

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20293 - L2 Version 2
Chandra X-Ray Center

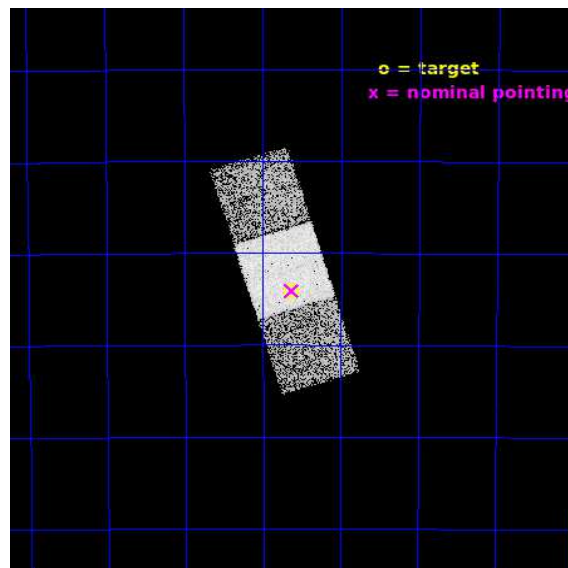
L2 Processing Date : Oct 26 2020

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1 Front

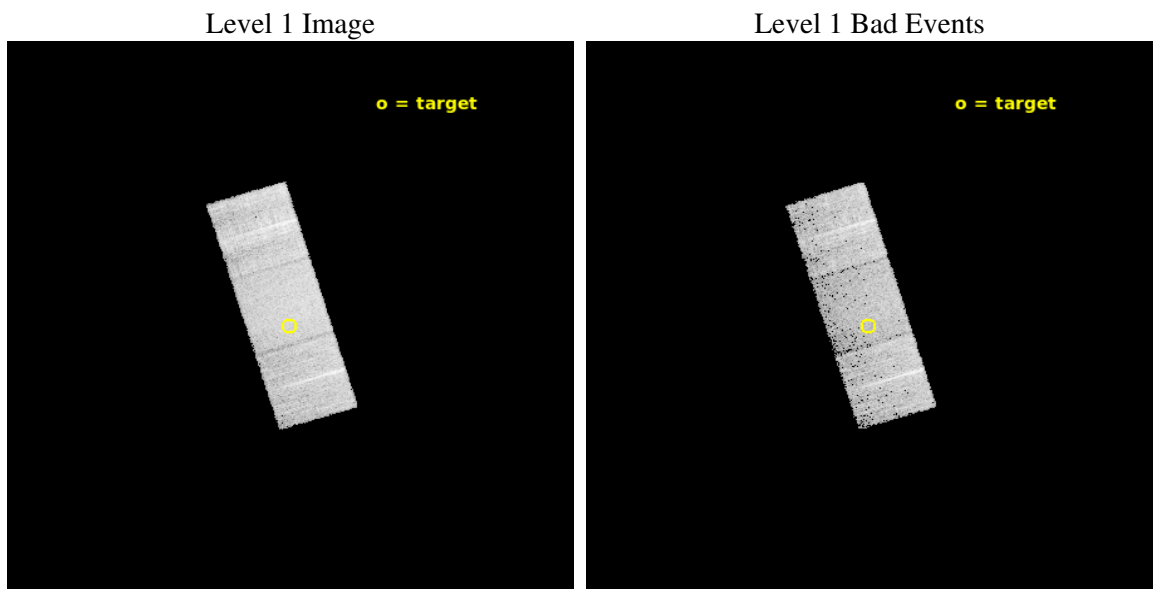
seq_num	502992	Sequence number
obs_id	20293	Observation id
title	Uncovering a new population of soft gamma-ray pulsars with Chandra	
observer	Pablo Saz Parkinson	Principal investigator
object	3FGL J1008.6-5706	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	152.158417	Observer's specified target RA [deg]
dec_targ	-57.068917	Observer's specified target Dec [deg]
ra_nom	152.15692261822	Nominal RA [deg]
dec_nom	-57.068296307274	Nominal Dec [deg]
roll_nom	252.73452406355	Nominal Roll [deg]
revision	2	Processing version of data
ontime	6106.9547945261	Sum of GTIs [s]
livetime	6027.1629342609	Livetime [s]
ontime6	6103.7726943493	Sum of GTIs [s]
ontime7	6106.9547945261	Sum of GTIs [s]
ontime8	6106.8727145195	Sum of GTIs [s]
l2events	33953	Number of level 2 events



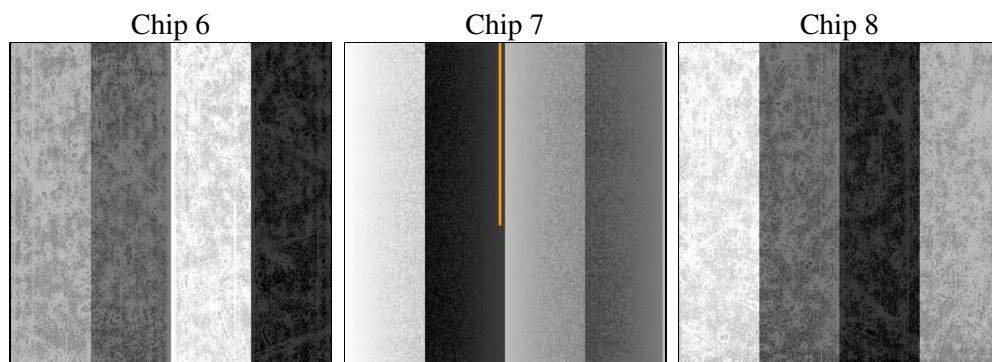
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	6000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	6106.9547945261	Sum of GTIs [s]
caldsver	4.9.3	 	ontime6	6103.7726943493	Sum of GTIs [s]
date	2020-10-26T06:19:55	Date and time of file creation	ontime7	6106.9547945261	Sum of GTIs [s]
revision	2	Processing version of data	ontime8	6106.8727145195	Sum of GTIs [s]
			l1events	166149	Number of level 1 events

2.1.4 Events

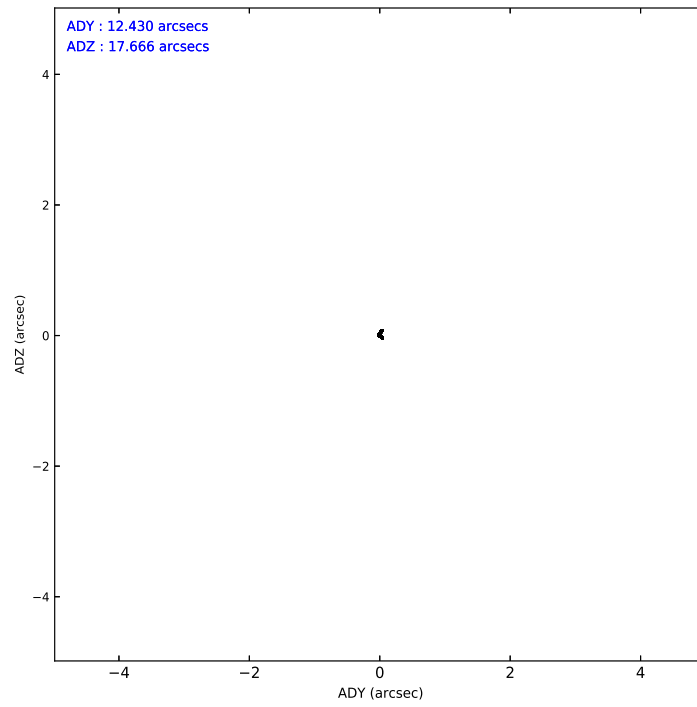
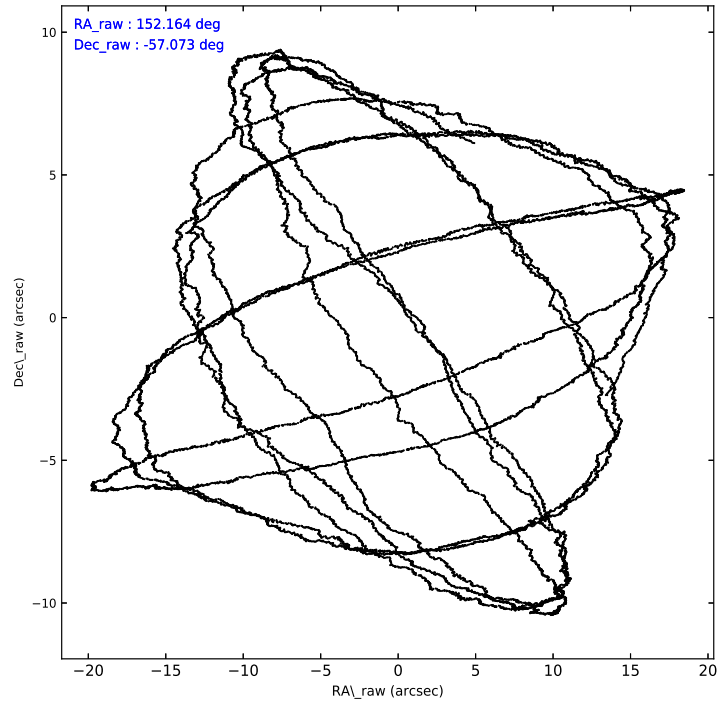
	ccd 6	ccd 7	ccd 8
level 1 events	47251	58343	60555
rejected events	41983	33115	45542
rejected %	88%	56%	75%

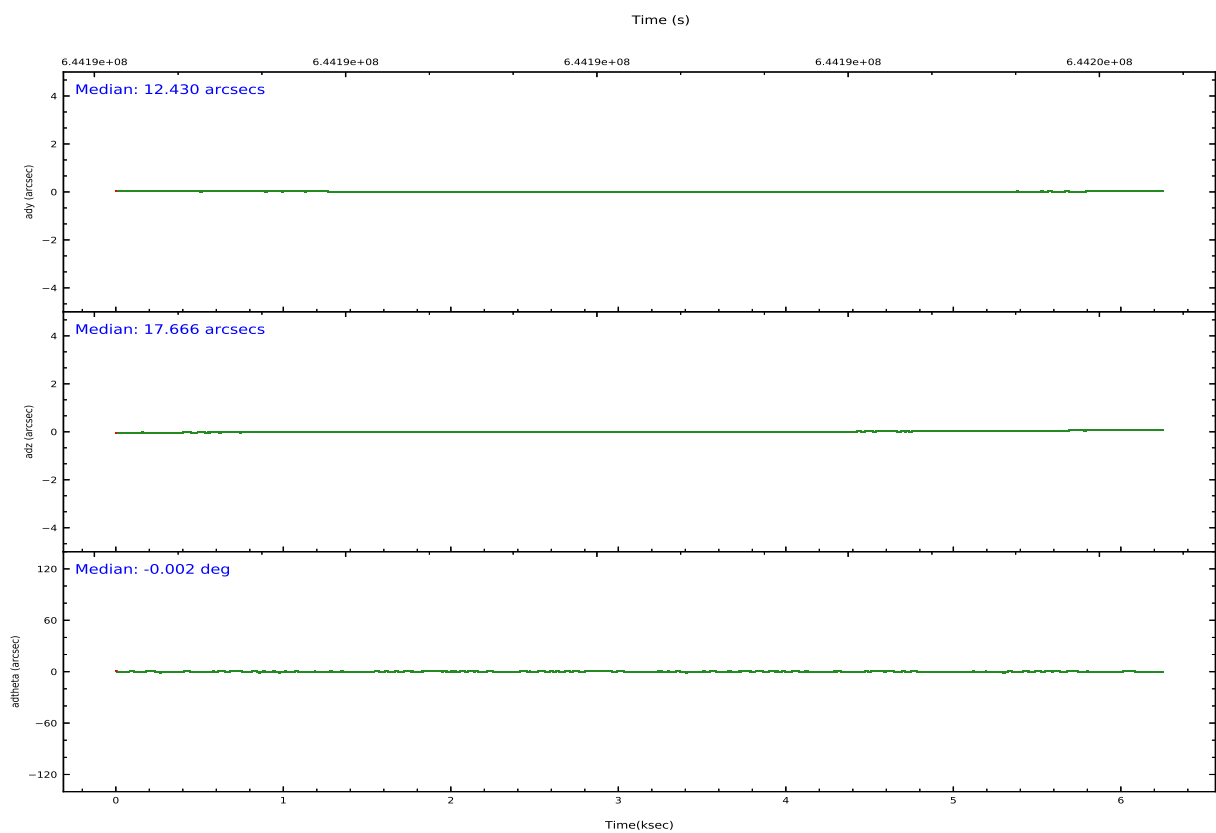
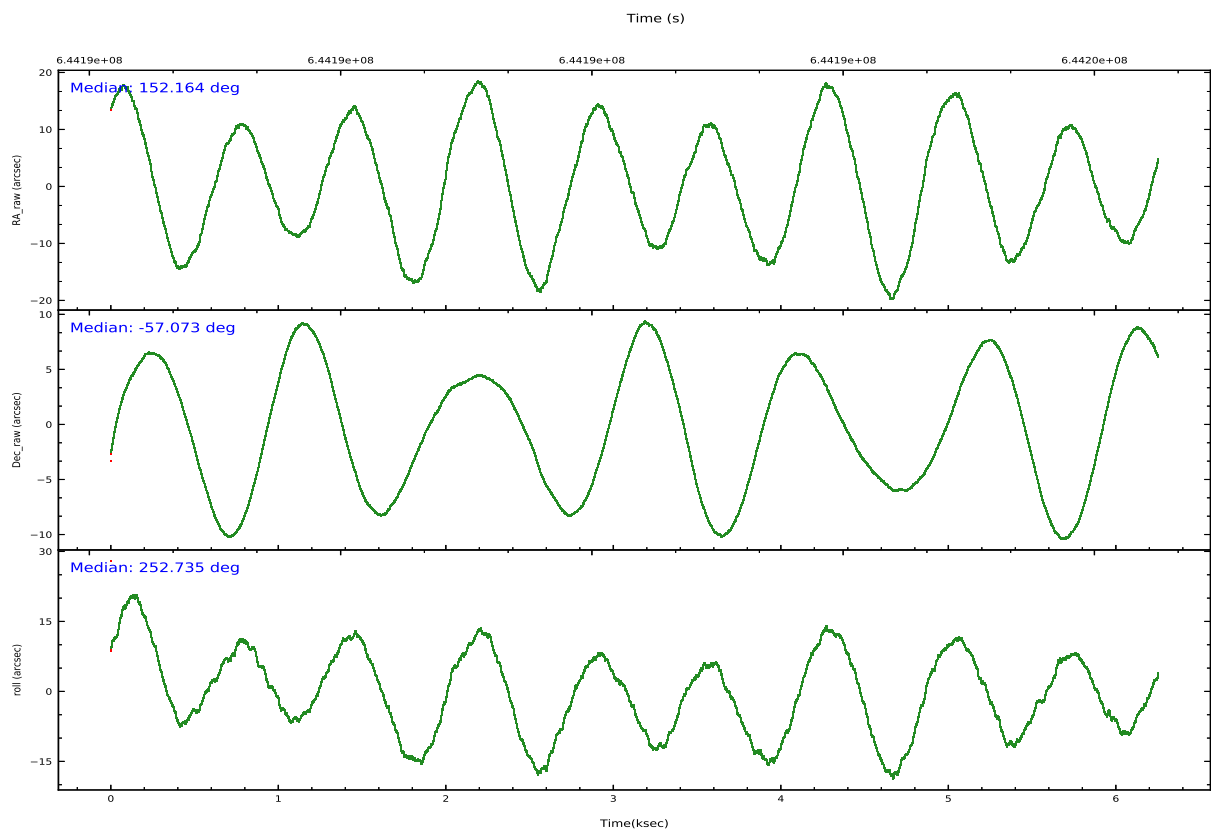
	ccd 6	ccd 7	ccd 8
grade 0 events	1563	2082	4190
	3%	3%	6%
grade 1 events	19	89	35
	0%	0%	0%
grade 2 events	1438	5055	3560
	3%	8%	5%
grade 3 events	411	2045	1667
	0%	3%	2%
grade 4 events	435	2004	1533
	0%	3%	2%
grade 5 events	1859	5564	2926
	3%	9%	4%
grade 6 events	1429	14064	4083
	3%	24%	6%
grade 7 events	40097	27440	42561
	84%	47%	70%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-678	ACIS-678	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	152.152081	152.15692261822	Subarray requested	NONE	NONE
[deg] Pointing Dec	-57.046635	-57.068296307274	Alternating exposures requested	N	N
[deg] Pointing Roll	252.571301	252.73452406355	[s] Primary exposure time	0.000000	3.1
[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)	644189881.184000	644188856.18337			
Observation start date	2018-05-31T21:36:52	2018-05-31T21:20:56			
[s] Observation end time (MET)	644195881.184000	644196847.08384			
Observation end date	2018-05-31T23:16:52	2018-05-31T23:34:07			
Read mode	TIMED	TIMED			

2.3 Aspect



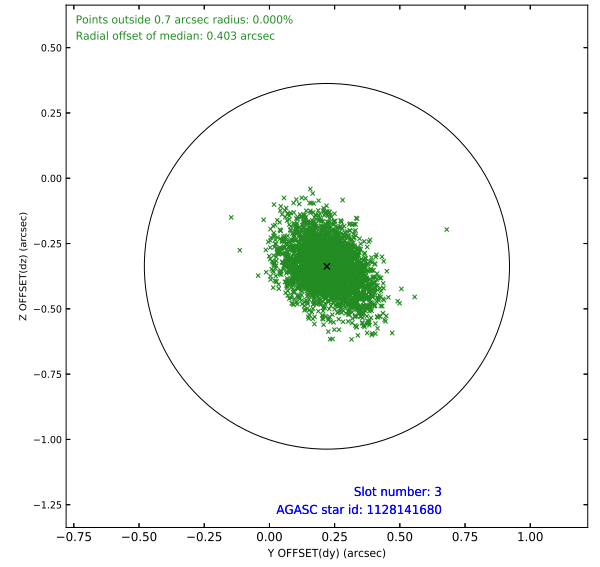
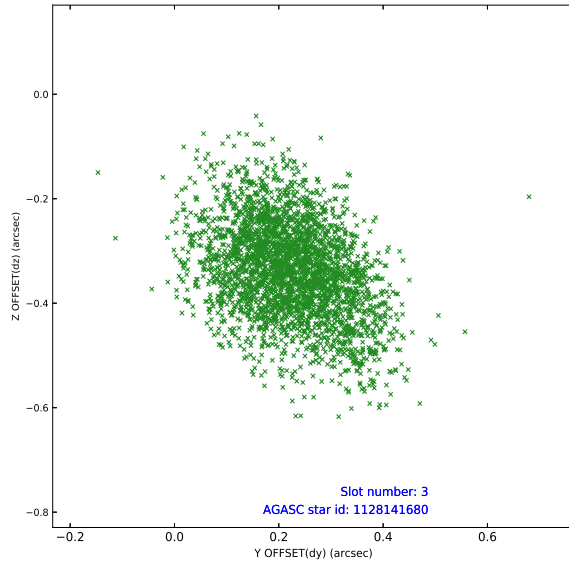


Slot Statistics

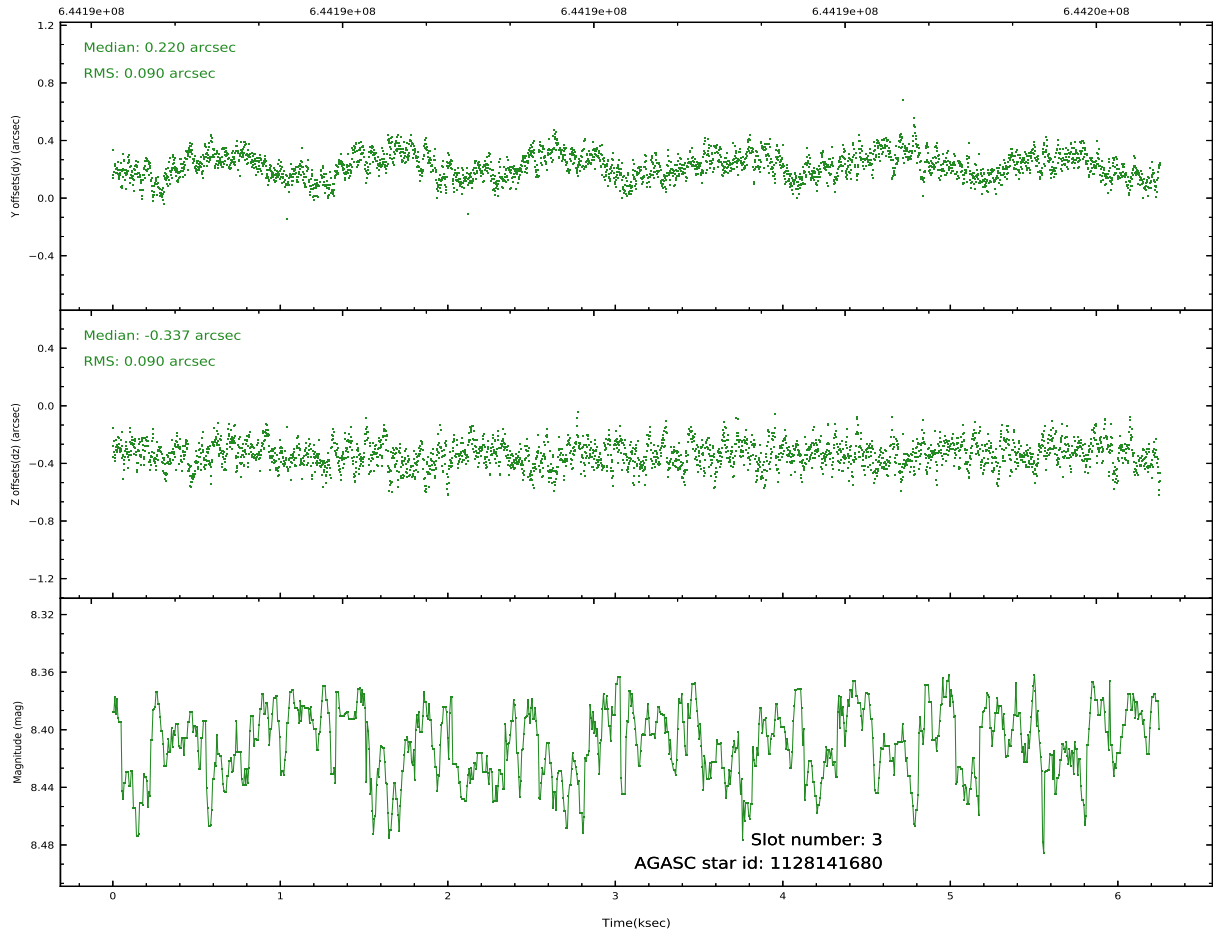
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-1	7.24	1526	1.000	0.285	-0.156	0.006	0.012	0.000000	0.000000	930.87	-1734
1	FID		ACIS-S-5	7.26	1526	1.000	-0.260	0.227	0.006	0.011	0.000000	0.000000	-1818.02	162
2	FID		ACIS-S-6	7.40	1526	1.000	-0.047	-0.059	0.007	0.012	0.000000	0.000000	395.24	806
3	GUIDE	used	1128141680	8.41	3049	1.000	0.220	-0.337	0.134	0.220	151.879182	-57.549956	1888.53	40
4	GUIDE	used	1128142832	8.61	3051	1.000	0.143	0.044	0.121	0.209	151.690539	-57.394211	1466.12	-478
5	GUIDE	used	1128151136	8.12	3050	1.000	-0.174	0.121	0.115	0.202	152.684378	-56.819318	-1090.35	756
6	GUIDE	used	1128145376	8.61	3049	1.000	0.211	0.127	0.123	0.208	151.466979	-56.352697	-1967.32	-2049
7	GUIDE	used	1128144304	8.60	3047	1.000	-0.407	0.047	0.139	0.231	153.015776	-56.507857	-2354.78	1058

2.4 Star Slots

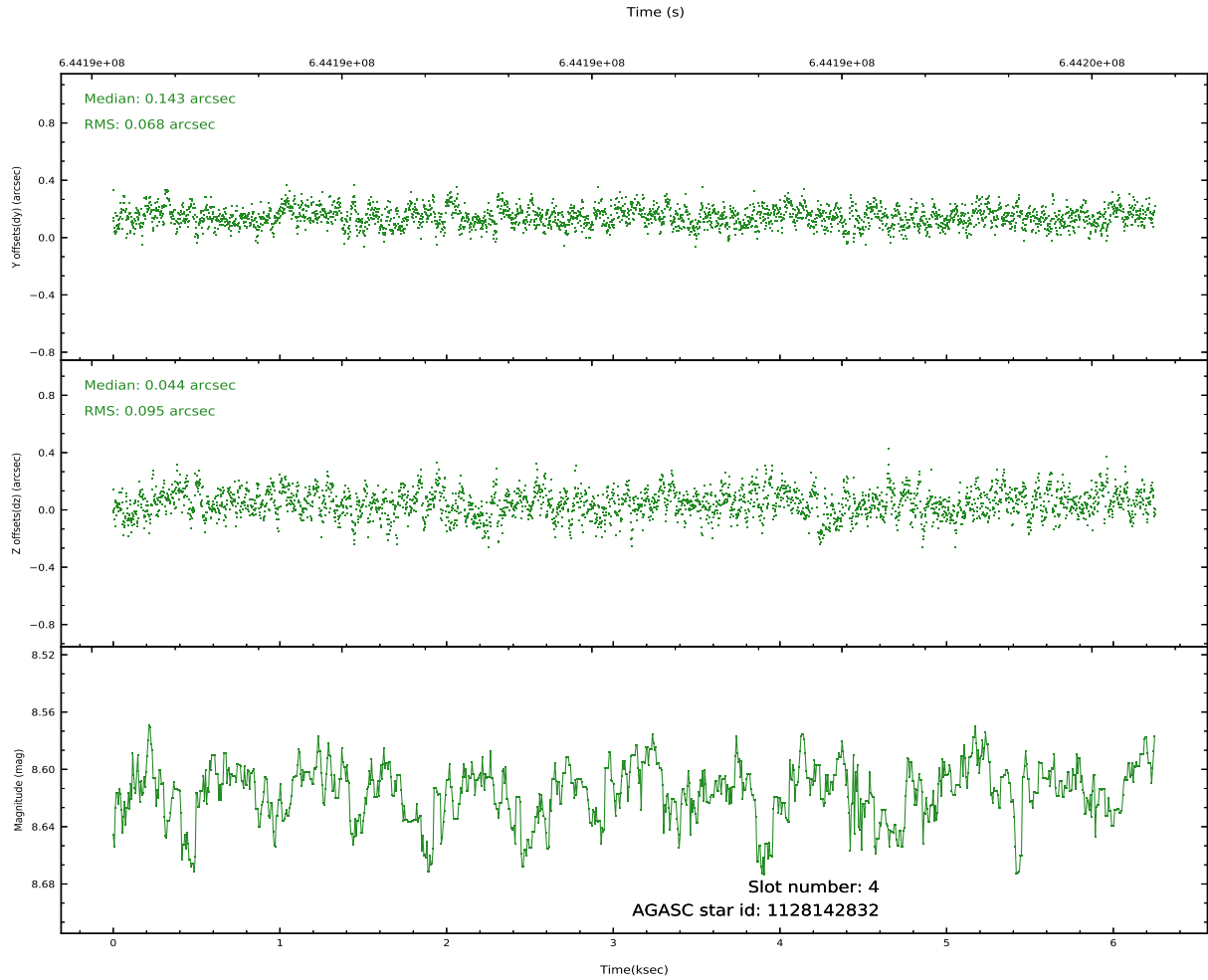
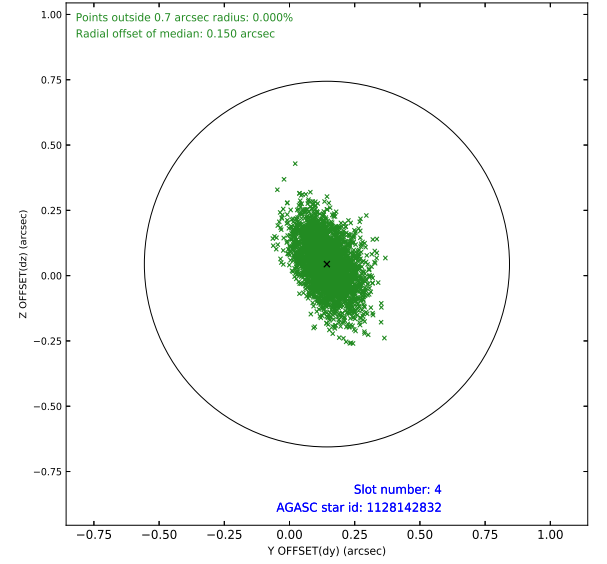
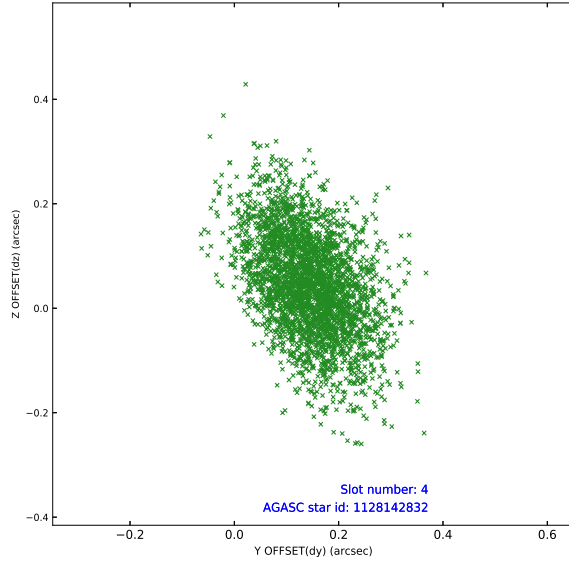
2.4.1 Slot 3



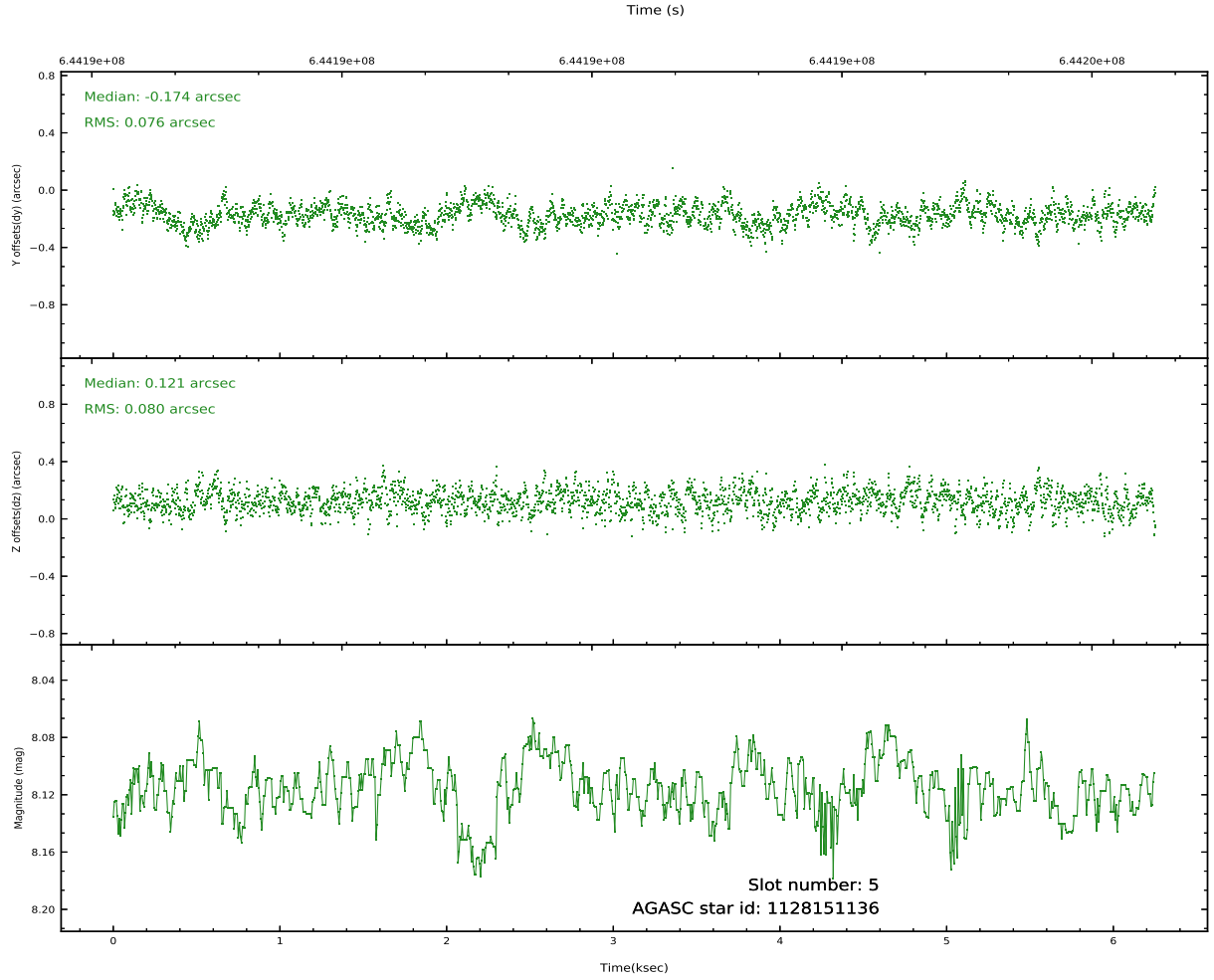
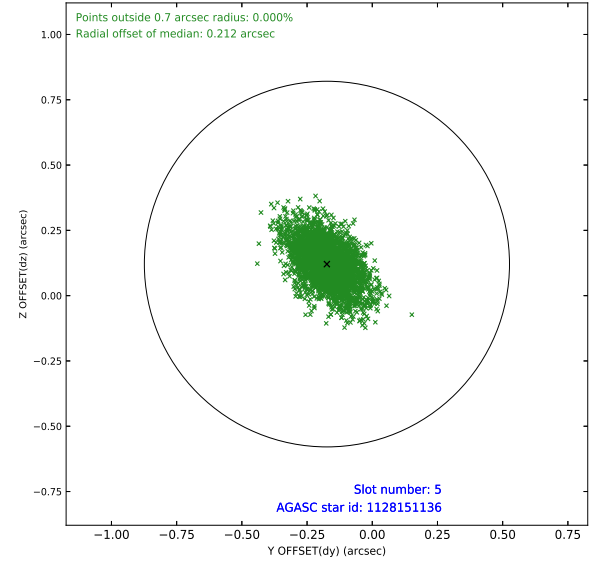
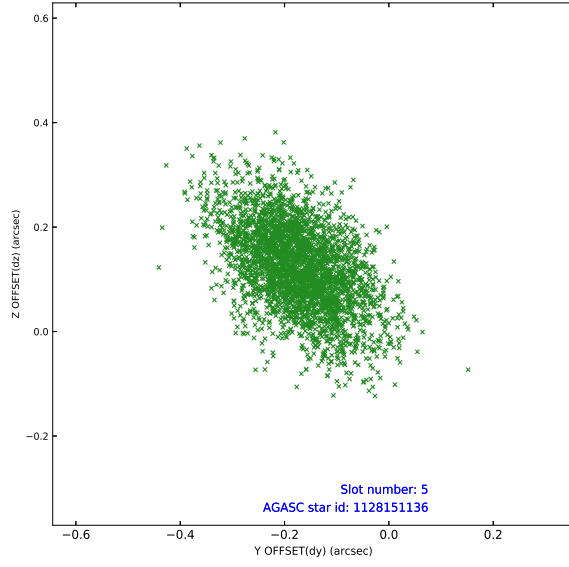
Time (s)



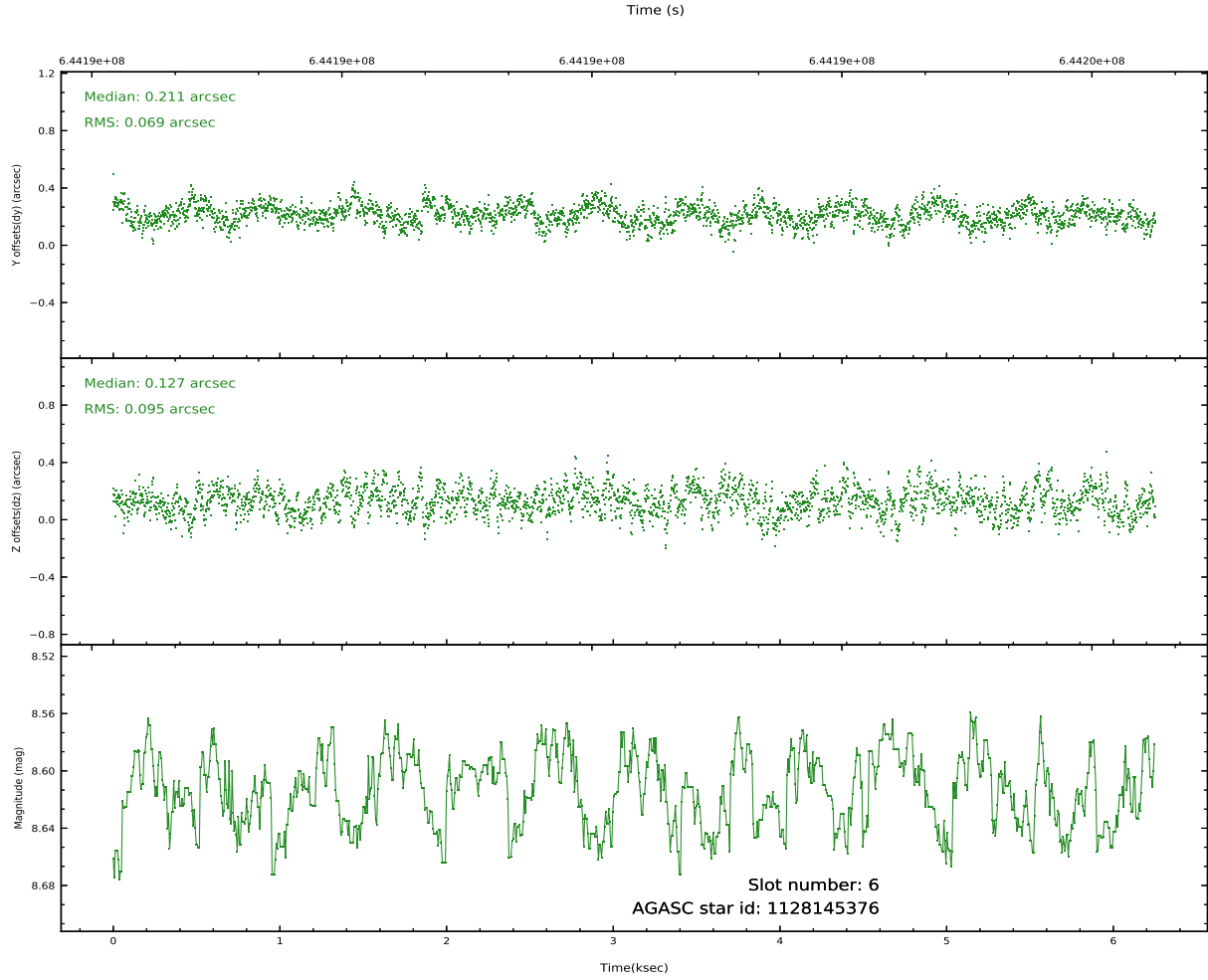
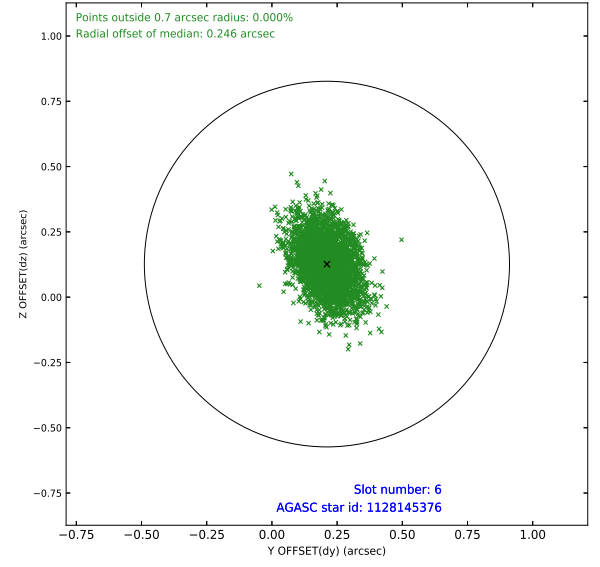
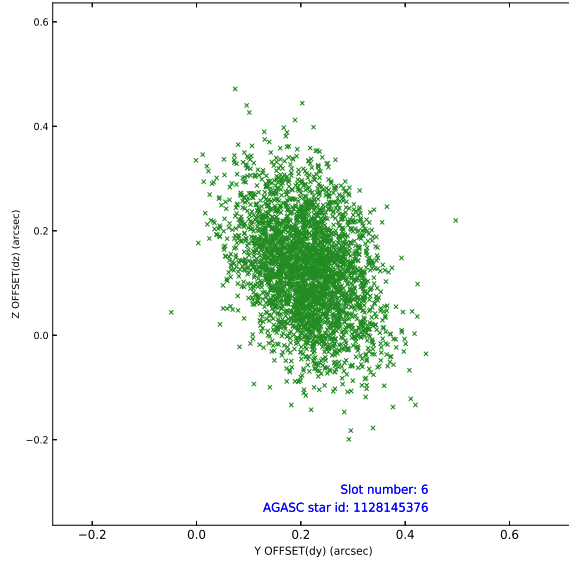
2.4.2 Slot 4



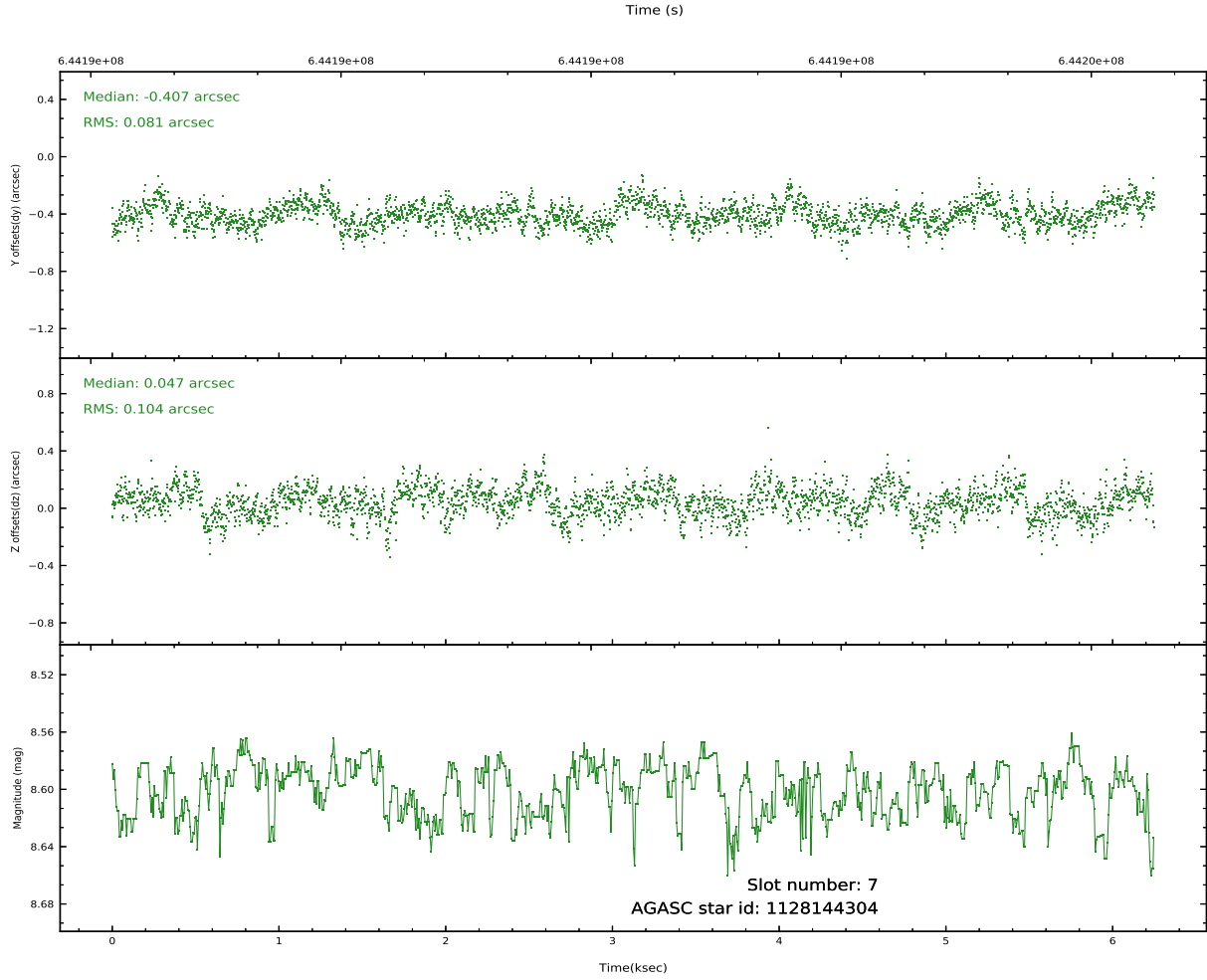
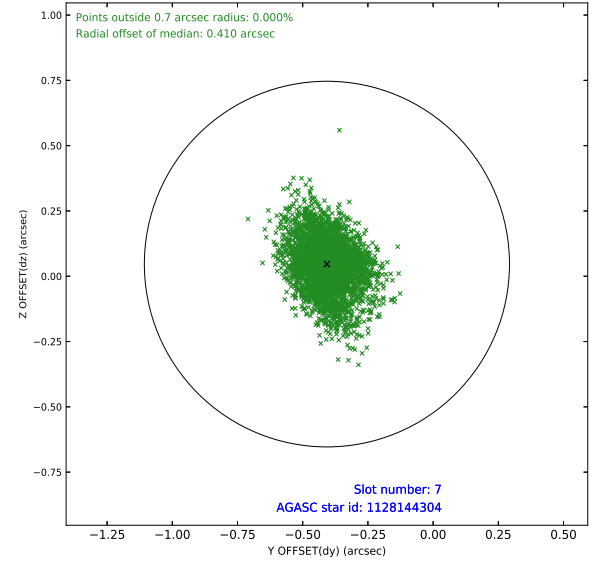
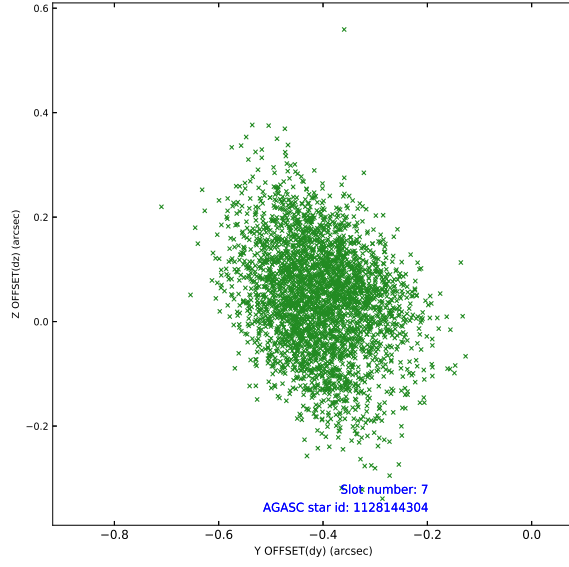
2.4.3 Slot 5



2.4.4 Slot 6

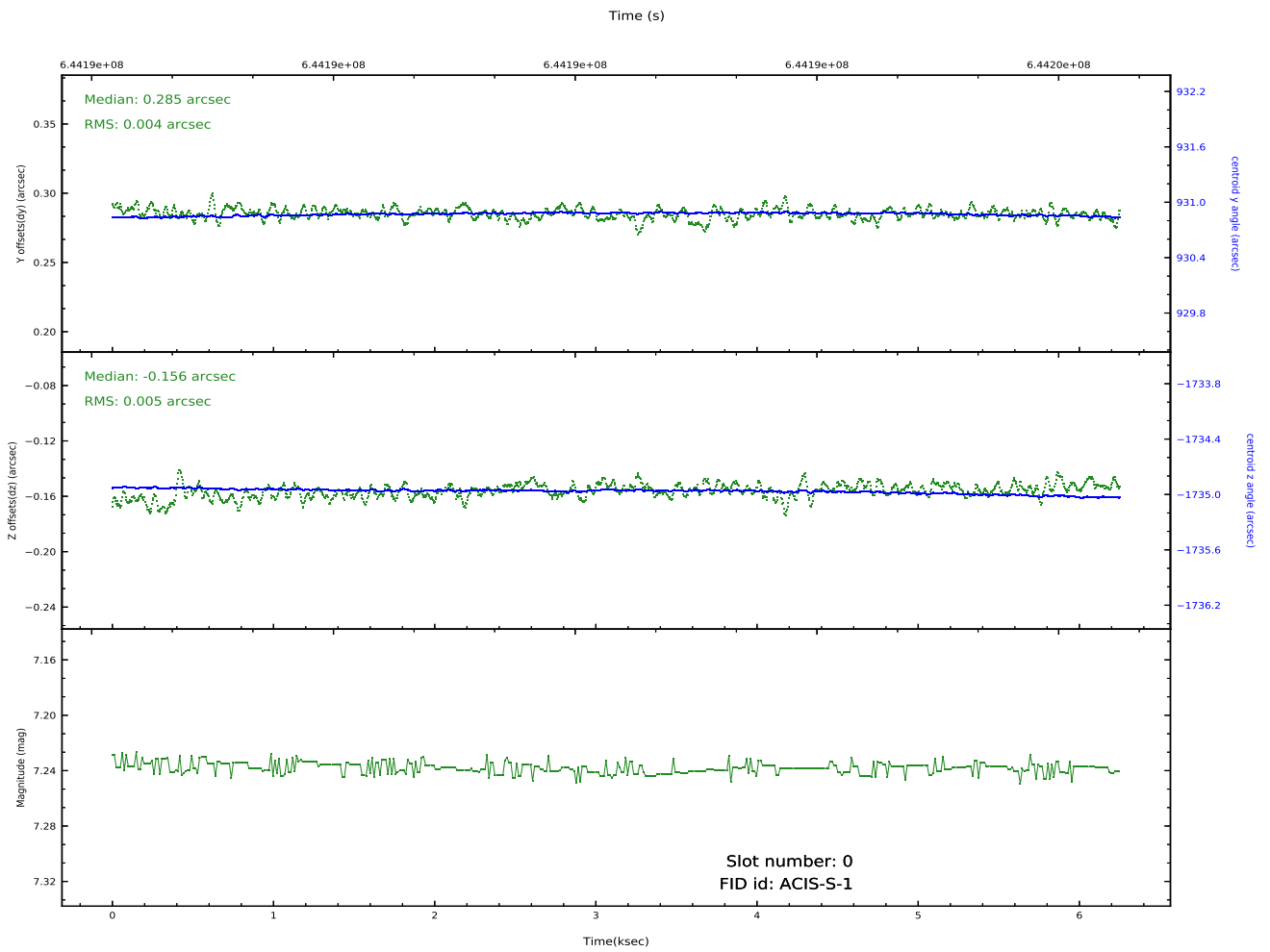
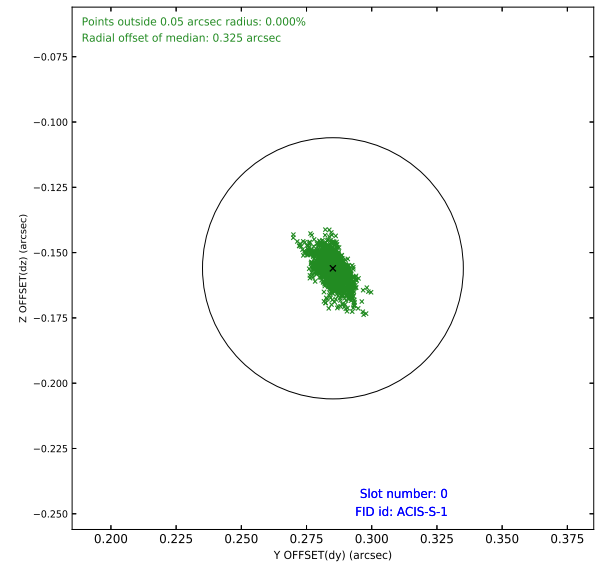
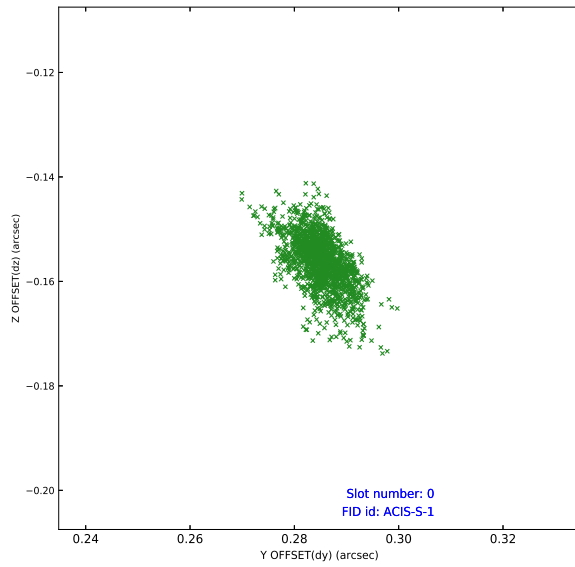


2.4.5 Slot 7

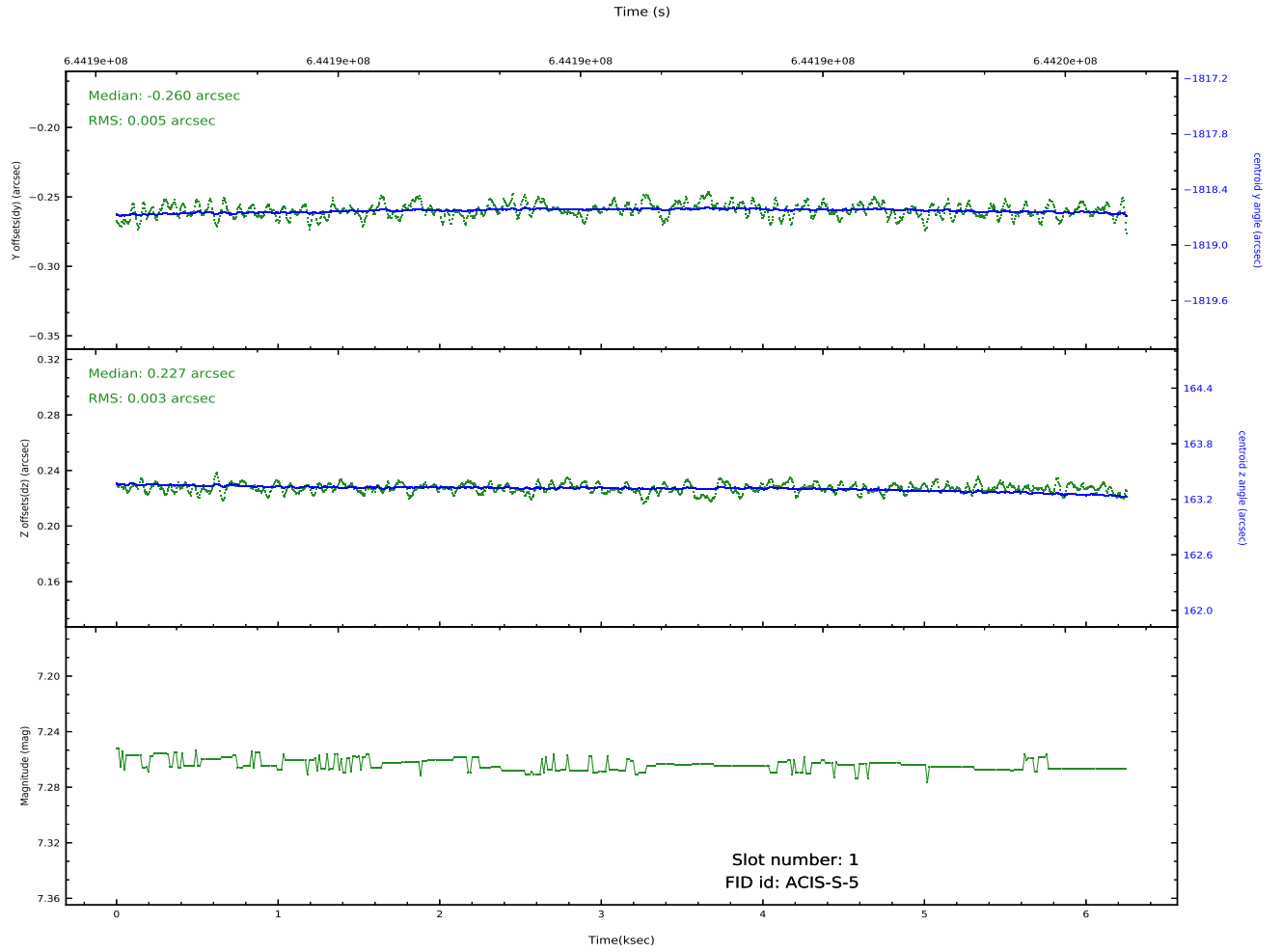
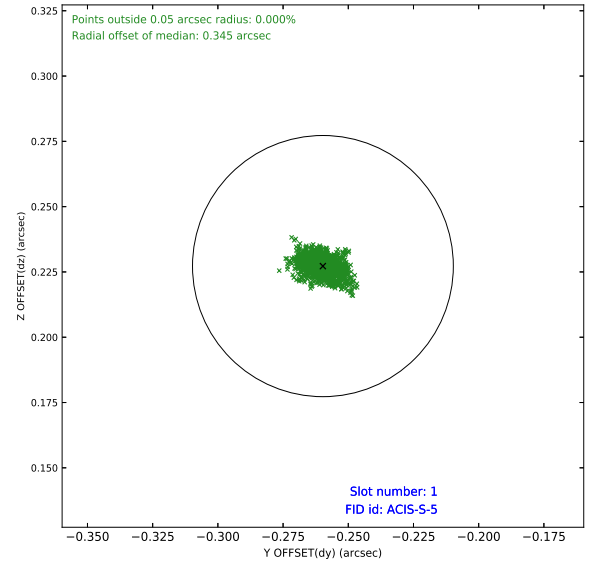
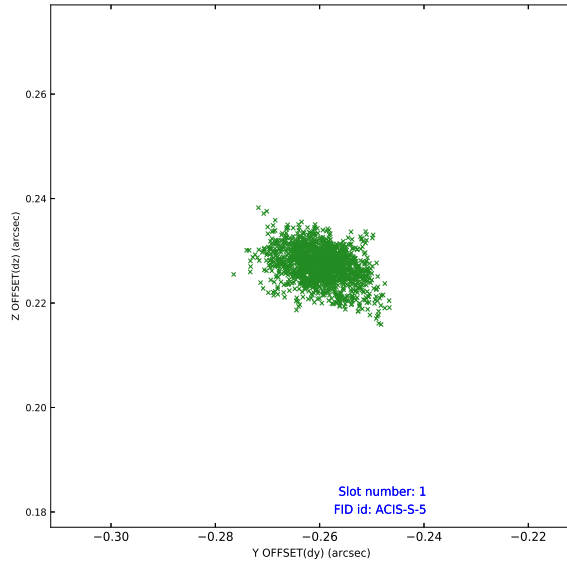


2.5 FID Slots

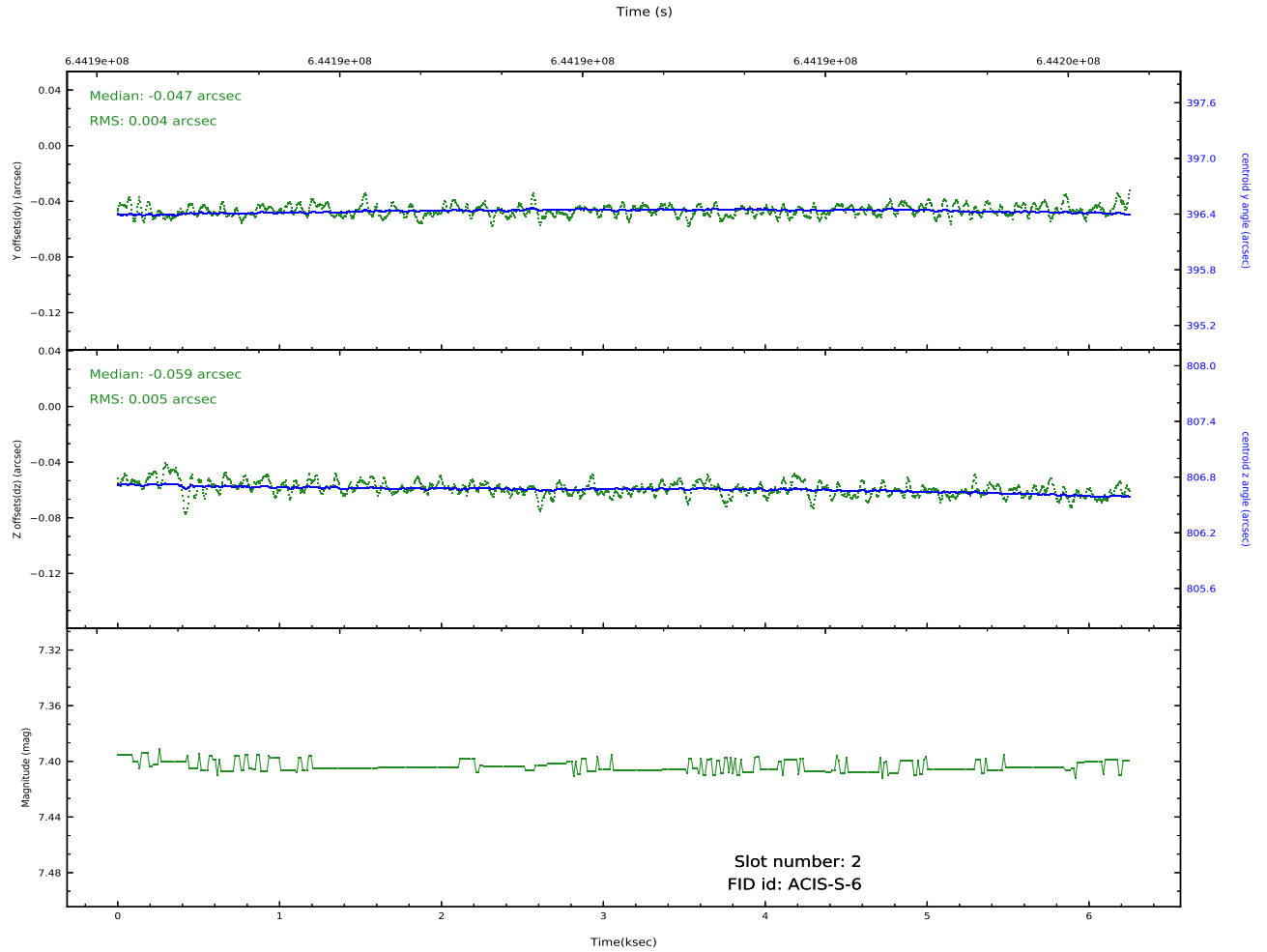
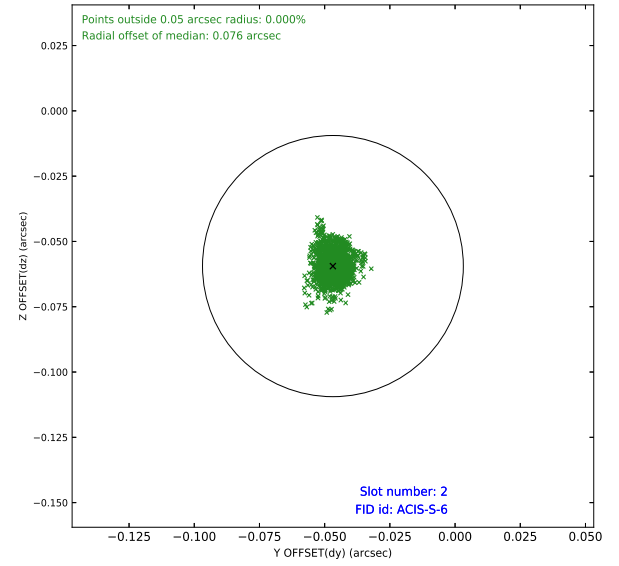
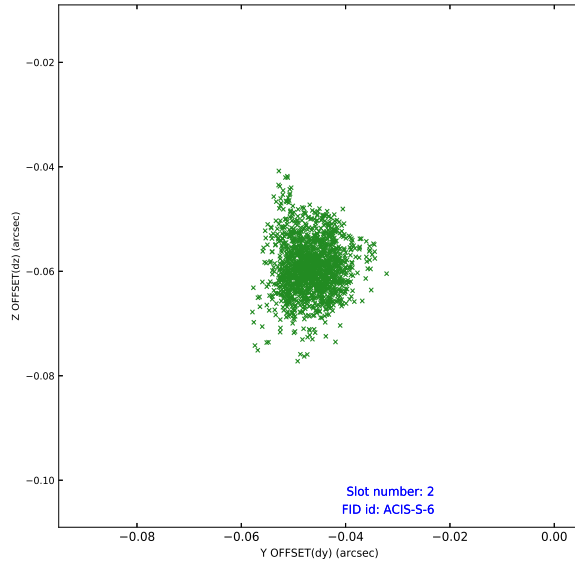
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2020.10.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	6.1069547868967

A.2 Comments