

# V&V Reference Report

## L2 ASCDS Version : 7.6.8

Observation 3935 - L2 Version 001  
Chandra X-Ray Center

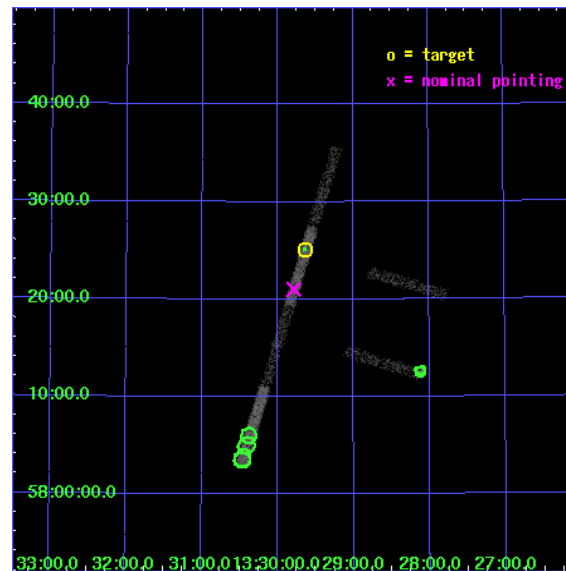
L2 Processing Date : Jul 11 2006

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# 1 Front

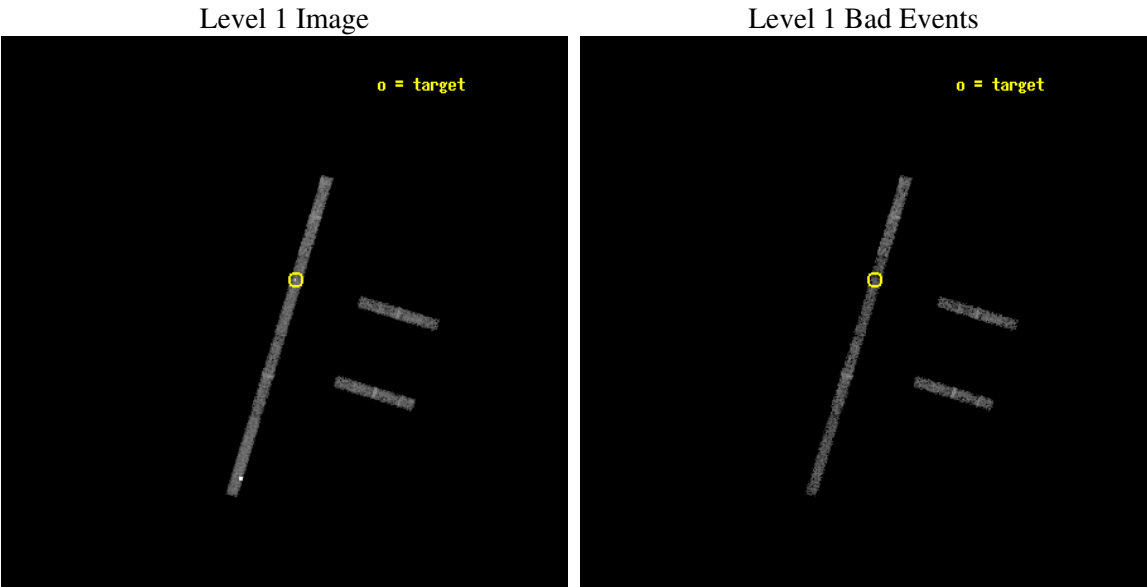
seq_num	600309
obs_id	3935
title	PROBING THE SPECTRAL VARIABILITY OF THE ULTRALUMINOUS X-RAY SOURCE NGC 5204 X-1
observer	Dr Timothy Roberts
object	NGC 5204 X-1
dtcycle	0
cycle	P
ra_targ	202.410833
dec_targ	58.418333
ra_nom	202.4469091627
dec_nom	58.350274780023
roll_nom	286.96337979415
revision	2
ontime	4764.8588987589
livetime	4500.9732661276
ontime2	4764.8588987589
ontime3	4764.8588987589
ontime5	4764.8588987589
ontime6	4764.8588788509
ontime7	4764.8588987589
ontime8	4764.8588987589
l2events	7945



2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 2

Chip 3

Chip 5



Chip 6

Chip 7

Chip 8



### 2.1.3 Parameters

obi_num	0
ascdsver	7.6.8
caldsver	3.2.2
date	2006-07-11T03:33:45
revision	2

sched_exp_time	4600.000000
ontime	5180.5465313494
ontime2	5180.5465114713
ontime3	5180.5465313494
ontime5	5180.5465313494
ontime6	5180.5465114415
ontime7	5180.5465313494
ontime8	5181.2875514627
l1events	44762

### 2.1.4 Events

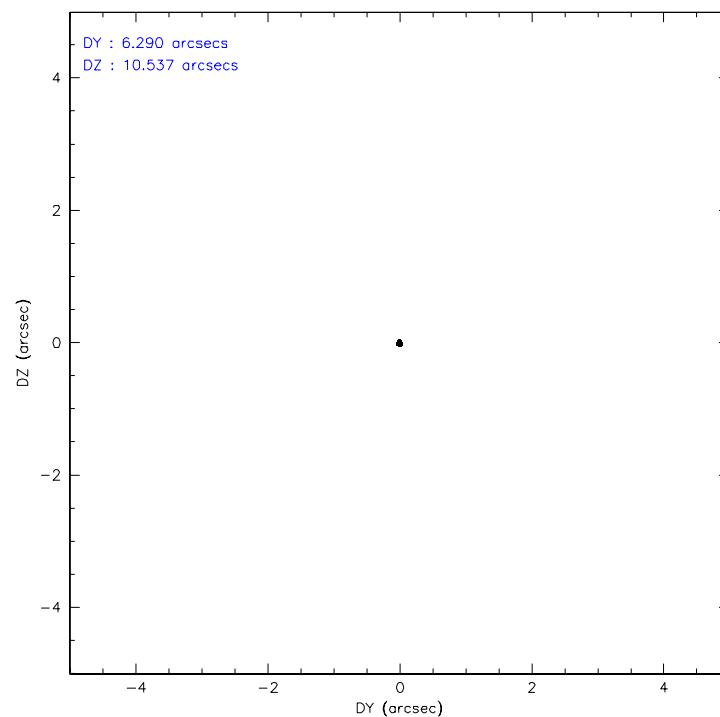
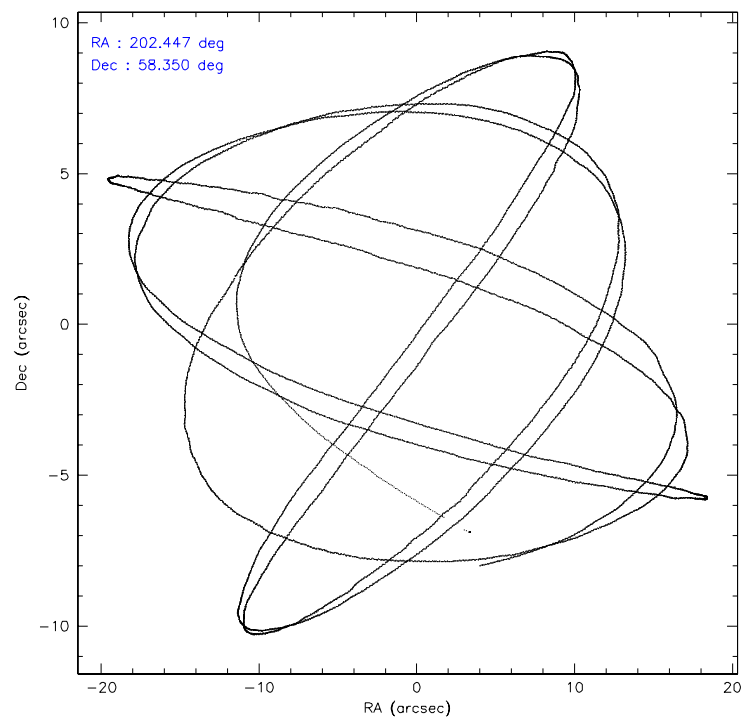
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	5736	5462	12622	5745	7014	8183
rejected events	5043	4860	4486	5106	3876	6787
rejected %	87%	88%	35%	88%	55%	82%

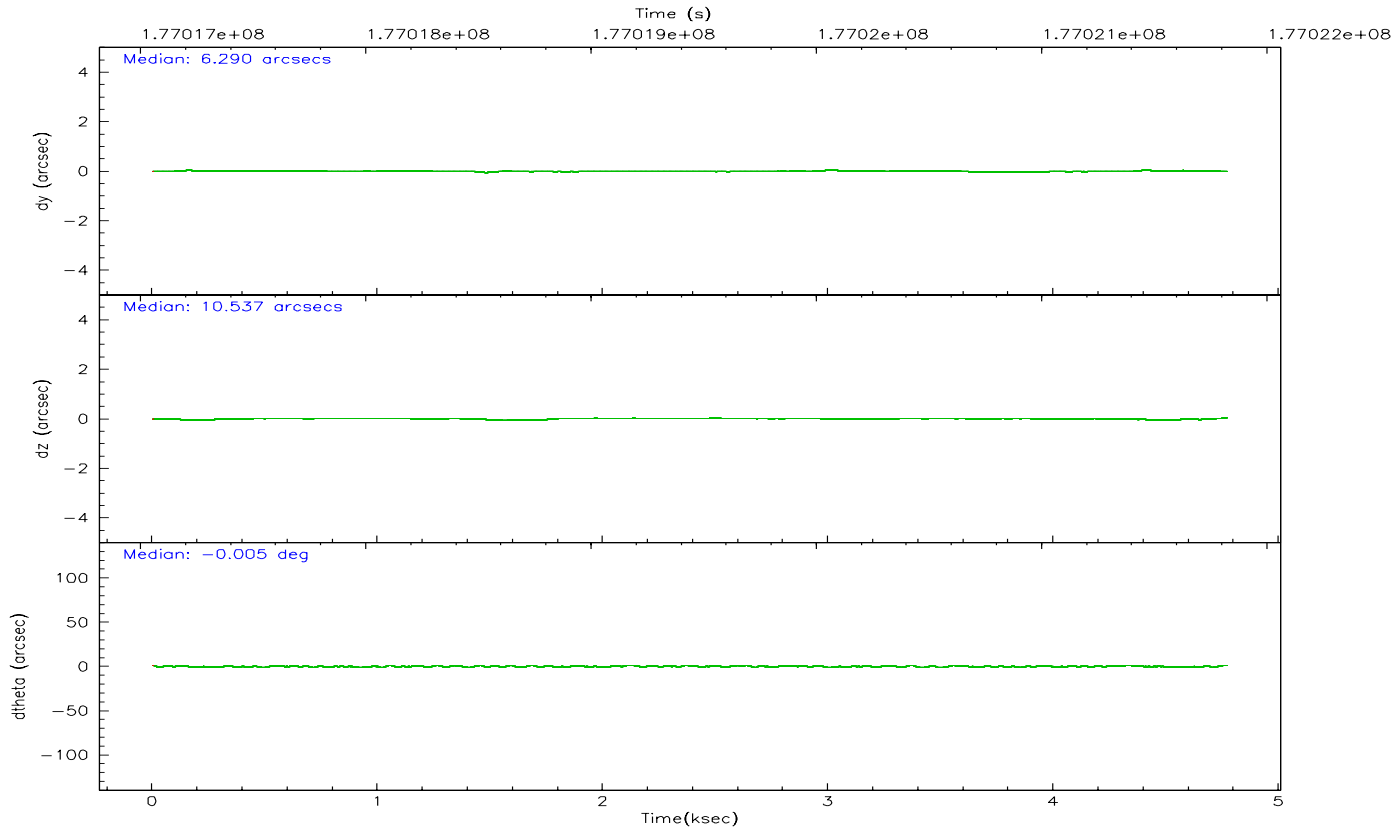
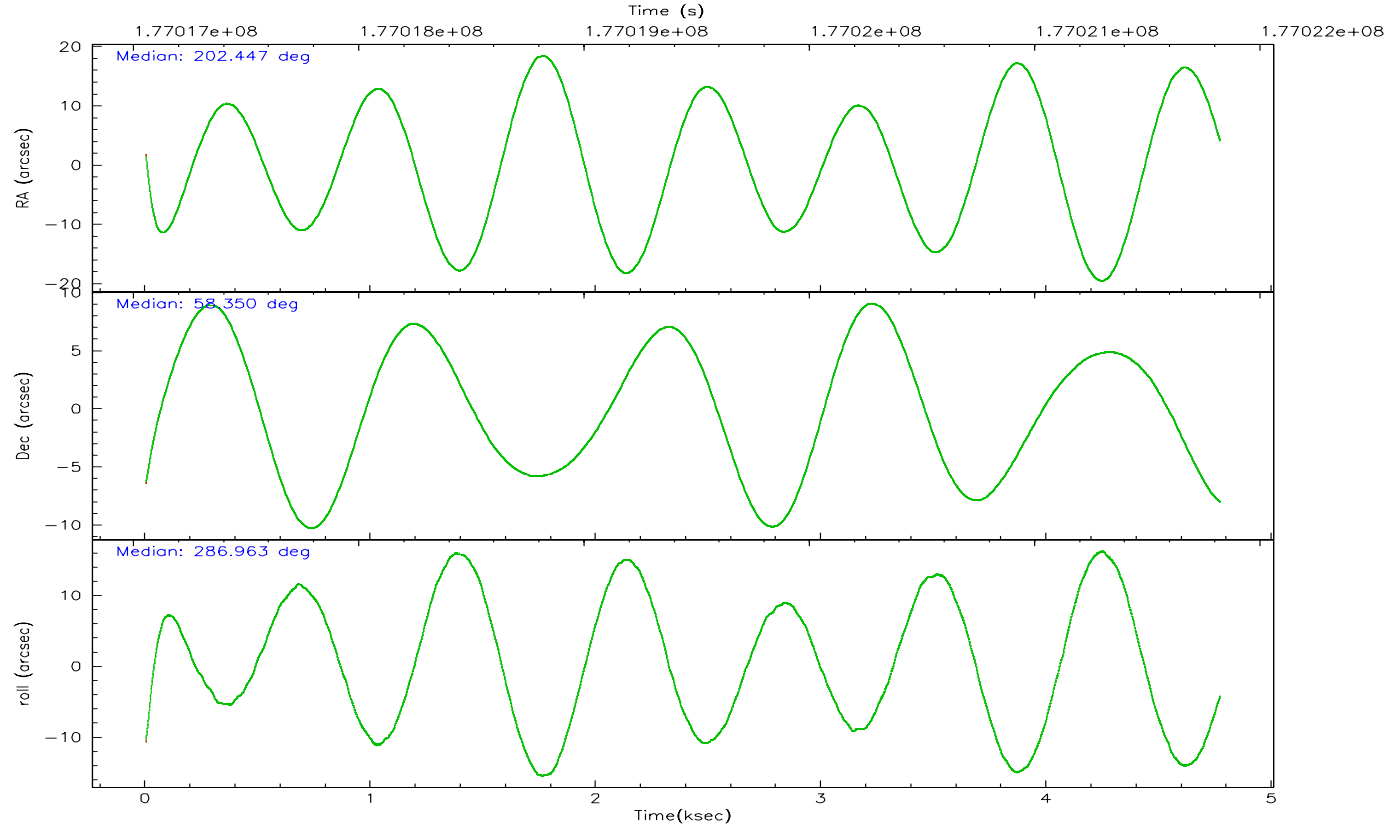
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	336	257	5908	251	475	397
	5%	4%	46%	4%	6%	4%
grade 1 events	4	0	15	0	4	4
	0%	0%	0%	0%	0%	0%
grade 2 events	116	104	967	140	787	294
	2%	1%	7%	2%	11%	3%
grade 3 events	96	104	121	97	283	173
	1%	1%	0%	1%	4%	2%
grade 4 events	80	105	135	89	254	159
	1%	1%	1%	1%	3%	1%
grade 5 events	197	160	310	189	417	256
	3%	2%	2%	3%	5%	3%
grade 6 events	95	82	1755	113	1547	461
	1%	1%	13%	1%	22%	5%
grade 7 events	4812	4650	3411	4866	3247	6439
	83%	85%	27%	84%	46%	78%

## 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	1/8	1/8
Pointing RA	202.408385	202.4469091626951	Subarray start row	0	449
Pointing Dec	58.368481	58.35027478002346	Subarray row count	1024	128
Pointing Roll	286.839579	286.9633797941471	Alternating exposures requested	N	N
SIM focus pos (mm)	-0.684267	-0.6828225247311905	Primary exposure time	0.000000	0.7
SIM defocus (mm)	0	0.001444936568705701			
SIM translation stage pos (mm)	-190.132523	-190.1425803651734			
SIM translation stage offset (mm)	0	0.01005778216563158			
Observation start time	177017229.184000	177016234.08083			
Observation start date	2003-08-11T19:26:05	2003-08-11T19:10:34			
Observation end time	177021829.184000	177023435.21864			
Observation end date	2003-08-11T20:42:45	2003-08-11T21:10:35			
Read mode	TIMED	TIMED			

### 2.3 Aspect





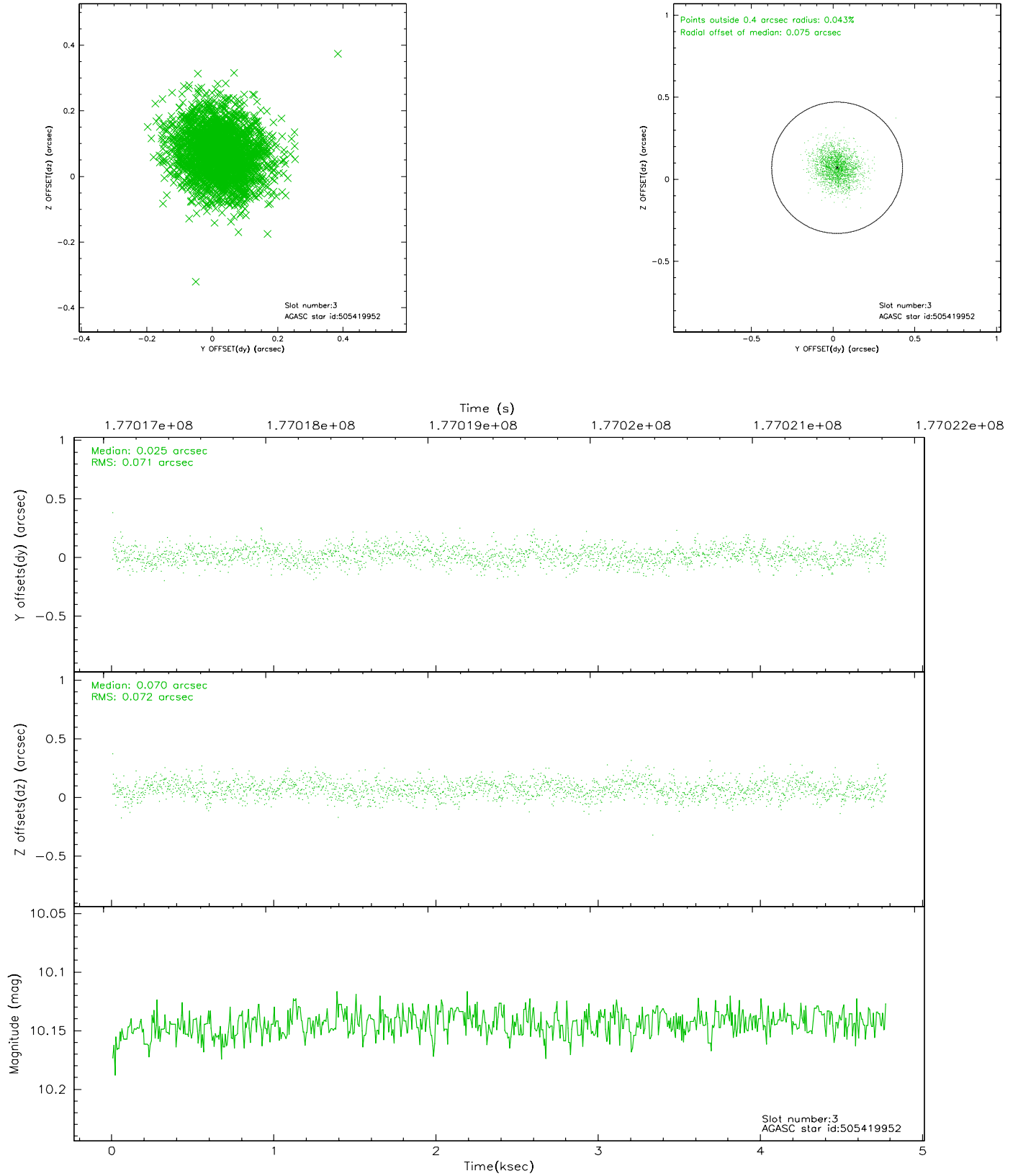
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.18	1163	-0.011	-0.011	0.006	0.011	0.000000	0.000000	936.99	-1727.39
1	FID	ACIS-S-5	7.23	1162	-0.002	-0.003	0.005	0.010	0.000000	0.000000	-1811.26	168.87
2	FID	ACIS-S-6	7.34	1162	-0.008	0.026	0.006	0.010	0.000000	0.000000	401.18	814.30
3	GUIDE	505419952	10.14	2322	0.025	0.070	0.107	0.172	201.880700	58.804366	-1789.96	-486.12
4	GUIDE	505421936	8.87	2322	-0.050	0.098	0.060	0.101	201.854843	57.887820	1345.02	-1514.13
5	GUIDE	505421968	8.18	2324	0.020	-0.029	0.063	0.100	202.022601	58.209270	335.90	-866.55
6	GUIDE	505422344	8.62	2325	0.036	-0.055	0.059	0.098	202.767077	57.846963	1995.22	113.90
7	GUIDE	505418080	9.05	2323	-0.029	-0.086	0.070	0.114	201.533017	58.898788	-2307.47	-1002.07

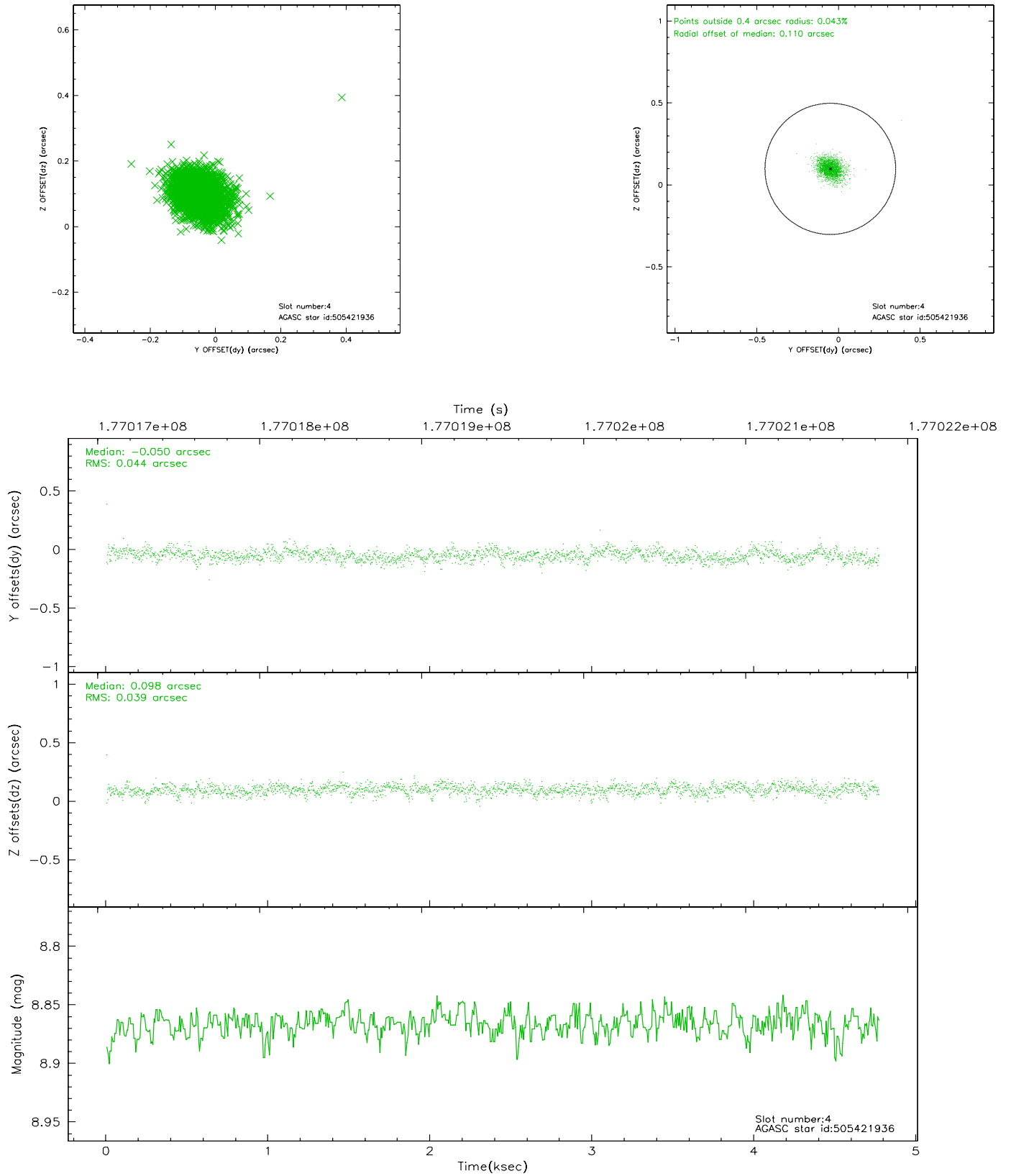


## 2.4 Star Slots

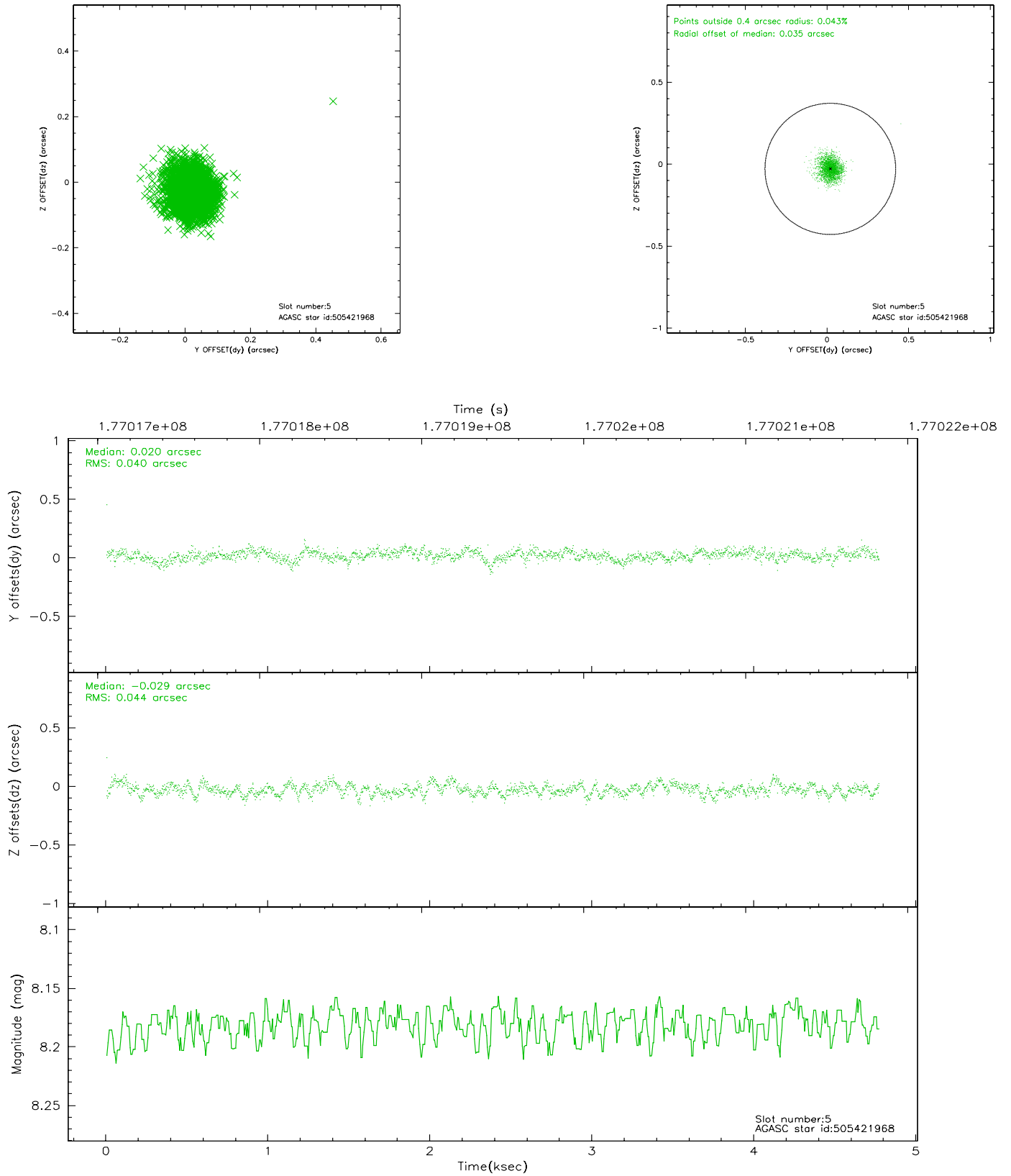
### 2.4.1 Slot 3



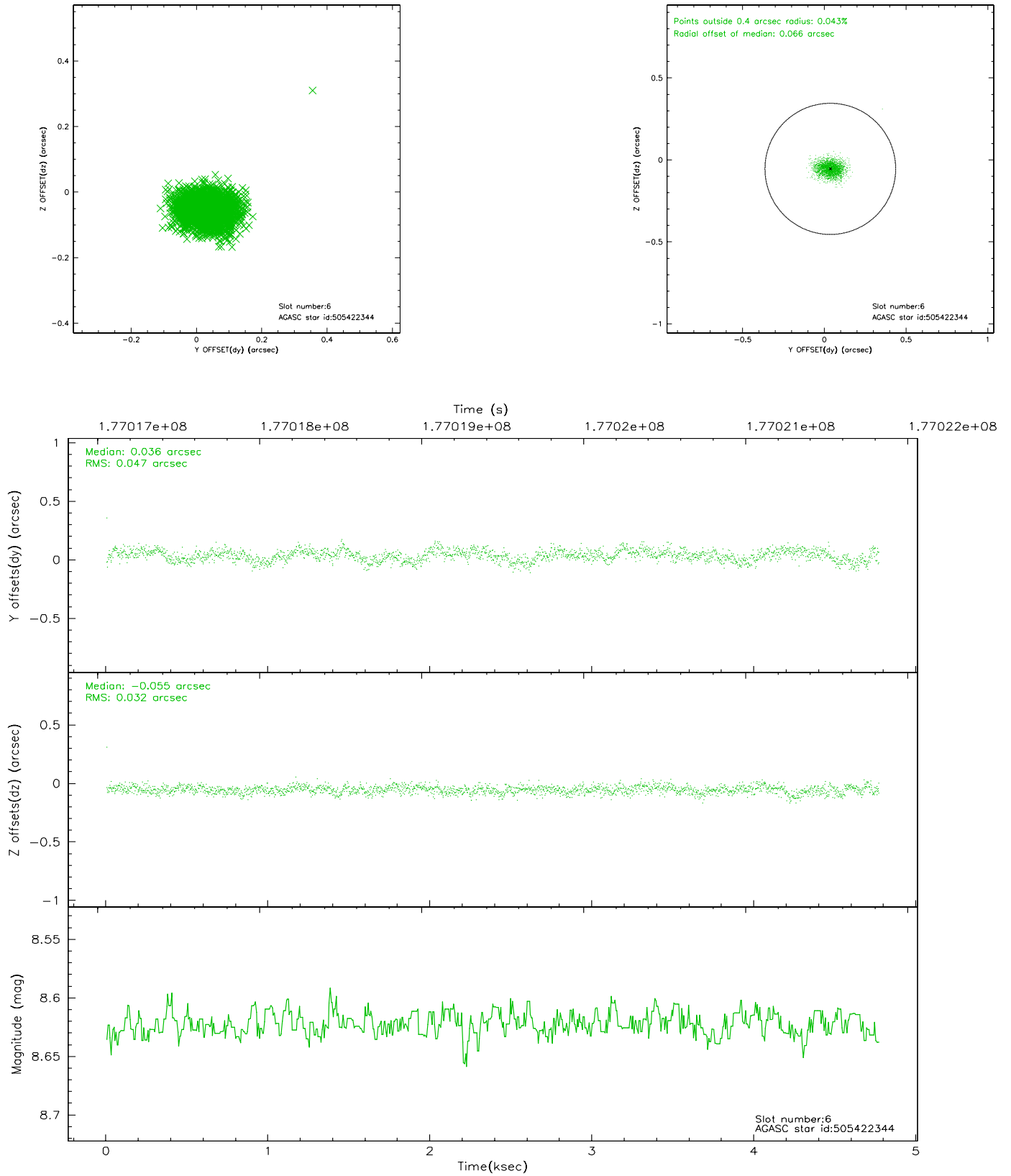
## 2.4.2 Slot 4



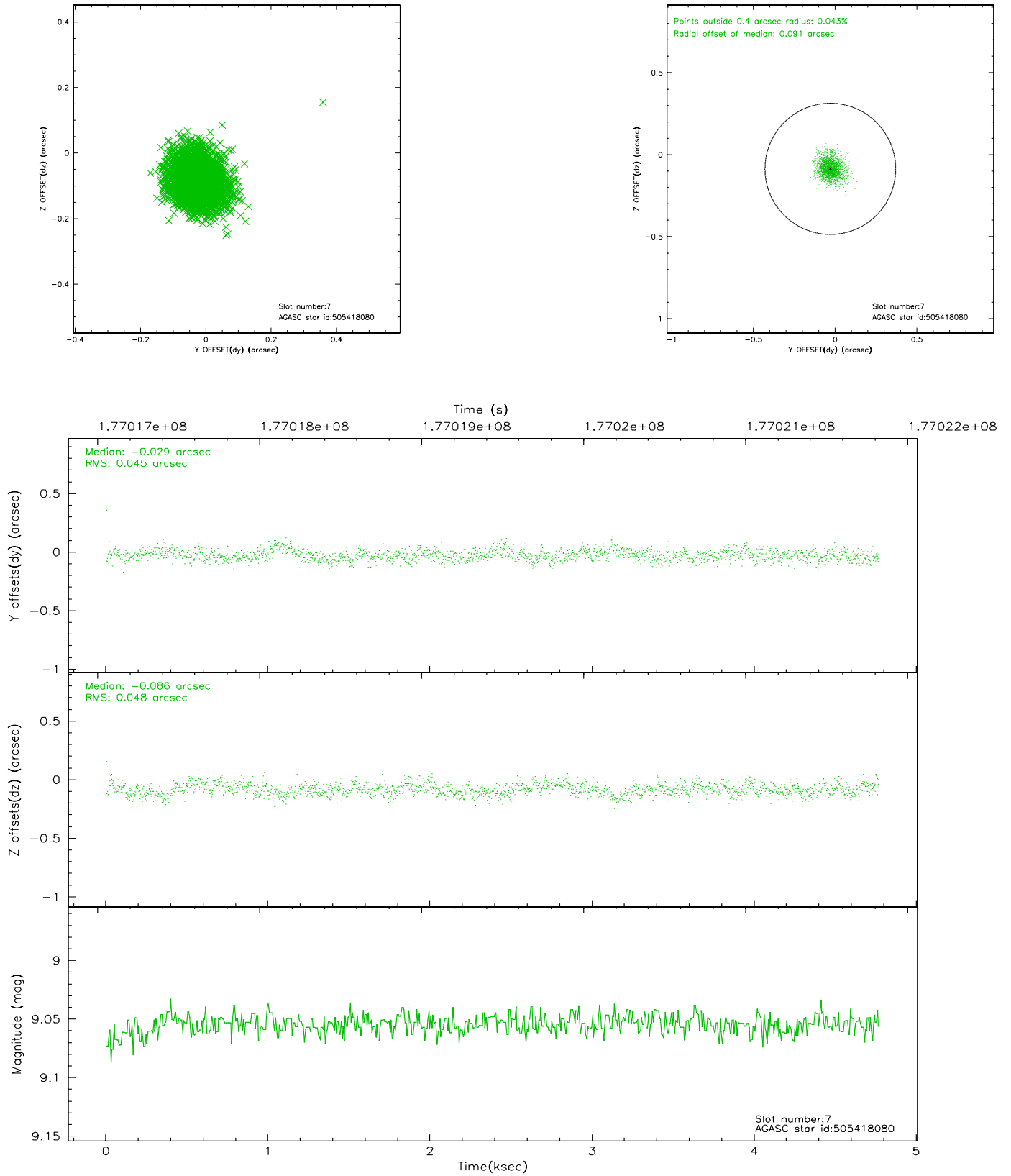
### 2.4.3 Slot 5



## 2.4.4 Slot 6

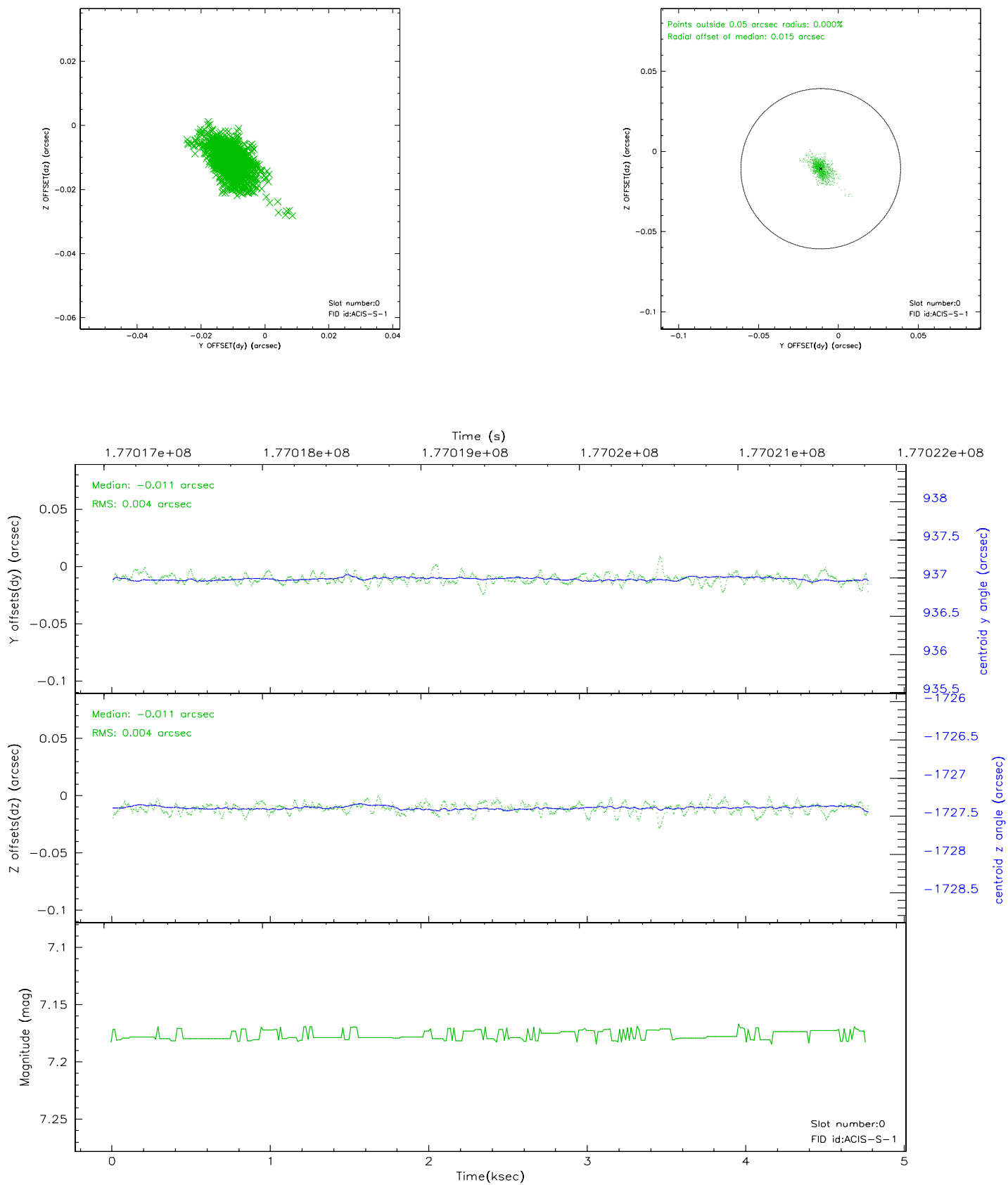


## 2.4.5 Slot 7

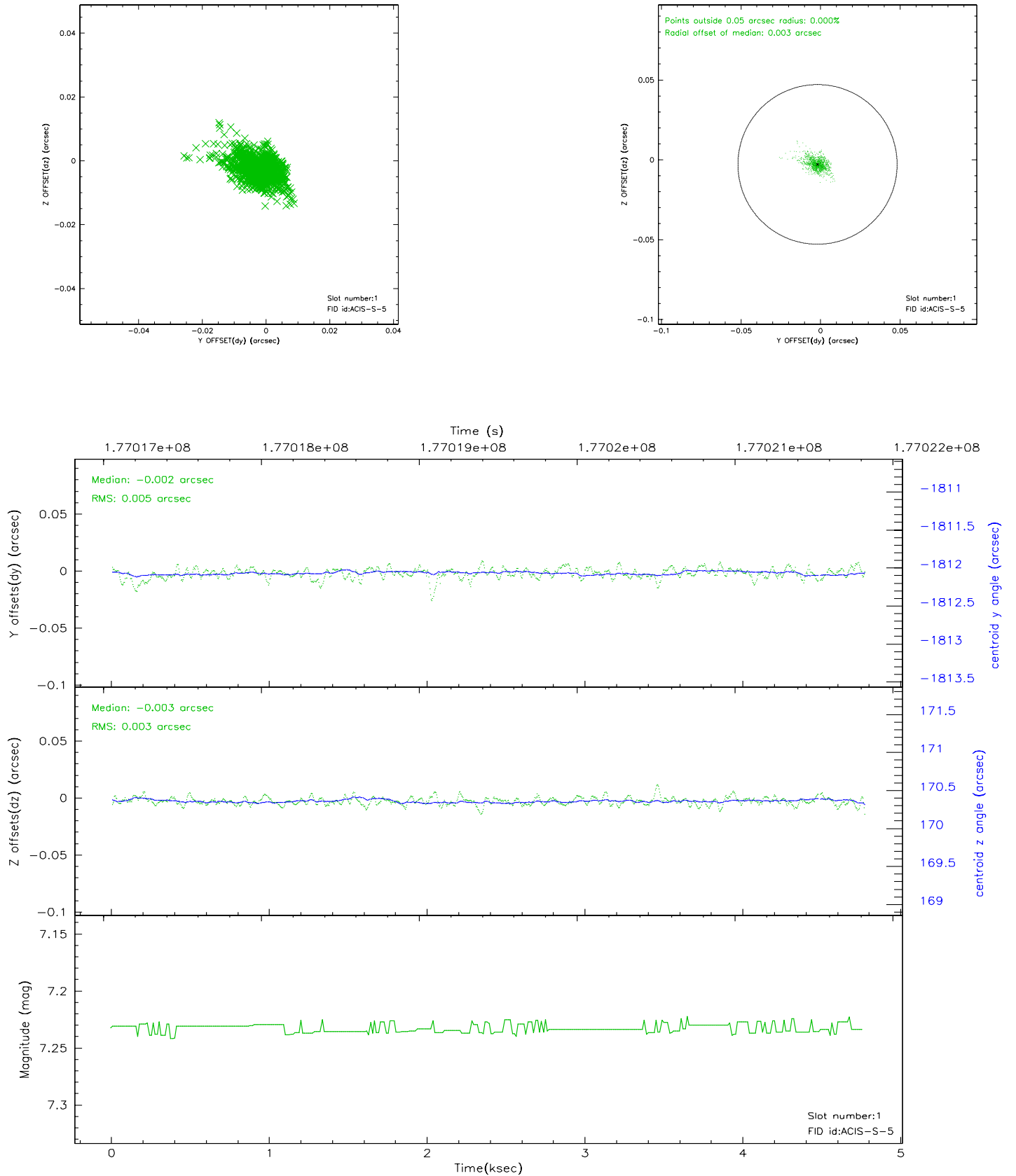


## 2.5 FID Slots

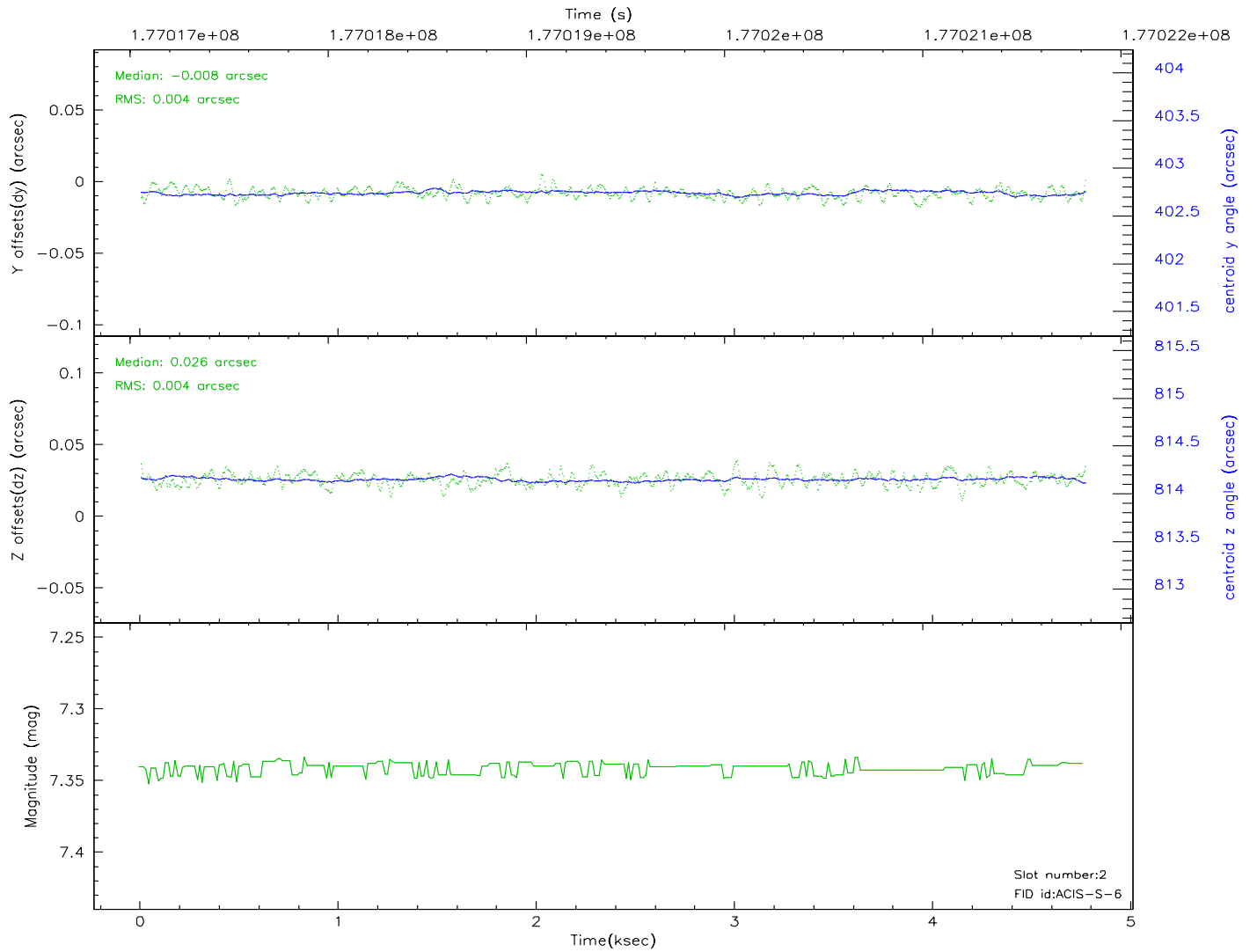
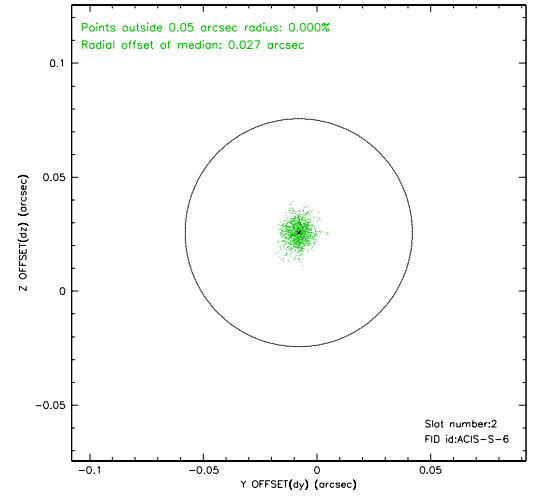
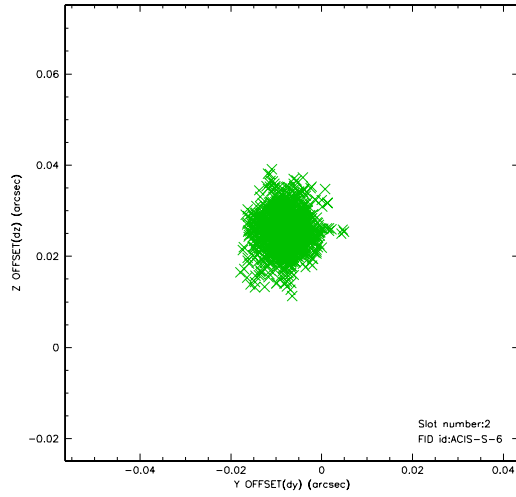
### 2.5.1 Slot 0



## 2.5.2 Slot 1

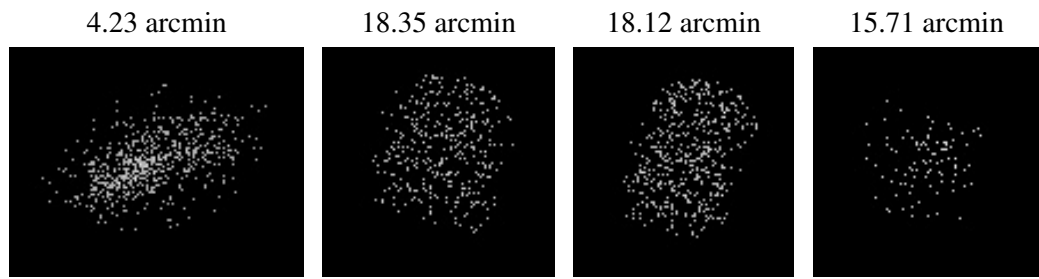


### 2.5.3 Slot 2





### 3 Point Sources



## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2006.07.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.764

### A.2 Comments