

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 4990 - L2 Version 4
Chandra X-Ray Center

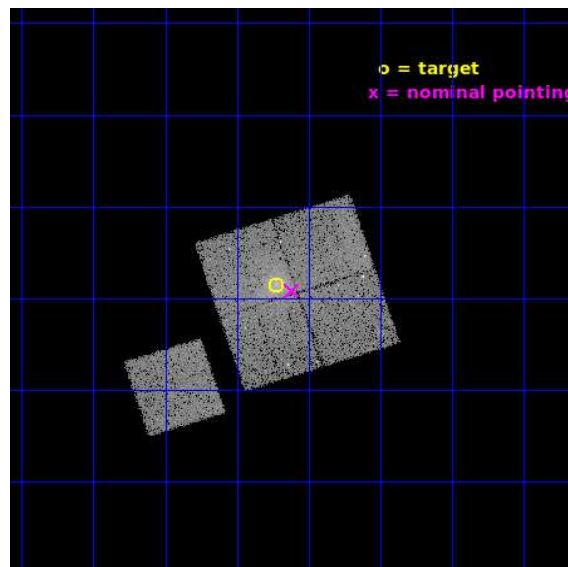
L2 Processing Date : Sep 28 2020

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1 Front

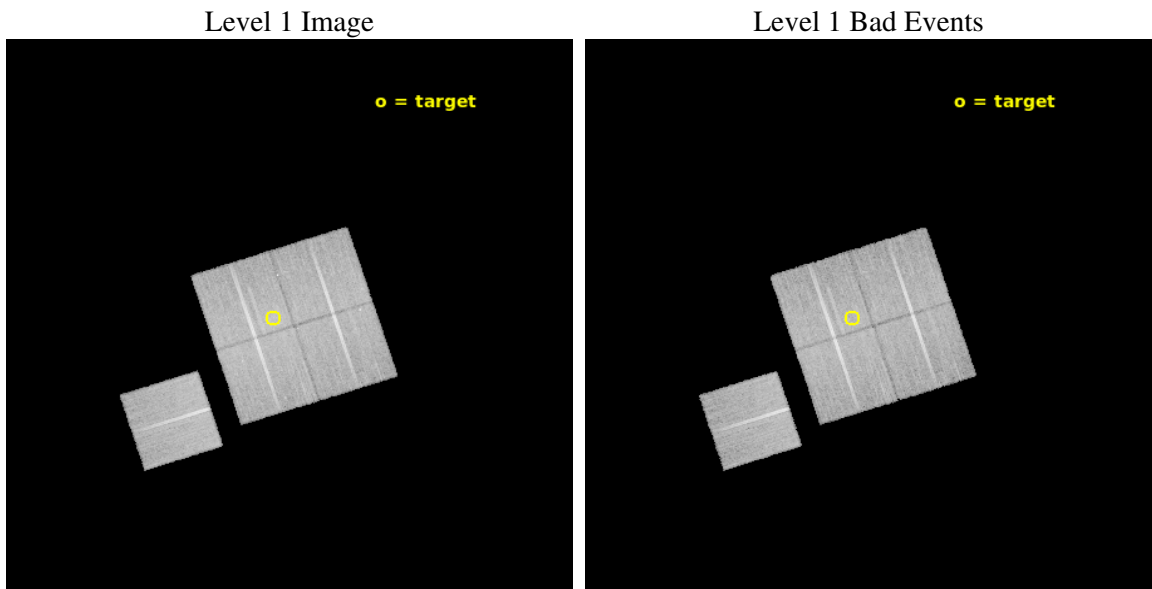
seq_num	800433	Sequence number
obs_id	4990	Observation id
title	X-ray Properties of a Mass-Selected Group Catalogue: A Pilot Study	
observer	Dr Richard Bower	Principal investigator
object	ZwCl 5770	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	198.055833	Observer's specified target RA [deg]
dec_targ	-0.974806	Observer's specified target Dec [deg]
ra_nom	198.02922708565	Nominal RA [deg]
dec_nom	-0.98578397639296	Nominal Dec [deg]
roll_nom	251.96596550037	Nominal Roll [deg]
revision	4	Processing version of data
ontime	21767.589443296	Sum of GTIs [s]
livetime	21483.179862153	Livetime [s]
ontime0	21770.607313424	Sum of GTIs [s]
ontime1	21761.225512415	Sum of GTIs [s]
ontime2	21770.689393431	Sum of GTIs [s]
ontime3	21767.589443296	Sum of GTIs [s]
ontime6	21770.566243529	Sum of GTIs [s]
l2events	62743	Number of level 2 events



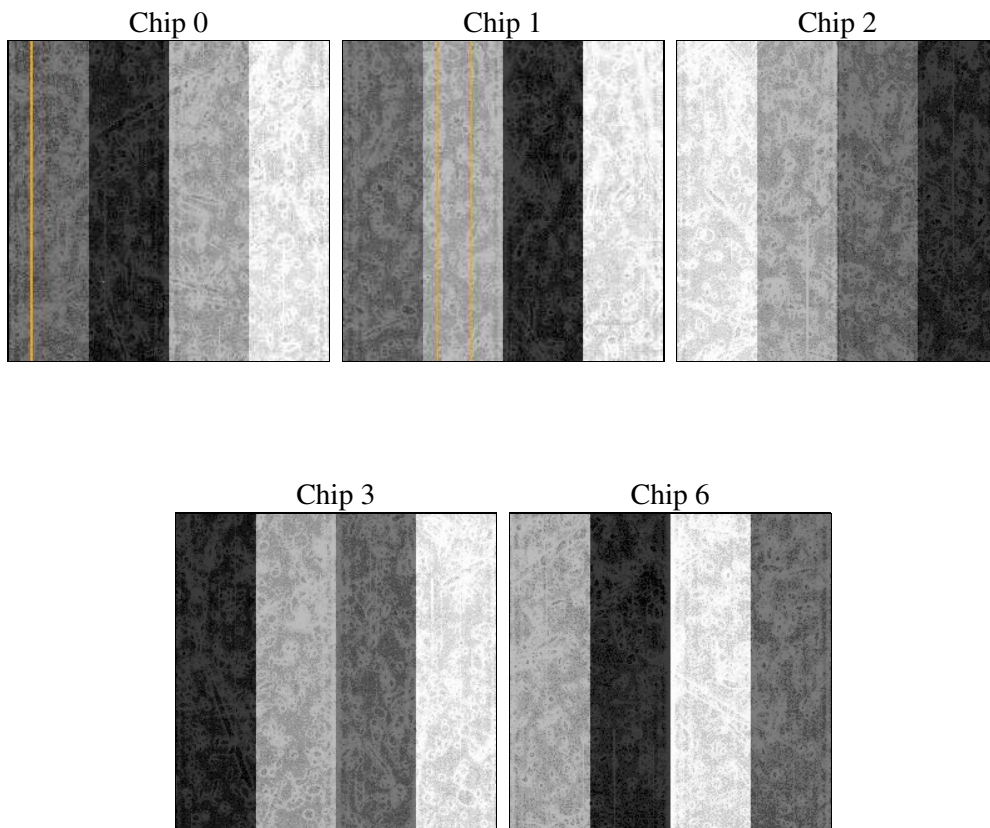
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	22000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	21767.589443296	Sum of GTIs [s]
caldsver	4.9.2	 	ontime0	21770.607313424	Sum of GTIs [s]
date	2020-09-28T10:13:05	Date and time of file creation	ontime1	21761.225512415	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	21770.689393431	Sum of GTIs [s]
			ontime3	21767.589443296	Sum of GTIs [s]
			ontime6	21770.566243529	Sum of GTIs [s]
			l1events	677240	Number of level 1 events

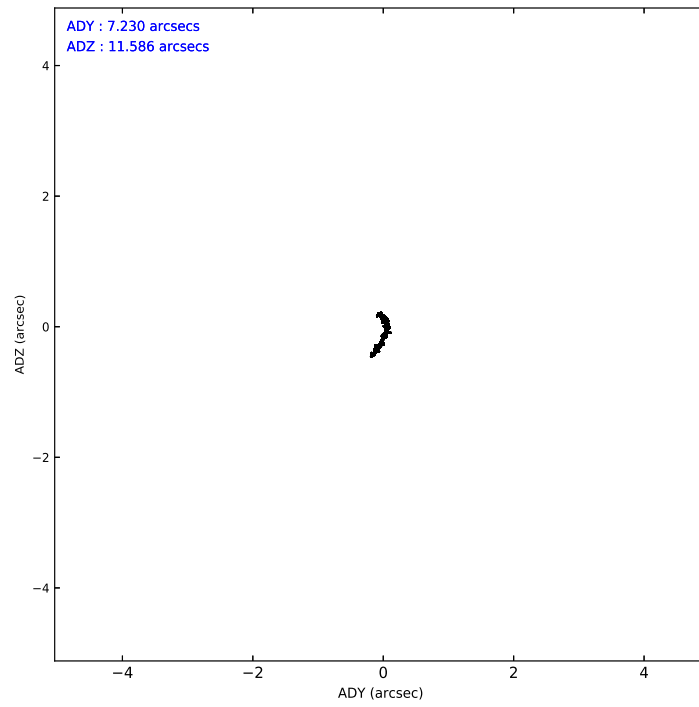
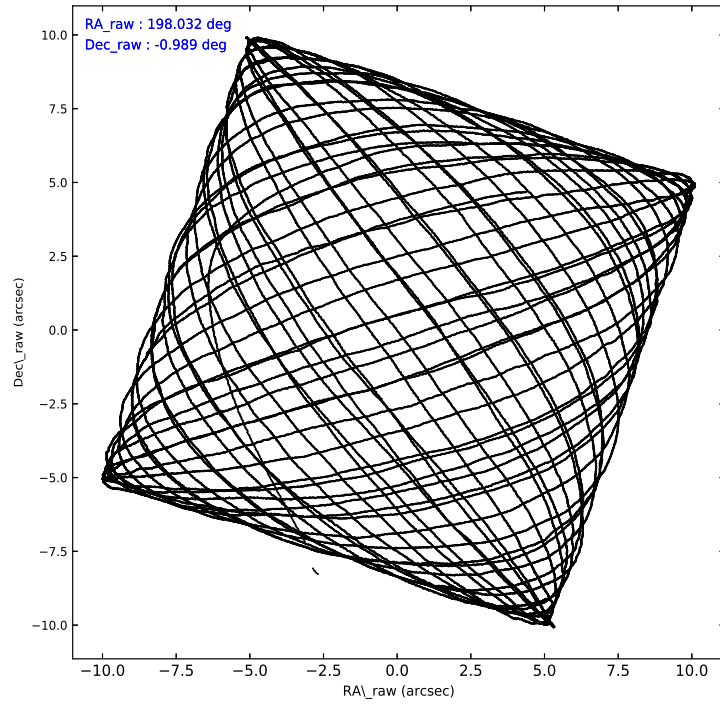
2.1.4 Events

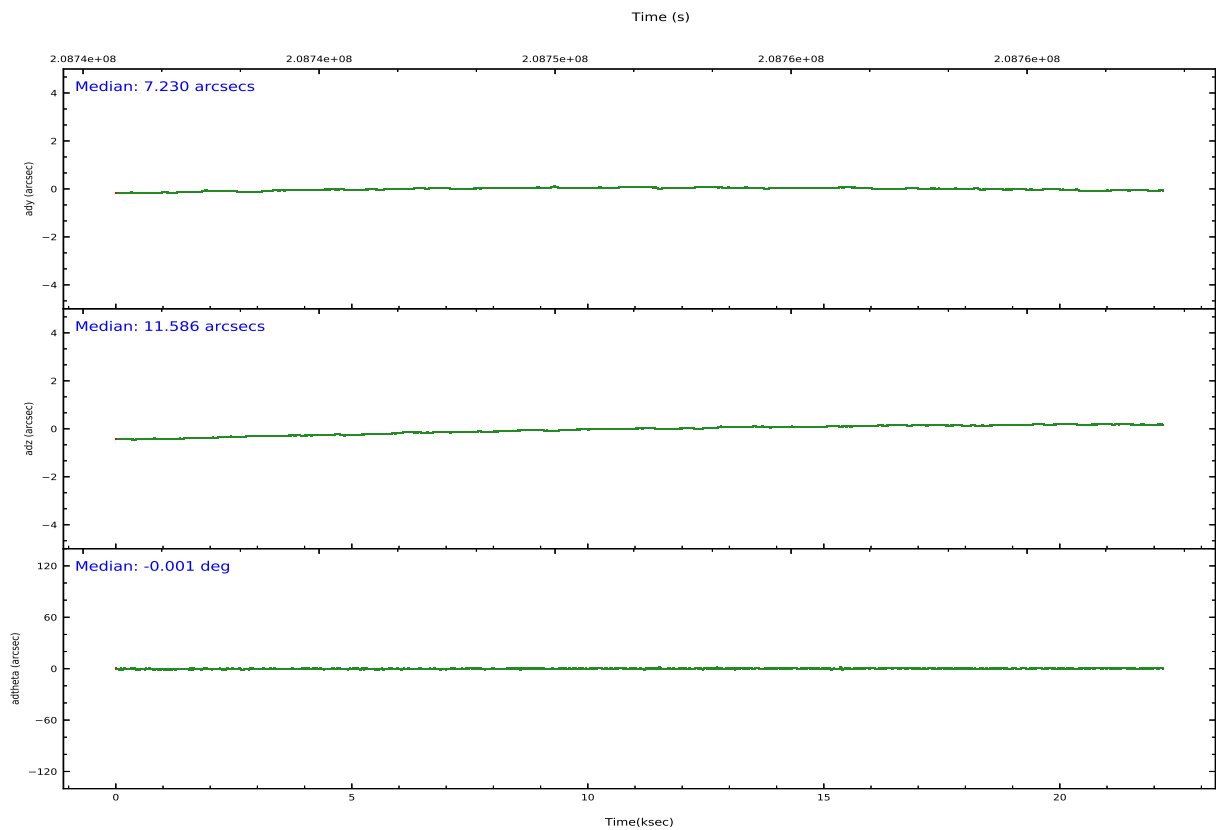
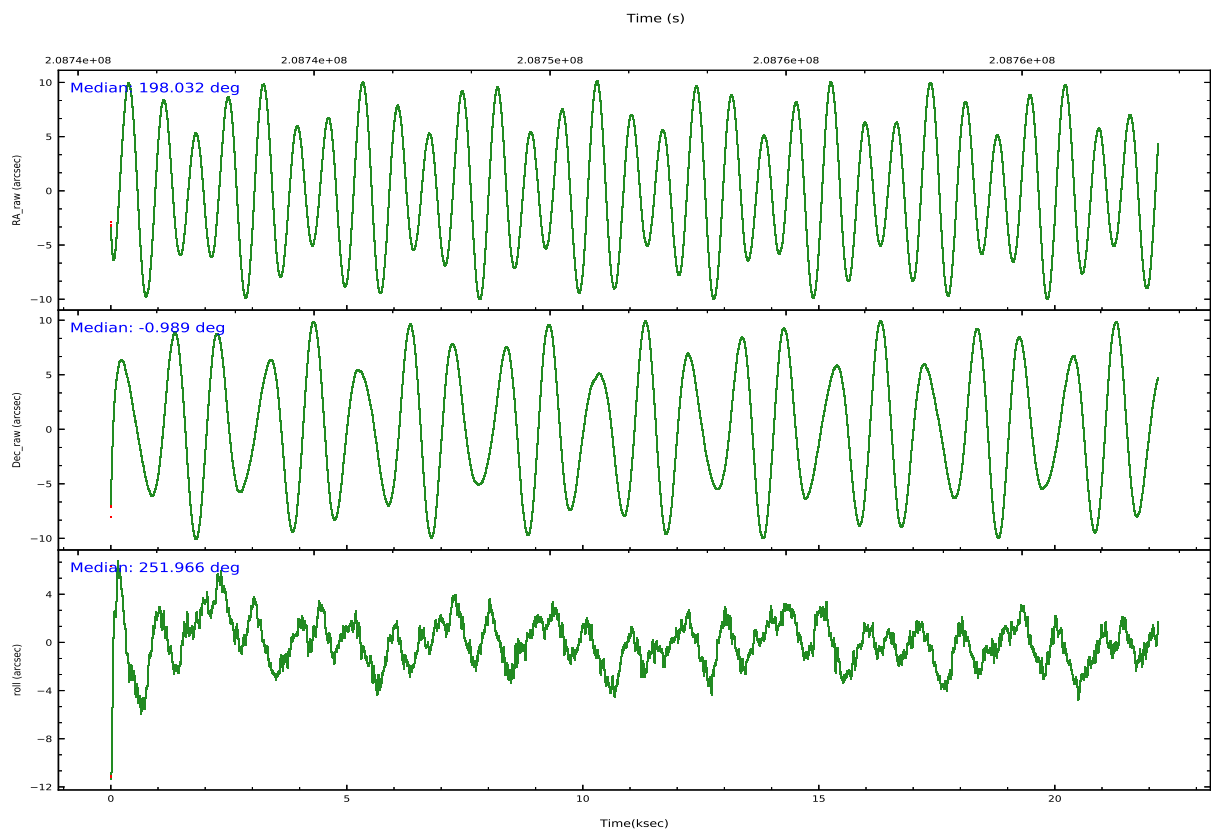
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	127740	130283	140761	141207	137249	grade 0 events	5260	6061	5726	8184	4712
rejected events	113655	114308	126470	124181	123501		4%	4%	4%	5%	3%
rejected %	88%	87%	89%	87%	89%	grade 1 events	58	63	66	91	51
							0%	0%	0%	0%	0%
						grade 2 events	3284	3419	3090	3156	2902
							2%	2%	2%	2%	2%
						grade 3 events	1576	1746	1487	1549	1655
							1%	1%	1%	1%	1%
						grade 4 events	1446	1722	1533	1492	1555
							1%	1%	1%	1%	1%
						grade 5 events	4749	5079	4495	5322	5300
							3%	3%	3%	3%	3%
						grade 6 events	2525	3031	2459	2652	2931
							1%	2%	1%	1%	2%
						grade 7 events	108842	109162	121905	118761	118143
							85%	83%	86%	84%	86%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-01236	ACIS-01236	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	198.025948	198.02922708565	Subarray requested	NONE	NONE
[deg] Pointing Dec	-0.962153	-0.98578397639296	Alternating exposures requested	N	N
[deg] Pointing Roll	251.757754	251.96596550037	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	208740884.184000	208739625.17885			
Observation start date	2004-08-12T23:33:40	2004-08-12T23:13:45			
[s] Observation end time (MET)	208762884.184000	208763726.51742			
Observation end date	2004-08-13T05:40:20	2004-08-13T05:55:26			
Read mode	TIMED	TIMED			

2.3 Aspect



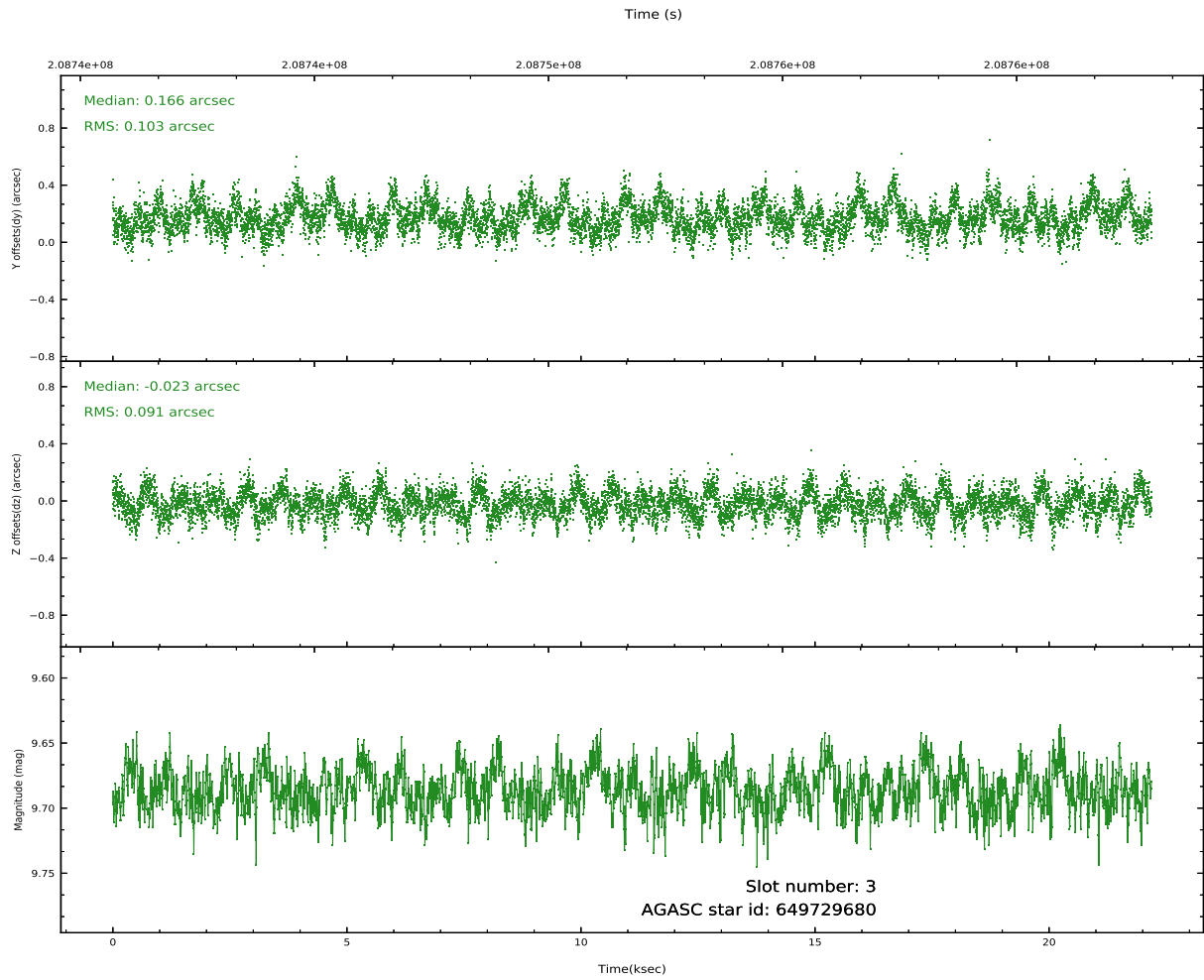
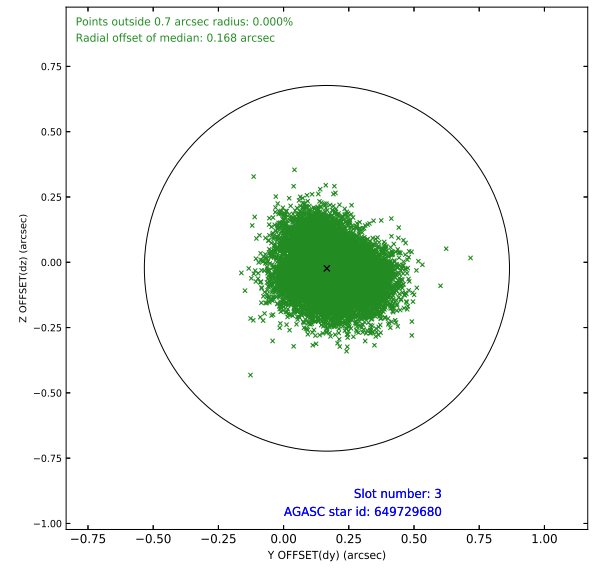
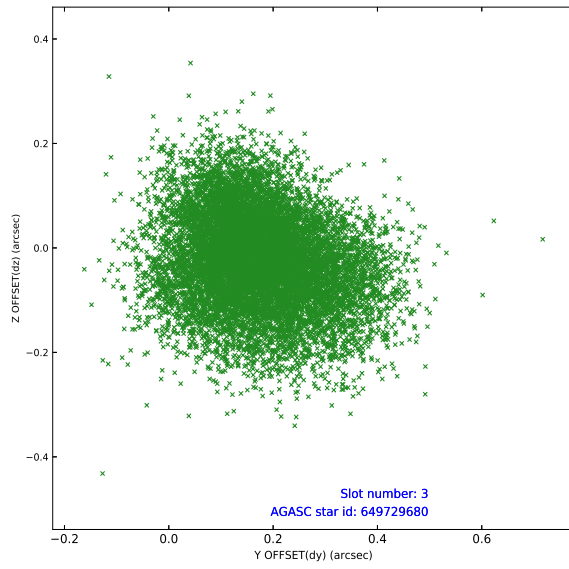


Slot Statistics

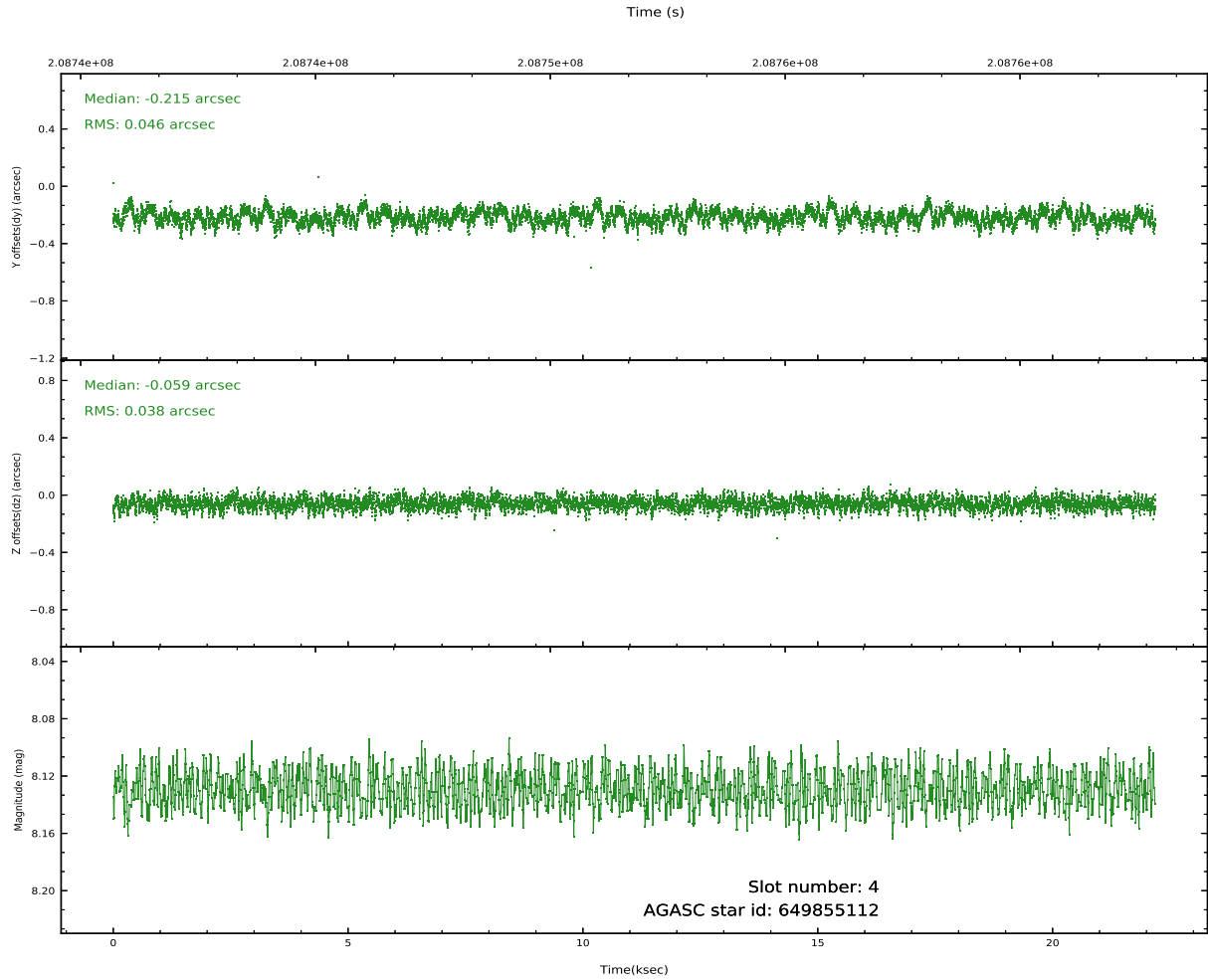
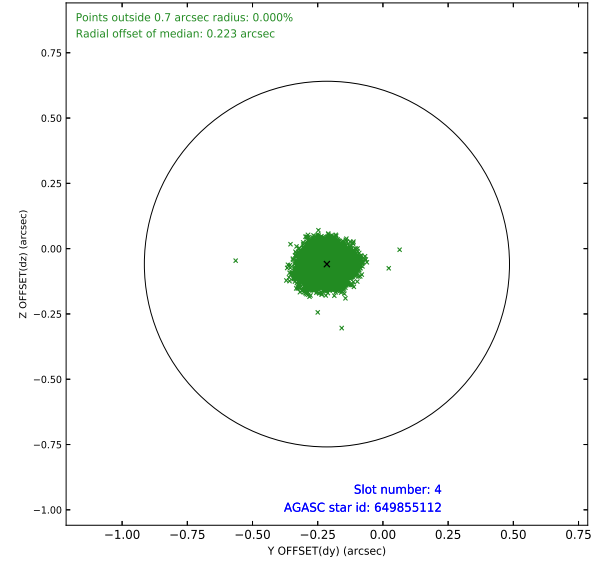
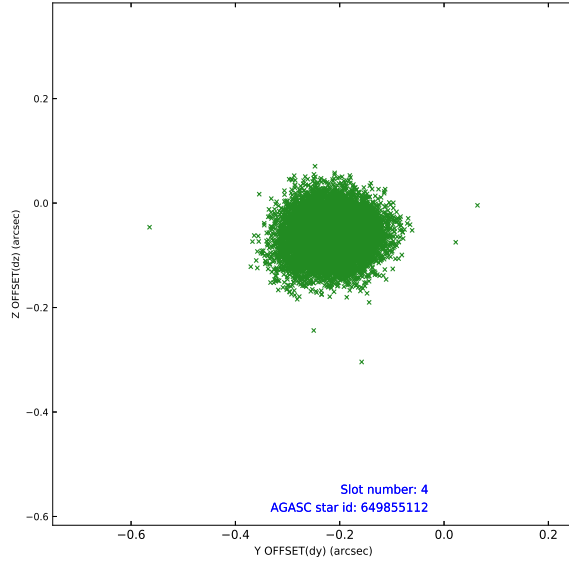
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.24	5413	1.000	0.050	-0.037	0.007	0.012	0.000000	0.000000	932.49	-835
1	FID		ACIS-I-5	7.23	5413	1.000	-0.201	0.053	0.007	0.012	0.000000	0.000000	-1815.75	1062
2	FID		ACIS-I-6	7.25	5412	1.000	0.059	0.054	0.008	0.014	0.000000	0.000000	397.92	1707
3	GUIDE	used	649729680	9.69	10816	1.000	0.166	-0.023	0.146	0.236	197.477731	-1.403690	2128.32	-1375
4	GUIDE	used	649855112	8.13	10822	1.000	-0.215	-0.059	0.064	0.101	197.679794	-0.418807	-1466.96	-1795
5	GUIDE	used	649856976	9.84	10821	1.000	0.157	0.193	0.100	0.160	197.988518	-1.476151	1800.27	451
6	GUIDE	used	649858864	9.64	10815	1.000	-0.018	0.001	0.114	0.184	197.684428	-0.695156	-527.13	-1468
7	GUIDE	used	649860032	8.92	10815	1.000	-0.096	-0.118	0.108	0.168	197.517008	-0.616758	-606.69	-2129

2.4 Star Slots

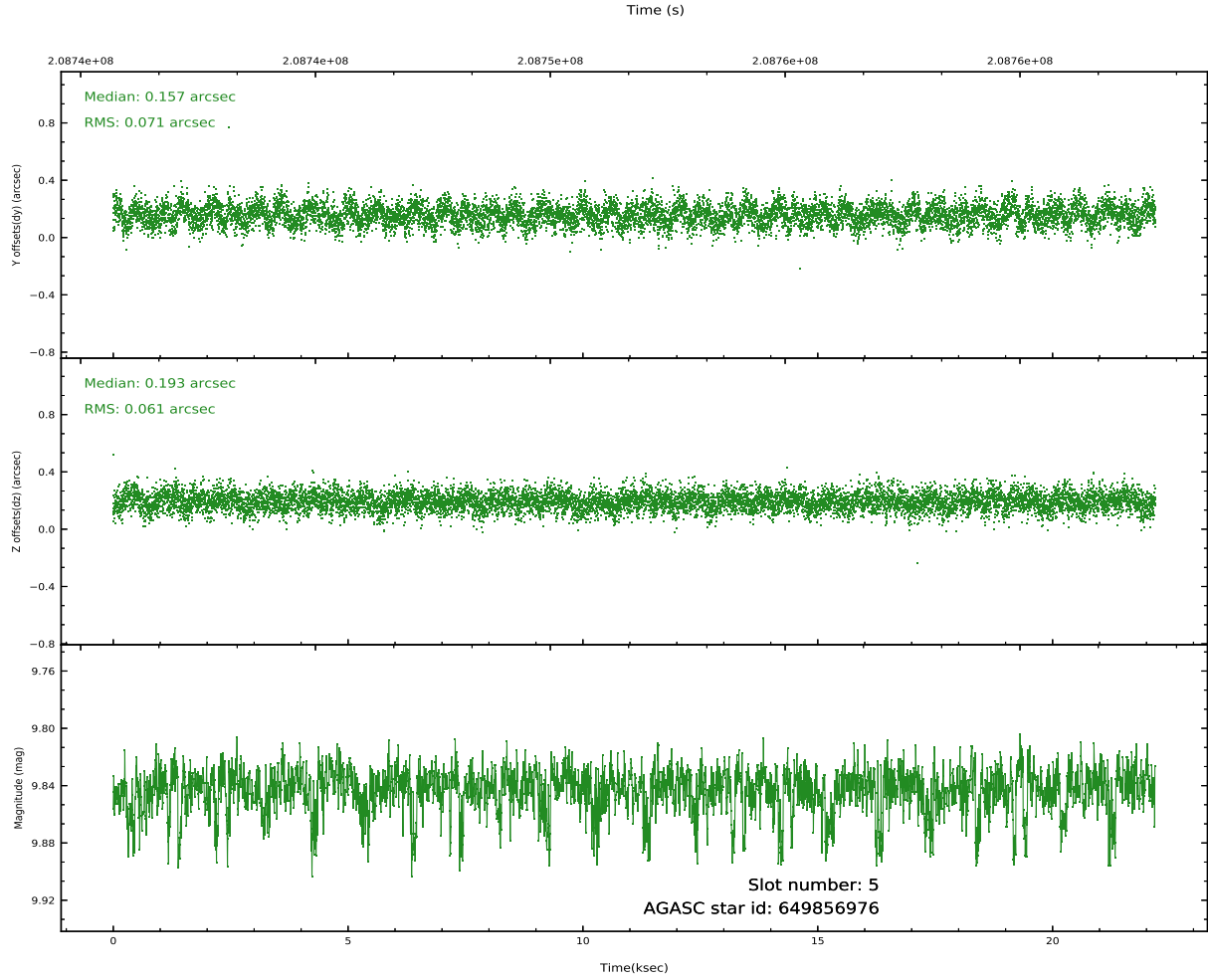
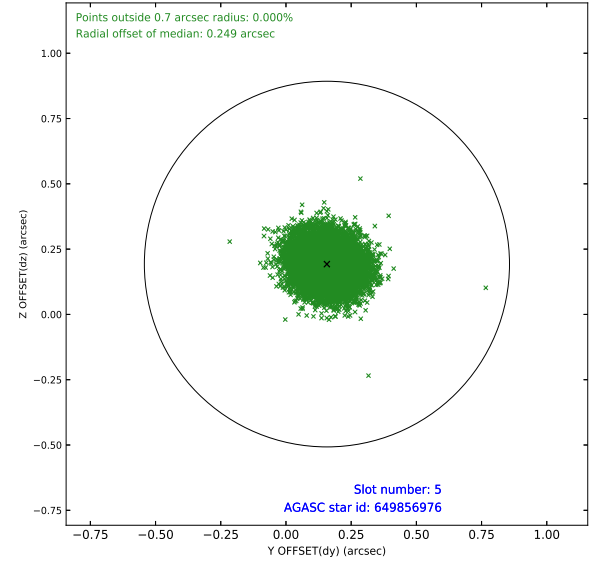
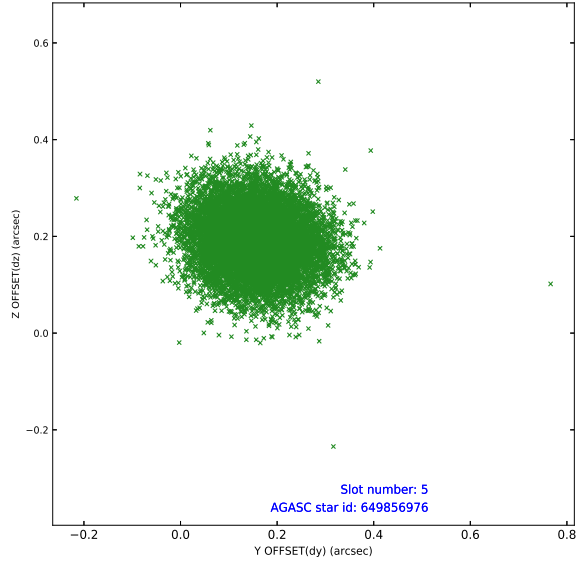
2.4.1 Slot 3



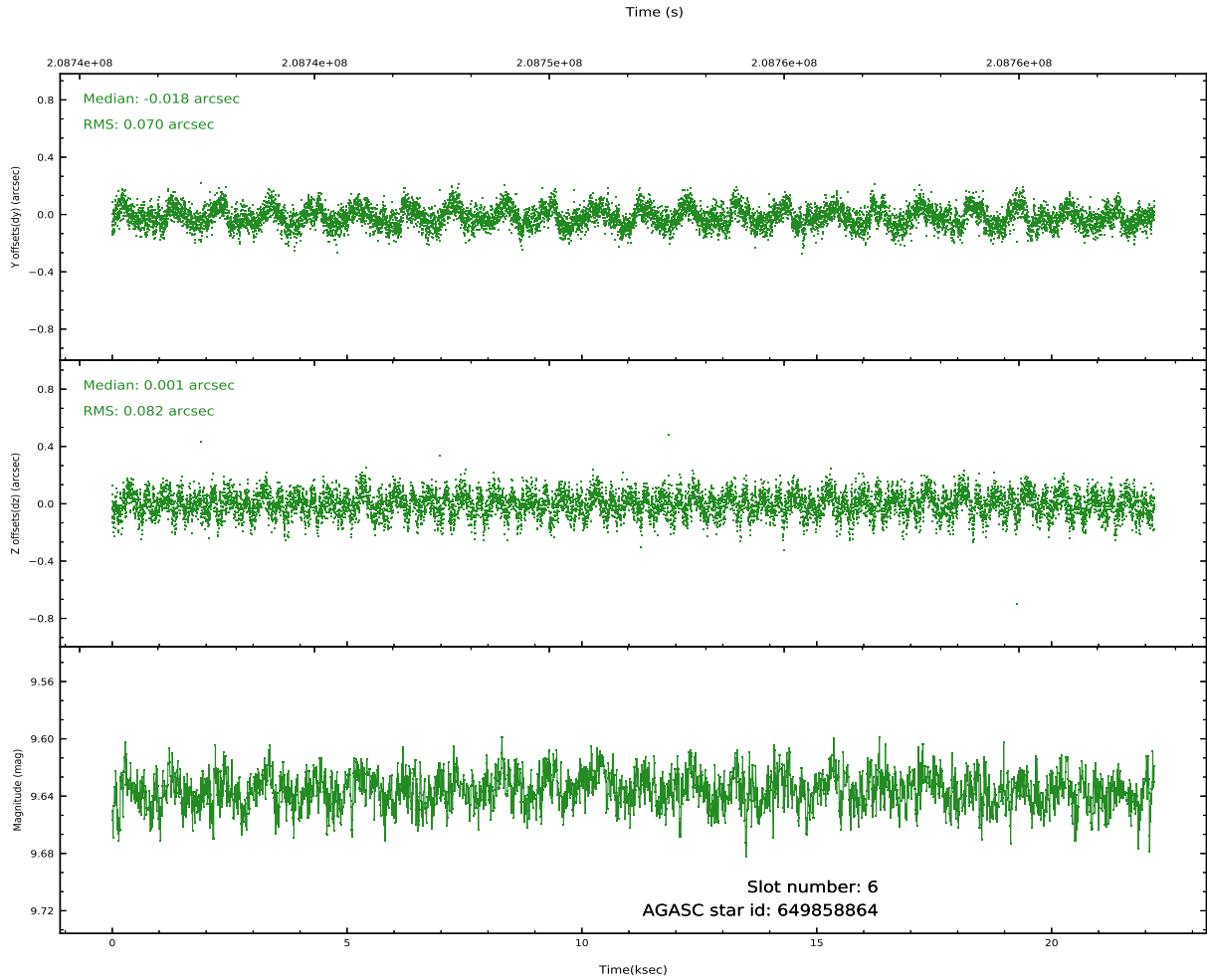
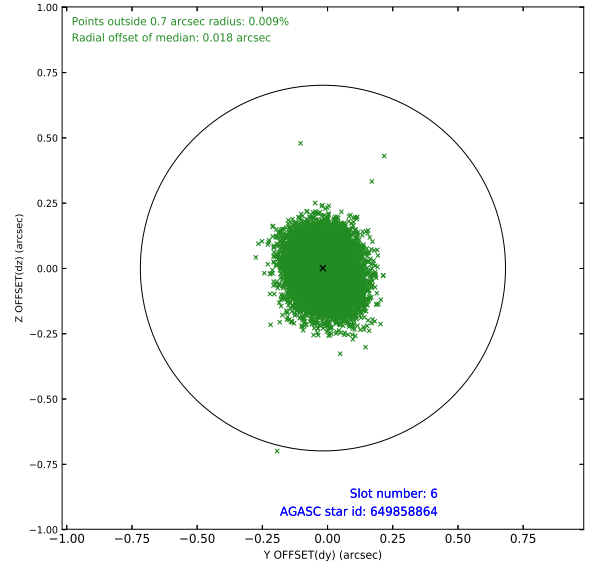
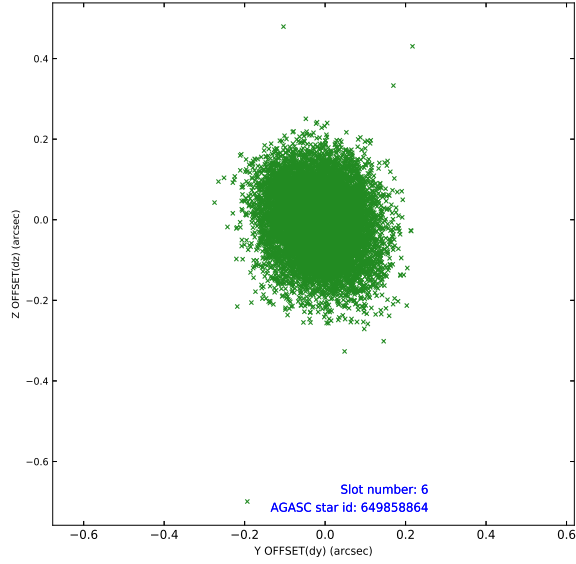
2.4.2 Slot 4



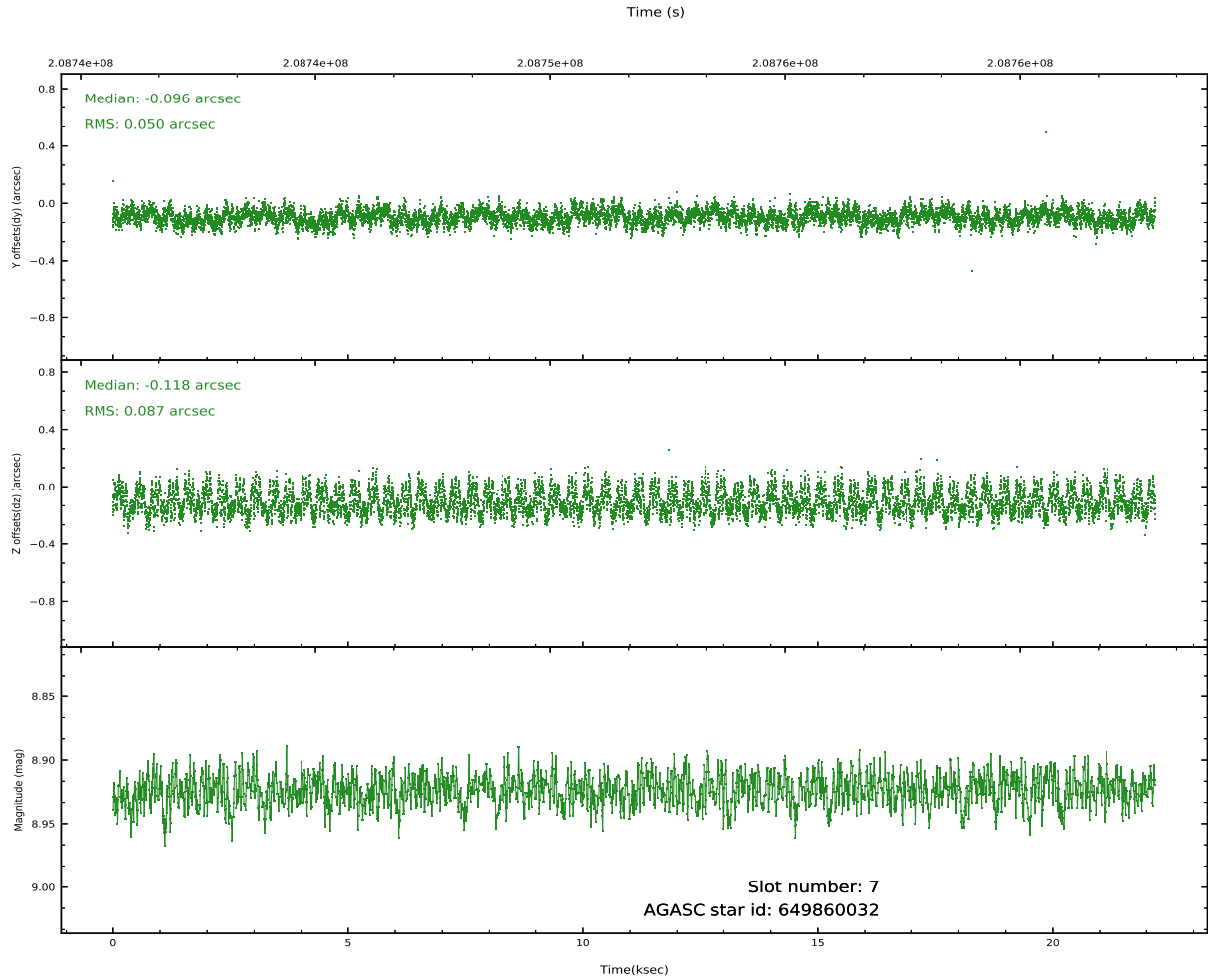
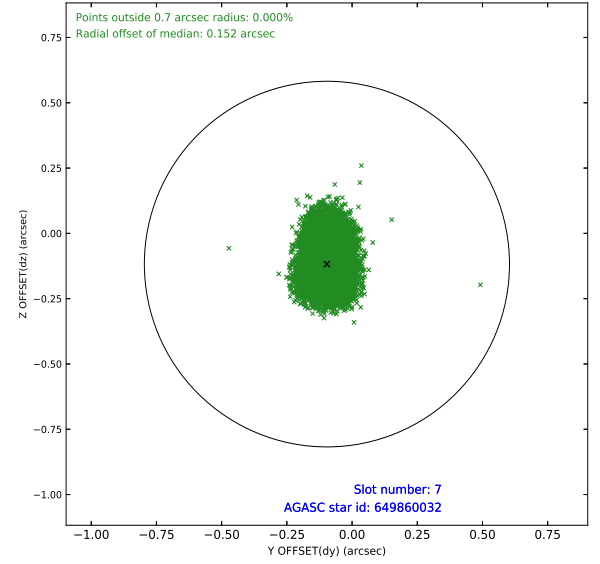
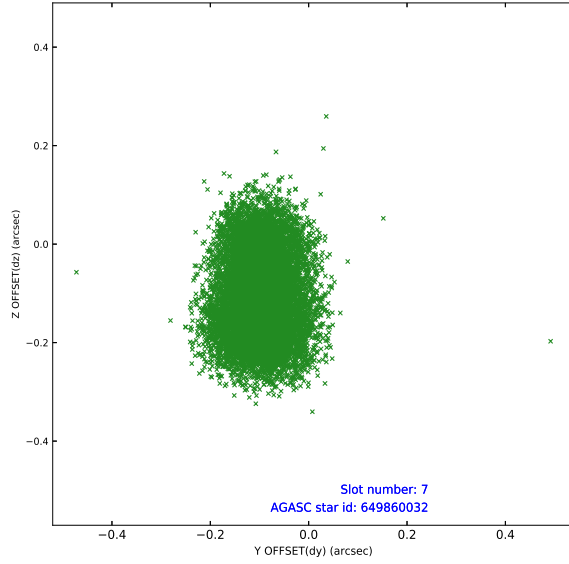
2.4.3 Slot 5



2.4.4 Slot 6

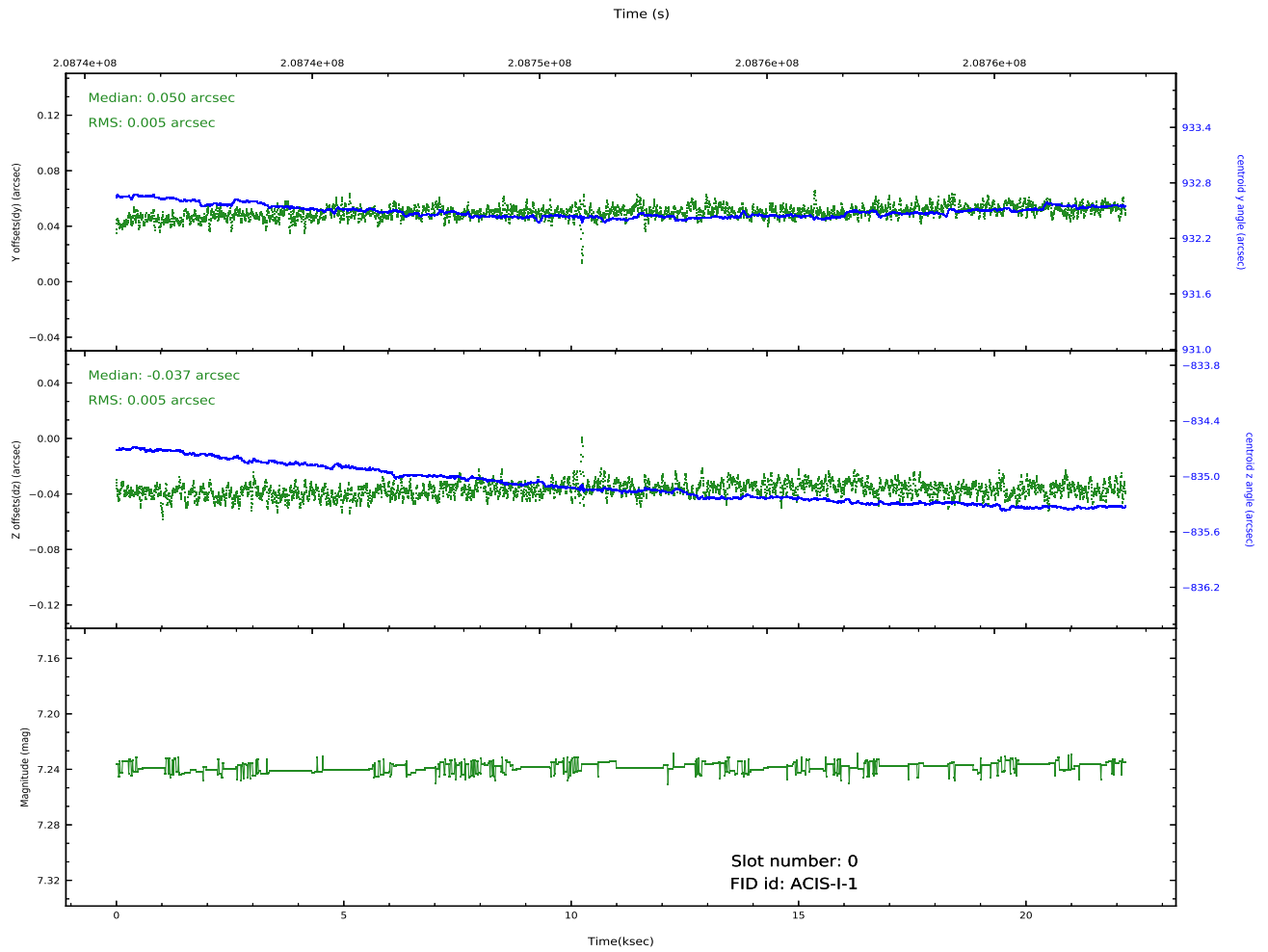
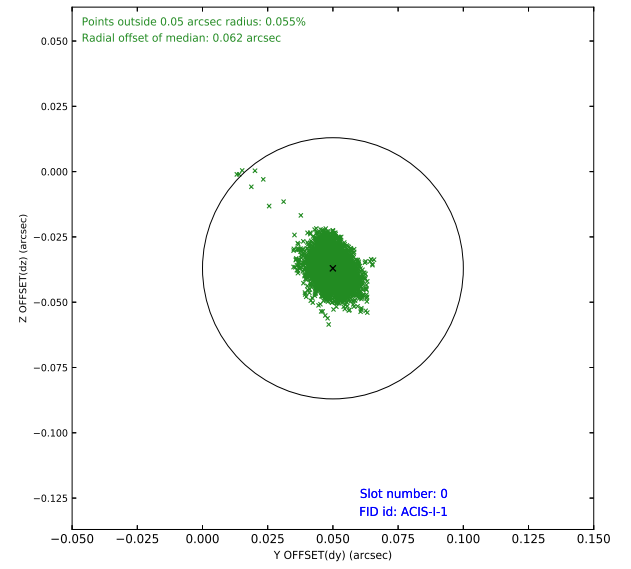
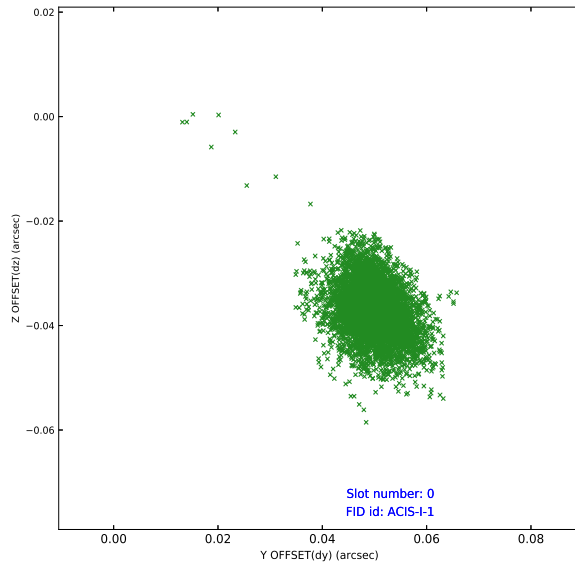


2.4.5 Slot 7

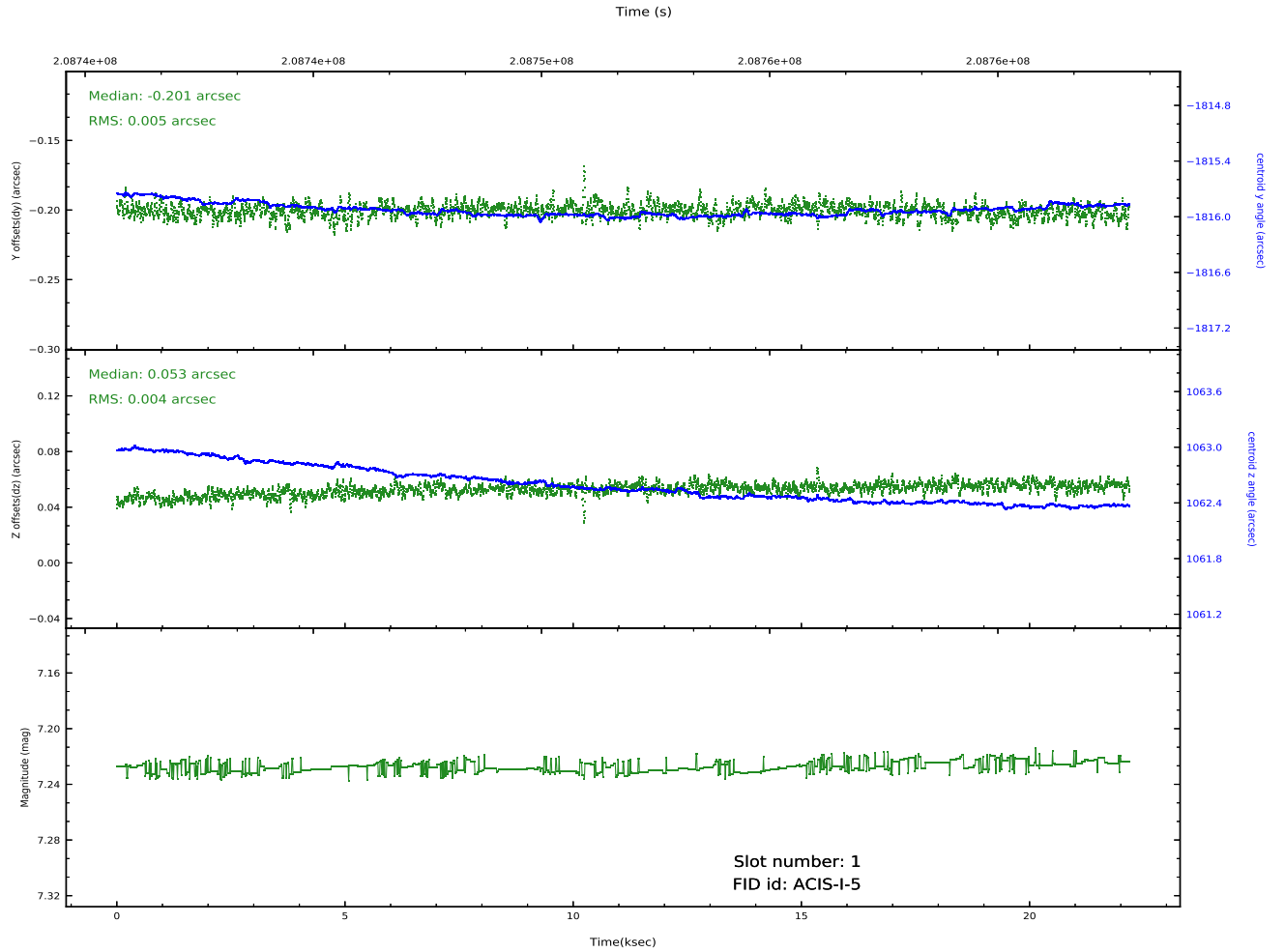
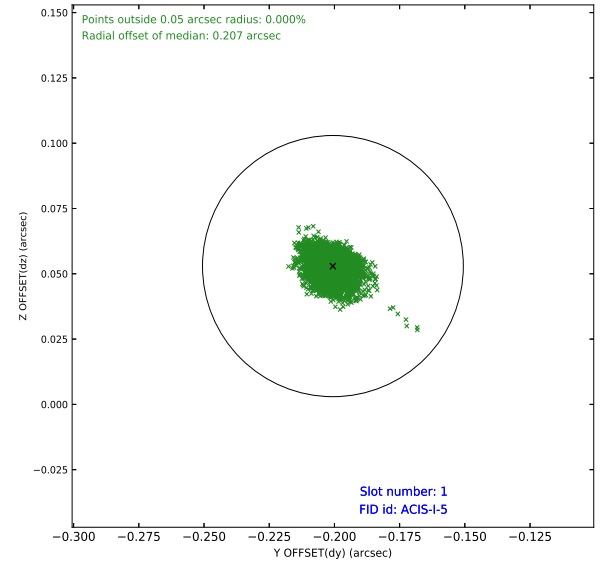
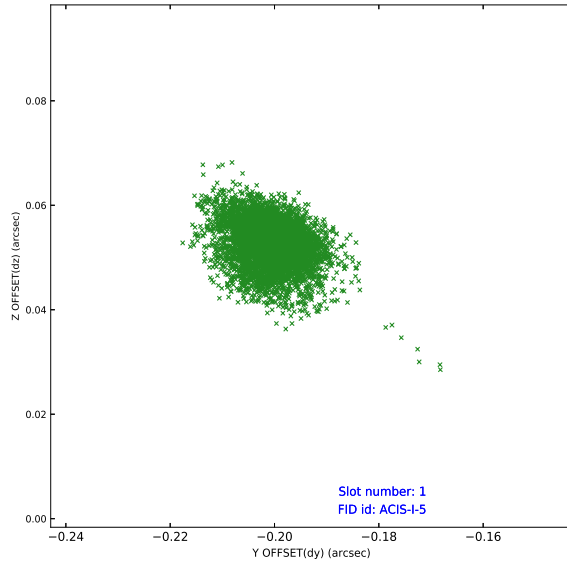


2.5 FID Slots

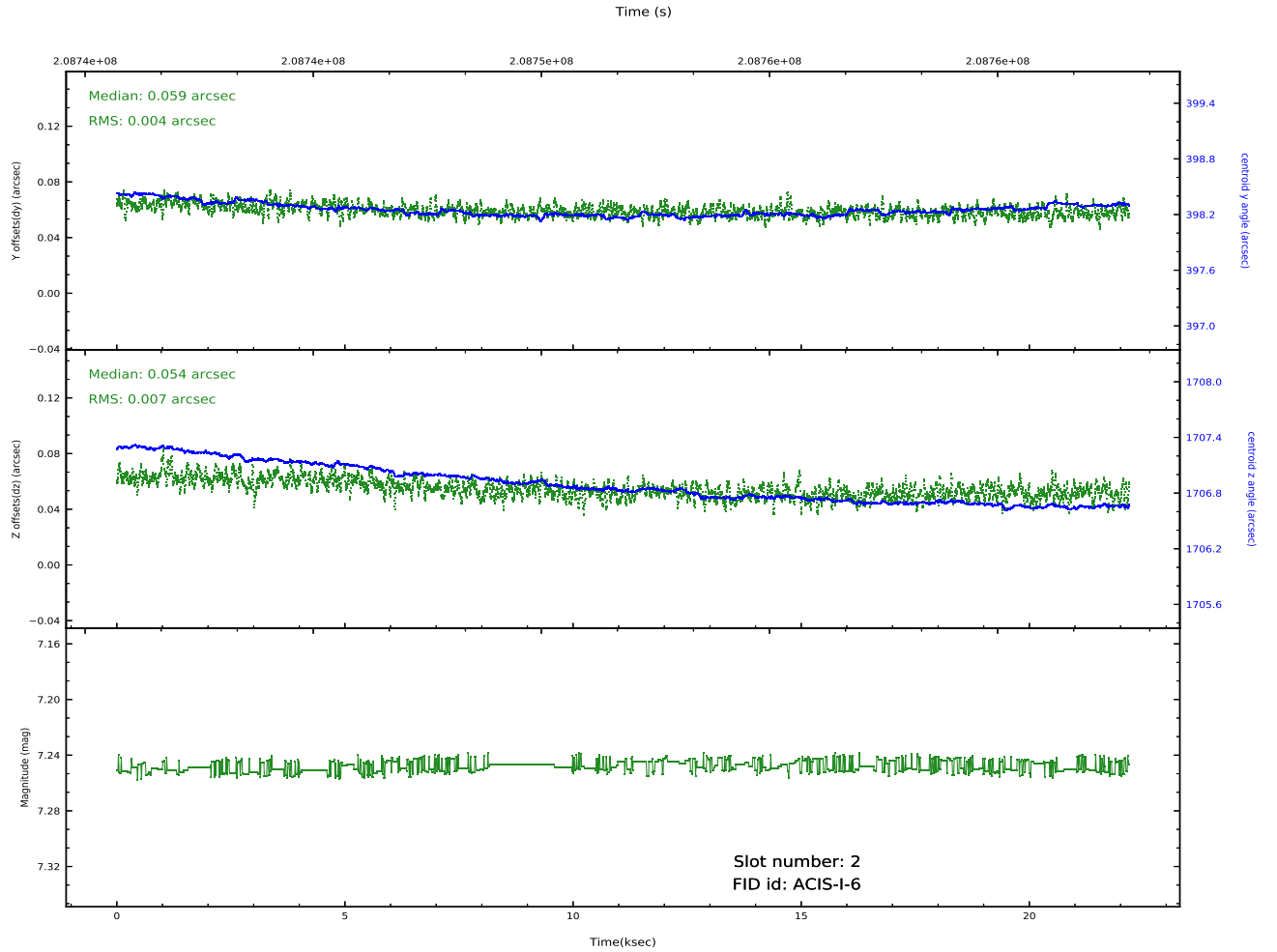
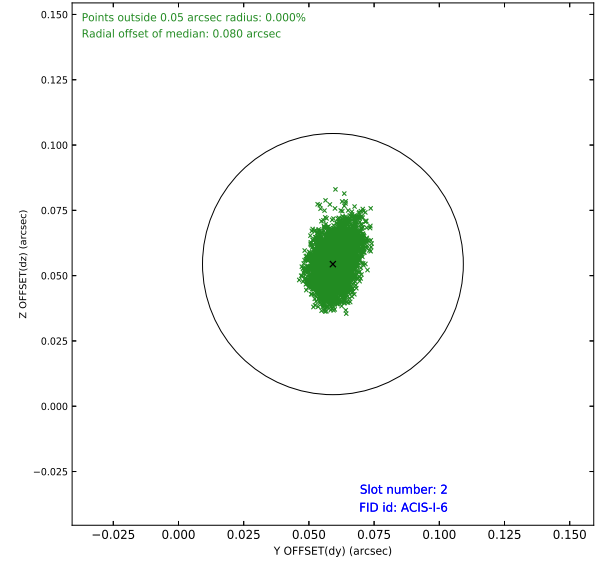
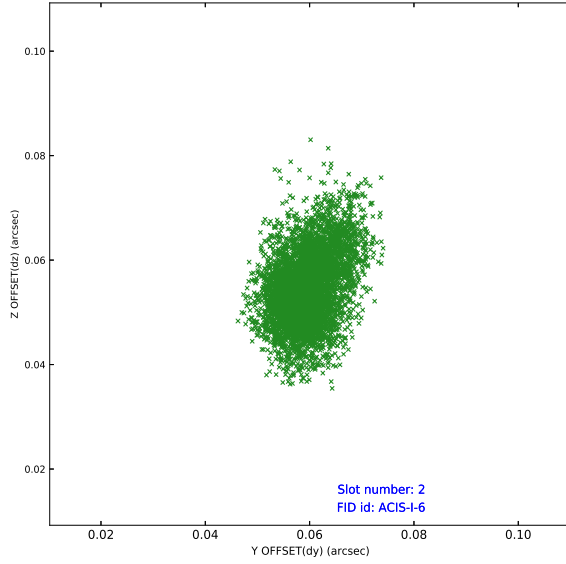
2.5.1 Slot 0



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	21.768

A.2 Comments