

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 13646 - L2 Version 2
Chandra X-Ray Center

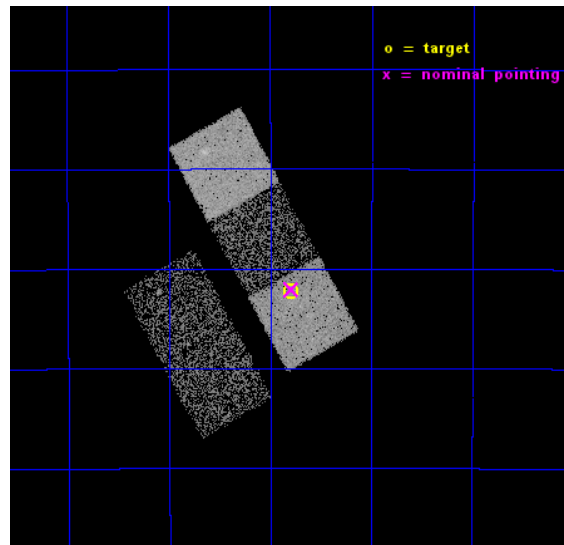
L2 Processing Date : Nov 28 2014

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1 Front

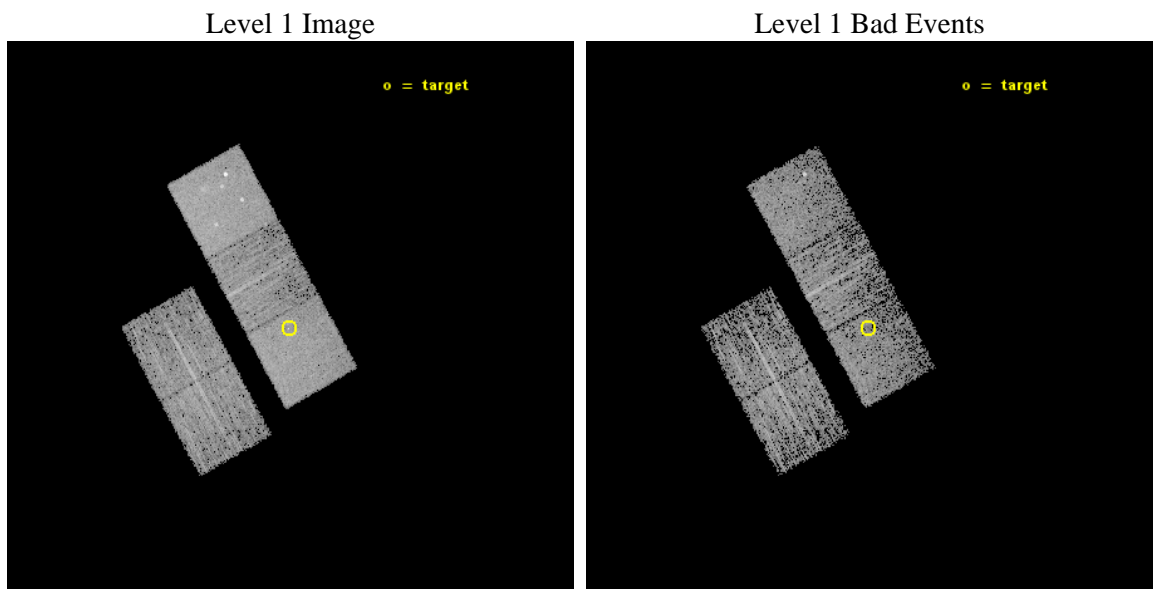
seq_num	200800	Sequence number
obs_id	13646	Observation id
title	LIVING WITH A RED DWARF: MAGNETIC ACTIVITY, XUV IRRADIANCES OF dM STARS - EXOPLANET ATMOSPHERES AND ENVIRONMENT IMPACTS	Proposal titl
observer	Dr. Edward Guinan	Principal investigator
object	GJ 191	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	77.949792	Observer's specified target RA [deg]
dec_targ	-45.0375	Observer's specified target Dec [deg]
ra_nom	77.947666402232	Nominal RA [deg]
dec_nom	-45.034853773274	Nominal Dec [deg]
roll_nom	60.978312477583	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5067.7061037421	Sum of GTIs [s]
livetime	5001.4927927058	Livetime [s]
ontime2	5067.5419437289	Sum of GTIs [s]
ontime3	5067.5829837322	Sum of GTIs [s]
ontime5	5067.6650637388	Sum of GTIs [s]
ontime6	5064.4830235243	Sum of GTIs [s]
ontime7	5067.7061037421	Sum of GTIs [s]
l2events	41747	Number of level 2 events



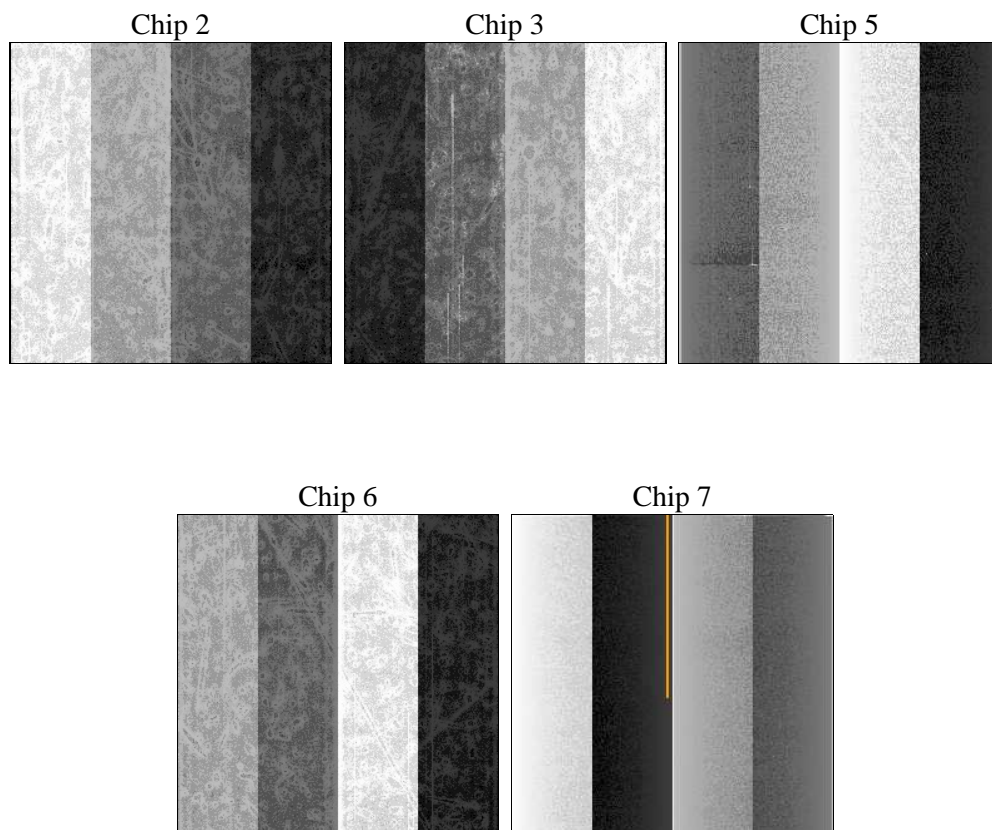
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	5067.7061037421	Sum of GTIs [s]
caldsver	4.6.4	 	ontime2	5067.5419437289	Sum of GTIs [s]
date	2014-11-28T10:18:52	Date and time of file creation	ontime3	5067.5829837322	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	5067.6650637388	Sum of GTIs [s]
			ontime6	5064.4830235243	Sum of GTIs [s]
			ontime7	5067.7061037421	Sum of GTIs [s]
			l1events	153495	Number of level 1 events

2.1.4 Events

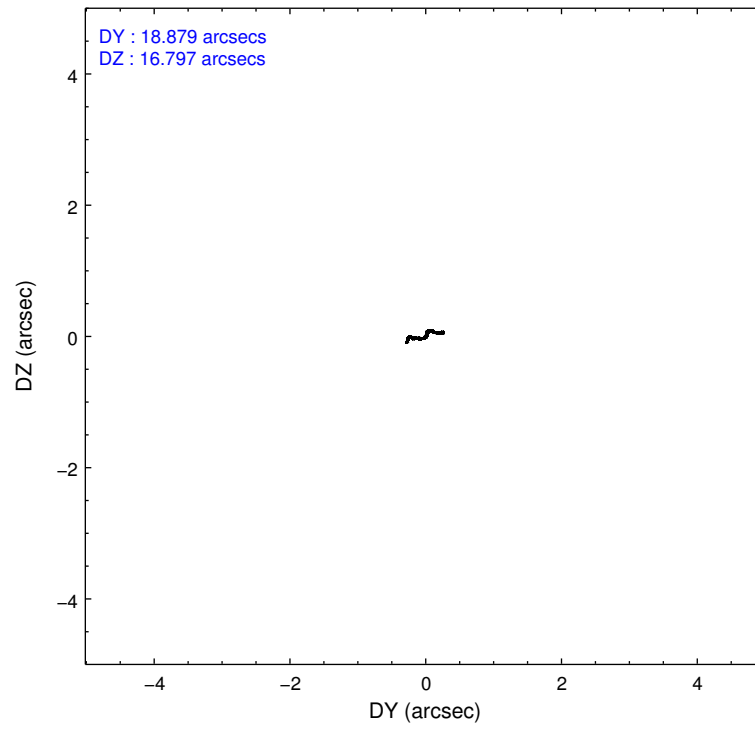
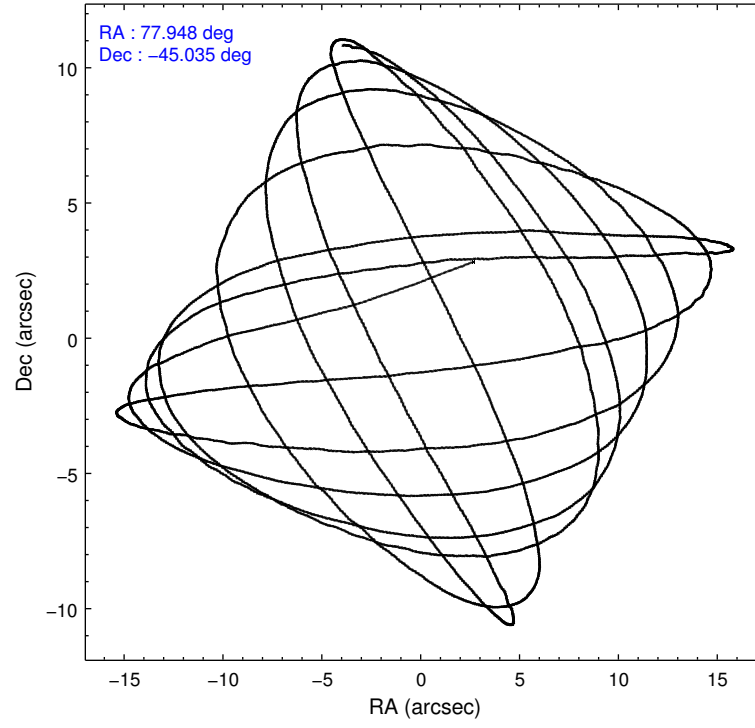
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
level 1 events	24301	25459	43773	25412	34550
rejected events	21351	22649	22194	22296	19367
rejected %	87%	88%	50%	87%	56%

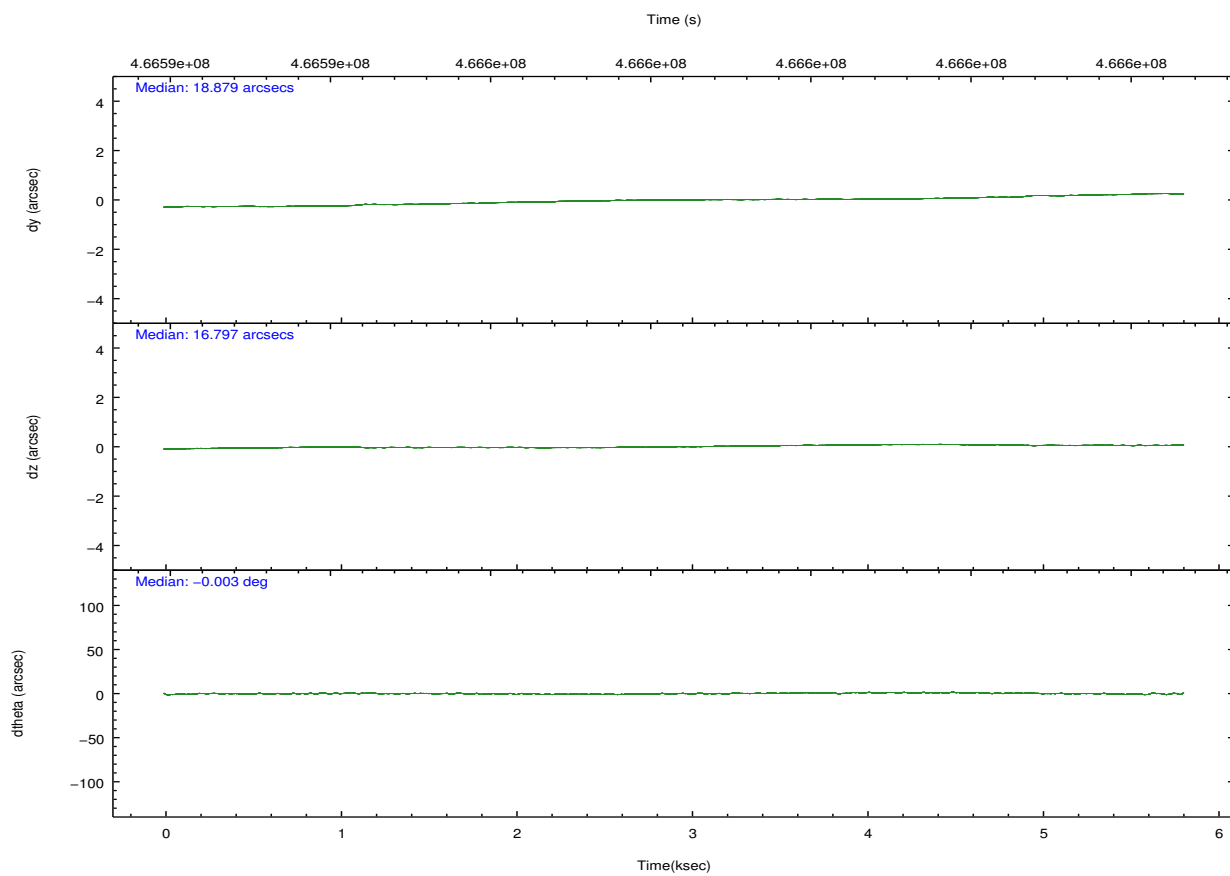
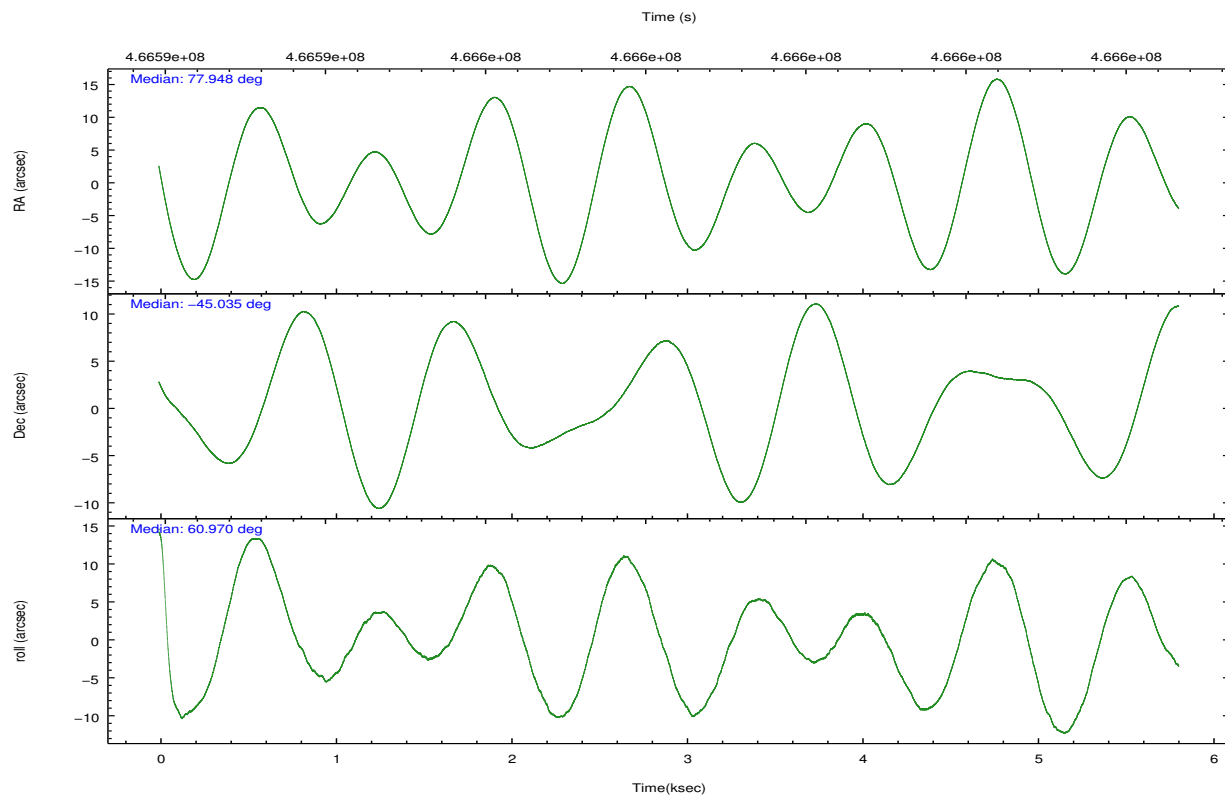
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
grade 0 events	1040	1017	2636	1091	1465
	4%	3%	6%	4%	4%
grade 1 events	24	19	81	8	43
	0%	0%	0%	0%	0%
grade 2 events	693	654	6442	699	3101
	2%	2%	14%	2%	8%
grade 3 events	327	286	798	294	1331
	1%	1%	1%	1%	3%
grade 4 events	322	288	685	328	1279
	1%	1%	1%	1%	3%
grade 5 events	1108	1261	3189	1331	3565
	4%	4%	7%	5%	10%
grade 6 events	573	570	11033	708	8027
	2%	2%	25%	2%	23%
grade 7 events	20214	21364	18909	20953	15739
	83%	83%	43%	82%	45%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23567	ACIS-23567	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	77.948938	77.94766640223239	Subarray requested	NONE	NONE
[deg] Pointing Dec	-45.062160	-45.03485377327408	Alternating exposures requested	N	N
[deg] Pointing Roll	60.822550	60.97831247758252	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	466594046.184000	466592794.43843			
Observation start date	2012-10-14T09:26:19	2012-10-14T09:06:34			
[s] Observation end time (MET)	466599046.184000	466599963.80132			
Observation end date	2012-10-14T10:49:39	2012-10-14T11:06:03			
Read mode	TIMED	TIMED			

2.3 Aspect



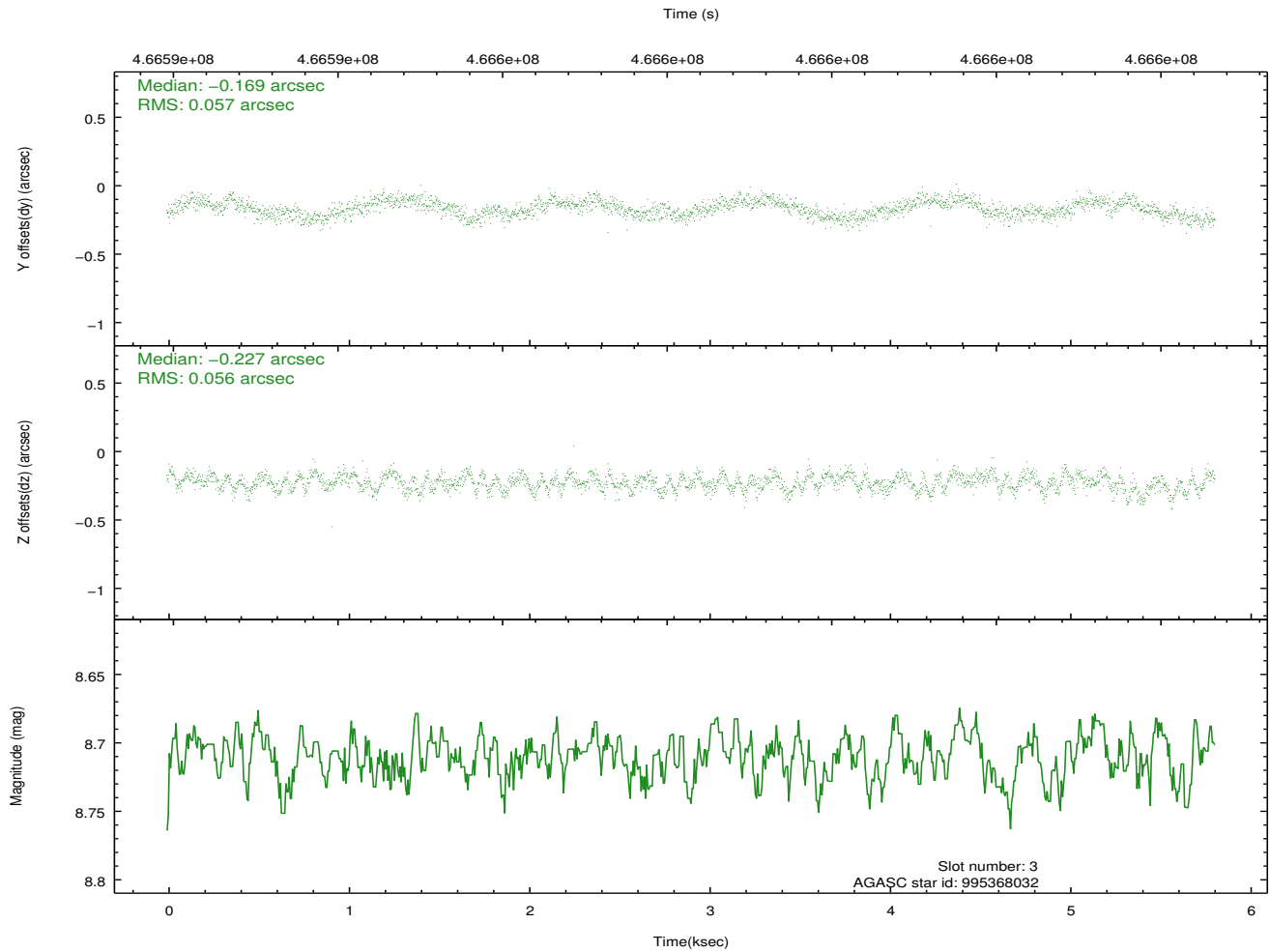
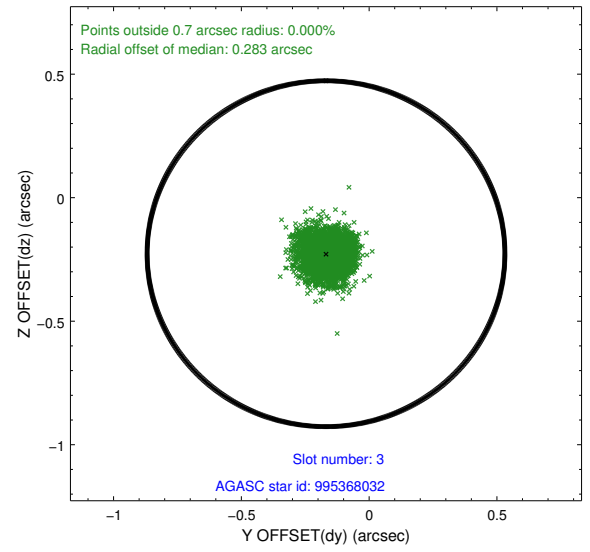
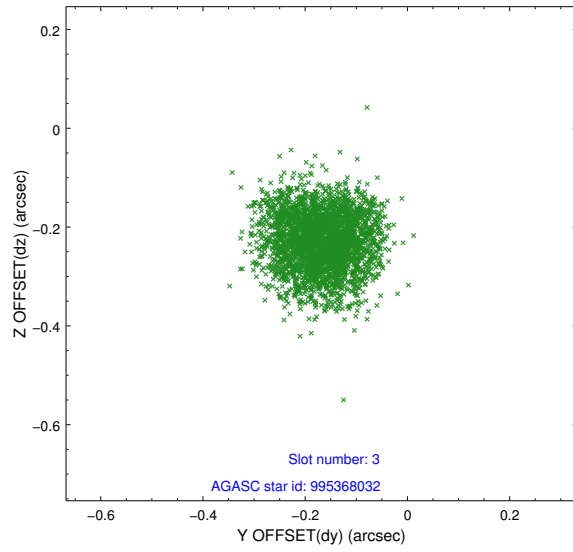


Slot Statistics

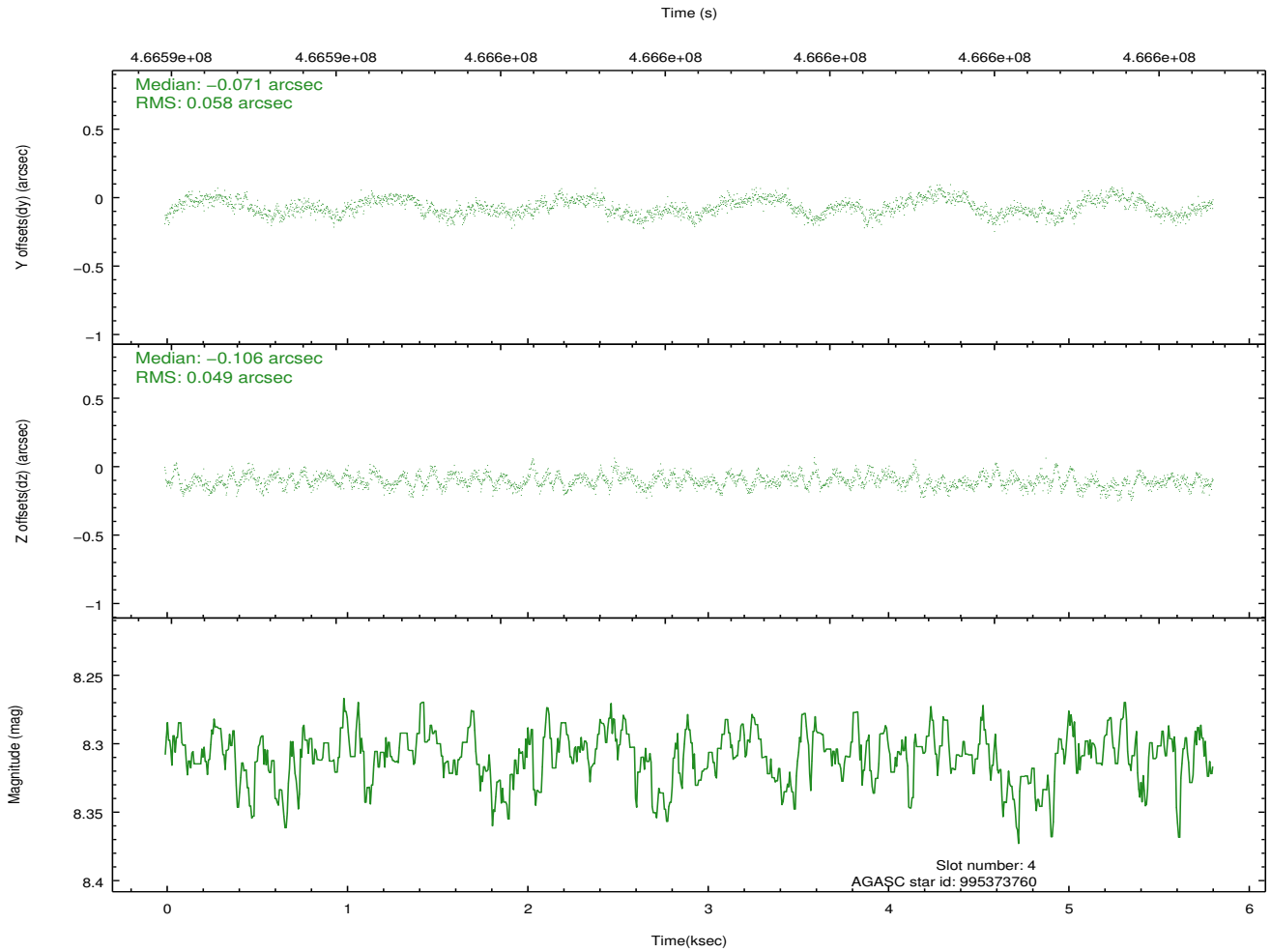
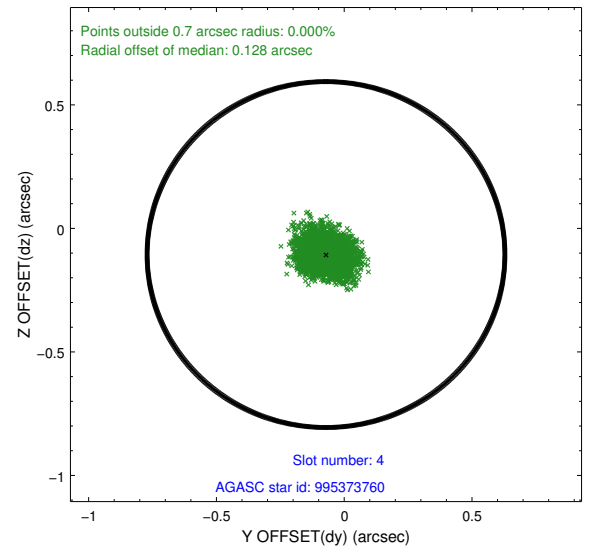
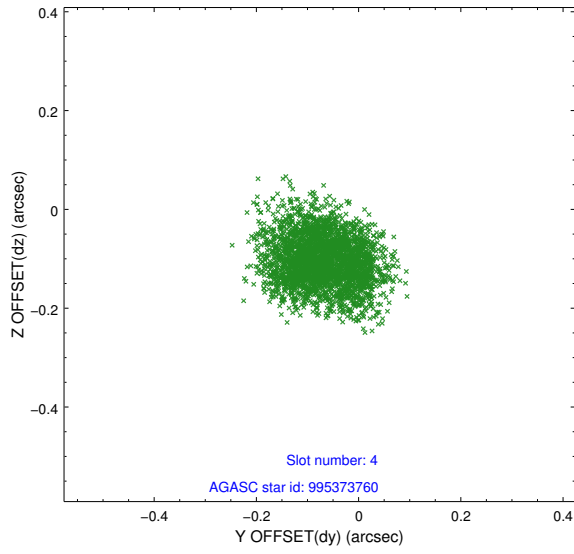
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.98	1418	-0.112	-0.044	0.008	0.014	0.000000	0.000000	-772.05	-1738.22
1	FID		ACIS-S-4	7.05	1418	0.304	0.066	0.007	0.012	0.000000	0.000000	2141.19	169.28
2	FID		ACIS-S-5	7.09	1418	-0.224	-0.012	0.007	0.014	0.000000	0.000000	-1823.67	164.08
3	GUIDE	used	995368032	8.71	2835	-0.169	-0.227	0.086	0.133	77.679596	-44.571782	1206.24	1463.26
4	GUIDE	used	995373760	8.31	2834	-0.071	-0.106	0.083	0.128	77.456283	-44.874180	-24.71	1425.89
5	GUIDE	used	1058803776	6.48	2836	0.016	0.205	0.043	0.069	77.797996	-45.577588	-1805.40	-572.21
6	GUIDE	used	1058806384	9.13	2830	0.371	0.329	0.102	0.171	78.307326	-45.516544	-988.93	-1587.75
7	GUIDE	used	995371920	9.21	2833	-0.137	-0.195	0.135	0.210	77.837290	-44.956576	192.39	433.01

2.4 Star Slots

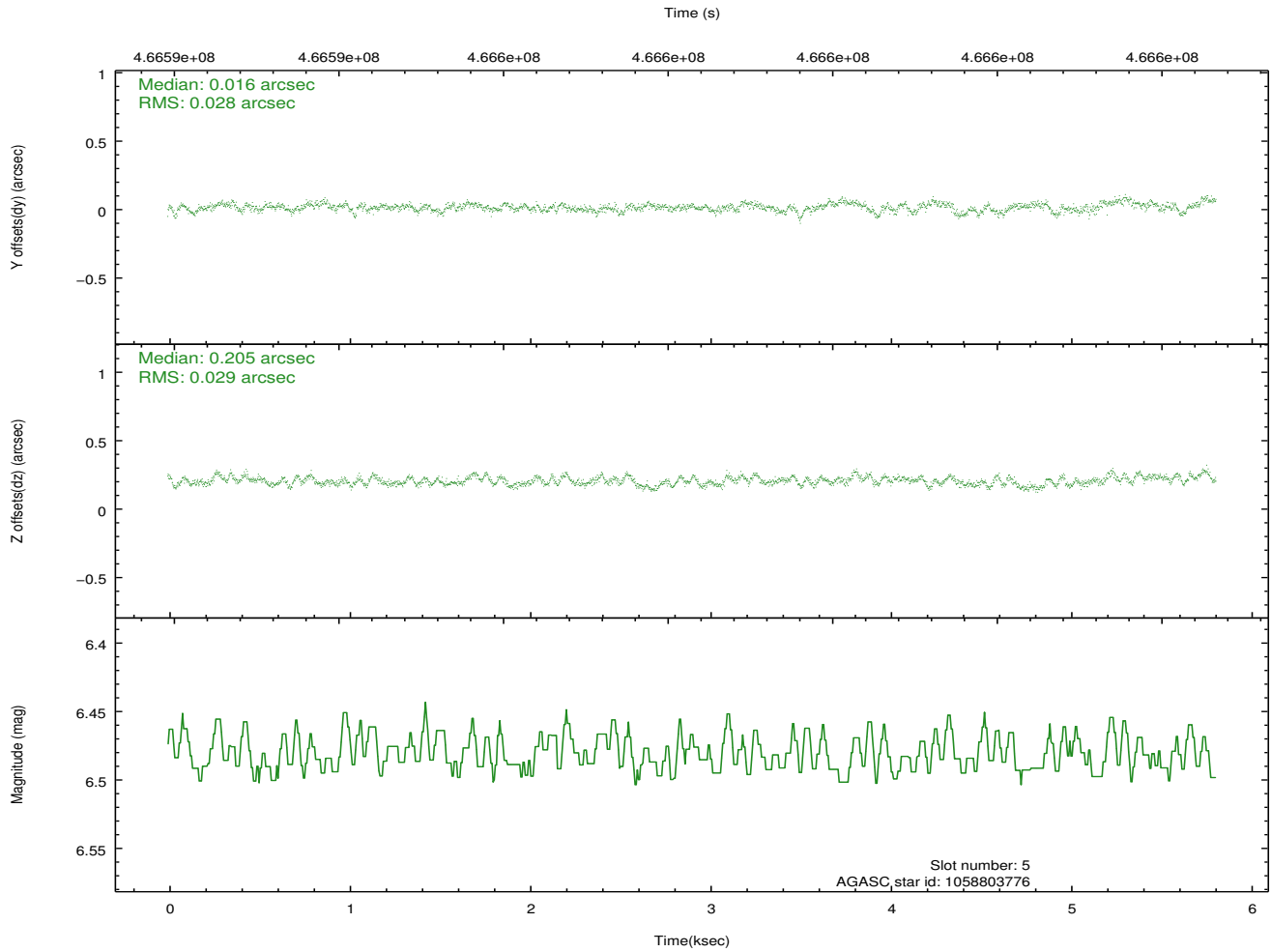
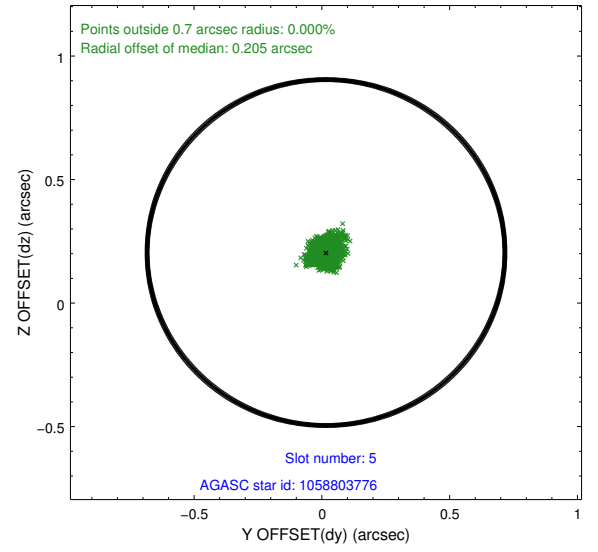
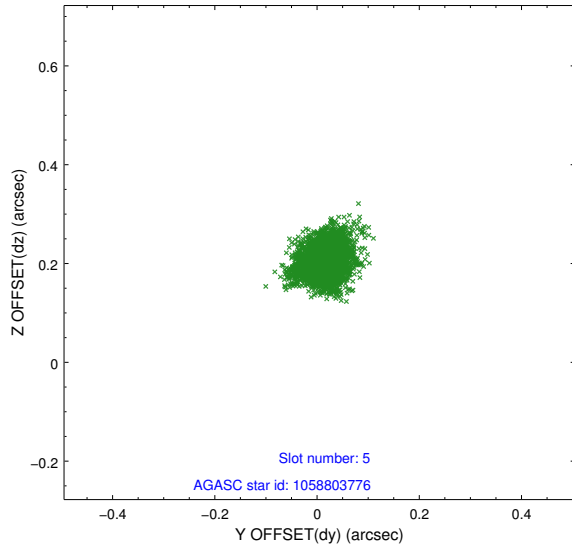
2.4.1 Slot 3



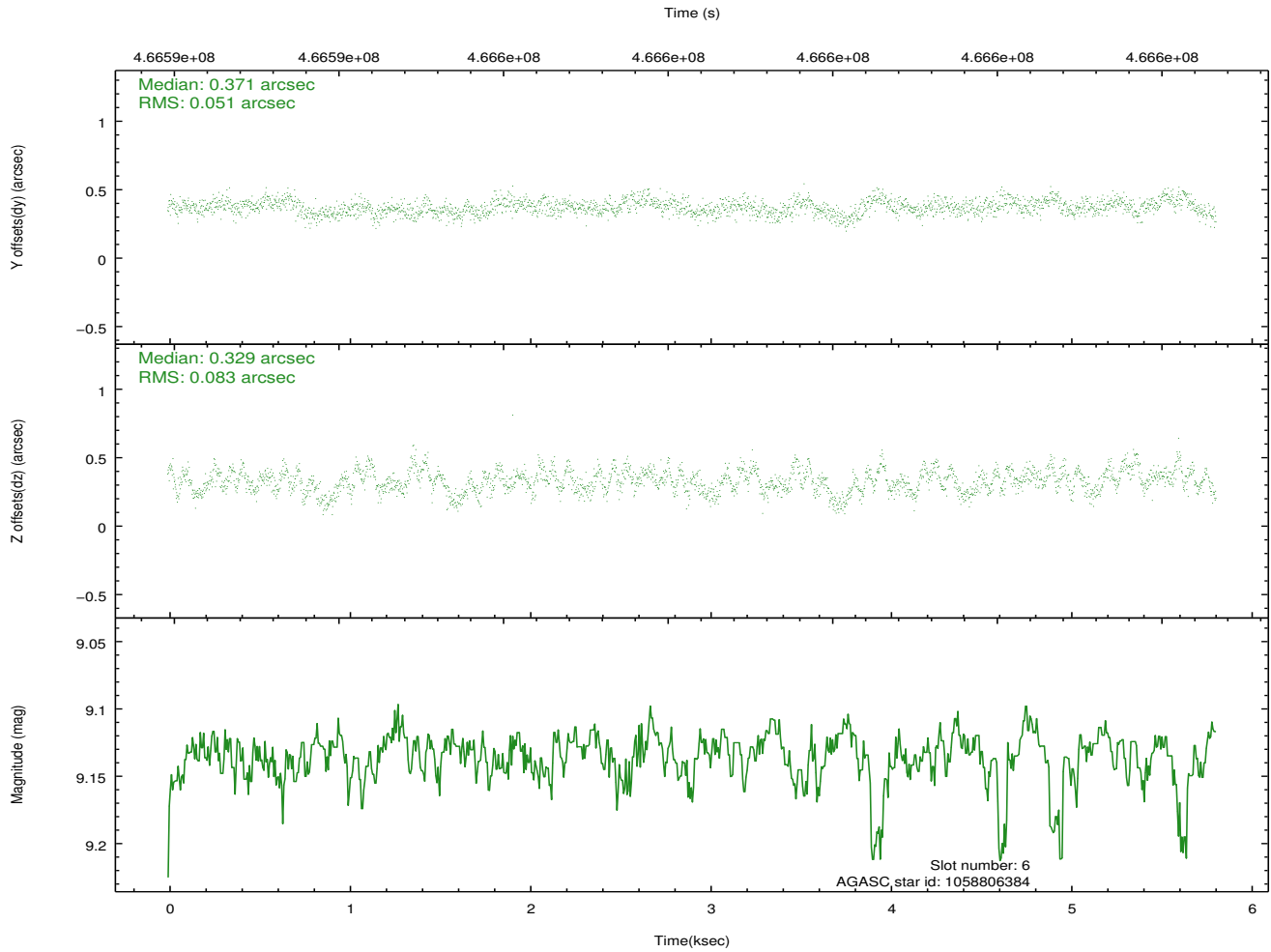
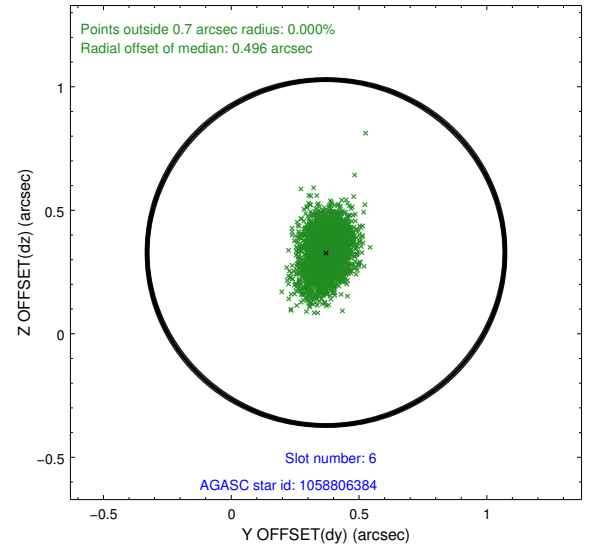
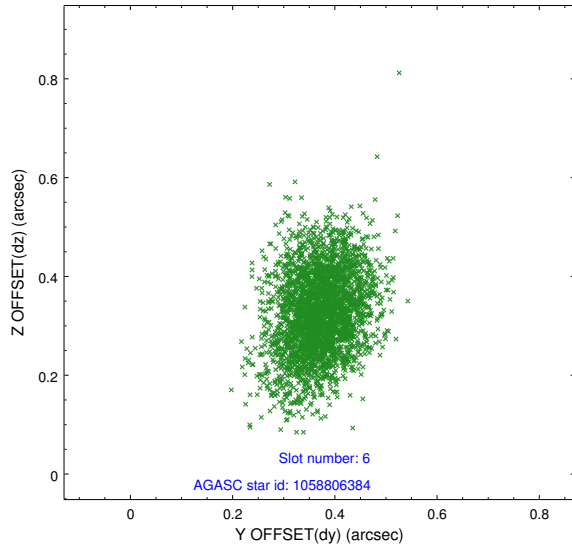
2.4.2 Slot 4



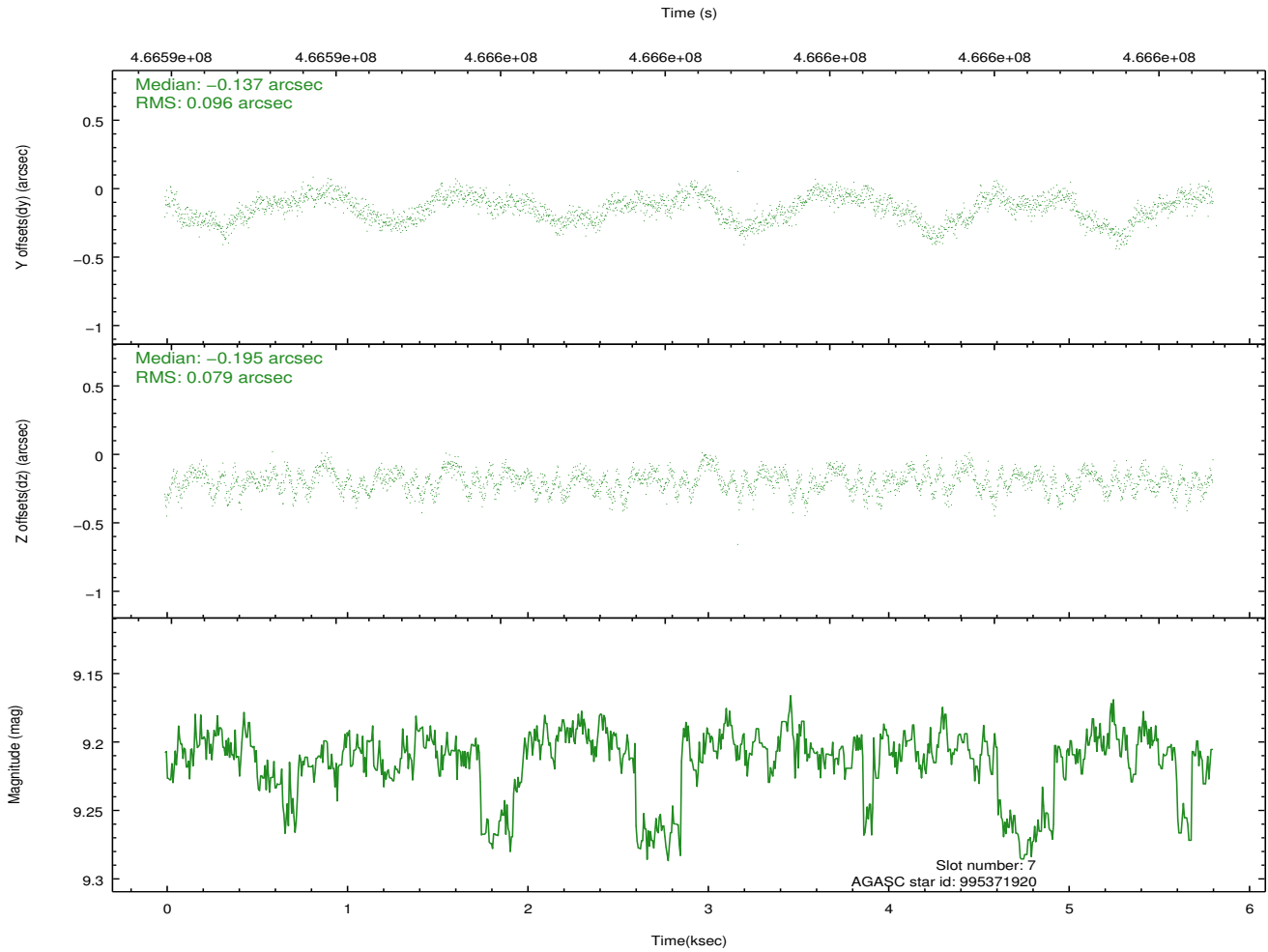
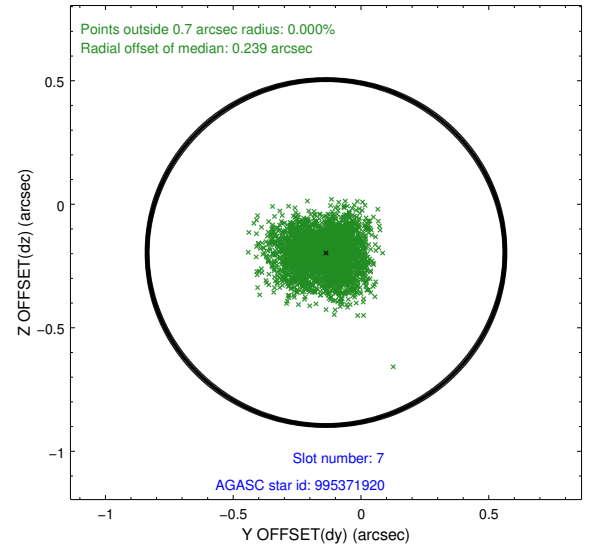
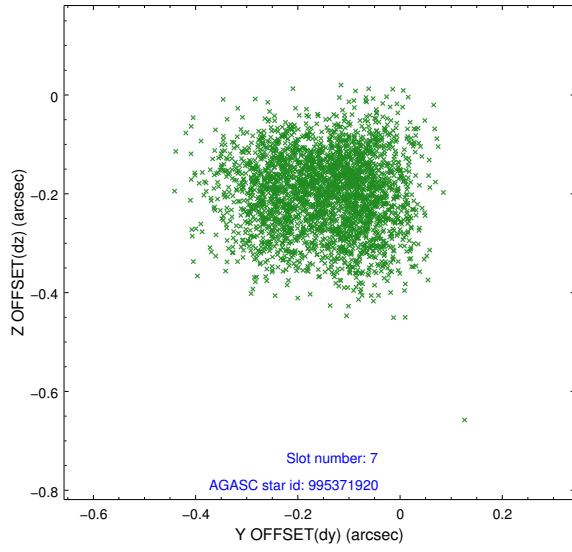
2.4.3 Slot 5



2.4.4 Slot 6

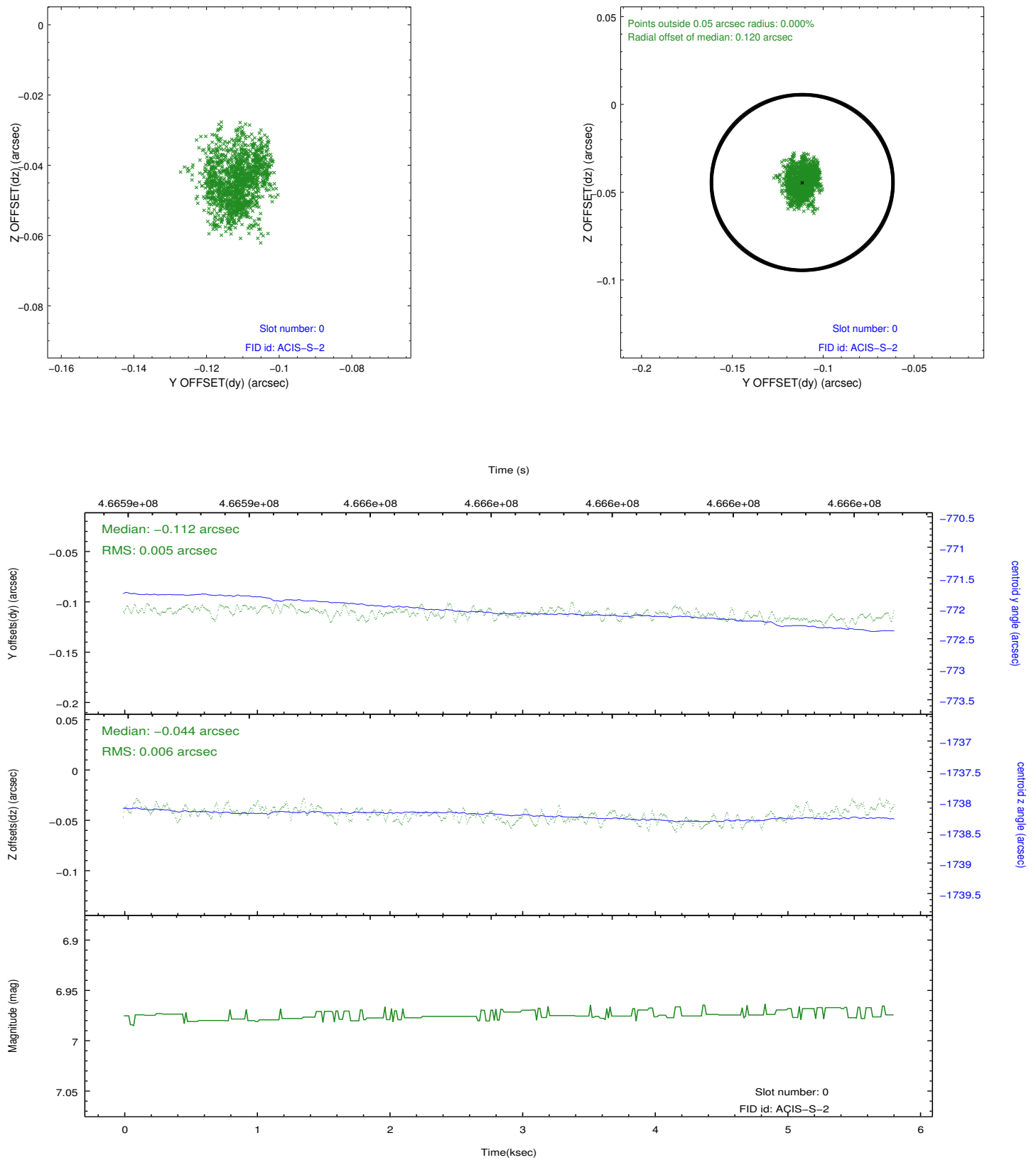


2.4.5 Slot 7

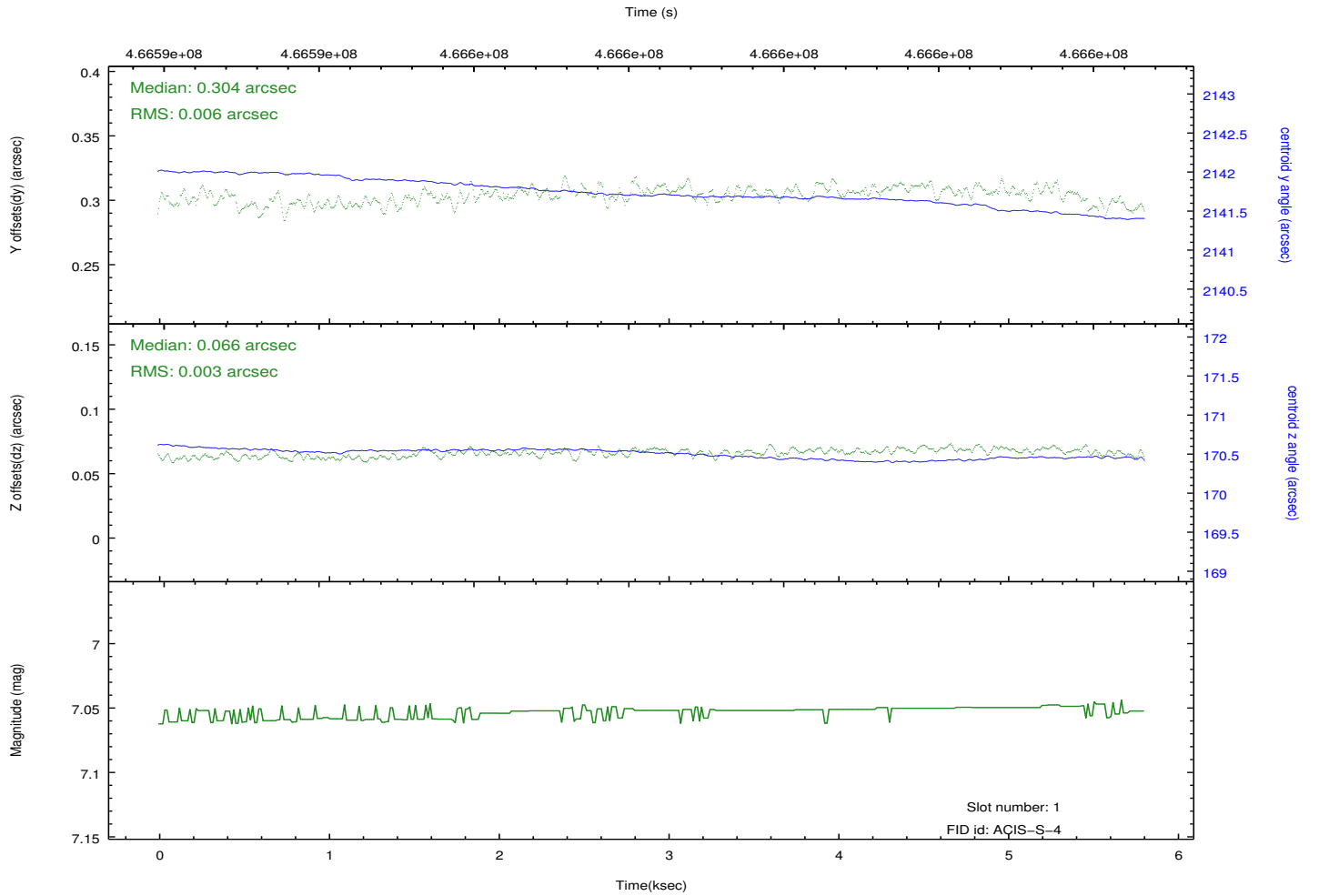
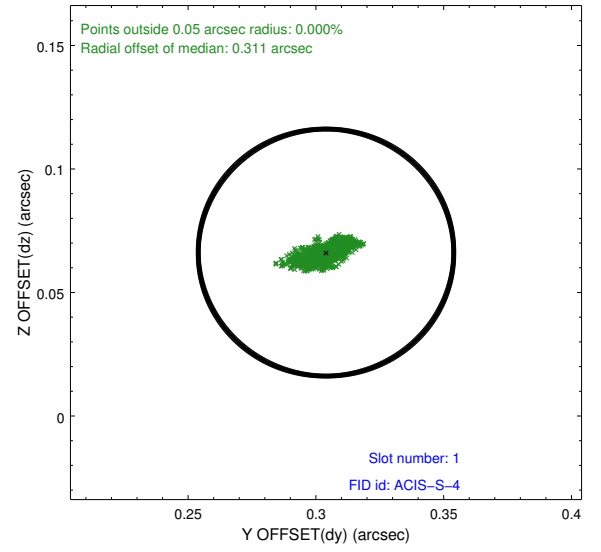
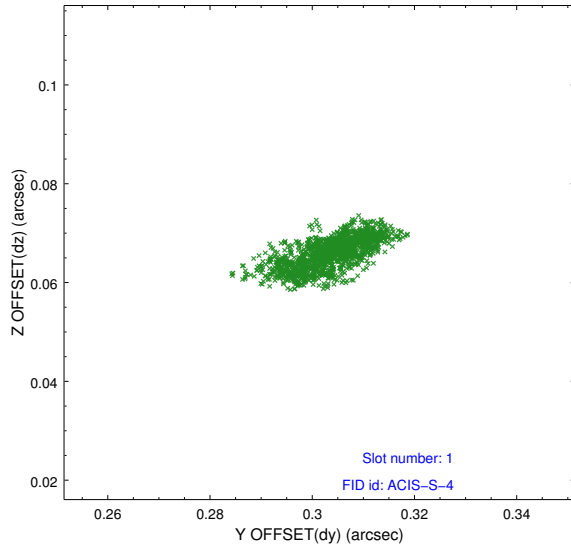


2.5 FID Slots

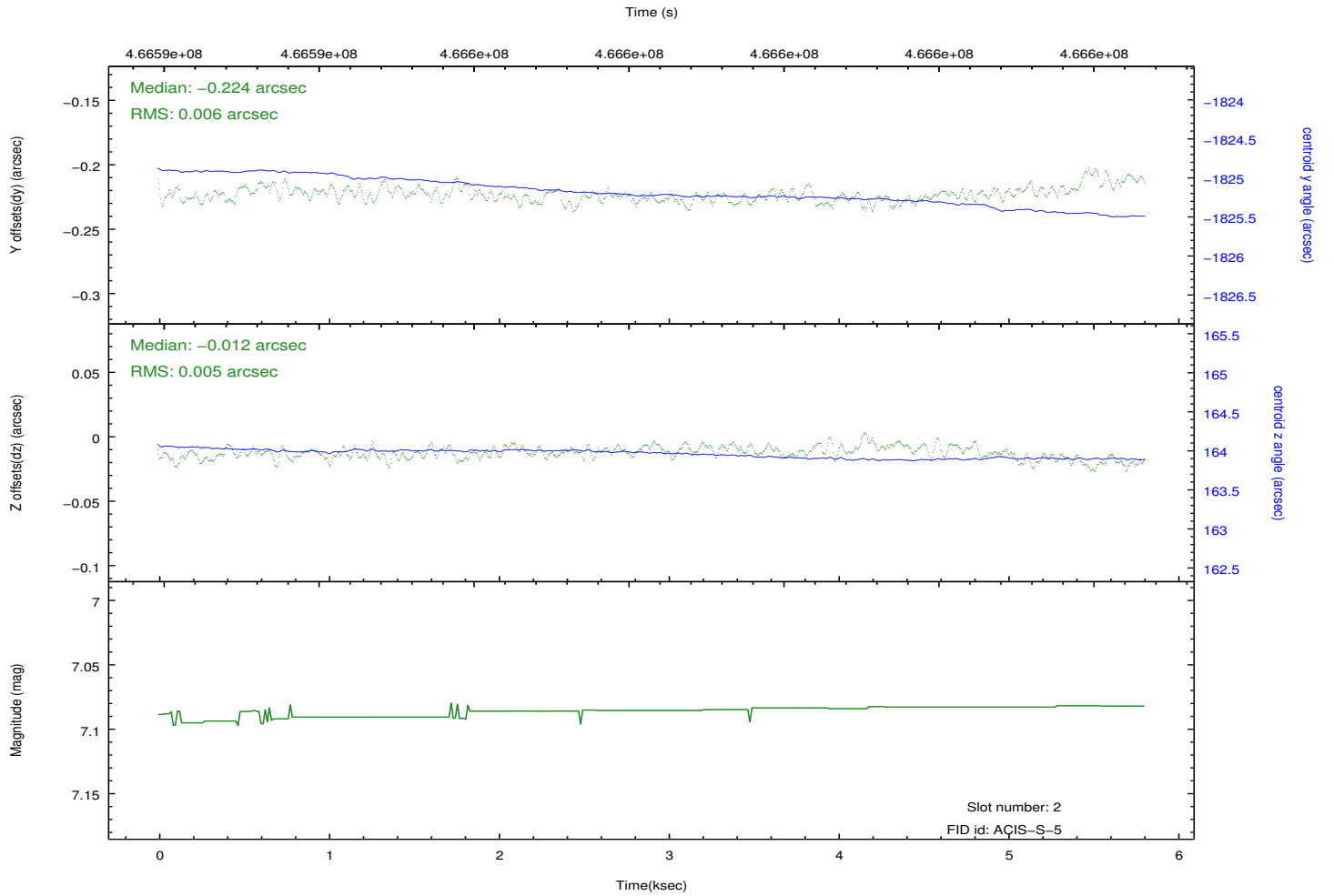
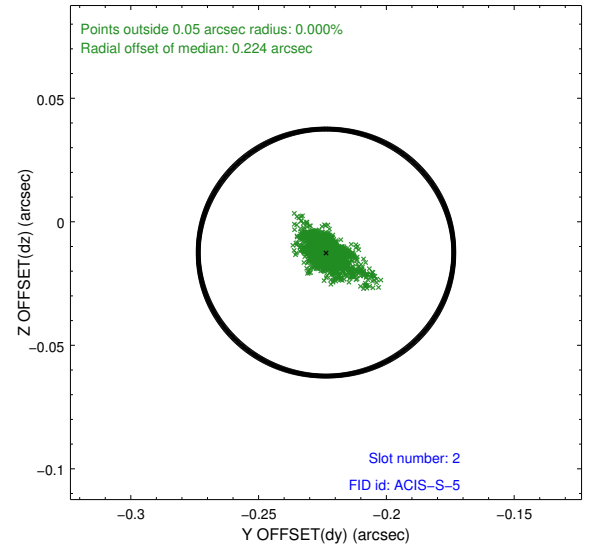
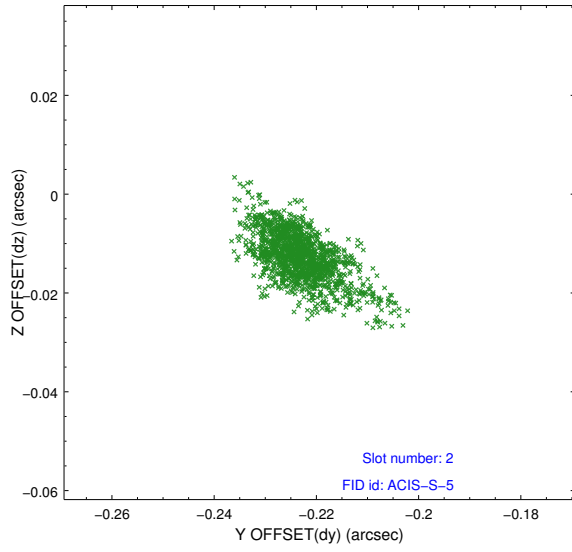
2.5.1 Slot 0



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	5.0677061037421

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.