

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5691 - L2 Version 4
Chandra X-Ray Center

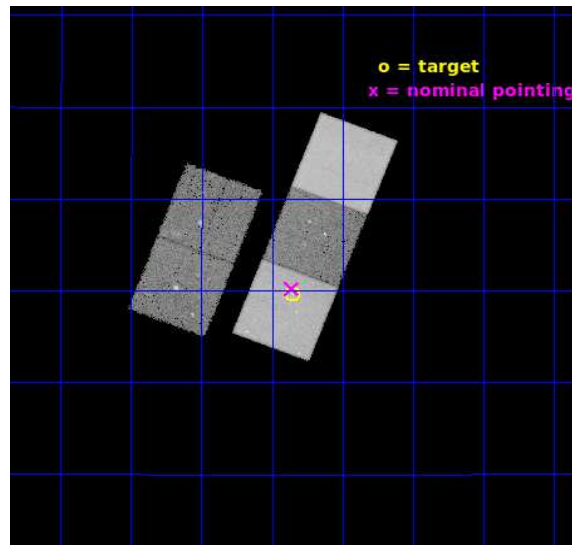
L2 Processing Date : Oct 8 2020

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1 Front

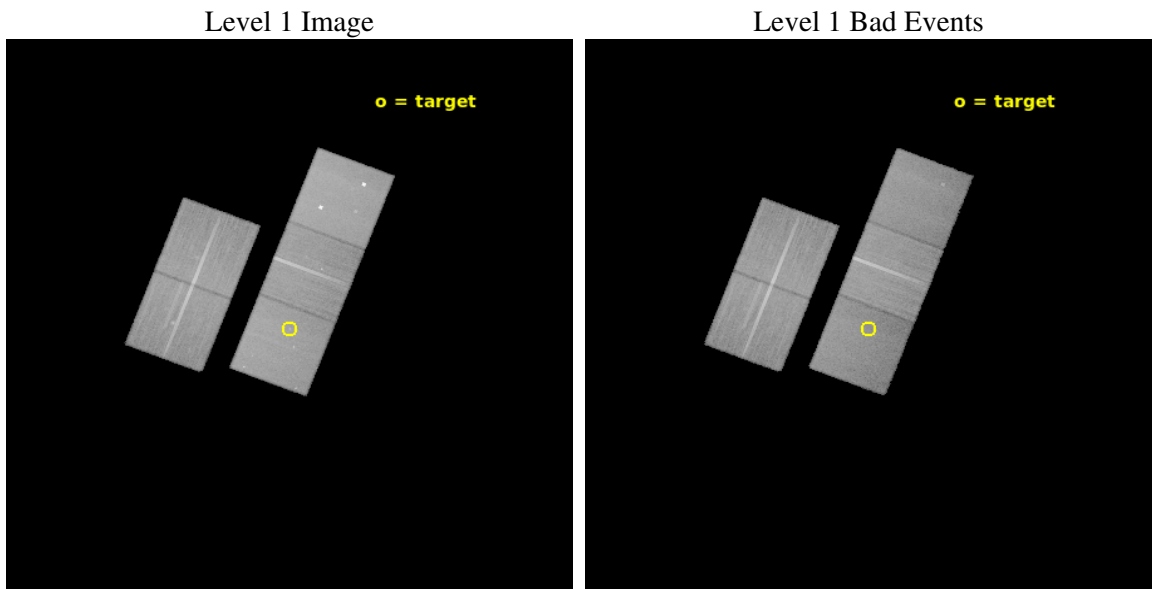
seq_num	701114	Sequence number
obs_id	5691	Observation id
title	The X-ray Jet of the X-ray faint supermassive nuclear black hole in NGC 821	Proposal title
observer	Giuseppina Fabbiano	Principal investigator
object	NGC821	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	32.0875	Observer's specified target RA [deg]
dec_targ	10.99475	Observer's specified target Dec [deg]
ra_nom	32.08957617829	Nominal RA [deg]
dec_nom	11.003561810696	Nominal Dec [deg]
roll_nom	111.06018725961	Nominal Roll [deg]
revision	4	Processing version of data
ontime	40123.299922824	Sum of GTIs [s]
livetime	39599.059470989	Livetime [s]
ontime2	40117.017962396	Sum of GTIs [s]
ontime3	40120.158952564	Sum of GTIs [s]
ontime5	40123.299922824	Sum of GTIs [s]
ontime6	40123.299922824	Sum of GTIs [s]
ontime7	40123.299922824	Sum of GTIs [s]
l2events	356009	Number of level 2 events



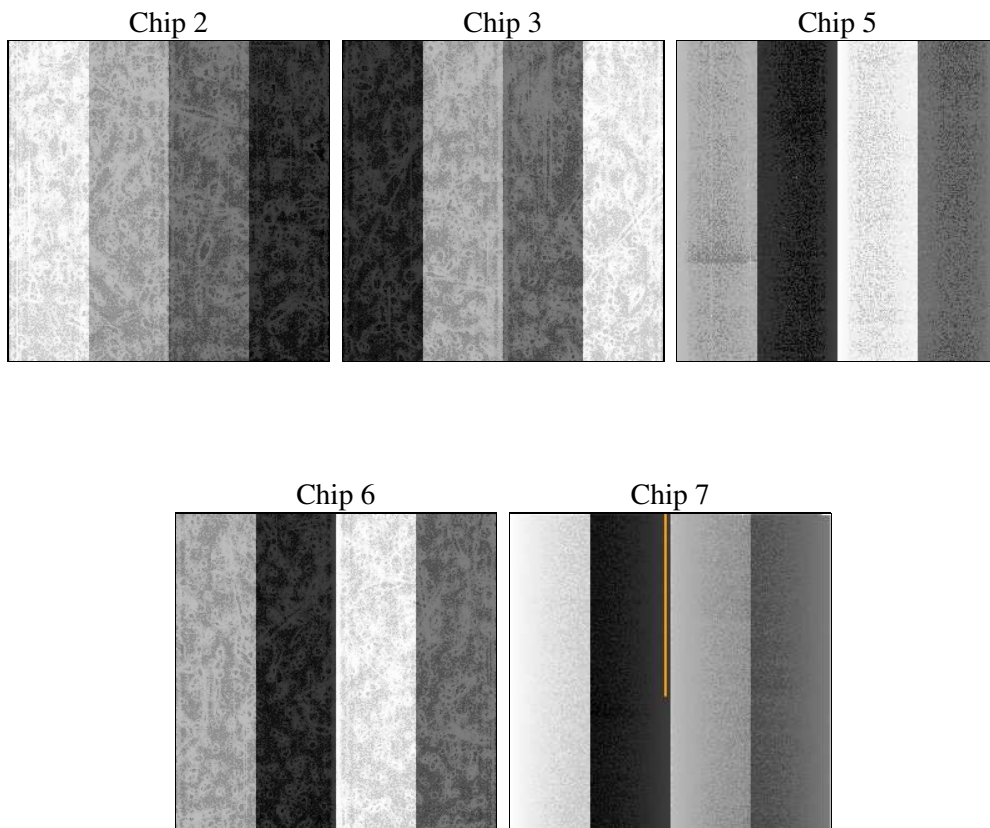
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	40000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	40123.299922824	Sum of GTIs [s]
caldbver	4.9.2	 	ontime2	40117.017962396	Sum of GTIs [s]
date	2020-10-09T00:50:39	Date and time of file creation	ontime3	40120.158952564	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	40123.299922824	Sum of GTIs [s]
			ontime6	40123.299922824	Sum of GTIs [s]
			ontime7	40123.299922824	Sum of GTIs [s]
			l1events	1505618	Number of level 1 events

2.1.4 Events

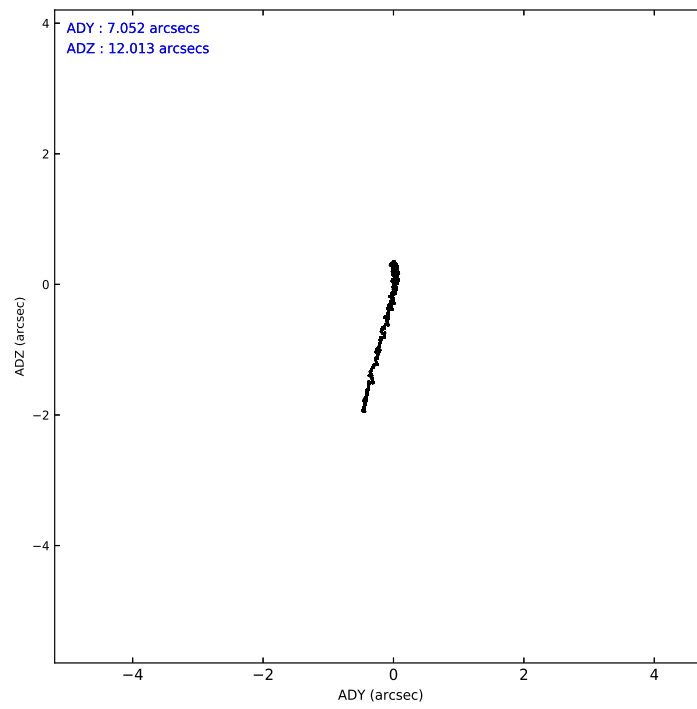
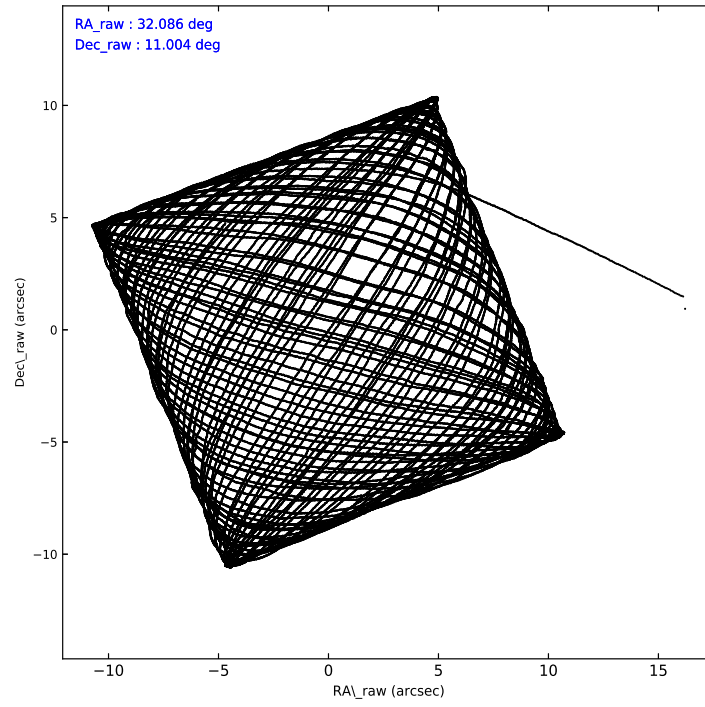
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
level 1 events	280364	265980	380505	277931	300838
rejected events	254732	241230	193678	250506	169035
rejected %	90%	90%	50%	90%	56%

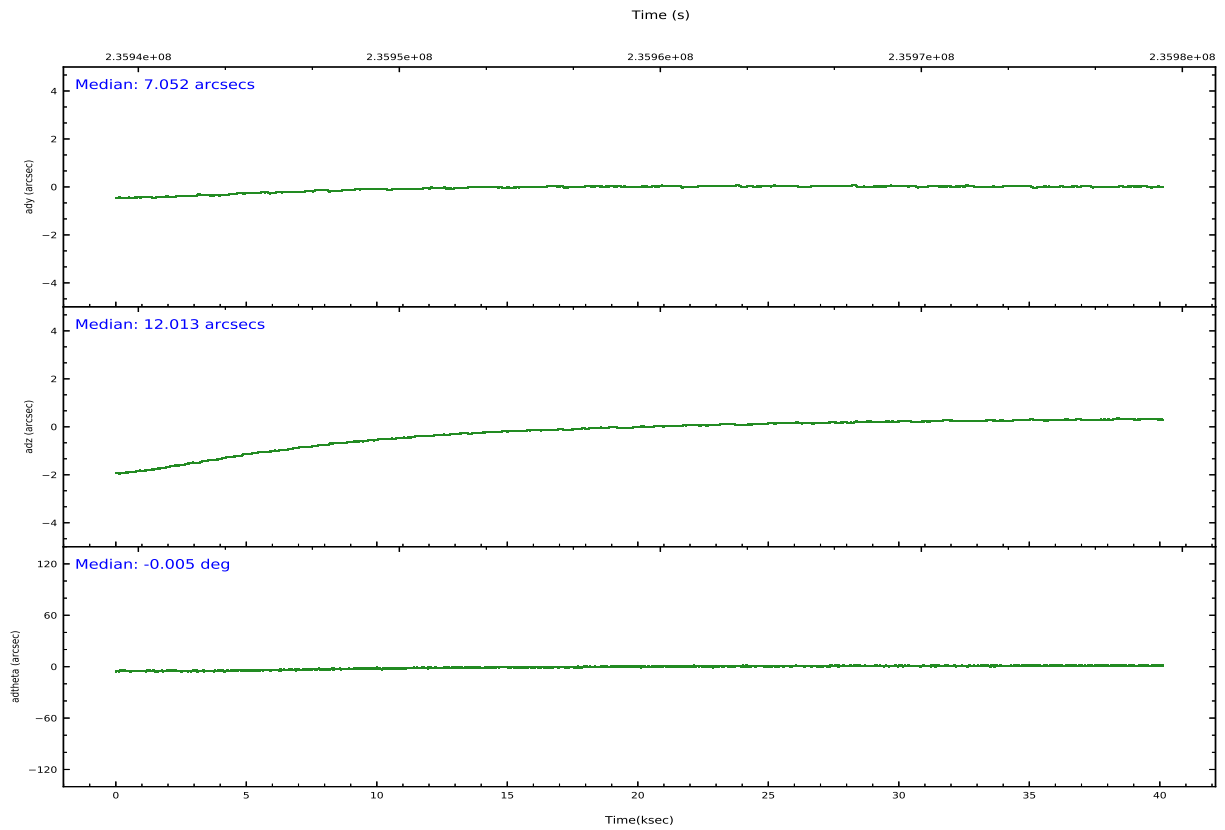
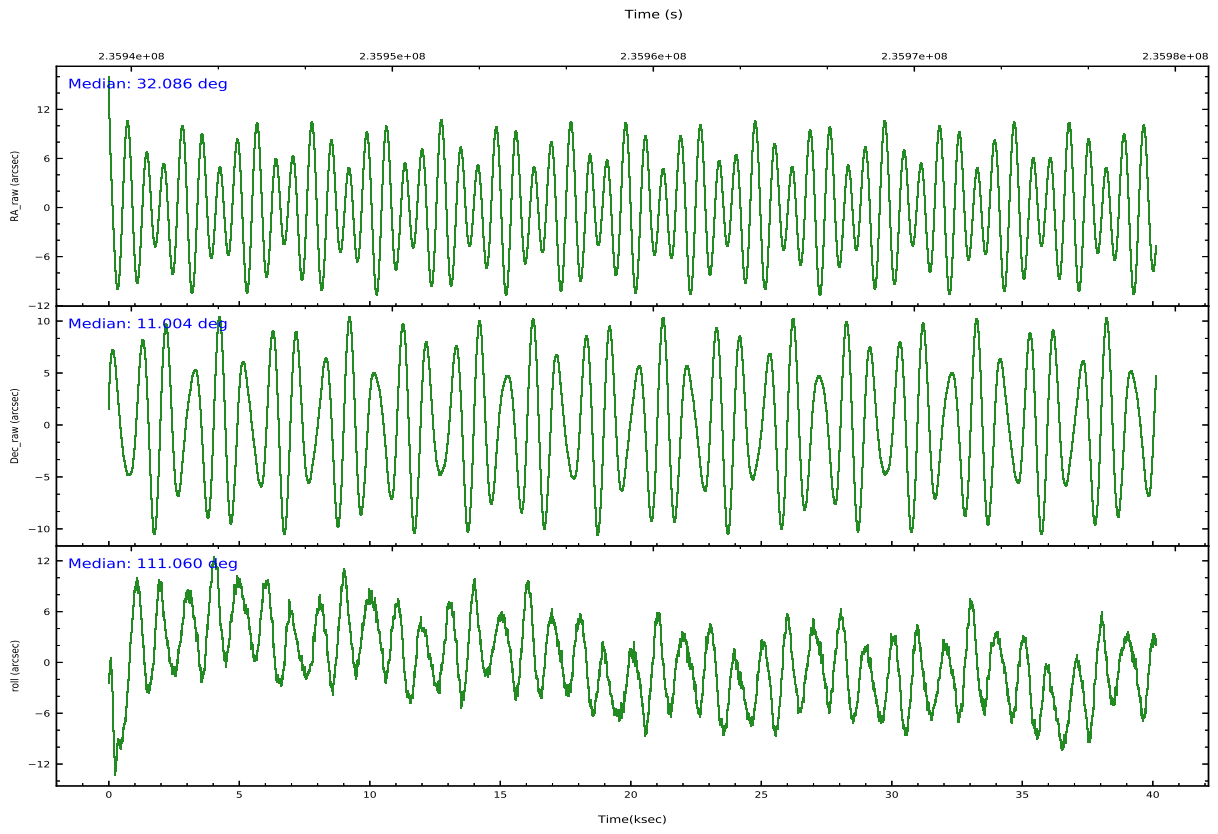
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
grade 0 events	9601	9202	23766	9974	12141
	3%	3%	6%	3%	4%
grade 1 events	112	131	770	126	244
	0%	0%	0%	0%	0%
grade 2 events	6240	5469	58708	6130	27540
	2%	2%	15%	2%	9%
grade 3 events	2895	2993	8010	3120	12791
	1%	1%	2%	1%	4%
grade 4 events	2933	2914	7519	3023	12736
	1%	1%	1%	1%	4%
grade 5 events	8812	10663	29805	10932	31857
	3%	4%	7%	3%	10%
grade 6 events	4808	4980	94777	6085	70684
	1%	1%	24%	2%	23%
grade 7 events	244963	229628	157150	238541	132845
	87%	86%	41%	85%	44%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-23567	ACIS-23567	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	32.107433	32.08957617829	Subarray requested	NONE	NONE
[deg] Pointing Dec	10.987414	11.003561810696	Alternating exposures requested	N	N
[deg] Pointing Roll	110.896198	111.06018725961	[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	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	235939263.184000	235937653.93087			
Observation start date	2005-06-23T18:39:59	2005-06-23T18:14:13			
[s] Observation end time (MET)	235979263.184000	235980352.87032			
Observation end date	2005-06-24T05:46:39	2005-06-24T06:05:52			
Read mode	TIMED	TIMED			

2.3 Aspect





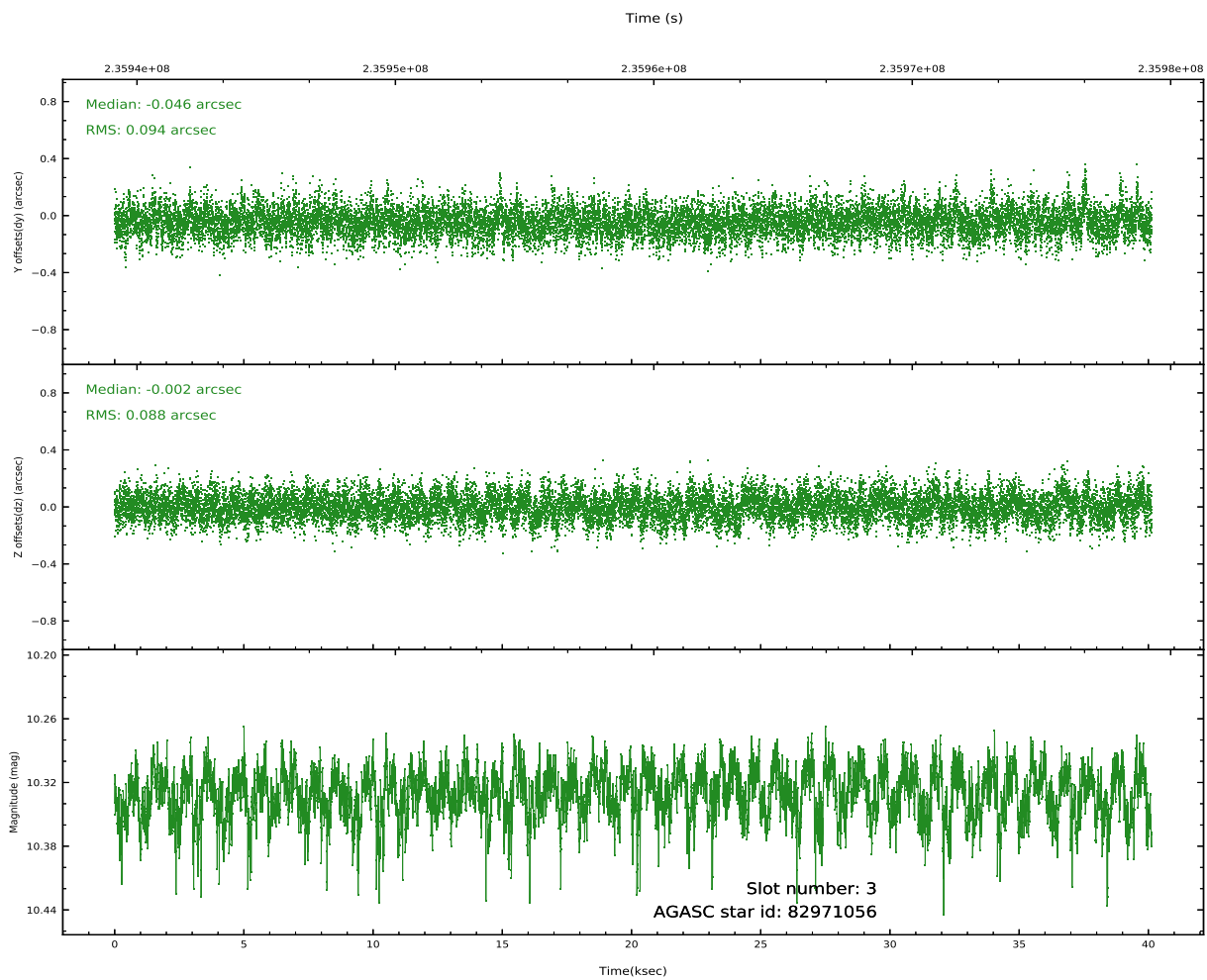
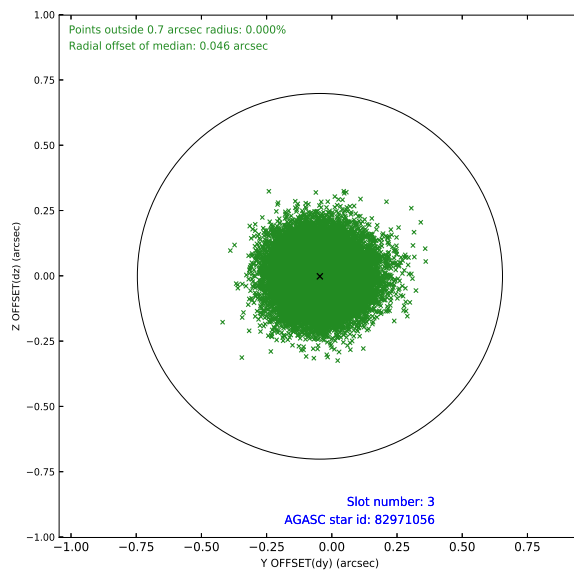
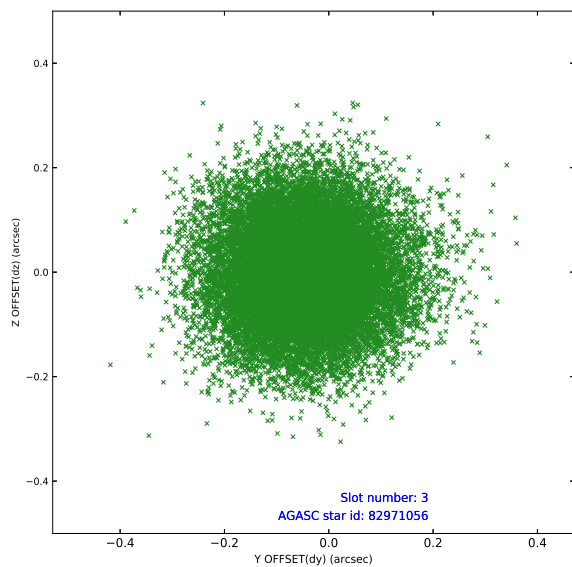
Slot Statistics

slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-1	7.18	9788	1.000	0.030	-0.117	0.017	0.053	0.000000	0.000000	936.31	-1728
1	FID		ACIS-S-4	7.20	9787	1.000	0.095	0.071	0.016	0.029	0.000000	0.000000	2153.80	175
2	FID		ACIS-S-5	7.23	9788	1.000	-0.149	0.059	0.009	0.031	0.000000	0.000000	-1812.71	169
3	GUIDE	used	82971056	10.33	19548	1.000	-0.046	-0.002	0.137	0.223	31.381677	11.249277	1797.76	2056
4	GUIDE	used	82972936	9.47	19564	1.000	0.012	-0.095	0.108	0.166	31.880349	11.323150	1415.58	317
5	GUIDE	used	82976088	10.29	19512	1.000	0.139	-0.170	0.223	0.351	31.548572	10.635312	-476.98	2298
6	GUIDE	used	82976744	9.50	19564	1.000	0.121	0.057	0.105	0.168	32.095784	10.602457	-1279.67	533
7	GUIDE	used	82974960	9.84	19557	1.000	-0.248	0.213	0.154	0.249	31.911636	11.621581	2379.14	-168

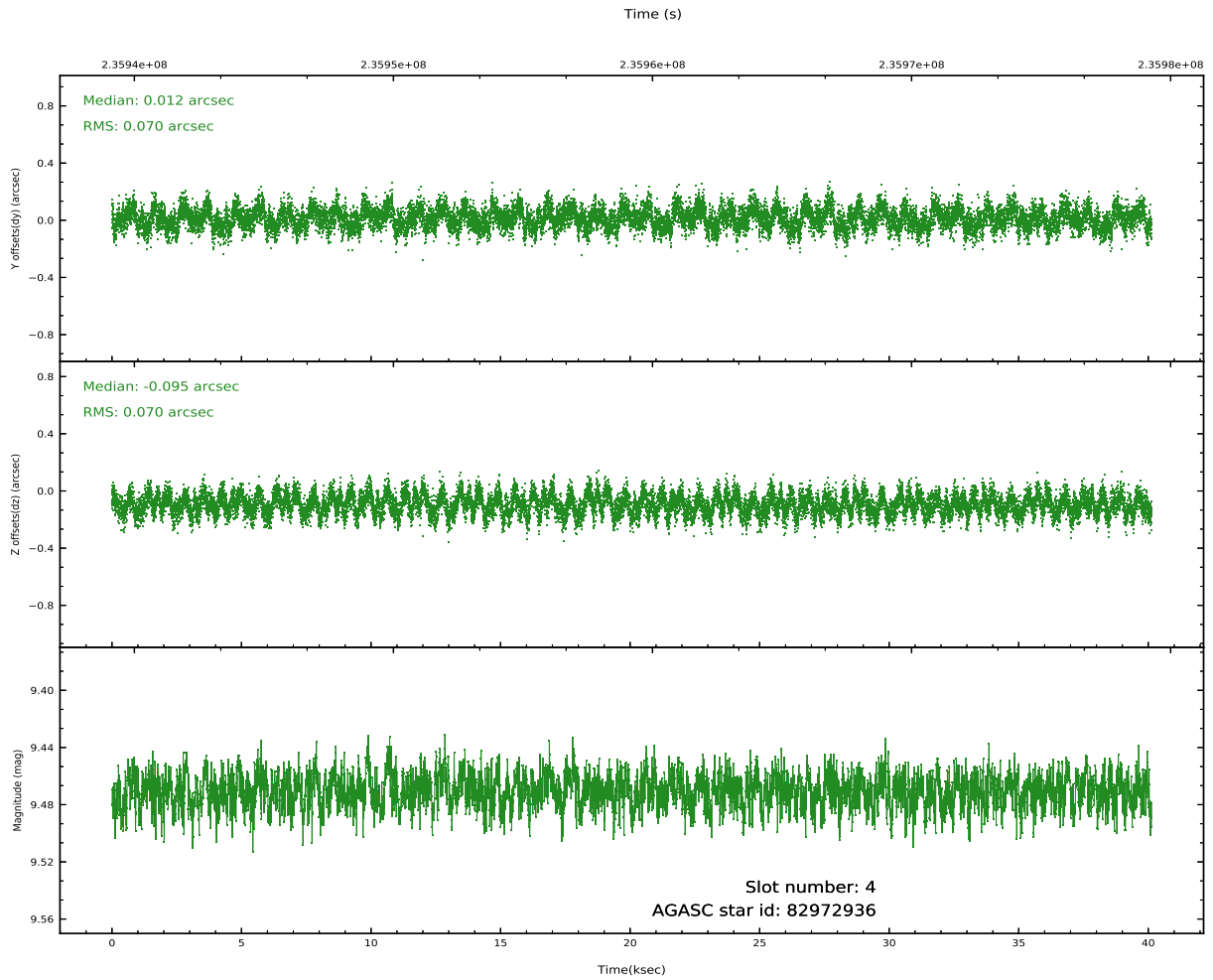
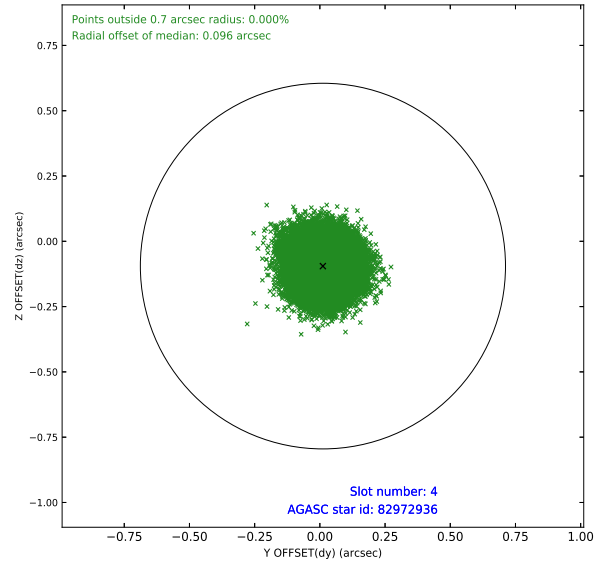
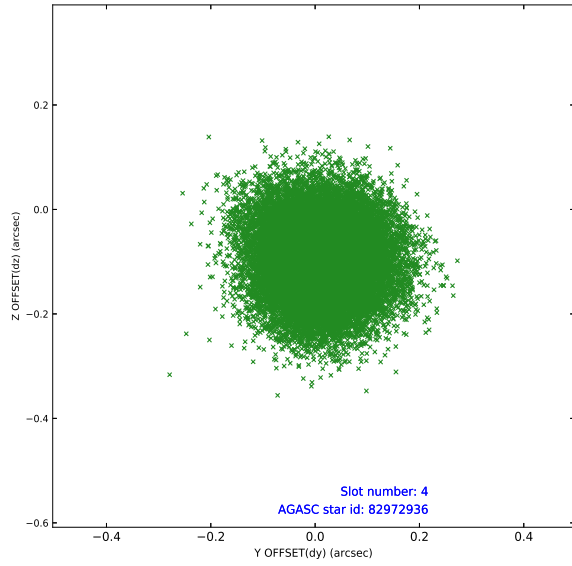
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2.4 Star Slots

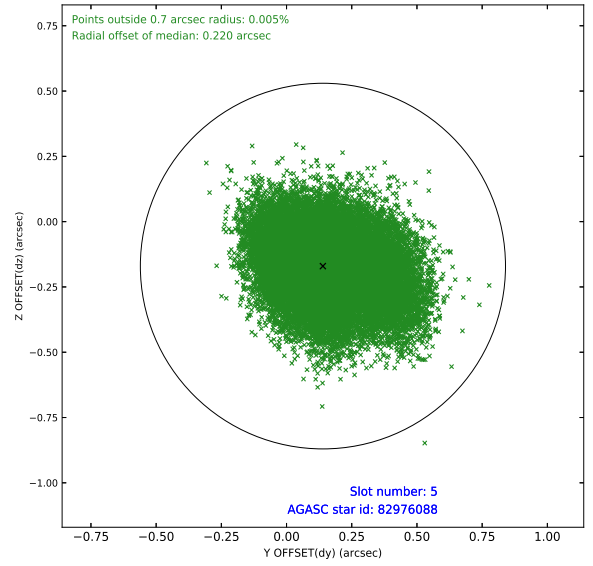
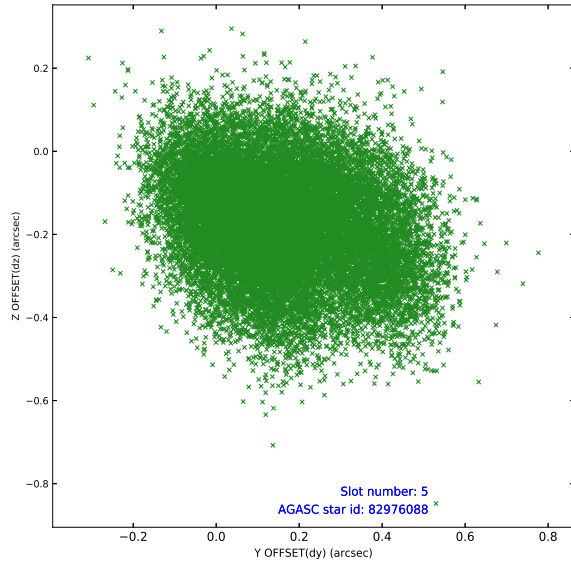
2.4.1 Slot 3



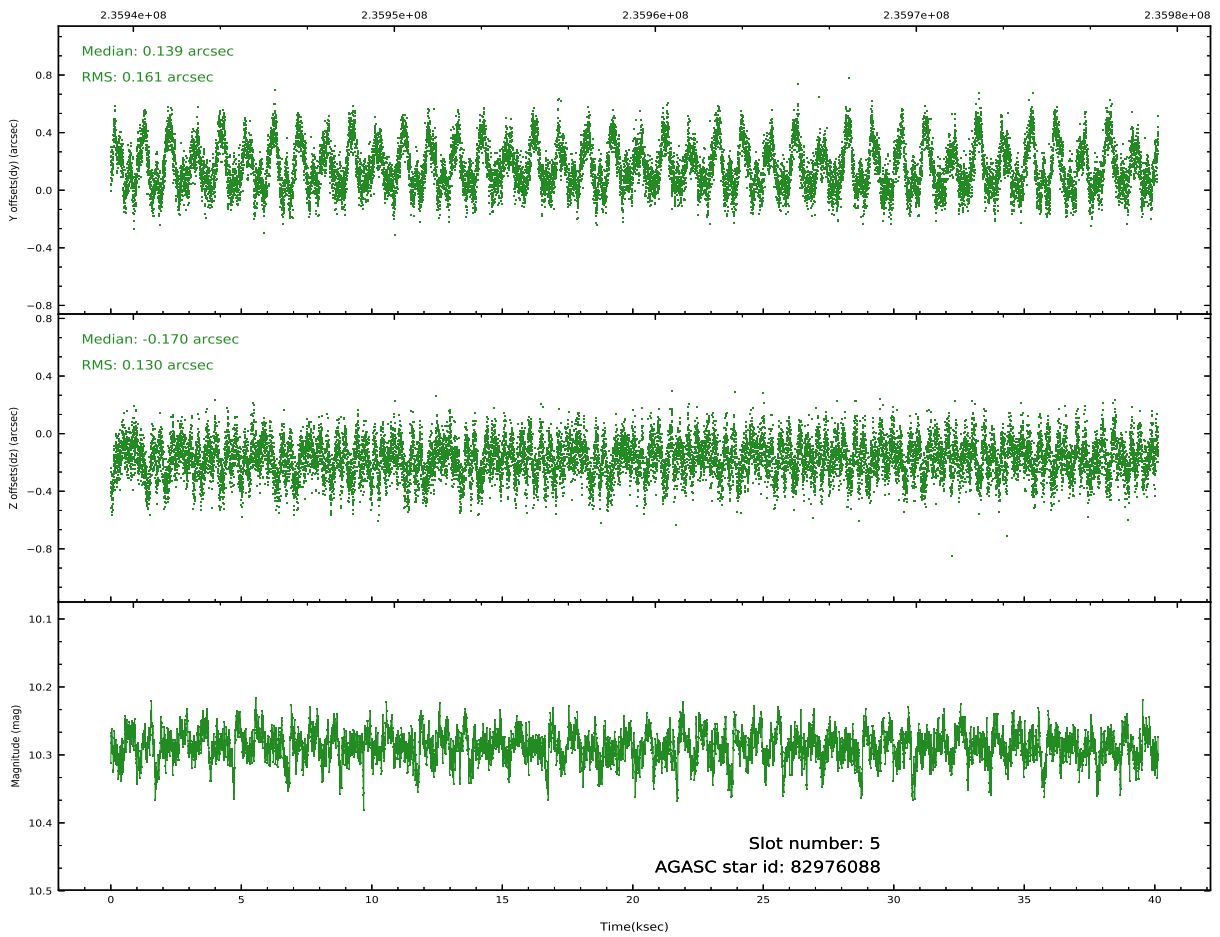
2.4.2 Slot 4



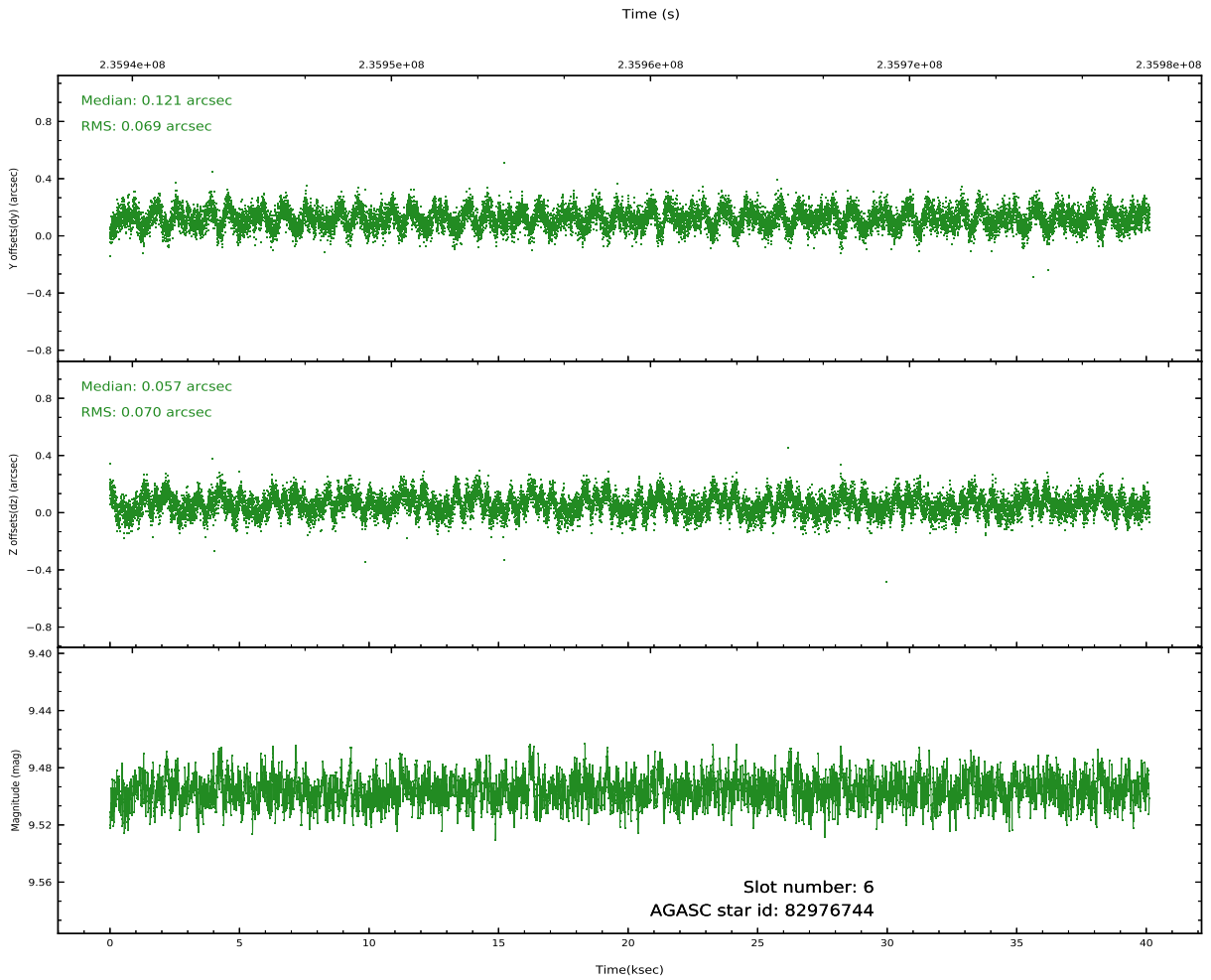
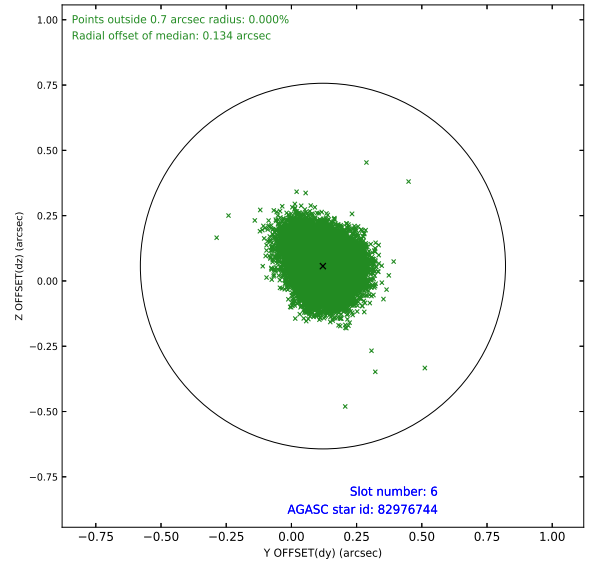
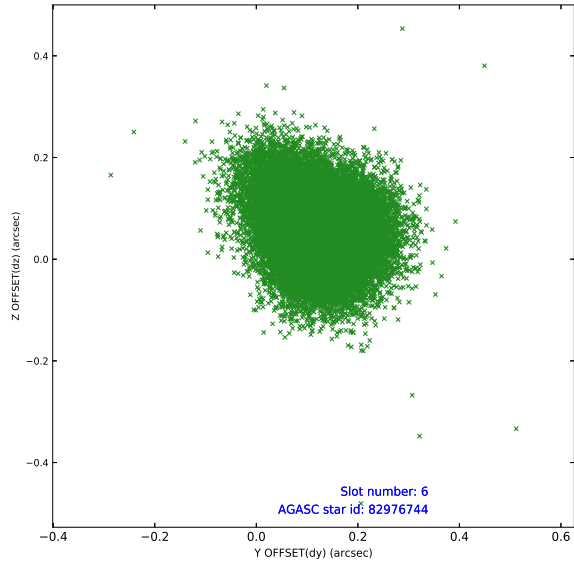
2.4.3 Slot 5



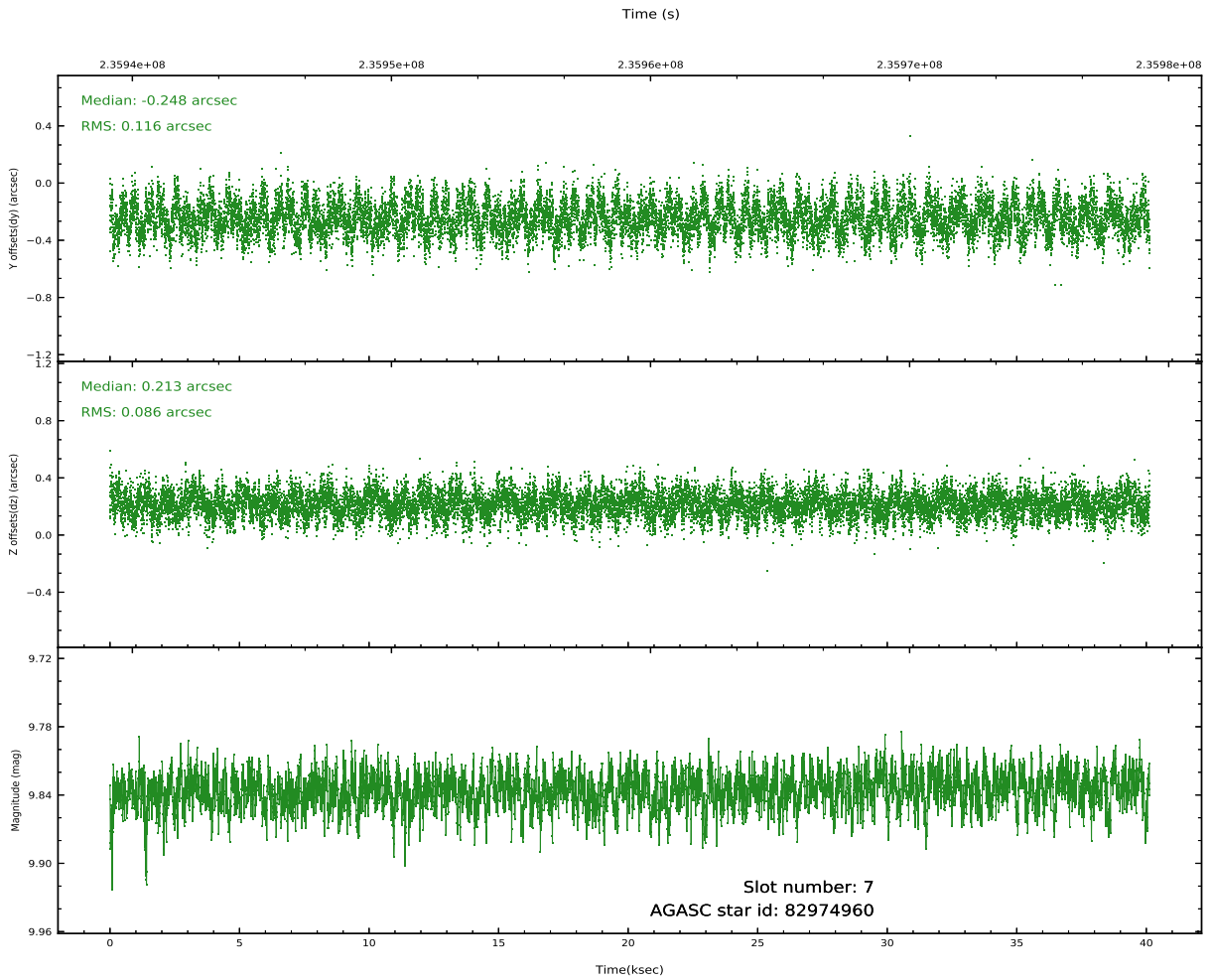
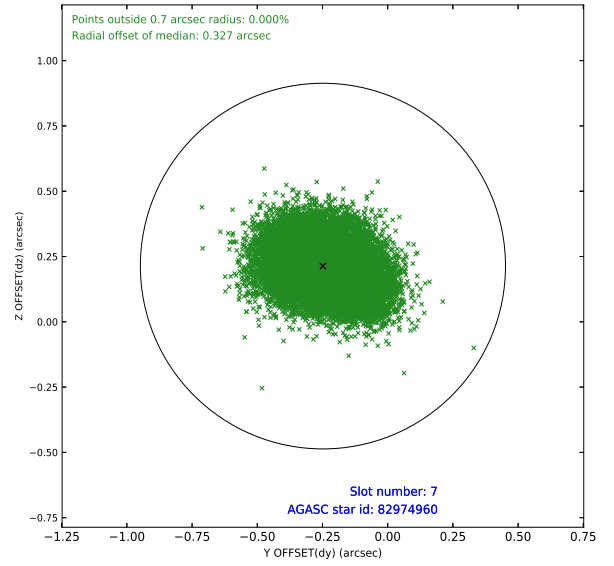
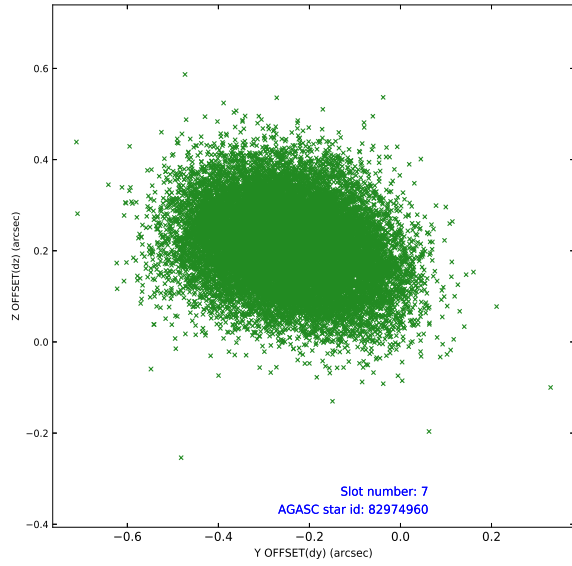
Time (s)



2.4.4 Slot 6

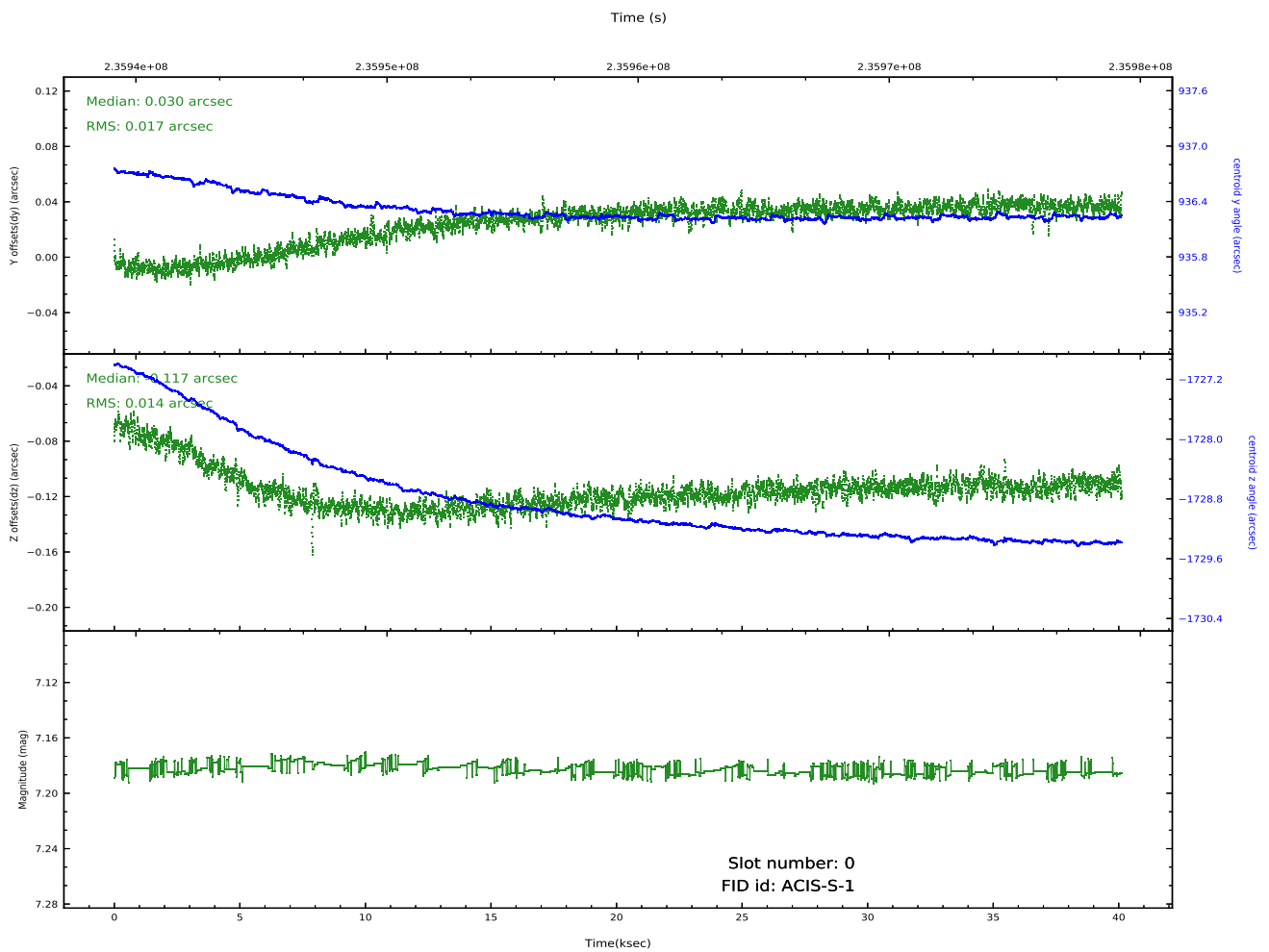
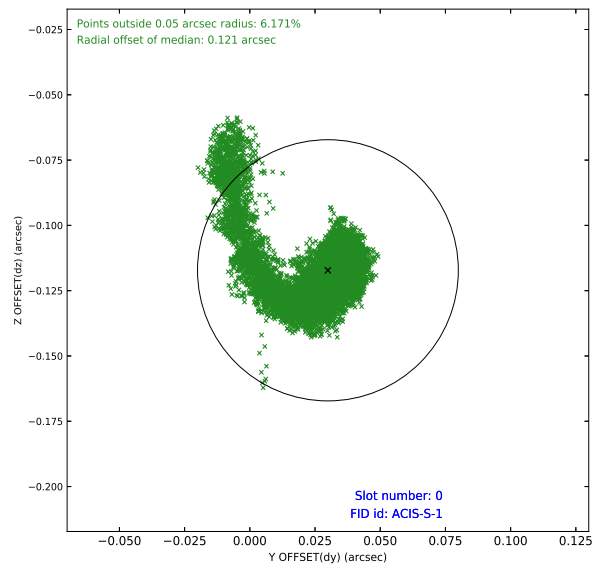
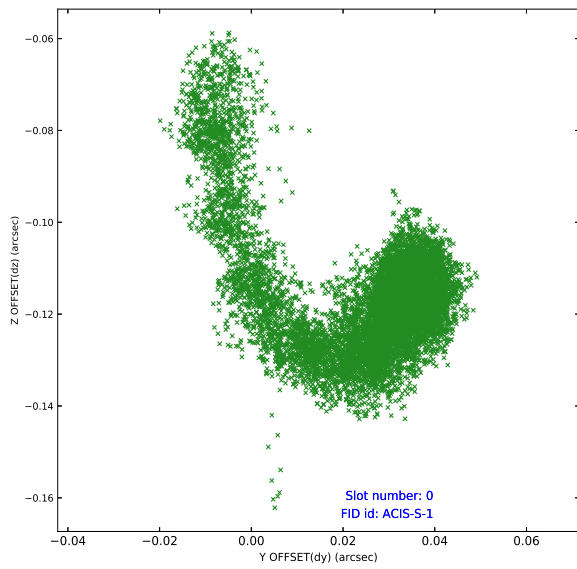


2.4.5 Slot 7

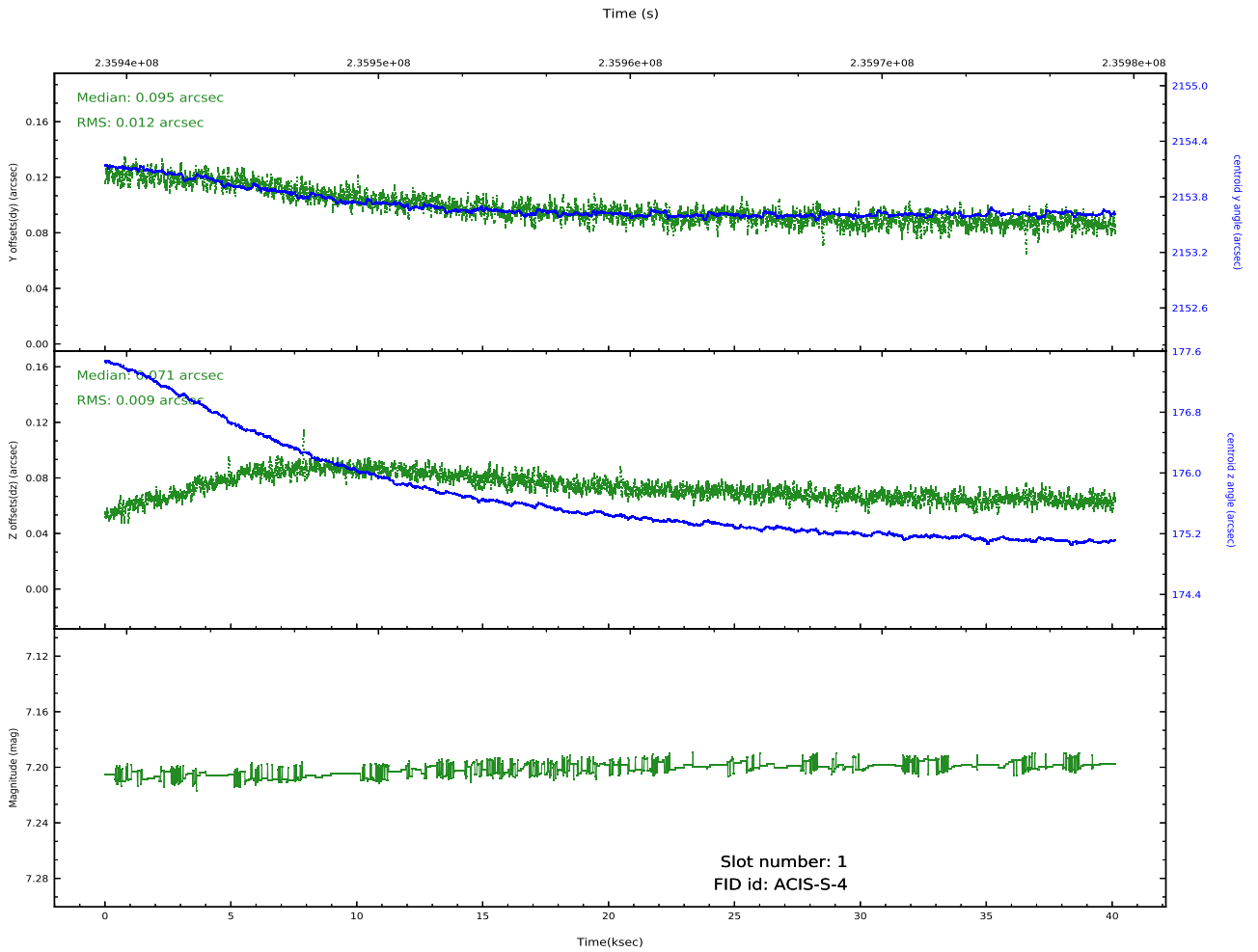
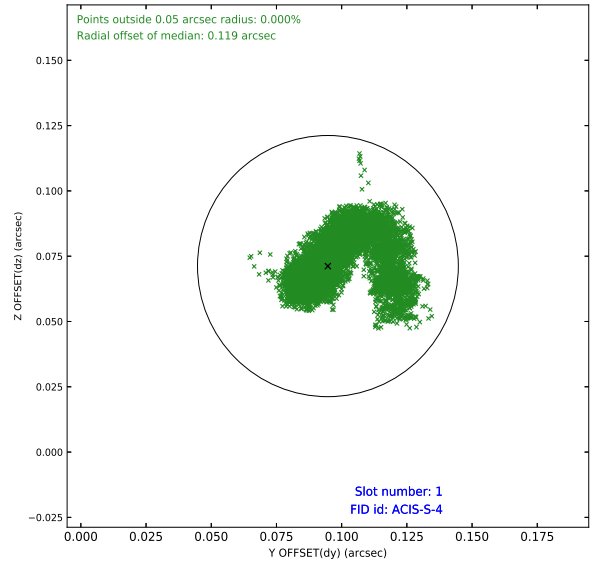
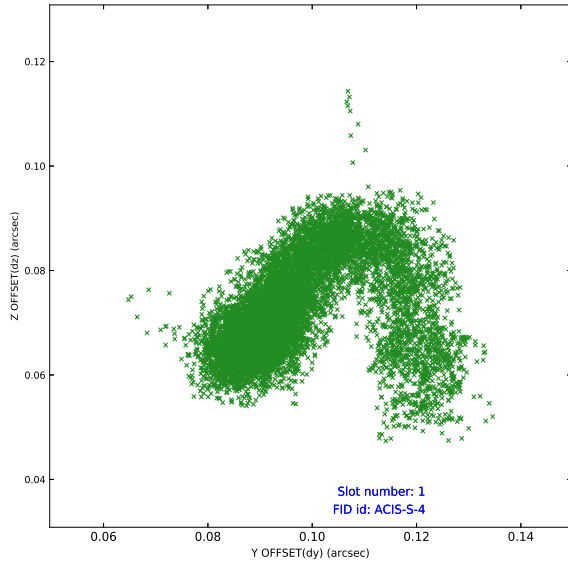


2.5 FID Slots

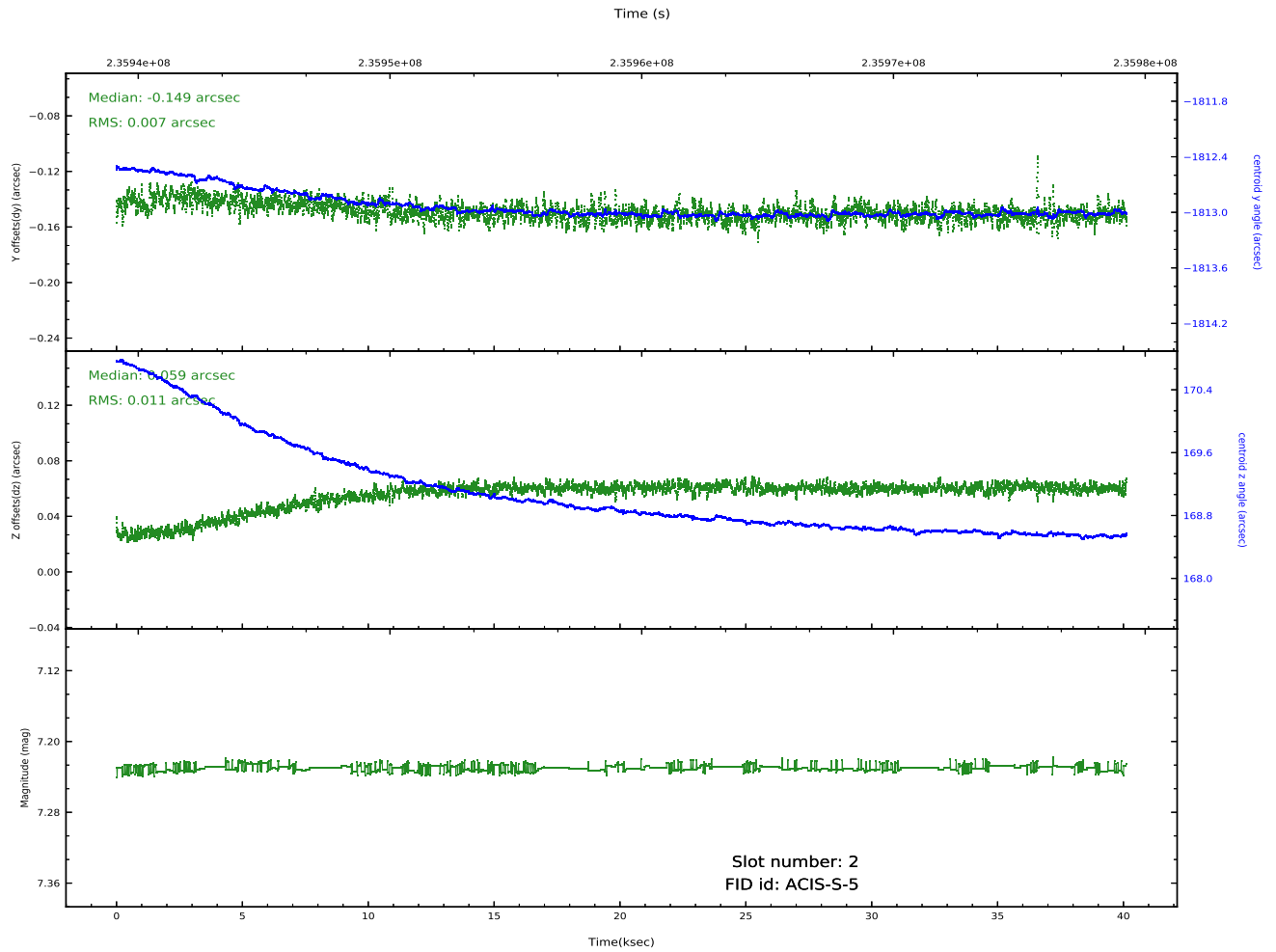
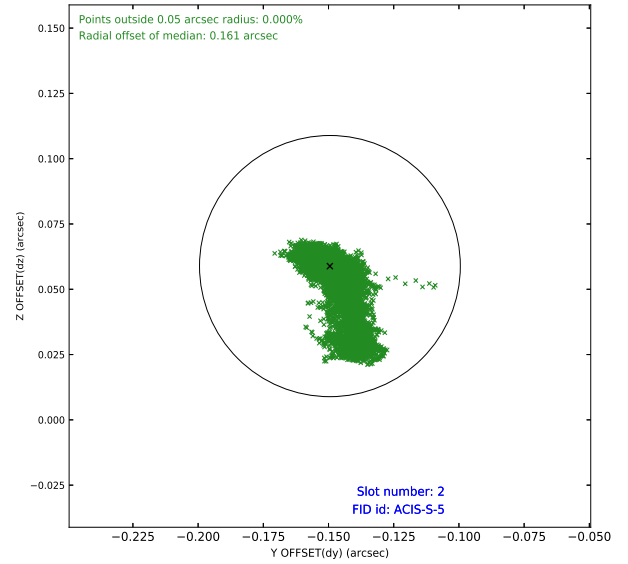
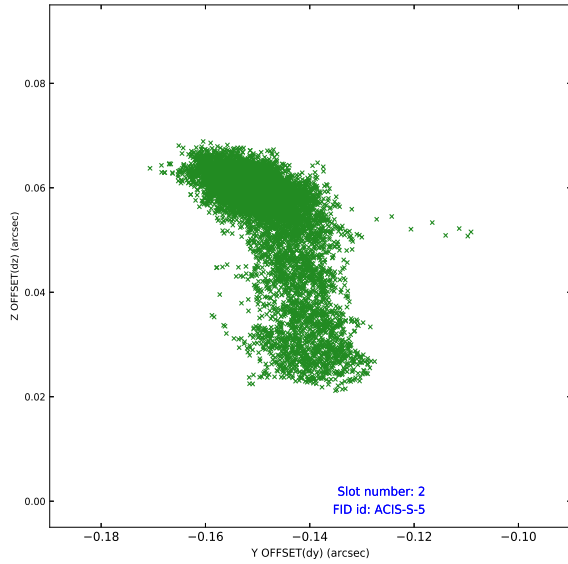
2.5.1 Slot 0



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)	2020.10.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	40.12329

A.2 Comments

Joint Proposal: NRAO