

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 13902 - L2 Version 2
Chandra X-Ray Center

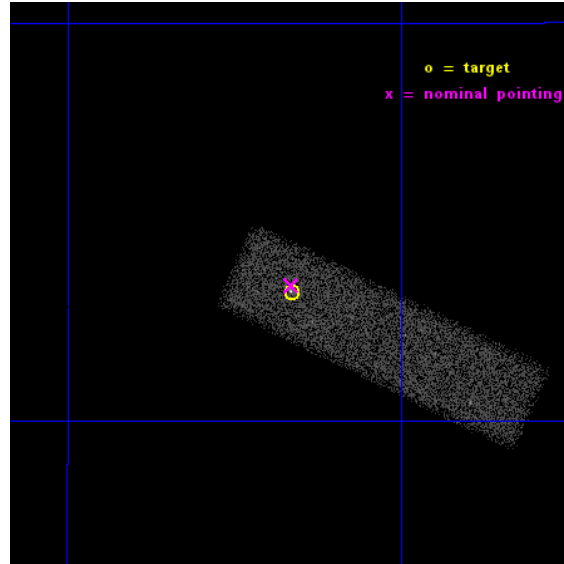
L2 Processing Date : Nov 27 2014

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1 Front

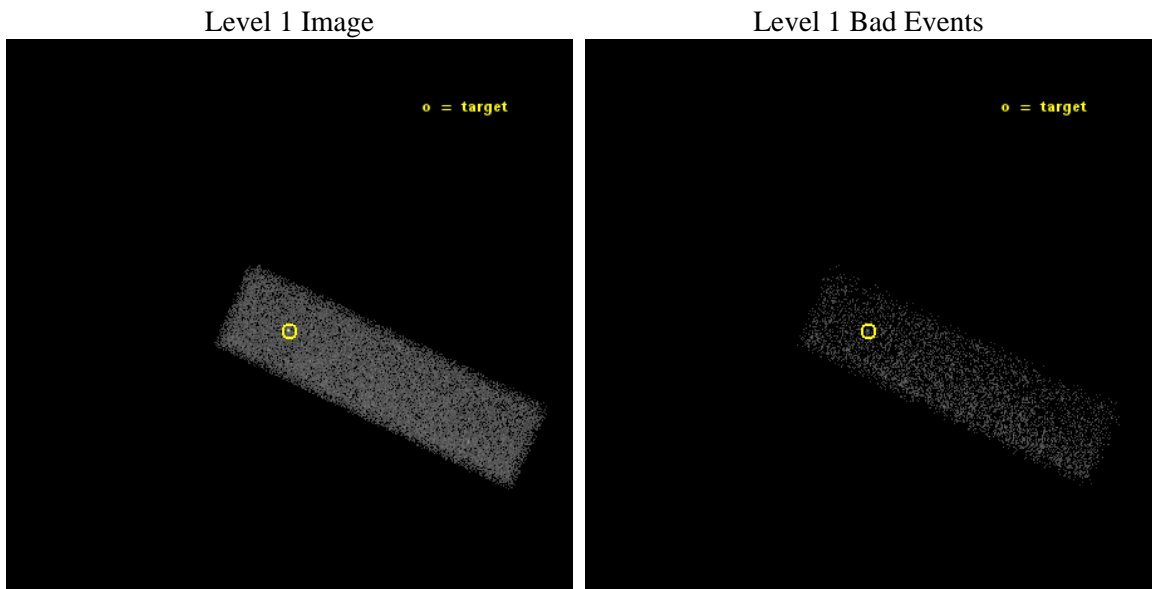
seq_num	702627	Sequence number
obs_id	13902	Observation id
title	CHANDRA SURVEY OF DUAL ACTIVATION IN HARD X-RAY SELECTED MERGING AGN HOSTS	Proposal title
observer	Dr. Richard Mushotzky	Principal investigator
object	MCG +09-19-015	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	168.831667	Observer's specified target RA [deg]
dec_targ	54.387222	Observer's specified target Dec [deg]
ra_nom	168.83232608753	Nominal RA [deg]
dec_nom	54.390212315985	Nominal Dec [deg]
roll_nom	25.112381775209	Nominal Roll [deg]
revision	2	Processing version of data
ontime	20060.800298989	Sum of GTIs [s]
livetime	19081.89888613	Livetime [s]
ontime7	20060.800298989	Sum of GTIs [s]
l2events	19398	Number of level 2 events



2 OBI

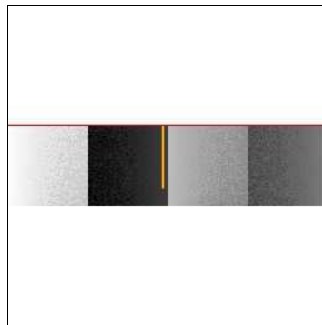
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	20000.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	20060.800298989	Sum of GTIs [s]
caldsver	4.6.4	 	ontime7	20060.800298989	Sum of GTIs [s]
date	2014-11-27T22:56:29	Date and time of file creation	l1events	38724	Number of level 1 events
revision	2	Processing version of data			

2.1.4 Events

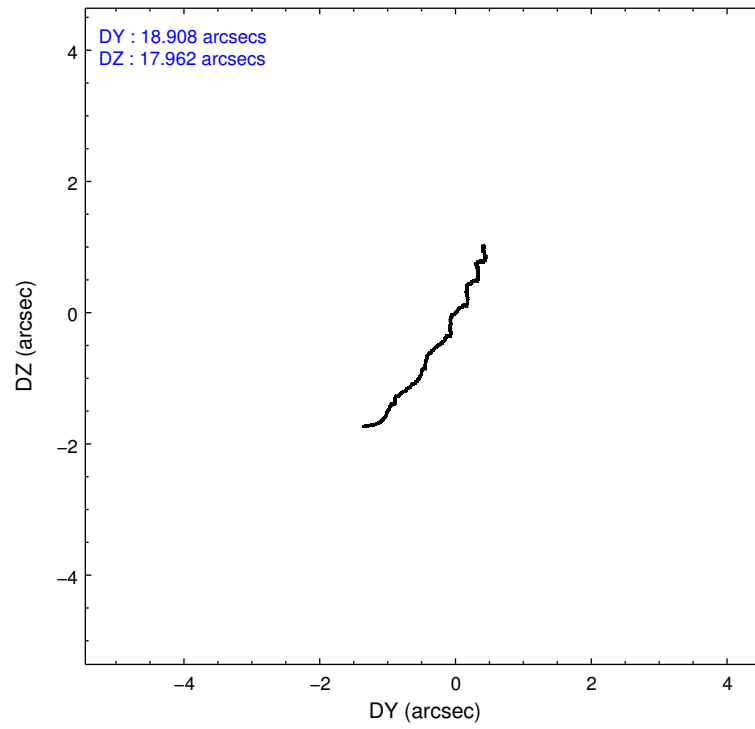
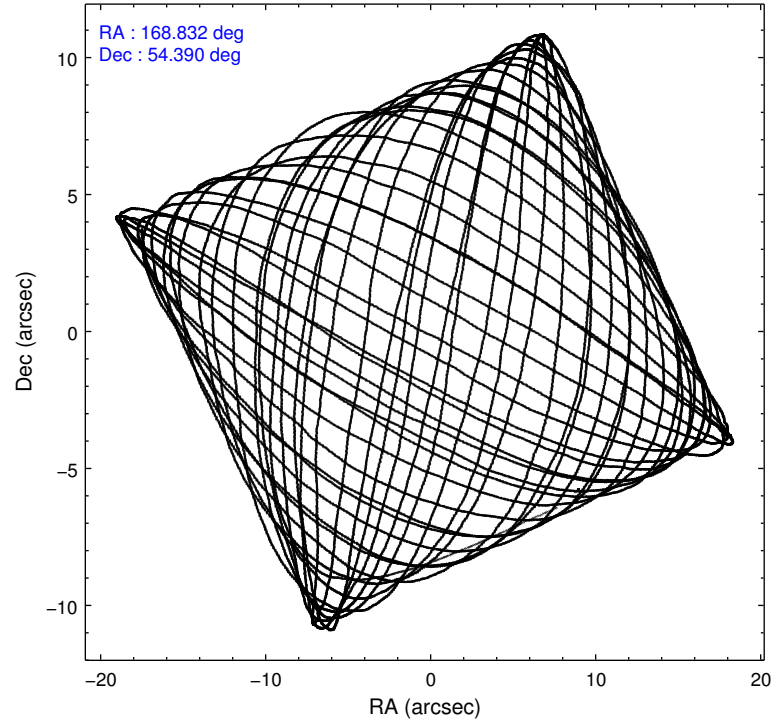
	ccd 7
level 1 events	38724
rejected events	18751
rejected %	48%

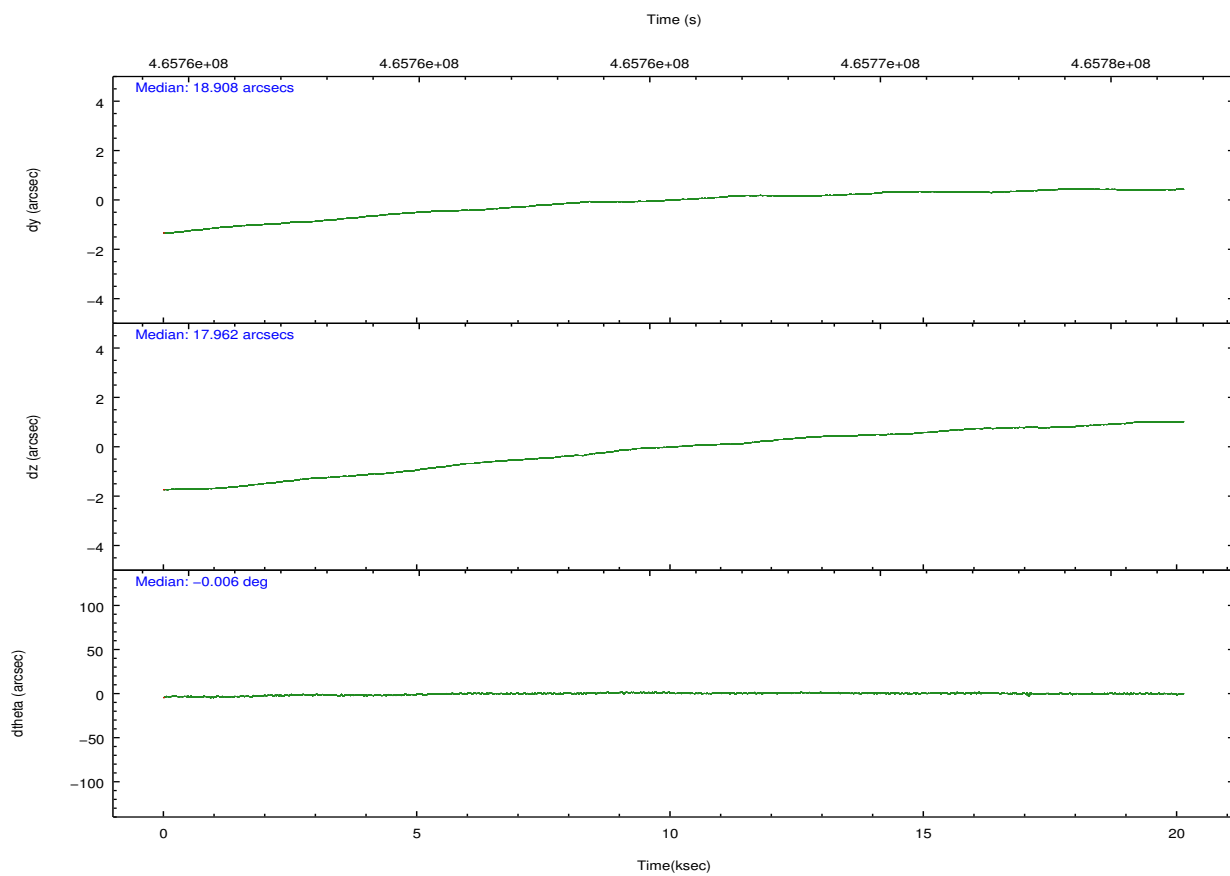
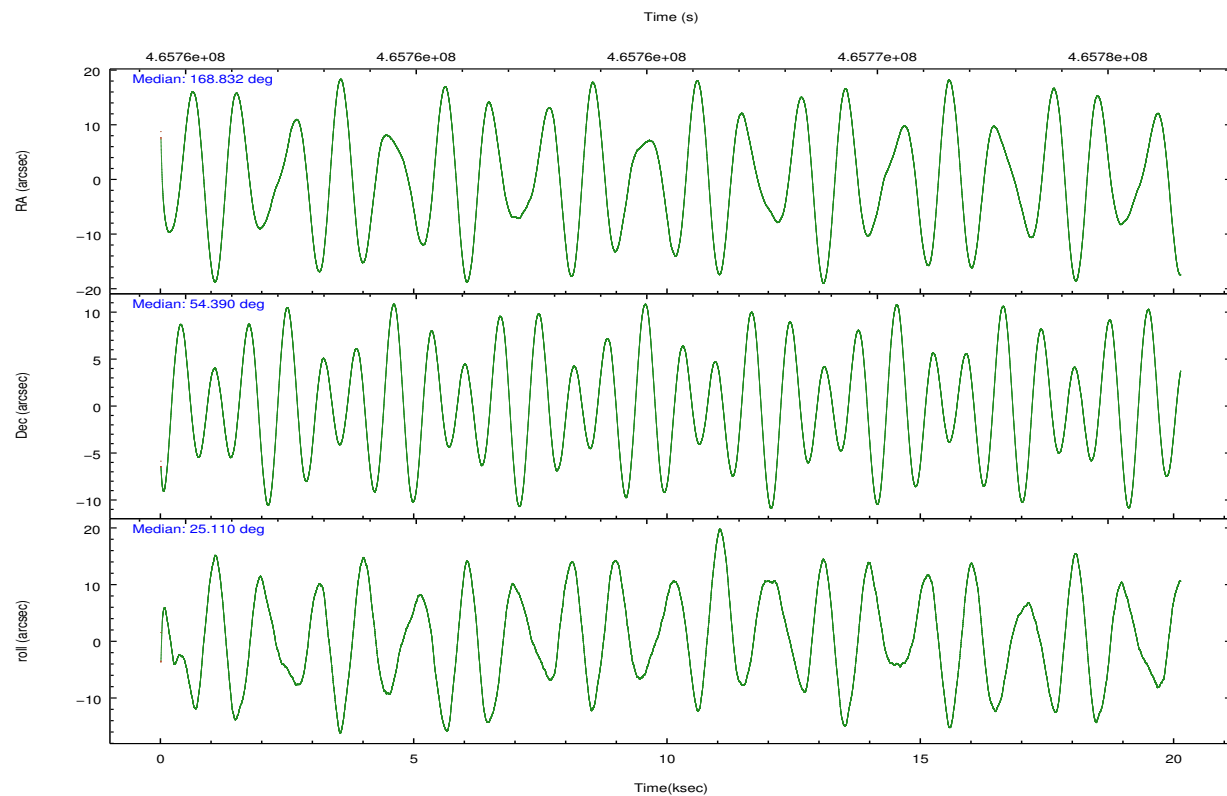
	ccd 7
grade 0 events	2331
	6%
grade 1 events	52
	0%
grade 2 events	4188
	10%
grade 3 events	2237
	5%
grade 4 events	2126
	5%
grade 5 events	3937
	10%
grade 6 events	9092
	23%
grade 7 events	14761
	38%

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	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	168.806022	168.8323260875318	Subarray requested	CUSTOM	1/4
[deg] Pointing Dec	54.367577	54.39021231598496	Subarray start row	385	385
[deg] Pointing Roll	24.977135	25.11238177520858	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	0.8
[mm] SIM translation stage pos	-190.132523	-190.145094680475			
[mm] SIM translation stage offset	0	0.01257209746719923			
[s] Observation start time (MET)	465755595.184000	465754395.64345			
Observation start date	2012-10-04T16:32:08	2012-10-04T16:13:15			
[s] Observation end time (MET)	465775595.184000	465775881.1821			
Observation end date	2012-10-04T22:05:28	2012-10-04T22:11:21			
Read mode	TIMED	TIMED			

2.3 Aspect



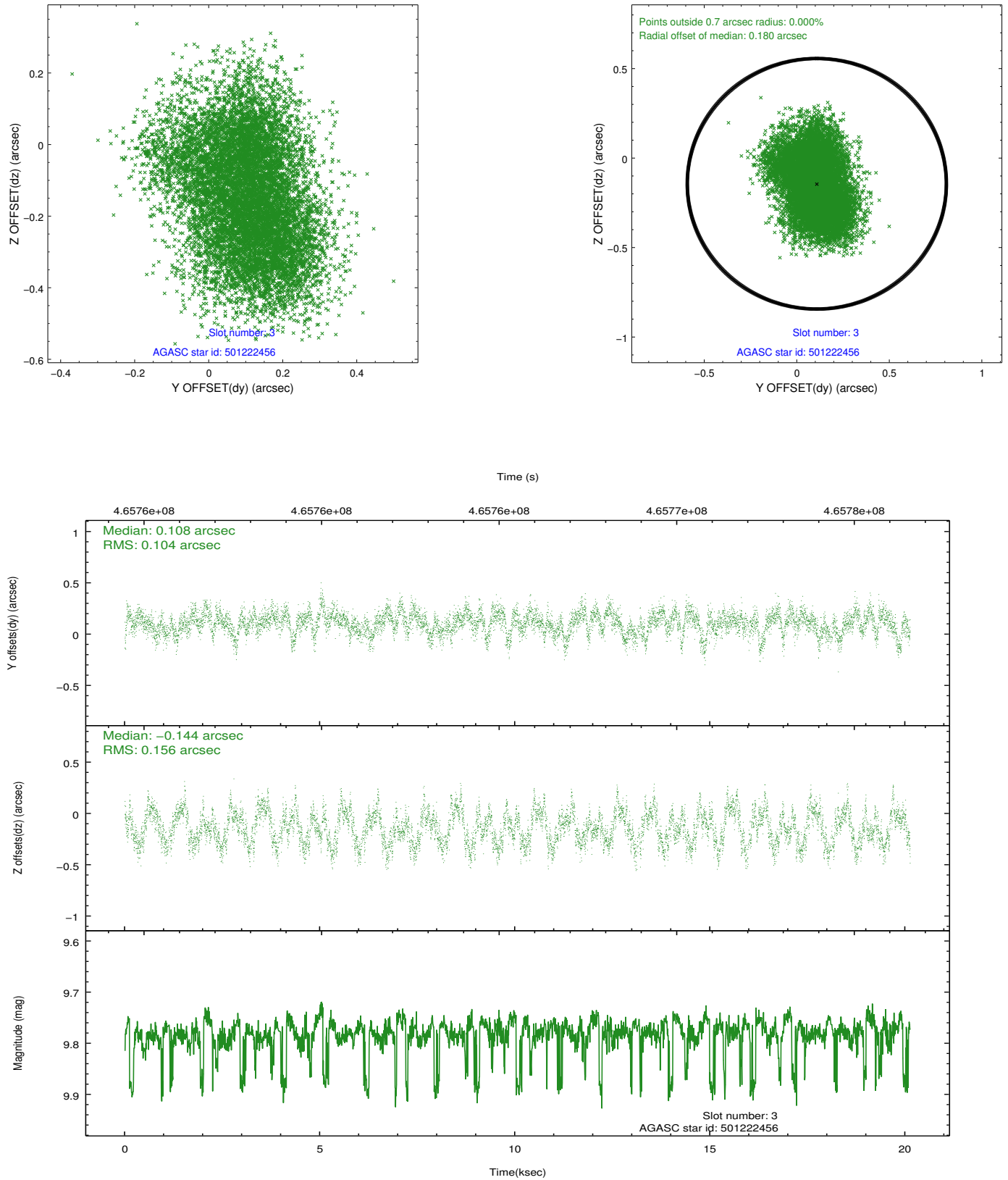


Slot Statistics

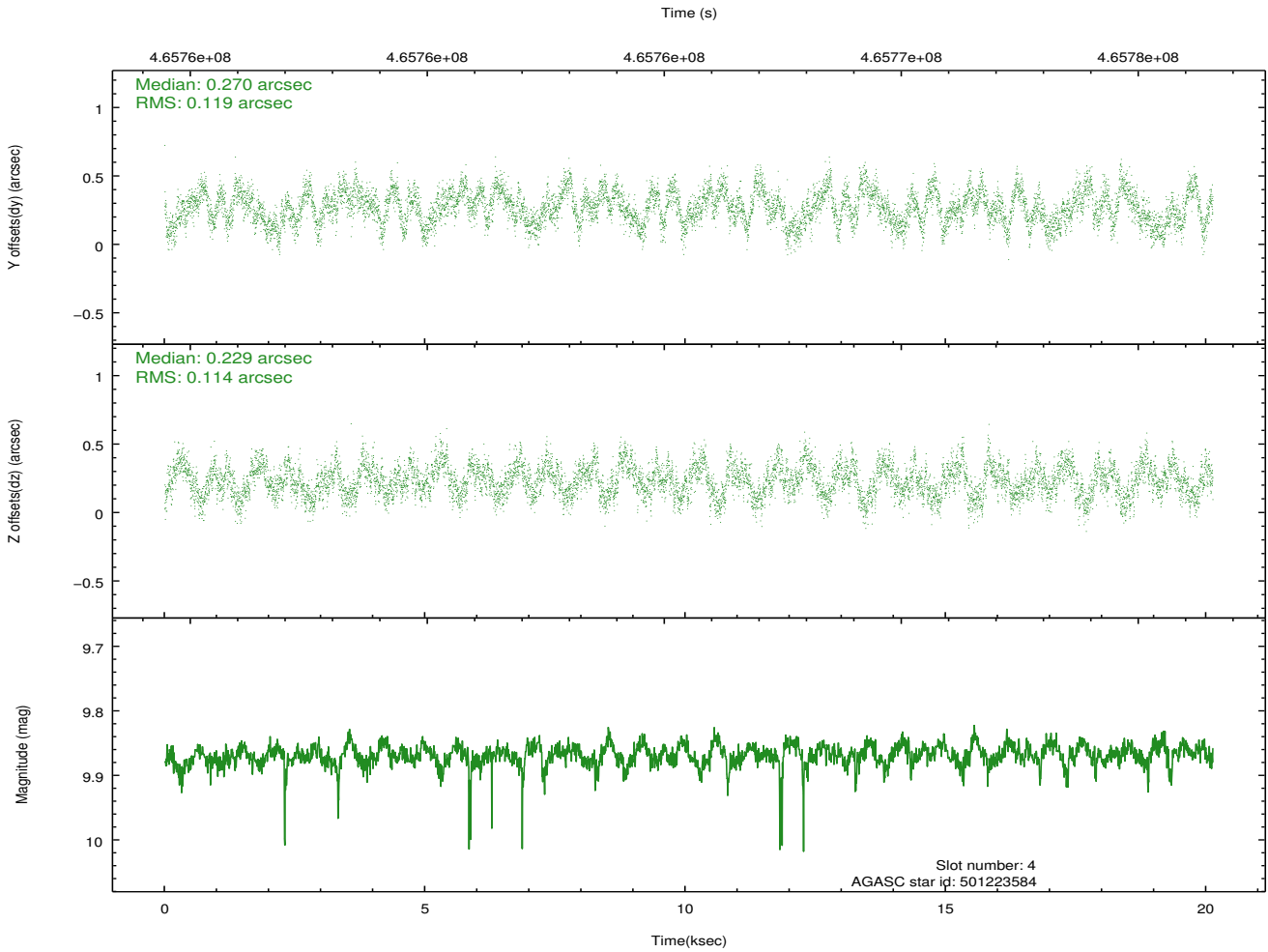
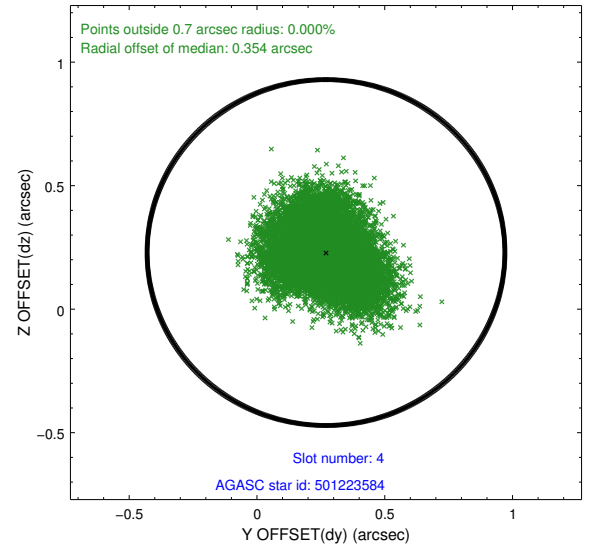
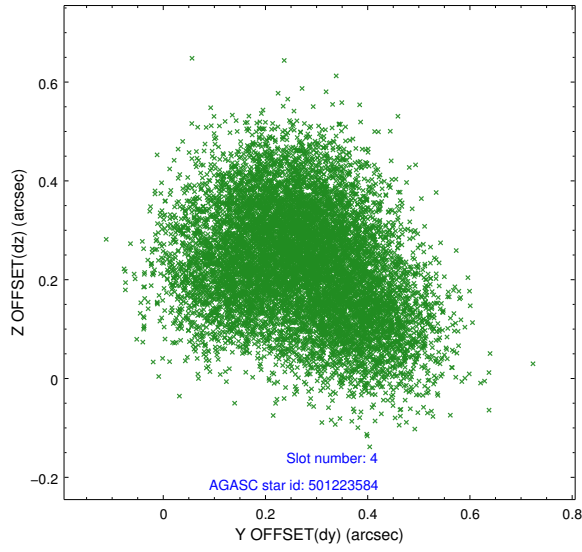
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	7.01	4910	0.106	-0.042	0.043	0.081	0.000000	0.000000	924.32	-1734.82
1	FID		ACIS-S-5	7.05	4910	-0.197	0.062	0.013	0.021	0.000000	0.000000	-1824.89	162.64
2	FID		ACIS-S-6	7.15	4910	0.074	-0.015	0.036	0.092	0.000000	0.000000	389.62	806.77
3	GUIDE	used	501222456	9.78	9619	0.108	-0.144	0.204	0.320	168.239995	54.432892	-972.77	718.02
4	GUIDE	used	501223584	9.87	9804	0.270	0.229	0.179	0.273	168.065020	53.930652	-2084.09	-754.88
5	GUIDE	used	501225352	10.24	9773	0.371	0.216	0.203	0.329	168.362377	54.192755	-1111.40	-173.02
6	GUIDE	used	501357016	9.18	9813	-0.222	-0.193	0.109	0.180	169.764530	54.650733	2245.21	93.91
7	GUIDE	used	501751456	9.43	9806	-0.523	-0.109	0.156	0.246	169.305081	55.110196	2062.06	1992.98

2.4 Star Slots

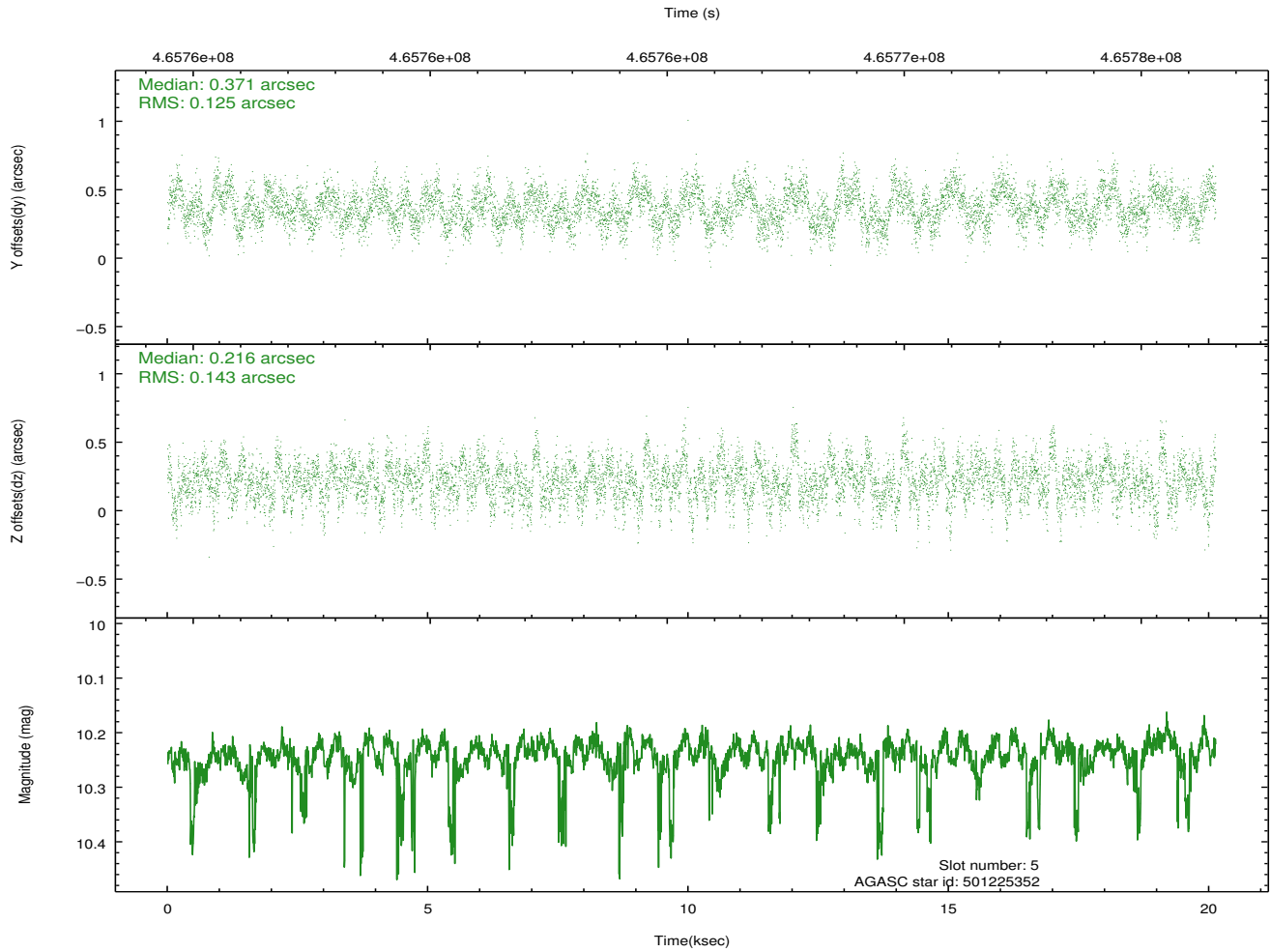
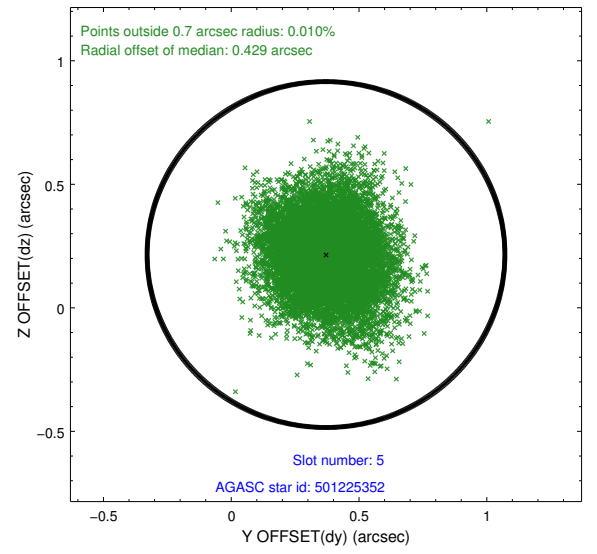
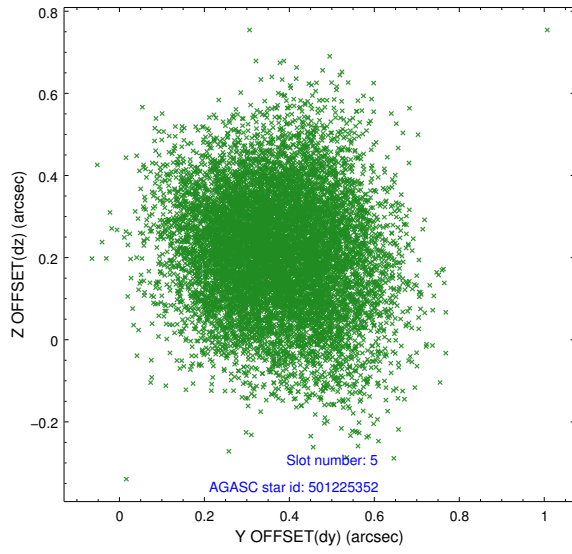
2.4.1 Slot 3



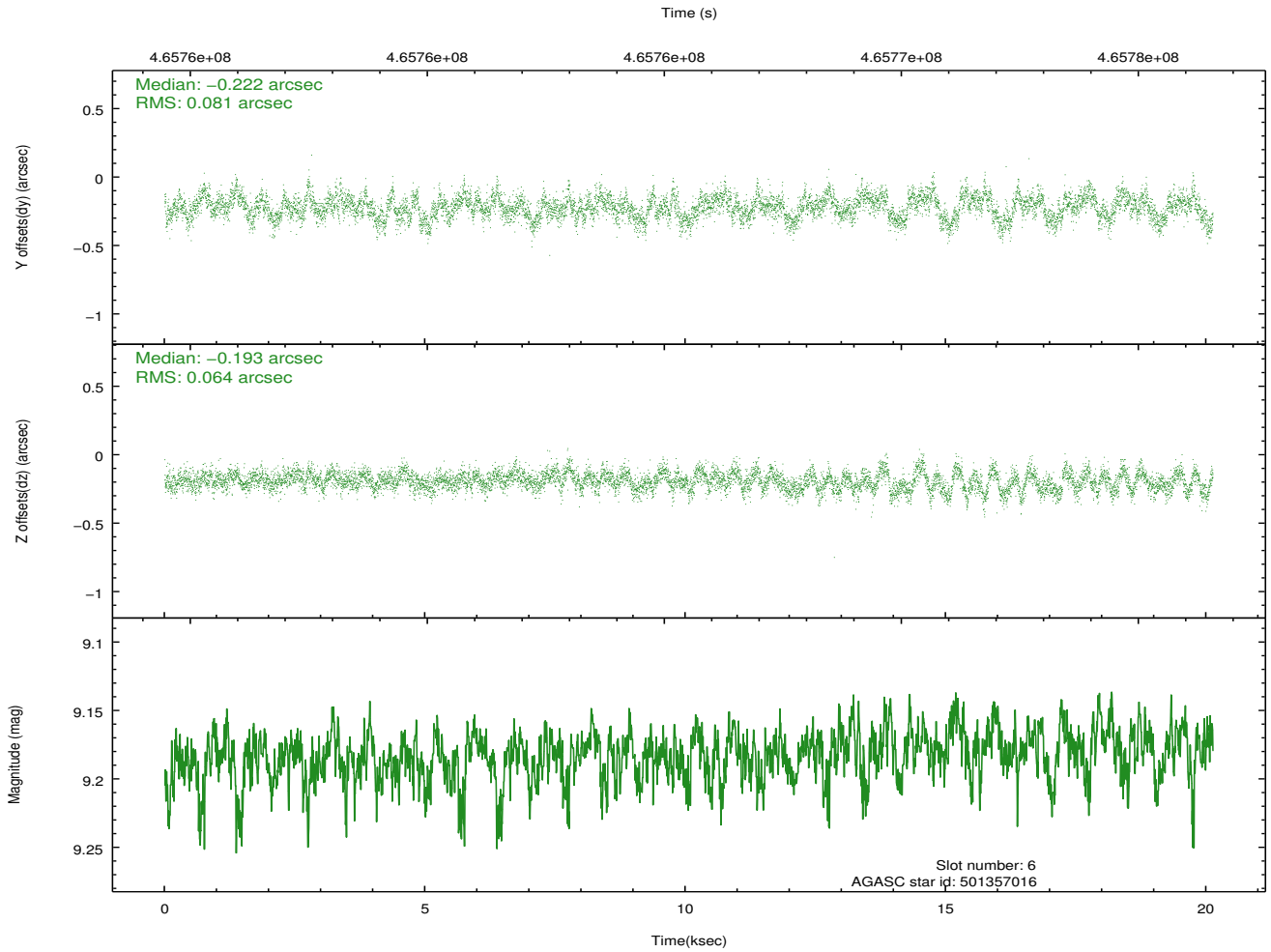
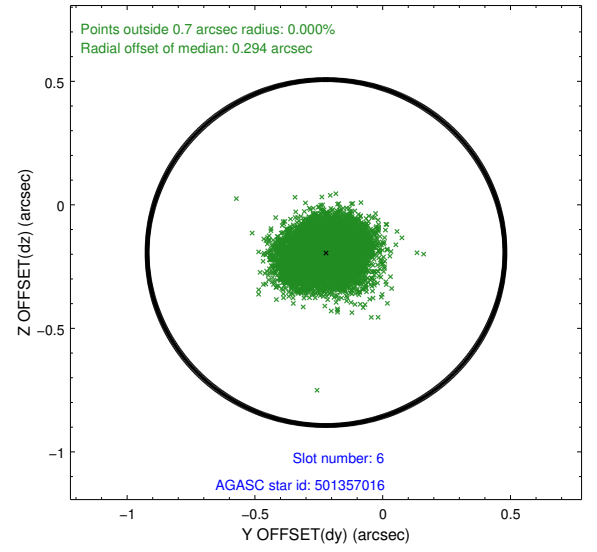
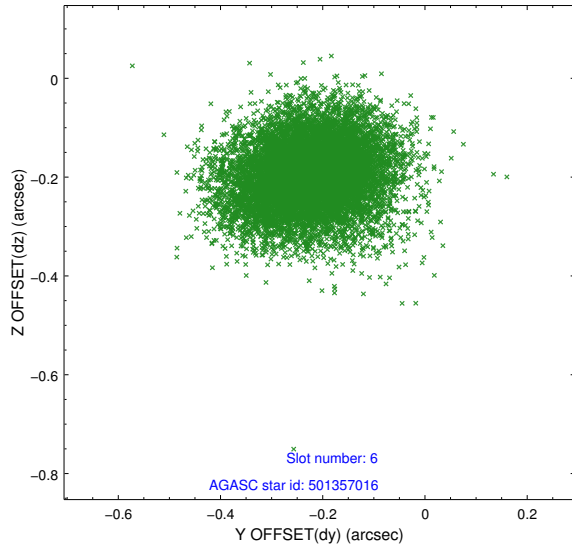
2.4.2 Slot 4



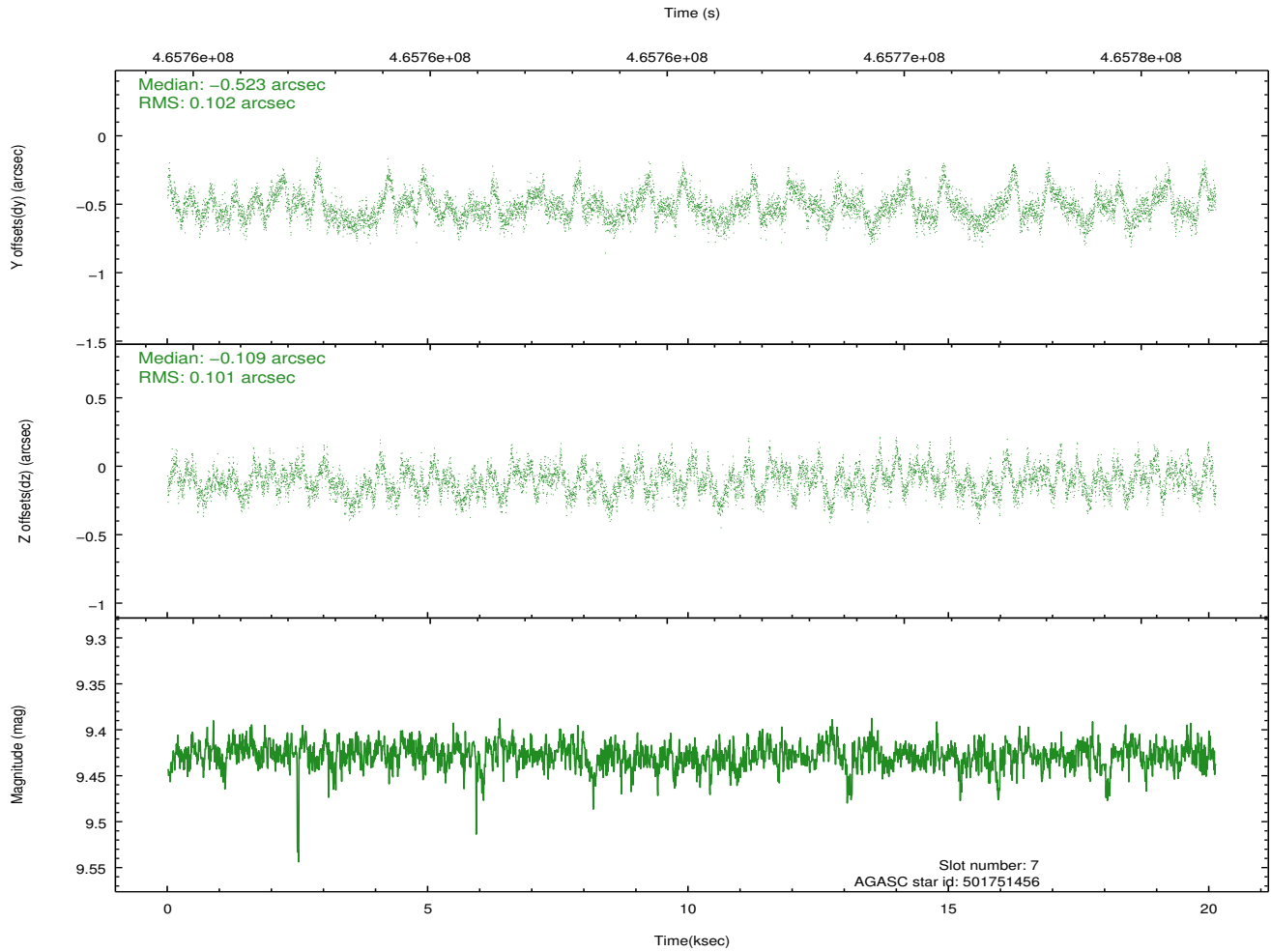
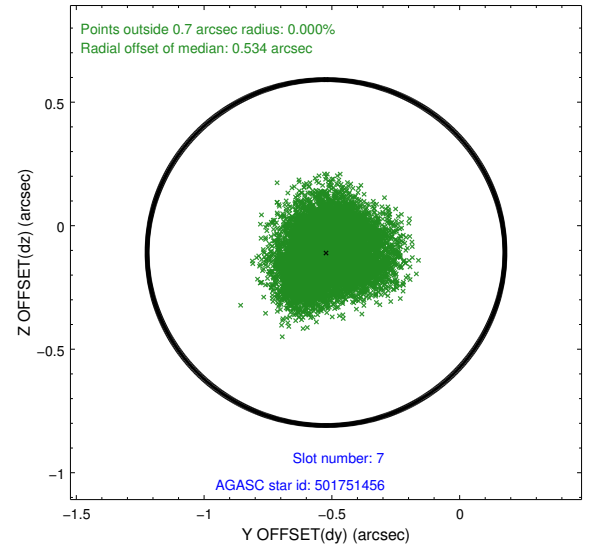
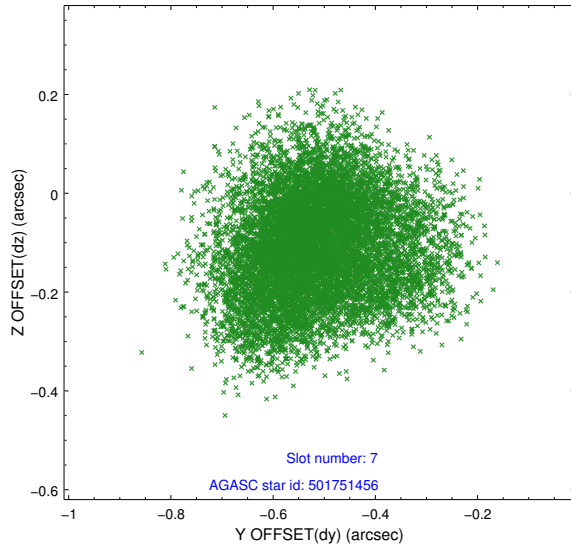
2.4.3 Slot 5



2.4.4 Slot 6

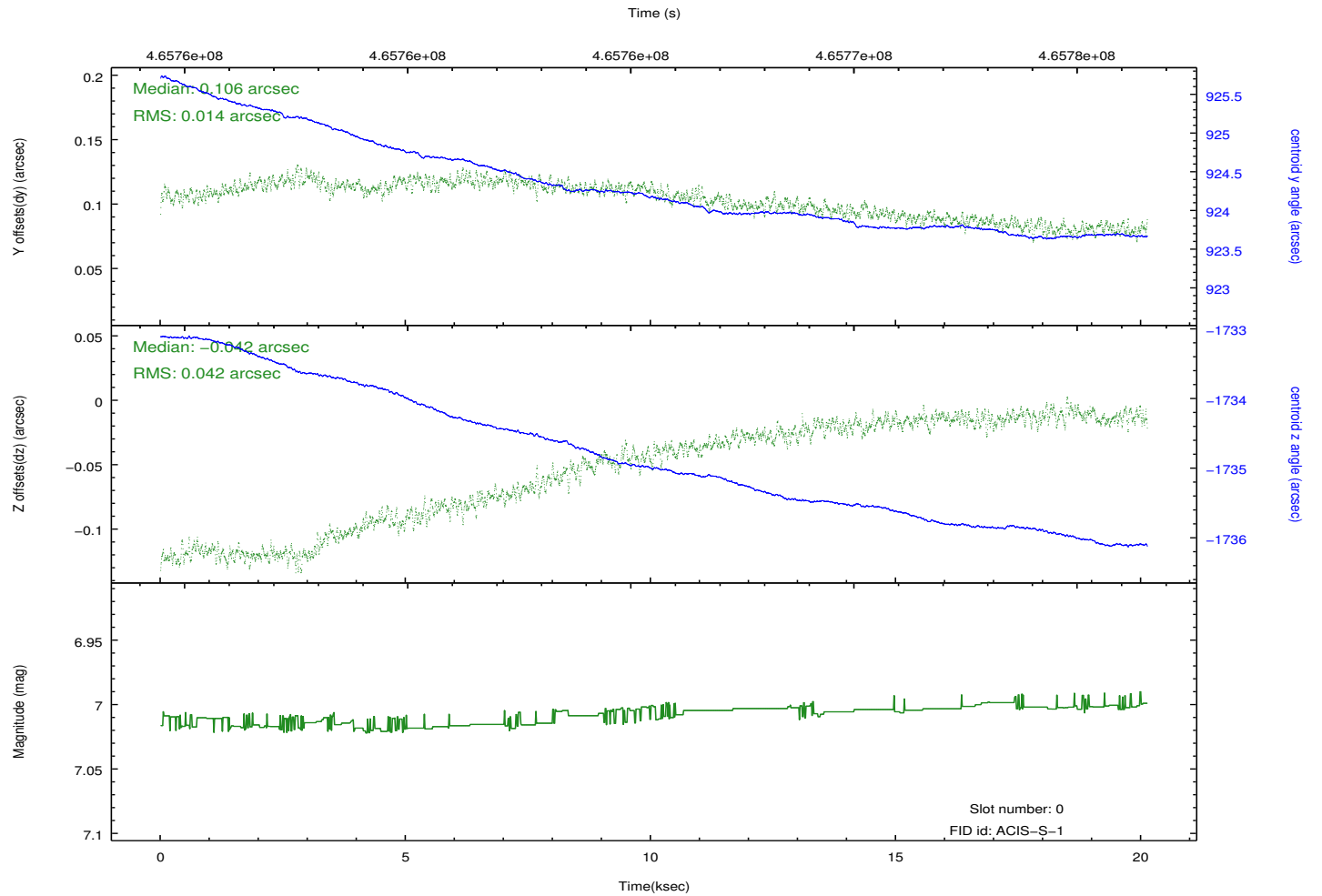
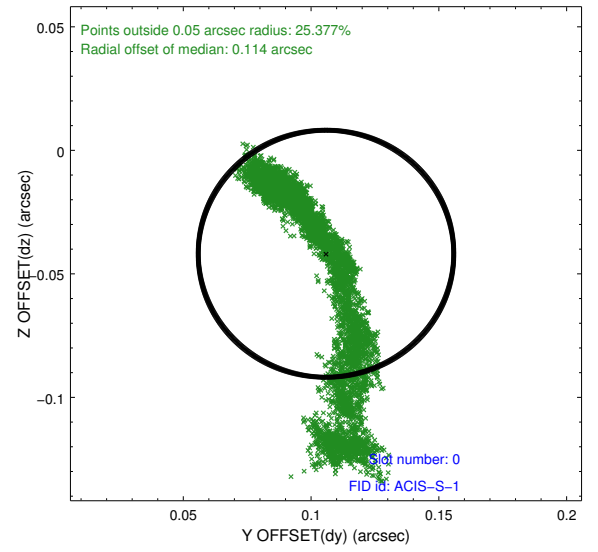
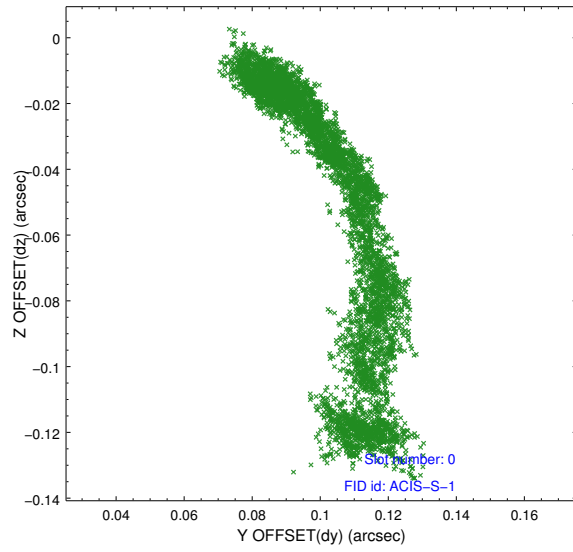


2.4.5 Slot 7

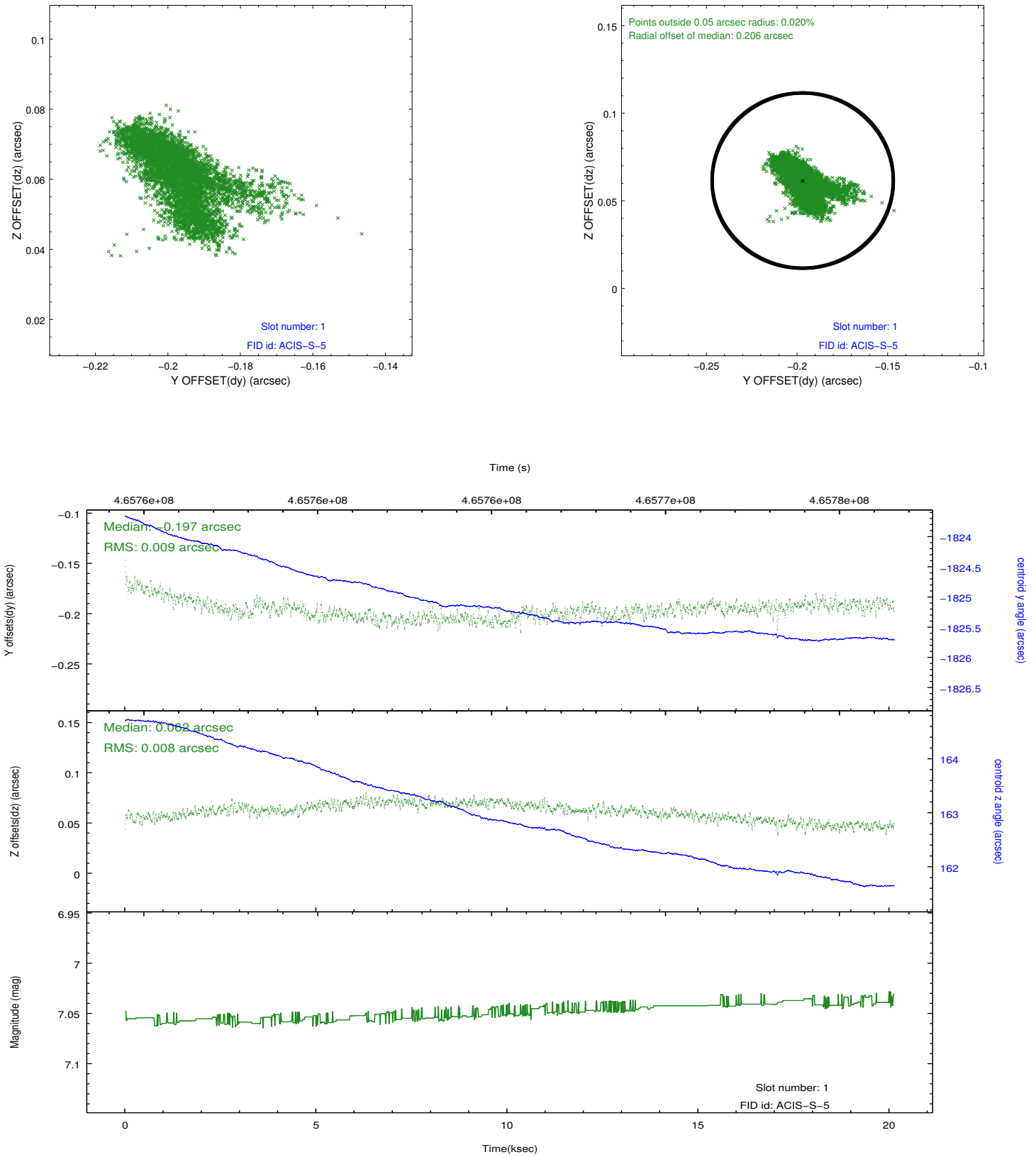


2.5 FID Slots

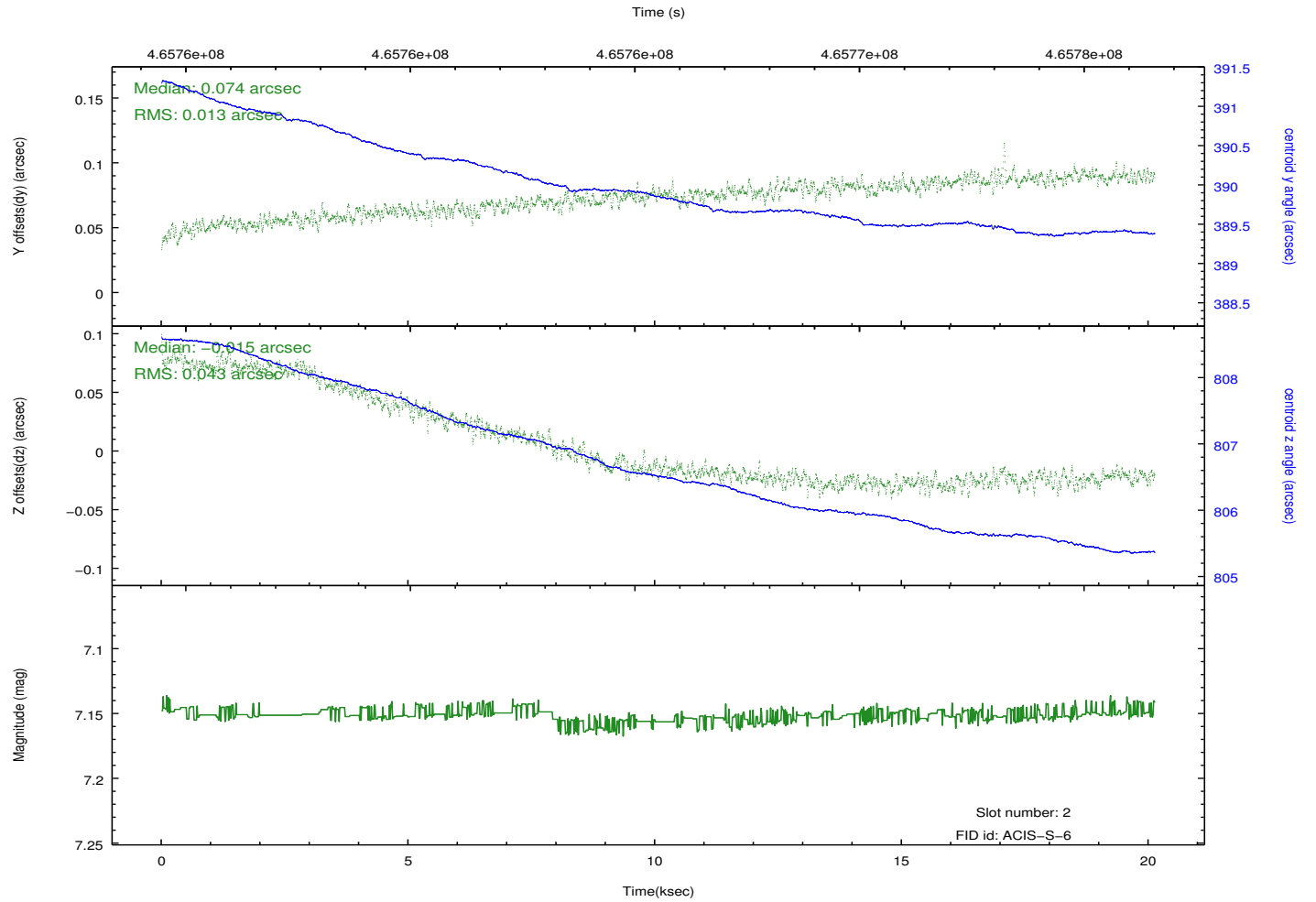
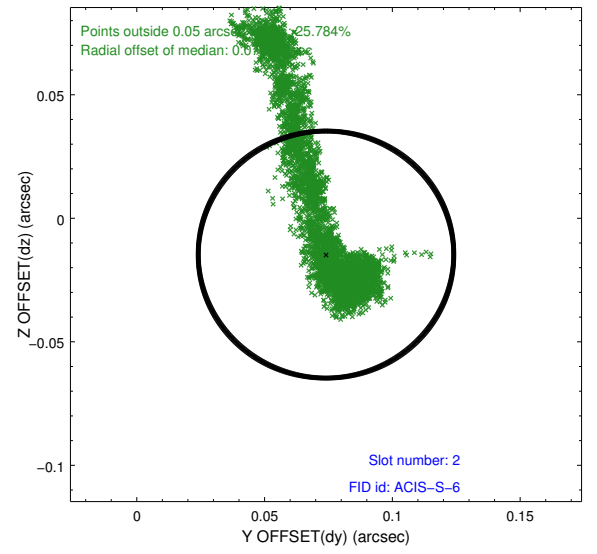
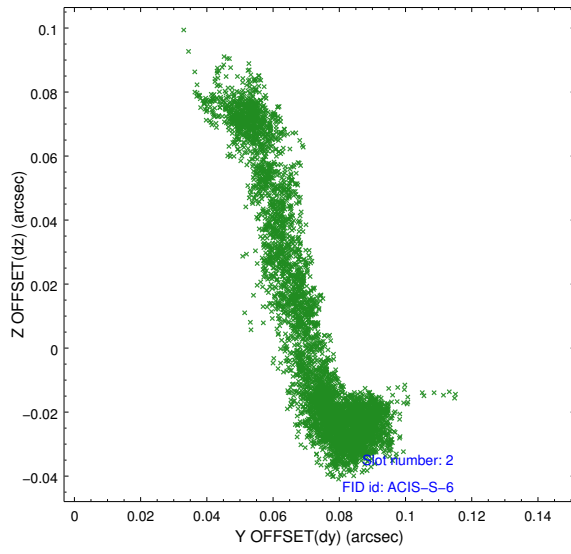
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2014.12.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.060800298989

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.