

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 11851 - L2 Version 2
Chandra X-Ray Center

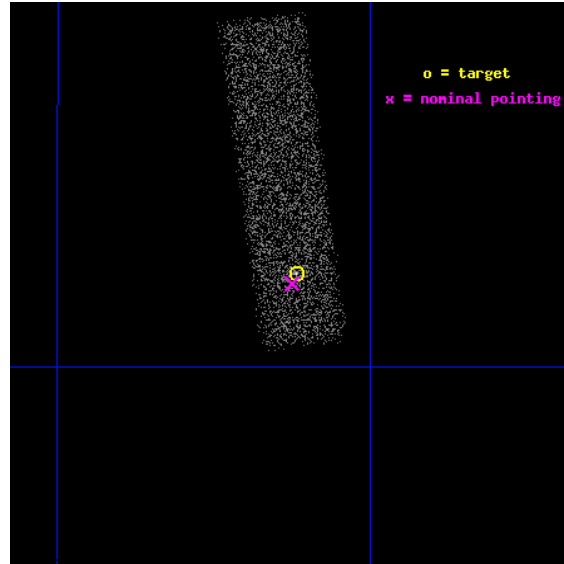
L2 Processing Date : Jun 29 2012

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

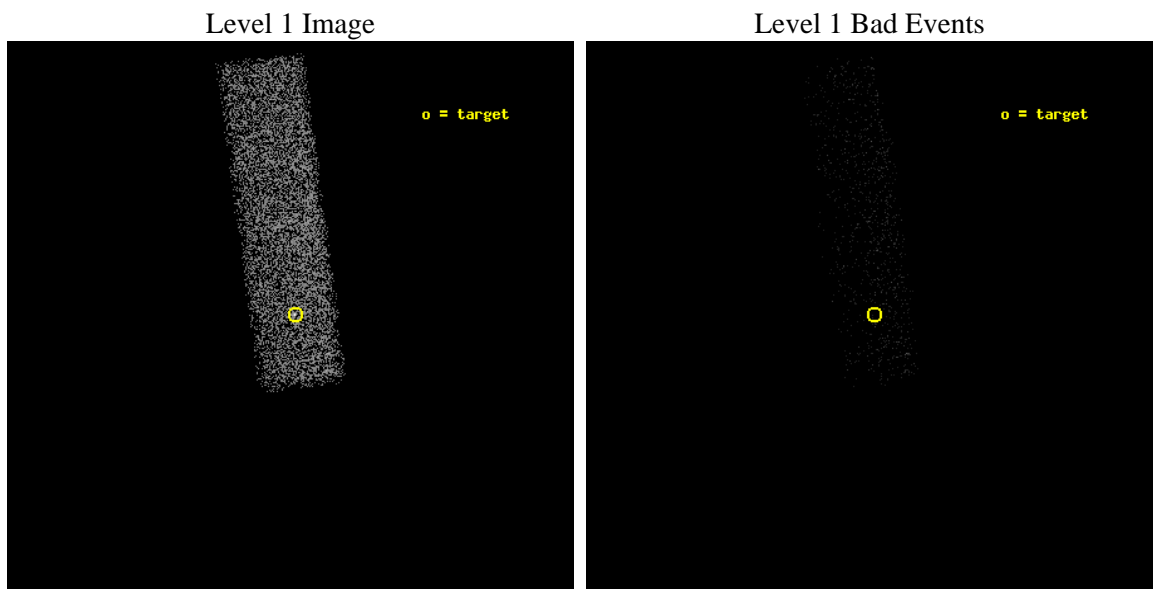
seq_num	702298	Sequence number
obs_id	11851	Observation id
title	A Survey of X-ray Variability in Bright Broad Absorption Line Quasars Over Multi-Year Timescales	Proposal title
observer	Professor Gordon Garmire	Principal investigator
object	Markarian 231	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	194.059167	Observer's specified target RA [deg]
dec_targ	56.873611	Observer's specified target Dec [deg]
ra_nom	194.0628789926	Nominal RA [deg]
dec_nom	56.86924475766	Nominal Dec [deg]
roll_nom	262.44805868486	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5027.2000749707	Sum of GTIs [s]
livetime	4781.8891610109	Livetime [s]
ontime7	5027.2000749707	Sum of GTIs [s]
l2events	5954	Number of level 2 events



2 OBI

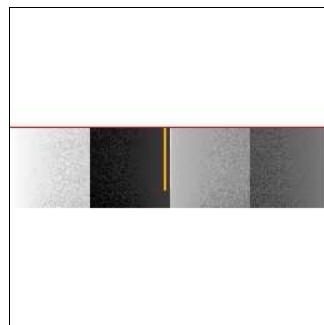
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	5027.2000749707	Sum of GTIs [s]
caldsver	4.5.0	 	ontime7	5027.2000749707	Sum of GTIs [s]
date	2012-06-30T00:22:54	Date and time of file creation	l1events	12025	Number of level 1 events
revision	2	Processing version of data			

2.1.4 Events

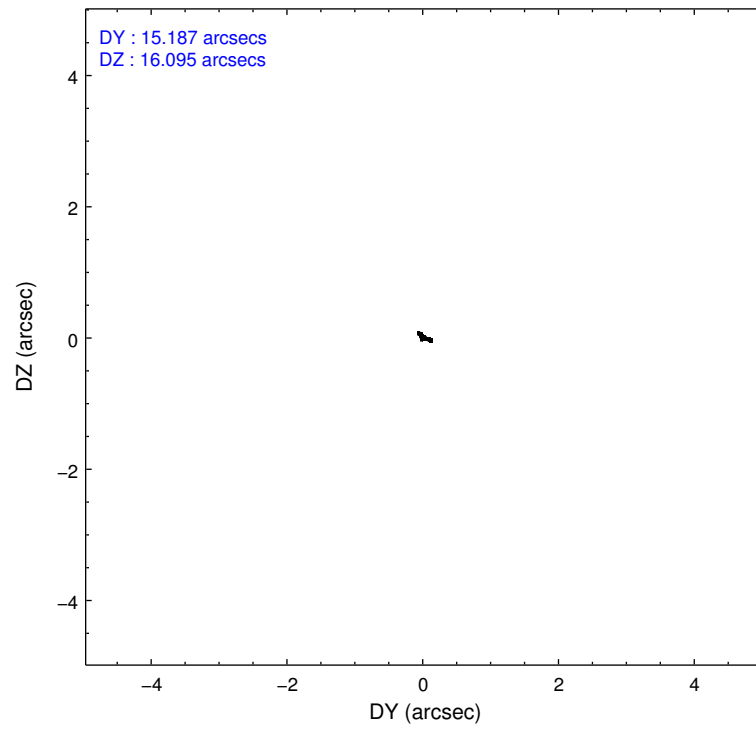
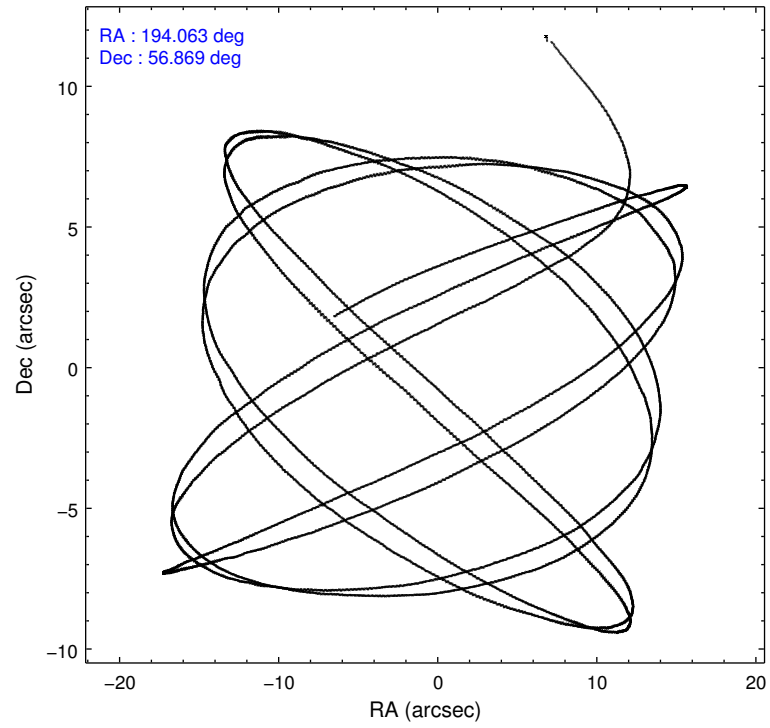
	ccd 7
level 1 events	12025
rejected events	5872
rejected %	48%

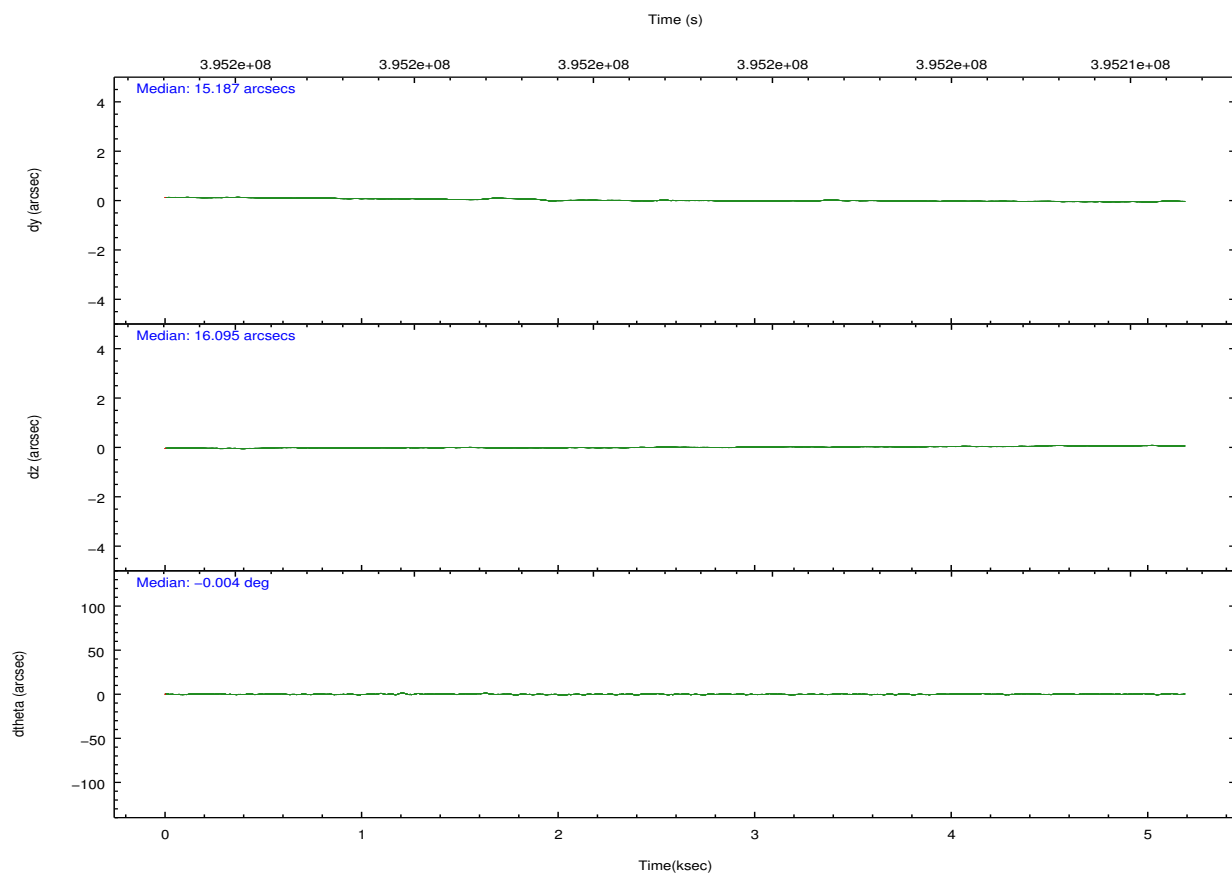
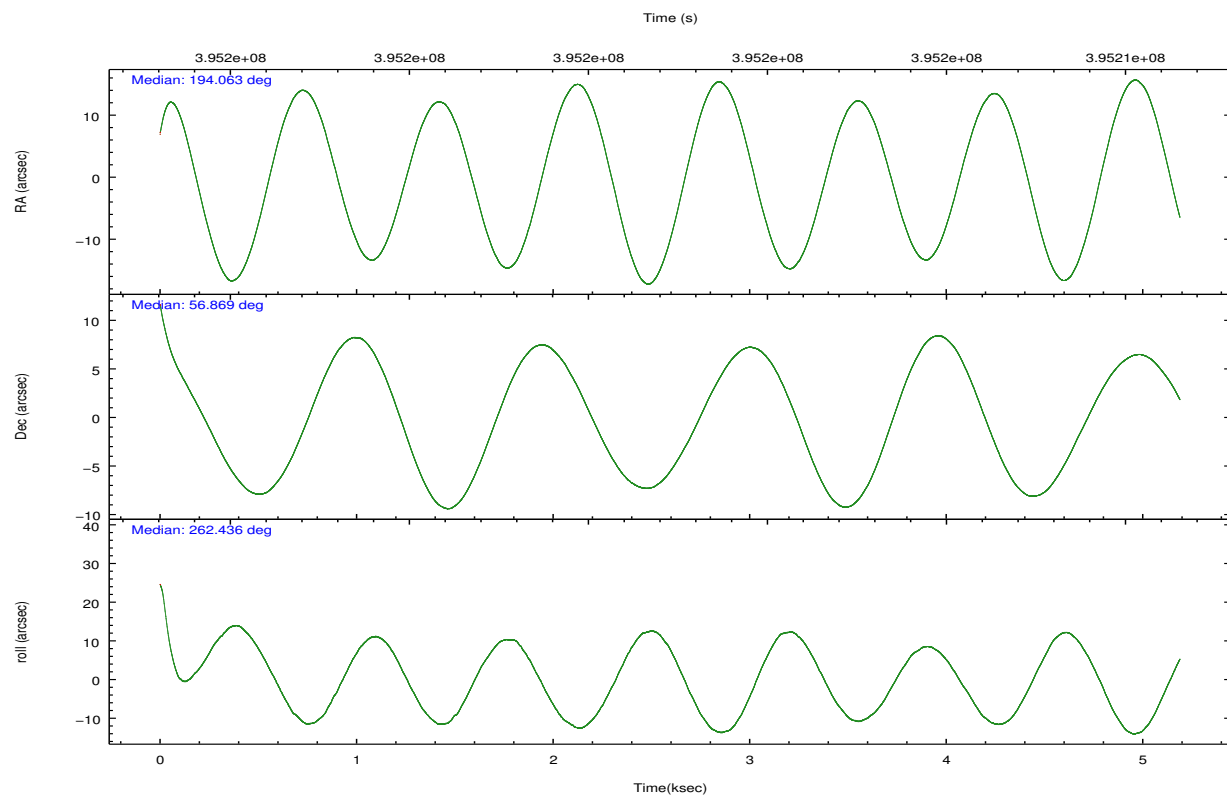
	ccd 7
grade 0 events	668
	5%
grade 1 events	17
	0%
grade 2 events	1302
	10%
grade 3 events	738
	6%
grade 4 events	695
	5%
grade 5 events	1262
	10%
grade 6 events	2750
	22%
grade 7 events	4593
	38%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-7	ACIS-7	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	194.043053	194.0628789926013	Subarray requested	CUSTOM	1/4
[deg] Pointing Dec	56.894317	56.86924475766047	Subarray start row	385	385
[deg] Pointing Roll	262.307993	262.448058684865	Subarray row count	256	256
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	0.8
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	395201053.184000	395200286.68806			
Observation start date	2010-07-11T02:03:07	2010-07-11T01:51:26			
[s] Observation end time (MET)	395206053.184000	395207501.15093			
Observation end date	2010-07-11T03:26:27	2010-07-11T03:51:41			
Read mode	TIMED	TIMED			

2.3 Aspect



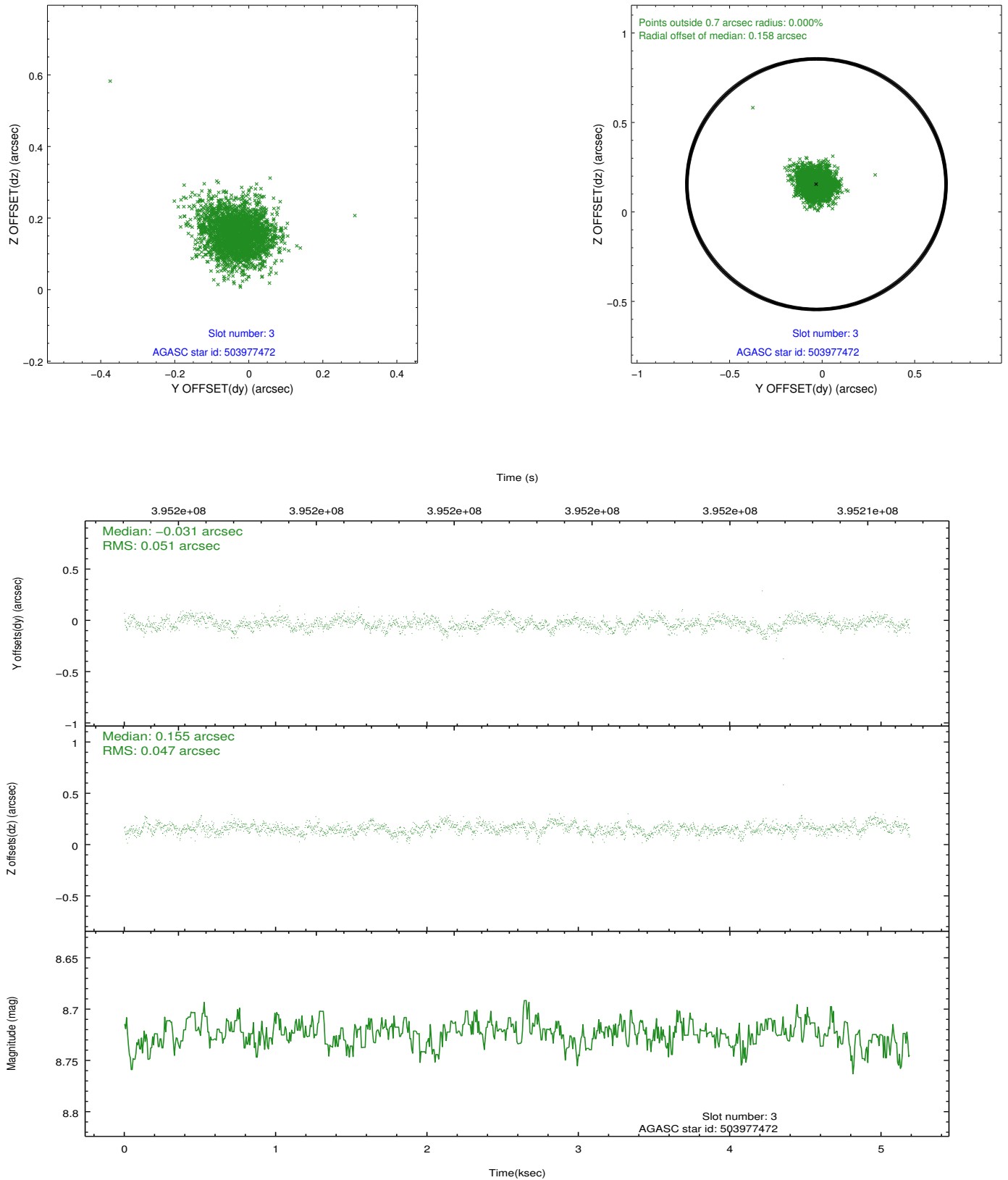


Slot Statistics

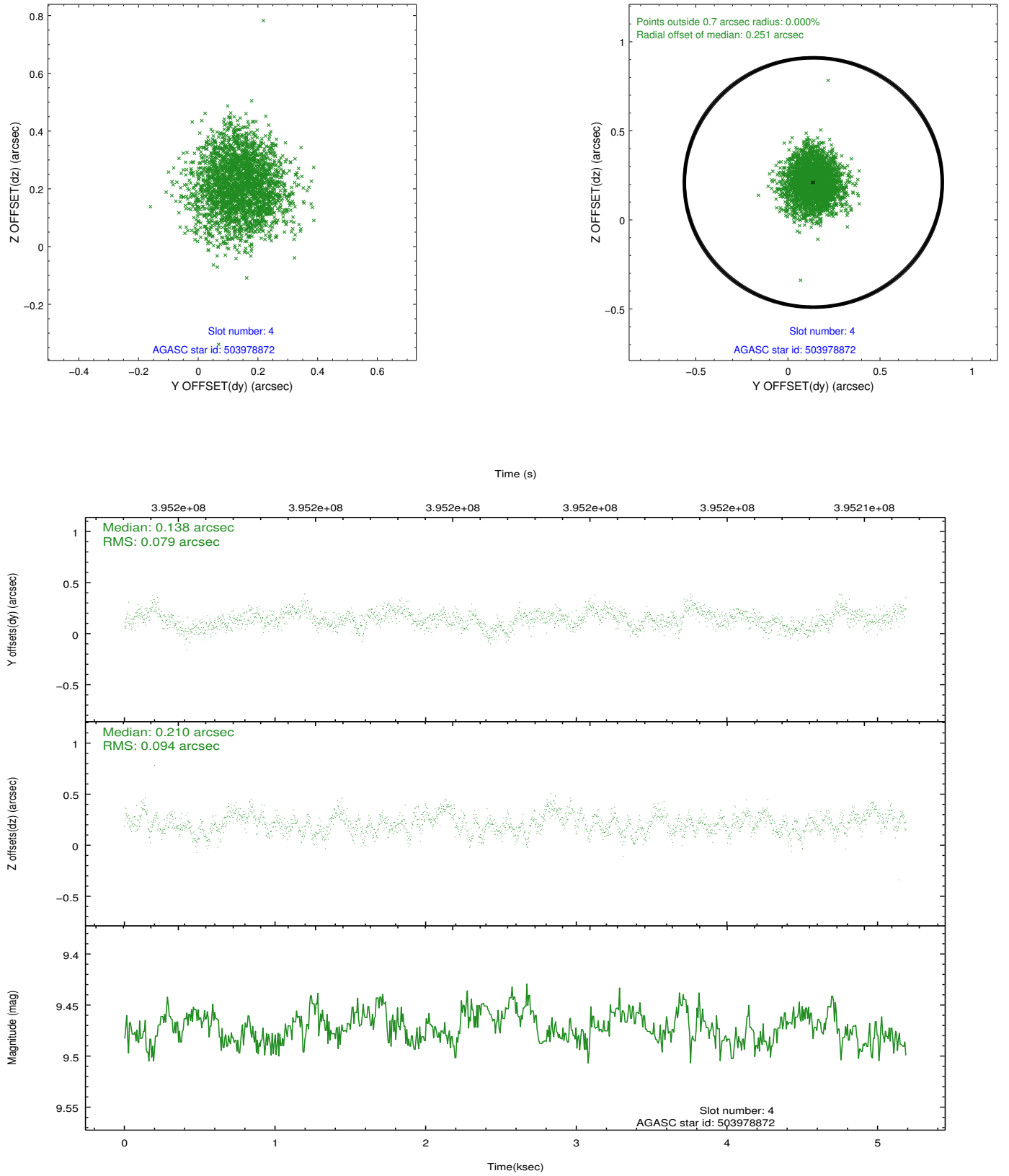
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.83	1266	-0.090	-0.015	0.007	0.010	0.000000	0.000000	-768.28	-1737.52
1	FID	ACIS-S-4	6.91	1265	0.198	0.048	0.005	0.010	0.000000	0.000000	2144.76	169.79
2	FID	ACIS-S-5	6.94	1266	-0.140	-0.023	0.006	0.010	0.000000	0.000000	-1819.67	164.75
3	GUIDE	503977472	8.72	2531	-0.031	0.155	0.072	0.120	193.107383	56.634174	1164.49	-1711.93
4	GUIDE	503978872	9.47	2526	0.138	0.210	0.132	0.207	193.810866	57.011691	-357.13	-508.73
5	GUIDE	503979408	7.74	2530	-0.138	0.103	0.082	0.126	193.466022	56.819966	413.25	-1091.56
6	GUIDE	503979936	8.60	2530	-0.212	-0.052	0.087	0.137	194.419806	56.566429	1068.11	897.91
7	GUIDE	503980496	9.70	2513	0.250	-0.400	0.141	0.238	194.652132	56.943955	-341.40	1160.36

2.4 Star Slots

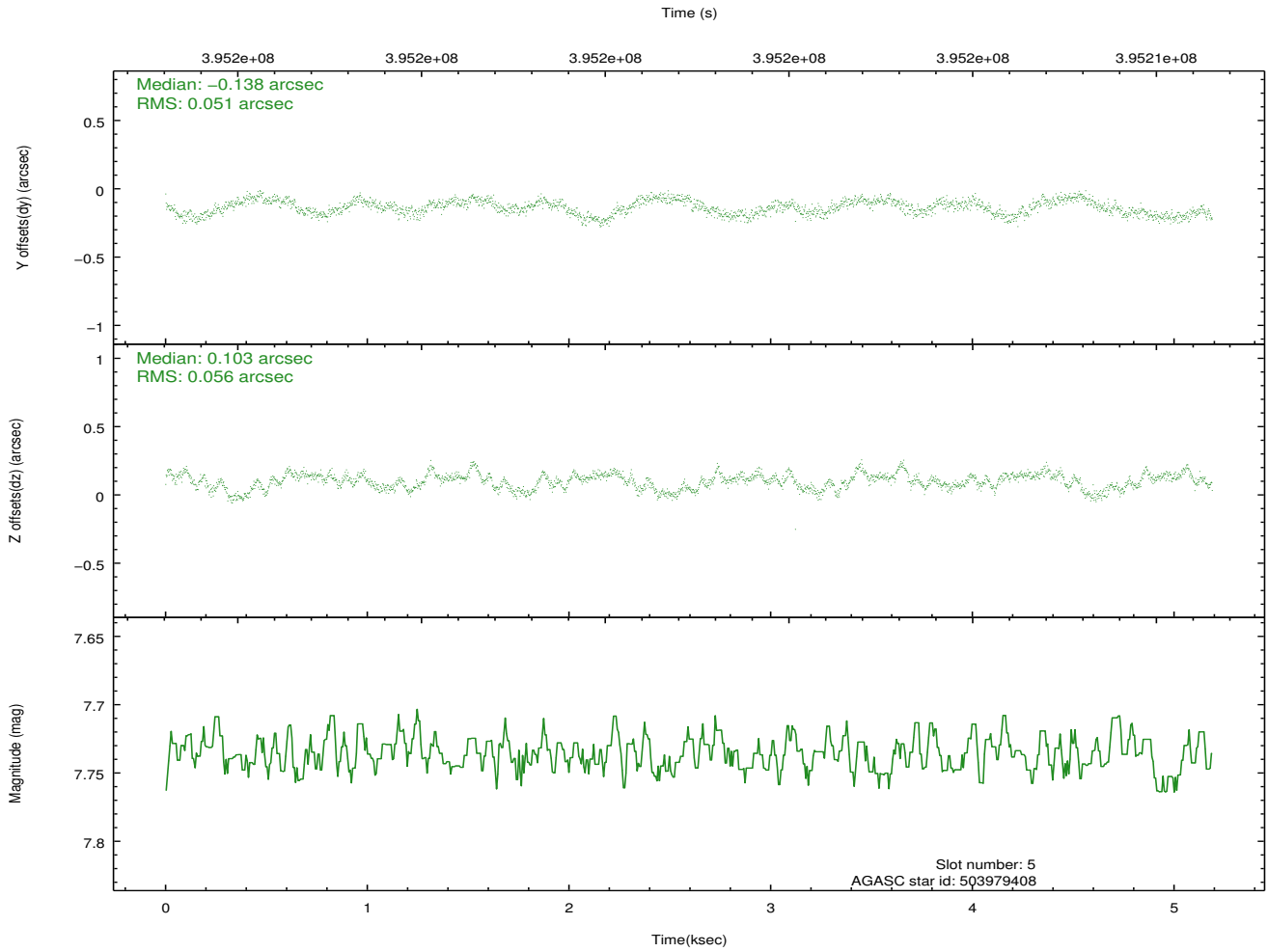
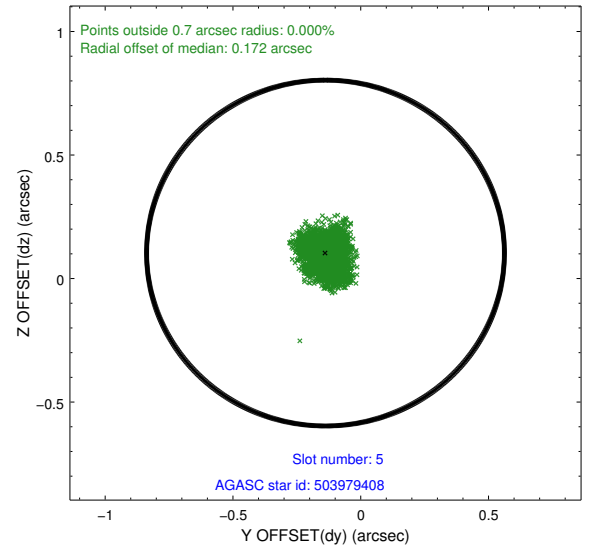
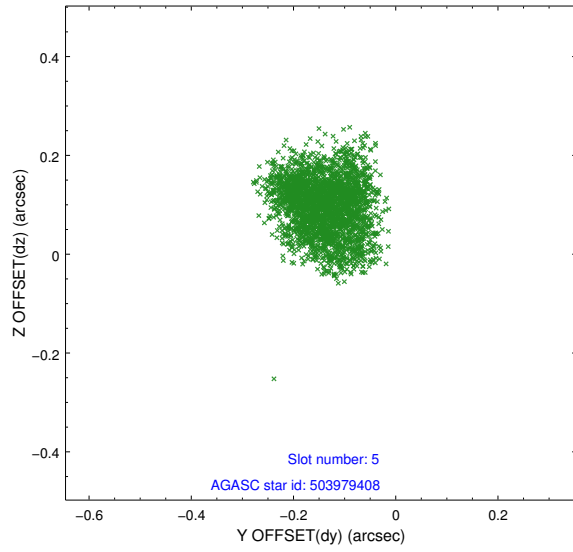
2.4.1 Slot 3



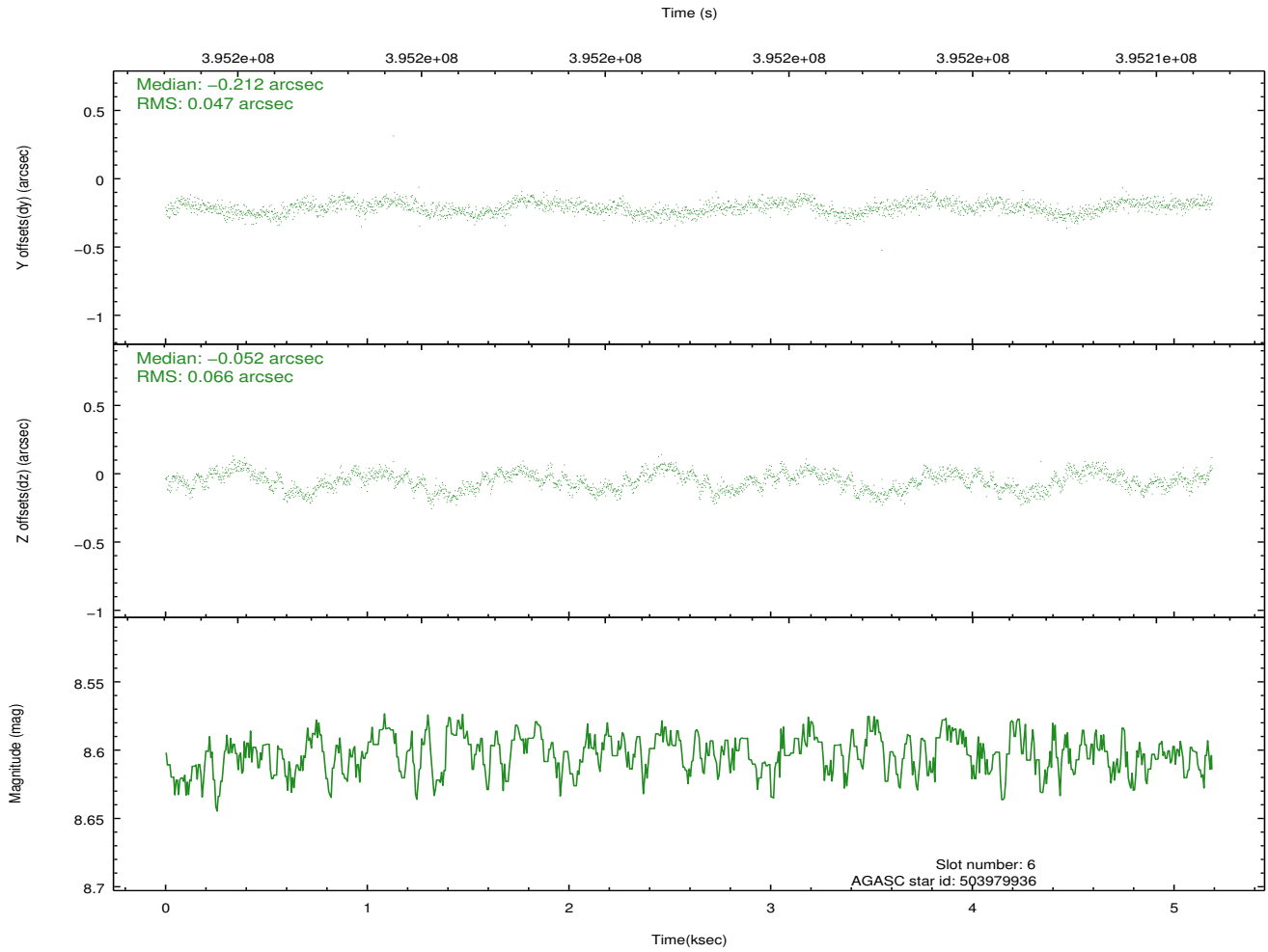
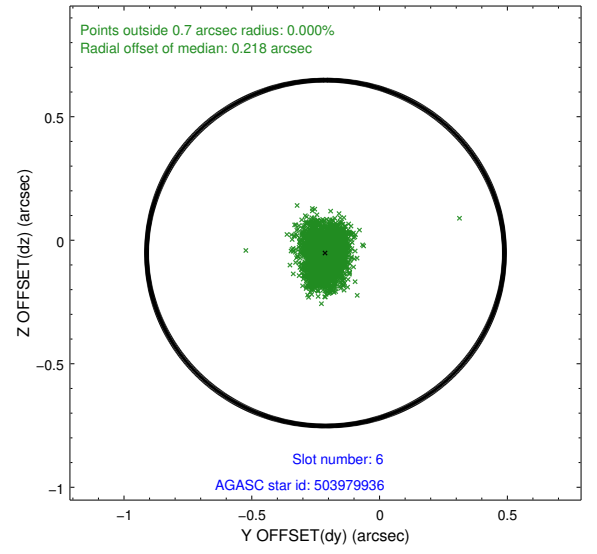
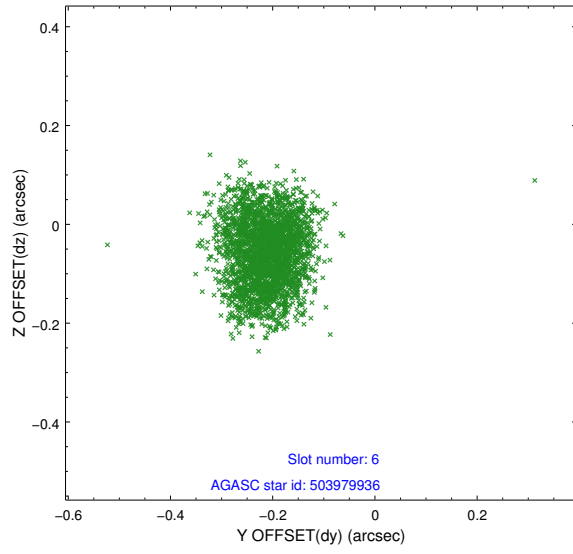
2.4.2 Slot 4



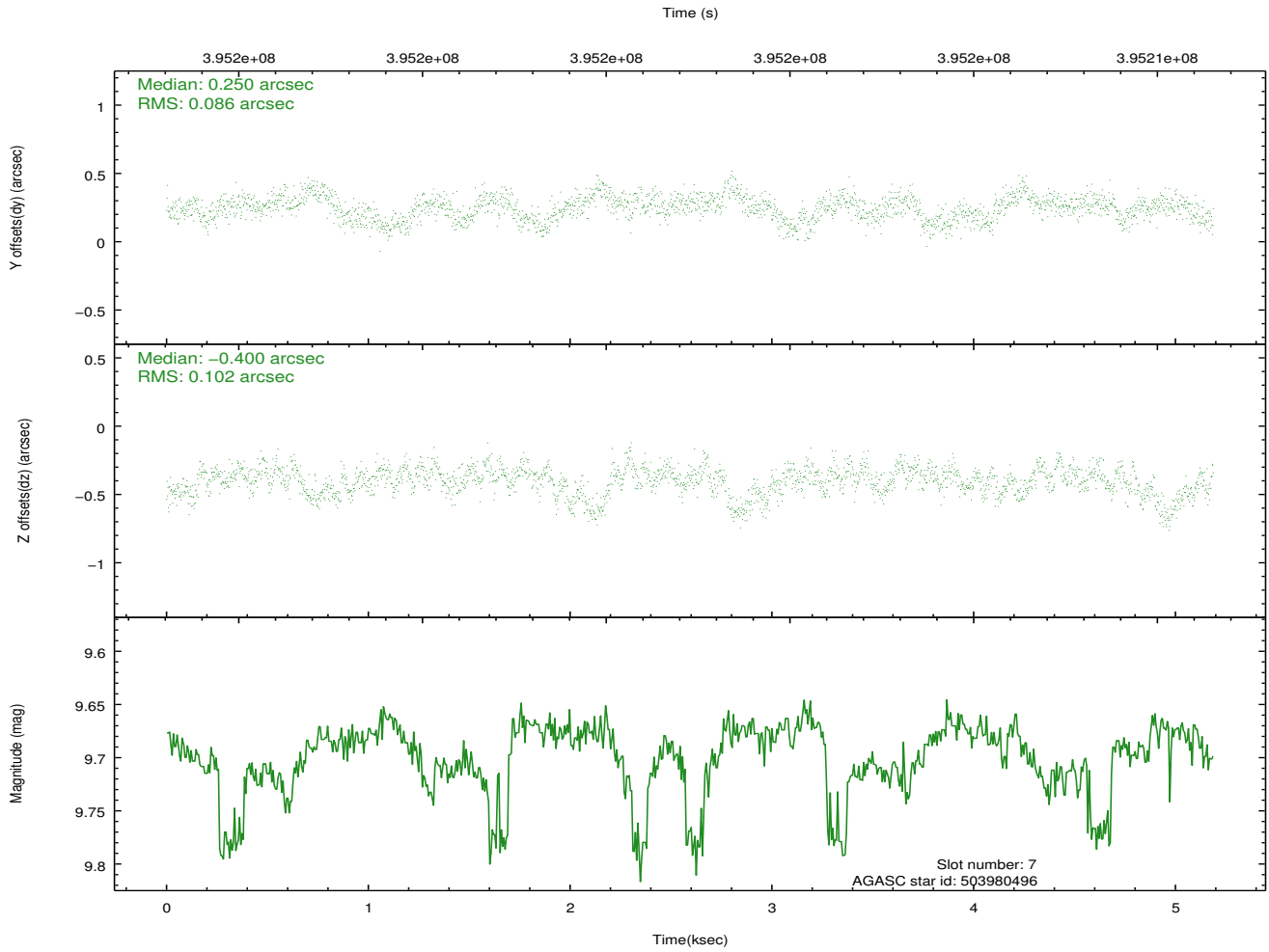
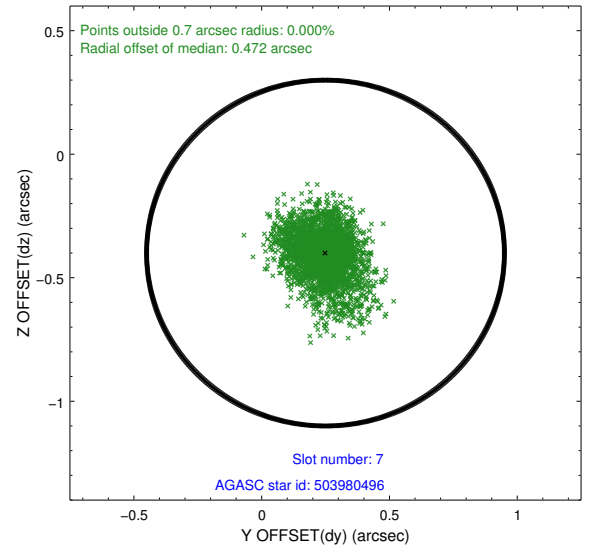
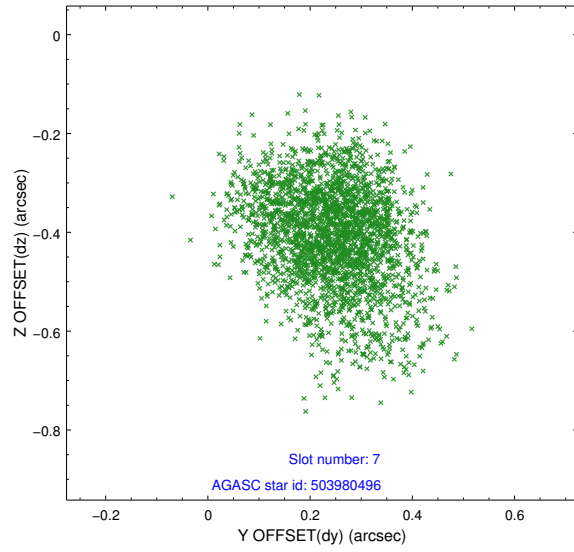
2.4.3 Slot 5



2.4.4 Slot 6

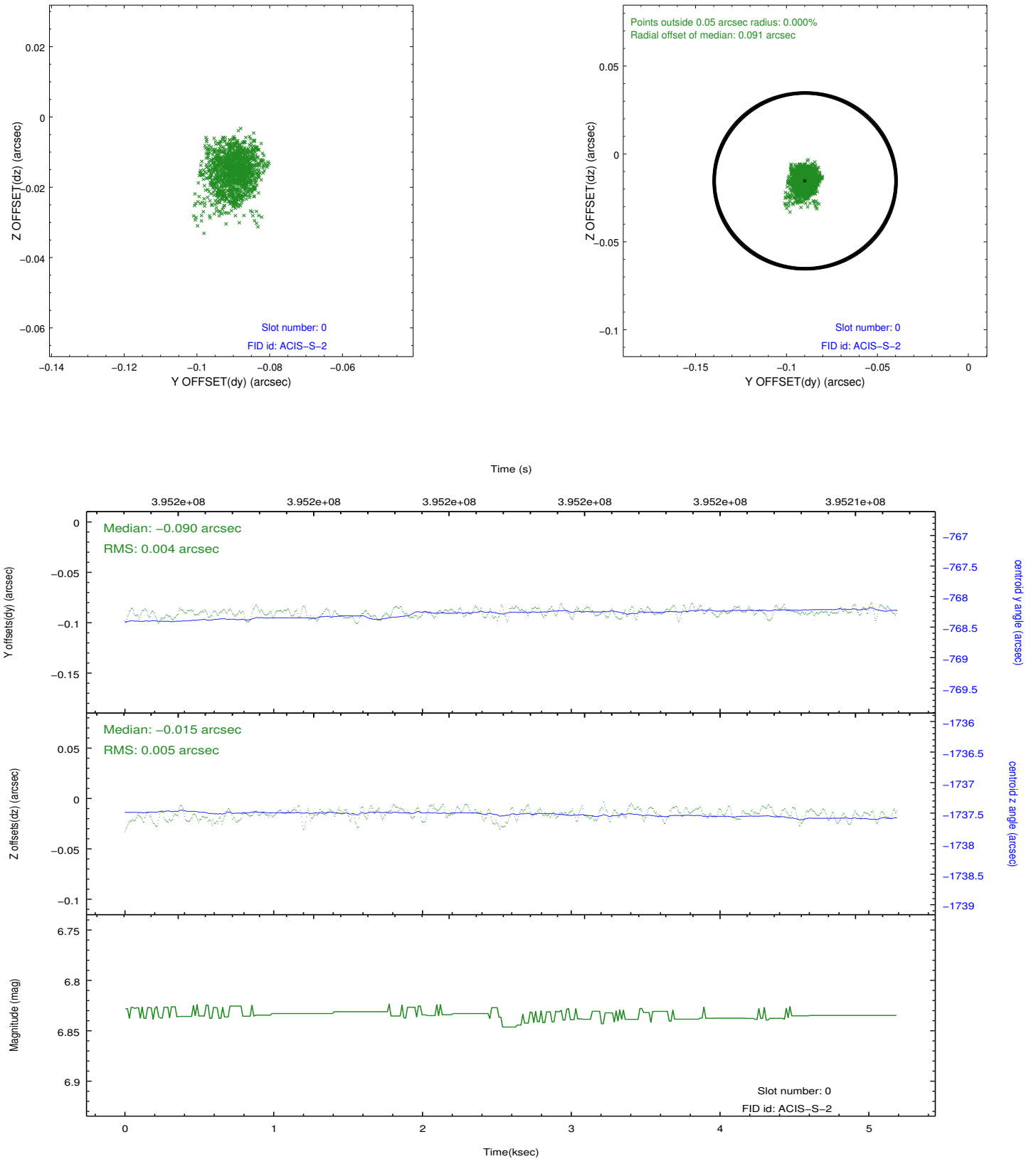


2.4.5 Slot 7

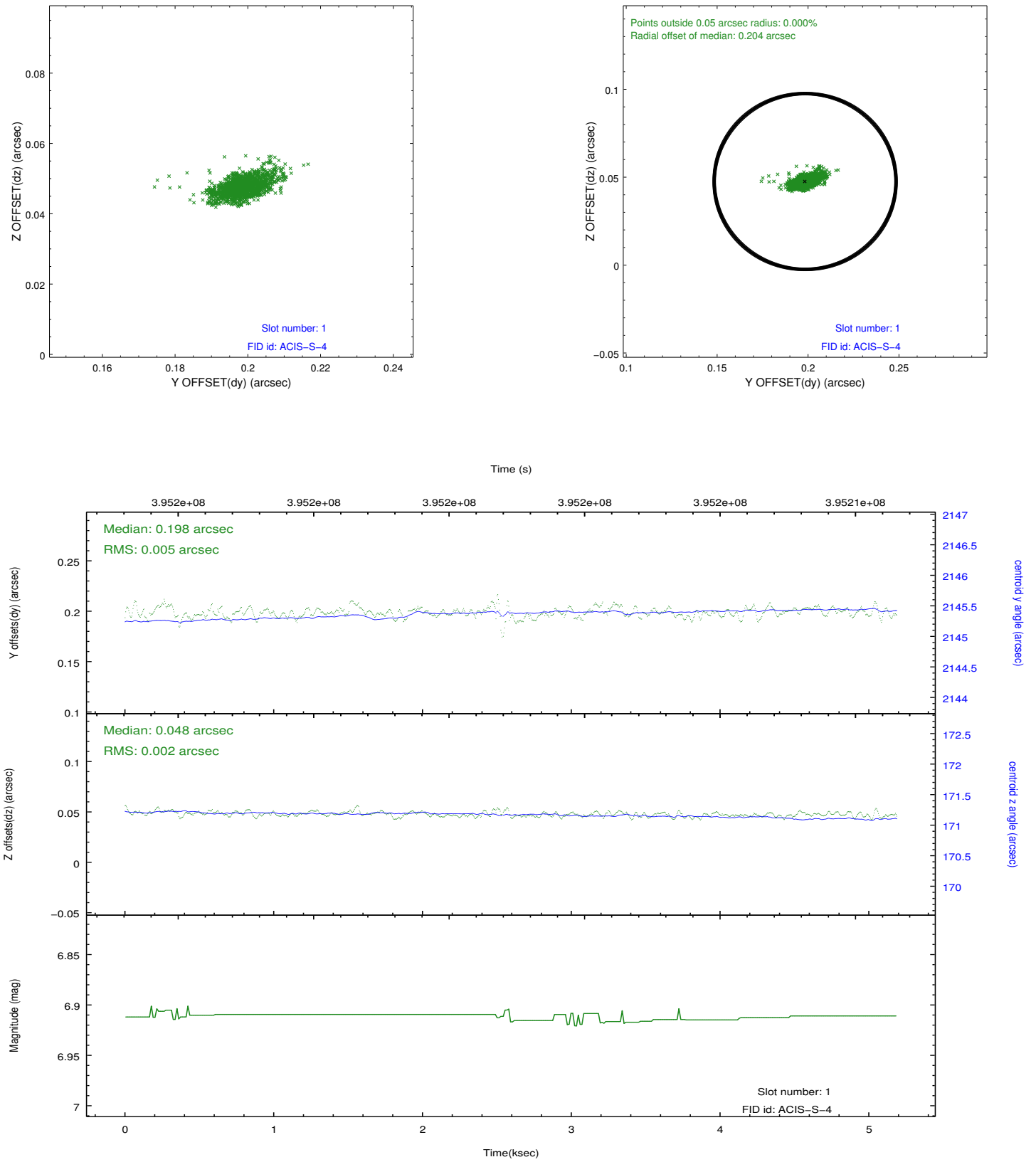


2.5 FID Slots

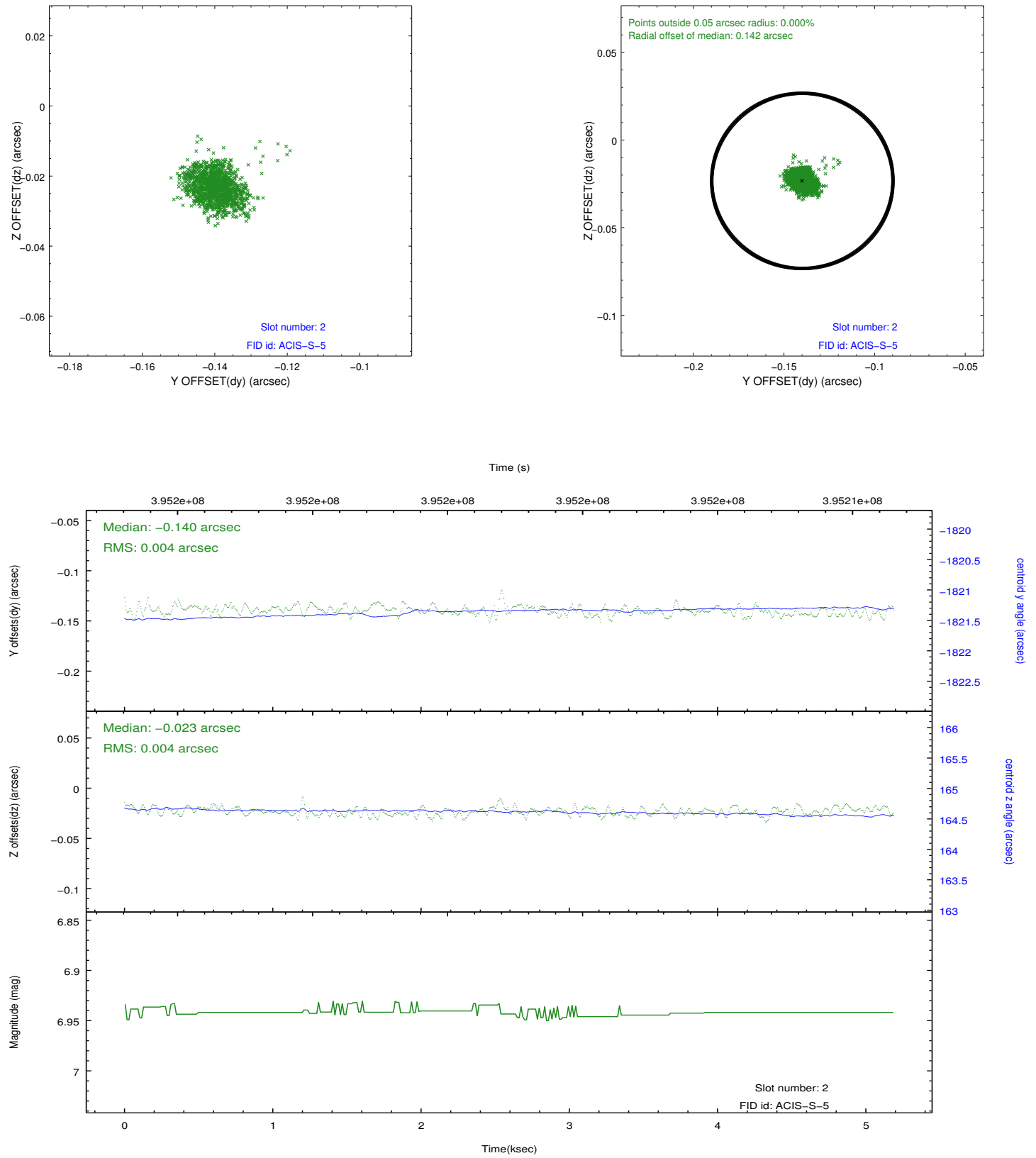
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.07.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.0272000749707

A.2 Comments