

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 15341 - L2 Version 3
Chandra X-Ray Center

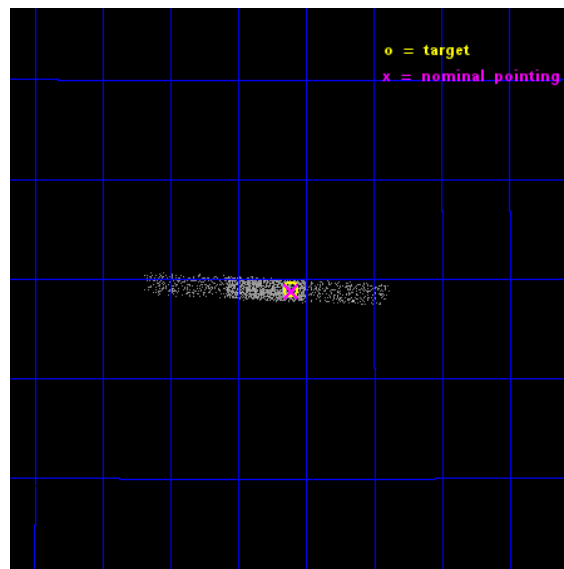
L2 Processing Date : Dec 2 2014

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1 Front

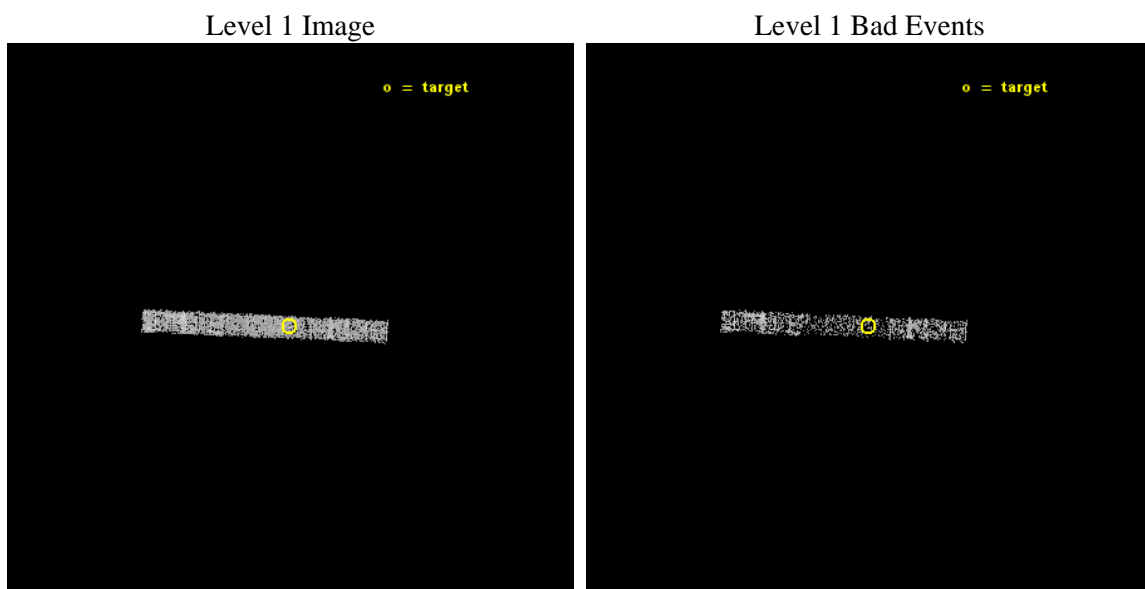
seq_num	702901	Sequence number
obs_id	15341	Observation id
title	Clarifying the Nature of Weak-Line Quasars with Chandra Spectroscopy and Snapshots	Proposal title
observer	Professor Gordon Garmire	Principal investigator
object	SDSS J1156+1848	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	179.154167	Observer's specified target RA [deg]
dec_targ	18.815694	Observer's specified target Dec [deg]
ra_nom	179.15236993049	Nominal RA [deg]
dec_nom	18.812953920097	Nominal Dec [deg]
roll_nom	182.51906939812	Nominal Roll [deg]
revision	3	Processing version of data
ontime	2094.124512136	Sum of GTIs [s]
livetime	2002.7969702907	Livetime [s]
ontime6	2094.0834721327	Sum of GTIs [s]
ontime7	2094.124512136	Sum of GTIs [s]
ontime8	2094.0424321294	Sum of GTIs [s]
l2events	2043	Number of level 2 events



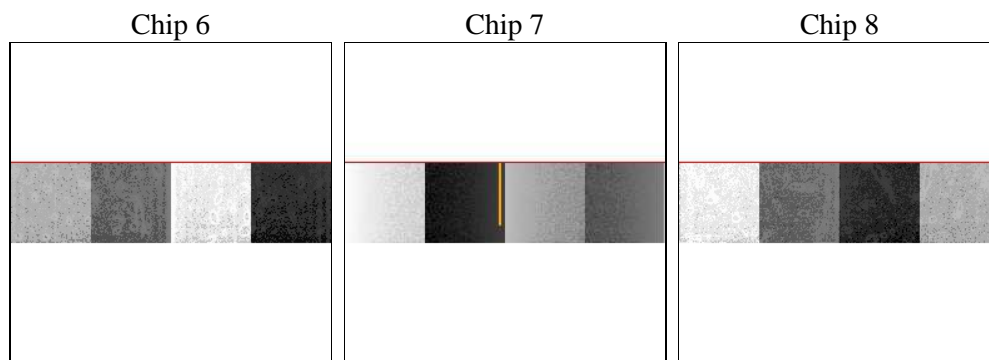
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	2000.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	2094.124512136	Sum of GTIs [s]
caldbver	4.6.4	 	ontime6	2094.0834721327	Sum of GTIs [s]
date	2014-12-02T07:23:02	Date and time of file creation	ontime7	2094.124512136	Sum of GTIs [s]
revision	3	Processing version of data	ontime8	2094.0424321294	Sum of GTIs [s]
			l1events	10052	Number of level 1 events

2.1.4 Events

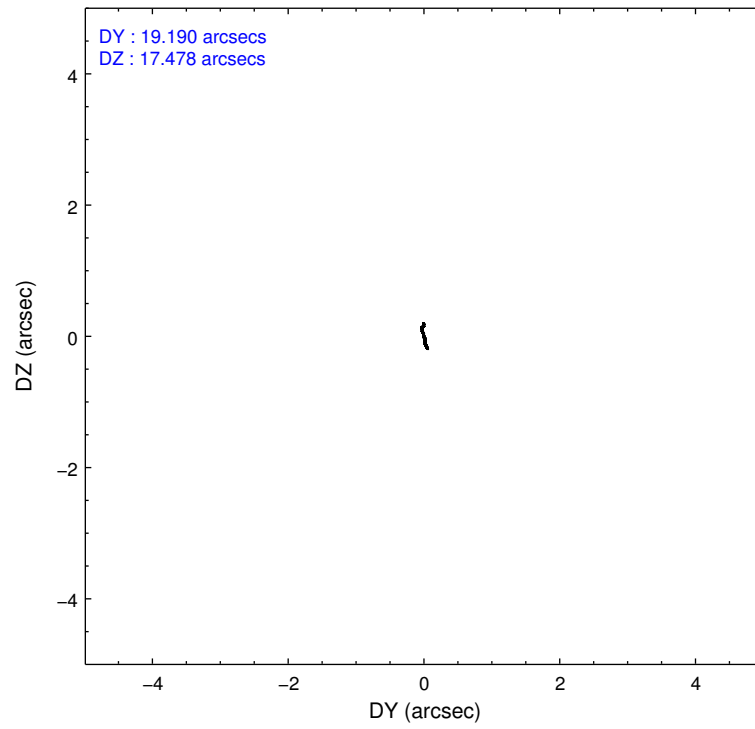
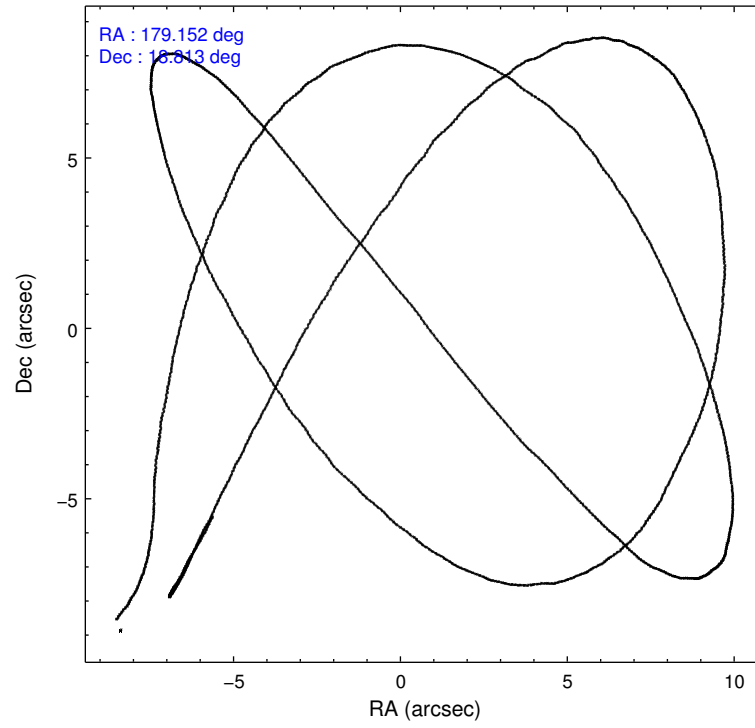
	ccd 6	ccd 7	ccd 8
level 1 events	3029	2916	4107
rejected events	2628	1439	3120
rejected %	86%	49%	75%

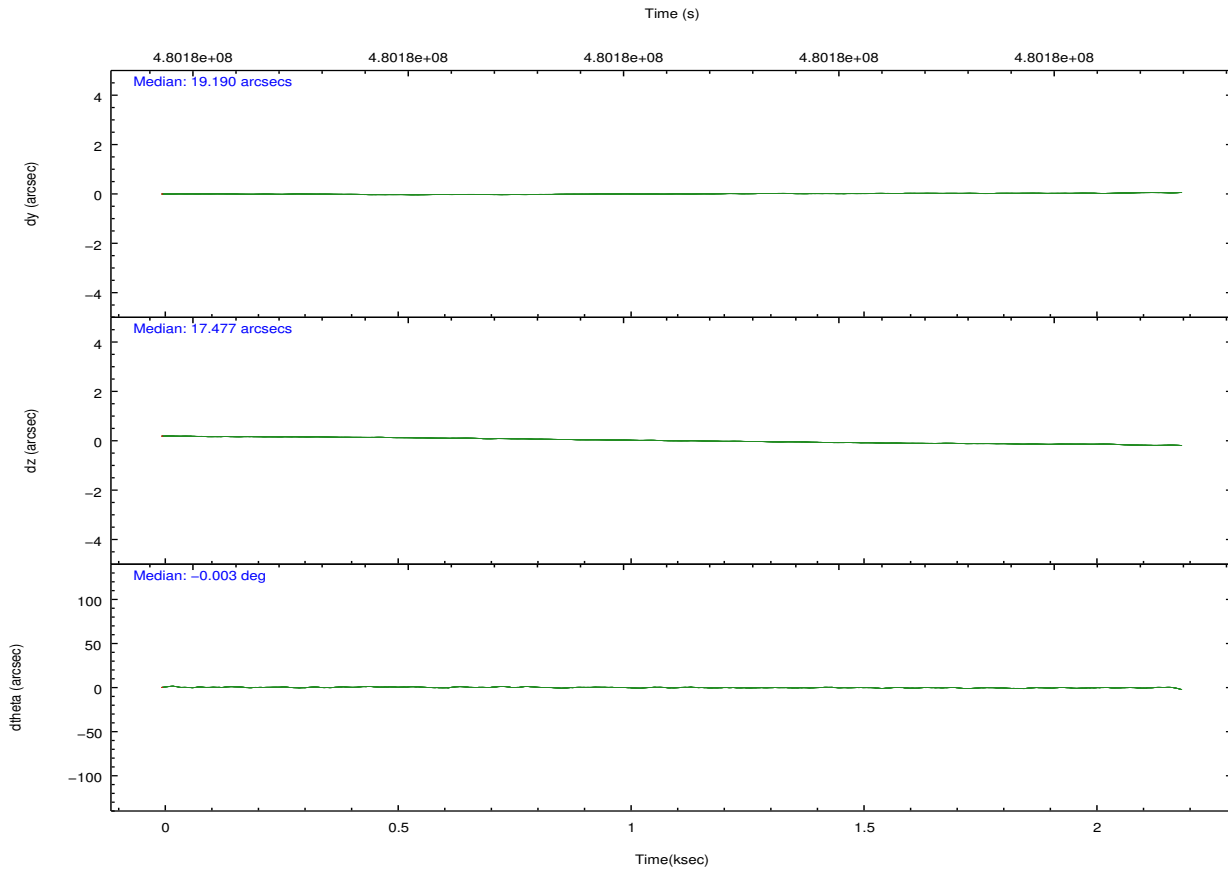
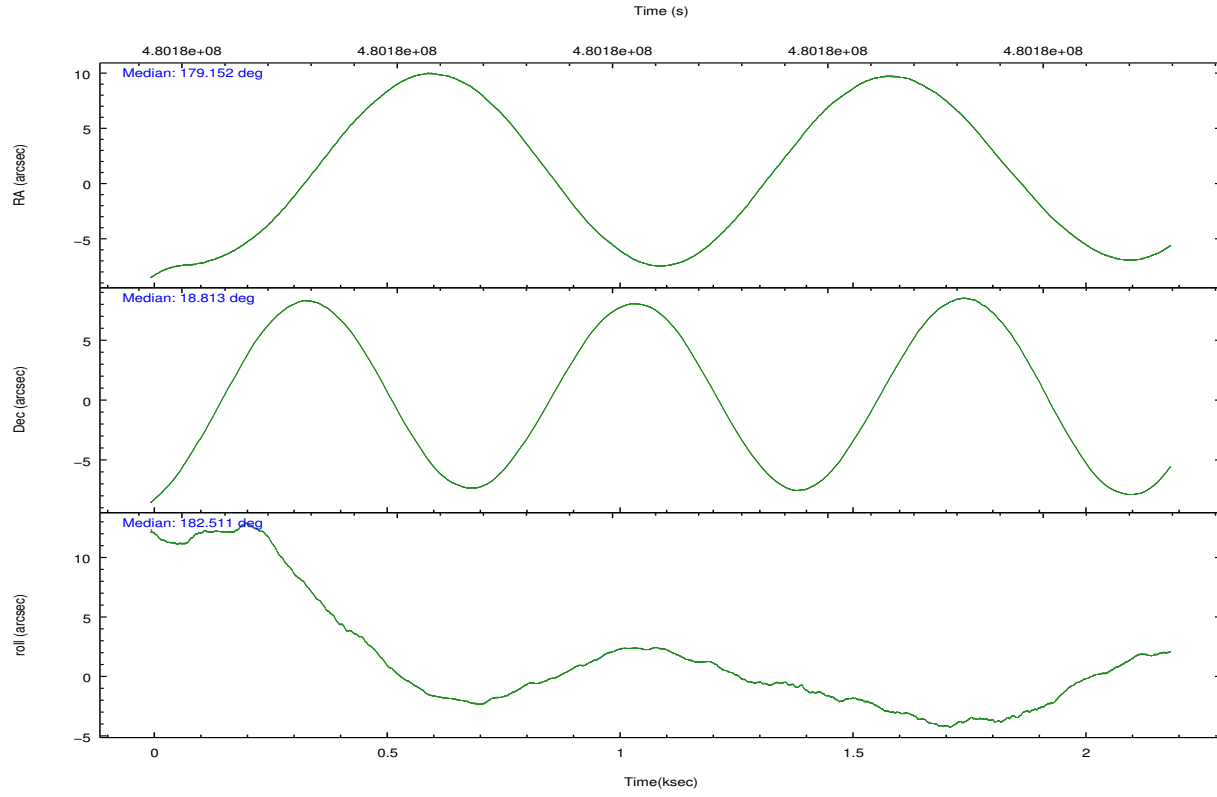
	ccd 6	ccd 7	ccd 8
grade 0 events	144	186	226
	4%	6%	5%
grade 1 events	0	5	2
	0%	0%	0%
grade 2 events	75	321	253
	2%	11%	6%
grade 3 events	60	162	111
	1%	5%	2%
grade 4 events	60	181	119
	1%	6%	2%
grade 5 events	103	337	149
	3%	11%	3%
grade 6 events	64	627	279
	2%	21%	6%
grade 7 events	2523	1097	2968
	83%	37%	72%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-678	ACIS-678	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	179.176715	179.1523699304913	Subarray requested	CUSTOM	1/4
[deg] Pointing Dec	18.828081	18.81295392009652	Subarray start row	385	385
[deg] Pointing Roll	182.354579	182.5190693981248	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	0.9
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	480177205.184000	480176407.28302			
Observation start date	2013-03-20T14:32:18	2013-03-20T14:20:07			
[s] Observation end time (MET)	480179205.184000	480179513.03318			
Observation end date	2013-03-20T15:05:38	2013-03-20T15:11:53			
Read mode	TIMED	TIMED			

2.3 Aspect



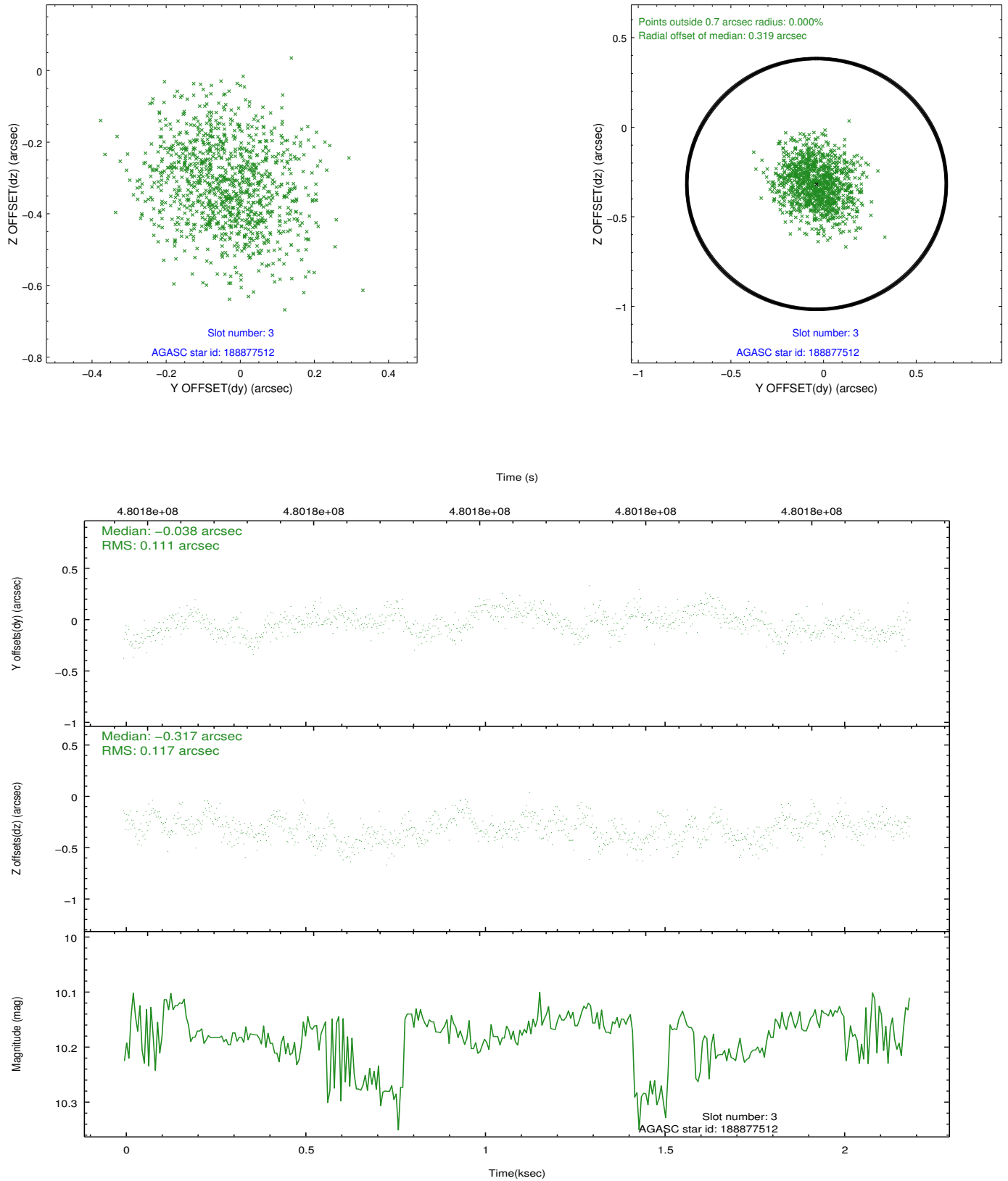


Slot Statistics

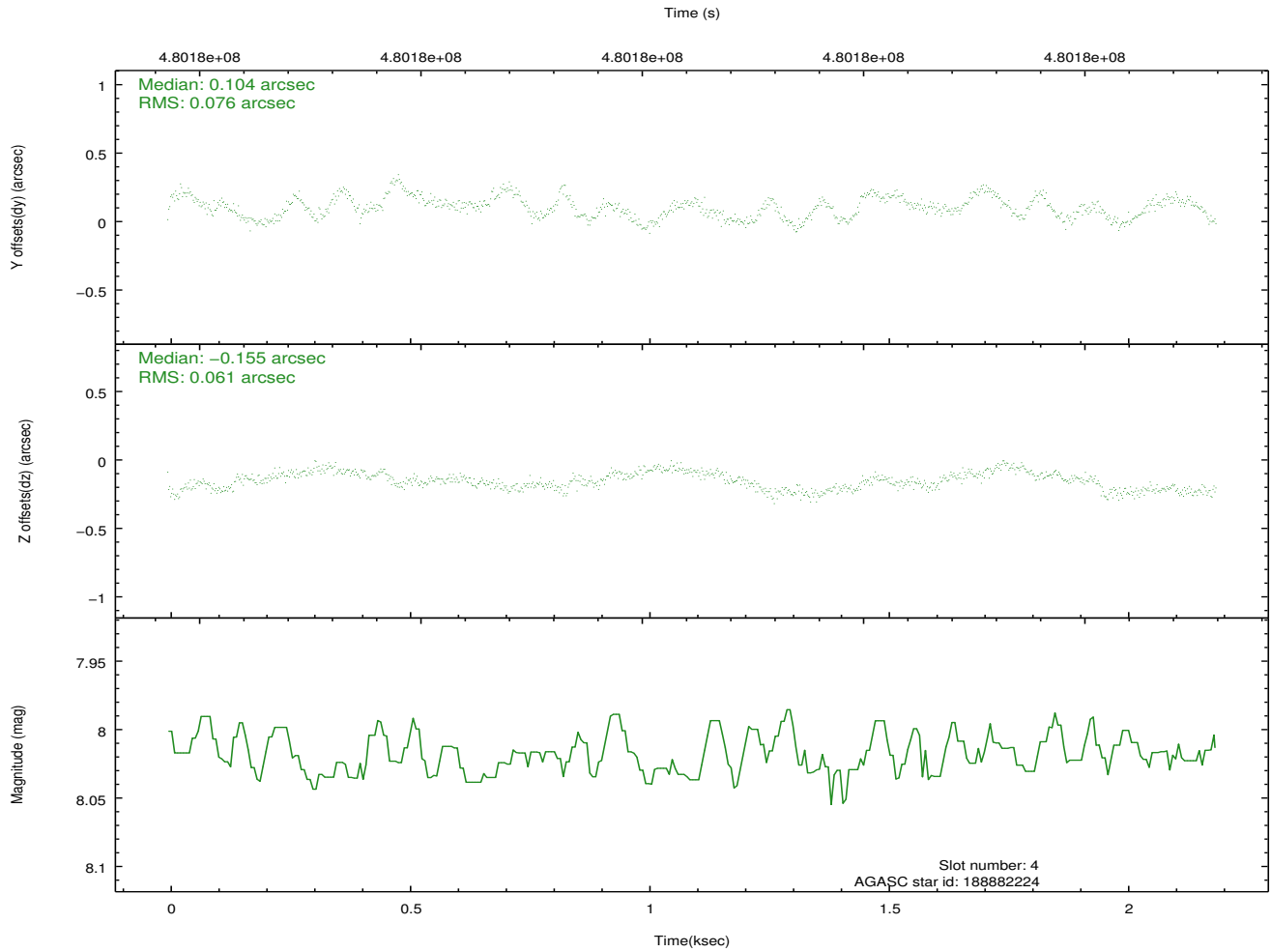
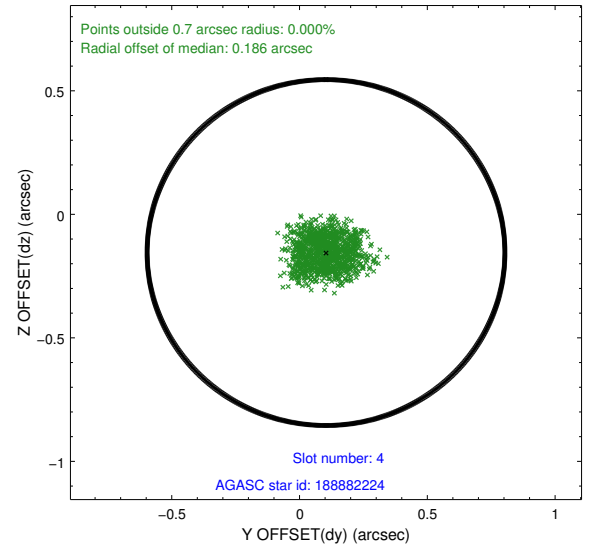
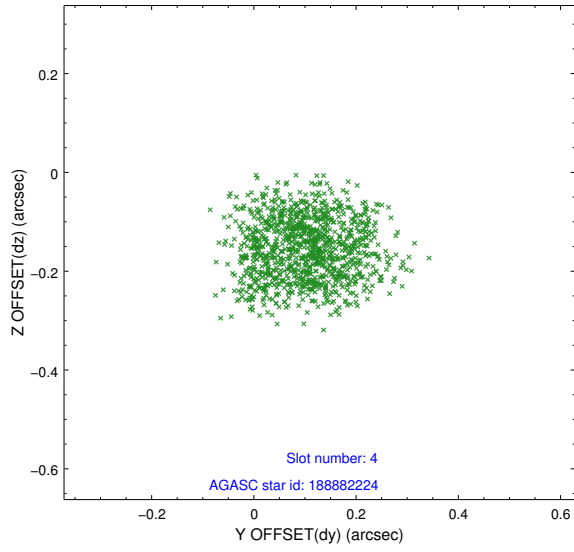
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.91	535	-0.091	-0.023	0.008	0.012	0.000000	0.000000	-772.41	-1738.93
1	FID		ACIS-S-4	7.00	535	0.232	0.050	0.005	0.010	0.000000	0.000000	2139.86	166.46
2	FID		ACIS-S-5	7.03	535	-0.173	-0.018	0.007	0.011	0.000000	0.000000	-1821.49	163.54
3	GUIDE	used	188877512	10.18	1064	-0.038	-0.317	0.175	0.272	178.945992	18.162369	886.17	2361.06
4	GUIDE	used	188882224	8.02	1069	0.104	-0.155	0.107	0.159	178.532165	18.169563	2300.57	2276.50
5	GUIDE	used	189140528	8.27	1069	-0.000	0.146	0.079	0.125	178.633618	19.411233	1764.08	-2174.13
6	GUIDE	used	189140672	9.08	1068	-0.051	0.151	0.091	0.149	178.601271	18.918622	1945.60	-411.18
7	GUIDE	used	189140696	8.44	1068	-0.019	0.167	0.109	0.185	178.646164	19.427835	1718.58	-2234.49

2.4 Star Slots

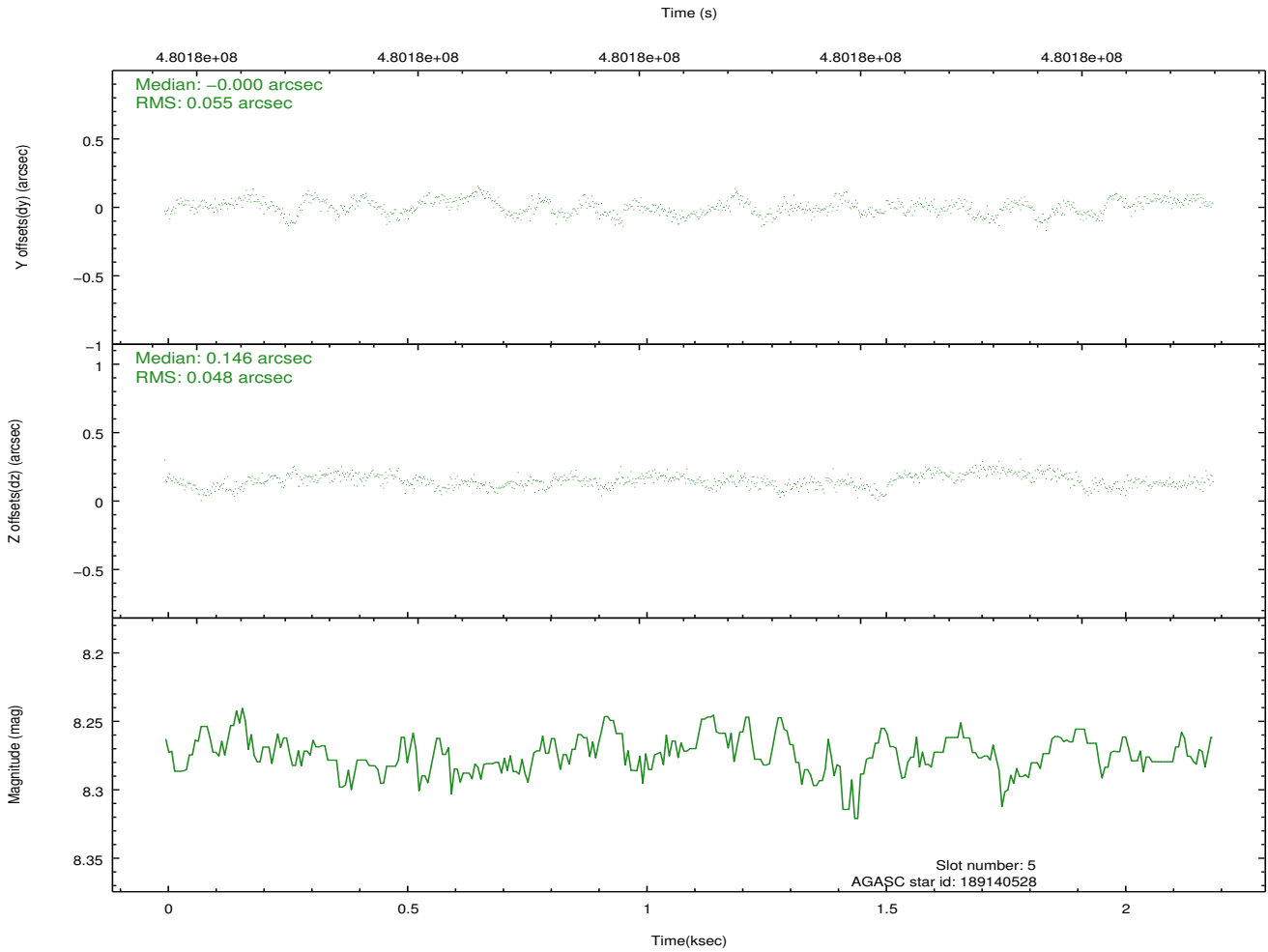
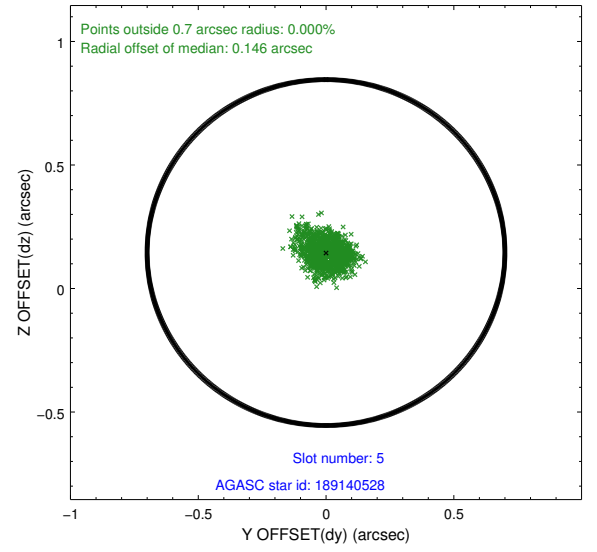
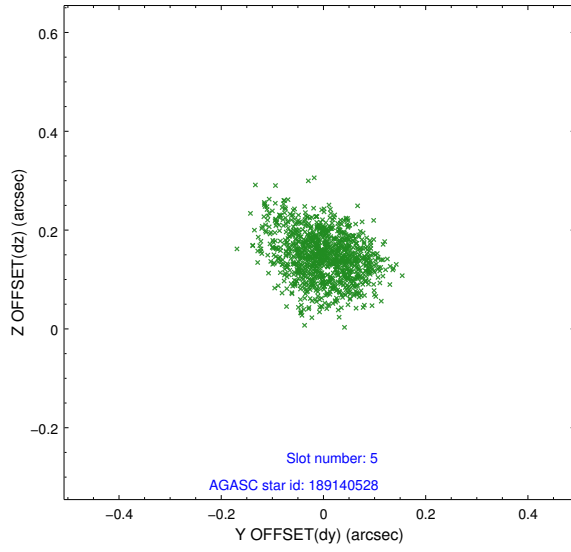
2.4.1 Slot 3



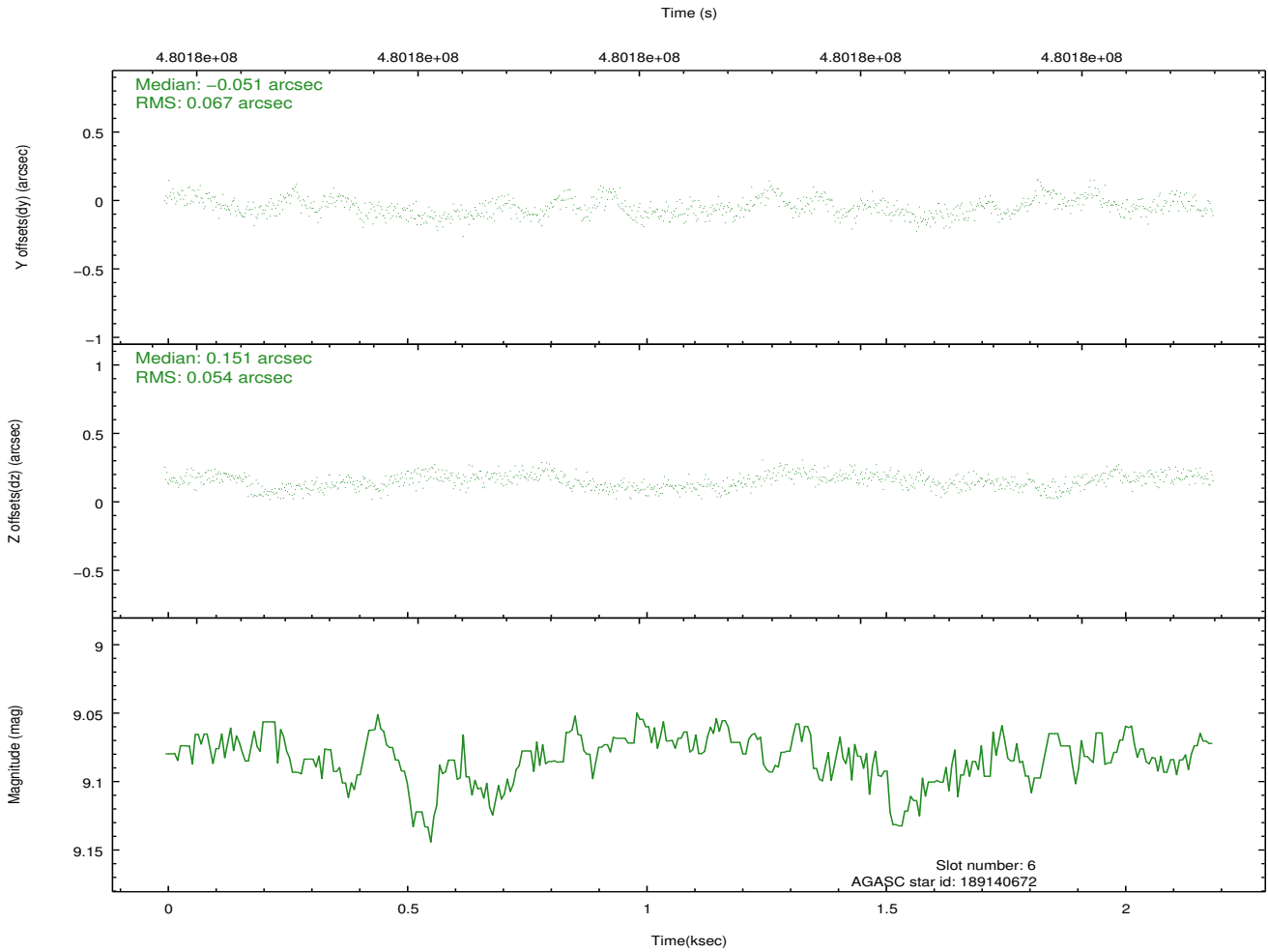
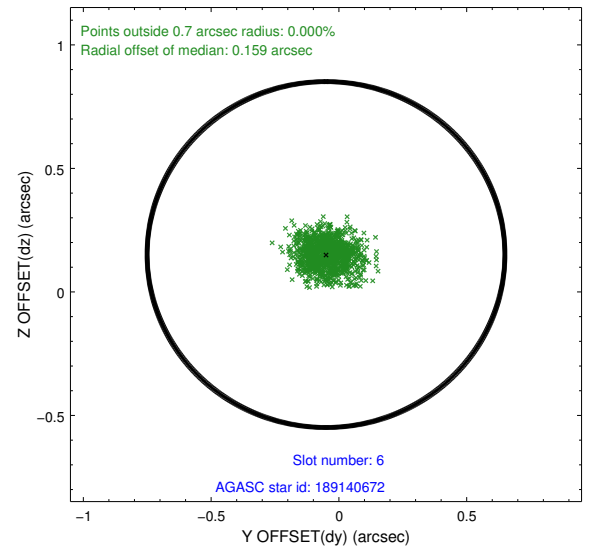
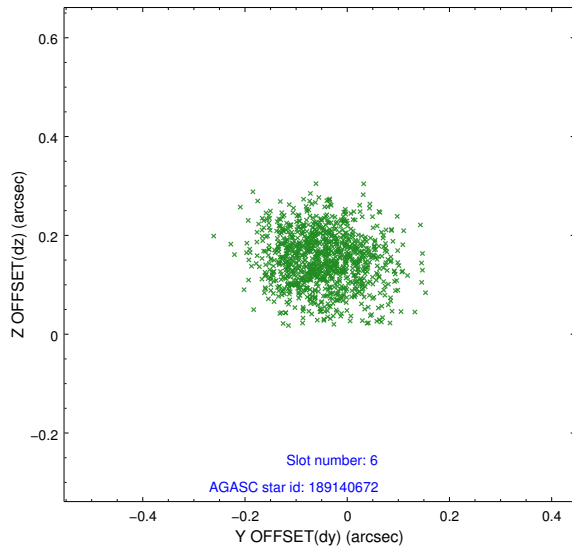
2.4.2 Slot 4



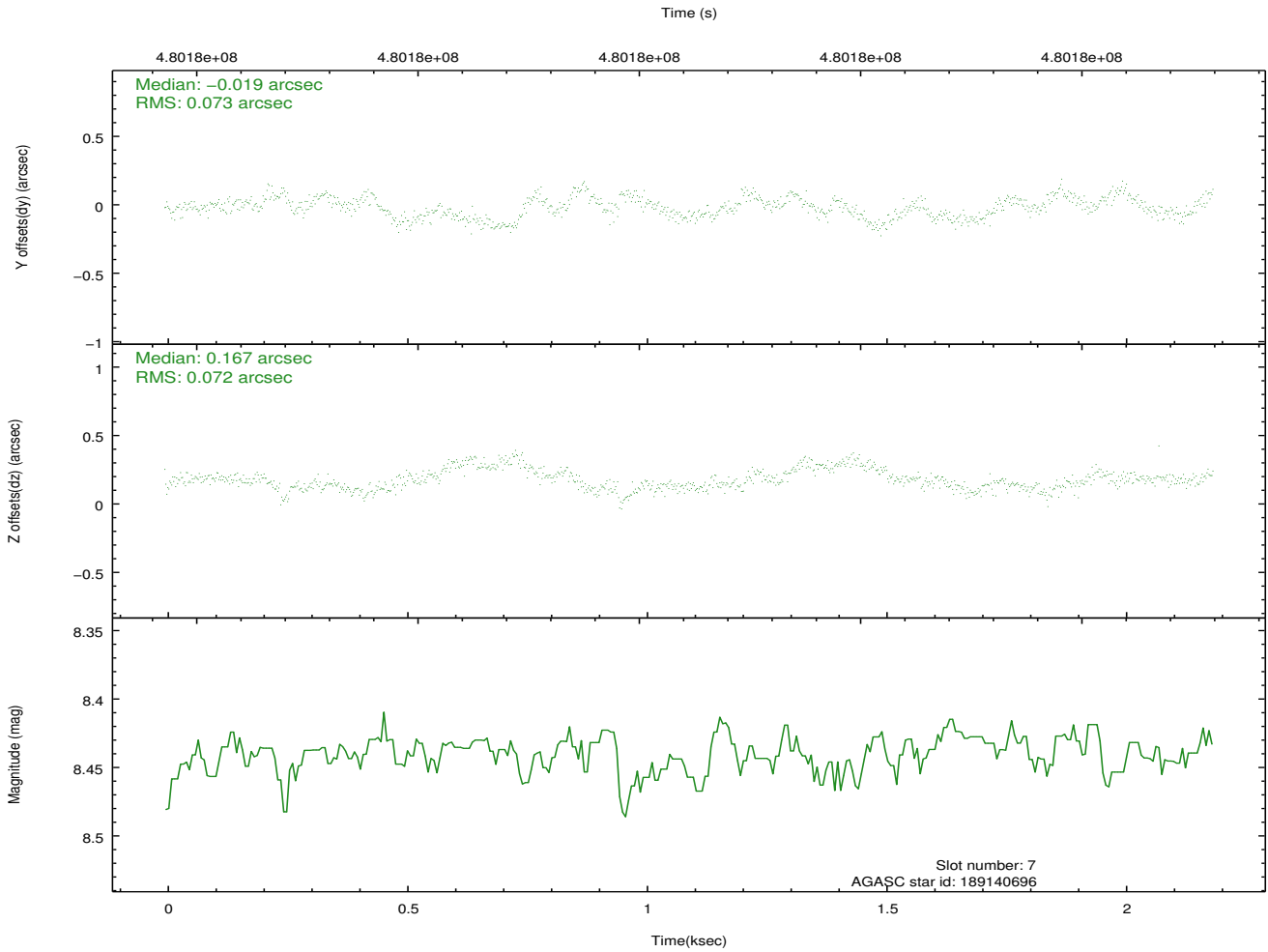
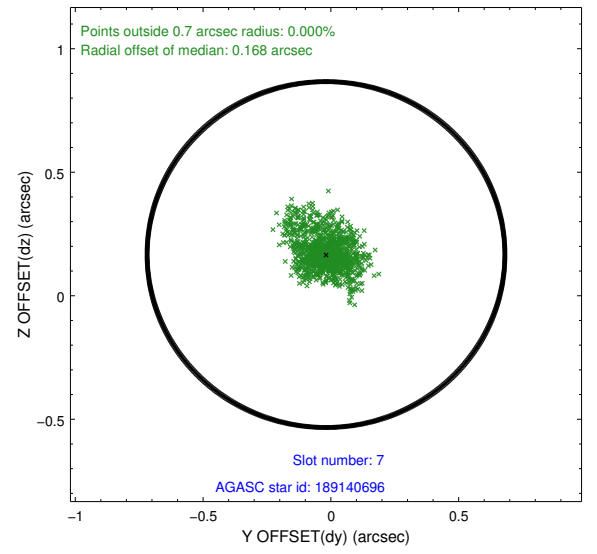
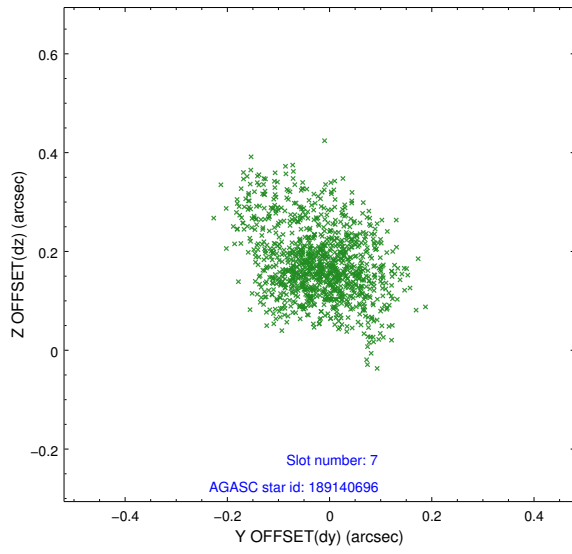
2.4.3 Slot 5



2.4.4 Slot 6

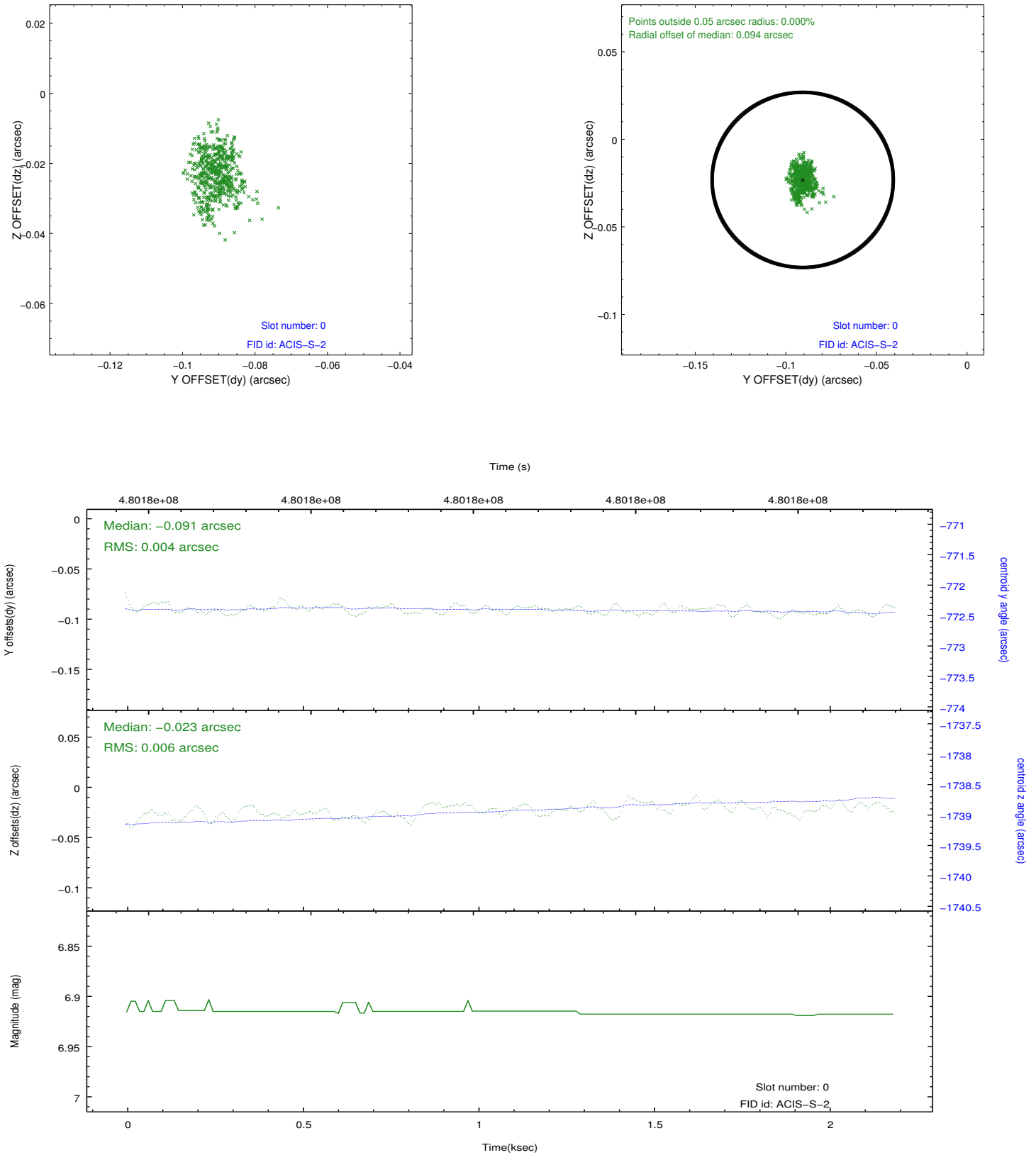


2.4.5 Slot 7

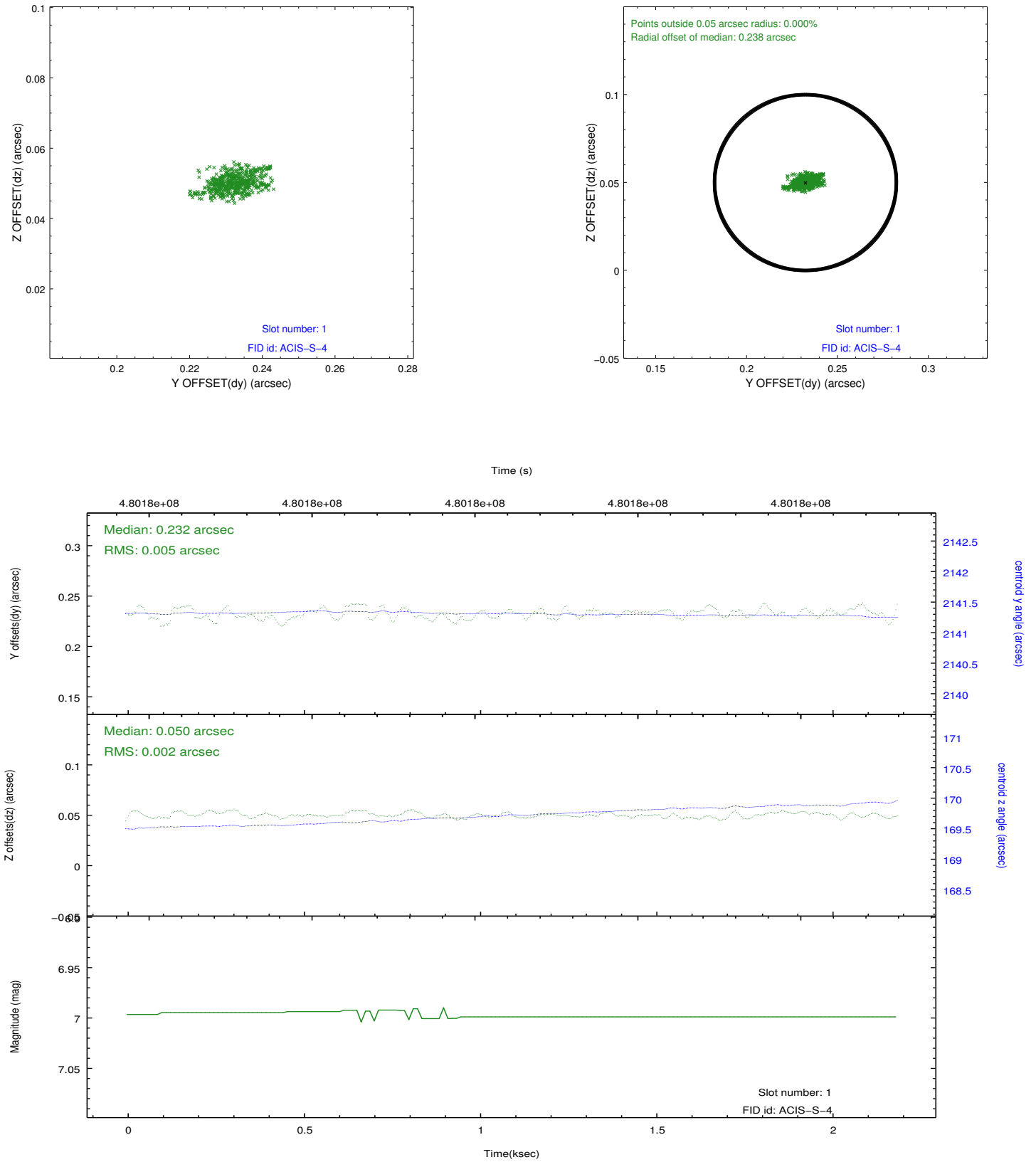


2.5 FID Slots

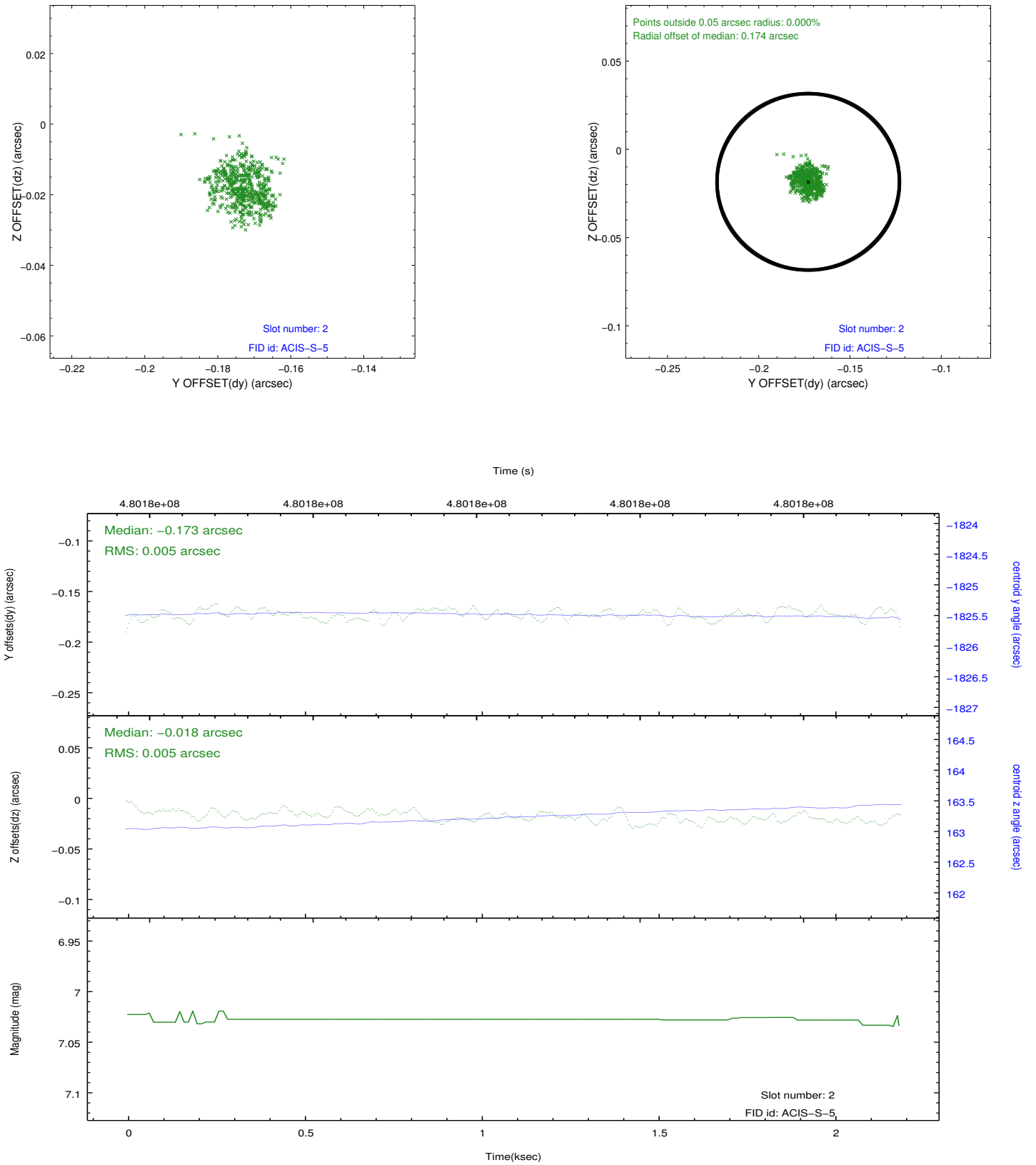
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2014.12.31
V&V Edition	2
V&V Disposition and Status	OK
V&V Charge Time	2.094124512136

A.2 Comments

These data have been reprocessed with new aspect alignment calibration files that correct small mean offsets (up to 0.4 arcsecs) and improve overall astrometric accuracy. The new calibration was determined using data from the time period being reprocessed and was performed using cross-correlation of X-ray sources with radio and optical counterparts.