

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 3577 - L2 Version 4
Chandra X-Ray Center

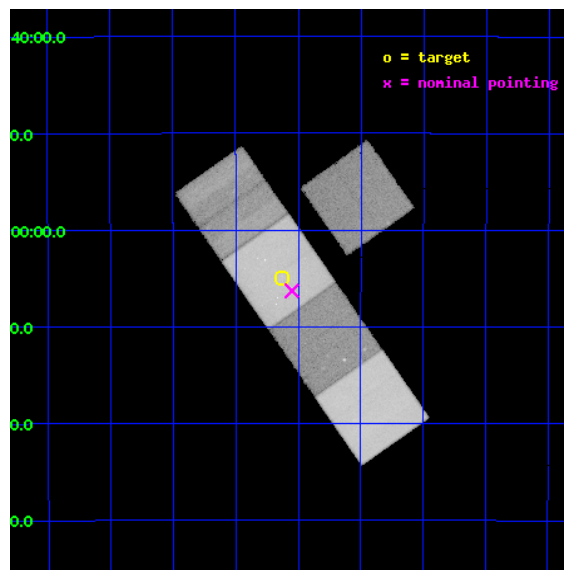
L2 Processing Date : Feb 15 2013

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1 Front

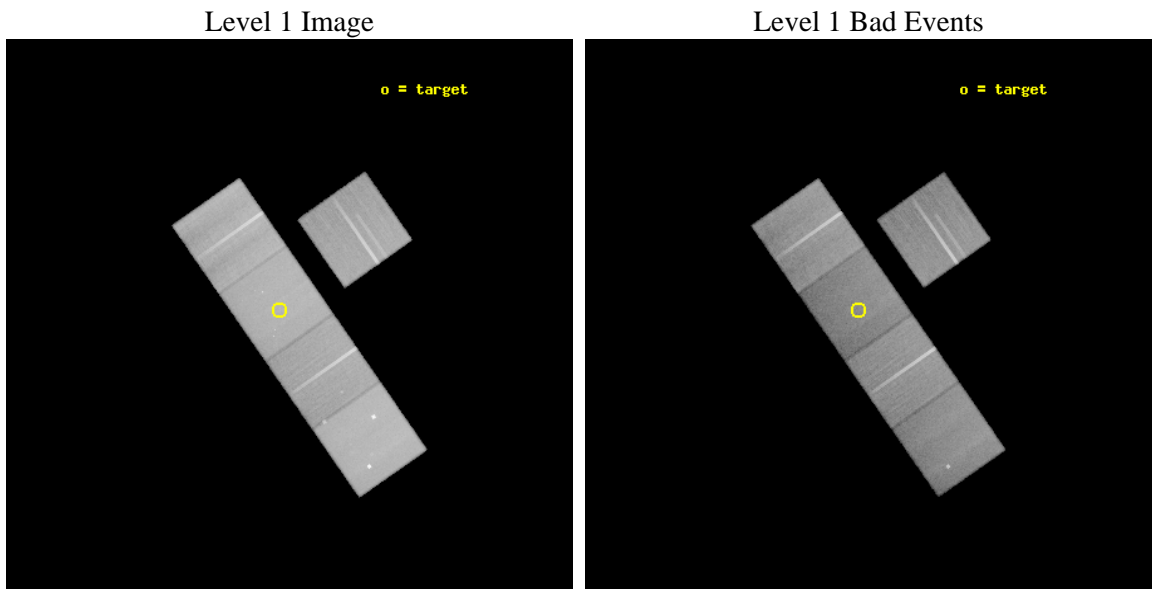
seq_num	800298	Sequence number
obs_id	3577	Observation id
title	A CHANDRA SURVEY OF A UNIFORMLY-SELECTED SAMPLE OF HIGH-REDSHIFT GALAXY CLUSTERS	Proposal title
observer	Professor Gordon Garmire	Principal investigator
object	RCS0439.6-2905	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	69.908333	Observer's specified target RA [deg]
dec_targ	-29.082	Observer's specified target Dec [deg]
ra_nom	69.887692599156	Nominal RA [deg]
dec_nom	-29.104782378803	Nominal Dec [deg]
roll_nom	235.08007977128	Nominal Roll [deg]
revision	4	Processing version of data
ontime	76886.199852139	Sum of GTIs [s]
livetime	75881.625048274	Livetime [s]
ontime3	76876.77697143	Sum of GTIs [s]
ontime5	76886.199852139	Sum of GTIs [s]
ontime6	76873.636011124	Sum of GTIs [s]
ontime7	76886.199852139	Sum of GTIs [s]
ontime8	76876.776911616	Sum of GTIs [s]
l2events	832753	Number of level 2 events



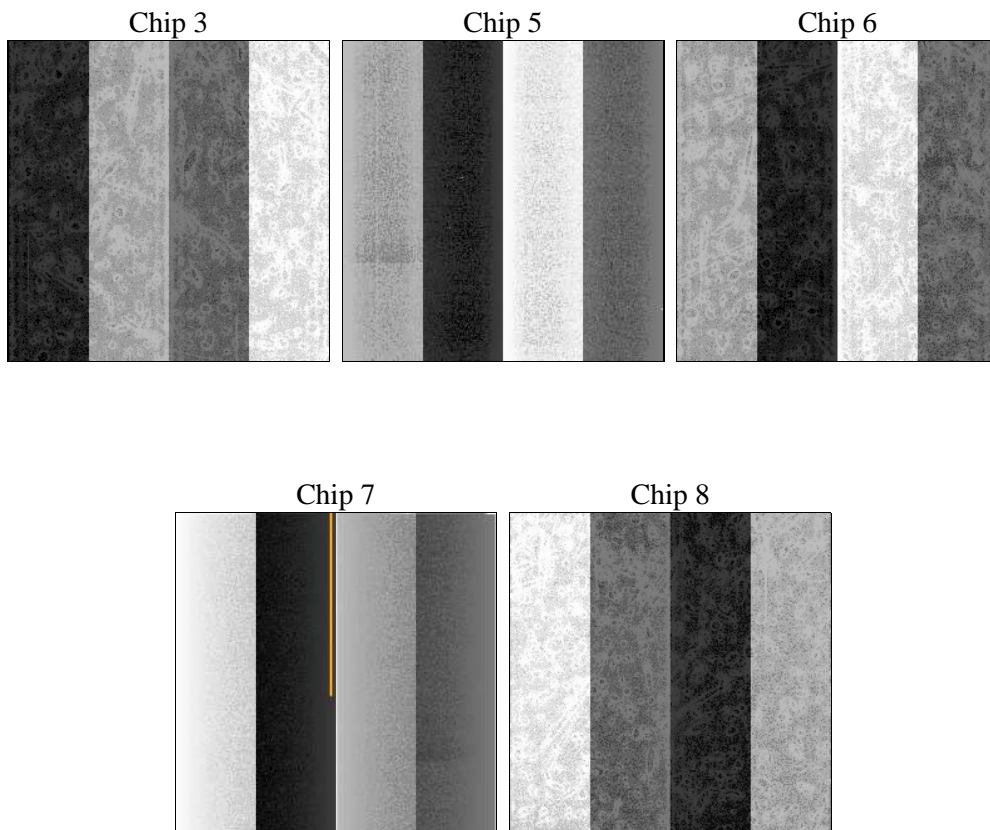
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	80223.788000	[s] Scheduled observation exposure time
ascdsver	8.5.1.1	Processing system revision	ontime	76886.199852139	Sum of GTIs [s]
caldbver	4.5.5	 	ontime3	76876.77697143	Sum of GTIs [s]
date	2013-02-15T13:52:38	Date and time of file creation	ontime5	76886.199852139	Sum of GTIs [s]
revision	4	Processing version of data	ontime6	76873.636011124	Sum of GTIs [s]
			ontime7	76886.199852139	Sum of GTIs [s]
			ontime8	76876.776911616	Sum of GTIs [s]
			l1events	2601542	Number of level 1 events

2.1.4 Events

	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	416369	652140	433451	551184	548398
rejected events	359856	282903	366025	245075	397824
rejected %	86%	43%	84%	44%	72%

	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	25605	48785	32250	31620	64045
	6%	7%	7%	5%	11%
grade 1 events	244	479	264	428	424
	0%	0%	0%	0%	0%
grade 2 events	10483	104936	11728	58844	28311
	2%	16%	2%	10%	5%
grade 3 events	5477	20698	5820	27129	13470
	1%	3%	1%	4%	2%
grade 4 events	5248	18196	5718	26957	12929
	1%	2%	1%	4%	2%
grade 5 events	15122	46402	16096	47863	22057
	3%	7%	3%	8%	4%
grade 6 events	9908	177378	12153	162161	32259
	2%	27%	2%	29%	5%
grade 7 events	344282	235266	349422	196182	374903
	82%	36%	80%	35%	68%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-35678	ACIS-35678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	OVERRIDE	OVERRIDE
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	69.889937	69.887692599156	Subarray requested	NONE	NONE
[deg] Pointing Dec	-29.077633	-29.10478237880323	Alternating exposures requested	N	N
[deg] Pointing Roll	234.924554	235.0800797712797	[s] Primary exposure time	3.1	3.1
[mm] SIM focus pos	-0.6828225247311905	-0.6828225247311905			
[mm] SIM defocus	0.001444942264670179	0.001444942264670179			
[mm] SIM translation stage pos	-190.1400660498719	-190.1400660498719			
[mm] SIM translation stage offset	0.007542945904702947	0.007542945904702947			
[s] Observation start time (MET)	166921988.184000	166921988.184			
Observation start date	2003-04-16T23:12:04	2003-04-16T23:13:08			
[s] Observation end time (MET)	166998960.000000	166998960			
Observation end date	2003-04-17T20:36:00	2003-04-17T20:36:00			
Read mode	TIMED	TIMED			

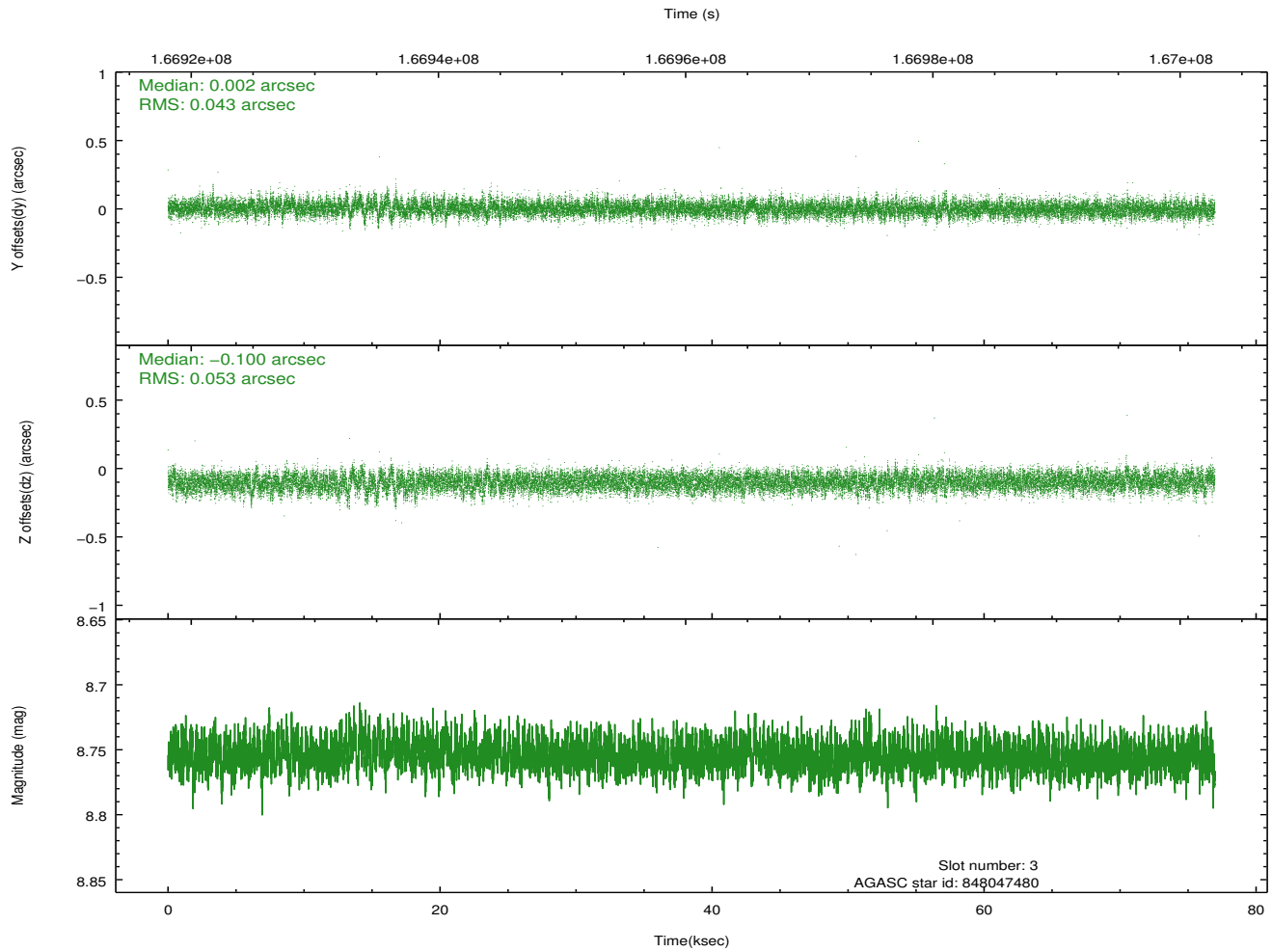
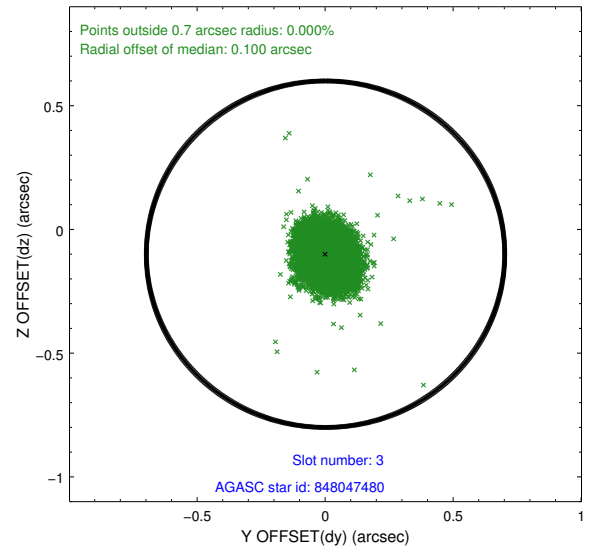
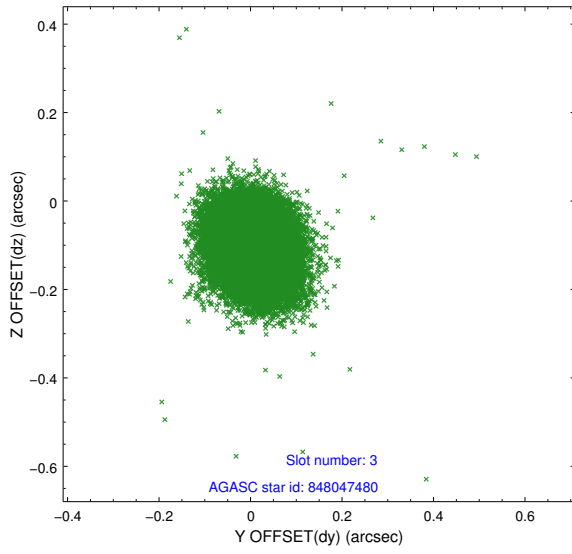
2.3 Aspect

Slot Statistics

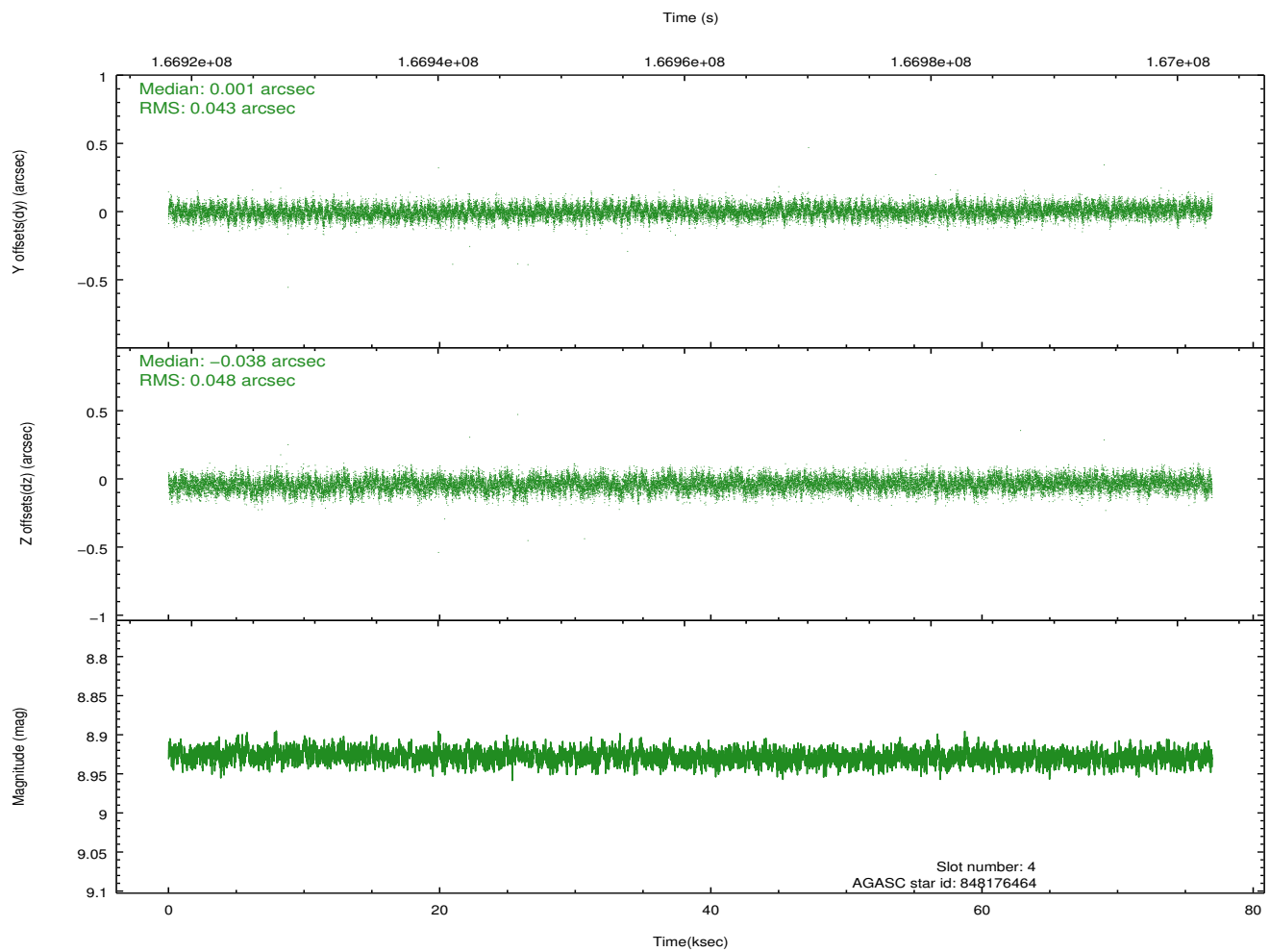
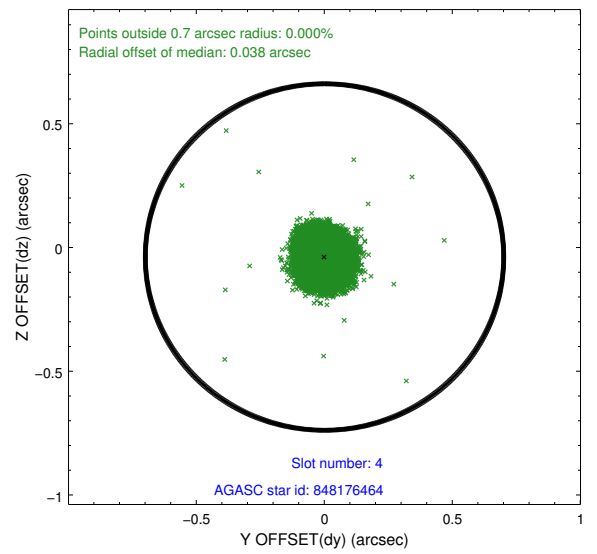
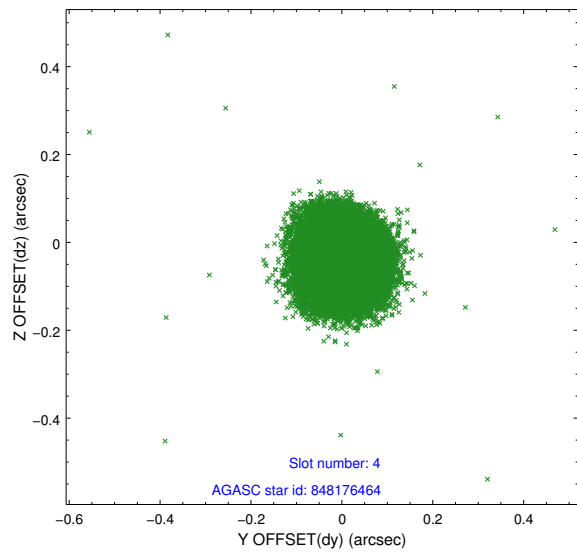
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	18773	-0.021	-0.008	0.008	0.019	0.000000	0.000000	-754.96	-1729.42
1	FID	ACIS-S-4	7.20	18770	-0.021	0.012	0.006	0.014	0.000000	0.000000	2158.35	179.16
2	FID	ACIS-S-5	7.24	18771	0.011	0.005	0.008	0.017	0.000000	0.000000	-1807.86	172.74
3	GUIDE	848047480	8.75	37537	0.002	-0.100	0.072	0.117	69.257860	-28.952835	781.33	-1884.41
4	GUIDE	848176464	8.93	37512	0.001	-0.038	0.069	0.110	70.004301	-28.552244	-1755.36	-790.87
5	GUIDE	848177296	9.17	37526	-0.124	0.100	0.088	0.143	70.244110	-29.383303	263.30	1542.94
6	GUIDE	848178576	9.61	37392	0.093	0.006	0.105	0.167	69.996704	-29.808116	1960.71	1784.84
7	GUIDE	848177232	9.88	37445	0.031	0.033	0.105	0.173	70.176017	-28.460107	-2338.51	-535.81

2.4 Star Slots

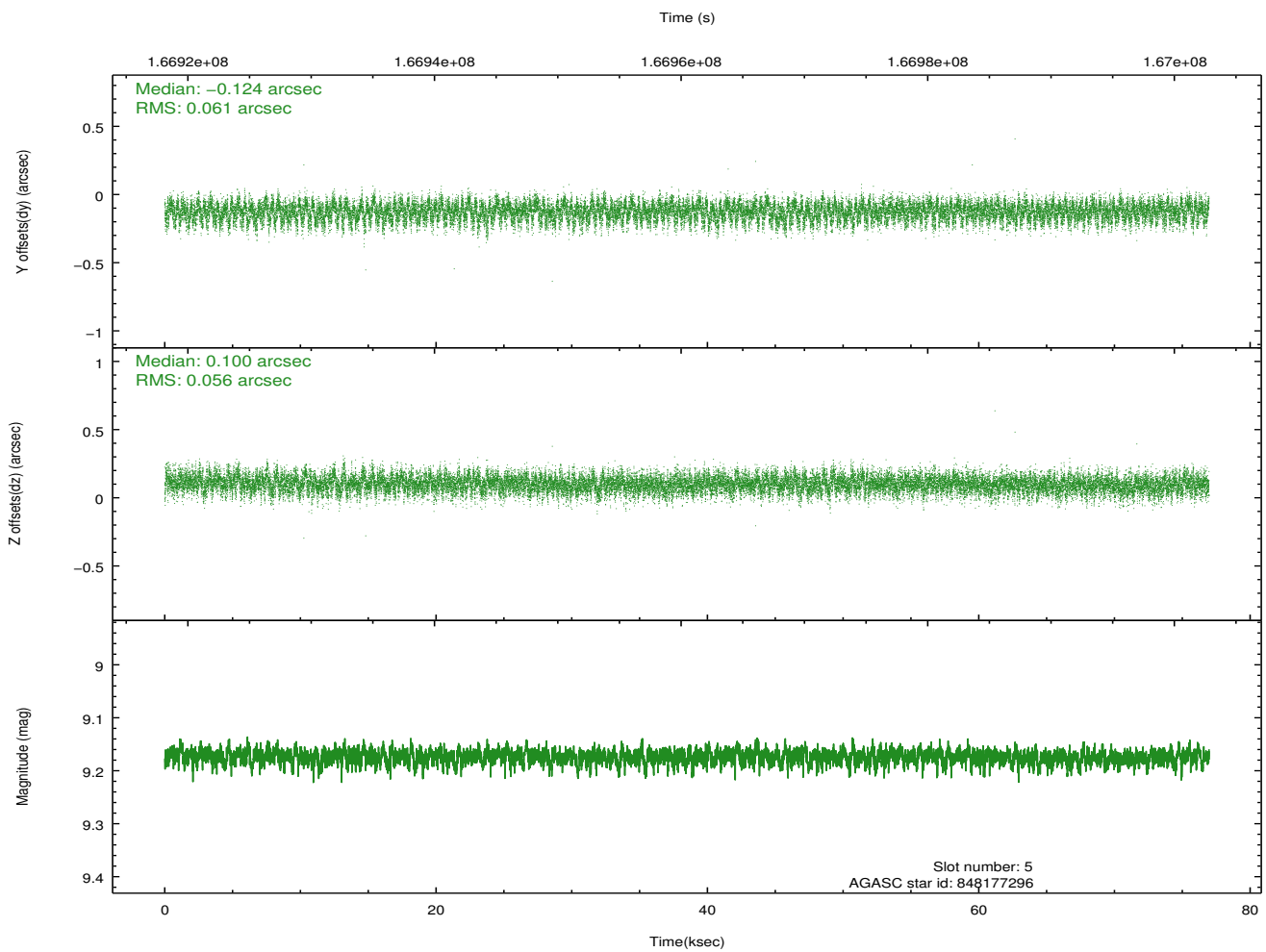
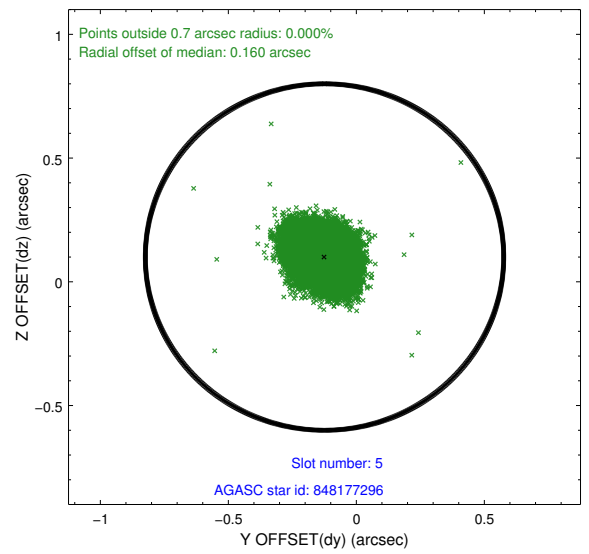
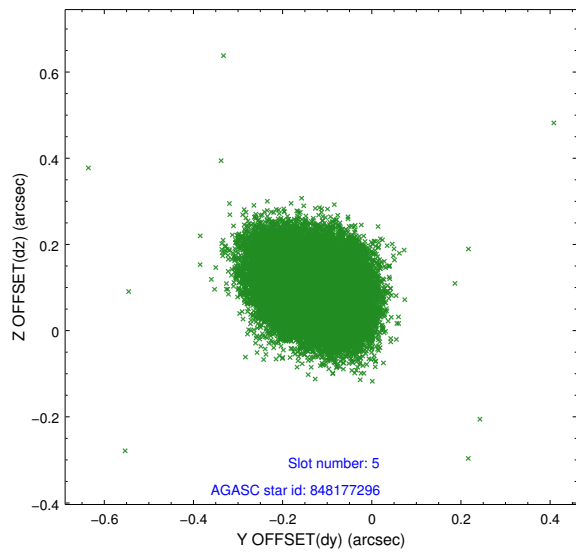
2.4.1 Slot 3



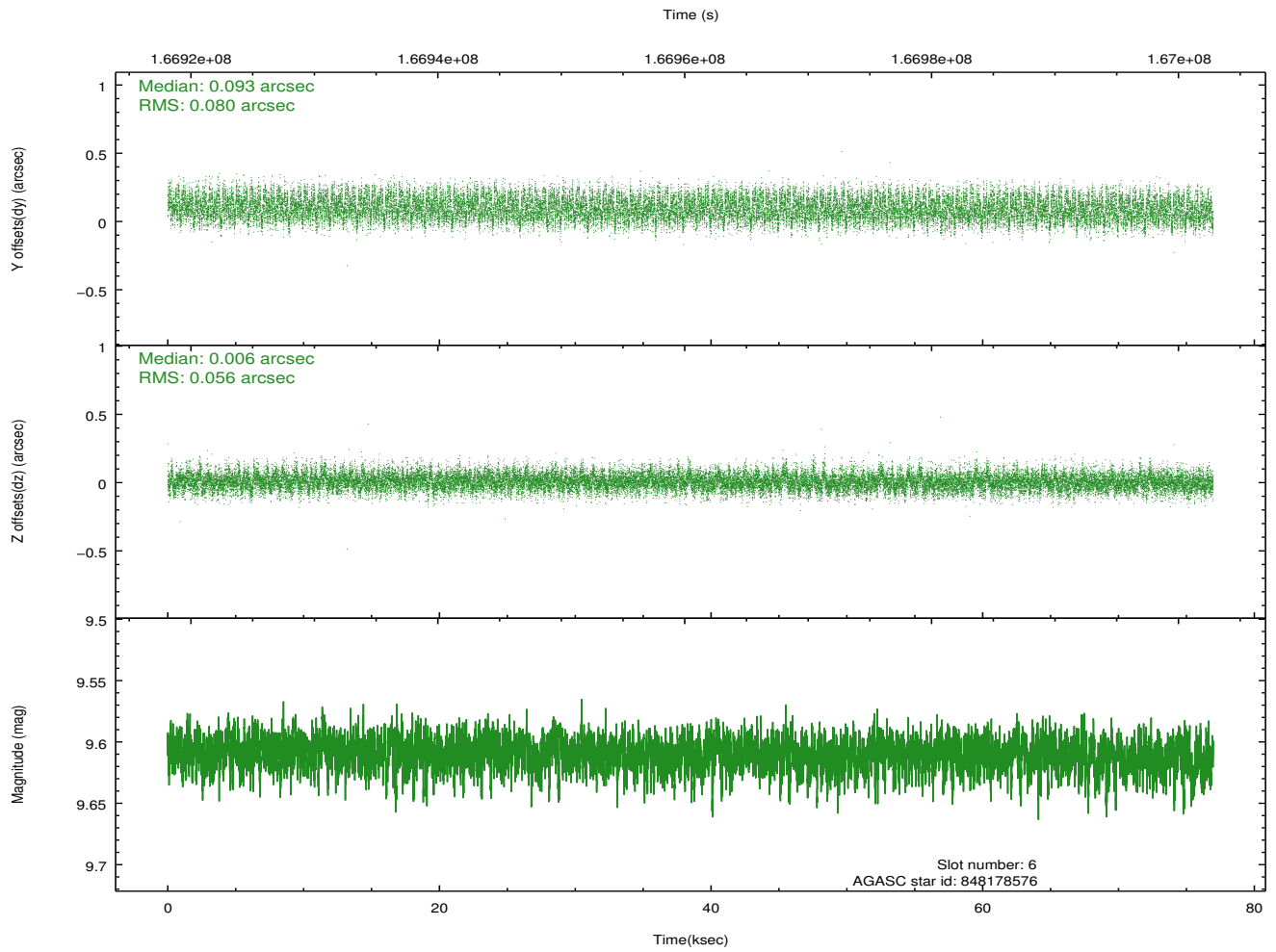
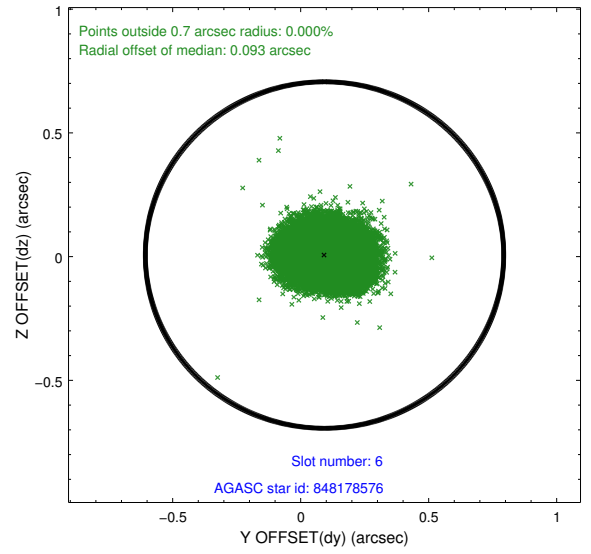
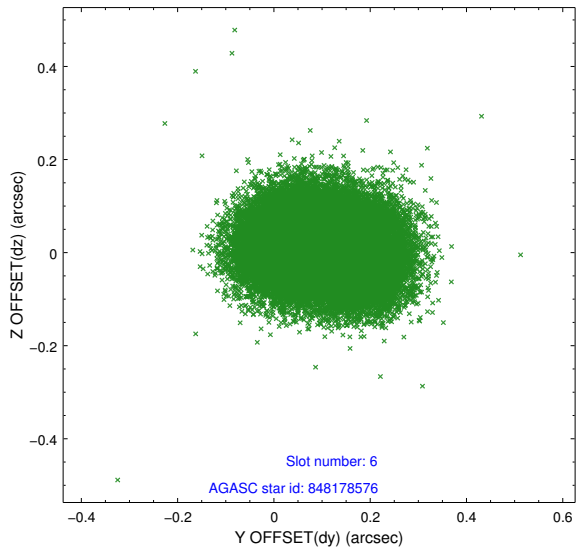
2.4.2 Slot 4



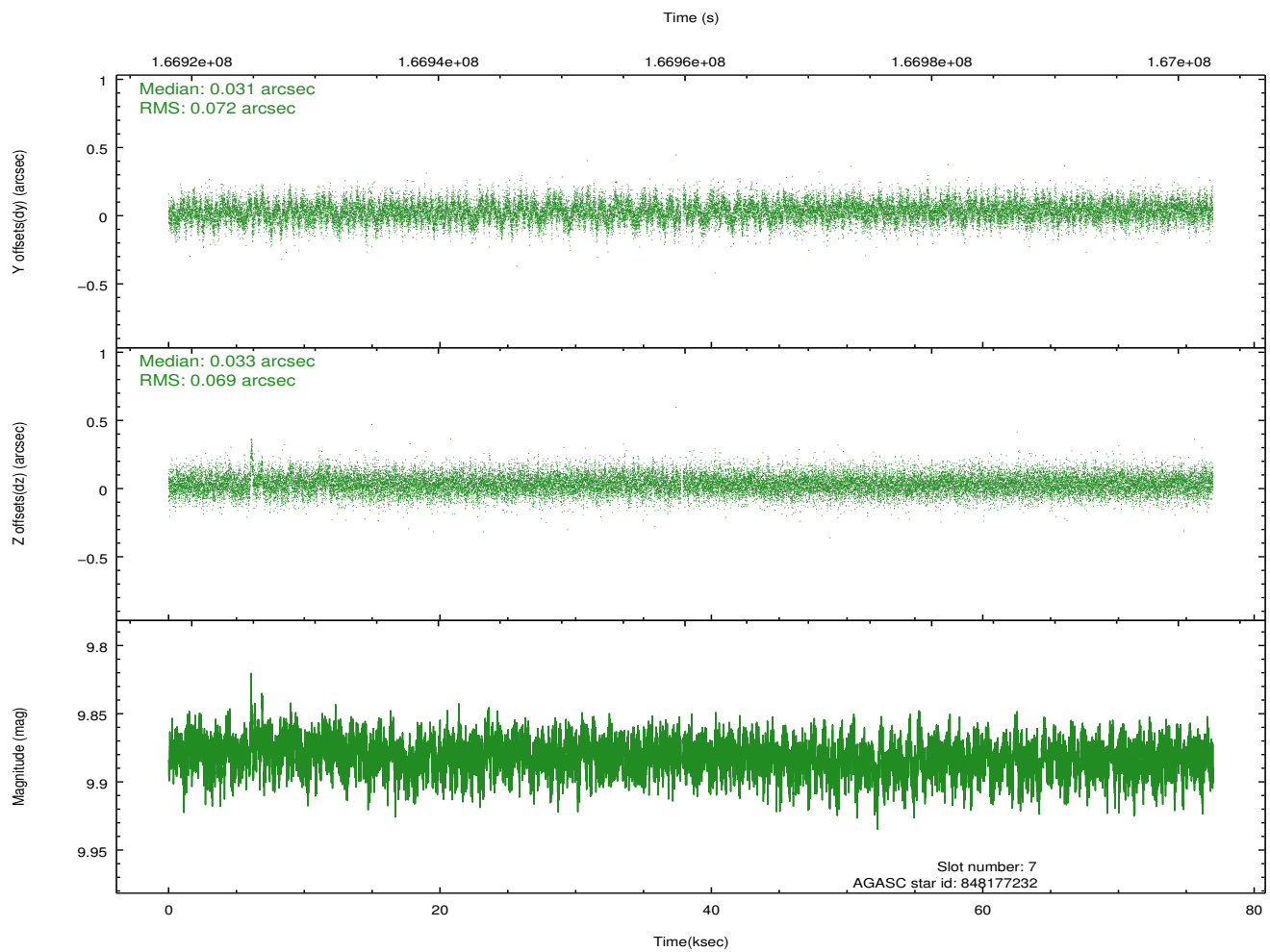
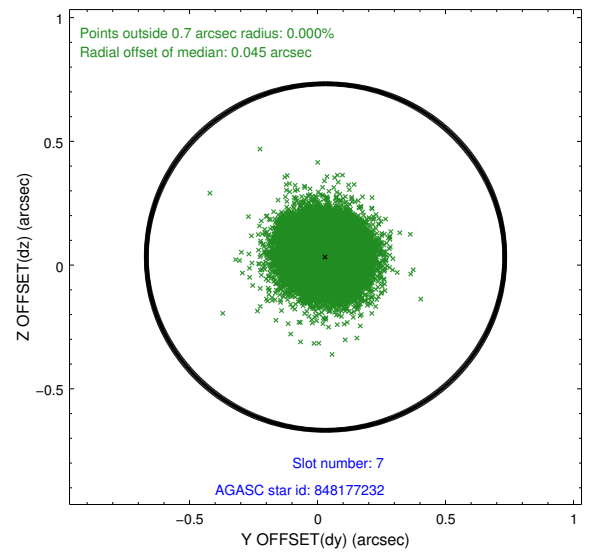
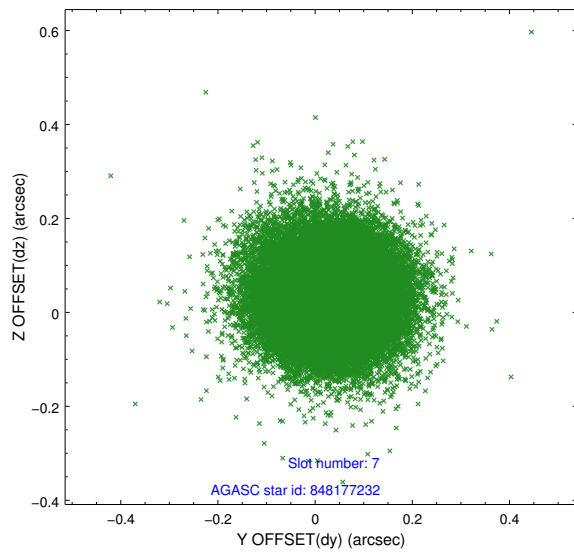
2.4.3 Slot 5



2.4.4 Slot 6

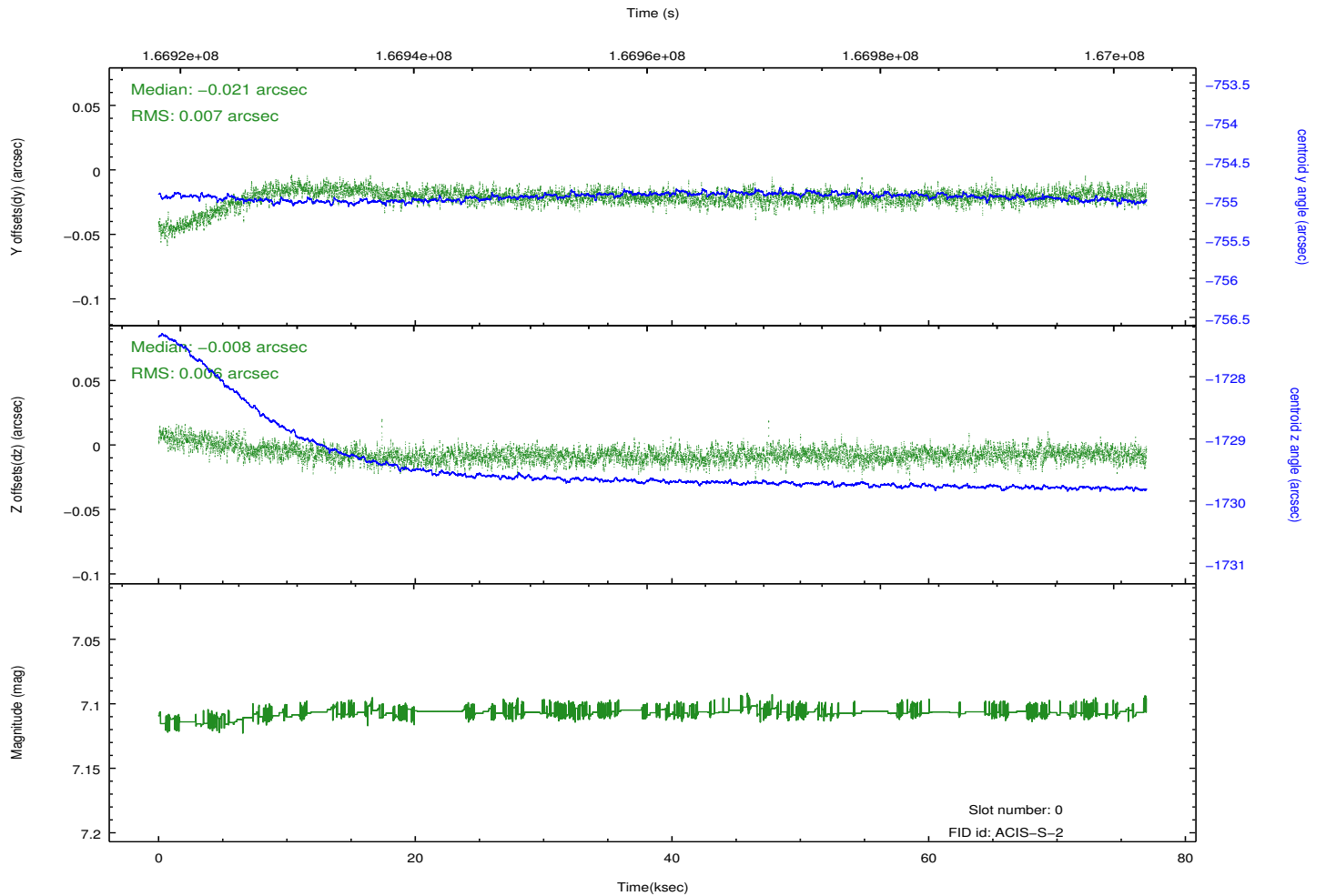
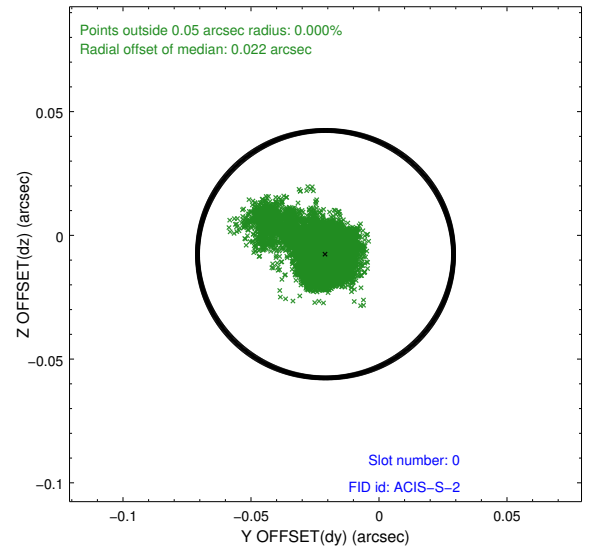
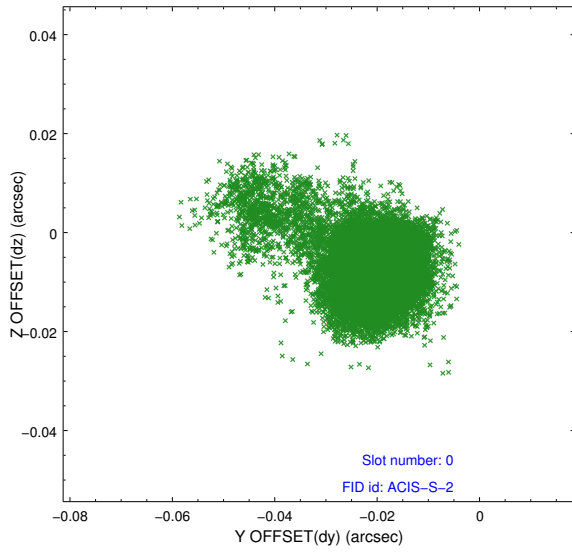


2.4.5 Slot 7

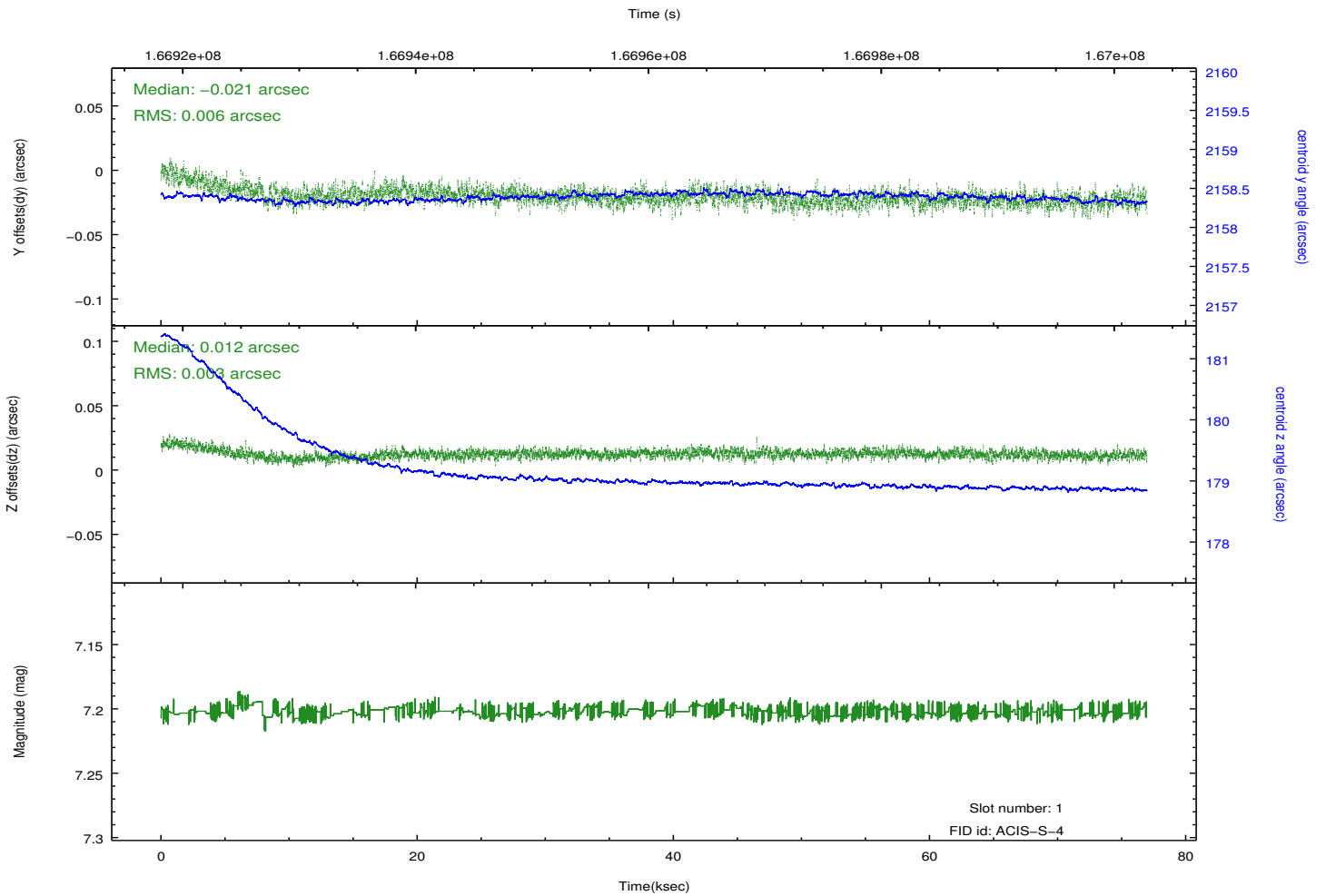
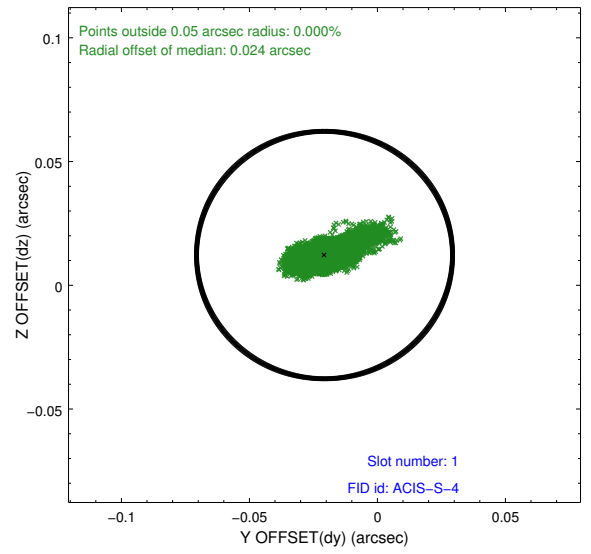
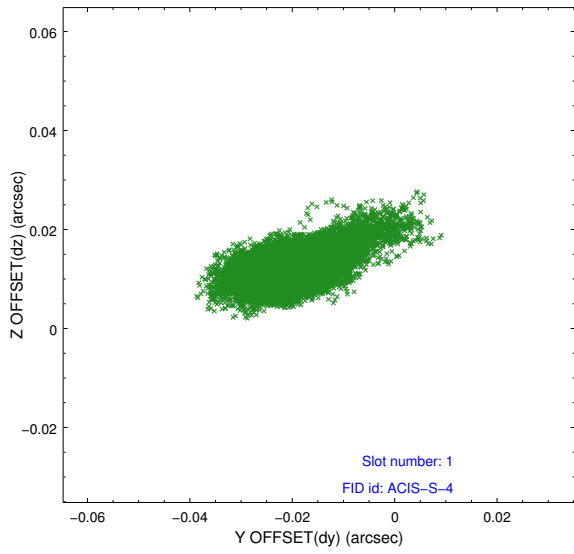


2.5 FID Slots

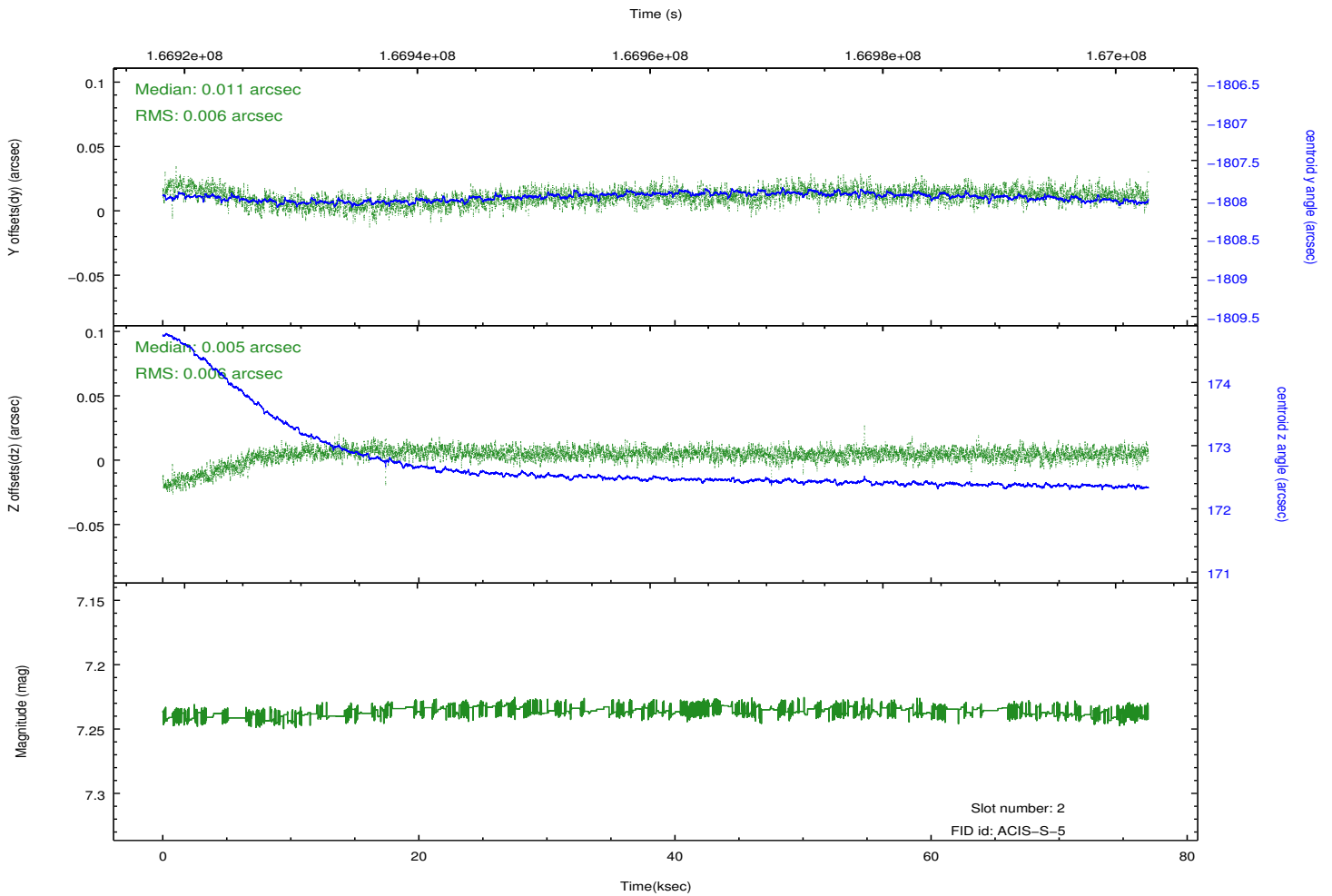
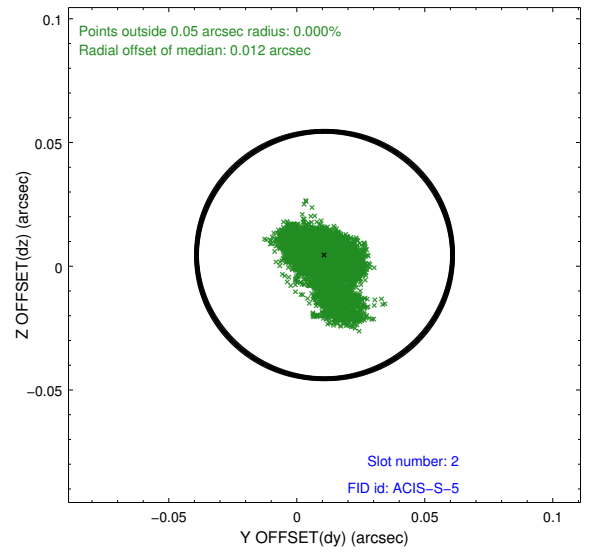
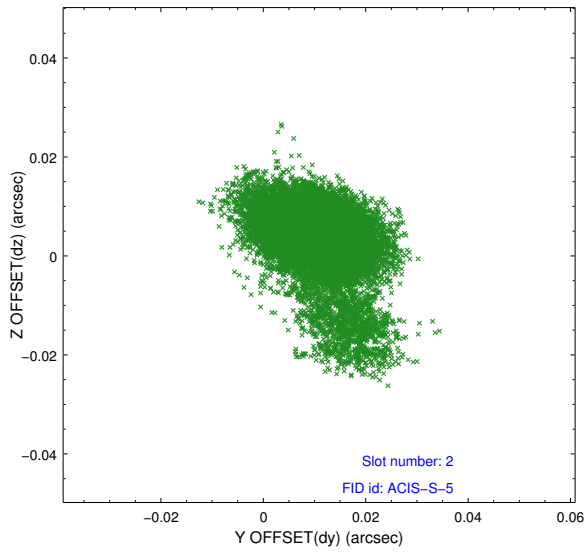
2.5.1 Slot 0



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)	2013.02.19
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	77.171

A.2 Comments

Charge time for this ObsId remains at previous value of 77.171 ks although with the current processing the charge time would have been 76.89 ksec.

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This observation was interrupted by safing of the science instruments onboard Chandra due to high solar radiation environment. The observation was interrupted at 2003:107:2036. Due to a high radiation environment, the instruments were safed and the observation terminated early. This observation has been reprocessed so that the aspect solution correctly handles the instrument safing and maneuver activities at the end of the observation.