

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 19578 - L2 Version 2
Chandra X-Ray Center

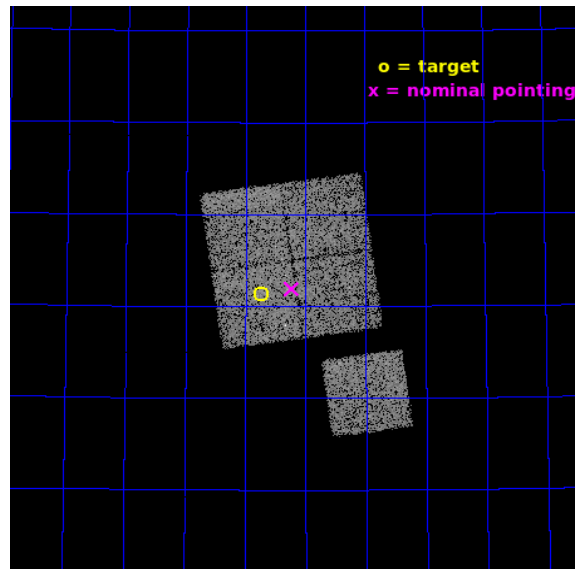
L2 Processing Date : Oct 25 2020

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1 Front

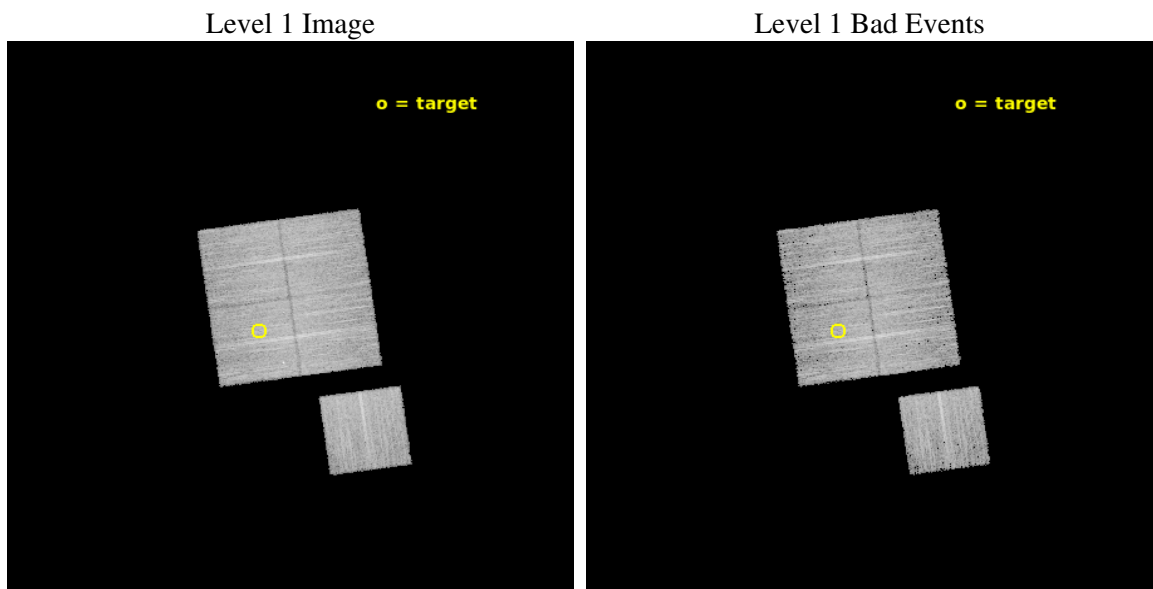
seq_num	801670	Sequence number
obs_id	19578	Observation id
title	Determining the Universality of f _{gas} at High Redshift	Proposal ti
observer	Mark Brodwin	Principal investigator
object	MOO J1229+6521	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	187.435833	Observer's specified target RA [deg]
dec_targ	65.356111	Observer's specified target Dec [deg]
ra_nom	187.30674052843	Nominal RA [deg]
dec_nom	65.365304026583	Nominal Dec [deg]
roll_nom	171.99803823252	Nominal Roll [deg]
revision	2	Processing version of data
ontime	9064.4000698328	Sum of GTIs [s]
livetime	8945.9670098062	Livetime [s]
ontime0	9061.2590795755	Sum of GTIs [s]
ontime1	9064.4000698328	Sum of GTIs [s]
ontime2	9064.4000698328	Sum of GTIs [s]
ontime3	9064.4000698328	Sum of GTIs [s]
ontime6	9064.4000698328	Sum of GTIs [s]
l2events	36511	Number of level 2 events



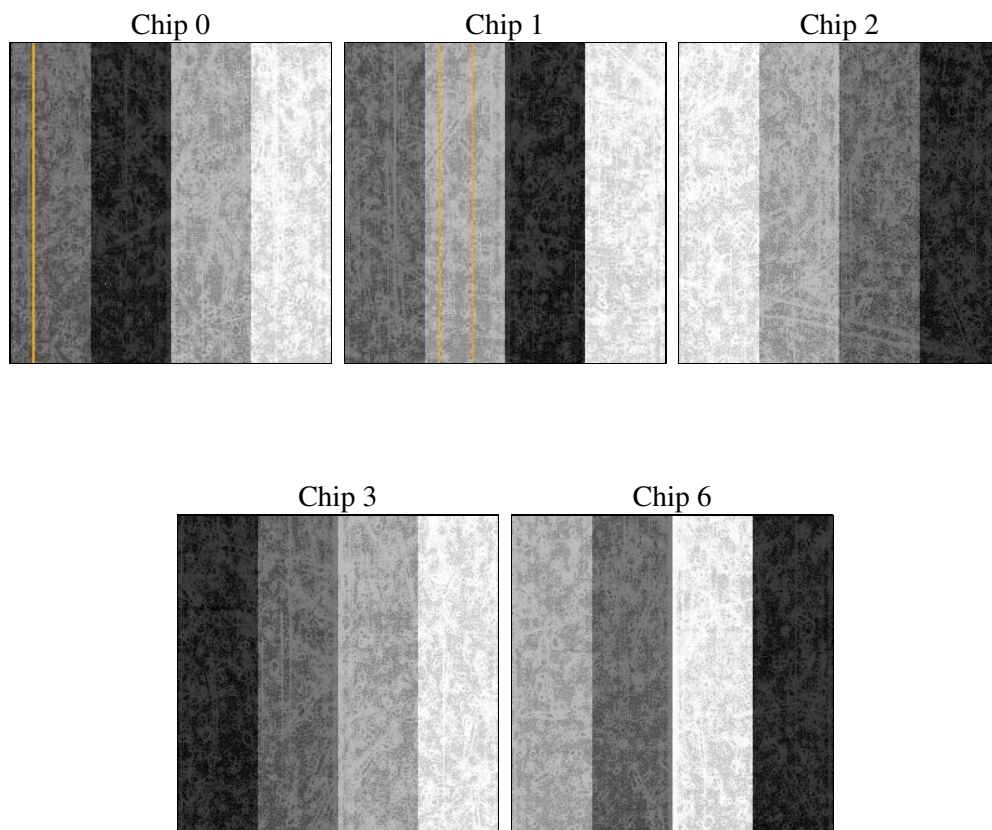
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	9000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	9064.4000698328	Sum of GTIs [s]
caldsver	4.9.3	 	ontime0	9061.2590795755	Sum of GTIs [s]
date	2020-10-25T04:00:36	Date and time of file creation	ontime1	9064.4000698328	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	9064.4000698328	Sum of GTIs [s]
			ontime3	9064.4000698328	Sum of GTIs [s]
			ontime6	9064.4000698328	Sum of GTIs [s]
			l1events	326482	Number of level 1 events

2.1.4 Events

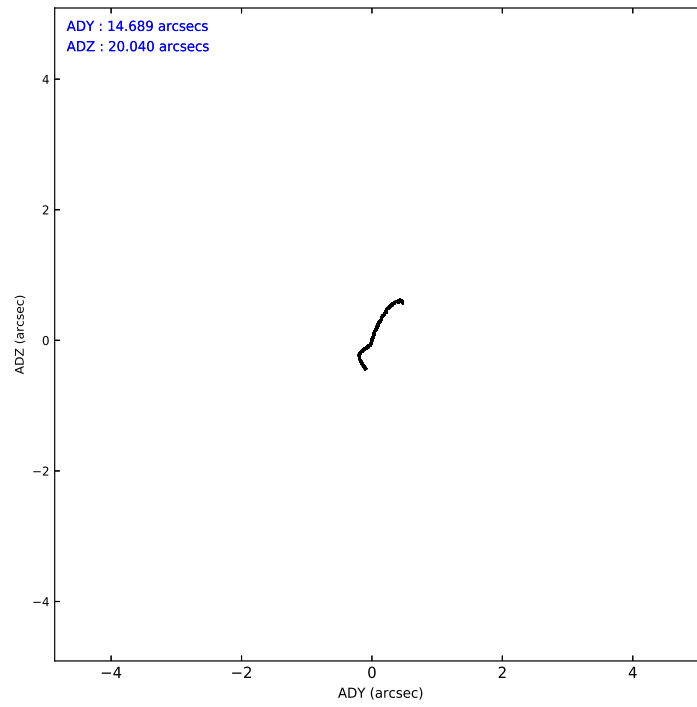
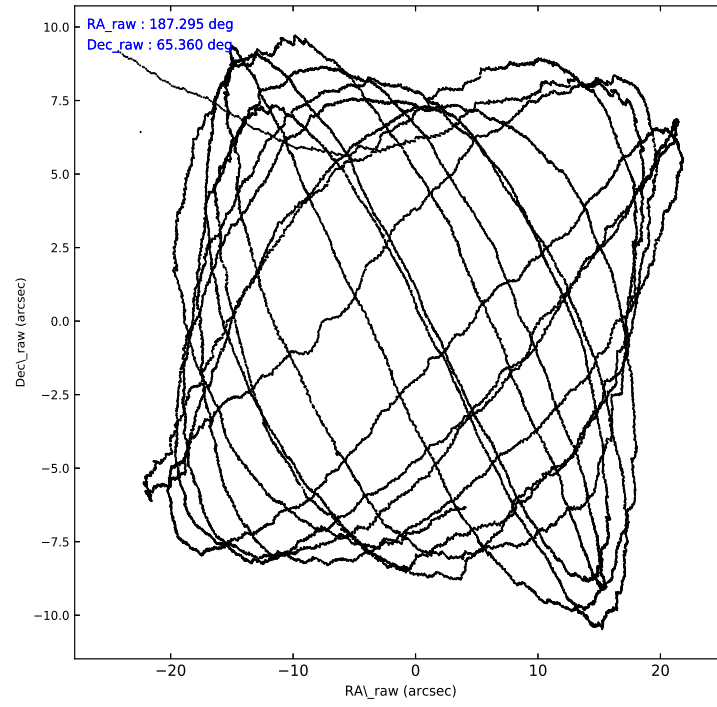
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	63145	62996	68335	66287	65719
rejected events	54682	53678	60041	57666	57328
rejected %	86%	85%	87%	86%	87%

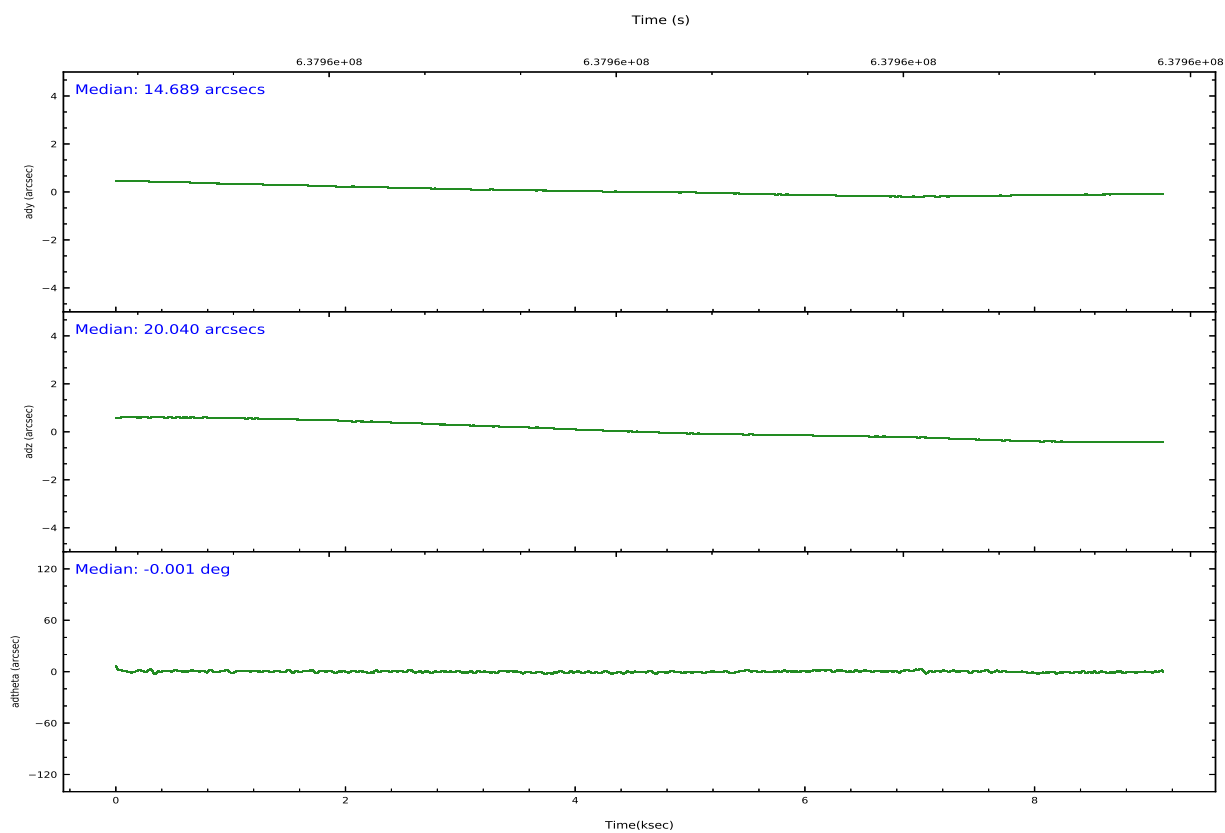
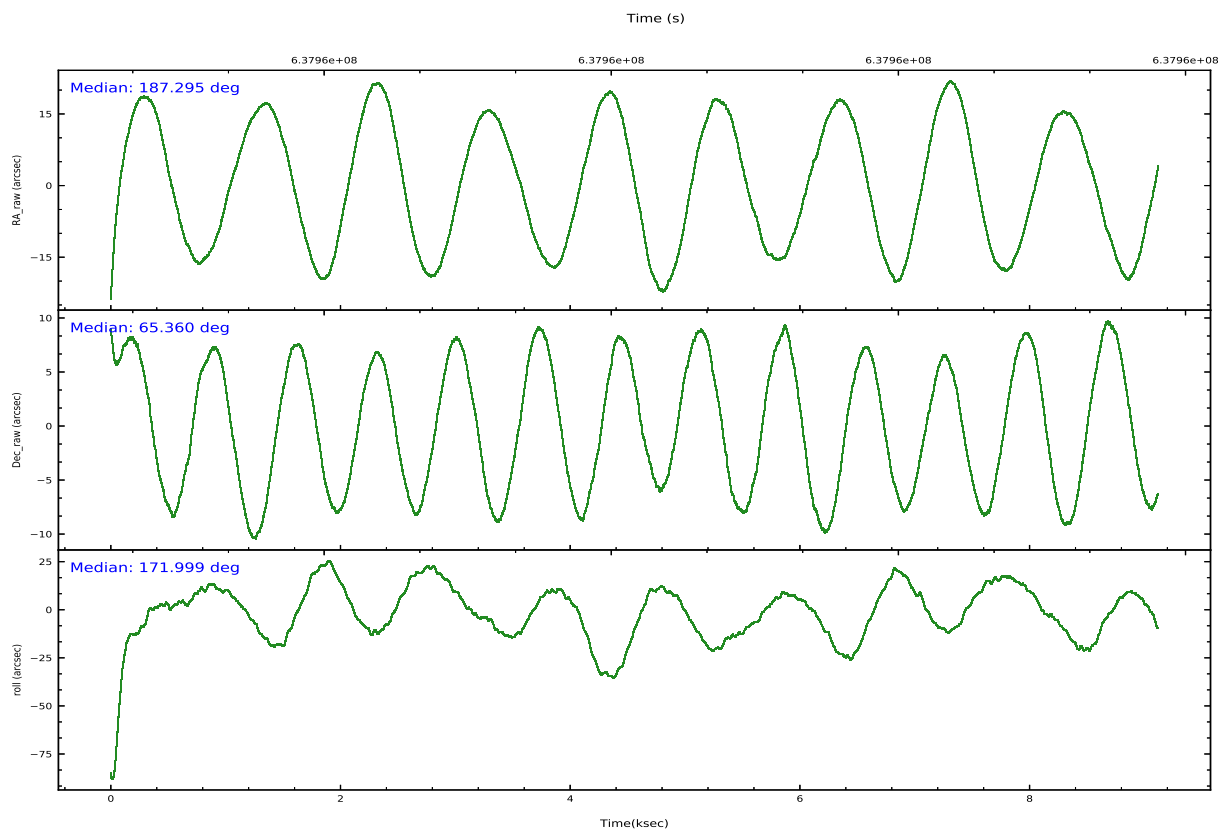
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	3034	3368	3078	3753	3070
	4%	5%	4%	5%	4%
grade 1 events	47	40	52	47	27
	0%	0%	0%	0%	0%
grade 2 events	2146	2299	2004	1697	1879
	3%	3%	2%	2%	2%
grade 3 events	840	870	783	785	780
	1%	1%	1%	1%	1%
grade 4 events	743	851	847	767	787
	1%	1%	1%	1%	1%
grade 5 events	2980	3188	2934	3399	3143
	4%	5%	4%	5%	4%
grade 6 events	1705	1934	1588	1624	1881
	2%	3%	2%	2%	2%
grade 7 events	51650	50446	57049	54215	54152
	81%	80%	83%	81%	82%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-01236	ACIS-01236	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	187.356283	187.30674052843	CCD I2 on	Y	Y
[deg] Pointing Dec	65.370564	65.365304026583	CCD I3 on	Y	Y
[deg] Pointing Roll	171.728168	171.99803823252	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	O1	Y
[mm] SIM translation stage pos	-225.840463	-225.8433433320239	CCD S3 on	N	N
[mm] SIM translation stage offset	-7.752	-7.749109670905796	CCD S4 on	N	N
[s] Observation start time (MET)	637953263.184000	637952200.26507	CCD S5 on	N	N
Observation start date	2018-03-20T17:13:14	2018-03-20T16:56:40	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	637962263.184000	637962947.39071	On-chip summing requested	N	N
Observation end date	2018-03-20T19:43:14	2018-03-20T19:55:47	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



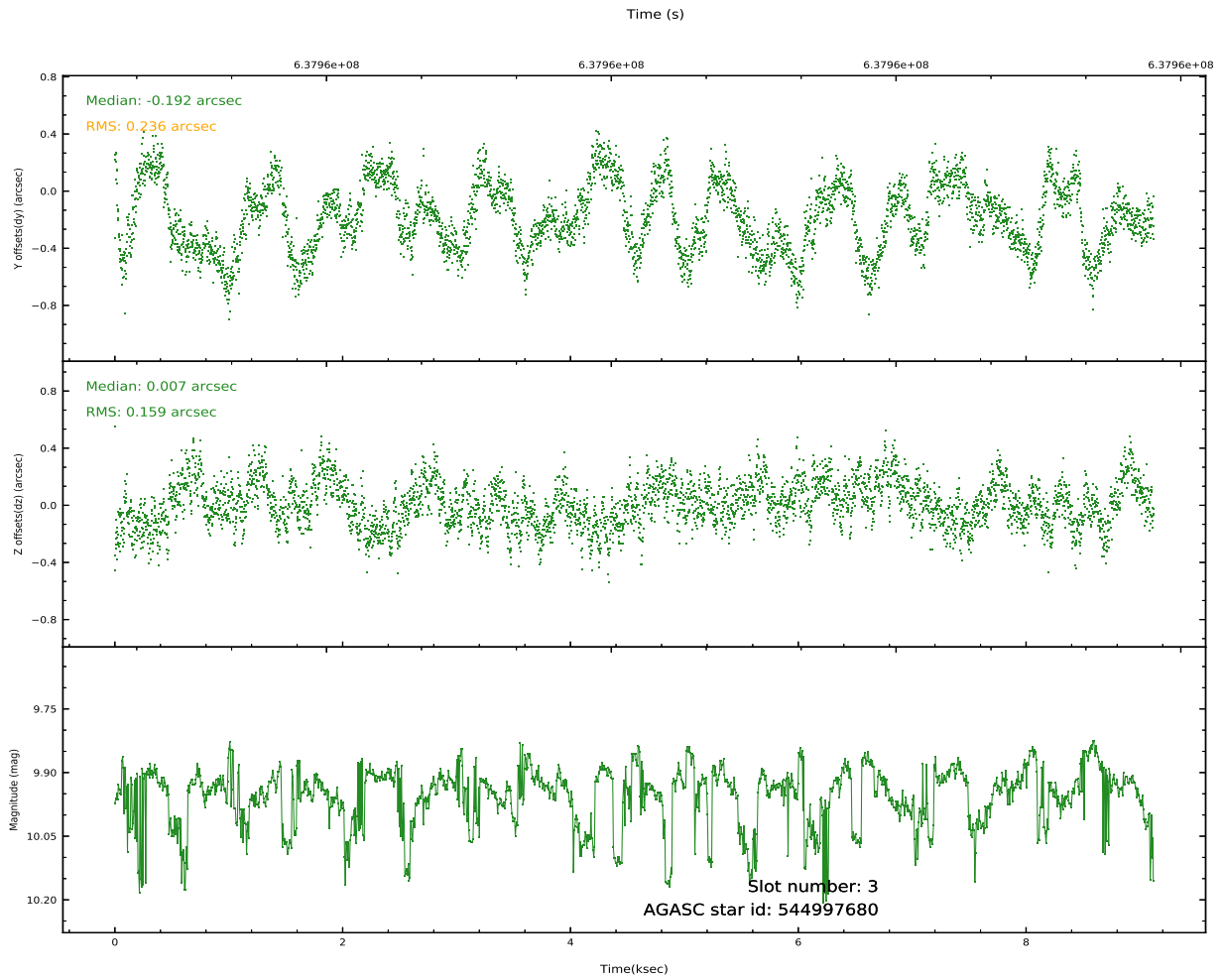
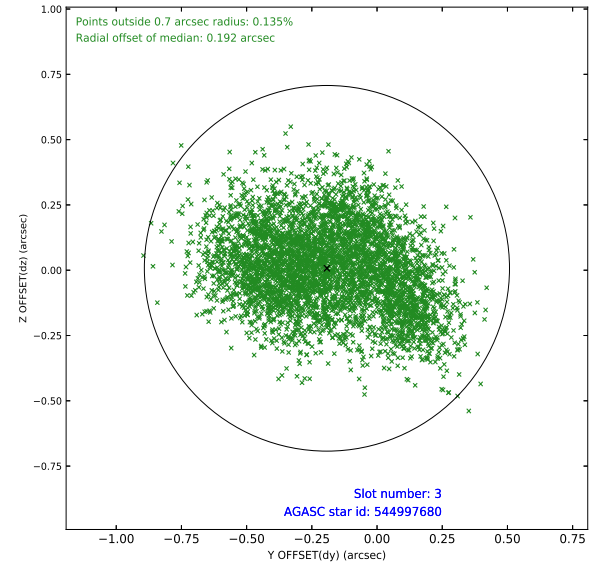
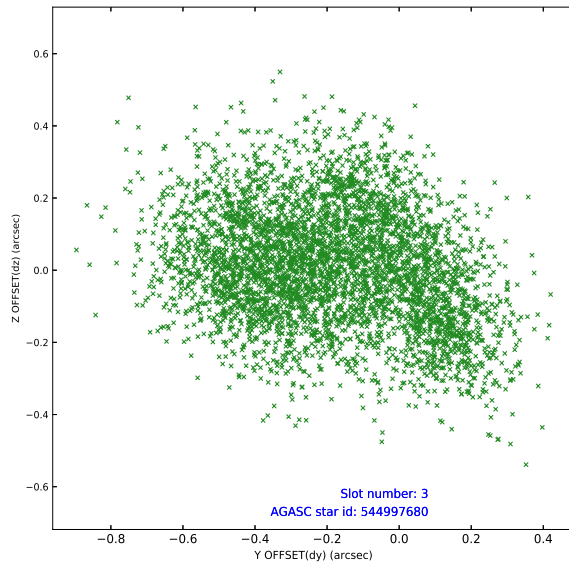


Slot Statistics

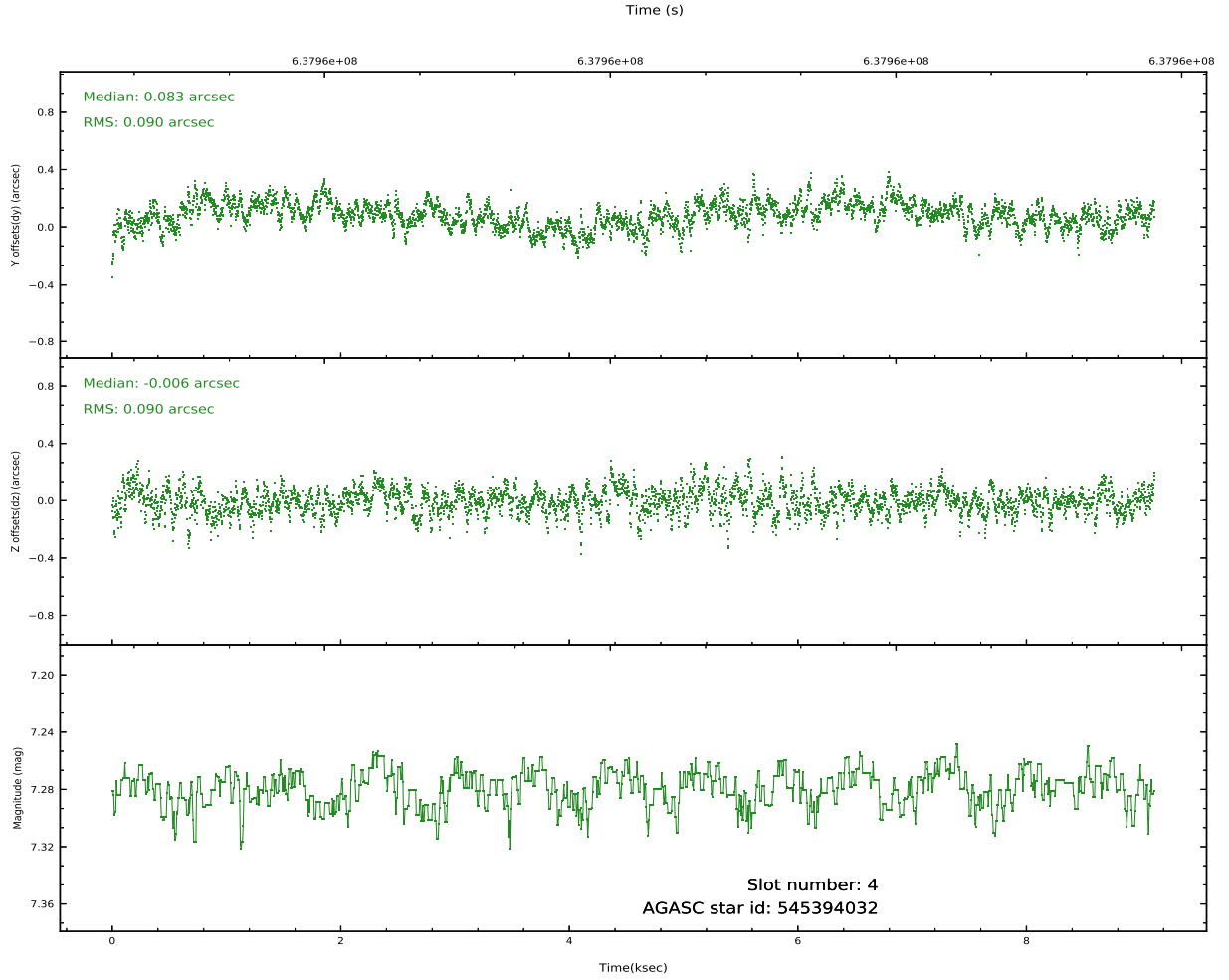
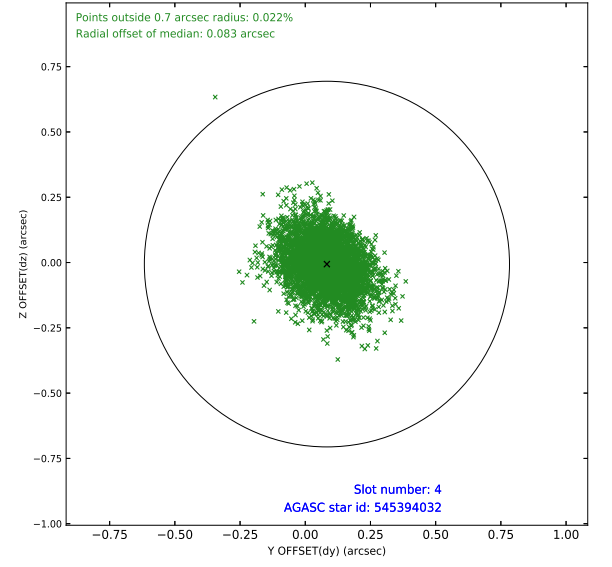
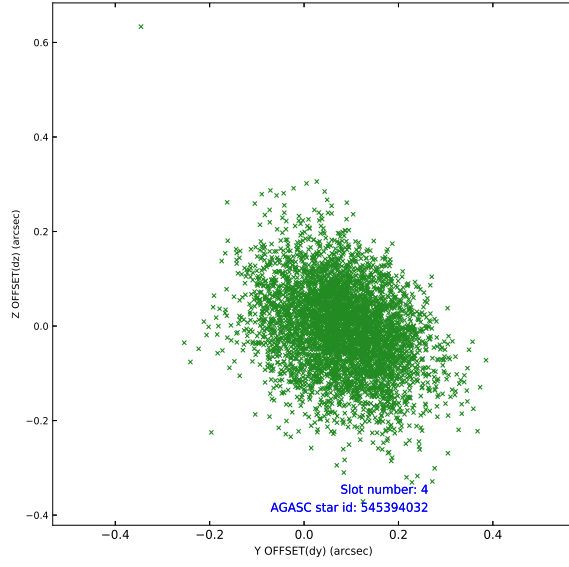
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.06	2225	1.000	0.161	-0.099	0.024	0.038	0.000000	0.000000	924.72	-1003
1	FID		ACIS-I-2	7.00	2225	1.000	-0.173	0.105	0.013	0.020	0.000000	0.000000	-769.78	-1008
2	FID		ACIS-I-4	6.97	2225	1.000	-0.084	0.062	0.012	0.022	0.000000	0.000000	2143.69	897
3	GUIDE	used	544997680	9.94	4432	1.000	-0.192	0.007	0.310	0.474	185.973012	64.875008	1838.65	2047
4	GUIDE	used	545394032	7.28	4448	1.000	0.083	-0.006	0.134	0.224	187.742432	65.897854	-287.74	-1961
5	GUIDE	used	545397680	9.87	4443	1.000	-0.006	-0.169	0.230	0.383	186.633679	65.182994	984.20	818
6	GUIDE	used	546311272	9.68	4444	1.000	0.024	0.113	0.200	0.334	188.624678	65.219652	-1968.98	243
7	GUIDE	used	546315512	9.95	4435	1.000	0.095	0.052	0.246	0.412	188.670116	65.171886	-2065.07	402

2.4 Star Slots

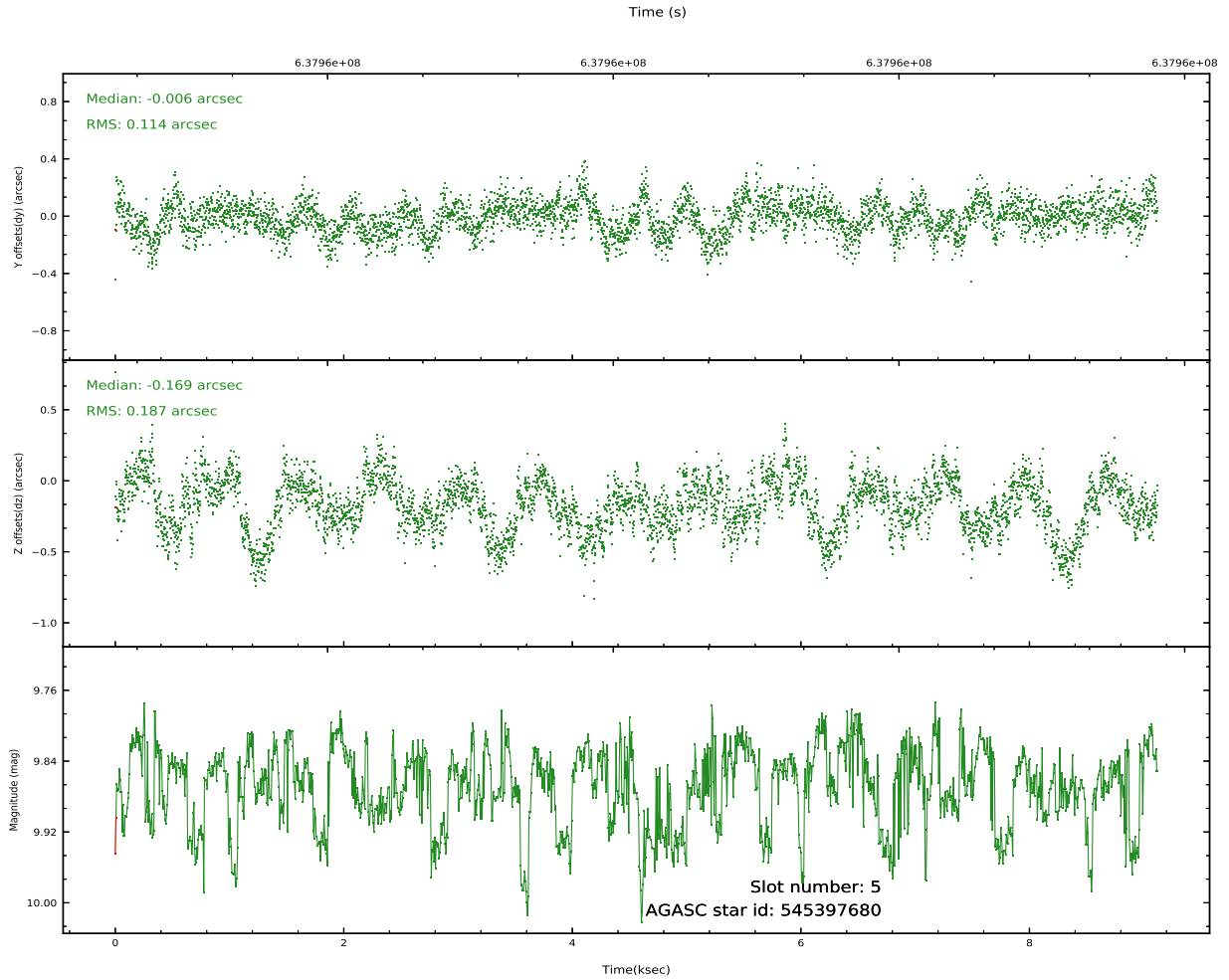
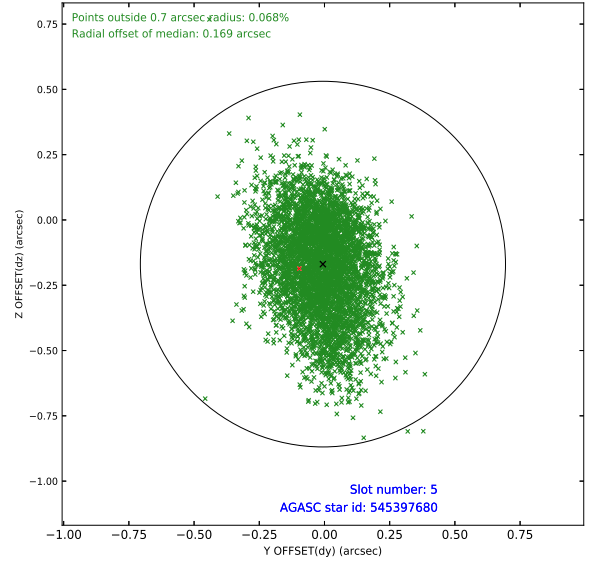
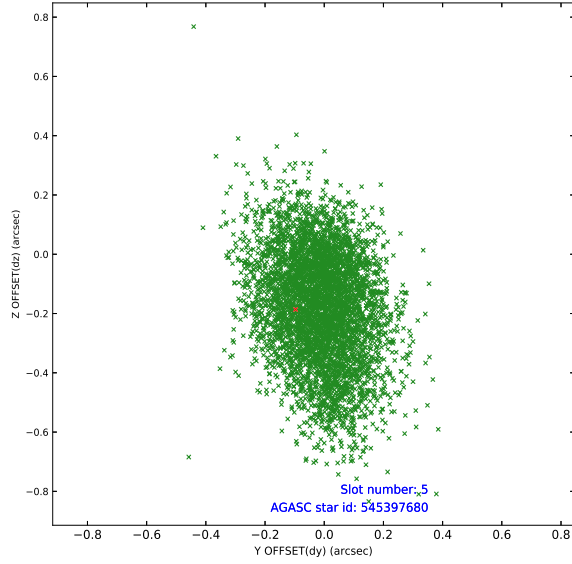
2.4.1 Slot 3



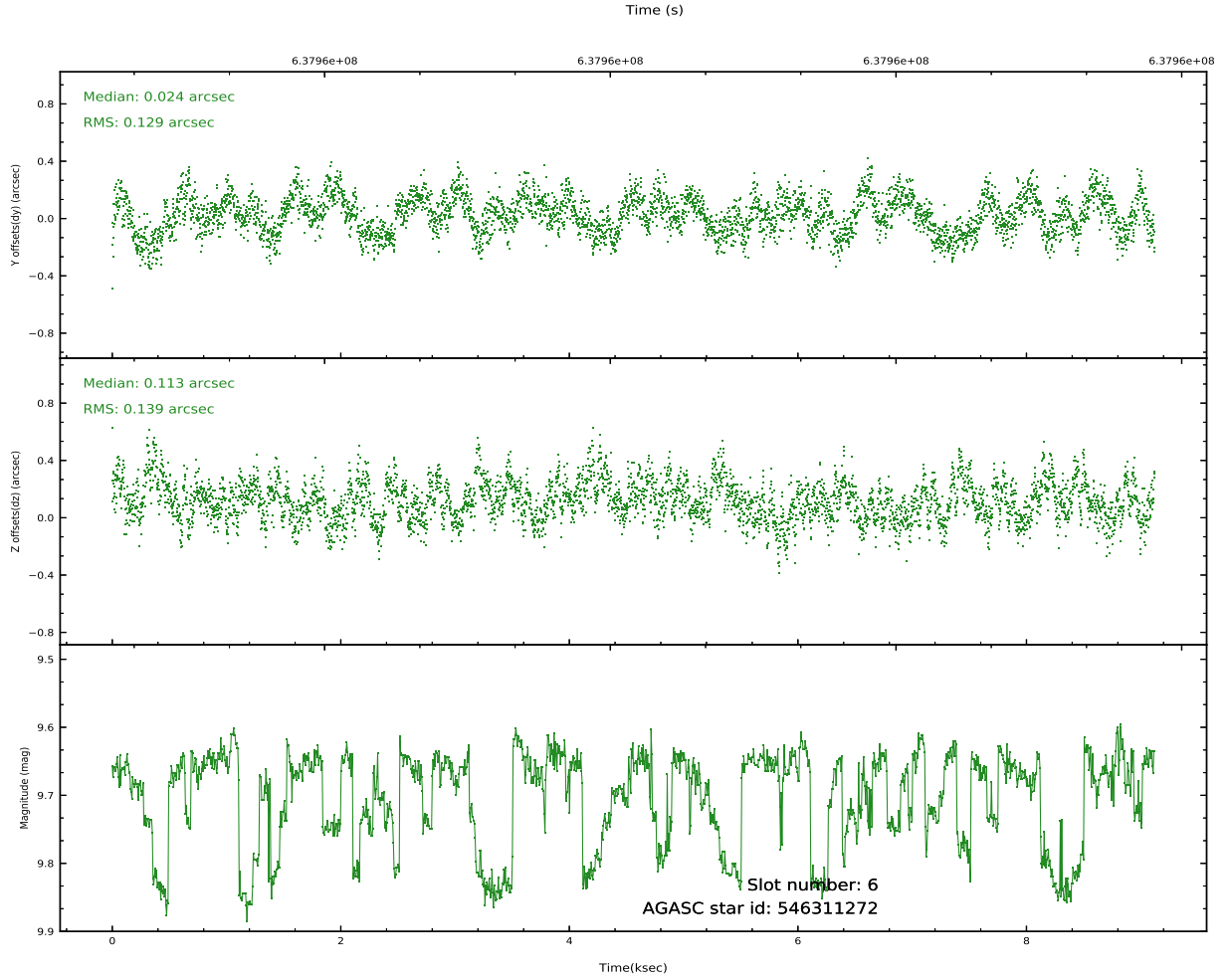
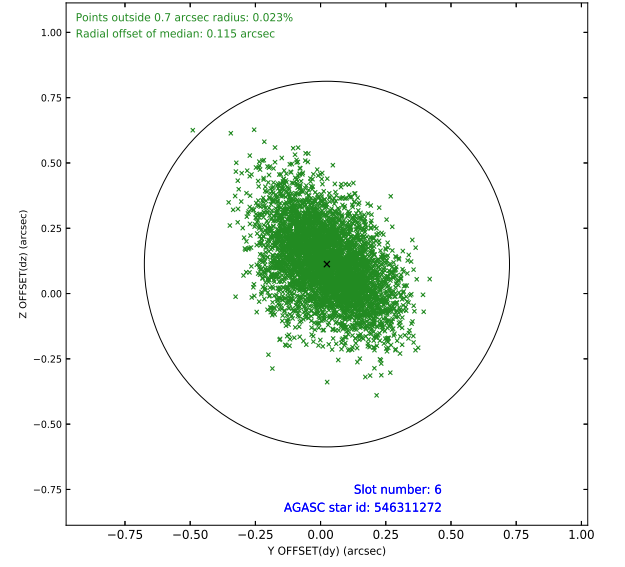
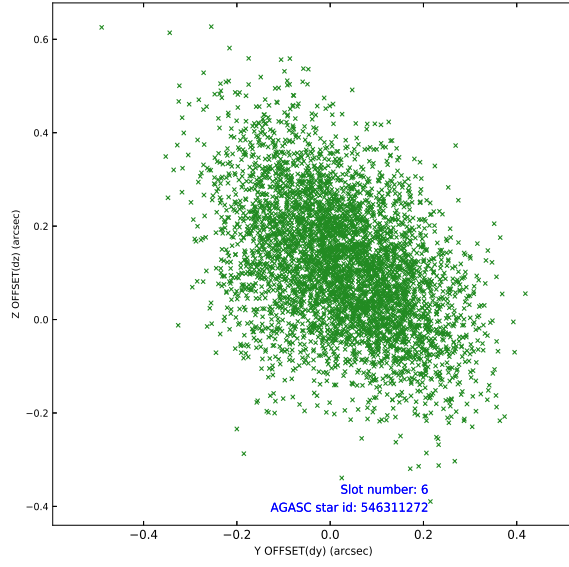
2.4.2 Slot 4



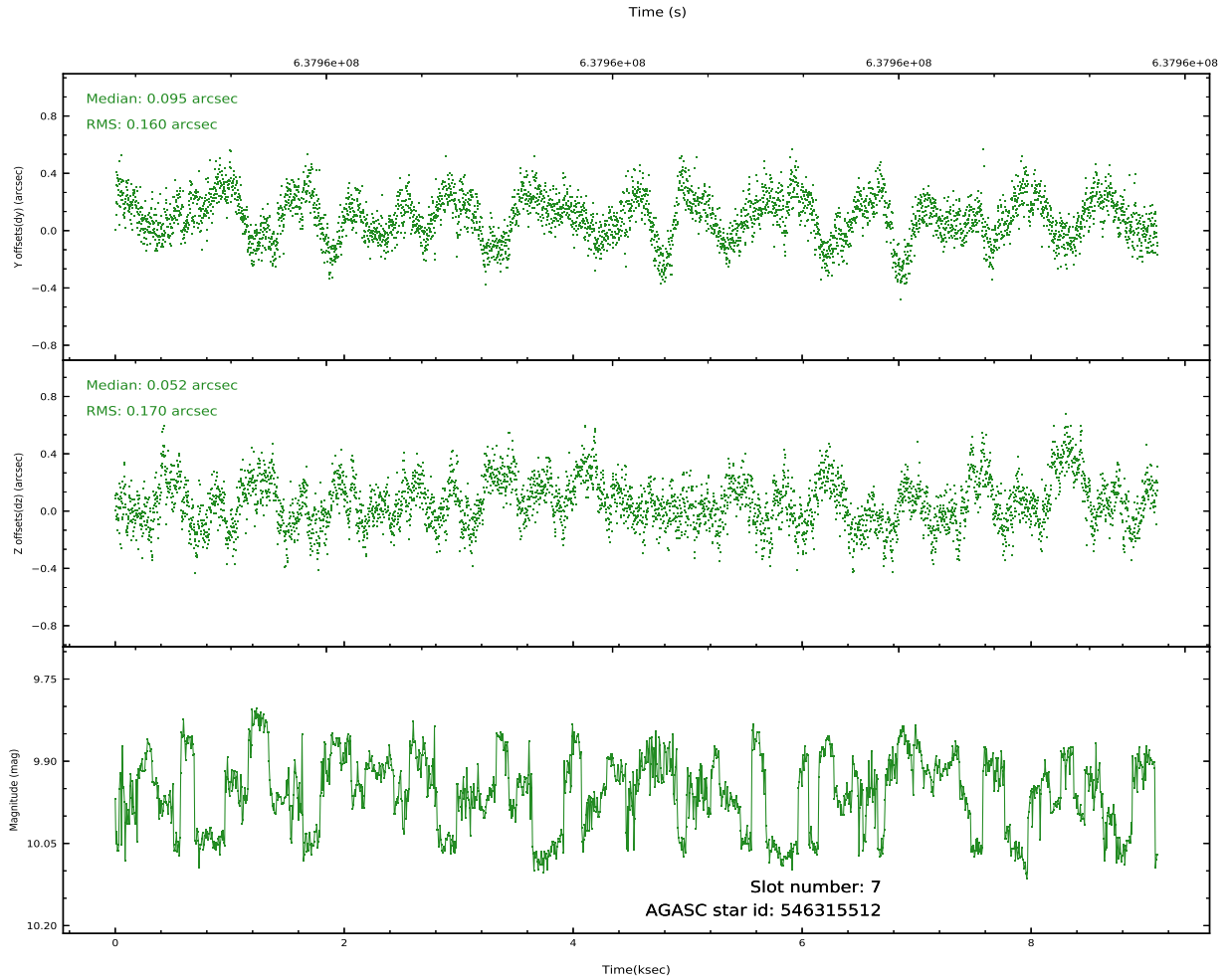
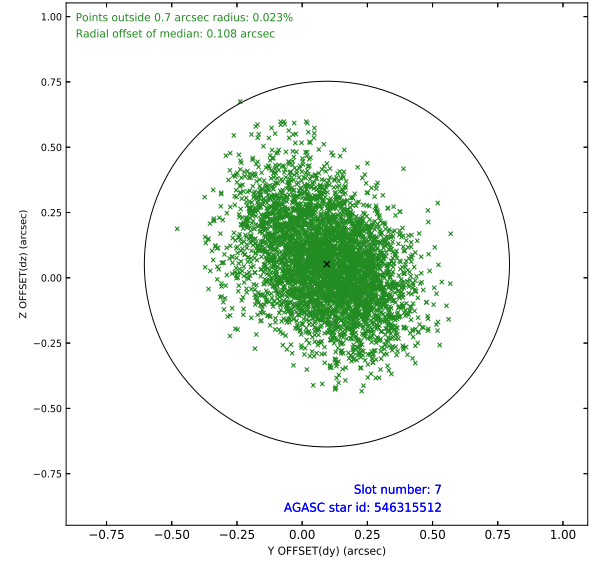
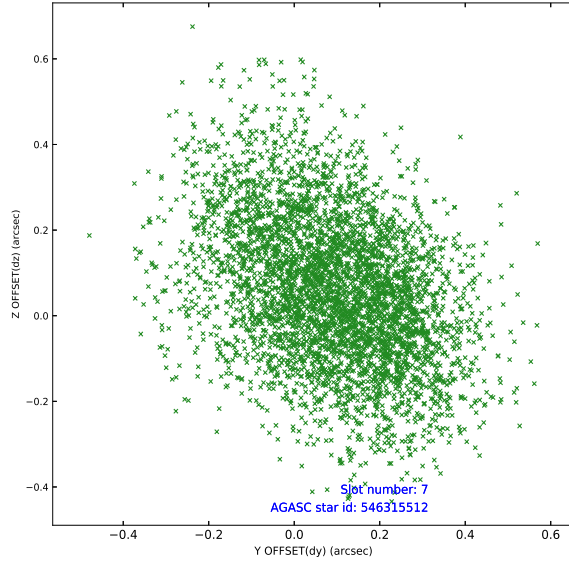
2.4.3 Slot 5



2.4.4 Slot 6

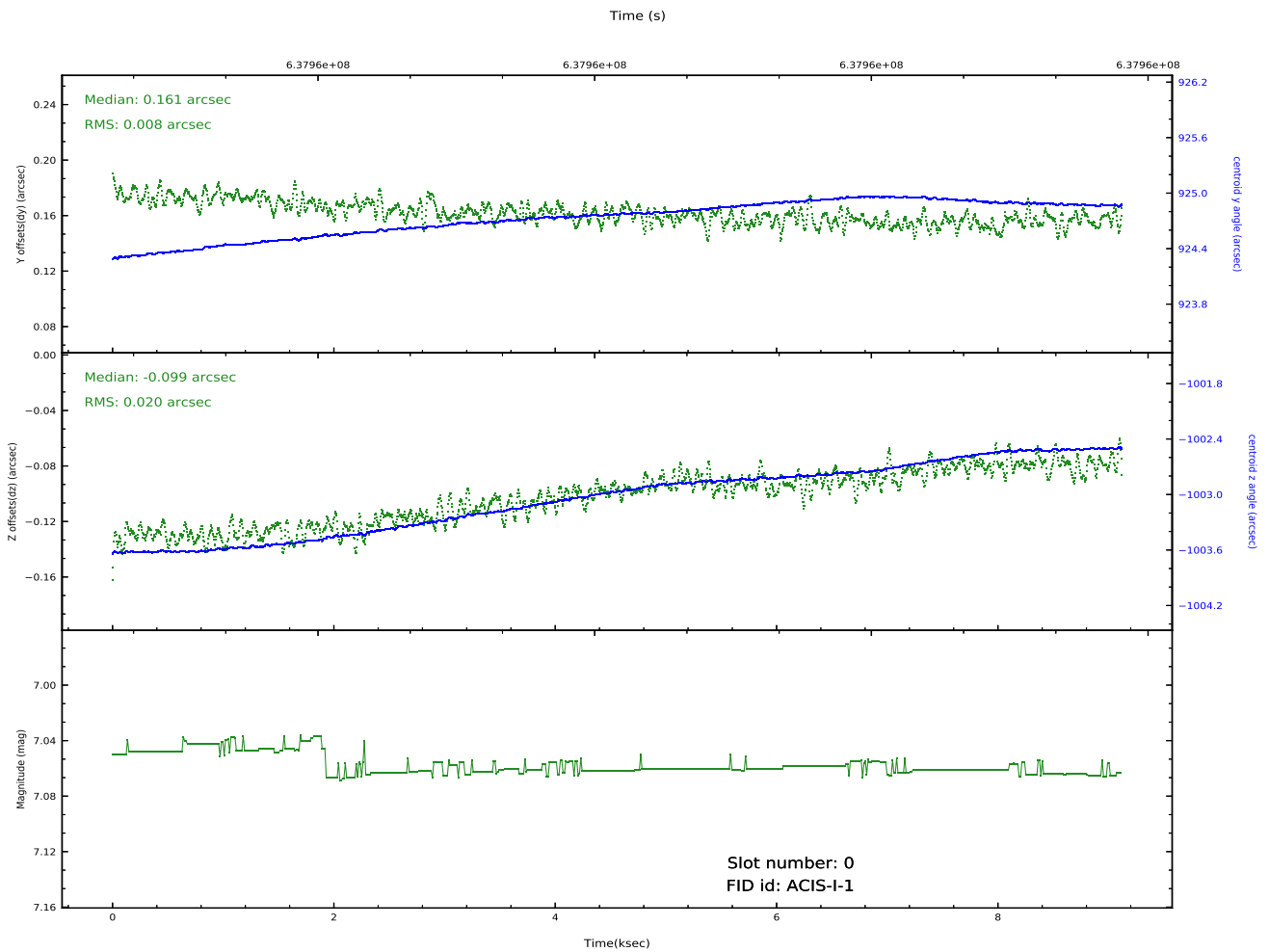
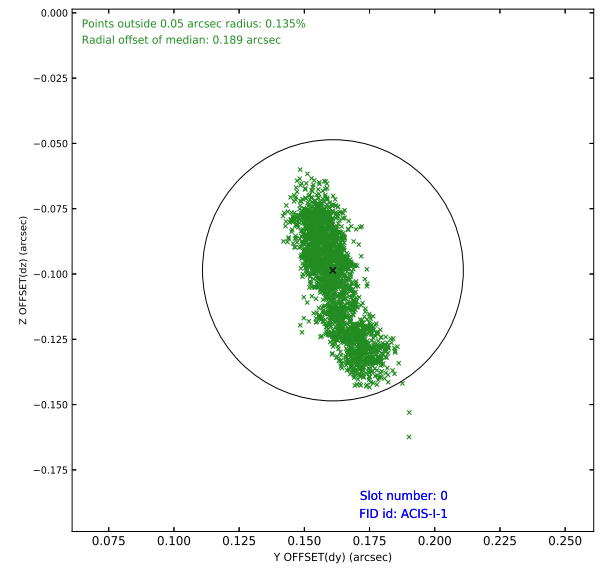
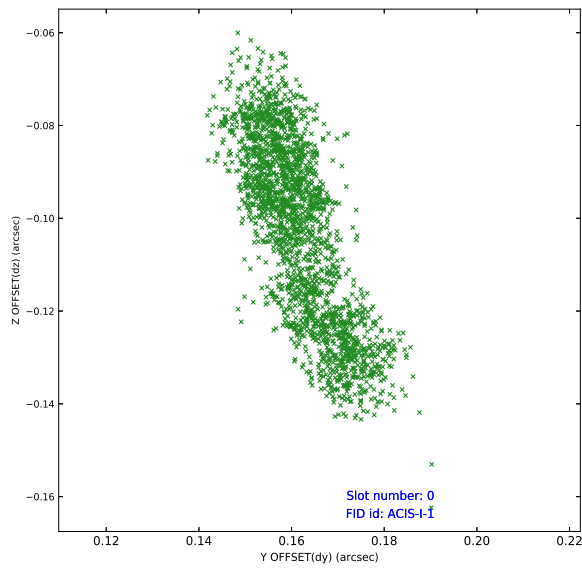


2.4.5 Slot 7

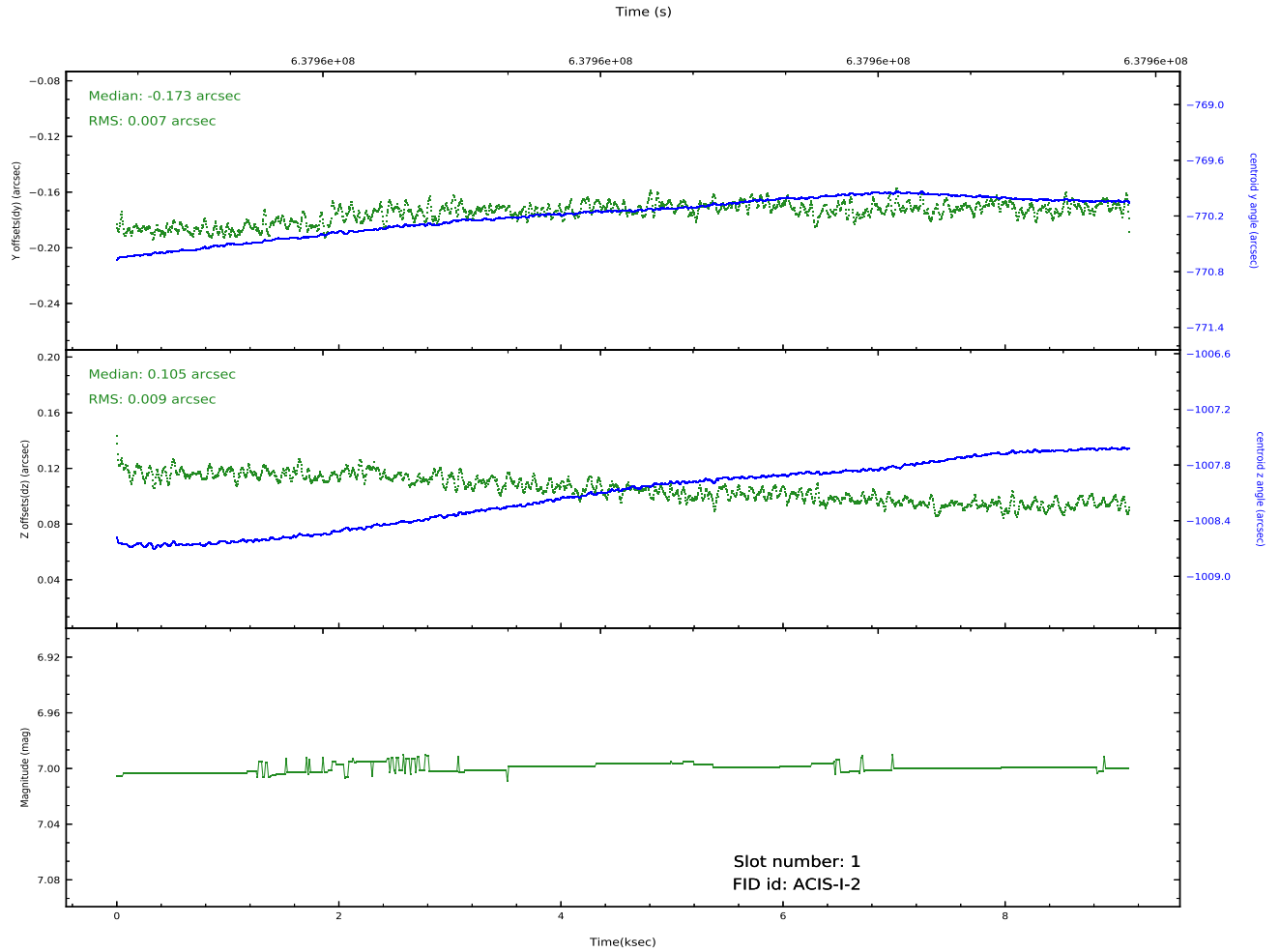
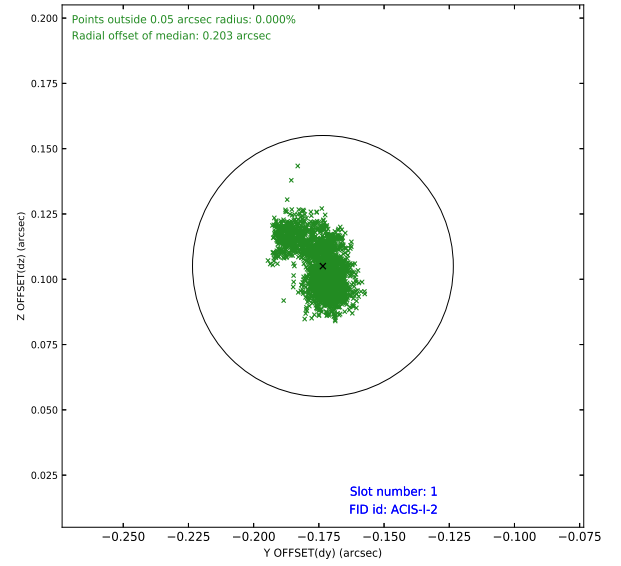
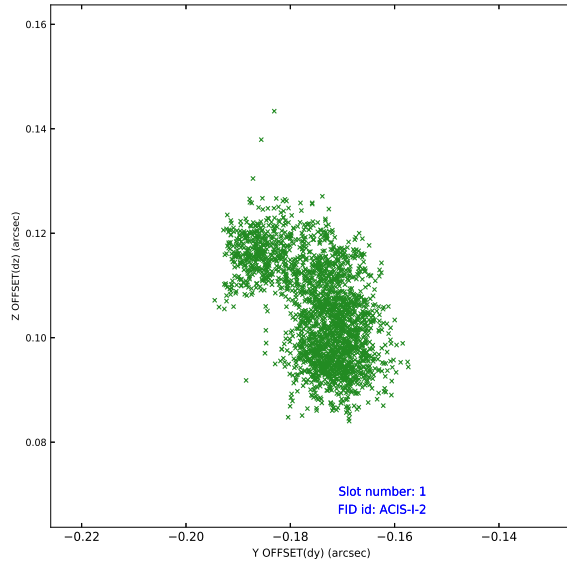


2.5 FID Slots

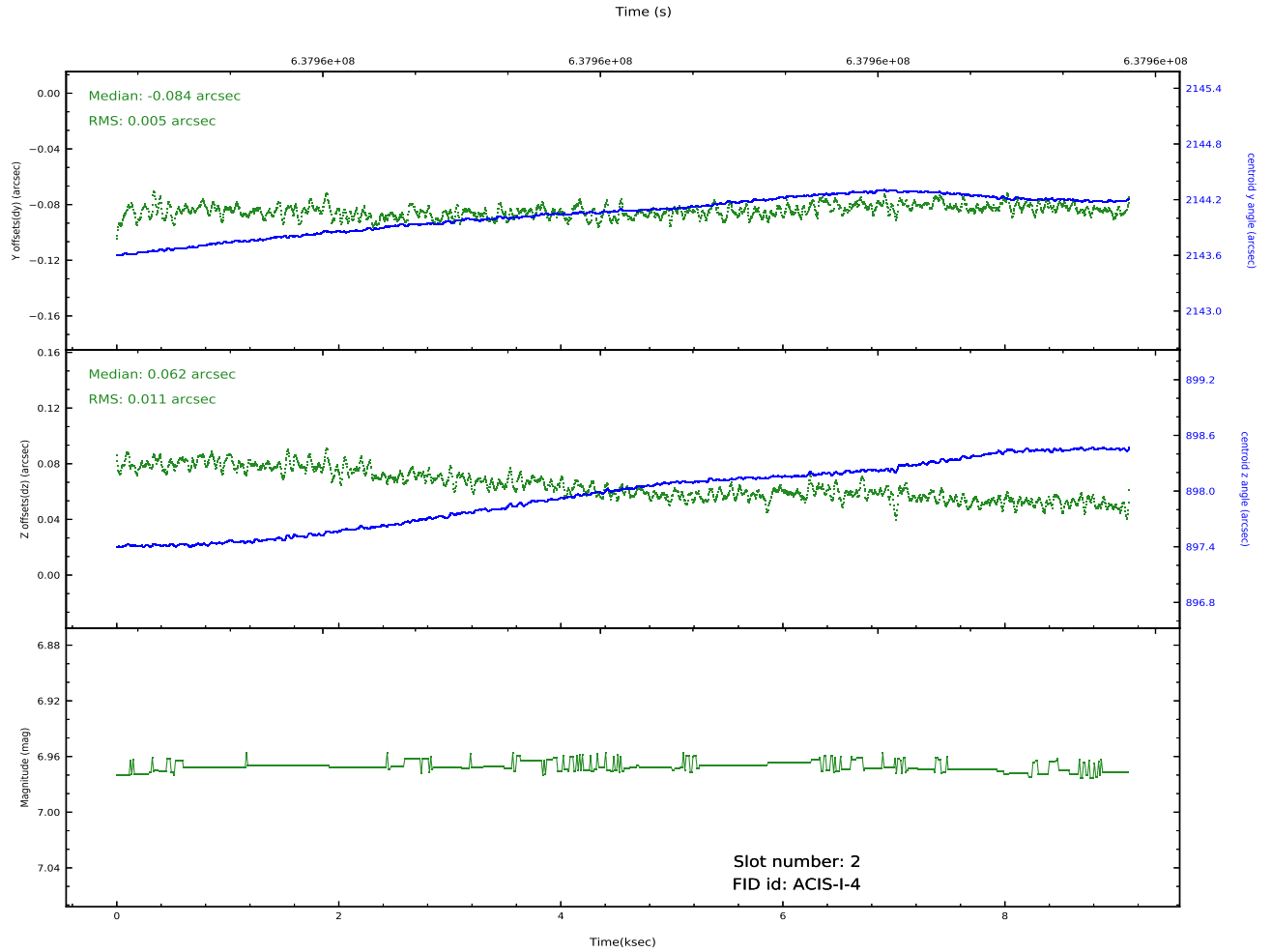
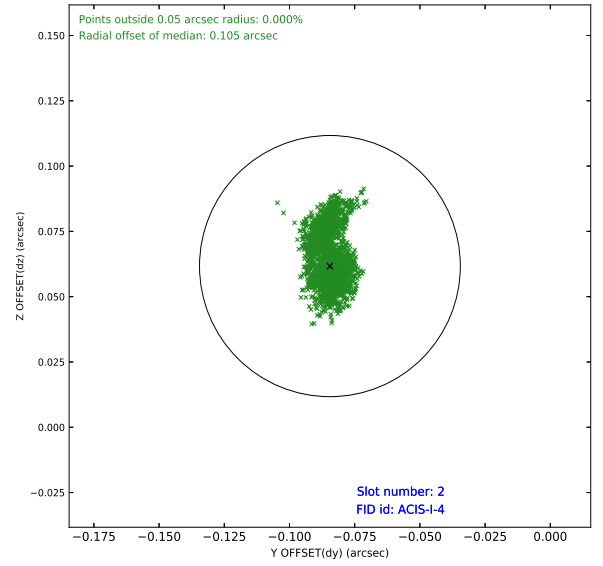
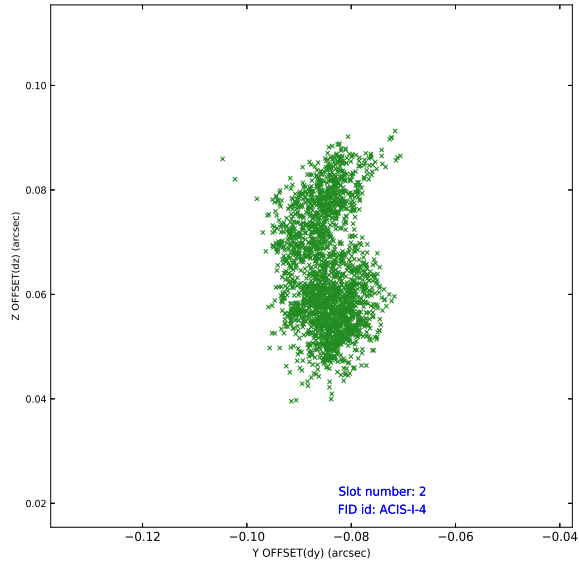
2.5.1 Slot 0



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	9.0644000698328

A.2 Comments