

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5448 - L2 Version 4
Chandra X-Ray Center

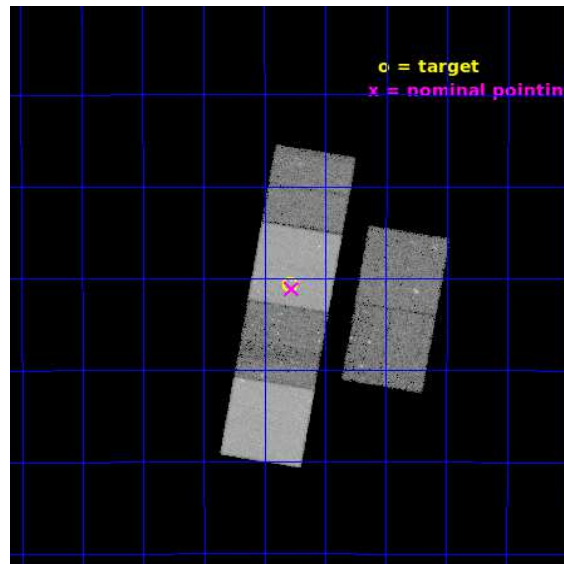
L2 Processing Date : Oct 9 2020

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1 Front

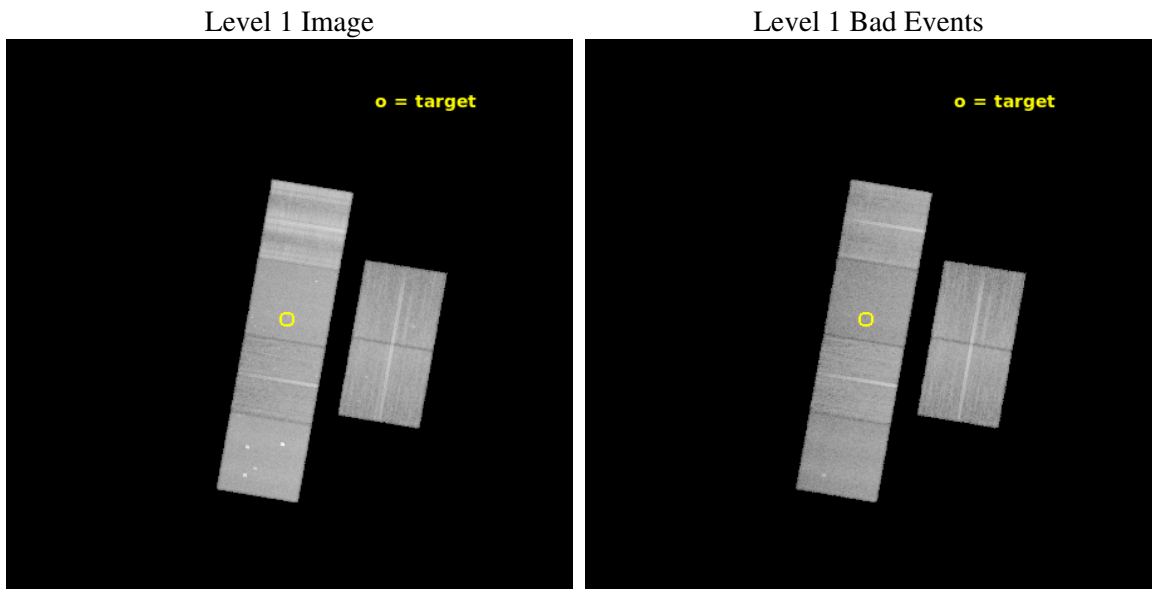
seq_num	400378	Sequence number
obs_id	5448	Observation id
title	Faint quiescent neutron star soft X-ray transients	Proposal title
observer	Peter Jonker	Principal investigator
object	1H 1715-321	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	259.6975	Observer's specified target RA [deg]
dec_targ	-32.177778	Observer's specified target Dec [deg]
ra_nom	259.69340314632	Nominal RA [deg]
dec_nom	-32.18576133073	Nominal Dec [deg]
roll_nom	279.73583062588	Nominal Roll [deg]
revision	4	Processing version of data
ontime	20179.199924827	Sum of GTIs [s]
livetime	19923.678744923	Livetime [s]
ontime2	20179.199924827	Sum of GTIs [s]
ontime3	20179.199924827	Sum of GTIs [s]
ontime5	20179.199924827	Sum of GTIs [s]
ontime6	20175.958924621	Sum of GTIs [s]
ontime7	20179.199924827	Sum of GTIs [s]
ontime8	20169.476964146	Sum of GTIs [s]
l2events	284193	Number of level 2 events



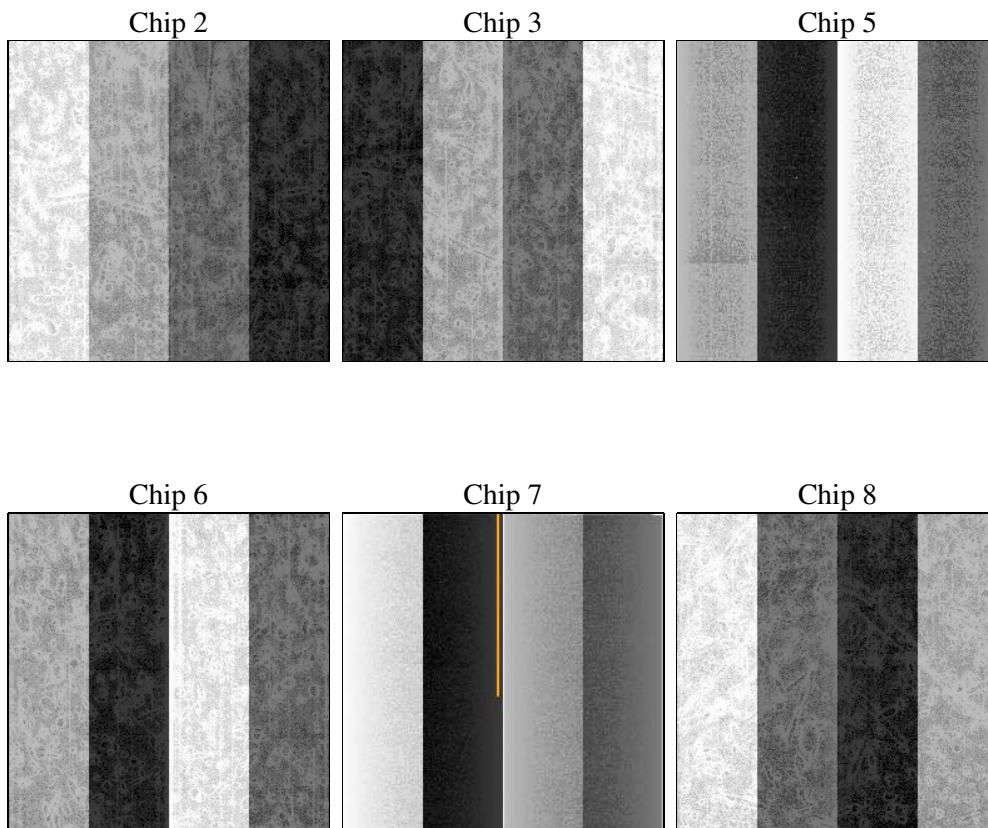
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	20000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	20179.199924827	Sum of GTIs [s]
caldbver	4.9.2	 	ontime2	20179.199924827	Sum of GTIs [s]
date	2020-10-09T12:46:40	Date and time of file creation	ontime3	20179.199924827	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	20179.199924827	Sum of GTIs [s]
			ontime6	20175.958924621	Sum of GTIs [s]
			ontime7	20179.199924827	Sum of GTIs [s]
			ontime8	20169.476964146	Sum of GTIs [s]
			l1events	1361075	Number of level 1 events

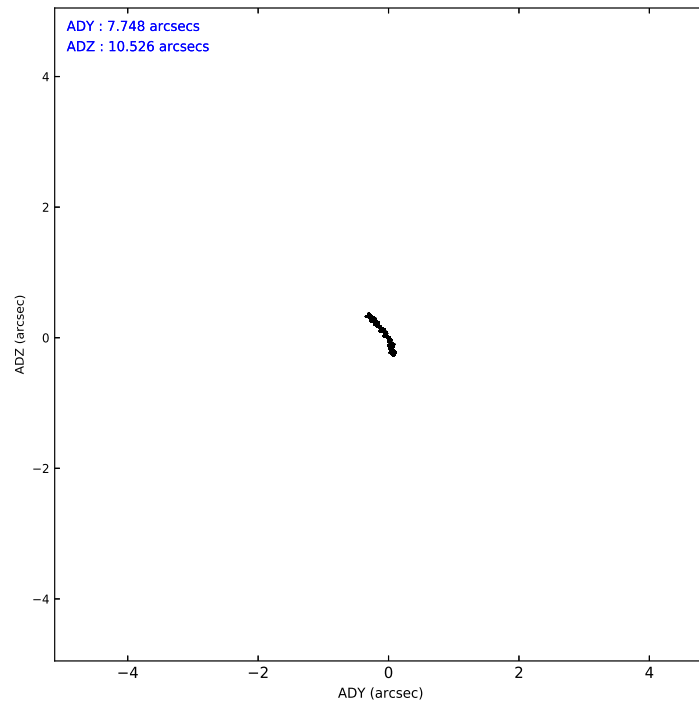
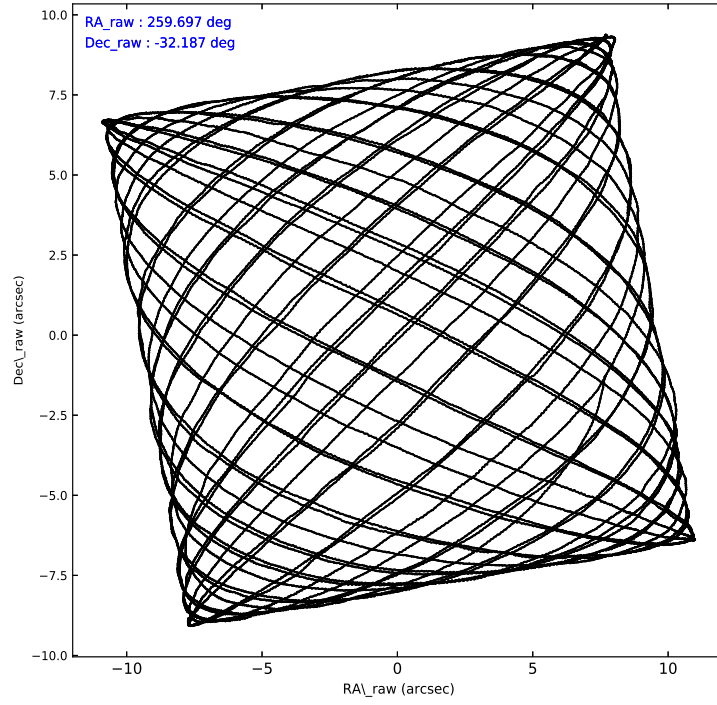
2.1.4 Events

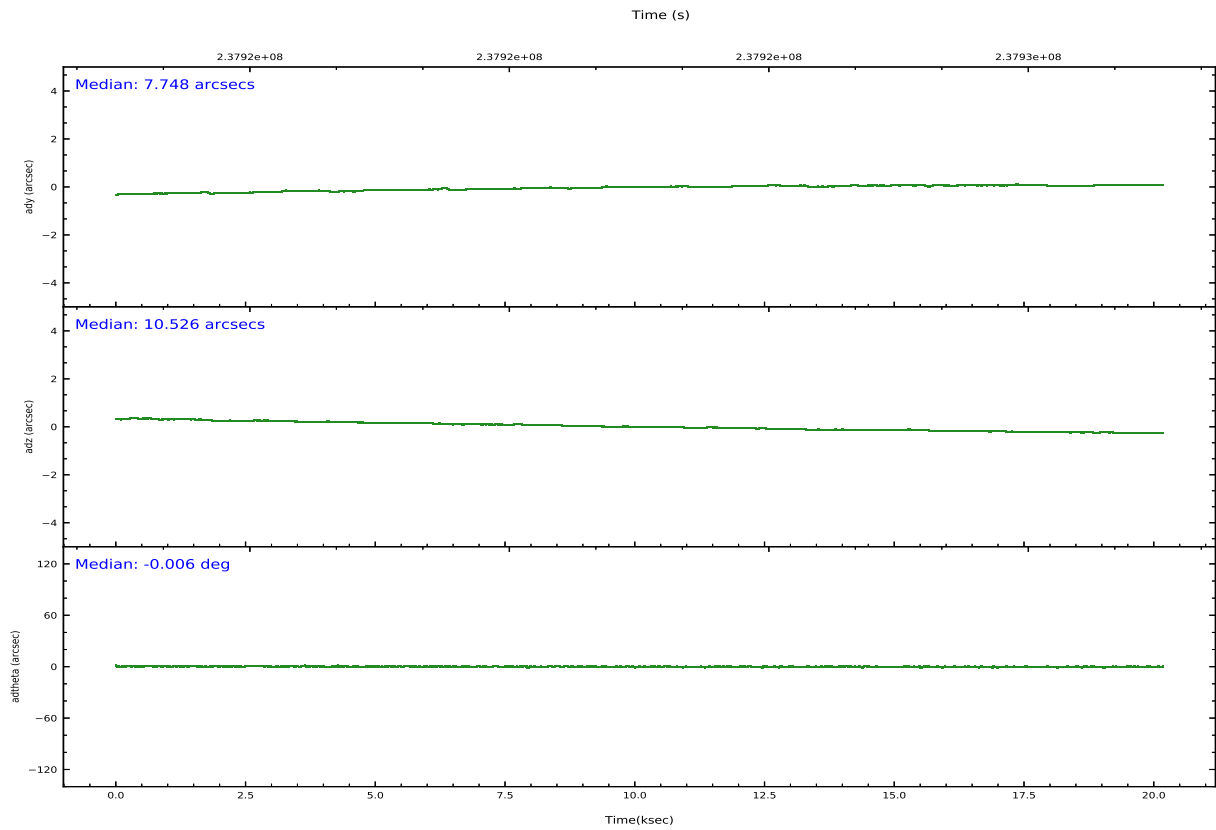
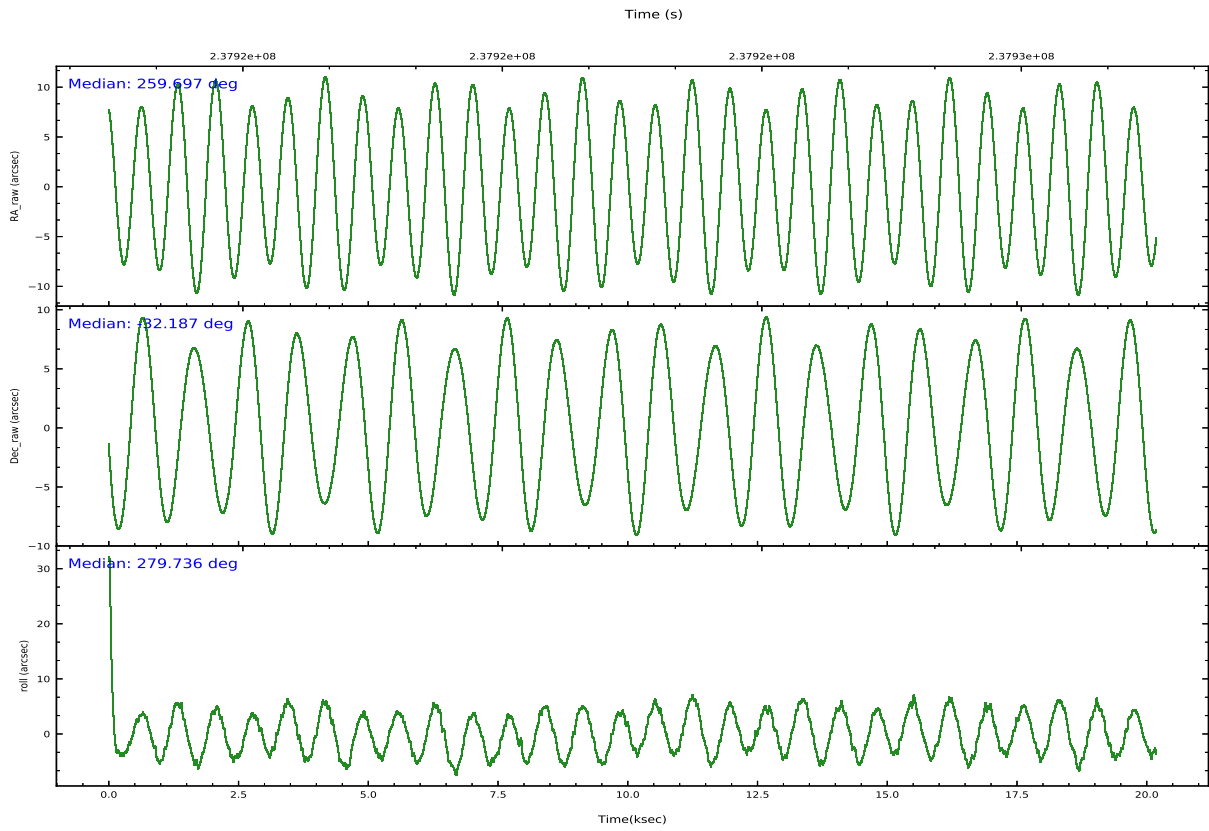
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	190888	174436	246589	191936	217198	340028	grade 0 events	13232	11154	17226	12452	9166	46003
rejected events	162474	149372	130715	163955	124447	185993		6%	6%	6%	6%	4%	13%
rejected %	85%	85%	53%	85%	57%	54%	grade 1 events	117	101	395	96	264	389
								0%	0%	0%	0%	0%	0%
							grade 2 events	6961	5922	34637	7168	19748	25665
								3%	3%	14%	3%	9%	7%
							grade 3 events	1850	1863	4768	1984	8293	24526
								0%	1%	1%	1%	3%	7%
							grade 4 events	2212	1815	4783	1858	8335	21701
								1%	1%	1%	0%	3%	6%
							grade 5 events	5916	6510	16578	6921	19746	10686
								3%	3%	6%	3%	9%	3%
							grade 6 events	4433	4547	55822	4773	48266	37498
								2%	2%	22%	2%	22%	11%
							grade 7 events	156167	142524	112380	156684	103380	173560
								81%	81%	45%	81%	47%	51%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-235678	ACIS-235678	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	259.676526	259.69340314632	Subarray requested	NONE	NONE
[deg] Pointing Dec	-32.166742	-32.18576133073	Alternating exposures requested	N	N
[deg] Pointing Roll	279.573722	279.73583062588	[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)	237912599.184000	237911412.47114			
Observation start date	2005-07-16T14:48:55	2005-07-16T14:30:12			
[s] Observation end time (MET)	237932599.184000	237932992.30963			
Observation end date	2005-07-16T20:22:15	2005-07-16T20:29:52			
Read mode	TIMED	TIMED			

2.3 Aspect





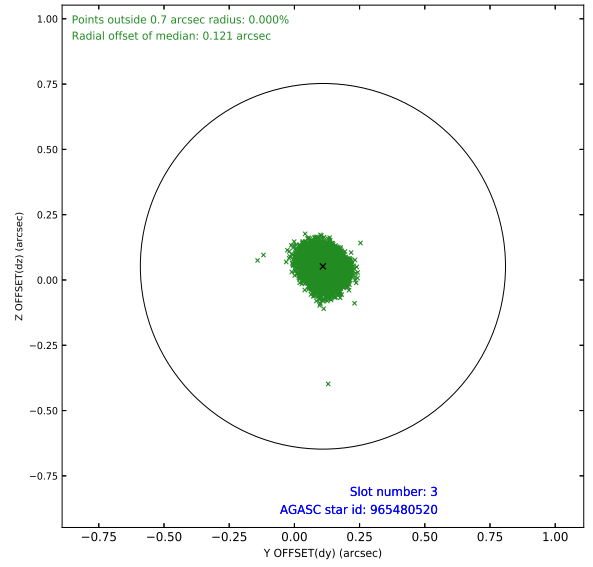
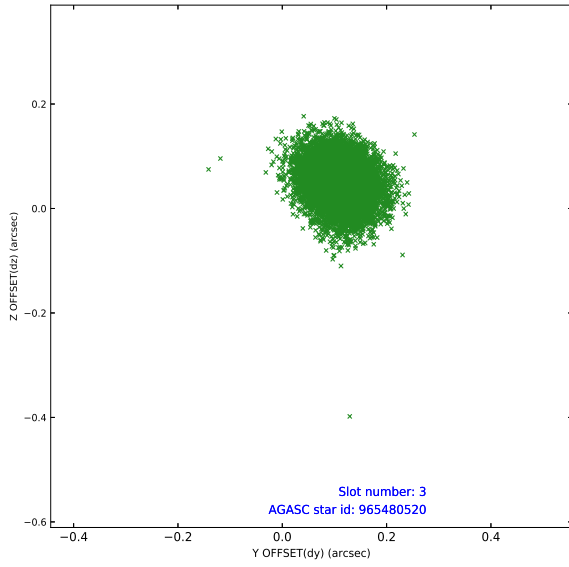
Slot Statistics

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	7.11	4922	1.000	-0.075	-0.055	0.008	0.013	0.000000	0.000000	-760.47	-1731
1	FID		ACIS-S-4	7.21	4923	1.000	0.164	0.051	0.008	0.015	0.000000	0.000000	2152.88	176
2	FID		ACIS-S-5	7.23	4923	1.000	-0.120	0.012	0.008	0.013	0.000000	0.000000	-1813.20	170
3	GUIDE	used	965480520	8.55	9844	1.000	0.109	0.052	0.056	0.093	259.583195	-32.326000	518.64	-374
4	GUIDE	used	965481552	8.21	9838	1.000	-0.005	-0.052	0.058	0.094	259.329983	-32.065880	-531.08	-981
5	GUIDE	used	965482744	8.23	9845	1.000	-0.025	-0.166	0.083	0.123	259.140806	-32.338645	343.72	-1710
6	GUIDE	used	964956776	7.97	9846	1.000	0.012	0.098	0.076	0.124	260.357236	-31.581931	-1722.48	2407
7	GUIDE	used	965478696	8.22	9836	1.000	-0.087	0.068	0.064	0.101	260.391489	-32.105329	151.40	2185

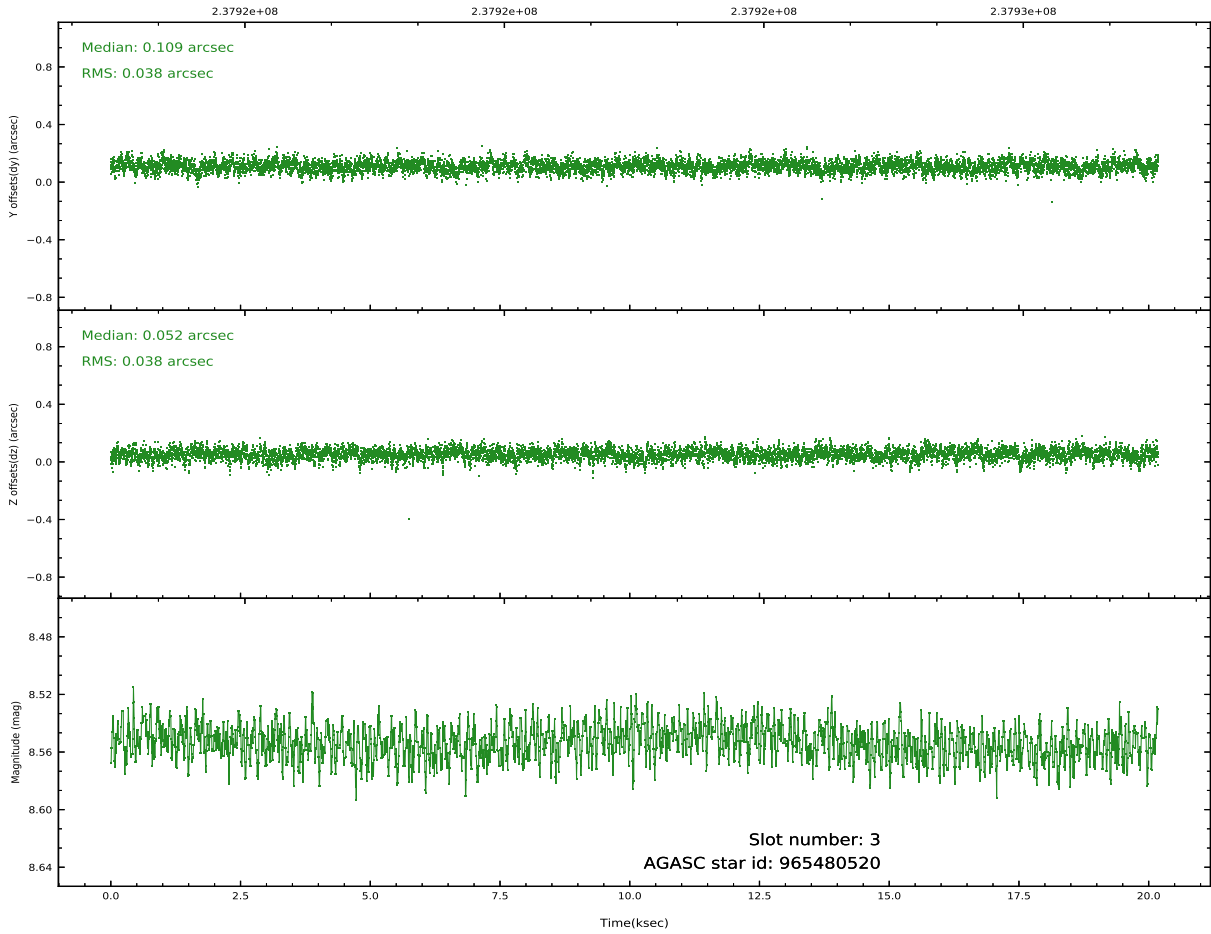
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2.4 Star Slots

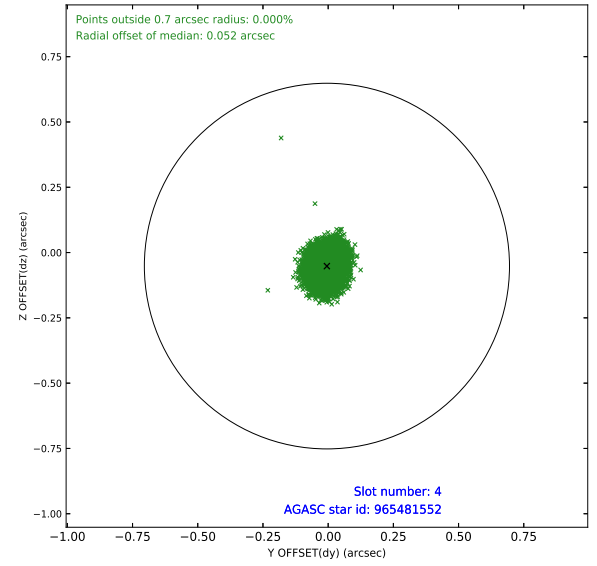
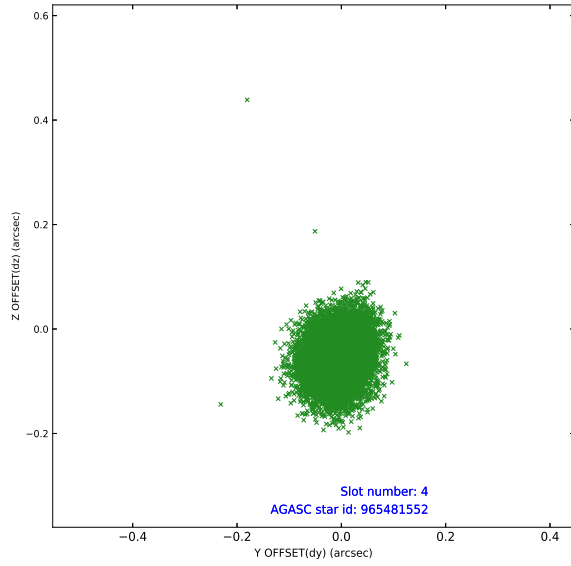
2.4.1 Slot 3



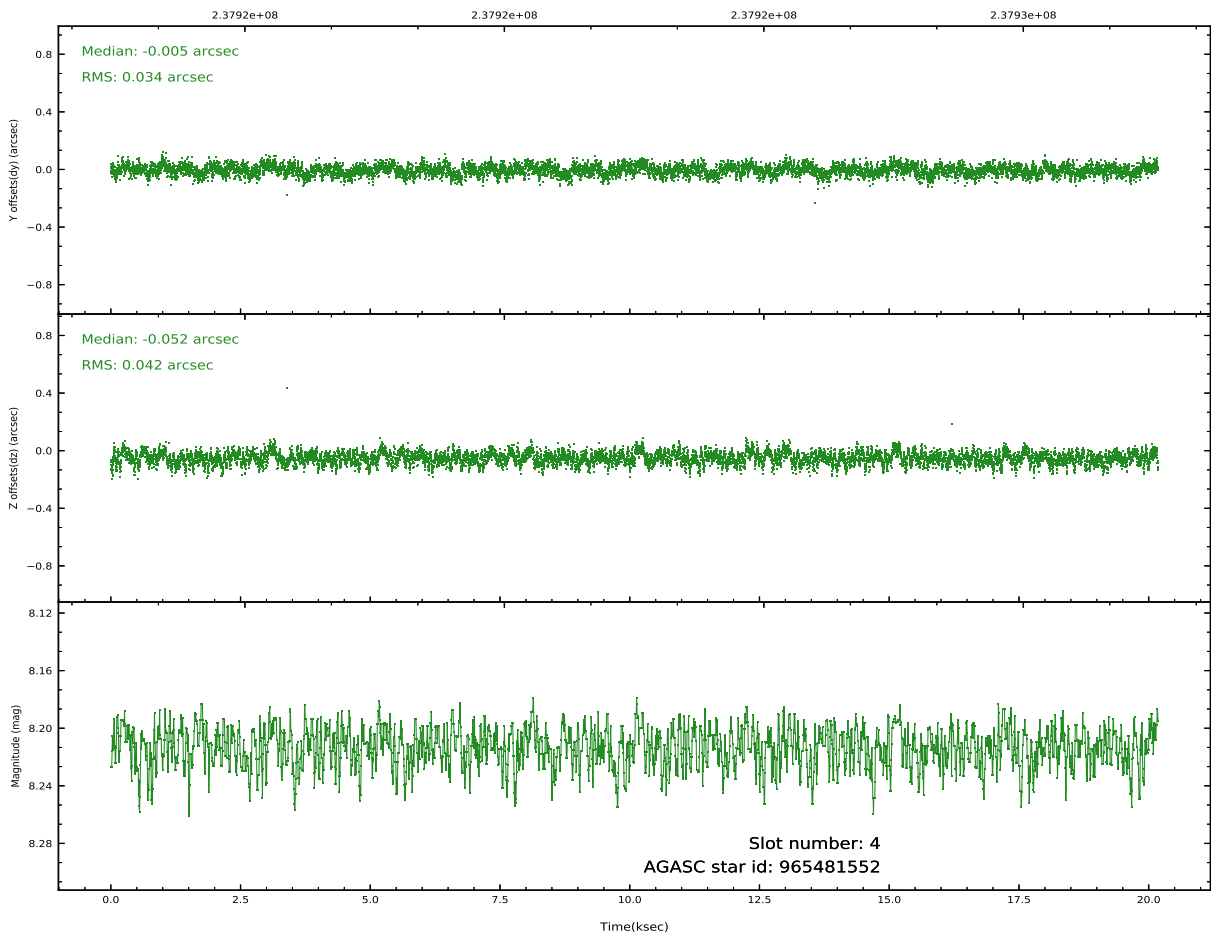
Time (s)



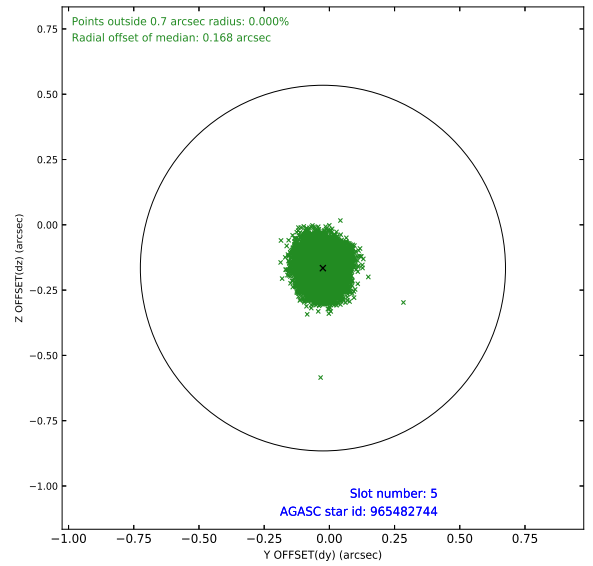
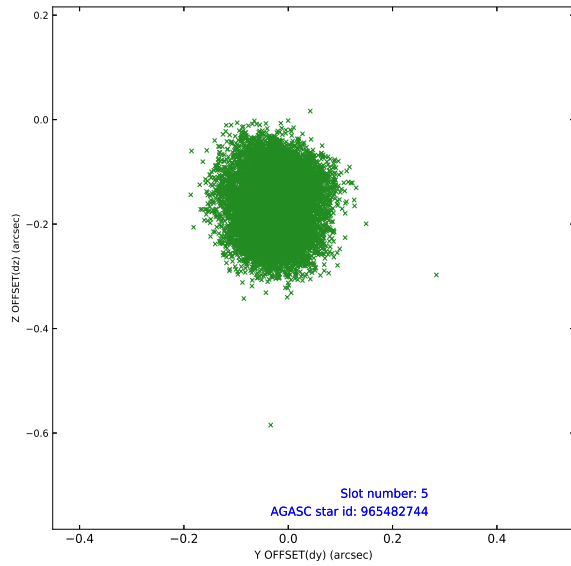
2.4.2 Slot 4



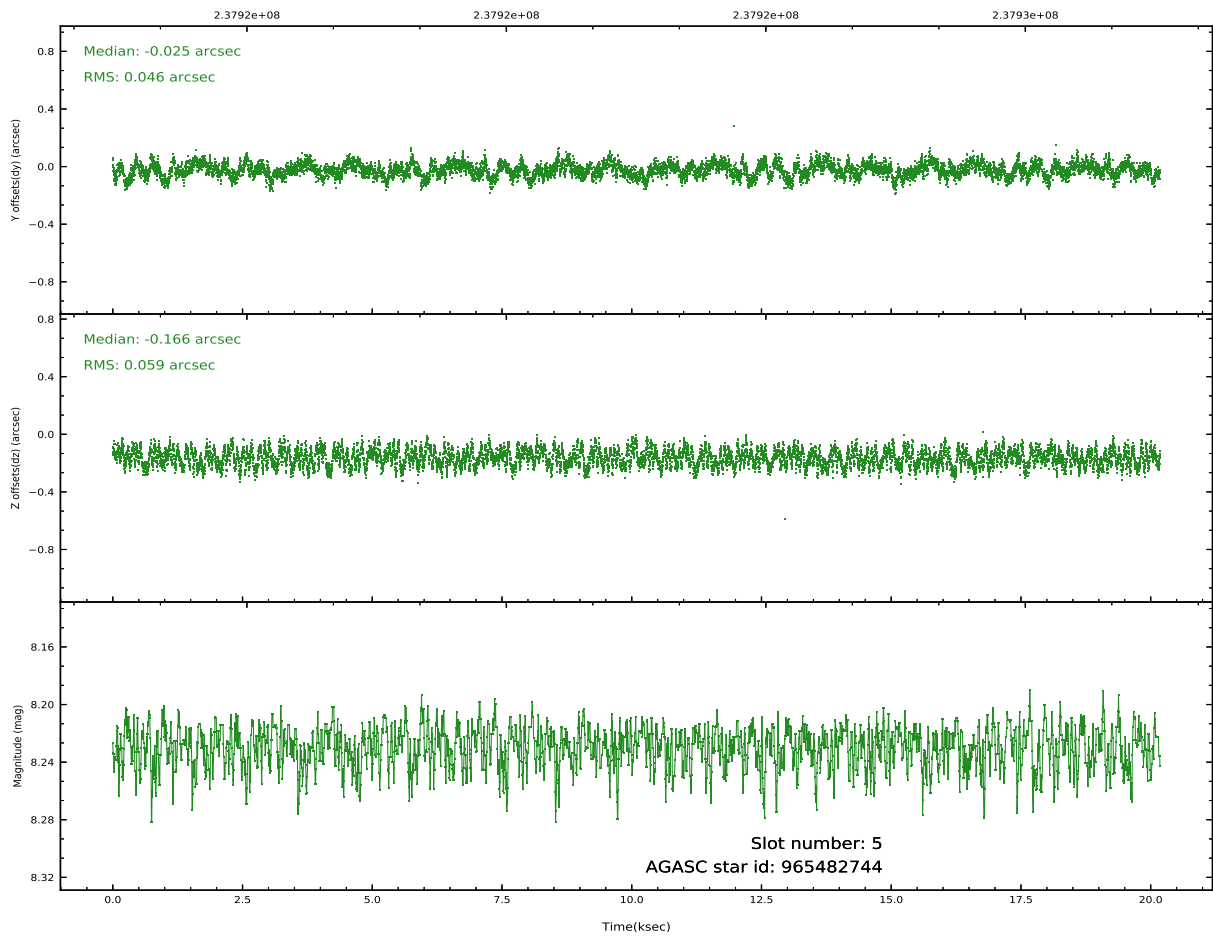
Time (s)



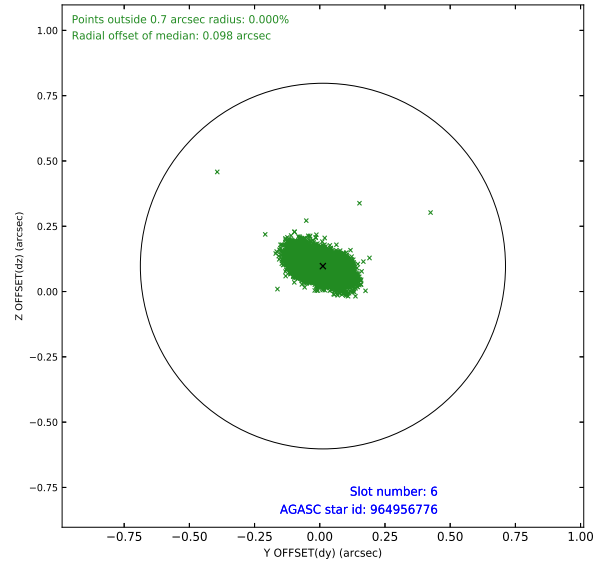
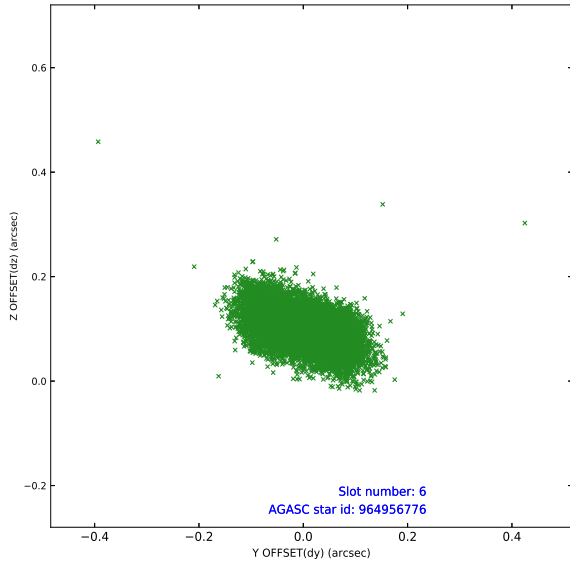
2.4.3 Slot 5



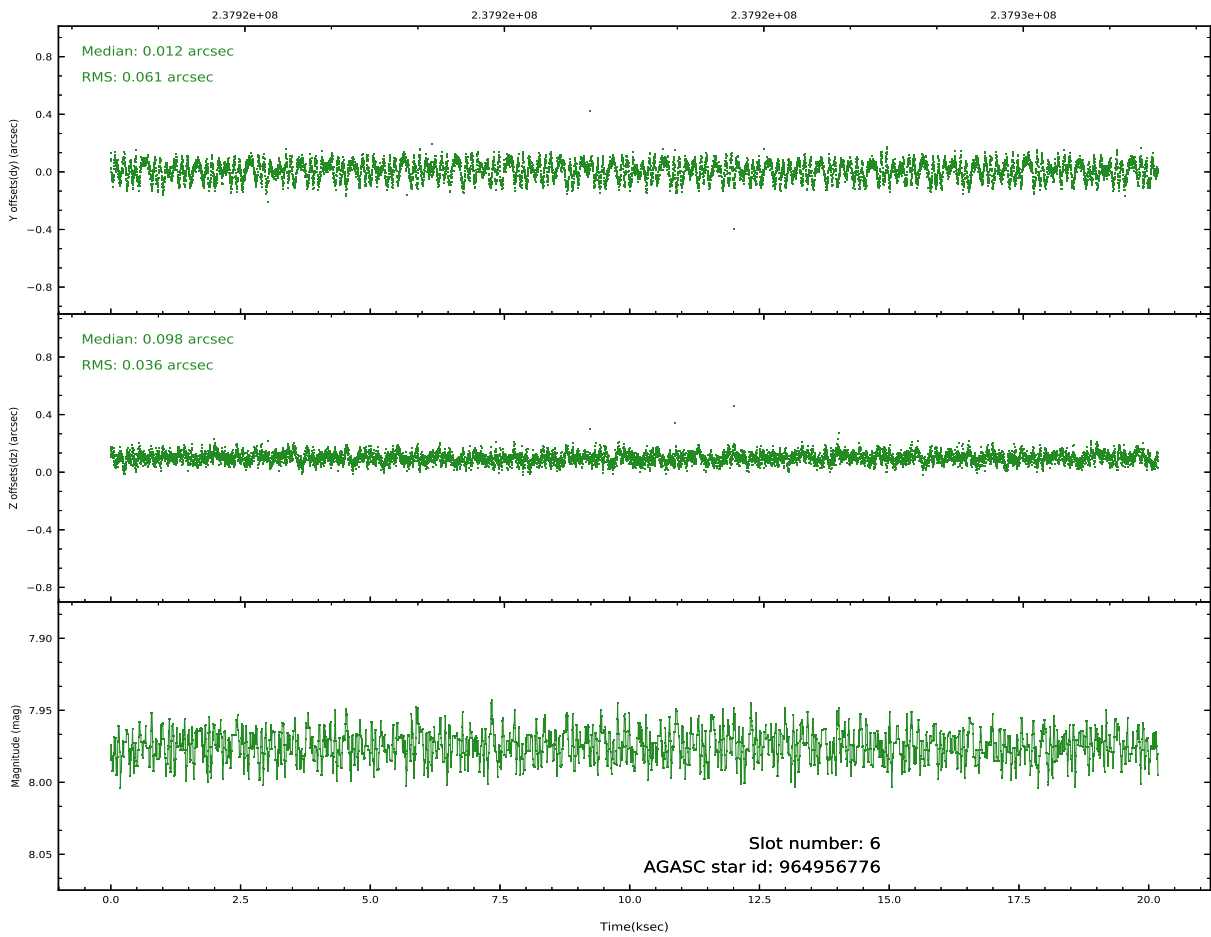
Time (s)



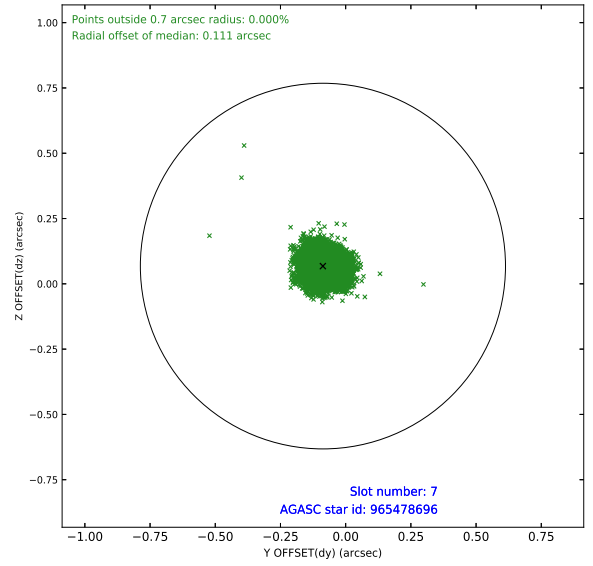
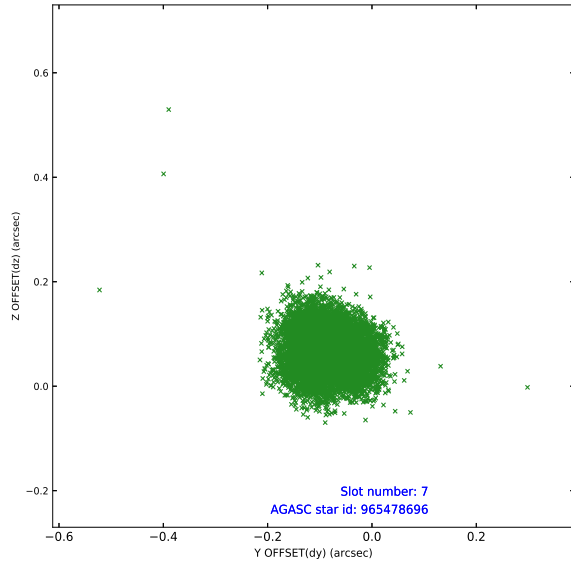
2.4.4 Slot 6



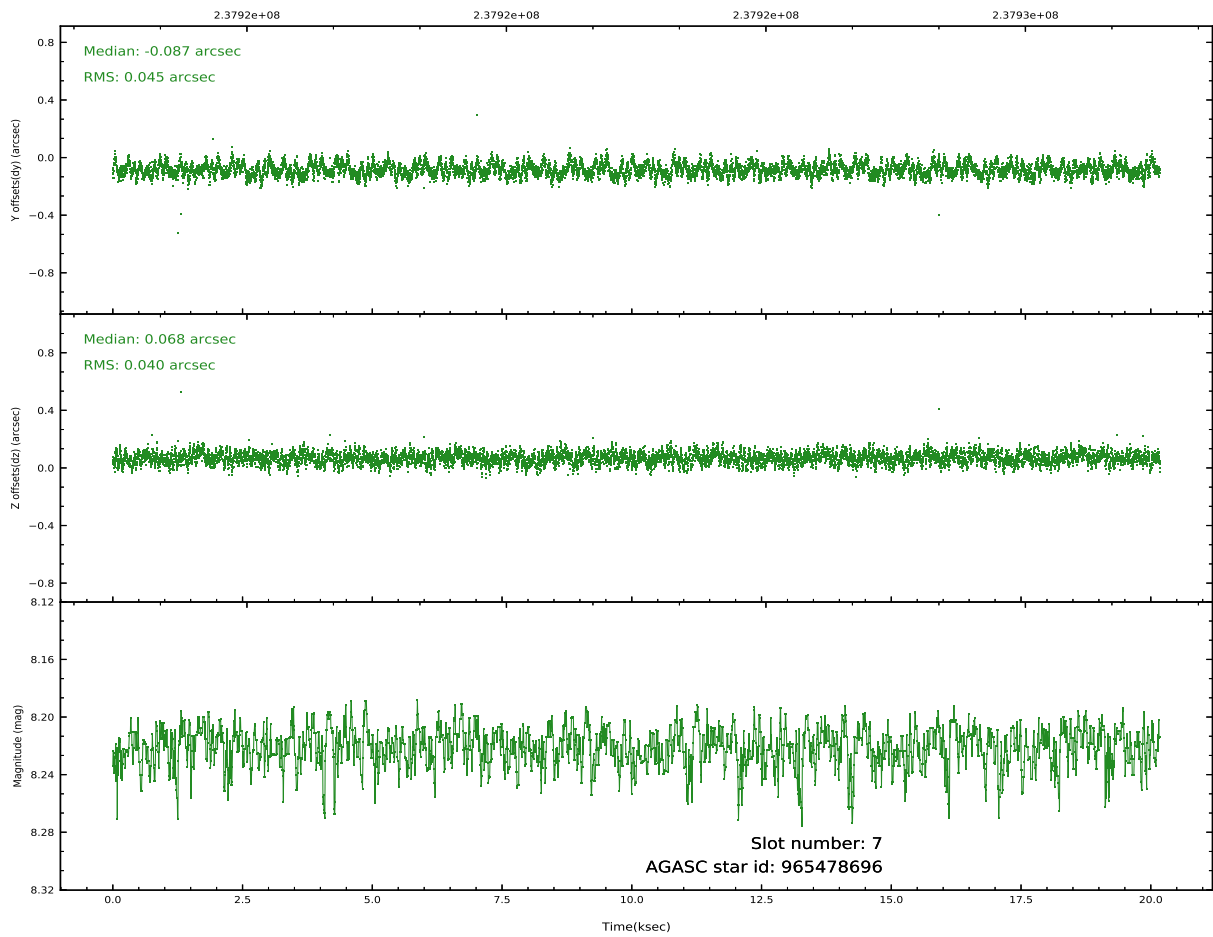
Time (s)



2.4.5 Slot 7

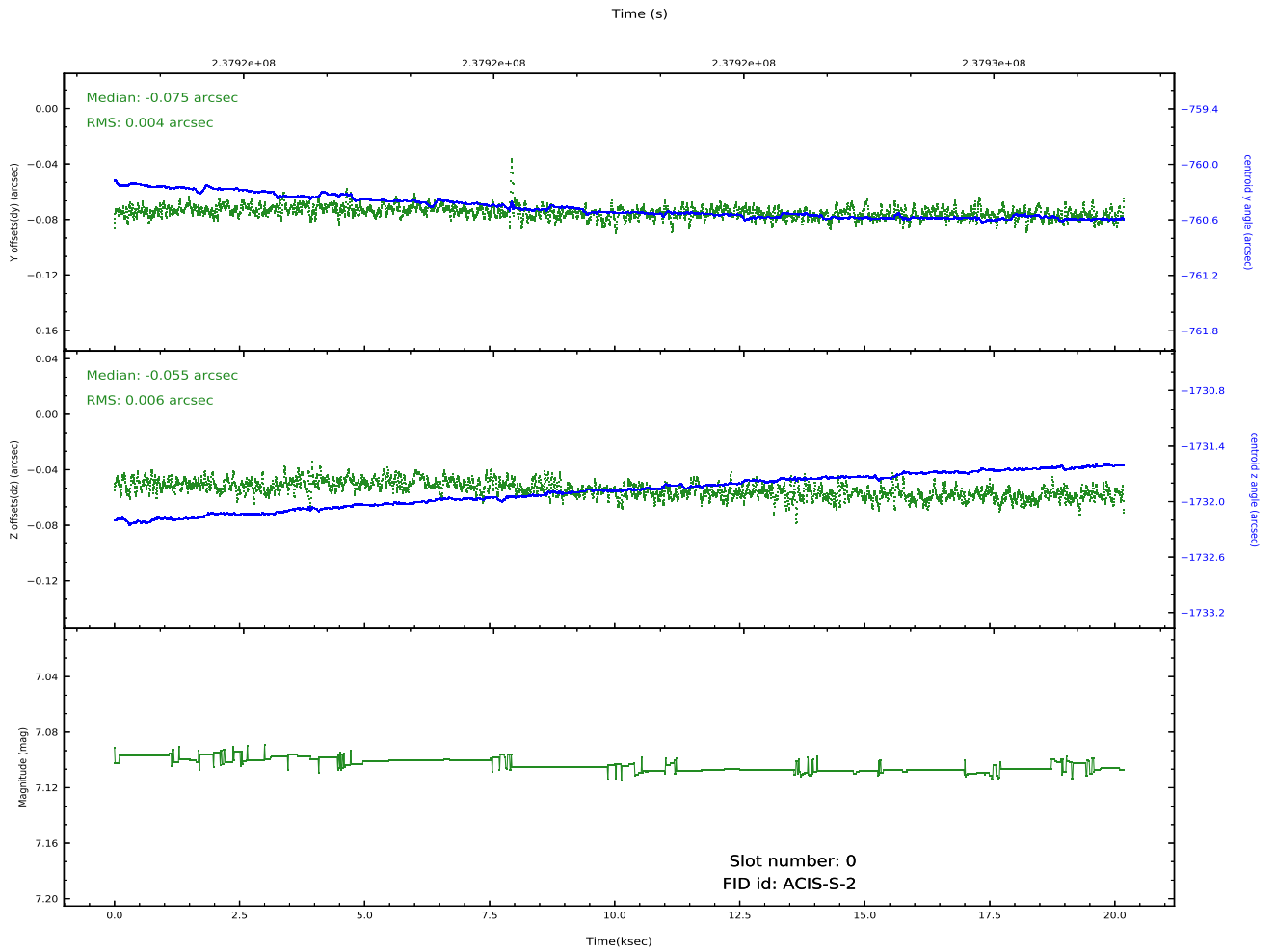
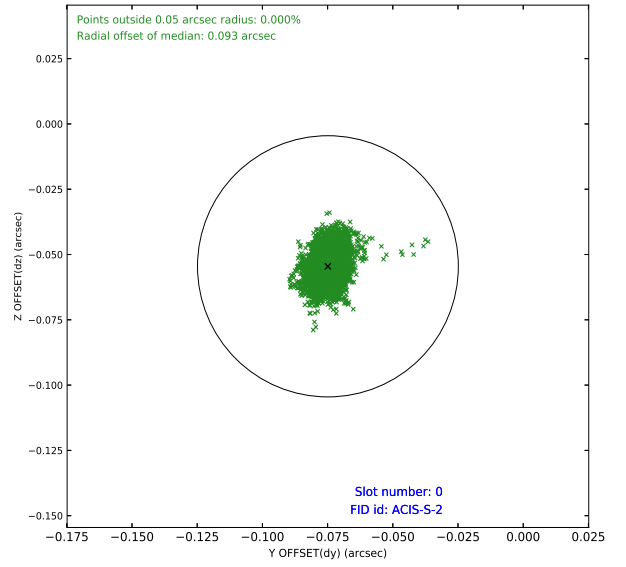
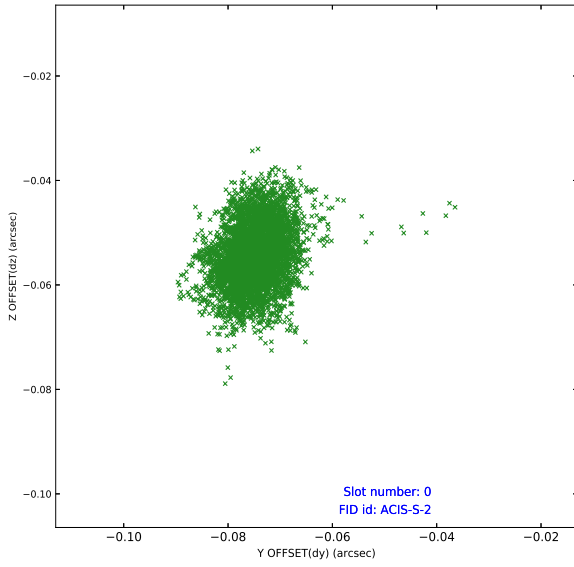


Time (s)

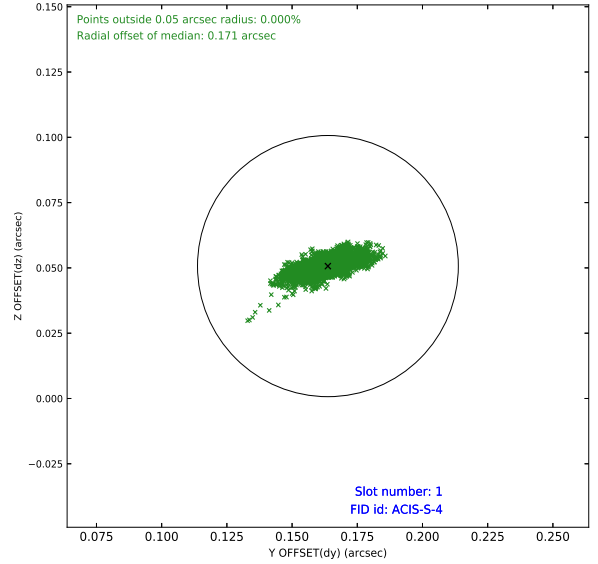
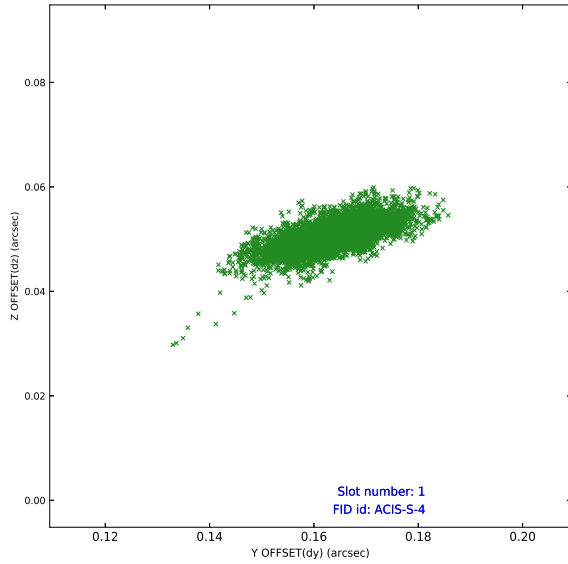


2.5 FID Slots

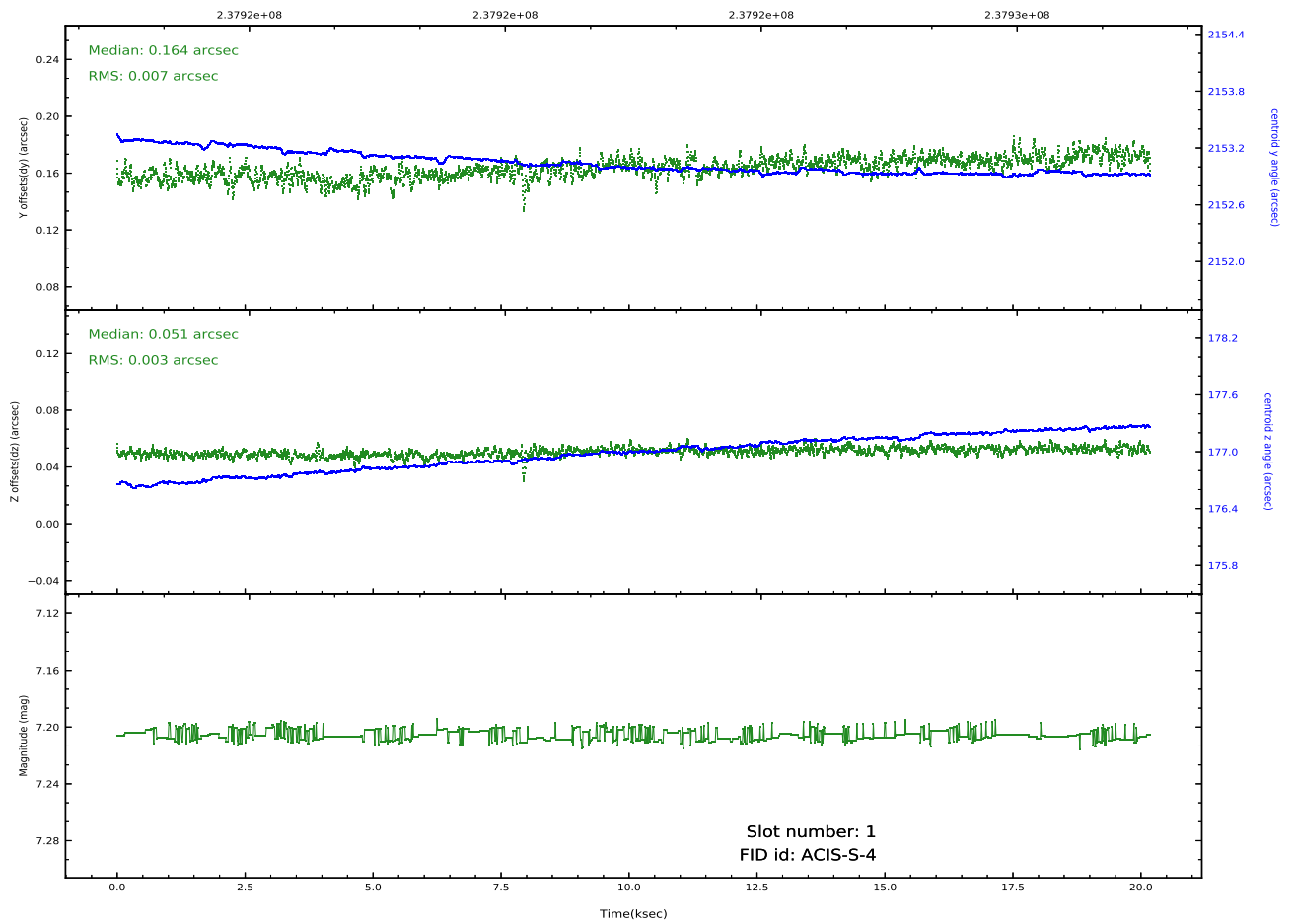
2.5.1 Slot 0



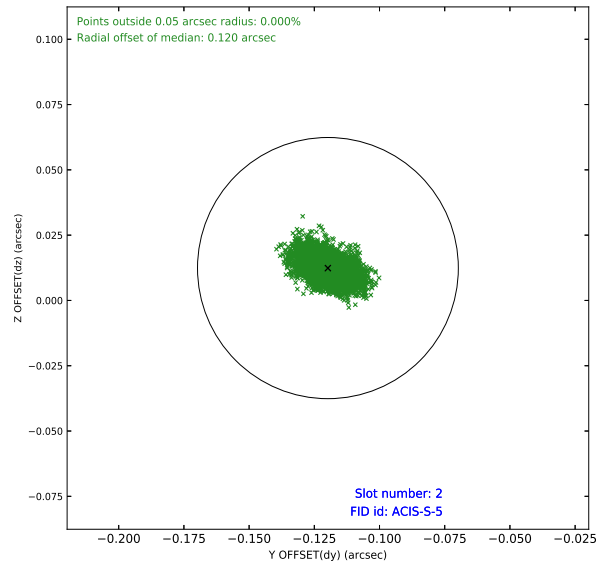
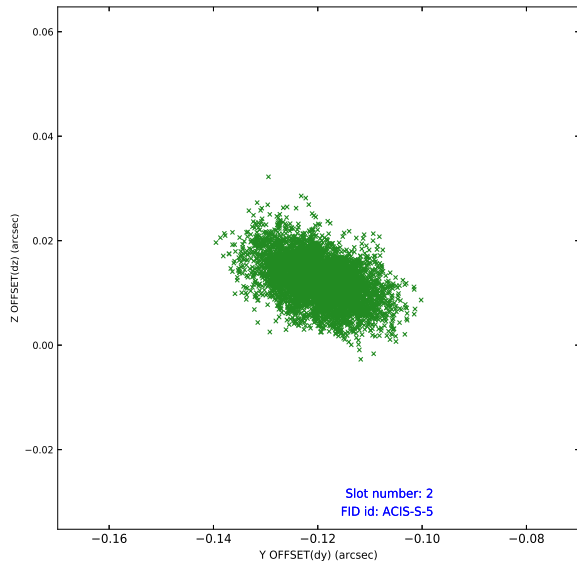
2.5.2 Slot 1



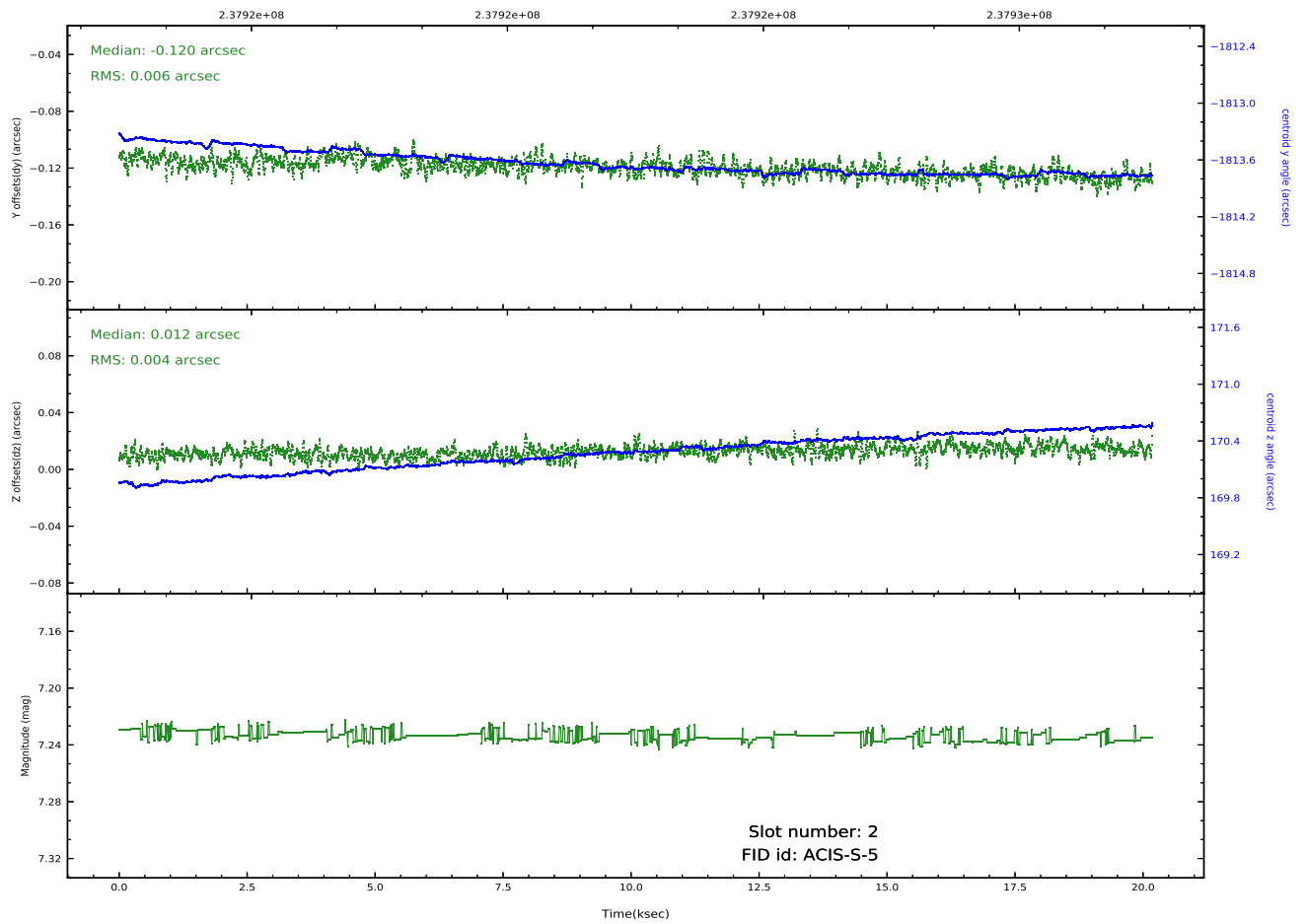
Time (s)



2.5.3 Slot 2



Time (s)



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2020.10.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.17919

A.2 Comments