

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5326 - L2 Version 4
Chandra X-Ray Center

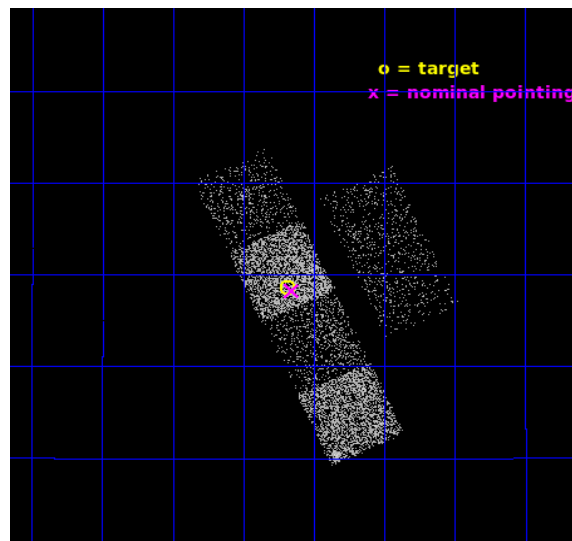
L2 Processing Date : Sep 25 2020

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1 Front

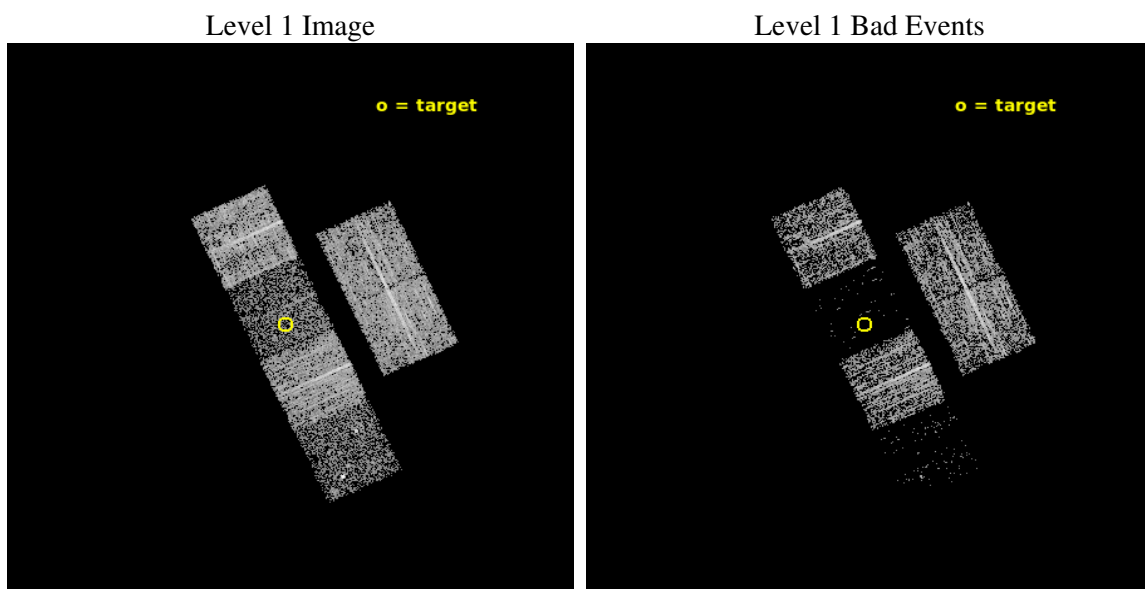
seq_num	100053	Sequence number
obs_id	5326	Observation id
title	Chandra Snapshot Spectral Imaging of Comets C/2001 Q4 (NEAT) and C/2002 T7 (LINEAR)	Proposal title
observer	Carey Lisse	Principal investigator
object	Comet 2001 Q4 (NEAT)	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	124.5464	Observer's specified target RA [deg]
dec_targ	10.975642	Observer's specified target Dec [deg]
ra_nom	124.53885728979	Nominal RA [deg]
dec_nom	10.970854149769	Nominal Dec [deg]
roll_nom	245.16049195861	Nominal Roll [deg]
revision	4	Processing version of data
ontime	3471.9999870658	Sum of GTIs [s]
livetime	3428.0354326422	Livetime [s]
ontime2	3471.9999870658	Sum of GTIs [s]
ontime3	3471.9999870658	Sum of GTIs [s]
ontime5	3471.9999870658	Sum of GTIs [s]
ontime6	3471.9999870658	Sum of GTIs [s]
ontime7	3471.9999870658	Sum of GTIs [s]
ontime8	3471.9999870658	Sum of GTIs [s]
l2events	8849	Number of level 2 events



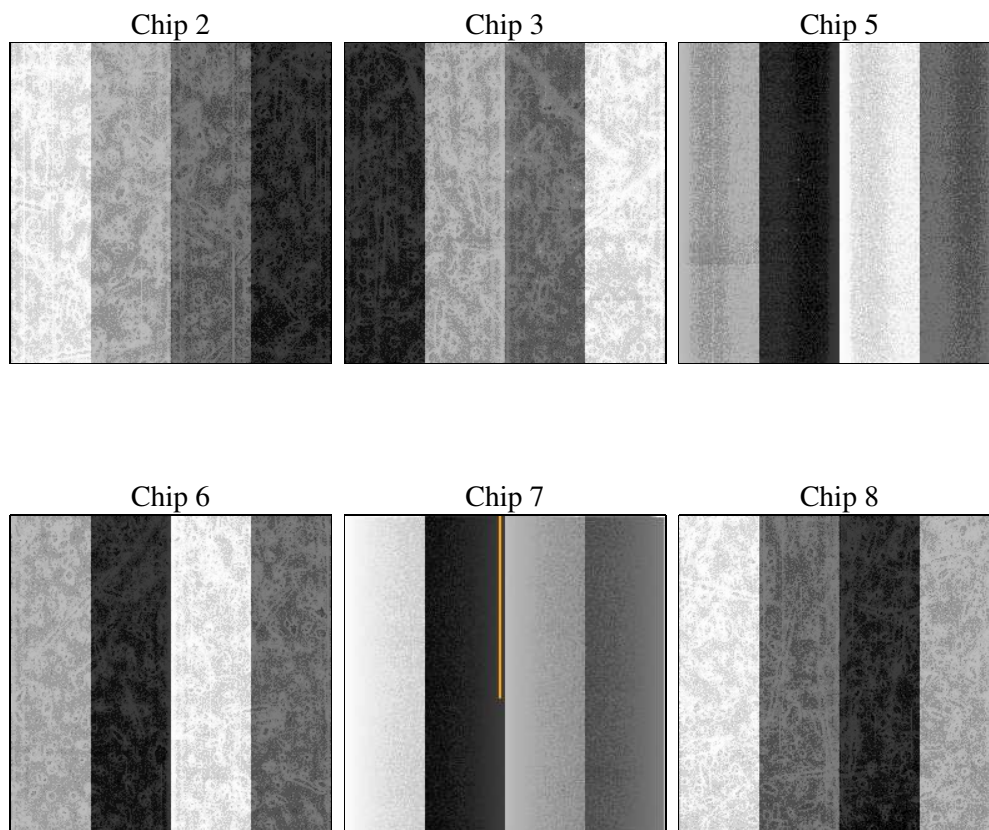
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3300.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	3471.9999870658	Sum of GTIs [s]
caldsver	4.9.2	 	ontime2	3471.9999870658	Sum of GTIs [s]
date	2020-09-25T19:57:02	Date and time of file creation	ontime3	3471.9999870658	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	3471.9999870658	Sum of GTIs [s]
			ontime6	3471.9999870658	Sum of GTIs [s]
			ontime7	3471.9999870658	Sum of GTIs [s]
			ontime8	3471.9999870658	Sum of GTIs [s]
			l1events	72058	Number of level 1 events

2.1.4 Events

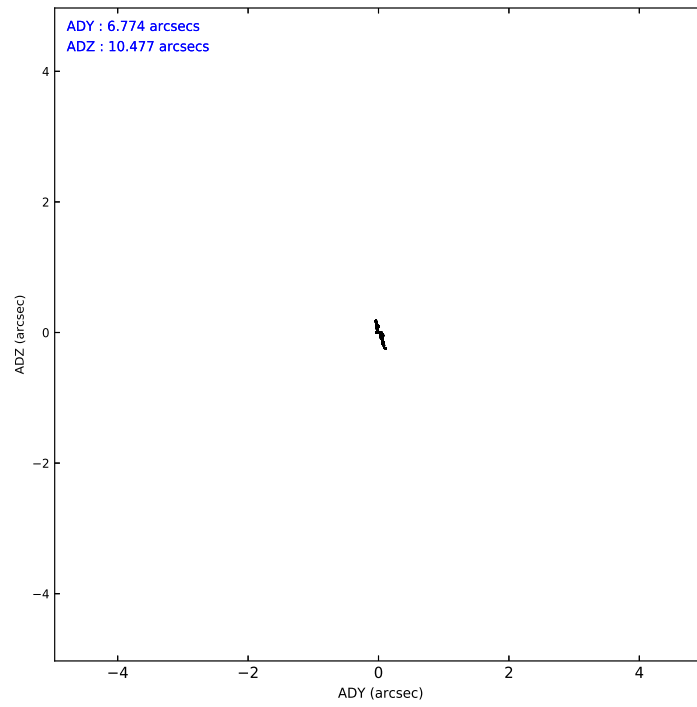
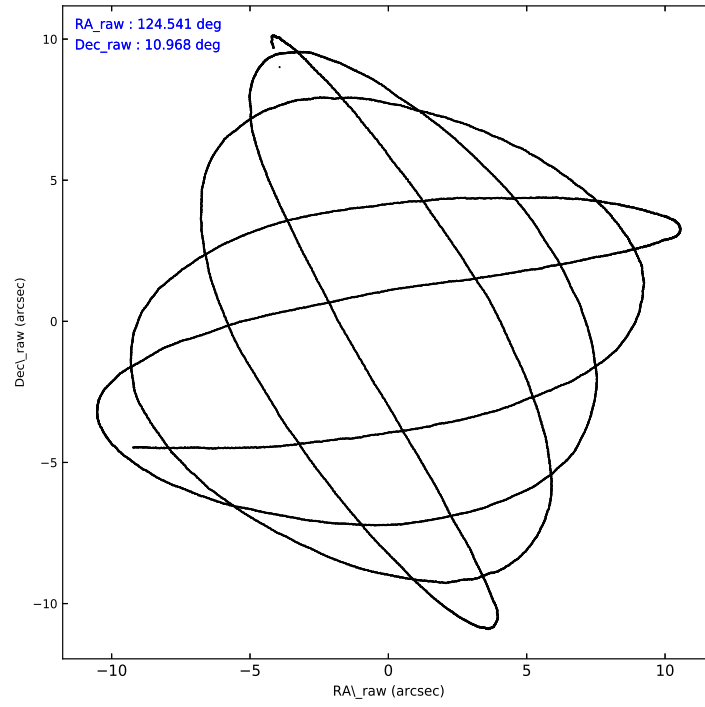
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	16232	14270	4966	14968	4295	17327
rejected events	15514	13680	986	13941	599	13179
rejected %	95%	95%	19%	93%	13%	76%

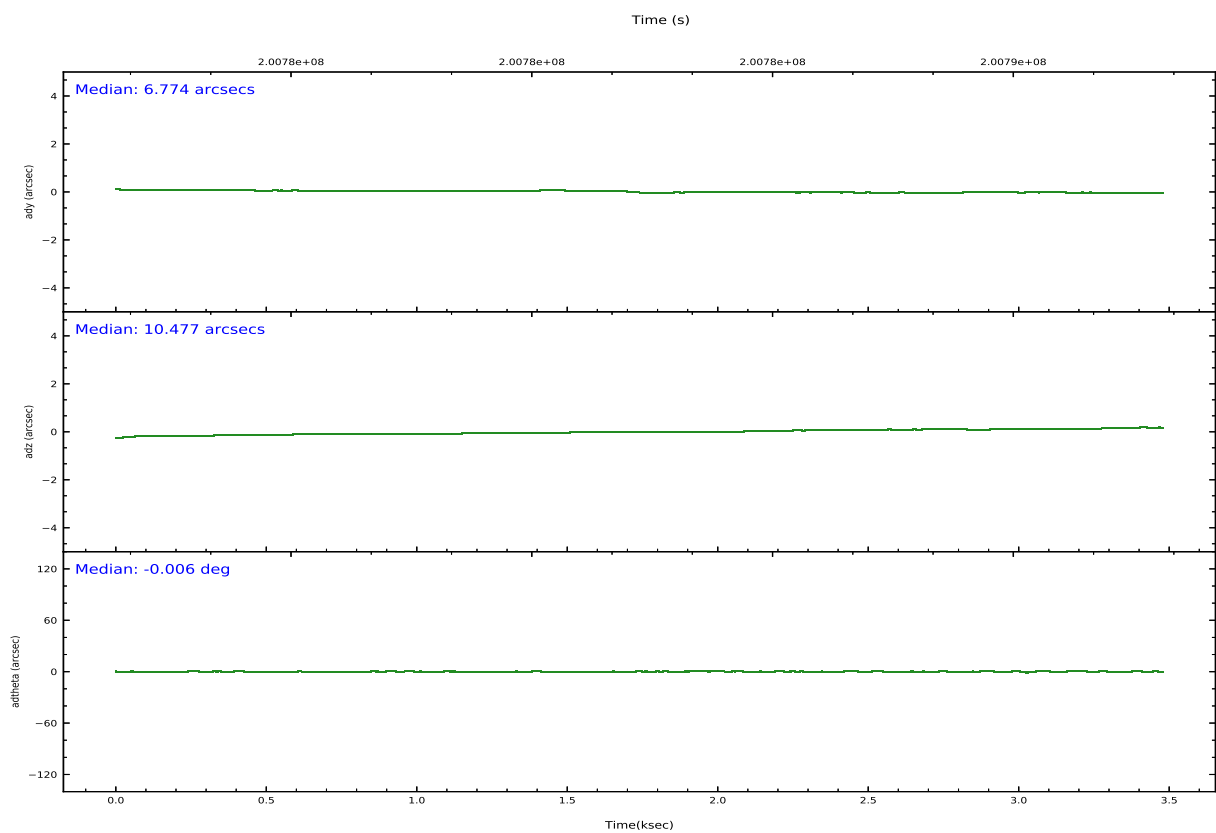
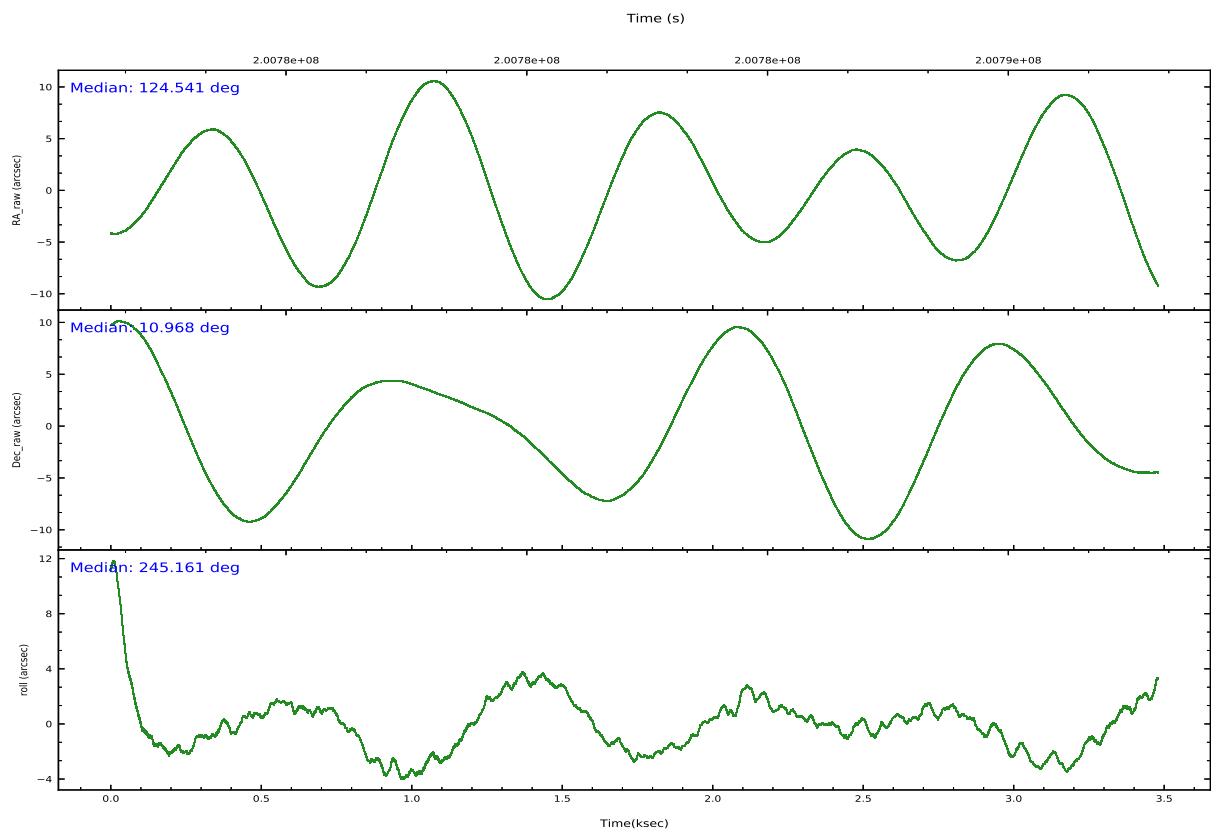
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	414	350	2261	732	1773	1322
	2%	2%	45%	4%	41%	7%
grade 1 events	8	3	57	6	8	12
	0%	0%	1%	0%	0%	0%
grade 2 events	132	61	1008	108	972	914
	0%	0%	20%	0%	22%	5%
grade 3 events	75	95	407	102	410	518
	0%	0%	8%	0%	9%	2%
grade 4 events	92	72	324	92	417	446
	0%	0%	6%	0%	9%	2%
grade 5 events	16	13	135	8	68	80
	0%	0%	2%	0%	1%	0%
grade 6 events	53	51	239	44	305	1213
	0%	0%	4%	0%	7%	7%
grade 7 events	15442	13625	535	13876	342	12822
	95%	95%	10%	92%	7%	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	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	124.537891	124.53885728979	Subarray requested	NONE	NONE
[deg] Pointing Dec	10.994799	10.970854149769	Alternating exposures requested	N	N
[deg] Pointing Roll	245.001614	245.16049195861	[s] Primary exposure time	0.000000	3.2
[s] Window start time (MET)	200361664.184000	200361664.184000			
[s] Window stop time (MET)	201484864.184000	201484864.184000			
[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)	200782798.184000	200782422.72624			
Observation start date	2004-05-12T20:58:54	2004-05-12T20:53:42			
[s] Observation end time (MET)	200786098.184000	200786830.73893			
Observation end date	2004-05-12T21:53:54	2004-05-12T22:07:10			
Read mode	TIMED	TIMED			

2.3 Aspect



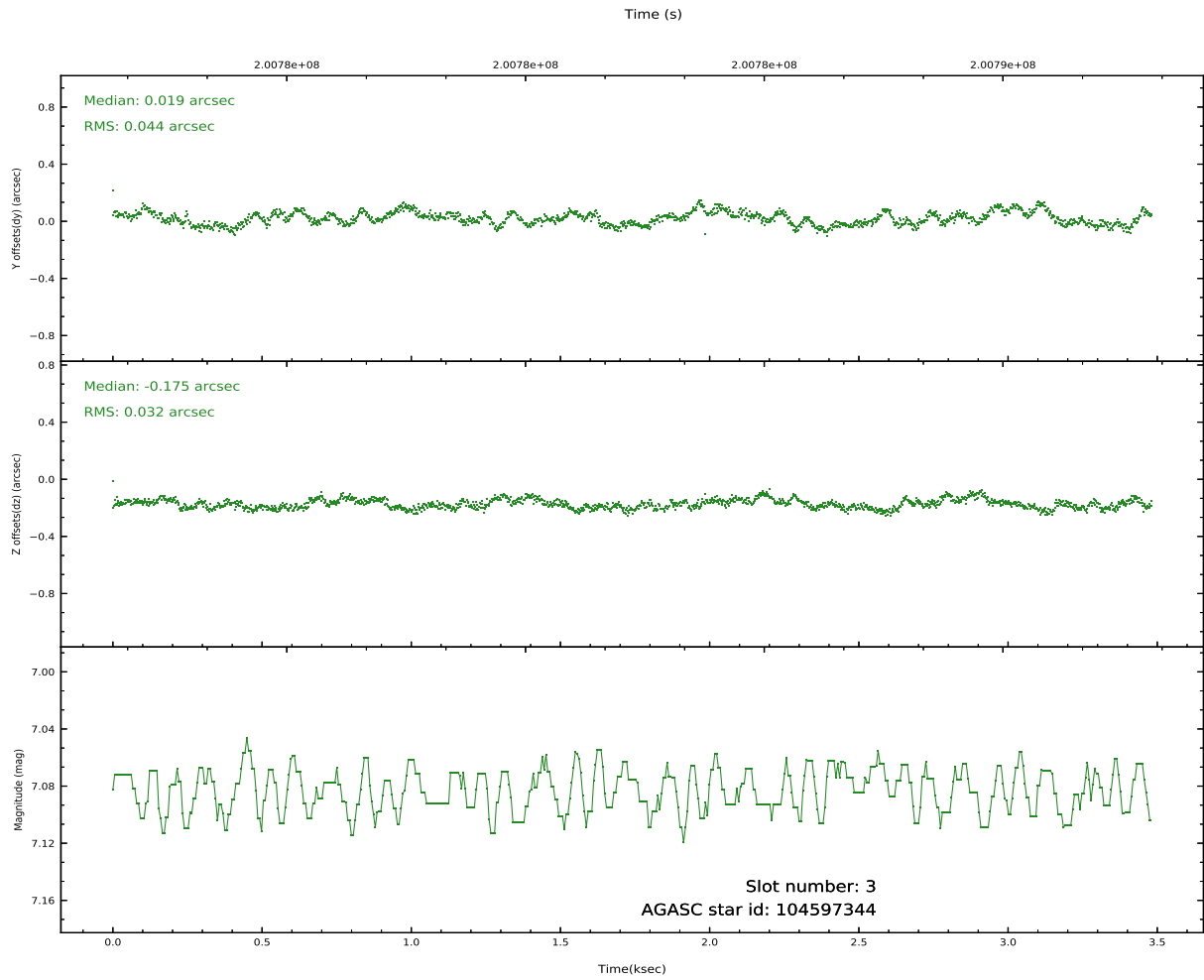
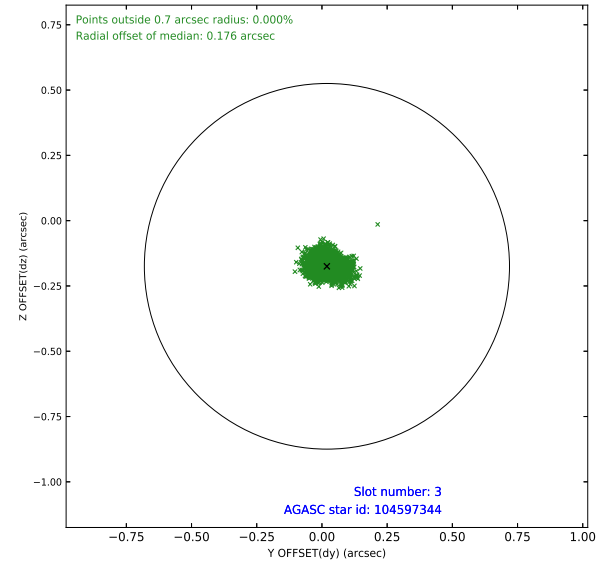
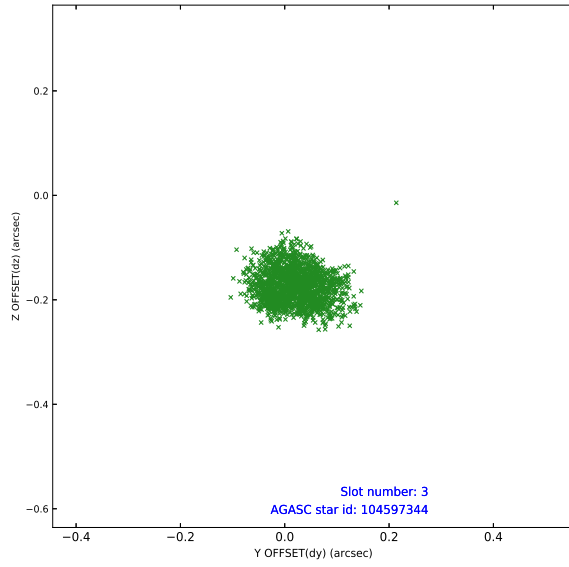


Slot Statistics

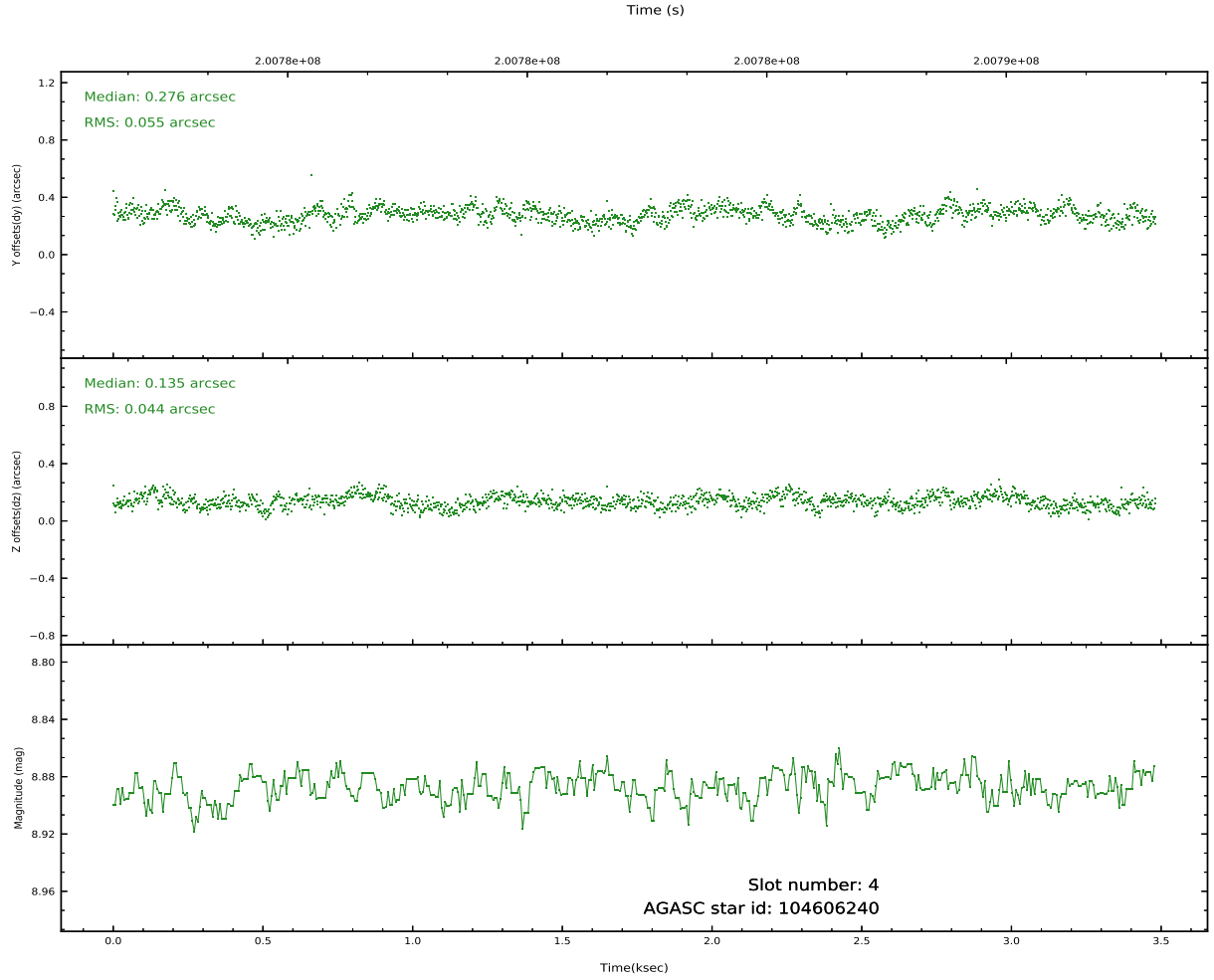
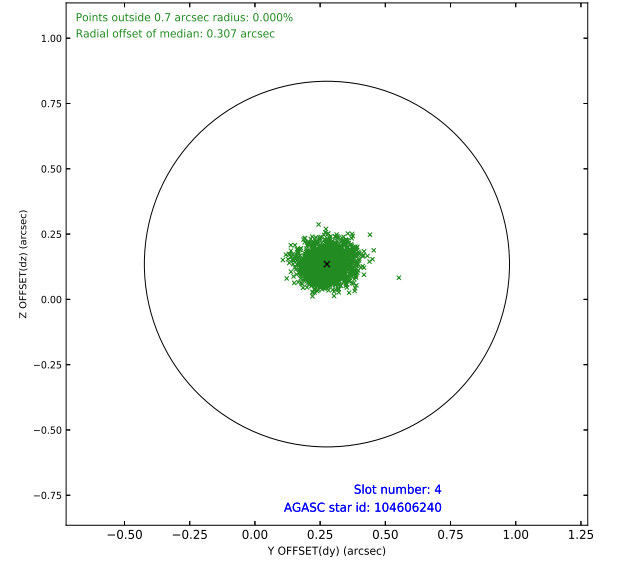
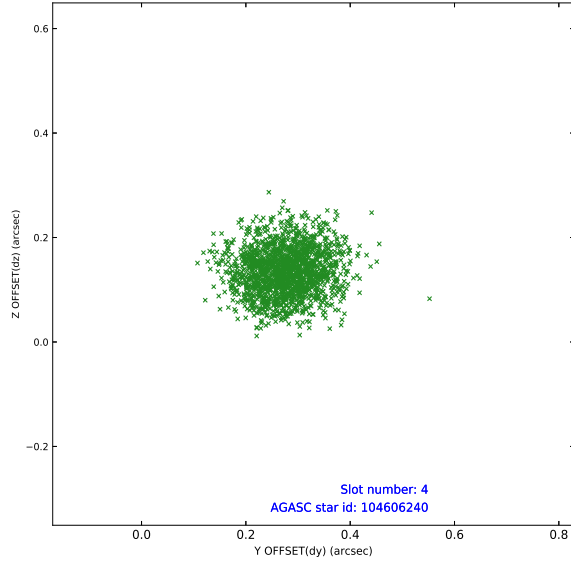
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.10	849	1.000	-0.088	-0.048	0.006	0.010	0.000000	0.000000	-759.56	-1731
1	FID		ACIS-S-4	7.20	849	1.000	0.137	0.055	0.005	0.010	0.000000	0.000000	2153.05	175
2	FID		ACIS-S-5	7.23	850	1.000	-0.080	0.002	0.007	0.012	0.000000	0.000000	-1810.13	170
3	GUIDE	used	104597344	7.08	1699	1.000	0.019	-0.175	0.059	0.092	124.136828	11.043606	439.49	-1358
4	GUIDE	used	104606240	8.89	1698	1.000	0.276	0.135	0.075	0.120	124.221640	10.540343	1956.48	-323
5	GUIDE	used	104729968	9.26	1699	1.000	0.182	0.215	0.145	0.205	124.567030	10.276646	2301.35	1186
6	GUIDE	used	105255296	8.53	1699	1.000	-0.139	-0.159	0.058	0.095	124.534672	11.656846	-2153.38	-1016
7	GUIDE	used	105131768	5.94	1698	1.000	-0.340	-0.018	0.051	0.077	124.140938	11.726243	-1797.06	-2381

2.4 Star Slots

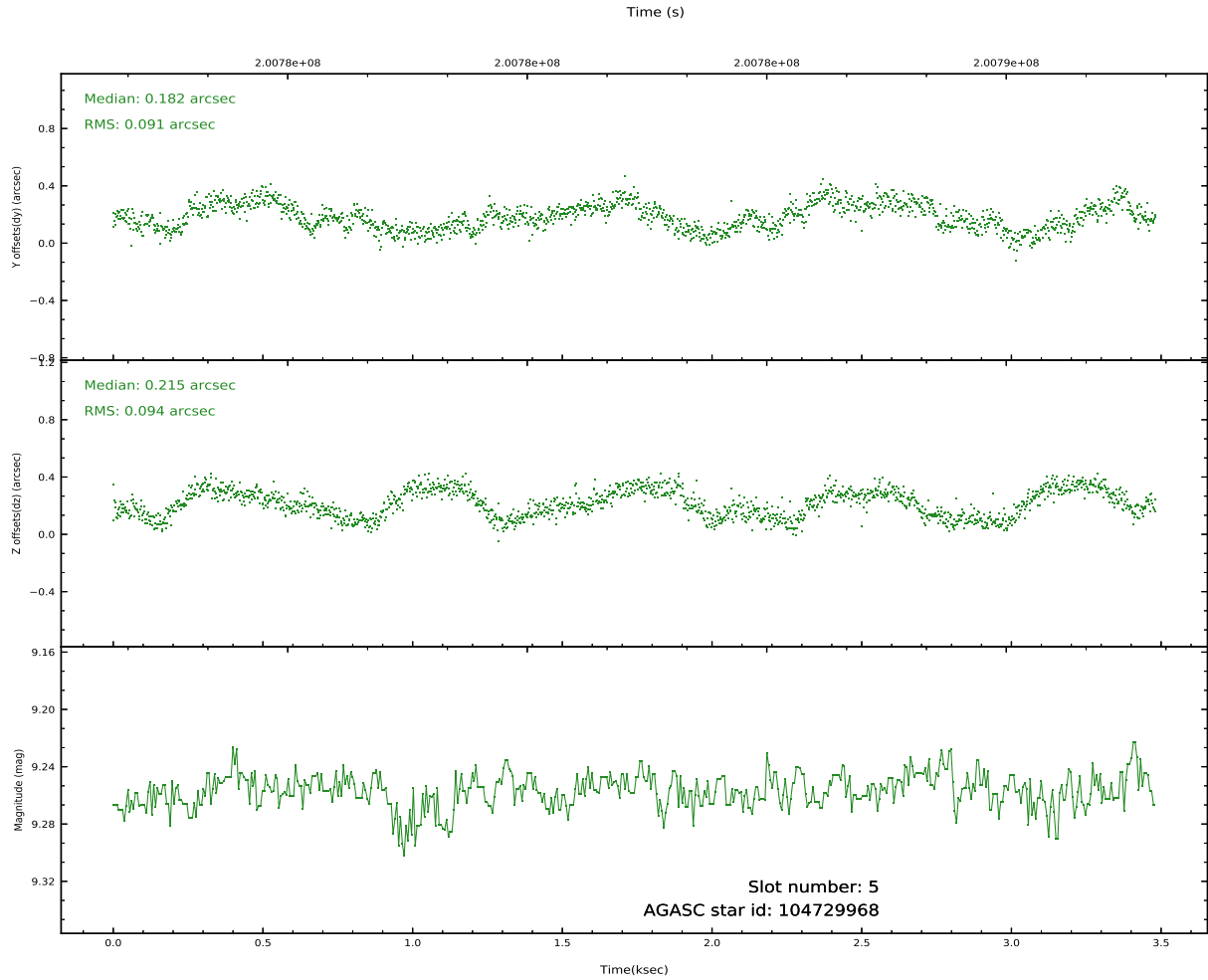
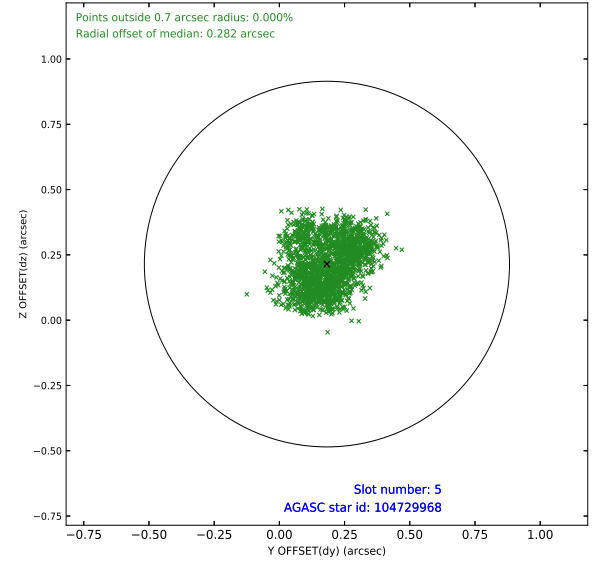
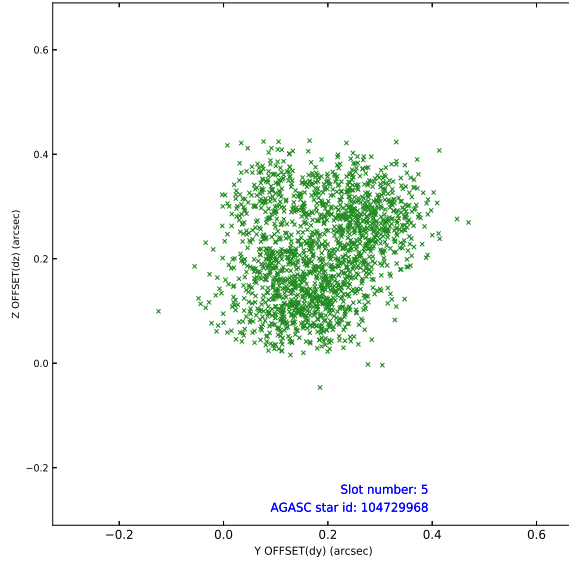
2.4.1 Slot 3



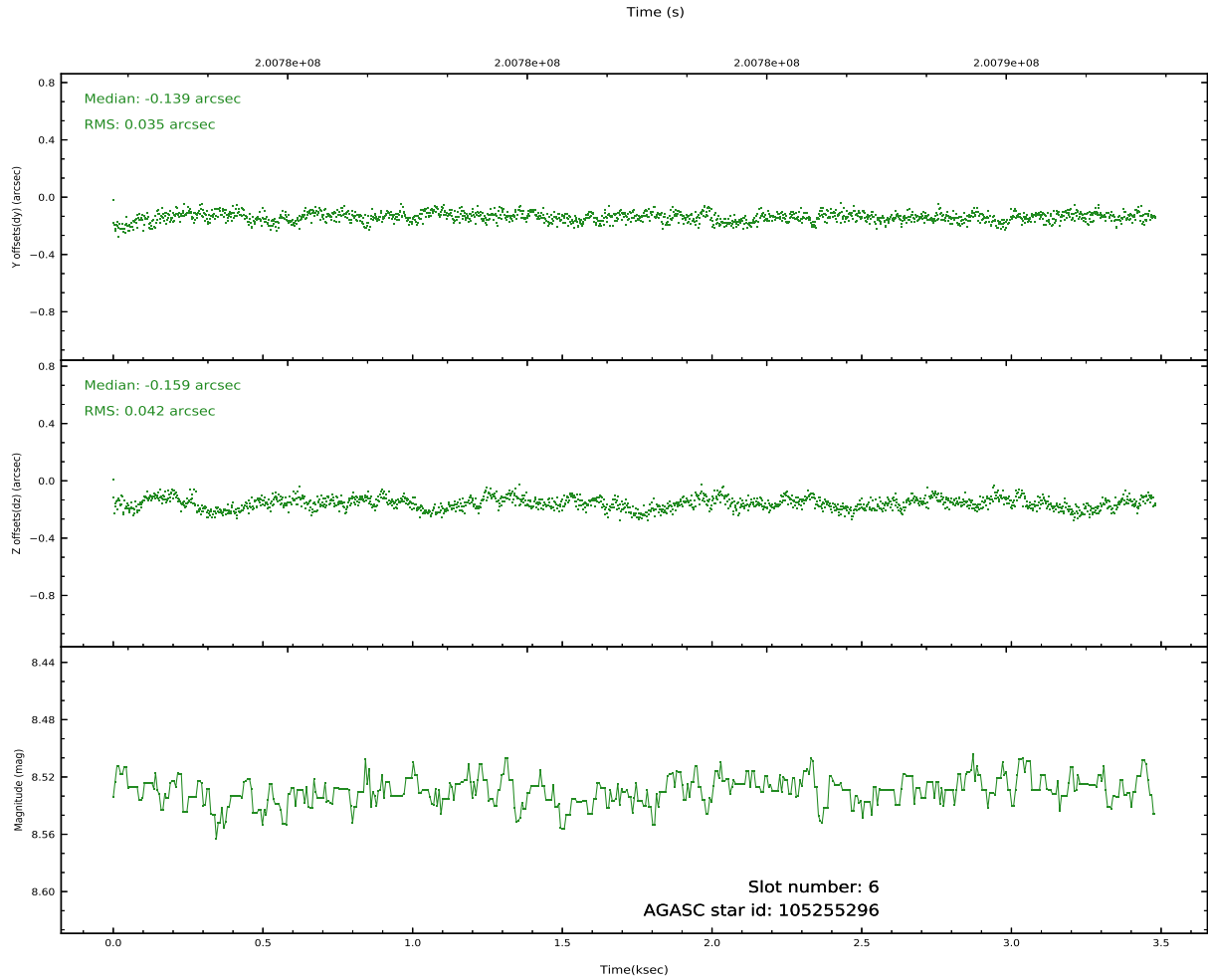
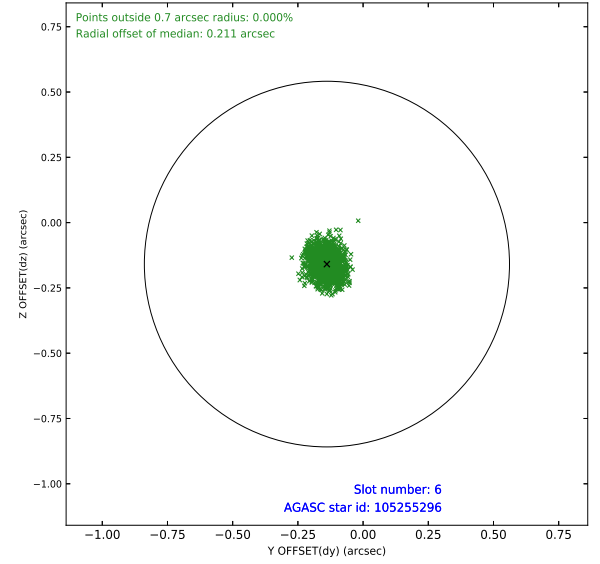
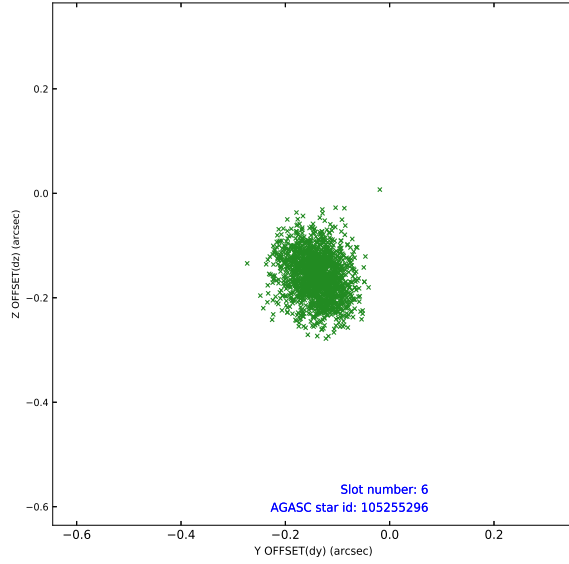
2.4.2 Slot 4



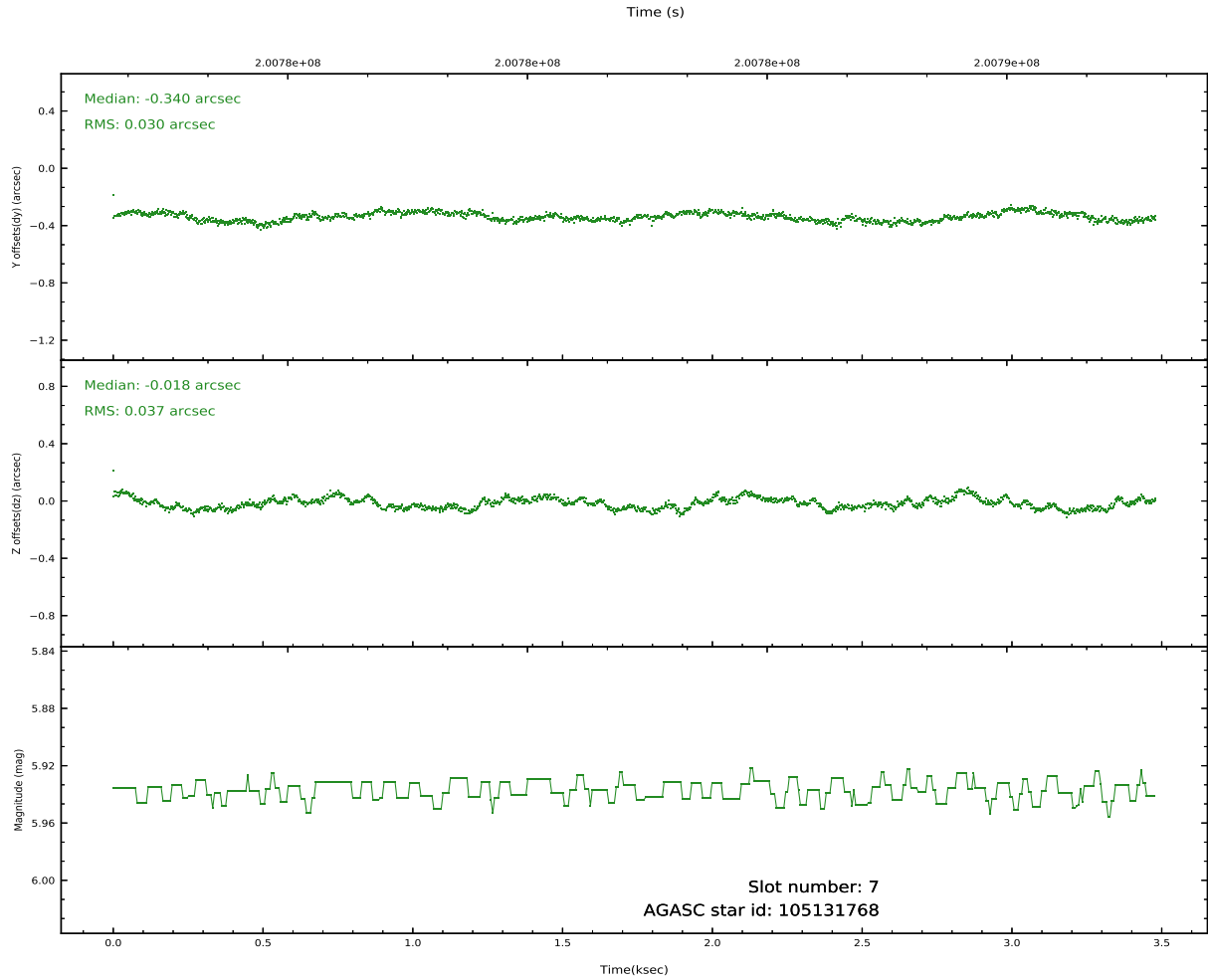
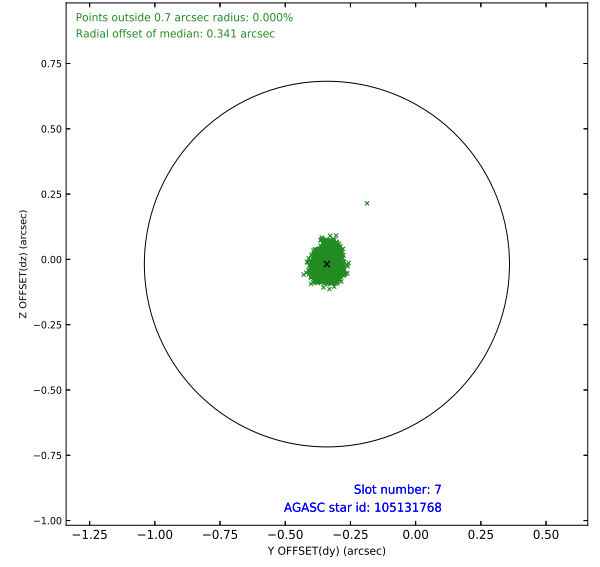
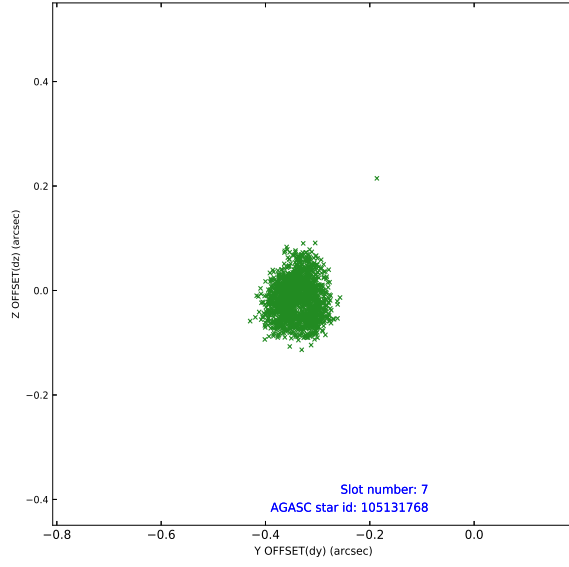
2.4.3 Slot 5



2.4.4 Slot 6

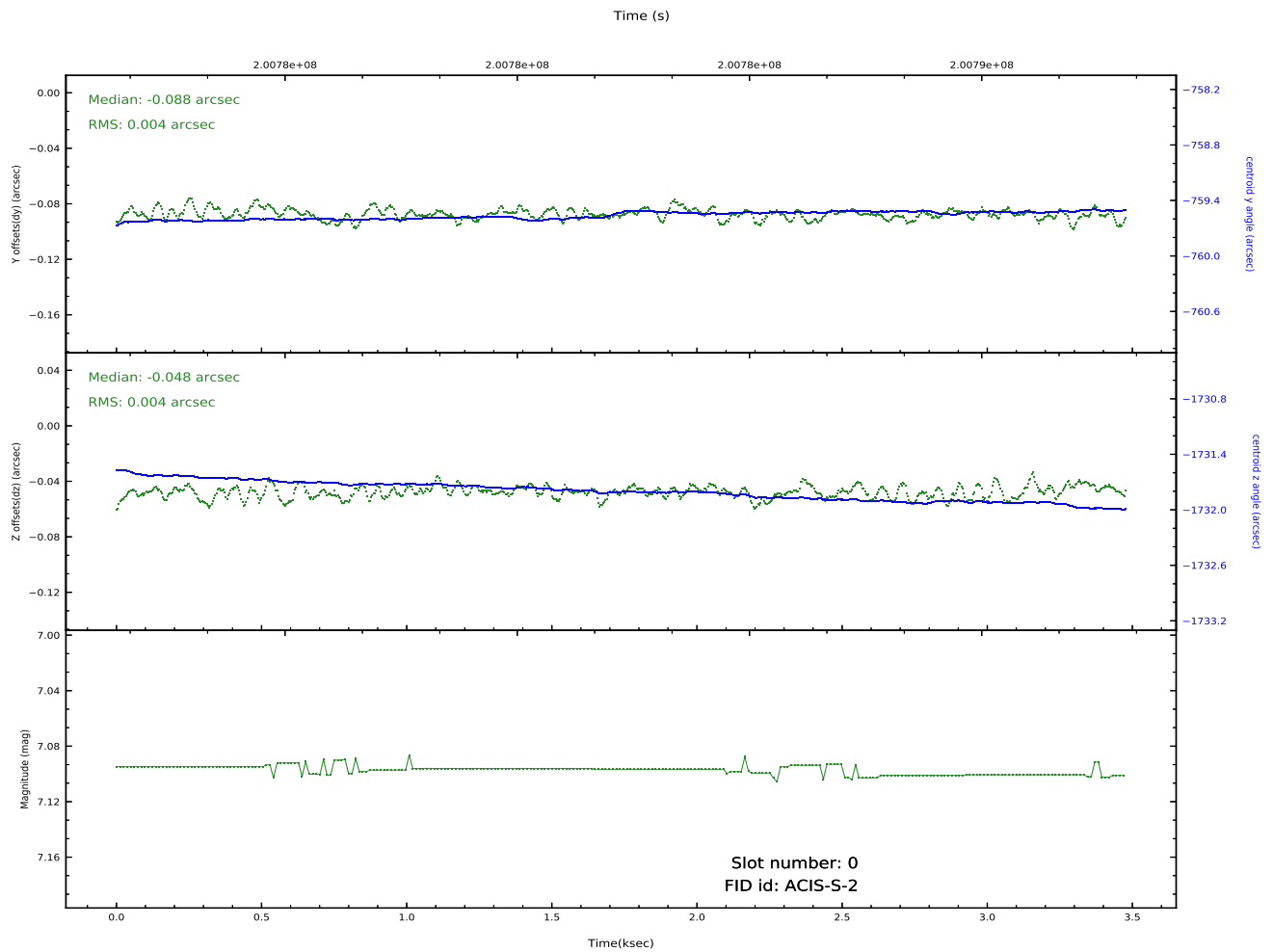
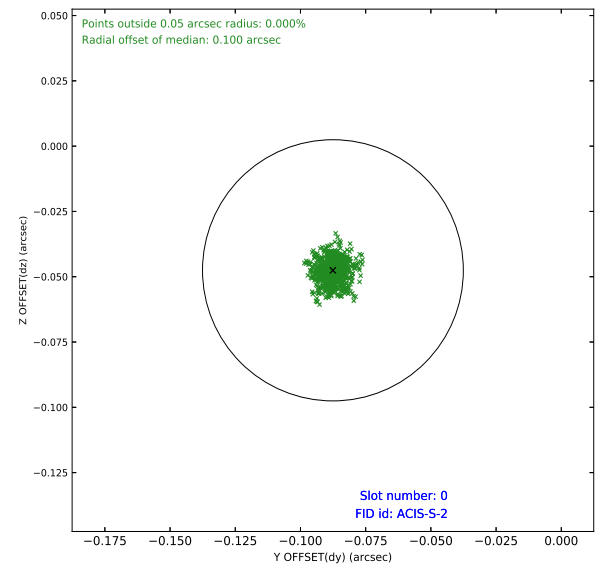
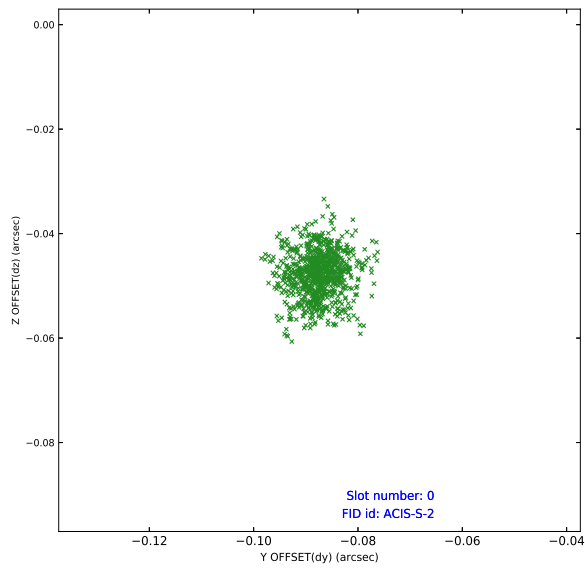


2.4.5 Slot 7

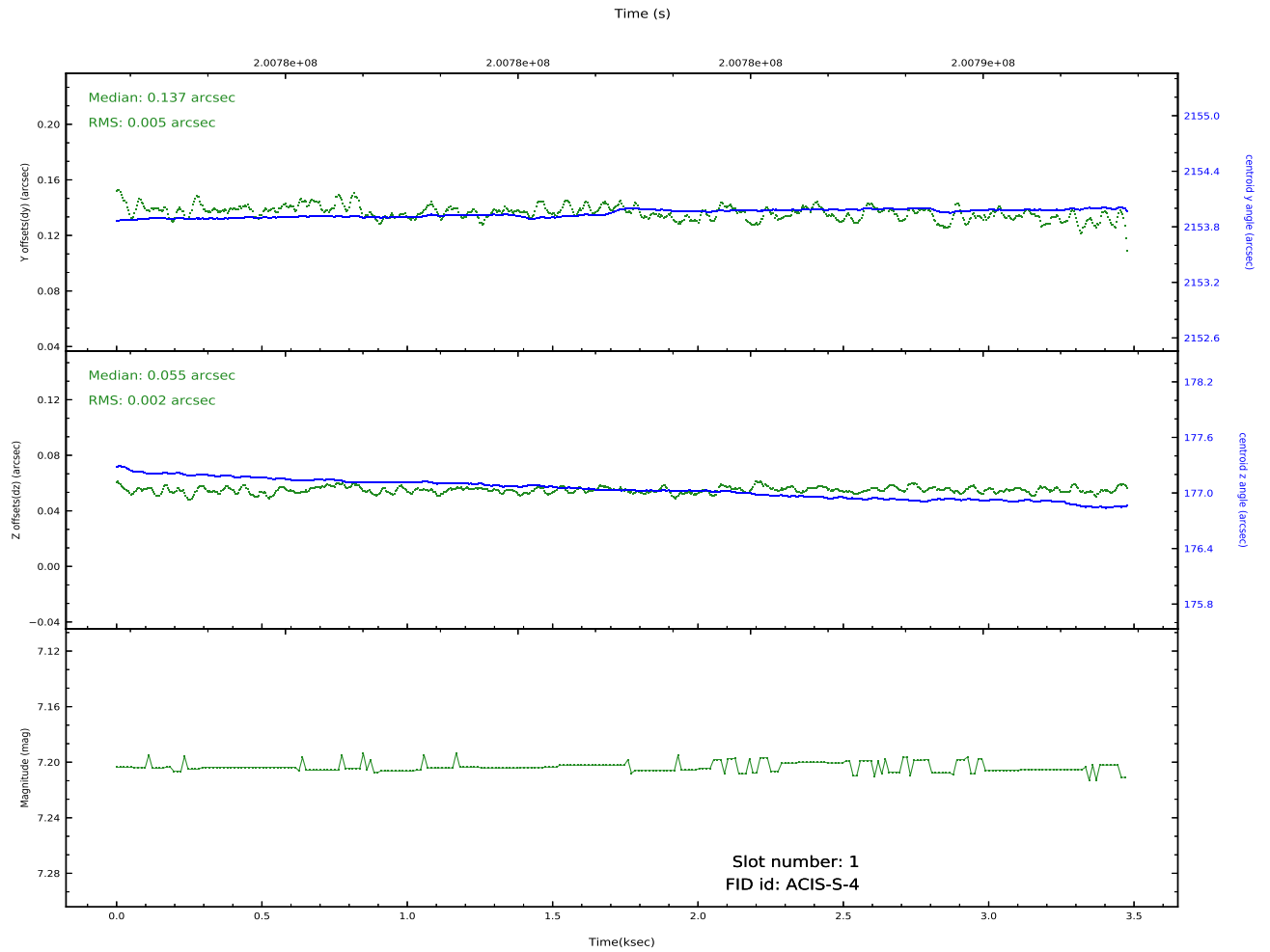
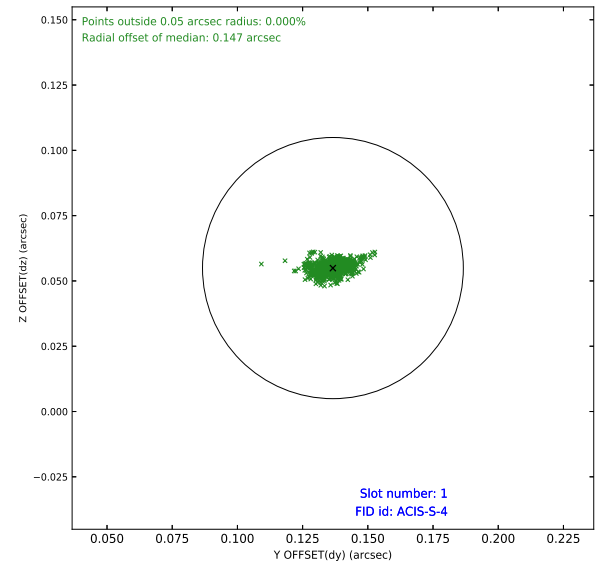
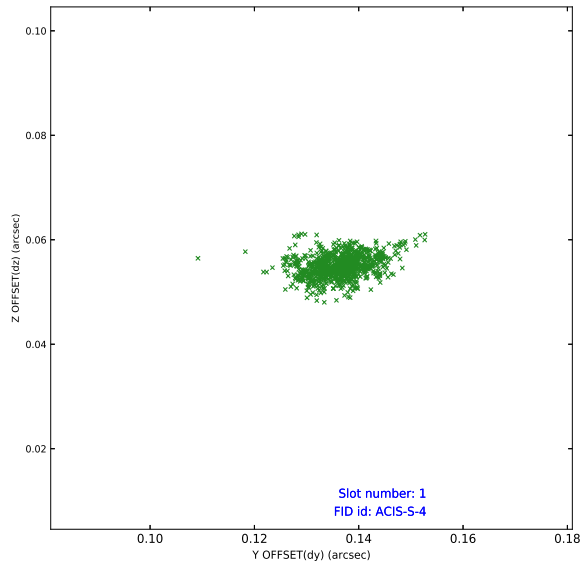


2.5 FID Slots

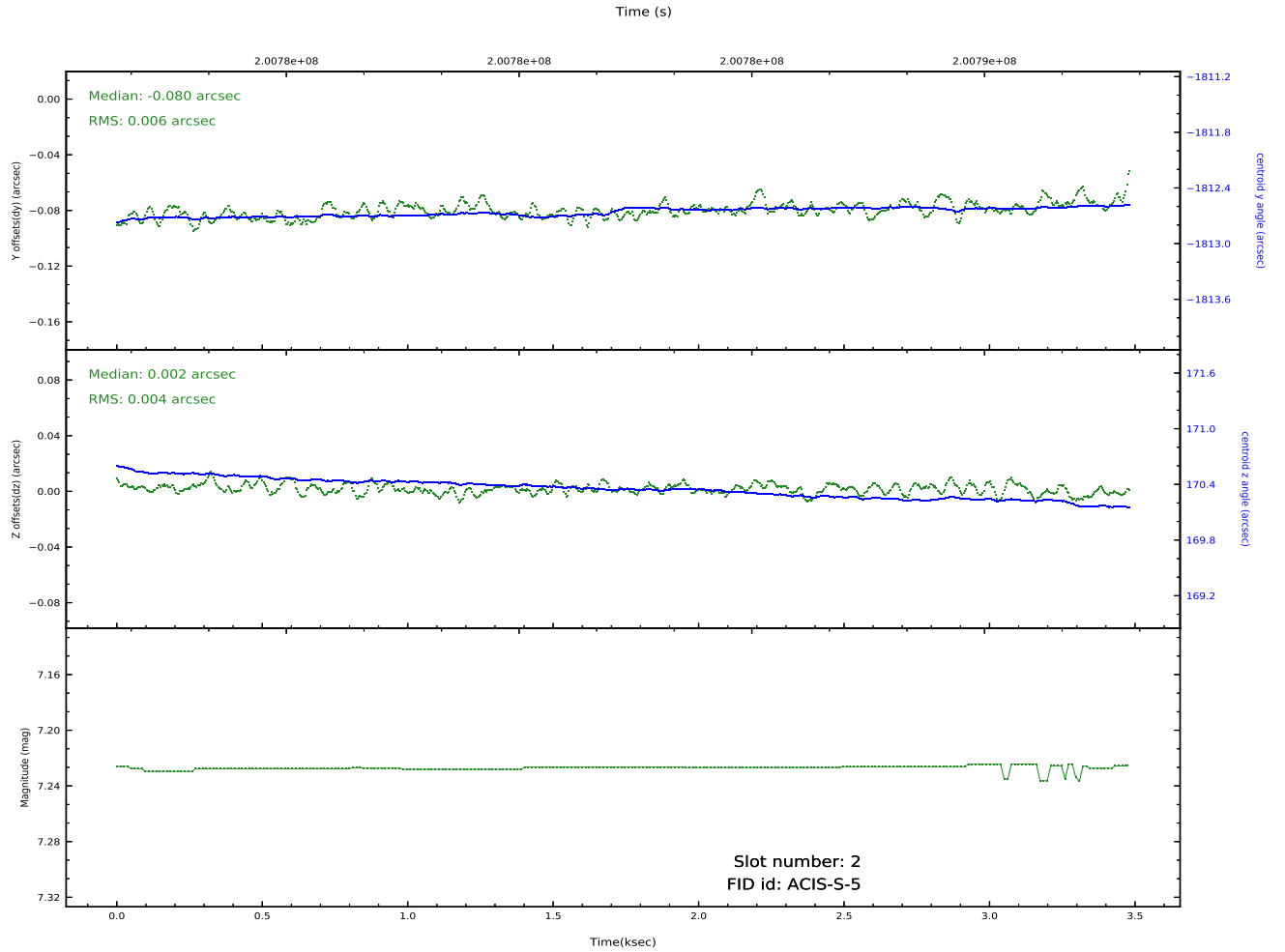
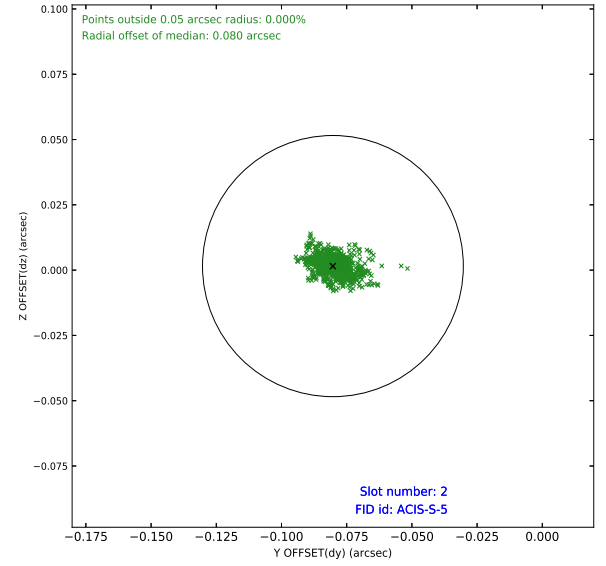
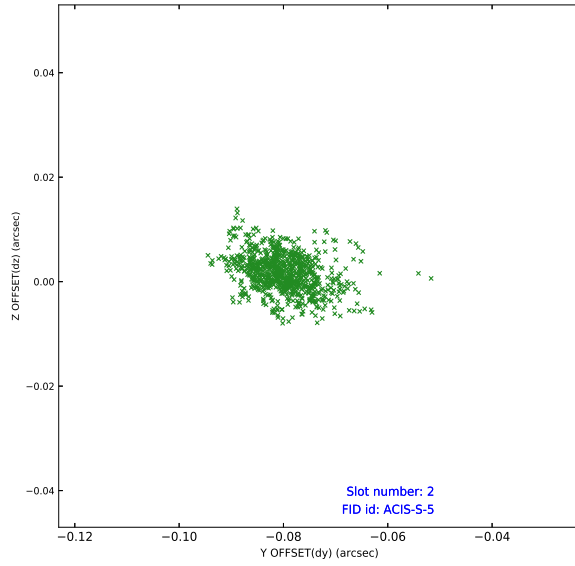
2.5.1 Slot 0



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)	2020.09.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.471

A.2 Comments

Window constraint met. Roll preference met.

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This is a moving target. Users will need to run sso_freeze or similar software to position the events in the reference frame of the target.