

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 4620 - L2 Version 4
Chandra X-Ray Center

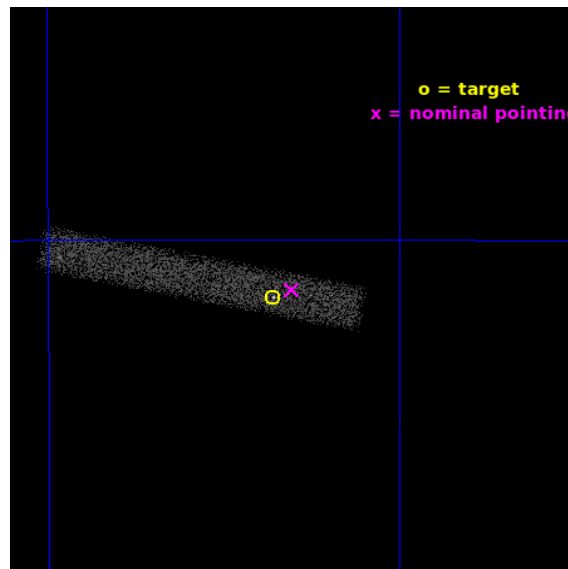
L2 Processing Date : Sep 24 2020

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

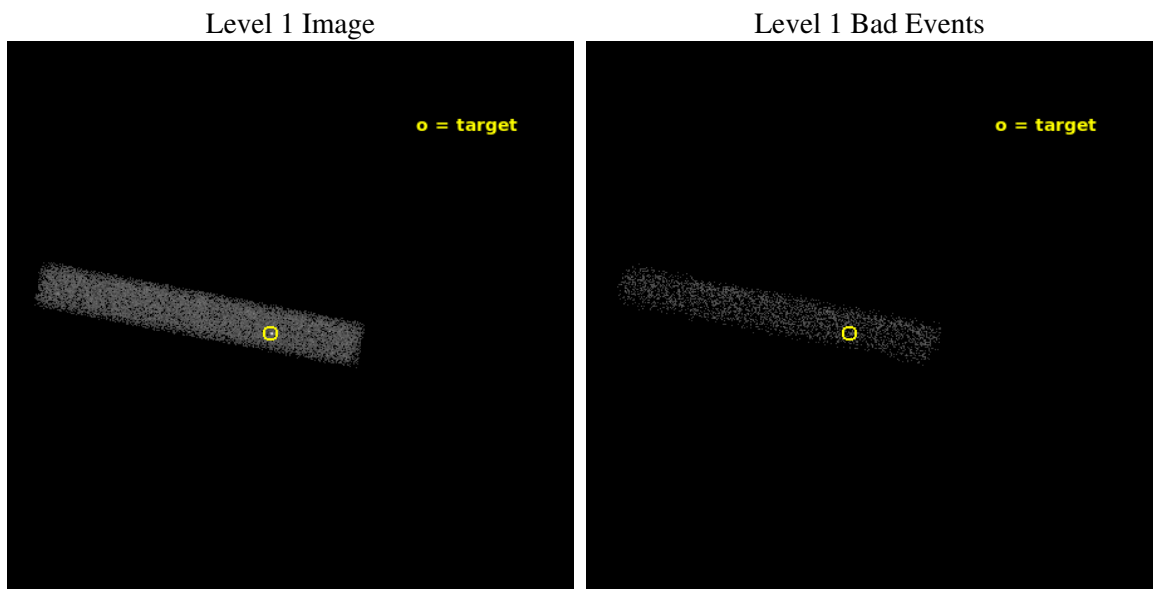
seq_num	500445	Sequence number
obs_id	4620	Observation id
title	PRECISION TIMING OF A POSSIBLE NEW ANOMALOUS X-RAY PULSAR	Proposal
observer	Prof. Bryan Gaensler	Principal investigator
object	CXOU J010043.1-721134	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	15.179583	Observer's specified target RA [deg]
dec_targ	-72.192722	Observer's specified target Dec [deg]
ra_nom	15.152793558993	Nominal RA [deg]
dec_nom	-72.189275373429	Nominal Dec [deg]
roll_nom	191.29030000939	Nominal Roll [deg]
revision	4	Processing version of data
ontime	16780.400250018	Sum of GTIs [s]
livetime	15218.937284616	Livetime [s]
ontime7	16780.400250018	Sum of GTIs [s]
l2events	10435	Number of level 2 events



2 OBI

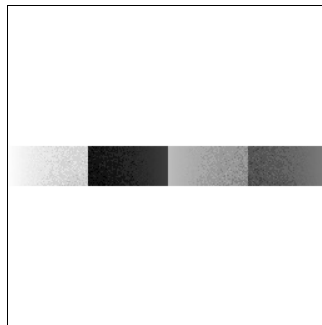
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	16340.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	16780.400250018	Sum of GTIs [s]
caldsver	4.9.2	 	ontime7	16780.400250018	Sum of GTIs [s]
date	2020-09-24T11:52:37	Date and time of file creation	l1events	22395	Number of level 1 events
revision	4	Processing version of data			

2.1.4 Events

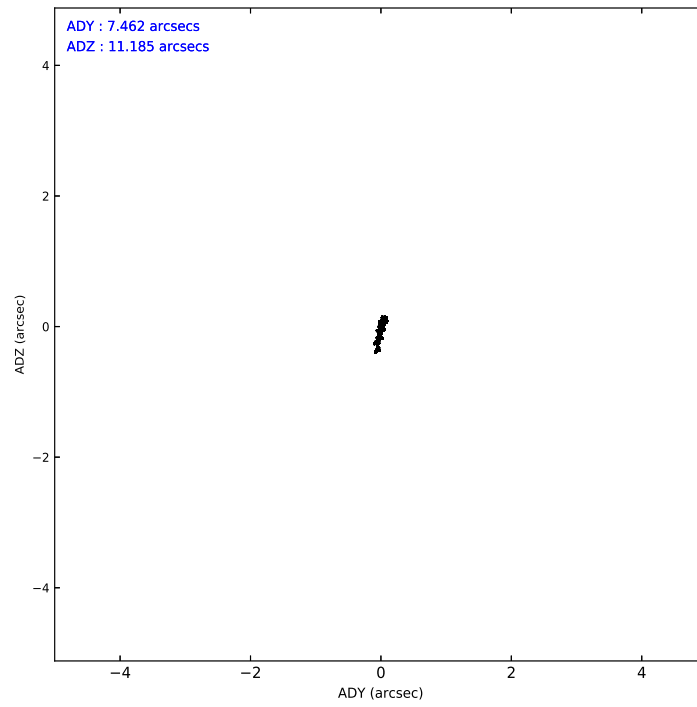
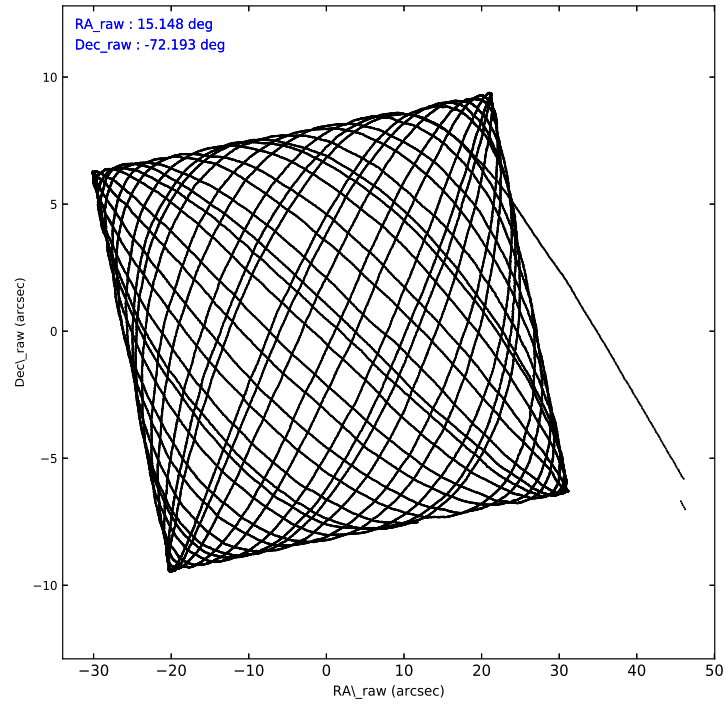
	ccd 7
level 1 events	22395
rejected events	11554
rejected %	51%

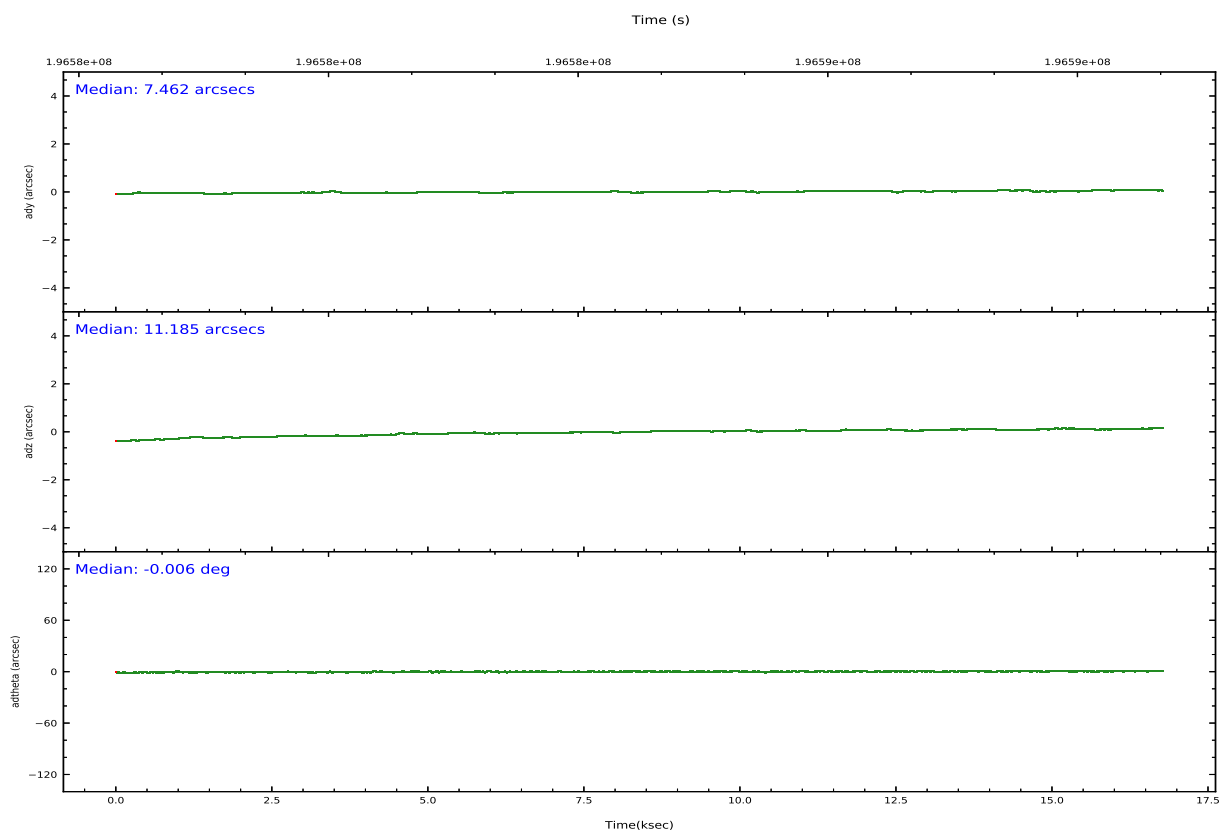
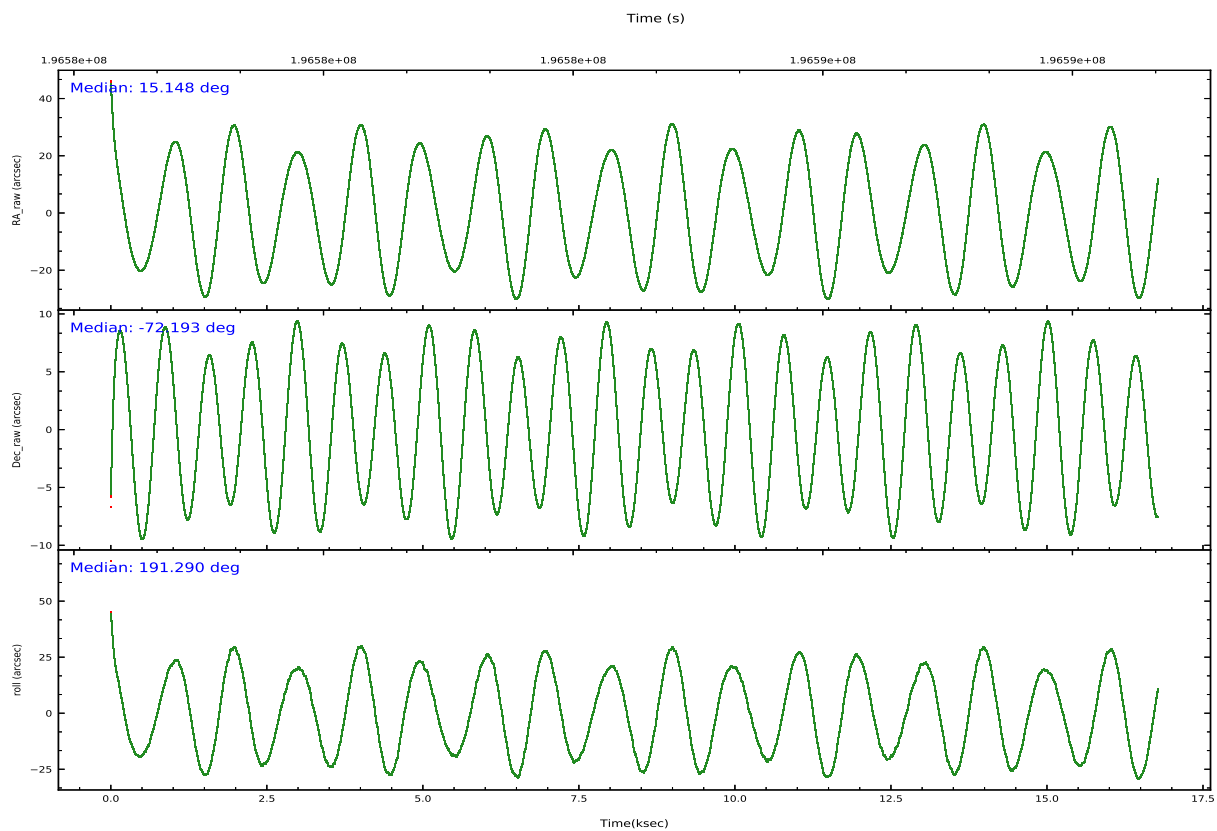
	ccd 7
grade 0 events	1499
	6%
grade 1 events	23
	0%
grade 2 events	2292
	10%
grade 3 events	1474
	6%
grade 4 events	1325
	5%
grade 5 events	1969
	8%
grade 6 events	4478
	19%
grade 7 events	9335
	41%

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	15.213993	15.152793558993	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	-72.174694	-72.189275373429	Subarray start row	449	449
[deg] Pointing Roll	191.197498	191.29030000939	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	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	196577033.184000	196575945.54101			
Observation start date	2004-03-25T04:42:49	2004-03-25T04:25:45			
[s] Observation end time (MET)	196593373.184000	196594148.00431			
Observation end date	2004-03-25T09:15:09	2004-03-25T09:29:08			
Read mode	TIMED	TIMED			

2.3 Aspect



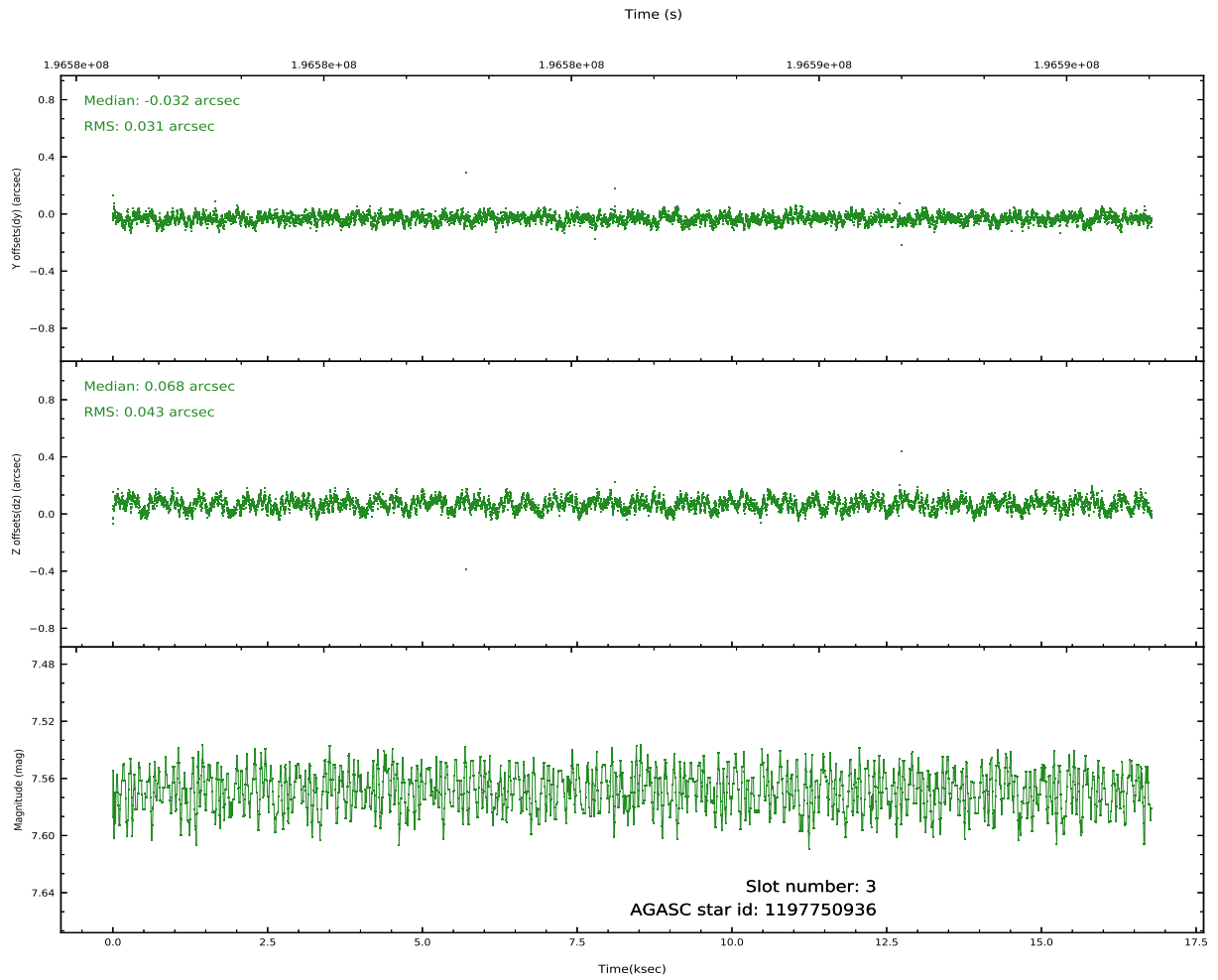
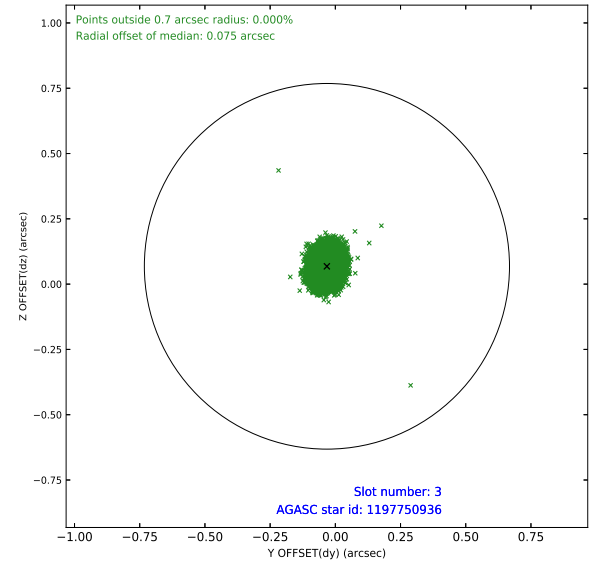
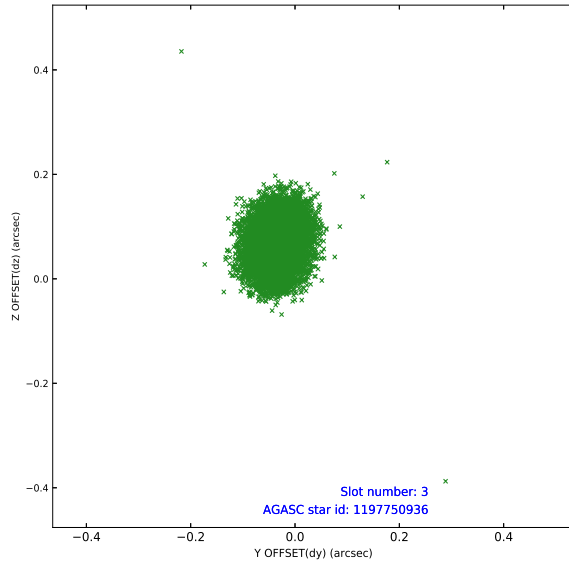


Slot Statistics

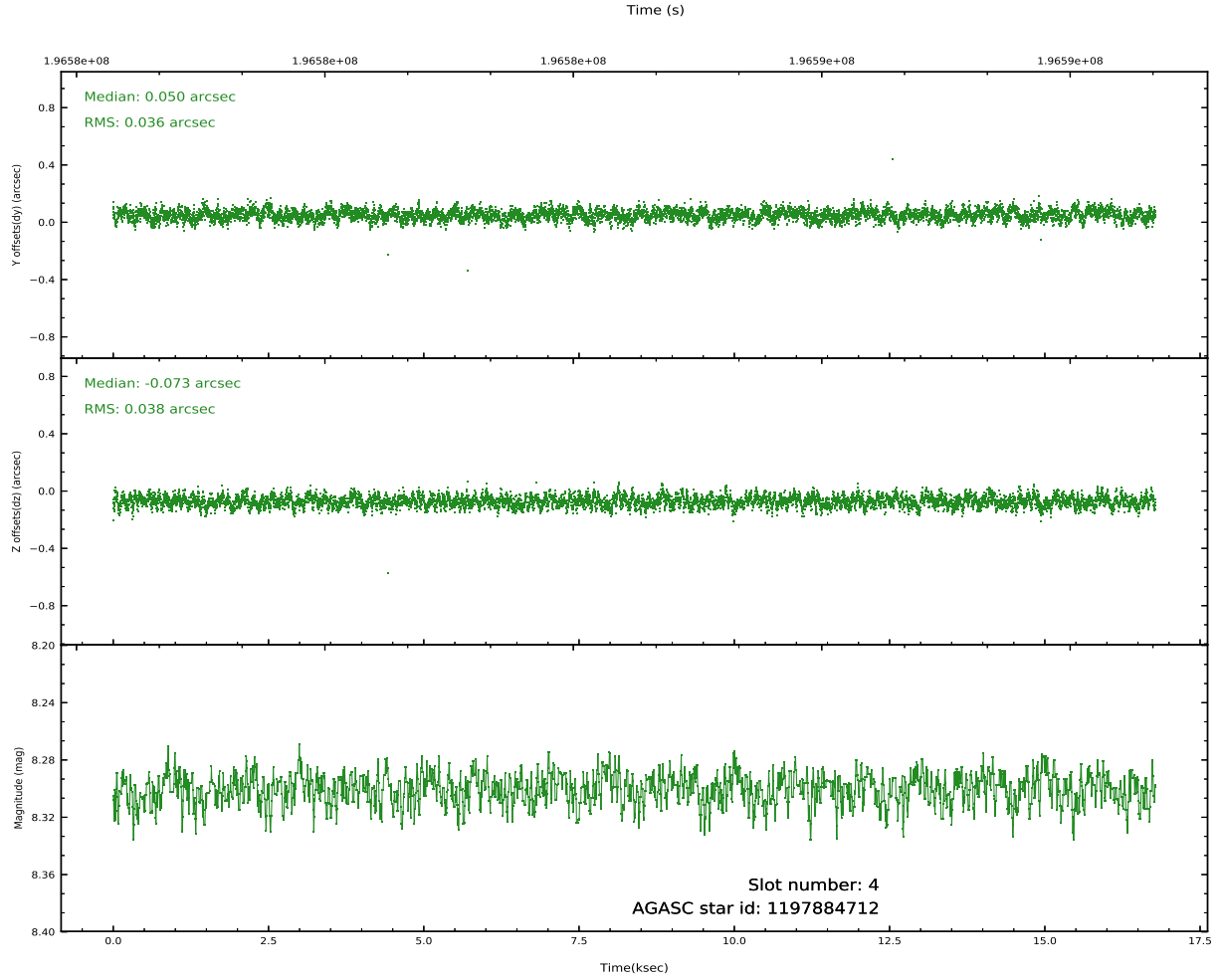
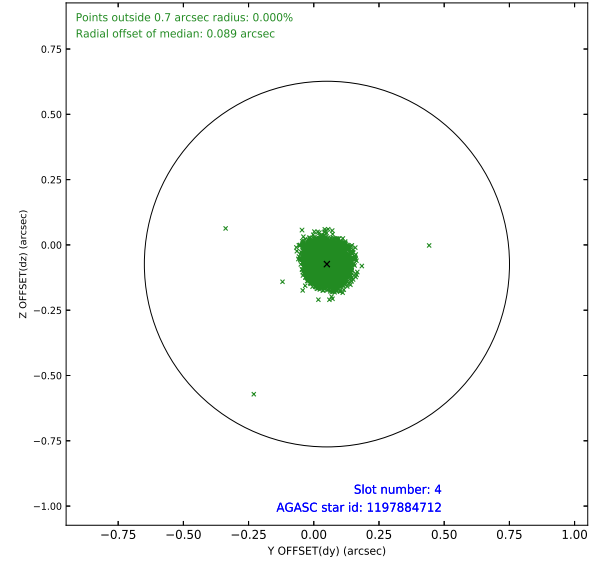
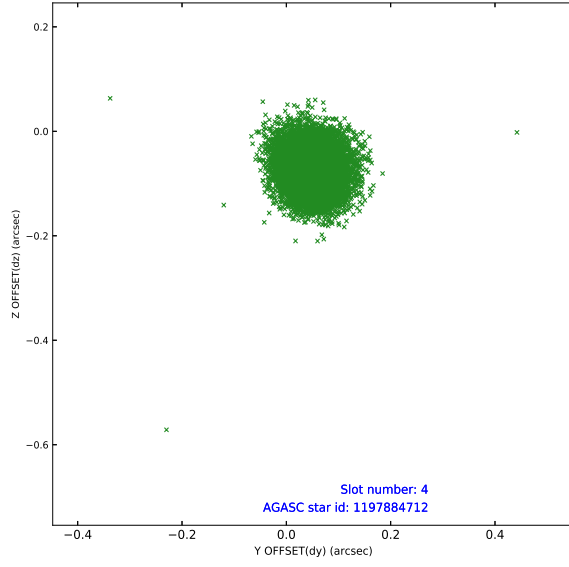
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.10	4094	1.000	-0.063	-0.044	0.008	0.013	0.000000	0.000000	-760.24	-1732
1	FID		ACIS-S-4	7.20	4093	1.000	0.125	0.042	0.006	0.010	0.000000	0.000000	2153.06	175
2	FID		ACIS-S-5	7.23	4094	1.000	-0.093	0.010	0.007	0.012	0.000000	0.000000	-1812.84	169
3	GUIDE	used	1197750936	7.57	8186	1.000	-0.032	0.068	0.057	0.088	15.387940	-71.549550	-631.00	-2168
4	GUIDE	used	1197884712	8.30	8186	1.000	0.050	-0.073	0.055	0.088	16.087398	-72.252690	-884.17	468
5	GUIDE	used	1197885328	7.23	8187	1.000	0.012	0.040	0.060	0.095	16.283090	-71.733943	-1489.57	-1311
6	GUIDE	used	1198189696	7.35	8187	1.000	-0.124	-0.095	0.054	0.084	15.223750	-72.697522	354.89	1848
7	GUIDE	used	1197884536	8.50	8185	1.000	0.096	0.066	0.059	0.093	17.160729	-71.835289	-2372.87	-739

2.4 Star Slots

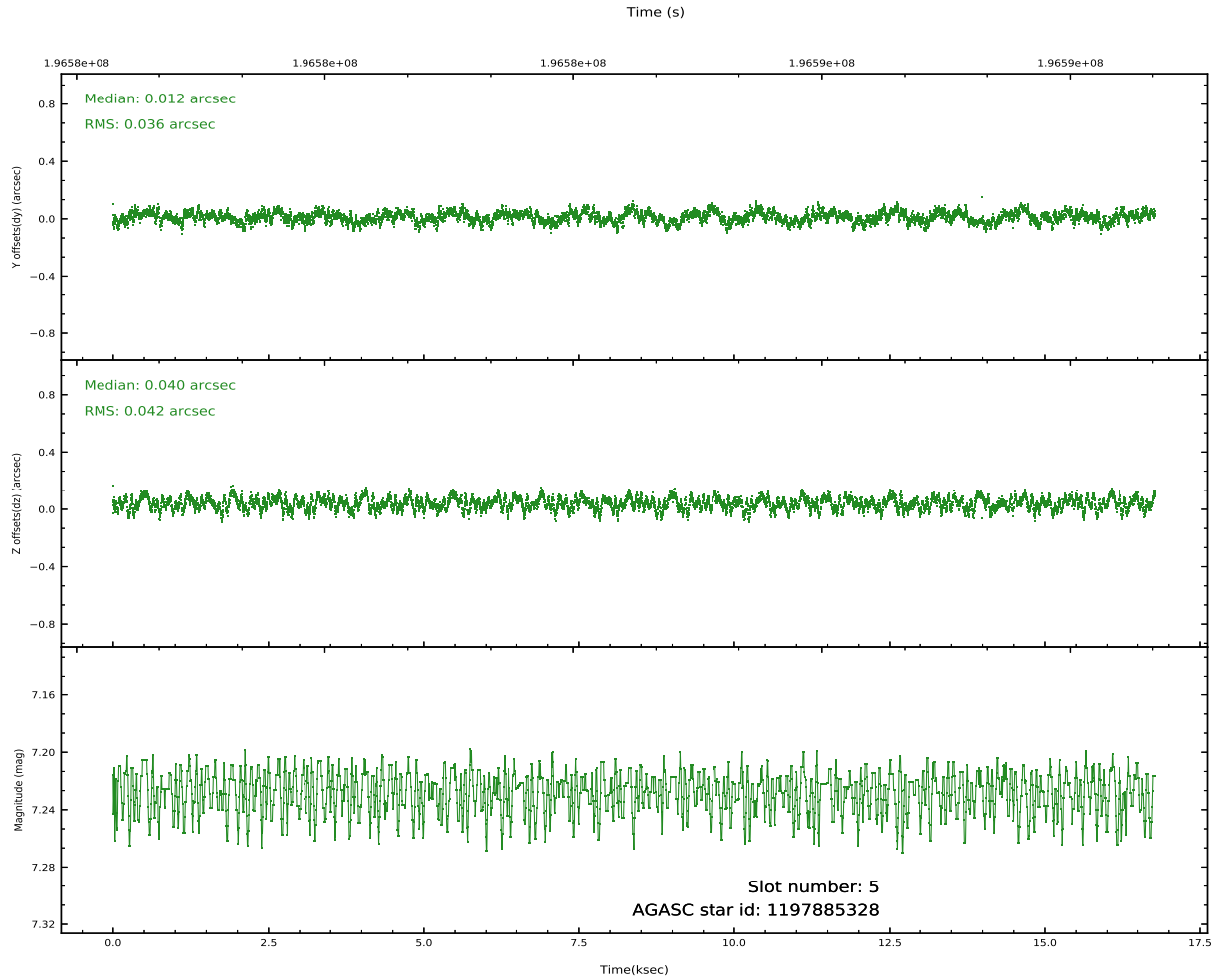
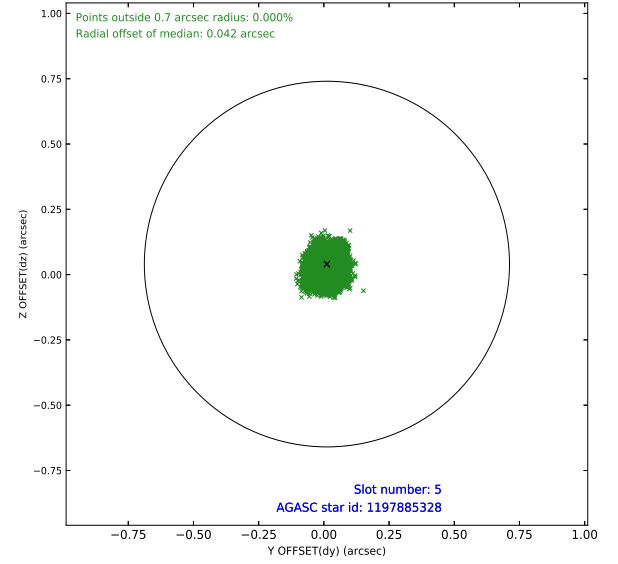
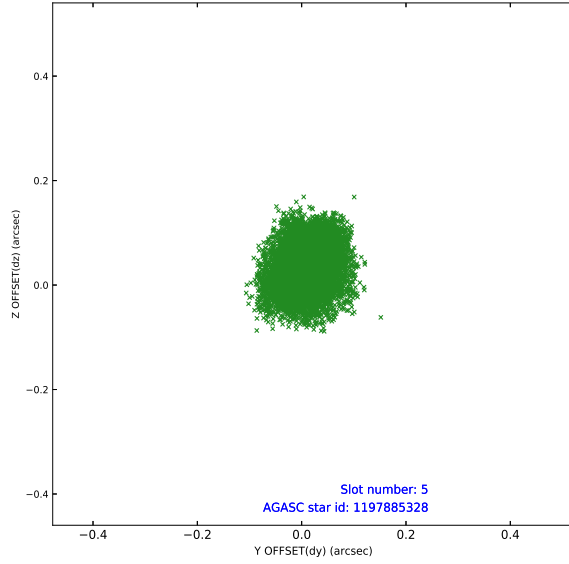
2.4.1 Slot 3



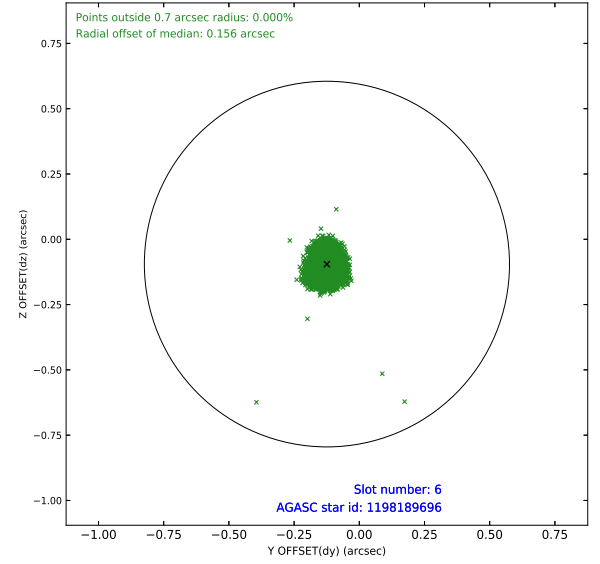
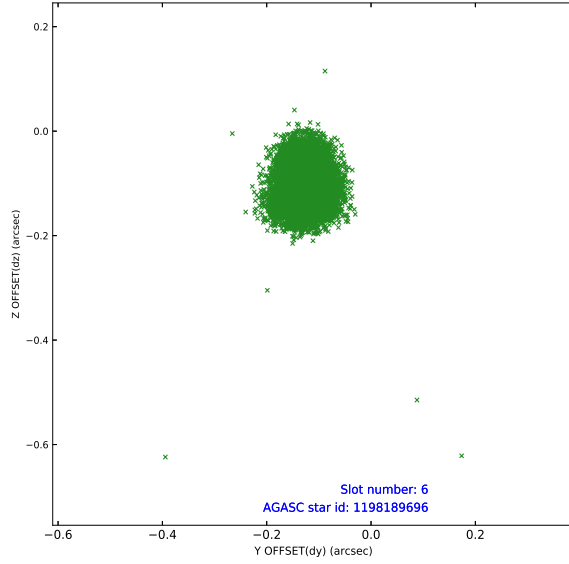
2.4.2 Slot 4



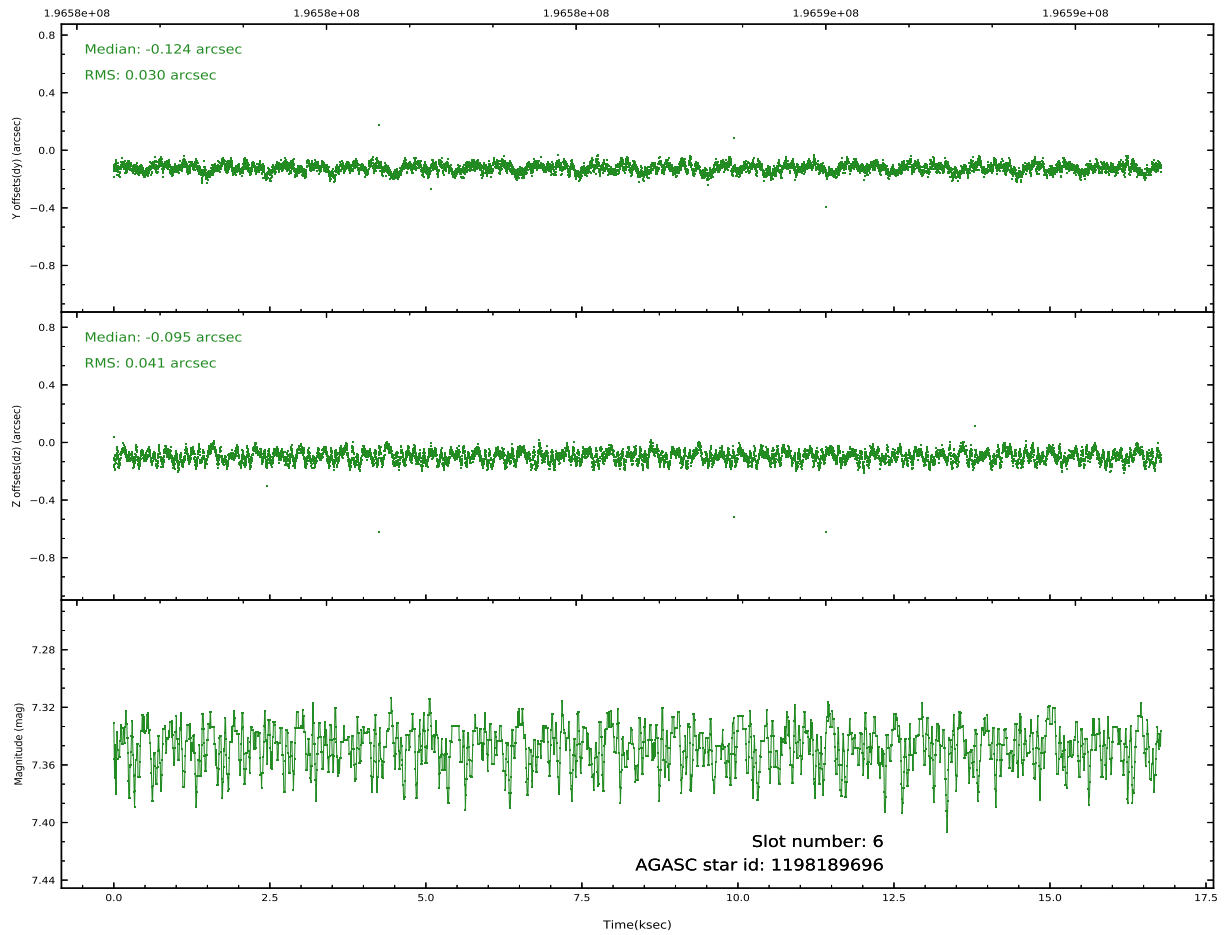
2.4.3 Slot 5



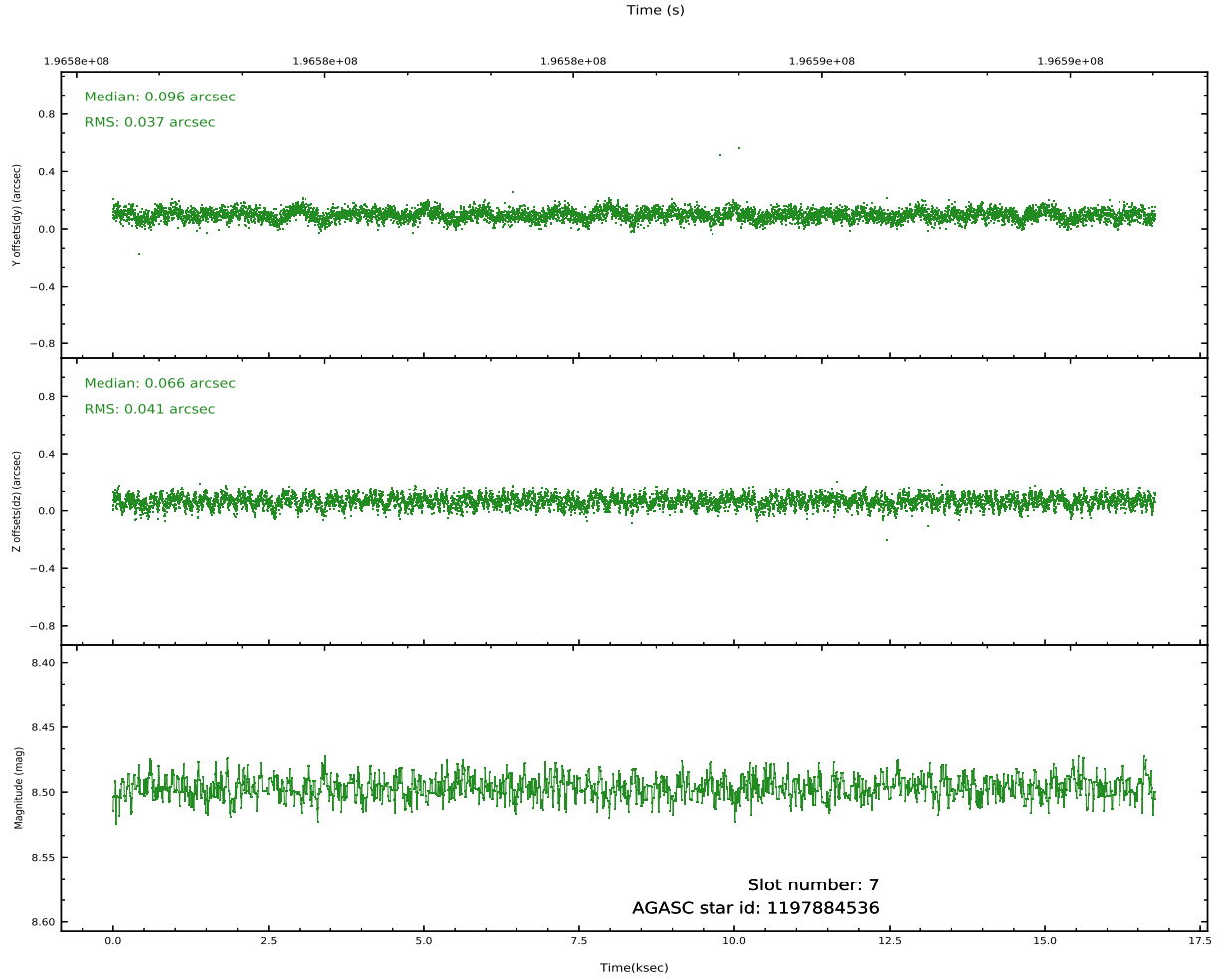
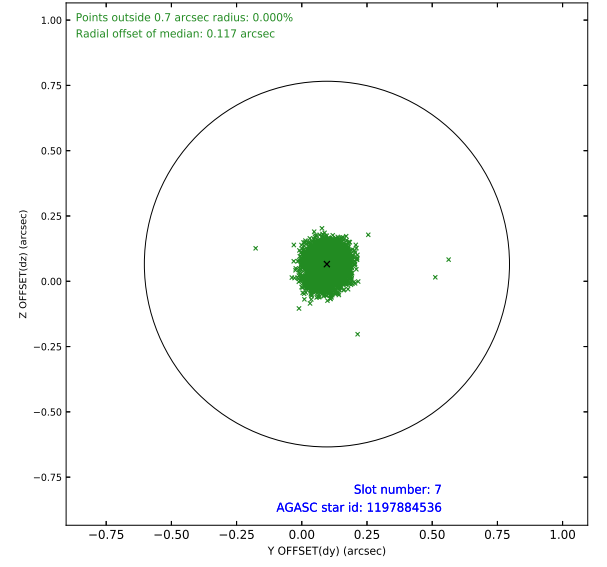
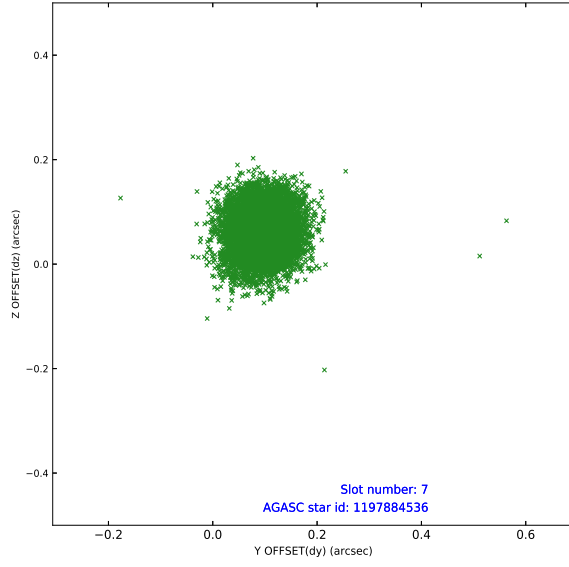
2.4.4 Slot 6



Time (s)

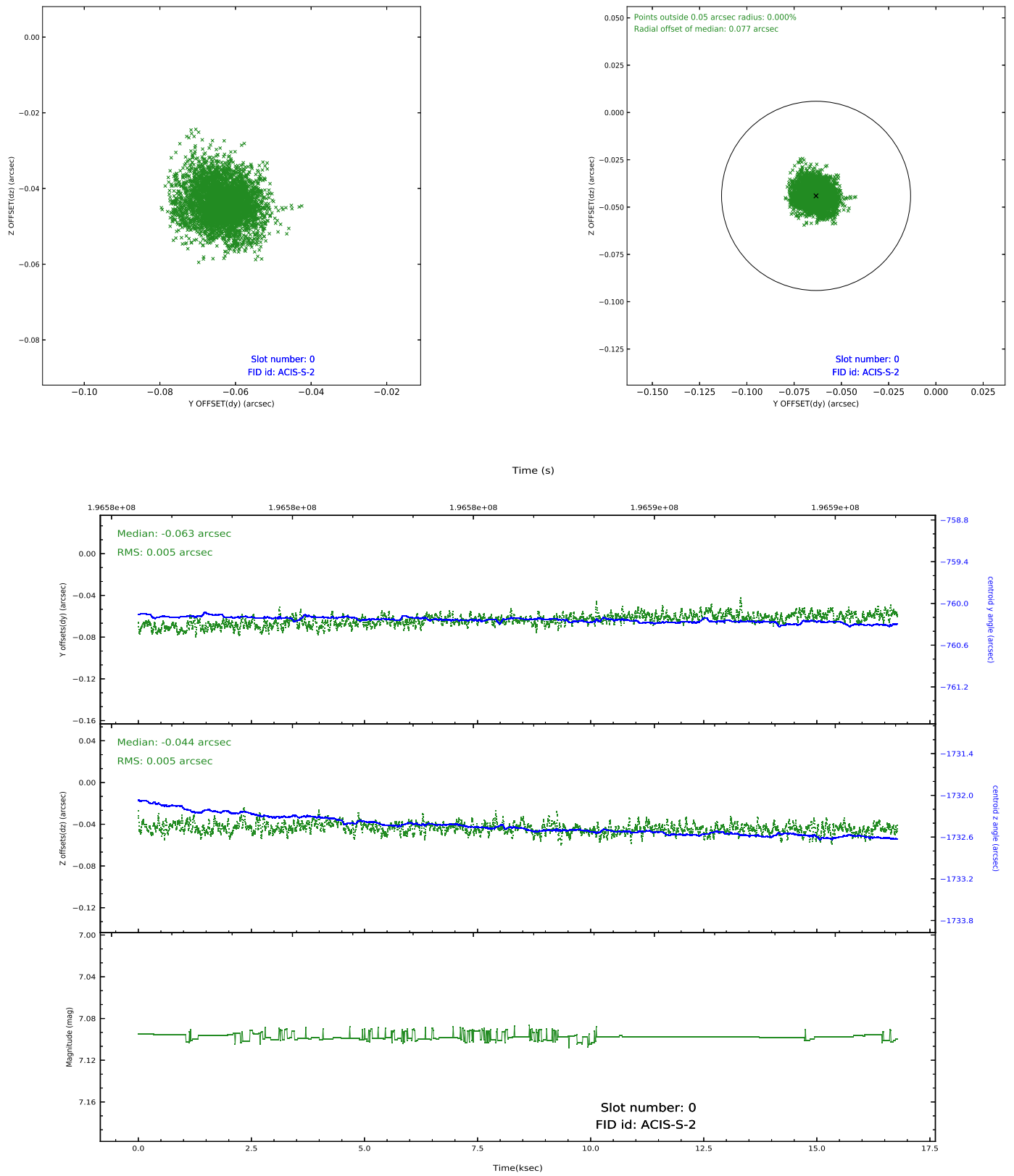


2.4.5 Slot 7

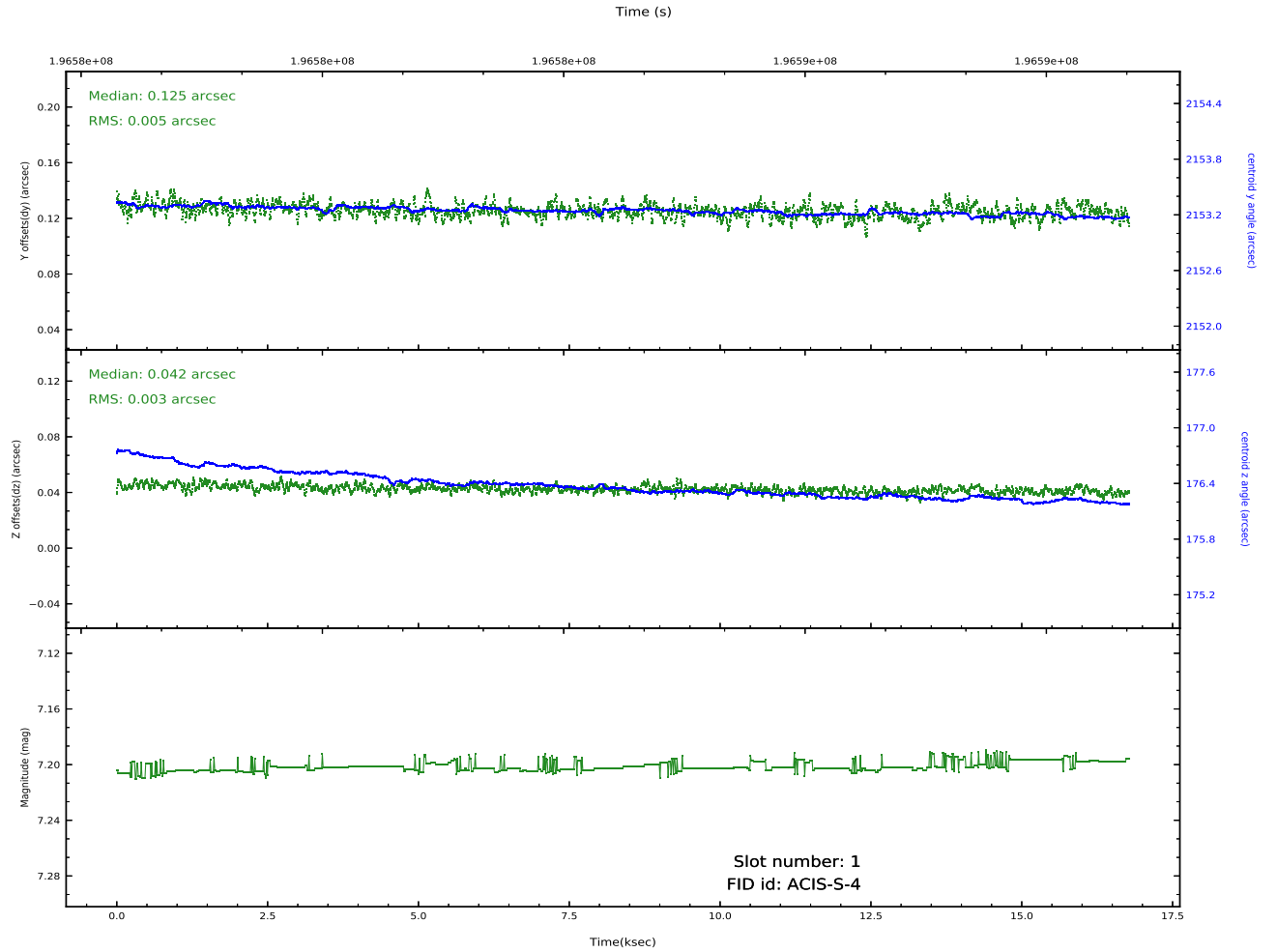
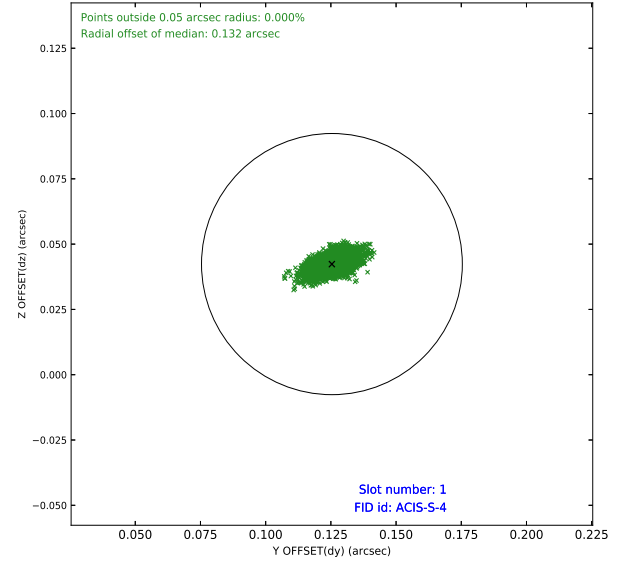
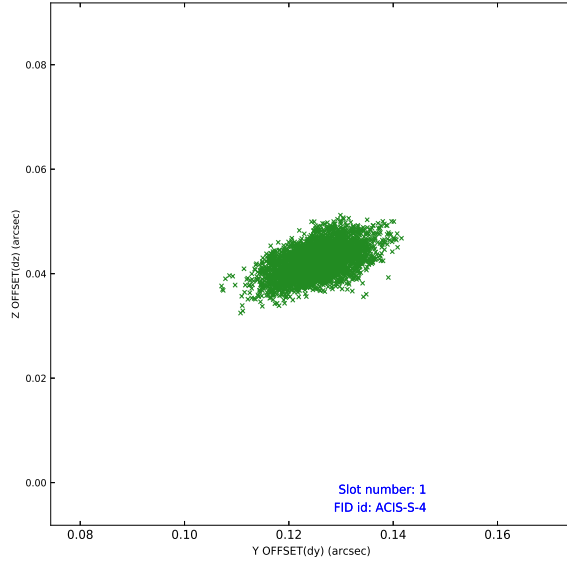


2.5 FID Slots

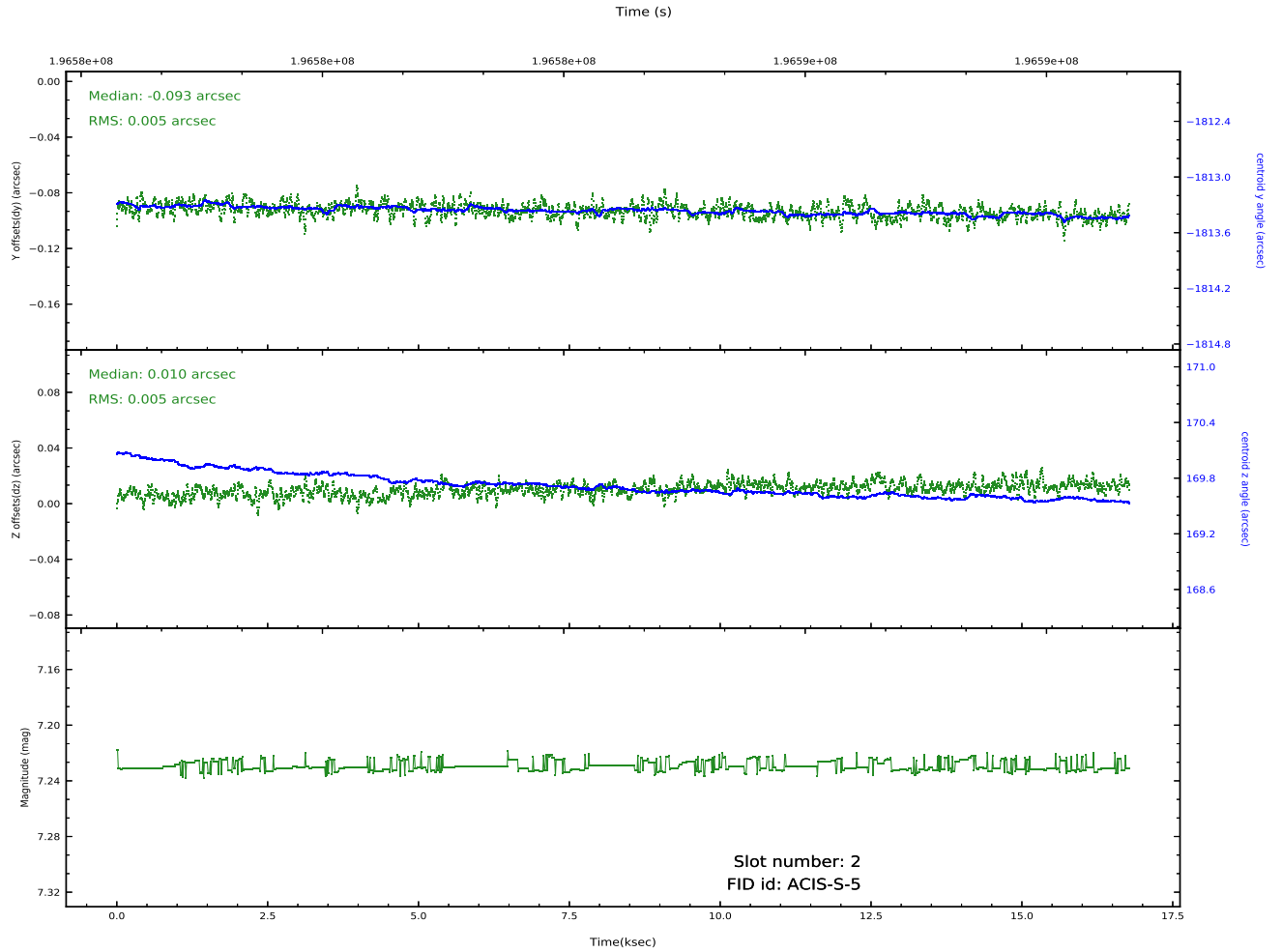
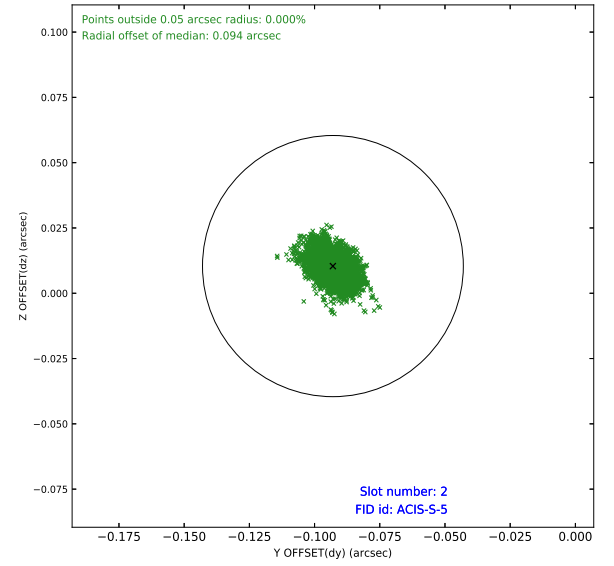
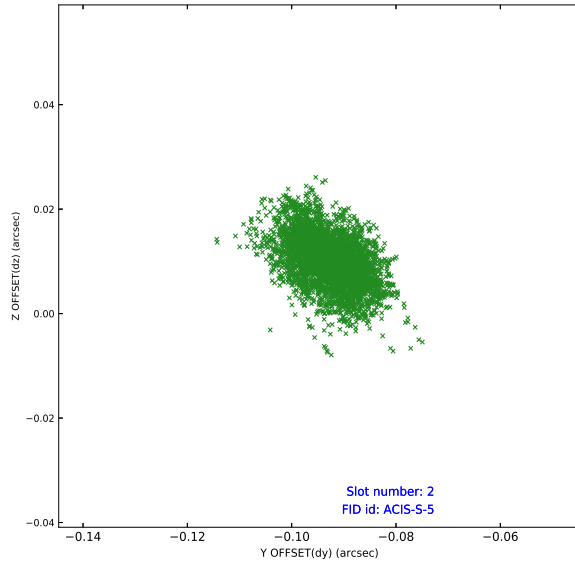
2.5.1 Slot 0



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)	2020.09.24
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	16.78

A.2 Comments