

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 15555 - L2 Version 2
Chandra X-Ray Center

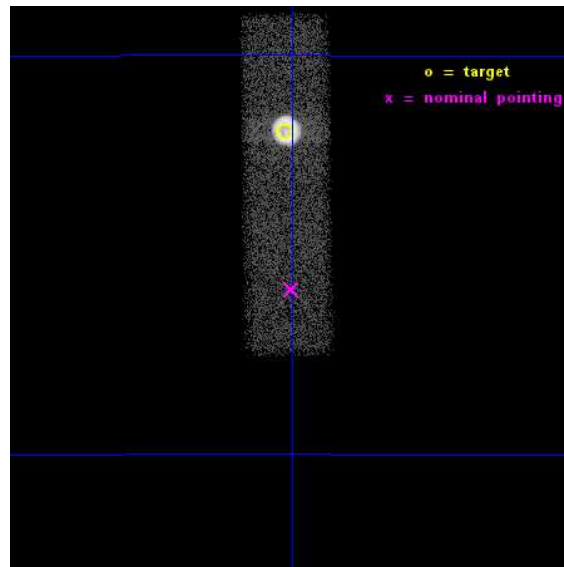
L2 Processing Date : Nov 30 2014

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1 Front

seq_num	590527	Sequence number
obs_id	15555	Observation id
title	AO-14 S3 Calibration Observations of E0102-72	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	E0102-72 S3,-120,-3.3,0,0	Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	16.01	Observer's specified target RA [deg]
dec_targ	-72.032028	Observer's specified target Dec [deg]
ra_nom	16.000673094218	Nominal RA [deg]
dec_nom	-72.097914294646	Nominal Dec [deg]
roll_nom	269.07682191209	Nominal Roll [deg]
revision	2	Processing version of data
ontime	25060.784401715	Sum of GTIs [s]
livetime	23837.900125288	Livetime [s]
ontime7	25060.784401715	Sum of GTIs [s]
l2events	137652	Number of level 2 events



2 OBI

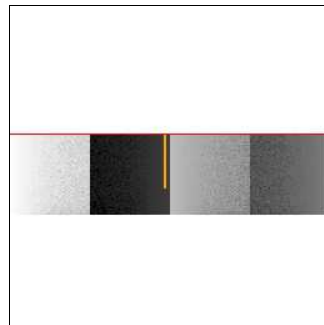
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	25000.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	25060.784401715	Sum of GTIs [s]
caldbver	4.6.4	 	ontime7	25060.784401715	Sum of GTIs [s]
date	2014-12-01T02:04:27	Date and time of file creation	l1events	156952	Number of level 1 events
revision	2	Processing version of data			

2.1.4 Events

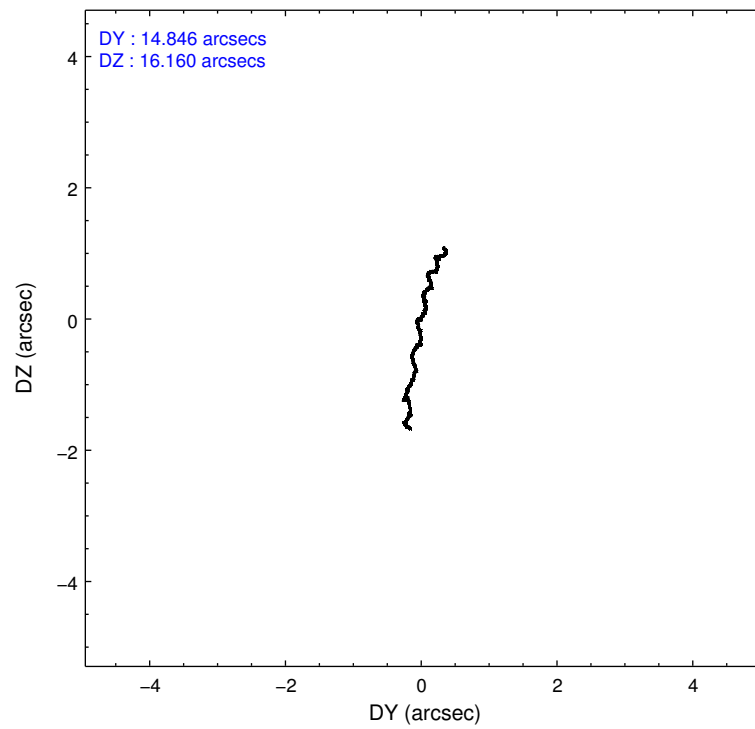
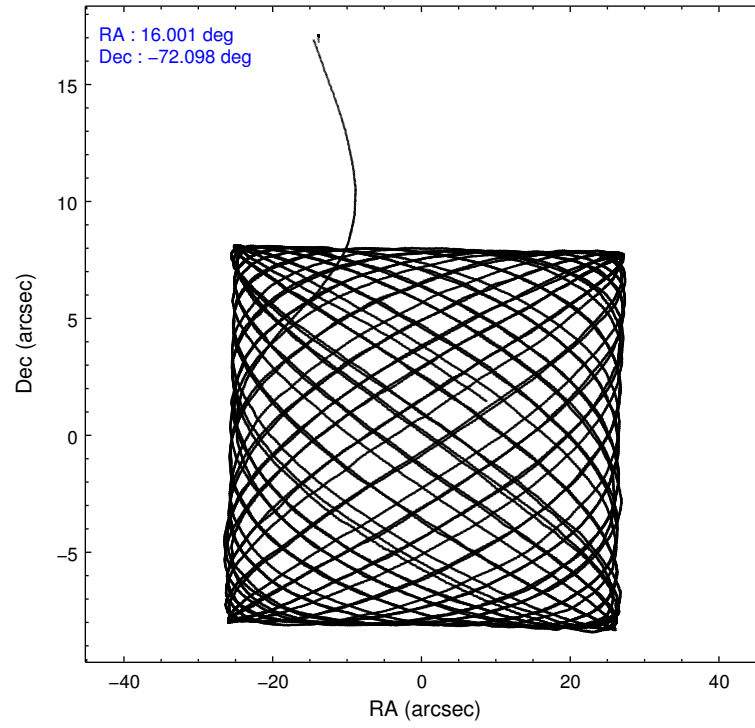
	ccd 7
level 1 events	156952
rejected events	18587
rejected %	11%

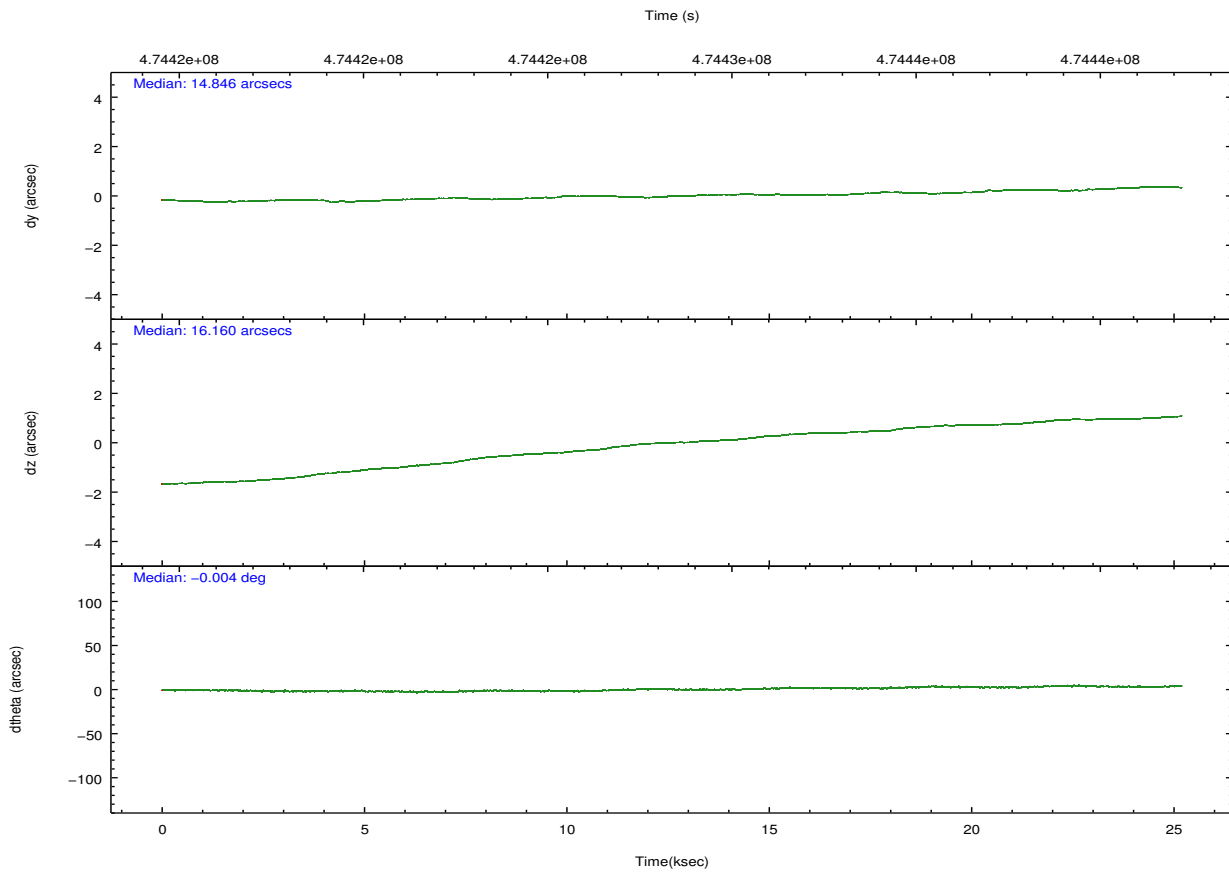
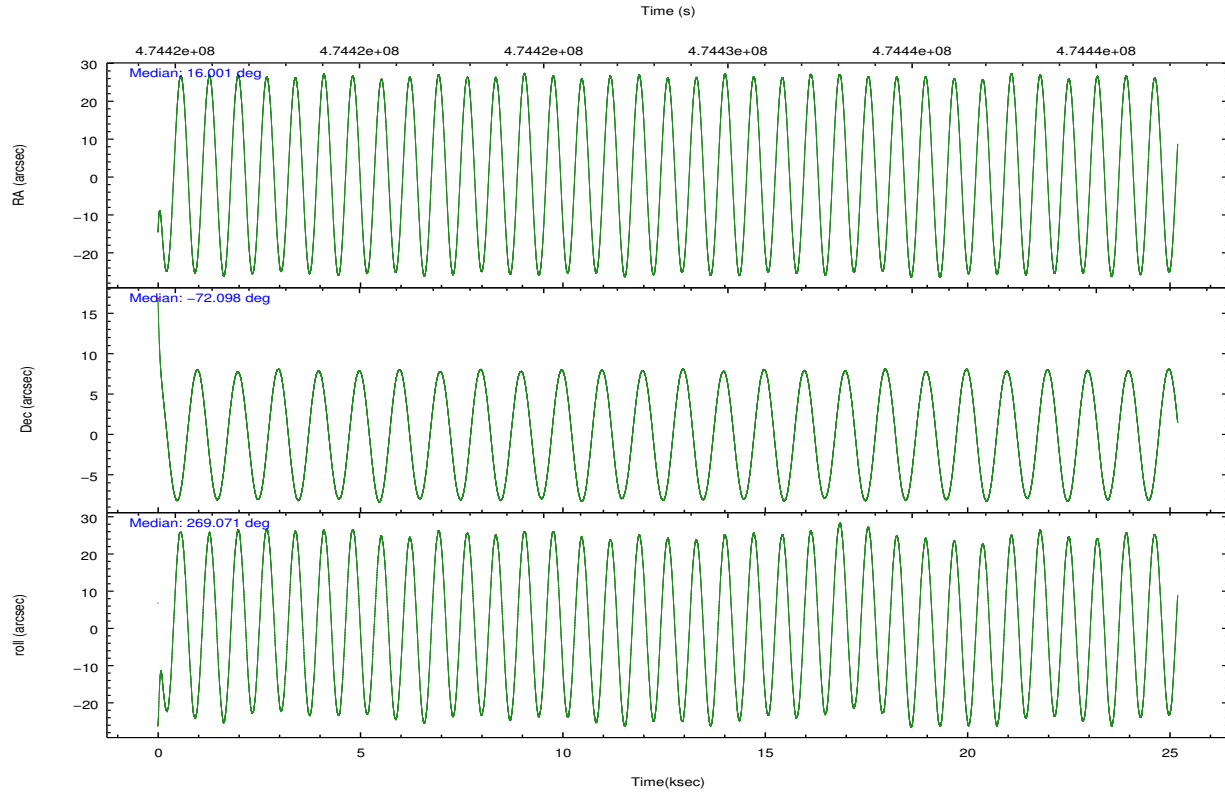
	ccd 7
grade 0 events	46452
	29%
grade 1 events	199
	0%
grade 2 events	35902
	22%
grade 3 events	16350
	10%
grade 4 events	15968
	10%
grade 5 events	4853
	3%
grade 6 events	23697
	15%
grade 7 events	13531
	8%

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	15.956532	16.0006730942175	Subarray requested	CUSTOM	1/4
[deg] Pointing Dec	-72.074216	-72.09791429464624	Subarray start row	360	360
[deg] Pointing Roll	268.878195	269.0768219120881	Subarray row count	256	256
[s] Window start time (MET)	470707267.184000	470707267.184000	Alternating exposures requested	N	N
[s] Window stop time (MET)	483667267.184000	483667267.184000	[s] Primary exposure time	0.000000	0.8
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	474415965.184000	474414931.17176			
Observation start date	2013-01-12T22:11:38	2013-01-12T21:55:31			
[s] Observation end time (MET)	474440965.184000	474442069.58573			
Observation end date	2013-01-13T05:08:18	2013-01-13T05:27:49			
Read mode	TIMED	TIMED			

2.3 Aspect



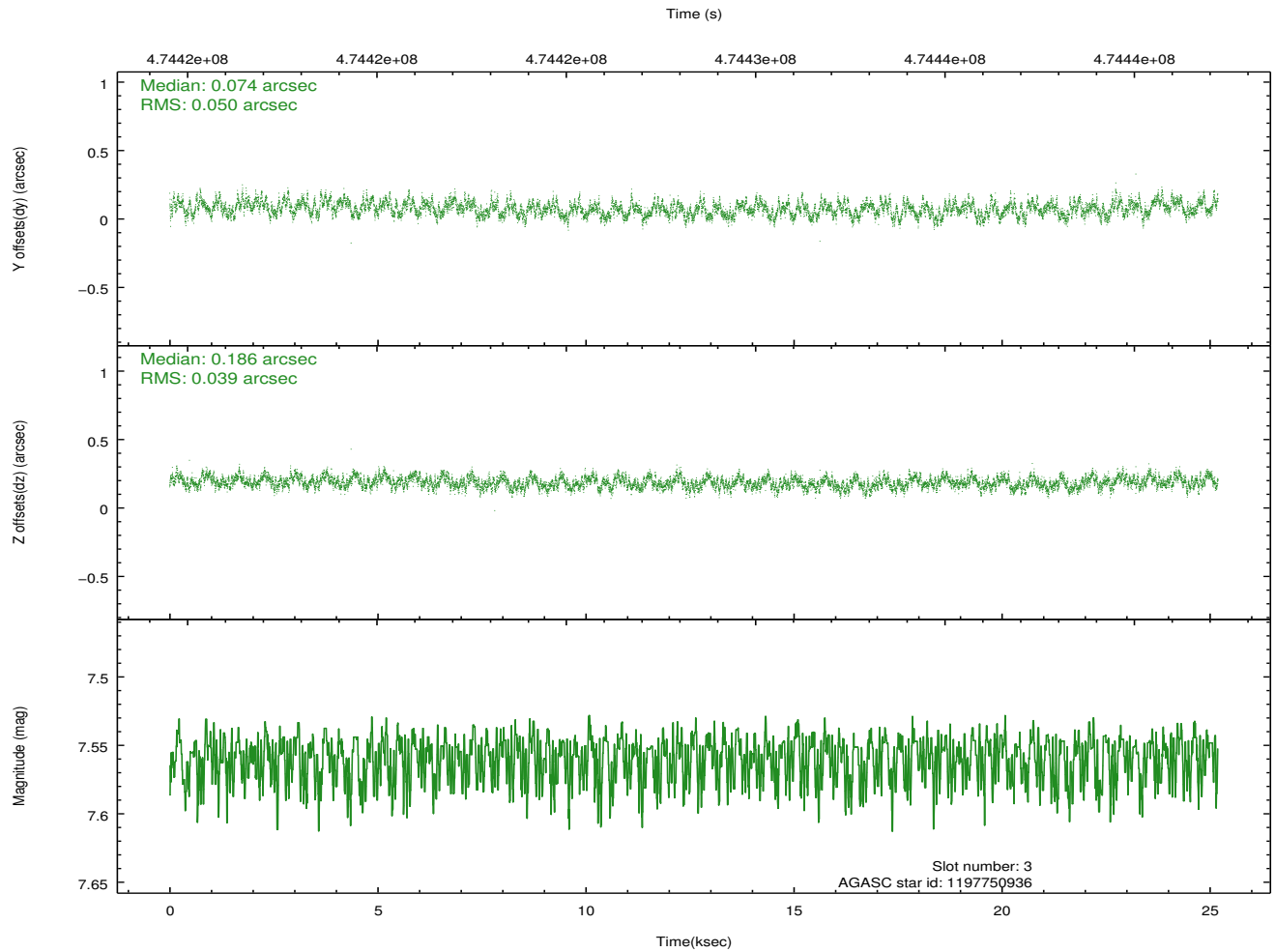
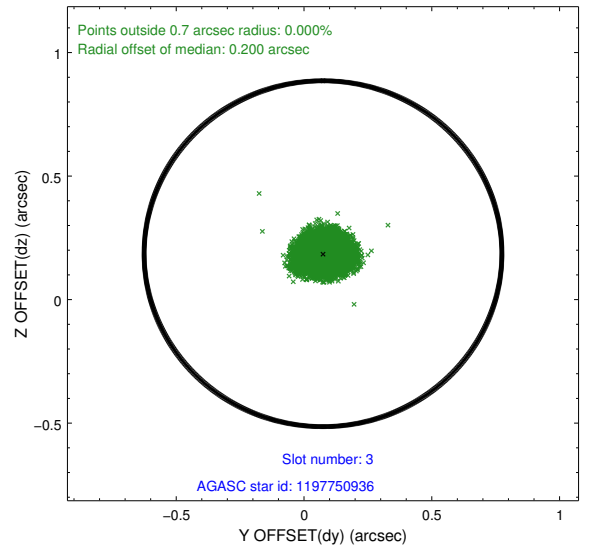
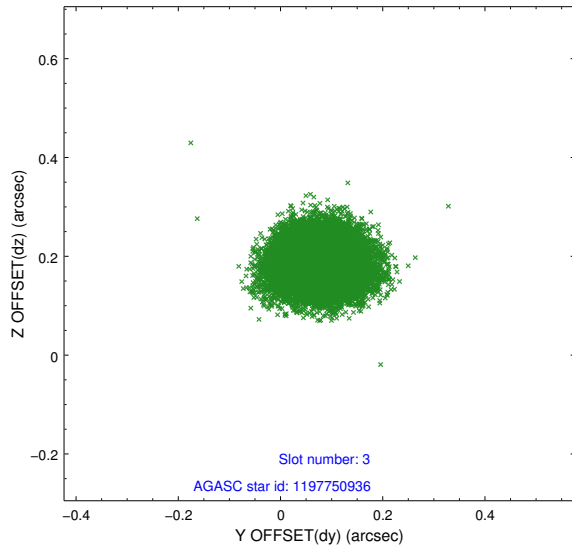


Slot Statistics

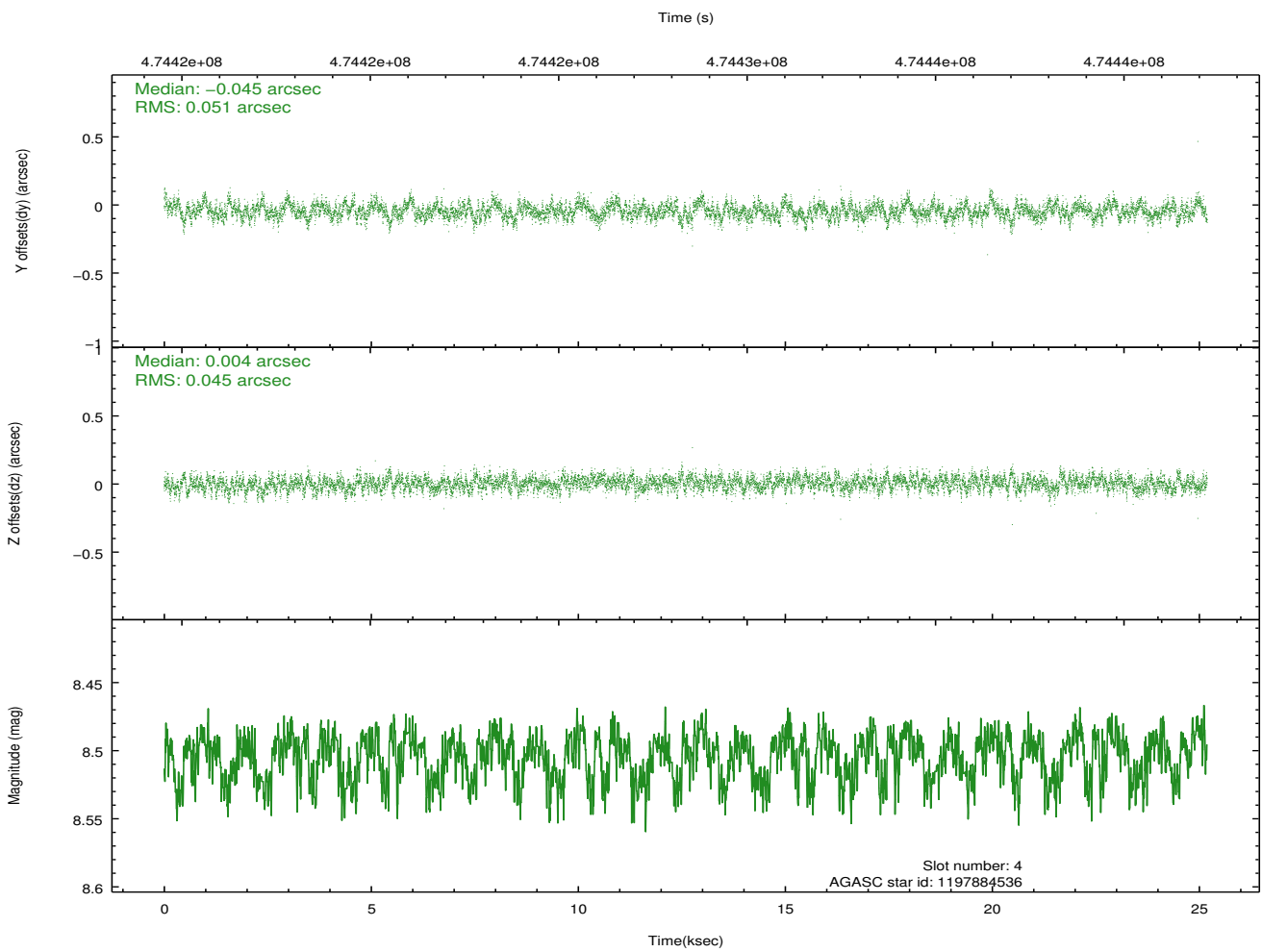
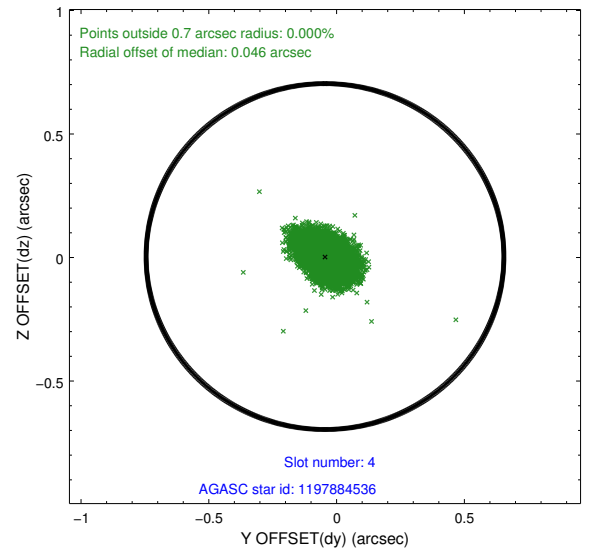
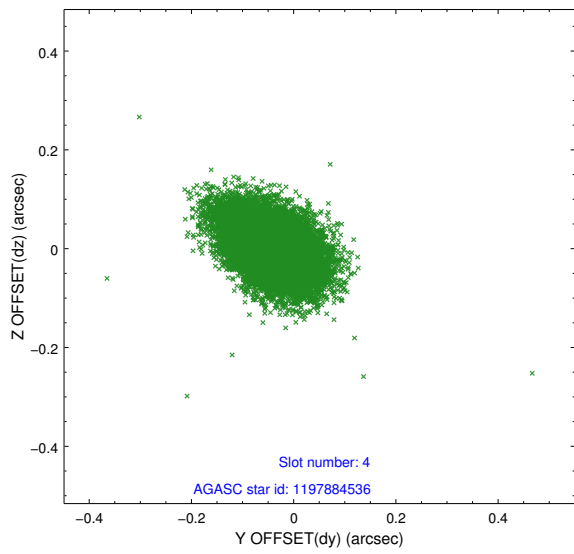
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.96	6146	-0.105	-0.024	0.016	0.024	0.000000	0.000000	-767.93	-1737.43
1	FID		ACIS-S-4	7.04	6146	0.246	0.057	0.010	0.022	0.000000	0.000000	2145.65	171.00
2	FID		ACIS-S-5	7.07	6146	-0.171	-0.025	0.015	0.022	0.000000	0.000000	-1820.68	164.74
3	GUIDE	used	1197750936	7.56	12287	0.074	0.186	0.069	0.106	15.387940	-71.549550	-1871.73	-684.44
4	GUIDE	used	1197884536	8.50	12288	-0.045	0.004	0.071	0.119	17.160729	-71.835289	-872.98	1334.44
5	GUIDE	used	1197885328	7.24	12290	0.050	-0.164	0.071	0.111	16.283090	-71.733943	-1231.38	345.64
6	GUIDE	used	1198189696	7.37	12290	-0.012	0.095	0.059	0.094	15.223750	-72.697522	2264.02	-739.83
7	GUIDE	used	1198283128	7.80	12290	-0.070	-0.123	0.055	0.086	17.272580	-72.642428	2033.25	1453.52

2.4 Star Slots

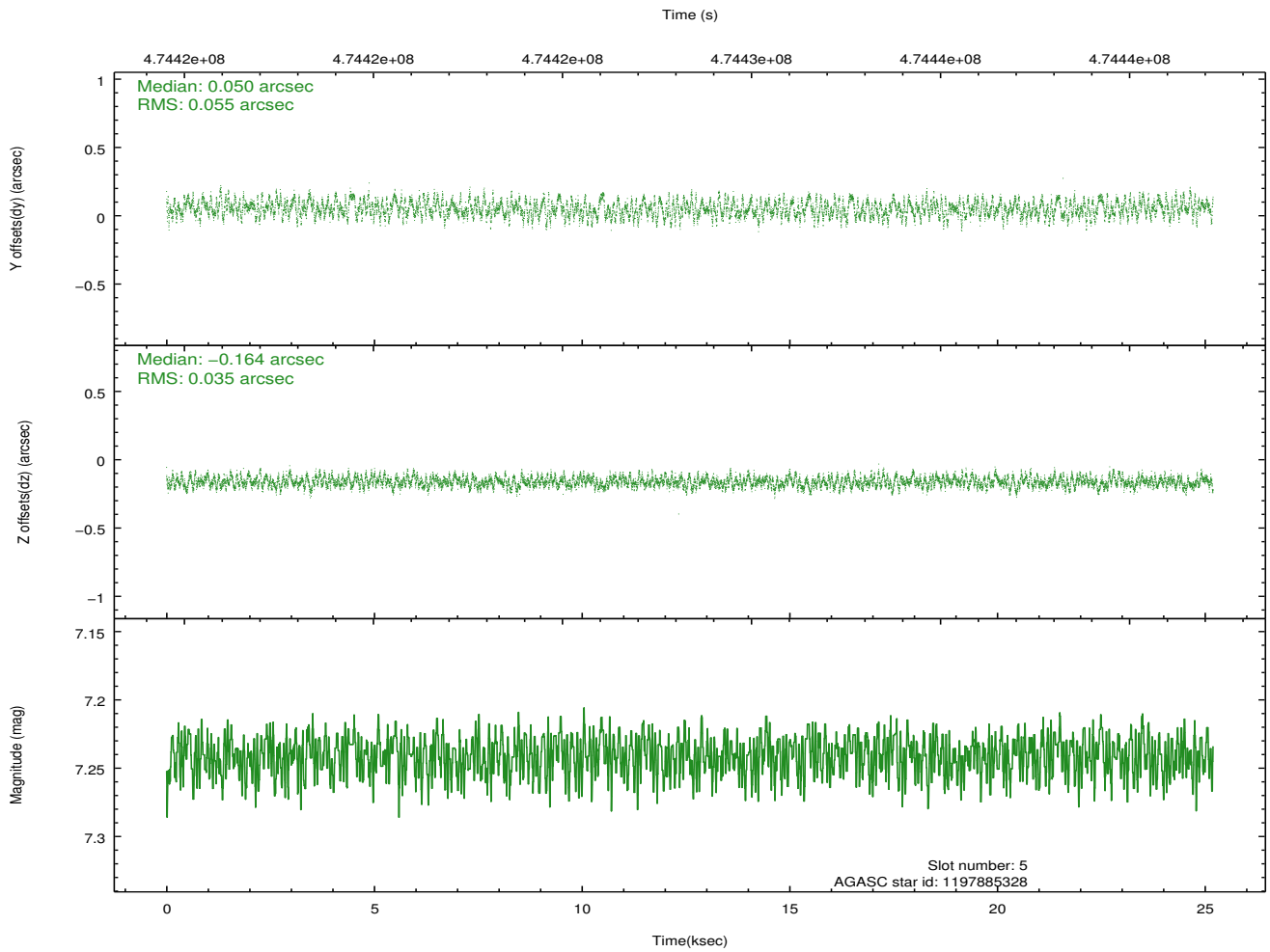
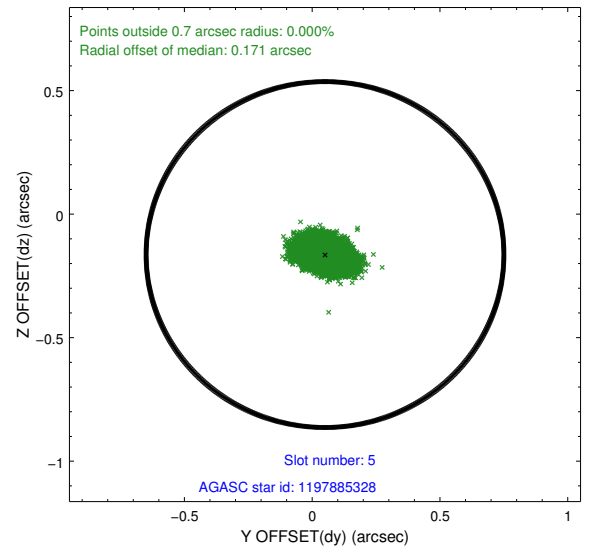
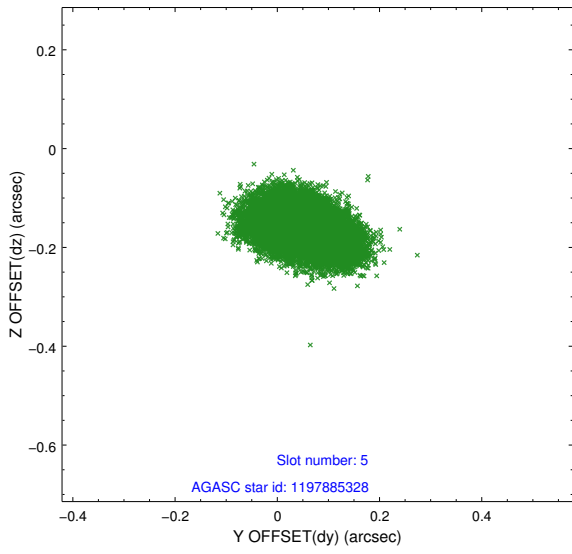
2.4.1 Slot 3



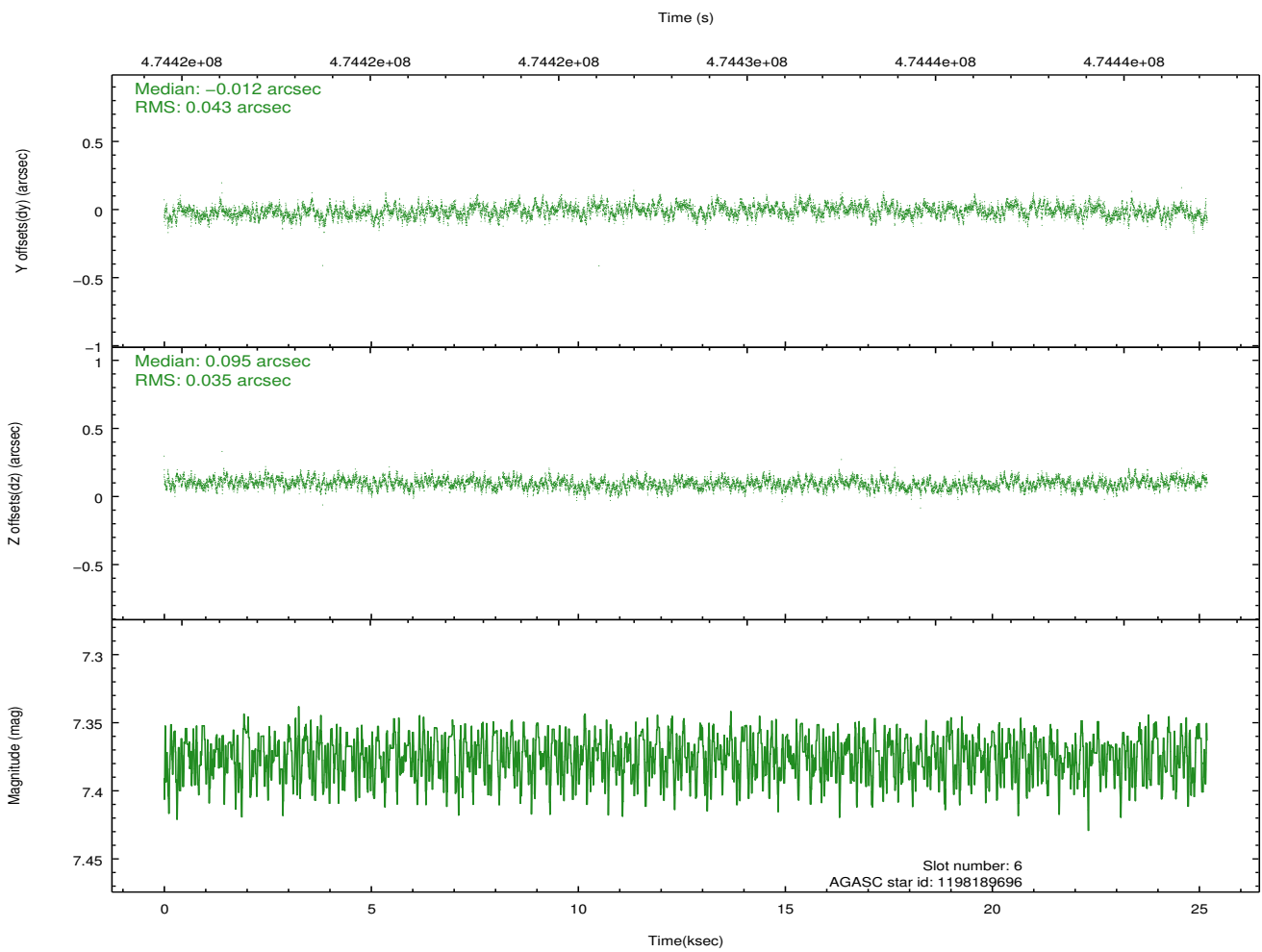
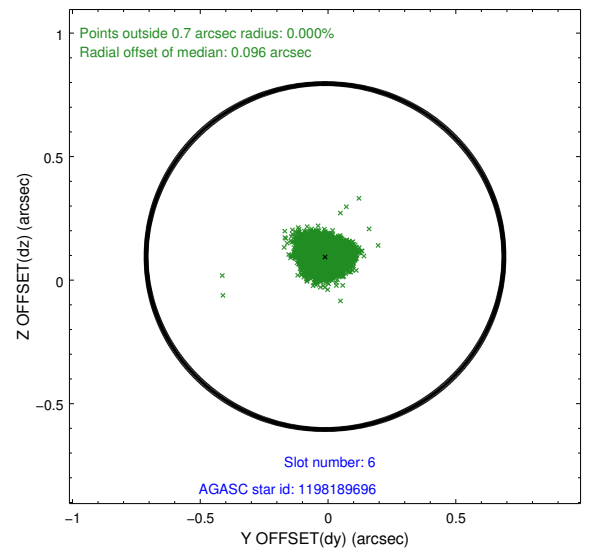
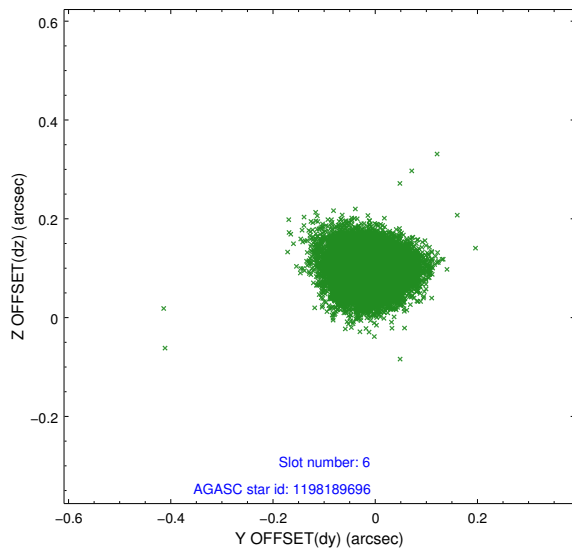
2.4.2 Slot 4



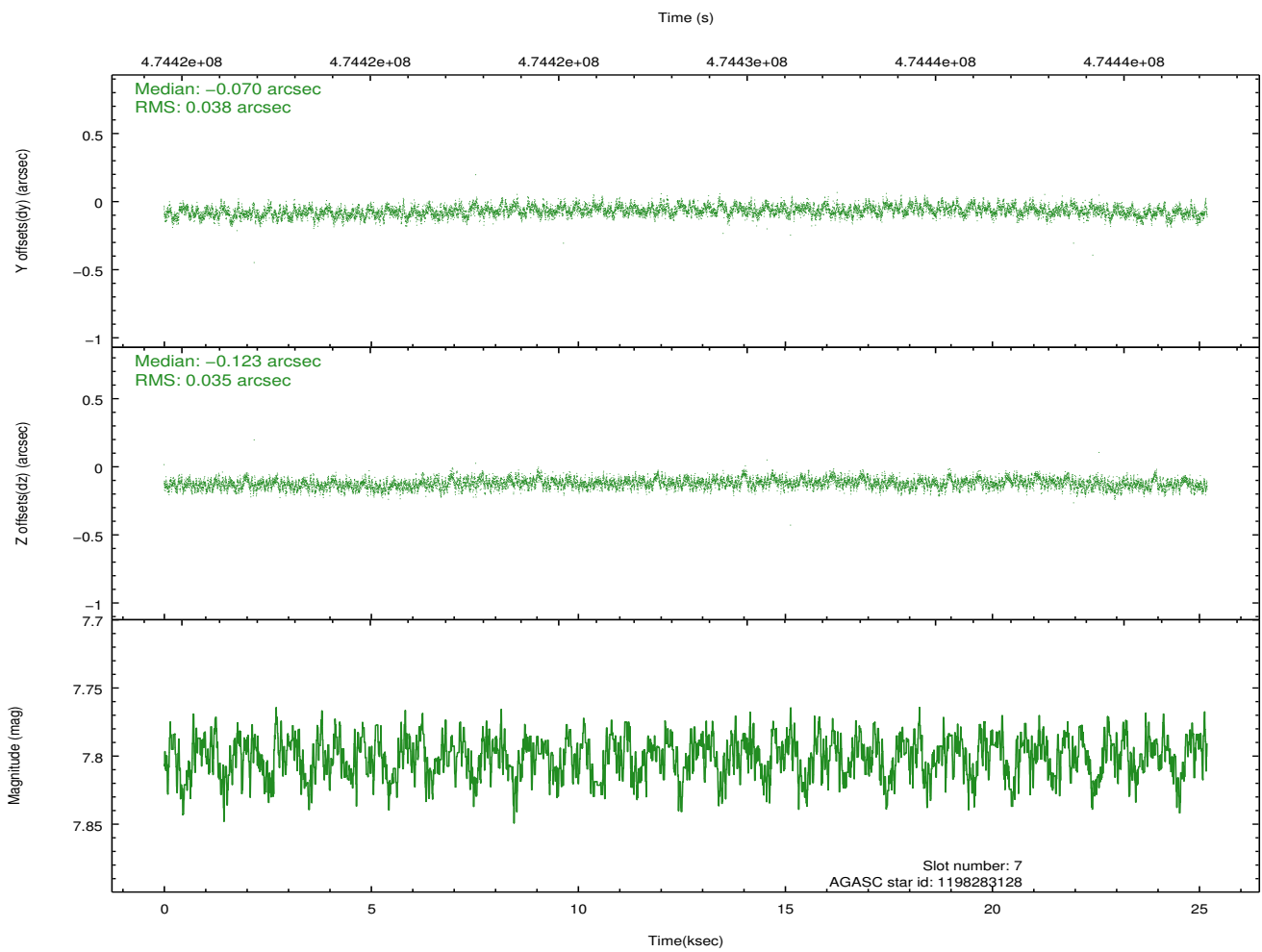
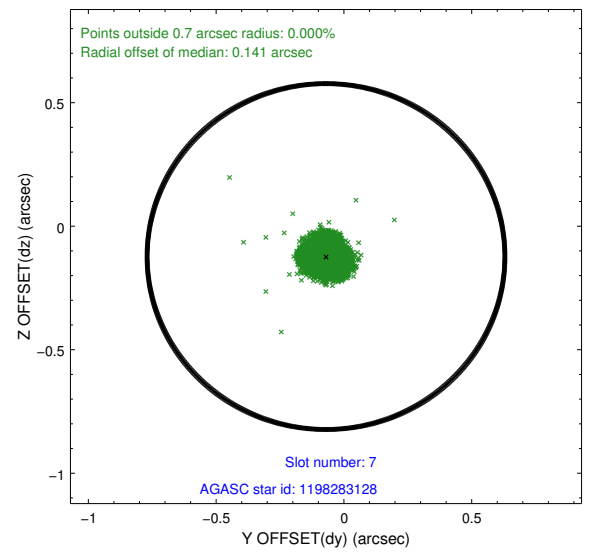
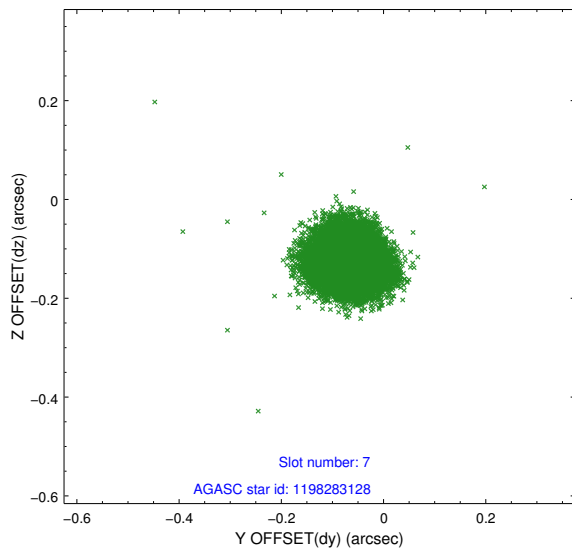
2.4.3 Slot 5



2.4.4 Slot 6

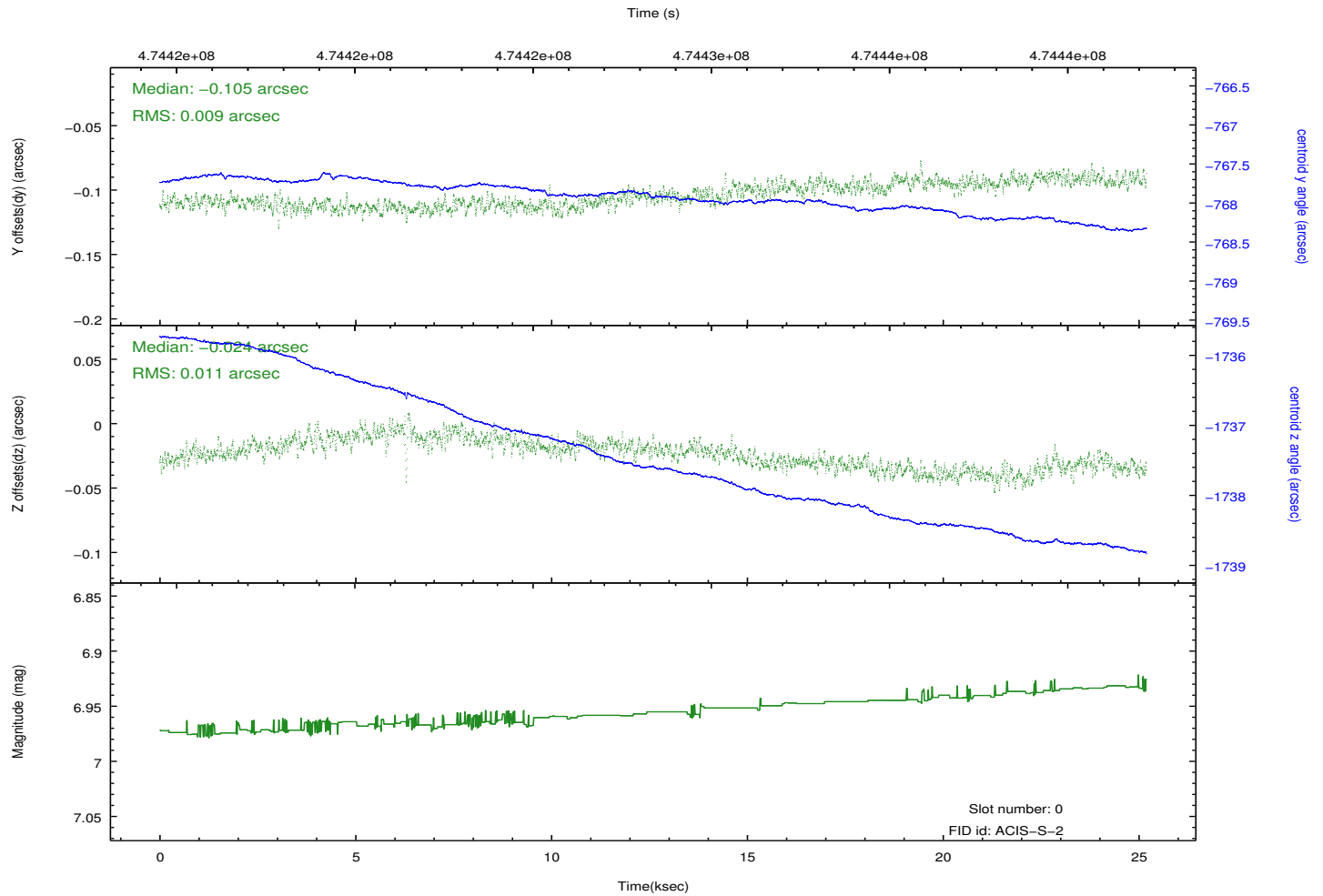
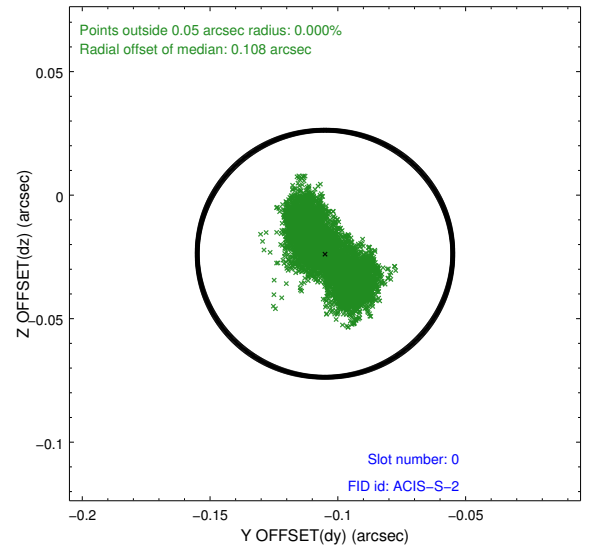
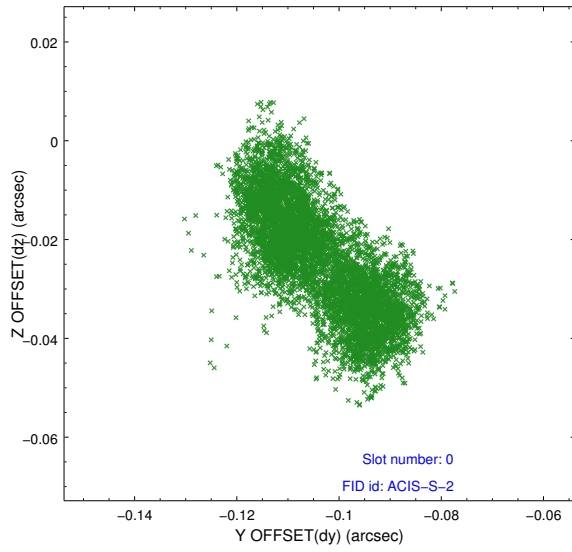


2.4.5 Slot 7

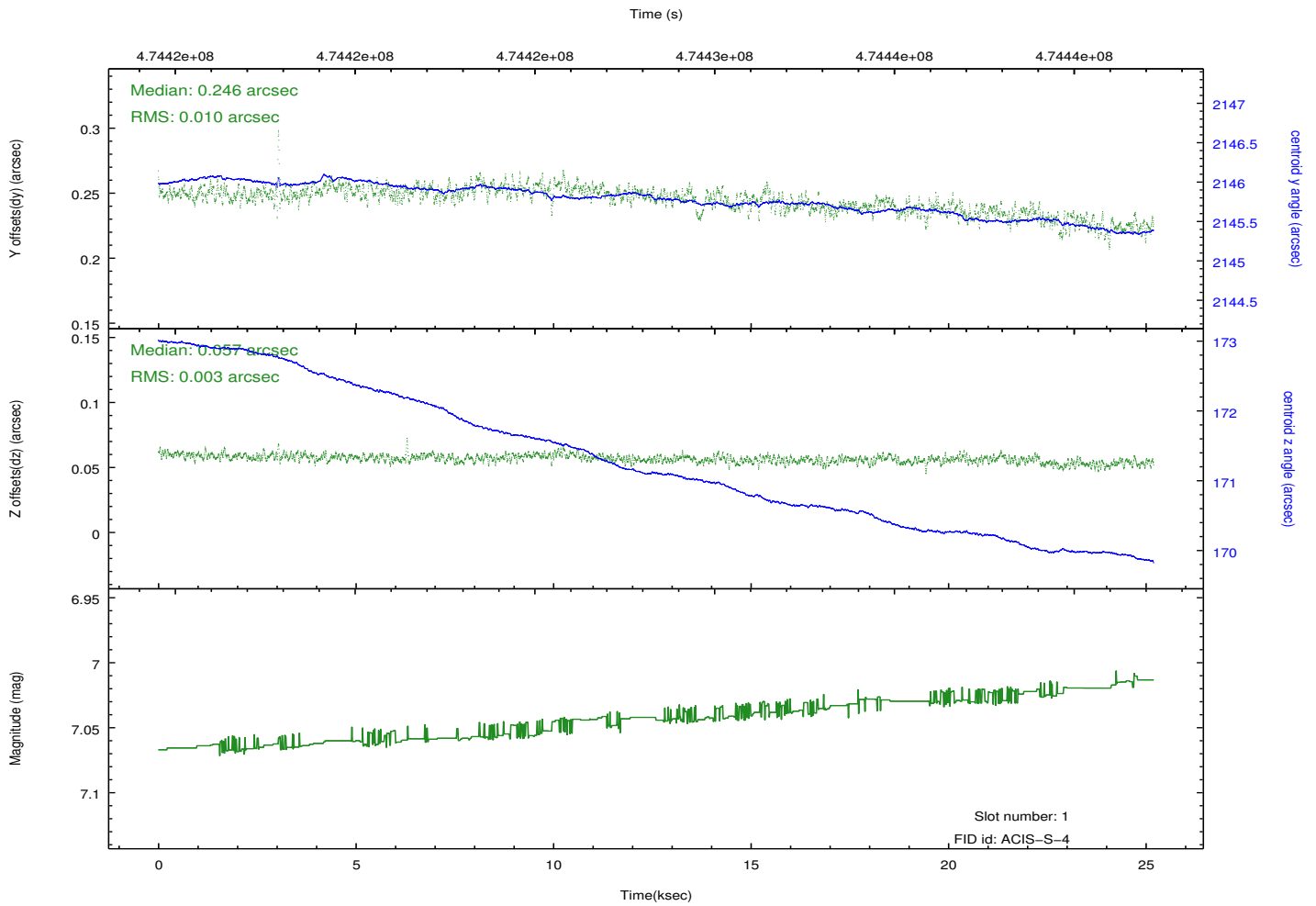
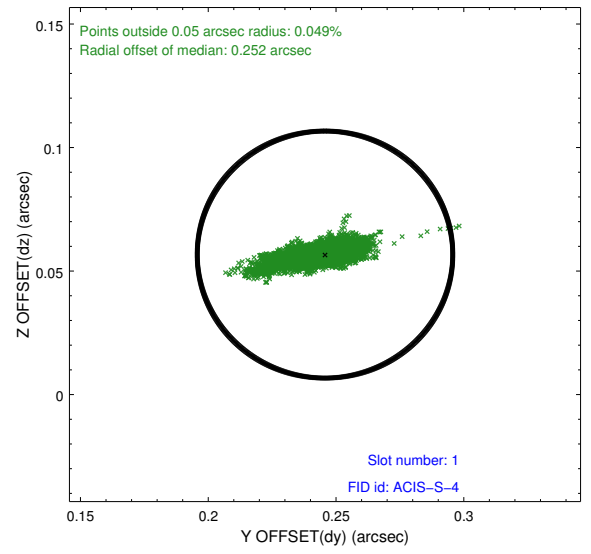
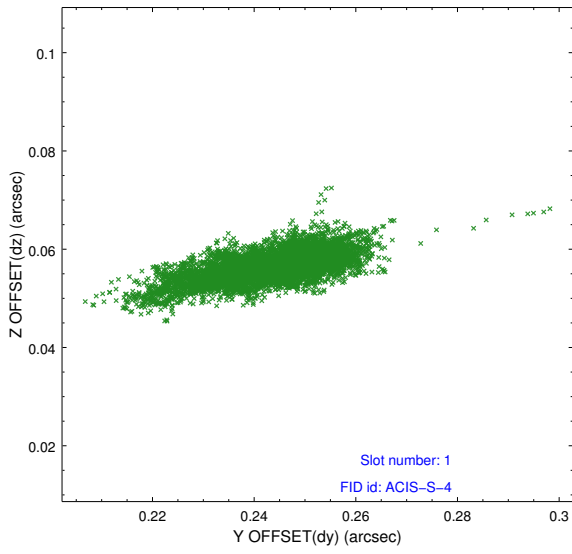


2.5 FID Slots

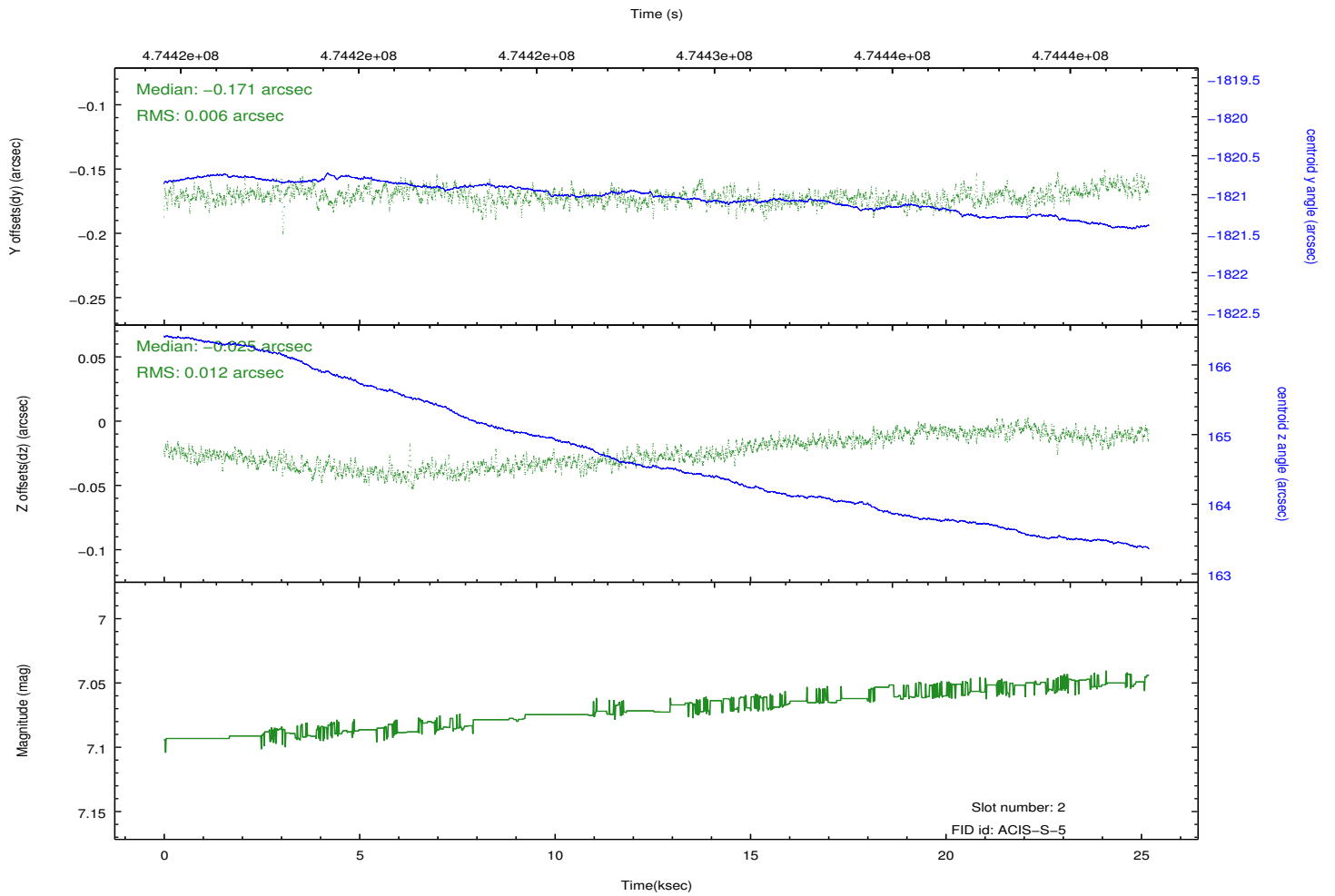
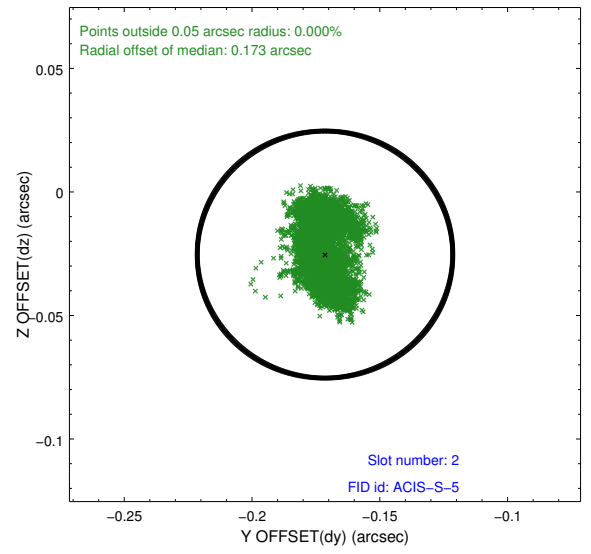
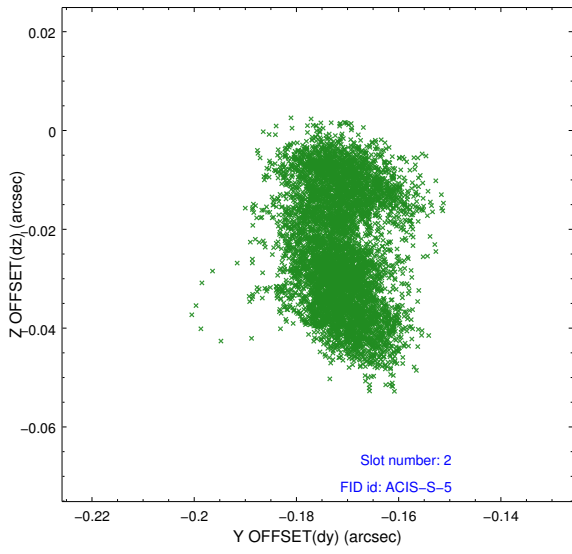
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2014.12.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	25.060784401715

A.2 Comments

Window preference met.

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.