

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 6115 - L2 Version 4
Chandra X-Ray Center

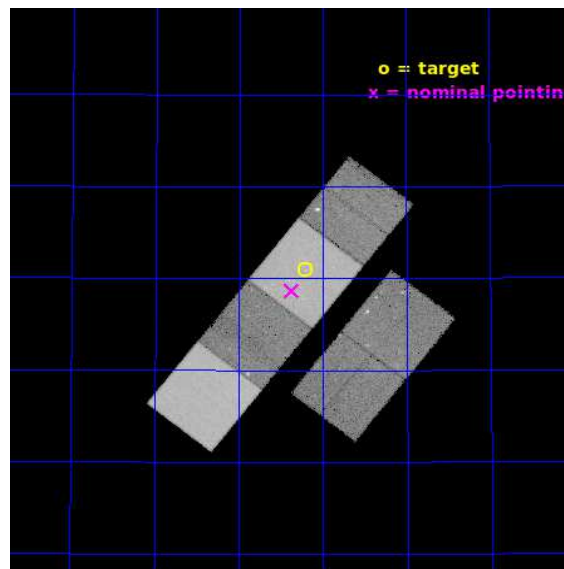
L2 Processing Date : Oct 1 2020

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1 Front

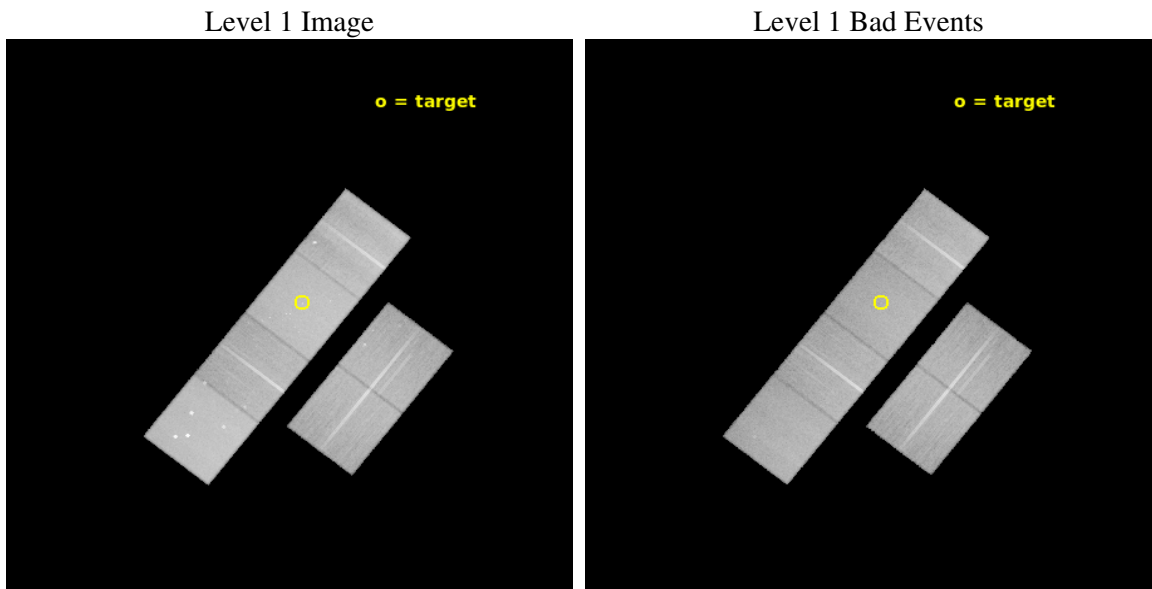
seq_num	600390	Sequence number
obs_id	6115	Observation id
title	An Ultra-Deep Study of M101	Proposal title
observer	Dr. K.D. Kuntz	Principal investigator
object	M101	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	210.80375	Observer's specified target RA [deg]
dec_targ	54.348778	Observer's specified target Dec [deg]
ra_nom	210.84246107927	Nominal RA [deg]
dec_nom	54.311425587112	Nominal Dec [deg]
roll_nom	308.11779158578	Nominal Roll [deg]
revision	4	Processing version of data
ontime	36216.929026932	Sum of GTIs [s]
livetime	35758.328464376	Livetime [s]
ontime2	36210.488255918	Sum of GTIs [s]
ontime3	36216.805906922	Sum of GTIs [s]
ontime5	36216.887986928	Sum of GTIs [s]
ontime6	36216.846946925	Sum of GTIs [s]
ontime7	36216.929026932	Sum of GTIs [s]
ontime8	36216.764866948	Sum of GTIs [s]
l2events	458042	Number of level 2 events



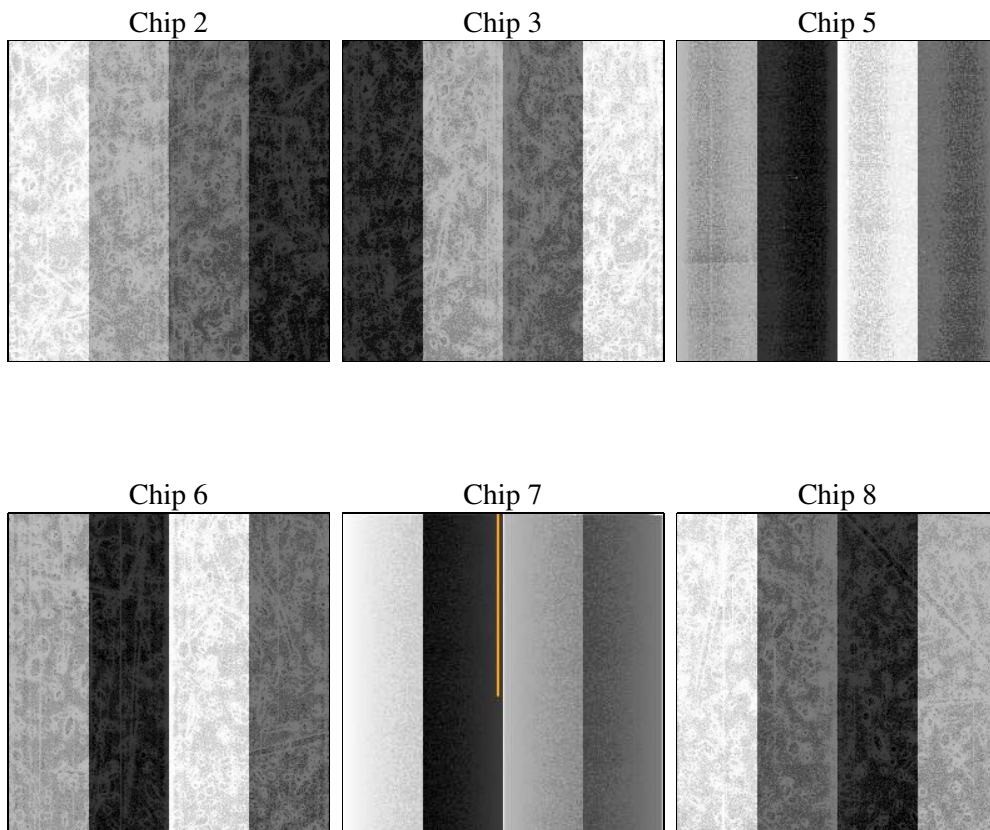
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	36258.425000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	36216.929026932	Sum of GTIs [s]
caldbver	4.9.2	 	ontime2	36210.488255918	Sum of GTIs [s]
date	2020-10-01T23:24:59	Date and time of file creation	ontime3	36216.805906922	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	36216.887986928	Sum of GTIs [s]
			ontime6	36216.846946925	Sum of GTIs [s]
			ontime7	36216.929026932	Sum of GTIs [s]
			ontime8	36216.764866948	Sum of GTIs [s]
			l1events	1987931	Number of level 1 events

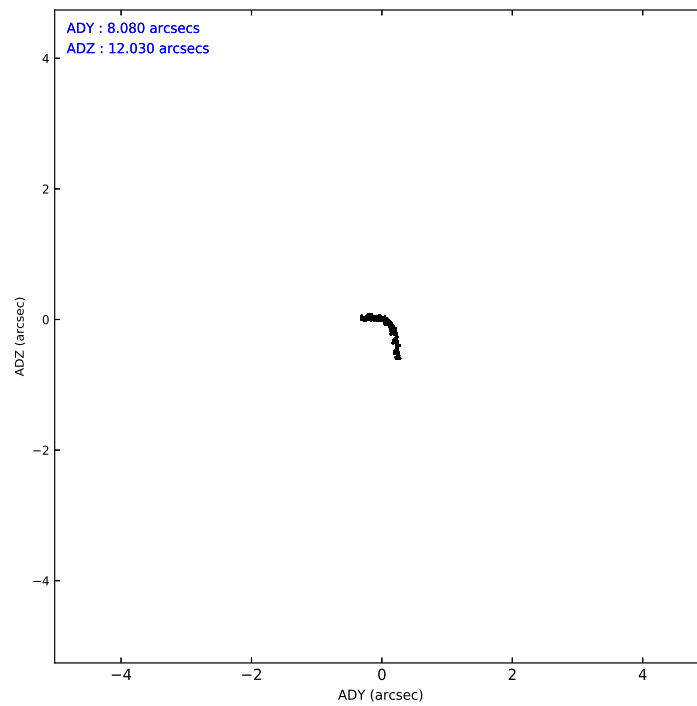
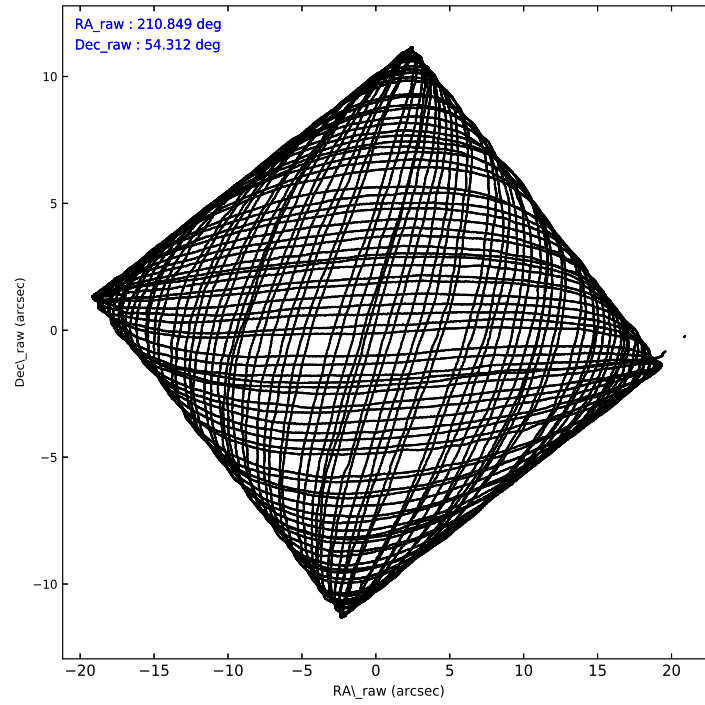
2.1.4 Events

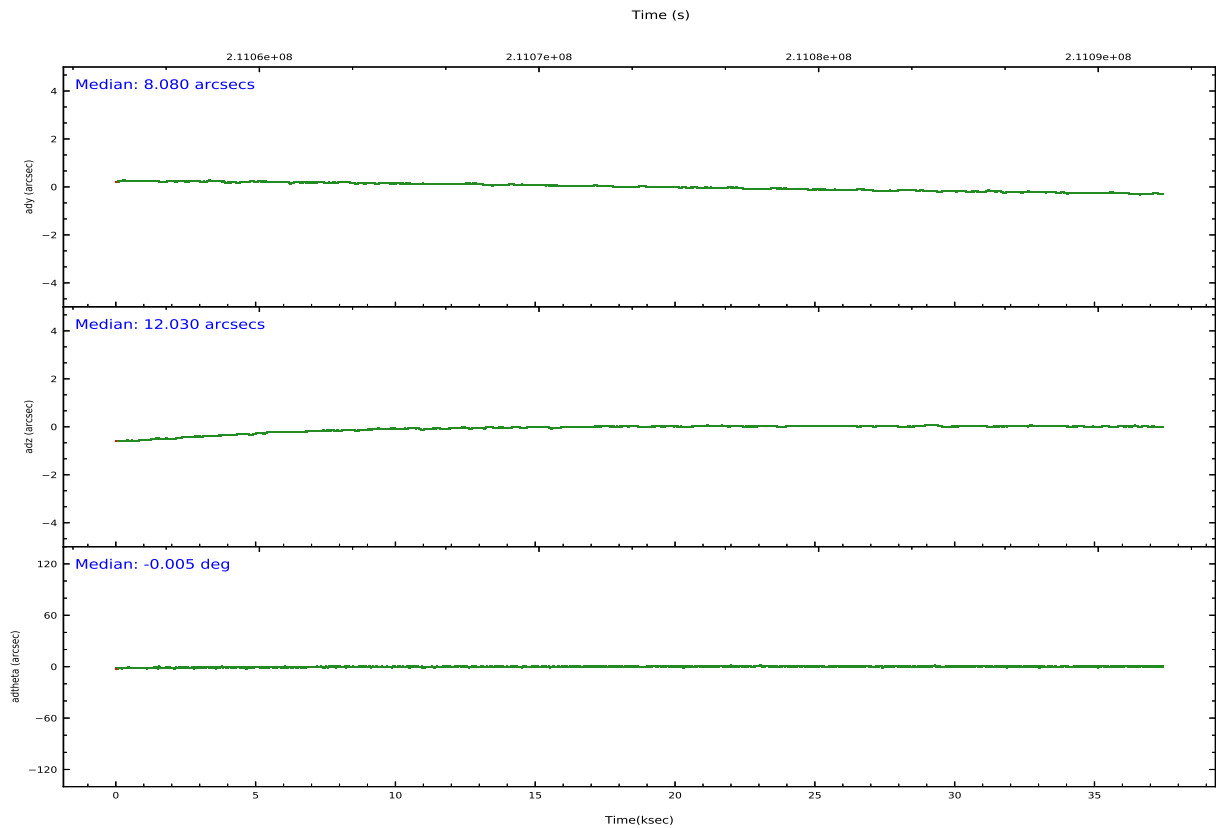
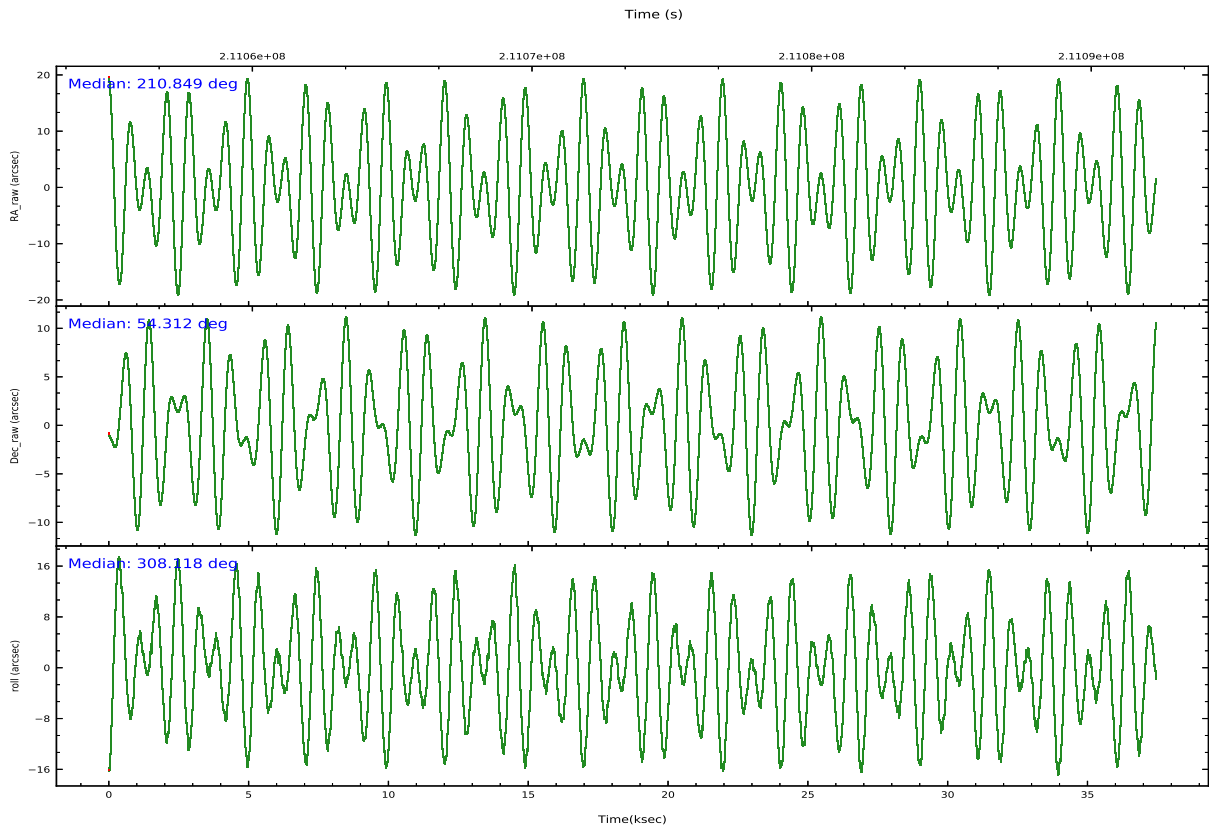
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	285116	268890	420477	280182	381297	351969	grade 0 events	15103	15161	22991	14074	16747	25093
rejected events	251603	235539	224327	245964	218340	275833		5%	5%	5%	5%	4%	7%
rejected %	88%	87%	53%	87%	57%	78%	grade 1 events	193	156	523	144	355	223
								0%	0%	0%	0%	0%	0%
							grade 2 events	6715	6279	58582	7005	32879	16581
								2%	2%	13%	2%	8%	4%
							grade 3 events	3095	3197	7398	3277	14563	7849
								1%	1%	1%	1%	3%	2%
							grade 4 events	3142	3126	7115	3234	14612	7452
								1%	1%	1%	1%	3%	2%
							grade 5 events	10978	12221	29974	12729	35516	16506
								3%	4%	7%	4%	9%	4%
							grade 6 events	5463	5592	100083	6630	84172	19185
								1%	2%	23%	2%	22%	5%
							grade 7 events	240427	223158	193811	233089	182453	259080
								84%	82%	46%	83%	47%	73%

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	210.806153	210.84246107927	Subarray requested	NONE	NONE
[deg] Pointing Dec	54.321537	54.311425587112	Alternating exposures requested	N	N
[deg] Pointing Roll	307.998039	308.11779158578	[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)	211056062.184000	211054596.49445			
Observation start date	2004-09-08T18:39:58	2004-09-08T18:16:36			
[s] Observation end time (MET)	211092321.184000	211092549.68364			
Observation end date	2004-09-09T04:44:17	2004-09-09T04:49:09			
Read mode	TIMED	TIMED			

2.3 Aspect





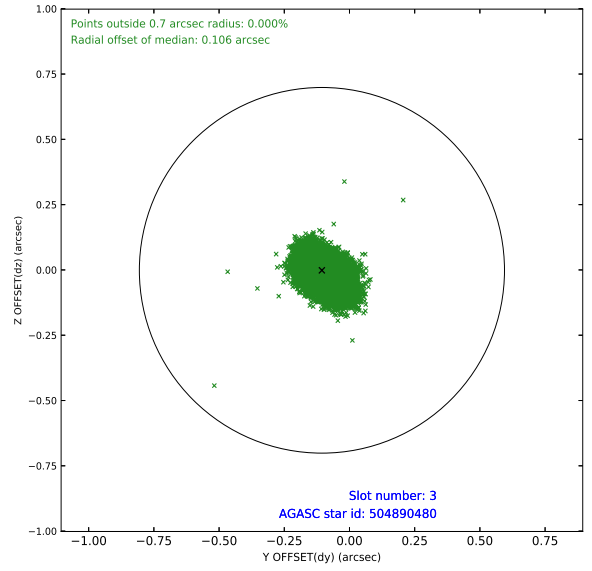
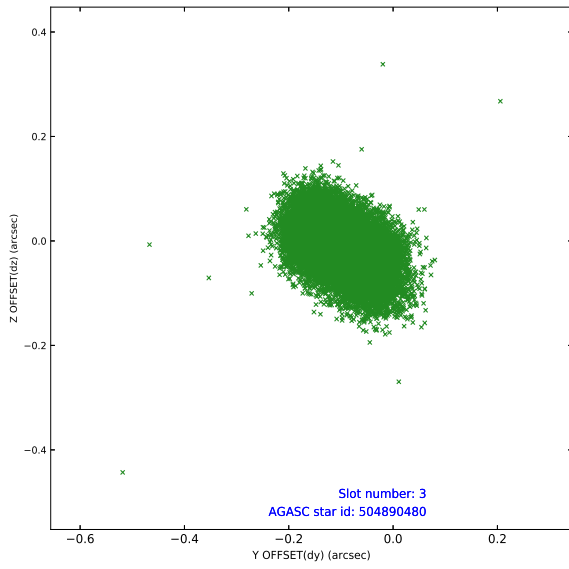
Slot Statistics

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	9134	1.000	-0.041	-0.054	0.008	0.014	0.000000	0.000000	-760.87	-1733
1	FID		ACIS-S-4	7.20	9136	1.000	0.133	0.034	0.010	0.024	0.000000	0.000000	2152.54	175
2	FID		ACIS-S-5	7.23	9136	1.000	-0.125	0.029	0.009	0.016	0.000000	0.000000	-1813.79	168
3	GUIDE	used	504890480	8.17	18269	1.000	-0.106	-0.001	0.077	0.125	210.132463	53.768436	681.77	-2351
4	GUIDE	used	504891480	8.07	18271	1.000	-0.023	-0.035	0.054	0.089	210.708012	54.666096	-1103.21	602
5	GUIDE	used	504894408	9.28	18261	1.000	0.057	0.136	0.092	0.150	211.942794	54.047749	2240.50	1299
6	GUIDE	used	504894856	8.98	18259	1.000	0.004	-0.099	0.083	0.136	209.819510	54.132689	-756.26	-2049
7	GUIDE	used	505292416	9.29	18260	1.000	0.068	-0.001	0.092	0.149	210.920759	55.040479	-1894.58	1779

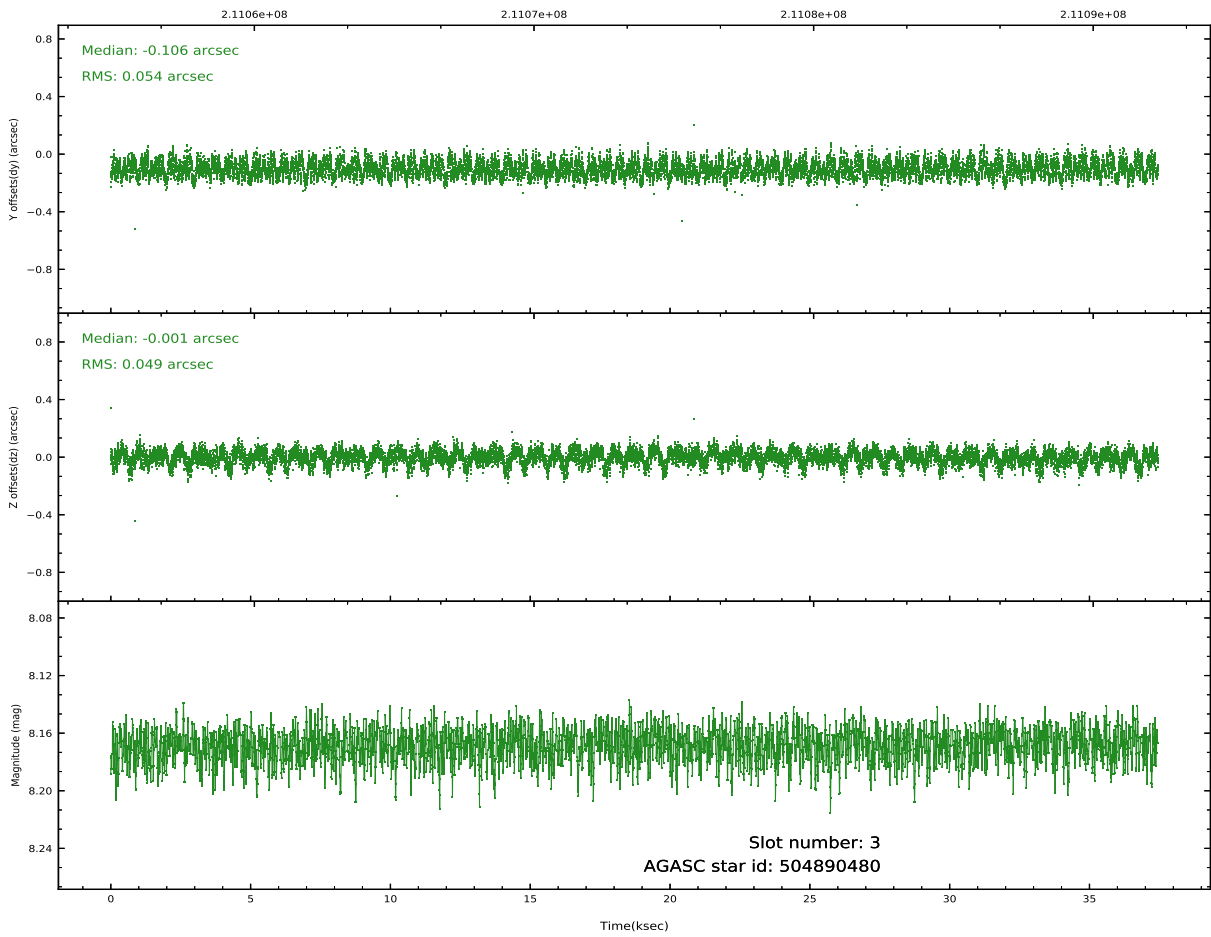
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2.4 Star Slots

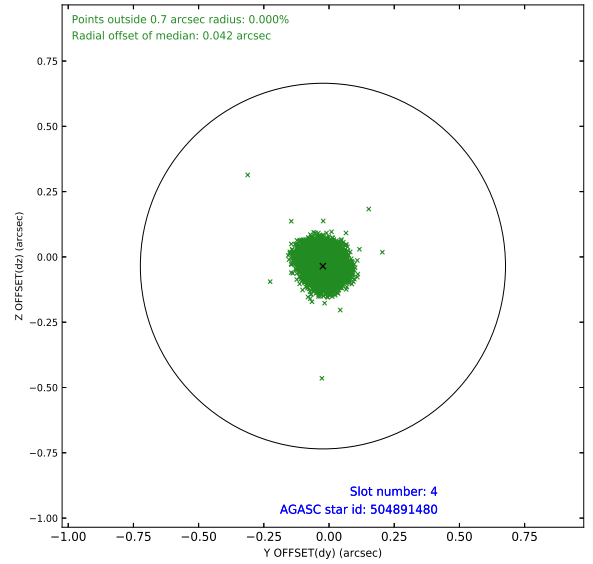
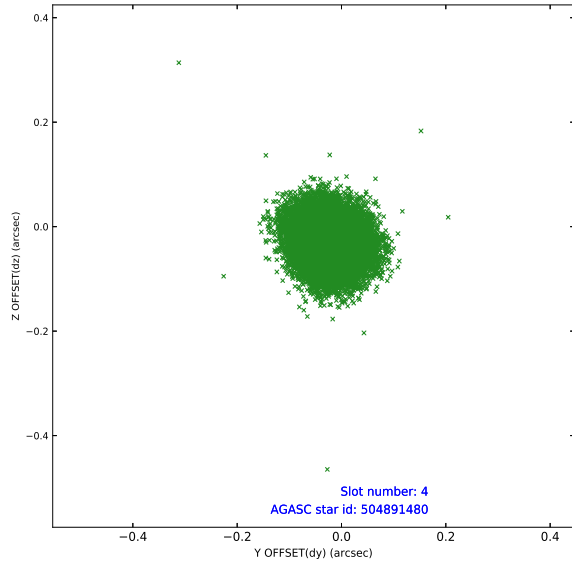
2.4.1 Slot 3



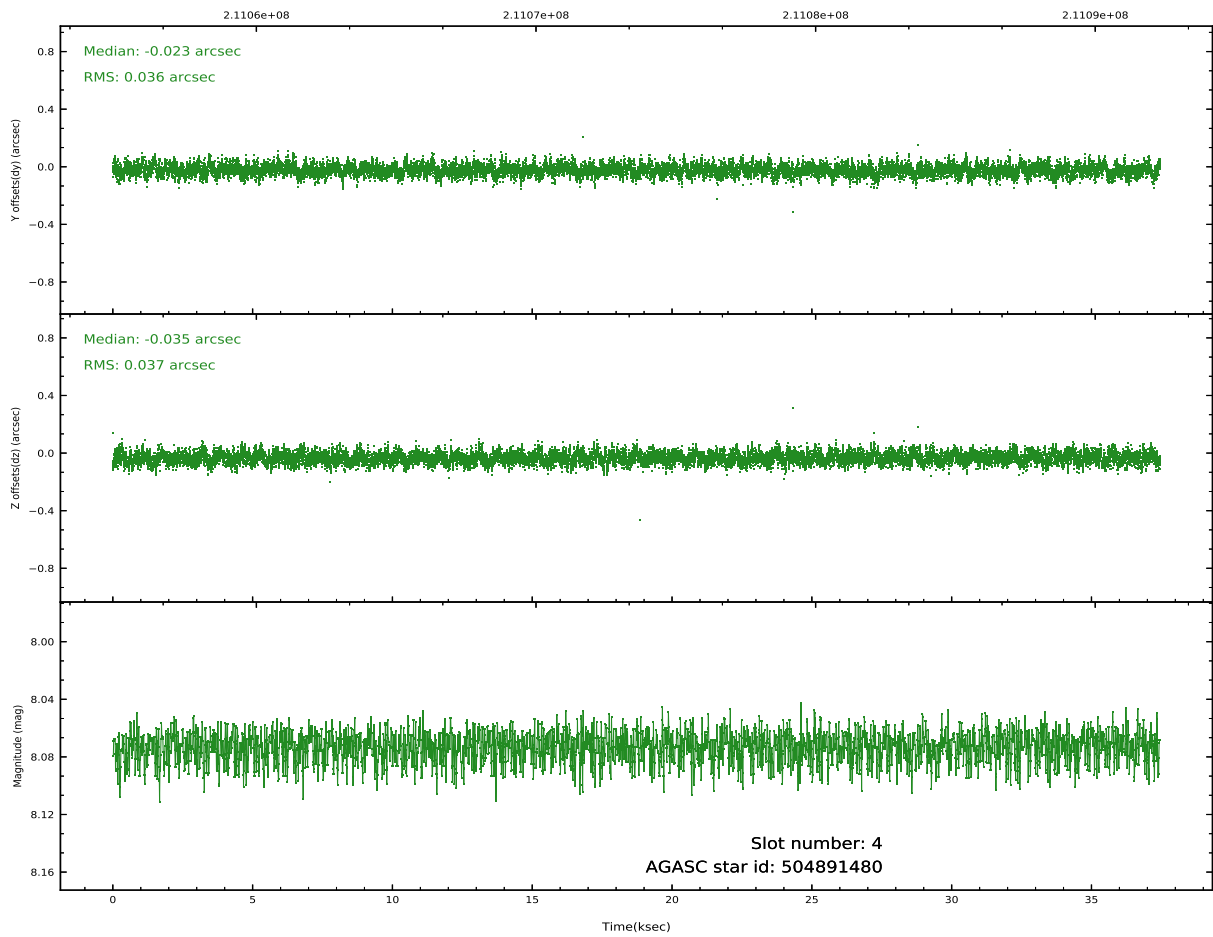
Time (s)



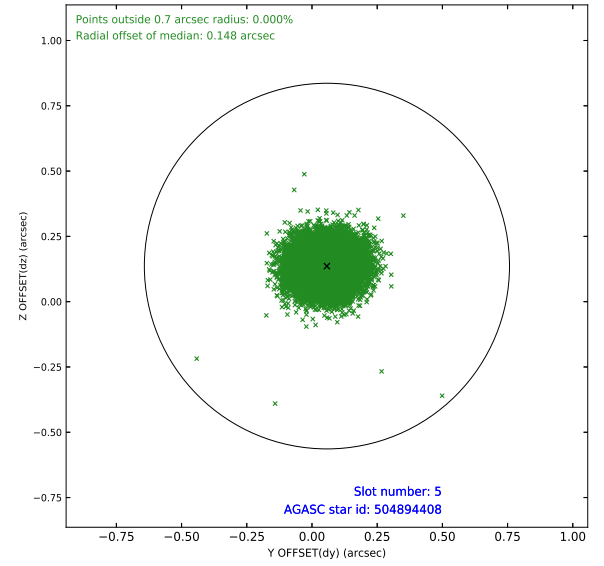
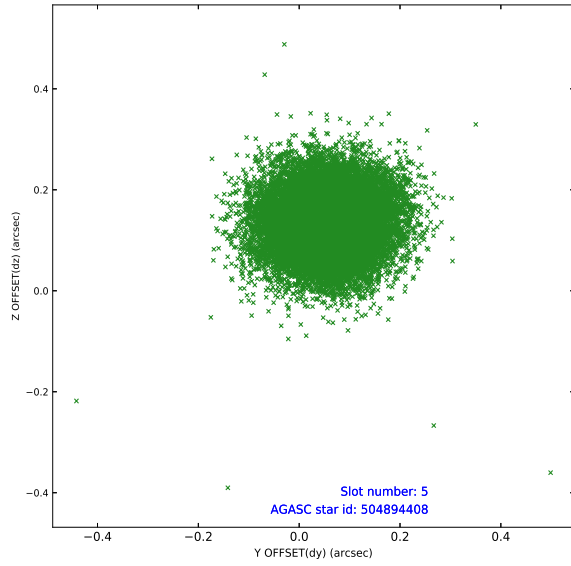
2.4.2 Slot 4



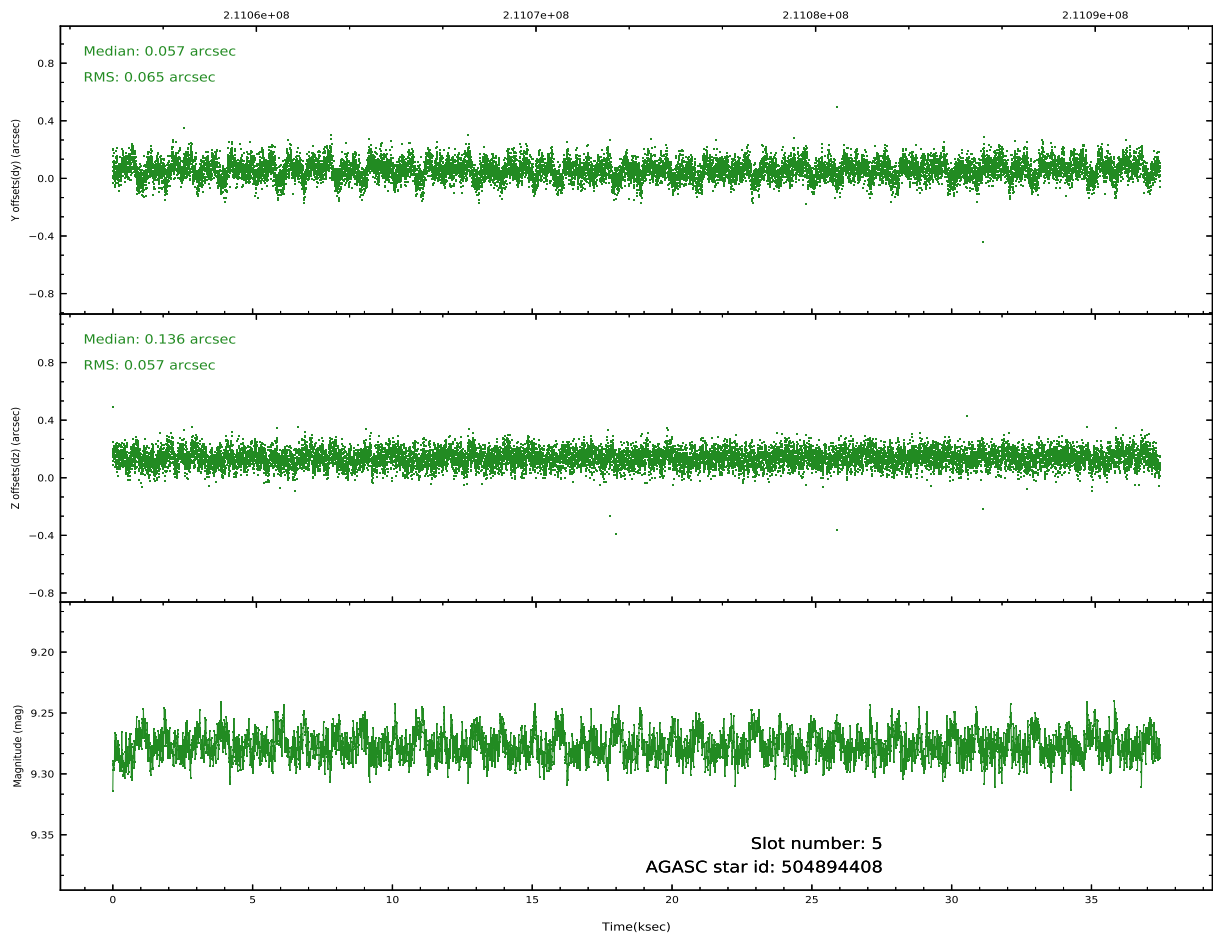
Time (s)



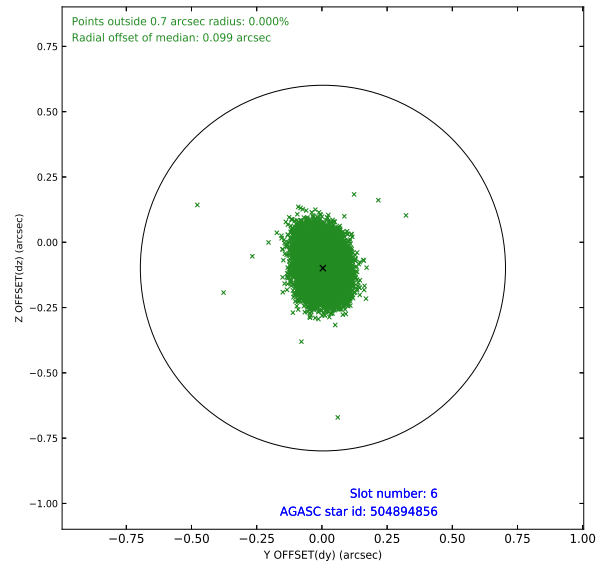
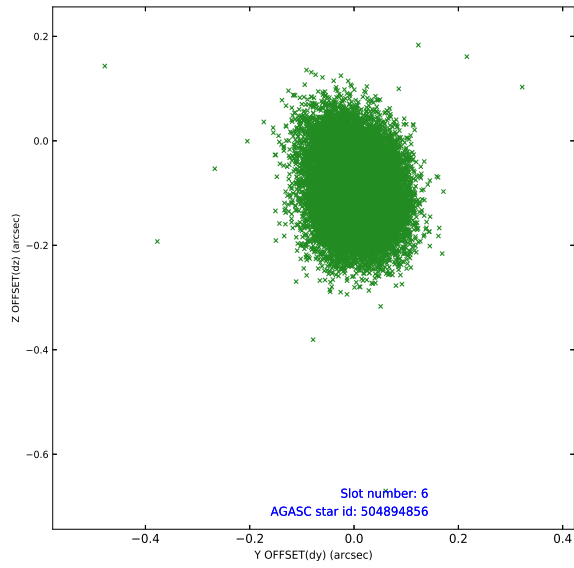
2.4.3 Slot 5



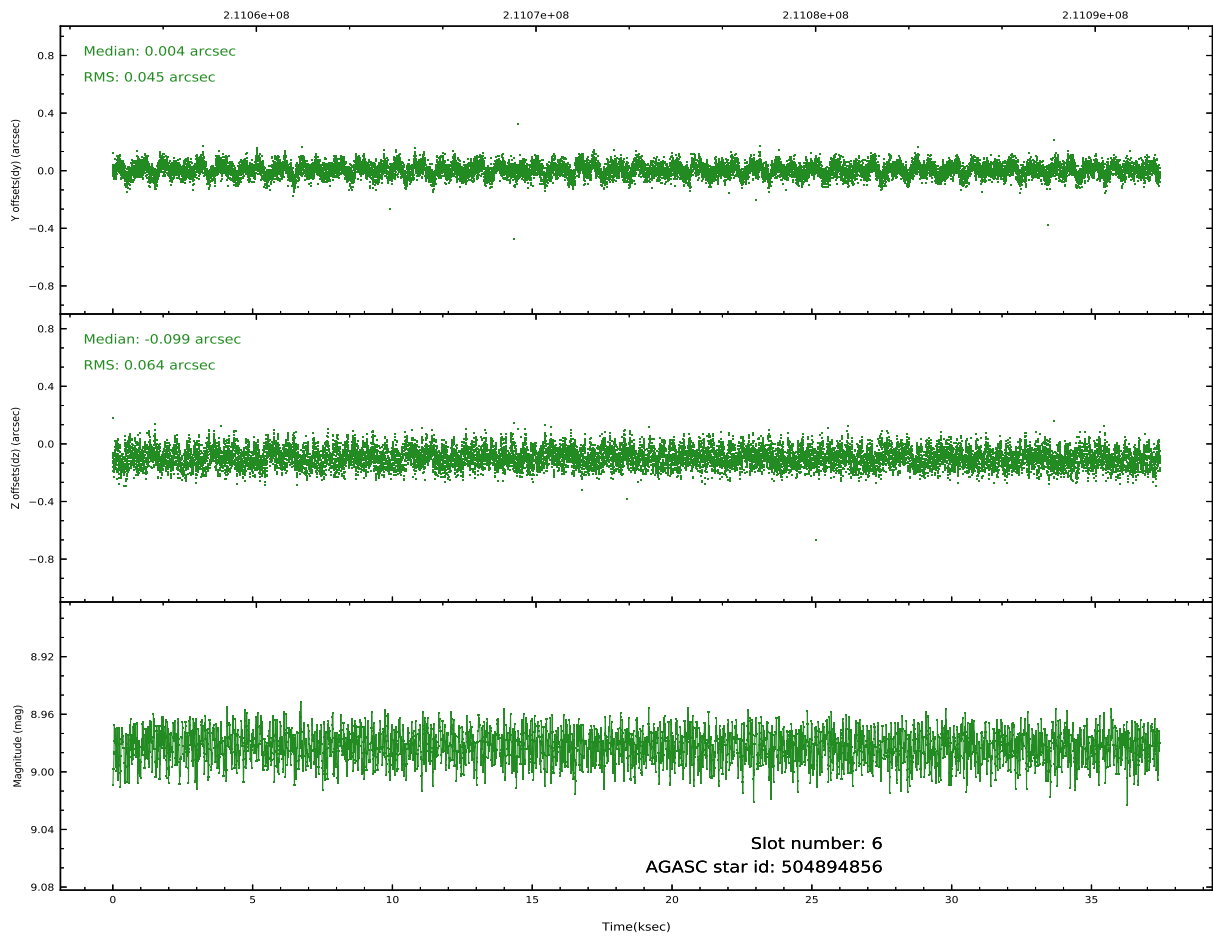
Time (s)



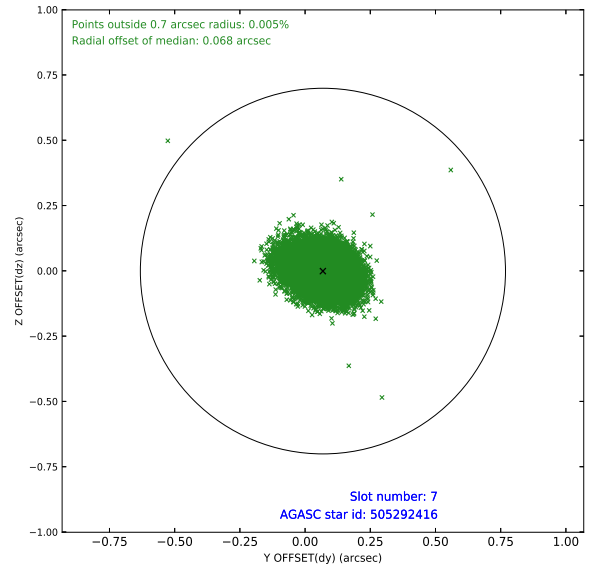
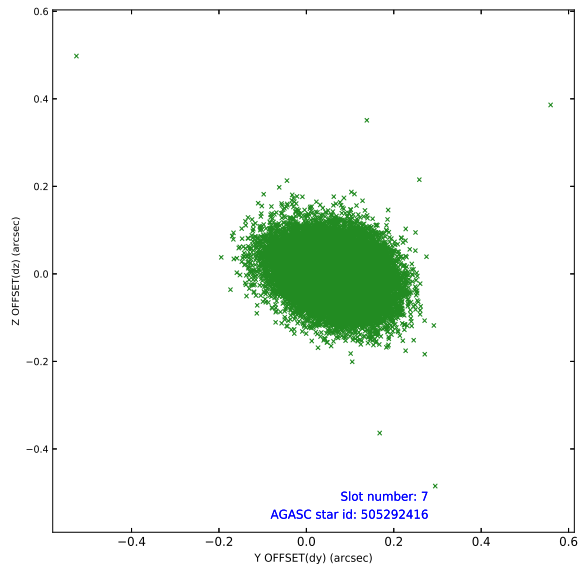
2.4.4 Slot 6



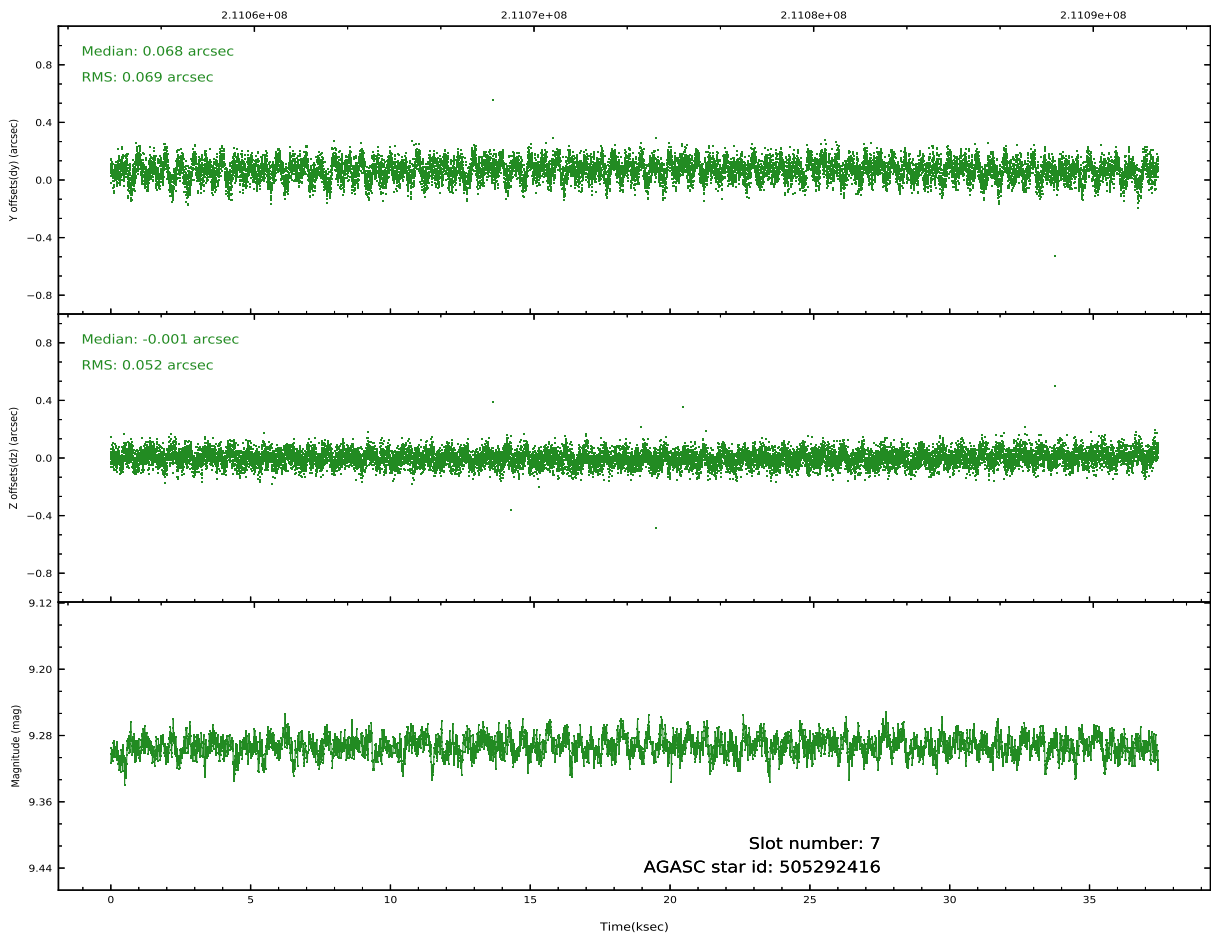
Time (s)



2.4.5 Slot 7

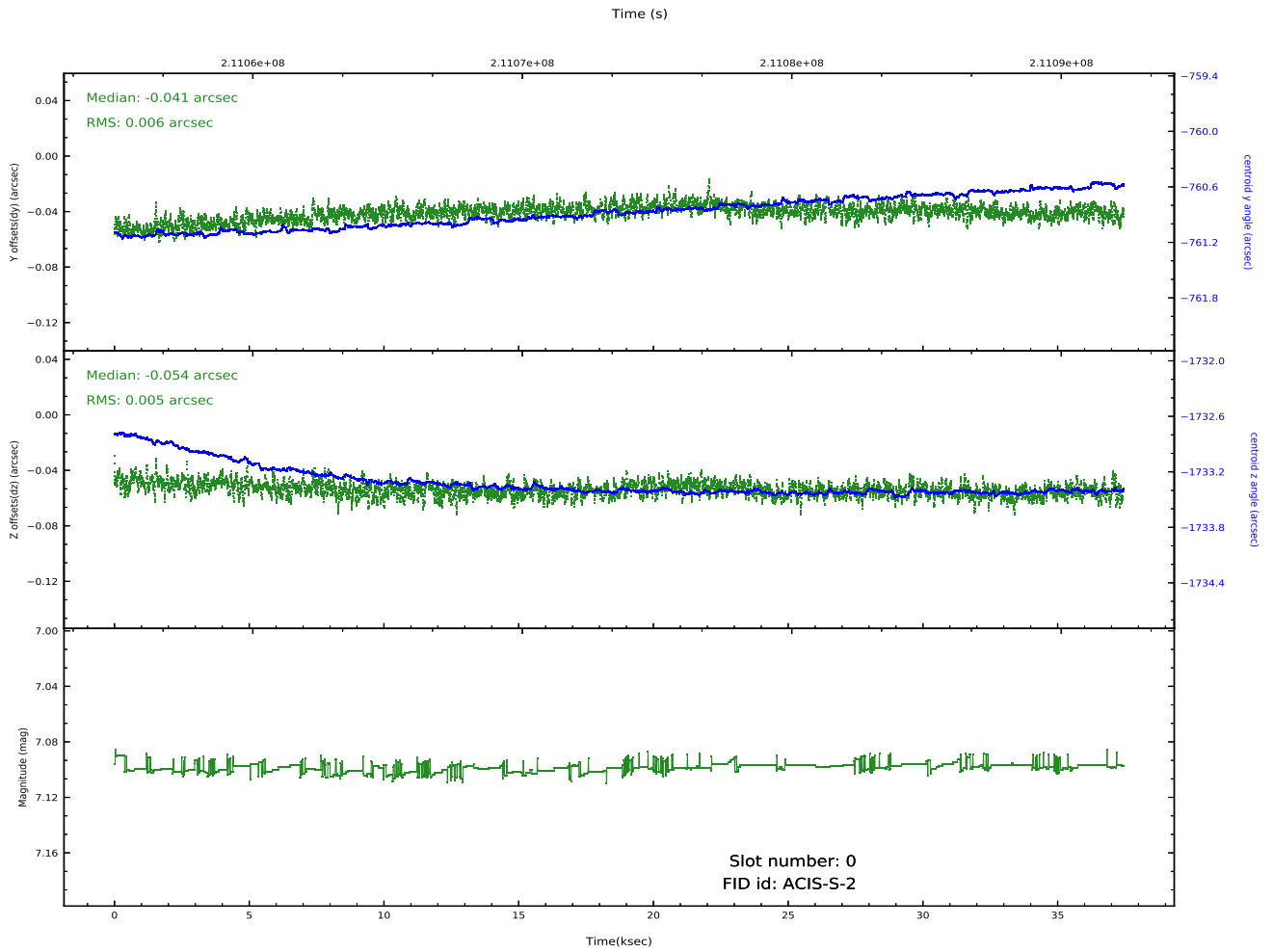
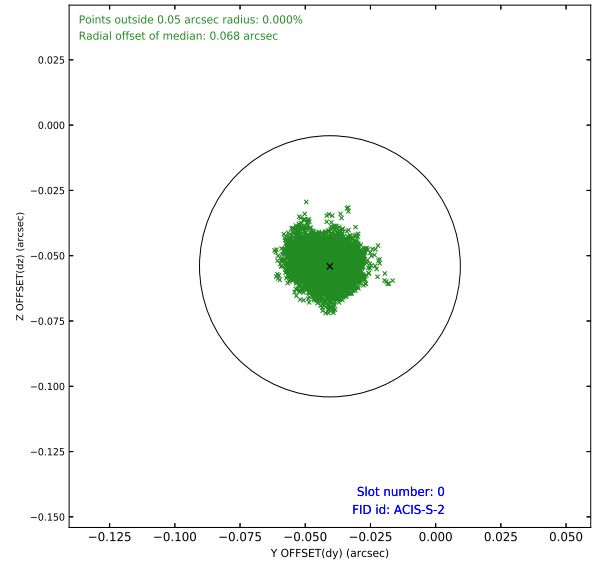
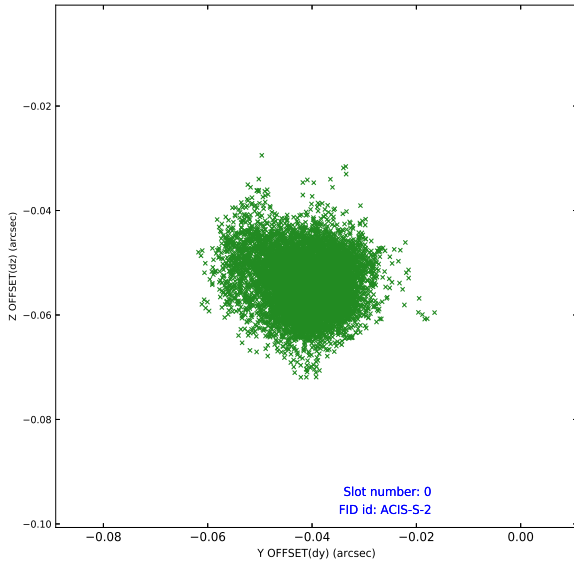


Time (s)

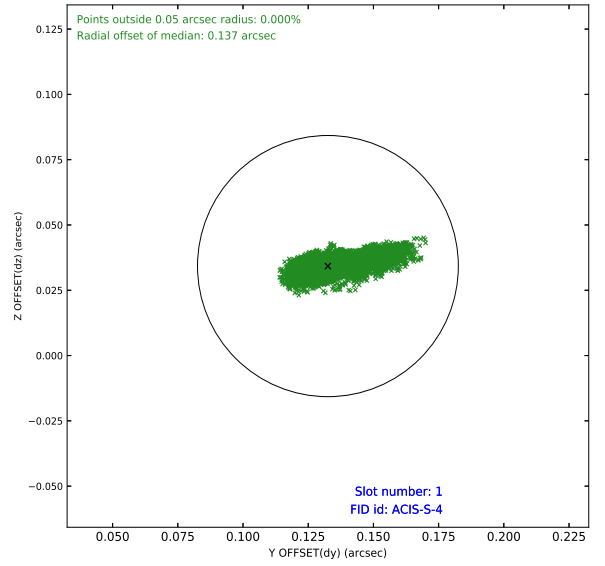
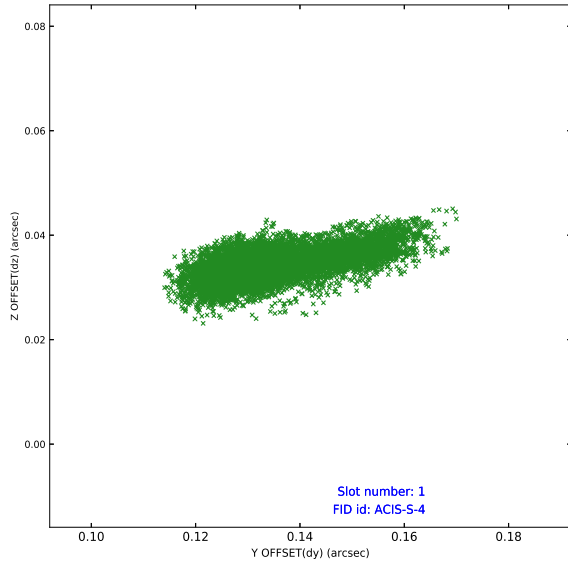


2.5 FID Slots

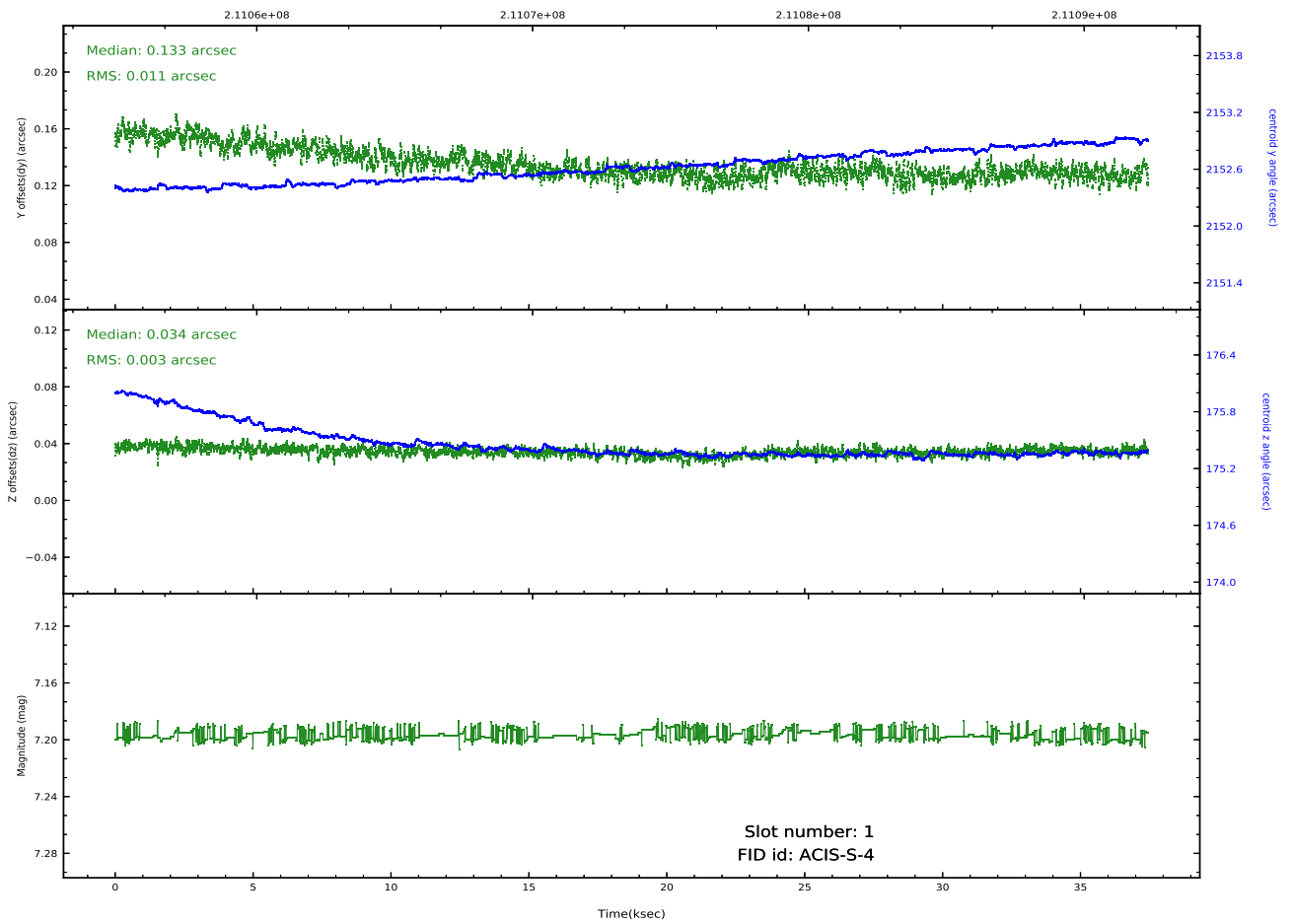
2.5.1 Slot 0



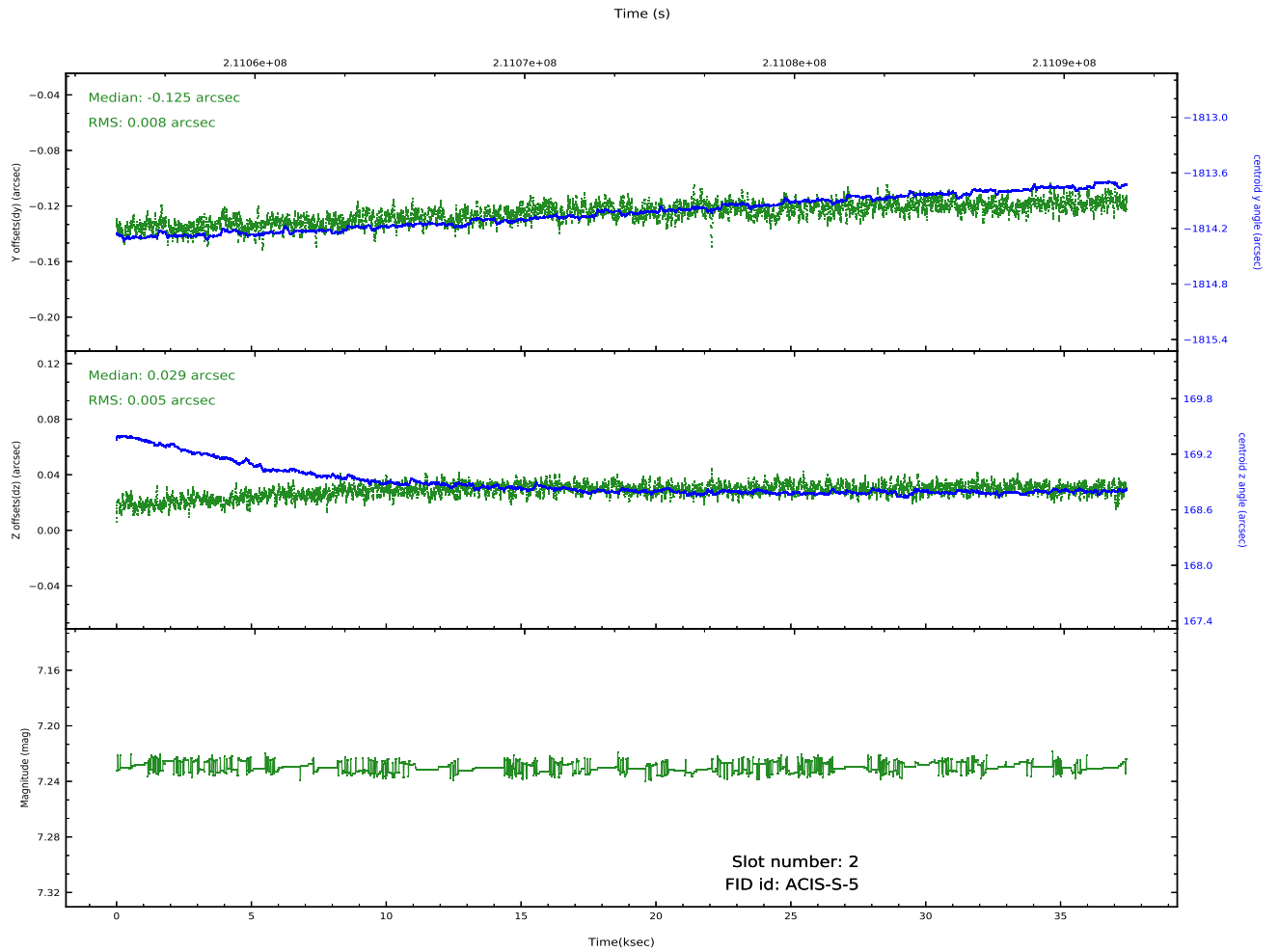
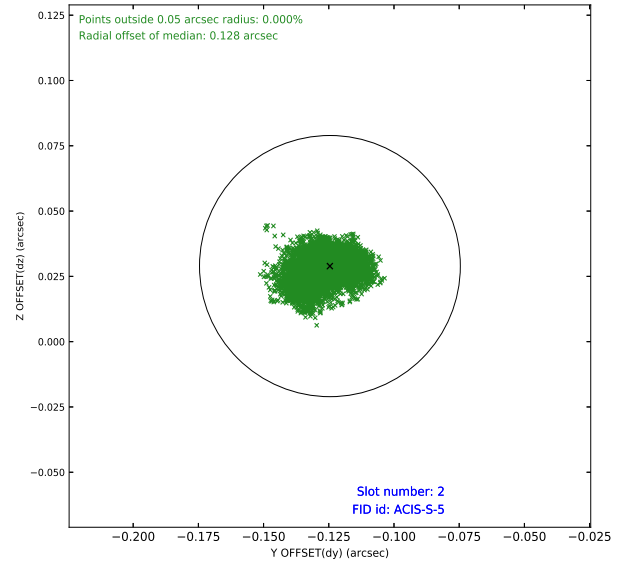
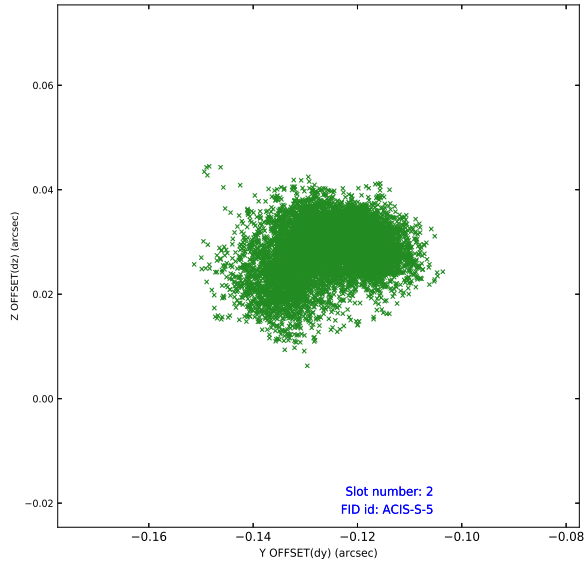
2.5.2 Slot 1



Time (s)



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2020.10.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	36.204

A.2 Comments