

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 4628 - L2 Version 4
Chandra X-Ray Center

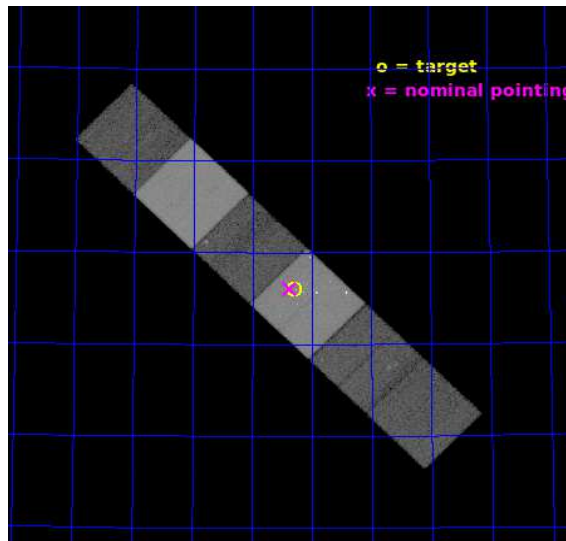
L2 Processing Date : Sep 29 2020

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1 Front

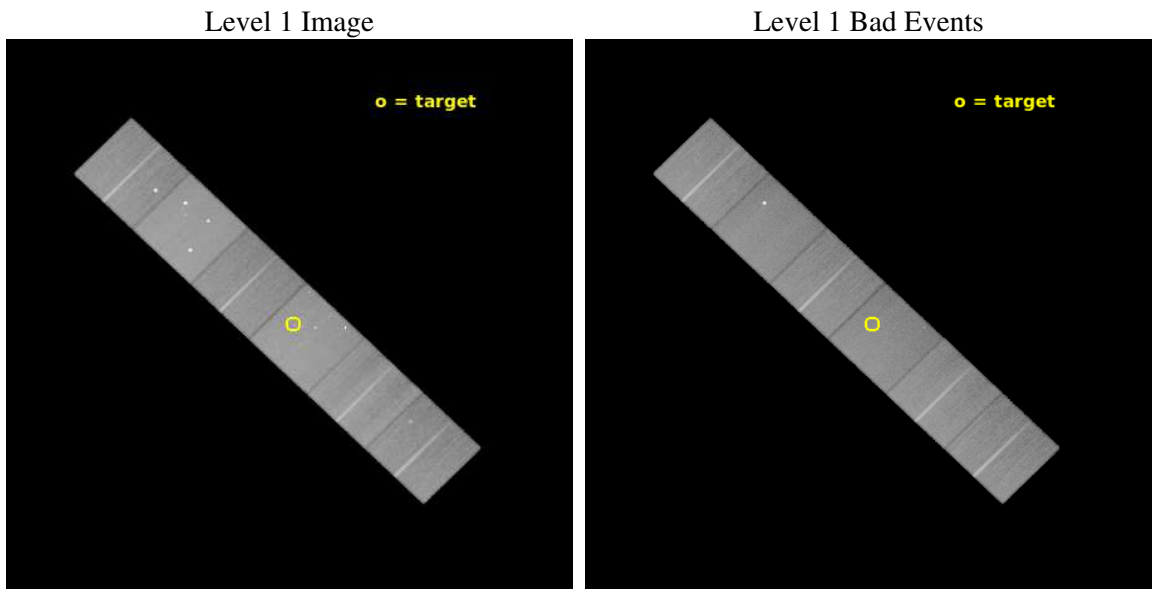
seq_num	500453	Sequence number
obs_id	4628	Observation id
title	Prompt Chandra Observations of Nearby Supernovae	Proposal title
observer	Prof. Walter Lewin	Principal investigator
object	SN 2004dj	Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	114.32125	Observer's specified target RA [deg]
dec_targ	65.599528	Observer's specified target Dec [deg]
ra_nom	114.34246765848	Nominal RA [deg]
dec_nom	65.601161861103	Nominal Dec [deg]
roll_nom	44.496672351889	Nominal Roll [deg]
revision	4	Processing version of data
ontime	47119.999824464	Sum of GTIs [s]
livetime	46523.338014429	Livetime [s]
ontime4	47119.999824464	Sum of GTIs [s]
ontime5	47119.999824464	Sum of GTIs [s]
ontime6	47119.999824464	Sum of GTIs [s]
ontime7	47119.999824464	Sum of GTIs [s]
ontime8	47119.999824464	Sum of GTIs [s]
ontime9	47119.999824464	Sum of GTIs [s]
l2events	565601	Number of level 2 events



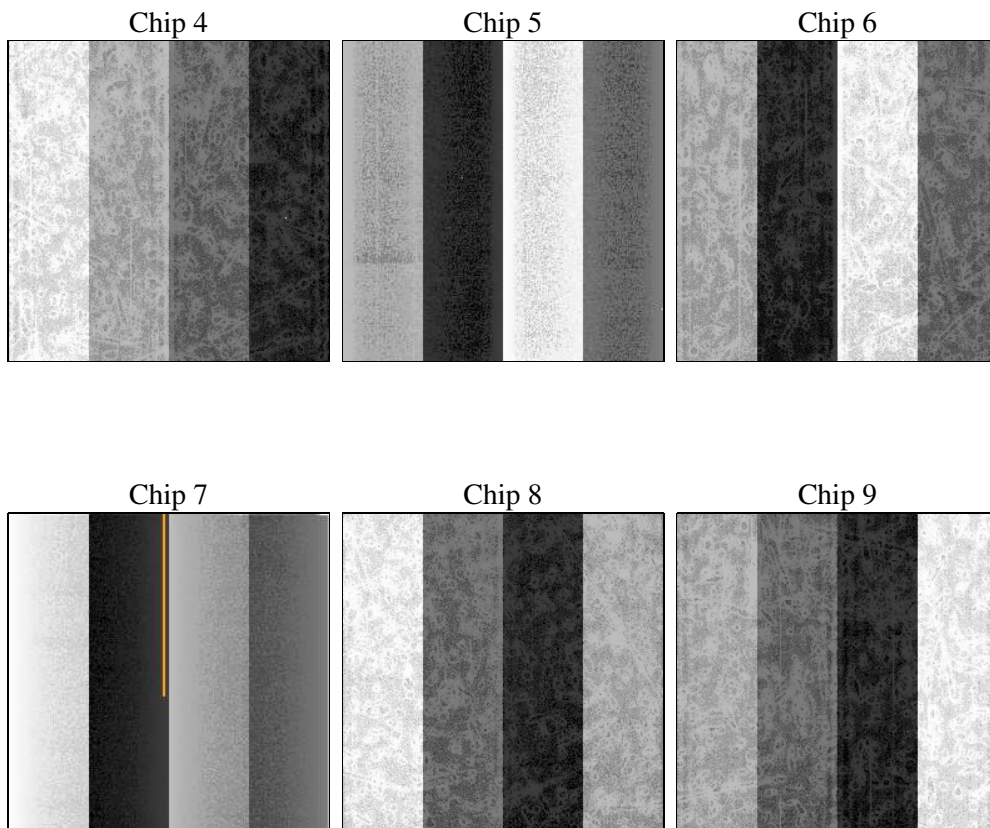
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	47000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	47119.999824464	Sum of GTIs [s]
caldbver	4.9.2	 	ontime4	47119.999824464	Sum of GTIs [s]
date	2020-09-29T08:27:35	Date and time of file creation	ontime5	47119.999824464	Sum of GTIs [s]
revision	4	Processing version of data	ontime6	47119.999824464	Sum of GTIs [s]
			ontime7	47119.999824464	Sum of GTIs [s]
			ontime8	47119.999824464	Sum of GTIs [s]
			ontime9	47119.999824464	Sum of GTIs [s]
			l1events	2641401	Number of level 1 events

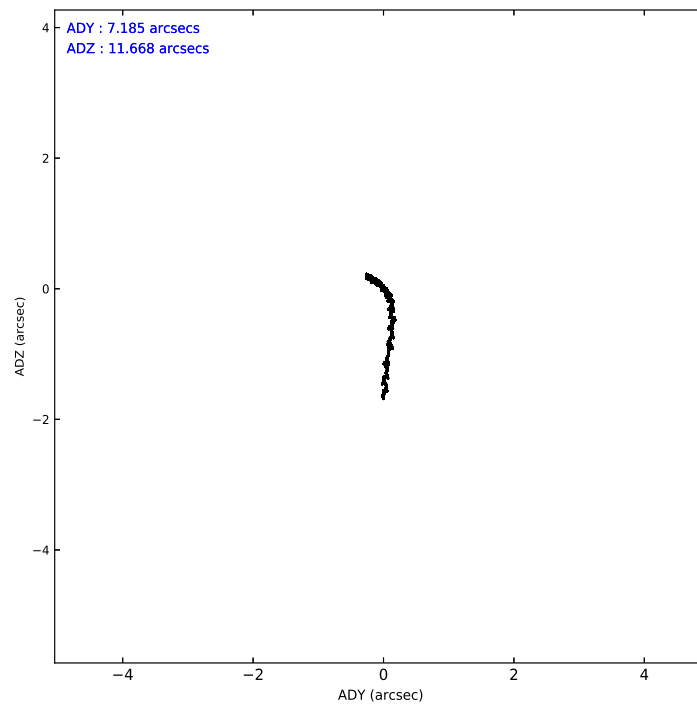
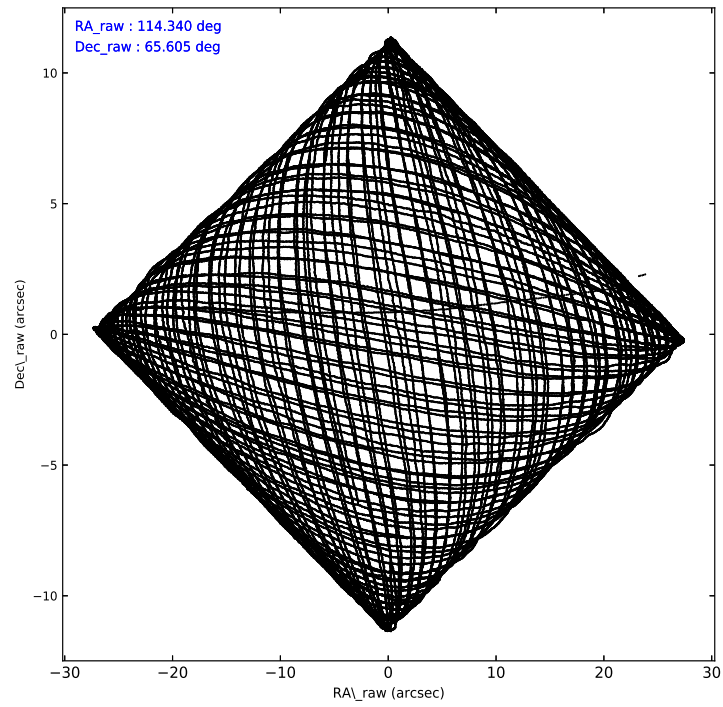
2.1.4 Events

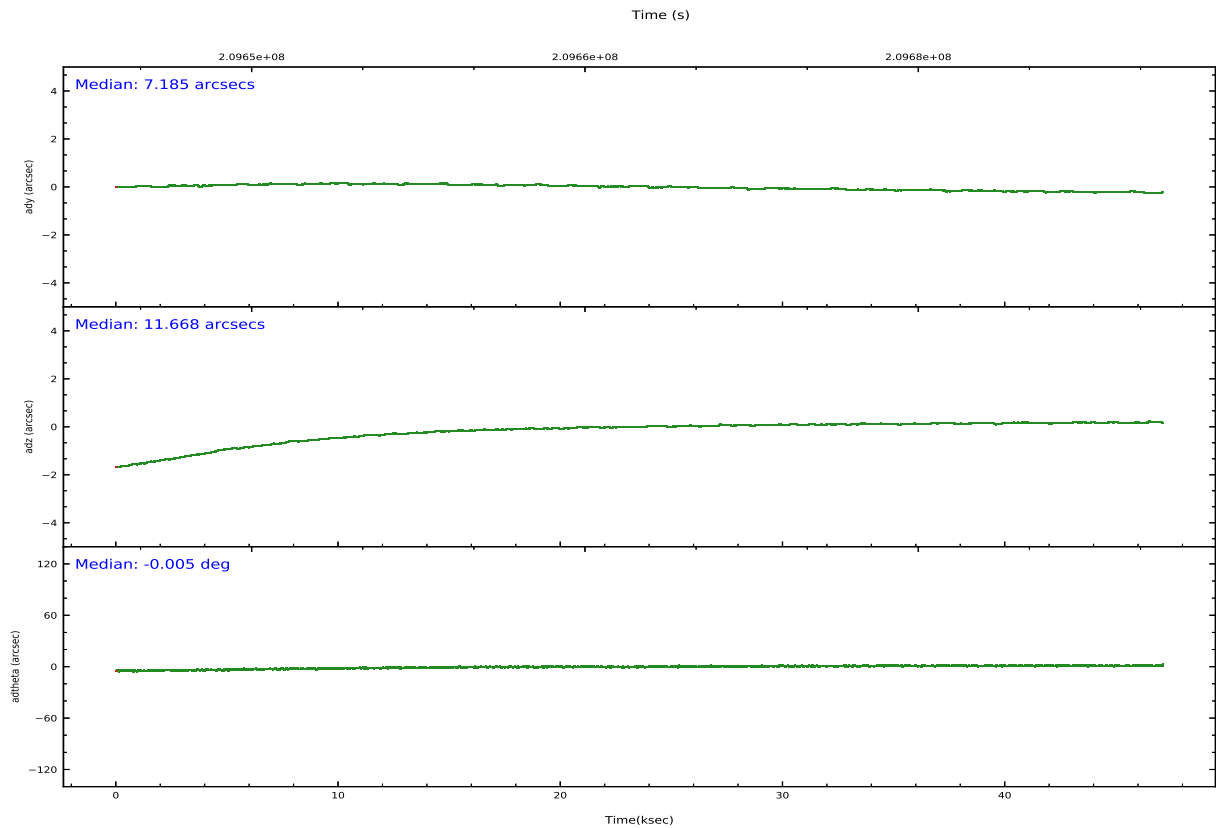
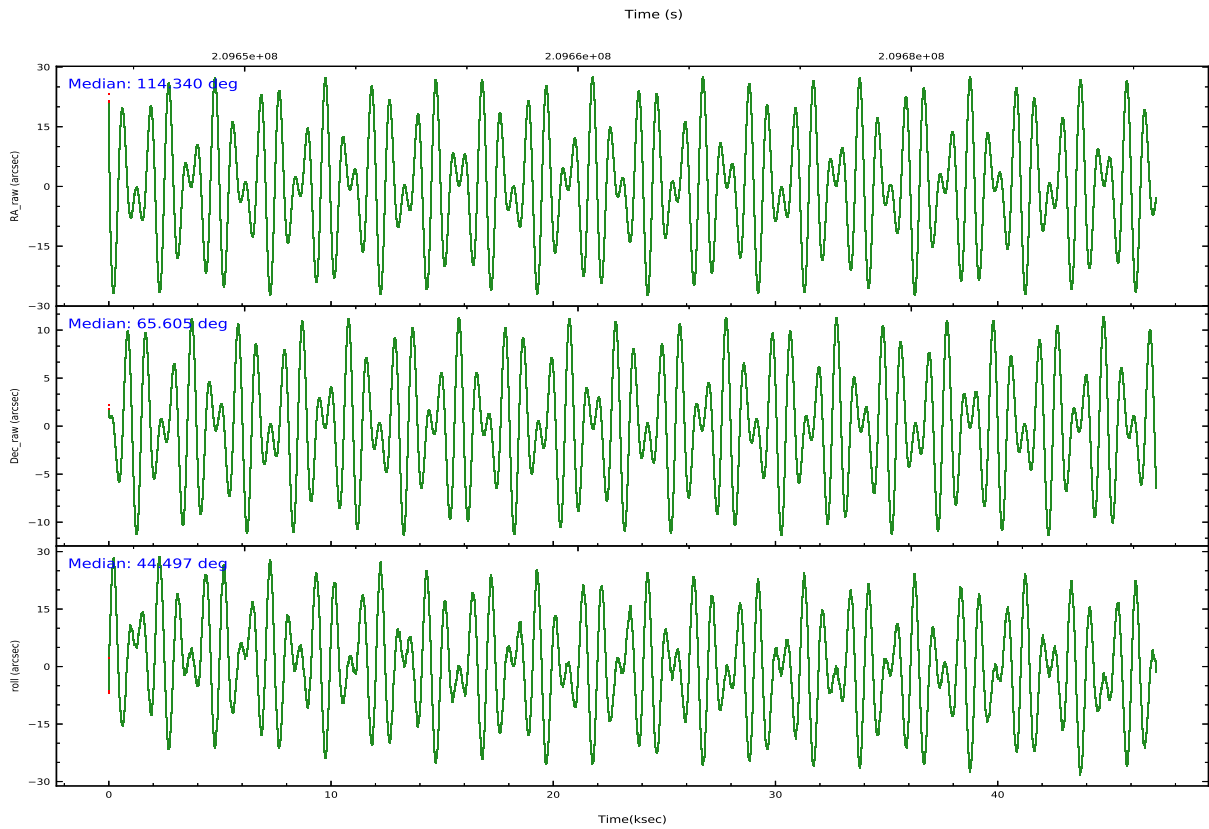
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	409847	553971	366027	500040	453383	358133	grade 0 events	31146	33840	16627	22381	30051	19115
rejected events	355709	309033	325393	290911	360693	315109		7%	6%	4%	4%	6%	5%
rejected %	86%	55%	88%	58%	79%	87%	grade 1 events	444	11296	178	494	330	243
								0%	2%	0%	0%	0%	0%
							grade 2 events	9018	73791	8602	43921	21113	8377
								2%	13%	2%	8%	4%	2%
							grade 3 events	4632	9501	4225	19612	10299	4356
								1%	1%	1%	3%	2%	1%
							grade 4 events	4329	9083	4069	19490	9647	4130
								1%	1%	1%	3%	2%	1%
							grade 5 events	15616	39025	16443	46151	21465	17304
								3%	7%	4%	9%	4%	4%
							grade 6 events	6901	127807	8541	110720	25170	8543
								1%	23%	2%	22%	5%	2%
							grade 7 events	337761	249628	307342	237271	335308	296065
								82%	45%	83%	47%	73%	82%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-456789	ACIS-456789	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	114.323831	114.34246765848	Subarray requested	NONE	NONE
[deg] Pointing Dec	65.578653	65.60116186110299	Alternating exposures requested	N	N
[deg] Pointing Roll	44.355173	44.496672351889	[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)	209644017.184000	209642134.1315			
Observation start date	2004-08-23T10:25:53	2004-08-23T09:55:34			
[s] Observation end time (MET)	209691017.184000	209692281.74624			
Observation end date	2004-08-23T23:29:13	2004-08-23T23:51:21			
Read mode	TIMED	TIMED			

2.3 Aspect



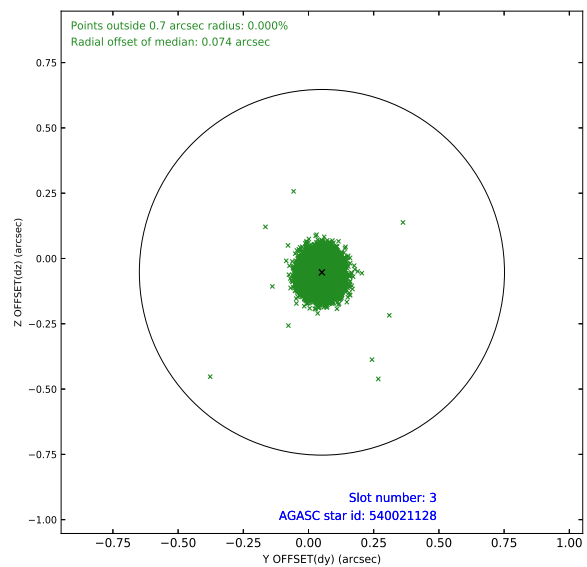
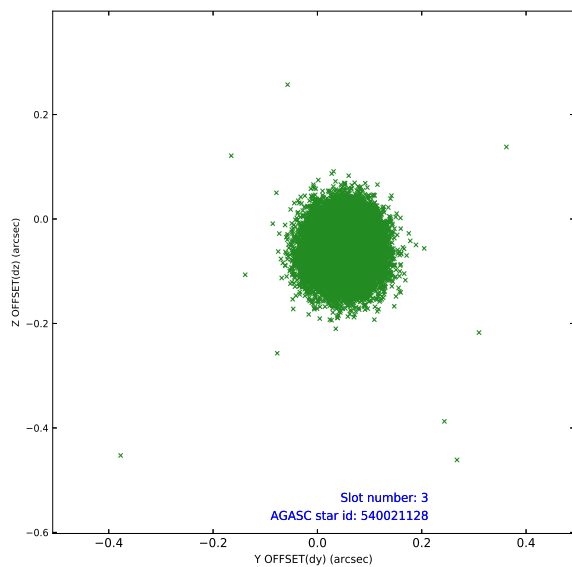


Slot Statistics

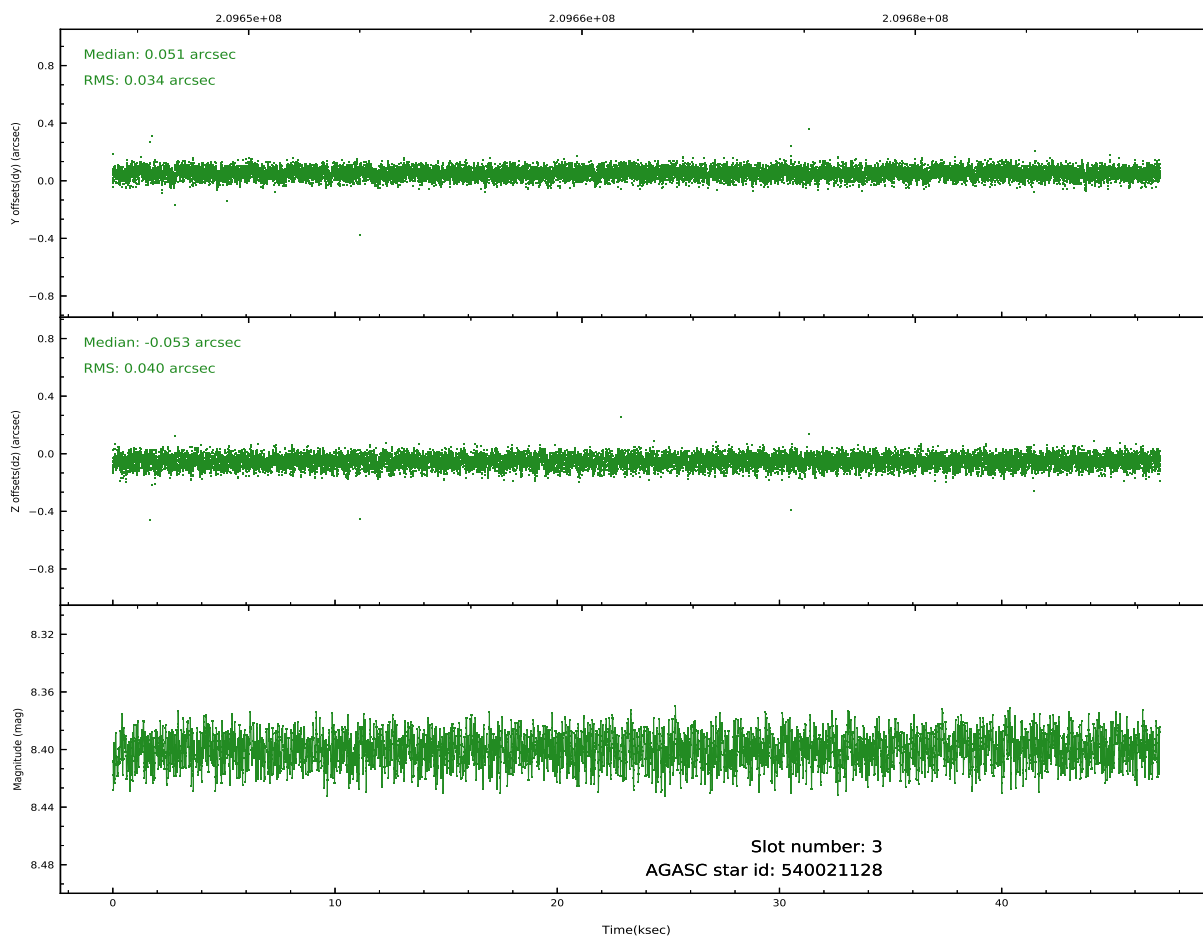
slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_x
0	FID		ACIS-S-1	7.18	11496	1.000	0.067	-0.116	0.010	0.042	0.000000	0.000000	936.17	-1728
1	FID		ACIS-S-5	7.24	11493	1.000	-0.092	0.036	0.011	0.021	0.000000	0.000000	-1812.97	169
2	FID		ACIS-S-6	7.34	11496	1.000	0.002	0.093	0.013	0.036	0.000000	0.000000	401.70	813
3	GUIDE	used	540021128	8.40	22987	1.000	0.051	-0.053	0.056	0.089	114.291258	65.330448	-659.05	-604
4	GUIDE	used	540021904	8.75	22979	1.000	0.066	0.000	0.062	0.100	114.203372	65.242134	-976.24	-739
5	GUIDE	used	540152256	7.77	22990	1.000	-0.148	0.166	0.061	0.100	116.023663	65.438119	1489.33	-2115
6	GUIDE	used	540548768	8.50	22986	1.000	0.057	-0.074	0.064	0.102	113.788166	65.673634	-326.57	802
7	GUIDE	used	540541056	8.93	22978	1.000	-0.031	-0.040	0.061	0.099	114.633382	66.183962	1846.02	1244

2.4 Star Slots

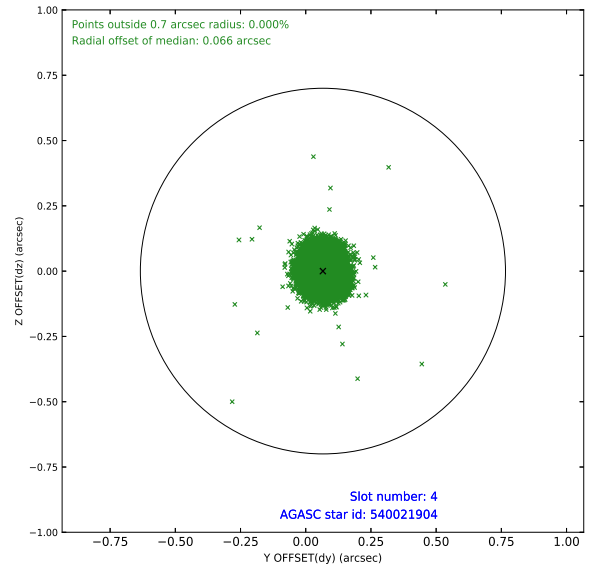
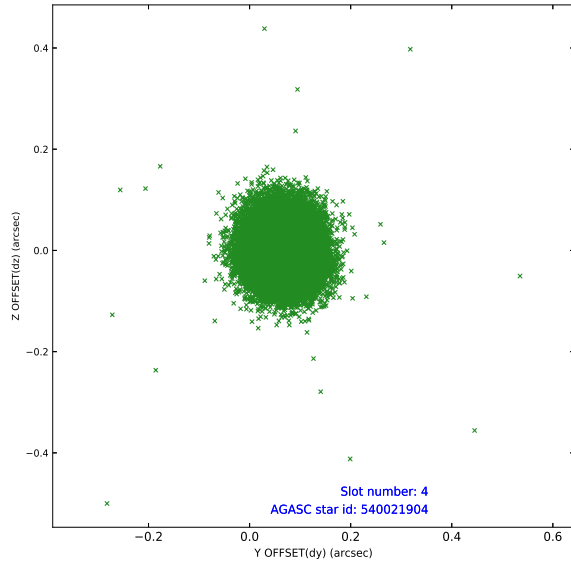
2.4.1 Slot 3



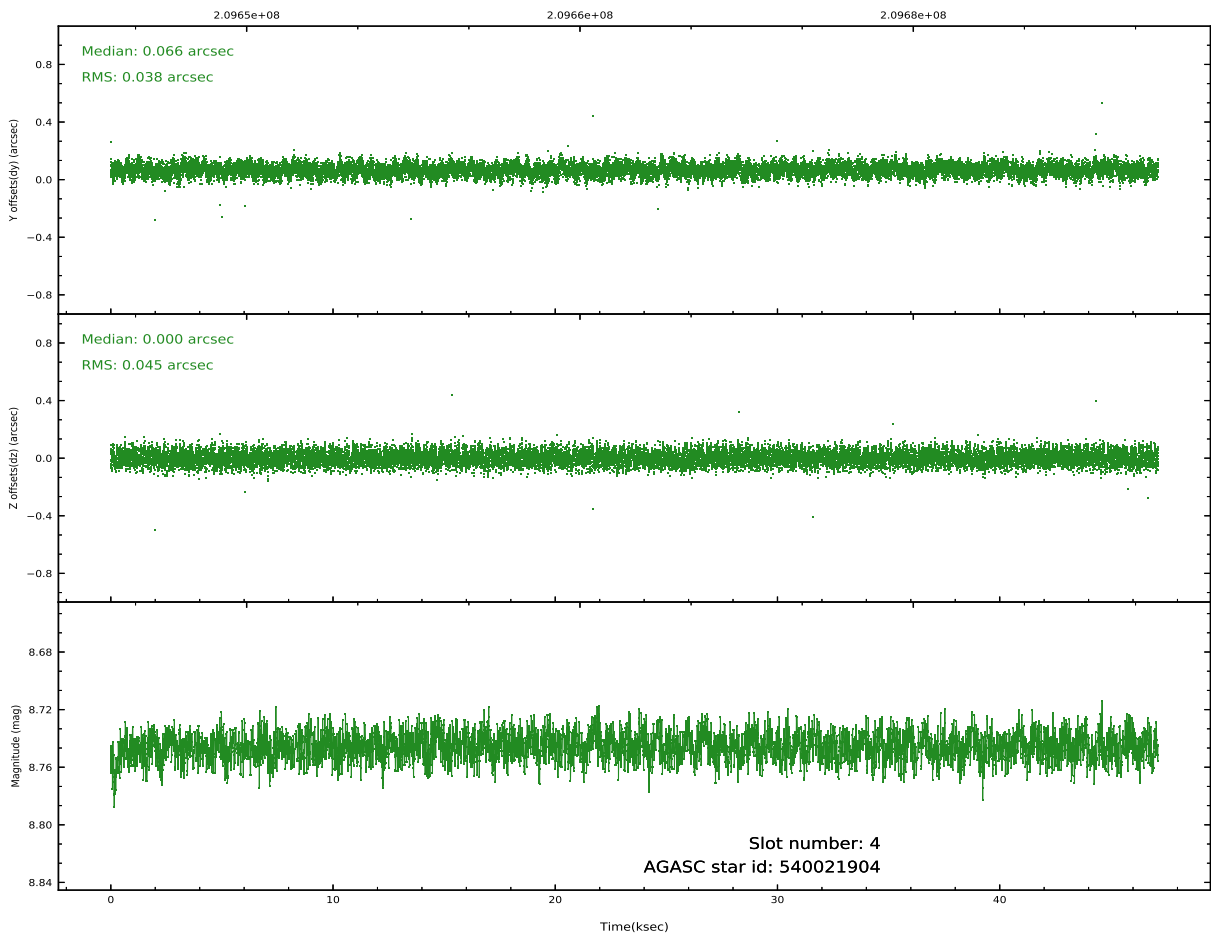
Time (s)



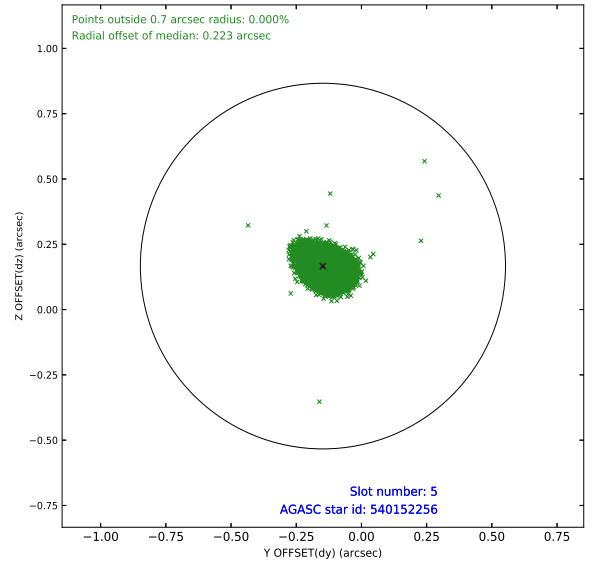
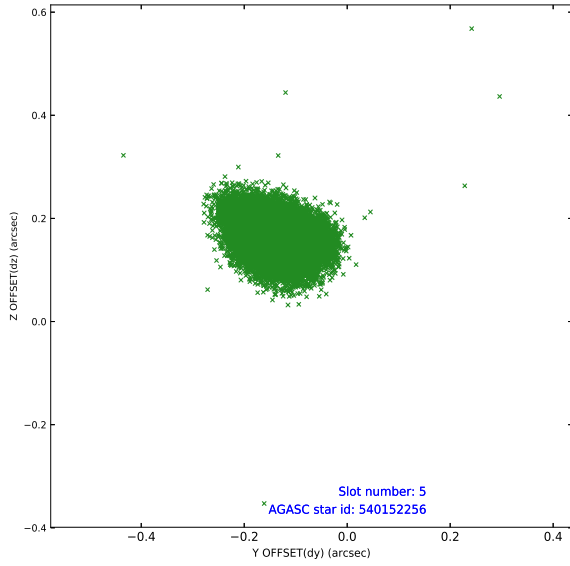
2.4.2 Slot 4



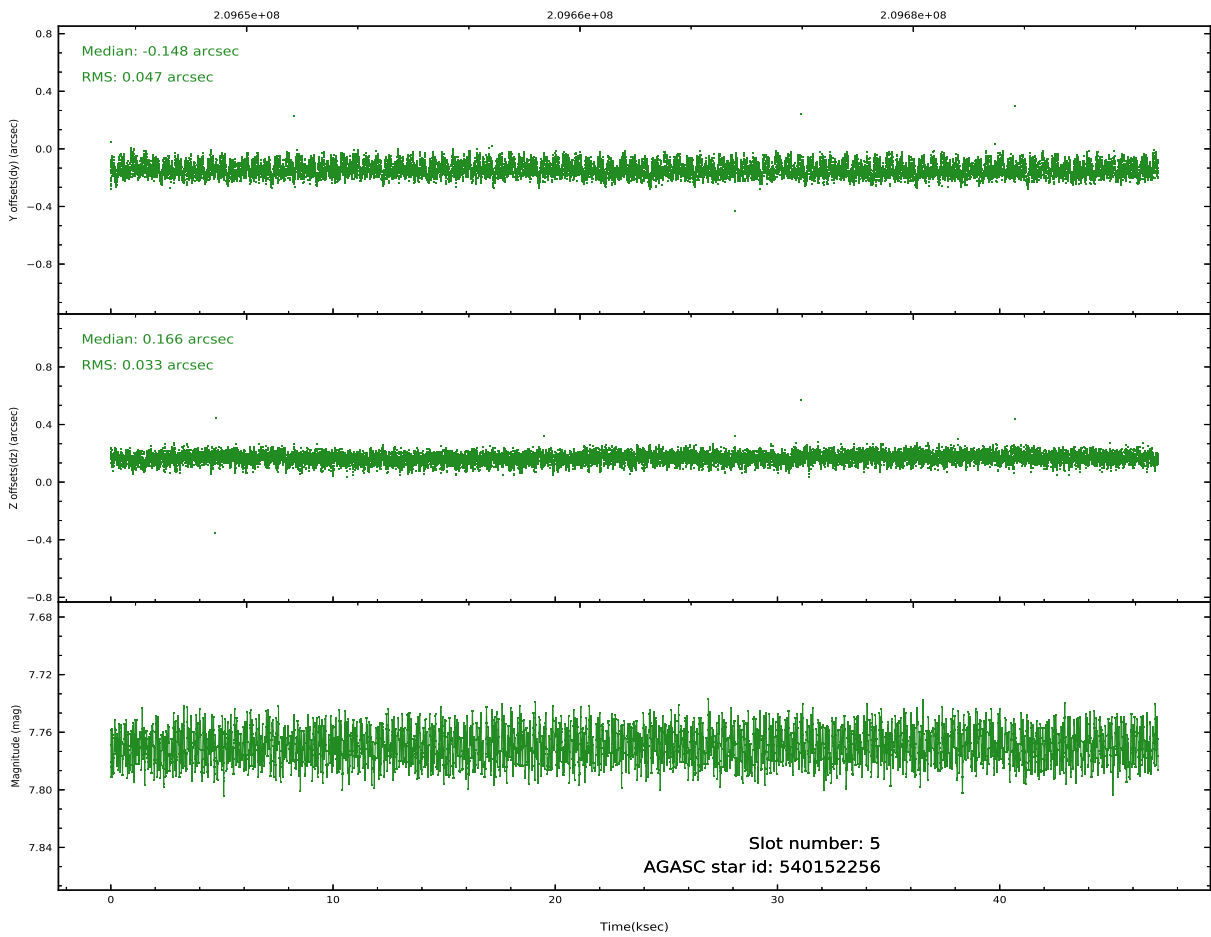
Time (s)



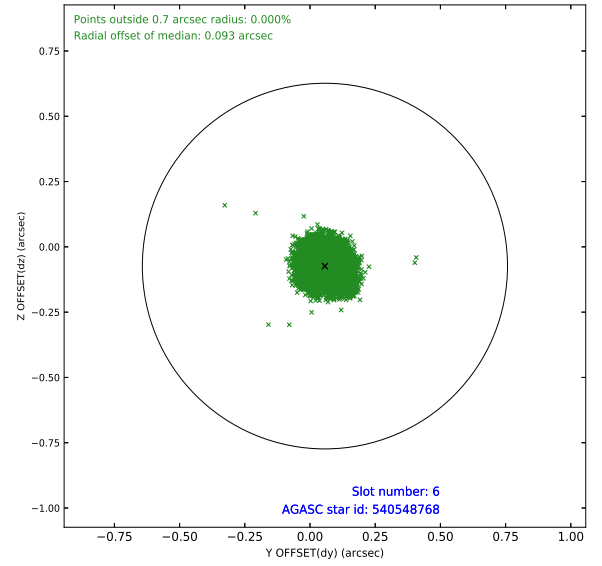
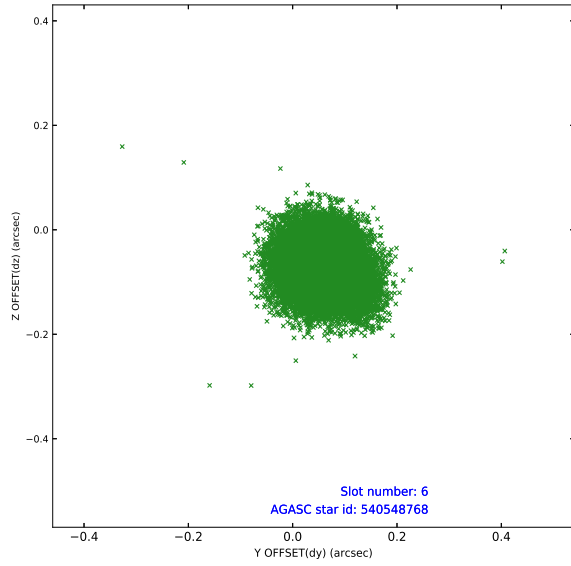
2.4.3 Slot 5



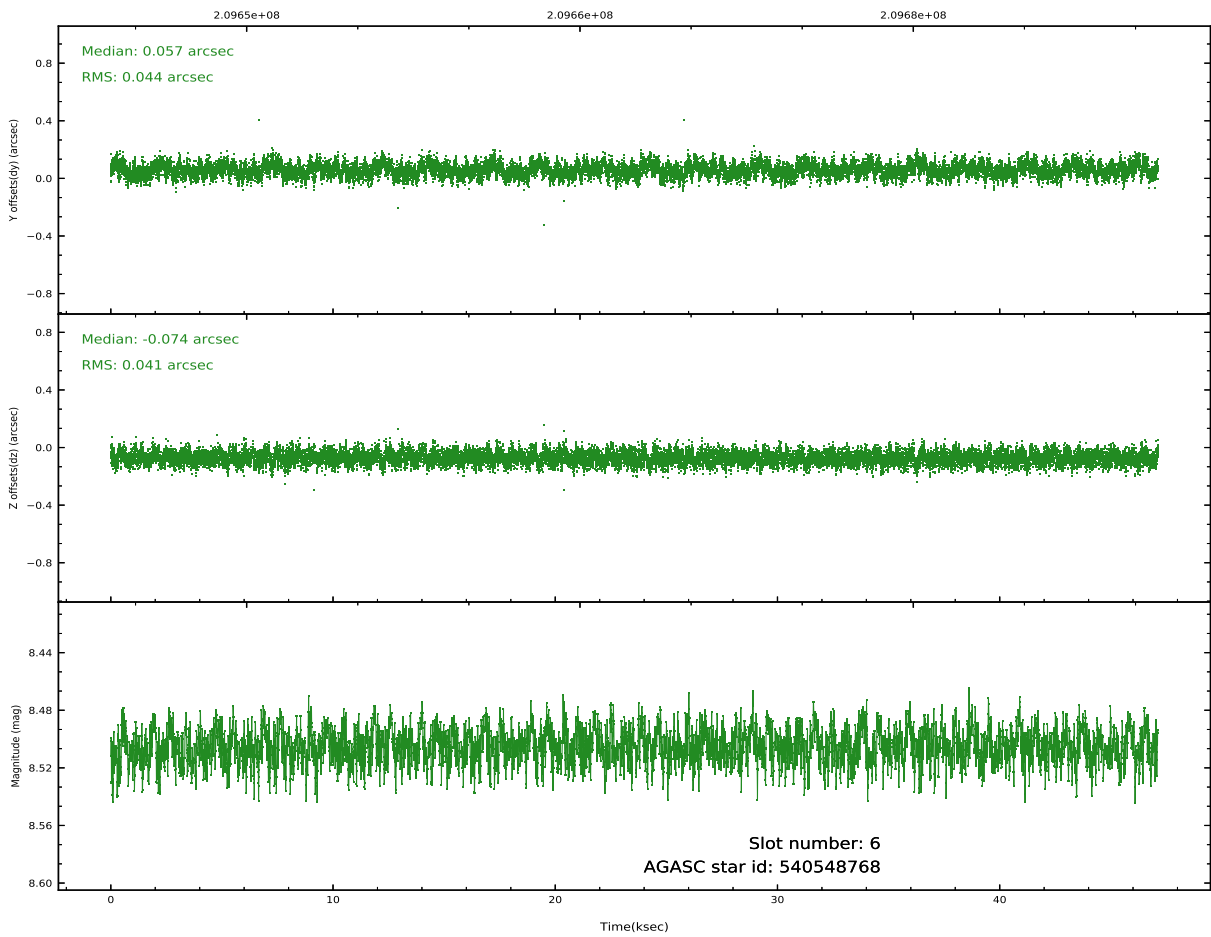
Time (s)



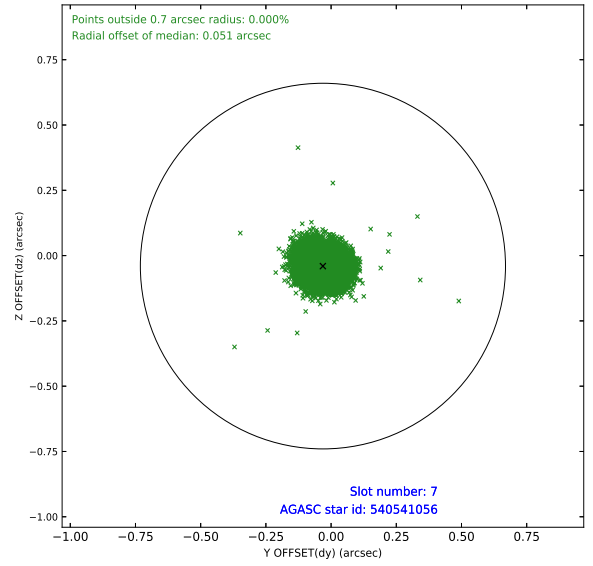
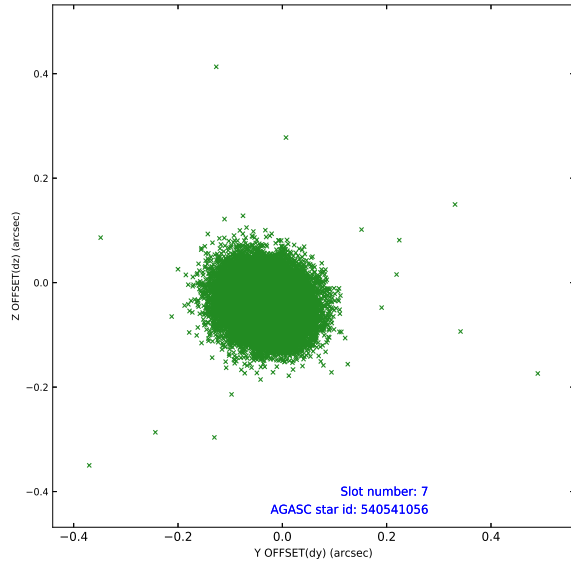
2.4.4 Slot 6



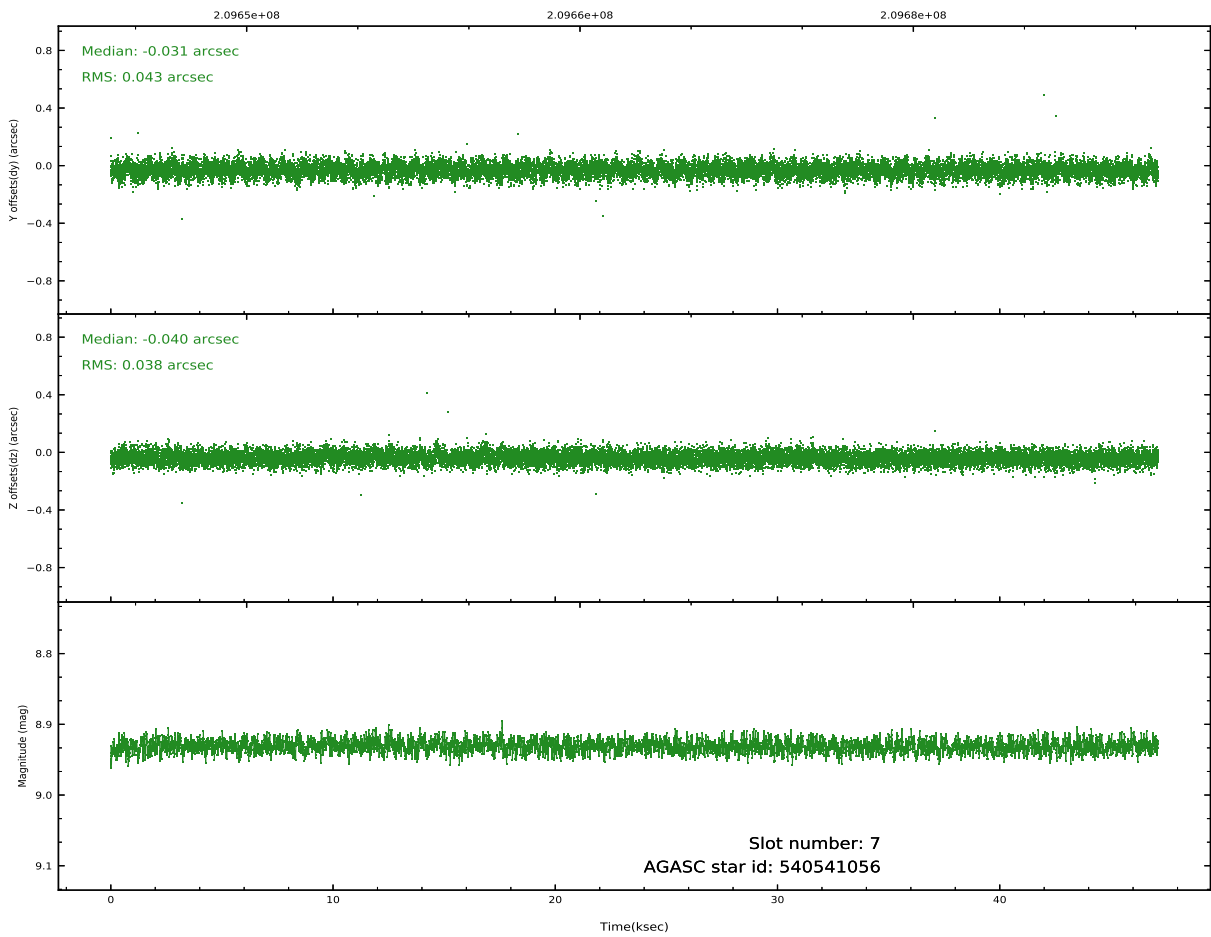
Time (s)



2.4.5 Slot 7

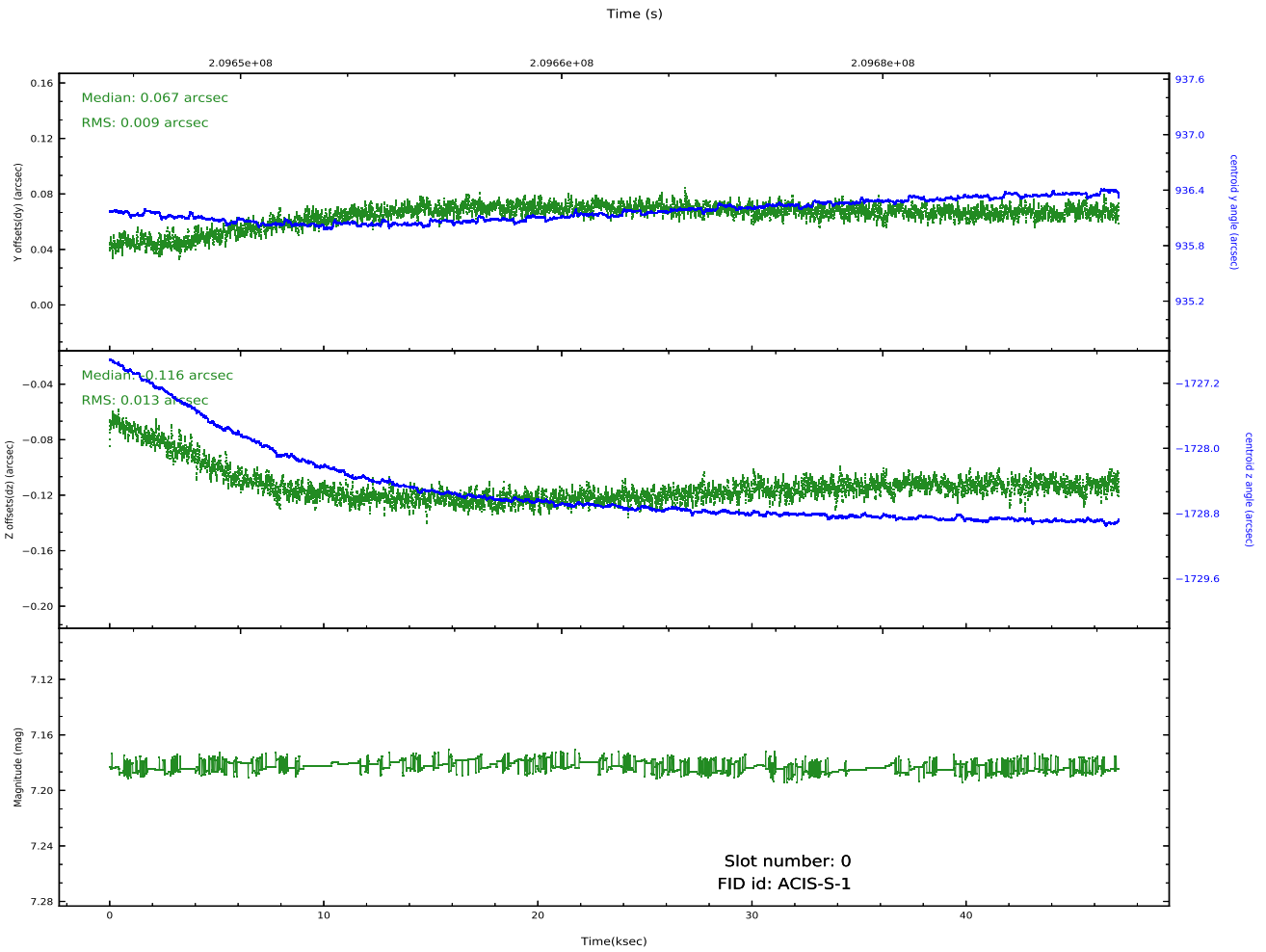
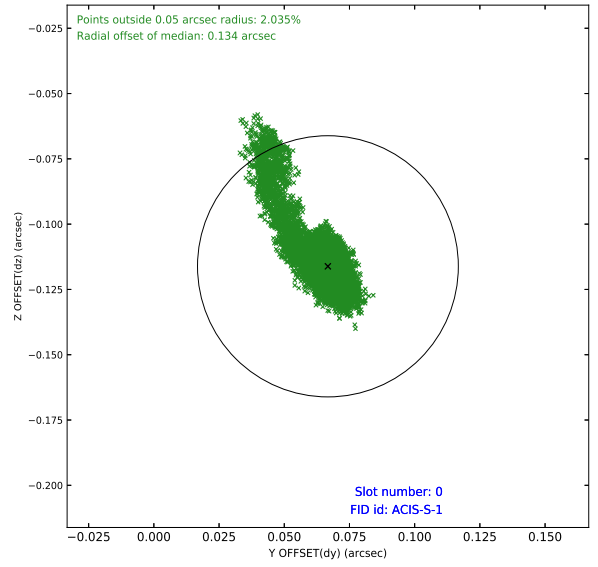
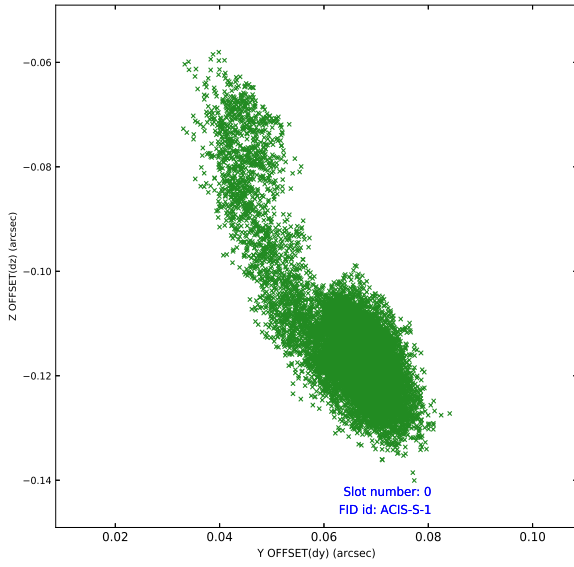


Time (s)

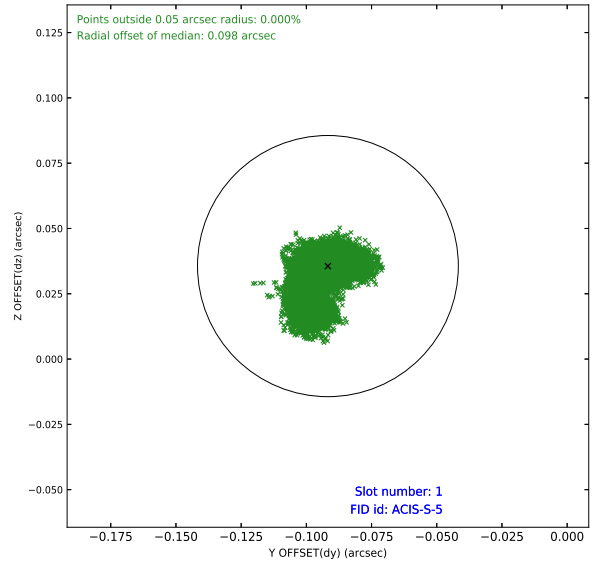
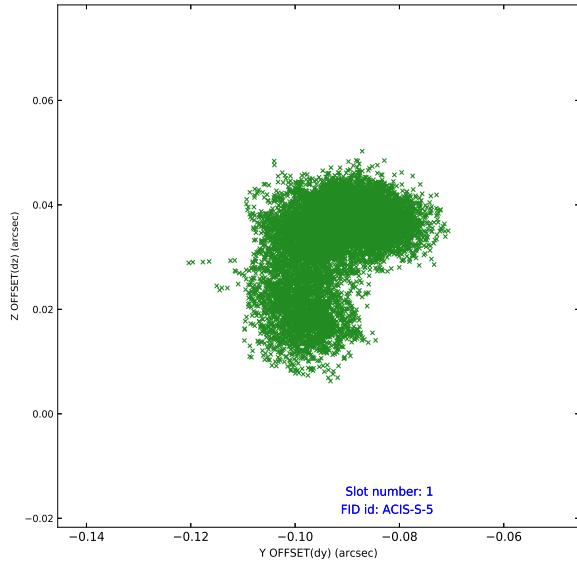


2.5 FID Slots

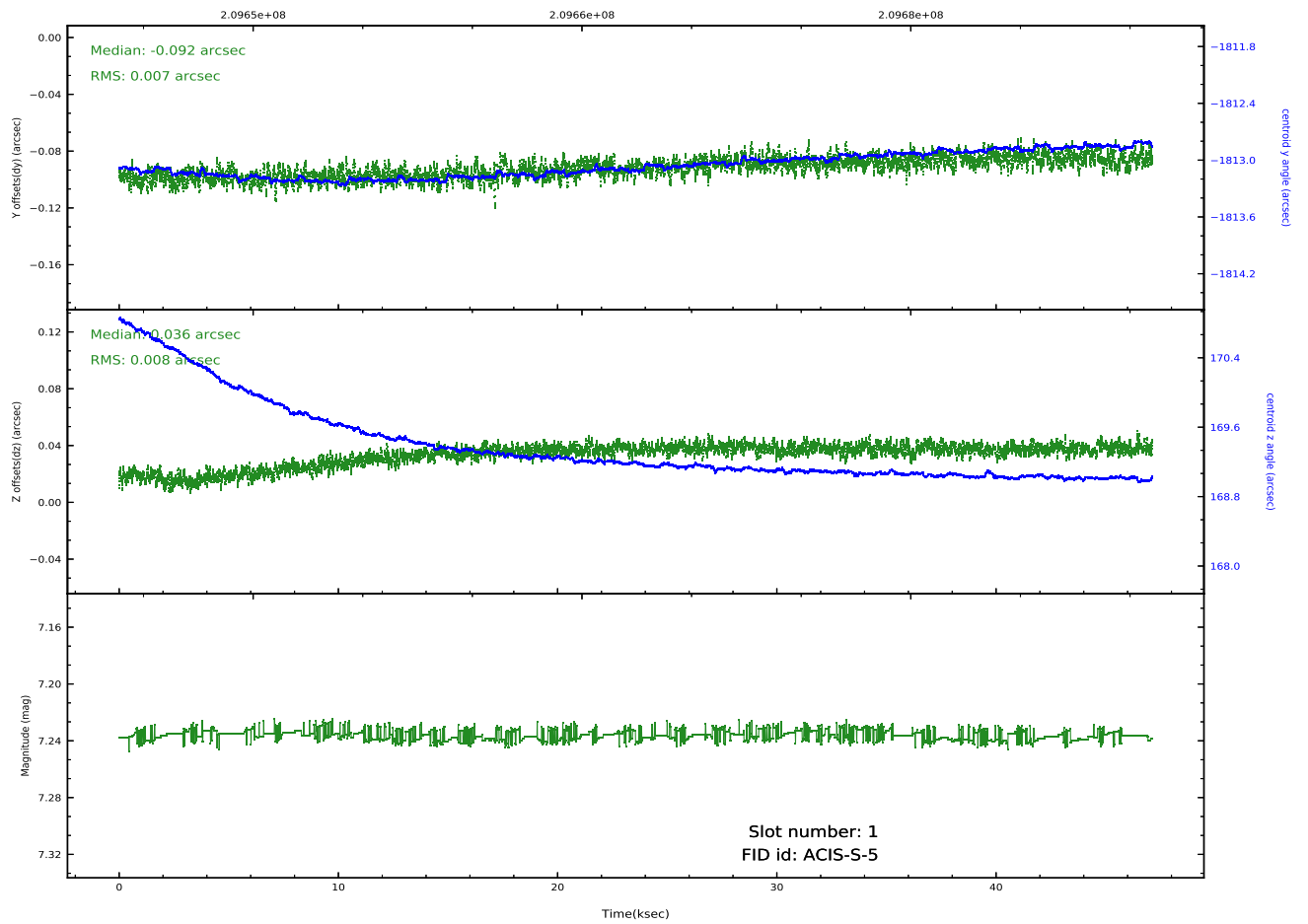
2.5.1 Slot 0



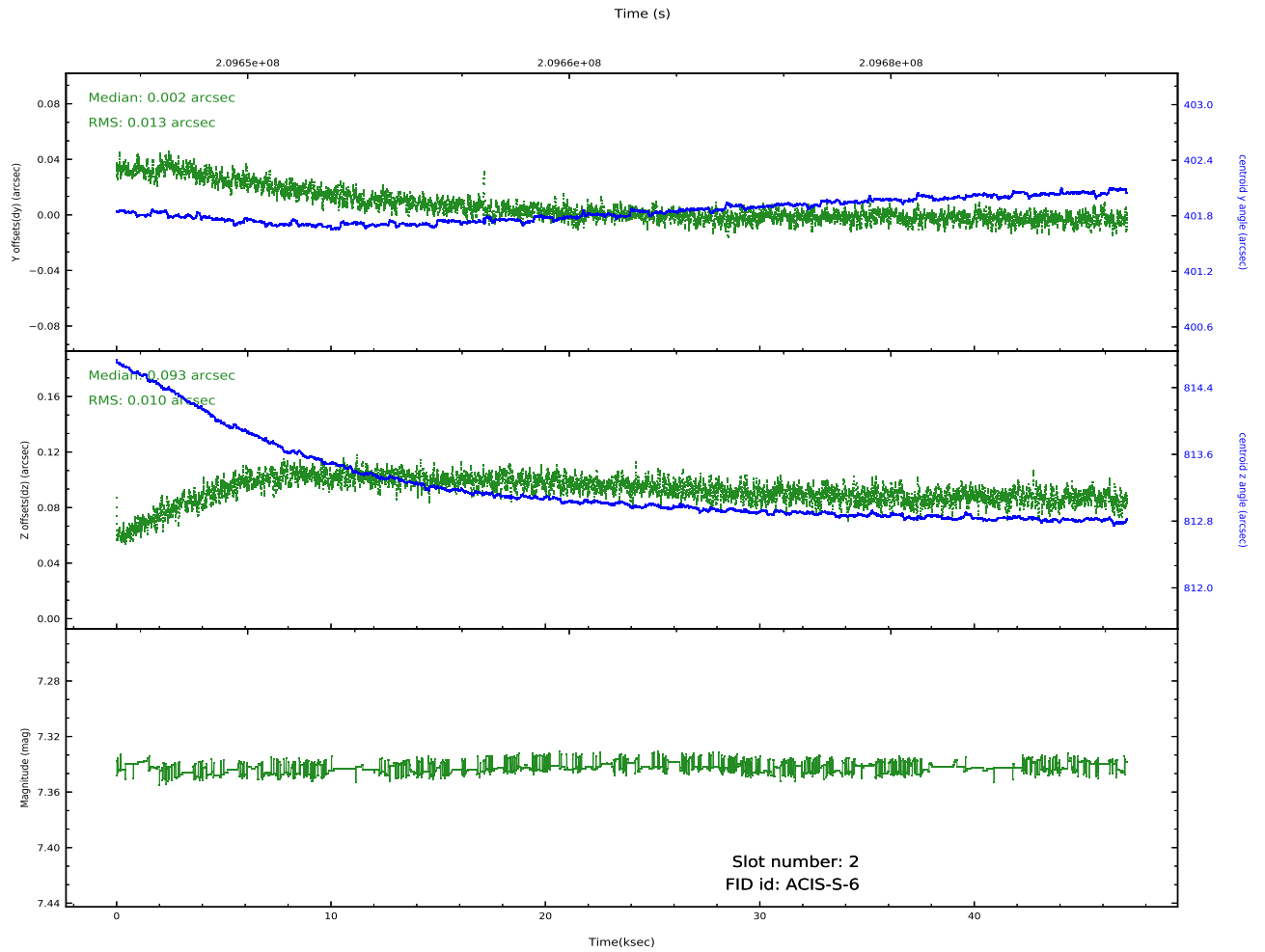
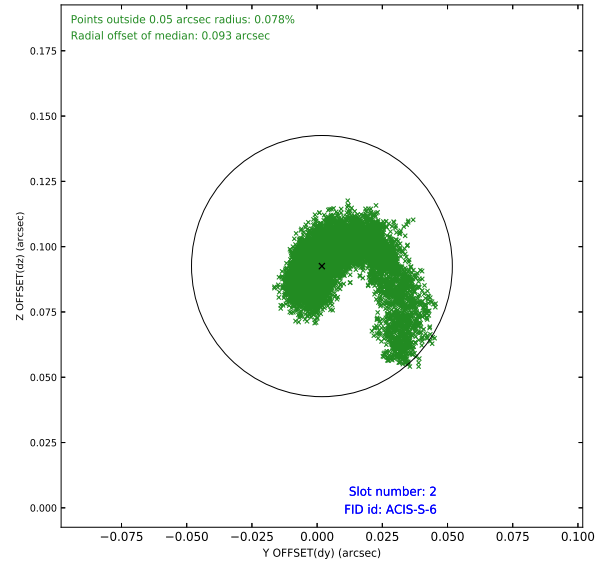
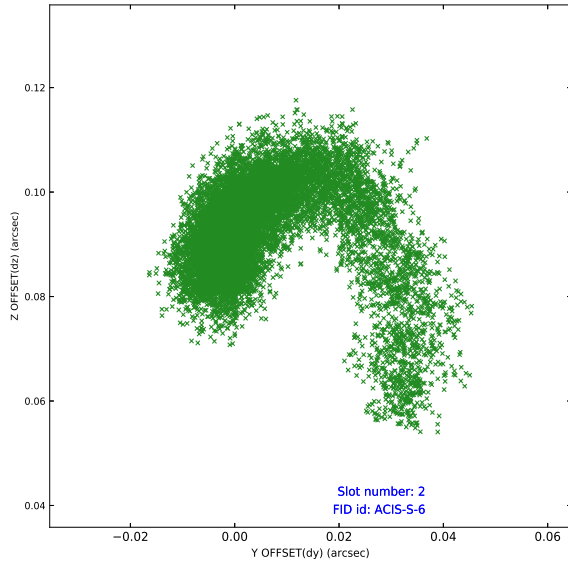
2.5.2 Slot 1



Time (s)



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2020.09.29
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	47.119

A.2 Comments