

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 6261 - L2 Version 4
Chandra X-Ray Center

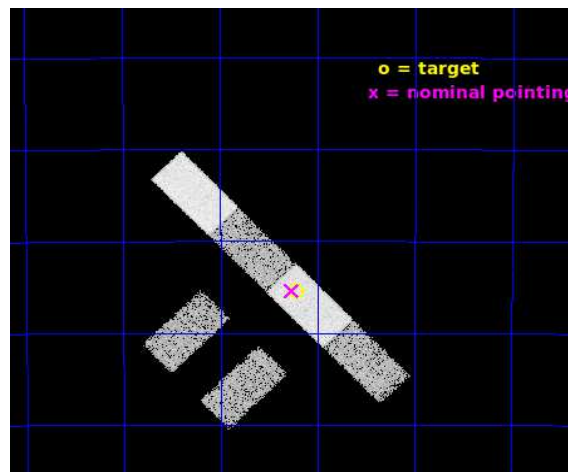
L2 Processing Date : Oct 8 2020

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

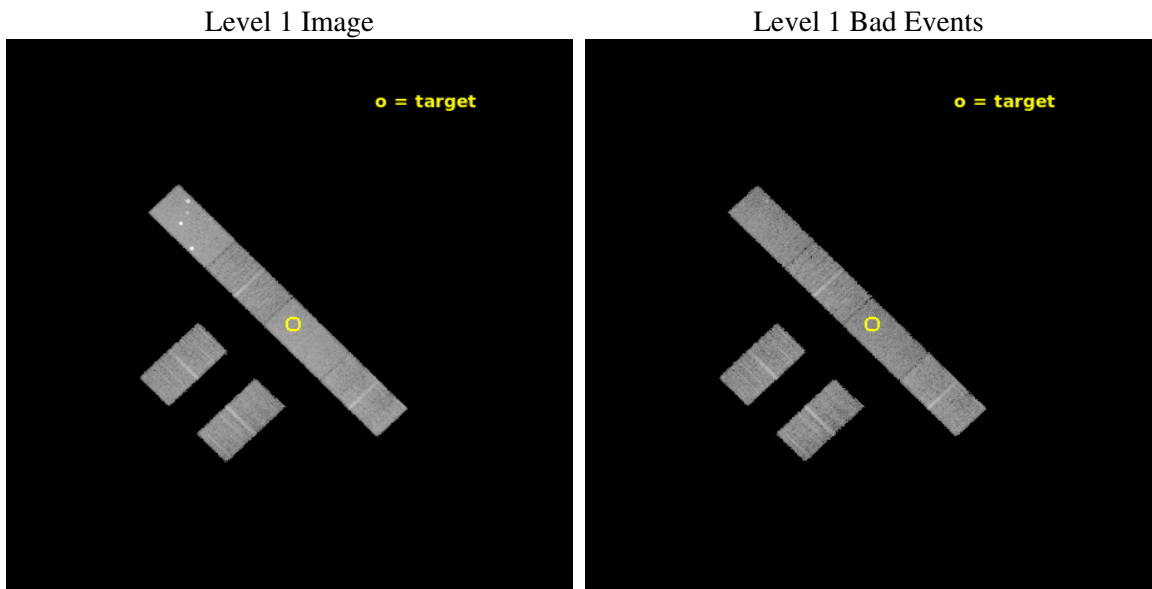
seq_num	400468	Sequence number
obs_id	6261	Observation id
title	Periastron Observations of a Massive Eclipsing Pulsar Binary System	
observer	Dr Maura McLaughlin	Principal investigator
object	PSR J1638-4725	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	249.55375	Observer's specified target RA [deg]
dec_targ	-47.425528	Observer's specified target Dec [deg]
ra_nom	249.56613967992	Nominal RA [deg]
dec_nom	-47.423471341551	Nominal Dec [deg]
roll_nom	45.589114504435	Nominal Roll [deg]
revision	4	Processing version of data
ontime	10180.800067425	Sum of GTIs [s]
livetime	9953.8522364341	Livetime [s]
ontime2	10180.800067425	Sum of GTIs [s]
ontime3	10177.117987454	Sum of GTIs [s]
ontime5	10180.800067425	Sum of GTIs [s]
ontime6	10180.800067425	Sum of GTIs [s]
ontime7	10180.800067425	Sum of GTIs [s]
ontime8	10180.800067425	Sum of GTIs [s]
l2events	68869	Number of level 2 events



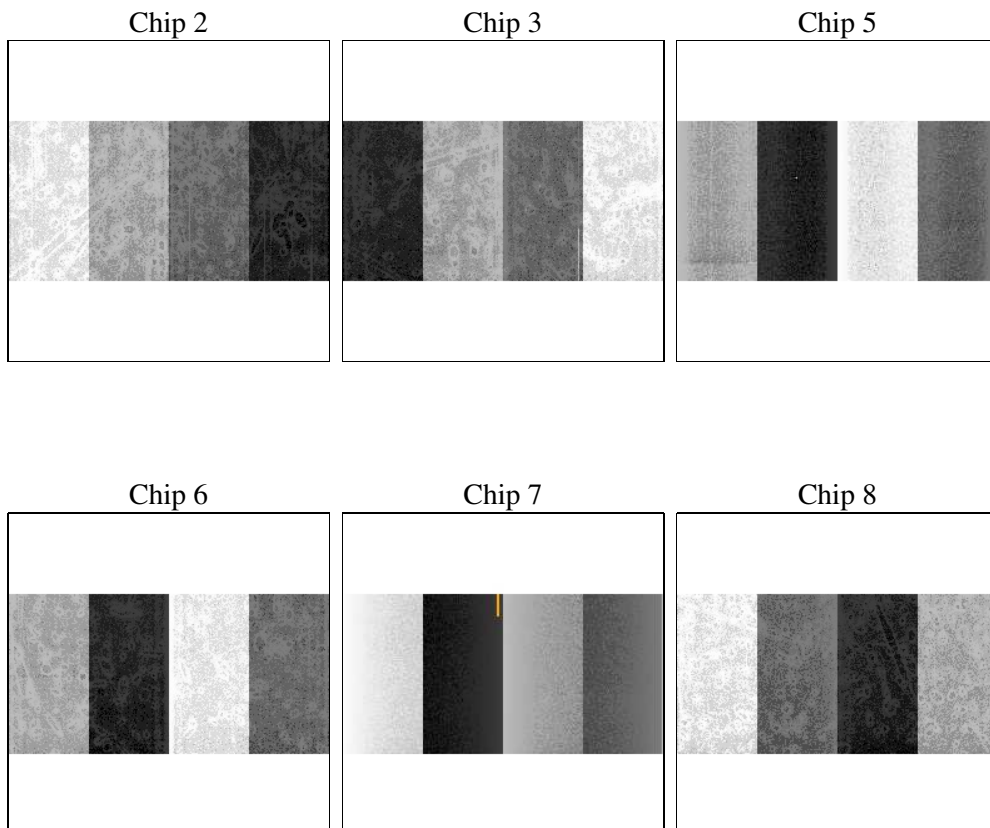
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	10180.800067425	Sum of GTIs [s]
caldsver	4.9.2	 	ontime2	10180.800067425	Sum of GTIs [s]
date	2020-10-08T07:05:09	Date and time of file creation	ontime3	10177.117987454	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	10180.800067425	Sum of GTIs [s]
			ontime6	10180.800067425	Sum of GTIs [s]
			ontime7	10180.800067425	Sum of GTIs [s]
			ontime8	10180.800067425	Sum of GTIs [s]
			l1events	308561	Number of level 1 events

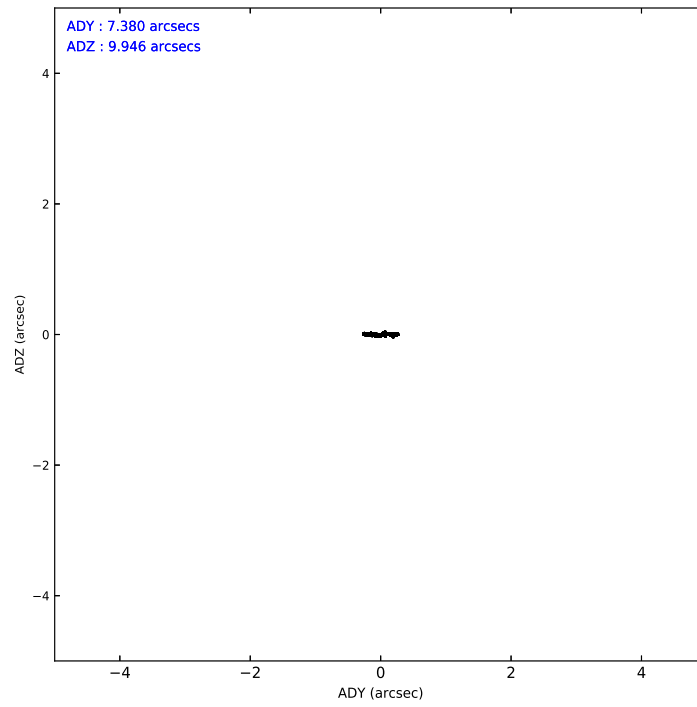
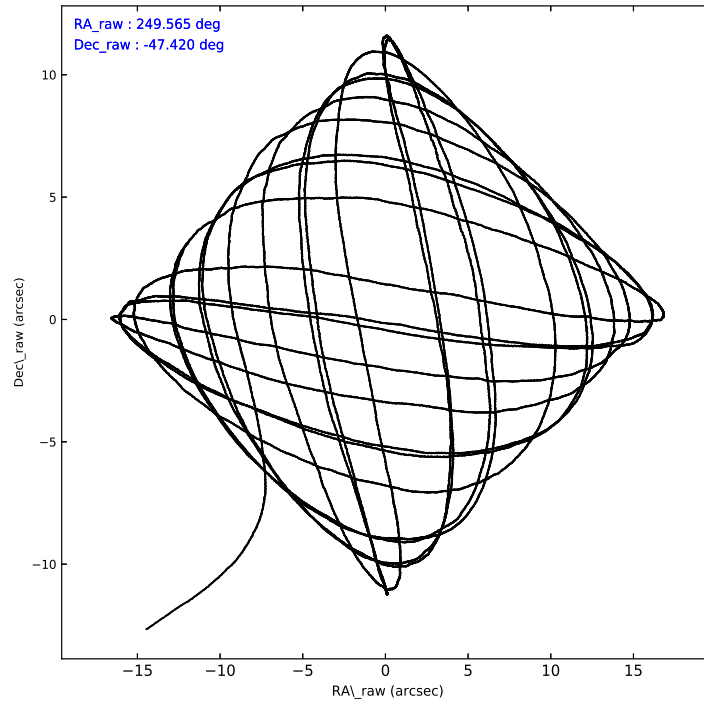
2.1.4 Events

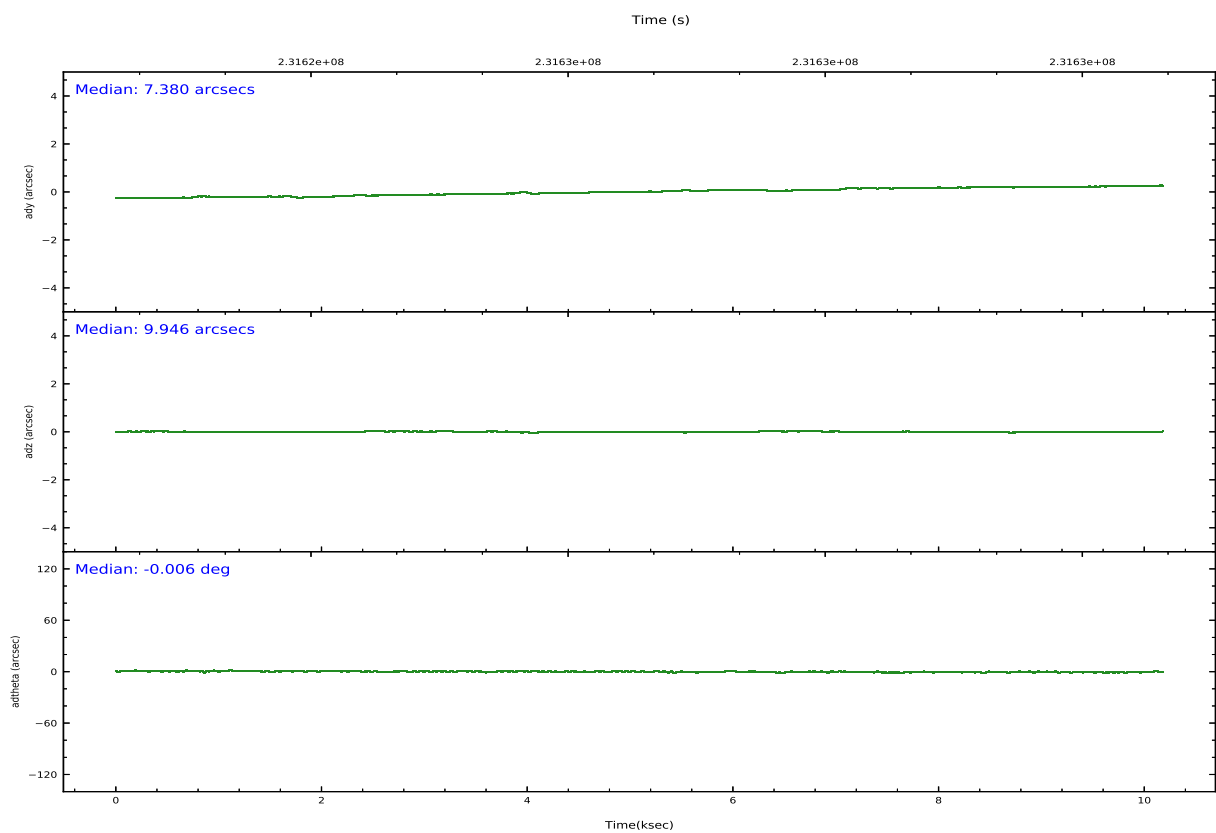
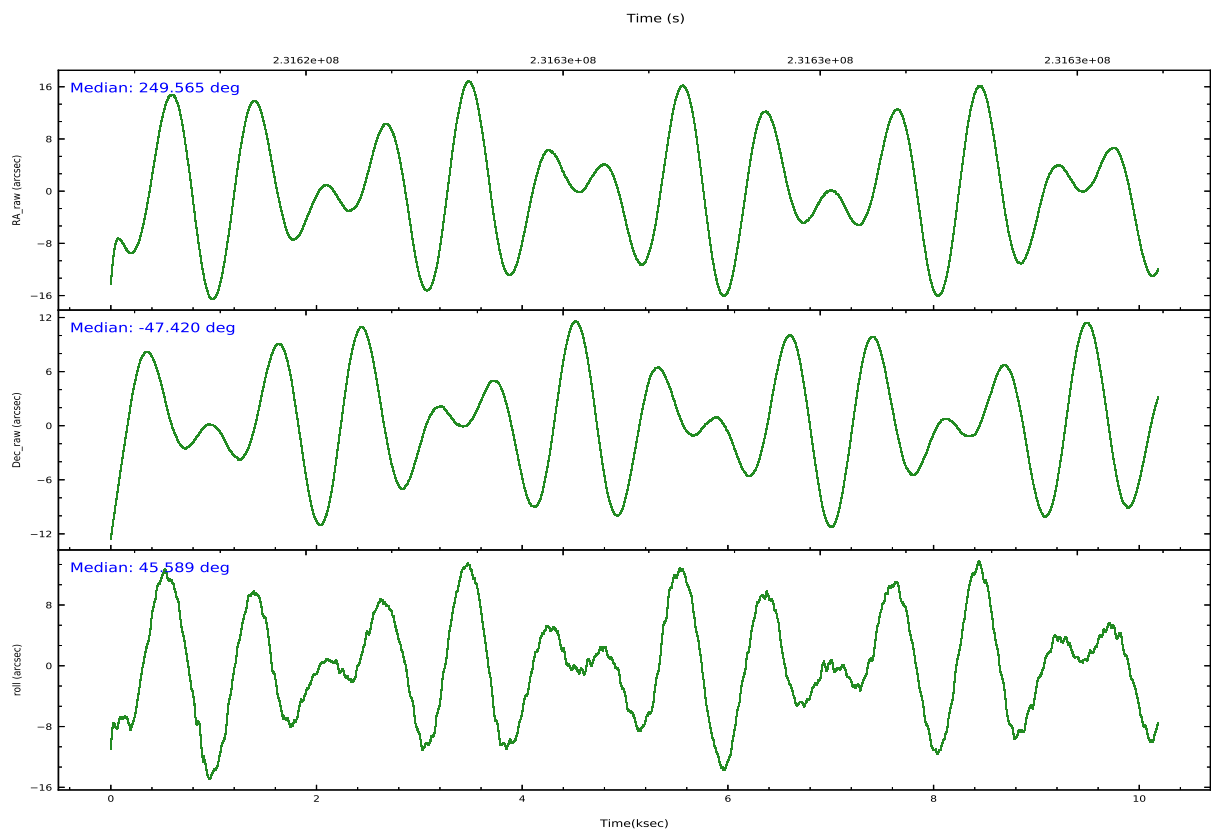
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	44096	41789	70652	43201	54941	53882	grade 0 events	2367	2228	12580	2336	2256	3714
rejected events	38584	36734	32617	37623	31173	42375		5%	5%	17%	5%	4%	6%
rejected %	87%	87%	46%	87%	56%	78%	grade 1 events	17	19	224	21	49	26
								0%	0%	0%	0%	0%	0%
							grade 2 events	1107	877	8399	1039	4794	2510
								2%	2%	11%	2%	8%	4%
							grade 3 events	598	581	1371	606	2339	1258
								1%	1%	1%	1%	4%	2%
							grade 4 events	594	539	1324	608	2277	1166
								1%	1%	1%	1%	4%	2%
							grade 5 events	1648	1699	4848	1897	5159	2425
								3%	4%	6%	4%	9%	4%
							grade 6 events	859	840	14434	1003	12147	2878
								1%	2%	20%	2%	22%	5%
							grade 7 events	36906	35006	27472	35691	25920	39905
								83%	83%	38%	82%	47%	74%

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	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	249.555898	249.56613967992	Subarray requested	CUSTOM	1/2
[deg] Pointing Dec	-47.446384	-47.423471341551	Subarray start row	257	257
[deg] Pointing Roll	45.424910	45.589114504435	Subarray row count	512	512
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	1.8
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	231623286.184000	231622426.79662			
Observation start date	2005-05-04T19:47:02	2005-05-04T19:33:46			
[s] Observation end time (MET)	231633286.184000	231634684.25967			
Observation end date	2005-05-04T22:33:42	2005-05-04T22:58:04			
Read mode	TIMED	TIMED			

2.3 Aspect



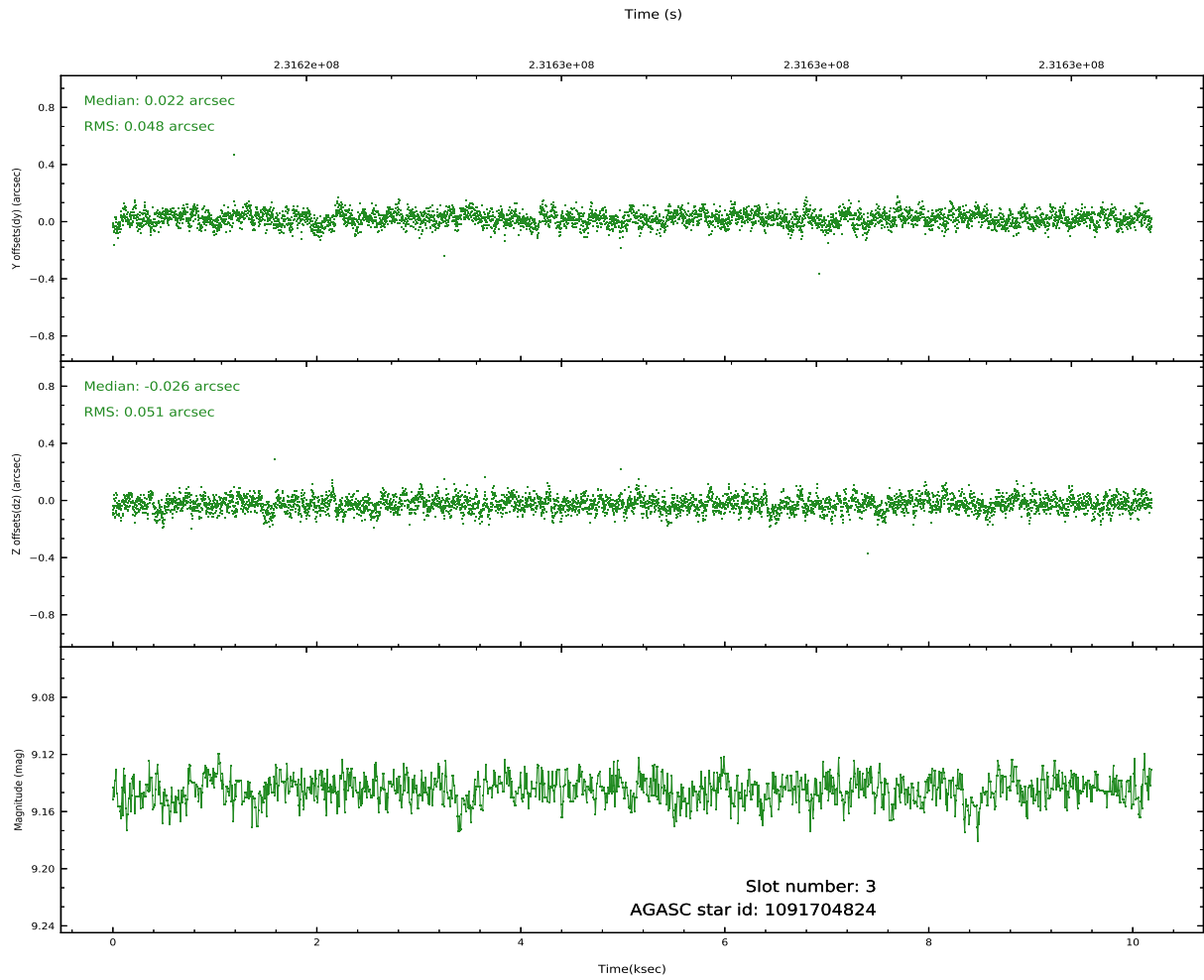
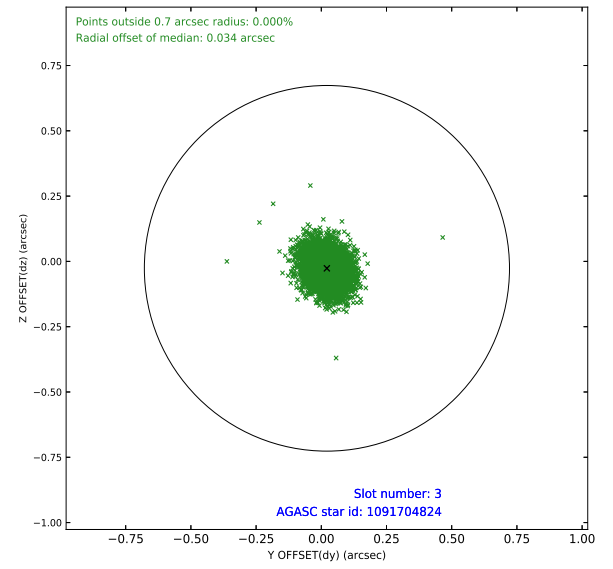
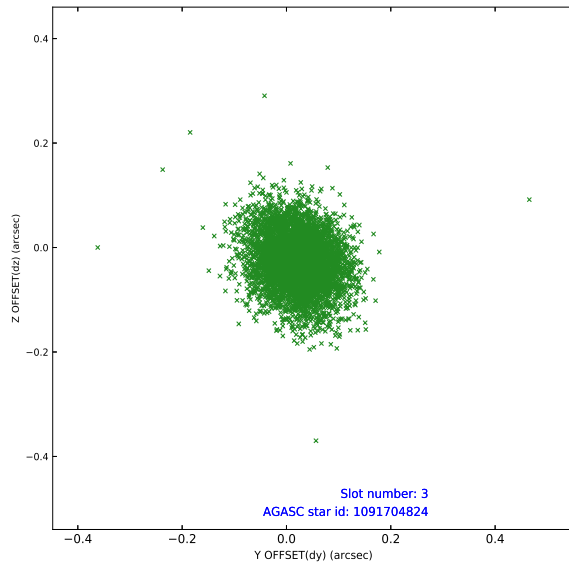


Slot Statistics

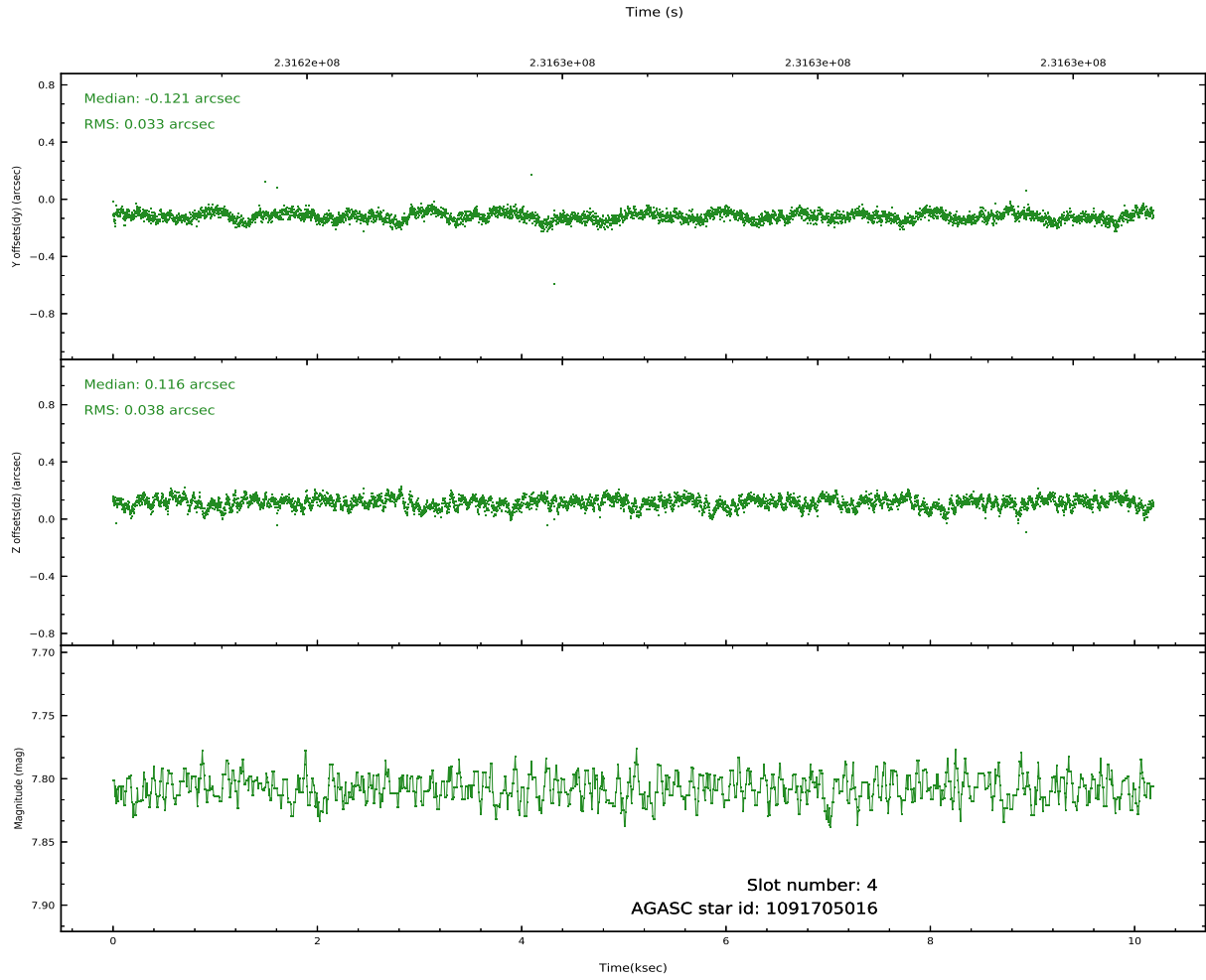
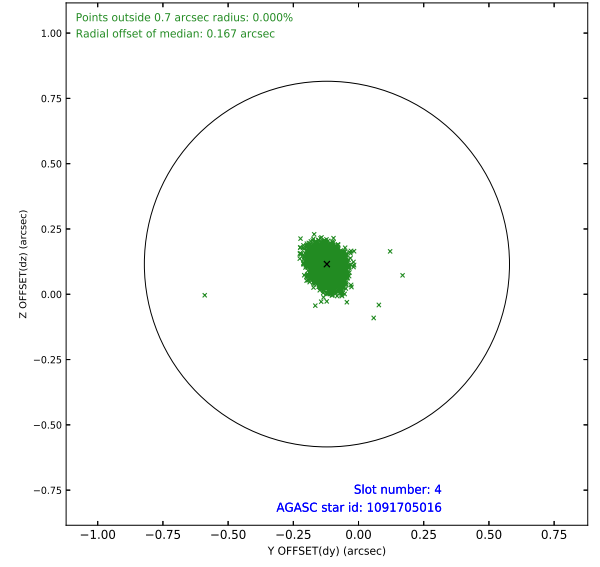
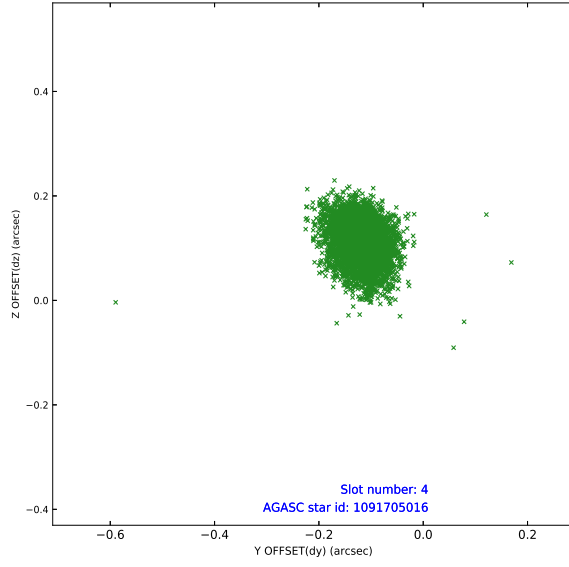
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.11	2484	1.000	-0.077	-0.067	0.007	0.012	0.000000	0.000000	-760.15	-1731
1	FID		ACIS-S-4	7.21	2484	1.000	0.157	0.055	0.007	0.012	0.000000	0.000000	2153.05	176
2	FID		ACIS-S-5	7.23	2484	1.000	-0.111	0.020	0.008	0.014	0.000000	0.000000	-1812.43	170
3	GUIDE	used	1091704824	9.14	4960	1.000	0.022	-0.026	0.073	0.122	249.173141	-47.336759	-375.60	940
4	GUIDE	used	1091705016	7.81	4969	1.000	-0.121	0.116	0.053	0.087	249.888030	-47.558250	278.43	-858
5	GUIDE	used	1091706216	9.04	4967	1.000	0.063	-0.078	0.082	0.129	248.520013	-47.617493	-2214.67	1346
6	GUIDE	used	1091709408	9.21	4964	1.000	-0.001	-0.039	0.085	0.135	249.304466	-47.312562	-88.46	774
7	GUIDE	used	1091709768	7.71	4968	1.000	0.038	0.027	0.060	0.093	249.435228	-47.706899	-873.07	-450

2.4 Star Slots

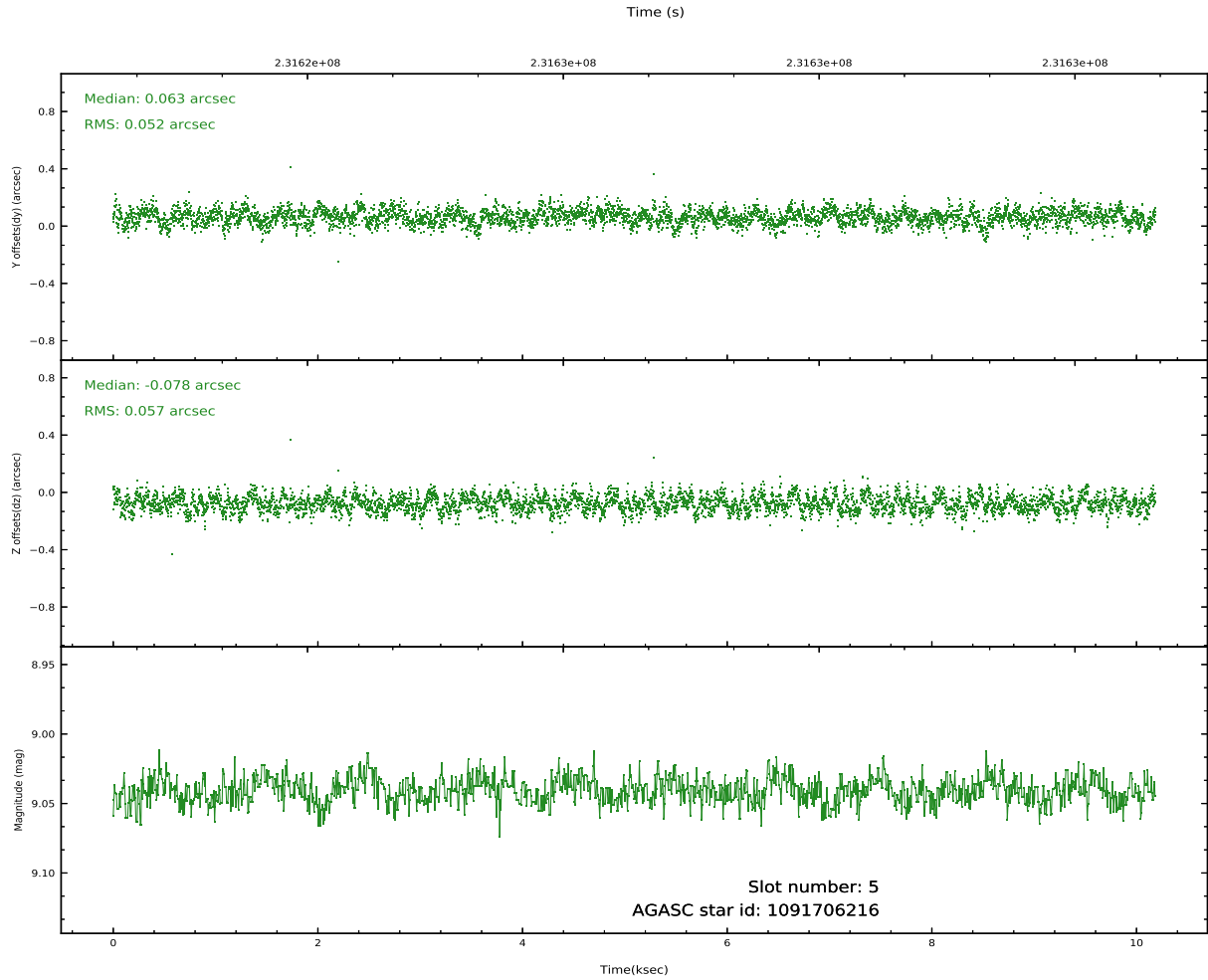
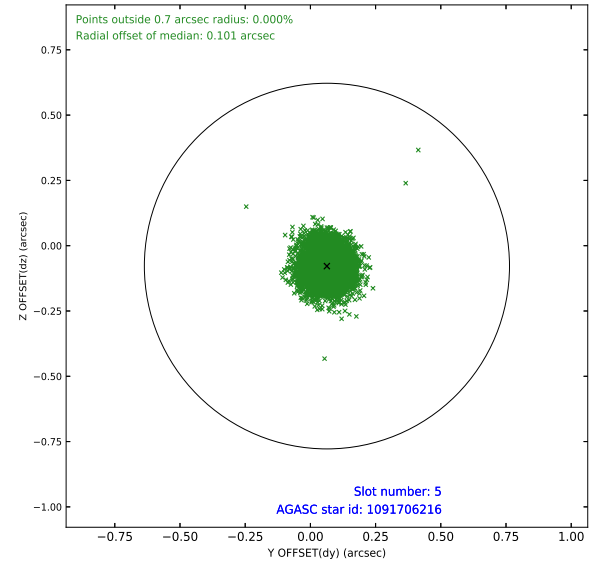
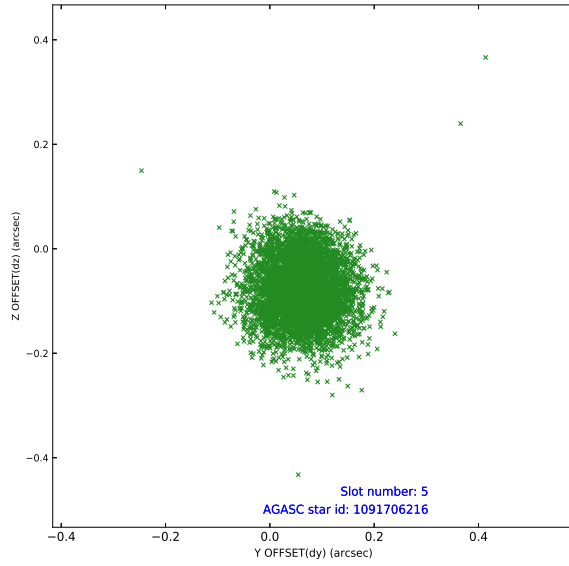
2.4.1 Slot 3



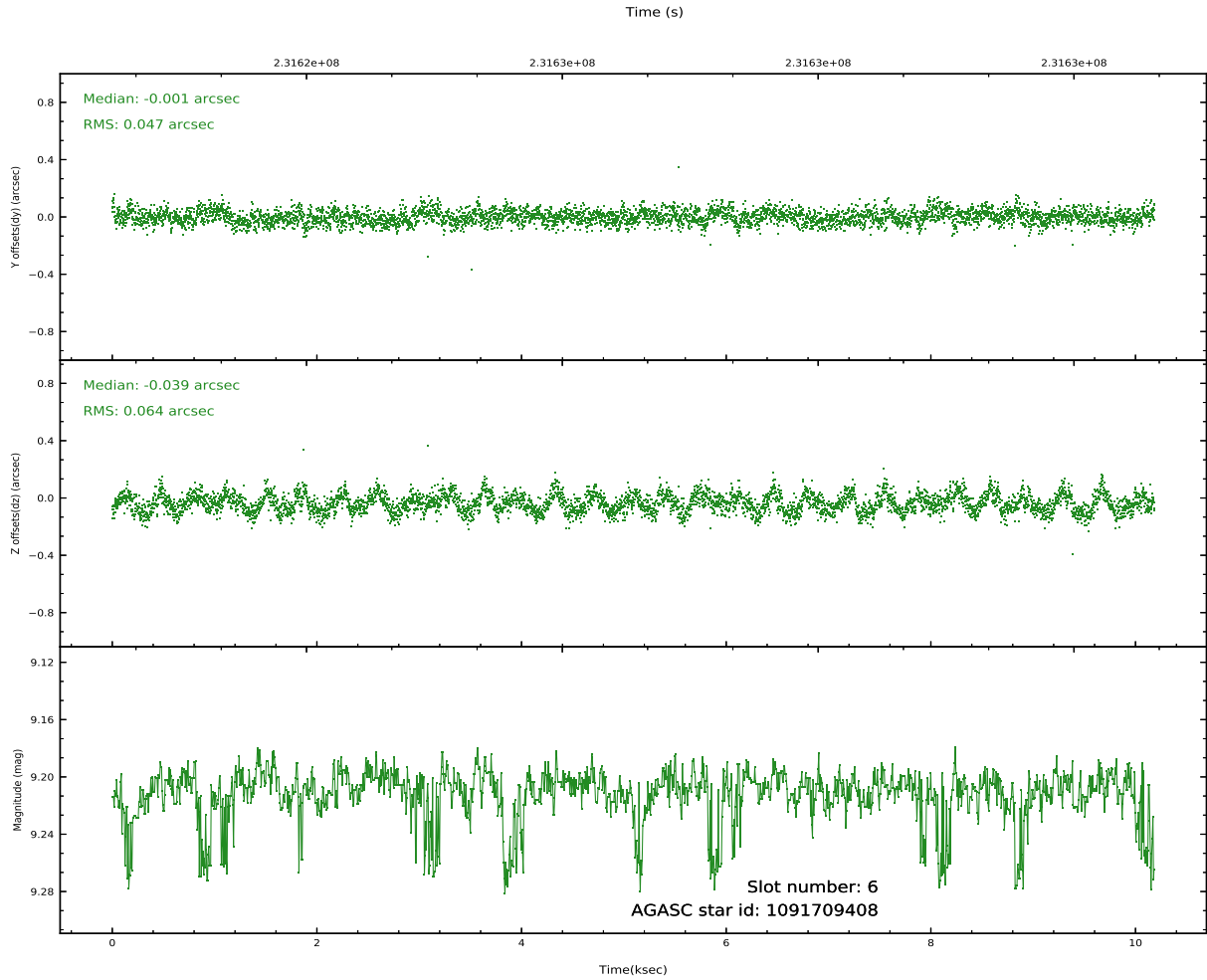
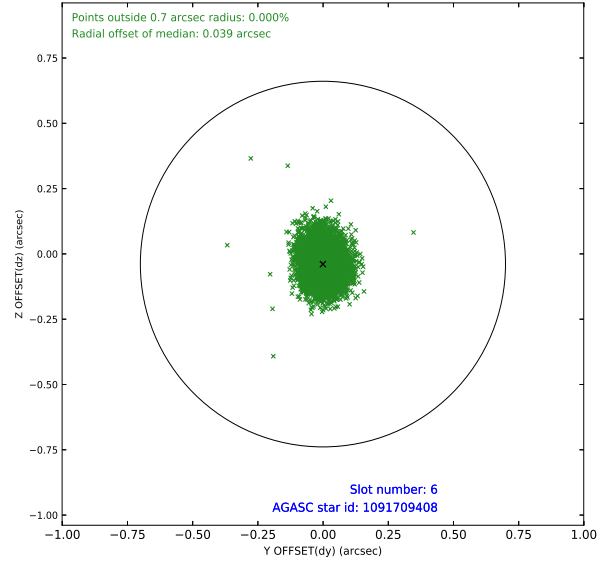
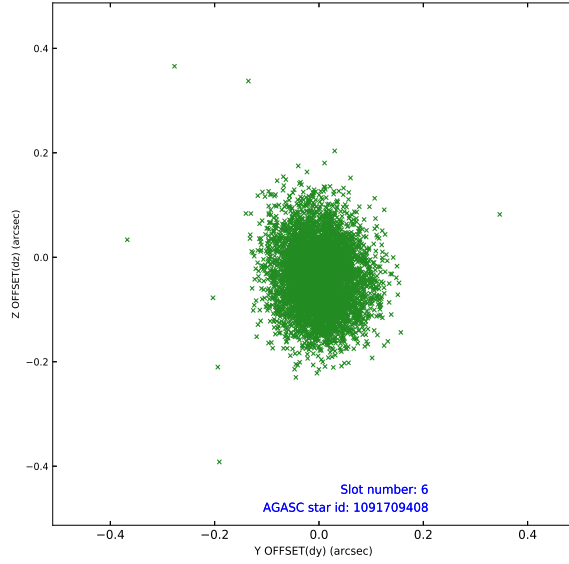
2.4.2 Slot 4



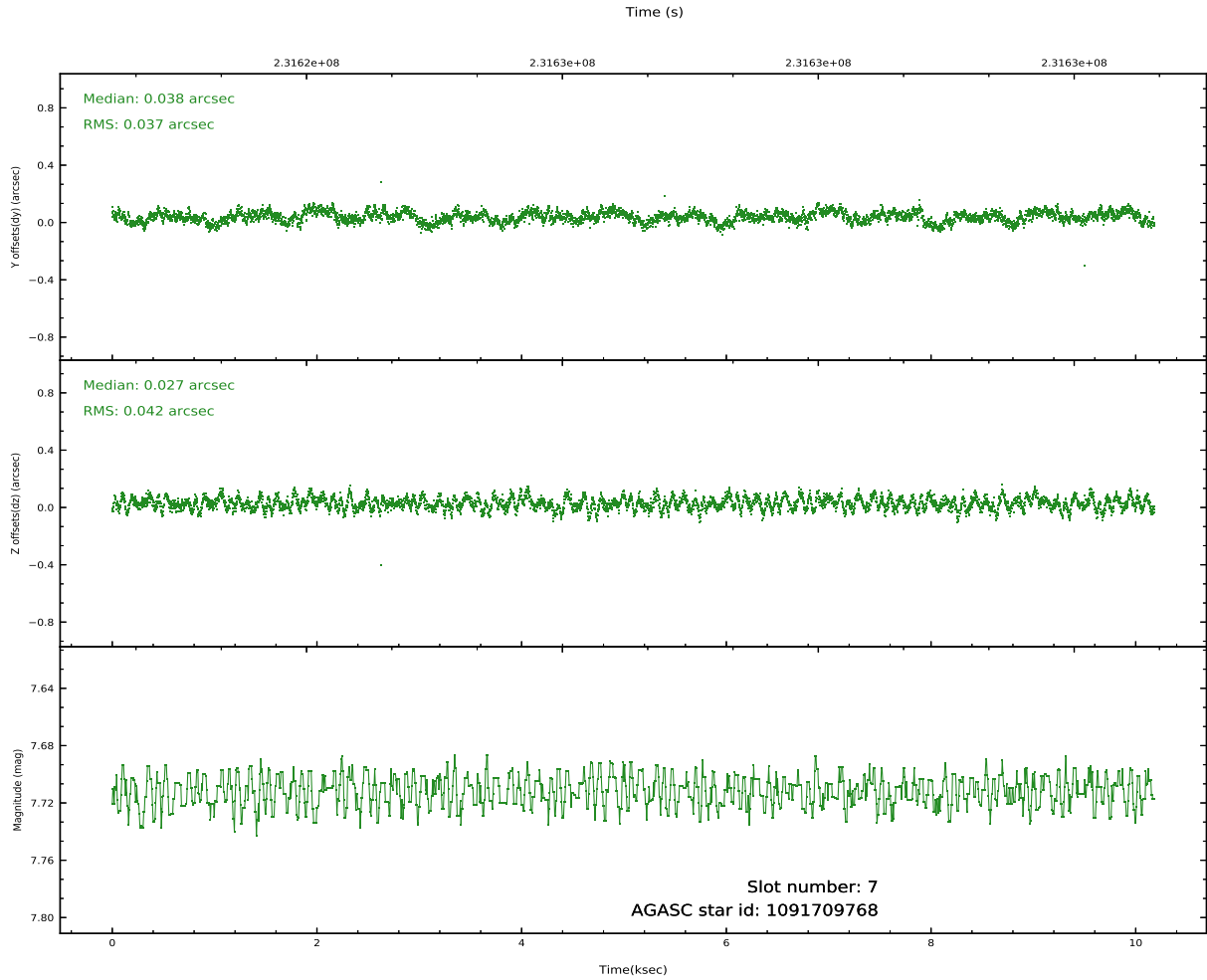
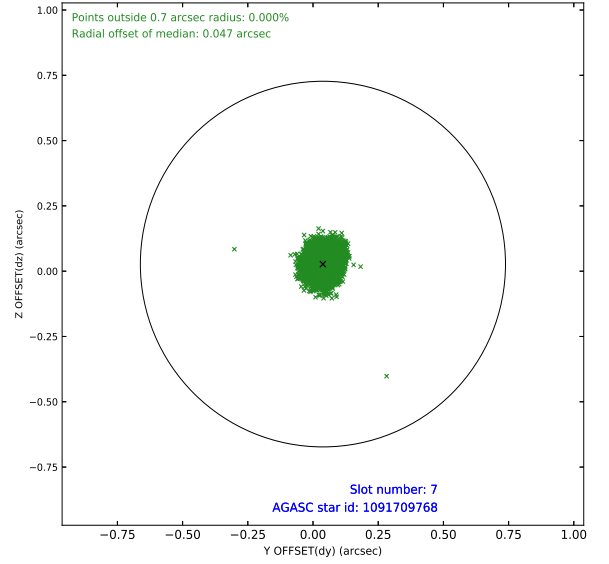
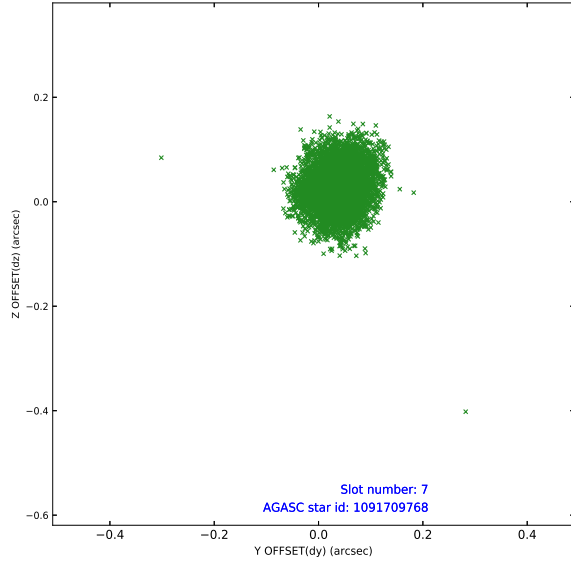
2.4.3 Slot 5



2.4.4 Slot 6

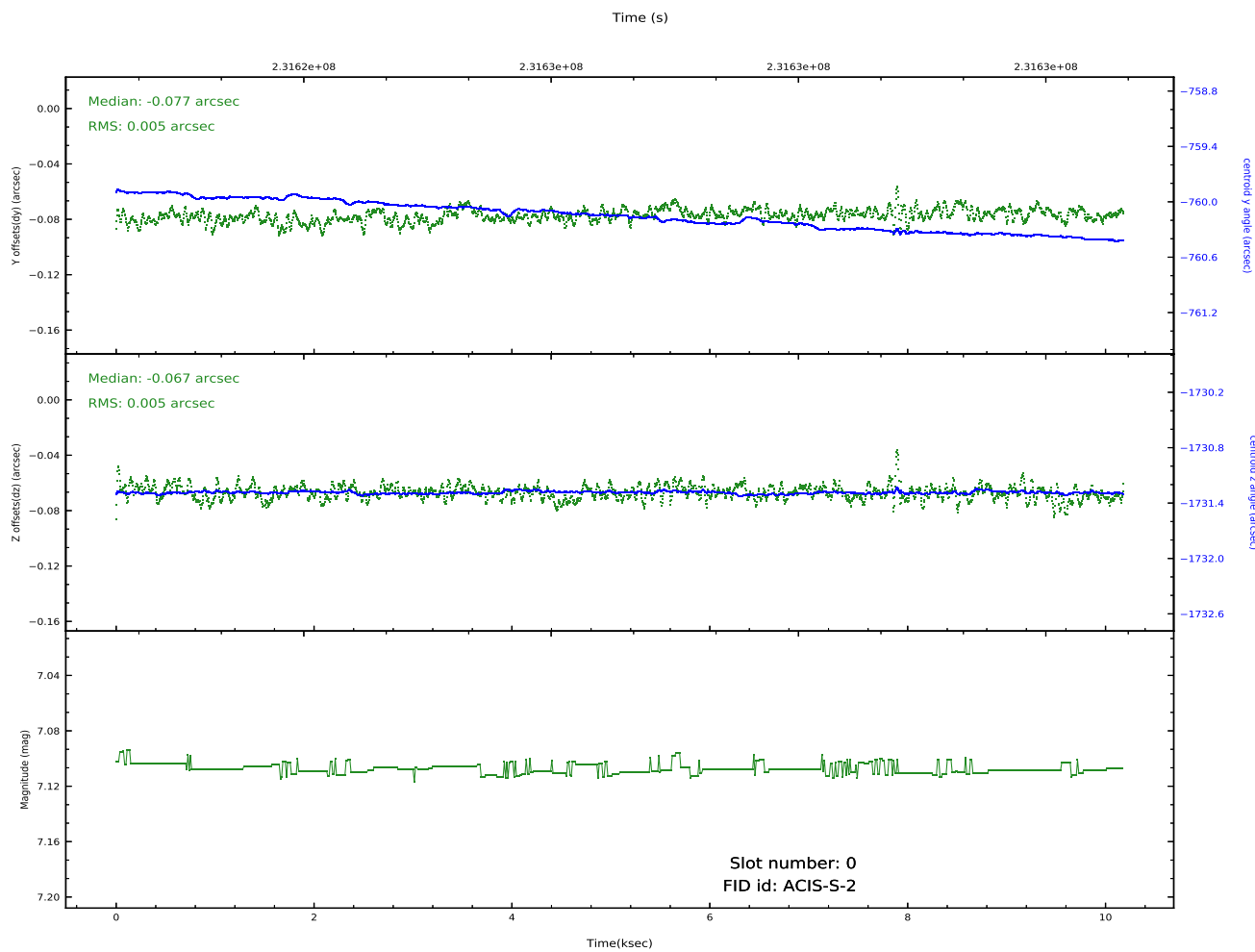
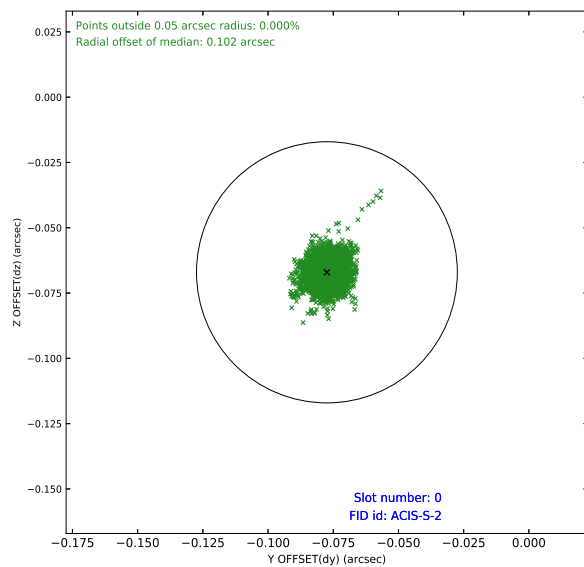
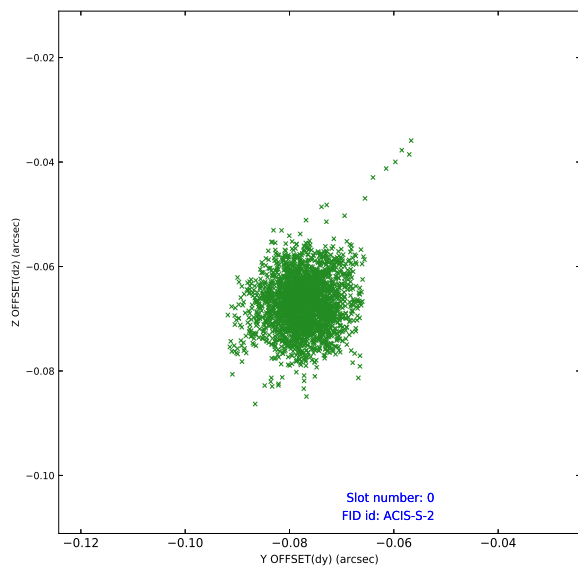


2.4.5 Slot 7

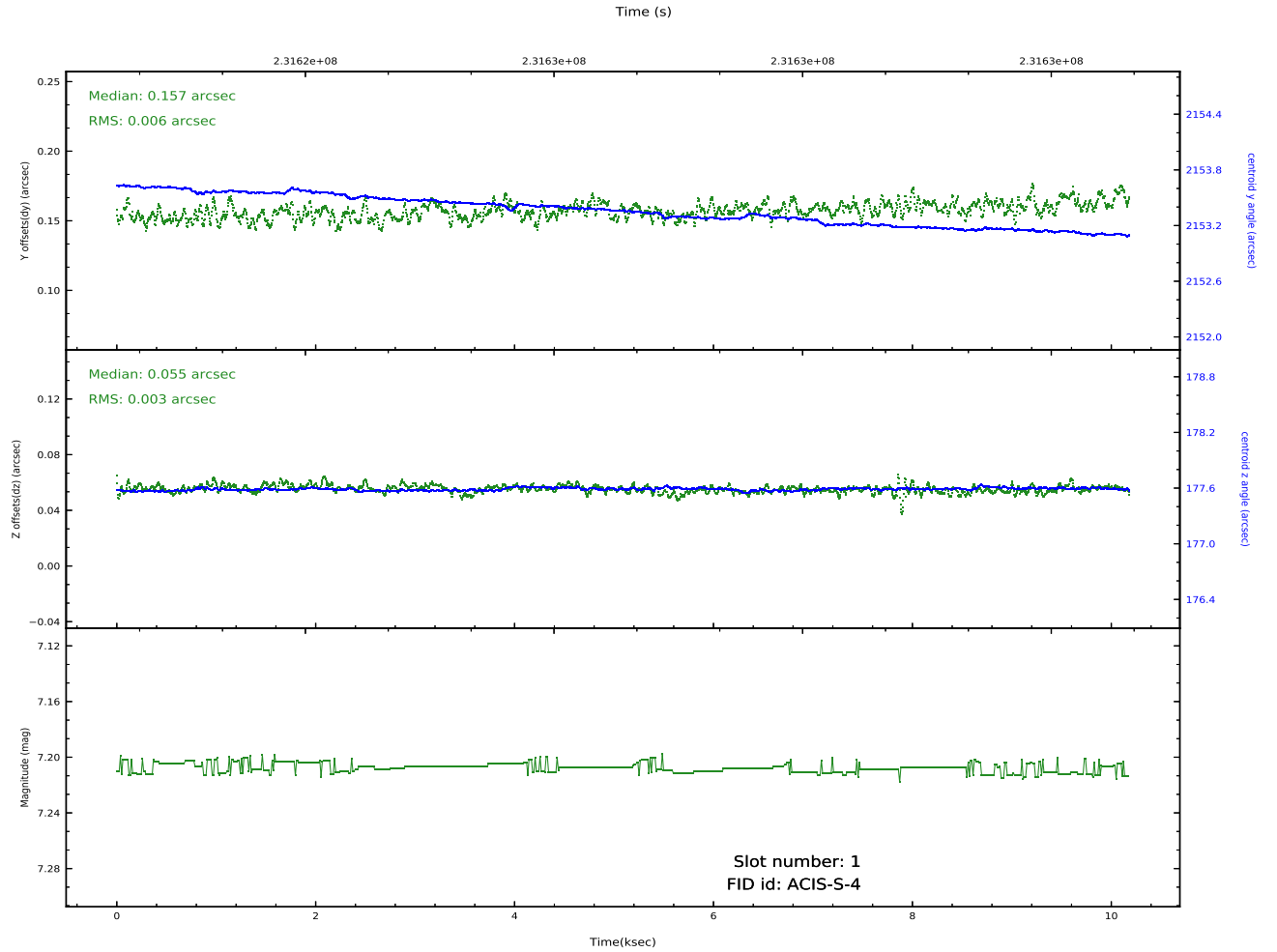
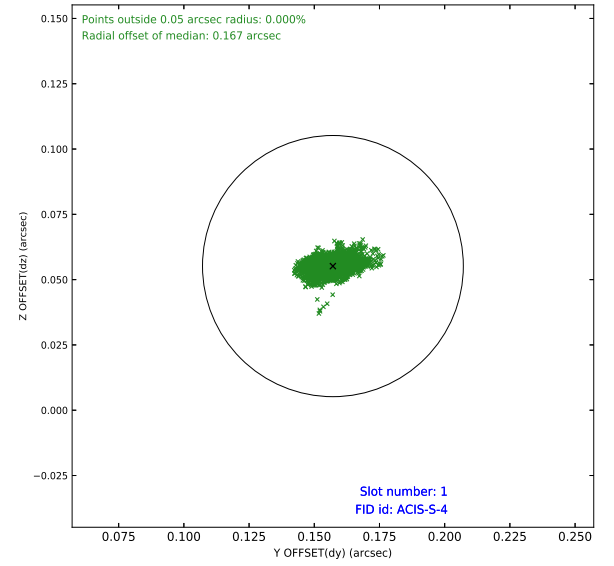
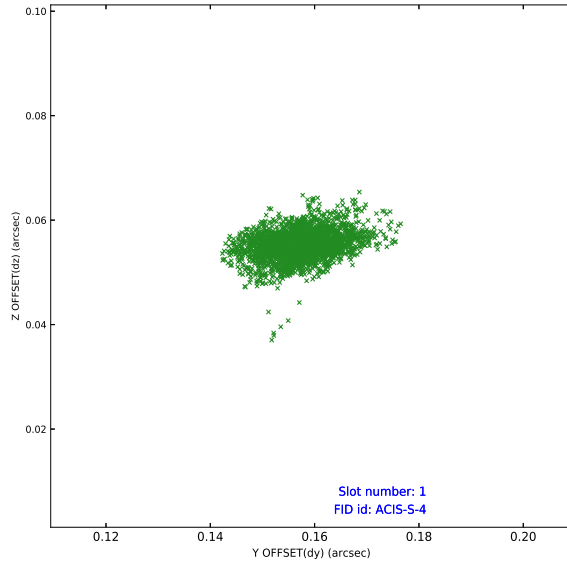


2.5 FID Slots

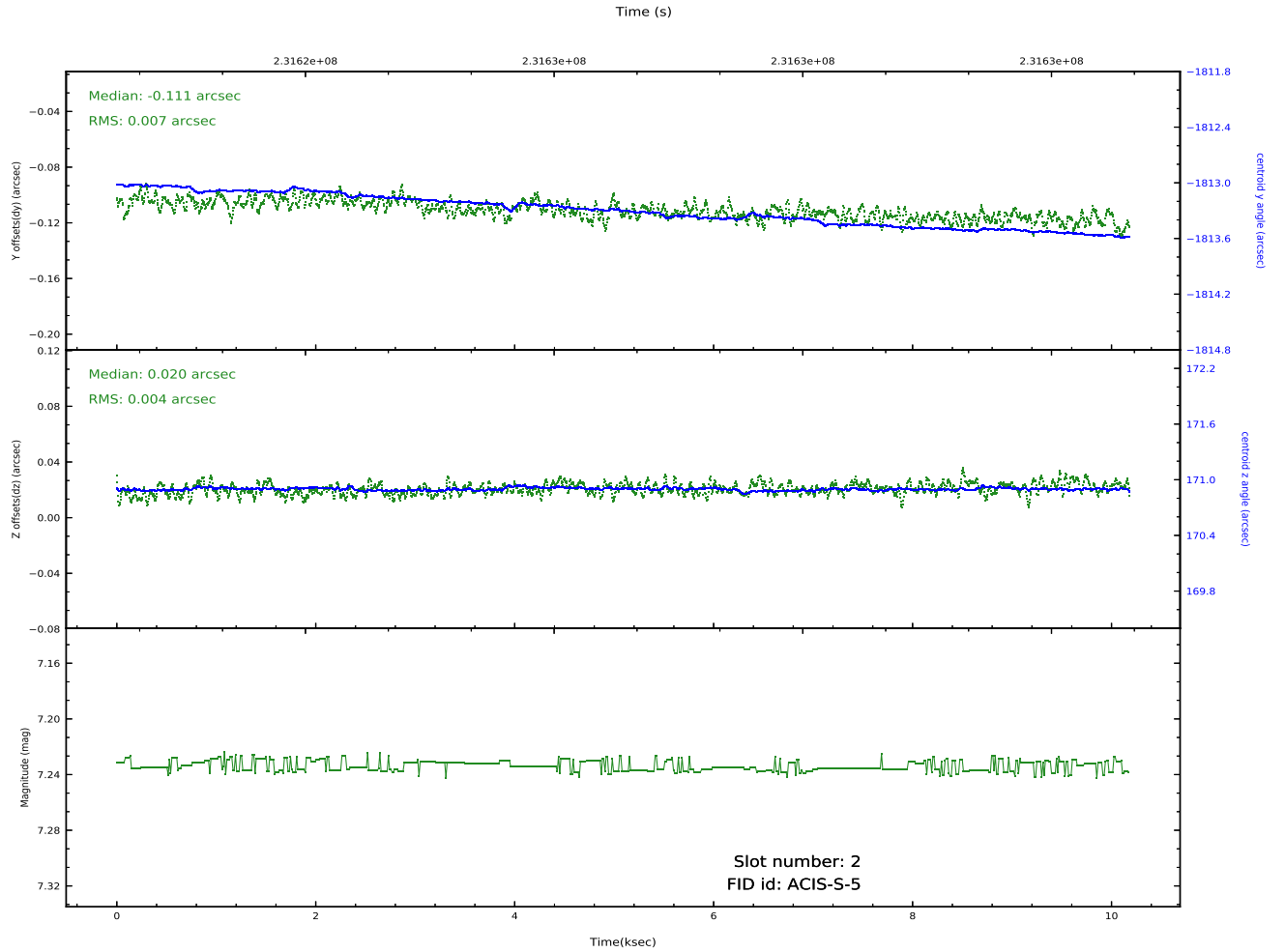
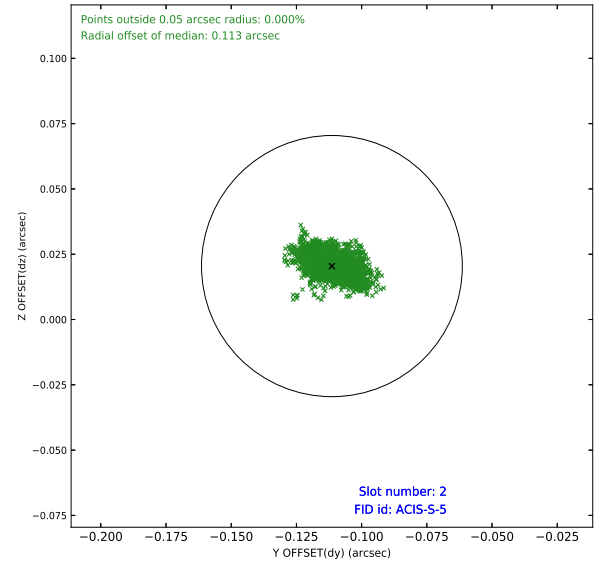
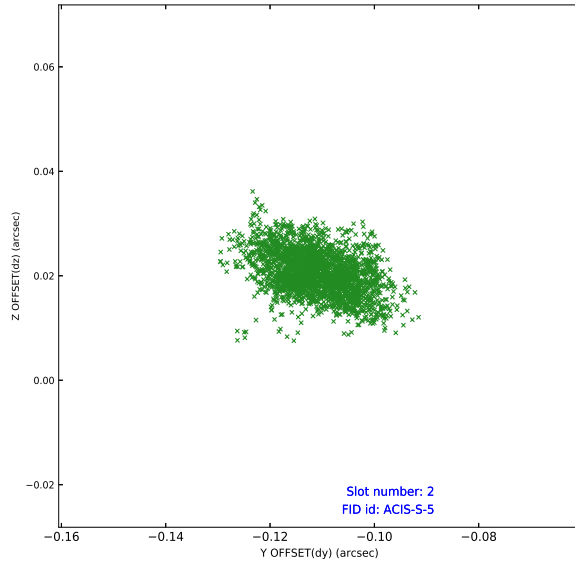
2.5.1 Slot 0



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)	2020.10.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.1808

A.2 Comments