

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 4821 - L2 Version 4
Chandra X-Ray Center

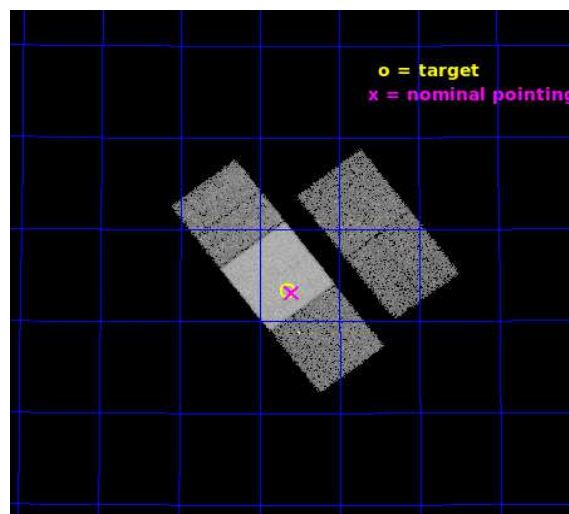
L2 Processing Date : Sep 24 2020

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1 Front

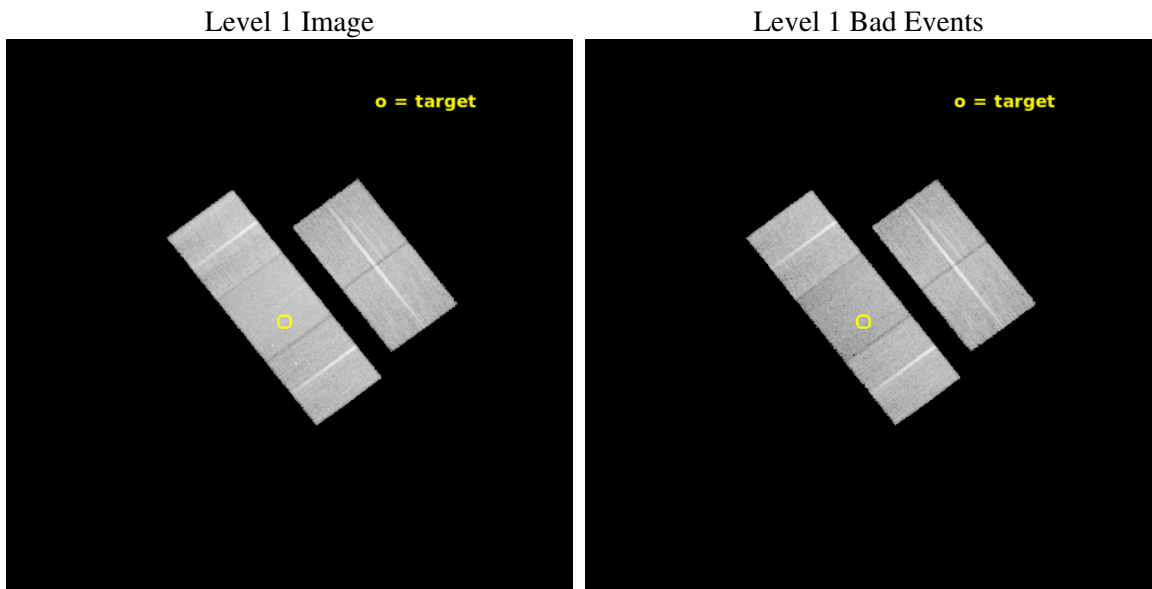
seq_num	700903	Sequence number
obs_id	4821	Observation id
title	Destroying Degeneracy: Spanning the Luminosity Range for Radio-Quiet Quasars at z=4	Proposal title
observer	Dr. Jill Bechtold	Principal investigator
object	QSO 0910+564	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	138.66375	Observer's specified target RA [deg]
dec_targ	56.2225	Observer's specified target Dec [deg]
ra_nom	138.64915350886	Nominal RA [deg]
dec_nom	56.219087451878	Nominal Dec [deg]
roll_nom	232.63282703479	Nominal Roll [deg]
revision	4	Processing version of data
ontime	23299.599955171	Sum of GTIs [s]
livetime	22995.173528841	Livetime [s]
ontime2	23293.318024606	Sum of GTIs [s]
ontime3	23299.599955171	Sum of GTIs [s]
ontime6	23296.458984941	Sum of GTIs [s]
ontime7	23299.599955171	Sum of GTIs [s]
ontime8	23296.458984911	Sum of GTIs [s]
l2events	112900	Number of level 2 events



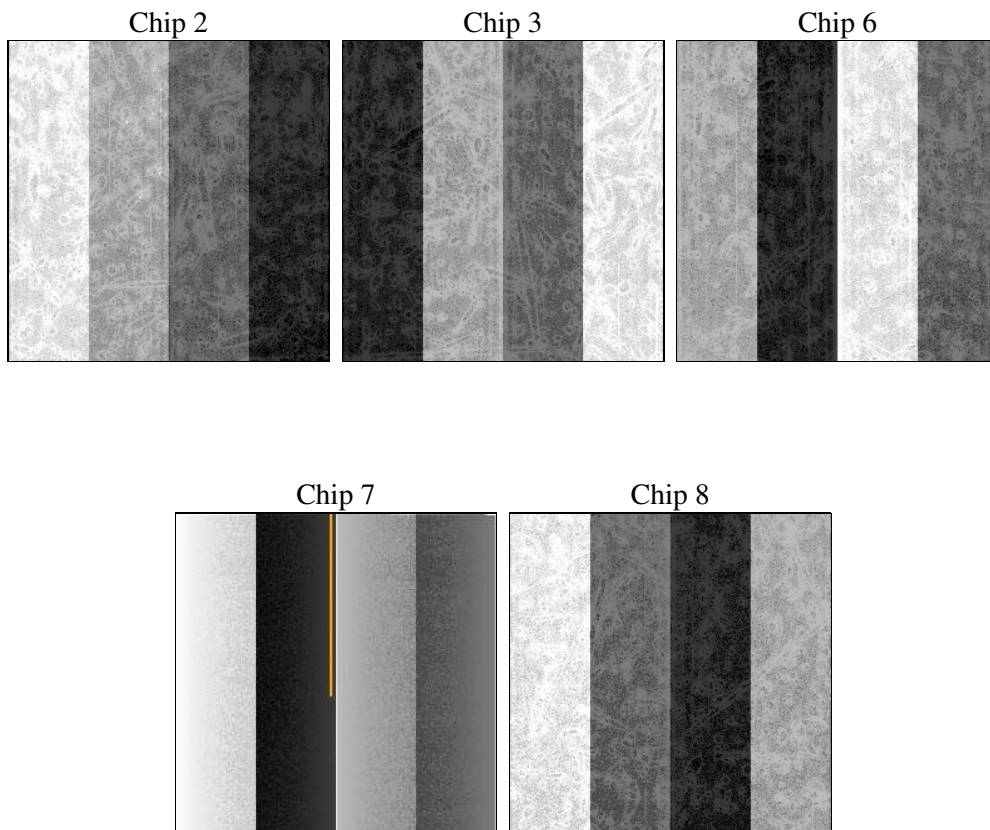
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	23200.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	23299.599955171	Sum of GTIs [s]
caldbver	4.9.2	 	ontime2	23293.318024606	Sum of GTIs [s]
date	2020-09-24T12:51:58	Date and time of file creation	ontime3	23299.599955171	Sum of GTIs [s]
revision	4	Processing version of data	ontime6	23296.458984941	Sum of GTIs [s]
			ontime7	23299.599955171	Sum of GTIs [s]
			ontime8	23296.458984911	Sum of GTIs [s]
			l1events	717969	Number of level 1 events

2.1.4 Events

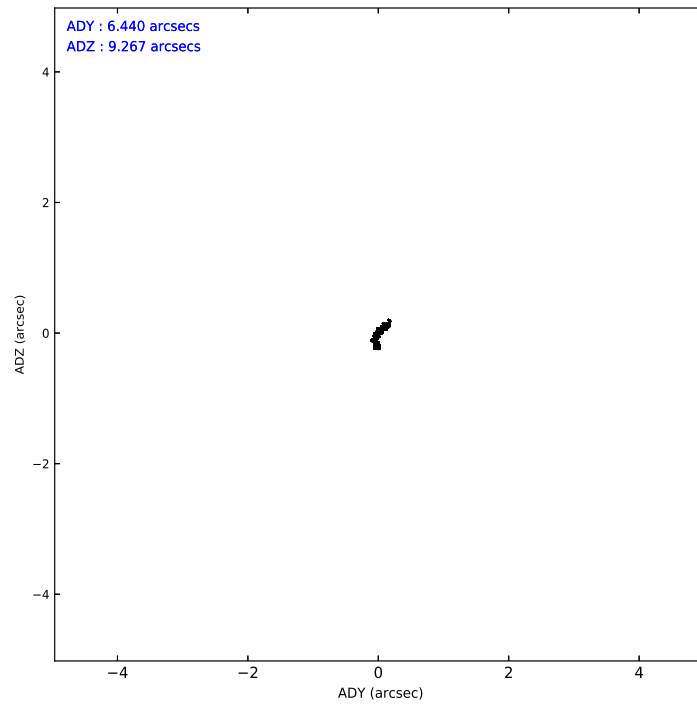
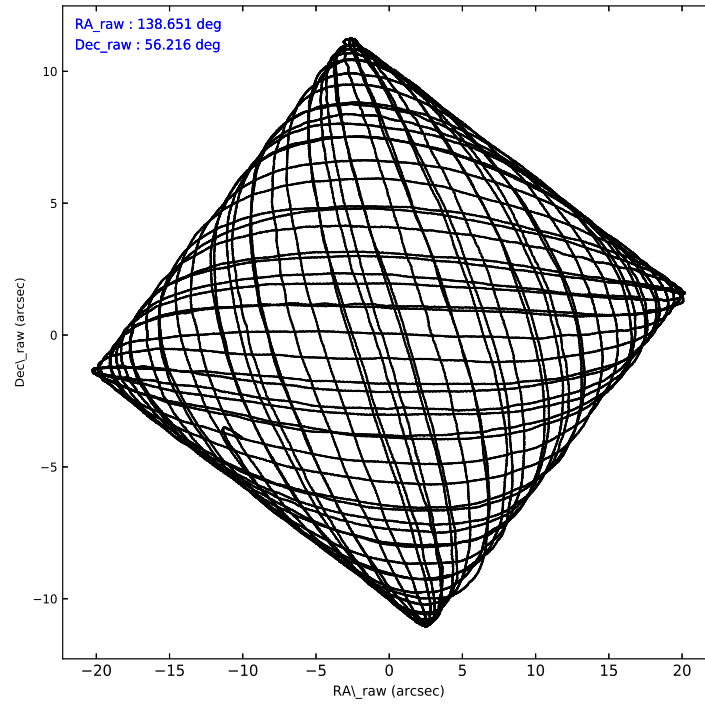
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	132392	129619	138135	149188	168635
rejected events	119910	117384	123972	81621	132101
rejected %	90%	90%	89%	54%	78%

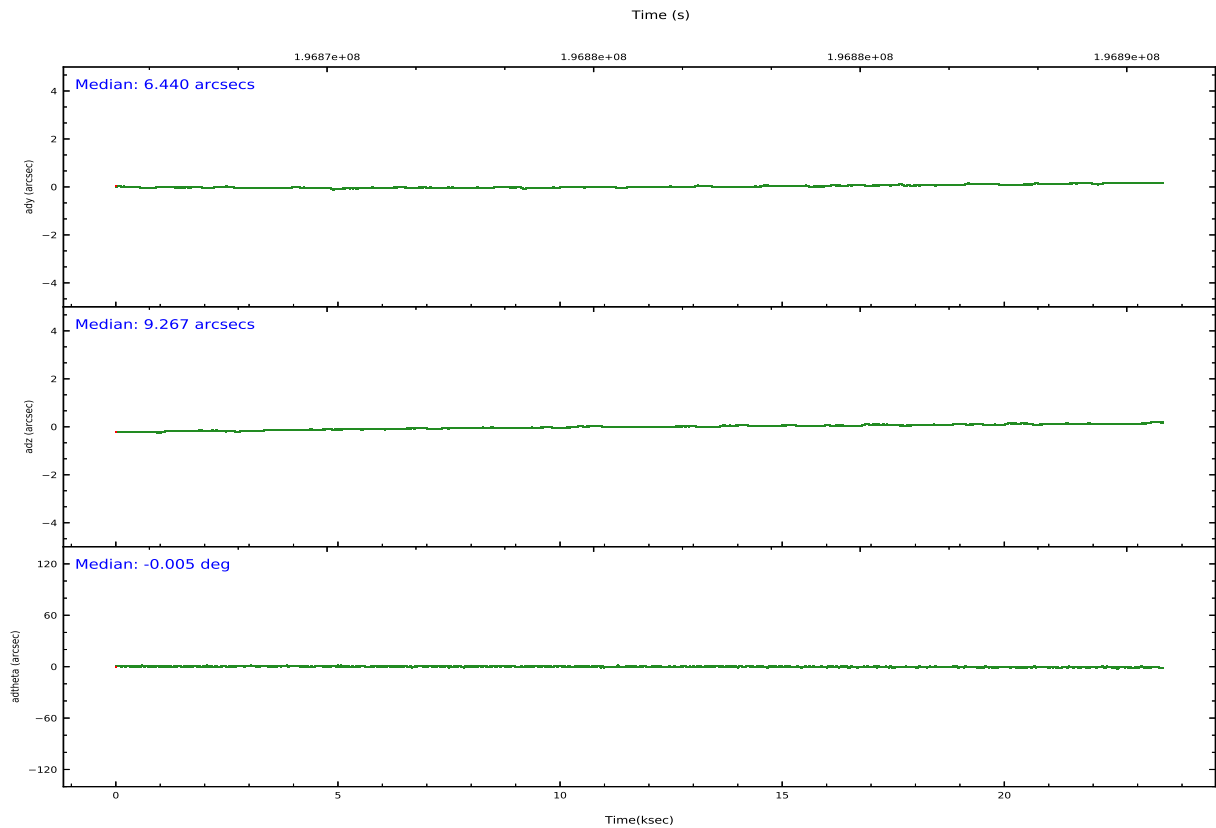
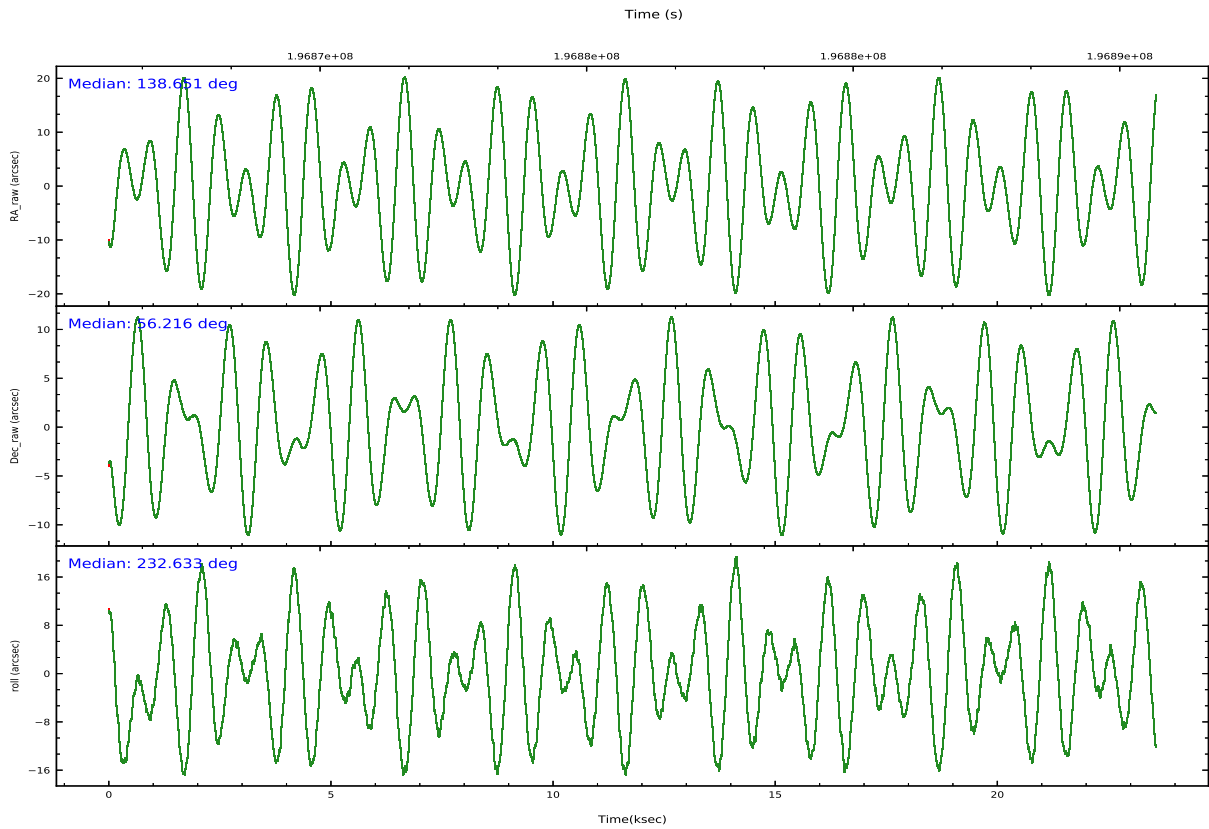
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	4390	4197	5089	6021	11191
	3%	3%	3%	4%	6%
grade 1 events	76	74	72	125	130
	0%	0%	0%	0%	0%
grade 2 events	2799	2597	2999	13652	8113
	2%	2%	2%	9%	4%
grade 3 events	1487	1528	1652	6500	3896
	1%	1%	1%	4%	2%
grade 4 events	1434	1410	1520	6396	3676
	1%	1%	1%	4%	2%
grade 5 events	4341	5027	5471	15864	7634
	3%	3%	3%	10%	4%
grade 6 events	2377	2507	2905	35015	9663
	1%	1%	2%	23%	5%
grade 7 events	115488	112279	118427	65615	124332
	87%	86%	85%	43%	73%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-23678	ACIS-23678	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	138.656566	138.64915350886	Subarray requested	NONE	NONE
[deg] Pointing Dec	56.243005	56.219087451878	Alternating exposures requested	N	N
[deg] Pointing Roll	232.470891	232.63282703479	[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	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	196865620.184000	196864564.02869			
Observation start date	2004-03-28T12:52:36	2004-03-28T12:36:04			
[s] Observation end time (MET)	196888820.184000	196889444.87978			
Observation end date	2004-03-28T19:19:16	2004-03-28T19:30:44			
Read mode	TIMED	TIMED			

2.3 Aspect



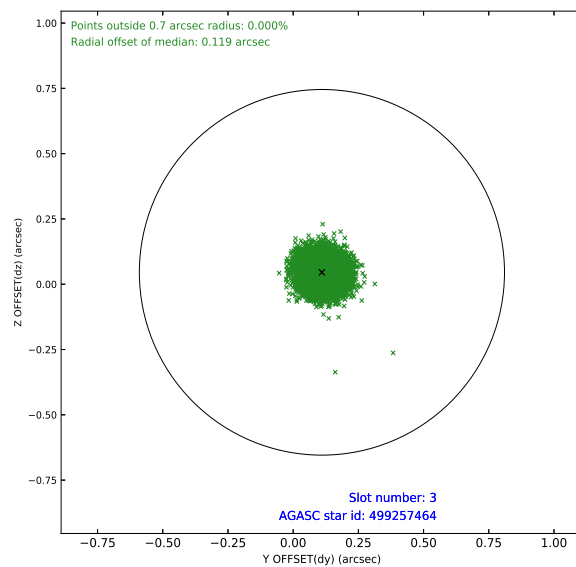
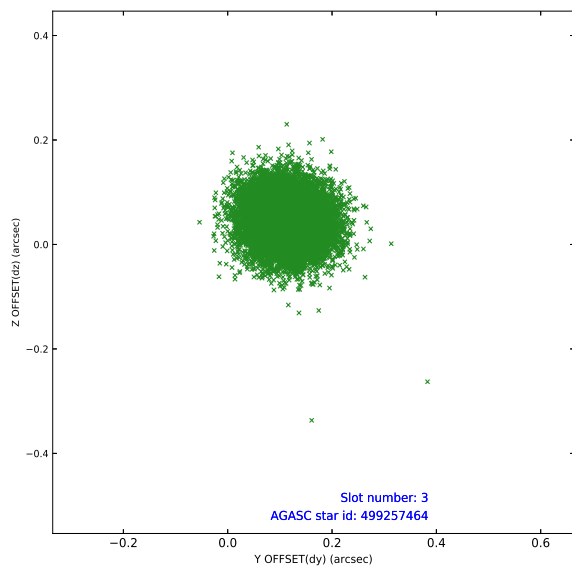


Slot Statistics

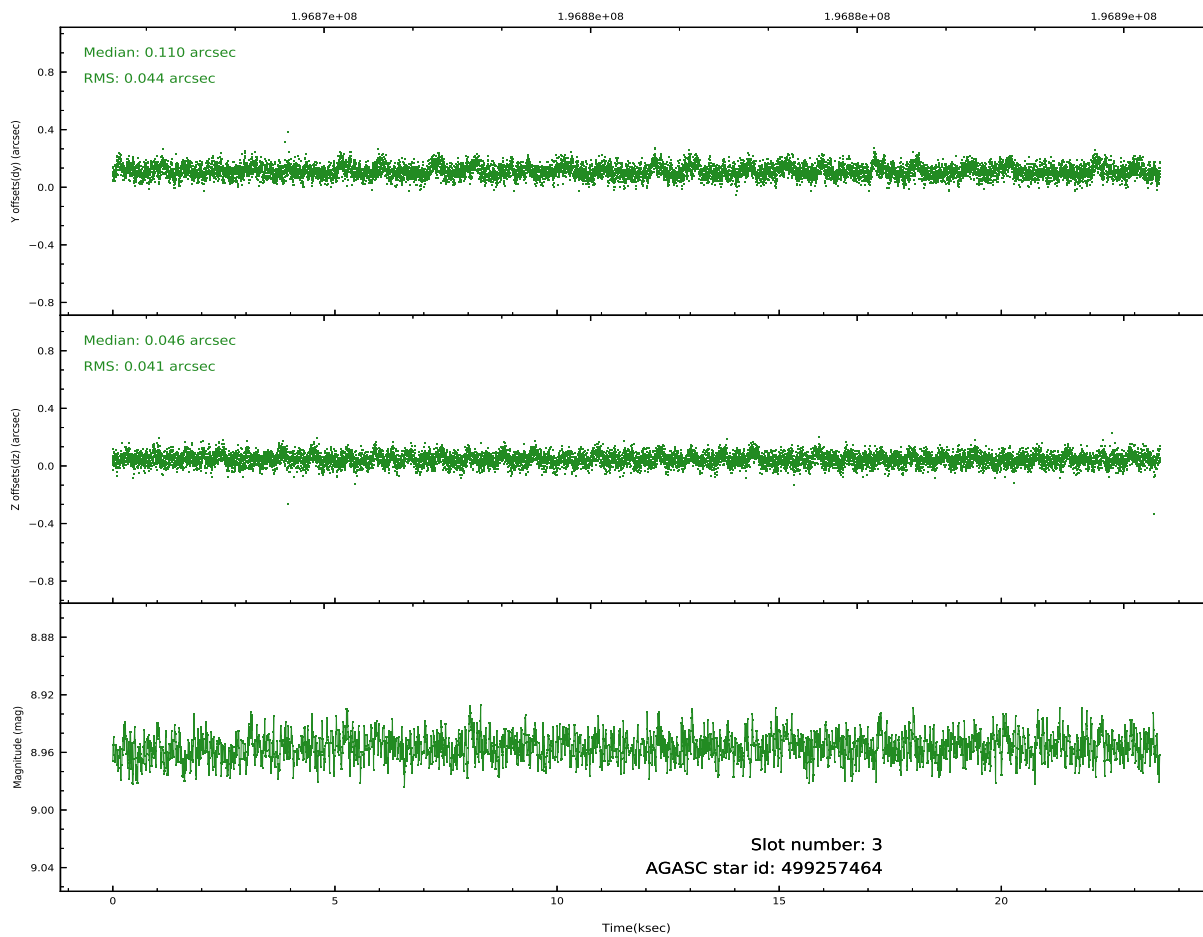
slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_x
0	FID		ACIS-S-2	7.09	5751	1.000	-0.111	-0.082	0.006	0.011	0.000000	0.000000	-759.29	-1730
1	FID		ACIS-S-4	7.20	5751	1.000	0.091	0.062	0.007	0.011	0.000000	0.000000	2154.11	177
2	FID		ACIS-S-6	7.35	5751	1.000	-0.008	0.027	0.007	0.011	0.000000	0.000000	402.94	815
3	GUIDE	used	499257464	8.96	11496	1.000	0.110	0.046	0.064	0.102	138.627188	55.900178	1015.14	705
4	GUIDE	used	499259248	7.96	11500	1.000	0.112	0.102	0.058	0.092	138.715022	55.620218	1706.07	1460
5	GUIDE	used	499261384	9.43	11497	1.000	-0.098	-0.149	0.091	0.145	138.636550	56.210569	117.28	39
6	GUIDE	used	499261608	8.87	11494	1.000	-0.060	0.114	0.068	0.111	138.977392	56.064652	115.49	901
7	GUIDE	used	499263632	9.01	11489	1.000	-0.068	-0.116	0.081	0.128	138.052870	56.804949	-883.33	-2179

2.4 Star Slots

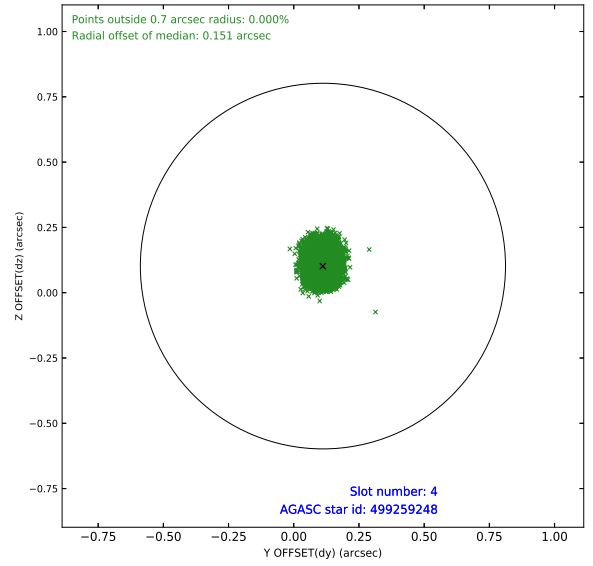
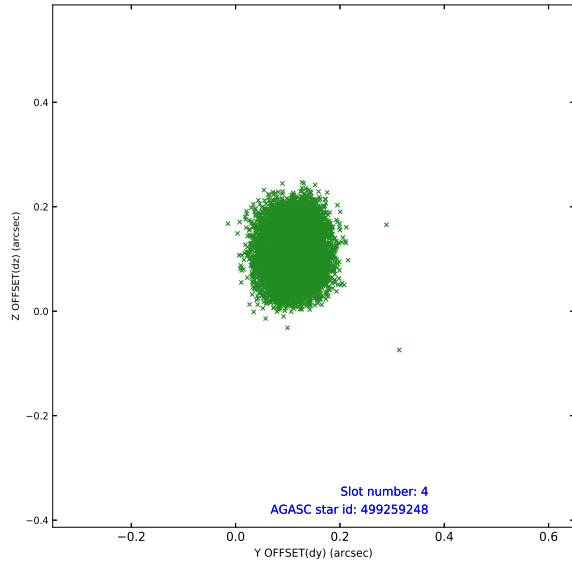
2.4.1 Slot 3



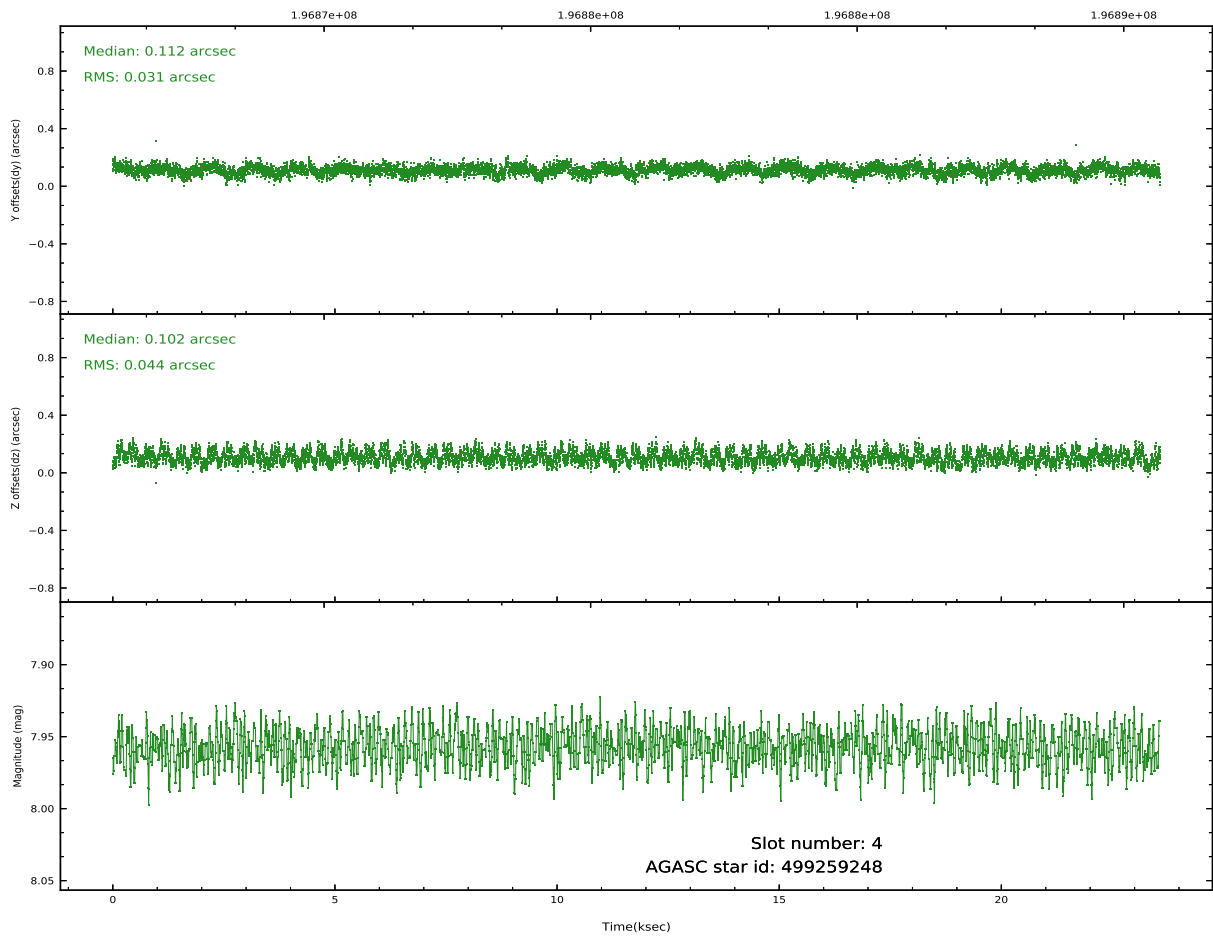
Time (s)



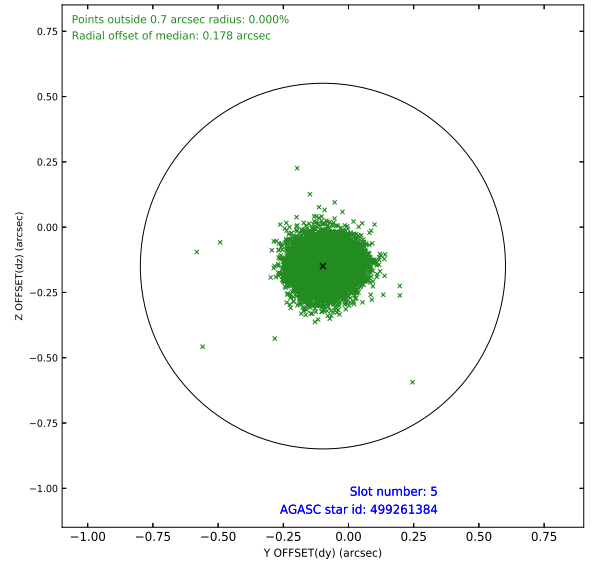
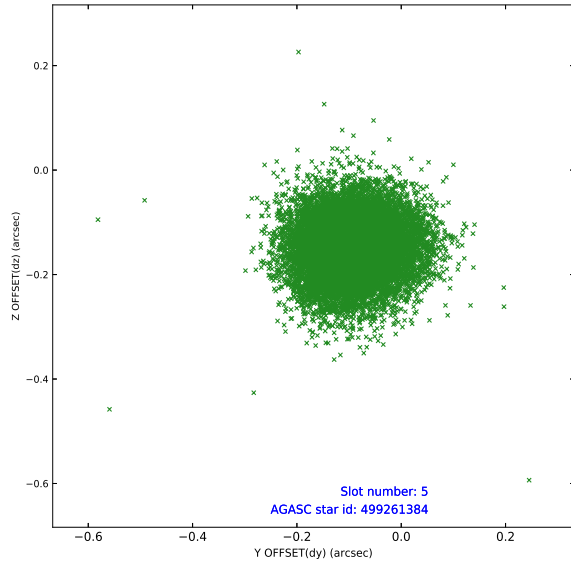
2.4.2 Slot 4



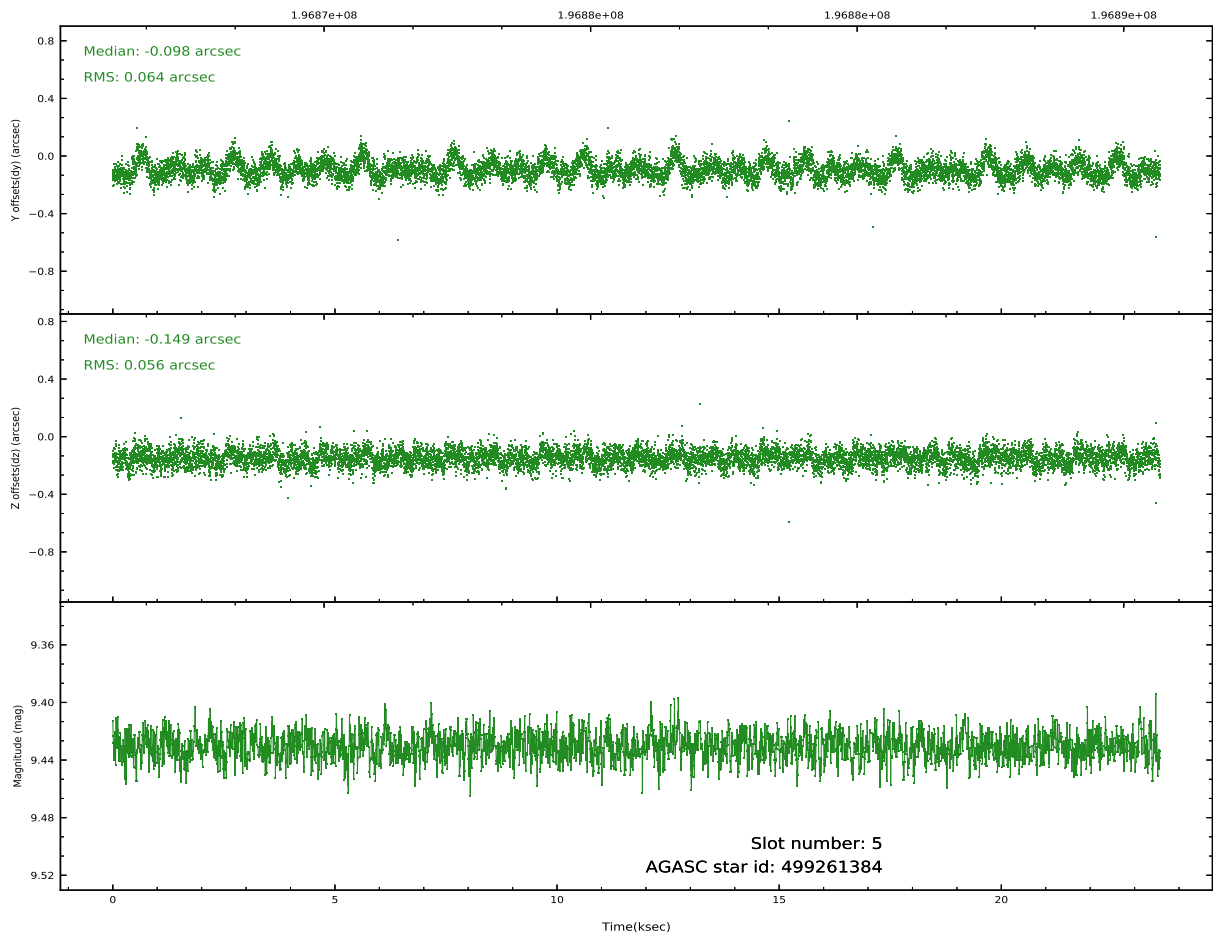
Time (s)



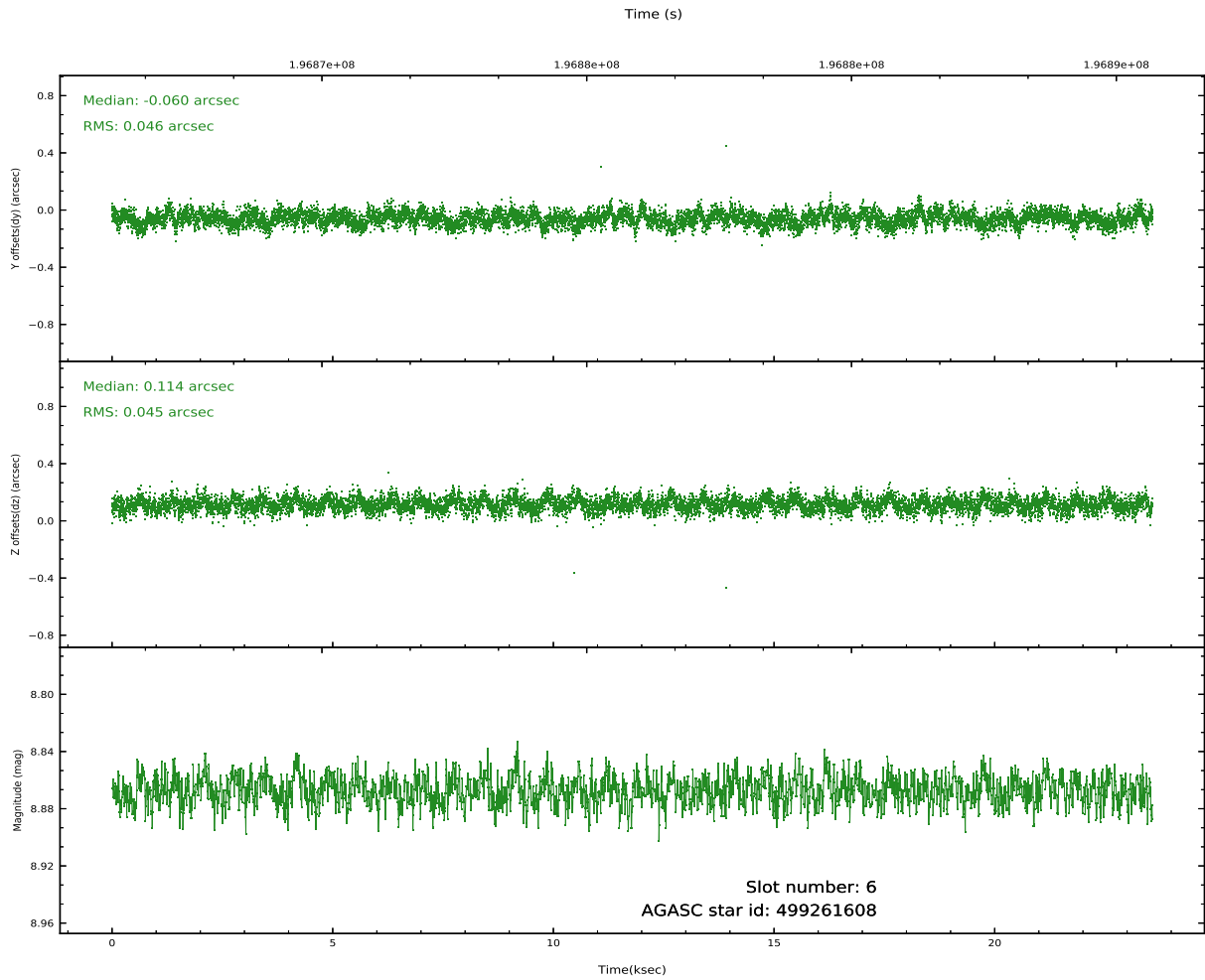
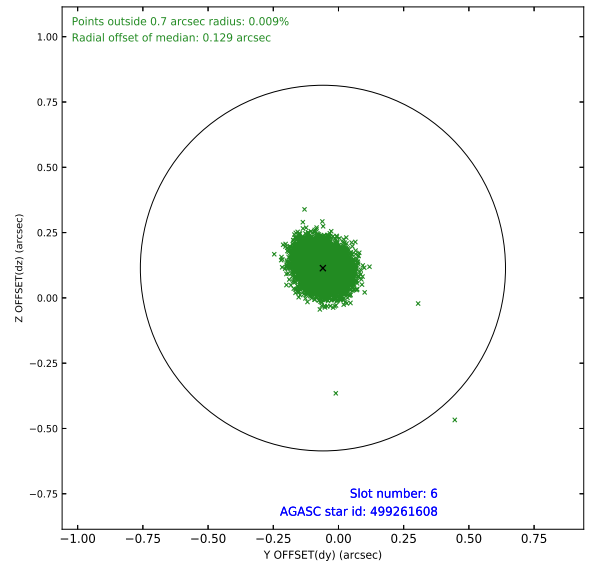
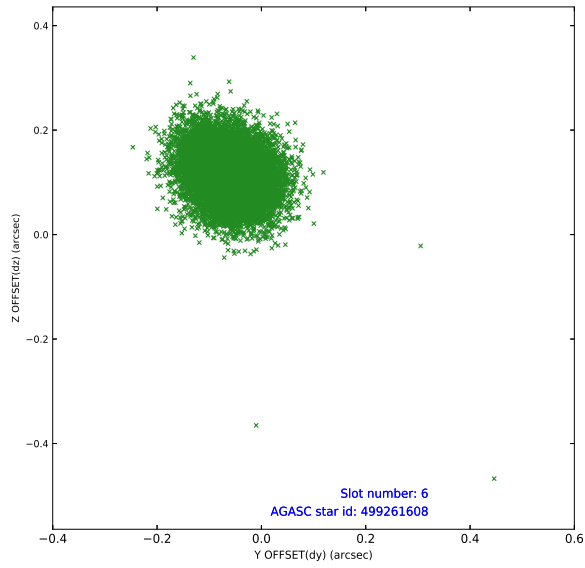
2.4.3 Slot 5



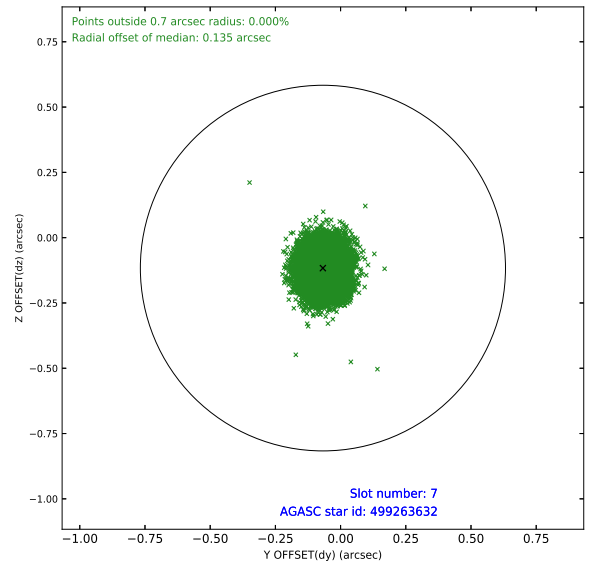
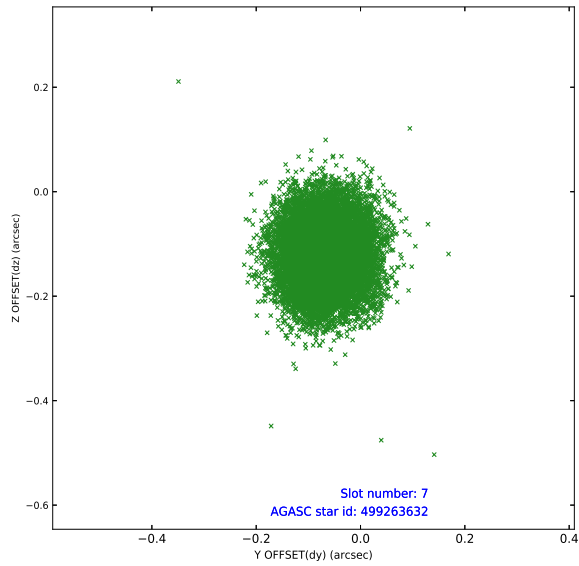
Time (s)



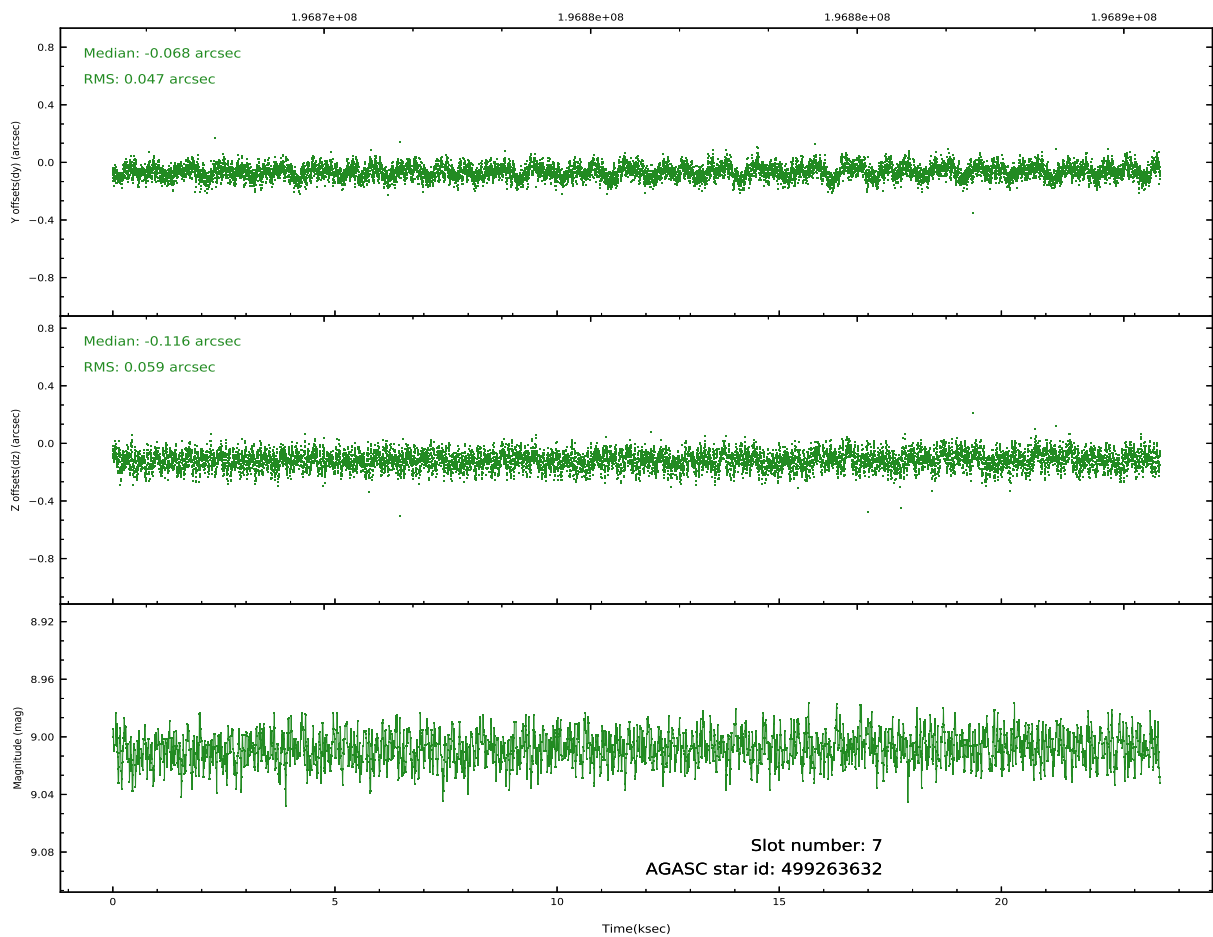
2.4.4 Slot 6



2.4.5 Slot 7

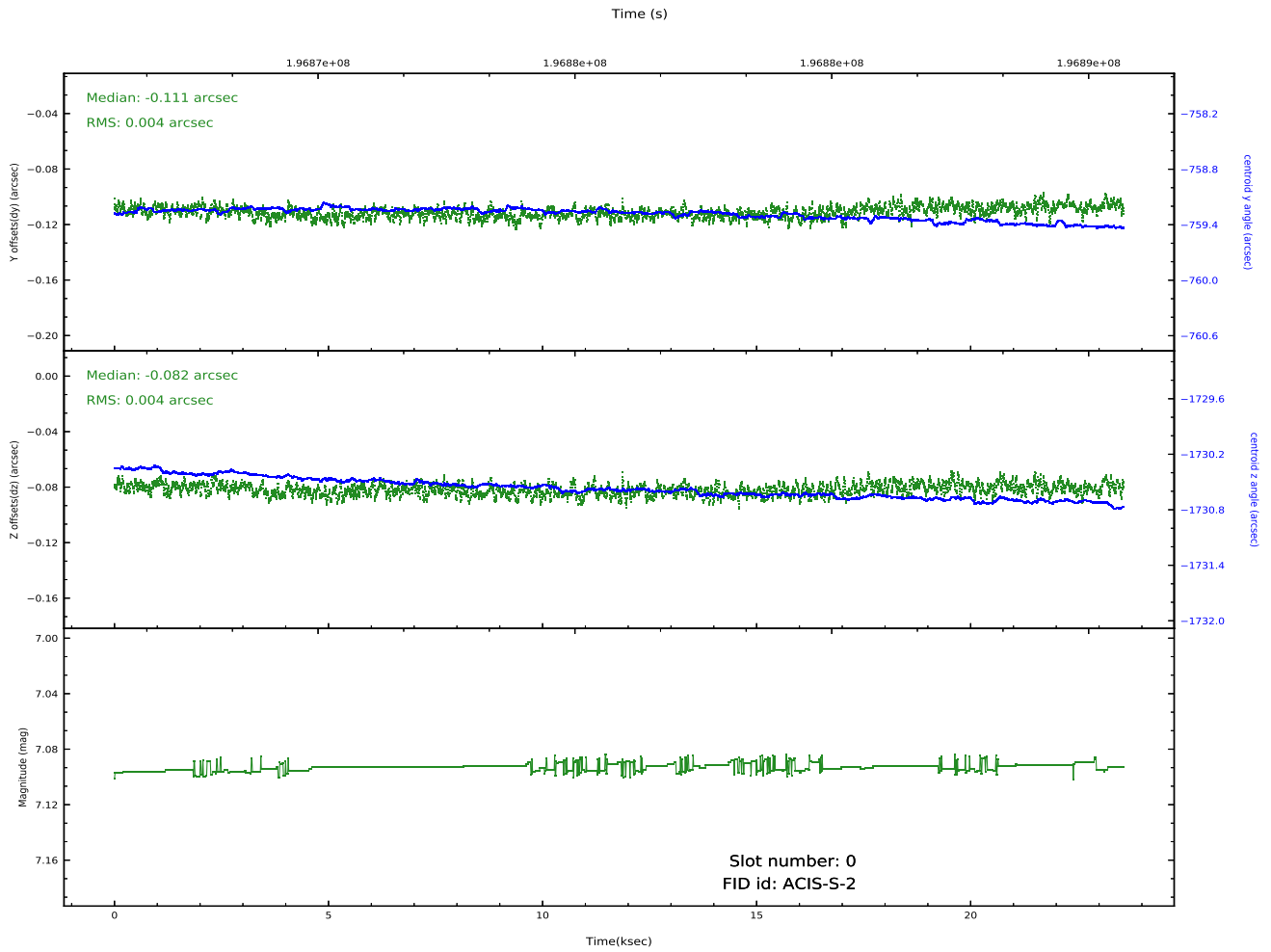
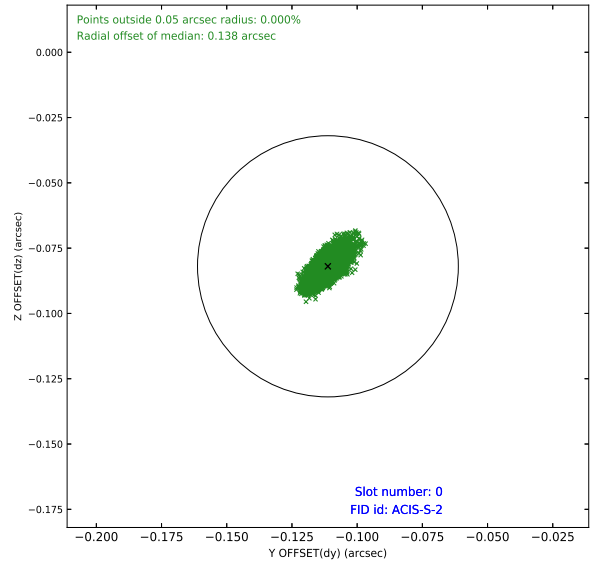
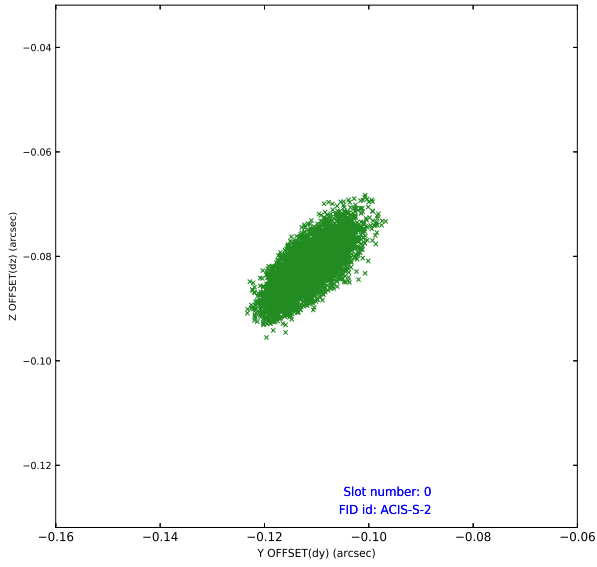


Time (s)

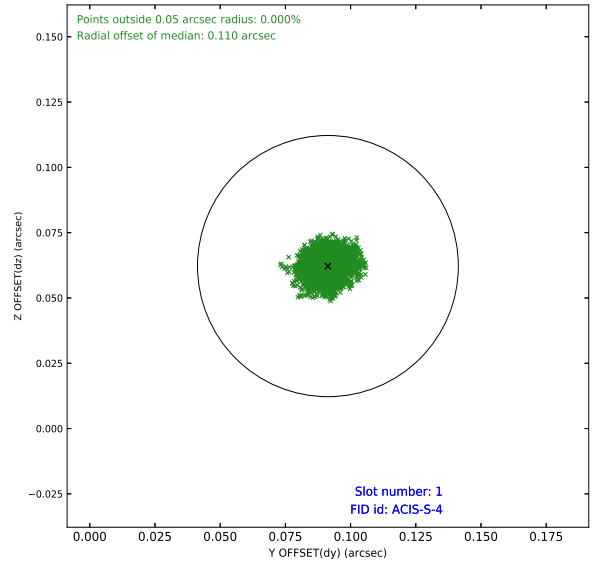
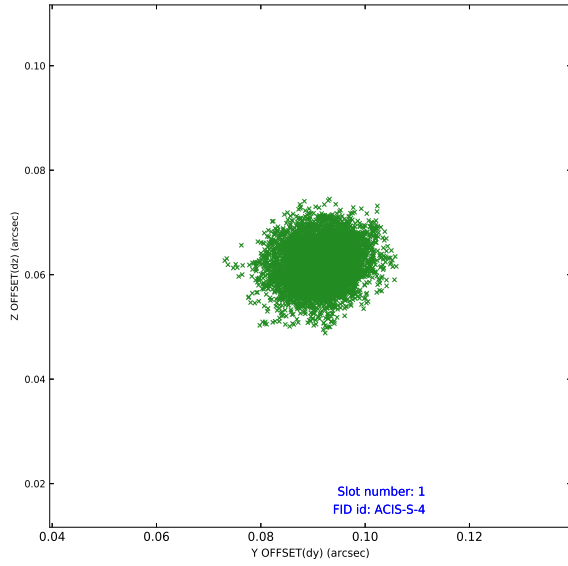


2.5 FID Slots

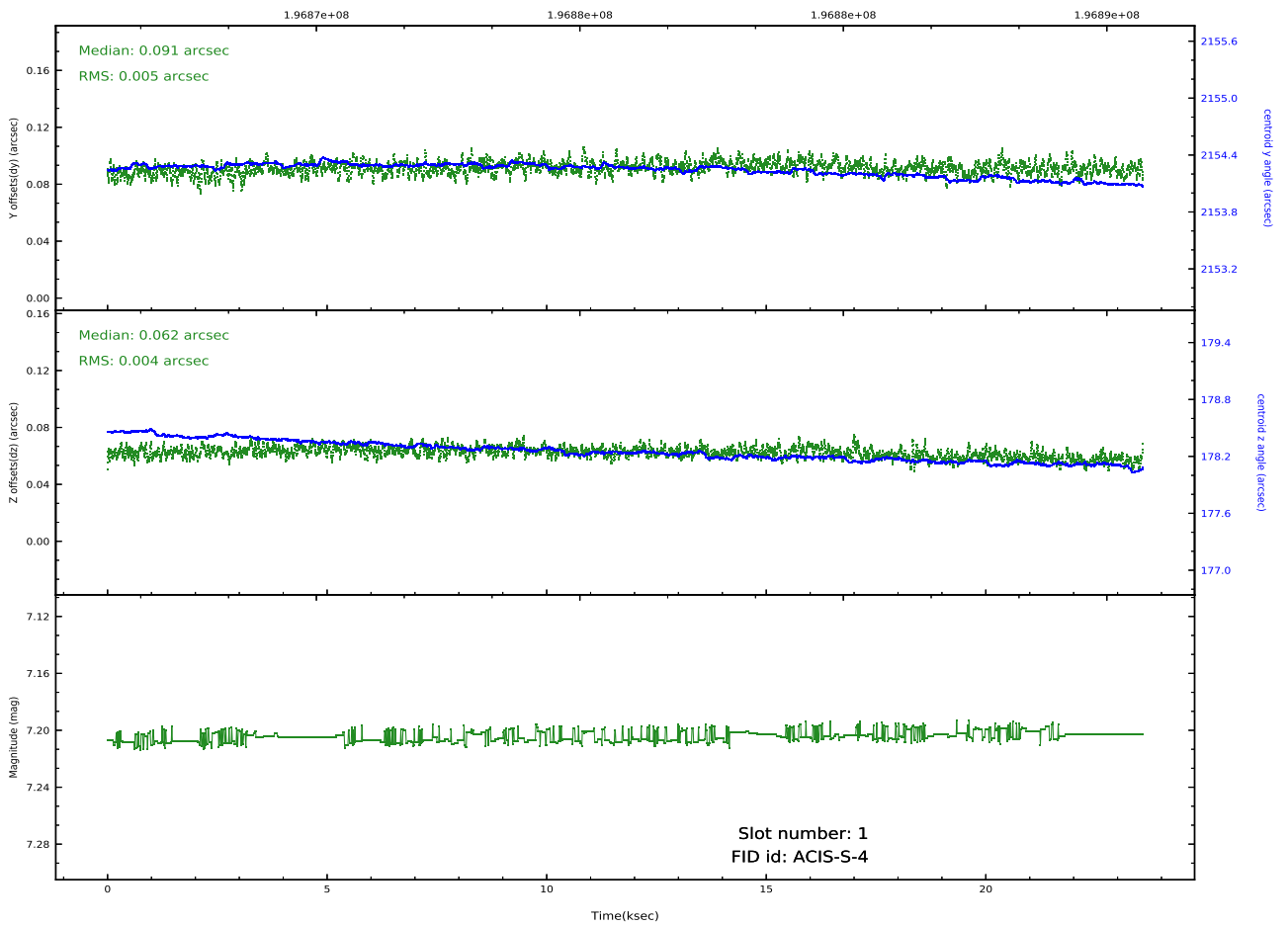
2.5.1 Slot 0



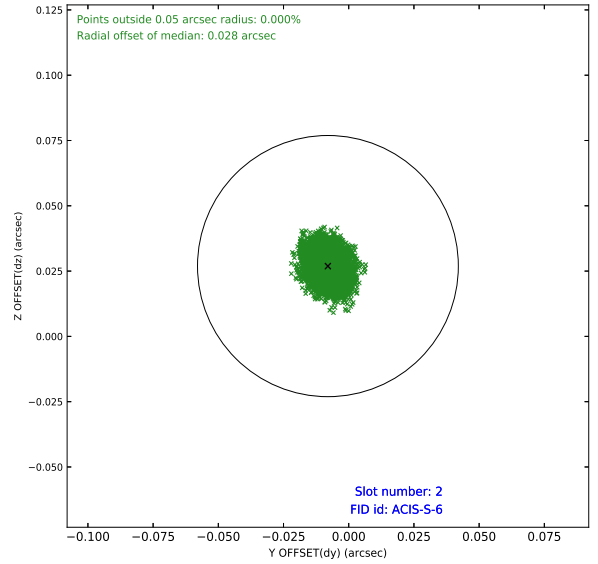
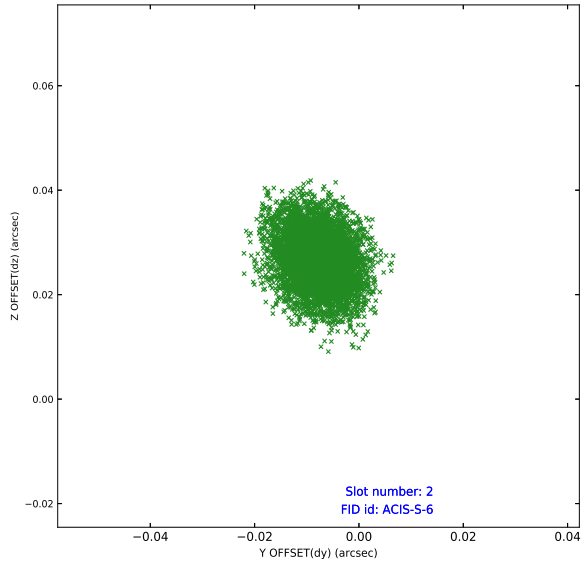
2.5.2 Slot 1



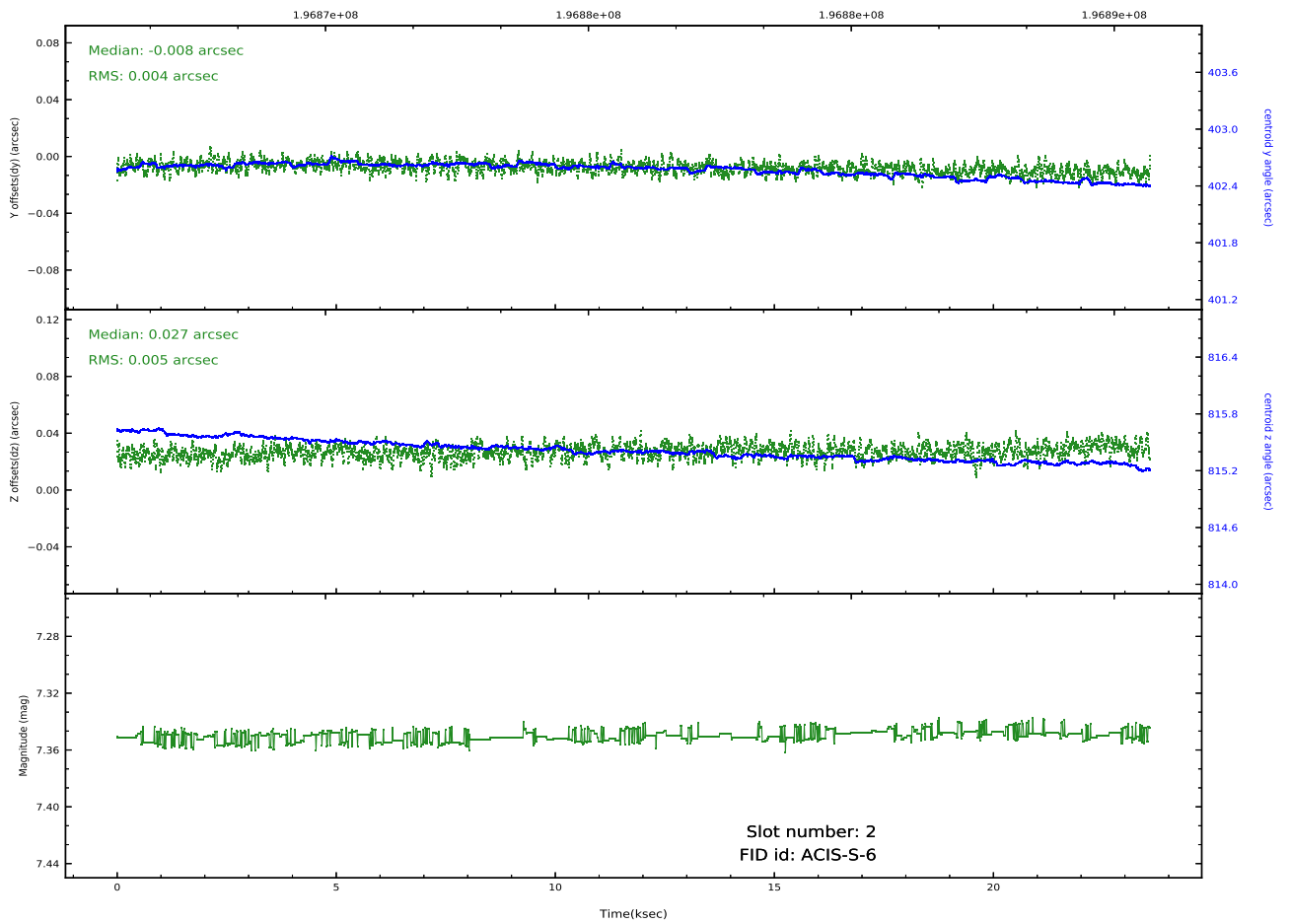
Time (s)



2.5.3 Slot 2



Time (s)



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2020.09.24
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	23.302

A.2 Comments