

V&V Reference Report

L2 ASCDS Version : 10.2.2

Observation 15967 - L2 Version 2
Chandra X-Ray Center

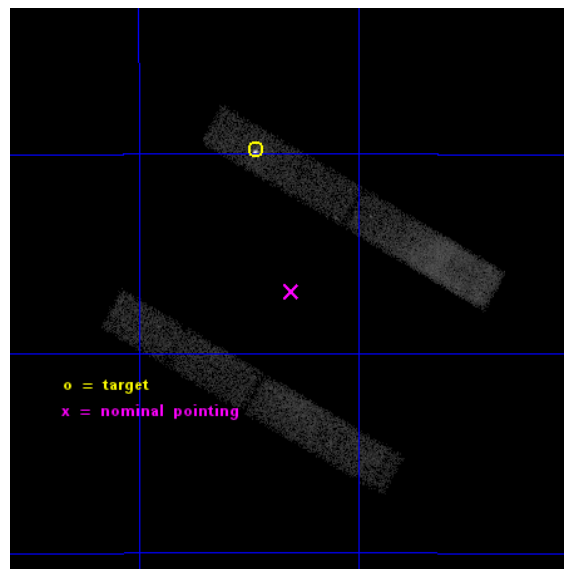
L2 Processing Date : Dec 12 2014

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1 Front

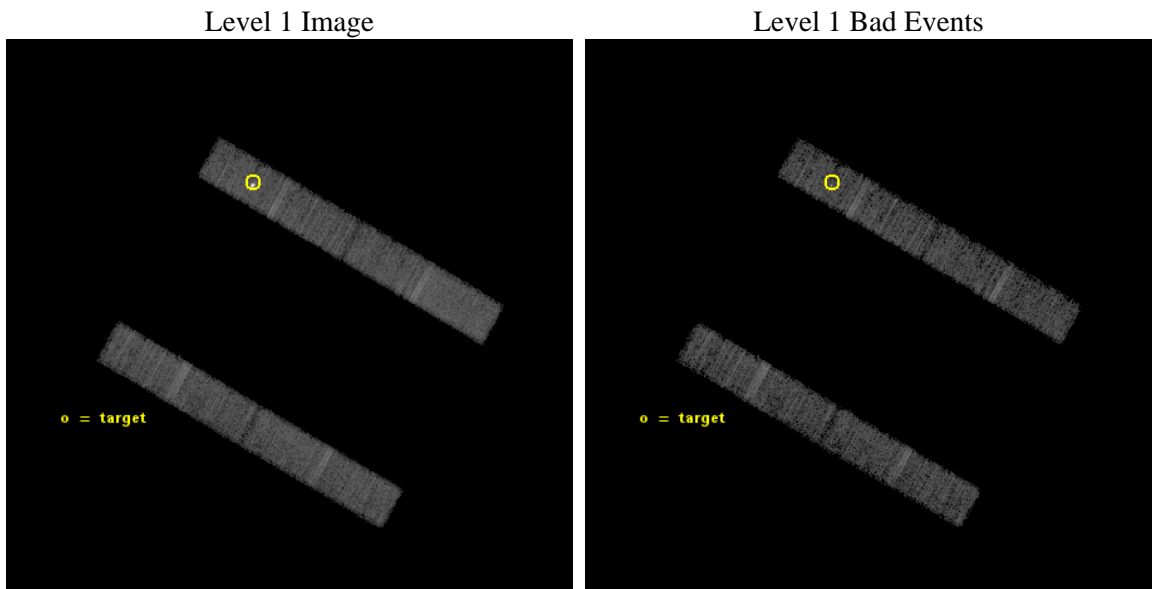
seq_num	502200	Sequence number
obs_id	15967	Observation id
title	Following the Temperature of a Neutron Star	Proposal title
observer	Patrick Slane	Principal investigator
object	1WGA J1713.4-3949	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	258.366667	Observer's specified target RA [deg]
dec_targ	-39.83	Observer's specified target Dec [deg]
ra_nom	258.32634641636	Nominal RA [deg]
dec_nom	-39.948209259263	Nominal Dec [deg]
roll_nom	299.65137227348	Nominal Roll [deg]
revision	2	Processing version of data
ontime	30088.799202919	Sum of GTIs [s]
livetime	28776.586842883	Livetime [s]
ontime0	30088.714797318	Sum of GTIs [s]
ontime1	30088.755837321	Sum of GTIs [s]
ontime2	30088.796877325	Sum of GTIs [s]
ontime3	30088.799202919	Sum of GTIs [s]
l2events	48660	Number of level 2 events



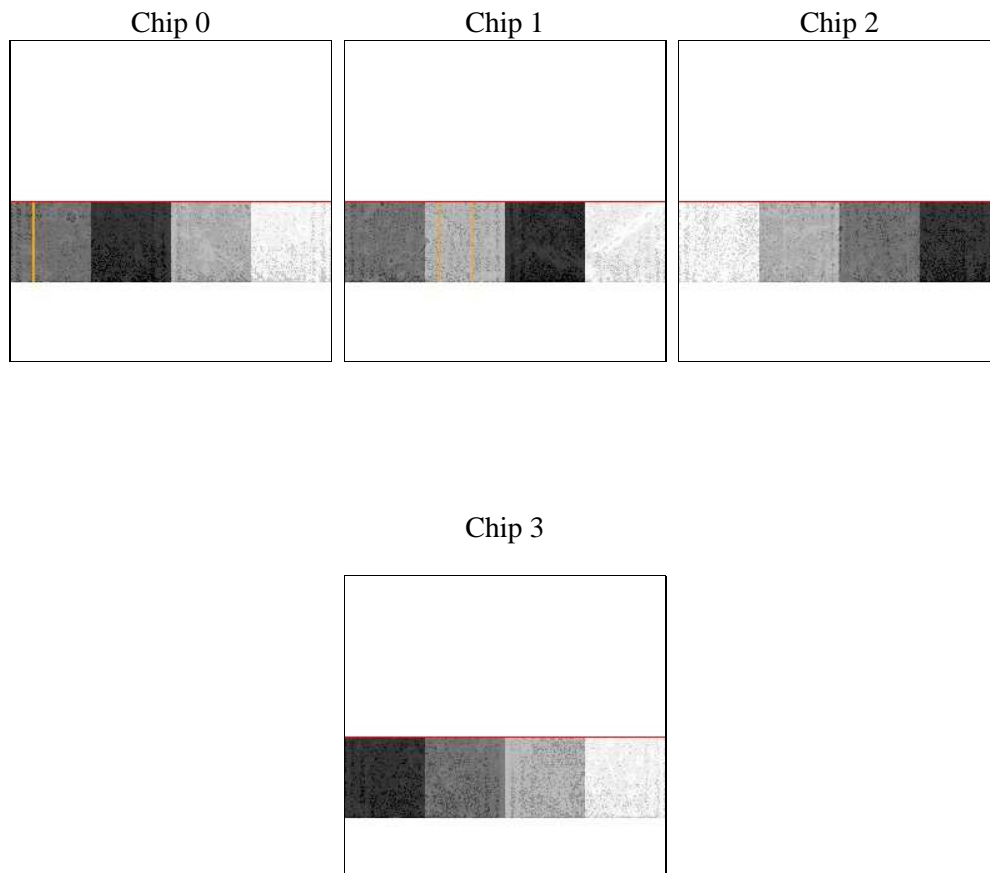
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	30000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	30088.799202919	Sum of GTIs [s]
caldsver	4.6.4	 	ontime0	30088.714797318	Sum of GTIs [s]
date	2014-12-12T20:29:31	Date and time of file creation	ontime1	30088.755837321	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	30088.796877325	Sum of GTIs [s]
			ontime3	30088.799202919	Sum of GTIs [s]
			l1events	190640	Number of level 1 events

2.1.4 Events

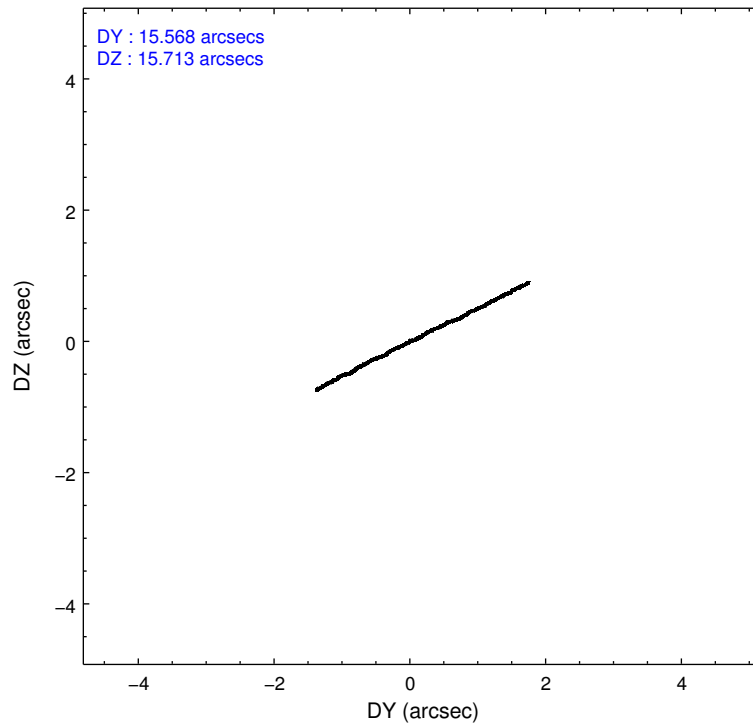
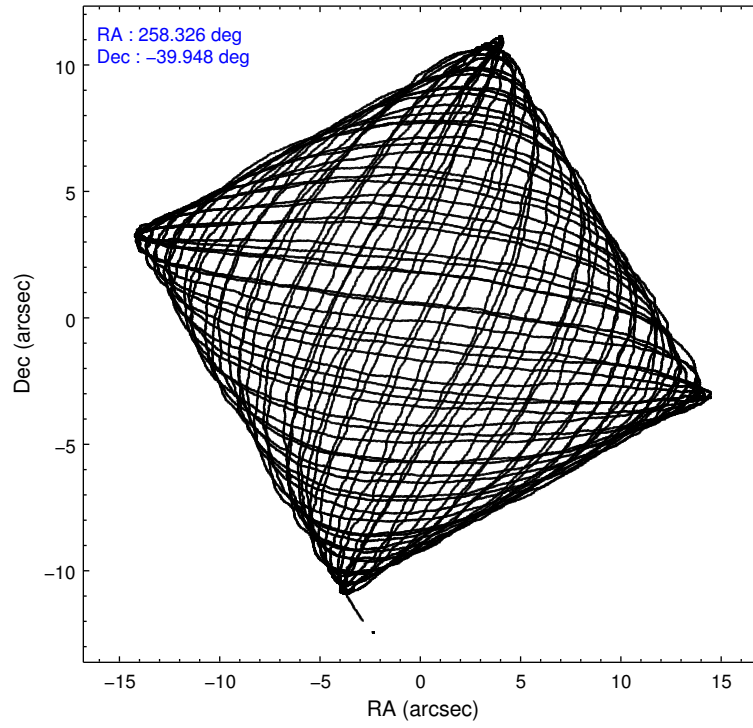
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	42517	49615	43290	55218
rejected events	32636	32272	35024	36233
rejected %	76%	65%	80%	65%

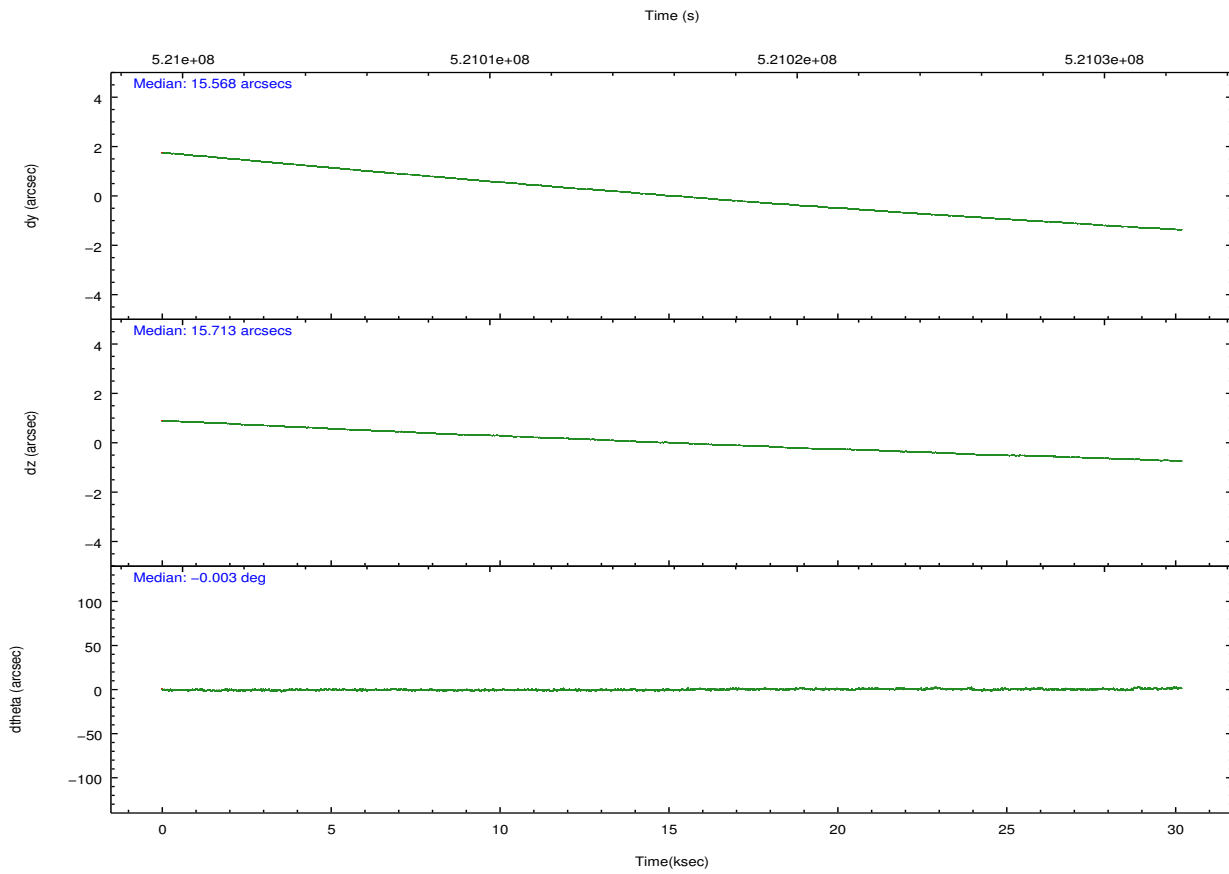
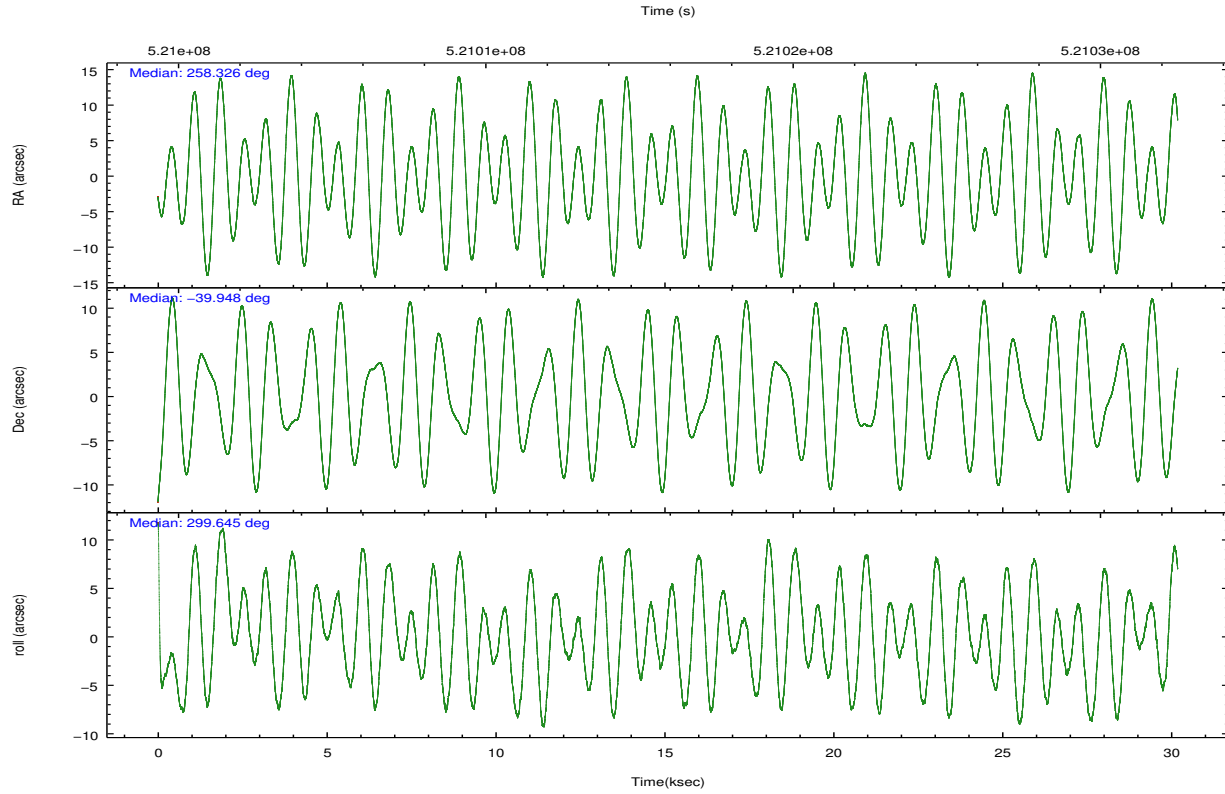
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	5428	11128	4301	13299
	12%	22%	9%	24%
grade 1 events	22	36	27	79
	0%	0%	0%	0%
grade 2 events	1615	2317	1388	2406
	3%	4%	3%	4%
grade 3 events	916	1217	835	1162
	2%	2%	1%	2%
grade 4 events	930	1240	825	1024
	2%	2%	1%	1%
grade 5 events	1350	1481	1311	1651
	3%	2%	3%	2%
grade 6 events	992	1441	918	1094
	2%	2%	2%	1%
grade 7 events	31264	30755	33685	34503
	73%	61%	77%	62%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-0123	ACIS-0123	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	258.295321	258.326346416356	Subarray requested	CUSTOM	1/4
[deg] Pointing Dec	-39.934396	-39.94820925926342	Subarray start row	256	256
[deg] Pointing Roll	299.422762	299.6513722734824	Subarray row count	256	256
[mm] SIM focus pos	-0.782348	-0.7809083437167272	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001439871863259334	[s] Primary exposure time	0.000000	0.9
[mm] SIM translation stage pos	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	521001010.184000	521000185.36812			
Observation start date	2014-07-06T02:29:03	2014-07-06T02:16:25			
[s] Observation end time (MET)	521031010.184000	521031634.41986			
Observation end date	2014-07-06T10:49:03	2014-07-06T11:00:34			
Read mode	TIMED	TIMED			

2.3 Aspect





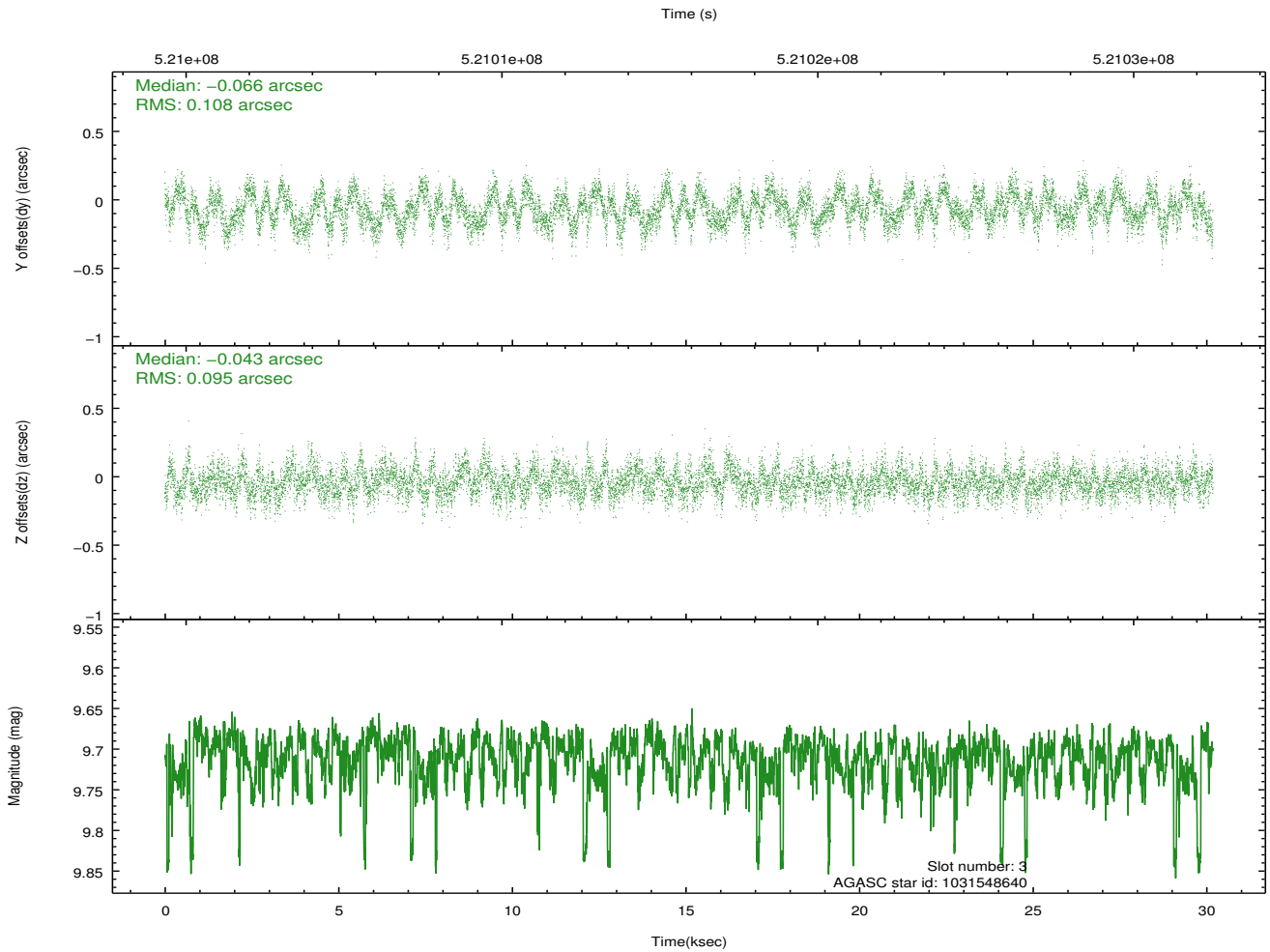
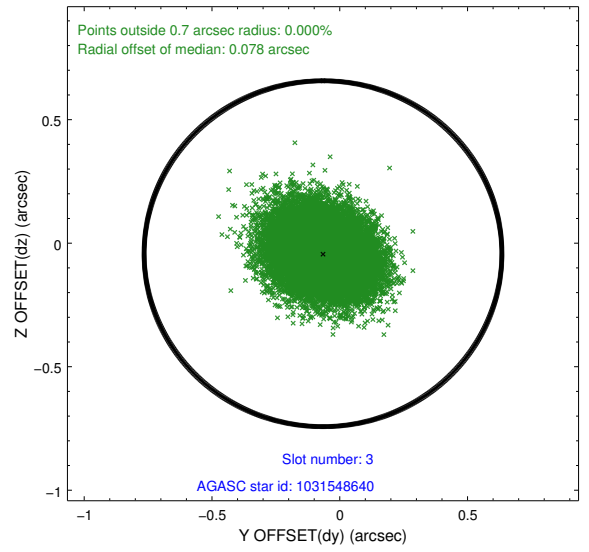
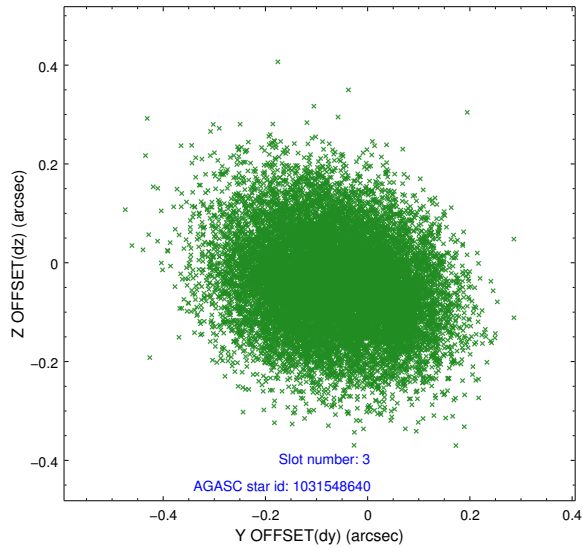
Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.17	7364	-0.011	-0.060	0.036	0.049	0.000000	0.000000	923.81	-839.40
1	FID		ACIS-I-4	7.08	7363	0.208	0.069	0.029	0.070	0.000000	0.000000	2144.09	1060.52
2	FID		ACIS-I-5	7.16	7364	-0.295	0.062	0.020	0.051	0.000000	0.000000	-1824.42	1058.39
3	GUIDE	used	1031548640	9.71	14707	-0.066	-0.043	0.155	0.243	258.708500	-39.240425	-1607.67	2229.09
4	GUIDE	used	1031931920	9.33	14716	0.175	0.335	0.145	0.231	257.217218	-39.776204	-1945.18	-2326.75
5	GUIDE	used	1032062224	8.09	14669	-0.127	-0.138	0.077	0.122	258.732987	-40.317739	1795.18	366.65
6	GUIDE	used	1032063080	8.94	14723	0.061	0.032	0.161	0.288	258.212481	-40.638668	2097.88	-1442.25
7	GUIDE	used	1032064704	8.53	14720	-0.028	-0.195	0.070	0.113	258.960381	-39.623855	-61.70	2152.00

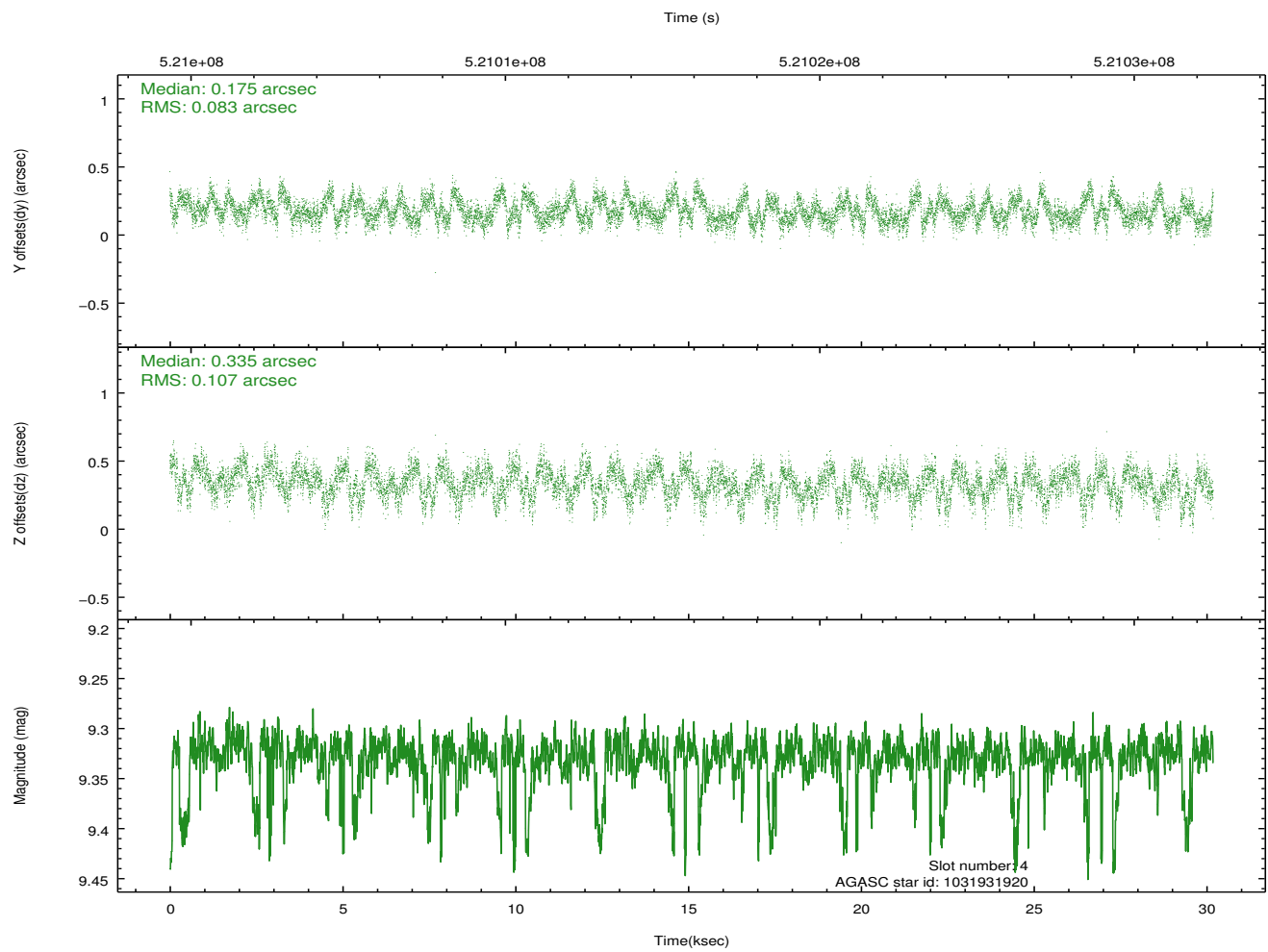
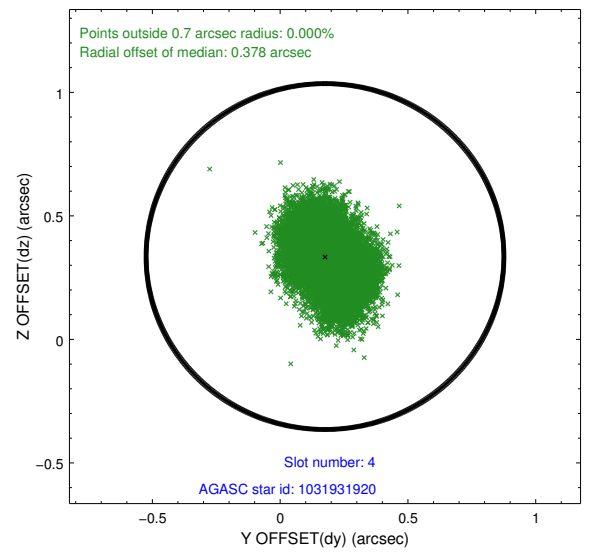
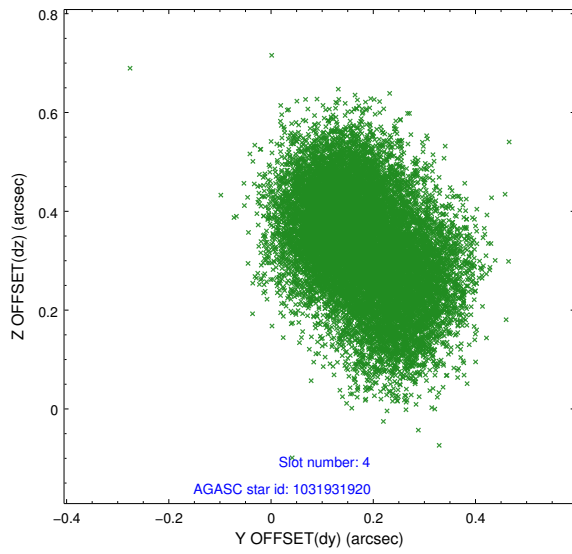
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2.4 Star Slots

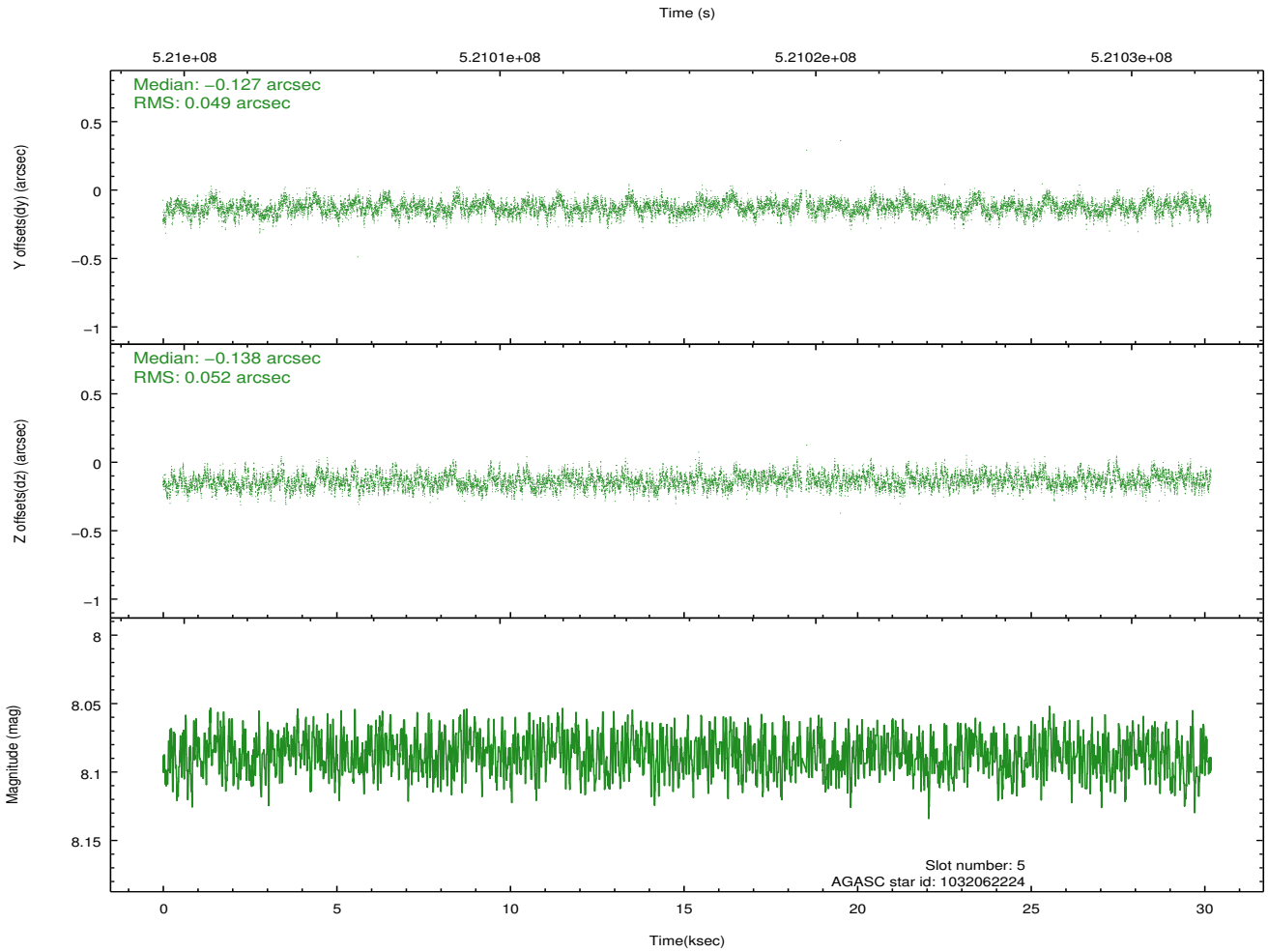
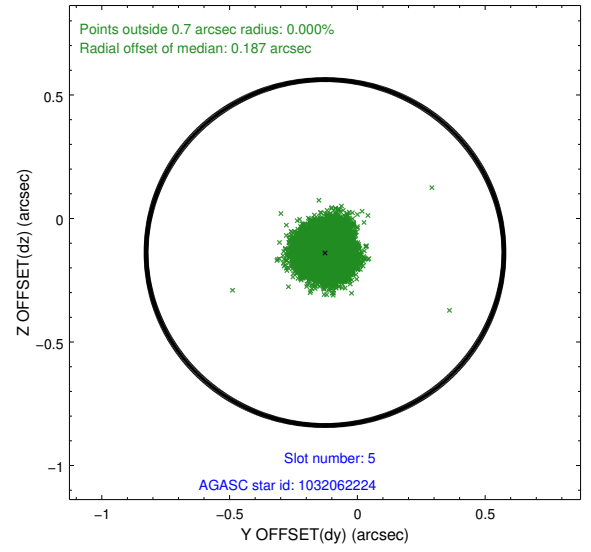
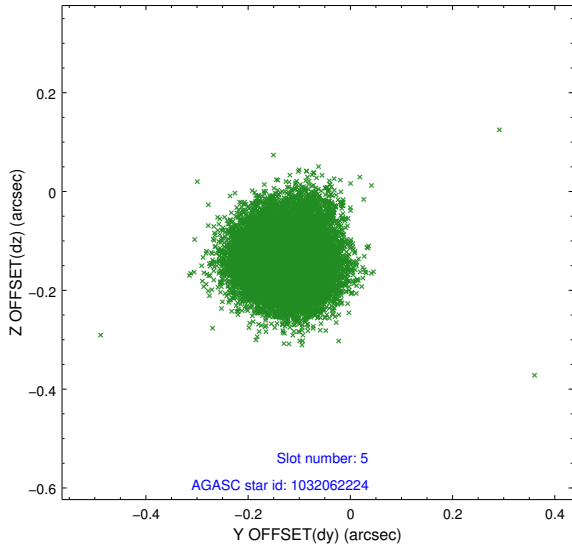
2.4.1 Slot 3



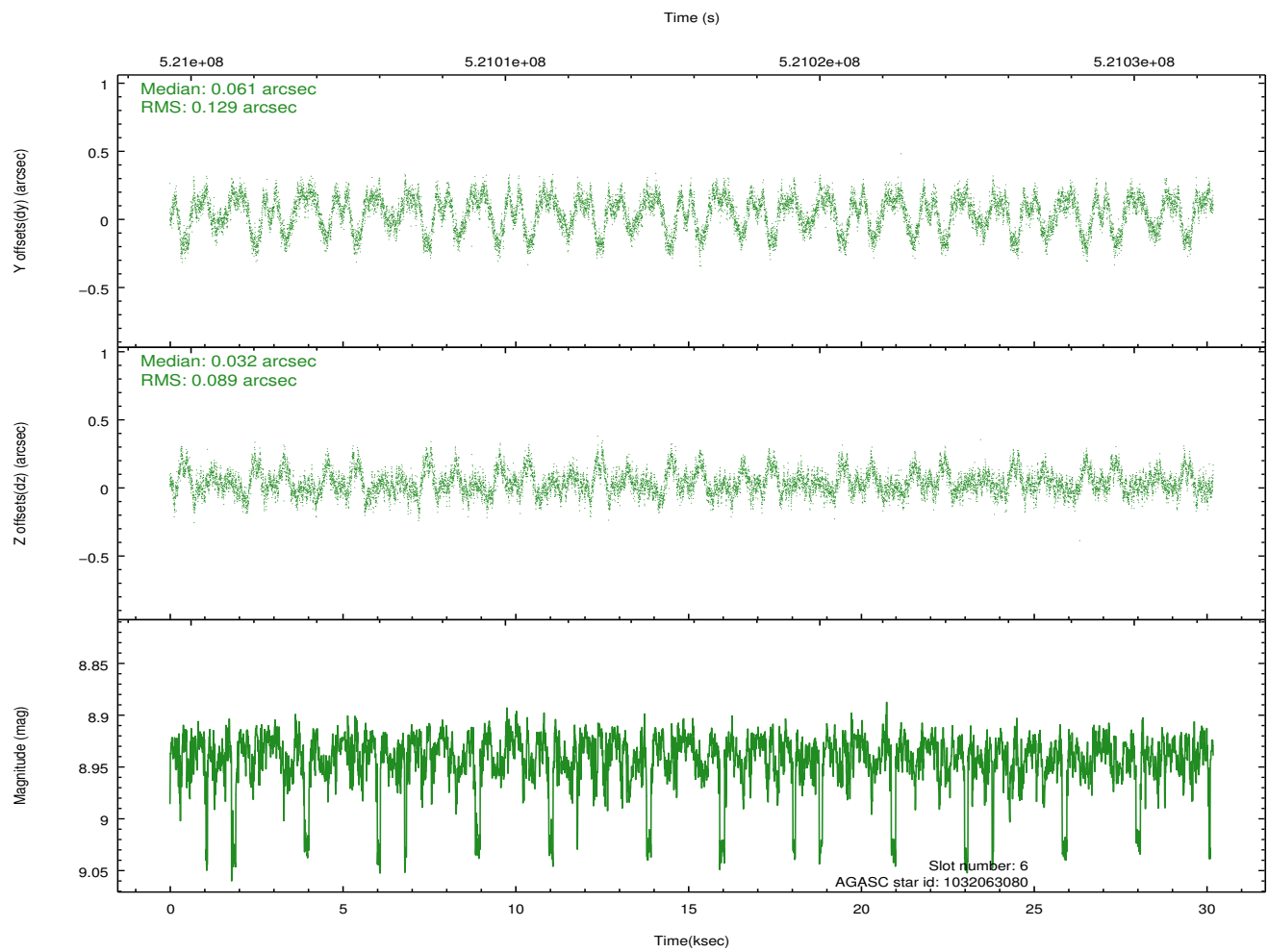
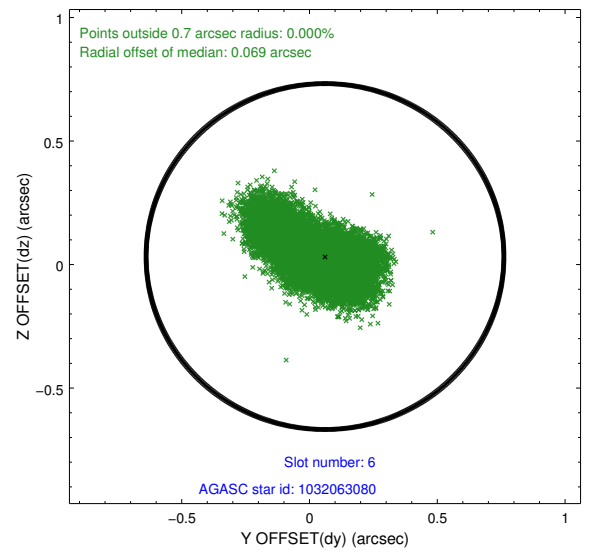
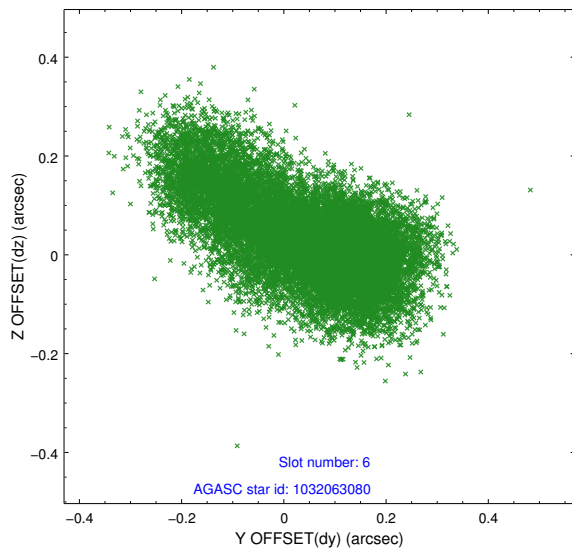
2.4.2 Slot 4



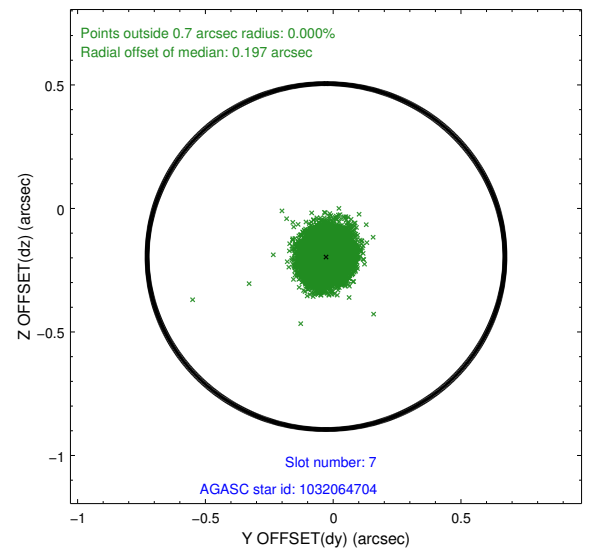
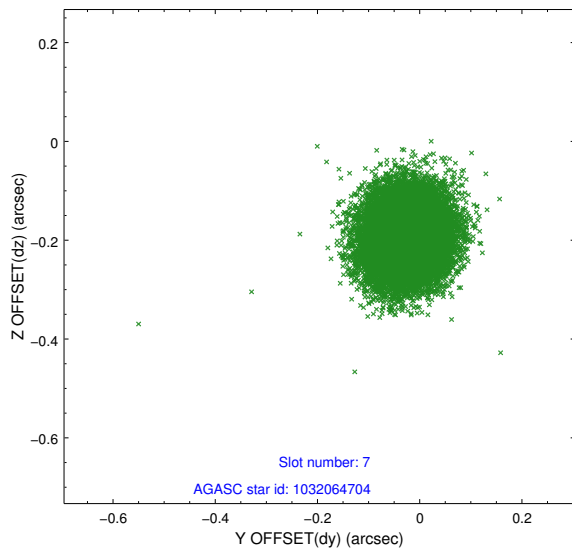
2.4.3 Slot 5



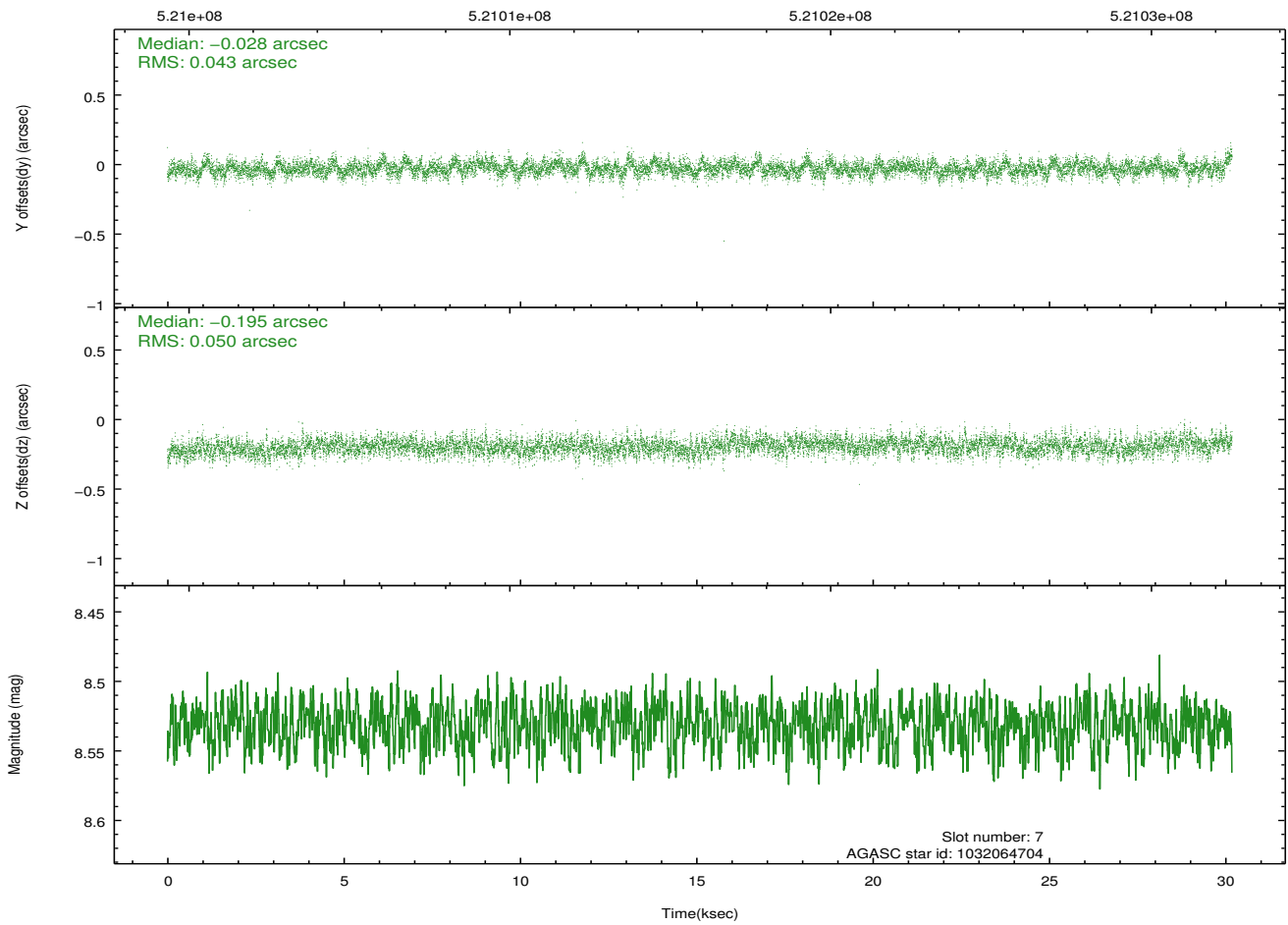
2.4.4 Slot 6



2.4.5 Slot 7

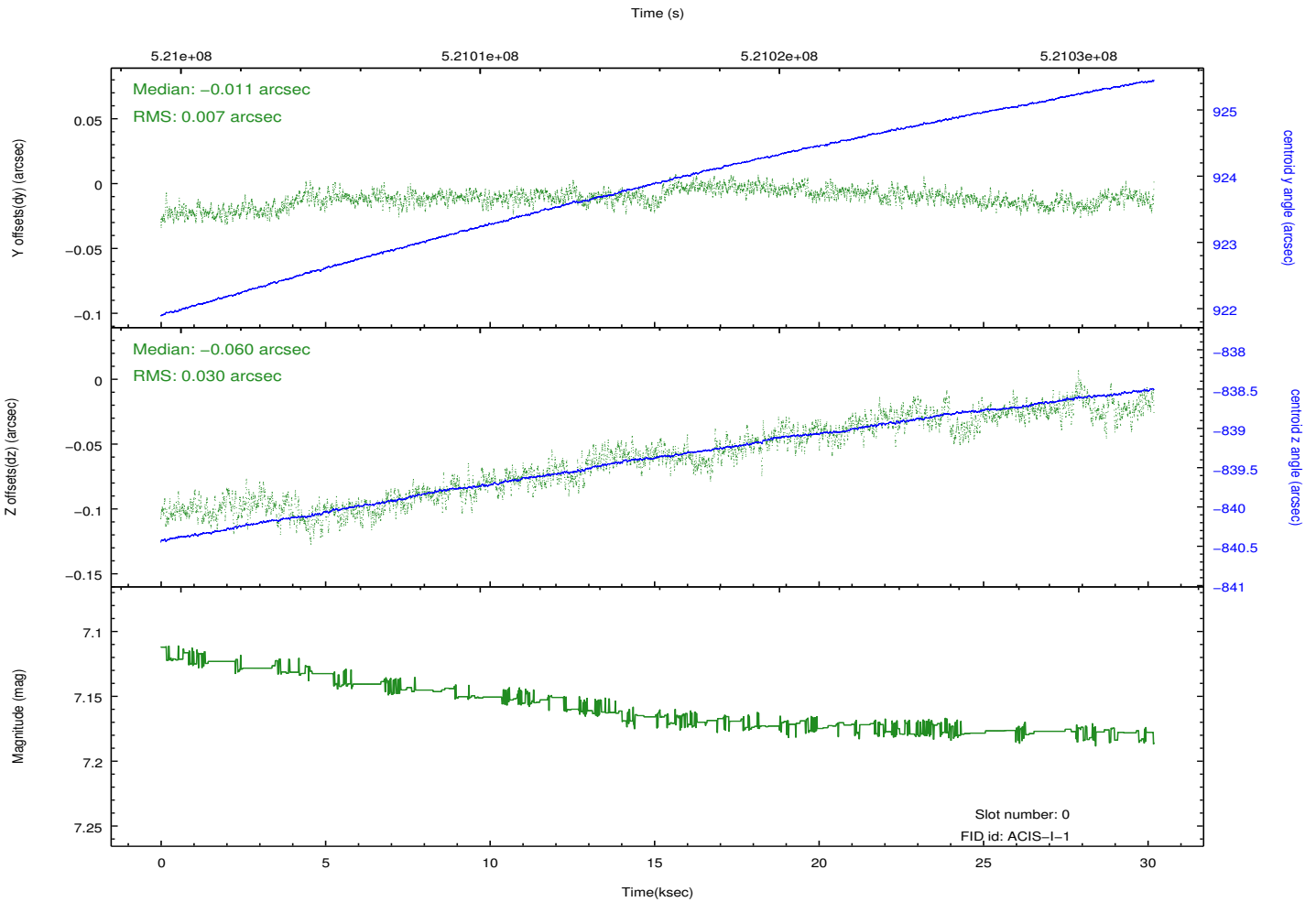
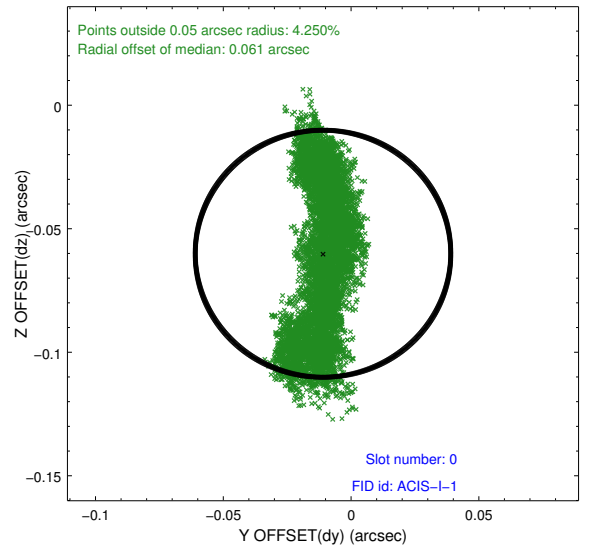
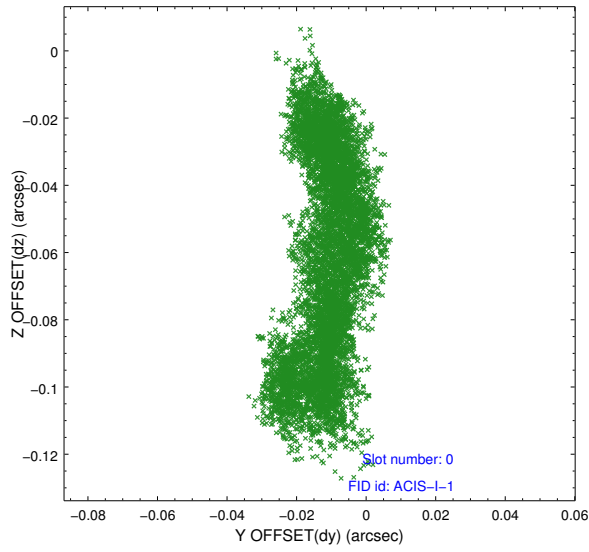


Time (s)

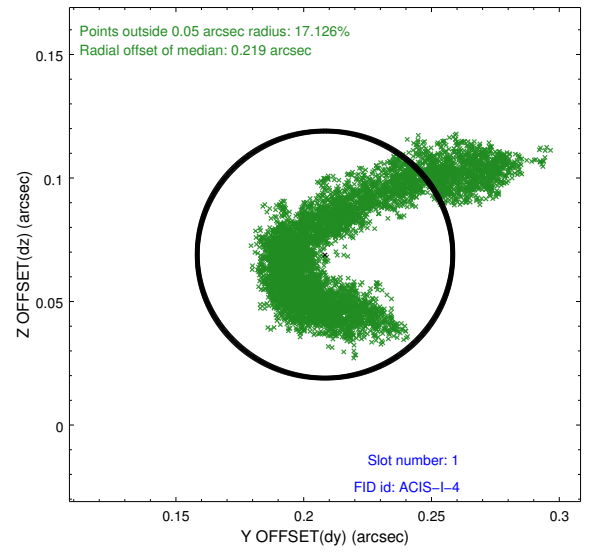
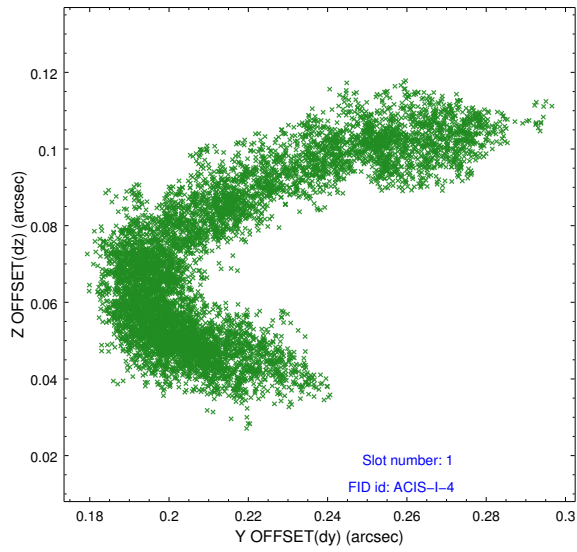


2.5 FID Slots

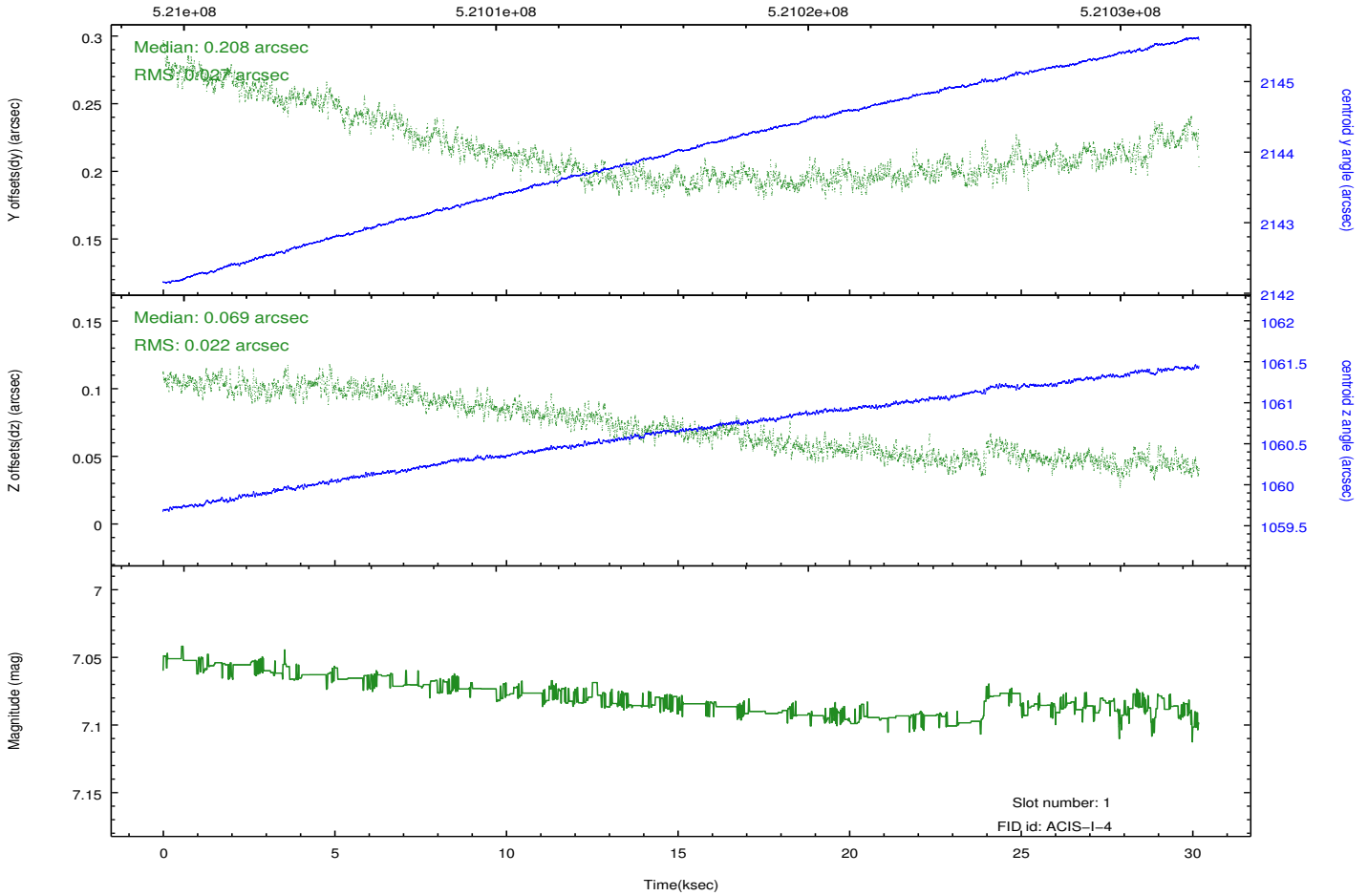
2.5.1 Slot 0



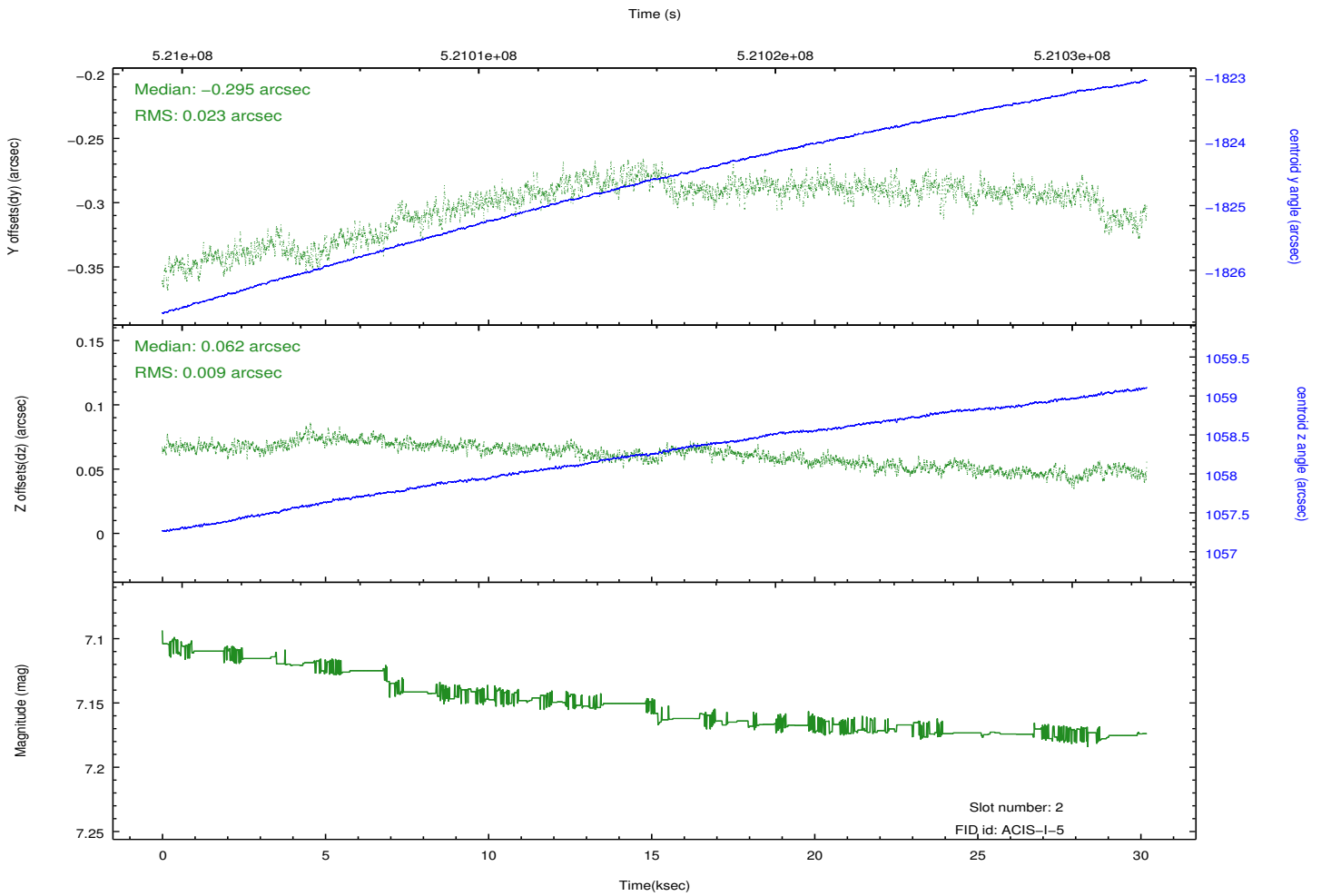
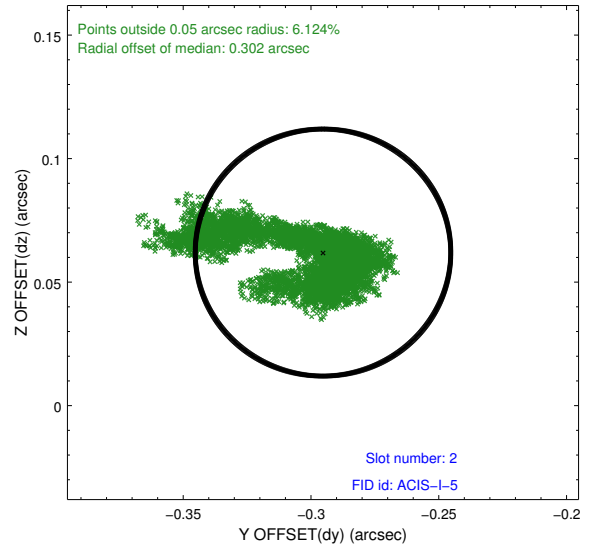
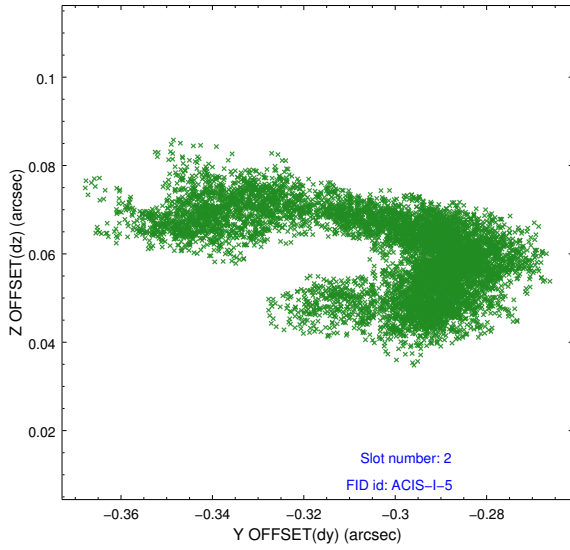
2.5.2 Slot 1



Time (s)



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2014.12.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	30.088799202919

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.