

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5652 - L2 Version 4
Chandra X-Ray Center

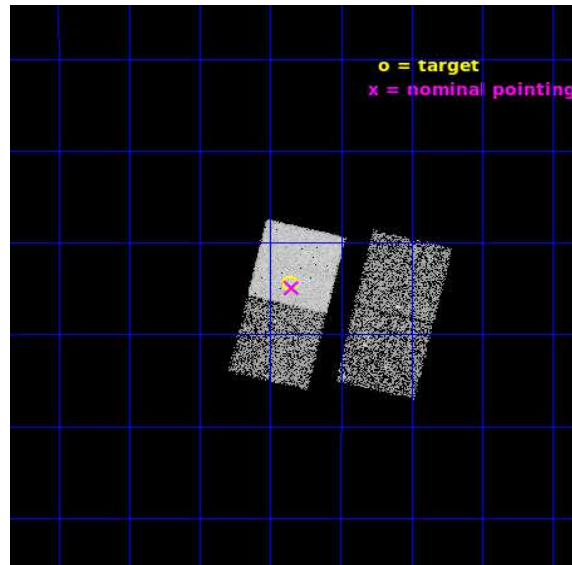
L2 Processing Date : Oct 6 2020

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

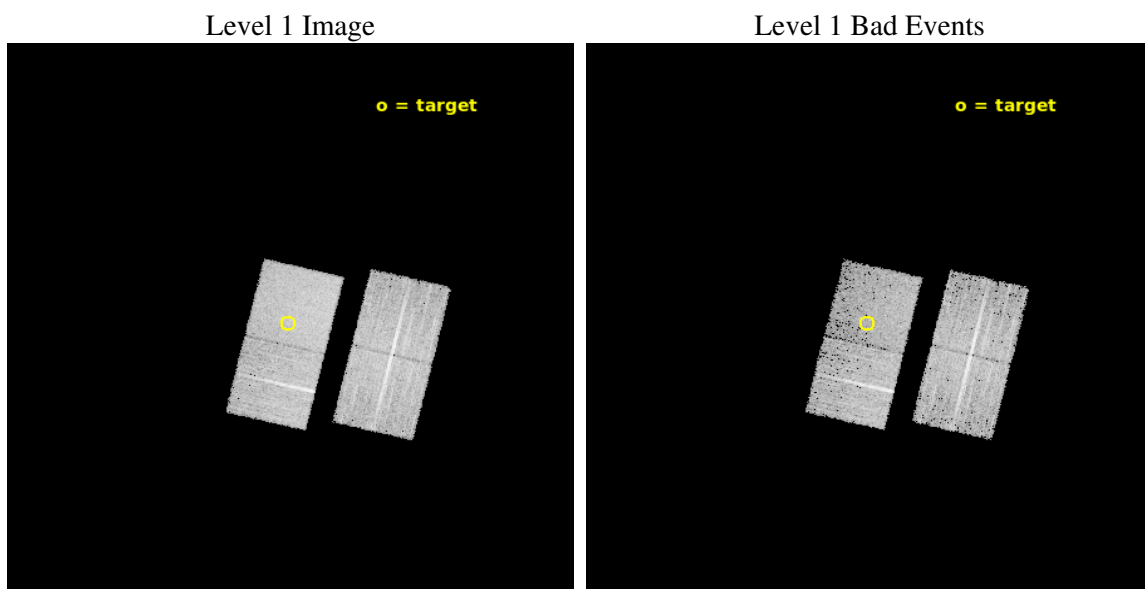
seq_num	701075	Sequence number
obs_id	5652	Observation id
title	The Spectral Energy Distribution and Fe II Emission in Intermediate-Redshift Narrow-line Seyfert 1 Galaxies	Proposal title
observer	Professor Karen Leighly	Principal investigator
object	SDSS J011651.54-103424.3	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	19.214583	Observer's specified target RA [deg]
dec_targ	-10.573417	Observer's specified target Dec [deg]
ra_nom	19.211816319332	Nominal RA [deg]
dec_nom	-10.581852861972	Nominal Dec [deg]
roll_nom	283.53056416426	Nominal Roll [deg]
revision	4	Processing version of data
ontime	8456.7999837101	Sum of GTIs [s]
livetime	8346.3056661173	Livetime [s]
ontime2	8453.6590134501	Sum of GTIs [s]
ontime3	8456.7999837101	Sum of GTIs [s]
ontime6	8456.7999837101	Sum of GTIs [s]
ontime7	8456.7999837101	Sum of GTIs [s]
l2events	37777	Number of level 2 events



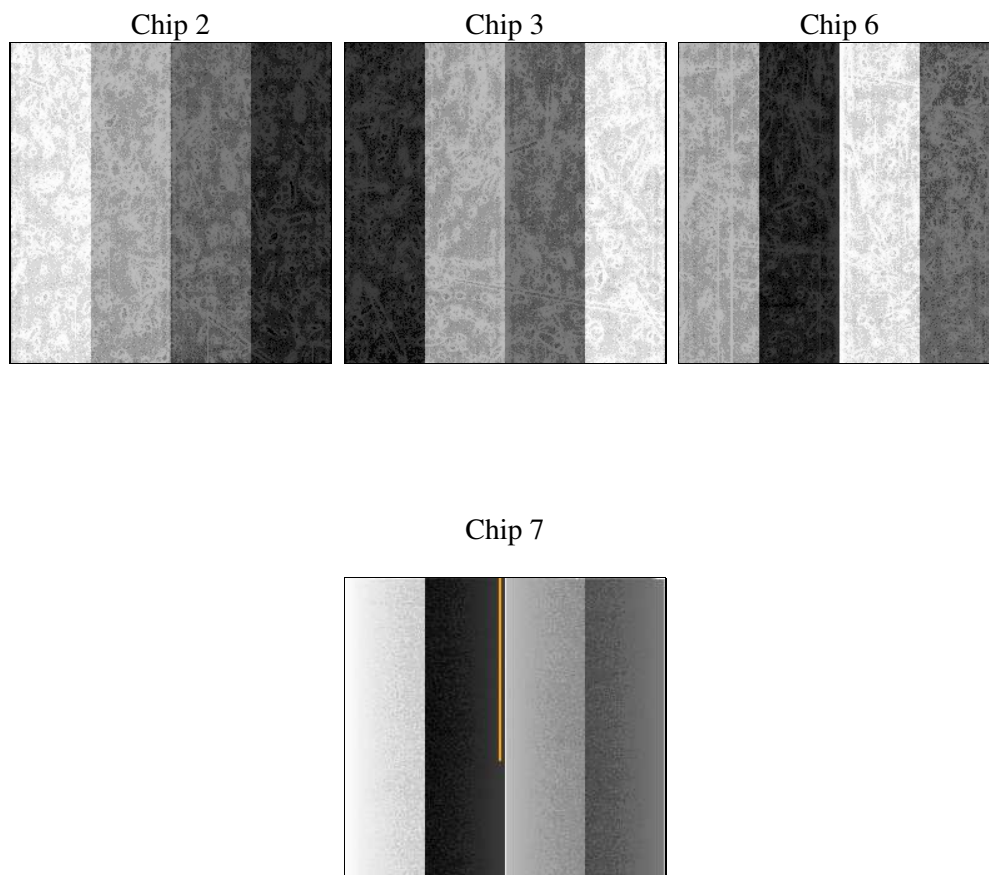
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	8300.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	8456.7999837101	Sum of GTIs [s]
caldsver	4.9.2	 	ontime2	8453.6590134501	Sum of GTIs [s]
date	2020-10-06T14:44:33	Date and time of file creation	ontime3	8456.7999837101	Sum of GTIs [s]
revision	4	Processing version of data	ontime6	8456.7999837101	Sum of GTIs [s]
			ontime7	8456.7999837101	Sum of GTIs [s]
			l1events	214001	Number of level 1 events

2.1.4 Events

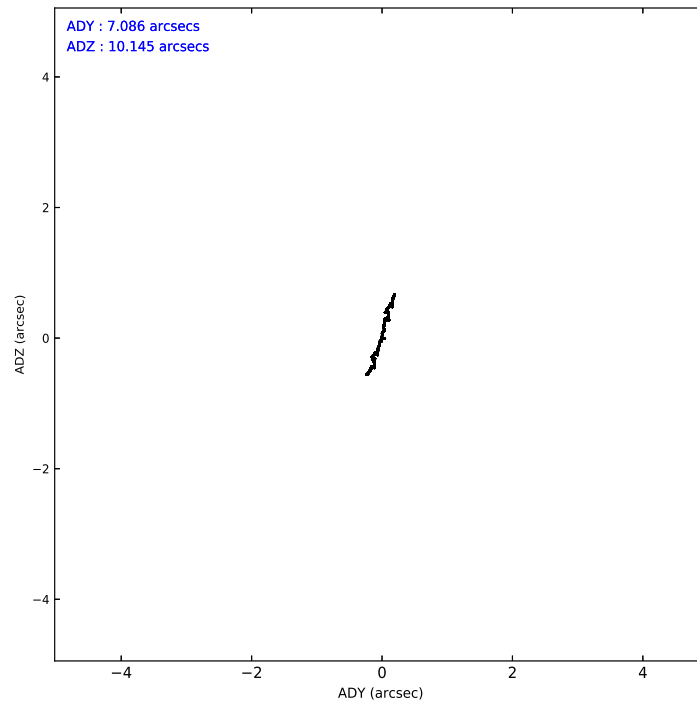
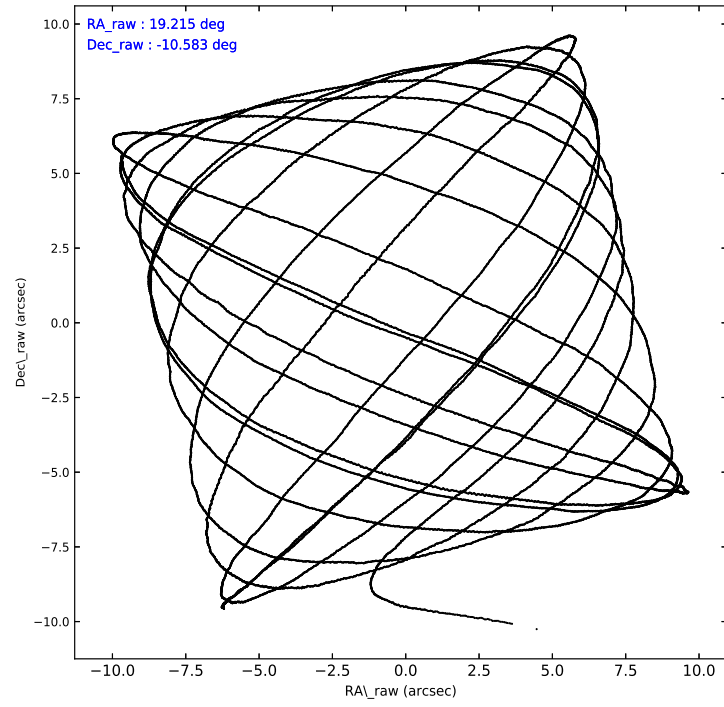
	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	53173	49904	52484	58440
rejected events	48175	45048	47028	32766
rejected %	90%	90%	89%	56%

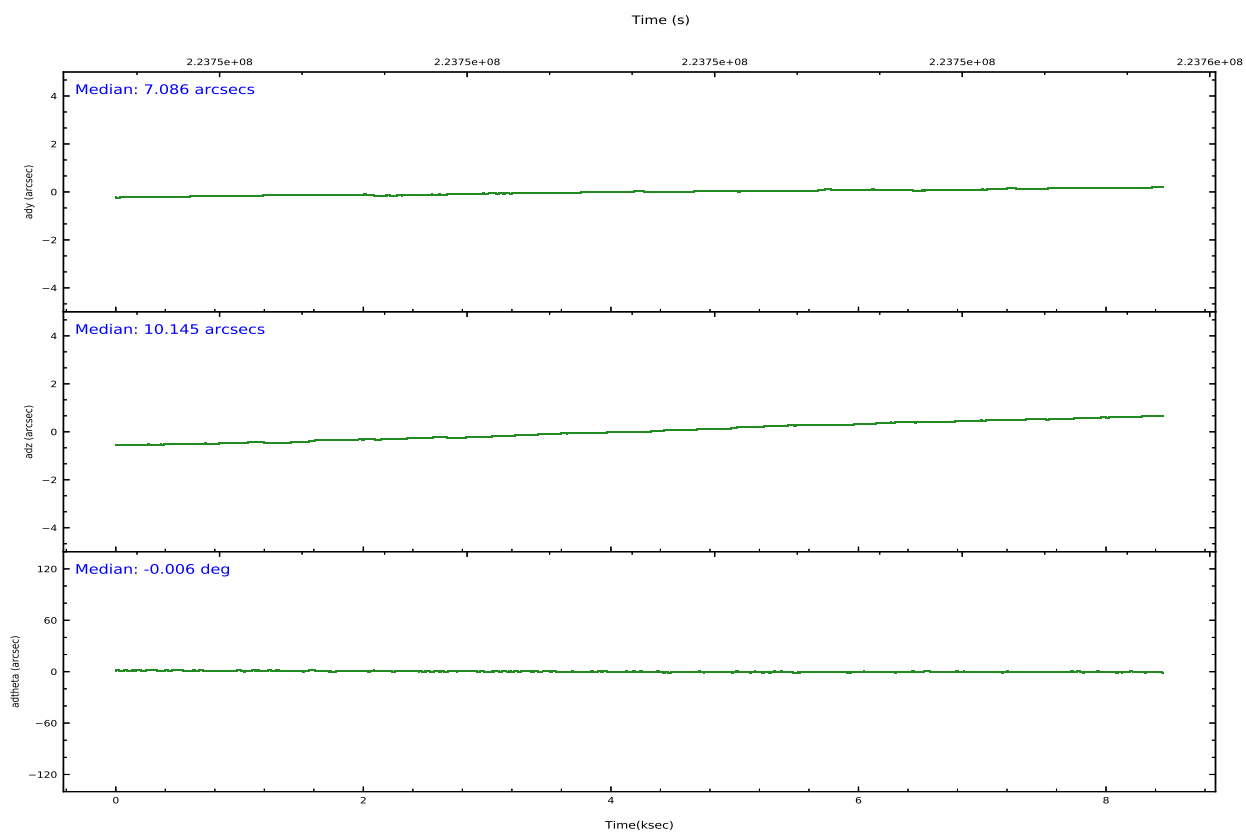
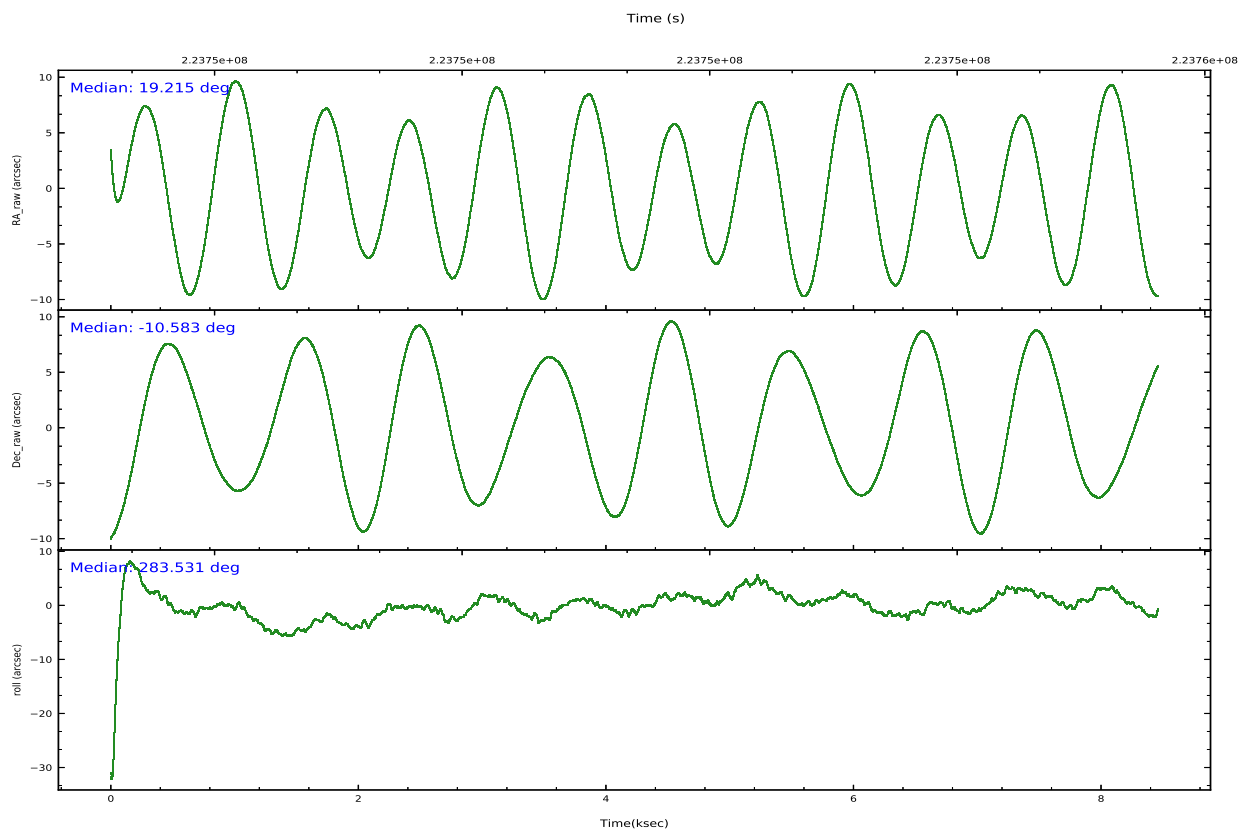
	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	1917	1845	1910	2362
	3%	3%	3%	4%
grade 1 events	27	19	12	58
	0%	0%	0%	0%
grade 2 events	1207	1014	1247	5362
	2%	2%	2%	9%
grade 3 events	497	601	601	2505
	0%	1%	1%	4%
grade 4 events	580	593	628	2432
	1%	1%	1%	4%
grade 5 events	1727	2029	2071	6283
	3%	4%	3%	10%
grade 6 events	937	983	1237	13810
	1%	1%	2%	23%
grade 7 events	46281	42820	44778	25628
	87%	85%	85%	43%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-2367	ACIS-2367	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	19.195818	19.211816319332	Subarray requested	NONE	NONE
[deg] Pointing Dec	-10.563580	-10.581852861972	Alternating exposures requested	N	N
[deg] Pointing Roll	283.362242	283.53056416426	[s] Primary exposure time	0.000000	3.1
[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)	223747323.184000	223746260.32682			
Observation start date	2005-02-02T16:00:59	2005-02-02T15:44:20			
[s] Observation end time (MET)	223755623.184000	223756444.21478			
Observation end date	2005-02-02T18:19:19	2005-02-02T18:34:04			
Read mode	TIMED	TIMED			

2.3 Aspect



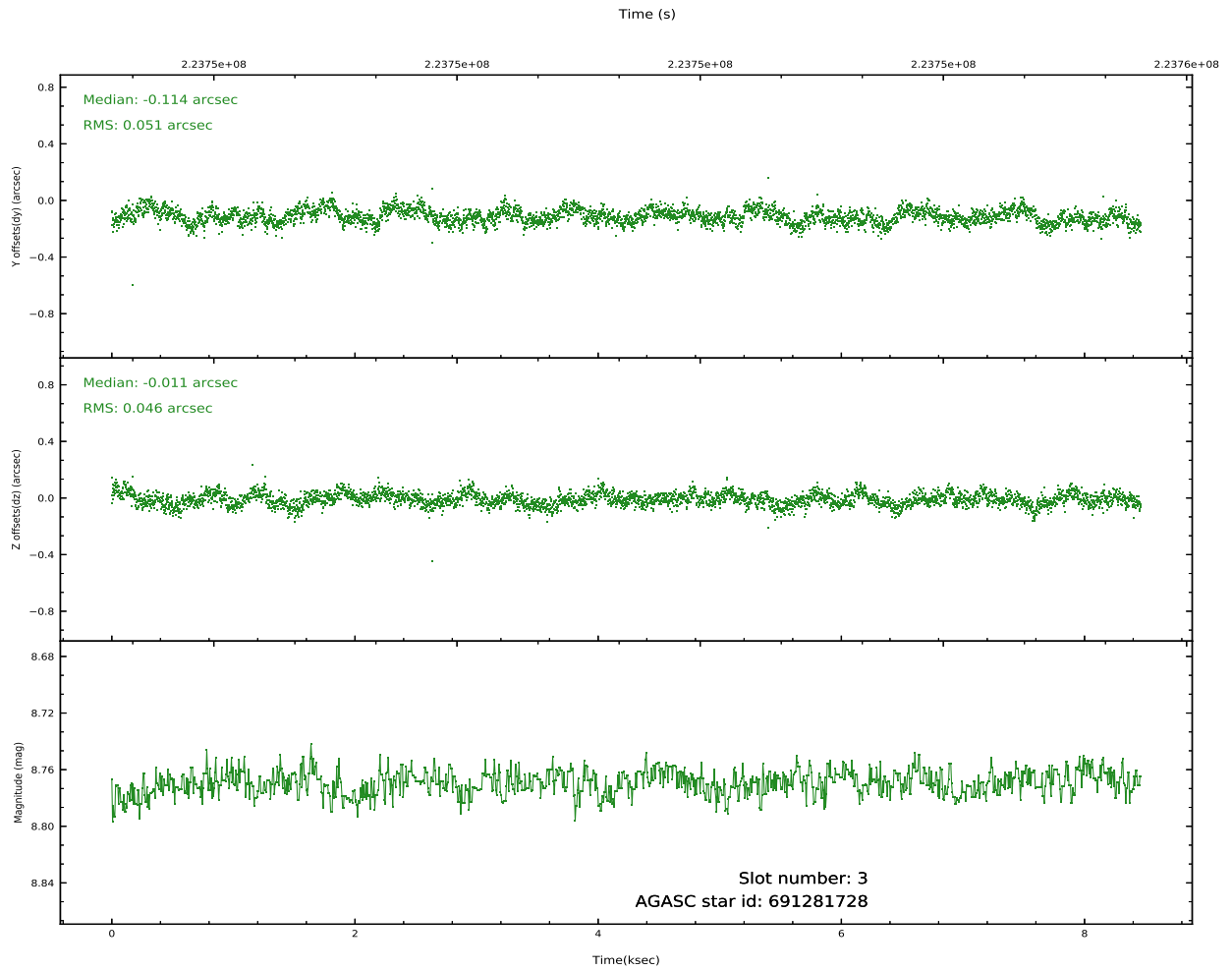
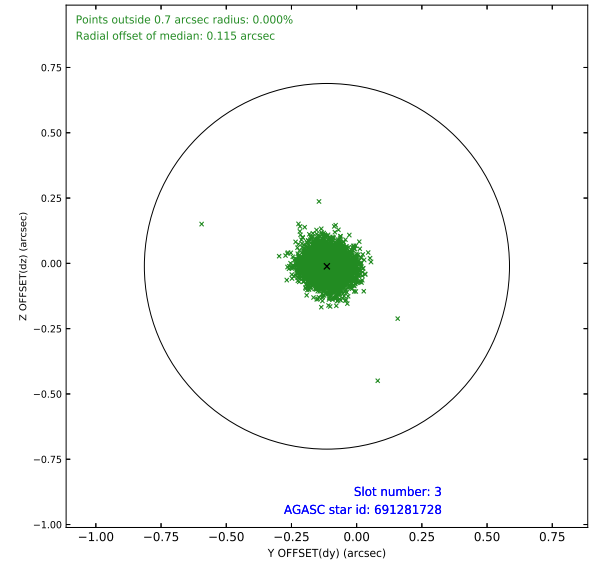
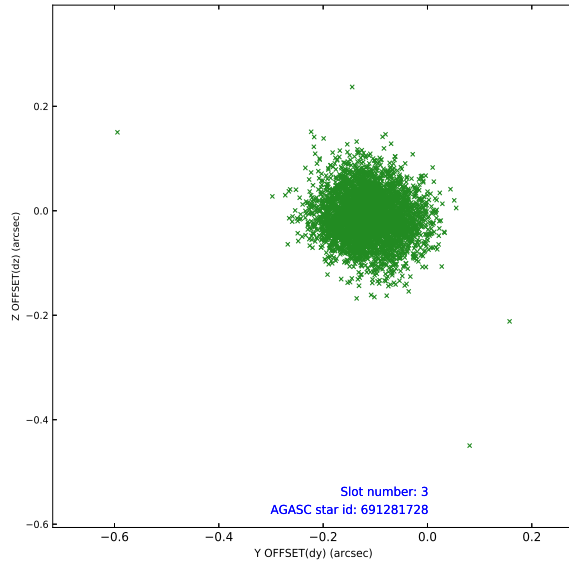


Slot Statistics

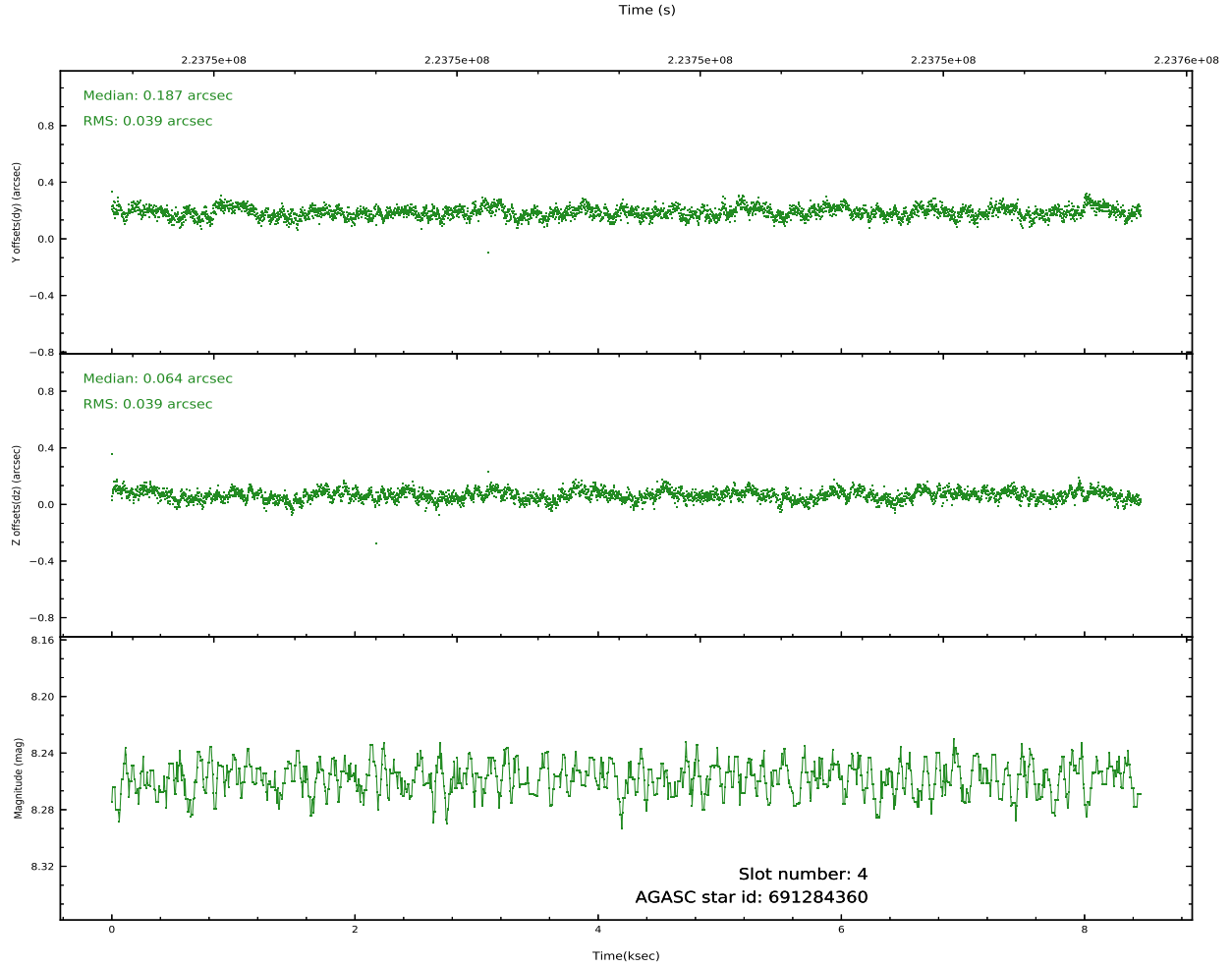
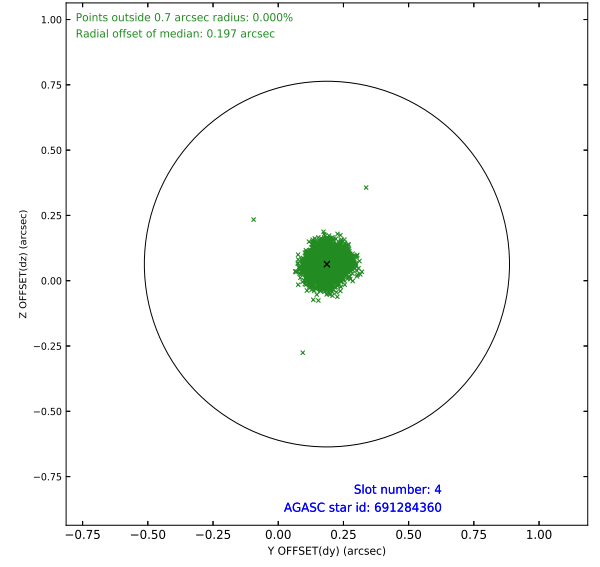
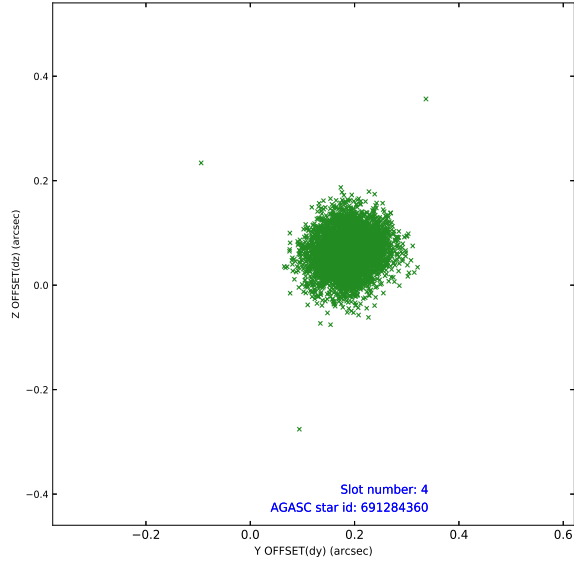
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.10	2064	1.000	-0.084	-0.062	0.009	0.015	0.000000	0.000000	-759.84	-1731
1	FID		ACIS-S-4	7.20	2063	1.000	0.156	0.057	0.006	0.010	0.000000	0.000000	2153.30	176
2	FID		ACIS-S-5	7.23	2064	1.000	-0.104	0.014	0.009	0.014	0.000000	0.000000	-1811.93	170
3	GUIDE	used	691281728	8.77	4126	1.000	-0.114	-0.011	0.073	0.117	19.311495	-9.965528	-2000.02	896
4	GUIDE	used	691284360	8.26	4129	1.000	0.187	0.064	0.058	0.093	19.742053	-10.974282	1886.06	1535
5	GUIDE	used	691285568	9.41	4129	1.000	-0.060	0.124	0.097	0.159	19.492572	-9.941300	-1935.62	1542
6	GUIDE	used	691286168	8.90	4127	1.000	-0.014	-0.008	0.077	0.126	19.305023	-10.184322	-1239.61	692
7	GUIDE	used	691287264	9.31	4122	1.000	-0.004	-0.170	0.077	0.124	19.210535	-10.267046	-1026.95	297

2.4 Star Slots

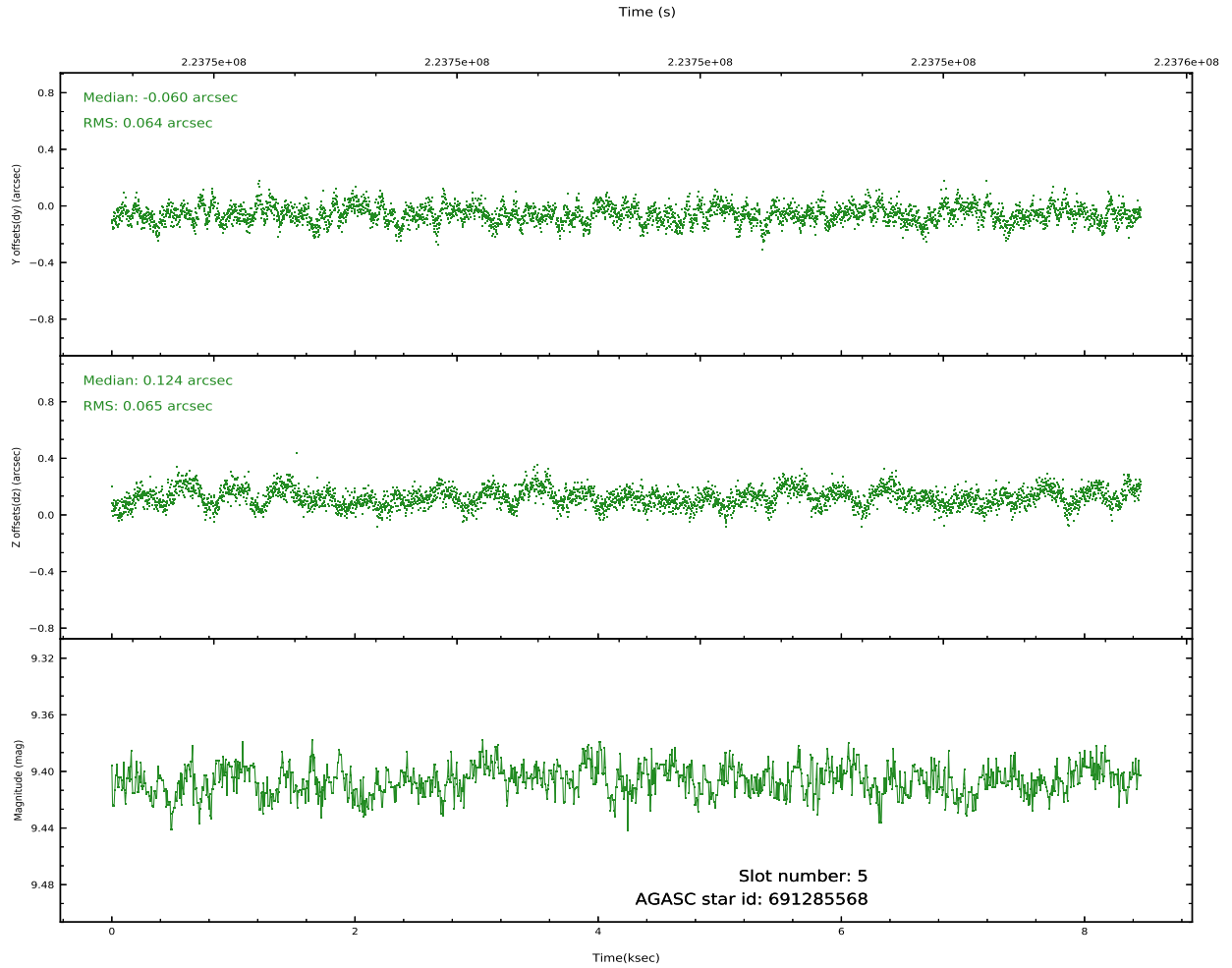
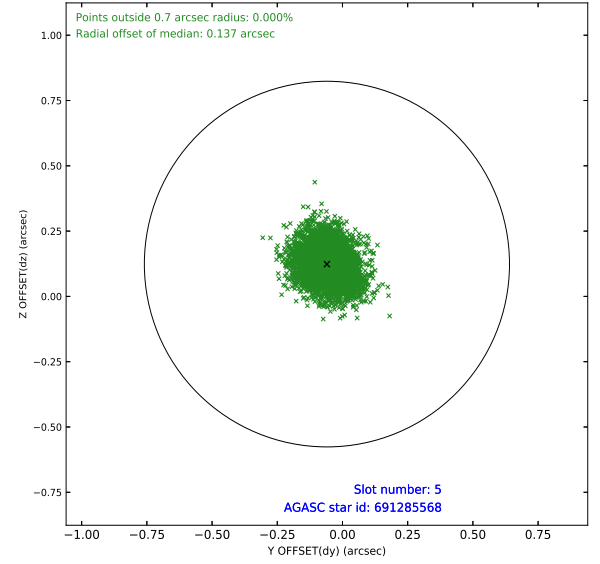
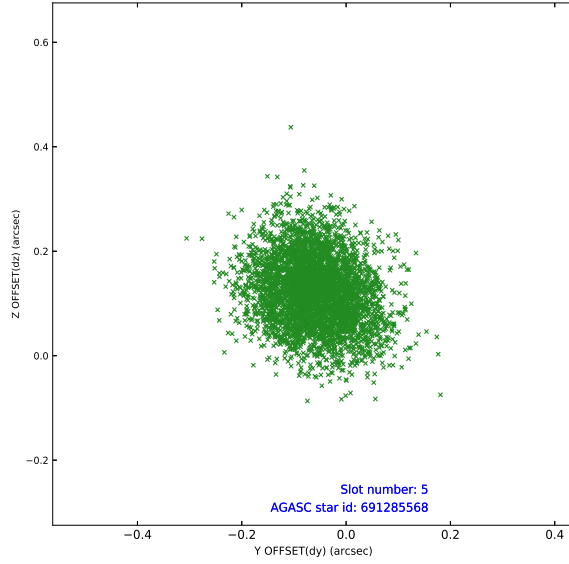
2.4.1 Slot 3



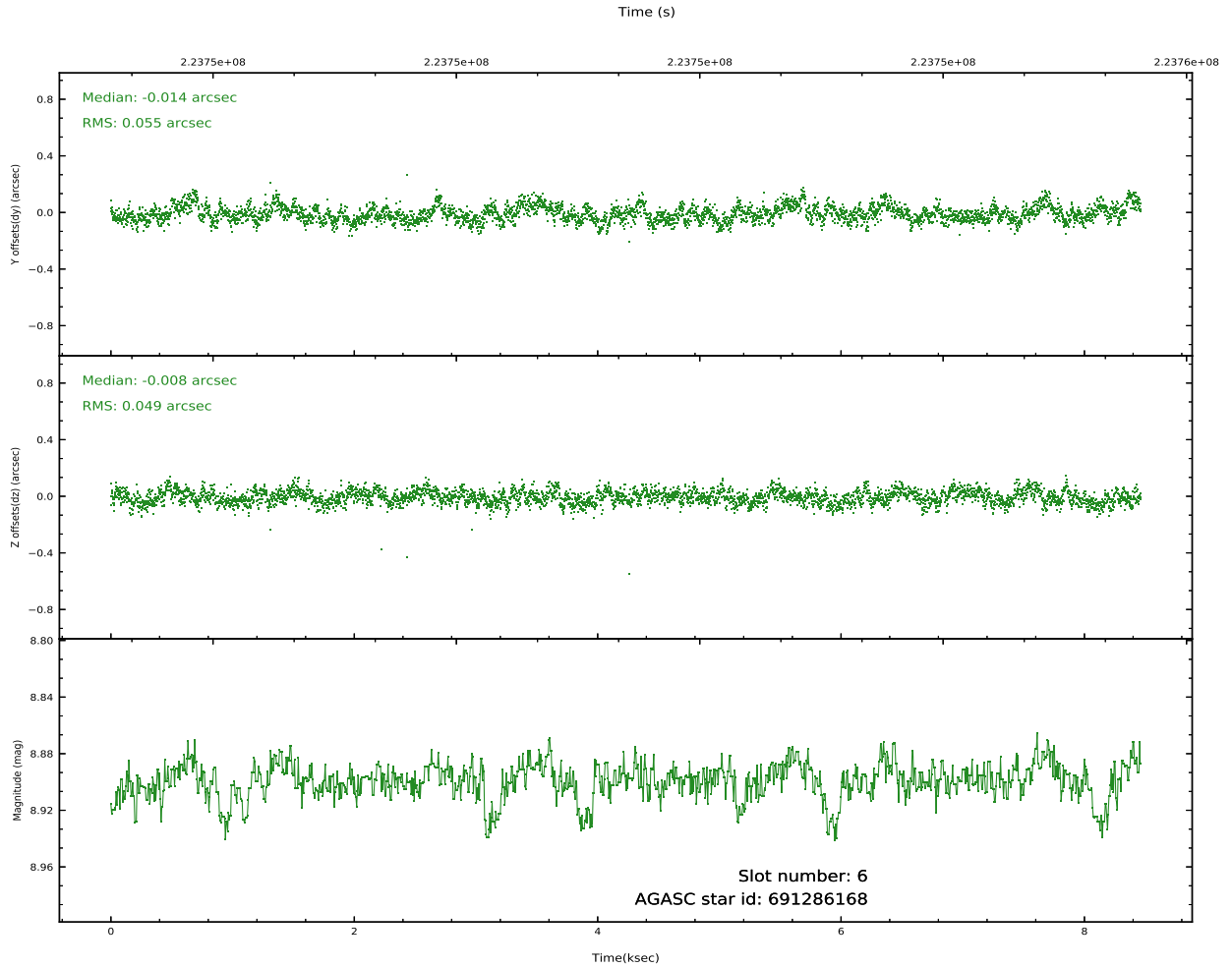
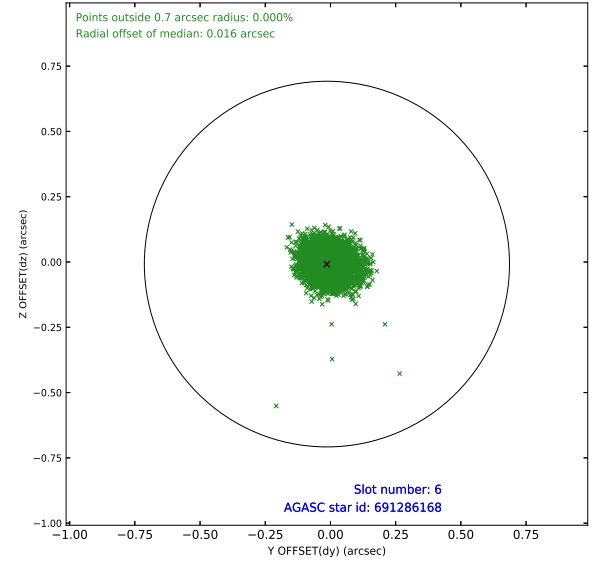
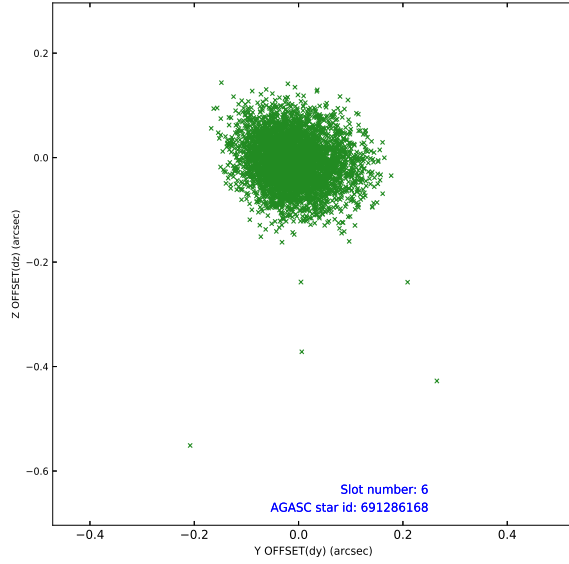
2.4.2 Slot 4



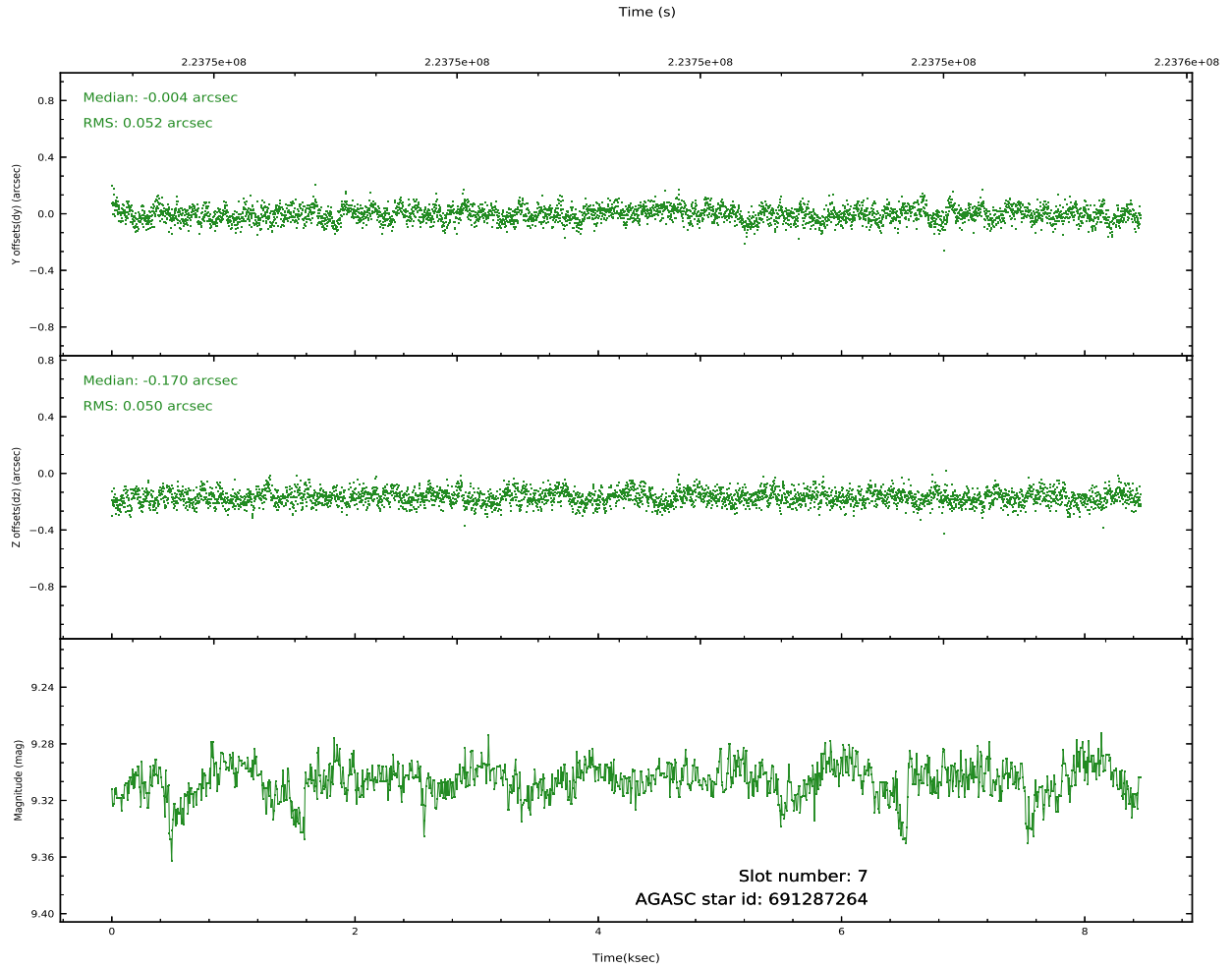
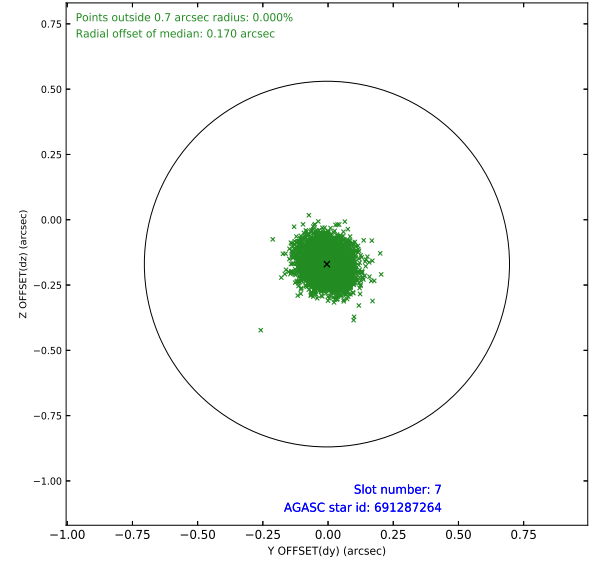
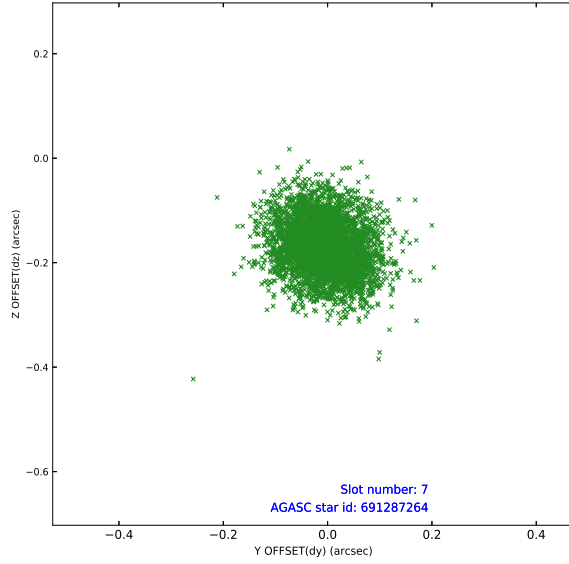
2.4.3 Slot 5



2.4.4 Slot 6

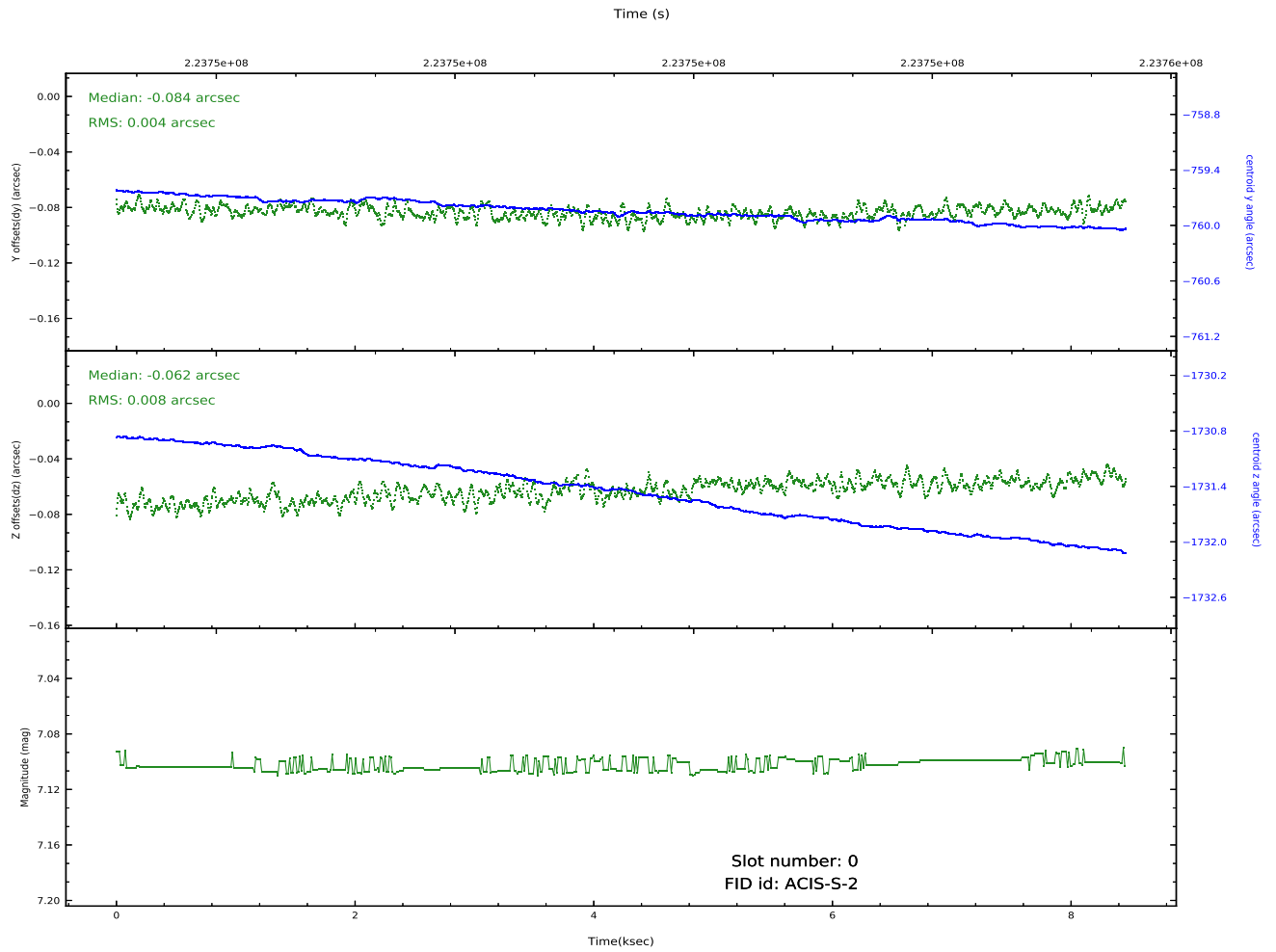
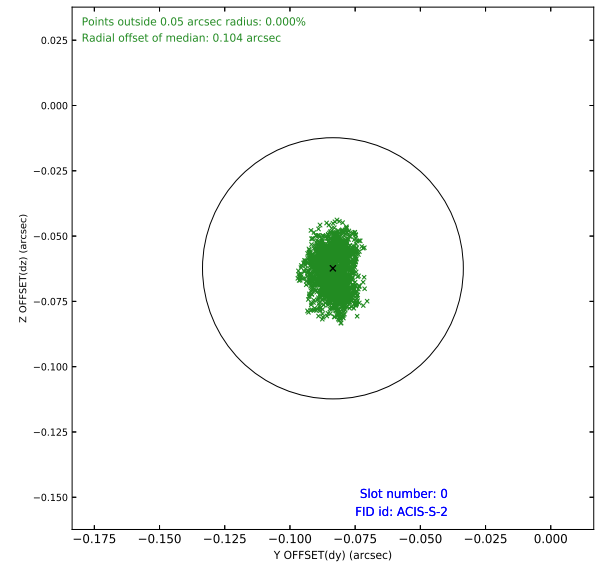
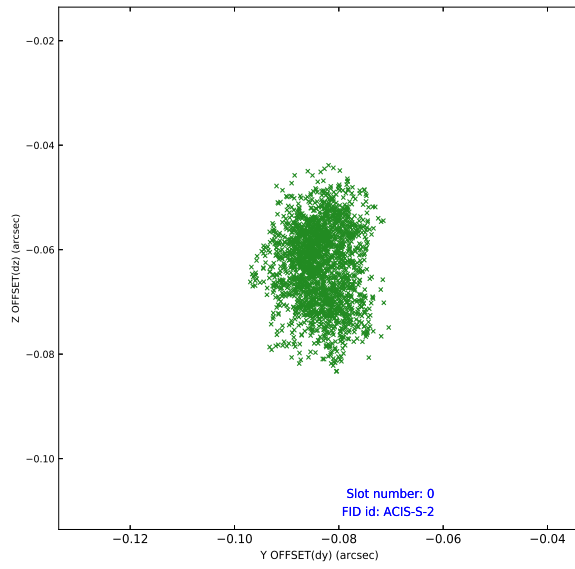


2.4.5 Slot 7

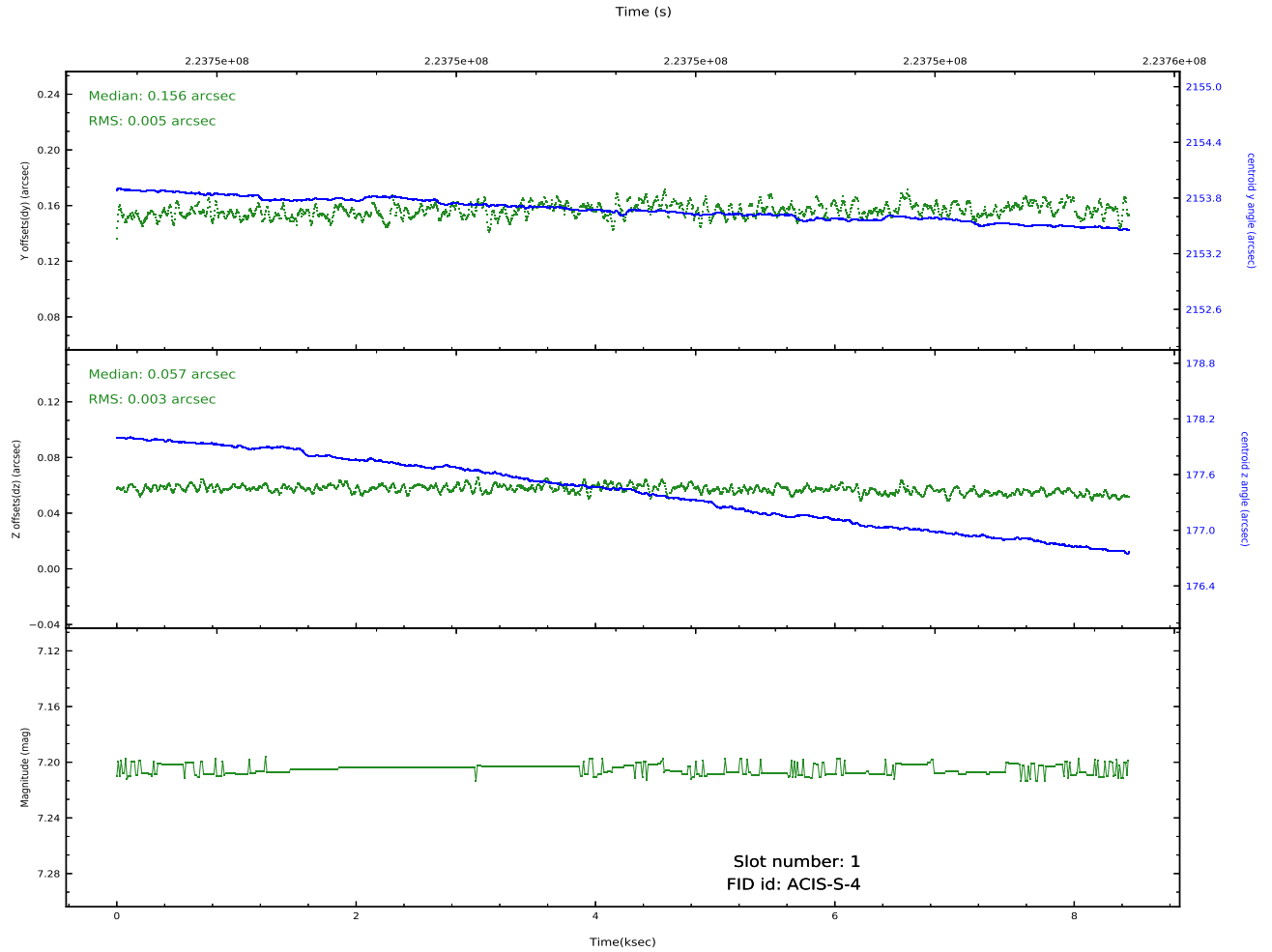
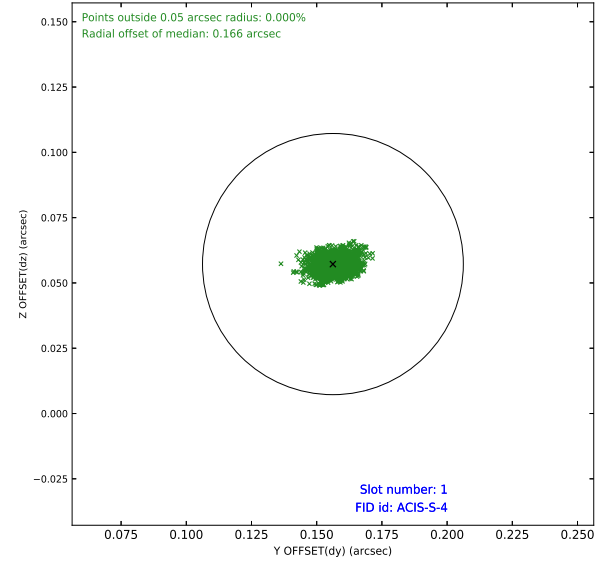
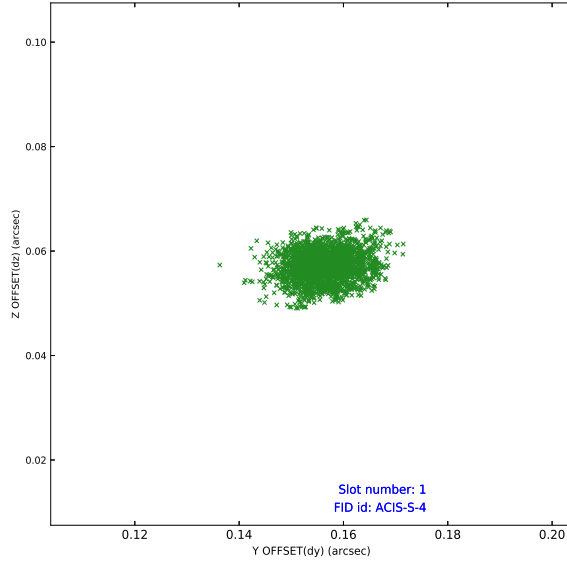


2.5 FID Slots

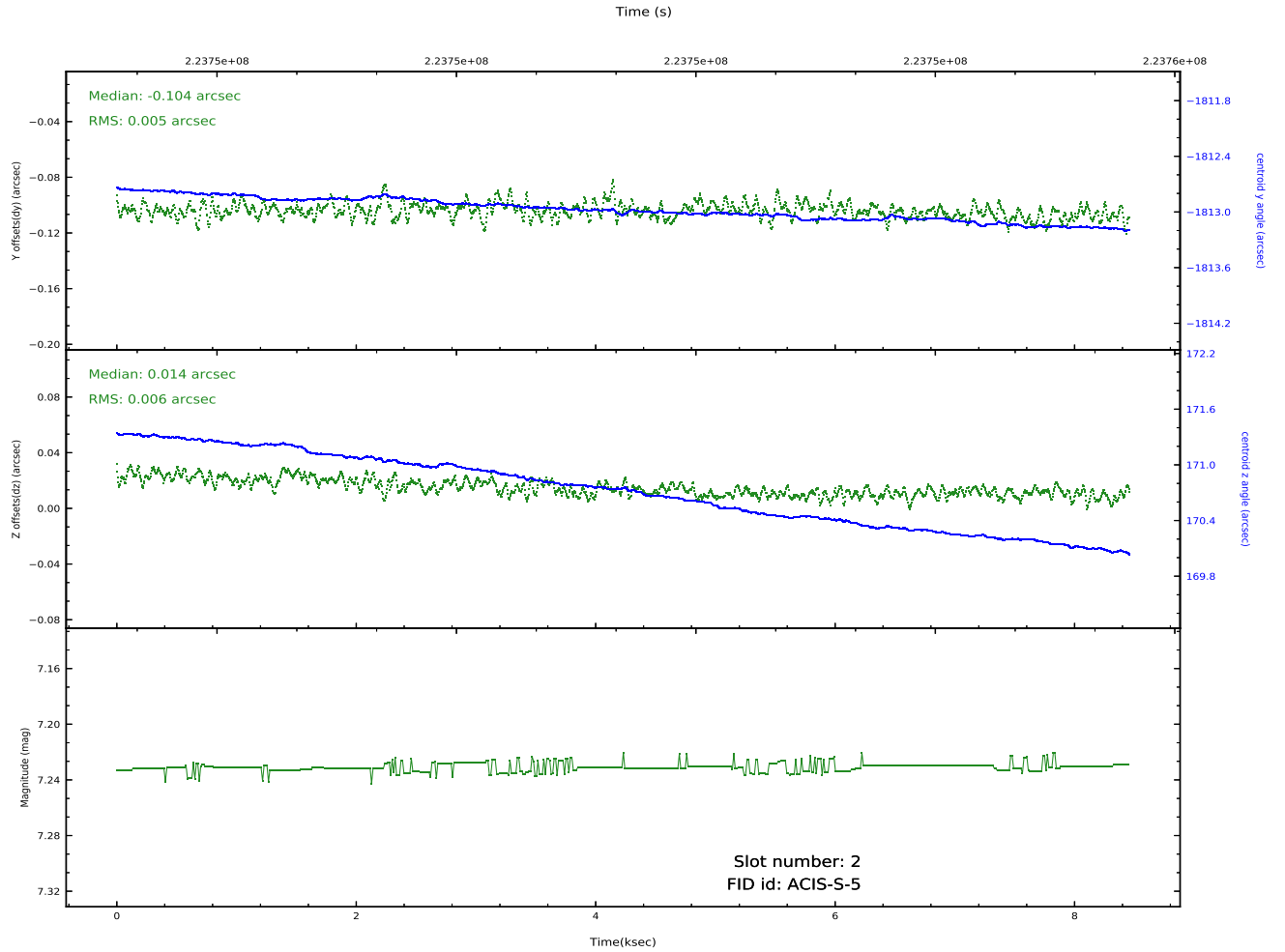
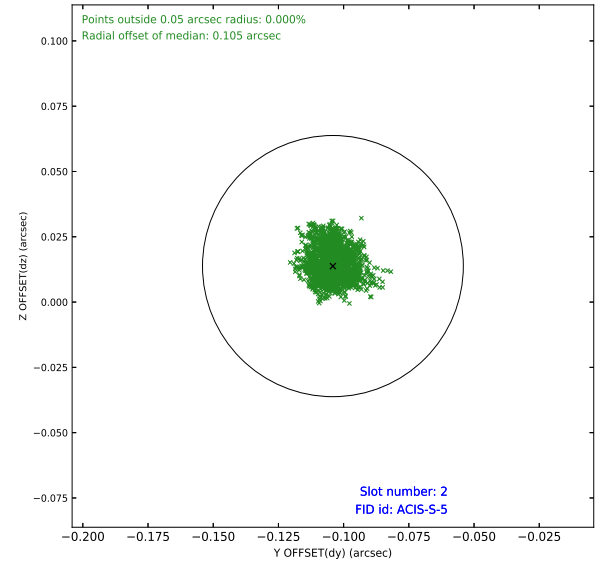
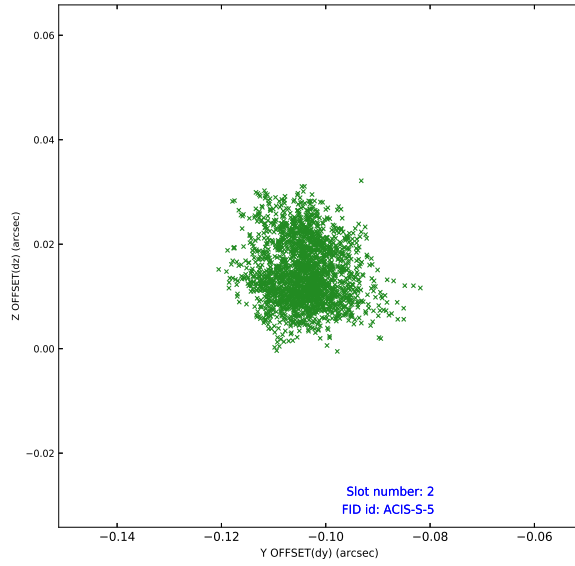
2.5.1 Slot 0



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)	2020.10.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.456799

A.2 Comments