

V&V Reference Report

L2 ASCDS Version : 8.5.1

Observation 15354 - L2 Version 2
Chandra X-Ray Center

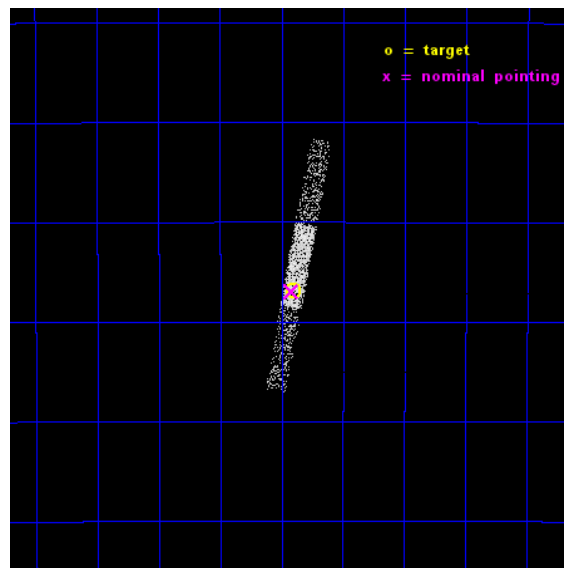
L2 Processing Date : Nov 30 2014

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

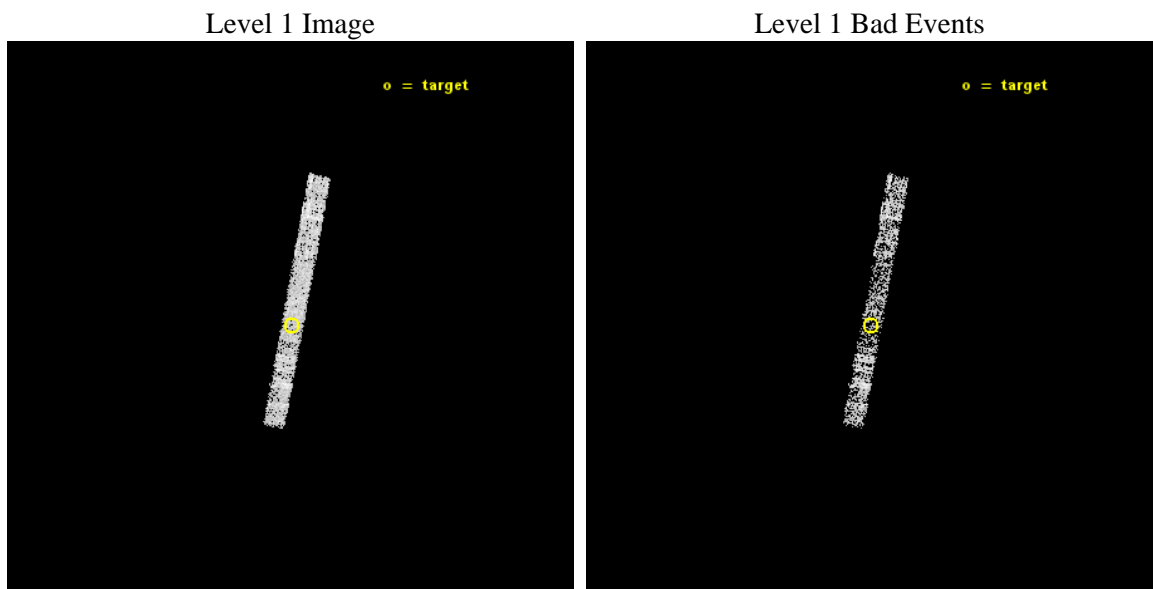
seq_num	702914	Sequence number
obs_id	15354	Observation id
title	Clarifying the Nature of Weak-Line Quasars with Chandra Spectroscopy and Snapshots	Proposal title
observer	Professor Gordon Garmire	Principal investigator
object	2QZ J2154-3056	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	328.726667	Observer's specified target RA [deg]
dec_targ	-30.948417	Observer's specified target Dec [deg]
ra_nom	328.72980169028	Nominal RA [deg]
dec_nom	-30.949322814531	Nominal Dec [deg]
roll_nom	280.82989612862	Nominal Roll [deg]
revision	2	Processing version of data
ontime	2592.4483924508	Sum of GTIs [s]
livetime	2479.3882865826	Livetime [s]
ontime6	2592.7256637216	Sum of GTIs [s]
ontime7	2592.4483924508	Sum of GTIs [s]
ontime8	2592.6846237183	Sum of GTIs [s]
l2events	2618	Number of level 2 events



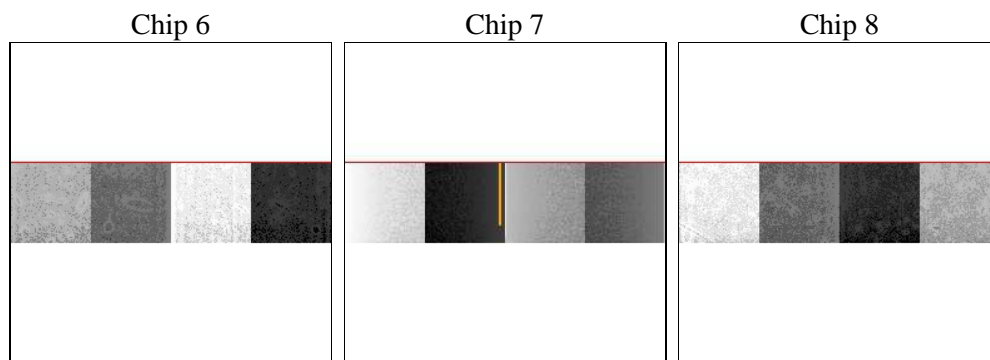
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2500.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	2592.4483924508	Sum of GTIs [s]
caldsver	4.6.4	 	ontime6	2592.7256637216	Sum of GTIs [s]
date	2014-11-30T05:12:40	Date and time of file creation	ontime7	2592.4483924508	Sum of GTIs [s]
revision	2	Processing version of data	ontime8	2592.6846237183	Sum of GTIs [s]
			l1events	12984	Number of level 1 events

2.1.4 Events

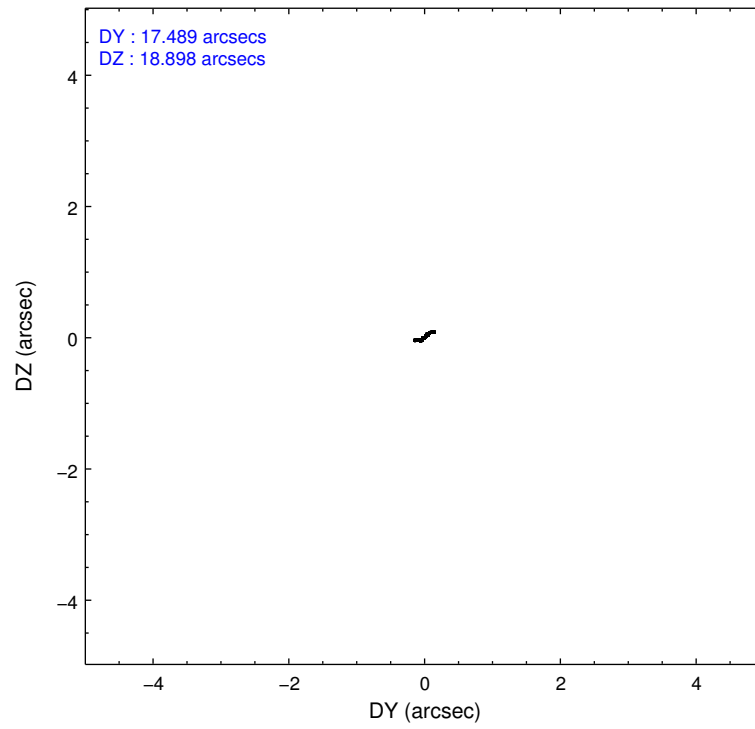
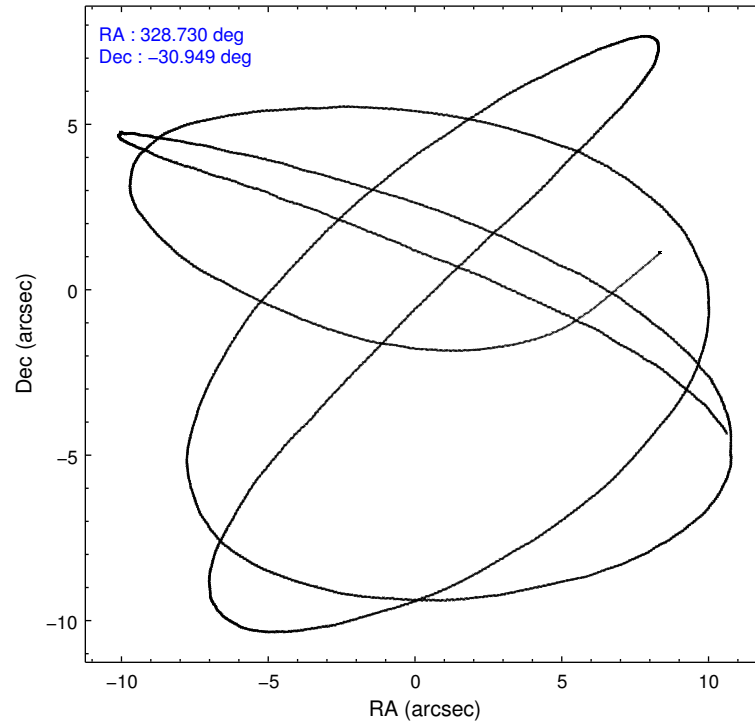
	ccd 6	ccd 7	ccd 8
level 1 events	3908	3971	5105
rejected events	3492	1980	3791
rejected %	89%	49%	74%

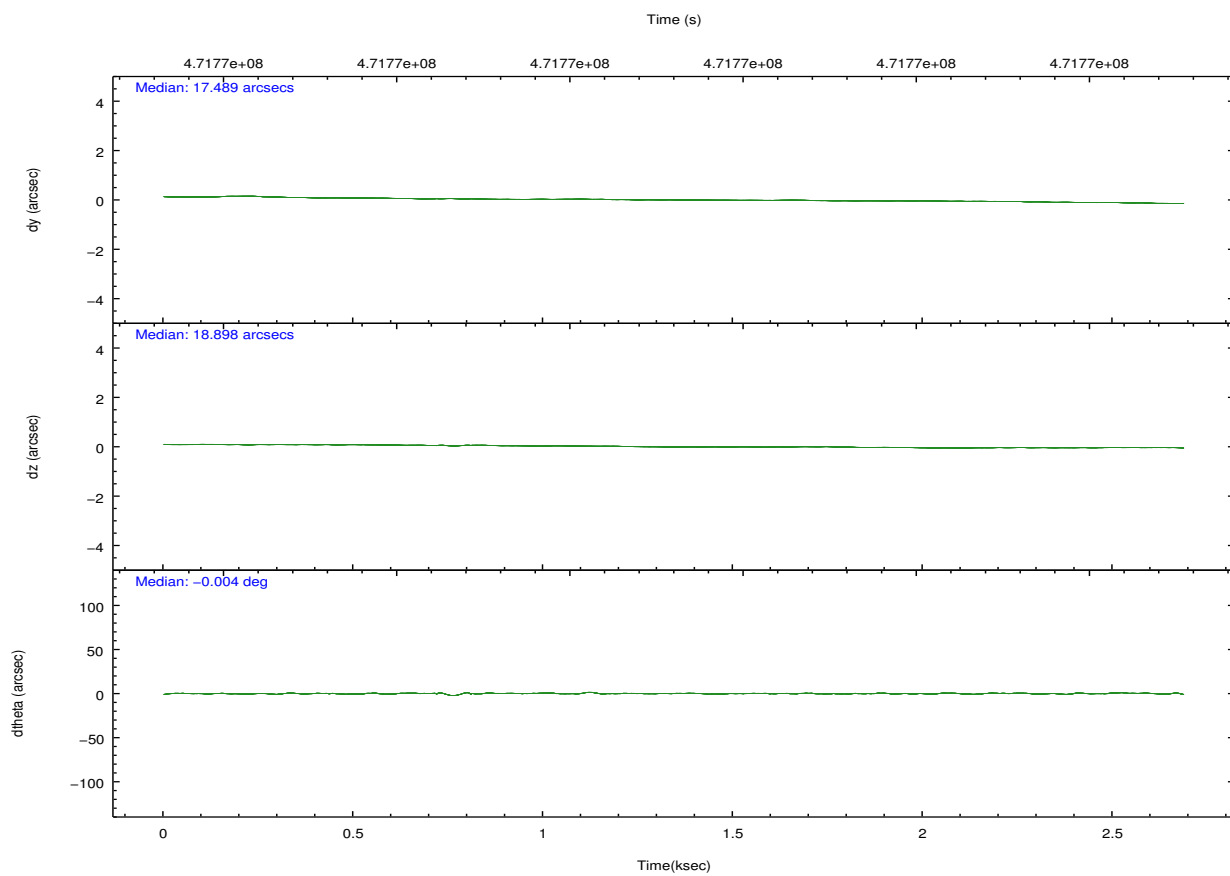
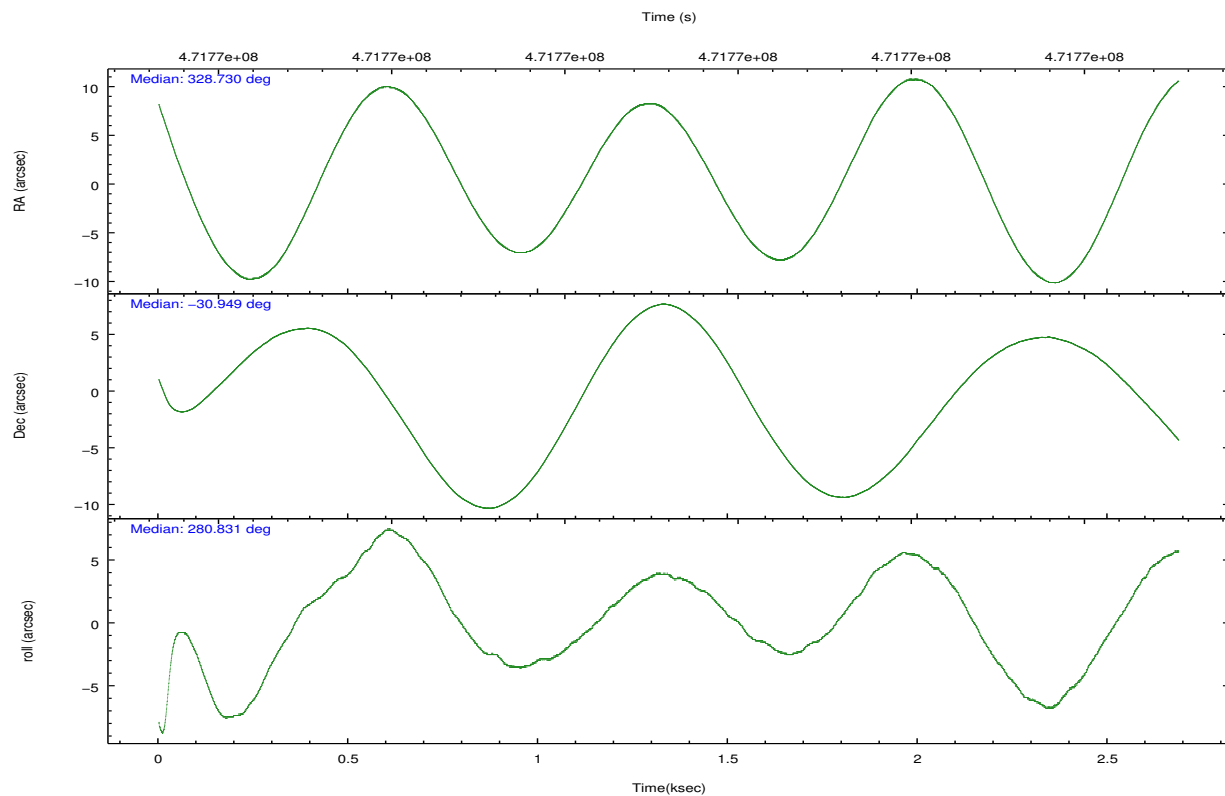
	ccd 6	ccd 7	ccd 8
grade 0 events	121	207	310
	3%	5%	6%
grade 1 events	2	5	2
	0%	0%	0%
grade 2 events	85	428	282
	2%	10%	5%
grade 3 events	64	208	154
	1%	5%	3%
grade 4 events	69	211	147
	1%	5%	2%
grade 5 events	130	419	206
	3%	10%	4%
grade 6 events	77	937	423
	1%	23%	8%
grade 7 events	3360	1556	3581
	85%	39%	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	328.708785	328.729801690281	Subarray requested	CUSTOM	1/4
[deg] Pointing Dec	-30.929087	-30.9493228145313	Subarray start row	385	385
[deg] Pointing Roll	280.662547	280.8298961286214	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	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	471771646.184000	471770422.31678			
Observation start date	2012-12-13T07:39:39	2012-12-13T07:20:22			
[s] Observation end time (MET)	471774146.184000	471774936.41702			
Observation end date	2012-12-13T08:21:19	2012-12-13T08:35:36			
Read mode	TIMED	TIMED			

2.3 Aspect



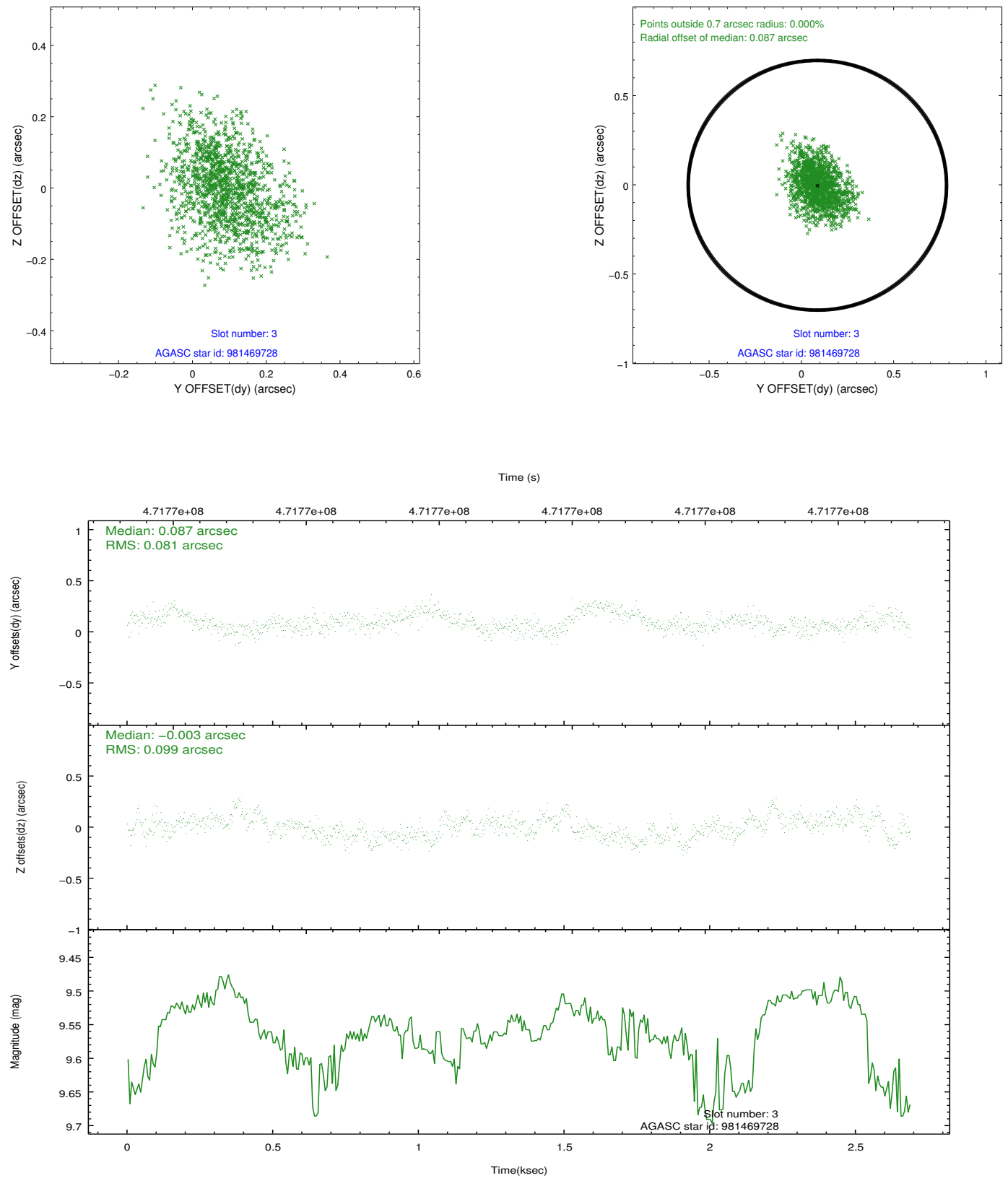


Slot Statistics

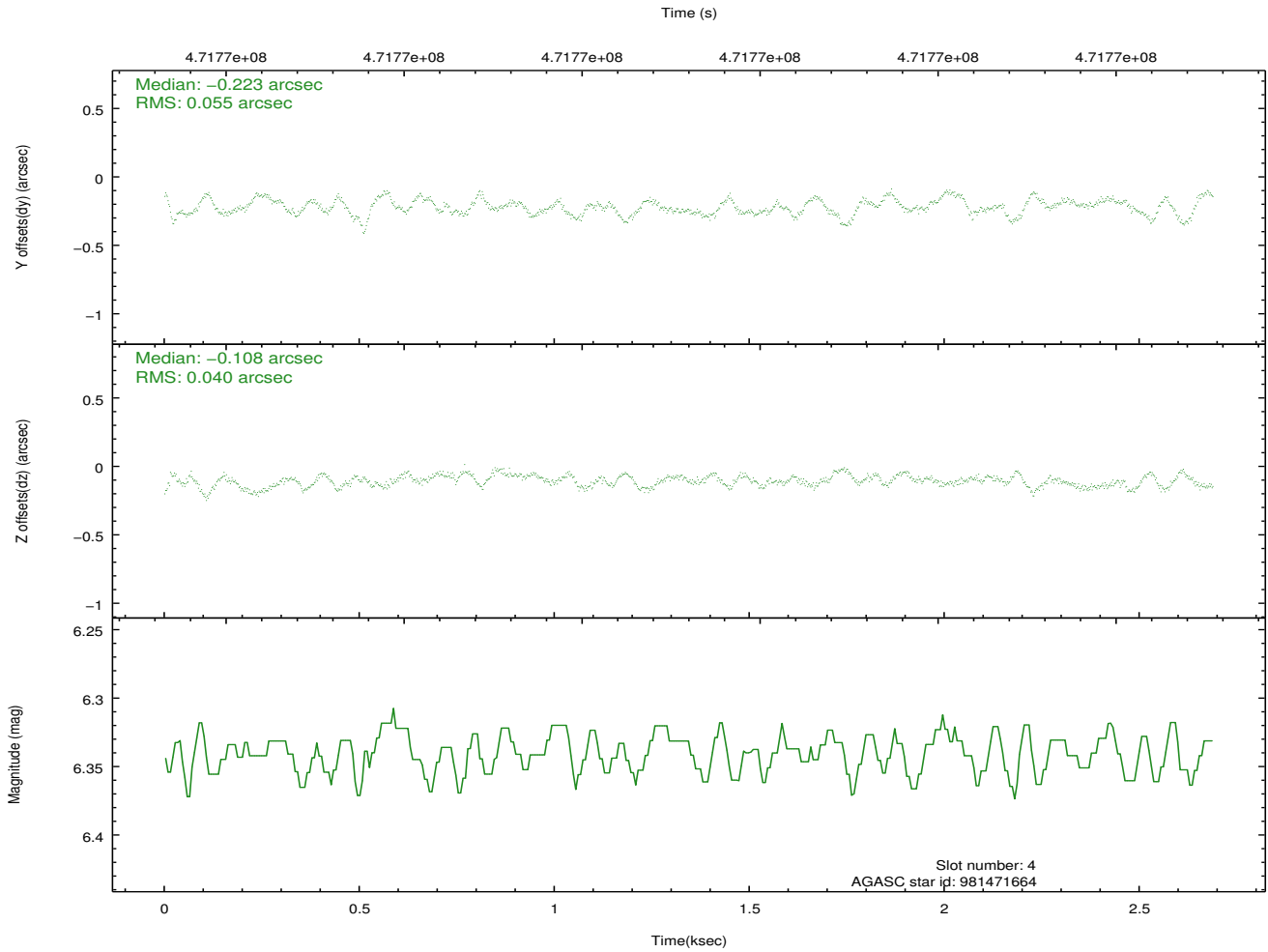
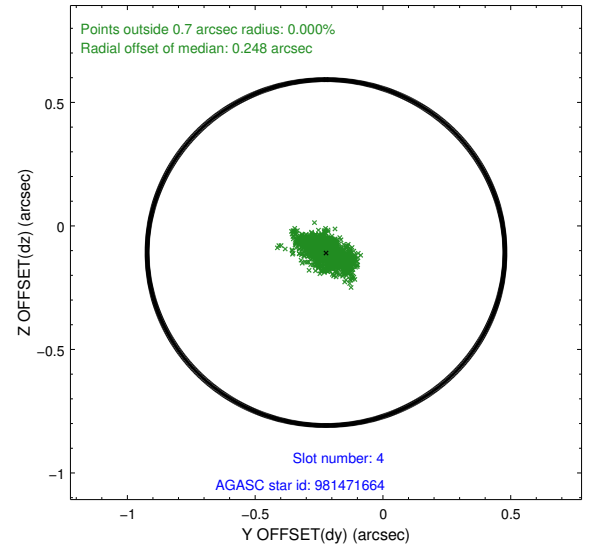
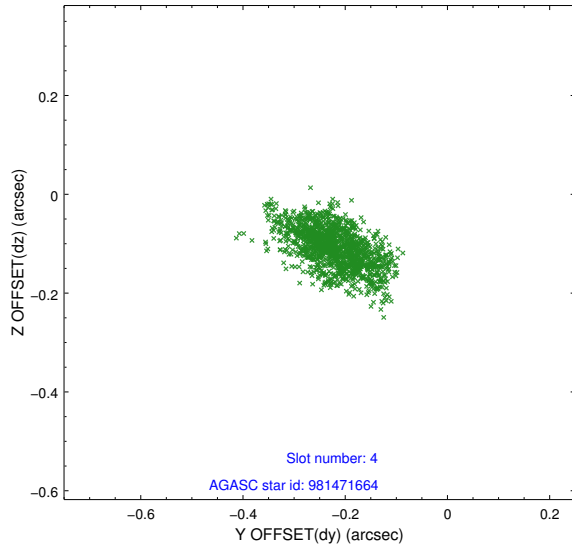
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.91	656	-0.091	-0.031	0.007	0.012	0.000000	0.000000	-770.63	-1740.42
1	FID		ACIS-S-4	7.00	656	0.206	0.053	0.007	0.012	0.000000	0.000000	2141.85	165.63
2	FID		ACIS-S-5	7.03	656	-0.145	-0.013	0.009	0.015	0.000000	0.000000	-1820.45	161.99
3	GUIDE	used	981469728	9.56	1308	0.087	-0.003	0.138	0.222	328.766049	-30.709787	-741.64	320.71
4	GUIDE	used	981471664	6.34	1312	-0.223	-0.108	0.071	0.120	328.981826	-30.605916	-985.22	1047.60
5	GUIDE	used	981475568	8.17	1311	-0.051	-0.053	0.078	0.128	328.999408	-30.923402	146.86	886.70
6	GUIDE	used	981476800	8.21	1312	0.144	0.042	0.073	0.123	329.162630	-31.389809	1892.85	1064.53
7	GUIDE	used	981475232	9.71	1310	0.040	0.124	0.118	0.196	328.383260	-30.313564	-2360.61	-583.49

2.4 Star Slots

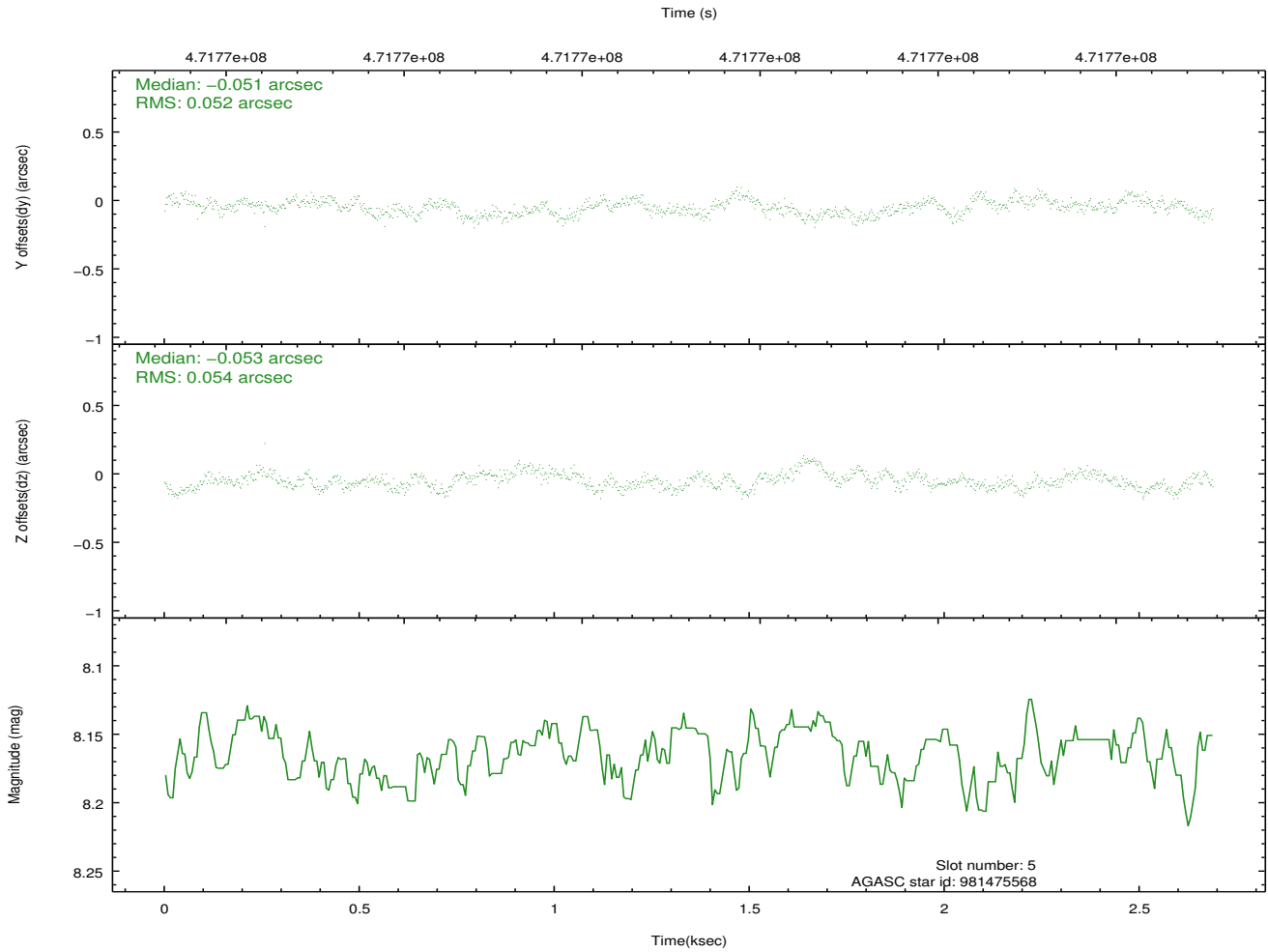
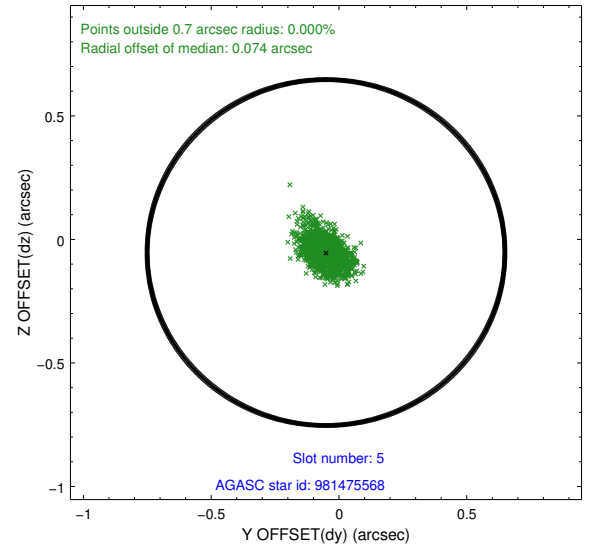
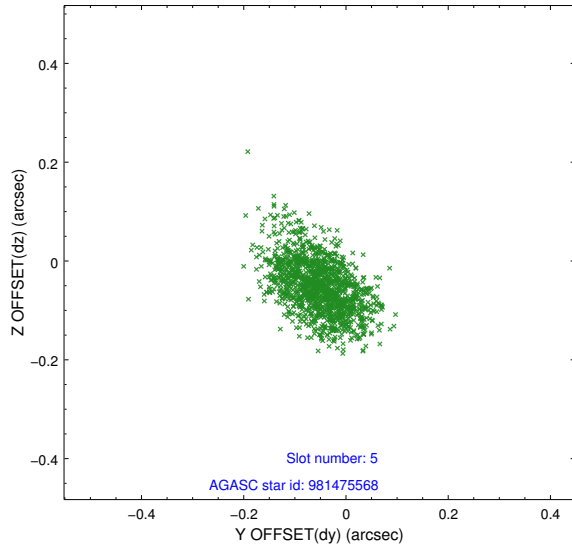
2.4.1 Slot 3



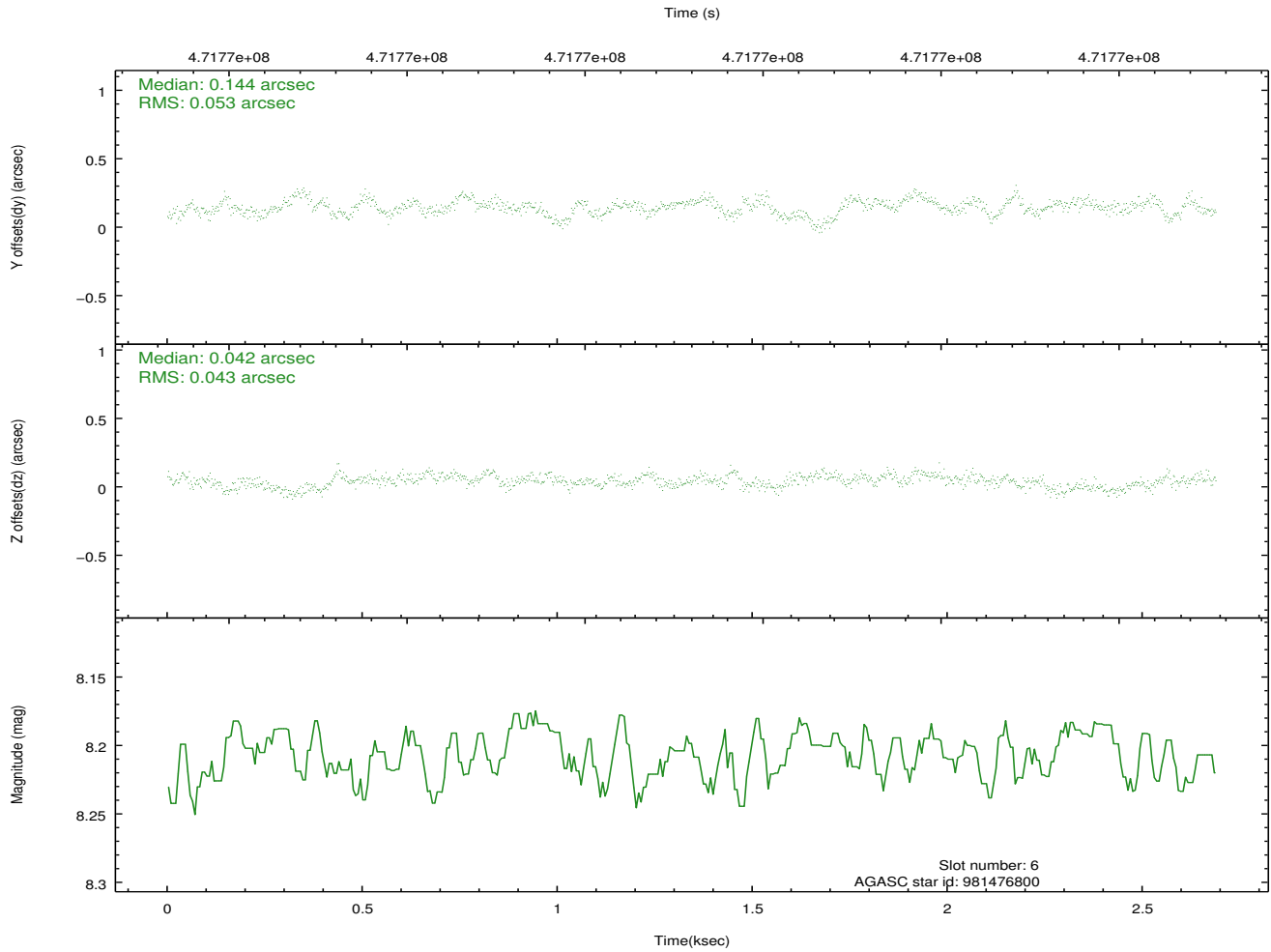
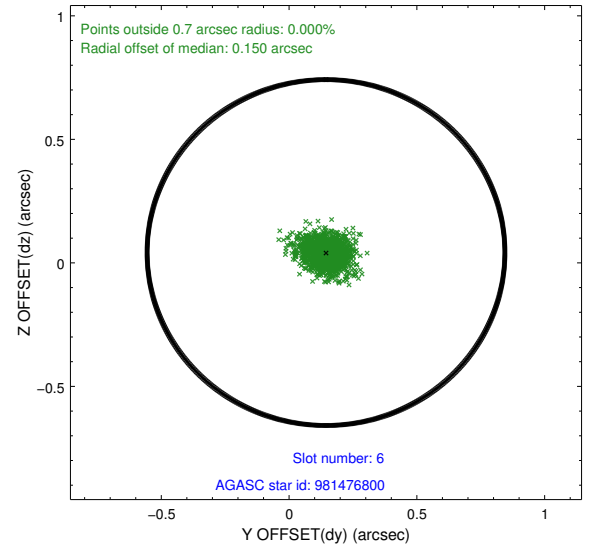
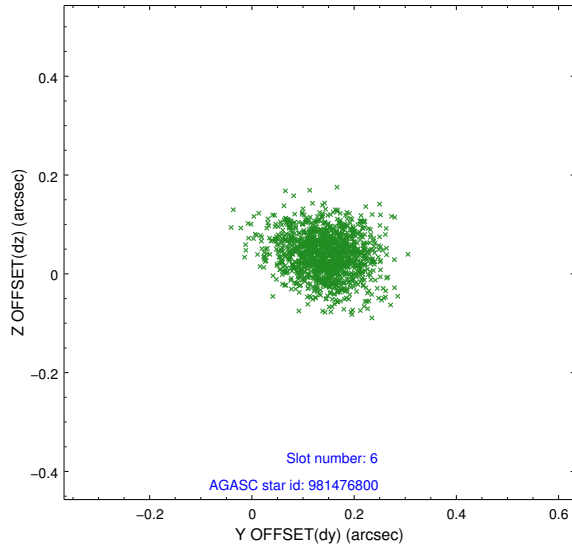
2.4.2 Slot 4



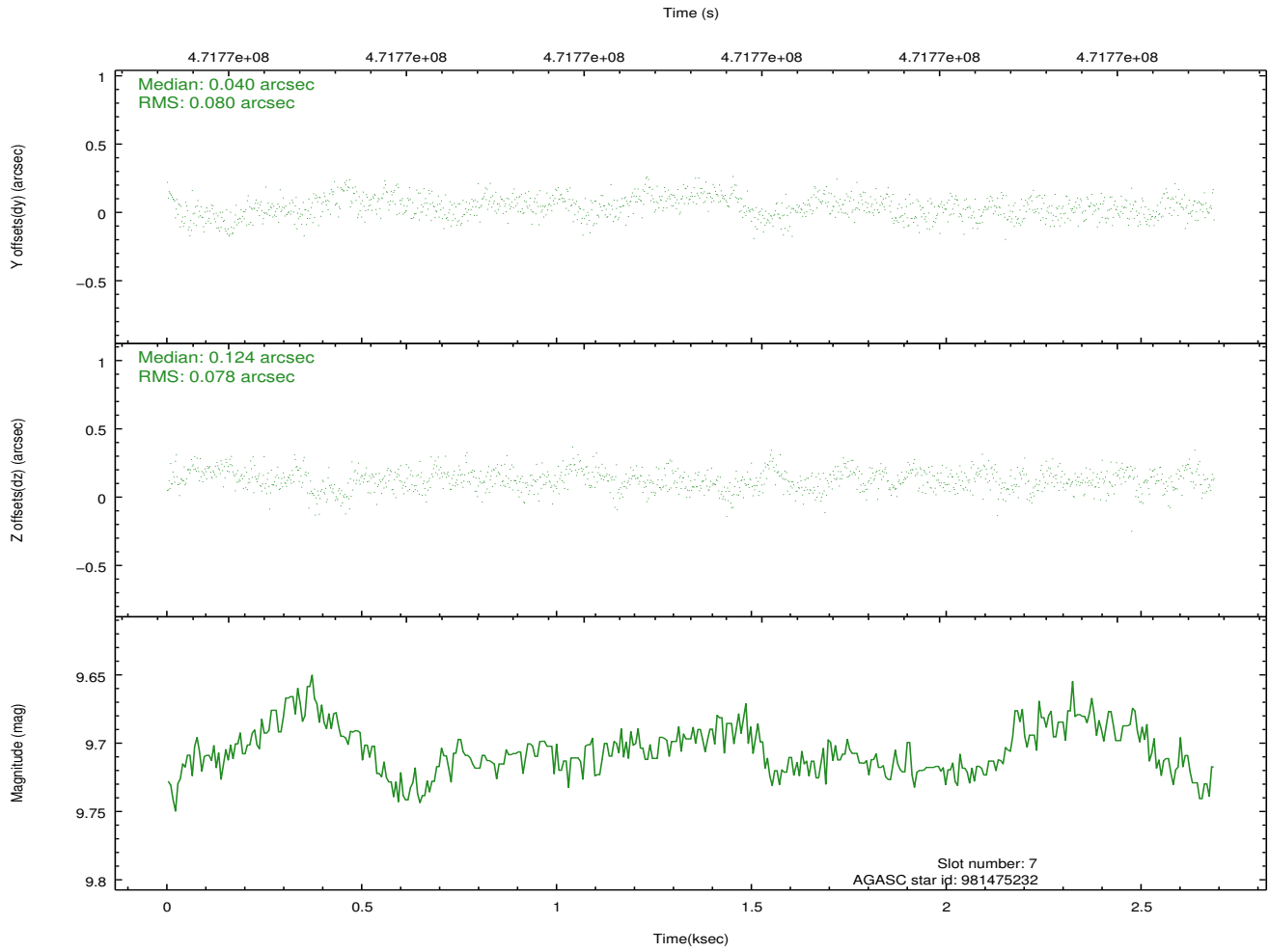
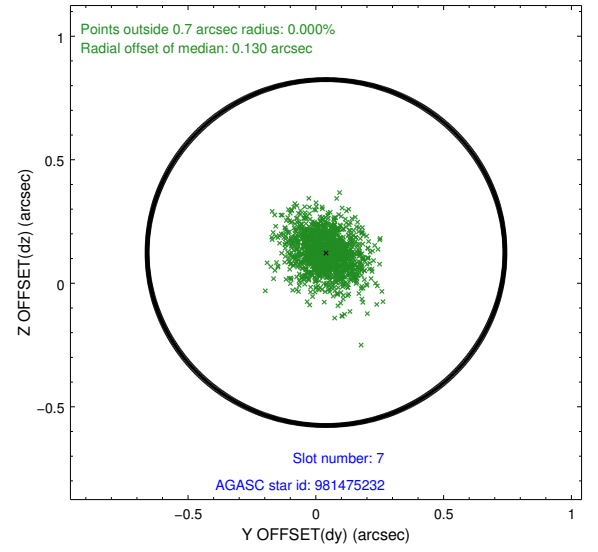
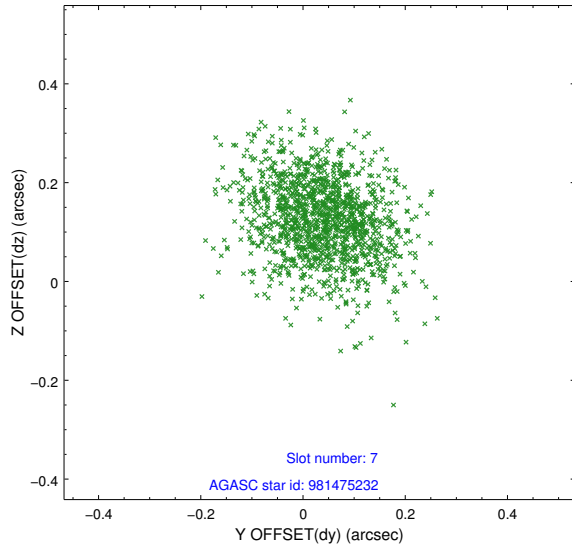
2.4.3 Slot 5



2.4.4 Slot 6

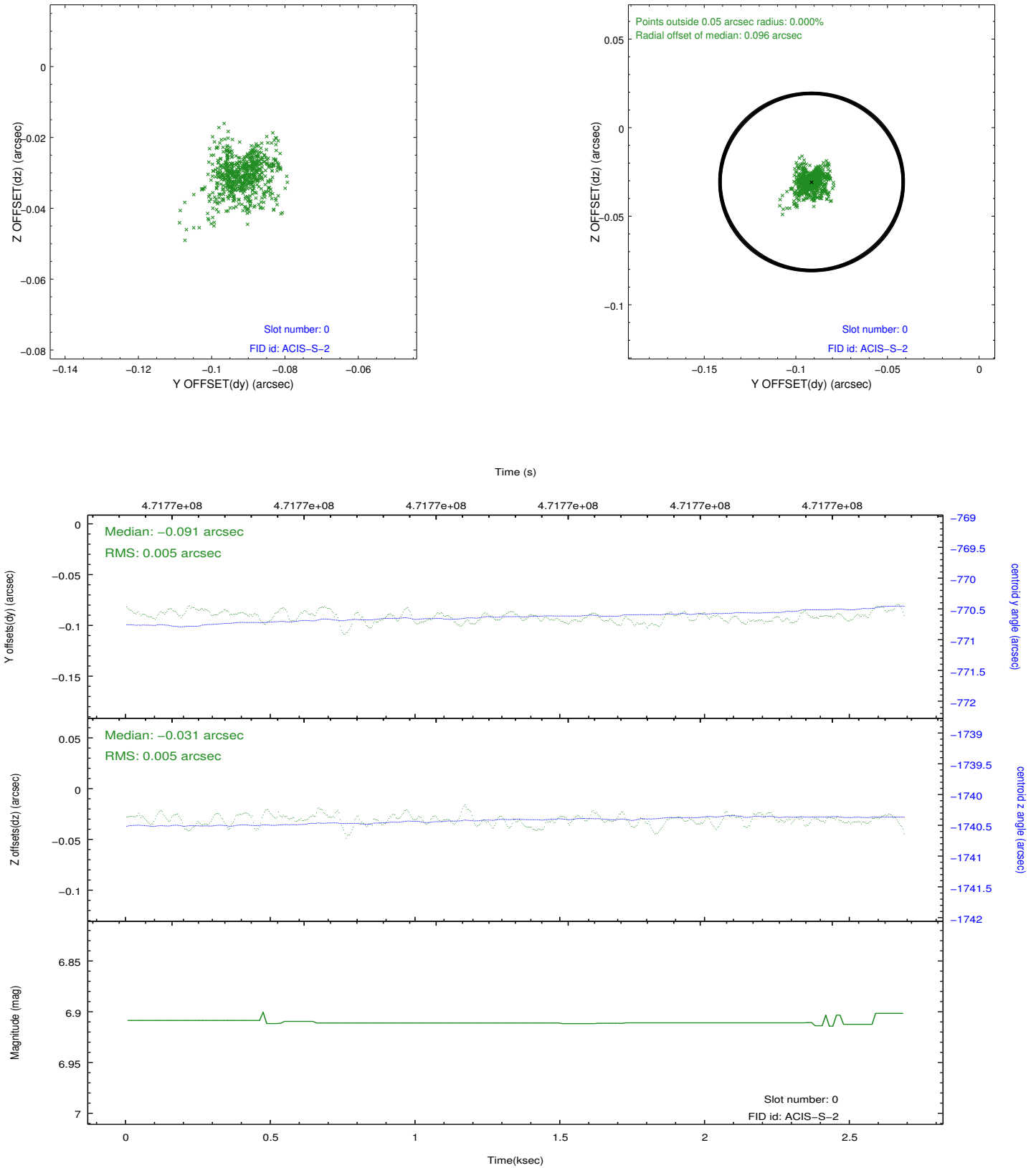


2.4.5 Slot 7

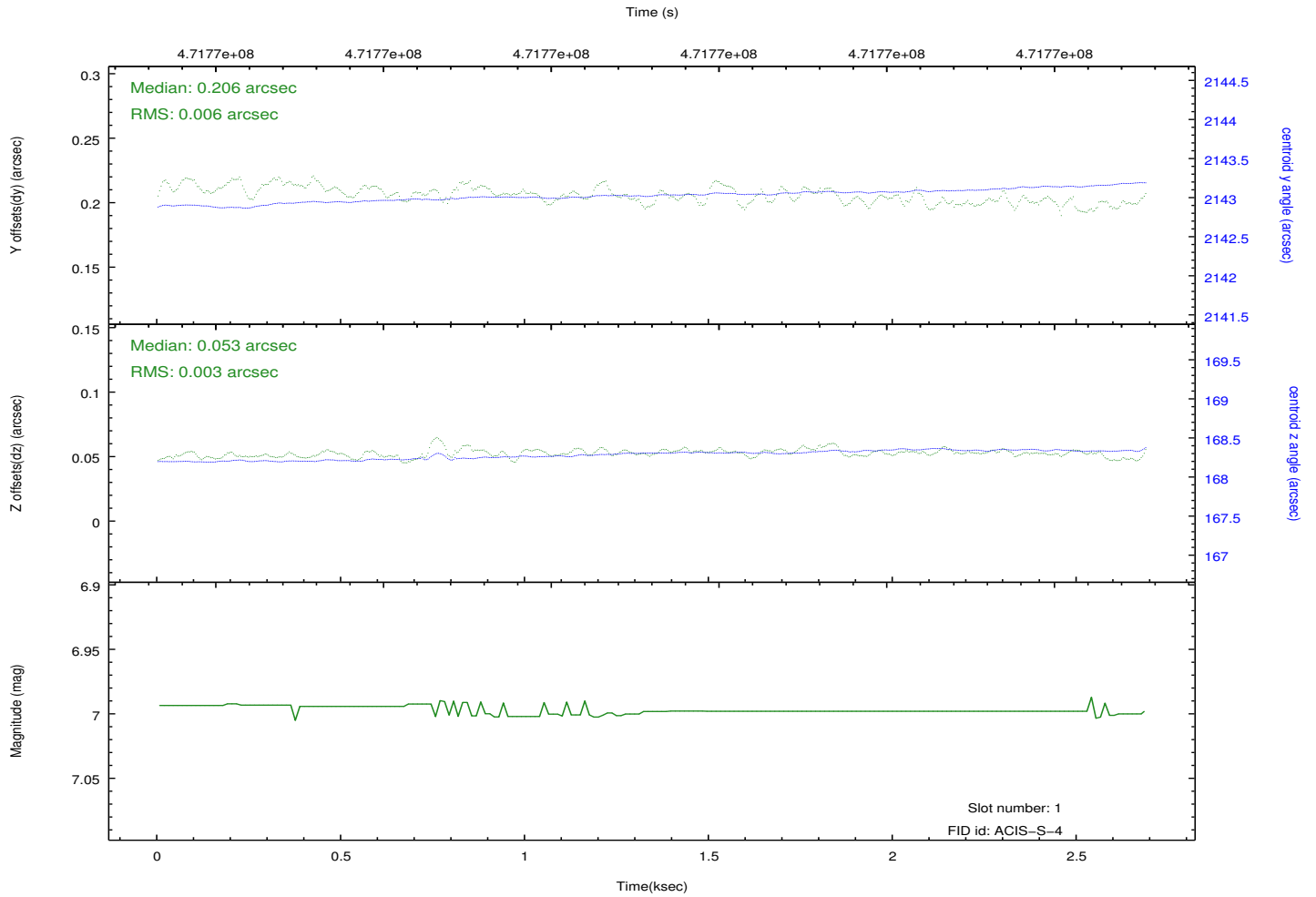
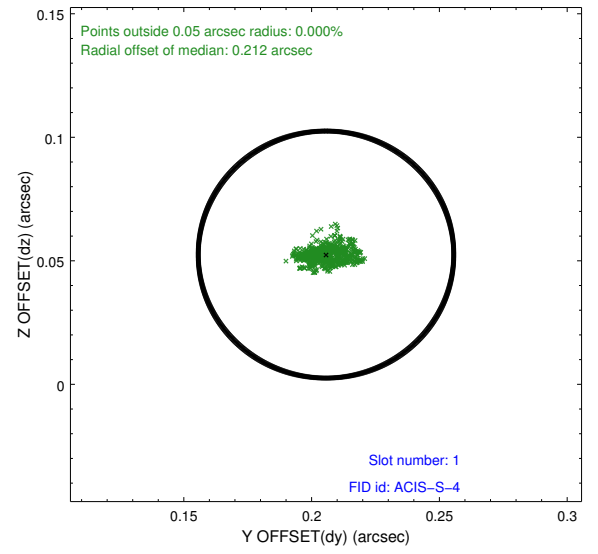
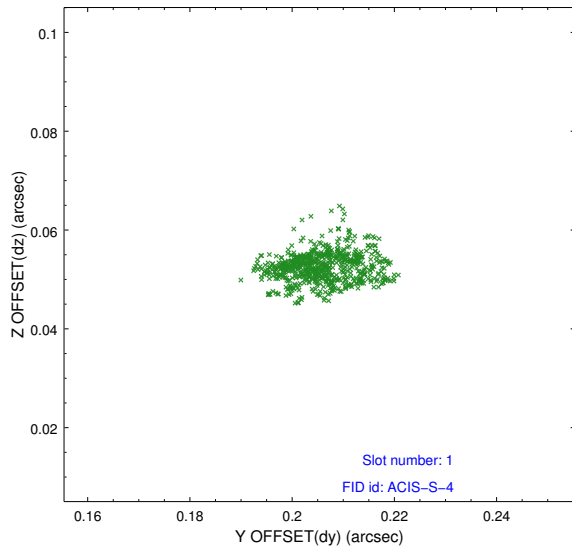


2.5 FID Slots

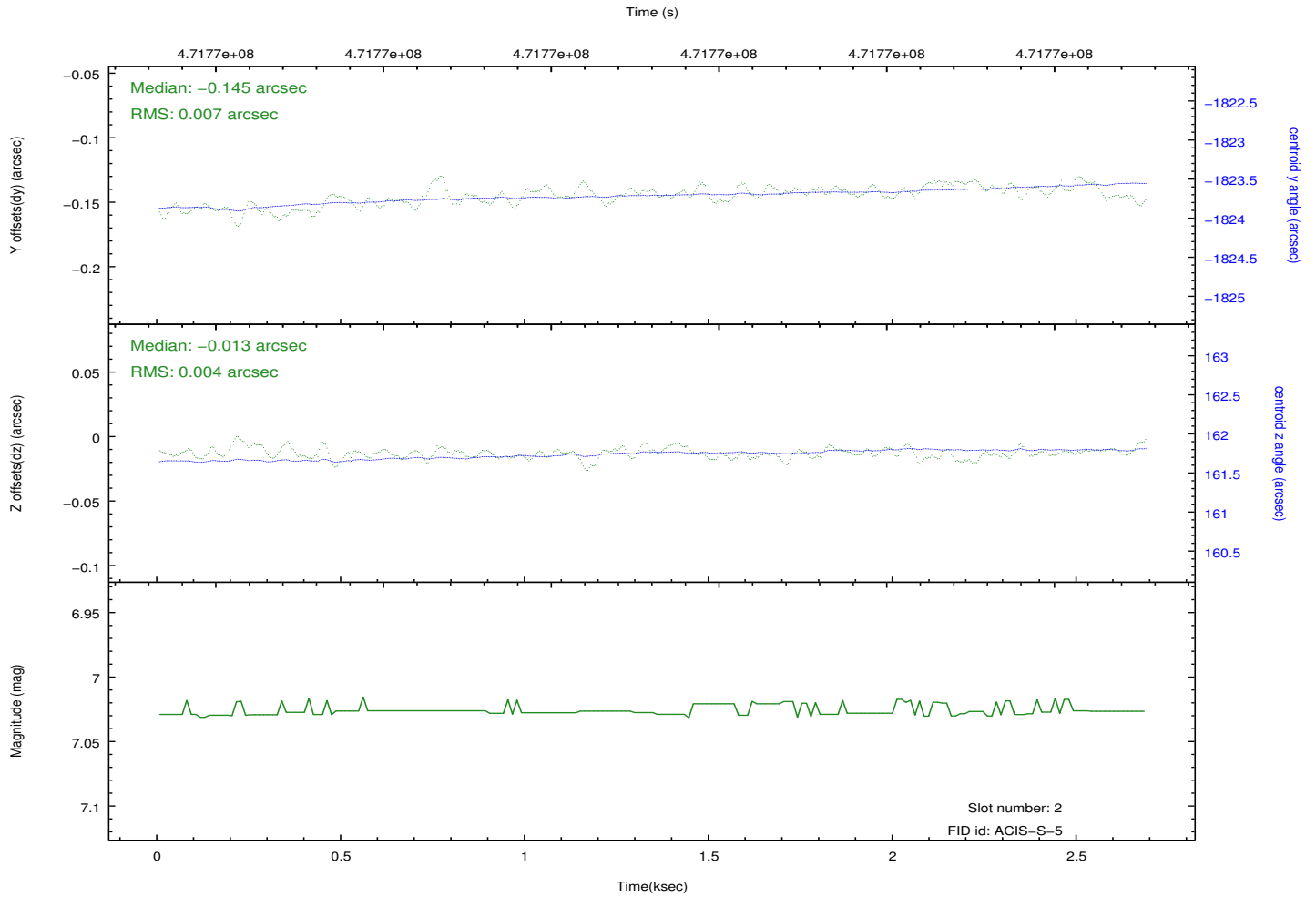
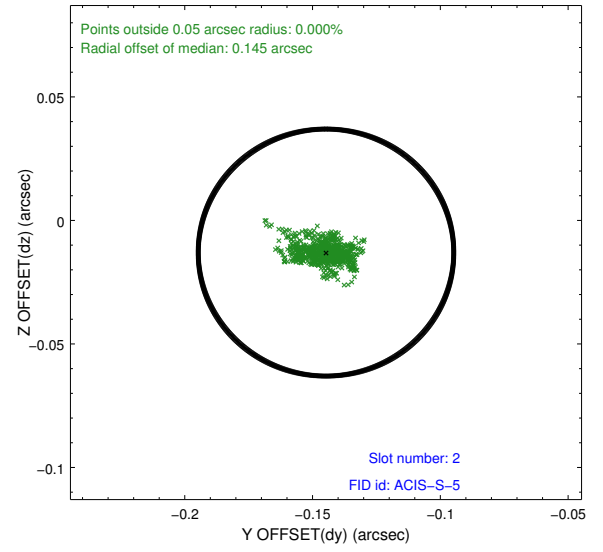
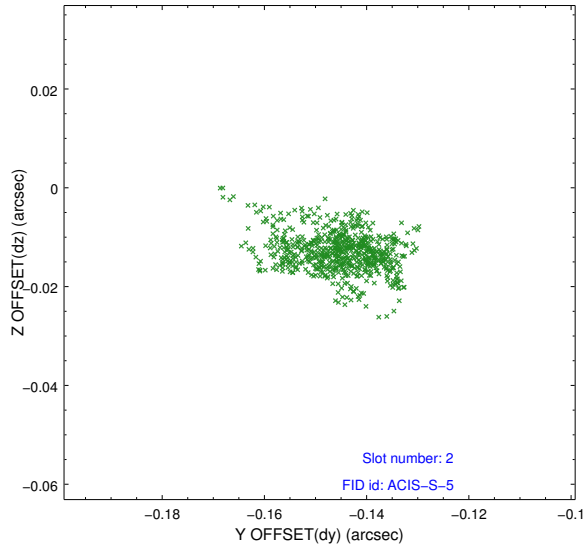
2.5.1 Slot 0



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	2.5924483924508

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.