

# V&V Reference Report

## L2 ASCDS Version : 7.6.7.1

Observation 4633 - L2 Version 002  
Chandra X-Ray Center

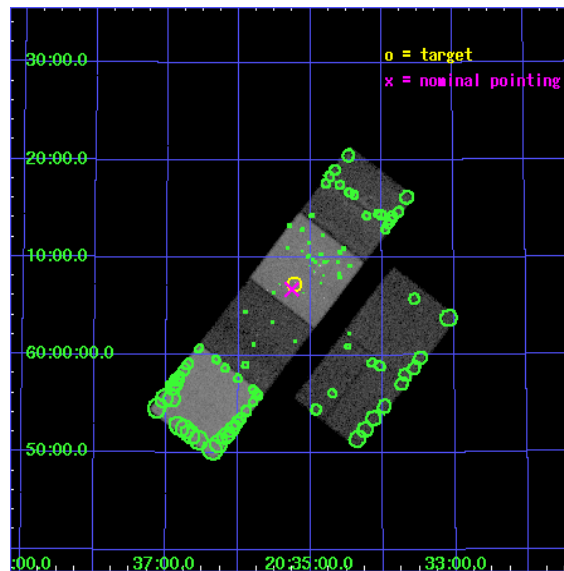
L2 Processing Date : Apr 8 2006

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# 1 Front

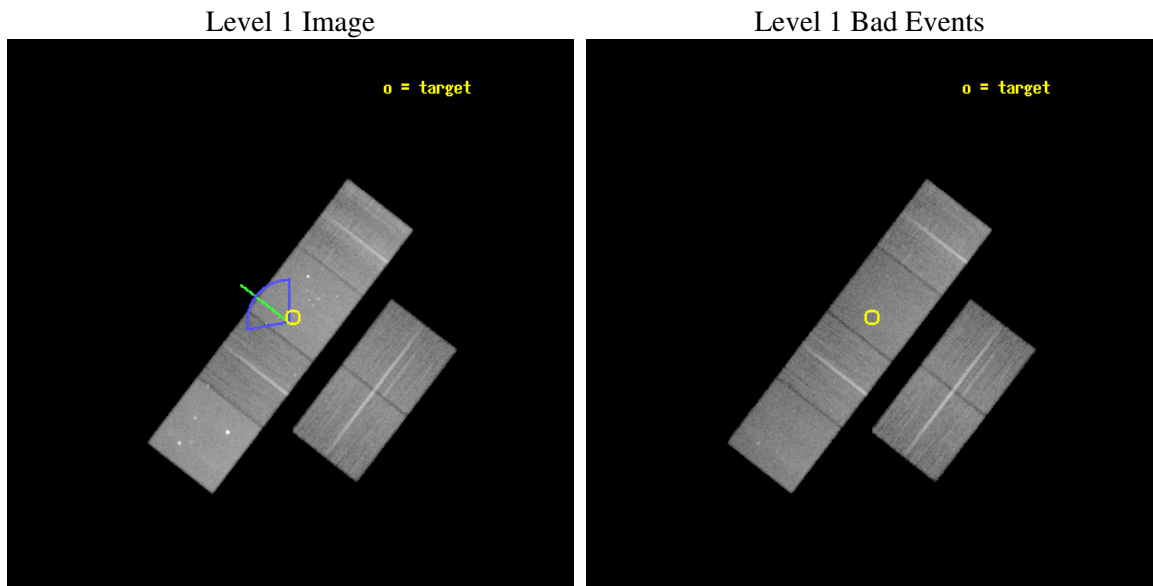
seq_num	500458
obs_id	4633
title	Prompt Chandra Observations of Nearby Supernovae
observer	Prof. Walter Lewin
object	SN 2004et
dtcycle	0
cycle	P
ra_targ	308.805833
dec_targ	60.121556
ra_nom	308.81477151463
dec_nom	60.113005909641
roll_nom	307.58189197672
revision	2
ontime	26956.799899578
livetime	26615.456667813
ontime2	26956.799899578
ontime3	26956.799899578
ontime5	26956.799899578
ontime6	26956.799899578
ontime7	26956.799899578
ontime8	26956.799899578
l2events	340807



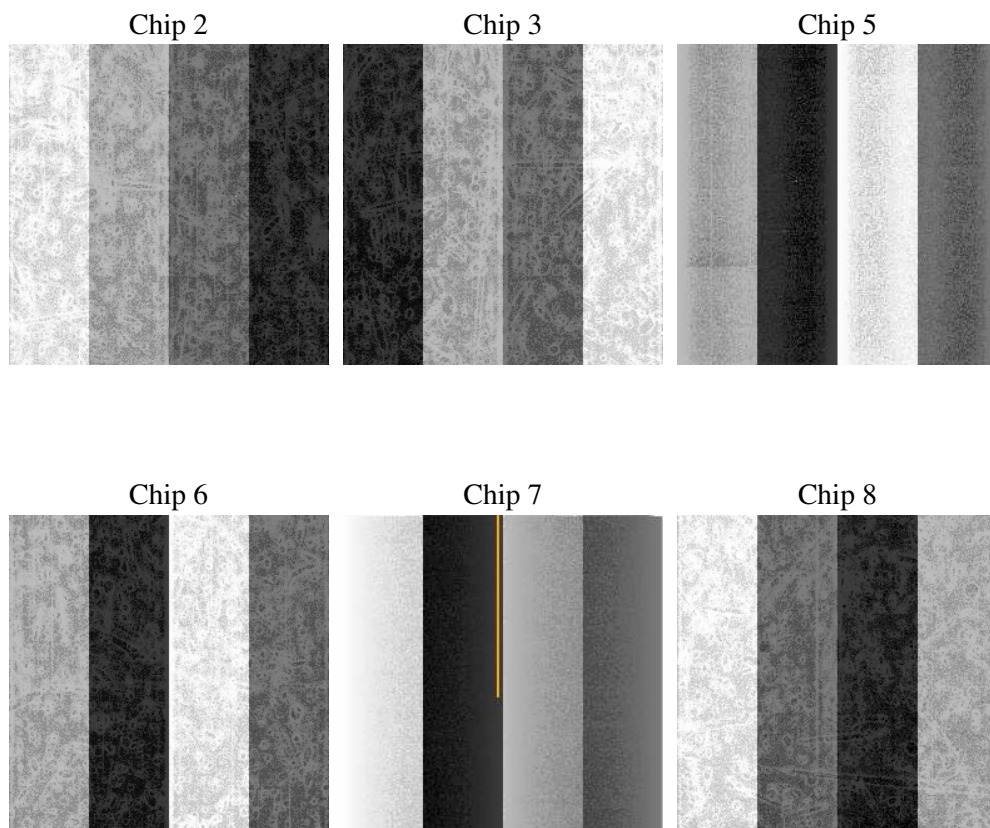
## 2 OBI

### 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	2006-04-08T13:05:12
revision	2

sched_exp_time	27000.000000
ontime	26961.912372619
ontime2	26961.912342727
ontime3	26961.912342727
ontime5	26961.912342727
ontime6	26961.912342727
ontime7	26961.912372619
ontime8	26961.912342727
l1events	1544954

### 2.1.4 Events

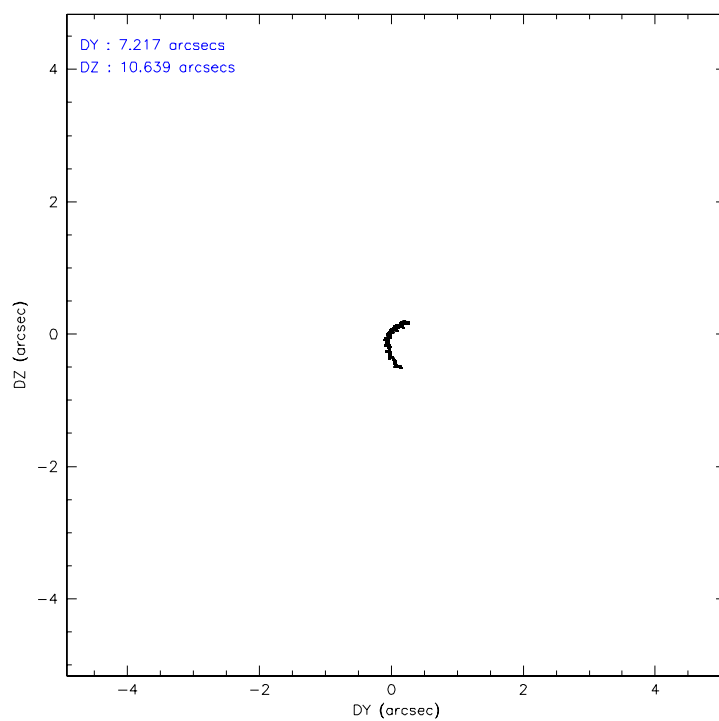
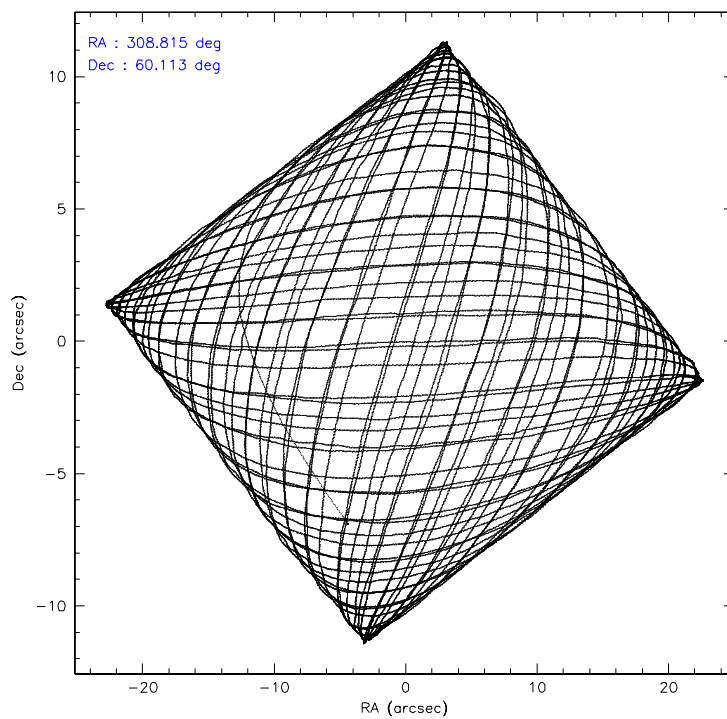
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	222135	209284	320644	217861	294796	280234
rejected events	196564	184760	176029	192301	175565	212905
rejected %	88%	88%	54%	88%	59%	75%

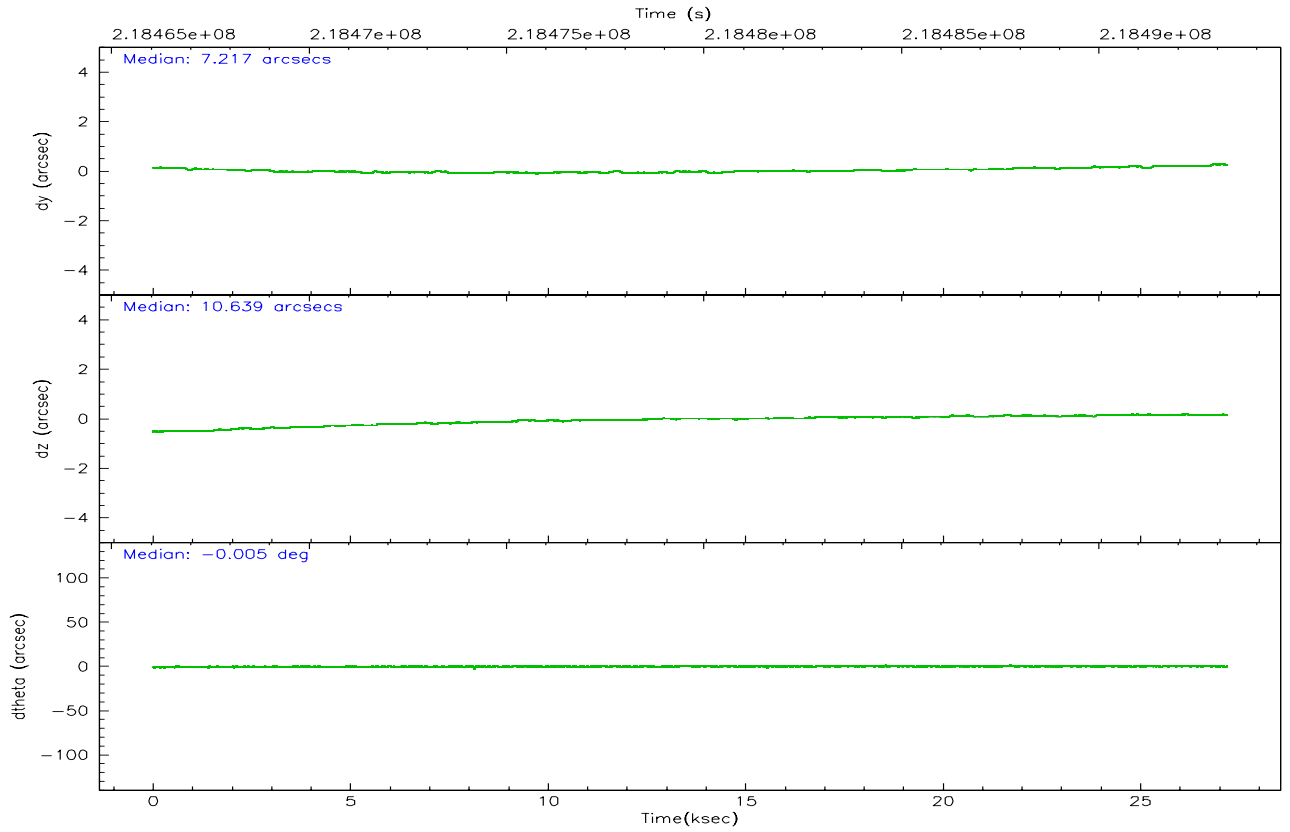
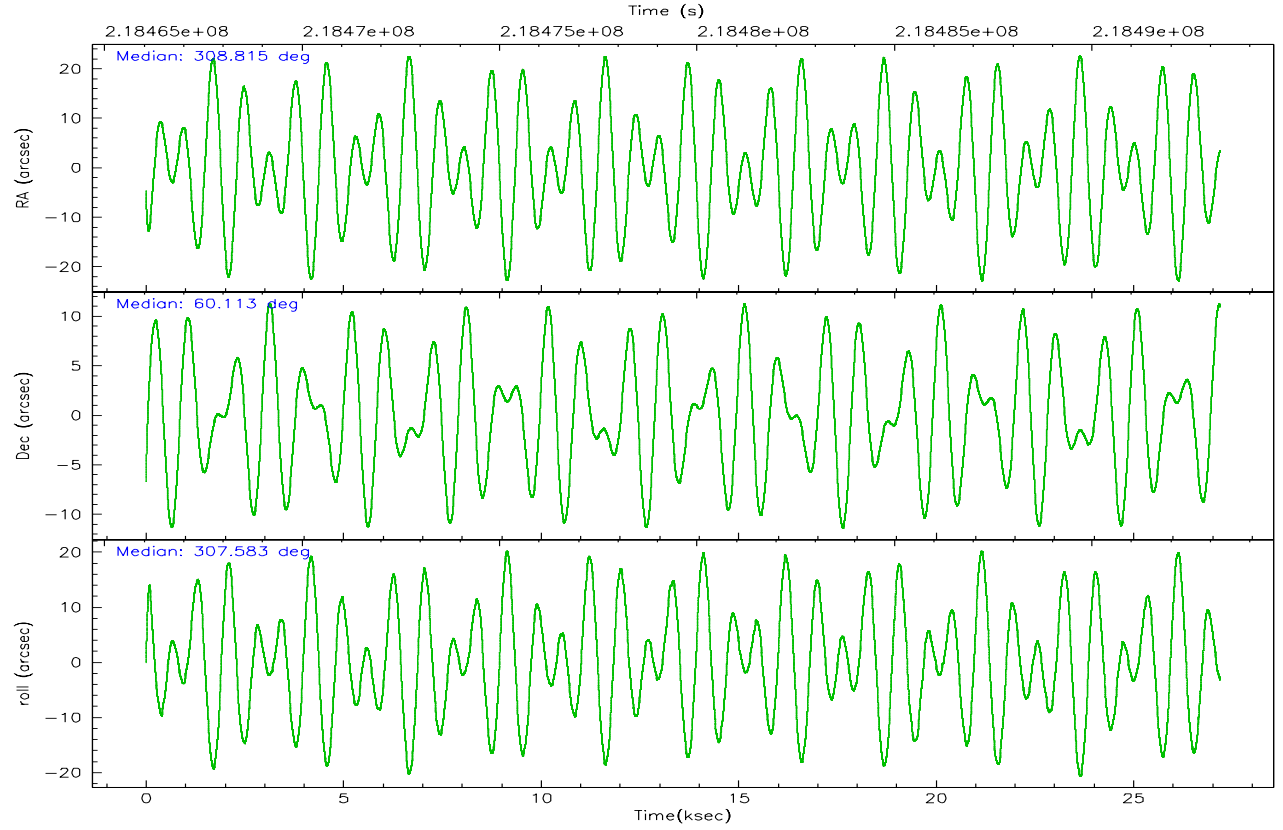
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	11140	10727	15438	10200	9046	20861
	5%	5%	4%	4%	3%	7%
grade 1 events	140	152	657	100	188	199
	0%	0%	0%	0%	0%	0%
grade 2 events	5401	4793	43942	5436	30081	14355
	2%	2%	13%	2%	10%	5%
grade 3 events	2326	2330	2958	2517	6612	7605
	1%	1%	0%	1%	2%	2%
grade 4 events	2364	2412	2966	2350	6394	6904
	1%	1%	0%	1%	2%	2%
grade 5 events	8367	9407	15083	9666	18935	12884
	3%	4%	4%	4%	6%	4%
grade 6 events	4342	4264	79323	5060	67105	17610
	1%	2%	24%	2%	22%	6%
grade 7 events	188055	175199	160277	182532	156435	199816
	84%	83%	49%	83%	53%	71%

## 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	FAINT	FAINT	On-chip summing requested	N	N
Observation mode	POINTING	POINTING	Subarray requested	NONE	NONE
Pointing RA	308.763987	308.8147715146257	Alternating exposures requested	N	N
Pointing Dec	60.123000	60.11300590964142	Primary exposure time	0.000000	3.2
Pointing Roll	307.469299	307.5818919767234			
Roll angle	310.000000	310.000000			
Roll tolerance	50.000000	50.000000			
Roll constraint allows 180D rotation	N	N			
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	218466240.184000	218465264.31378			
Observation start date	2004-12-03T13:02:56	2004-12-03T12:47:44			
Observation end time	218493240.184000	218494696.1651			
Observation end date	2004-12-03T20:32:56	2004-12-03T20:58:16			
Read mode	TIMED	TIMED			

## 2.3 Aspect





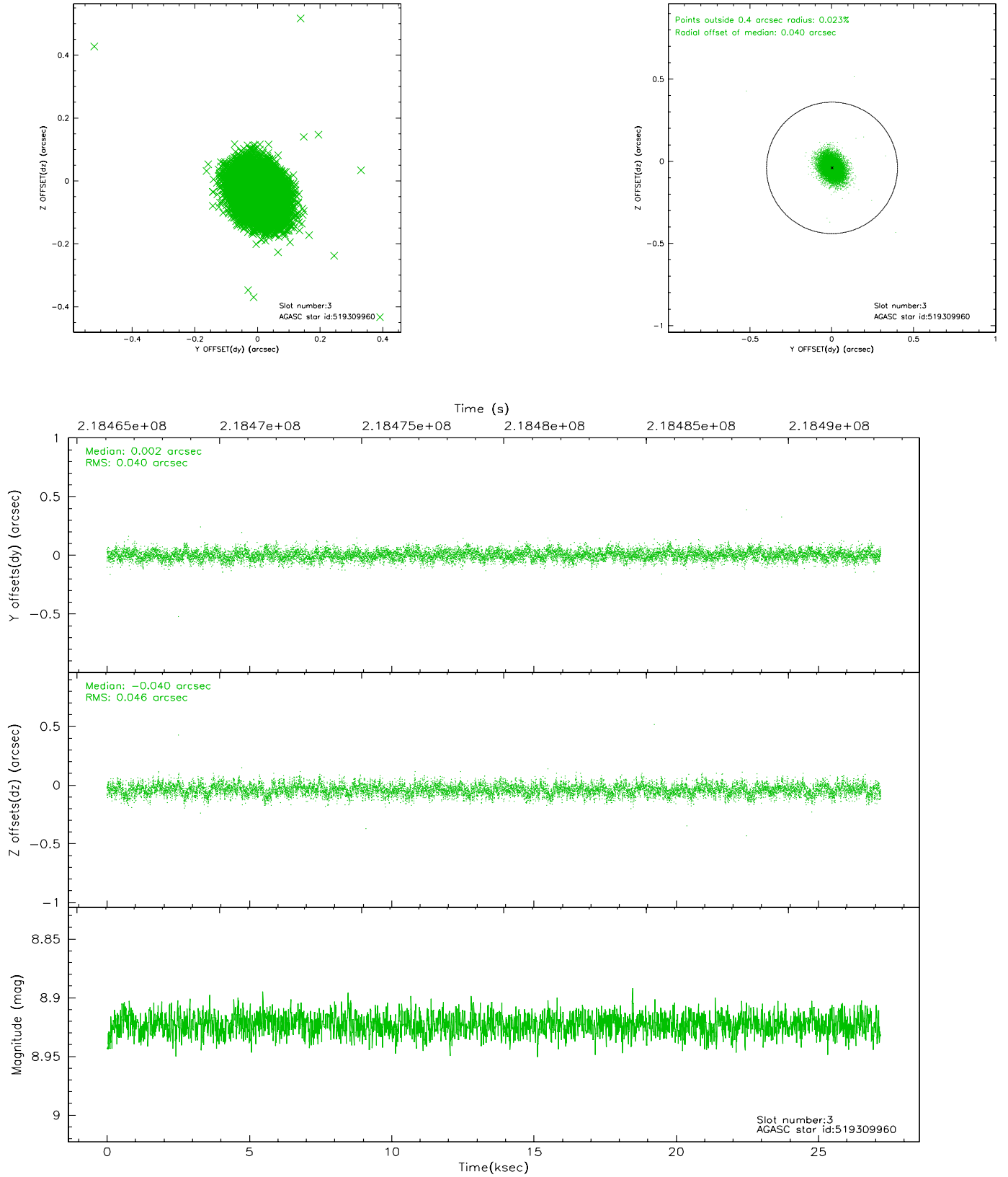
### Slot Statistics

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	6634	-0.043	0.003	0.007	0.012	0.000000	0.000000	-760.01	-1731.85
1	FID	ACIS-S-4	7.20	6634	0.060	0.020	0.005	0.009	0.000000	0.000000	2153.28	176.61
2	FID	ACIS-S-5	7.23	6634	-0.048	-0.014	0.007	0.012	0.000000	0.000000	-1812.78	170.27
3	GUIDE	519309960	8.92	13264	0.002	-0.040	0.063	0.105	308.931528	59.810942	1076.41	-442.35
4	GUIDE	519311352	8.74	13263	0.202	0.059	0.062	0.102	309.050952	59.661888	1634.92	-594.83
5	GUIDE	519319616	9.12	13263	-0.056	-0.001	0.109	0.167	308.290973	59.595846	980.16	-1836.51
6	GUIDE	554838576	9.32	13259	-0.054	-0.078	0.082	0.133	307.625324	60.310495	-1784.10	-1190.15
7	GUIDE	554839376	7.42	13268	-0.095	0.064	0.063	0.100	308.018563	60.422364	-1666.40	-391.19

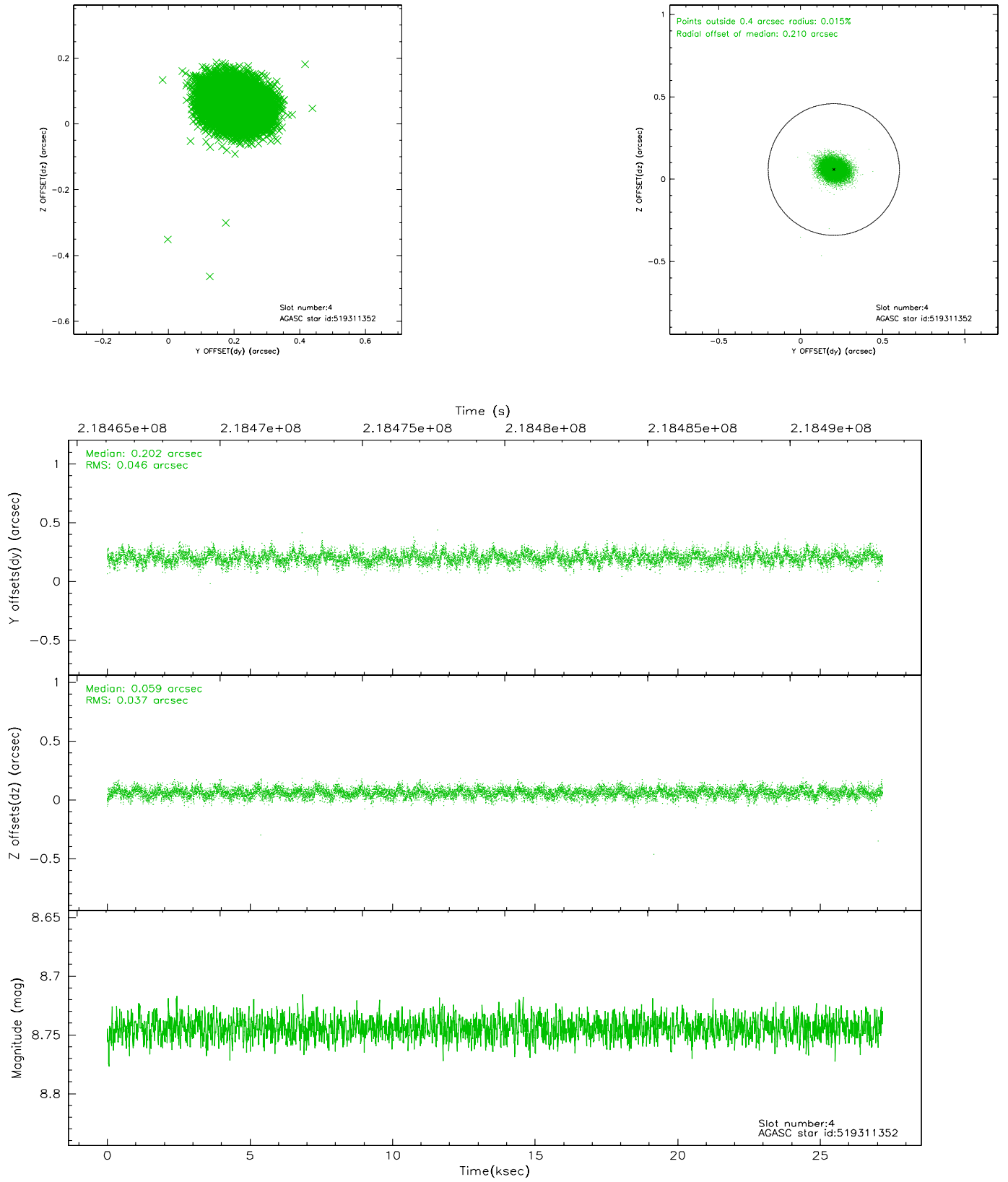


## 2.4 Star Slots

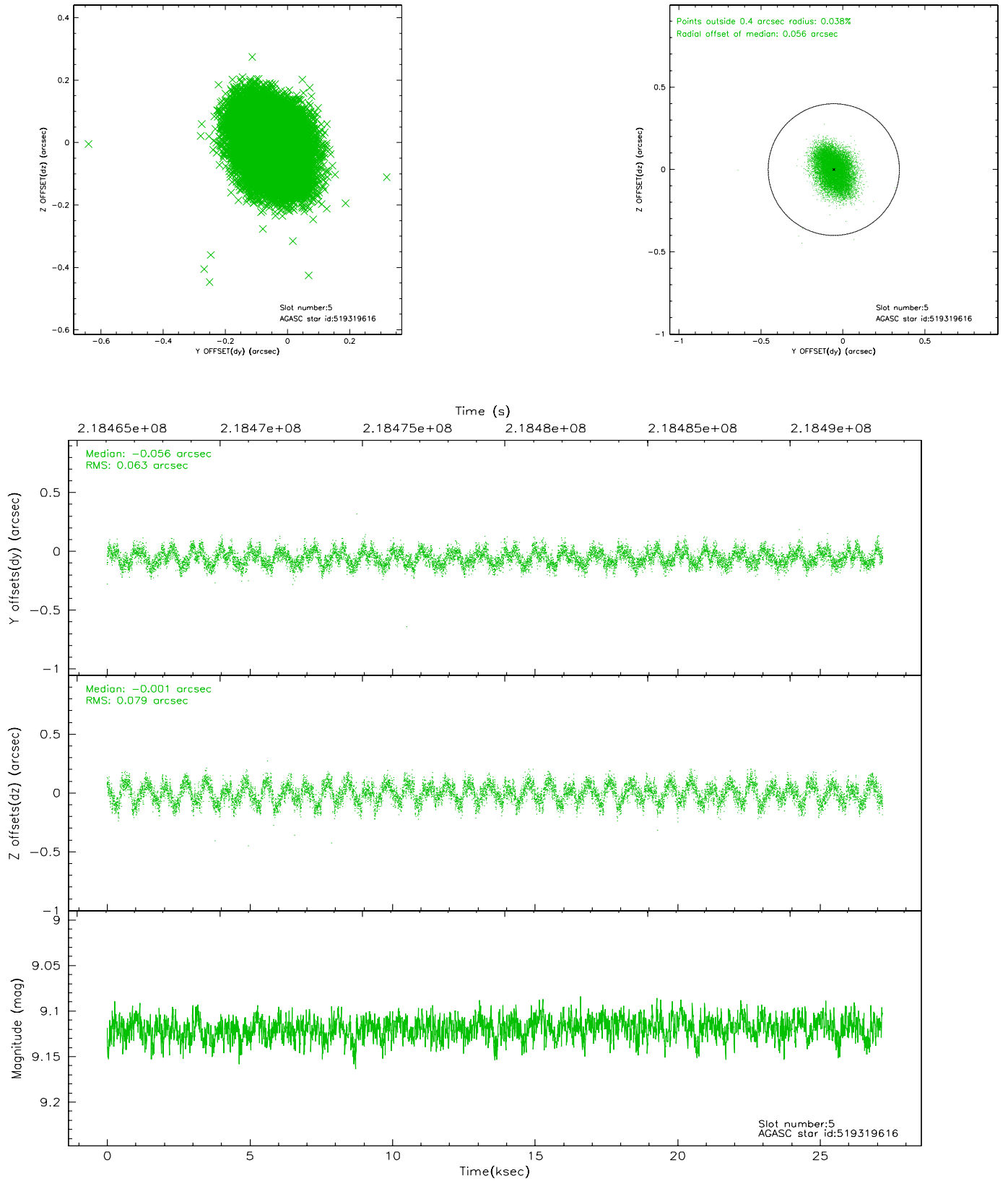
### 2.4.1 Slot 3



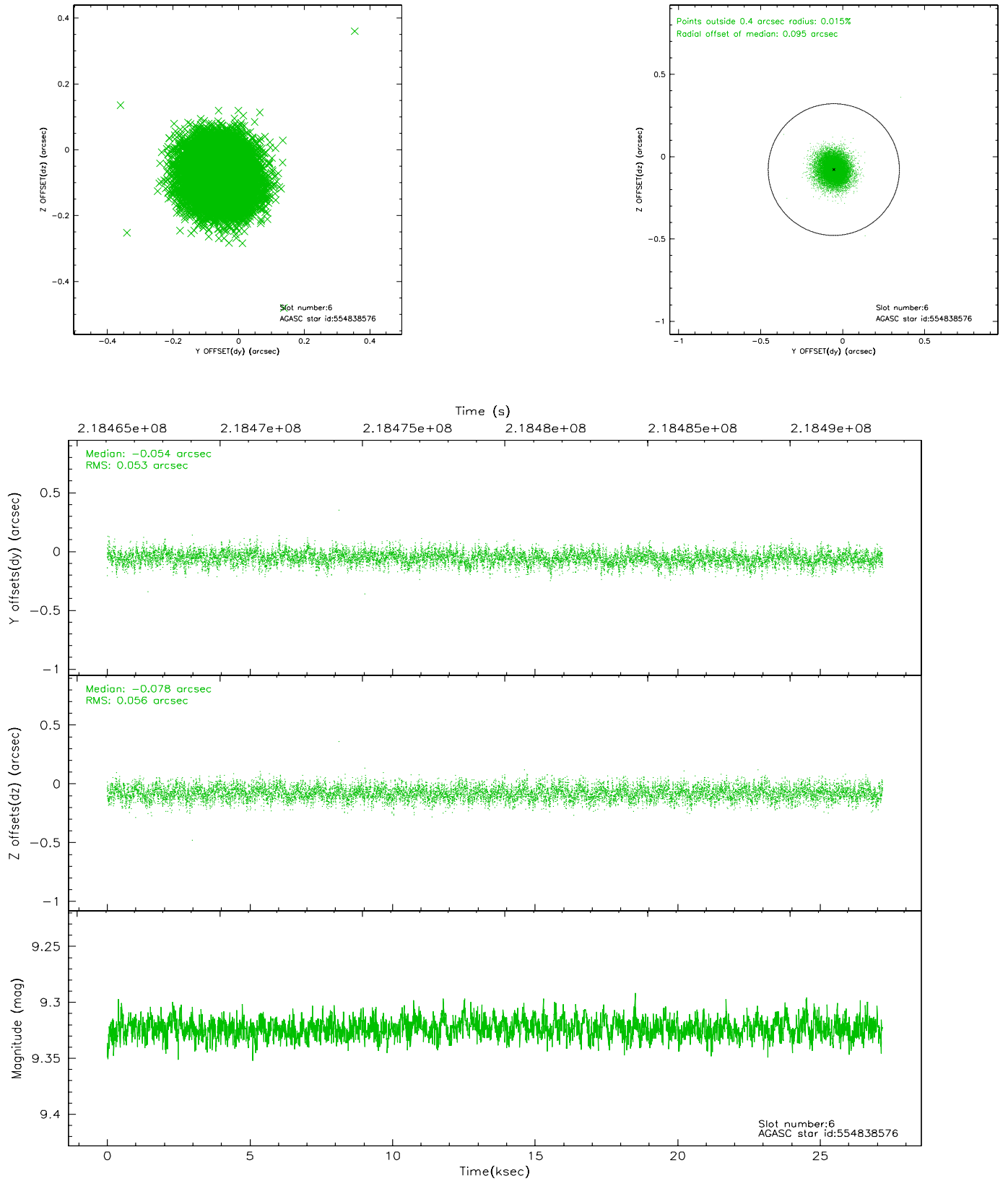
## 2.4.2 Slot 4



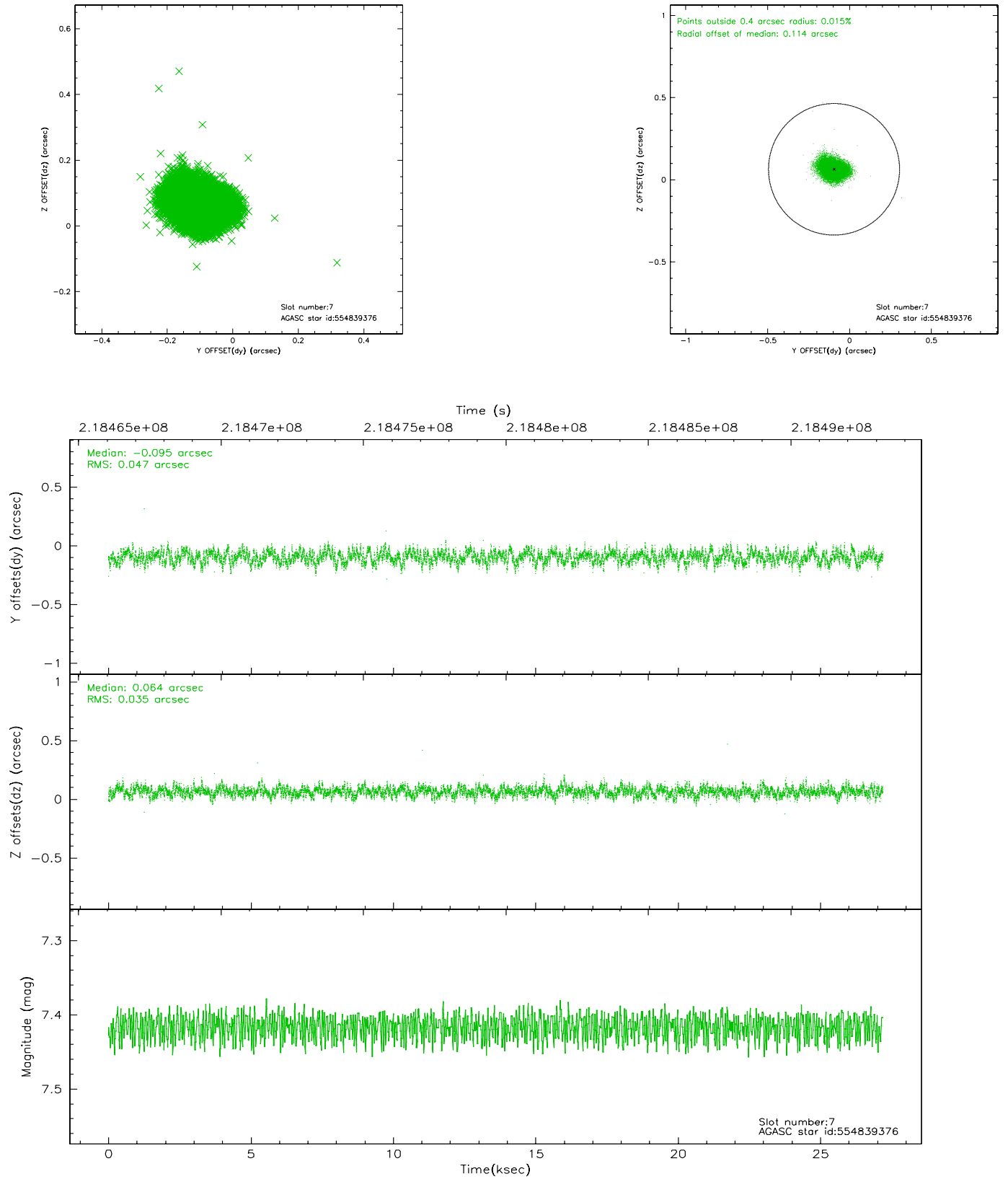
### 2.4.3 Slot 5



## 2.4.4 Slot 6

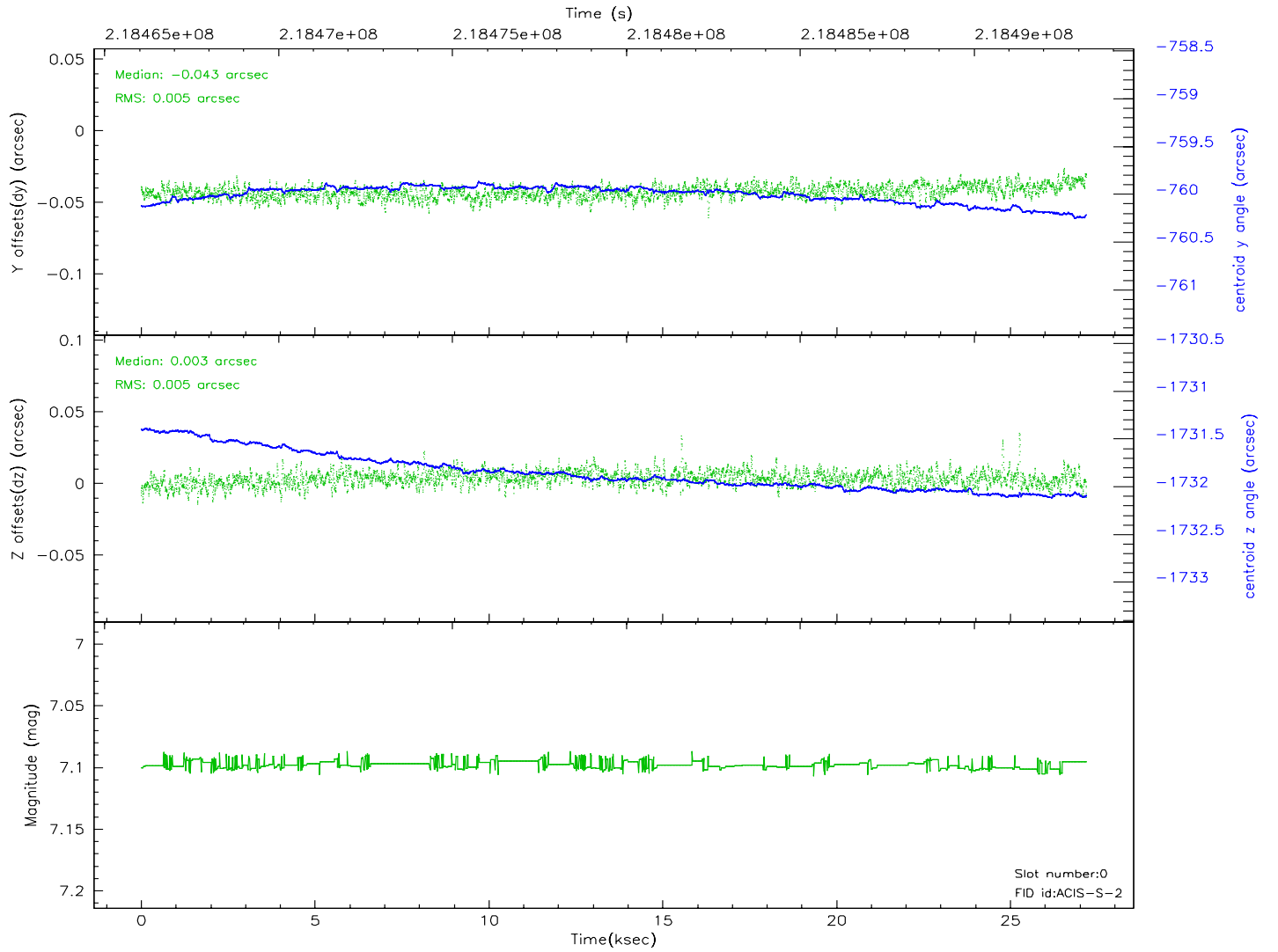
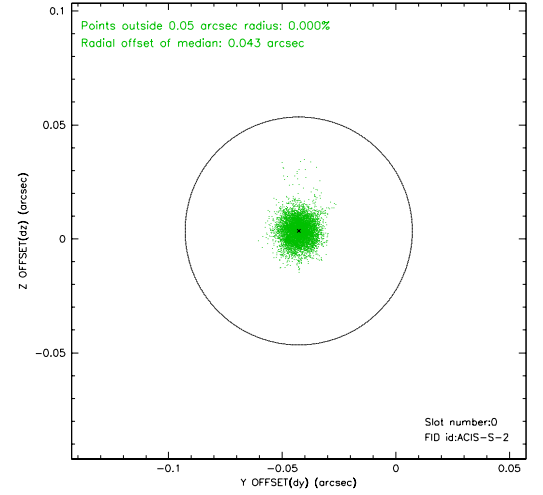
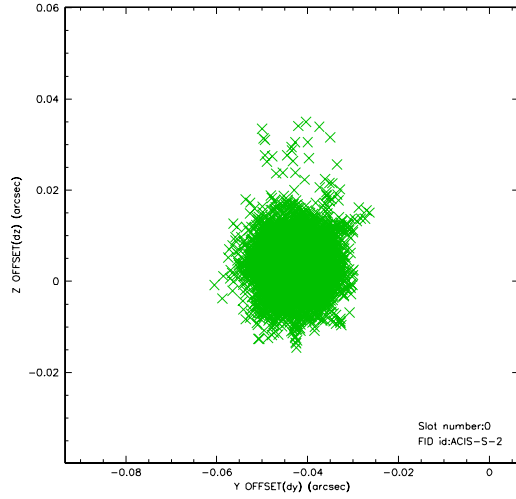


## 2.4.5 Slot 7

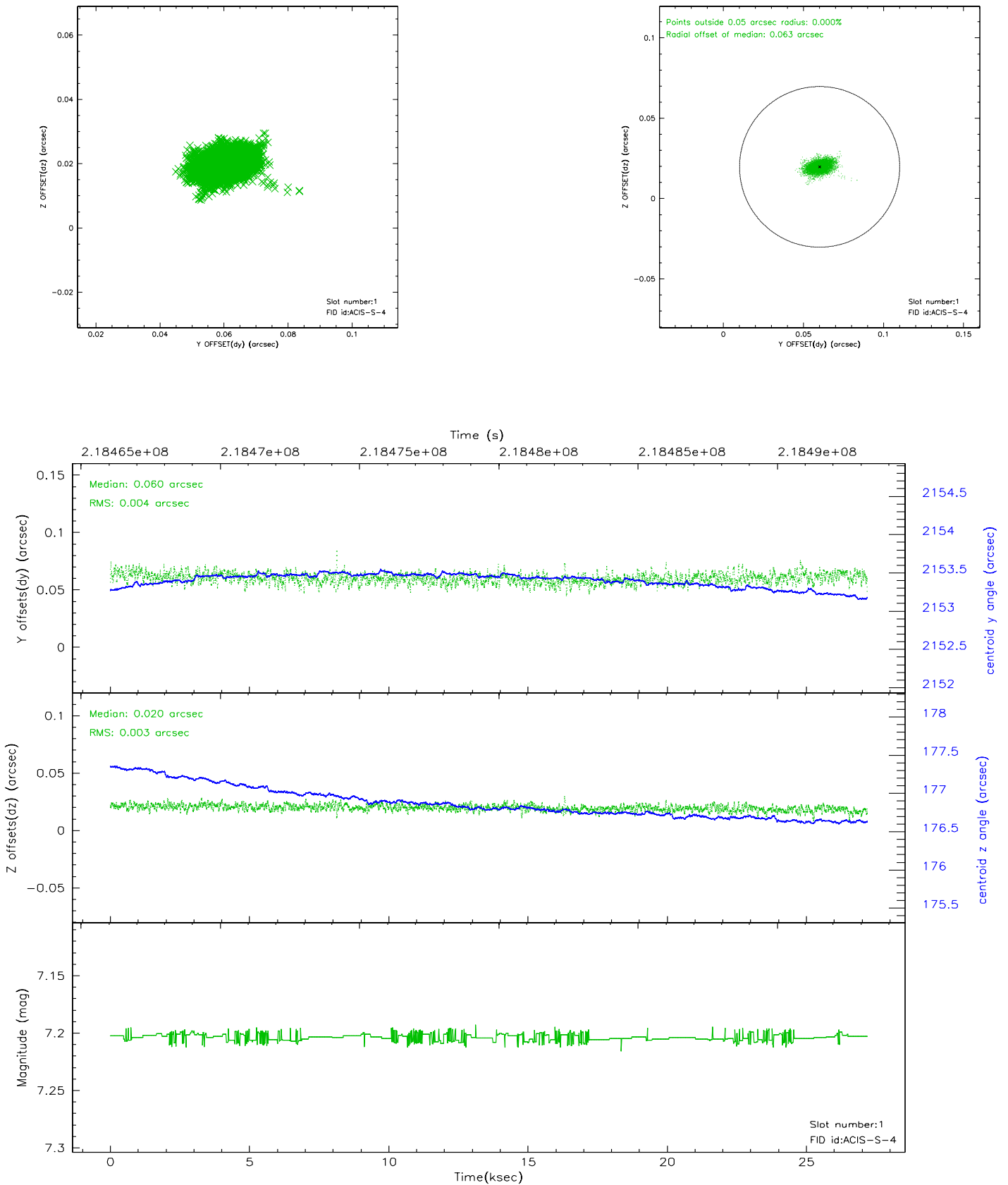


## 2.5 FID Slots

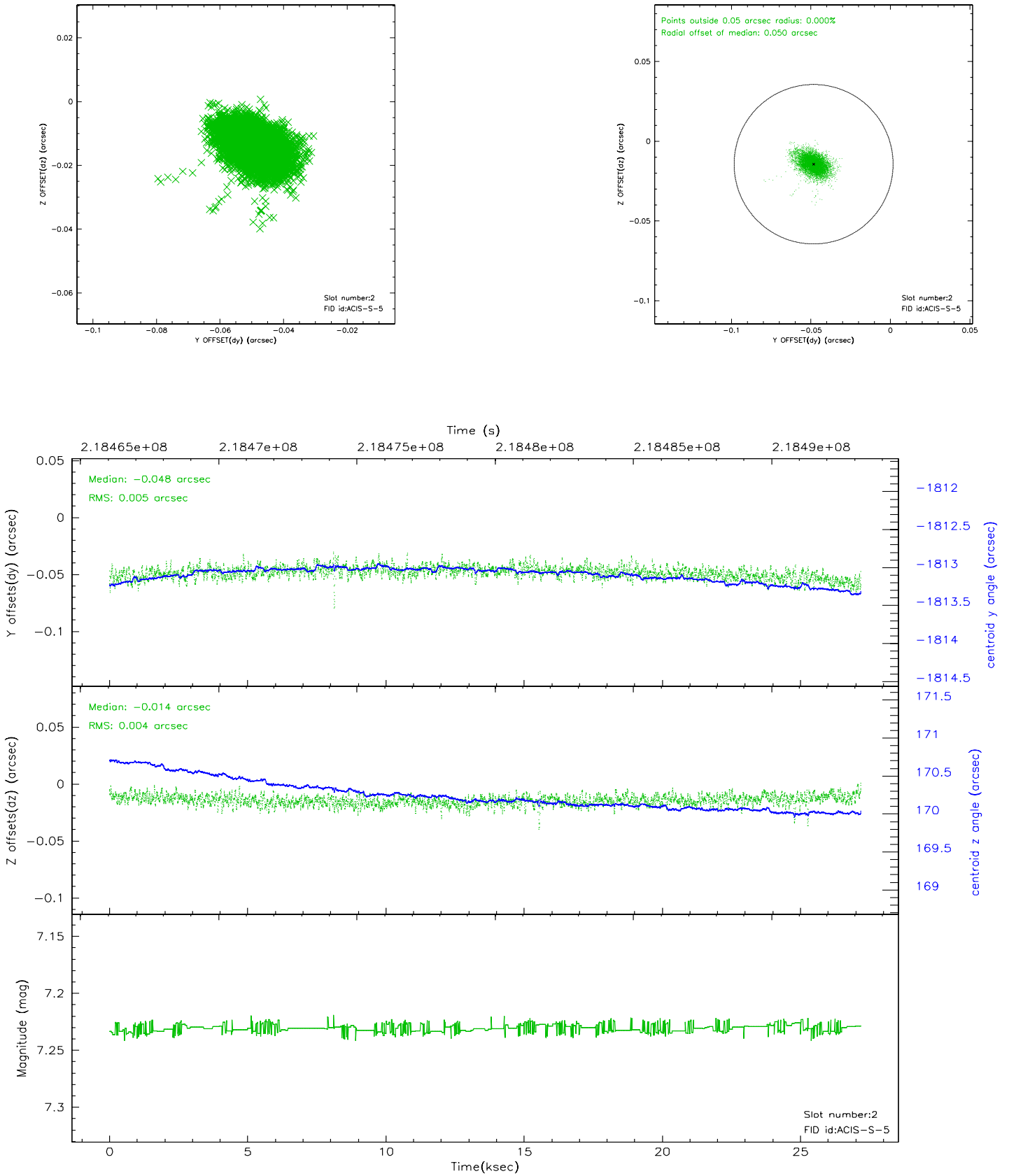
### 2.5.1 Slot 0



## 2.5.2 Slot 1

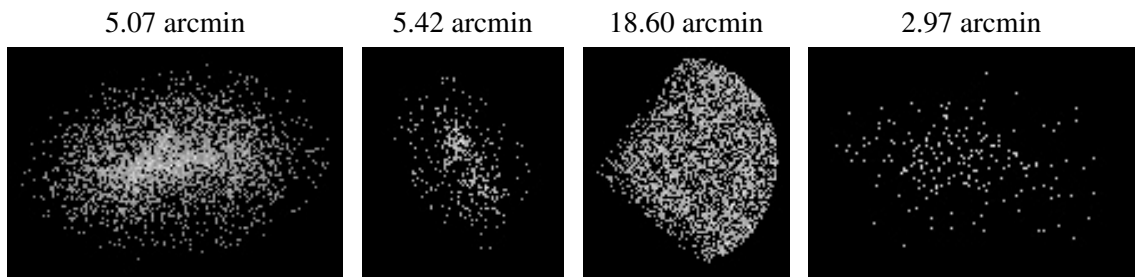


### 2.5.3 Slot 2





### 3 Point Sources



## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2006.04.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	26.95679

### A.2 Comments

Roll constraint satisfied.