

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 4980 - L2 Version 4
Chandra X-Ray Center

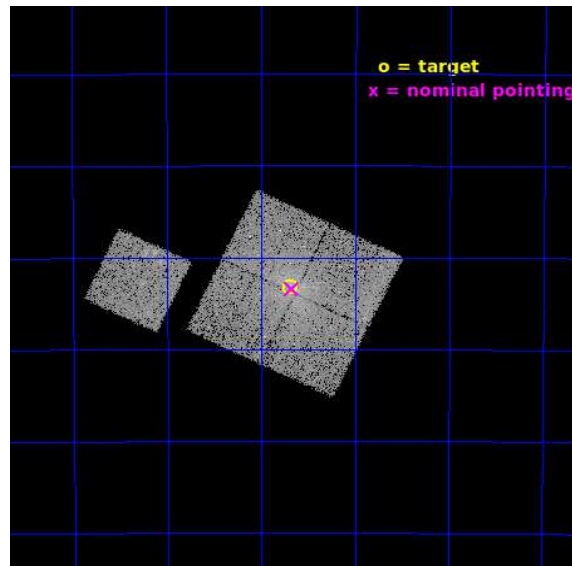
L2 Processing Date : Oct 6 2020

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1 Front

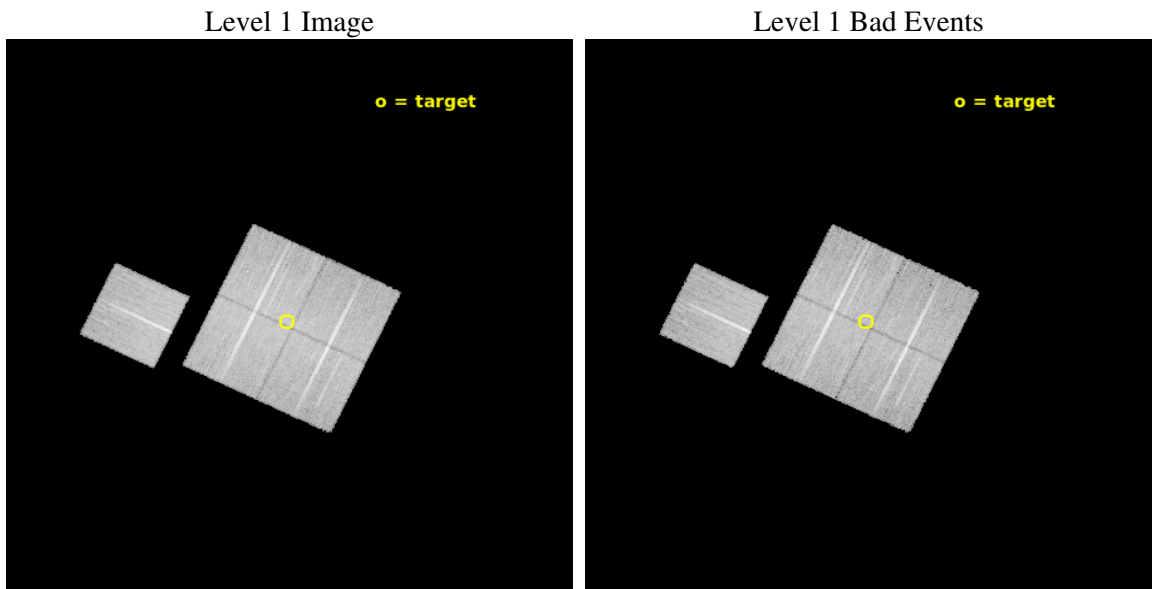
seq_num	800425	Sequence number
obs_id	4980	Observation id
title	Chandra Observations of DLS Shear-Selected Clusters	Proposal title
observer	John P. Hughes	Principal investigator
object	LCS-CL J051439-4903.4	Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	78.673667	Observer's specified target RA [deg]
dec_targ	-49.0525	Observer's specified target Dec [deg]
ra_nom	78.668747877186	Nominal RA [deg]
dec_nom	-49.056790768855	Nominal Dec [deg]
roll_nom	295.67476031736	Nominal Roll [deg]
revision	4	Processing version of data
ontime	20140.577020556	Sum of GTIs [s]
livetime	19877.425554505	Livetime [s]
ontime0	20146.858980983	Sum of GTIs [s]
ontime1	20149.999961227	Sum of GTIs [s]
ontime2	20149.999961227	Sum of GTIs [s]
ontime3	20140.577020556	Sum of GTIs [s]
ontime6	20146.858990997	Sum of GTIs [s]
l2events	60943	Number of level 2 events



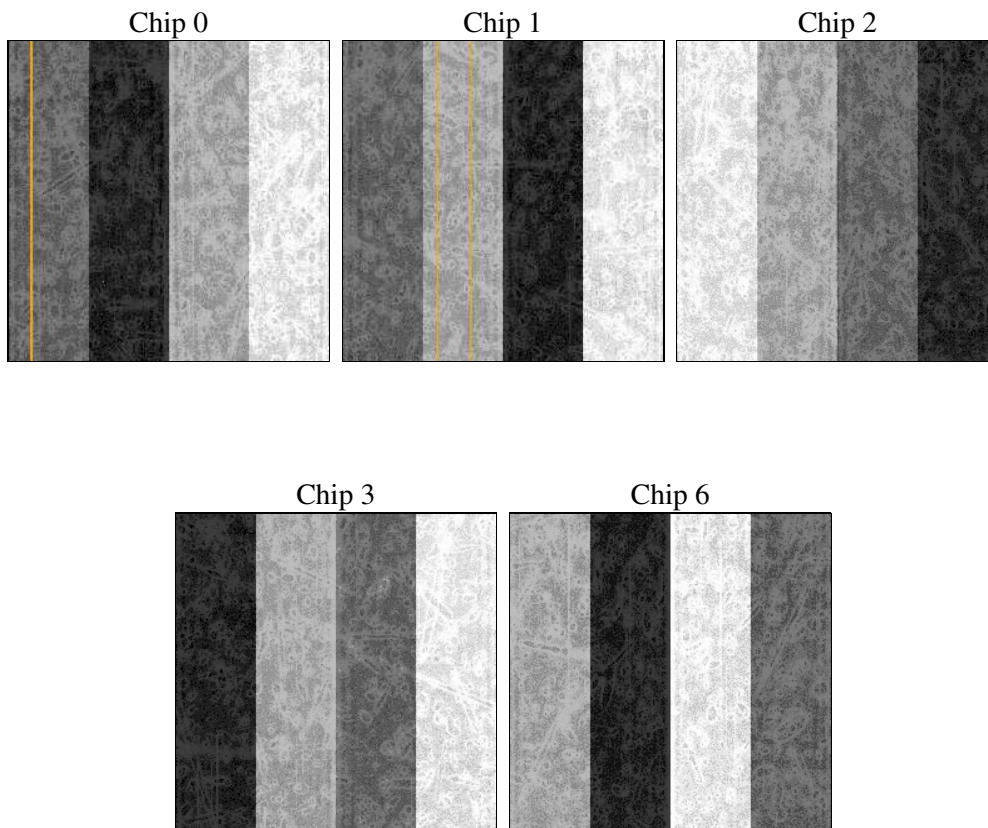
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	20000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	20140.577020556	Sum of GTIs [s]
caldbver	4.9.2	 	ontime0	20146.858980983	Sum of GTIs [s]
date	2020-10-06T16:56:01	Date and time of file creation	ontime1	20149.999961227	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	20149.999961227	Sum of GTIs [s]
			ontime3	20140.577020556	Sum of GTIs [s]
			ontime6	20146.858990997	Sum of GTIs [s]
			l1events	609781	Number of level 1 events

2.1.4 Events

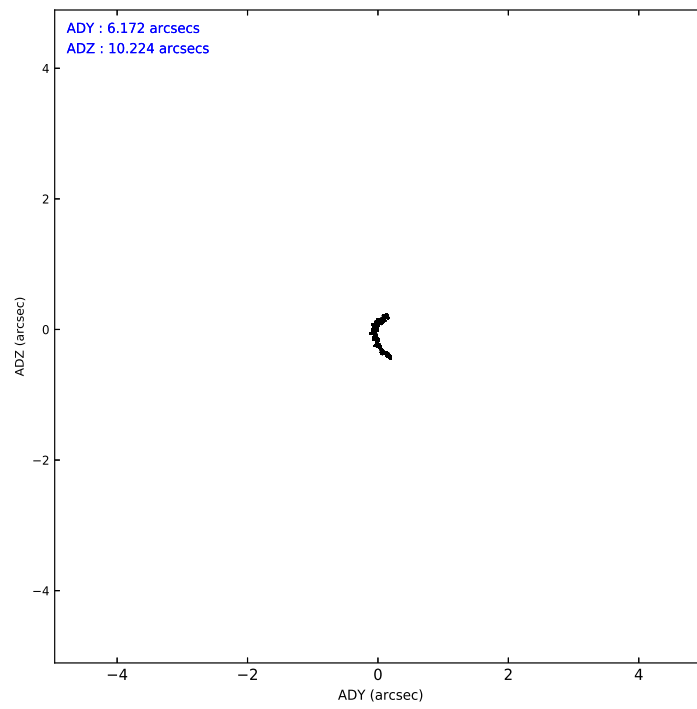
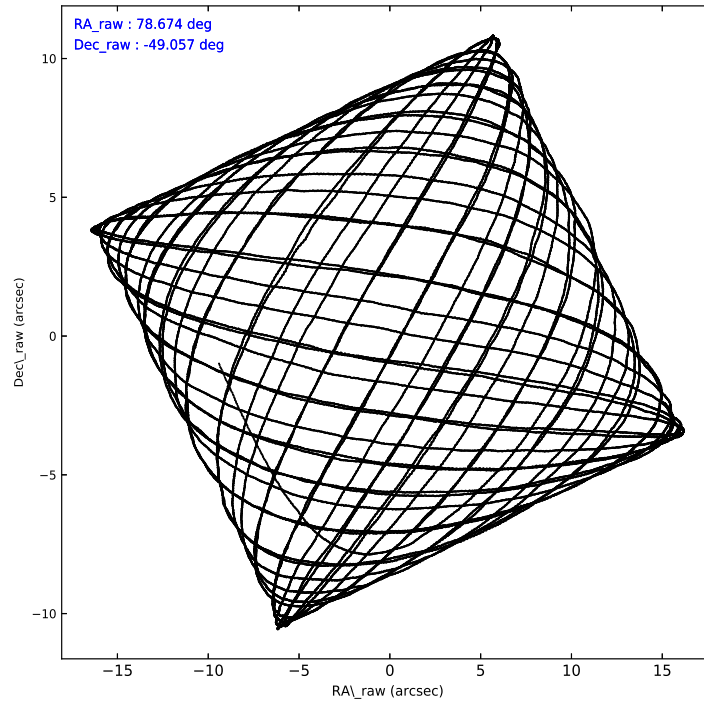
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	116736	112163	132425	126679	121778
rejected events	102223	96460	118094	111685	109182
rejected %	87%	85%	89%	88%	89%

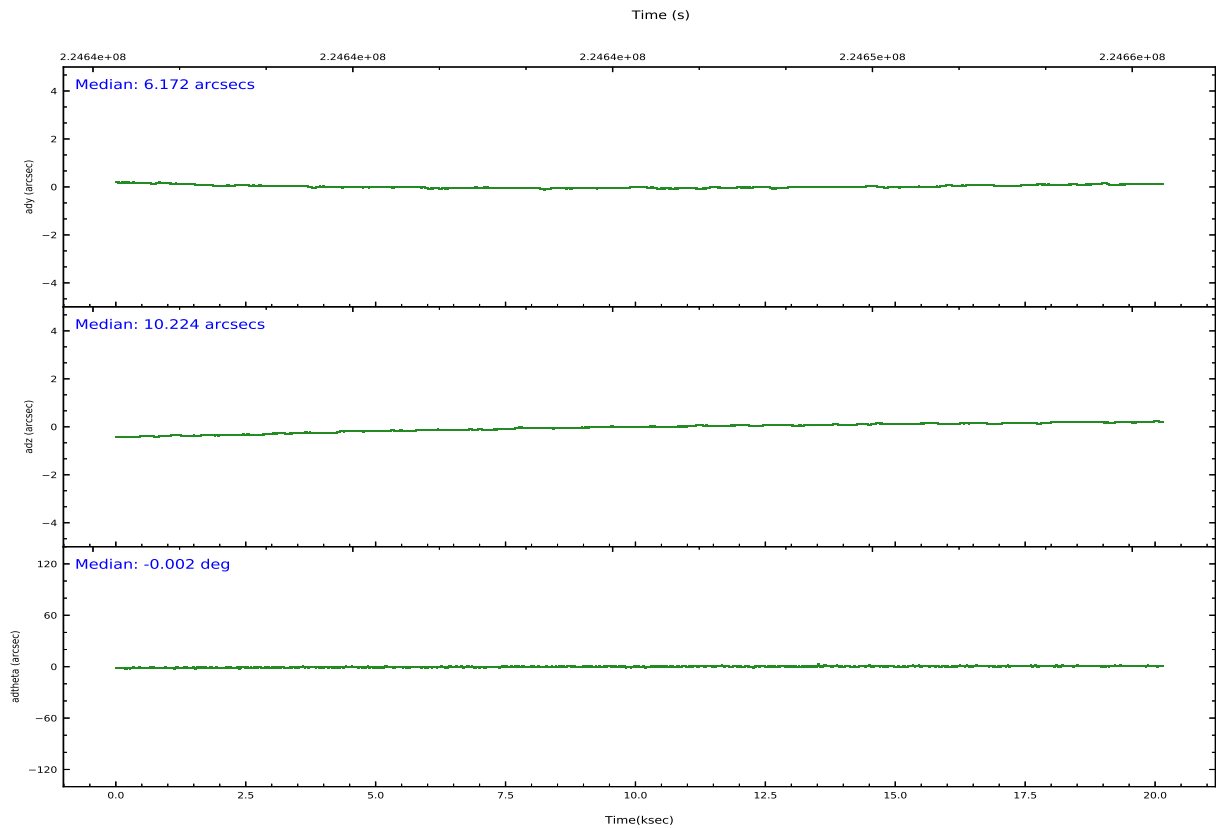
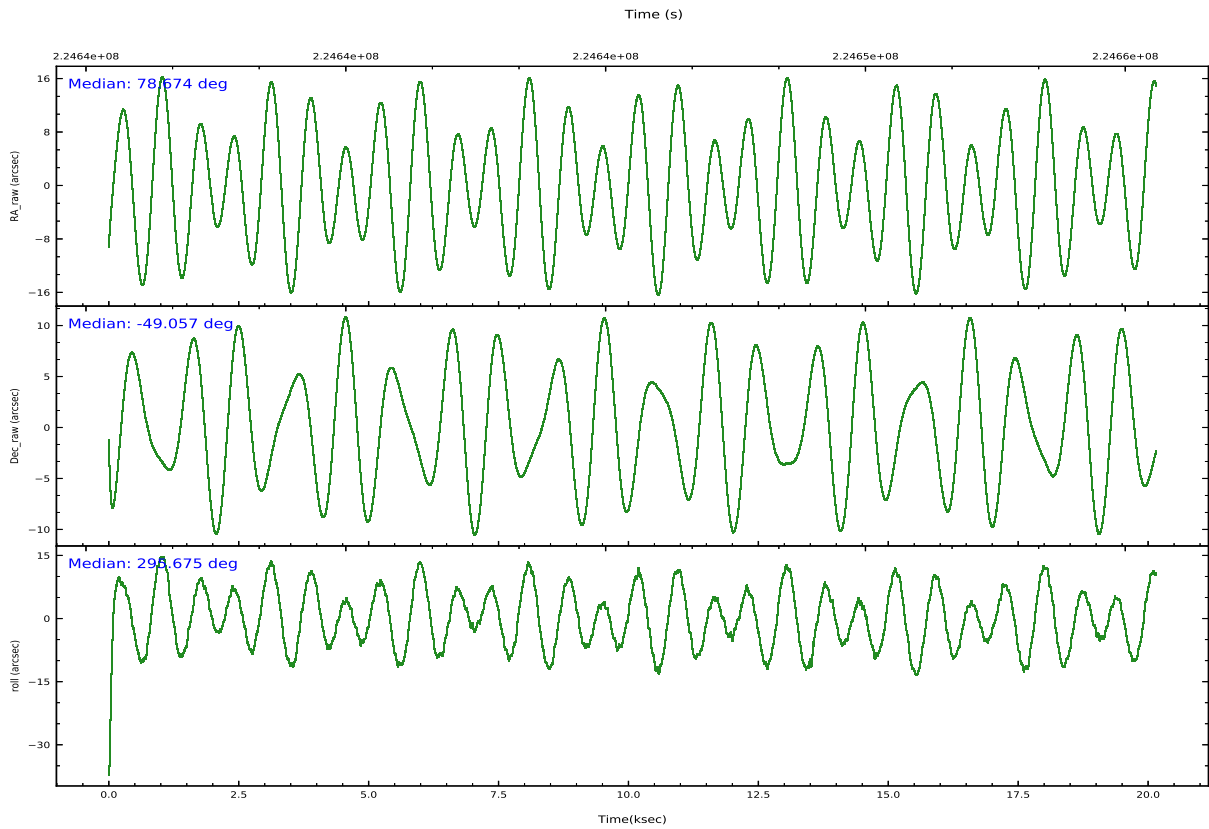
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	5967	6721	6209	7024	4607
	5%	5%	4%	5%	3%
grade 1 events	70	76	80	73	55
	0%	0%	0%	0%	0%
grade 2 events	3178	3159	3092	2822	2751
	2%	2%	2%	2%	2%
grade 3 events	1540	1631	1349	1385	1350
	1%	1%	1%	1%	1%
grade 4 events	1407	1497	1362	1439	1339
	1%	1%	1%	1%	1%
grade 5 events	4393	4674	4131	4978	4800
	3%	4%	3%	3%	3%
grade 6 events	2424	2696	2320	2327	2554
	2%	2%	1%	1%	2%
grade 7 events	97757	91709	113882	106631	104322
	83%	81%	85%	84%	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	78.639405	78.66874787718599	Subarray requested	NONE	NONE
[deg] Pointing Dec	-49.041771	-49.056790768855	Alternating exposures requested	N	N
[deg] Pointing Roll	295.441349	295.67476031736	[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)	224635595.184000	224634616.592			
Observation start date	2005-02-12T22:45:31	2005-02-12T22:30:16			
[s] Observation end time (MET)	224655595.184000	224656266.64298			
Observation end date	2005-02-13T04:18:51	2005-02-13T04:31:06			
Read mode	TIMED	TIMED			

2.3 Aspect





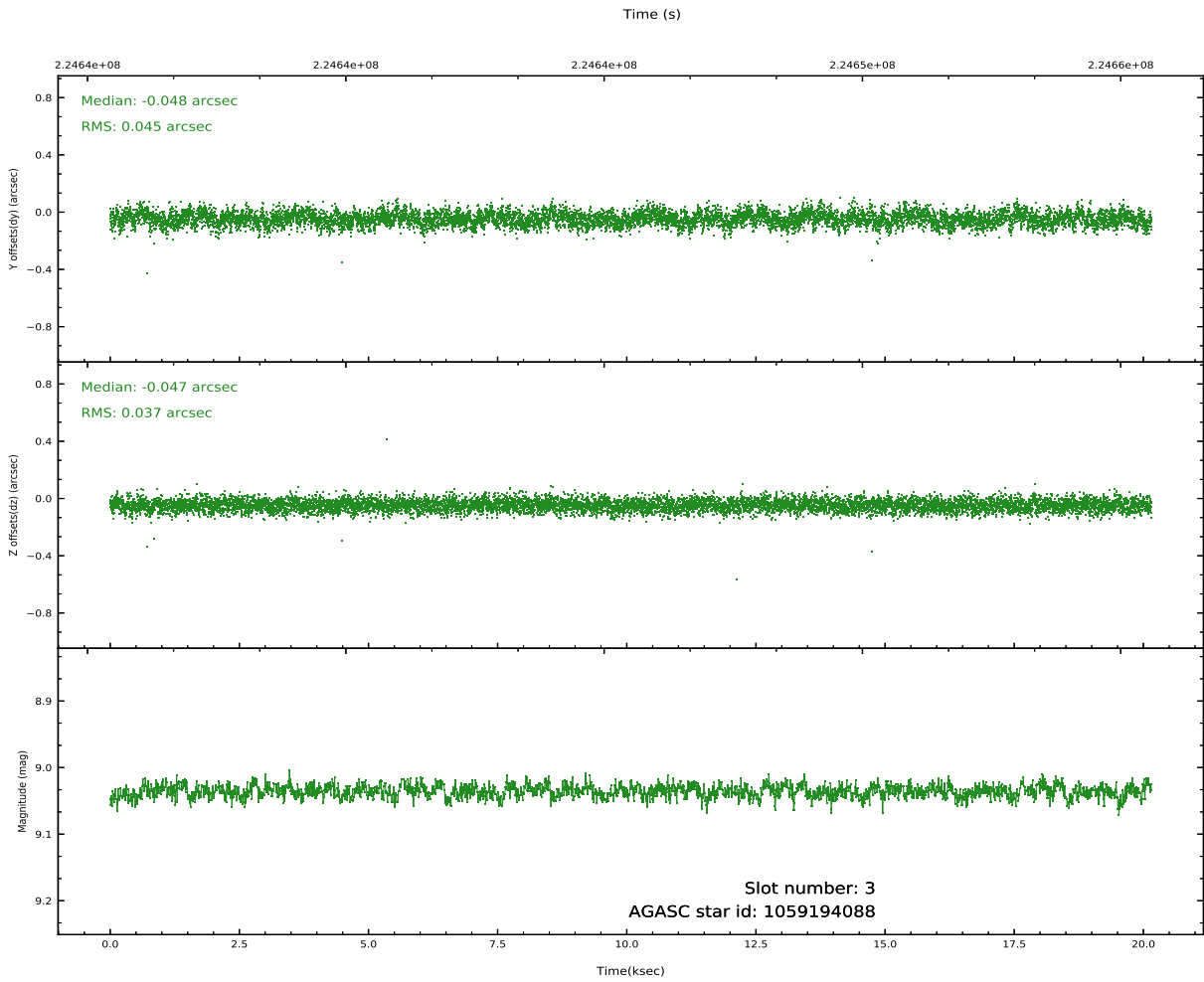
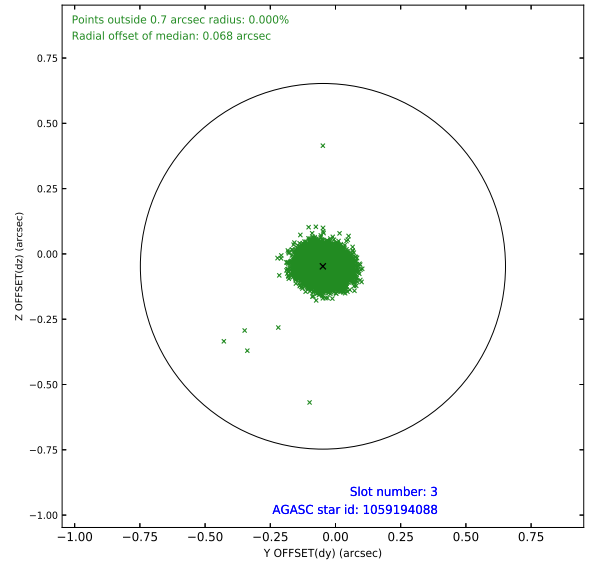
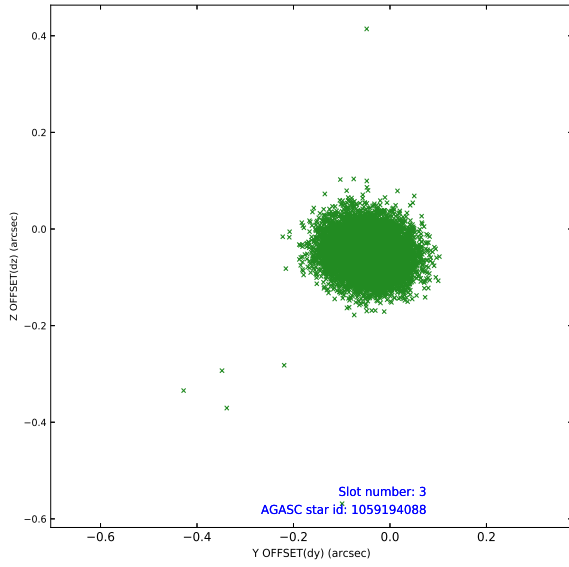
Slot Statistics

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	7.24	4916	1.000	0.023	-0.019	0.011	0.021	0.000000	0.000000	933.54	-833
1	FID		ACIS-I-5	7.23	4916	1.000	-0.202	0.026	0.007	0.011	0.000000	0.000000	-1814.70	1063
2	FID		ACIS-I-6	7.26	4916	1.000	0.088	0.062	0.010	0.016	0.000000	0.000000	398.94	1708
3	GUIDE	used	1059194088	9.04	9827	1.000	-0.048	-0.047	0.062	0.100	78.349042	-48.493725	-2077.99	221
4	GUIDE	used	1059207240	8.31	9831	1.000	0.052	-0.123	0.073	0.116	78.013724	-49.060243	-568.46	-1363
5	GUIDE	used	1060244808	8.37	9833	1.000	0.013	0.122	0.057	0.091	78.979100	-48.690695	-792.43	1270
6	GUIDE	used	1060247984	8.12	9831	1.000	-0.016	0.094	0.061	0.095	79.200991	-48.640794	-725.08	1824
7	GUIDE	used	1060771728	7.69	9832	1.000	0.001	-0.039	0.050	0.081	79.196689	-49.599626	2376.56	309

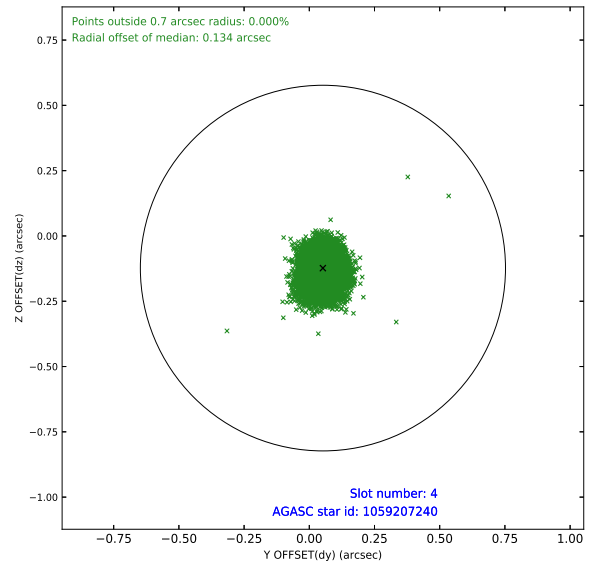
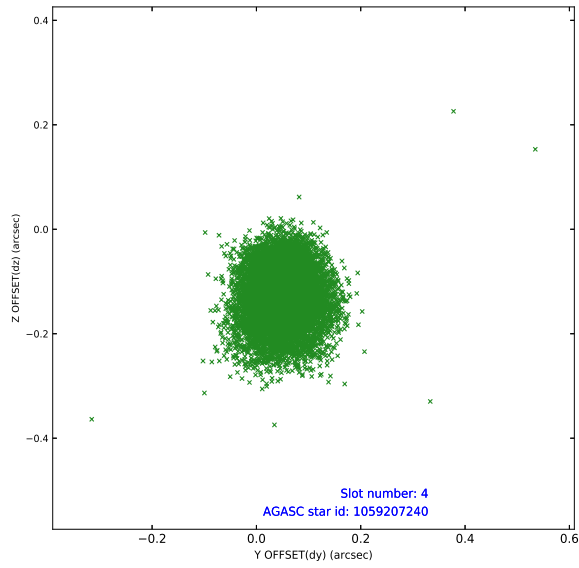
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2.4 Star Slots

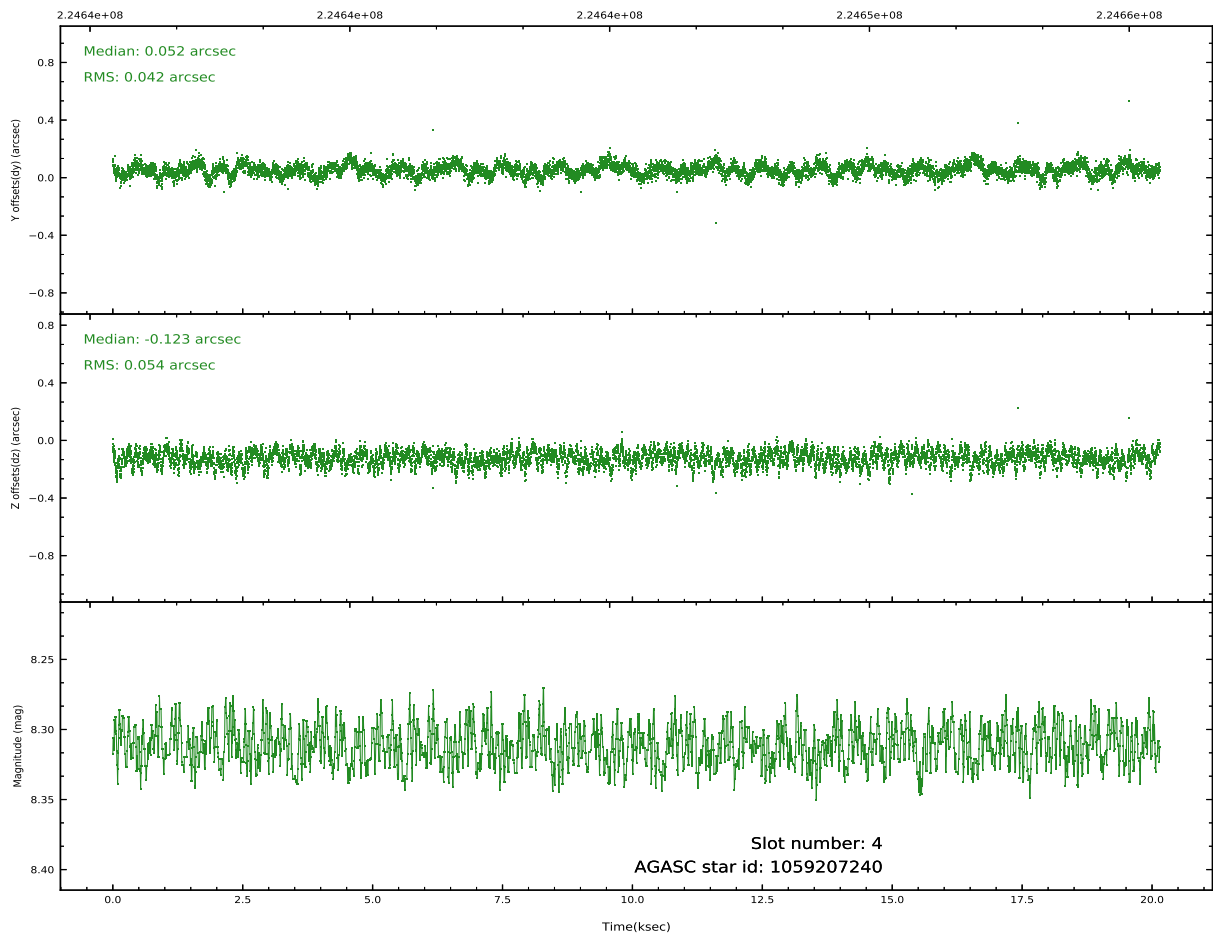
2.4.1 Slot 3



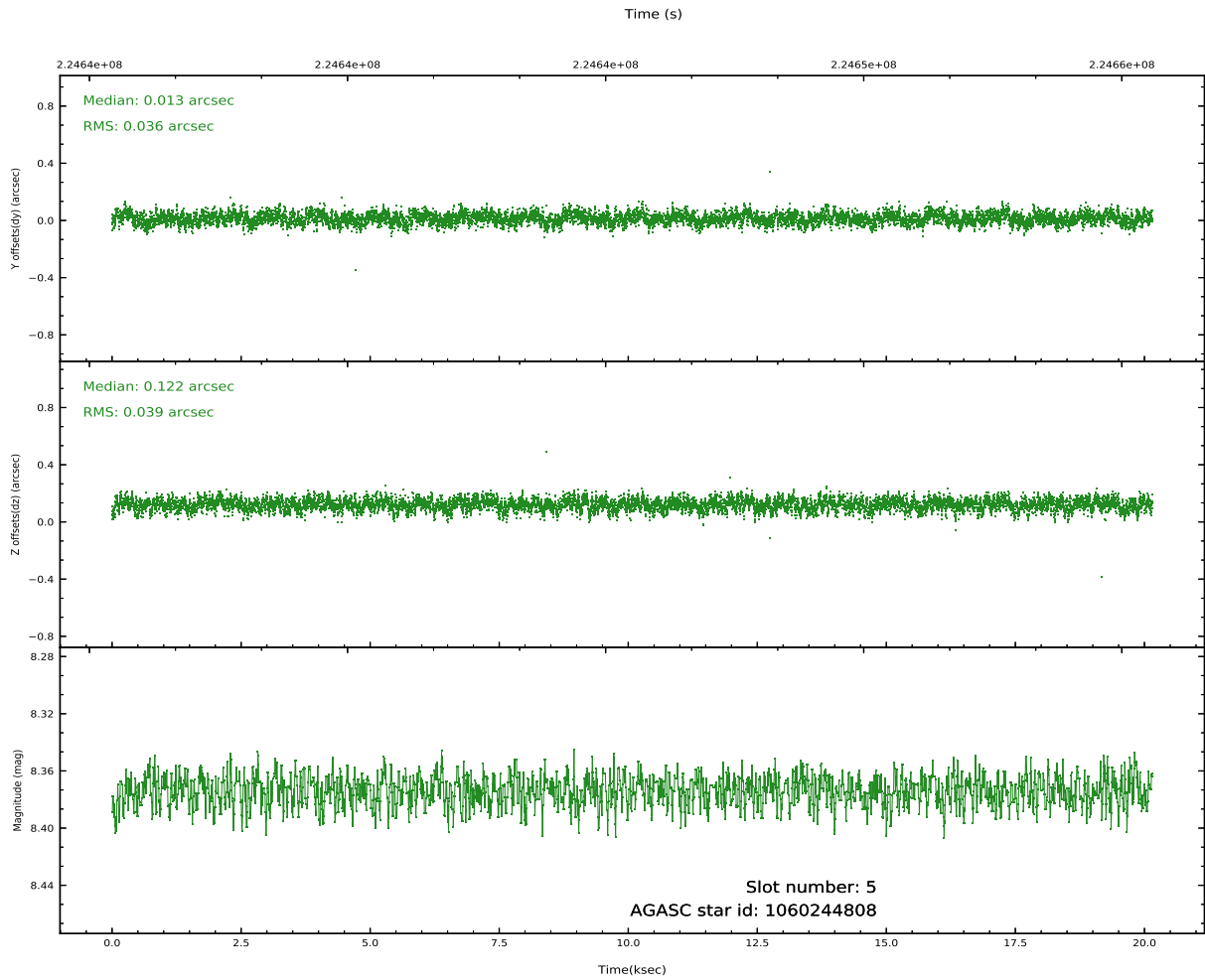
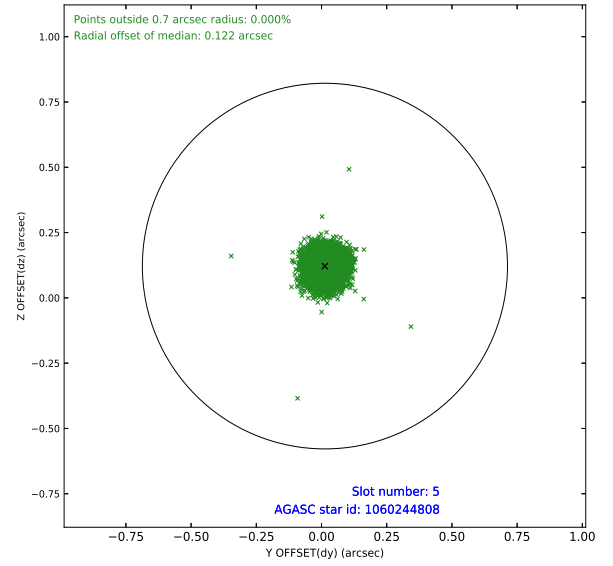
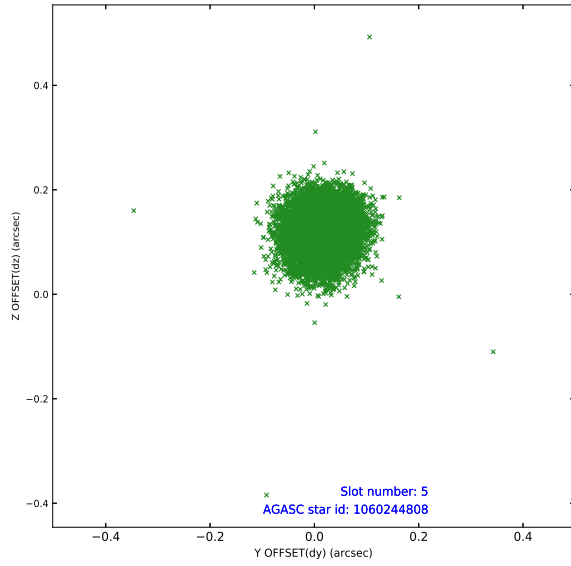
2.4.2 Slot 4



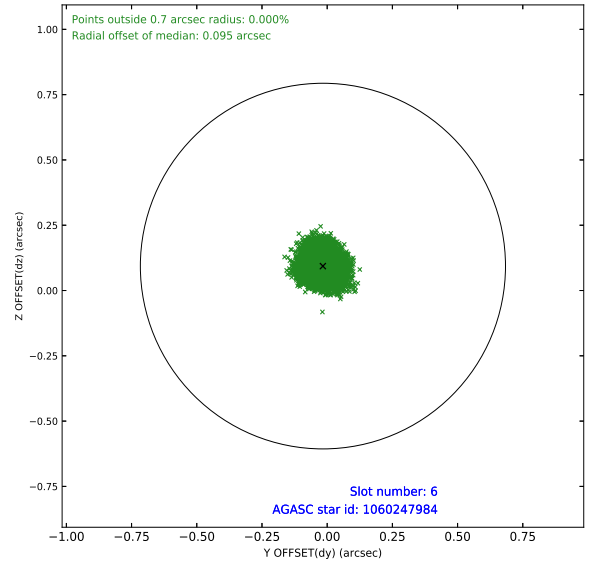
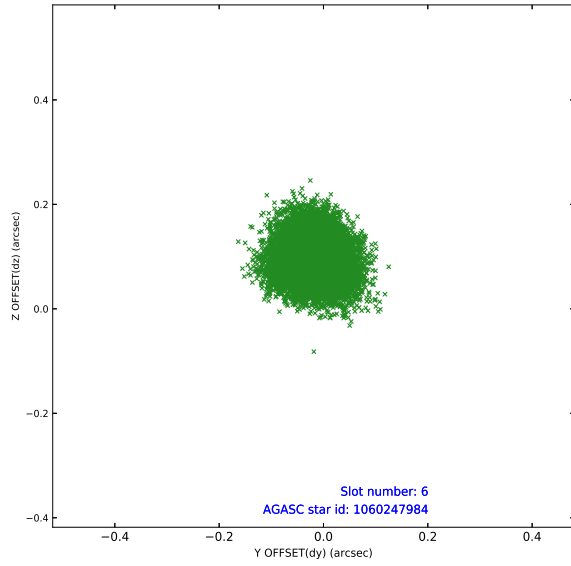
Time (s)



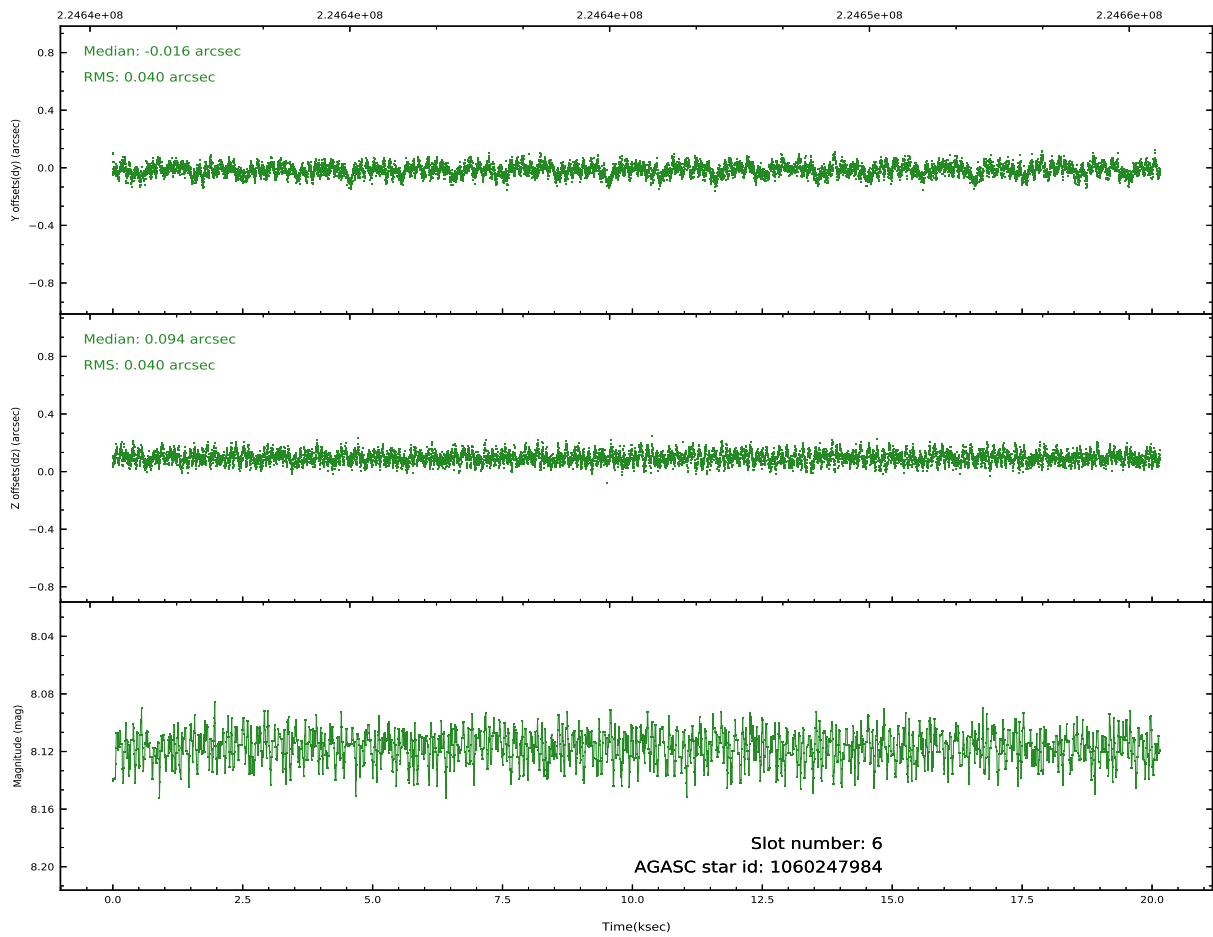
2.4.3 Slot 5



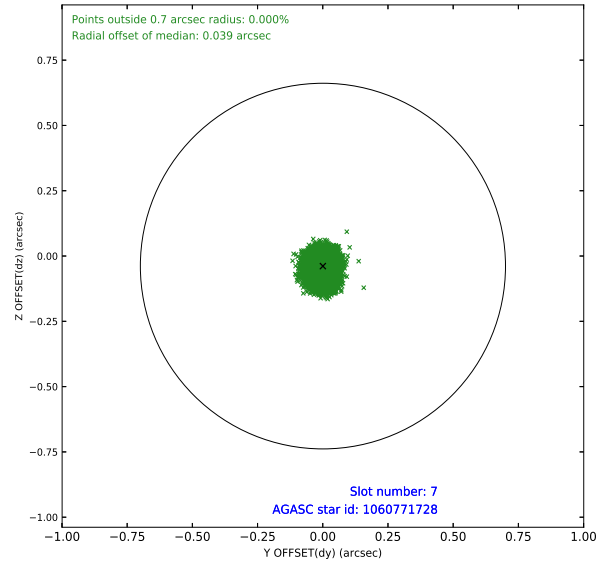
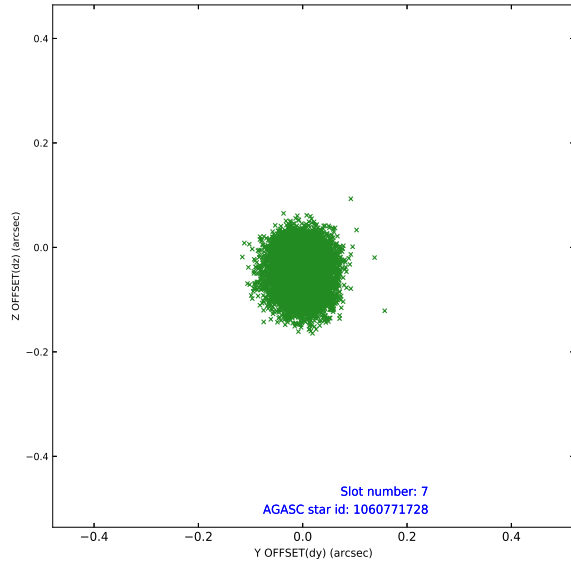
2.4.4 Slot 6



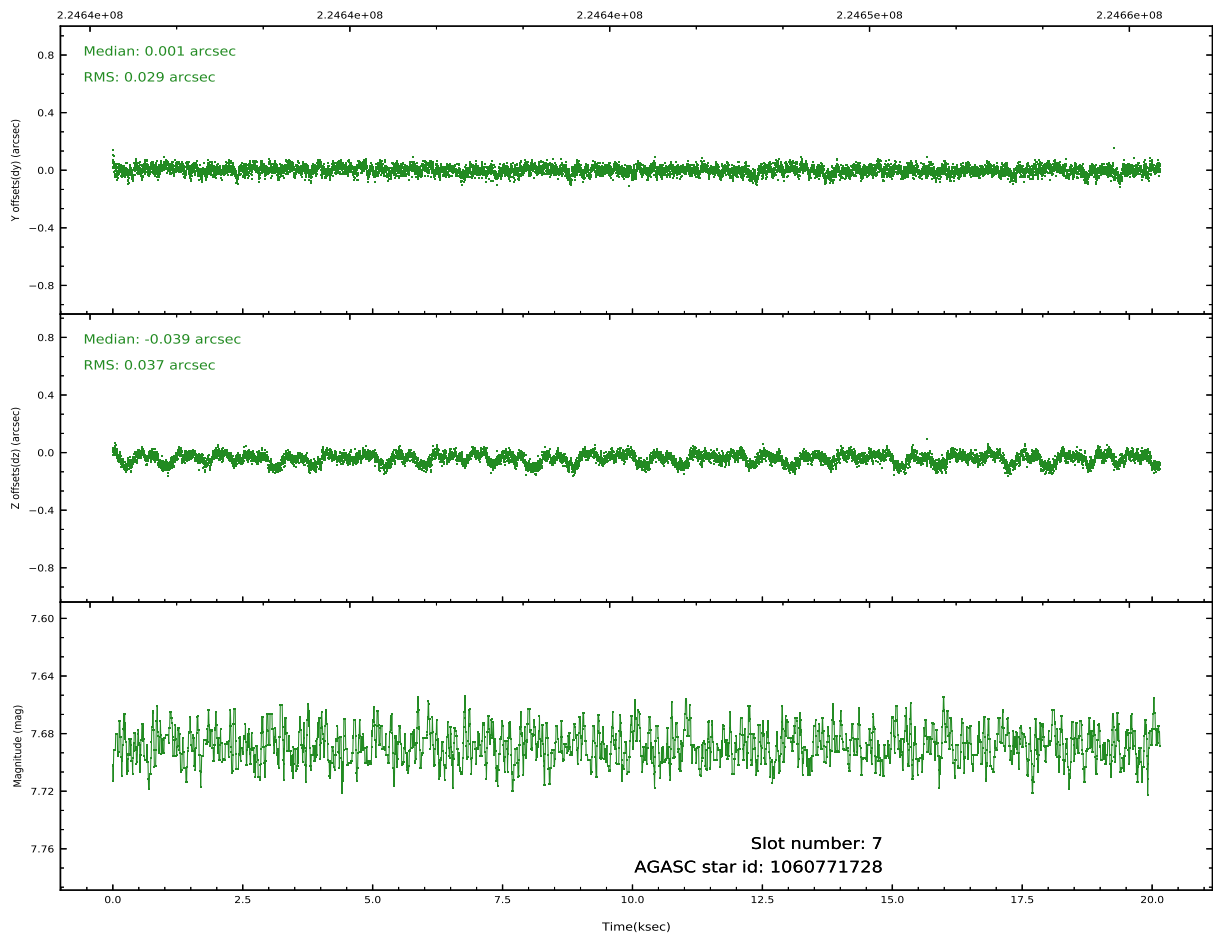
Time (s)



2.4.5 Slot 7

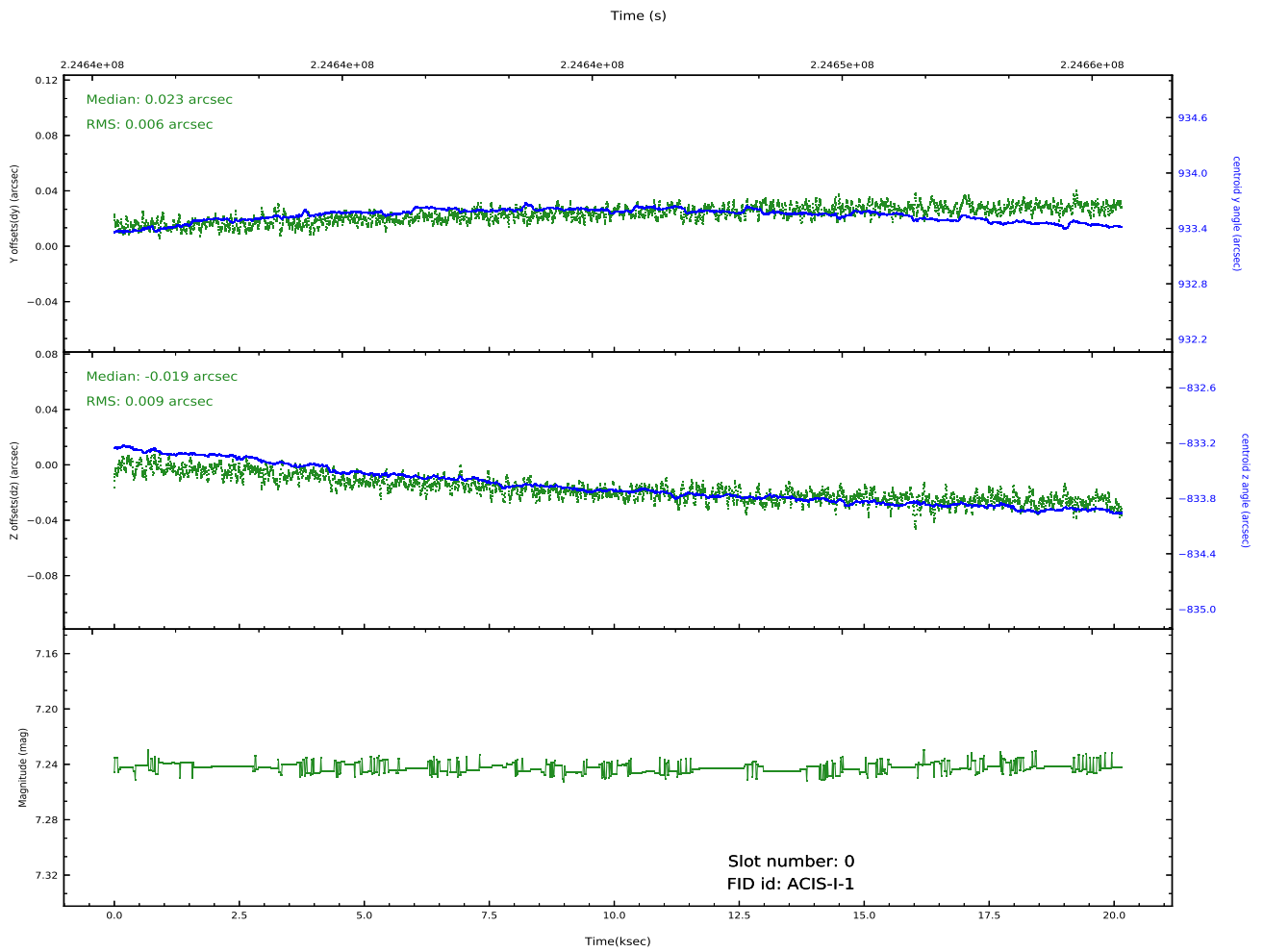
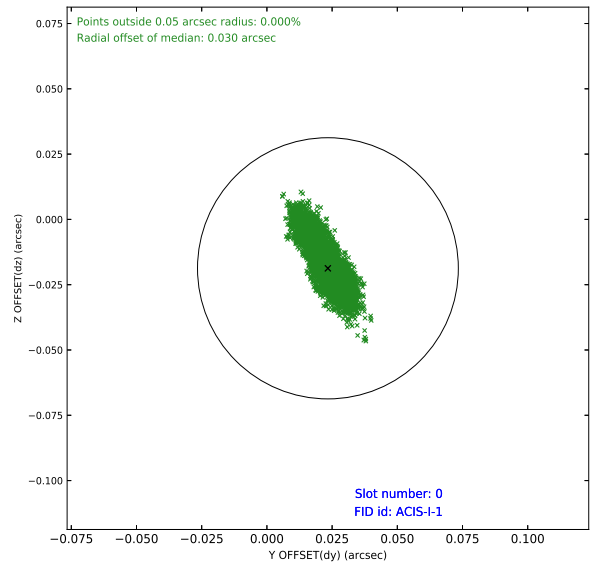
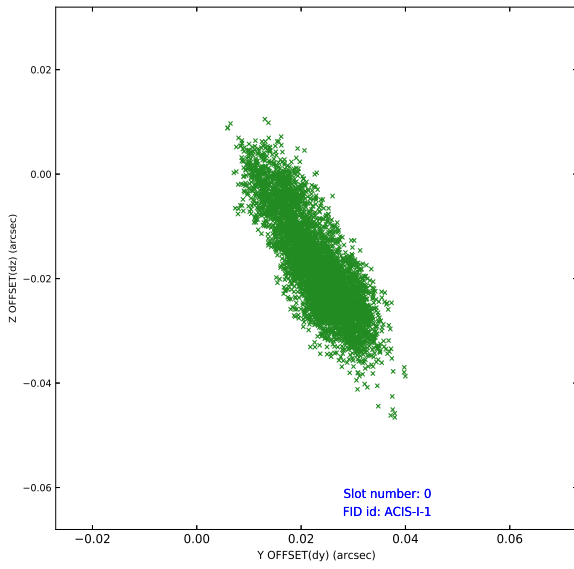


Time (s)

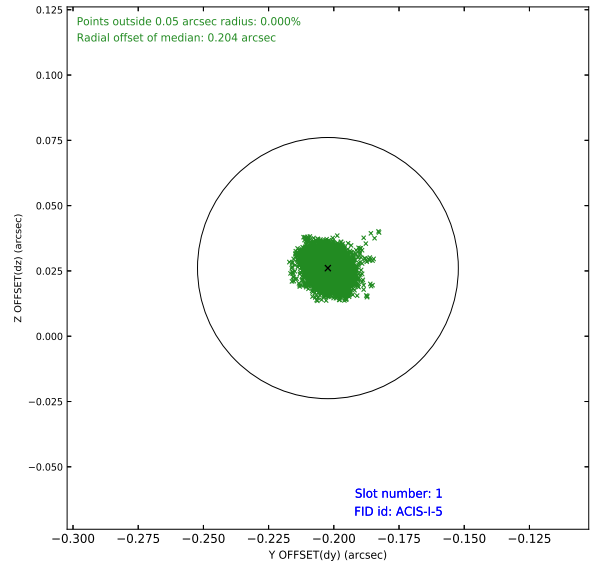
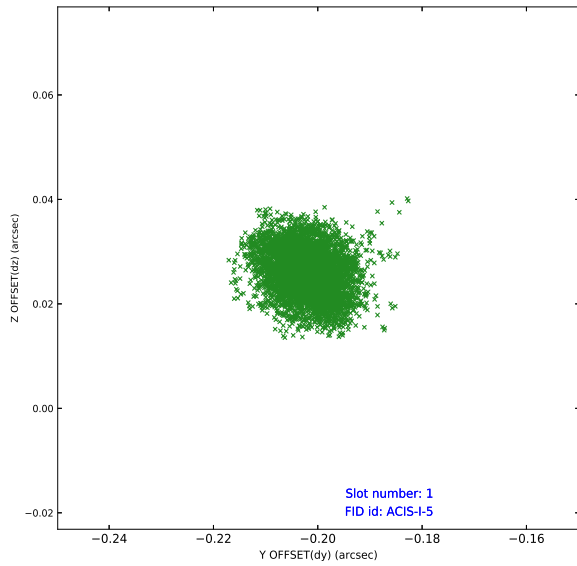


2.5 FID Slots

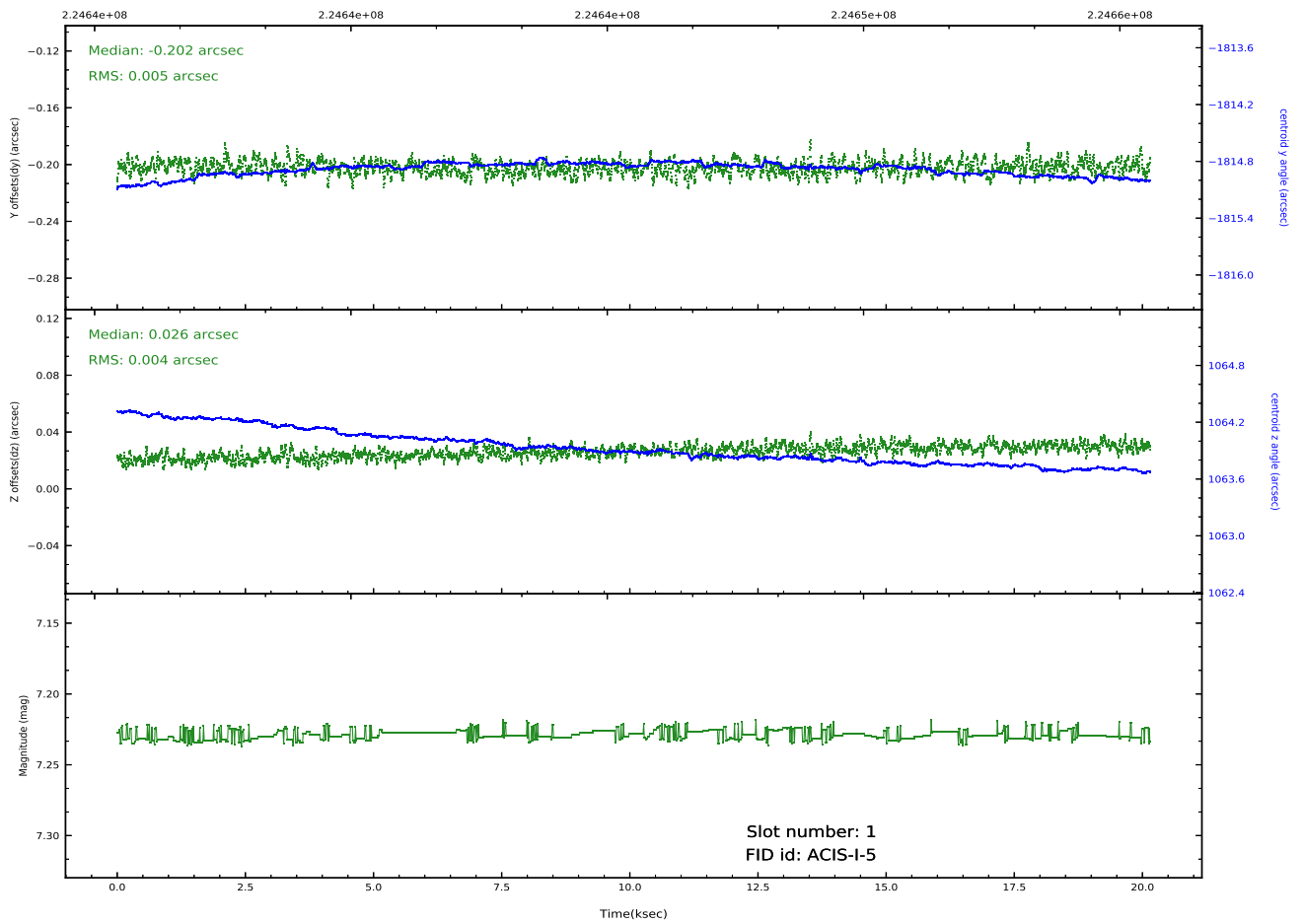
2.5.1 Slot 0



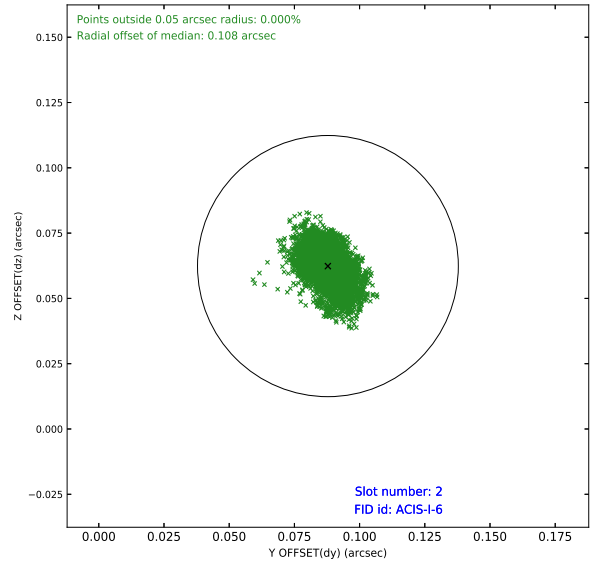
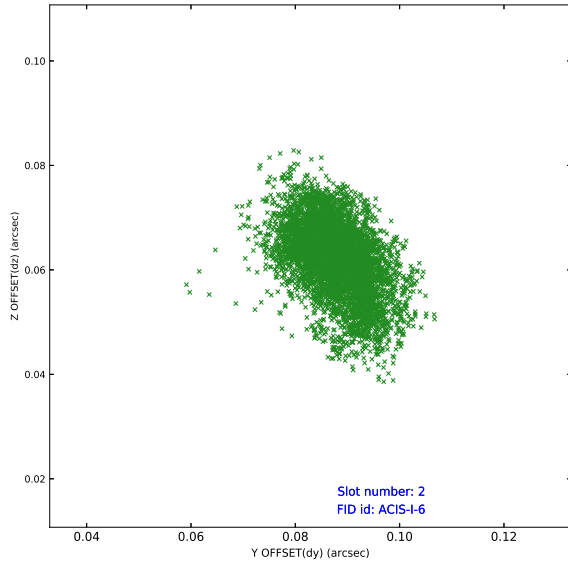
2.5.2 Slot 1



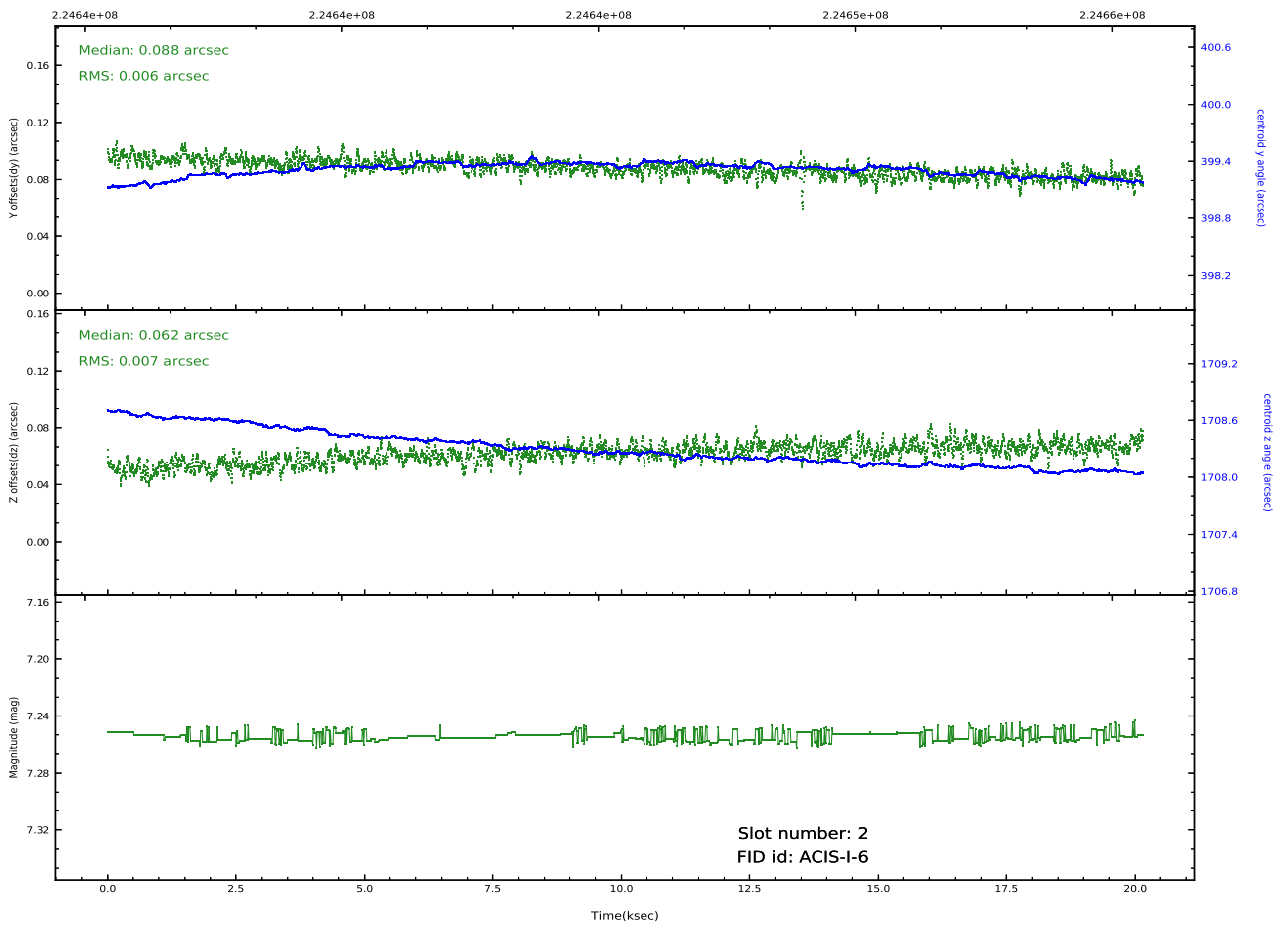
Time (s)



2.5.3 Slot 2



Time (s)



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2020.10.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.14057

A.2 Comments