

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 6283 - L2 Version 4
Chandra X-Ray Center

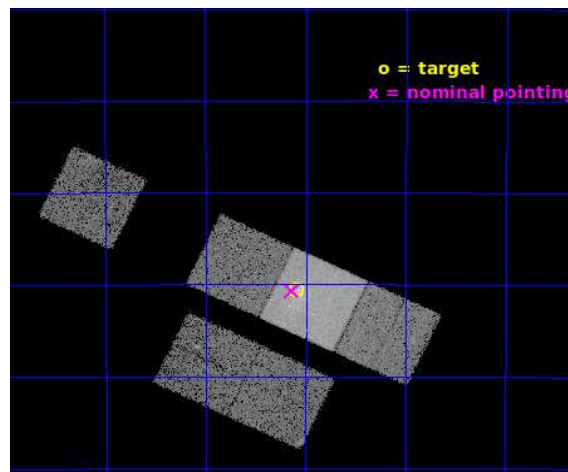
L2 Processing Date : Oct 8 2020

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1 Front

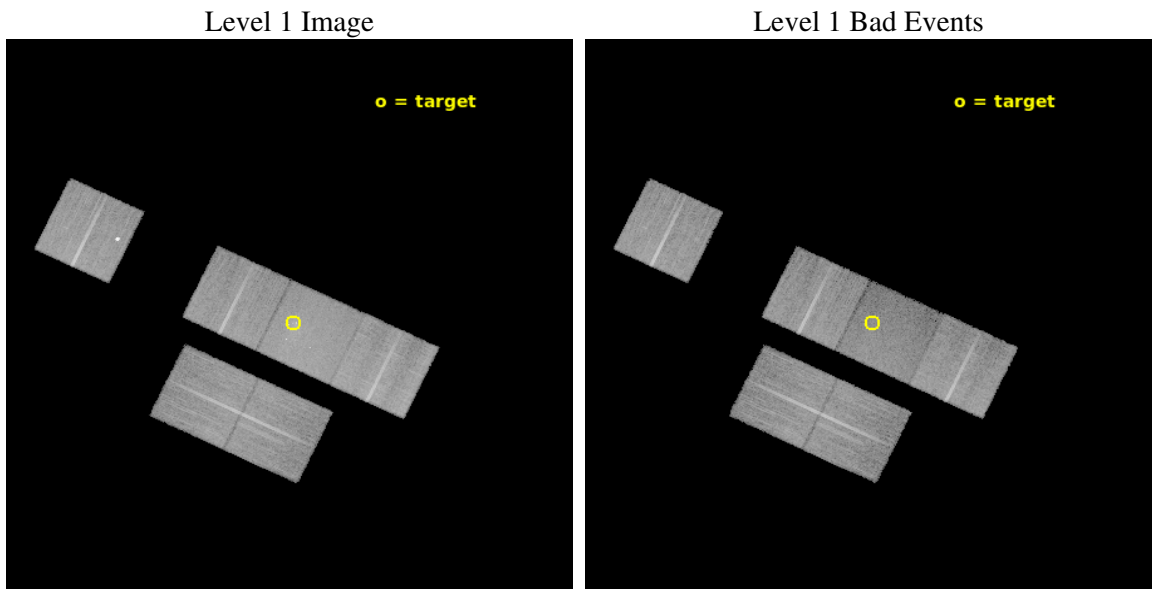
seq_num	200344	Sequence number
obs_id	6283	Observation id
title	A Rich Population of Massive Young Stars in the Cluster Westerlund 1	
observer	Stephen Skinner	Principal investigator
object	Westerlund1	Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	251.7725	Observer's specified target RA [deg]
dec_targ	-45.843528	Observer's specified target Dec [deg]
ra_nom	251.78457884462	Nominal RA [deg]
dec_nom	-45.844613410498	Nominal Dec [deg]
roll_nom	25.568417160511	Nominal Roll [deg]
revision	4	Processing version of data
ontime	19048.863116205	Sum of GTIs [s]
livetime	18807.654941579	Livetime [s]
ontime2	19048.698956221	Sum of GTIs [s]
ontime3	19048.781036198	Sum of GTIs [s]
ontime4	19045.663156033	Sum of GTIs [s]
ontime6	19048.822076201	Sum of GTIs [s]
ontime7	19048.863116205	Sum of GTIs [s]
ontime8	19048.739996195	Sum of GTIs [s]
l2events	127035	Number of level 2 events



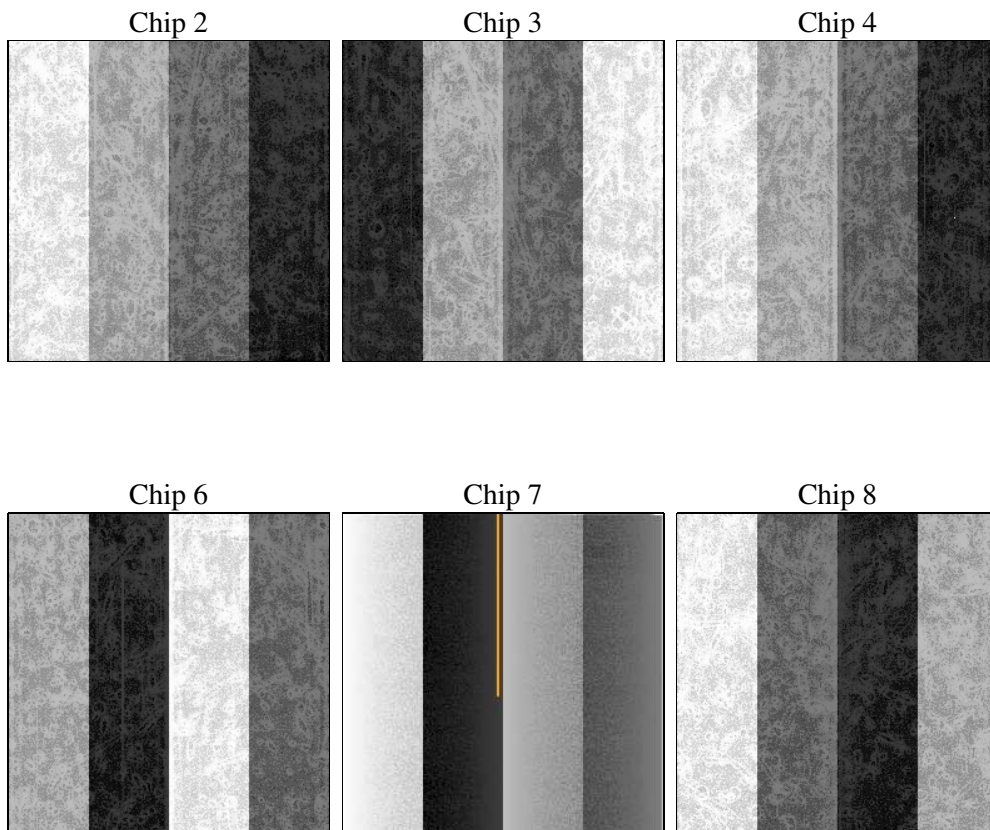
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	19000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	19048.863116205	Sum of GTIs [s]
caldsver	4.9.2	 	ontime2	19048.698956221	Sum of GTIs [s]
date	2020-10-08T11:56:58	Date and time of file creation	ontime3	19048.781036198	Sum of GTIs [s]
revision	4	Processing version of data	ontime4	19045.663156033	Sum of GTIs [s]
			ontime6	19048.822076201	Sum of GTIs [s]
			ontime7	19048.863116205	Sum of GTIs [s]
			ontime8	19048.739996195	Sum of GTIs [s]
			l1events	769342	Number of level 1 events

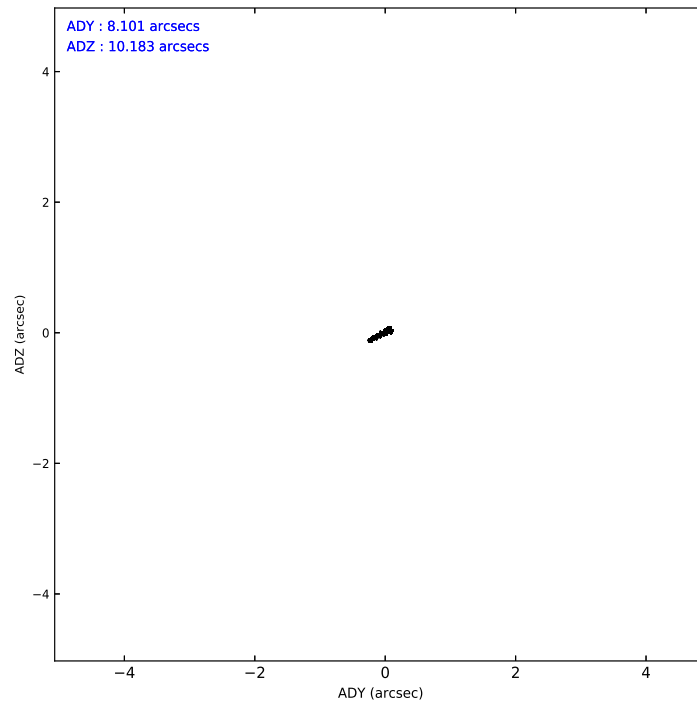
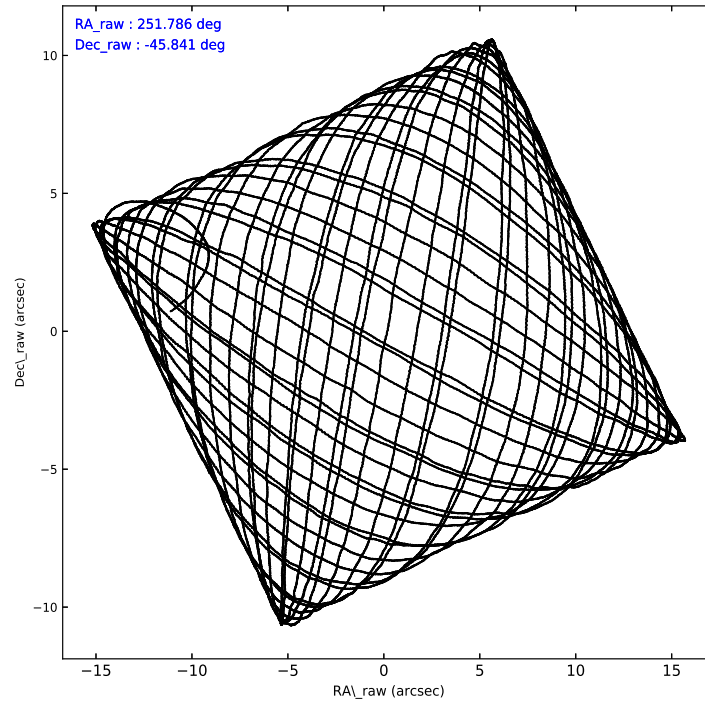
2.1.4 Events

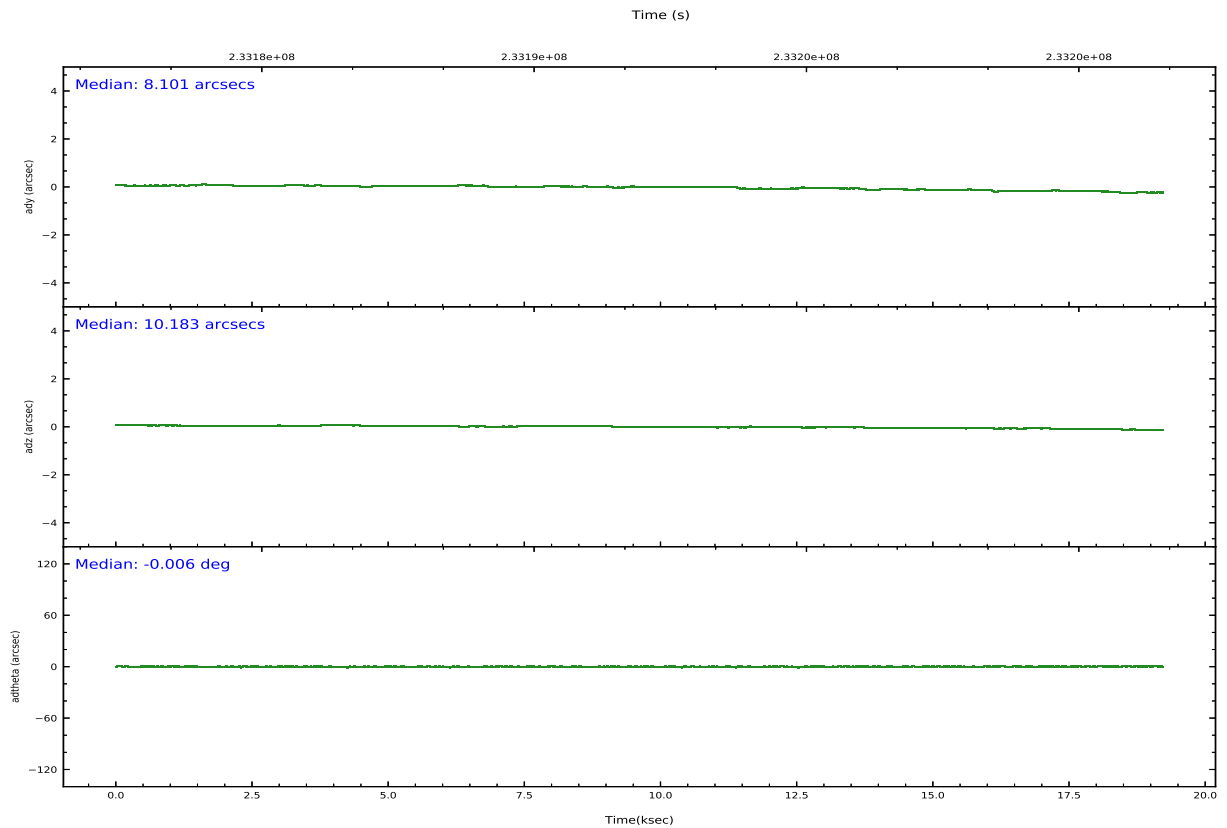
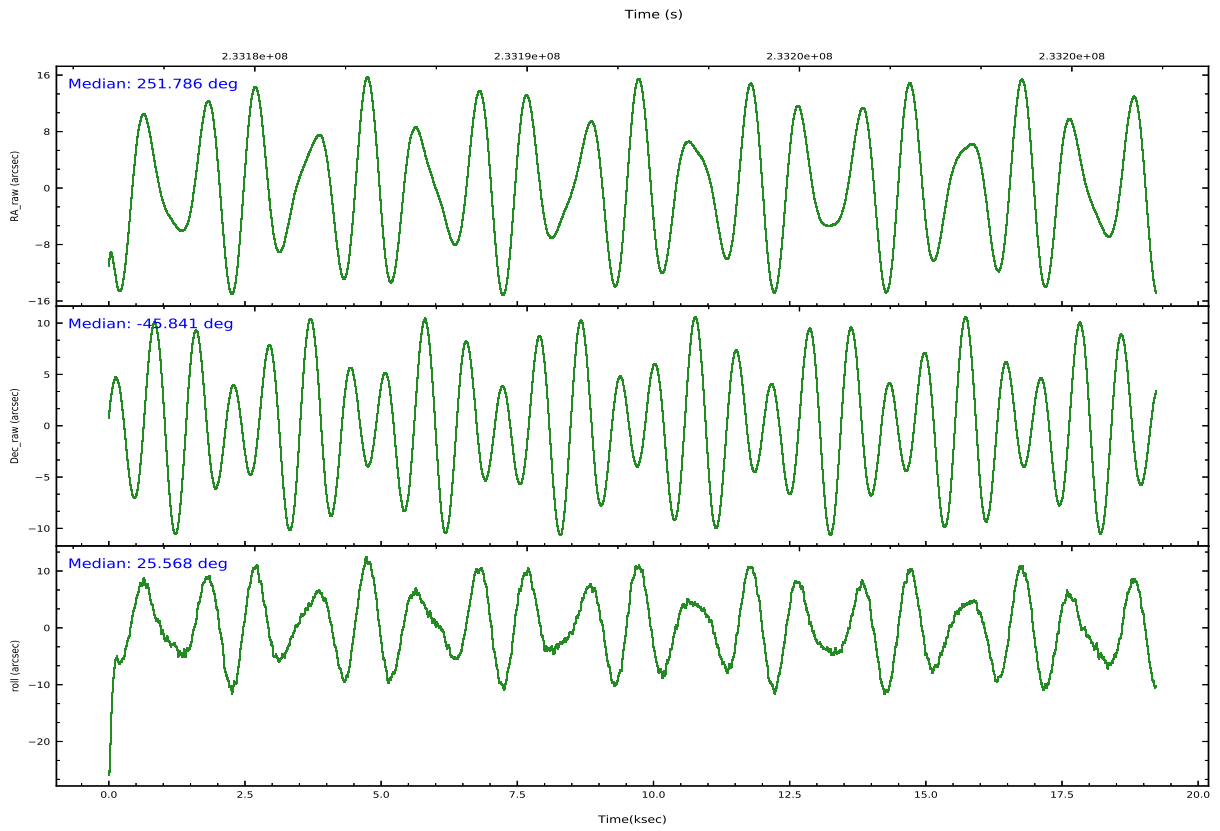
	ccd 2	ccd 3	ccd 4	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 4	ccd 6	ccd 7	ccd 8
level 1 events	114792	112004	138298	118505	138034	147709	grade 0 events	5181	4857	10638	6495	7621	13491
rejected events	102521	99854	119957	103509	69322	109736		4%	4%	7%	5%	5%	9%
rejected %	89%	89%	86%	87%	50%	74%	grade 1 events	70	56	150	70	118	121
								0%	0%	0%	0%	0%	0%
							grade 2 events	2626	2509	2944	2987	14578	7936
								2%	2%	2%	2%	10%	5%
							grade 3 events	1229	1310	1402	1433	6749	3767
								1%	1%	1%	1%	4%	2%
							grade 4 events	1200	1278	1322	1407	6654	3561
								1%	1%	0%	1%	4%	2%
							grade 5 events	3644	4544	4303	4737	13622	6590
								3%	4%	3%	3%	9%	4%
							grade 6 events	2040	2198	2043	2681	33126	9221
								1%	1%	1%	2%	23%	6%
							grade 7 events	98802	95252	115496	98695	55566	103022
								86%	85%	83%	83%	40%	69%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-234678	ACIS-234678	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	251.764201	251.78457884462	Subarray requested	NONE	NONE
[deg] Pointing Dec	-45.863616	-45.844613410498	Alternating exposures requested	N	N
[deg] Pointing Roll	25.392476	25.568417160511	[s] Primary exposure time	0.000000	3.2
[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)	233182548.184000	233181519.51762			
Observation start date	2005-05-22T20:54:44	2005-05-22T20:38:39			
[s] Observation end time (MET)	233201548.184000	233202399.28108			
Observation end date	2005-05-23T02:11:24	2005-05-23T02:26:39			
Read mode	TIMED	TIMED			

2.3 Aspect





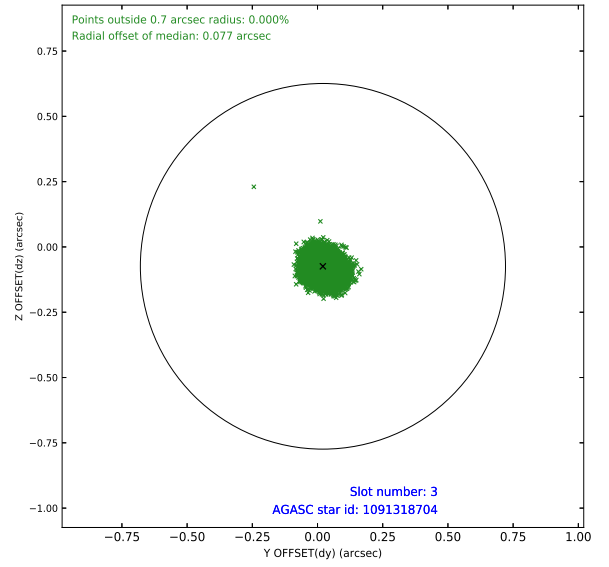
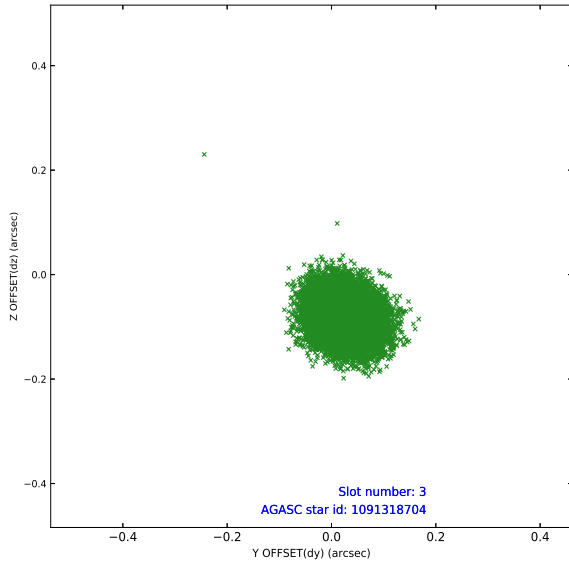
Slot Statistics

slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.10	4690	1.000	-0.075	-0.067	0.006	0.011	0.000000	0.000000	-760.84	-1731
1	FID		ACIS-S-4	7.21	4690	1.000	0.187	0.054	0.007	0.012	0.000000	0.000000	2152.52	176
2	FID		ACIS-S-5	7.23	4690	1.000	-0.144	0.022	0.008	0.015	0.000000	0.000000	-1813.58	170
3	GUIDE	used	1091318704	7.61	9381	1.000	0.021	-0.074	0.057	0.091	251.955714	-45.390313	1168.19	1331
4	GUIDE	used	1091321136	8.54	9376	1.000	-0.068	0.078	0.068	0.109	252.629031	-45.865288	1951.37	-945
5	GUIDE	used	1091321752	6.94	9381	1.000	0.006	-0.049	0.045	0.072	251.516776	-46.486101	-1514.73	-1762
6	GUIDE	used	1091341680	8.43	9380	1.000	0.034	0.098	0.065	0.101	251.240217	-46.114317	-1569.97	-258
7	GUIDE	used	1091343368	6.91	9380	1.000	0.005	-0.051	0.054	0.078	251.526552	-46.531998	-1563.72	-1922

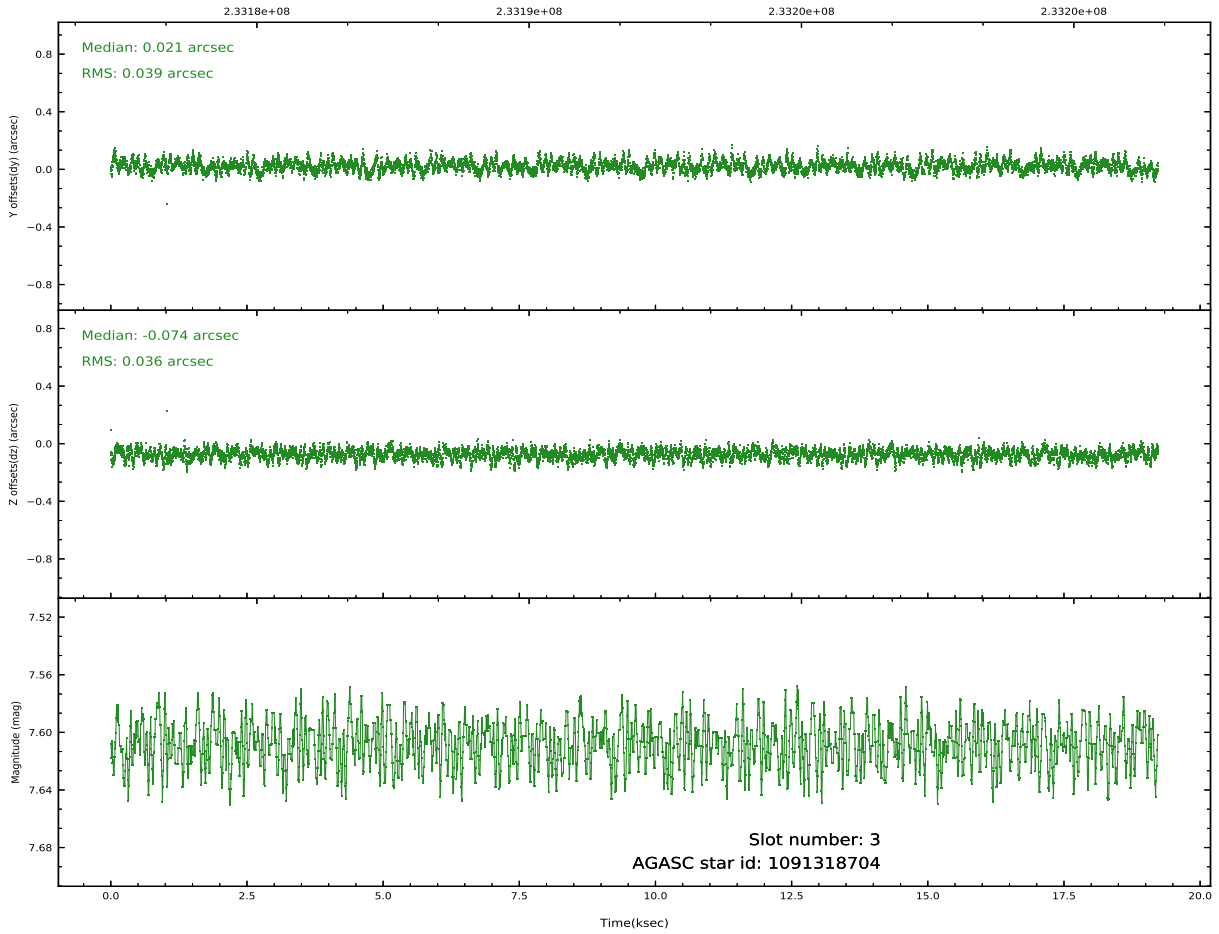
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2.4 Star Slots

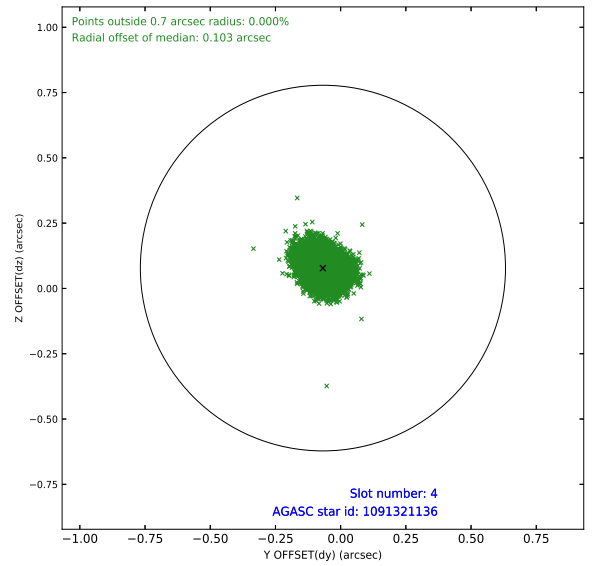
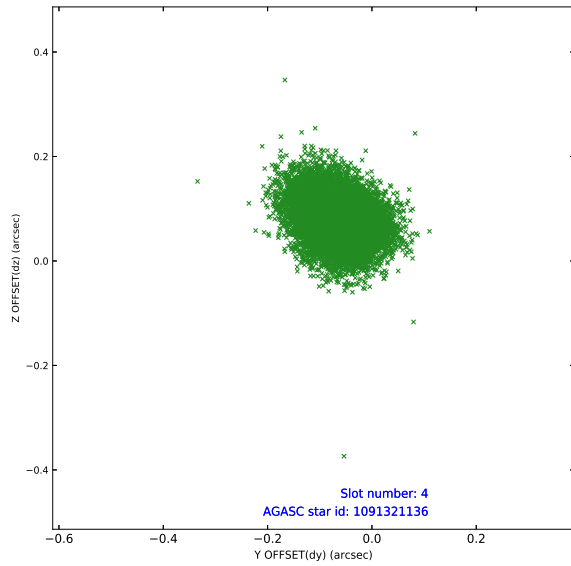
2.4.1 Slot 3



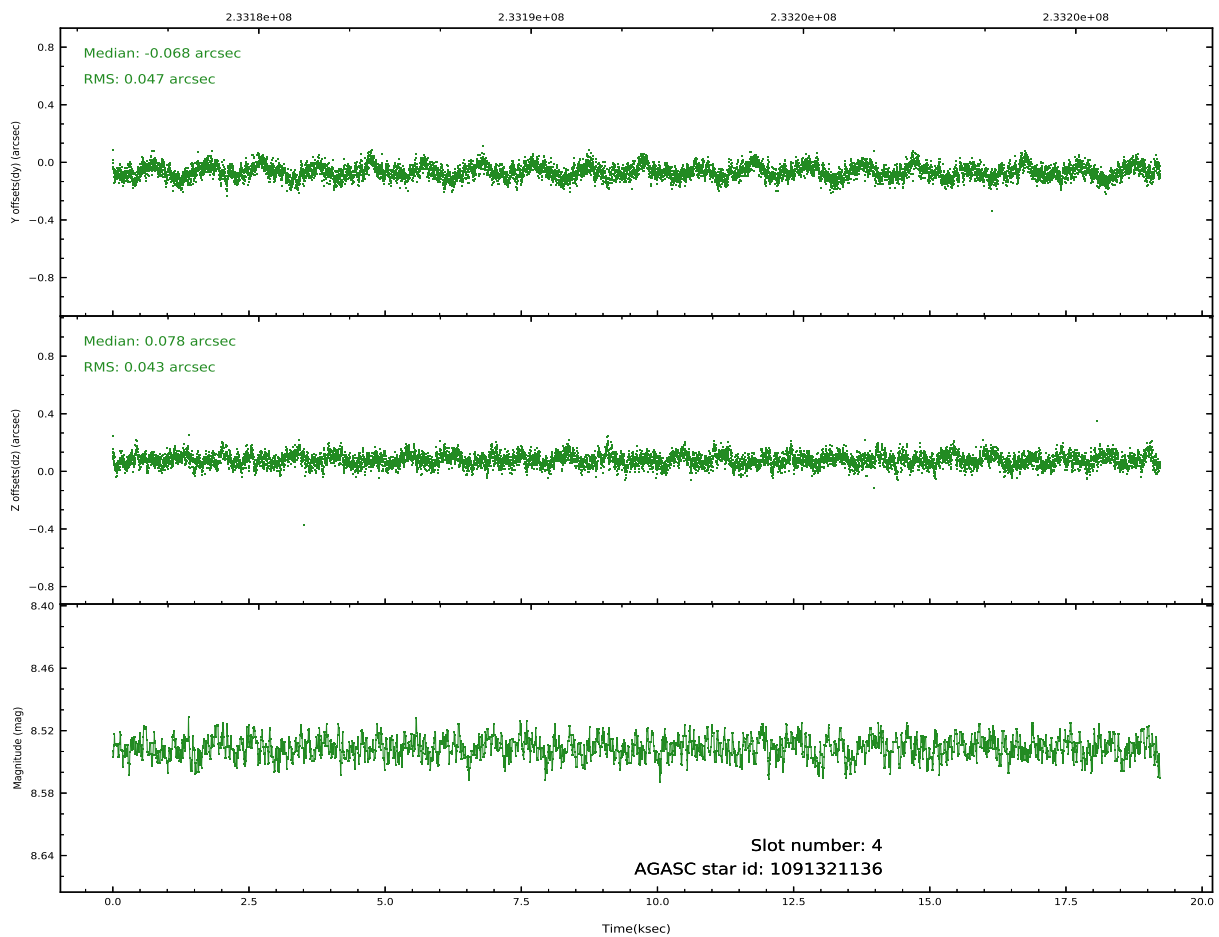
Time (s)



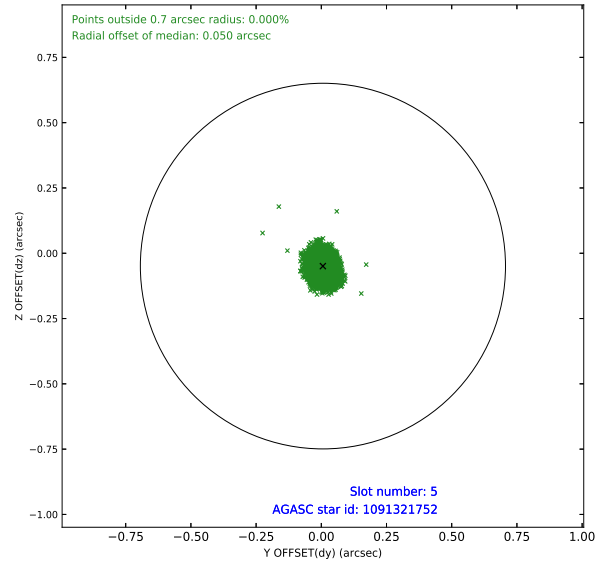
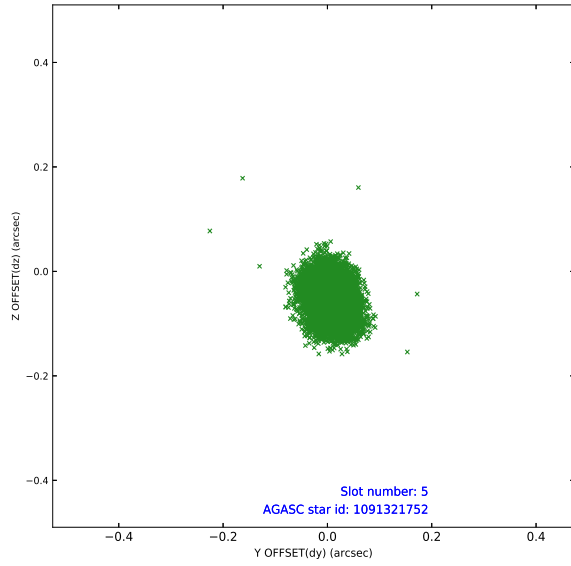
2.4.2 Slot 4



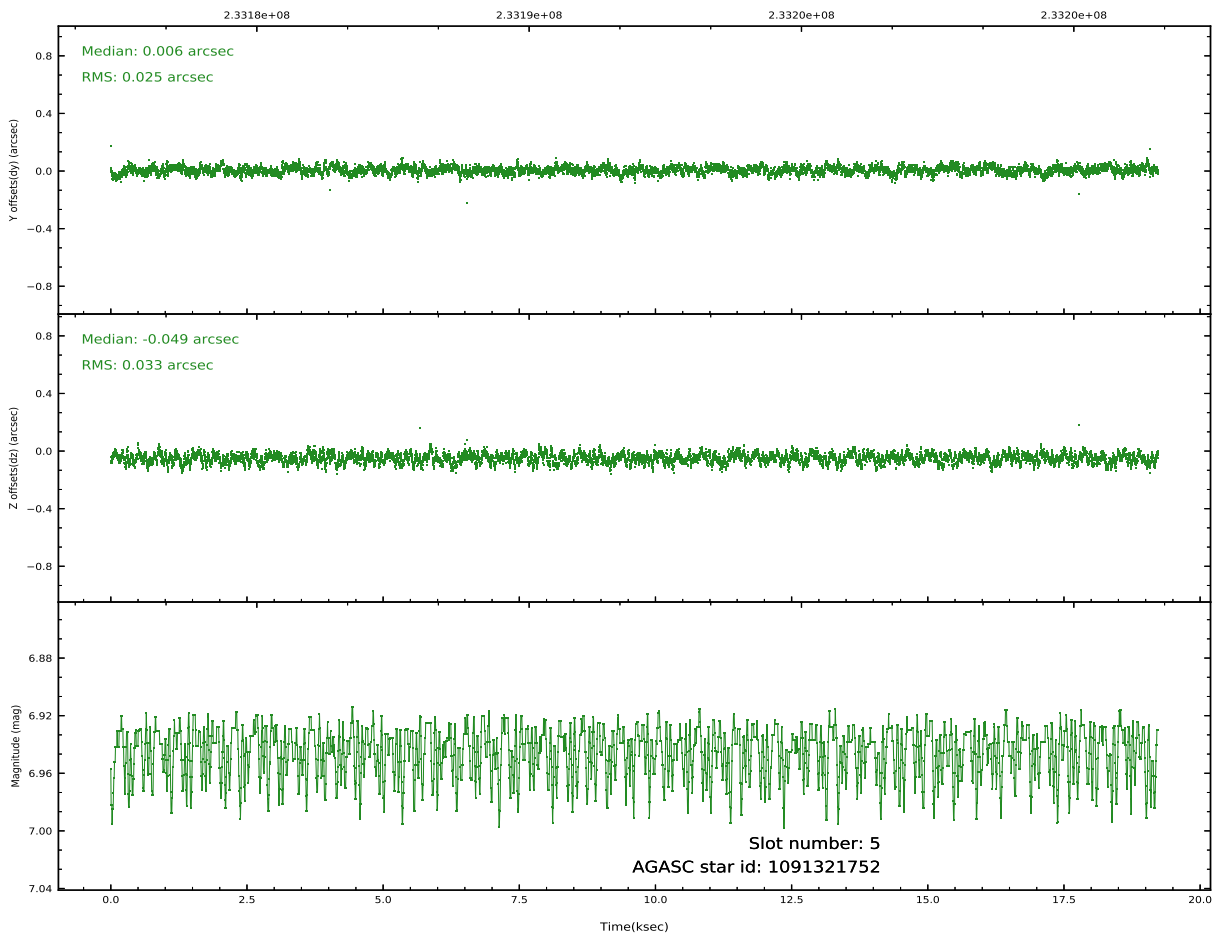
Time (s)



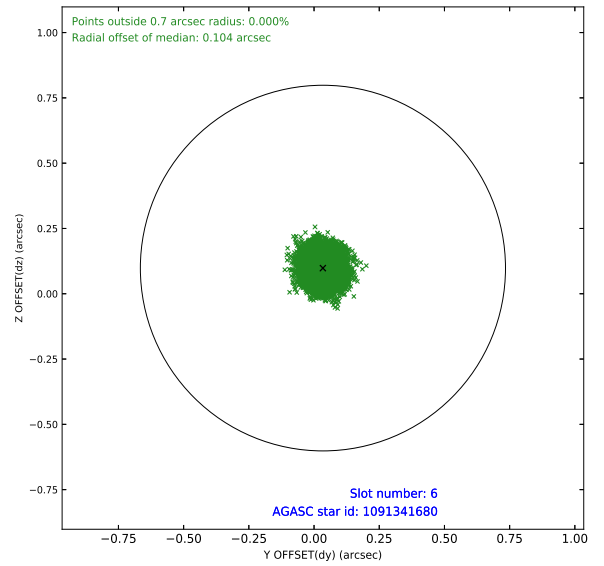
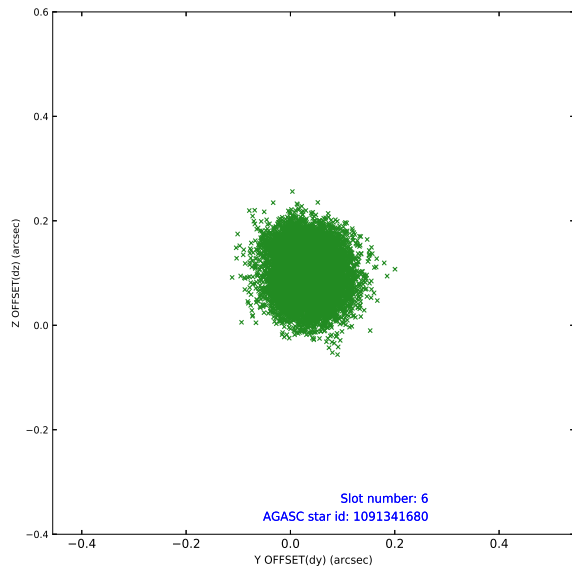
2.4.3 Slot 5



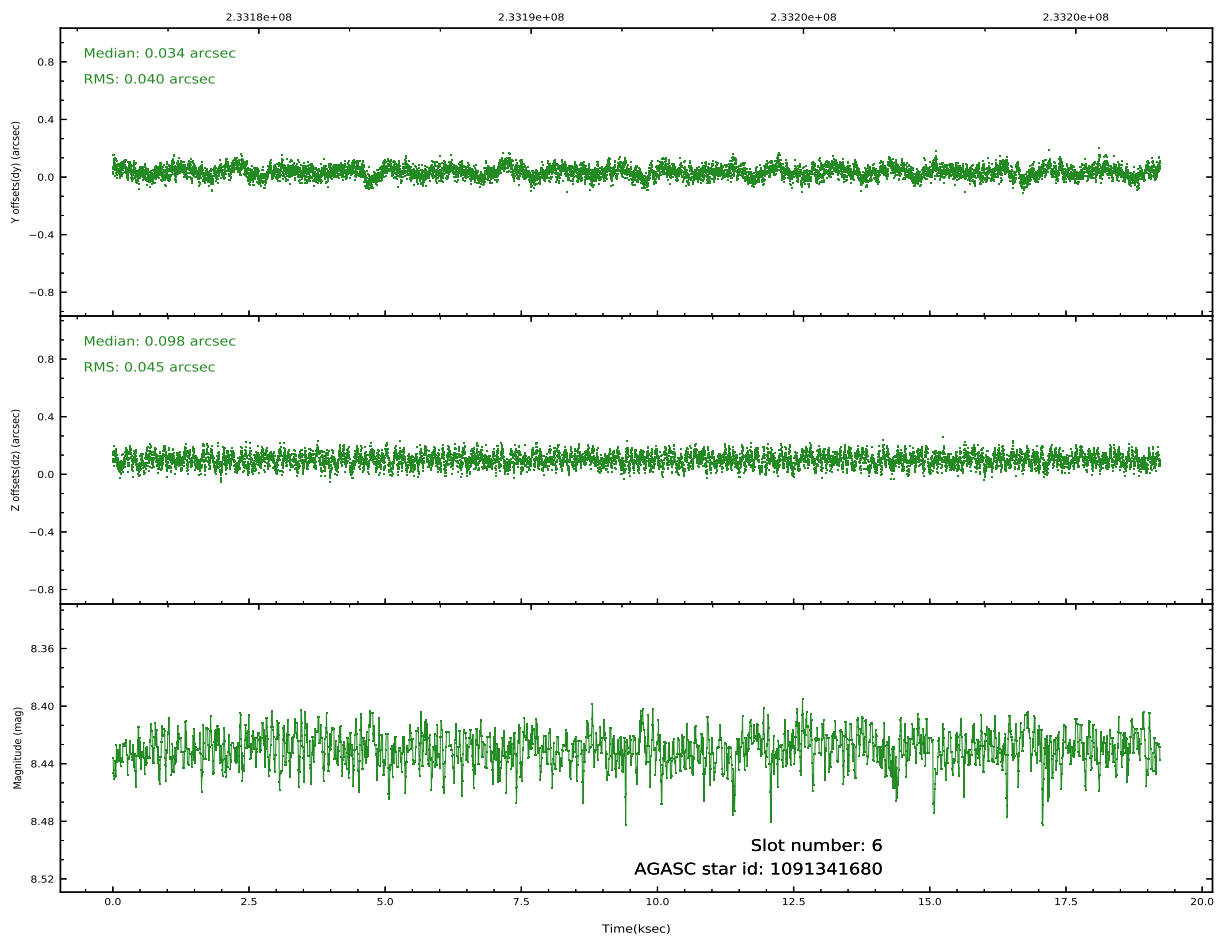
Time (s)



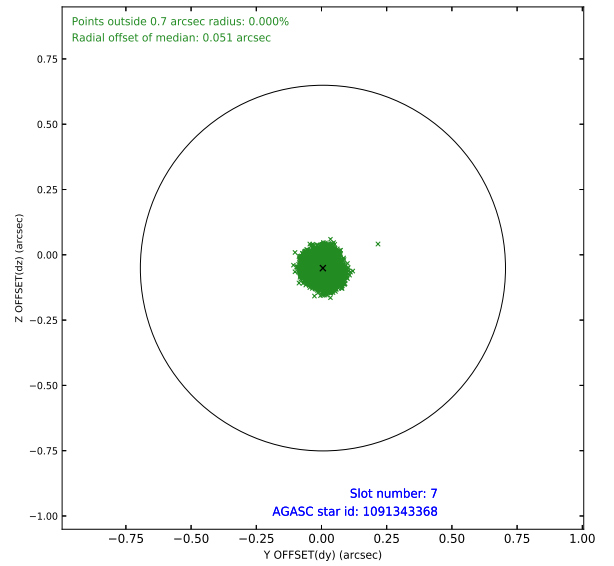
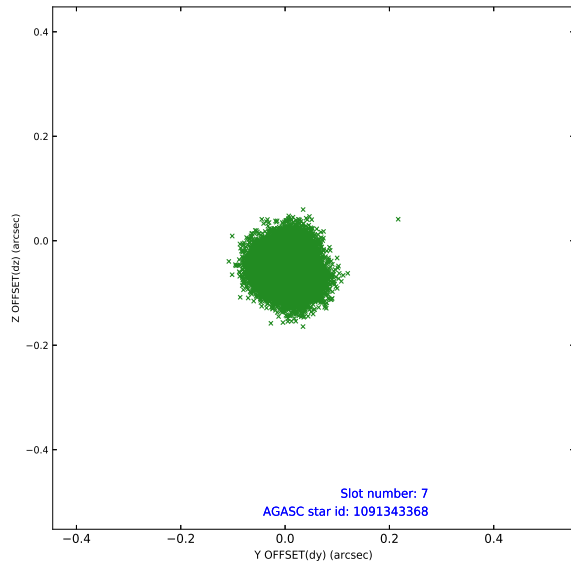
2.4.4 Slot 6



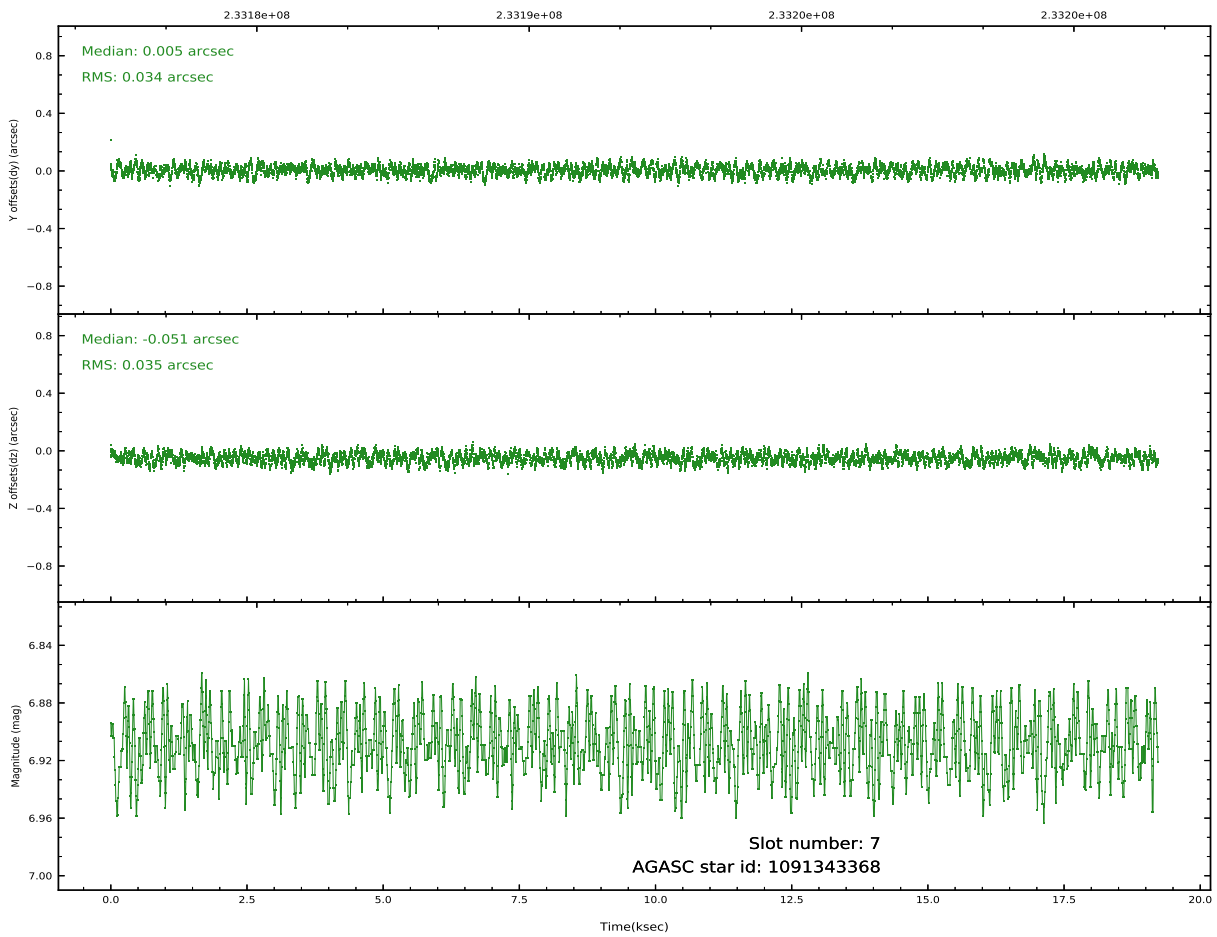
Time (s)



2.4.5 Slot 7

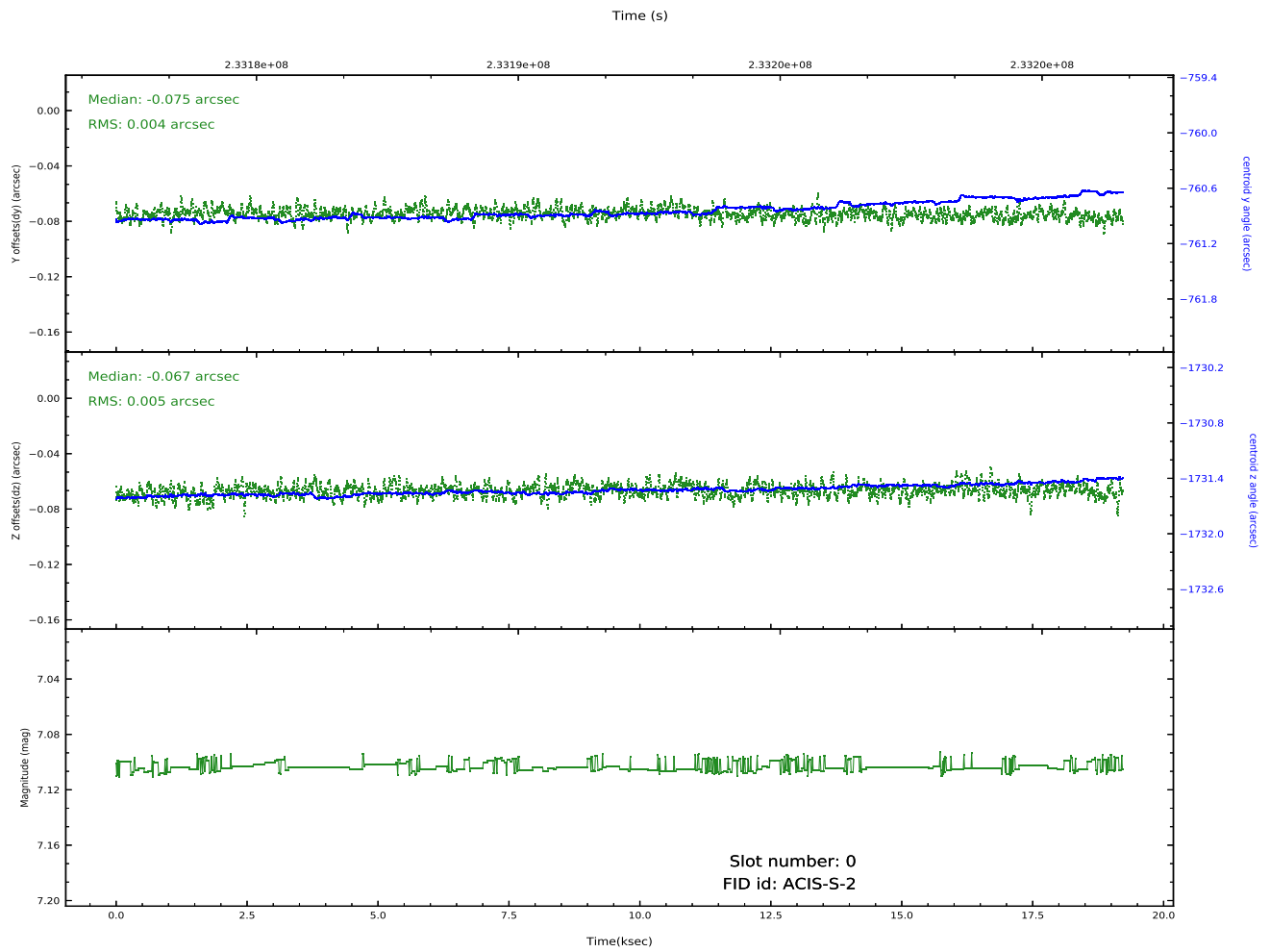
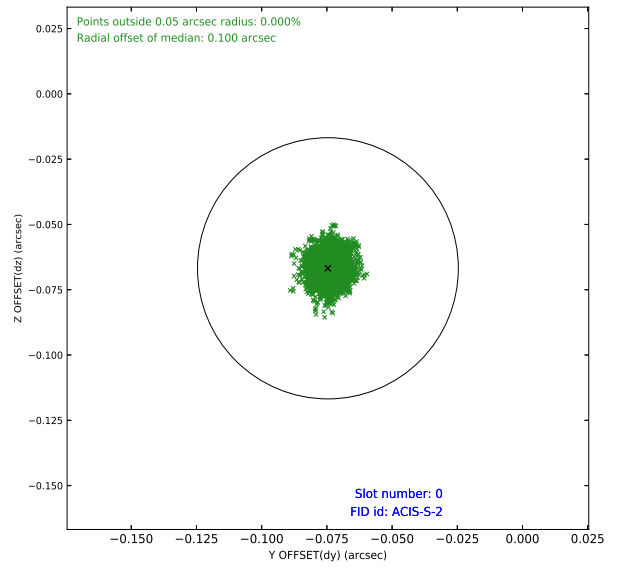
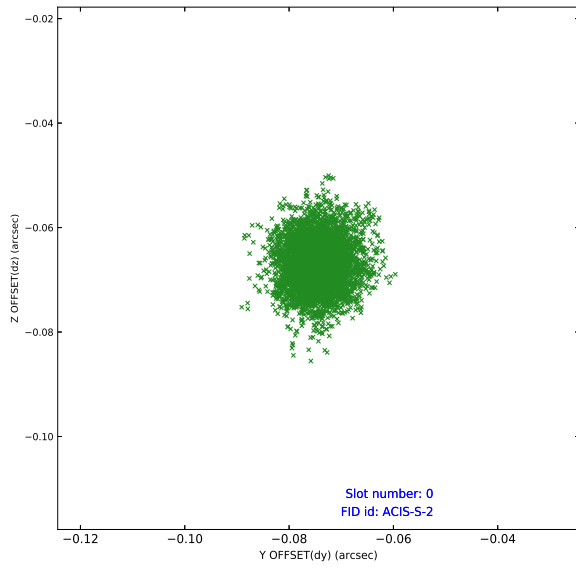


Time (s)

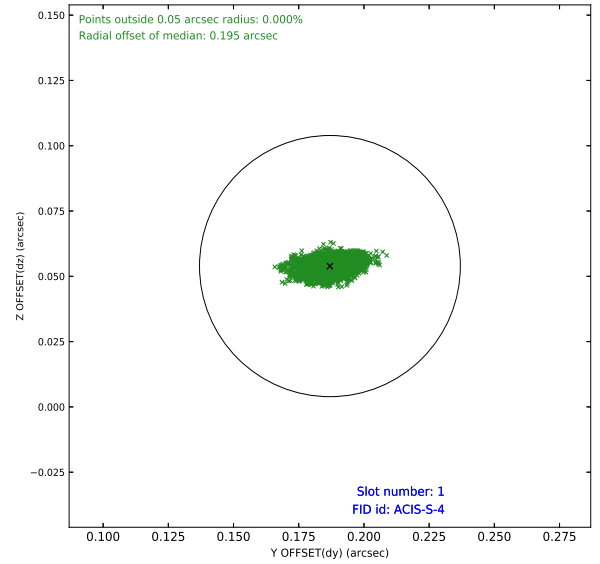
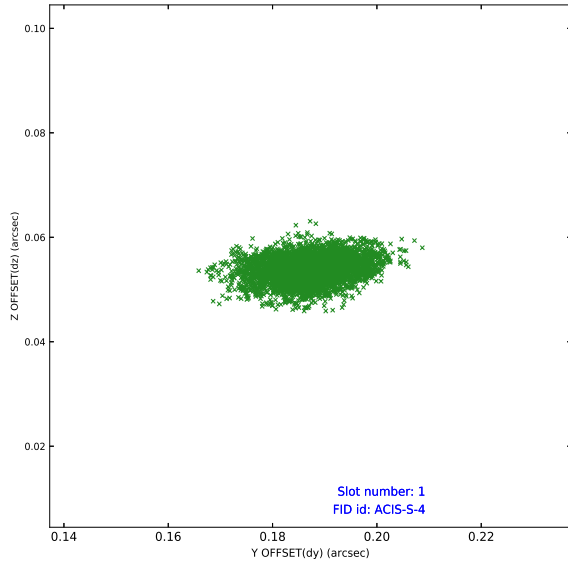


2.5 FID Slots

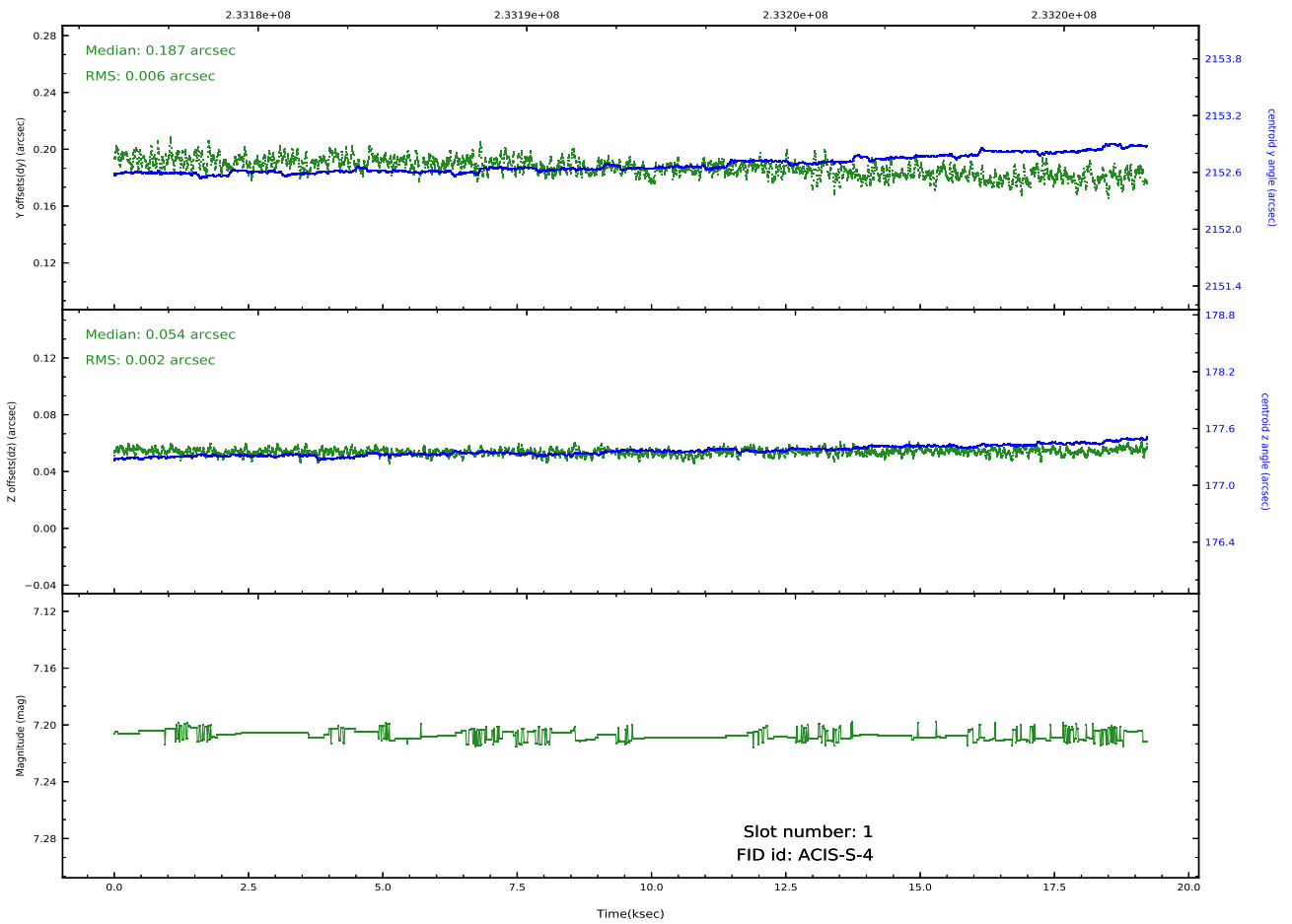
2.5.1 Slot 0



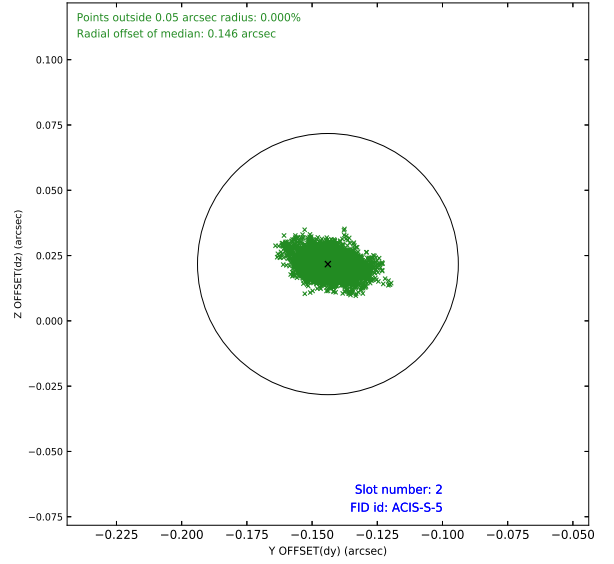
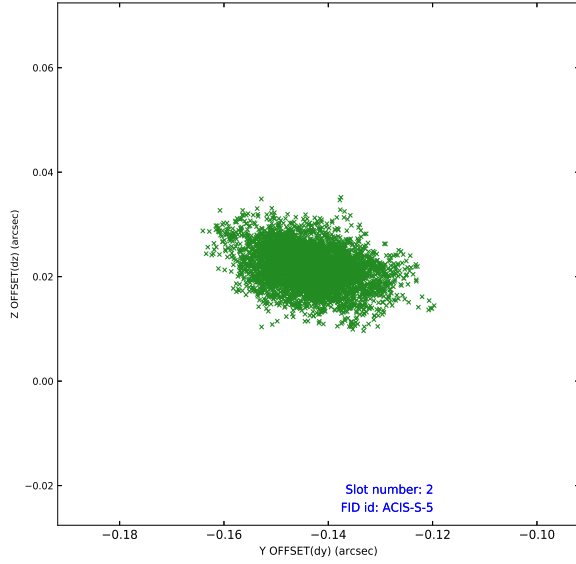
2.5.2 Slot 1



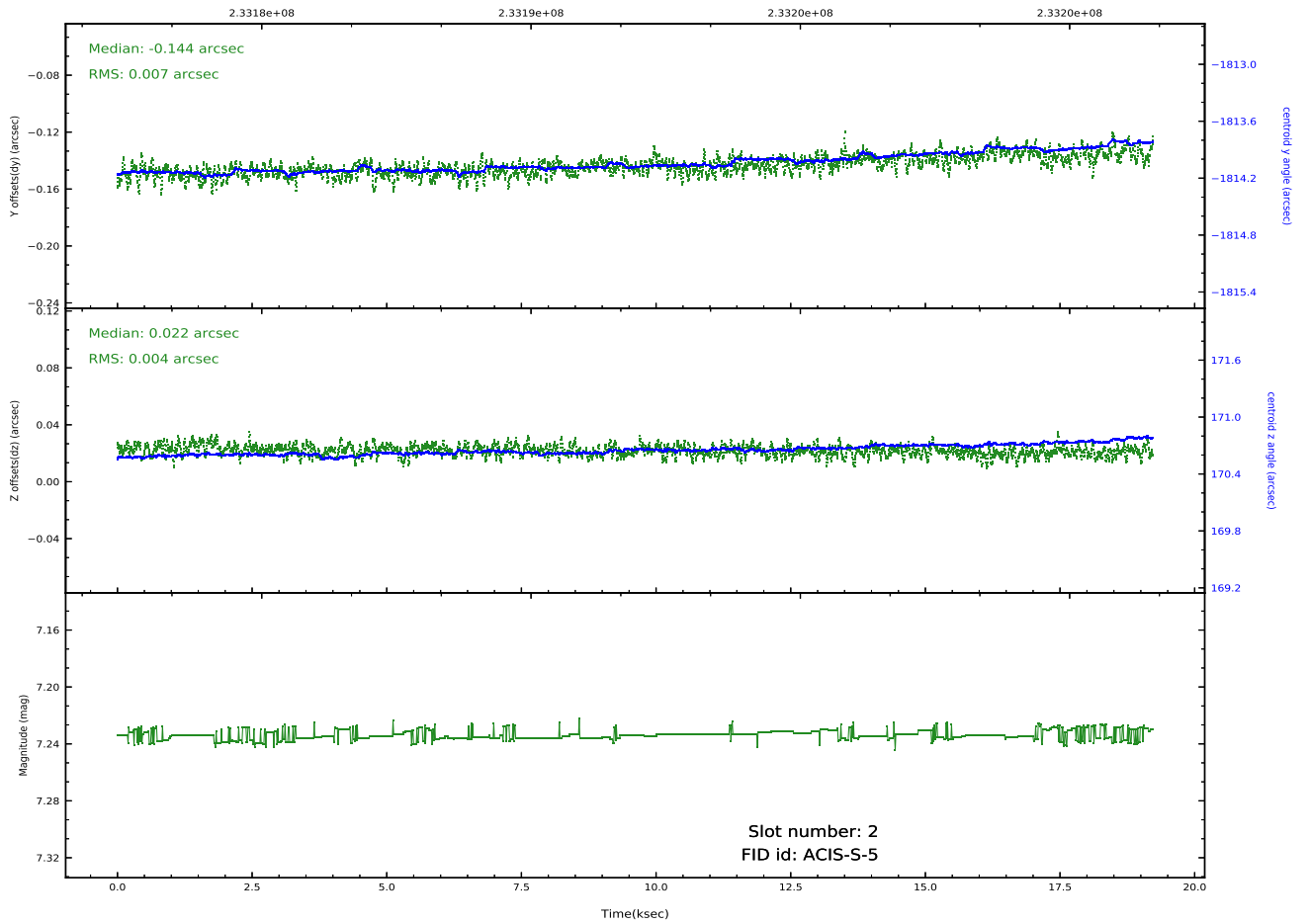
Time (s)



2.5.3 Slot 2



Time (s)



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2020.10.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	19.04959

A.2 Comments