

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20325 - L2 Version 2
Chandra X-Ray Center

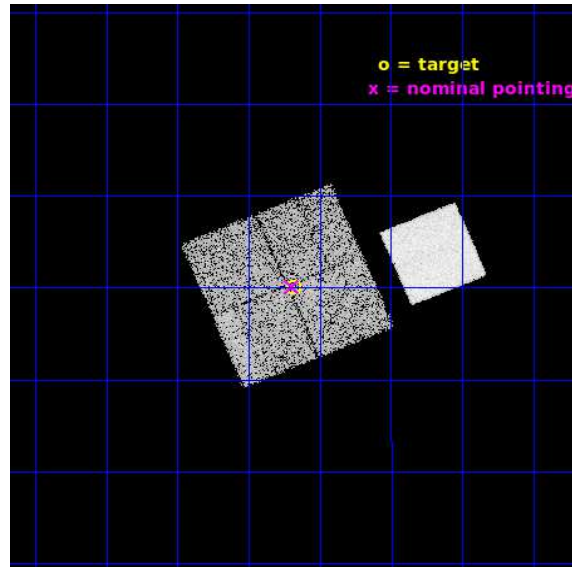
L2 Processing Date : Oct 24 2020

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1 Front

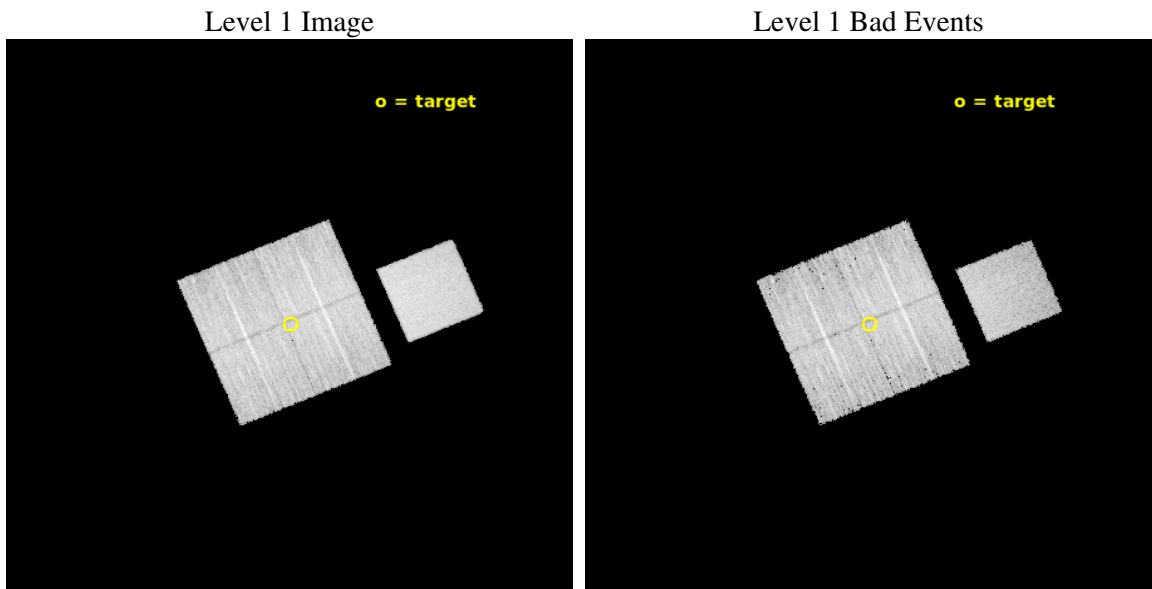
seq_num	503018	Sequence number
obs_id	20325	Observation id
title	Revealing pulsars hidden in the 3rd Fermi Catalog	Proposal title
observer	Blagoy Rangelov	Principal investigator
object	3FGL J1906.6+0720	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	286.67125	Observer's specified target RA [deg]
dec_targ	7.333889	Observer's specified target Dec [deg]
ra_nom	286.67406115901	Nominal RA [deg]
dec_nom	7.3354430834094	Nominal Dec [deg]
roll_nom	67.108211540234	Nominal Roll [deg]
revision	2	Processing version of data
ontime	9893.7630944252	Sum of GTIs [s]
livetime	9764.4937959141	Livetime [s]
ontime0	9893.6399744749	Sum of GTIs [s]
ontime1	9890.5400540829	Sum of GTIs [s]
ontime2	9893.7220543623	Sum of GTIs [s]
ontime3	9893.7630944252	Sum of GTIs [s]
ontime7	9893.8041344881	Sum of GTIs [s]
l2events	67323	Number of level 2 events



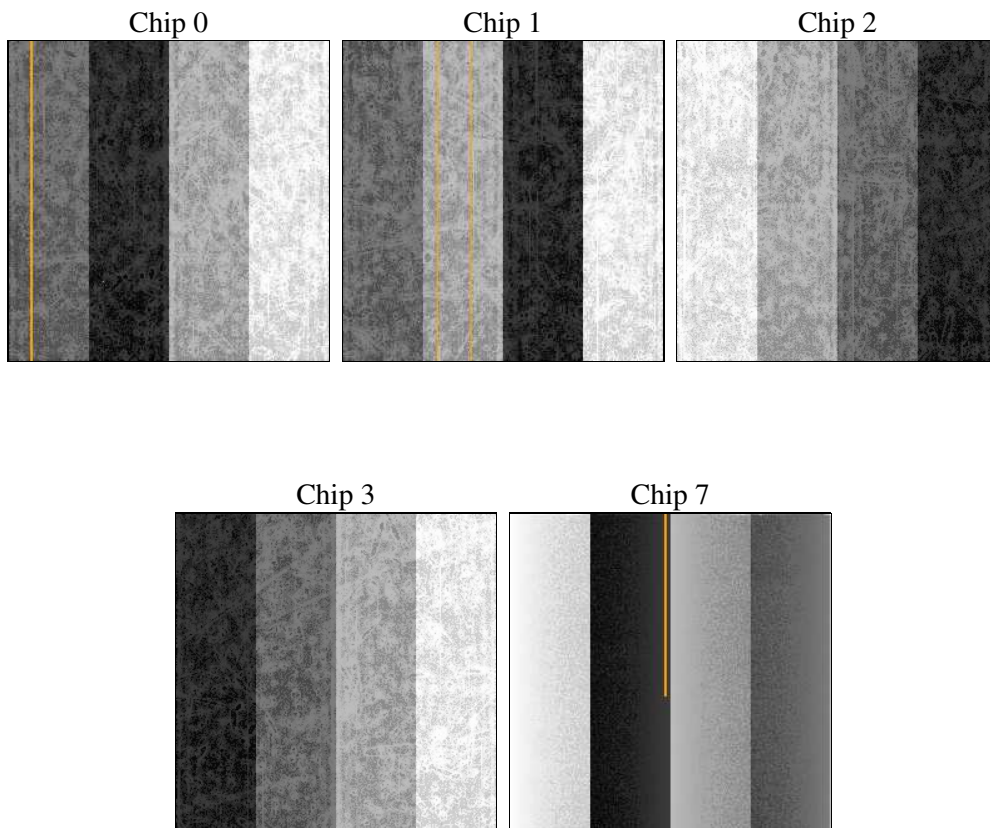
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	9893.7630944252	Sum of GTIs [s]
caldsver	4.9.3	 	ontime0	9893.6399744749	Sum of GTIs [s]
date	2020-10-24T17:50:39	Date and time of file creation	ontime1	9890.5400540829	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	9893.7220543623	Sum of GTIs [s]
			ontime3	9893.7630944252	Sum of GTIs [s]
			ontime7	9893.8041344881	Sum of GTIs [s]
			l1events	390115	Number of level 1 events

2.1.4 Events

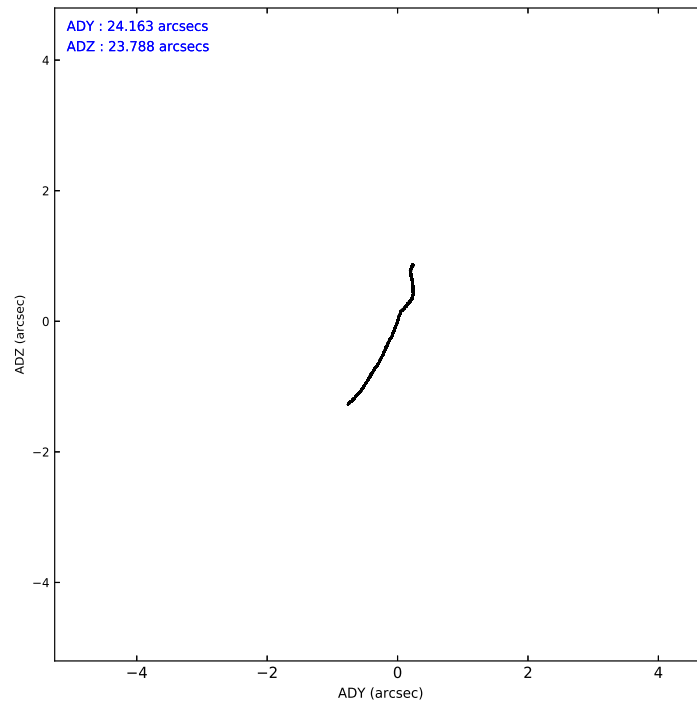
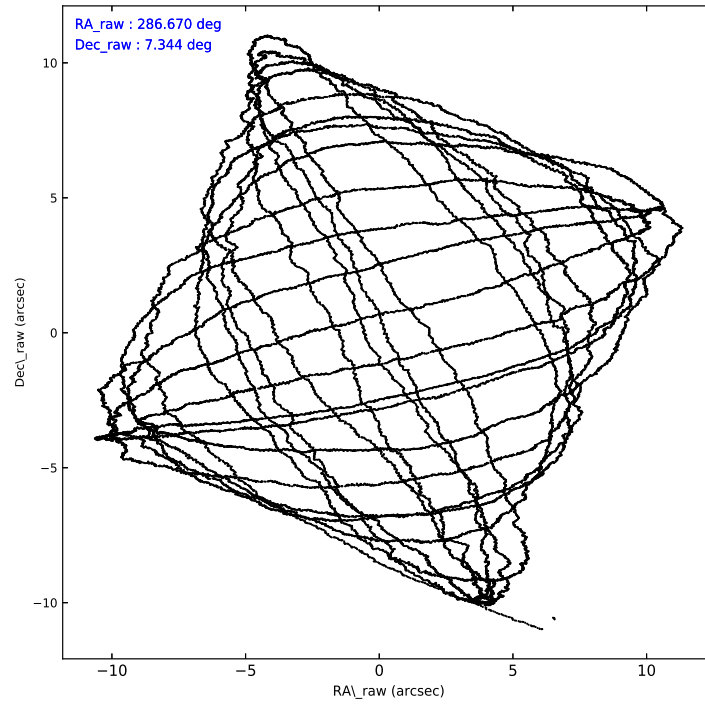
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	70779	70898	79648	74788	94002
rejected events	62433	61616	71831	66976	53185
rejected %	88%	86%	90%	89%	56%

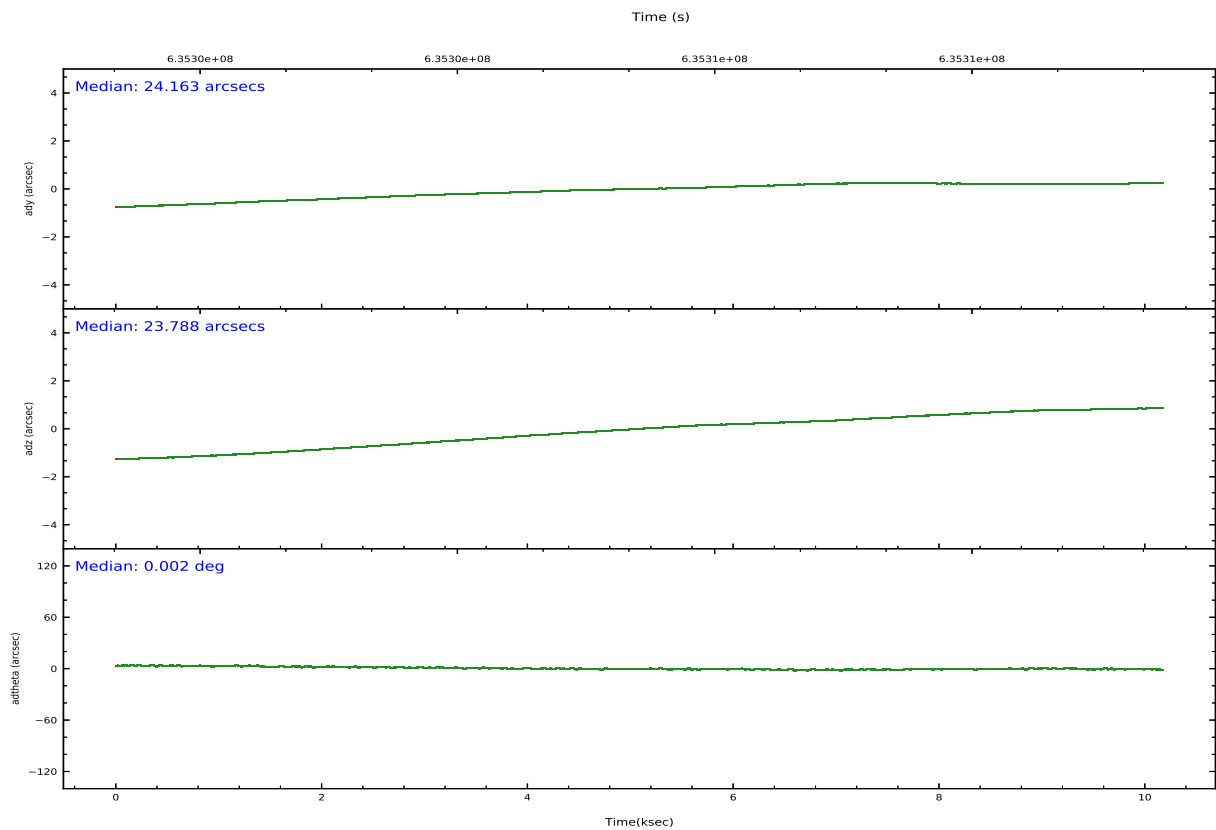
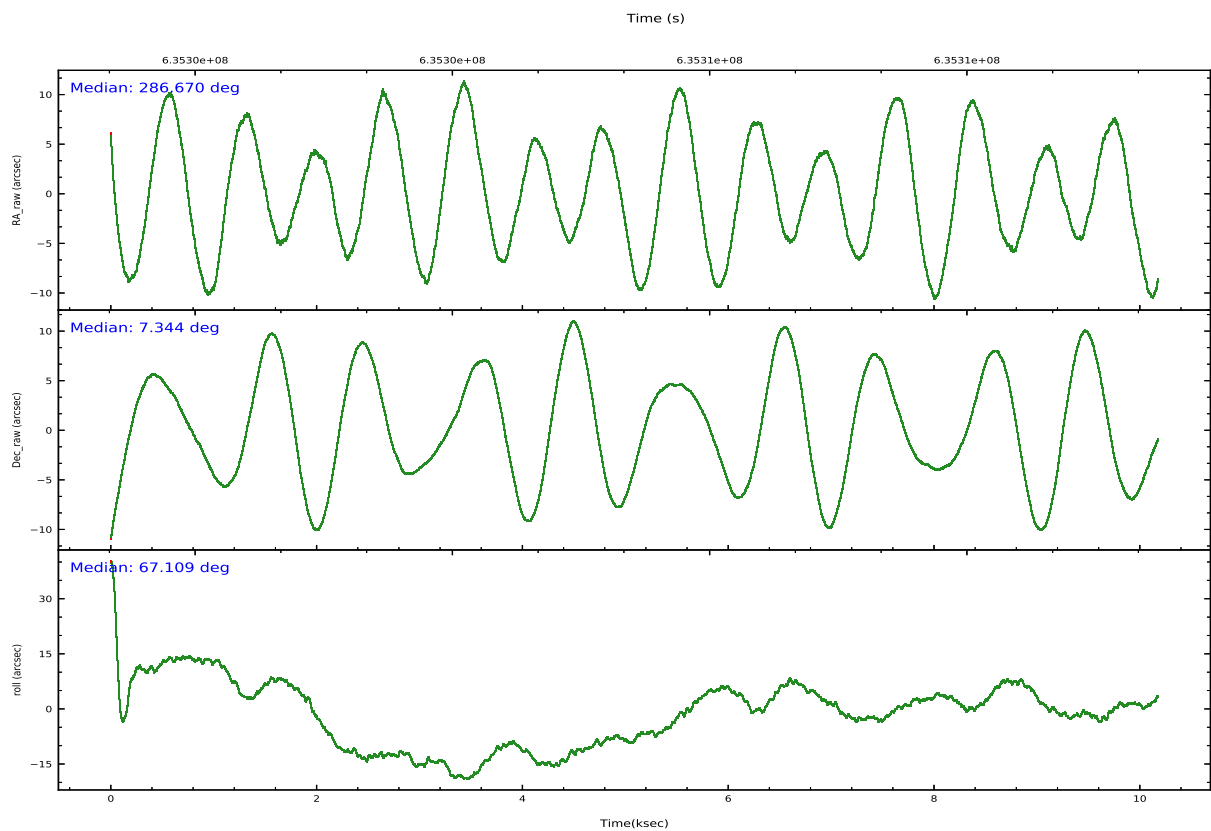
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
grade 0 events	3054	3079	2786	2836	3426
	4%	4%	3%	3%	3%
grade 1 events	47	34	35	49	122
	0%	0%	0%	0%	0%
grade 2 events	2078	2529	1968	1685	8509
	2%	3%	2%	2%	9%
grade 3 events	799	812	736	824	3299
	1%	1%	0%	1%	3%
grade 4 events	742	822	791	816	3149
	1%	1%	0%	1%	3%
grade 5 events	2995	3149	2849	3414	9187
	4%	4%	3%	4%	9%
grade 6 events	1678	2045	1537	1654	22443
	2%	2%	1%	2%	23%
grade 7 events	59386	58428	68946	63510	43867
	83%	82%	86%	84%	46%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-01237	ACIS-01237	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	286.674050	286.67406115901	CCD I2 on	Y	Y
[deg] Pointing Dec	7.317120	7.3354430834094	CCD I3 on	Y	Y
[deg] Pointing Roll	66.903515	67.108211540234	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	N	N
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O1	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	635301860.184000	635300819.28376	CCD S5 on	N	N
Observation start date	2018-02-18T00:43:11	2018-02-18T00:26:59	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	635311860.184000	635312916.84698	On-chip summing requested	N	N
Observation end date	2018-02-18T03:29:51	2018-02-18T03:48:36	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



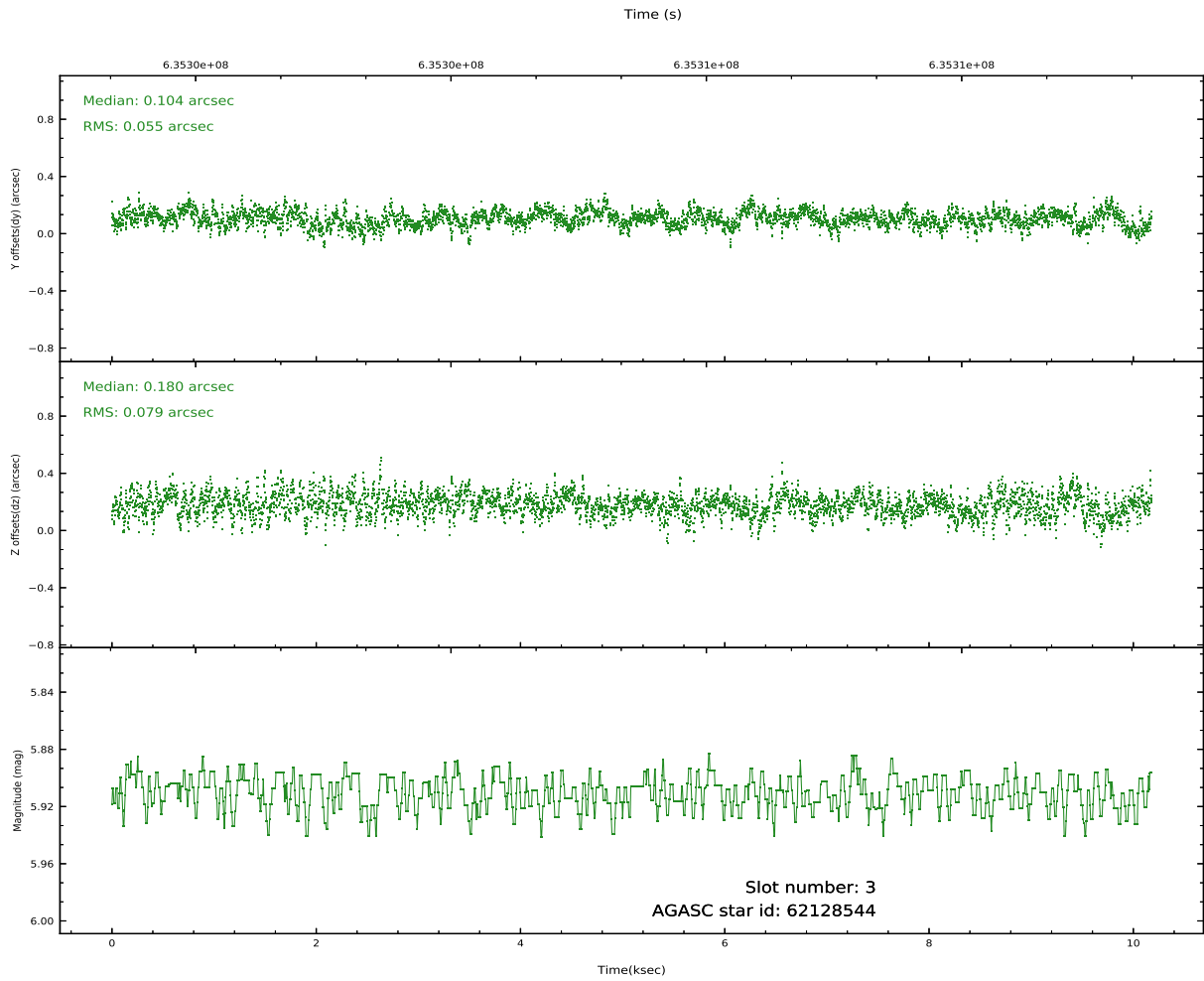
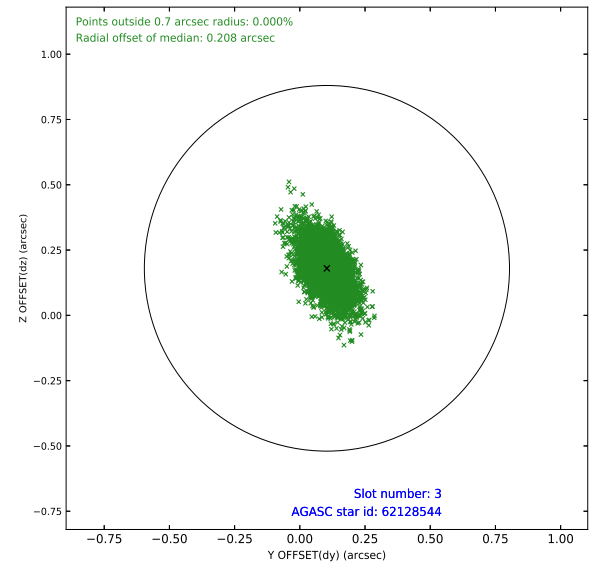
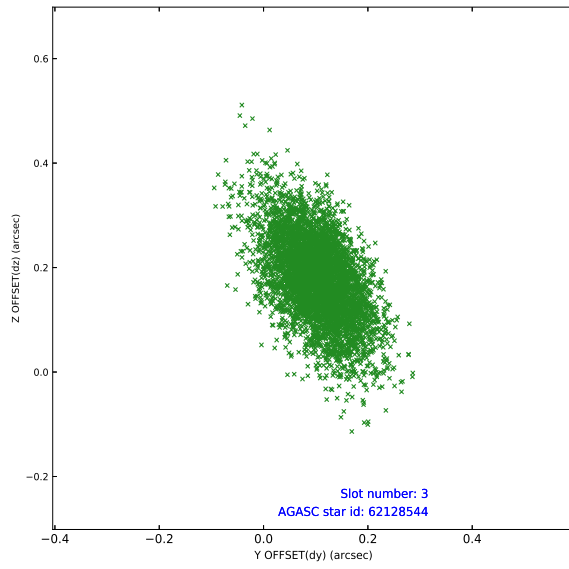


Slot Statistics

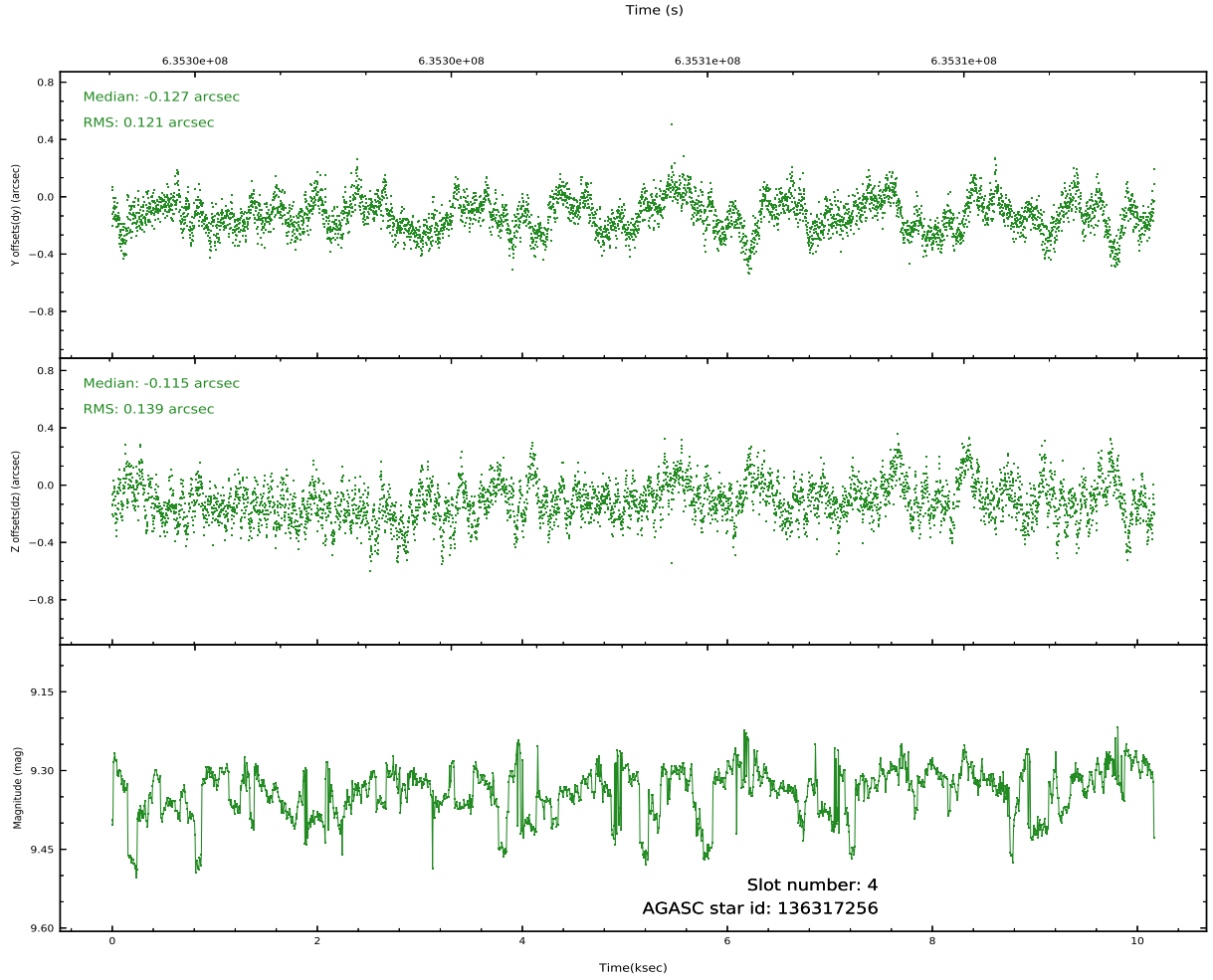
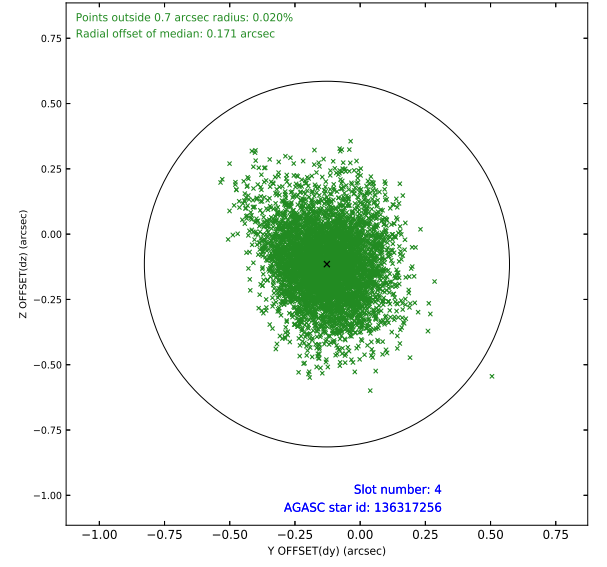
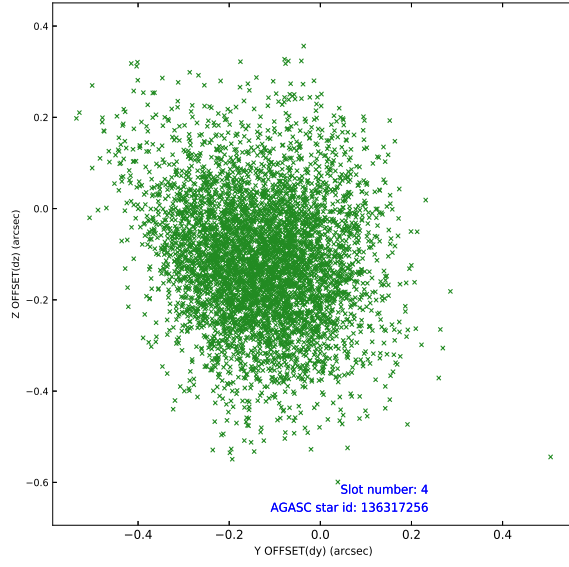
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.24	2483	1.000	0.215	-0.088	0.014	0.031	0.000000	0.000000	915.28	-847
1	FID		ACIS-I-5	7.22	2482	1.000	-0.312	0.198	0.010	0.017	0.000000	0.000000	-1832.93	1050
2	FID		ACIS-I-6	7.25	2482	1.000	0.005	-0.040	0.015	0.023	0.000000	0.000000	380.24	1694
3	GUIDE	used	62128544	5.91	4965	1.000	0.104	0.180	0.098	0.175	286.736928	7.151726	-458.95	-440
4	GUIDE	used	136317256	9.33	4944	1.000	-0.127	-0.115	0.193	0.329	286.656872	7.690932	1214.16	583
5	GUIDE	used	136321064	8.17	4896	1.000	-0.315	-0.220	0.130	0.221	286.410554	7.667399	790.33	1360
6	GUIDE	used	62131288	8.89	4962	1.000	0.060	0.032	0.164	0.286	286.511515	7.349040	-121.70	579
7	GUIDE	used	62134776	9.09	4960	1.000	0.281	0.114	0.178	0.284	286.572119	6.645054	-2368.03	-613

2.4 Star Slots

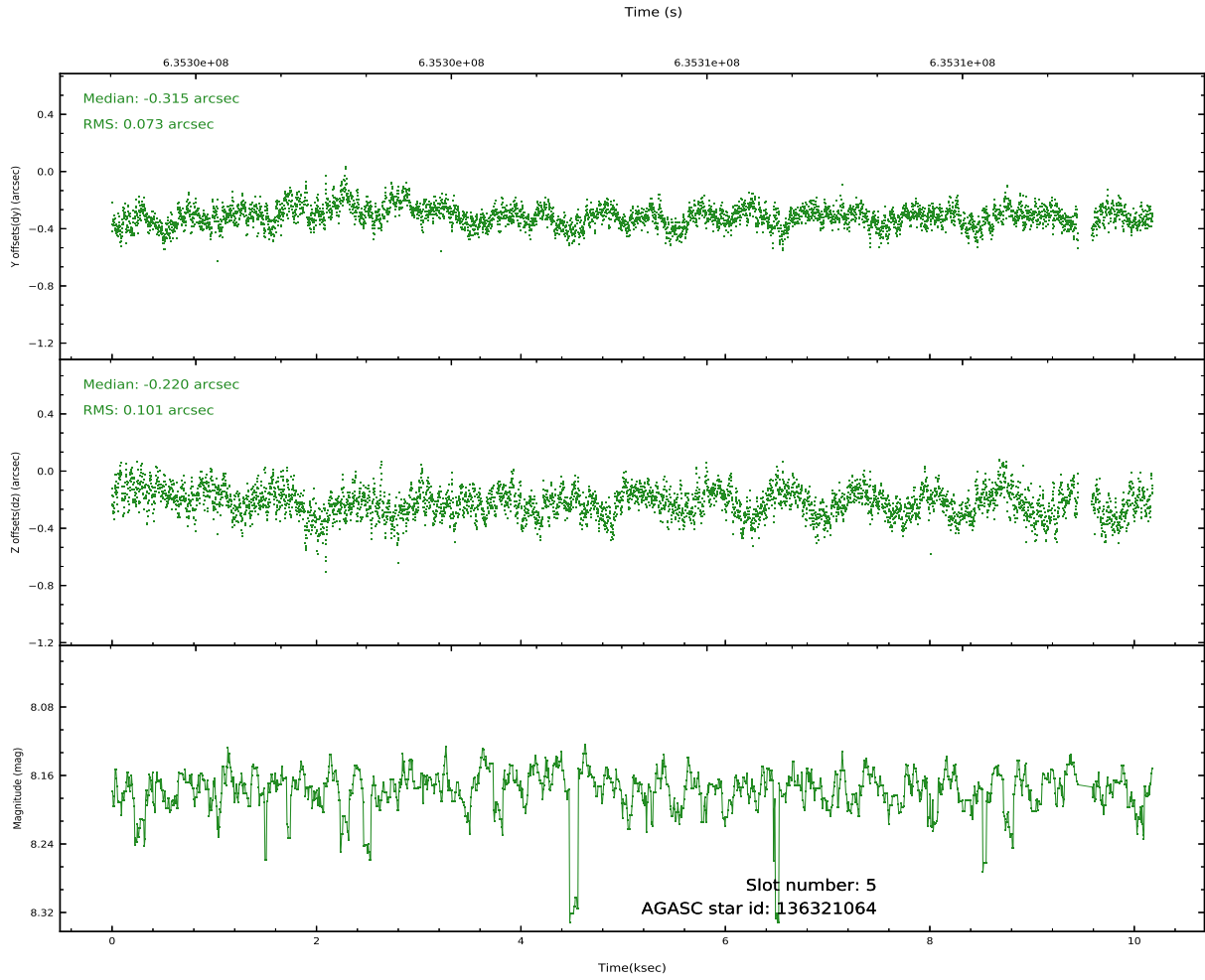
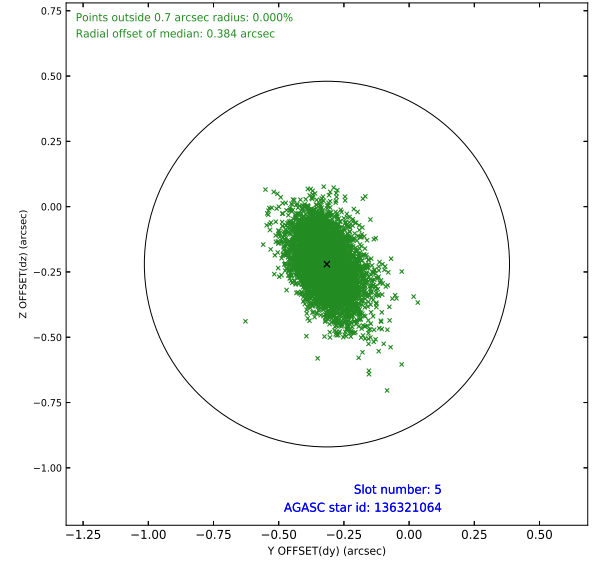
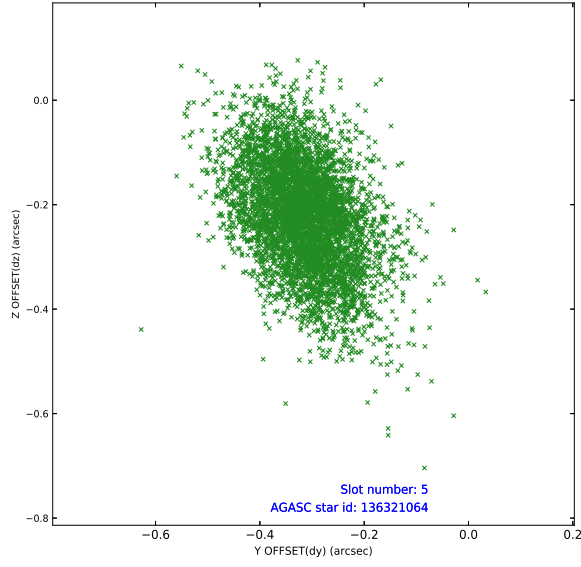
2.4.1 Slot 3



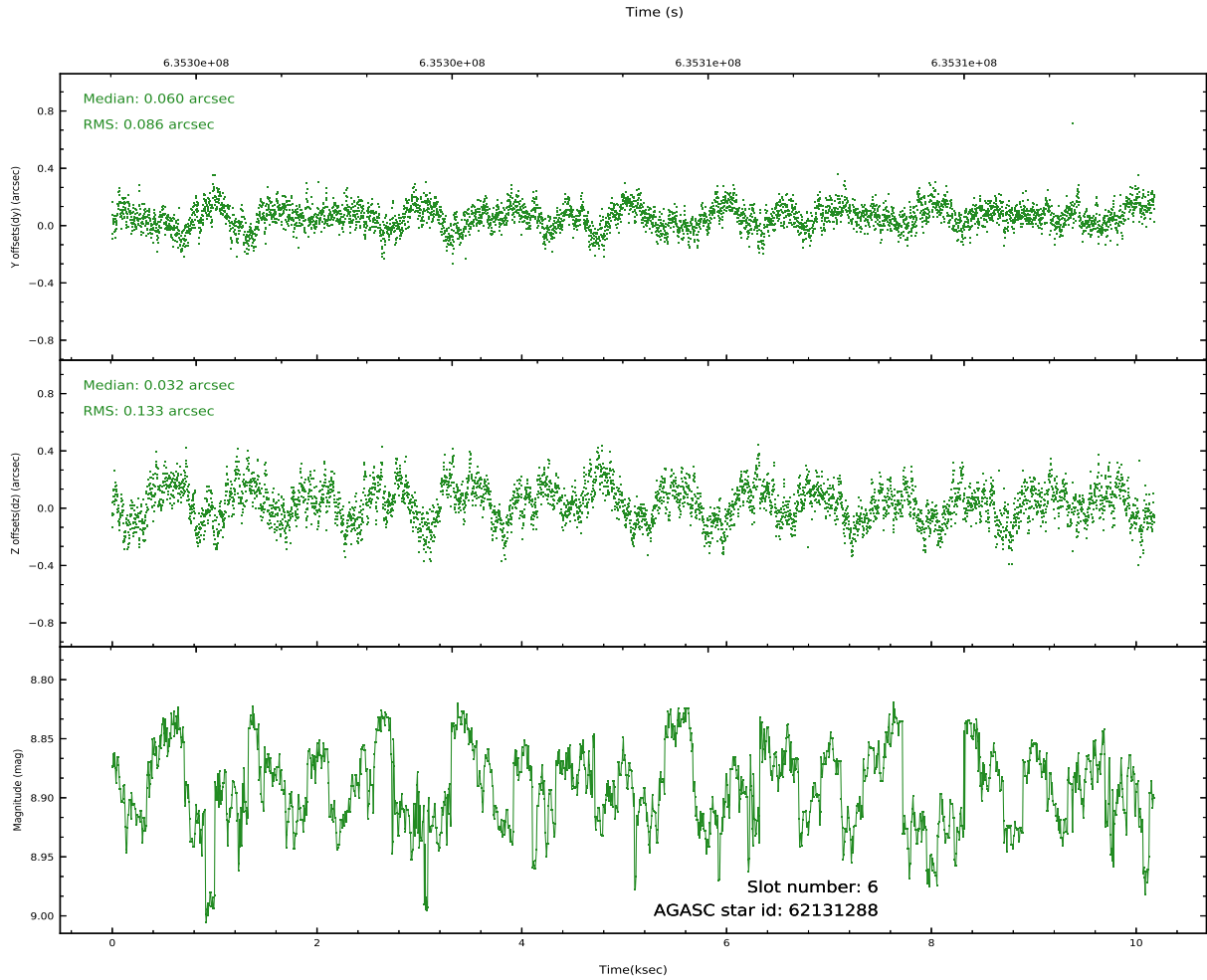
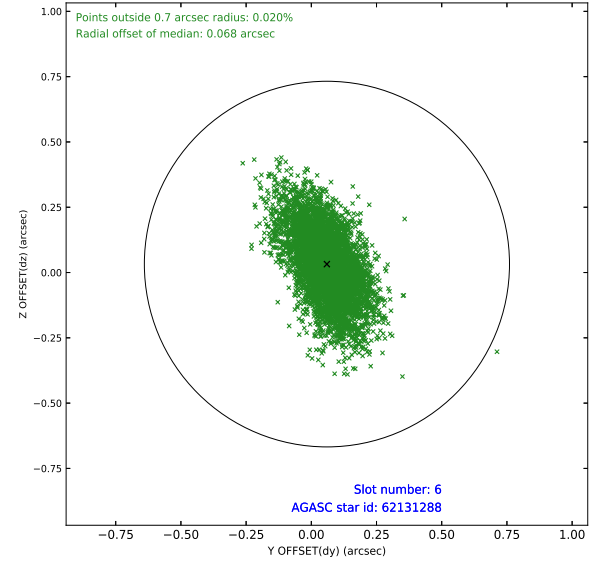
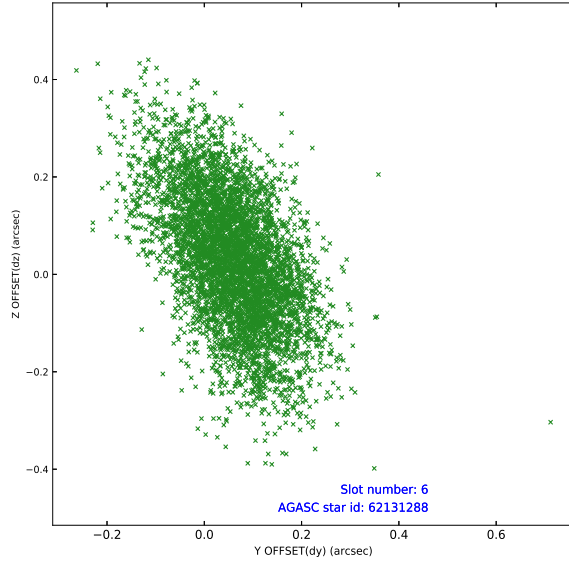
2.4.2 Slot 4



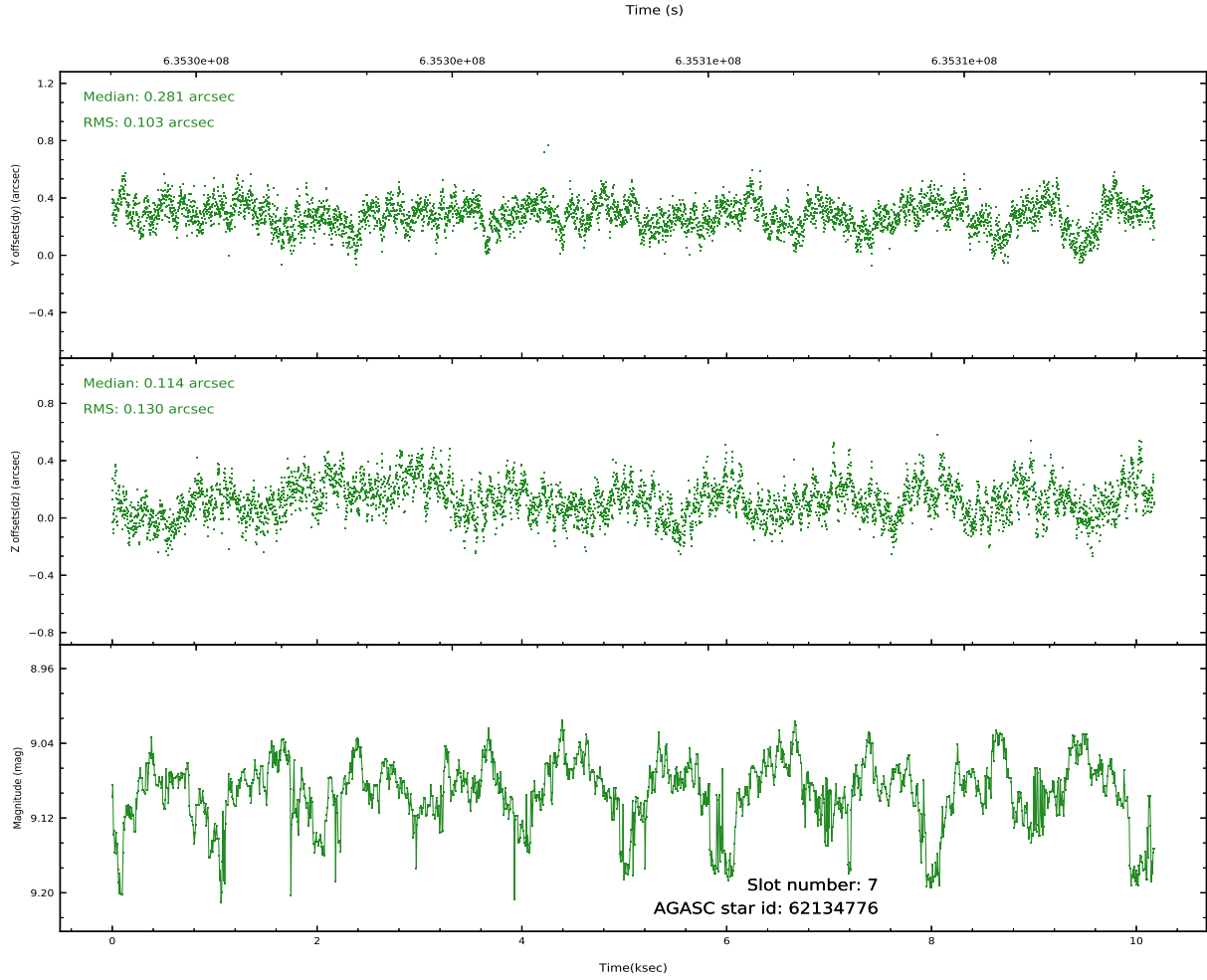
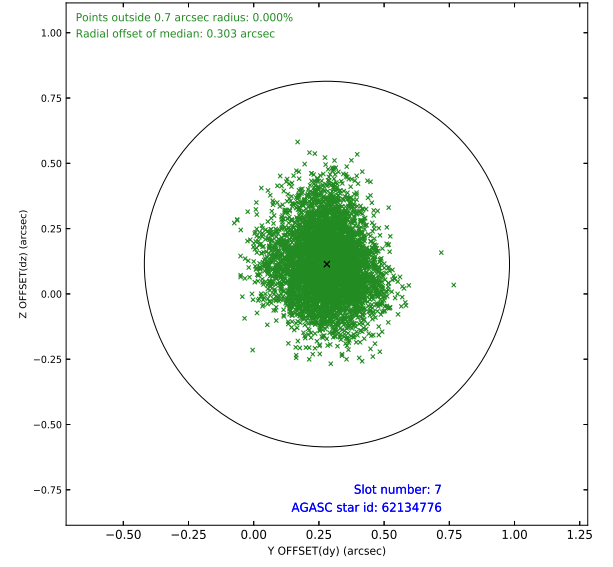
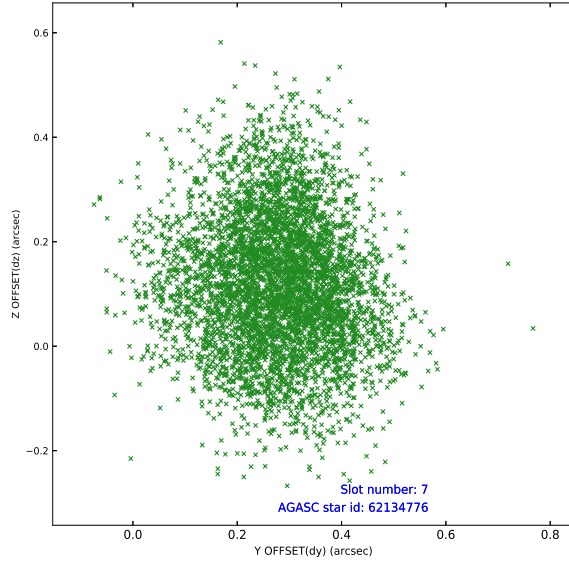
2.4.3 Slot 5



2.4.4 Slot 6

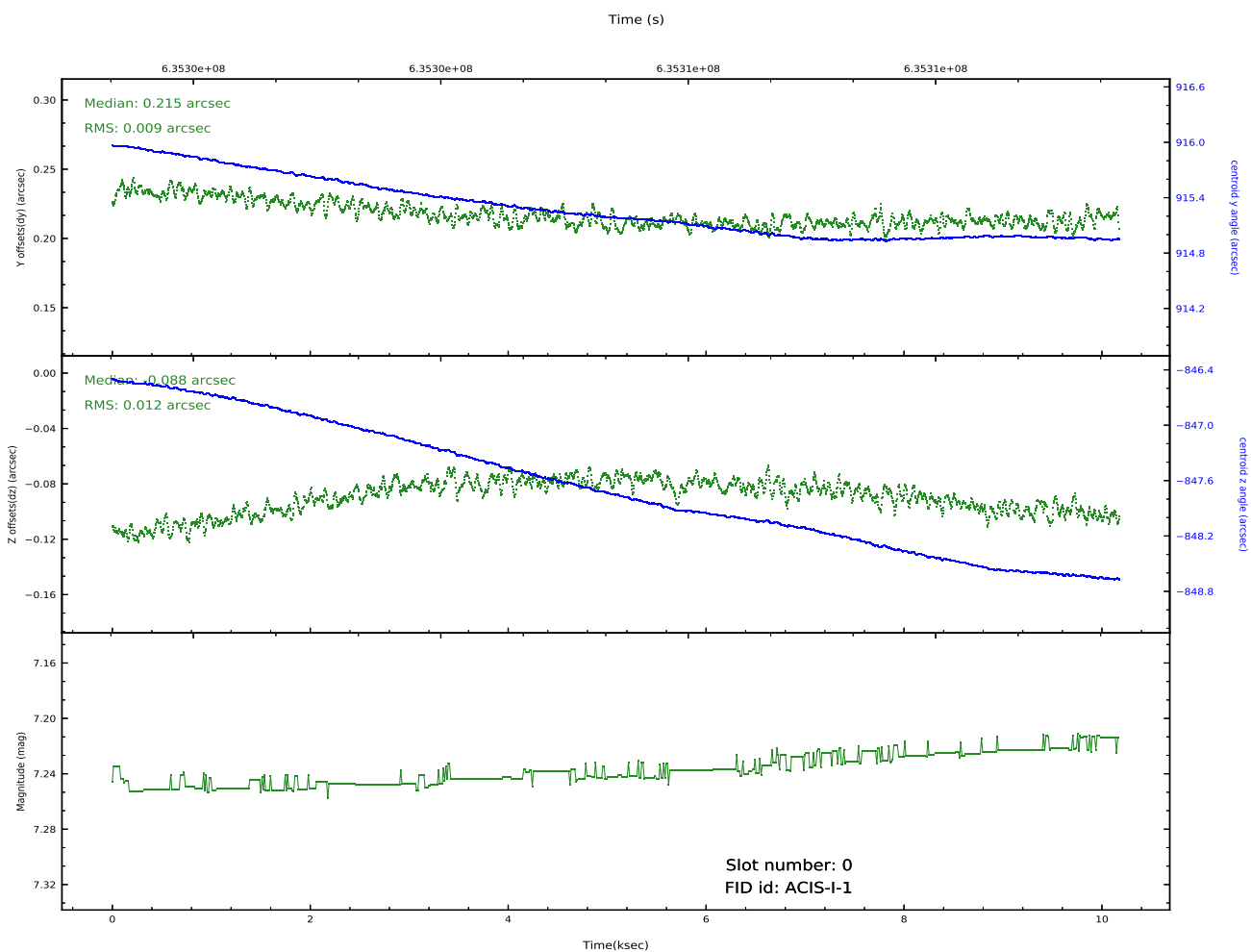
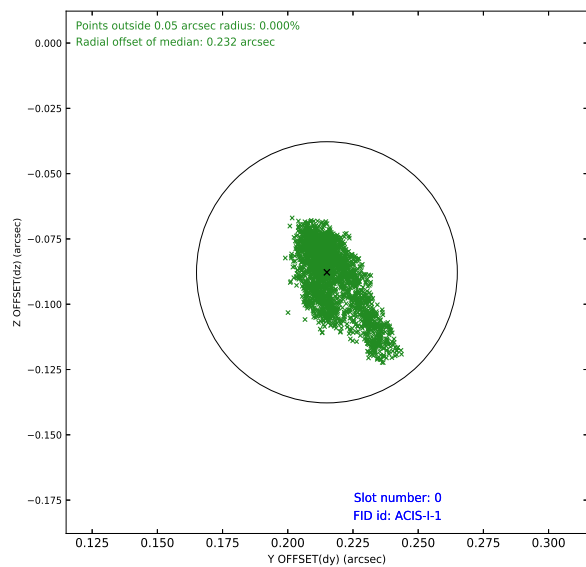
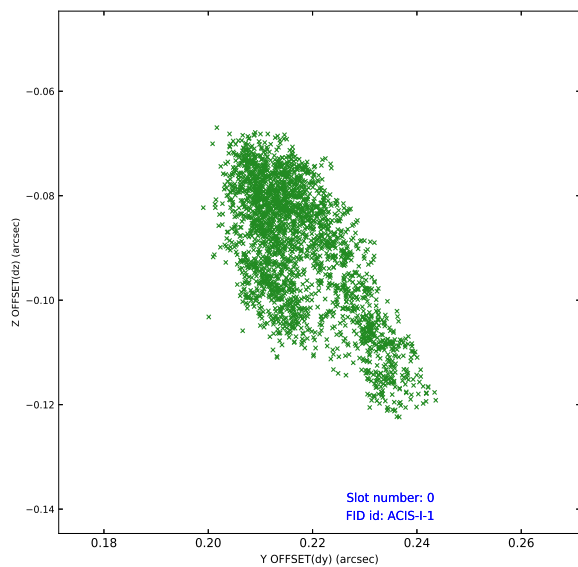


2.4.5 Slot 7

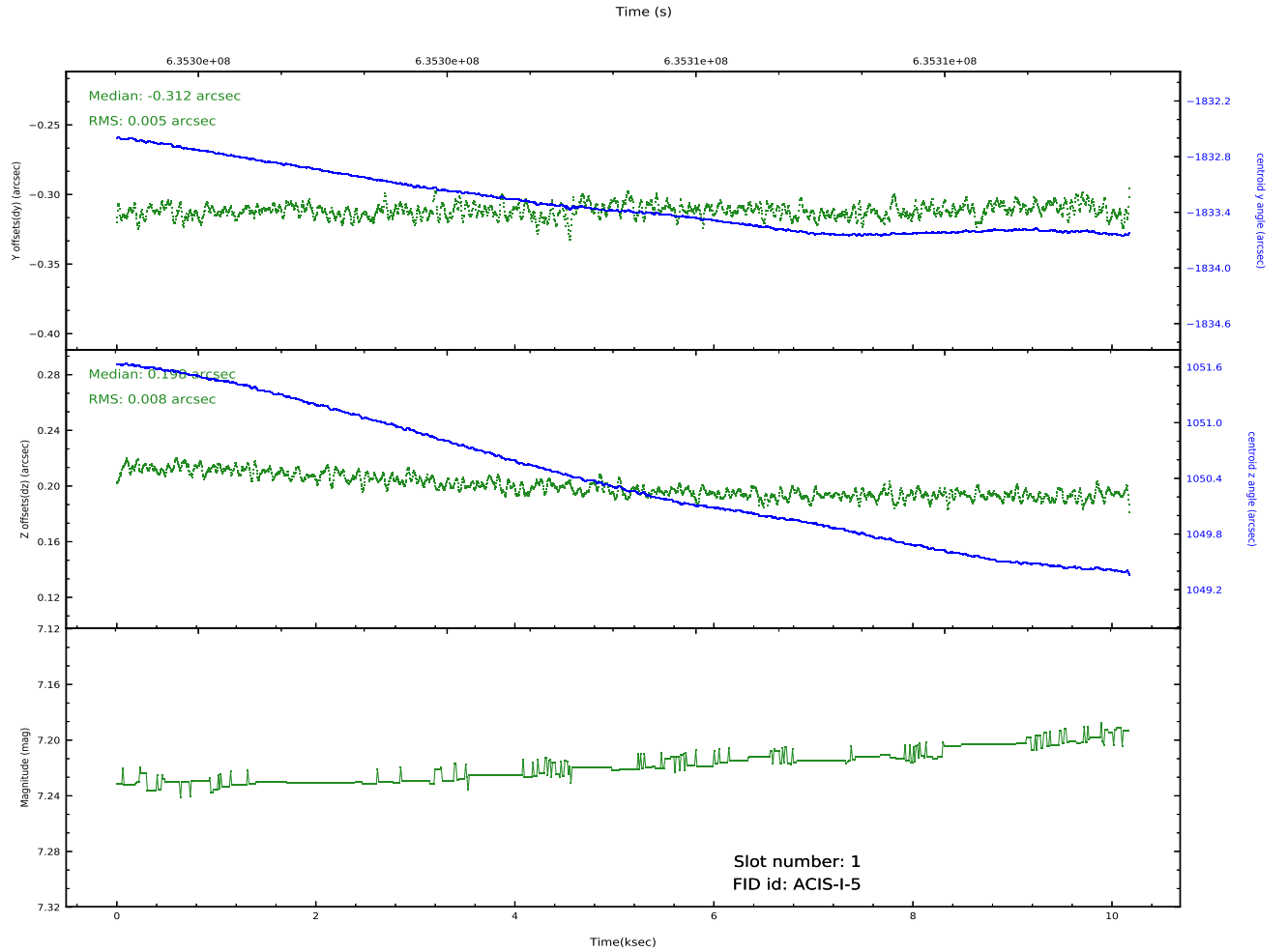
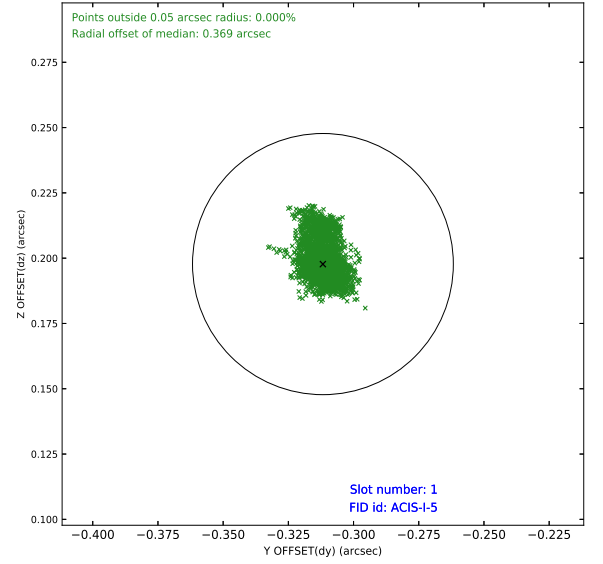
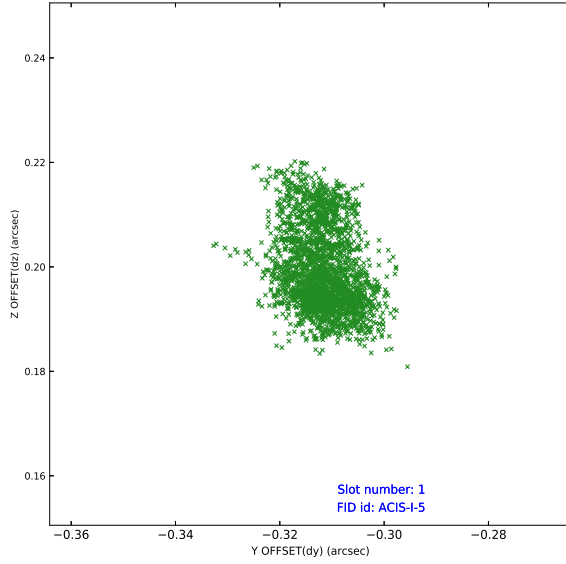


2.5 FID Slots

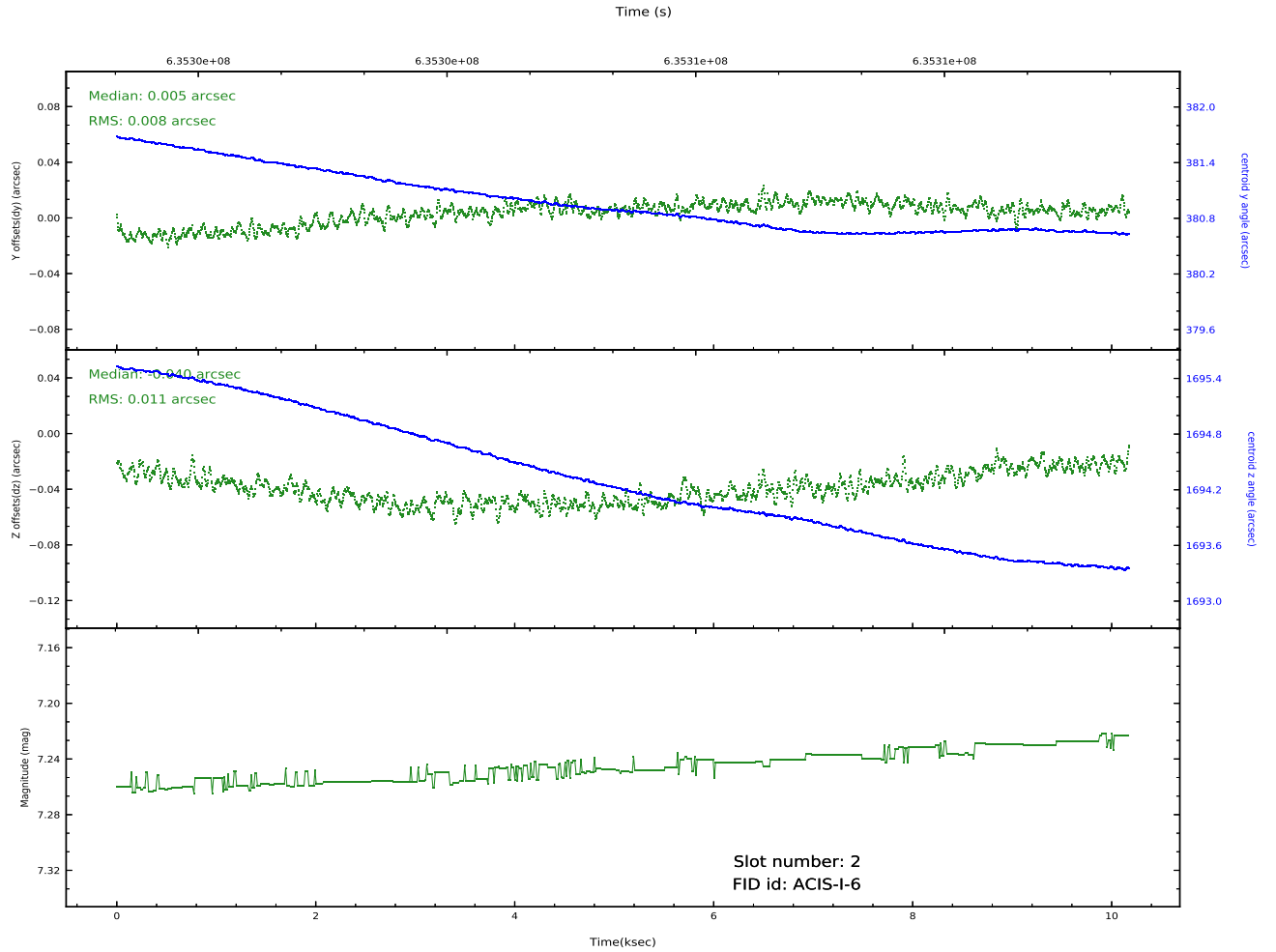
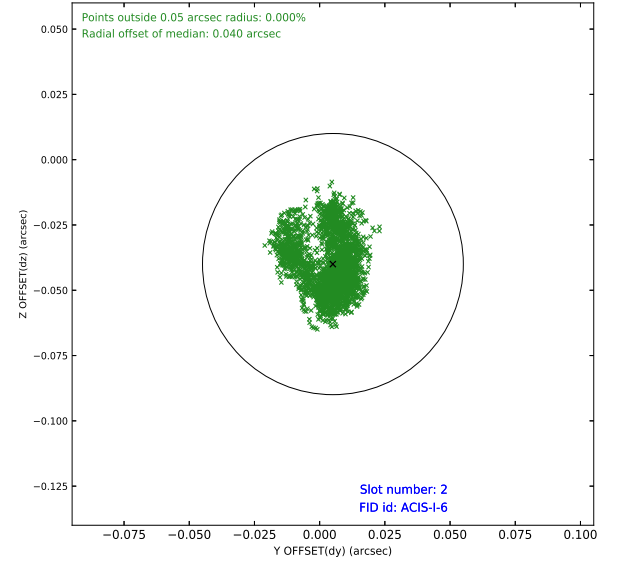
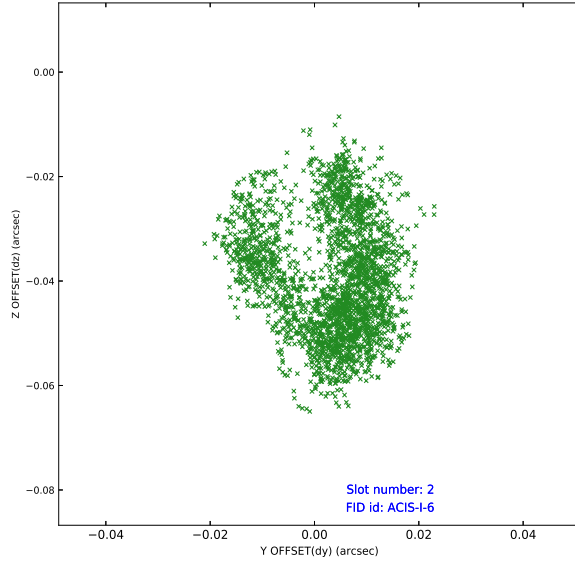
2.5.1 Slot 0



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)	2020.10.26
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	9.8937630968094

A.2 Comments