

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 4758 - L2 Version 4
Chandra X-Ray Center

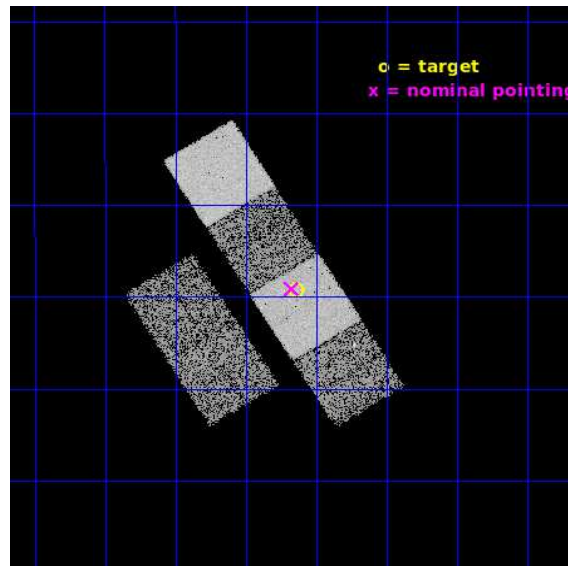
L2 Processing Date : Sep 23 2020

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

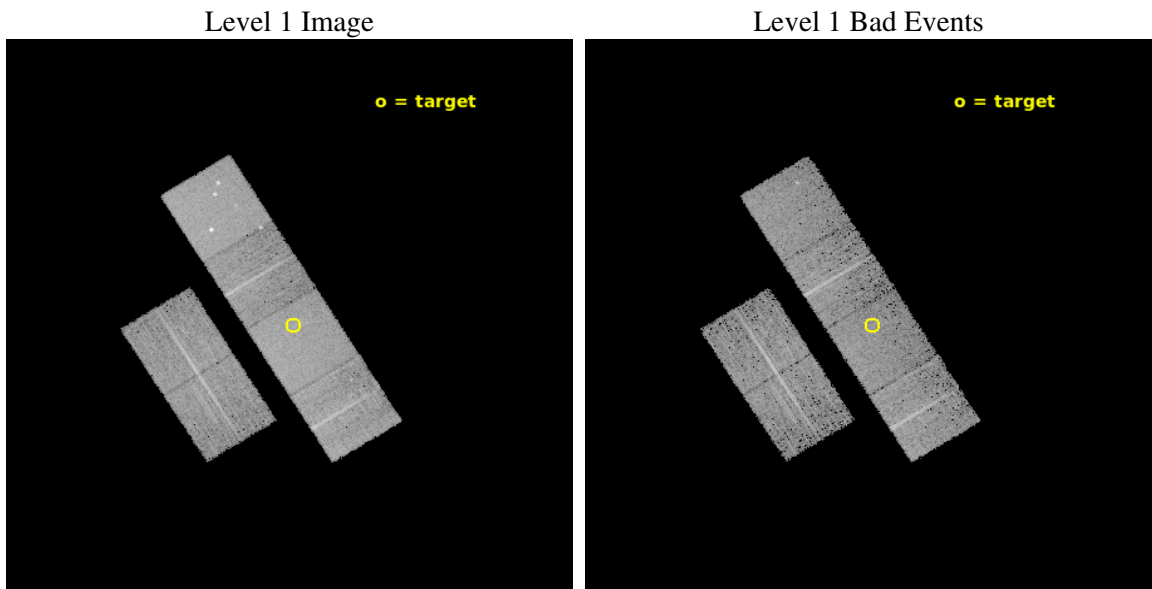
seq_num	700844	Sequence number
obs_id	4758	Observation id
title	Chandra follow-up of giant-amplitude X-ray flares	Proposal title
observer	Dr. Peter Predehl	Principal investigator
object	RX J1242.6-1119	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	190.660417	Observer's specified target RA [deg]
dec_targ	-11.3225	Observer's specified target Dec [deg]
ra_nom	190.66797886035	Nominal RA [deg]
dec_nom	-11.318487914606	Nominal Dec [deg]
roll_nom	58.144939377309	Nominal Roll [deg]
revision	4	Processing version of data
ontime	6958.615229845	Sum of GTIs [s]
livetime	6870.5010538297	Livetime [s]
ontime2	6958.6562698483	Sum of GTIs [s]
ontime3	6958.4921098351	Sum of GTIs [s]
ontime5	6958.5741898417	Sum of GTIs [s]
ontime6	6958.5331498384	Sum of GTIs [s]
ontime7	6958.615229845	Sum of GTIs [s]
ontime8	6958.4510698617	Sum of GTIs [s]
l2events	73331	Number of level 2 events



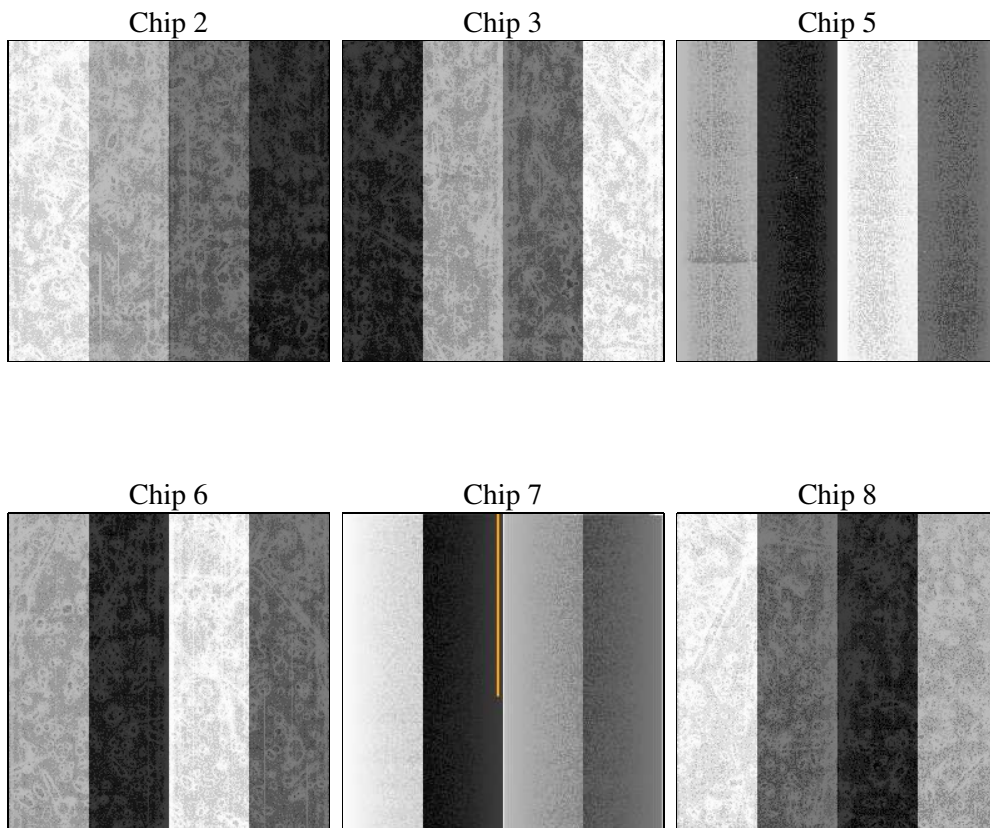
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	7000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	6958.615229845	Sum of GTIs [s]
caldsver	4.9.2	 	ontime2	6958.6562698483	Sum of GTIs [s]
date	2020-09-24T01:38:05	Date and time of file creation	ontime3	6958.4921098351	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	6958.5741898417	Sum of GTIs [s]
			ontime6	6958.5331498384	Sum of GTIs [s]
			ontime7	6958.615229845	Sum of GTIs [s]
			ontime8	6958.4510698617	Sum of GTIs [s]
			l1events	326304	Number of level 1 events

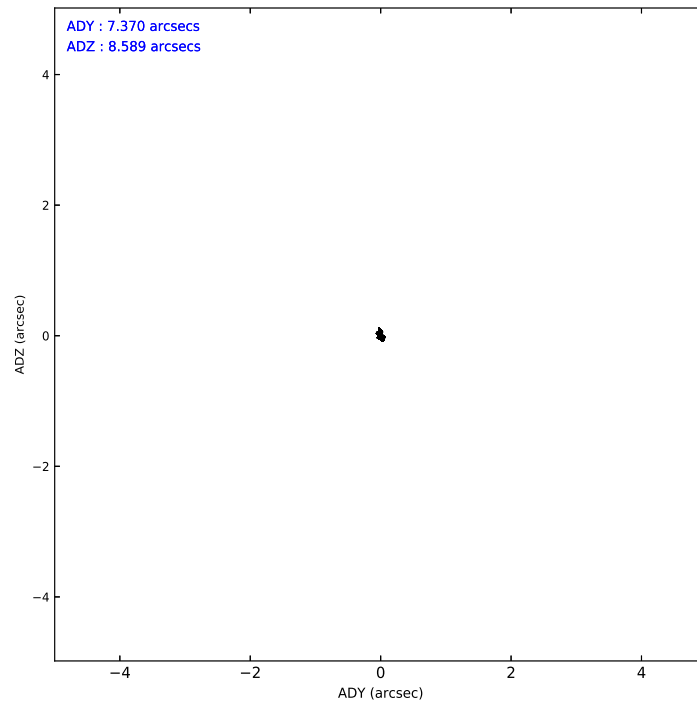
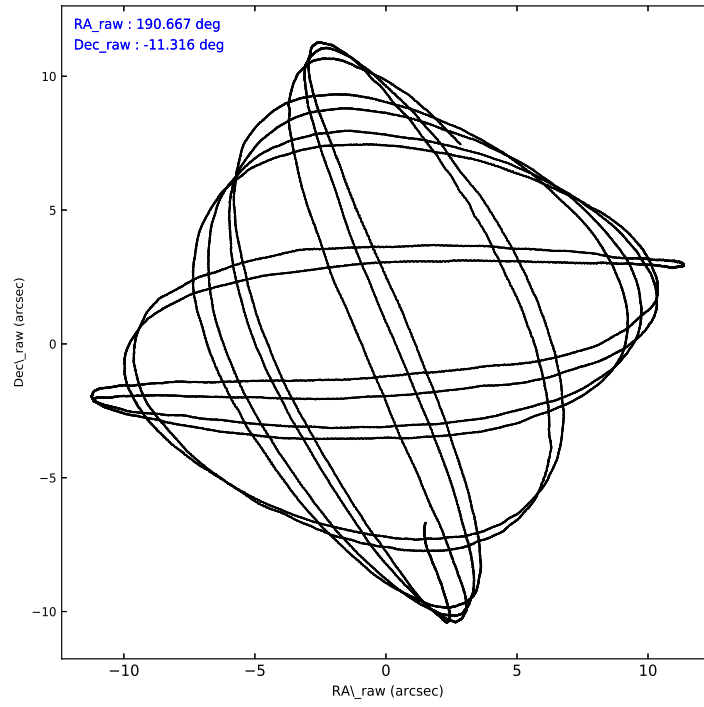
2.1.4 Events

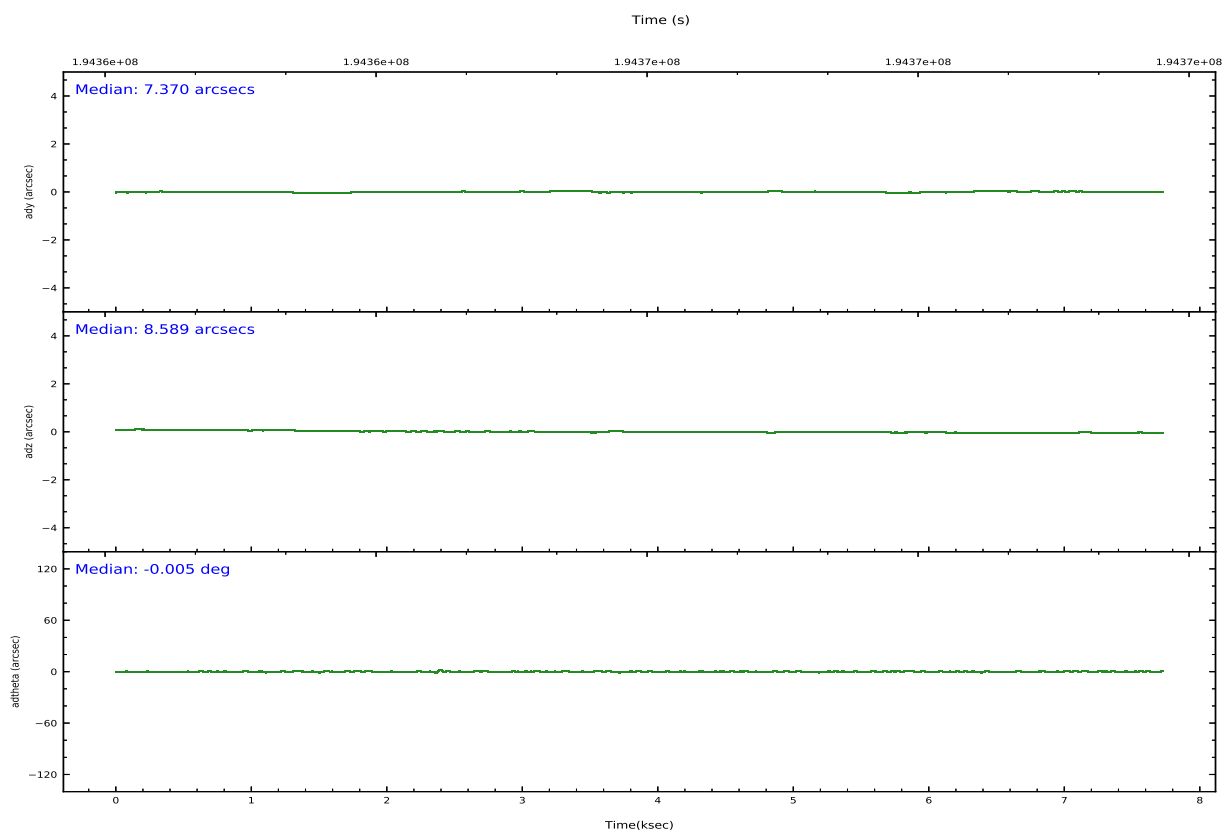
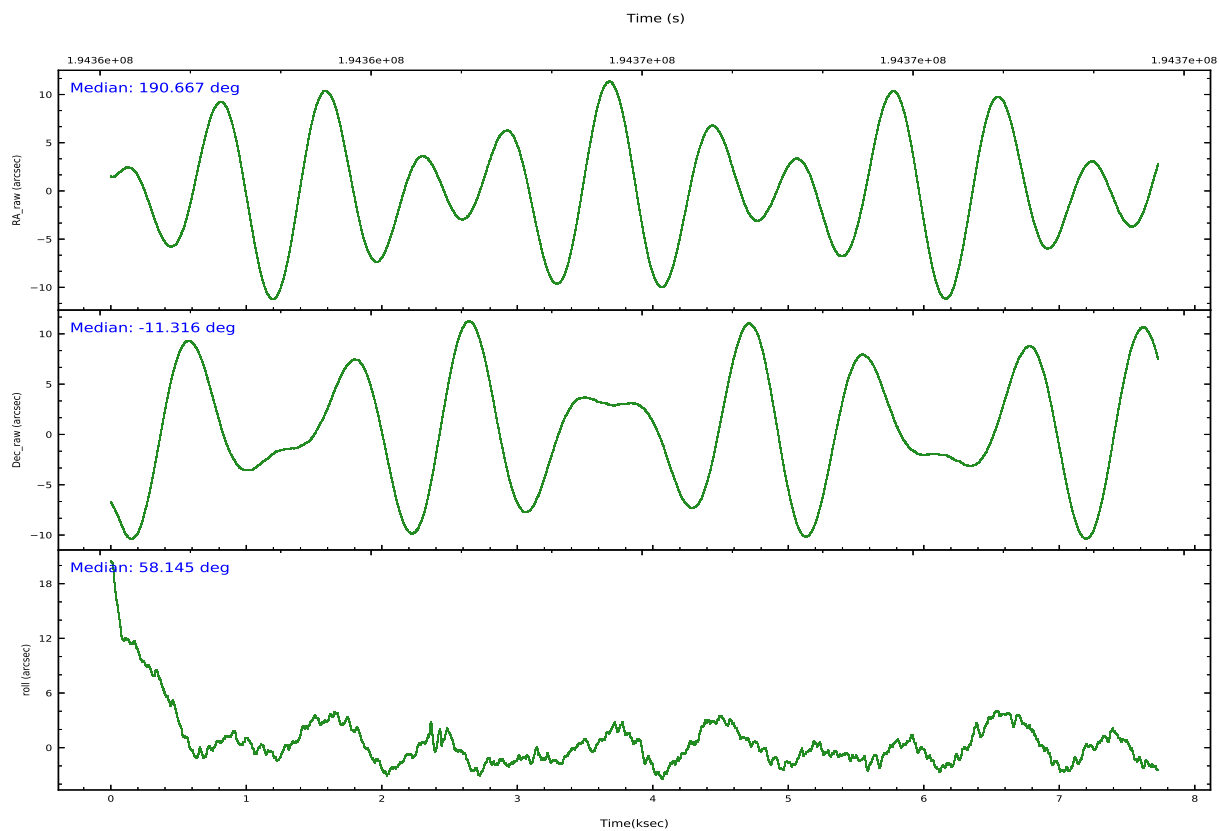
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	45787	43702	71090	46310	61878	57537	grade 0 events	2410	2432	4924	2205	2397	3975
rejected events	40230	38194	37727	40789	36439	45106		5%	5%	6%	4%	3%	6%
rejected %	87%	87%	53%	88%	58%	78%	grade 1 events	21	21	121	16	67	35
								0%	0%	0%	0%	0%	0%
							grade 2 events	1171	1016	9606	1134	4972	2694
								2%	2%	13%	2%	8%	4%
							grade 3 events	524	563	1356	567	2165	1325
								1%	1%	1%	1%	3%	2%
							grade 4 events	541	534	1093	538	2247	1304
								1%	1%	1%	1%	3%	2%
							grade 5 events	1892	2010	5147	2124	5800	2761
								4%	4%	7%	4%	9%	4%
							grade 6 events	917	971	16418	1083	13673	3138
								2%	2%	23%	2%	22%	5%
							grade 7 events	38311	36155	32425	38643	30557	42305
								83%	82%	45%	83%	49%	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	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	190.666491	190.66797886035	Subarray requested	NONE	NONE
[deg] Pointing Dec	-11.342533	-11.318487914606	Alternating exposures requested	N	N
[deg] Pointing Roll	57.989751	58.144939377309	[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)	194362808.184000	194361575.93135			
Observation start date	2004-02-28T13:39:04	2004-02-28T13:19:35			
[s] Observation end time (MET)	194369808.184000	194370670.75675			
Observation end date	2004-02-28T15:35:44	2004-02-28T15:51:10			
Read mode	TIMED	TIMED			

2.3 Aspect



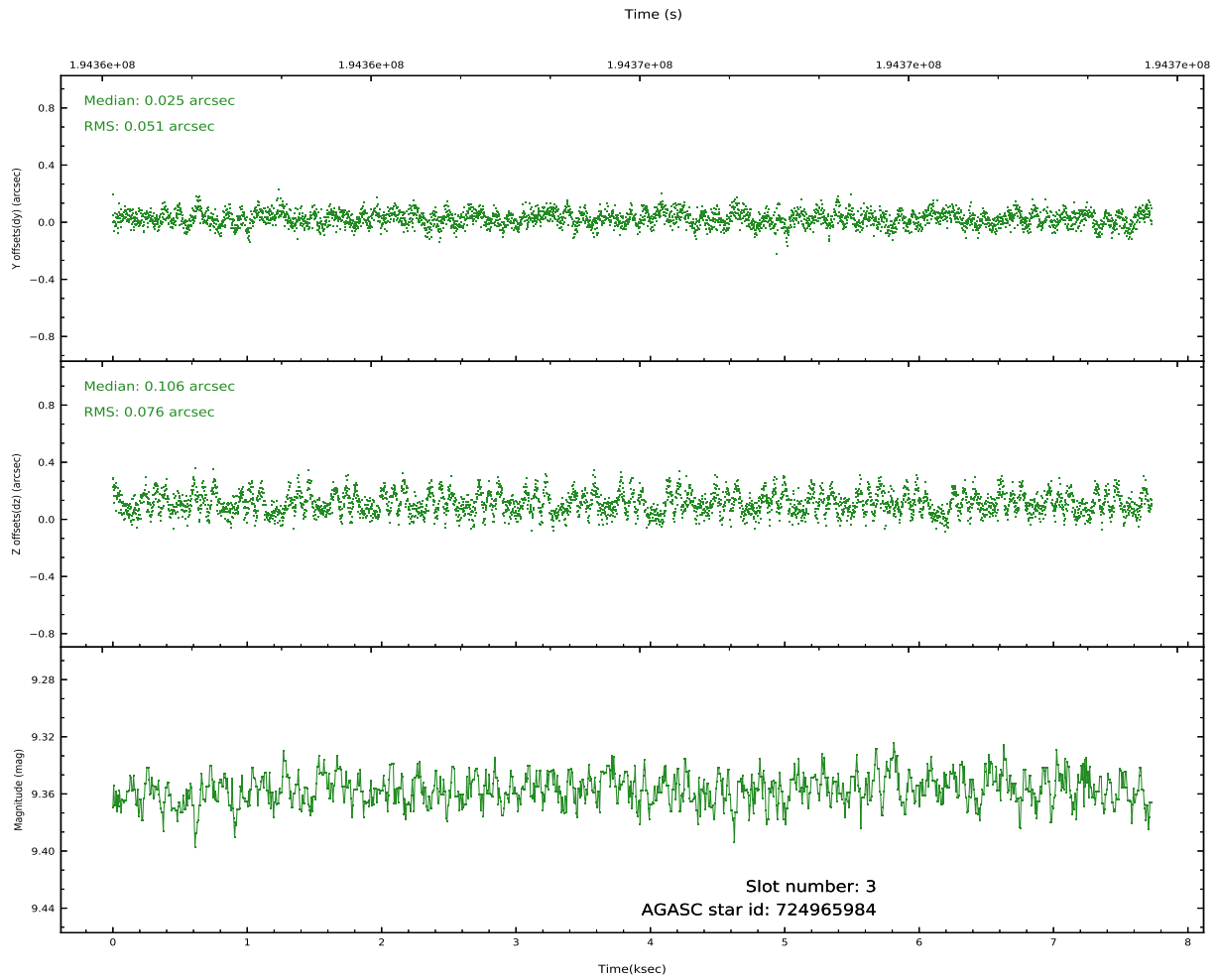
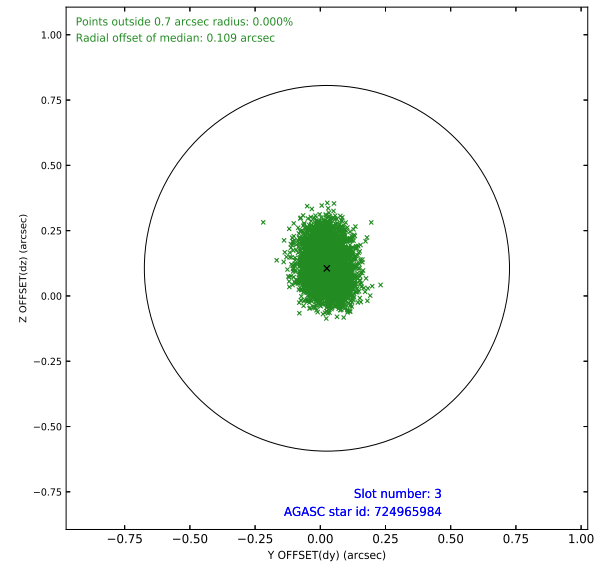
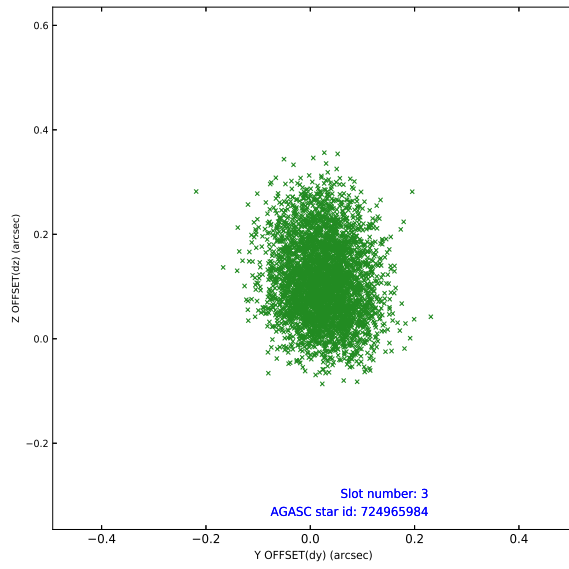


Slot Statistics

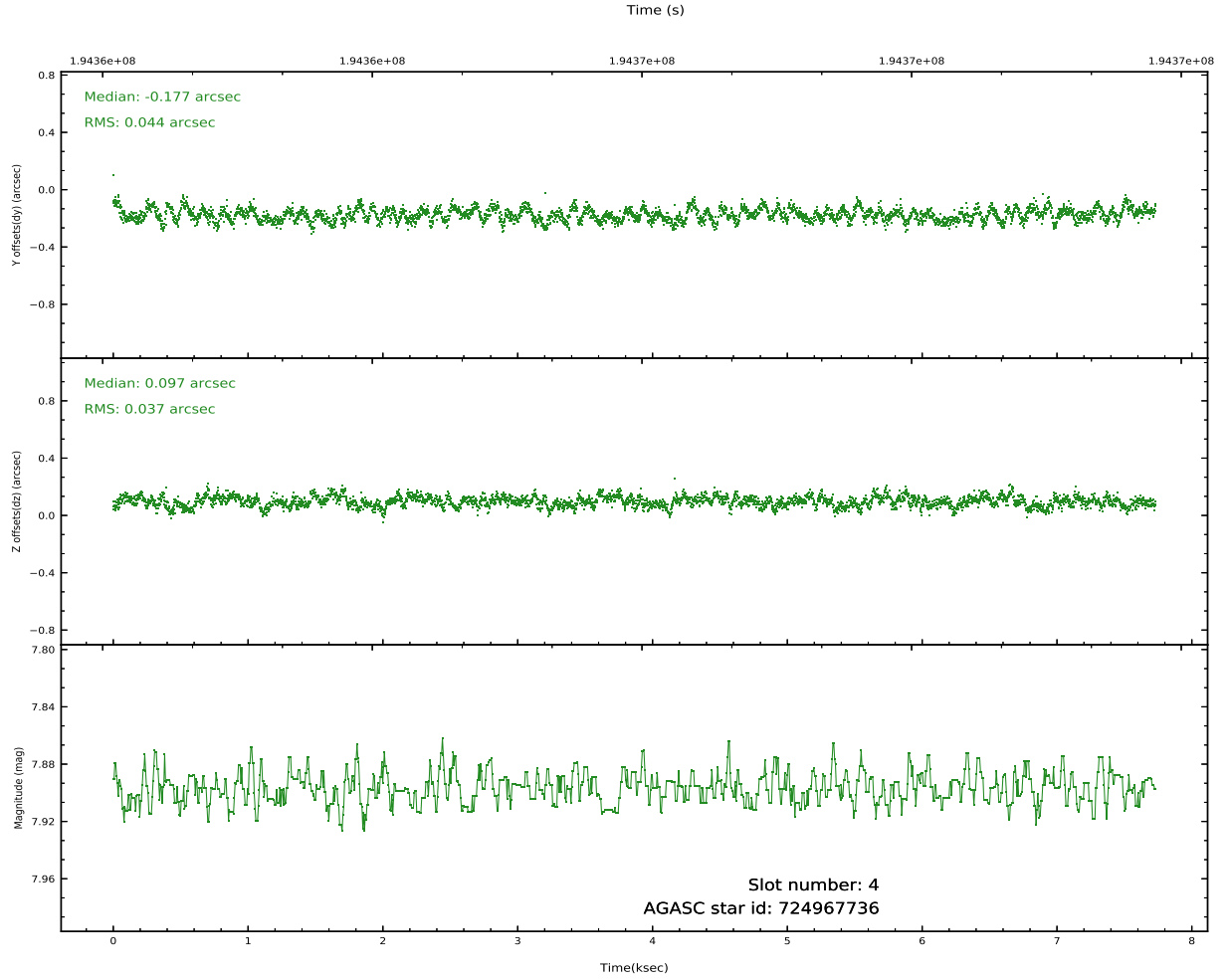
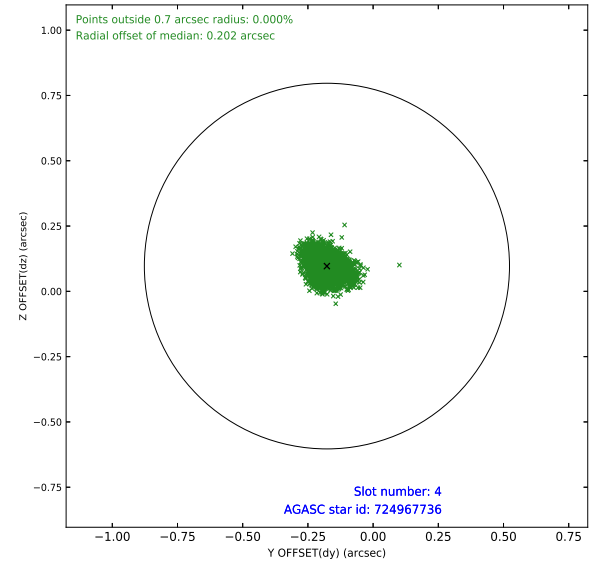
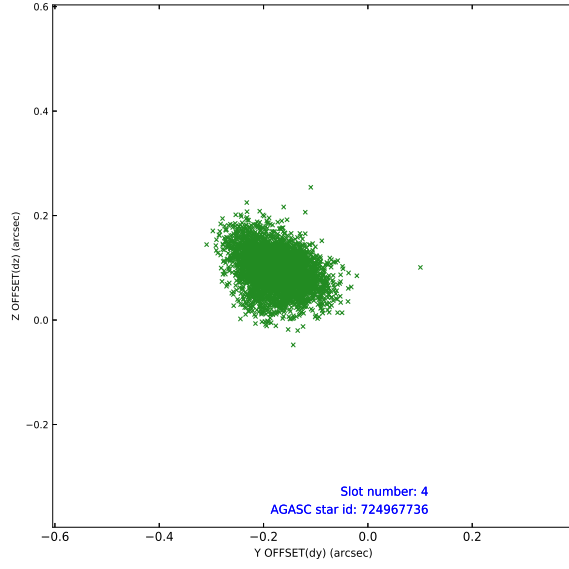
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.10	1886	1.000	-0.044	-0.075	0.007	0.011	0.000000	0.000000	-760.15	-1729
1	FID		ACIS-S-4	7.21	1886	1.000	0.119	0.041	0.006	0.010	0.000000	0.000000	2152.93	178
2	FID		ACIS-S-5	7.23	1886	1.000	-0.106	0.042	0.007	0.011	0.000000	0.000000	-1812.14	172
3	GUIDE	used	724965984	9.36	3769	1.000	0.025	0.106	0.097	0.160	191.038520	-11.936246	-1117.87	-2244
4	GUIDE	used	724967736	7.90	3772	1.000	-0.177	0.097	0.061	0.100	191.267974	-10.999423	2172.39	-1148
5	GUIDE	used	724969752	8.53	3771	1.000	-0.040	0.054	0.068	0.112	191.101692	-11.318790	886.97	-1257
6	GUIDE	used	724970568	9.27	3771	1.000	0.227	-0.158	0.091	0.148	190.273943	-11.584336	-1472.08	711
7	GUIDE	used	724971048	8.80	3769	1.000	-0.033	-0.100	0.072	0.116	190.547082	-11.185183	256.50	658

2.4 Star Slots

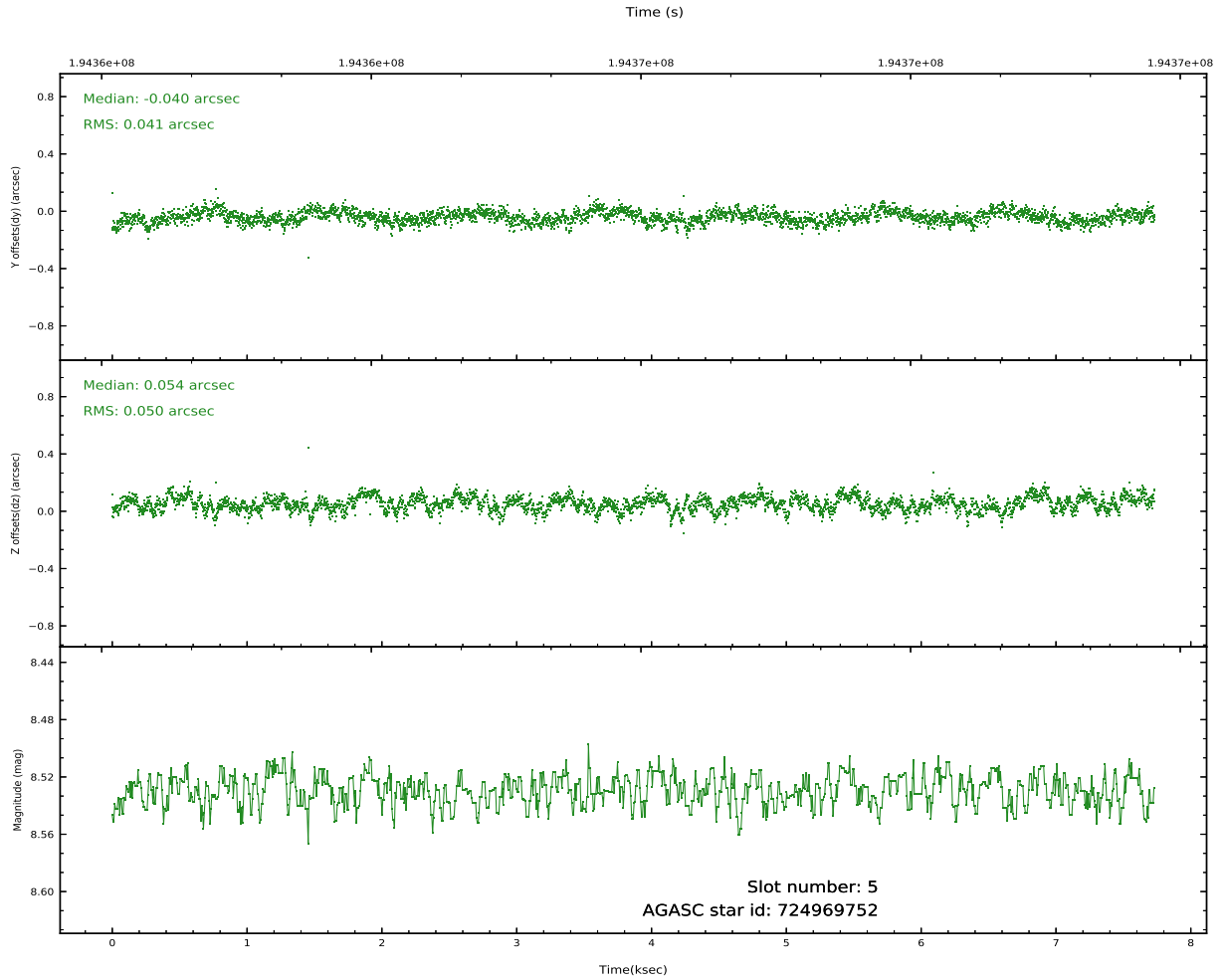
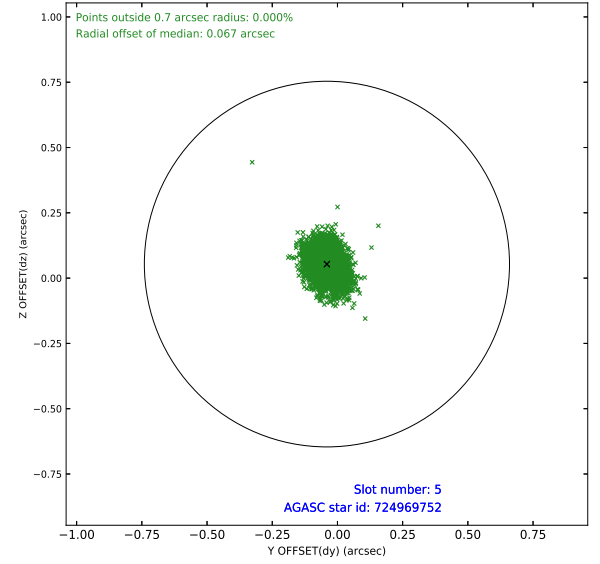
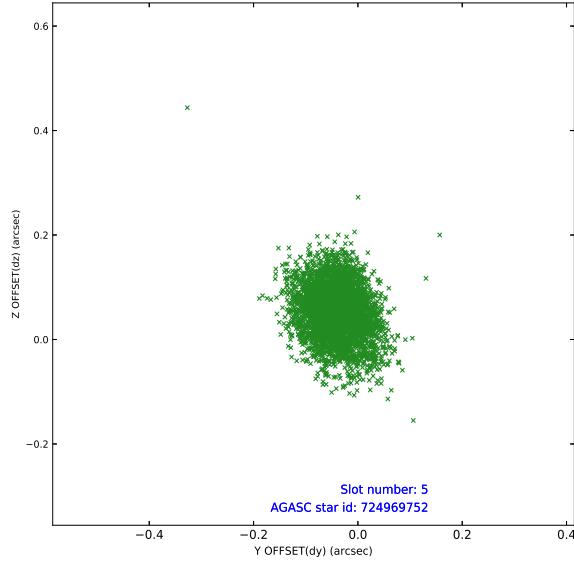
2.4.1 Slot 3



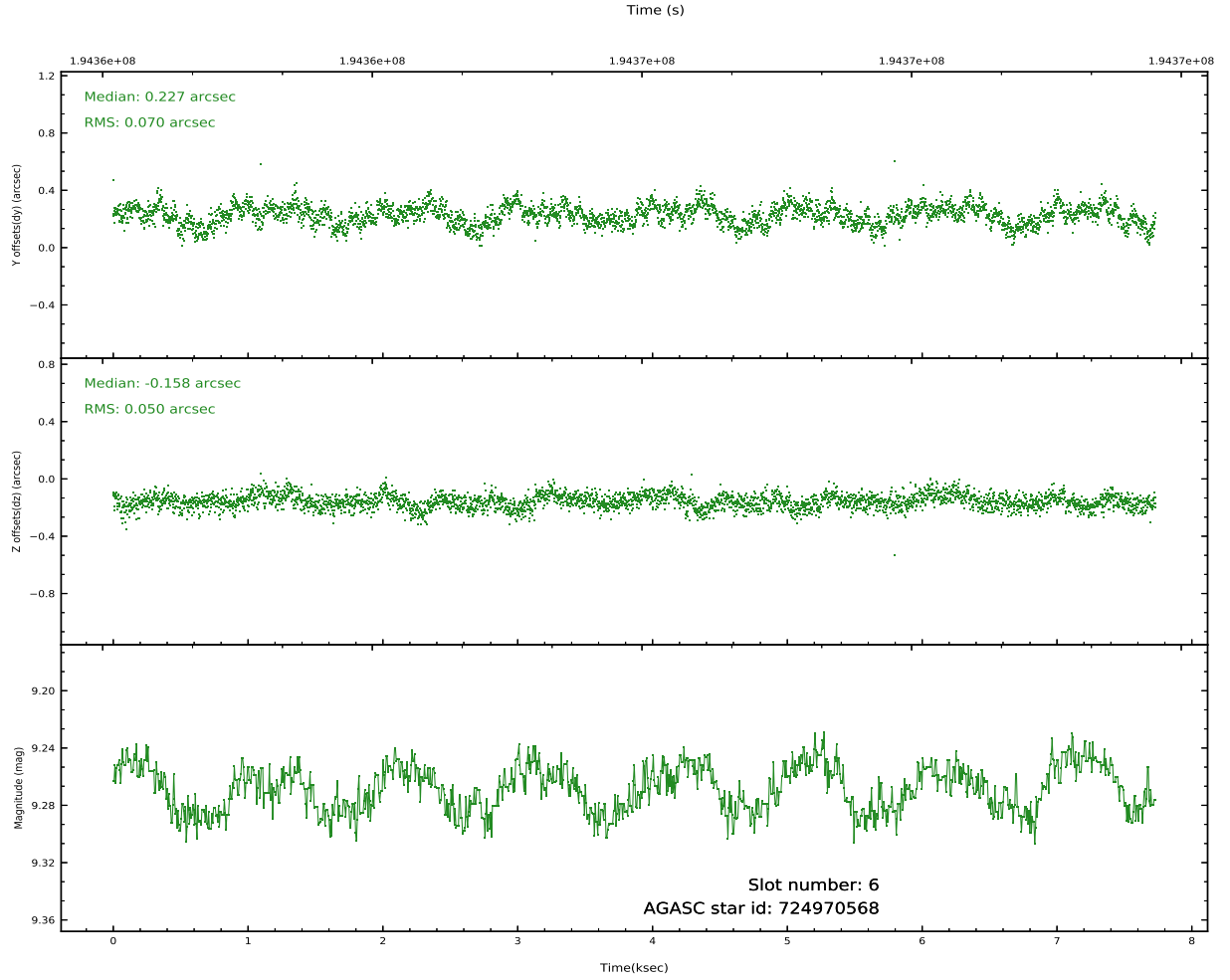
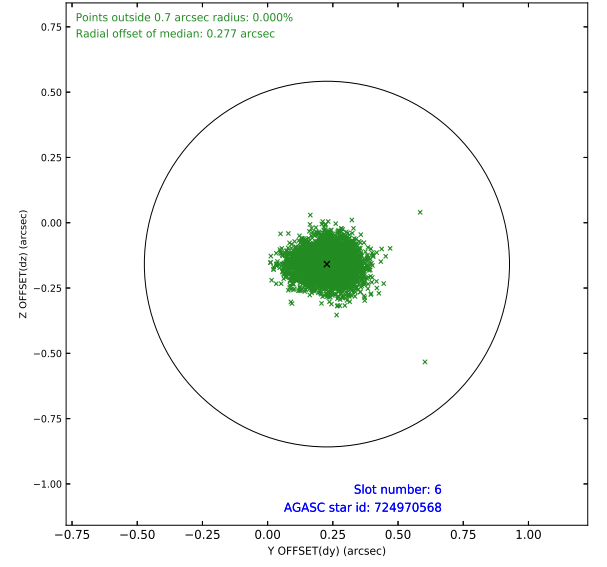
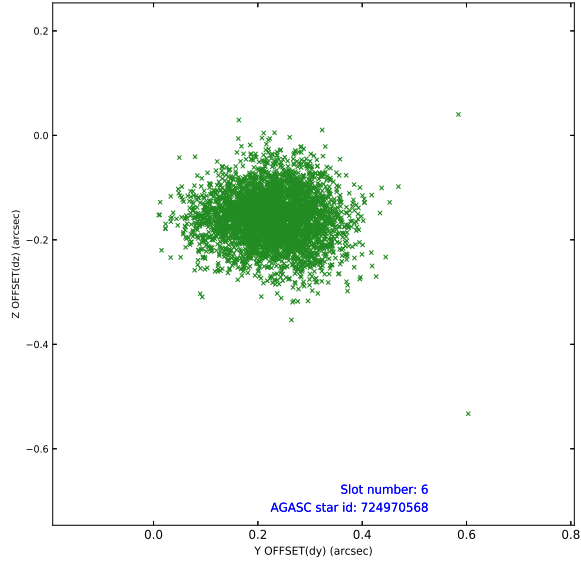
2.4.2 Slot 4



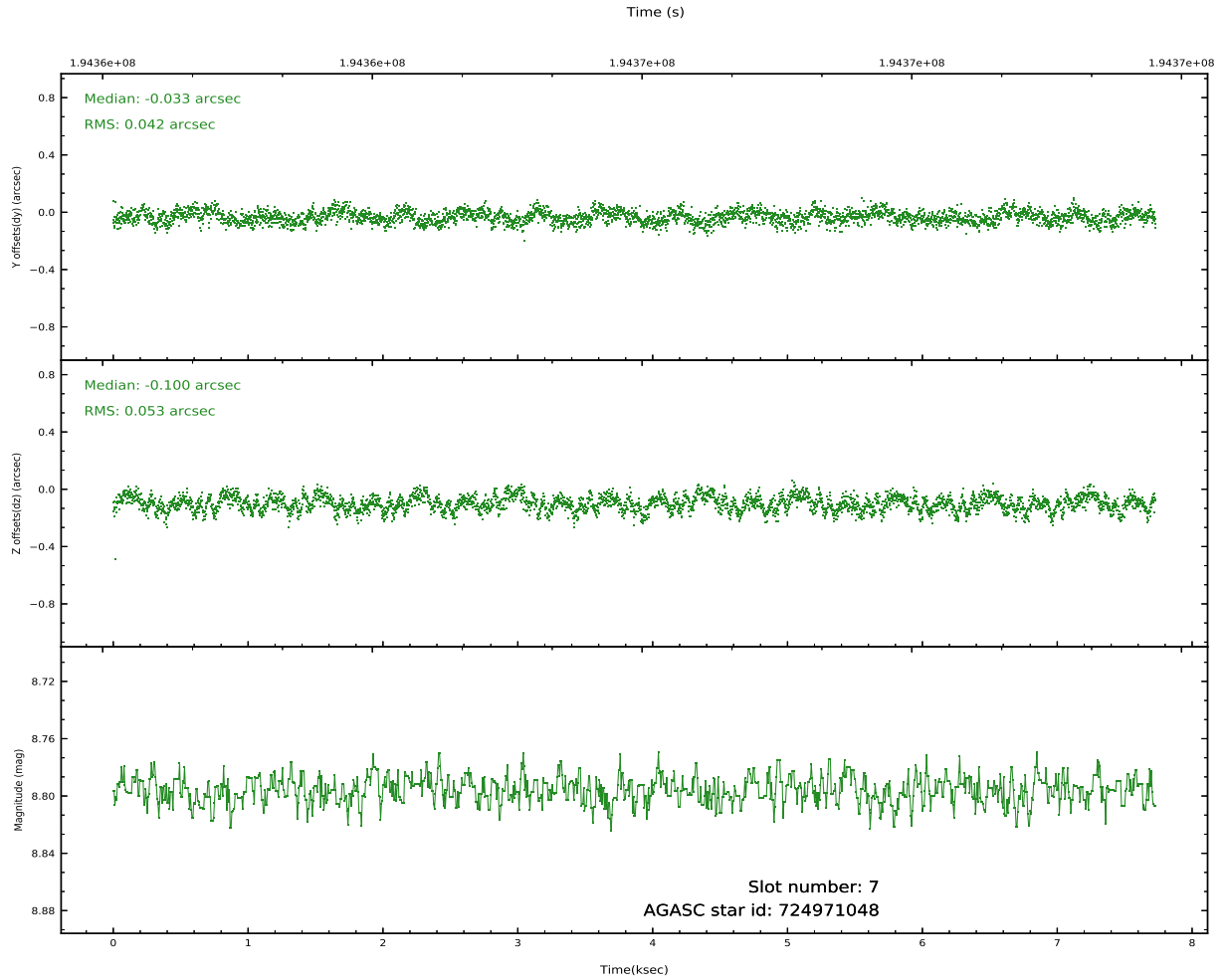
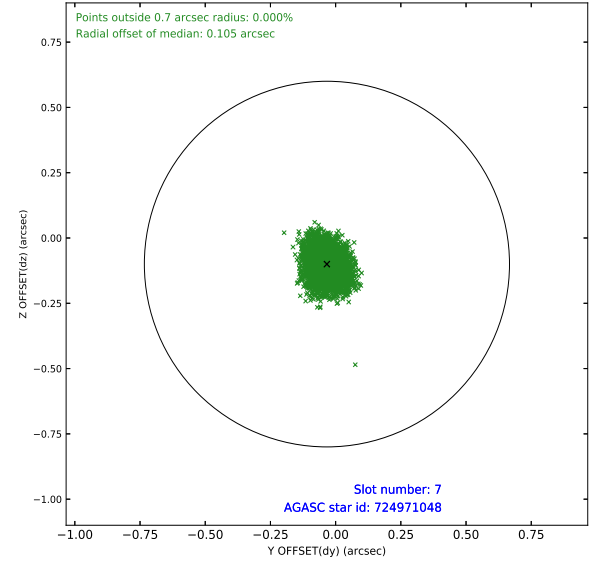
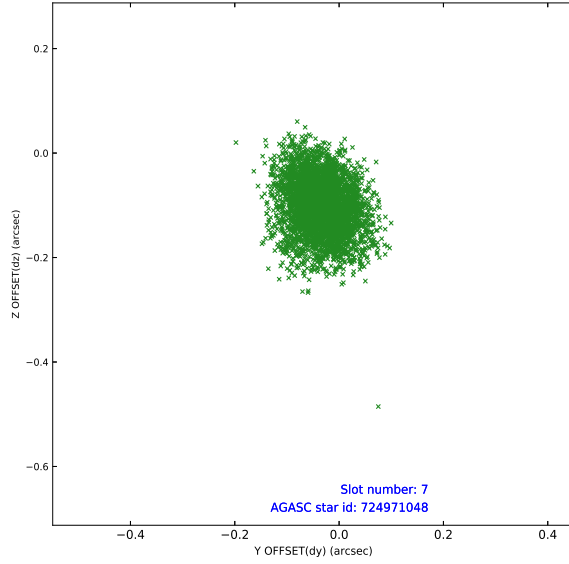
2.4.3 Slot 5



2.4.4 Slot 6

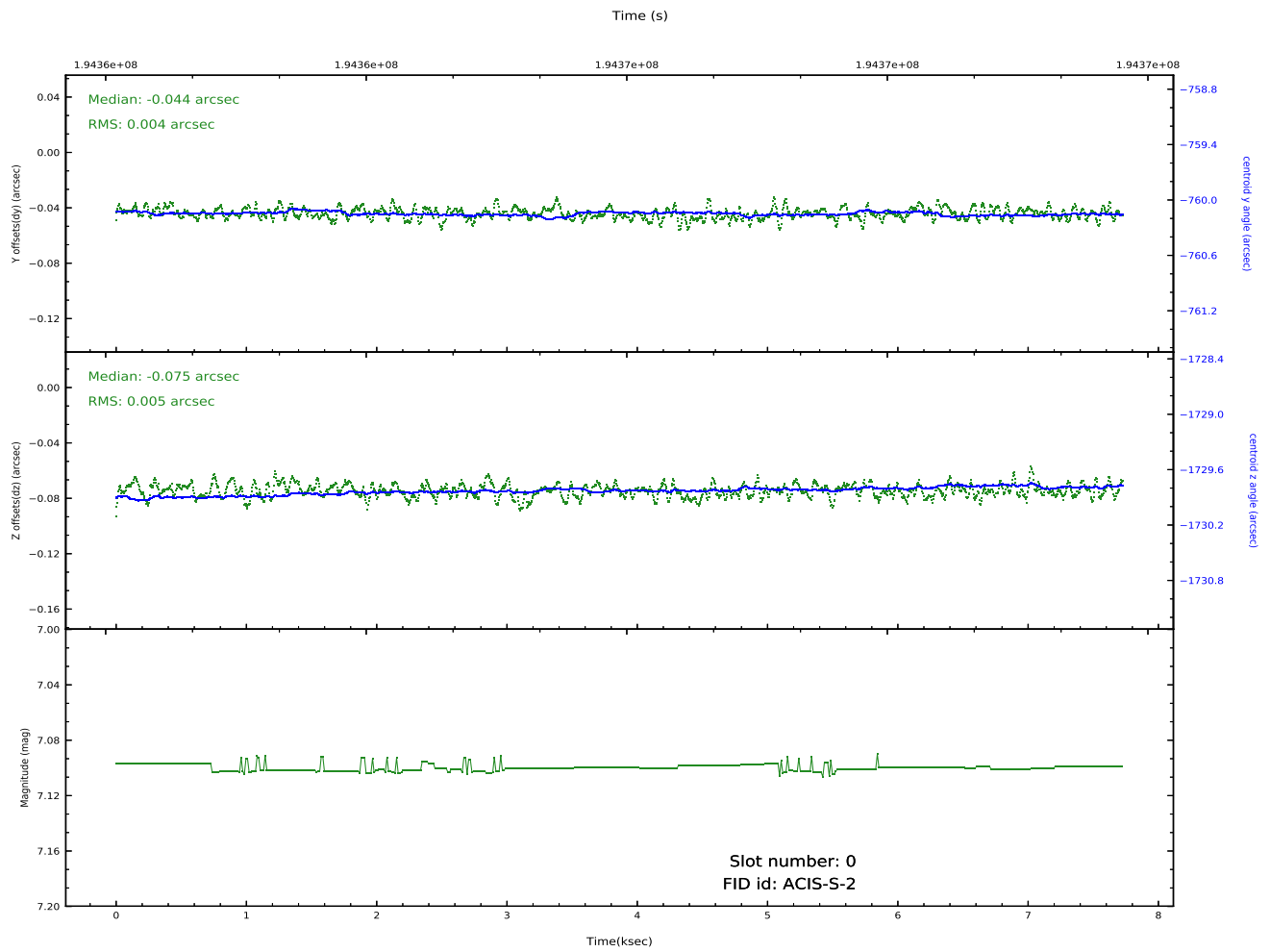
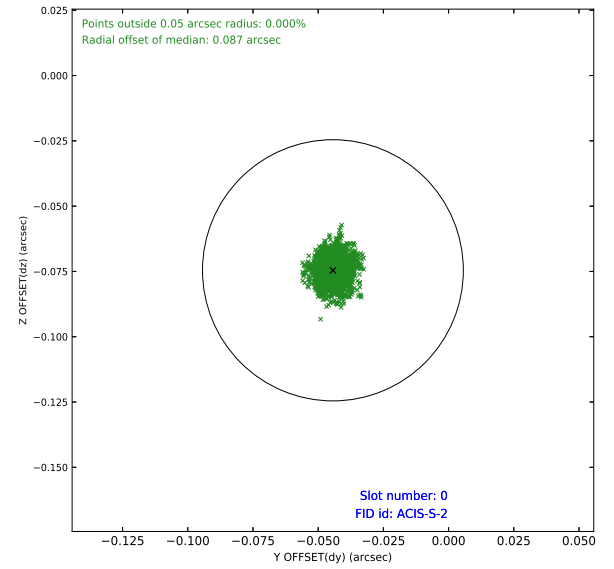
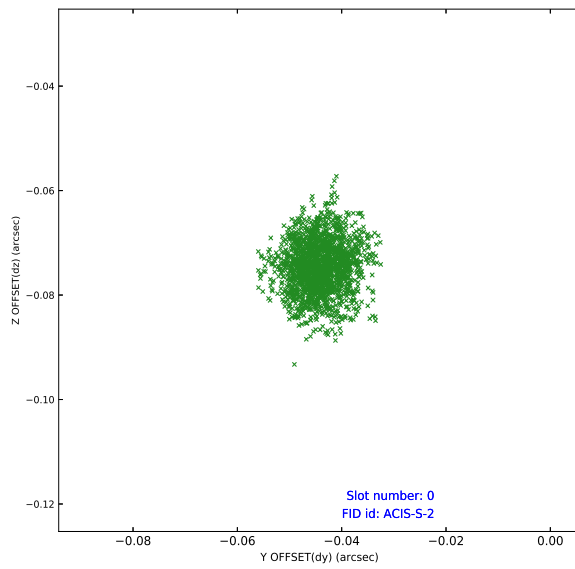


2.4.5 Slot 7

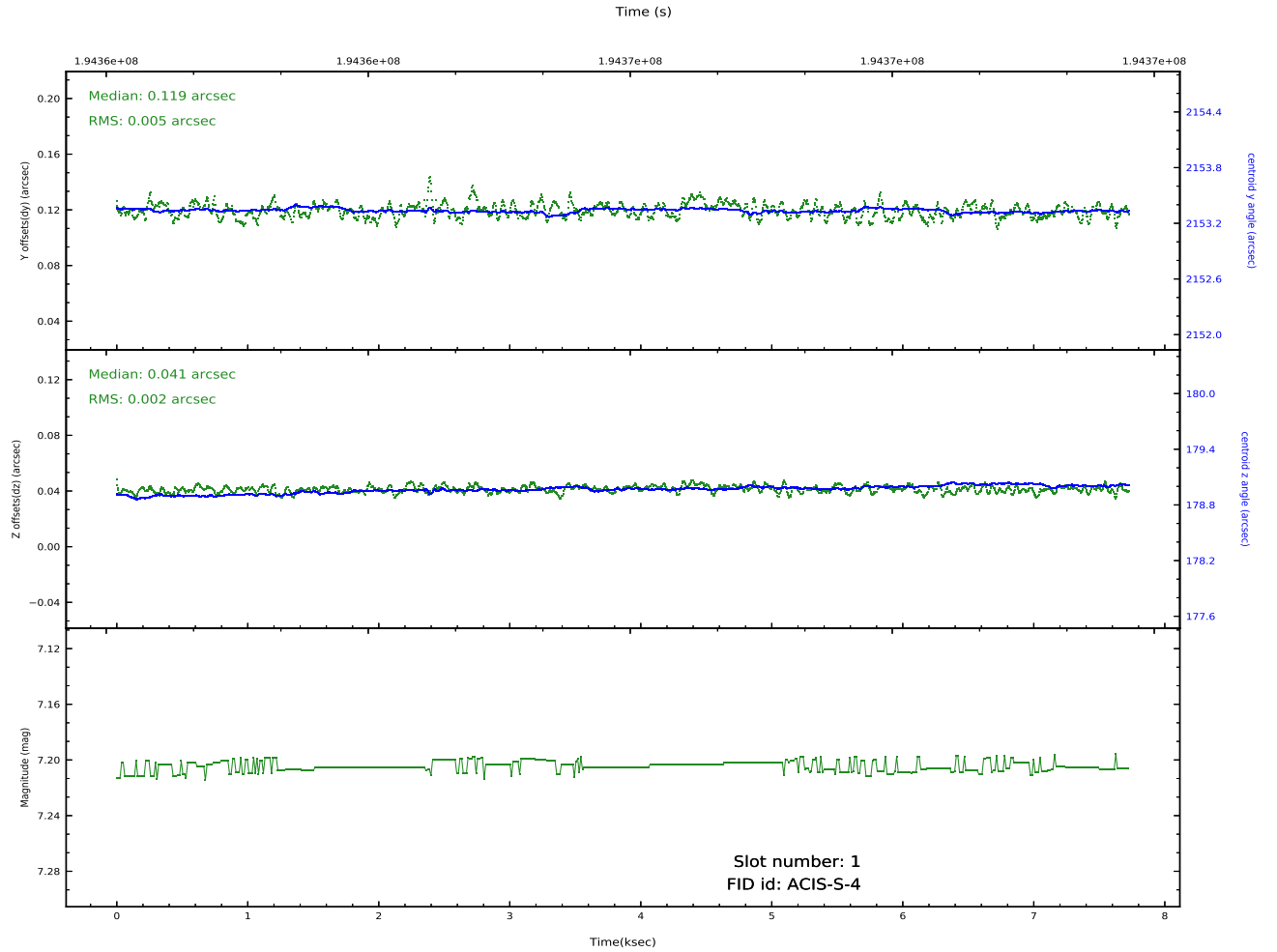
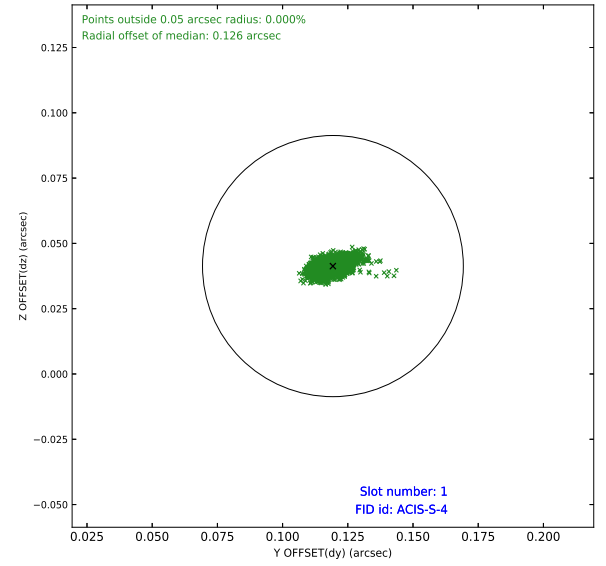
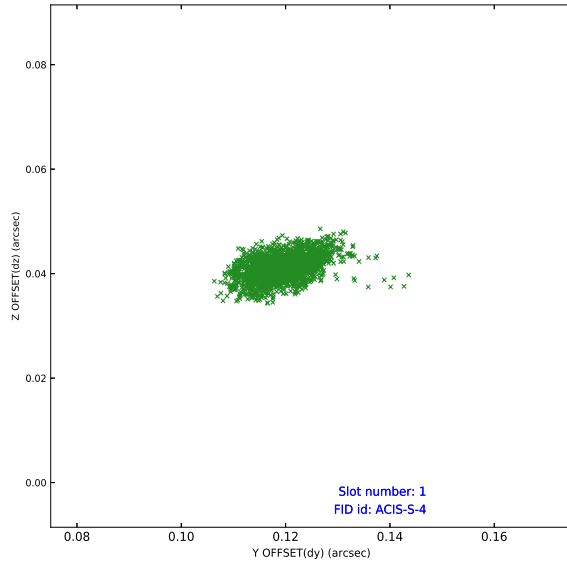


2.5 FID Slots

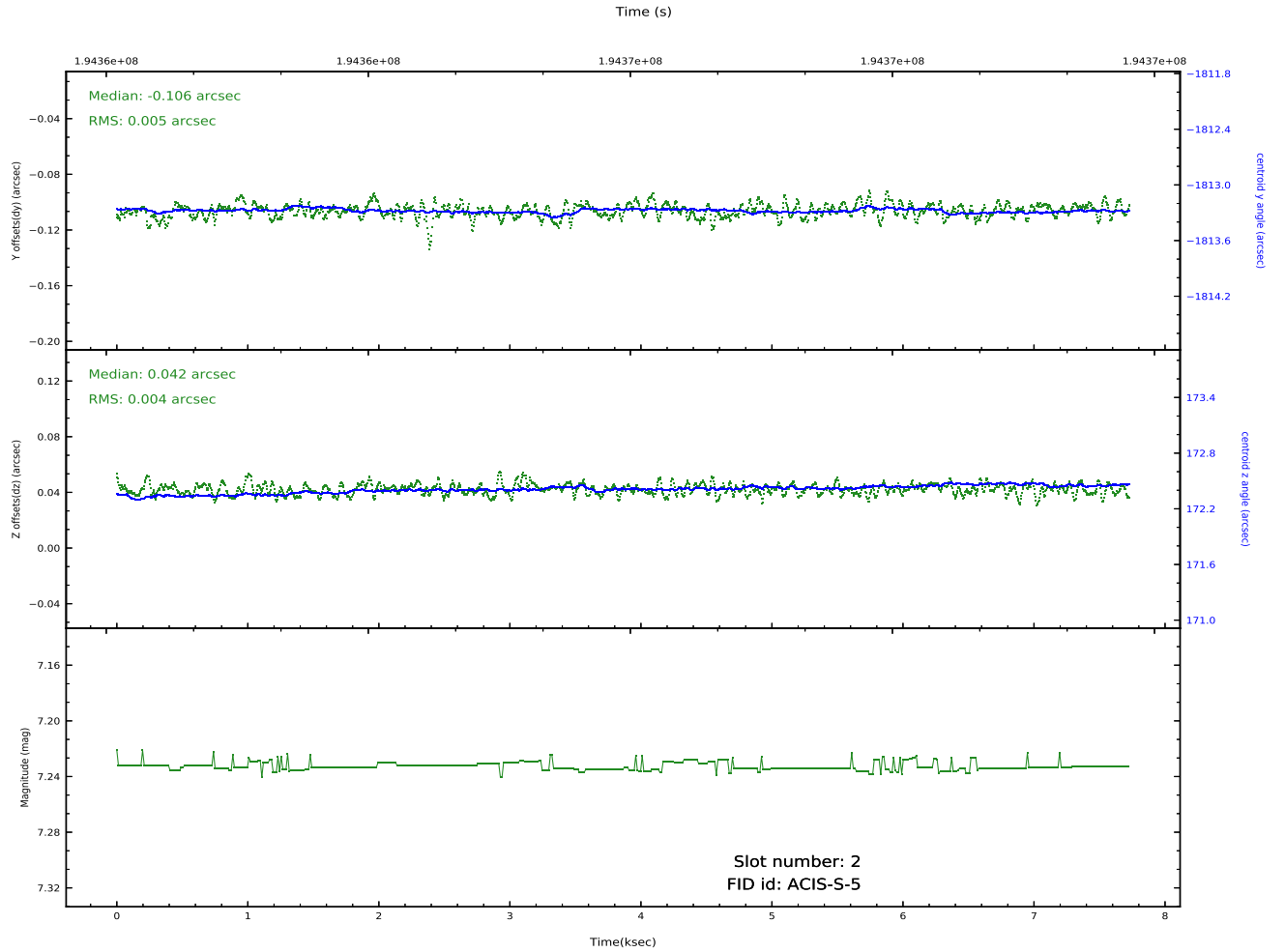
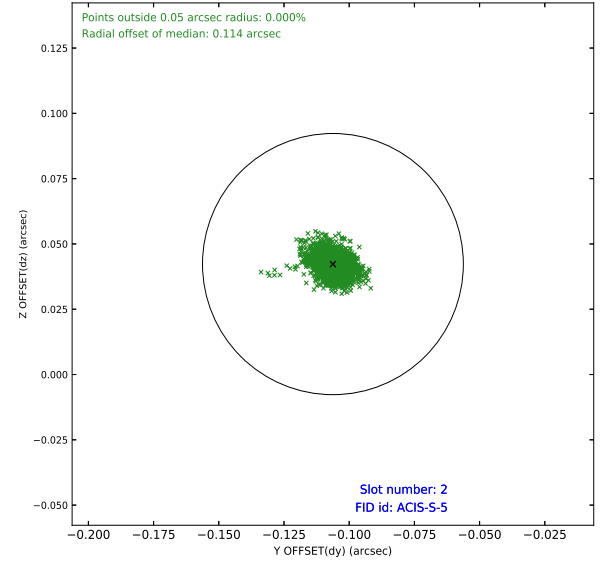
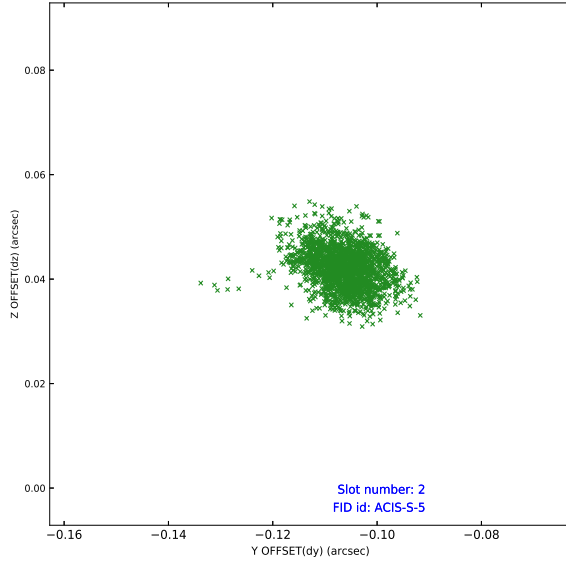
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2020.09.24
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	6.959

A.2 Comments