

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 20871 - L2 Version 1
Chandra X-Ray Center

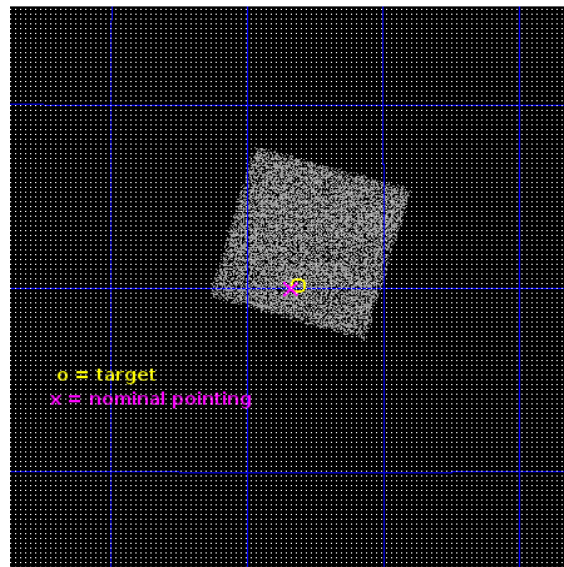
L2 Processing Date : Dec 27 2017

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1 Front

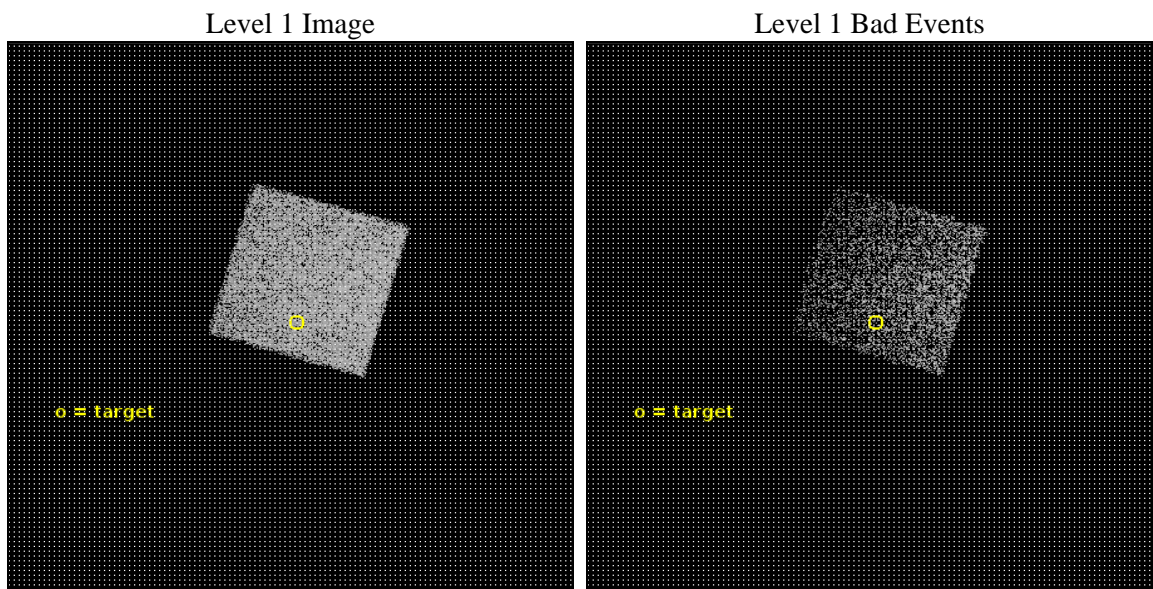
seq_num	201200	Sequence number
obs_id	20871	Observation id
title	Characterizing X-ray driven molecular chemistry in a young protoplanetary disk	Proposal title
observer	Lauren Cleeves	Principal investigator
object	DM Tau	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	68.452917	Observer's specified target RA [deg]
dec_targ	18.169417	Observer's specified target Dec [deg]
ra_nom	68.459013398655	Nominal RA [deg]
dec_nom	18.166260927022	Nominal Dec [deg]
roll_nom	286.17145632222	Nominal Roll [deg]
revision	1	Processing version of data
ontime	4090.8676873446	Sum of GTIs [s]
livetime	4035.6598604536	Livetime [s]
ontime7	4090.8676873446	Sum of GTIs [s]
l2events	15930	Number of level 2 events



2 OBI

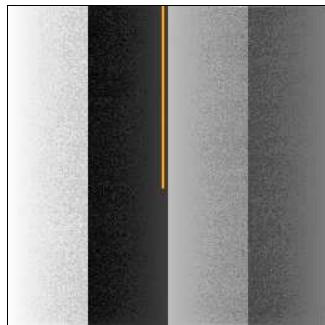
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	4000.000000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	4090.8676873446	Sum of GTIs [s]
caldsver	4.7.7	 	ontime7	4090.8676873446	Sum of GTIs [s]
date	2017-12-27T21:34:10	Date and time of file creation	l1events	36793	Number of level 1 events
revision	1	Processing version of data			

2.1.4 Events

	ccd 7
level 1 events	36793
rejected events	20436
rejected %	55%

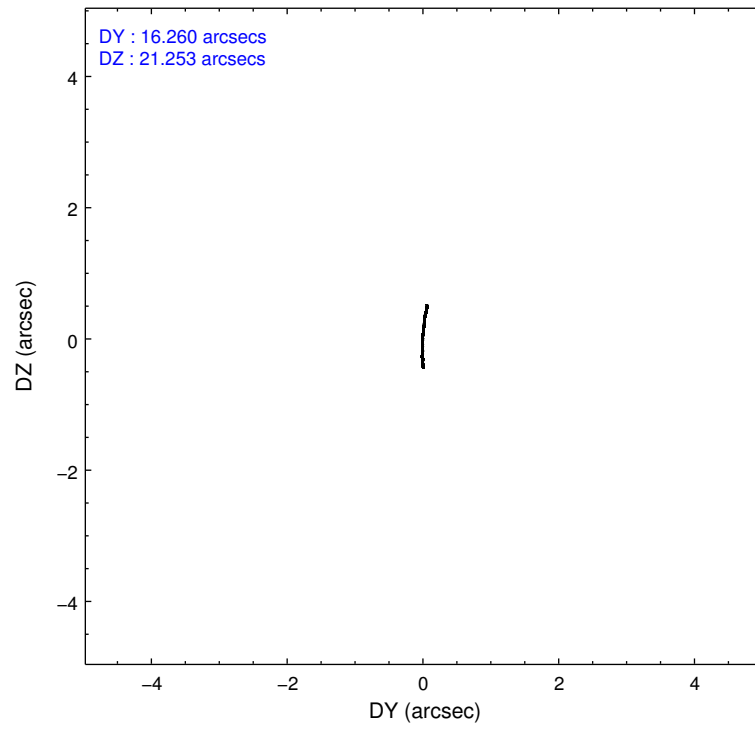
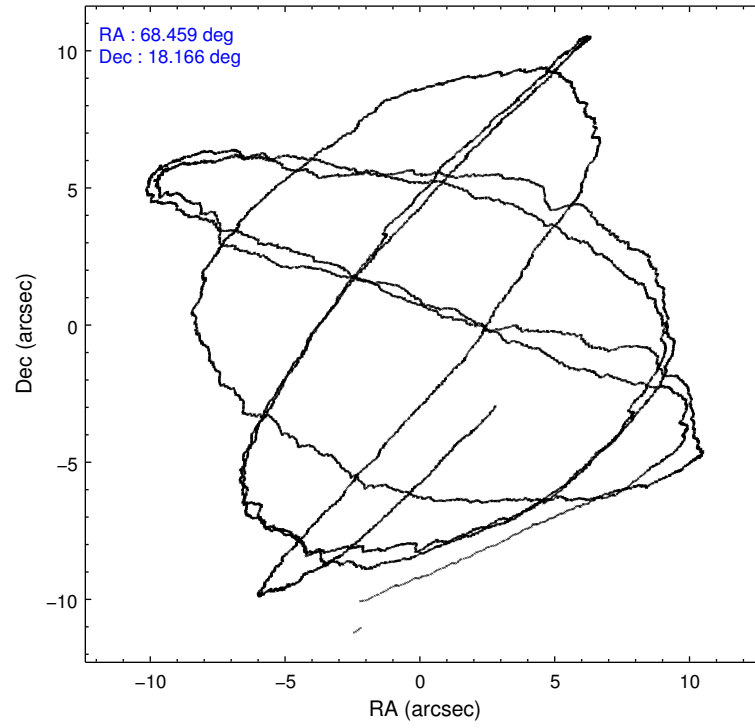
	ccd 7
grade 0 events	1416
	3%
grade 1 events	46
	0%
grade 2 events	3452
	9%
grade 3 events	1335
	3%
grade 4 events	1361
	3%
grade 5 events	3777
	10%
grade 6 events	8819
	23%
grade 7 events	16587
	45%

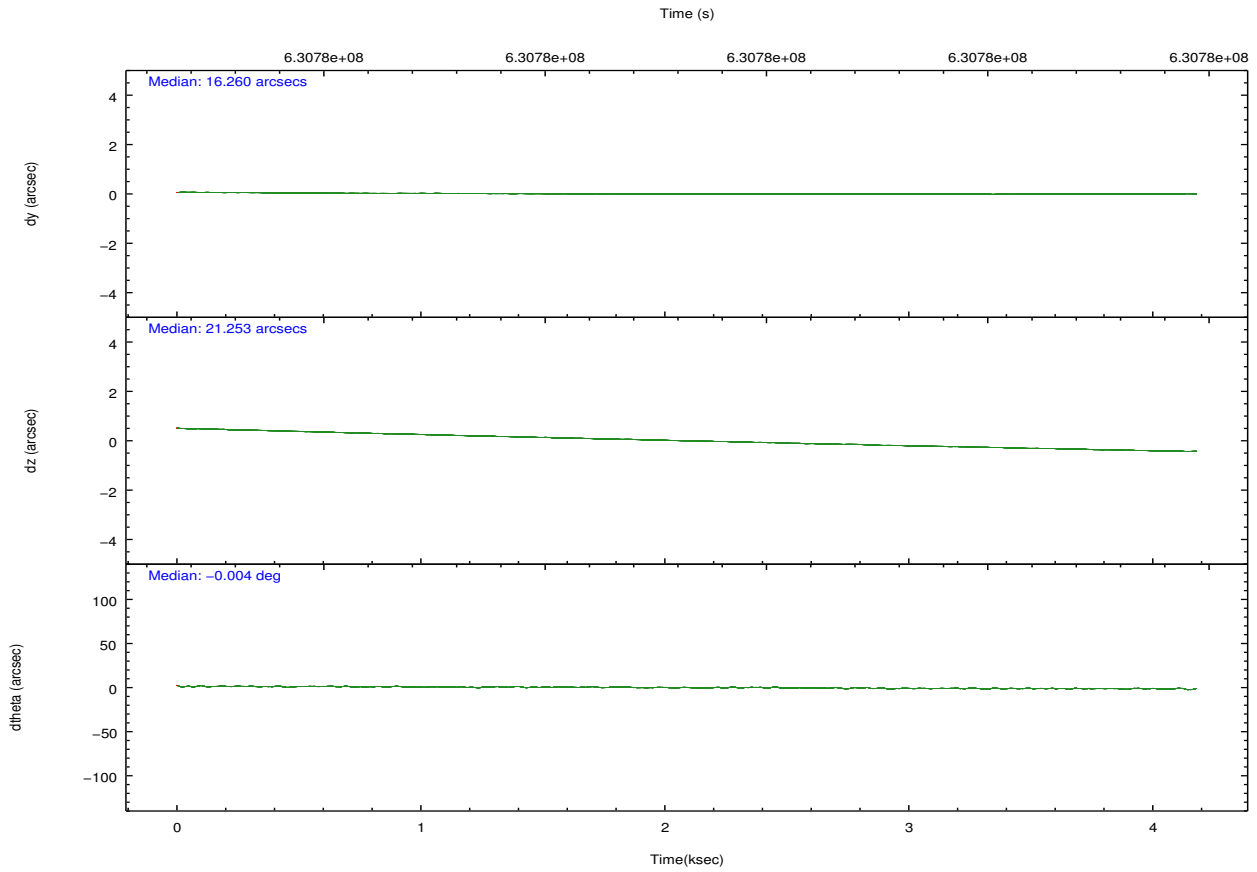
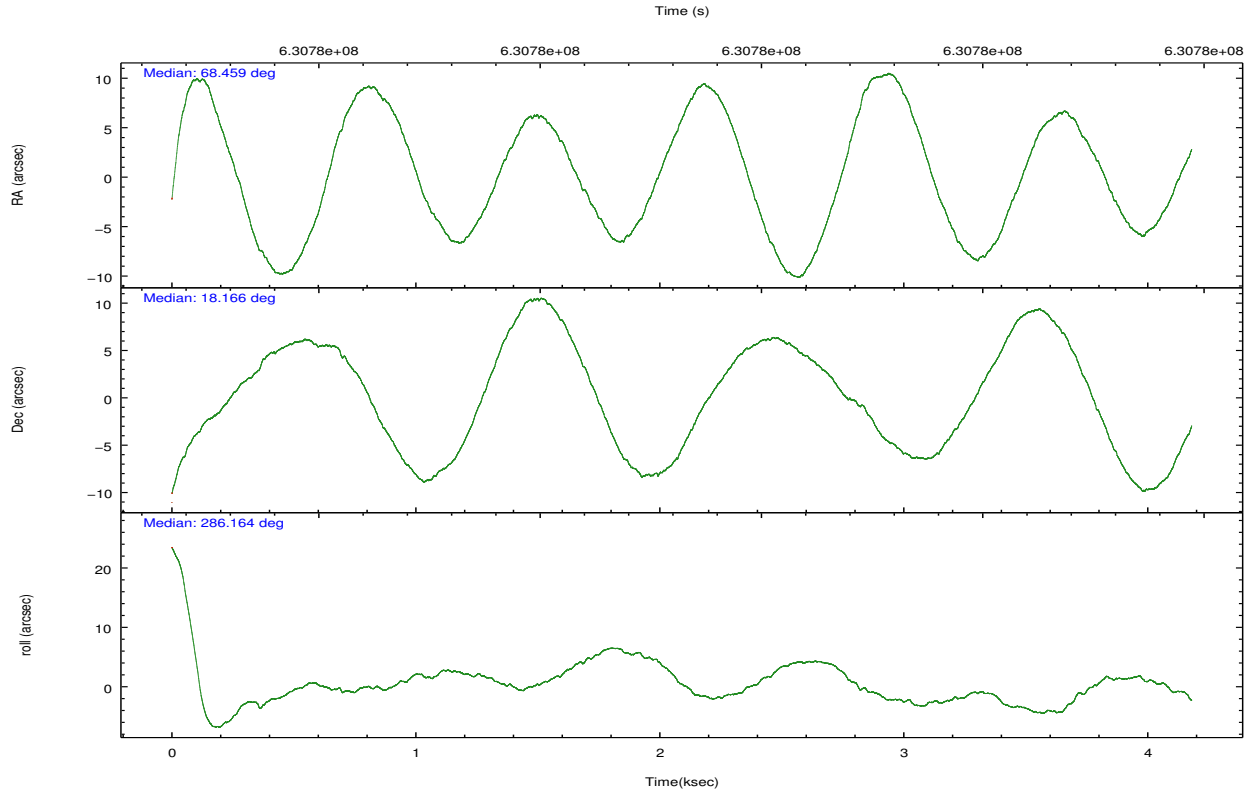
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-7	ACIS-7
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	68.437902	68.45901339865534
[deg] Pointing Dec	18.185078	18.16626092702185
[deg] Pointing Roll	286.021316	286.171456322218
[s] Window start time (MET)	630712869.184000	630712869.184000
[s] Window stop time (MET)	630885669.184000	630885669.184000
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-190.132523	-190.1400660498719
[mm] SIM translation stage offset	0	0.00754346686406393
[s] Observation start time (MET)	630774743.184000	630773298.69227
Observation start date	2017-12-27T15:11:14	2017-12-27T14:48:18
[s] Observation end time (MET)	630778743.184000	630778892.6301
Observation end date	2017-12-27T16:17:54	2017-12-27T16:21:32
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
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	0.000000	3

2.3 Aspect



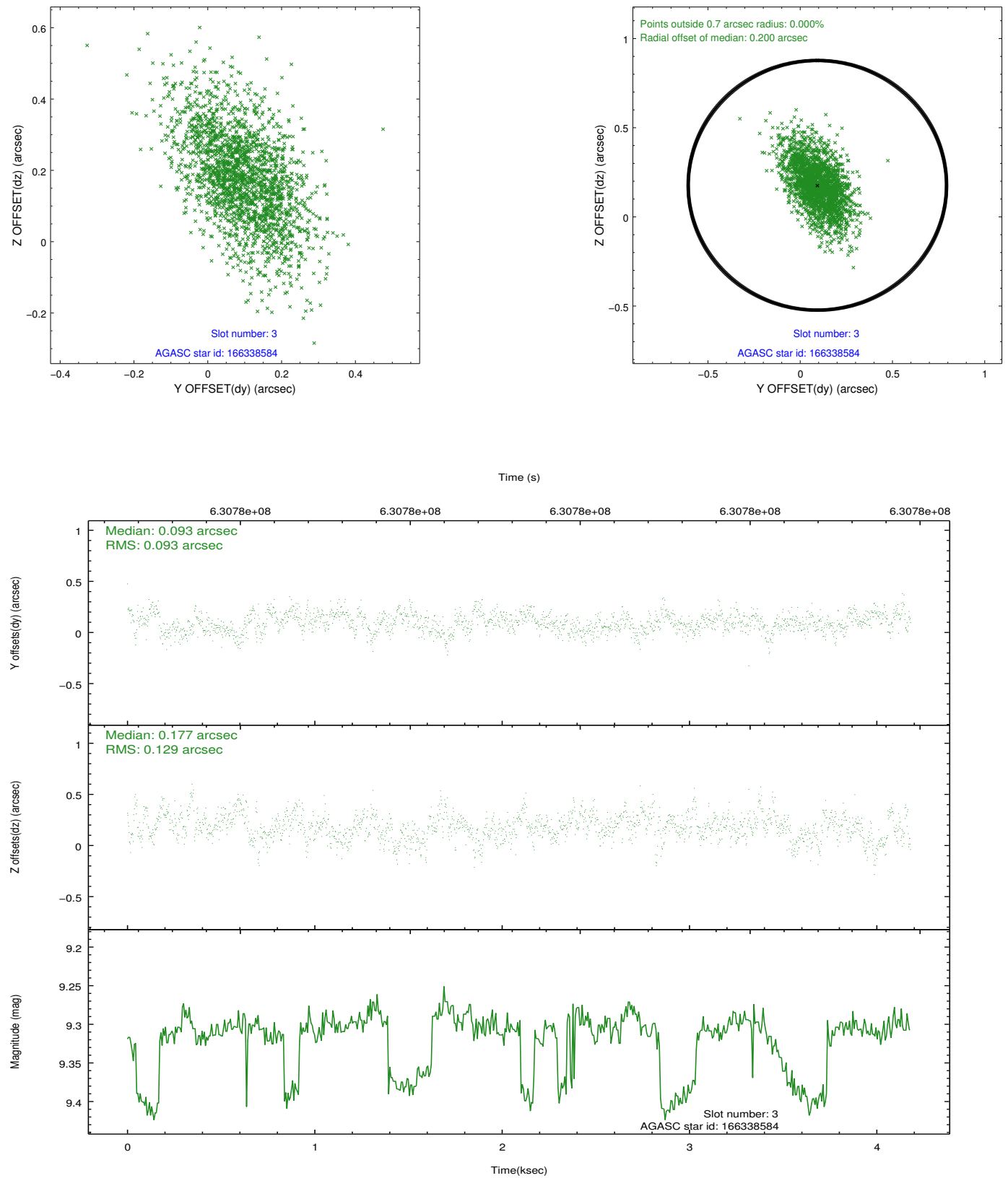


Slot Statistics

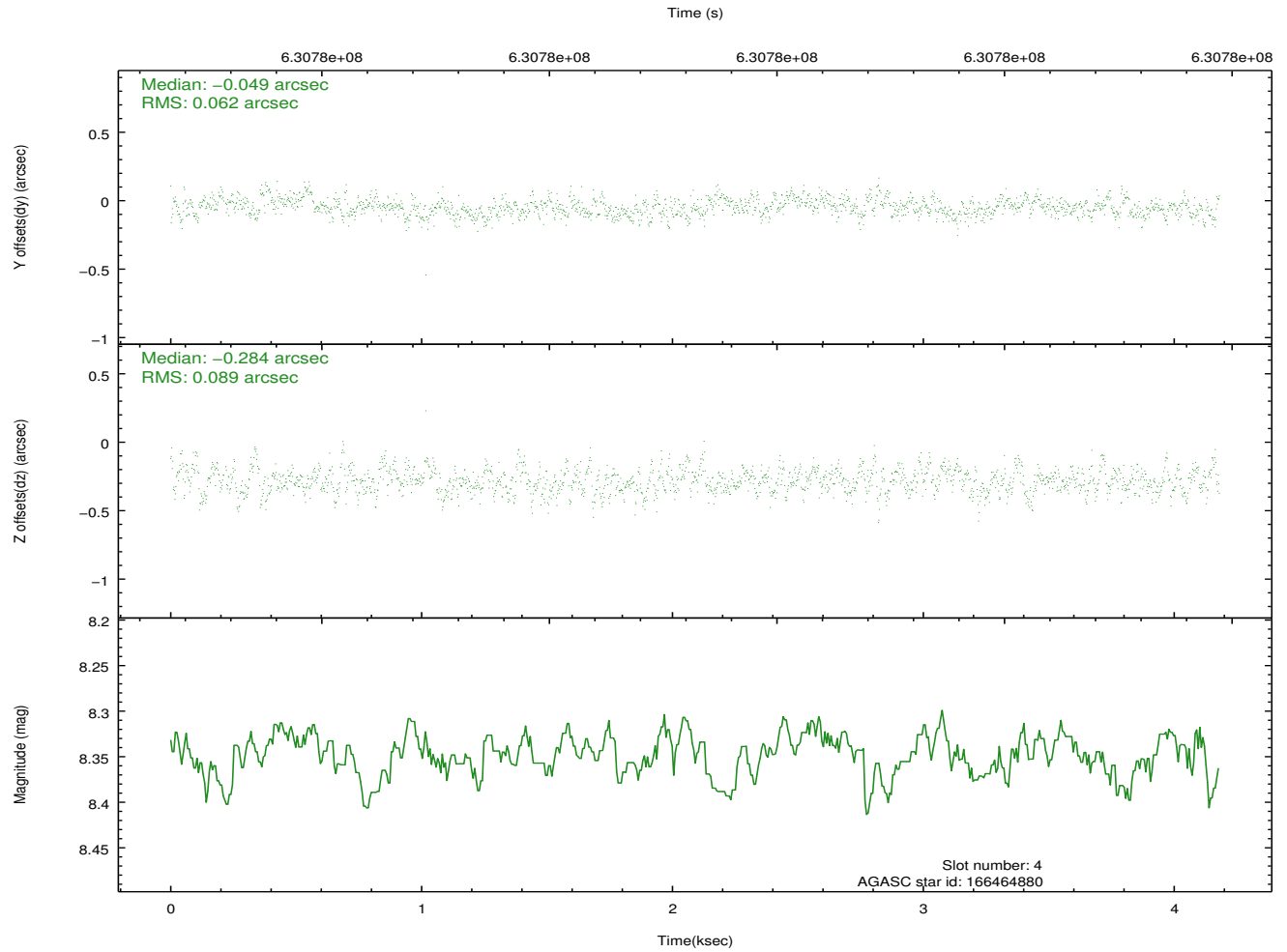
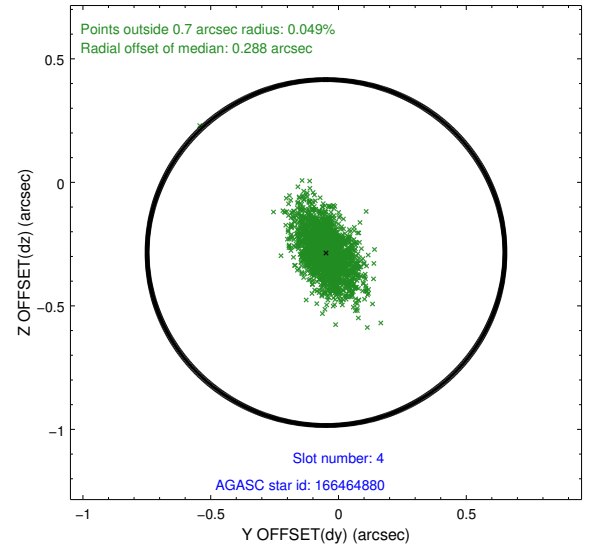
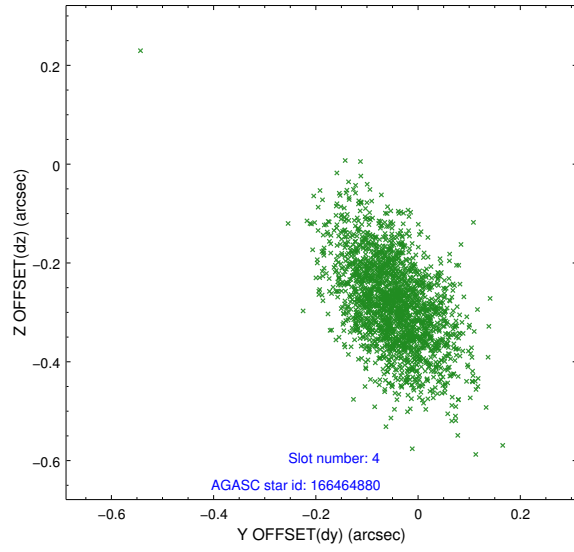
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.97	1020	-0.194	-0.054	0.012	0.019	0.000000	0.000000	-769.45	-1742.87
1	FID		ACIS-S-4	7.10	1020	0.409	0.108	0.007	0.013	0.000000	0.000000	2143.73	164.25
2	FID		ACIS-S-5	7.08	1020	-0.246	-0.046	0.011	0.017	0.000000	0.000000	-1820.46	159.43
3	GUIDE	used	166338584	9.31	2035	0.093	0.177	0.163	0.292	67.904616	17.709782	1139.06	-2227.33
4	GUIDE	used	166464880	8.35	2037	-0.049	-0.284	0.109	0.193	68.836504	17.817954	1646.59	947.58
5	GUIDE	used	166465472	8.32	2039	-0.004	0.072	0.123	0.218	68.719684	18.413404	-524.11	1152.71
6	GUIDE	used	166468240	9.03	2040	0.006	0.165	0.138	0.242	68.167699	17.861525	863.79	-1210.52
7	GUIDE	used	166472048	8.56	2039	-0.045	-0.135	0.121	0.214	69.128417	17.932418	1523.16	2022.92

2.4 Star Slots

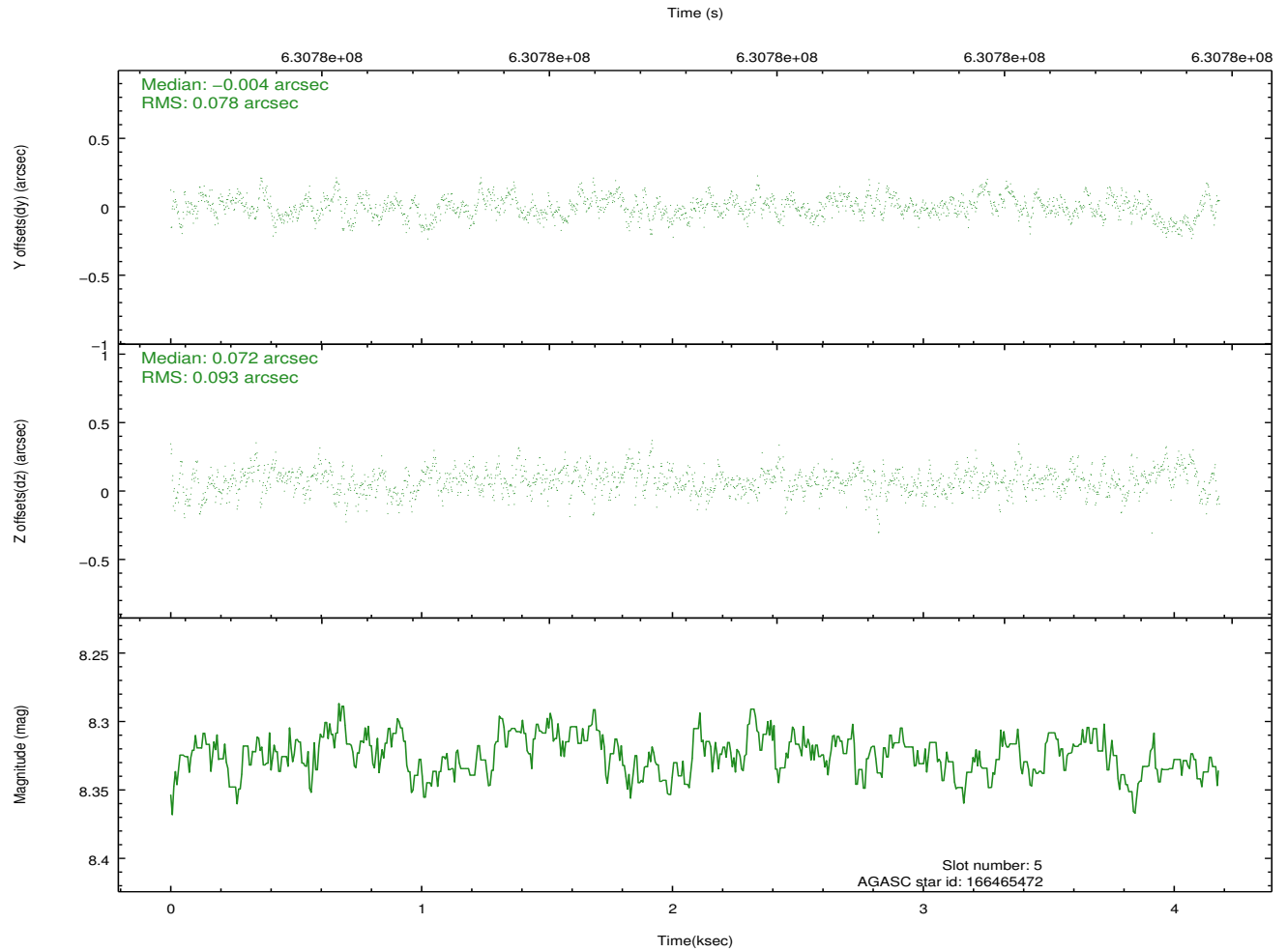
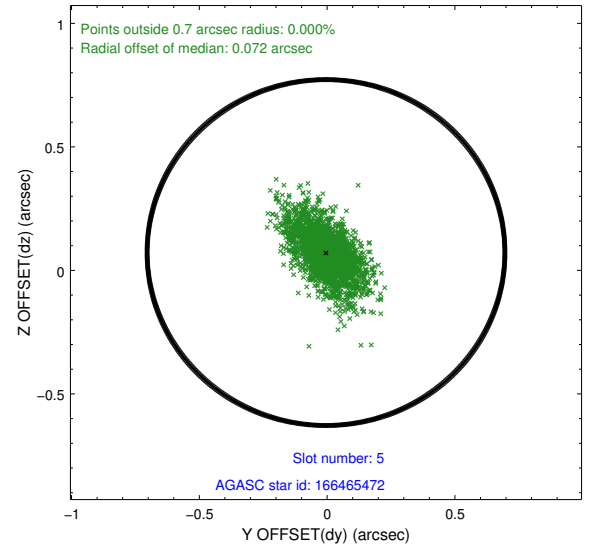
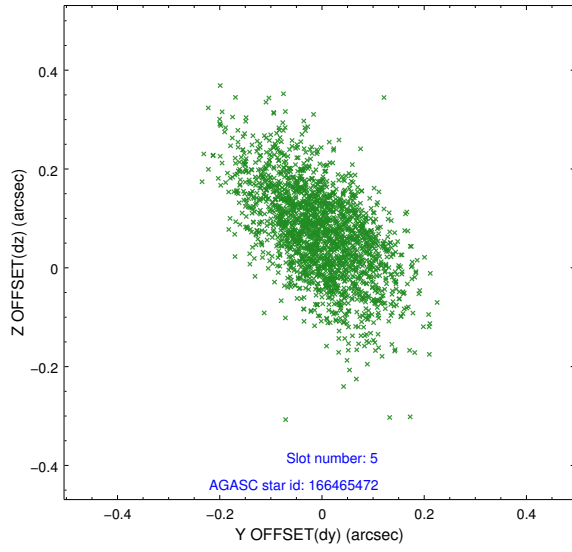
2.4.1 Slot 3



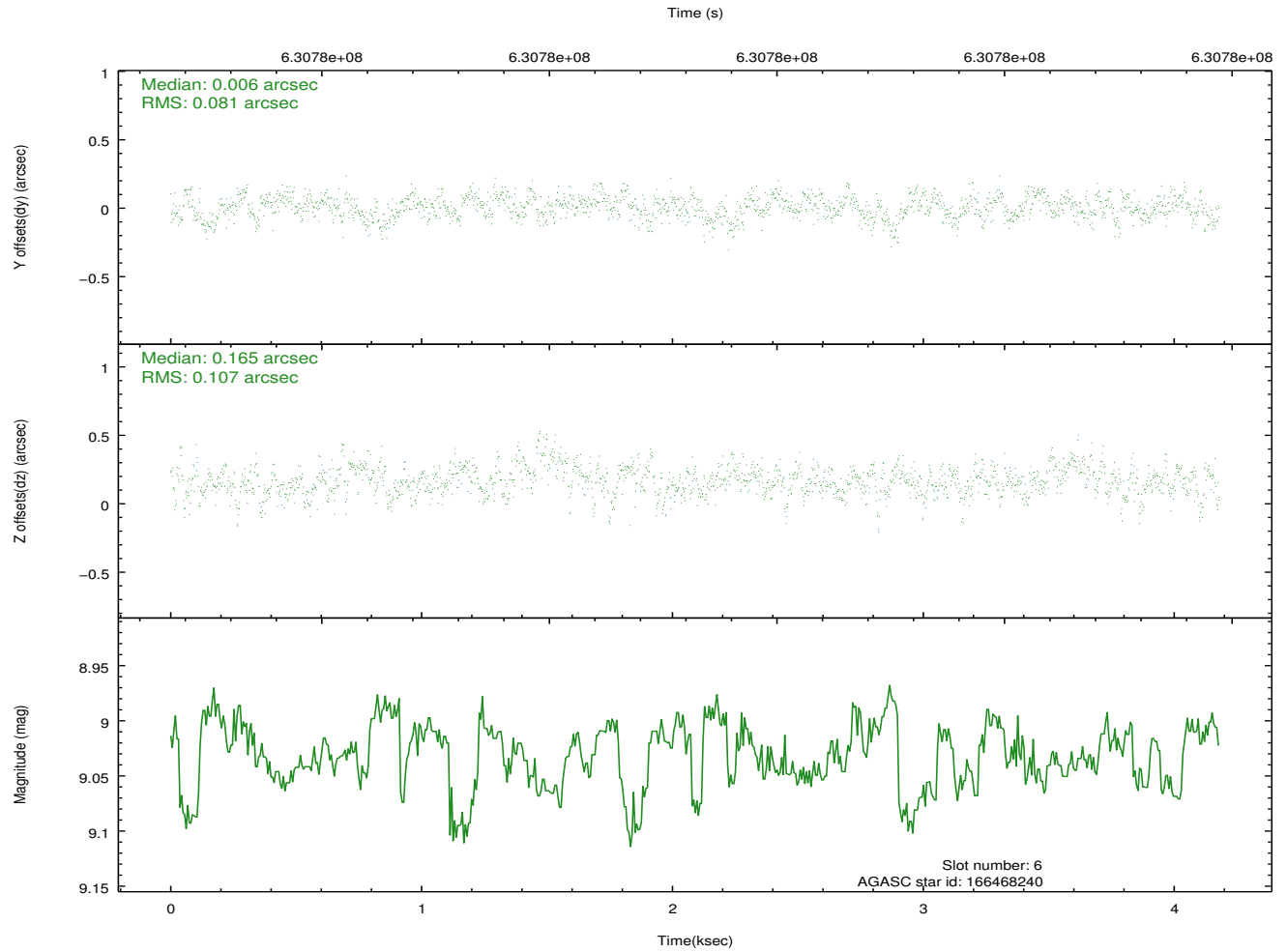
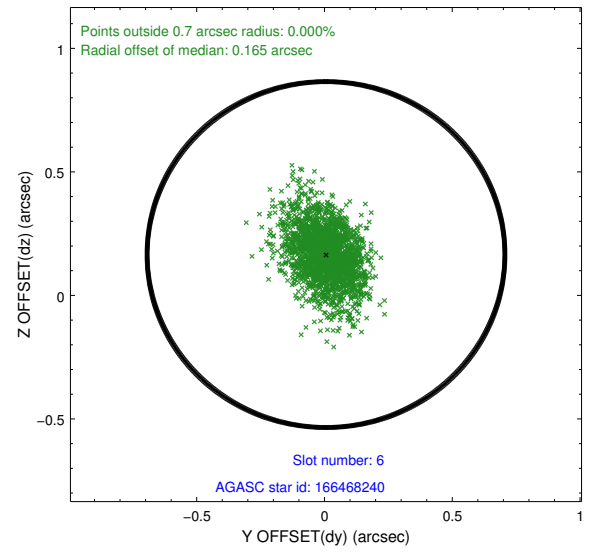
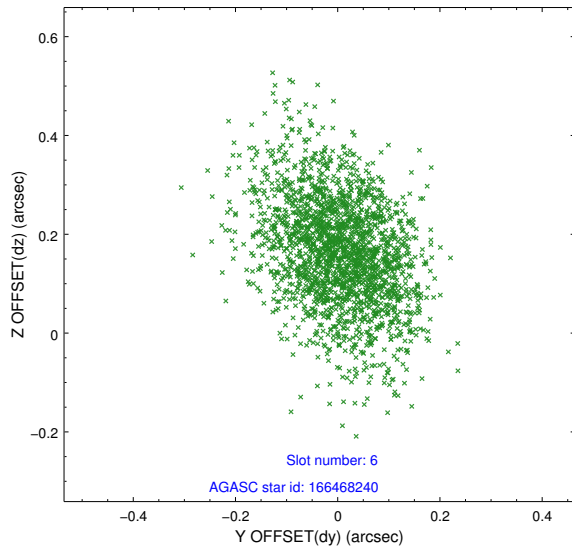
2.4.2 Slot 4



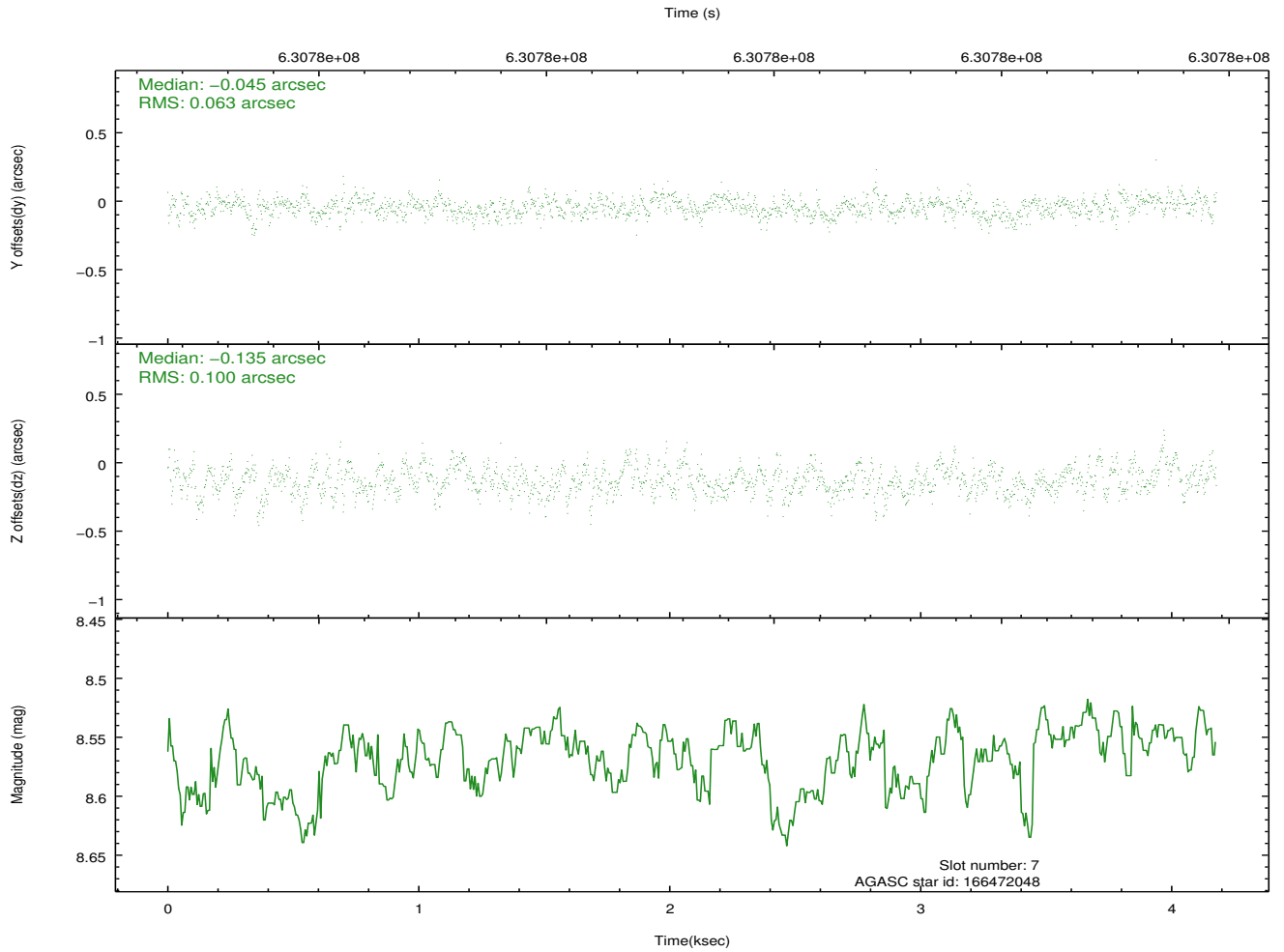
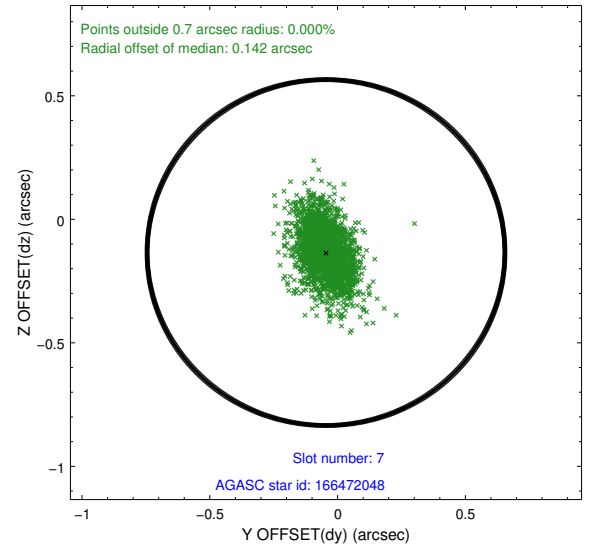
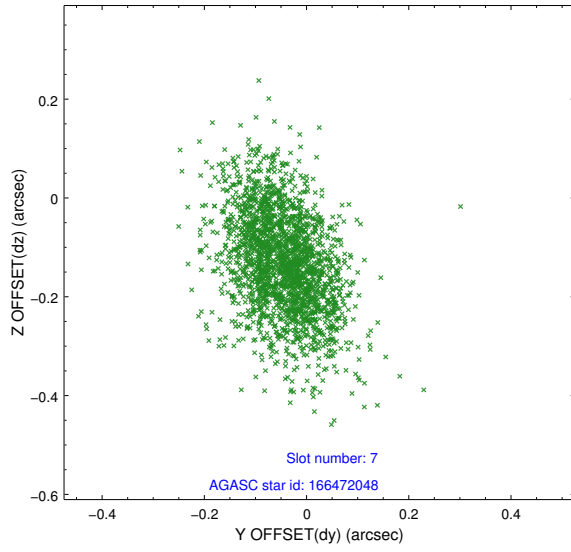
2.4.3 Slot 5



2.4.4 Slot 6

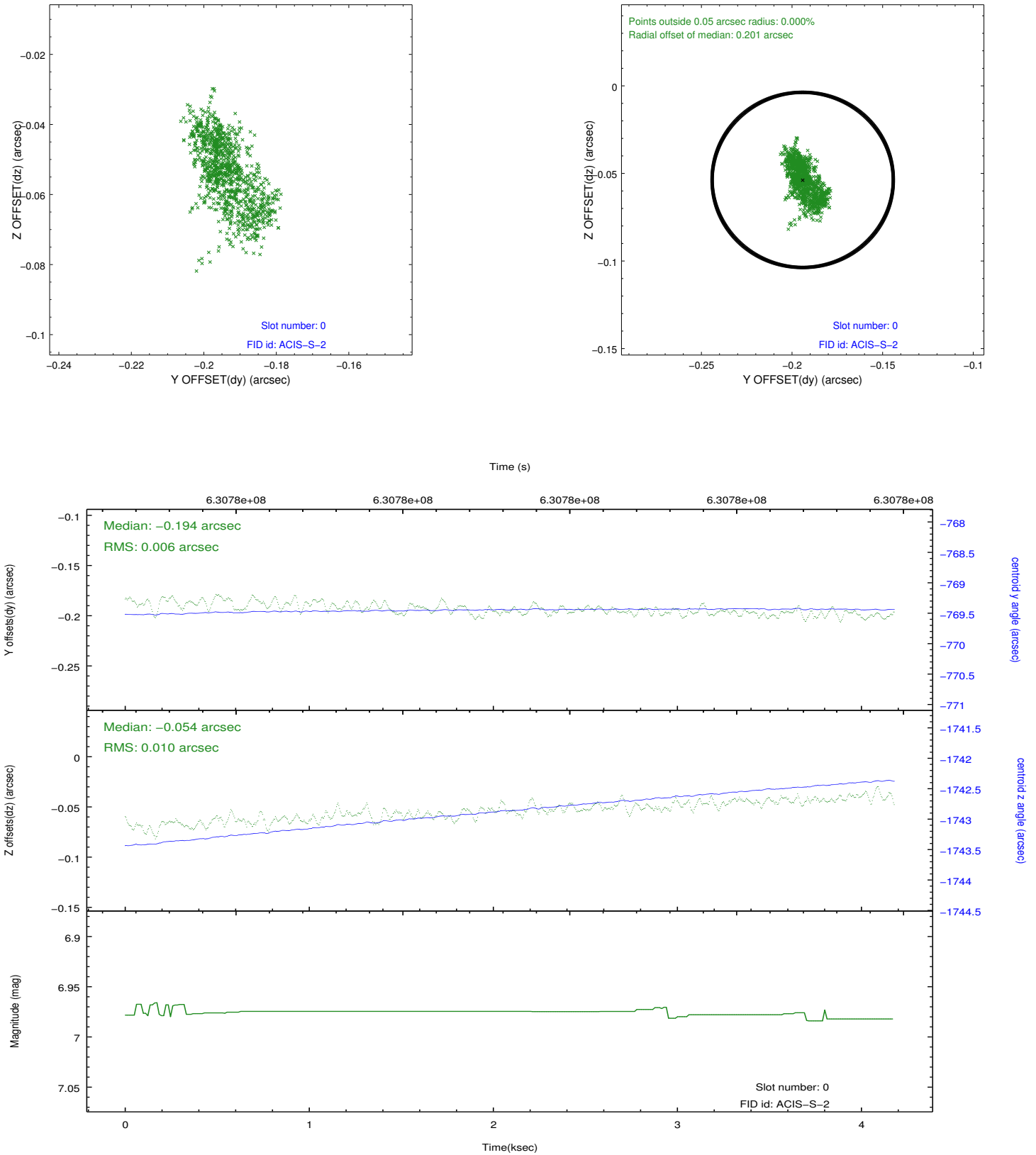


2.4.5 Slot 7

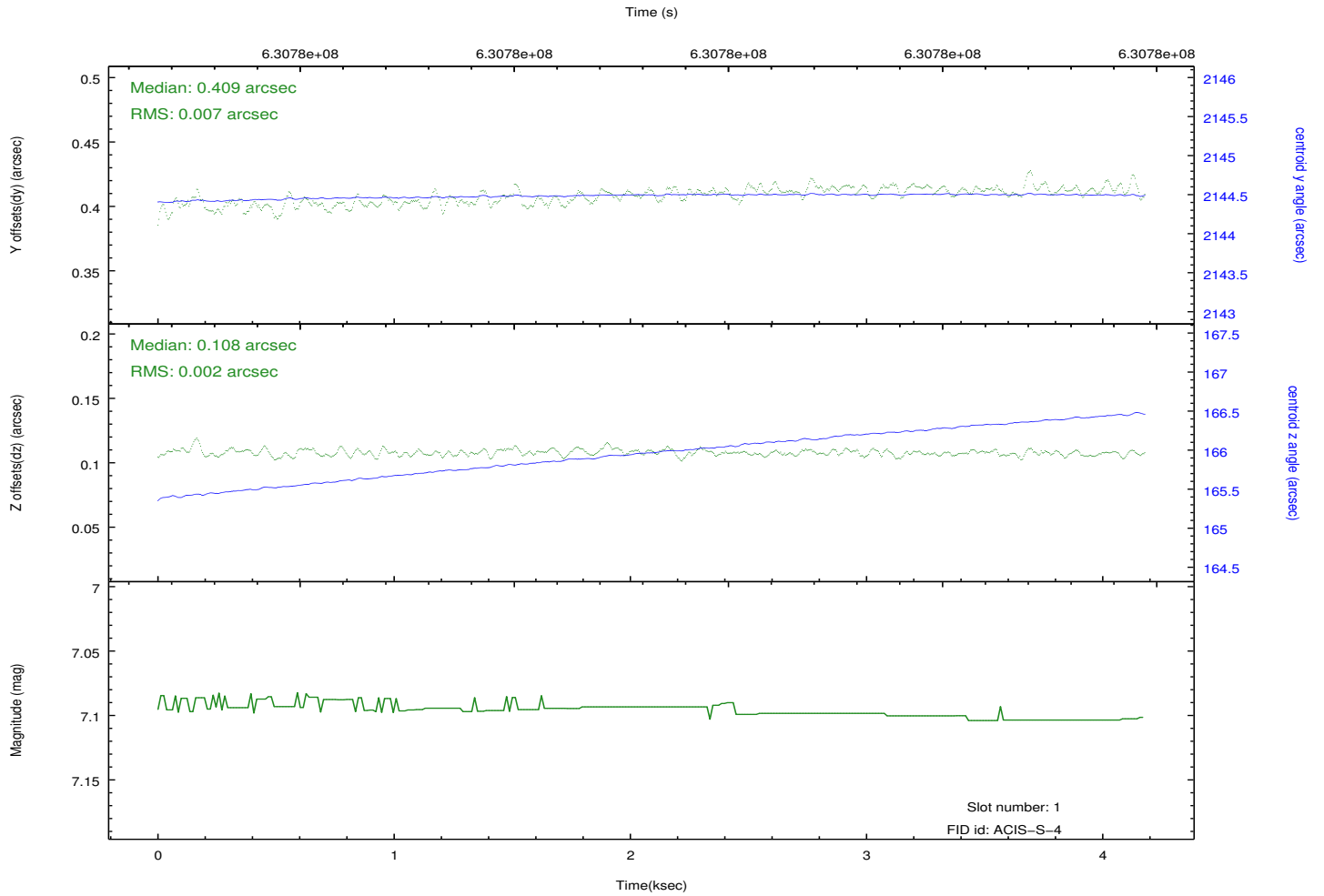
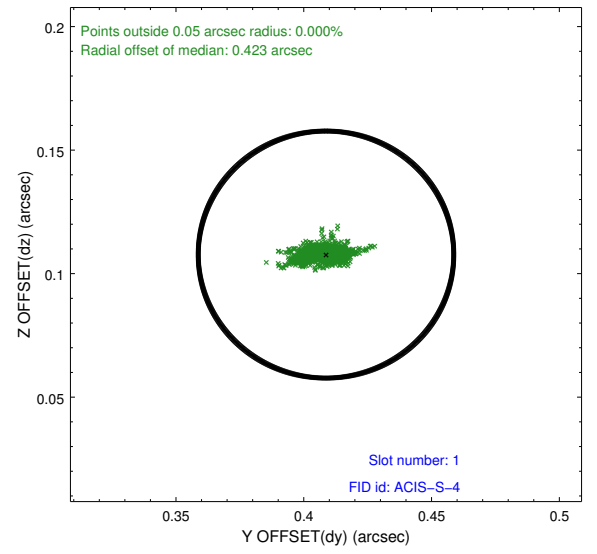
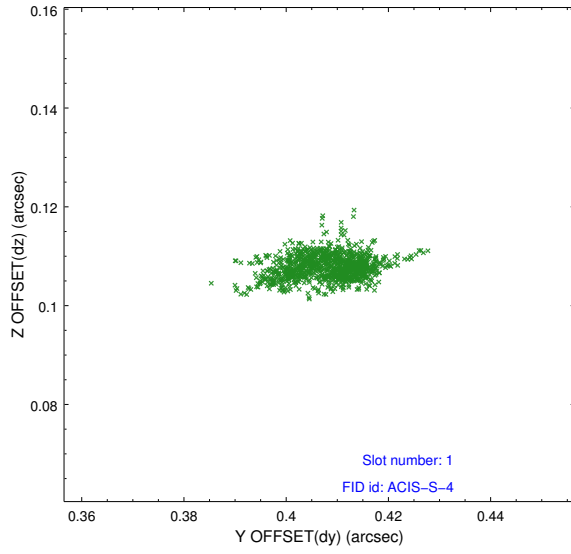


2.5 FID Slots

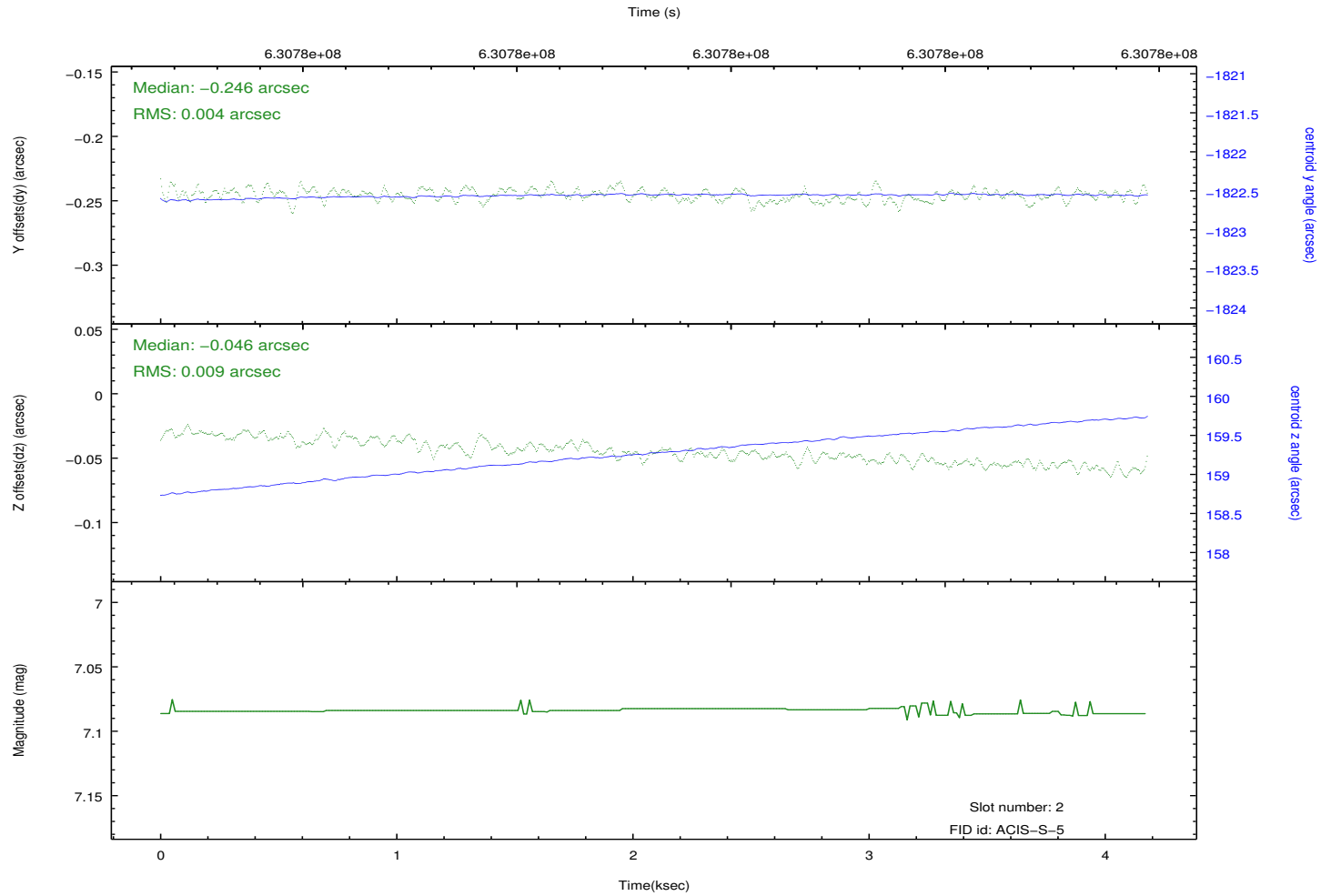
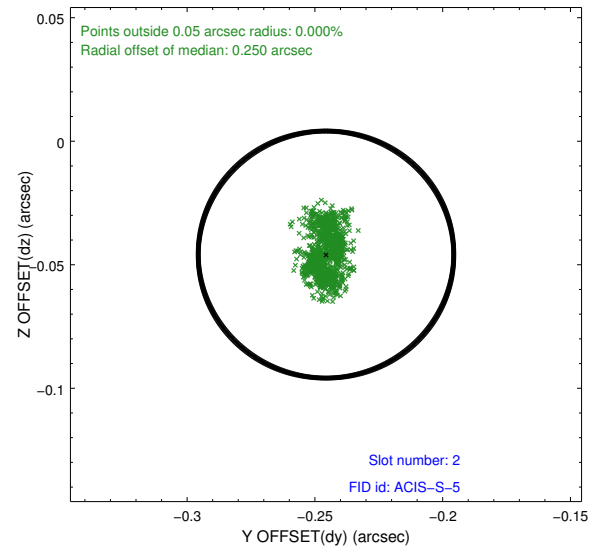
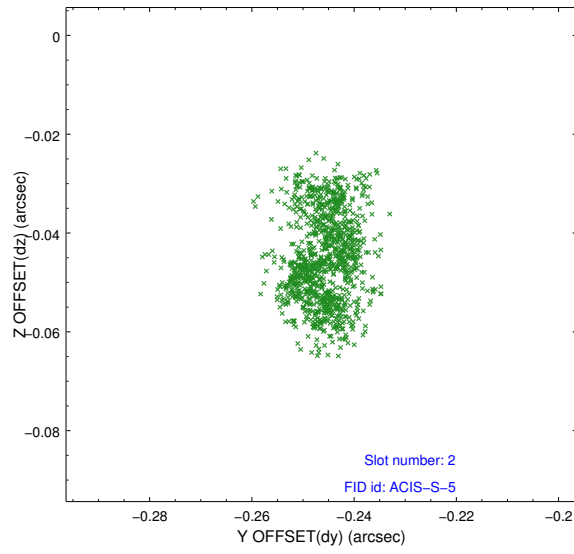
2.5.1 Slot 0



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)	2017.12.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.0908676873446

A.2 Comments

Window preference met.