

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 13632 - L2 Version 2
Chandra X-Ray Center

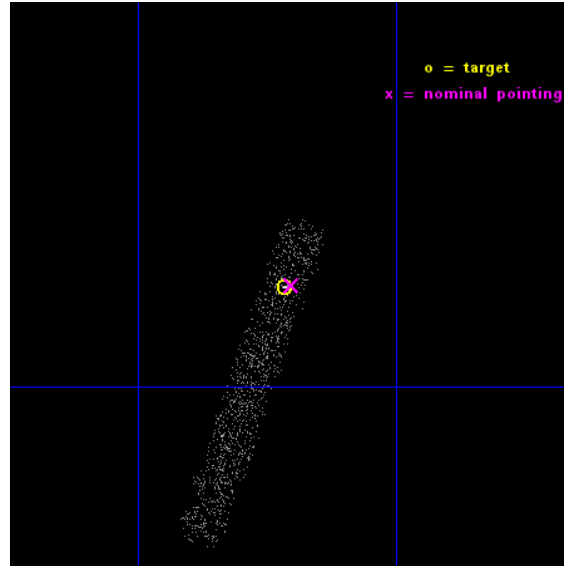
L2 Processing Date : Nov 29 2014

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1 Front

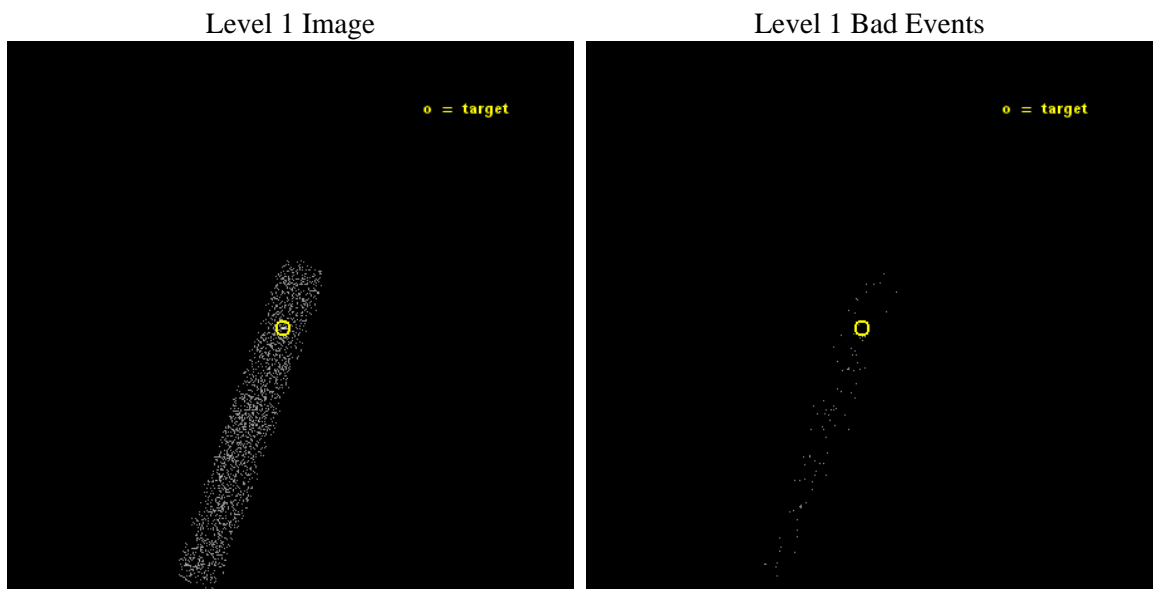
seq_num	200786	Sequence number
obs_id	13632	Observation id
title	A Search for X-ray Emission from Colliding Magnetospheres in Young Eccentric Stellar Binaries	Proposal title
observer	Dr. Konstantin Getman	Principal investigator
object	UZTauE_P3	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	68.179167	Observer's specified target RA [deg]
dec_targ	25.875306	Observer's specified target Dec [deg]
ra_nom	68.175689622254	Nominal RA [deg]
dec_nom	25.875968992673	Nominal Dec [deg]
roll_nom	109.78872509183	Nominal Roll [deg]
revision	2	Processing version of data
ontime	3070.3998169899	Sum of GTIs [s]
livetime	2784.690565019	Livetime [s]
ontime7	3070.3998169899	Sum of GTIs [s]
l2events	1359	Number of level 2 events



2 OBI

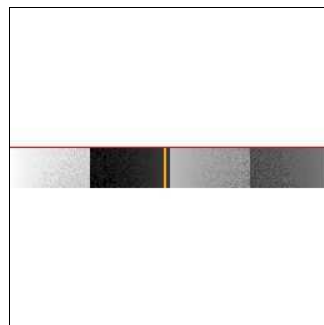
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3000.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	3070.3998169899	Sum of GTIs [s]
caldsver	4.6.4	 	ontime7	3070.3998169899	Sum of GTIs [s]
date	2014-11-29T12:08:33	Date and time of file creation	l1events	2480	Number of level 1 events
revision	2	Processing version of data			

2.1.4 Events

	ccd 7
level 1 events	2480
rejected events	1051
rejected %	42%

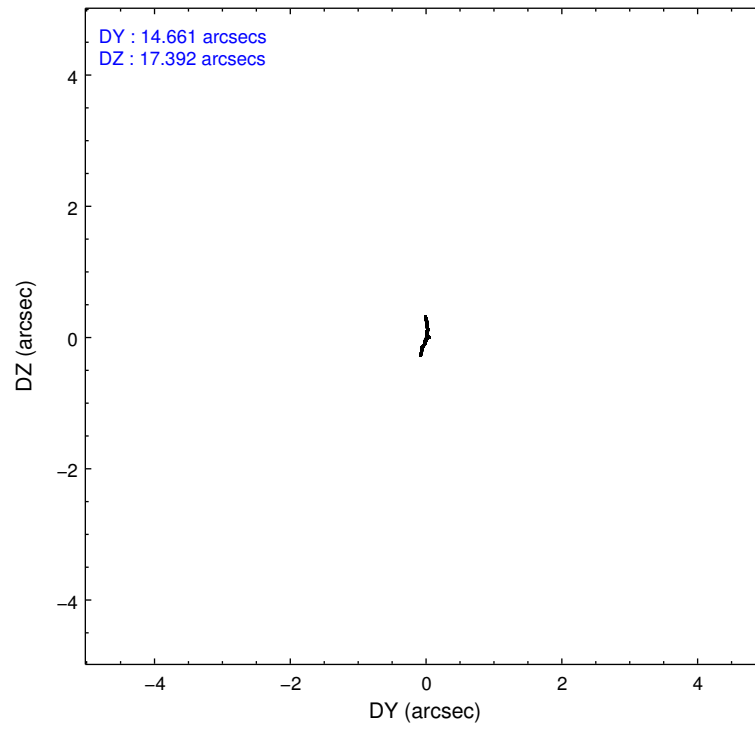
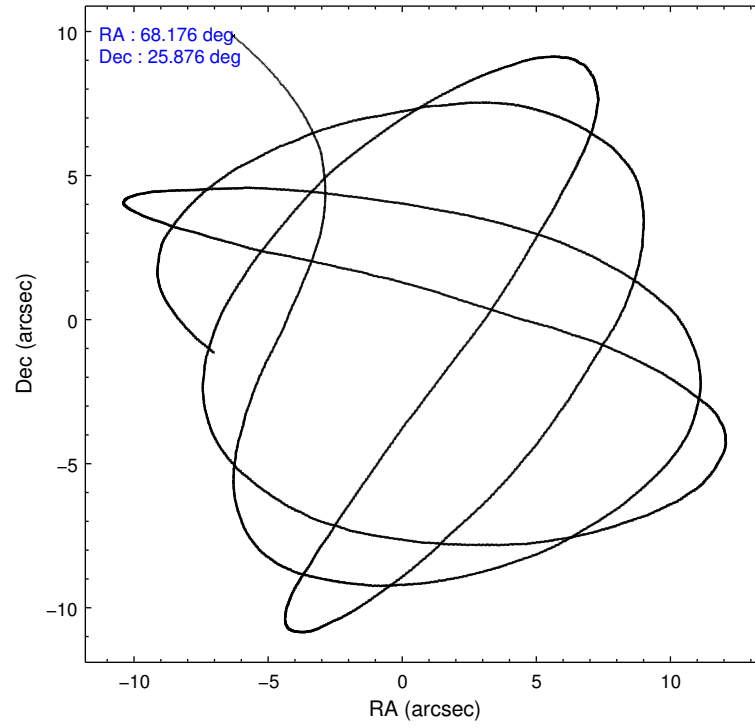
	ccd 7
grade 0 events	172
	6%
grade 1 events	5
	0%
grade 2 events	323
	13%
grade 3 events	200
	8%
grade 4 events	186
	7%
grade 5 events	223
	8%
grade 6 events	548
	22%
grade 7 events	823
	33%

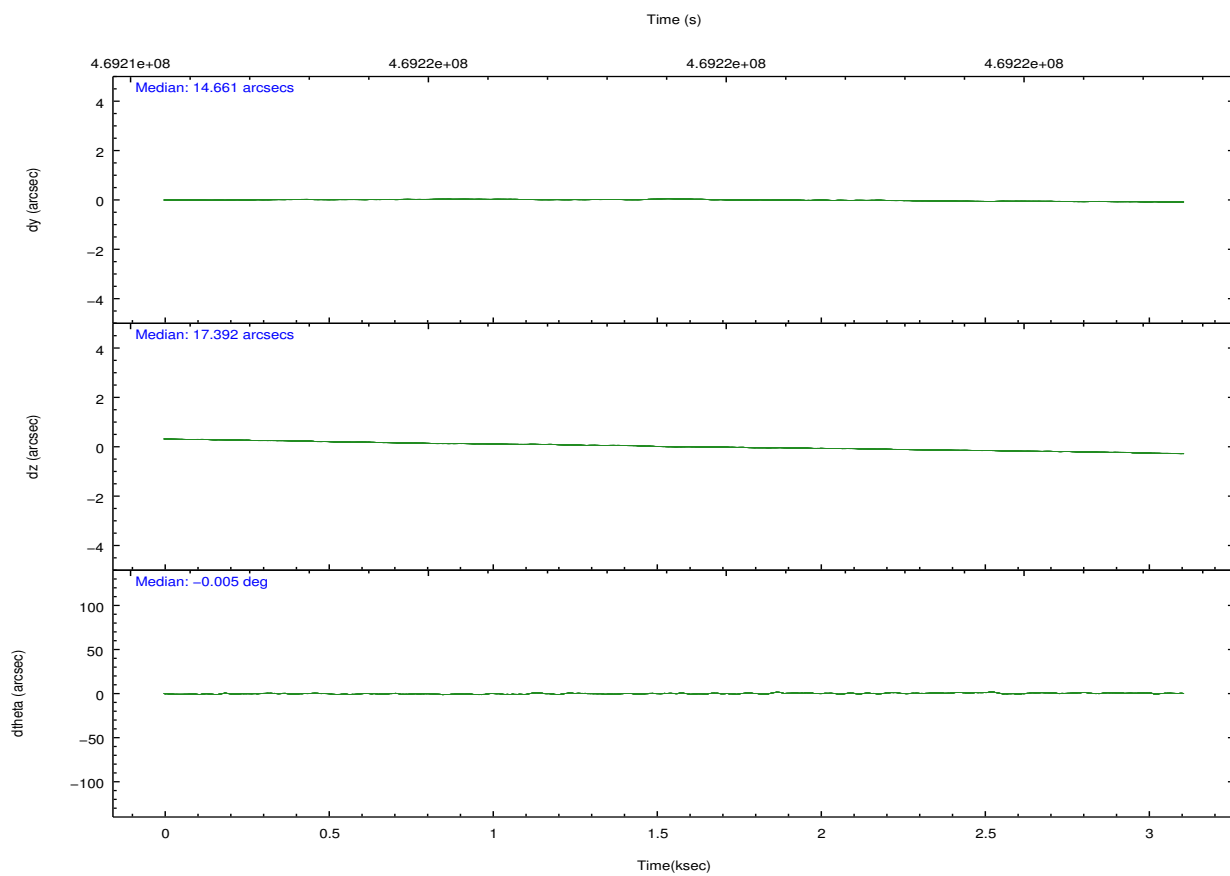
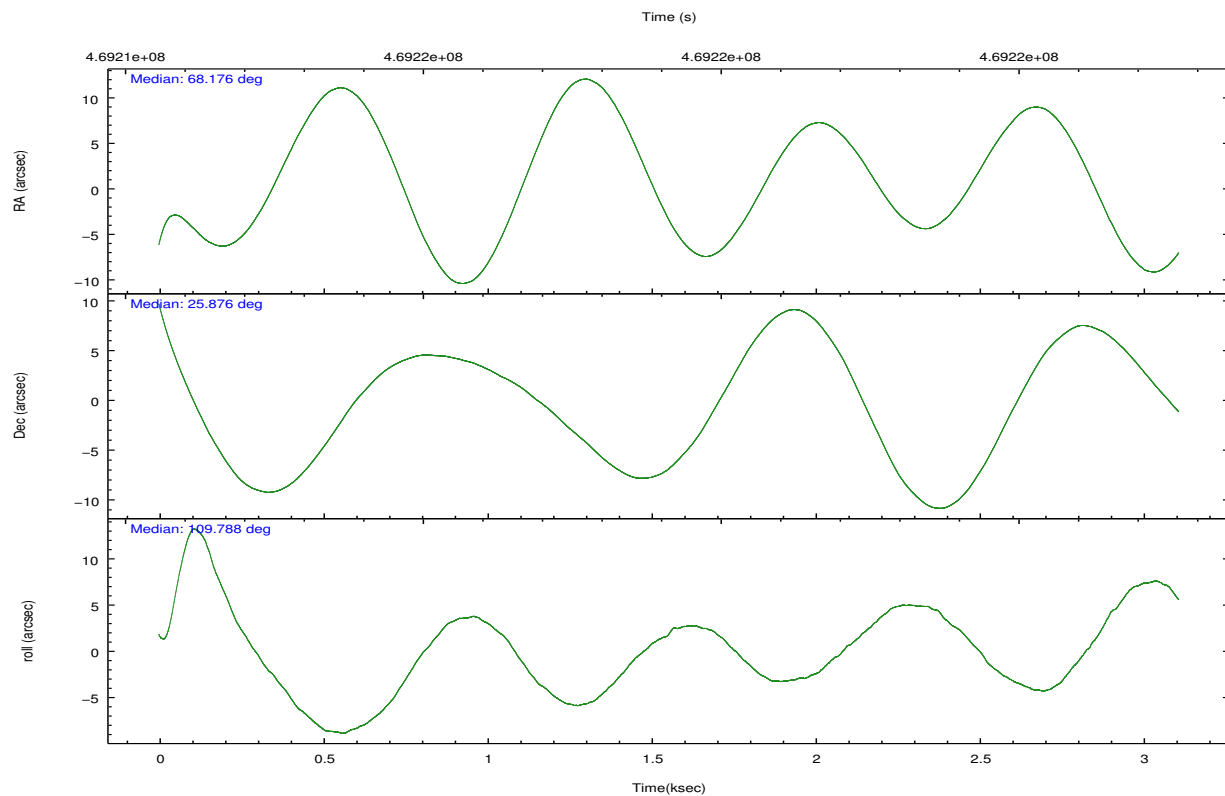
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-7	ACIS-7
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	68.199351	68.17568962225354
[deg] Pointing Dec	25.858607	25.87596899267319
[deg] Pointing Roll	109.621807	109.7887250918256
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-190.132523	-190.145094680475
[mm] SIM translation stage offset	0	0.01257209746719923
Phase constraints	Y	Y
[d] Phase period	19.131000	19.131000
[d] Phase epoch (MJD)	55613.144000	55613.144000
Phase start	0.000000	0.000000
Phase end	0.010000	0.010000
Phase start error	0.010000	0.010000
Phase end error	0.010000	0.010000
[s] Observation start time (MET)	469214377.184000	469213044.1042
Observation start date	2012-11-13T17:18:30	2012-11-13T16:57:24
[s] Observation end time (MET)	469217377.184000	469218417.15448
Observation end date	2012-11-13T18:08:30	2012-11-13T18:26:57
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	CUSTOM	1/8
Subarray start row	449	449
Subarray row count	128	128
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	0.4

2.3 Aspect



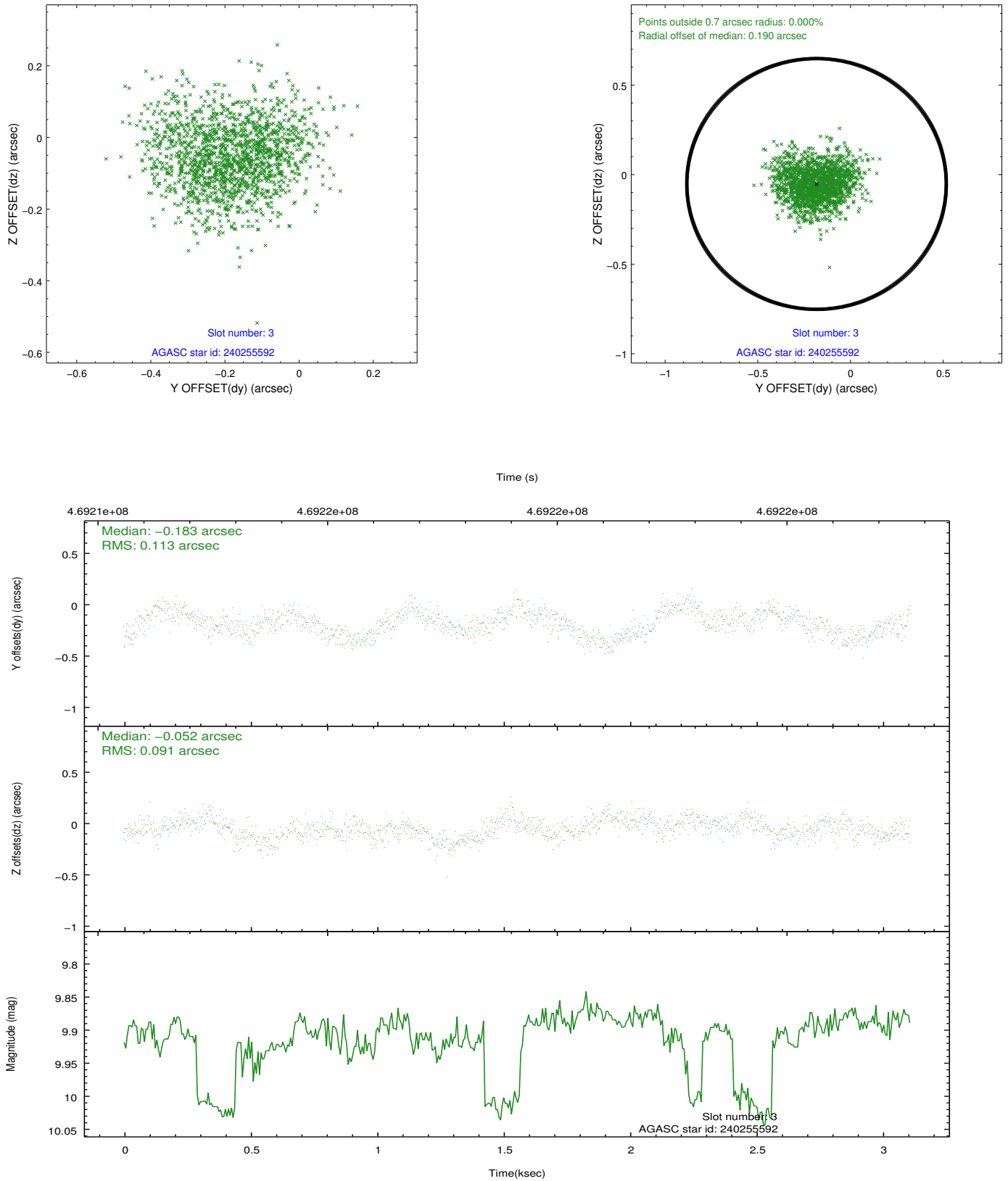


Slot Statistics

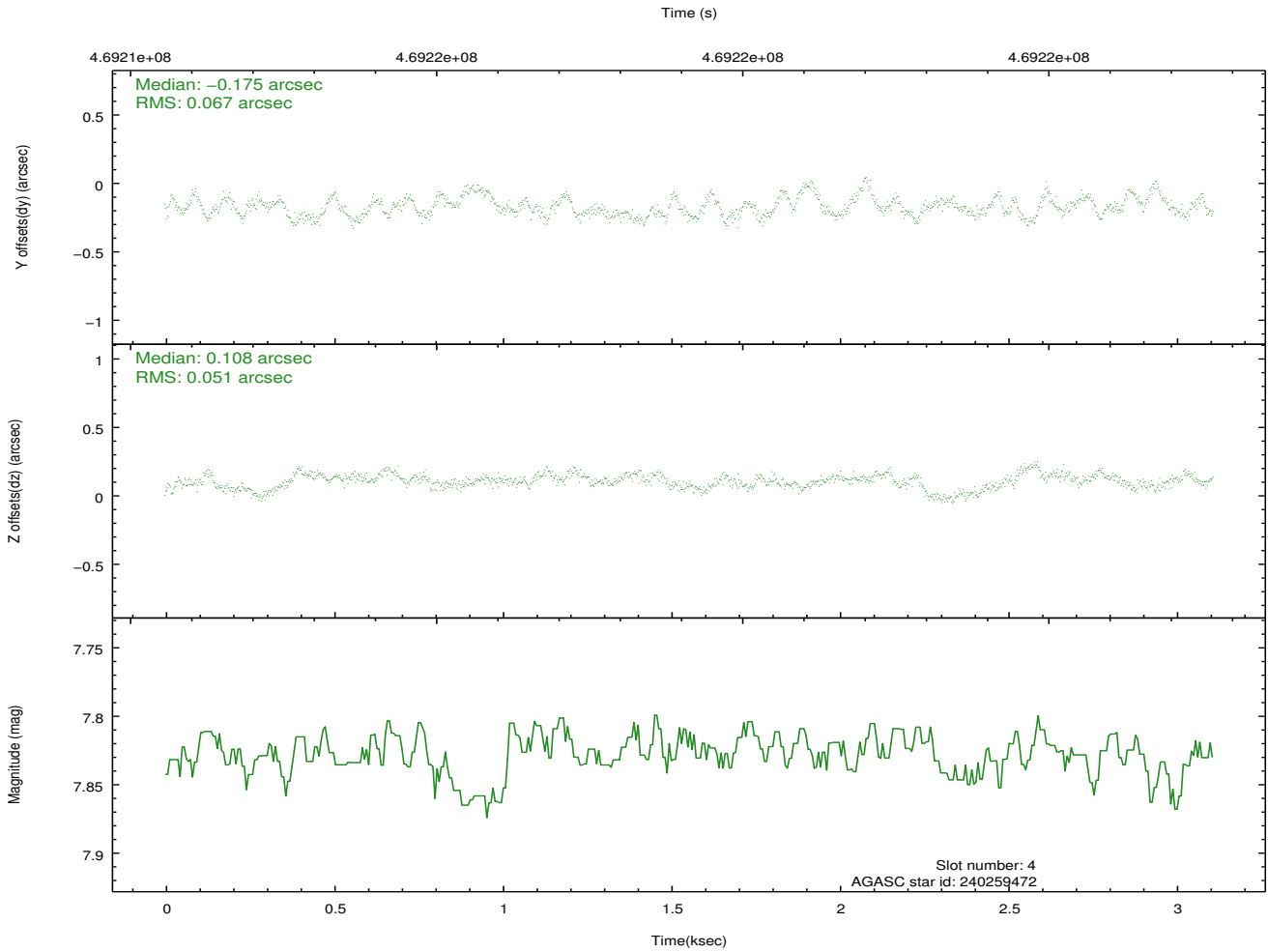
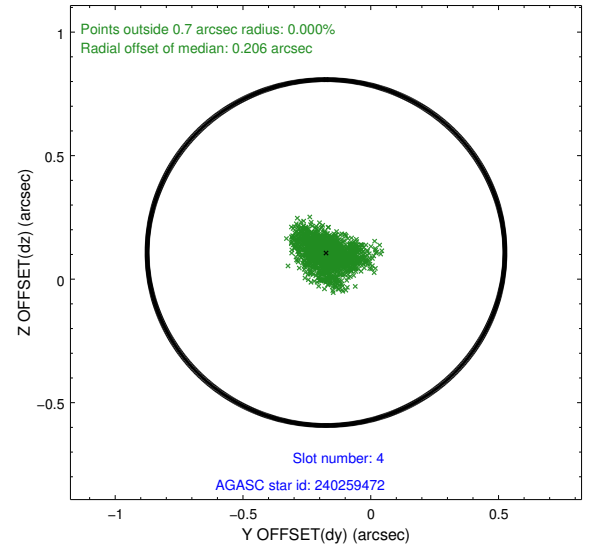
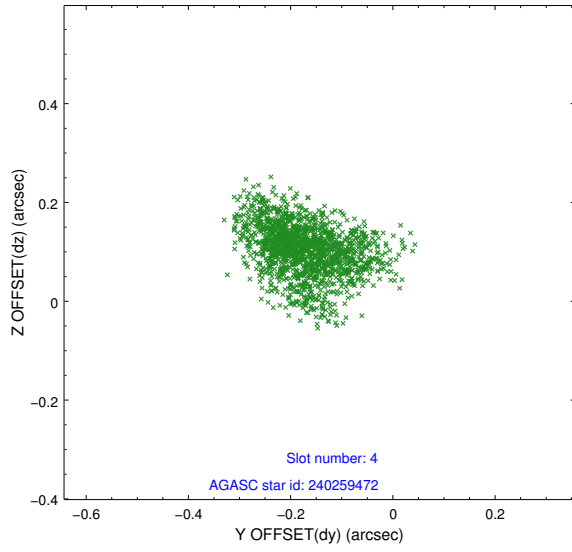
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	7.00	759	0.164	-0.066	0.008	0.013	0.000000	0.000000	928.57	-1734.45
1	FID		ACIS-S-2	6.92	759	-0.081	0.005	0.013	0.019	0.000000	0.000000	-766.44	-1741.04
2	FID		ACIS-S-5	7.03	759	-0.107	0.068	0.008	0.012	0.000000	0.000000	-1821.77	161.13
3	GUIDE	used	240255592	9.91	1508	-0.183	-0.052	0.156	0.245	67.373587	26.152056	1898.81	2155.47
4	GUIDE	used	240259472	7.83	1518	-0.175	0.108	0.091	0.145	68.090831	25.185490	-2162.75	1147.82
5	GUIDE	used	240259648	9.06	1515	0.082	-0.035	0.099	0.157	68.773335	25.433463	-2065.96	-1244.89
6	GUIDE	used	240260568	10.10	1518	0.362	0.259	0.150	0.235	68.738938	25.619304	-1397.42	-1362.76
7	GUIDE	used	240780704	9.32	1516	-0.085	-0.275	0.113	0.186	67.945198	26.407108	2134.72	106.99

2.4 Star Slots

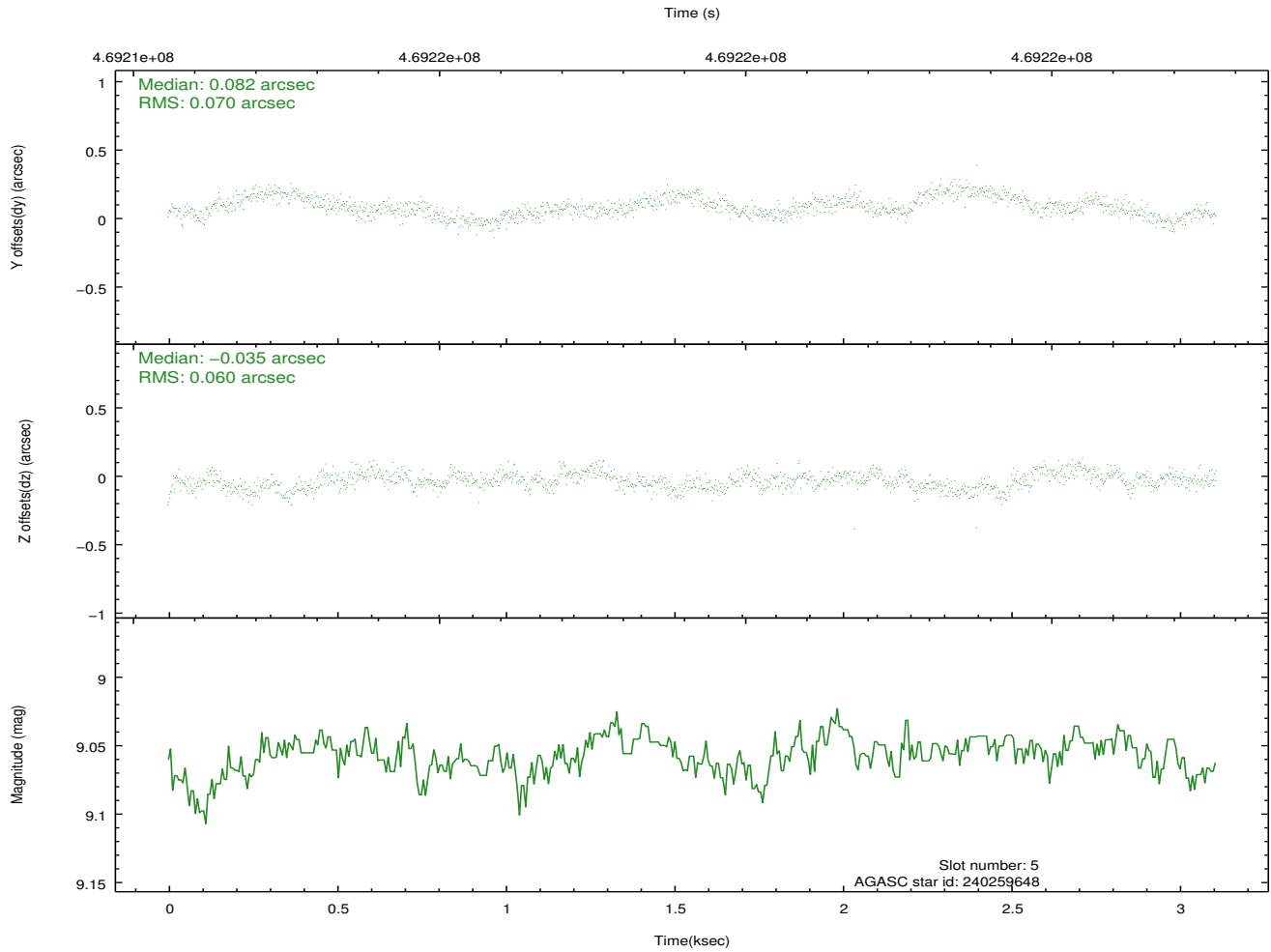
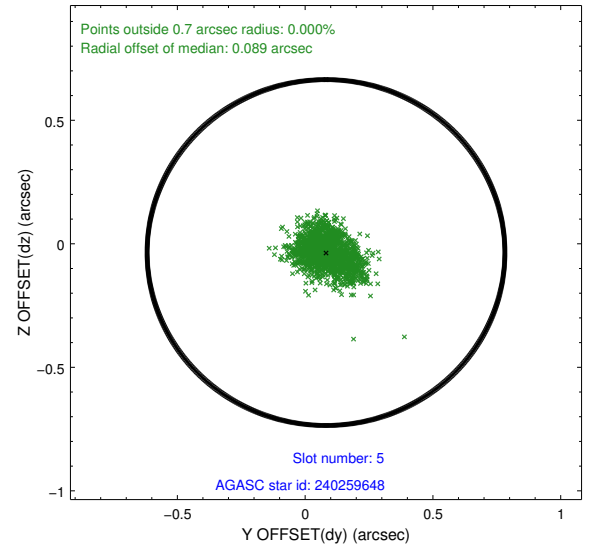
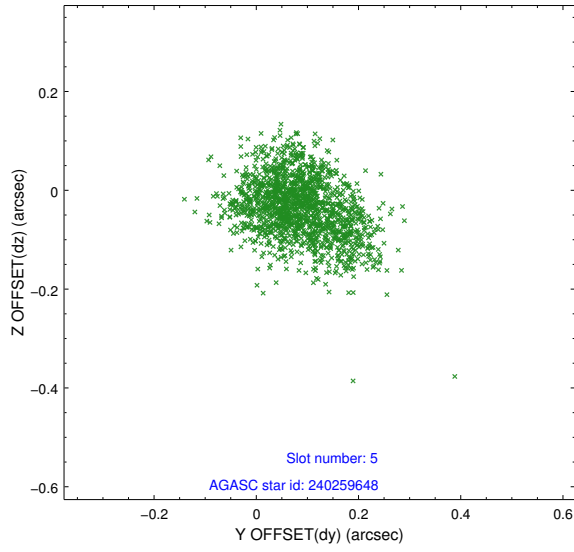
2.4.1 Slot 3



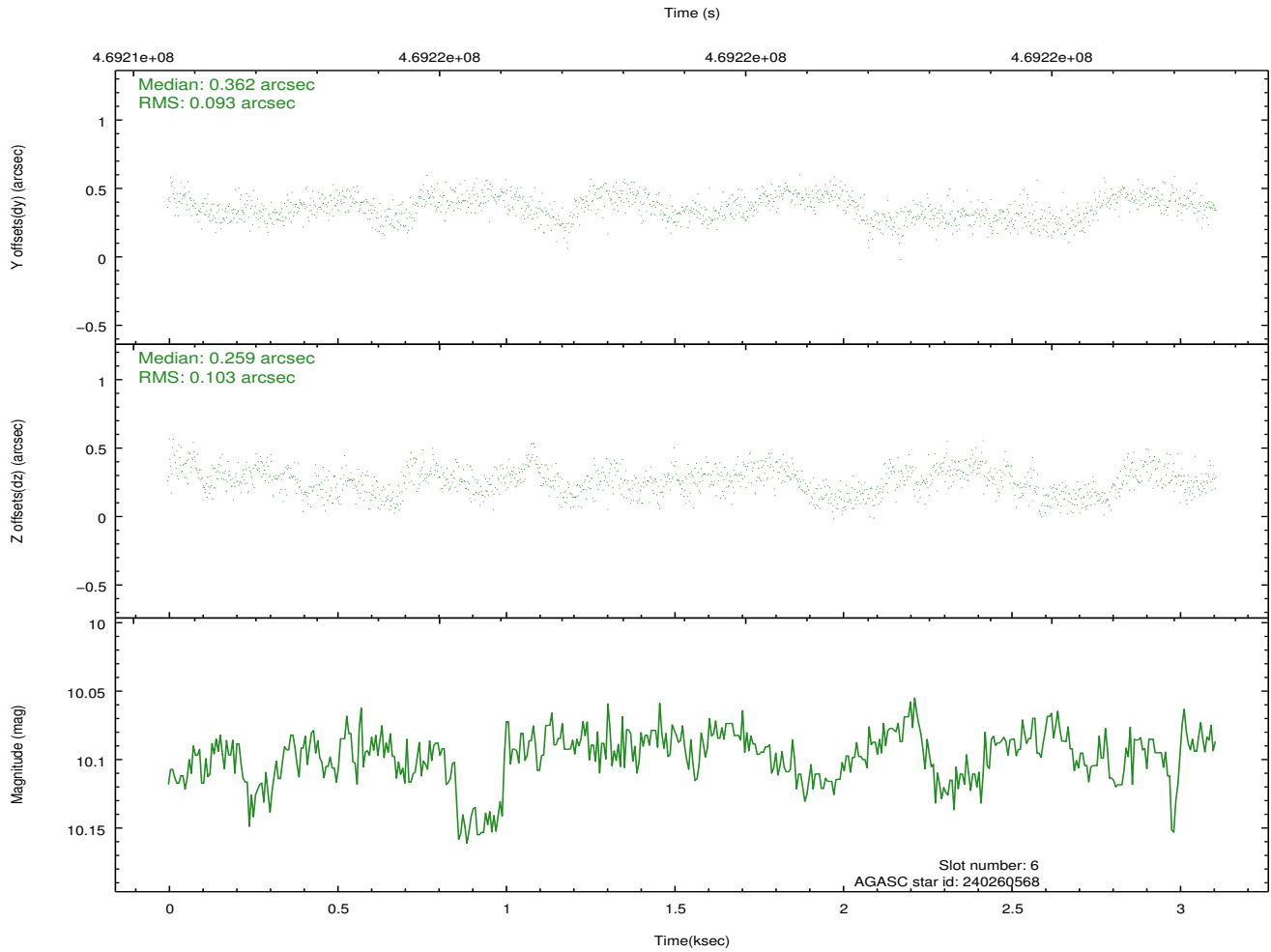
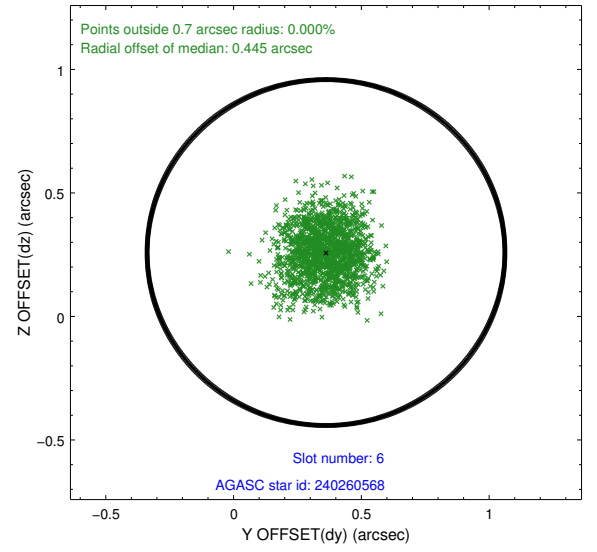
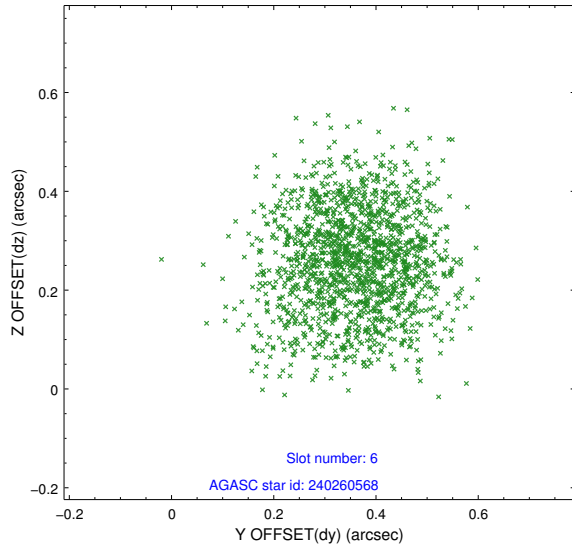
2.4.2 Slot 4



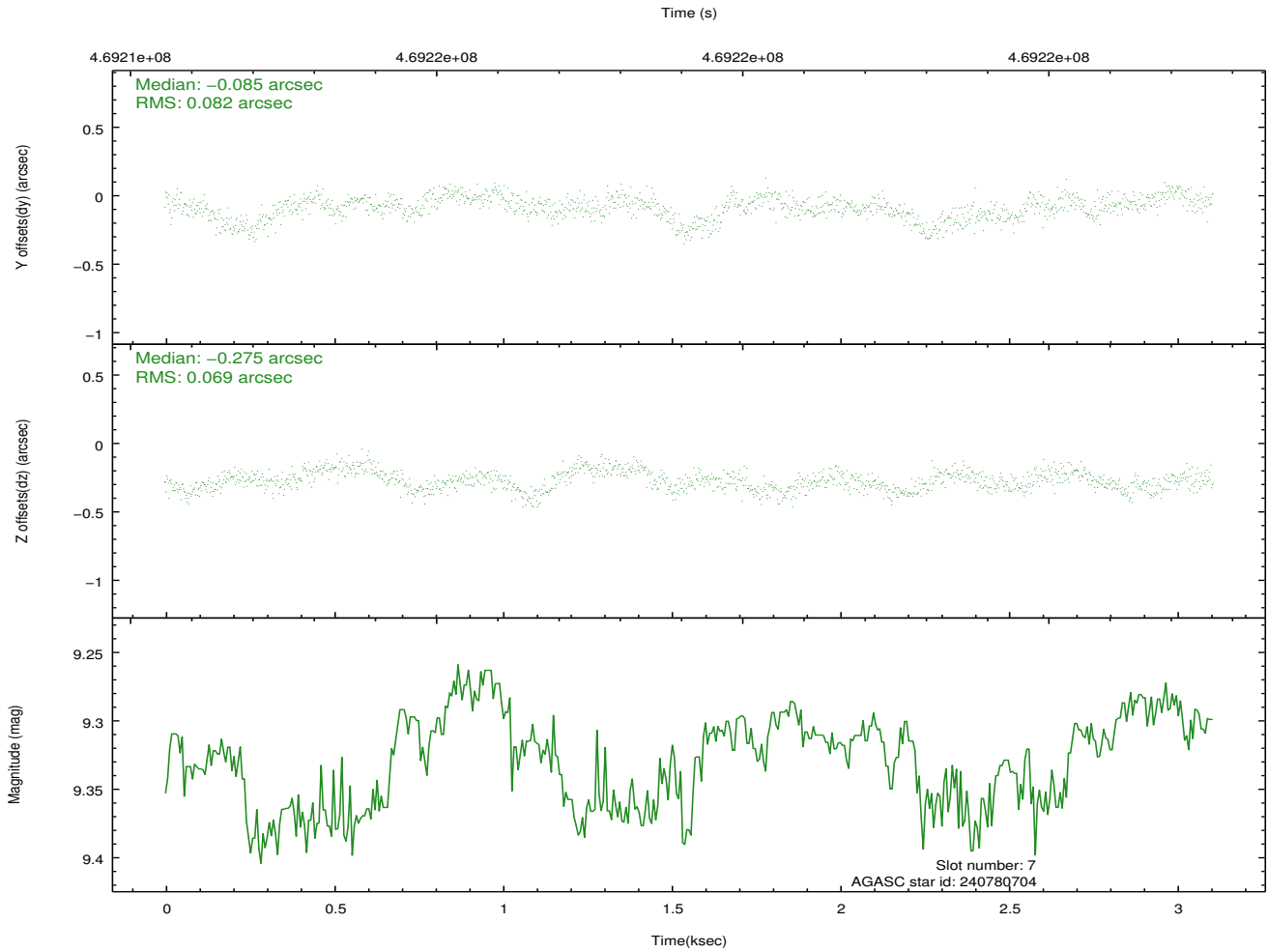
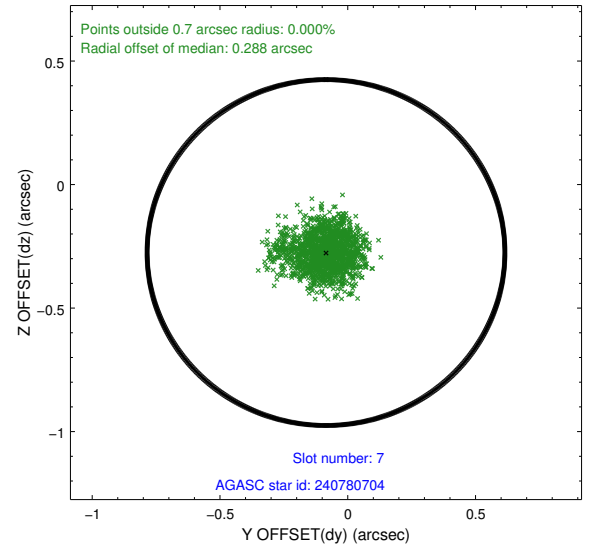
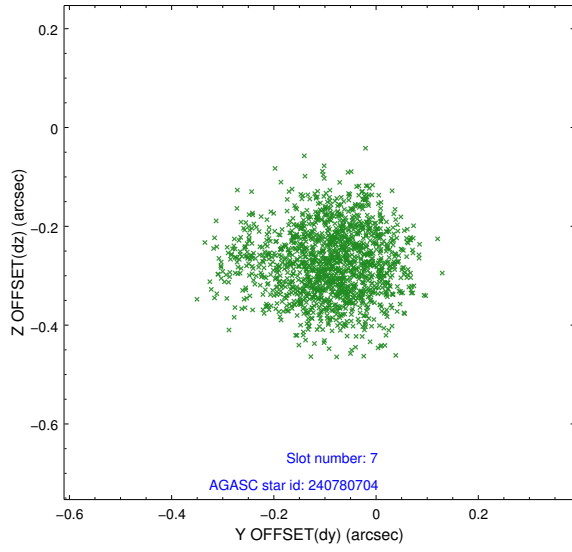
2.4.3 Slot 5



2.4.4 Slot 6

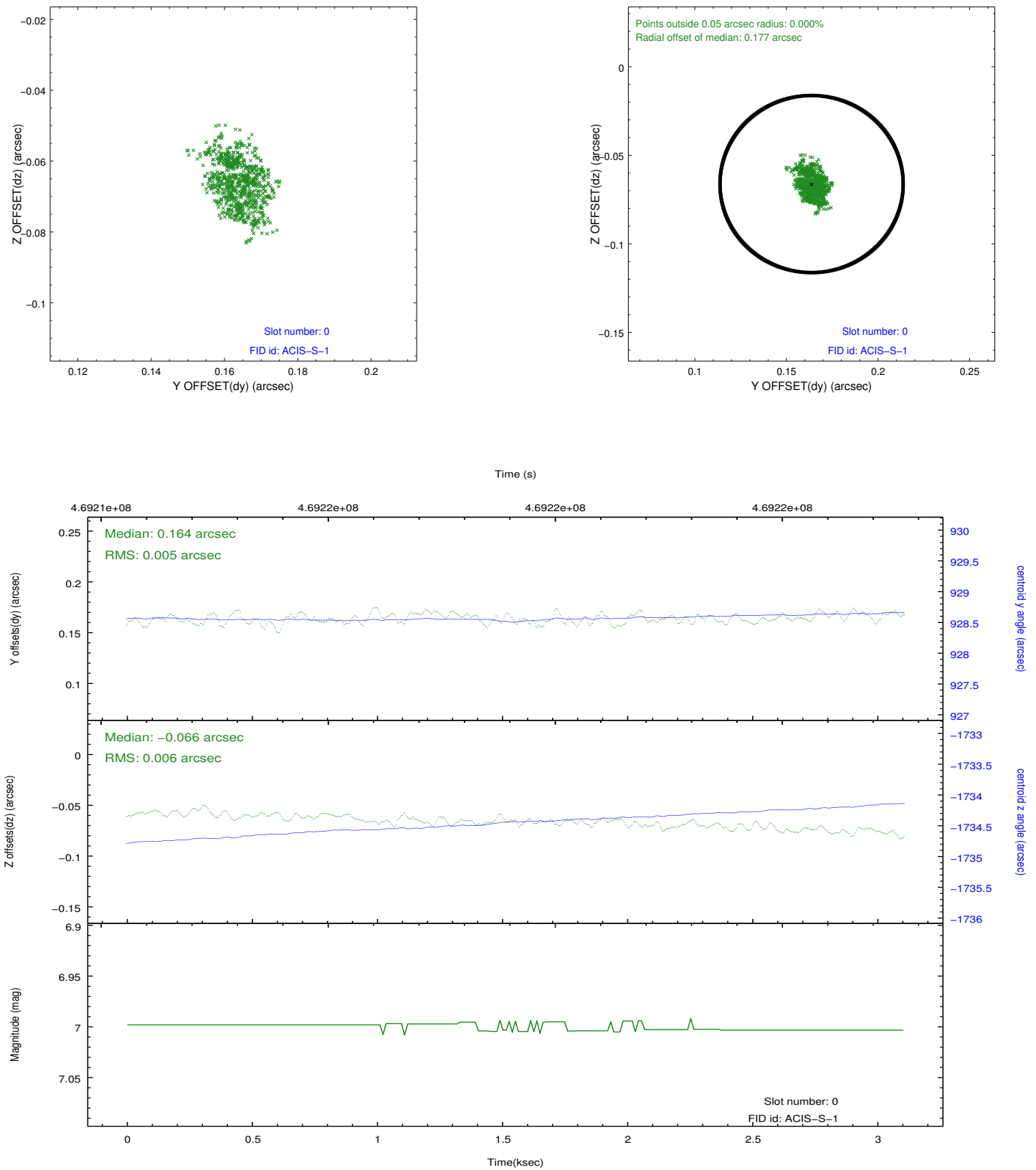


2.4.5 Slot 7

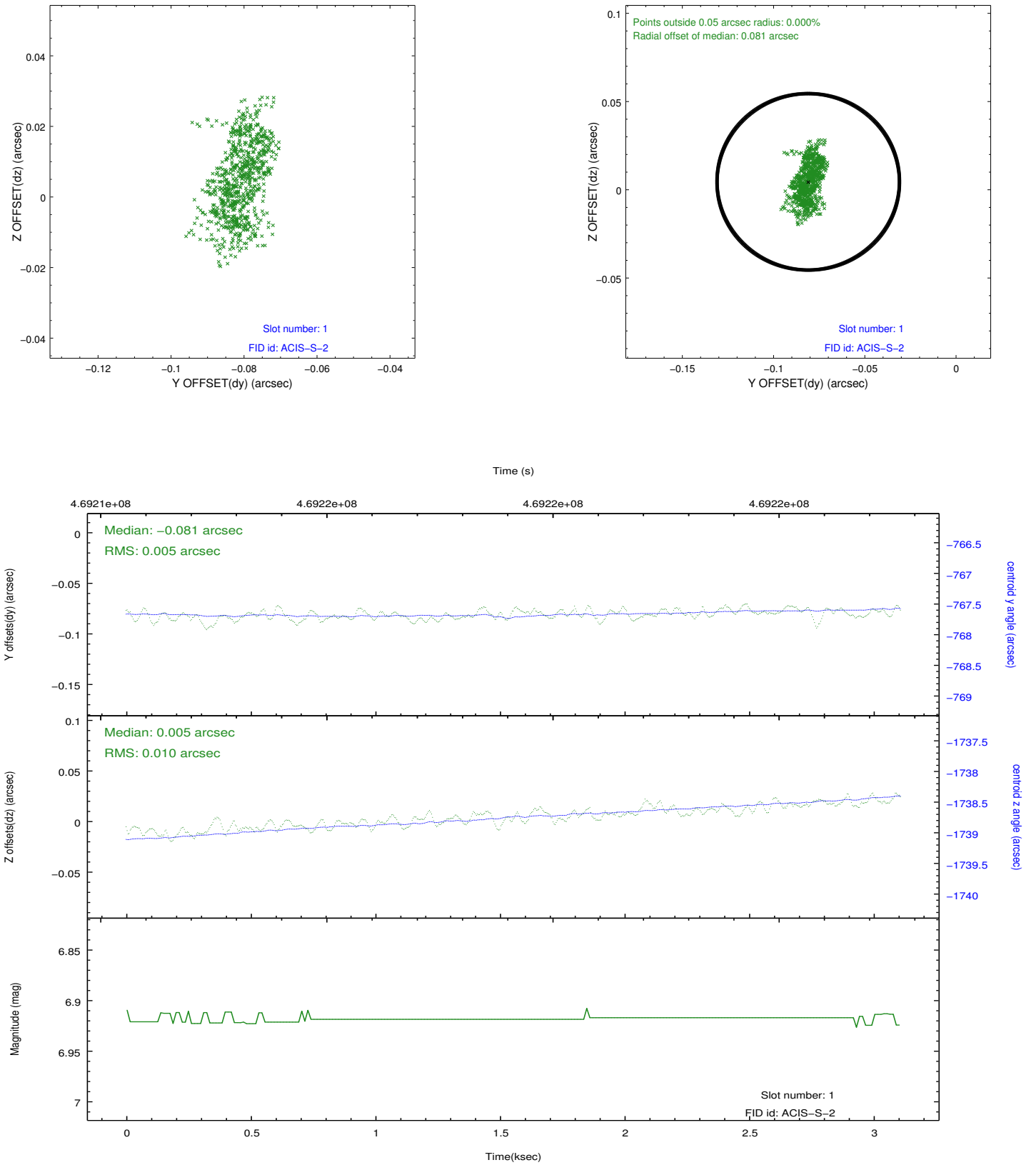


2.5 FID Slots

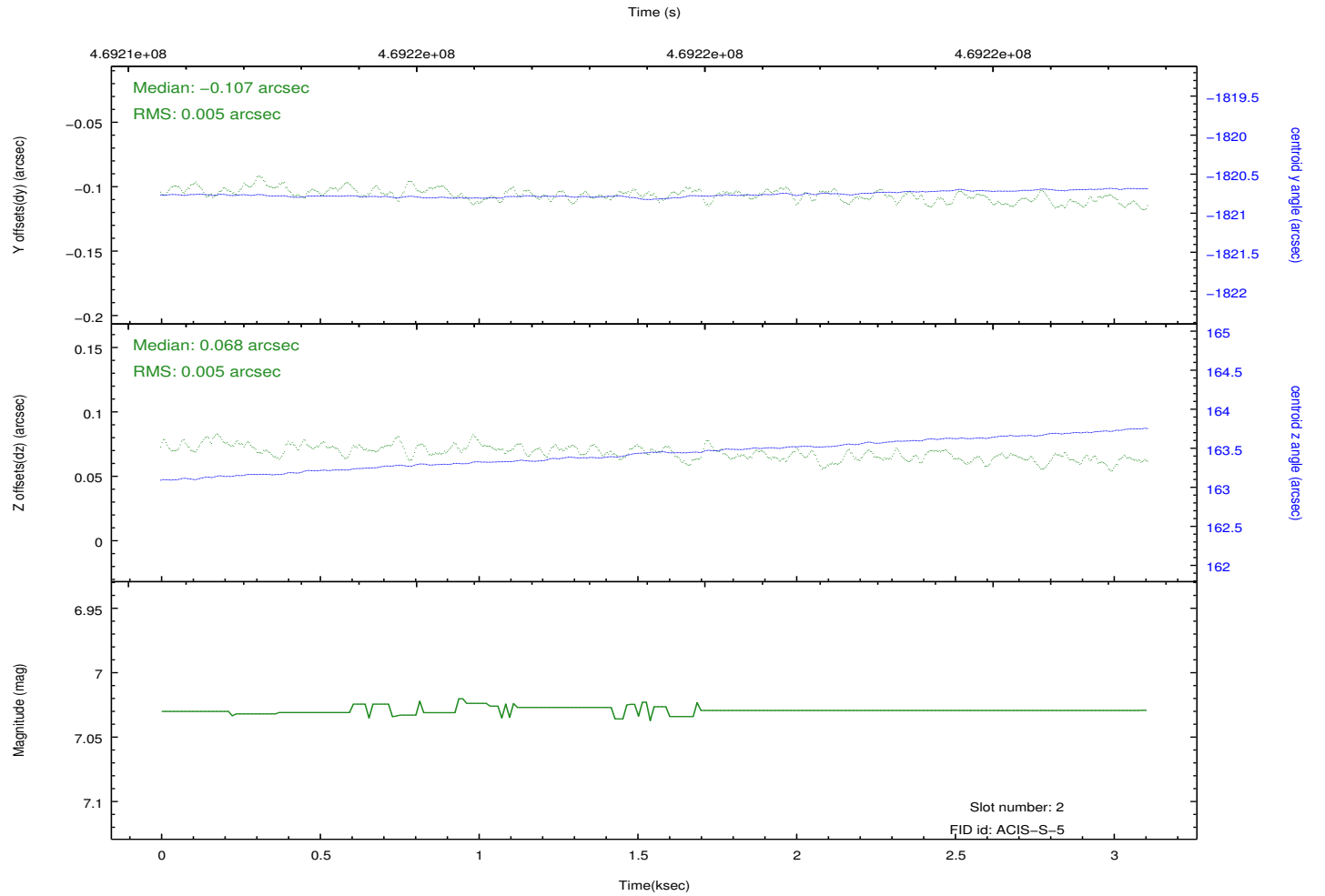
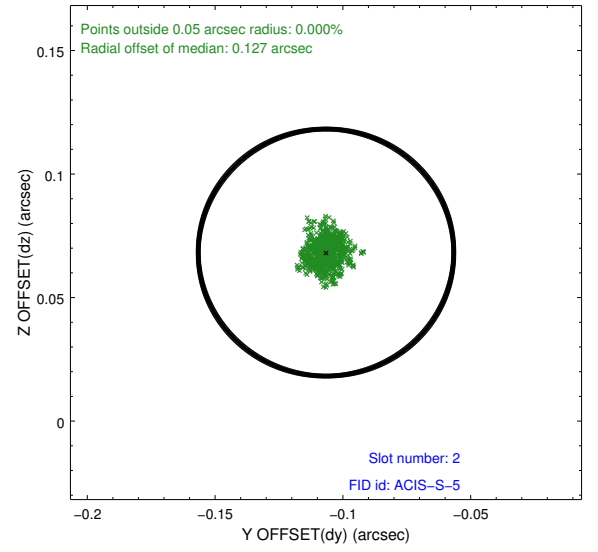
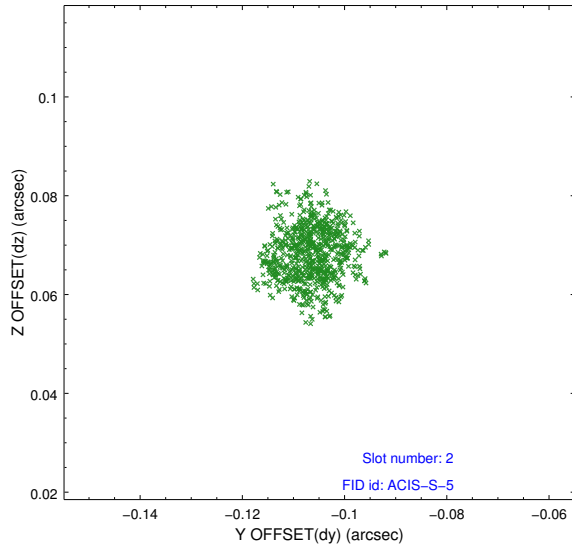
2.5.1 Slot 0



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)	2014.12.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.0703998169899

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.