

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20285 - L2 Version 2
Chandra X-Ray Center

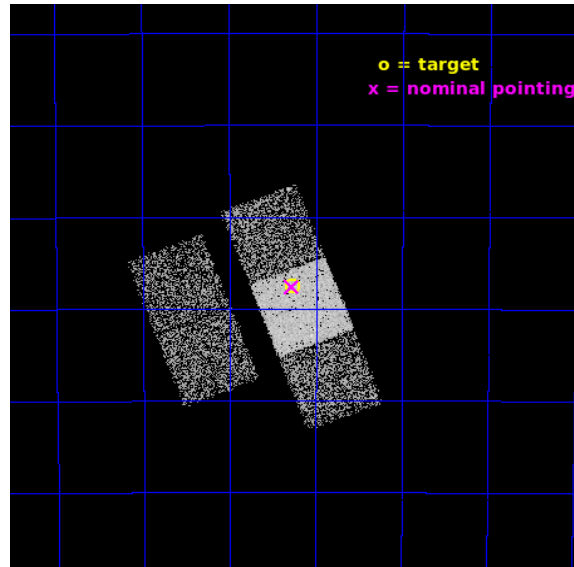
L2 Processing Date : Oct 24 2020

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

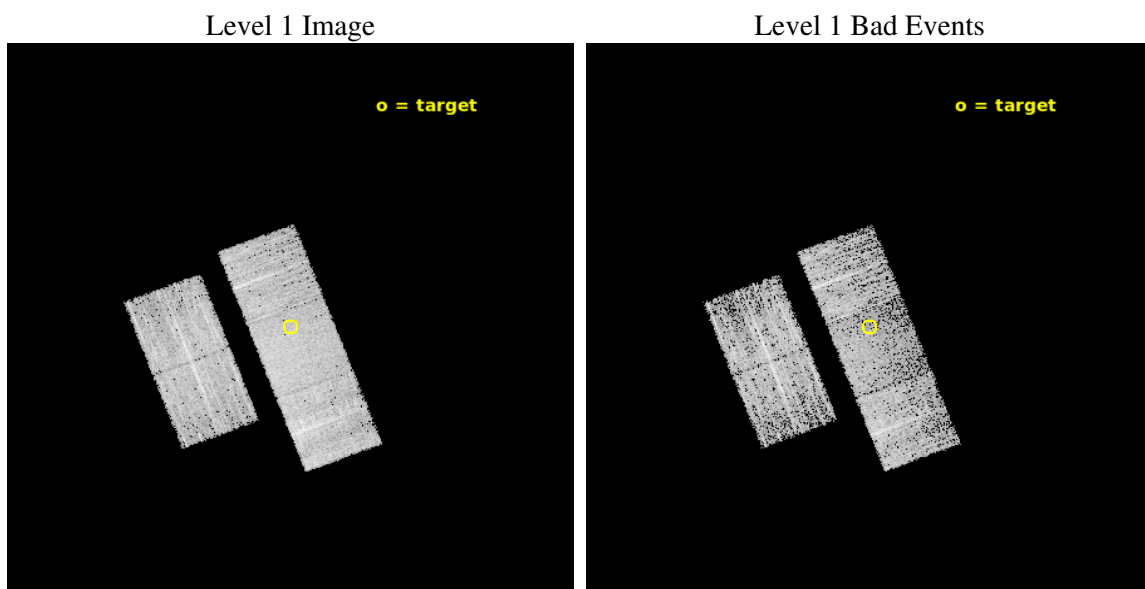
seq_num	502984	Sequence number
obs_id	20285	Observation id
title	Where Have All the Central Compact Objects Gone?	Proposal title
observer	Eric Gotthelf	Principal investigator
object	PSR J1605-5257	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	241.317917	Observer's specified target RA [deg]
dec_targ	-52.959444	Observer's specified target Dec [deg]
ra_nom	241.31919894151	Nominal RA [deg]
dec_nom	-52.960162399198	Nominal Dec [deg]
roll_nom	68.955080060679	Nominal Roll [deg]
revision	2	Processing version of data
ontime	3543.3000273705	Sum of GTIs [s]
livetime	3497.0042039733	Livetime [s]
ontime2	3543.3000273705	Sum of GTIs [s]
ontime3	3543.3000273705	Sum of GTIs [s]
ontime6	3543.3000273705	Sum of GTIs [s]
ontime7	3543.3000273705	Sum of GTIs [s]
ontime8	3543.3000273705	Sum of GTIs [s]
l2events	25280	Number of level 2 events



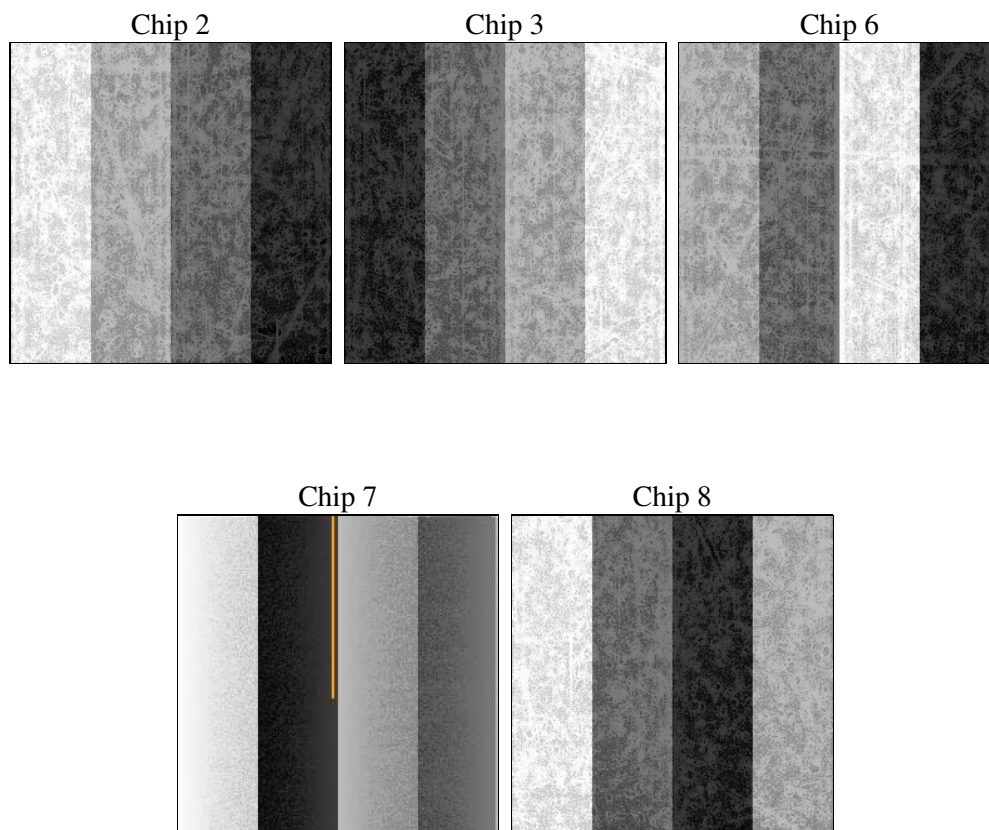
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3500.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	3543.3000273705	Sum of GTIs [s]
caldsver	4.9.3	 	ontime2	3543.3000273705	Sum of GTIs [s]
date	2020-10-25T03:26:44	Date and time of file creation	ontime3	3543.3000273705	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	3543.3000273705	Sum of GTIs [s]
			ontime7	3543.3000273705	Sum of GTIs [s]
			ontime8	3543.3000273705	Sum of GTIs [s]
			l1events	157320	Number of level 1 events

2.1.4 Events

	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	29367	28035	28574	35071	36273
rejected events	26554	25184	25390	19988	27198
rejected %	90%	89%	88%	56%	74%

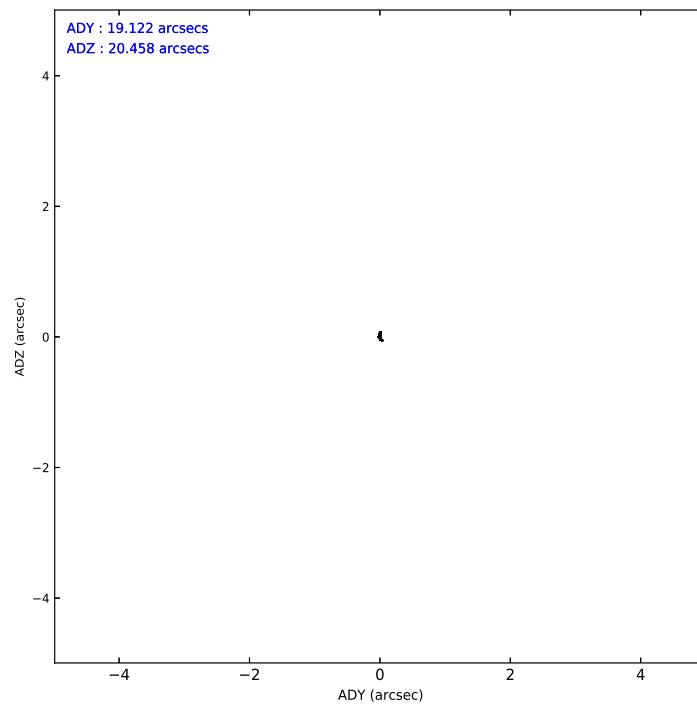
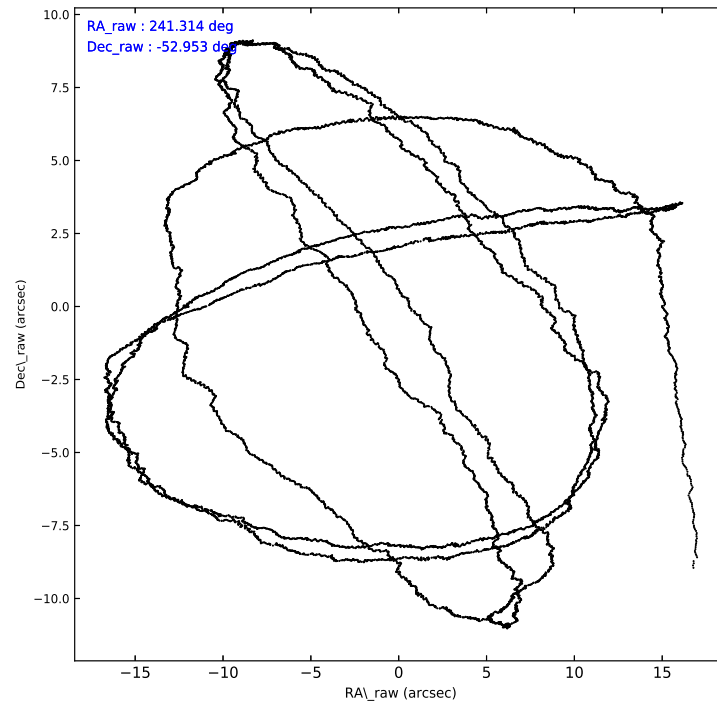
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	1031	987	961	1233	2743
	3%	3%	3%	3%	7%
grade 1 events	11	10	14	63	19
	0%	0%	0%	0%	0%
grade 2 events	632	614	937	3162	2251
	2%	2%	3%	9%	6%
grade 3 events	288	280	206	1191	908
	0%	0%	0%	3%	2%
grade 4 events	272	304	235	1202	824
	0%	1%	0%	3%	2%
grade 5 events	952	1214	1111	3404	1825
	3%	4%	3%	9%	5%
grade 6 events	594	670	848	8317	2375
	2%	2%	2%	23%	6%
grade 7 events	25587	23956	24262	16499	25328
	87%	85%	84%	47%	69%

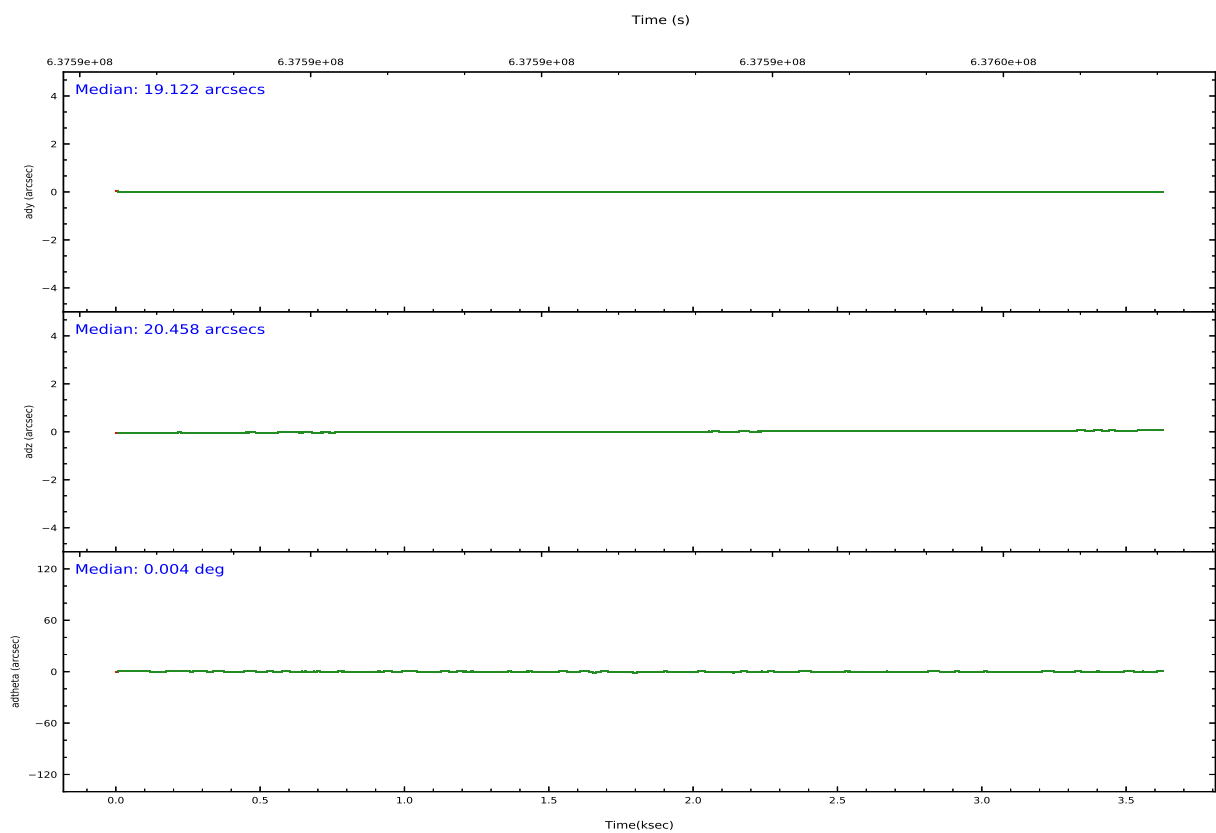
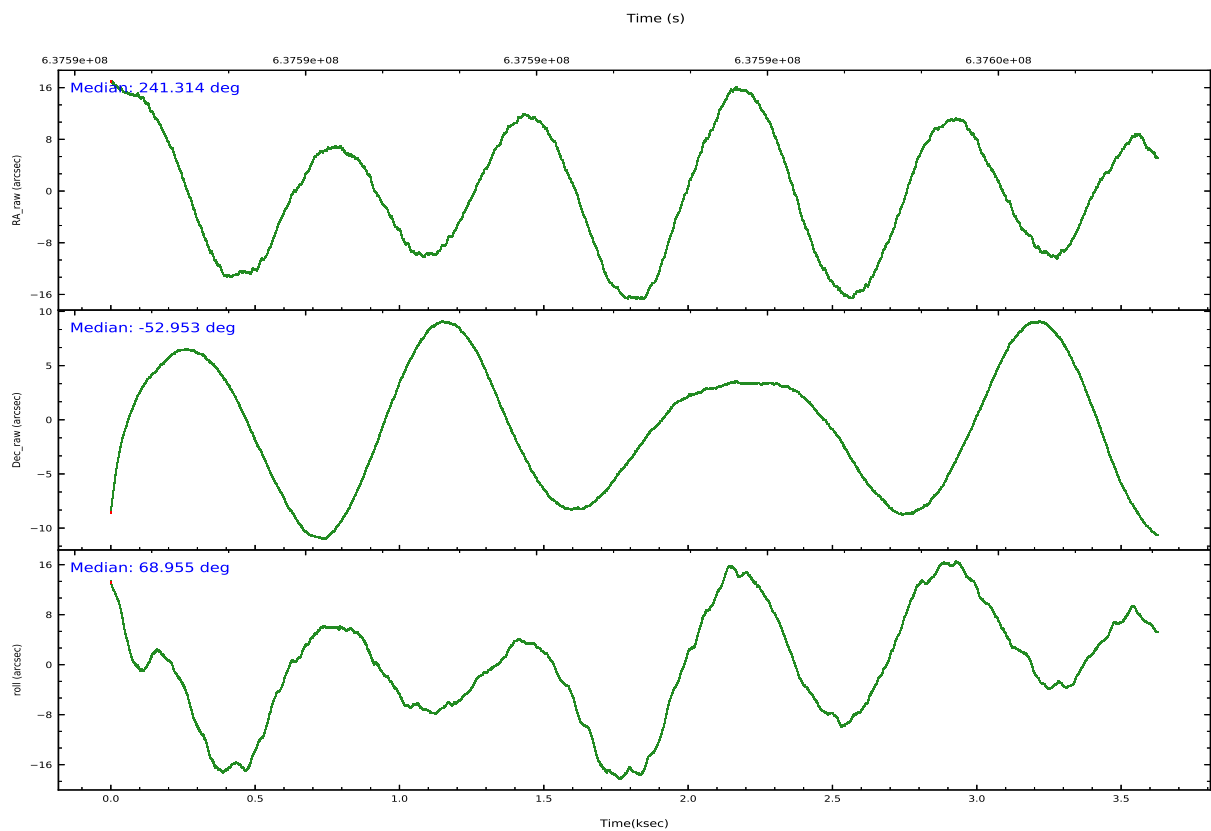
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-23678	ACIS-23678
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	241.320964	241.31919894151
[deg] Pointing Dec	-52.980016	-52.960162399198
[deg] Pointing Roll	68.815217	68.95508006067899
[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)	637592253.184000	637590859.0437599
Observation start date	2018-03-16T12:56:24	2018-03-16T12:34:19
[s] Observation end time (MET)	637595753.184000	637596844.53162
Observation end date	2018-03-16T13:54:44	2018-03-16T14:14:04
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar version number	8	8
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
CCD I0 on	N	N
CCD I1 on	N	N
CCD I2 on	O1	Y
CCD I3 on	O2	Y
CCD S0 on	N	N
CCD S1 on	N	N
CCD S2 on	Y	Y
CCD S3 on	Y	Y
CCD S4 on	Y	Y
CCD S5 on	N	N
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.1

2.3 Aspect



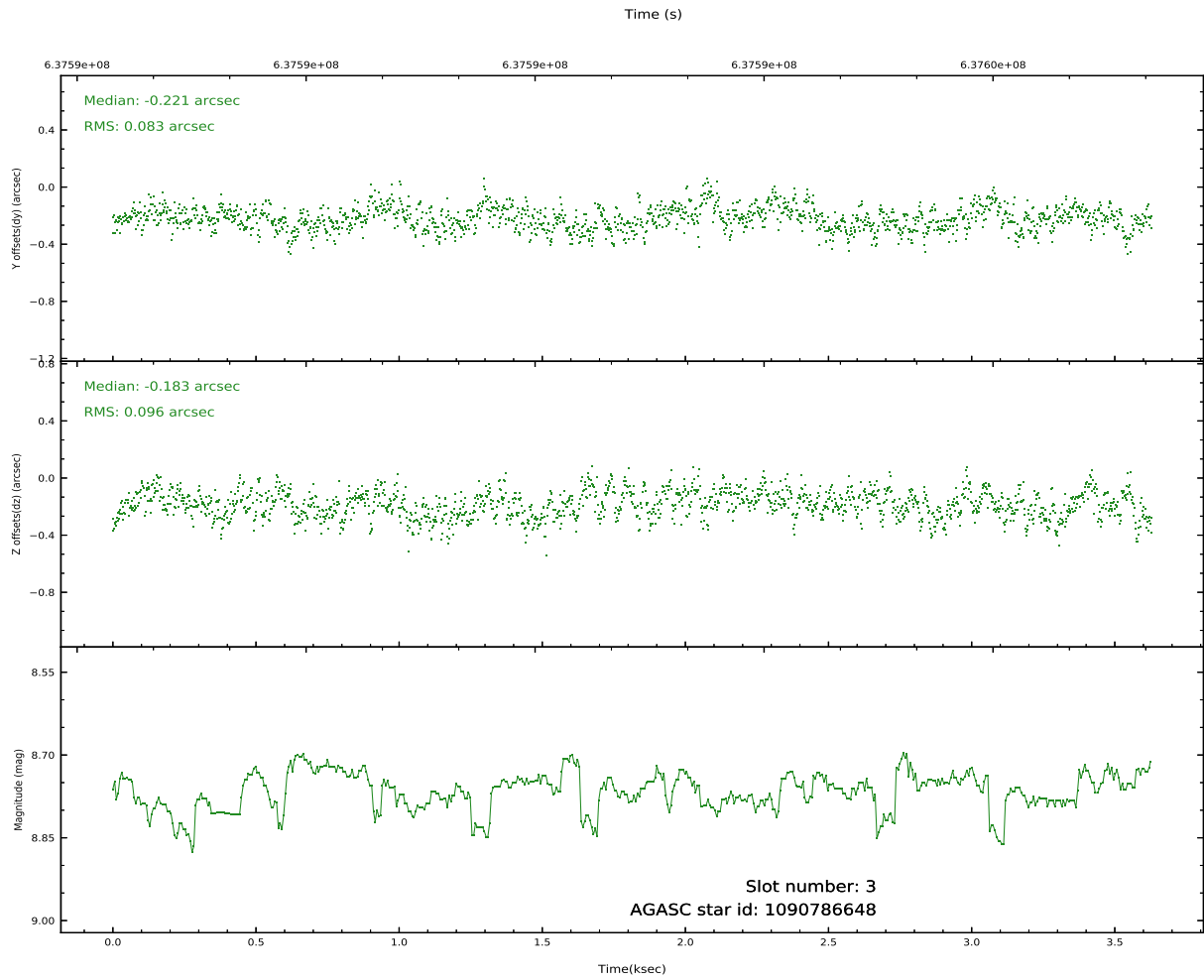
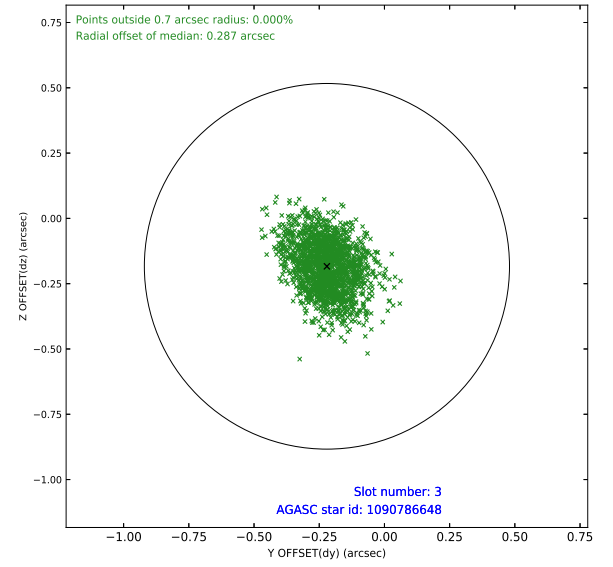
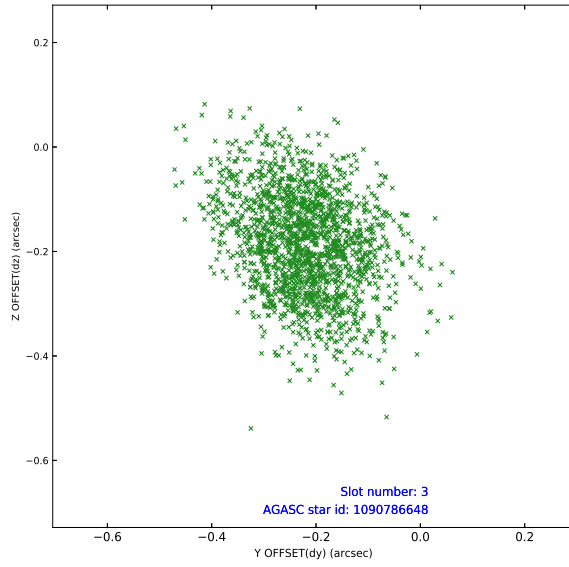


Slot Statistics

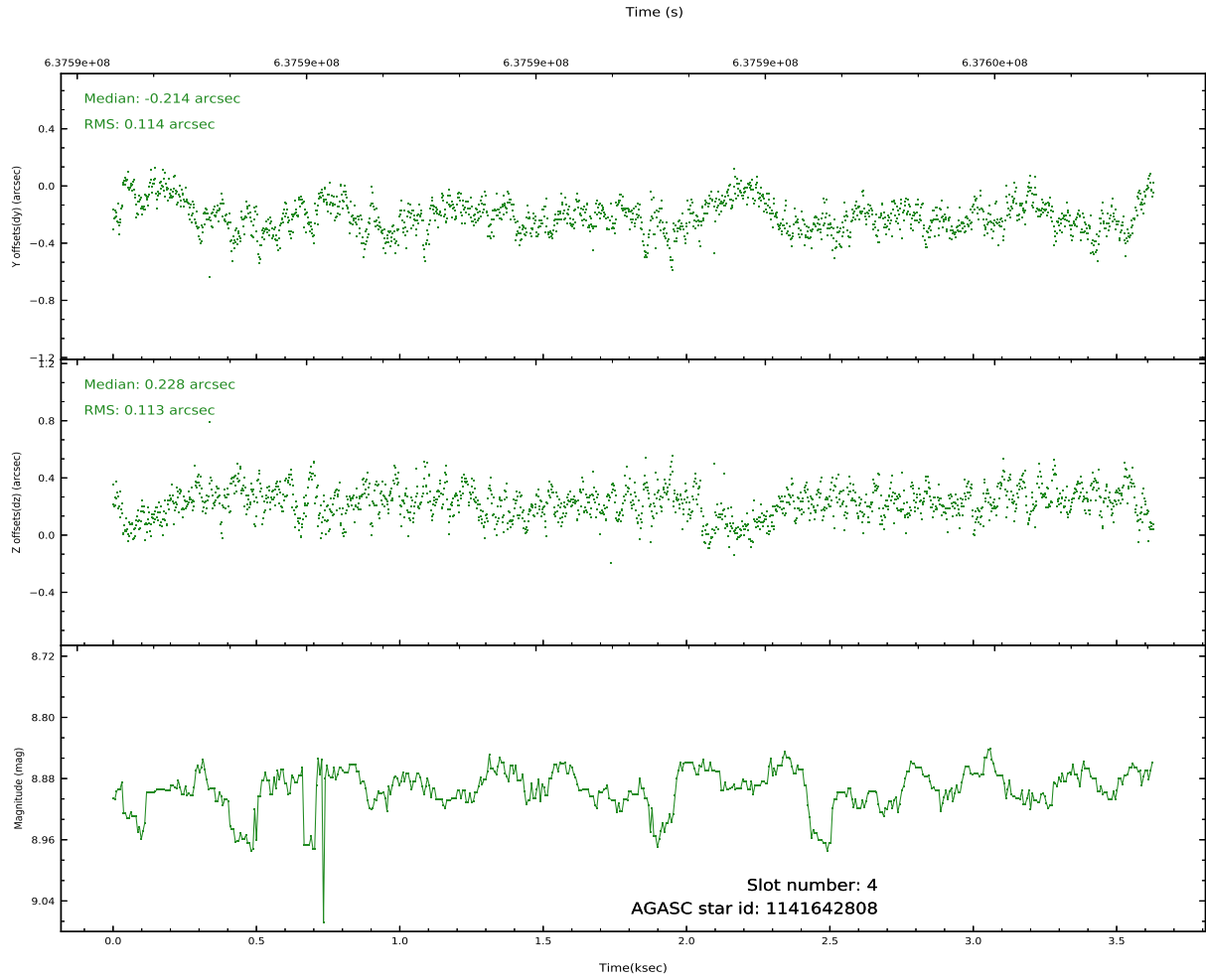
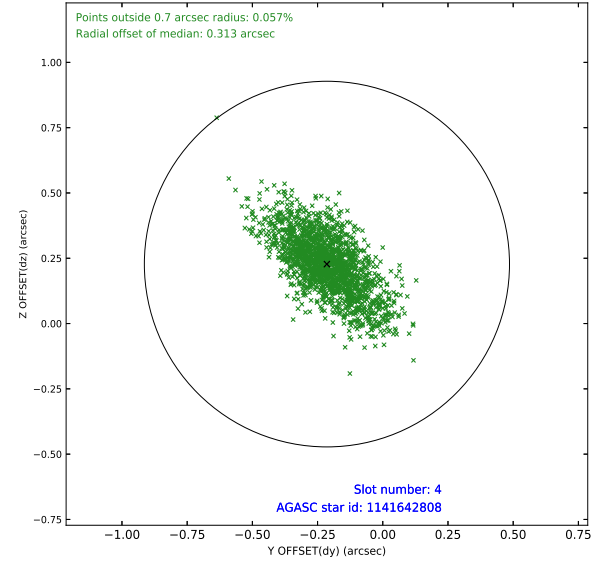
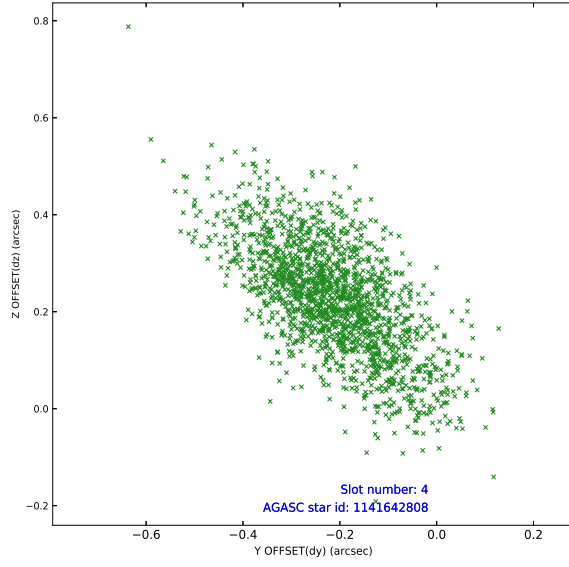
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.17	886	1.000	0.092	-0.114	0.007	0.011	0.000000	0.000000	-772.35	-1742
1	FID		ACIS-S-4	7.29	886	1.000	0.160	-0.013	0.005	0.010	0.000000	0.000000	2140.45	164
2	FID		ACIS-S-5	7.28	886	1.000	-0.282	0.136	0.007	0.010	0.000000	0.000000	-1823.10	160
3	GUIDE	used	1090786648	8.76	1769	1.000	-0.221	-0.183	0.132	0.219	241.384137	-52.469246	1764.21	535
4	GUIDE	used	1141642808	8.89	1767	1.000	-0.214	0.228	0.163	0.300	242.344762	-52.759774	1531.62	-1798
5	GUIDE	used	1141644368	7.95	1770	1.000	0.121	-0.173	0.130	0.229	241.082612	-53.160146	-790.33	244
6	GUIDE	used	1141644528	8.62	1769	1.000	0.229	0.257	0.137	0.226	241.589321	-53.049066	-23.26	-630
7	GUIDE	used	1141646248	8.95	1767	1.000	0.089	-0.120	0.131	0.228	240.187240	-53.159777	-1505.99	2040

2.4 Star Slots

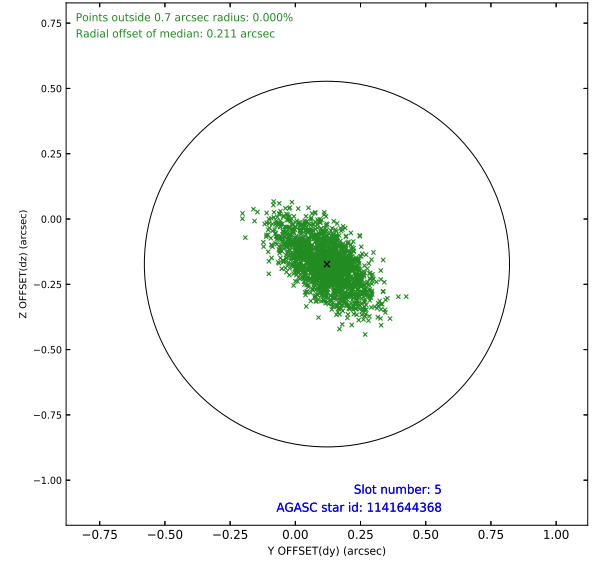
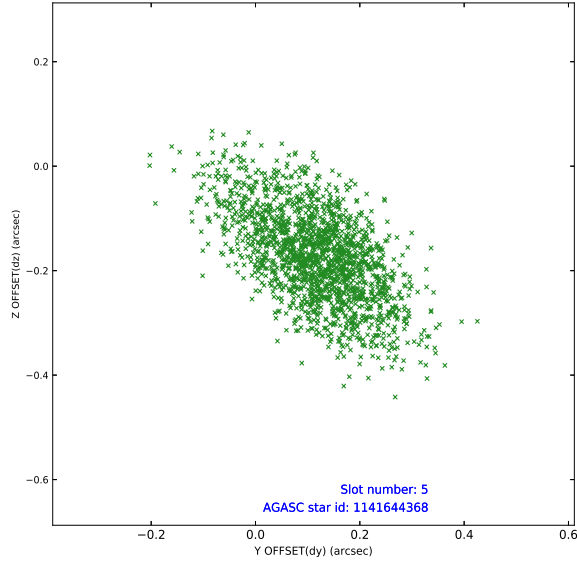
2.4.1 Slot 3



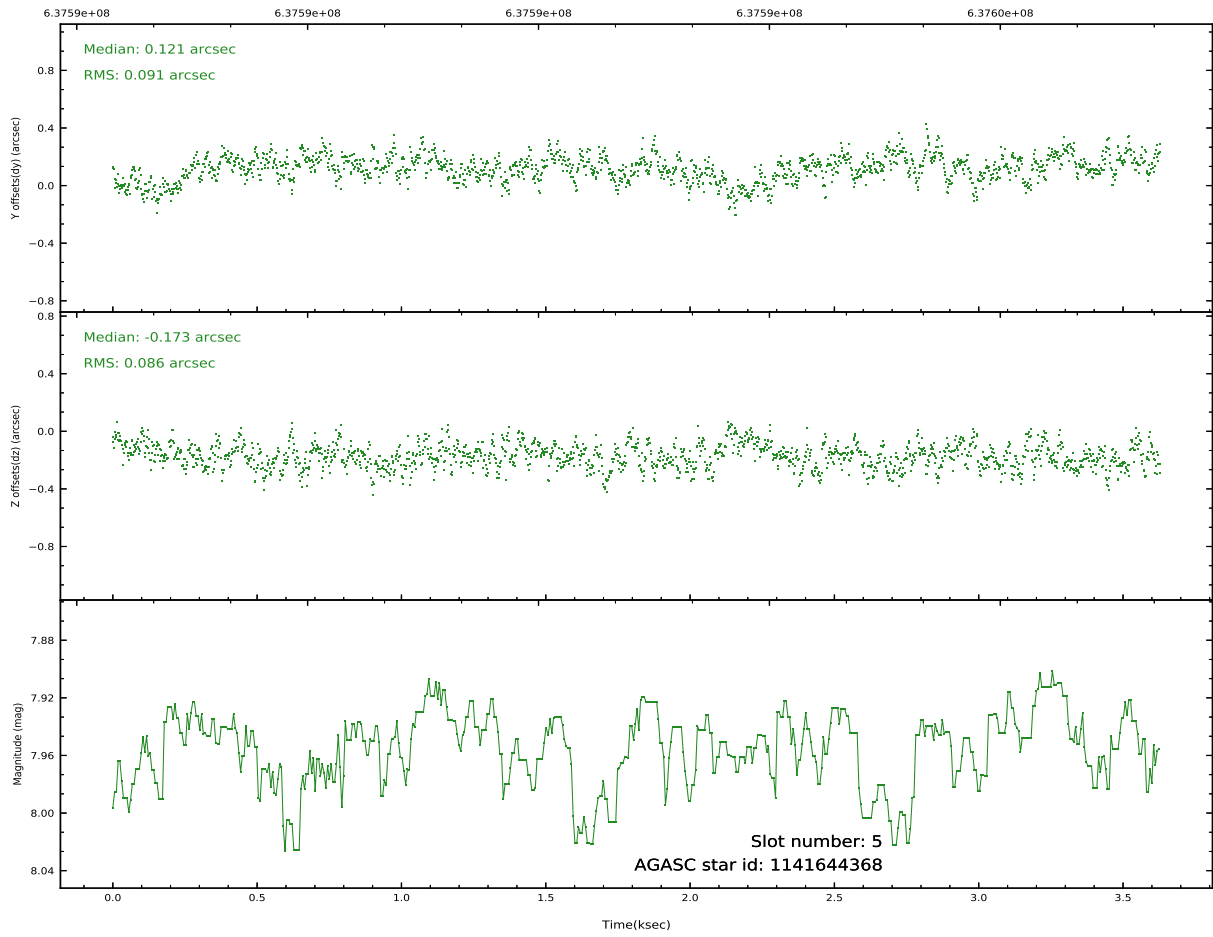
2.4.2 Slot 4



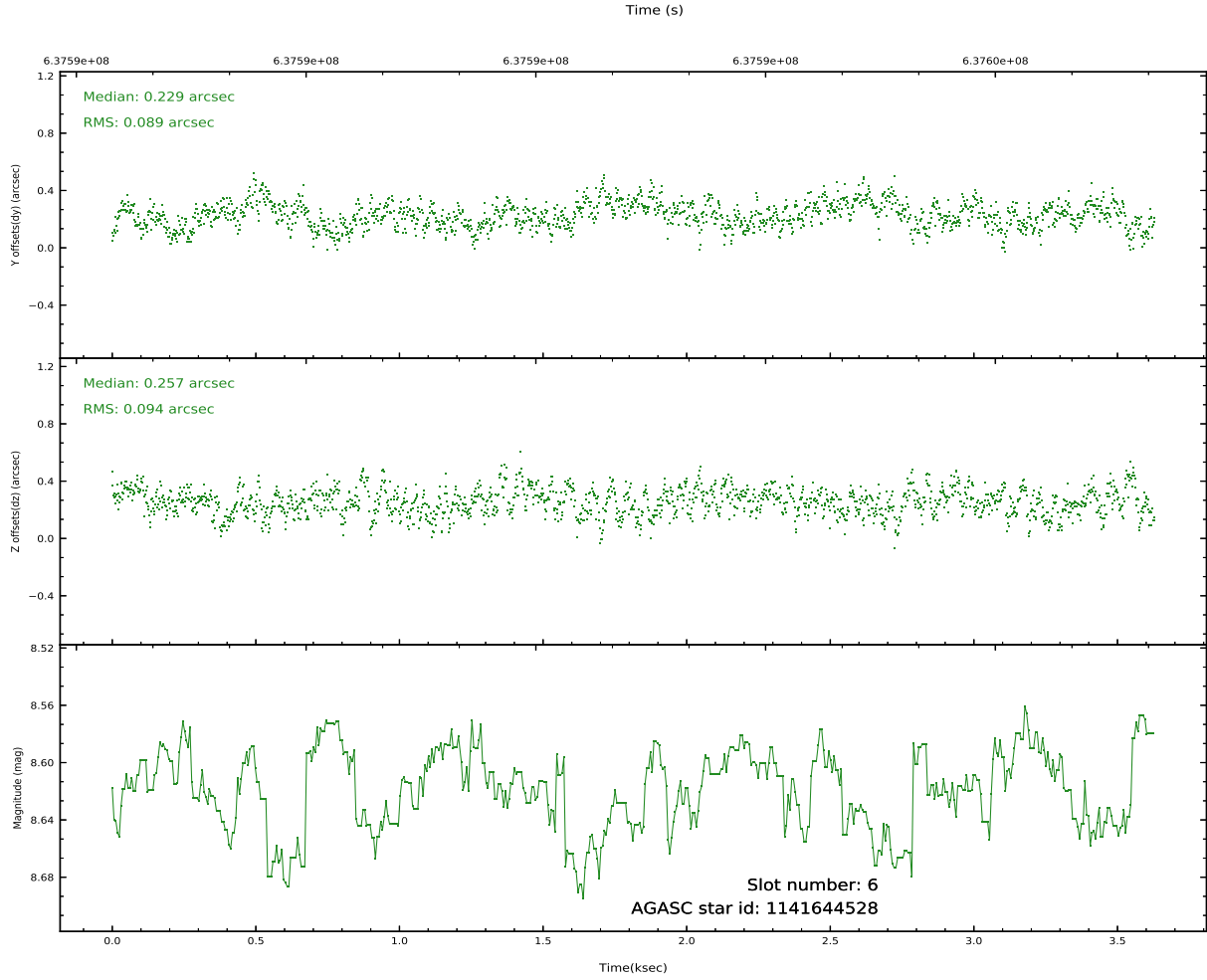
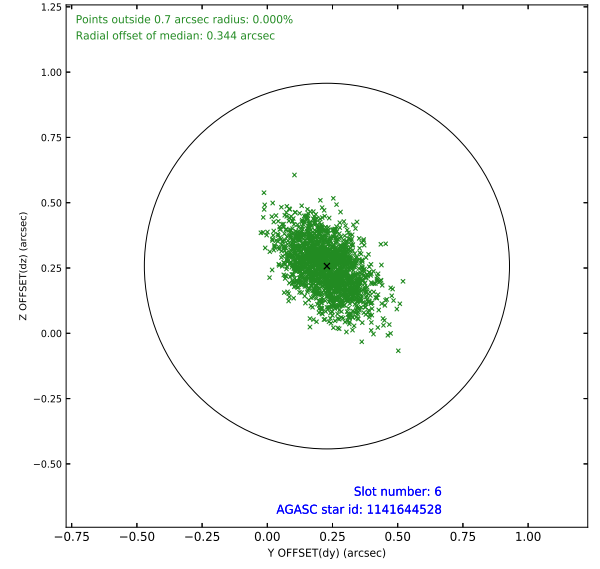
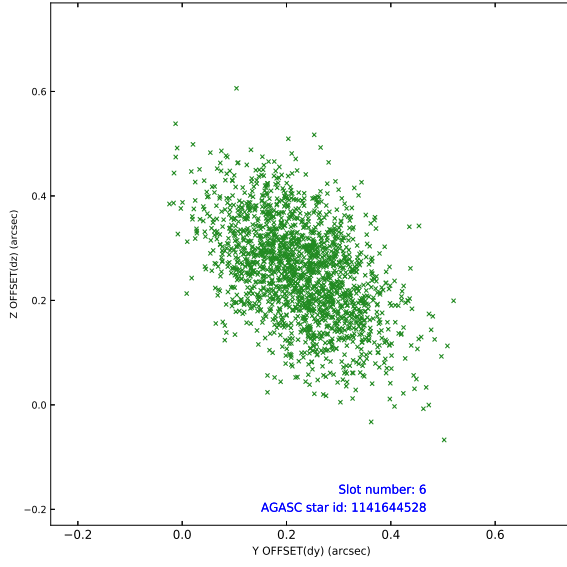
2.4.3 Slot 5



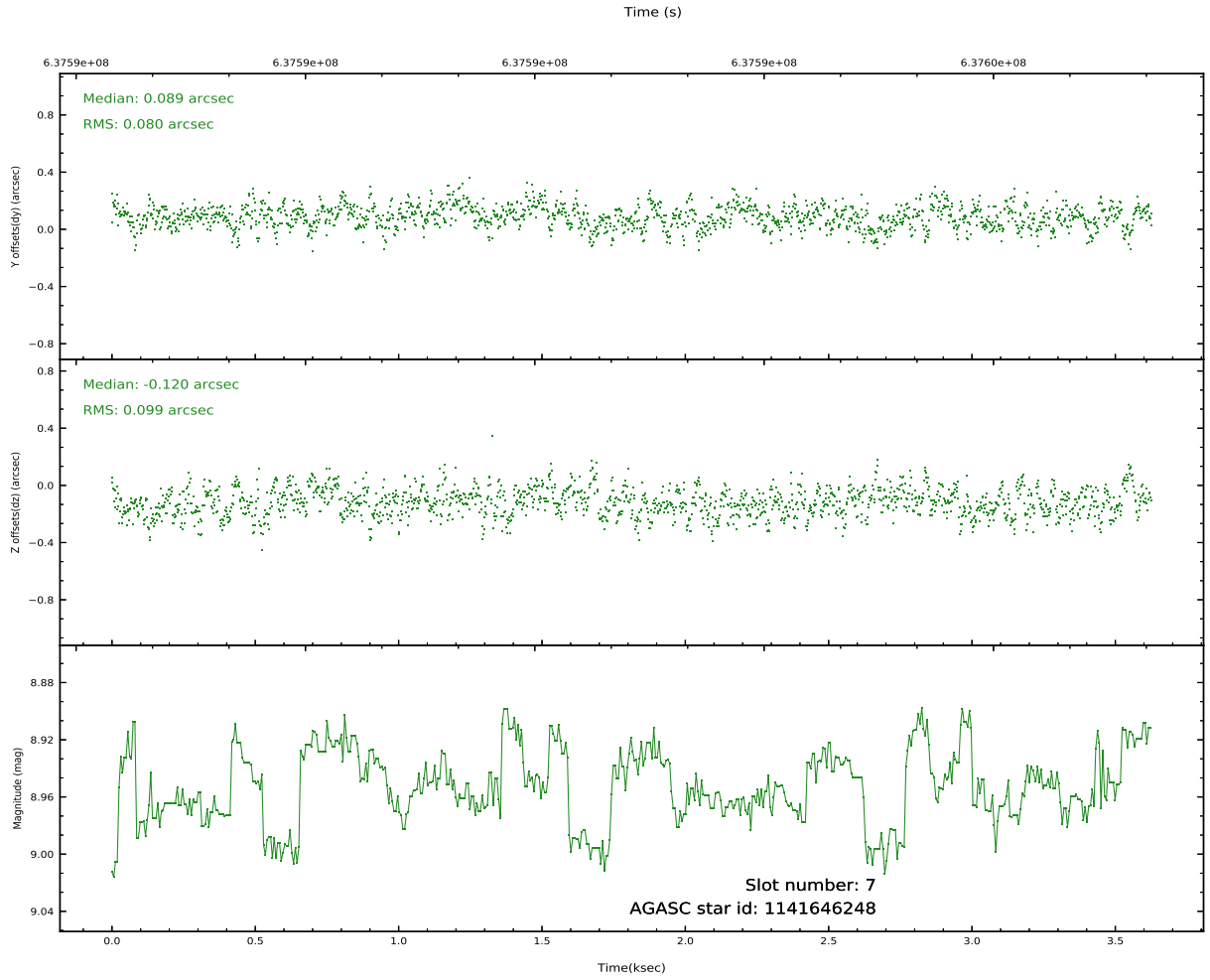
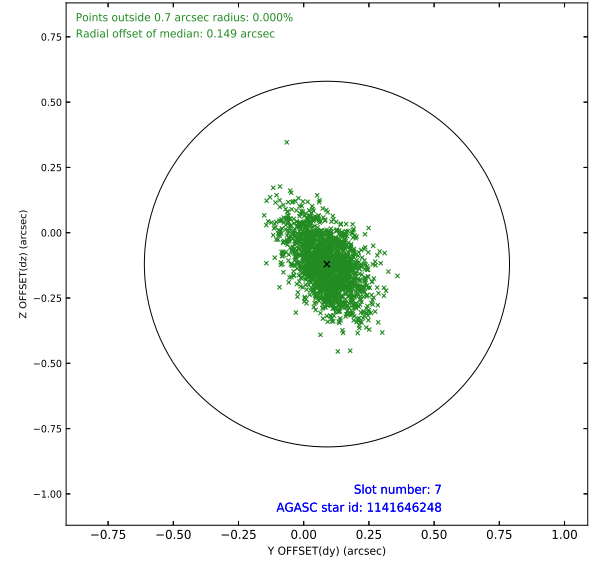
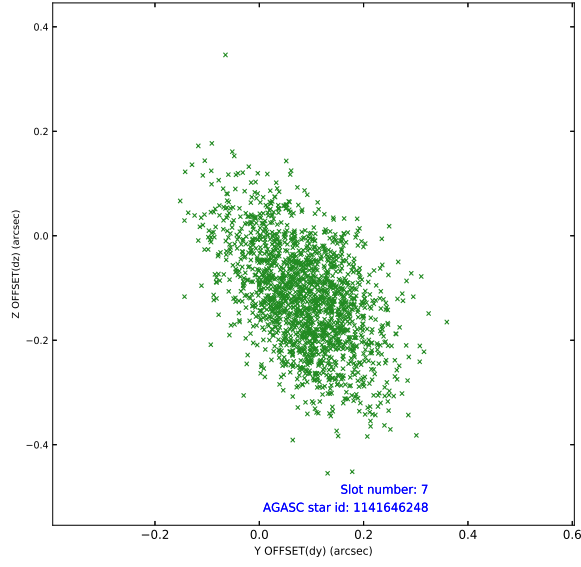
Time (s)



2.4.4 Slot 6

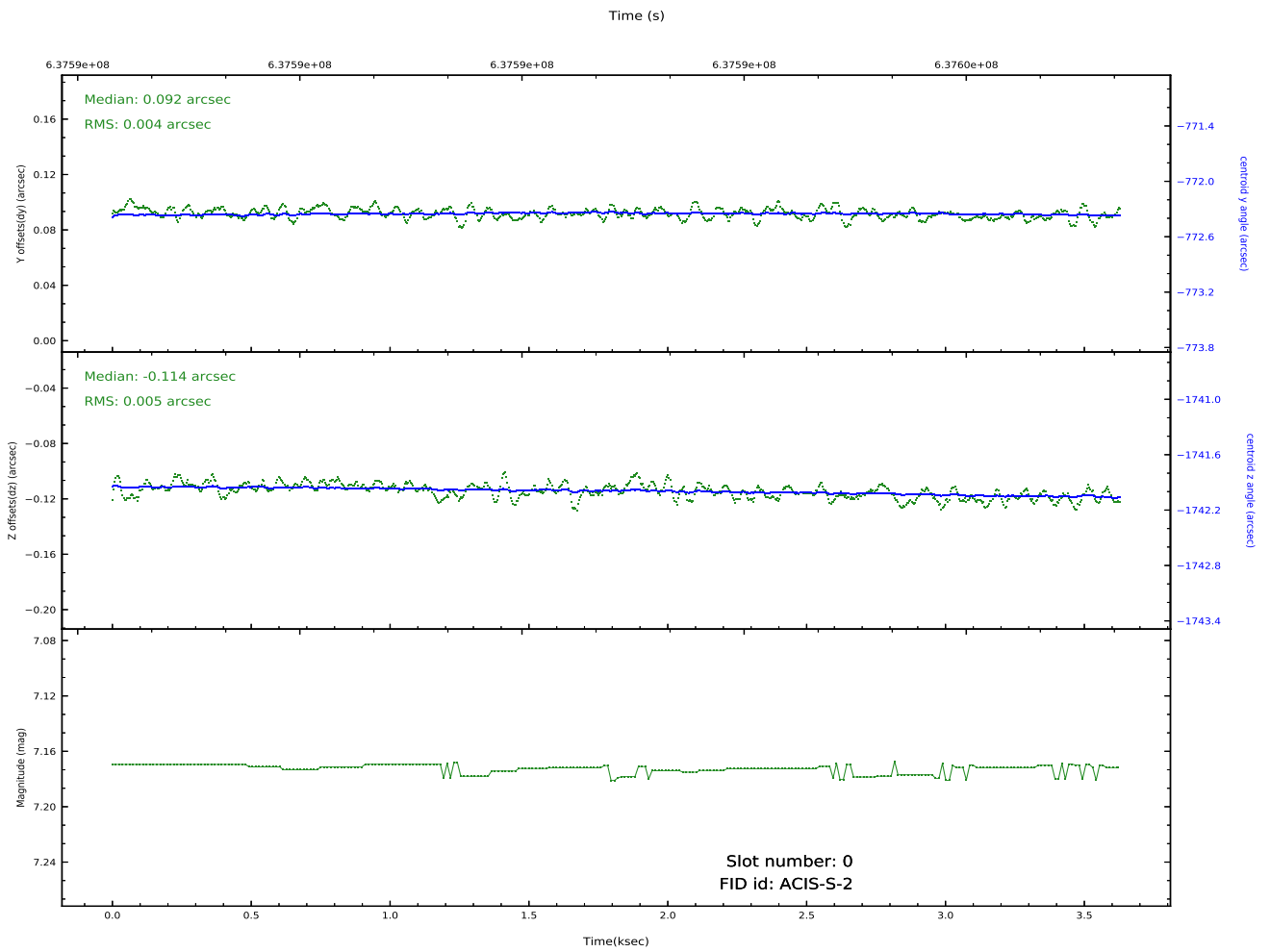
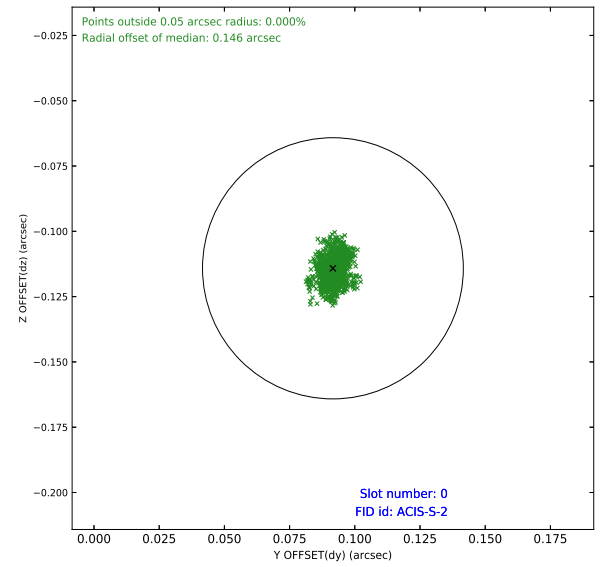
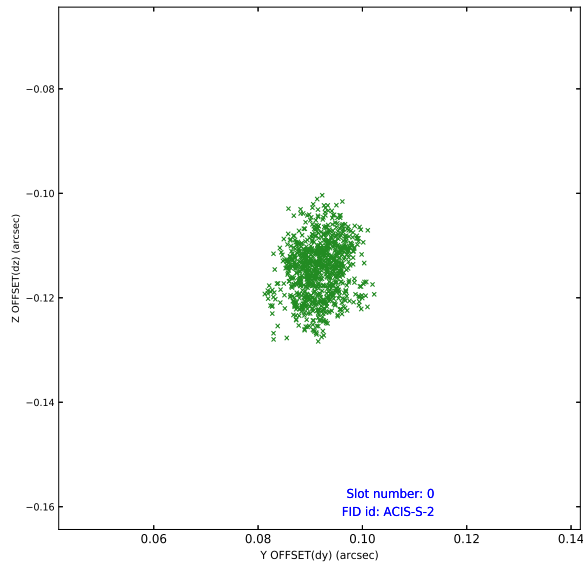


2.4.5 Slot 7

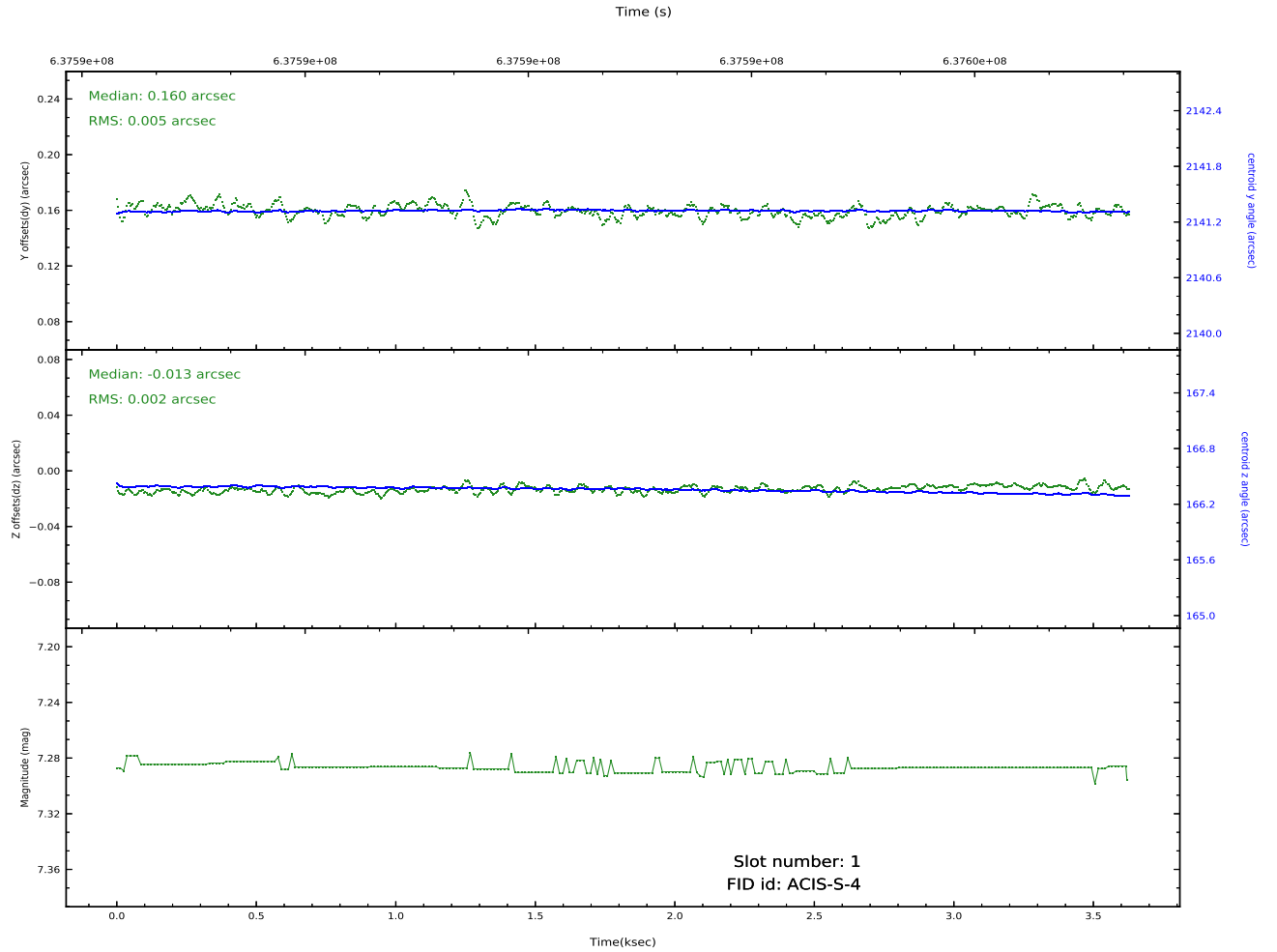
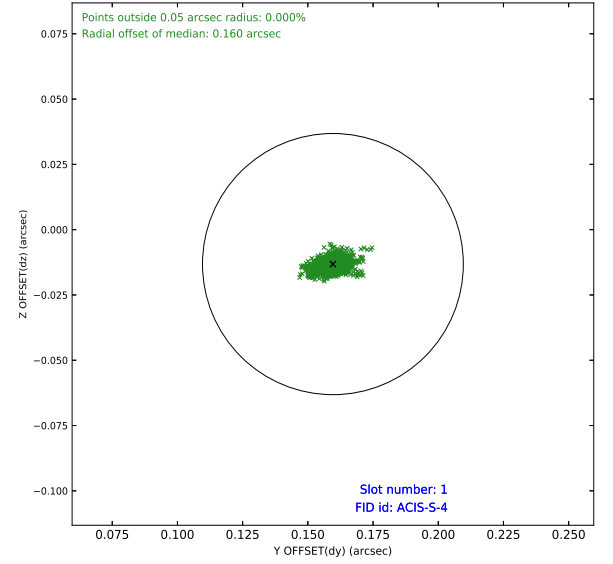
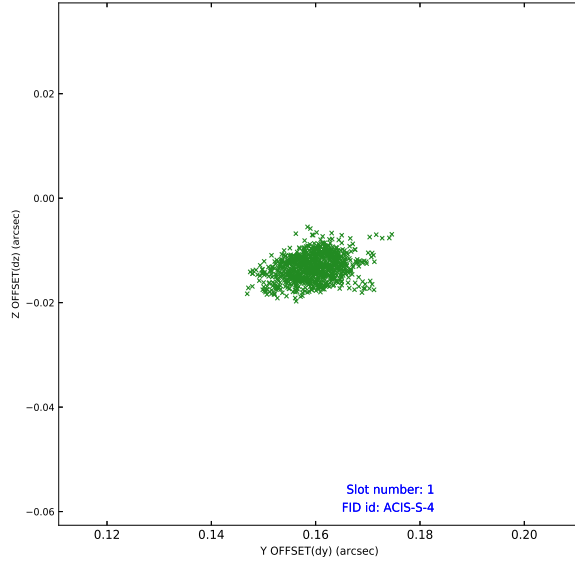


2.5 FID Slots

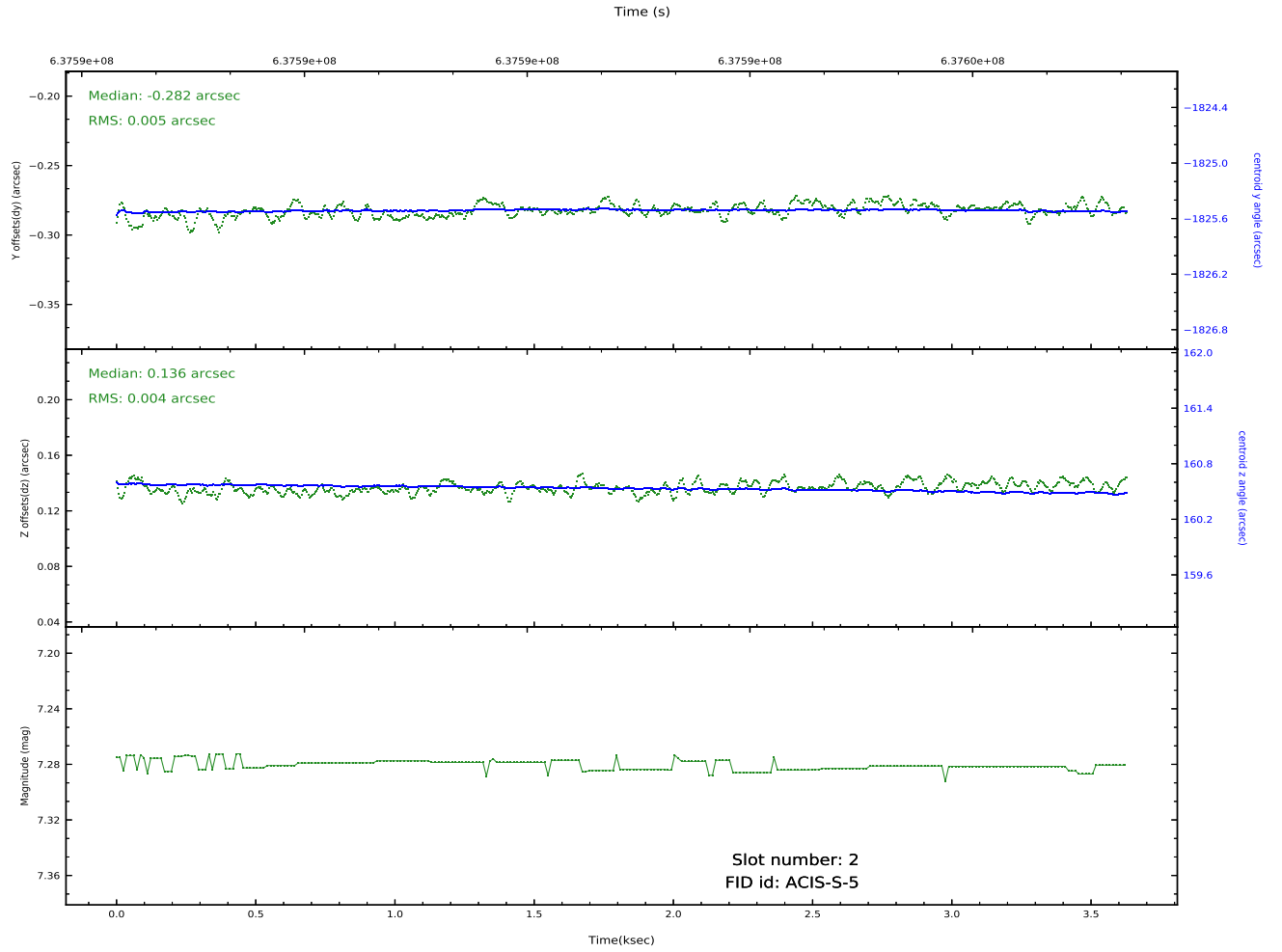
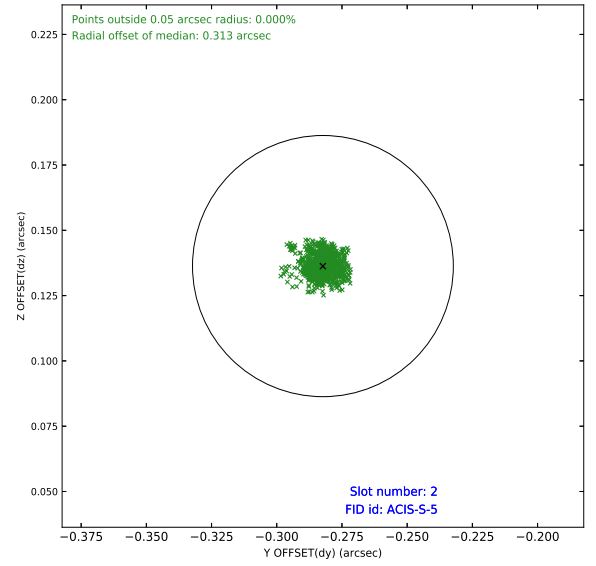
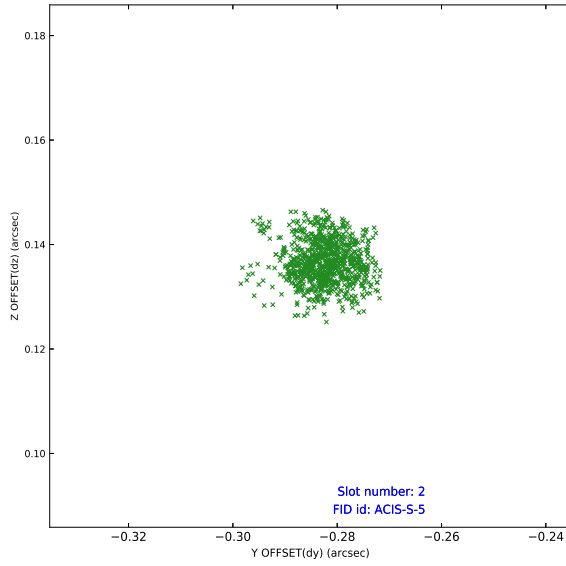
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	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	3.5433000273705

A.2 Comments