

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 6657 - L2 Version 3
Chandra X-Ray Center

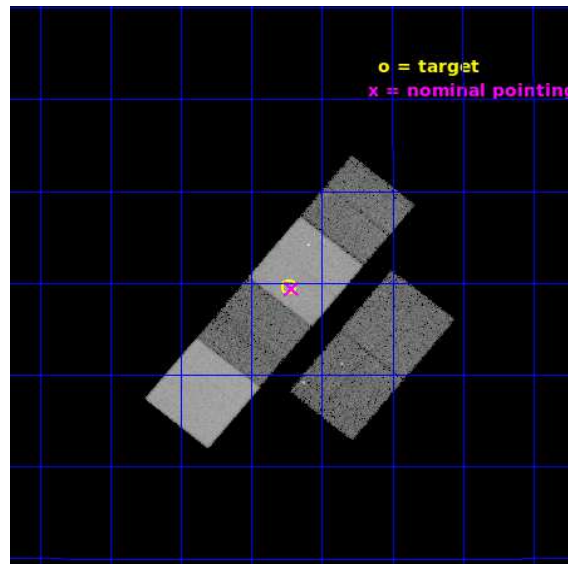
L2 Processing Date : Oct 11 2020

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

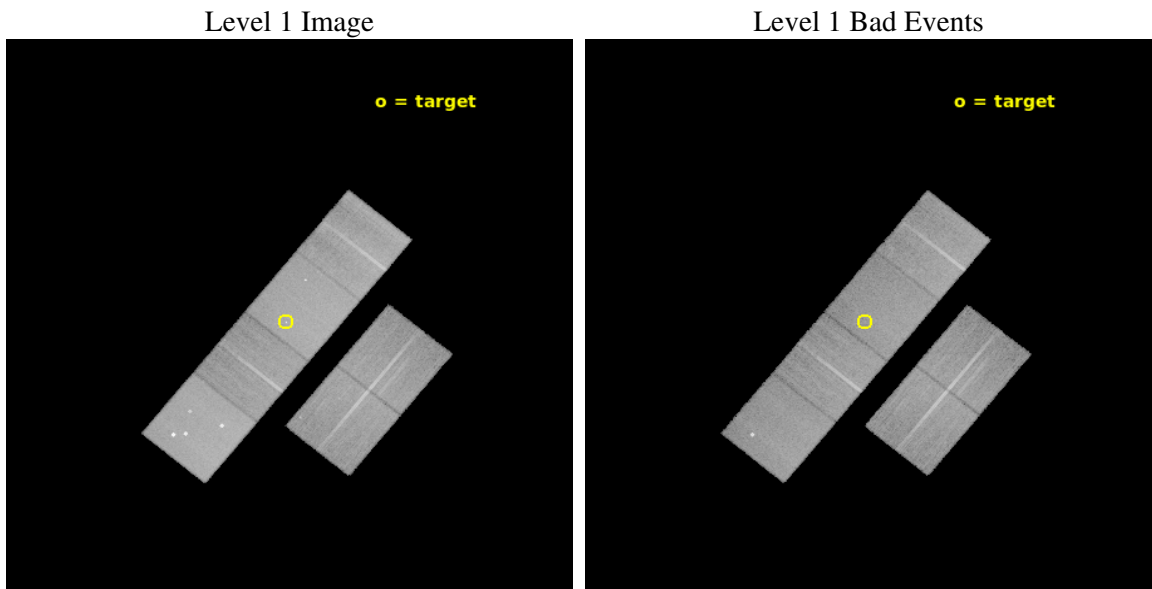
seq_num	500611	Sequence number
obs_id	6657	Observation id
title	The old pulsar B1929+10 and its surroundings	Proposal title
observer	Gordon Garmire	Principal investigator
object	PSR B1929+10	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	293.058096	Observer's specified target RA [deg]
dec_targ	10.992417	Observer's specified target Dec [deg]
ra_nom	293.05331238388	Nominal RA [deg]
dec_nom	10.989987081057	Nominal Dec [deg]
roll_nom	309.16481737713	Nominal Roll [deg]
revision	3	Processing version of data
ontime	21164.799921155	Sum of GTIs [s]
livetime	20896.798480641	Livetime [s]
ontime2	21164.799921155	Sum of GTIs [s]
ontime3	21164.799921155	Sum of GTIs [s]
ontime5	21164.799921155	Sum of GTIs [s]
ontime6	21161.558980763	Sum of GTIs [s]
ontime7	21164.799921155	Sum of GTIs [s]
ontime8	21164.799921155	Sum of GTIs [s]
l2events	277509	Number of level 2 events



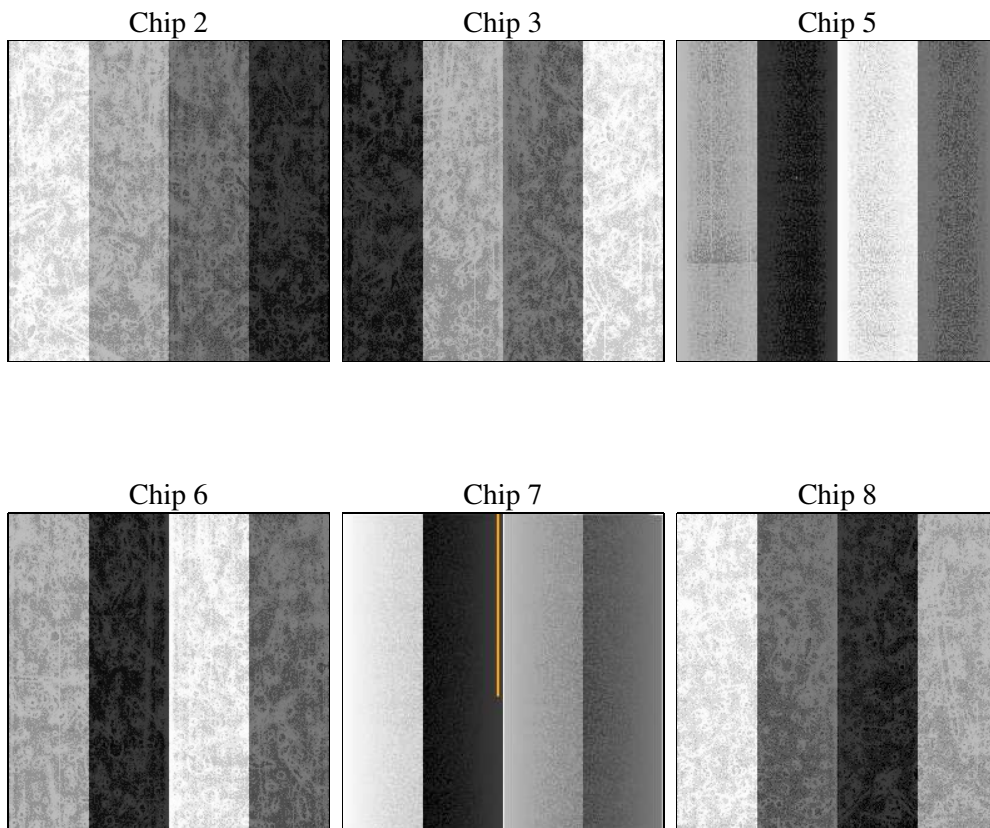
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	21000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	21164.799921155	Sum of GTIs [s]
caldsver	4.9.2	 	ontime2	21164.799921155	Sum of GTIs [s]
date	2020-10-12T02:37:06	Date and time of file creation	ontime3	21164.799921155	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	21164.799921155	Sum of GTIs [s]
			ontime6	21161.558980763	Sum of GTIs [s]
			ontime7	21164.799921155	Sum of GTIs [s]
			ontime8	21164.799921155	Sum of GTIs [s]
			l1events	1220459	Number of level 1 events

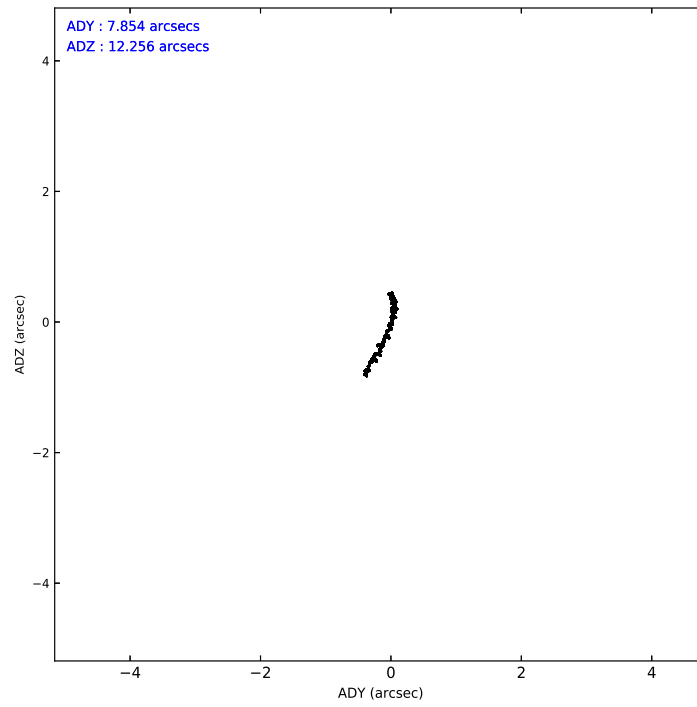
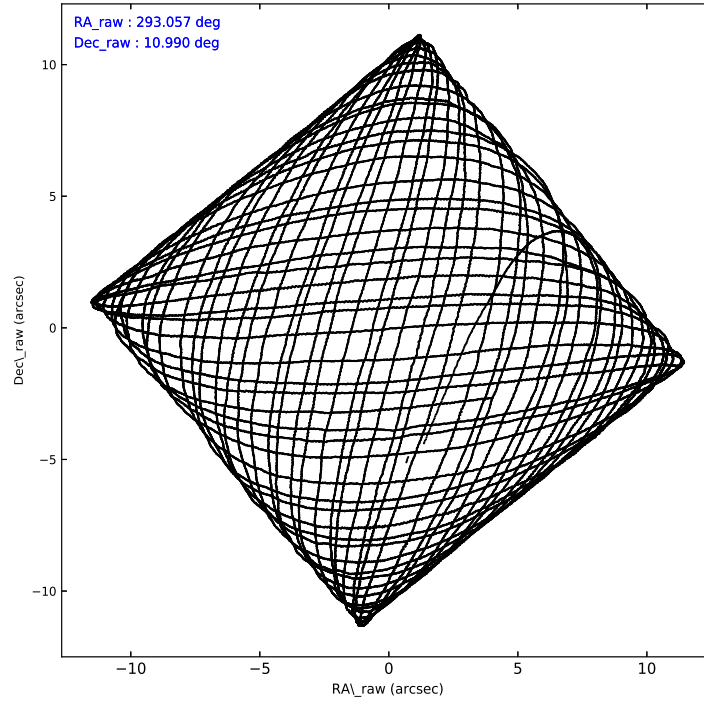
2.1.4 Events

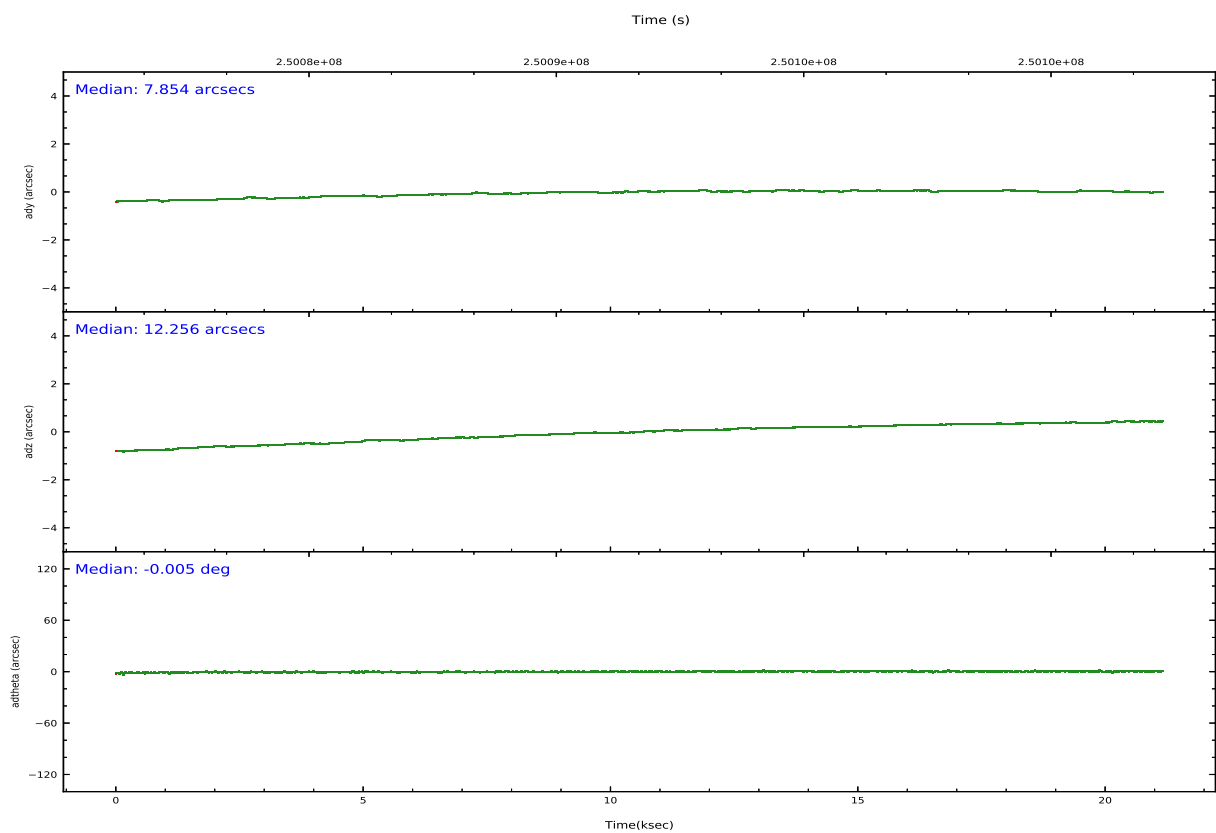
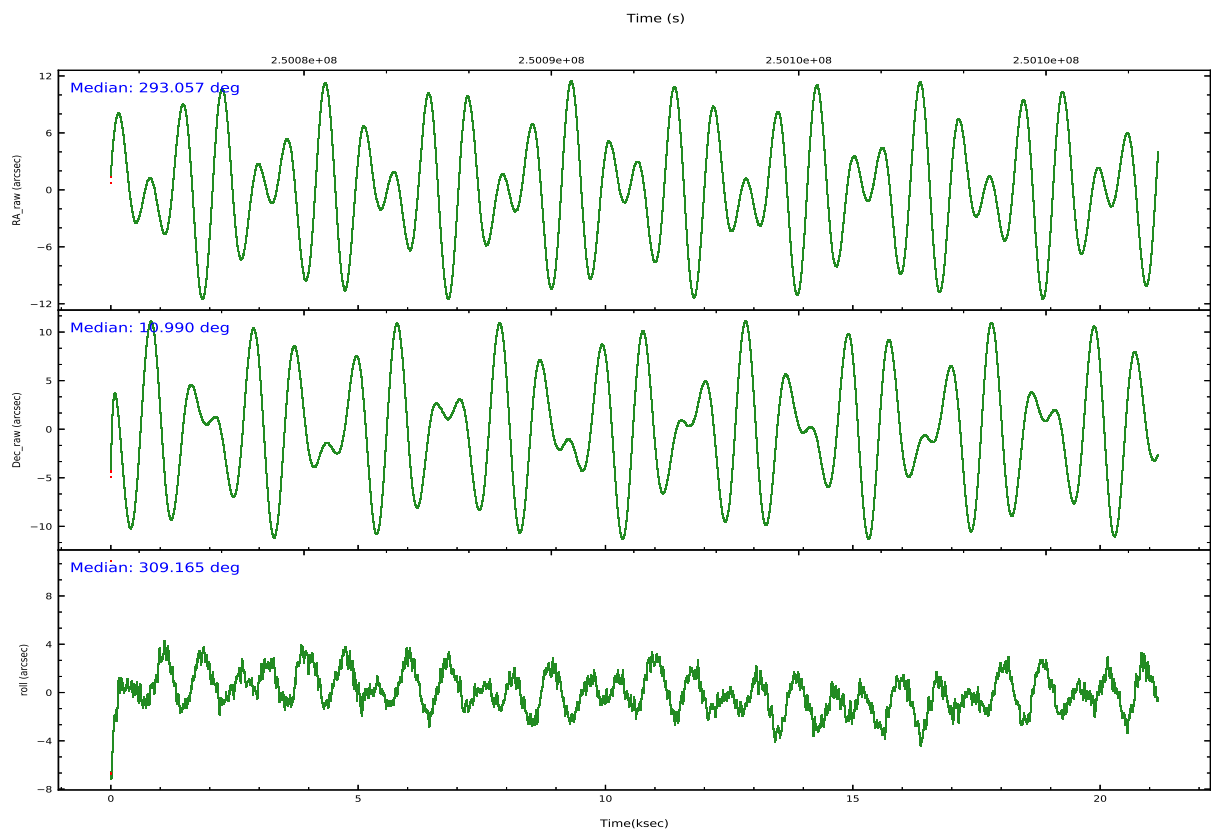
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	173424	162098	265912	169527	235247	214251	grade 0 events	9431	8941	17092	8138	9148	15221
rejected events	152693	142002	142025	149210	136754	167007		5%	5%	6%	4%	3%	7%
rejected %	88%	87%	53%	88%	58%	77%	grade 1 events	122	128	323	76	253	149
								0%	0%	0%	0%	0%	0%
							grade 2 events	4265	3810	36571	4233	20104	10345
								2%	2%	13%	2%	8%	4%
							grade 3 events	1877	1995	4501	2022	8798	5141
								1%	1%	1%	1%	3%	2%
							grade 4 events	1923	1972	4141	1945	8823	4845
								1%	1%	1%	1%	3%	2%
							grade 5 events	6520	7765	18768	8041	22178	10391
								3%	4%	7%	4%	9%	4%
							grade 6 events	3381	3499	62412	4114	52208	11891
								1%	2%	23%	2%	22%	5%
							grade 7 events	145905	133988	122104	140958	113735	156268
								84%	82%	45%	83%	48%	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	293.031480	293.05331238388	Subarray requested	NONE	NONE
[deg] Pointing Dec	10.999780	10.989987081057	Alternating exposures requested	N	N
[deg] Pointing Roll	309.010819	309.16481737713	[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)	250081266.184000	250080134.10579			
Observation start date	2005-12-04T11:00:02	2005-12-04T10:42:14			
[s] Observation end time (MET)	250102266.184000	250103242.73185			
Observation end date	2005-12-04T16:50:02	2005-12-04T17:07:22			
Read mode	TIMED	TIMED			

2.3 Aspect



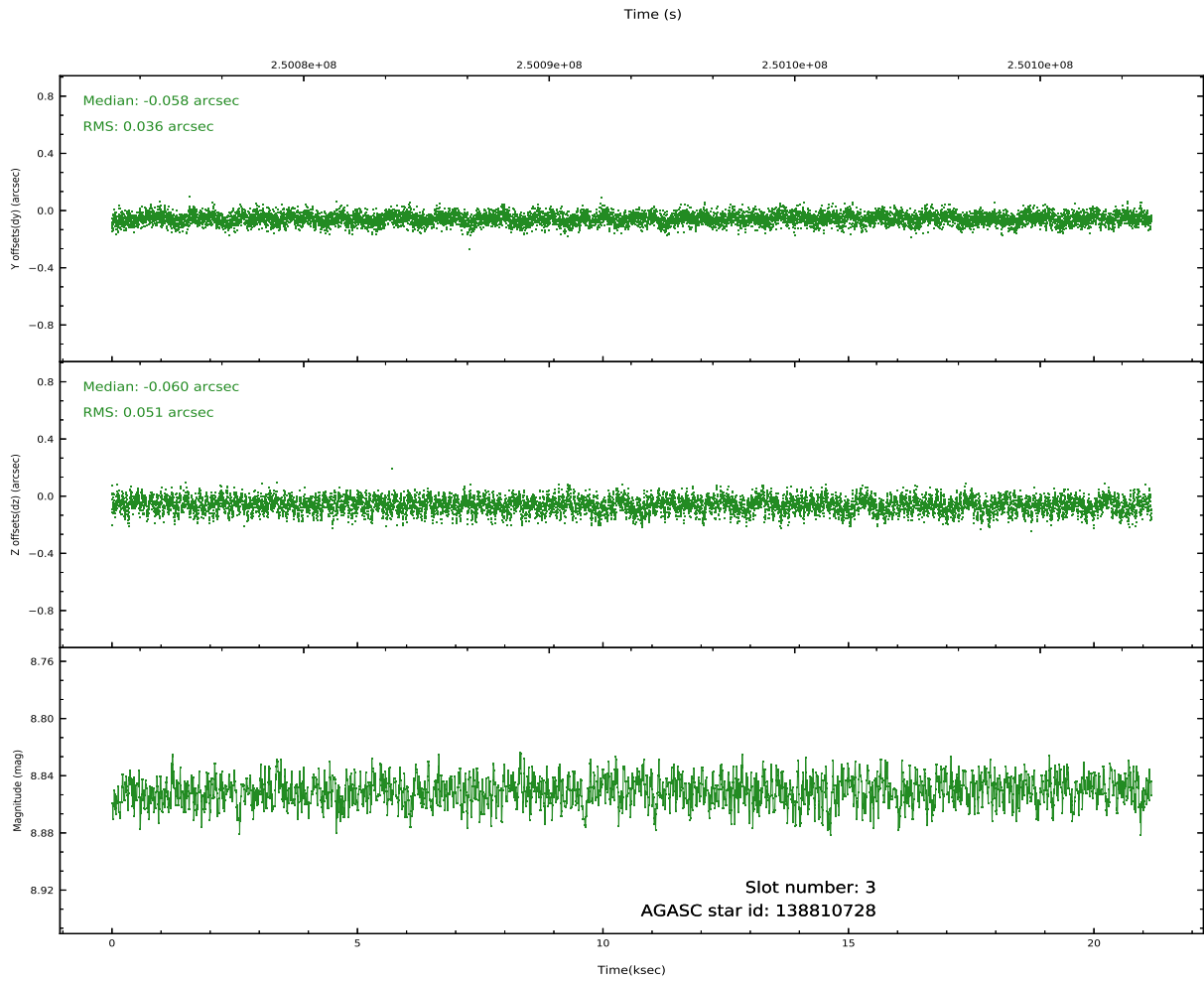
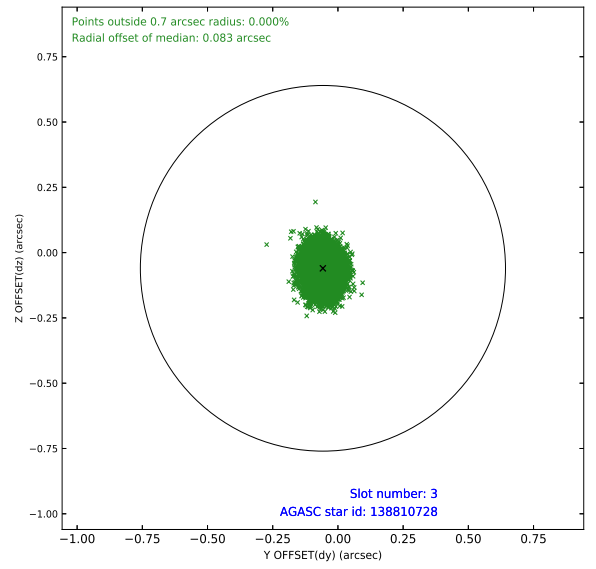
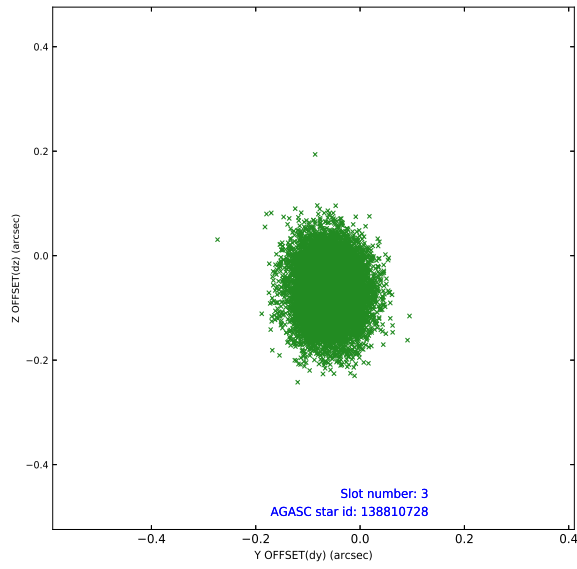


Slot Statistics

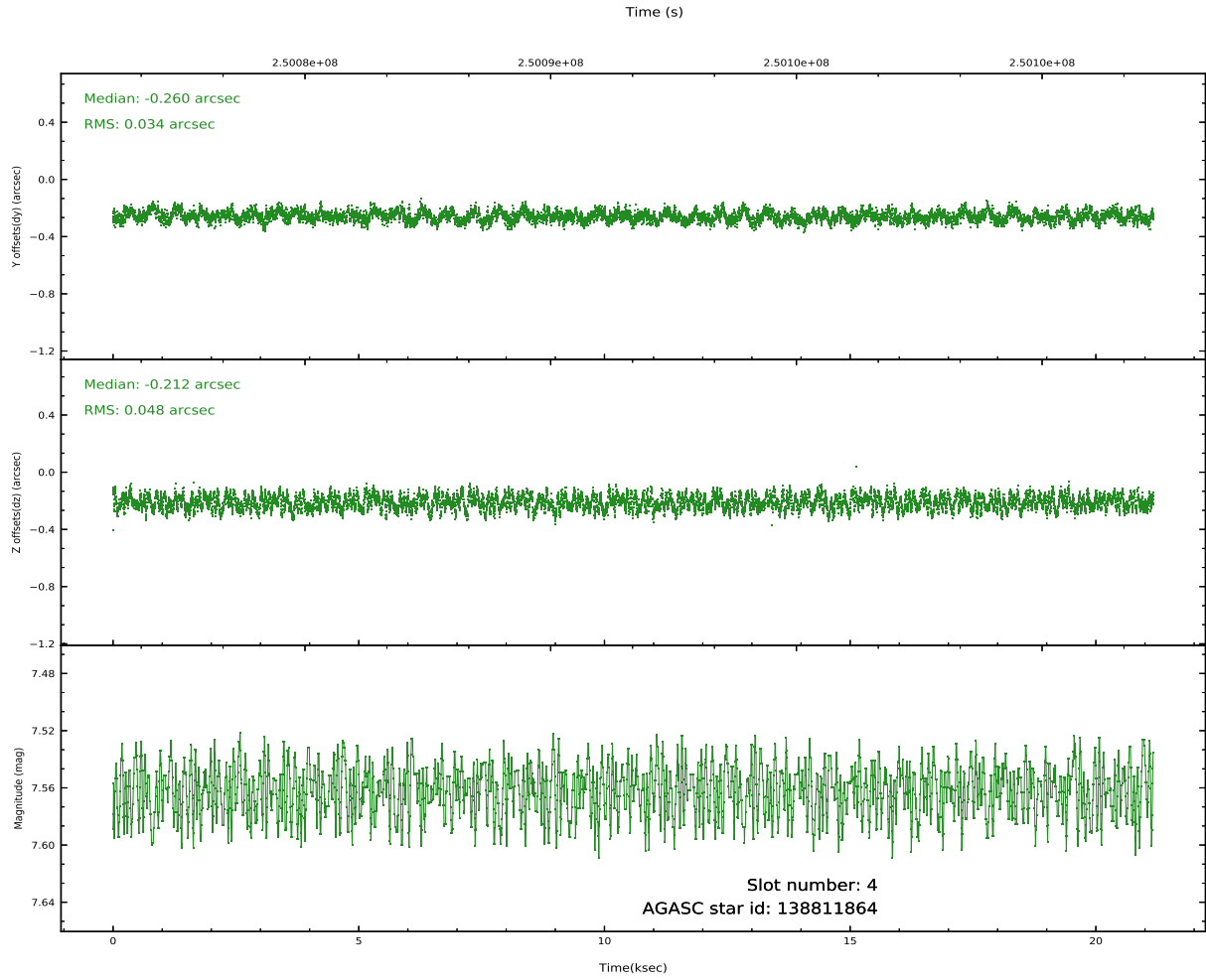
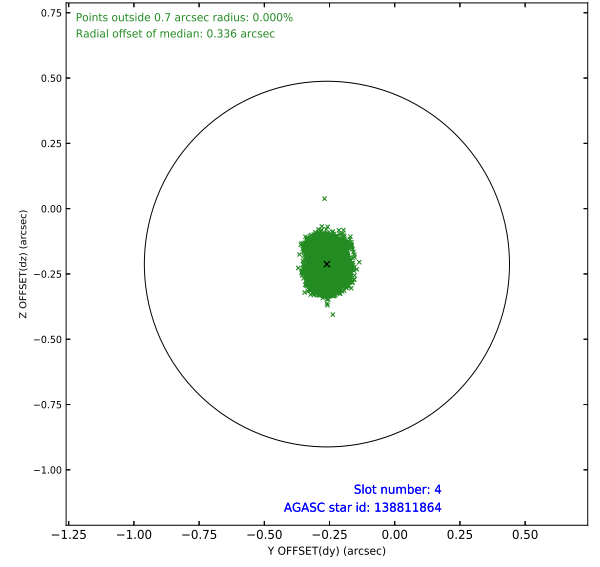
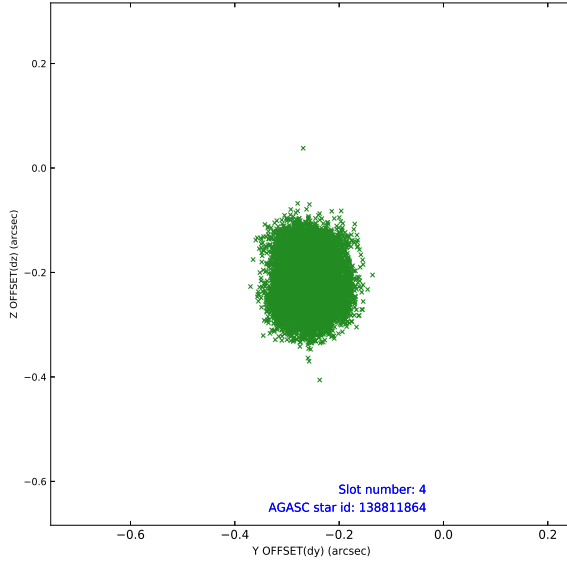
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-1	7.19	5165	1.000	0.093	-0.117	0.017	0.024	0.000000	0.000000	935.55	-1729
1	FID		ACIS-S-5	7.24	5165	1.000	-0.129	0.055	0.011	0.024	0.000000	0.000000	-1813.55	168
2	FID		ACIS-S-6	7.35	5165	1.000	0.015	0.073	0.023	0.032	0.000000	0.000000	400.88	812
3	GUIDE	used	138810728	8.85	10324	1.000	-0.058	-0.060	0.066	0.109	292.568685	11.088559	-1278.14	-1068
4	GUIDE	used	138811864	7.56	10328	1.000	-0.260	-0.212	0.065	0.098	292.193282	11.026987	-1943.72	-2237
5	GUIDE	used	138944608	8.82	10304	1.000	0.165	0.211	0.066	0.108	293.762373	10.804438	2171.07	1567
6	GUIDE	used	138950544	9.08	10327	1.000	0.172	-0.001	0.073	0.119	293.596757	10.776492	1882.10	1048
7	GUIDE	used	138954992	6.97	10328	1.000	-0.025	0.064	0.059	0.092	293.660265	10.952713	1529.12	1622

2.4 Star Slots

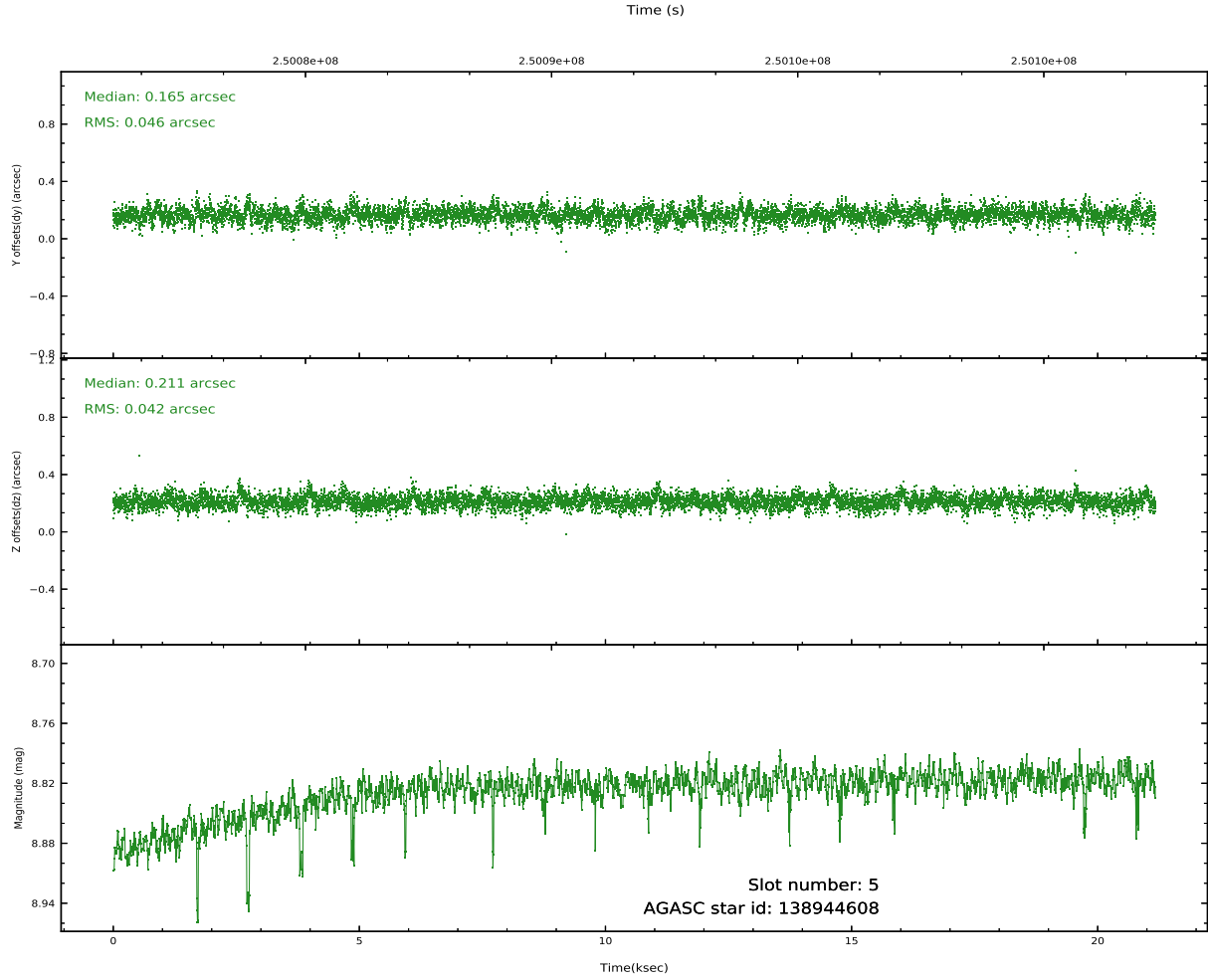
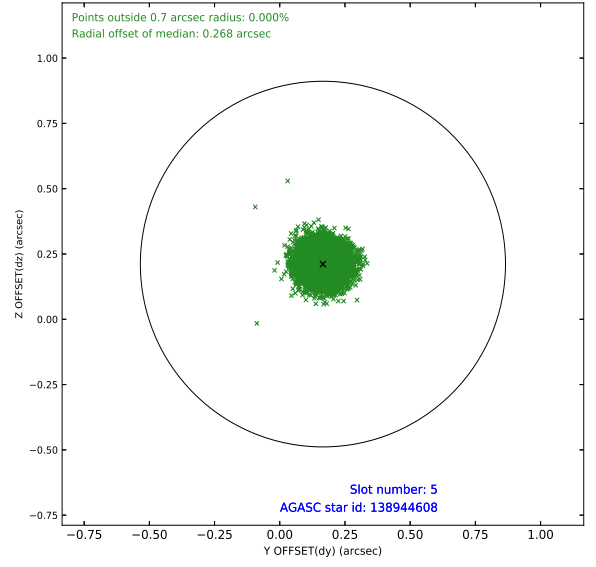
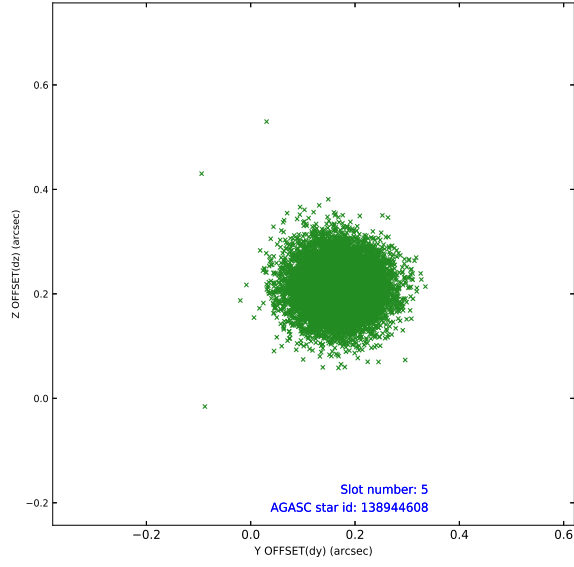
2.4.1 Slot 3



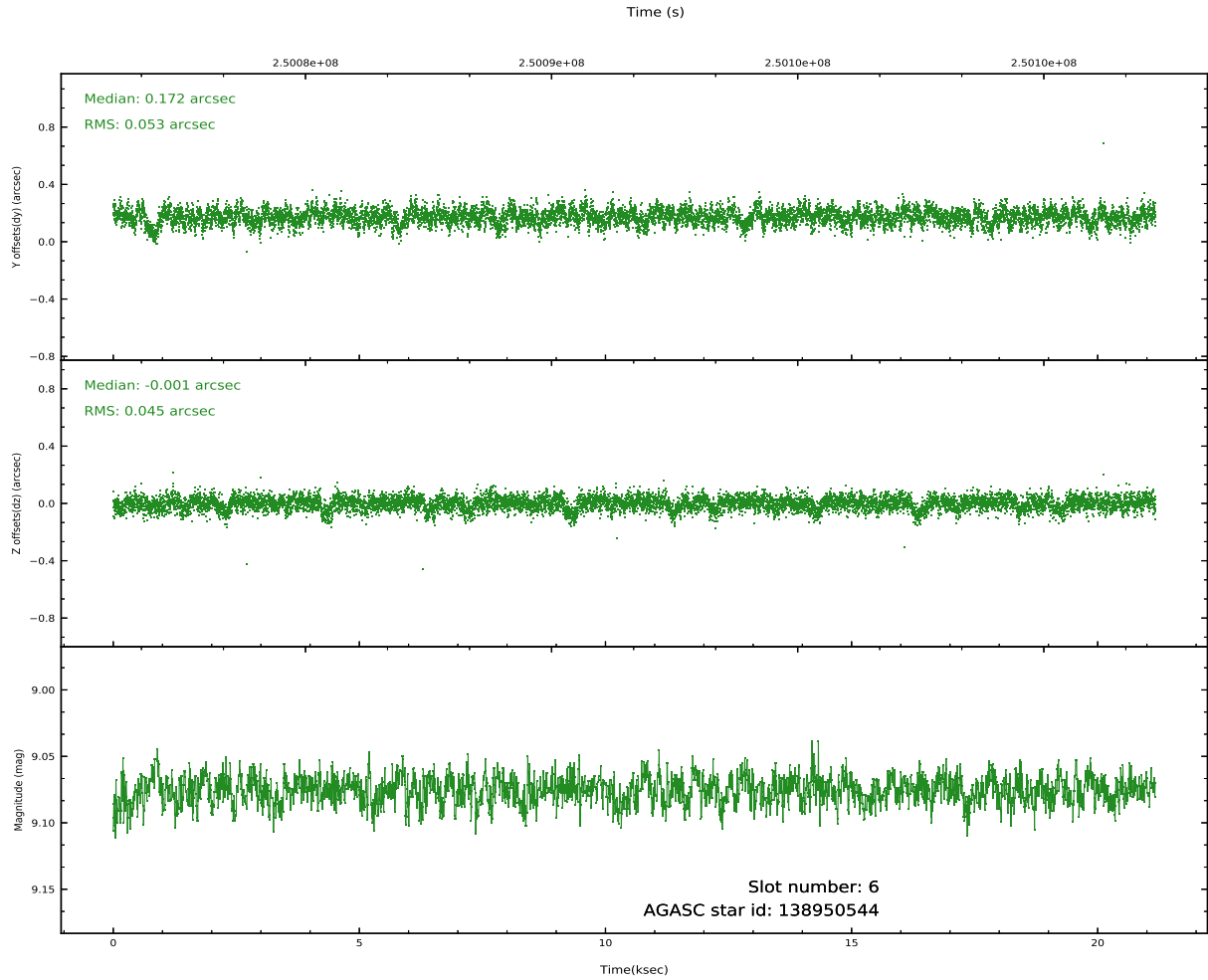
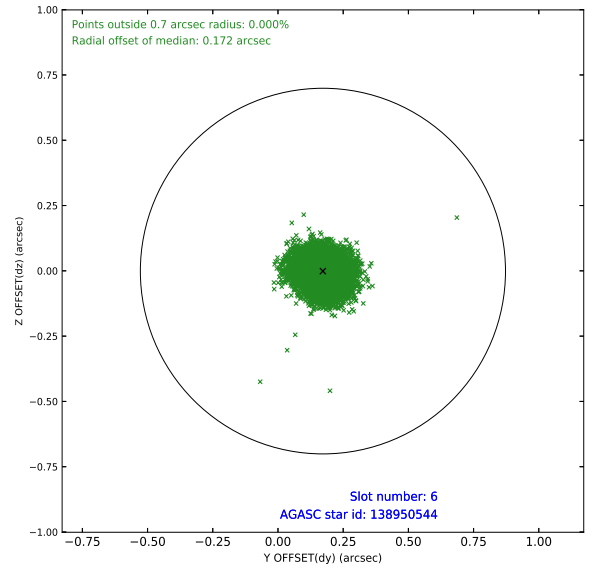
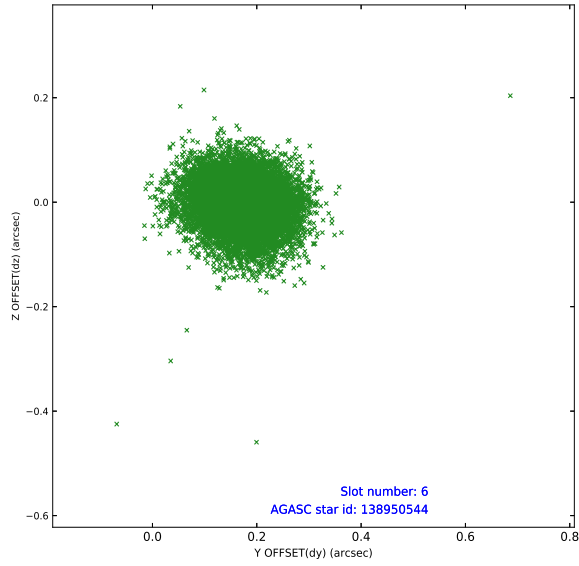
2.4.2 Slot 4



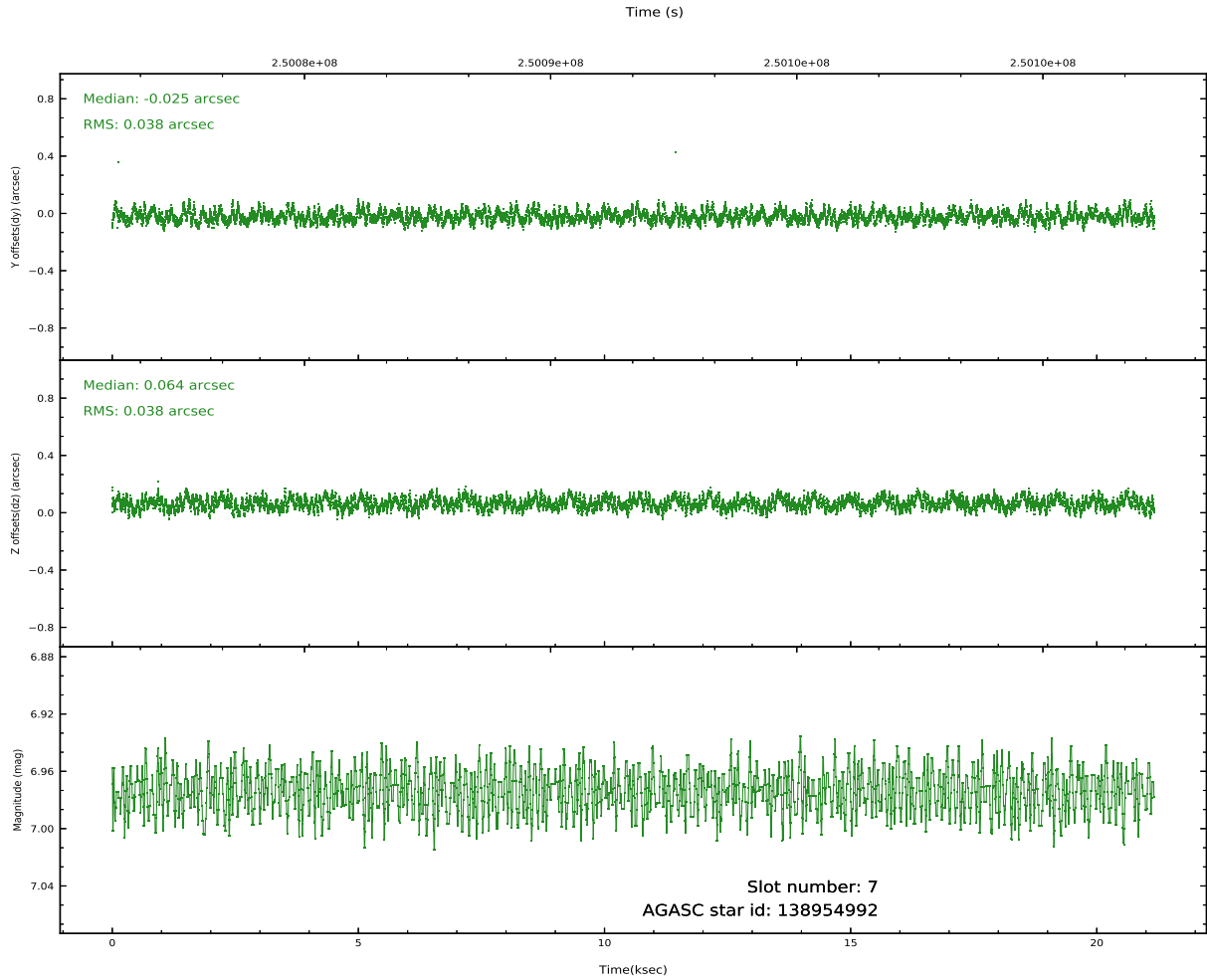
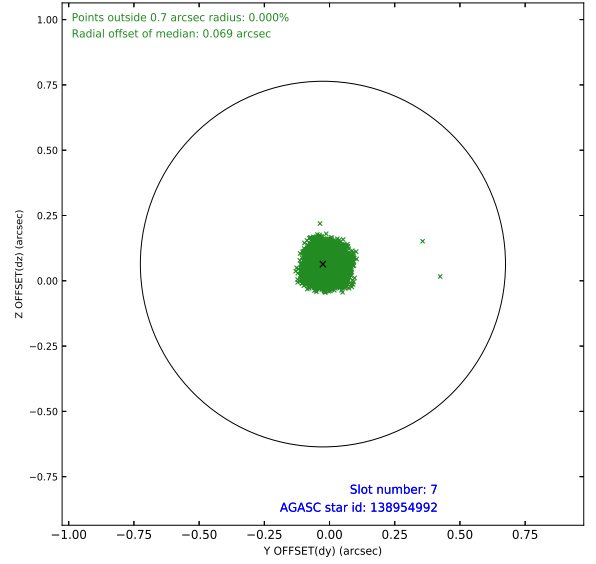
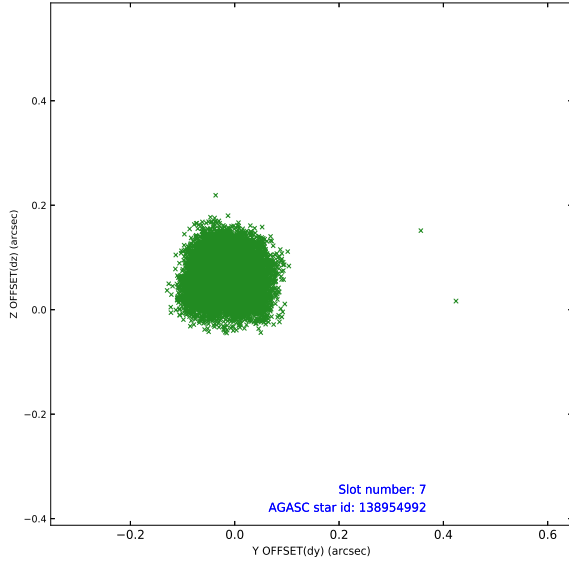
2.4.3 Slot 5



2.4.4 Slot 6

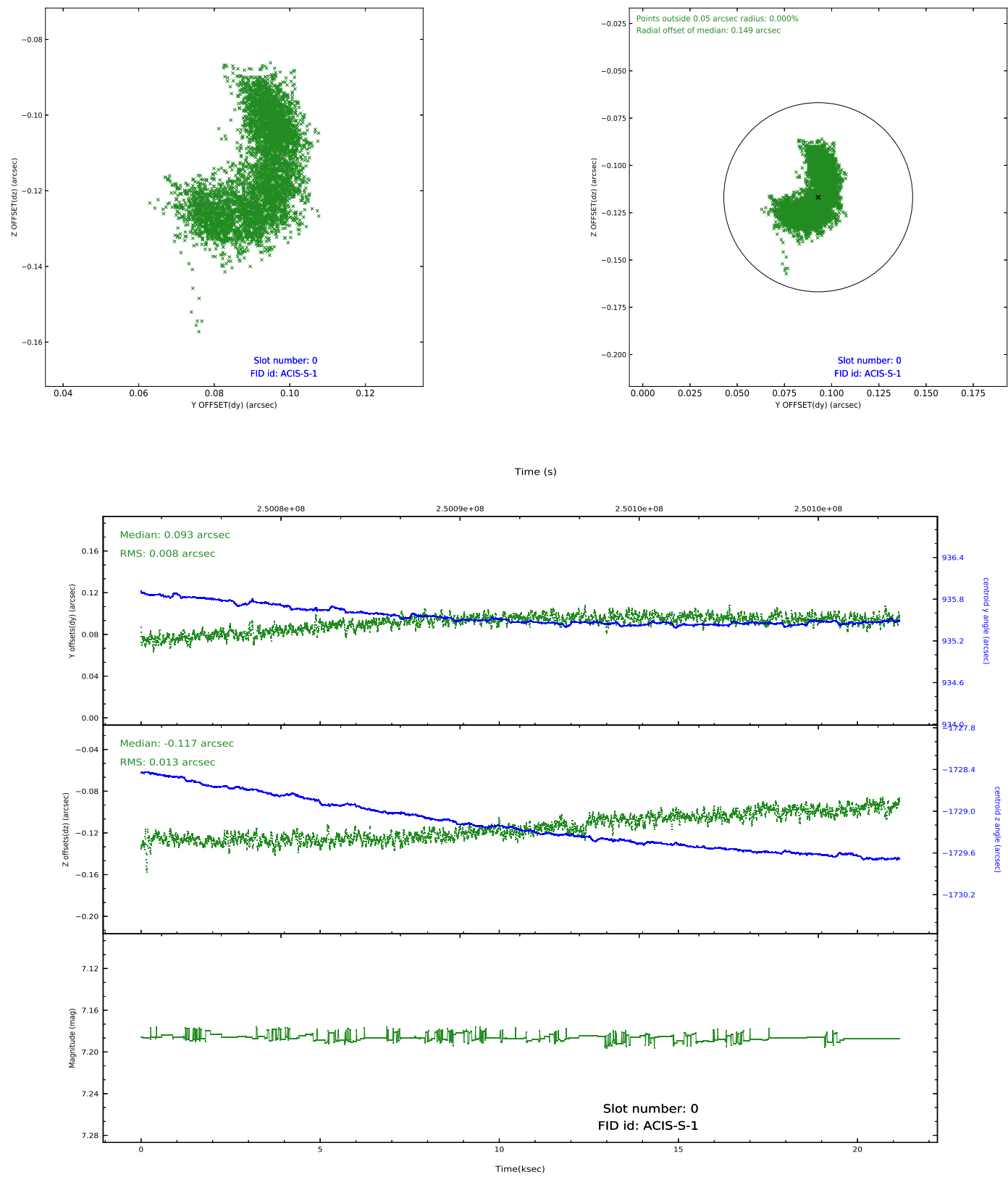


2.4.5 Slot 7

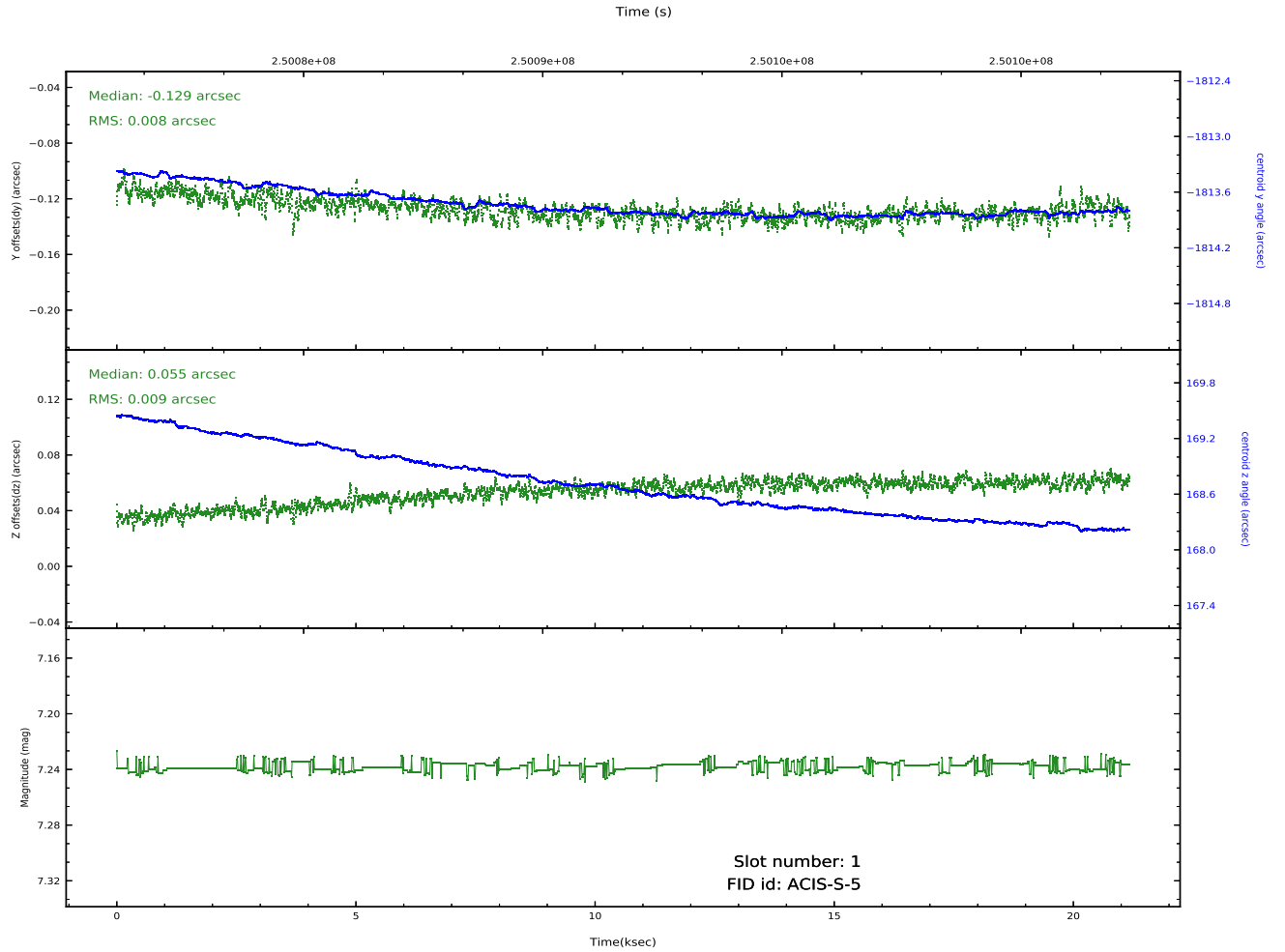
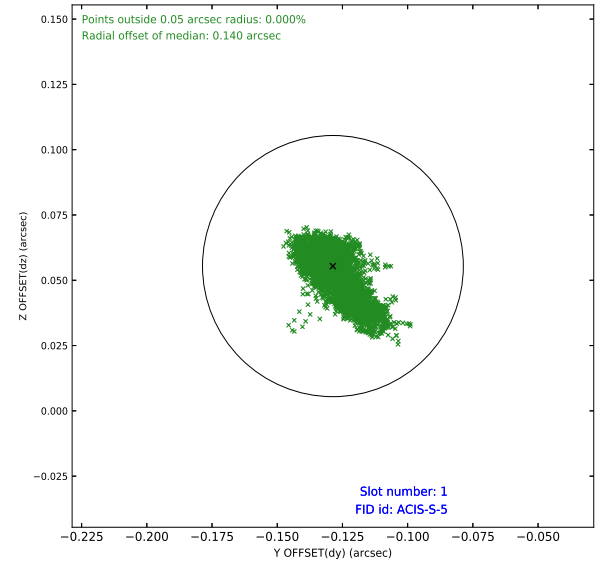
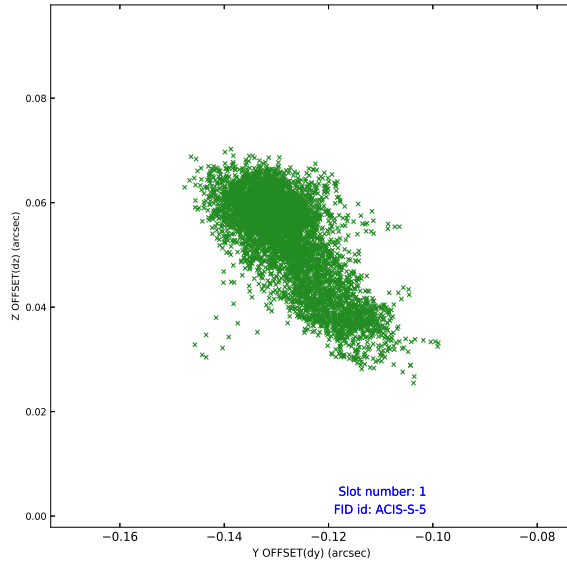


2.5 FID Slots

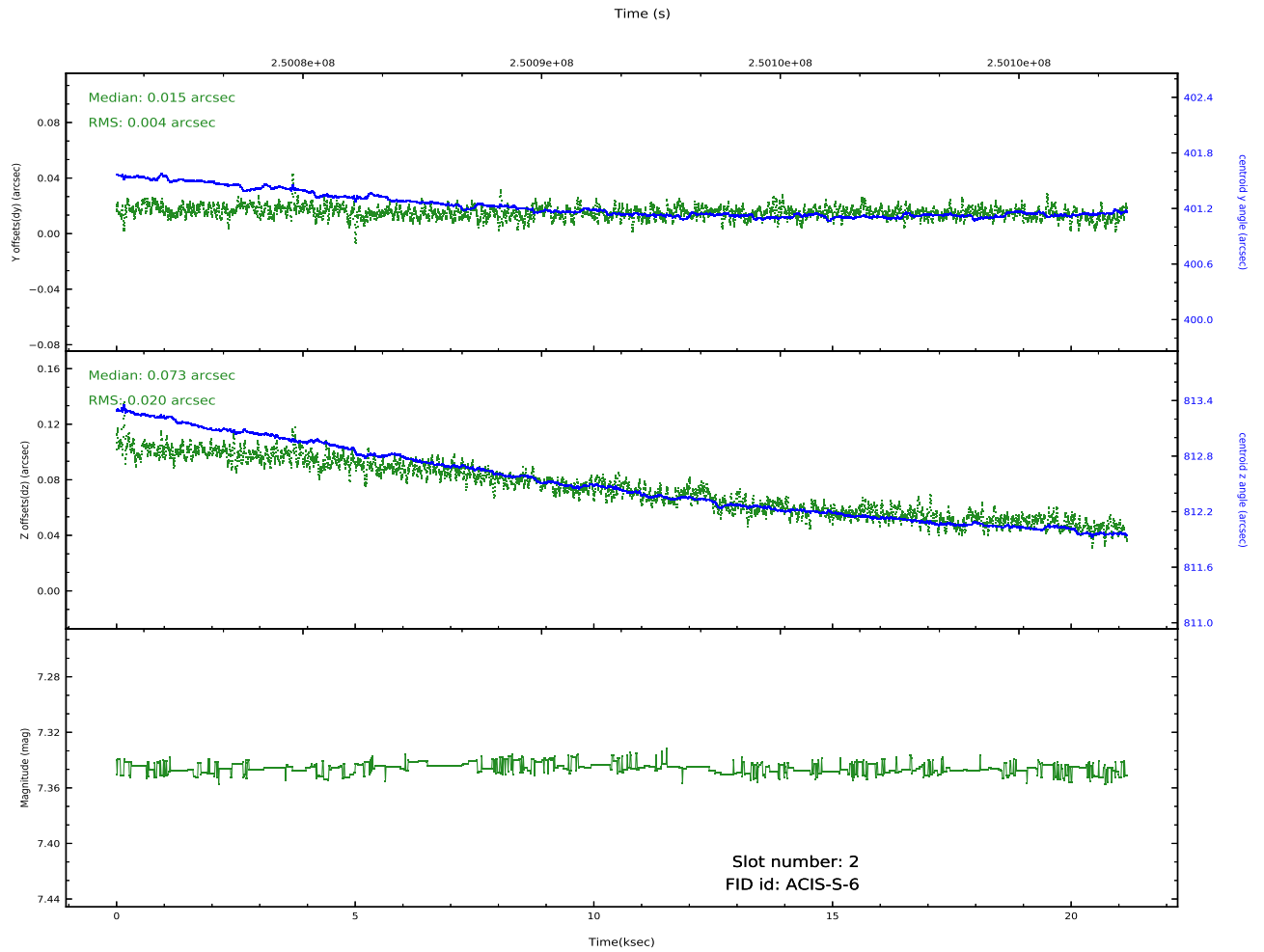
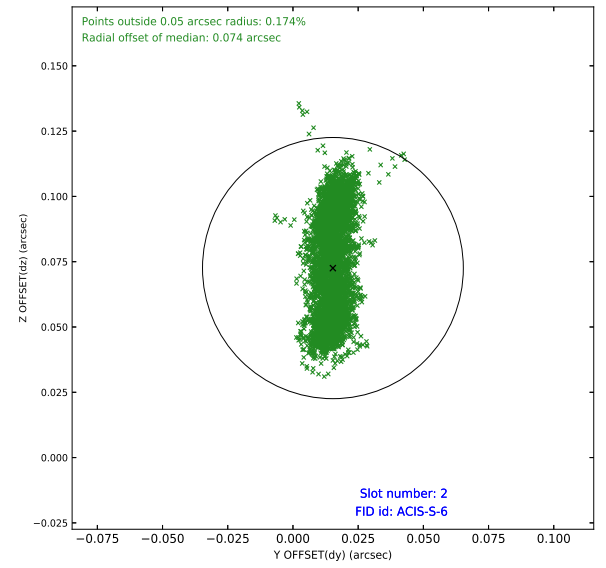
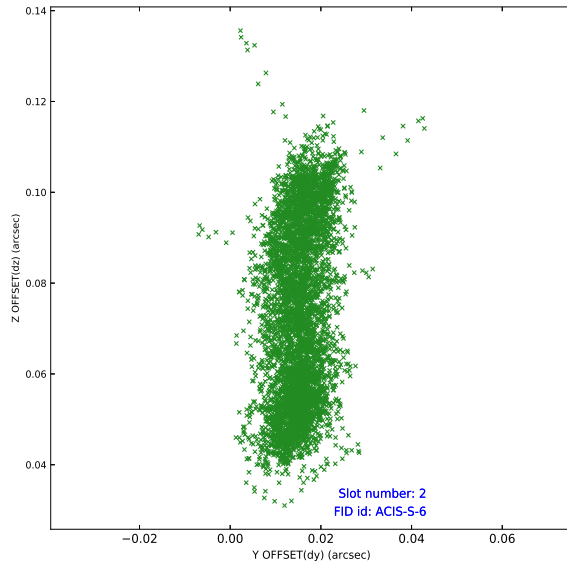
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Francesca Civano
V&V Date (YYYY-MM-DD)	2020.10.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	21.16479

A.2 Comments