

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 18773 - L2 Version 1
Chandra X-Ray Center

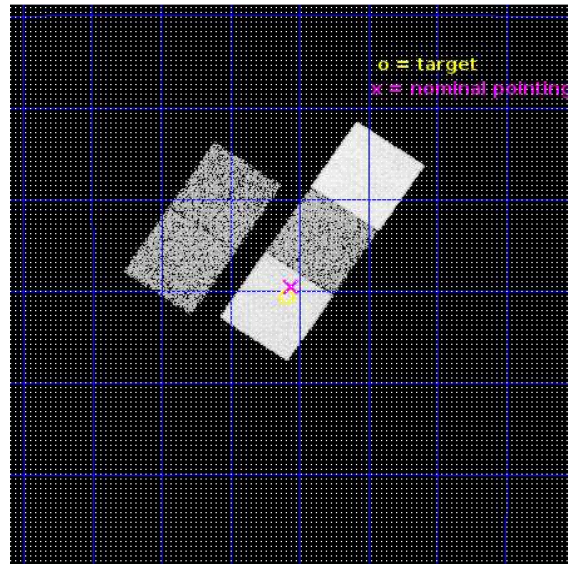
L2 Processing Date : Jul 24 2017

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1 Front

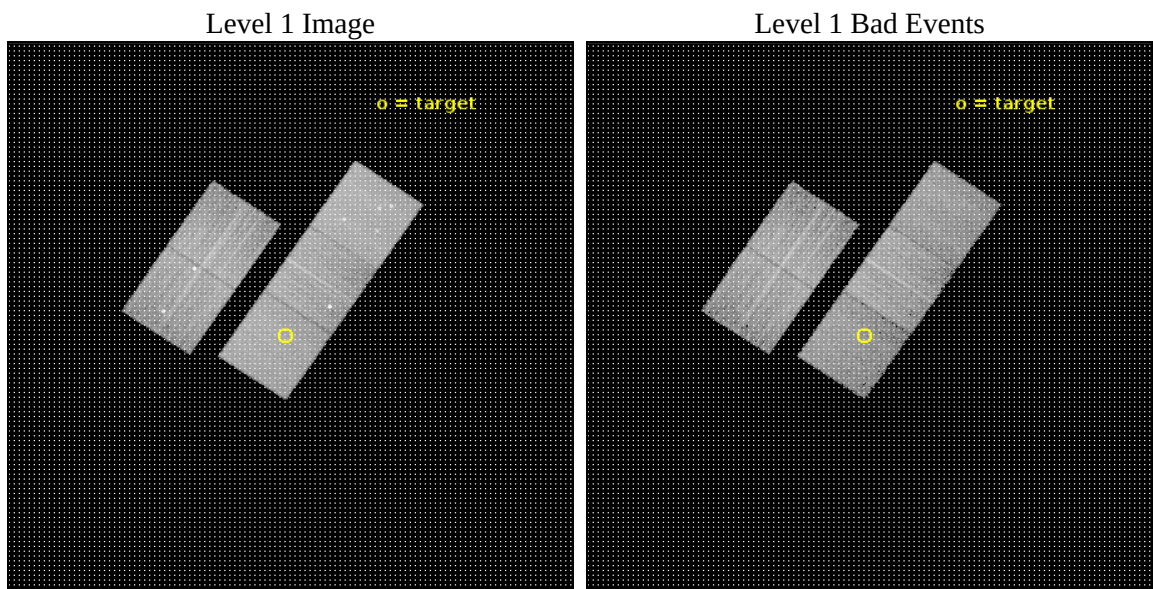
seq_num	801648	Sequence number
obs_id	18773	Observation id
title	Probing the extreme mass peaks at $z>0.7$	Proposal title
observer	Monique ARNAUD	Principal investigator
object	PSZ2 G208.57-44.31	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	60.647429	Observer's specified target RA [deg]
dec_targ	-15.678249	Observer's specified target Dec [deg]
ra_nom	60.63903468879	Nominal RA [deg]
dec_nom	-15.659003896699	Nominal Dec [deg]
roll_nom	123.94109039845	Nominal Roll [deg]
revision	1	Processing version of data
ontime	10053.300077438	Sum of GTIs [s]
livetime	9921.9463107948	Livetime [s]
ontime2	10050.159097195	Sum of GTIs [s]
ontime3	10053.300077438	Sum of GTIs [s]
ontime5	10053.300077438	Sum of GTIs [s]
ontime6	10053.300077438	Sum of GTIs [s]
ontime7	10053.300077438	Sum of GTIs [s]
l2events	122761	Number of level 2 events



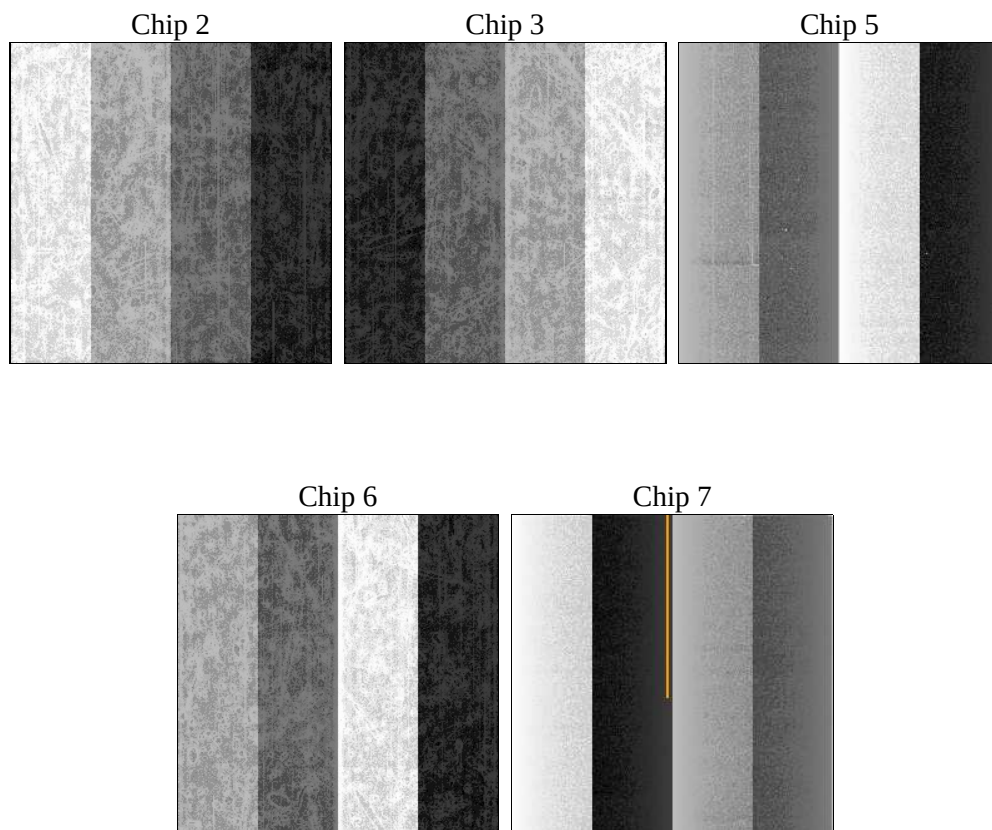
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	10053.300077438	Sum of GTIs [s]
caldbver	4.7.5	 	ontime2	10050.159097195	Sum of GTIs [s]
date	2017-07-24T17:56:38	Date and time of file creation	ontime3	10053.300077438	Sum of GTIs [s]
revision	1	Processing version of data	ontime5	10053.300077438	Sum of GTIs [s]
			ontime6	10053.300077438	Sum of GTIs [s]
			ontime7	10053.300077438	Sum of GTIs [s]
			l1events	515299	Number of level 1 events

2.1.4 Events

	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
level 1 events	96157	92008	127366	99047	100721
rejected events	84843	78843	64938	85831	56073
rejected %	88%	85%	50%	86%	55%

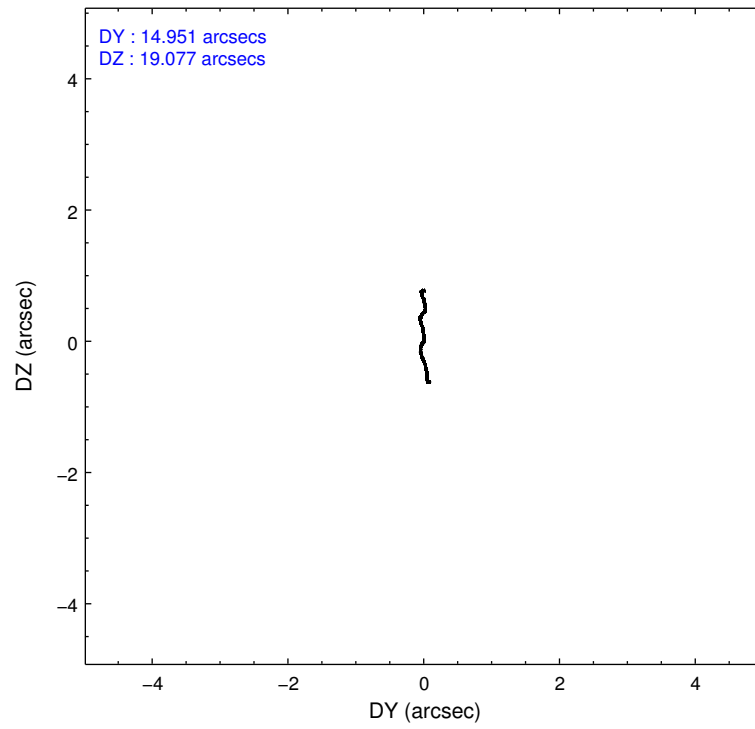
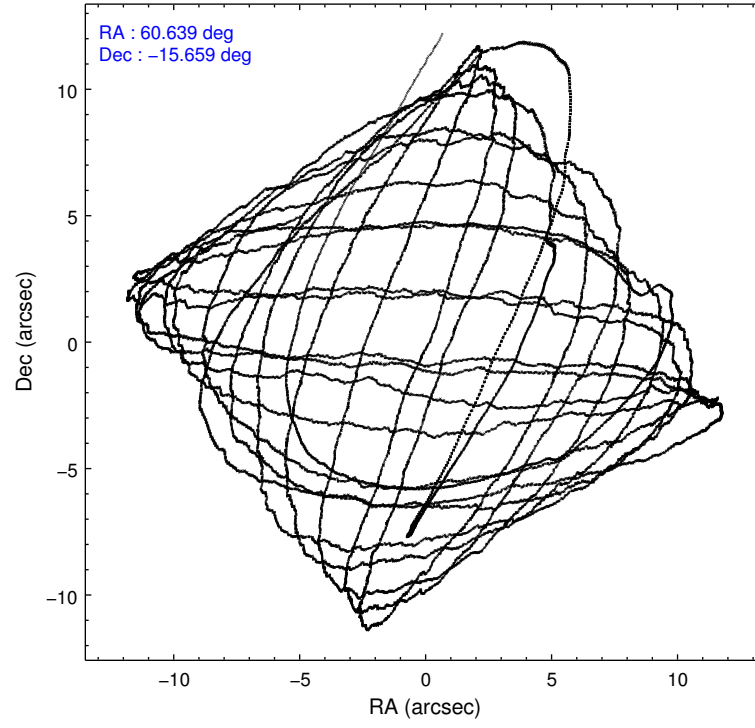
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
grade 0 events	4299	8045	7118	3636	4089
	4%	8%	5%	3%	4%
grade 1 events	61	90	342	43	199
	0%	0%	0%	0%	0%
grade 2 events	3280	1832	19601	5831	10291
	3%	1%	15%	5%	10%
grade 3 events	777	798	2295	859	3799
	0%	0%	1%	0%	3%
grade 4 events	1167	832	2275	852	3686
	1%	0%	1%	0%	3%
grade 5 events	2959	3489	8859	3455	9878
	3%	3%	6%	3%	9%
grade 6 events	1802	1664	31153	2042	22802
	1%	1%	24%	2%	22%
grade 7 events	81812	75258	55723	82329	45977
	85%	81%	43%	83%	45%

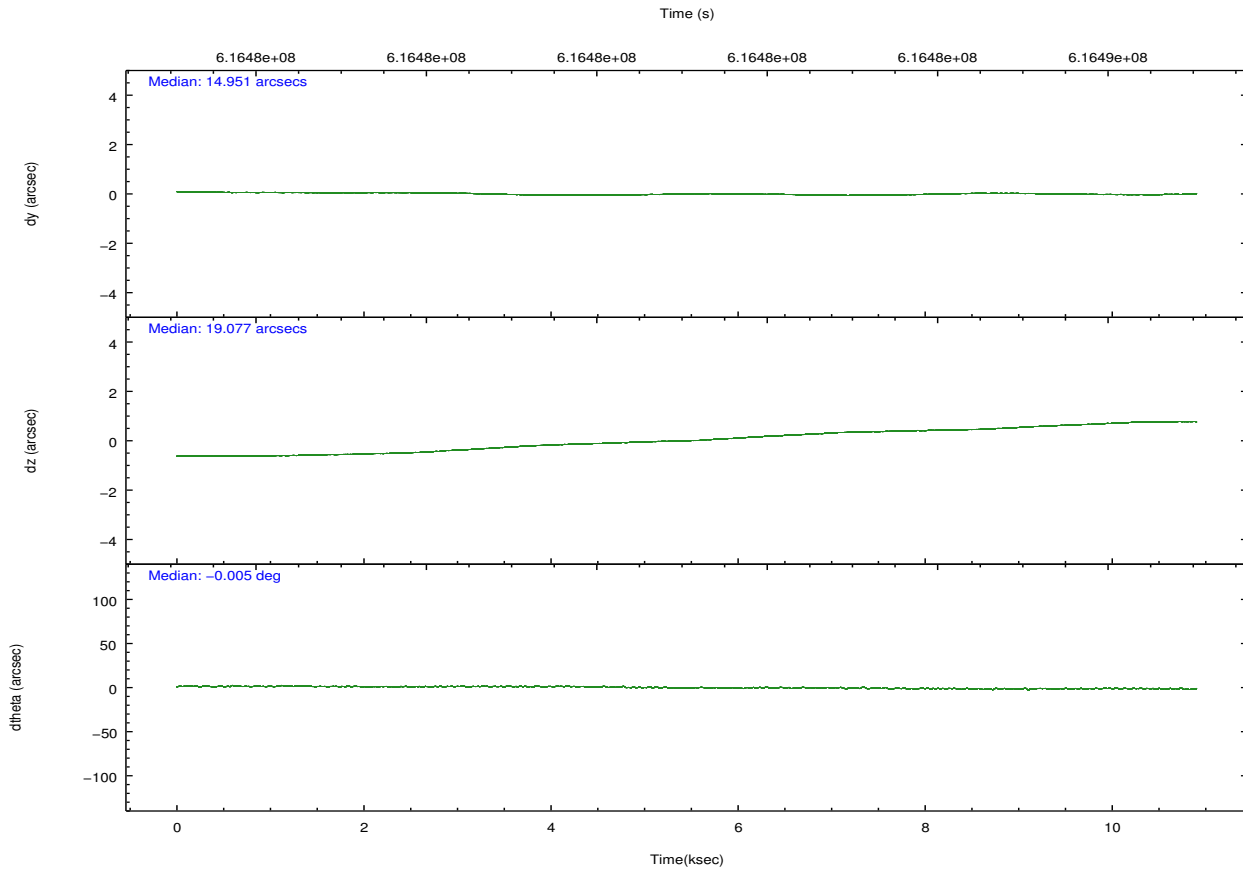
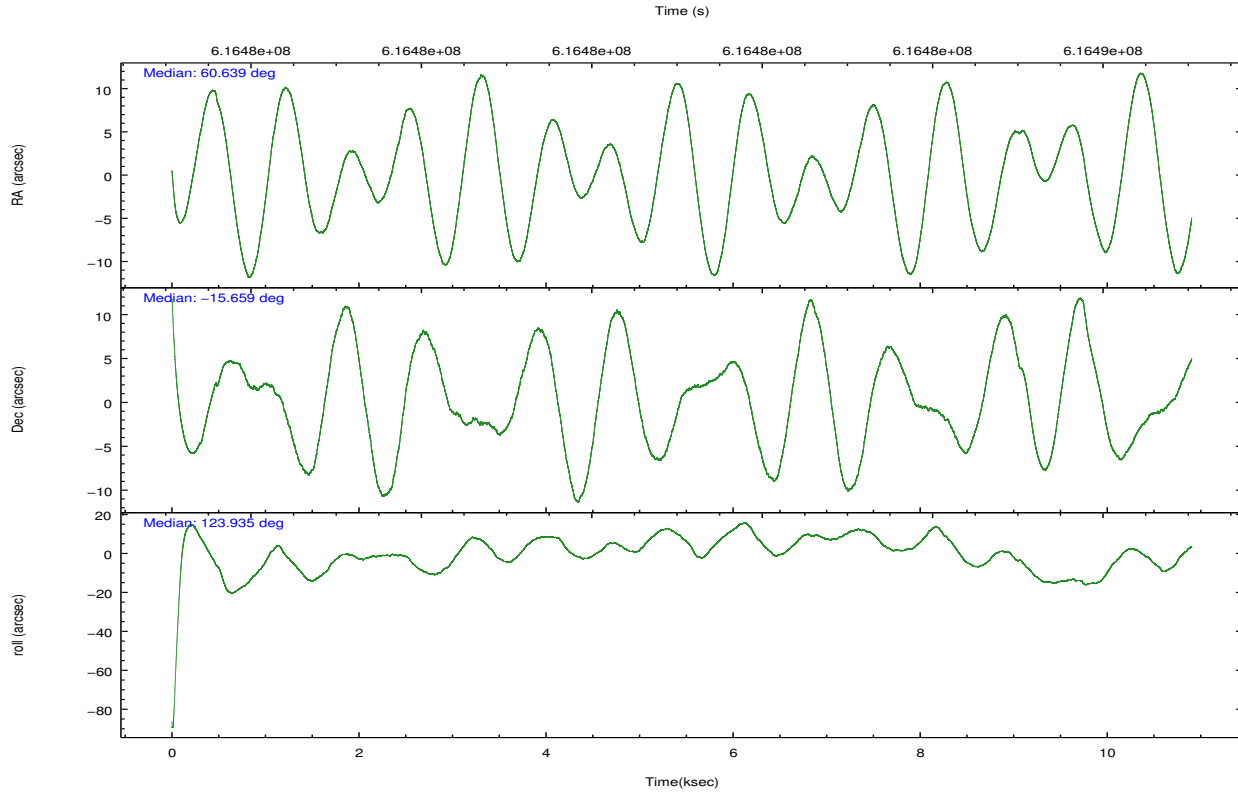
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-23567	ACIS-23567
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	60.664816	60.63903468878959
[deg] Pointing Dec	-15.670719	-15.65900389669913
[deg] Pointing Roll	123.791584	123.9410903984544
[mm] SIM focus pos	-0.6828225247311905	-0.6828225247311905
[mm] SIM defocus	0.001444942264670179	0.001444942264670179
[mm] SIM translation stage pos	-190.1400660498719	-190.1400660498719
[mm] SIM translation stage offset	0.007542945904702947	0.007542945904702947
[s] Observation start time (MET)	616475380.1549386	616475380.1549386
Observation start date	2017-07-15T03:09:40	2017-07-15T03:09:40
[s] Observation end time (MET)	616487812.3806601	616487812.3806601
Observation end date	2017-07-15T06:36:52	2017-07-15T06:36:52
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	OVERRIDE	OVERRIDE
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	3.1	3.1

2.3 Aspect



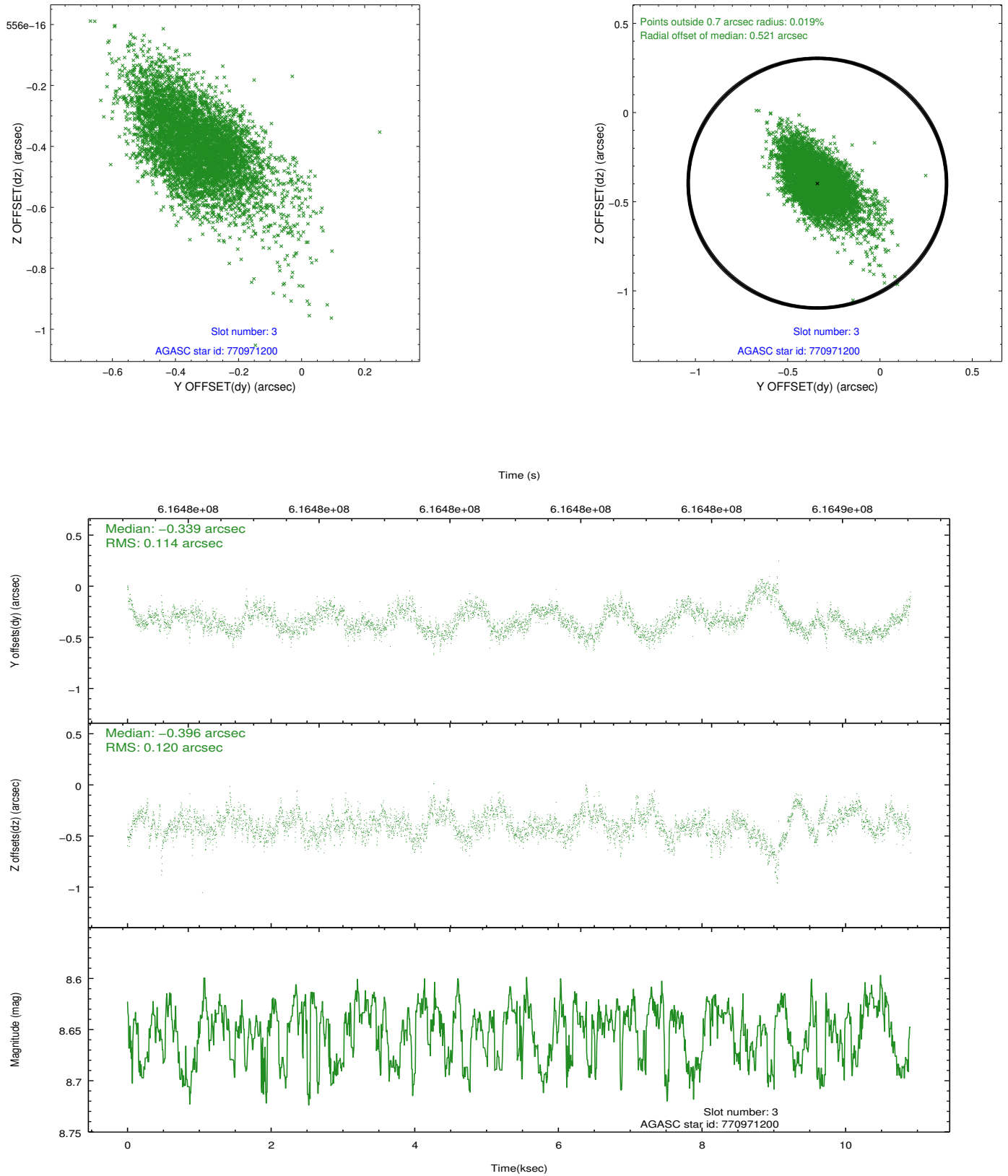


Slot Statistics

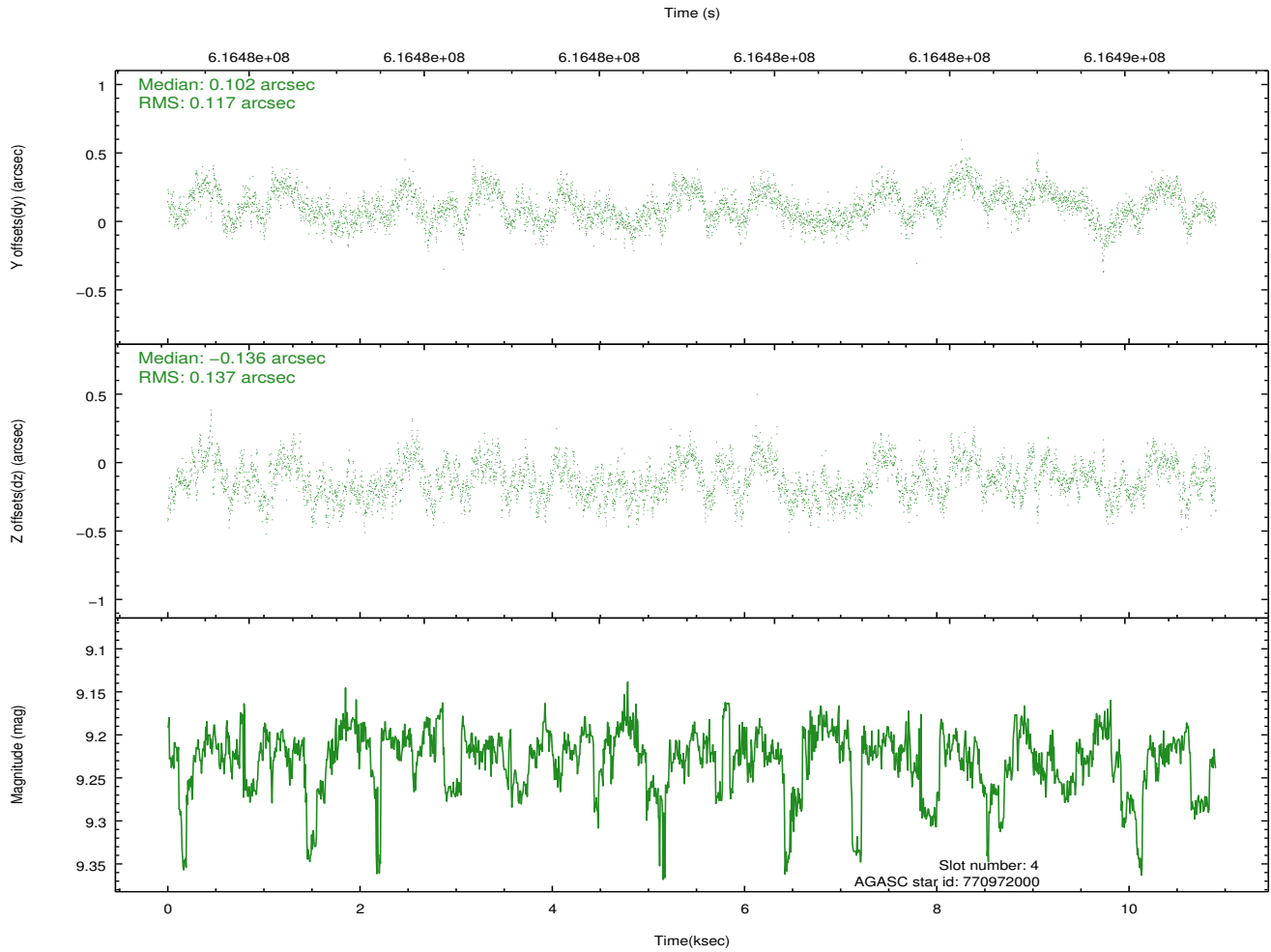
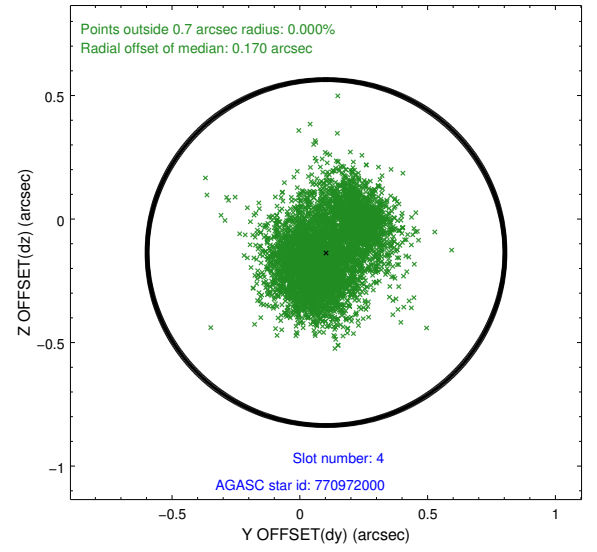
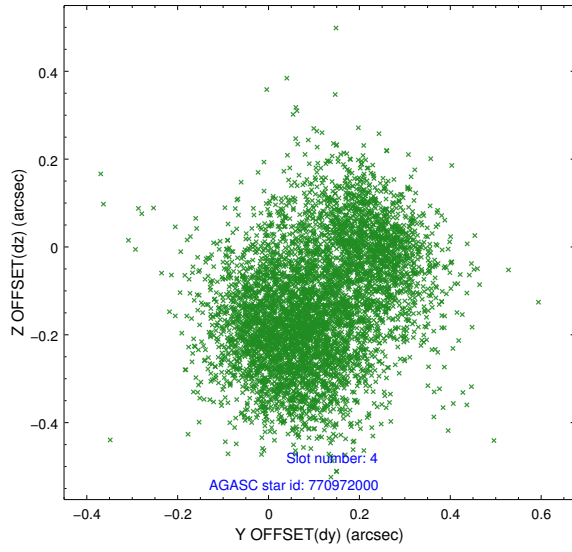
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.98	2660	-0.207	-0.089	0.021	0.031	0.000000	0.000000	-768.10	-1740.70
1	FID		ACIS-S-4	7.09	2660	0.483	0.123	0.005	0.010	0.000000	0.000000	2145.62	167.54
2	FID		ACIS-S-5	7.08	2659	-0.308	-0.026	0.021	0.031	0.000000	0.000000	-1820.47	161.55
3	GUIDE	used	770971200	8.65	5314	-0.339	-0.396	0.163	0.301	60.303550	-15.863107	118.10	1425.72
4	GUIDE	used	770972000	9.22	5316	0.102	-0.136	0.197	0.295	60.680197	-16.185862	-1569.38	987.02
5	GUIDE	used	770972320	9.04	5317	0.298	0.285	0.162	0.259	60.923871	-15.753318	-746.54	-579.69
6	OMITTED			0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00
7	GUIDE	used	771098632	9.51	5311	-0.071	0.234	0.220	0.360	61.355074	-15.709376	-1449.17	-1908.32

2.4 Star Slots

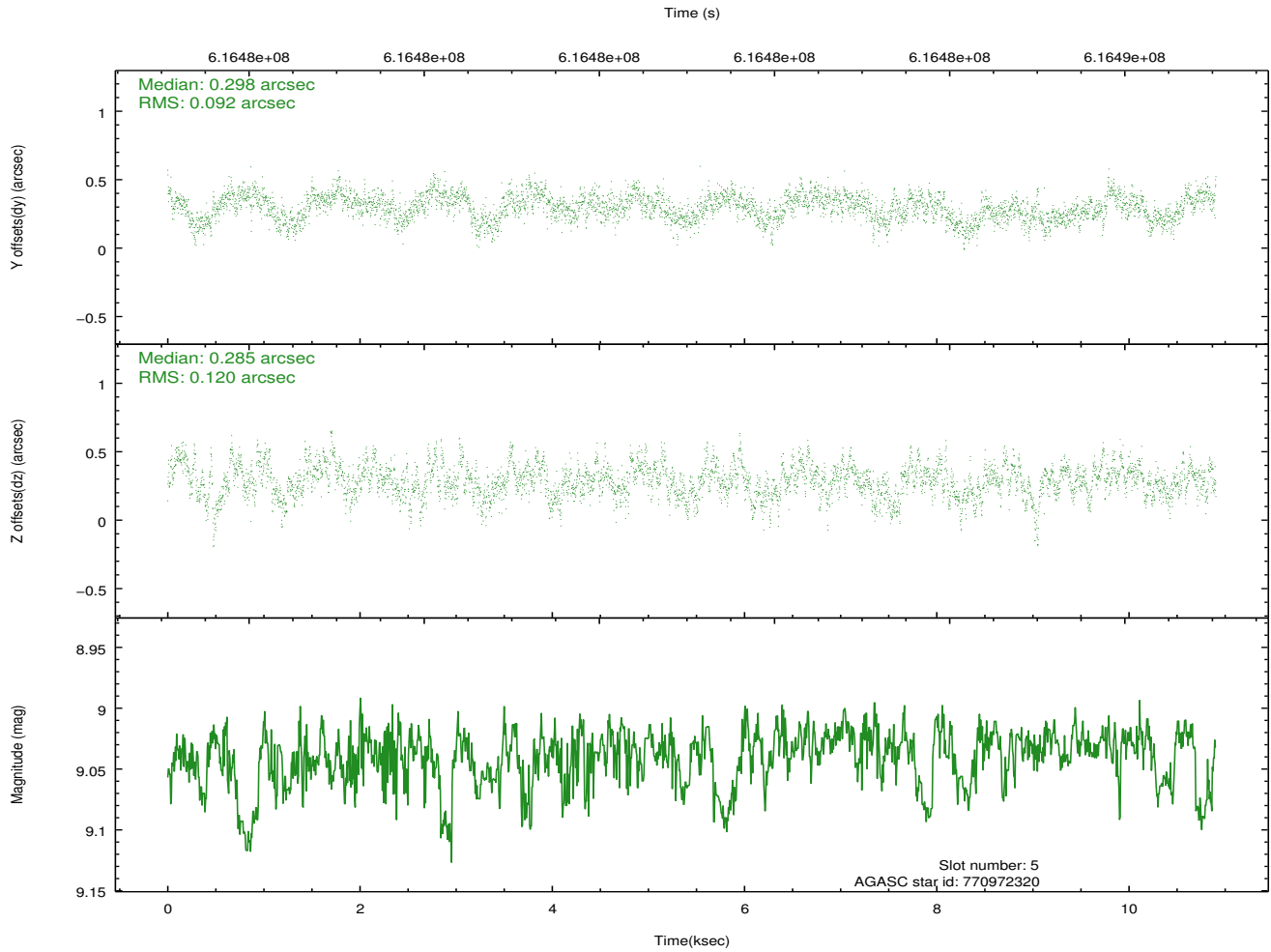
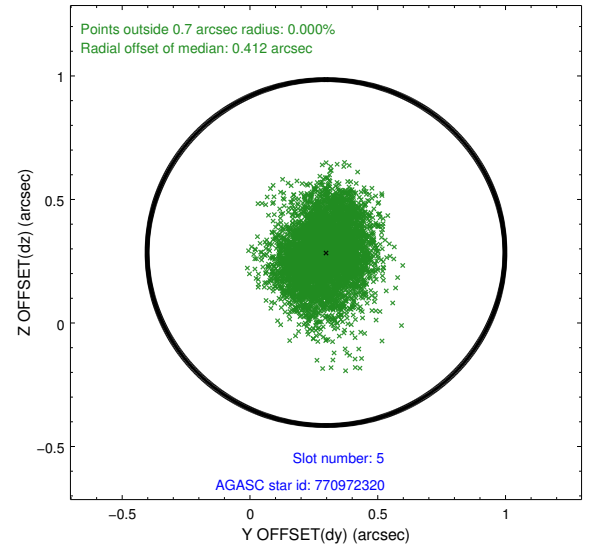
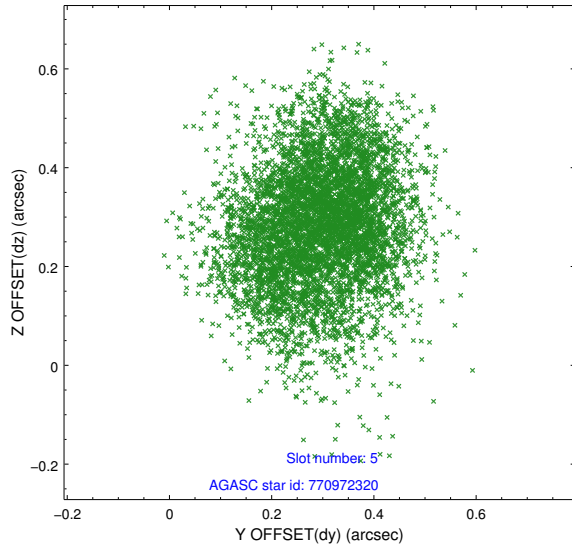
2.4.1 Slot 3



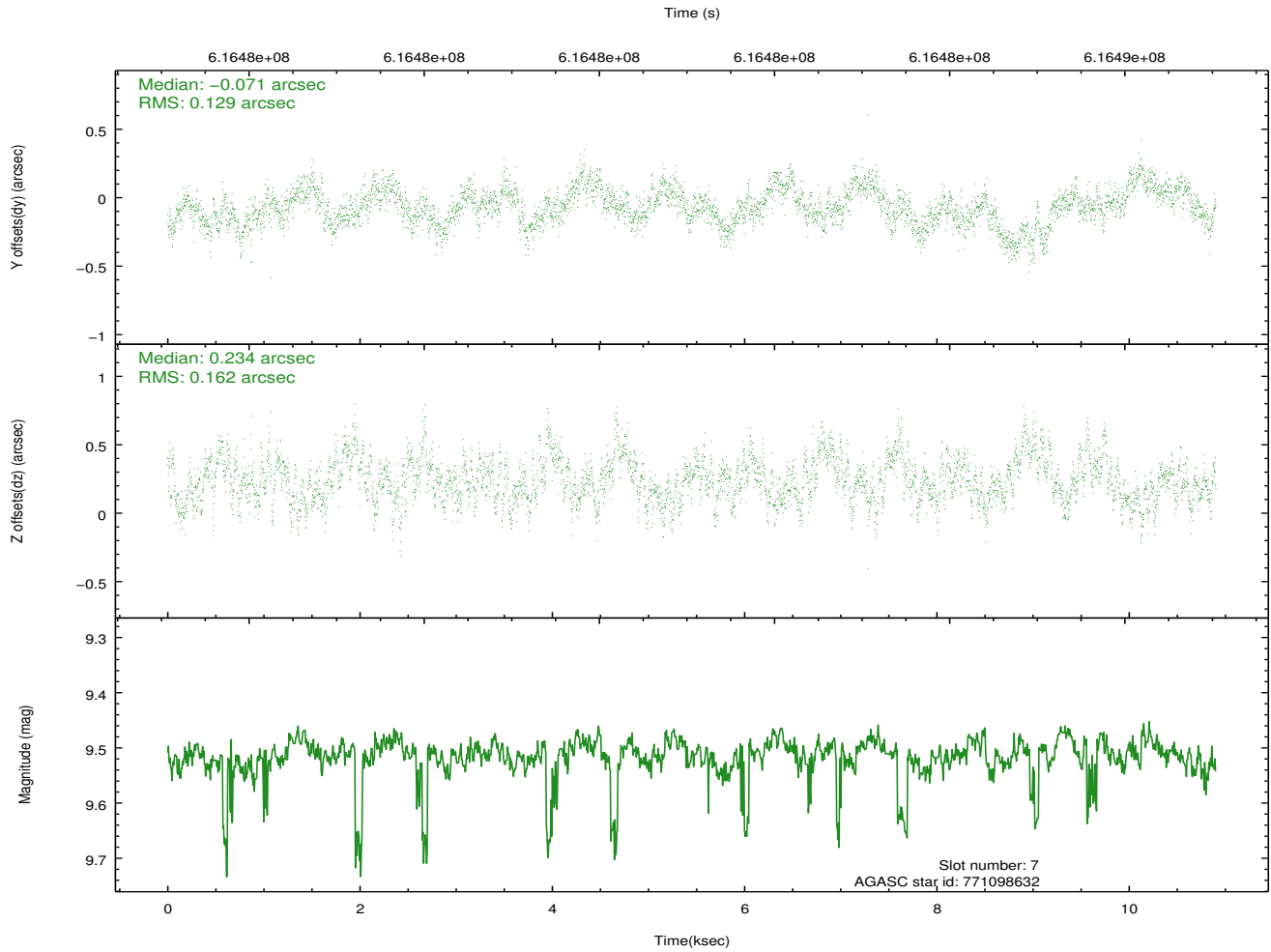
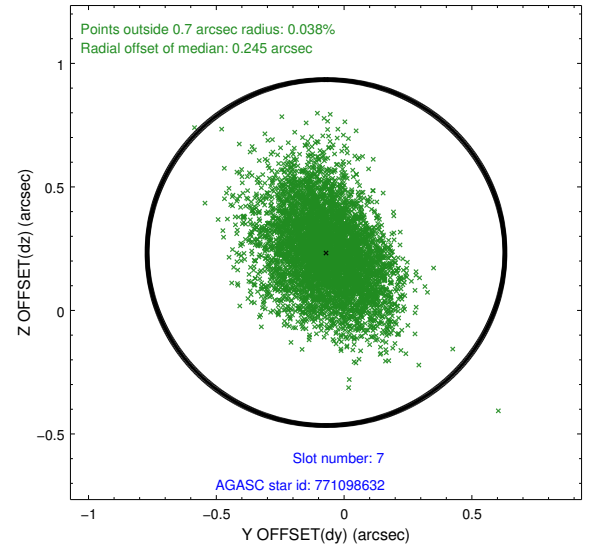
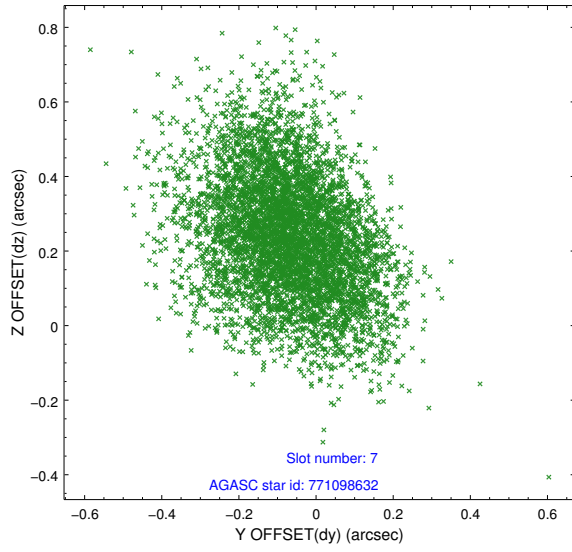
2.4.2 Slot 4



2.4.3 Slot 5

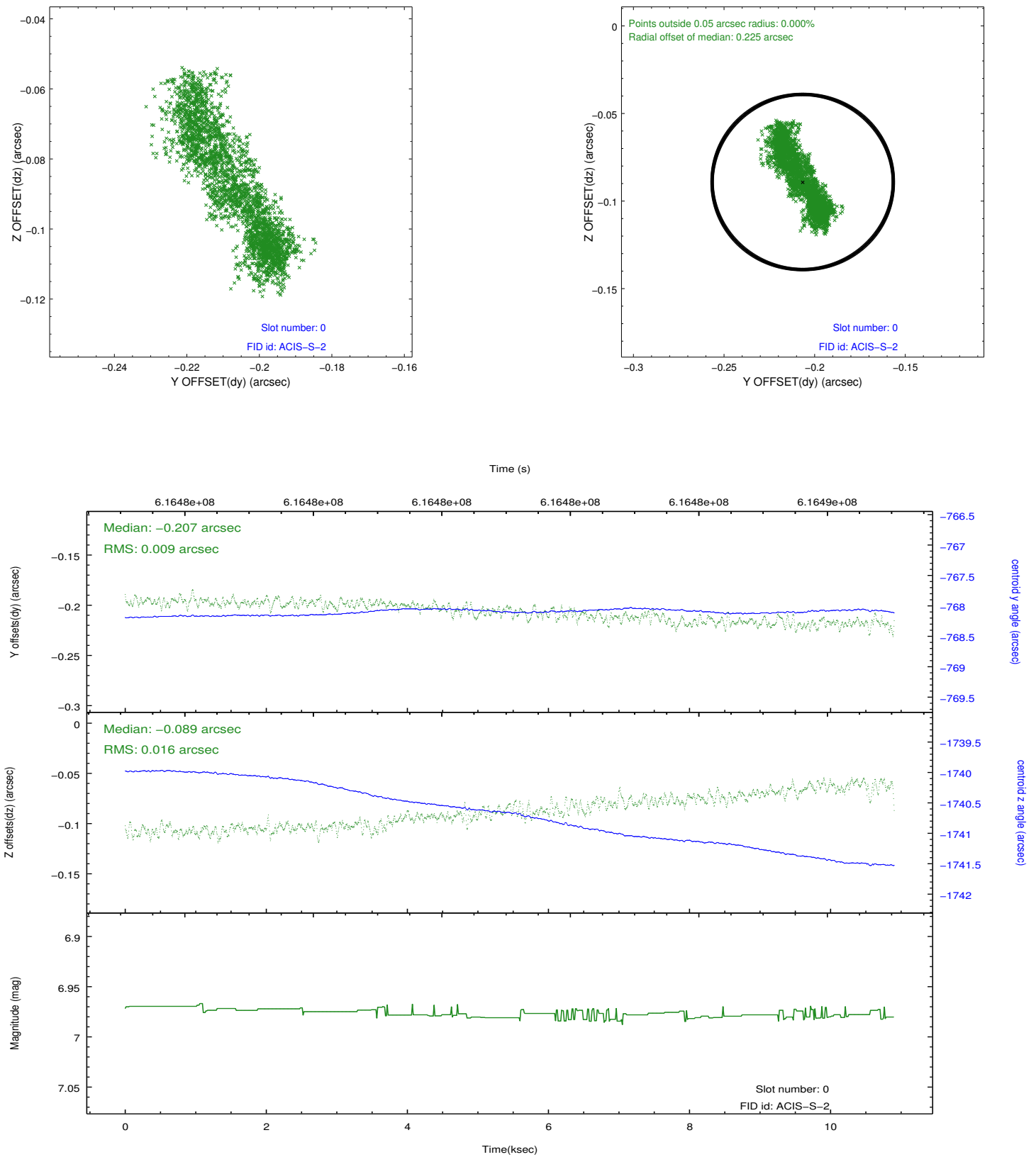


2.4.4 Slot 7

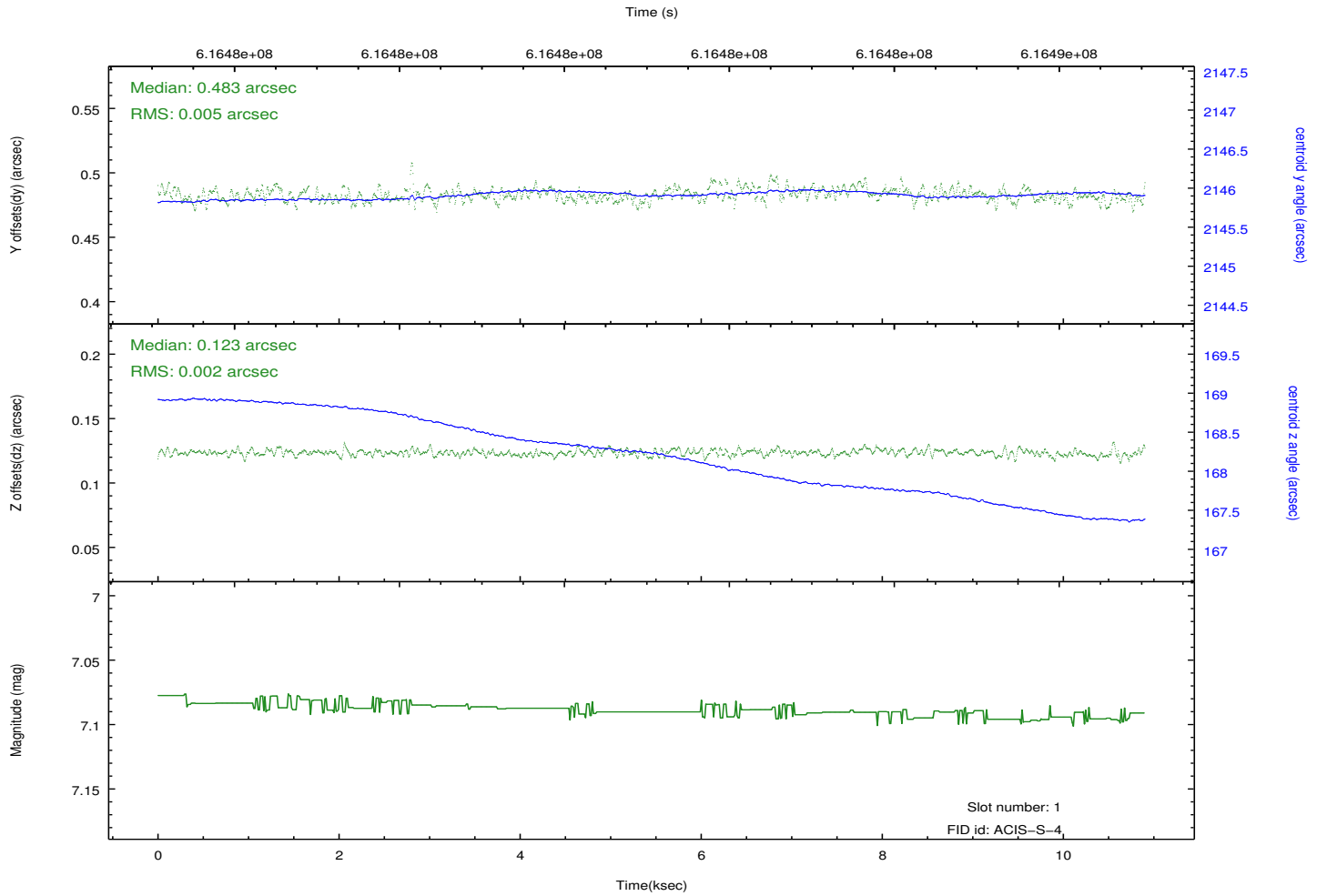
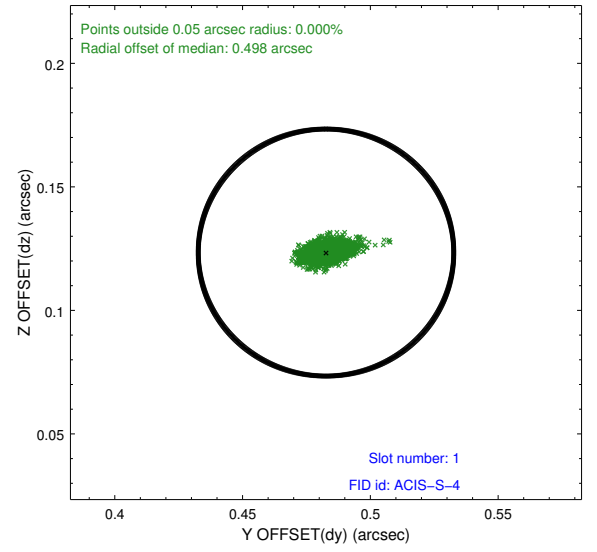
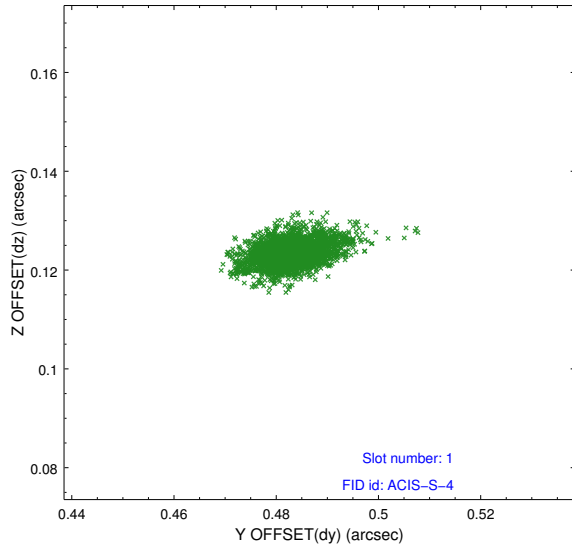


2.5 FID Slots

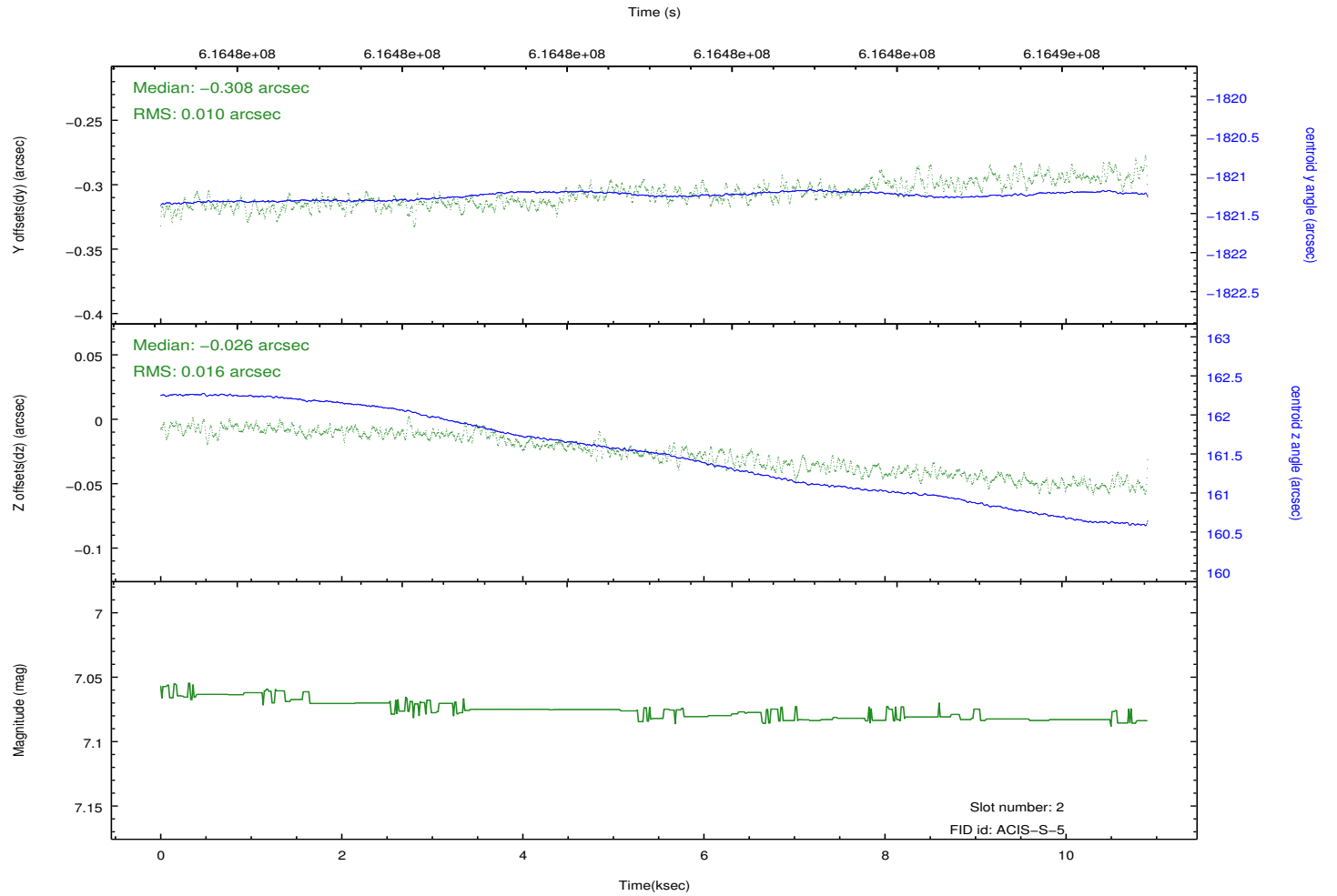
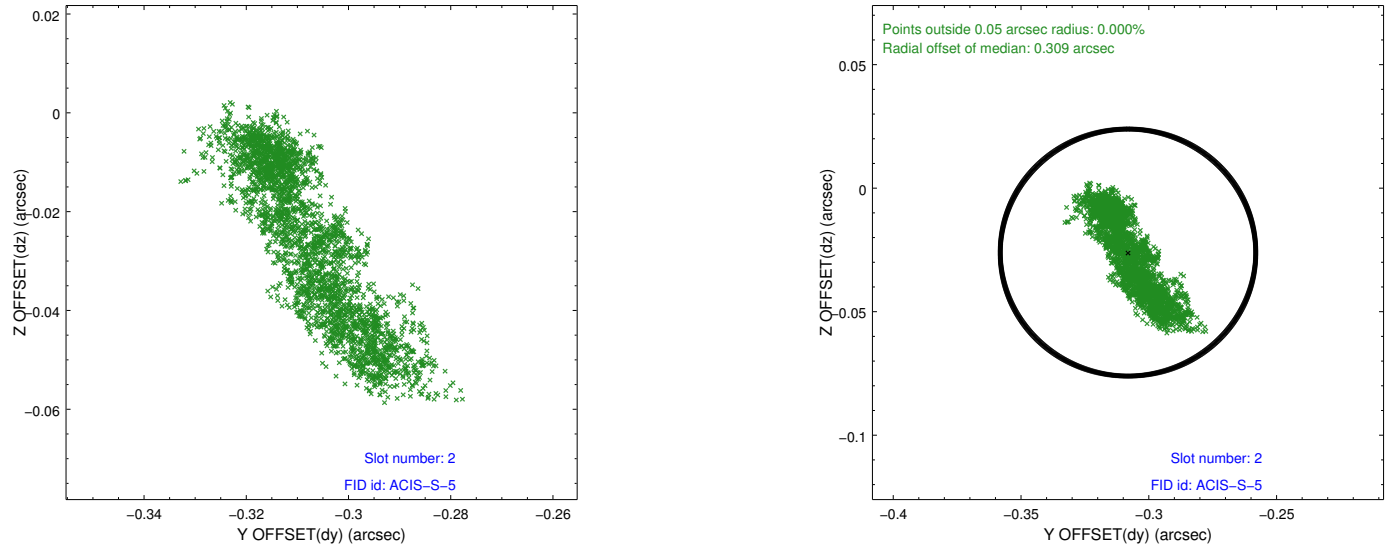
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2017.07.25
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.053300077438

A.2 Comments

The guide star in slot 6 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this guide star from the solution.