

# V&V Reference Report

## L2 ASCDS Version : 7.6.7.1

Observation 5645 - L2 Version 002  
Chandra X-Ray Center

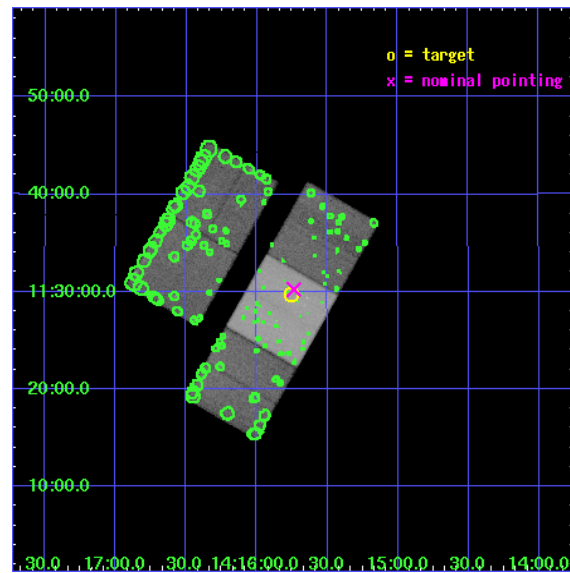
L2 Processing Date : Mar 21 2006

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# 1 Front

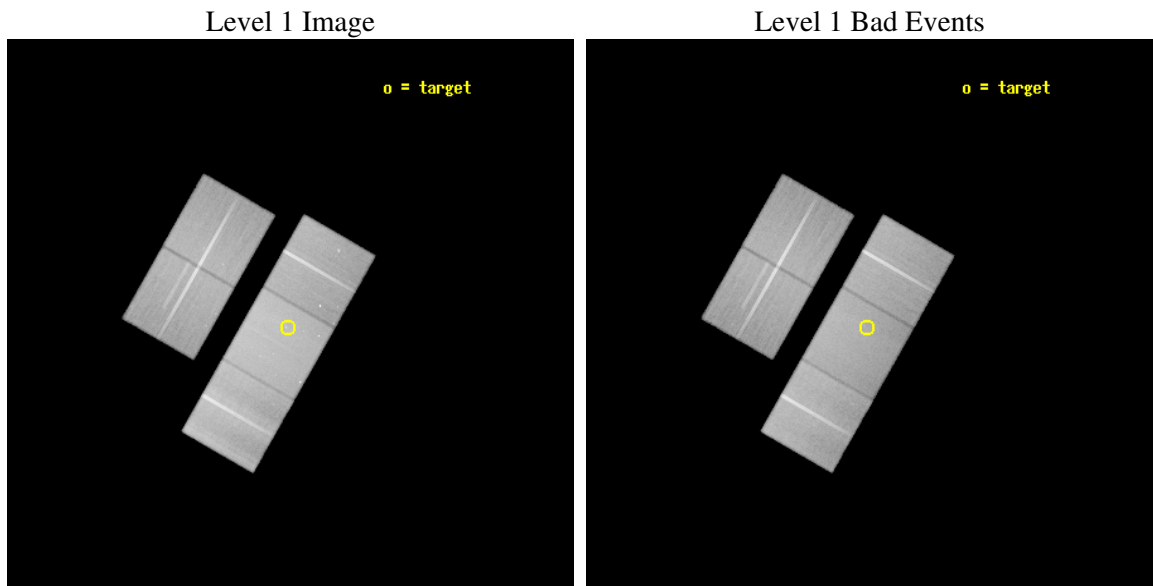
seq_num	701068
obs_id	5645
title	MAGNIFIED VIEWS OF THE CLOVERLEAF QSO
observer	Dr. GEORGE CHARTAS
object	H 1413+117
dtcycle	0
cycle	P
ra_targ	213.9375
dec_targ	11.495
ra_nom	213.93418969378
dec_nom	11.504084271419
roll_nom	119.752411581
revision	2
ontime	90039.499826878
livetime	88863.067475525
ontime2	90023.794835895
ontime3	90036.358836651
ontime6	90036.358796805
ontime7	90039.499826878
ontime8	90030.076935768
l2events	640599



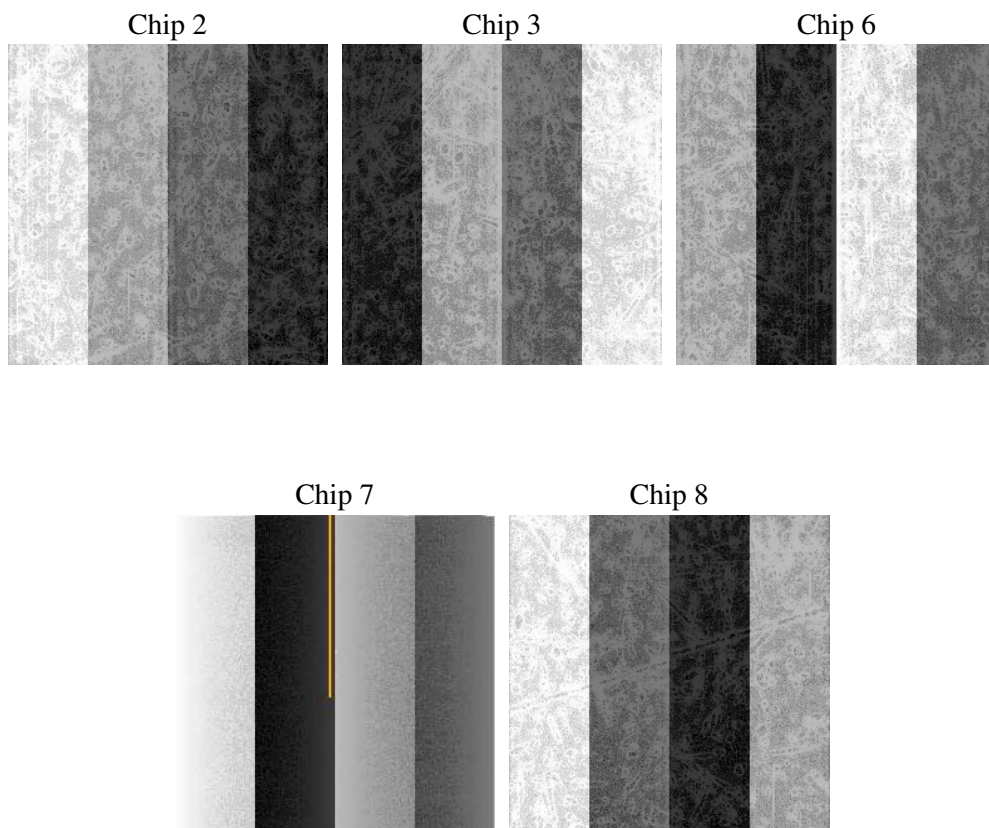
## 2 OBI

### 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	2006-03-21T17:47:02
revision	2

sched_exp_time	90000.000000
ontime	90043.427877516
ontime2	90027.722866654
ontime3	90040.286887288
ontime6	90040.286847442
ontime7	90043.427877516
ontime8	90034.004966527
l1events	3762999

### 2.1.4 Events

	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	657407	653960	681687	917728	852217
rejected events	576635	573742	595644	567703	670550
rejected %	87%	87%	87%	61%	78%

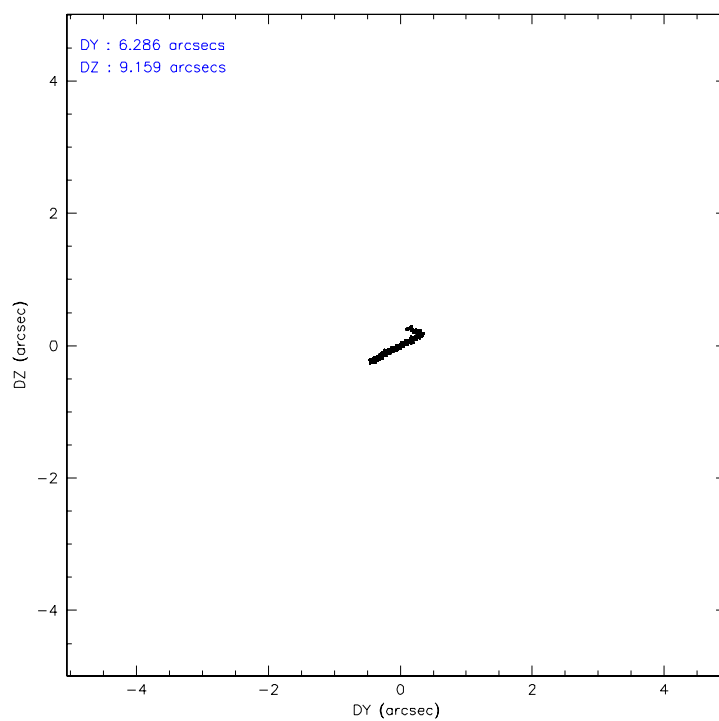
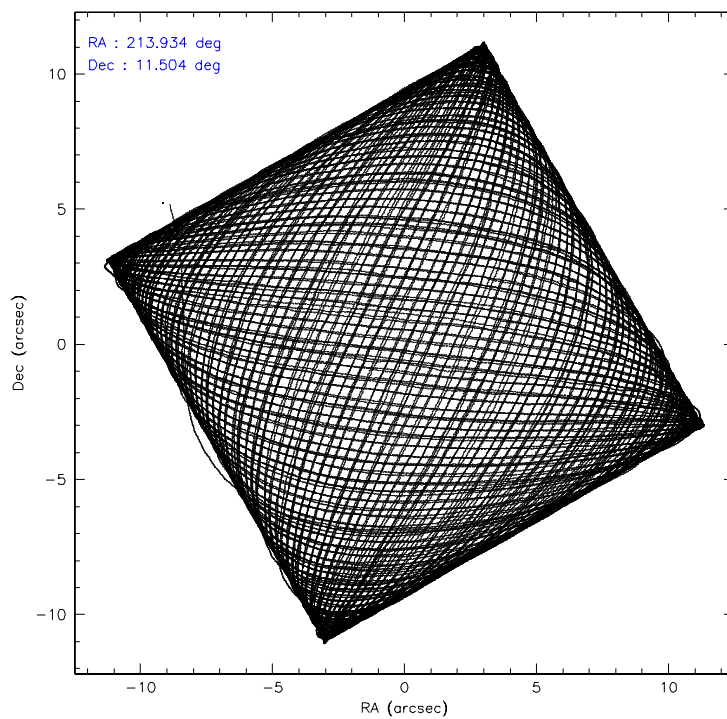
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	37178	36106	36744	22130	57960
	5%	5%	5%	2%	6%
grade 1 events	367	442	350	569	571
	0%	0%	0%	0%	0%
grade 2 events	15837	15038	17331	87417	39994
	2%	2%	2%	9%	4%
grade 3 events	7499	7657	7832	17329	18925
	1%	1%	1%	1%	2%
grade 4 events	7487	7718	7806	16926	17548
	1%	1%	1%	1%	2%
grade 5 events	25575	30092	31320	58221	41325
	3%	4%	4%	6%	4%
grade 6 events	12771	13701	16332	206230	47242
	1%	2%	2%	22%	5%
grade 7 events	550693	543206	563972	508906	628652
	83%	83%	82%	55%	73%

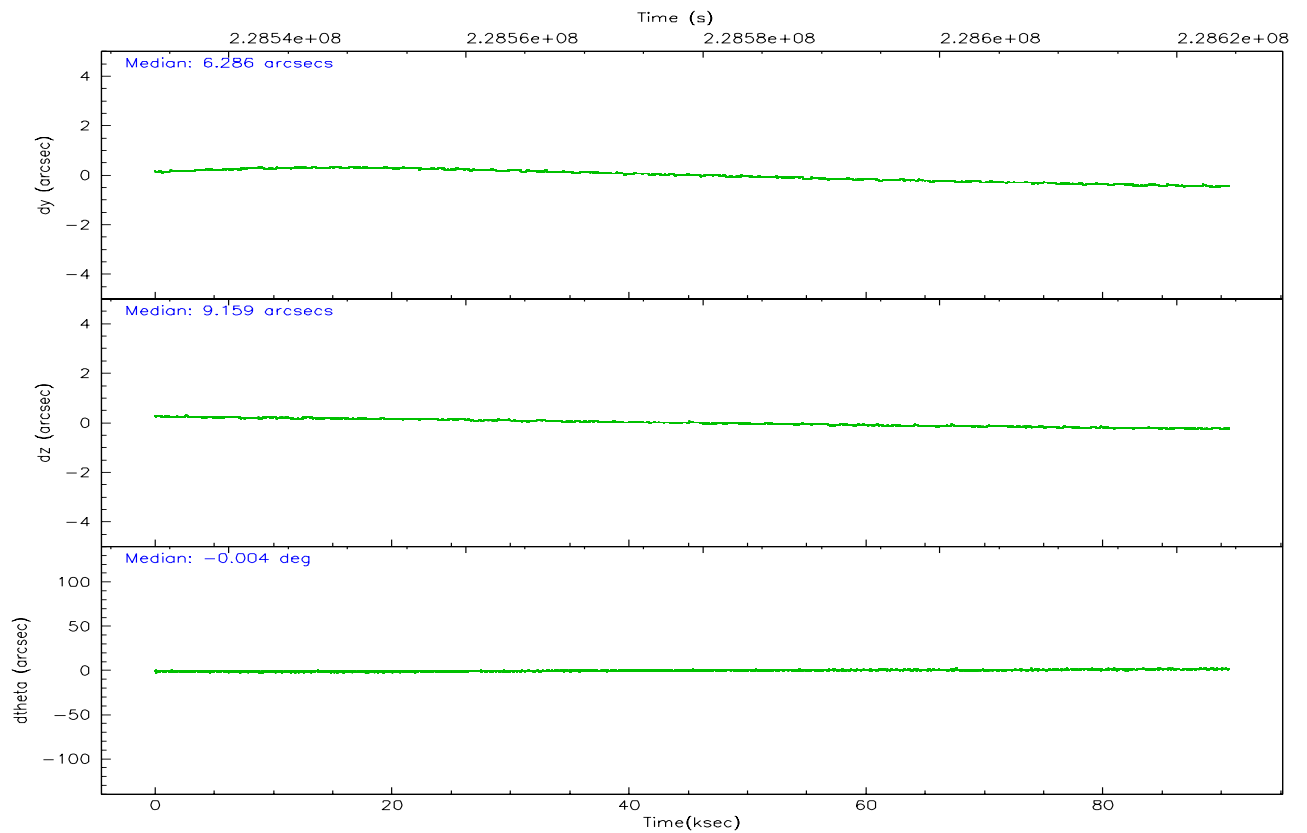
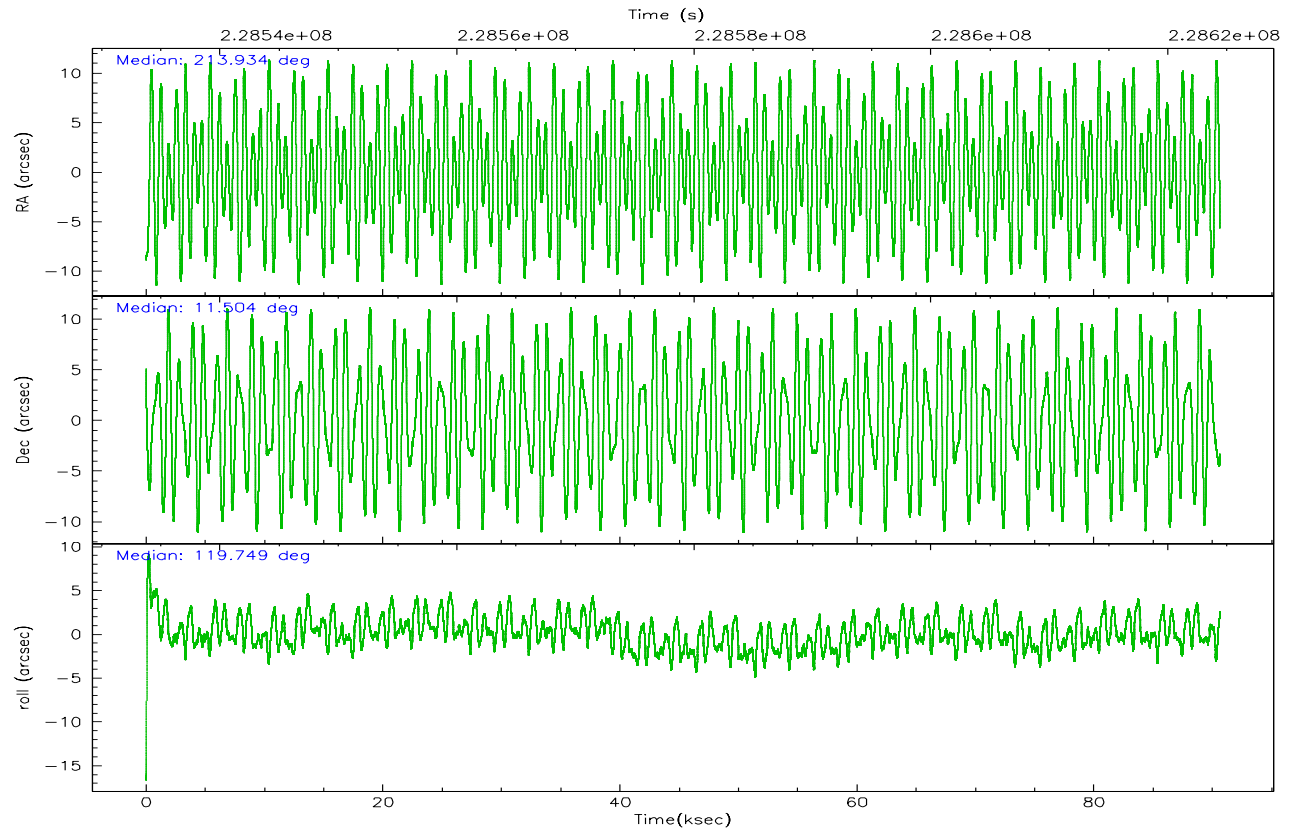


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-23678	ACIS-23678	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	213.958371	213.9341896937833	Alternating exposures requested	N	N
Pointing Dec	11.490712	11.50408427141905	Primary exposure time	0.000000	3.1
Pointing Roll	119.590971	119.7524115809994			
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	228534417.184000	228533250.39366			
Observation start date	2005-03-30T01:45:53	2005-03-30T01:27:30			
Observation end time	228624417.184000	228624960.22283			
Observation end date	2005-03-31T02:45:53	2005-03-31T02:56:00			
Read mode	TIMED	TIMED			

## 2.3 Aspect



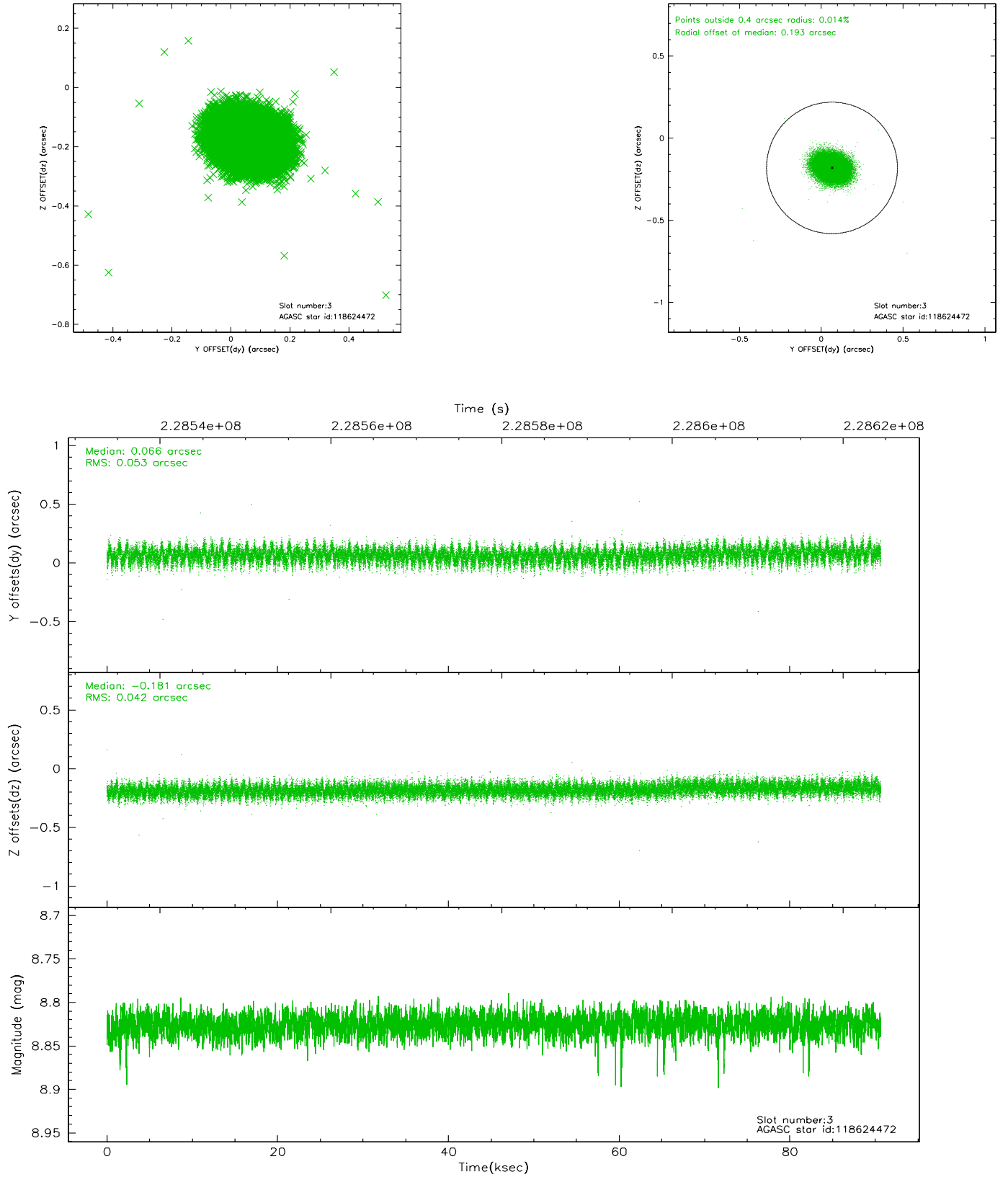


### Slot Statistics

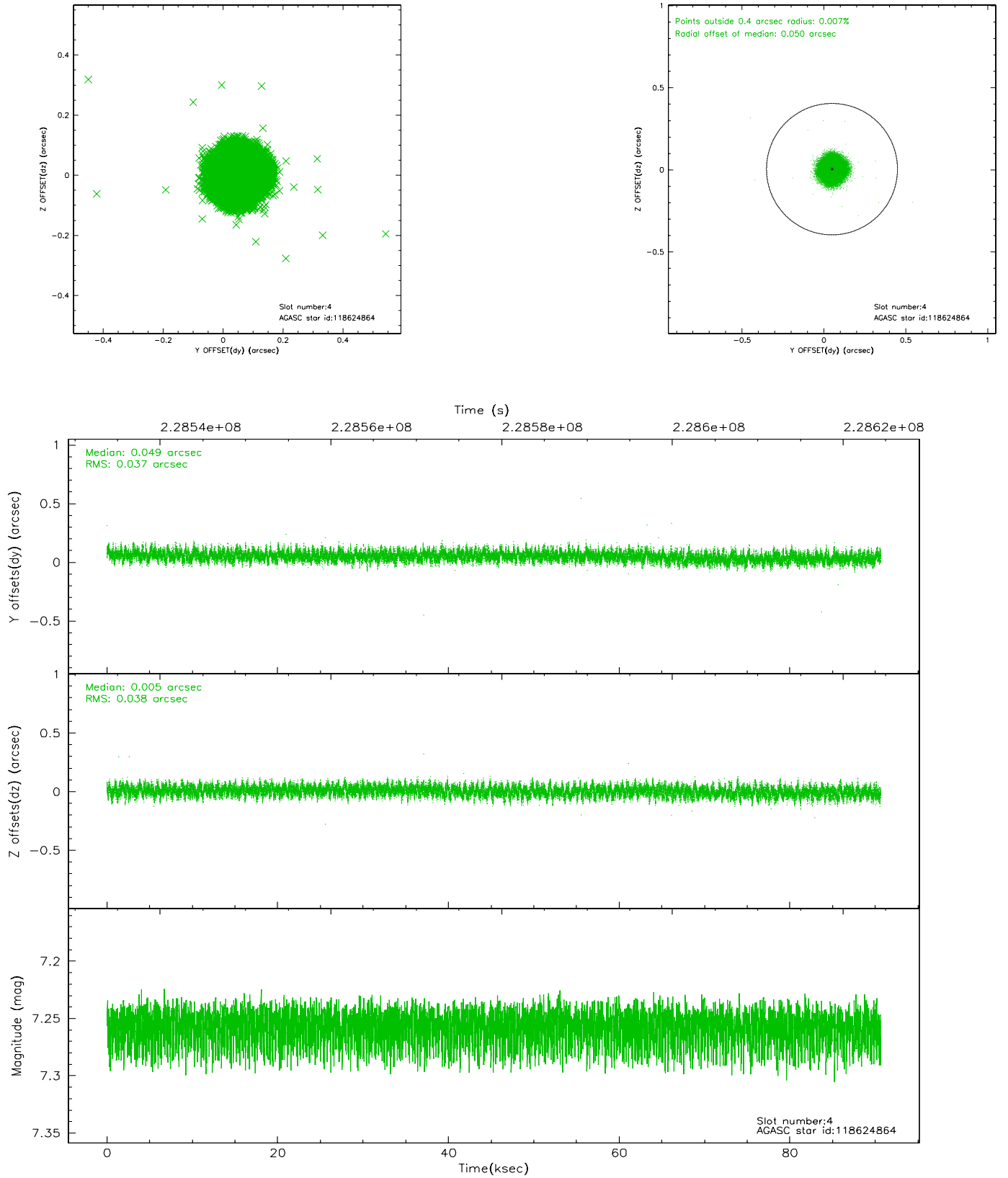
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	22110	-0.053	-0.019	0.011	0.031	0.000000	0.000000	-759.05	-1730.41
1	FID	ACIS-S-4	7.21	22109	0.036	0.041	0.011	0.020	0.000000	0.000000	2154.36	178.23
2	FID	ACIS-S-6	7.36	22108	-0.008	-0.012	0.009	0.014	0.000000	0.000000	402.88	815.47
3	GUIDE	118624472	8.83	44200	0.066	-0.181	0.072	0.118	213.211383	11.620451	1710.08	2058.34
4	GUIDE	118624864	7.26	44218	0.049	0.005	0.057	0.090	214.403642	11.335239	-1261.37	-1090.66
5	GUIDE	118626032	9.72	44177	0.229	-0.099	0.094	0.154	214.111327	10.931412	-2017.26	524.34
6	GUIDE	118626824	9.29	44187	-0.121	0.117	0.098	0.162	213.749334	12.111955	2308.40	-464.37
7	GUIDE	118628136	8.80	44157	-0.225	0.159	0.073	0.118	213.887181	11.834140	1199.01	-392.10

## 2.4 Star Slots

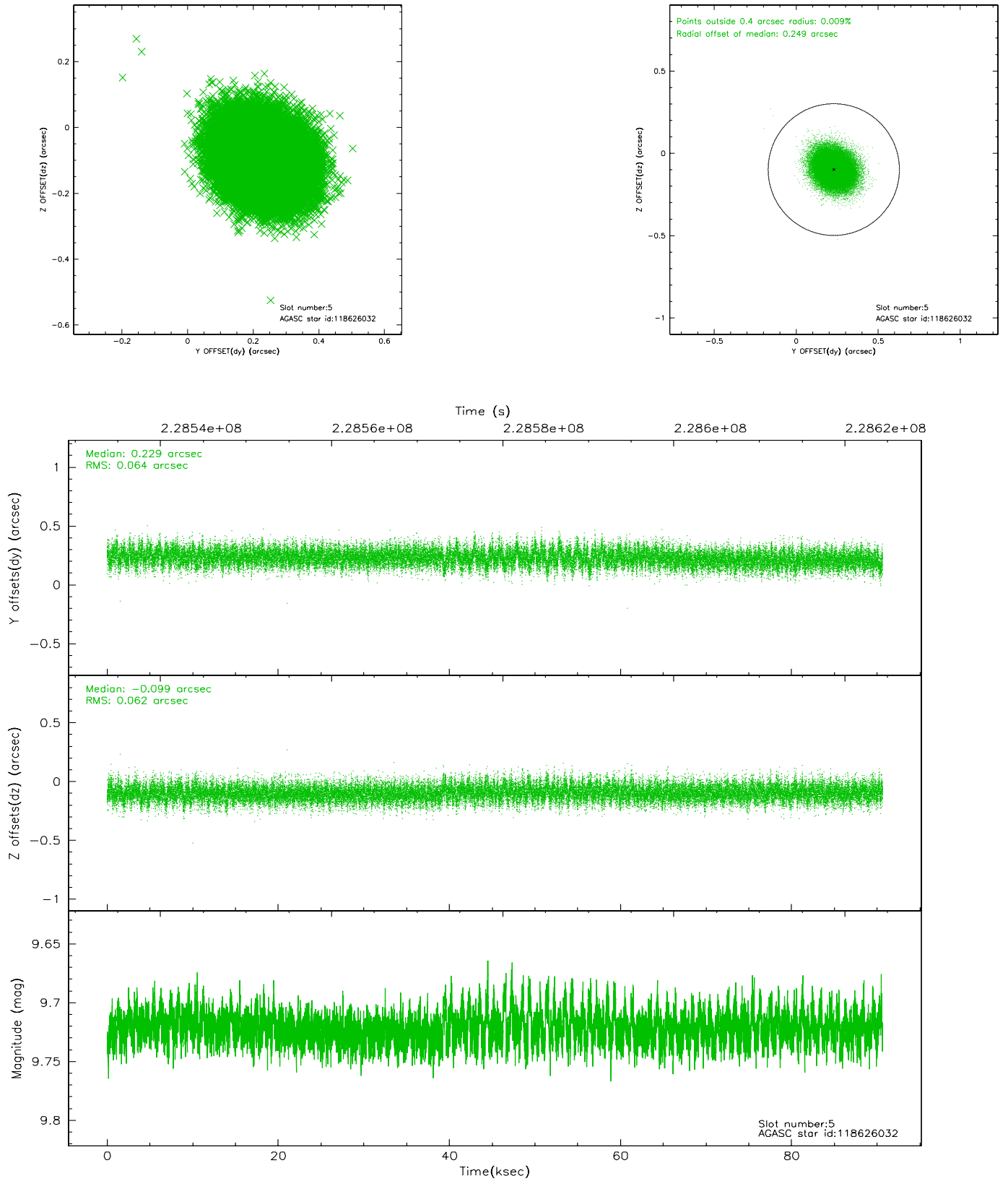
### 2.4.1 Slot 3



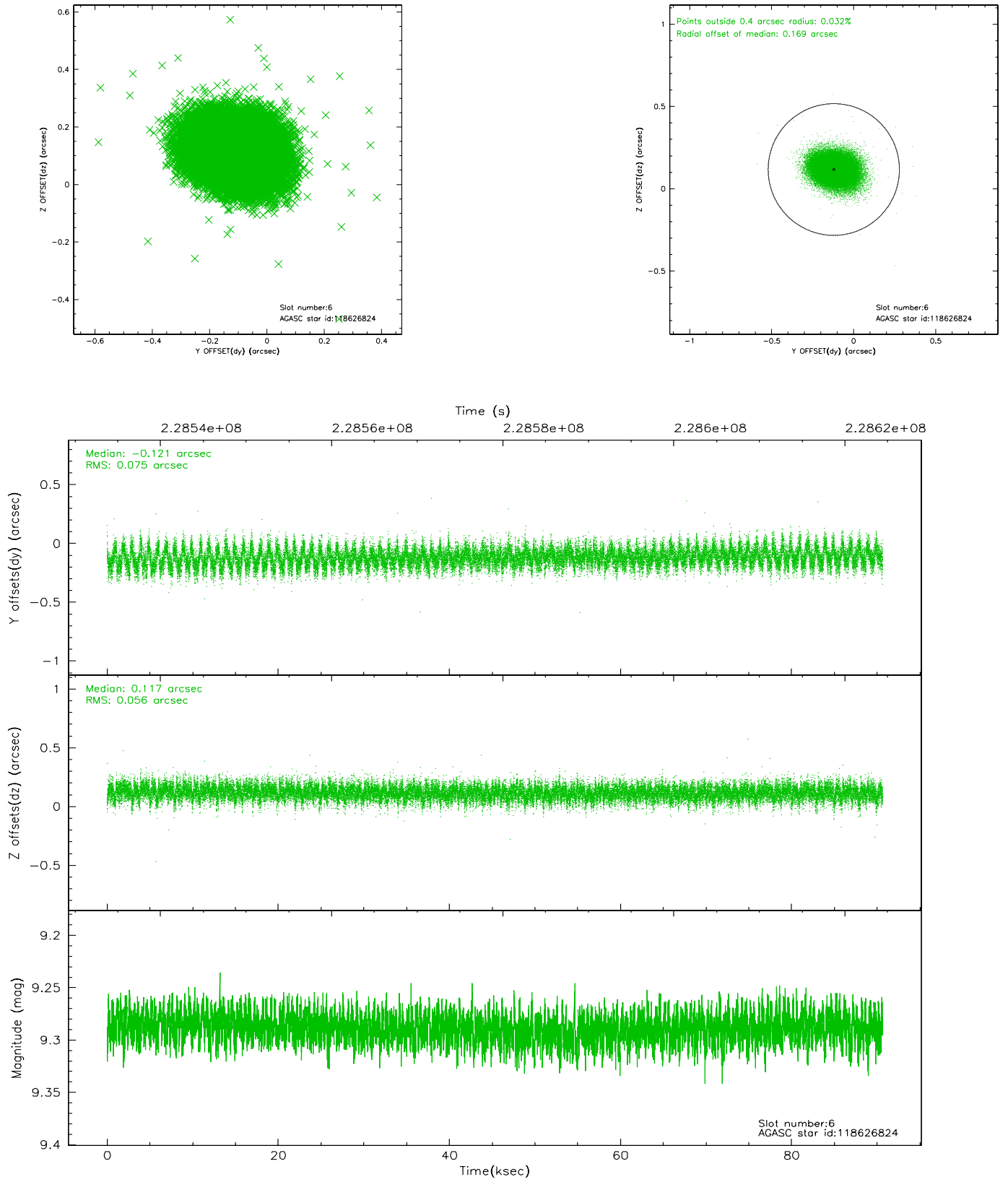
## 2.4.2 Slot 4



### 2.4.3 Slot 5

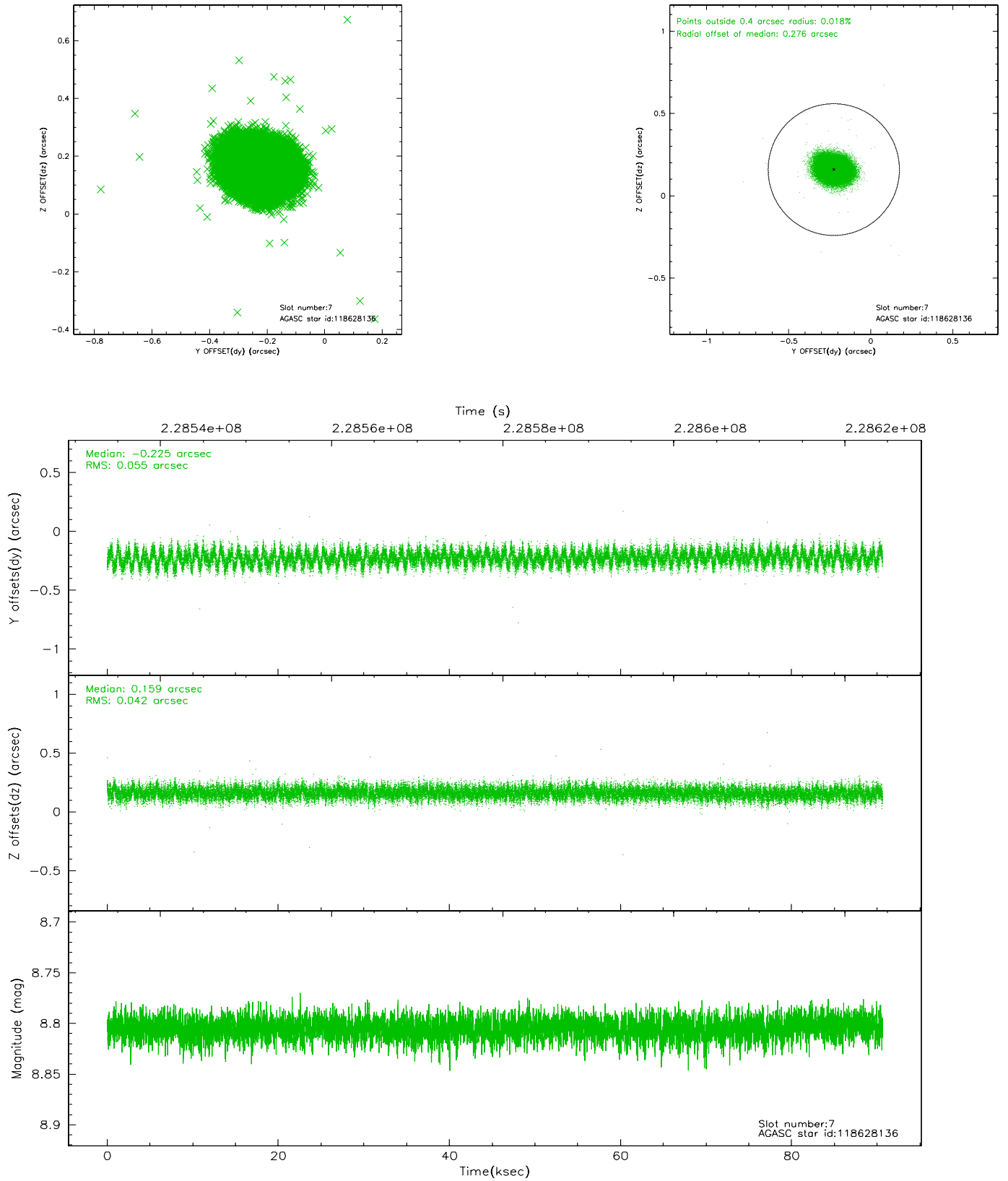


## 2.4.4 Slot 6



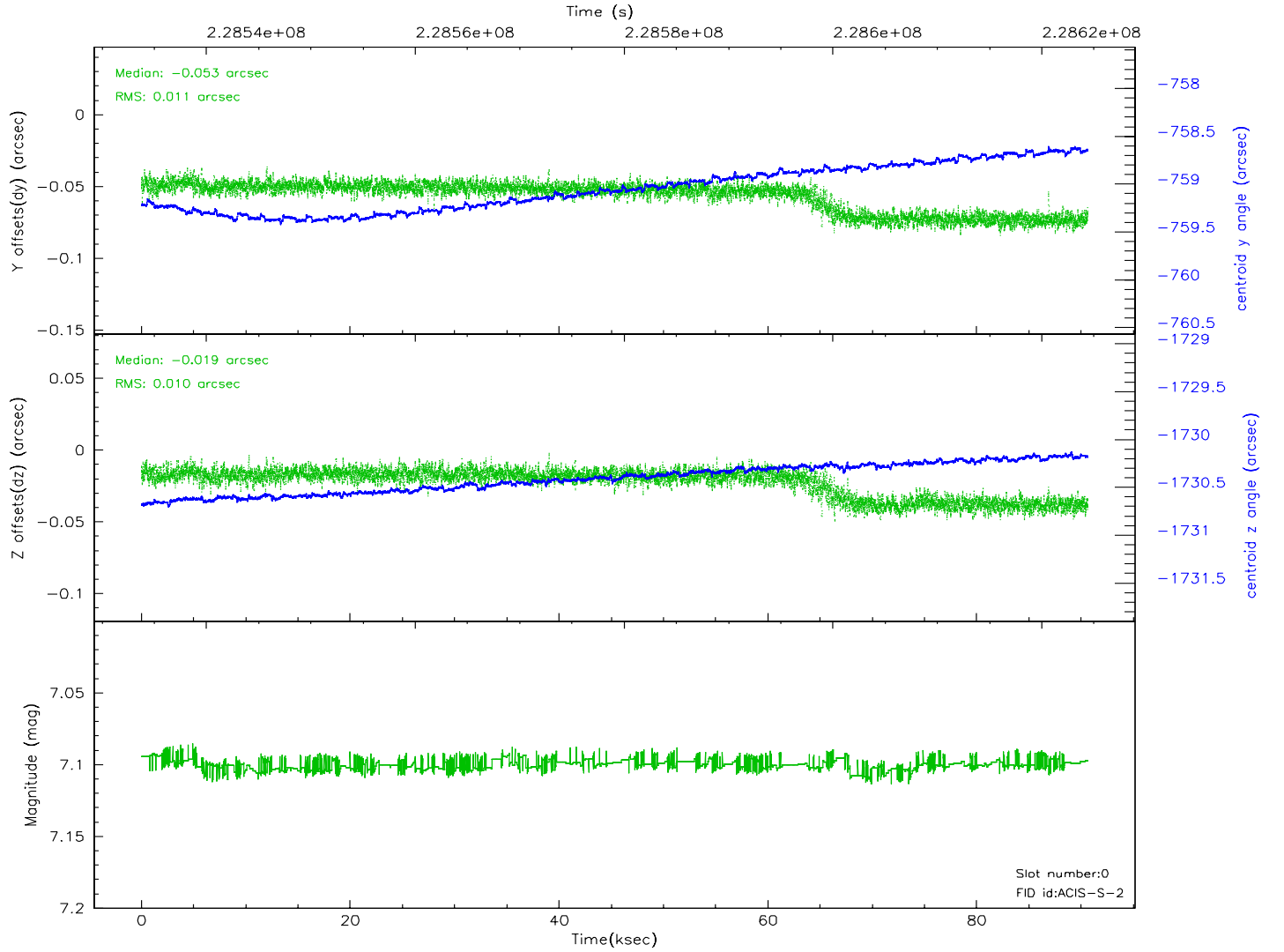
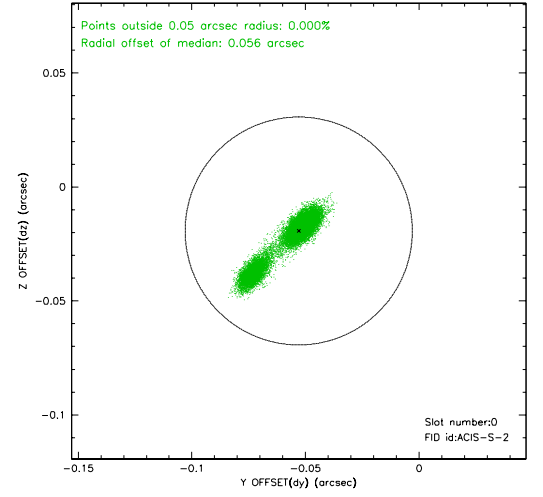
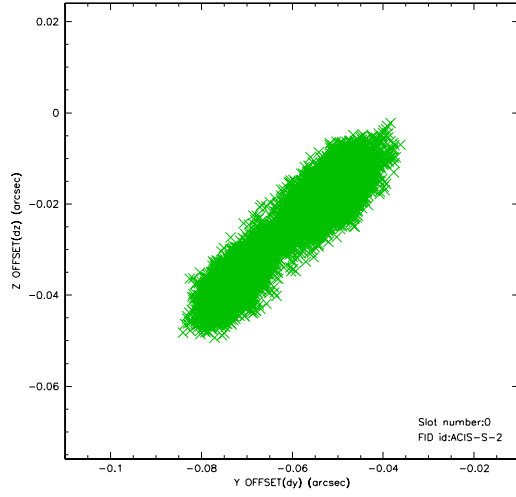


## 2.4.5 Slot 7

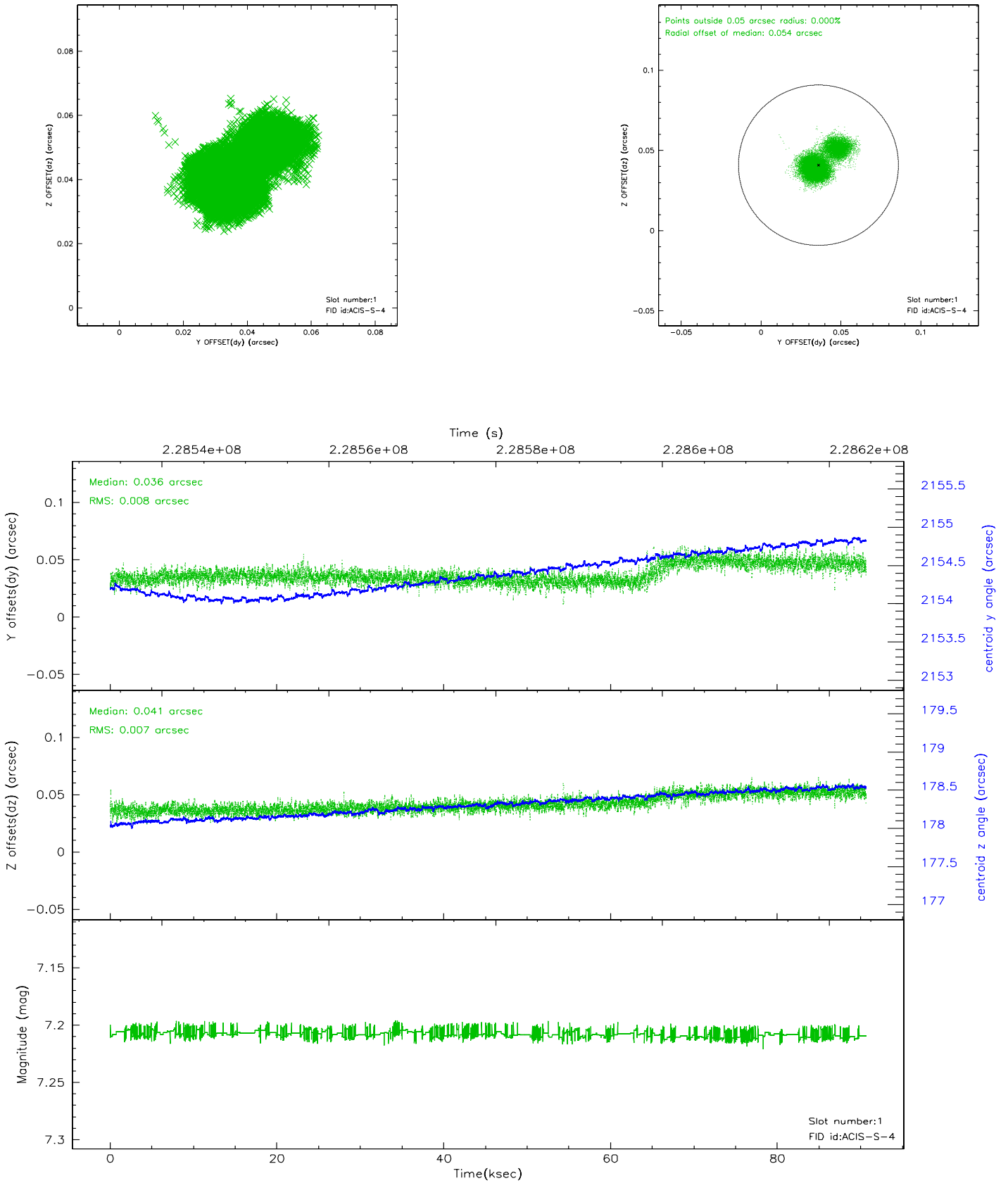


## 2.5 FID Slots

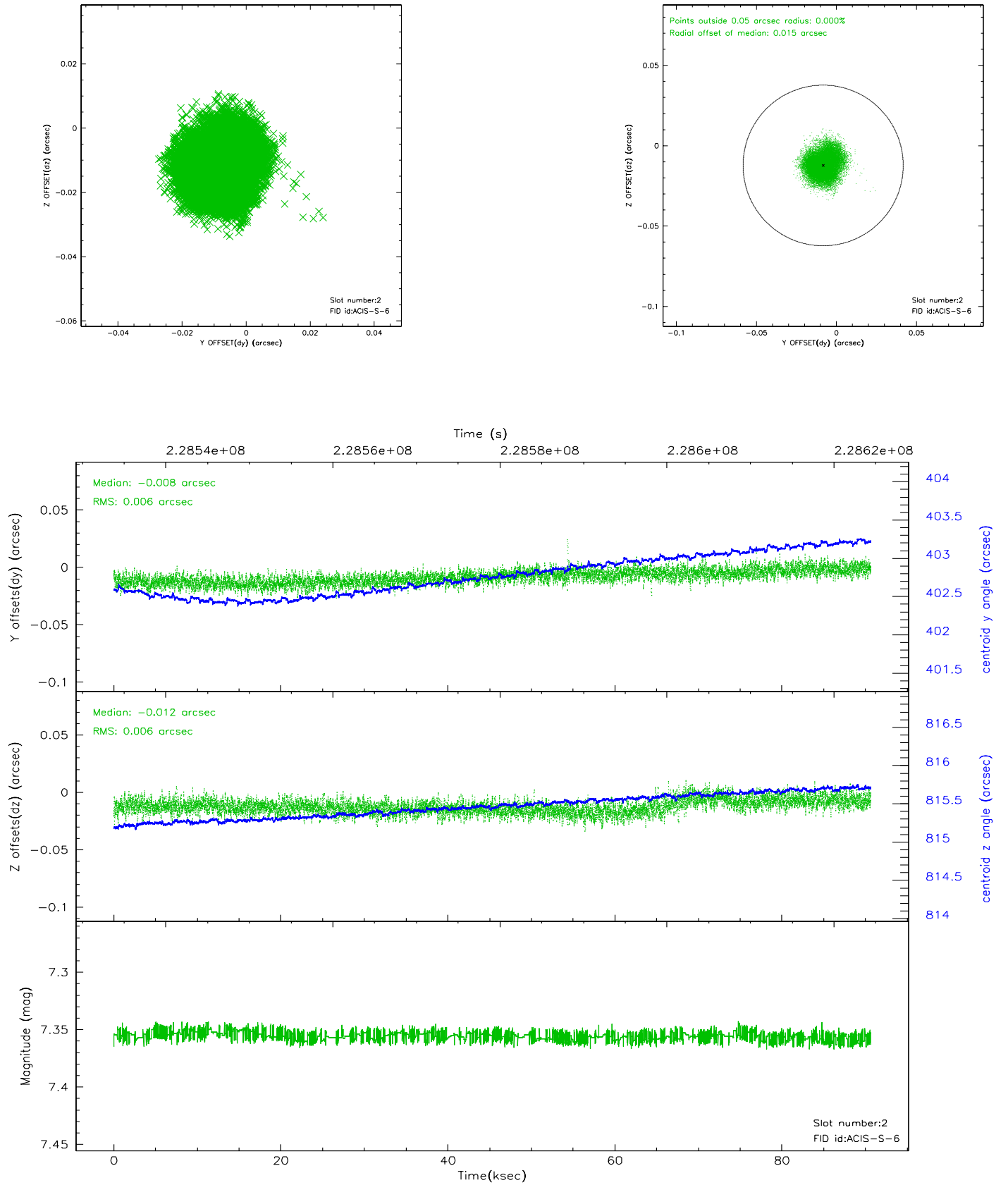
### 2.5.1 Slot 0



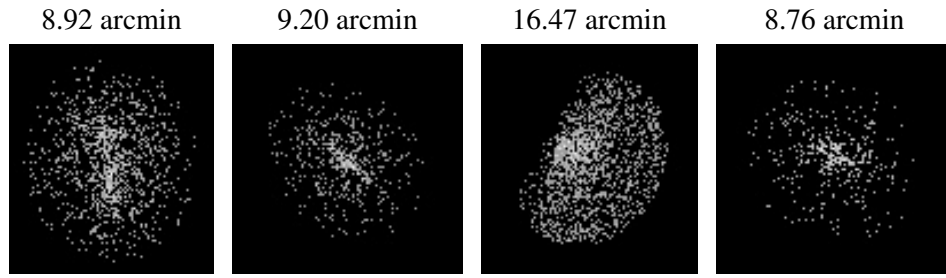
## 2.5.2 Slot 1



### 2.5.3 Slot 2



### 3 Point Sources



## A Summary

### A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2006.03.22
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	90.03949

### A.2 Comments