

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20410 - L2 Version 2
Chandra X-Ray Center

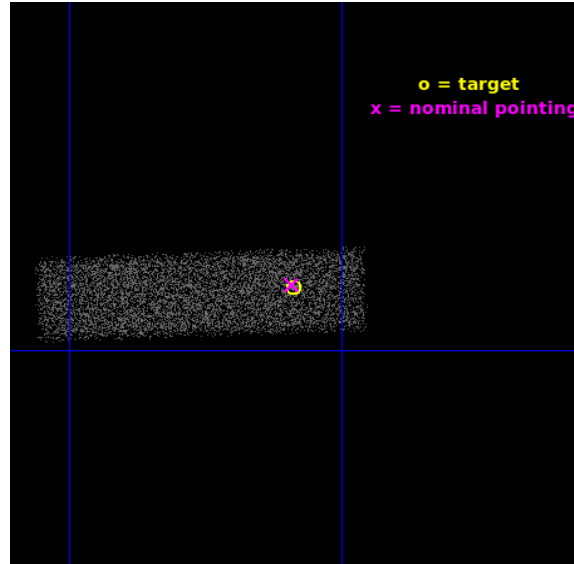
L2 Processing Date : Oct 25 2020

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

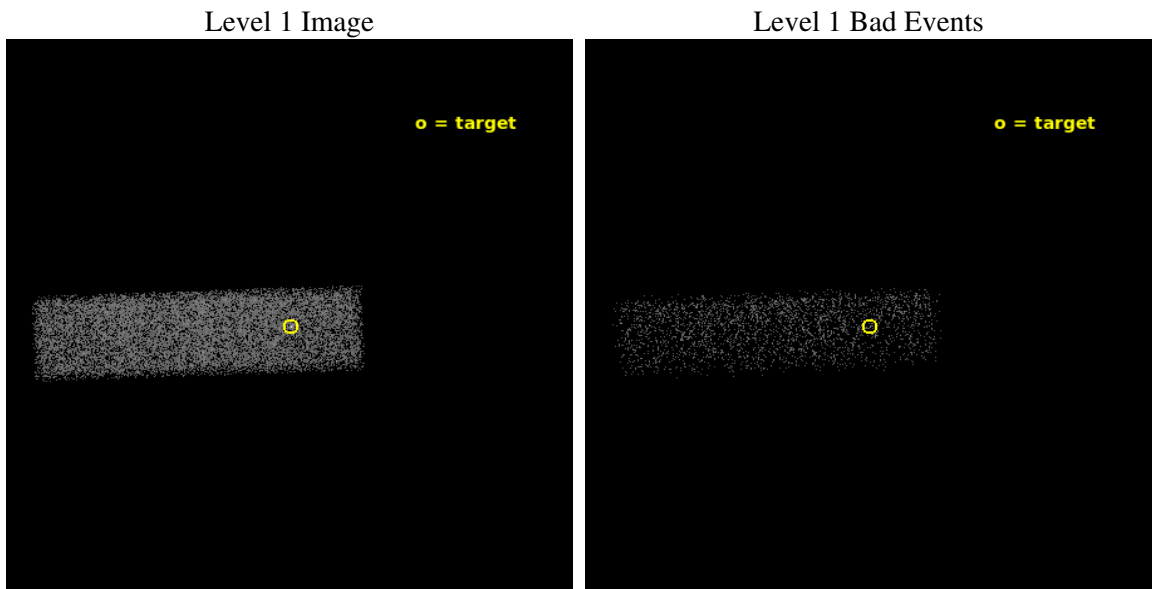
seq_num	703515	Sequence number
obs_id	20410	Observation id
title	A SEARCH FOR BEACONS IN THE EARLY UNIVERSE: A SURVEY OF HIGH REDSHIFT RADIO JETS	Proposal title
observer	Daniel Schwartz	Principal investigator
object	J1610+1811	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	242.522083	Observer's specified target RA [deg]
dec_targ	18.195417	Observer's specified target Dec [deg]
ra_nom	242.52285868343	Nominal RA [deg]
dec_nom	18.196723207804	Nominal Dec [deg]
roll_nom	177.86502934948	Nominal Roll [deg]
revision	2	Processing version of data
ontime	9560.7994301319	Sum of GTIs [s]
livetime	9094.2637022086	Livetime [s]
ontime7	9560.7994301319	Sum of GTIs [s]
l2events	10876	Number of level 2 events



2 OBI

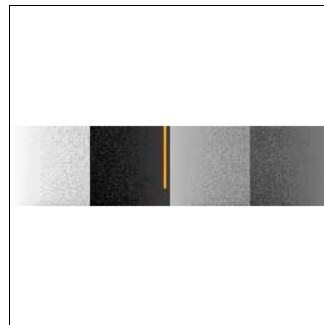
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	9500.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	9560.7994301319	Sum of GTIs [s]
caldbver	4.9.3	 	ontime7	9560.7994301319	Sum of GTIs [s]
date	2020-10-26T00:18:31	Date and time of file creation	l1events	23355	Number of level 1 events
revision	2	Processing version of data			

2.1.4 Events

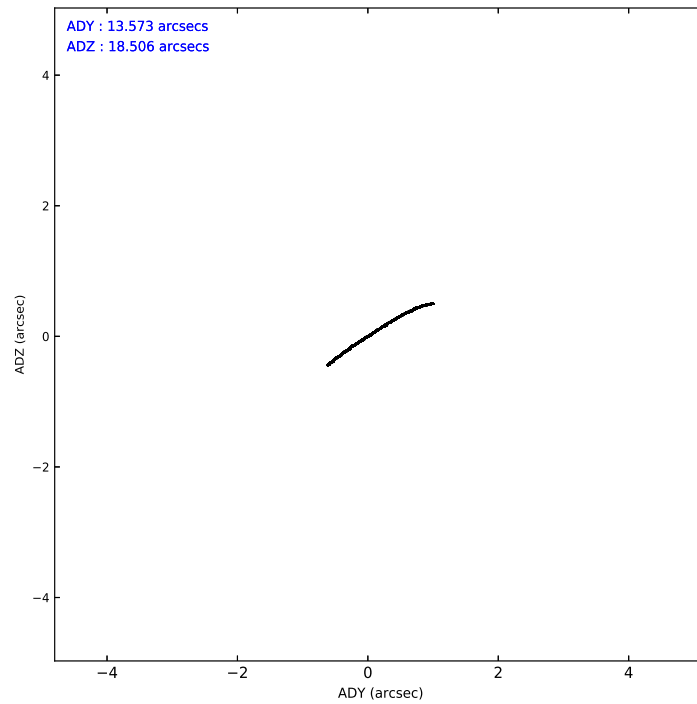
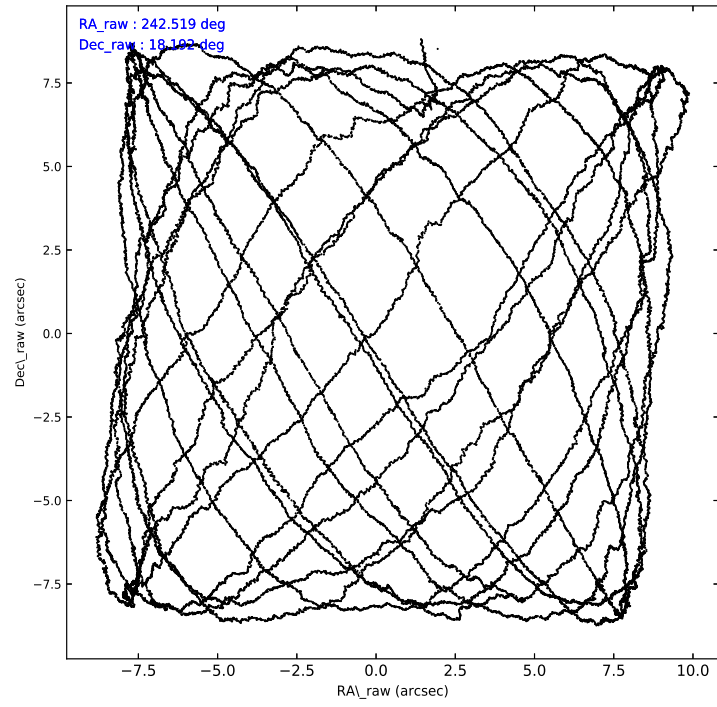
	ccd 7
level 1 events	23355
rejected events	12132
rejected %	51%

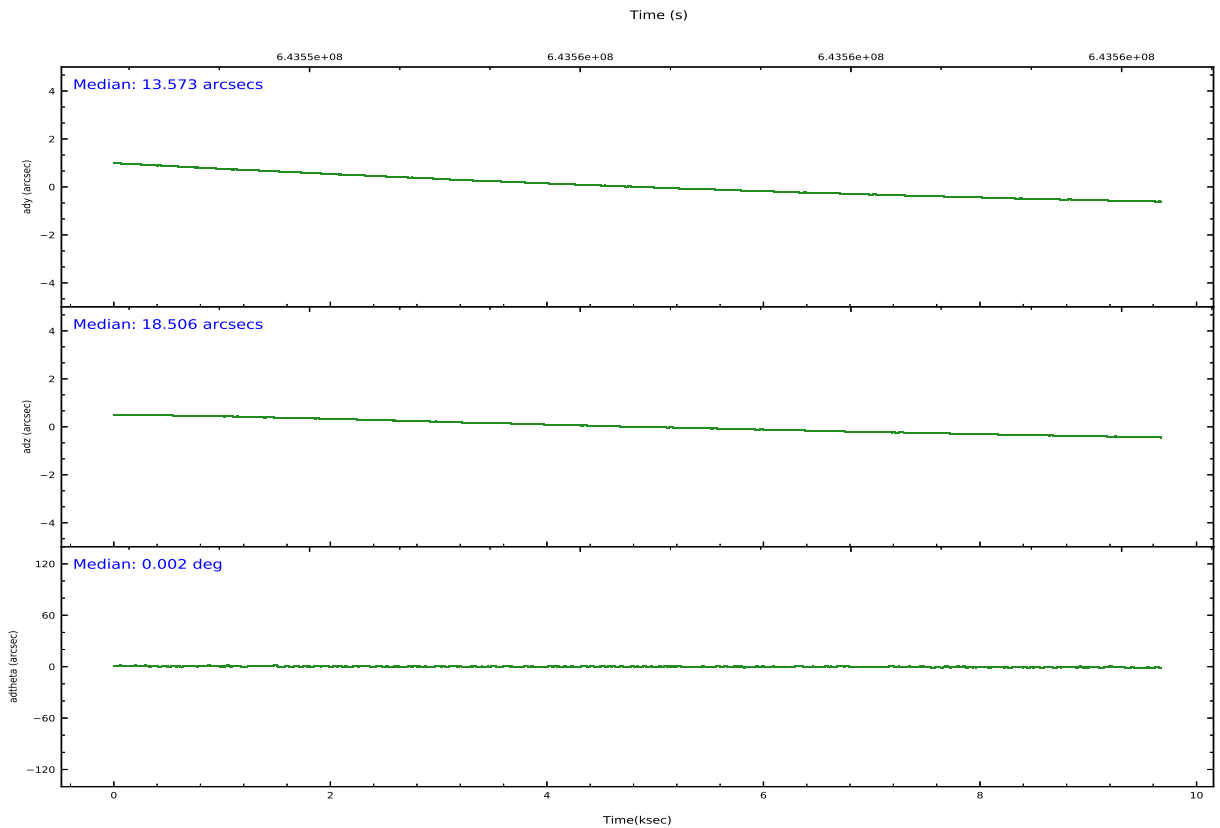
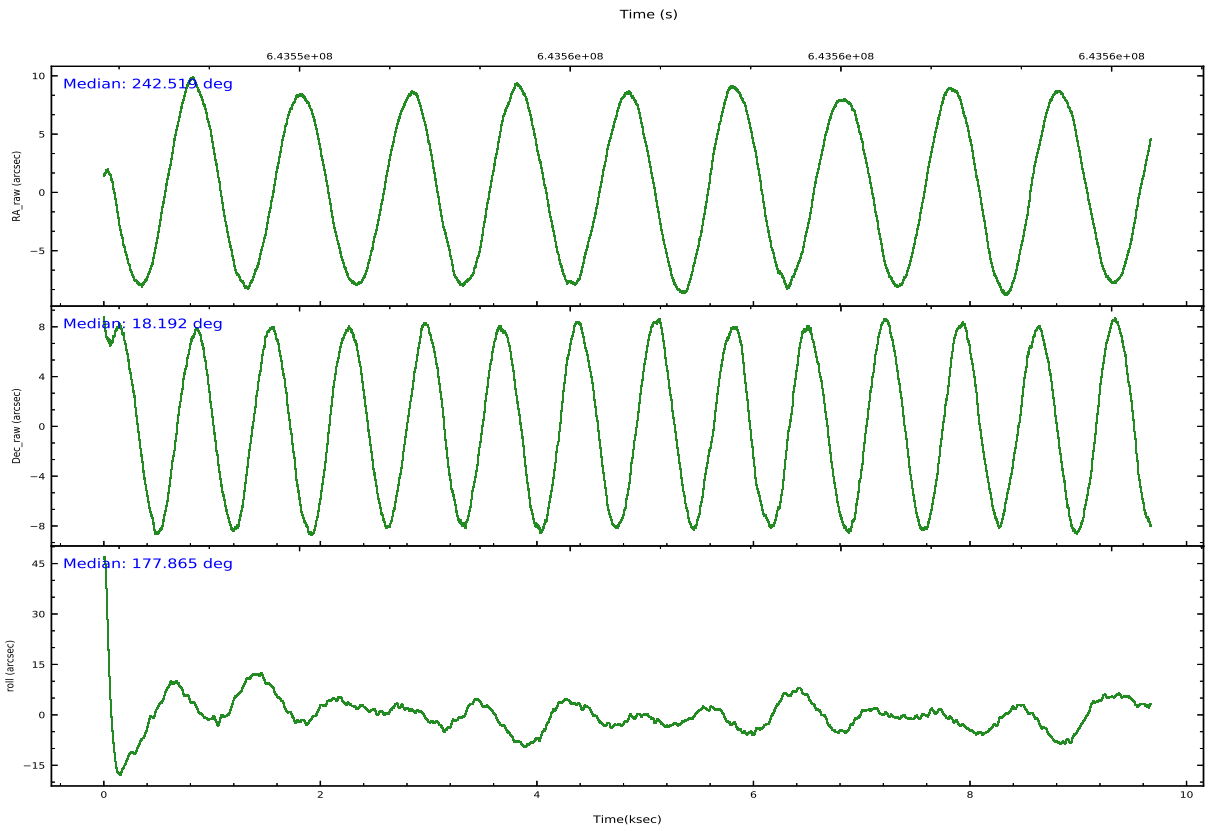
	ccd 7
grade 0 events	1185
	5%
grade 1 events	29
	0%
grade 2 events	2222
	9%
grade 3 events	1224
	5%
grade 4 events	1175
	5%
grade 5 events	2353
	10%
grade 6 events	5420
	23%
grade 7 events	9747
	41%

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	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	242.543938	242.52285868343	Subarray requested	CUSTOM	1/4
[deg] Pointing Dec	18.204629	18.196723207804	Subarray start row	385	385
[deg] Pointing Roll	177.709358	177.86502934948	Subarray row count	256	256
[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	0.8
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	643550865.184000	643549749.17058			
Observation start date	2018-05-24T12:06:36	2018-05-24T11:49:09			
[s] Observation end time (MET)	643560365.184000	643561227.12126			
Observation end date	2018-05-24T14:44:56	2018-05-24T15:00:27			
Read mode	TIMED	TIMED			

2.3 Aspect





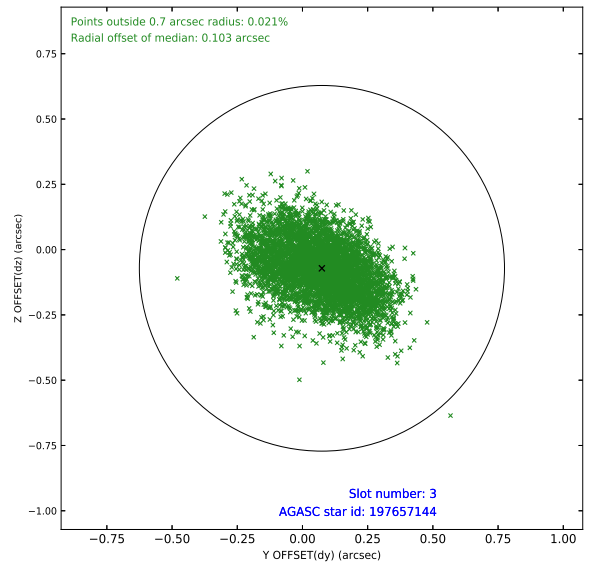
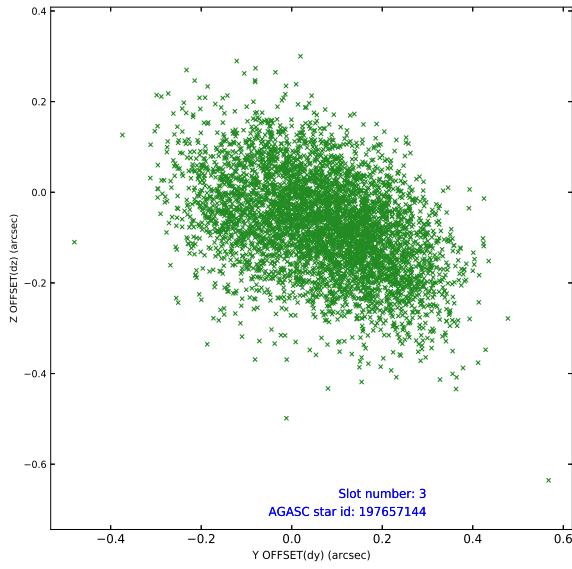
Slot Statistics

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	7.07	2360	1.000	0.106	-0.117	0.019	0.039	0.000000	0.000000	-766.64	-1740
1	FID		ACIS-S-4	7.20	2360	1.000	0.162	-0.019	0.021	0.033	0.000000	0.000000	2146.63	167
2	FID		ACIS-S-5	7.18	2360	1.000	-0.296	0.145	0.013	0.031	0.000000	0.000000	-1818.99	162
3	GUIDE	used	197657144	9.28	4714	1.000	0.075	-0.072	0.188	0.305	242.182562	18.657910	1297.13	-1581
4	GUIDE	used	197660184	8.05	4719	1.000	0.061	-0.029	0.121	0.226	242.418059	18.437976	463.82	-821
5	GUIDE	used	197661432	9.19	4717	1.000	-0.010	0.056	0.159	0.259	243.037238	17.807762	-1746.91	1357
6	GUIDE	used	197661848	8.38	4717	1.000	-0.034	0.030	0.121	0.210	242.789963	17.927076	-882.21	964
7	GUIDE	used	197662824	8.48	4717	1.000	-0.093	0.017	0.123	0.207	243.011437	17.977967	-1632.17	749

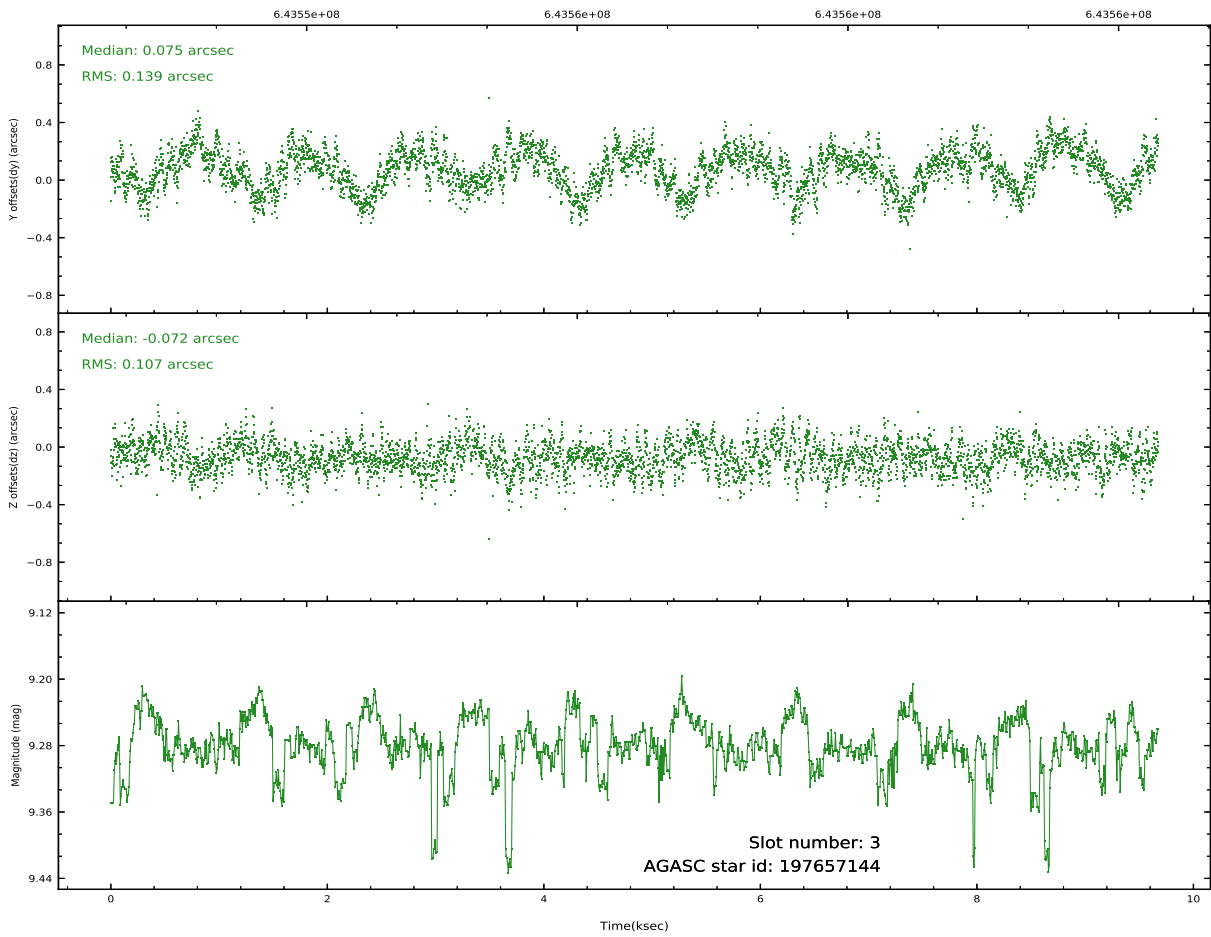
∞

2.4 Star Slots

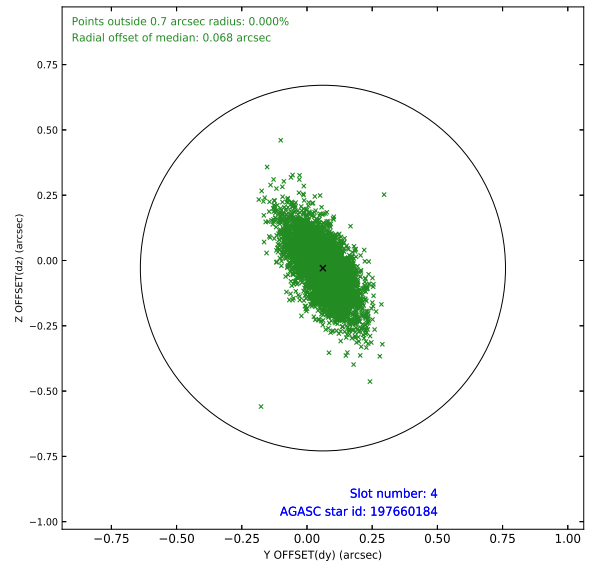
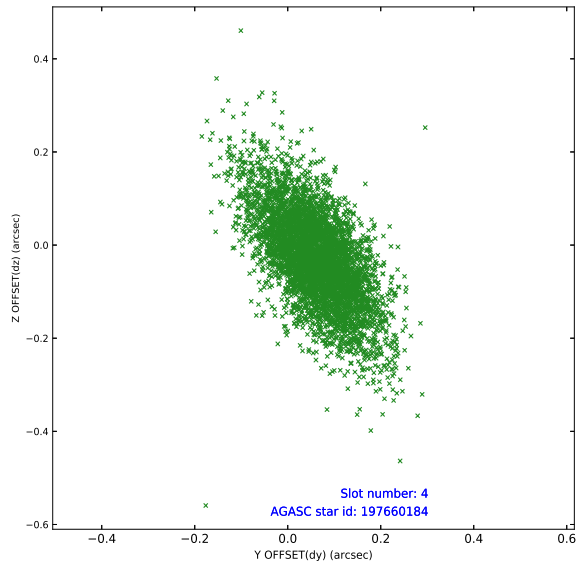
2.4.1 Slot 3



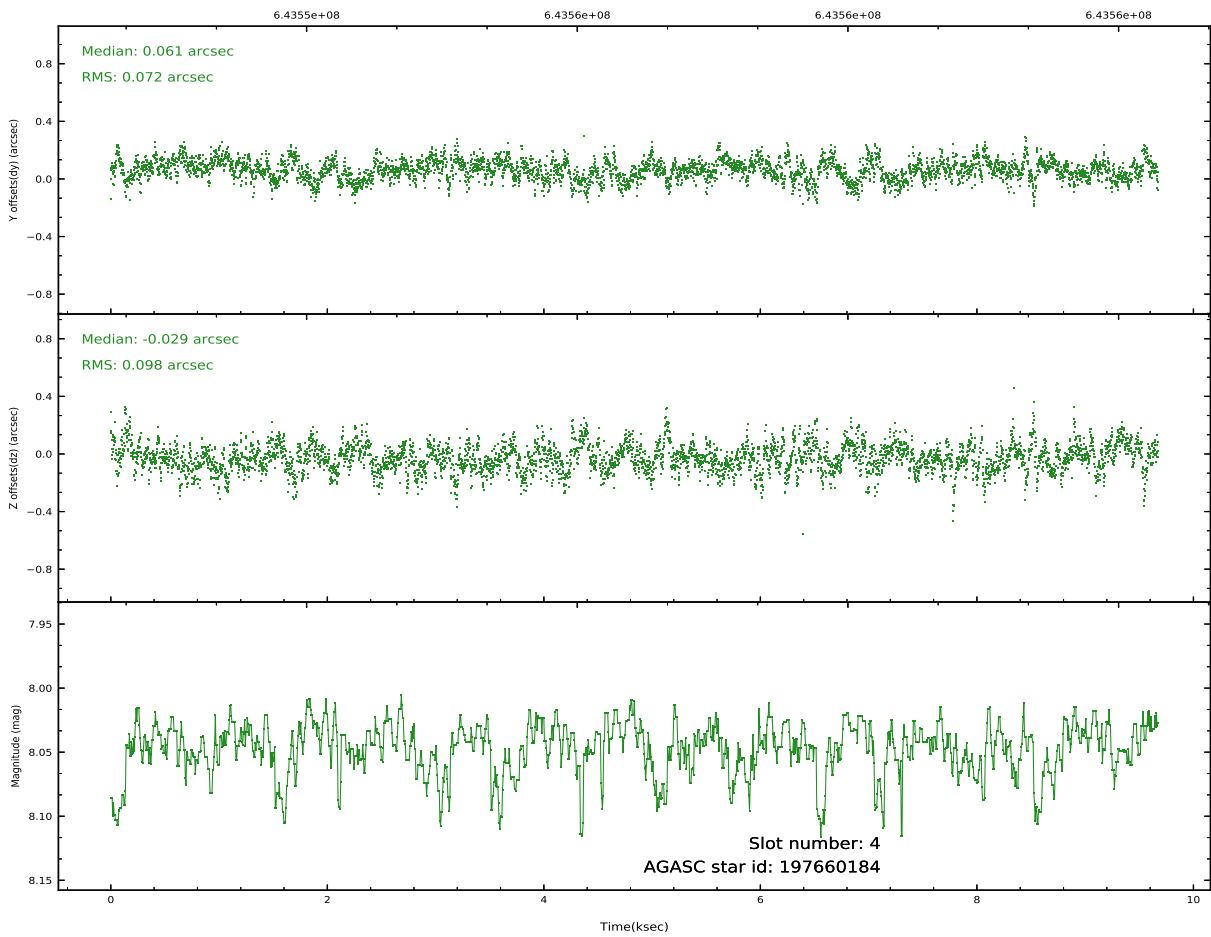
Time (s)



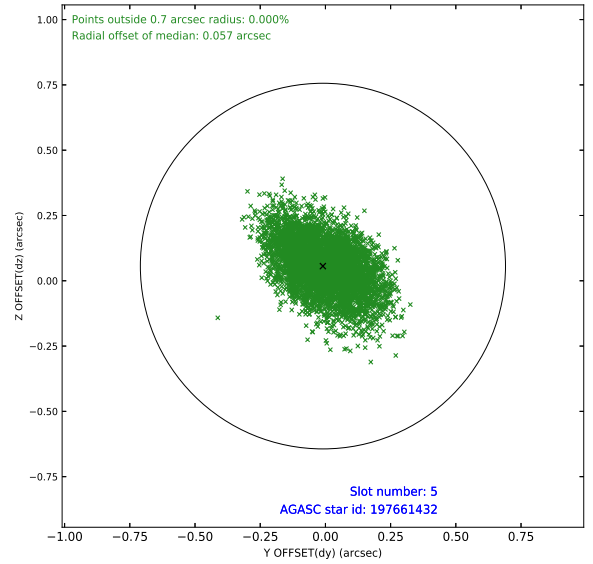
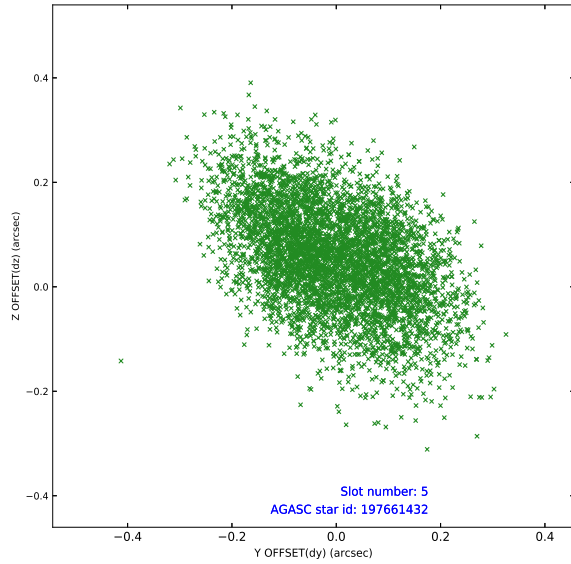
2.4.2 Slot 4



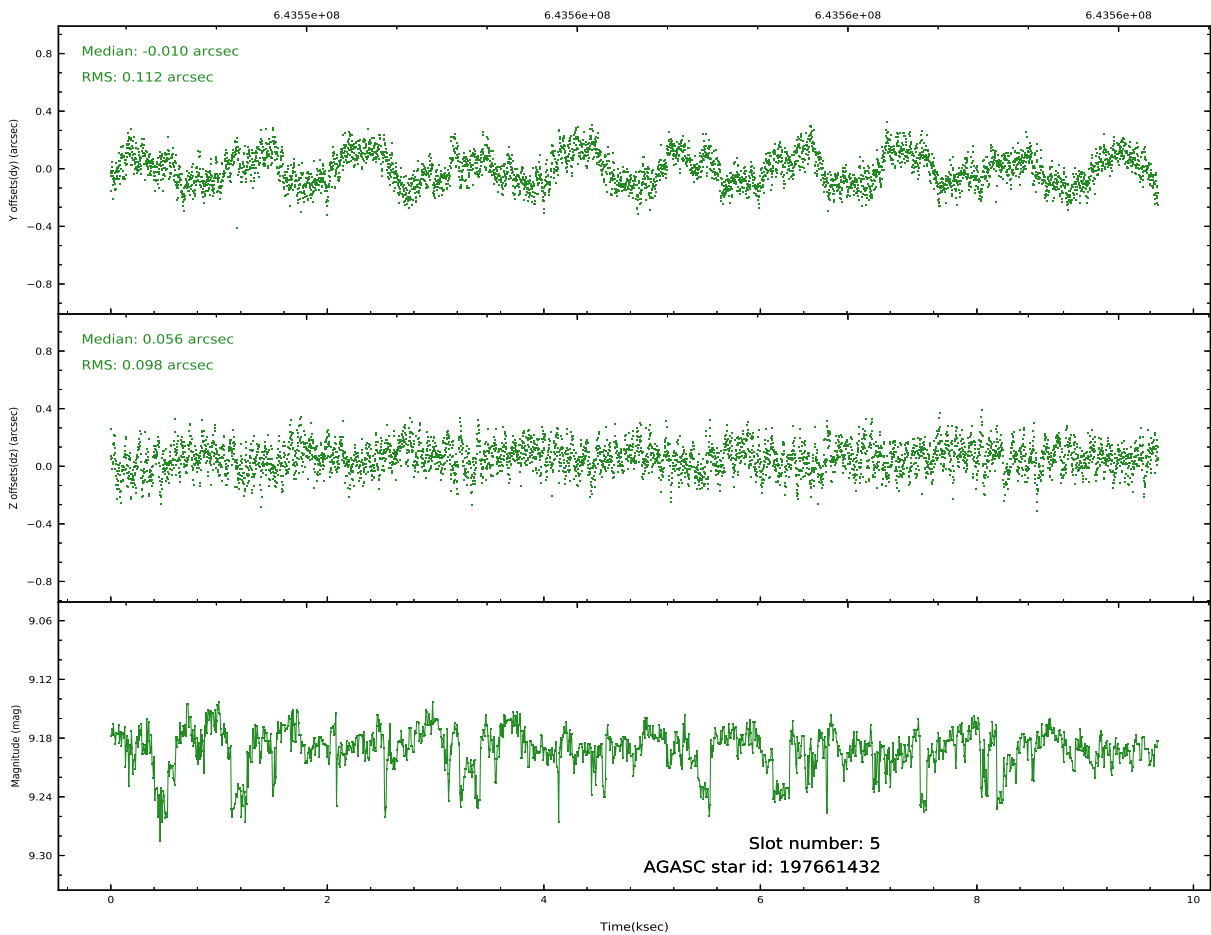
Time (s)



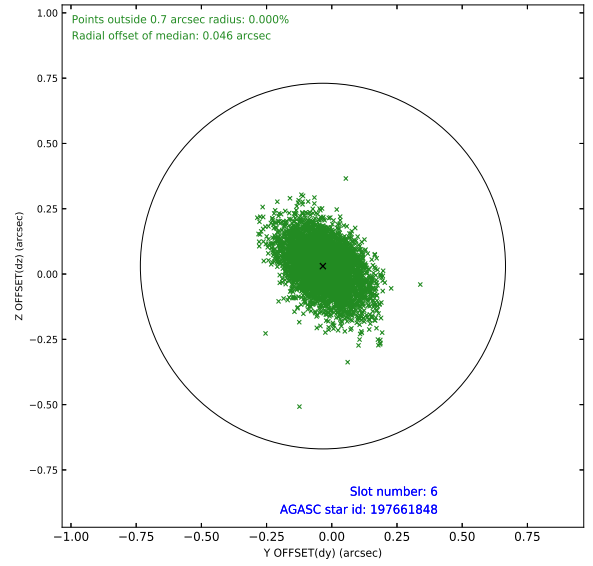
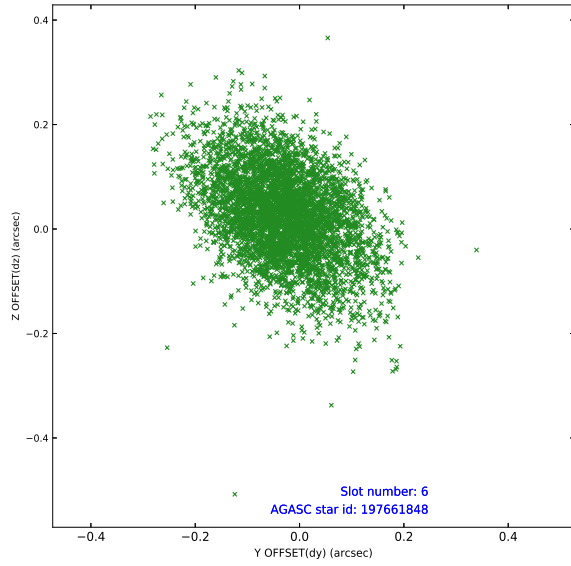
2.4.3 Slot 5



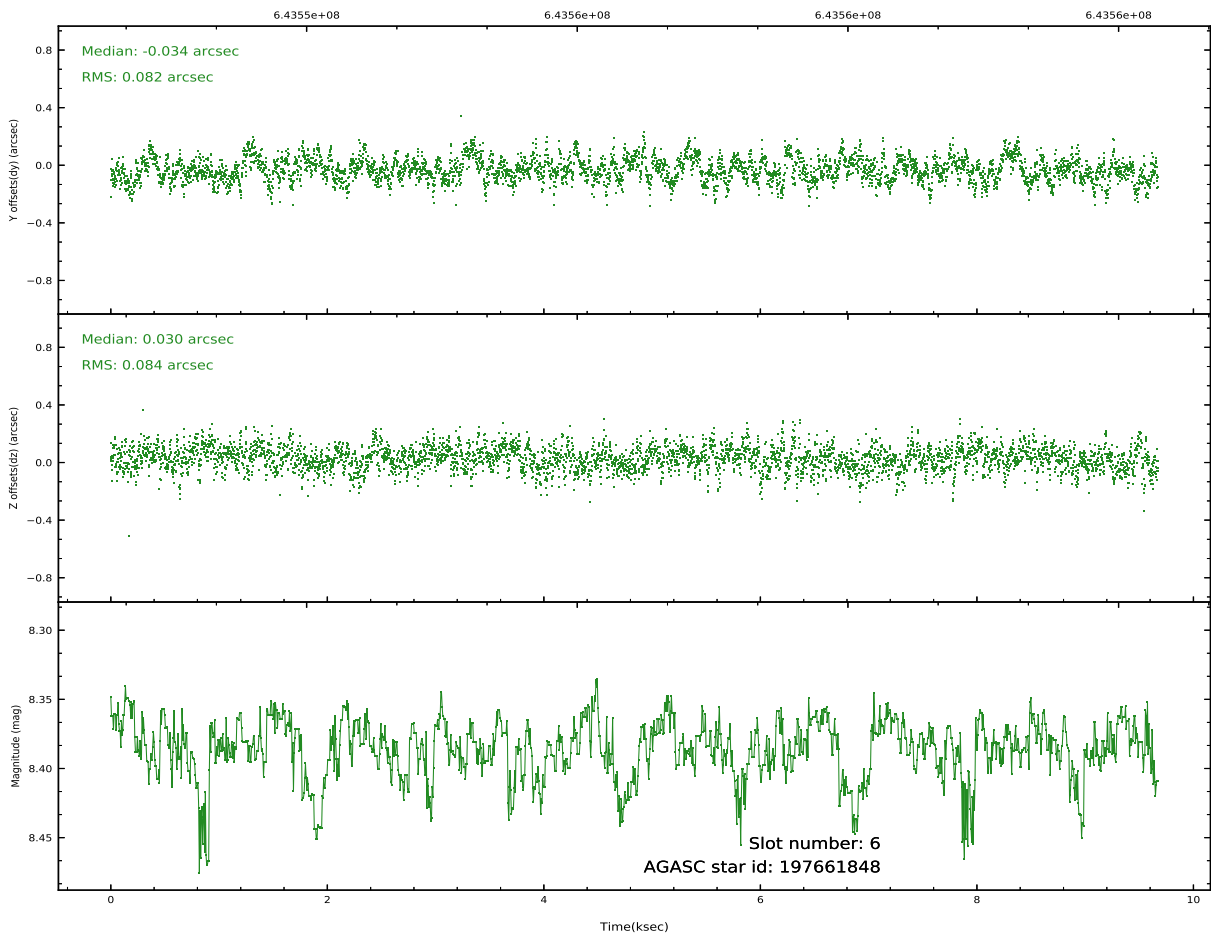
Time (s)



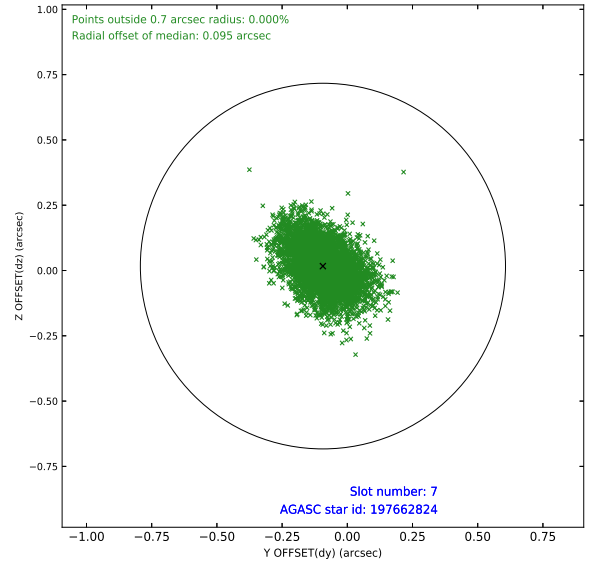
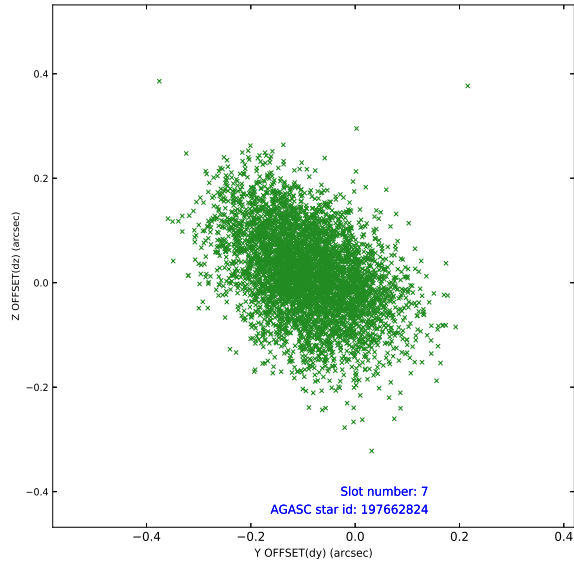
2.4.4 Slot 6



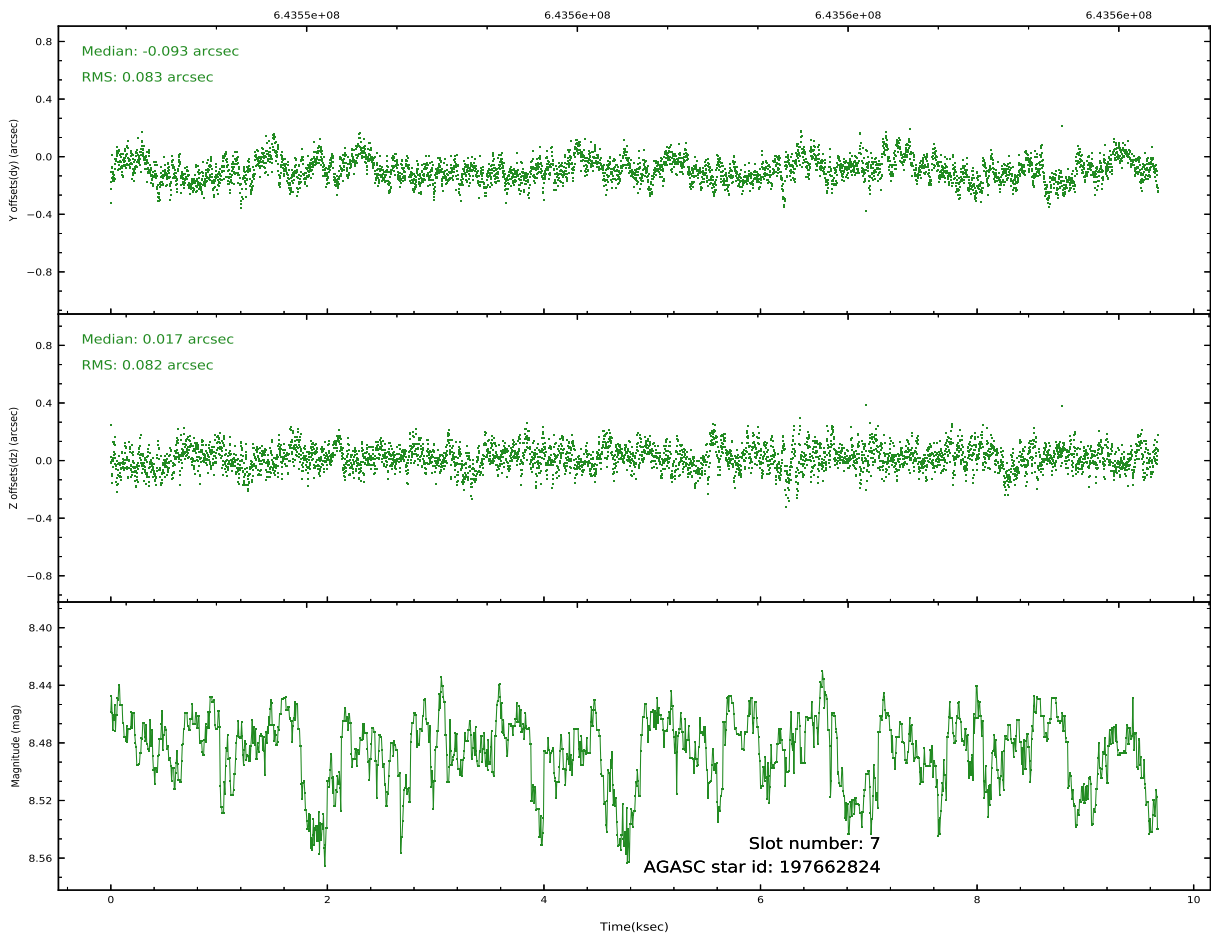
Time (s)



2.4.5 Slot 7

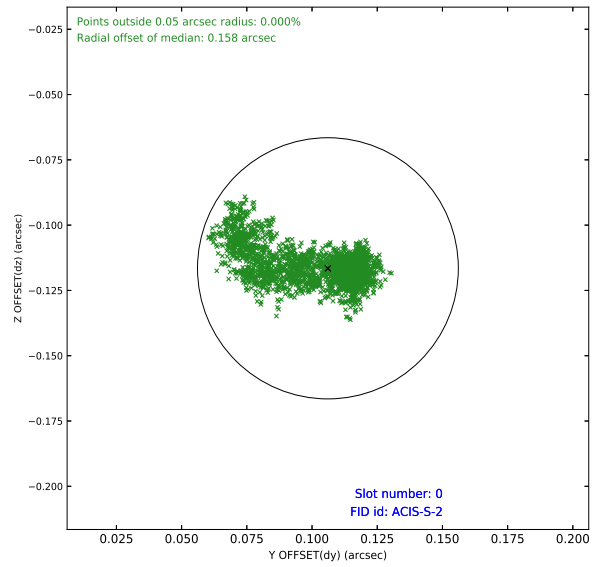
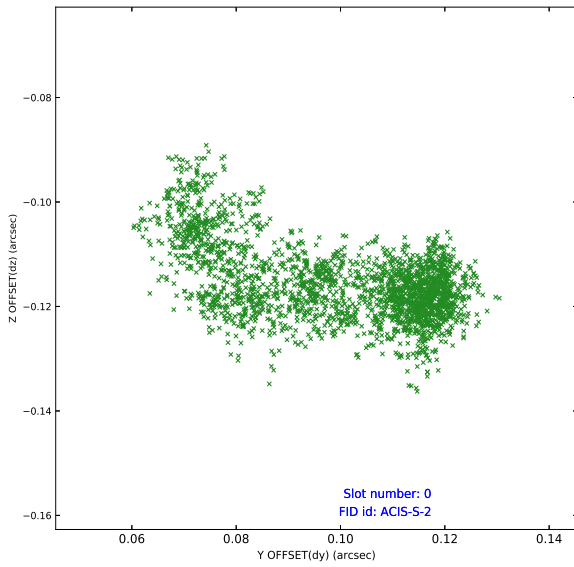


Time (s)

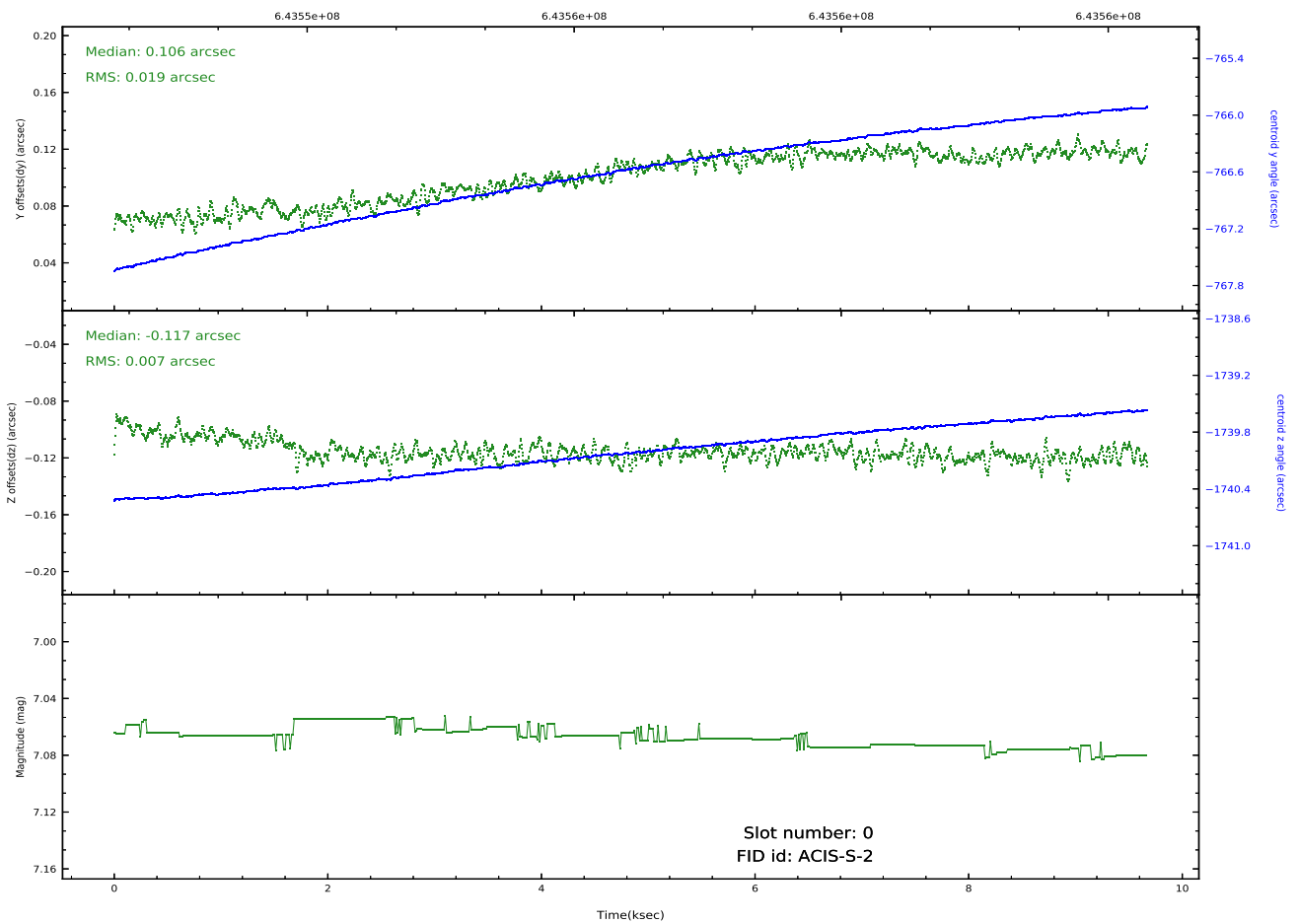


2.5 FID Slots

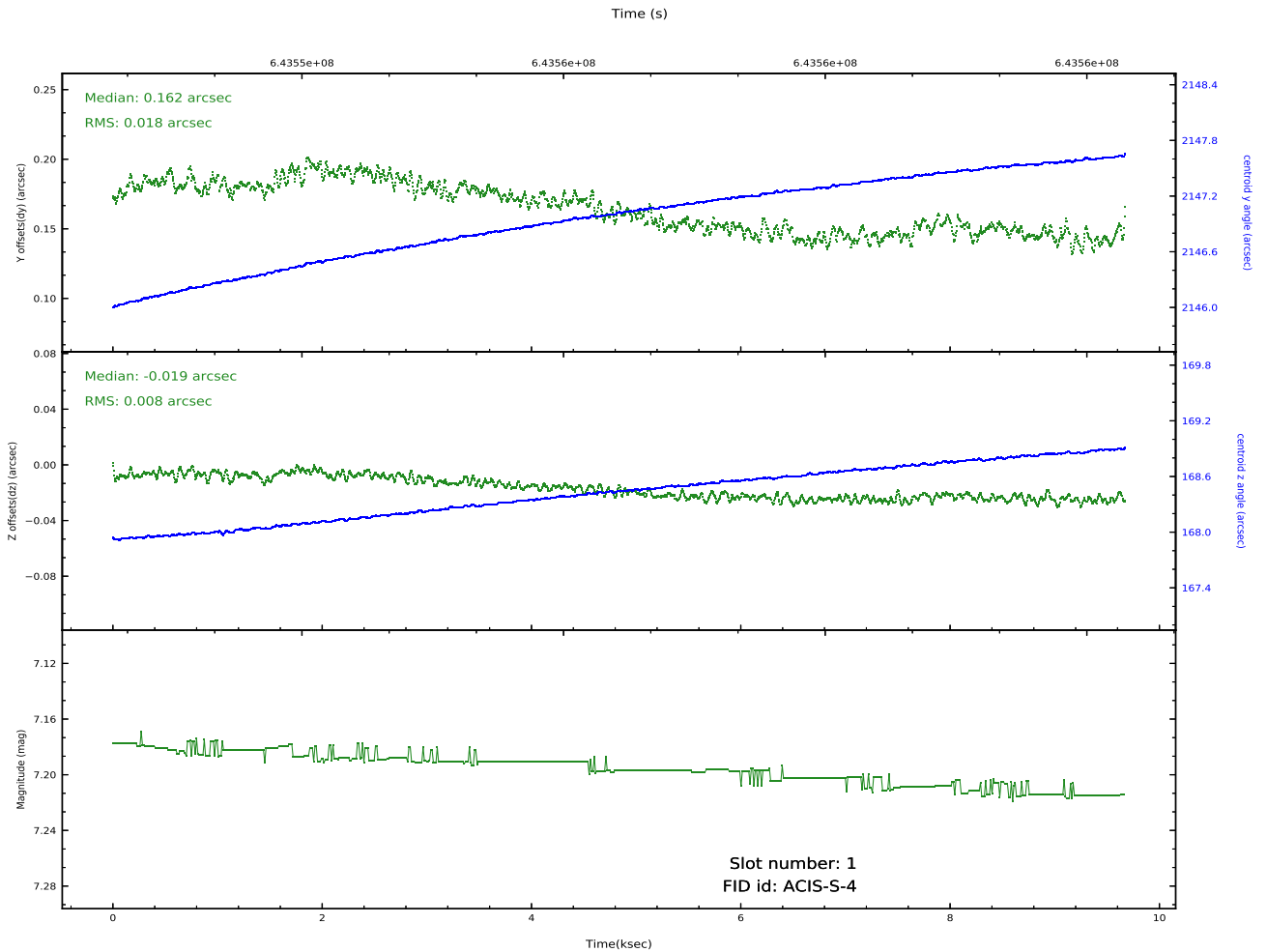
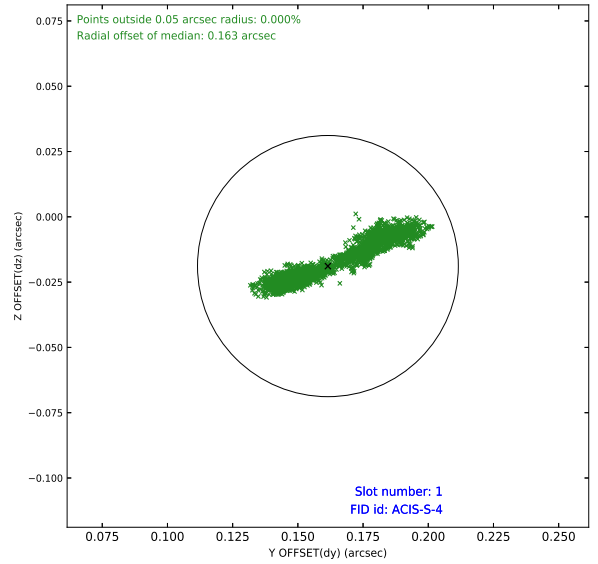
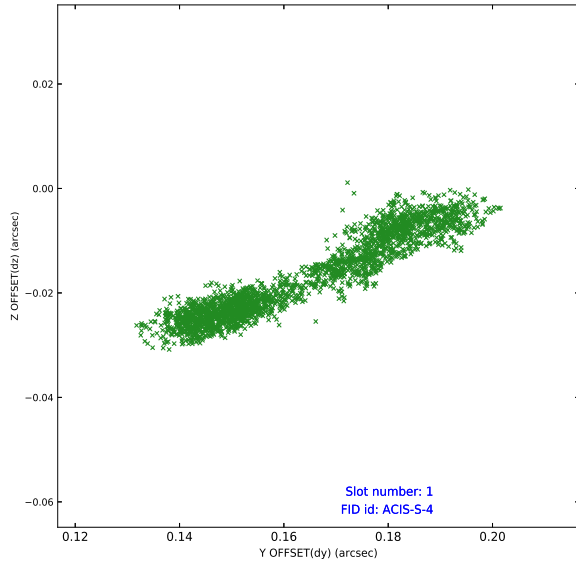
2.5.1 Slot 0



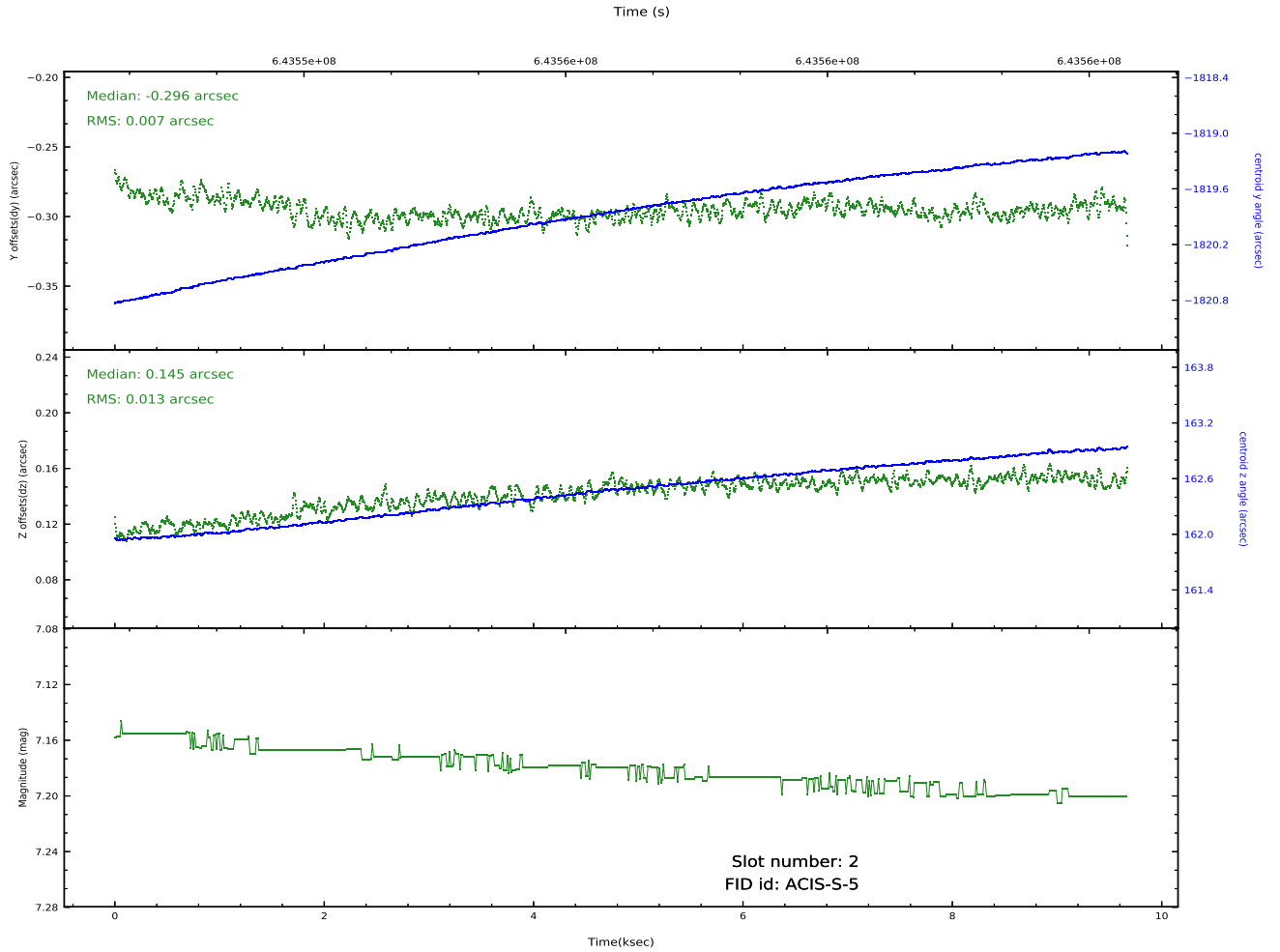
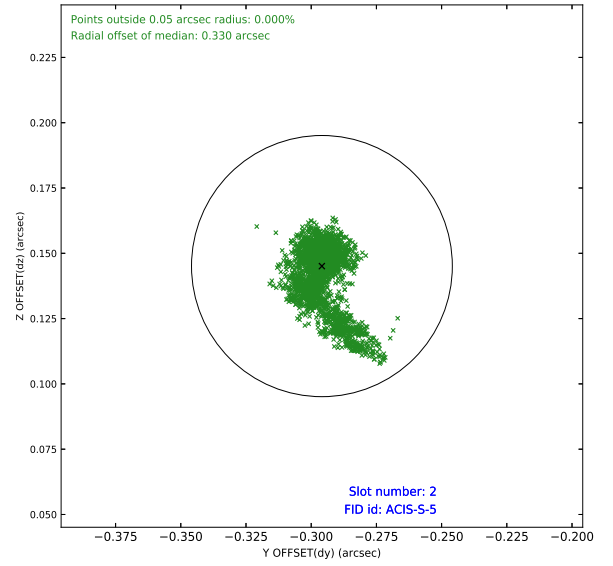
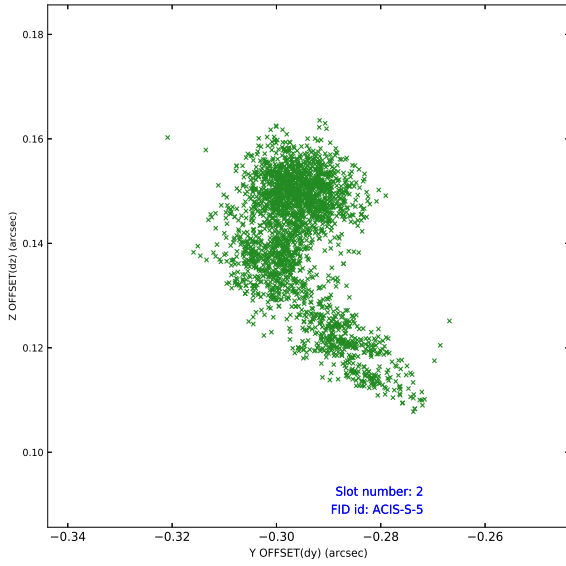
Time (s)



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	9.5607994301319

A.2 Comments