

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 21029 - L2 Version 2
Chandra X-Ray Center

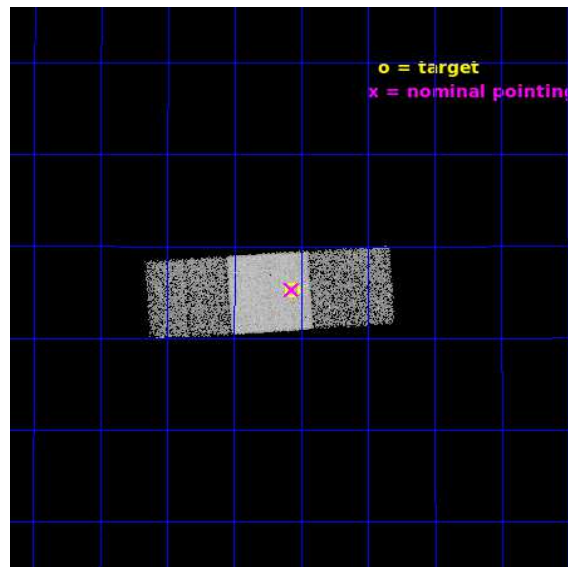
L2 Processing Date : Oct 25 2020

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1 Front

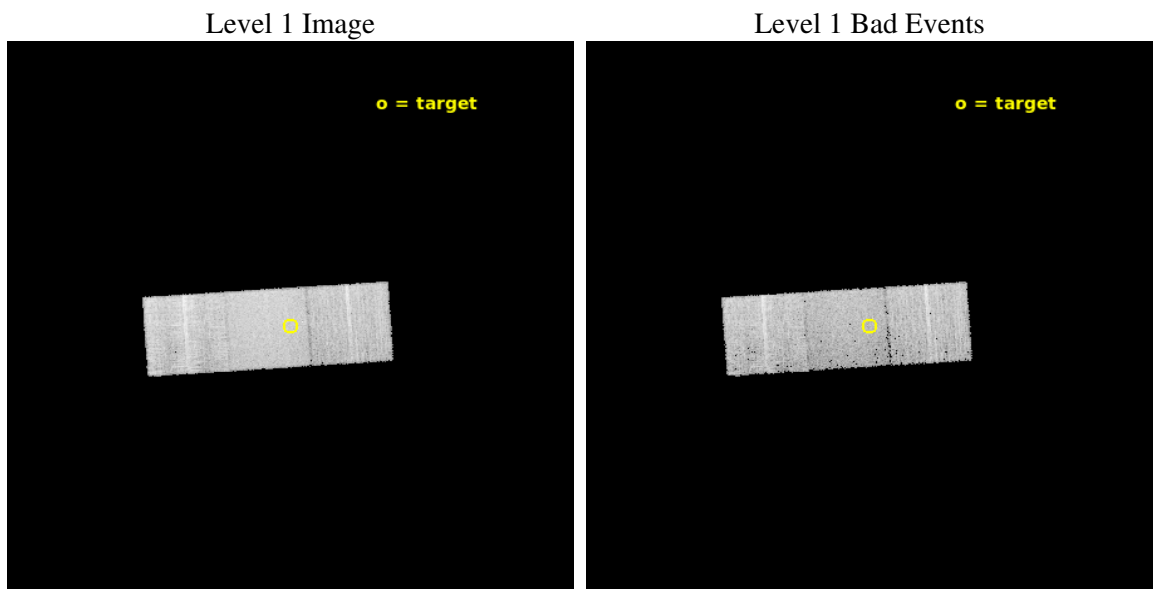
seq_num	703670	Sequence number
obs_id	21029	Observation id
title	LOW SURFACE BRIGHTNESS GALAXIES AND THE BLACK HOLE OCCUPATION FRACTION	Proposal title
observer	Elena Gallo	Principal investigator
object	UGC 10017	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	236.390417	Observer's specified target RA [deg]
dec_targ	21.420417	Observer's specified target Dec [deg]
ra_nom	236.39197392142	Nominal RA [deg]
dec_nom	21.421640174594	Nominal Dec [deg]
roll_nom	176.14025630336	Nominal Roll [deg]
revision	2	Processing version of data
ontime	7963.9000613689	Sum of GTIs [s]
livetime	7859.8458441292	Livetime [s]
ontime6	7963.9000613689	Sum of GTIs [s]
ontime7	7963.9000613689	Sum of GTIs [s]
ontime8	7963.9000613689	Sum of GTIs [s]
l2events	43879	Number of level 2 events



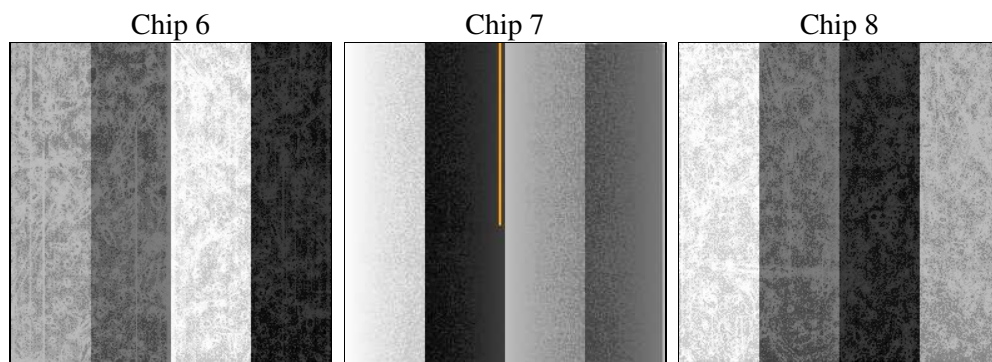
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	7891.970000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	7963.9000613689	Sum of GTIs [s]
caldsver	4.9.3	 	ontime6	7963.9000613689	Sum of GTIs [s]
date	2020-10-25T23:14:17	Date and time of file creation	ontime7	7963.9000613689	Sum of GTIs [s]
revision	2	Processing version of data	ontime8	7963.9000613689	Sum of GTIs [s]
			l1events	214224	Number of level 1 events

2.1.4 Events

	ccd 6	ccd 7	ccd 8
level 1 events	61675	75002	77547
rejected events	54901	42278	58085
rejected %	89%	56%	74%

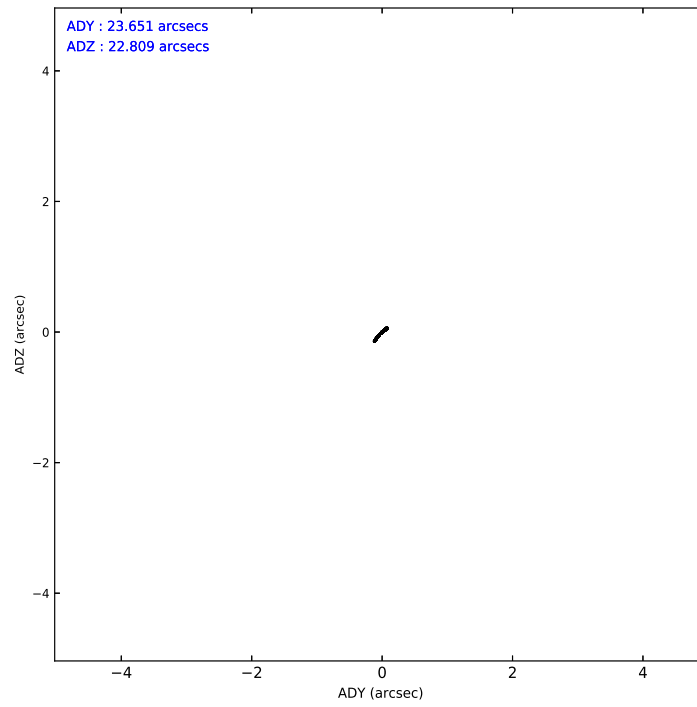
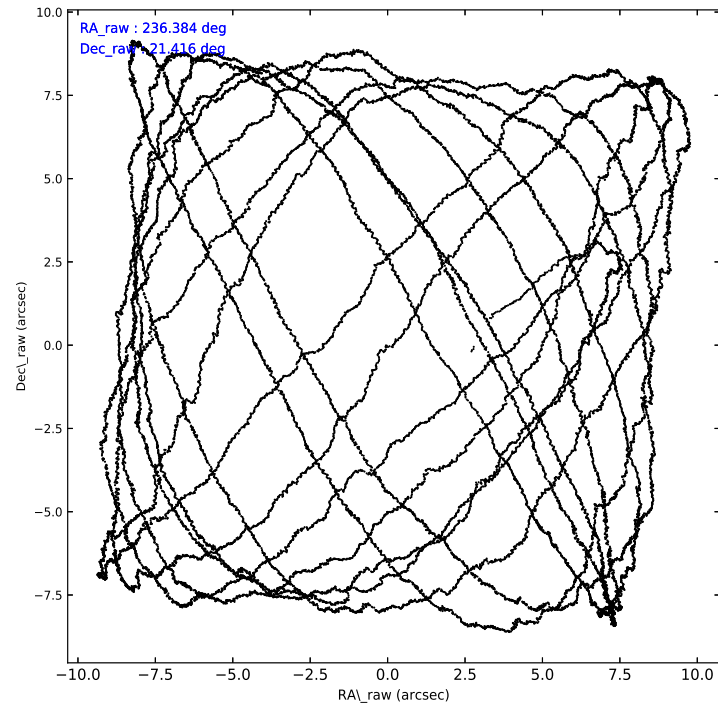
	ccd 6	ccd 7	ccd 8
grade 0 events	1969	2724	5177
	3%	3%	6%
grade 1 events	25	111	61
	0%	0%	0%
grade 2 events	1879	6817	4943
	3%	9%	6%
grade 3 events	567	2589	1813
	0%	3%	2%
grade 4 events	570	2552	1745
	0%	3%	2%
grade 5 events	2585	7180	3963
	4%	9%	5%
grade 6 events	1794	18059	5791
	2%	24%	7%
grade 7 events	52286	34970	54054
	84%	46%	69%

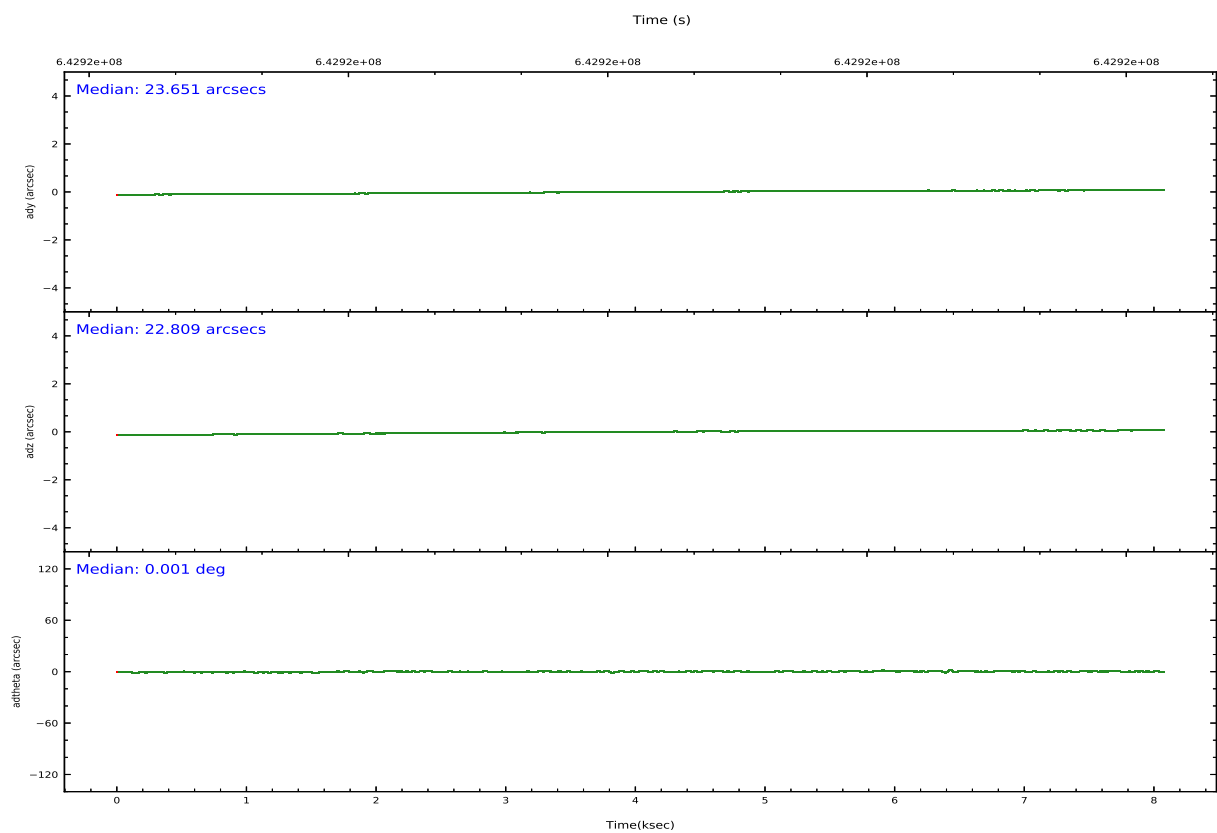
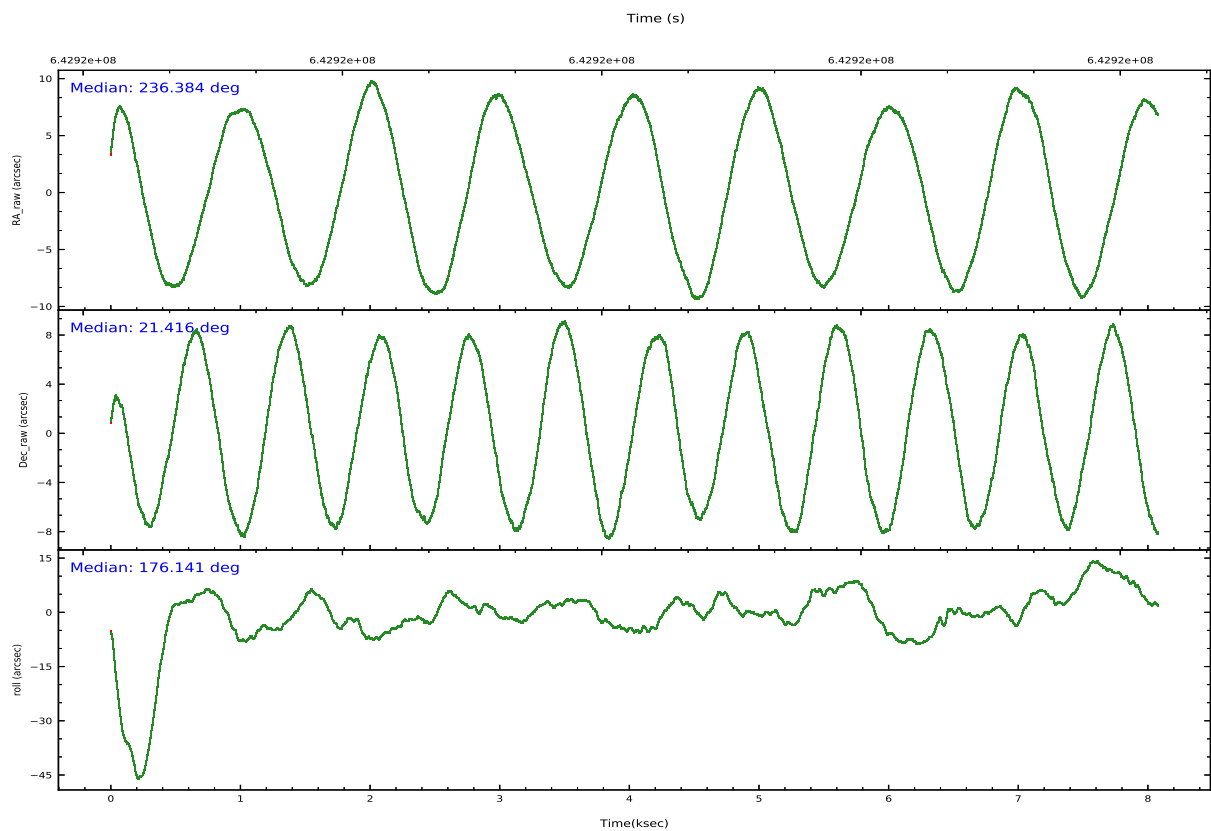
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-678	ACIS-678
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	236.410452	236.39197392142
[deg] Pointing Dec	21.428037	21.421640174594
[deg] Pointing Roll	175.983582	176.14025630336
[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)	642916400.184000	642915525.7705899
Observation start date	2018-05-17T03:52:11	2018-05-17T03:38:45
[s] Observation end time (MET)	642924292.184000	642925211.50866
Observation end date	2018-05-17T06:03:43	2018-05-17T06:20:11
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	N	N
CCD I3 on	N	N
CCD S0 on	N	N
CCD S1 on	O1	N
CCD S2 on	Y	Y
CCD S3 on	Y	Y
CCD S4 on	Y	Y
CCD S5 on	O2	N
Number of optional ACIS chips dropped	2	2
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



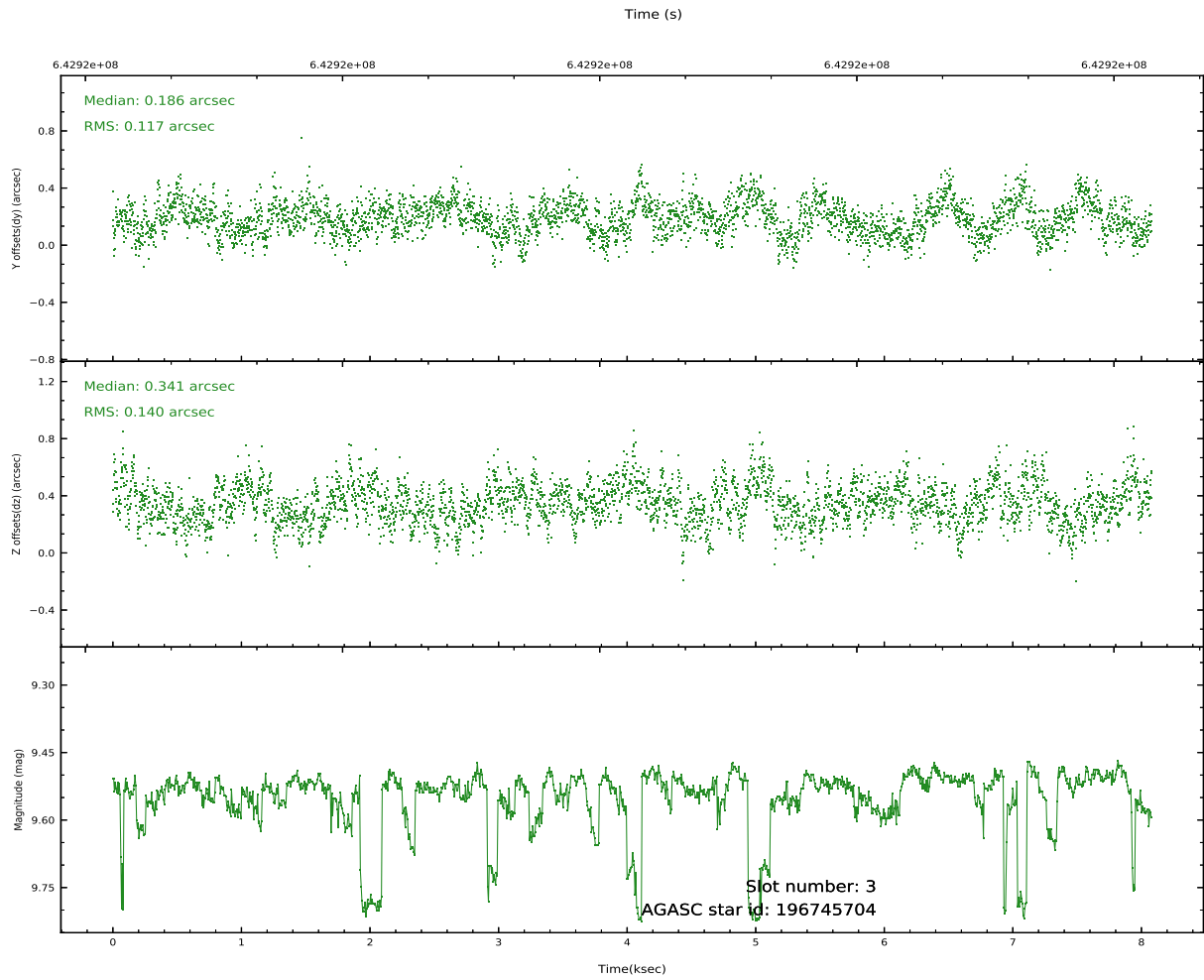
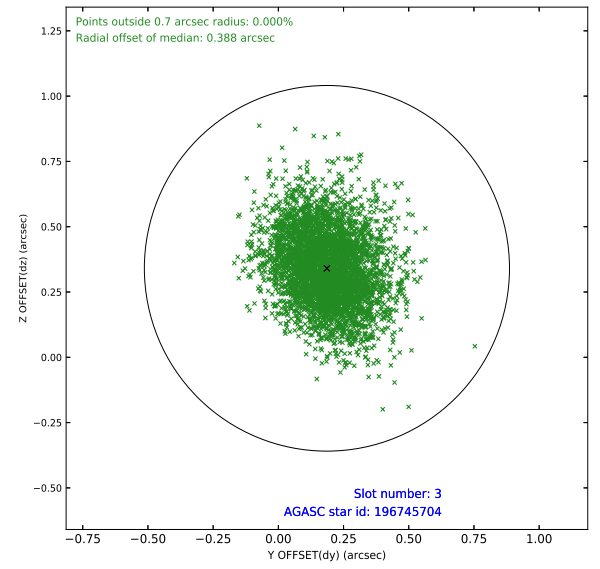
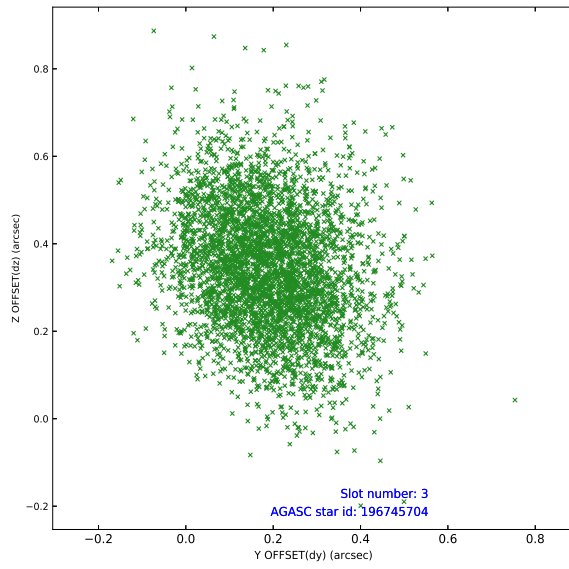


Slot Statistics

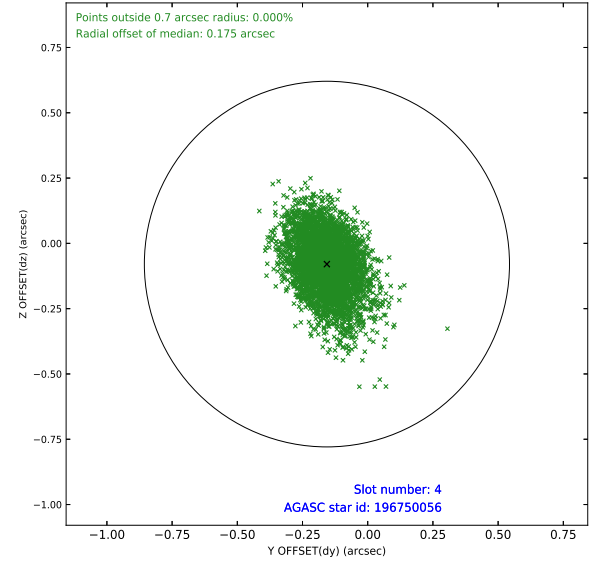
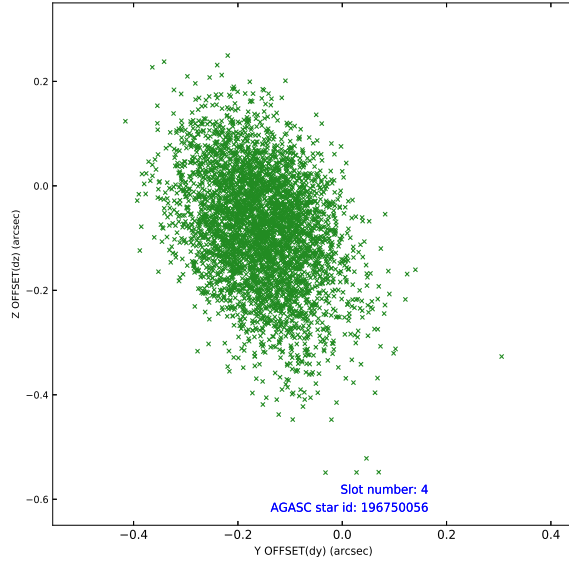
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-1	7.22	1971	1.000	0.321	-0.166	0.008	0.016	0.000000	0.000000	919.30	-1740
1	FID		ACIS-S-5	7.25	1971	1.000	-0.265	0.265	0.008	0.013	0.000000	0.000000	-1829.67	157
2	FID		ACIS-S-6	7.42	1971	1.000	-0.078	-0.087	0.008	0.013	0.000000	0.000000	384.00	801
3	GUIDE	used	196745704	9.53	3935	1.000	0.186	0.341	0.194	0.316	237.053973	21.687948	-2080.75	-1088
4	GUIDE	used	196750056	8.15	3940	1.000	-0.156	-0.079	0.141	0.241	236.232272	20.881409	459.15	2004
5	GUIDE	used	196751408	8.84	3939	1.000	0.031	-0.013	0.134	0.227	236.347350	21.587354	251.43	-556
6	GUIDE	used	196751472	9.34	3940	1.000	0.036	-0.210	0.196	0.325	236.602985	21.373692	-657.19	149
7	GUIDE	used	196752464	9.13	3938	1.000	-0.098	-0.038	0.155	0.260	236.375138	21.178617	60.05	903

2.4 Star Slots

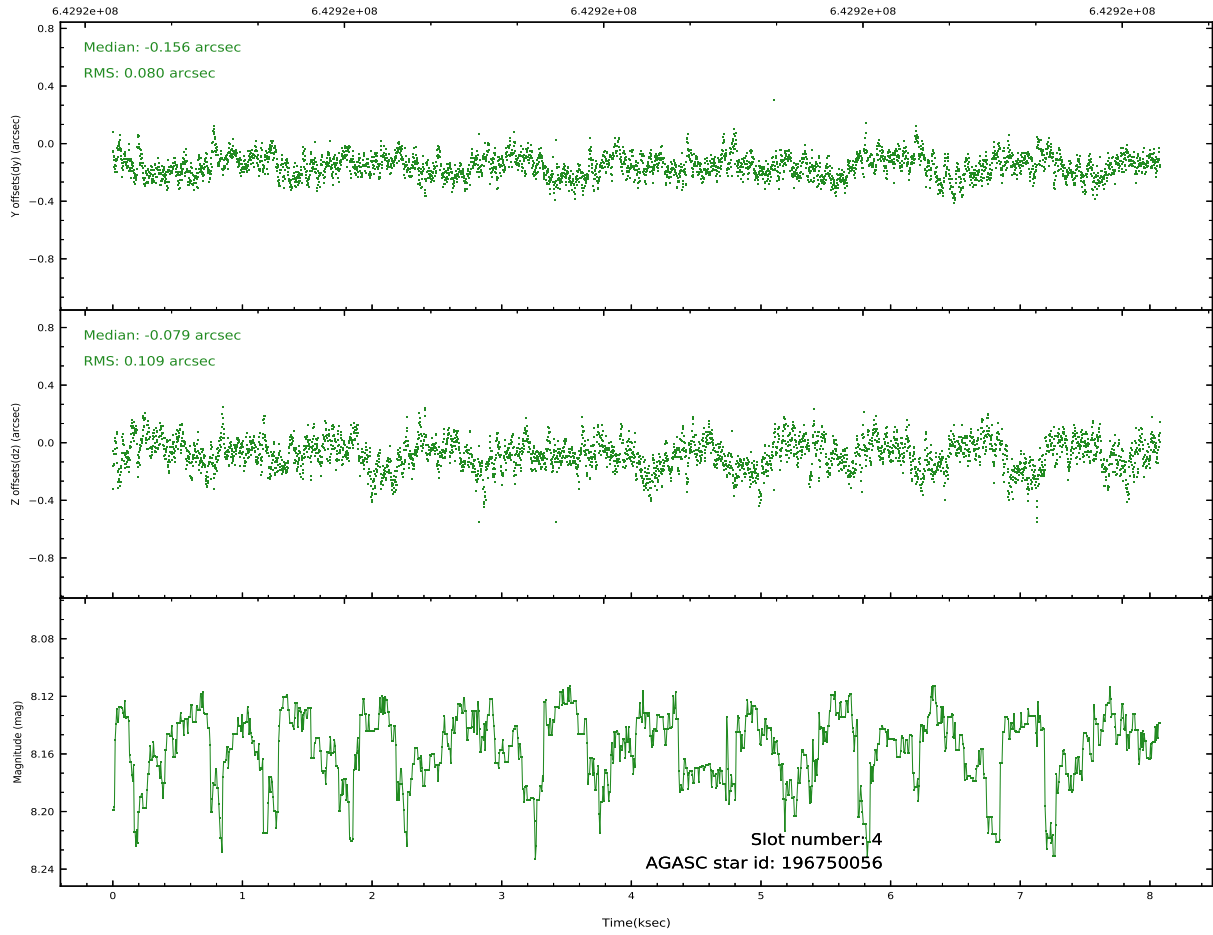
2.4.1 Slot 3



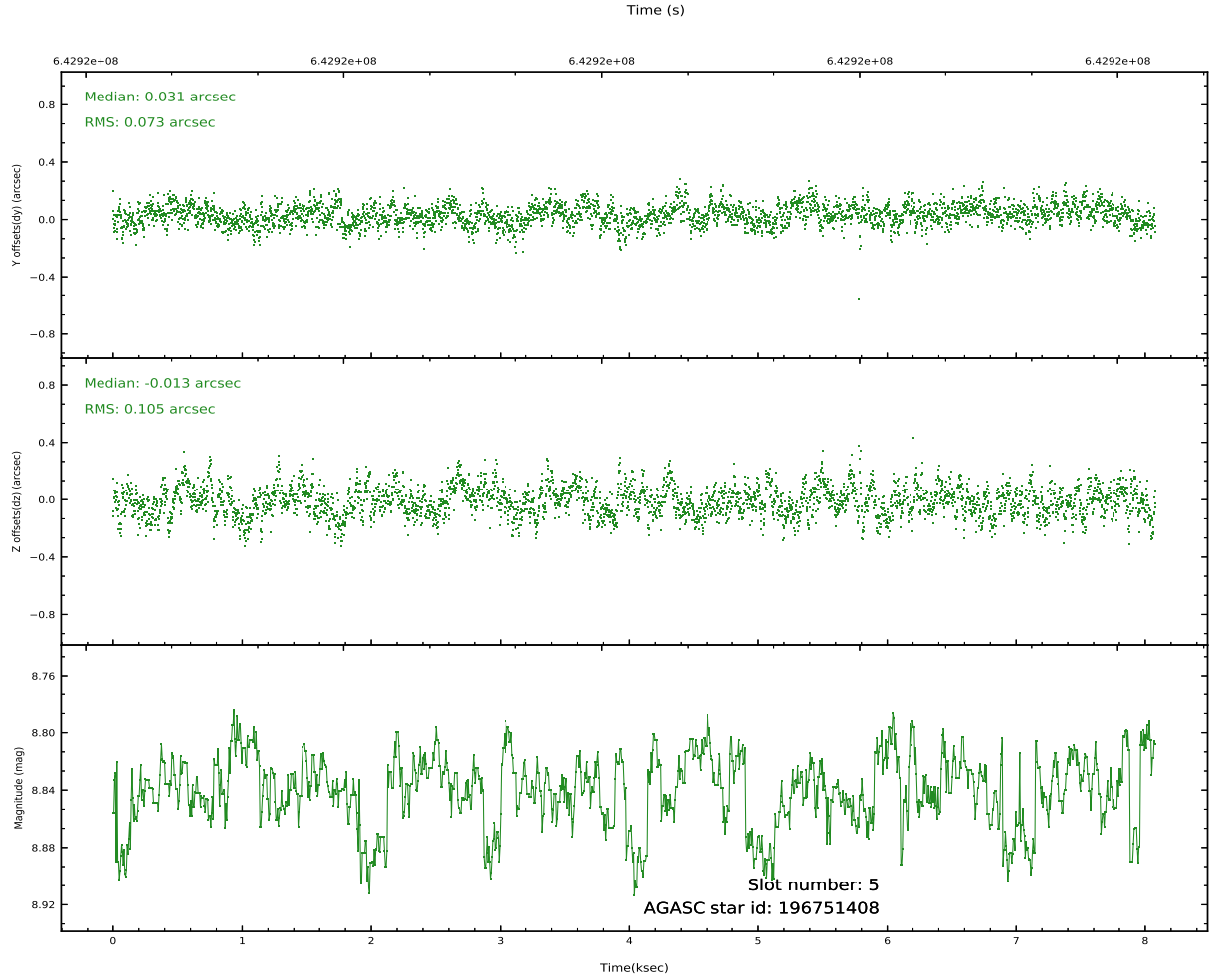
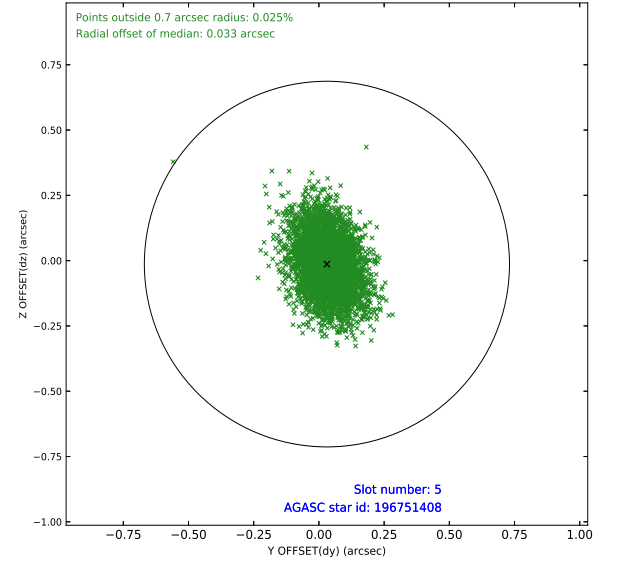
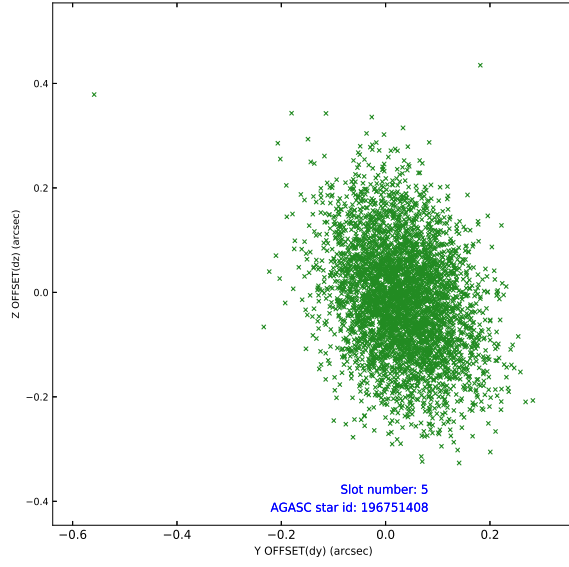
2.4.2 Slot 4



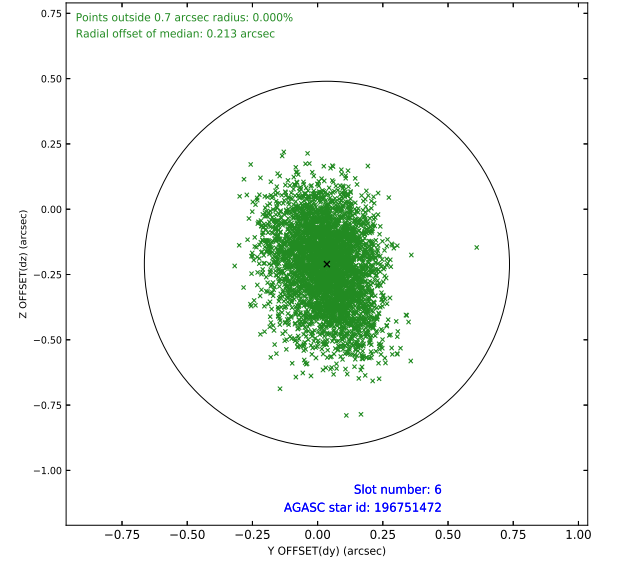
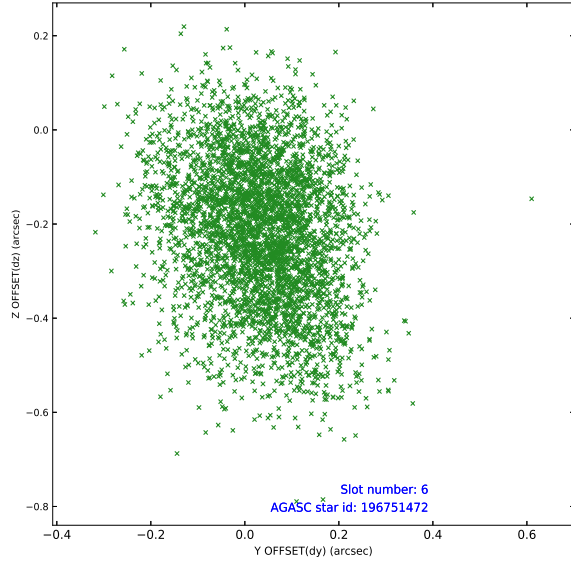
Time (s)



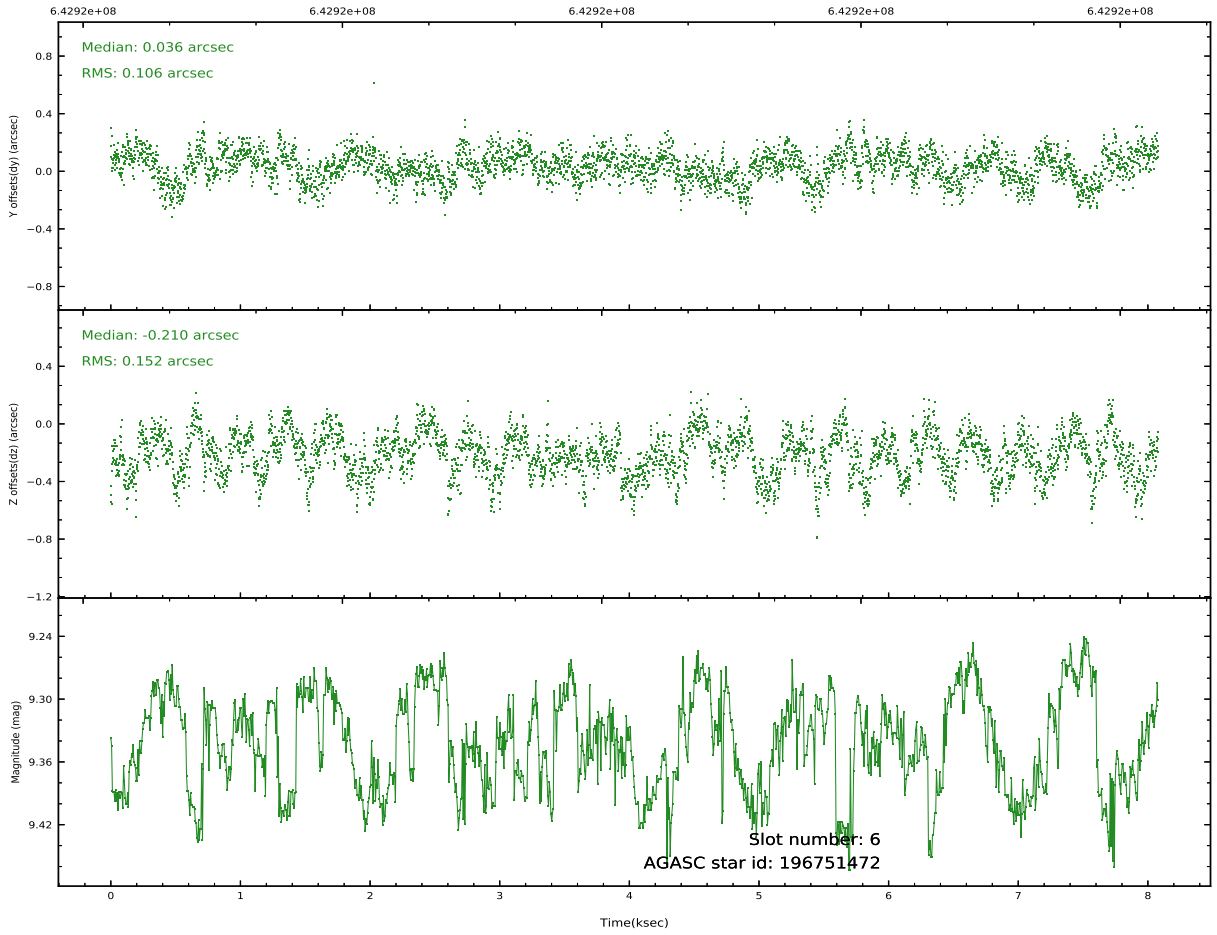
2.4.3 Slot 5



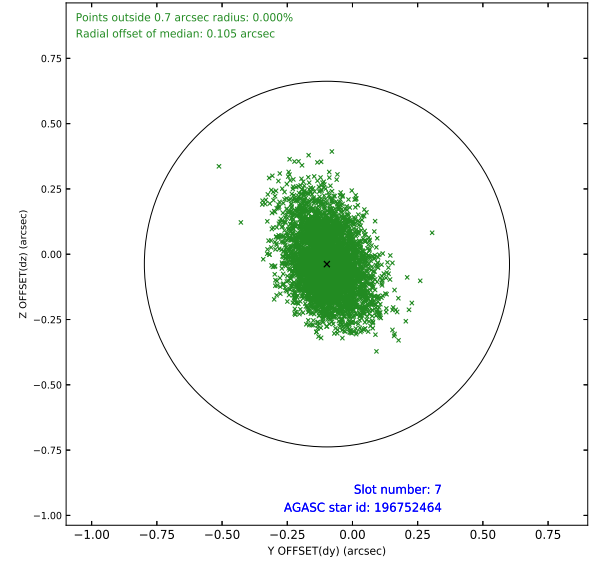
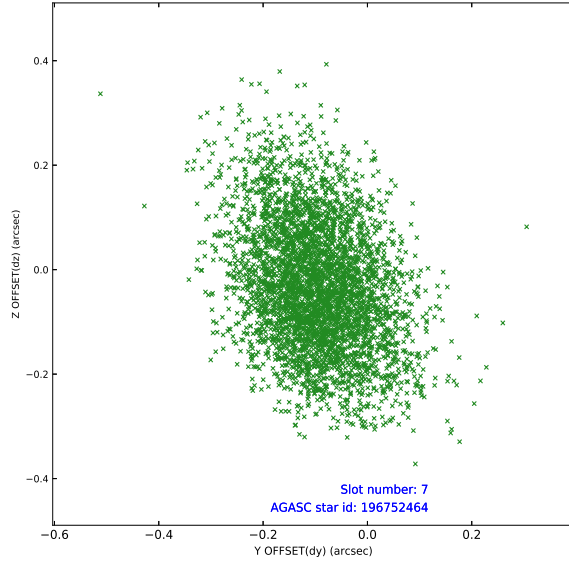
2.4.4 Slot 6



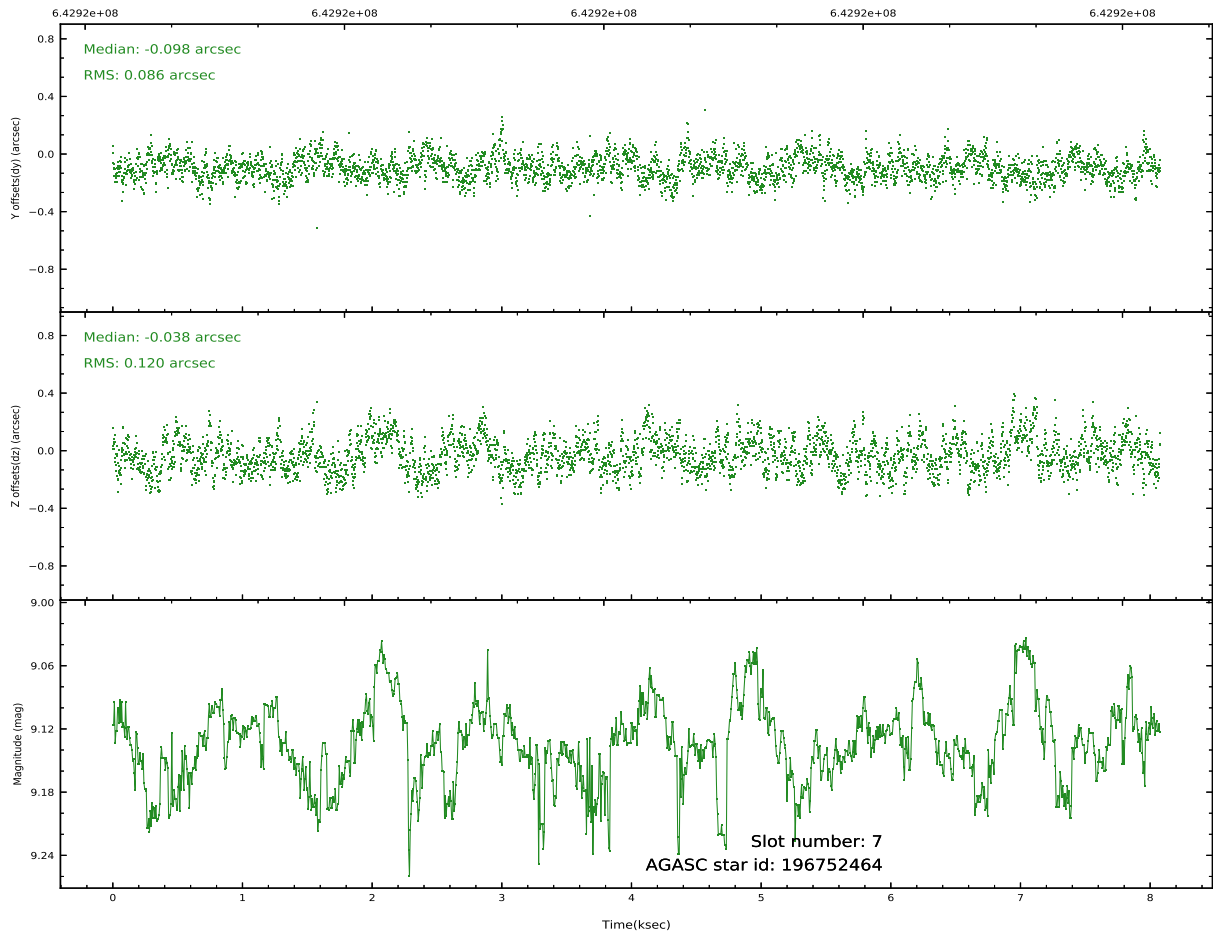
Time (s)



2.4.5 Slot 7

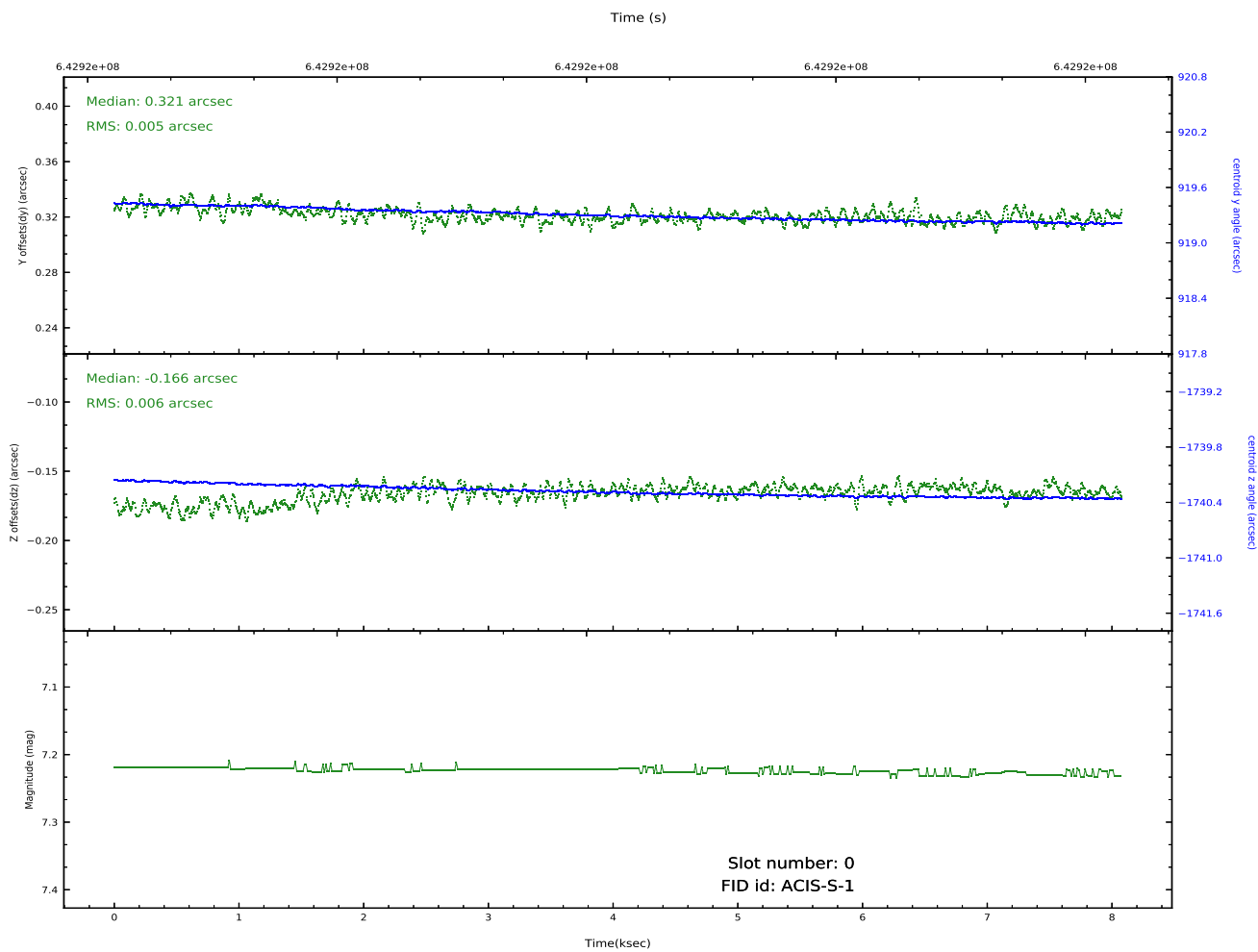
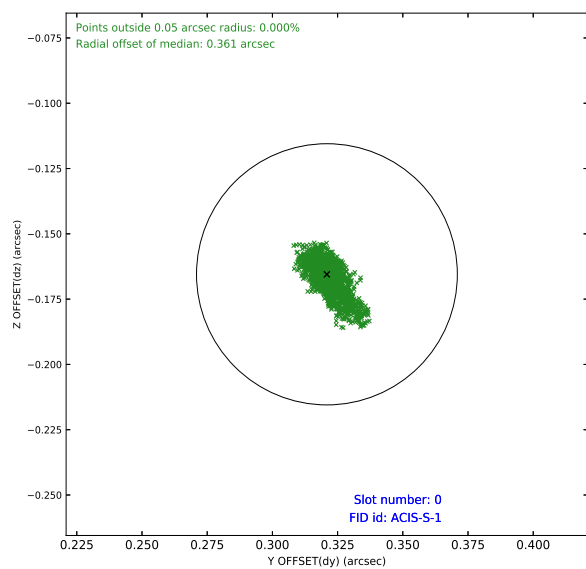
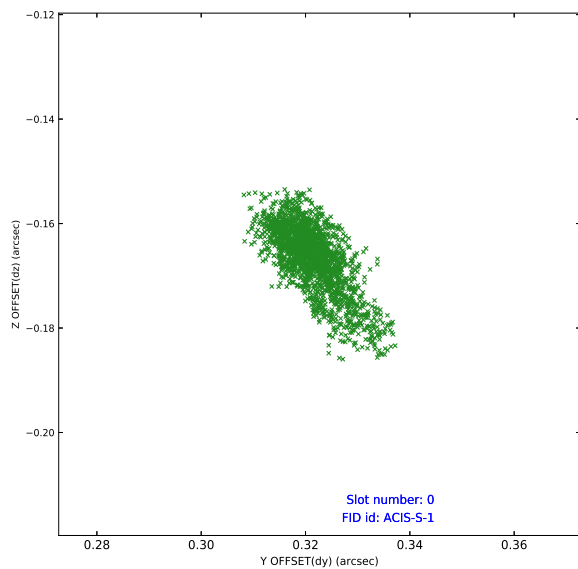


Time (s)

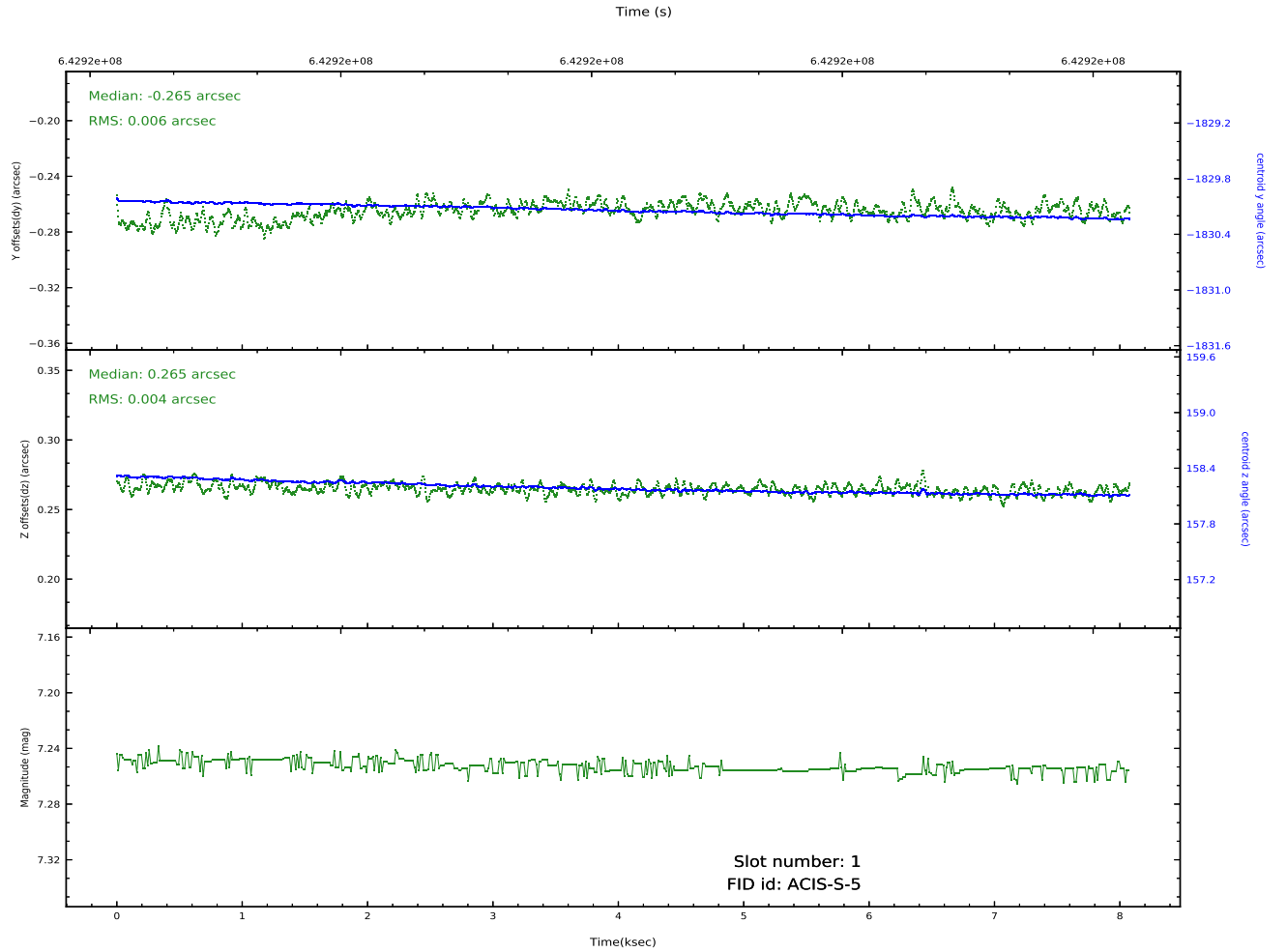
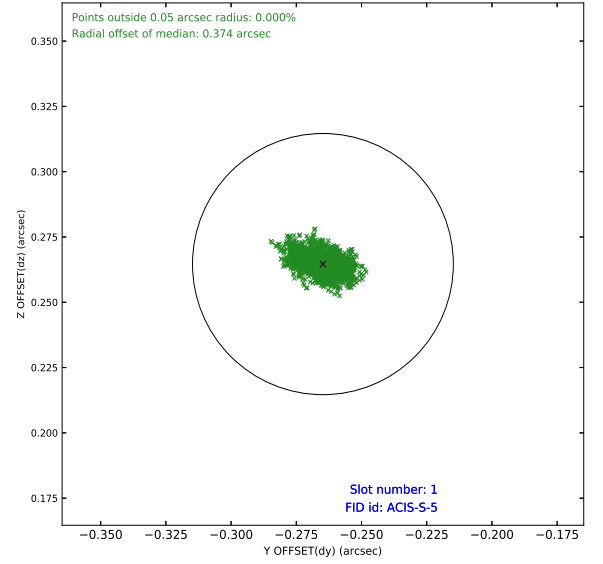
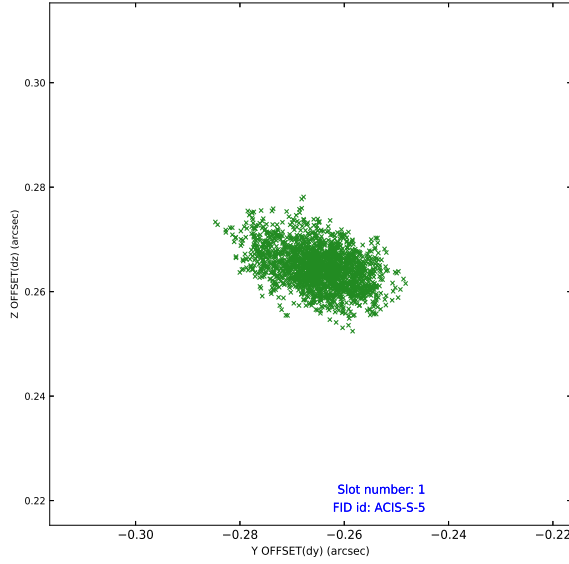


2.5 FID Slots

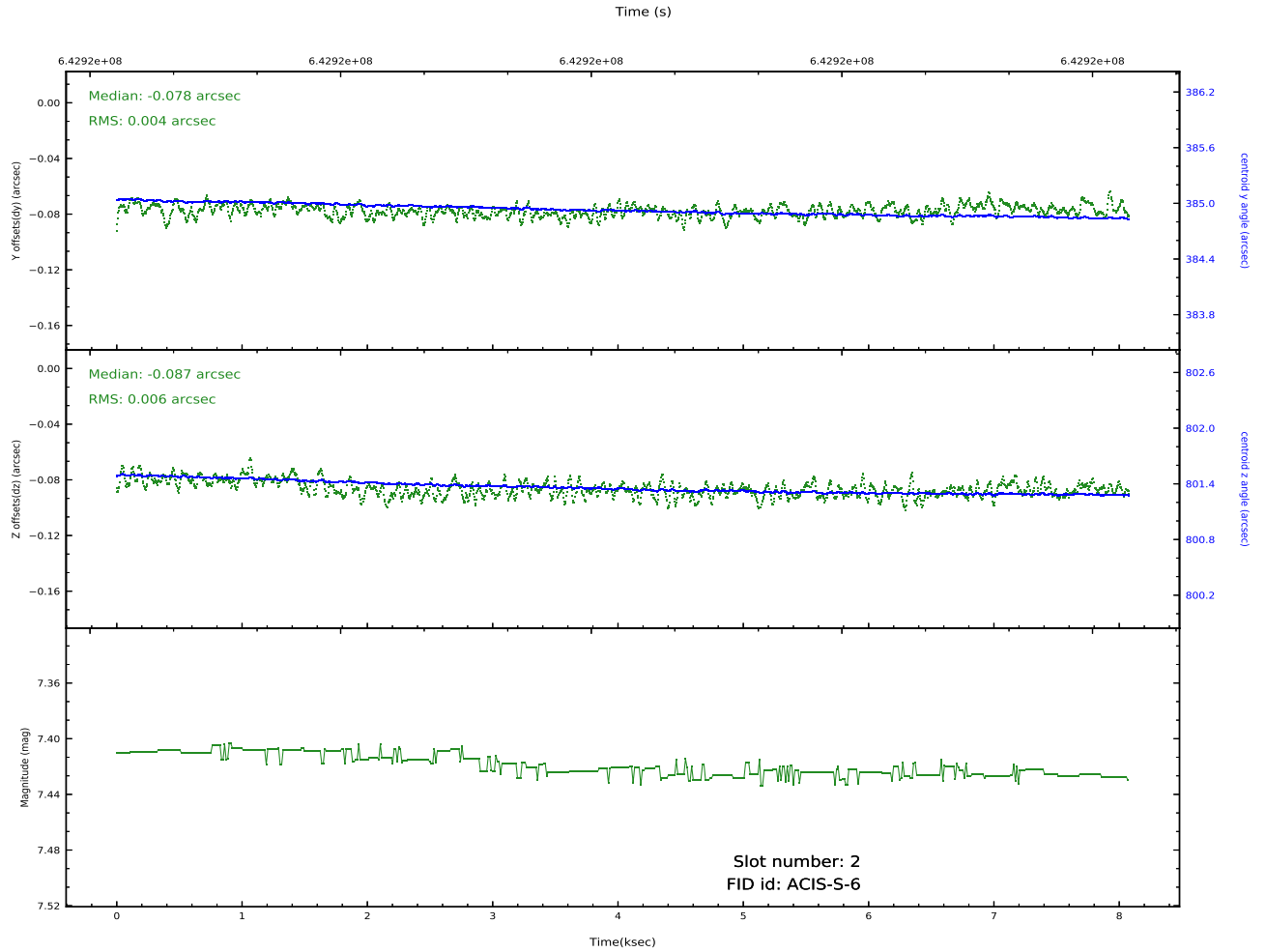
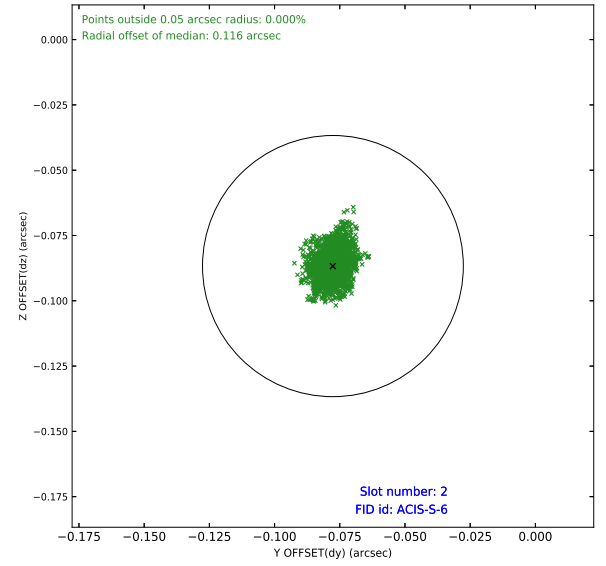
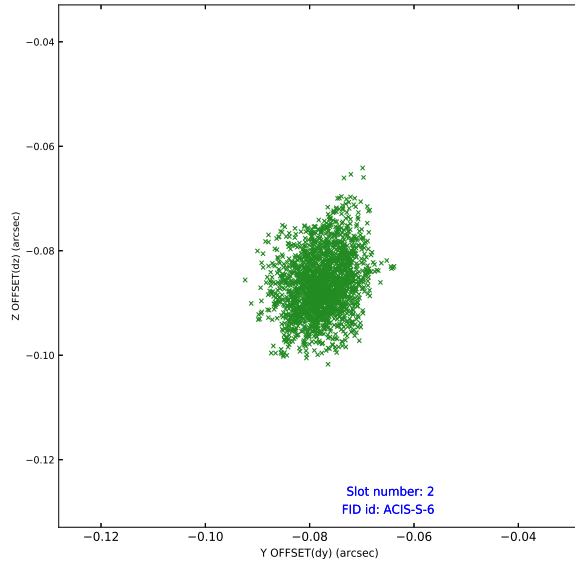
2.5.1 Slot 0



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)	2020.10.29
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.9639000613689

A.2 Comments

Optional chips S1 and S5 not included.