

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 3853 - L2 Version 4
Chandra X-Ray Center

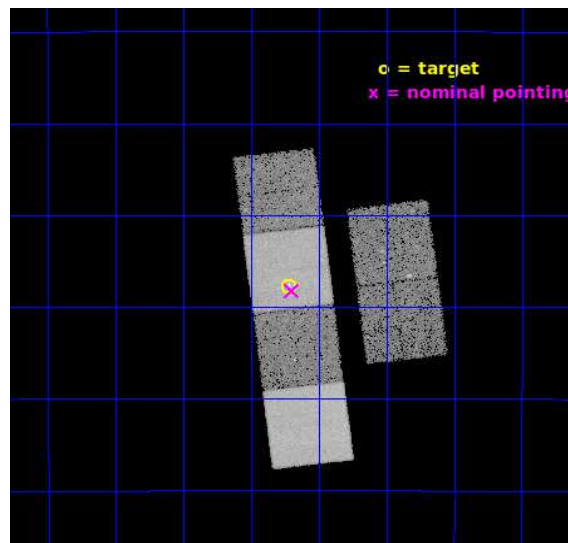
L2 Processing Date : Sep 27 2020

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

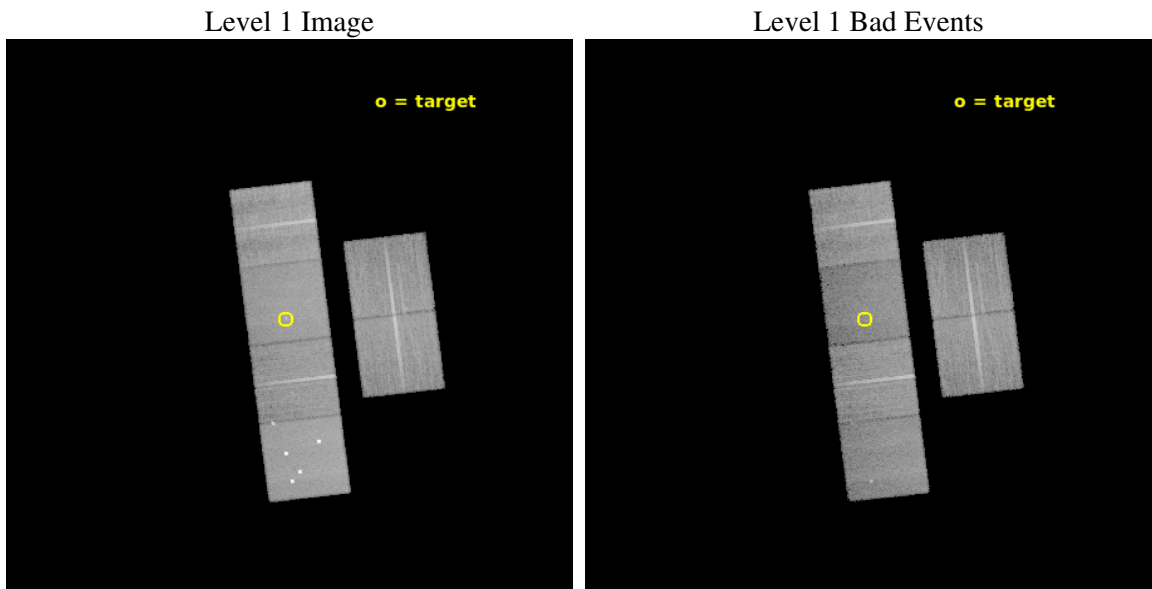
seq_num	500332	Sequence number
obs_id	3853	Observation id
title	X-RAY EMISSION FROM YOUNG RADIO PULSARS DISCOVERED IN THE PARKES MULTIBEAM SURVEY	Proposal title
observer	Dr. Divas Sanwal	Principal investigator
object	PSR J1809-1917	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	272.43	Observer's specified target RA [deg]
dec_targ	-19.296389	Observer's specified target Dec [deg]
ra_nom	272.42457214996	Nominal RA [deg]
dec_nom	-19.303821397237	Nominal Dec [deg]
roll_nom	263.0370640703	Nominal Roll [deg]
revision	4	Processing version of data
ontime	19955.199925661	Sum of GTIs [s]
livetime	19702.515168624	Livetime [s]
ontime2	19951.958955377	Sum of GTIs [s]
ontime3	19955.16933921	Sum of GTIs [s]
ontime5	19955.199925661	Sum of GTIs [s]
ontime6	19951.95893538	Sum of GTIs [s]
ontime7	19955.199925661	Sum of GTIs [s]
ontime8	19951.887308955	Sum of GTIs [s]
l2events	188480	Number of level 2 events



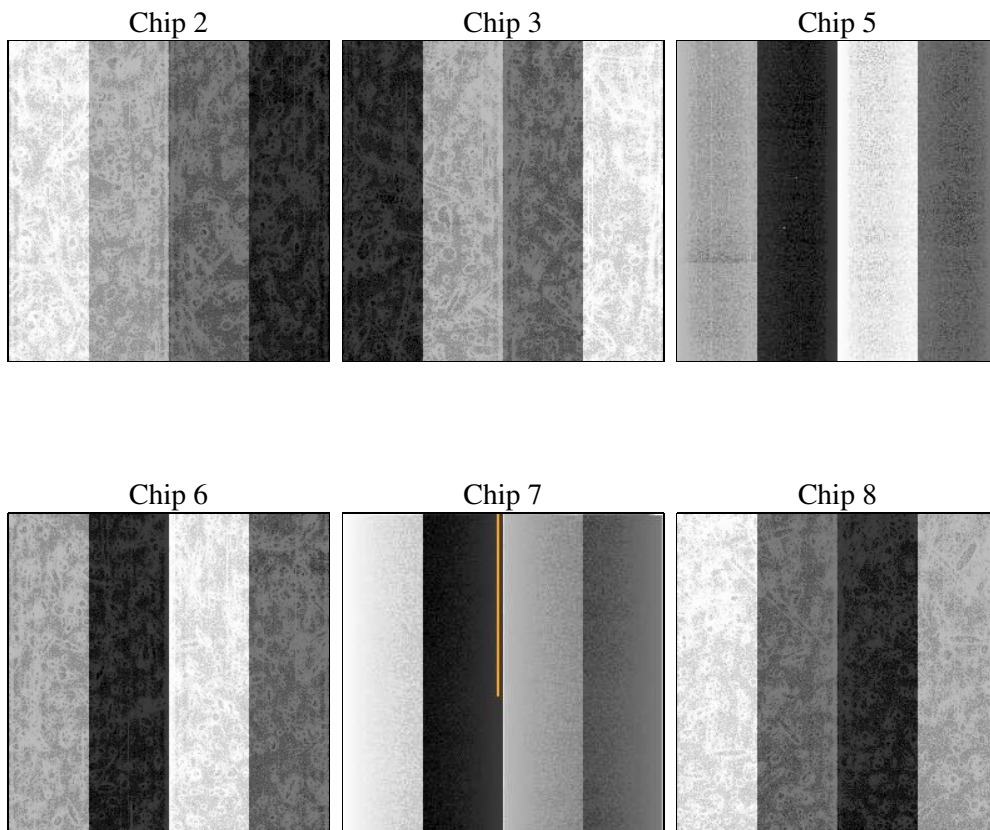
2 OBI

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	19955.199925661	Sum of GTIs [s]
caldbver	4.9.2	 	ontime2	19951.958955377	Sum of GTIs [s]
date	2020-09-27T13:08:21	Date and time of file creation	ontime3	19955.16933921	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	19955.199925661	Sum of GTIs [s]
			ontime6	19951.95893538	Sum of GTIs [s]
			ontime7	19955.199925661	Sum of GTIs [s]
			ontime8	19951.887308955	Sum of GTIs [s]
			l1events	846762	Number of level 1 events

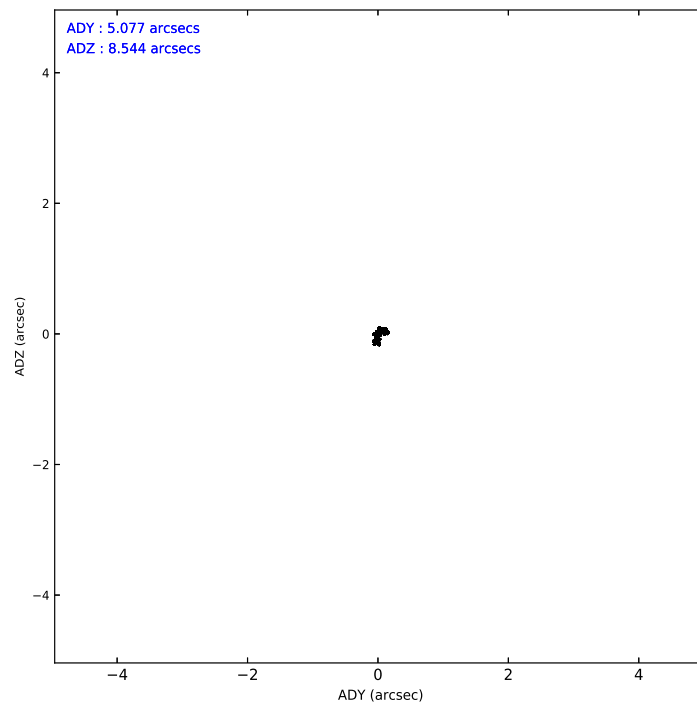
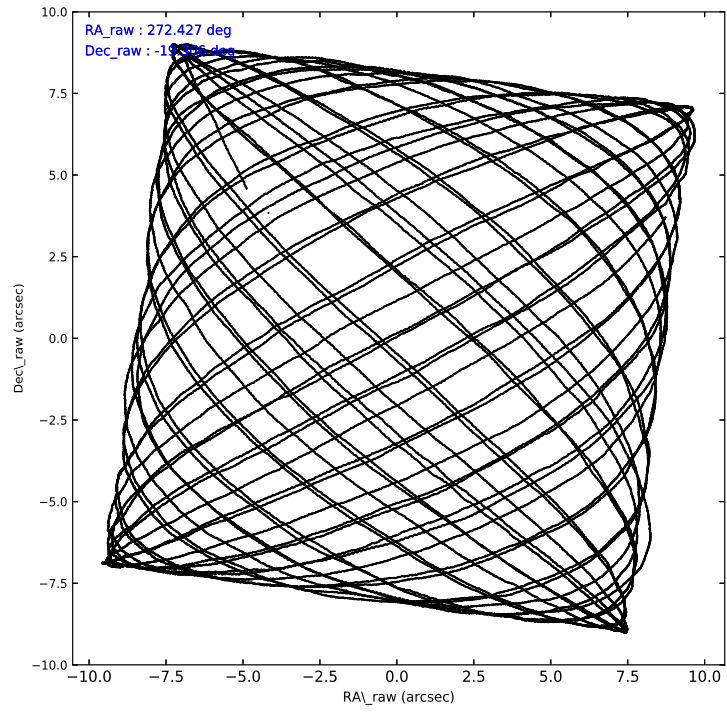
2.1.4 Events

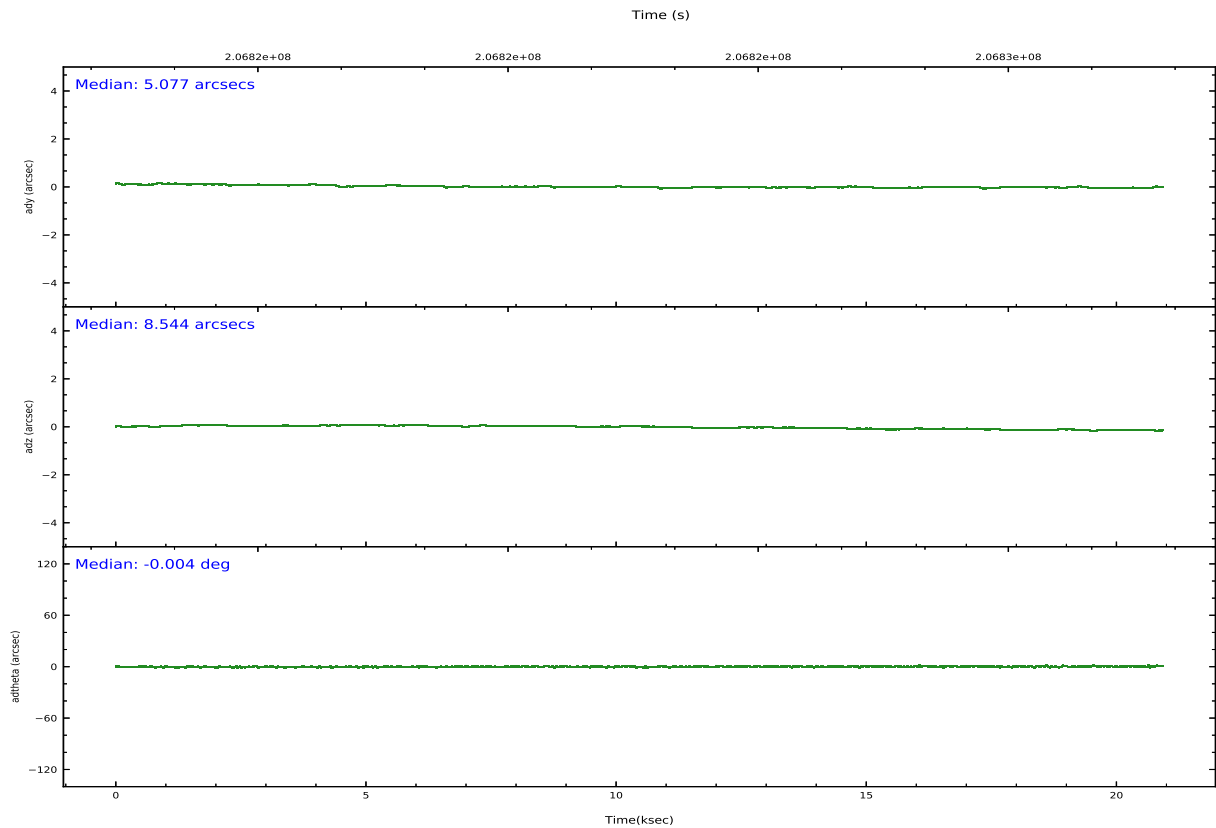
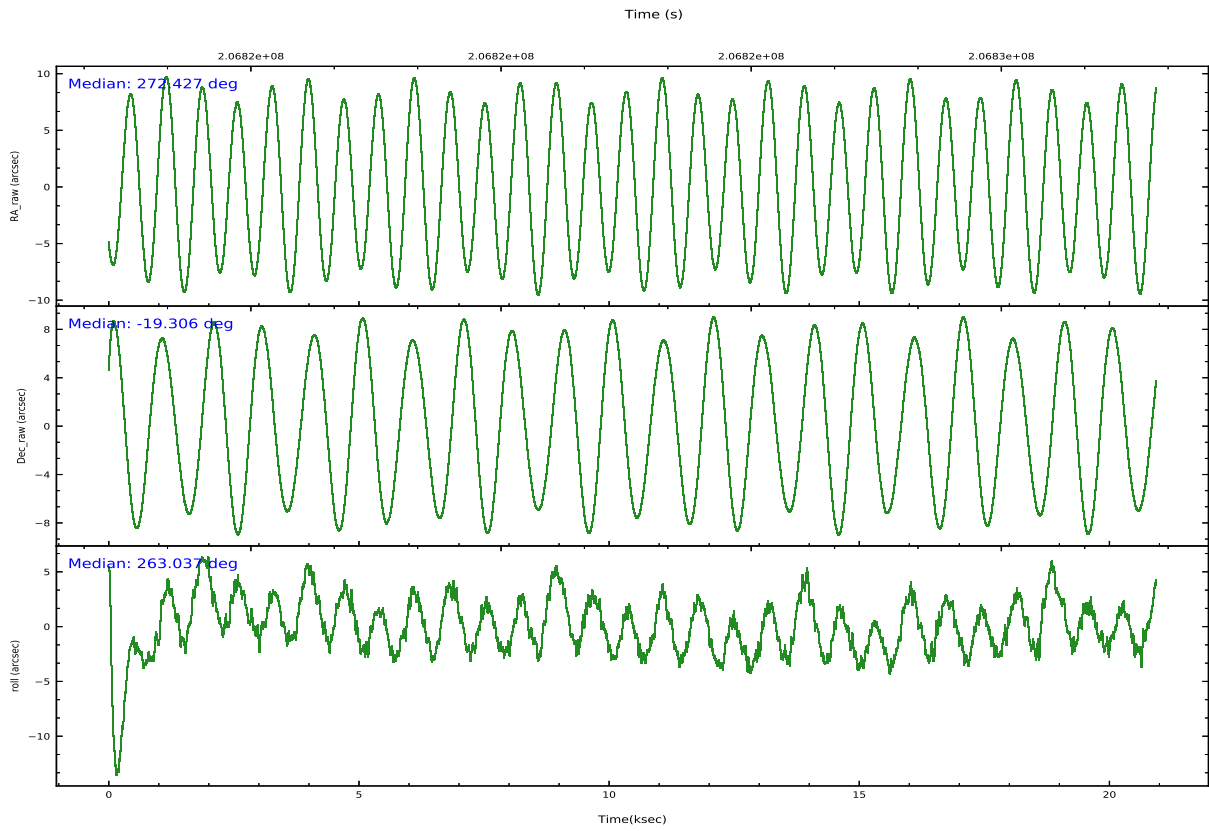
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	129642	120290	180182	125477	136716	154455	grade 0 events	5316	5602	23444	7012	6607	11851
rejected events	116669	107188	82441	109736	71702	118498		4%	4%	13%	5%	4%	7%
rejected %	89%	89%	45%	87%	52%	76%	grade 1 events	77	60	604	76	115	127
								0%	0%	0%	0%	0%	0%
							grade 2 events	2755	2438	25386	3005	13243	7672
								2%	2%	14%	2%	9%	4%
							grade 3 events	1360	1361	3325	1466	6275	3752
								1%	1%	1%	1%	4%	2%
							grade 4 events	1320	1366	3350	1476	6163	3538
								1%	1%	1%	1%	4%	2%
							grade 5 events	3949	4544	12323	4847	13658	6744
								3%	3%	6%	3%	9%	4%
							grade 6 events	2225	2343	42262	2789	32752	9166
								1%	1%	23%	2%	23%	5%
							grade 7 events	112640	102576	69488	104806	57903	111605
								86%	85%	38%	83%	42%	72%

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	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	272.415349	272.42457214996	Subarray requested	NONE	NONE
[deg] Pointing Dec	-19.280726	-19.303821397237	Alternating exposures requested	N	N
[deg] Pointing Roll	262.875245	263.0370640703	[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)	206813094.184000	206811753.84313			
Observation start date	2004-07-21T16:03:50	2004-07-21T15:42:33			
[s] Observation end time (MET)	206833094.184000	206834082.44412			
Observation end date	2004-07-21T21:37:10	2004-07-21T21:54:42			
Read mode	TIMED	TIMED			

2.3 Aspect





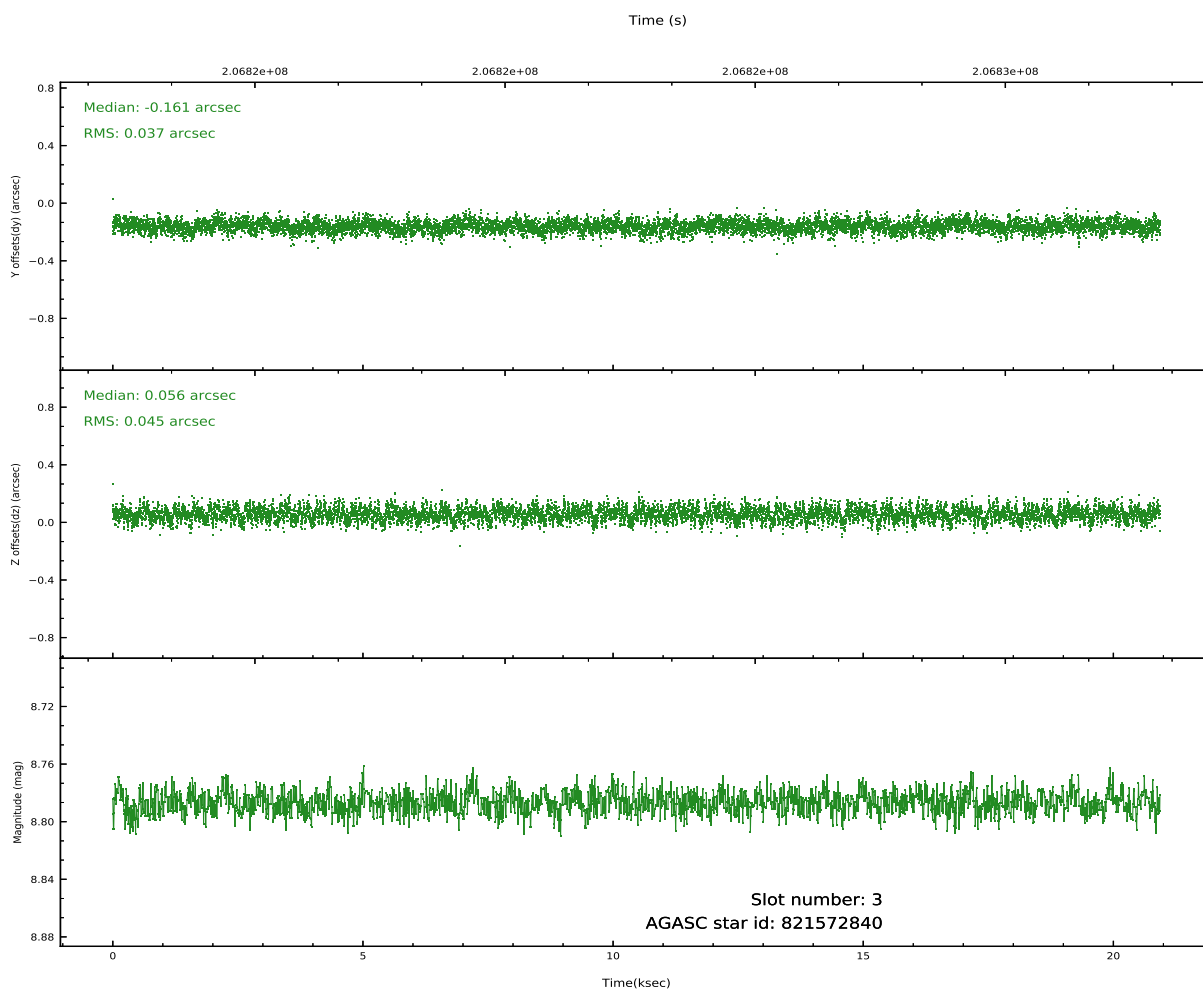
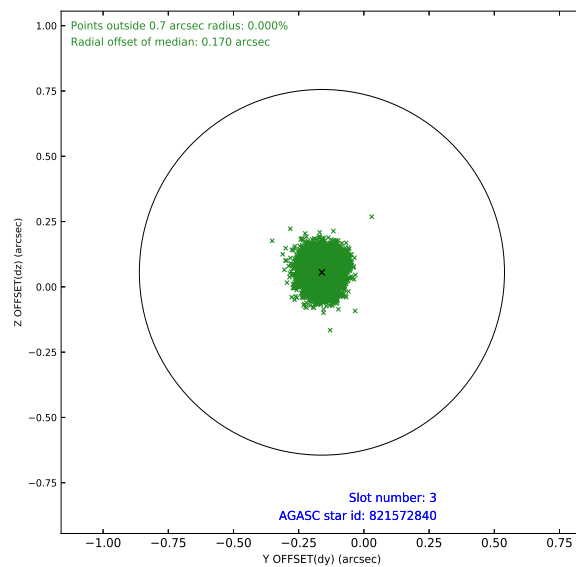
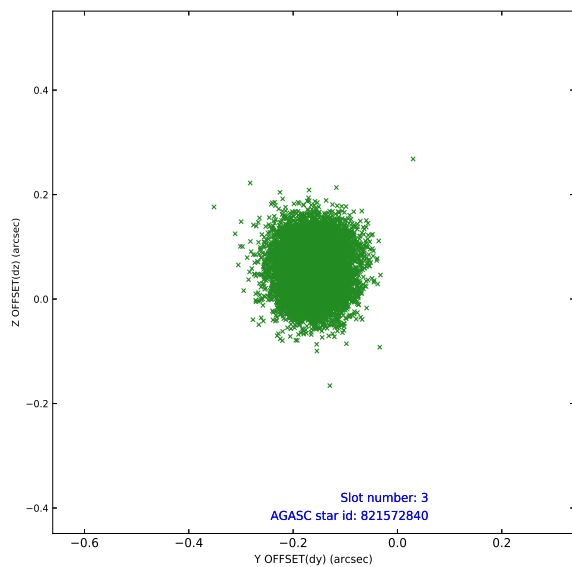
Slot Statistics

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	5106	1.000	0.011	-0.013	0.007	0.012	0.000000	0.000000	938.21	-1725
1	FID		ACIS-S-2	7.11	5106	1.000	-0.130	-0.064	0.006	0.011	0.000000	0.000000	-757.74	-1730
2	FID		ACIS-S-4	7.20	5106	1.000	0.094	0.083	0.006	0.010	0.000000	0.000000	2155.50	178
3	GUIDE	used	821572840	8.79	10208	1.000	-0.161	0.056	0.062	0.100	272.287378	-18.702558	-2010.82	-690
4	GUIDE	used	822085152	9.02	10213	1.000	-0.029	0.043	0.076	0.123	272.974056	-19.057083	-1031.68	1787
5	GUIDE	used	822090352	8.62	10209	1.000	-0.021	-0.122	0.080	0.131	272.203907	-18.976234	-997.76	-849
6	GUIDE	used	822100176	8.47	10211	1.000	0.038	-0.034	0.076	0.120	272.112888	-19.868886	2229.24	-753
7	GUIDE	used	822098736	8.51	10211	1.000	0.164	0.057	0.067	0.107	272.269355	-19.875225	2185.93	-224

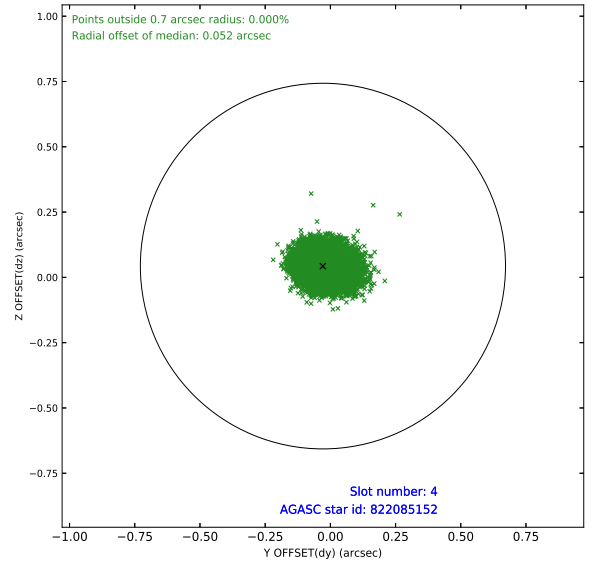
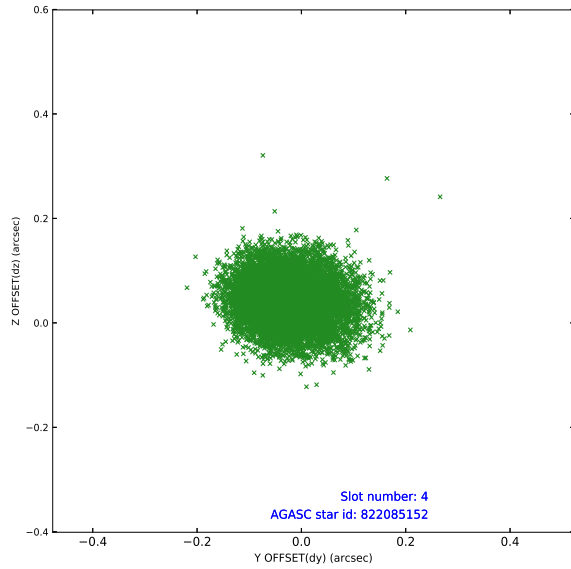
∞

2.4 Star Slots

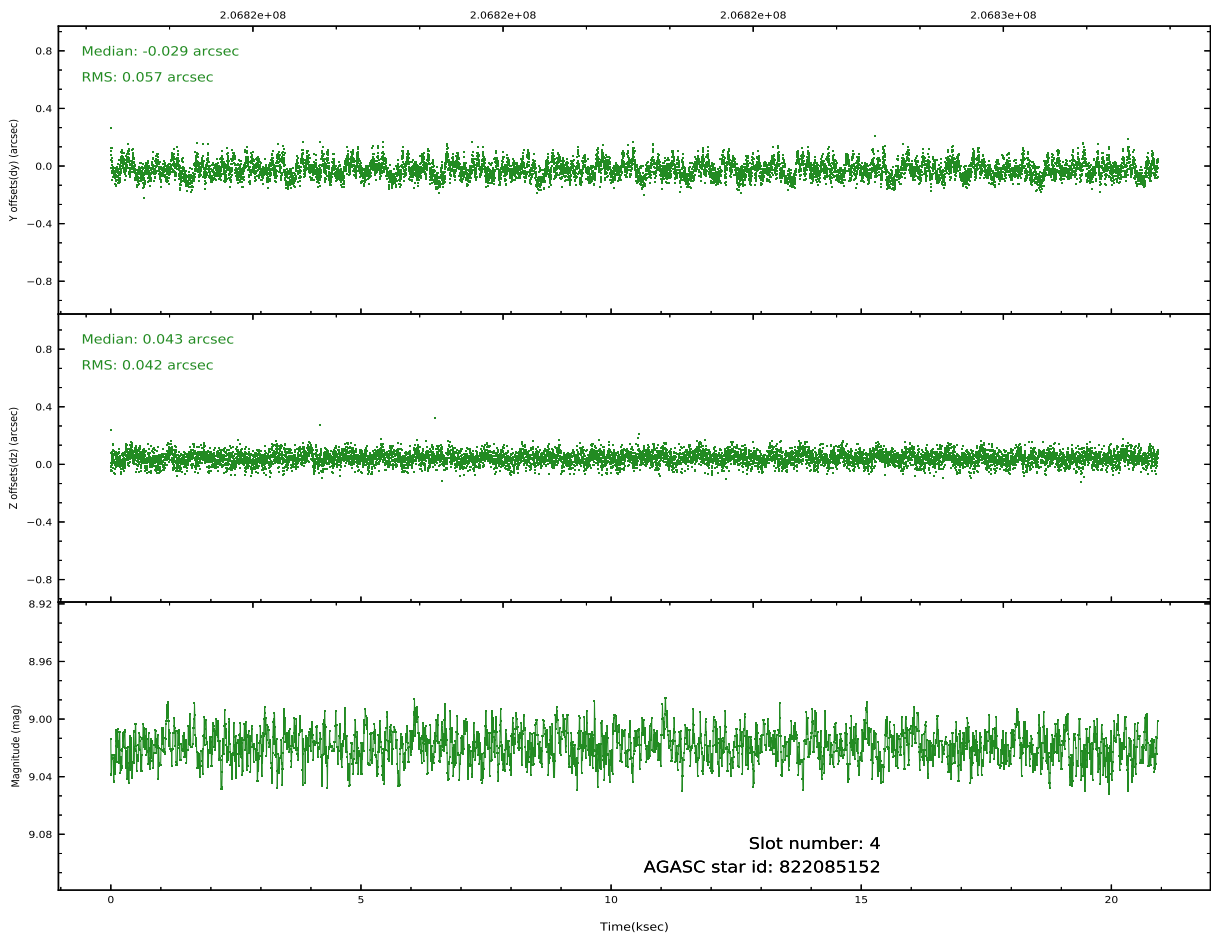
2.4.1 Slot 3



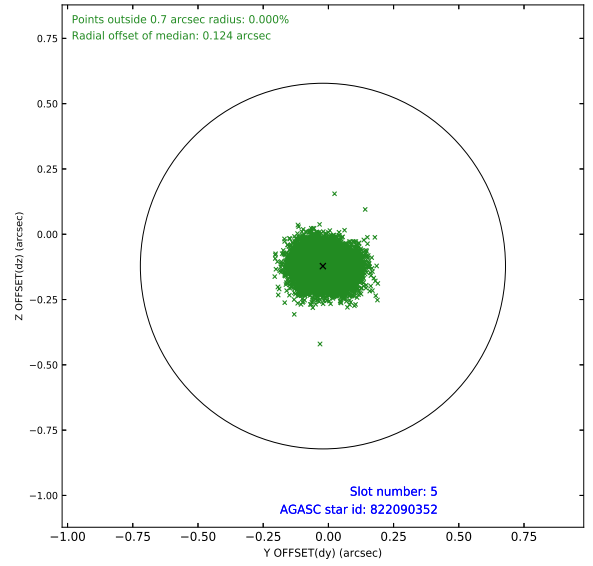
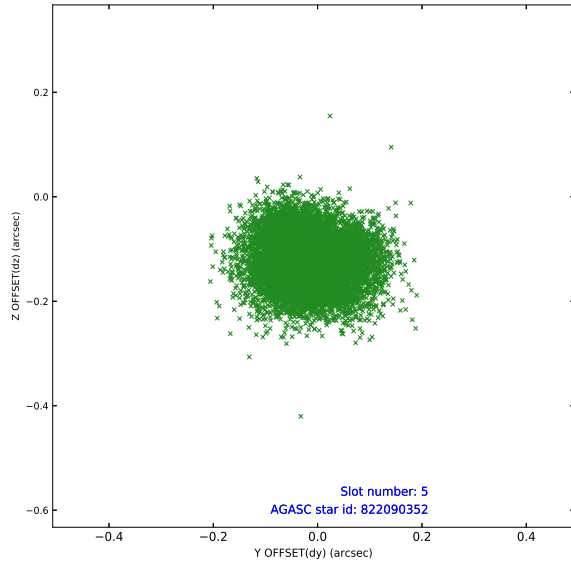
2.4.2 Slot 4



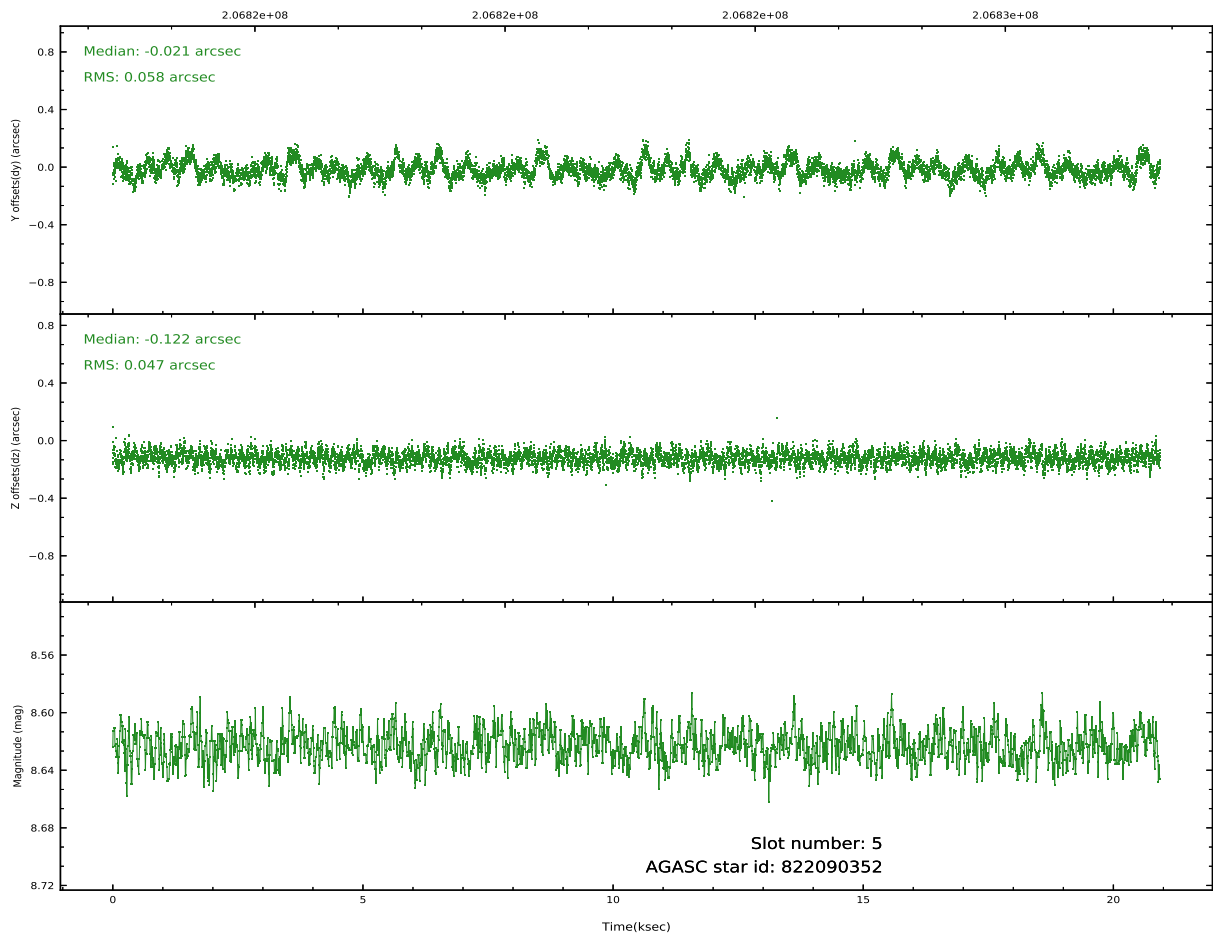
Time (s)



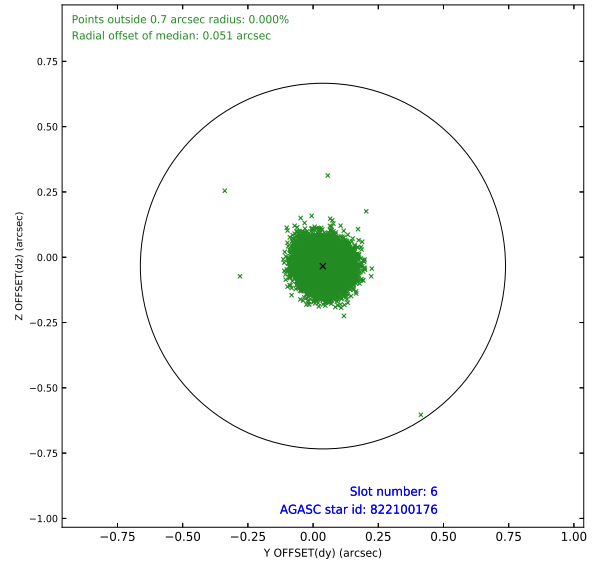
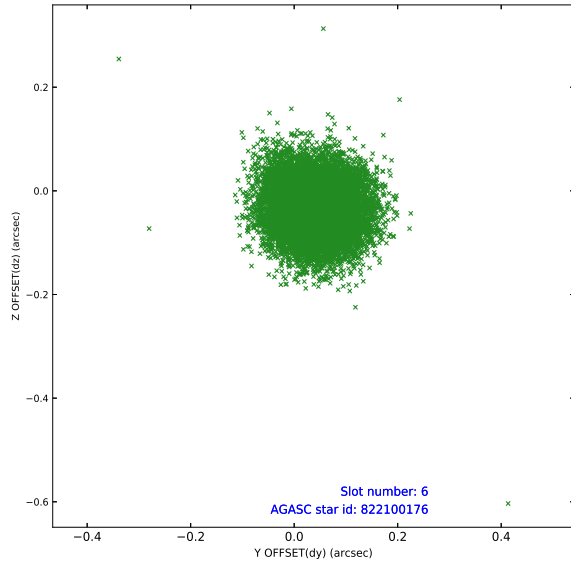
2.4.3 Slot 5



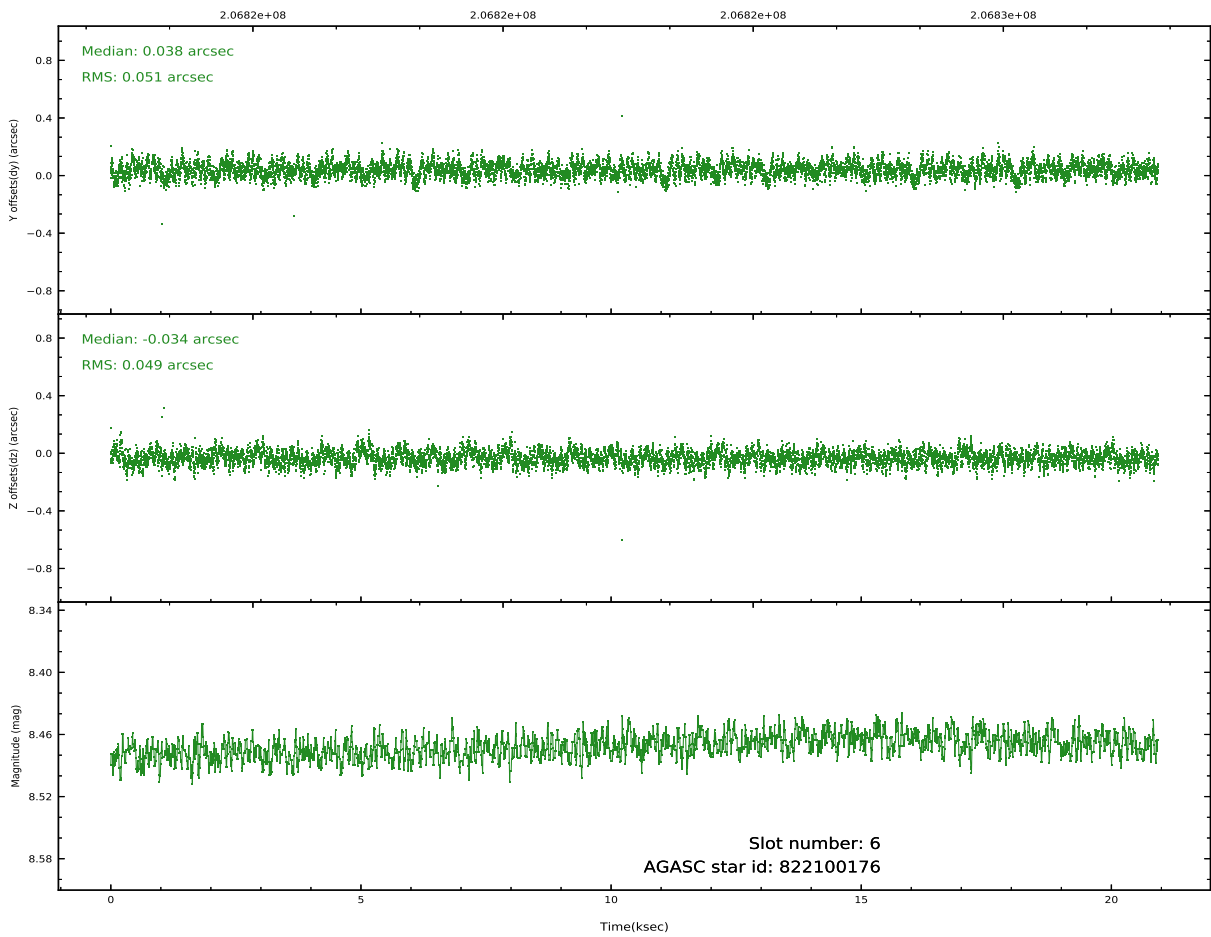
Time (s)



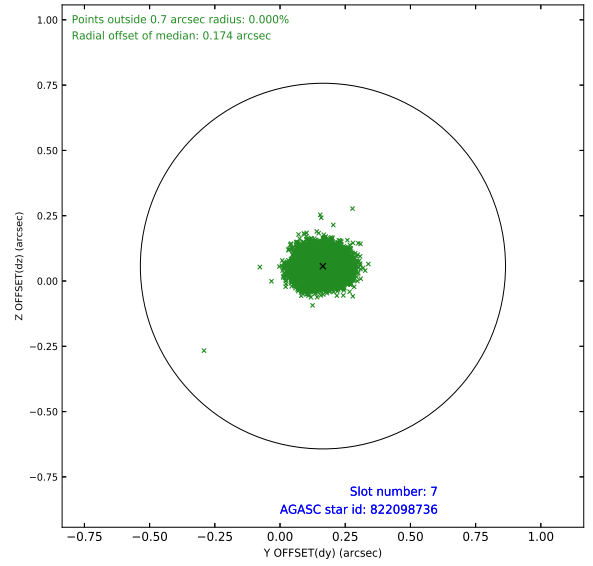
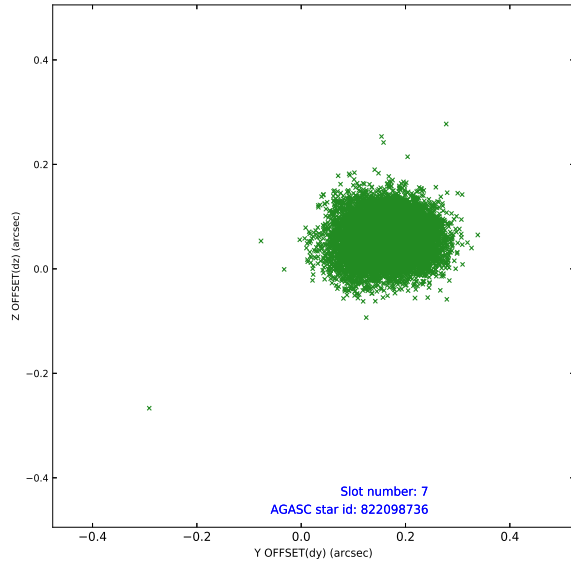
2.4.4 Slot 6



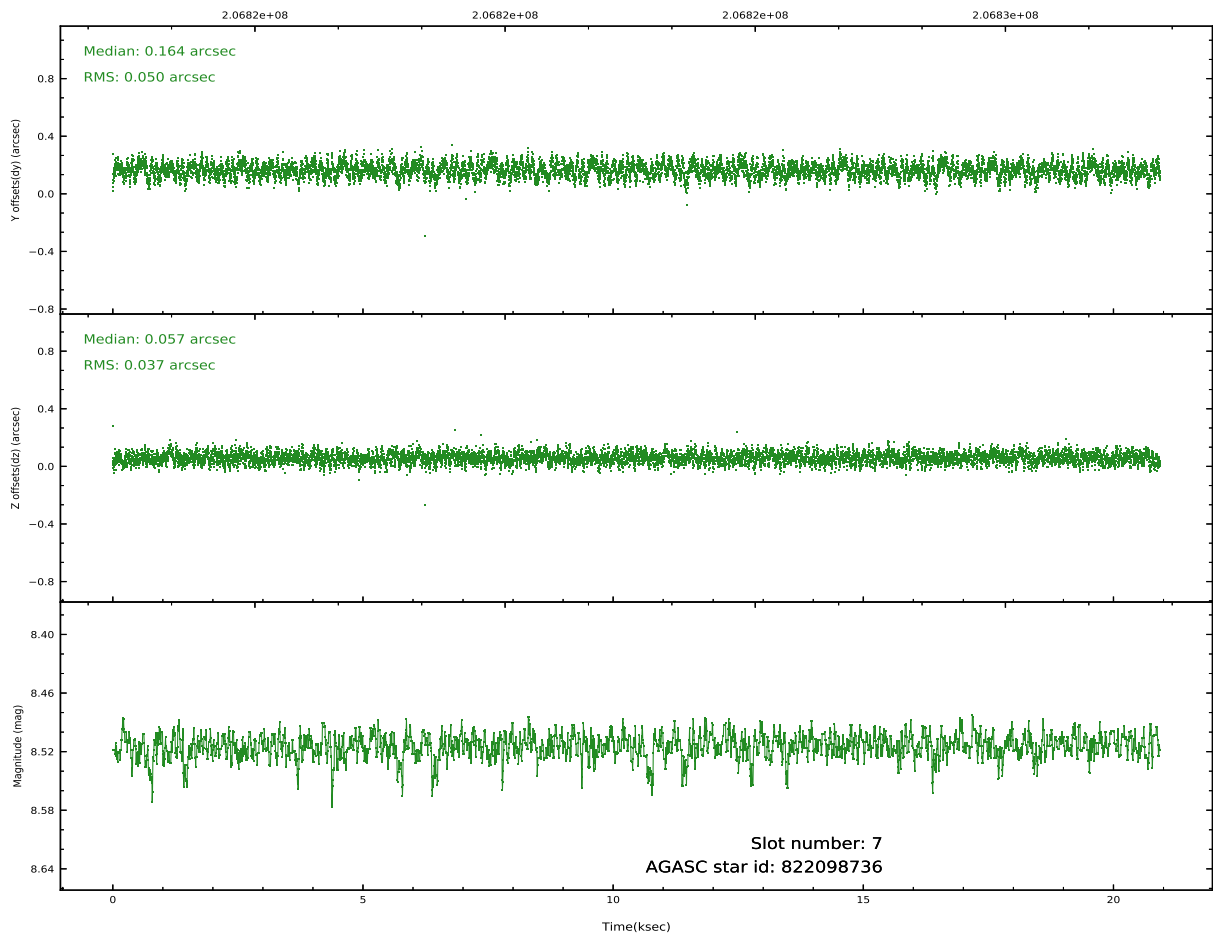
Time (s)



2.4.5 Slot 7

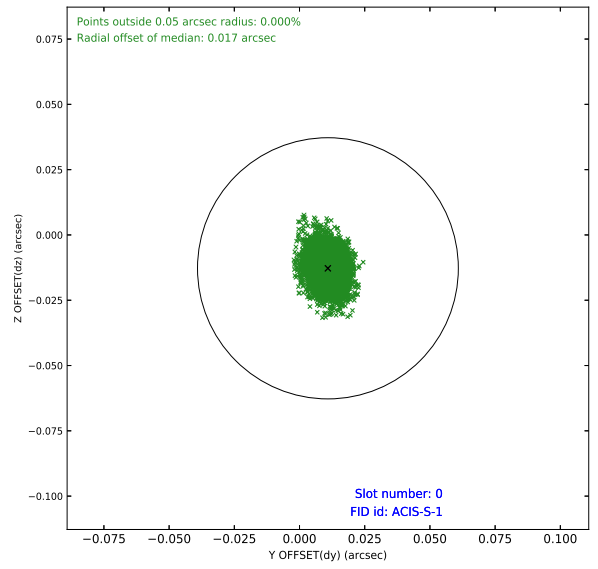
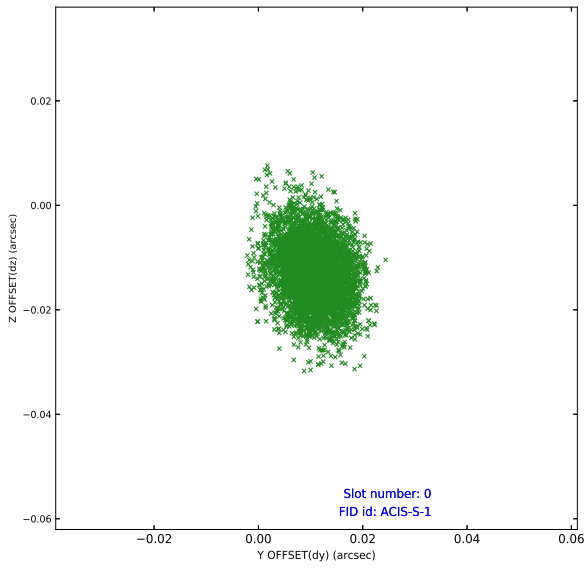


Time (s)

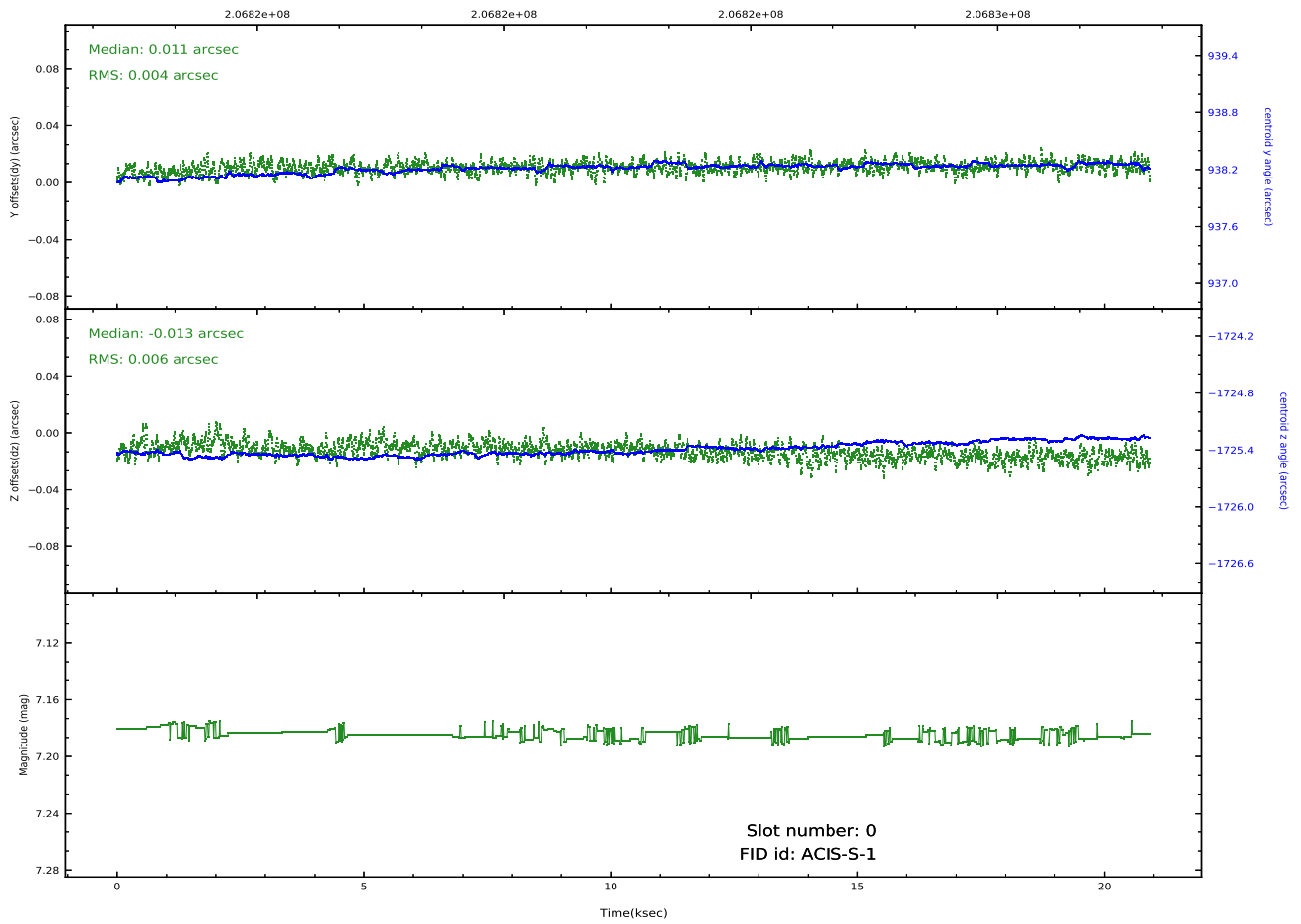


2.5 FID Slots

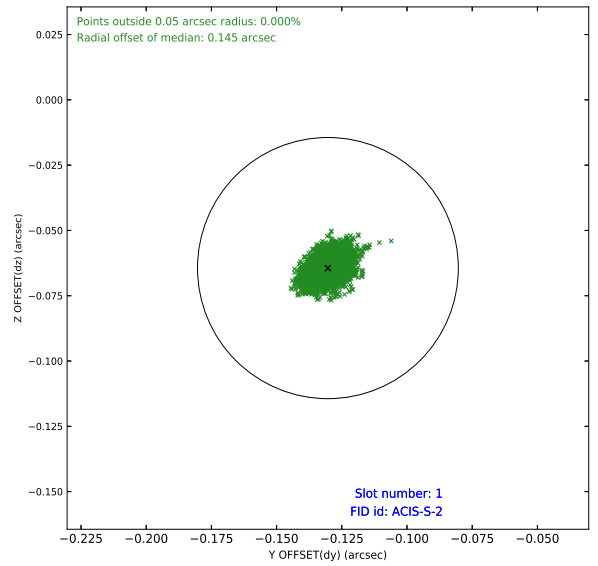
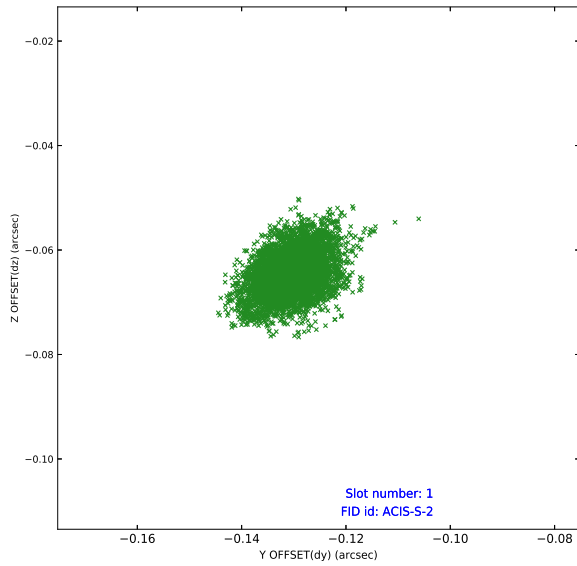
2.5.1 Slot 0



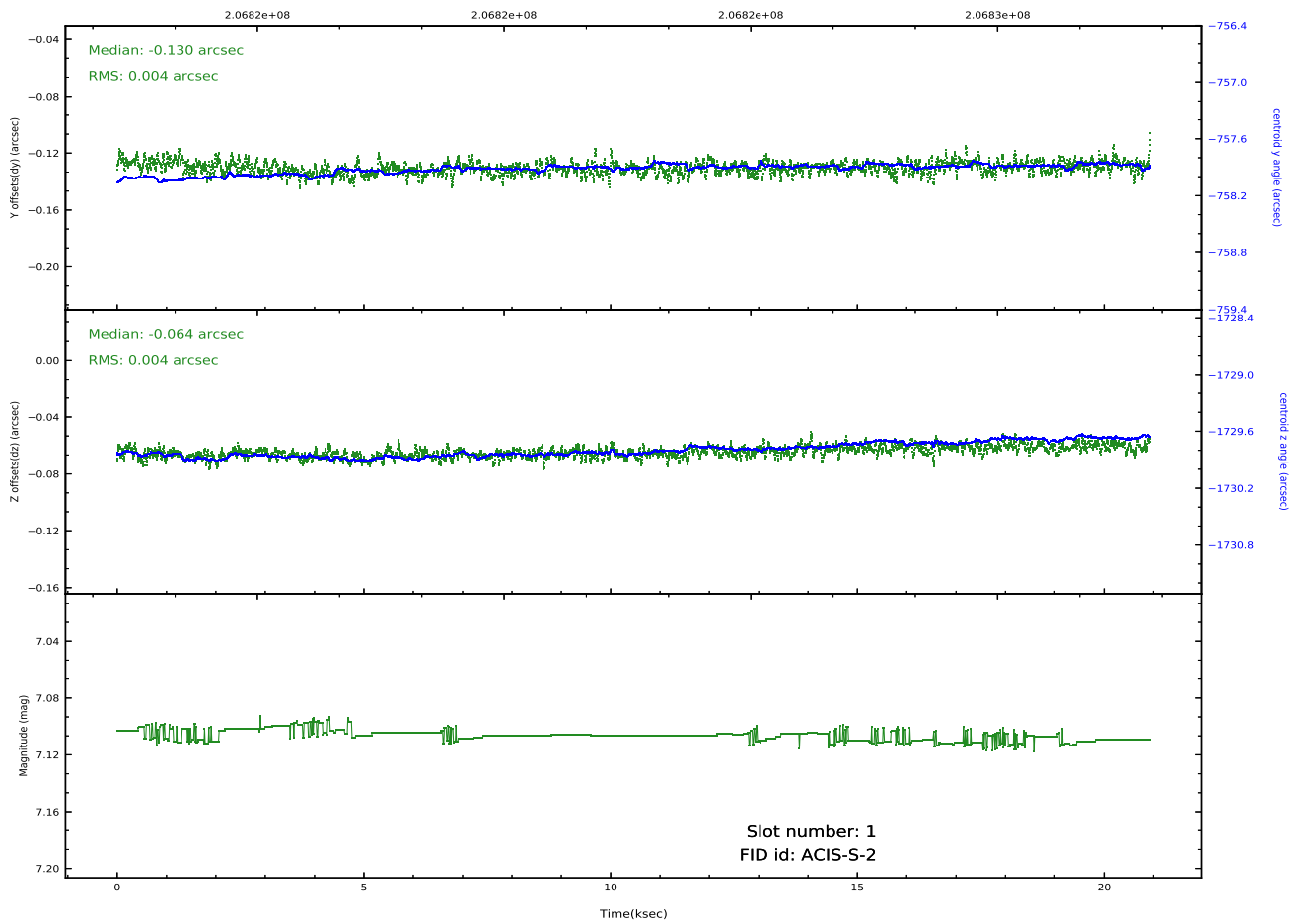
Time (s)



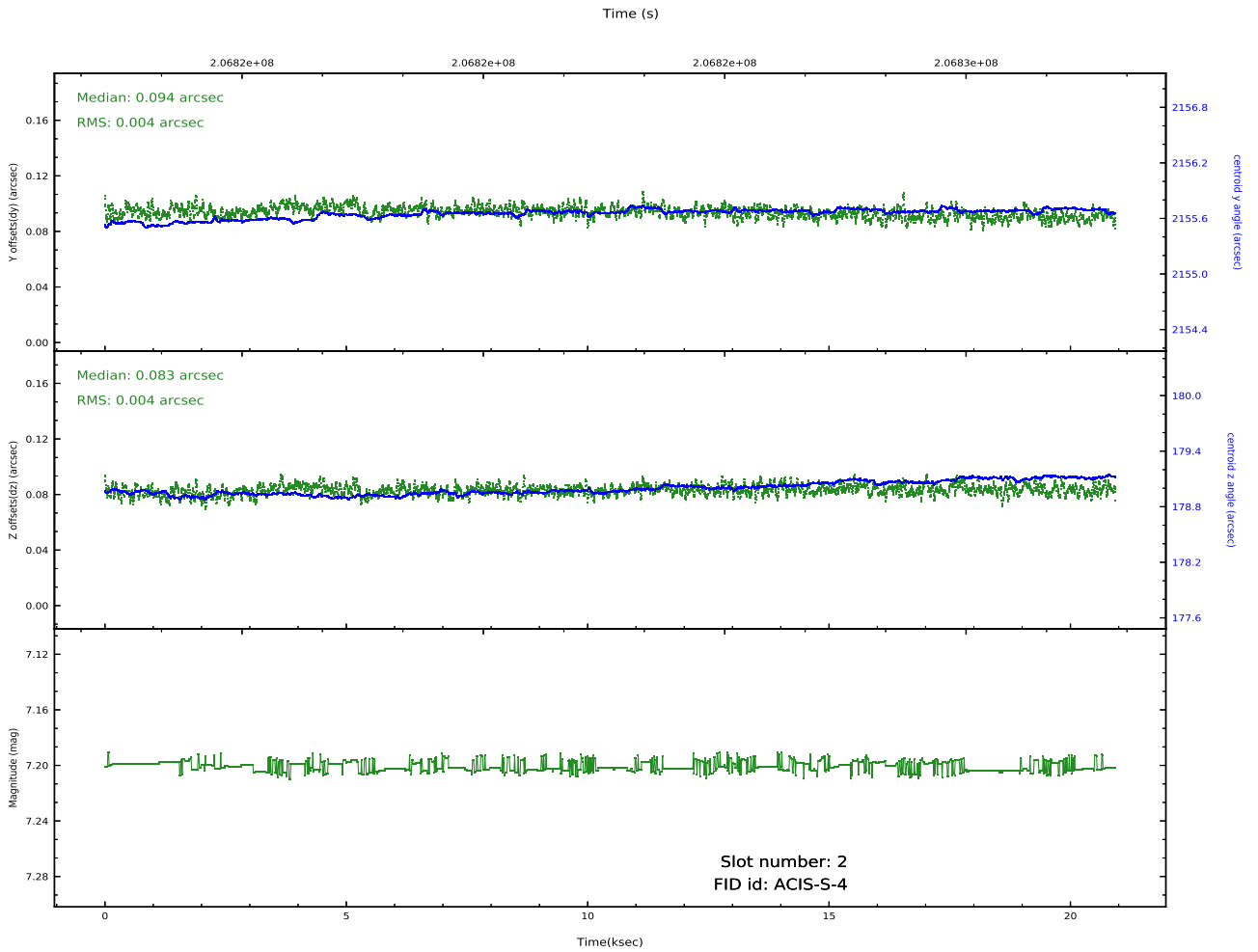
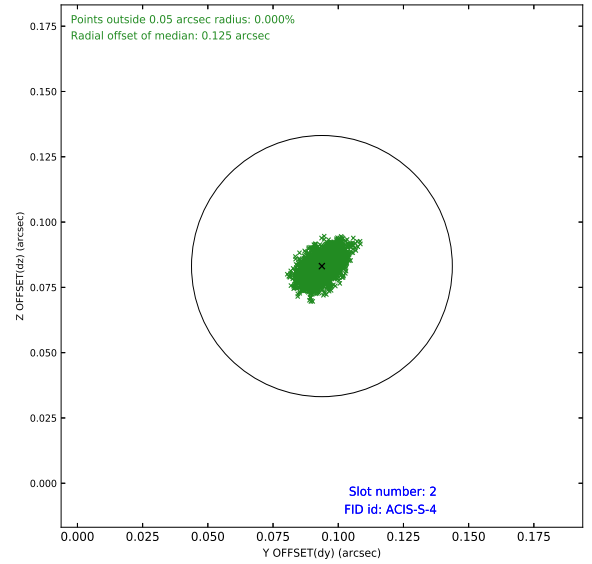
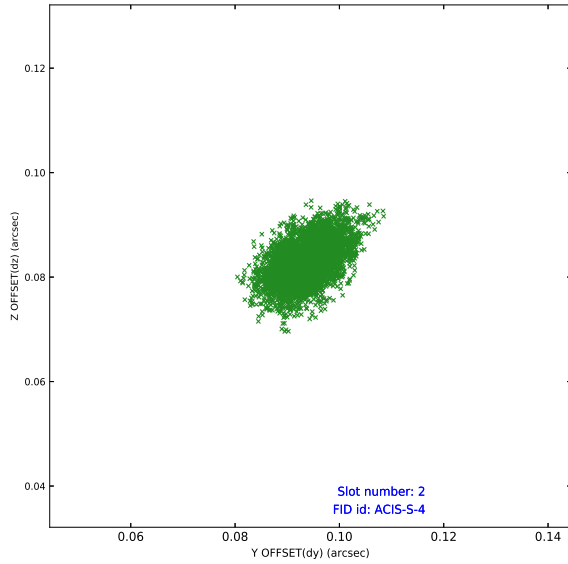
2.5.2 Slot 1



Time (s)



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Francesca Civano
V&V Date (YYYY-MM-DD)	2020.09.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	19.955

A.2 Comments