

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5699 - L2 Version 4
Chandra X-Ray Center

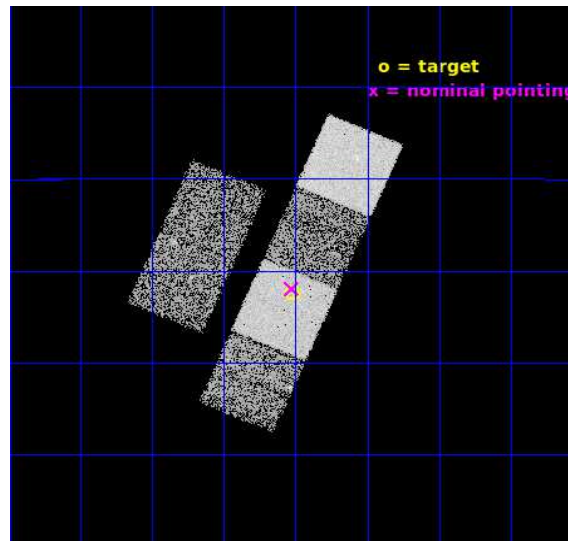
L2 Processing Date : Oct 9 2020

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

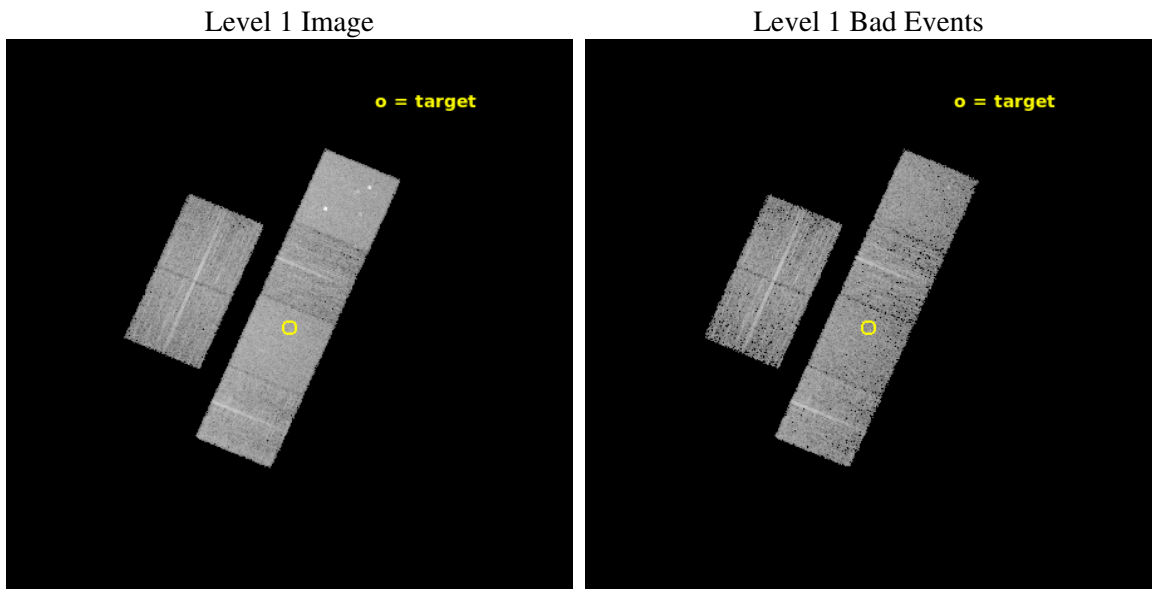
seq_num	701121	Sequence number
obs_id	5699	Observation id
title	Studying the X-ray properties of SDSS candidate Type II quasars with exploratory Chandra observations	Proposal title
observer	Cristian Vignali	Principal investigator
object	SDSS J235831.16-002226.5	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	359.63	Observer's specified target RA [deg]
dec_targ	-0.374028	Observer's specified target Dec [deg]
ra_nom	359.63138486715	Nominal RA [deg]
dec_nom	-0.36565816991788	Nominal Dec [deg]
roll_nom	113.32948410975	Nominal Roll [deg]
revision	4	Processing version of data
ontime	6348.7999763489	Sum of GTIs [s]
livetime	6268.40764826	Livetime [s]
ontime2	6348.7999763489	Sum of GTIs [s]
ontime3	6348.7999763489	Sum of GTIs [s]
ontime5	6348.7999763489	Sum of GTIs [s]
ontime6	6348.7999763489	Sum of GTIs [s]
ontime7	6348.7999763489	Sum of GTIs [s]
ontime8	6348.7999763489	Sum of GTIs [s]
l2events	70272	Number of level 2 events



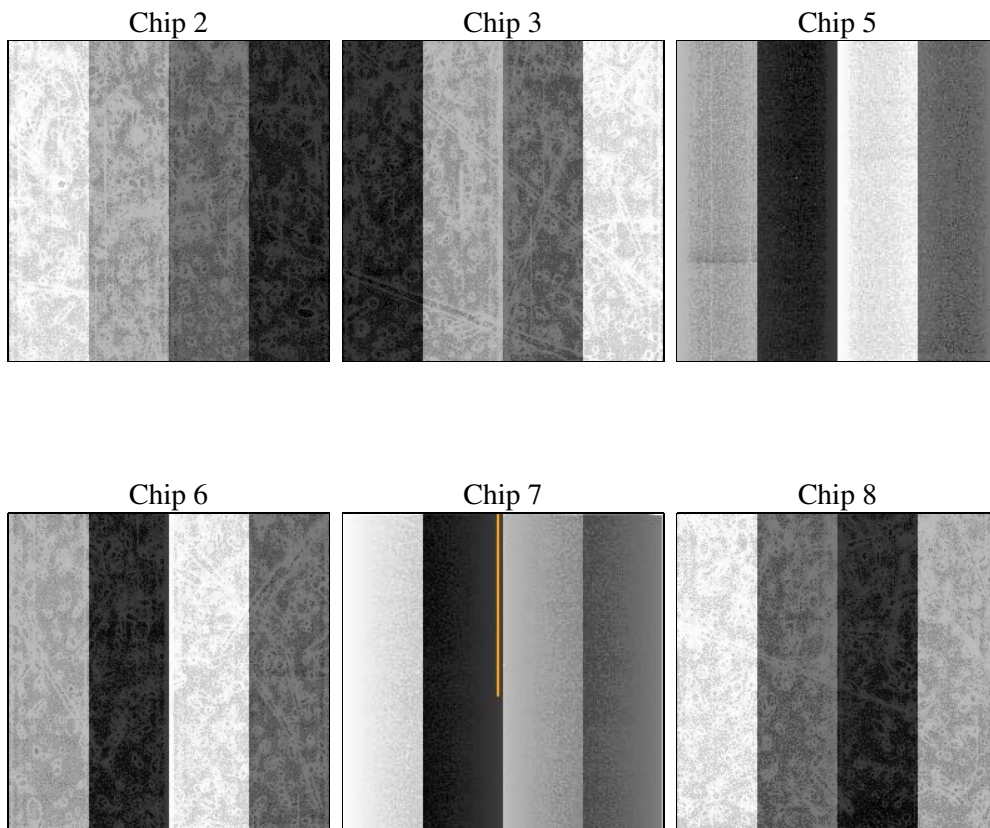
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	6216.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	6348.7999763489	Sum of GTIs [s]
caldsver	4.9.2	 	ontime2	6348.7999763489	Sum of GTIs [s]
date	2020-10-09T18:04:59	Date and time of file creation	ontime3	6348.7999763489	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	6348.7999763489	Sum of GTIs [s]
			ontime6	6348.7999763489	Sum of GTIs [s]
			ontime7	6348.7999763489	Sum of GTIs [s]
			ontime8	6348.7999763489	Sum of GTIs [s]
			l1events	357143	Number of level 1 events

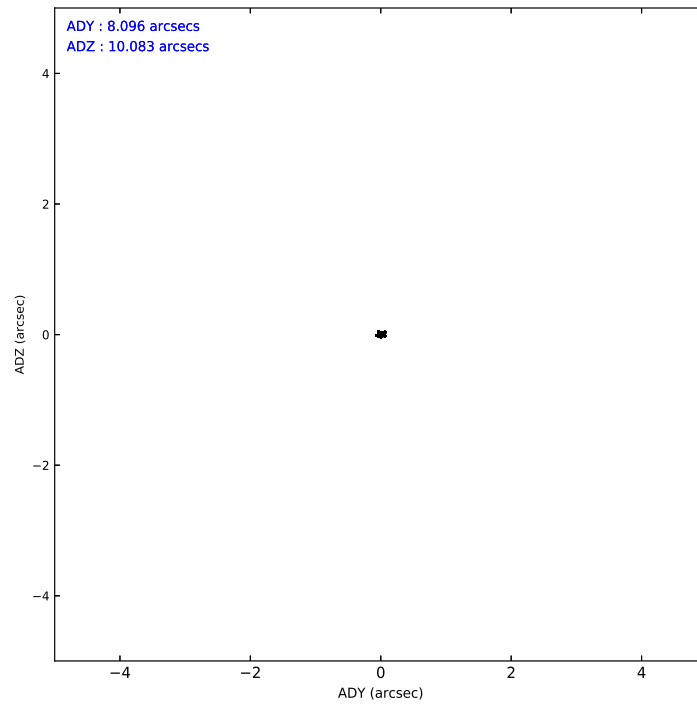
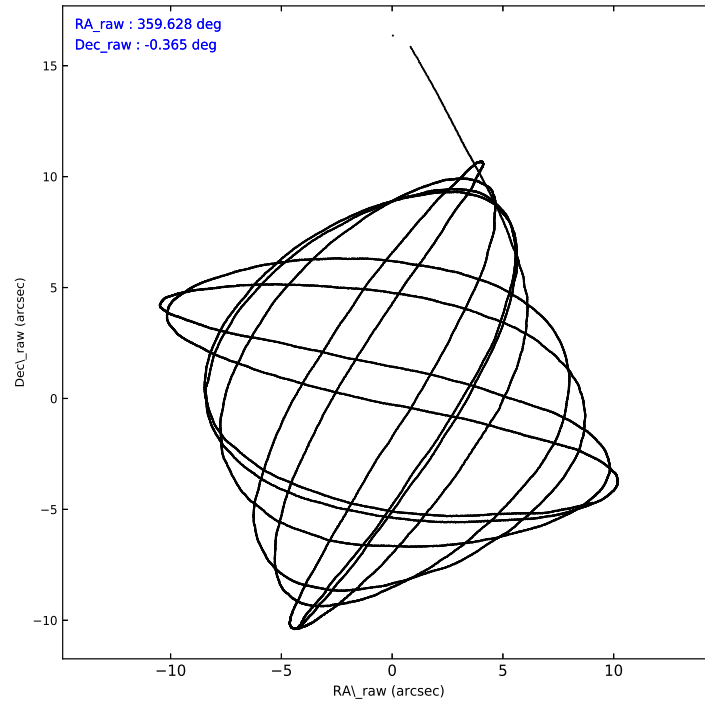
2.1.4 Events

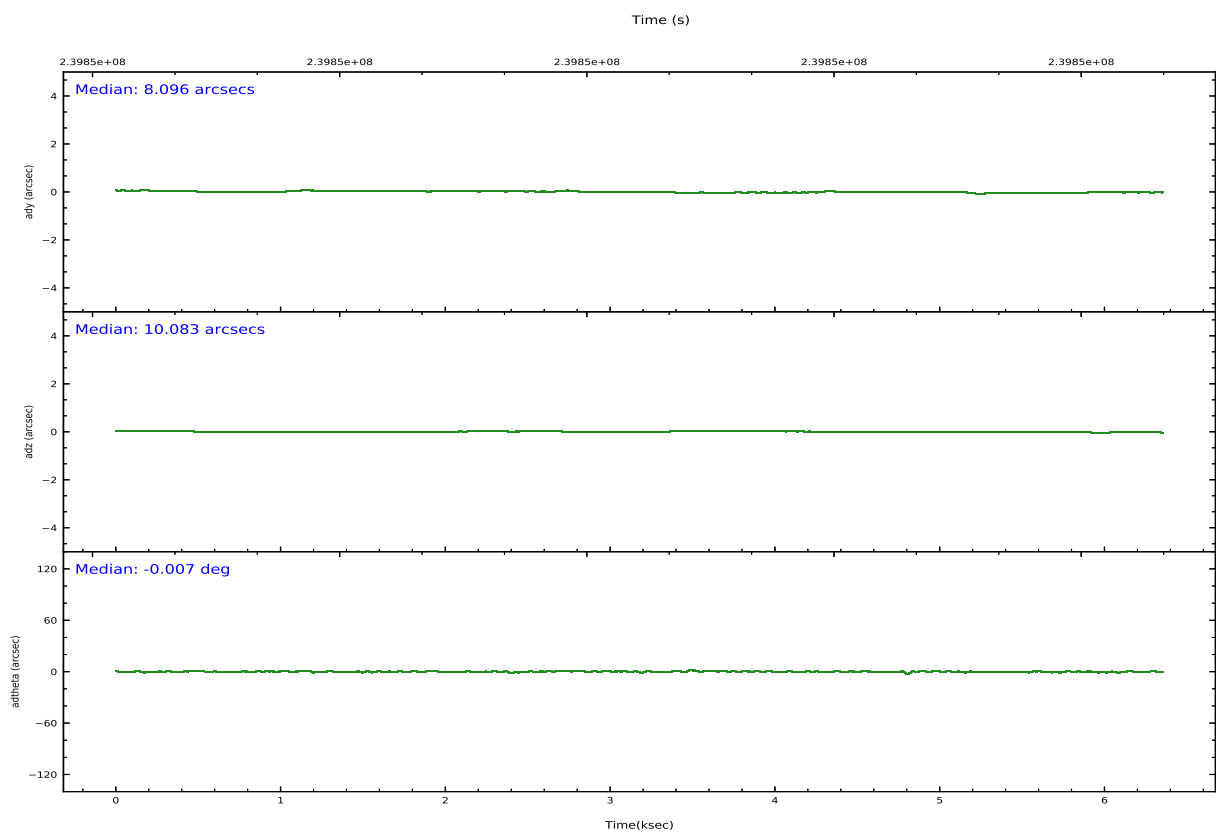
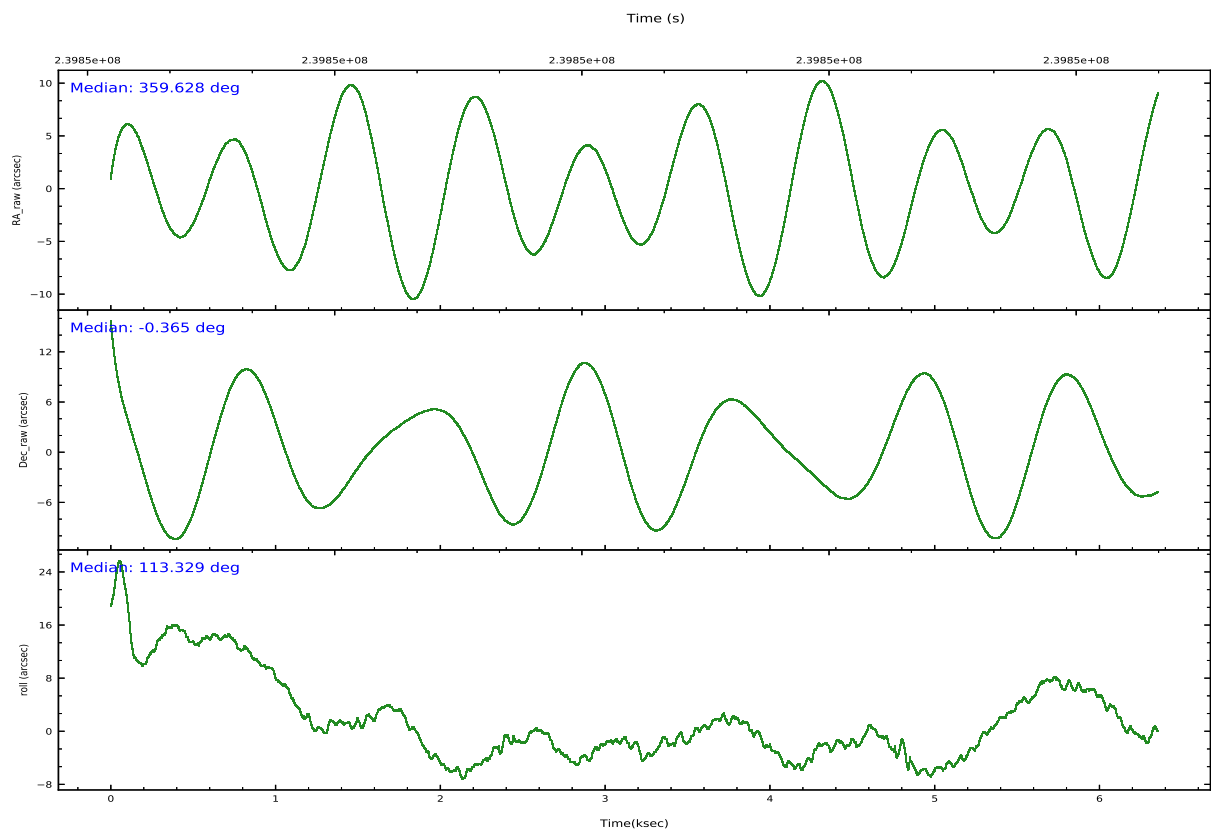
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	50726	47595	78109	49982	68908	61823	grade 0 events	2715	2597	5422	2342	2557	4343
rejected events	45570	42456	46605	44754	44467	50213		5%	5%	6%	4%	3%	7%
rejected %	89%	89%	59%	89%	64%	81%	grade 1 events	36	43	234	28	67	31
								0%	0%	0%	0%	0%	0%
							grade 2 events	1221	1081	10251	1304	5744	2882
								2%	2%	13%	2%	8%	4%
							grade 3 events	563	587	1326	557	2523	1341
								1%	1%	1%	1%	3%	2%
							grade 4 events	578	610	1295	606	2419	1319
								1%	1%	1%	1%	3%	2%
							grade 5 events	2037	2350	5408	2344	6523	3065
								4%	4%	6%	4%	9%	4%
							grade 6 events	970	1000	18193	1225	15042	3476
								1%	2%	23%	2%	21%	5%
							grade 7 events	42606	39327	35980	41576	34033	45366
								83%	82%	46%	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	359.649847	359.63138486715	Subarray requested	NONE	NONE
[deg] Pointing Dec	-0.380581	-0.36565816991788	Alternating exposures requested	N	N
[deg] Pointing Roll	113.175492	113.32948410975	[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	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	239848281.184000	239846591.03475			
Observation start date	2005-08-08T00:30:17	2005-08-08T00:03:11			
[s] Observation end time (MET)	239854497.184000	239855872.92267			
Observation end date	2005-08-08T02:13:53	2005-08-08T02:37:52			
Read mode	TIMED	TIMED			

2.3 Aspect



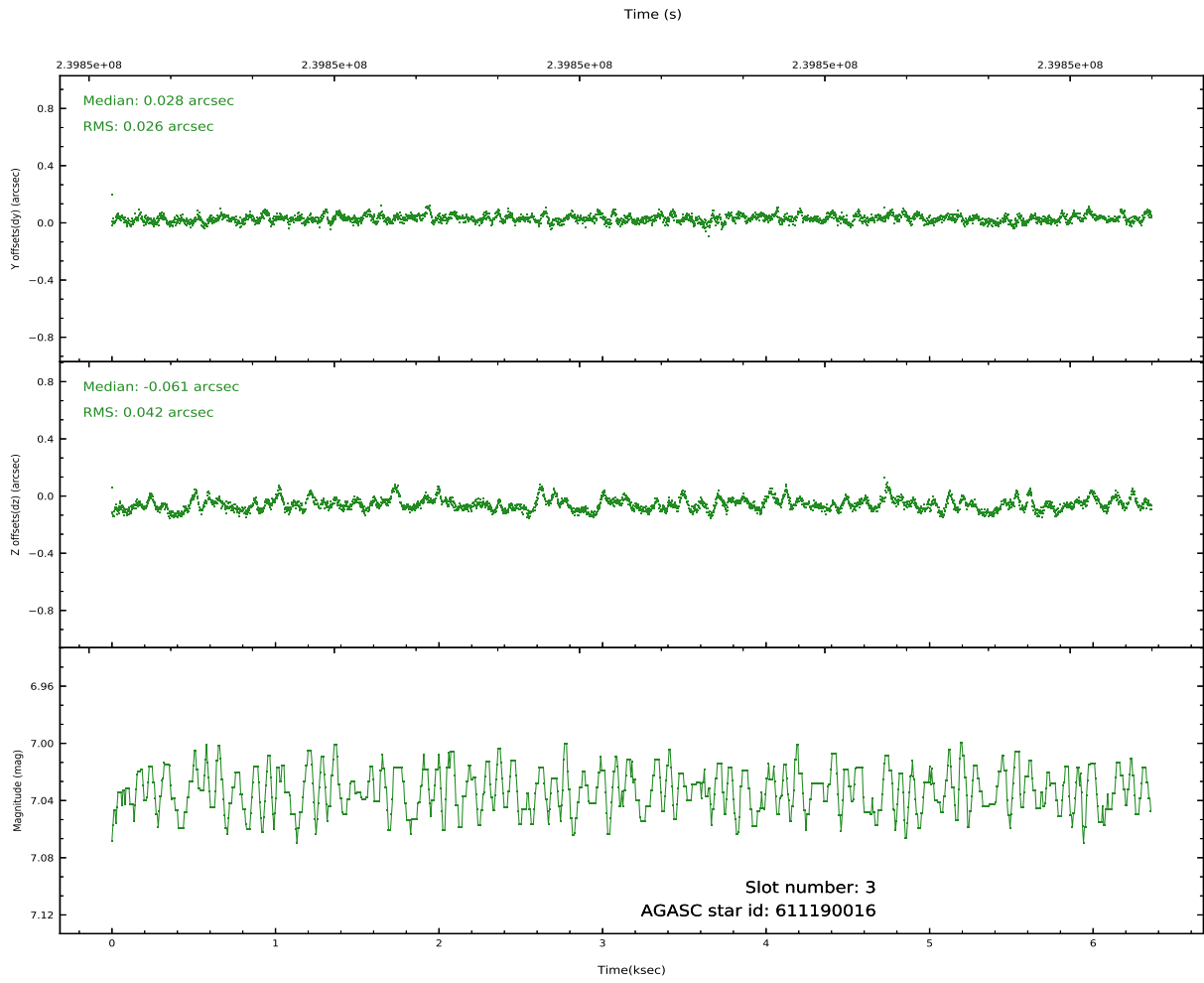
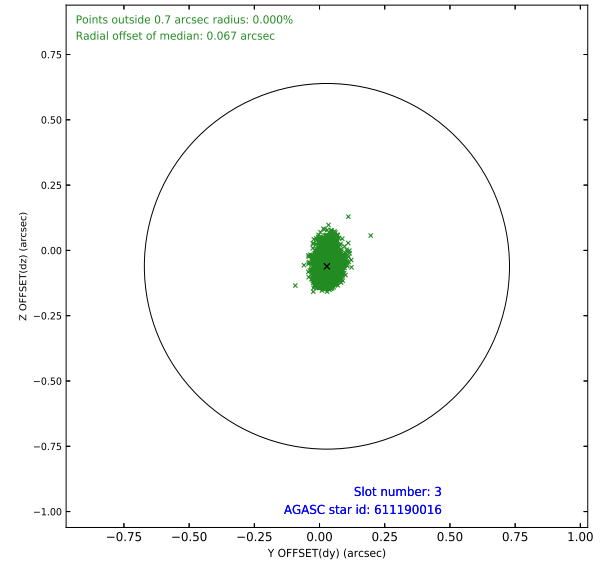
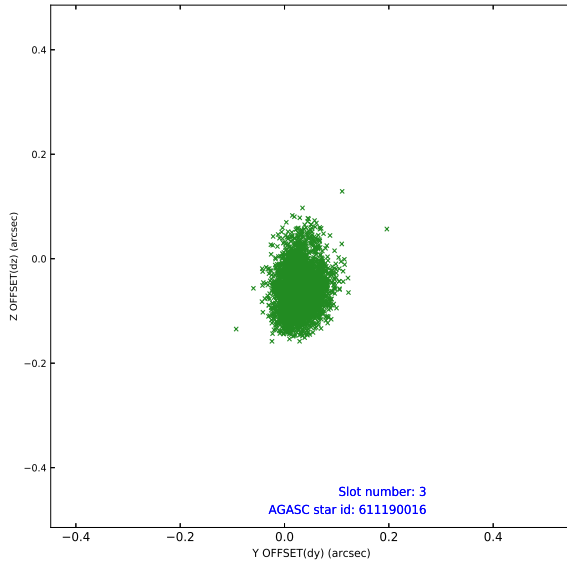


Slot Statistics

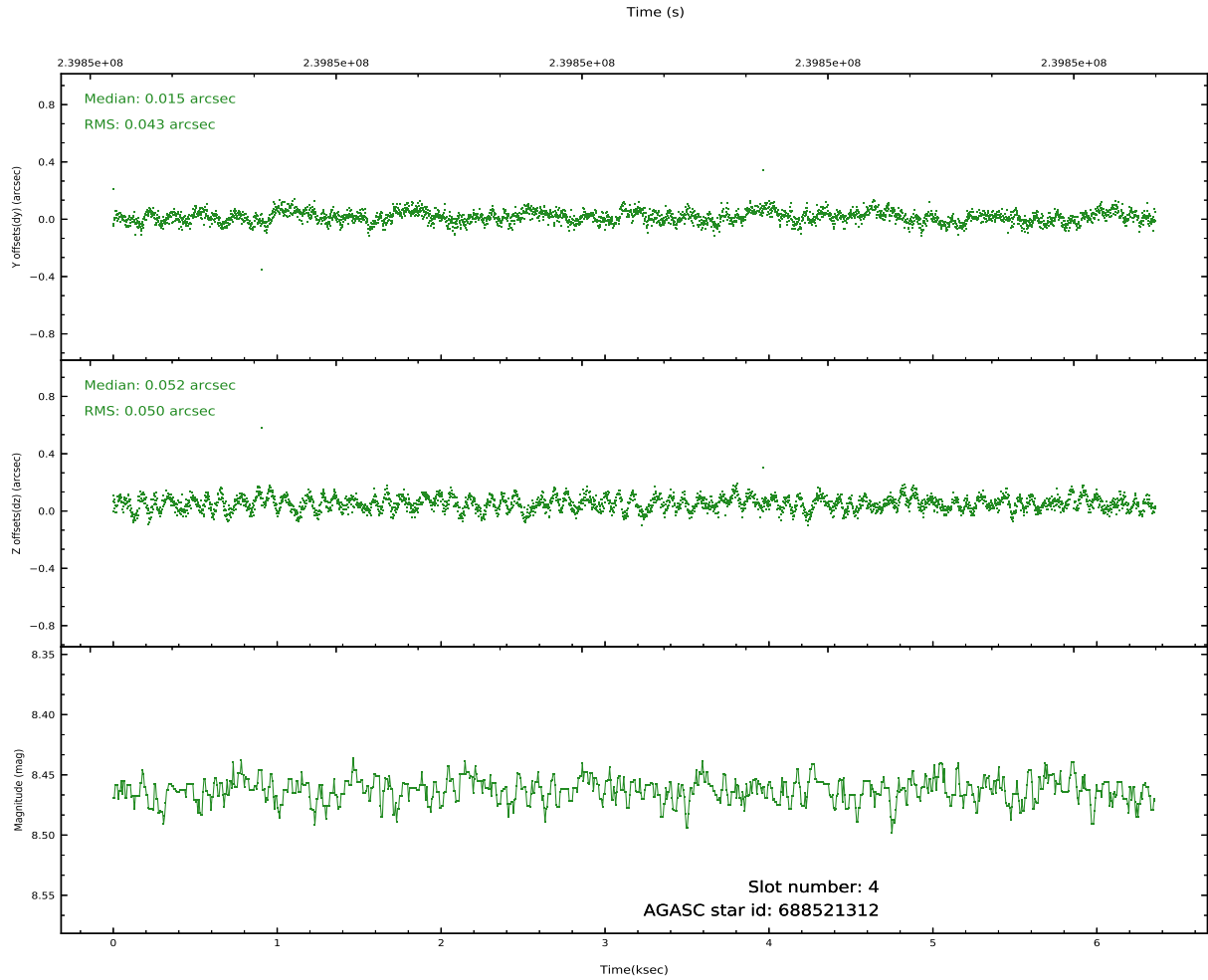
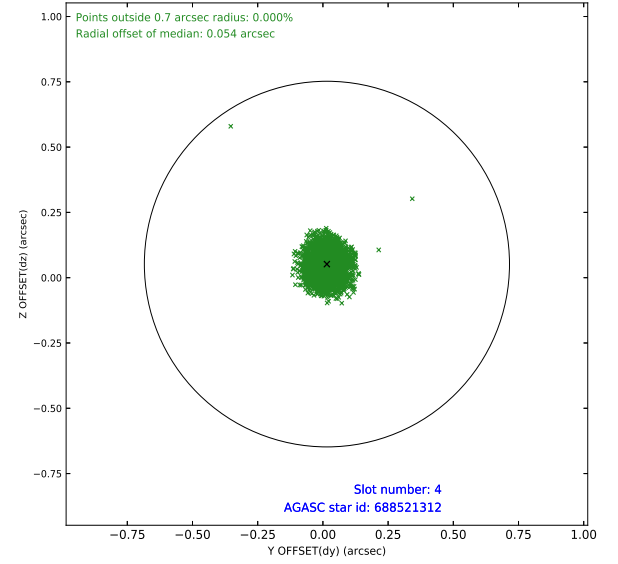
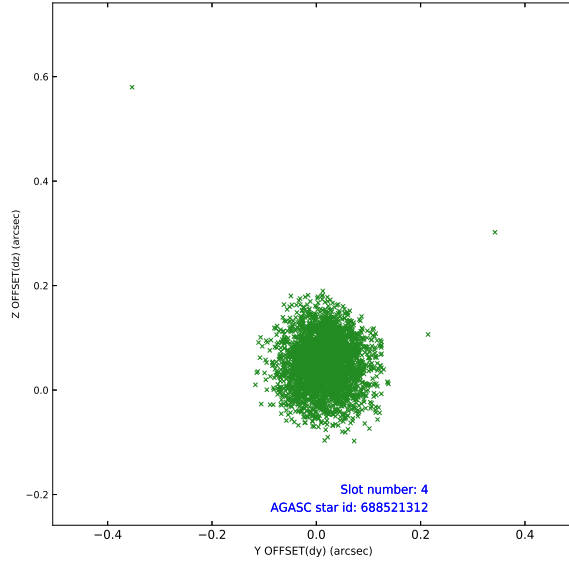
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-1	7.19	1550	1.000	0.105	-0.045	0.006	0.010	0.000000	0.000000	935.31	-1726
1	FID		ACIS-S-2	7.11	1551	1.000	-0.038	-0.022	0.007	0.010	0.000000	0.000000	-760.22	-1732
2	FID		ACIS-S-5	7.24	1550	1.000	-0.091	0.074	0.006	0.011	0.000000	0.000000	-1814.51	169
3	GUIDE	used	611190016	7.03	3102	1.000	0.028	-0.061	0.050	0.087	0.048423	-0.360457	-497.76	-1347
4	GUIDE	used	688521312	8.46	3101	1.000	0.015	0.052	0.070	0.109	359.794684	-0.499831	-599.70	-310
5	GUIDE	used	688522008	9.07	3099	1.000	0.113	0.061	0.072	0.113	359.793079	-0.583482	-874.40	-186
6	GUIDE	used	688522368	9.63	3100	1.000	-0.062	-0.174	0.101	0.166	359.208550	-0.509657	197.71	1642
7	GUIDE	used	140408	9.40	3098	1.000	-0.098	0.122	0.093	0.146	0.115566	0.205058	1279.23	-2370

2.4 Star Slots

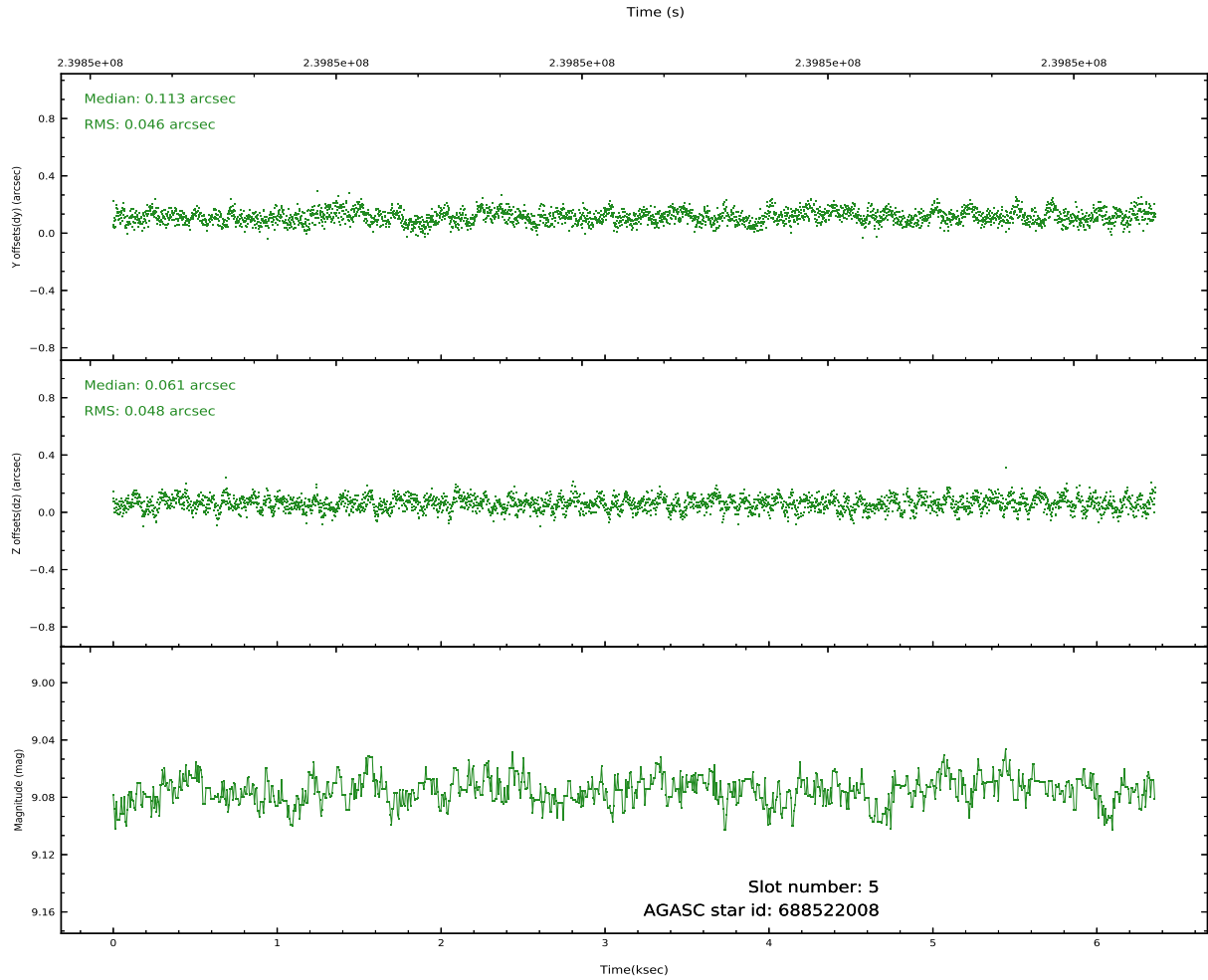
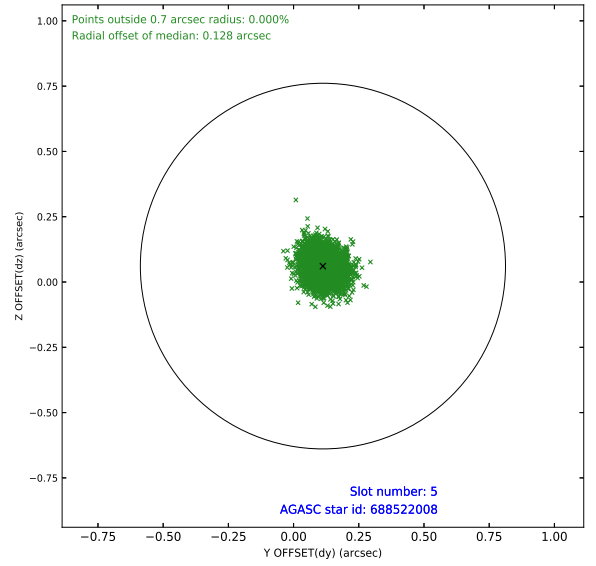
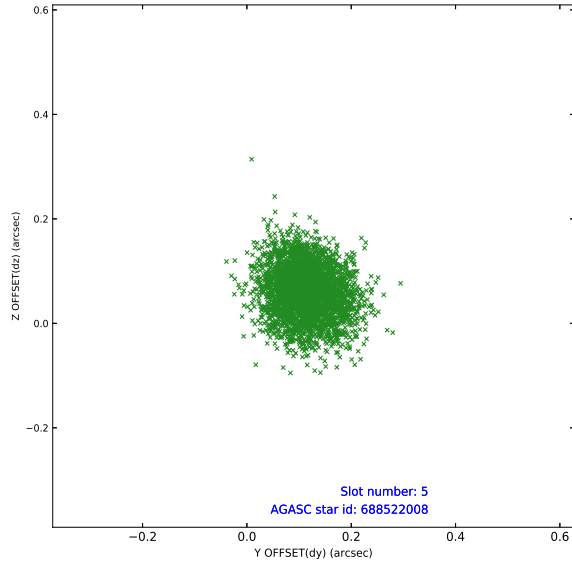
2.4.1 Slot 3



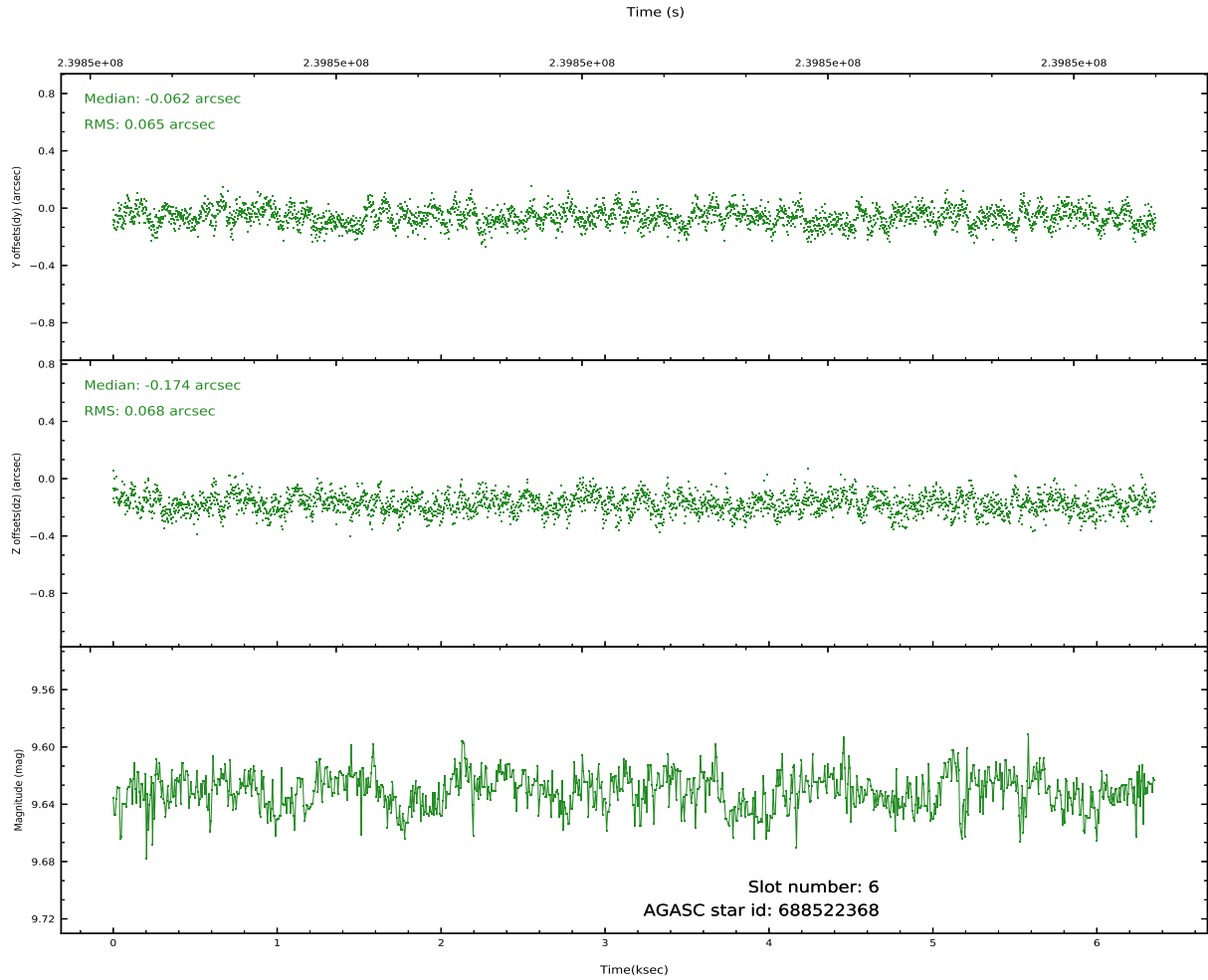
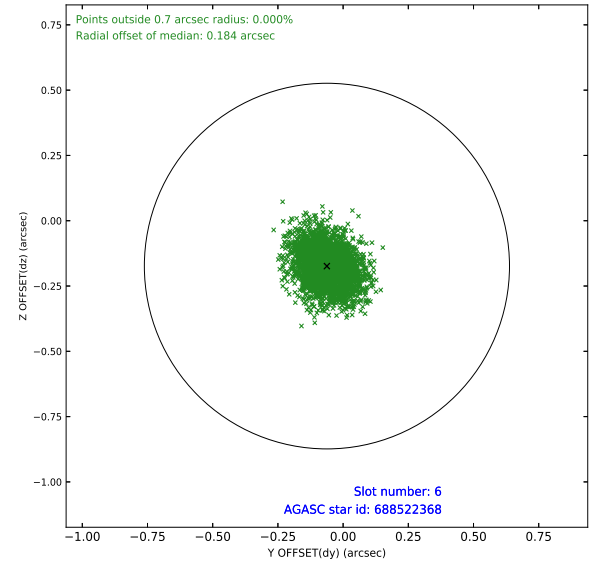
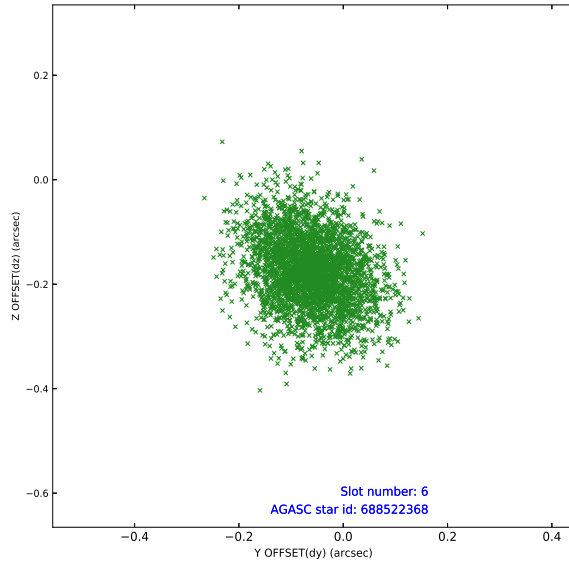
2.4.2 Slot 4



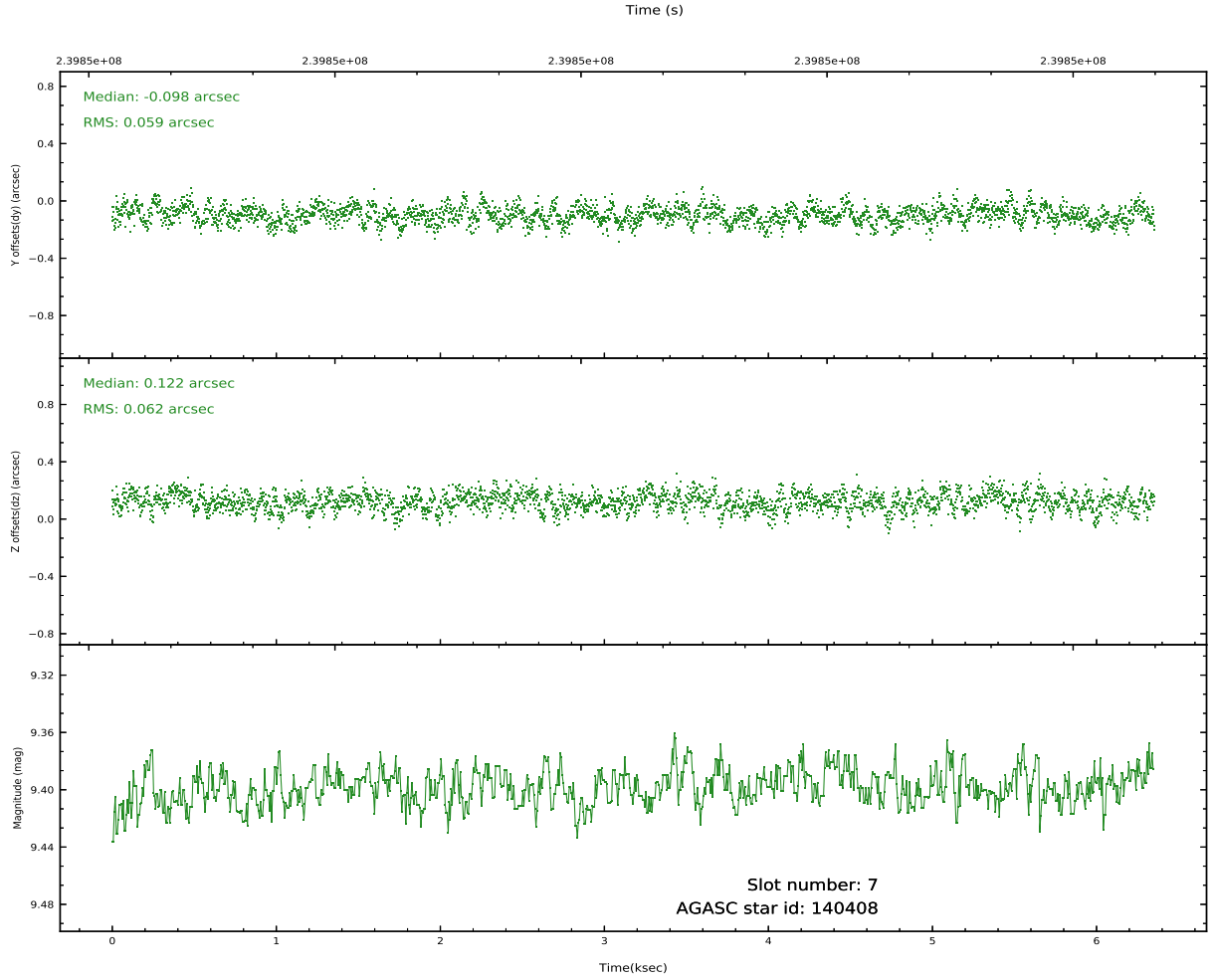
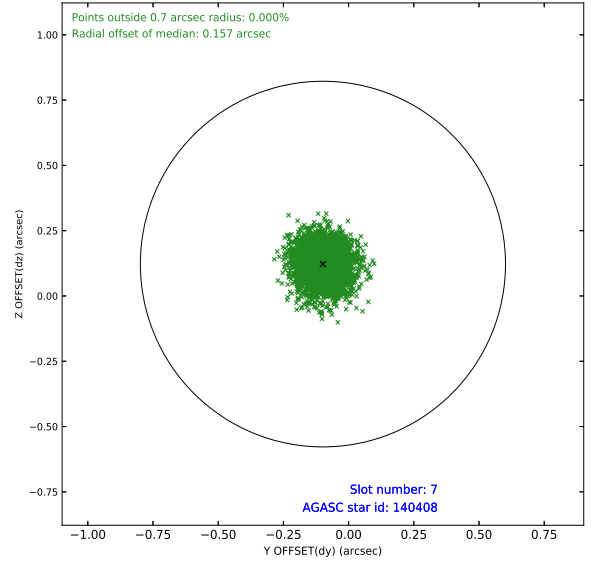
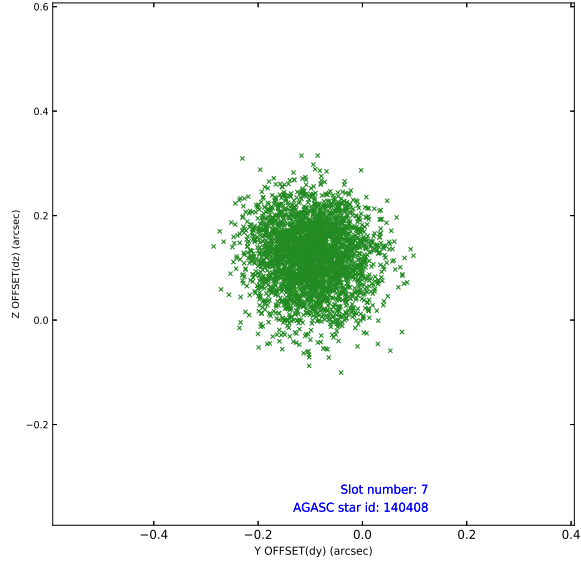
2.4.3 Slot 5



2.4.4 Slot 6

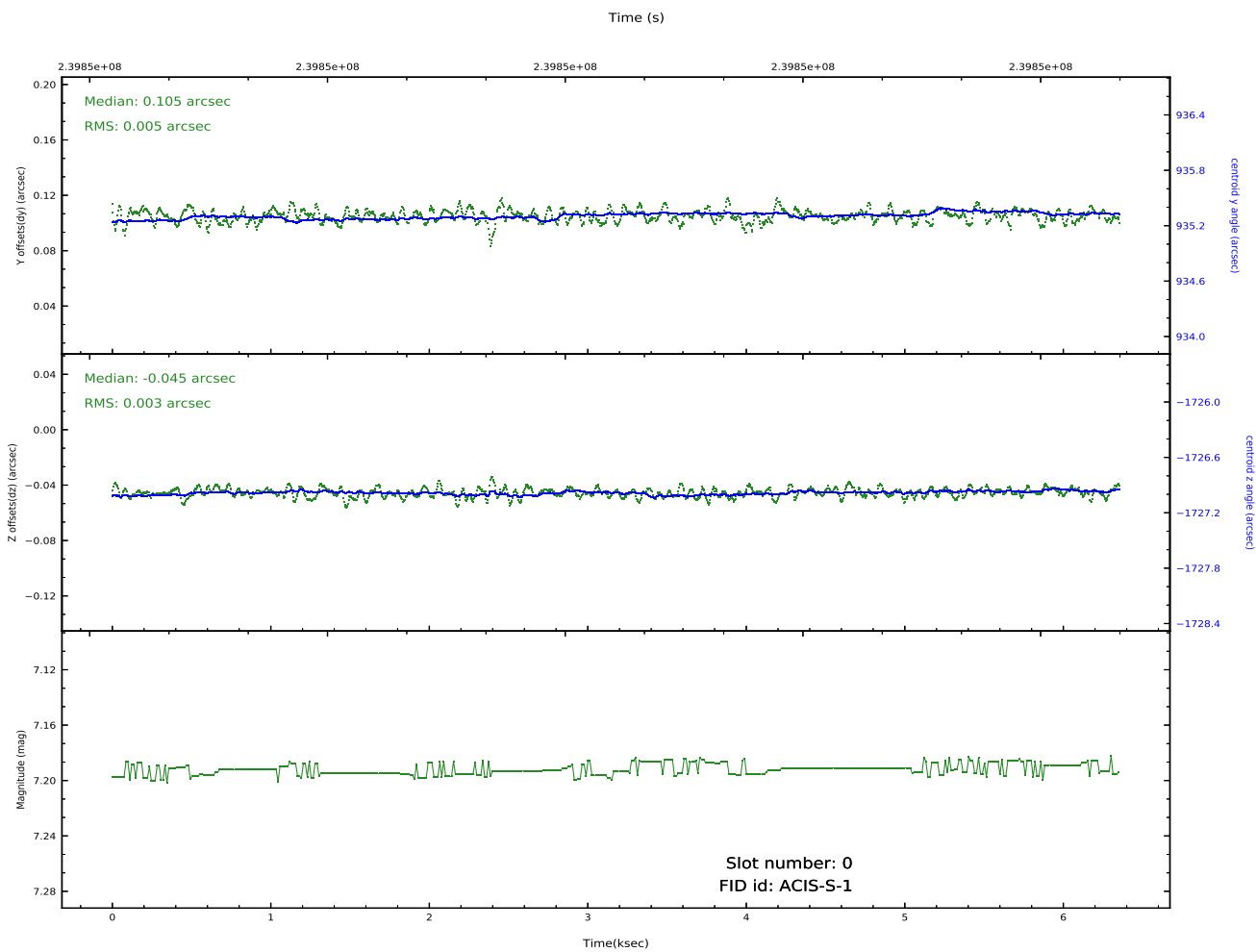
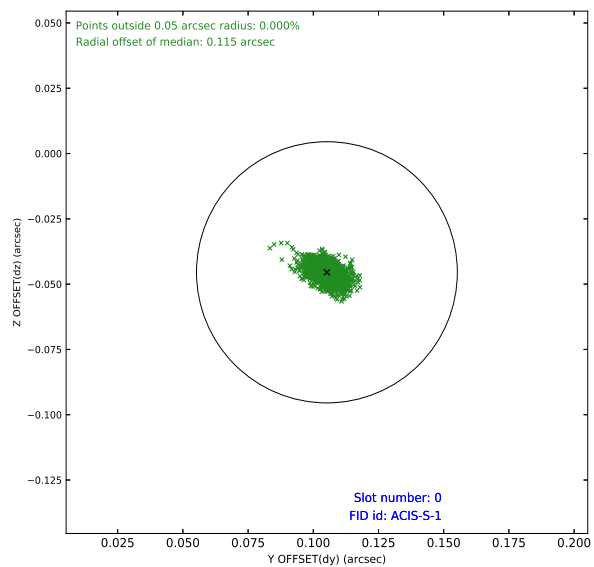
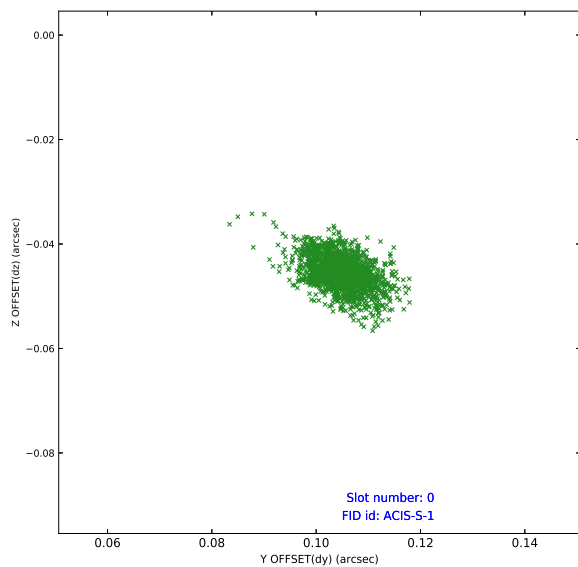


2.4.5 Slot 7

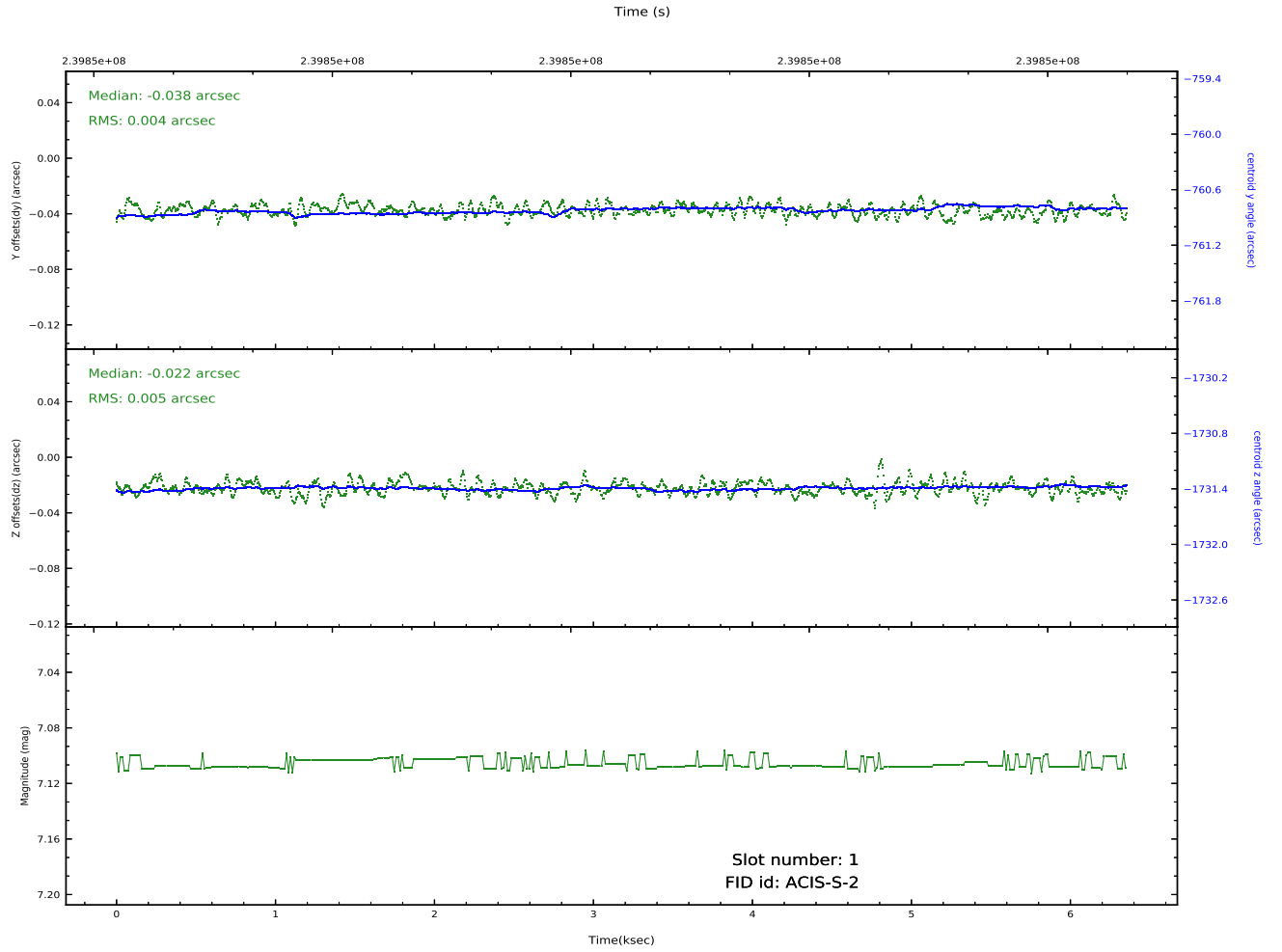
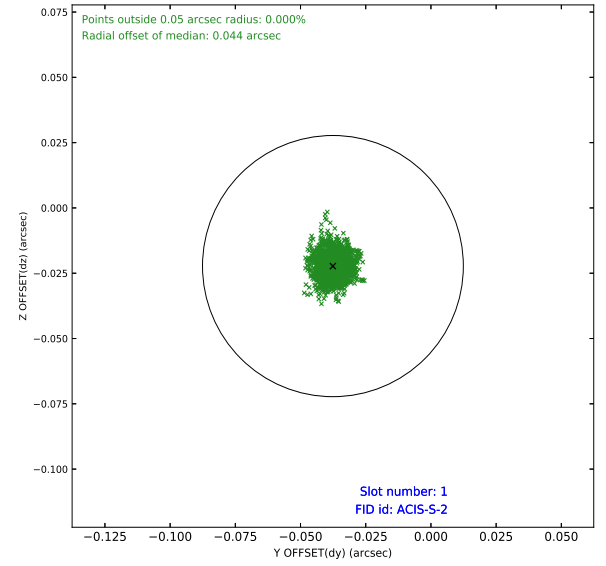
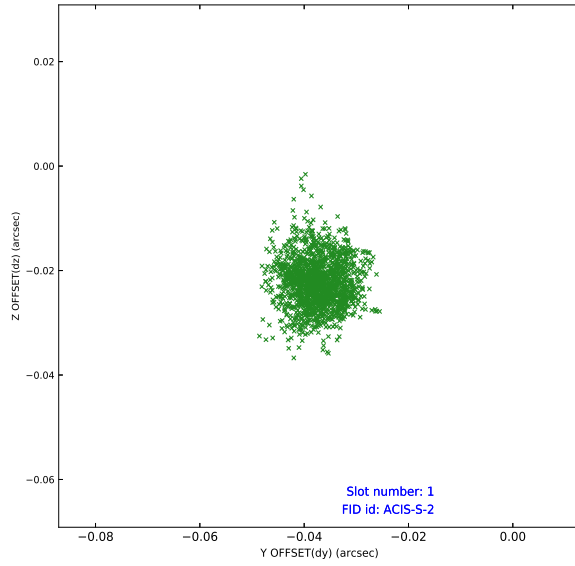


2.5 FID Slots

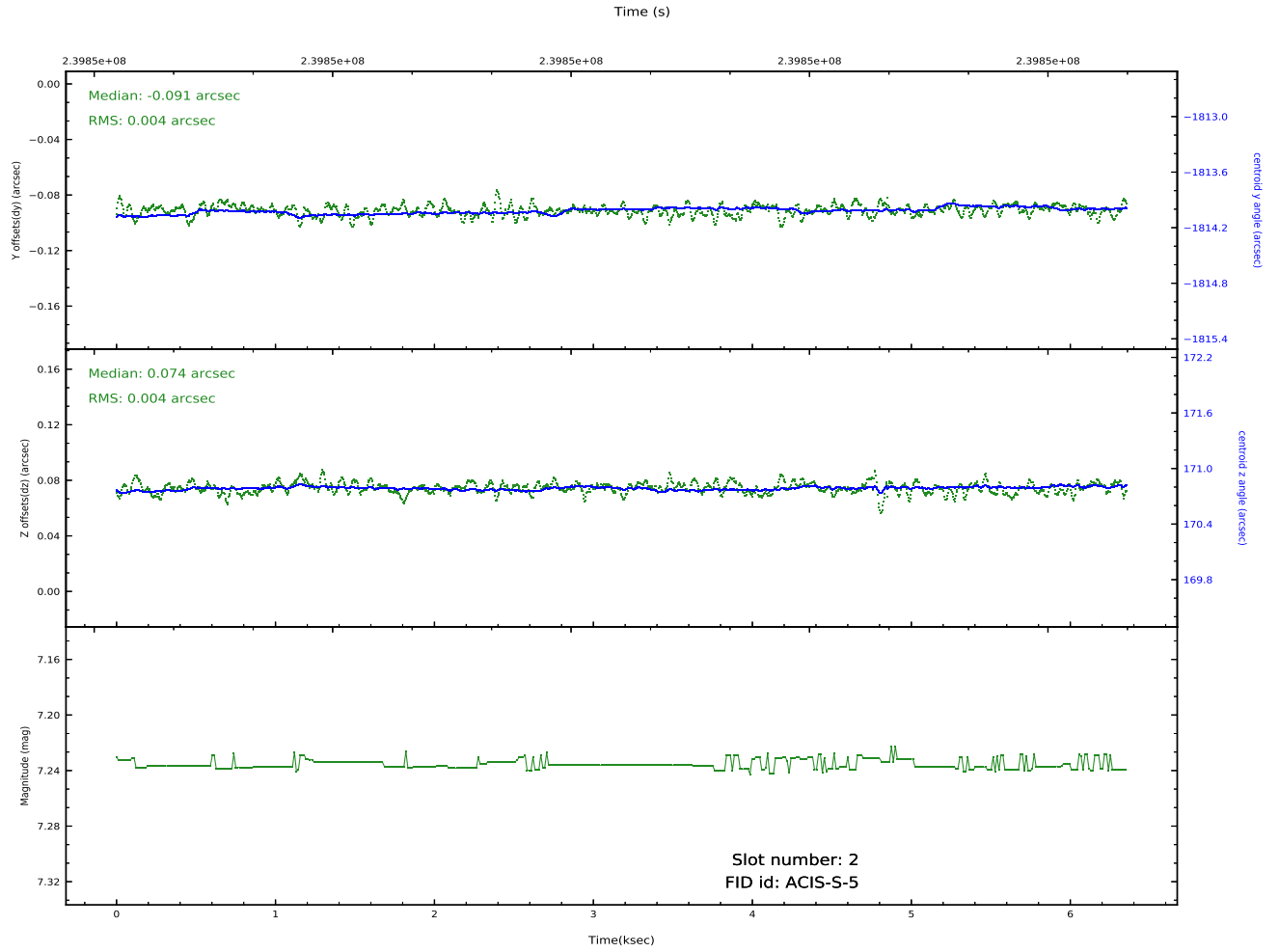
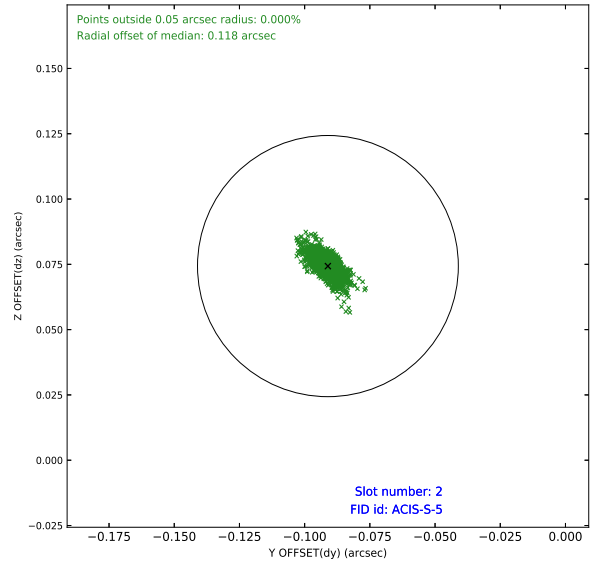
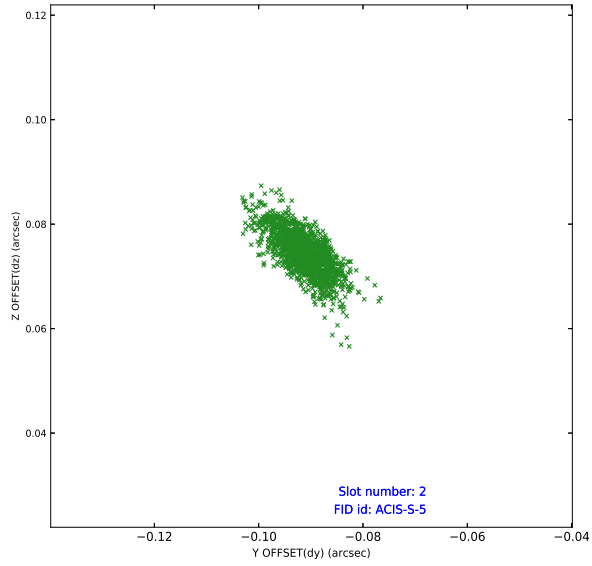
2.5.1 Slot 0



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)	2020.10.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	6.2488

A.2 Comments

Charge time for this observation remains at previous value of 6.2488 ksec, although with the current processing the charge time would have been 6.348 ksec.

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Events were collected on all chips before pointing was stabilized. These events are visible in the Level 1 event file, but are eliminated in the Level 2 event file because they fall outside the valid aspect range.