

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 19441 - L2 Version 2
Chandra X-Ray Center

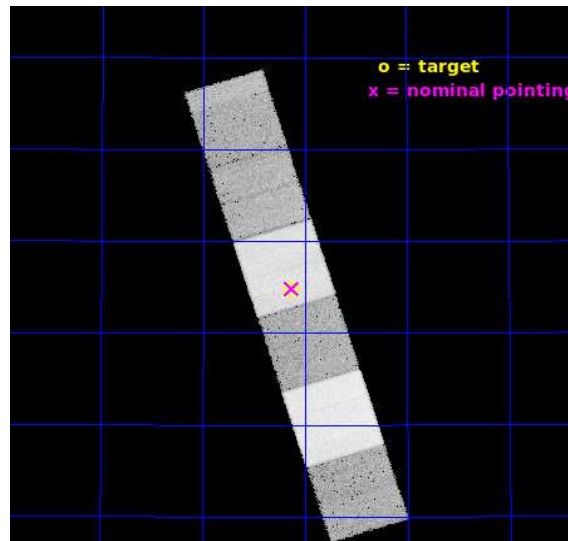
L2 Processing Date : Oct 26 2020

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1 Front

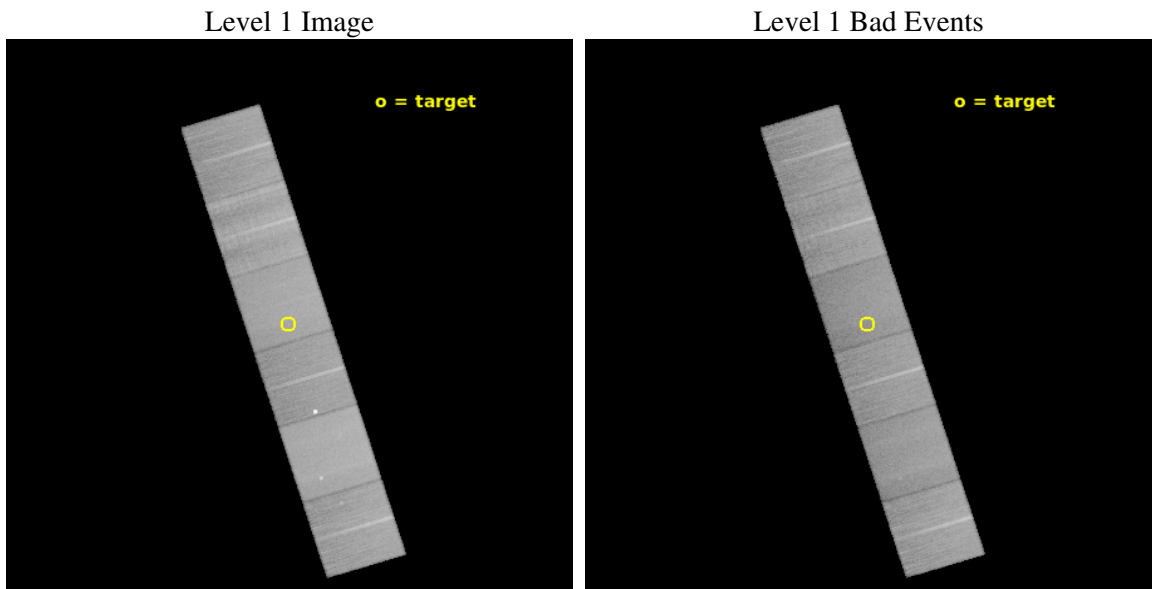
seq_num	601398	Sequence number
obs_id	19441	Observation id
title	Too young to shine? Nearby Primordial Starbursts and the X-ray Scaling Relations in the Early Universe	Proposal title
observer	Antara Basu-Zych	Principal investigator
object	J110508.11+444447.1	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	166.28375	Observer's specified target RA [deg]
dec_targ	44.7465	Observer's specified target Dec [deg]
ra_nom	166.2820466083	Nominal RA [deg]
dec_nom	44.747400730407	Nominal Dec [deg]
roll_nom	252.62531562805	Nominal Roll [deg]
revision	2	Processing version of data
ontime	29948.800446272	Sum of GTIs [s]
livetime	29569.570702019	Livetime [s]
ontime4	29948.800446272	Sum of GTIs [s]
ontime5	29948.800446272	Sum of GTIs [s]
ontime6	29948.800446272	Sum of GTIs [s]
ontime7	29948.800446272	Sum of GTIs [s]
ontime8	29948.800446272	Sum of GTIs [s]
ontime9	29948.800446272	Sum of GTIs [s]
l2events	376640	Number of level 2 events



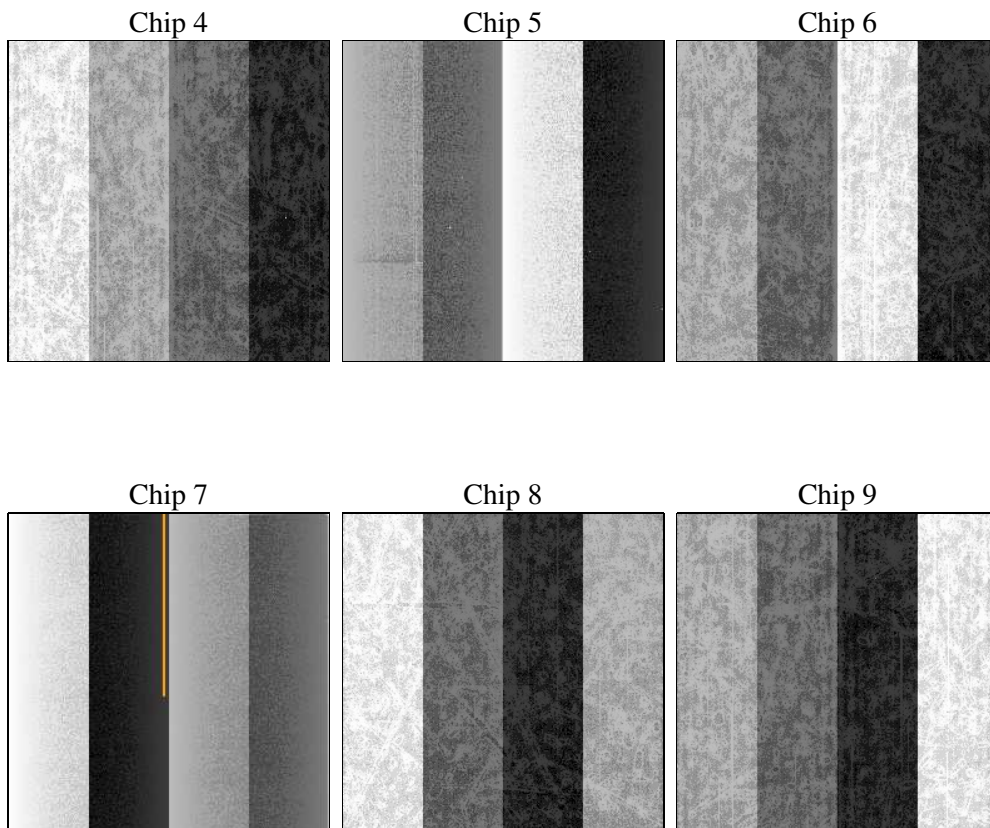
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	30000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	29948.800446272	Sum of GTIs [s]
caldsver	4.9.3	 	ontime4	29948.800446272	Sum of GTIs [s]
date	2020-10-26T06:55:17	Date and time of file creation	ontime5	29948.800446272	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	29948.800446272	Sum of GTIs [s]
			ontime7	29948.800446272	Sum of GTIs [s]
			ontime8	29948.800446272	Sum of GTIs [s]
			ontime9	29948.800446272	Sum of GTIs [s]
			l1events	1653842	Number of level 1 events

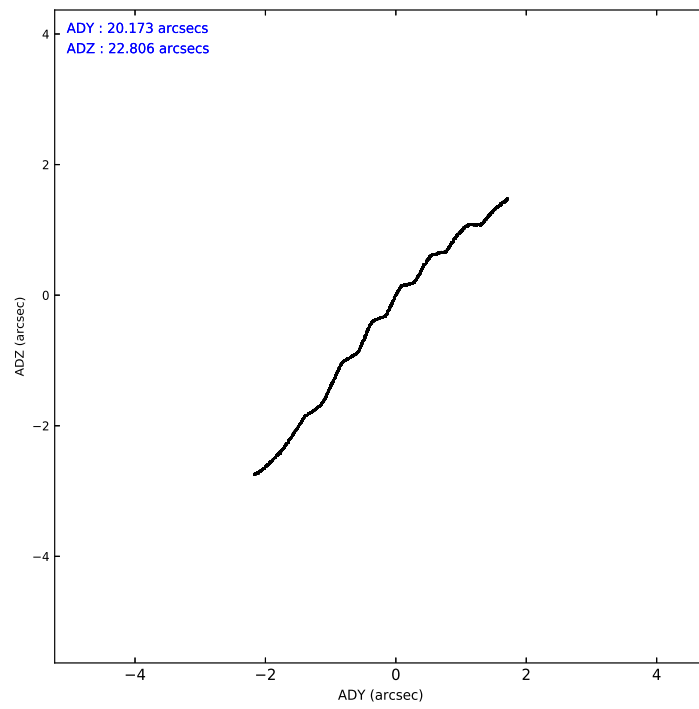
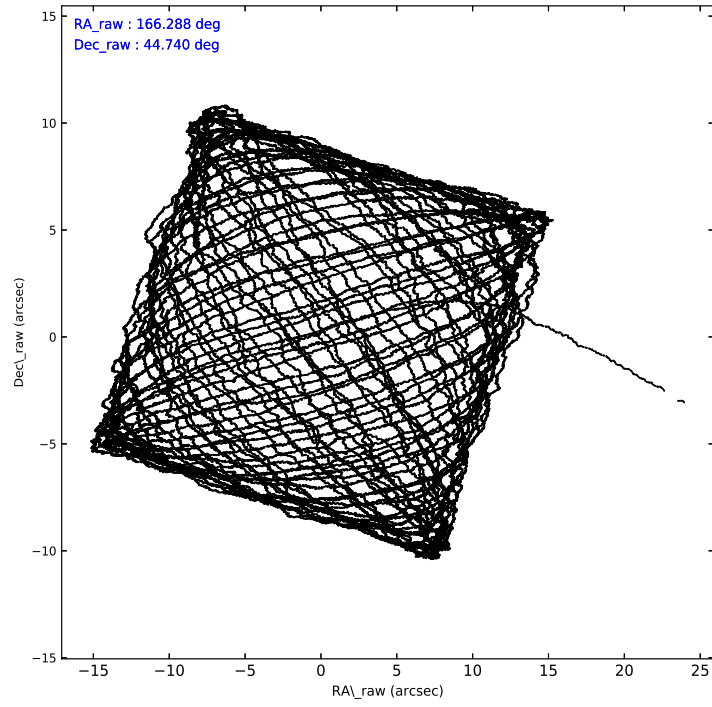
2.1.4 Events

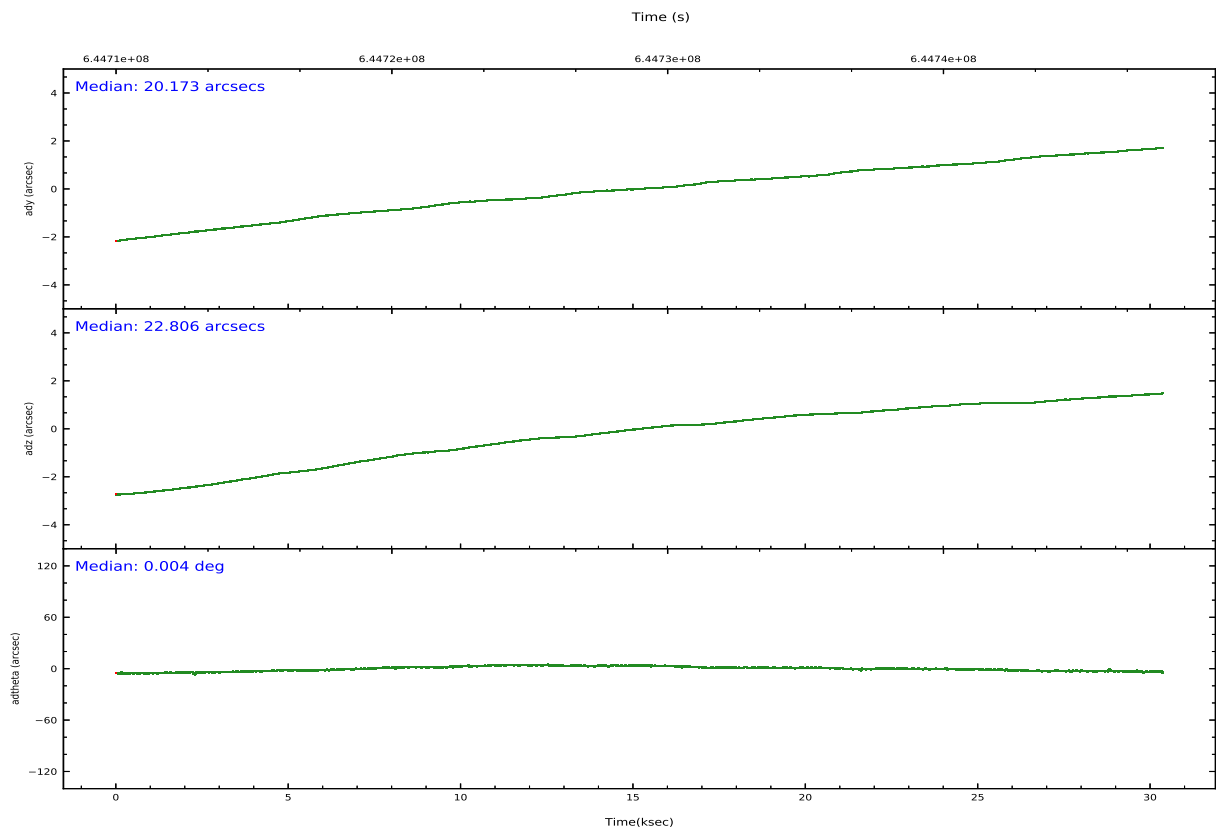
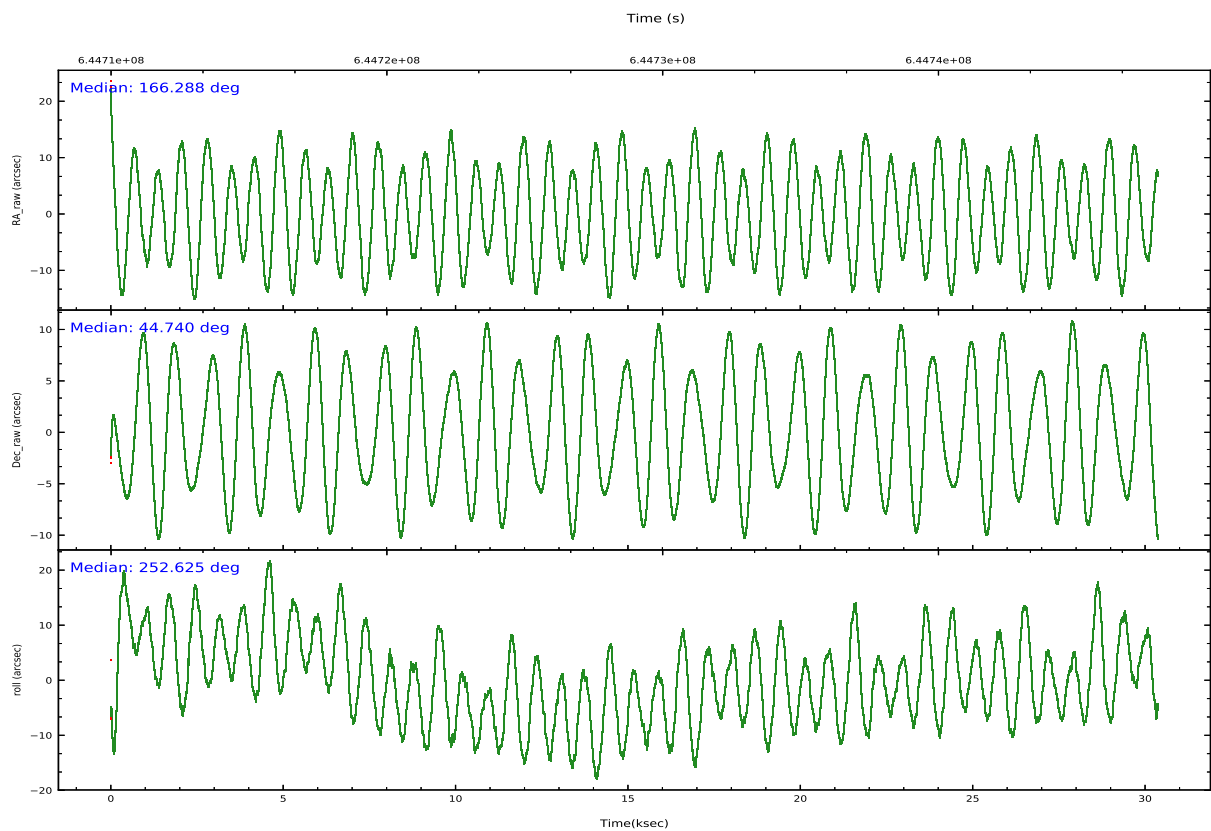
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	263183	349677	232903	285550	297631	224898	grade 0 events	11298	10172	8264	10536	22968	9356
rejected events	234703	181696	198906	160300	216721	197959		4%	2%	3%	3%	7%	4%
rejected %	89%	51%	85%	56%	72%	88%	grade 1 events	256	1018	114	423	239	119
								0%	0%	0%	0%	0%	0%
							grade 2 events	6915	53579	14852	26833	19779	6265
								2%	15%	6%	9%	6%	2%
							grade 3 events	2903	5355	2425	10017	7984	2663
								1%	1%	1%	3%	2%	1%
							grade 4 events	2719	5130	2455	9847	7552	2629
								1%	1%	1%	3%	2%	1%
							grade 5 events	10914	24412	10319	28740	15988	11699
								4%	6%	4%	10%	5%	5%
							grade 6 events	4647	93761	6006	68037	22632	6029
								1%	26%	2%	23%	7%	2%
							grade 7 events	223531	156250	188468	131117	200489	186138
								84%	44%	80%	45%	67%	82%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-456789	ACIS-456789	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	166.279410	166.2820466083	CCD I2 on	N	N
[deg] Pointing Dec	44.766602	44.747400730407	CCD I3 on	N	N
[deg] Pointing Roll	252.483152	252.62531562805	CCD S0 on	O3	Y
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O2	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	Y	Y
[s] Observation start time (MET)	644712372.184000	644711306.40177	CCD S5 on	O1	Y
Observation start date	2018-06-06T22:45:03	2018-06-06T22:28:26	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	644742372.184000	644742927.14114	On-chip summing requested	N	N
Observation end date	2018-06-07T07:05:03	2018-06-07T07:15:27	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



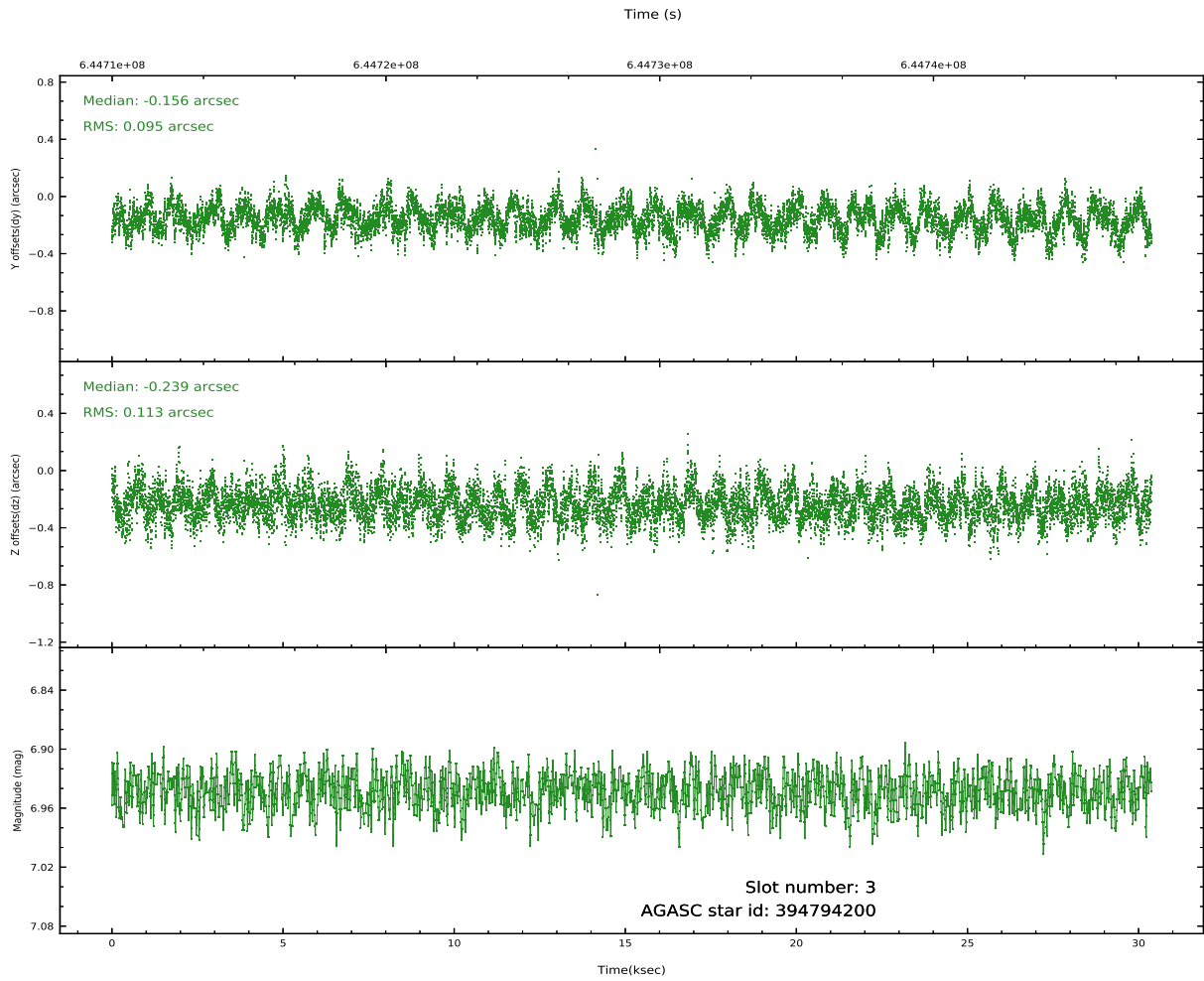
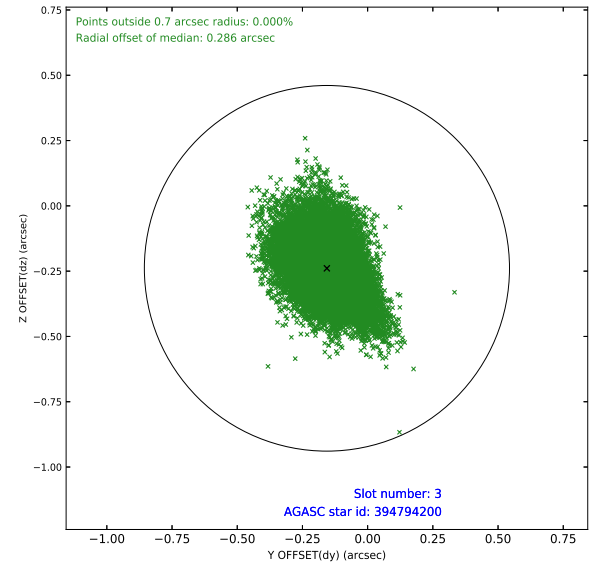
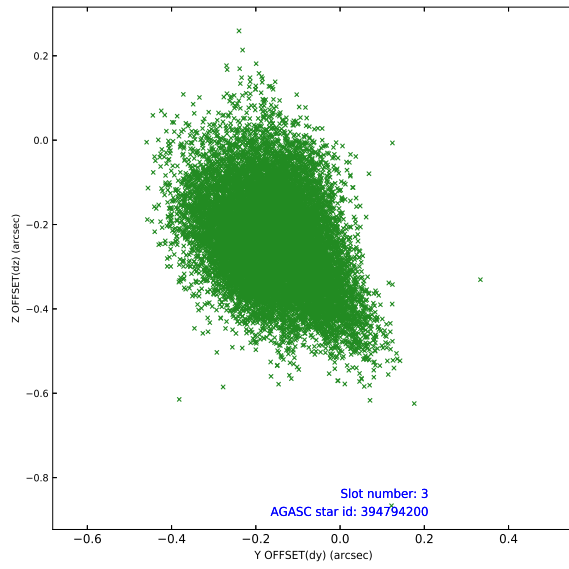


Slot Statistics

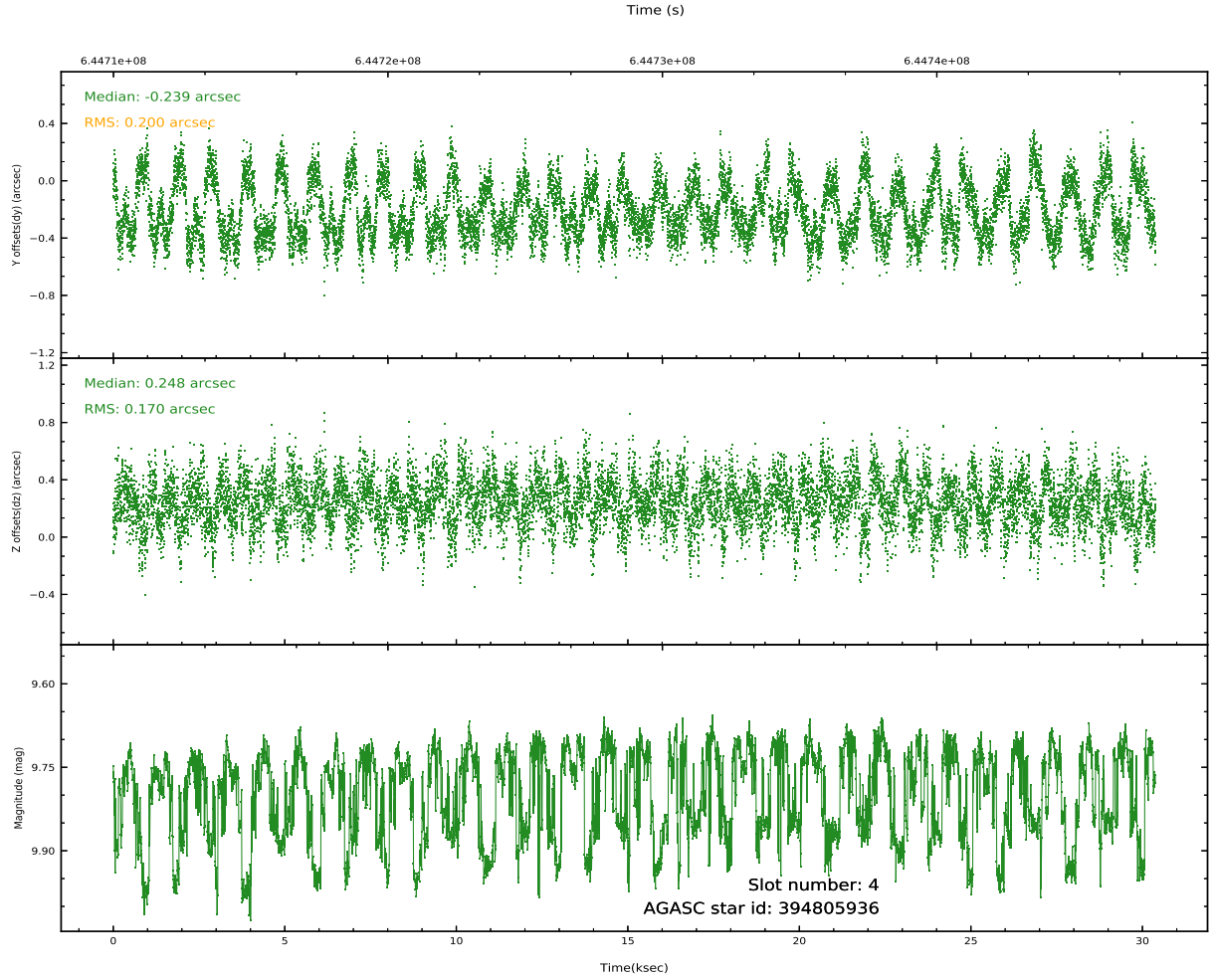
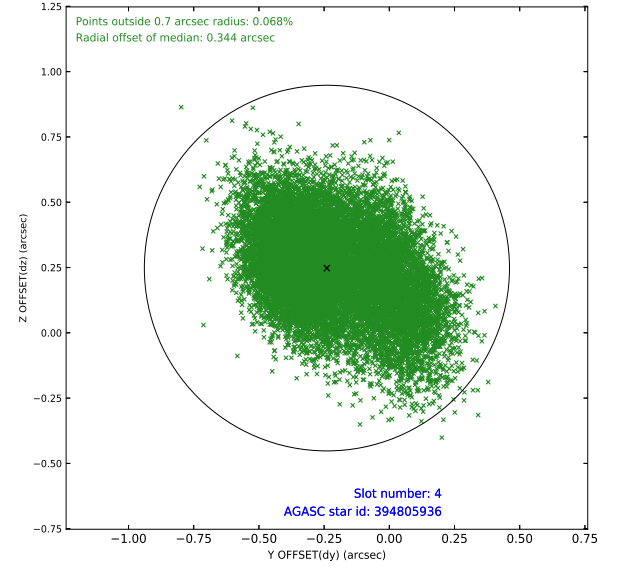
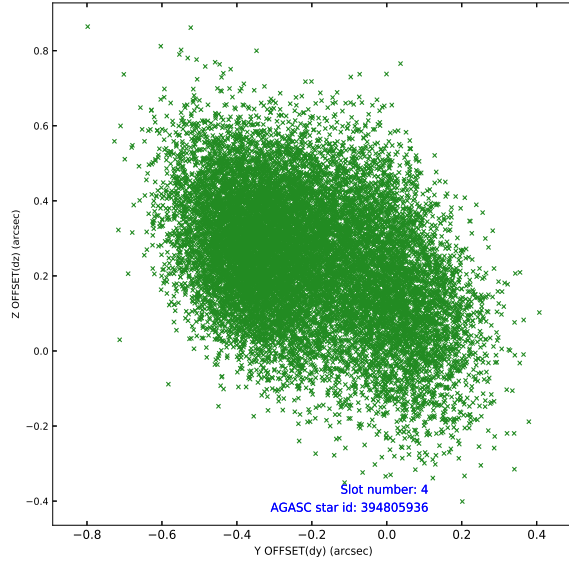
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.04	7410	1.000	0.127	-0.104	0.029	0.048	0.000000	0.000000	-773.34	-1744
1	FID		ACIS-S-4	7.15	7410	1.000	0.081	-0.031	0.035	0.052	0.000000	0.000000	2140.13	164
2	FID		ACIS-S-5	7.15	7410	1.000	-0.240	0.144	0.029	0.043	0.000000	0.000000	-1826.20	158
3	GUIDE	used	394794200	6.94	14820	1.000	-0.156	-0.239	0.155	0.258	166.441446	44.301560	1470.55	902
4	GUIDE	used	394805936	9.79	14788	1.000	-0.239	0.248	0.278	0.454	167.250286	44.916261	-1272.87	2194
5	GUIDE	used	394806632	9.61	14796	1.000	0.370	-0.057	0.387	0.555	166.006396	44.928413	-345.85	-839
6	GUIDE	used	451418792	9.16	14807	1.000	-0.035	0.110	0.189	0.316	166.129254	45.157077	-1225.48	-786
7	GUIDE	used	394809024	7.28	14818	1.000	0.005	-0.079	0.152	0.255	165.913133	44.329586	1784.79	-428

2.4 Star Slots

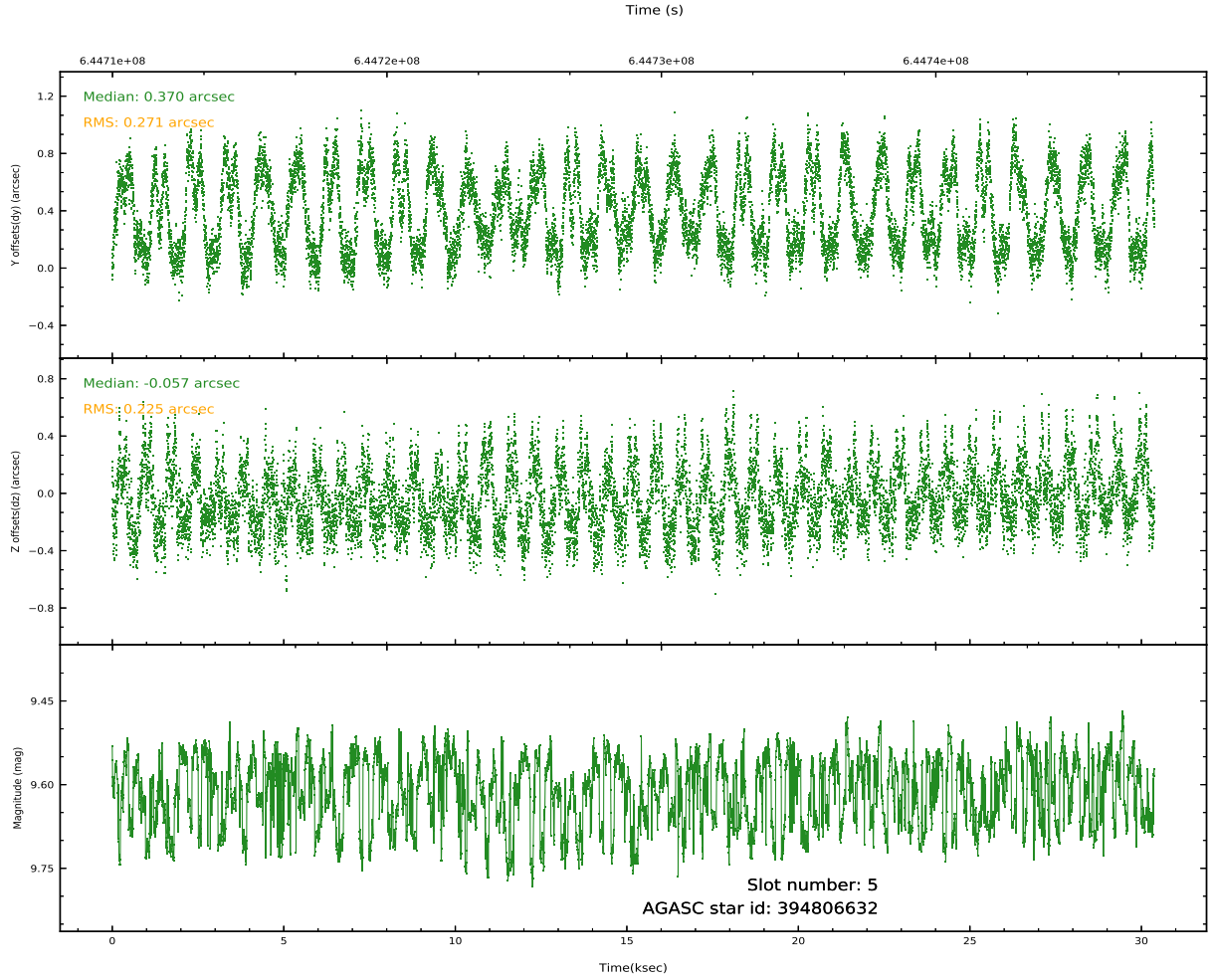
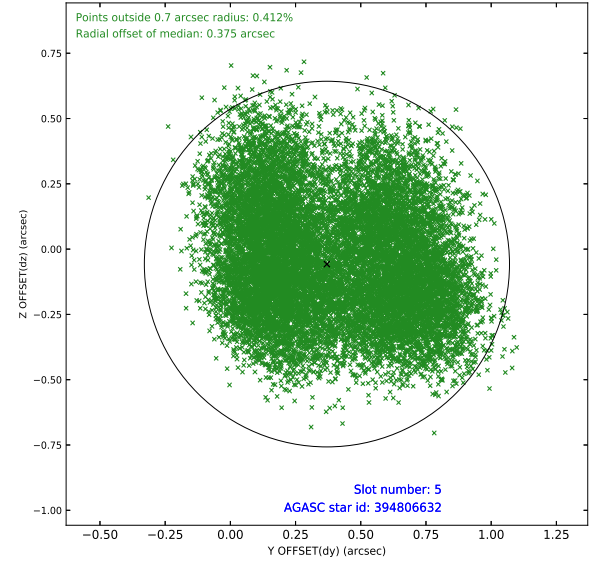
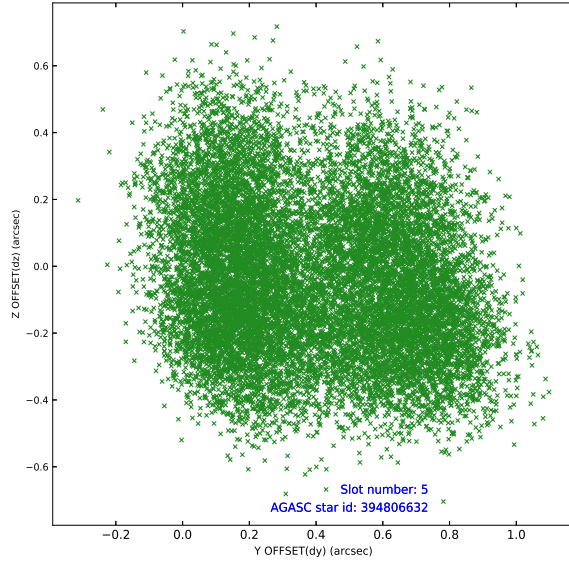
2.4.1 Slot 3



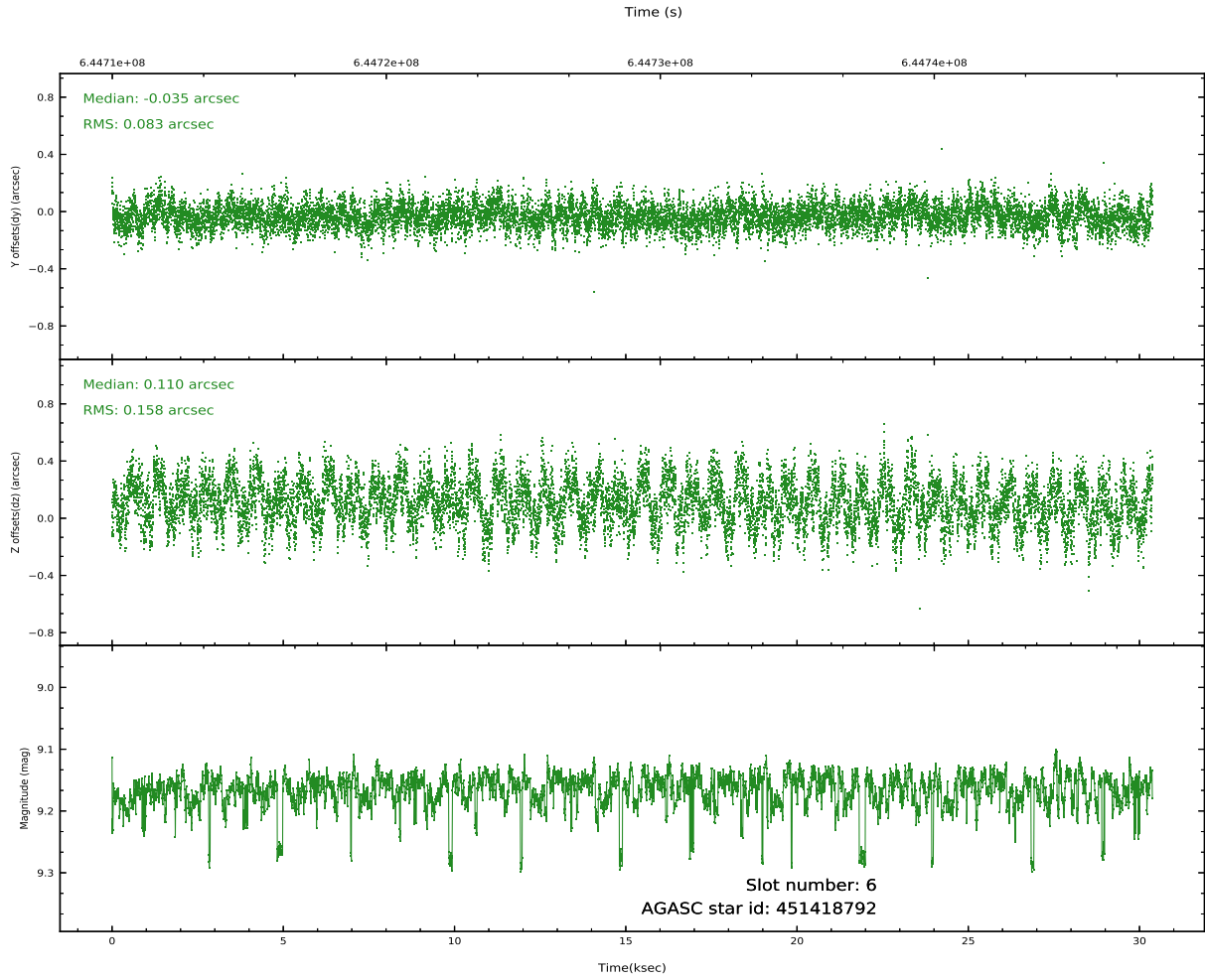
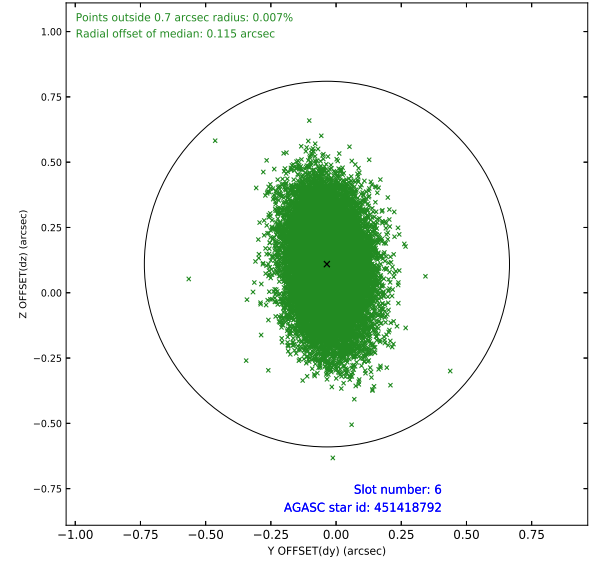
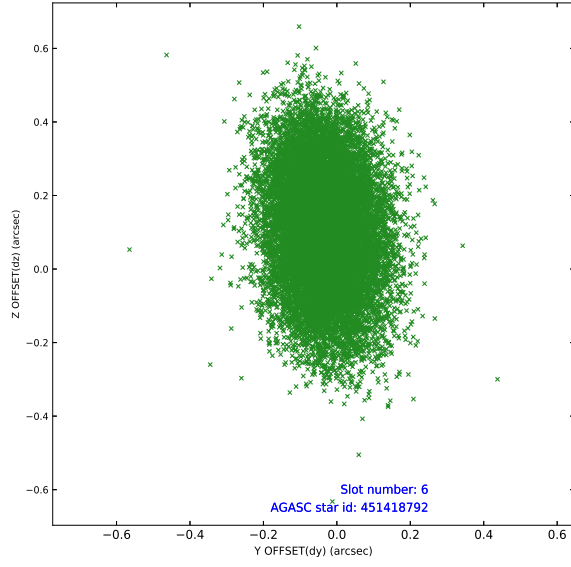
2.4.2 Slot 4



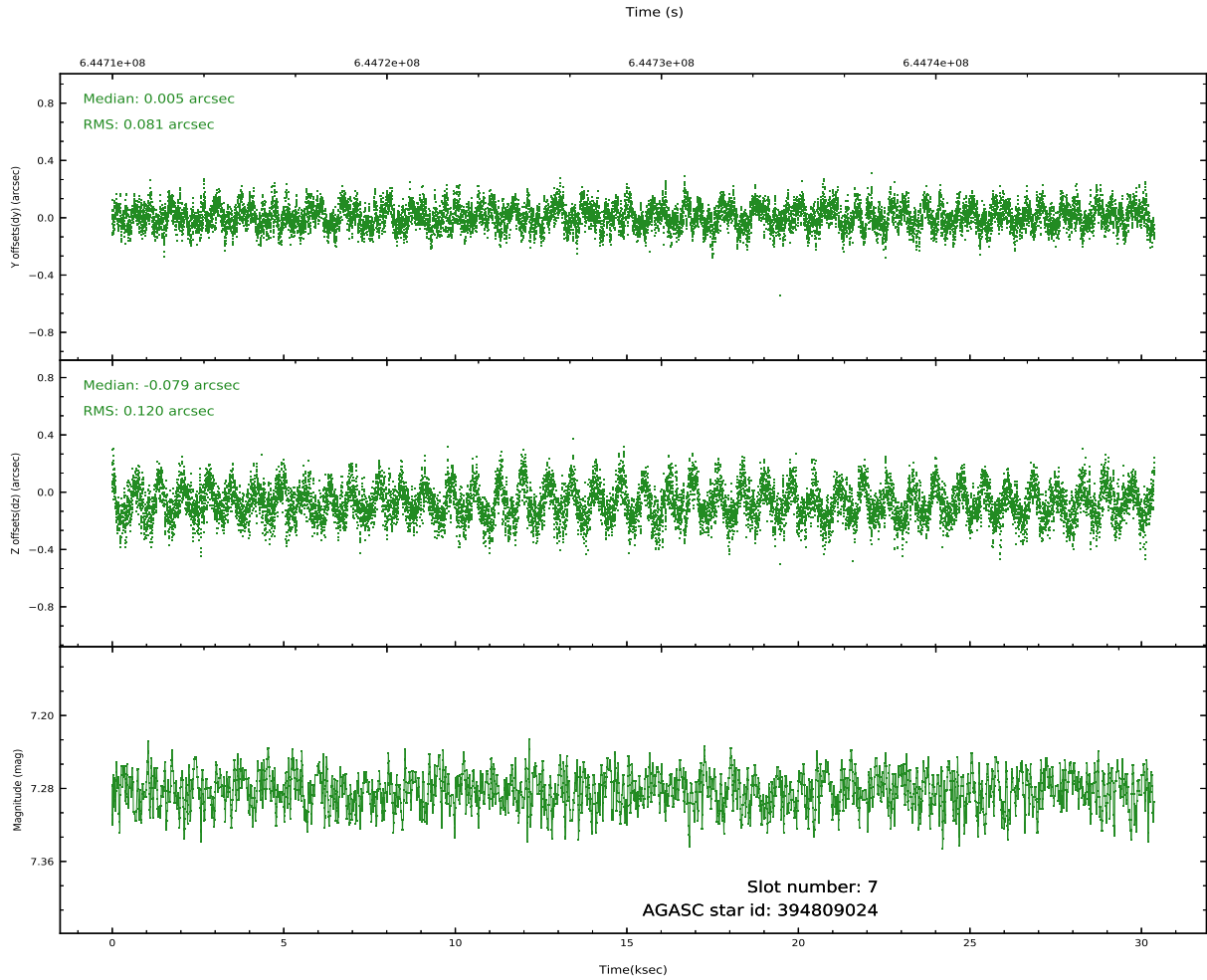
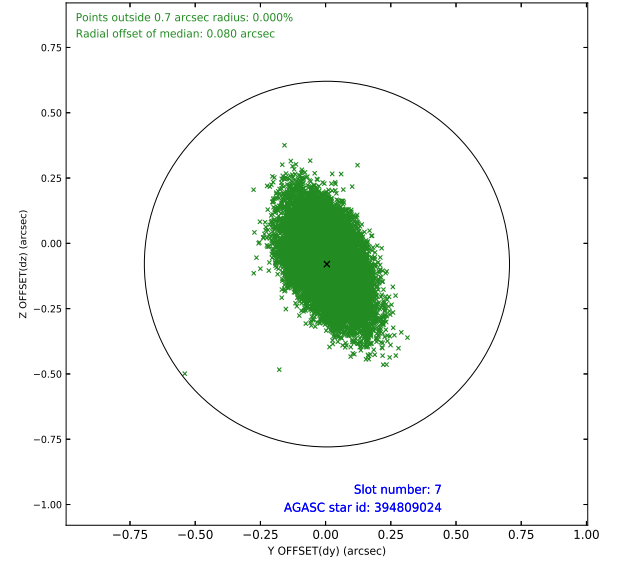
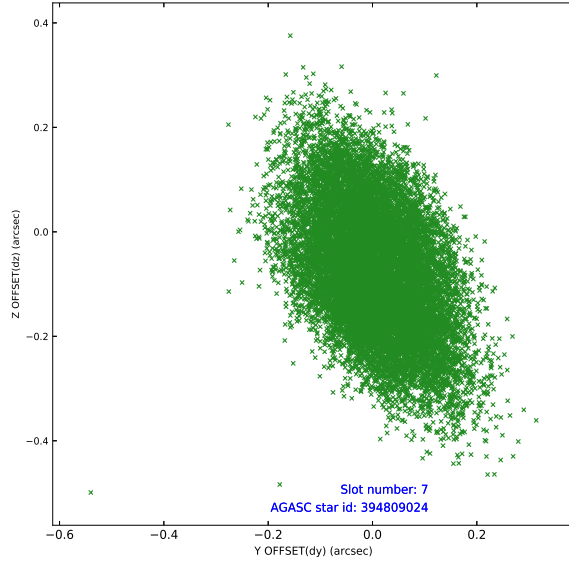
2.4.3 Slot 5



2.4.4 Slot 6

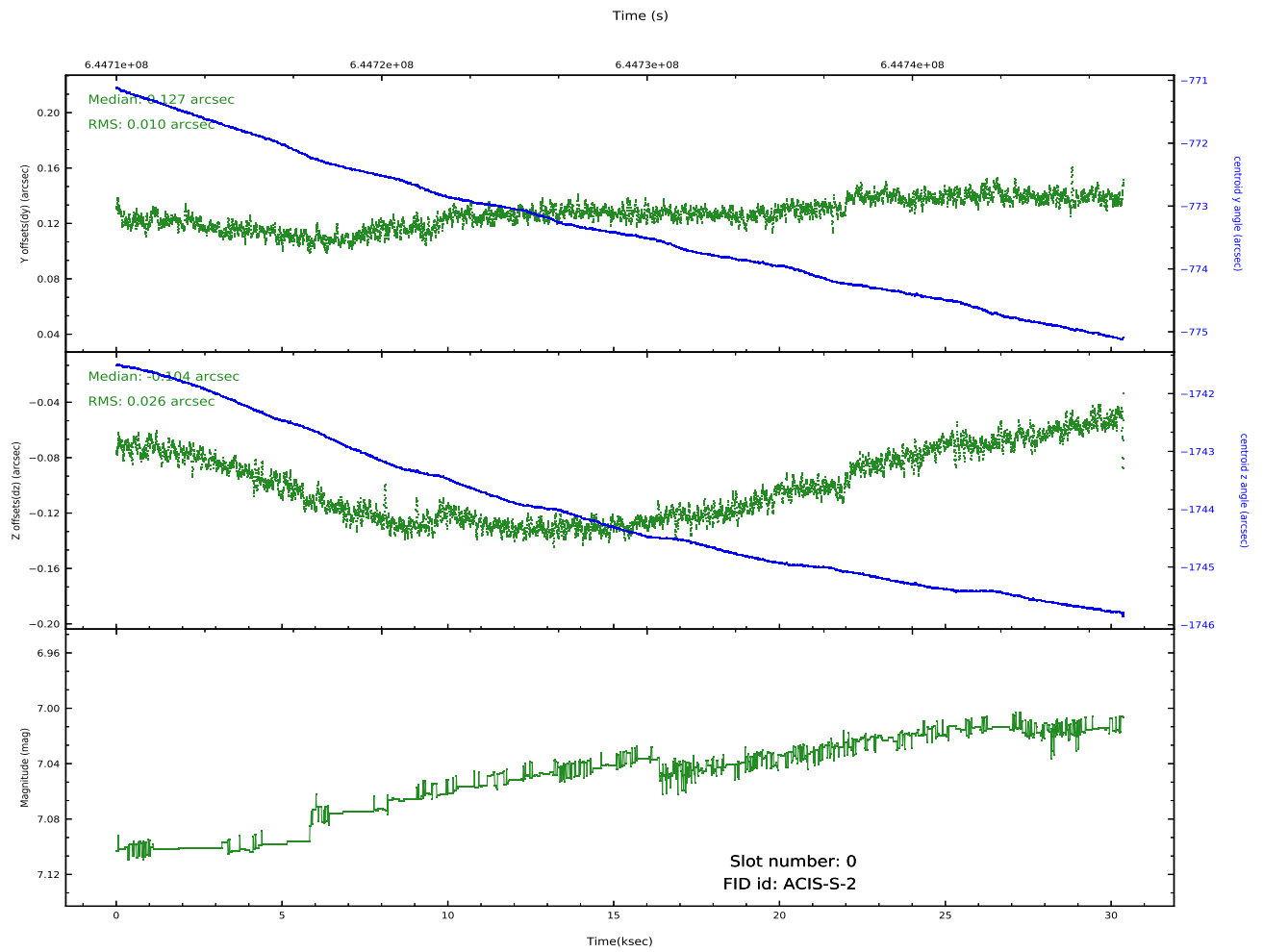
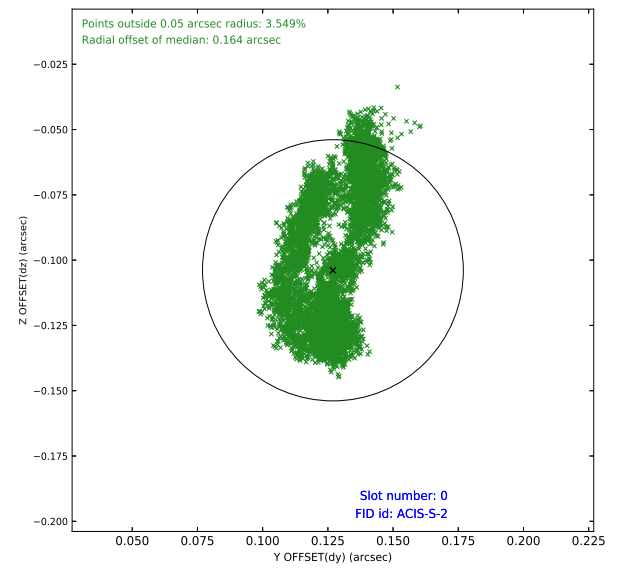
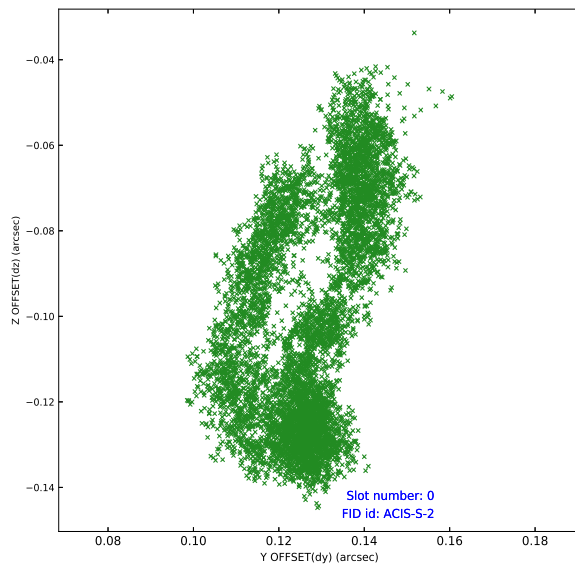


2.4.5 Slot 7

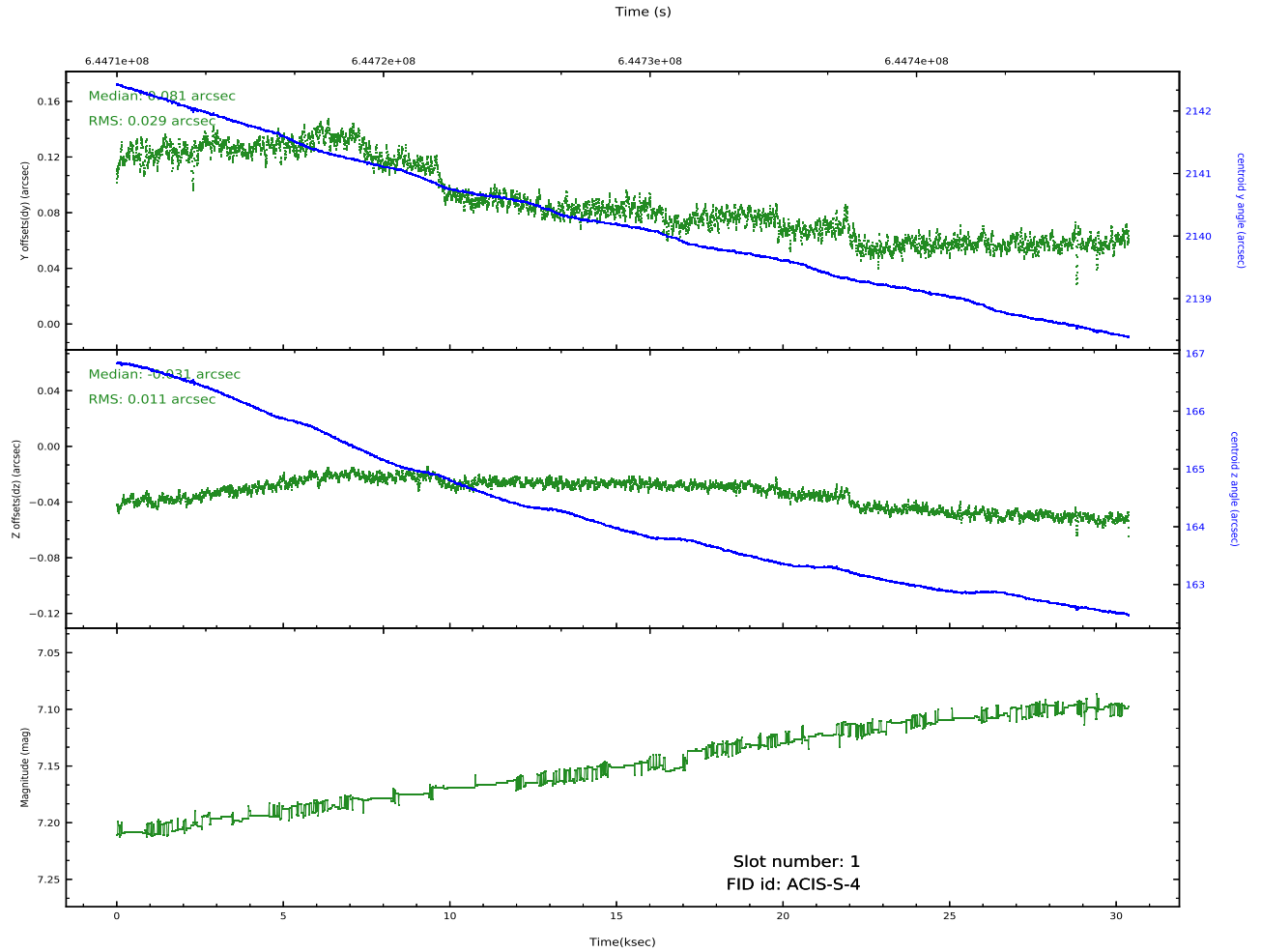
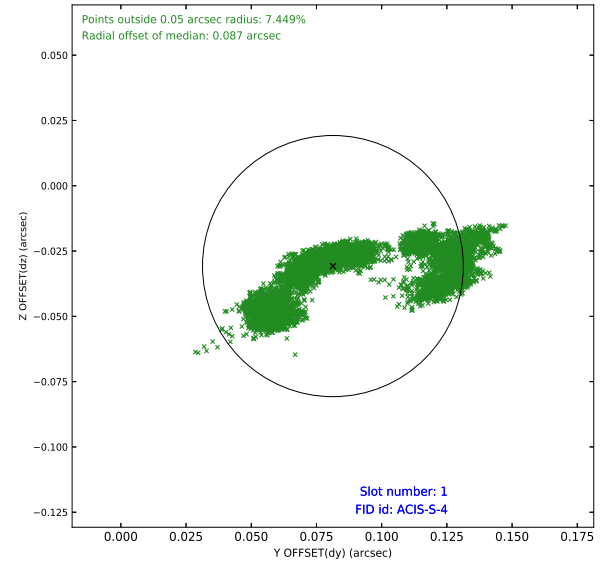
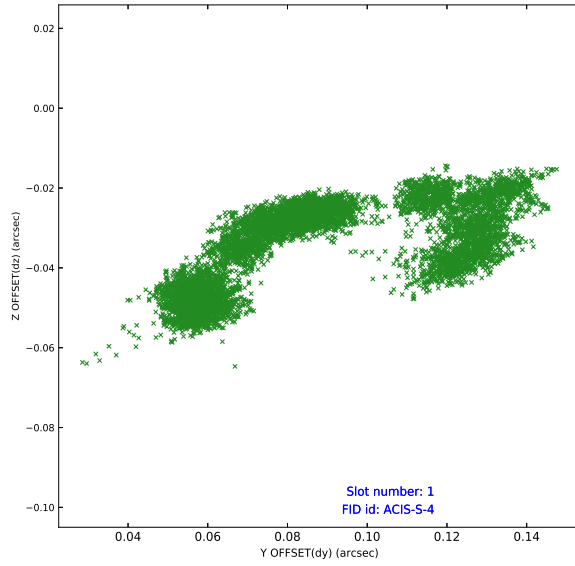


2.5 FID Slots

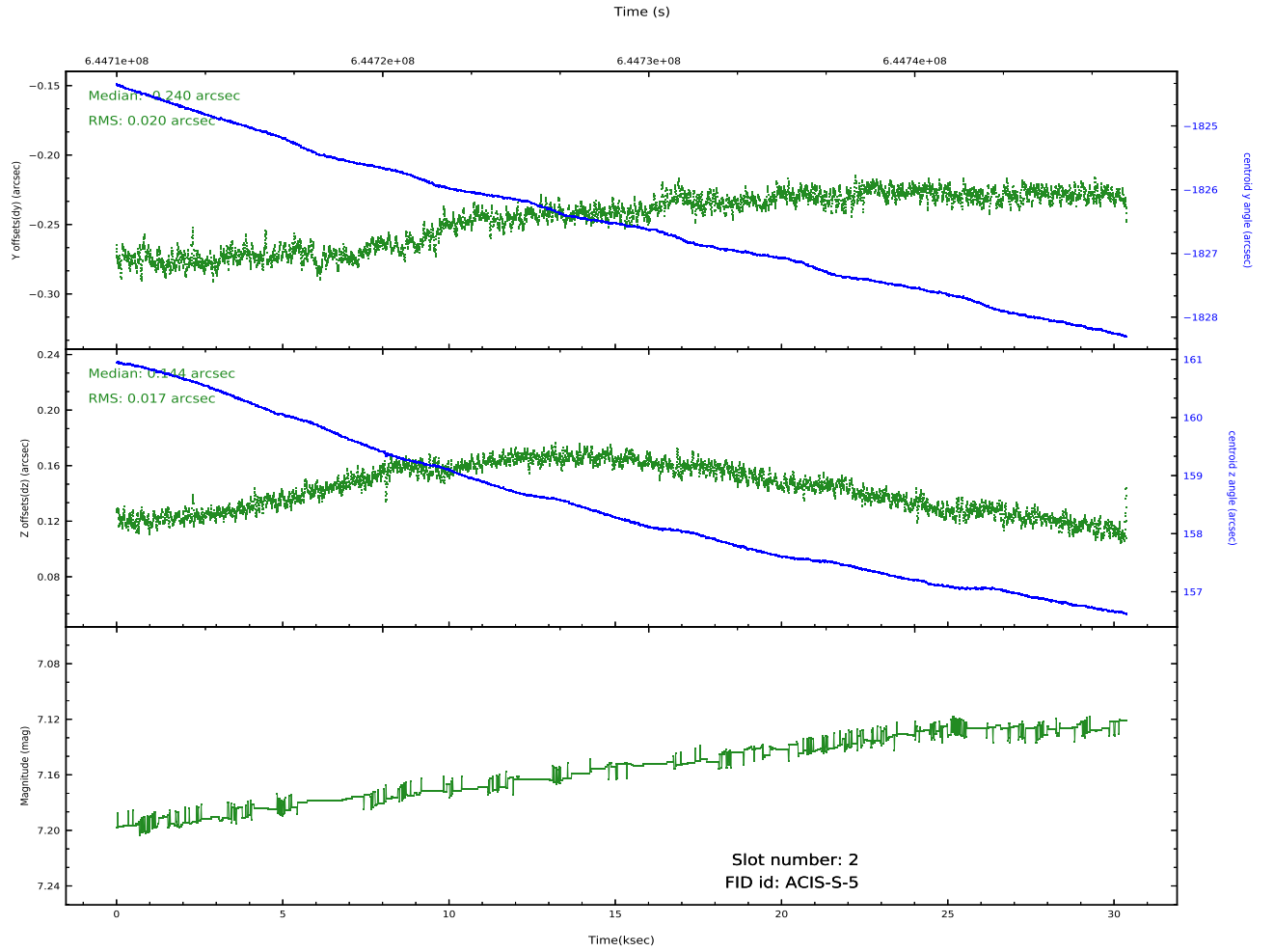
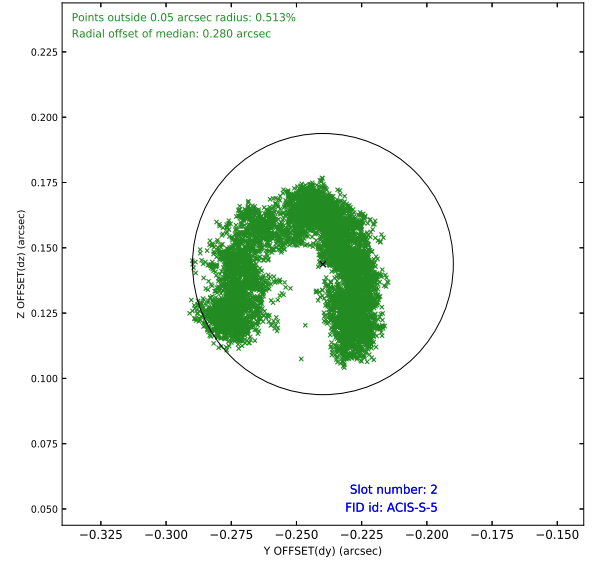
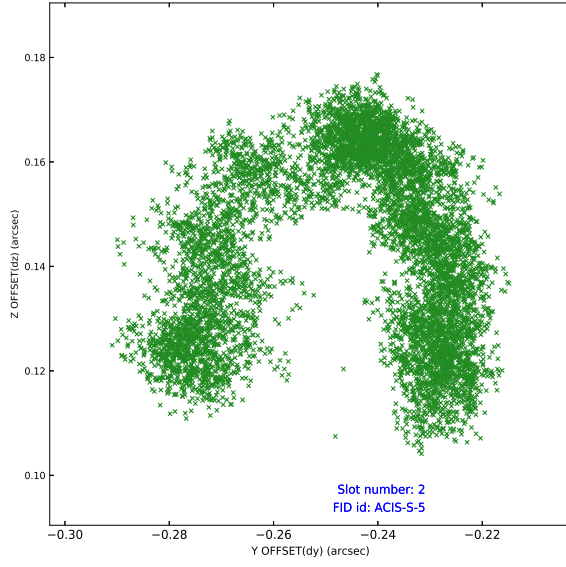
2.5.1 Slot 0



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)	2020.10.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	29.948800446272

A.2 Comments