

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5834 - L2 Version 4
Chandra X-Ray Center

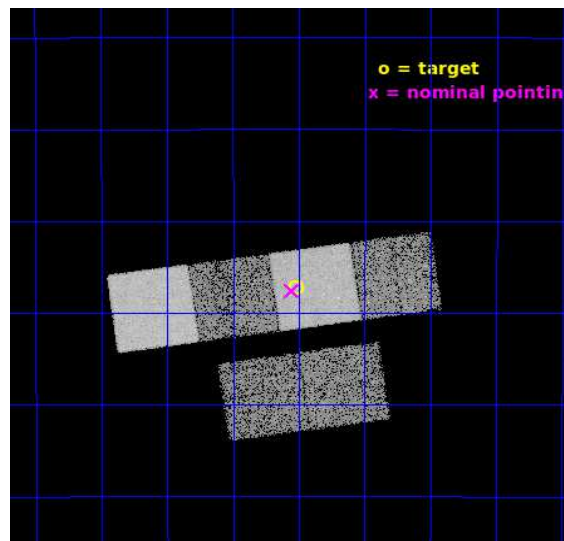
L2 Processing Date : Oct 5 2020

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1 Front

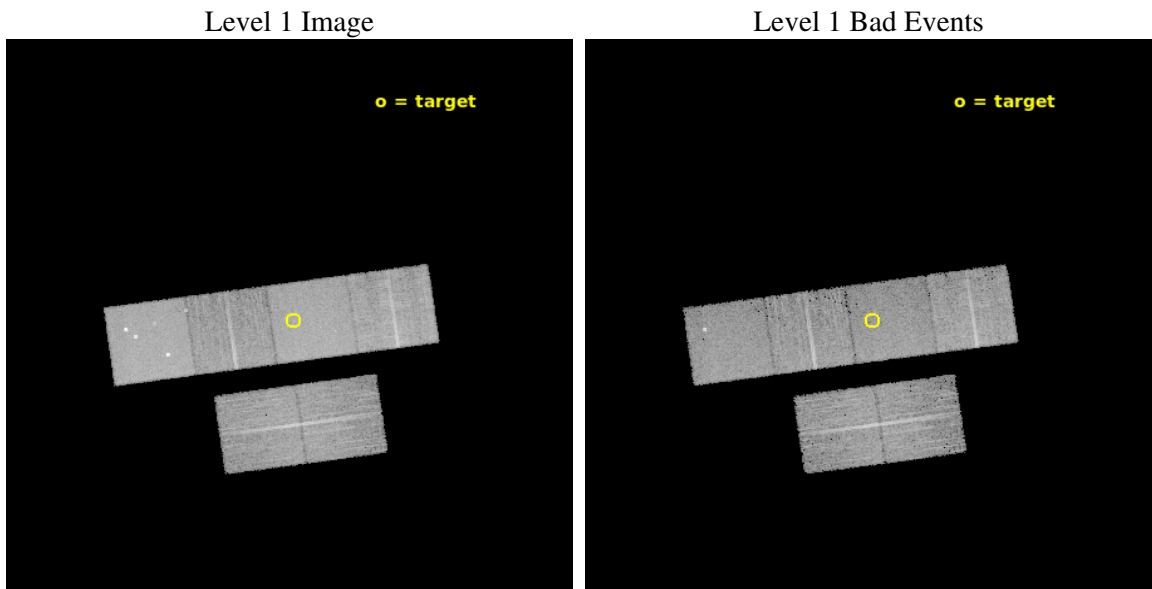
seq_num	800543	Sequence number
obs_id	5834	Observation id
title	X-ray emission from clusters of galaxies from the REFLEX sample.	P
observer	Dr. Peter Predehl	Principal investigator
object	LEDA 800611	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	60.005833	Observer's specified target RA [deg]
dec_targ	-23.454167	Observer's specified target Dec [deg]
ra_nom	60.013183118471	Nominal RA [deg]
dec_nom	-23.45984891014	Nominal Dec [deg]
roll_nom	351.98680887186	Nominal Roll [deg]
revision	4	Processing version of data
ontime	8952.3407594562	Sum of GTIs [s]
livetime	8838.9808303075	Livetime [s]
ontime2	8952.3817994595	Sum of GTIs [s]
ontime3	8952.2176394463	Sum of GTIs [s]
ontime5	8952.2997194529	Sum of GTIs [s]
ontime6	8952.2586794496	Sum of GTIs [s]
ontime7	8952.3407594562	Sum of GTIs [s]
ontime8	8952.1765994728	Sum of GTIs [s]
l2events	109384	Number of level 2 events



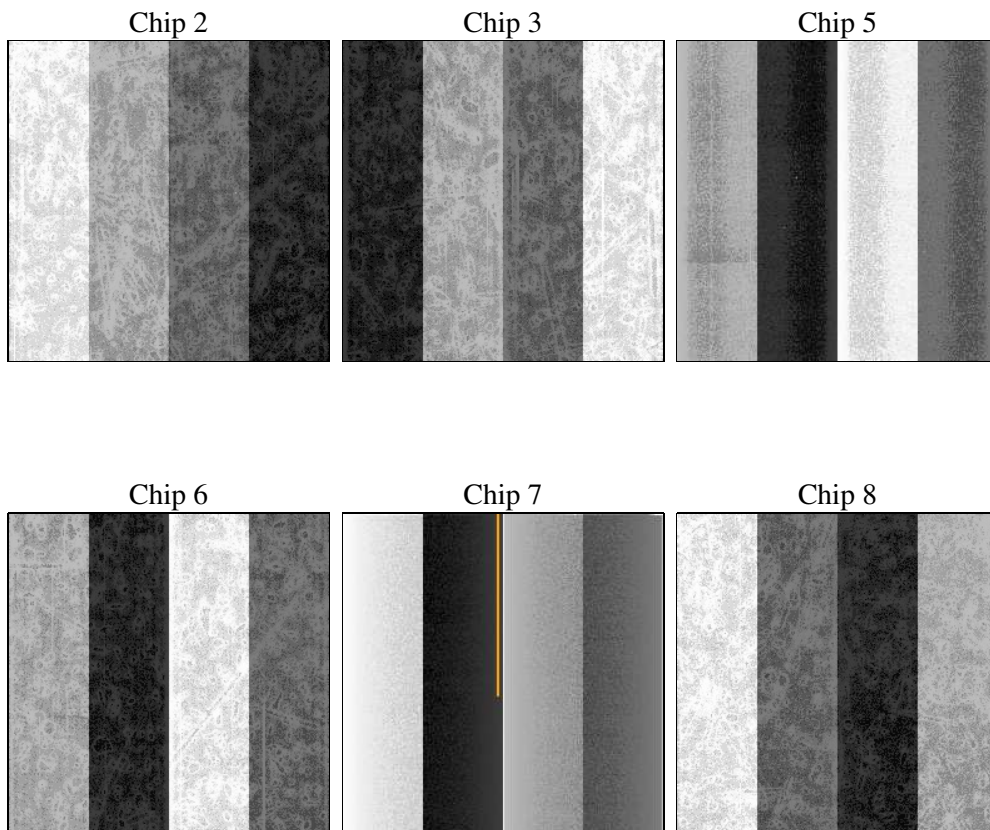
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	9000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	8952.3407594562	Sum of GTIs [s]
caldbver	4.9.2	 	ontime2	8952.3817994595	Sum of GTIs [s]
date	2020-10-05T09:36:25	Date and time of file creation	ontime3	8952.2176394463	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	8952.2997194529	Sum of GTIs [s]
			ontime6	8952.2586794496	Sum of GTIs [s]
			ontime7	8952.3407594562	Sum of GTIs [s]
			ontime8	8952.1765994728	Sum of GTIs [s]
			l1events	490893	Number of level 1 events

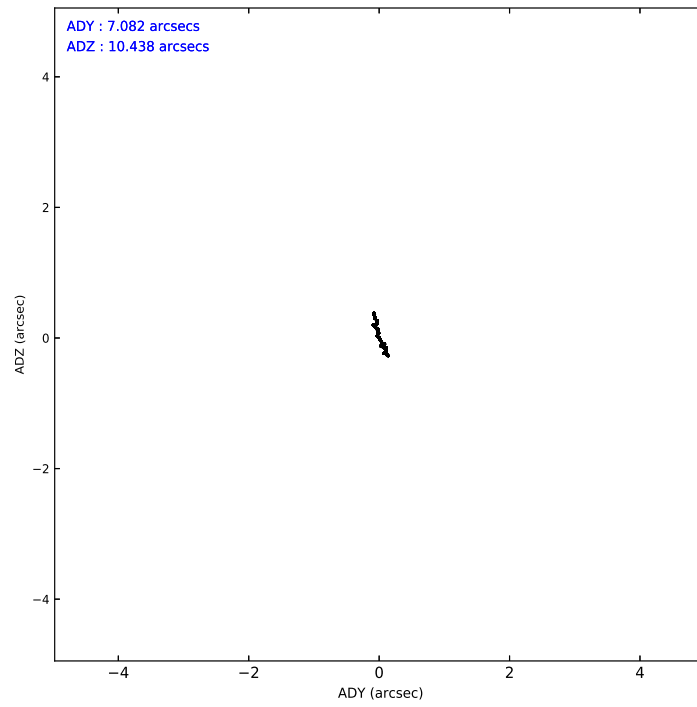
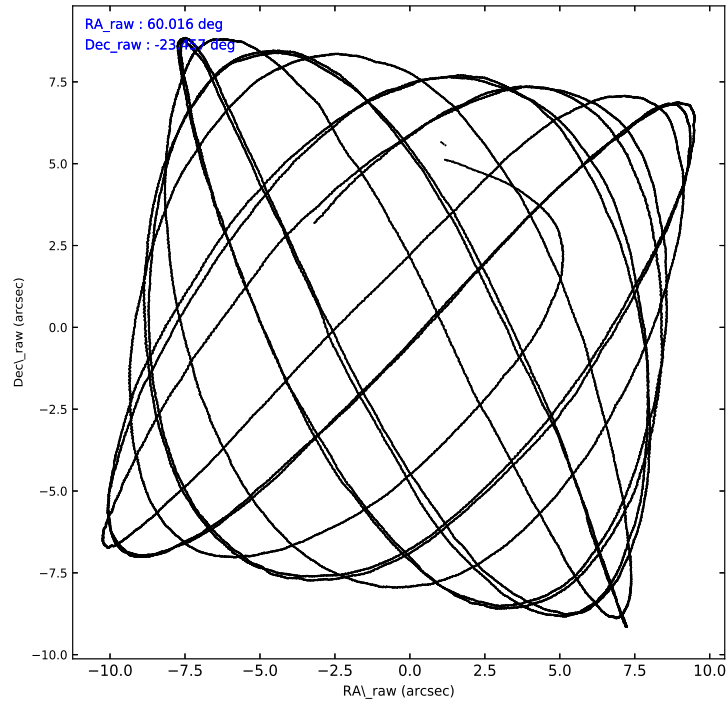
2.1.4 Events

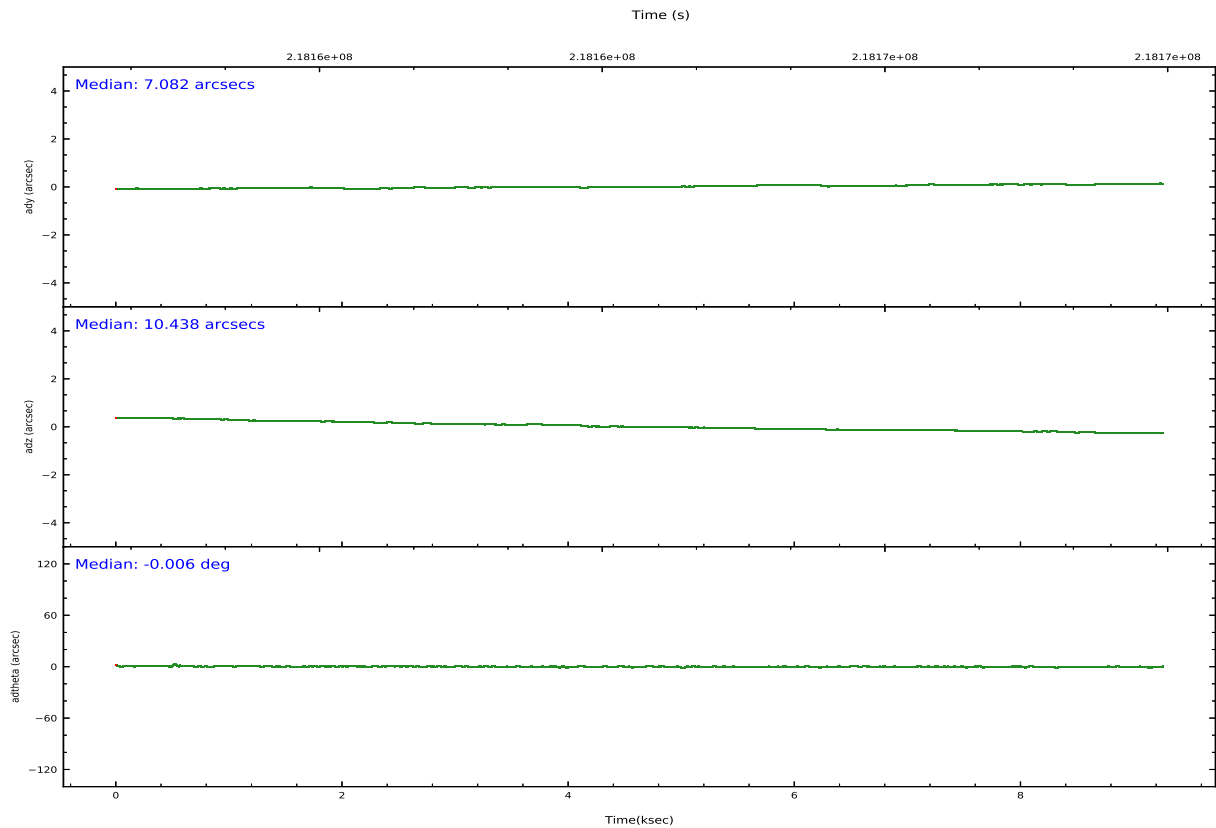
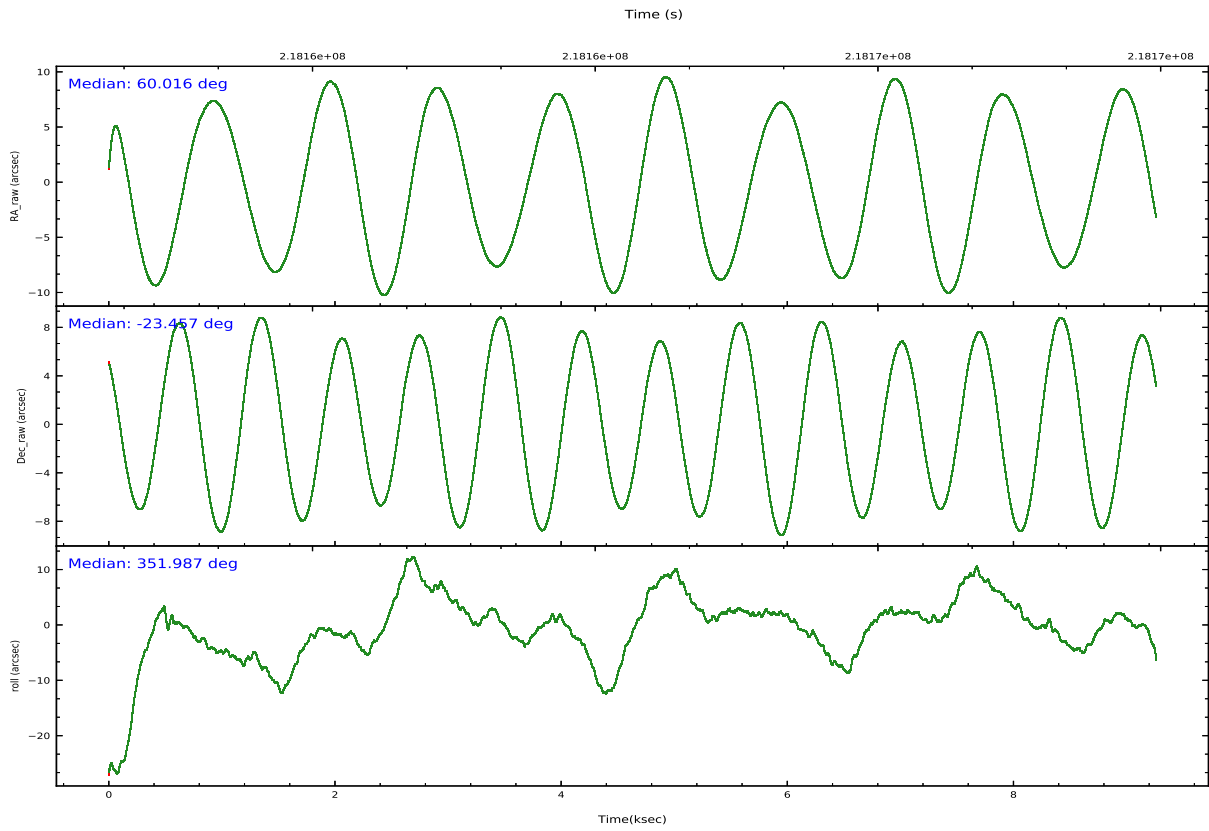
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	70198	66223	106094	67476	92008	88894	grade 0 events	3444	3433	6789	3278	3450	5960
rejected events	62150	58418	56440	59369	53553	69959		4%	5%	6%	4%	3%	6%
rejected %	88%	88%	53%	87%	58%	78%	grade 1 events	40	30	147	34	80	61
								0%	0%	0%	0%	0%	0%
							grade 2 events	1662	1494	14643	1669	7640	4141
								2%	2%	13%	2%	8%	4%
							grade 3 events	762	749	1773	788	3437	1979
								1%	1%	1%	1%	3%	2%
							grade 4 events	773	776	1634	777	3382	1868
								1%	1%	1%	1%	3%	2%
							grade 5 events	2652	3115	8220	3143	8867	4179
								3%	4%	7%	4%	9%	4%
							grade 6 events	1411	1363	24866	1603	20570	5003
								2%	2%	23%	2%	22%	5%
							grade 7 events	59454	55263	48022	56184	44582	65703
								84%	83%	45%	83%	48%	73%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-235678	ACIS-235678	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	59.988483	60.013183118471	Subarray requested	NONE	NONE
[deg] Pointing Dec	-23.467703	-23.45984891014	Alternating exposures requested	N	N
[deg] Pointing Roll	351.817016	351.98680887186	[s] Primary exposure time	0.000000	3.2
[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)	218160961.184000	218159964.46255			
Observation start date	2004-11-30T00:14:57	2004-11-29T23:59:24			
[s] Observation end time (MET)	218169961.184000	218171023.18804			
Observation end date	2004-11-30T02:44:57	2004-11-30T03:03:43			
Read mode	TIMED	TIMED			

2.3 Aspect





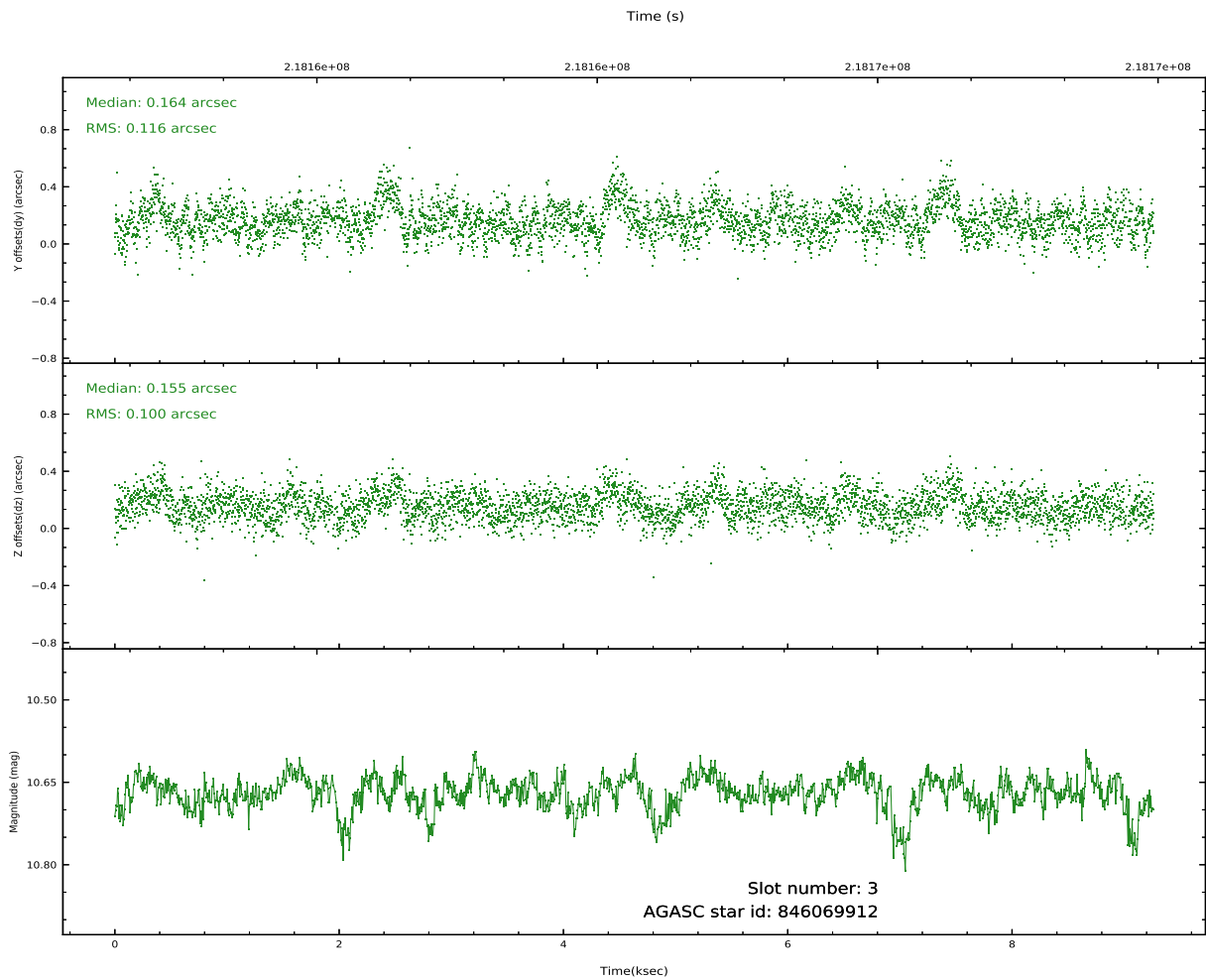
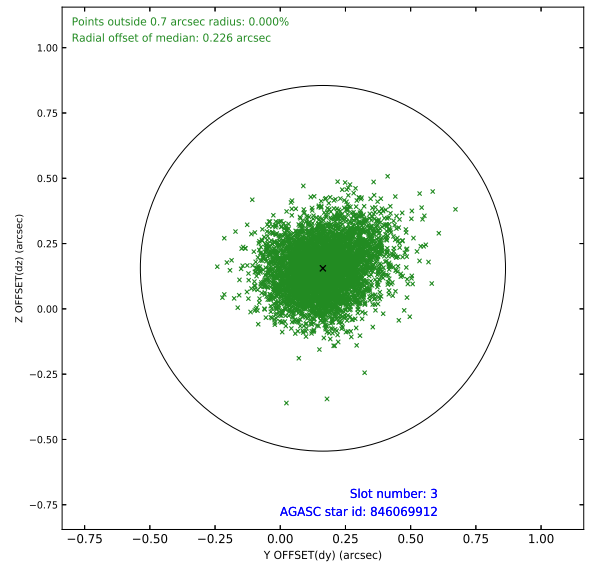
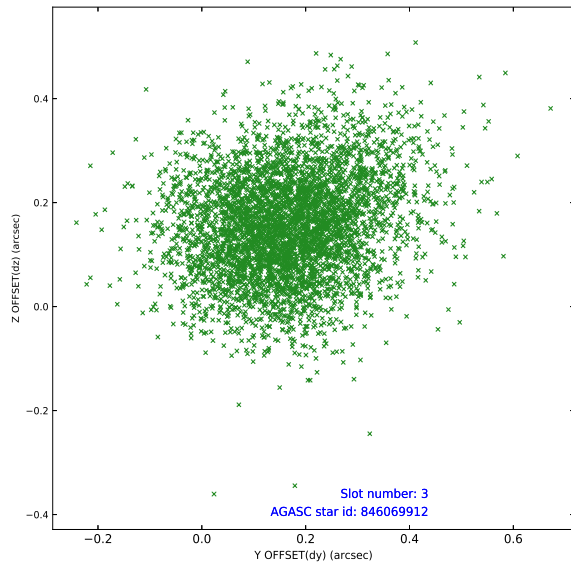
Slot Statistics

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	7.10	2260	1.000	-0.080	-0.053	0.007	0.013	0.000000	0.000000	-759.86	-1731
1	FID		ACIS-S-4	7.21	2260	1.000	0.140	0.053	0.007	0.013	0.000000	0.000000	2153.30	176
2	FID		ACIS-S-5	7.23	2260	1.000	-0.092	0.010	0.007	0.012	0.000000	0.000000	-1812.04	170
3	GUIDE	used	846069912	10.67	4474	1.000	0.164	0.155	0.161	0.264	60.678664	-22.958779	2004.88	2134
4	GUIDE	used	846074552	9.08	4518	1.000	-0.048	-0.078	0.076	0.127	59.979556	-23.182910	-174.44	1010
5	GUIDE	used	846076448	9.11	4519	1.000	-0.069	-0.035	0.087	0.139	59.738165	-23.143037	-986.42	1038
6	GUIDE	used	846077584	9.63	4519	1.000	0.043	0.034	0.091	0.153	59.317984	-23.520588	-2162.83	-508
7	GUIDE	used	846079432	8.86	4515	1.000	-0.087	-0.077	0.075	0.122	59.562661	-23.940040	-1144.73	-1884

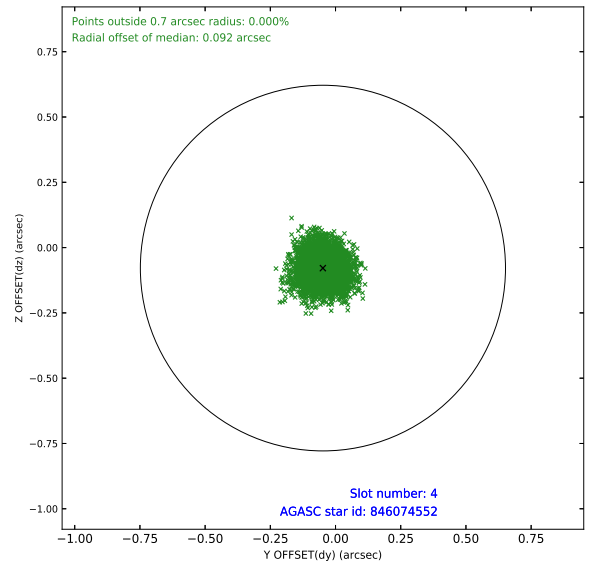
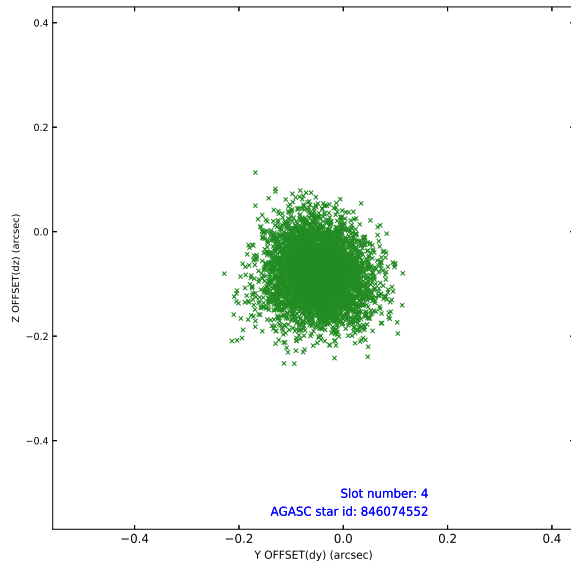
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2.4 Star Slots

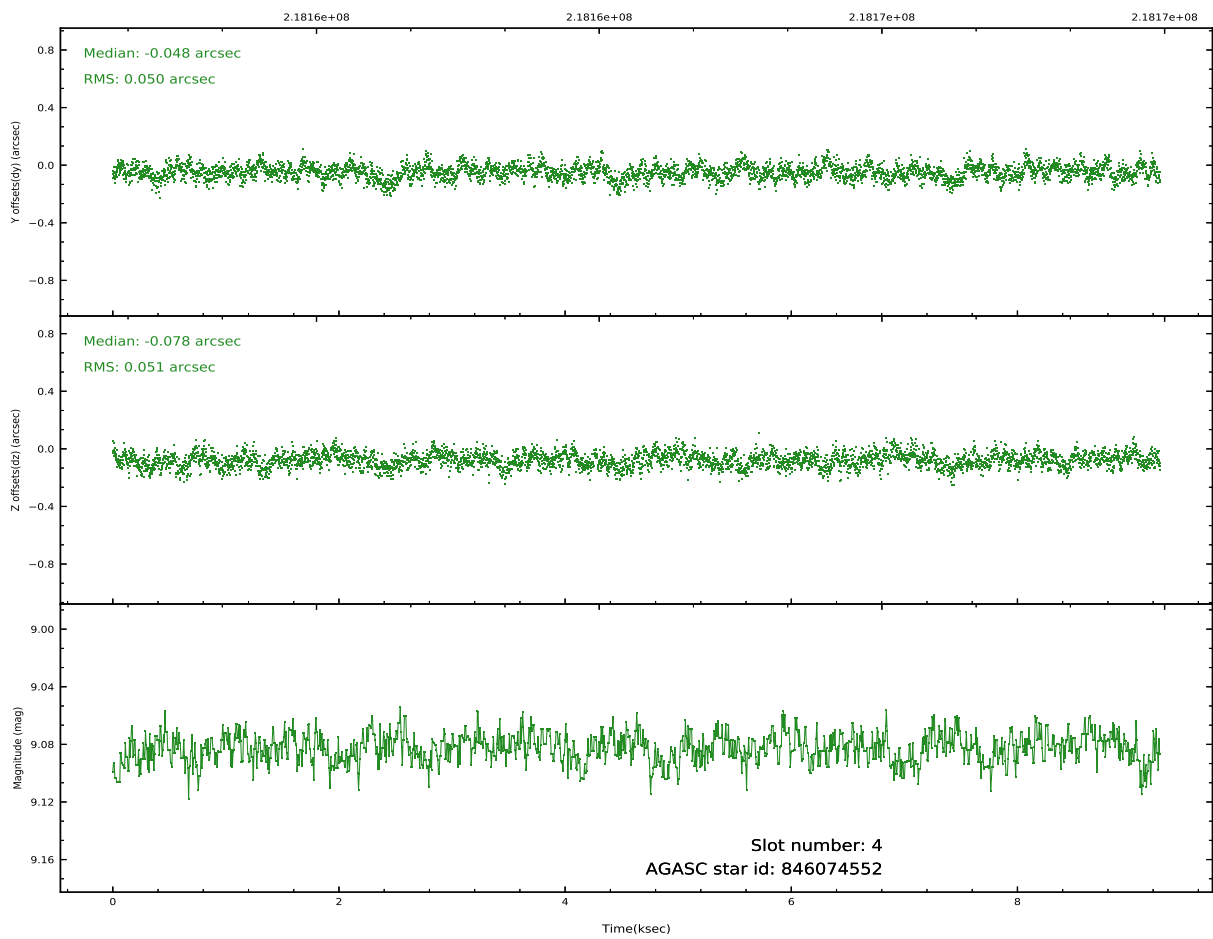
2.4.1 Slot 3



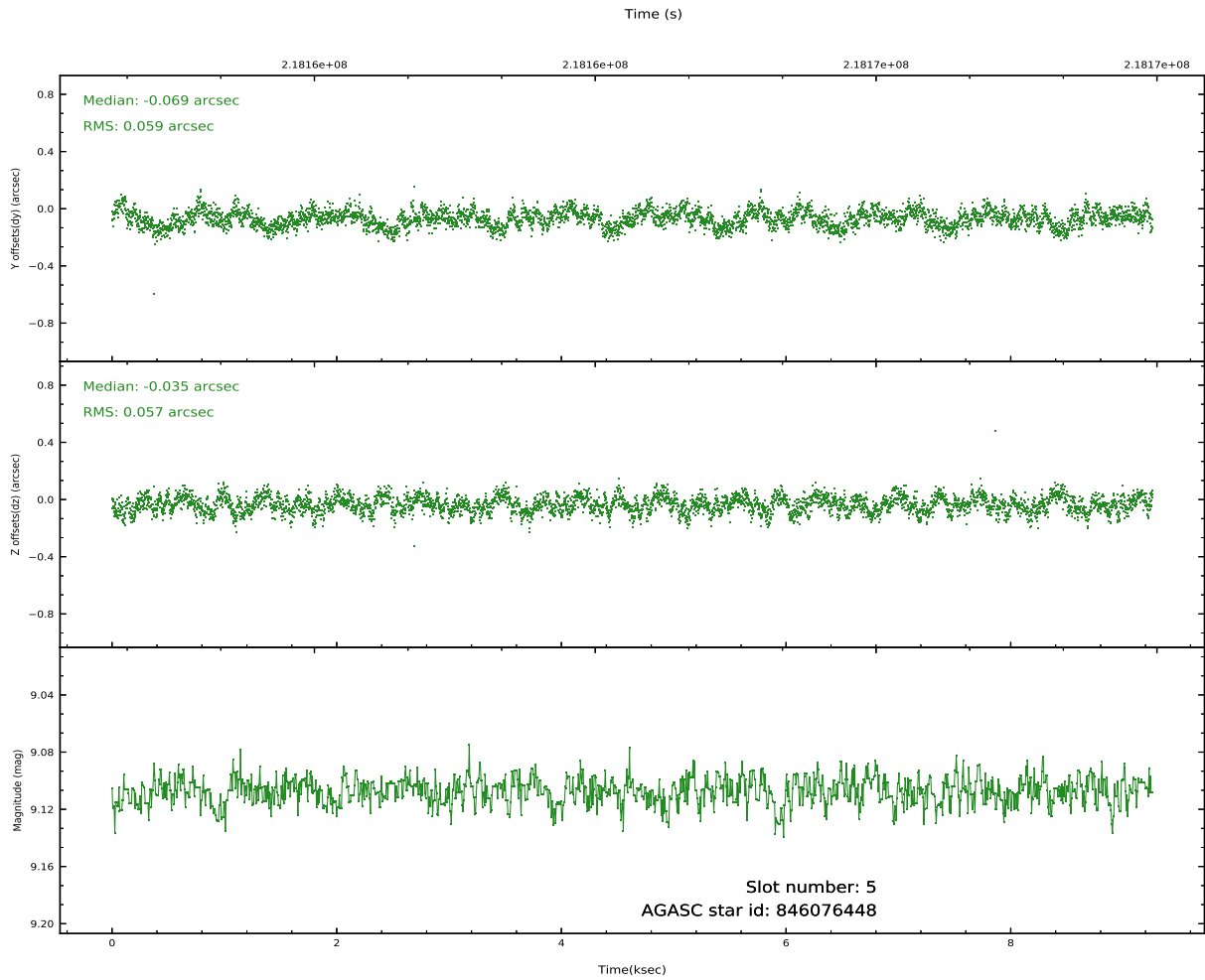
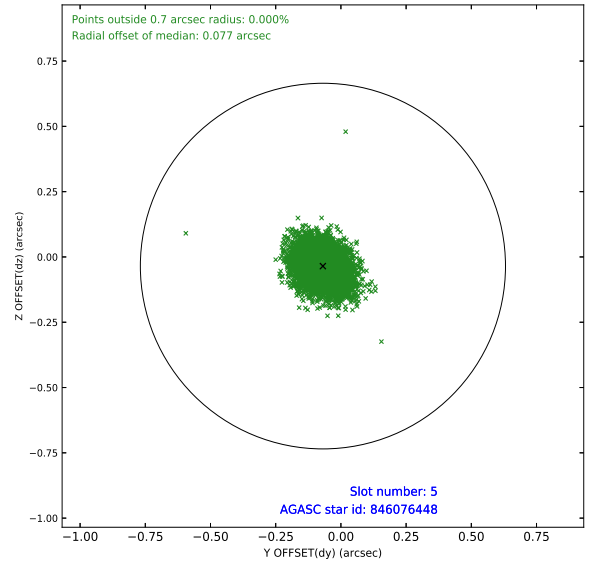
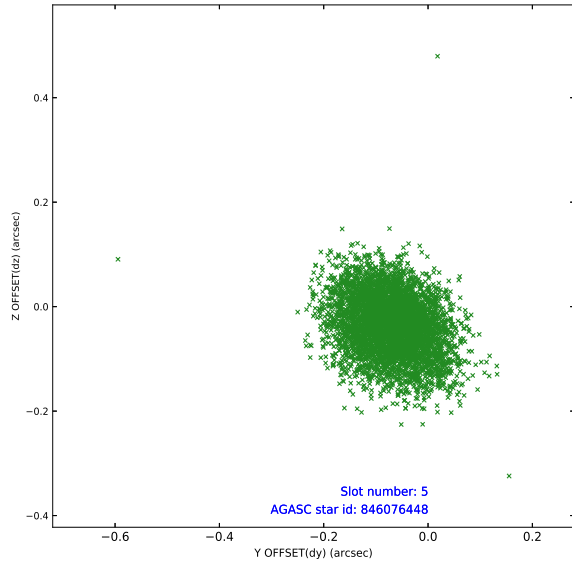
2.4.2 Slot 4



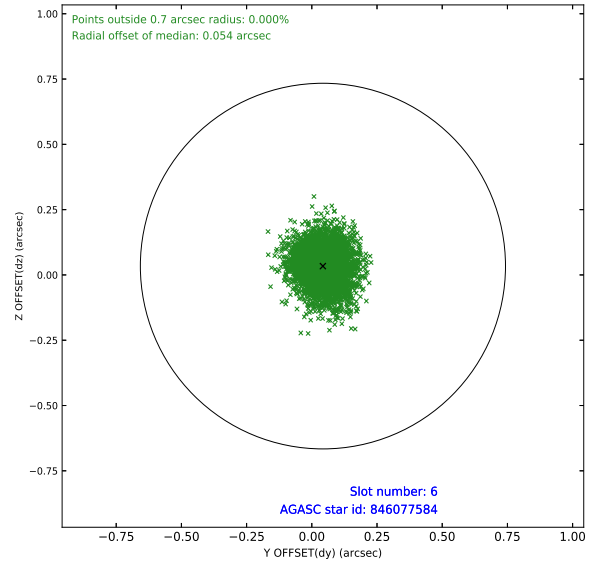
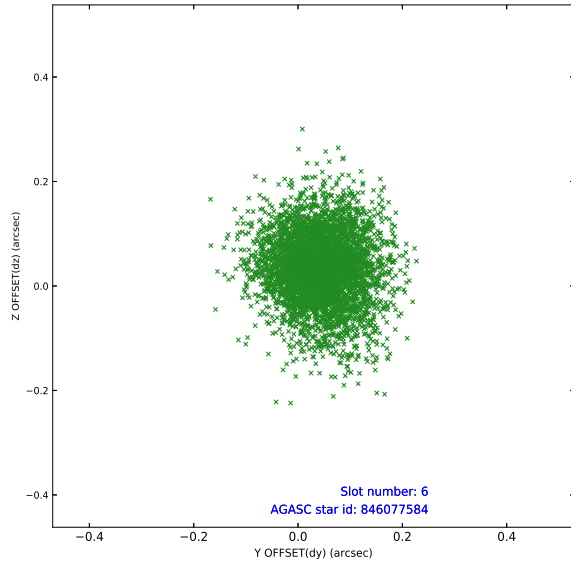
Time (s)



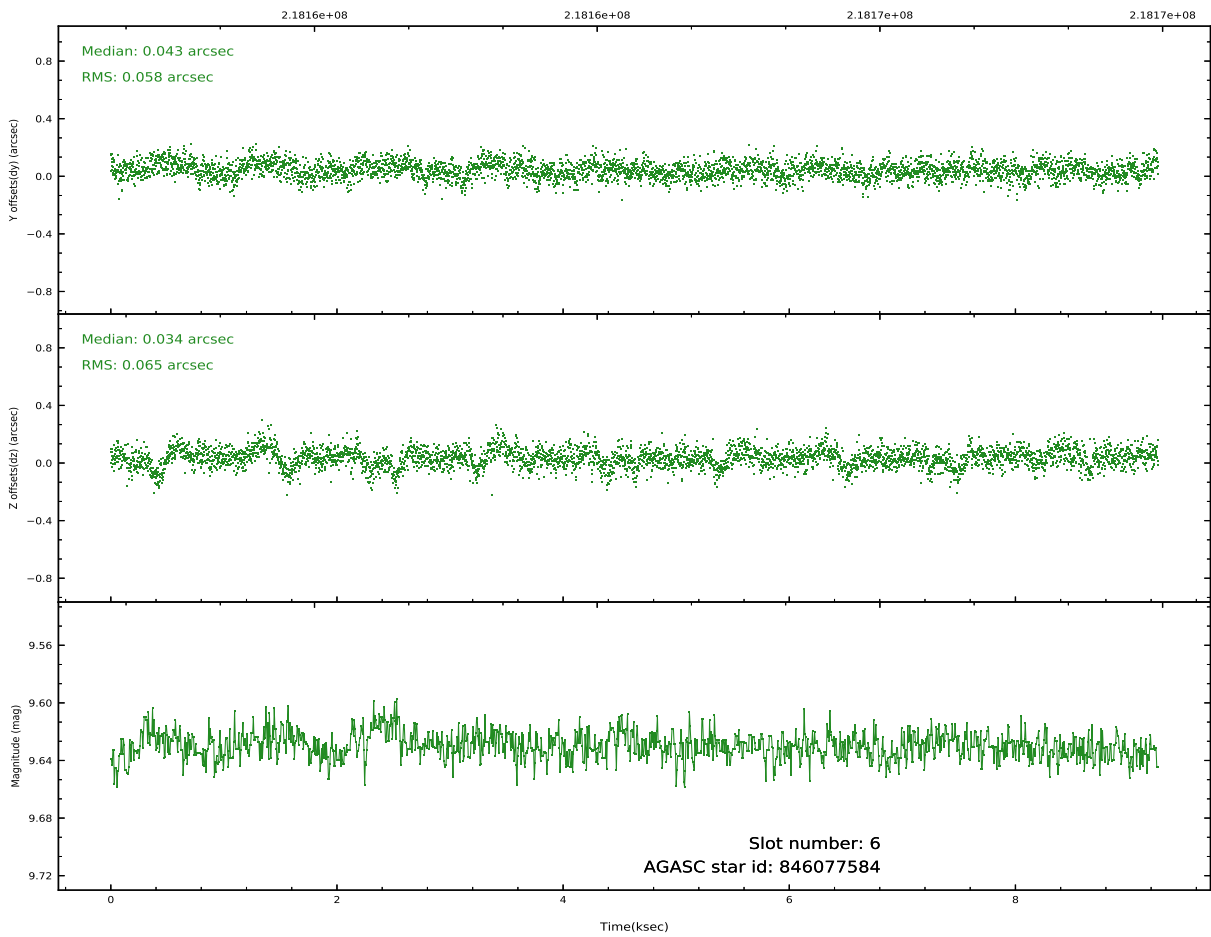
2.4.3 Slot 5



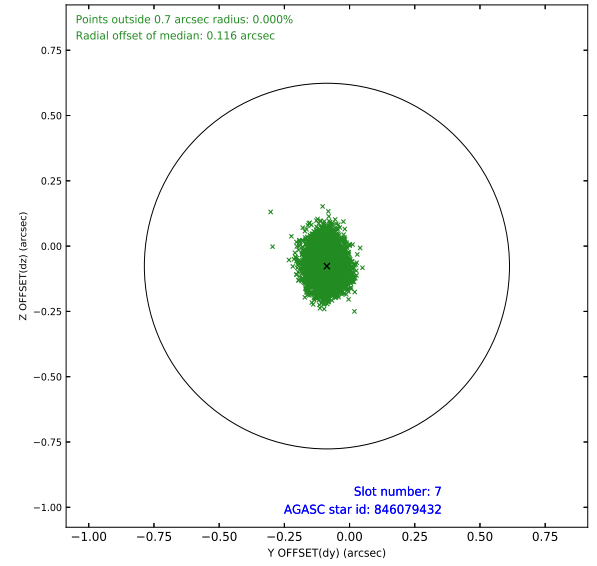
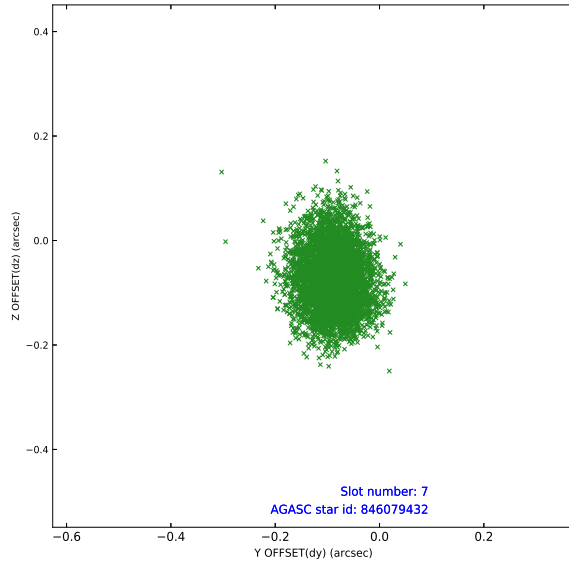
2.4.4 Slot 6



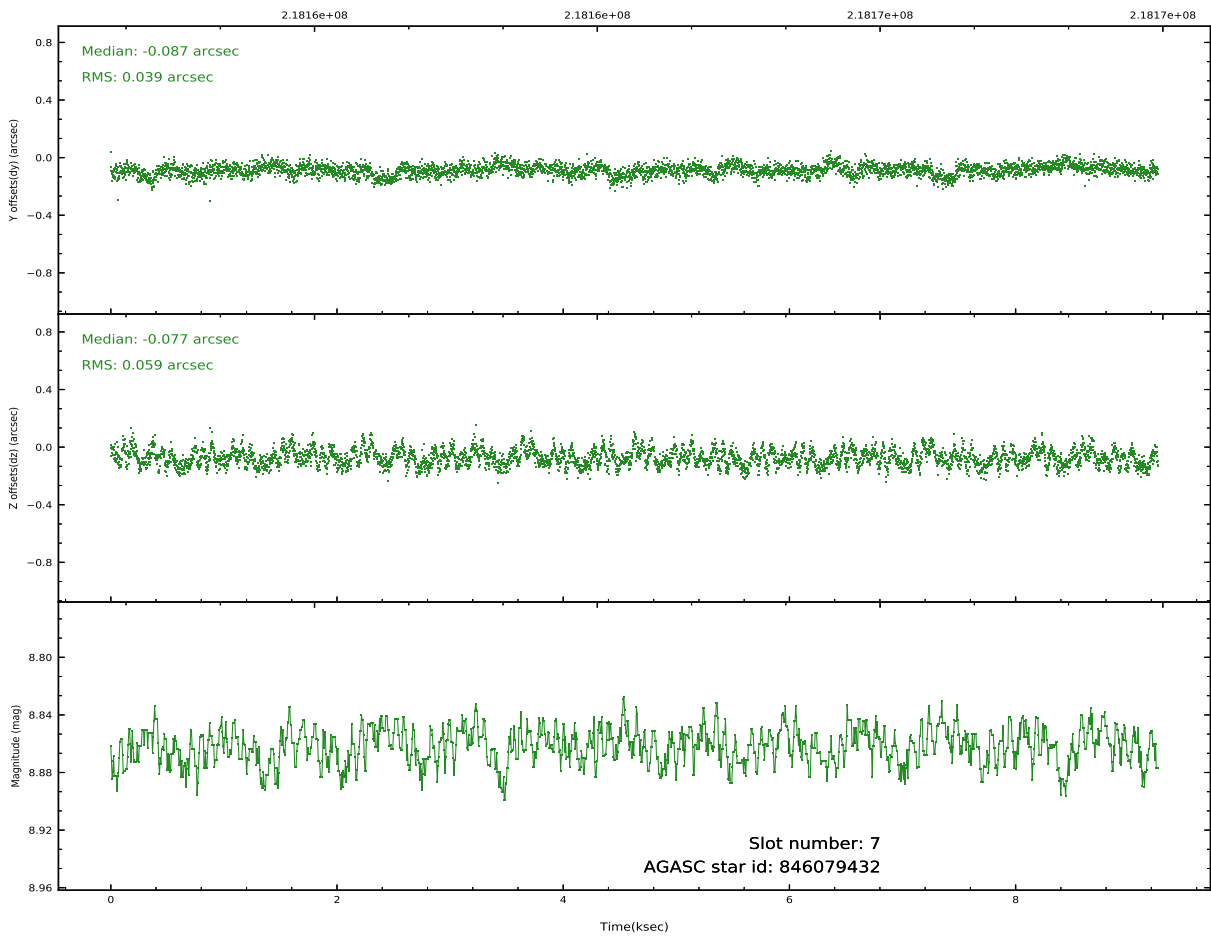
Time (s)



2.4.5 Slot 7

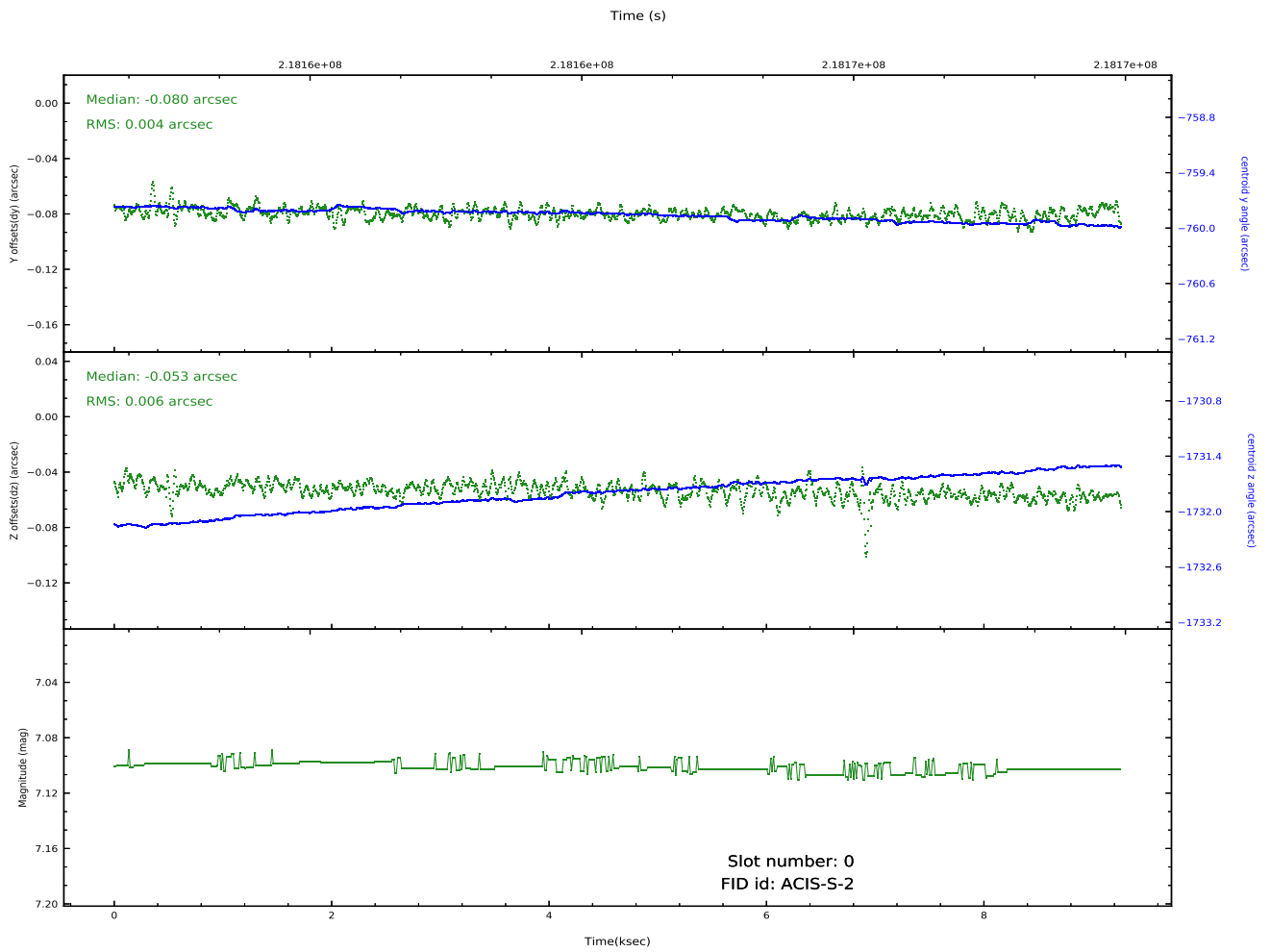
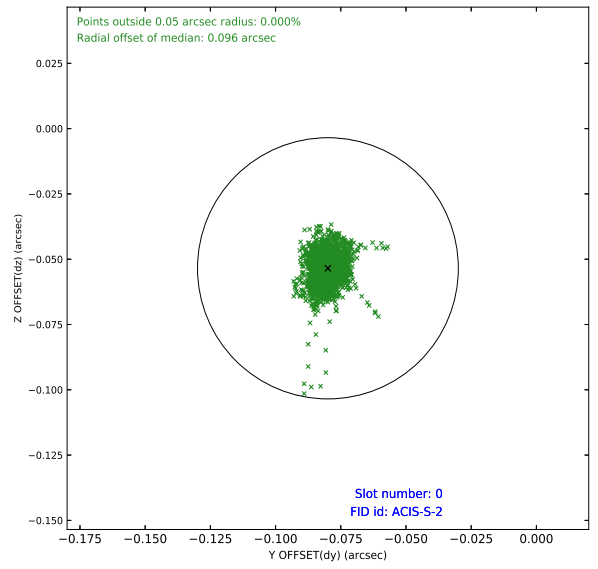
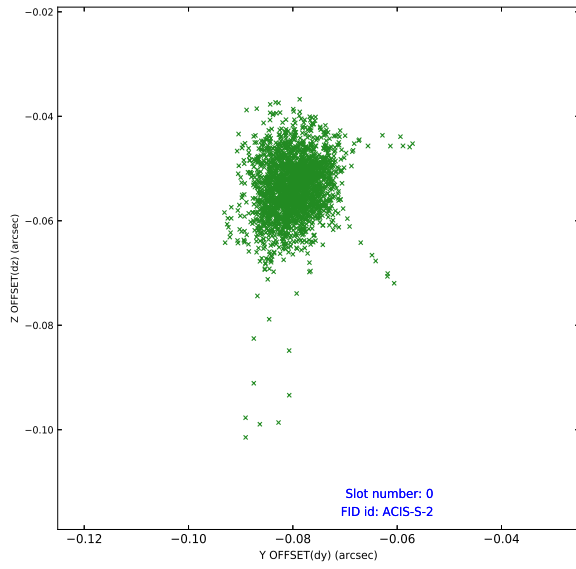


Time (s)

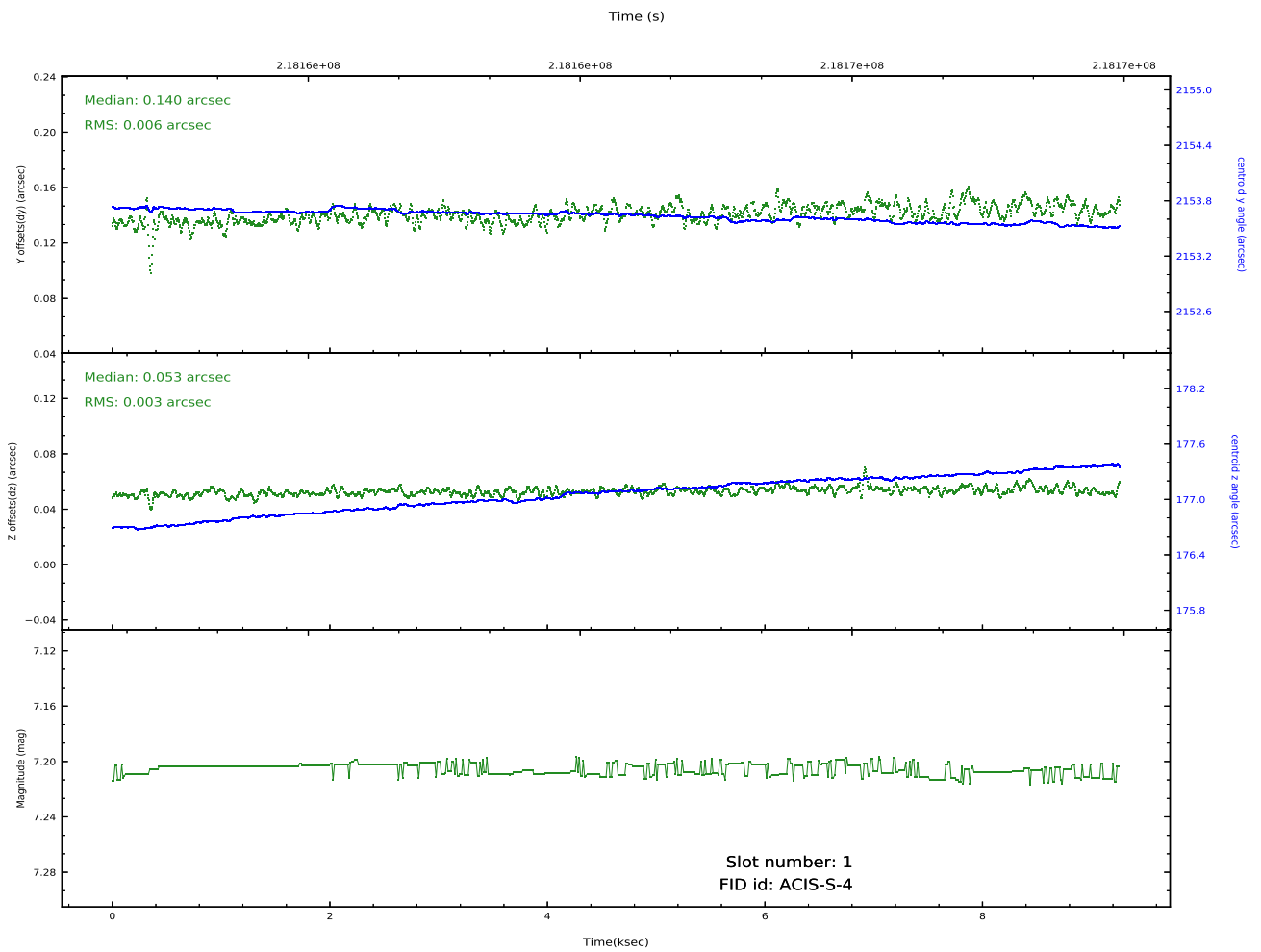
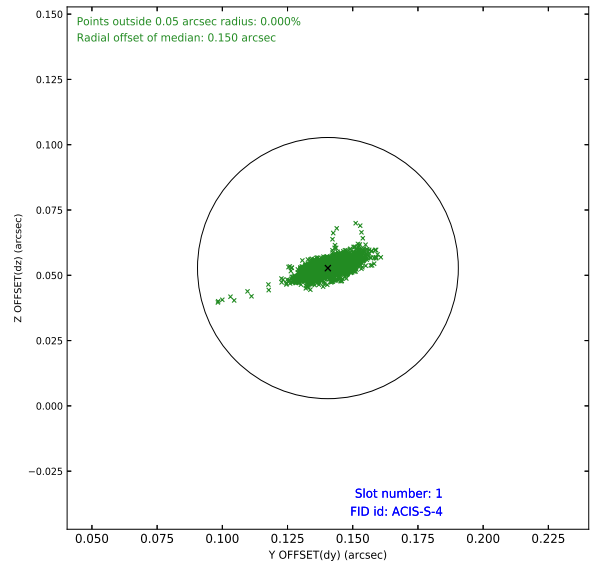
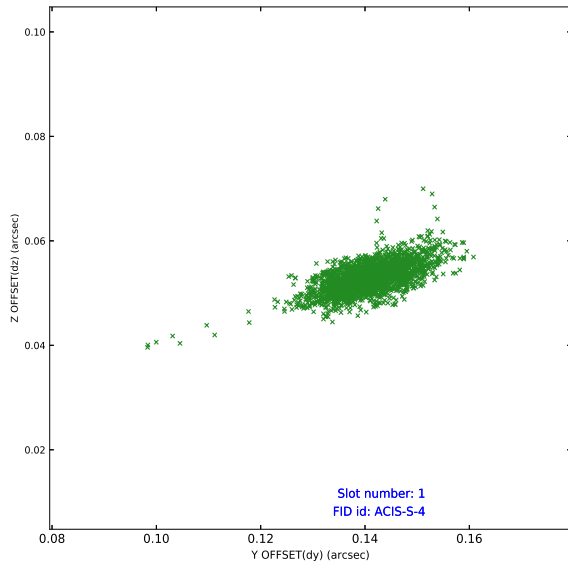


2.5 FID Slots

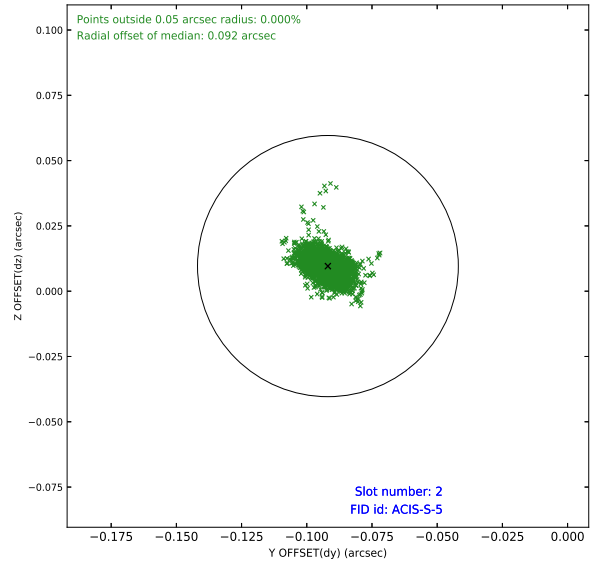
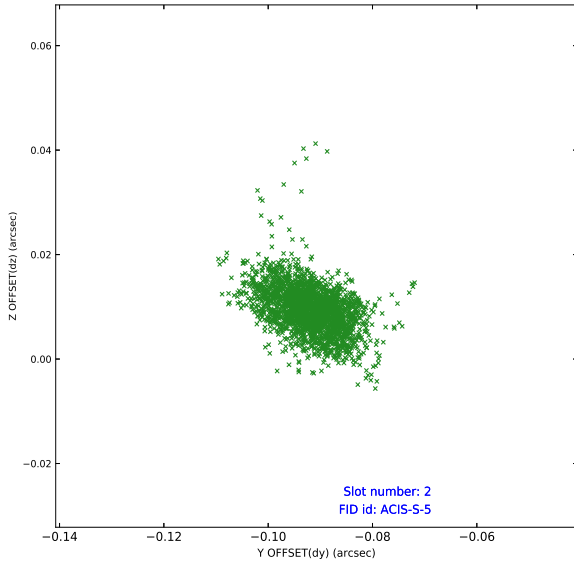
2.5.1 Slot 0



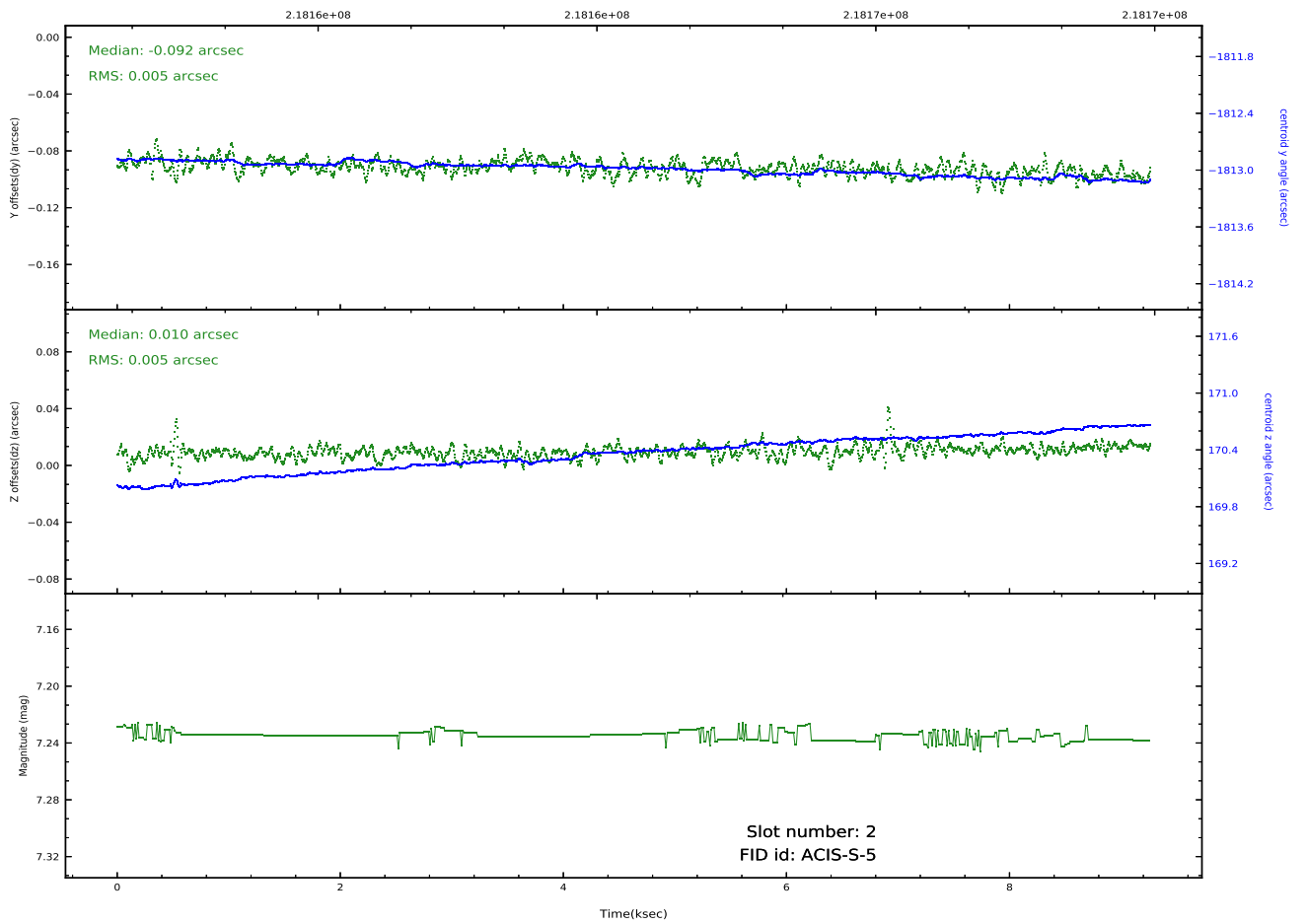
2.5.2 Slot 1



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	8.953599

A.2 Comments