

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20511 - L2 Version 2
Chandra X-Ray Center

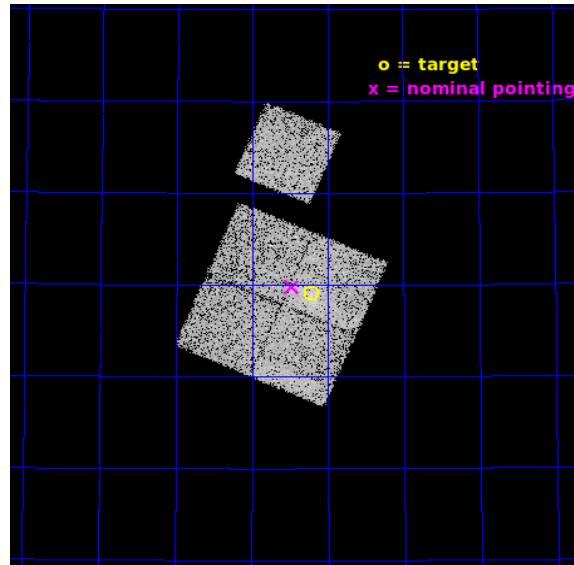
L2 Processing Date : Oct 27 2020

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1 Front

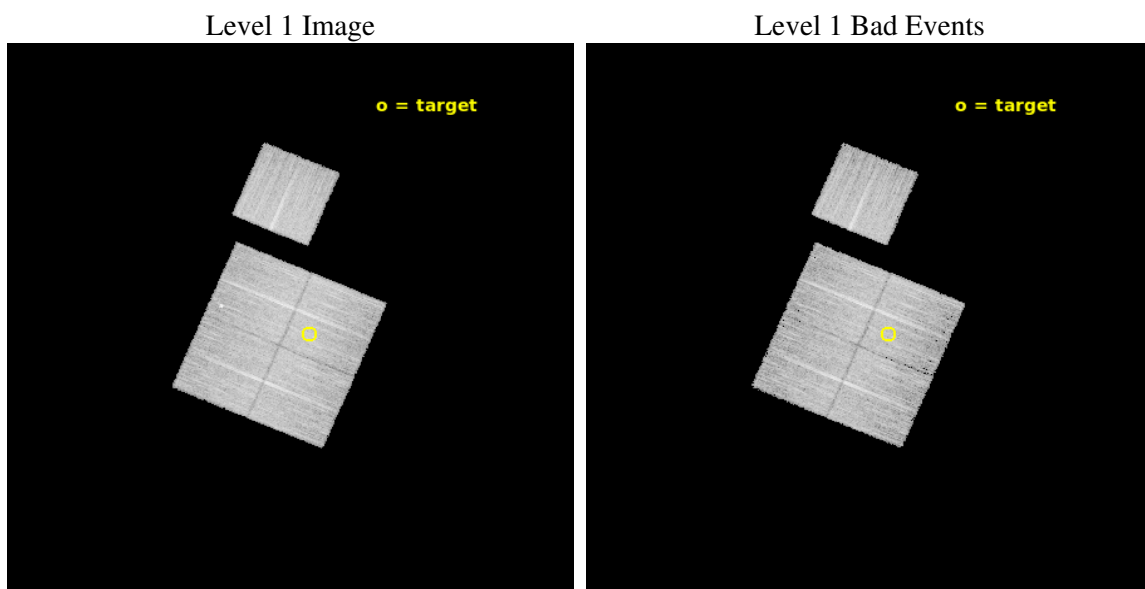
seq_num	801725	Sequence number
obs_id	20511	Observation id
title	Enabling precision cosmology with optically selected galaxy clusters	
observer	Roger Morris	Principal investigator
object	CIG J104513+580833	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	161.302917	Observer's specified target RA [deg]
dec_targ	58.151083	Observer's specified target Dec [deg]
ra_nom	161.36898387658	Nominal RA [deg]
dec_nom	58.16355909541	Nominal Dec [deg]
roll_nom	23.072698786423	Nominal Roll [deg]
revision	2	Processing version of data
ontime	11069.740150332	Sum of GTIs [s]
livetime	10925.105845844	Livetime [s]
ontime0	11069.617030382	Sum of GTIs [s]
ontime1	11069.658070326	Sum of GTIs [s]
ontime2	11069.699110389	Sum of GTIs [s]
ontime3	11069.740150332	Sum of GTIs [s]
ontime6	11069.575990319	Sum of GTIs [s]
l2events	40674	Number of level 2 events



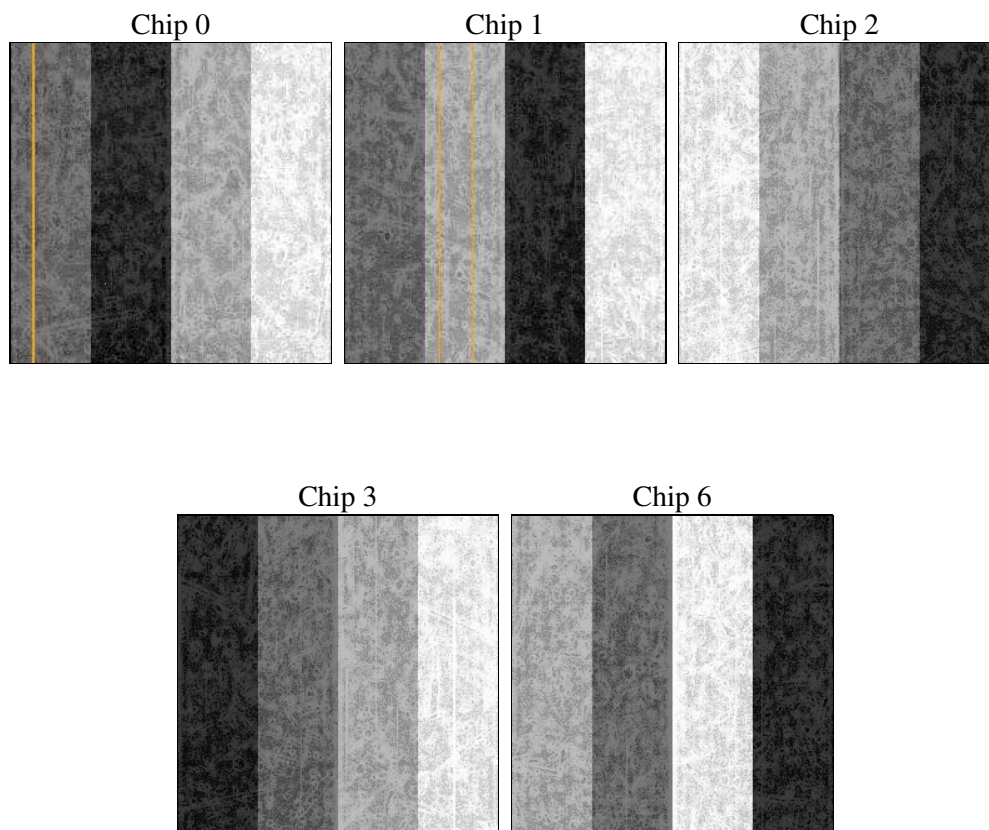
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	11000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	11069.740150332	Sum of GTIs [s]
caldsver	4.9.3	 	ontime0	11069.617030382	Sum of GTIs [s]
date	2020-10-27T20:32:08	Date and time of file creation	ontime1	11069.658070326	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	11069.699110389	Sum of GTIs [s]
			ontime3	11069.740150332	Sum of GTIs [s]
			ontime6	11069.575990319	Sum of GTIs [s]
			l1events	402052	Number of level 1 events

2.1.4 Events

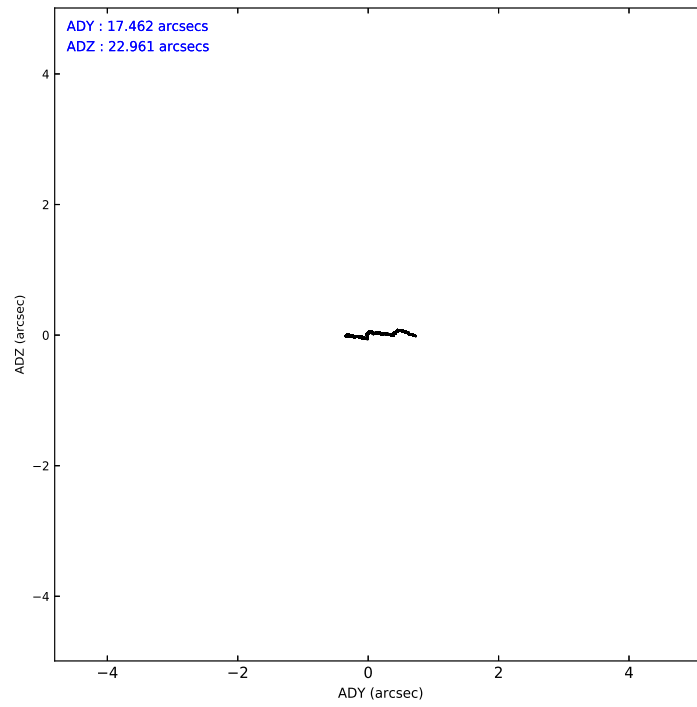
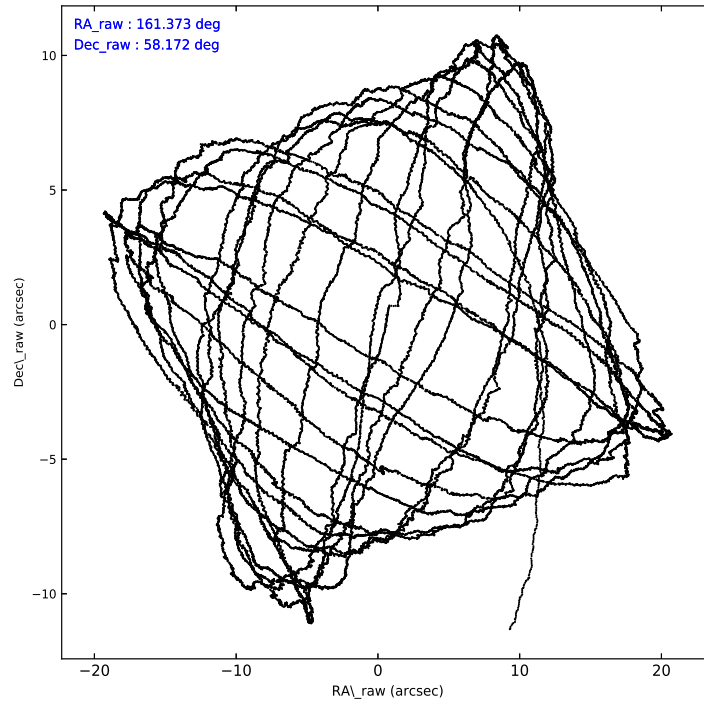
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	75023	78766	82570	81102	84591
rejected events	65779	68350	72766	70879	75325
rejected %	87%	86%	88%	87%	89%

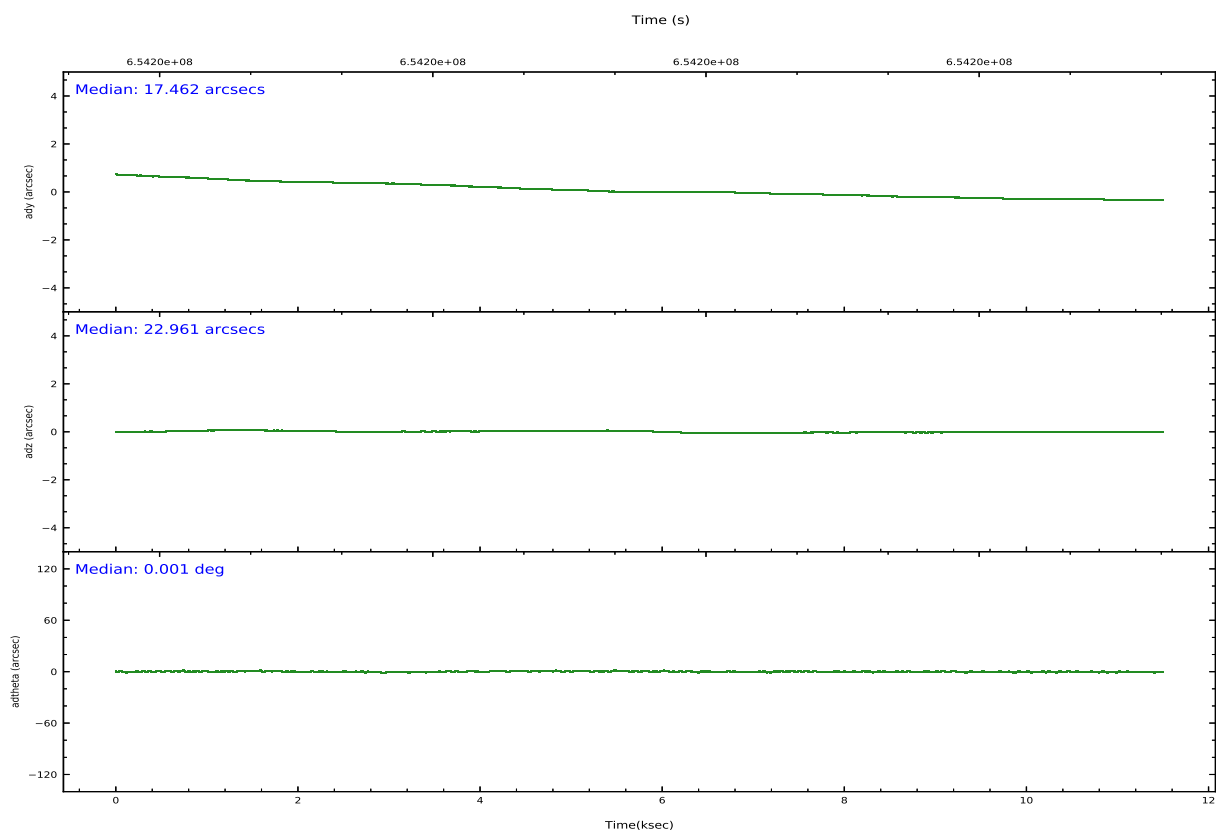
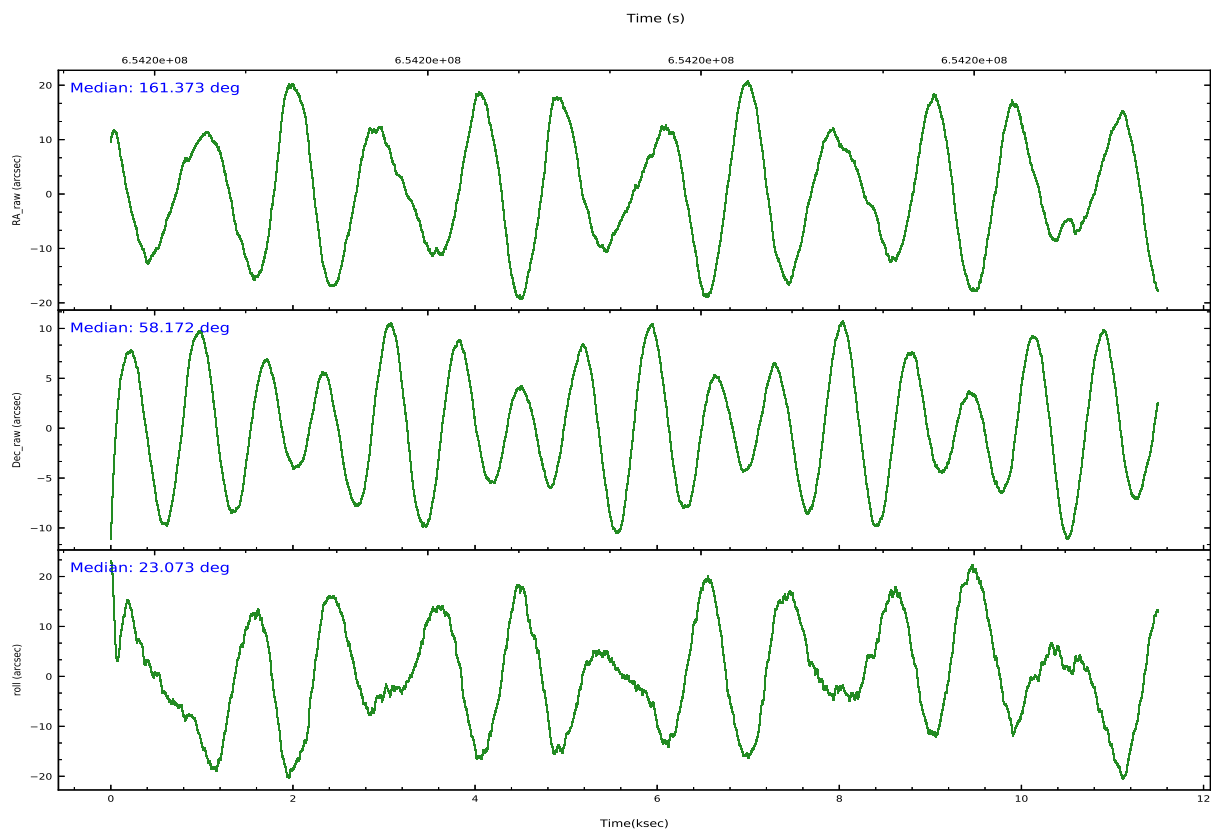
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	3179	3588	3868	4237	3063
	4%	4%	4%	5%	3%
grade 1 events	45	51	53	77	33
	0%	0%	0%	0%	0%
grade 2 events	2309	2694	2440	2080	2195
	3%	3%	2%	2%	2%
grade 3 events	975	999	877	1006	937
	1%	1%	1%	1%	1%
grade 4 events	867	922	857	961	943
	1%	1%	1%	1%	1%
grade 5 events	3651	3773	3520	4094	3967
	4%	4%	4%	5%	4%
grade 6 events	1921	2218	1769	1944	2133
	2%	2%	2%	2%	2%
grade 7 events	62076	64521	69186	66703	71320
	82%	81%	83%	82%	84%

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	161.341743	161.36898387658	CCD I2 on	Y	Y
[deg] Pointing Dec	58.149468	58.16355909541	CCD I3 on	Y	Y
[deg] Pointing Roll	22.898198	23.072698786423	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	-228.472463	-228.4783457680588	CCD S3 on	N	N
[mm] SIM translation stage offset	-5.12	-5.114107234870914	CCD S4 on	N	N
[s] Observation start time (MET)	654196021.184000	654194921.12658	CCD S5 on	N	N
Observation start date	2018-09-24T17:05:52	2018-09-24T16:48:41	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	654207021.184000	654208034.46486	On-chip summing requested	N	N
Observation end date	2018-09-24T20:09:12	2018-09-24T20:27:14	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



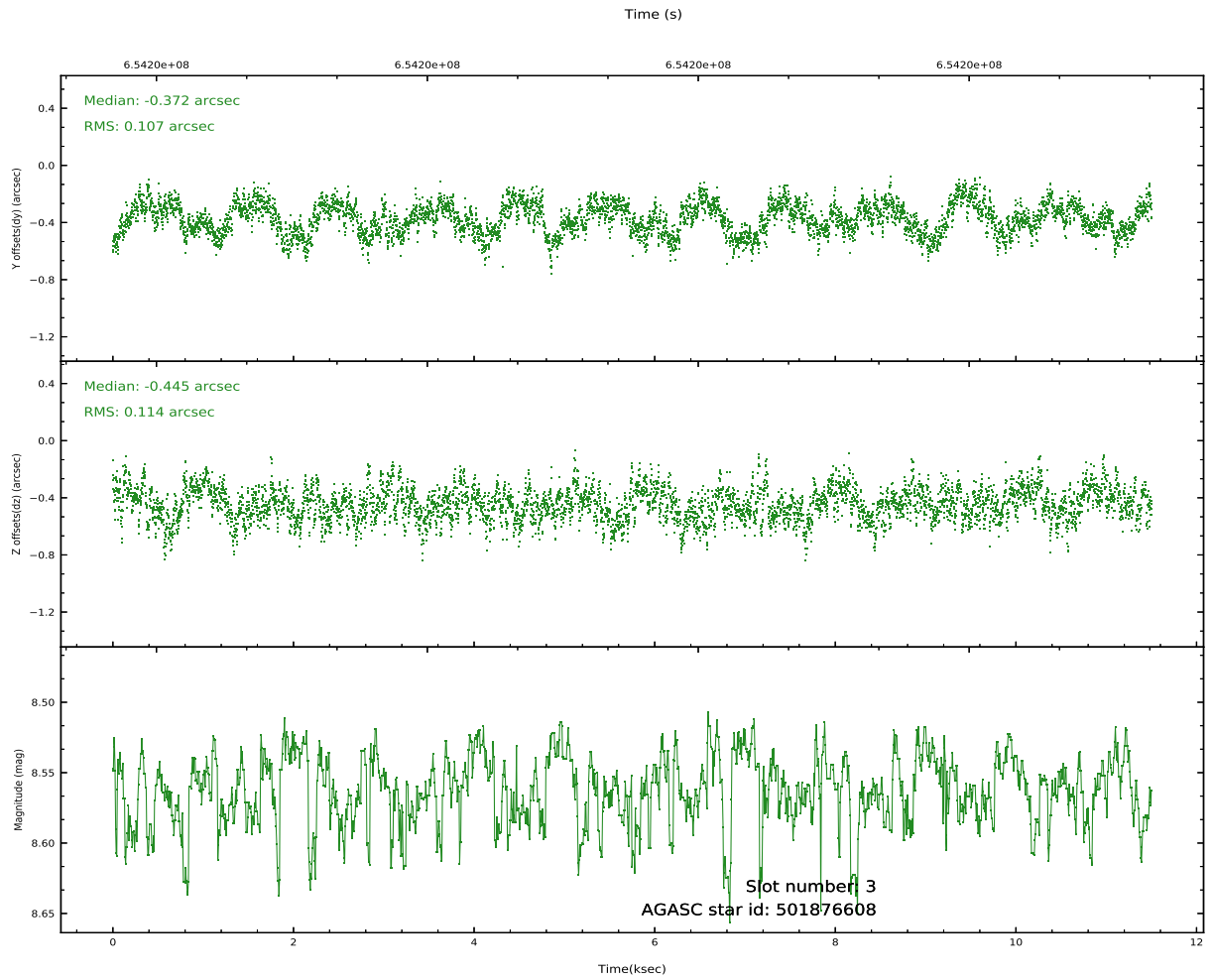
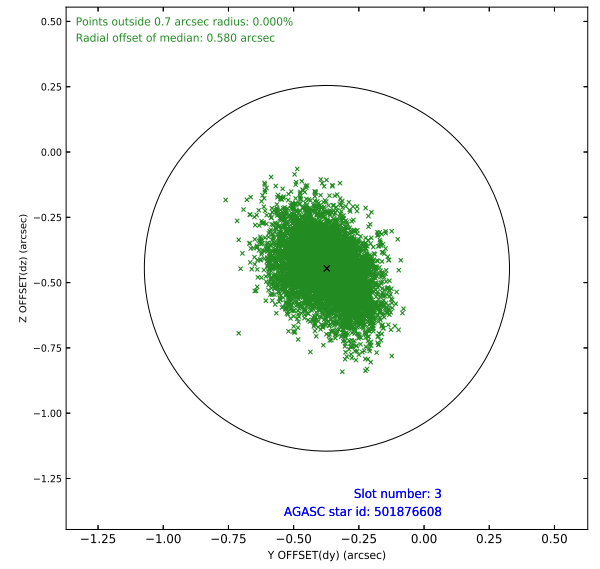
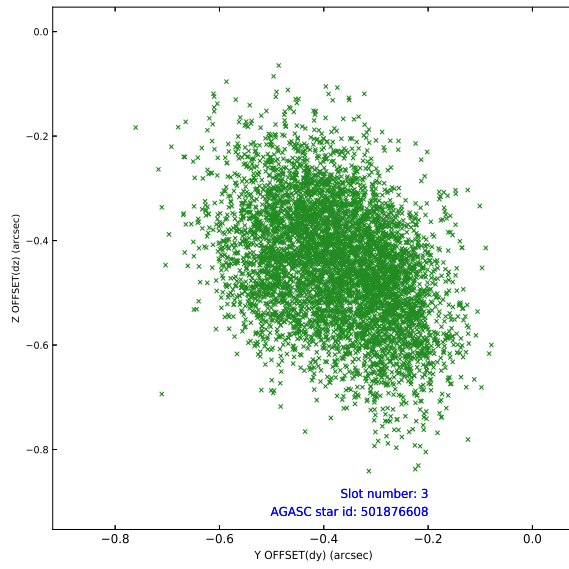


Slot Statistics

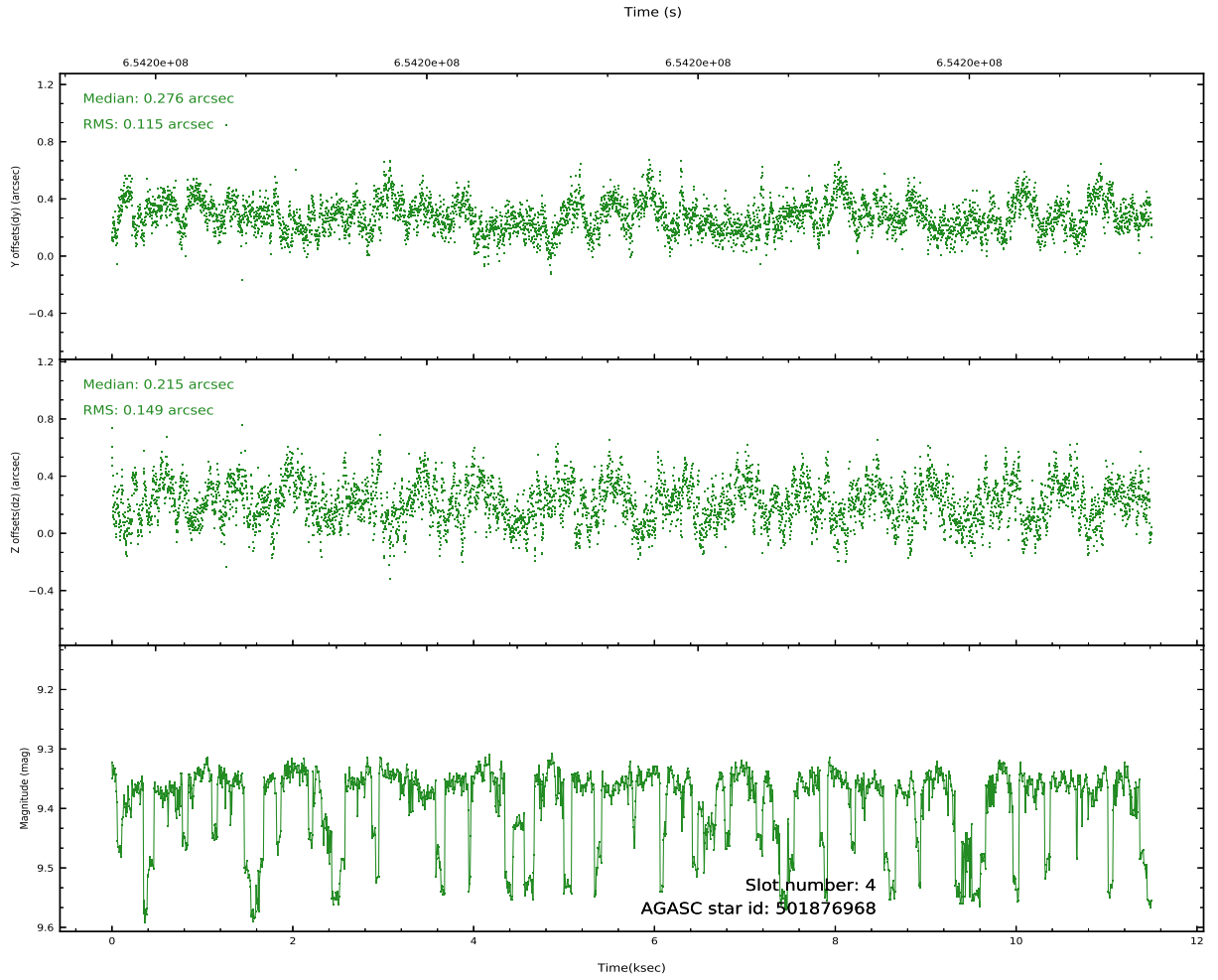
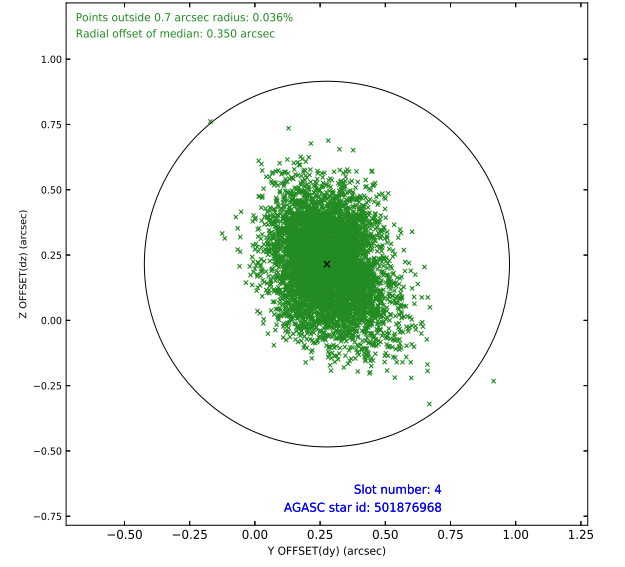
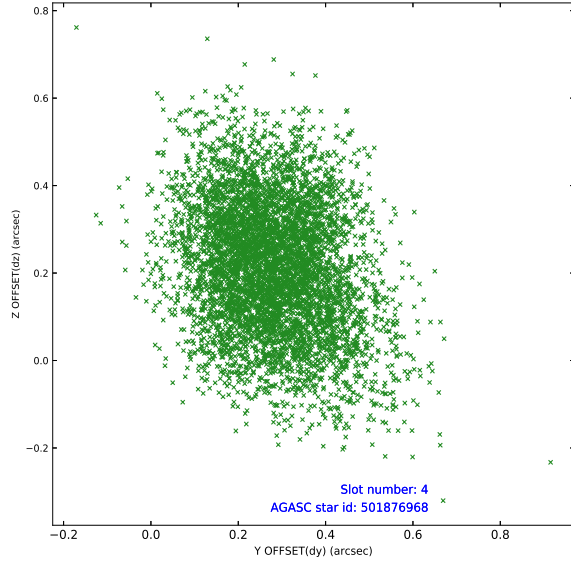
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.13	2806	1.000	0.242	-0.147	0.008	0.015	0.000000	0.000000	921.94	-951
1	FID		ACIS-I-5	7.11	2805	1.000	-0.328	0.211	0.010	0.016	0.000000	0.000000	-1826.41	945
2	FID		ACIS-I-6	7.12	2806	1.000	-0.006	0.007	0.009	0.016	0.000000	0.000000	386.87	1590
3	GUIDE	used	501876608	8.56	5609	1.000	-0.372	-0.445	0.166	0.267	161.204341	58.717464	558.00	1983
4	GUIDE	used	501876968	9.37	5604	1.000	0.276	0.215	0.200	0.327	161.243582	57.954681	-444.90	-572
5	GUIDE	used	501882320	9.07	5607	1.000	0.160	0.194	0.155	0.264	160.706735	57.955502	-1386.76	-166
6	GUIDE	used	501882776	8.22	5605	1.000	0.058	0.187	0.189	0.314	160.771087	57.955821	-1273.19	-214
7	GUIDE	used	501876488	9.61	5593	1.000	-0.127	-0.133	0.301	0.489	161.777446	58.709037	1534.67	1540

2.4 Star Slots

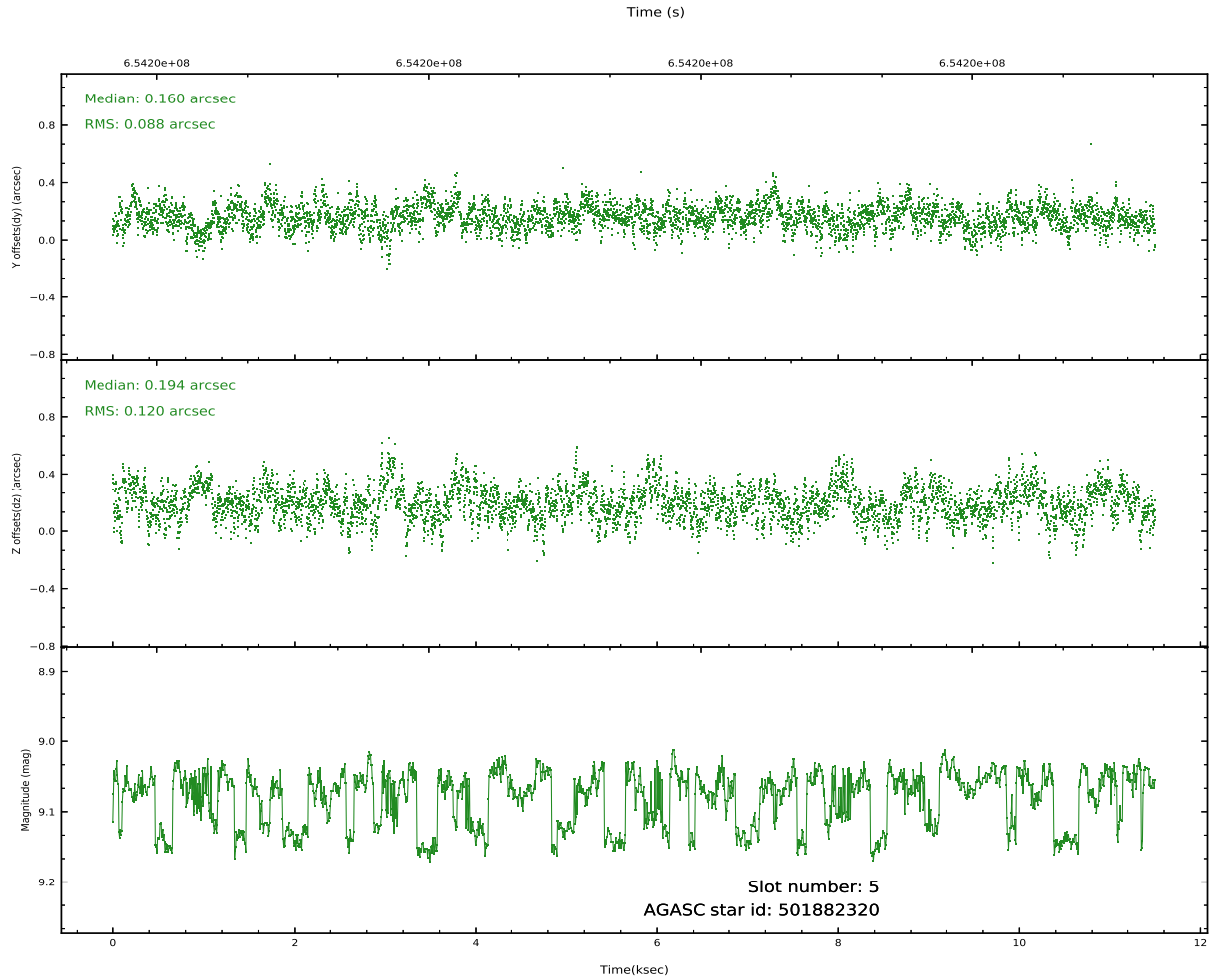
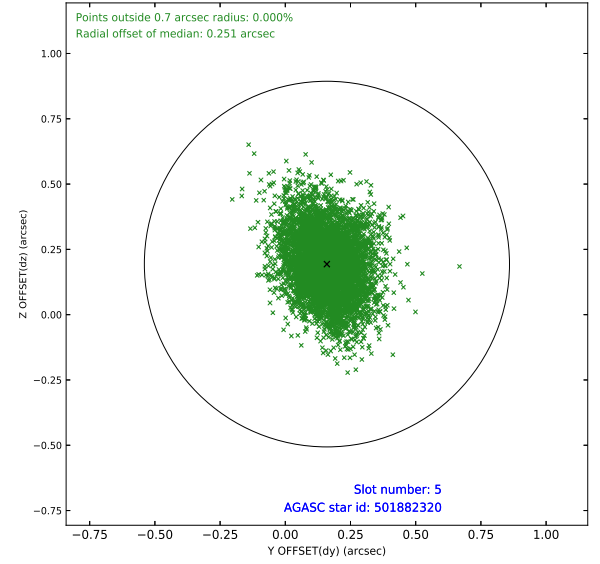
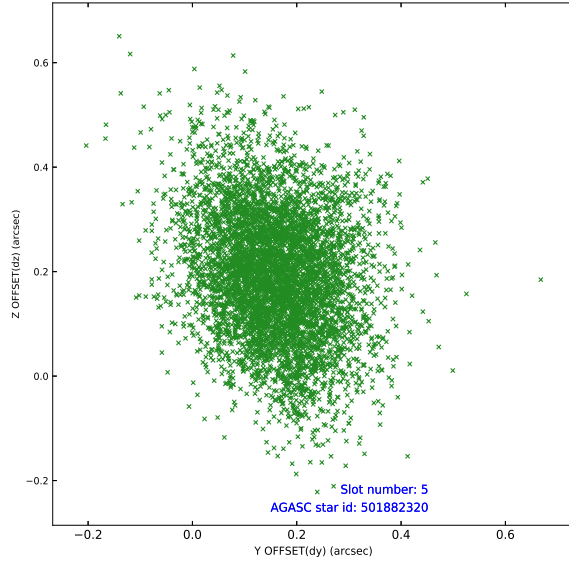
2.4.1 Slot 3



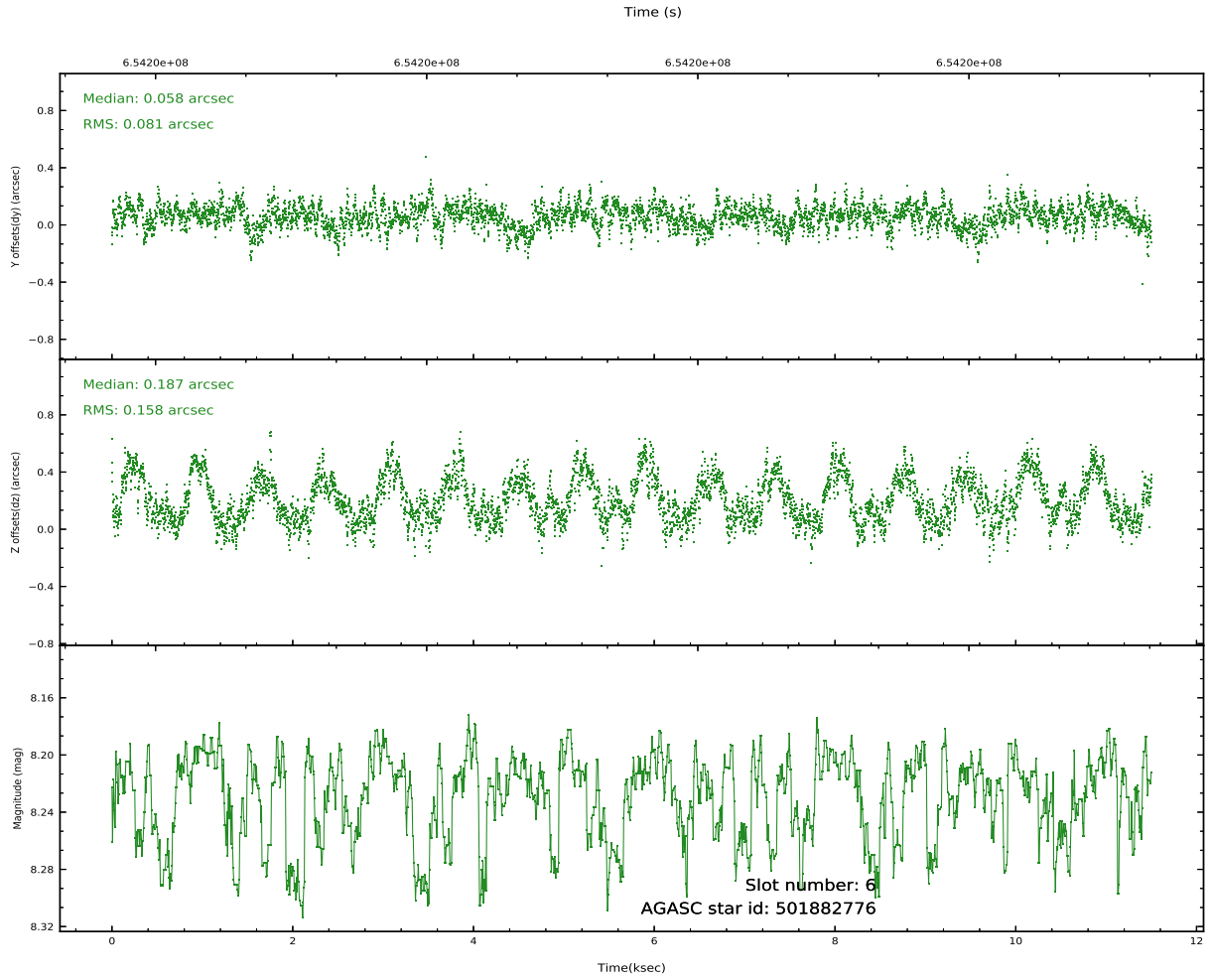
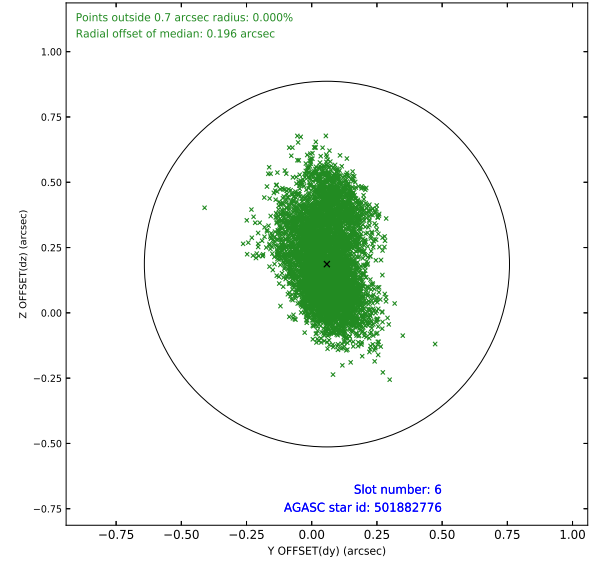
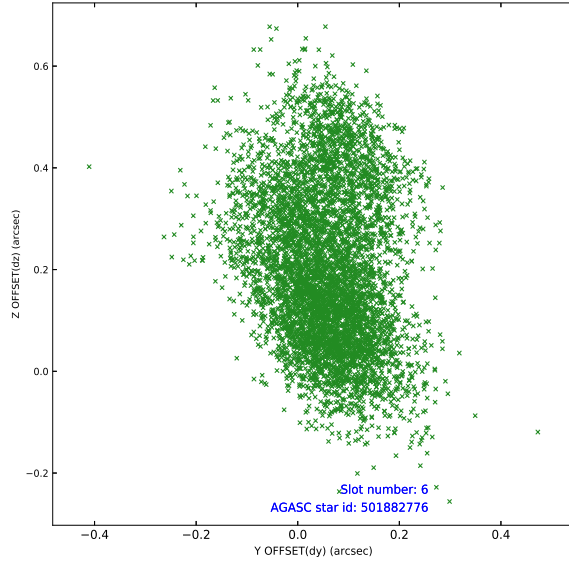
2.4.2 Slot 4



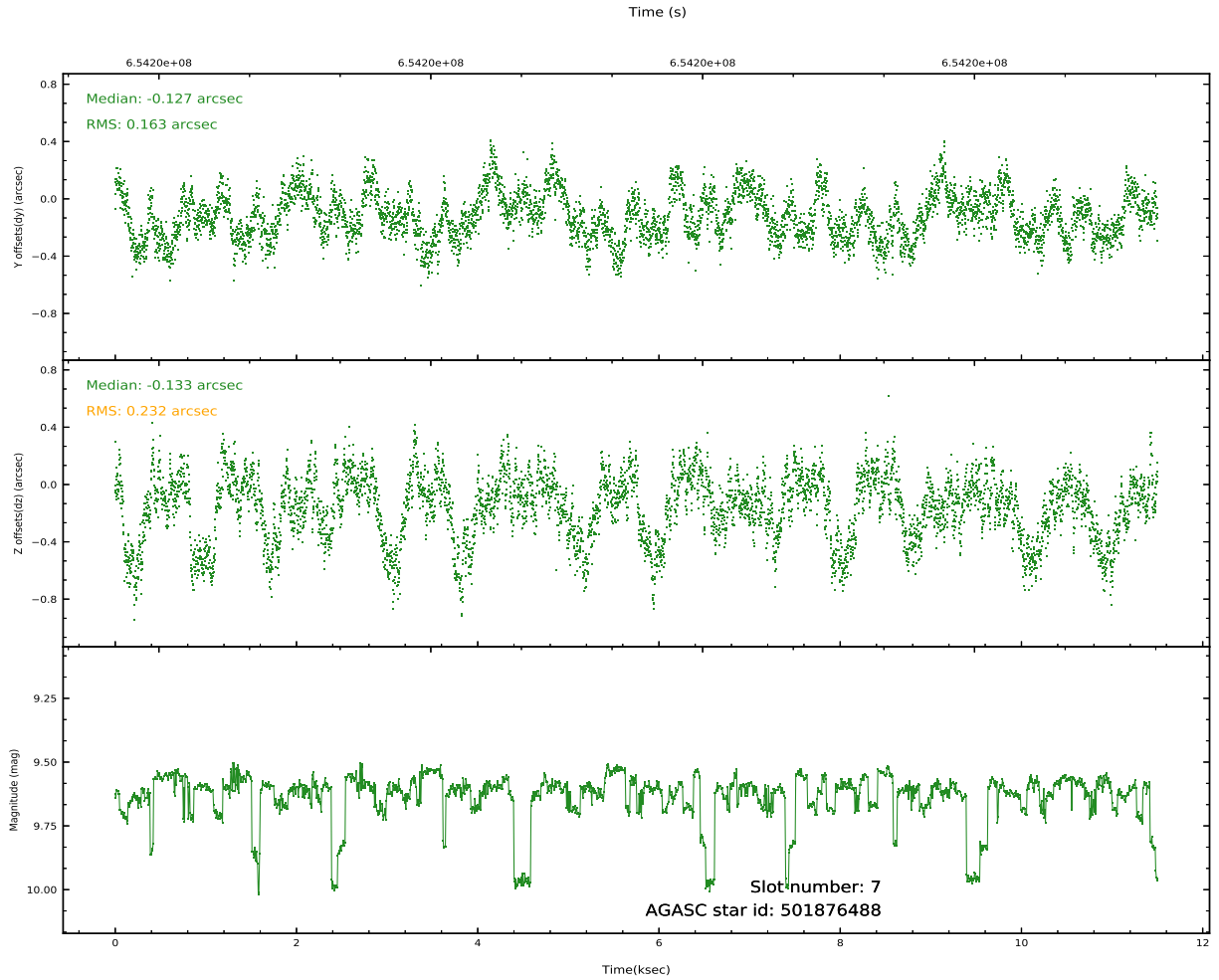
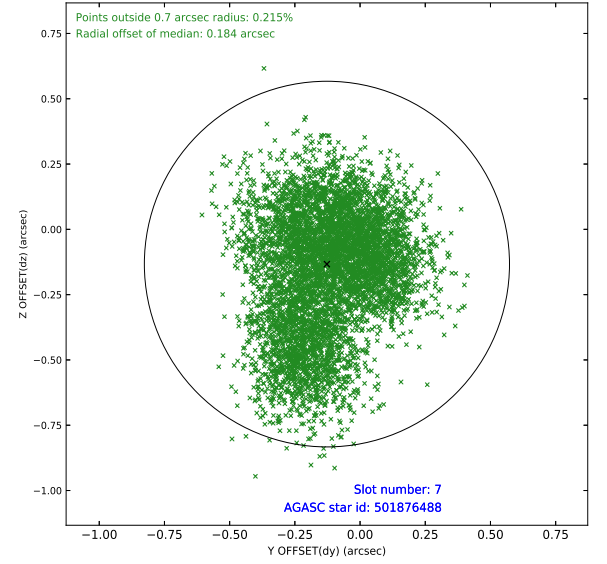
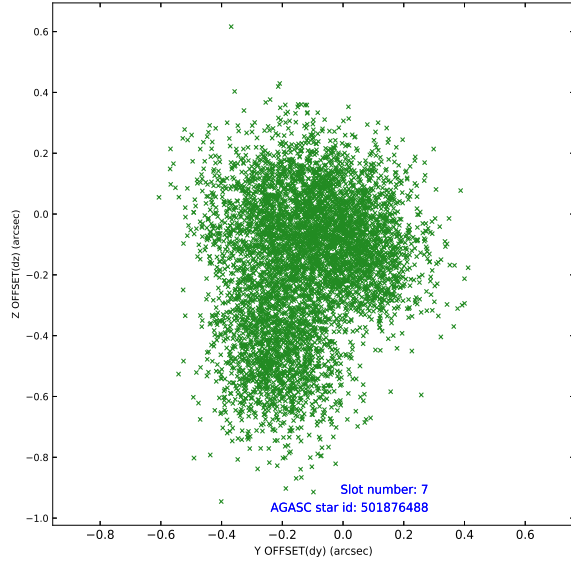
2.4.3 Slot 5



2.4.4 Slot 6

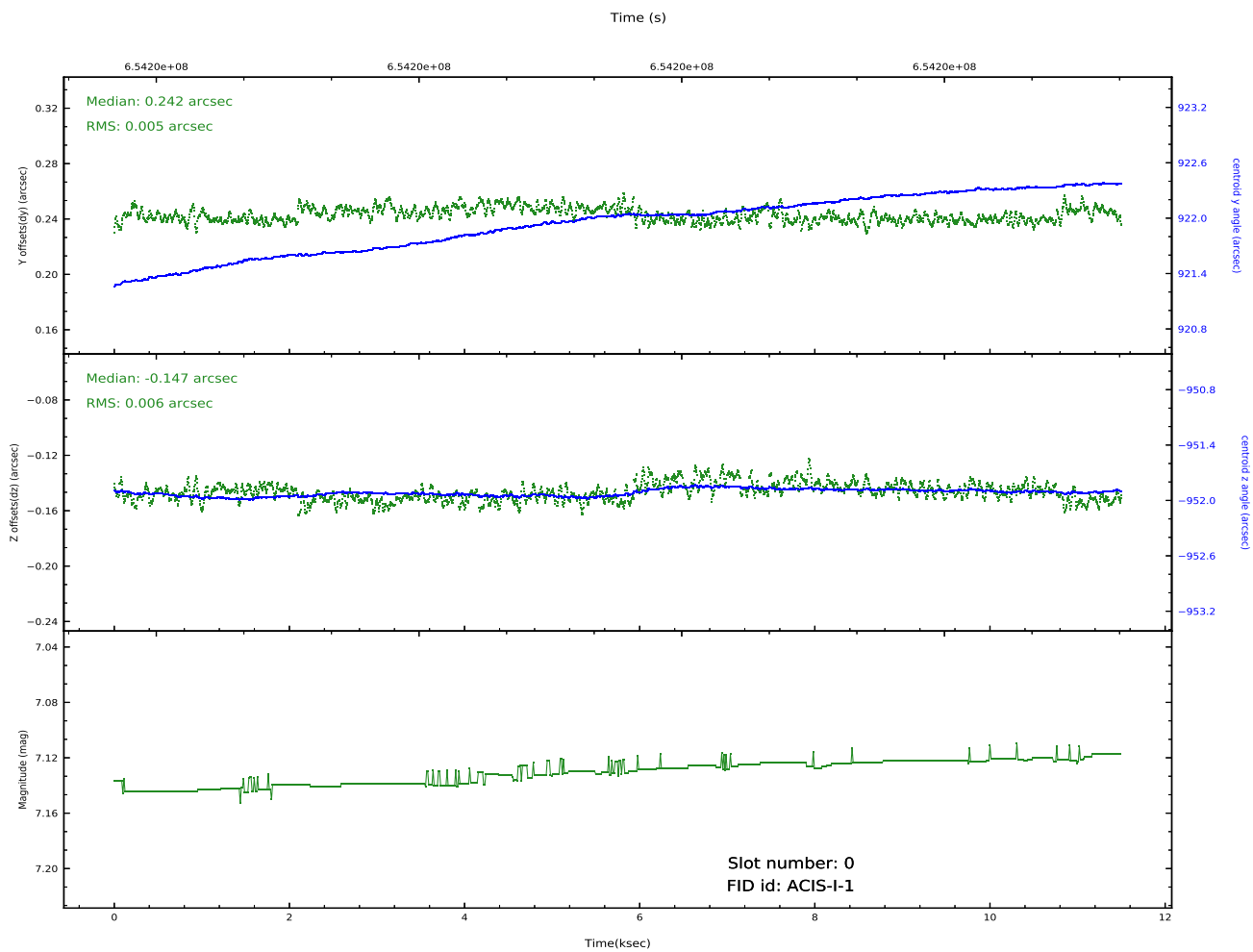
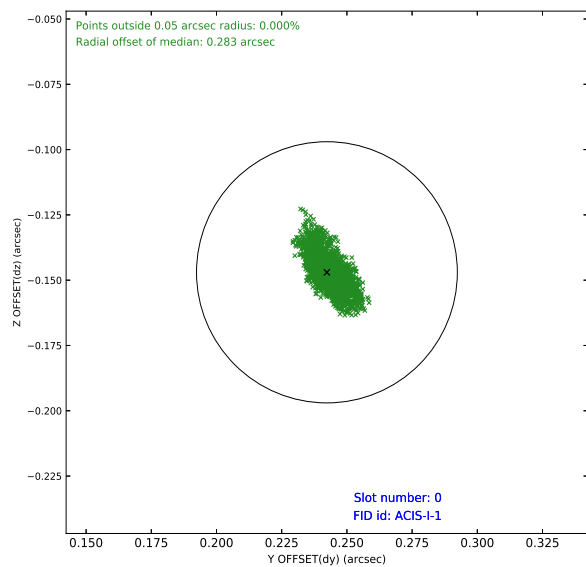
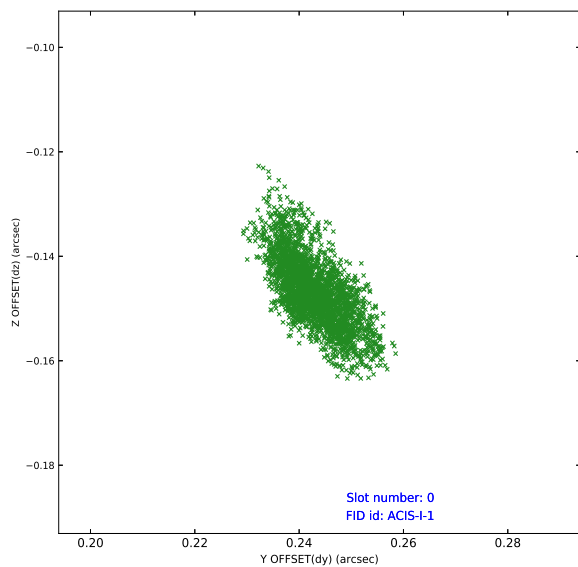


2.4.5 Slot 7

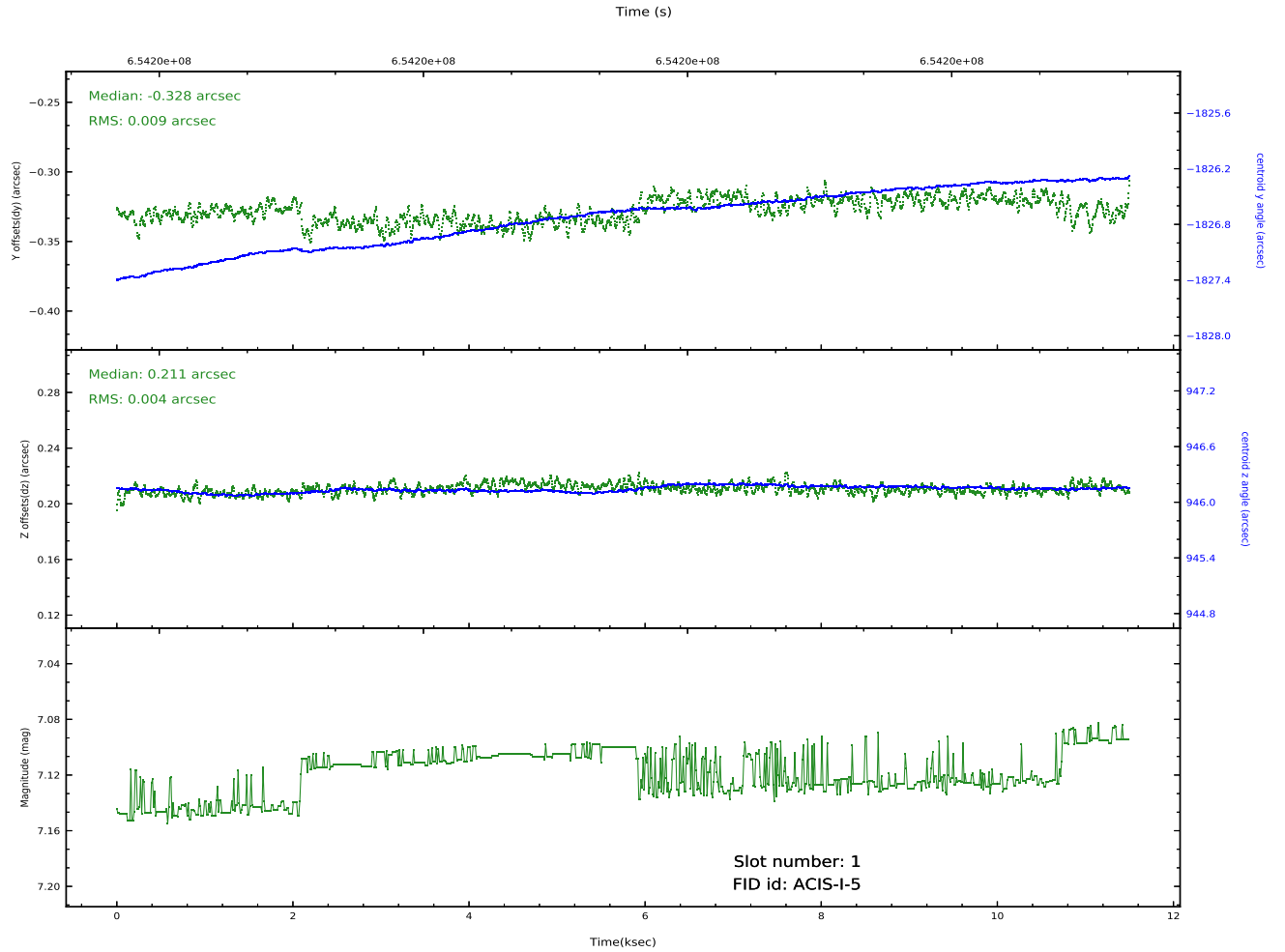
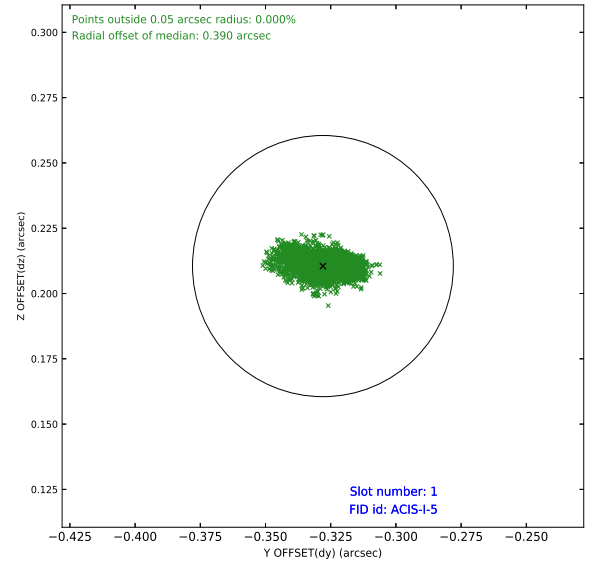
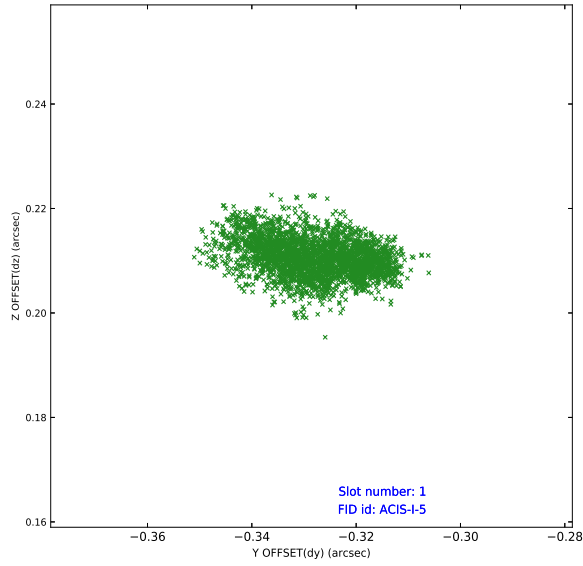


2.5 FID Slots

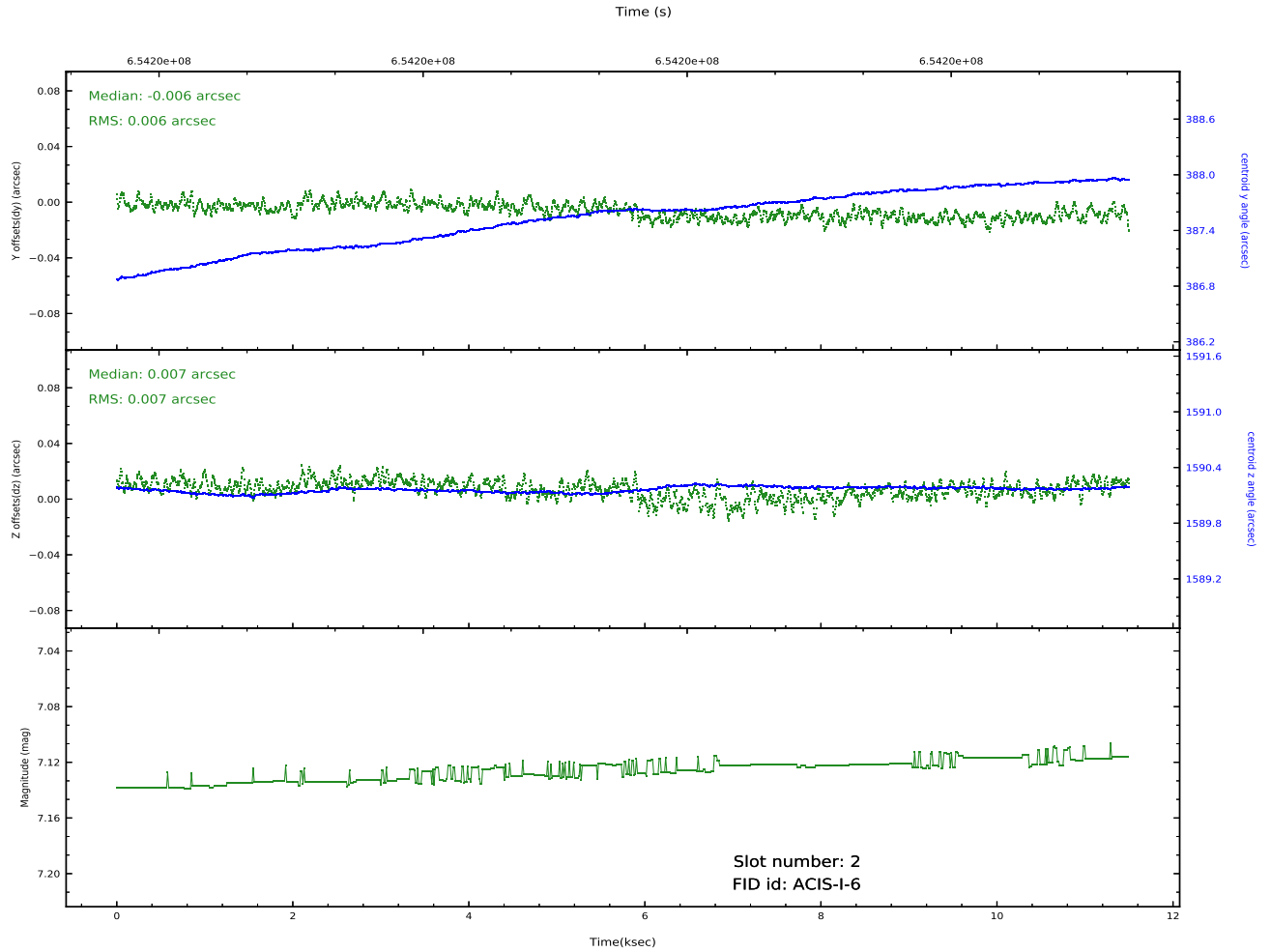
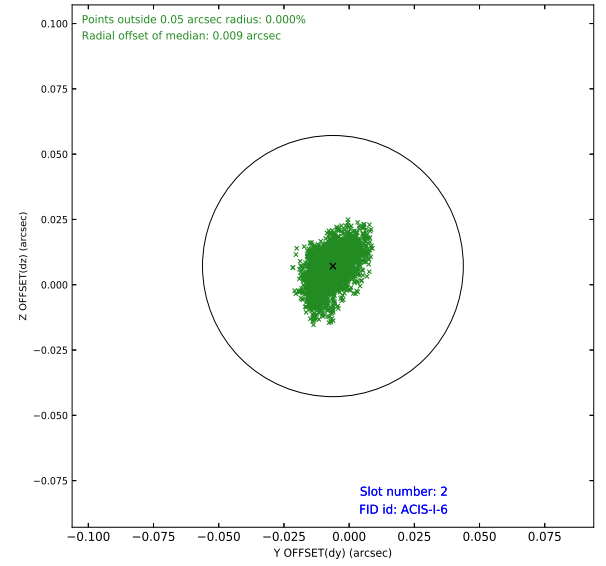
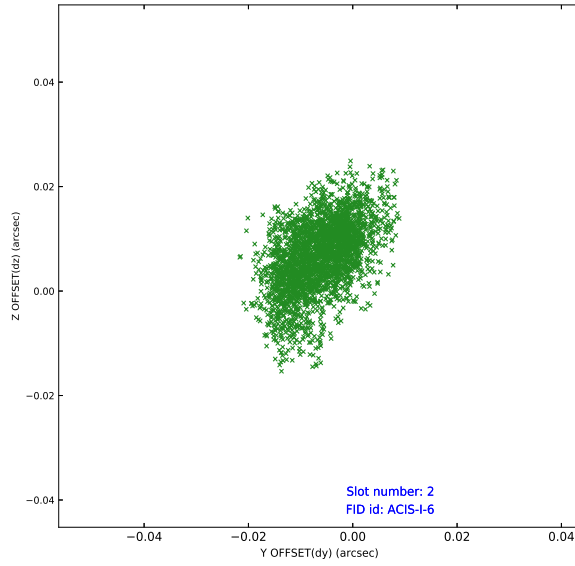
2.5.1 Slot 0



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)	2020.10.30
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	11.069740151644

A.2 Comments