

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5750 - L2 Version 4
Chandra X-Ray Center

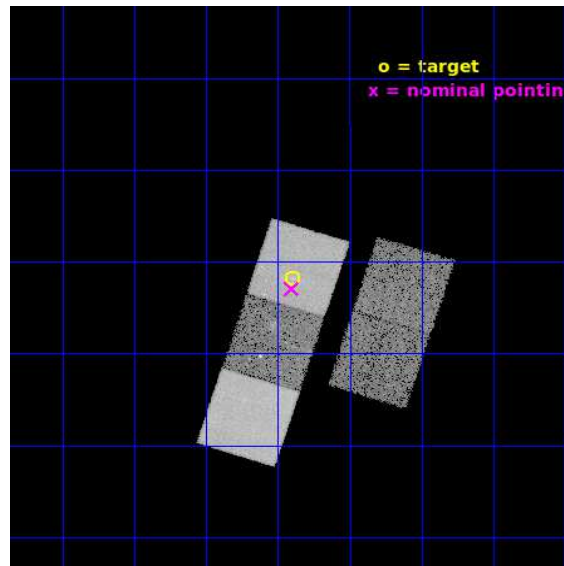
L2 Processing Date : Oct 11 2020

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1 Front

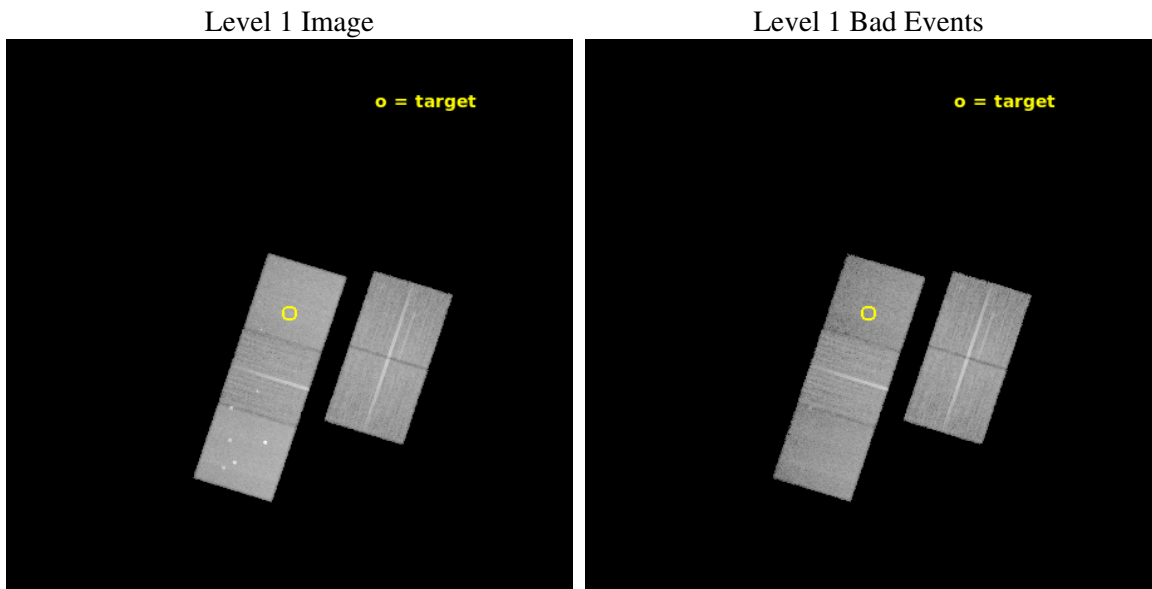
seq_num	800465	Sequence number
obs_id	5750	Observation id
title	Cluster Strong Lensing at High Redshift	Proposal title
observer	Professor Michael Gladders	Principal investigator
object	RCS J2319.9+0038	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	349.974583	Observer's specified target RA [deg]
dec_targ	0.636556	Observer's specified target Dec [deg]
ra_nom	349.9755915201	Nominal RA [deg]
dec_nom	0.61770199660012	Nominal Dec [deg]
roll_nom	287.74035437789	Nominal Roll [deg]
revision	4	Processing version of data
ontime	21179.199959248	Sum of GTIs [s]
livetime	20902.478119881	Livetime [s]
ontime2	21179.199959248	Sum of GTIs [s]
ontime3	21176.058968991	Sum of GTIs [s]
ontime5	21179.199959248	Sum of GTIs [s]
ontime6	21179.199959248	Sum of GTIs [s]
ontime7	21179.199959248	Sum of GTIs [s]
l2events	187846	Number of level 2 events



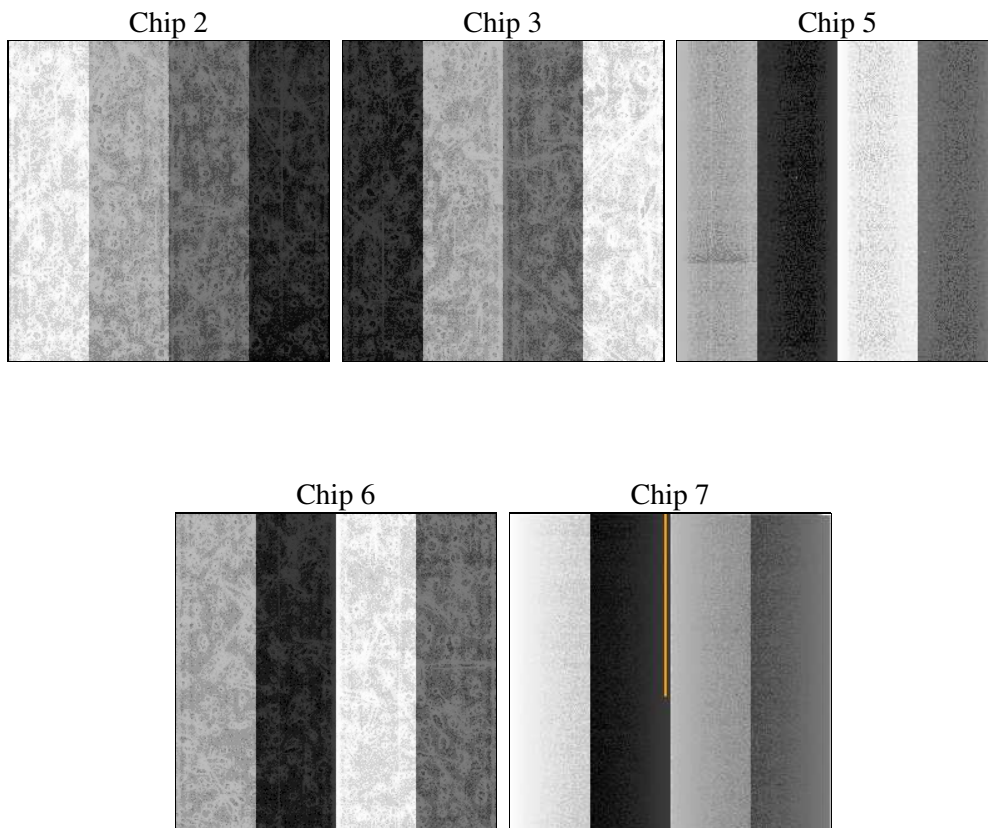
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	21000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	21179.199959248	Sum of GTIs [s]
caldbver	4.9.2	 	ontime2	21179.199959248	Sum of GTIs [s]
date	2020-10-11T03:48:26	Date and time of file creation	ontime3	21176.058968991	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	21179.199959248	Sum of GTIs [s]
			ontime6	21179.199959248	Sum of GTIs [s]
			ontime7	21179.199959248	Sum of GTIs [s]
			l1events	774617	Number of level 1 events

2.1.4 Events

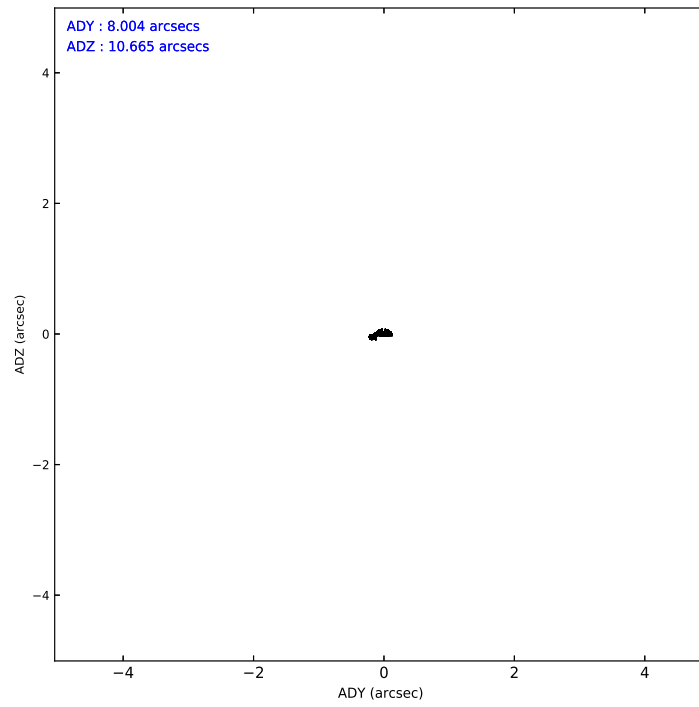
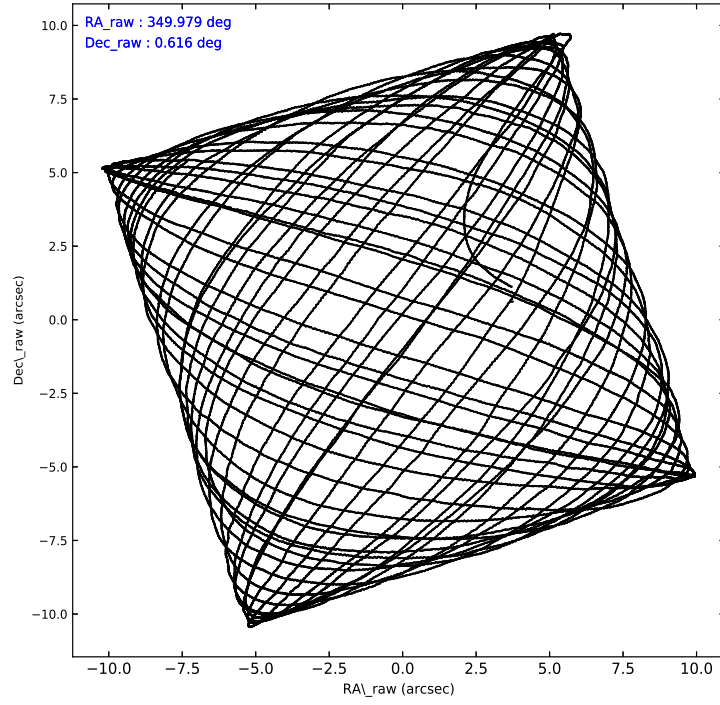
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
level 1 events	143344	134335	197114	142774	157050
rejected events	130373	121645	99662	127681	87081
rejected %	90%	90%	50%	89%	55%

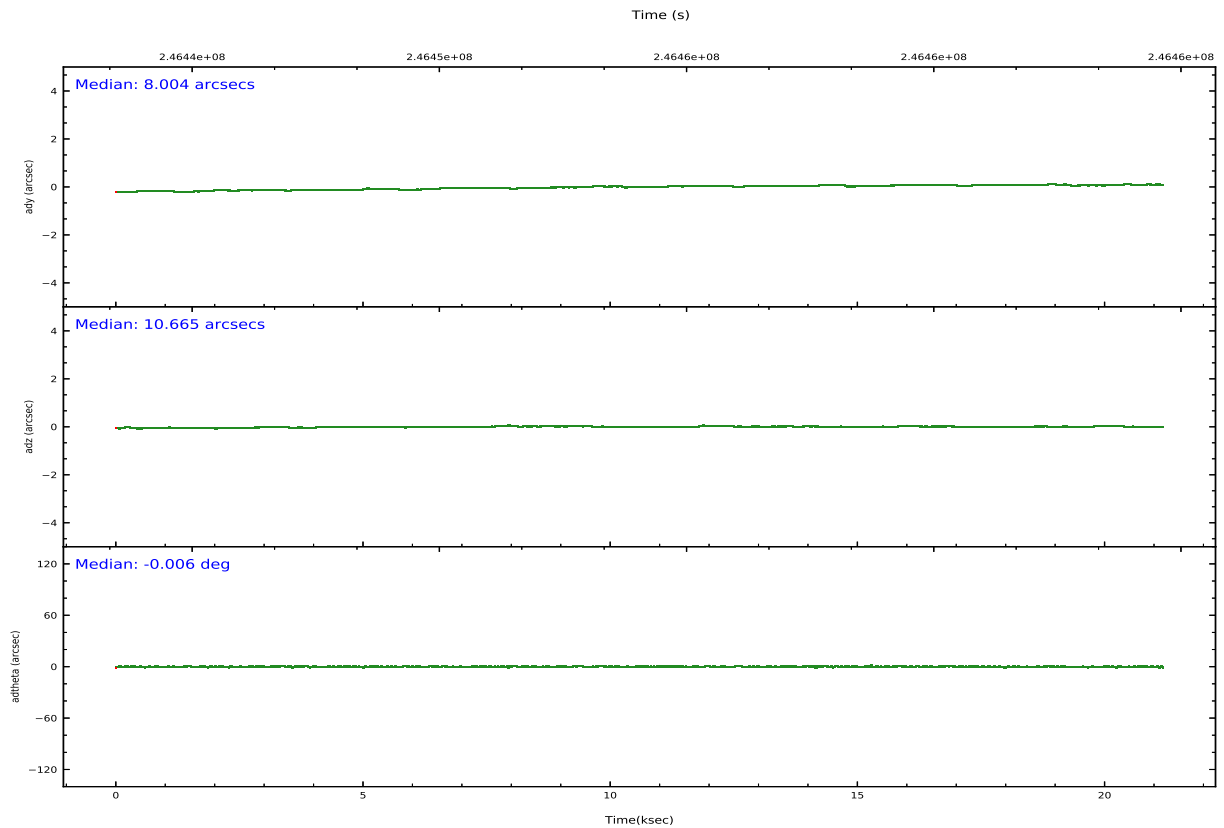
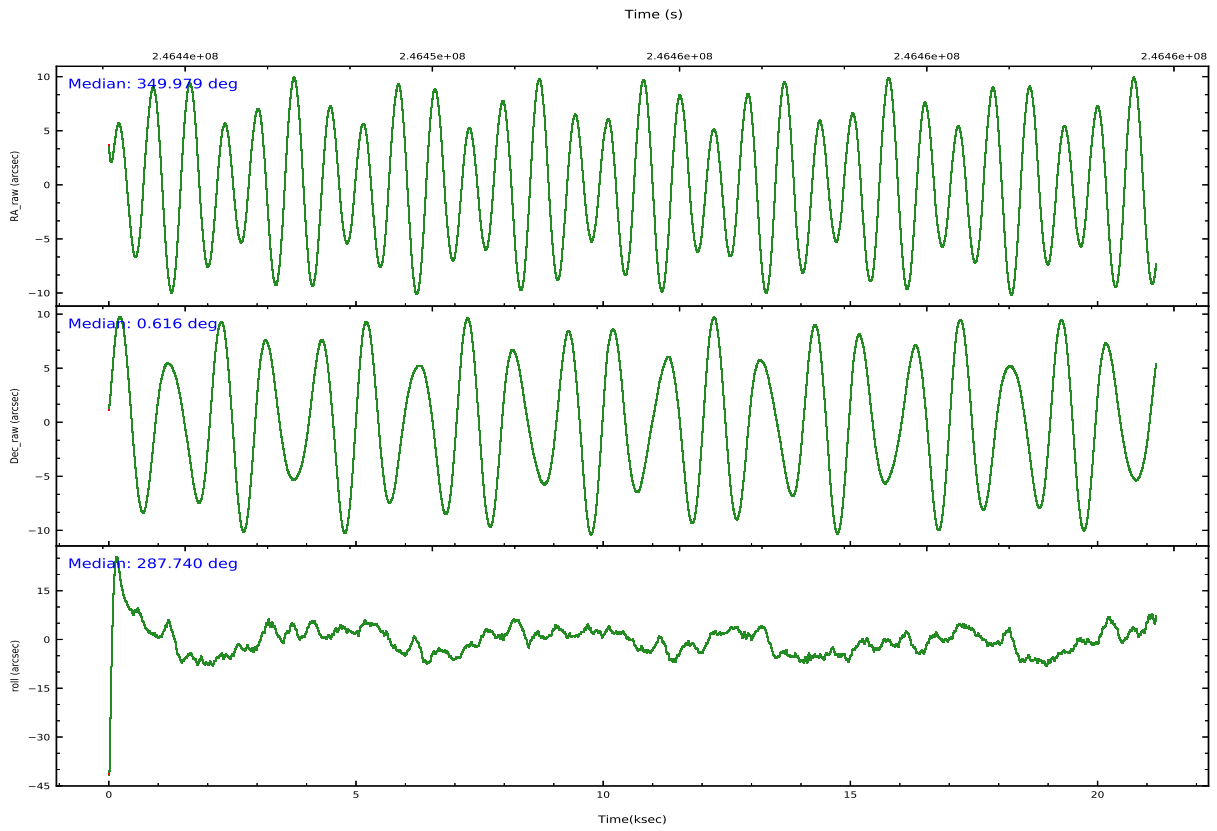
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
grade 0 events	4634	4451	14133	5700	6382
	3%	3%	7%	3%	4%
grade 1 events	68	52	350	68	135
	0%	0%	0%	0%	0%
grade 2 events	3119	2754	27488	3183	14022
	2%	2%	13%	2%	8%
grade 3 events	1462	1511	3824	1616	6618
	1%	1%	1%	1%	4%
grade 4 events	1465	1541	3787	1605	6655
	1%	1%	1%	1%	4%
grade 5 events	4501	5625	15082	5708	16706
	3%	4%	7%	3%	10%
grade 6 events	2441	2592	49567	3165	37148
	1%	1%	25%	2%	23%
grade 7 events	125654	115809	82883	121729	69384
	87%	86%	42%	85%	44%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-23567	ACIS-23567	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	349.958838	349.9755915201	Subarray requested	NONE	NONE
[deg] Pointing Dec	0.634367	0.61770199660012	Alternating exposures requested	N	N
[deg] Pointing Roll	287.576784	287.74035437789	[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)	246443640.184000	246442505.28788			
Observation start date	2005-10-23T08:32:56	2005-10-23T08:15:05			
[s] Observation end time (MET)	246464640.184000	246465796.36395			
Observation end date	2005-10-23T14:22:56	2005-10-23T14:43:16			
Read mode	TIMED	TIMED			

2.3 Aspect





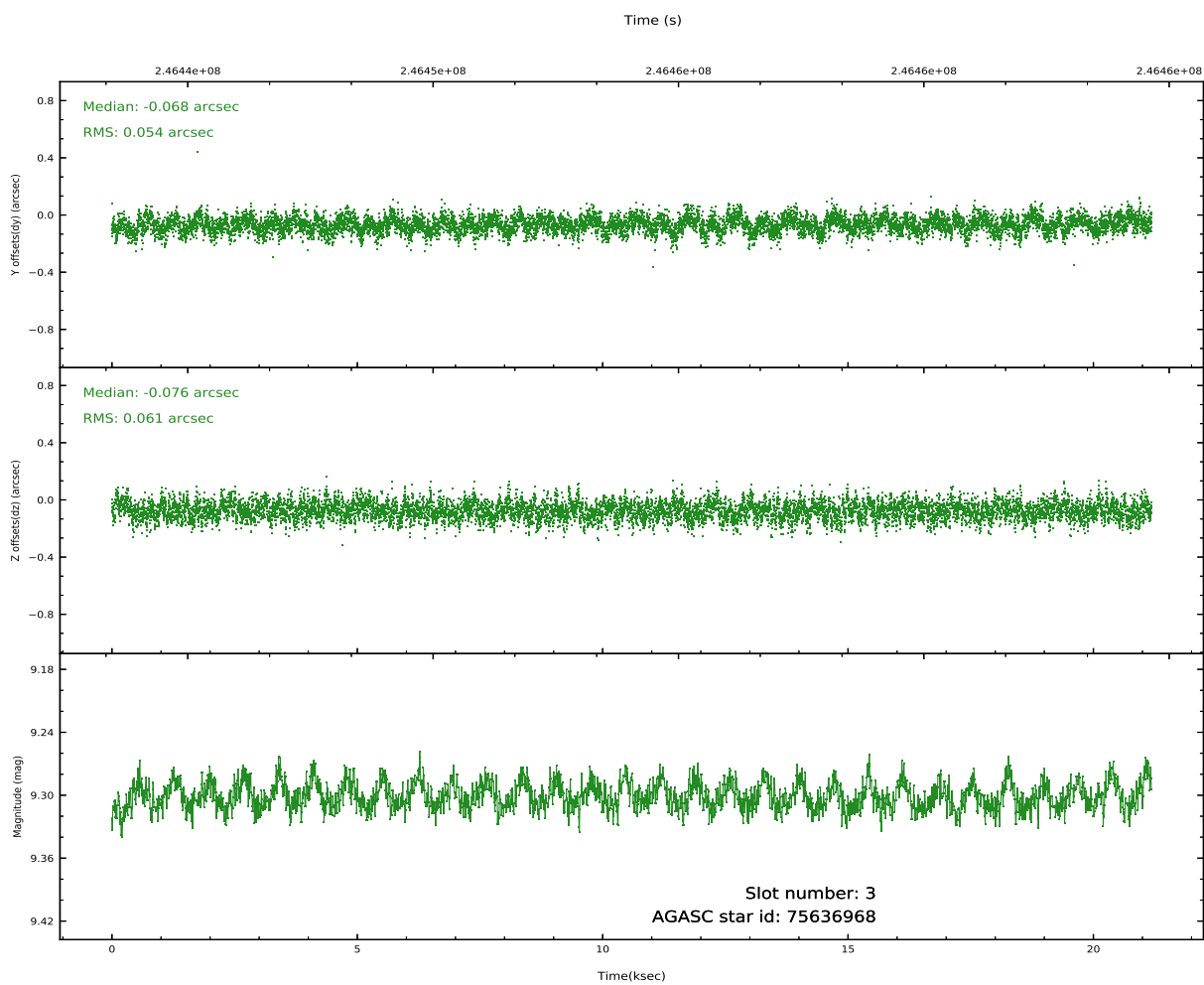
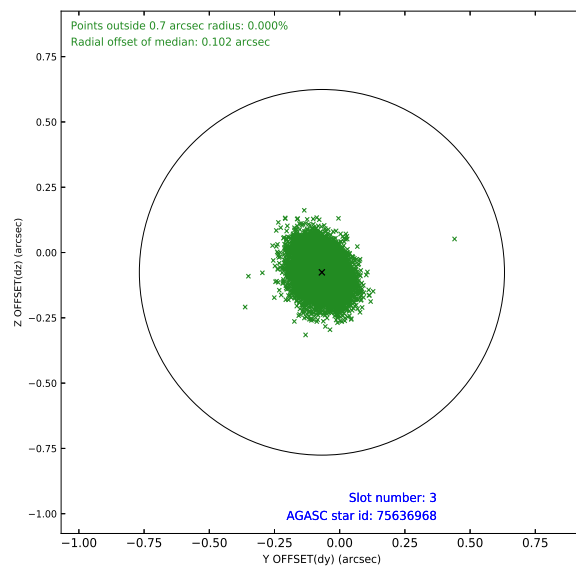
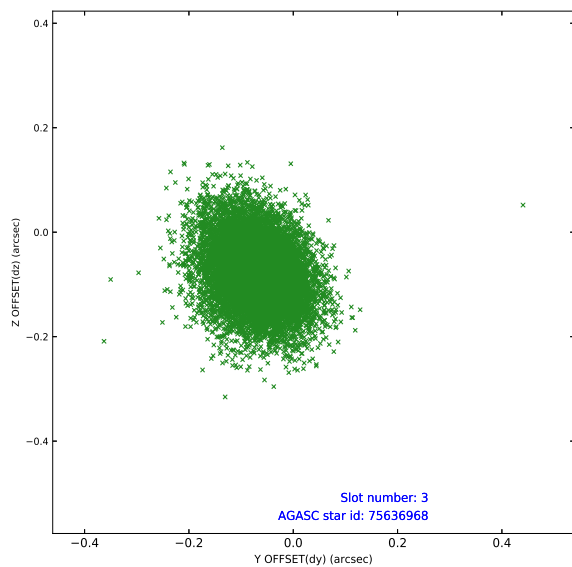
Slot Statistics

slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.11	5167	1.000	-0.080	-0.060	0.007	0.012	0.000000	0.000000	-760.76	-1732
1	FID		ACIS-S-4	7.21	5168	1.000	0.190	0.054	0.008	0.014	0.000000	0.000000	2152.62	176
2	FID		ACIS-S-5	7.24	5167	1.000	-0.142	0.014	0.009	0.016	0.000000	0.000000	-1813.53	170
3	GUIDE	used	75636968	9.30	10329	1.000	-0.068	-0.076	0.086	0.142	349.584767	0.524969	-30.78	-1402
4	GUIDE	used	75765576	9.99	10308	1.000	0.032	0.080	0.179	0.288	350.147829	0.719056	-84.56	740
5	GUIDE	used	75769624	9.41	10315	1.000	0.014	-0.216	0.123	0.194	350.180830	0.159527	1871.58	245
6	GUIDE	used	75769792	10.33	10311	1.000	-0.028	0.224	0.258	0.401	350.066010	0.174382	1695.93	-132
7	GUIDE	used	75636120	10.34	10323	1.000	0.094	-0.018	0.189	0.291	349.524166	0.883008	-1324.92	-1221

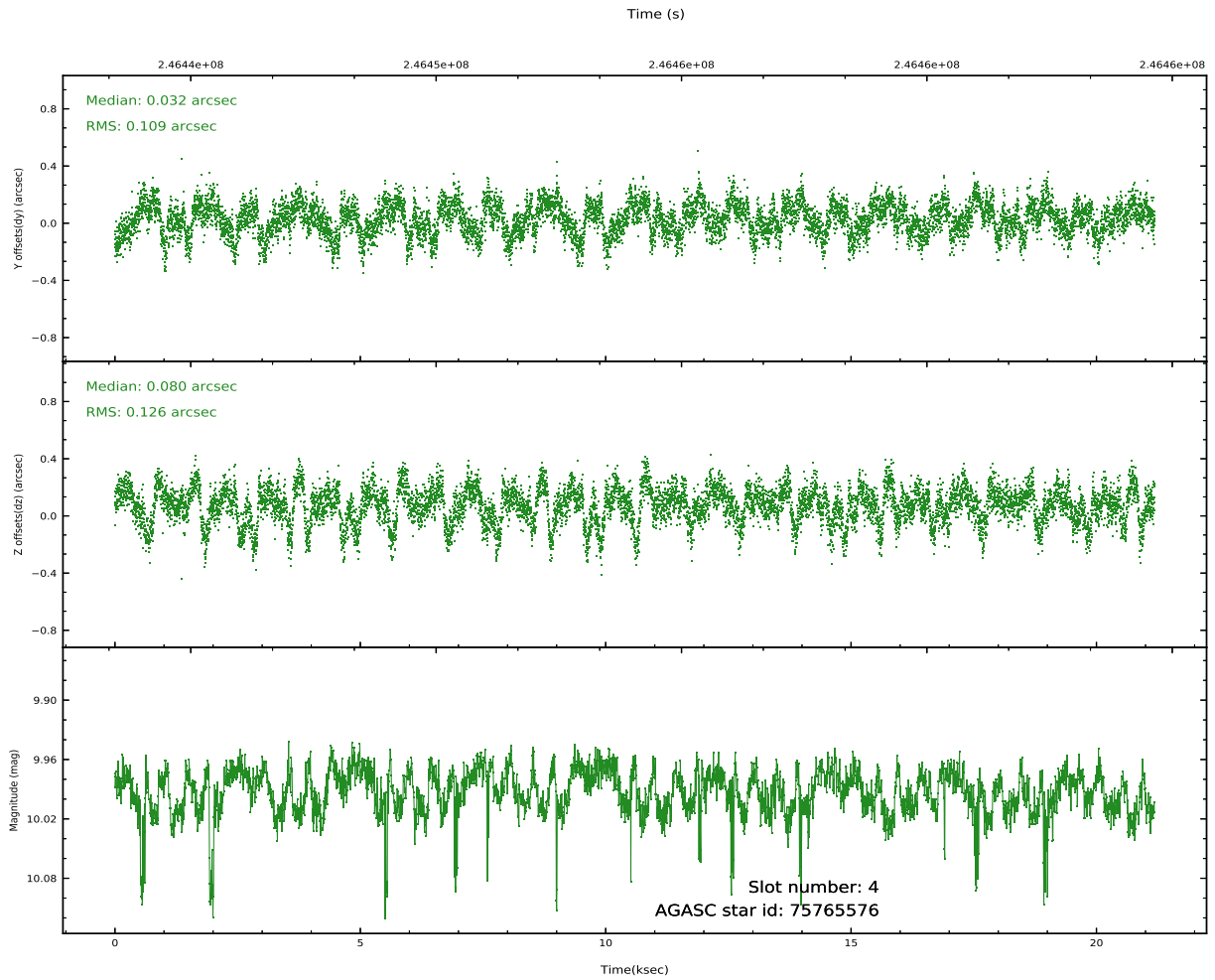
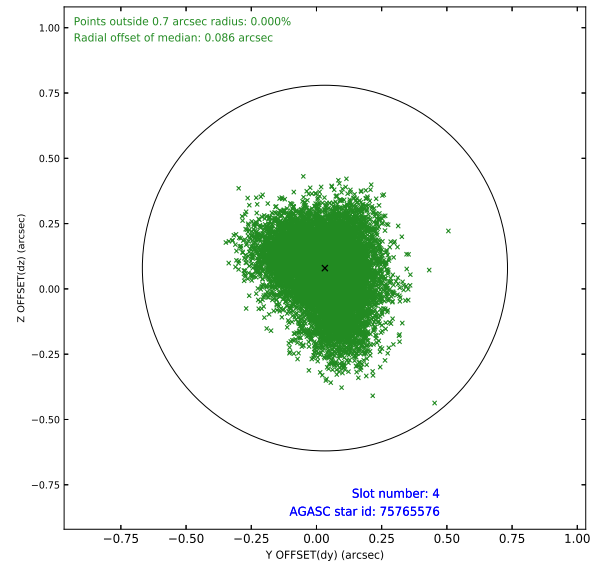
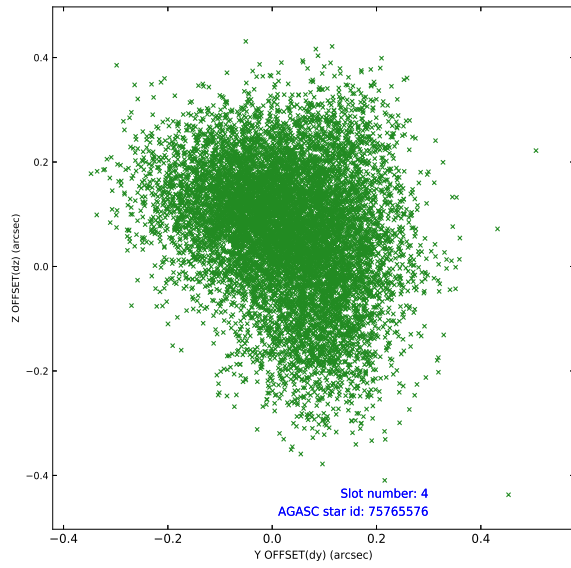
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2.4 Star Slots

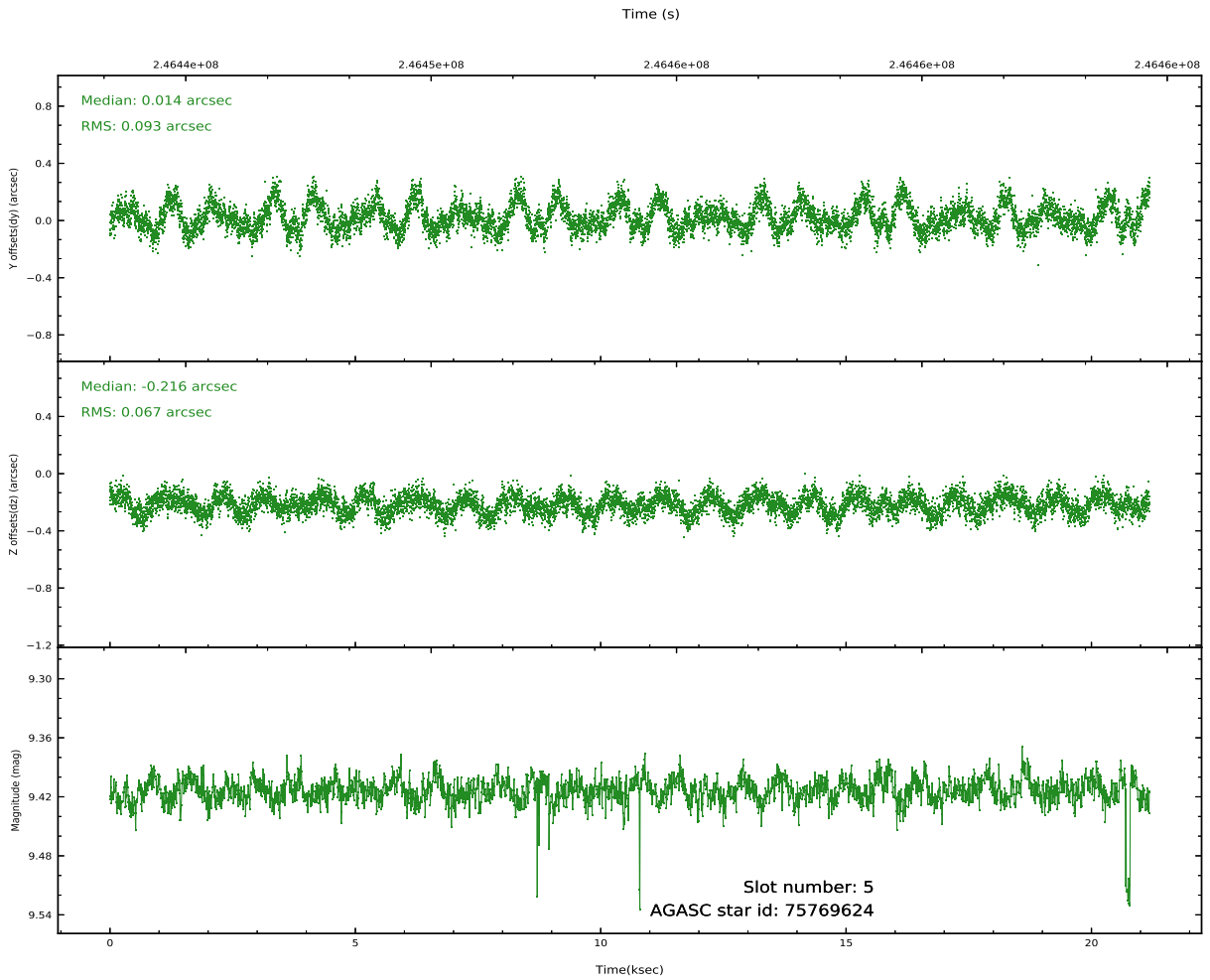
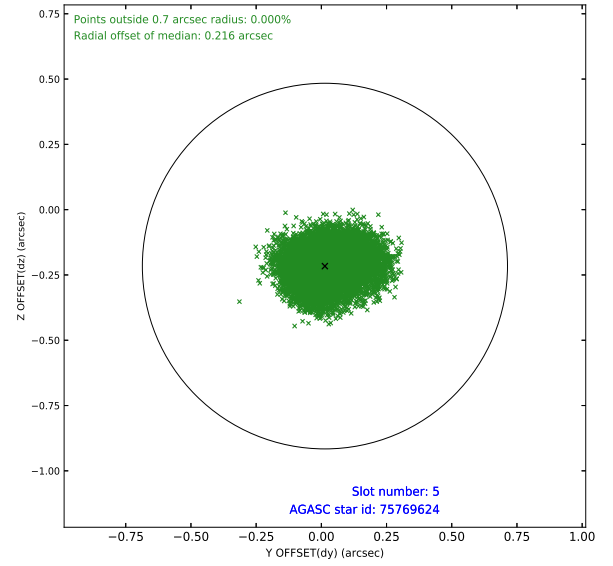
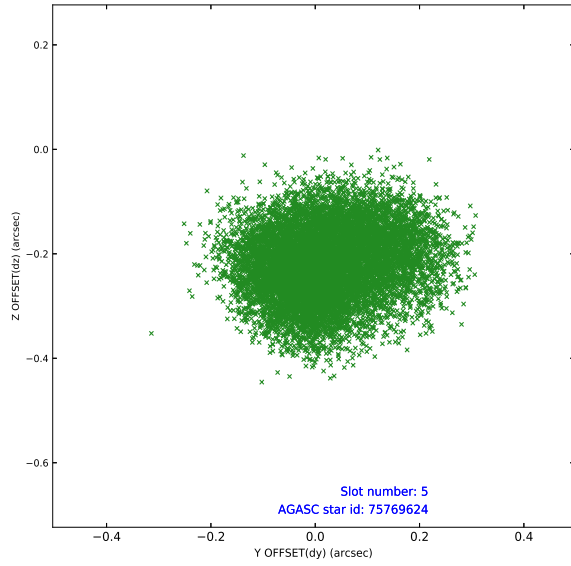
2.4.1 Slot 3



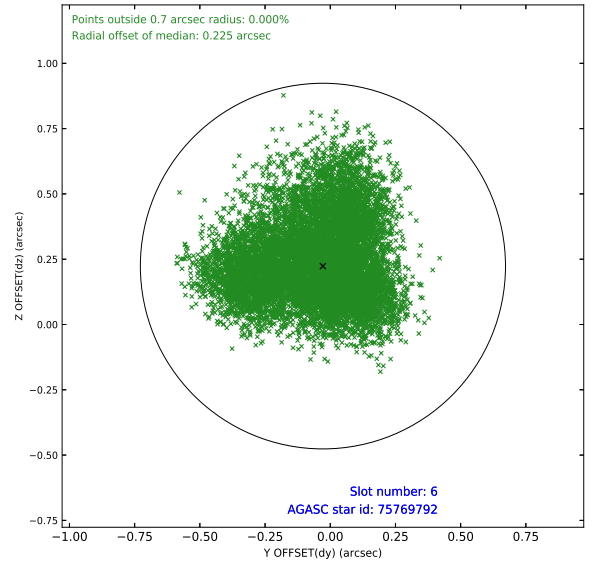
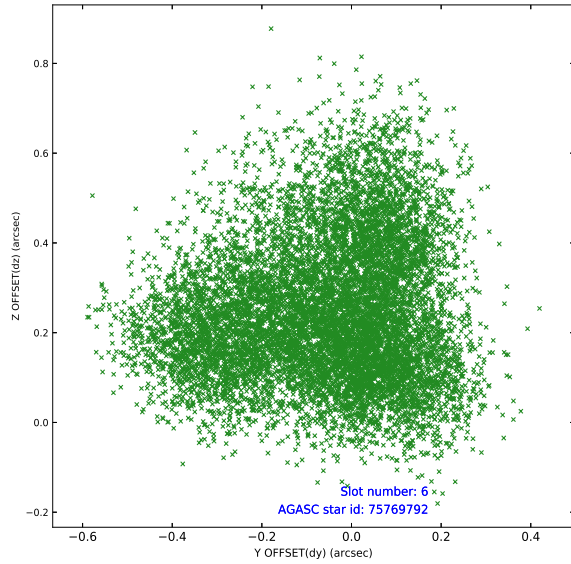
2.4.2 Slot 4



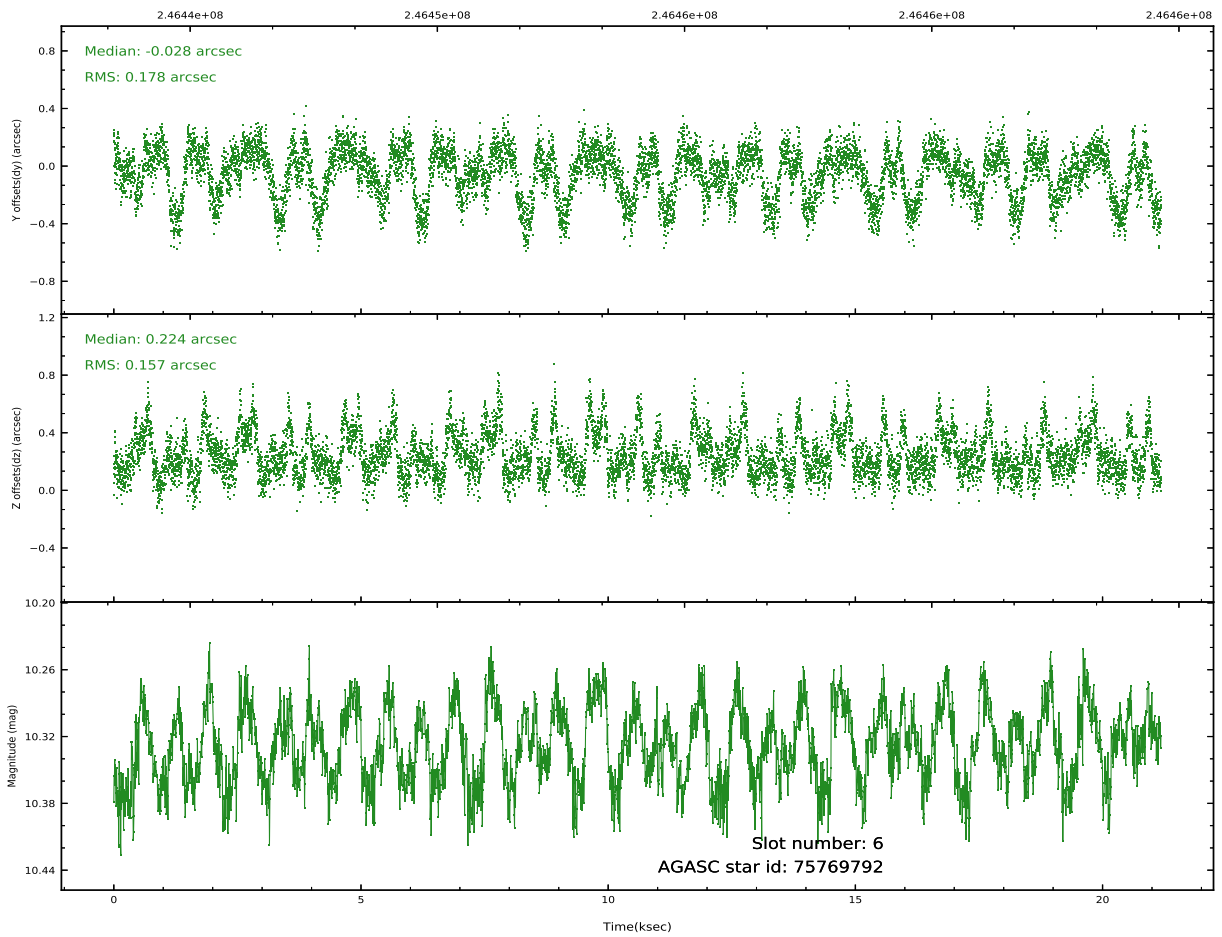
2.4.3 Slot 5



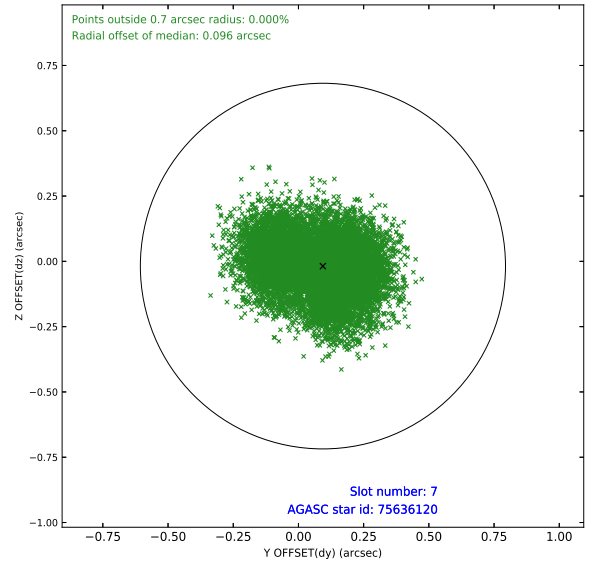
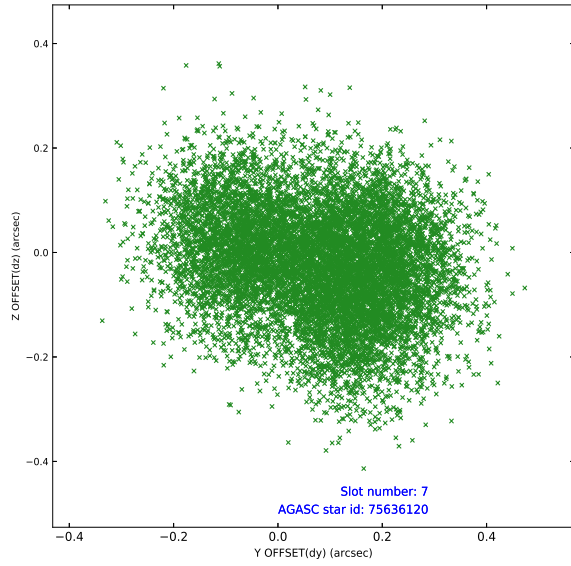
2.4.4 Slot 6



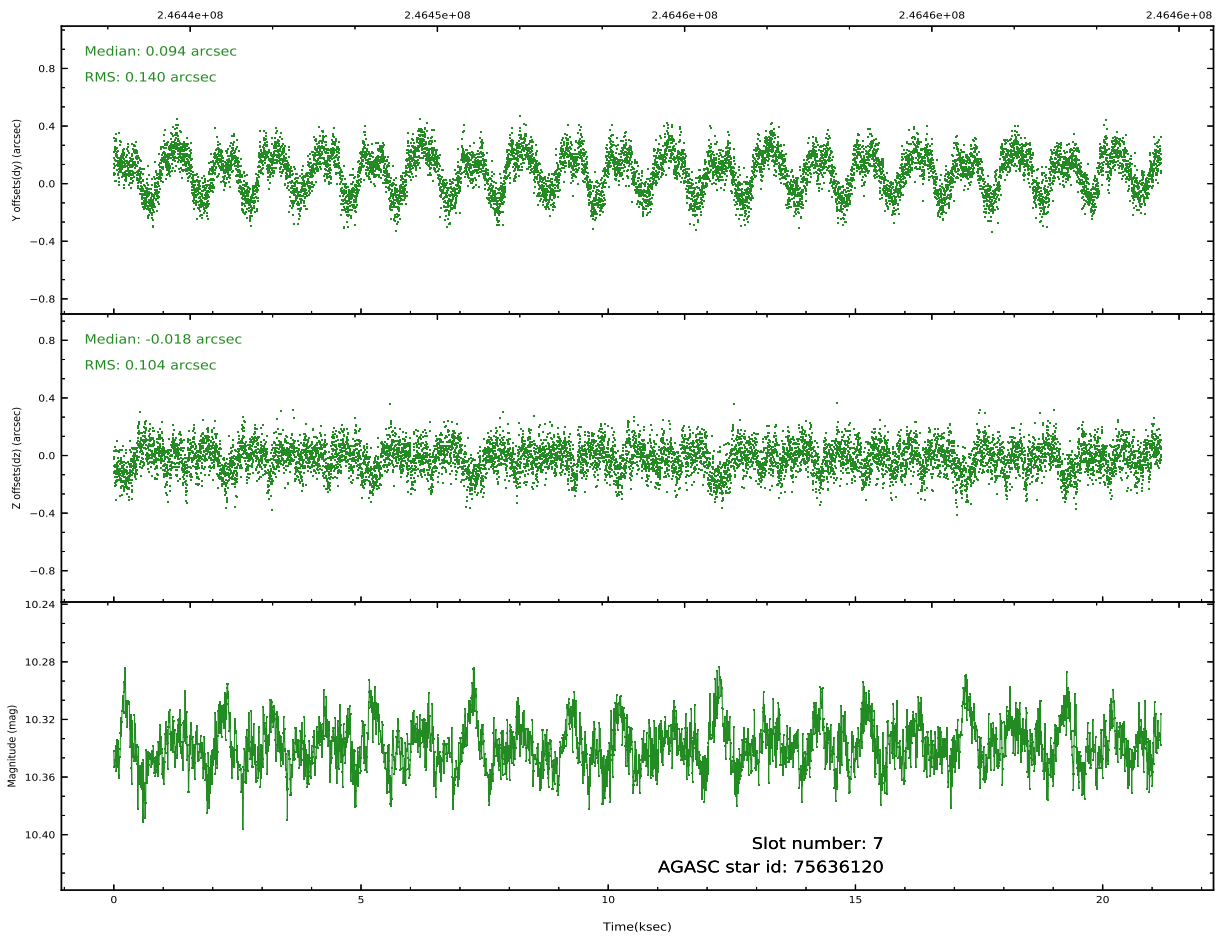
Time (s)



2.4.5 Slot 7

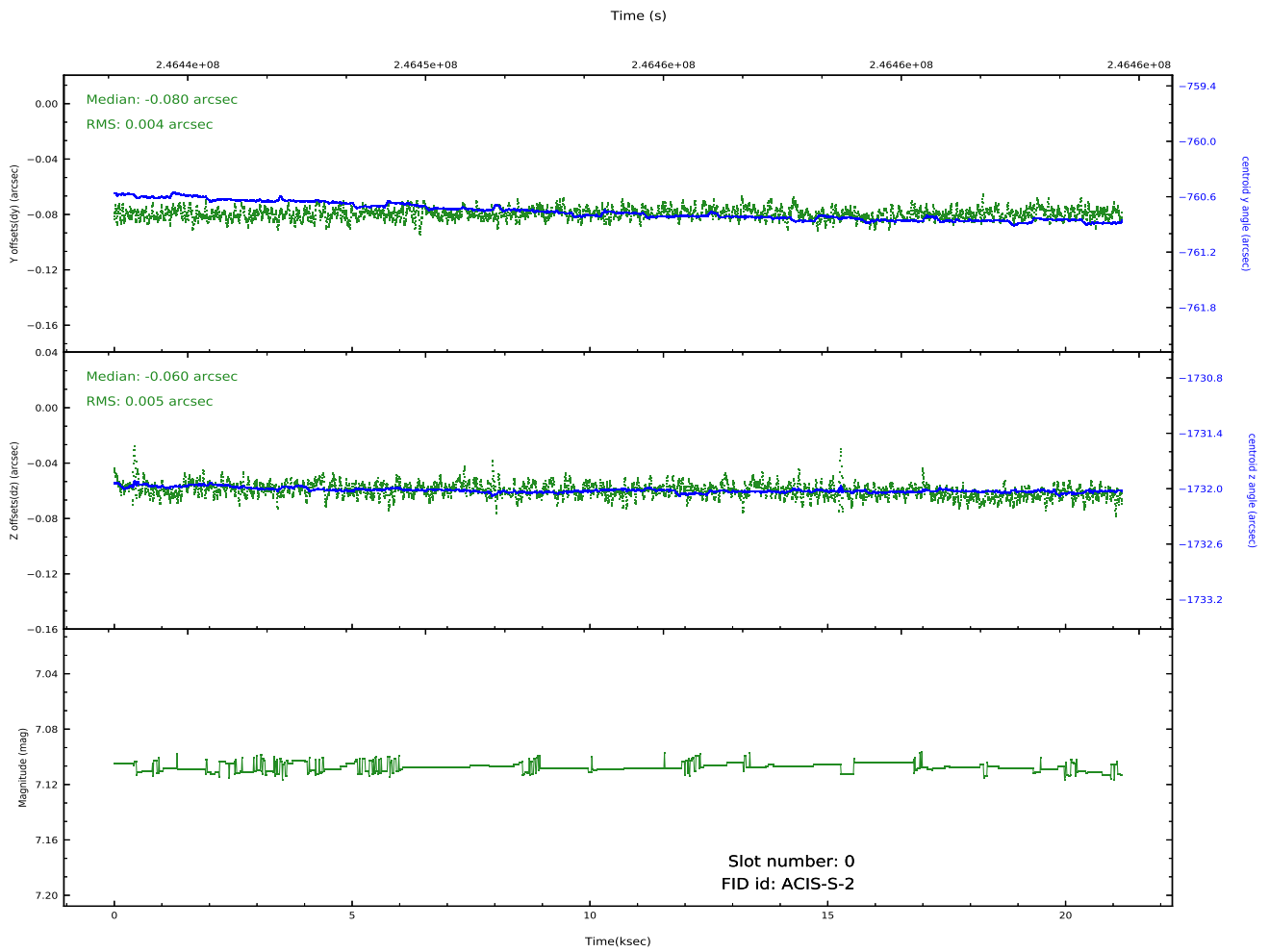
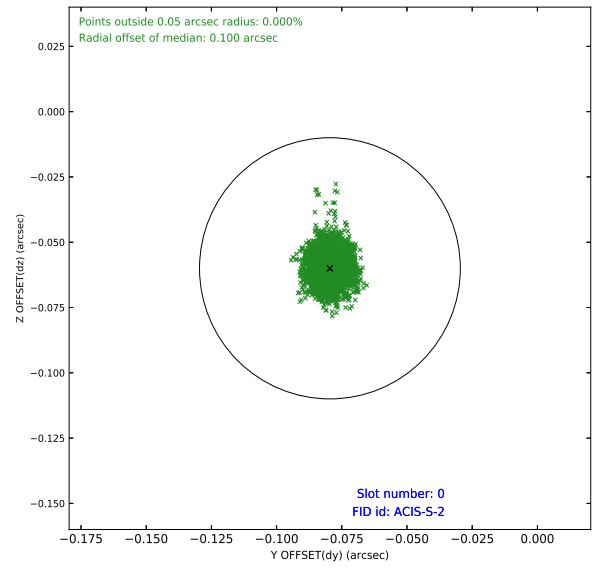
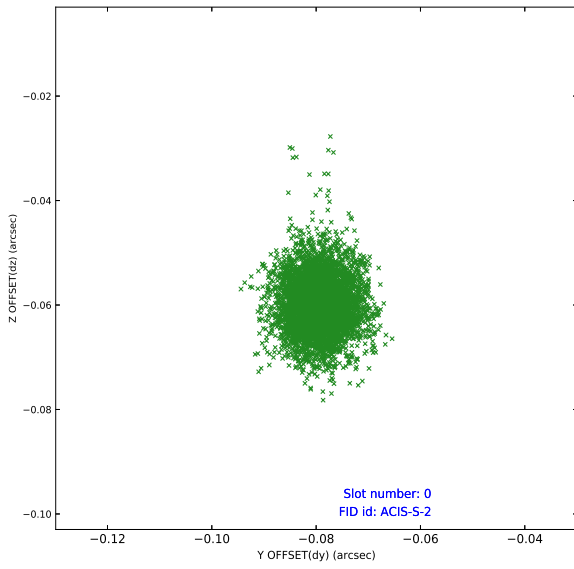


Time (s)

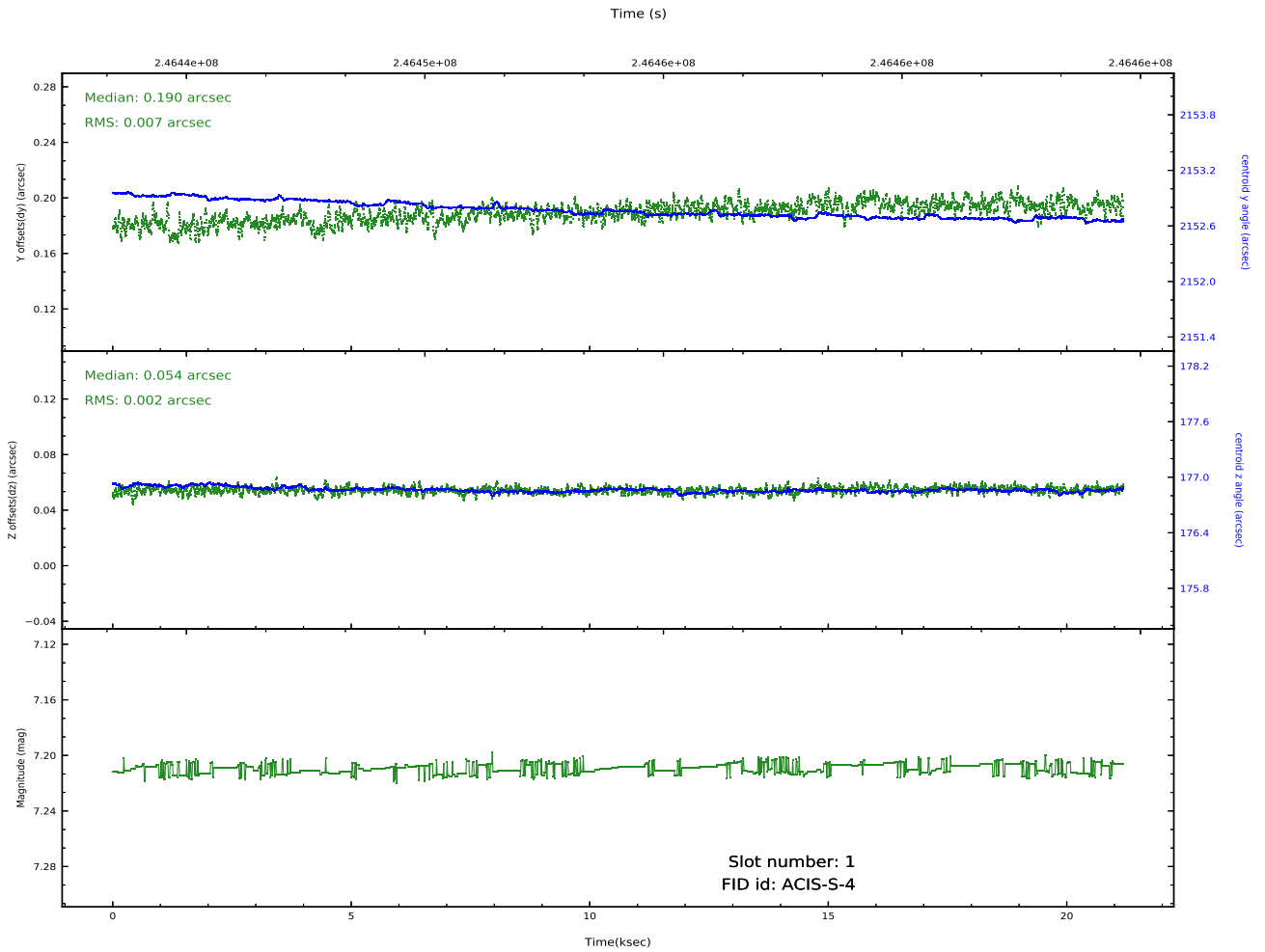
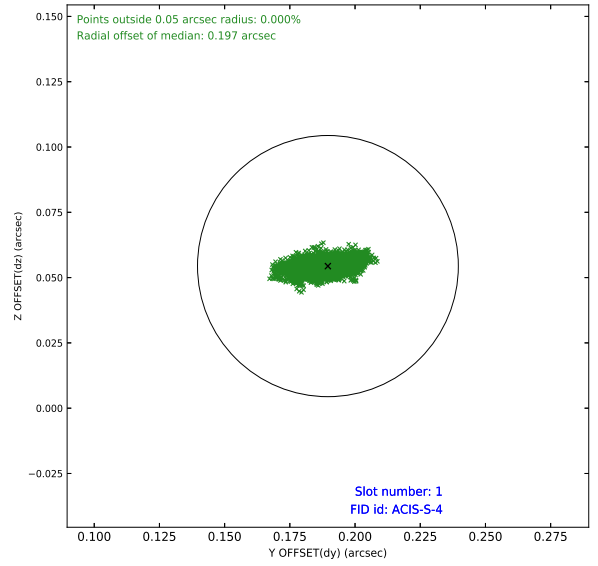
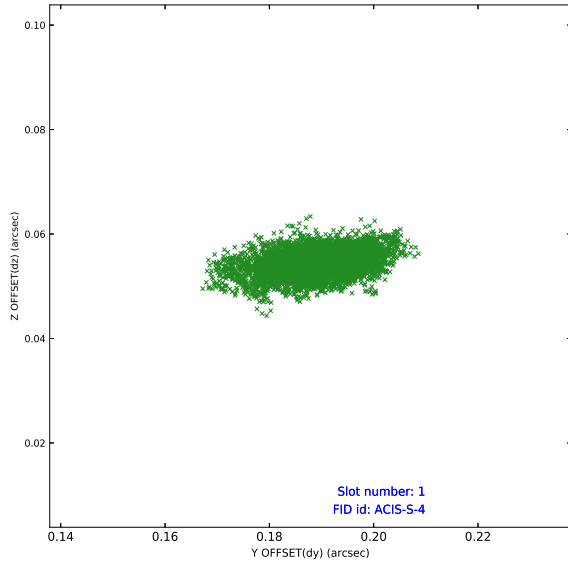


2.5 FID Slots

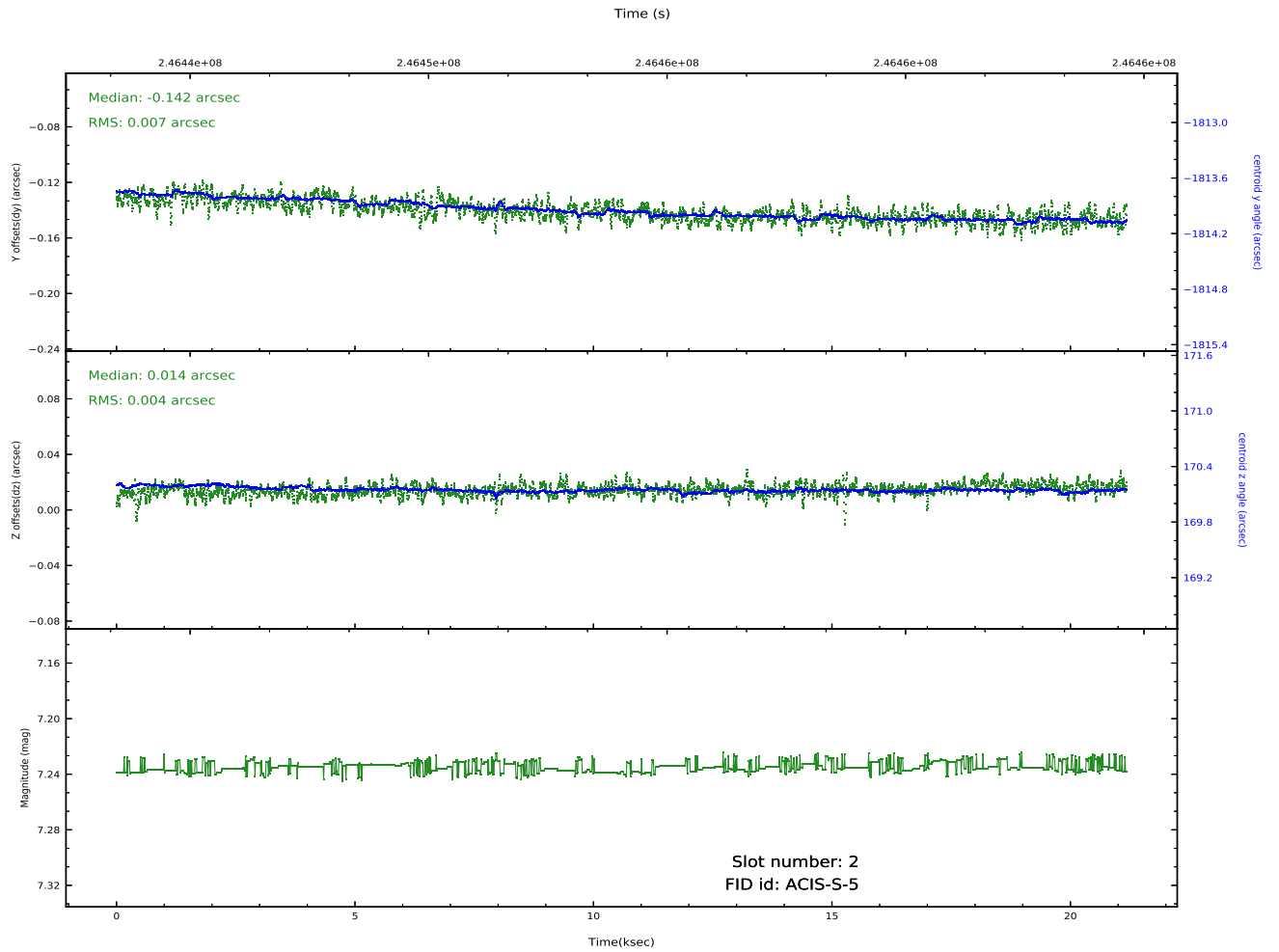
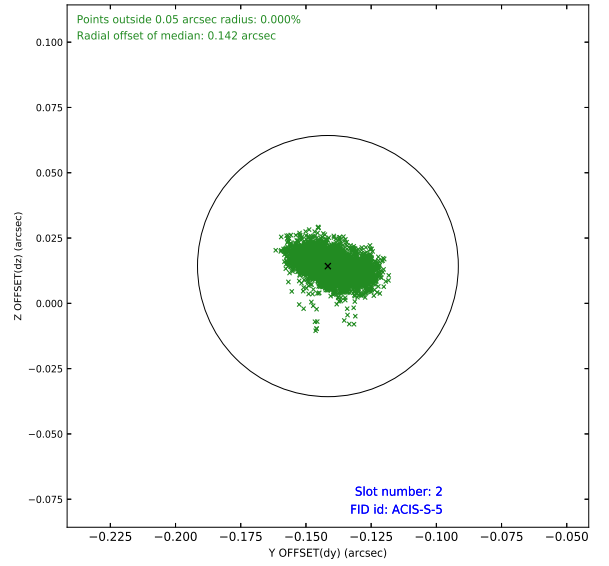
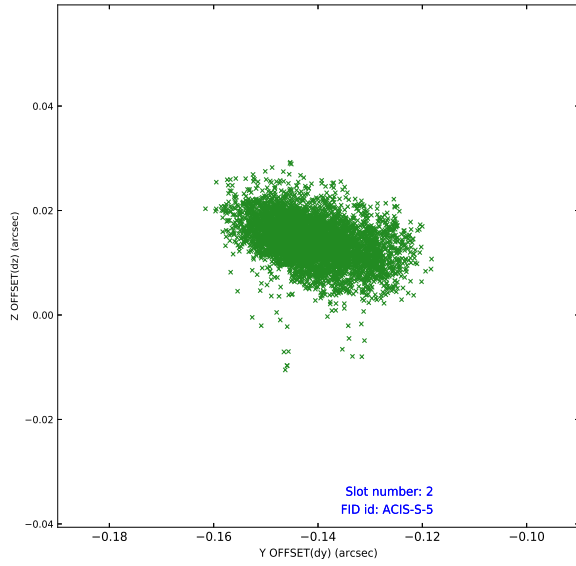
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2020.10.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	21.17919

A.2 Comments