

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5338 - L2 Version 4
Chandra X-Ray Center

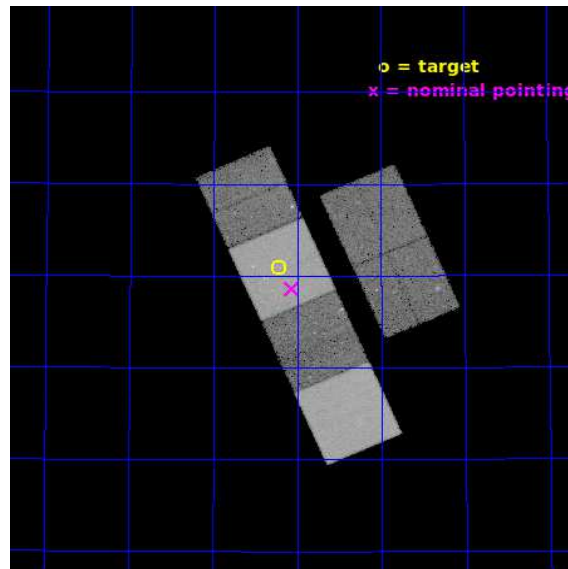
L2 Processing Date : Sep 27 2020

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1 Front

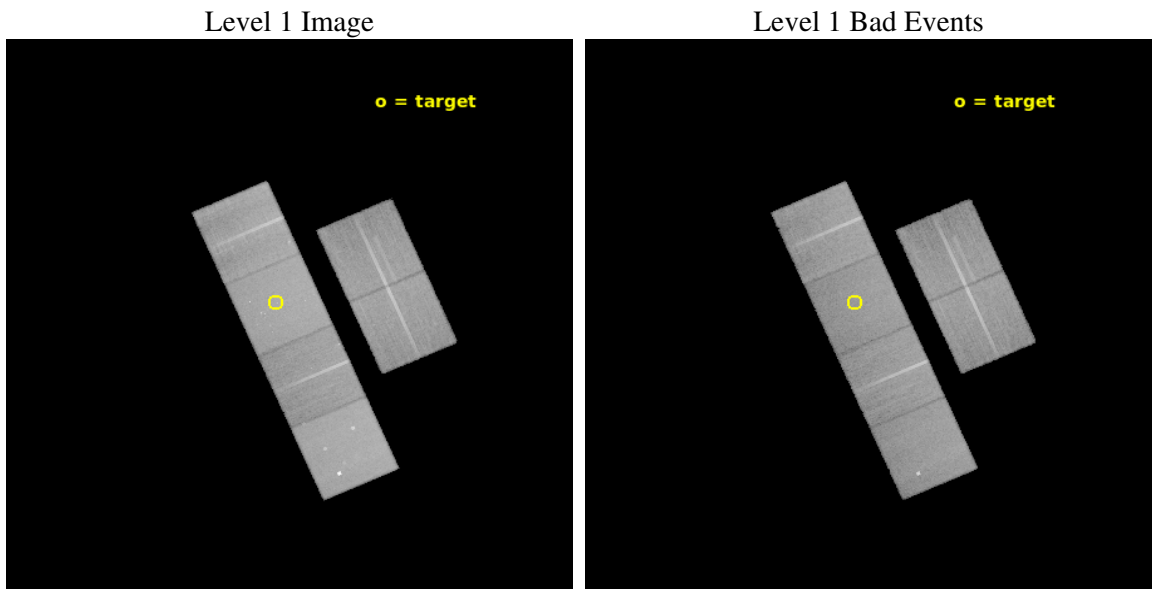
seq_num	600389	Sequence number
obs_id	5338	Observation id
title	An Ultra-Deep Study of M101	Proposal title
observer	Dr. K.D. Kuntz	Principal investigator
object	M101	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	210.80375	Observer's specified target RA [deg]
dec_targ	54.348778	Observer's specified target Dec [deg]
ra_nom	210.76617061807	Nominal RA [deg]
dec_nom	54.310235827978	Nominal Dec [deg]
roll_nom	246.18428152819	Nominal Roll [deg]
revision	4	Processing version of data
ontime	28934.399892211	Sum of GTIs [s]
livetime	28568.015098572	Livetime [s]
ontime2	28931.158902019	Sum of GTIs [s]
ontime3	28934.399892211	Sum of GTIs [s]
ontime5	28934.399892211	Sum of GTIs [s]
ontime6	28934.399892211	Sum of GTIs [s]
ontime7	28934.399892211	Sum of GTIs [s]
ontime8	28931.158892006	Sum of GTIs [s]
l2events	353457	Number of level 2 events



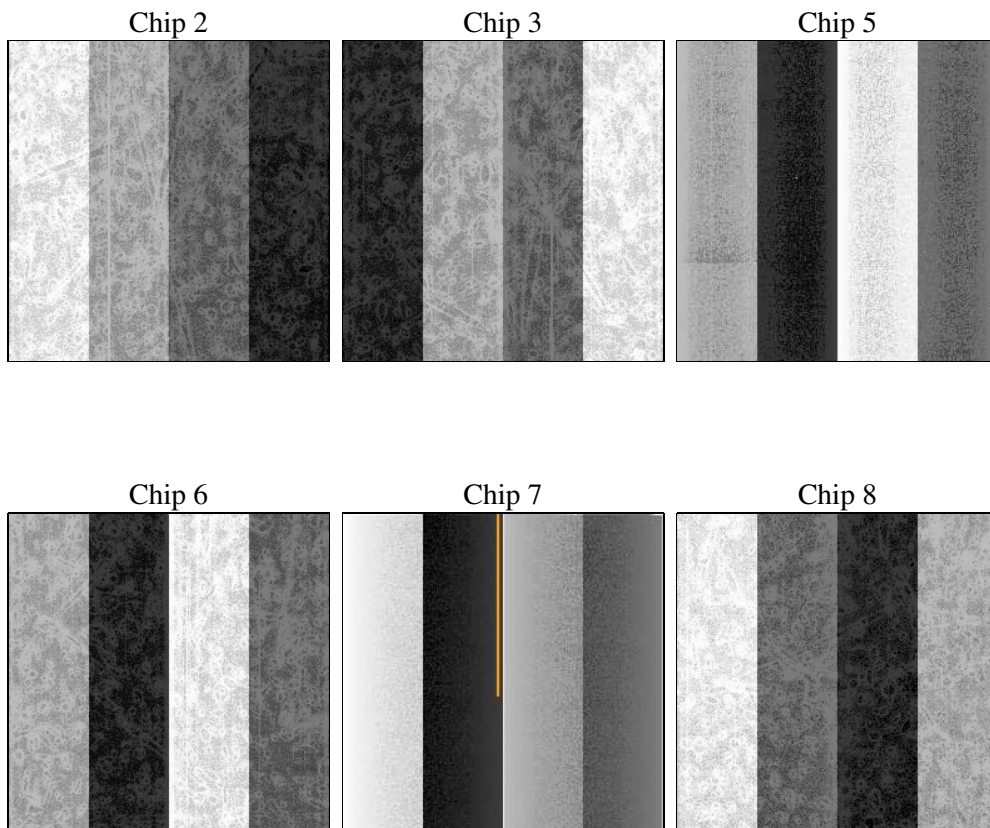
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	28760.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	28934.399892211	Sum of GTIs [s]
caldsver	4.9.2	 	ontime2	28931.158902019	Sum of GTIs [s]
date	2020-09-27T03:36:07	Date and time of file creation	ontime3	28934.399892211	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	28934.399892211	Sum of GTIs [s]
			ontime6	28934.399892211	Sum of GTIs [s]
			ontime7	28934.399892211	Sum of GTIs [s]
			ontime8	28931.158892006	Sum of GTIs [s]
			l1events	1561663	Number of level 1 events

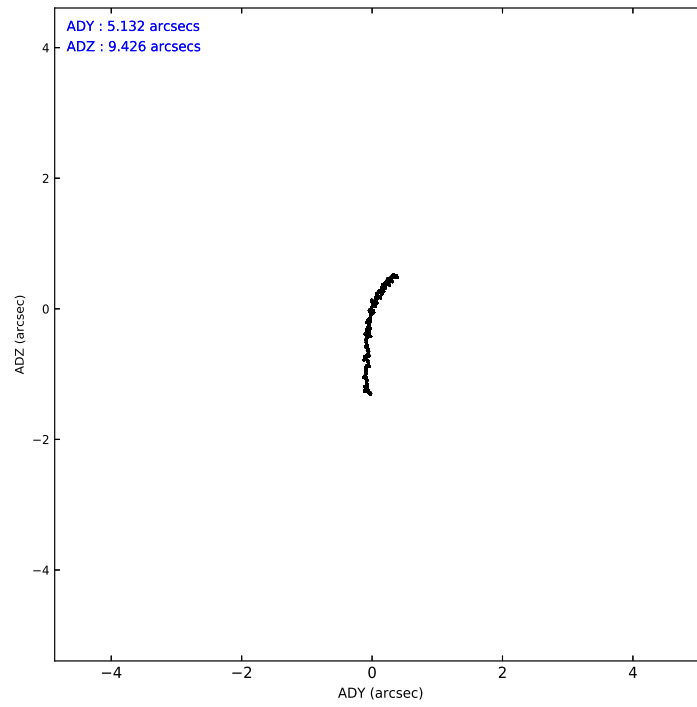
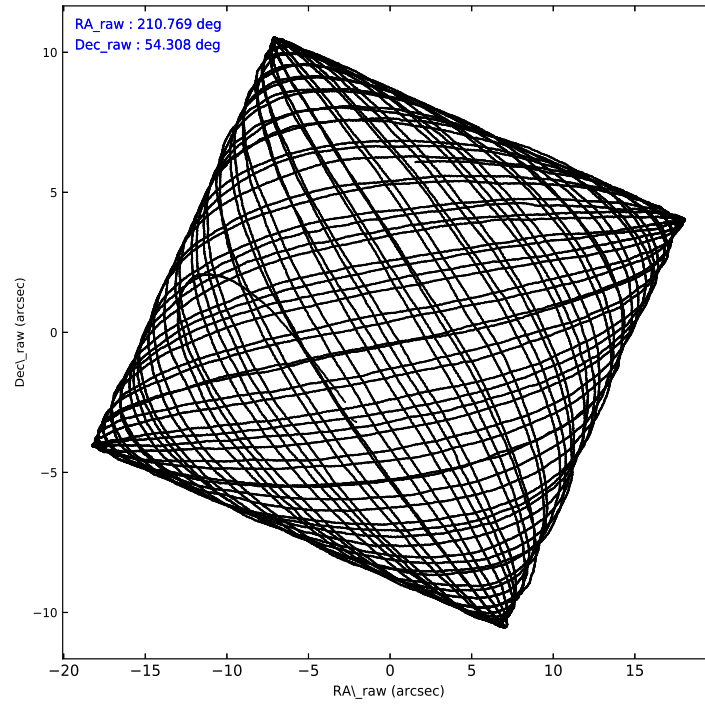
2.1.4 Events

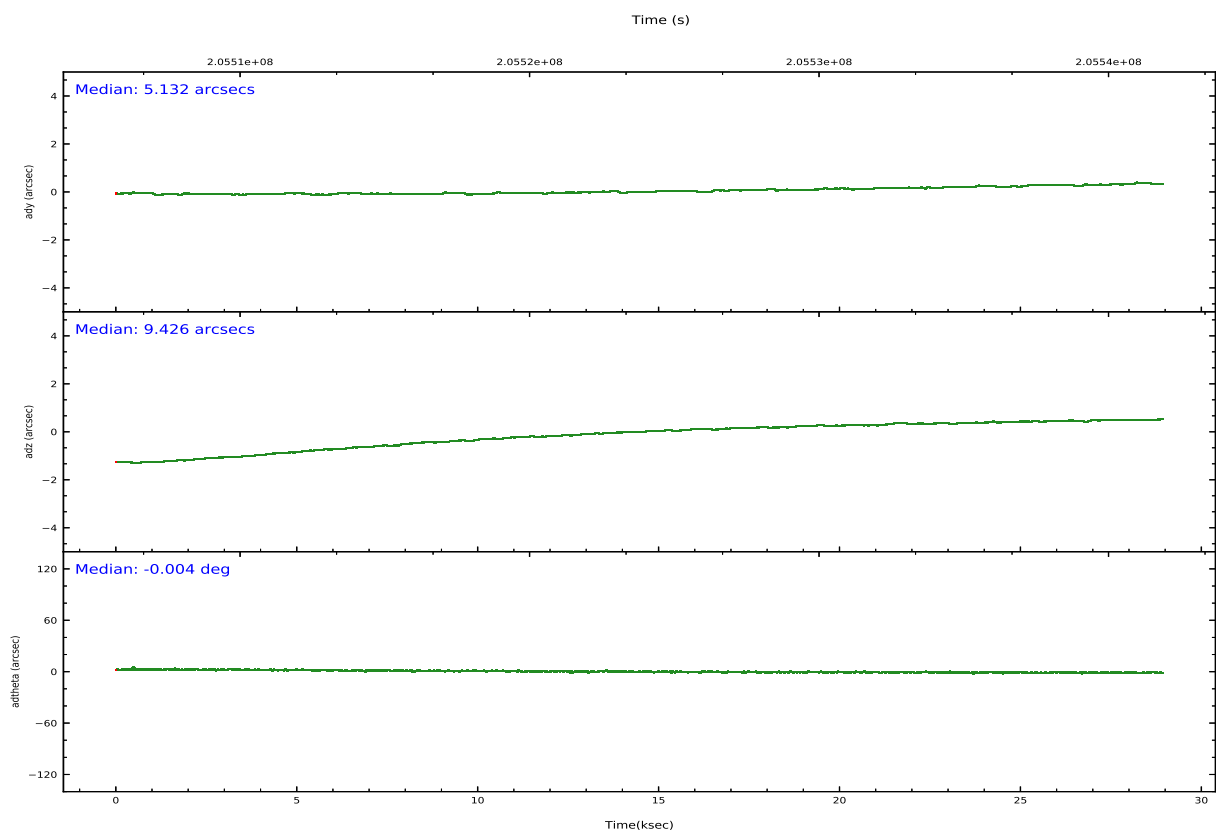
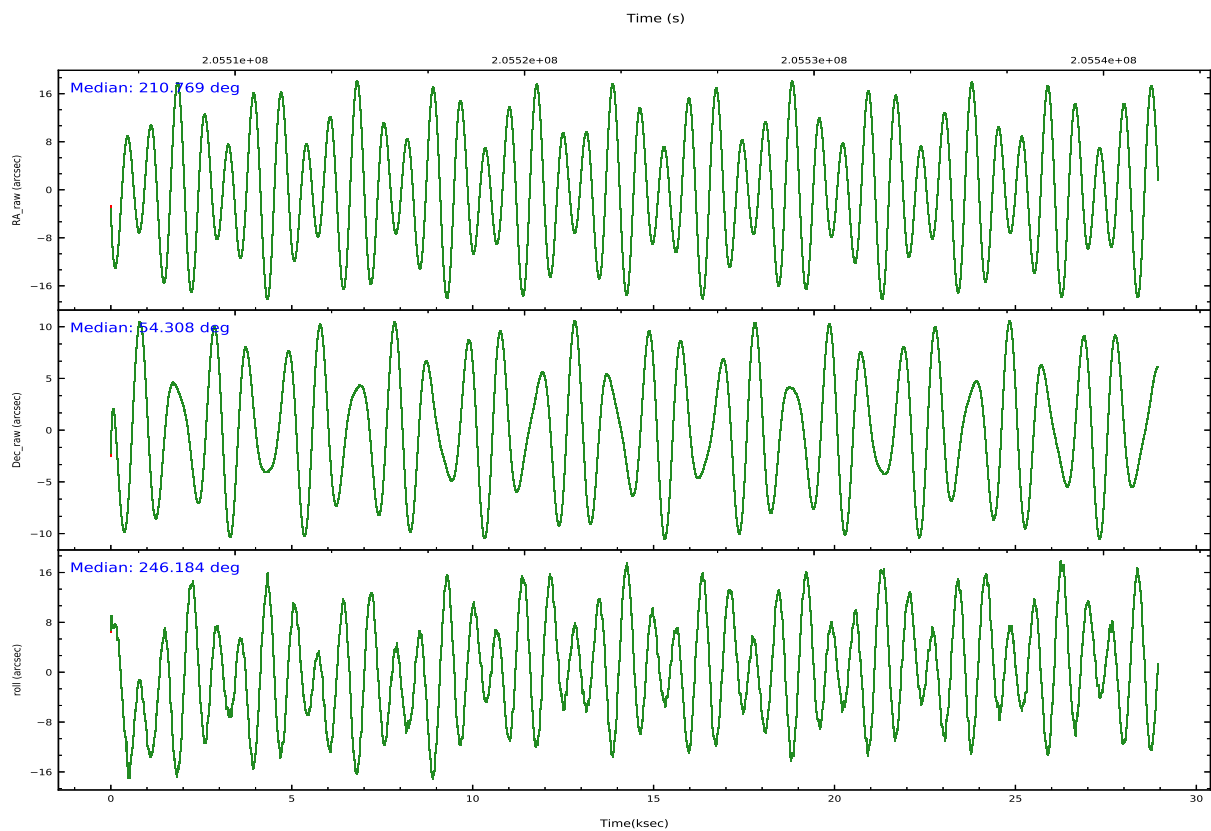
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	224130	211800	329707	221874	298616	275536	grade 0 events	11871	10945	15568	10885	13037	18500
rejected events	197788	186924	179040	195432	172288	216033		5%	5%	4%	4%	4%	6%
rejected %	88%	88%	54%	88%	57%	78%	grade 1 events	138	134	2637	96	285	196
								0%	0%	0%	0%	0%	0%
							grade 2 events	5368	4770	45793	5398	24837	13148
								2%	2%	13%	2%	8%	4%
							grade 3 events	2527	2451	5786	2556	11098	6197
								1%	1%	1%	1%	3%	2%
							grade 4 events	2387	2416	5464	2403	11275	5876
								1%	1%	1%	1%	3%	2%
							grade 5 events	8727	9544	23600	10142	28065	13036
								3%	4%	7%	4%	9%	4%
							grade 6 events	4198	4306	78099	5207	66109	15792
								1%	2%	23%	2%	22%	5%
							grade 7 events	188914	177234	152760	185187	143910	202791
								84%	83%	46%	83%	48%	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	210.763621	210.76617061807	Subarray requested	NONE	NONE
[deg] Pointing Dec	54.334730	54.310235827978	Alternating exposures requested	N	N
[deg] Pointing Roll	246.032598	246.18428152819	[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	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	205508748.184000	205507676.52274			
Observation start date	2004-07-06T13:44:44	2004-07-06T13:27:56			
[s] Observation end time (MET)	205537508.184000	205538339.3991			
Observation end date	2004-07-06T21:44:04	2004-07-06T21:58:59			
Read mode	TIMED	TIMED			

2.3 Aspect



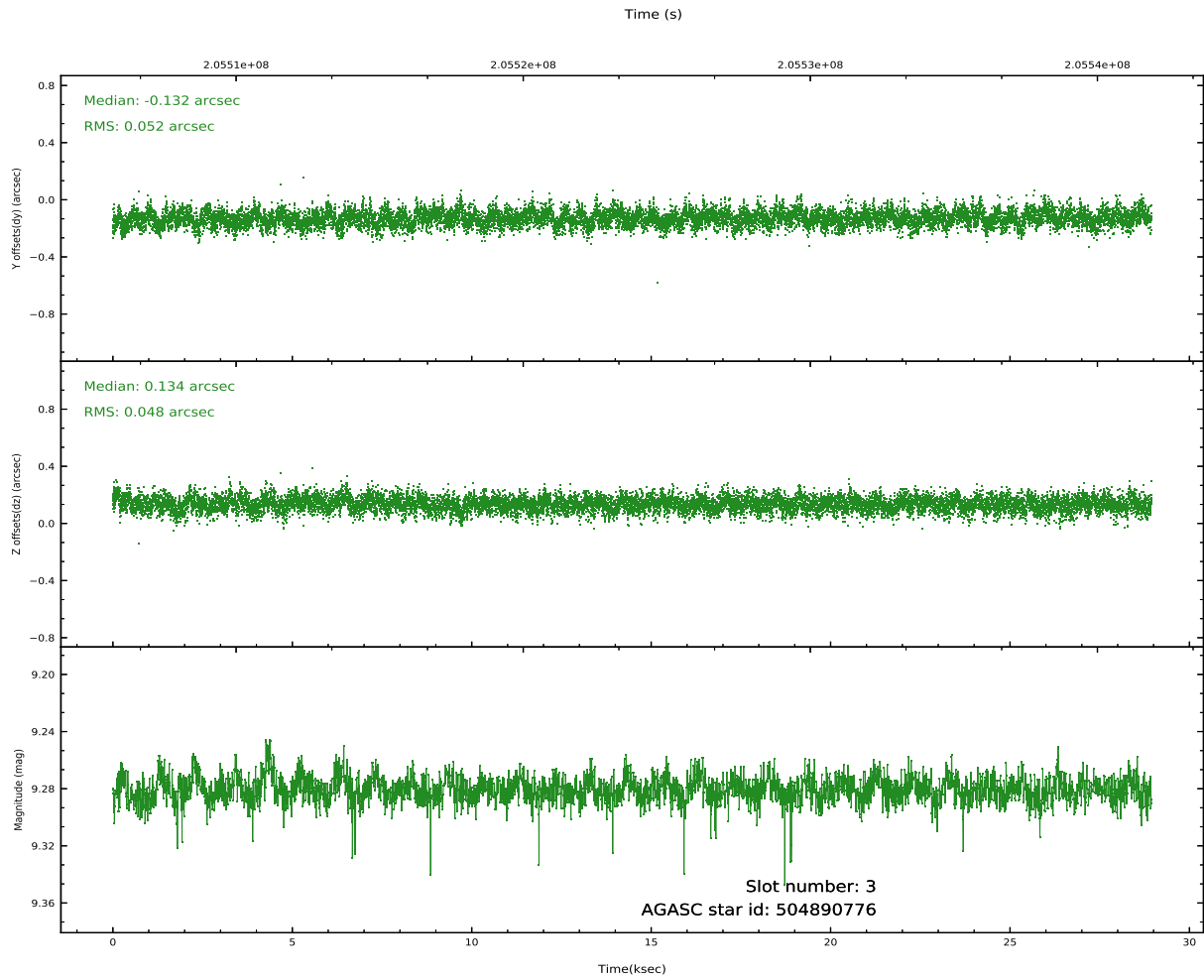
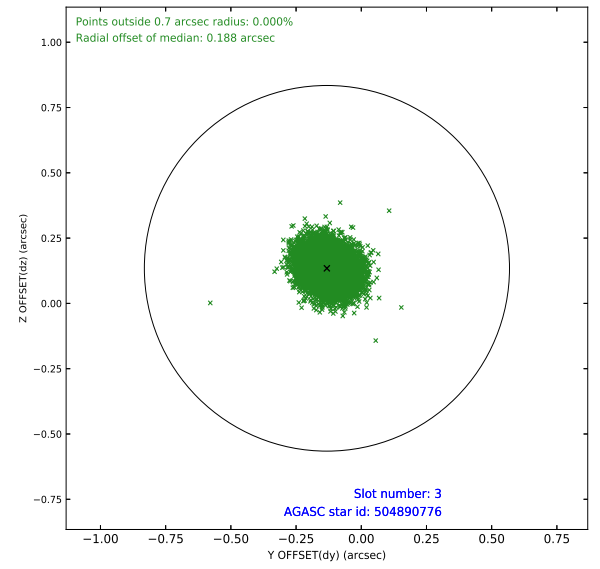
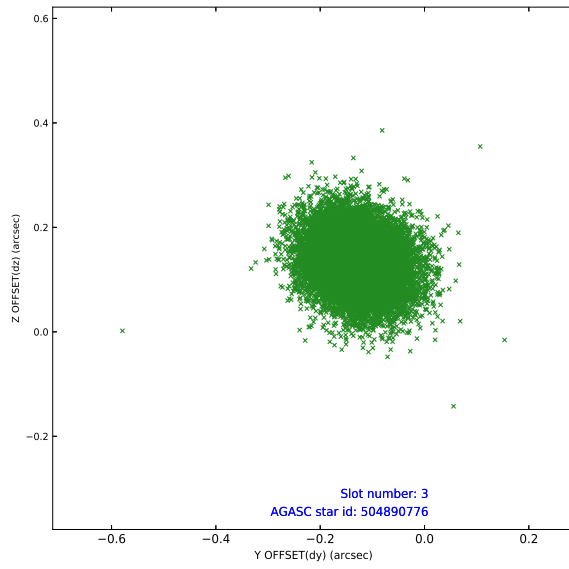


Slot Statistics

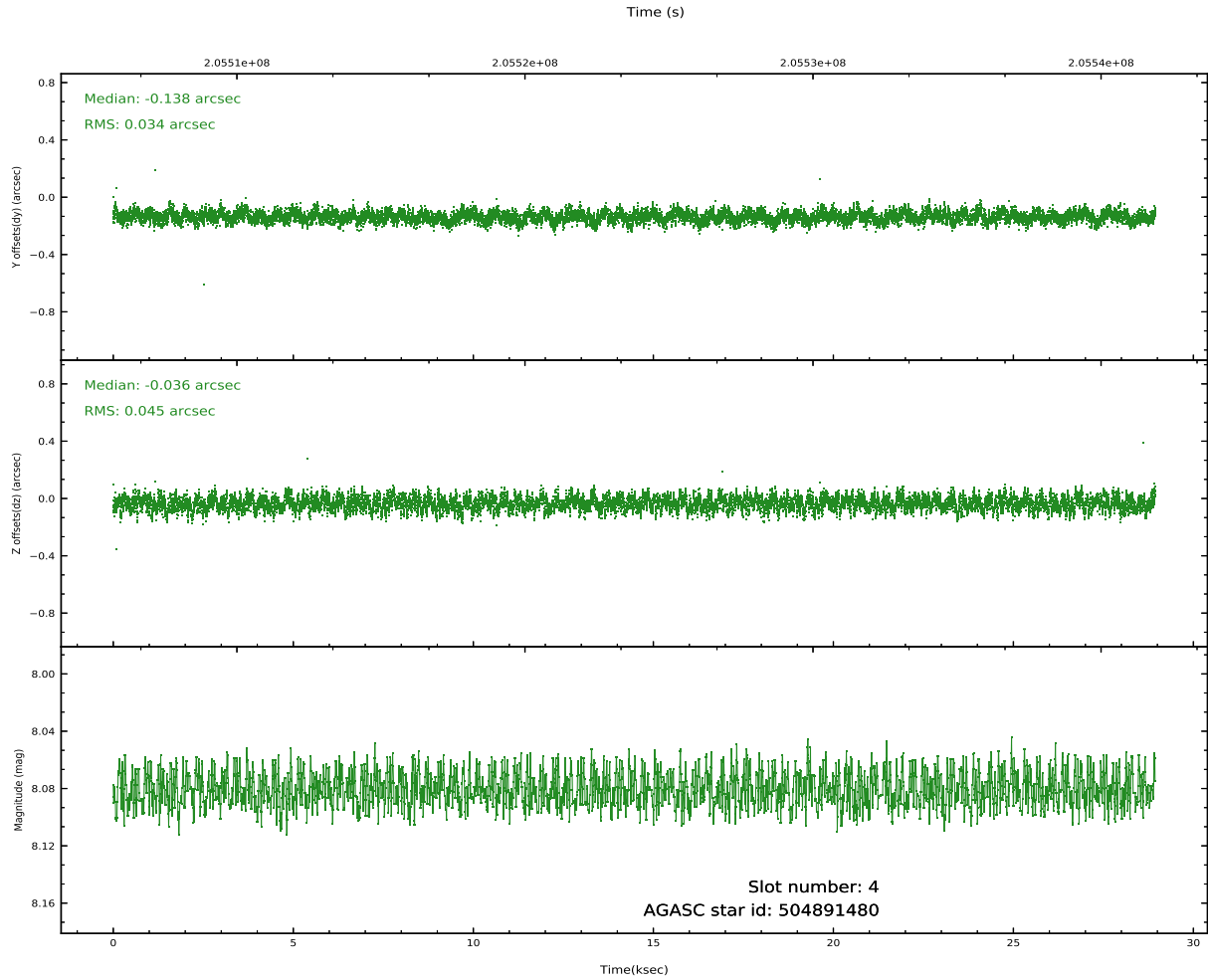
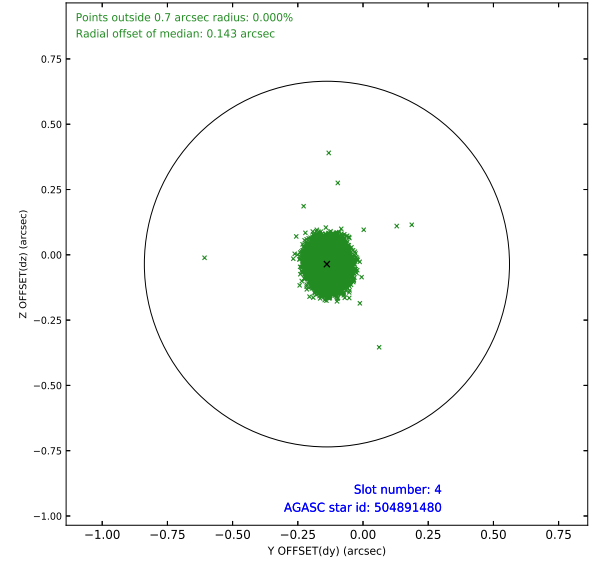
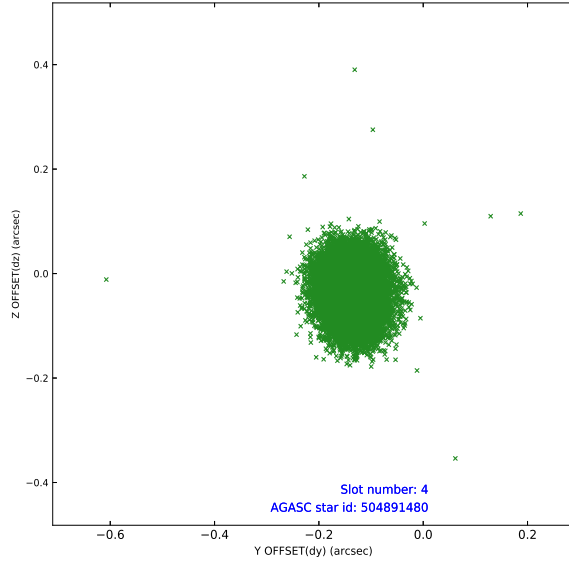
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.10	7058	1.000	-0.129	-0.102	0.009	0.021	0.000000	0.000000	-758.01	-1730
1	FID		ACIS-S-4	7.20	7060	1.000	0.088	0.075	0.007	0.013	0.000000	0.000000	2155.44	178
2	FID		ACIS-S-6	7.35	7060	1.000	0.012	0.033	0.010	0.016	0.000000	0.000000	404.21	815
3	GUIDE	used	504890776	9.28	14110	1.000	-0.132	0.134	0.075	0.124	211.095934	54.816966	-1867.54	-75
4	GUIDE	used	504891480	8.08	14112	1.000	-0.138	-0.036	0.061	0.095	210.708012	54.666096	-1042.83	-590
5	GUIDE	used	504893088	9.21	14115	1.000	0.059	-0.075	0.076	0.123	210.351715	54.364955	249.76	-834
6	GUIDE	used	504894856	8.98	14053	1.000	0.128	-0.113	0.079	0.128	209.819510	54.132689	1462.09	-1529
7	GUIDE	used	504890480	8.18	14114	1.000	0.081	0.088	0.068	0.108	210.132463	53.768436	2404.18	-401

2.4 Star Slots

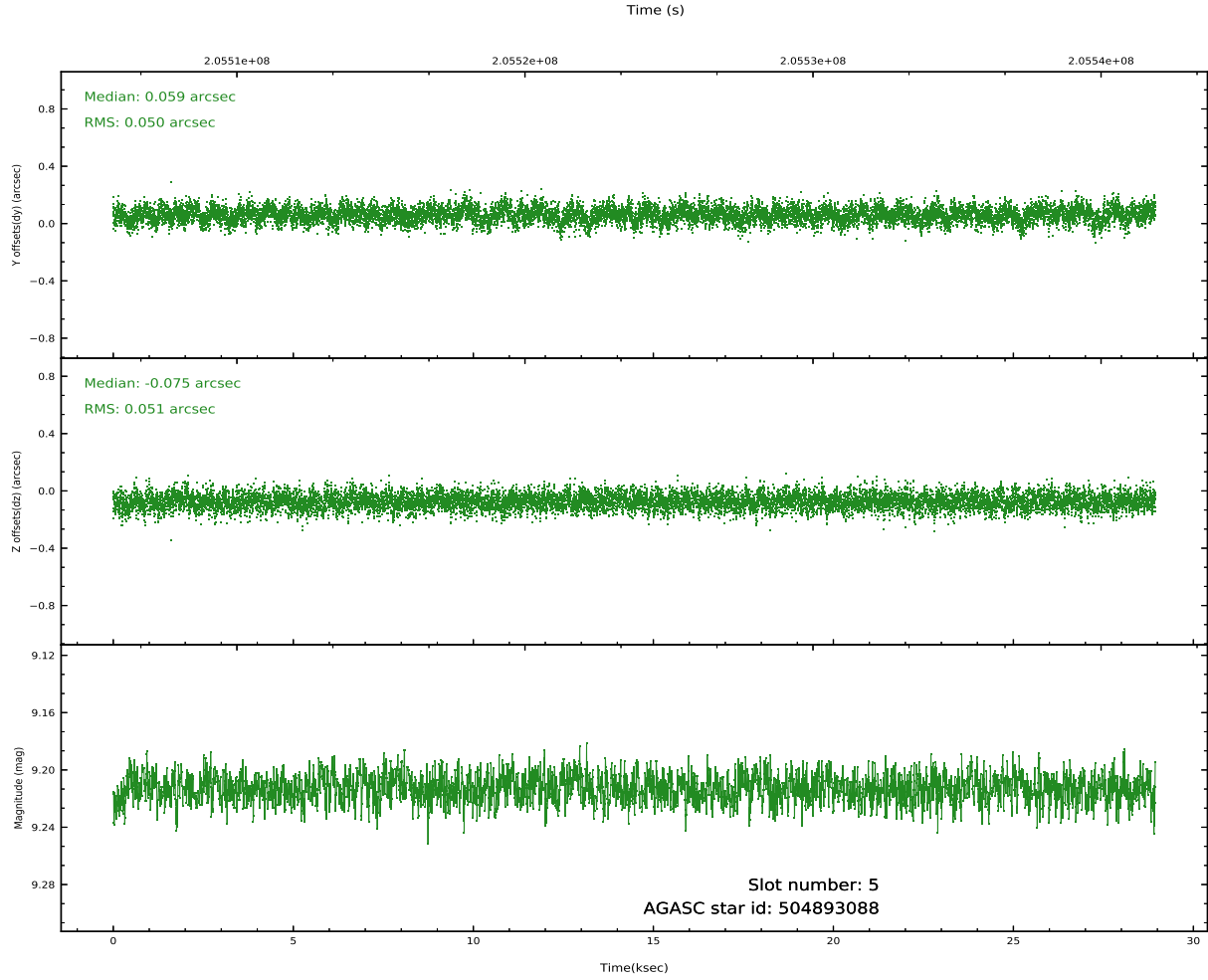
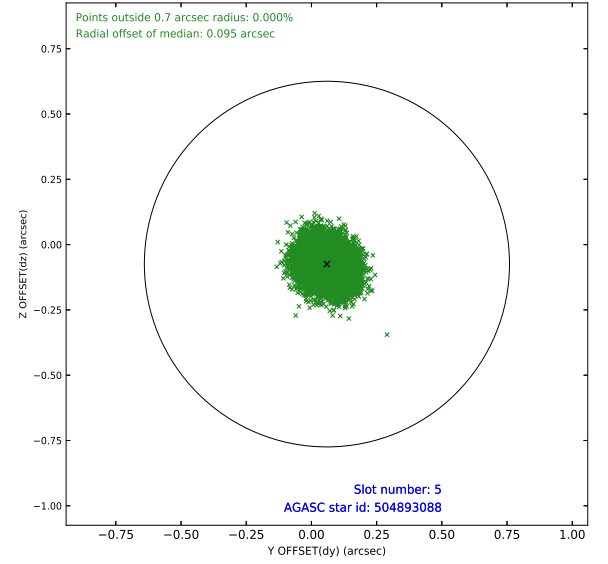
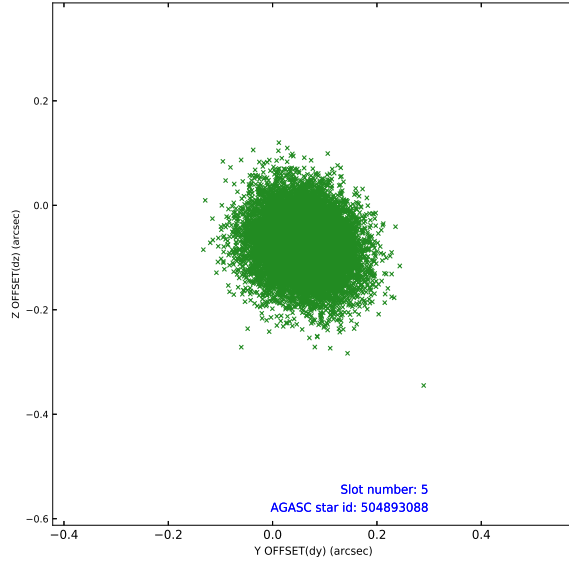
2.4.1 Slot 3



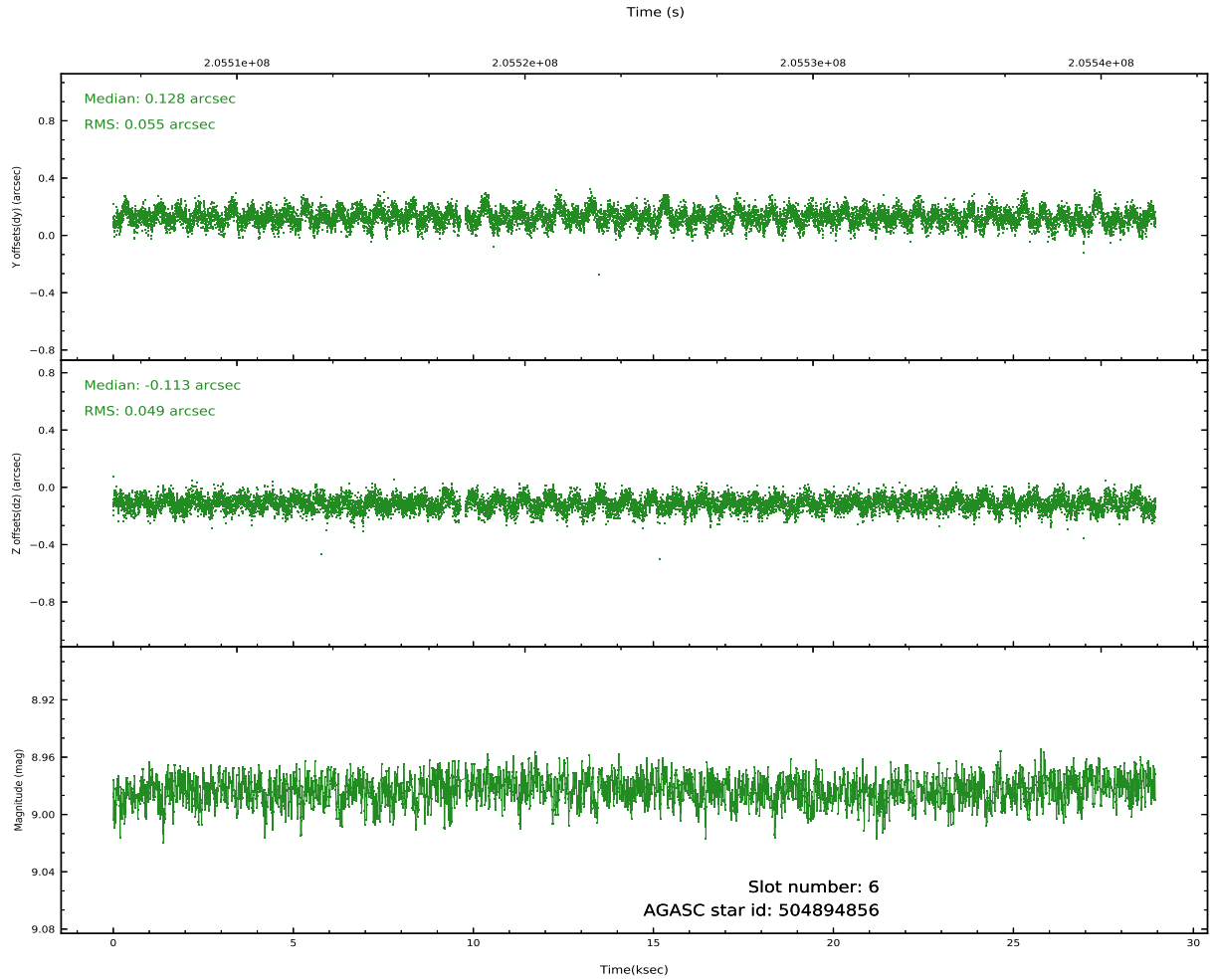
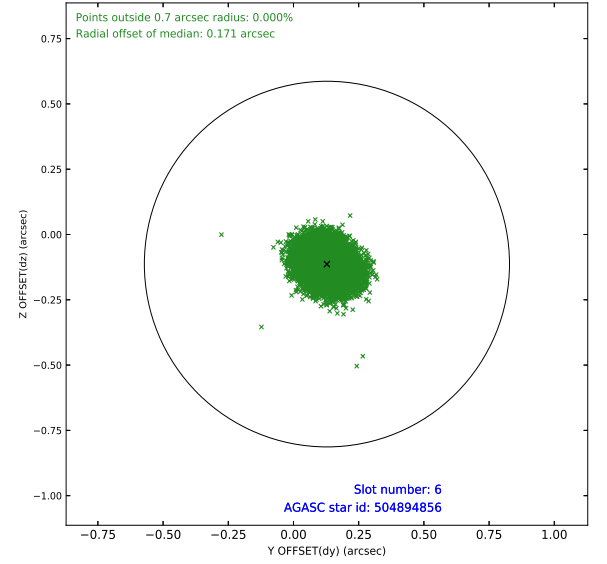
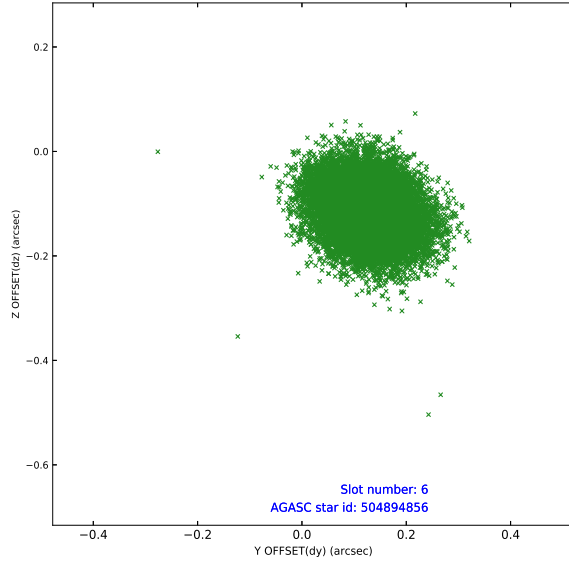
2.4.2 Slot 4



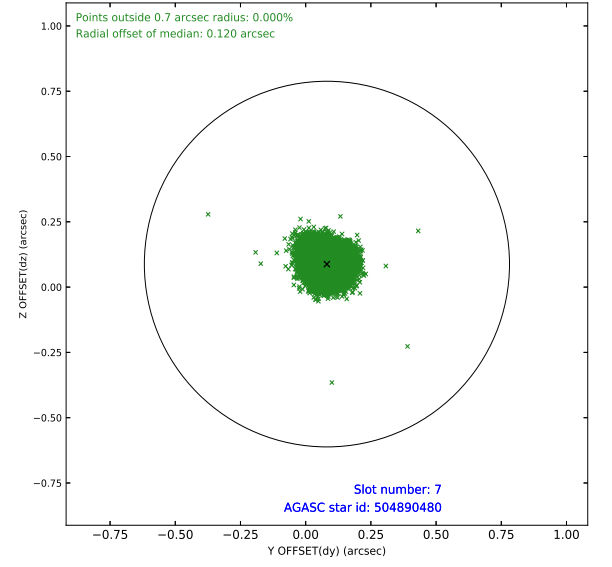
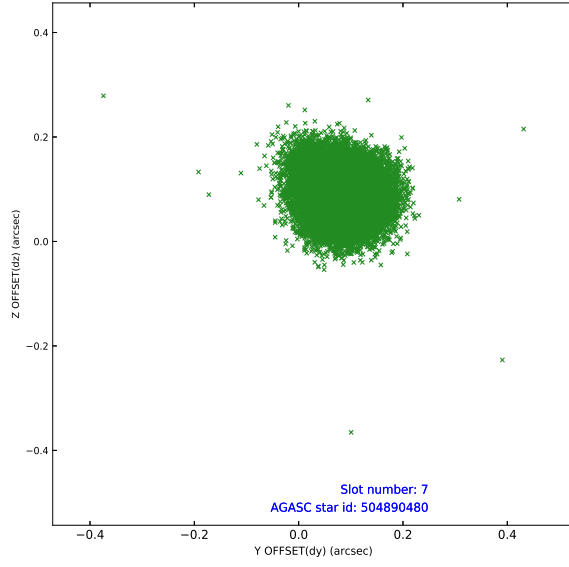
2.4.3 Slot 5



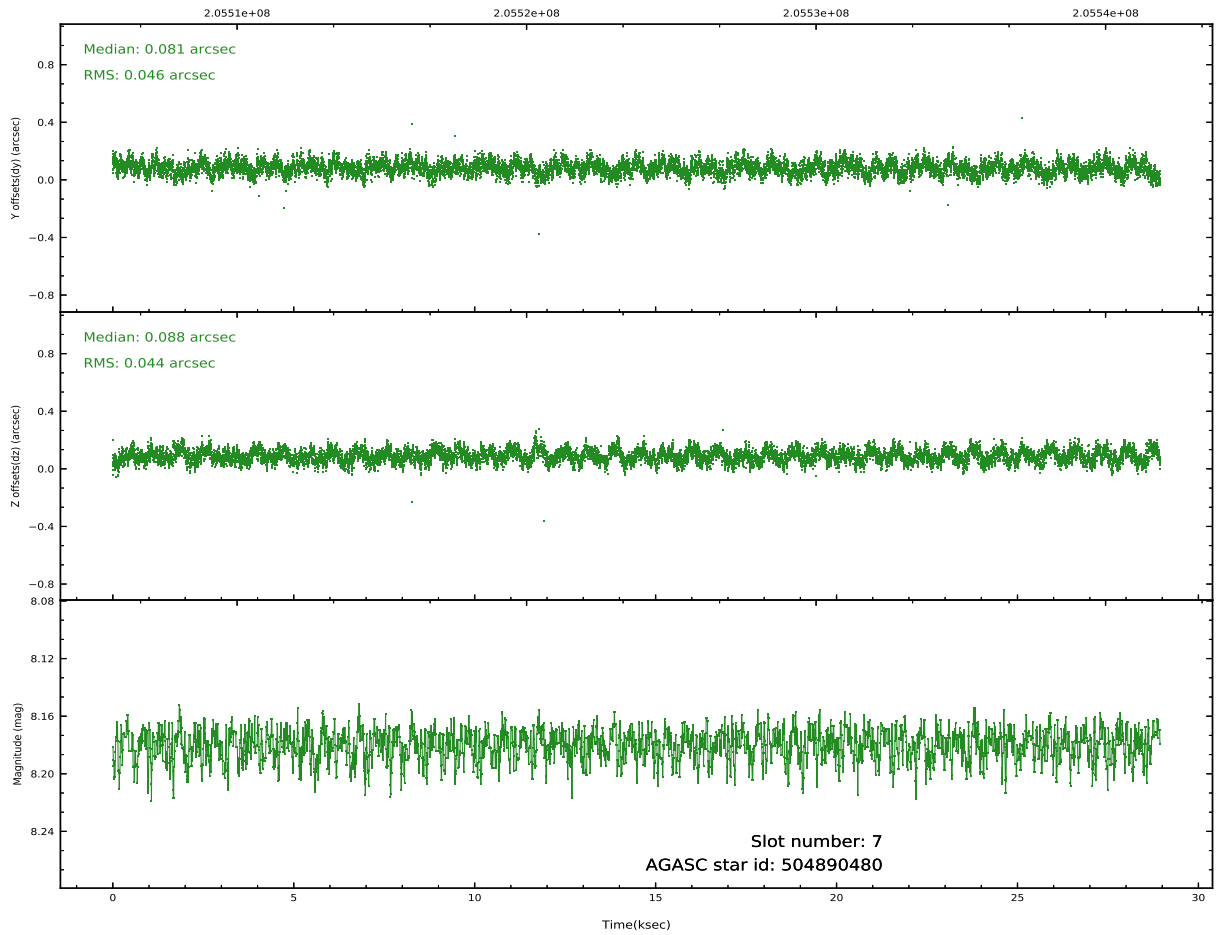
2.4.4 Slot 6



2.4.5 Slot 7

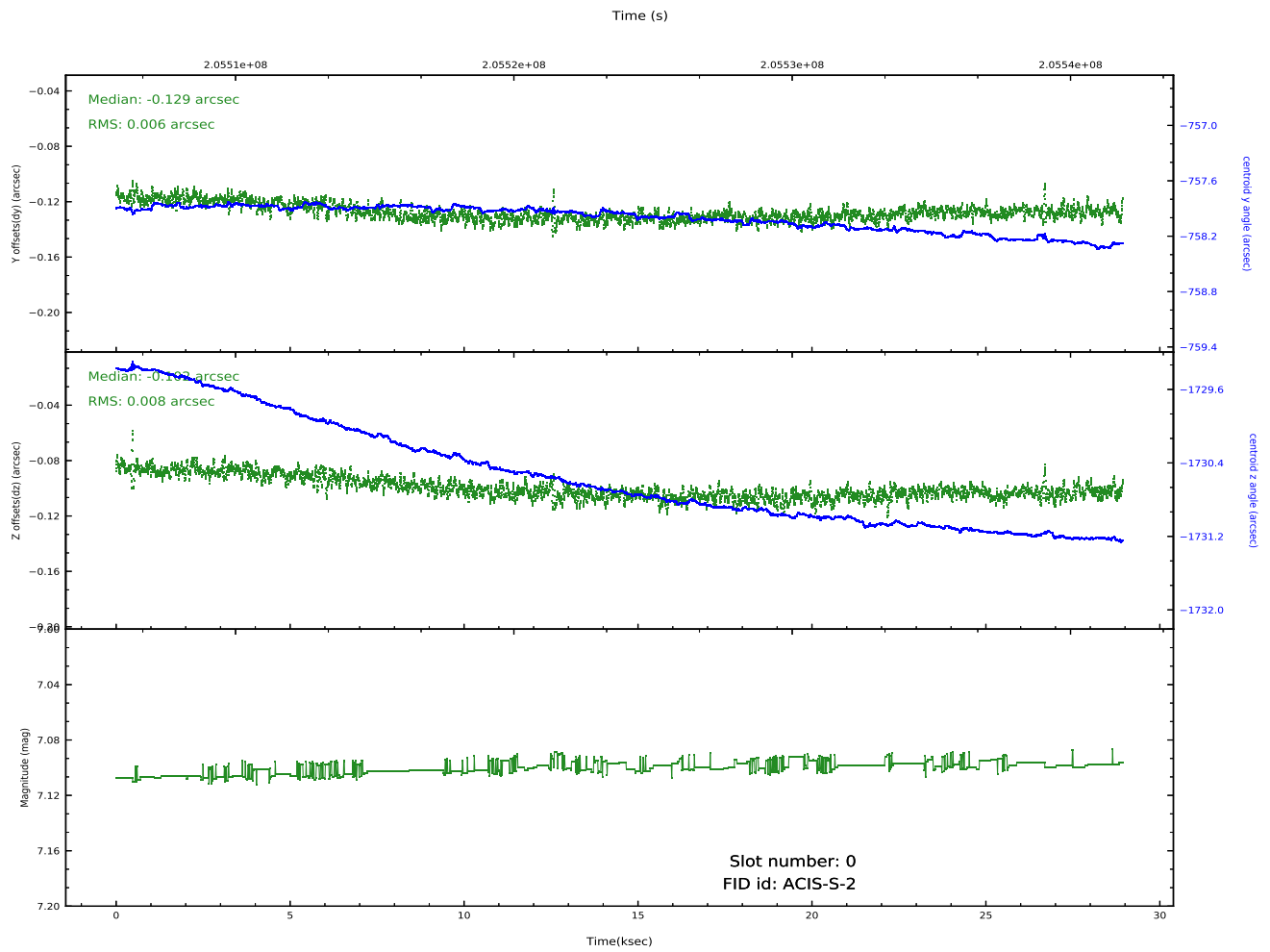
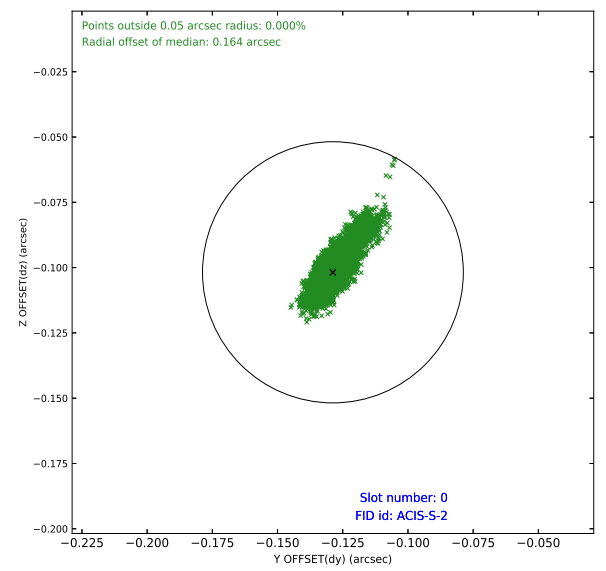
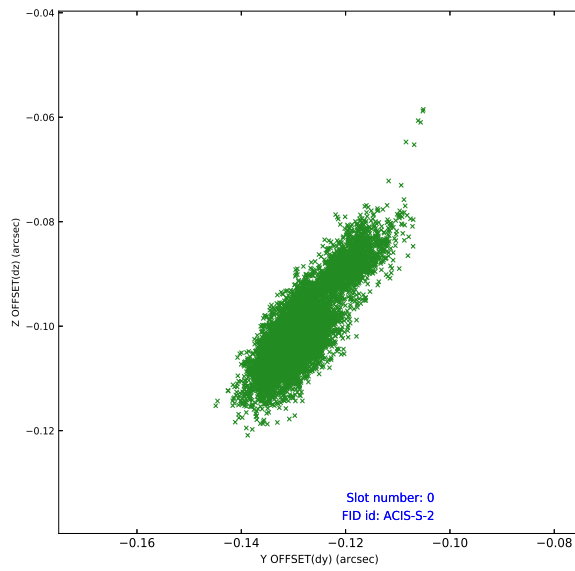


Time (s)

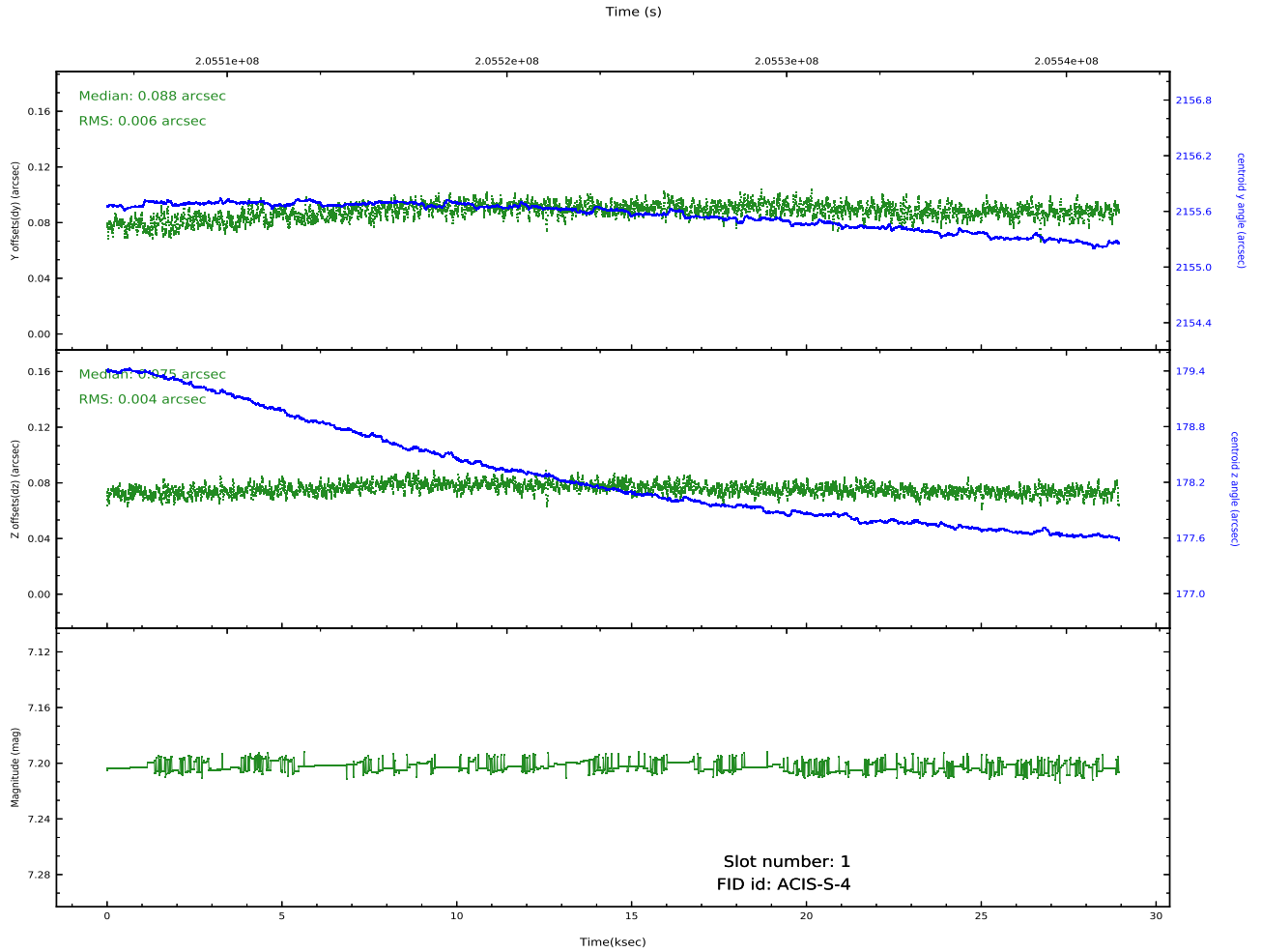
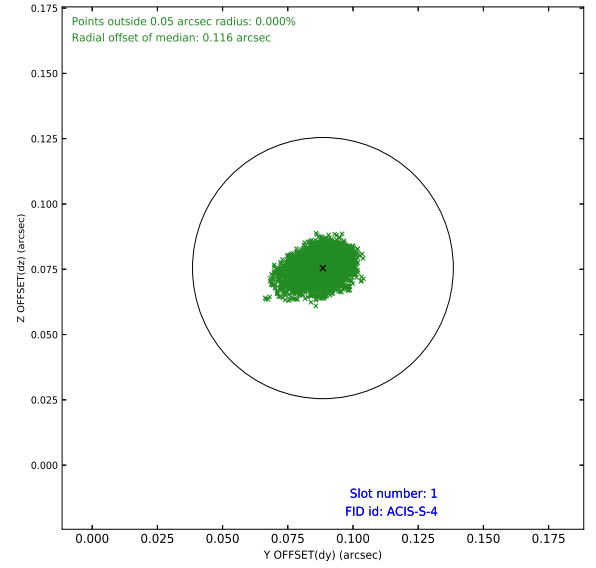
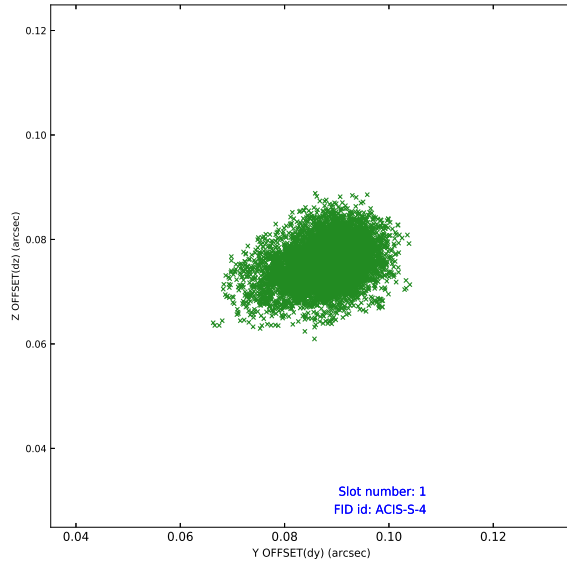


2.5 FID Slots

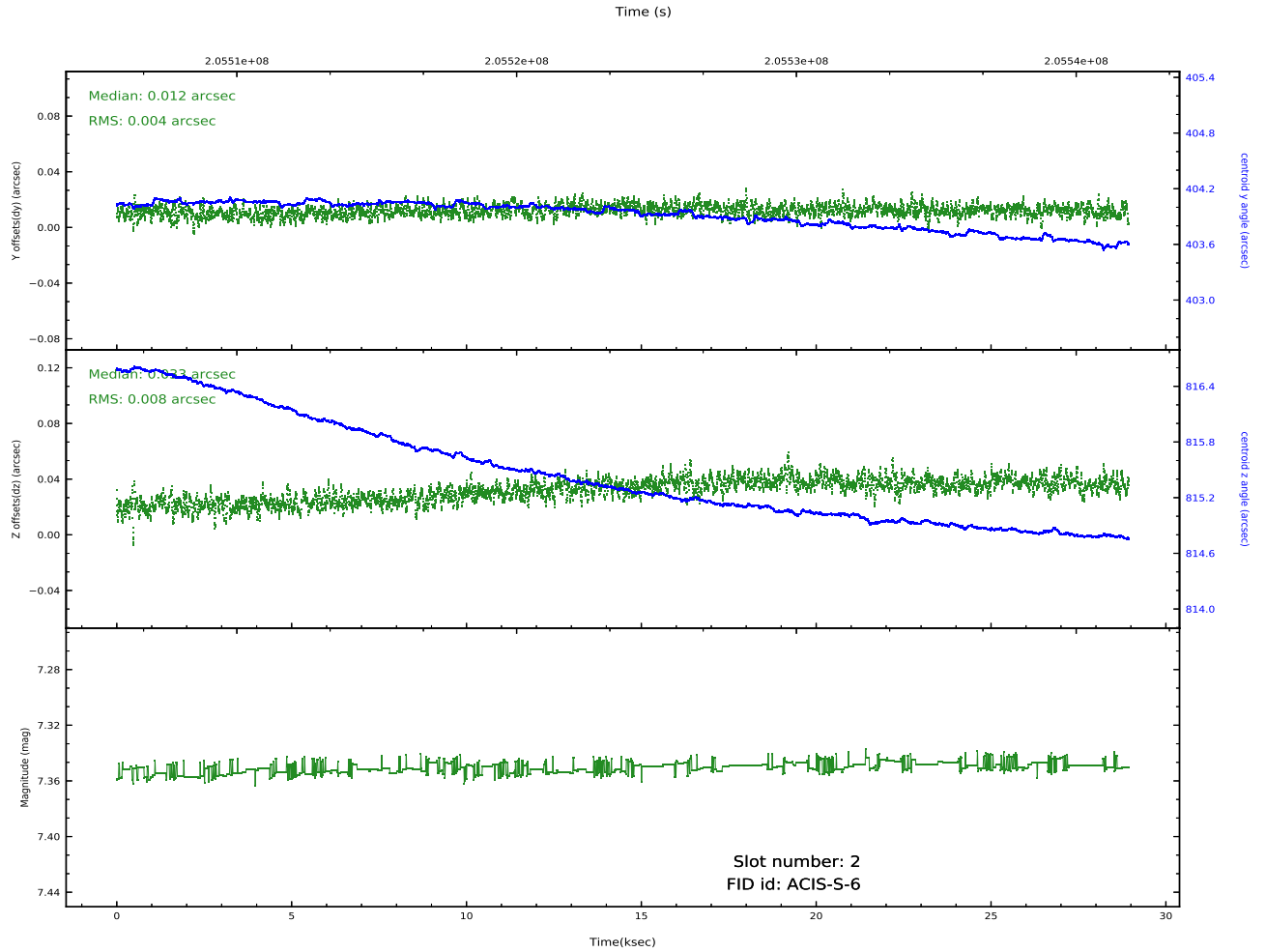
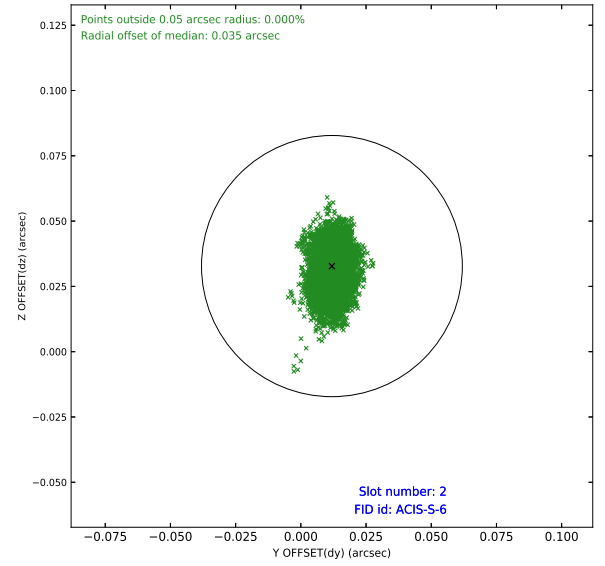
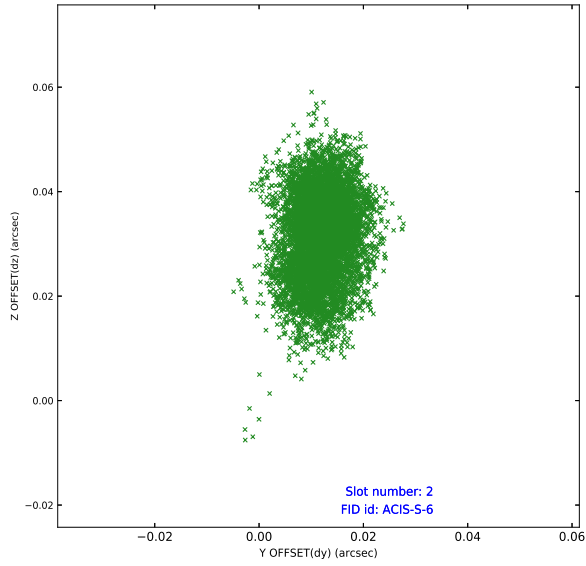
2.5.1 Slot 0



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)	2020.09.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	28.934

A.2 Comments