

V&V Reference Report

L2 ASCDS Version : 10.1.1

Observation 14510 - L2 Version 2
Chandra X-Ray Center

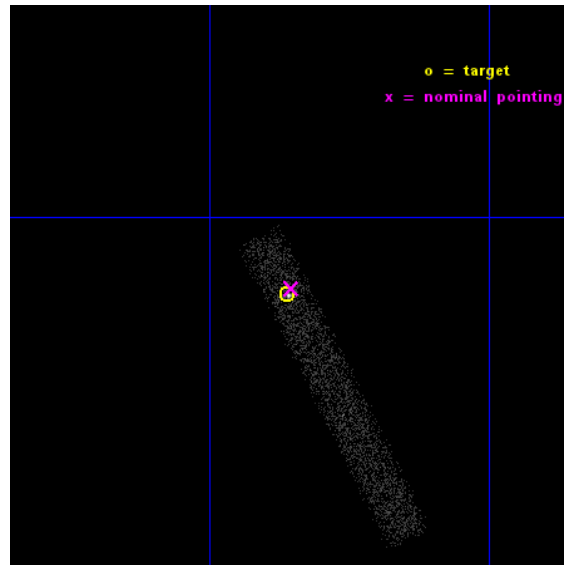
L2 Processing Date : Dec 9 2014

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1 Front

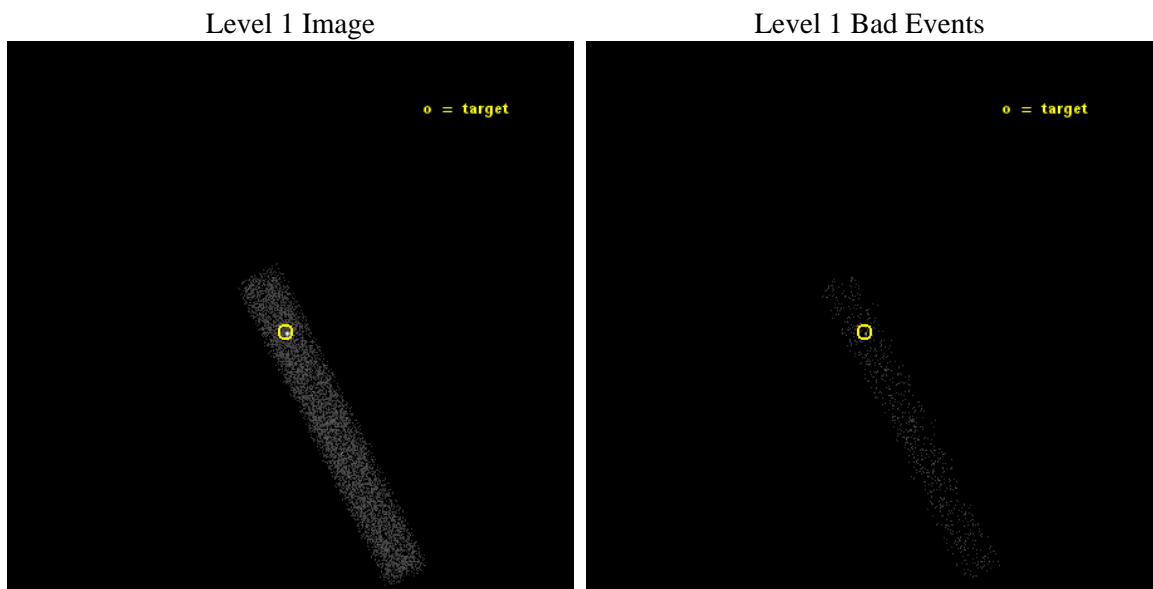
seq_num	702747	Sequence number
obs_id	14510	Observation id
title	ENERGY DEPENDENT X-RAY MICROLENSING AND THE STRUCTURE OF QUASARS	P
observer	Prof. Christopher Kochanek	Principal investigator
object	RXJ1131-1231	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	172.965	Observer's specified target RA [deg]
dec_targ	-12.5325	Observer's specified target Dec [deg]
ra_nom	172.96338910437	Nominal RA [deg]
dec_nom	-12.529890652305	Nominal Dec [deg]
roll_nom	62.513650059995	Nominal Roll [deg]
revision	2	Processing version of data
ontime	9651.999424696	Sum of GTIs [s]
livetime	8753.8540038962	Livetime [s]
ontime7	9651.999424696	Sum of GTIs [s]
l2events	7299	Number of level 2 events



2 OBI

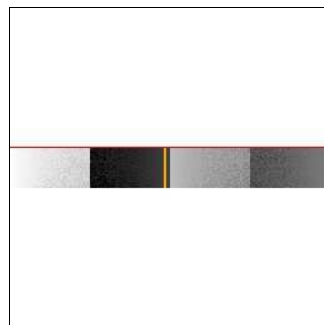
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	9582.157000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	9651.999424696	Sum of GTIs [s]
caldsver	4.6.4	 	ontime7	9651.999424696	Sum of GTIs [s]
date	2014-12-09T08:34:34	Date and time of file creation	l1events	11856	Number of level 1 events
revision	2	Processing version of data			

2.1.4 Events

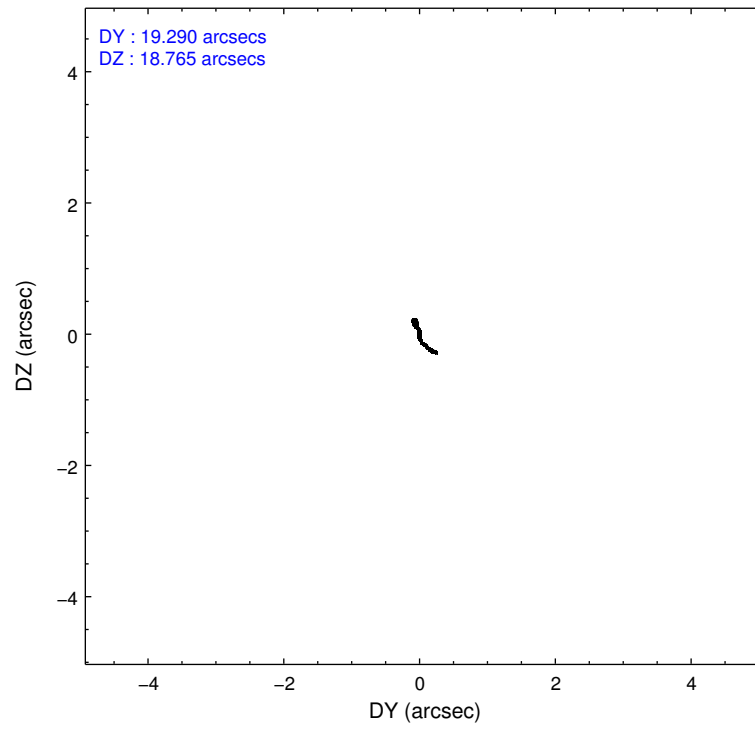
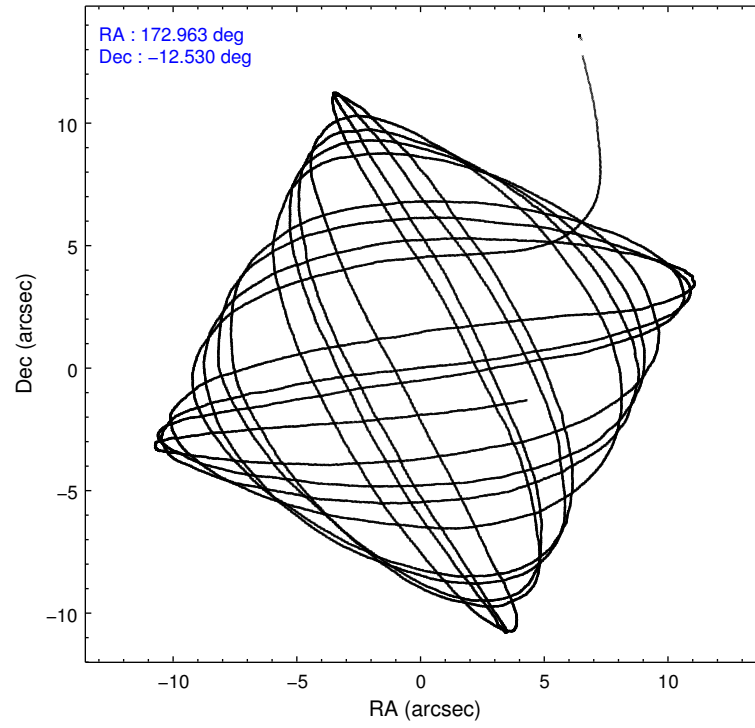
	ccd 7
level 1 events	11856
rejected events	4387
rejected %	37%

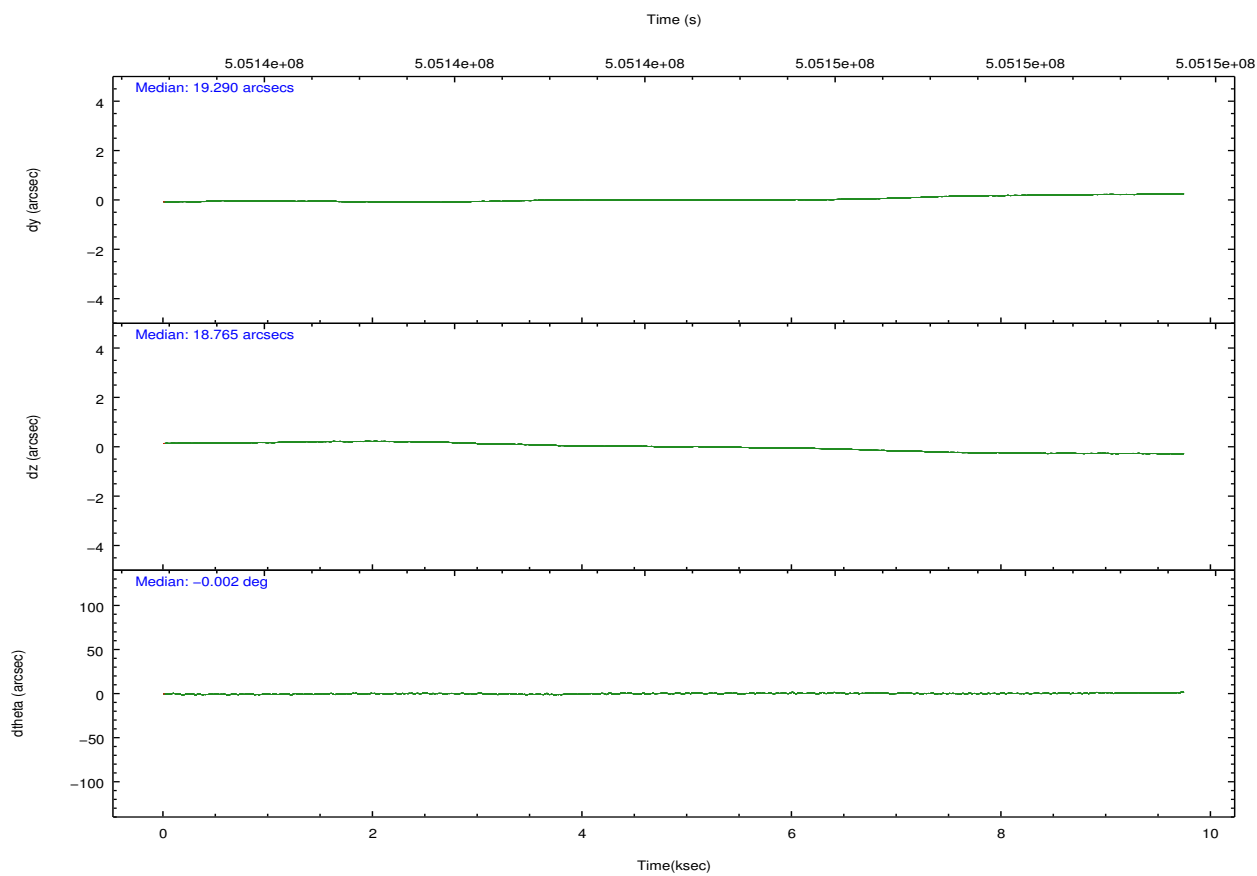
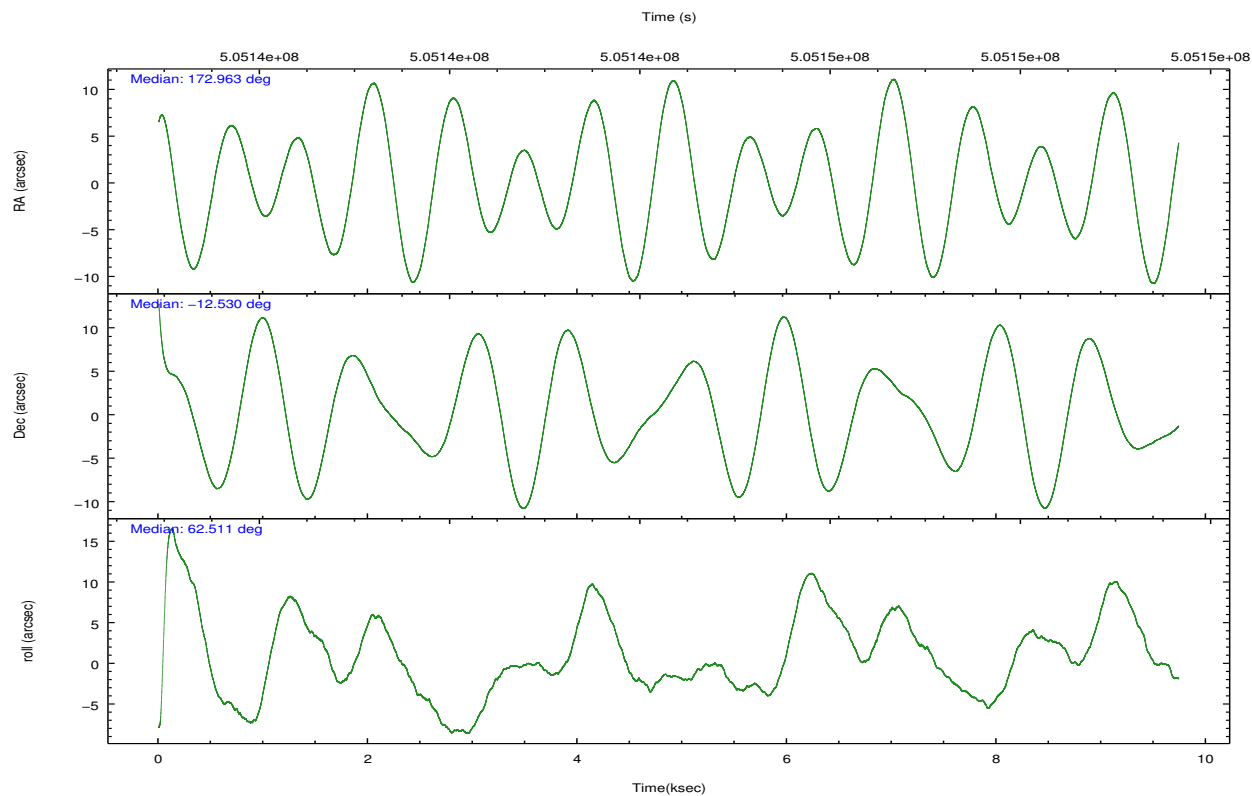
	ccd 7
grade 0 events	1395
	11%
grade 1 events	20
	0%
grade 2 events	1744
	14%
grade 3 events	914
	7%
grade 4 events	899
	7%
grade 5 events	928
	7%
grade 6 events	2518
	21%
grade 7 events	3438
	28%

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	172.965058	172.9633891043717	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	-12.557172	-12.52989065230499	Subarray start row	449	449
[deg] Pointing Roll	62.357413	62.51365005999475	Subarray row count	128	128
[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	0.4
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	505139586.184000	505138561.64342			
Observation start date	2014-01-03T12:31:59	2014-01-03T12:16:01			
[s] Observation end time (MET)	505149168.184000	505149394.35651			
Observation end date	2014-01-03T15:11:41	2014-01-03T15:16:34			
Read mode	TIMED	TIMED			

2.3 Aspect



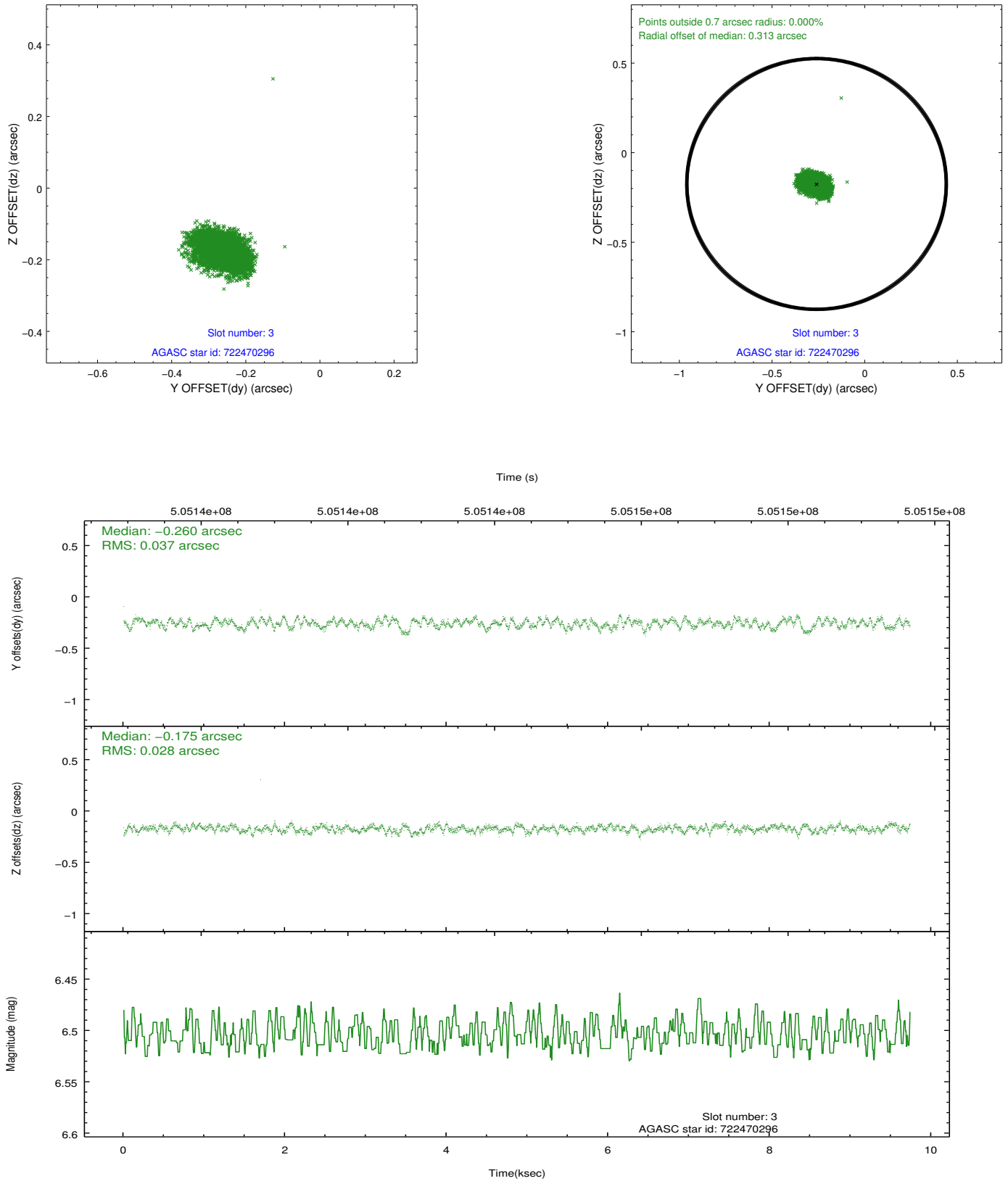


Slot Statistics

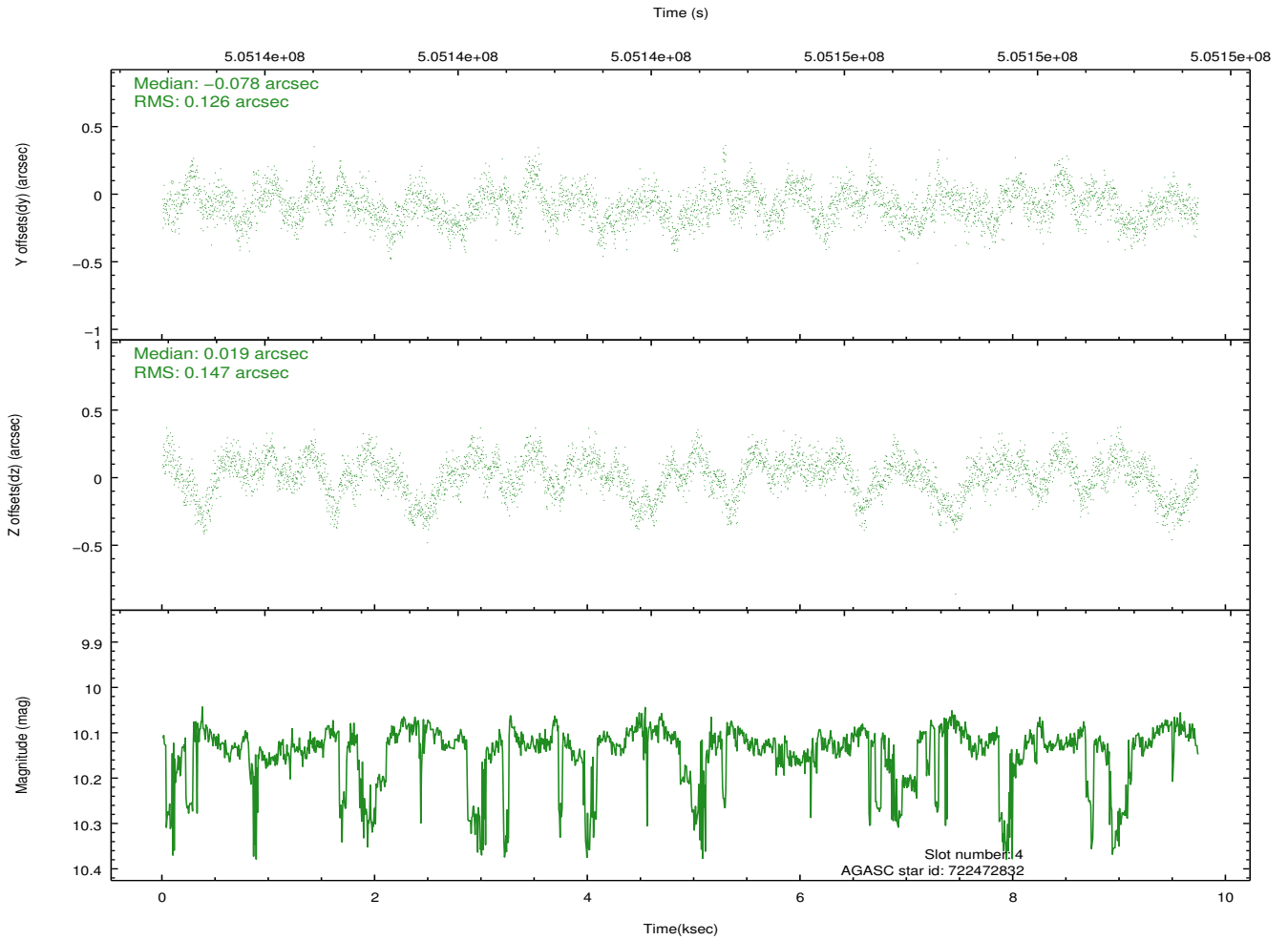
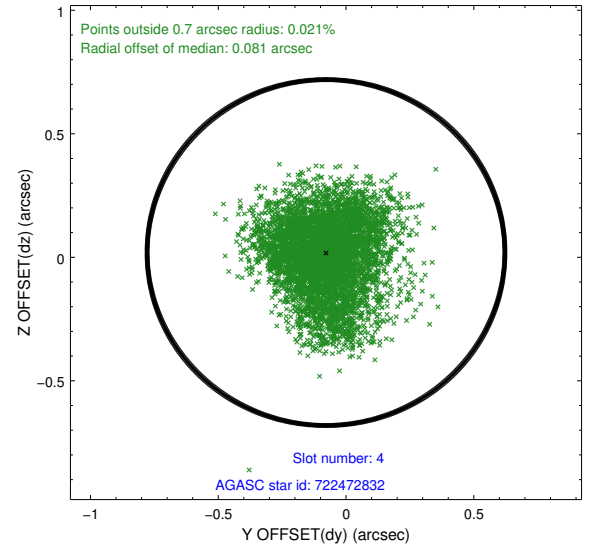
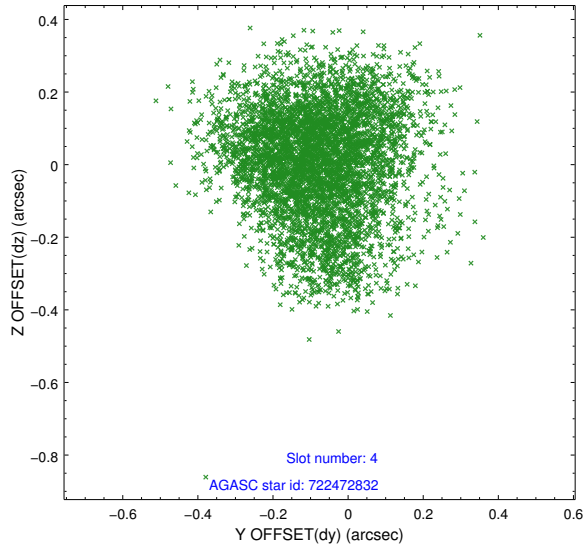
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.02	2375	-0.170	-0.102	0.006	0.011	0.000000	0.000000	-772.64	-1740.30
1	FID		ACIS-S-4	7.11	2375	0.193	0.097	0.007	0.011	0.000000	0.000000	2140.81	167.71
2	FID		ACIS-S-6	7.24	2375	-0.051	0.012	0.007	0.012	0.000000	0.000000	390.25	805.70
3	GUIDE	used	722470296	6.50	4749	-0.260	-0.175	0.049	0.082	172.921689	-12.381367	489.89	428.93
4	GUIDE	used	722472832	10.13	4724	-0.078	0.019	0.208	0.336	173.078970	-12.015349	1914.26	549.83
5	GUIDE	used	722473176	9.43	4749	-0.054	-0.293	0.191	0.315	172.599746	-12.066793	966.68	1958.00
6	GUIDE	used	722871728	9.65	4747	0.078	0.398	0.144	0.241	173.202235	-12.568355	351.22	-756.08
7	GUIDE	used	722873464	7.31	4749	0.310	0.042	0.074	0.119	172.661543	-13.050266	-2066.69	118.13

2.4 Star Slots

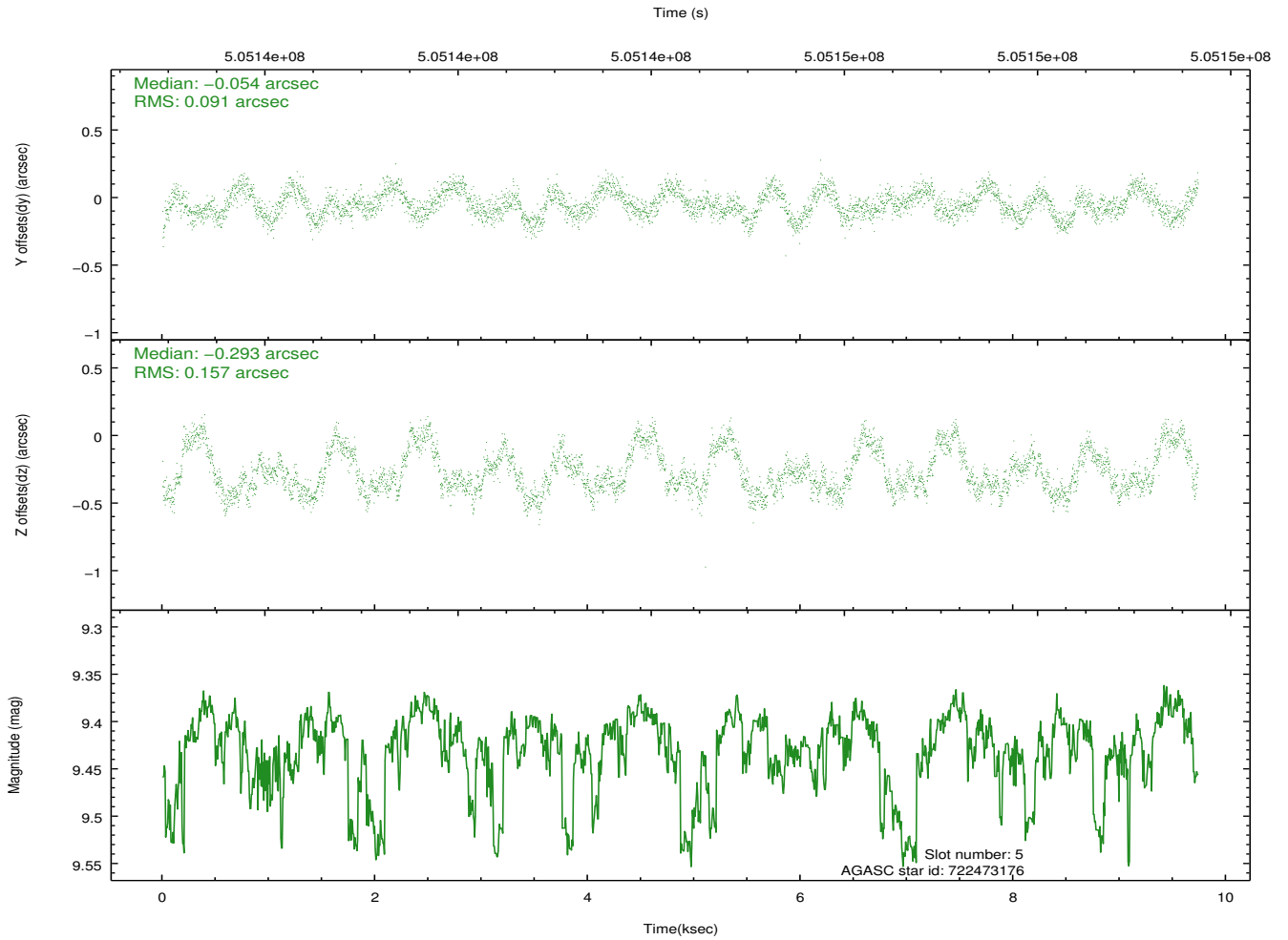
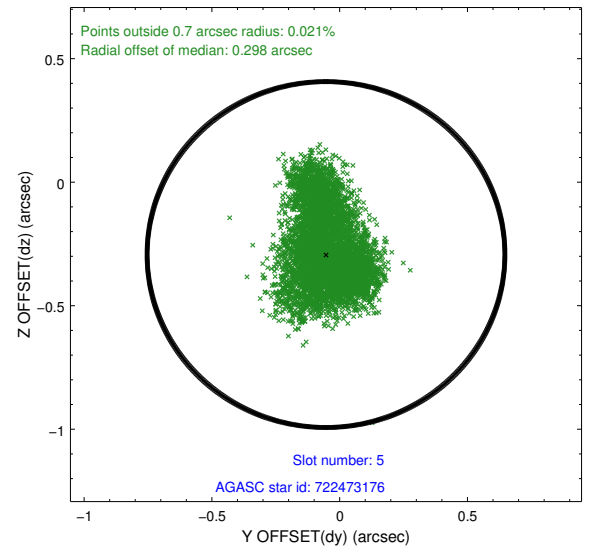
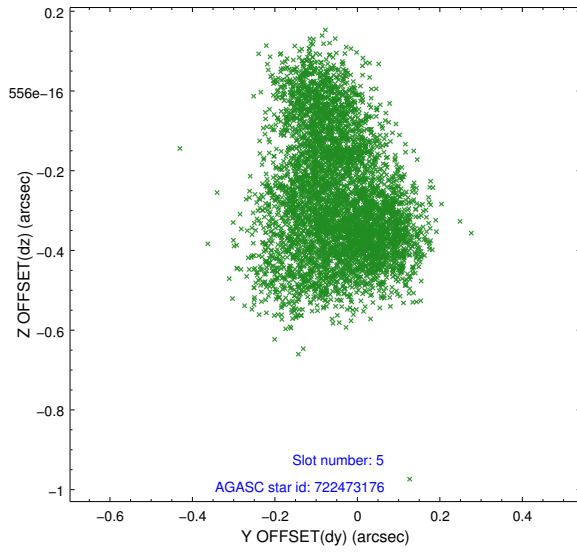
2.4.1 Slot 3



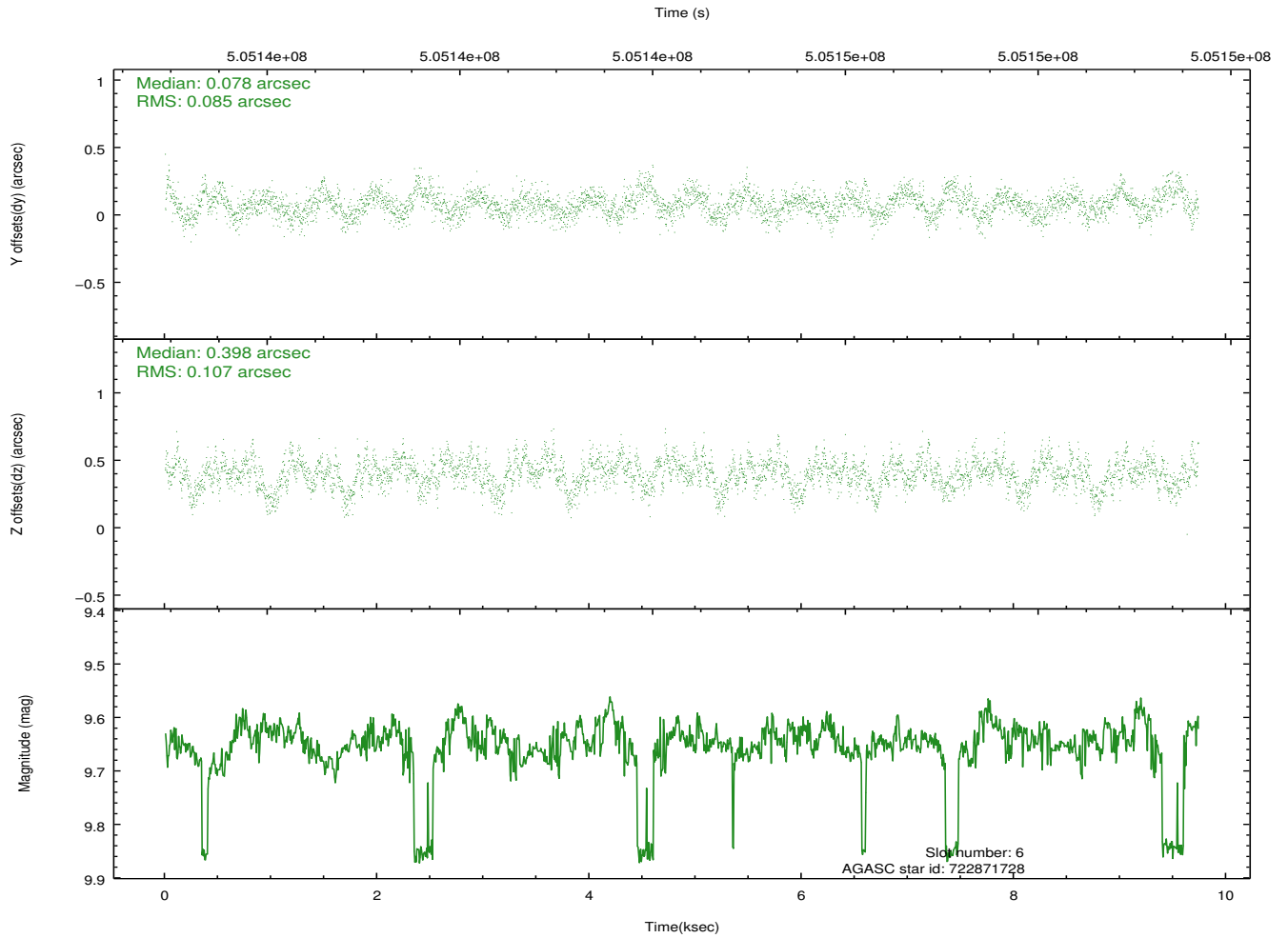
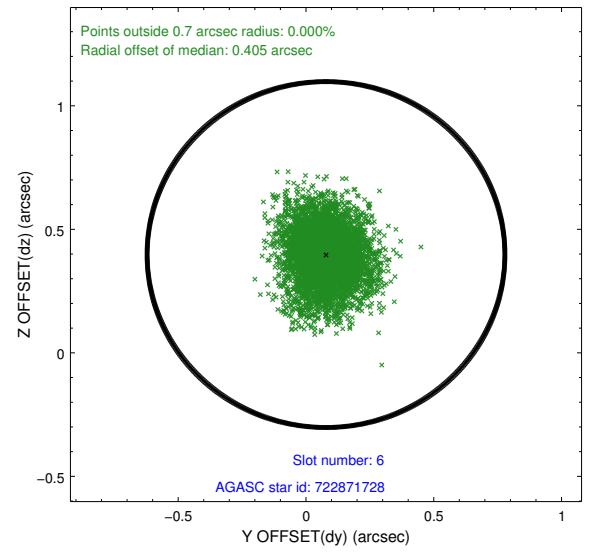
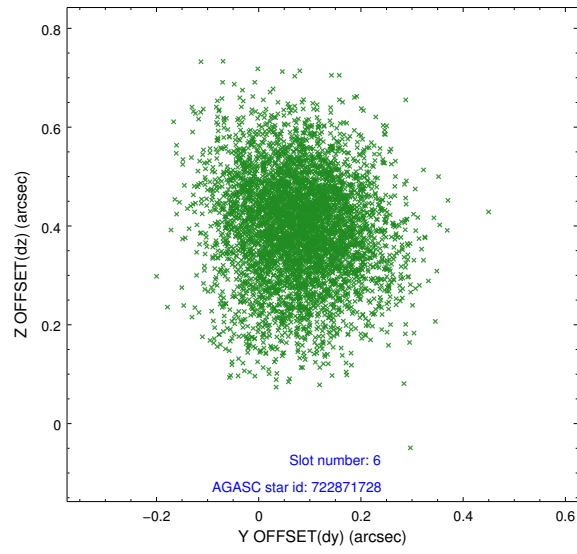
2.4.2 Slot 4



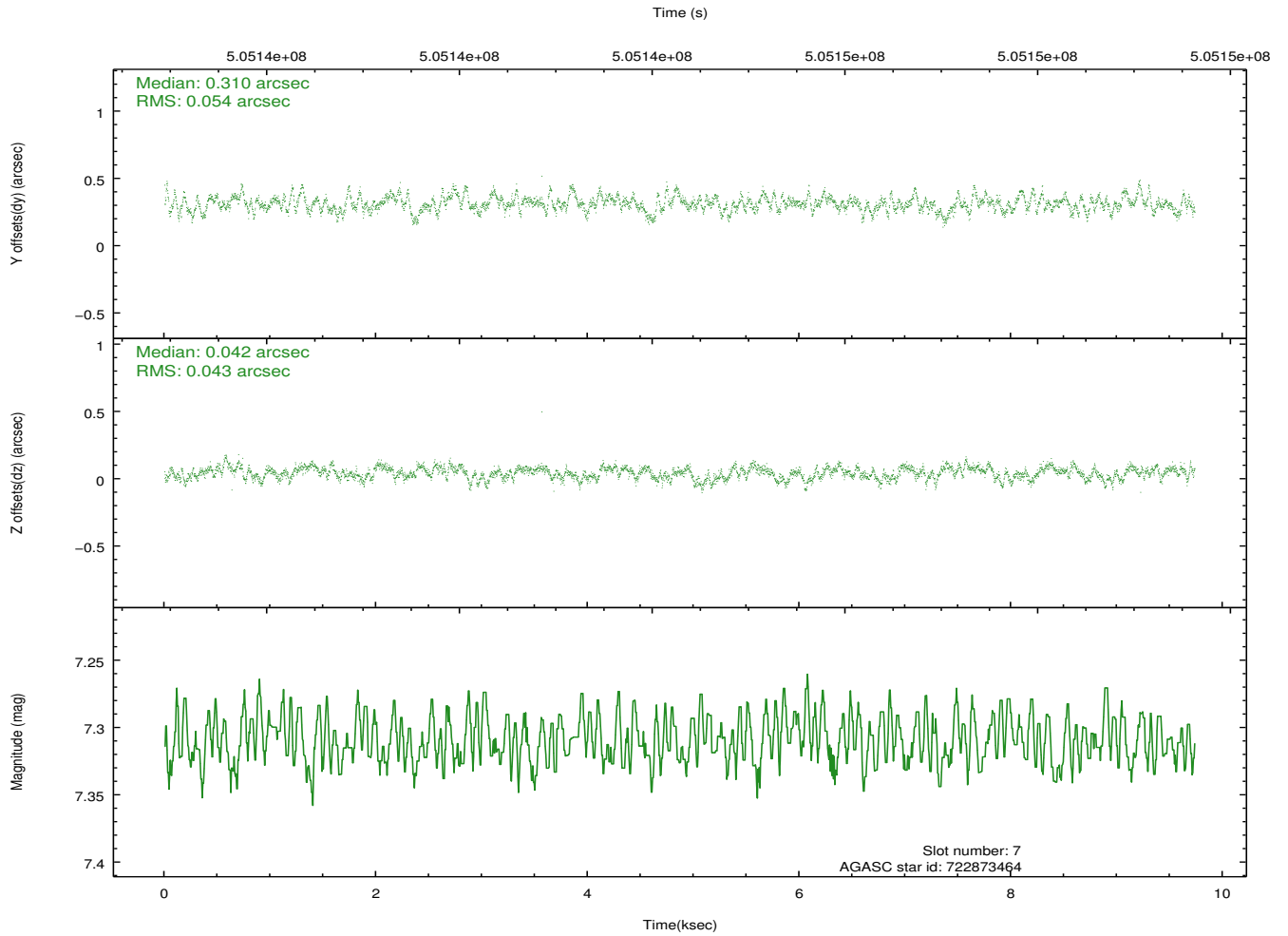
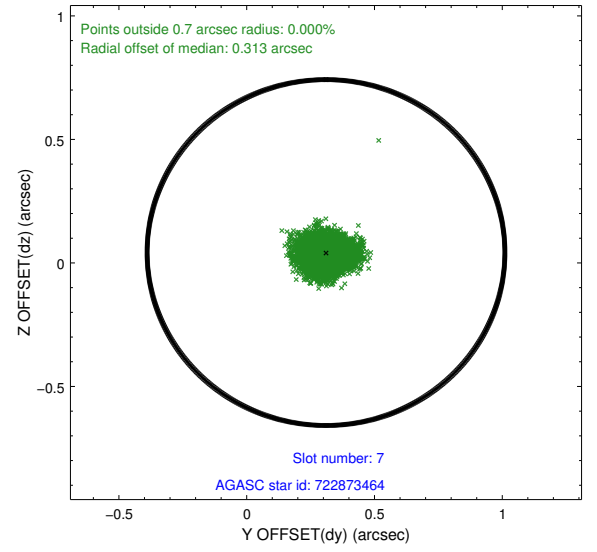
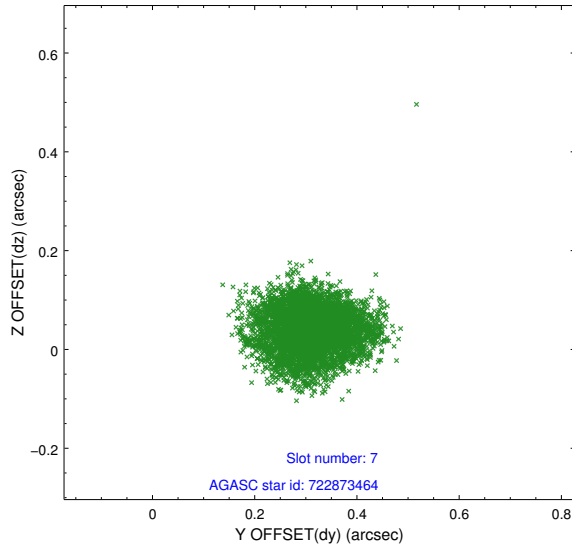
2.4.3 Slot 5



2.4.4 Slot 6

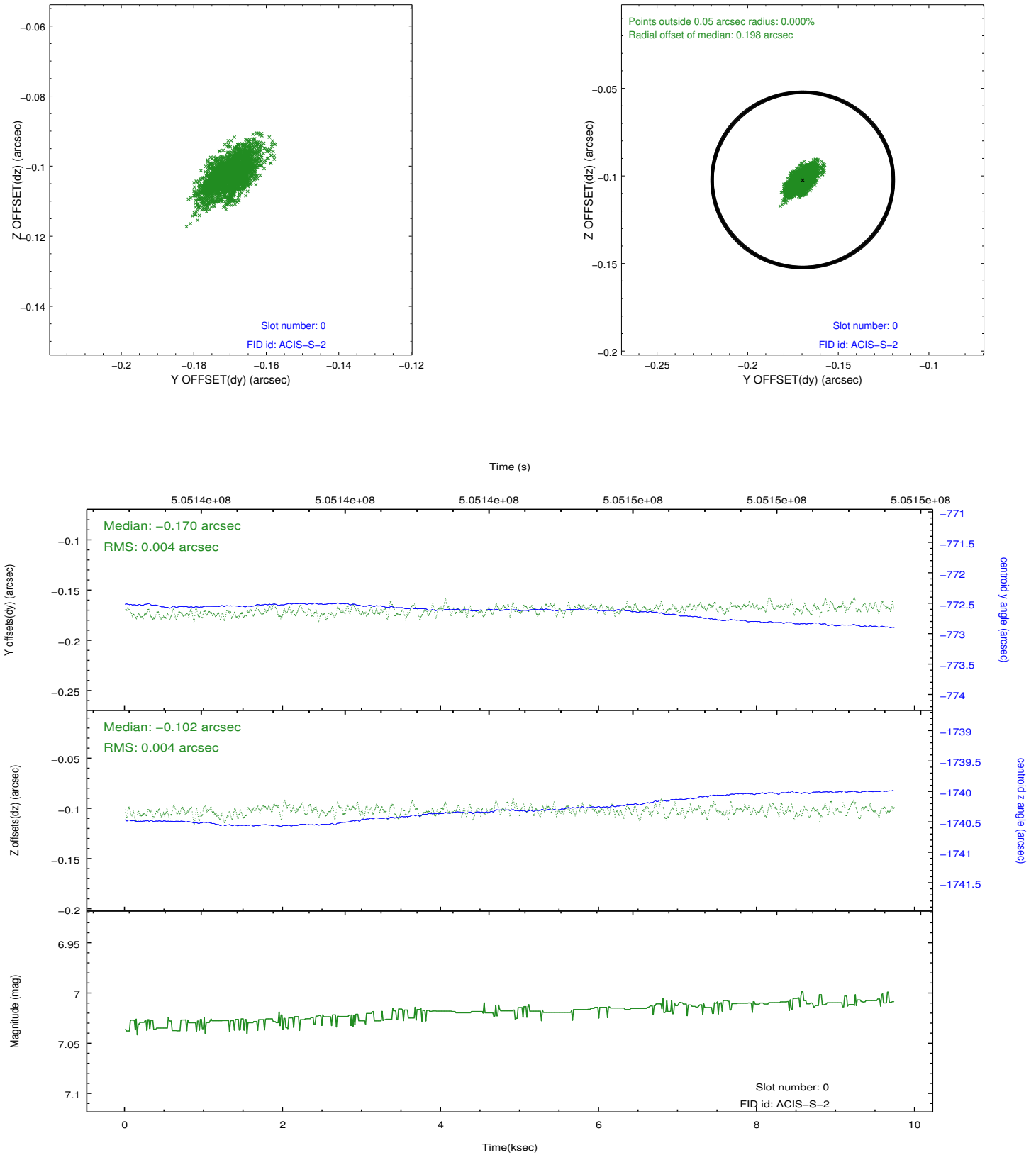


2.4.5 Slot 7

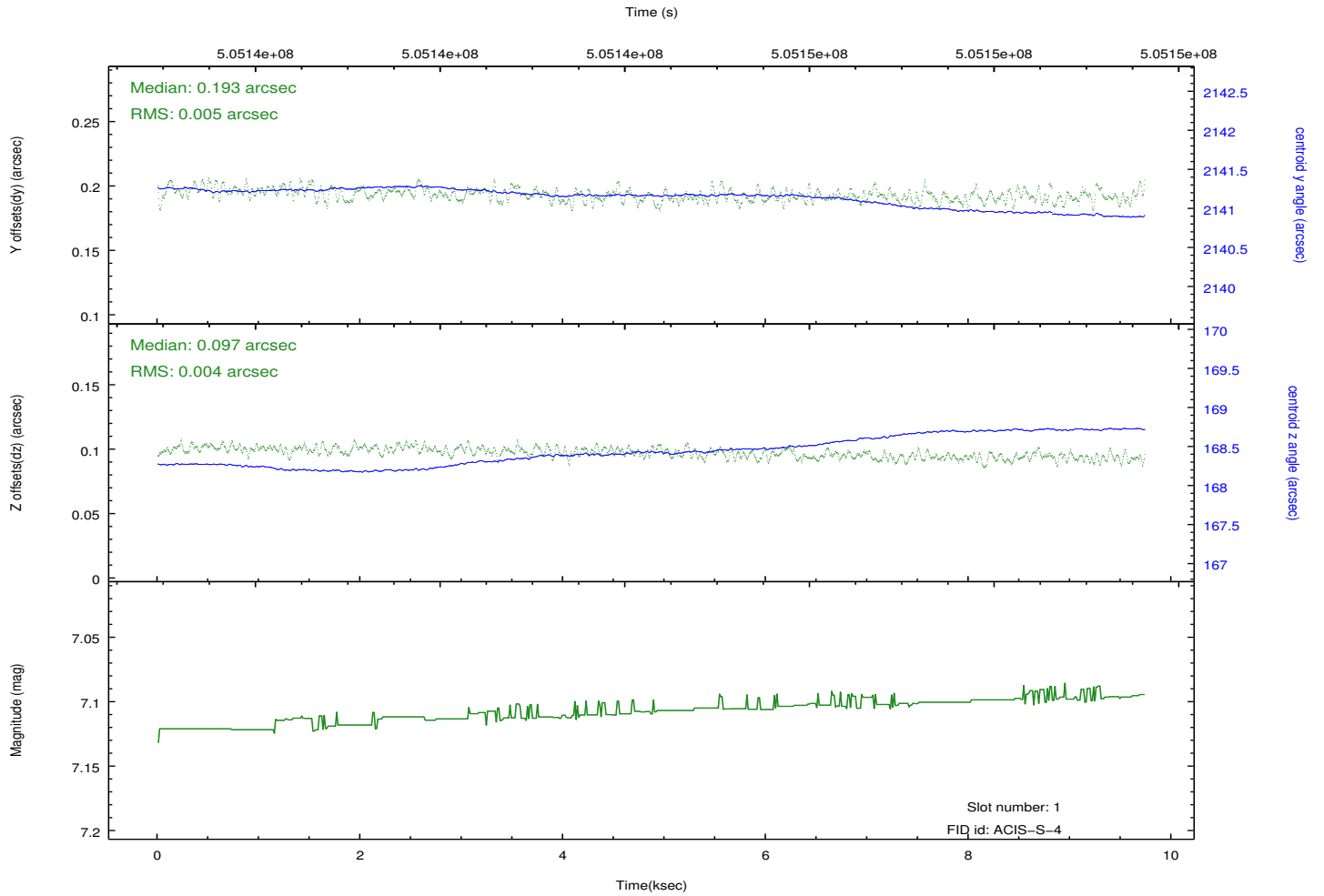
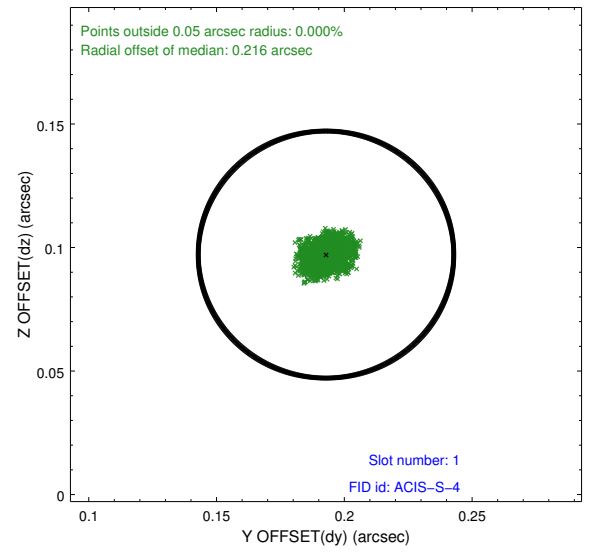
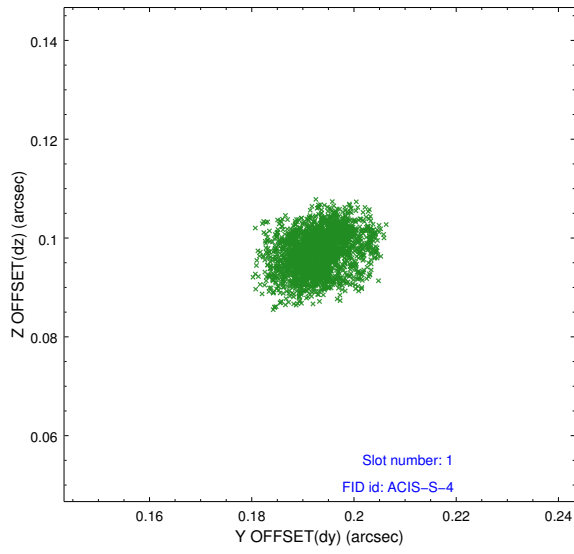


2.5 FID Slots

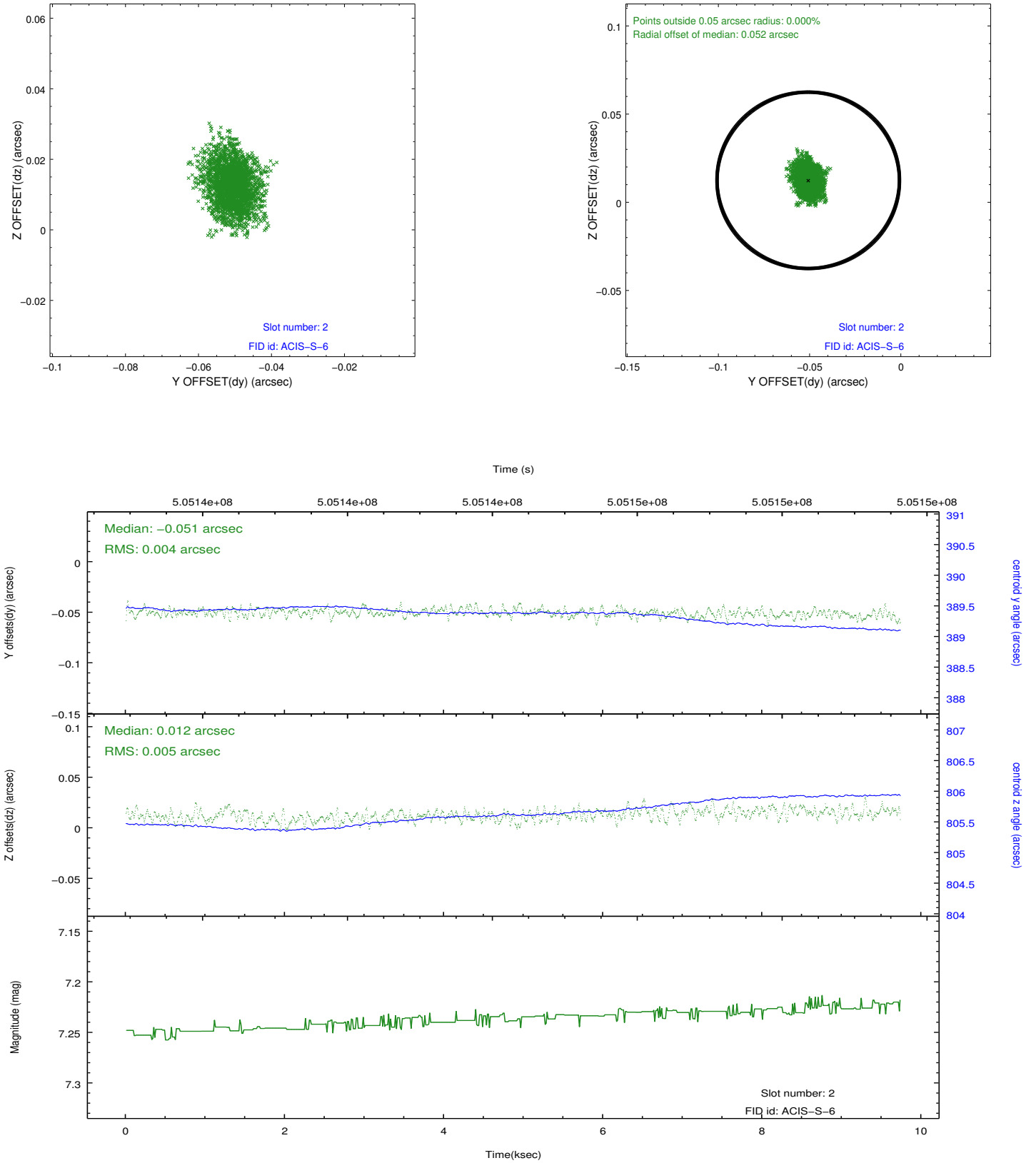
2.5.1 Slot 0



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)	2014.12.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	9.651999424696

A.2 Comments

Joint proposal with HST.

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.