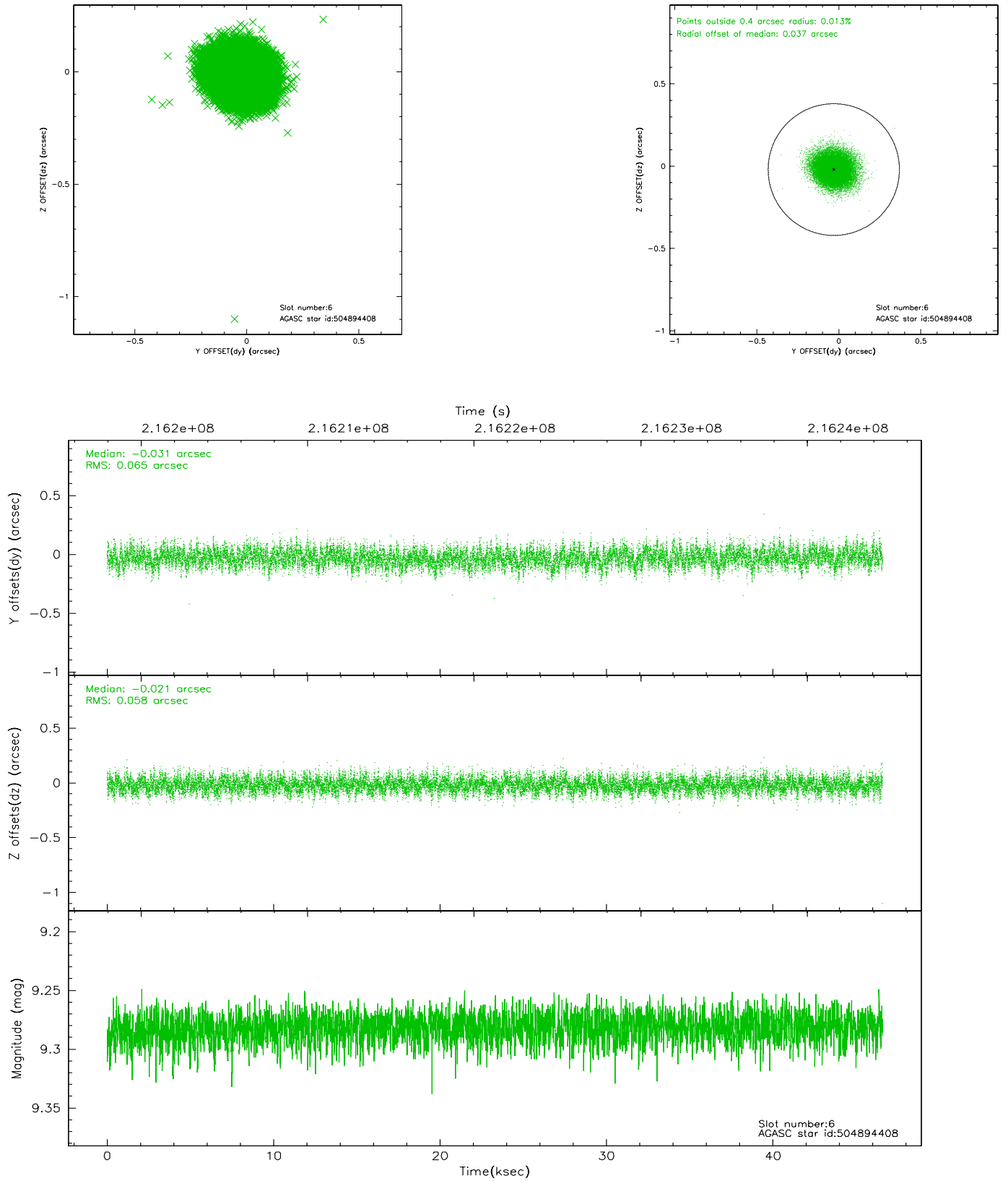
## 2.4.2 Slot 4



### 2.4.3 Slot 5

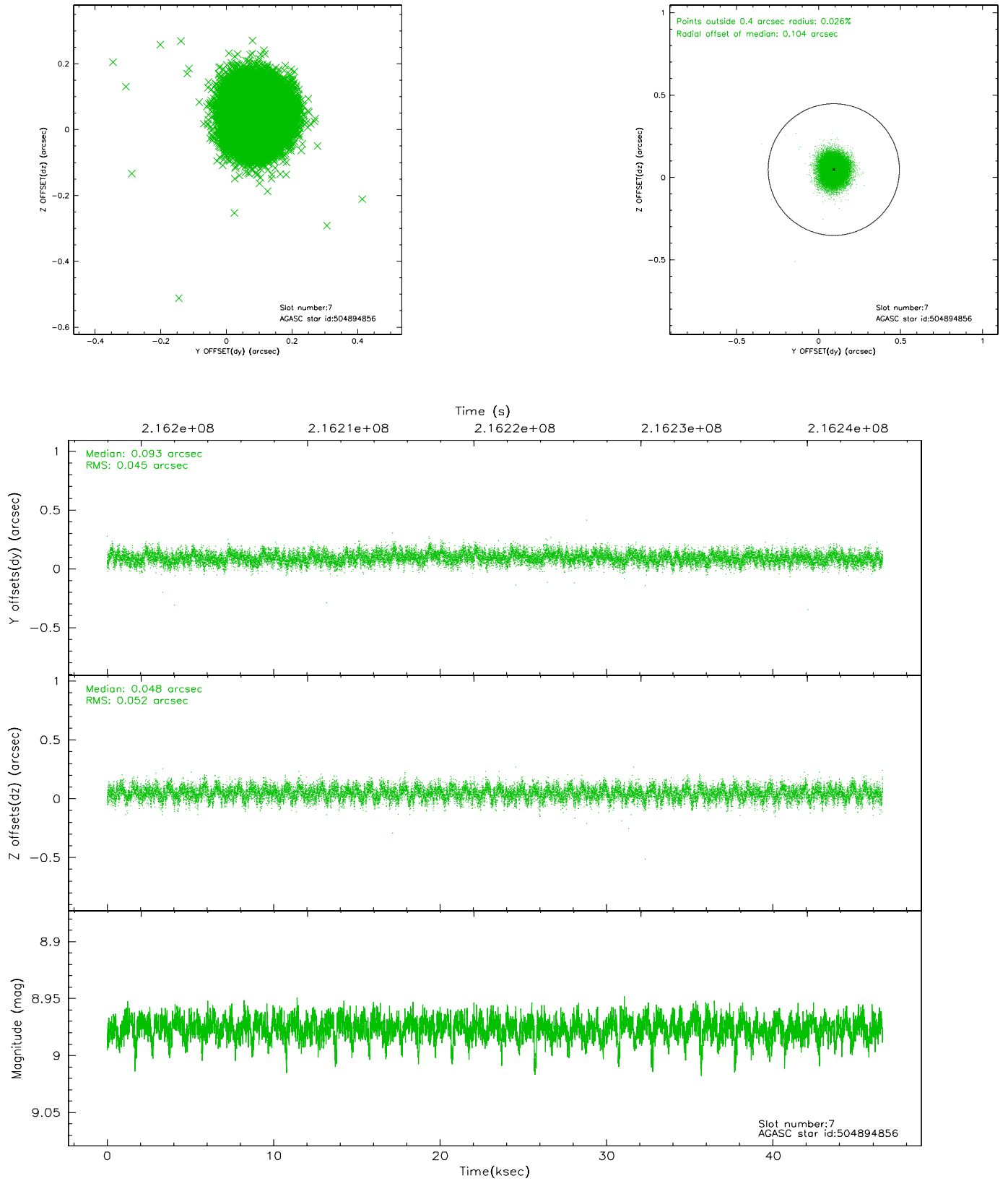


## 2.4.4 Slot 6



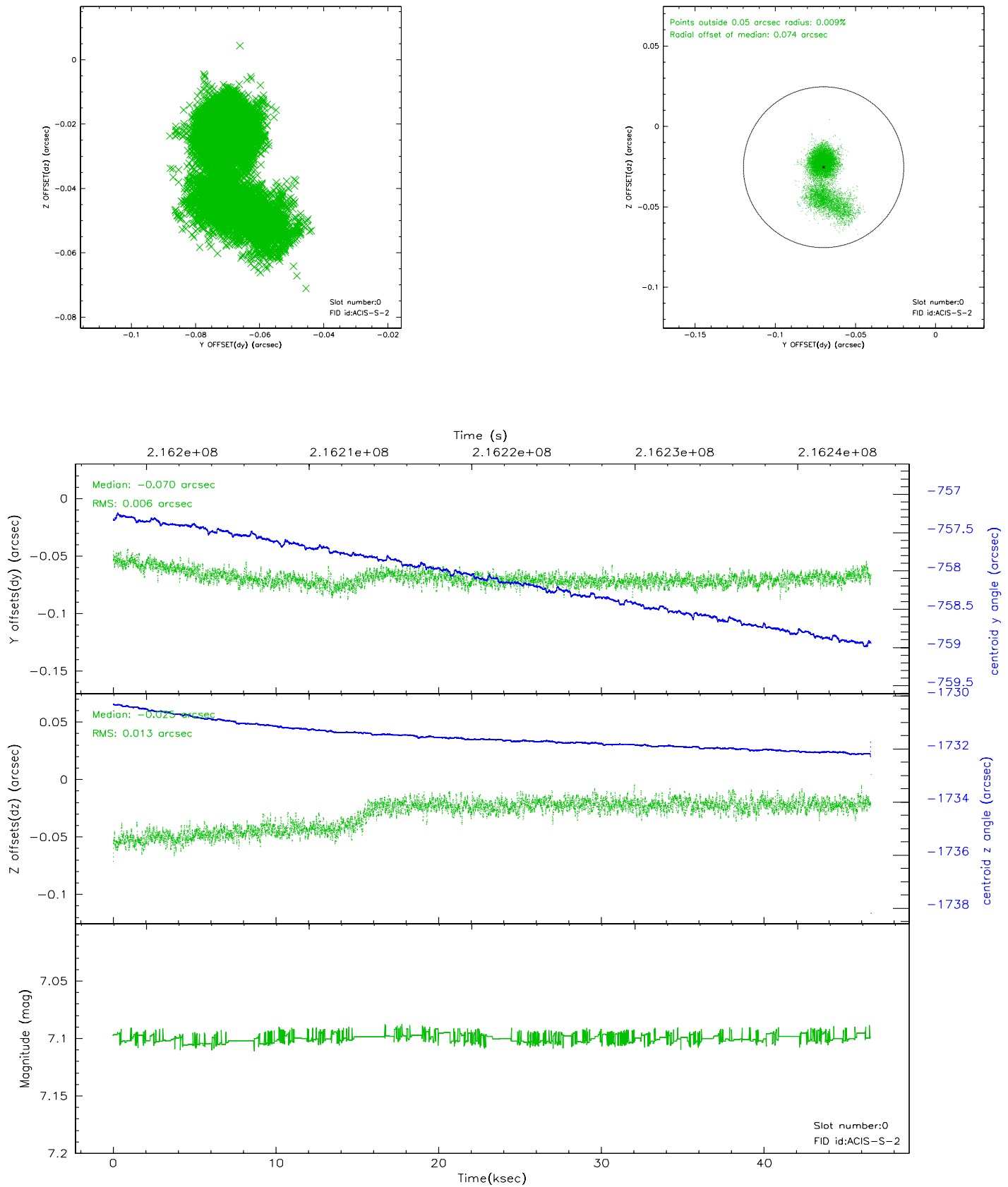


## 2.4.5 Slot 7

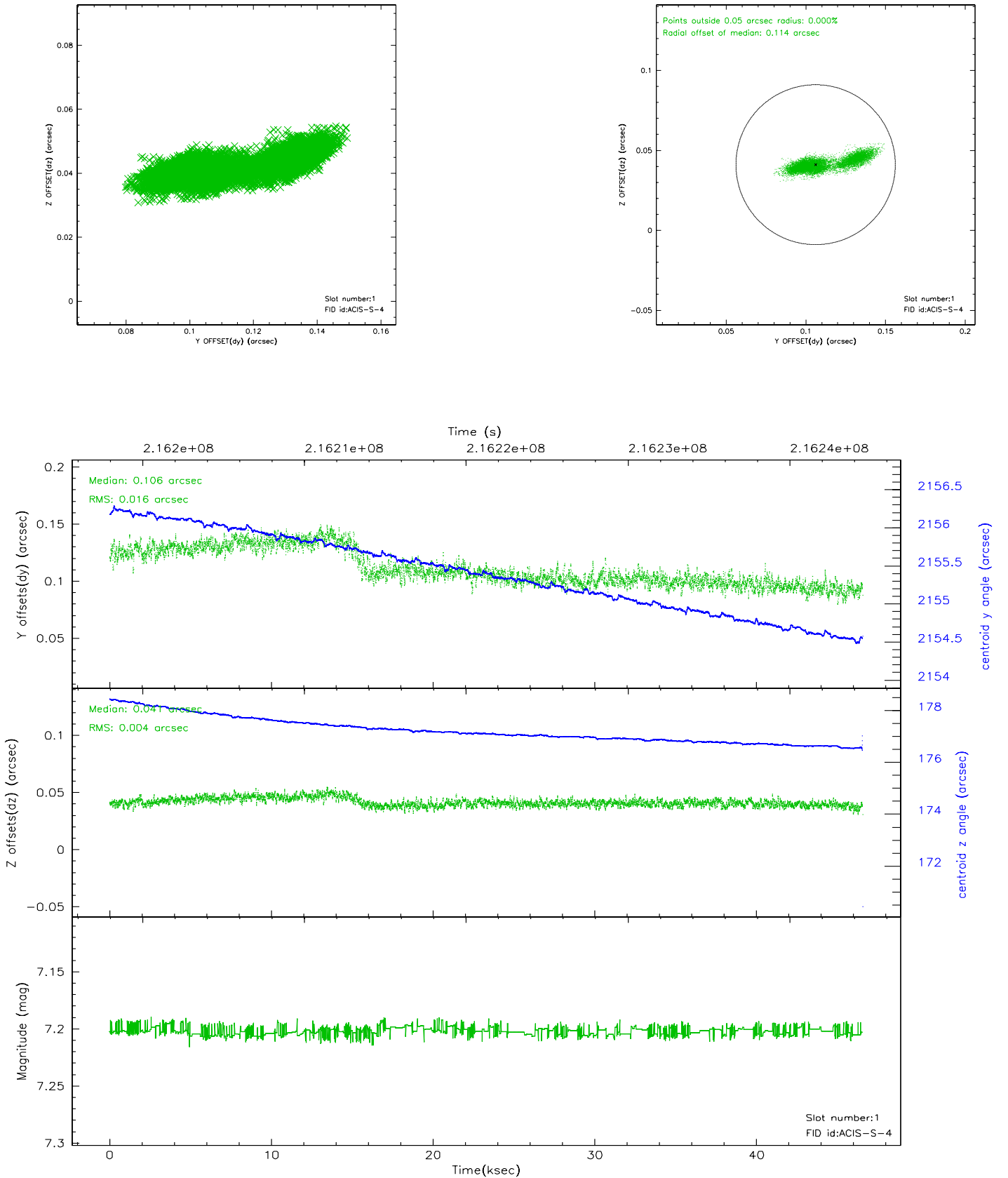


## 2.5 FID Slots

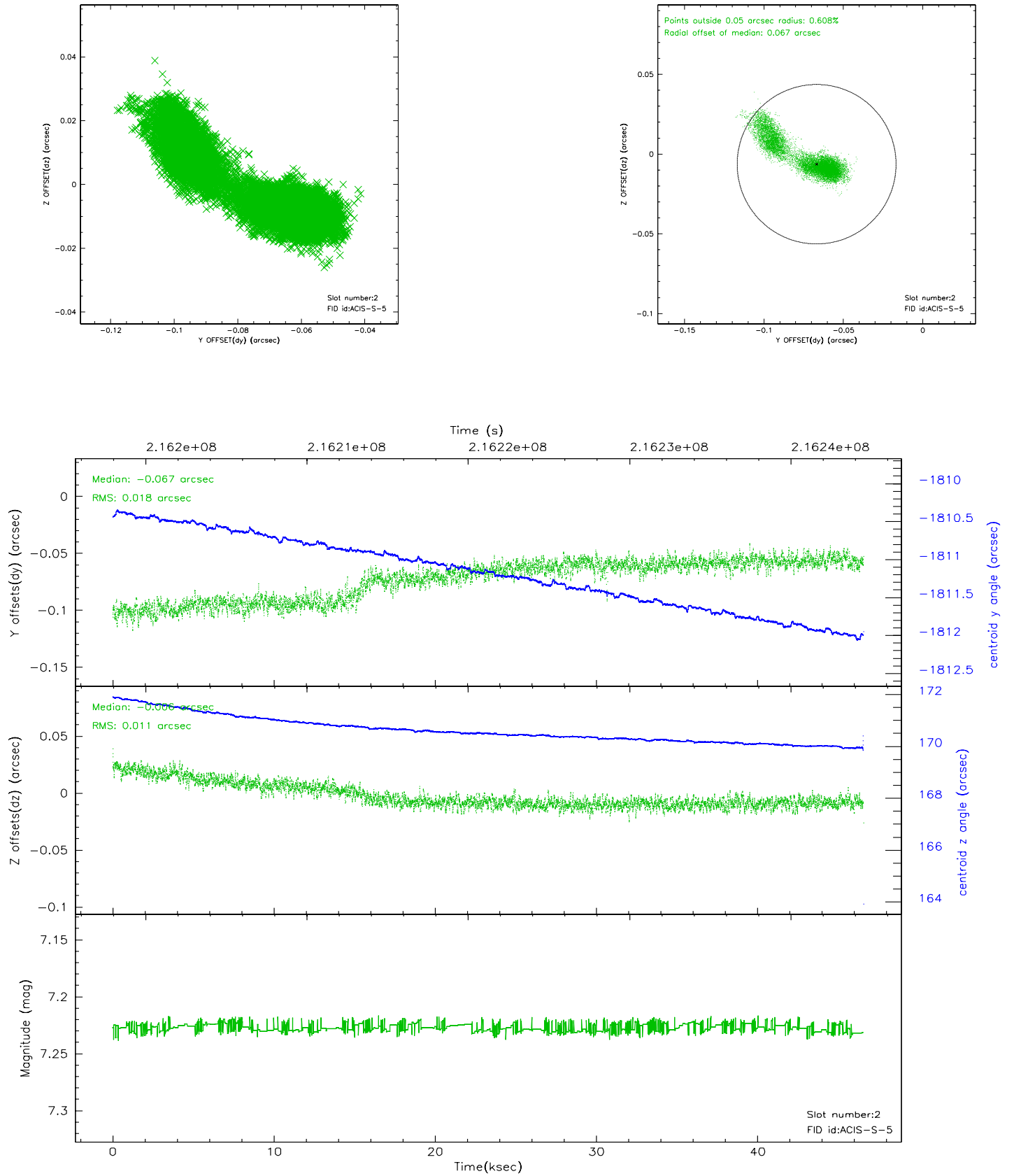
### 2.5.1 Slot 0



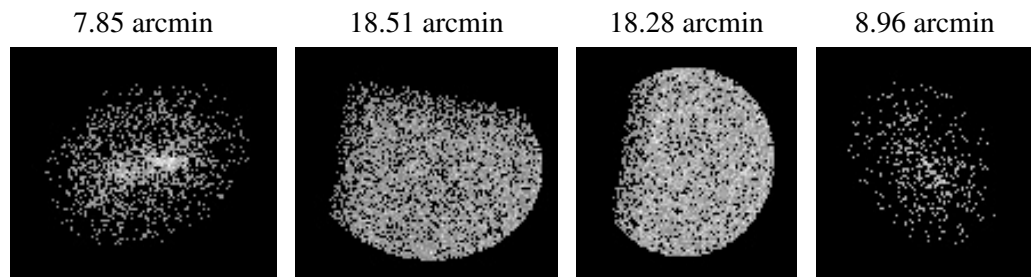
## 2.5.2 Slot 1



### 2.5.3 Slot 2



### 3 Point Sources



## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2009.01.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	44.656

### A.2 Comments

This observation was interrupted by safing of the science instruments due to high solar radiation environment. The observation was interrupted at 2004:312:19:54:46.