

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 4583 - L2 Version 4
Chandra X-Ray Center

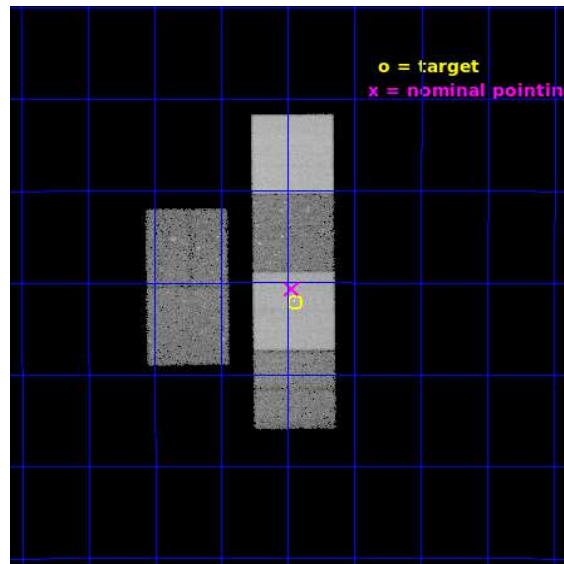
L2 Processing Date : Sep 25 2020

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

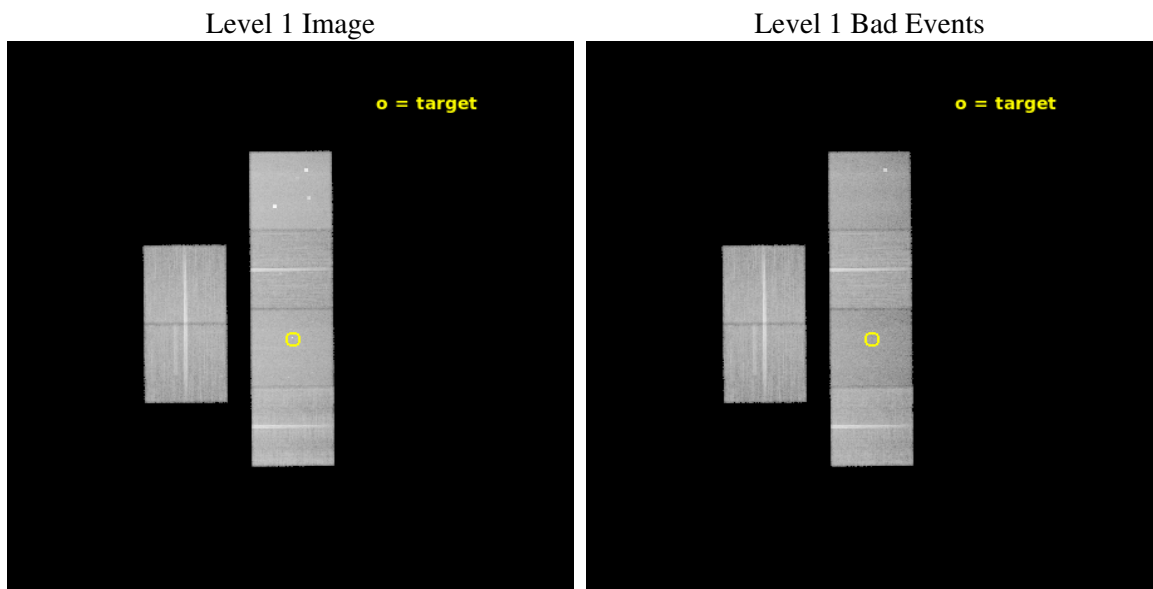
seq_num	400365	Sequence number
obs_id	4583	Observation id
title	Localizing the X-Ray Transient 4U 1730-22	Proposal title
observer	John Tomsick	Principal investigator
object	4U 1730-22	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	263.4875	Observer's specified target RA [deg]
dec_targ	-22.035278	Observer's specified target Dec [deg]
ra_nom	263.49243811291	Nominal RA [deg]
dec_nom	-22.010981780031	Nominal Dec [deg]
roll_nom	89.490875170417	Nominal Roll [deg]
revision	4	Processing version of data
ontime	40358.399849653	Sum of GTIs [s]
livetime	39847.357489846	Livetime [s]
ontime2	40355.158849478	Sum of GTIs [s]
ontime3	40358.399849653	Sum of GTIs [s]
ontime5	40358.399849653	Sum of GTIs [s]
ontime6	40358.399849653	Sum of GTIs [s]
ontime7	40358.399849653	Sum of GTIs [s]
ontime8	40355.158839464	Sum of GTIs [s]
l2events	356161	Number of level 2 events



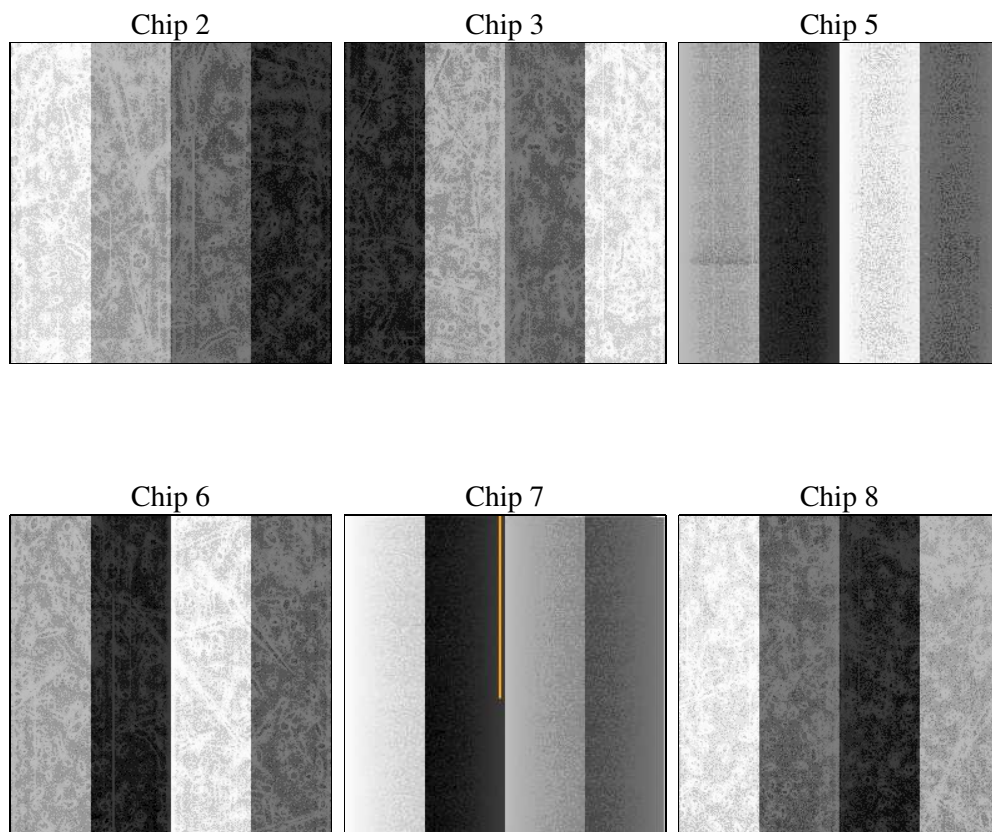
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	40400.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	40358.399849653	Sum of GTIs [s]
caldbver	4.9.2	 	ontime2	40355.158849478	Sum of GTIs [s]
date	2020-09-25T19:43:31	Date and time of file creation	ontime3	40358.399849653	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	40358.399849653	Sum of GTIs [s]
			ontime6	40358.399849653	Sum of GTIs [s]
			ontime7	40358.399849653	Sum of GTIs [s]
			ontime8	40355.158839464	Sum of GTIs [s]
			l1events	1617197	Number of level 1 events

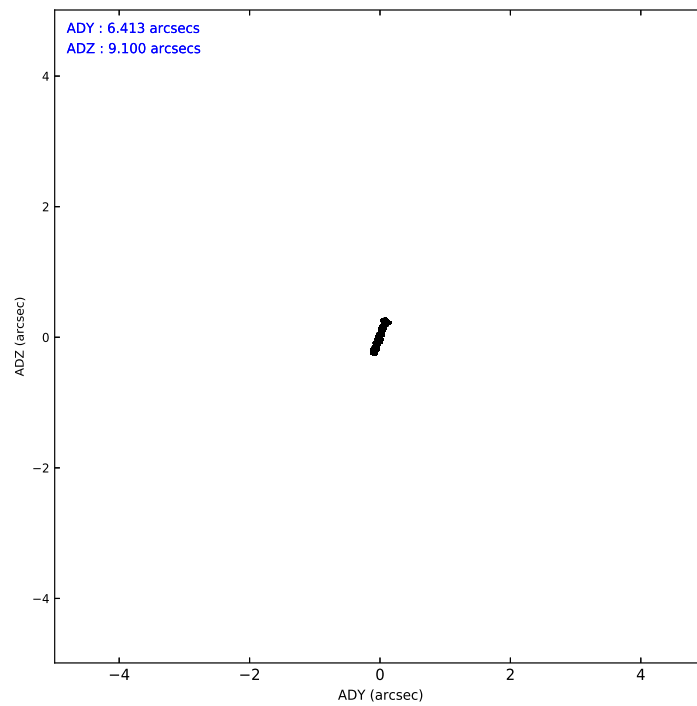
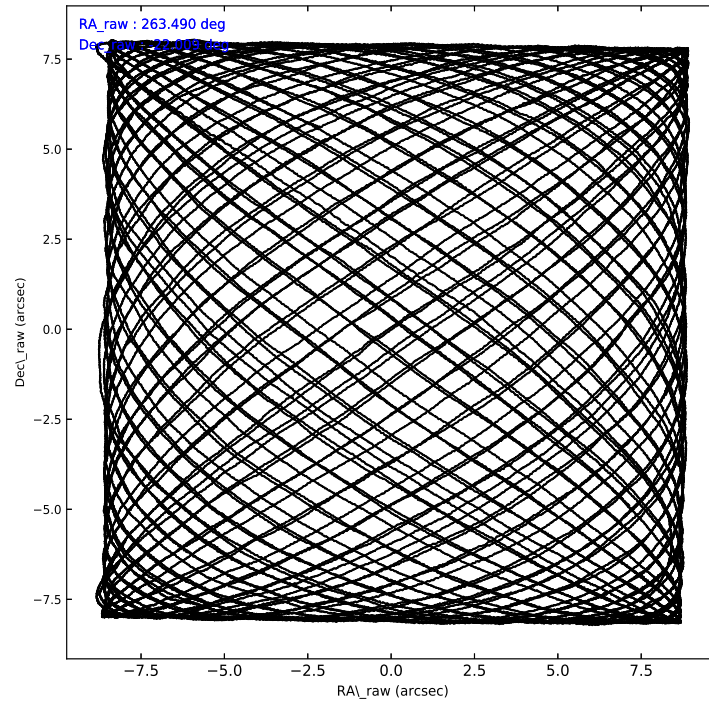
2.1.4 Events

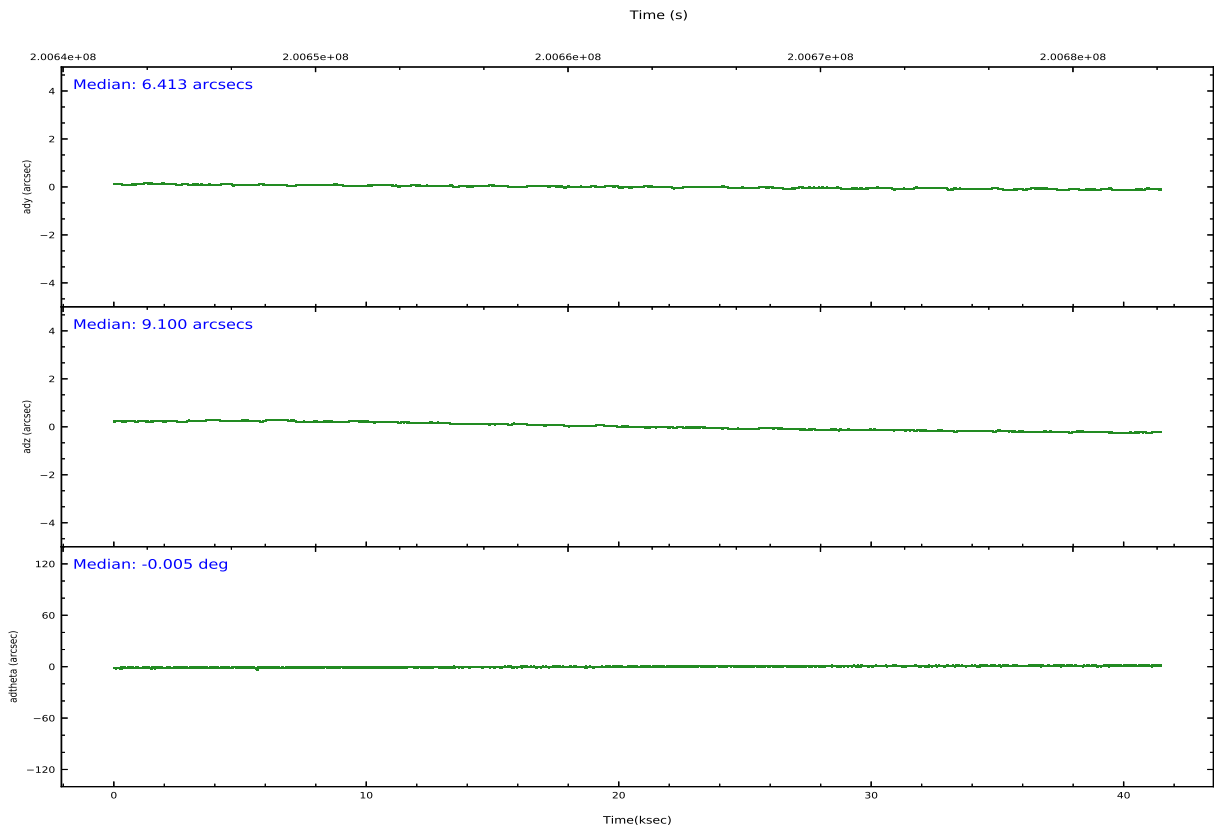
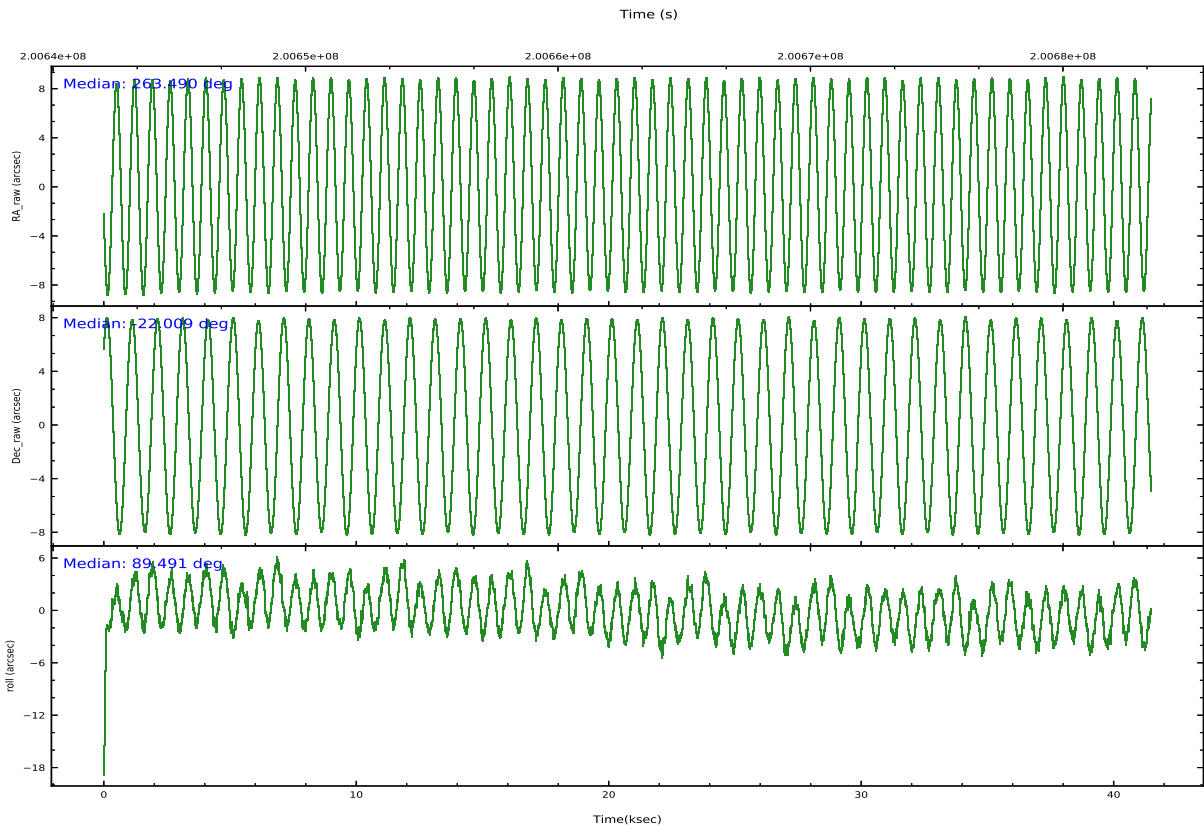
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	255491	234489	323657	243388	263917	296255	grade 0 events	9896	9222	18464	10997	12088	20791
rejected events	230606	210975	161429	216172	141263	228057		3%	3%	5%	4%	4%	7%
rejected %	90%	89%	49%	88%	53%	76%	grade 1 events	137	148	396	126	239	193
								0%	0%	0%	0%	0%	0%
							grade 2 events	5565	4641	47121	5494	25135	15002
								2%	1%	14%	2%	9%	5%
							grade 3 events	2526	2704	7690	2880	11816	7234
								0%	1%	2%	1%	4%	2%
							grade 4 events	2663	2615	7178	2774	11789	6866
								1%	1%	2%	1%	4%	2%
							grade 5 events	8025	9019	27167	9350	27536	13363
								3%	3%	8%	3%	10%	4%
							grade 6 events	4240	4334	81788	5076	61832	18308
								1%	1%	25%	2%	23%	6%
							grade 7 events	222439	201806	133853	206691	113482	214498
								87%	86%	41%	84%	42%	72%

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	263.504439	263.49243811291	Subarray requested	NONE	NONE
[deg] Pointing Dec	-22.032631	-22.010981780031	Alternating exposures requested	N	N
[deg] Pointing Roll	89.338471	89.490875170417	[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)	200643093.184000	200641682.53252			
Observation start date	2004-05-11T06:10:29	2004-05-11T05:48:02			
[s] Observation end time (MET)	200683493.184000	200684145.7219			
Observation end date	2004-05-11T17:23:49	2004-05-11T17:35:45			
Read mode	TIMED	TIMED			

2.3 Aspect





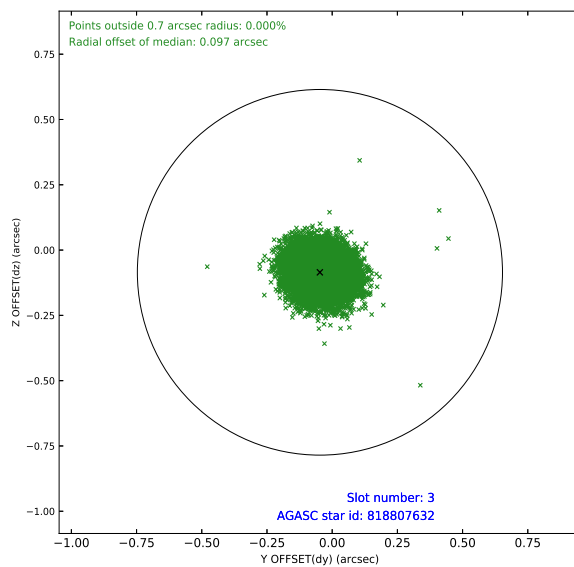
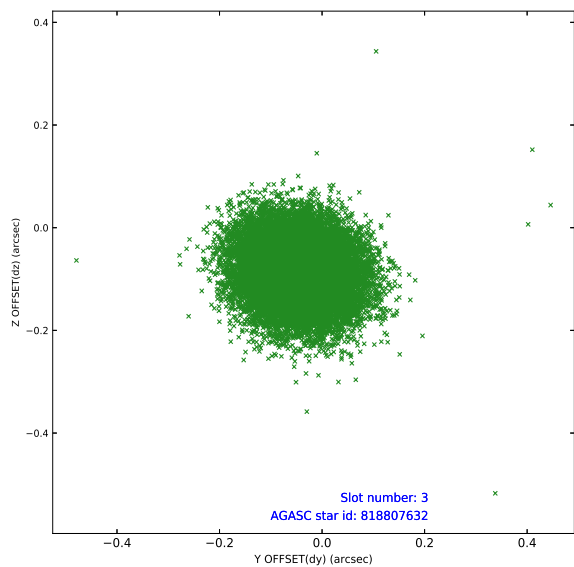
Slot Statistics

slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_x
0	FID		ACIS-S-2	7.10	10118	1.000	-0.075	-0.074	0.009	0.015	0.000000	0.000000	-759.19	-1730
1	FID		ACIS-S-4	7.21	10118	1.000	0.138	0.056	0.006	0.011	0.000000	0.000000	2154.26	178
2	FID		ACIS-S-5	7.23	10119	1.000	-0.095	0.027	0.009	0.015	0.000000	0.000000	-1812.07	171
3	GUIDE	used	818807632	9.45	20163	1.000	-0.047	-0.085	0.084	0.136	262.882186	-21.522238	1809.01	2105
4	GUIDE	used	818810616	7.84	20233	1.000	-0.179	-0.076	0.049	0.078	263.165516	-21.873468	558.61	1138
5	GUIDE	used	894698768	9.27	20228	1.000	0.136	-0.040	0.086	0.144	263.387852	-22.648443	-2221.14	361
6	GUIDE	used	894832256	8.82	20232	1.000	0.059	0.058	0.081	0.126	264.009371	-22.542673	-1819.30	-1700
7	GUIDE	used	820526624	9.10	20228	1.000	0.033	0.150	0.088	0.144	264.120973	-22.441088	-1450.71	-2068

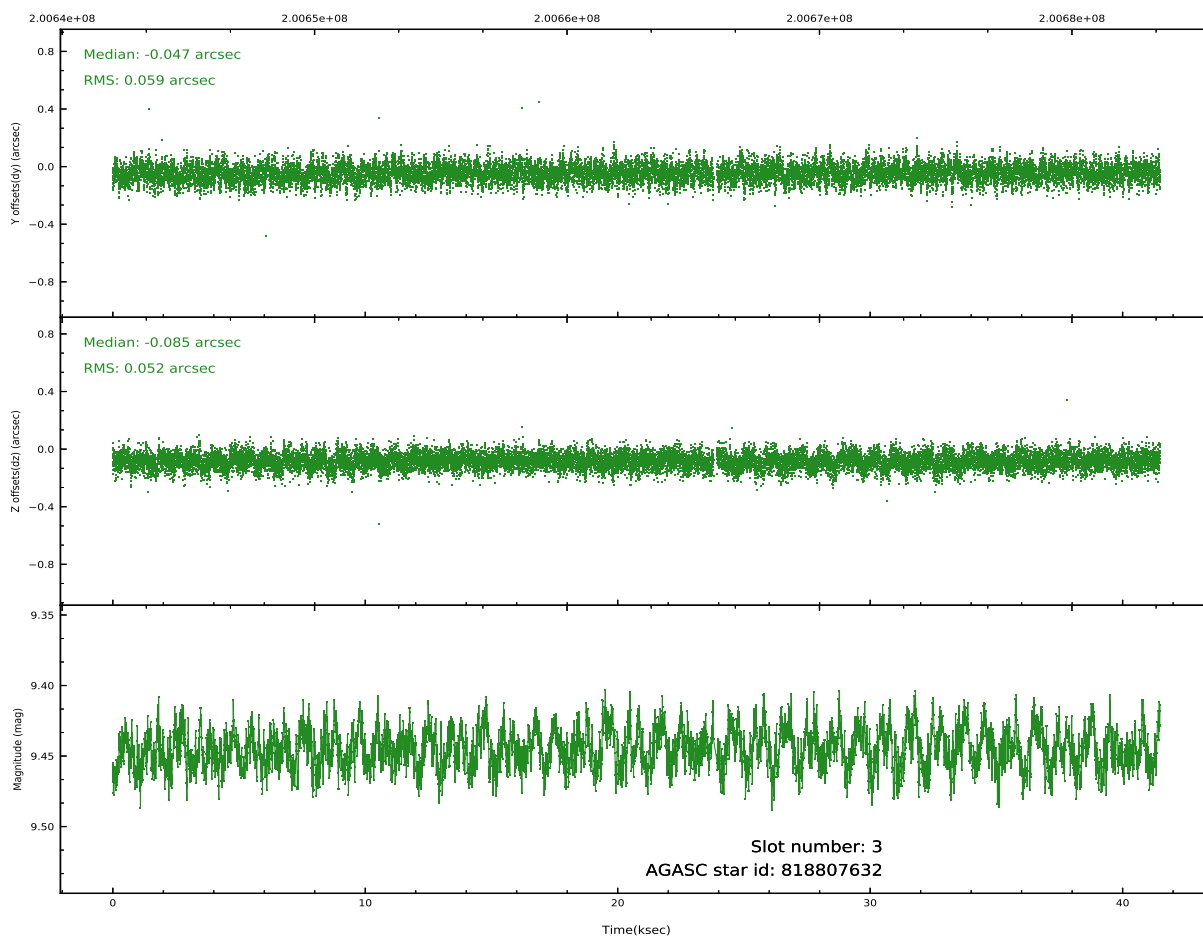
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2.4 Star Slots

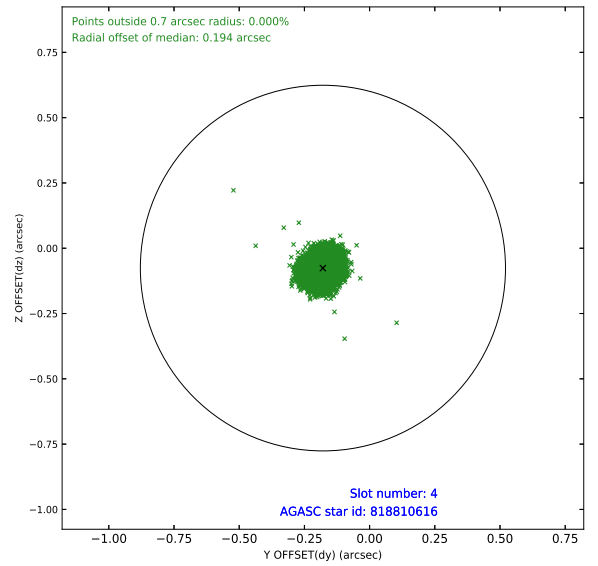
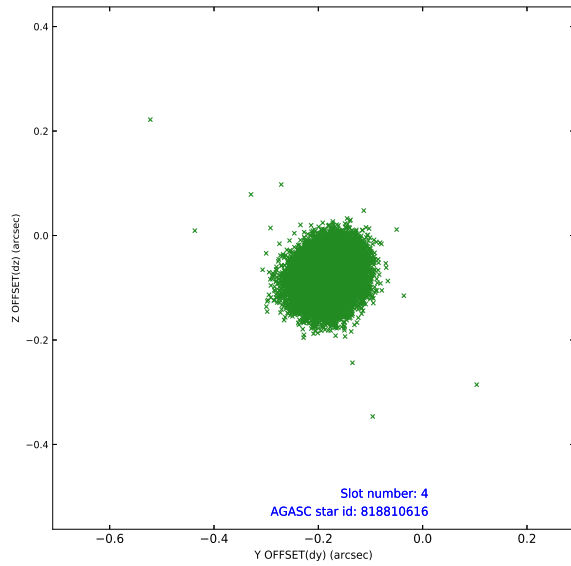
2.4.1 Slot 3



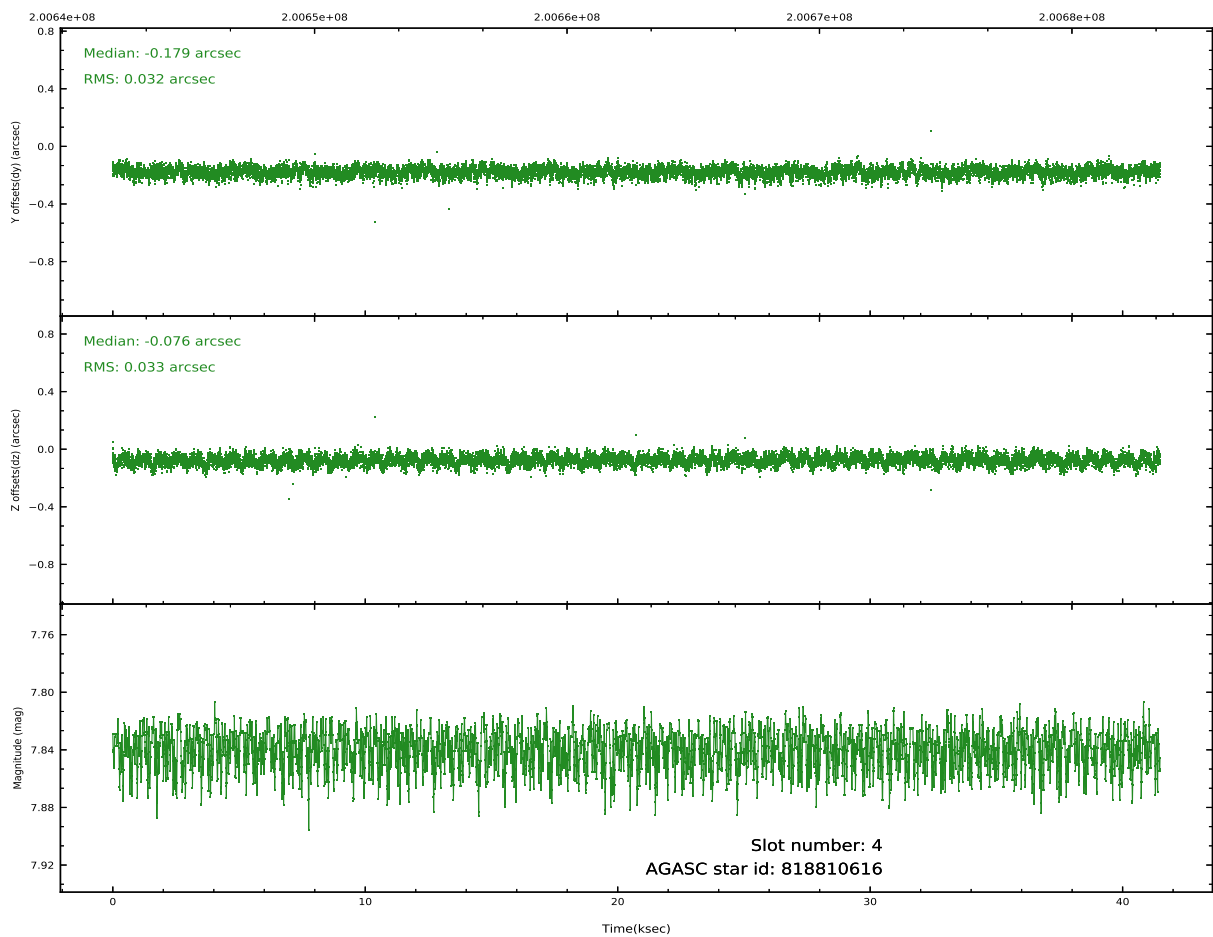
Time (s)



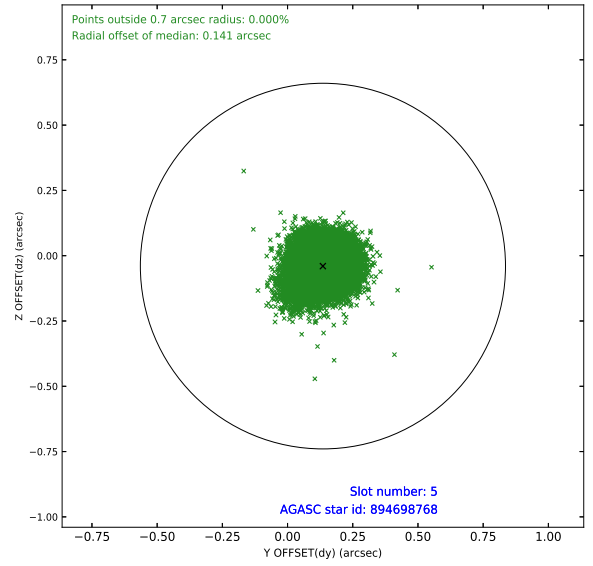
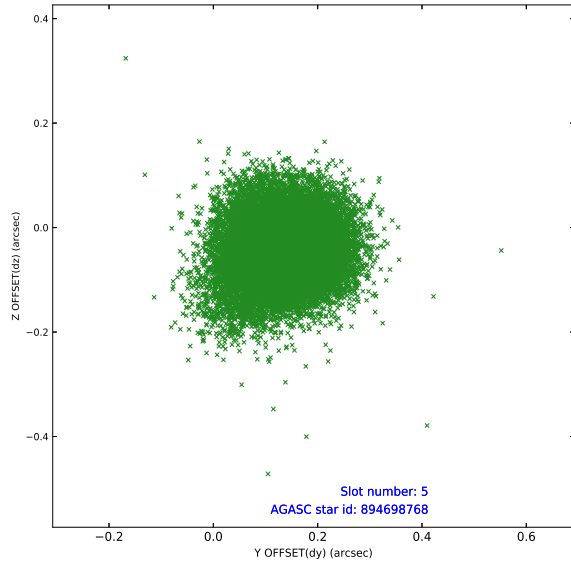
2.4.2 Slot 4



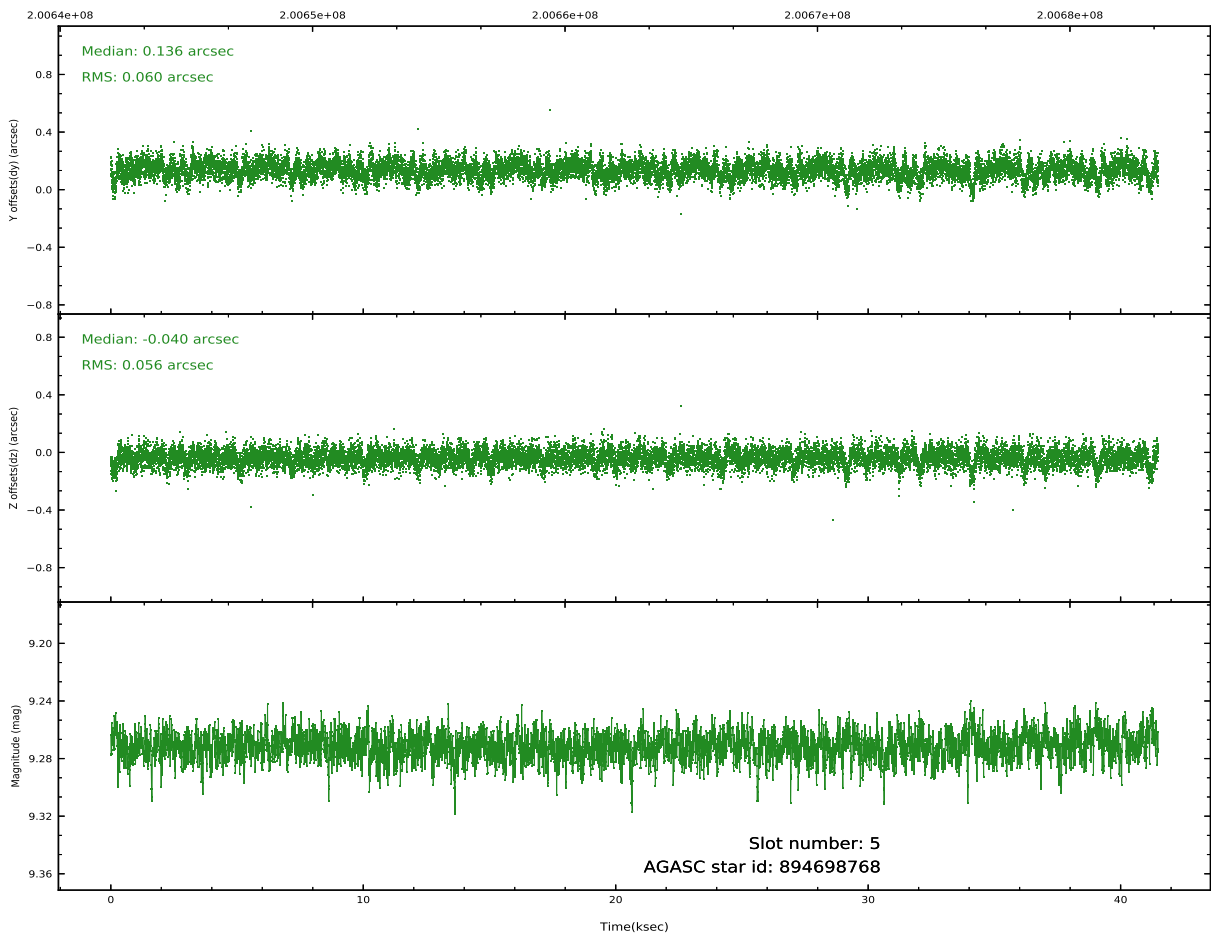
Time (s)



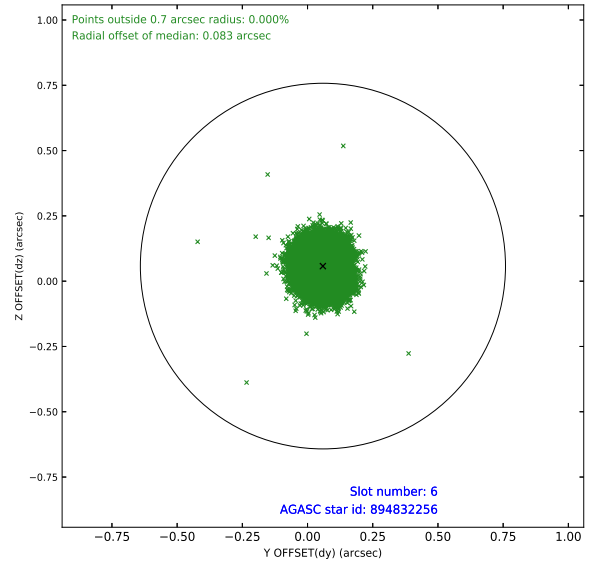
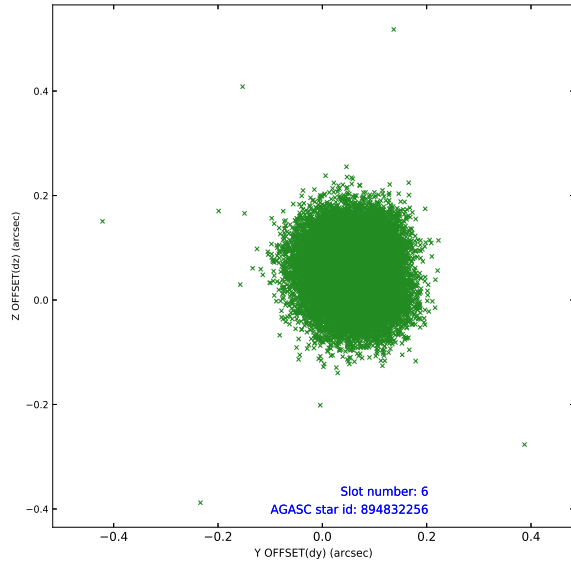
2.4.3 Slot 5



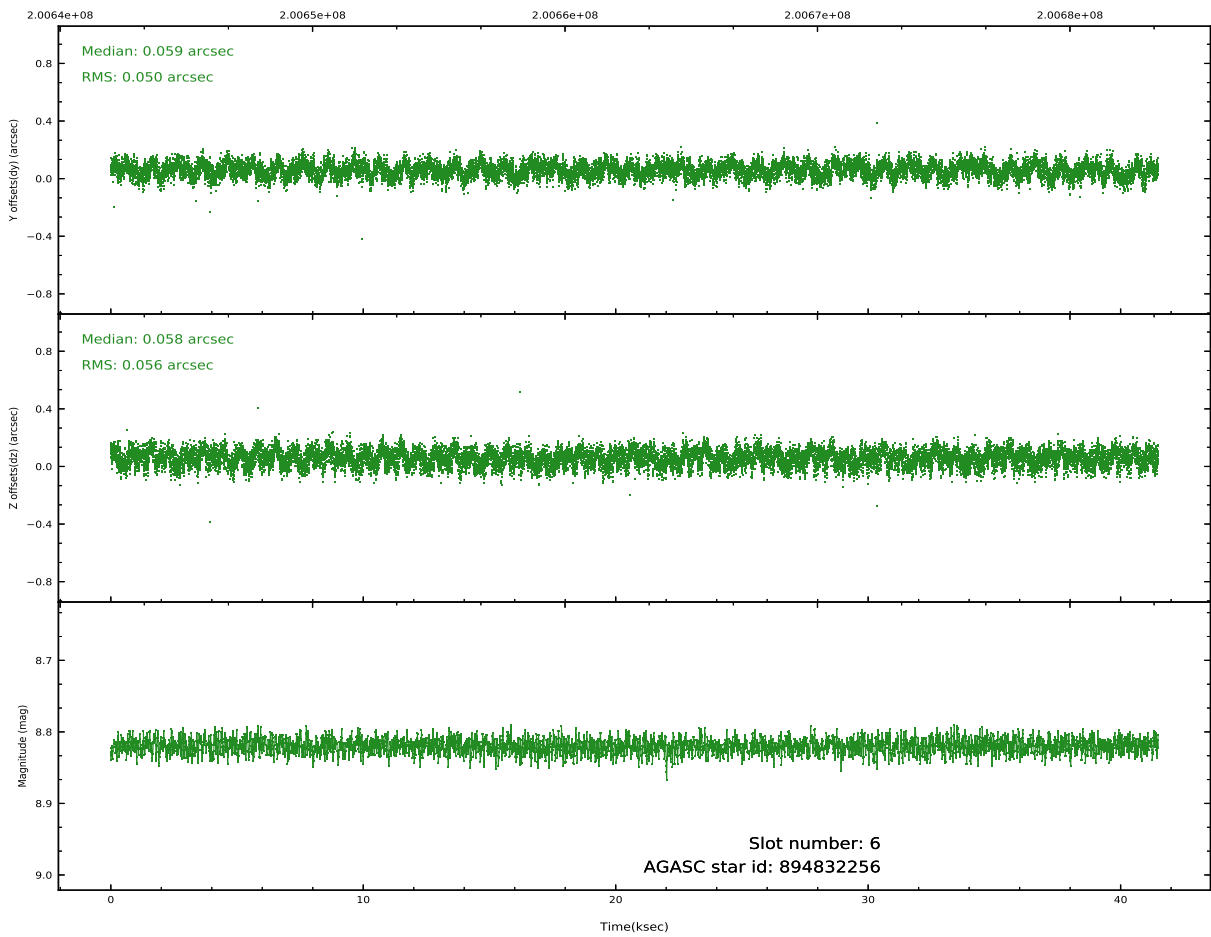
Time (s)



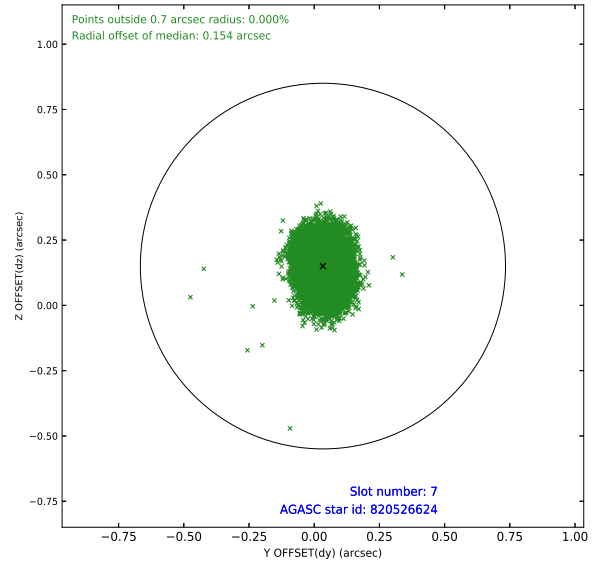
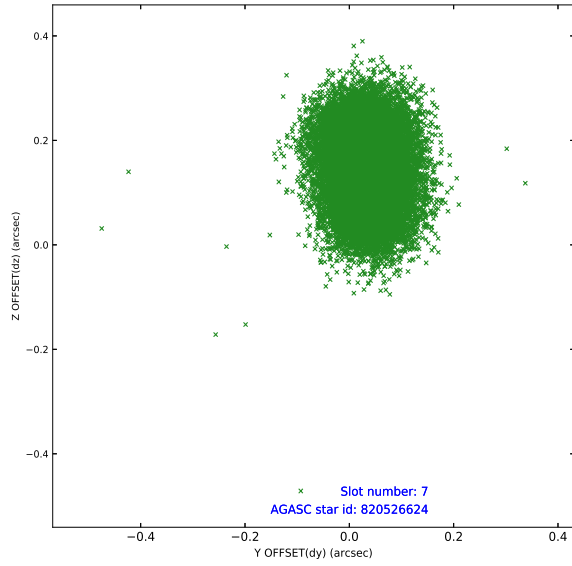
2.4.4 Slot 6



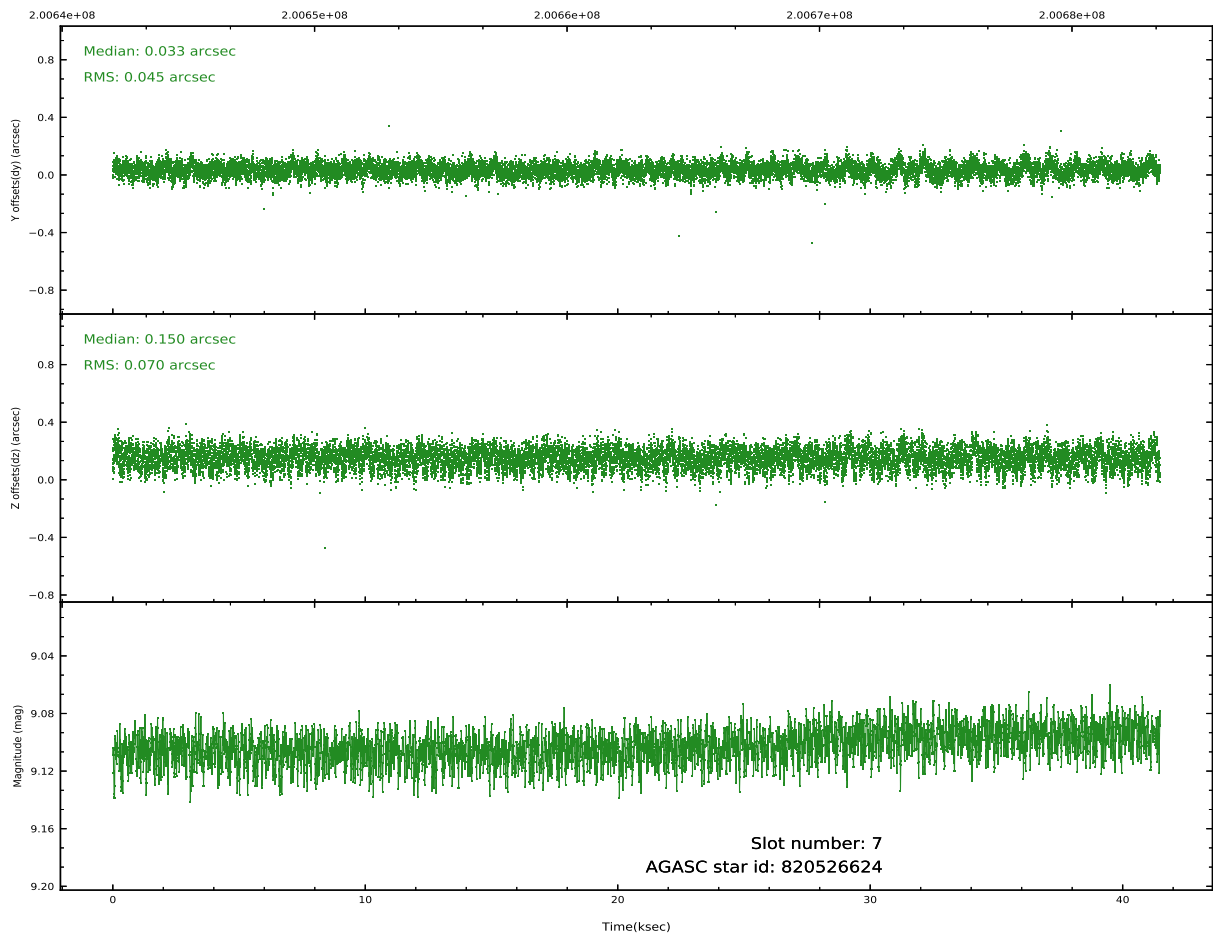
Time (s)



2.4.5 Slot 7

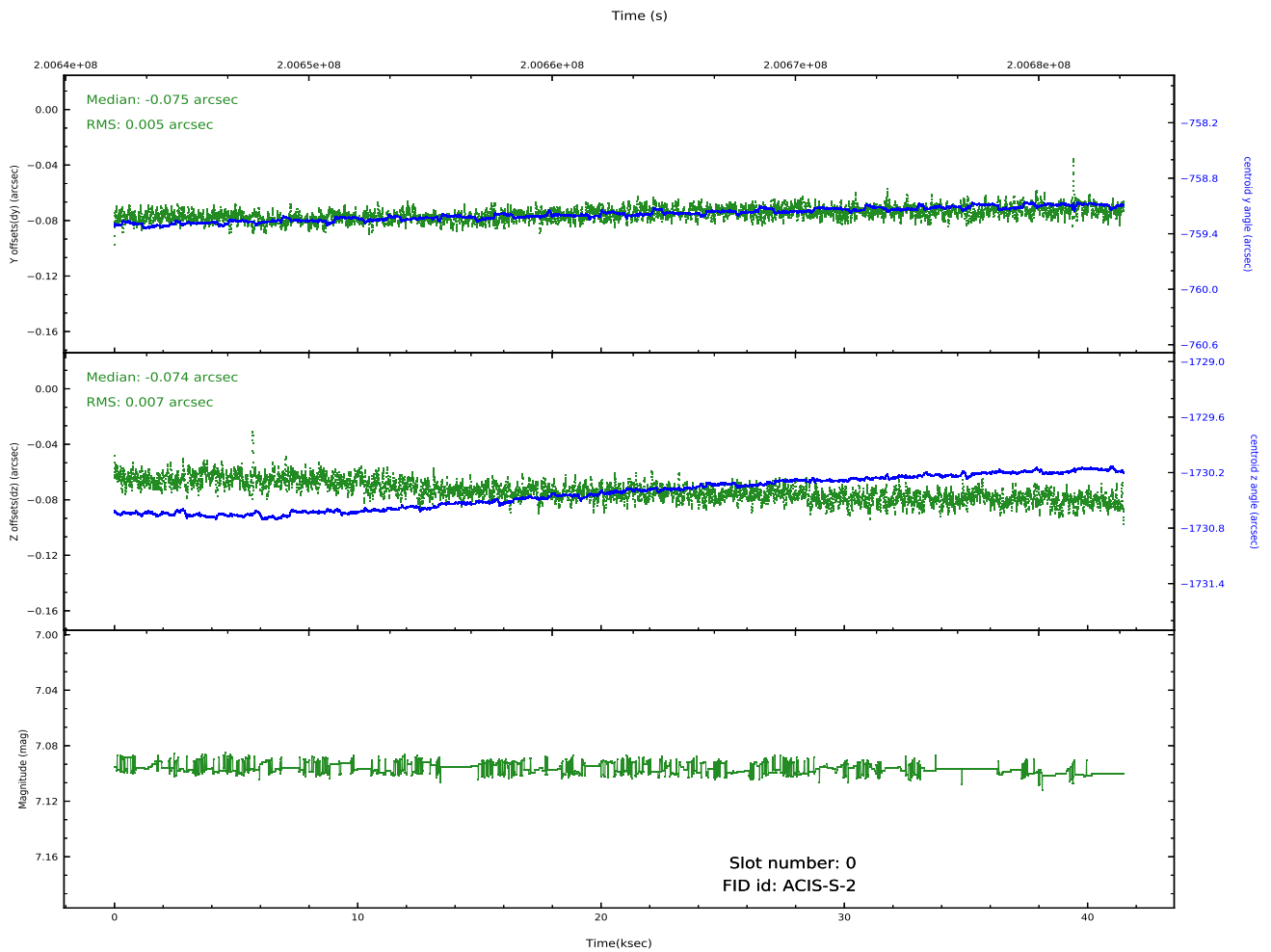
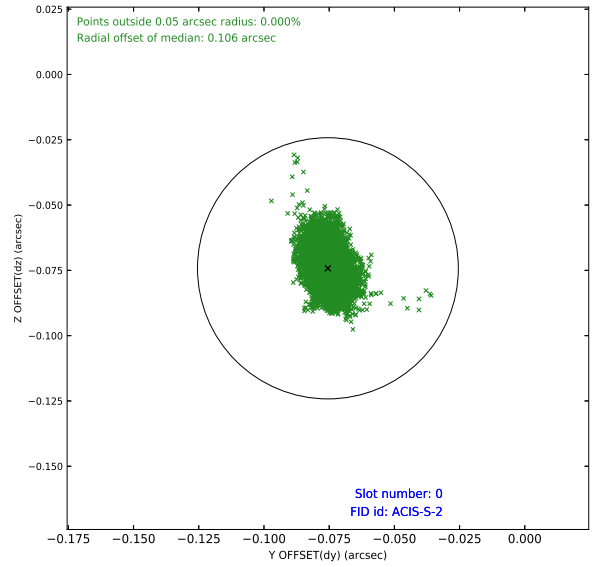
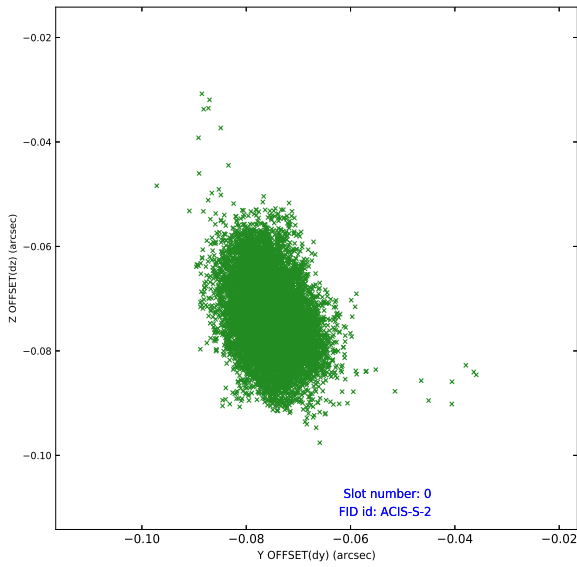


Time (s)

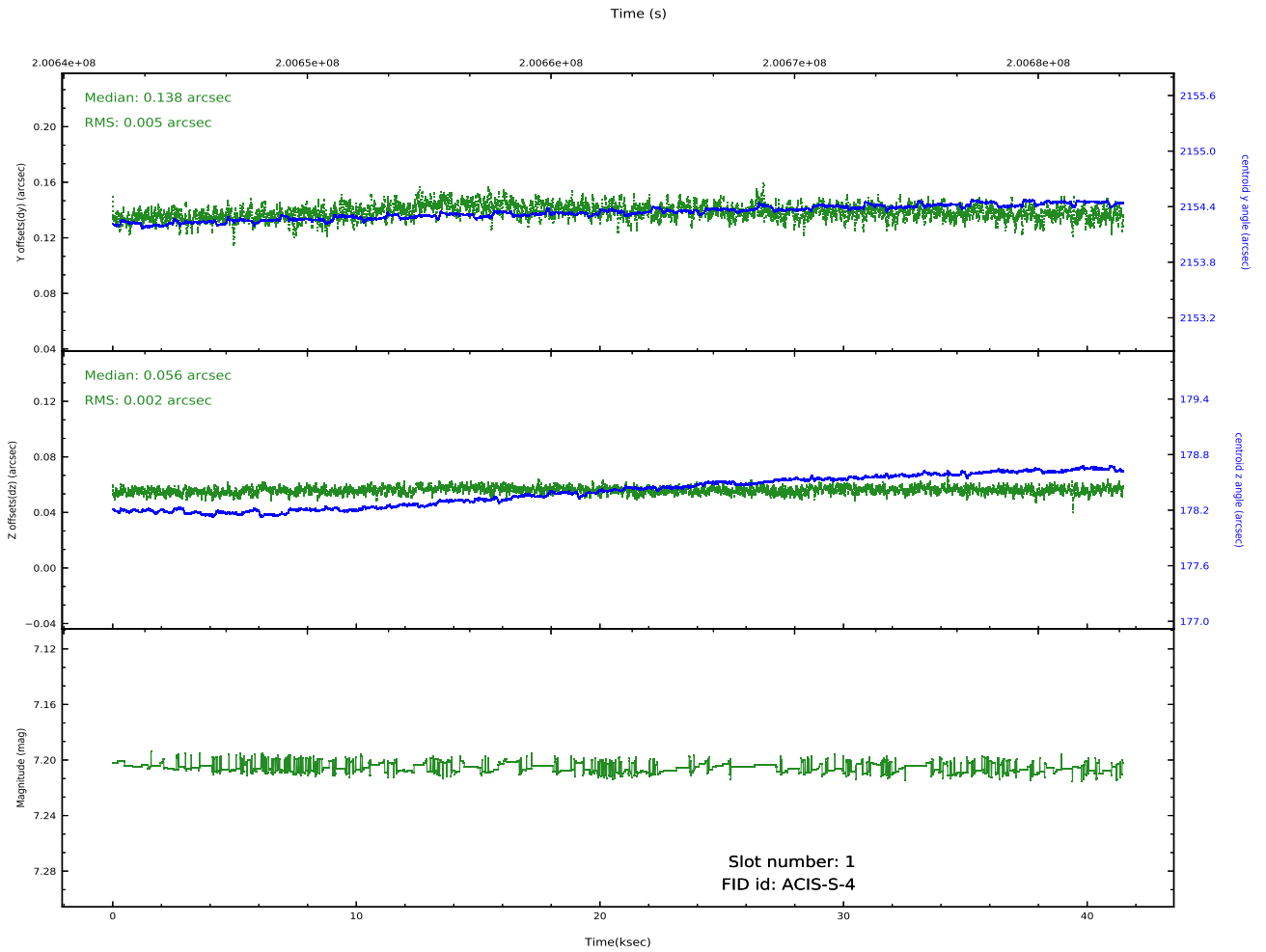
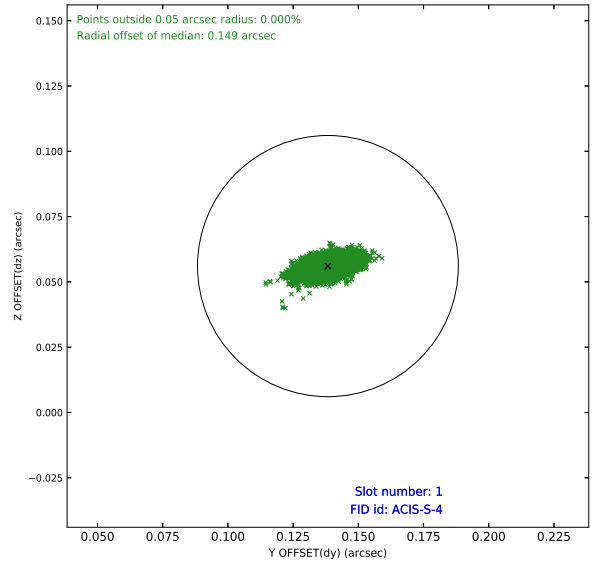
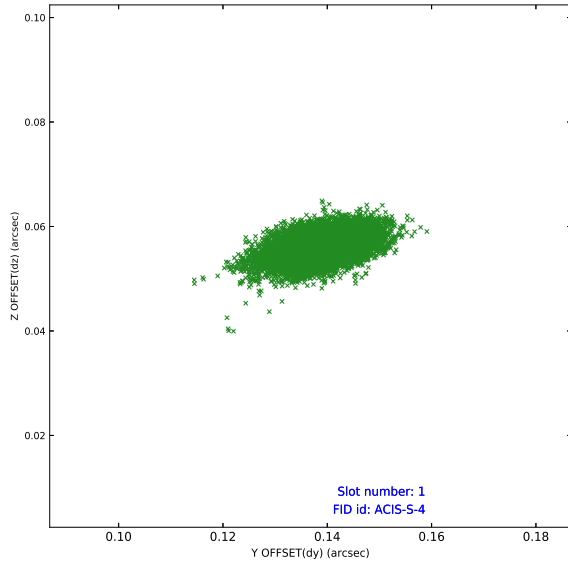


2.5 FID Slots

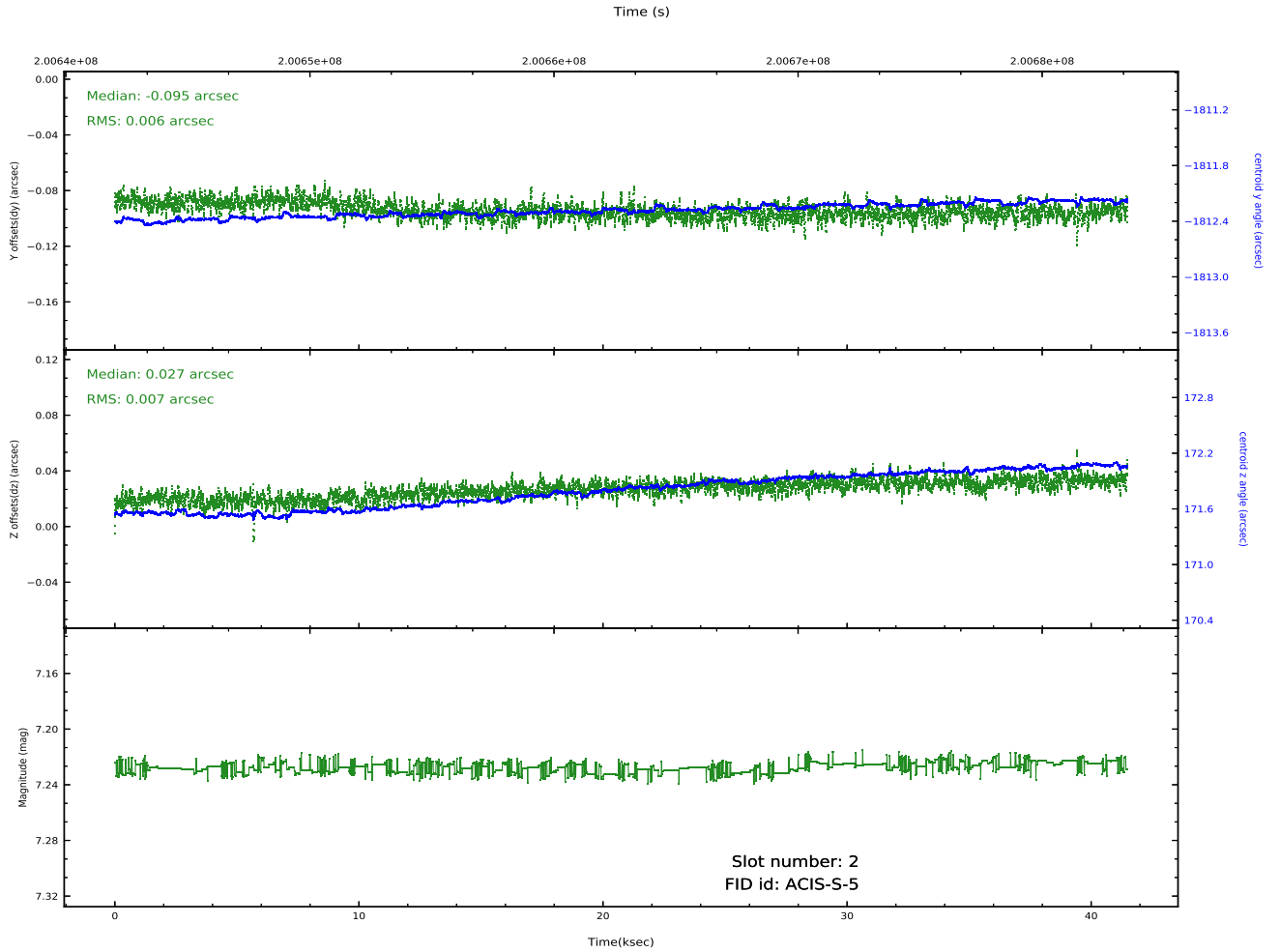
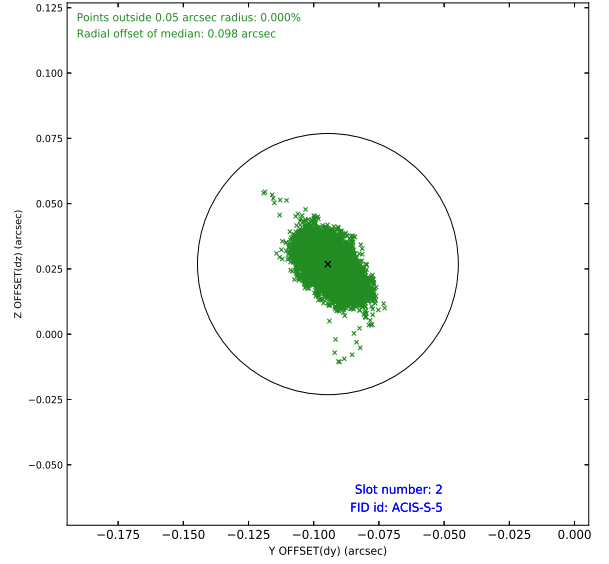
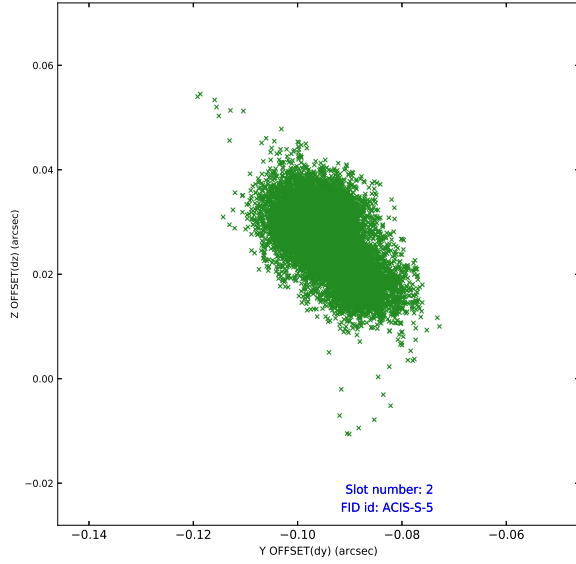
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2020.09.25
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	40.361

A.2 Comments