

V&V Reference Report

L2 ASCDS Version : 10.2.2

Observation 14204 - L2 Version 2
Chandra X-Ray Center

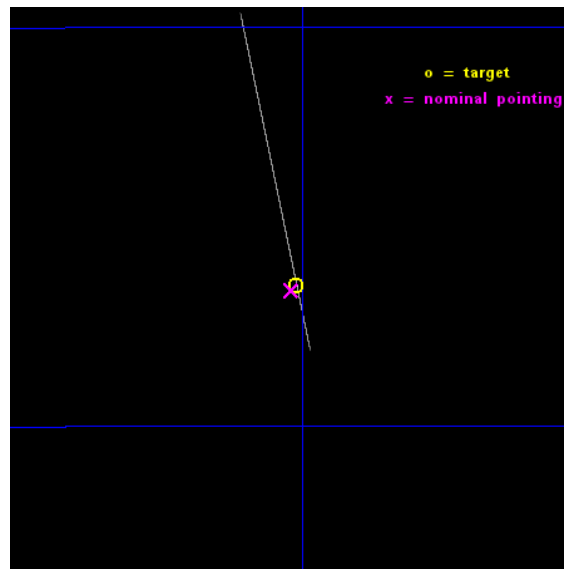
L2 Processing Date : Dec 11 2014

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1 Front

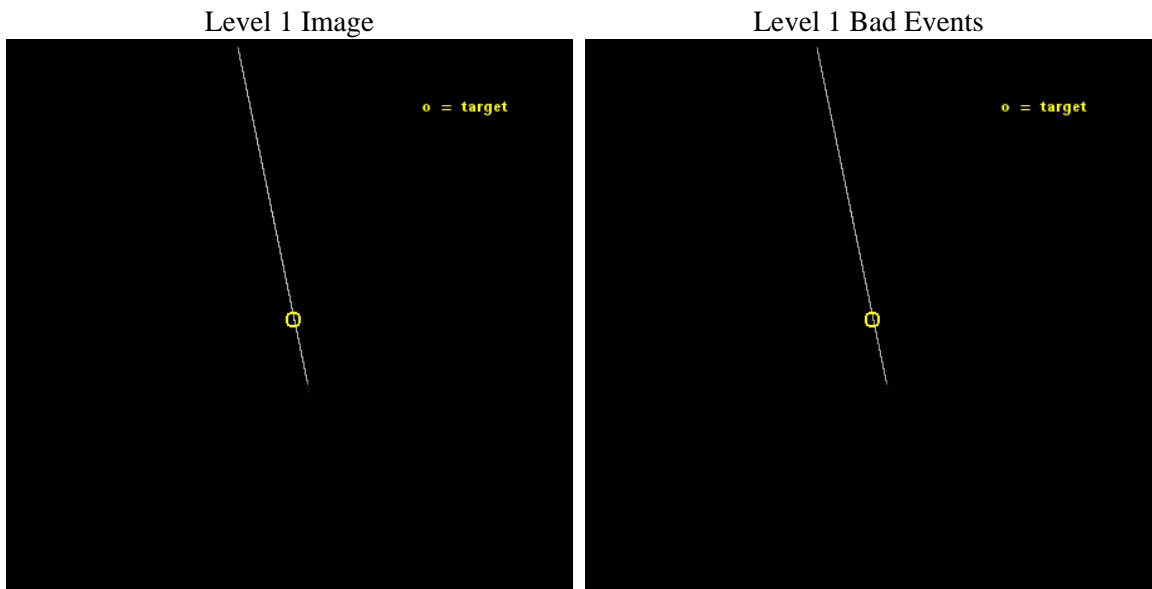
seq_num	501781	Sequence number
obs_id	14204	Observation id
title	Measuring the Spin-Down and Dipole Magnetic Field of the CCO Pulsar 1E 1207.4-5209	Proposal title
observer	Prof. Jules Halpern	Principal investigator
object	1E1207.4-5209	Source name
ra_targ	182.50375	Observer's specified target RA [deg]
dec_targ	-52.441222	Observer's specified target Dec [deg]
ra_nom	182.50727391347	Nominal RA [deg]
dec_nom	-52.443344346752	Nominal Dec [deg]
roll_nom	257.78444542863	Nominal Roll [deg]
revision	2	Processing version of data
ontime	33176.25	Sum of GTIs [s]
livetime	33046.655273438	Livetime [s]
ontime7	33176.25	Sum of GTIs [s]
l2events	102086	Number of level 2 events



2 OBI

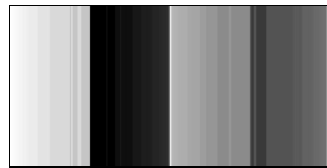
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	33000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	33176.25	Sum of GTIs [s]
caldbver	4.6.4	 	ontime7	33176.25	Sum of GTIs [s]
date	2014-12-12T02:40:23	Date and time of file creation	l1events	312583	Number of level 1 events
revision	2	Processing version of data			

2.1.4 Events

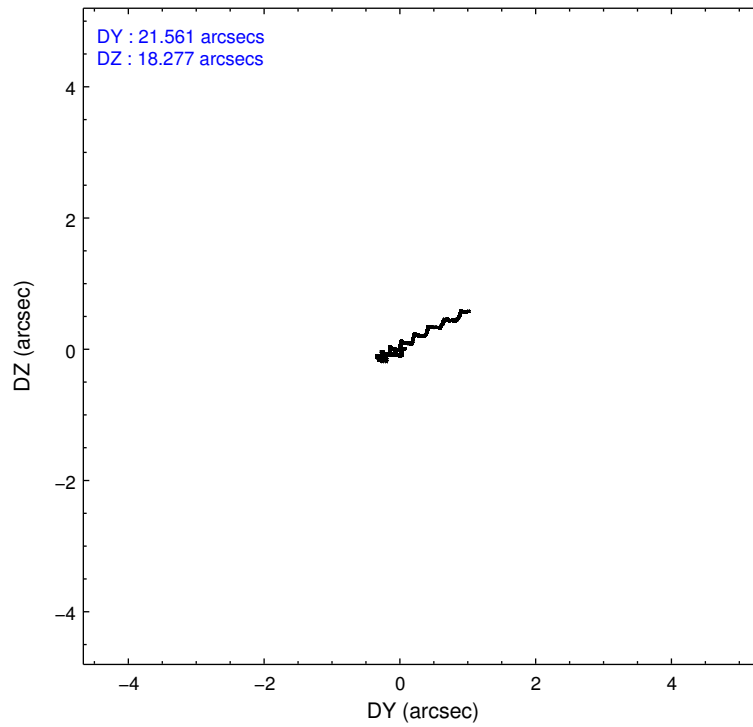
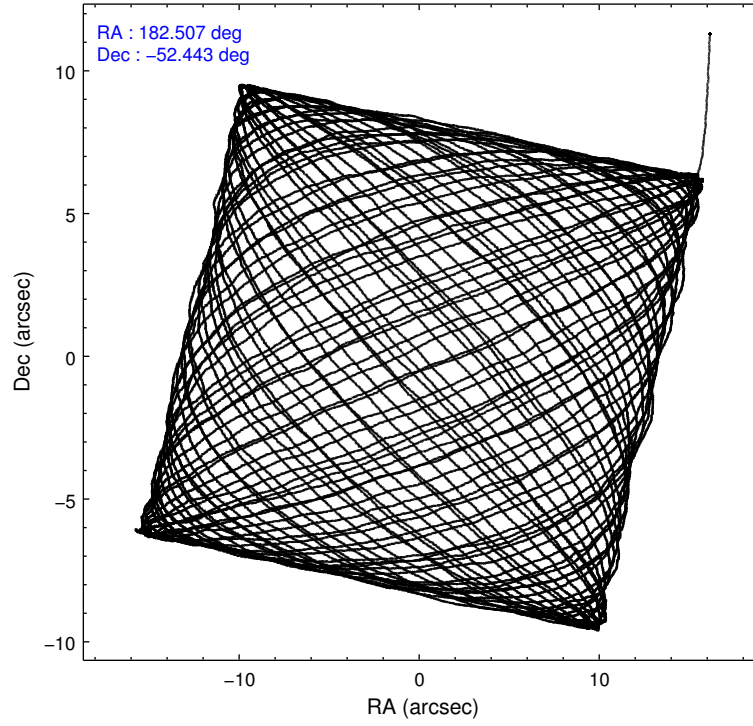
	ccd 7
level 1 events	312583
rejected events	206456
rejected %	66%

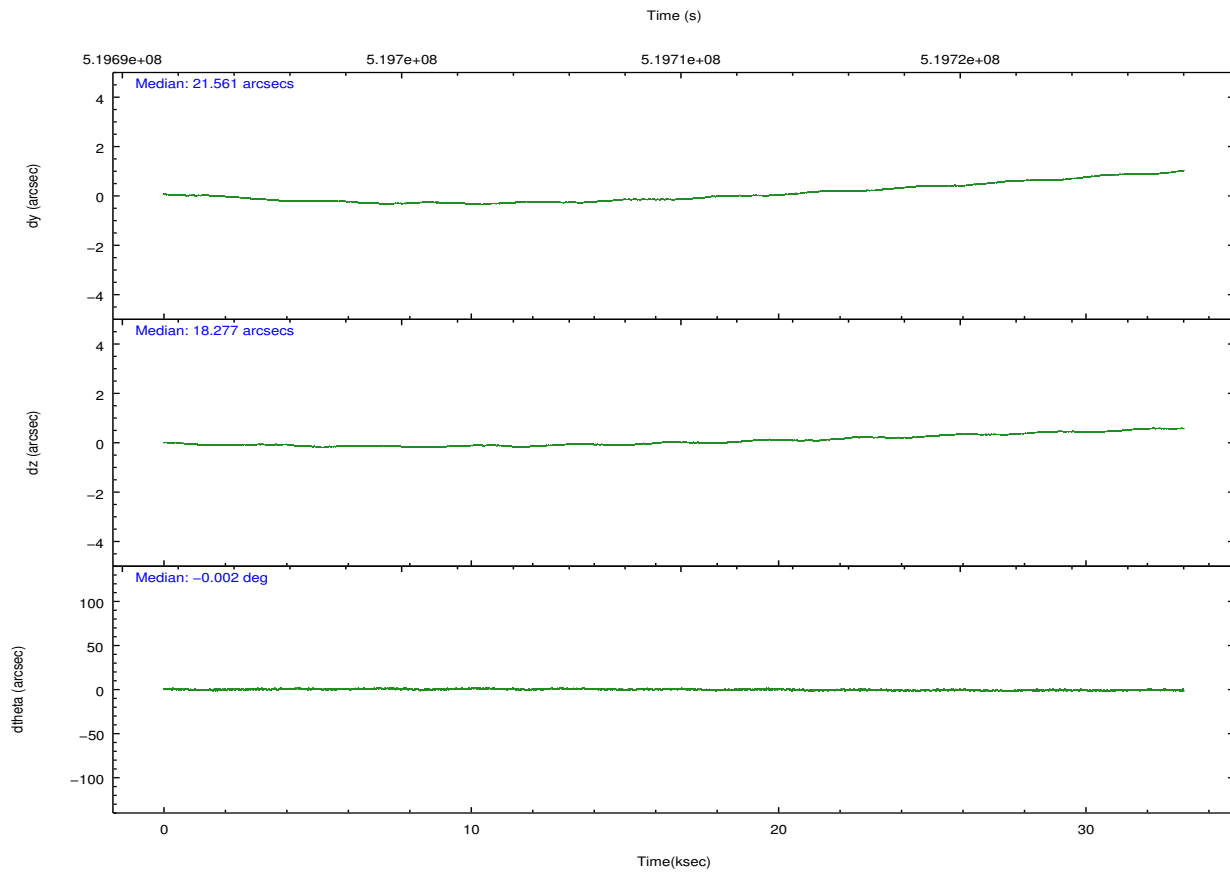
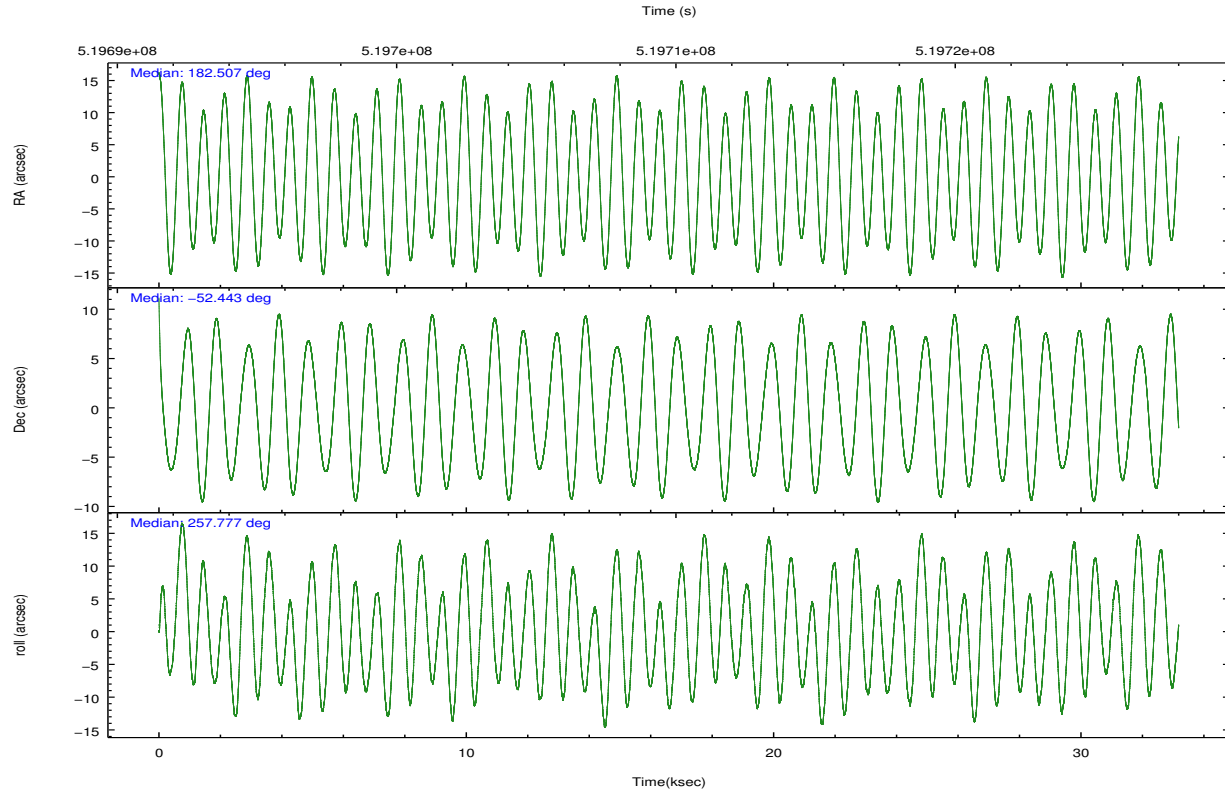
	ccd 7
grade 0 events	10697
	3%
grade 1 events	264
	0%
grade 2 events	28456
	9%
grade 3 events	6286
	2%
grade 4 events	6326
	2%
grade 5 events	20505
	6%
grade 6 events	54567
	17%
grade 7 events	185482
	59%

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	CC33_FAINT	CC33_FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	182.493007	182.5072739134714	Subarray requested	NONE	NONE
[deg] Pointing Dec	-52.417431	-52.44334434675174	Alternating exposures requested	N	N
[deg] Pointing Roll	257.616511	257.784445428627	[s] Primary exposure time	0.000000	0
[s] Window start time (MET)	515289667.184000	515289667.184000			
[s] Window stop time (MET)	520473667.184000	520473667.184000			
[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)	519693332.184000	519692466.20825			
Observation start date	2014-06-20T23:14:25	2014-06-20T23:01:06			
[s] Observation end time (MET)	519726332.184000	519727213.19767			
Observation end date	2014-06-21T08:24:25	2014-06-21T08:40:13			
Read mode	CONTINUOUS	CONTINUOUS			

2.3 Aspect





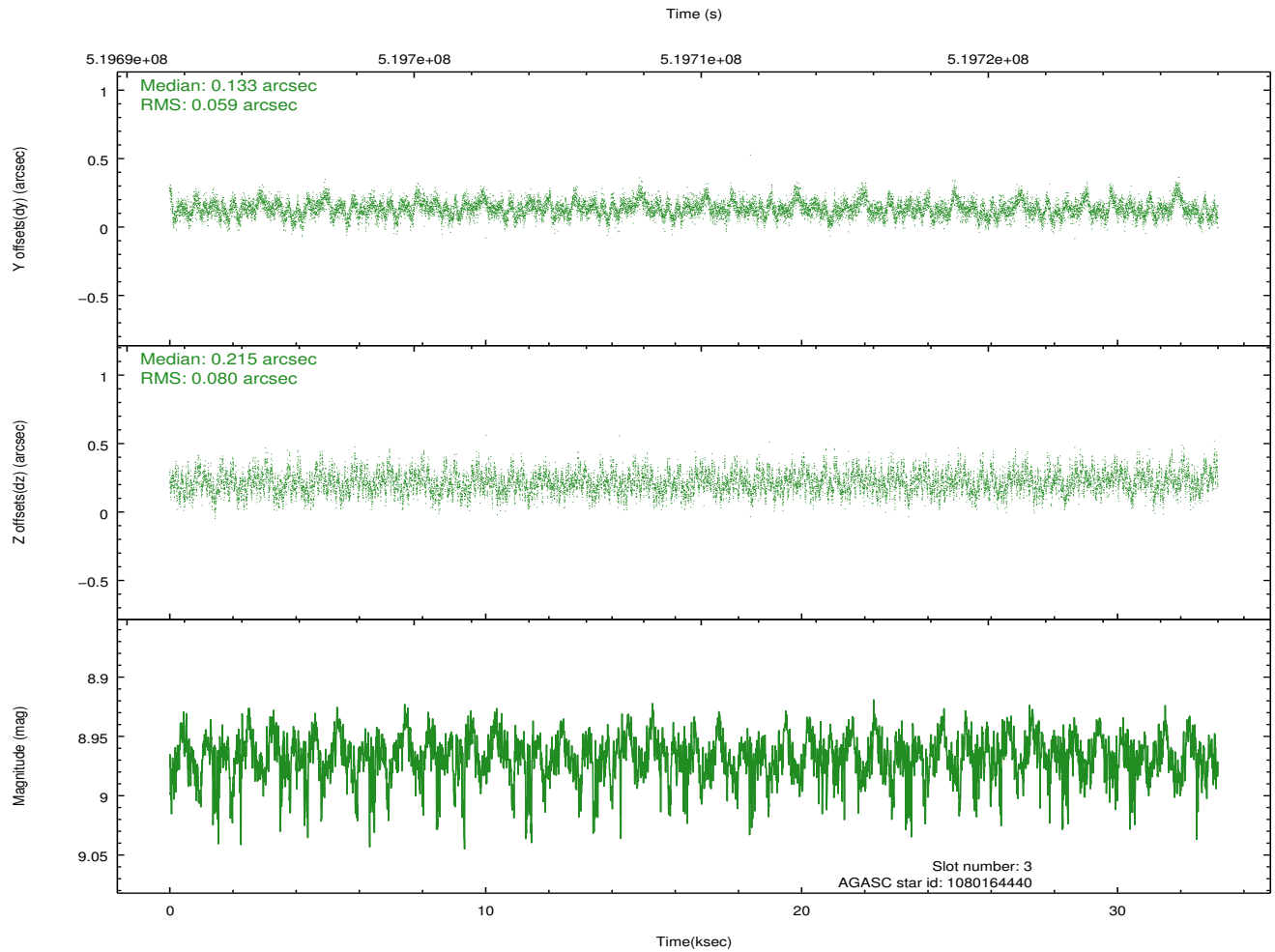
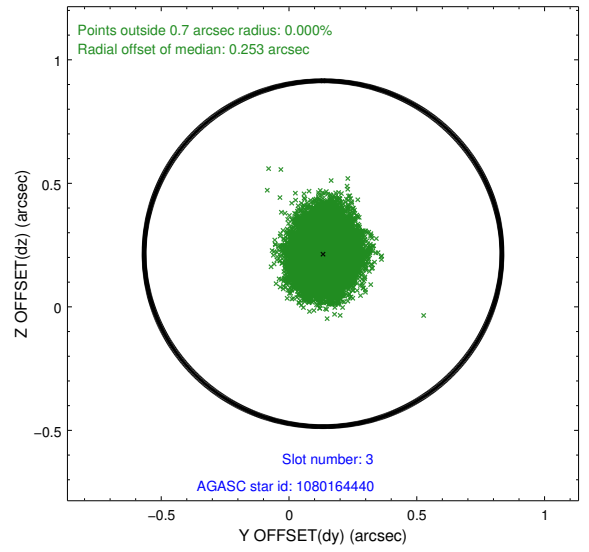
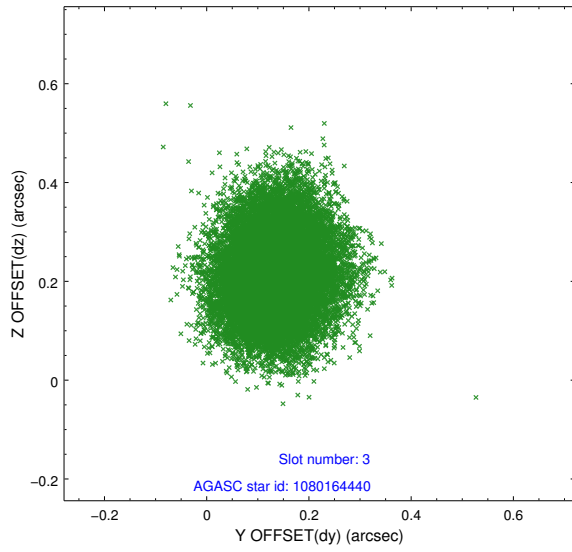
Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	7.05	8092	0.073	0.029	0.008	0.015	0.000000	0.000000	921.20	-1735.48
1	FID		ACIS-S-2	6.97	8093	-0.230	-0.106	0.008	0.019	0.000000	0.000000	-774.98	-1740.13
2	FID		ACIS-S-4	7.05	8093	0.131	0.083	0.007	0.015	0.000000	0.000000	2138.58	168.62
3	GUIDE	used	1080164440	8.97	16177	0.133	0.215	0.107	0.169	181.986340	-52.264623	-293.31	-1207.17
4	GUIDE	used	1080189880	9.59	16175	0.059	-0.074	0.170	0.274	182.794721	-51.898848	-1965.34	254.30
5	GUIDE	used	1131423616	8.84	16179	-0.059	-0.022	0.108	0.163	182.073492	-52.590429	808.08	-761.78
6	GUIDE	used	1131424824	9.23	16178	-0.063	0.041	0.115	0.187	181.758646	-52.547110	809.42	-1468.13
7	GUIDE	used	1131414168	8.95	16179	-0.072	-0.157	0.110	0.175	183.224863	-52.915912	1420.21	1938.39

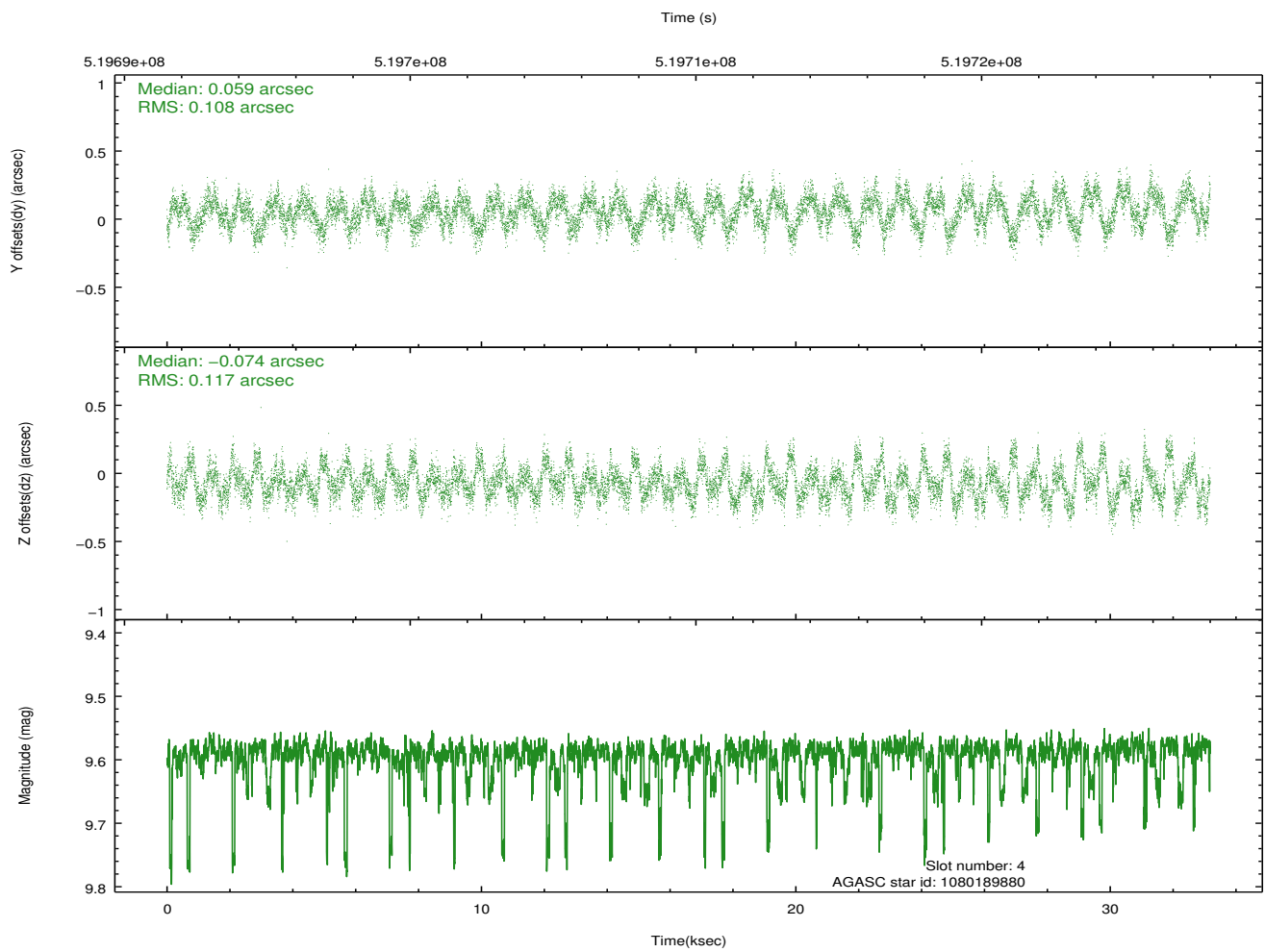
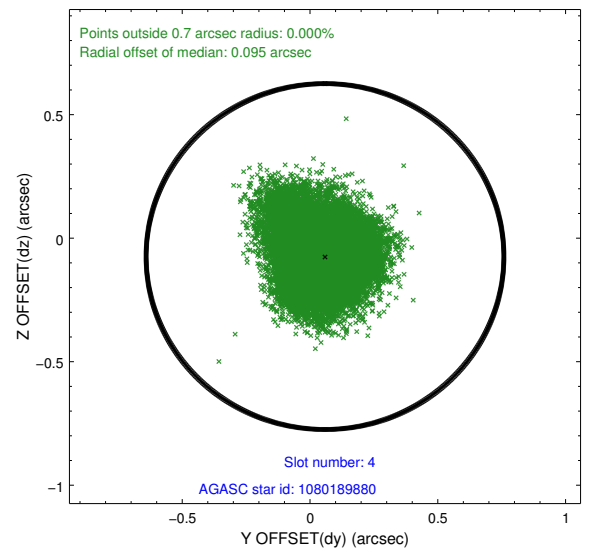
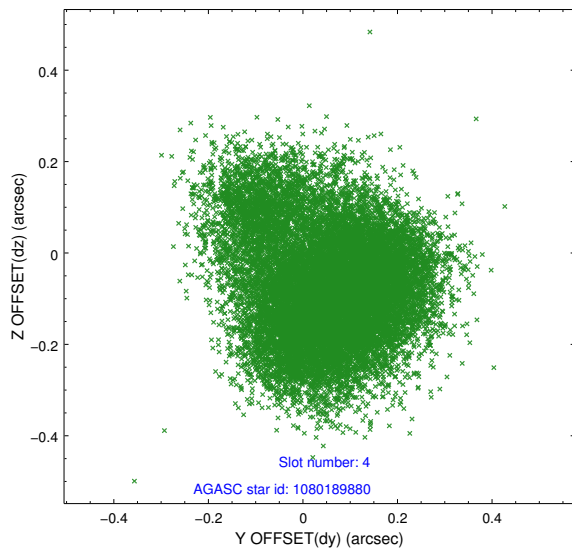
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2.4 Star Slots

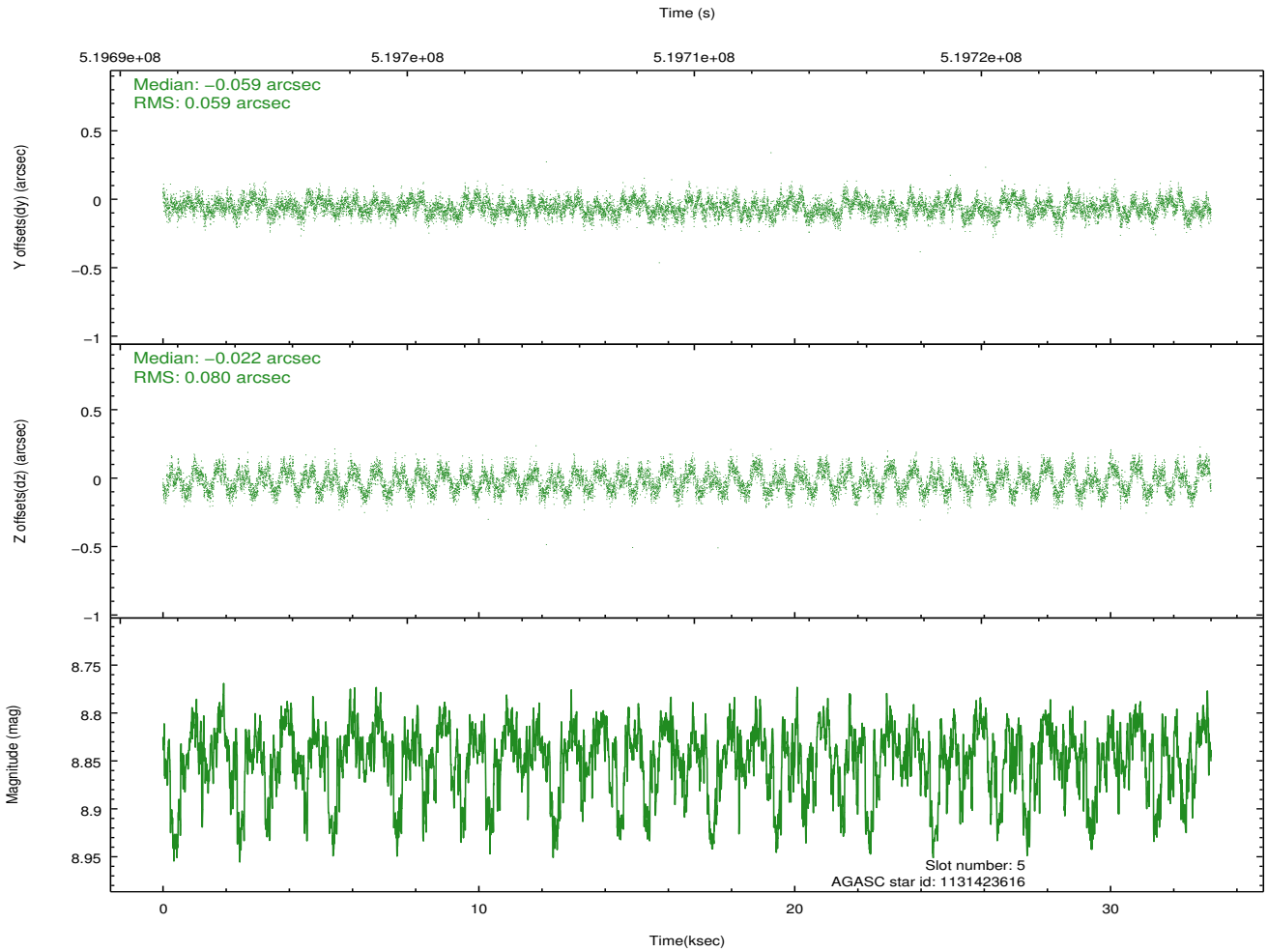
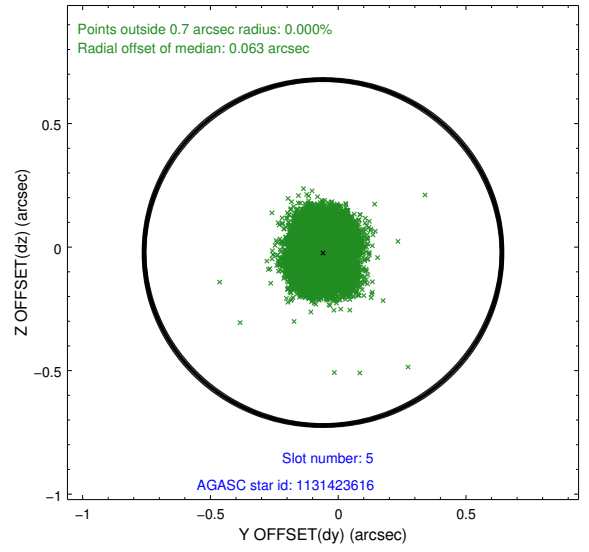
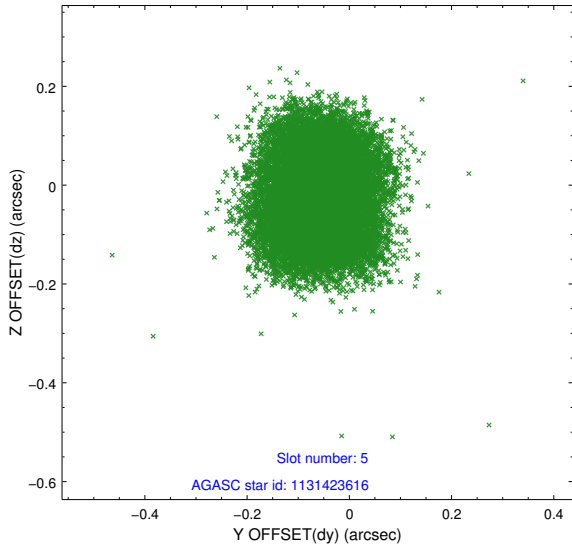
2.4.1 Slot 3



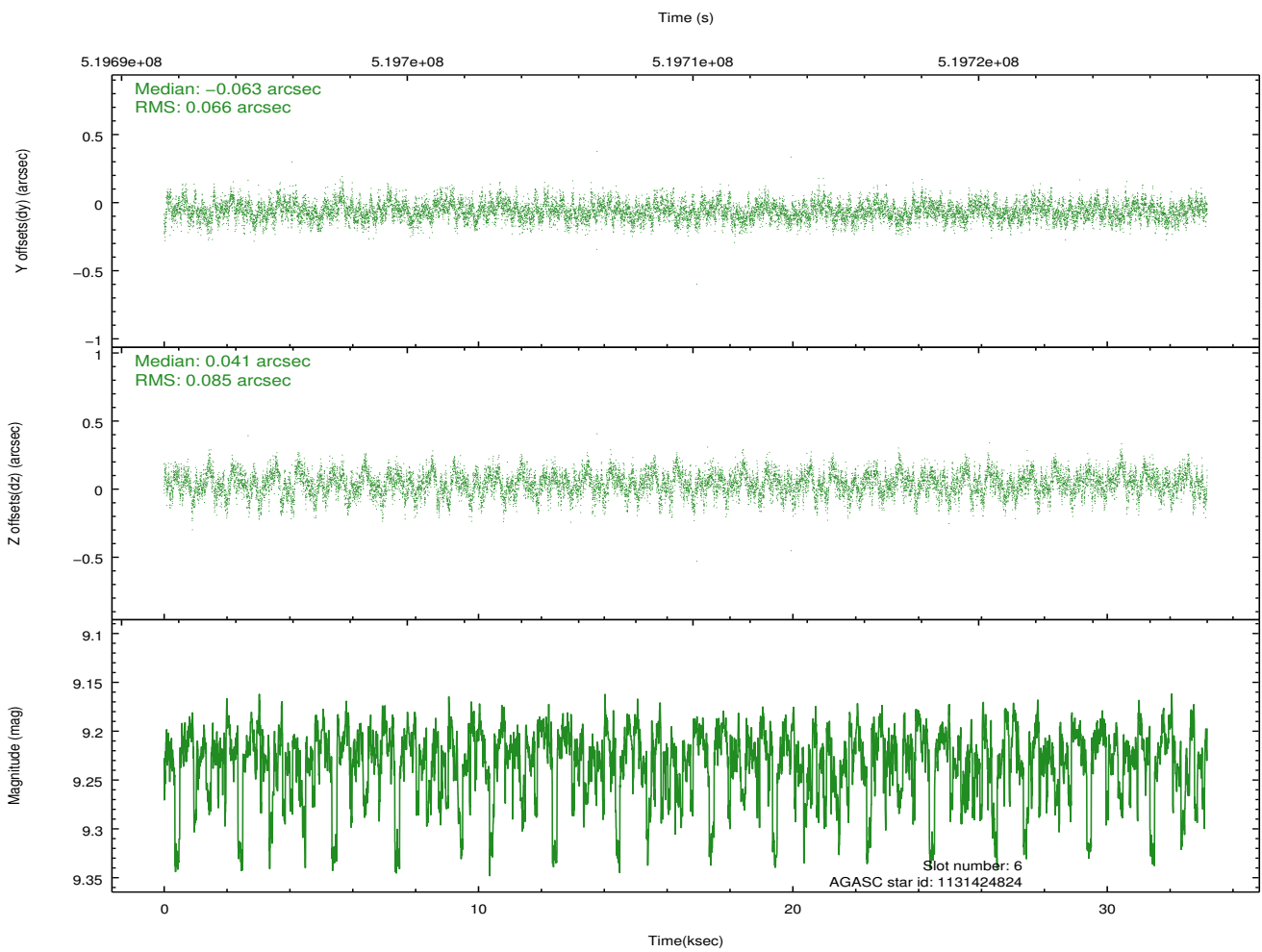
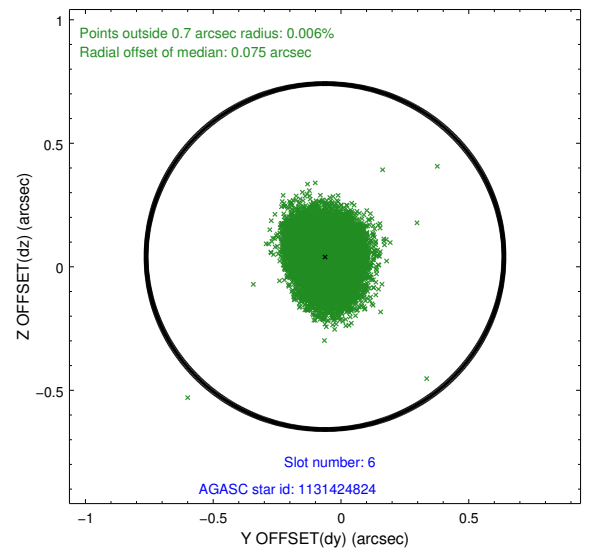
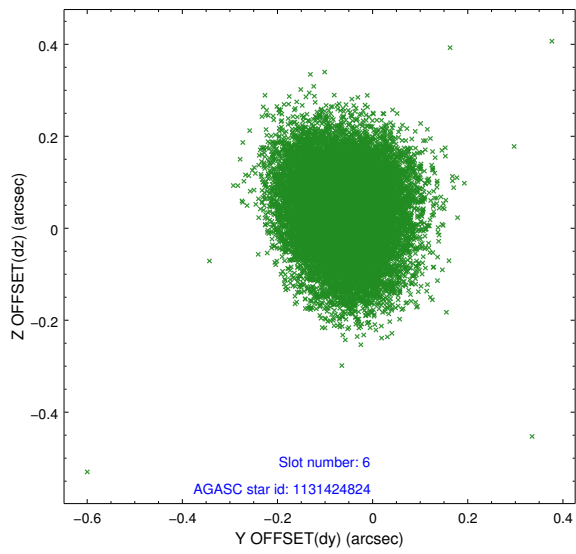
2.4.2 Slot 4



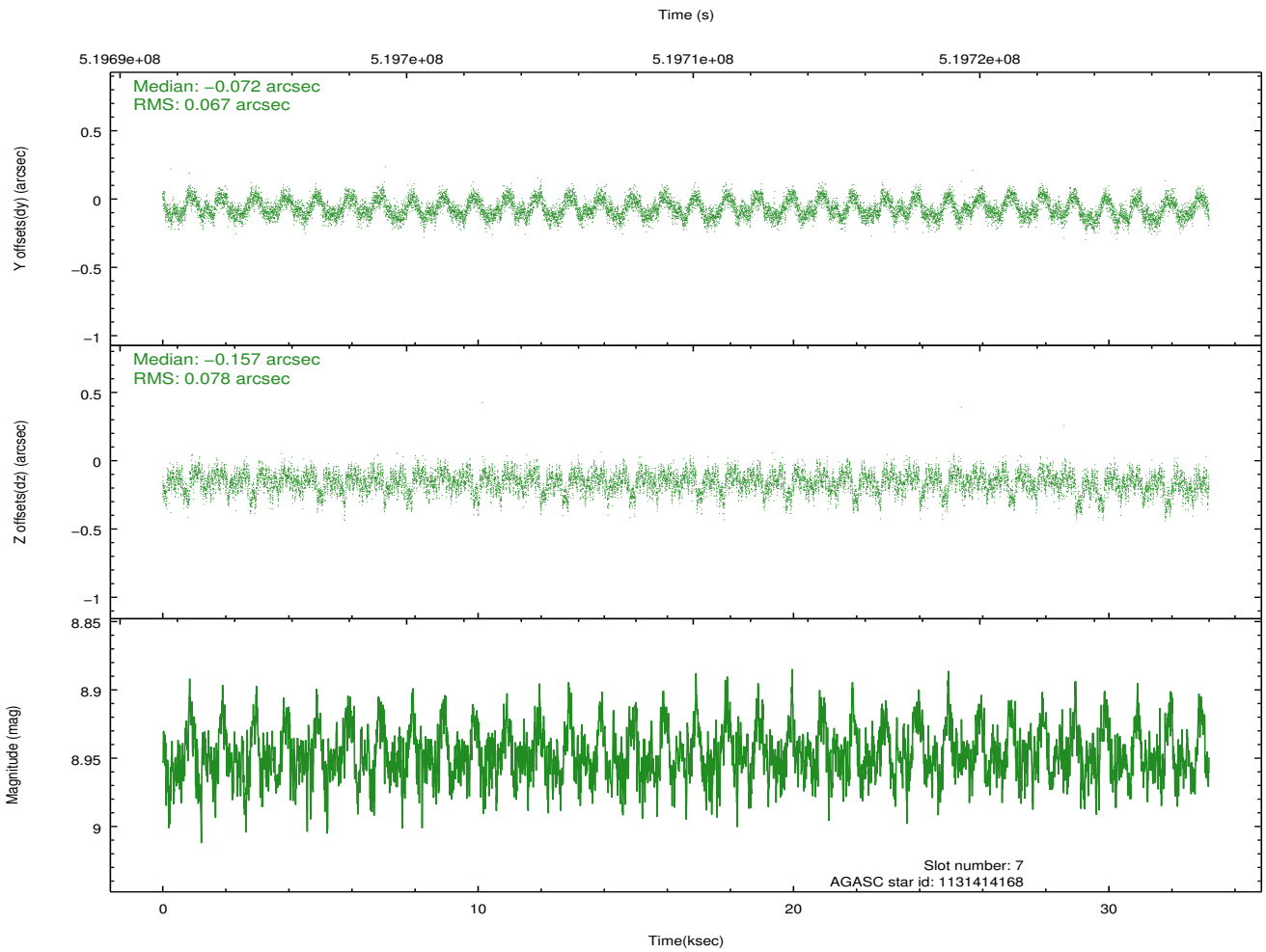
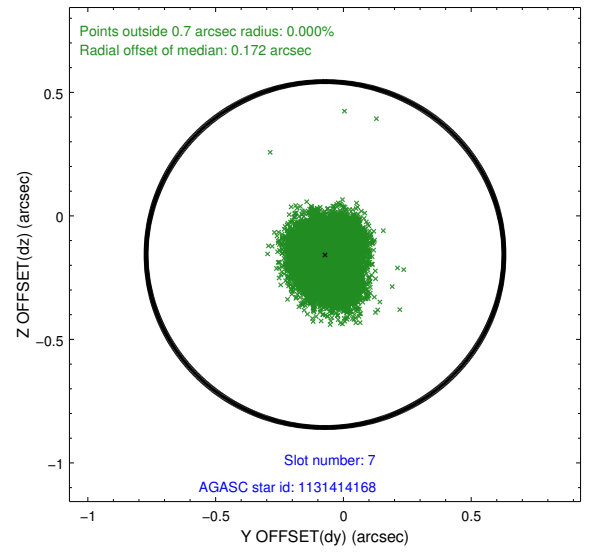
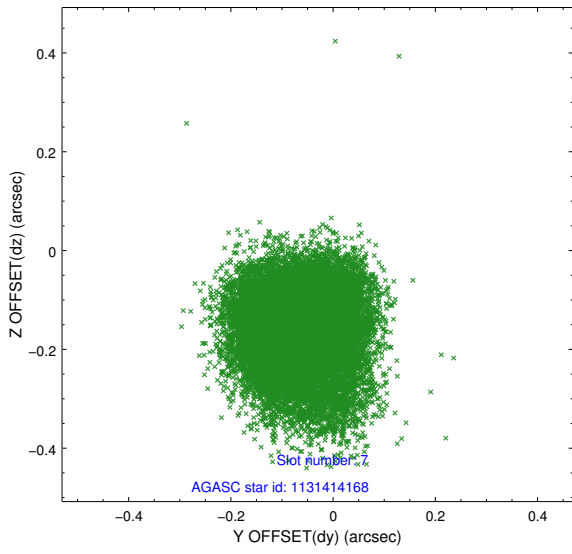
2.4.3 Slot 5



2.4.4 Slot 6

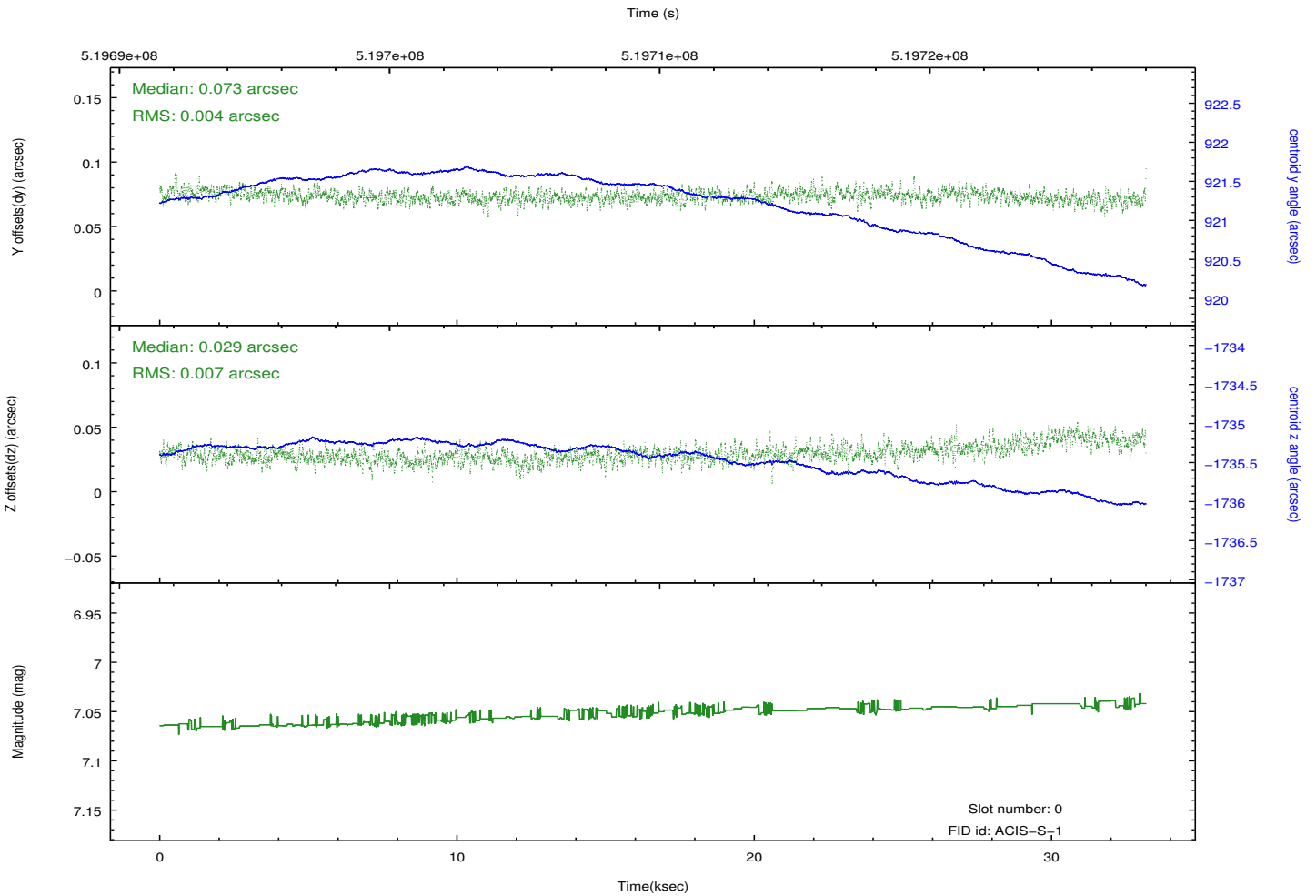
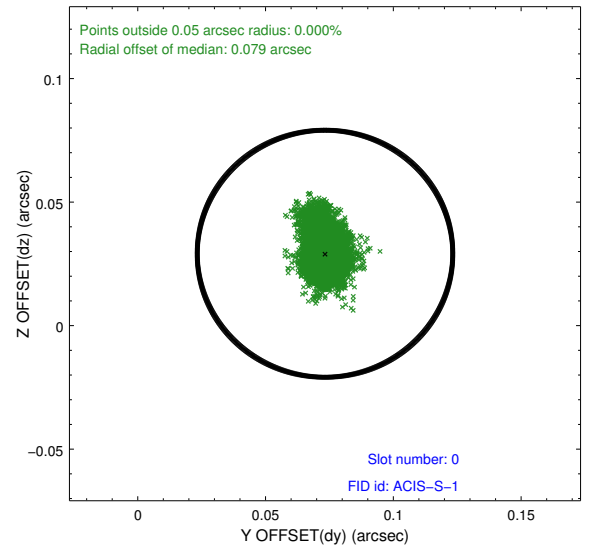
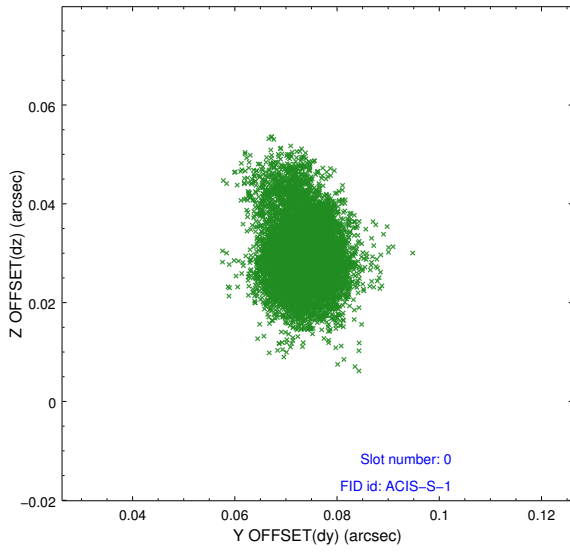


2.4.5 Slot 7

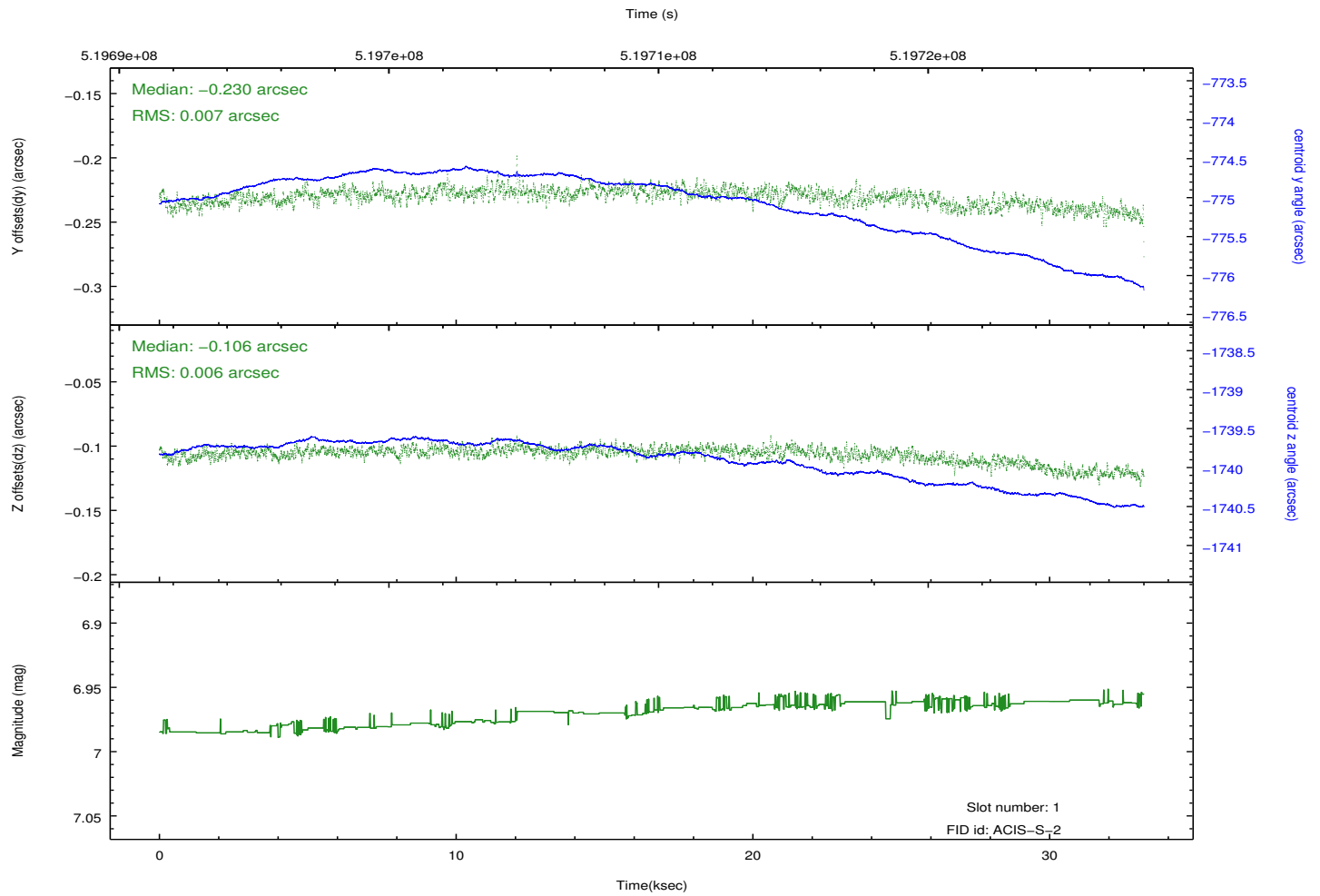
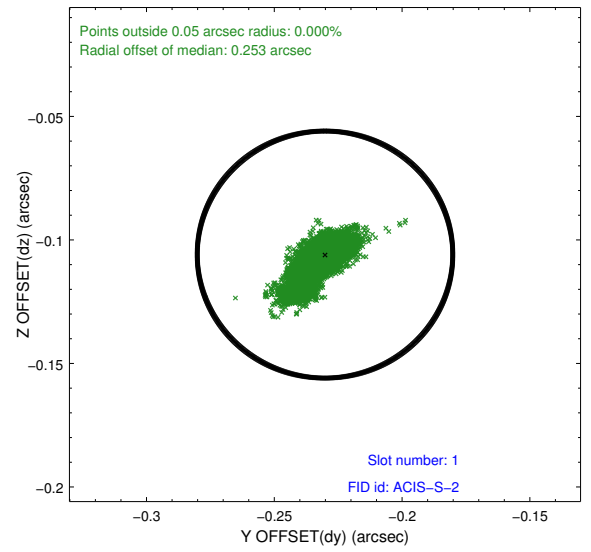
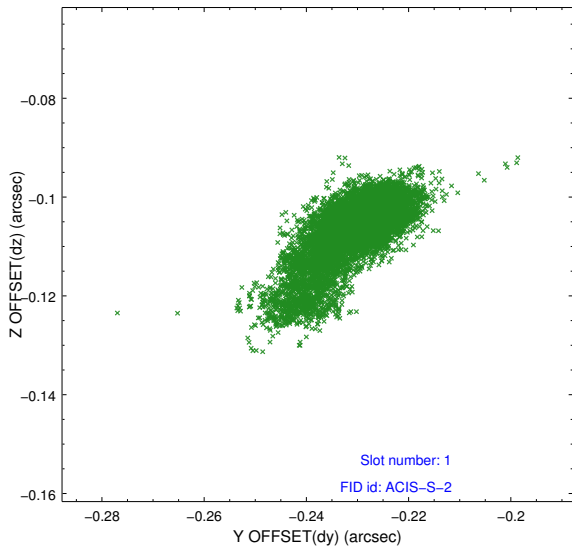


2.5 FID Slots

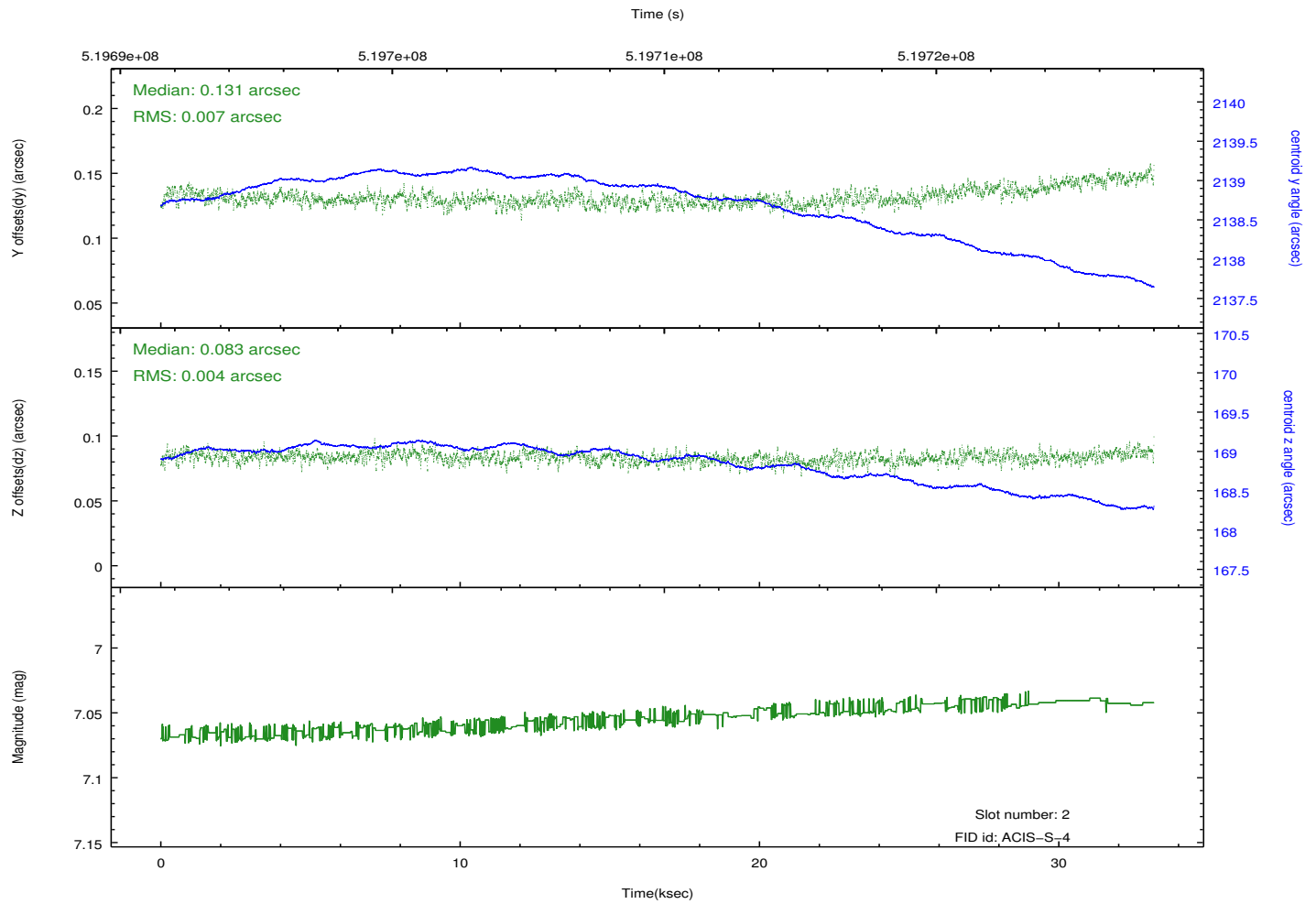
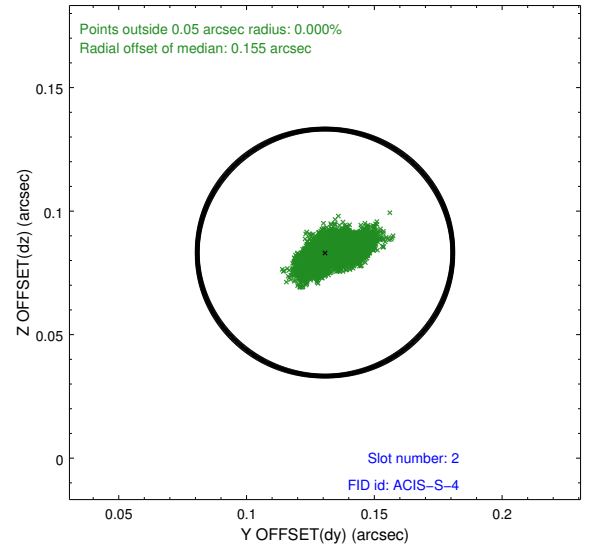
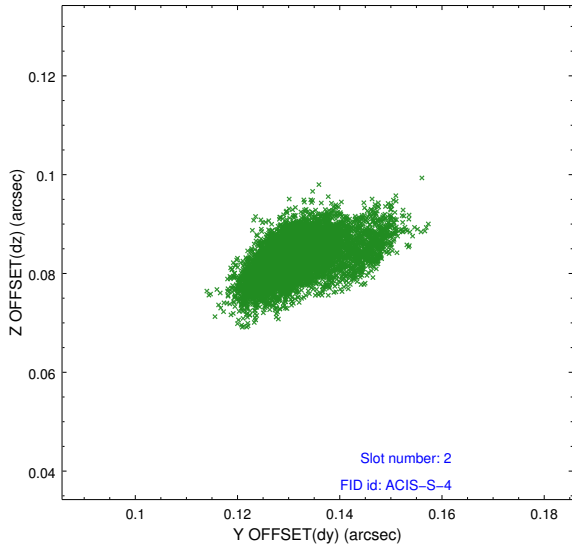
2.5.1 Slot 0



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)	2015.05.01
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	33.17625

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.