

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 4879 - L2 Version 4
Chandra X-Ray Center

L2 Processing Date : Sep 27 2020

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1 Front

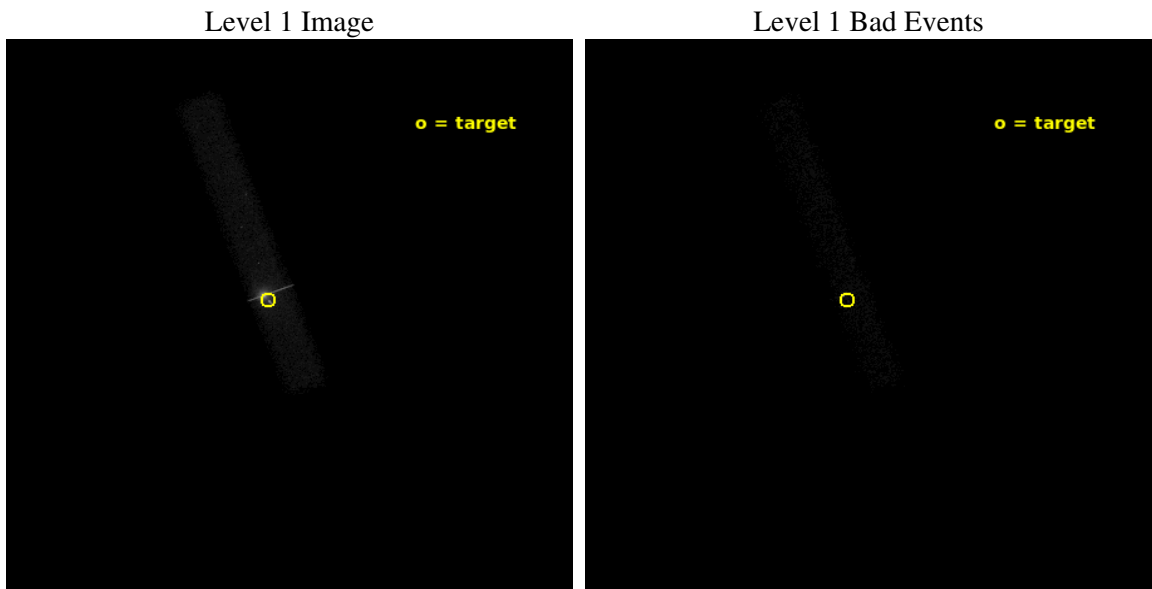
seq_num	700961	Sequence number
obs_id	4879	Observation id
title	The X-ray emission mechanism in 3C273's jet	Proposal title
observer	Dr. Sebastian Jester	Principal investigator
object	3C273-JET	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	187.275833	Observer's specified target RA [deg]
dec_targ	2.050111	Observer's specified target Dec [deg]
ra_nom	187.26673511095	Nominal RA [deg]
dec_nom	2.039395119081	Nominal Dec [deg]
roll_nom	249.57434013965	Nominal Roll [deg]
revision	4	Processing version of data
ontime	39234.000584602	Sum of GTIs [s]
livetime	35583.167589881	Livetime [s]
ontime7	39234.000584602	Sum of GTIs [s]
l2events	102994	Number of level 2 events



2 OBI

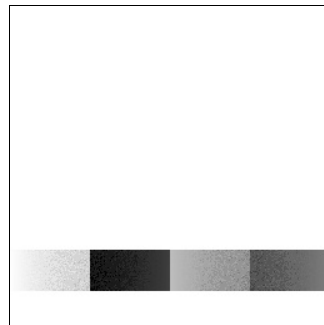
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	2	Obi number	sched_exp_time	39060.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	39234.000584602	Sum of GTIs [s]
caldbver	4.9.2	 	ontime7	39234.000584602	Sum of GTIs [s]
date	2020-09-27T13:48:45	Date and time of file creation	l1events	208115	Number of level 1 events
revision	4	Processing version of data			

2.1.4 Events

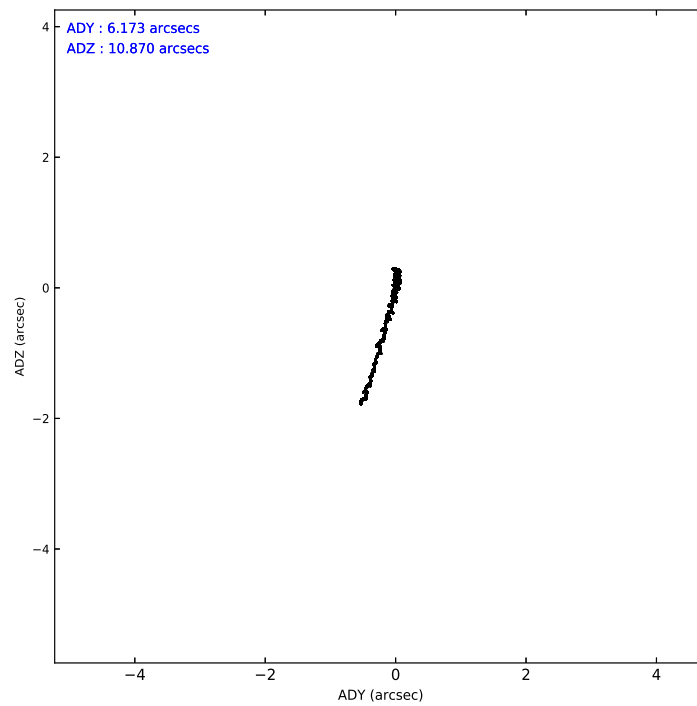
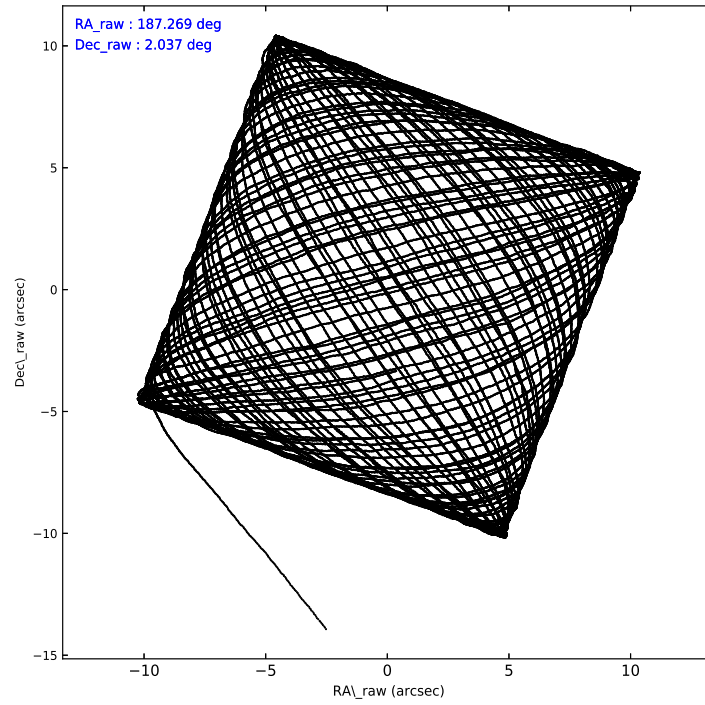
	ccd 7
level 1 events	208115
rejected events	104481
rejected %	50%

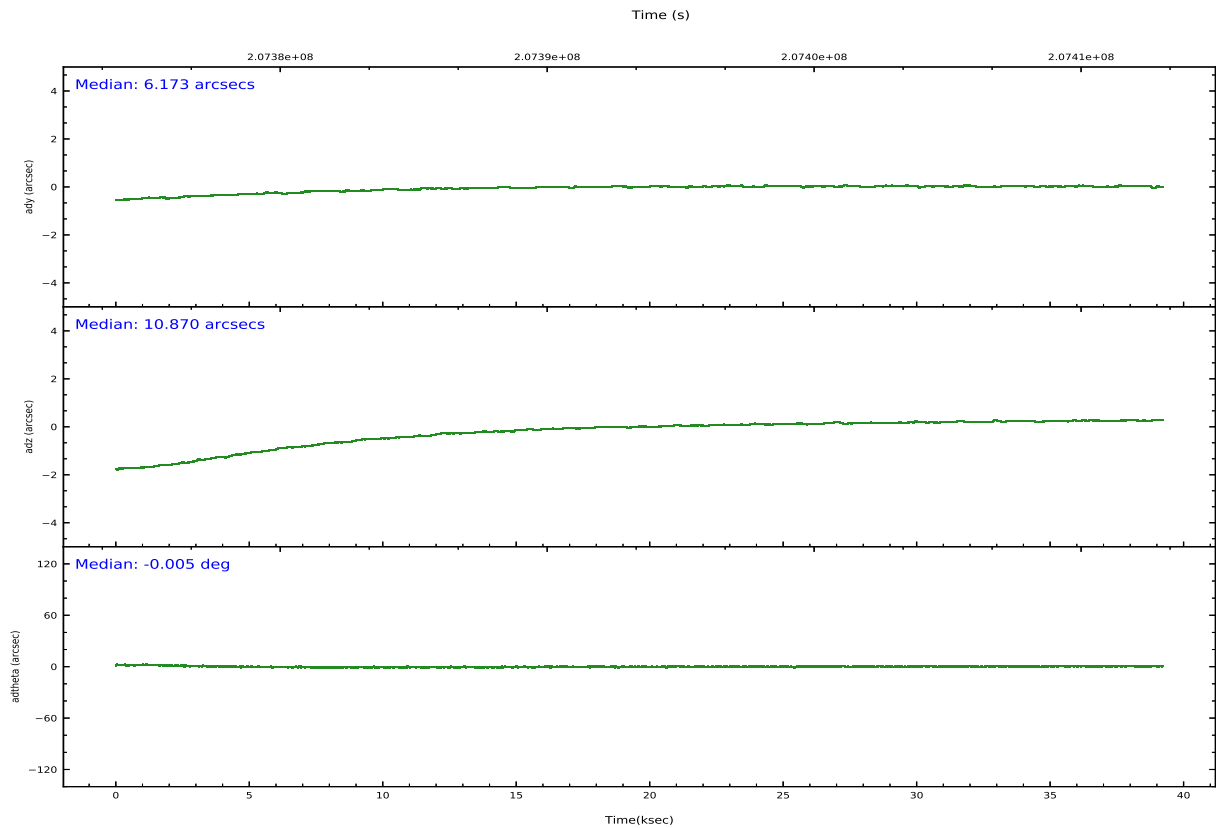
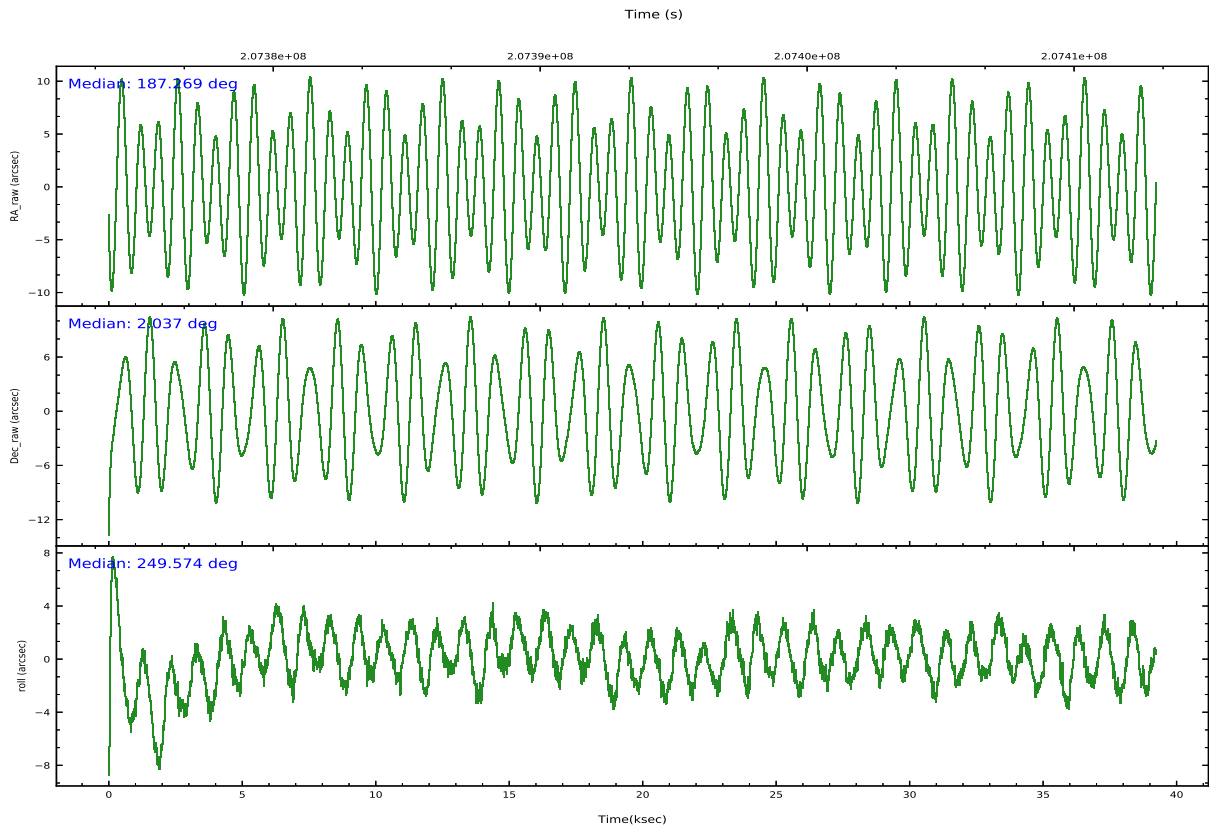
	ccd 7
grade 0 events	20340
	9%
grade 1 events	2332
	1%
grade 2 events	20736
	9%
grade 3 events	10309
	4%
grade 4 events	9811
	4%
grade 5 events	14680
	7%
grade 6 events	43138
	20%
grade 7 events	86769
	41%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-7	ACIS-7	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	187.264084	187.26673511095	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	2.063419	2.039395119081	Subarray start row	115	115
[deg] Pointing Roll	249.414993	249.57434013965	Subarray row count	128	128
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	0.4
[mm] SIM translation stage pos	-182.132523	-182.1344861297048			
[mm] SIM translation stage offset	-8	-7.998036453302973			
[s] Observation start time (MET)	207374014.184000	207372997.23057			
Observation start date	2004-07-28T03:52:30	2004-07-28T03:36:37			
[s] Observation end time (MET)	207413074.184000	207413868.59489			
Observation end date	2004-07-28T14:43:30	2004-07-28T14:57:48			
Read mode	TIMED	TIMED			

2.3 Aspect



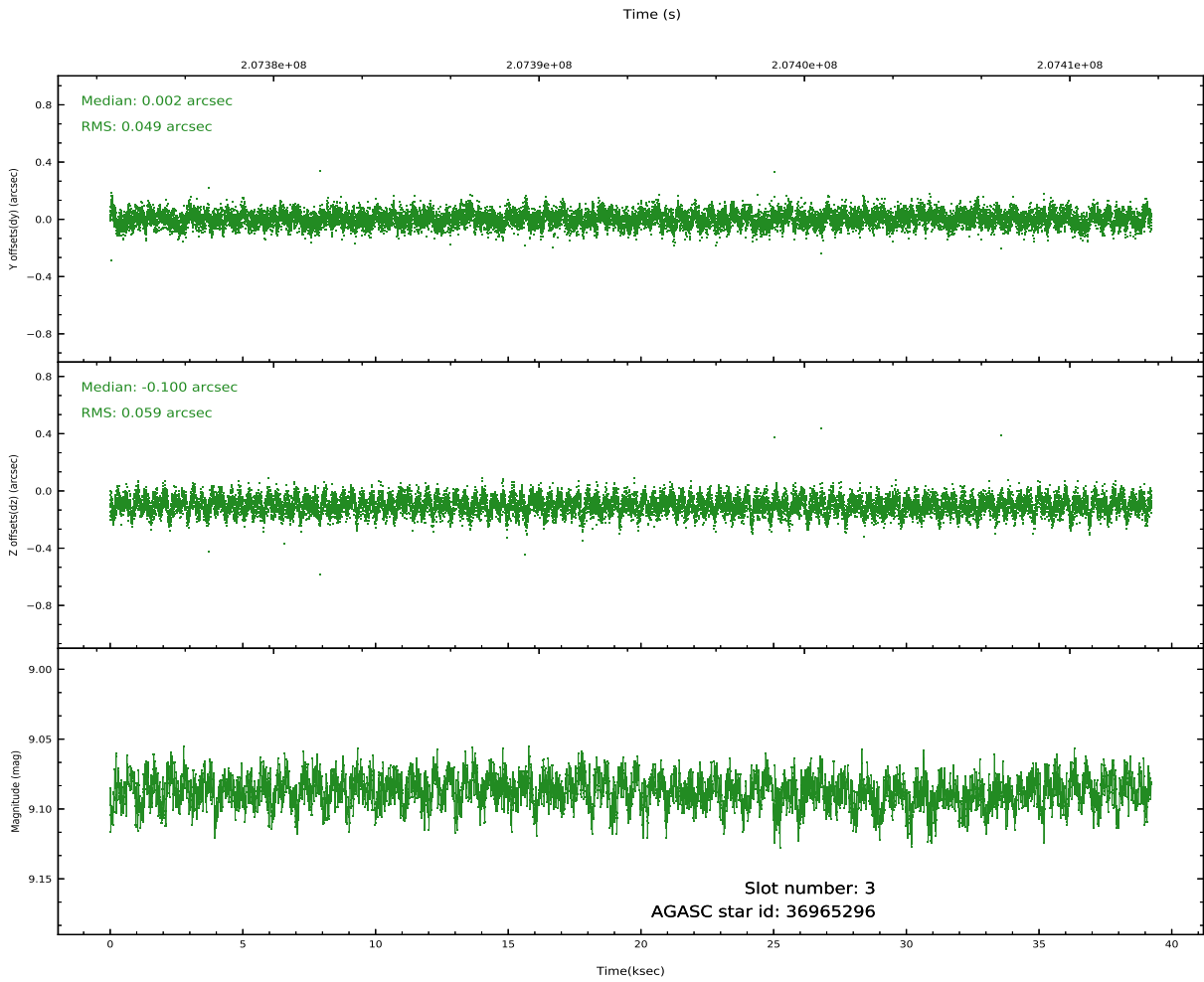
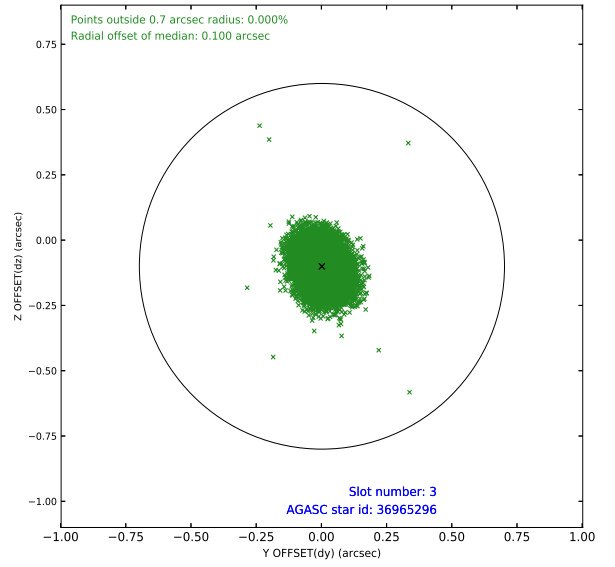
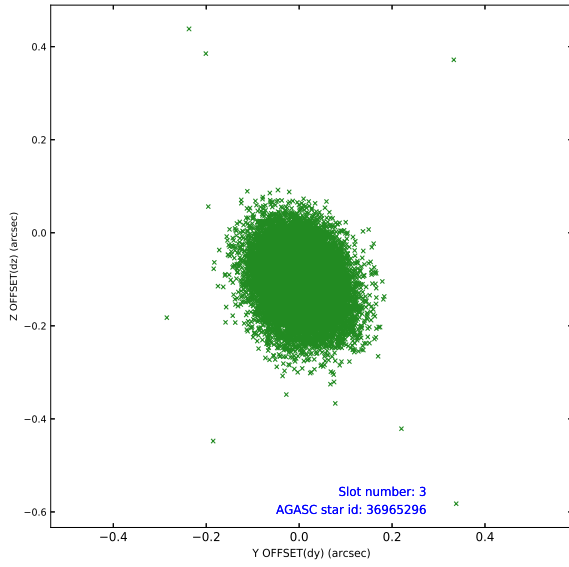


Slot Statistics

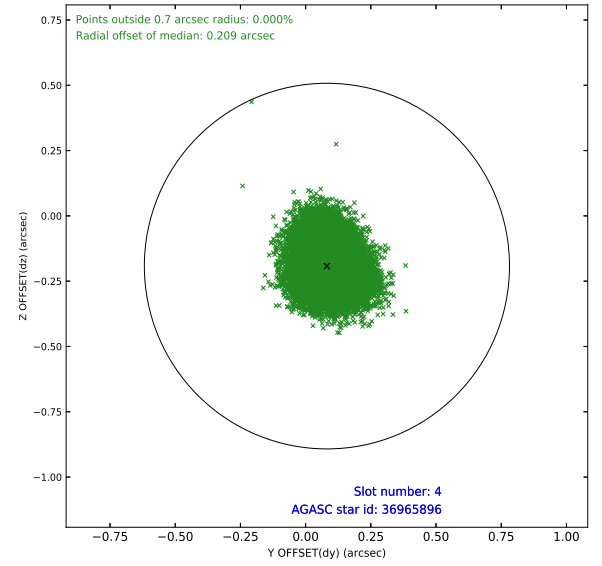
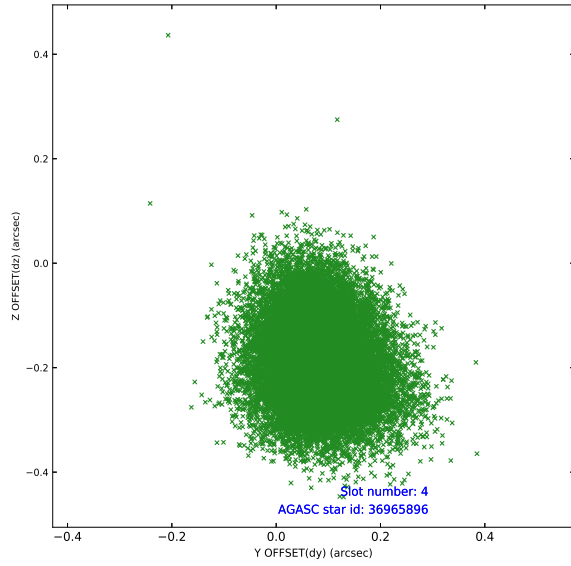
slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_x
0	FID		ACIS-S-2	7.08	9569	1.000	-0.108	-0.155	0.016	0.030	0.000000	0.000000	-758.33	-1896
1	FID		ACIS-S-4	7.18	9569	1.000	0.197	0.092	0.011	0.026	0.000000	0.000000	2155.22	11
2	FID		ACIS-S-5	7.23	9570	1.000	-0.121	0.070	0.015	0.030	0.000000	0.000000	-1811.19	5
3	GUIDE	used	36965296	9.09	19127	1.000	0.002	-0.100	0.080	0.132	186.926292	1.837429	1189.18	-851
4	GUIDE	used	36965896	9.71	19121	1.000	0.082	-0.192	0.114	0.181	187.153754	1.617178	1643.92	193
5	GUIDE	used	37356352	7.69	19139	1.000	-0.435	-0.074	0.053	0.085	187.433784	2.618460	-2085.18	-131
6	GUIDE	used	37883040	10.02	19128	1.000	0.248	0.236	0.124	0.208	187.575516	1.280402	2245.23	2040
7	GUIDE	used	36963280	9.65	19060	1.000	0.100	0.132	0.104	0.169	186.985307	1.456816	2397.52	-171

2.4 Star Slots

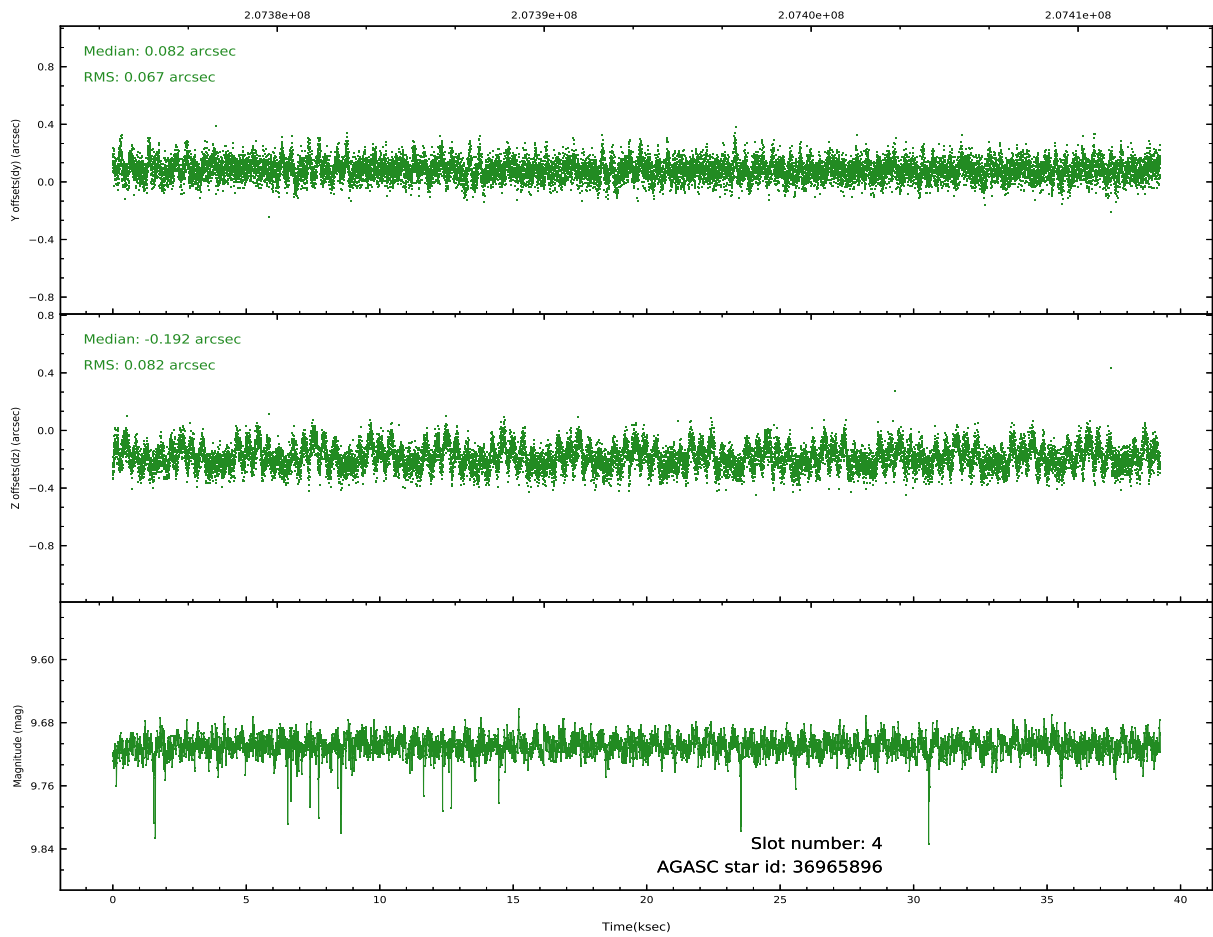
2.4.1 Slot 3



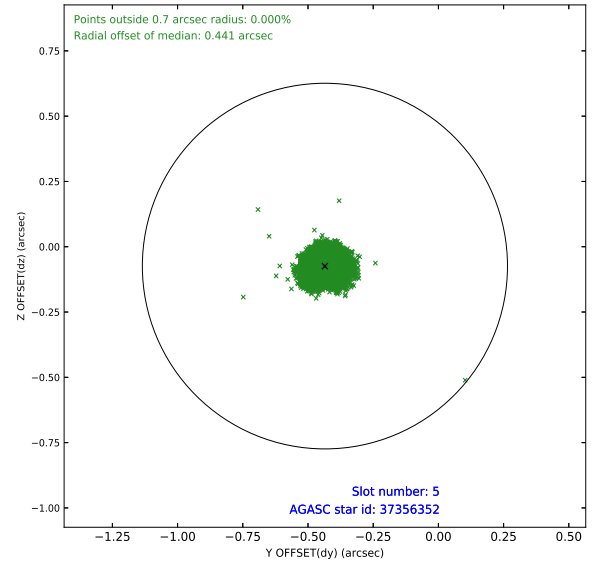
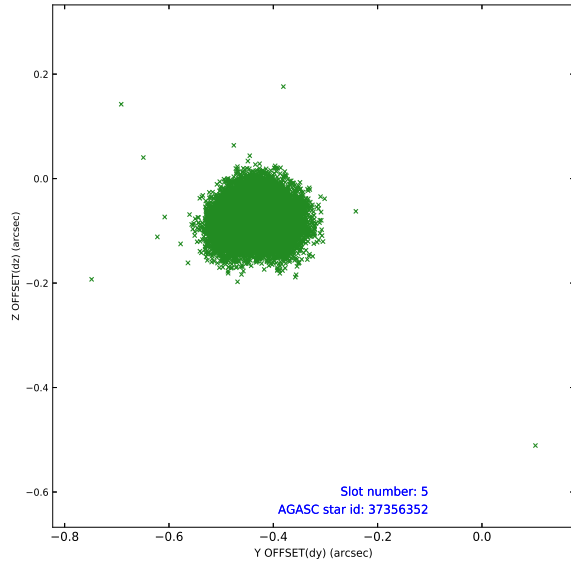
2.4.2 Slot 4



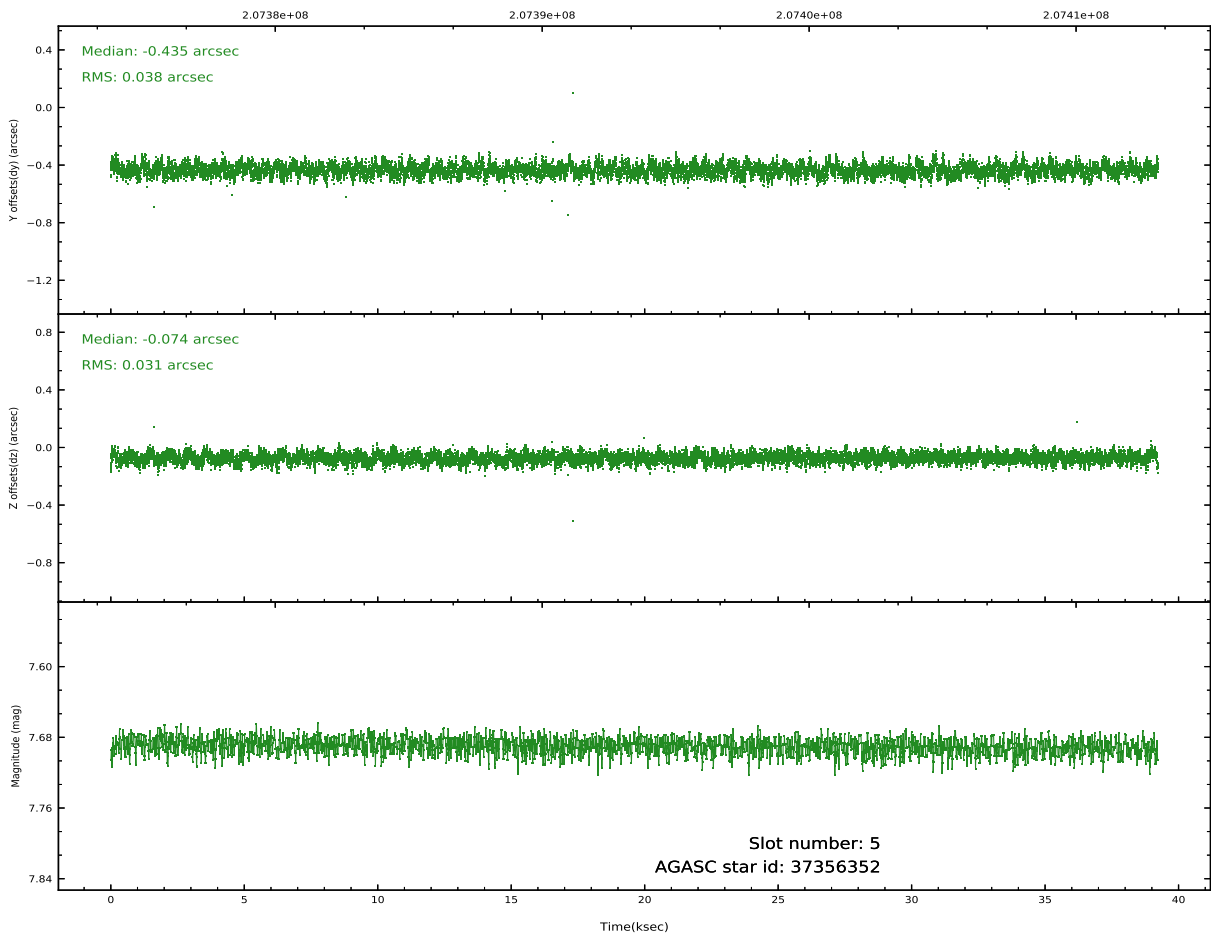
Time (s)



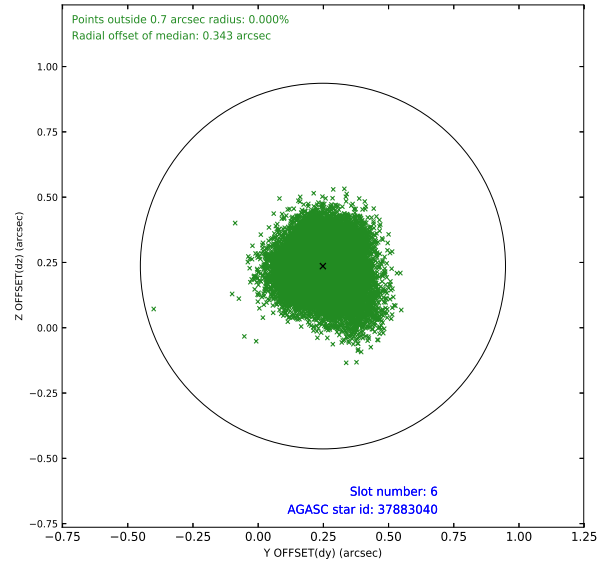
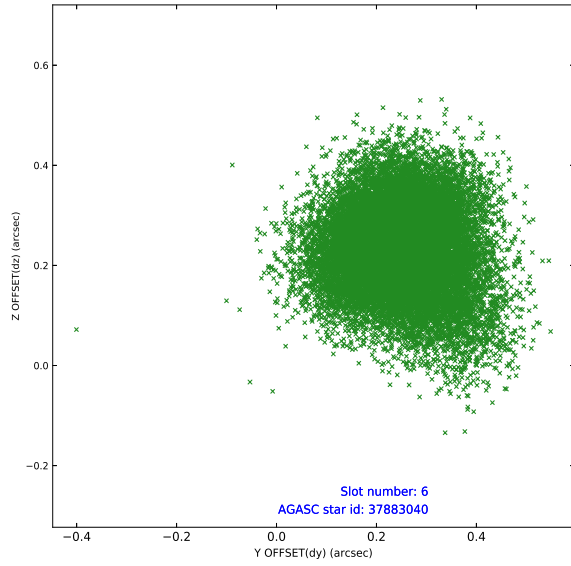
2.4.3 Slot 5



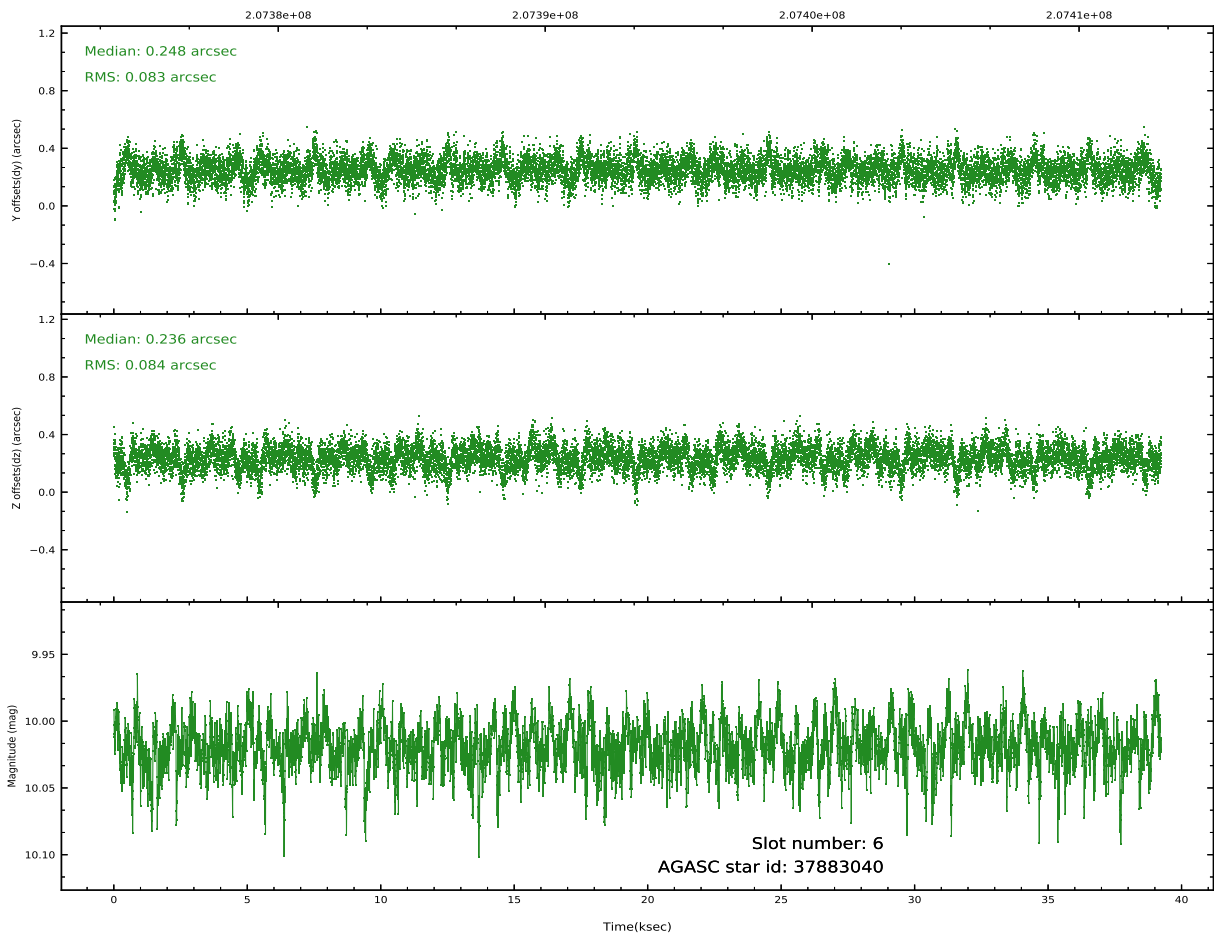
Time (s)



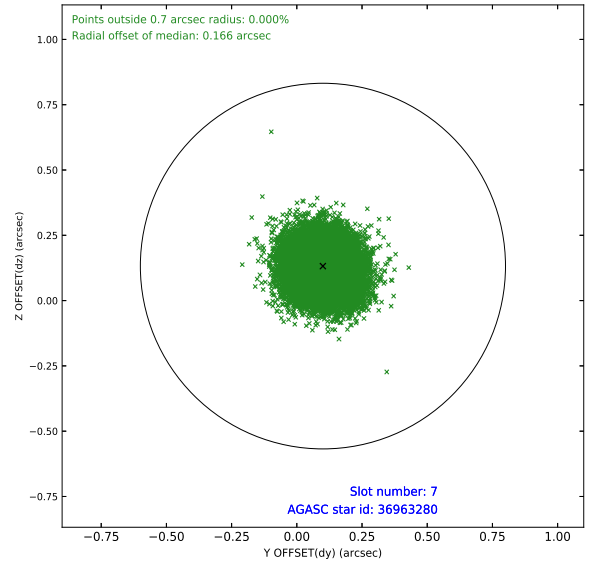
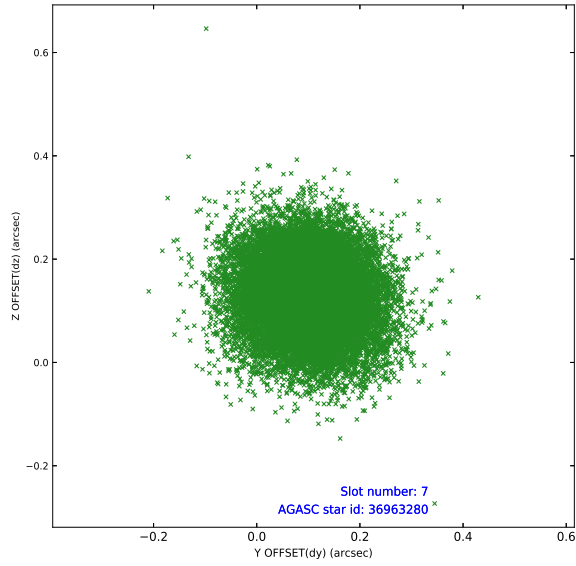
2.4.4 Slot 6



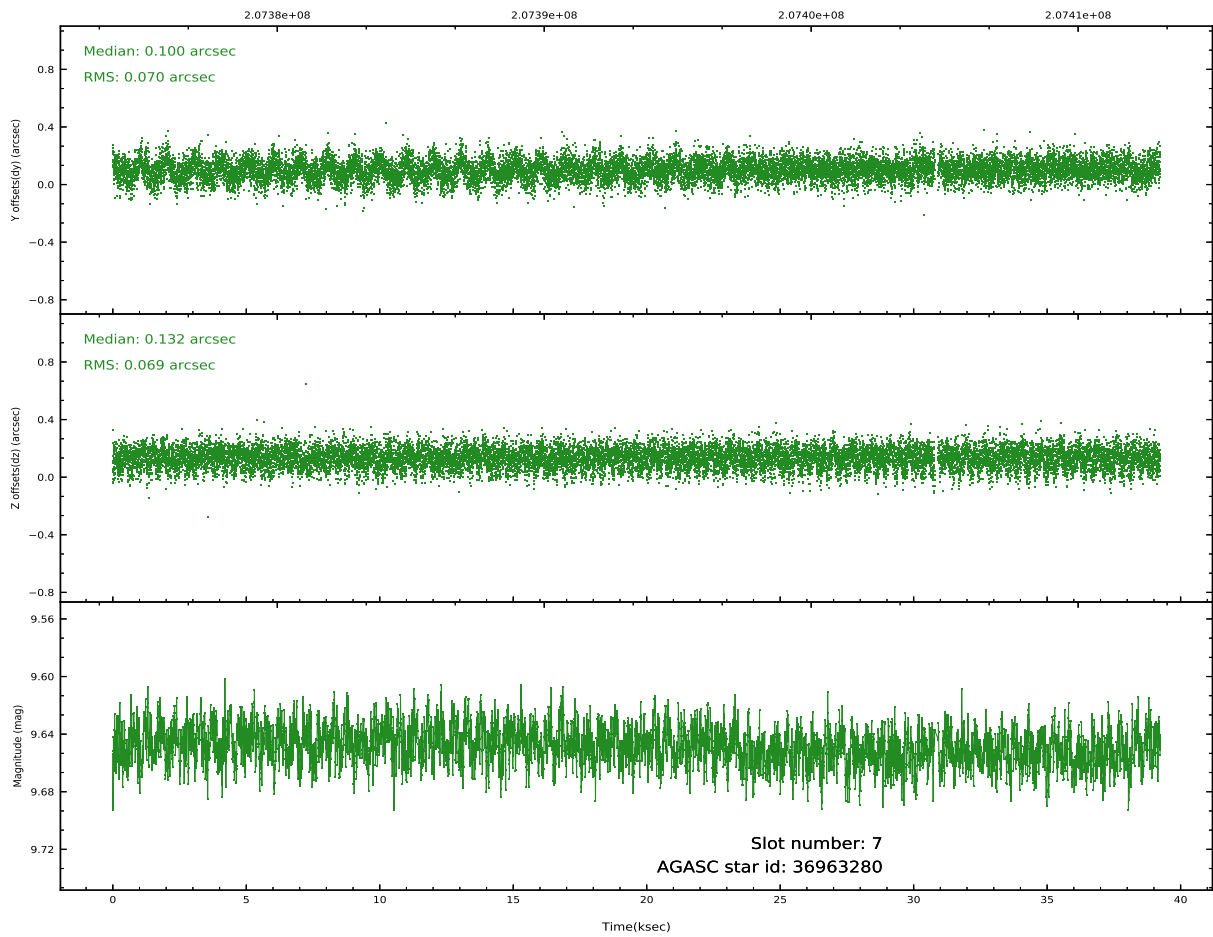
Time (s)



2.4.5 Slot 7

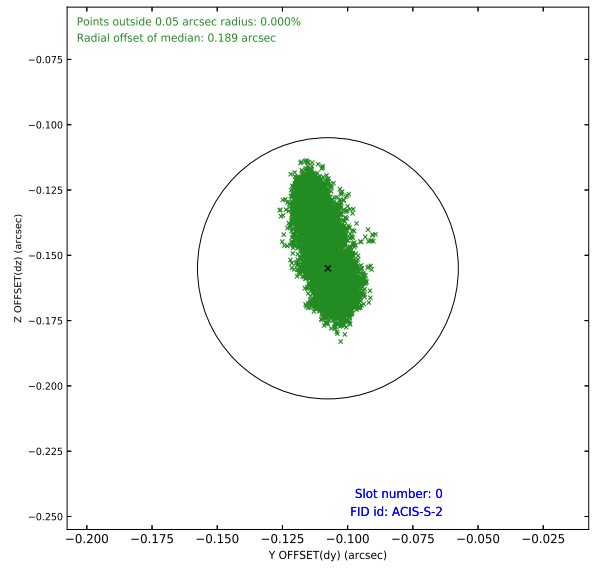
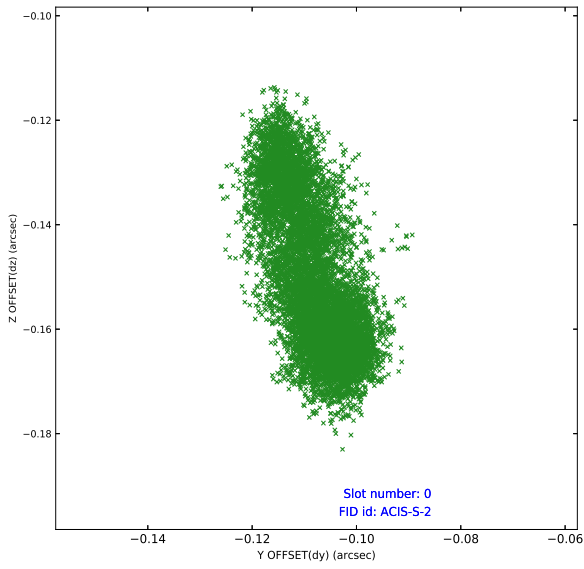


Time (s)

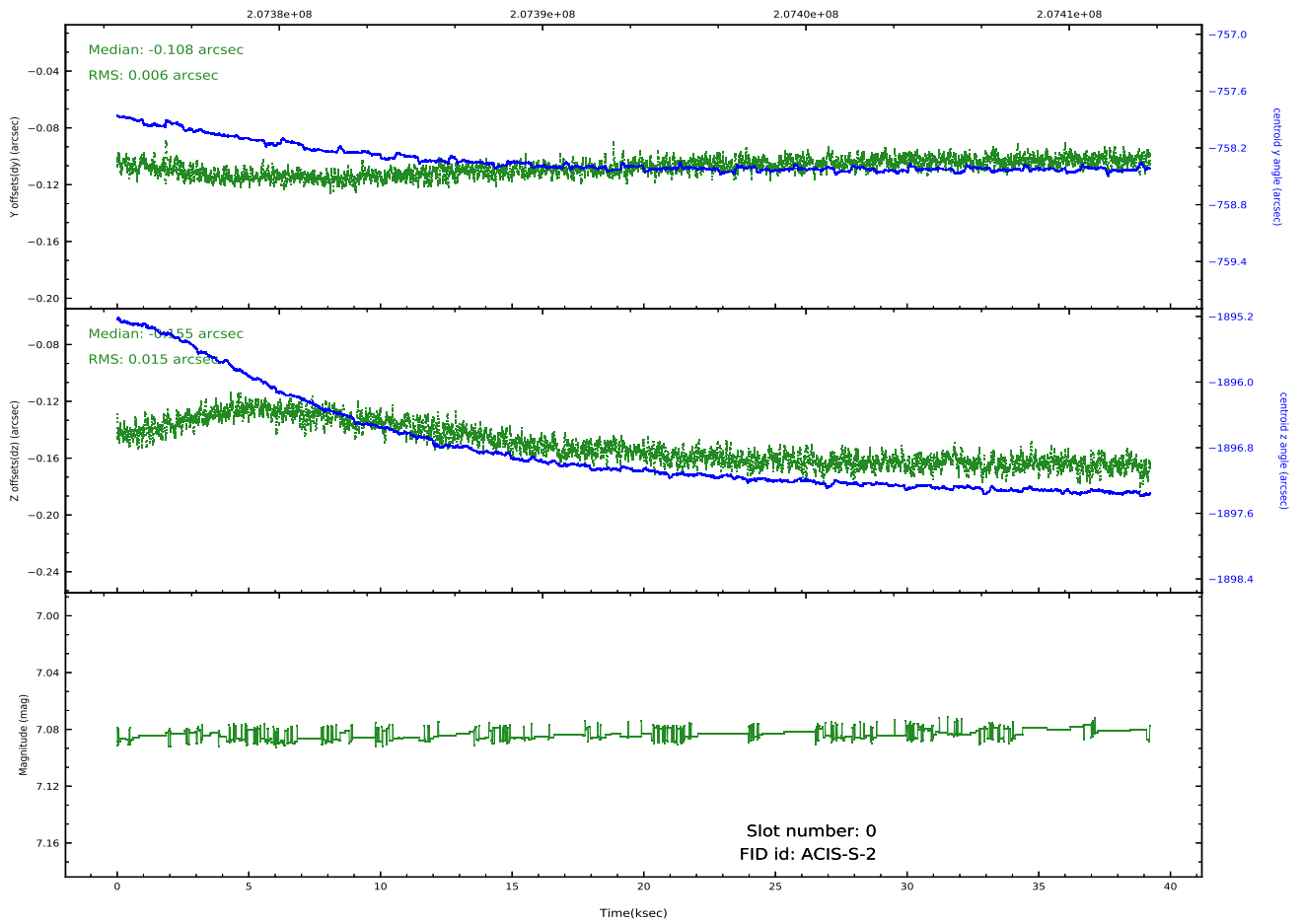


2.5 FID Slots

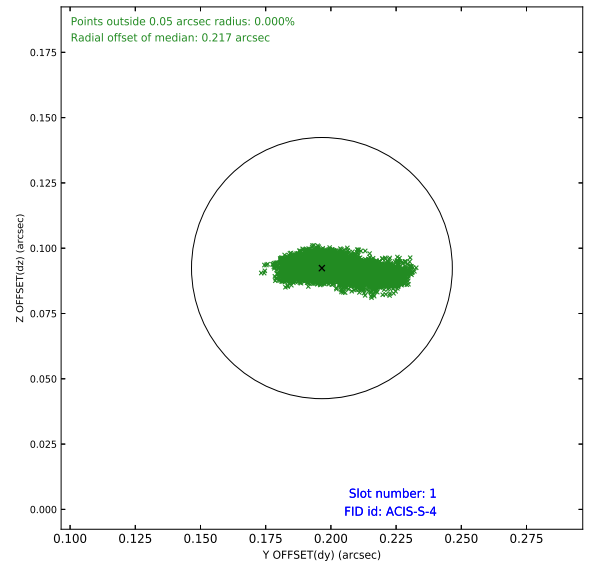
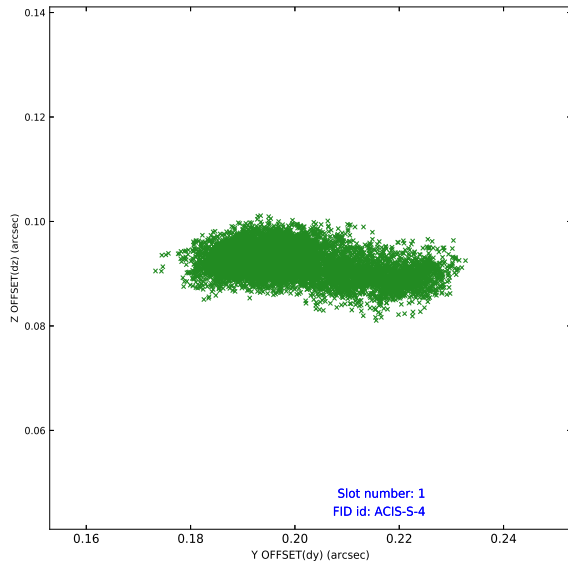
2.5.1 Slot 0



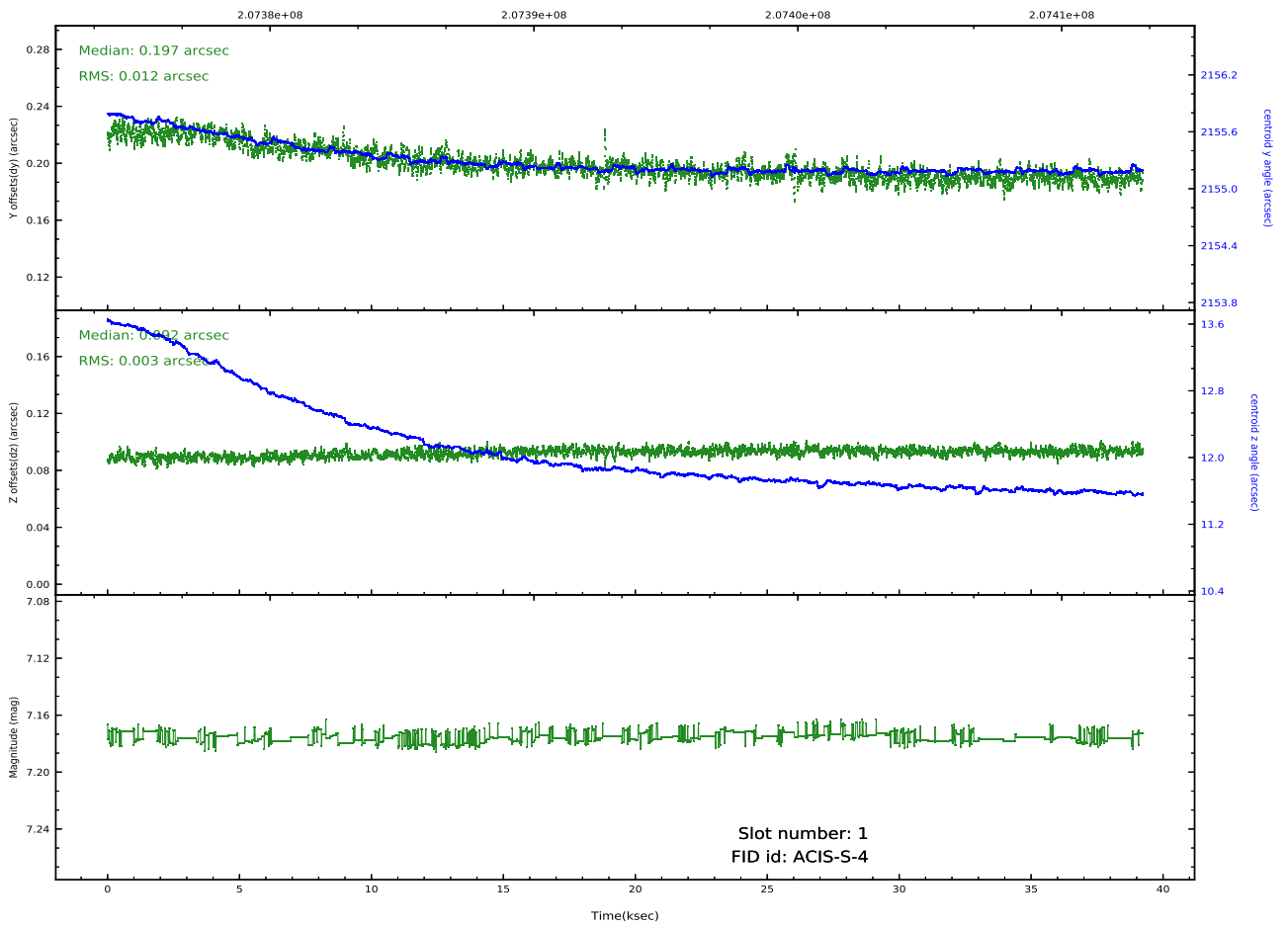
Time (s)



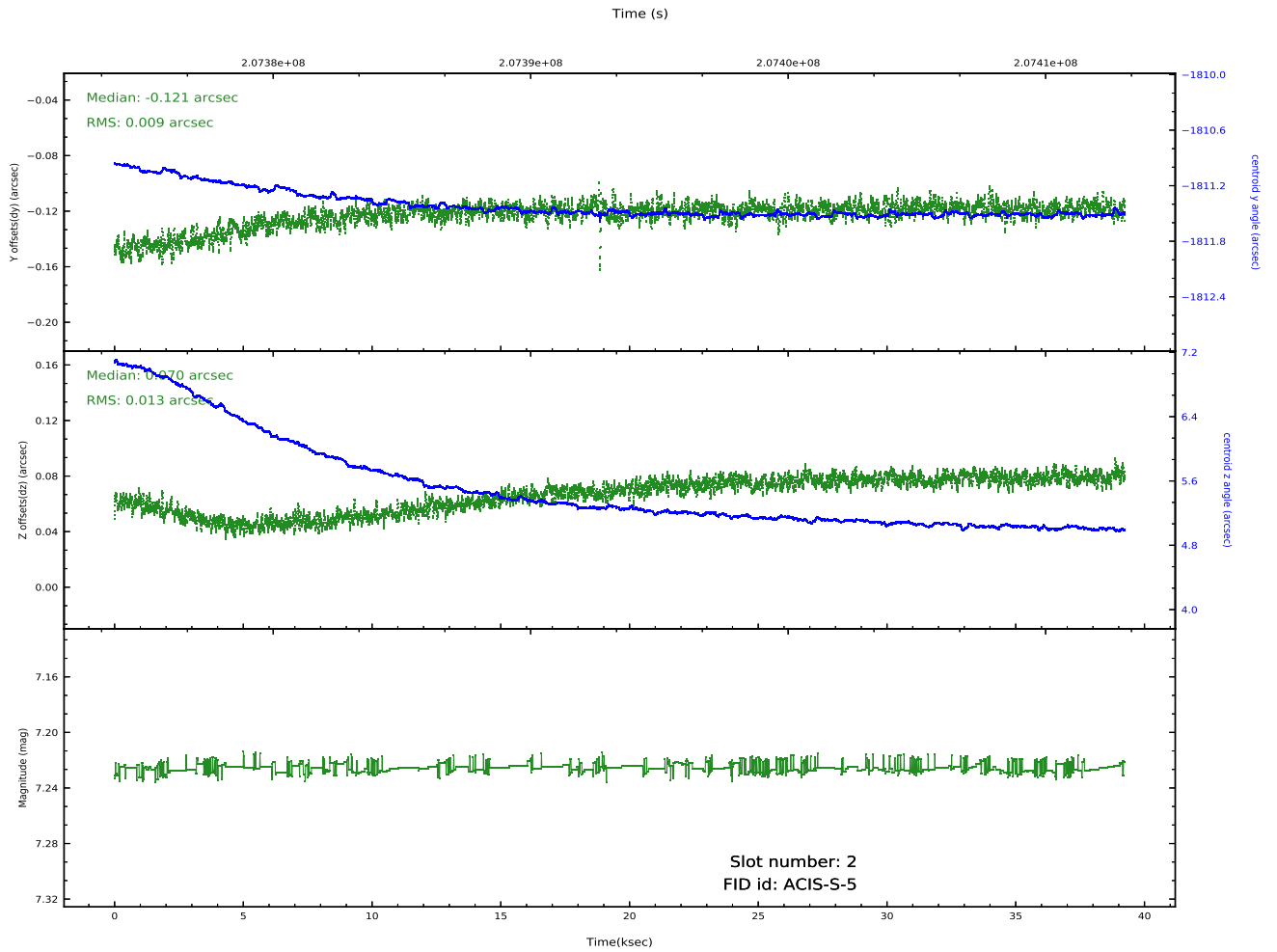
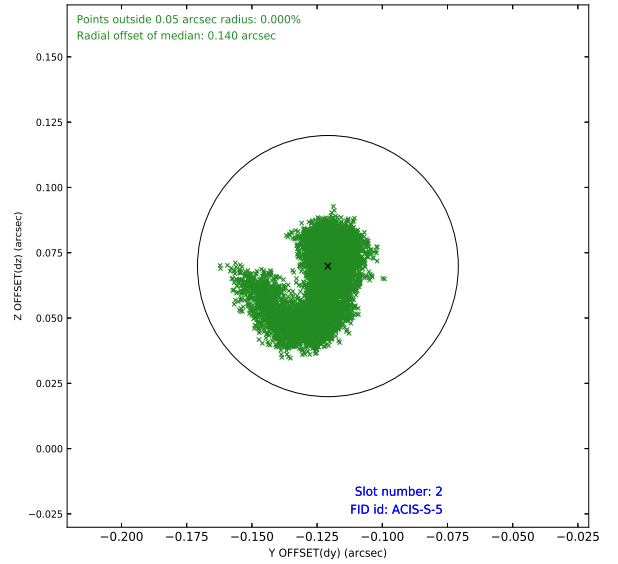
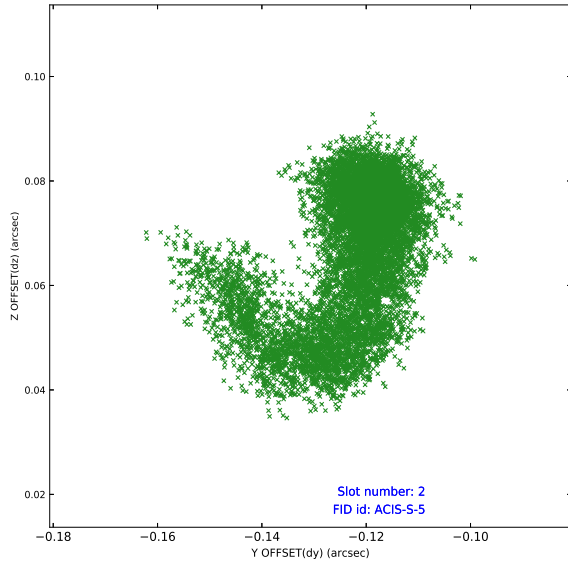
2.5.2 Slot 1



Time (s)



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2020.09.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	39.234

A.2 Comments