

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 4644 - L2 Version 5
Chandra X-Ray Center

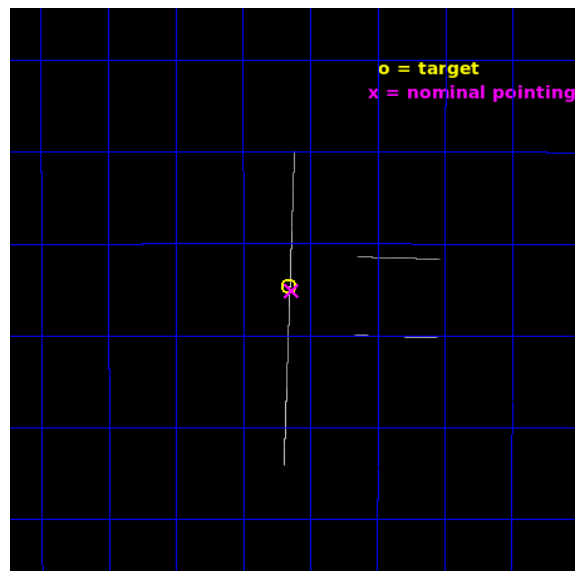
L2 Processing Date : Oct 2 2020

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1 Front

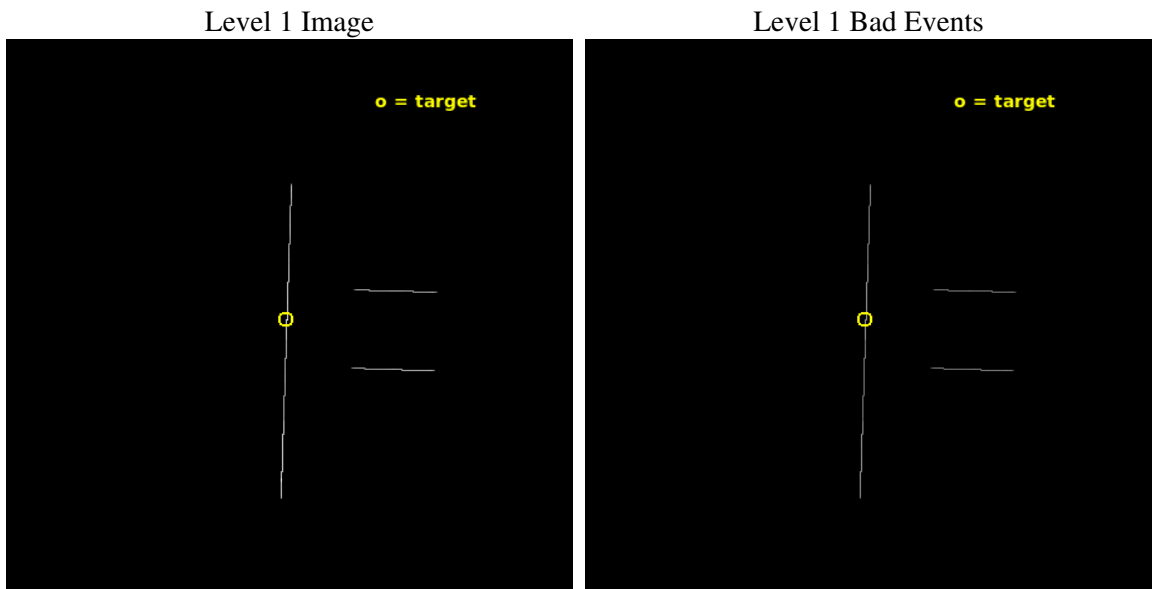
seq_num	500463	Sequence number
obs_id	4644	Observation id
title	ToO Observations of Soft Gamma Repeaters	Proposal title
observer	Dr. Peter Woods	Principal investigator
object	SGR 1806-20	Source name
ra_targ	272.16375	Observer's specified target RA [deg]
dec_targ	-20.410972	Observer's specified target Dec [deg]
ra_nom	272.15909065435	Nominal RA [deg]
dec_nom	-20.418771832186	Nominal Dec [deg]
roll_nom	271.78741174519	Nominal Roll [deg]
revision	5	Processing version of data
ontime	35160.5	Sum of GTIs [s]
livetime	35023.154296875	Livetime [s]
ontime2	35160.5	Sum of GTIs [s]
ontime3	35160.5	Sum of GTIs [s]
ontime5	35160.5	Sum of GTIs [s]
ontime6	35160.5	Sum of GTIs [s]
ontime7	35160.5	Sum of GTIs [s]
ontime8	35160.5	Sum of GTIs [s]
l2events	536342	Number of level 2 events



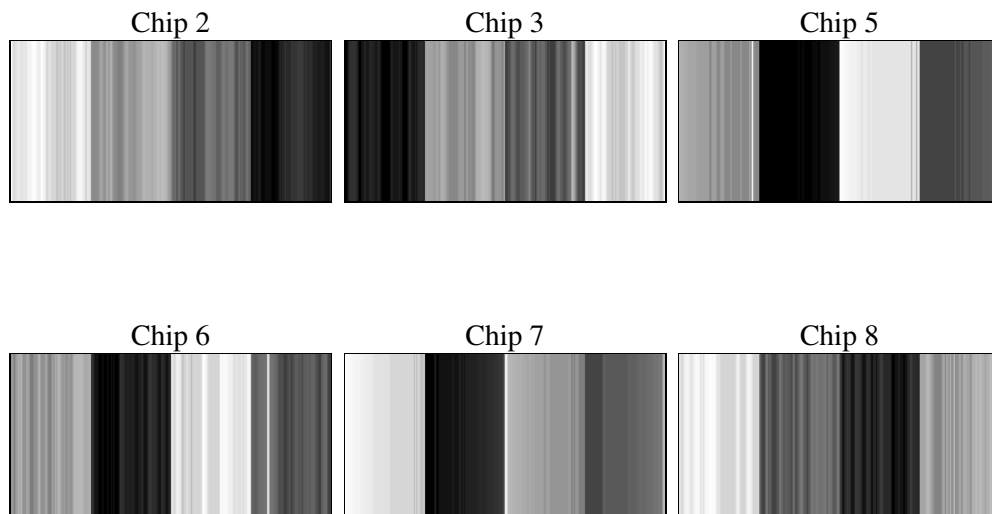
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	35000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	35160.5	Sum of GTIs [s]
caldbver	4.9.2	 	ontime2	35160.5	Sum of GTIs [s]
date	2020-10-03T00:24:33	Date and time of file creation	ontime3	35160.5	Sum of GTIs [s]
revision	5	Processing version of data	ontime5	35160.5	Sum of GTIs [s]
			ontime6	35160.5	Sum of GTIs [s]
			ontime7	35160.5	Sum of GTIs [s]
			ontime8	35160.5	Sum of GTIs [s]
			l1events	801214	Number of level 1 events

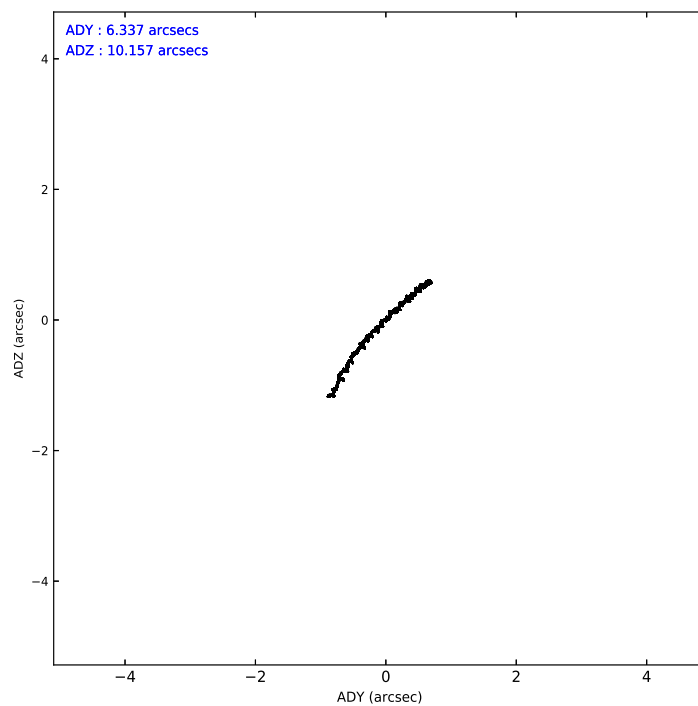
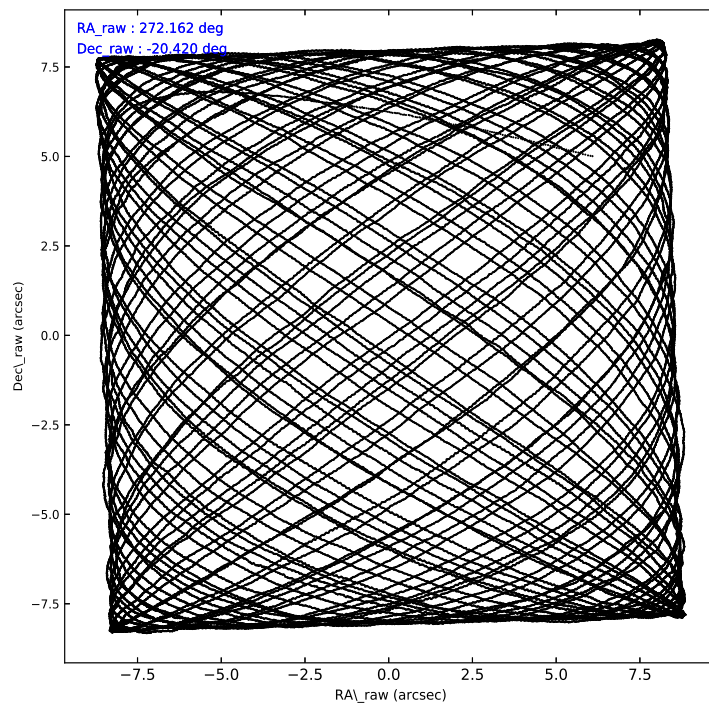
2.1.4 Events

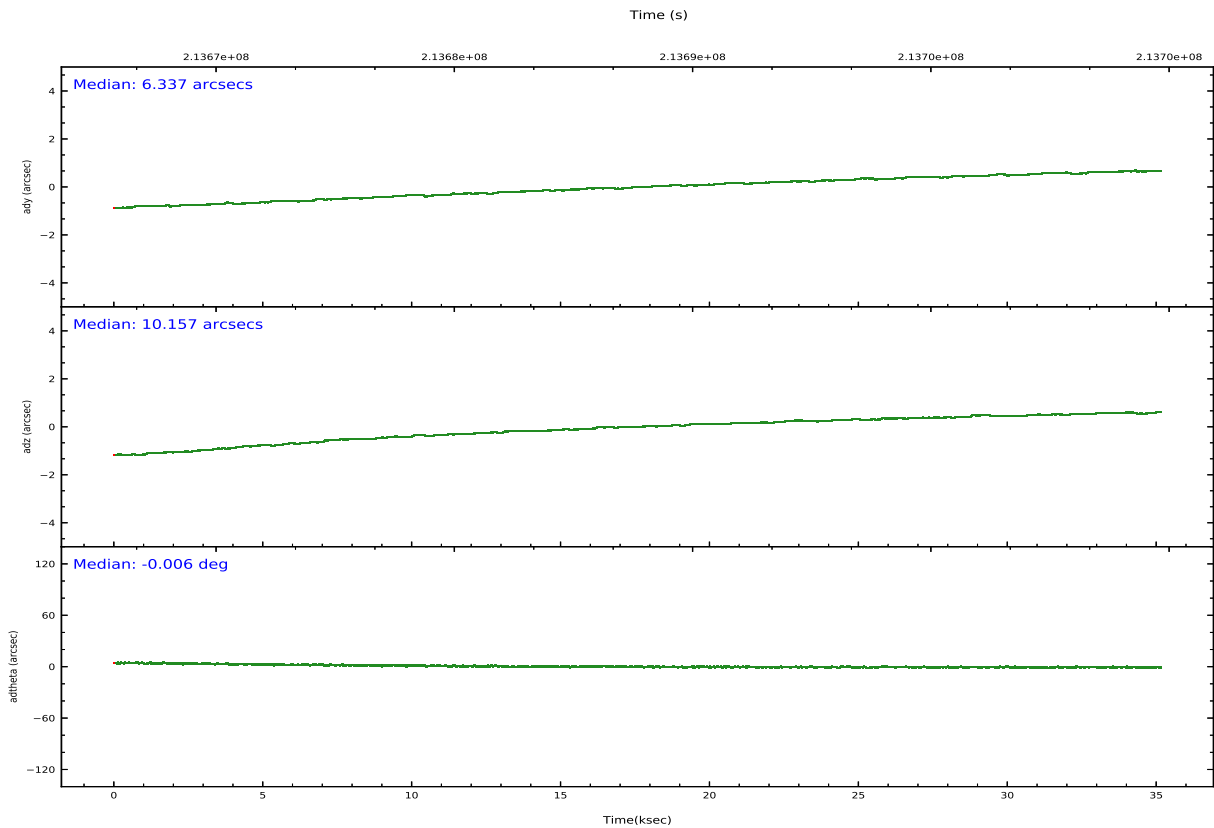
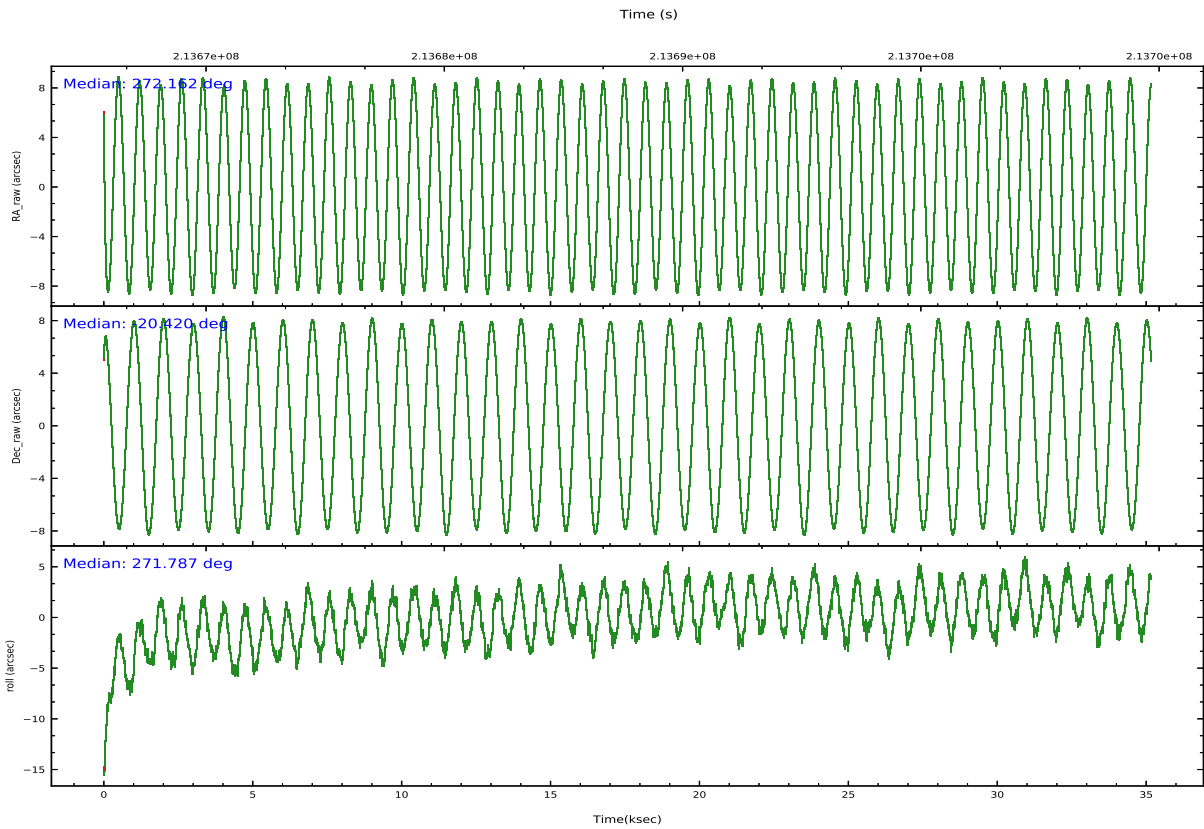
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	60002	62515	272246	64642	223781	118028	grade 0 events	7805	7084	53162	6355	21080	19192
rejected events	12530	13192	32570	13992	36172	19070		13%	11%	19%	9%	9%	16%
rejected %	20%	21%	11%	21%	16%	16%	grade 1 events	288	266	434	249	532	375
								0%	0%	0%	0%	0%	0%
							grade 2 events	18379	19162	69691	20742	47908	32262
								30%	30%	25%	32%	21%	27%
							grade 3 events	6157	7227	5577	6250	15190	11464
								10%	11%	2%	9%	6%	9%
							grade 4 events	6374	6297	5287	5941	14889	11042
								10%	10%	1%	9%	6%	9%
							grade 5 events	11060	11714	26241	12468	31754	16298
								18%	18%	9%	19%	14%	13%
							grade 6 events	9939	10765	111854	12637	92428	27394
								16%	17%	41%	19%	41%	23%
							grade 7 events	0	0	0	0	0	1
								0%	0%	0%	0%	0%	0%

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	CC33_FAINT	CC33_FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	272.146626	272.15909065435	Subarray requested	NONE	NONE
[deg] Pointing Dec	-20.397589	-20.418771832186	Alternating exposures requested	N	N
[deg] Pointing Roll	271.621823	271.78741174519	[s] Primary exposure time	0.000000	0
[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)	213668732.184000	213667684.46119			
Observation start date	2004-10-09T00:24:28	2004-10-09T00:08:04			
[s] Observation end time (MET)	213703732.184000	213704493.23783			
Observation end date	2004-10-09T10:07:48	2004-10-09T10:21:33			
Read mode	CONTINUOUS	CONTINUOUS			

2.3 Aspect





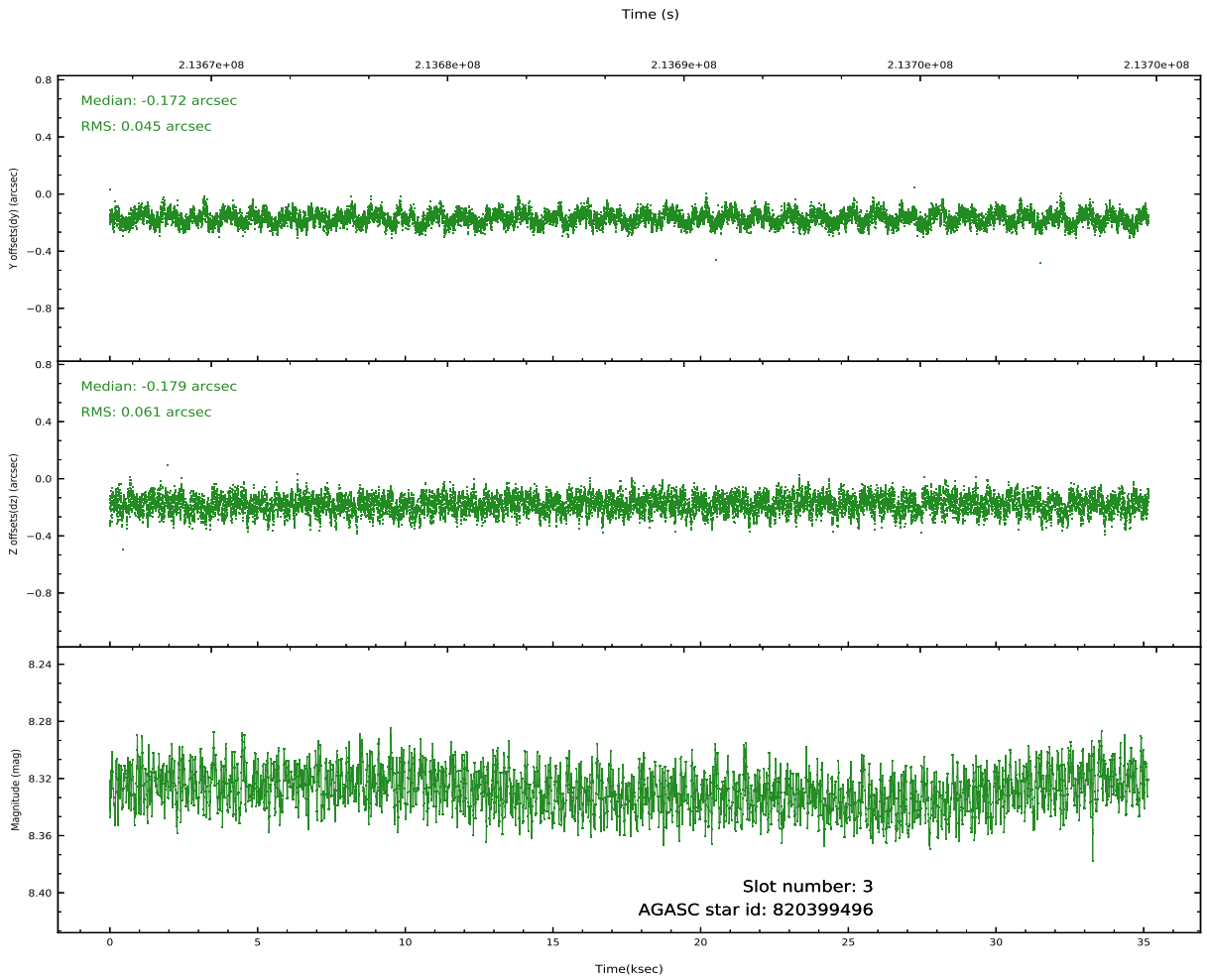
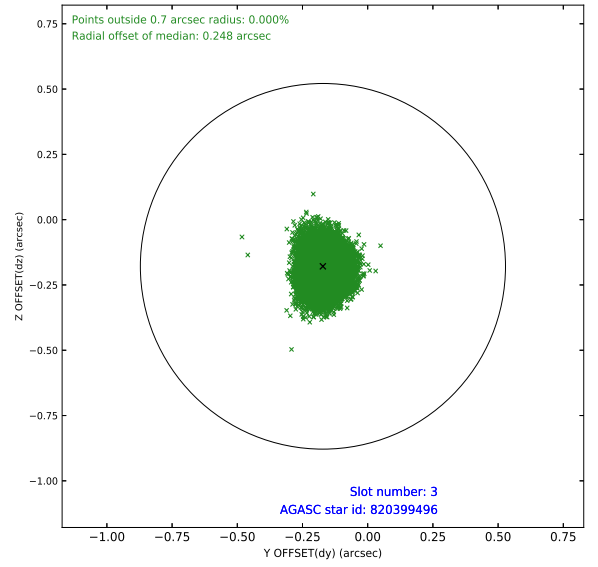
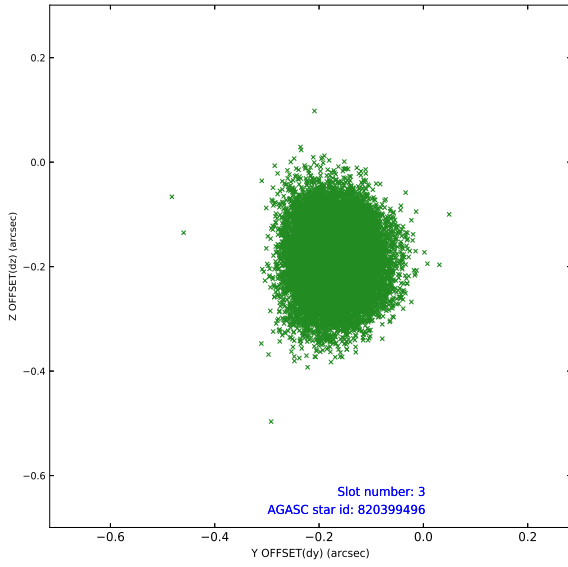
Slot Statistics

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	8578	1.000	0.026	-0.053	0.031	0.044	0.000000	0.000000	937.04	-1726
1	FID		ACIS-S-5	7.23	8577	1.000	-0.094	0.003	0.015	0.027	0.000000	0.000000	-1812.06	170
2	FID		ACIS-S-6	7.35	8578	1.000	0.049	0.065	0.033	0.049	0.000000	0.000000	402.57	814
3	GUIDE	used	820399496	8.33	17152	1.000	-0.172	-0.179	0.080	0.130	271.495152	-19.953854	-1654.73	-2158
4	GUIDE	used	822098736	8.48	17149	1.000	-0.147	-0.026	0.066	0.105	272.269355	-19.875225	-1867.79	468
5	GUIDE	used	822616024	8.43	17150	1.000	0.259	-0.019	0.051	0.084	272.218514	-20.919122	1884.22	188
6	GUIDE	used	822617304	8.97	17140	1.000	0.127	0.136	0.071	0.119	272.421826	-20.831304	1588.35	881
7	GUIDE	used	822102232	8.80	17149	1.000	-0.071	0.089	0.066	0.107	272.350923	-20.034935	-1284.77	727

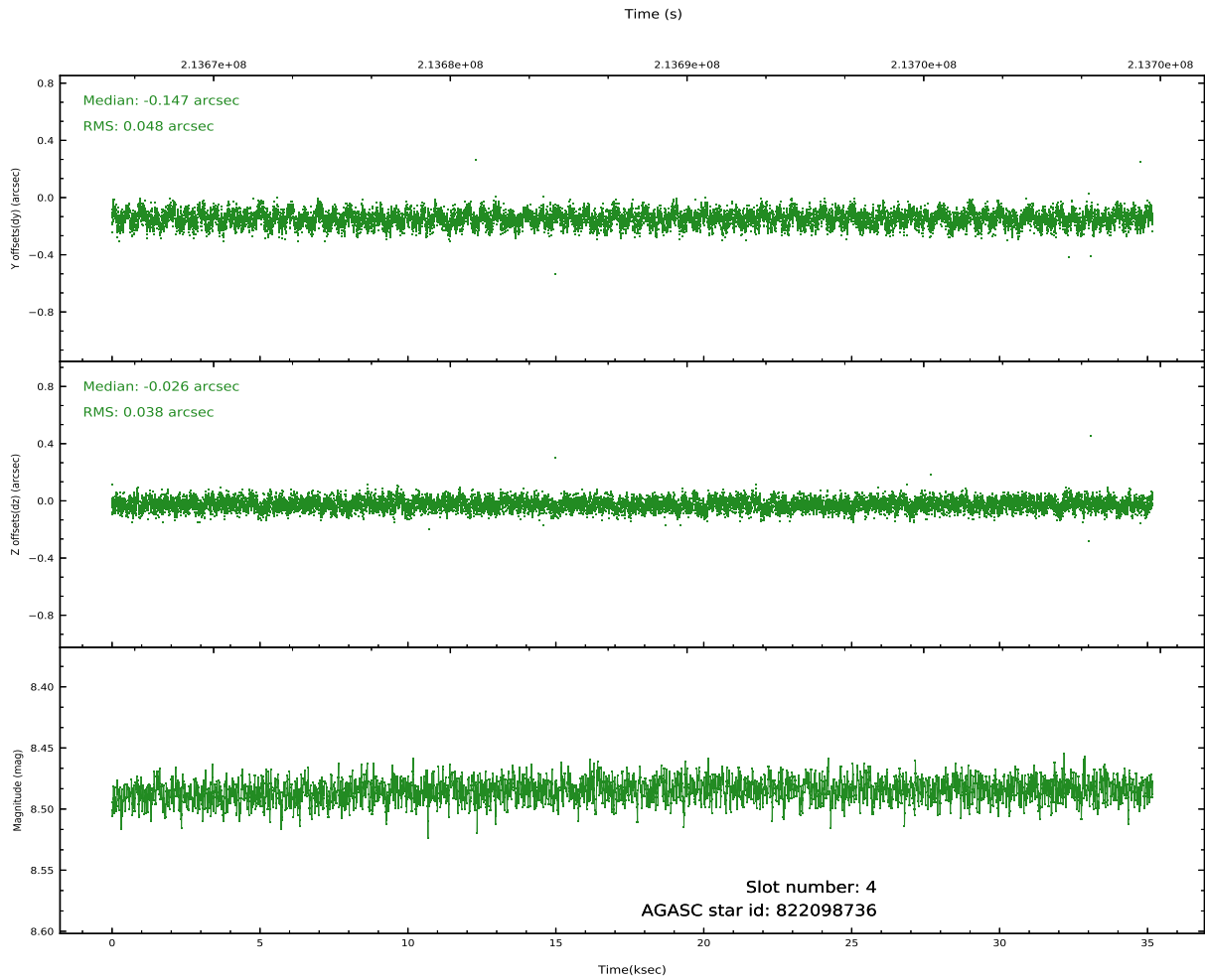
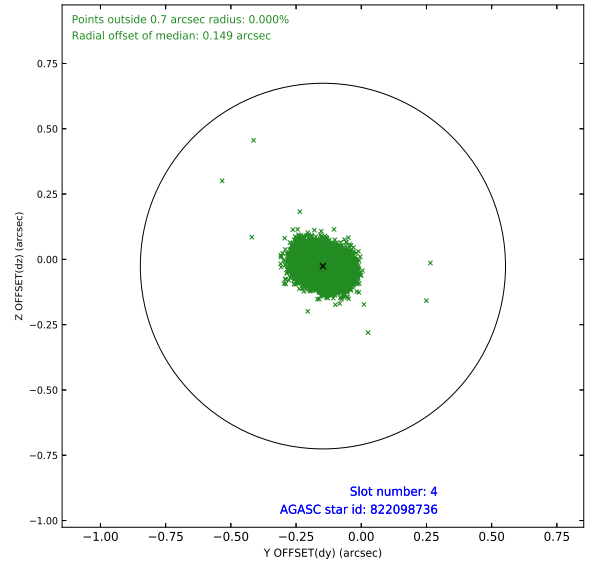
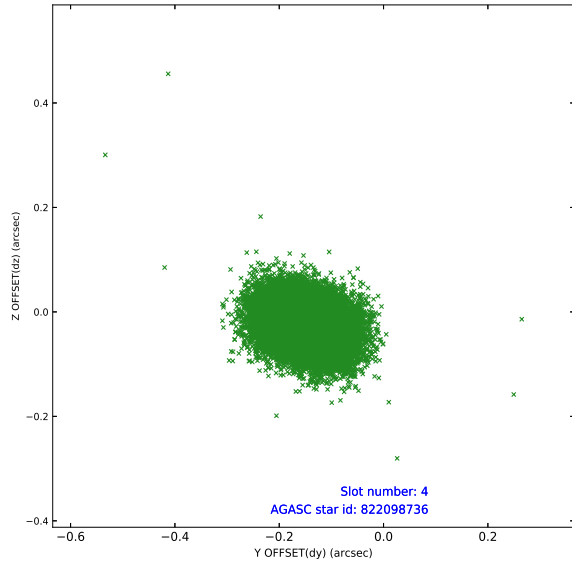
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2.4 Star Slots

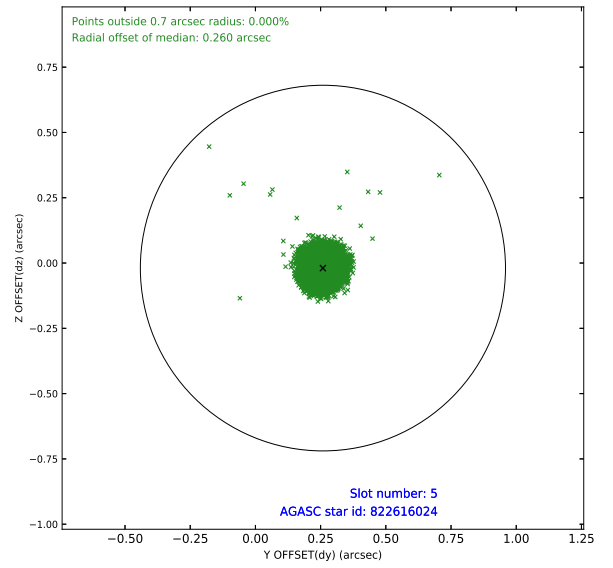
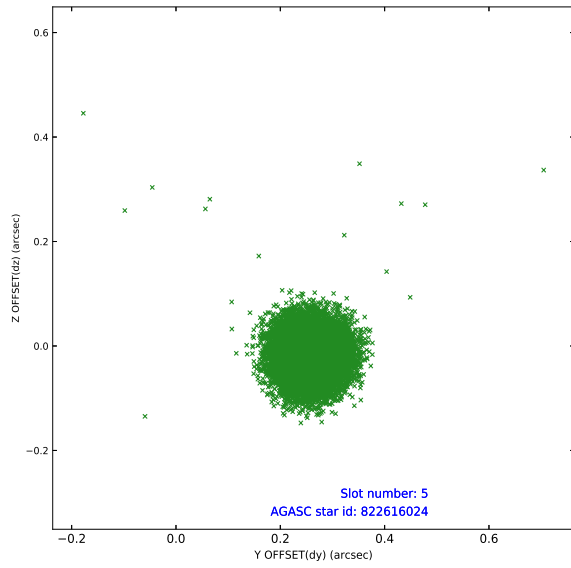
2.4.1 Slot 3



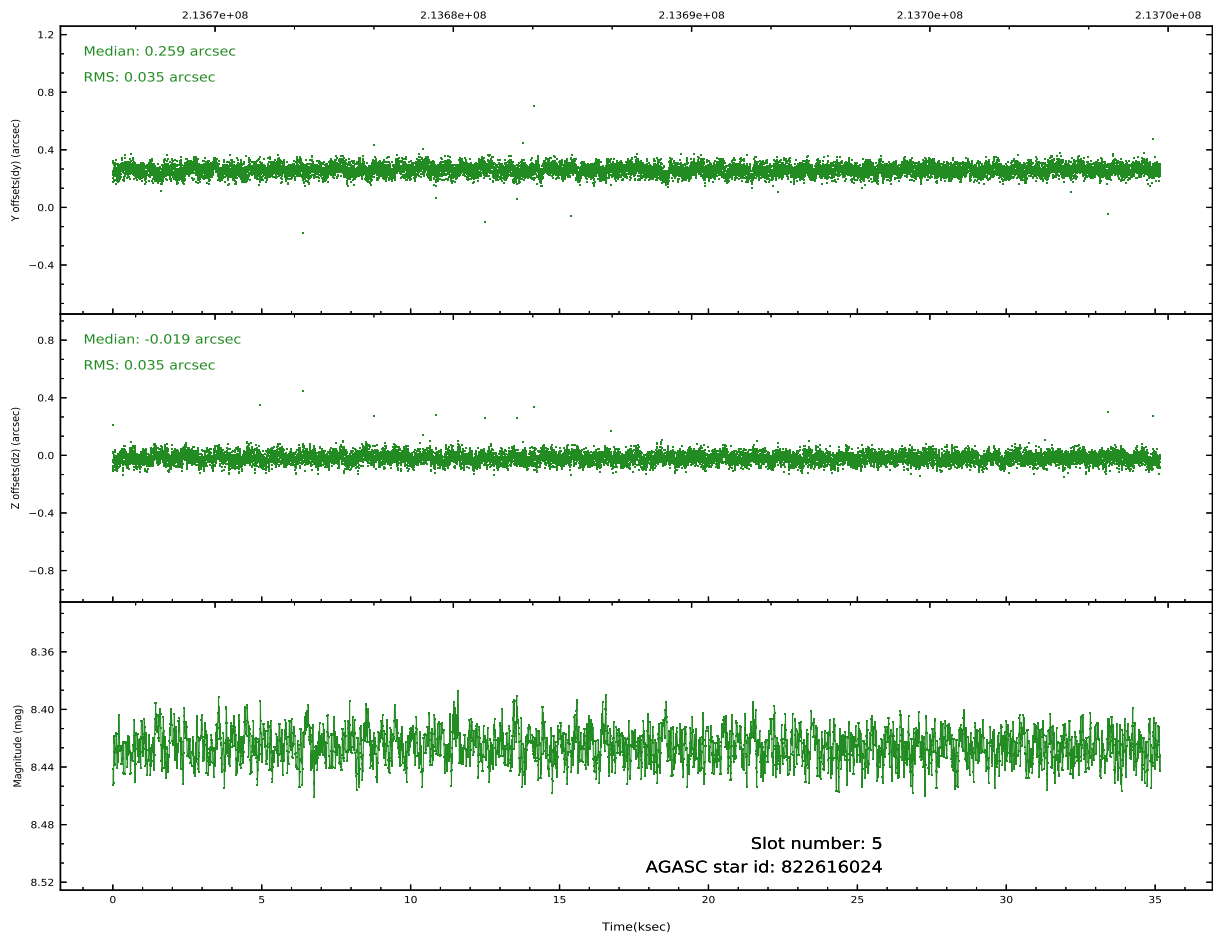
2.4.2 Slot 4



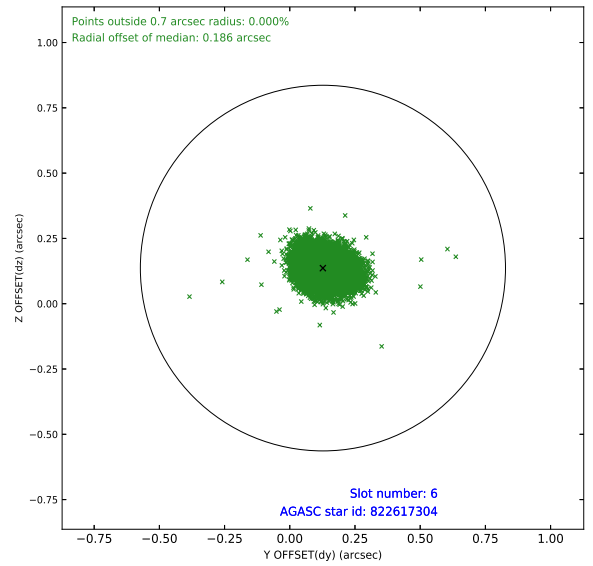
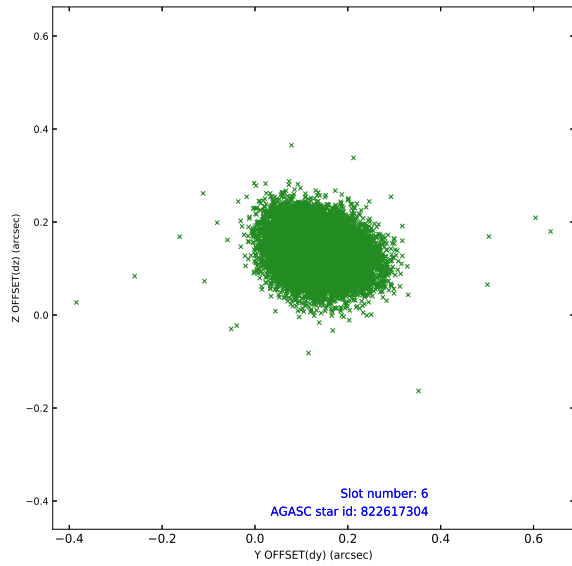
2.4.3 Slot 5



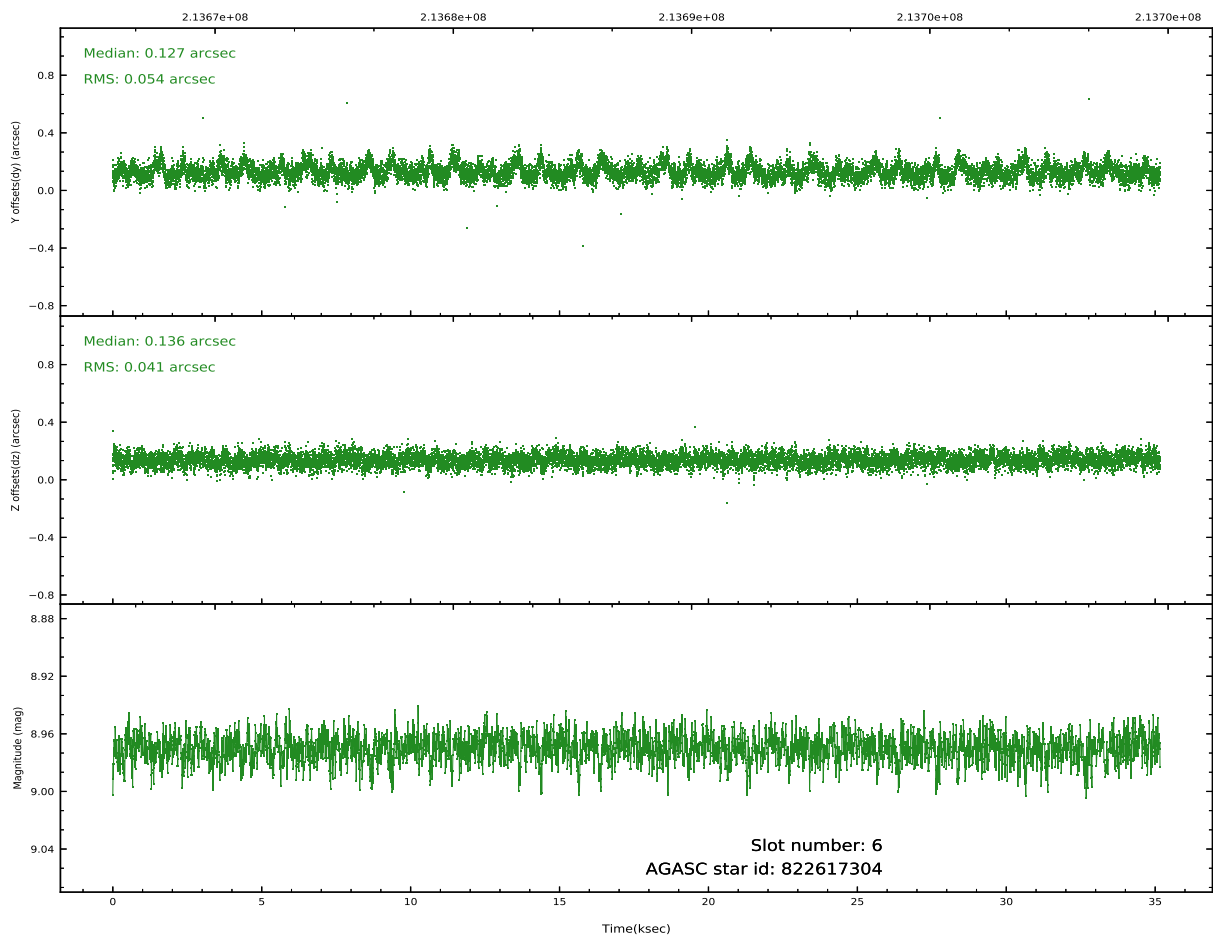
Time (s)



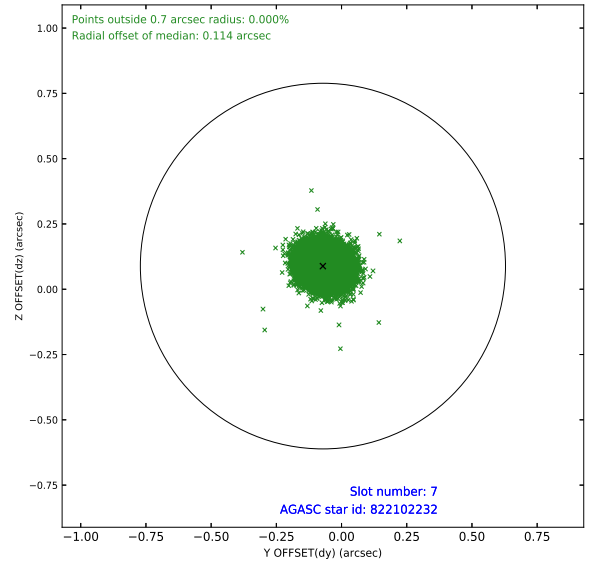
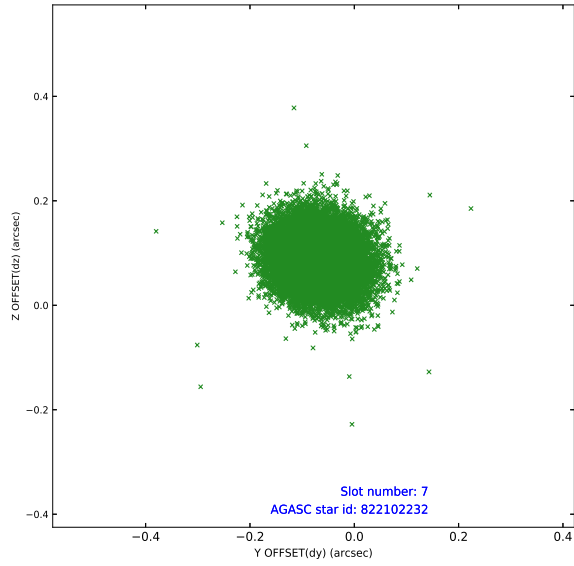
2.4.4 Slot 6



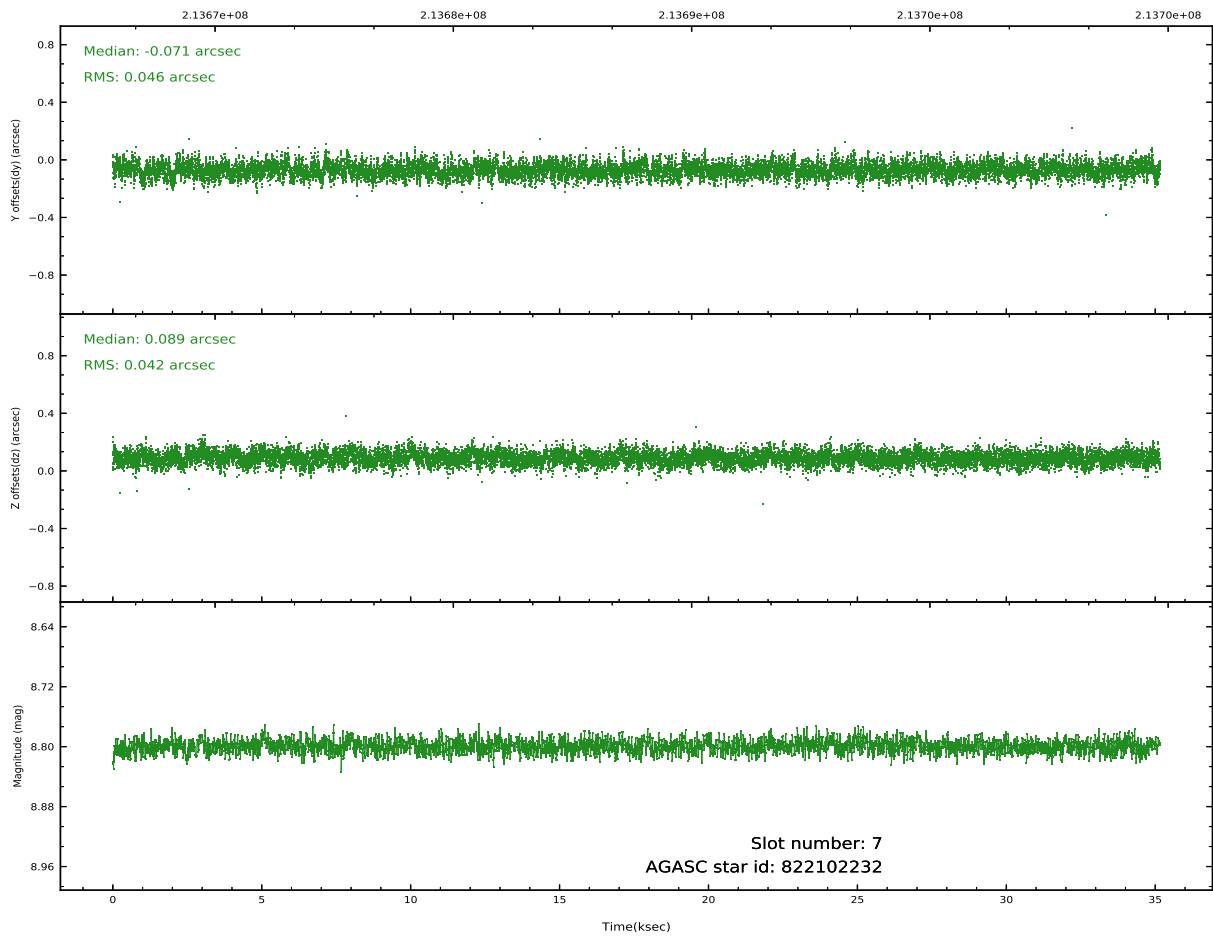
Time (s)



2.4.5 Slot 7

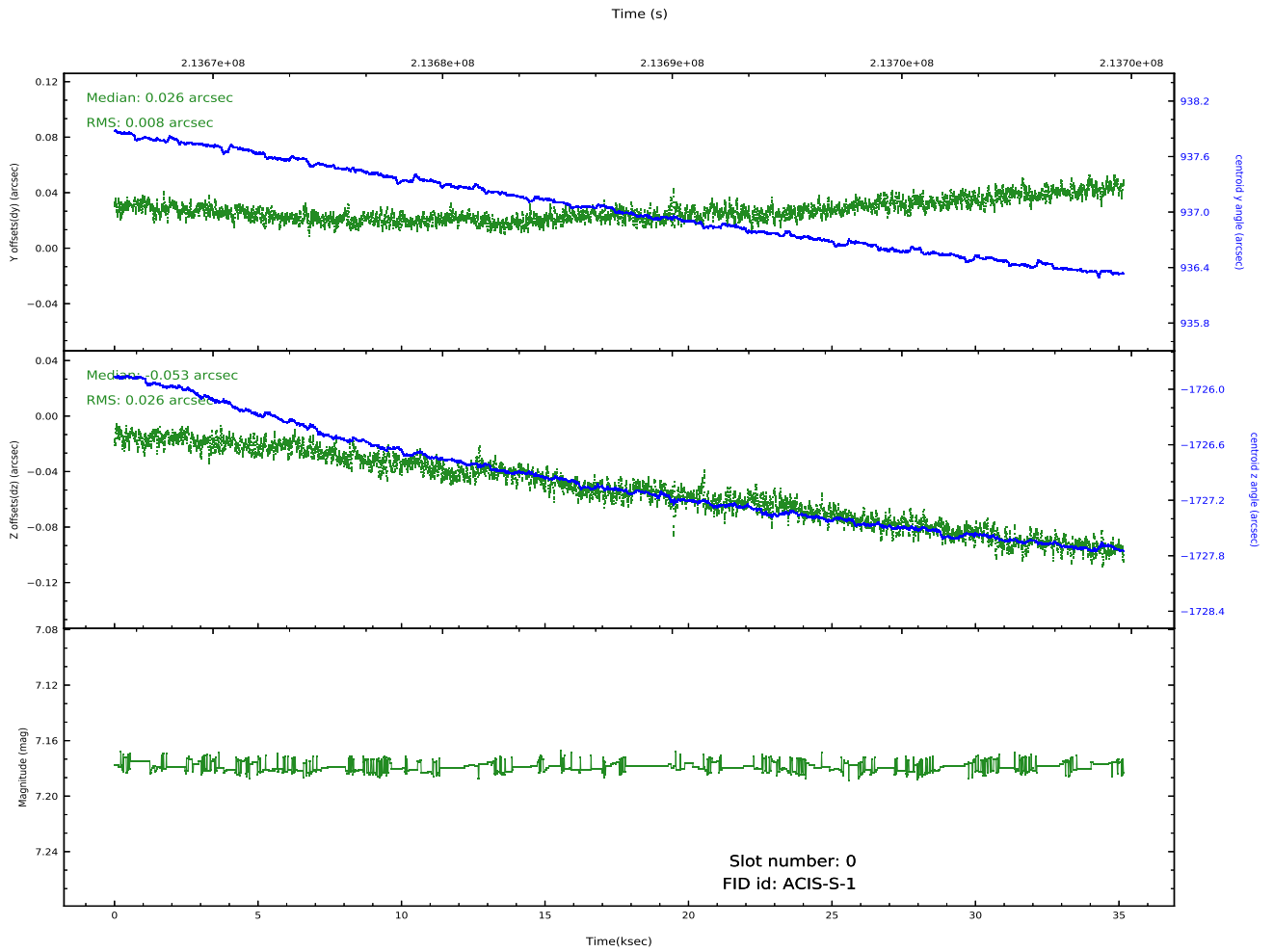
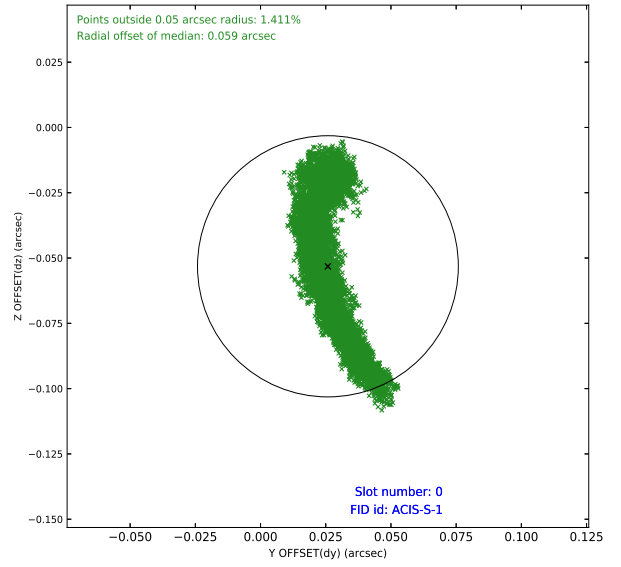
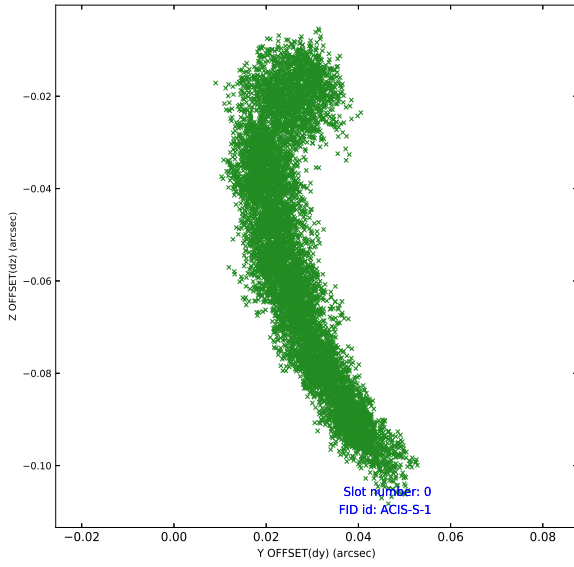


Time (s)

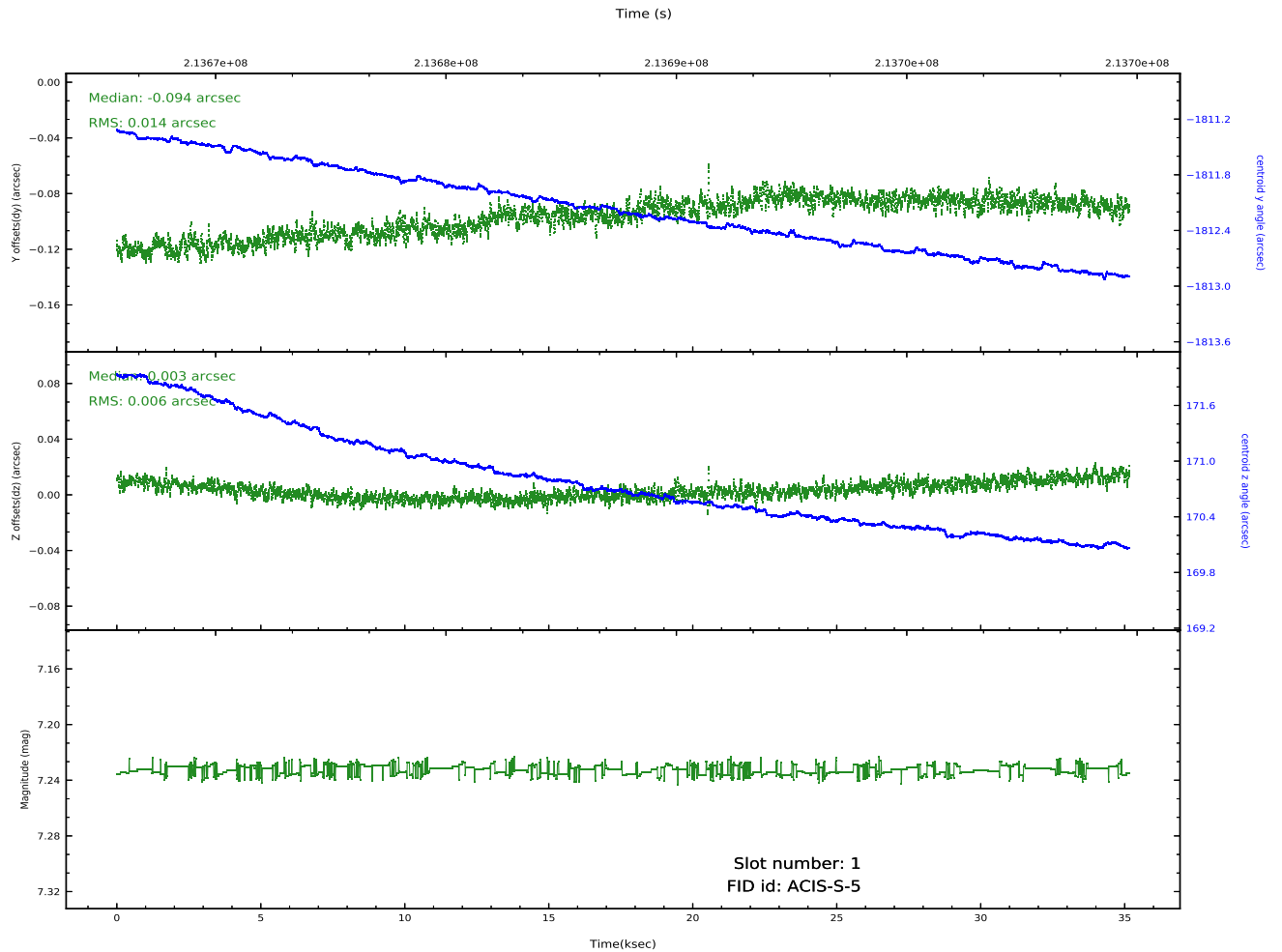
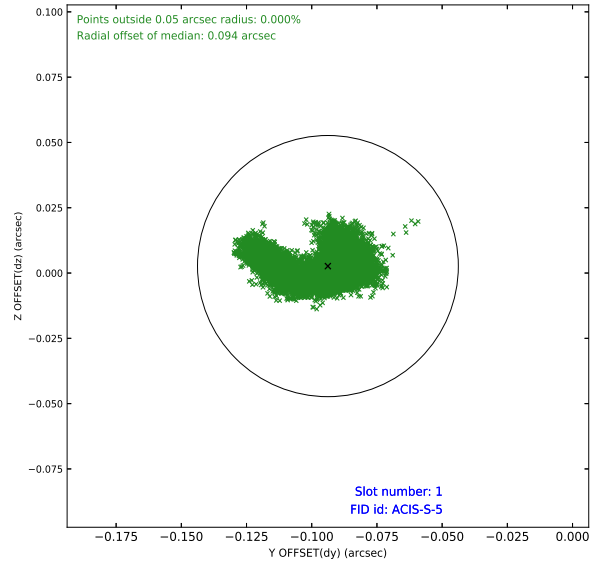
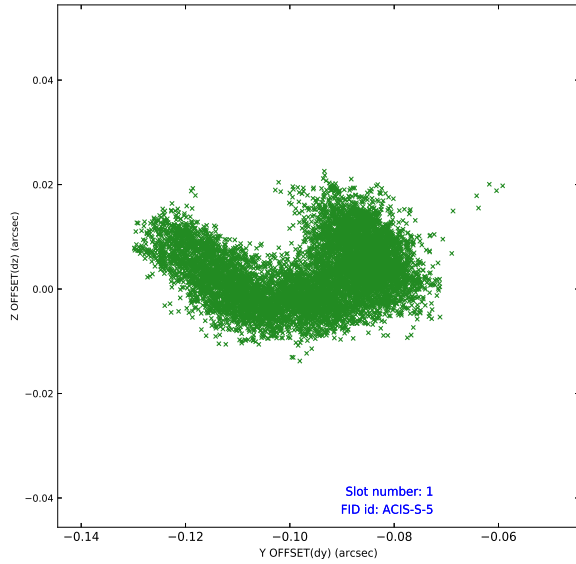


2.5 FID Slots

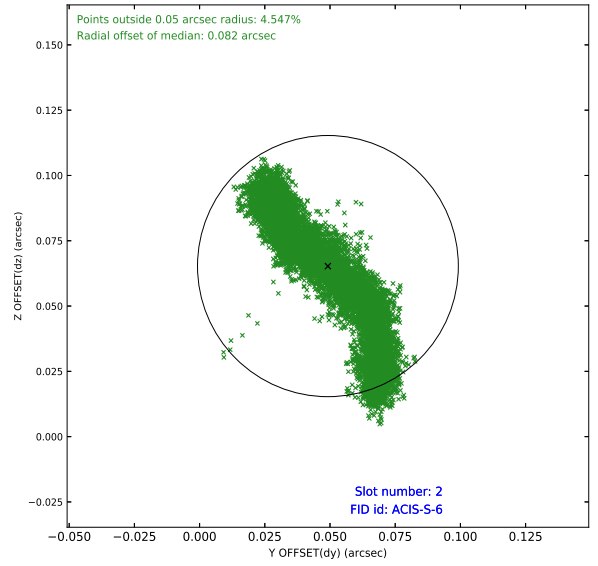
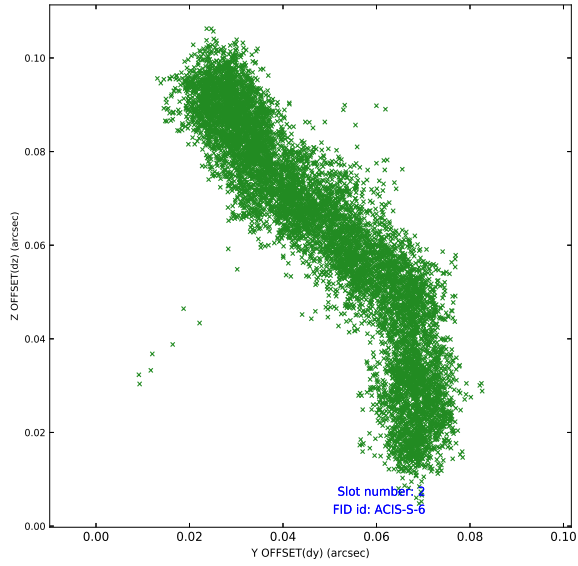
2.5.1 Slot 0



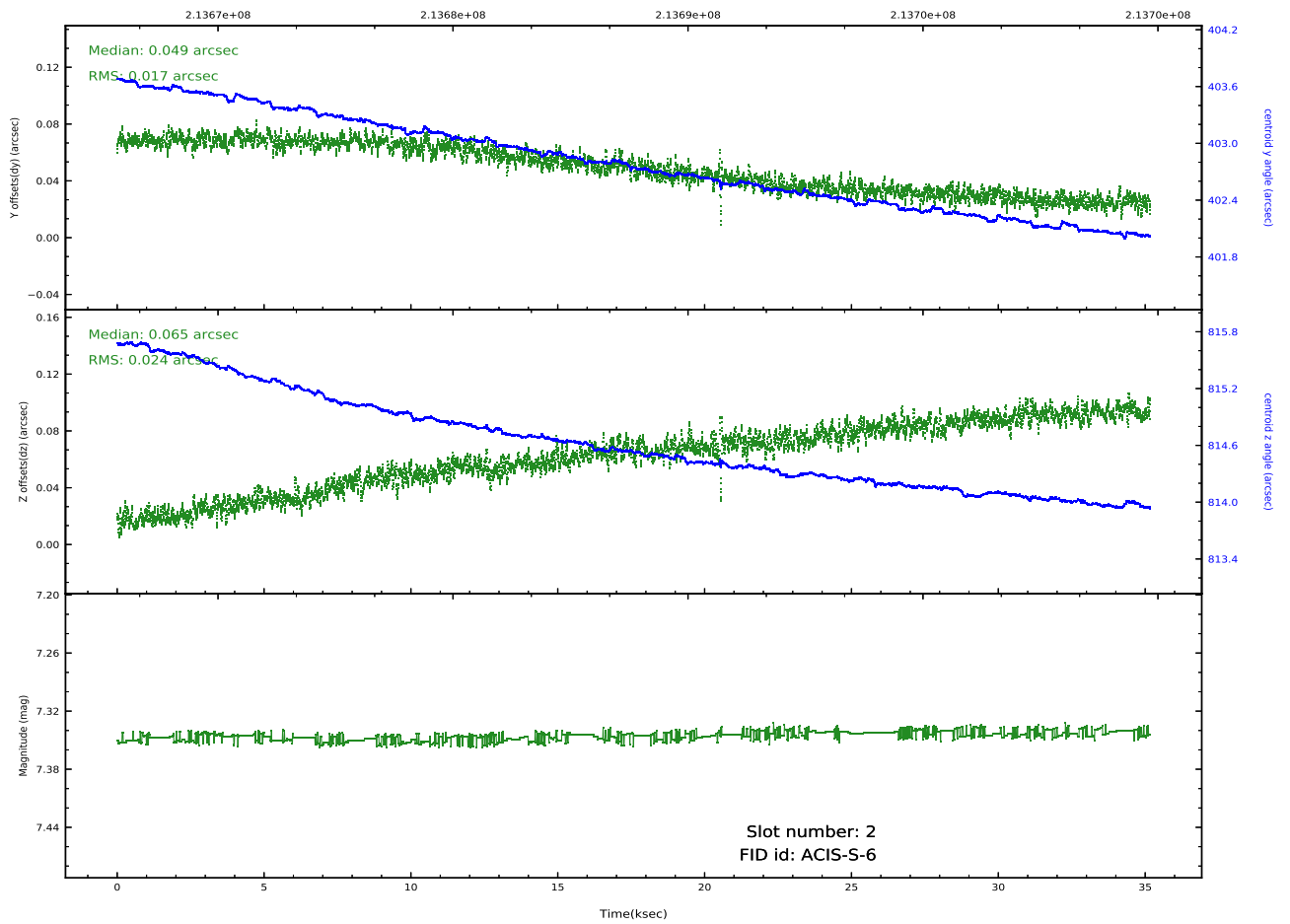
2.5.2 Slot 1



2.5.3 Slot 2



Time (s)



A Summary

A.1 Status

V&V Scientist	David Huenemoerder
V&V Date (YYYY-MM-DD)	2020.10.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	35.164

A.2 Comments