

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 4942 - L2 Version 4
Chandra X-Ray Center

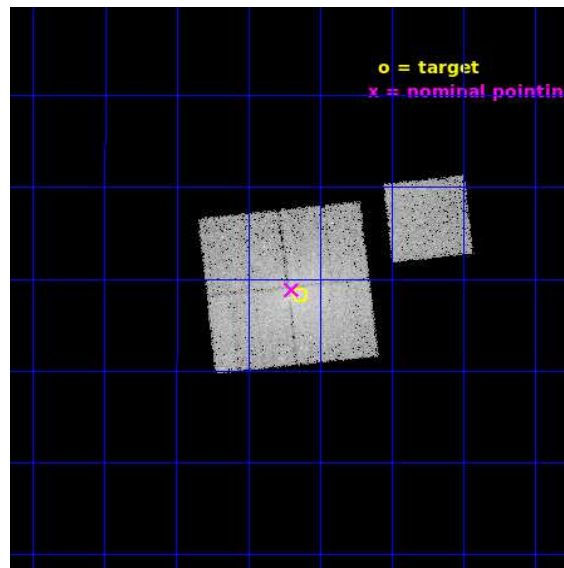
L2 Processing Date : Oct 7 2020

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

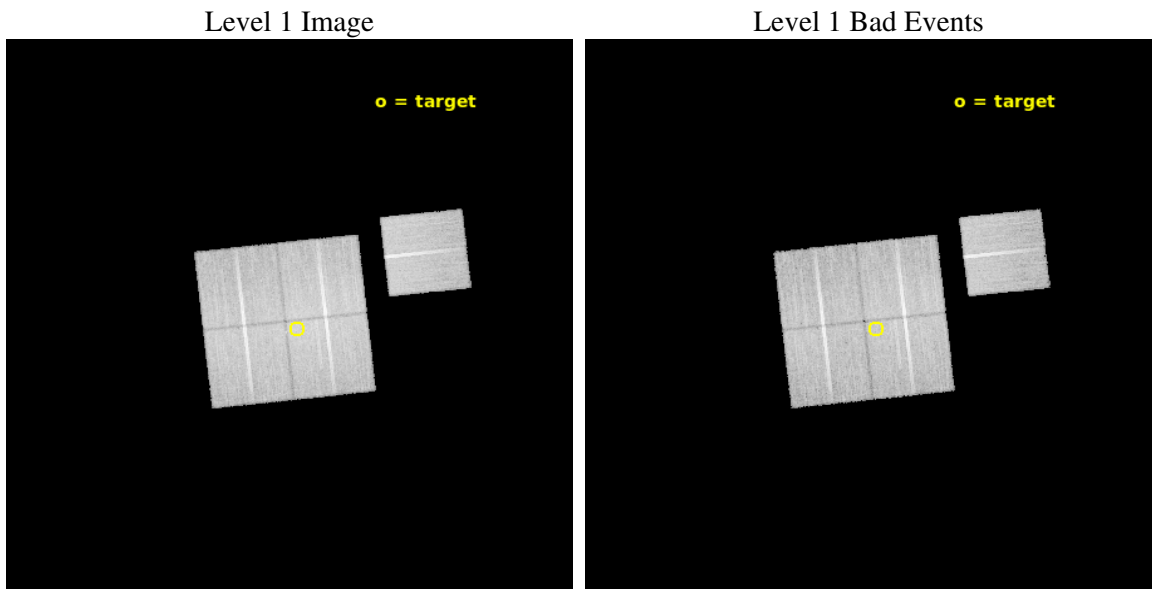
seq_num	800393	Sequence number
obs_id	4942	Observation id
title	THE HIFLUGCS CLUSTER SURVEY: A CORNERSTONE FOR COSMOLOGY	Proposal
observer	Dr. Thomas Reiprich	Principal investigator
object	MKW8	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	220.159583	Observer's specified target RA [deg]
dec_targ	3.471722	Observer's specified target Dec [deg]
ra_nom	220.17348653829	Nominal RA [deg]
dec_nom	3.4807945022602	Nominal Dec [deg]
roll_nom	83.678857520885	Nominal Roll [deg]
revision	4	Processing version of data
ontime	23447.188491851	Sum of GTIs [s]
livetime	23140.833712636	Livetime [s]
ontime0	23453.347352326	Sum of GTIs [s]
ontime1	23450.247412086	Sum of GTIs [s]
ontime2	23450.288452089	Sum of GTIs [s]
ontime3	23447.188491851	Sum of GTIs [s]
ontime6	23453.306312323	Sum of GTIs [s]
l2events	95328	Number of level 2 events



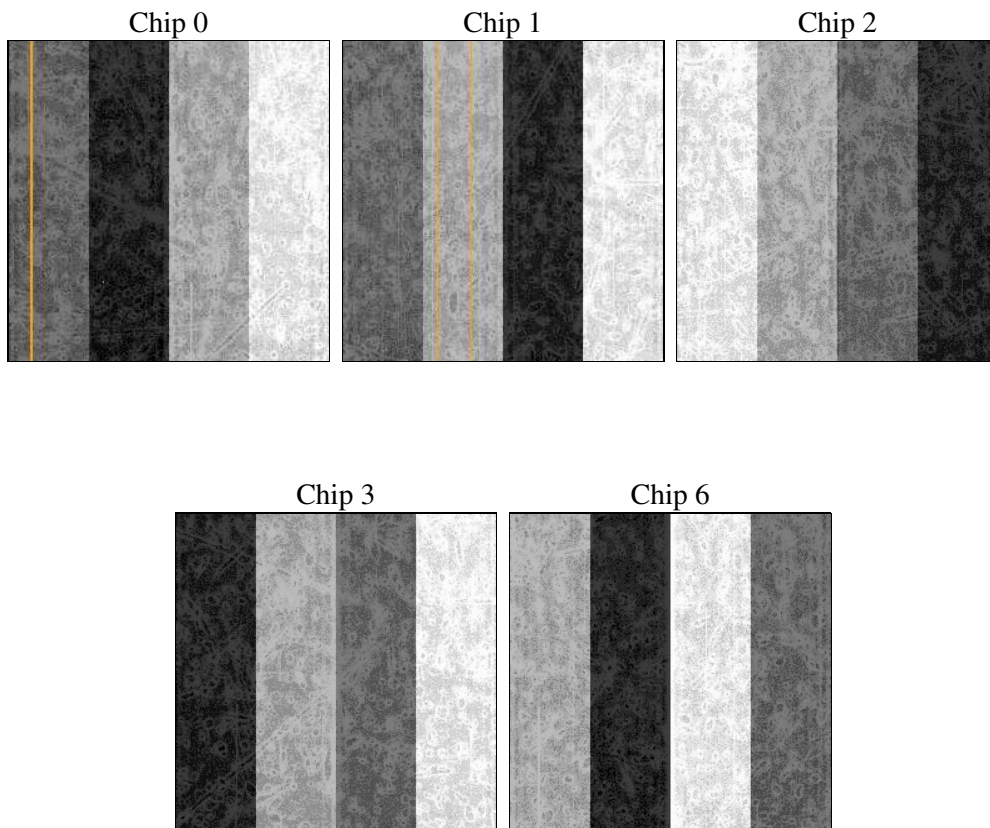
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	23400.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	23447.188491851	Sum of GTIs [s]
caldbver	4.9.2	 	ontime0	23453.347352326	Sum of GTIs [s]
date	2020-10-07T03:45:38	Date and time of file creation	ontime1	23450.247412086	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	23450.288452089	Sum of GTIs [s]
			ontime3	23447.188491851	Sum of GTIs [s]
			ontime6	23453.306312323	Sum of GTIs [s]
			l1events	752186	Number of level 1 events

2.1.4 Events

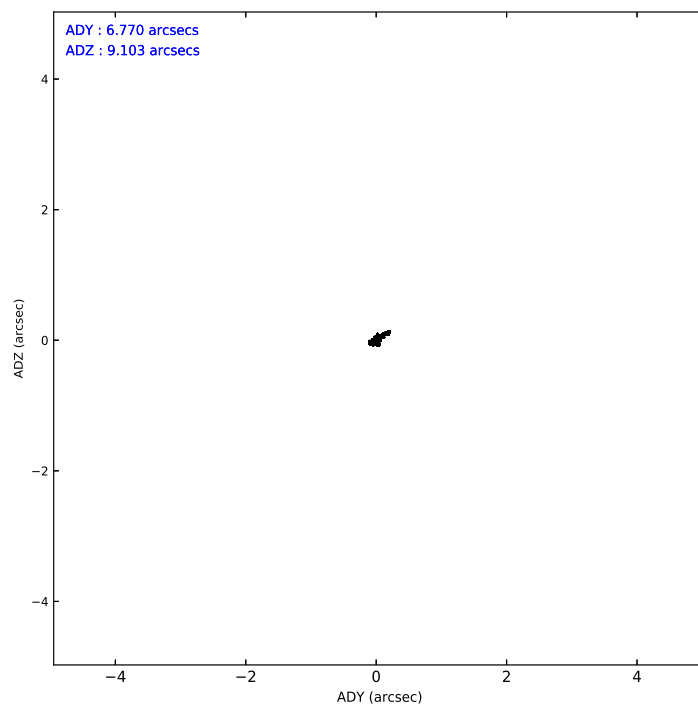
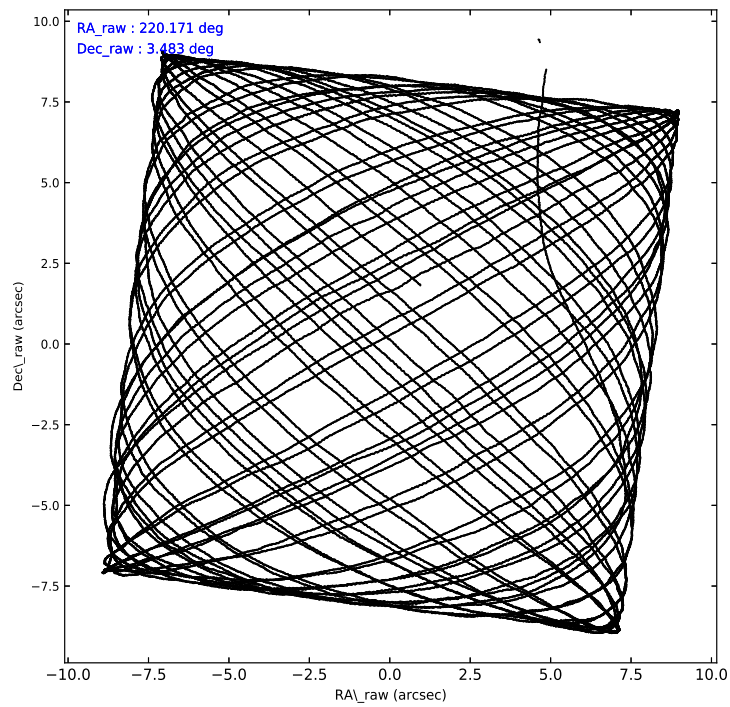
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	138579	145725	161923	158381	147578
rejected events	119269	120163	139900	131385	131636
rejected %	86%	82%	86%	82%	89%

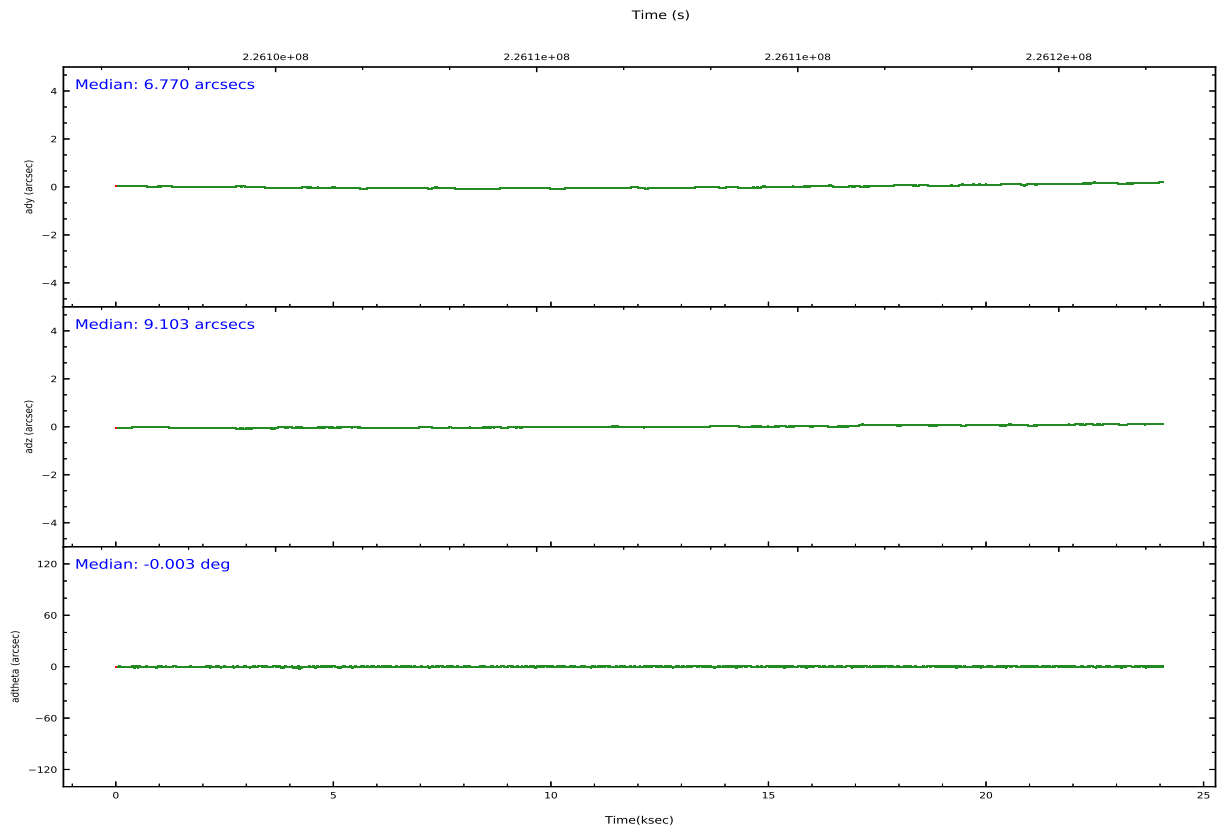
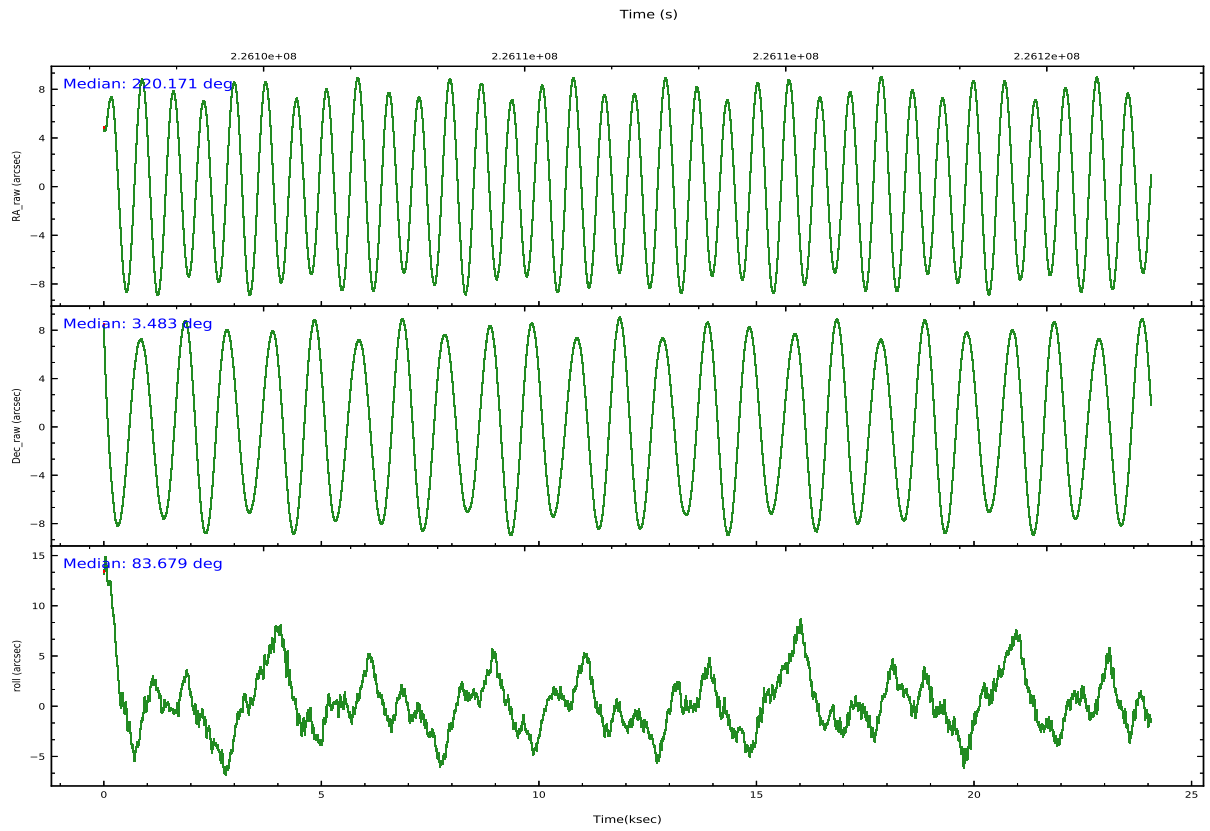
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	9149	13608	11586	15920	5967
	6%	9%	7%	10%	4%
grade 1 events	100	112	101	147	66
	0%	0%	0%	0%	0%
grade 2 events	3753	4335	3938	4222	3319
	2%	2%	2%	2%	2%
grade 3 events	1821	2060	1790	2010	1729
	1%	1%	1%	1%	1%
grade 4 events	1699	2016	1850	1904	1725
	1%	1%	1%	1%	1%
grade 5 events	5269	5549	4956	5849	5826
	3%	3%	3%	3%	3%
grade 6 events	2890	3551	2863	2944	3202
	2%	2%	1%	1%	2%
grade 7 events	113898	114494	134839	125385	125744
	82%	78%	83%	79%	85%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-01236	ACIS-01236	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	220.182220	220.17348653829	Subarray requested	NONE	NONE
[deg] Pointing Dec	3.458061	3.4807945022602	Alternating exposures requested	N	N
[deg] Pointing Roll	83.472476	83.678857520885	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	226098998.184000	226097828.24573			
Observation start date	2005-03-01T21:15:34	2005-03-01T20:57:08			
[s] Observation end time (MET)	226122398.184000	226122700.89686			
Observation end date	2005-03-02T03:45:34	2005-03-02T03:51:40			
Read mode	TIMED	TIMED			

2.3 Aspect





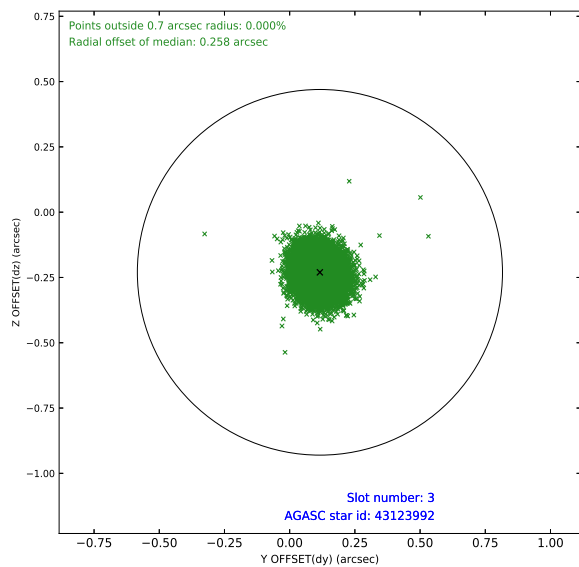
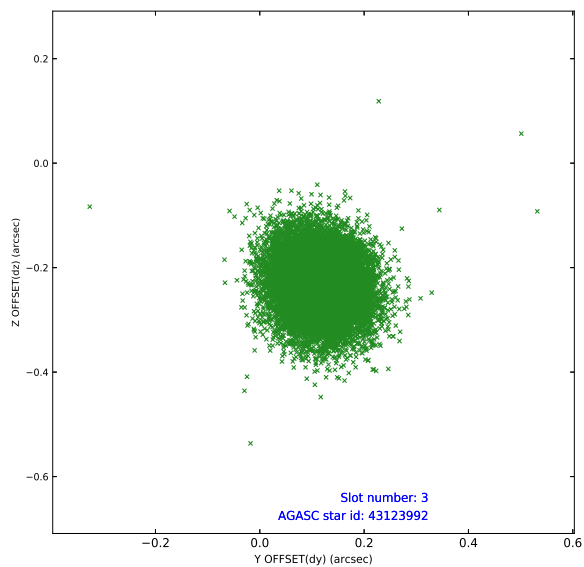
Slot Statistics

slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_x
0	FID		ACIS-I-1	7.25	5872	1.000	0.011	0.014	0.007	0.012	0.000000	0.000000	932.93	-832
1	FID		ACIS-I-5	7.23	5872	1.000	-0.195	0.022	0.007	0.011	0.000000	0.000000	-1815.33	1064
2	FID		ACIS-I-6	7.26	5872	1.000	0.092	0.034	0.007	0.012	0.000000	0.000000	398.38	1709
3	GUIDE	used	43123992	9.19	11734	1.000	0.116	-0.230	0.079	0.126	220.073183	3.041813	-1532.84	218
4	GUIDE	used	43125384	9.24	11736	1.000	0.106	0.020	0.085	0.134	220.495715	3.039281	-1369.00	-1291
5	GUIDE	used	43126952	9.10	11737	1.000	-0.153	0.030	0.098	0.164	220.546654	3.938620	1867.99	-1103
6	GUIDE	used	43128056	8.96	11735	1.000	-0.068	0.043	0.087	0.138	220.702521	4.045739	2315.81	-1615
7	GUIDE	used	43125480	9.77	11723	1.000	0.003	0.137	0.108	0.180	220.758854	2.752621	-2286.09	-2348

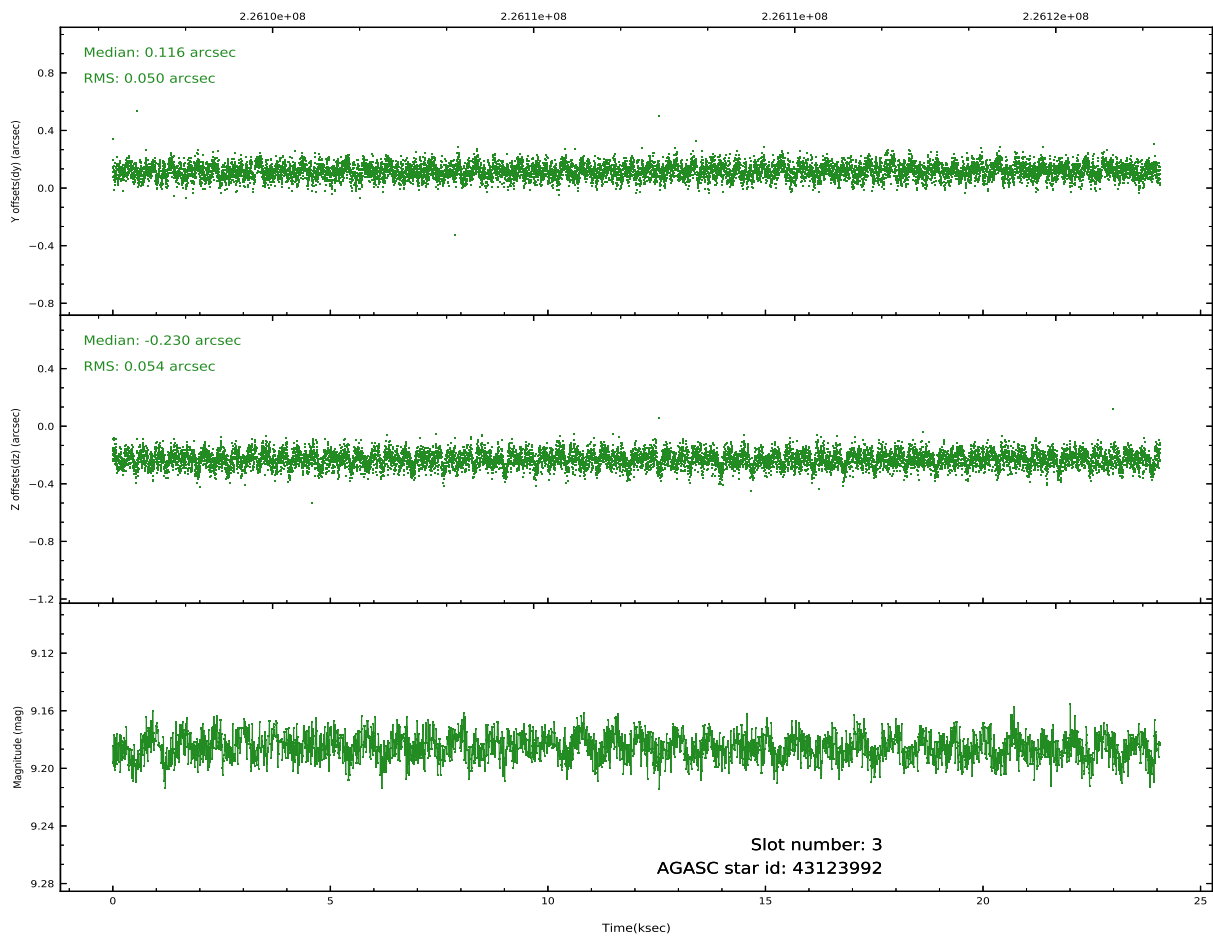
∞

2.4 Star Slots

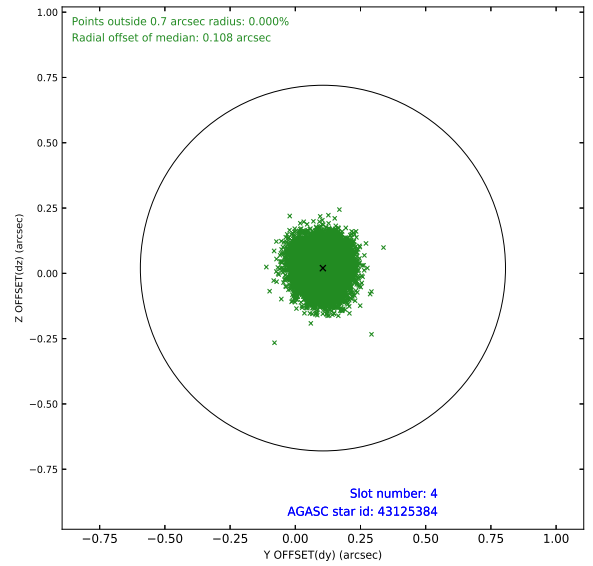
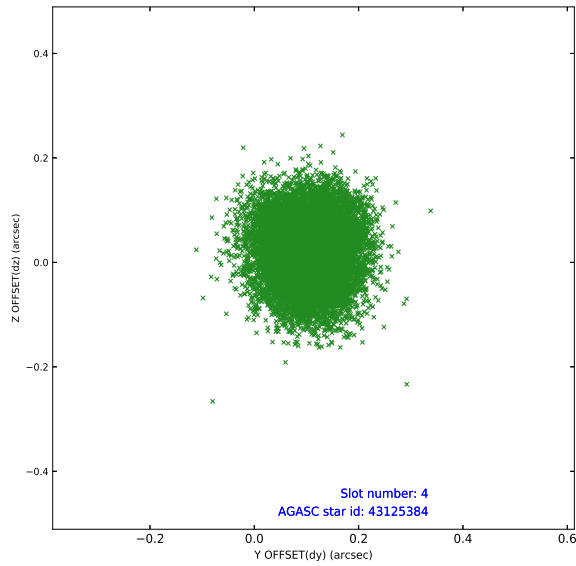
2.4.1 Slot 3



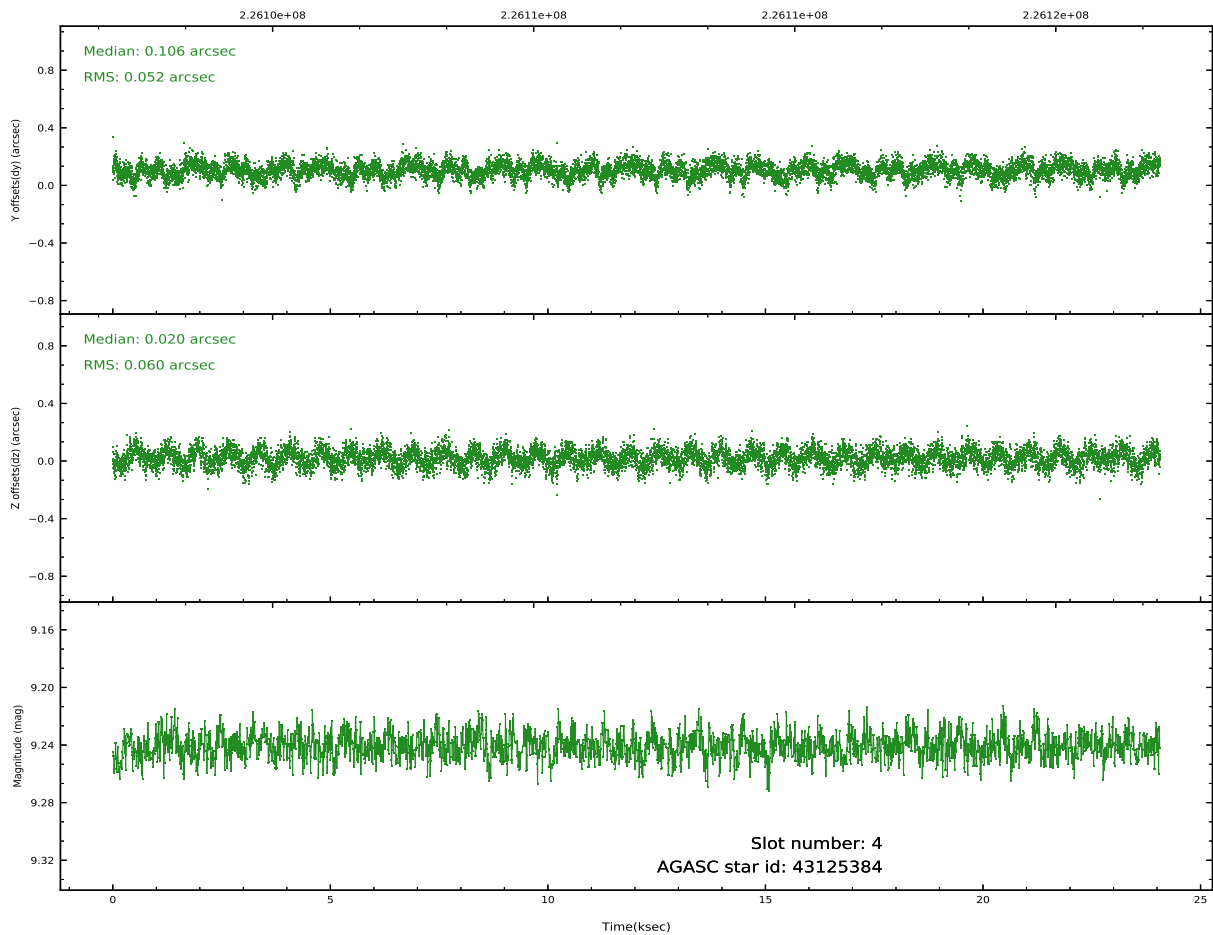
Time (s)



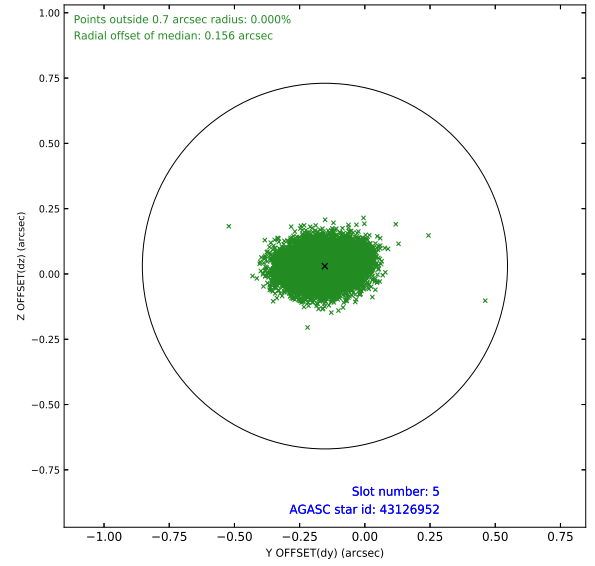
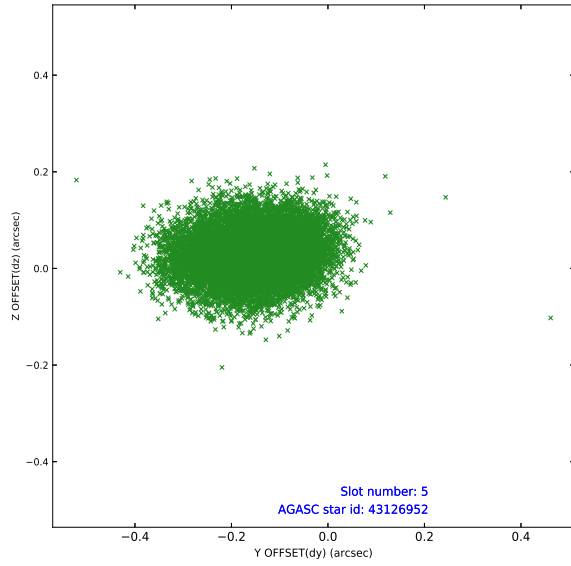
2.4.2 Slot 4



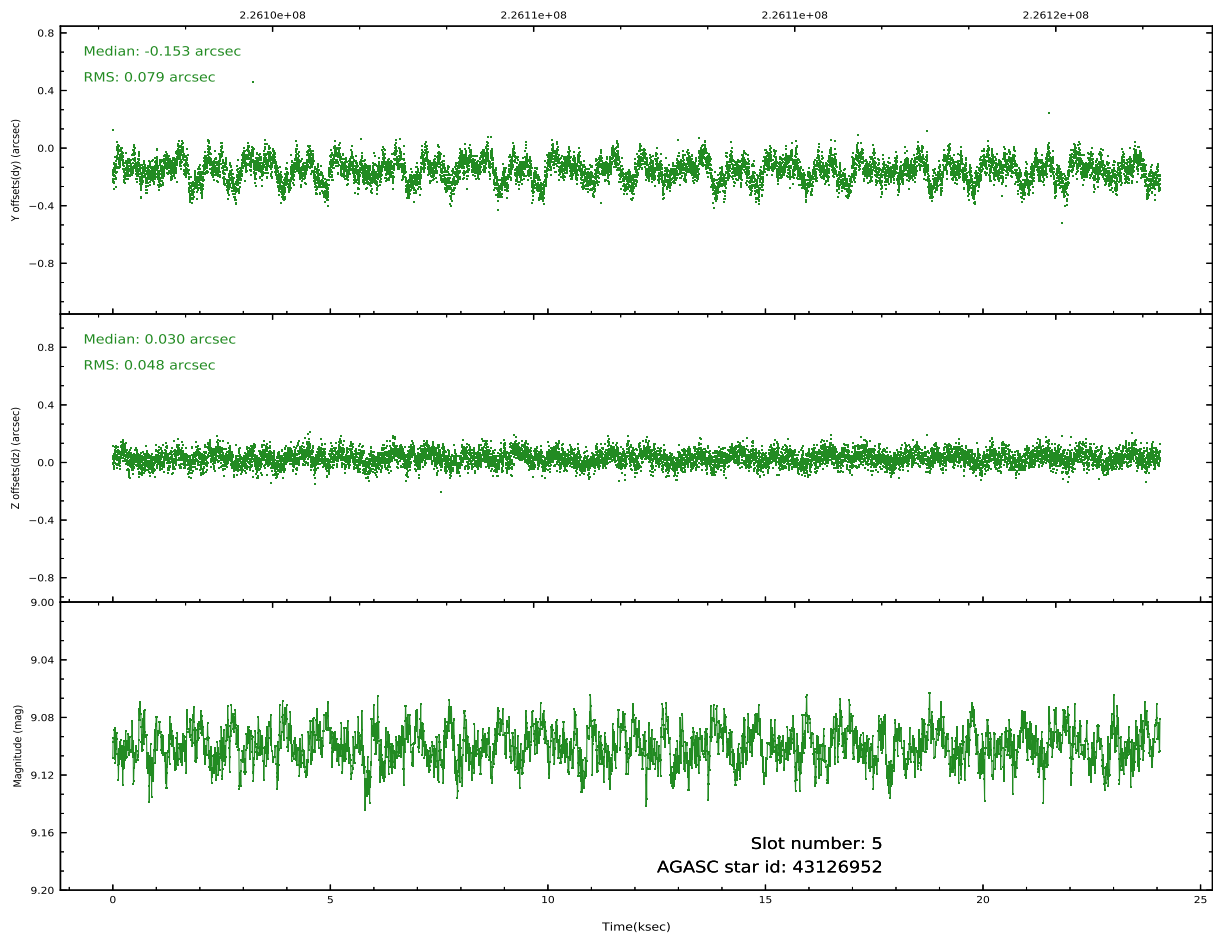
Time (s)



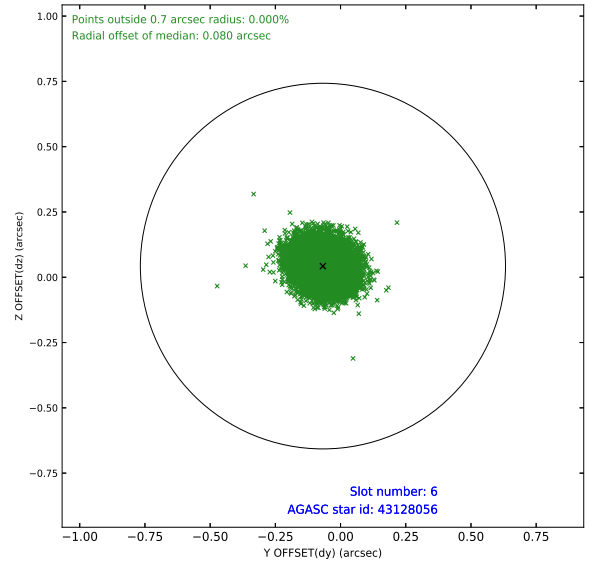
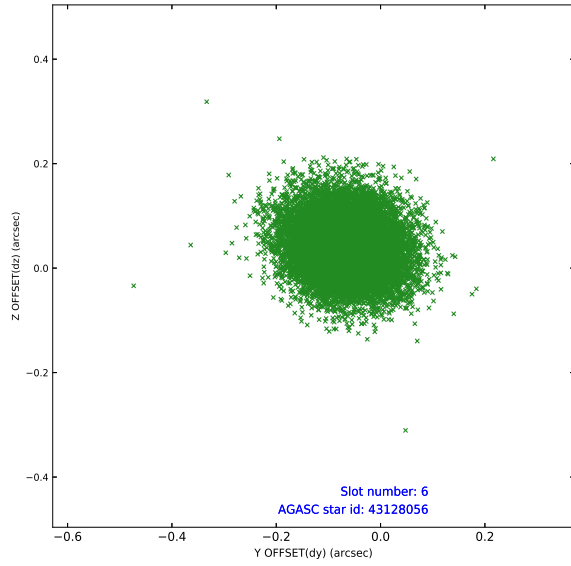
2.4.3 Slot 5



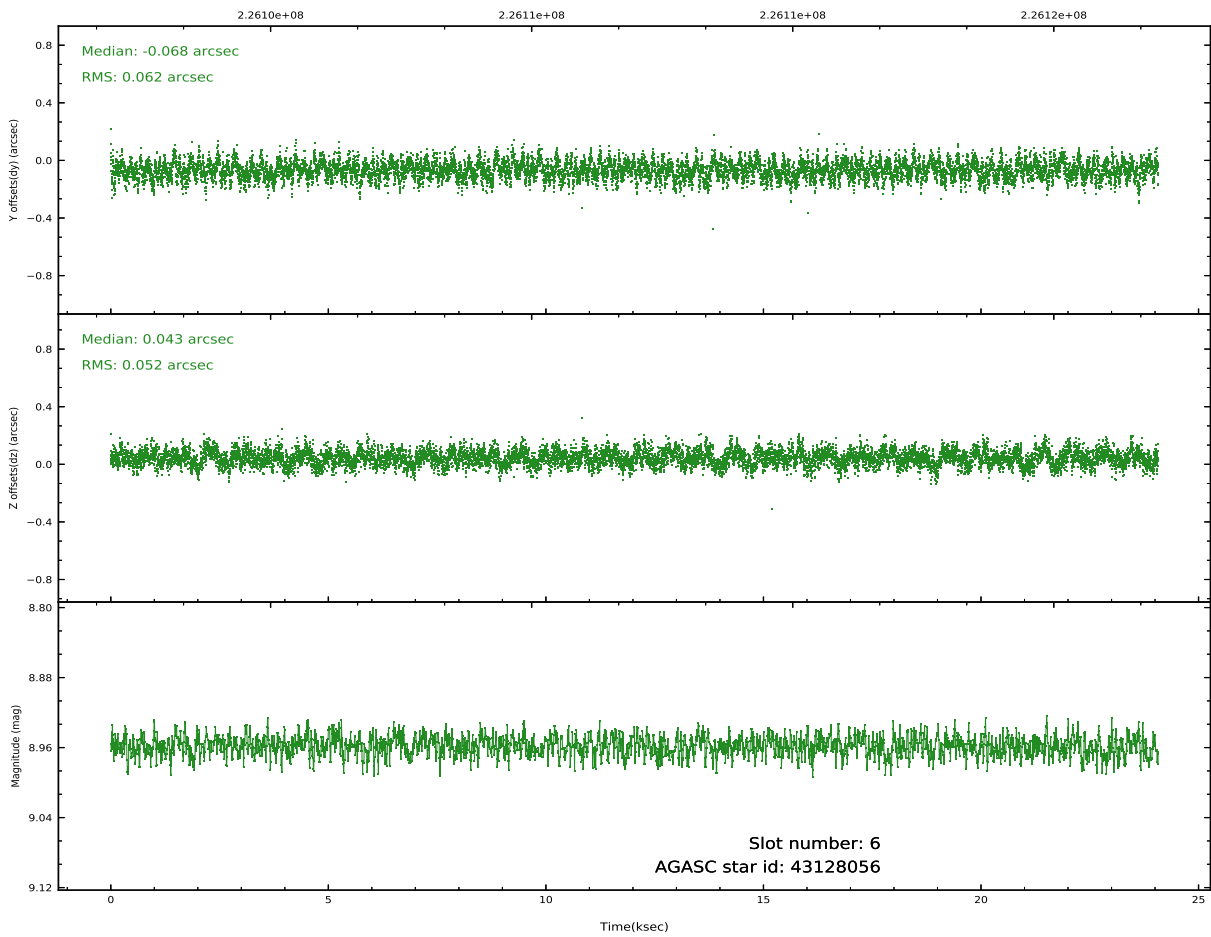
Time (s)



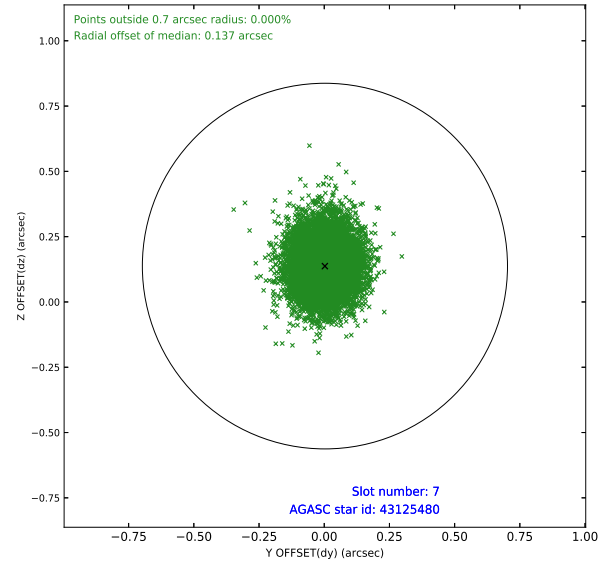
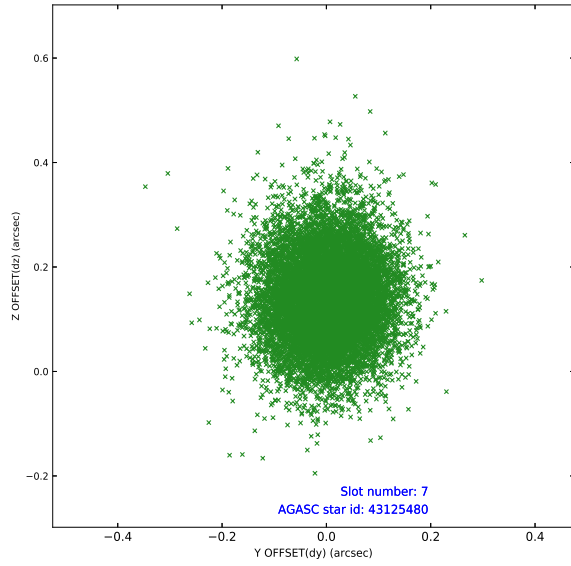
2.4.4 Slot 6



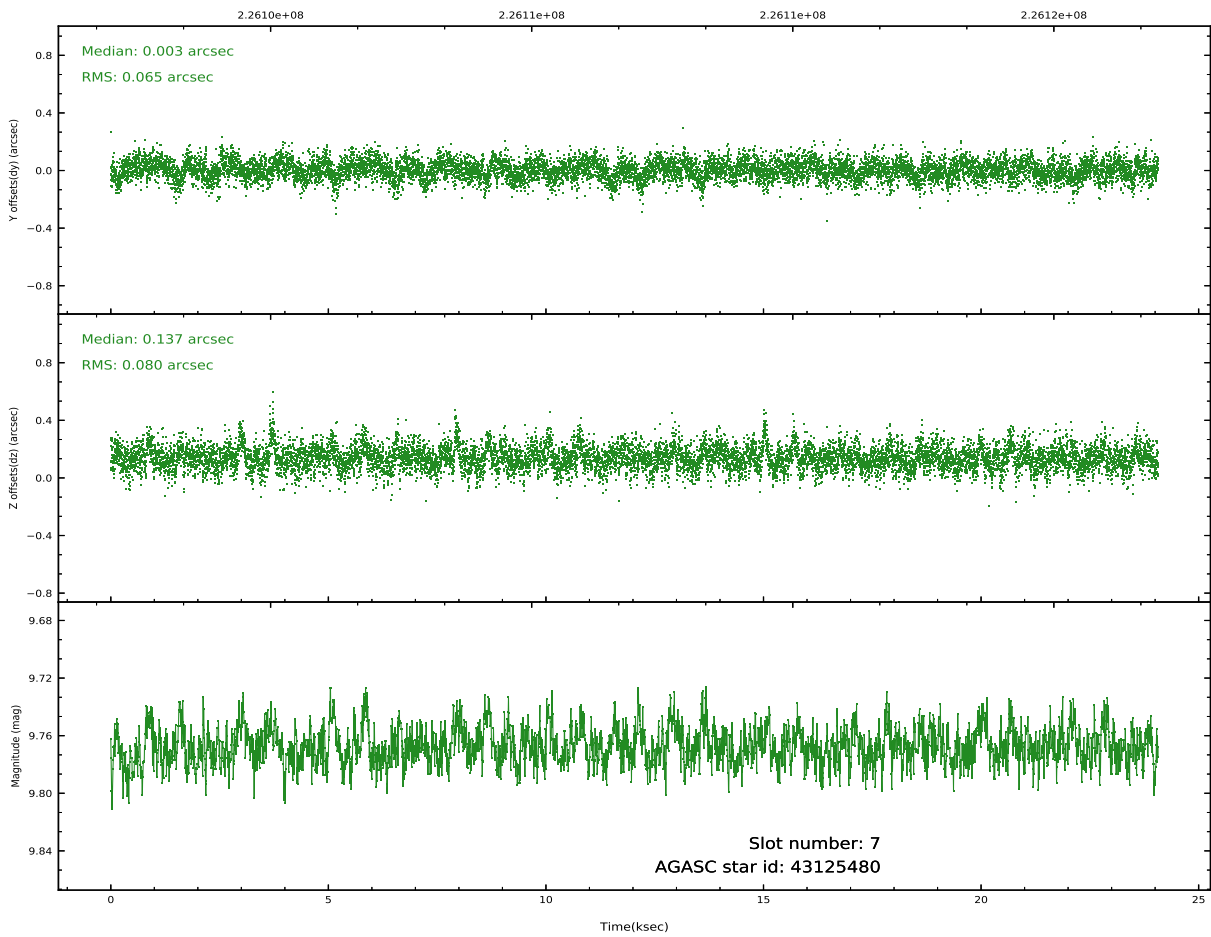
Time (s)



2.4.5 Slot 7

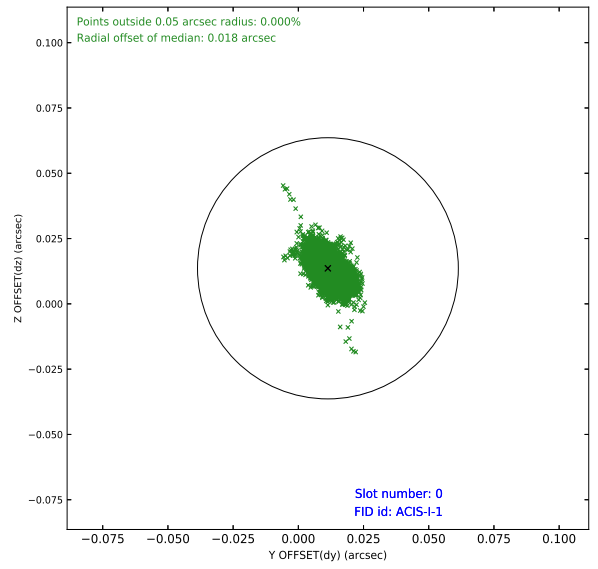
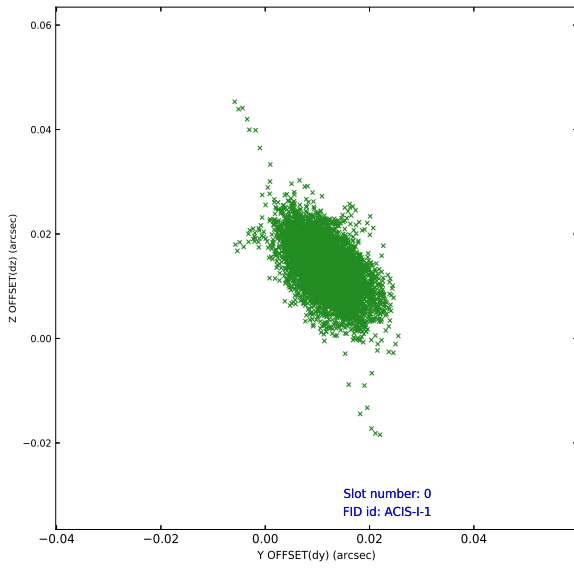


Time (s)

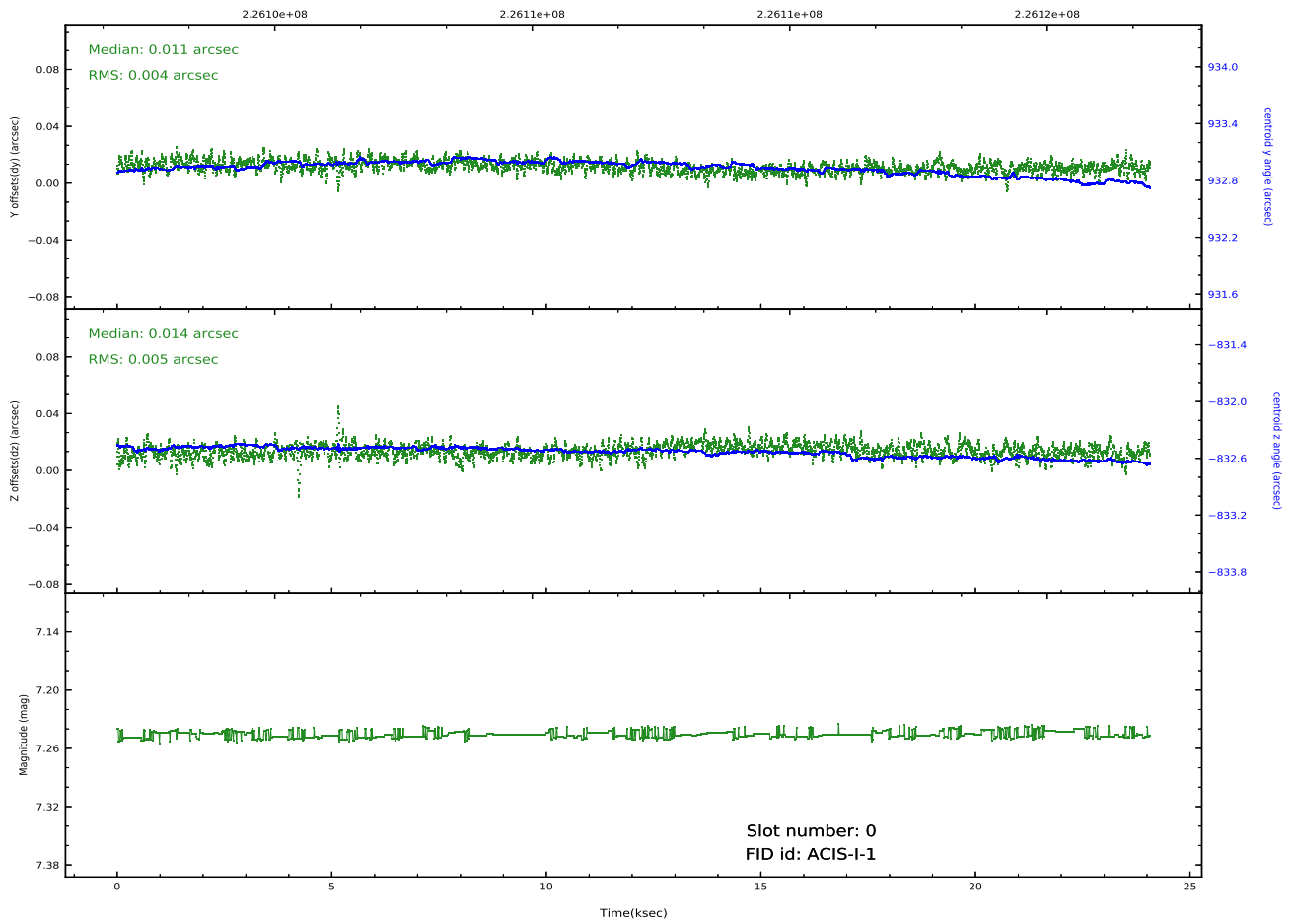


2.5 FID Slots

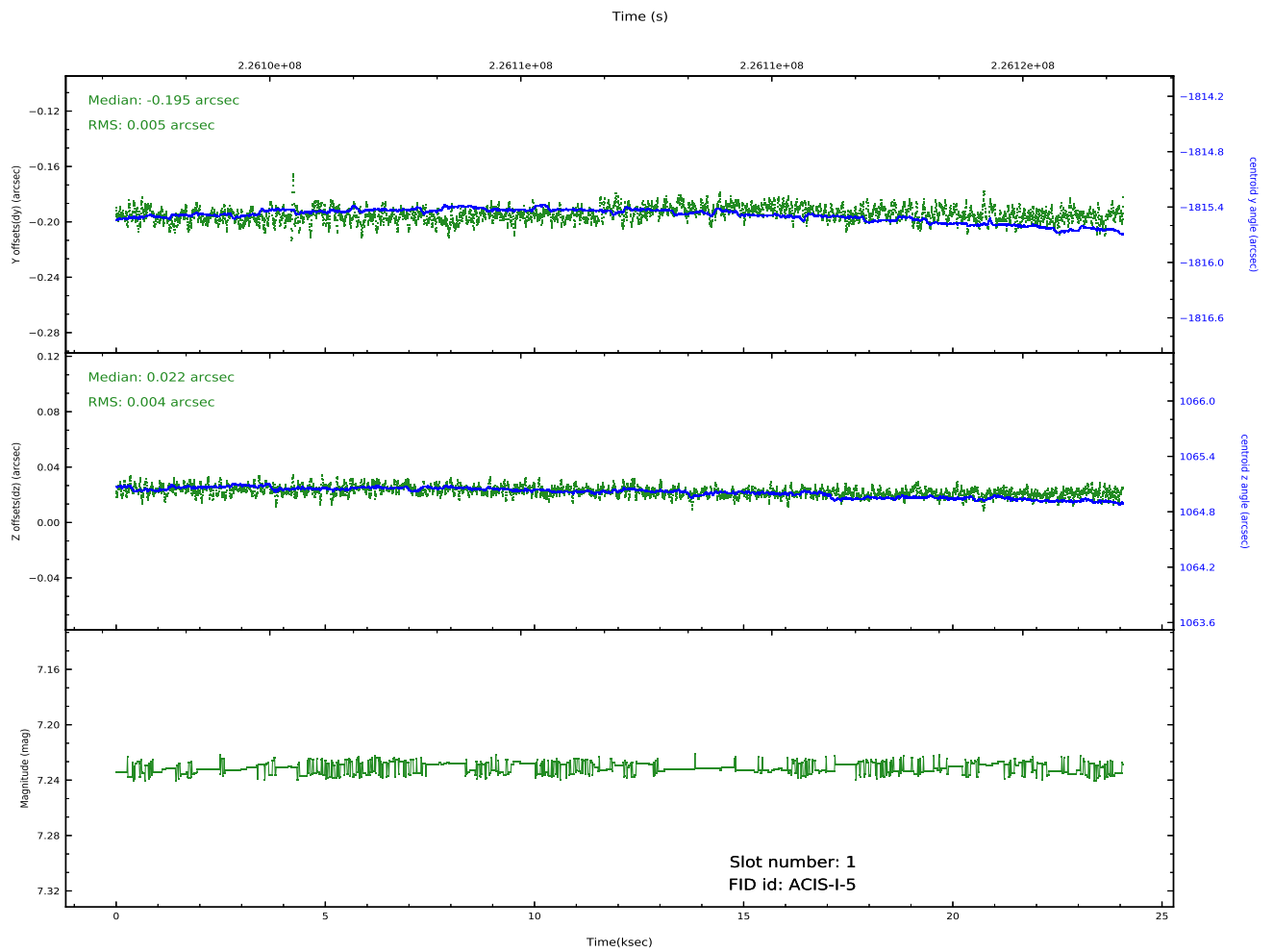
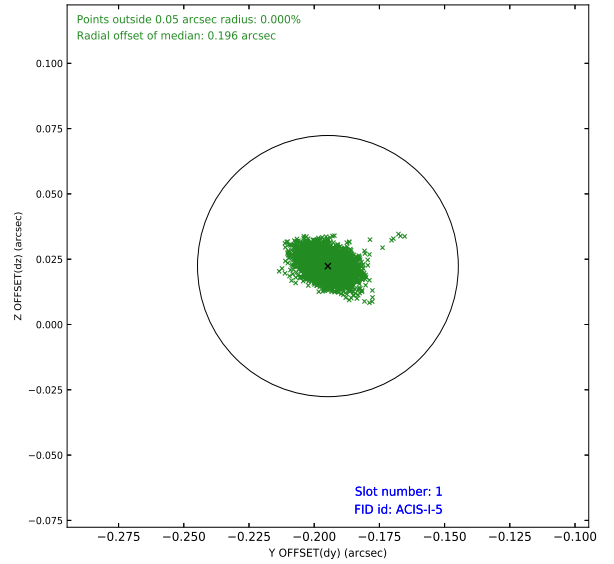
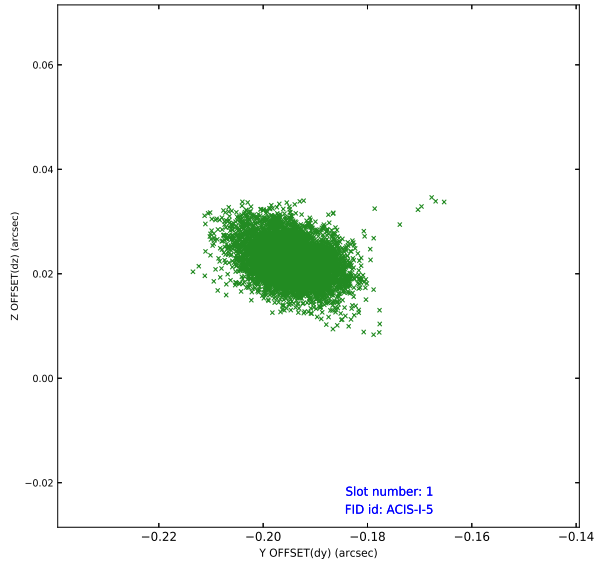
2.5.1 Slot 0



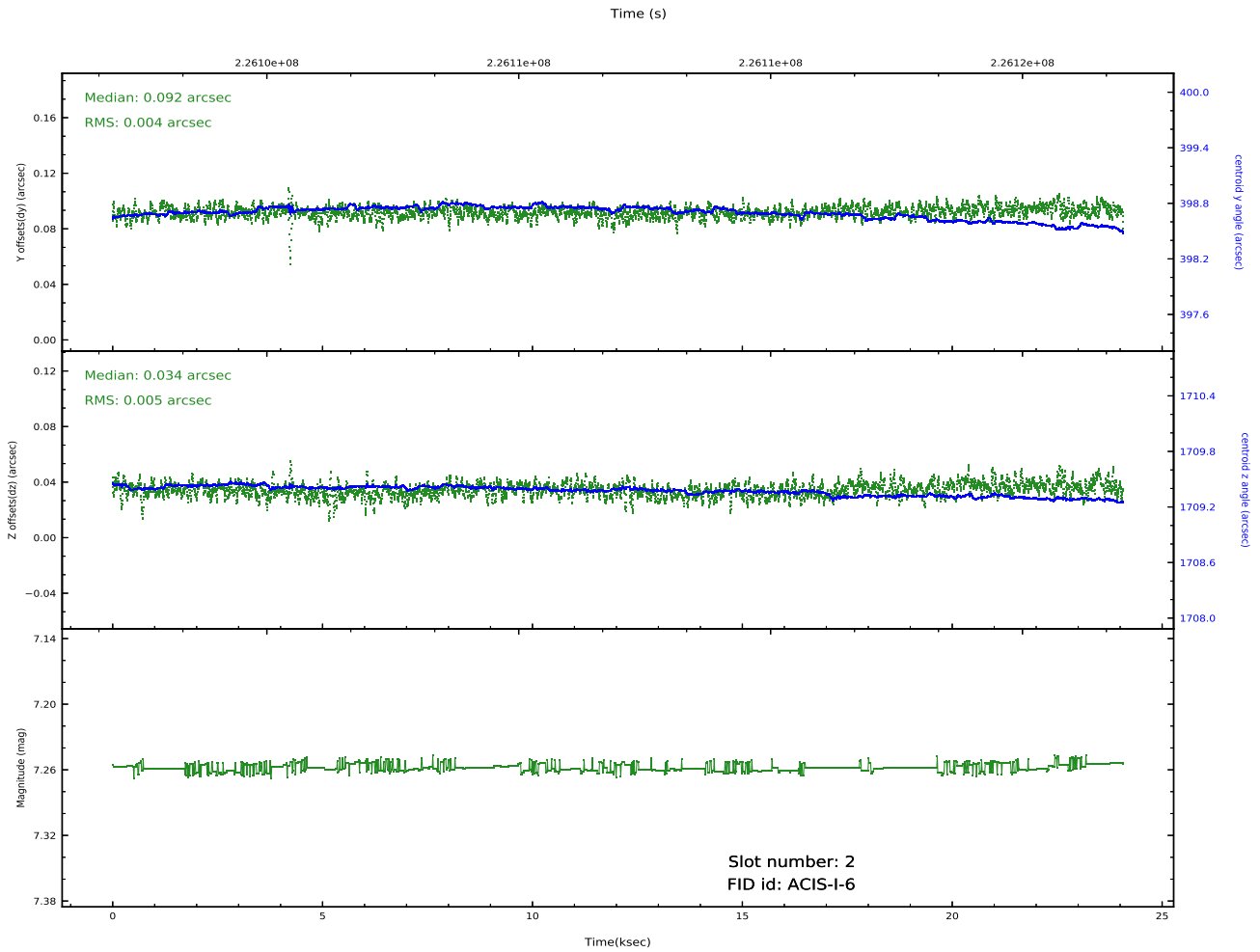
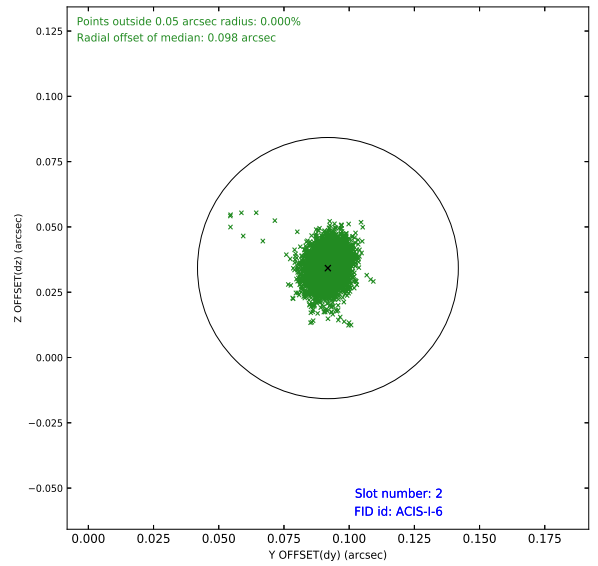
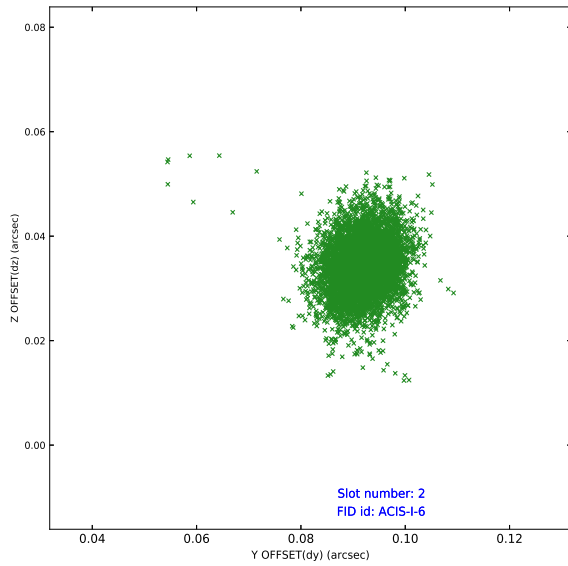
Time (s)



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2020.10.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	23.44831

A.2 Comments