

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 5690 - L2 Version 3
Chandra X-Ray Center

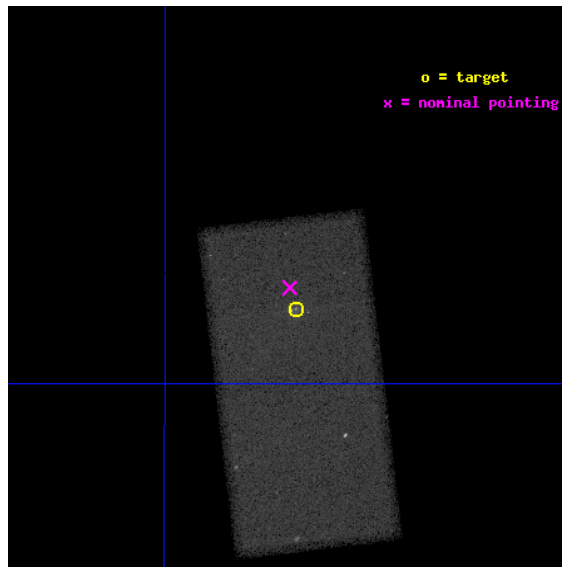
L2 Processing Date : Dec 23 2012

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1 Front

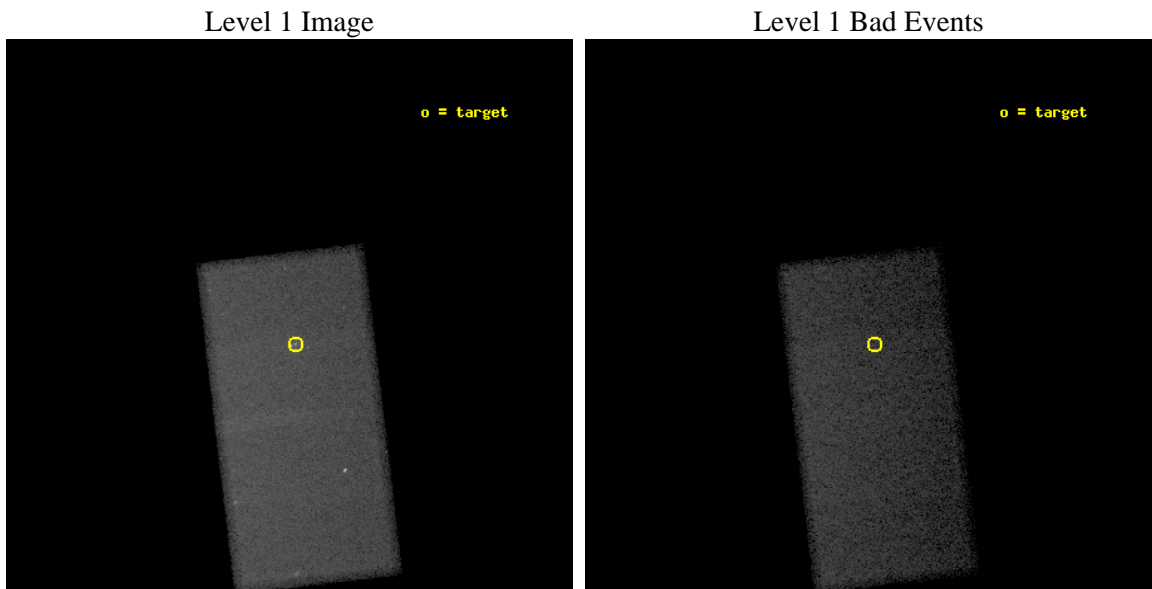
seq_num	701113	Sequence number
obs_id	5690	Observation id
title	Searching for X-ray Flares from the Nucleus of M32	Proposal title
observer	Professor Eliot Quataert	Principal investigator
object	M32	Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	10.674167	Observer's specified target RA [deg]
dec_targ	40.865167	Observer's specified target Dec [deg]
ra_nom	10.677888333688	Nominal RA [deg]
dec_nom	40.874427265187	Nominal Dec [deg]
roll_nom	83.175713616221	Nominal Roll [deg]
revision	3	Processing version of data
ontime	116116.45900983	Sum of GTIs [s]
livetime	113024.11911095	Livetime [s]
ontime7	116116.45900983	Sum of GTIs [s]
l2events	211574	Number of level 2 events



2 OBI

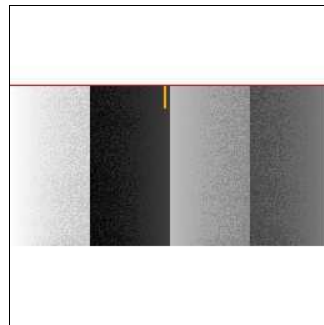
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	116000.000000	[s] Scheduled observation exposure time
ascdsver	8.5.1.1	Processing system revision	ontime	116116.45900983	Sum of GTIs [s]
caldsver	4.5.5	 	ontime7	116116.45900983	Sum of GTIs [s]
date	2012-12-23T23:15:37	Date and time of file creation	l1events	441175	Number of level 1 events
revision	3	Processing version of data			

2.1.4 Events

	ccd 7
level 1 events	441175
rejected events	223502
rejected %	50%

	ccd 7
grade 0 events	25327
	5%
grade 1 events	469
	0%
grade 2 events	45856
	10%
grade 3 events	23754
	5%
grade 4 events	23494
	5%
grade 5 events	45400
	10%
grade 6 events	101276
	22%
grade 7 events	175599
	39%

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	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	10.692503	10.67788833368832	Subarray requested	CUSTOM	1/2
[deg] Pointing Dec	40.849528	40.87442726518652	Subarray start row	257	257
[deg] Pointing Roll	83.009532	83.1757136162207	Subarray row count	512	512
[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	1.5
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	233542765.184000	233541476.98403			
Observation start date	2005-05-27T00:58:21	2005-05-27T00:37:56			
[s] Observation end time (MET)	233658765.184000	233659805.03942			
Observation end date	2005-05-28T09:11:41	2005-05-28T09:30:05			
Read mode	TIMED	TIMED			

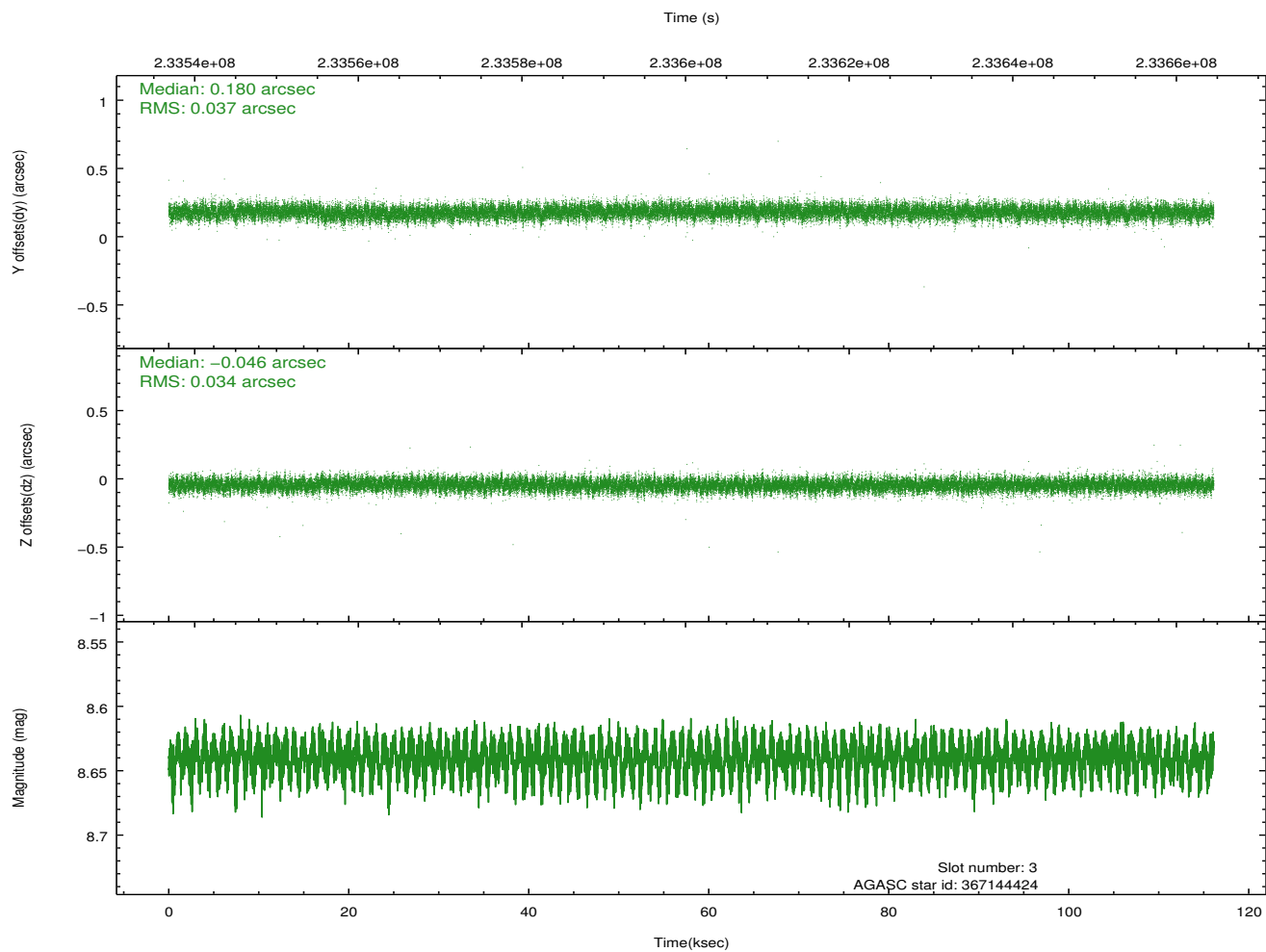
2.3 Aspect

Slot Statistics

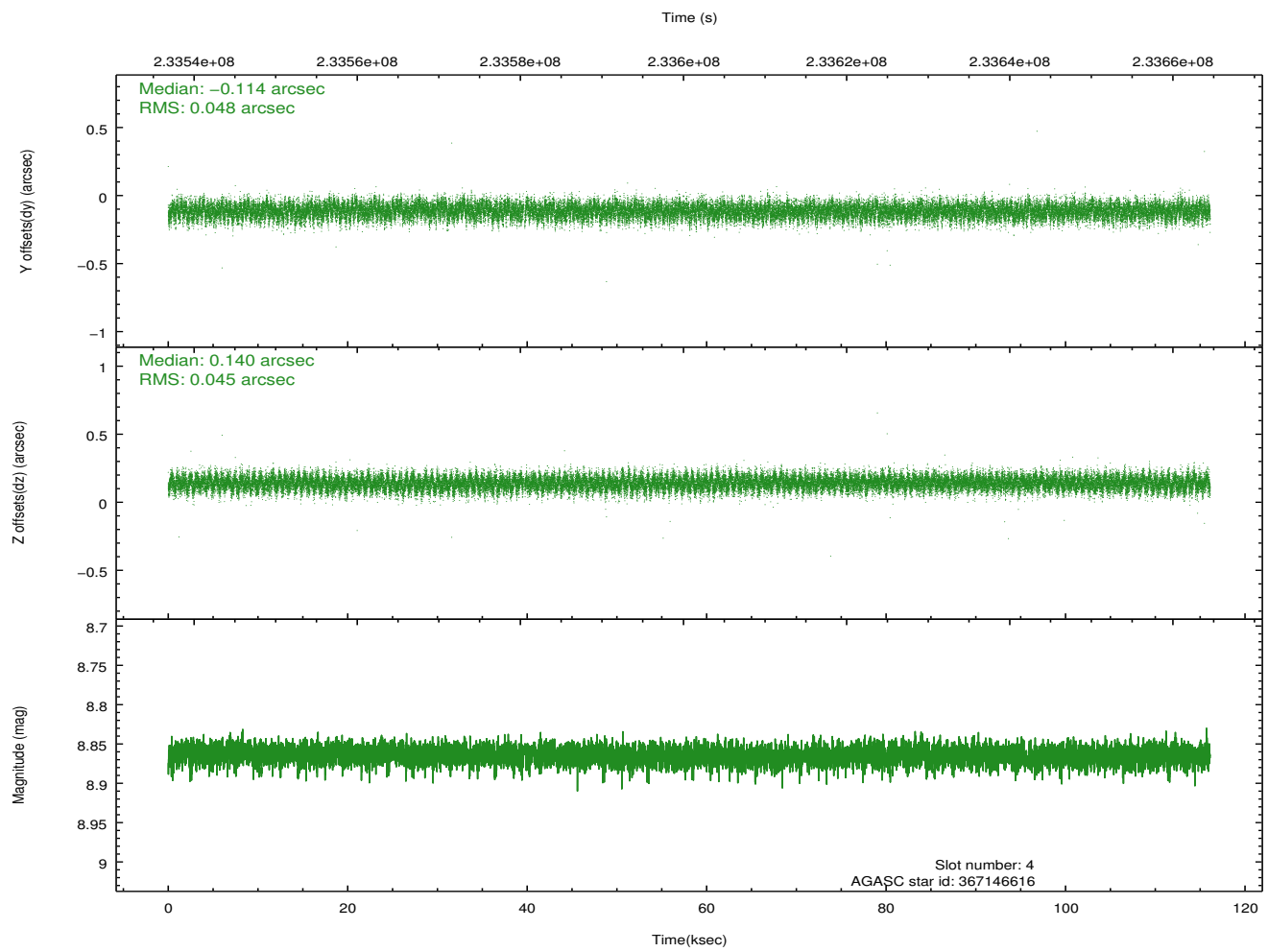
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	28320	-0.077	-0.046	0.006	0.012	0.000000	0.000000	-758.54	-1732.68
1	FID	ACIS-S-4	7.21	28320	0.056	0.049	0.006	0.012	0.000000	0.000000	2154.93	175.97
2	BAD	ACIS-S-6	7.35	2863	-0.106	-0.018	0.014	0.024	0.000000	0.000000	403.21	814.23
3	GUIDE	367144424	8.64	56626	0.180	-0.046	0.053	0.087	10.464515	40.309136	-2005.85	384.61
4	GUIDE	367146616	8.86	56548	-0.114	0.140	0.070	0.111	11.418645	41.190163	1465.11	-1801.76
5	GUIDE	367148872	7.21	56639	0.064	-0.221	0.067	0.103	10.505940	40.688258	-637.67	434.88
6	GUIDE	367138920	7.73	56567	-0.041	0.098	0.067	0.105	11.513485	40.808909	137.78	-2237.01
7	GUIDE	367657896	9.02	56613	-0.093	0.030	0.079	0.127	11.197765	41.313576	1828.73	-1151.84

2.4 Star Slots

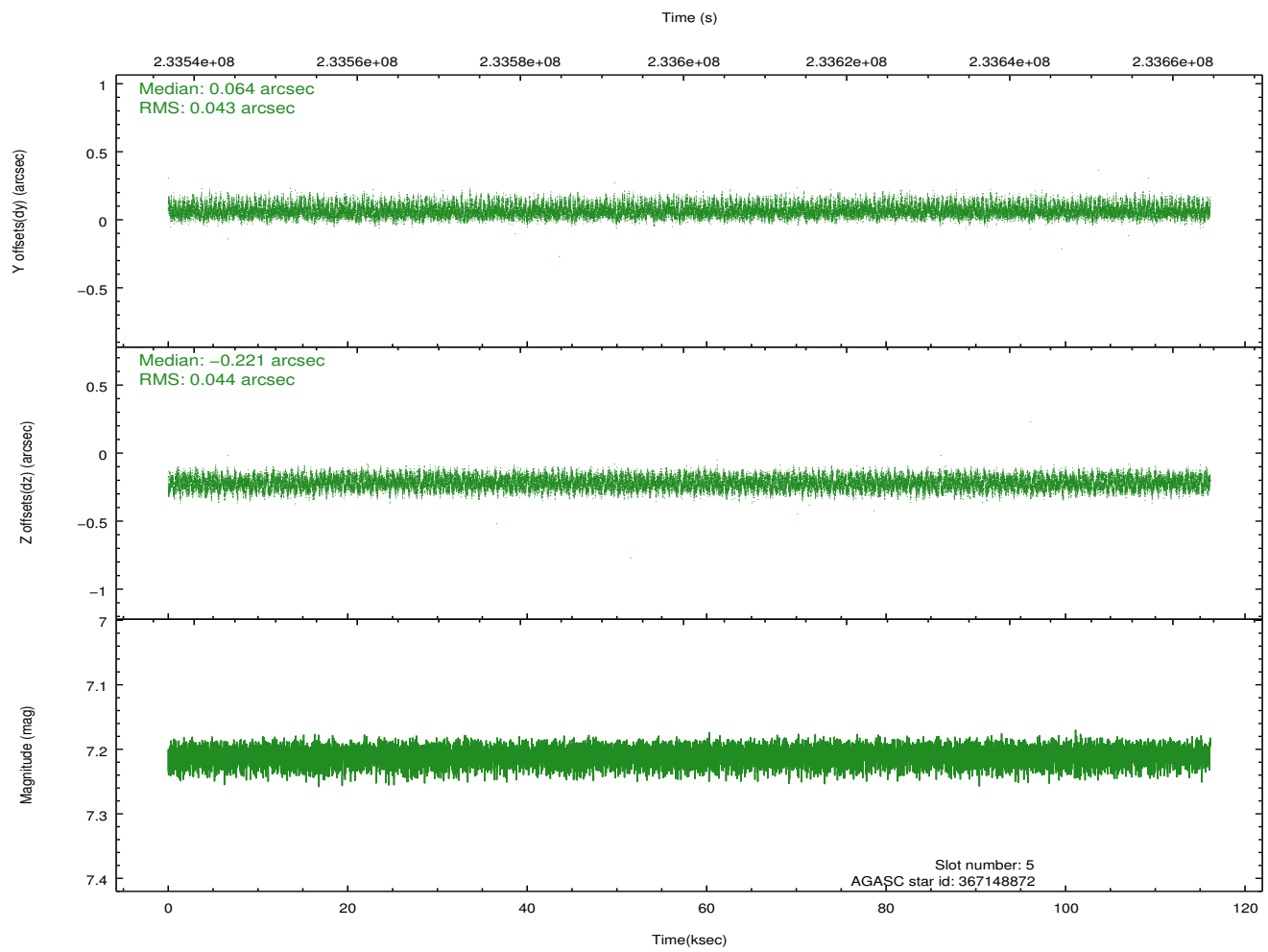
2.4.1 Slot 3



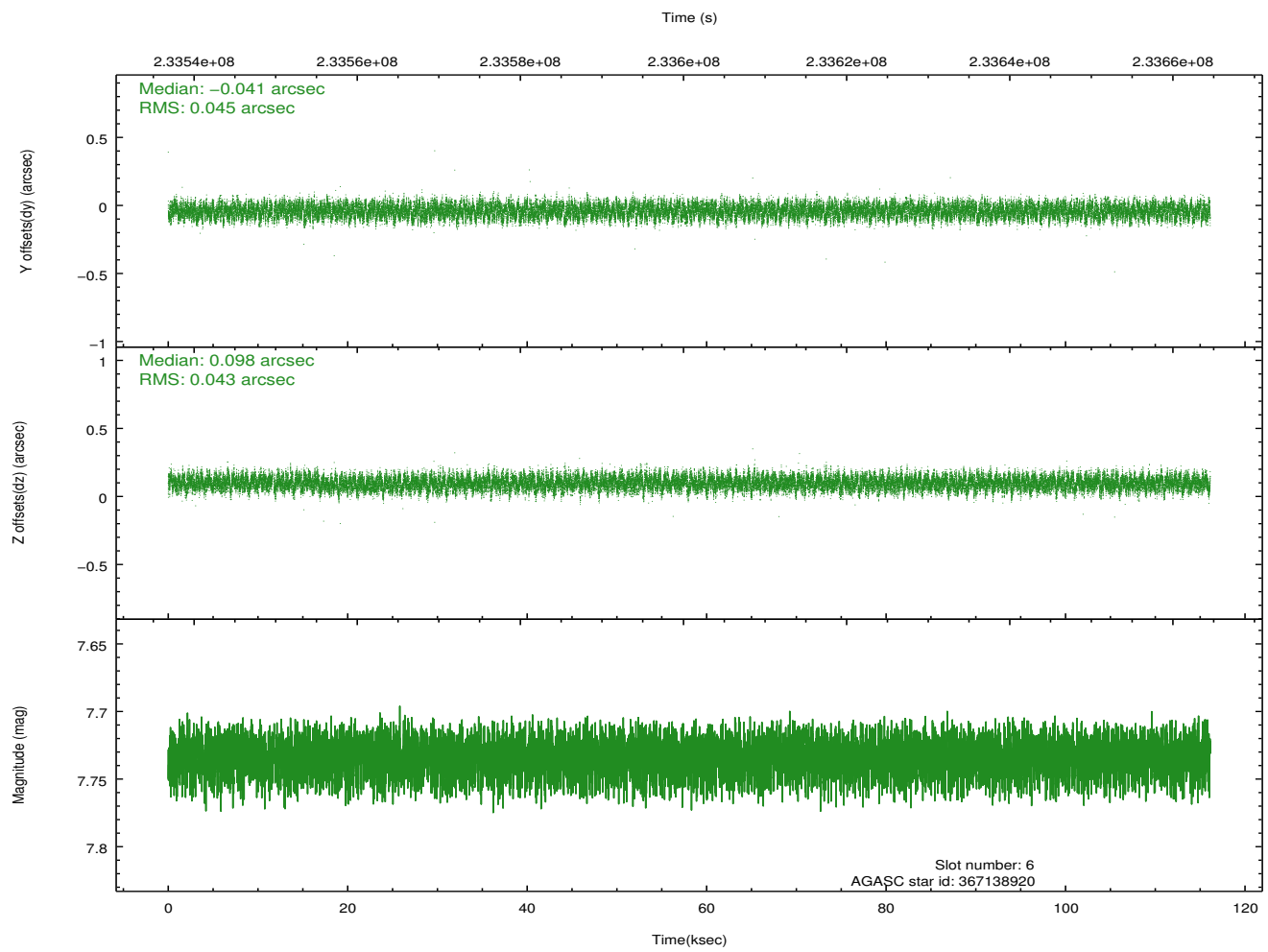
2.4.2 Slot 4



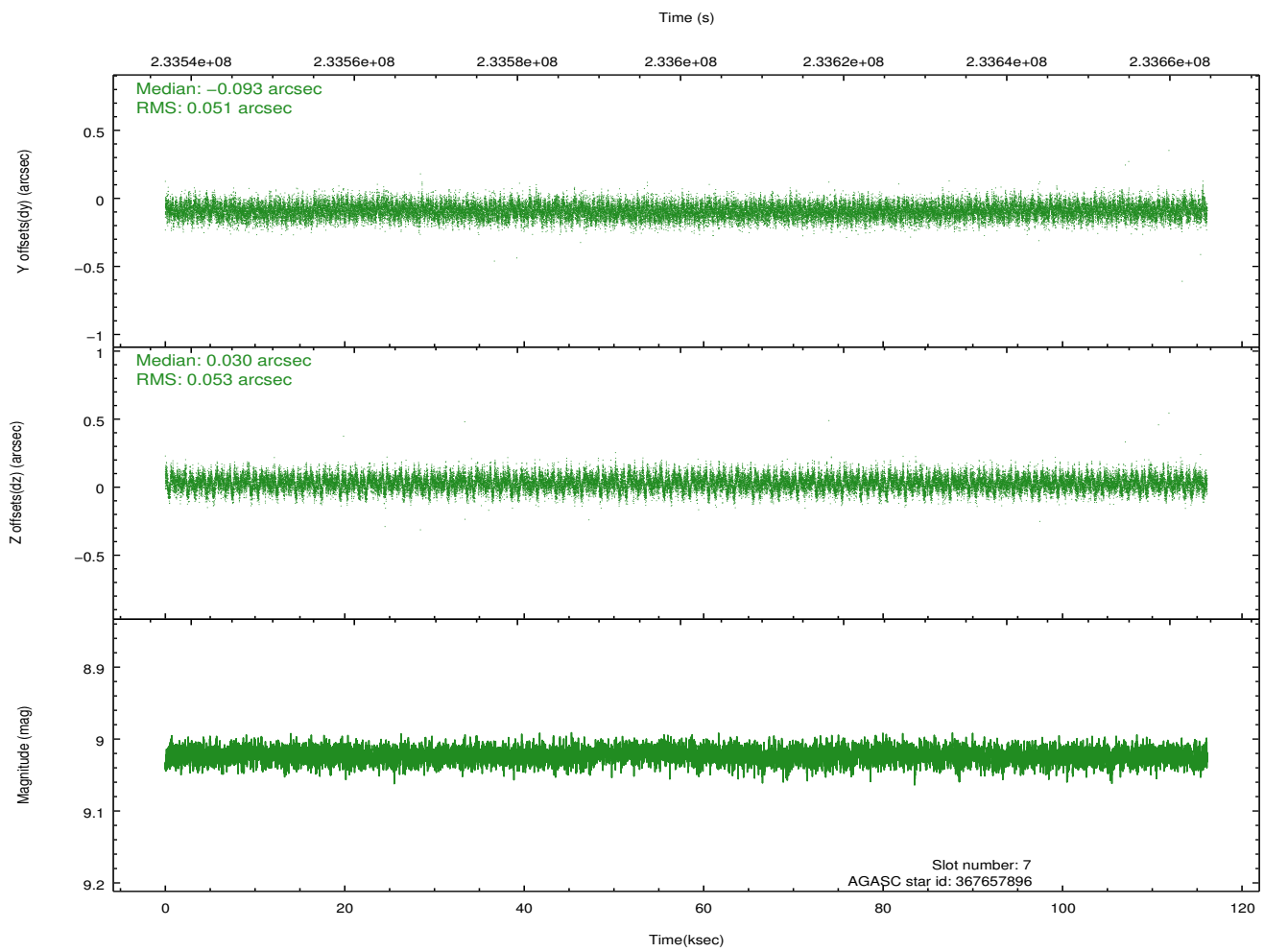
2.4.3 Slot 5



2.4.4 Slot 6

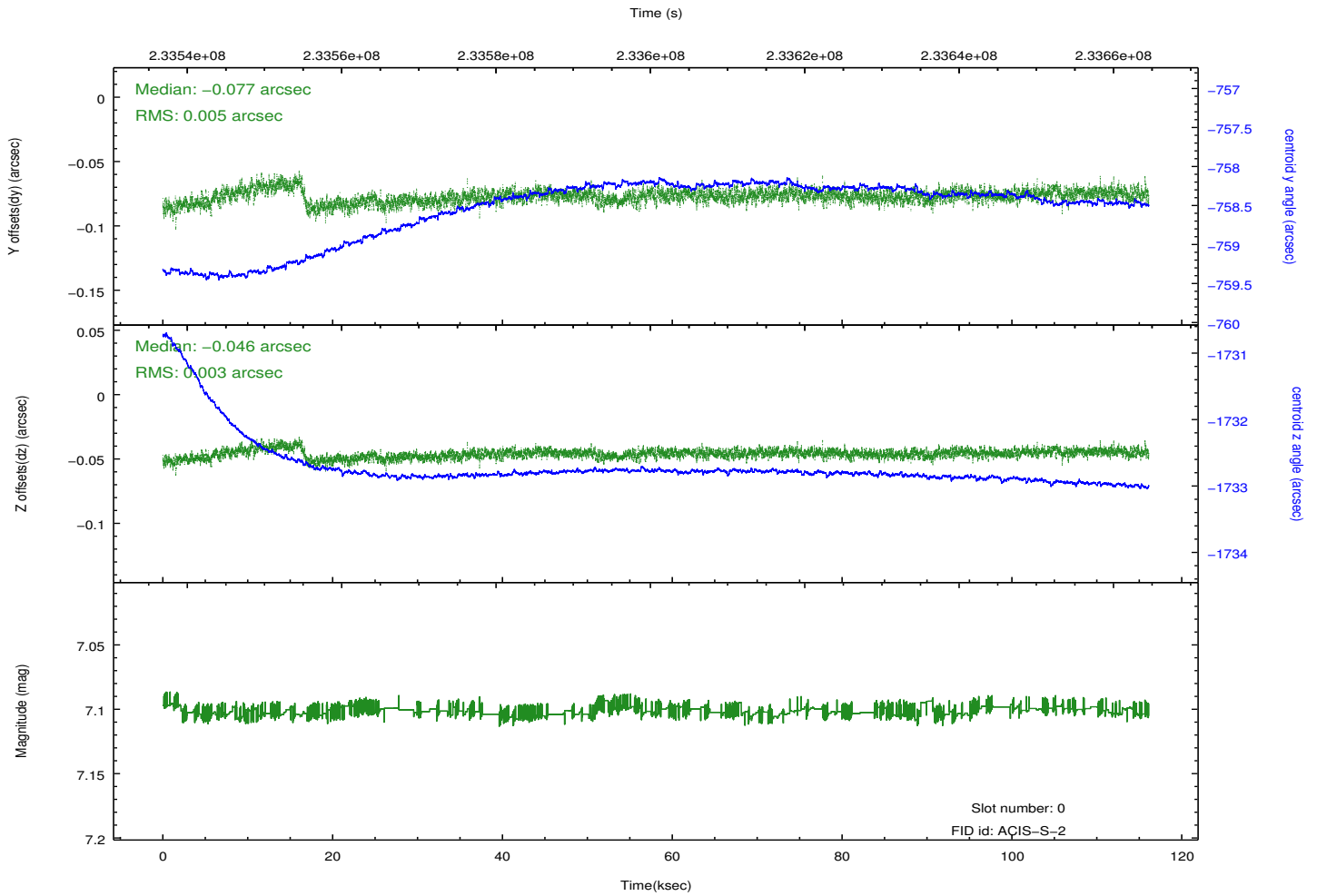
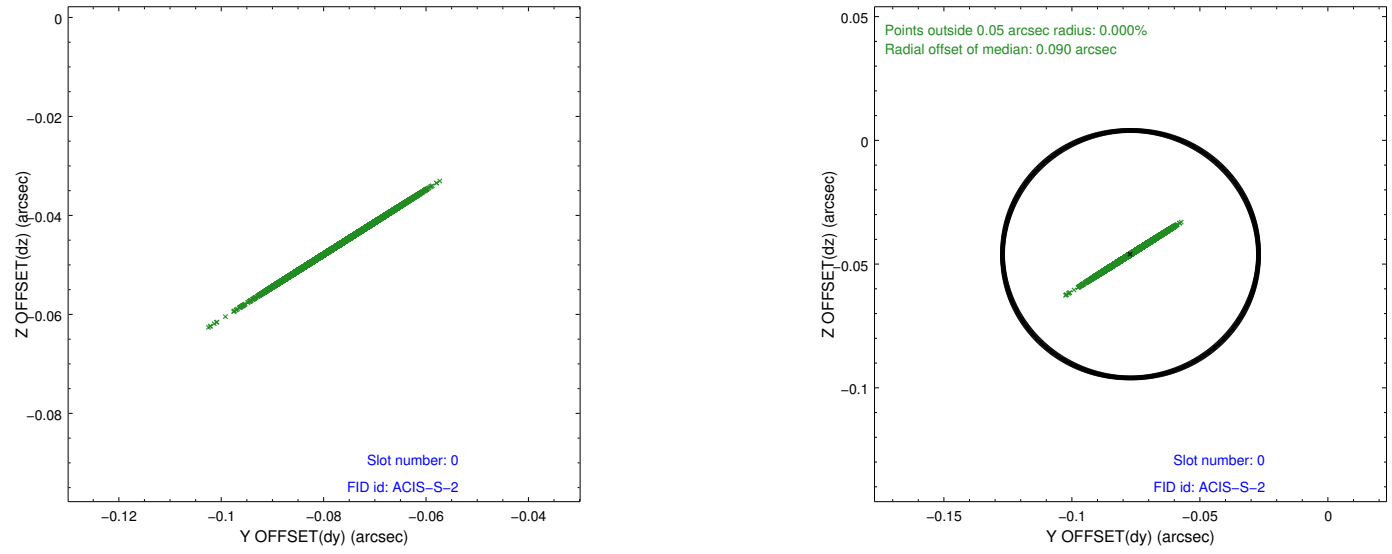


2.4.5 Slot 7

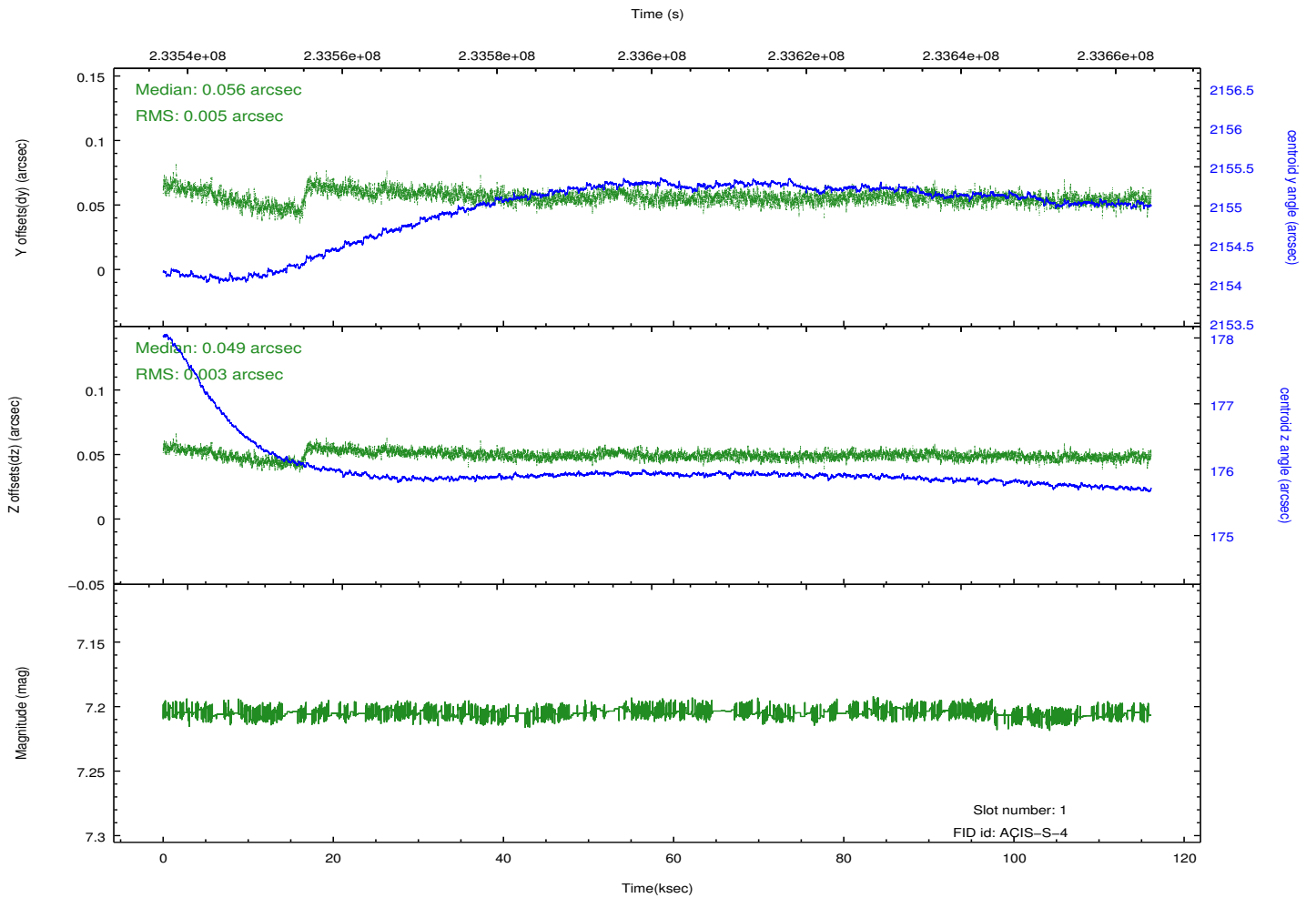
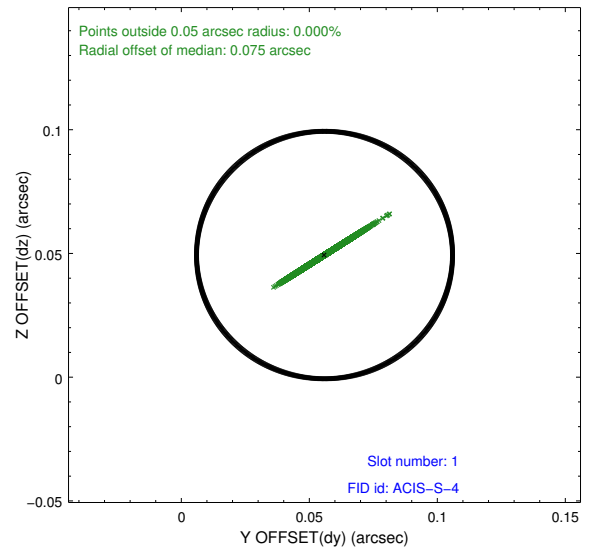
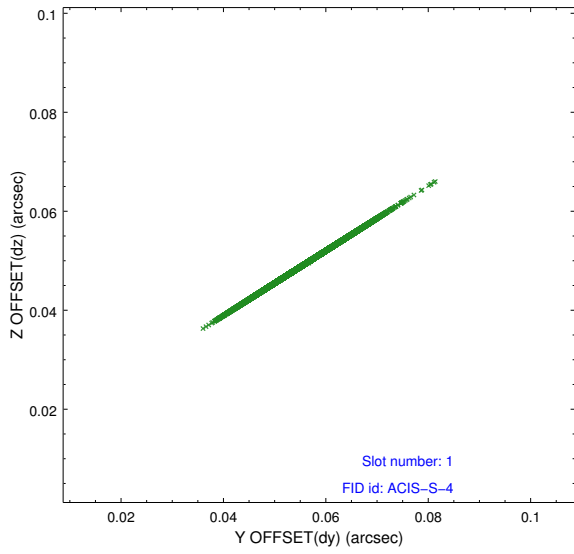


2.5 FID Slots

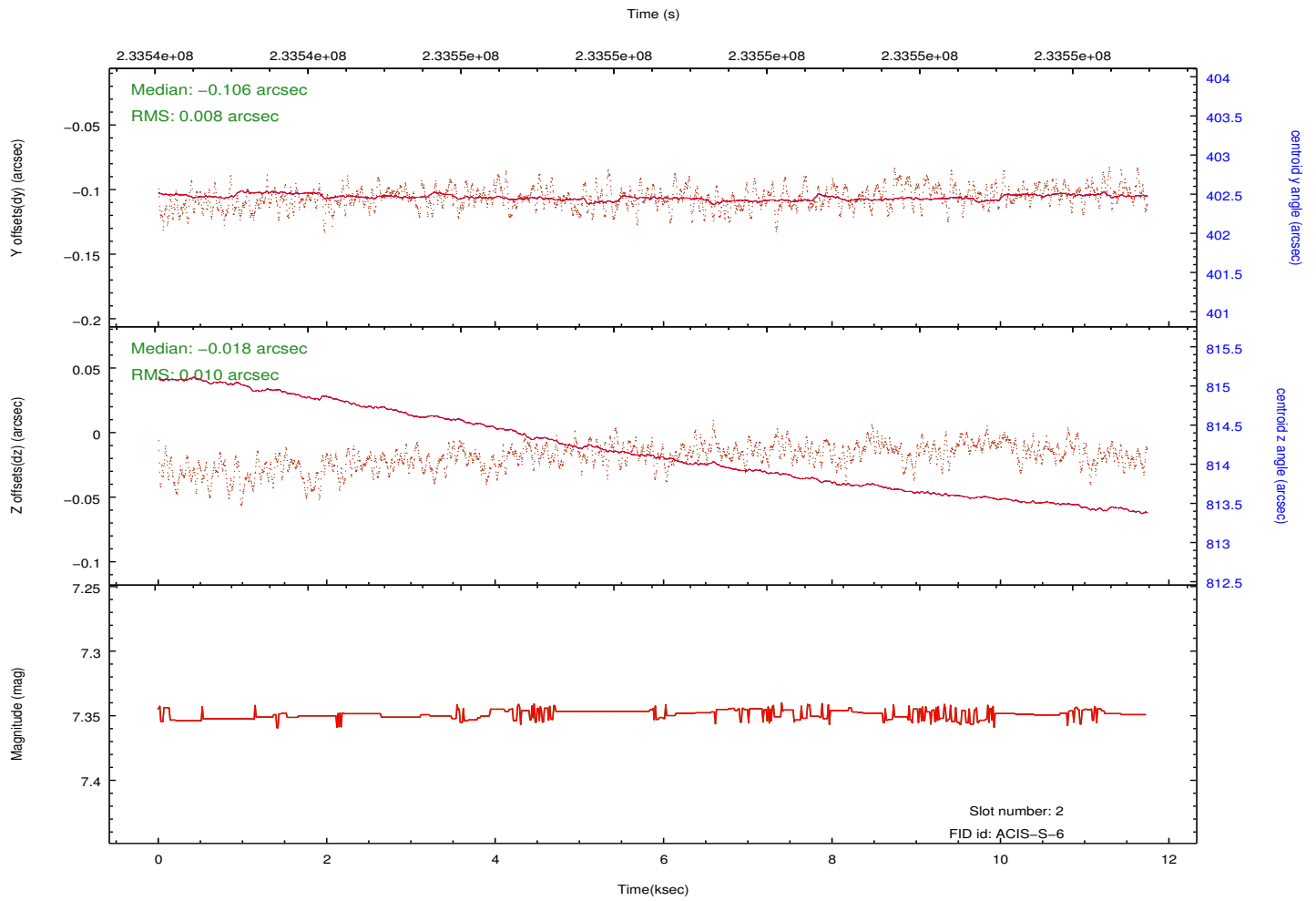
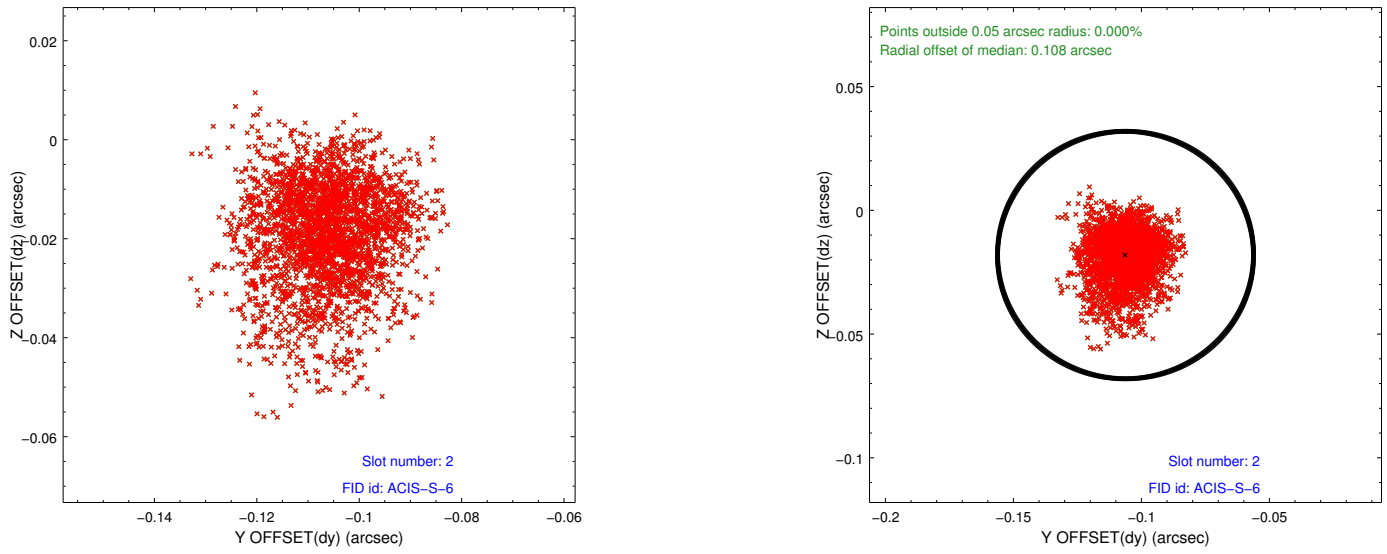
2.5.1 Slot 0



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)	2013.01.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	116.1164

A.2 Comments

Roll preference met. The fid light in slot 2 was automatically removed from the aspect solution due to poor data quality. The aspect solution is not degraded by the loss of one fid light.