

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 15358 - L2 Version 2
Chandra X-Ray Center

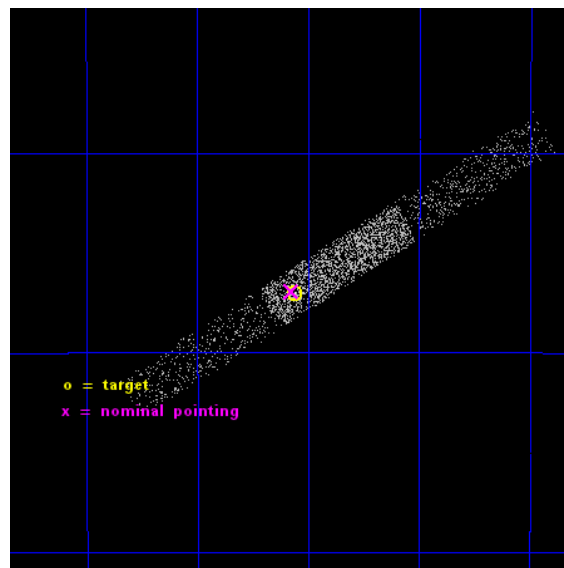
L2 Processing Date : Nov 29 2014

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1 Front

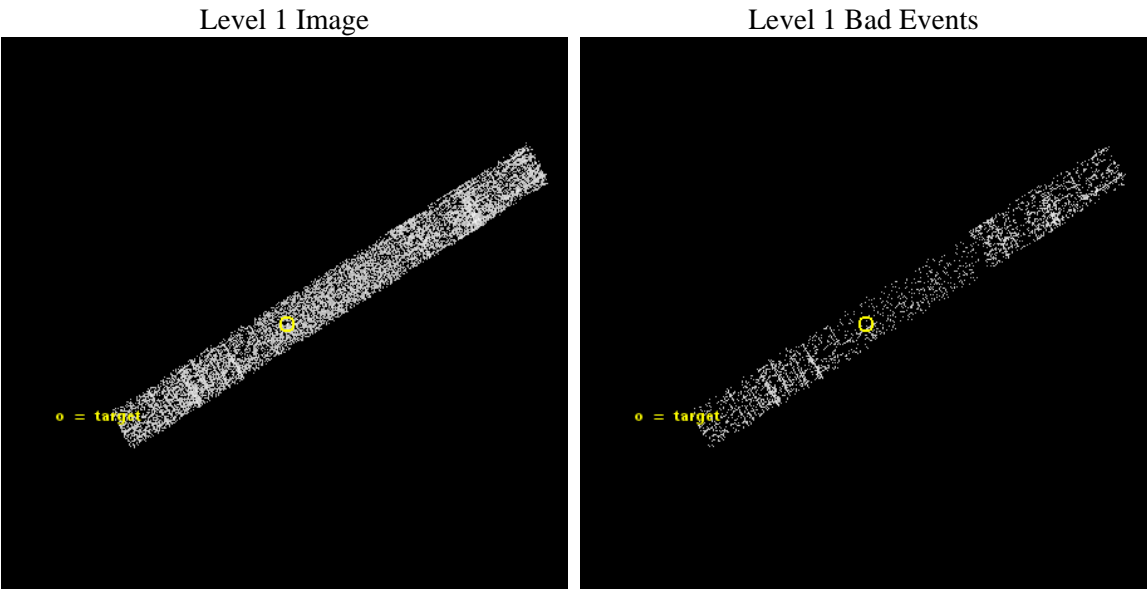
seq_num	702918	Sequence number
obs_id	15358	Observation id
title	Clarifying the Nature of Weak-Line Quasars with Chandra Spectroscopy and Snapshots	Proposal title
observer	Professor Gordon Garmire	Principal investigator
object	HE 0141-3932	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	25.890417	Observer's specified target RA [deg]
dec_targ	-39.283361	Observer's specified target Dec [deg]
ra_nom	25.893978929165	Nominal RA [deg]
dec_nom	-39.282174778562	Nominal Dec [deg]
roll_nom	328.29954120536	Nominal Roll [deg]
revision	2	Processing version of data
ontime	3094.0321166515	Sum of GTIs [s]
livetime	2959.0972806537	Livetime [s]
ontime6	3093.9910766482	Sum of GTIs [s]
ontime7	3094.0321166515	Sum of GTIs [s]
ontime8	3093.9500366449	Sum of GTIs [s]
l2events	3182	Number of level 2 events



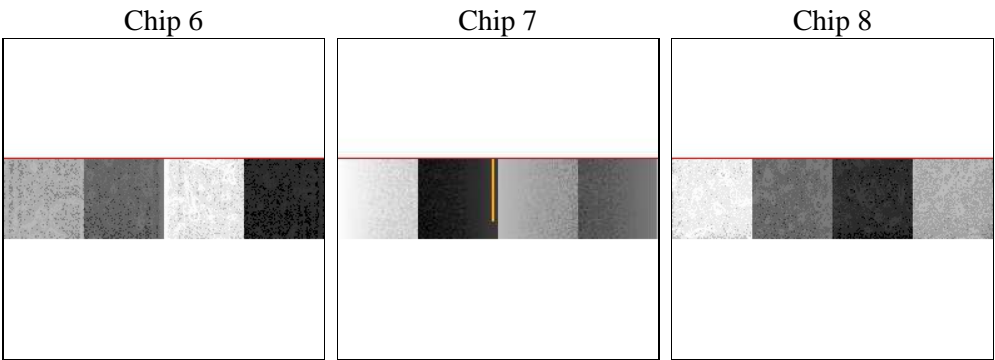
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



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	3094.0321166515	Sum of GTIs [s]
caldsver	4.6.4	 	ontime6	3093.9910766482	Sum of GTIs [s]
date	2014-11-29T15:06:23	Date and time of file creation	ontime7	3094.0321166515	Sum of GTIs [s]
revision	2	Processing version of data	ontime8	3093.9500366449	Sum of GTIs [s]
			l1events	15632	Number of level 1 events

2.1.4 Events

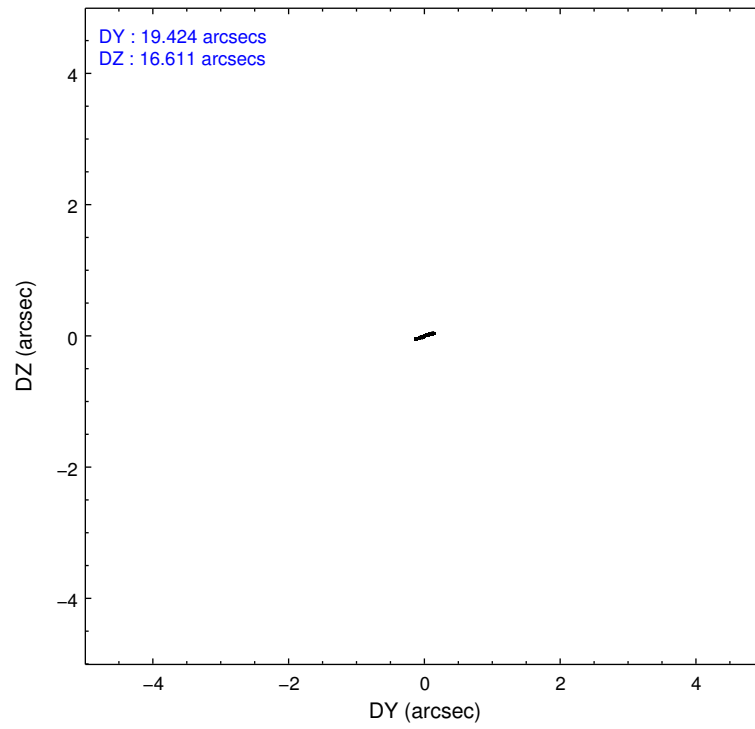
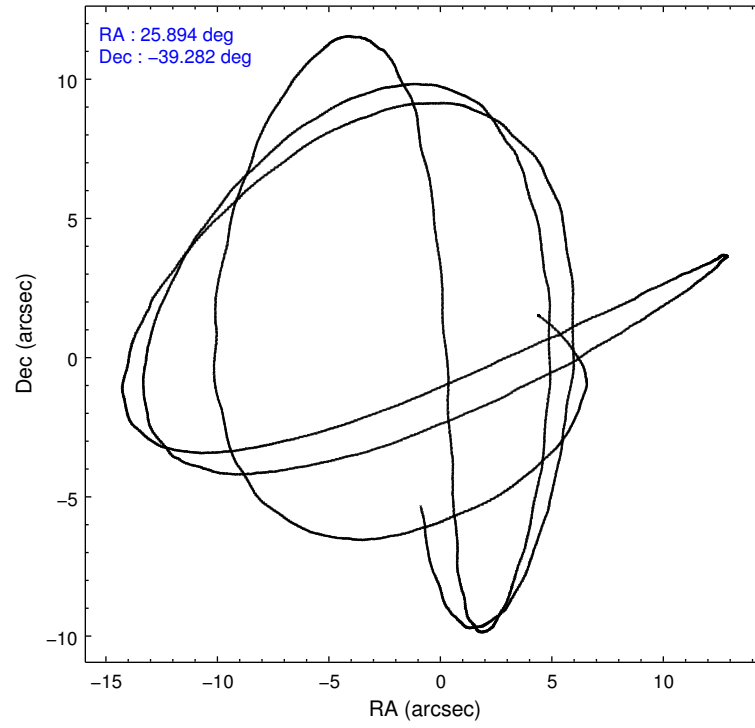
	ccd 6	ccd 7	ccd 8
level 1 events	4832	4618	6182
rejected events	4300	2292	4632
rejected %	88%	49%	74%

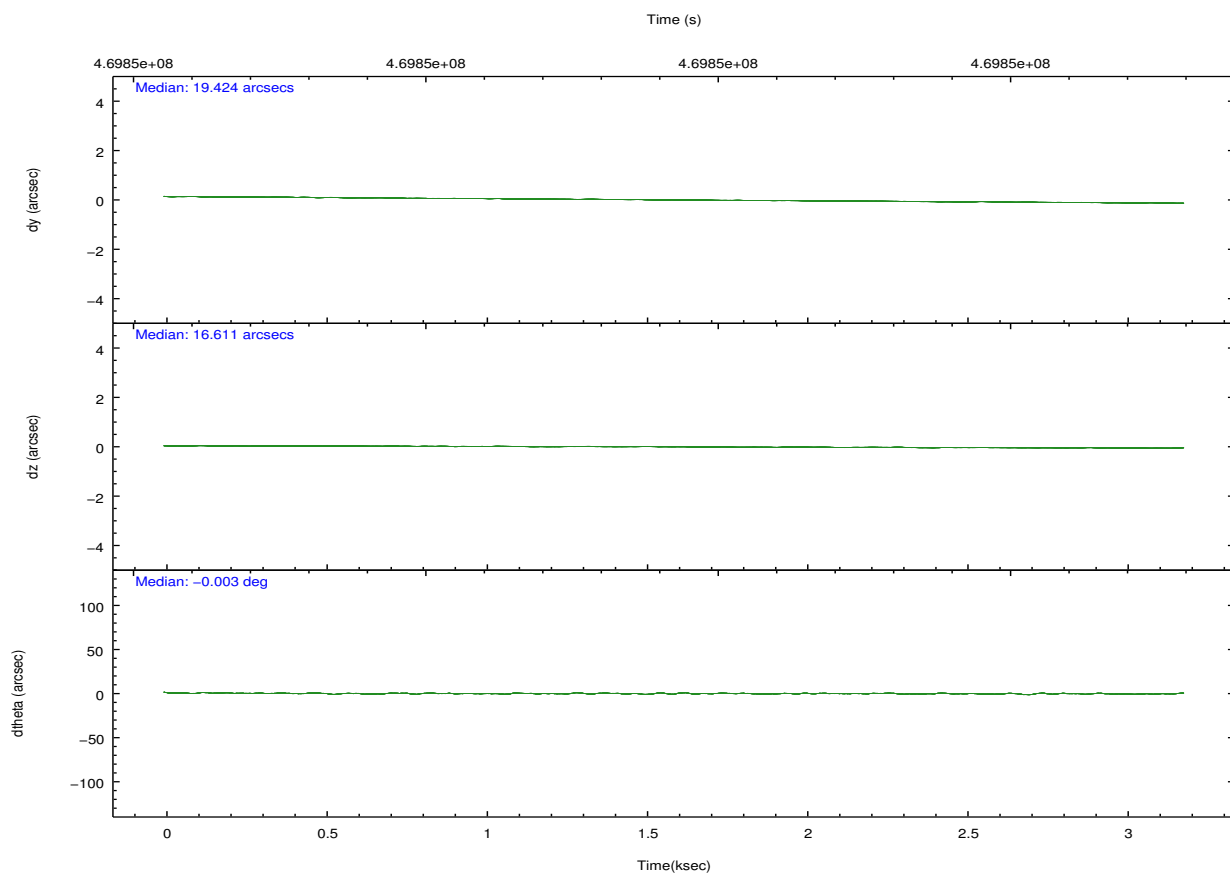
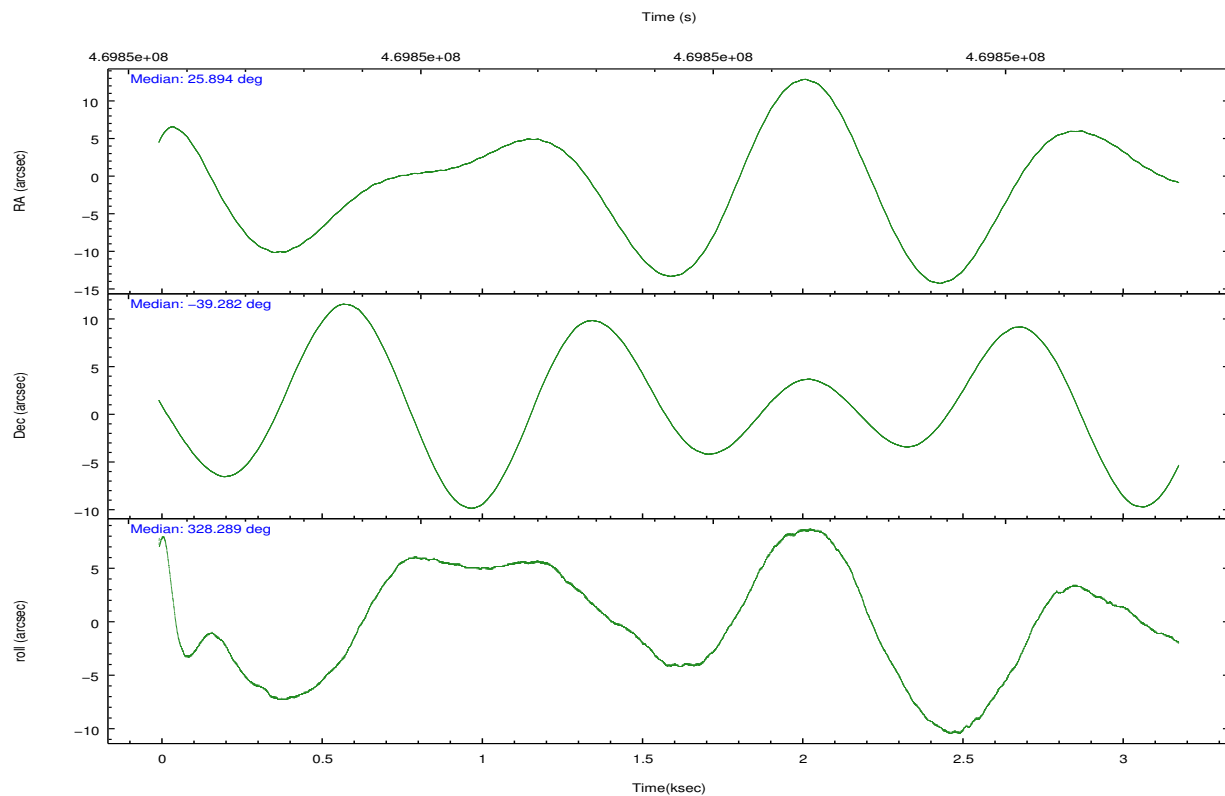
	ccd 6	ccd 7	ccd 8
grade 0 events	177	242	412
	3%	5%	6%
grade 1 events	3	9	3
	0%	0%	0%
grade 2 events	108	469	341
	2%	10%	5%
grade 3 events	75	264	202
	1%	5%	3%
grade 4 events	83	274	209
	1%	5%	3%
grade 5 events	160	497	254
	3%	10%	4%
grade 6 events	90	1077	386
	1%	23%	6%
grade 7 events	4136	1786	4375
	85%	38%	70%

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	25.858622	25.8939789291653	Subarray requested	CUSTOM	1/4
[deg] Pointing Dec	-39.281599	-39.28217477856175	Subarray start row	385	385
[deg] Pointing Roll	328.120477	328.2995412053608	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	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	469847438.184000	469846411.11326			
Observation start date	2012-11-21T01:09:31	2012-11-21T00:53:31			
[s] Observation end time (MET)	469850438.184000	469851102.53851			
Observation end date	2012-11-21T01:59:31	2012-11-21T02:11:42			
Read mode	TIMED	TIMED			

2.3 Aspect



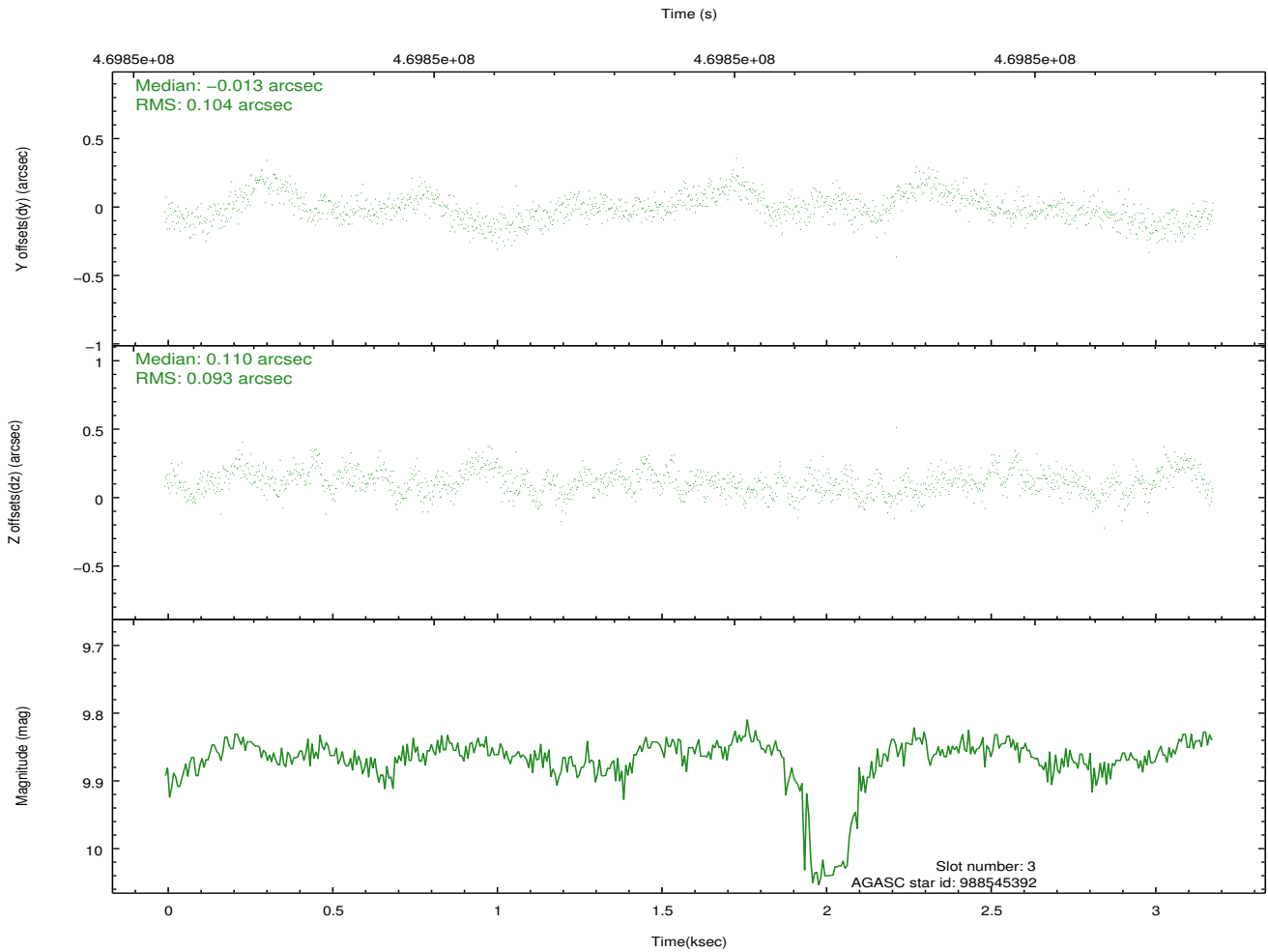
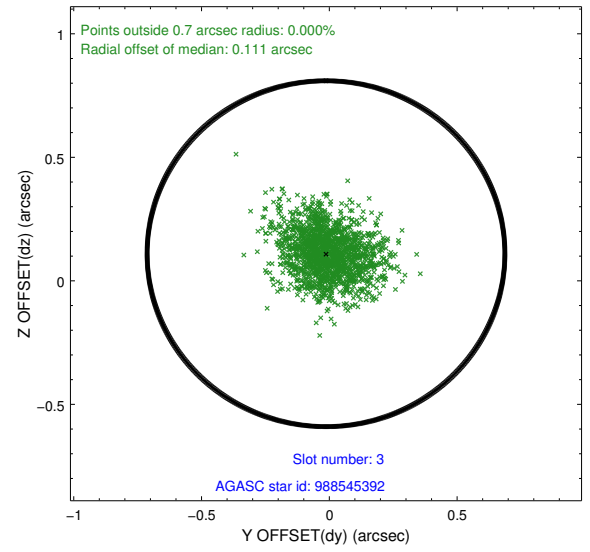
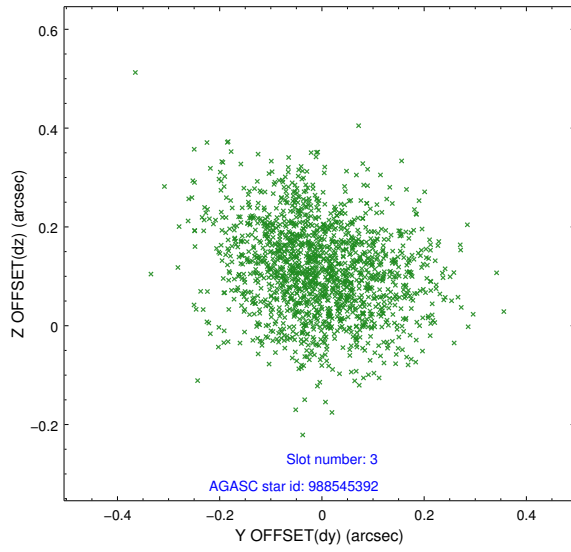


Slot Statistics

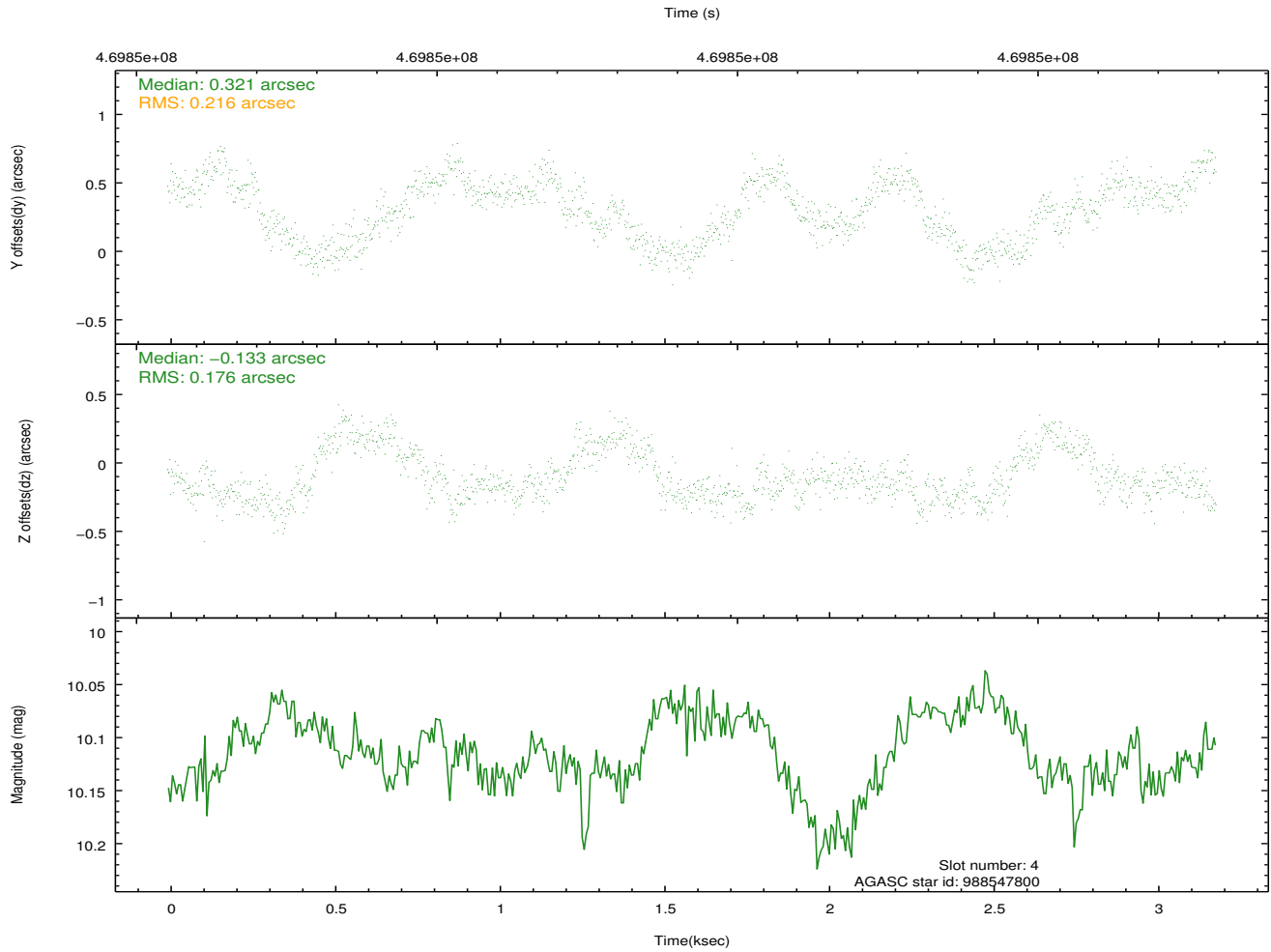
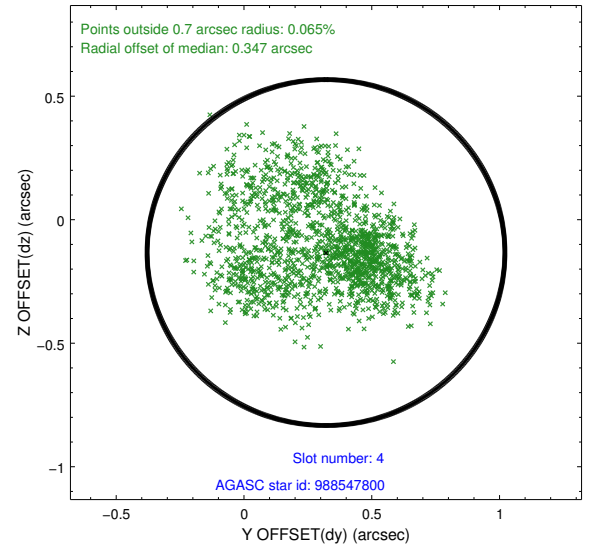
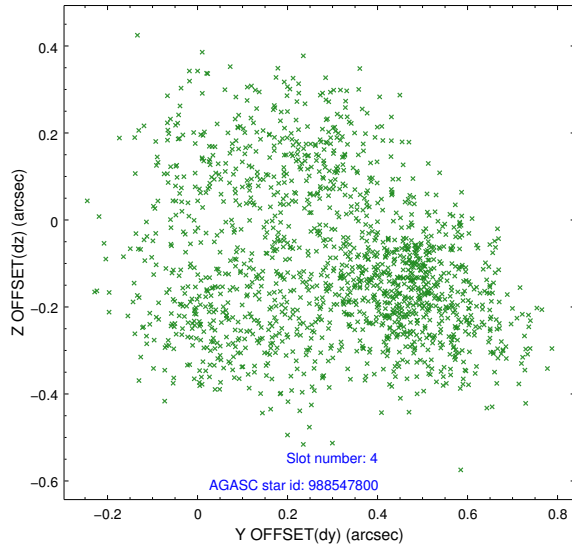
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.01	777	-0.119	-0.015	0.006	0.010	0.000000	0.000000	-772.66	-1737.98
1	FID		ACIS-S-4	7.09	777	0.278	0.062	0.006	0.011	0.000000	0.000000	2140.12	168.47
2	FID		ACIS-S-5	7.12	777	-0.190	-0.038	0.006	0.010	0.000000	0.000000	-1822.99	164.37
3	GUIDE	used	988545392	9.86	1552	-0.013	0.110	0.147	0.244	25.513448	-38.740280	-1851.80	1141.32
4	GUIDE	used	988547800	10.12	1550	0.321	-0.133	0.309	0.457	26.095498	-39.961662	1847.81	-1733.05
5	GUIDE	used	988548384	8.11	1554	-0.289	0.228	0.089	0.141	25.509503	-39.147441	-1080.97	-106.84
6	GUIDE	used	988553136	9.45	1544	0.038	-0.068	0.203	0.322	25.950486	-38.729649	-831.38	1823.65
7	GUIDE	used	988553296	9.58	1549	-0.061	-0.160	0.160	0.251	26.172517	-38.707828	-342.82	2219.55

2.4 Star Slots

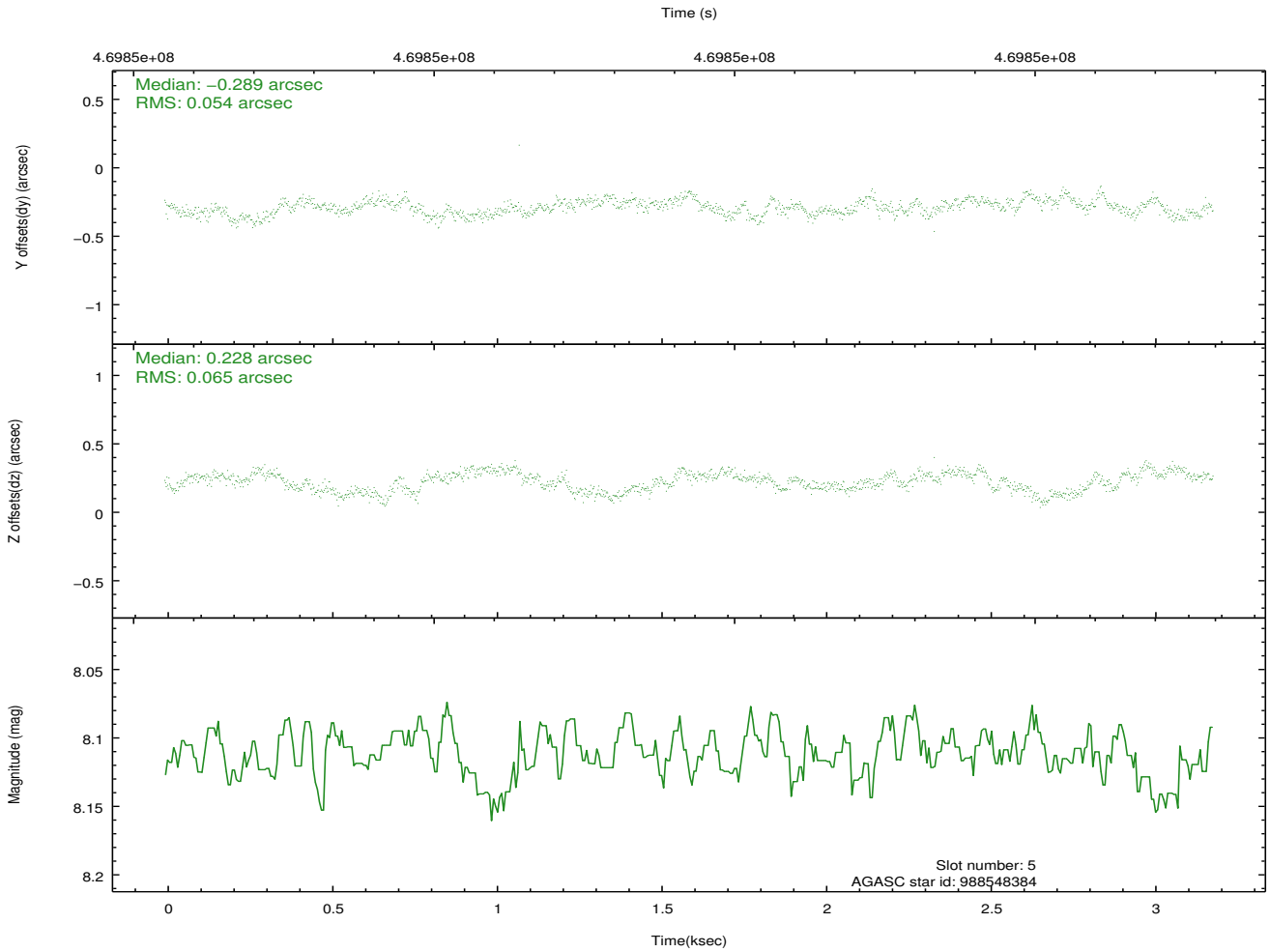
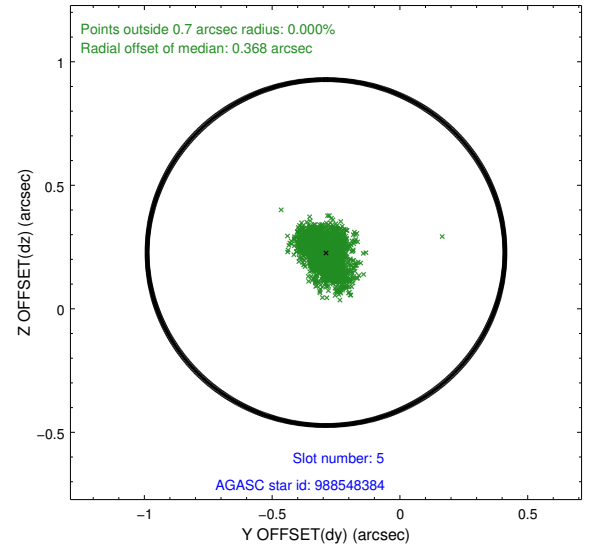
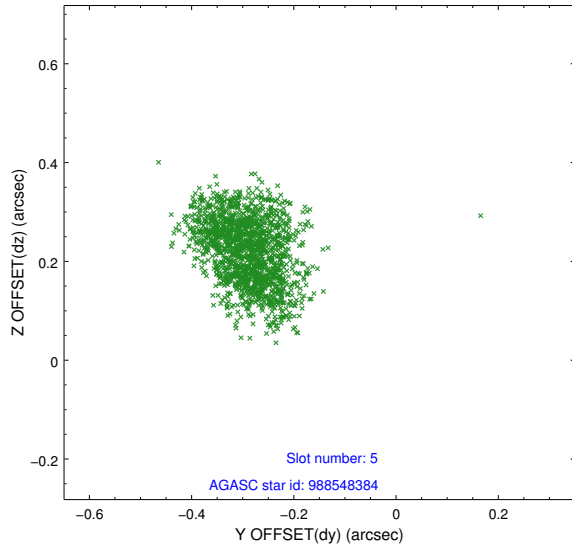
2.4.1 Slot 3



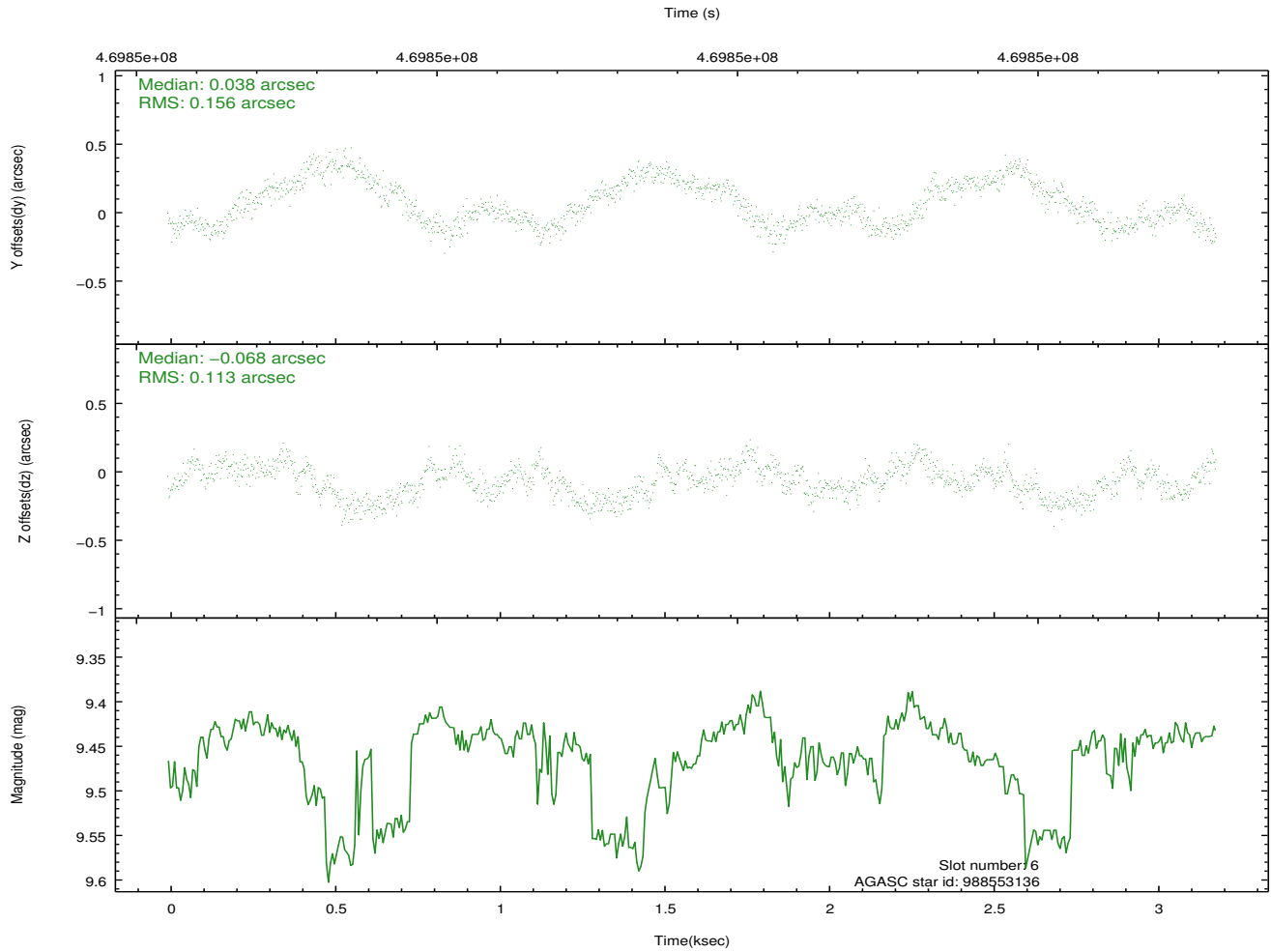
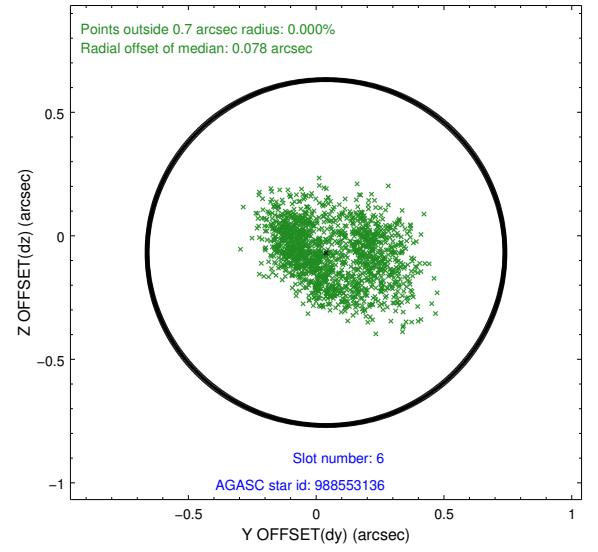
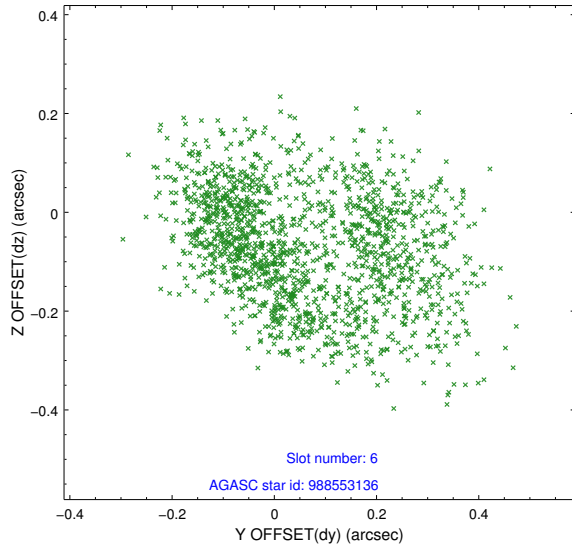
2.4.2 Slot 4



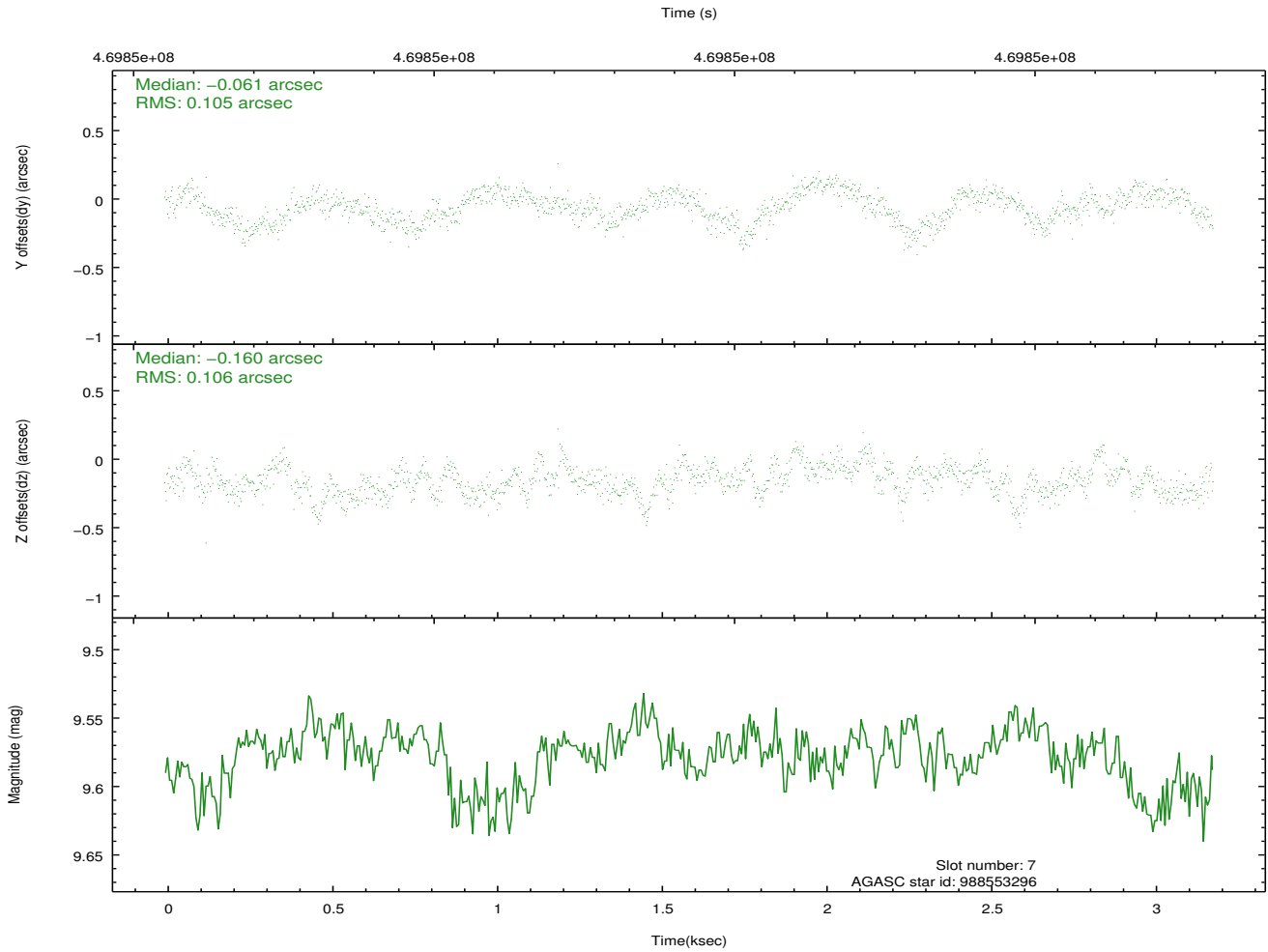
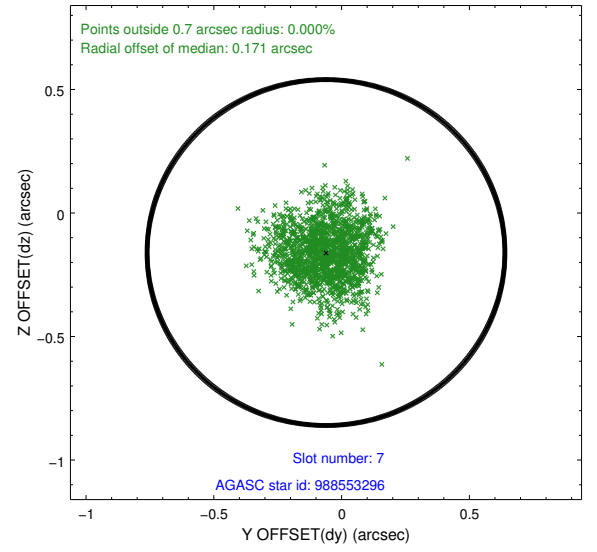
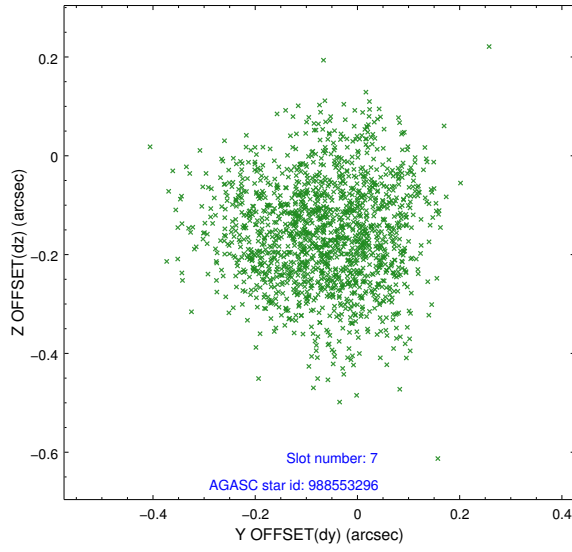
2.4.3 Slot 5



2.4.4 Slot 6

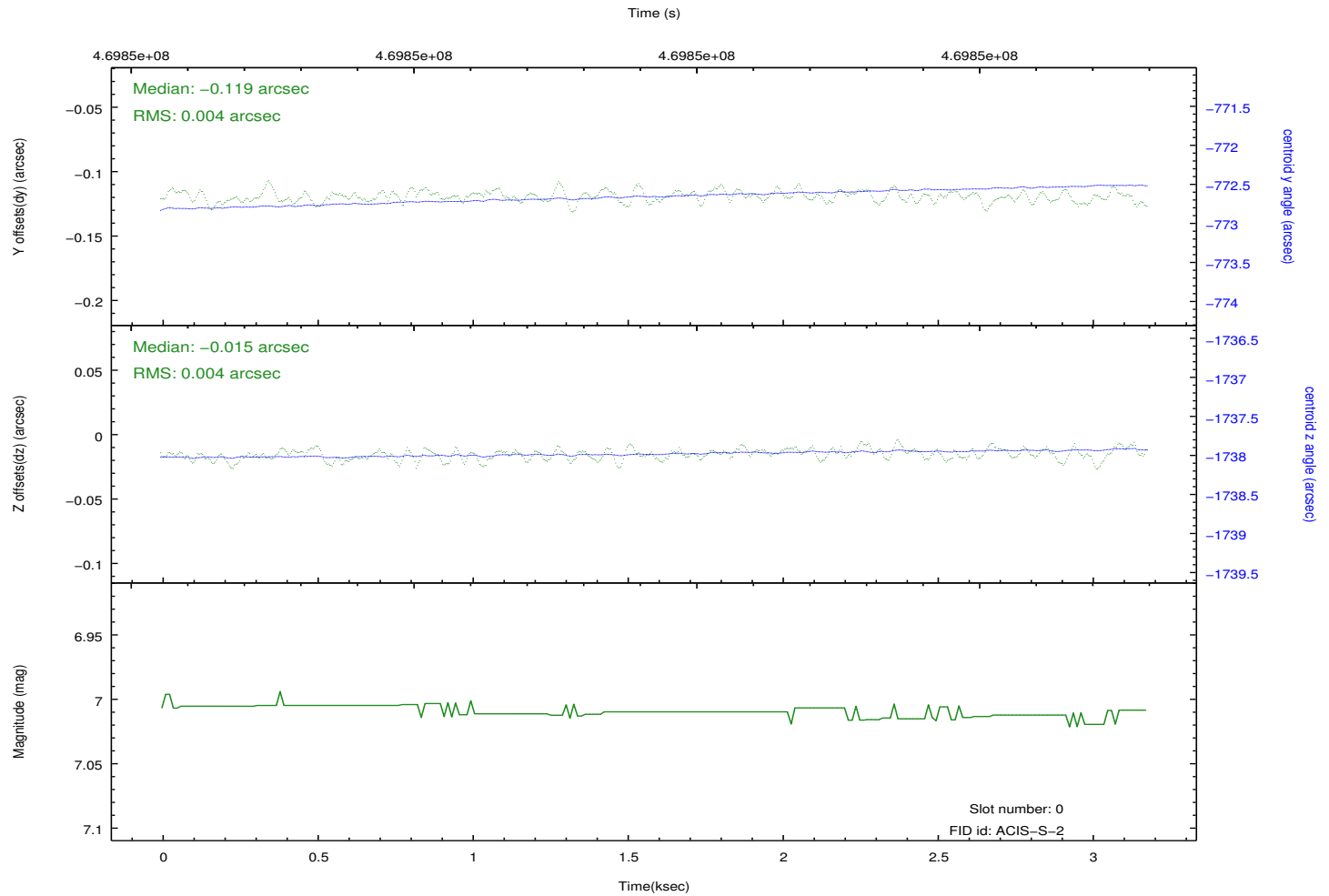
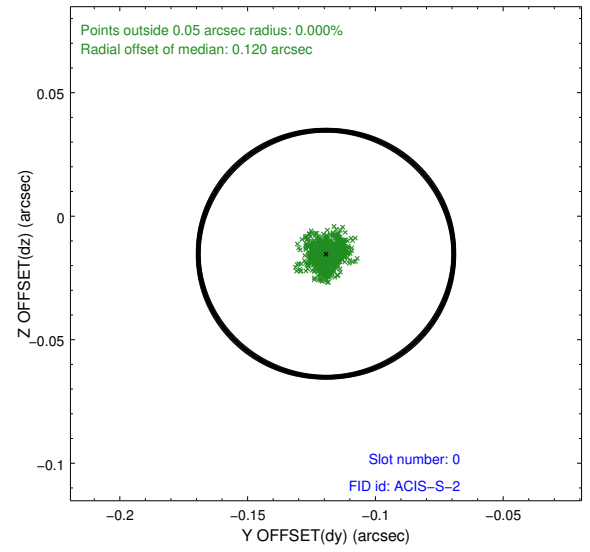
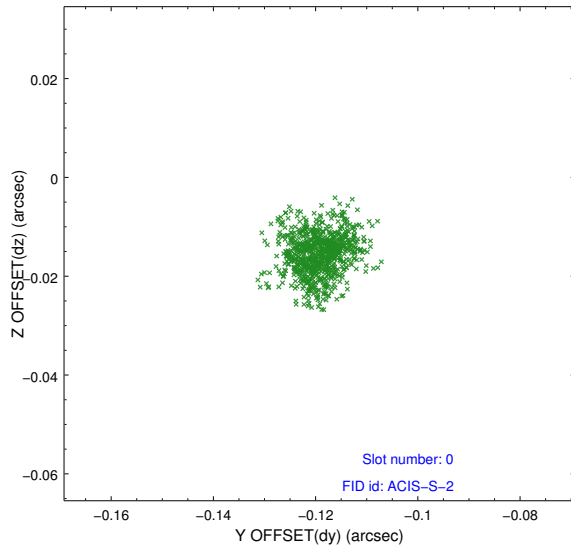


2.4.5 Slot 7

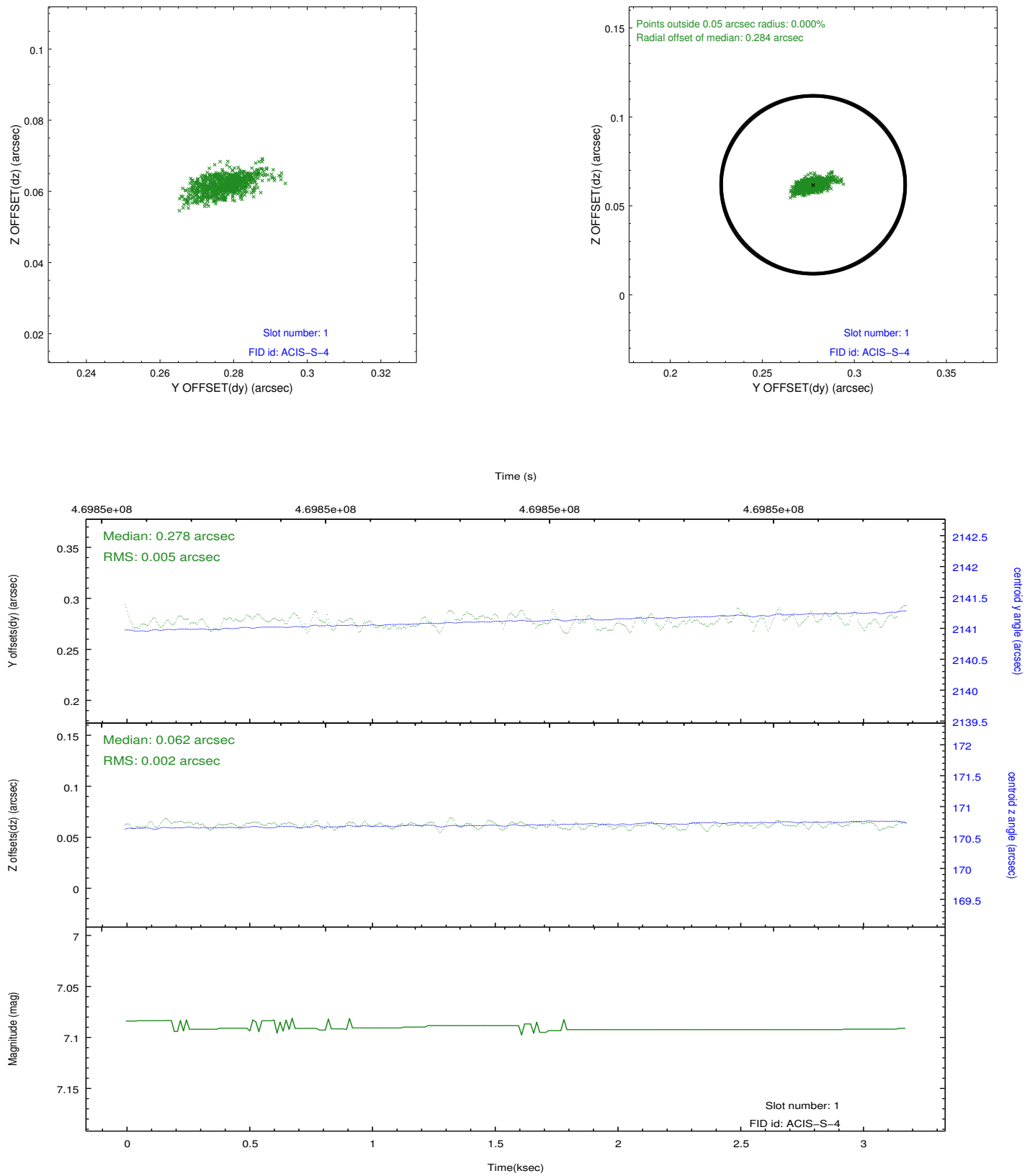


2.5 FID Slots

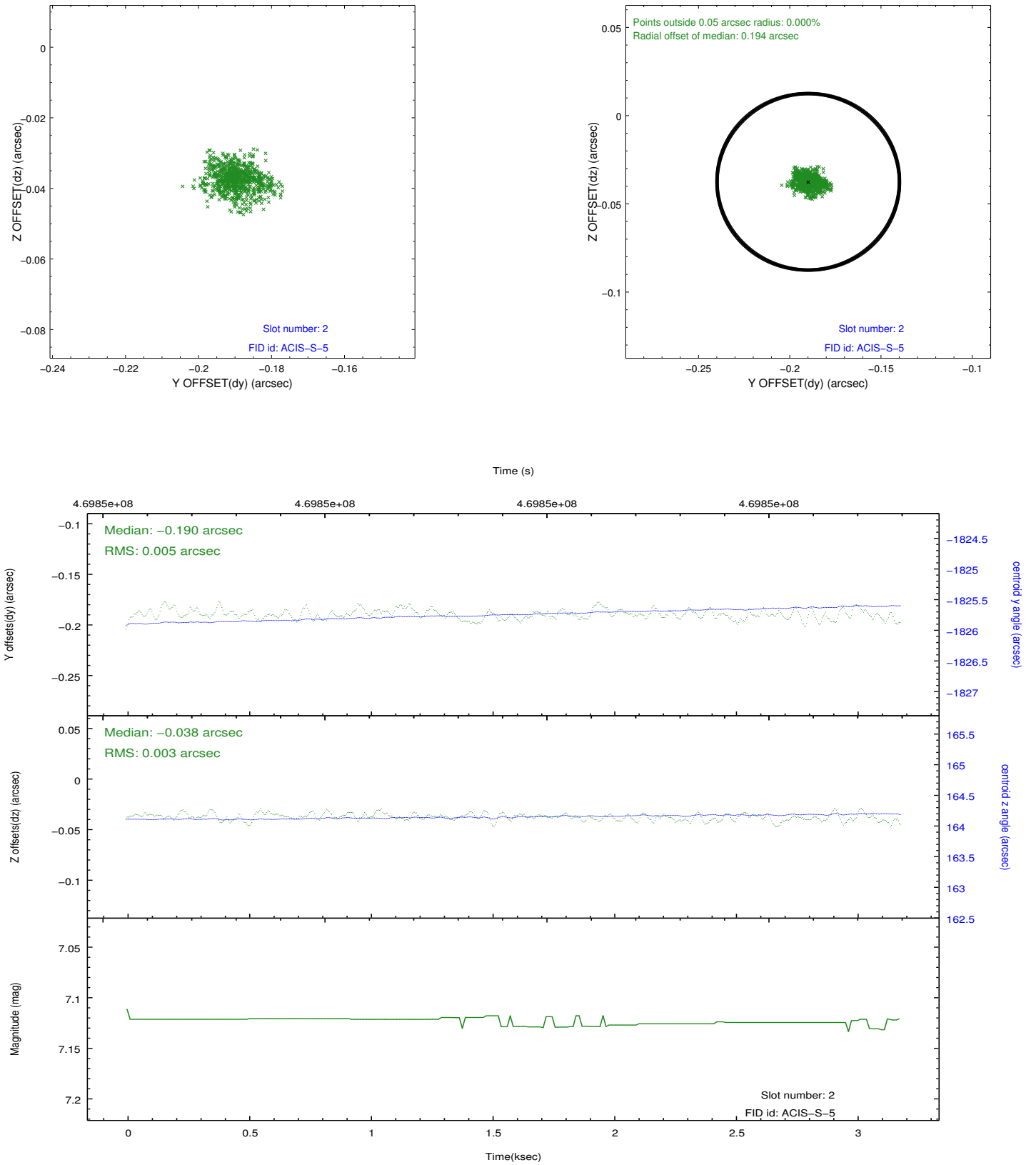
2.5.1 Slot 0



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	3.0940321166515

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.