

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 15357 - L2 Version 2
Chandra X-Ray Center

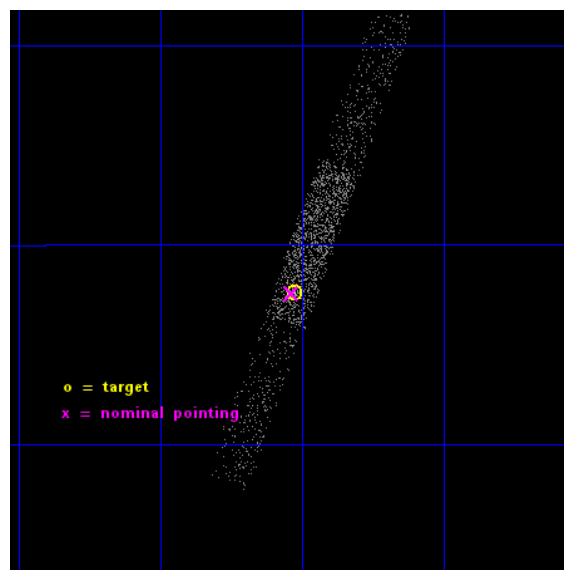
L2 Processing Date : Nov 29 2014

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1 Front

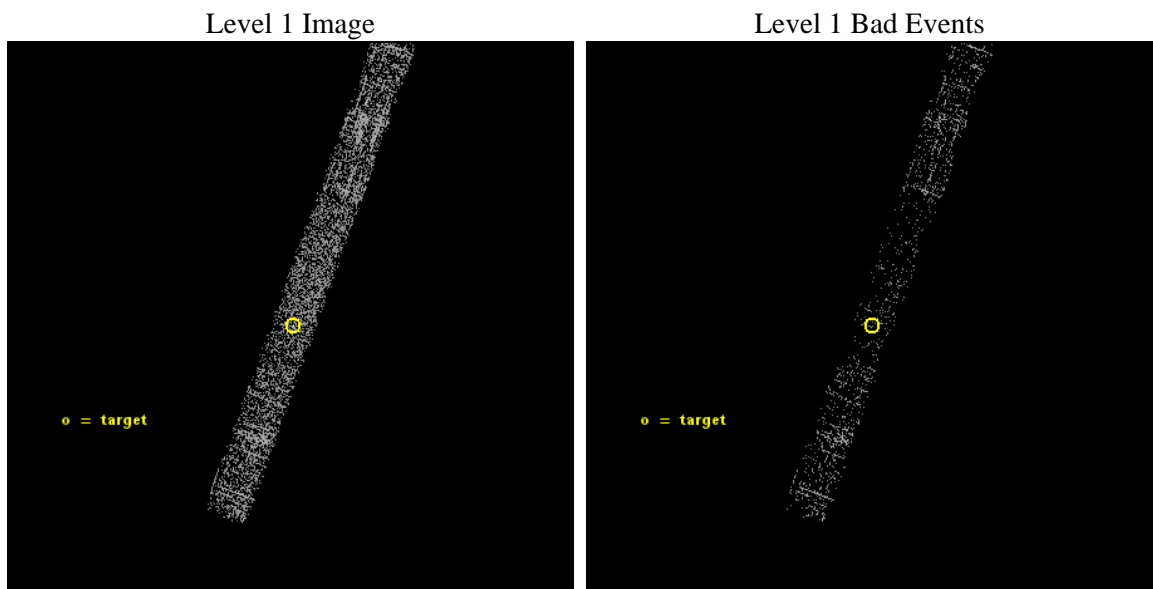
seq_num	702917	Sequence number
obs_id	15357	Observation id
title	Clarifying the Nature of Weak-Line Quasars with Chandra Spectroscopy and Snapshots	Proposal title
observer	Professor Gordon Garmire	Principal investigator
object	PHL 1811	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	328.75625	Observer's specified target RA [deg]
dec_targ	-9.373417	Observer's specified target Dec [deg]
ra_nom	328.7592349385	Nominal RA [deg]
dec_nom	-9.3738709404975	Nominal Dec [deg]
roll_nom	290.37504617387	Nominal Roll [deg]
revision	2	Processing version of data
ontime	2093.3999445438	Sum of GTIs [s]
livetime	2002.1040020503	Livetime [s]
ontime6	2093.3999445438	Sum of GTIs [s]
ontime7	2093.3999445438	Sum of GTIs [s]
ontime8	2093.3999445438	Sum of GTIs [s]
l2events	2184	Number of level 2 events



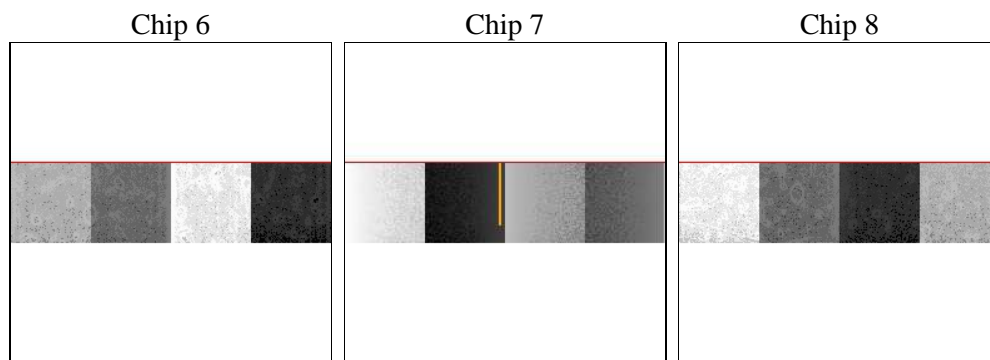
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	2000.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	2093.3999445438	Sum of GTIs [s]
caldsver	4.6.4	 	ontime6	2093.3999445438	Sum of GTIs [s]
date	2014-11-30T01:26:58	Date and time of file creation	ontime7	2093.3999445438	Sum of GTIs [s]
revision	2	Processing version of data	ontime8	2093.3999445438	Sum of GTIs [s]
			l1events	9646	Number of level 1 events

2.1.4 Events

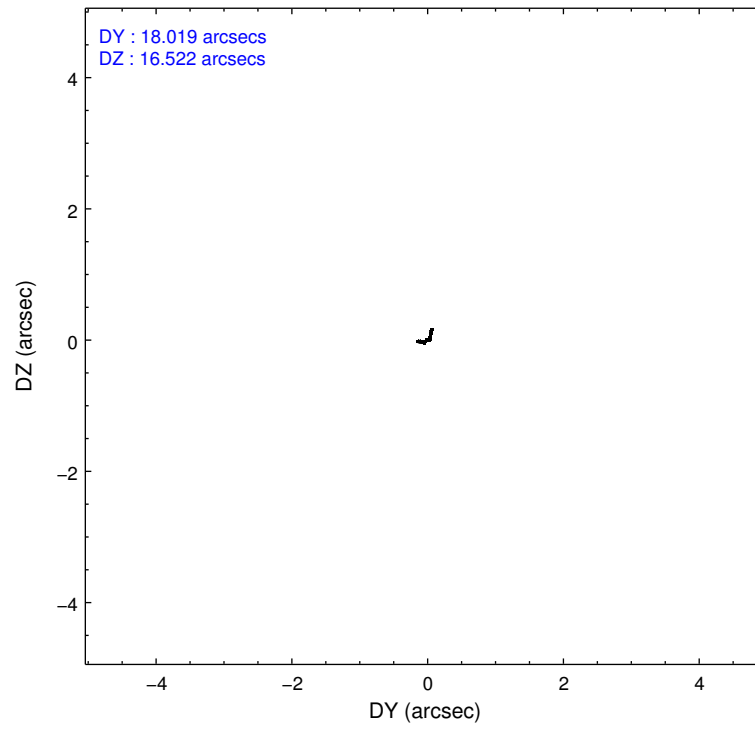
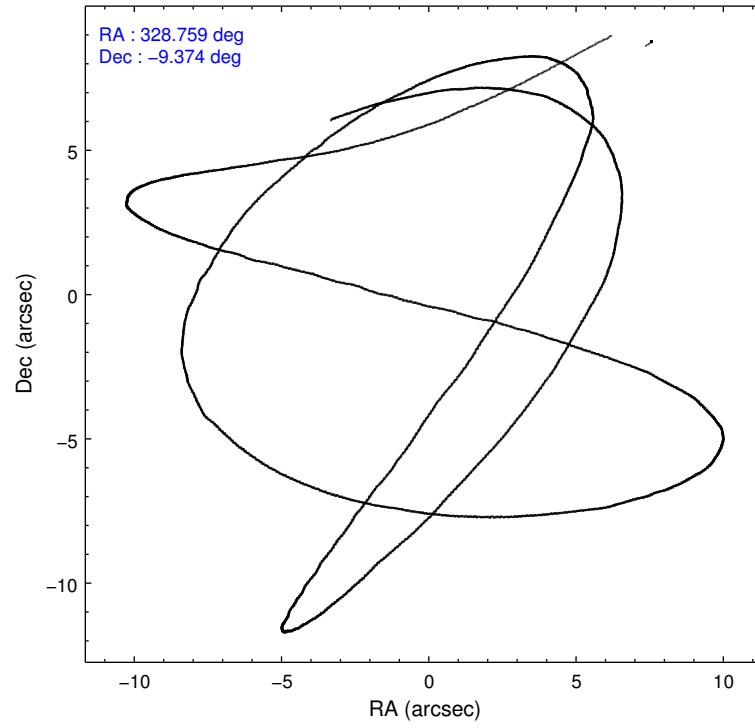
	ccd 6	ccd 7	ccd 8
level 1 events	3014	3012	3620
rejected events	2655	1377	2660
rejected %	88%	45%	73%

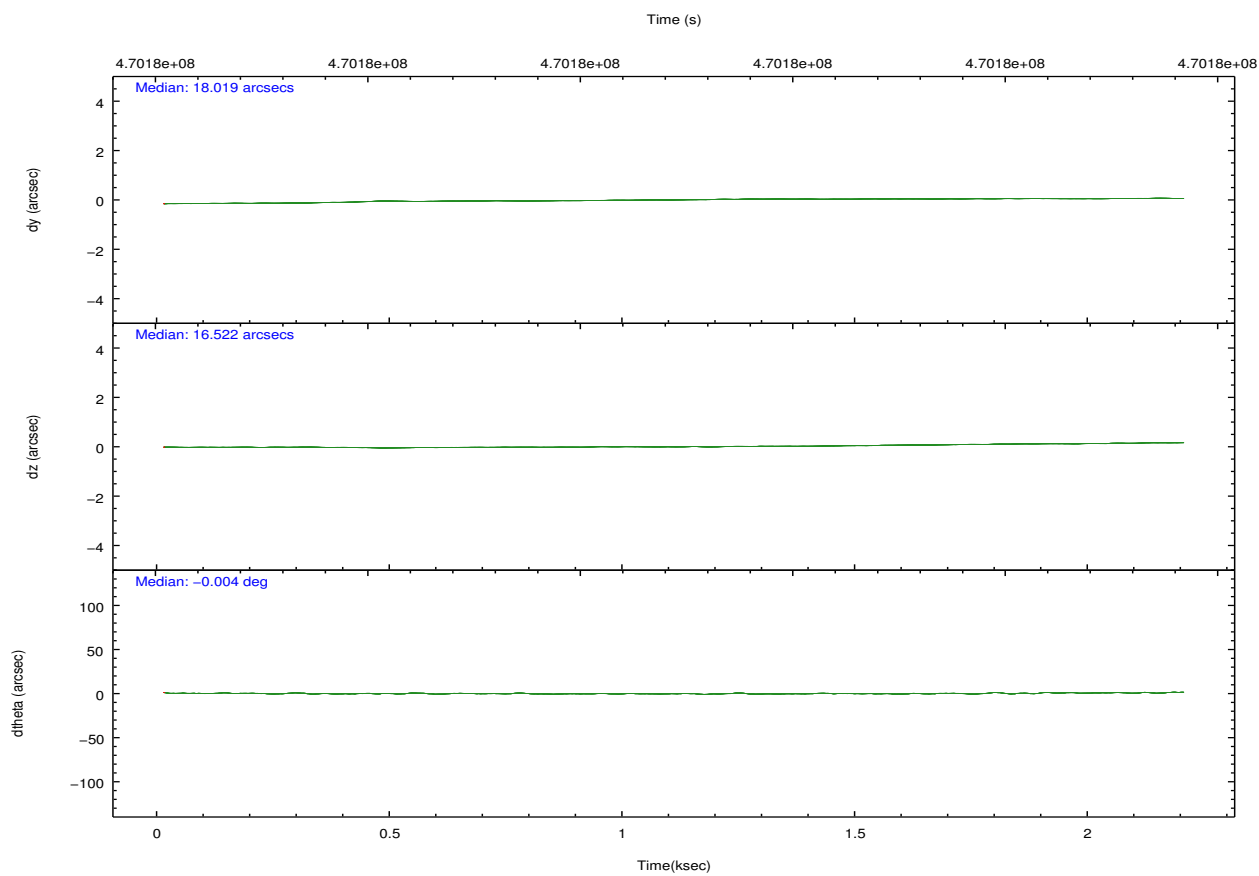
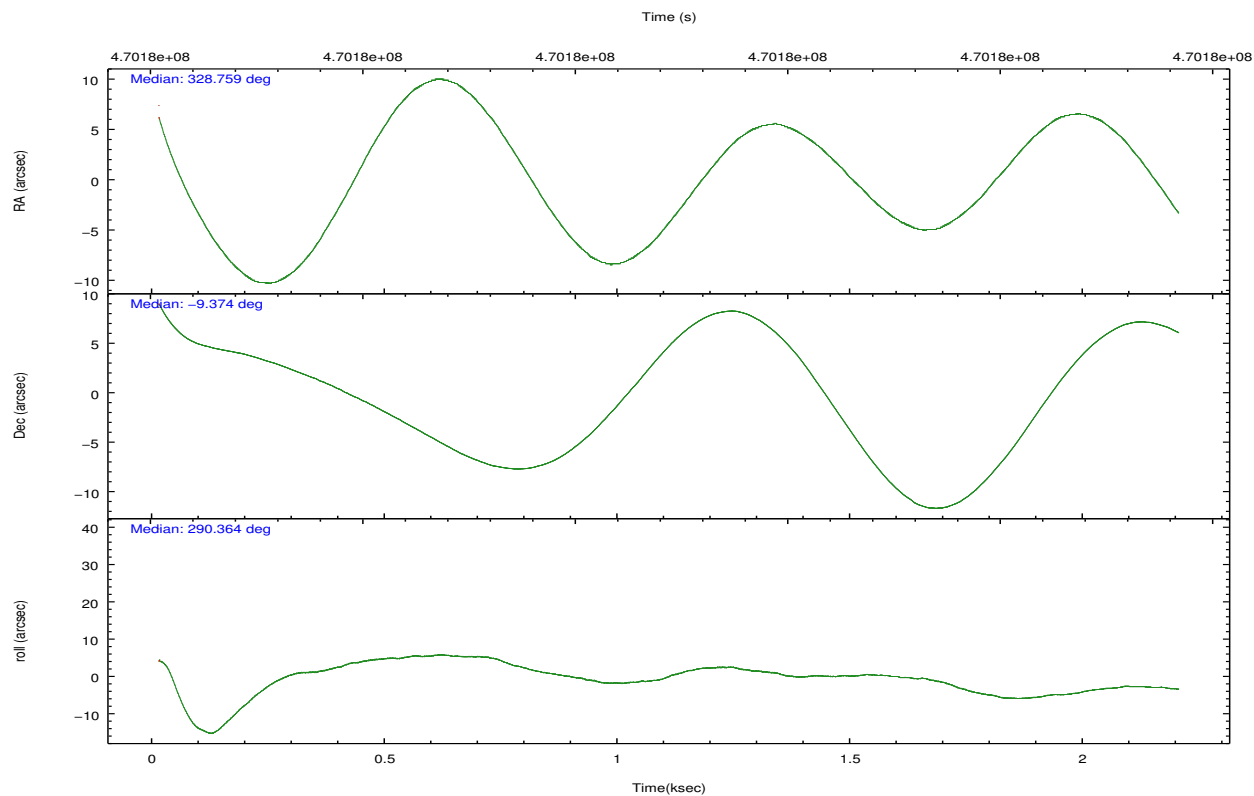
	ccd 6	ccd 7	ccd 8
grade 0 events	105	187	238
	3%	6%	6%
grade 1 events	1	4	0
	0%	0%	0%
grade 2 events	60	339	231
	1%	11%	6%
grade 3 events	64	180	105
	2%	5%	2%
grade 4 events	59	200	101
	1%	6%	2%
grade 5 events	117	297	156
	3%	9%	4%
grade 6 events	71	731	285
	2%	24%	7%
grade 7 events	2537	1074	2504
	84%	35%	69%

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	328.737661	328.7592349385029	Subarray requested	CUSTOM	1/4
[deg] Pointing Dec	-9.356905	-9.373870940497516	Subarray start row	385	385
[deg] Pointing Roll	290.214826	290.3750461738665	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)	470175823.184000	470174572.56841			
Observation start date	2012-11-24T20:22:36	2012-11-24T20:02:52			
[s] Observation end time (MET)	470177823.184000	470178541.36862			
Observation end date	2012-11-24T20:55:56	2012-11-24T21:09:01			
Read mode	TIMED	TIMED			

2.3 Aspect



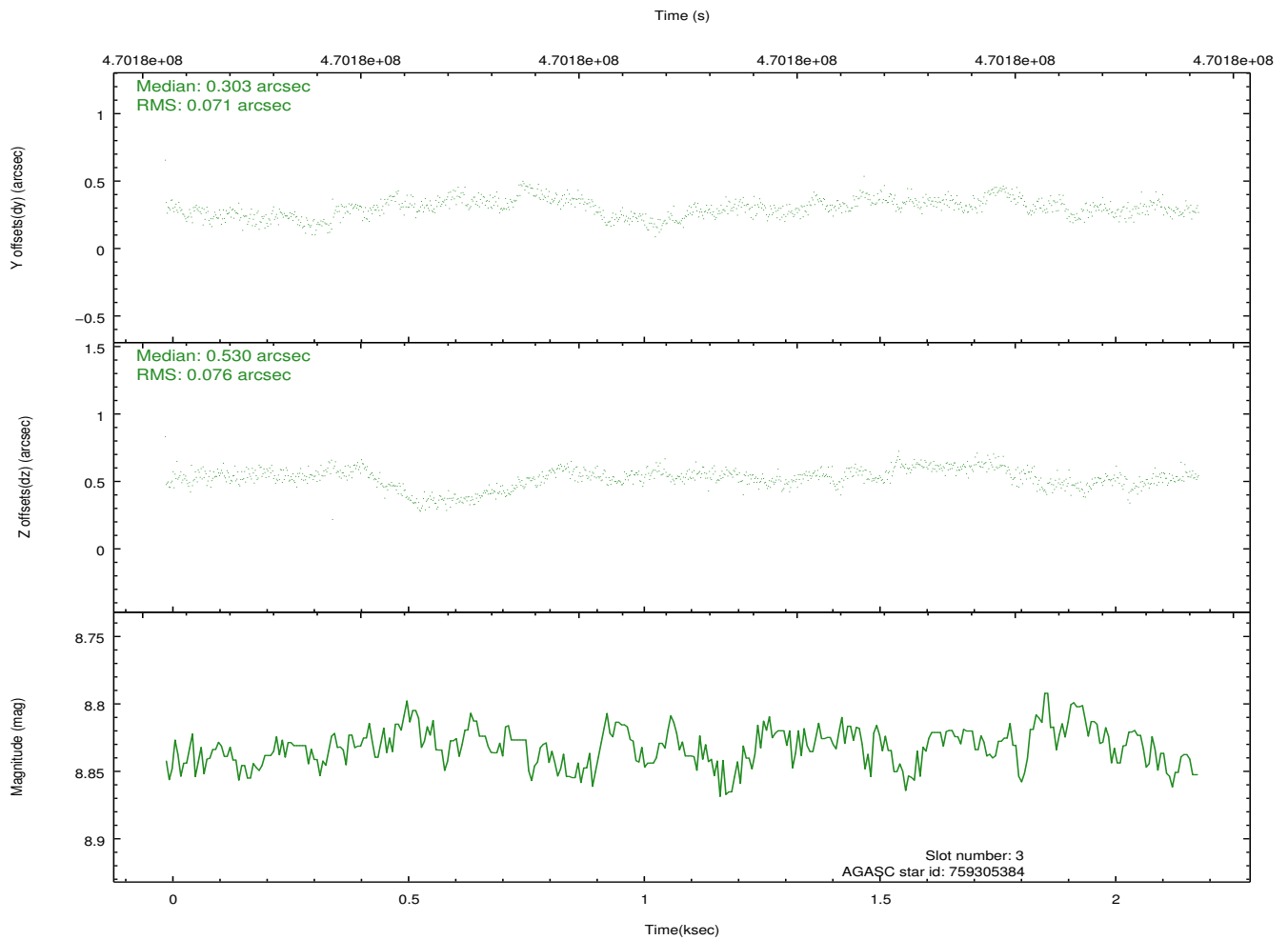
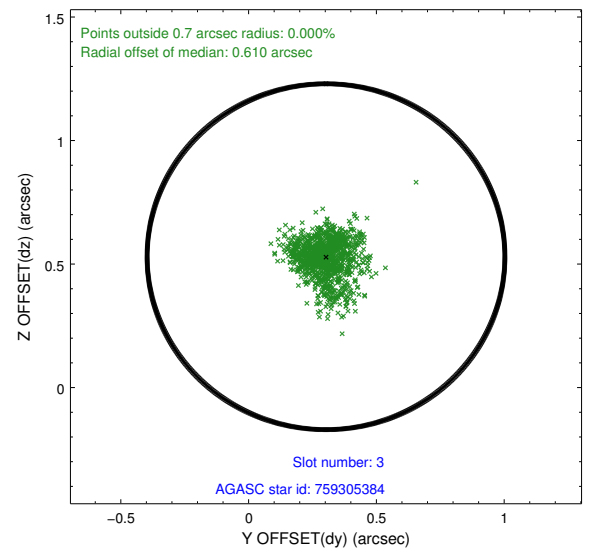
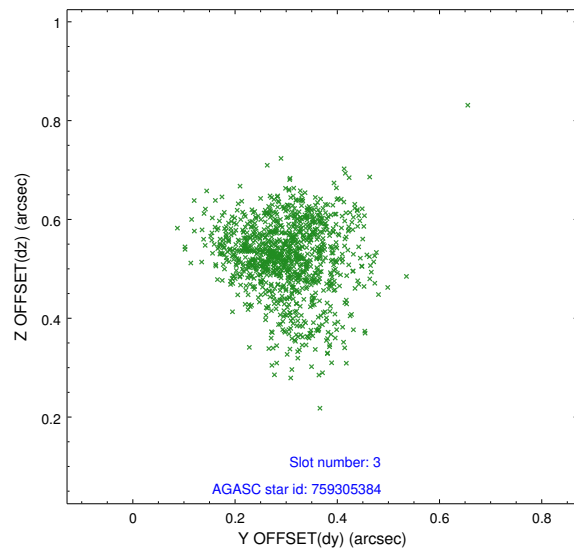


Slot Statistics

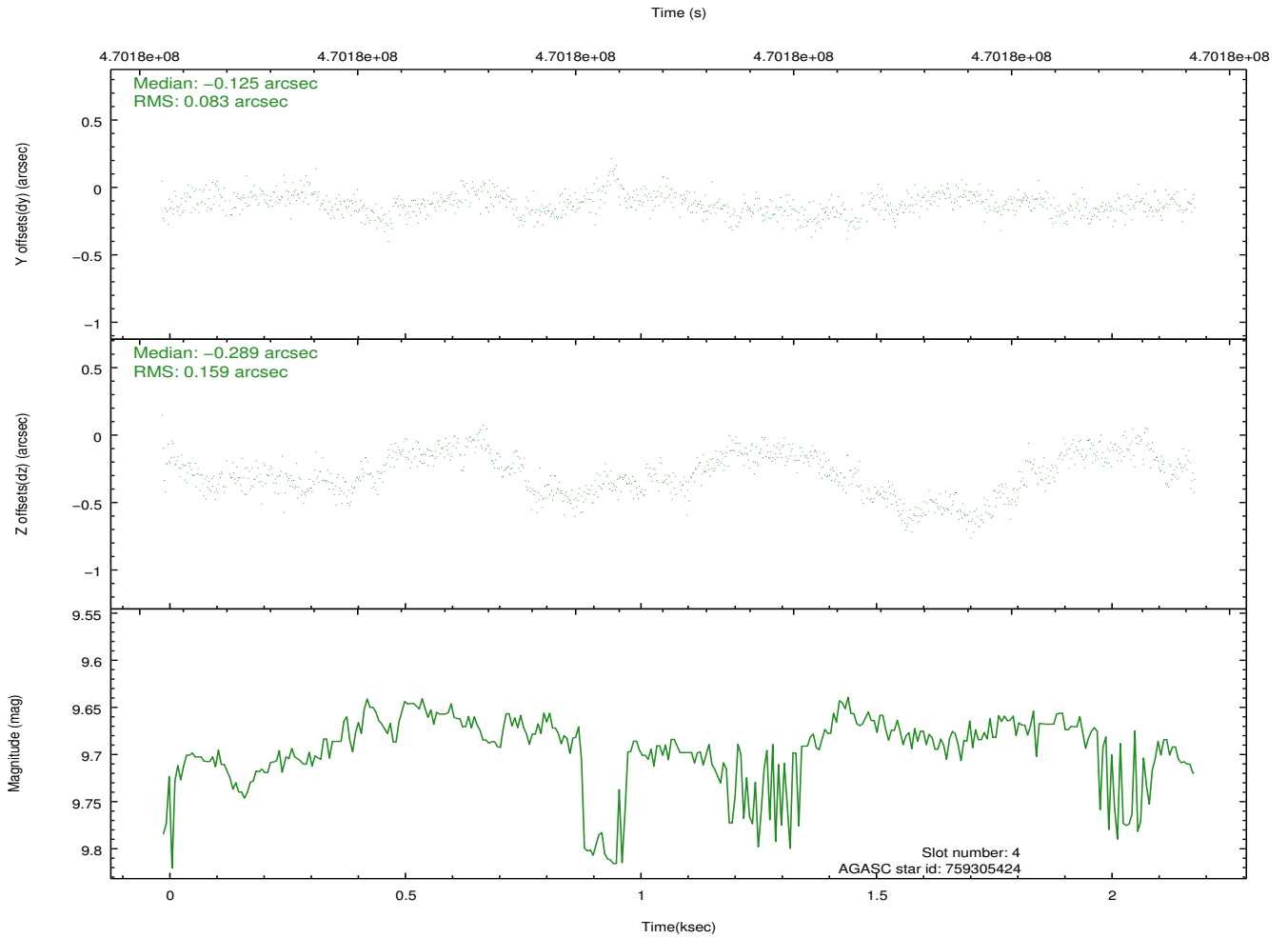
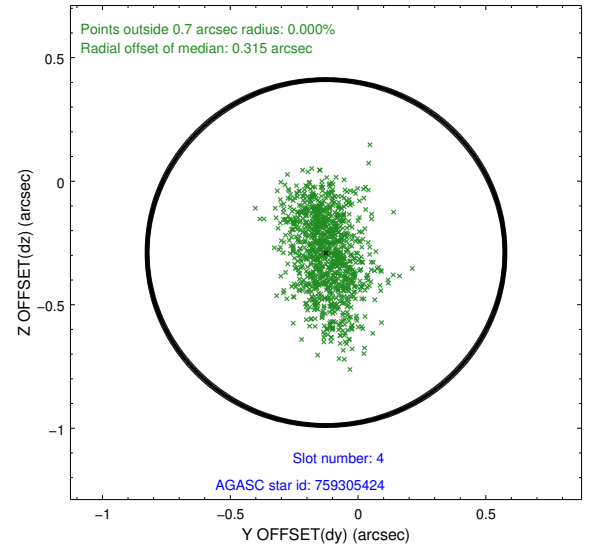
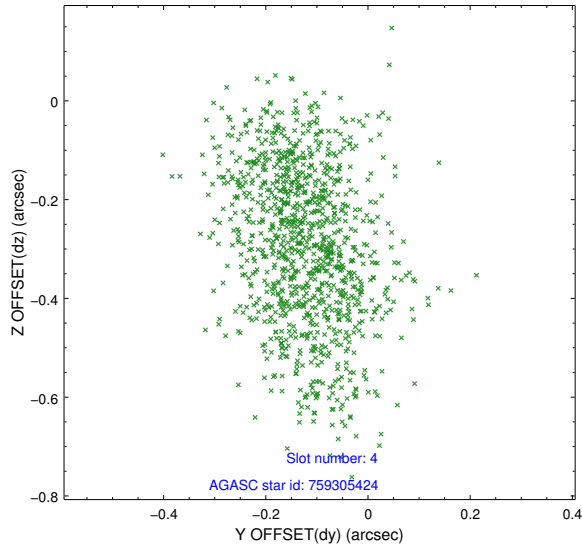
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.00	535	-0.087	-0.007	0.007	0.011	0.000000	0.000000	-771.14	-1737.93
1	FID		ACIS-S-4	7.09	535	0.239	0.044	0.005	0.012	0.000000	0.000000	2141.09	167.53
2	FID		ACIS-S-5	7.12	535	-0.182	-0.028	0.007	0.012	0.000000	0.000000	-1820.28	164.50
3	GUIDE	used	759305384	8.83	1070	0.303	0.530	0.107	0.184	328.426697	-9.776111	1037.11	-1556.17
4	GUIDE	used	759305424	9.69	1060	-0.125	-0.289	0.190	0.313	328.253023	-9.924329	1326.72	-2320.42
5	GUIDE	used	759307952	6.42	1070	-0.102	-0.174	0.062	0.103	329.103732	-9.585858	1225.14	932.32
6	GUIDE	used	759308224	7.41	1070	-0.137	-0.113	0.066	0.128	328.123687	-9.417926	-542.63	-2122.18
7	GUIDE	used	759308864	9.10	1069	0.064	0.061	0.110	0.182	329.073084	-9.505733	915.27	930.54

2.4 Star Slots

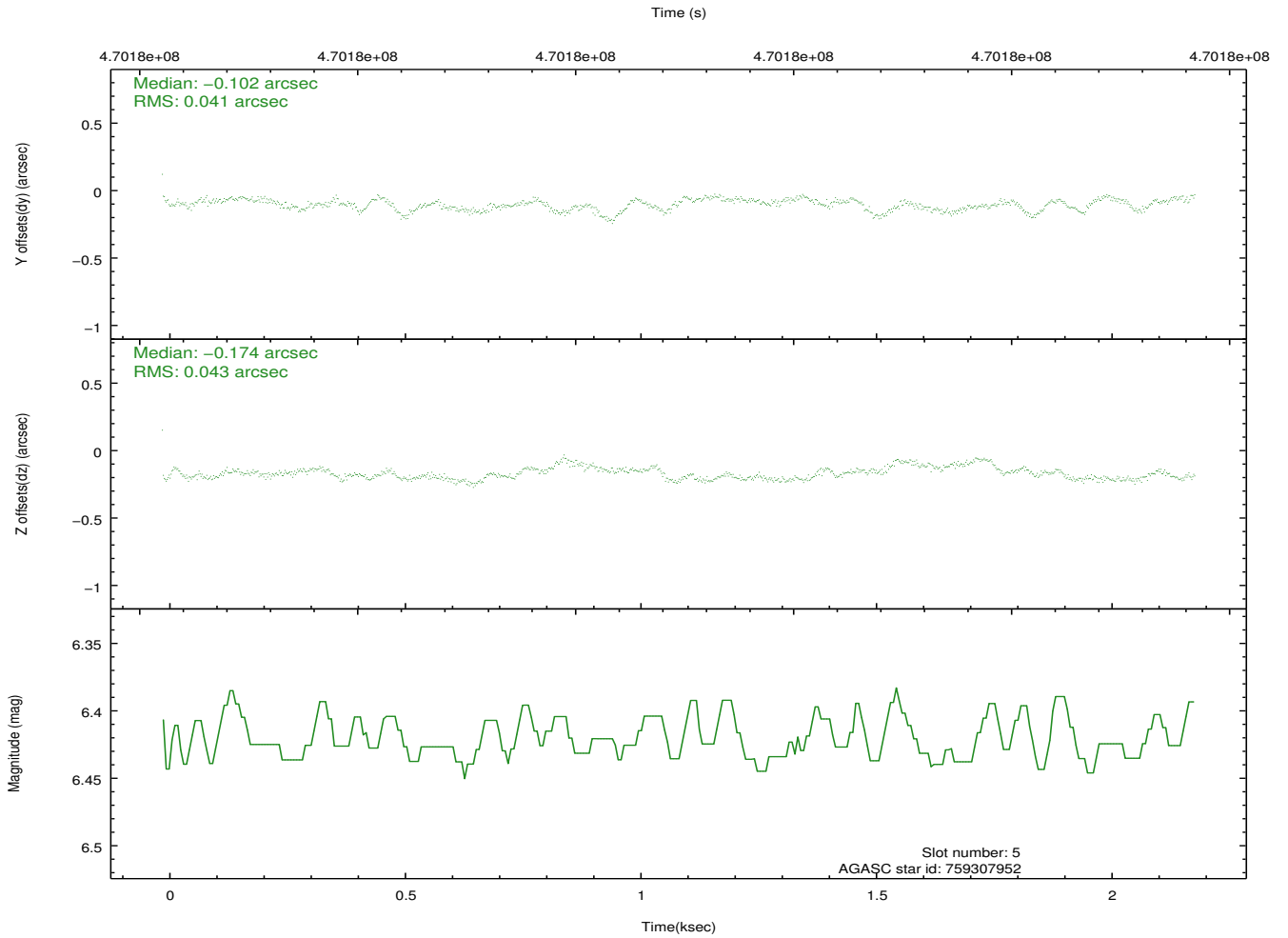
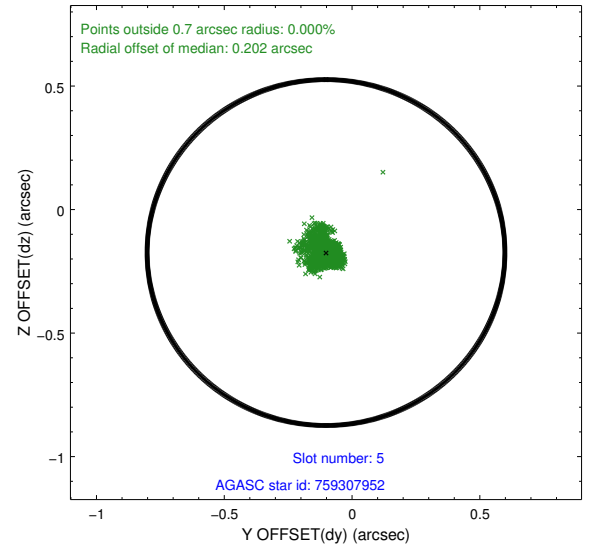
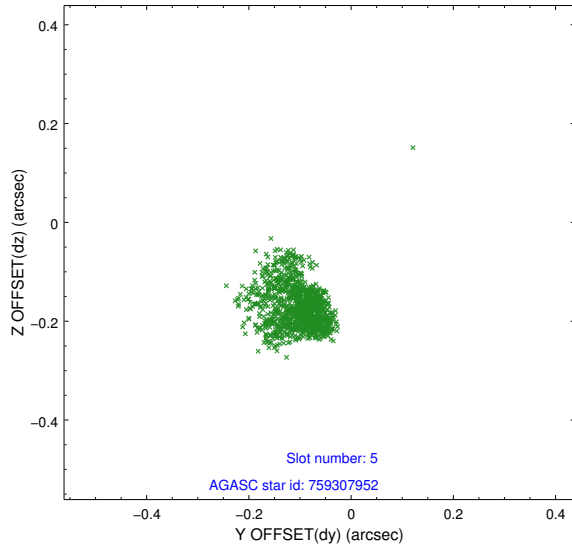
2.4.1 Slot 3



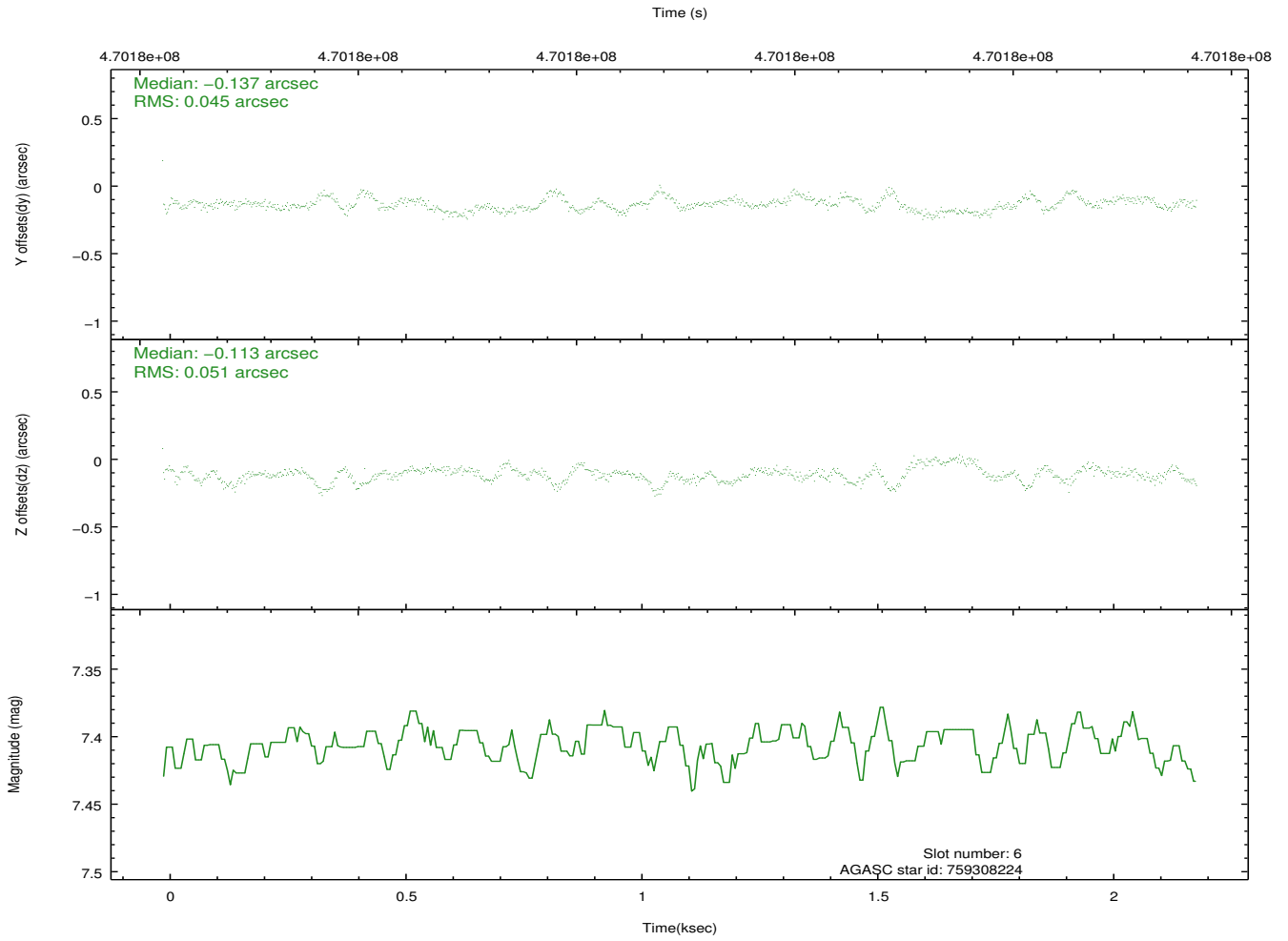
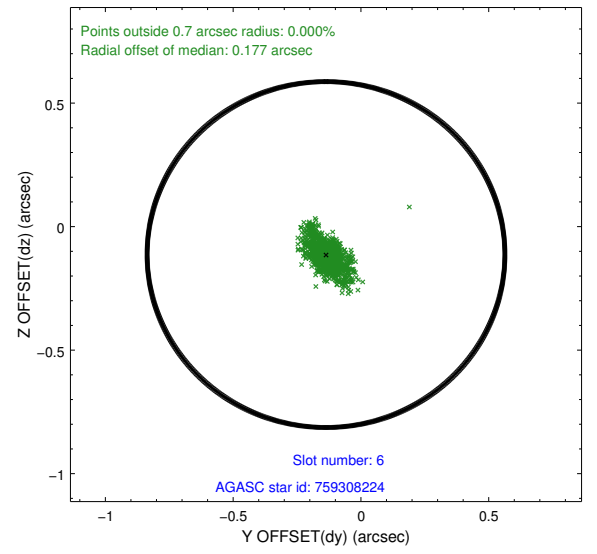
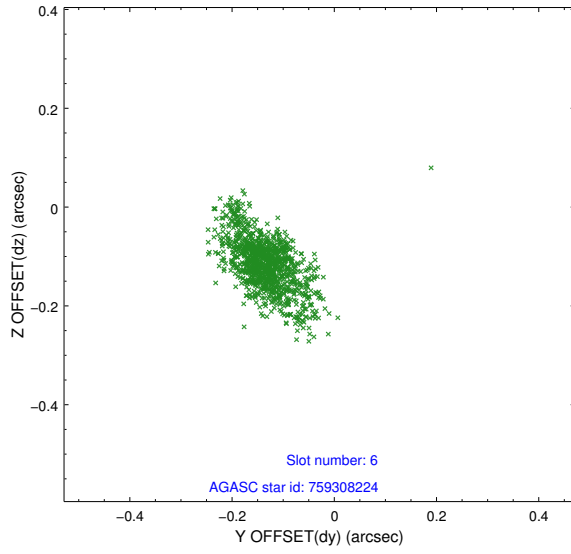
2.4.2 Slot 4



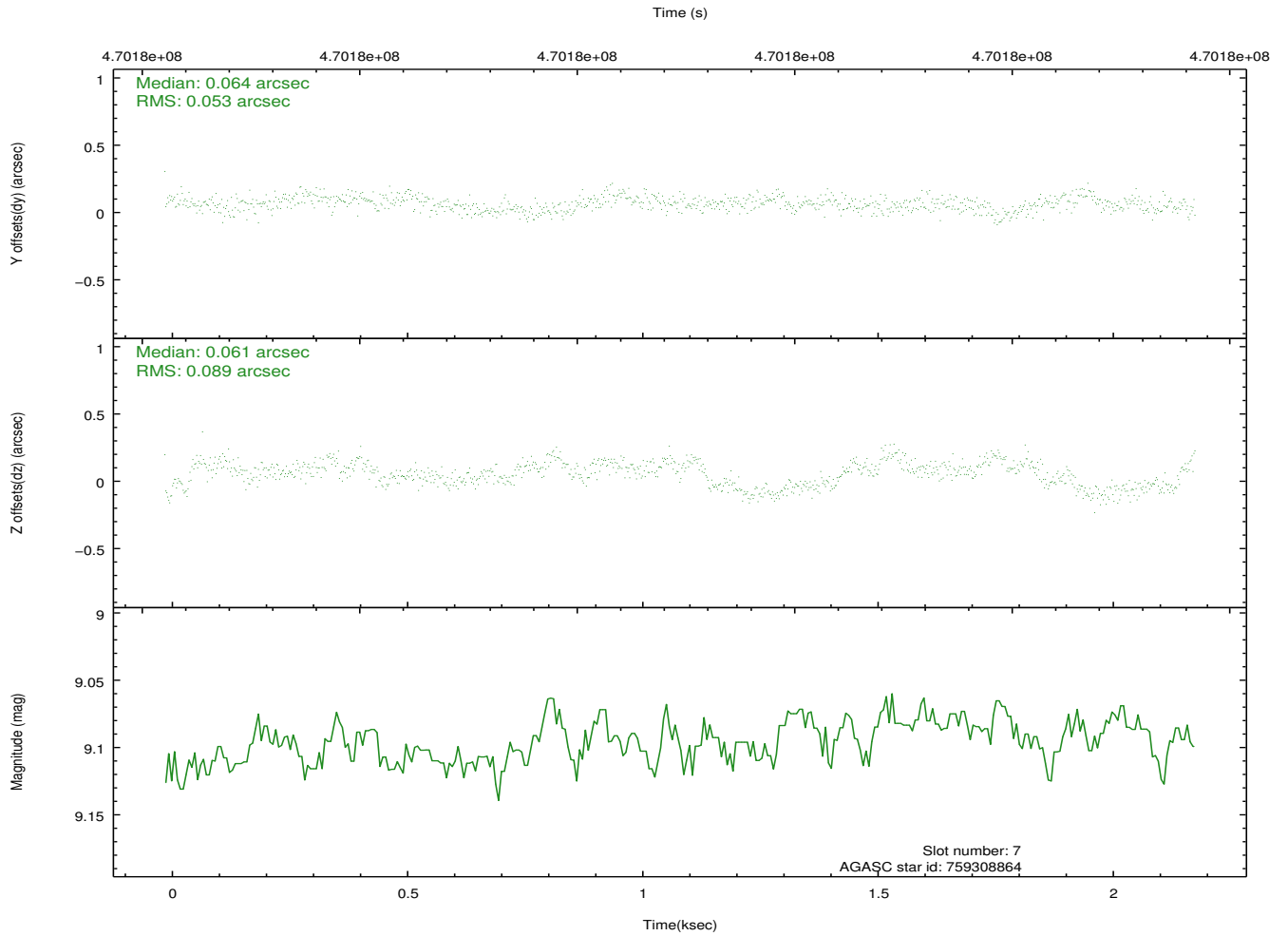
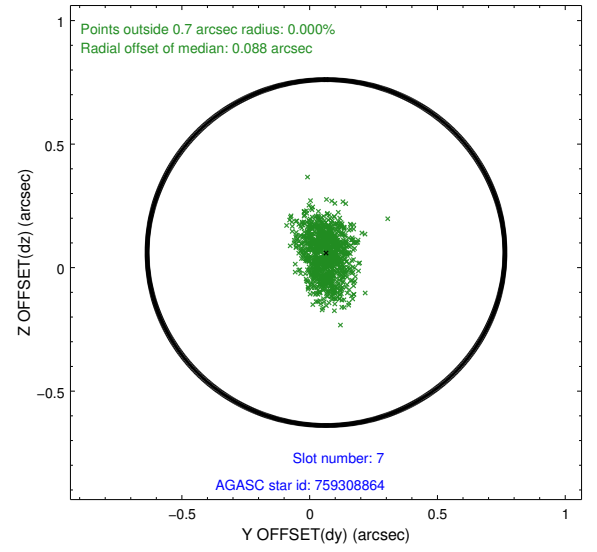
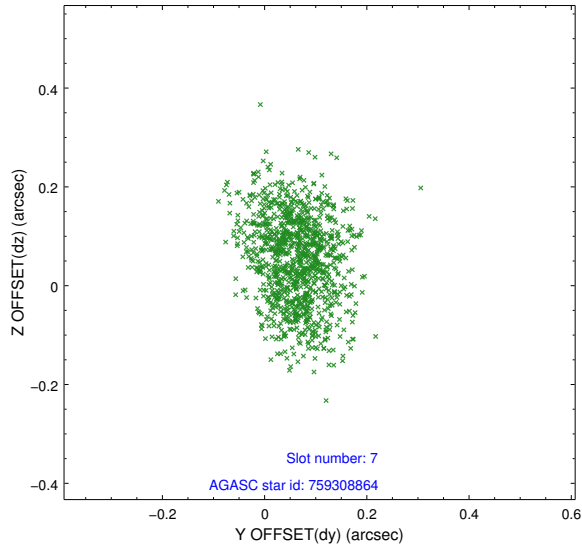
2.4.3 Slot 5



2.4.4 Slot 6

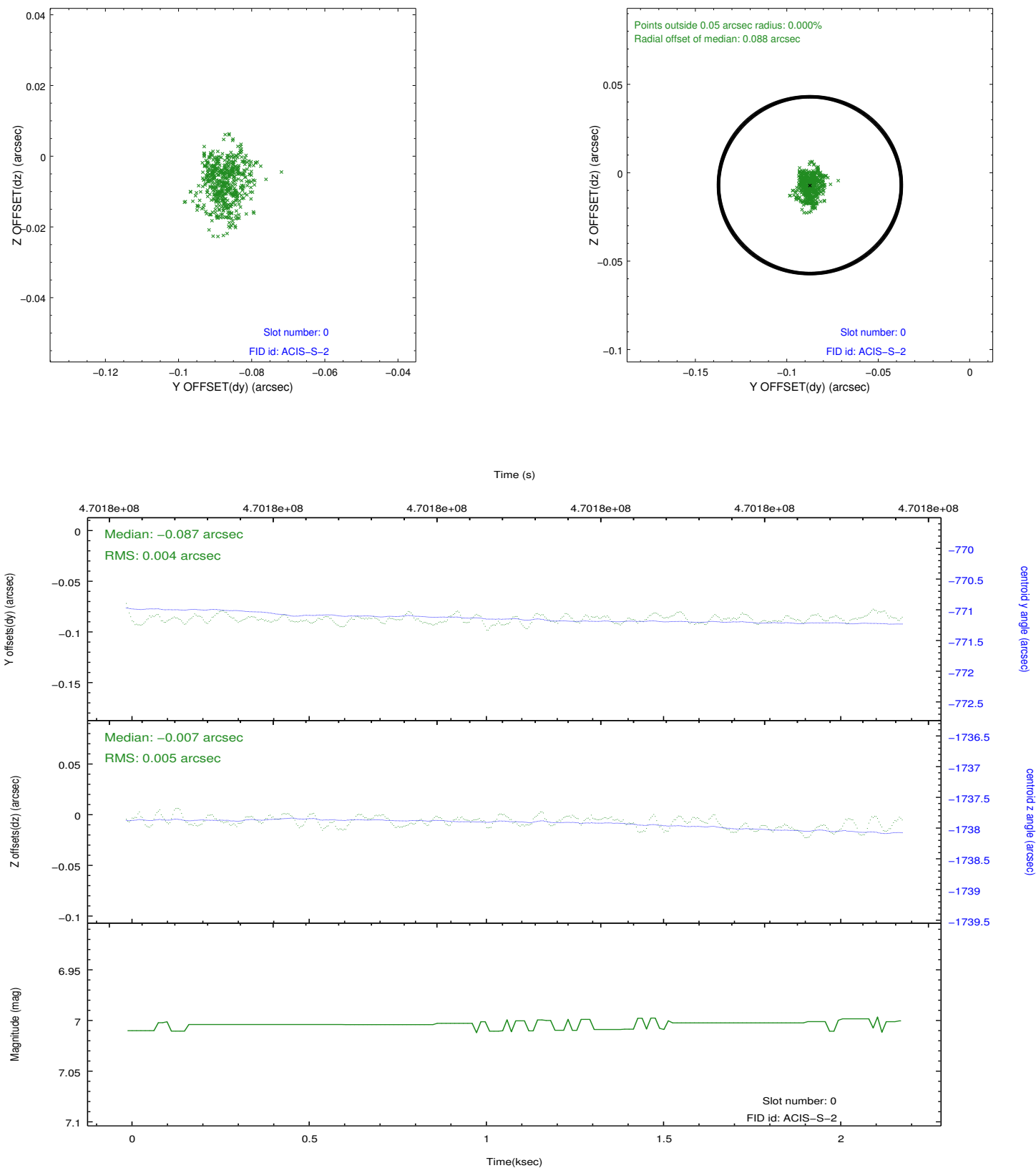


2.4.5 Slot 7

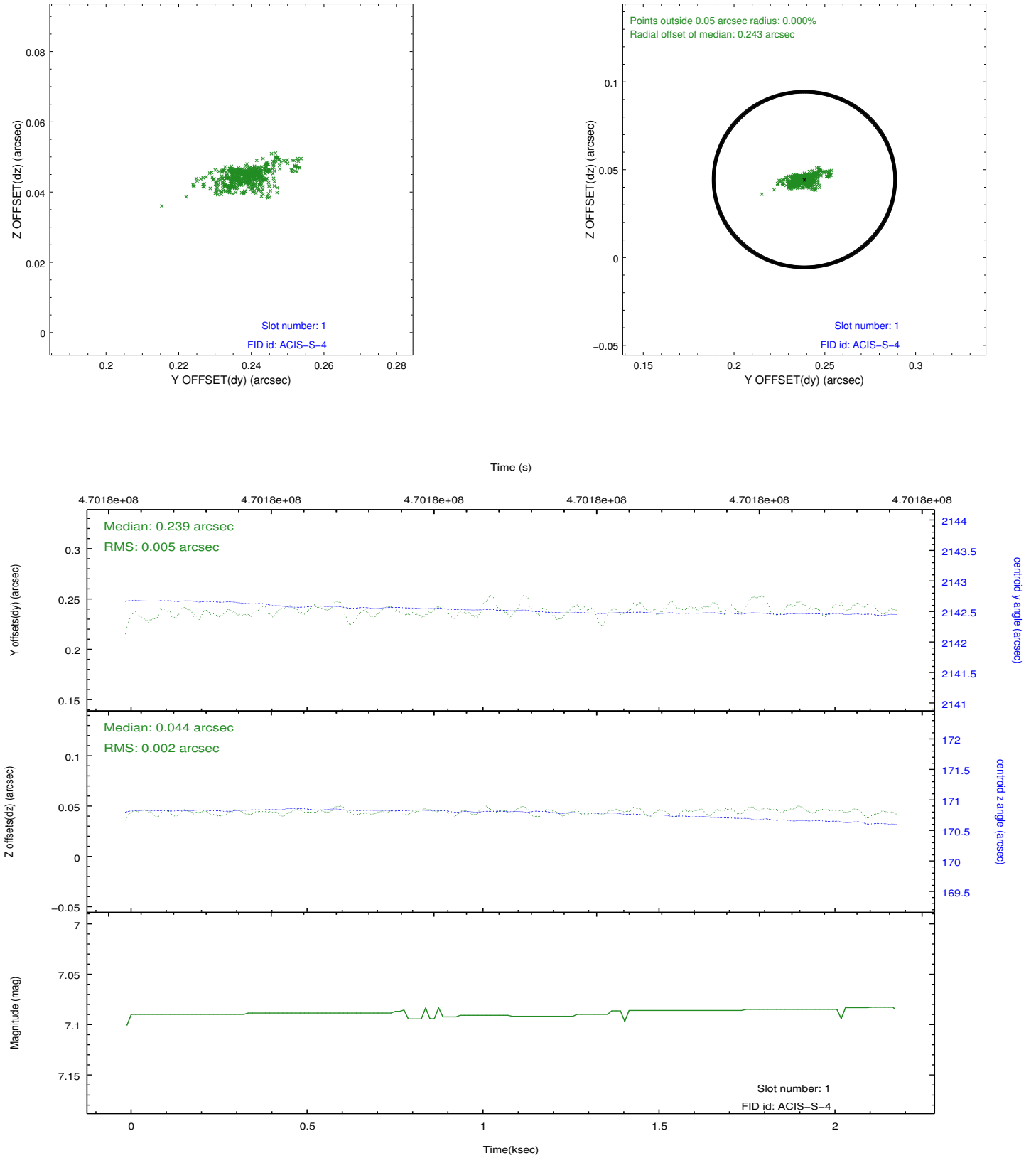


2.5 FID Slots

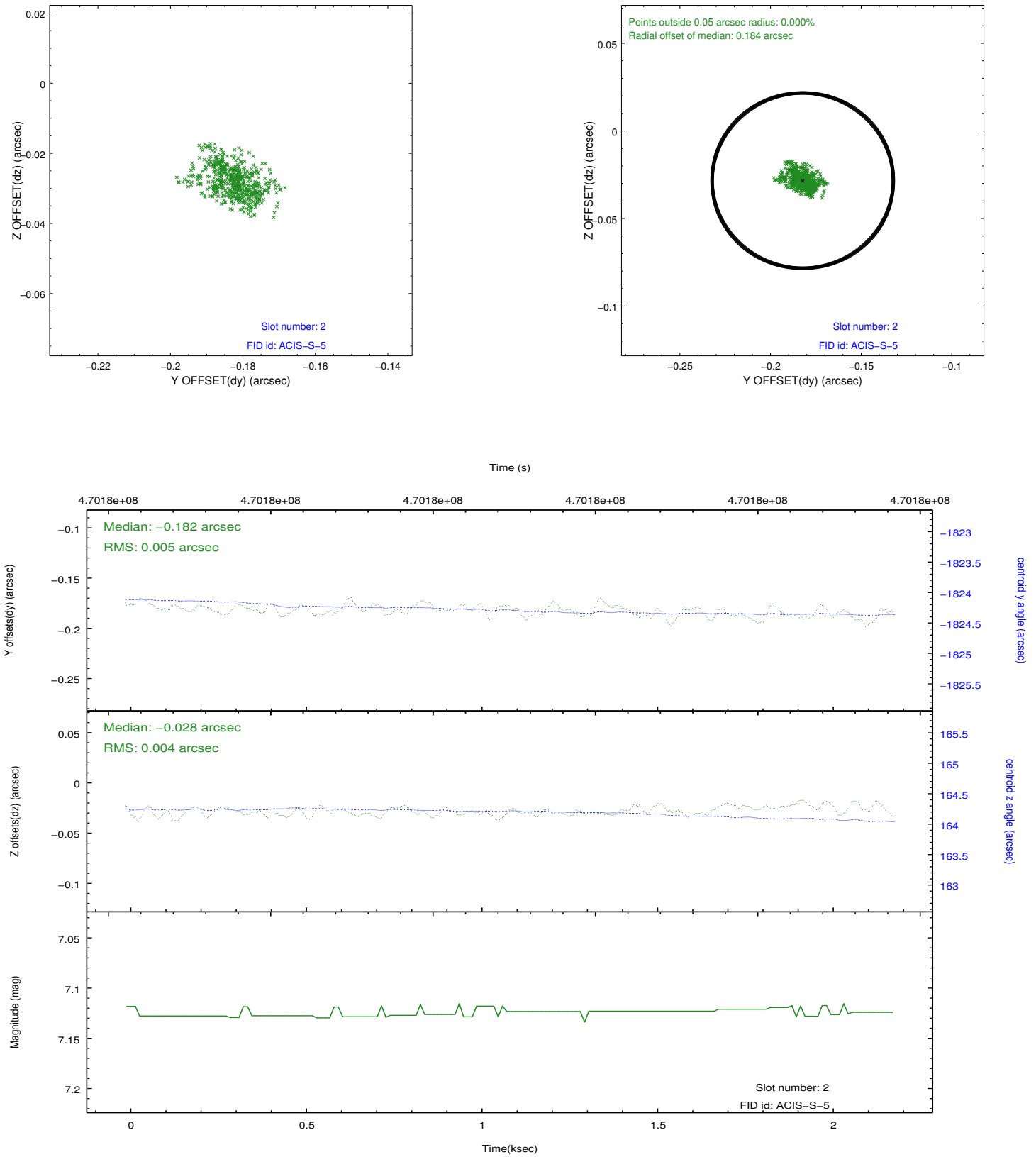
2.5.1 Slot 0



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)	2014.12.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.0933999445438

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.