

V&V Reference Report

L2 ASCDS Version : 7.6.7

Observation 6097 - L2 Version 002
Chandra X-Ray Center

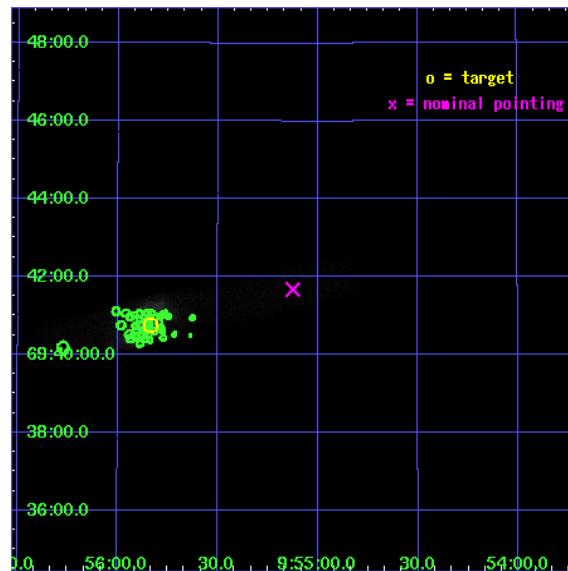
L2 Processing Date: Feb 21 2006

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1 Front

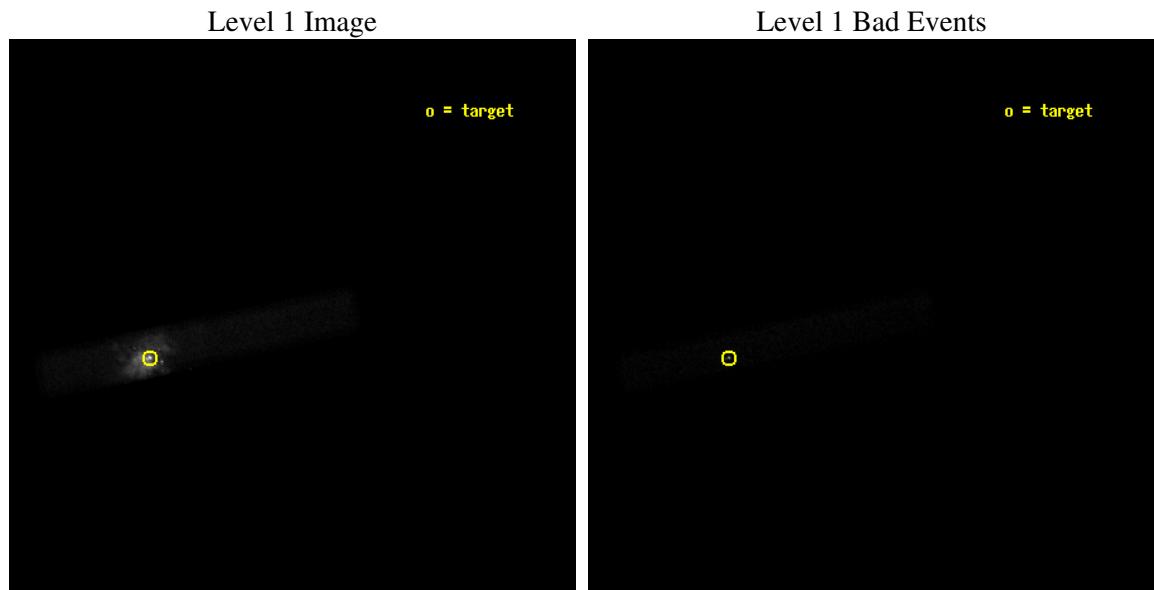
seq_num	600475
obs_id	6097
title	A State Transition of the Ultraluminous X-Ray Source in M82
observer	Prof. Philip Kaaret
object	M82 ULX
dtycycle	0
cycle	P
ra_targ	148.959167
dec_targ	69.679722
ra_nom	148.78135553357
dec_nom	69.69472526767
roll_nom	168.08531185279
revision	2
ontime	58188.000867069
livetime	52773.445371911
ontime7	58188.000867069
l2events	208811



2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0
ascdsver	7.6.7
caldbver	3.2.1
date	2006-02-21T23:25:01
revision	2

sched_exp_time	58000.000000
ontime	58576.599749088
ontime7	58576.599749088
l1events	258578

2.1.4 Events

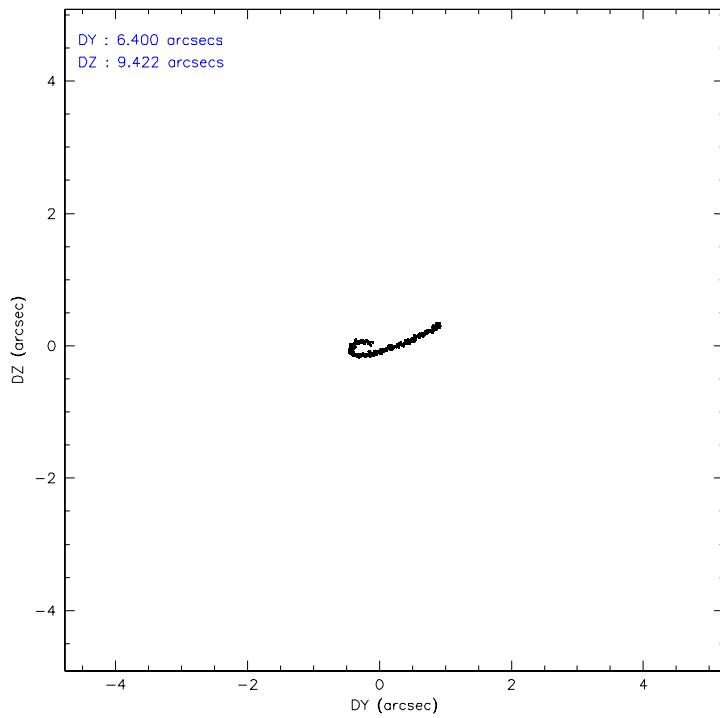
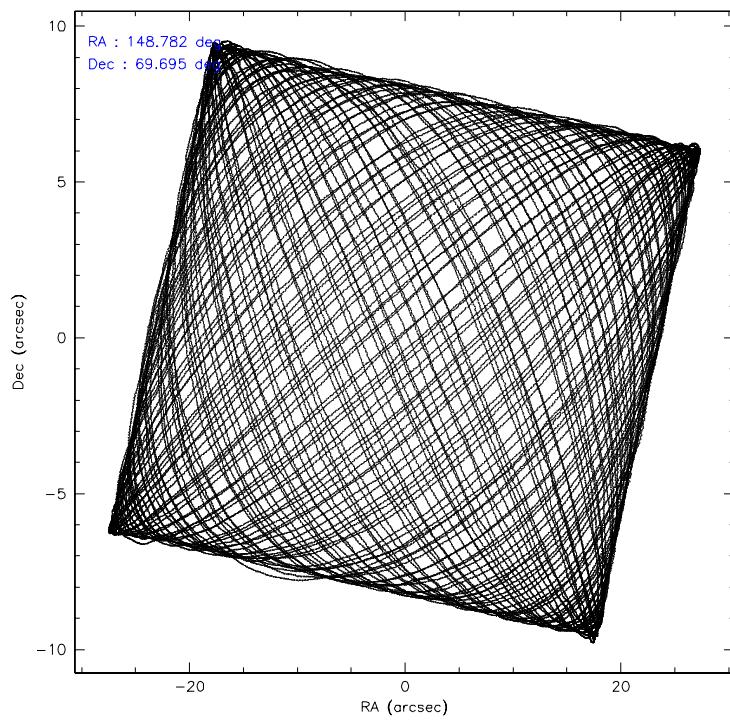
ccd 7	
level 1 events	258578
rejected events	48024
rejected %	18%

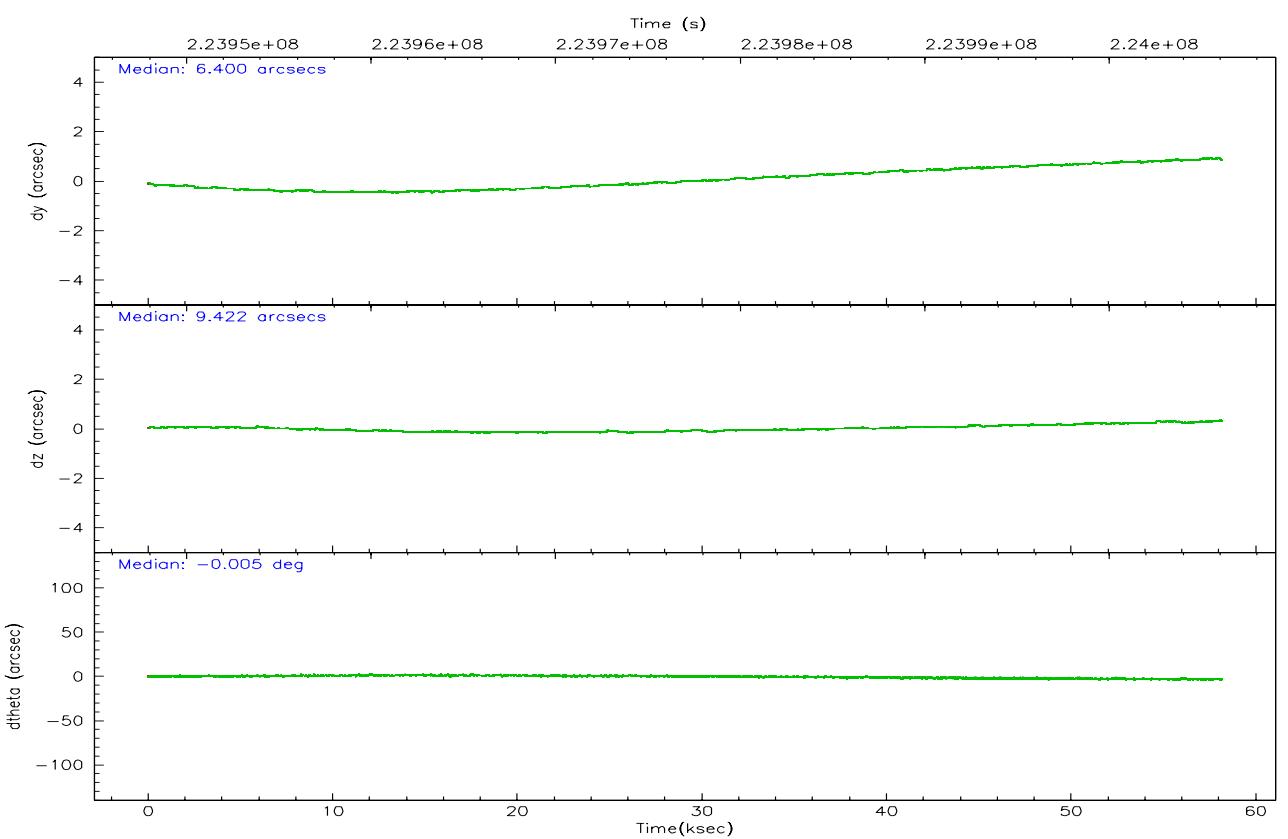
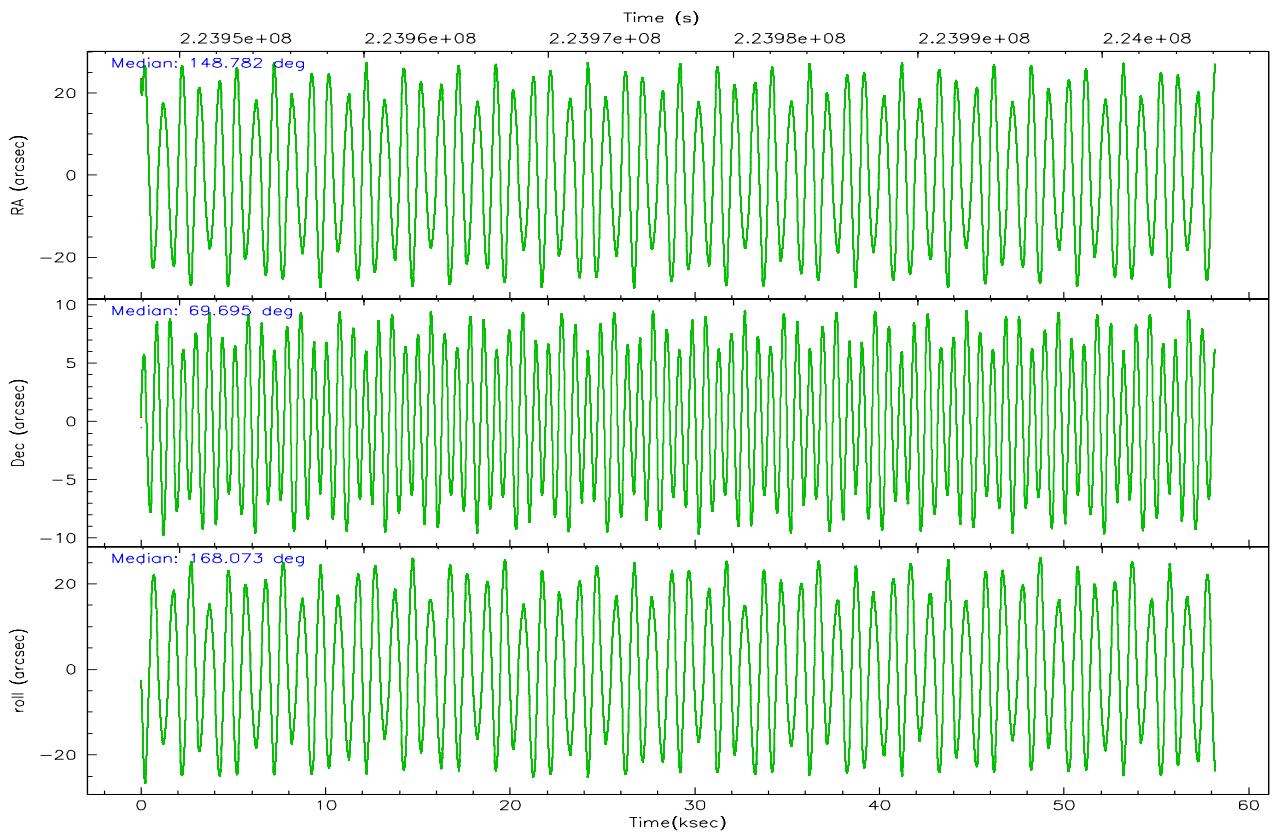
ccd 7	
grade 0 events	51058
	19%
grade 1 events	437
	0%
grade 2 events	56040
	21%
grade 3 events	22998
	8%
grade 4 events	23695
	9%
grade 5 events	7137
	2%
grade 6 events	57360
	22%
grade 7 events	39853
	15%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-7	ACIS-7	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	148.855569	148.7813555335705	Subarray start row	0	449
Pointing Dec	69.703504	69.69472526767041	Subarray row count	1024	128
Pointing Roll	167.859083	168.0853118527921	Alternating exposures requested	N	N
SIM focus pos (mm)	-0.684267	-0.6828225247311905	Primary exposure time	0.000000	0.4
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	223948108.184000	223947280.77341			
Observation start date	2005-02-04T23:47:24	2005-02-04T23:34:40			
Observation end time	224006108.184000	224006993.17611			
Observation end date	2005-02-05T15:54:04	2005-02-05T16:09:53			
Read mode	TIMED	TIMED			

2.3 Aspect





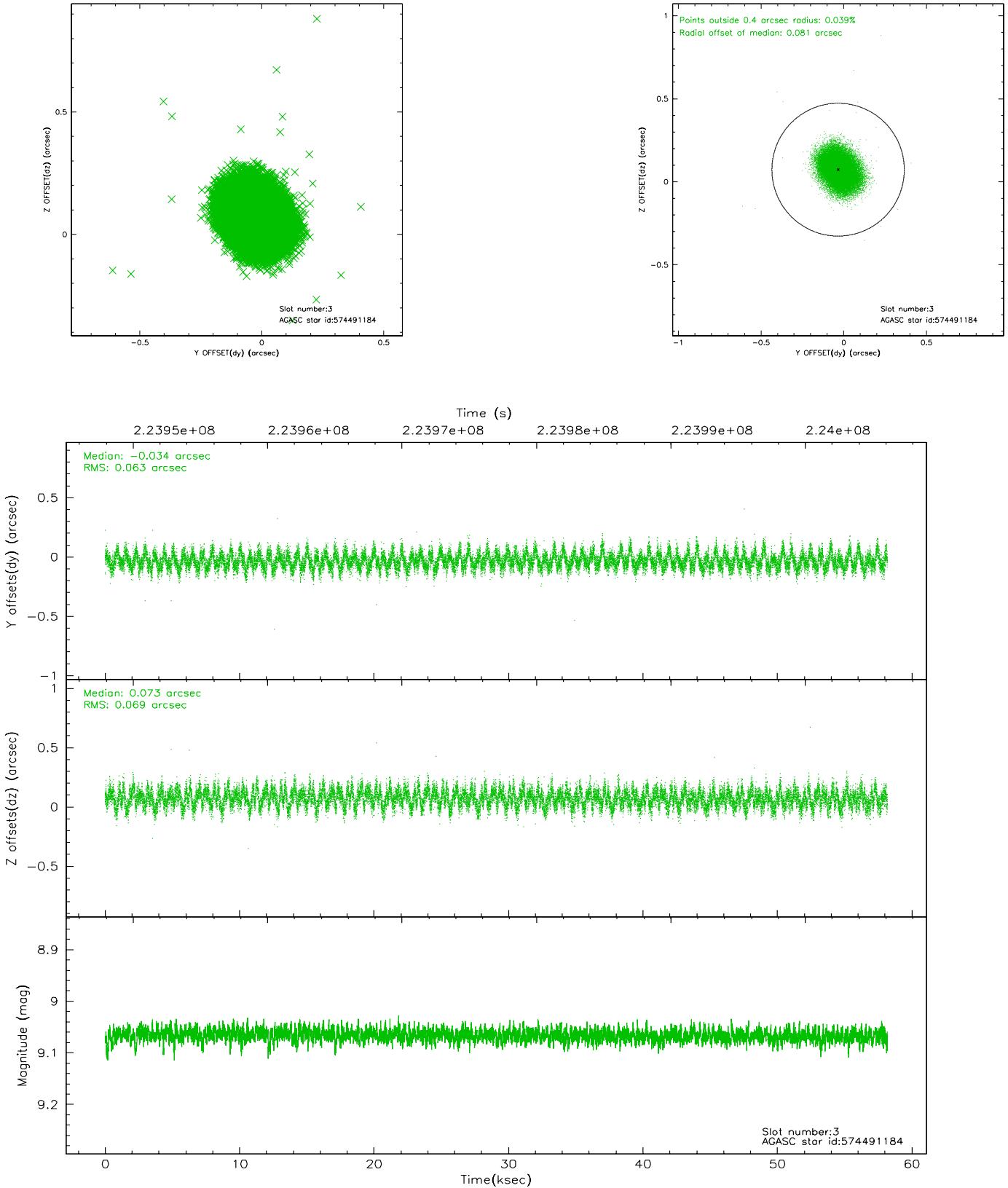
Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.19	14193	0.011	0.011	0.012	0.023	0.000000	0.000000	936.81	-1726.29
1	FID	ACIS-S-5	7.24	14193	-0.045	0.014	0.015	0.022	0.000000	0.000000	-1812.26	171.32
2	FID	ACIS-S-6	7.35	14192	0.012	-0.013	0.016	0.025	0.000000	0.000000	402.43	815.20
3	GUIDE	574491184	9.07	28371	-0.034	0.073	0.101	0.157	148.582453	69.768699	382.19	-158.38
4	GUIDE	574491280	9.33	28361	-0.052	0.058	0.090	0.150	148.611567	69.450135	110.26	956.84
5	GUIDE	574491872	9.28	28361	0.026	-0.135	0.083	0.139	147.207613	69.765453	2058.56	188.58
6	GUIDE	574885216	8.52	28306	0.032	0.066	0.091	0.156	147.834547	70.411352	1743.76	-2241.60
7	GUIDE	574886496	8.49	28377	0.028	-0.064	0.063	0.101	148.945563	70.041136	148.22	-1211.68

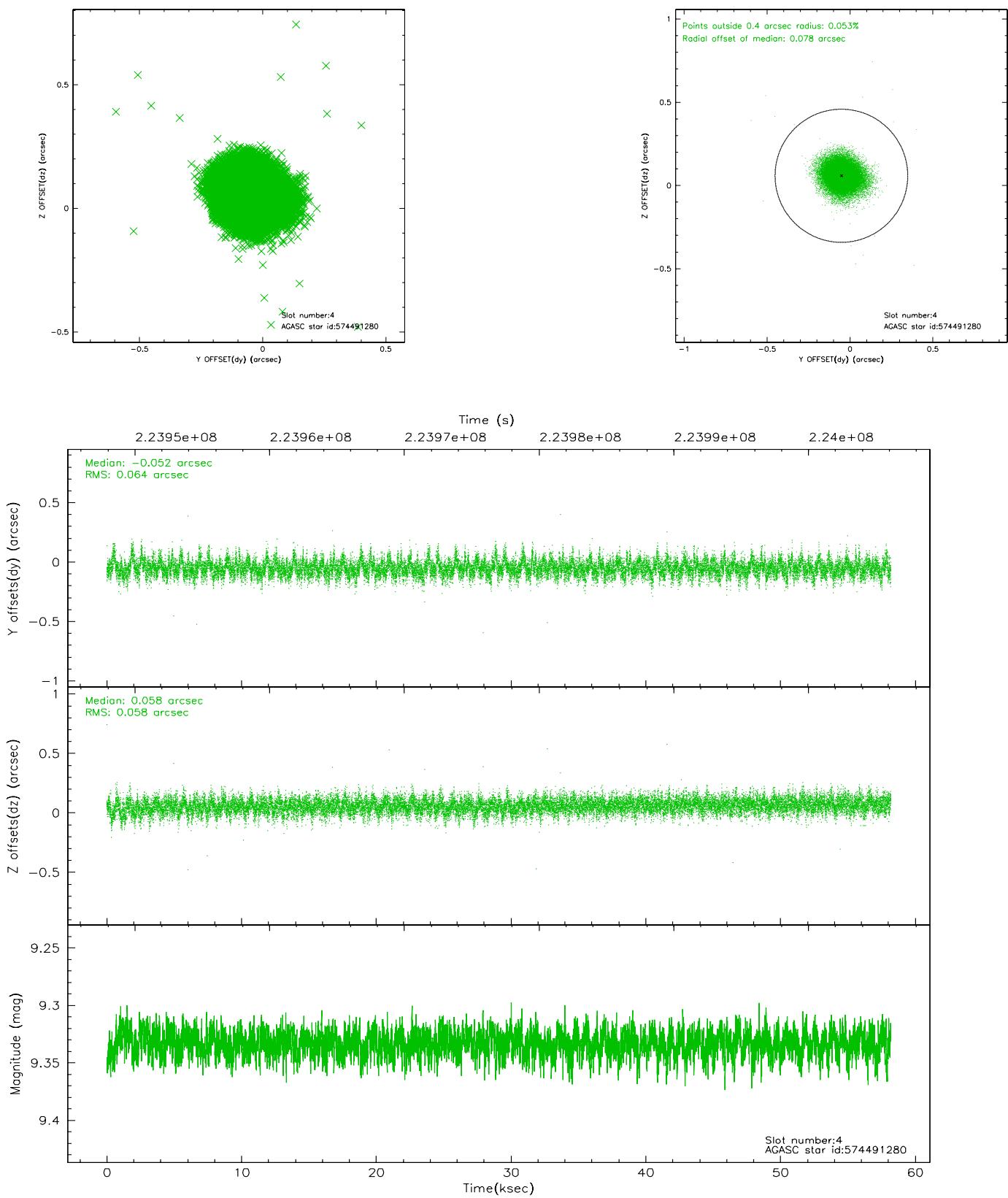
∞

2.4 Star Slots

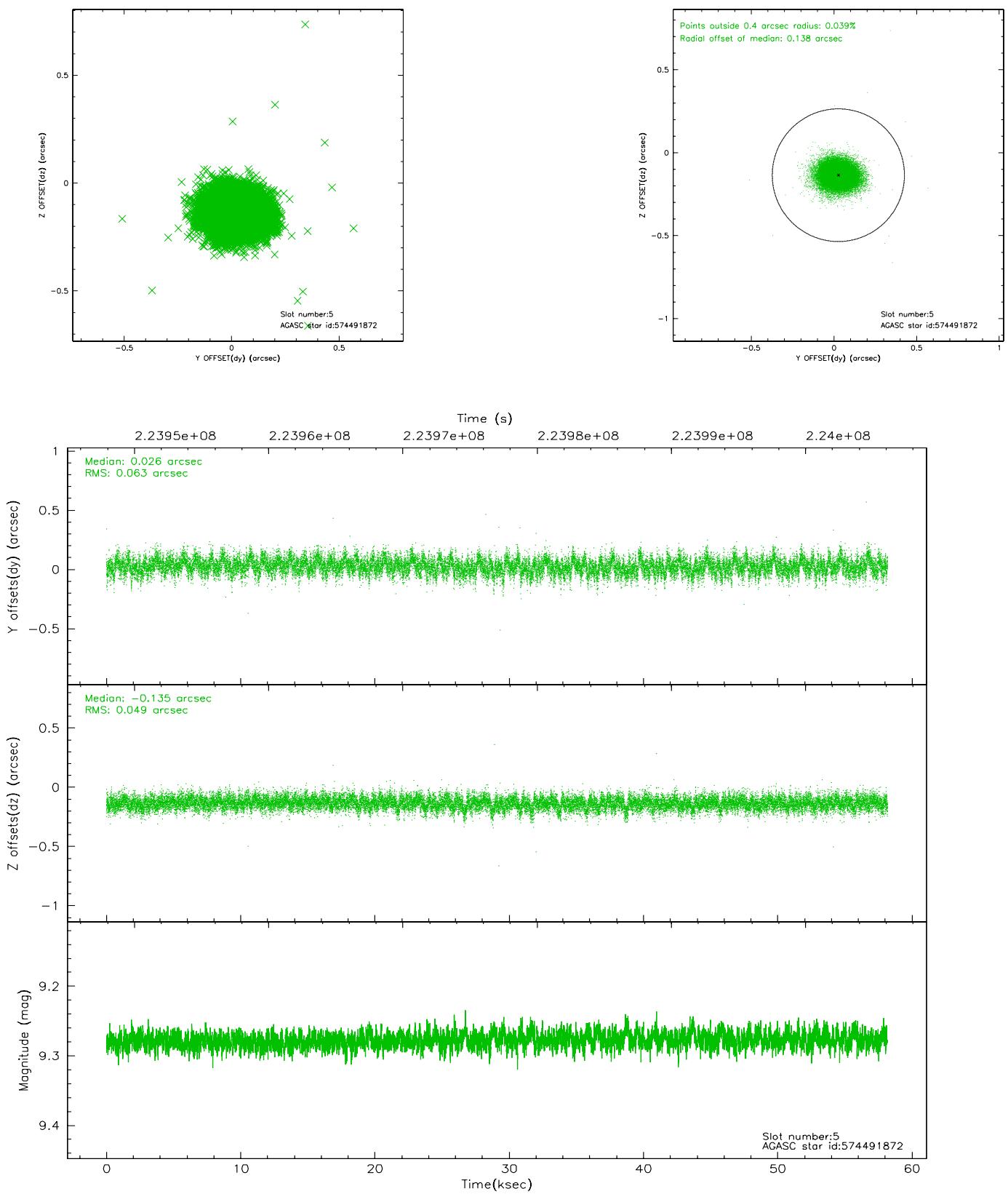
2.4.1 Slot 3



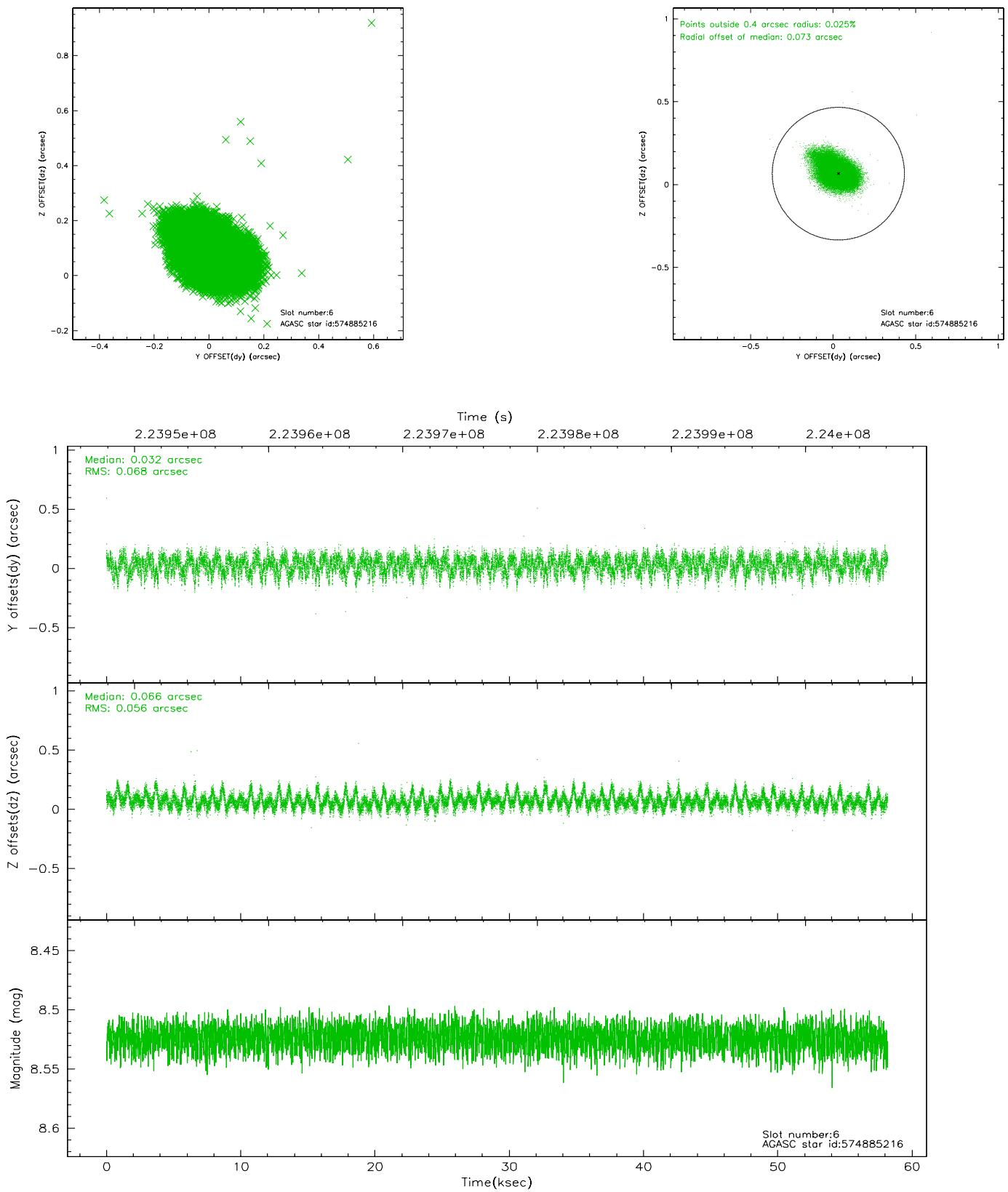
2.4.2 Slot 4



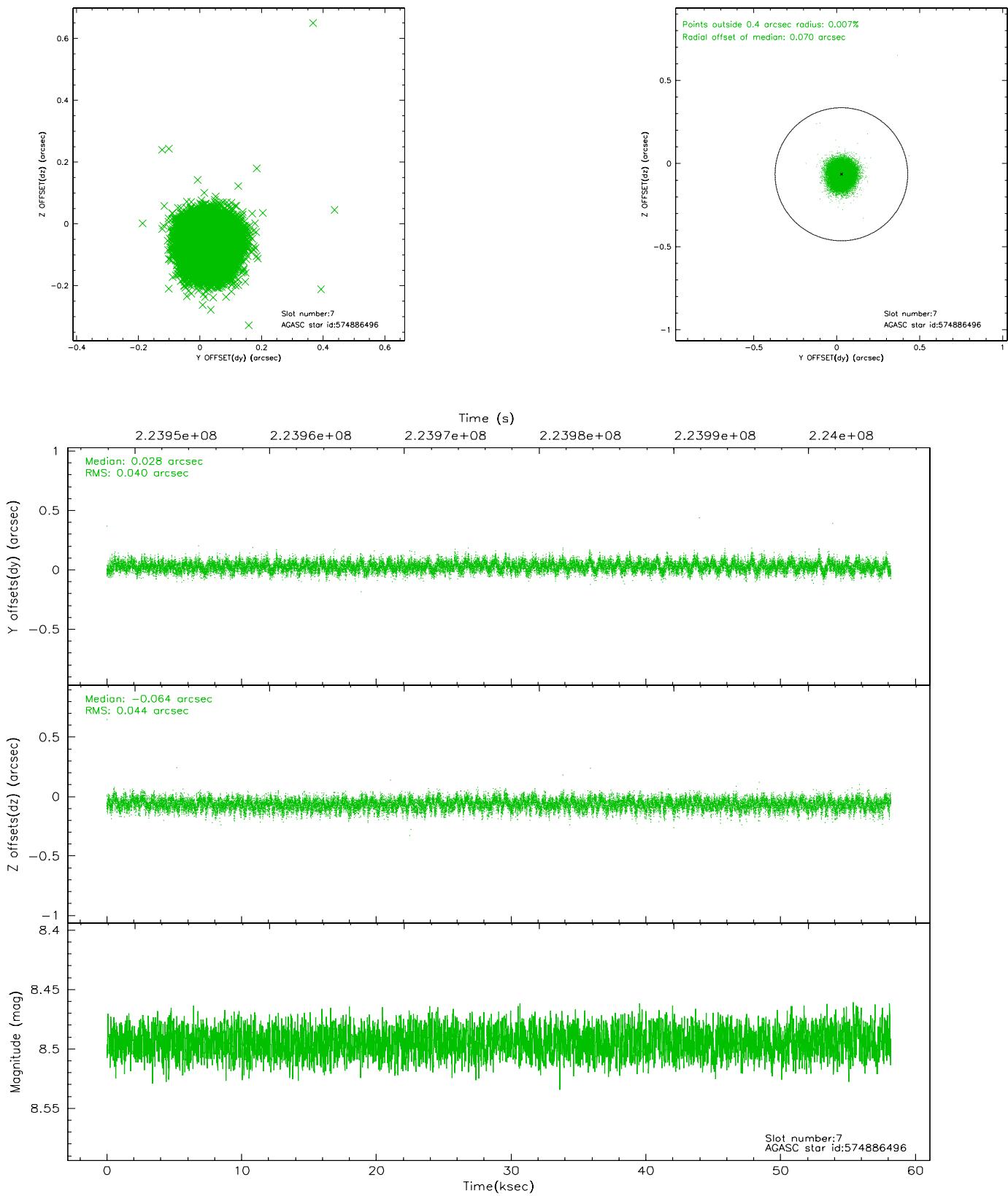
2.4.3 Slot 5



2.4.4 Slot 6

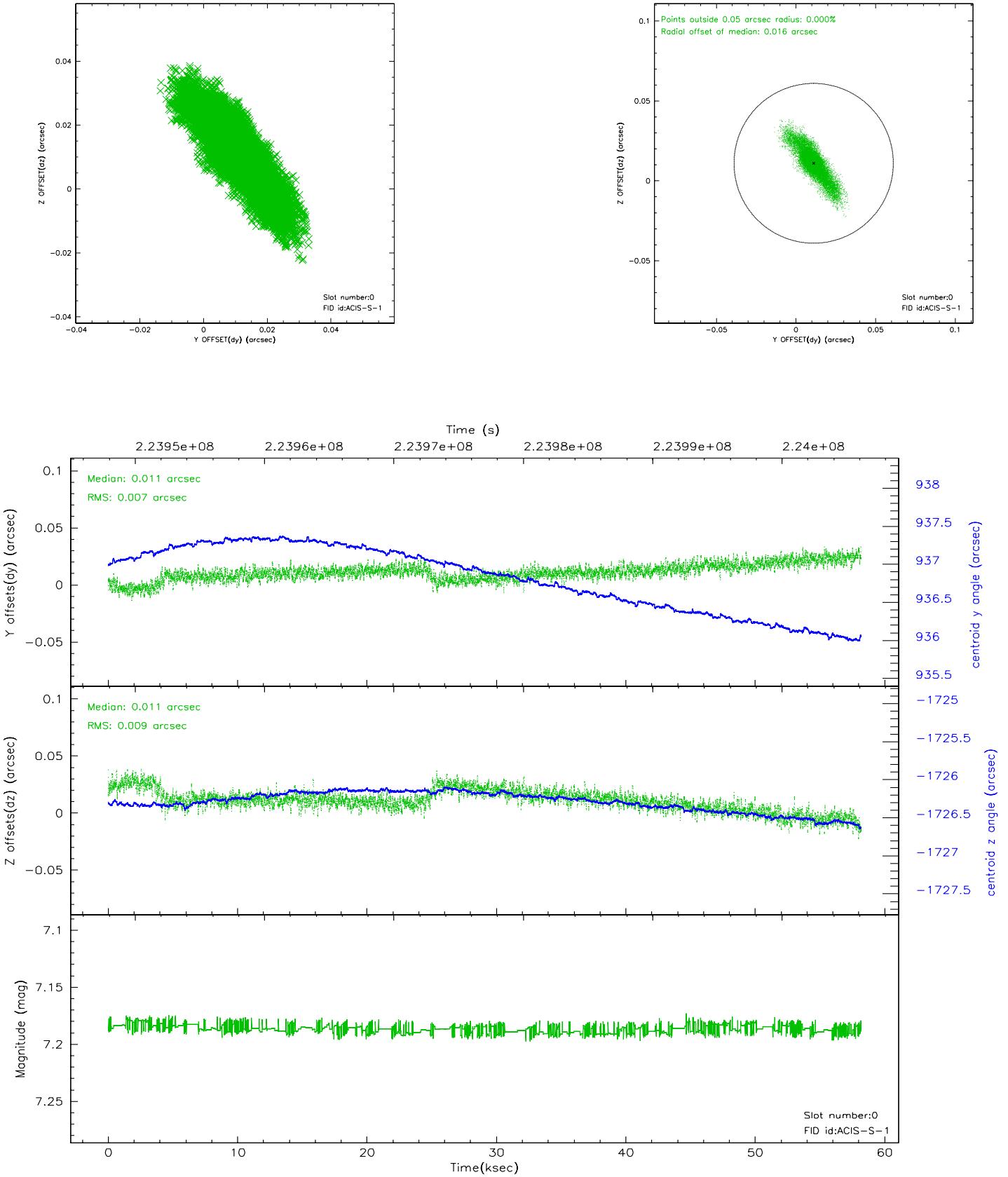


2.4.5 Slot 7

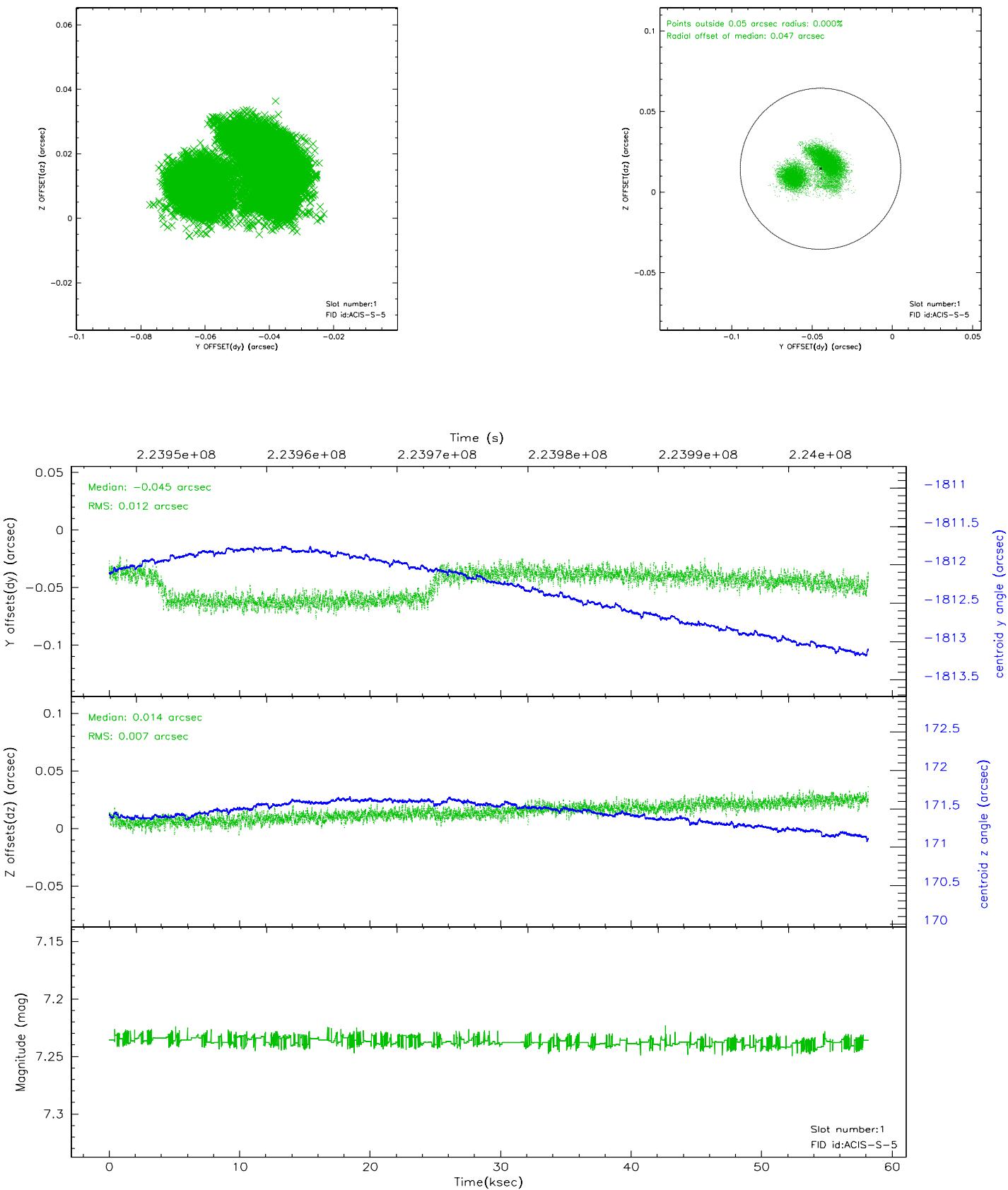


2.5 FID Slots

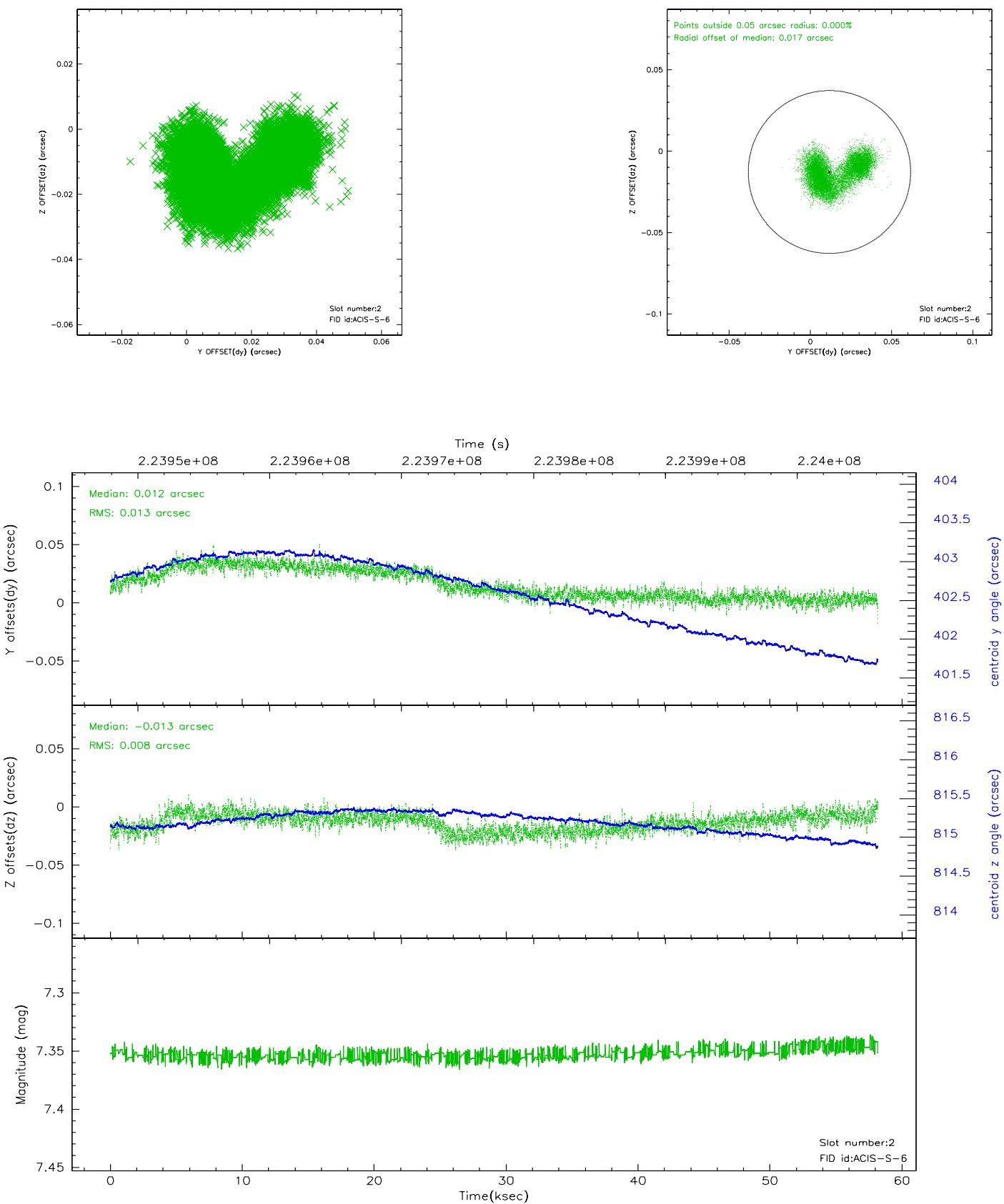
2.5.1 Slot 0



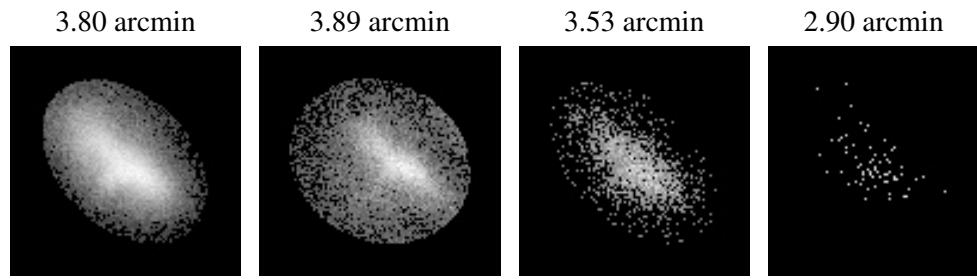
2.5.2 Slot 1



2.5.3 Slot 2



3 Point Sources



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2006.02.22
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	58.188

A.2 Comments

Requested target ra = 148.855 Nominal ra of observation is 148.78135
Observer requested ~4 arcmin offset from aim point in order to spread out the PSF and reduce pileup of the sources. The sources are elliptical in shape and were verified to be consistent with the off-axis PSF expected in this case.