

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 6175 - L2 Version 4
Chandra X-Ray Center

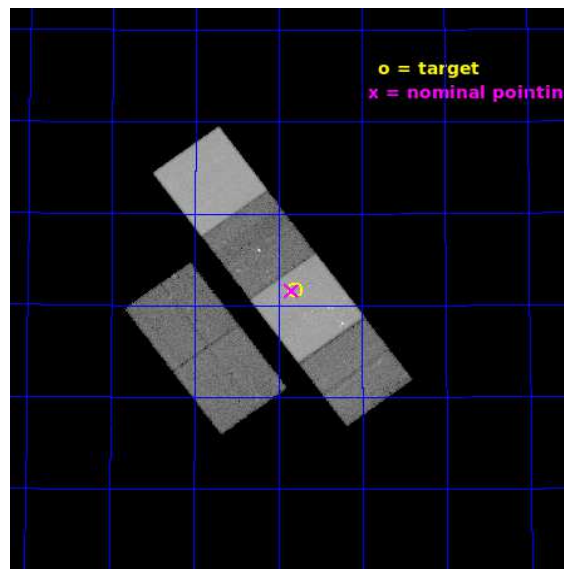
L2 Processing Date : Oct 5 2020

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

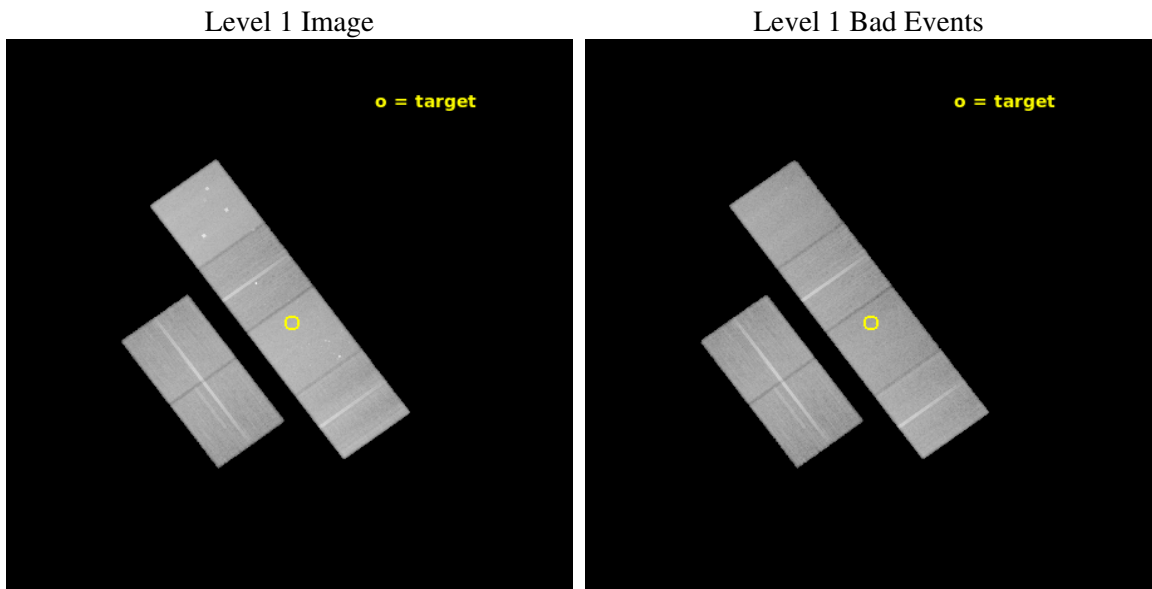
seq_num	600392	Sequence number
obs_id	6175	Observation id
title	An Ultra-Deep Study of M101	Proposal title
observer	Dr. K.D. Kuntz	Principal investigator
object	M101	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	210.950833	Observer's specified target RA [deg]
dec_targ	54.361389	Observer's specified target Dec [deg]
ra_nom	210.95943106859	Nominal RA [deg]
dec_nom	54.360436818012	Nominal Dec [deg]
roll_nom	53.7031650444	Nominal Roll [deg]
revision	4	Processing version of data
ontime	41177.599846601	Sum of GTIs [s]
livetime	40656.18428317	Livetime [s]
ontime2	41177.599846601	Sum of GTIs [s]
ontime3	41171.117906034	Sum of GTIs [s]
ontime5	41177.599846601	Sum of GTIs [s]
ontime6	41177.599846601	Sum of GTIs [s]
ontime7	41177.599846601	Sum of GTIs [s]
ontime8	41177.599846601	Sum of GTIs [s]
l2events	537719	Number of level 2 events



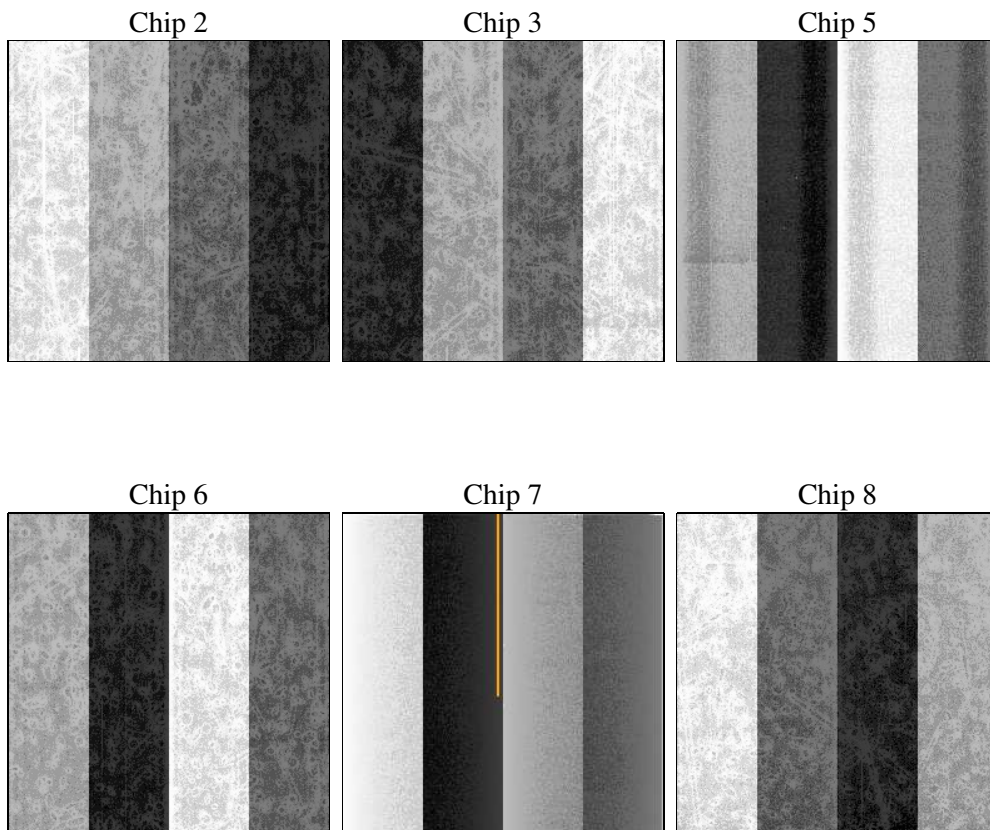
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	41000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	41177.599846601	Sum of GTIs [s]
caldbver	4.9.2	 	ontime2	41177.599846601	Sum of GTIs [s]
date	2020-10-05T18:25:40	Date and time of file creation	ontime3	41171.117906034	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	41177.599846601	Sum of GTIs [s]
			ontime6	41177.599846601	Sum of GTIs [s]
			ontime7	41177.599846601	Sum of GTIs [s]
			ontime8	41177.599846601	Sum of GTIs [s]
			l1events	2330768	Number of level 1 events

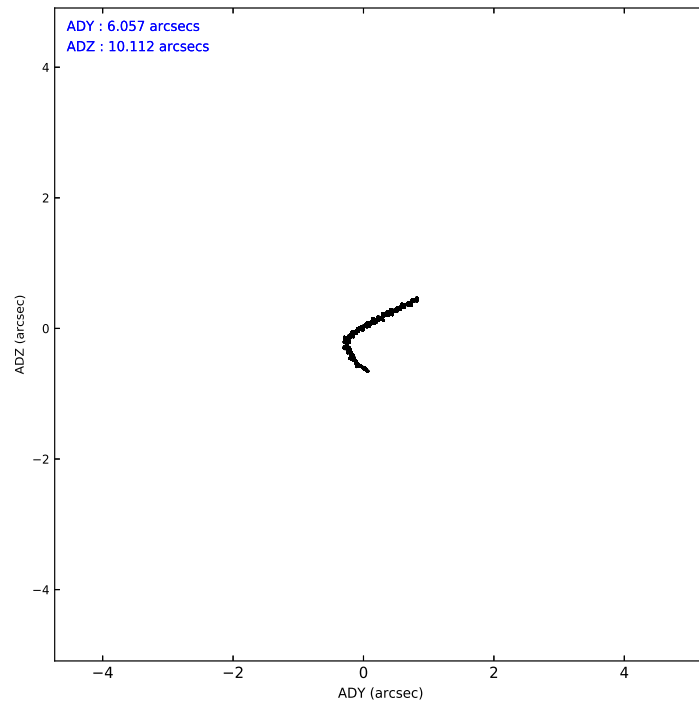
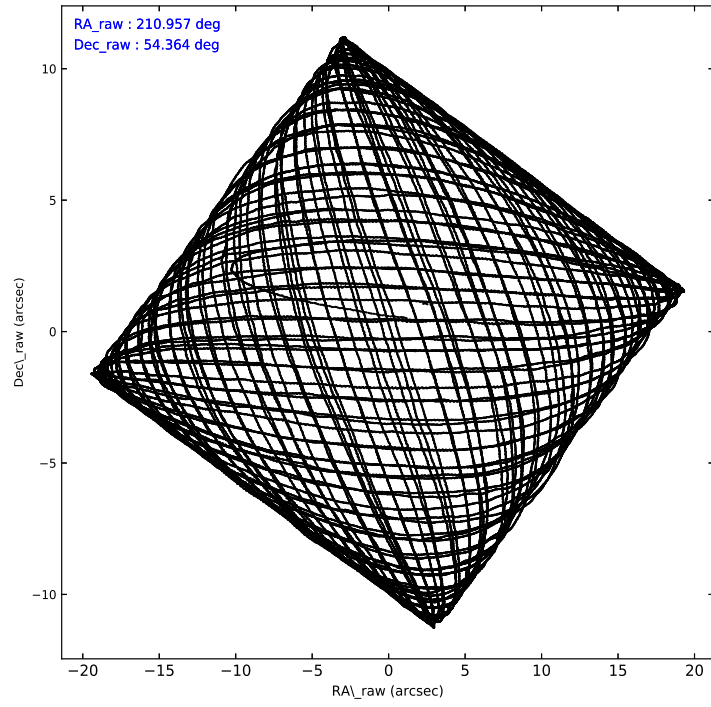
2.1.4 Events

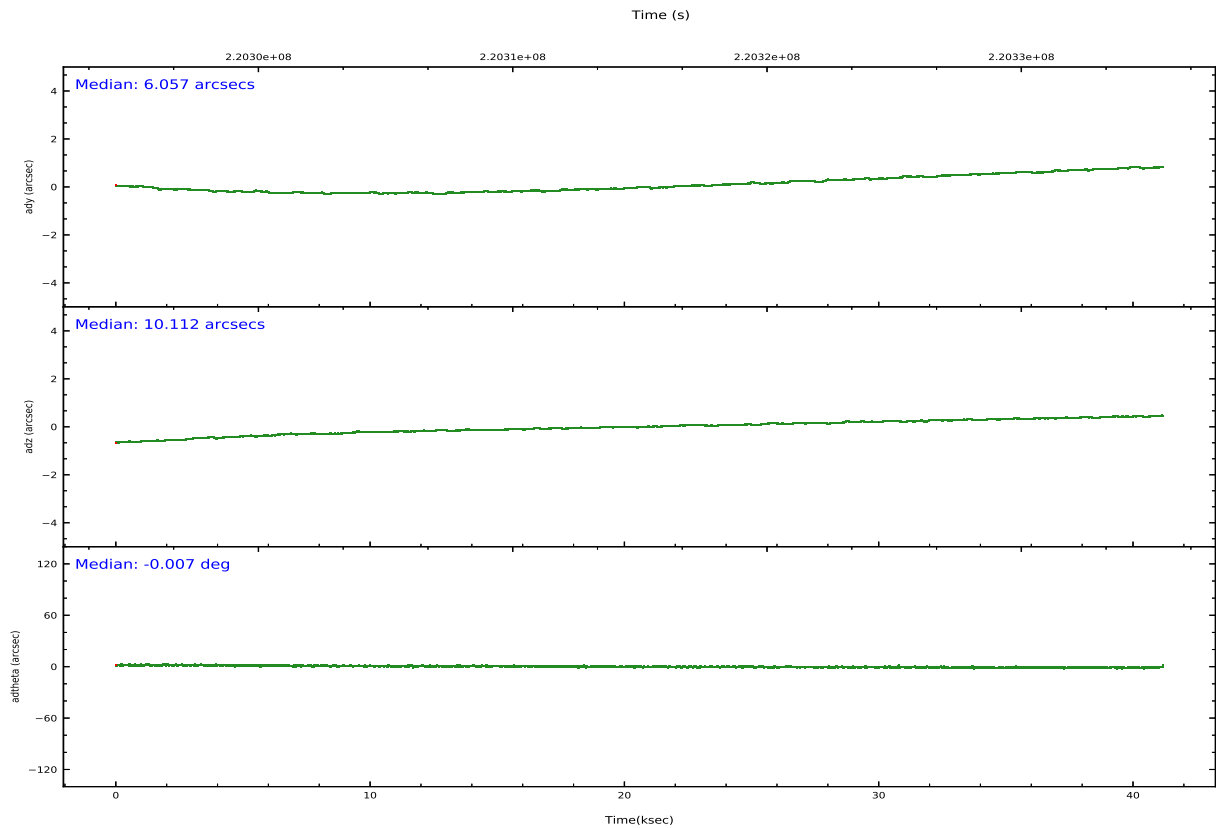
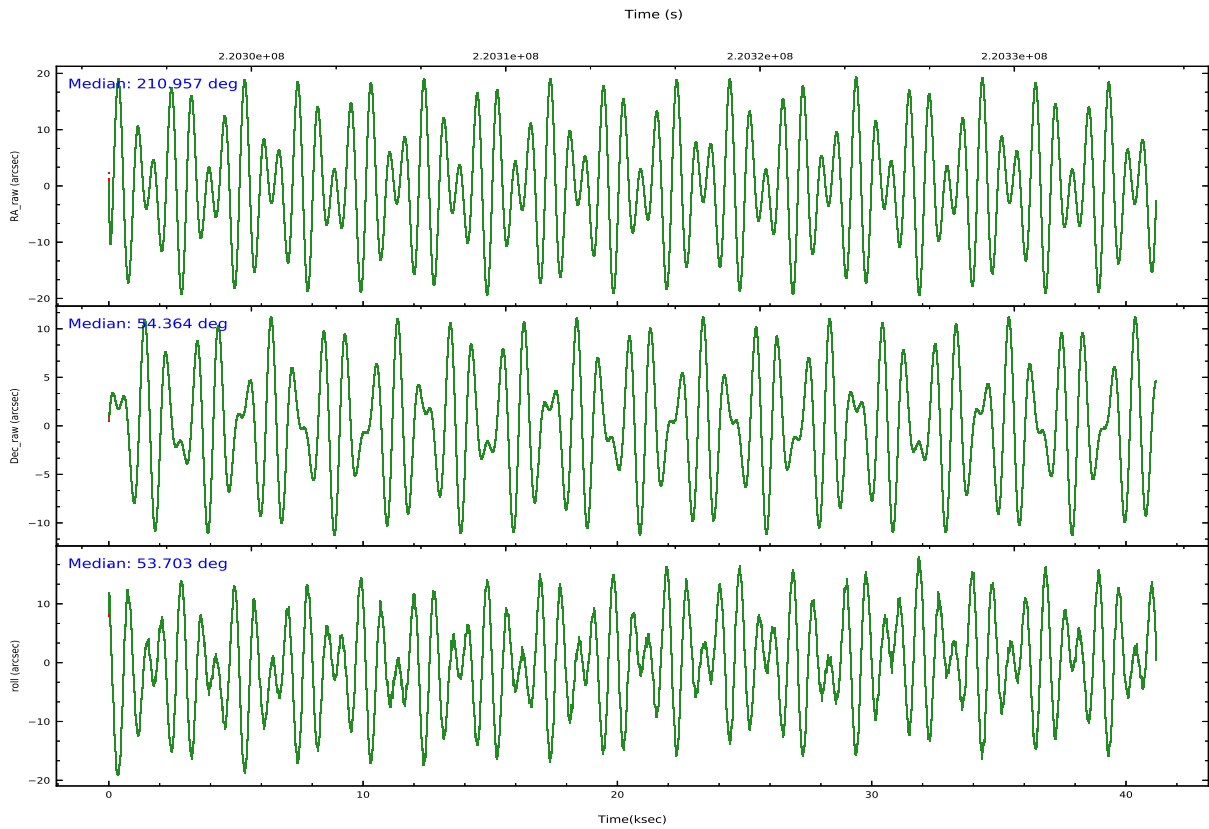
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	335638	317770	483048	335340	443429	415543	grade 0 events	17924	17051	22613	18336	18982	30666
rejected events	295105	278451	262325	292081	254378	321429		5%	5%	4%	5%	4%	7%
rejected %	87%	87%	54%	87%	57%	77%	grade 1 events	236	190	797	175	454	274
								0%	0%	0%	0%	0%	0%
							grade 2 events	8658	7978	64388	9194	37989	20360
								2%	2%	13%	2%	8%	4%
							grade 3 events	3623	3729	8616	3871	16939	10334
								1%	1%	1%	1%	3%	2%
							grade 4 events	3560	3578	8413	3795	17120	9503
								1%	1%	1%	1%	3%	2%
							grade 5 events	12788	14216	35182	15003	42056	19560
								3%	4%	7%	4%	9%	4%
							grade 6 events	6789	7005	116818	8078	98083	23363
								2%	2%	24%	2%	22%	5%
							grade 7 events	282060	264023	226221	276888	211806	301483
								84%	83%	46%	82%	47%	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	210.952749	210.95943106859	Subarray requested	NONE	NONE
[deg] Pointing Dec	54.336526	54.360436818012	Alternating exposures requested	N	N
[deg] Pointing Roll	53.549439	53.7031650444	[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)	220294576.184000	220293498.47106			
Observation start date	2004-12-24T16:55:12	2004-12-24T16:38:18			
[s] Observation end time (MET)	220335576.184000	220336176.39798			
Observation end date	2004-12-25T04:18:32	2004-12-25T04:29:36			
Read mode	TIMED	TIMED			

2.3 Aspect





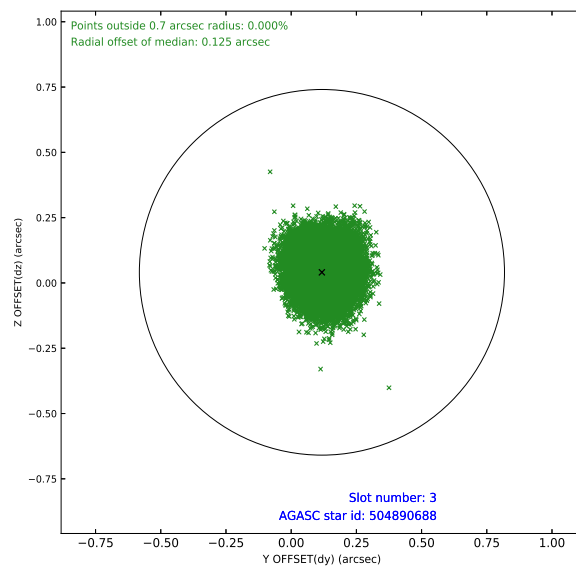
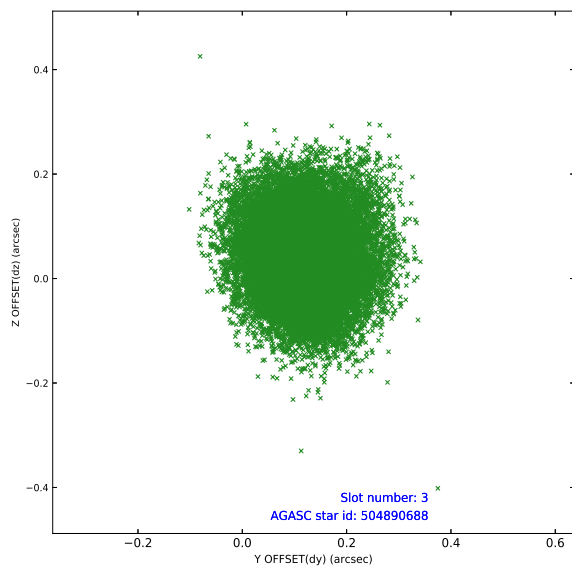
Slot Statistics

slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-4	7.20	10046	1.000	0.104	-0.001	0.010	0.014	0.000000	0.000000	2154.55	177
1	FID		ACIS-S-5	7.23	10042	1.000	-0.155	-0.008	0.013	0.021	0.000000	0.000000	-1811.89	170
2	FID		ACIS-S-6	7.35	10044	1.000	0.025	0.023	0.014	0.023	0.000000	0.000000	402.69	814
3	GUIDE	used	504890688	9.19	20080	1.000	0.118	0.041	0.109	0.170	211.697686	53.837149	-498.65	-2336
4	GUIDE	used	504891480	8.07	20026	1.000	-0.028	-0.080	0.073	0.118	210.708012	54.666096	652.42	1115
5	GUIDE	used	504894408	9.26	20078	1.000	-0.110	0.090	0.100	0.158	211.942794	54.047749	419.22	-2291
6	GUIDE	used	504894856	8.97	20081	1.000	0.097	-0.025	0.081	0.134	209.819510	54.132689	-1994.72	1497
7	GUIDE	used	505292416	9.30	20078	1.000	-0.084	-0.021	0.103	0.163	210.920759	55.040479	1999.31	1559

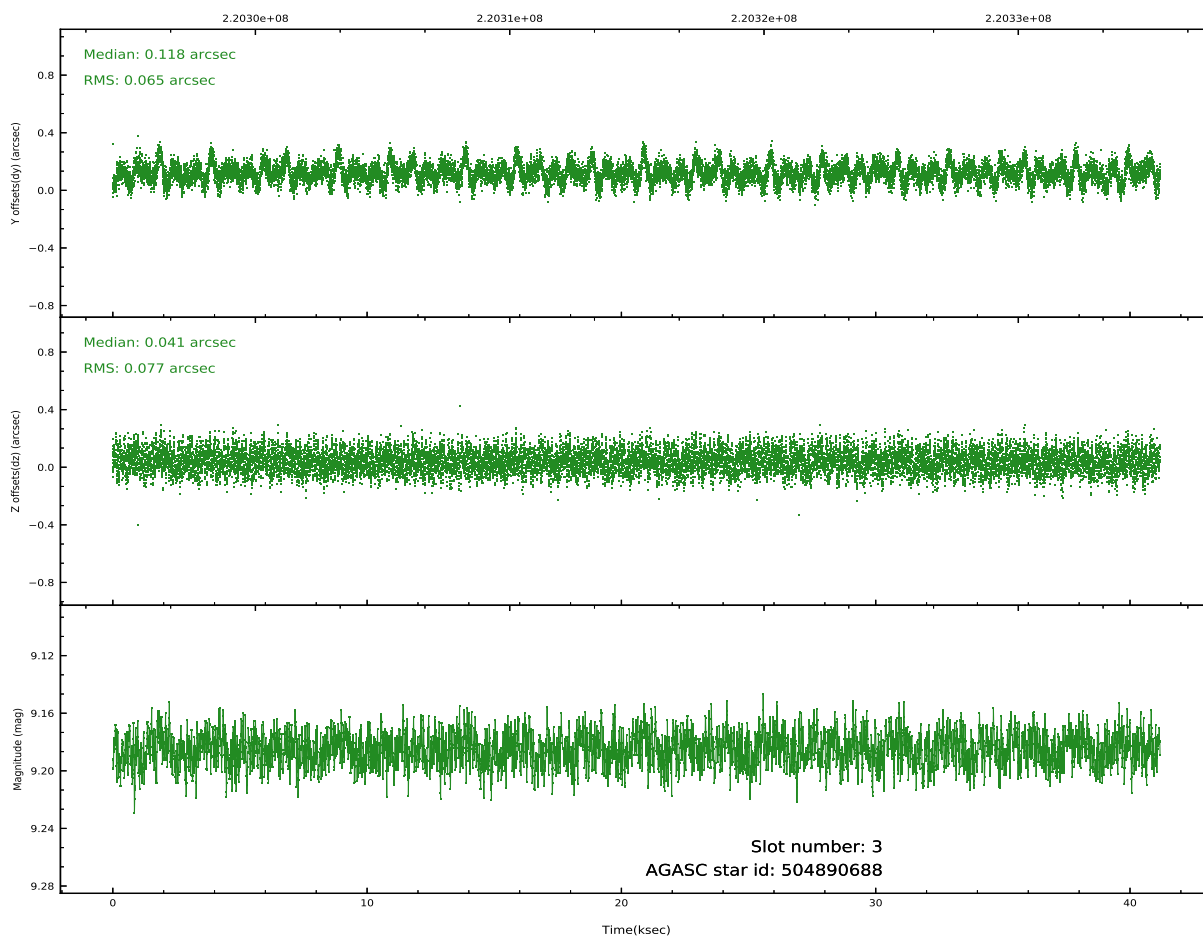
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2.4 Star Slots

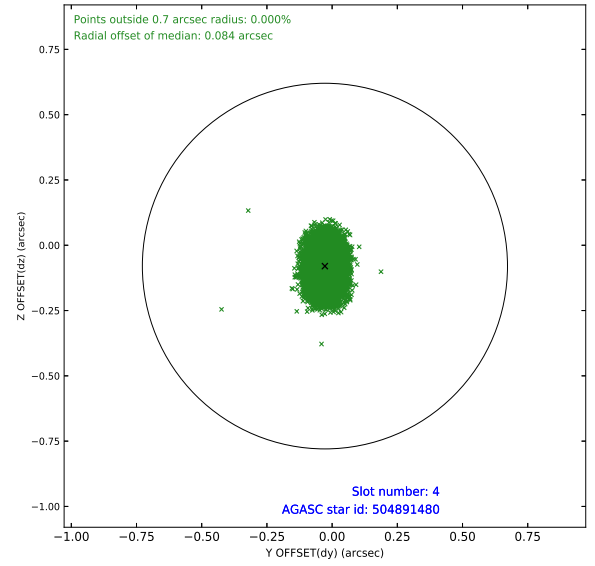
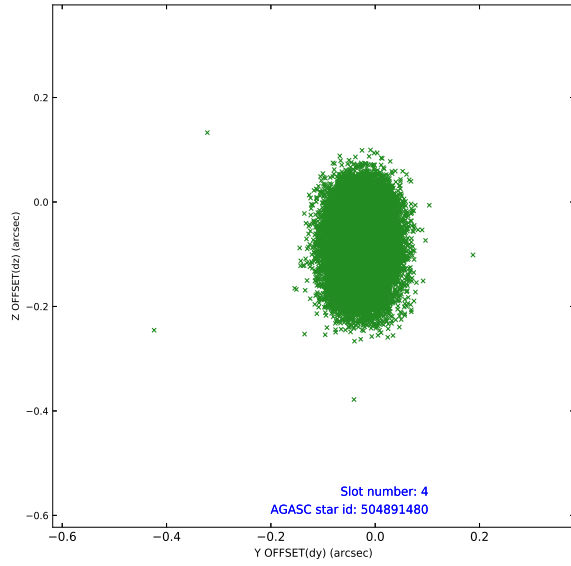
2.4.1 Slot 3



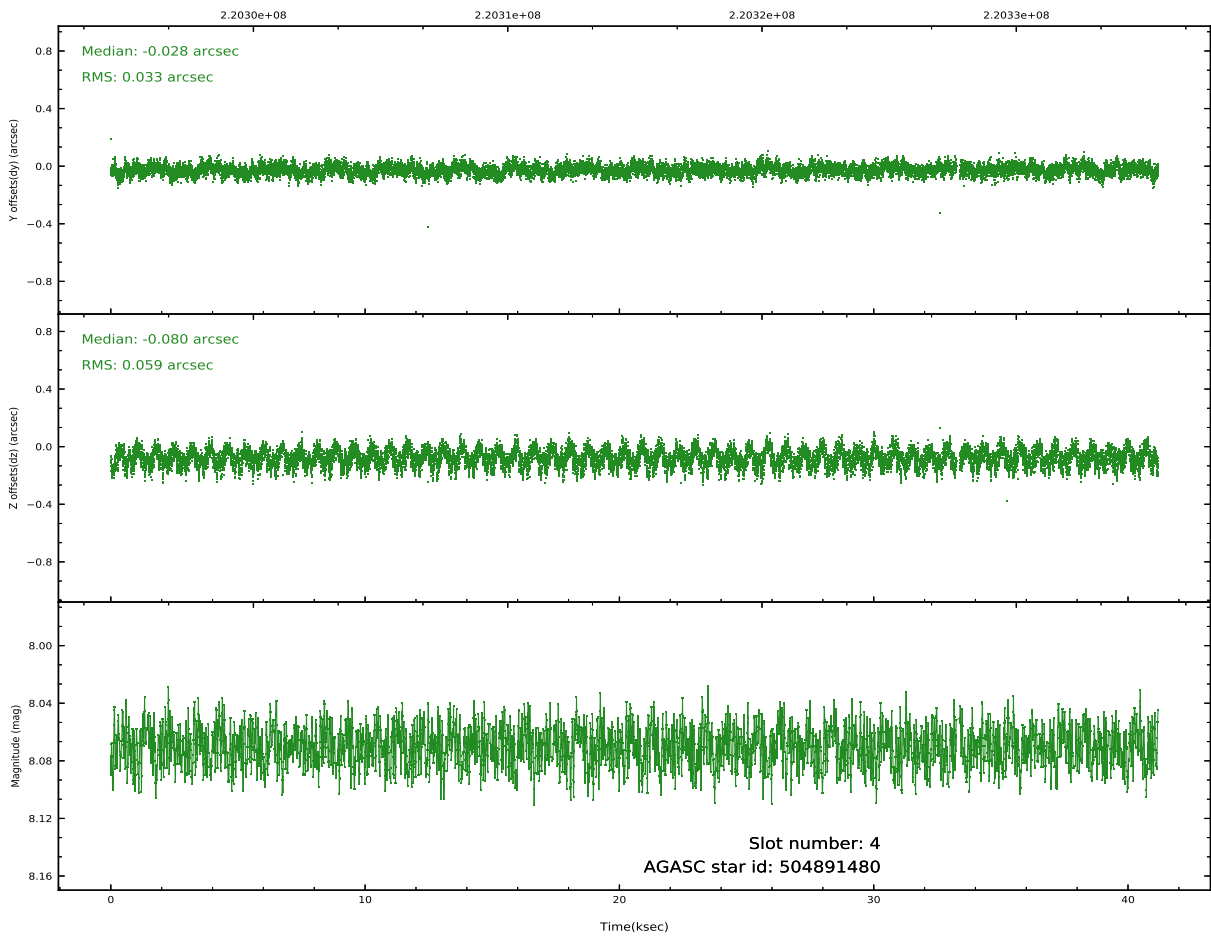
Time (s)



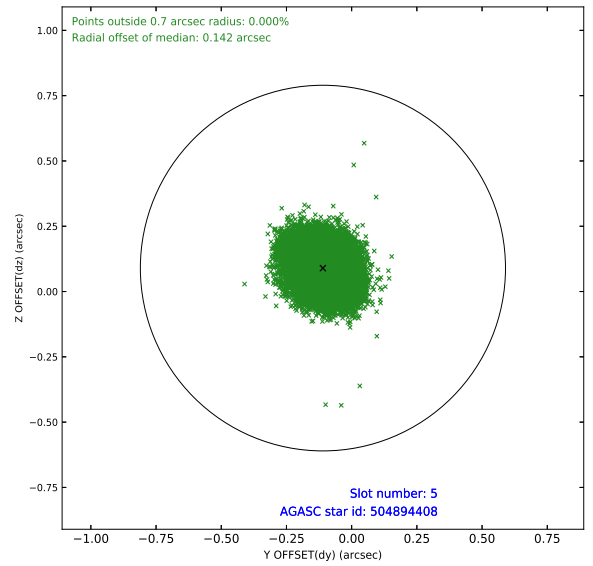
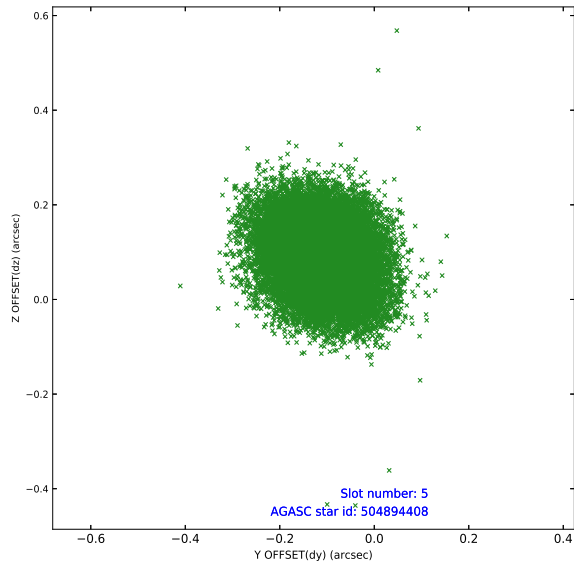
2.4.2 Slot 4



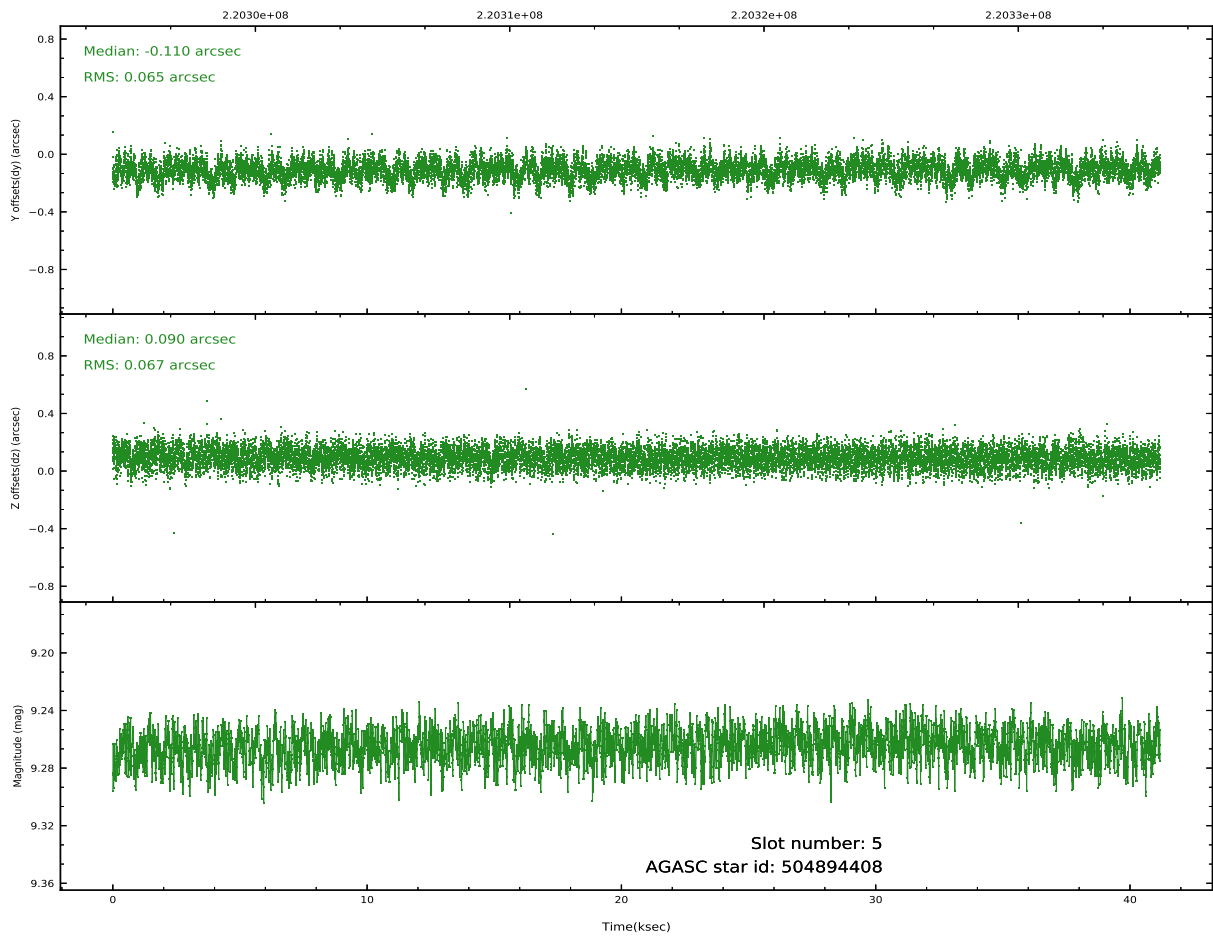
Time (s)



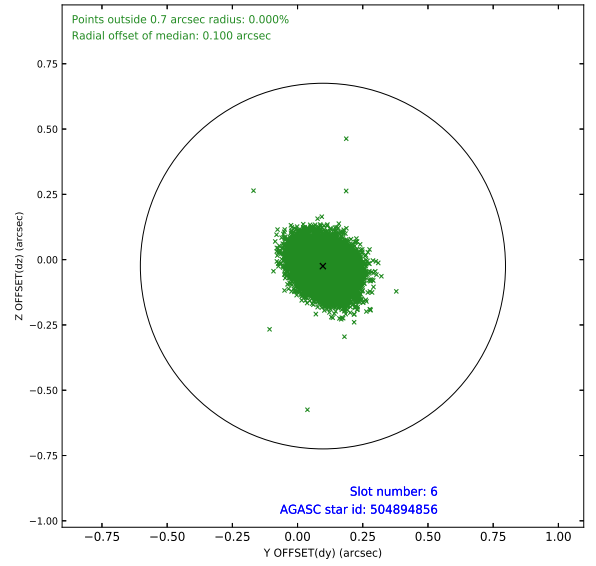
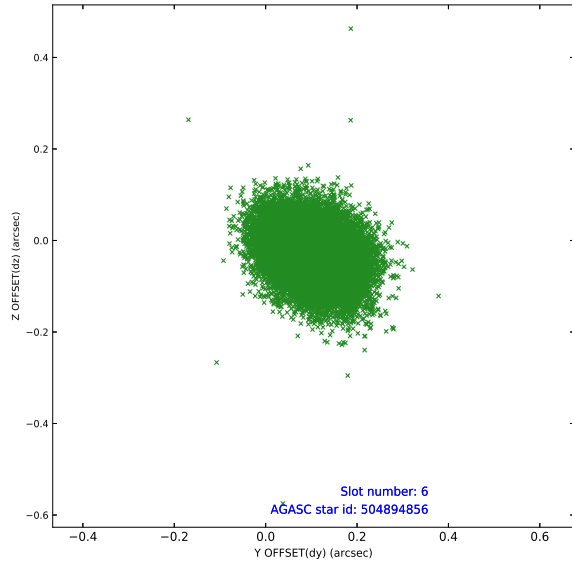
2.4.3 Slot 5



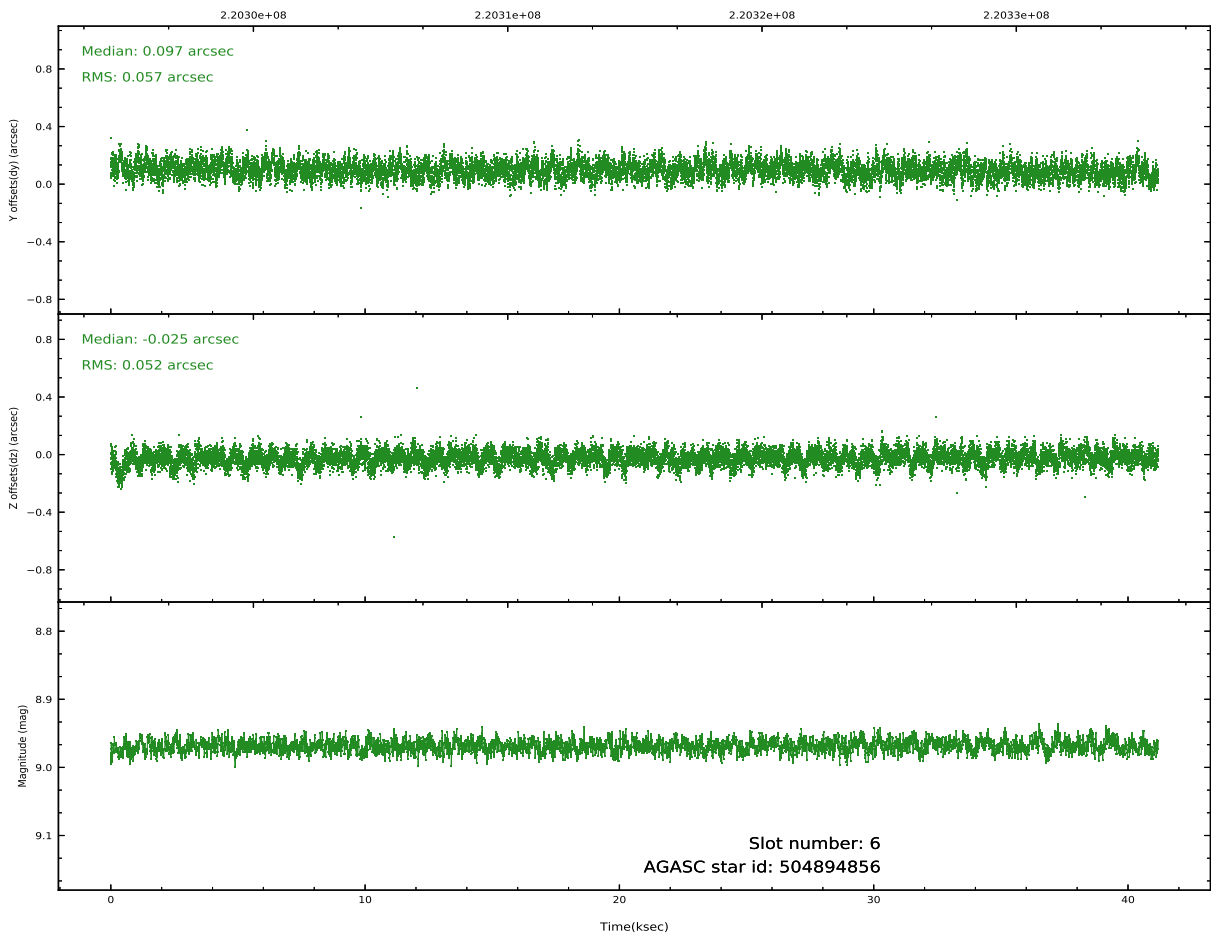
Time (s)



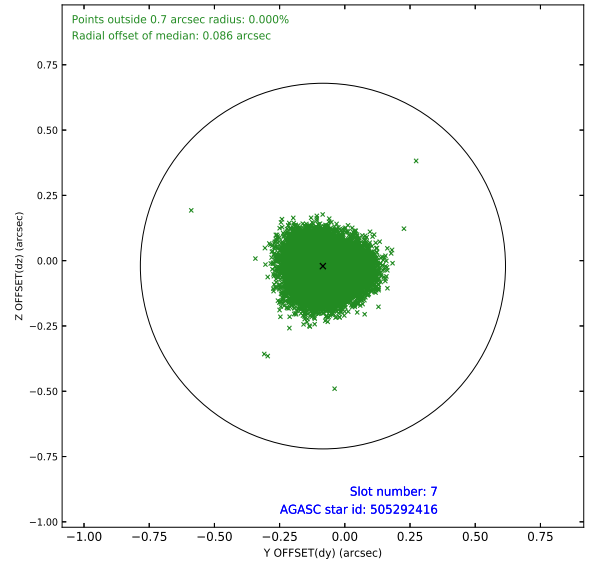
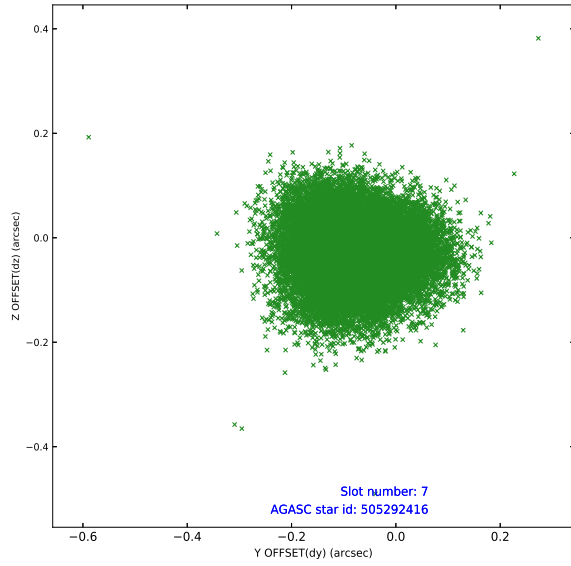
2.4.4 Slot 6



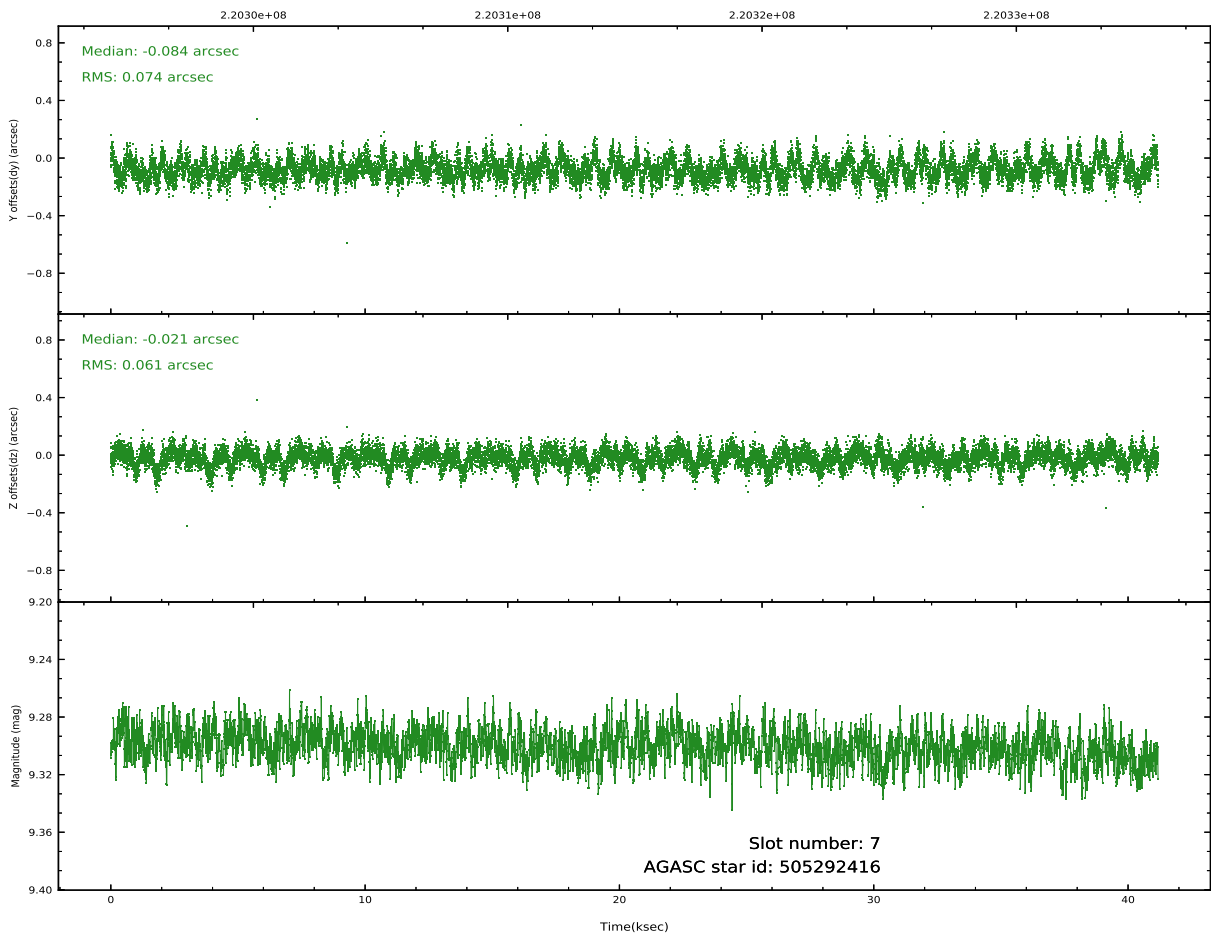
Time (s)



2.4.5 Slot 7

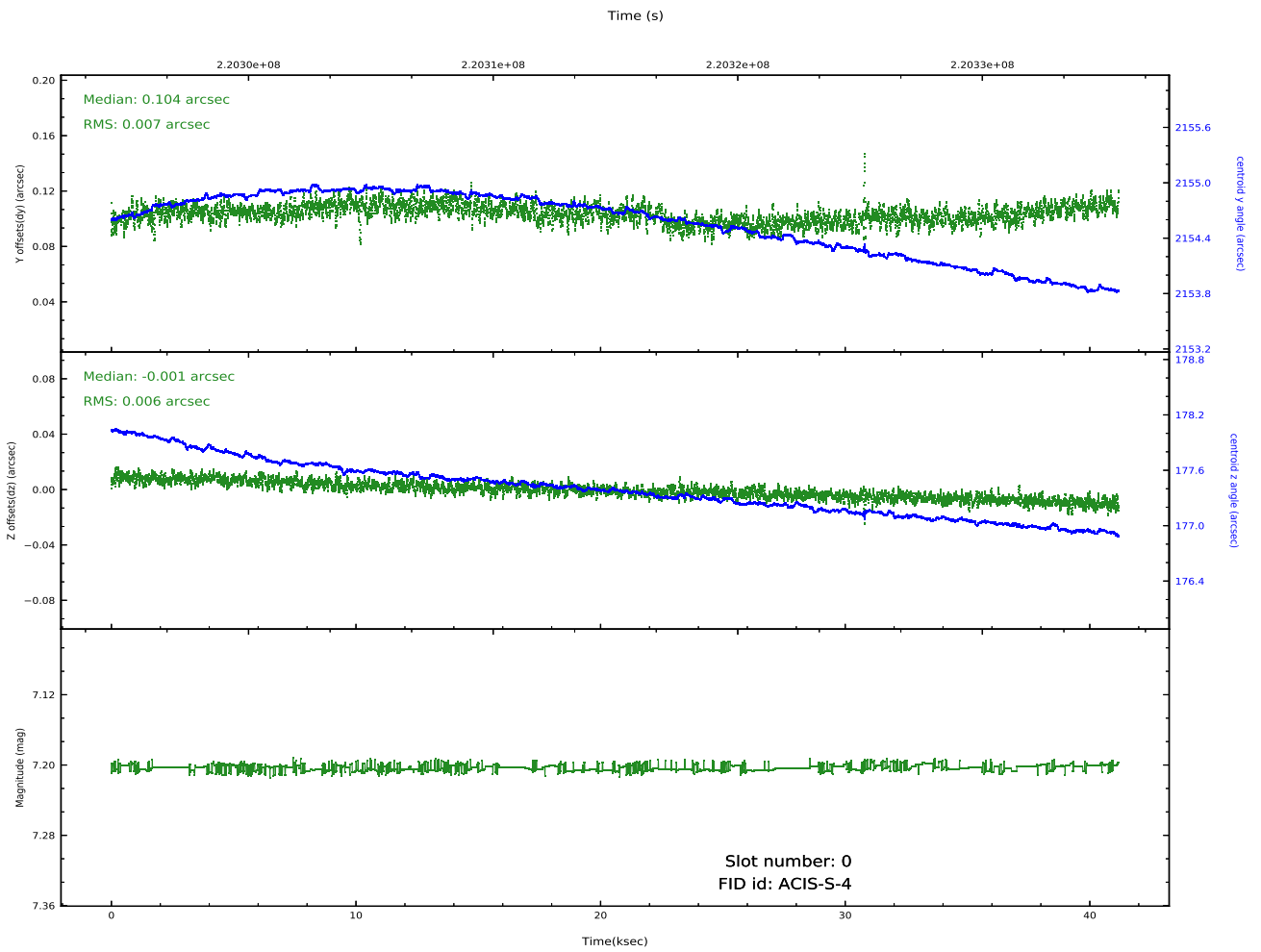
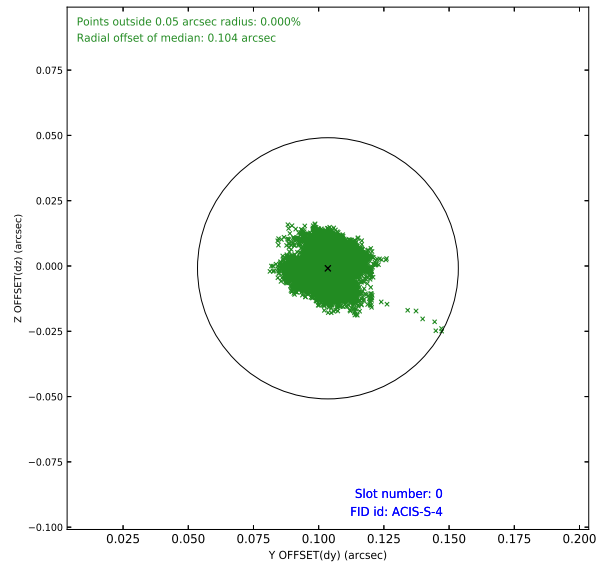
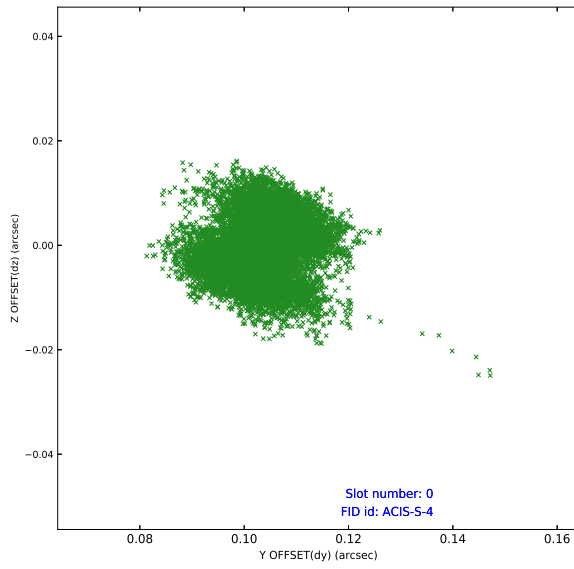


Time (s)

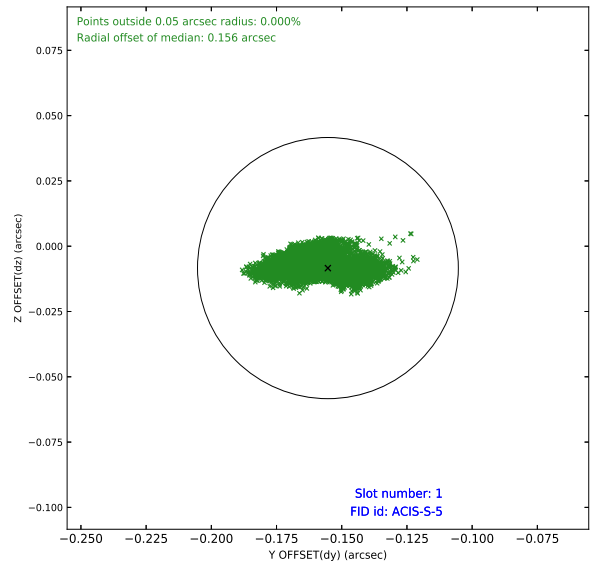
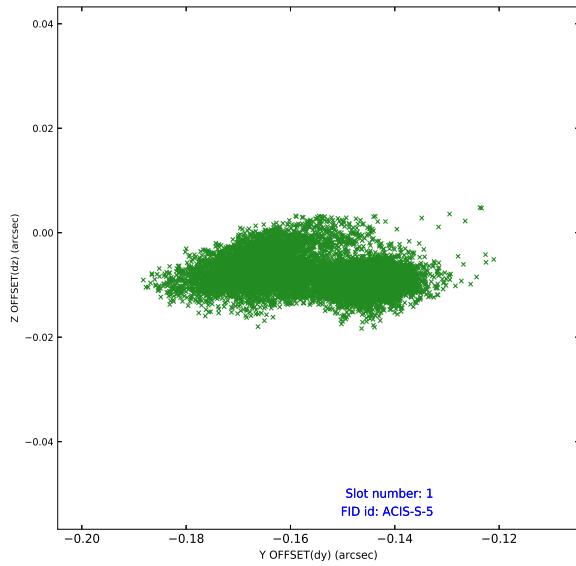


2.5 FID Slots

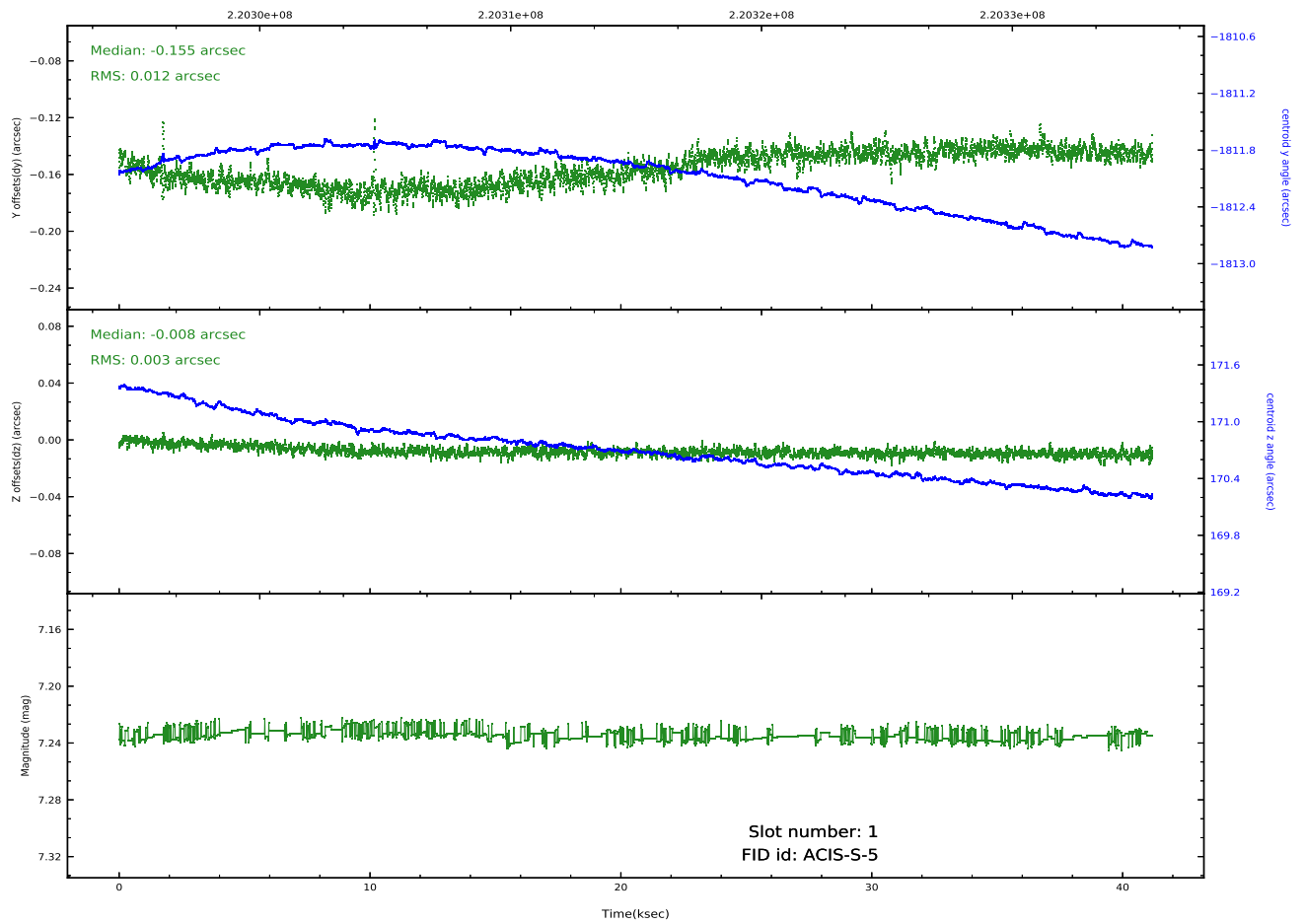
2.5.1 Slot 0



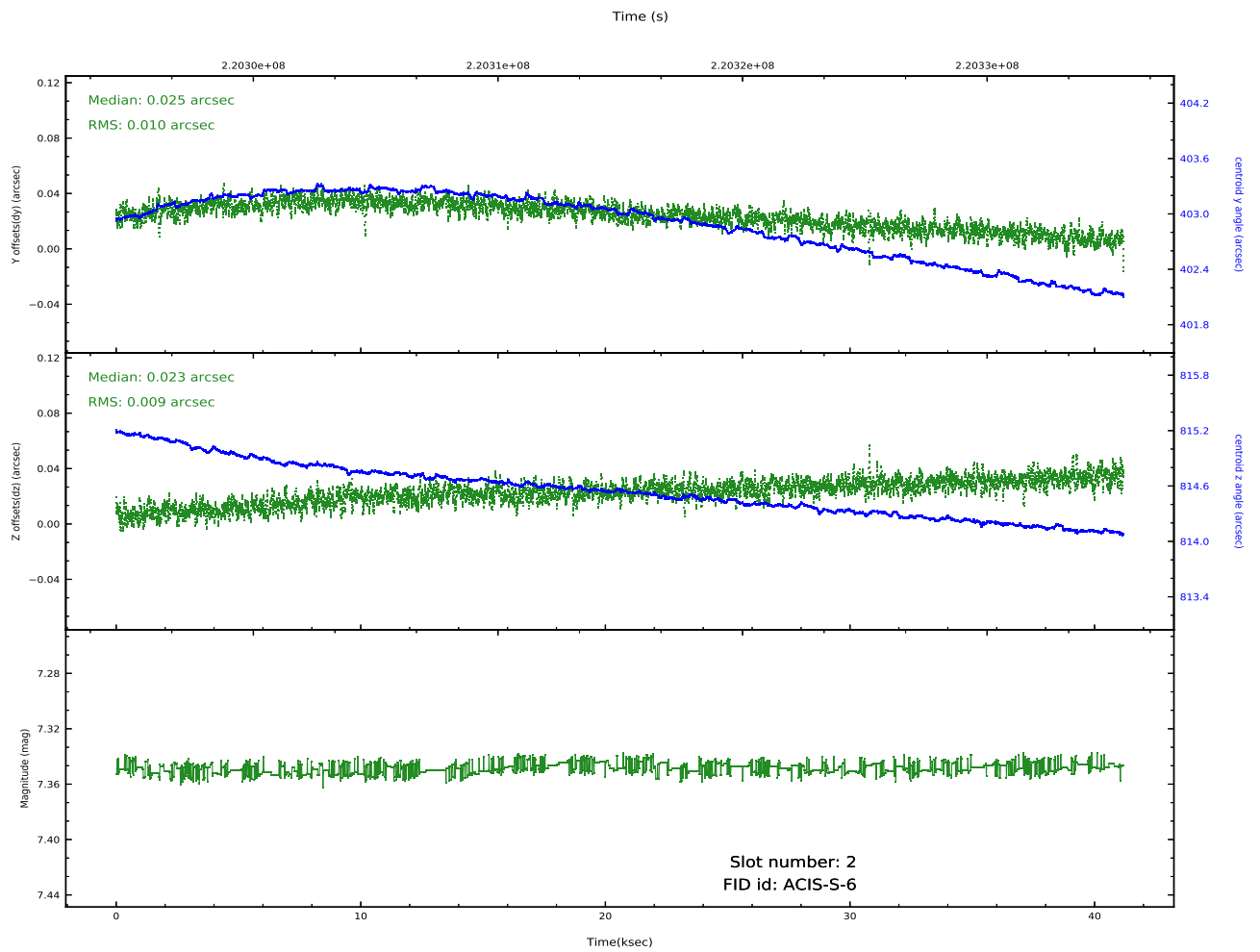
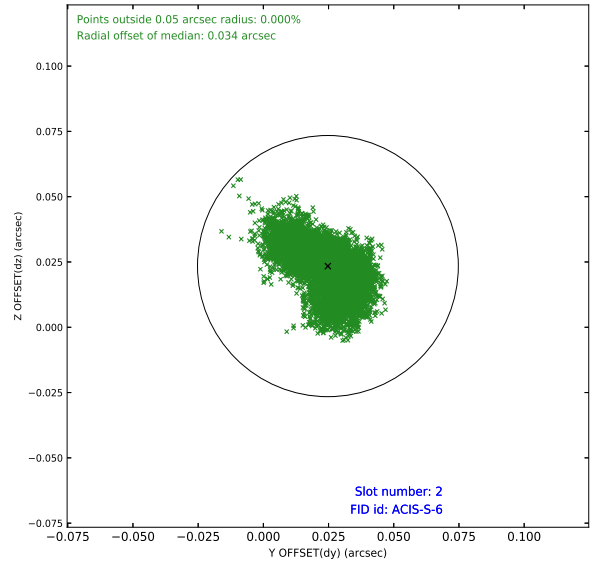
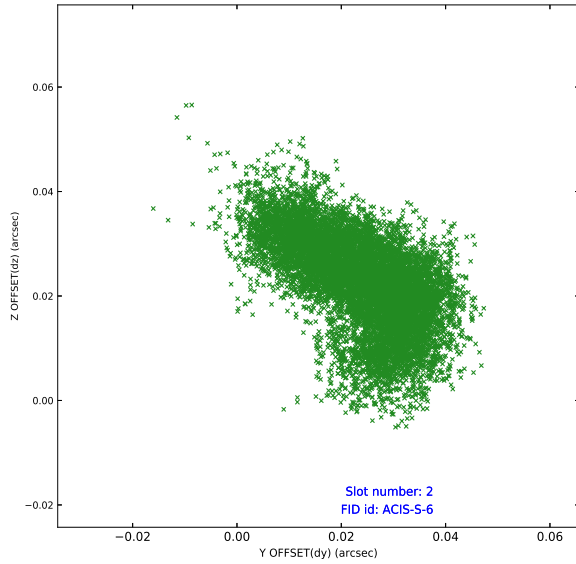
2.5.2 Slot 1



Time (s)



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2020.10.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	41.17759

A.2 Comments