

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5449 - L2 Version 4
Chandra X-Ray Center

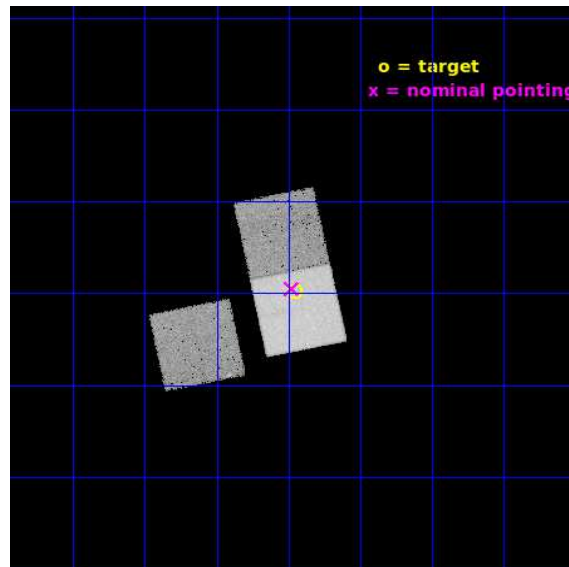
L2 Processing Date : Oct 6 2020

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1 Front

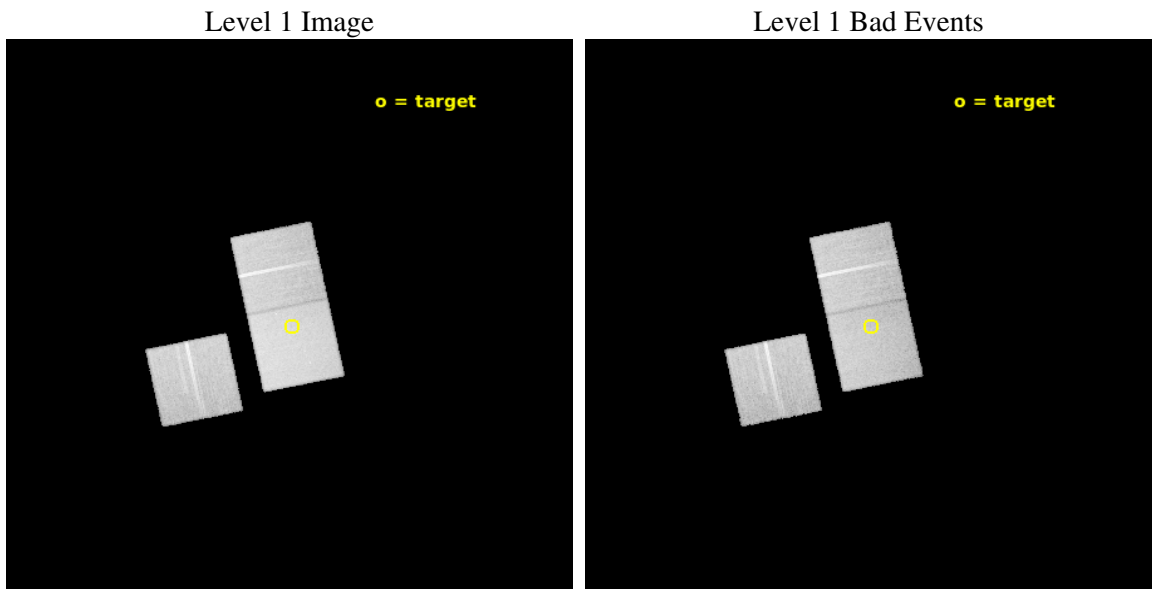
seq_num	400379	Sequence number
obs_id	5449	Observation id
title	Faint quiescent neutron star soft X-ray transients	Proposal title
observer	Peter Jonker	Principal investigator
object	1H 1905+000	Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	287.1125	Observer's specified target RA [deg]
dec_targ	0.168889	Observer's specified target Dec [deg]
ra_nom	287.11888707269	Nominal RA [deg]
dec_nom	0.17500078574647	Nominal Dec [deg]
roll_nom	78.193405518237	Nominal Roll [deg]
revision	4	Processing version of data
ontime	25165.799951583	Sum of GTIs [s]
livetime	24836.990248423	Livetime [s]
ontime3	25159.518021077	Sum of GTIs [s]
ontime6	25162.658981323	Sum of GTIs [s]
ontime7	25165.799951583	Sum of GTIs [s]
l2events	145115	Number of level 2 events



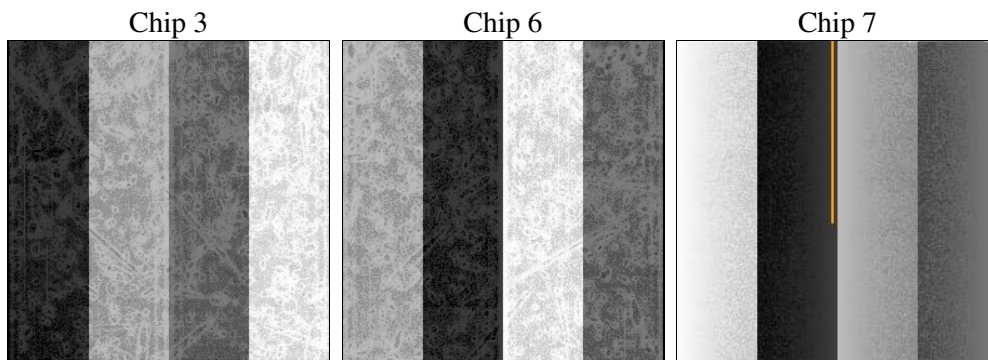
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	25000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	25165.799951583	Sum of GTIs [s]
caldbver	4.9.2	 	ontime3	25159.518021077	Sum of GTIs [s]
date	2020-10-06T22:43:30	Date and time of file creation	ontime6	25162.658981323	Sum of GTIs [s]
revision	4	Processing version of data	ontime7	25165.799951583	Sum of GTIs [s]
			l1events	668609	Number of level 1 events

2.1.4 Events

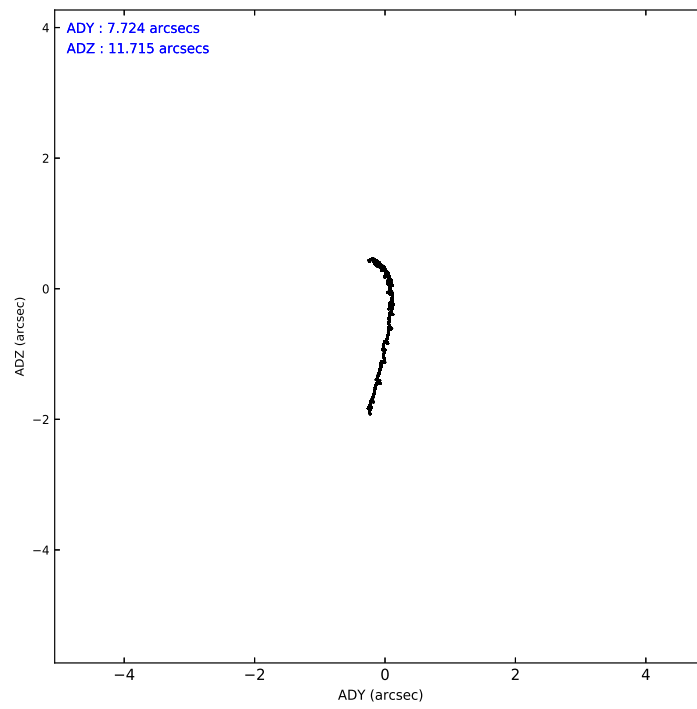
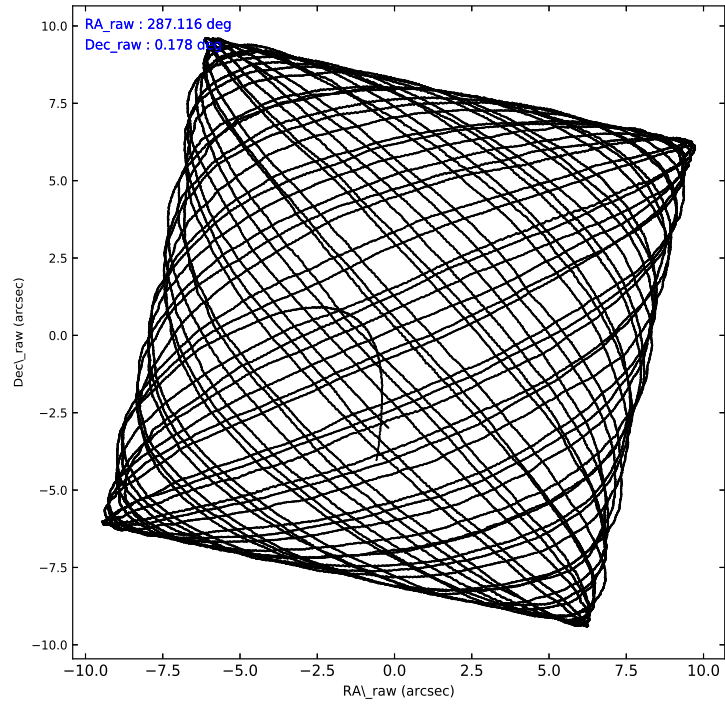
	ccd 3	ccd 6	ccd 7
level 1 events	189970	205747	272892
rejected events	167788	182094	166297
rejected %	88%	88%	60%

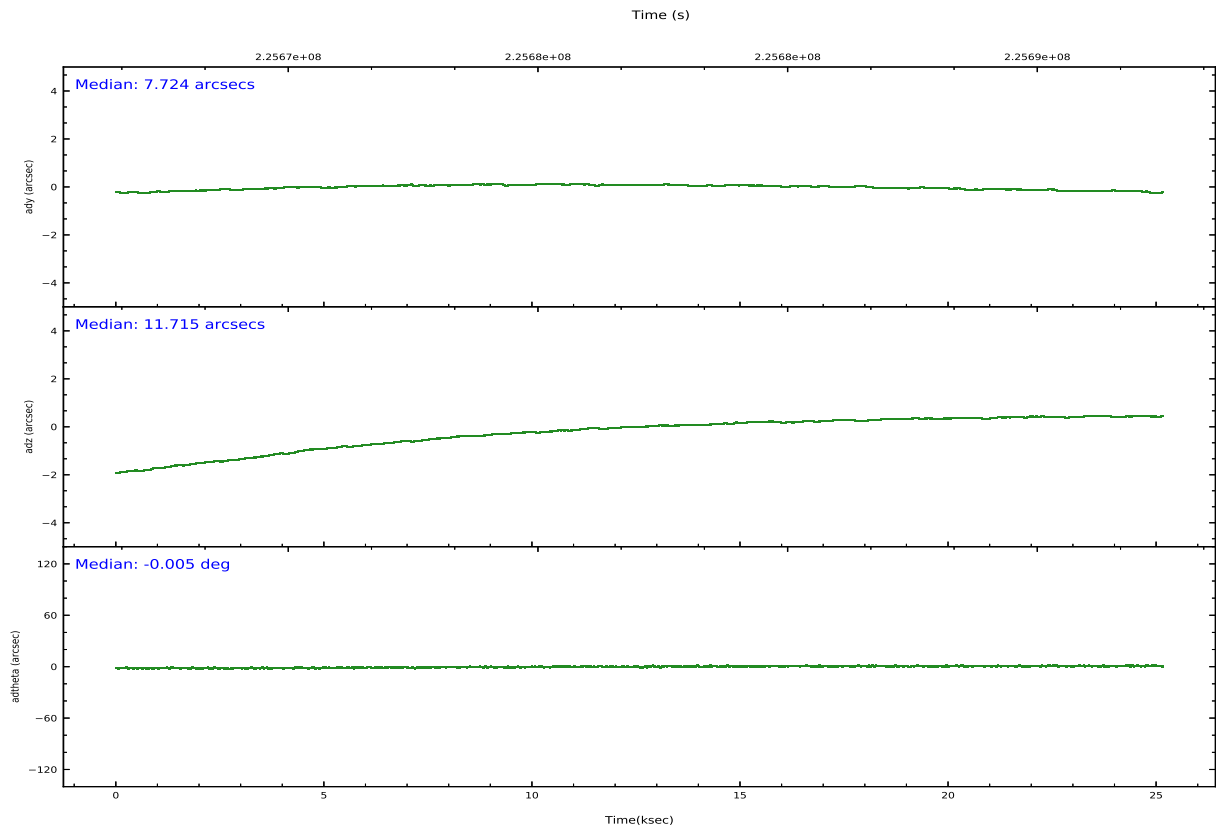
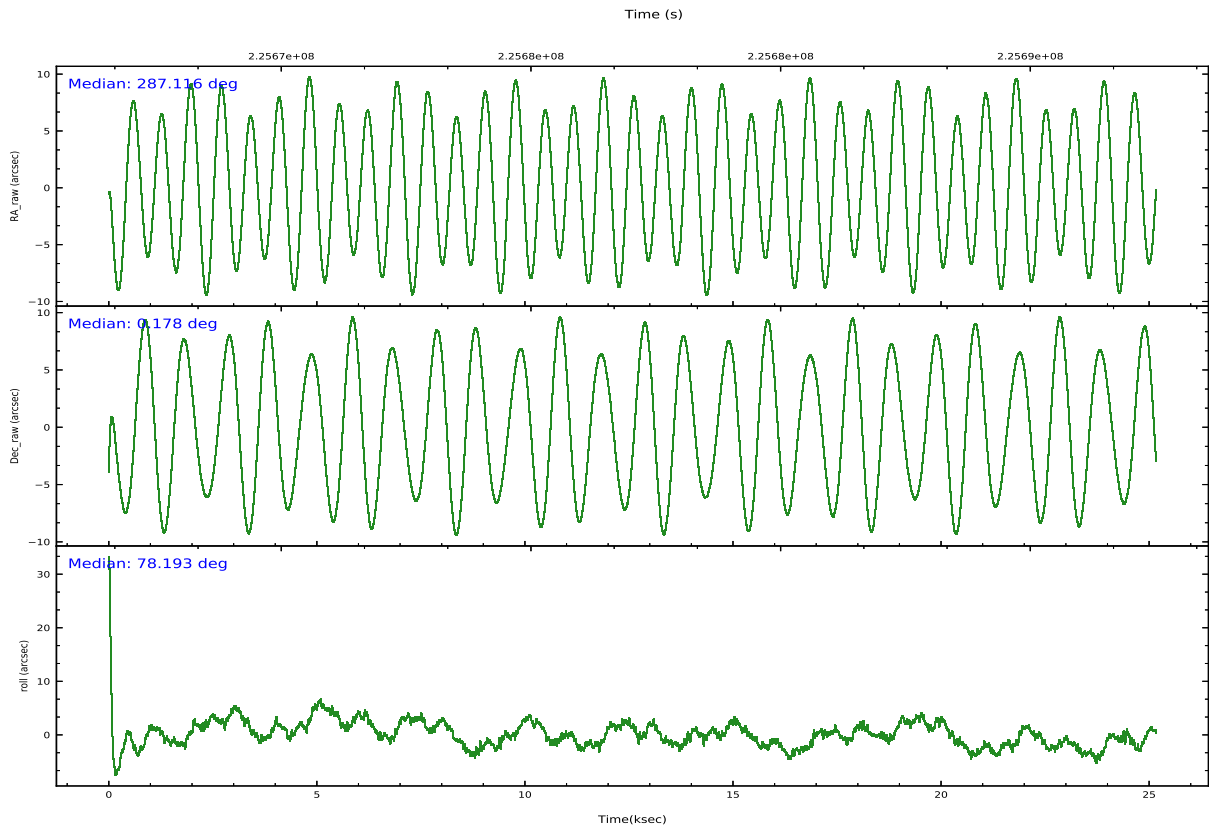
	ccd 3	ccd 6	ccd 7
grade 0 events	10757	10709	10732
	5%	5%	3%
grade 1 events	115	104	257
	0%	0%	0%
grade 2 events	4362	4988	22858
	2%	2%	8%
grade 3 events	2300	2403	10142
	1%	1%	3%
grade 4 events	2269	2424	9932
	1%	1%	3%
grade 5 events	8807	9467	25889
	4%	4%	9%
grade 6 events	4054	4782	60648
	2%	2%	22%
grade 7 events	157306	170870	132434
	82%	83%	48%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-367	ACIS-367	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	287.124956	287.1188707269	Subarray requested	NONE	NONE
[deg] Pointing Dec	0.152115	0.17500078574647	Alternating exposures requested	N	N
[deg] Pointing Roll	78.038975	78.193405518237	[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	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	225666024.184000	225664070.26359			
Observation start date	2005-02-24T20:59:20	2005-02-24T20:27:50			
[s] Observation end time (MET)	225691024.184000	225691670.43984			
Observation end date	2005-02-25T03:56:00	2005-02-25T04:07:50			
Read mode	TIMED	TIMED			

2.3 Aspect





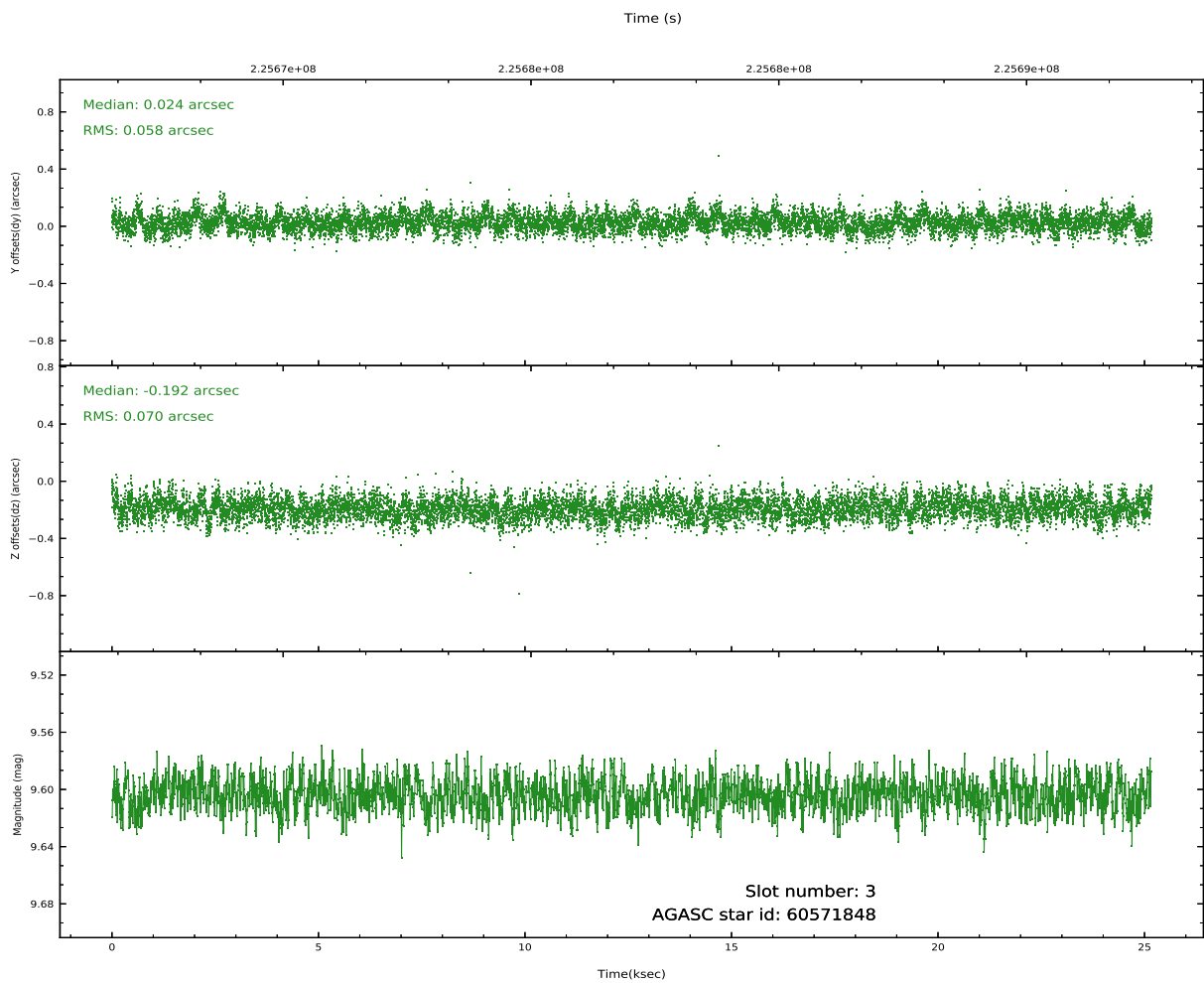
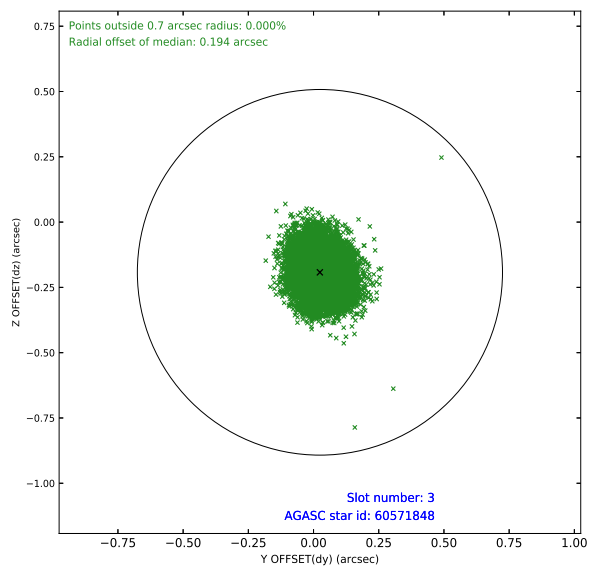
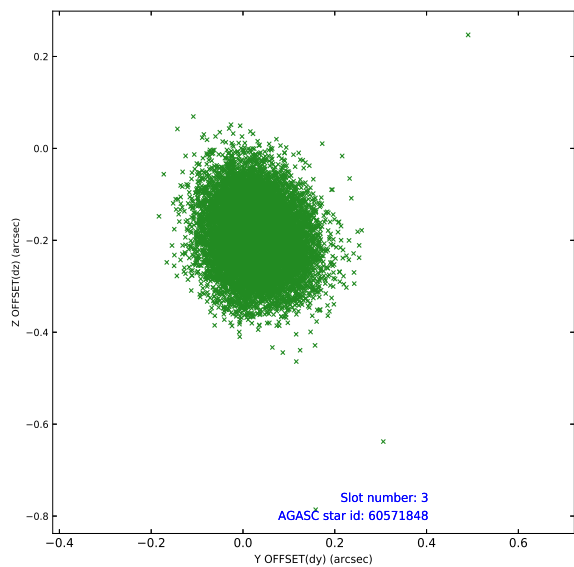
Slot Statistics

slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_x
0	FID		ACIS-S-2	7.10	6139	1.000	-0.090	-0.074	0.010	0.028	0.000000	0.000000	-760.52	-1732
1	FID		ACIS-S-4	7.20	6139	1.000	0.097	0.036	0.009	0.021	0.000000	0.000000	2152.85	175
2	FID		ACIS-S-6	7.34	6138	1.000	-0.032	0.045	0.010	0.016	0.000000	0.000000	401.62	813
3	GUIDE	used	60571848	9.60	12274	1.000	0.024	-0.192	0.096	0.157	286.580175	0.131372	-479.50	1903
4	GUIDE	used	60710592	9.36	12270	1.000	-0.069	-0.132	0.097	0.155	287.035703	0.265770	333.66	399
5	GUIDE	used	60718872	9.38	12274	1.000	-0.108	0.243	0.084	0.137	287.679270	0.108754	261.27	-1984
6	GUIDE	used	672270944	6.81	12279	1.000	0.044	-0.061	0.049	0.077	287.464983	-0.428115	-1789.38	-1630
7	GUIDE	used	672276928	8.46	12278	1.000	0.105	0.145	0.065	0.103	287.532809	-0.439826	-1780.07	-1878

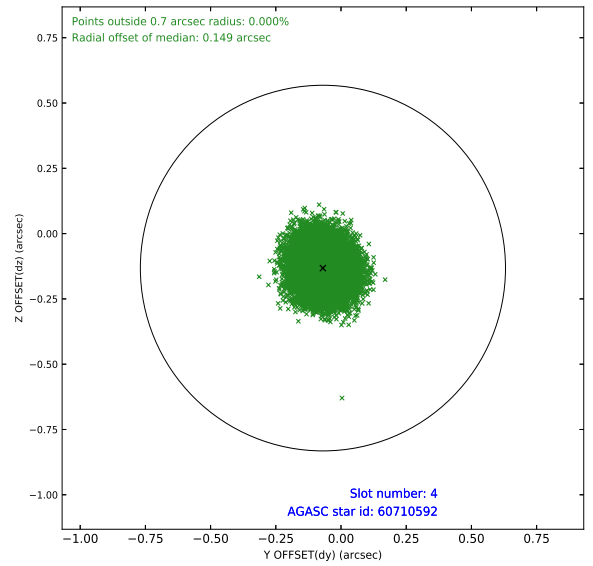
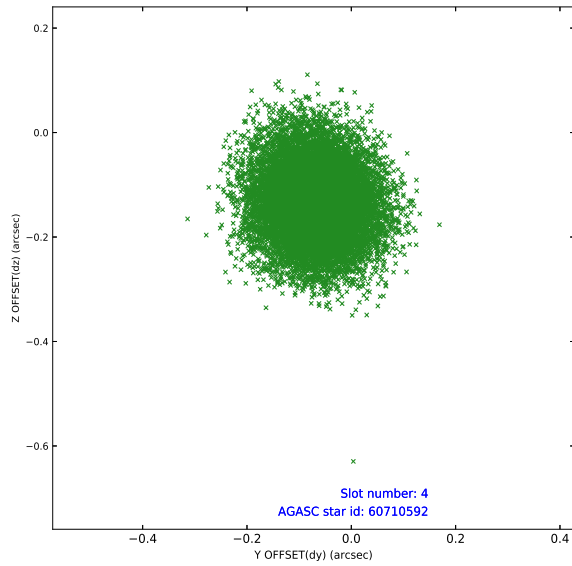
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2.4 Star Slots

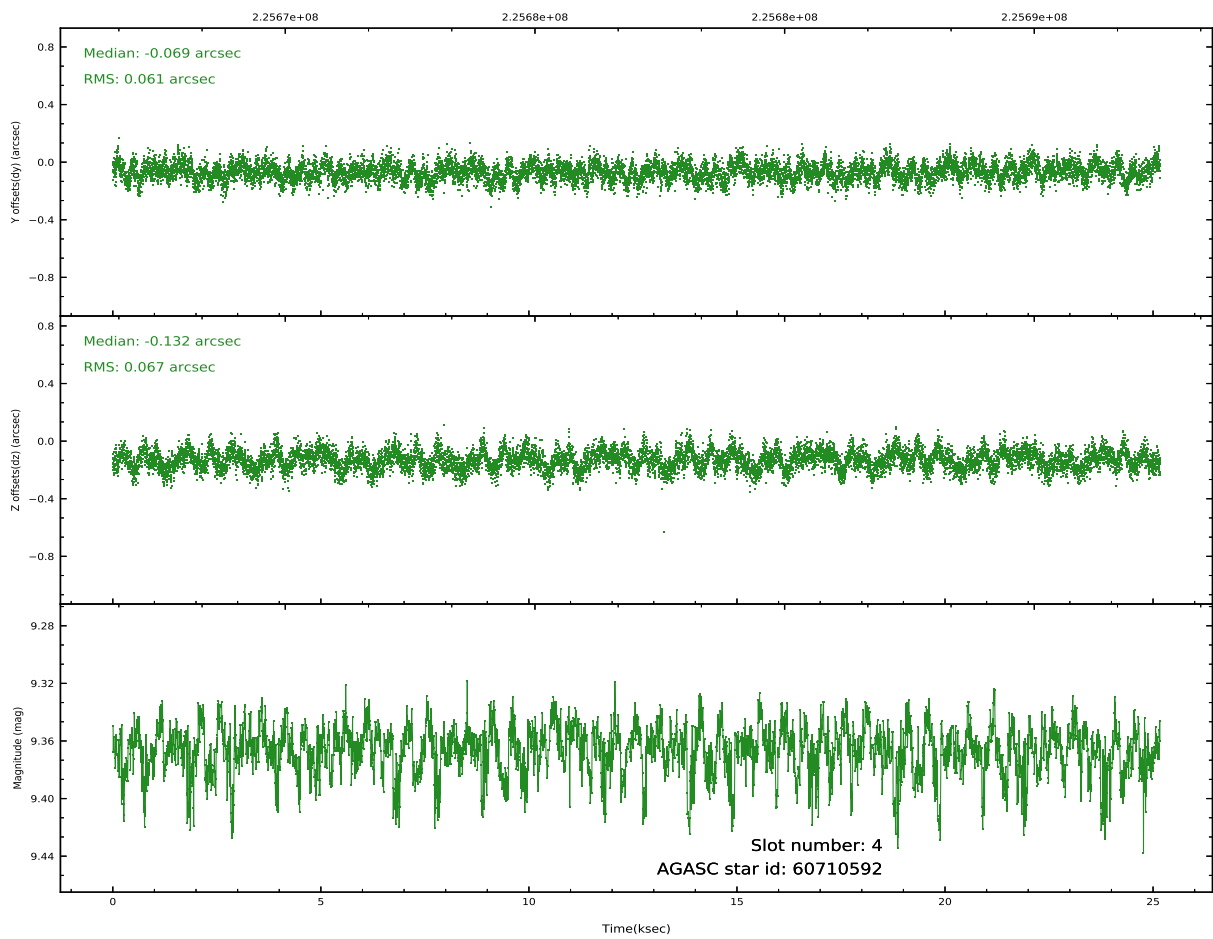
2.4.1 Slot 3



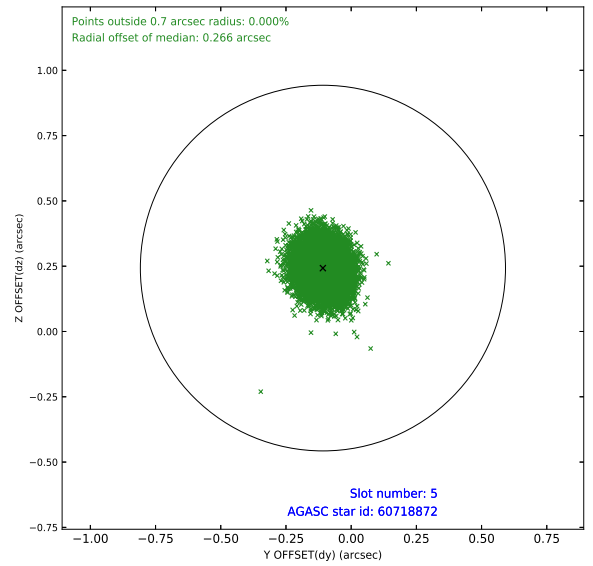
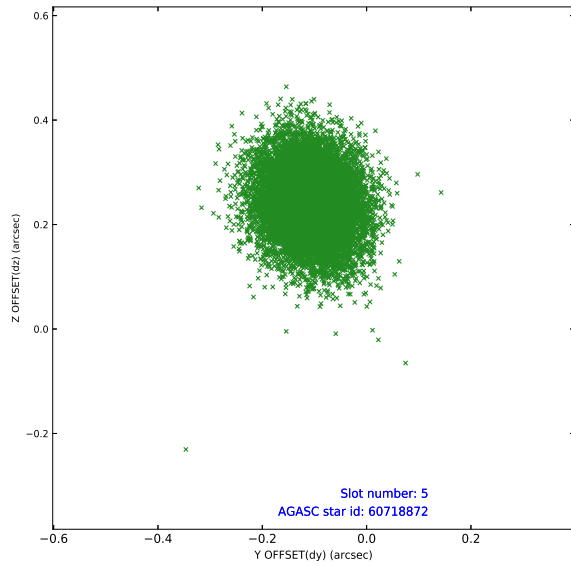
2.4.2 Slot 4



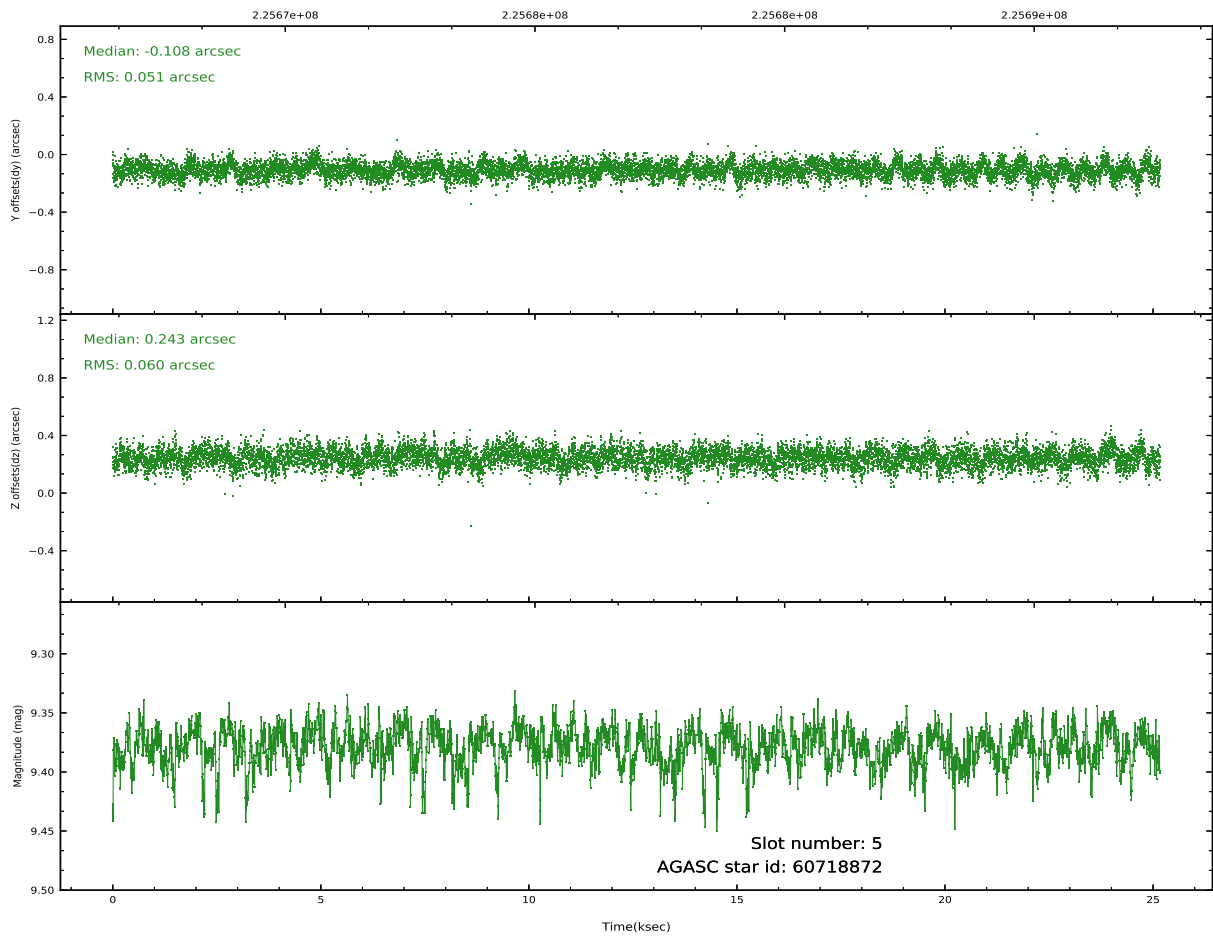
Time (s)



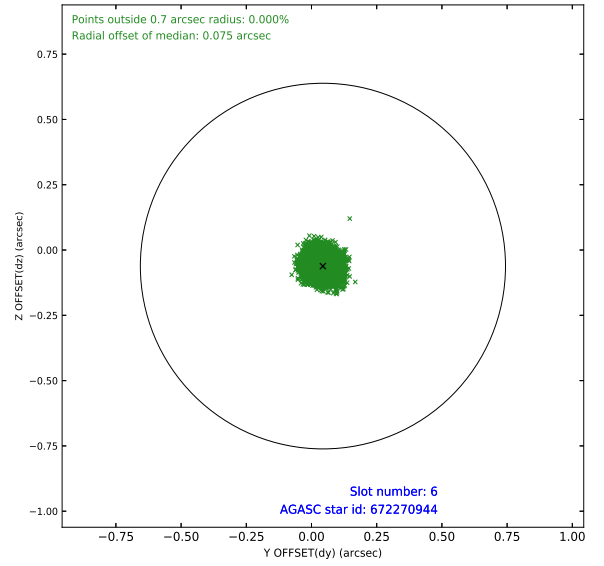
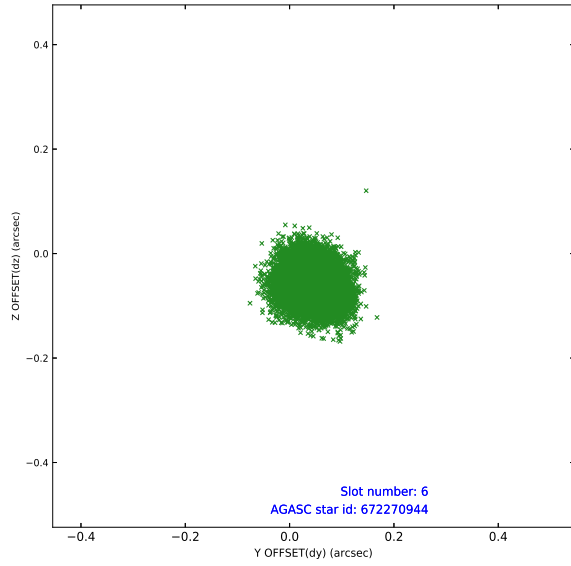
2.4.3 Slot 5



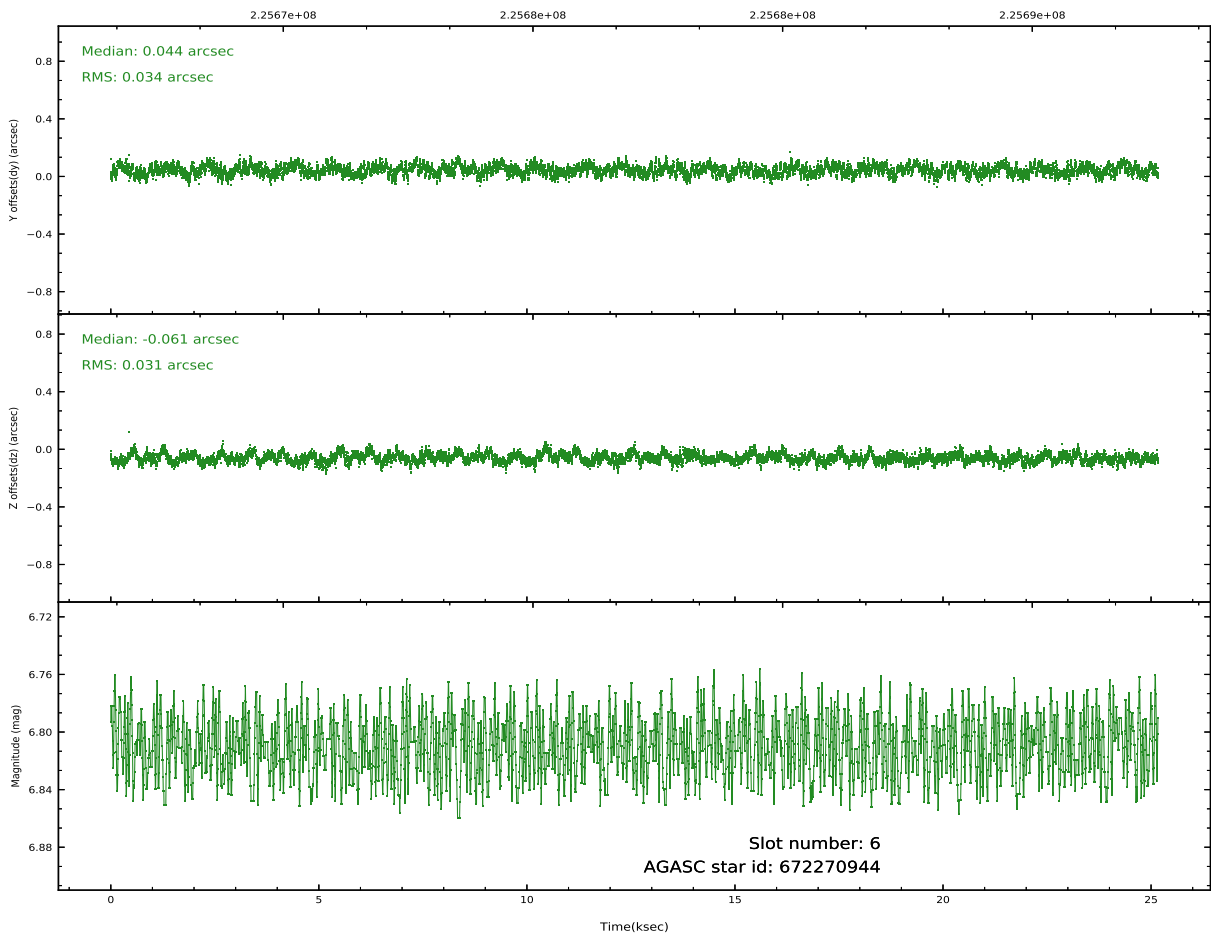
Time (s)



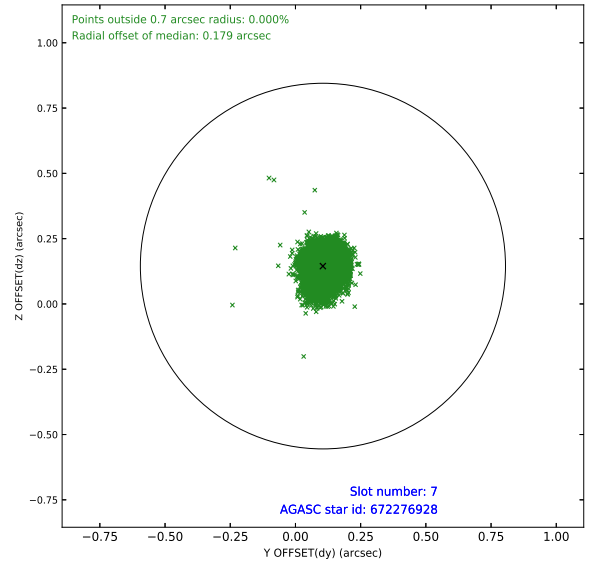
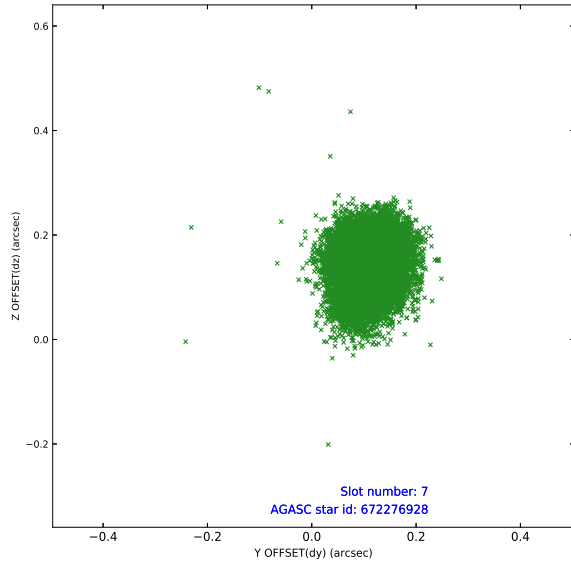
2.4.4 Slot 6



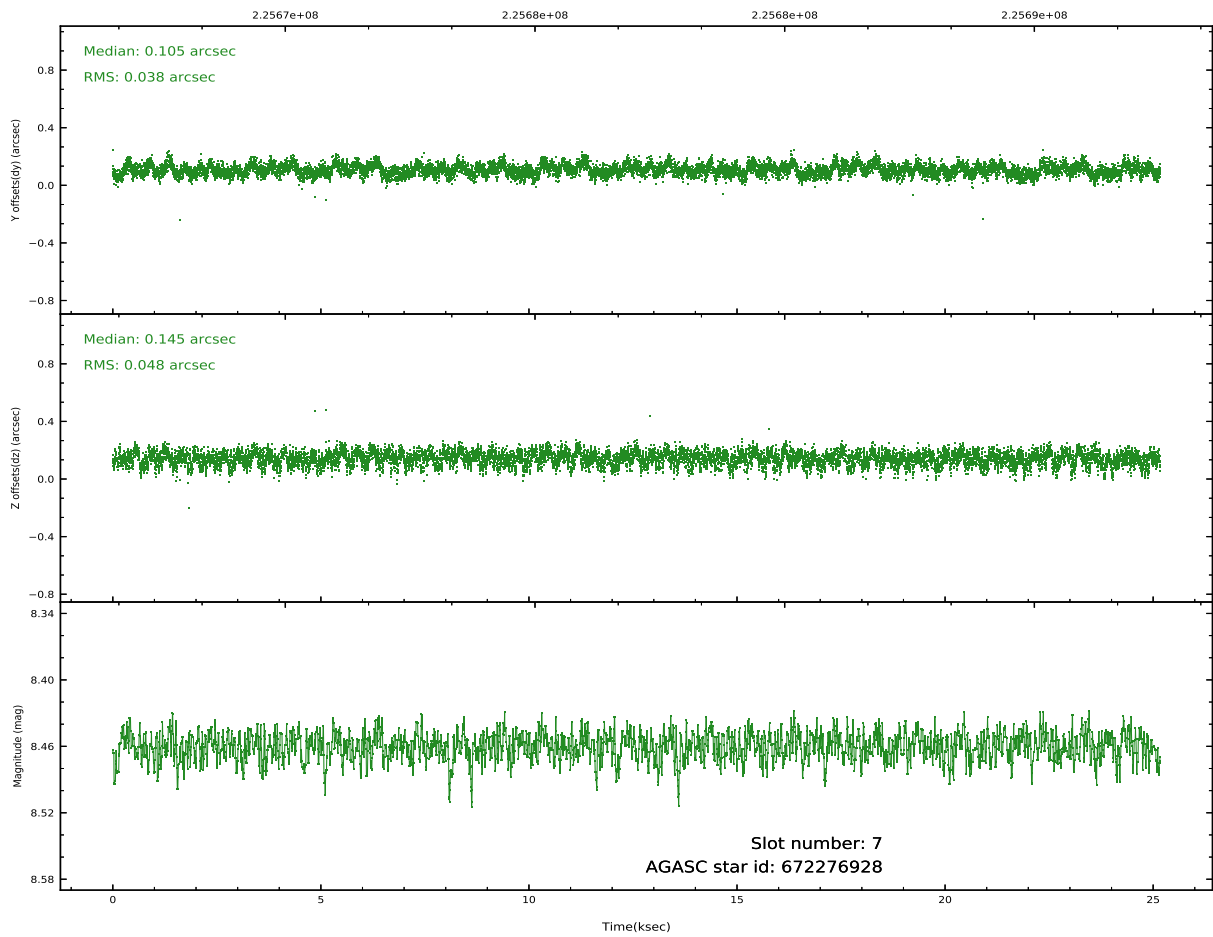
Time (s)



2.4.5 Slot 7

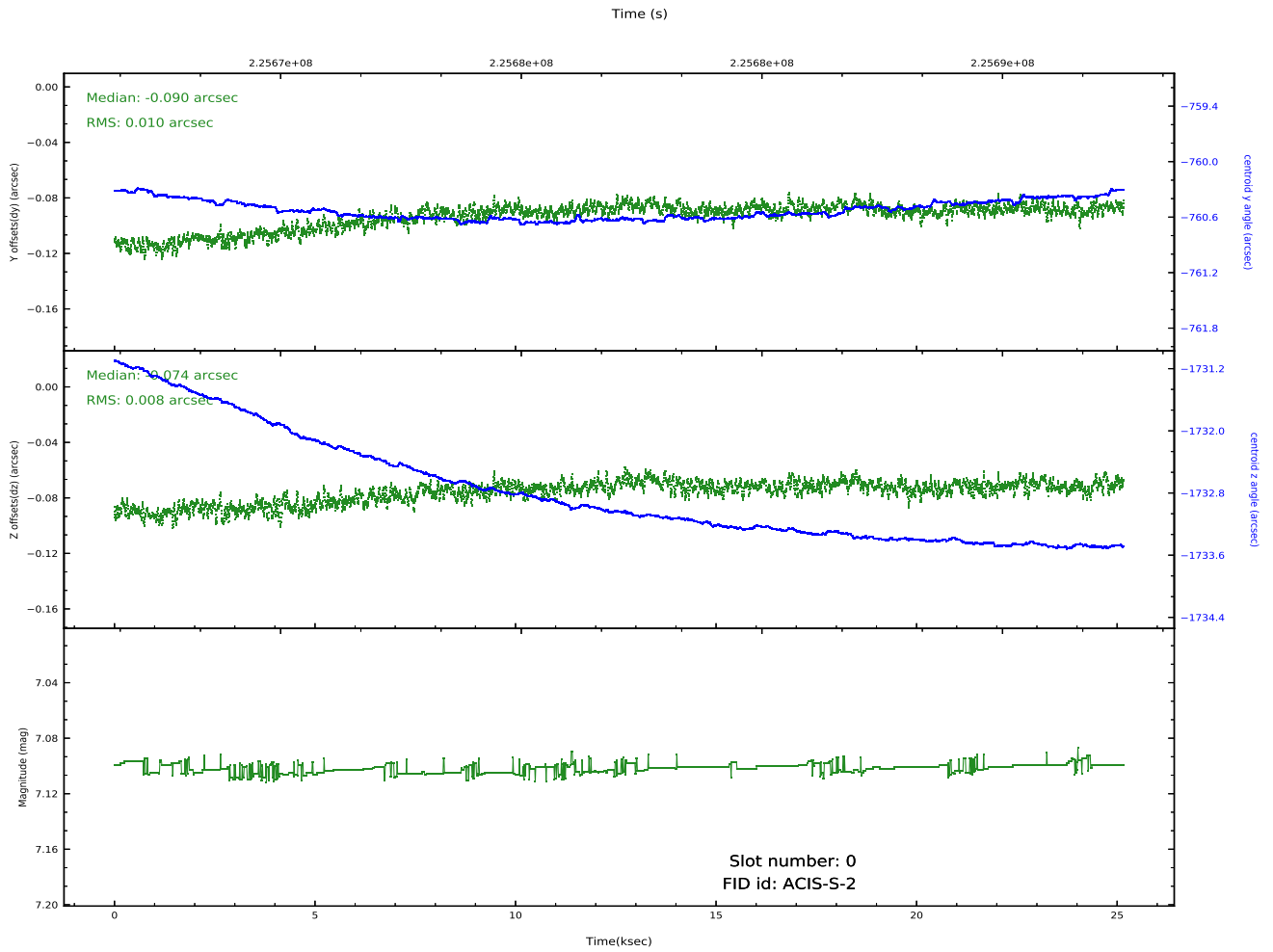
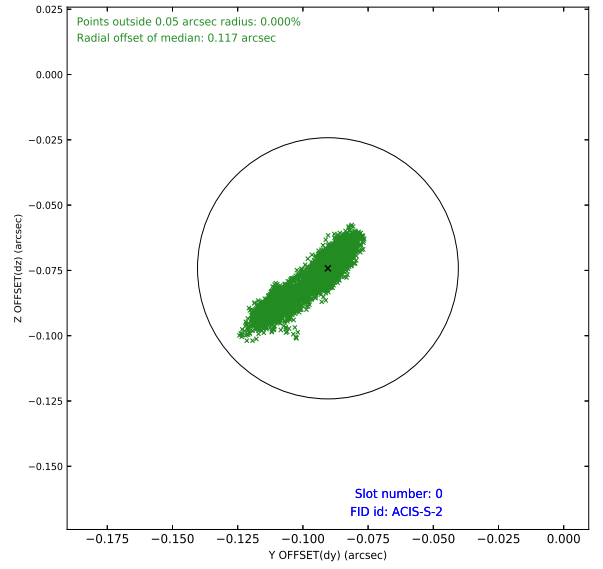
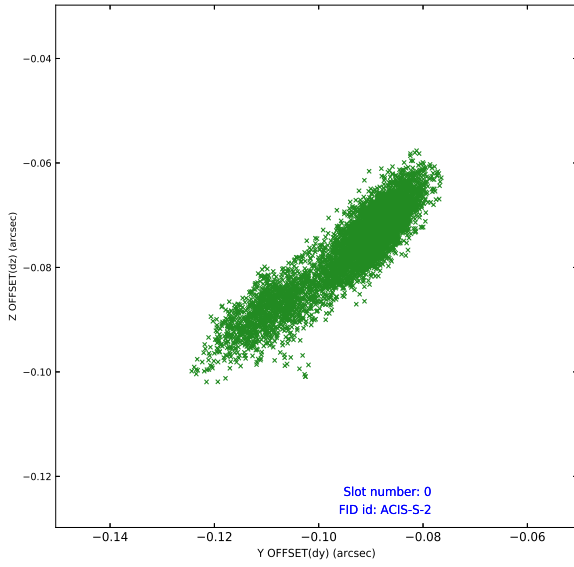


Time (s)

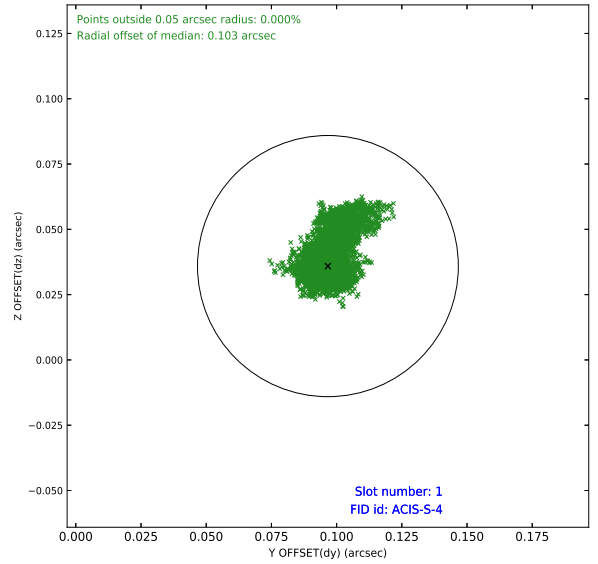
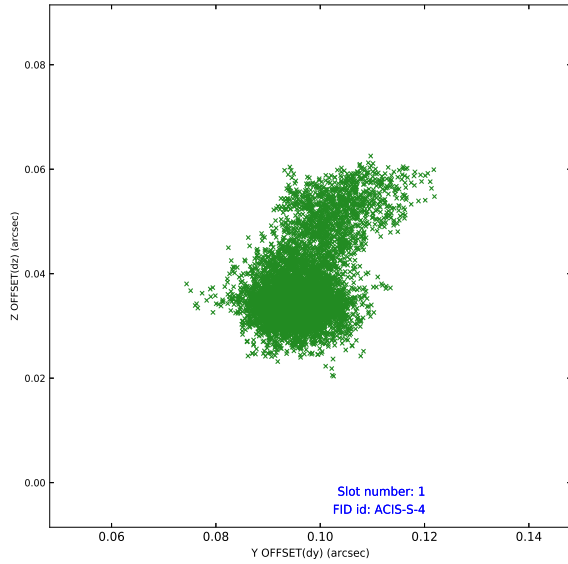


2.5 FID Slots

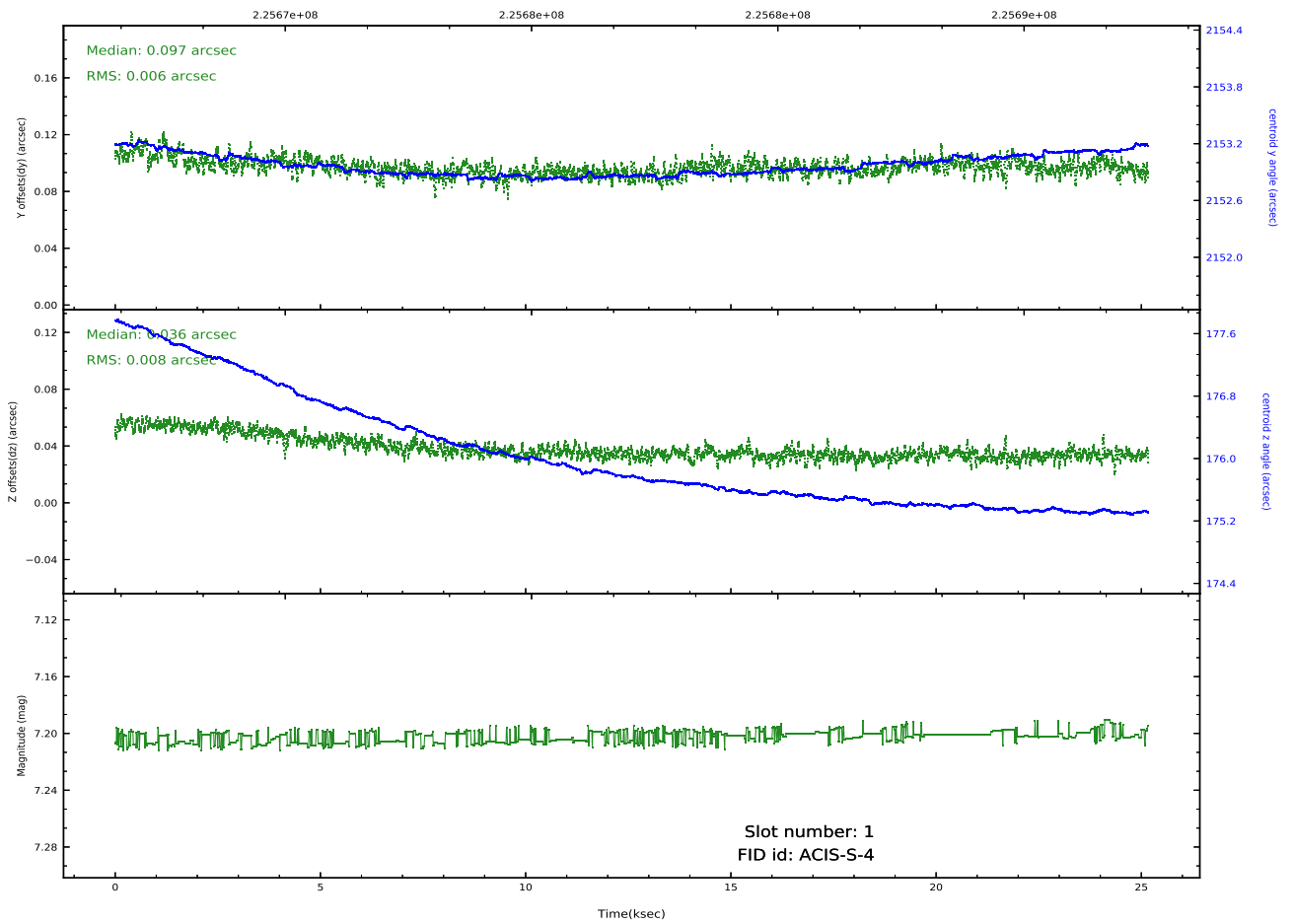
2.5.1 Slot 0



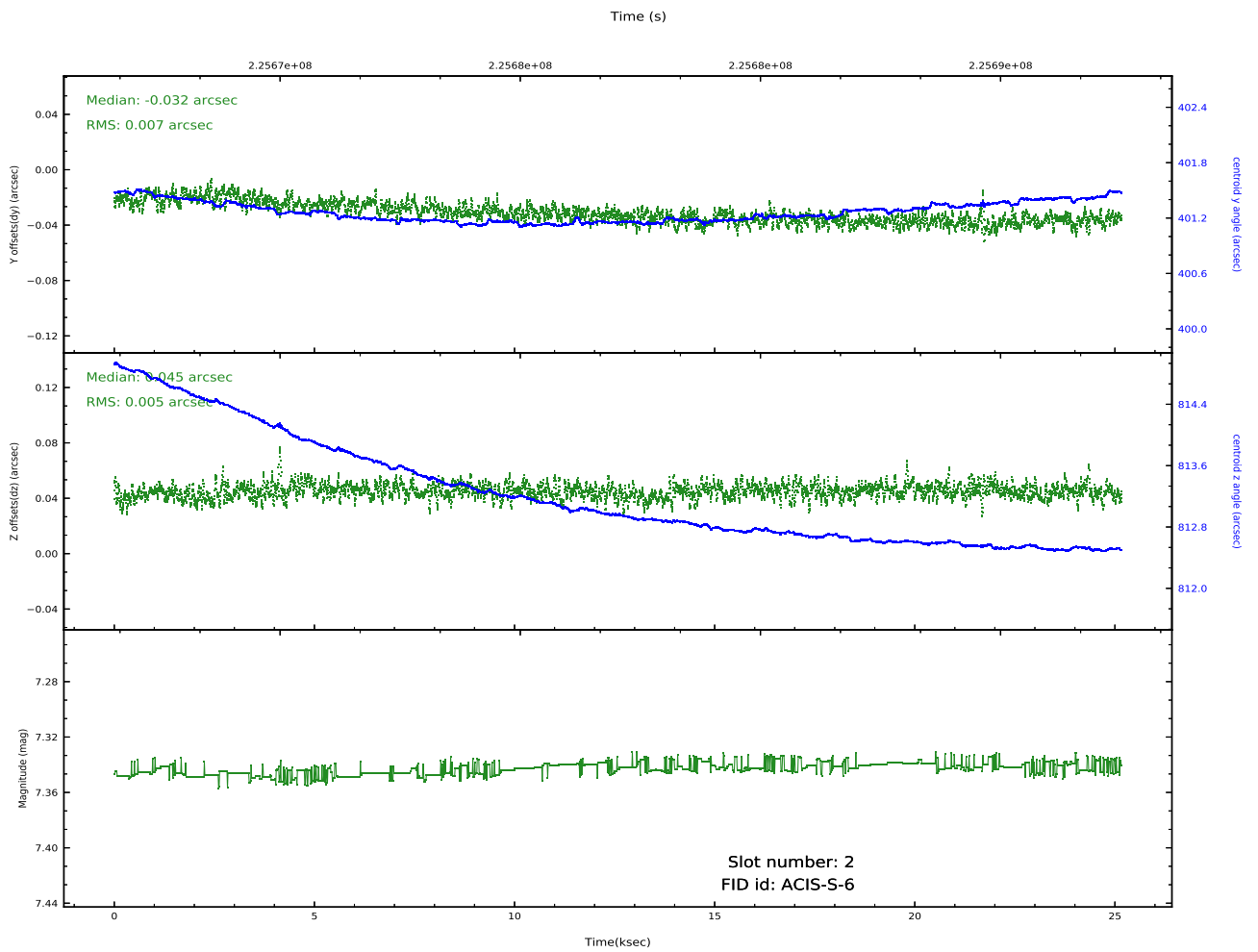
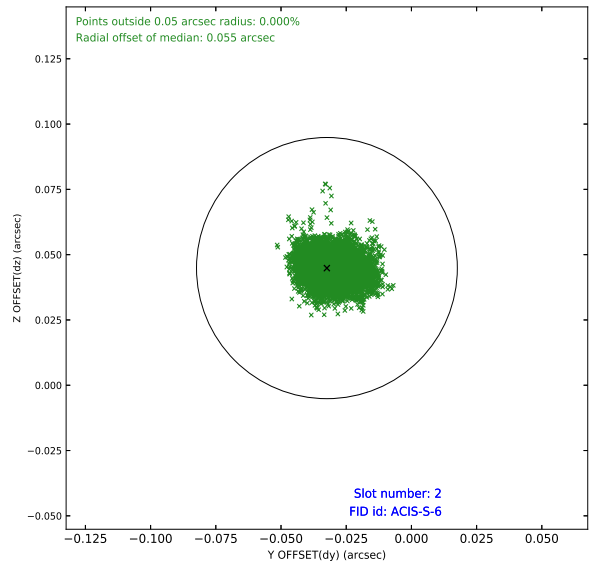
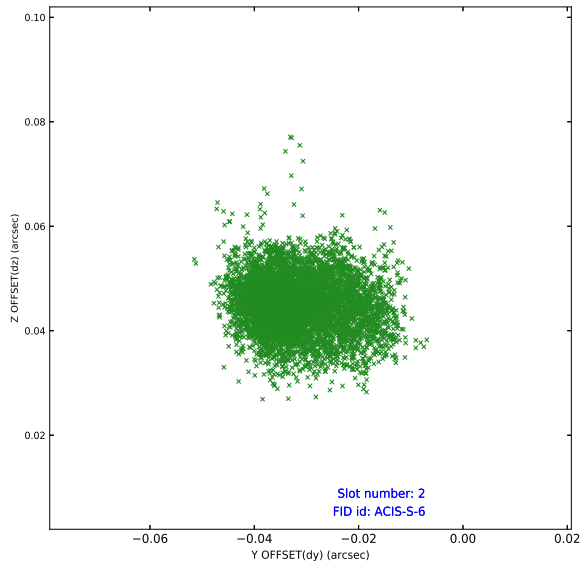
2.5.2 Slot 1



Time (s)



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2020.10.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	25.16579

A.2 Comments