

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 6146 - L2 Version 4
Chandra X-Ray Center

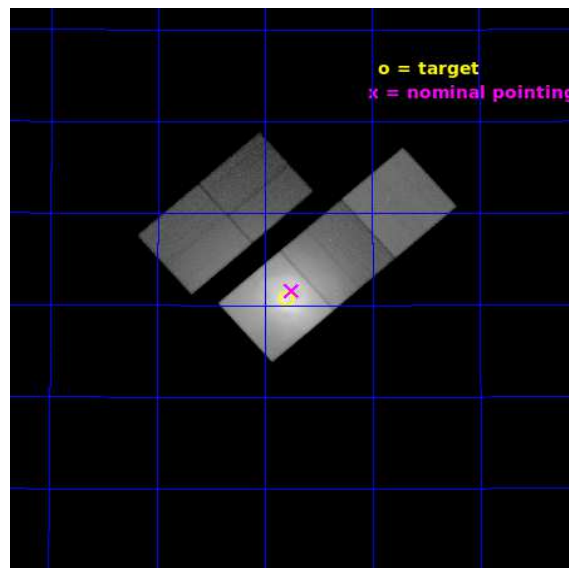
L2 Processing Date : Oct 3 2020

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1 Front

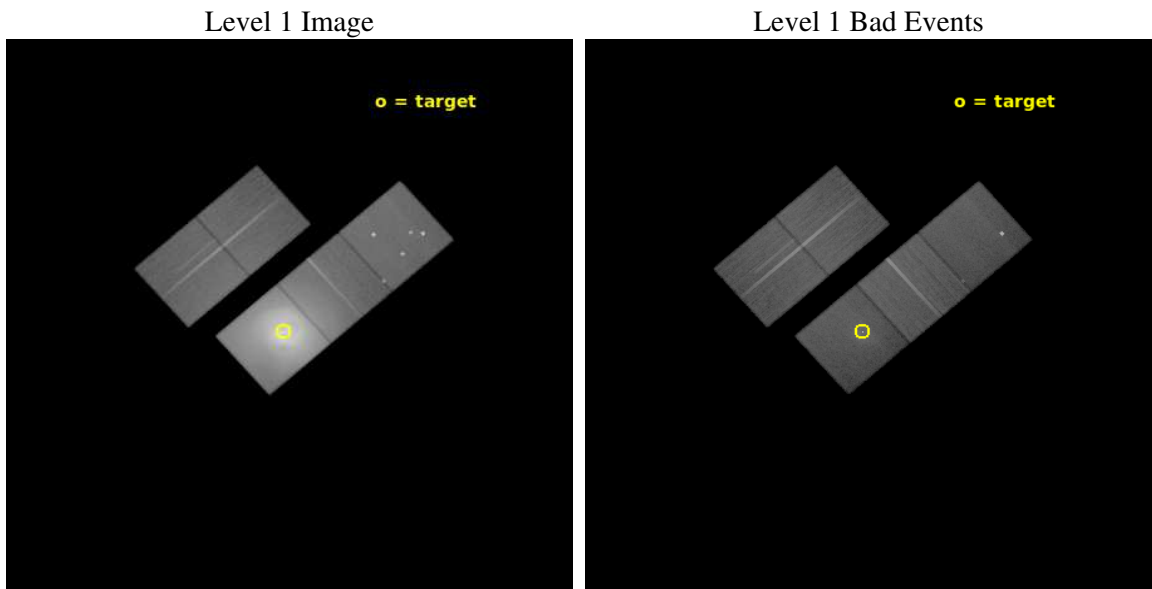
seq_num	800398	Sequence number
obs_id	6146	Observation id
title	A Megasecond Image of the Core of the Perseus Cluster	Proposal tit
observer	Andrew Fabian	Principal investigator
object	Abell 426	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	49.950833	Observer's specified target RA [deg]
dec_targ	41.511722	Observer's specified target Dec [deg]
ra_nom	49.93729719081	Nominal RA [deg]
dec_nom	41.526548622115	Nominal Dec [deg]
roll_nom	138.68485391573	Nominal Roll [deg]
revision	4	Processing version of data
ontime	47752.399908155	Sum of GTIs [s]
liveltime	47128.47964855	Livetime [s]
ontime2	47752.399908155	Sum of GTIs [s]
ontime3	47746.117917746	Sum of GTIs [s]
ontime5	47752.399908155	Sum of GTIs [s]
ontime6	47752.399908155	Sum of GTIs [s]
ontime7	47752.399908155	Sum of GTIs [s]
l2events	4711580	Number of level 2 events



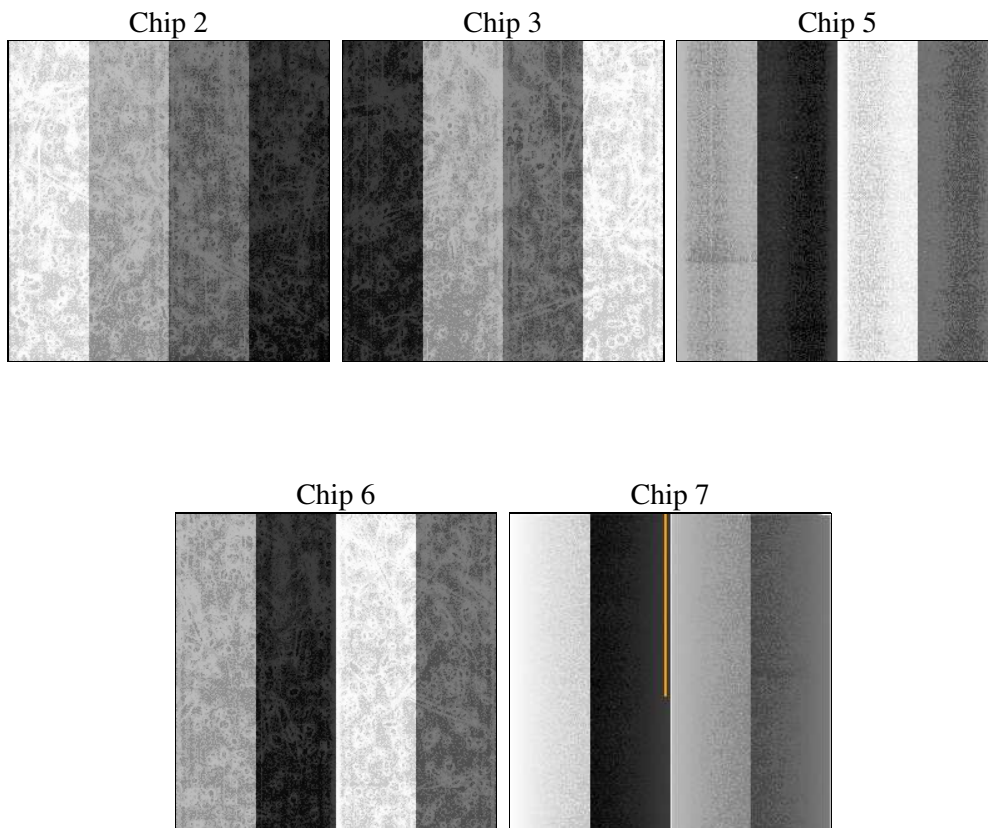
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	47983.190000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	47752.399908155	Sum of GTIs [s]
caldbver	4.9.2	 	ontime2	47752.399908155	Sum of GTIs [s]
date	2020-10-03T16:42:30	Date and time of file creation	ontime3	47746.117917746	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	47752.399908155	Sum of GTIs [s]
			ontime6	47752.399908155	Sum of GTIs [s]
			ontime7	47752.399908155	Sum of GTIs [s]
			l1events	6215691	Number of level 1 events

2.1.4 Events

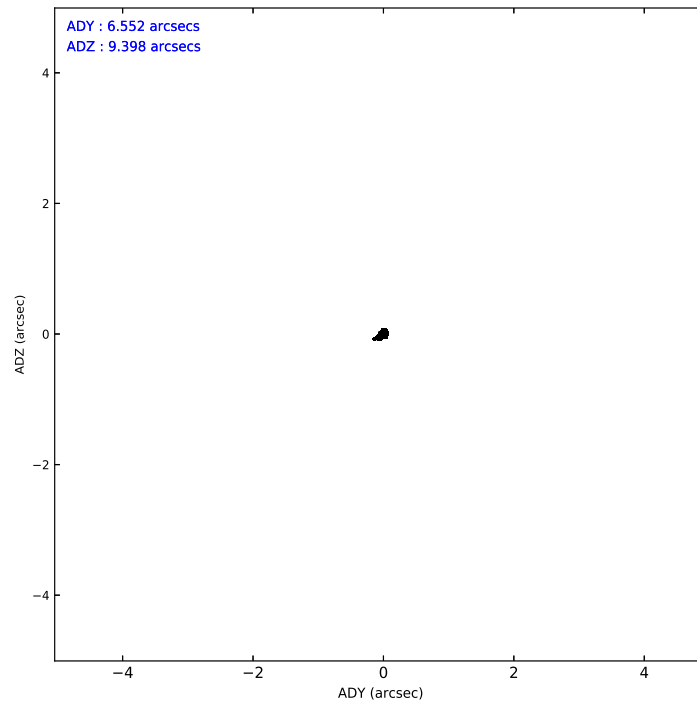
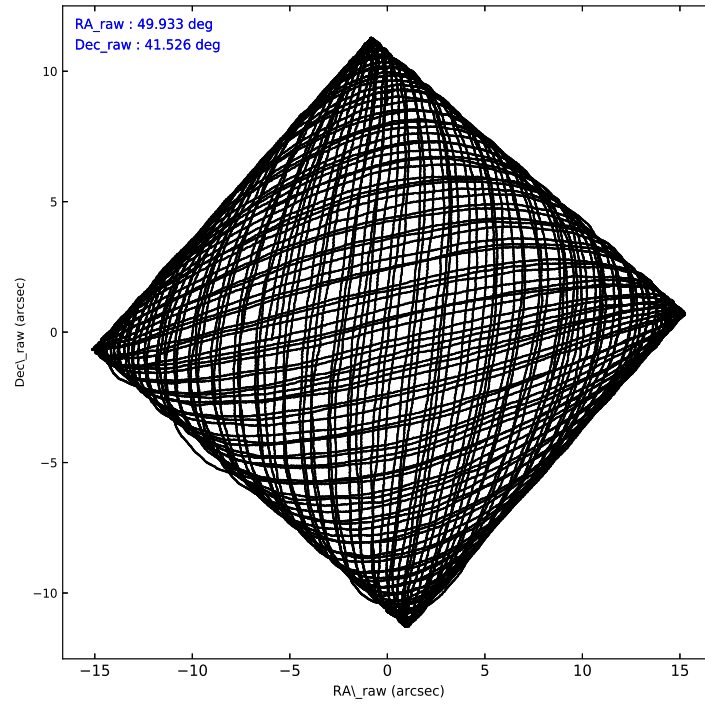
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
level 1 events	436034	490196	543745	789701	3956015
rejected events	311461	291779	232122	308658	236302
rejected %	71%	59%	42%	39%	5%

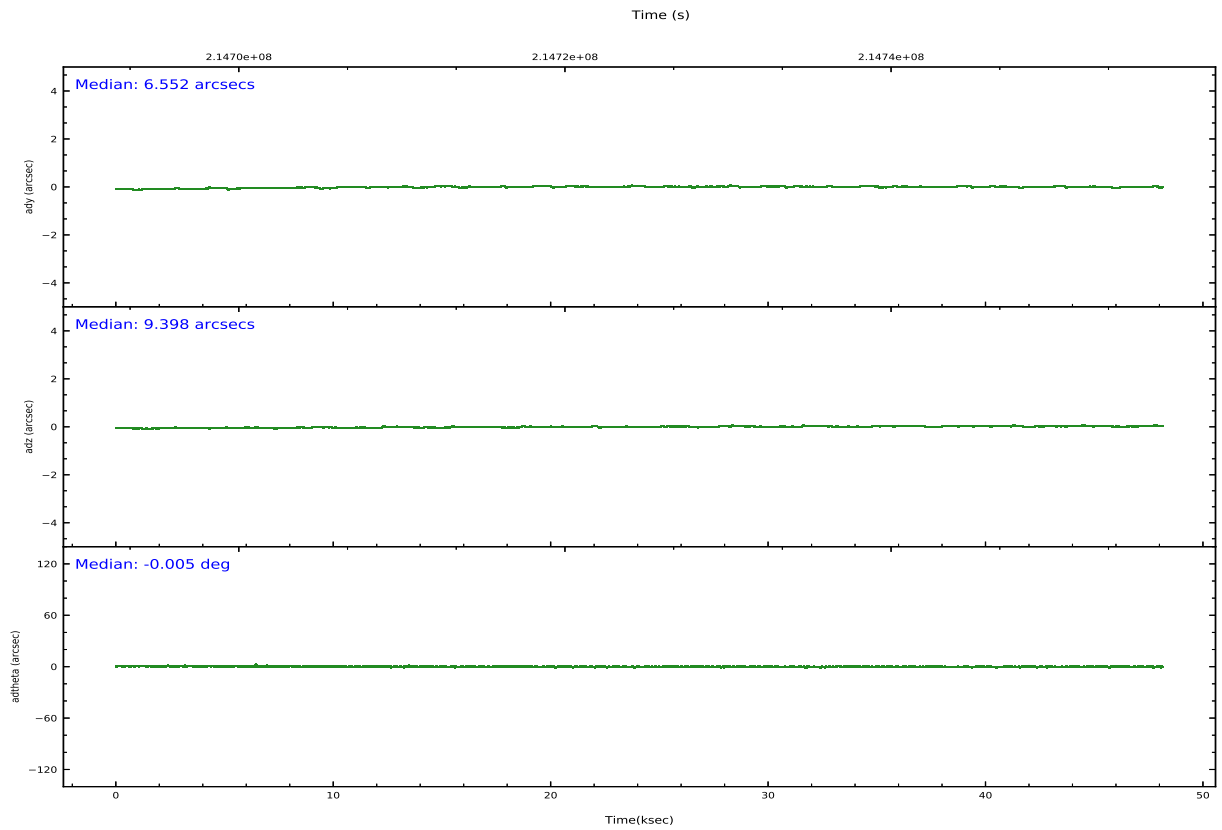
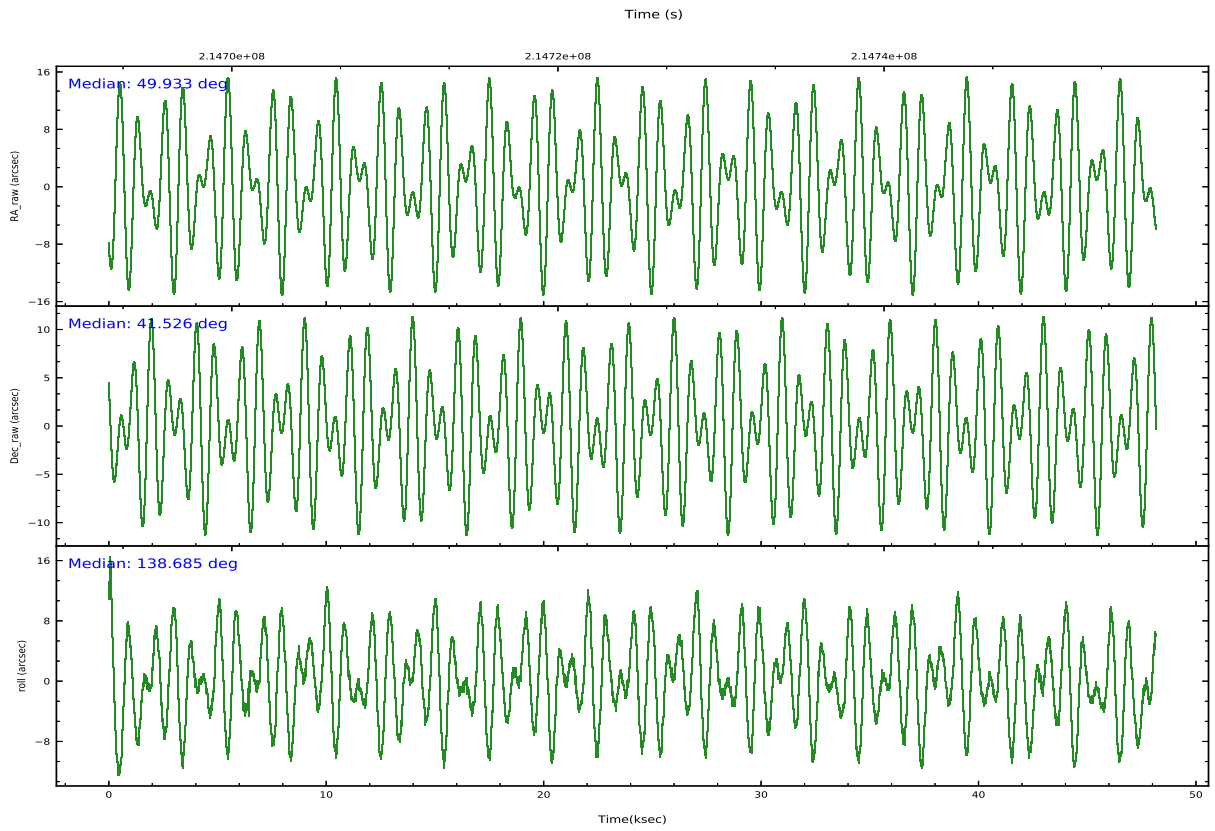
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
grade 0 events	86855	147229	66986	372104	1017867
	19%	30%	12%	47%	25%
grade 1 events	575	886	548	1699	2932
	0%	0%	0%	0%	0%
grade 2 events	16544	23398	88473	53660	978500
	3%	4%	16%	6%	24%
grade 3 events	6547	8918	16369	17722	434785
	1%	1%	3%	2%	10%
grade 4 events	6479	8710	15341	17673	428618
	1%	1%	2%	2%	10%
grade 5 events	10719	13032	36293	14374	63230
	2%	2%	6%	1%	1%
grade 6 events	8162	10182	124498	19946	860429
	1%	2%	22%	2%	21%
grade 7 events	300153	277841	195237	292523	169654
	68%	56%	35%	37%	4%

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	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	49.968755	49.93729719081	Subarray requested	NONE	NONE
[deg] Pointing Dec	41.520772	41.526548622115	Alternating exposures requested	N	N
[deg] Pointing Roll	138.509545	138.68485391573	[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)	214699530.184000	214699150.71981			
Observation start date	2004-10-20T22:44:26	2004-10-20T22:39:10			
[s] Observation end time (MET)	214747513.184000	214747728.03449			
Observation end date	2004-10-21T12:04:09	2004-10-21T12:08:48			
Read mode	TIMED	TIMED			

2.3 Aspect





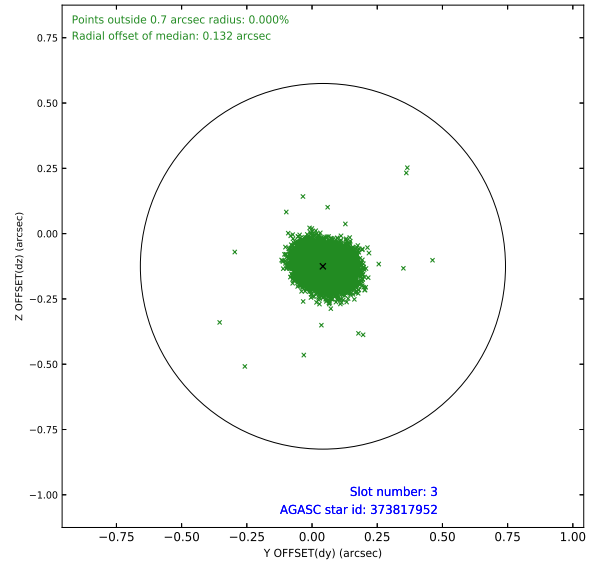
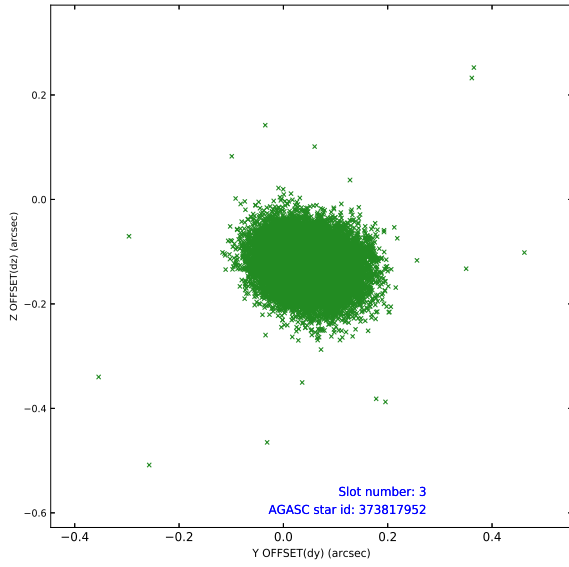
Slot Statistics

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	7.10	11747	1.000	-0.082	-0.074	0.007	0.011	0.000000	0.000000	-759.32	-1730
1	FID		ACIS-S-4	7.21	11749	1.000	0.144	0.059	0.005	0.010	0.000000	0.000000	2154.14	178
2	FID		ACIS-S-5	7.23	11749	1.000	-0.093	0.023	0.006	0.011	0.000000	0.000000	-1812.24	171
3	GUIDE	used	373817952	8.74	23488	1.000	0.042	-0.125	0.064	0.105	49.913424	40.978510	-1180.78	1561
4	GUIDE	used	373826120	8.90	23487	1.000	0.013	-0.061	0.074	0.119	49.738165	41.186341	-329.24	1315
5	GUIDE	used	374352576	9.71	23457	1.000	0.051	0.054	0.099	0.162	48.746850	41.454001	2325.52	2347
6	GUIDE	used	374352808	8.77	23480	1.000	-0.098	0.086	0.067	0.108	49.969955	42.208621	1638.59	-1856
7	GUIDE	used	376057824	8.35	23494	1.000	-0.014	0.048	0.068	0.111	50.665569	41.926280	-425.48	-2335

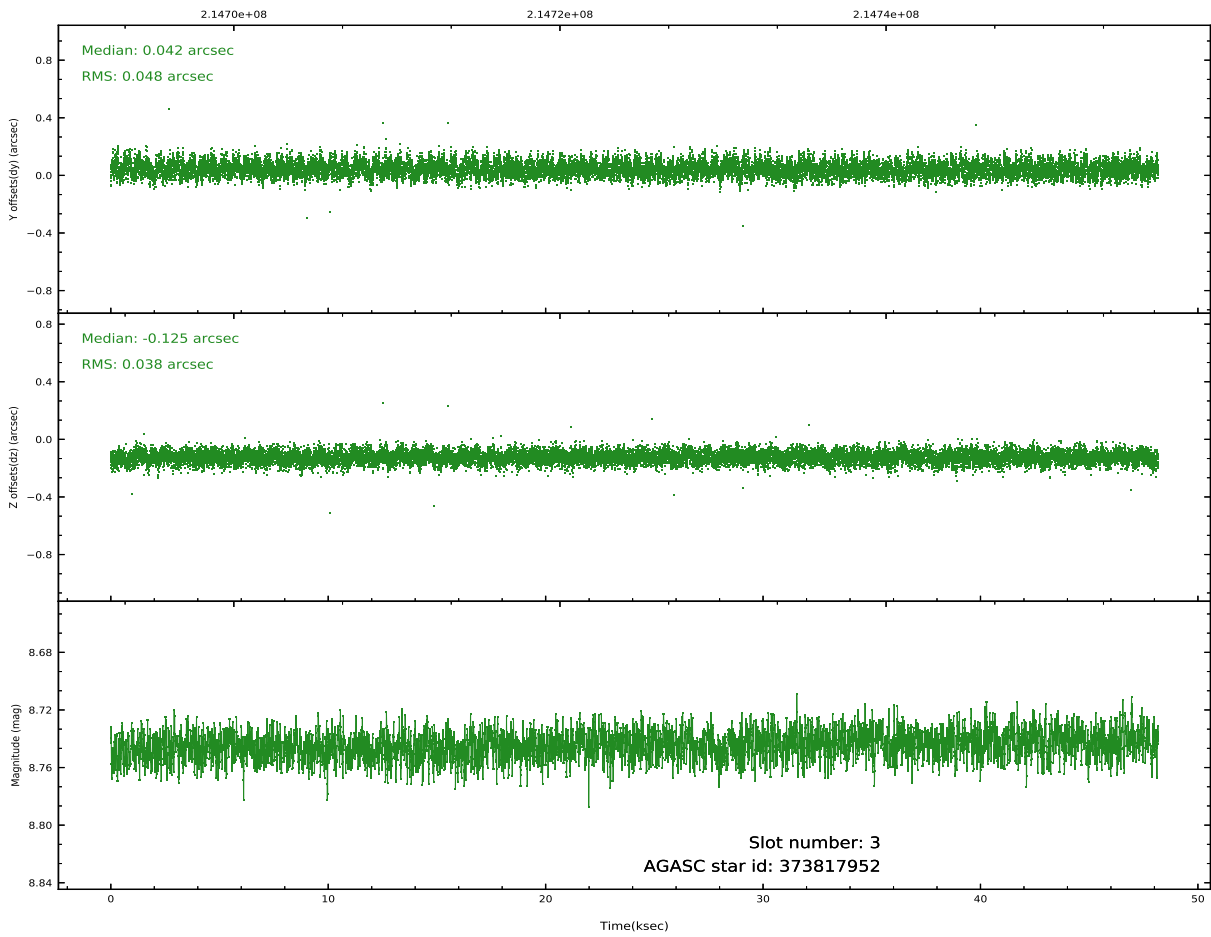
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2.4 Star Slots

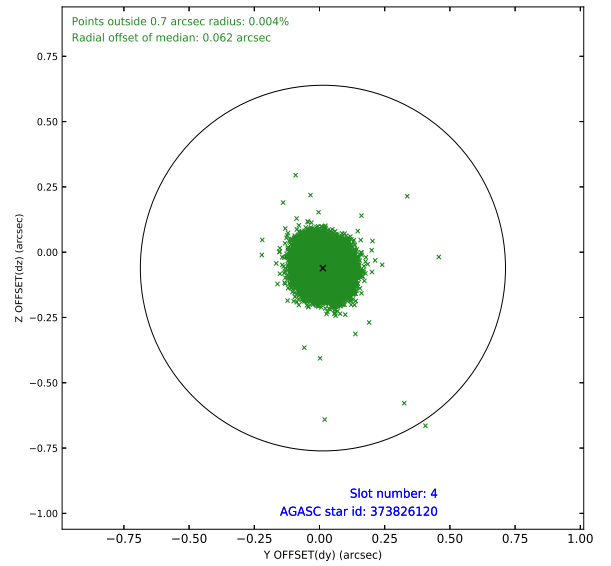
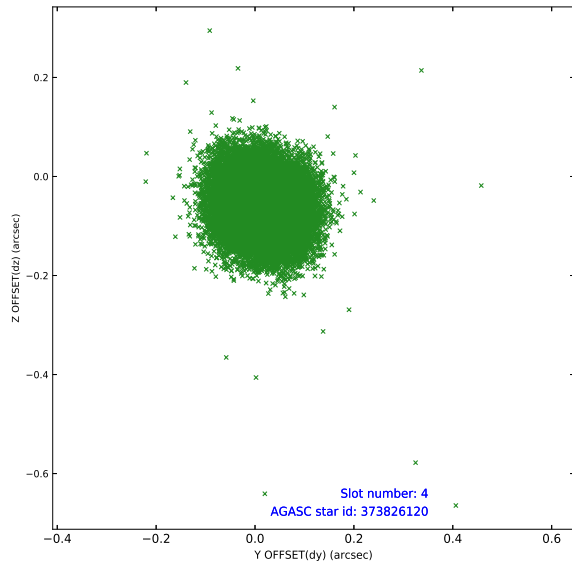
2.4.1 Slot 3



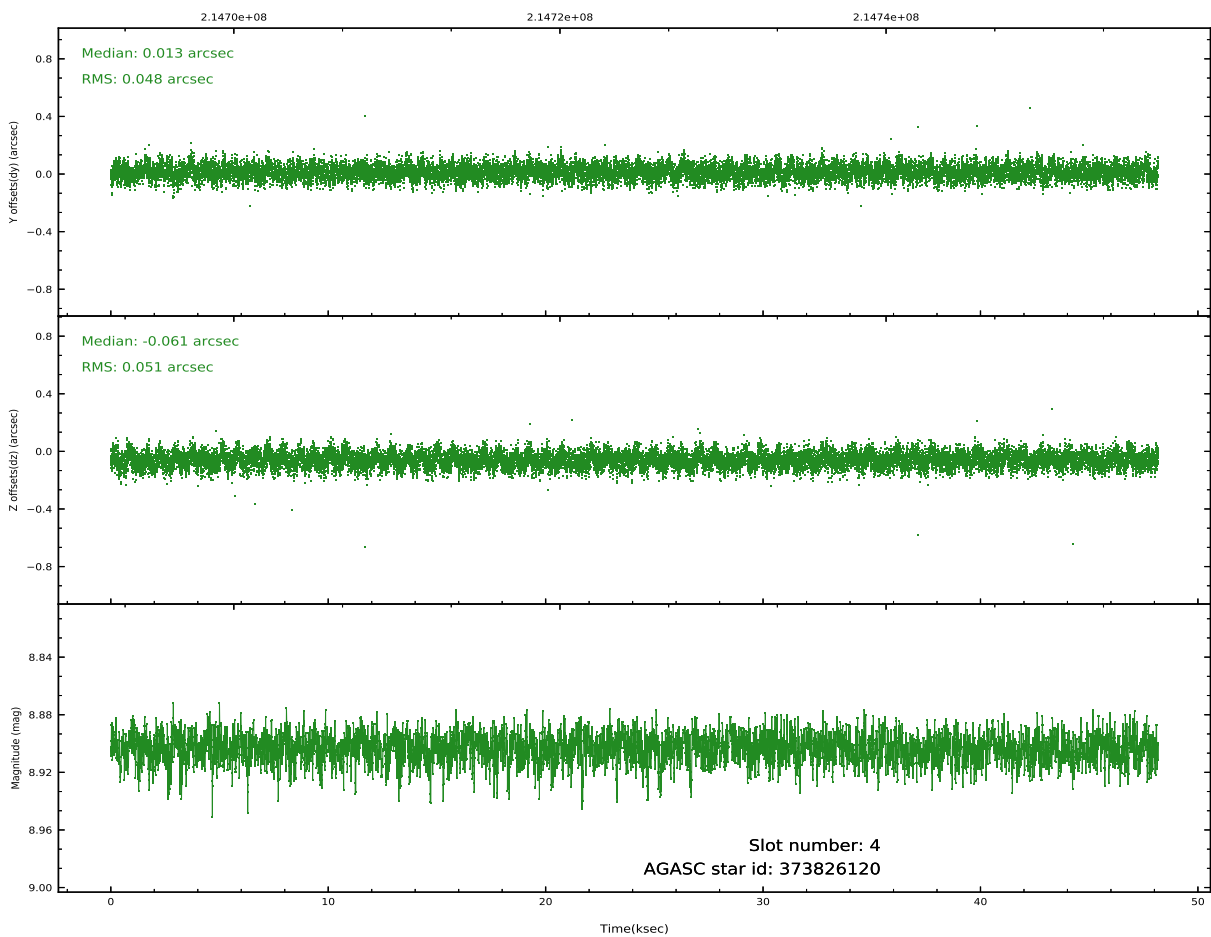
Time (s)



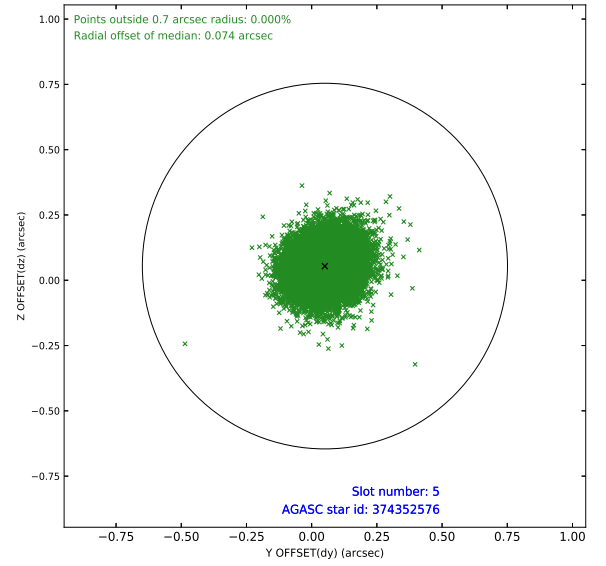
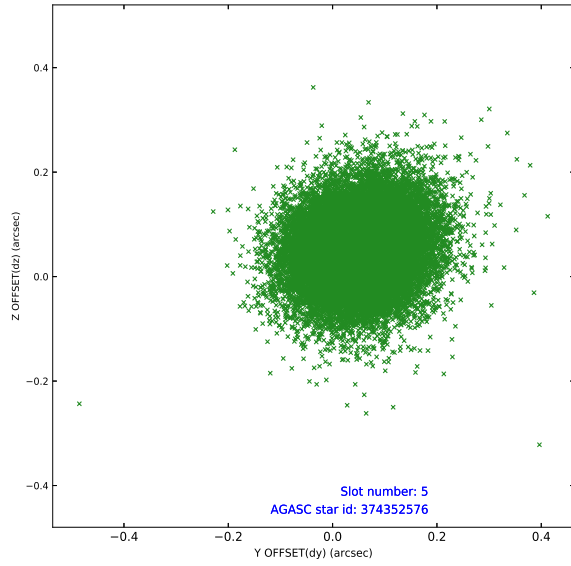
2.4.2 Slot 4



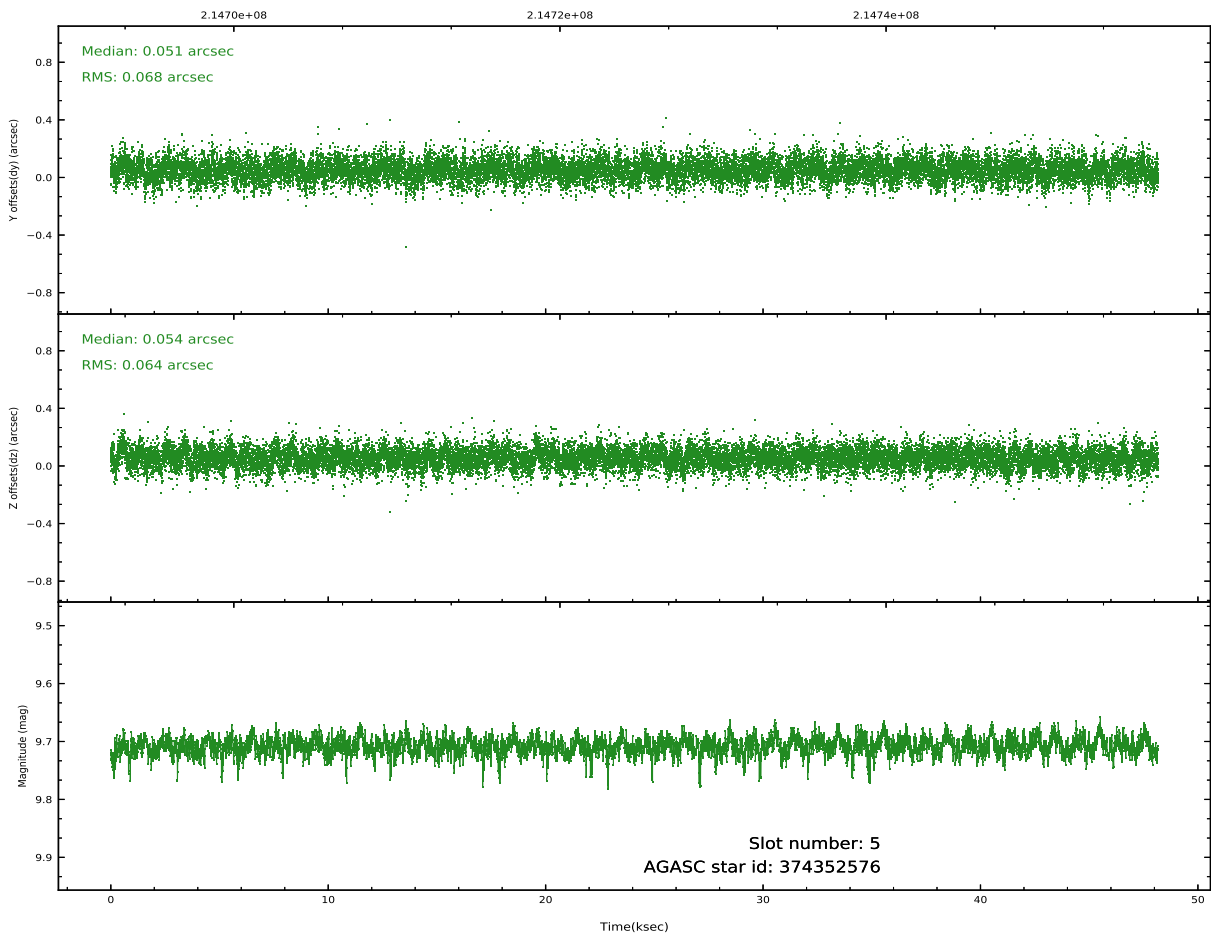
Time (s)



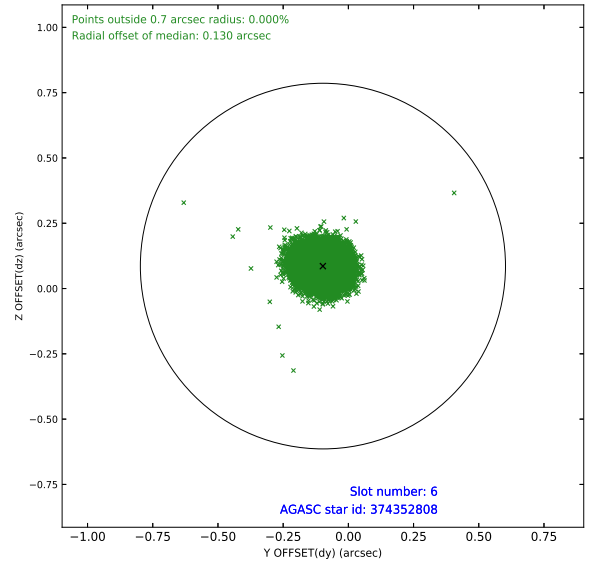
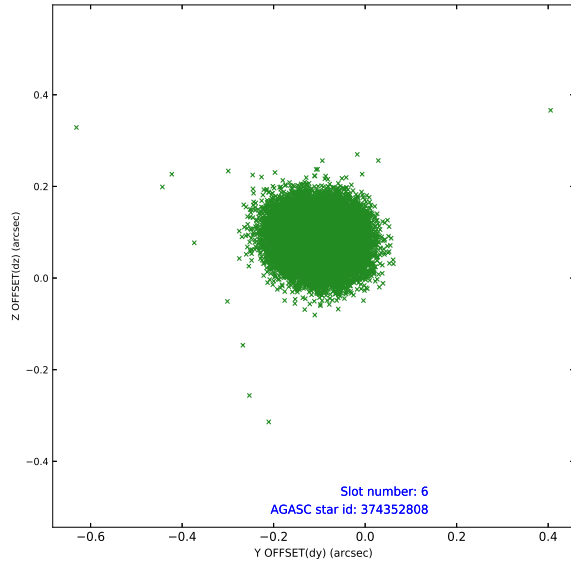
2.4.3 Slot 5



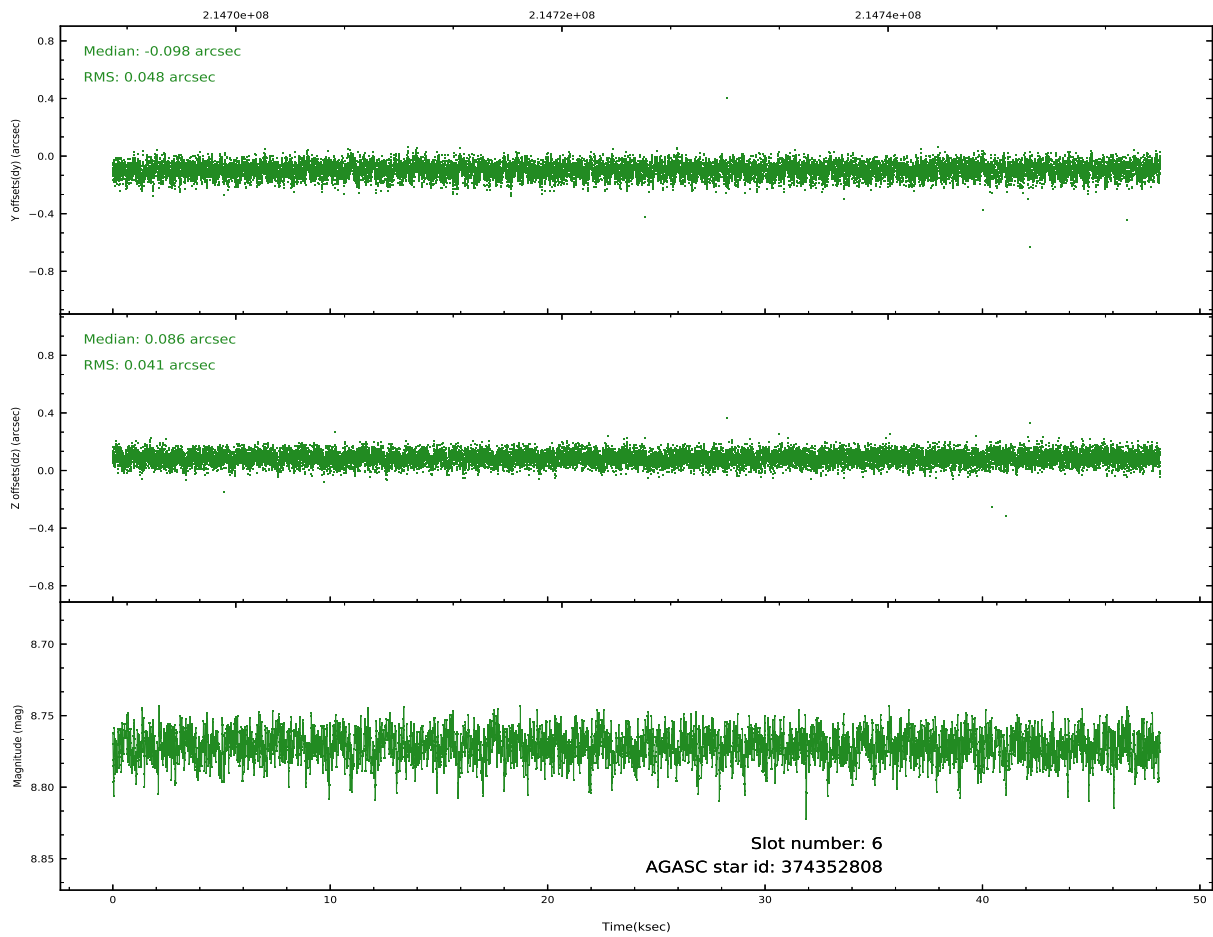
Time (s)



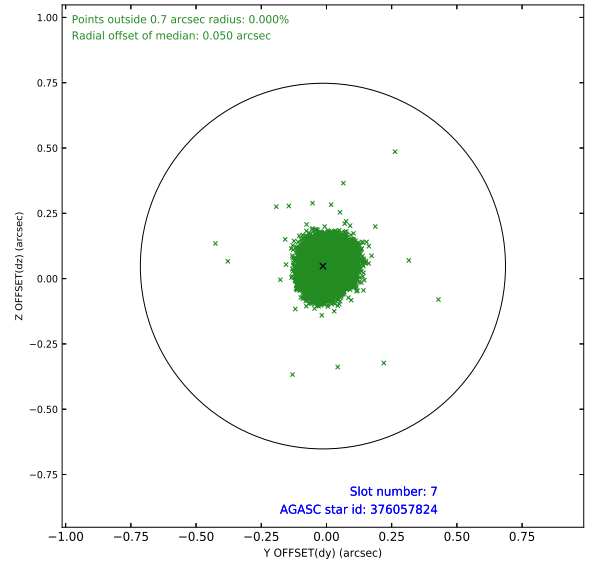
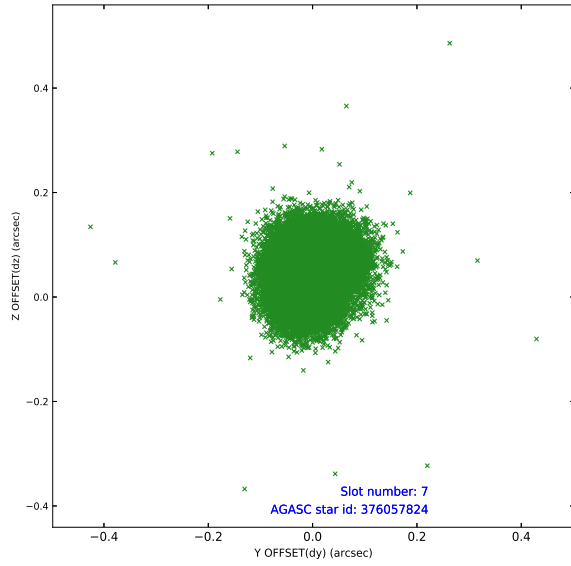
2.4.4 Slot 6



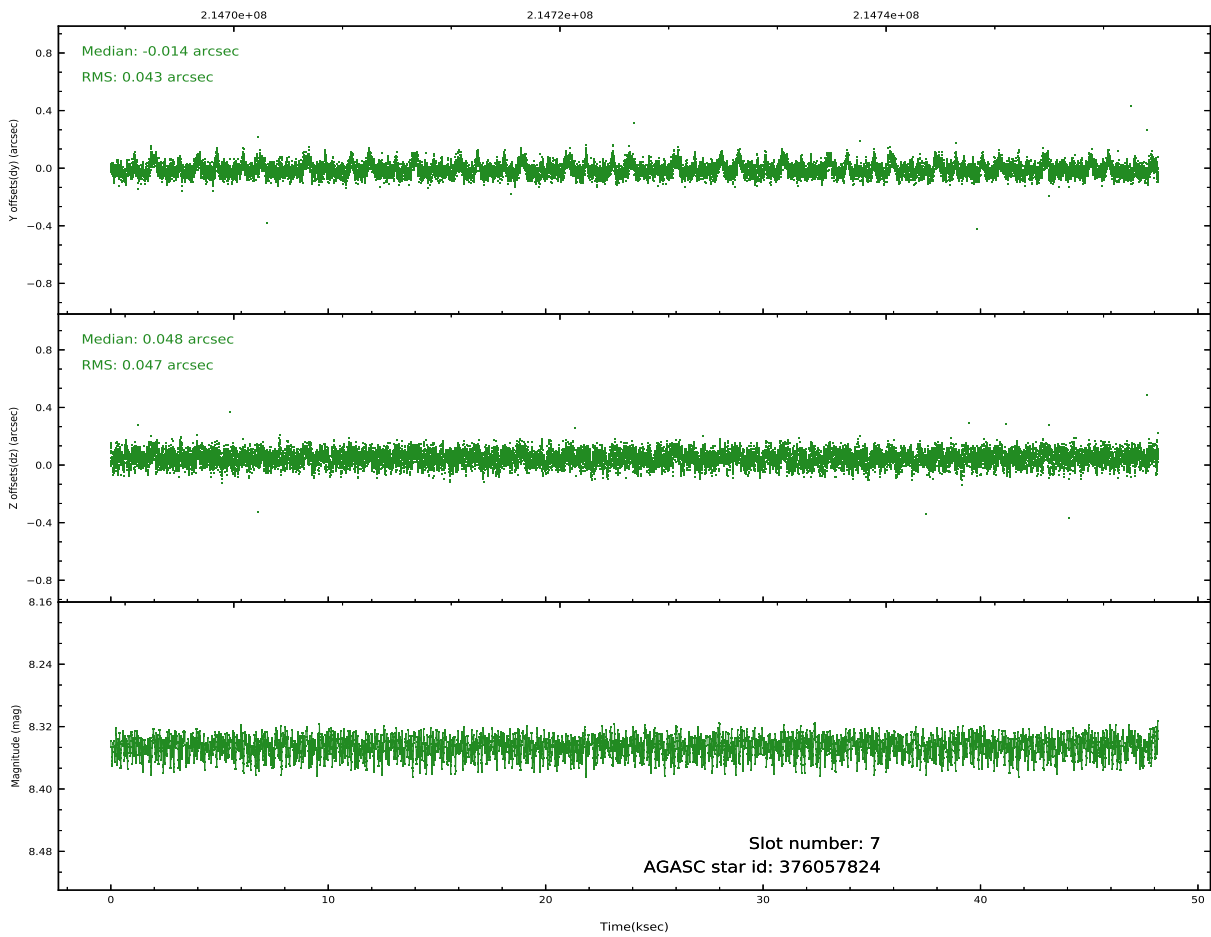
Time (s)



2.4.5 Slot 7

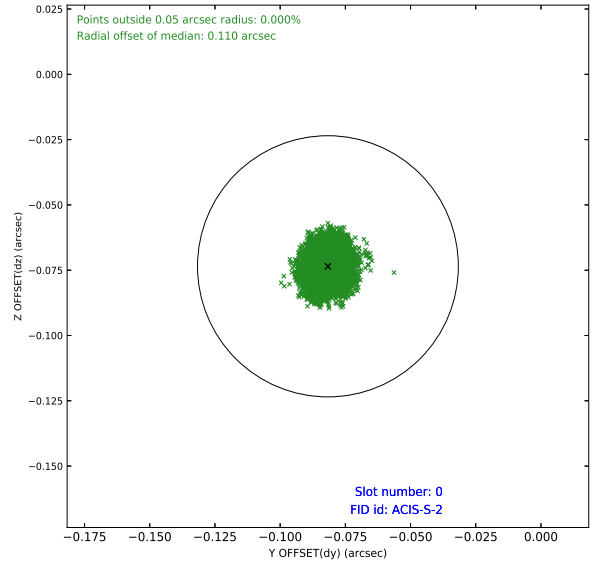
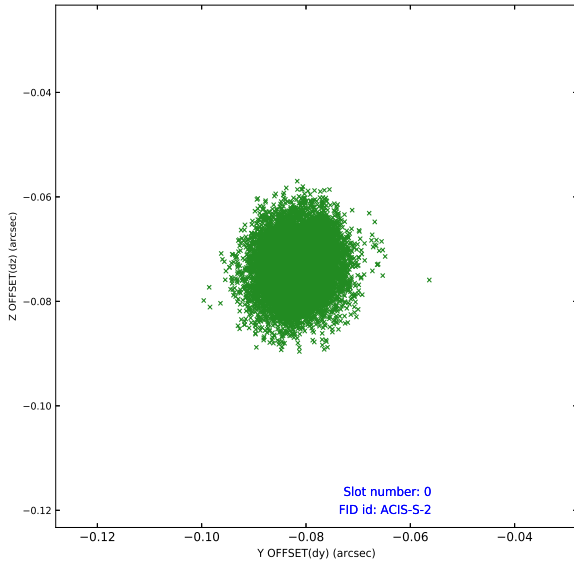


Time (s)

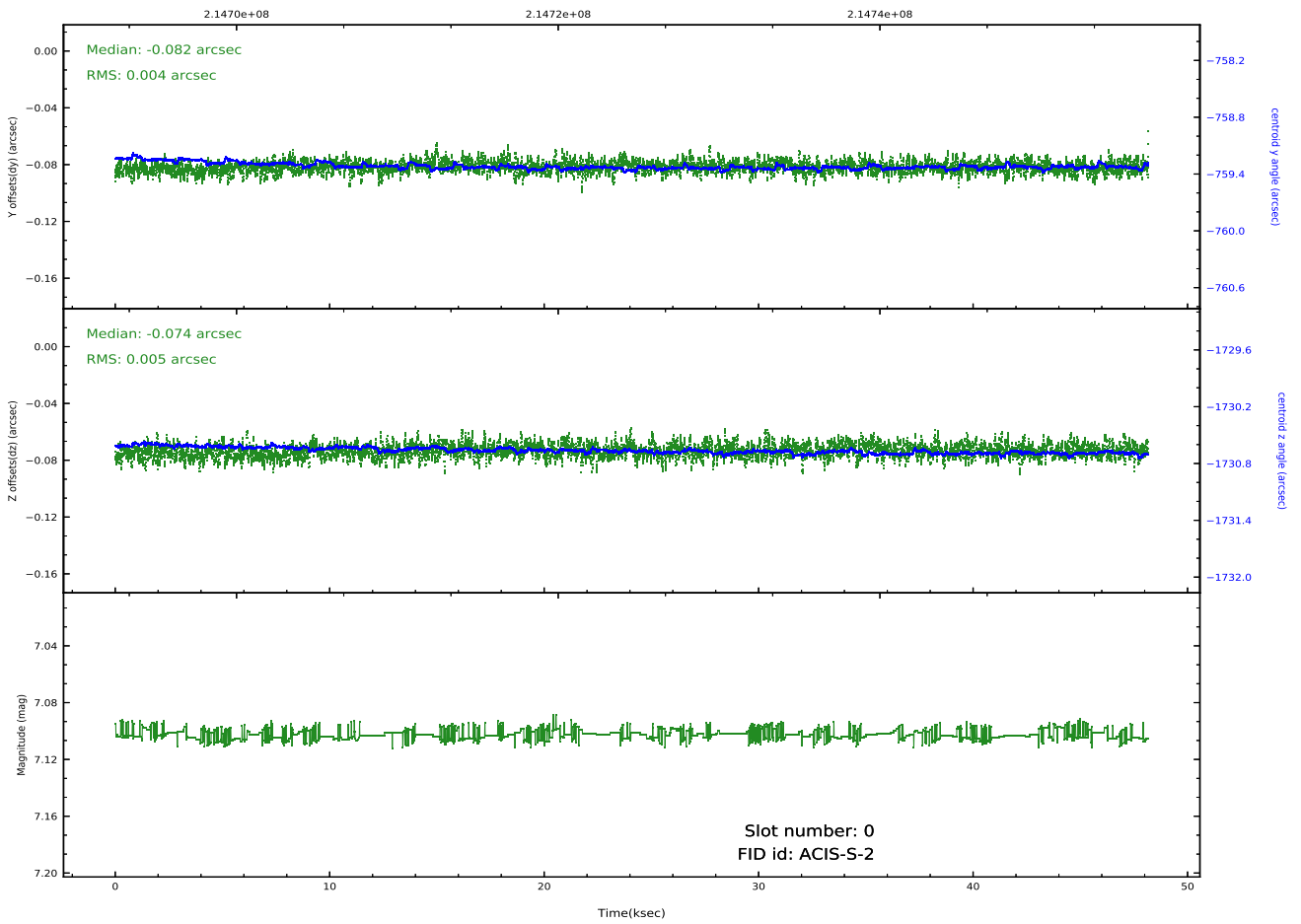


2.5 FID Slots

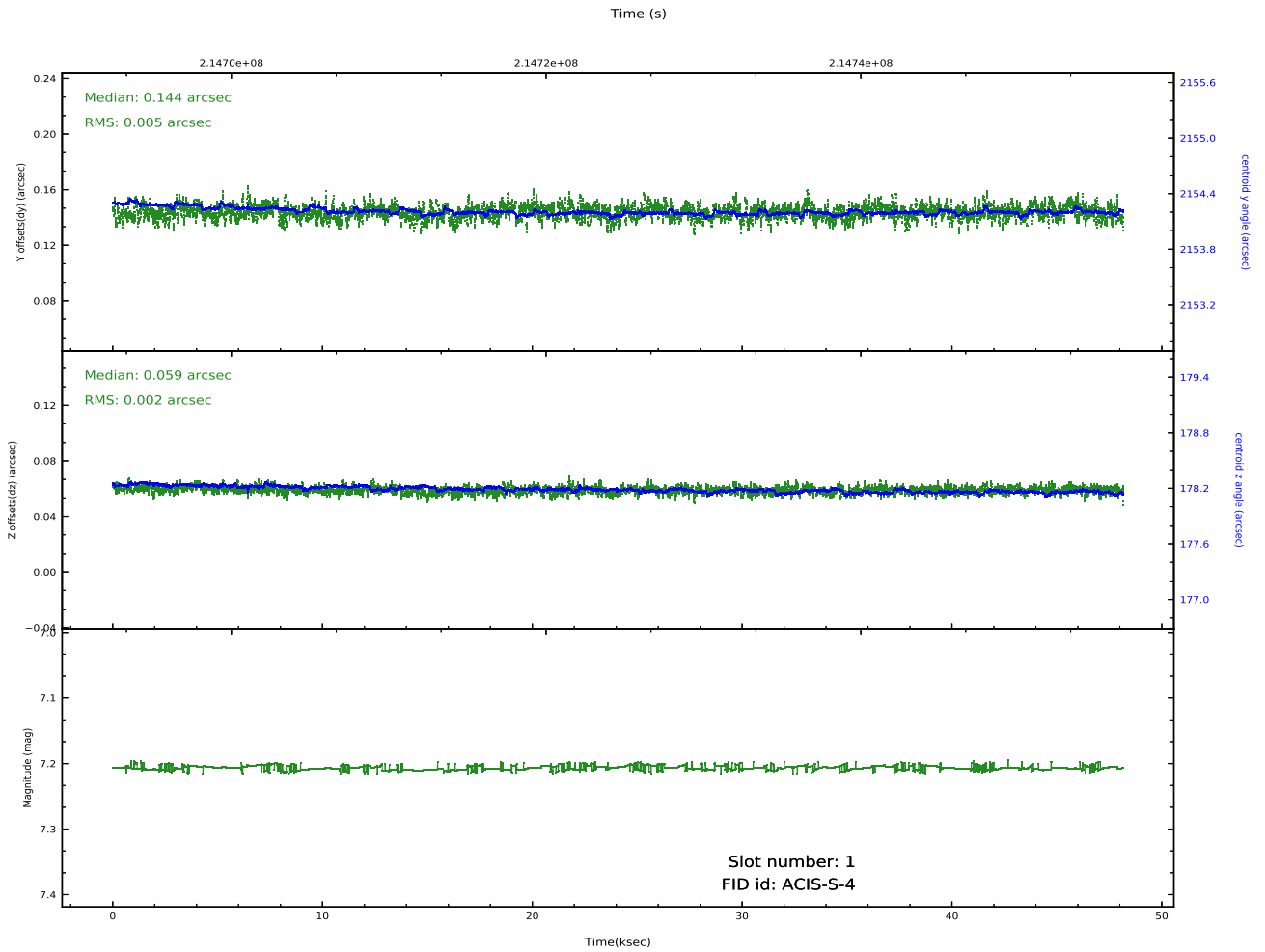
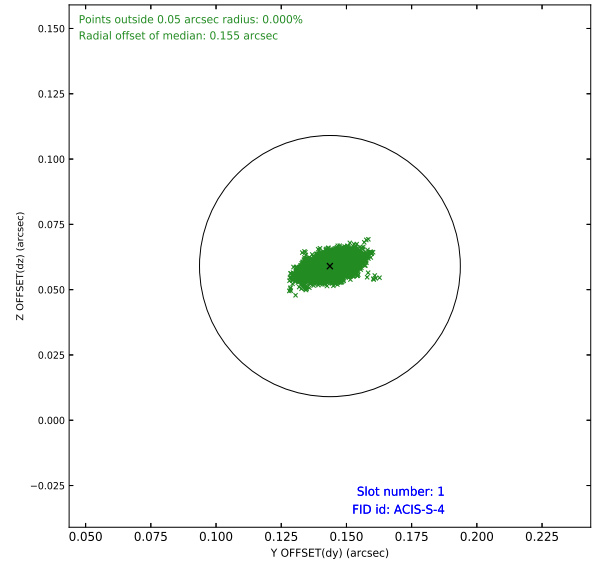
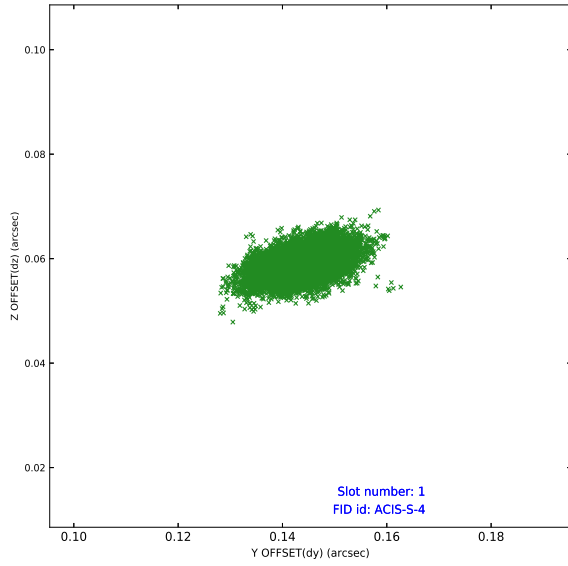
2.5.1 Slot 0



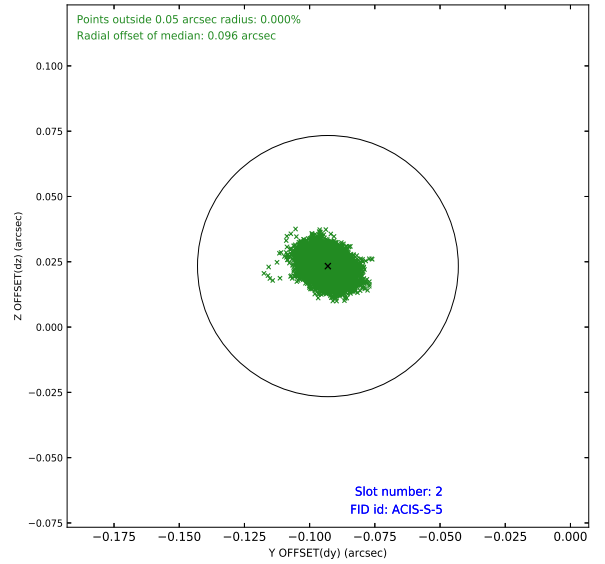
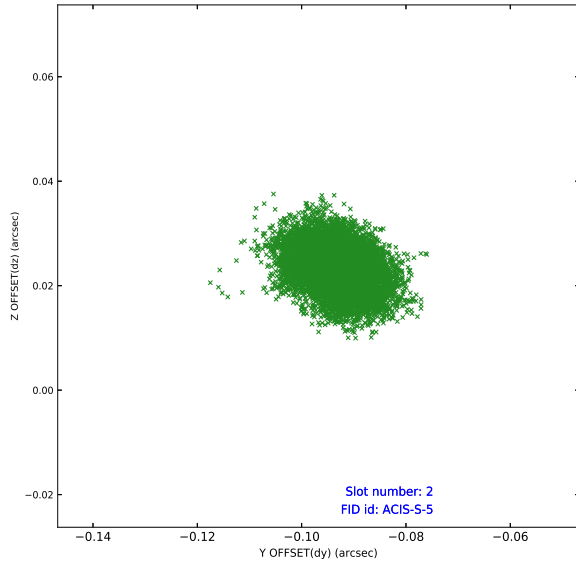
Time (s)



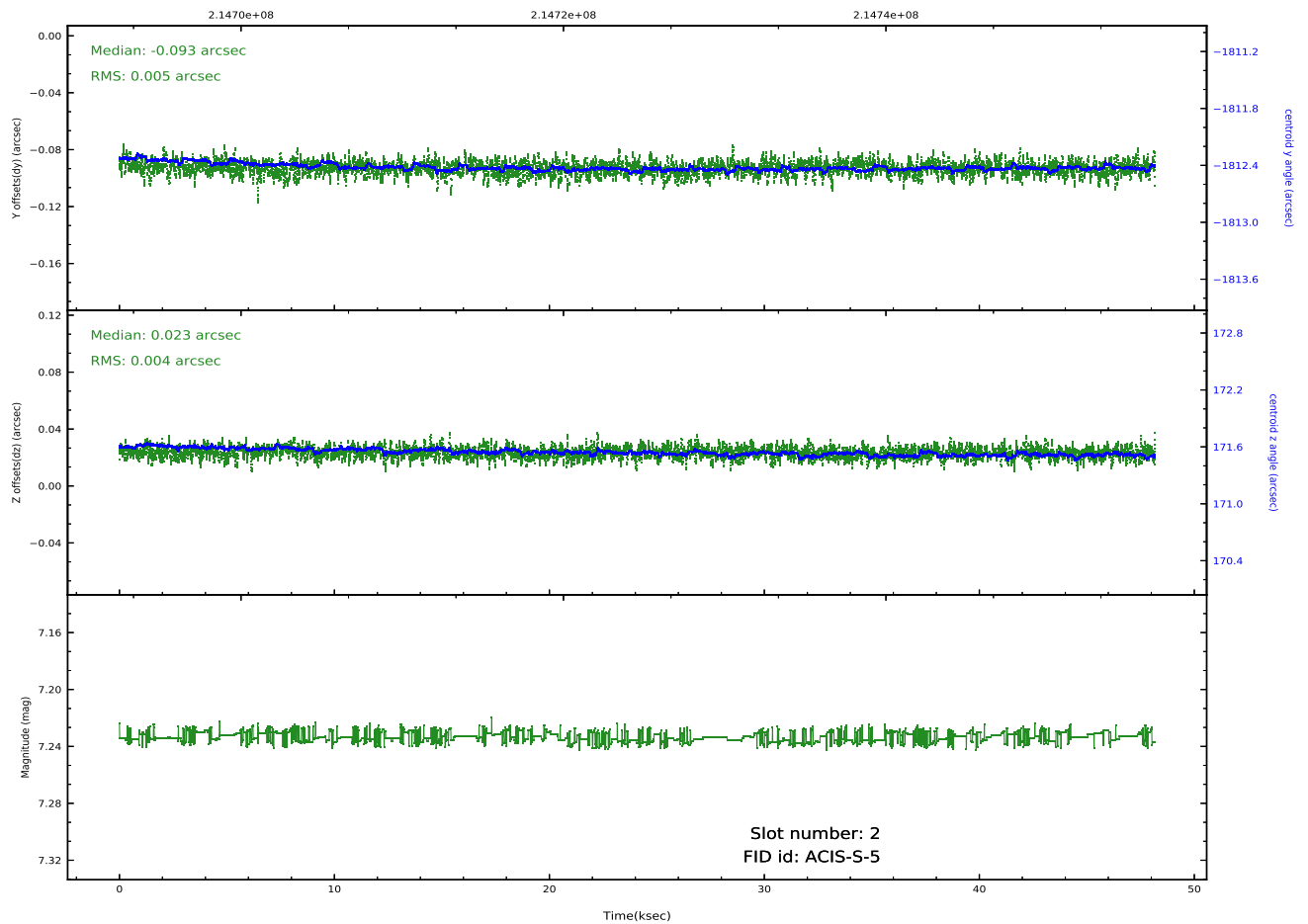
2.5.2 Slot 1



2.5.3 Slot 2



Time (s)



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2020.10.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	47.752

A.2 Comments