

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 4919 - L2 Version 4
Chandra X-Ray Center

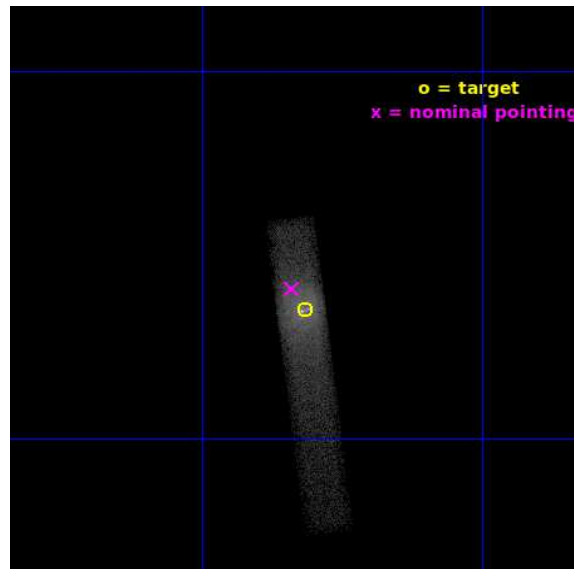
L2 Processing Date : Sep 23 2020

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1 Front

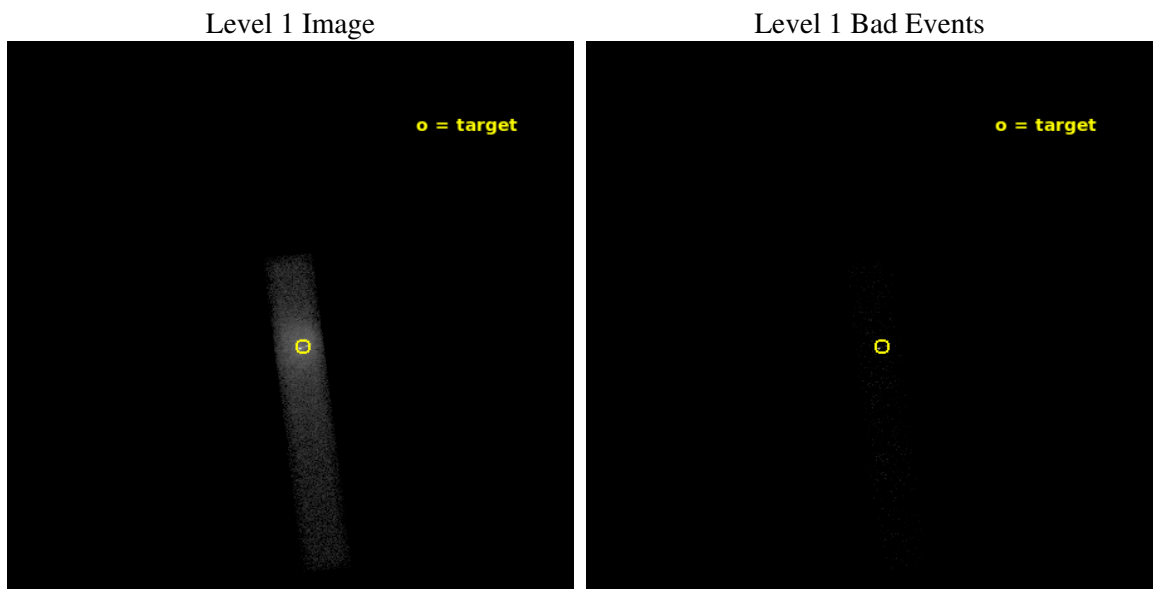
seq_num	701000	Sequence number
obs_id	4919	Observation id
title	HST/Chandra Monitoring of a Dramatic Flare in the M87 Jet	Proposal
observer	Dr. John Biretta	Principal investigator
object	M87	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	187.704167	Observer's specified target RA [deg]
dec_targ	12.391667	Observer's specified target Dec [deg]
ra_nom	187.70995022215	Nominal RA [deg]
dec_nom	12.401339719956	Nominal Dec [deg]
roll_nom	83.00072558578	Nominal Roll [deg]
revision	4	Processing version of data
ontime	5185.6000772417	Sum of GTIs [s]
livetime	4703.0655516431	Livetime [s]
ontime7	5185.6000772417	Sum of GTIs [s]
l2events	60740	Number of level 2 events



2 OBI

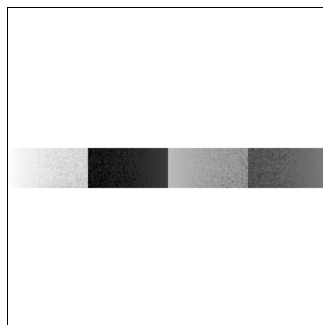
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	5185.6000772417	Sum of GTIs [s]
caldsver	4.9.2	 	ontime7	5185.6000772417	Sum of GTIs [s]
date	2020-09-23T06:33:53	Date and time of file creation	l1events	70679	Number of level 1 events
revision	4	Processing version of data			

2.1.4 Events

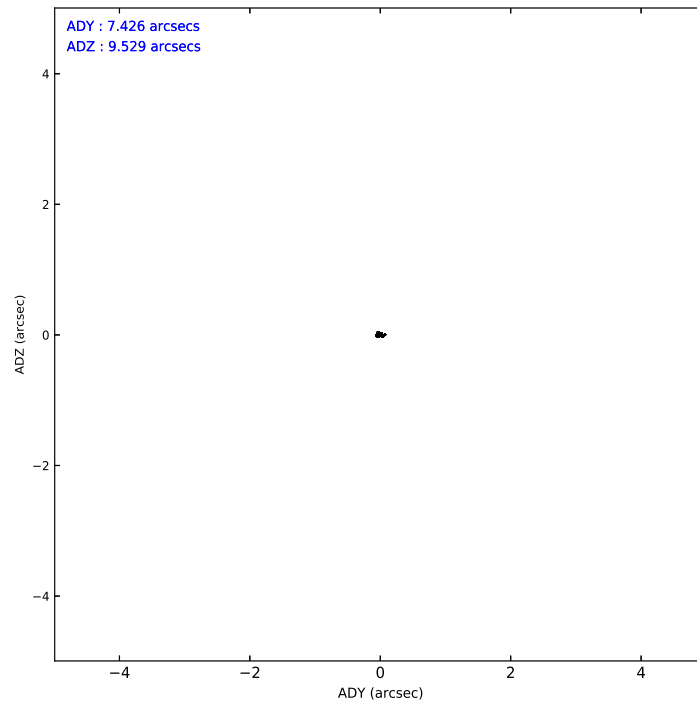
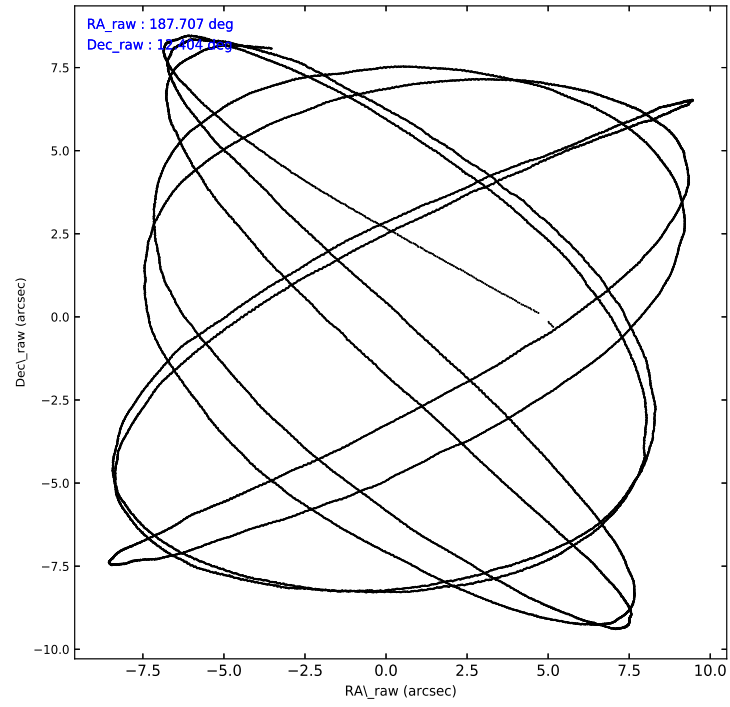
	ccd 7
level 1 events	70679
rejected events	9227
rejected %	13%

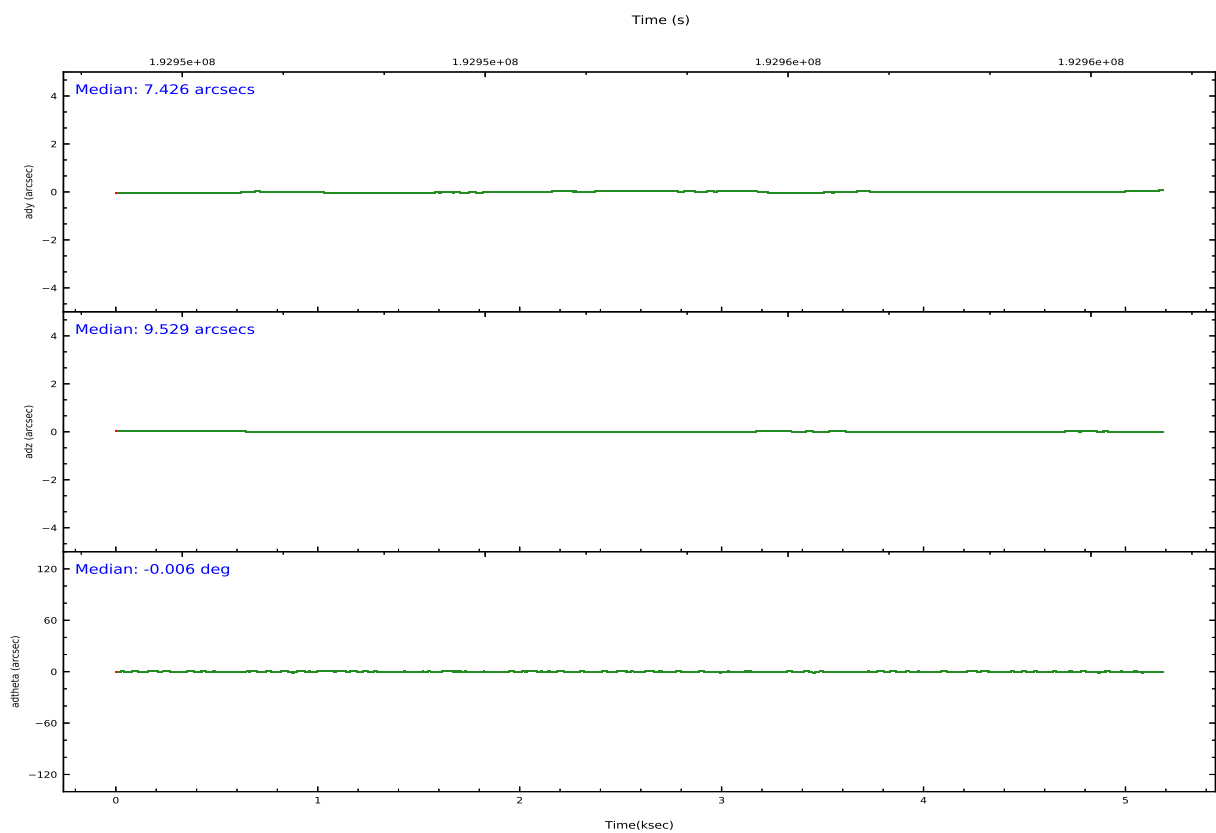
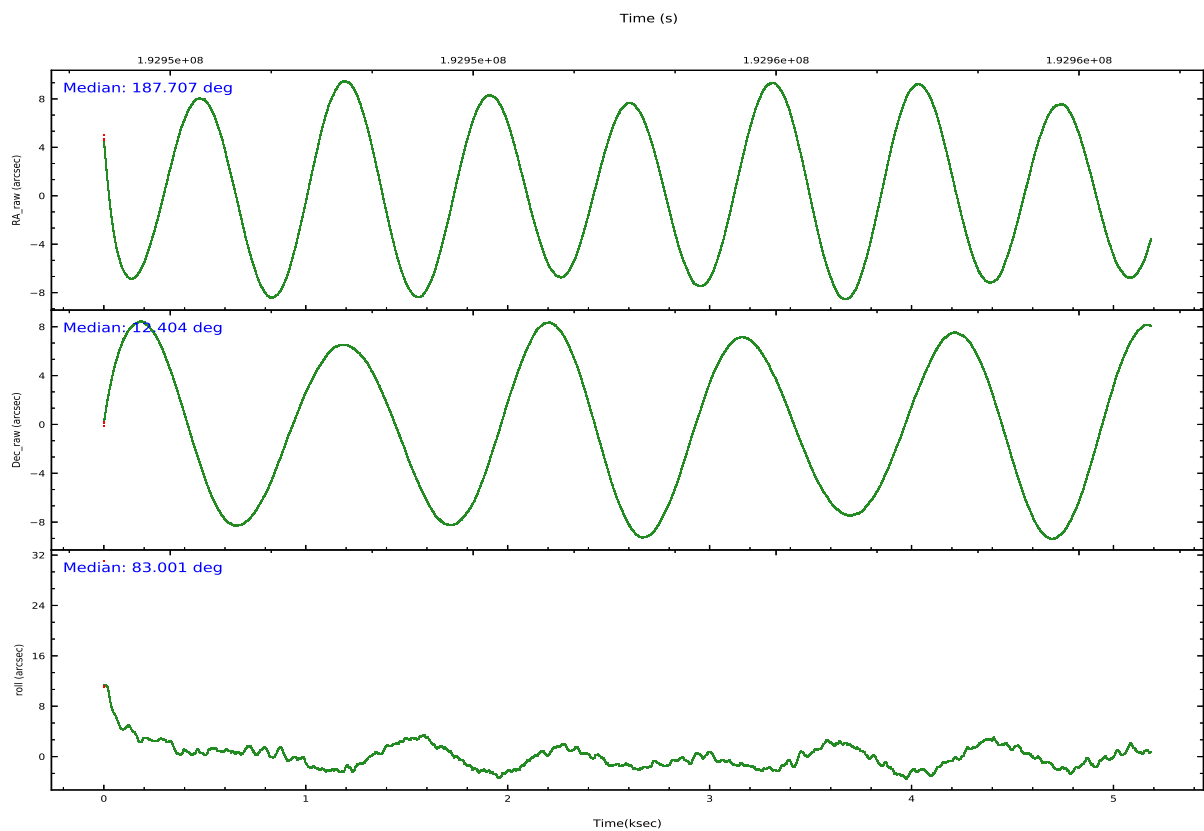
	ccd 7
grade 0 events	19748
	27%
grade 1 events	338
	0%
grade 2 events	16053
	22%
grade 3 events	7392
	10%
grade 4 events	7189
	10%
grade 5 events	2145
	3%
grade 6 events	12975
	18%
grade 7 events	4839
	6%

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	187.718674	187.70995022215	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	12.378805	12.401339719956	Subarray start row	449	449
[deg] Pointing Roll	82.844836	83.00072558578	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	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	192951858.184000	192950862.73212			
Observation start date	2004-02-12T05:43:14	2004-02-12T05:27:42			
[s] Observation end time (MET)	192956858.184000	192957346.3699			
Observation end date	2004-02-12T07:06:34	2004-02-12T07:15:46			
Read mode	TIMED	TIMED			

2.3 Aspect



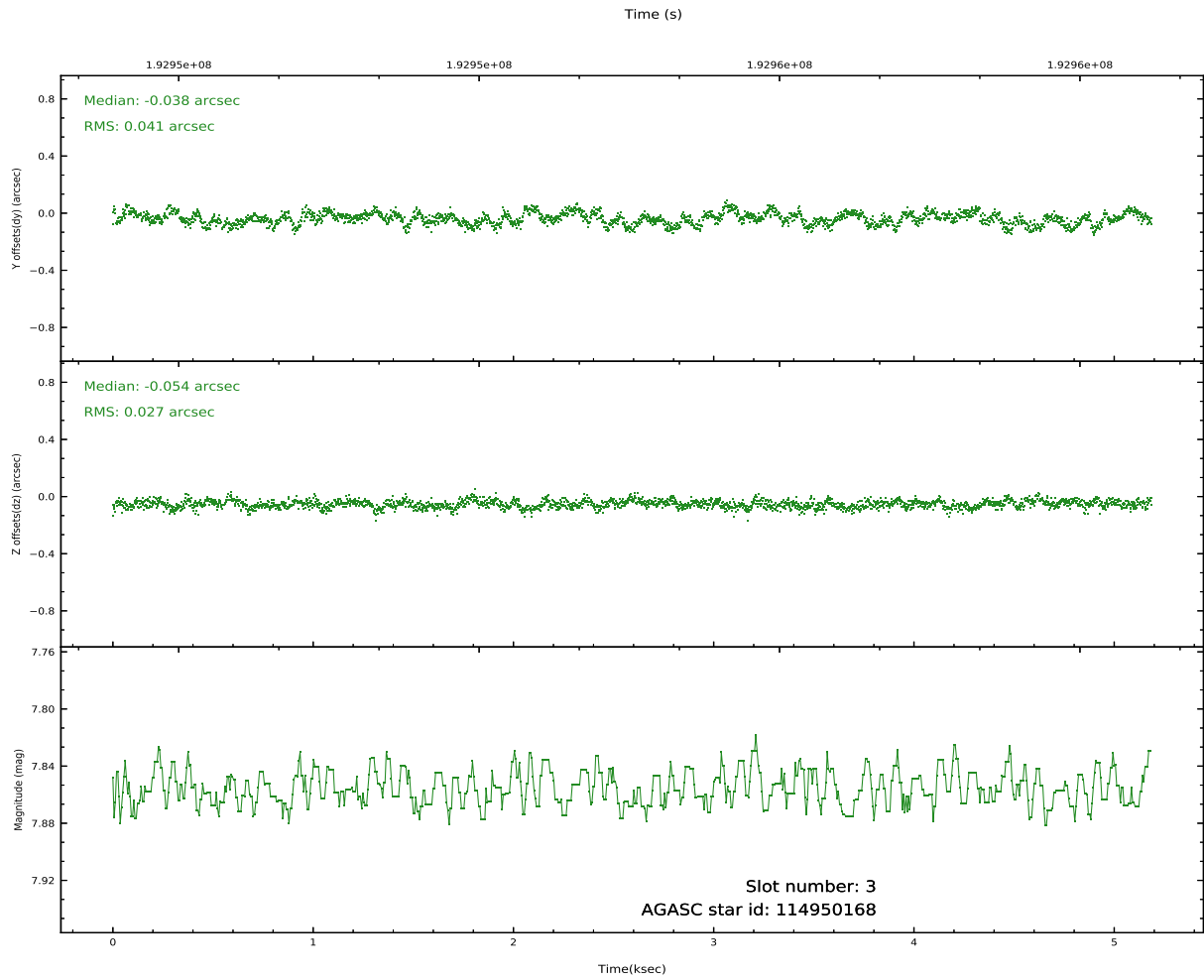
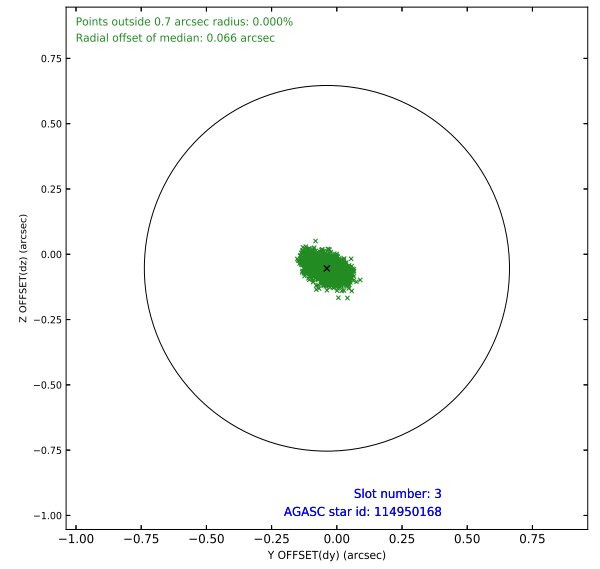
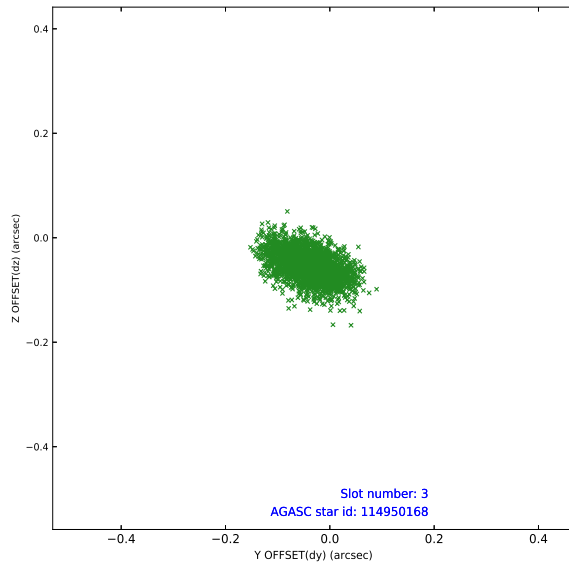


Slot Statistics

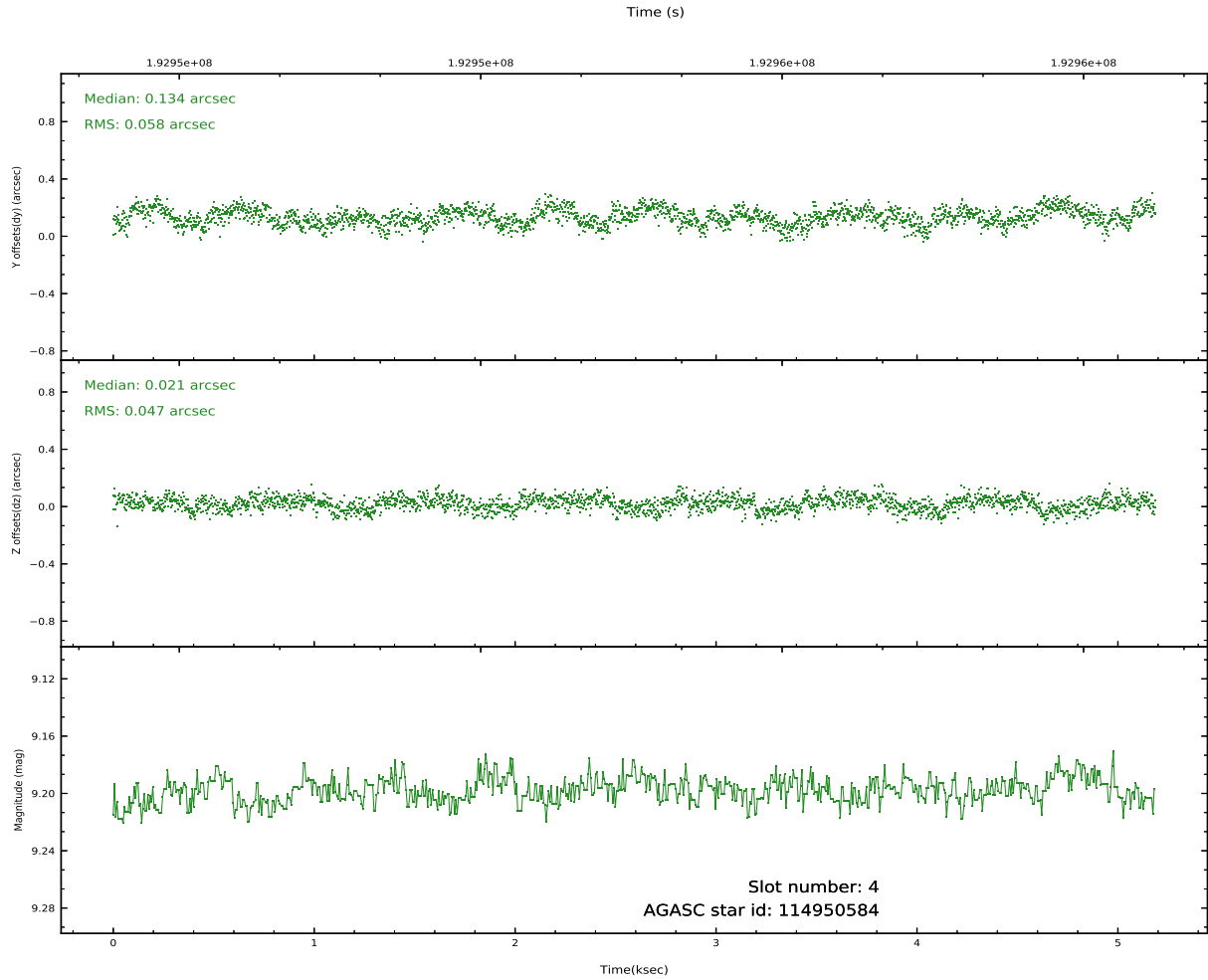
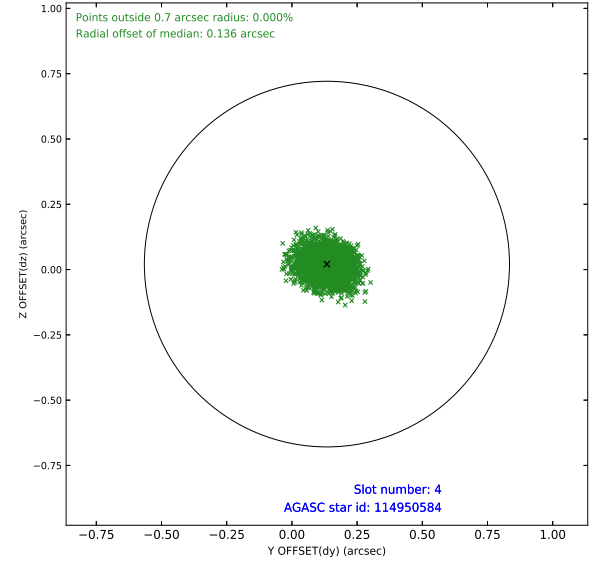
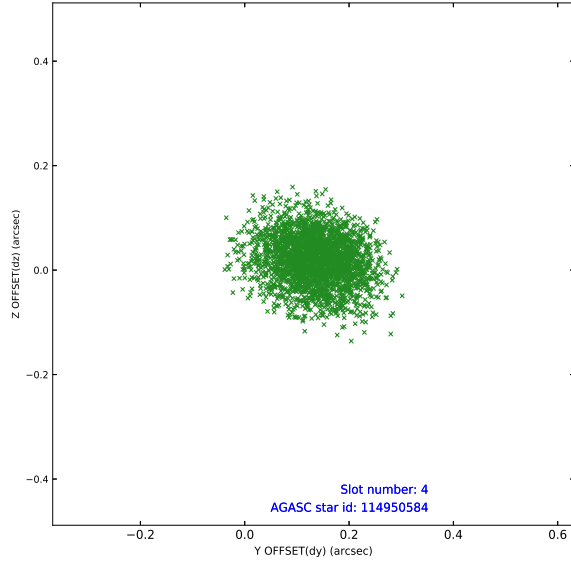
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.10	1266	1.000	-0.064	-0.068	0.006	0.011	0.000000	0.000000	-760.19	-1730
1	FID		ACIS-S-4	7.20	1266	1.000	0.143	0.049	0.006	0.010	0.000000	0.000000	2152.70	176
2	FID		ACIS-S-5	7.23	1266	1.000	-0.110	0.028	0.006	0.011	0.000000	0.000000	-1811.64	171
3	GUIDE	used	114950168	7.86	2531	1.000	-0.038	-0.054	0.052	0.088	187.143398	12.117441	-1184.21	1891
4	GUIDE	used	114950584	9.20	2530	1.000	0.134	0.021	0.079	0.127	187.487323	11.827248	-2071.93	562
5	GUIDE	used	114952824	8.56	2531	1.000	-0.079	-0.043	0.067	0.108	187.703904	12.486727	377.95	100
6	GUIDE	used	114955056	8.34	2531	1.000	0.012	0.065	0.061	0.095	187.914001	12.127854	-810.38	-794
7	GUIDE	used	114955568	7.52	2530	1.000	-0.031	0.013	0.061	0.103	187.061916	11.826551	-2258.98	2048

2.4 Star Slots

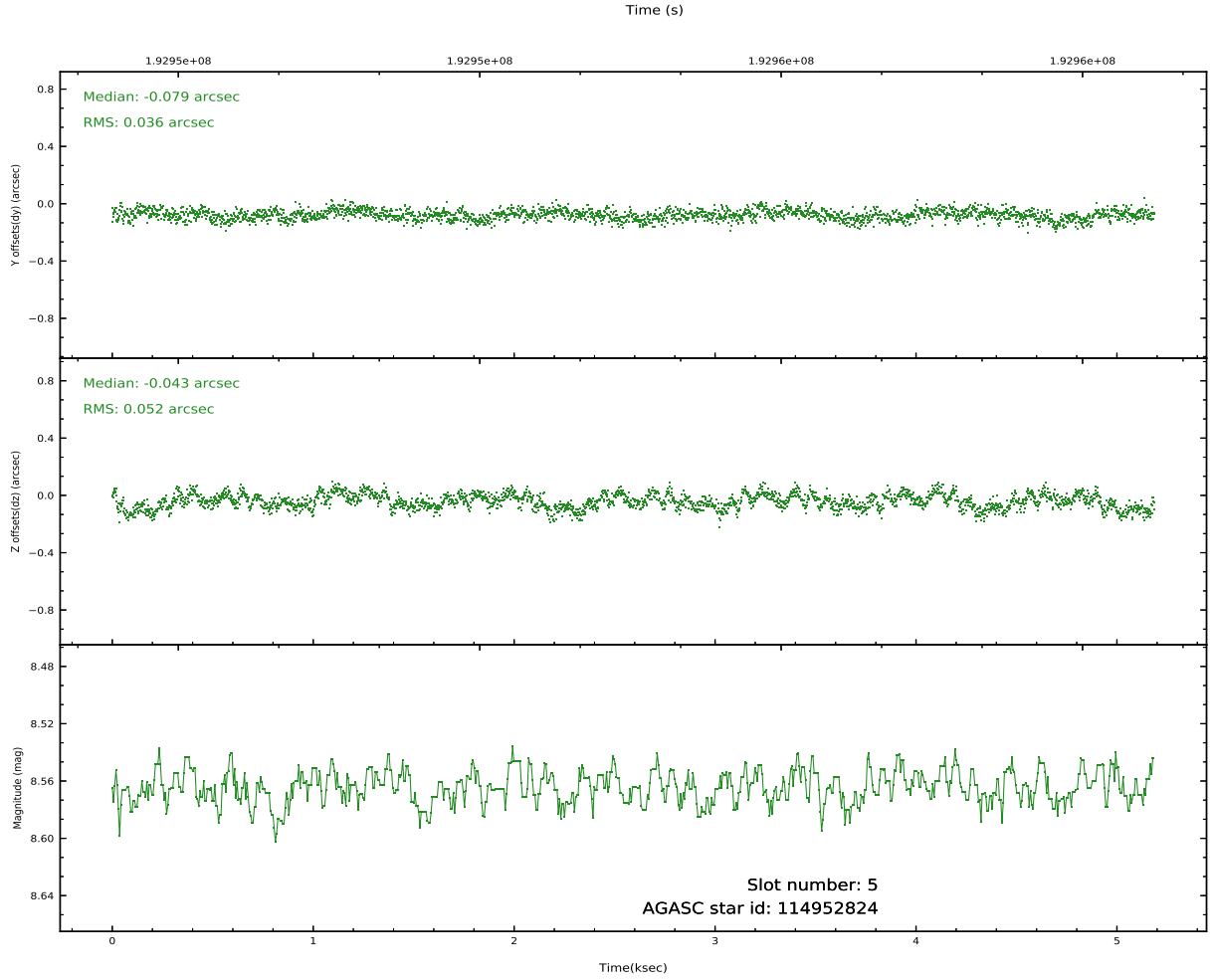
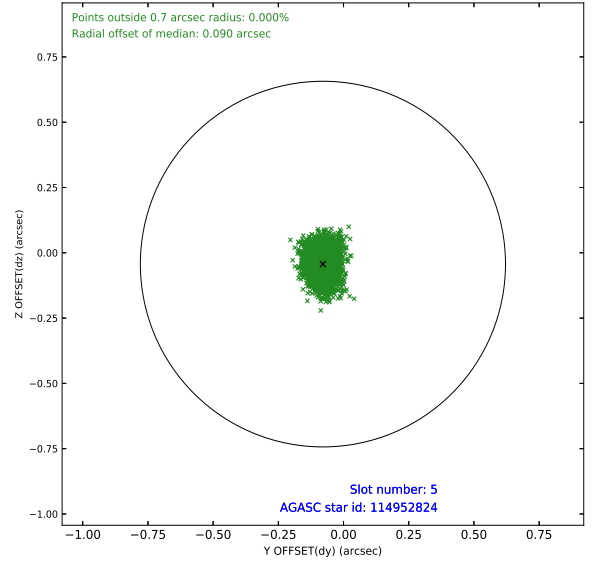
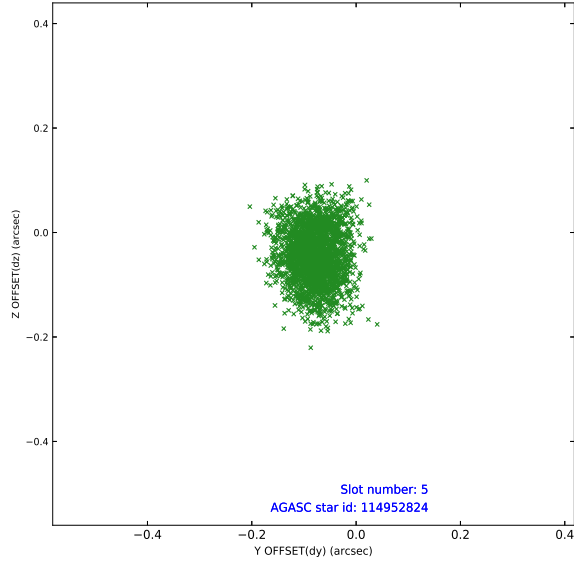
2.4.1 Slot 3



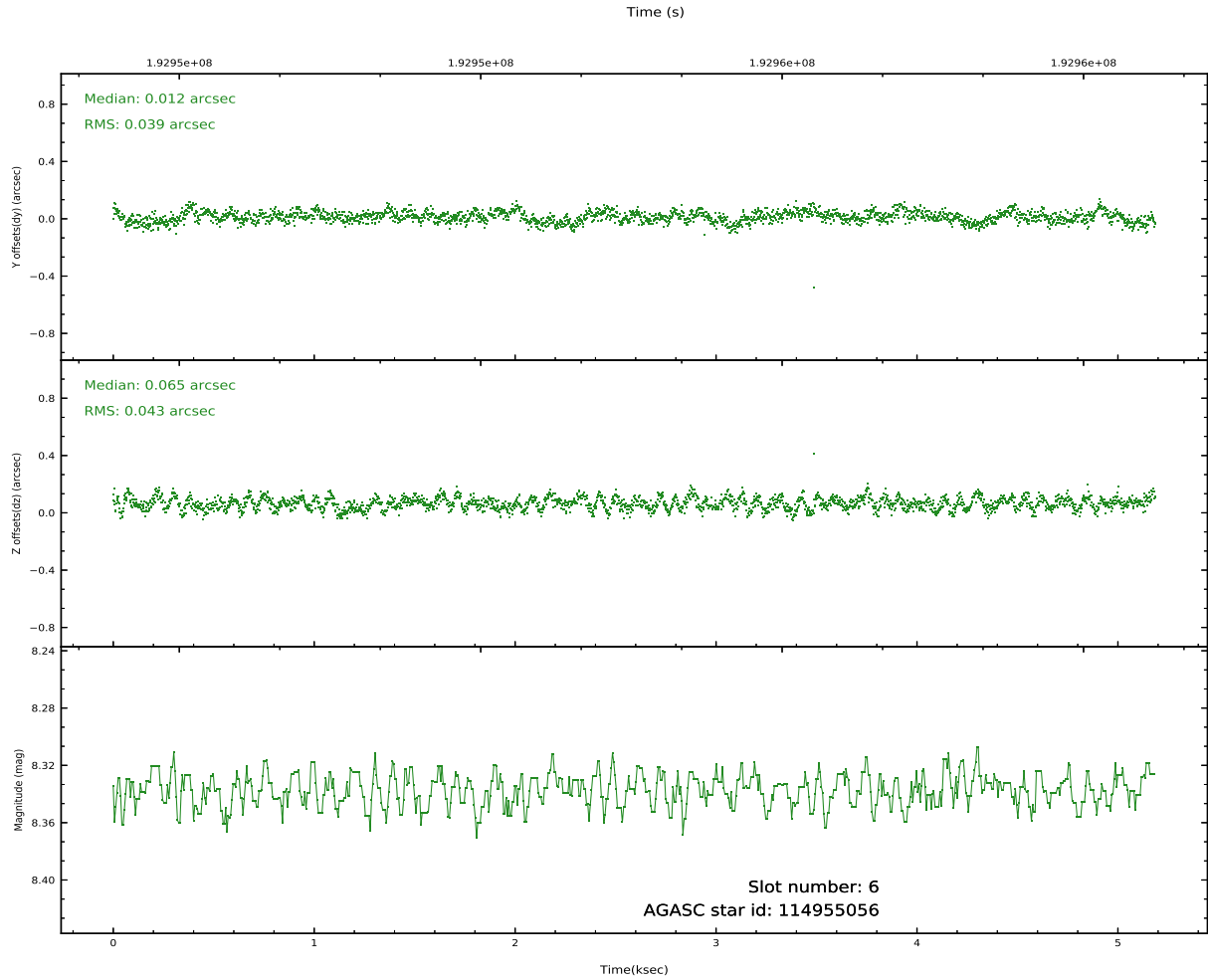
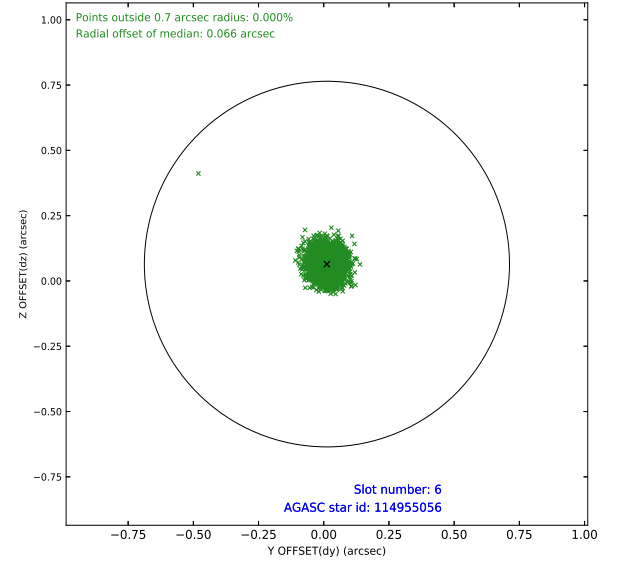
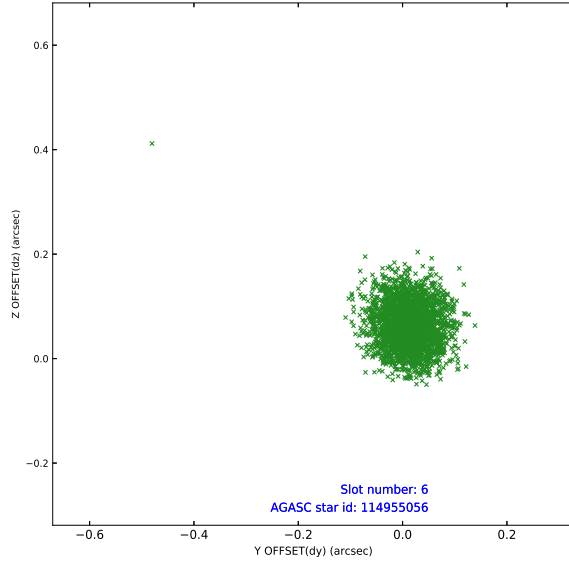
2.4.2 Slot 4



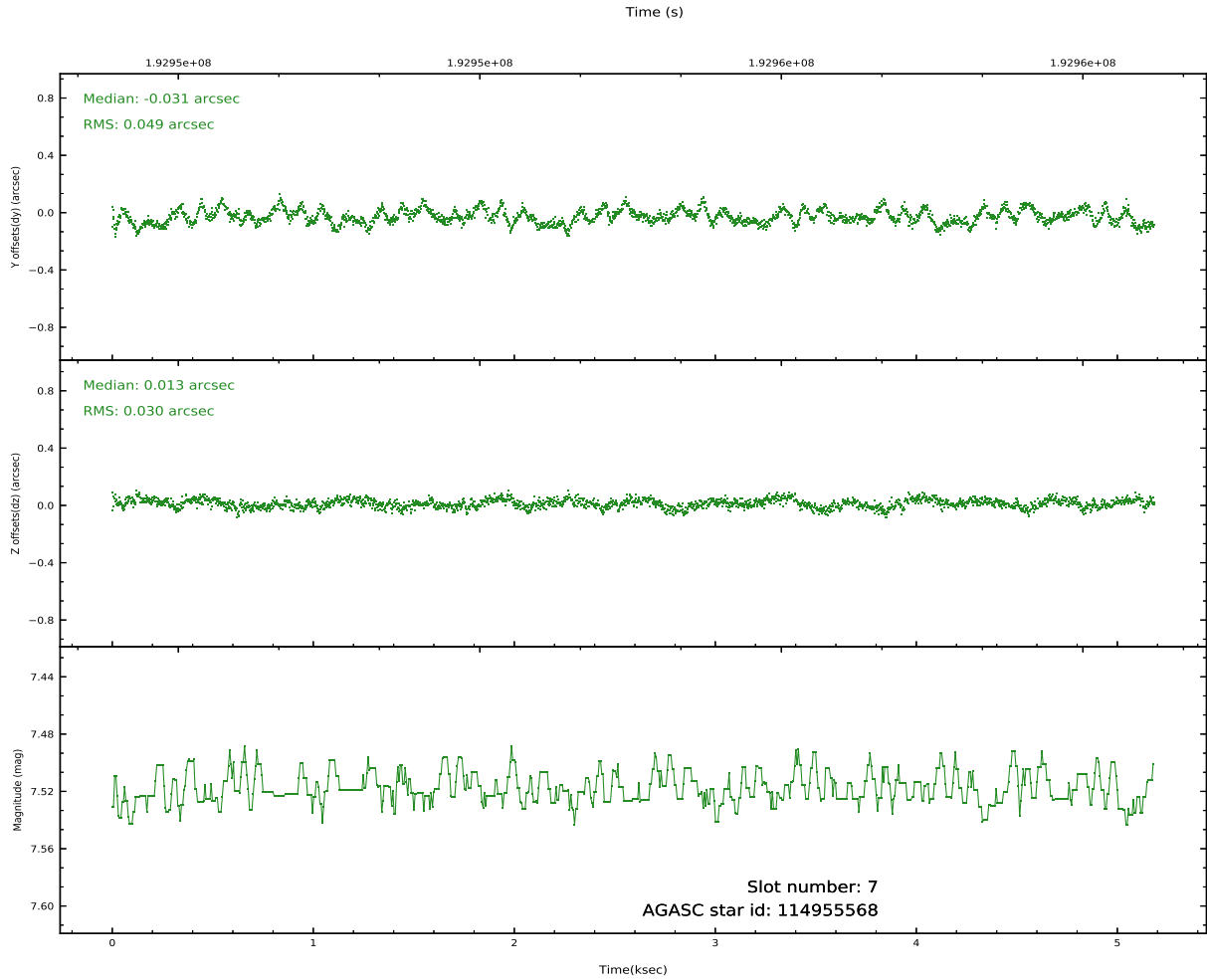
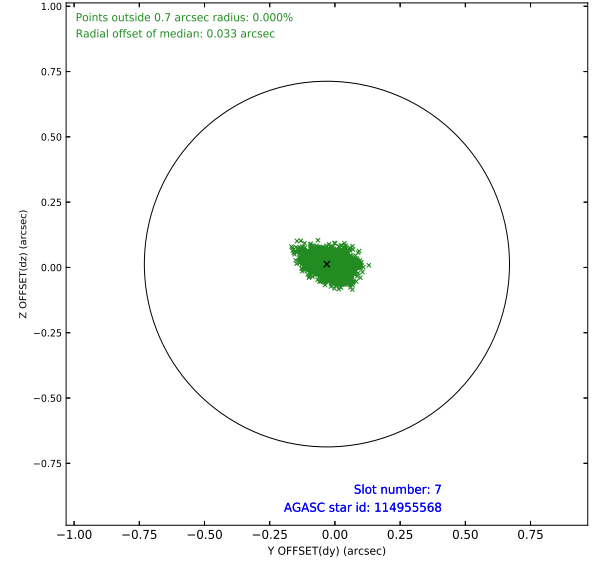
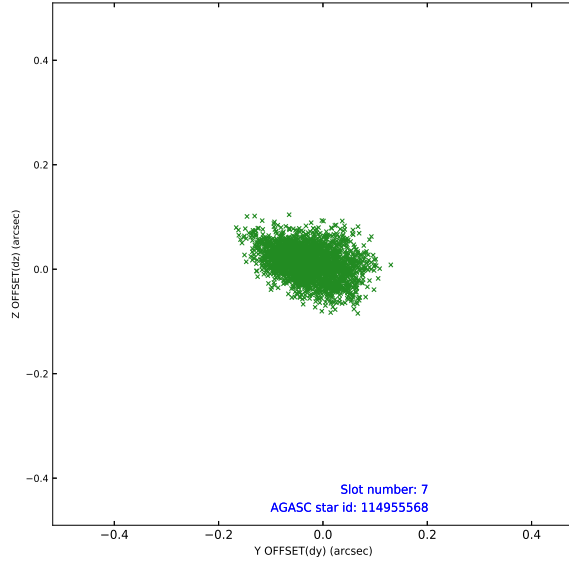
2.4.3 Slot 5



2.4.4 Slot 6

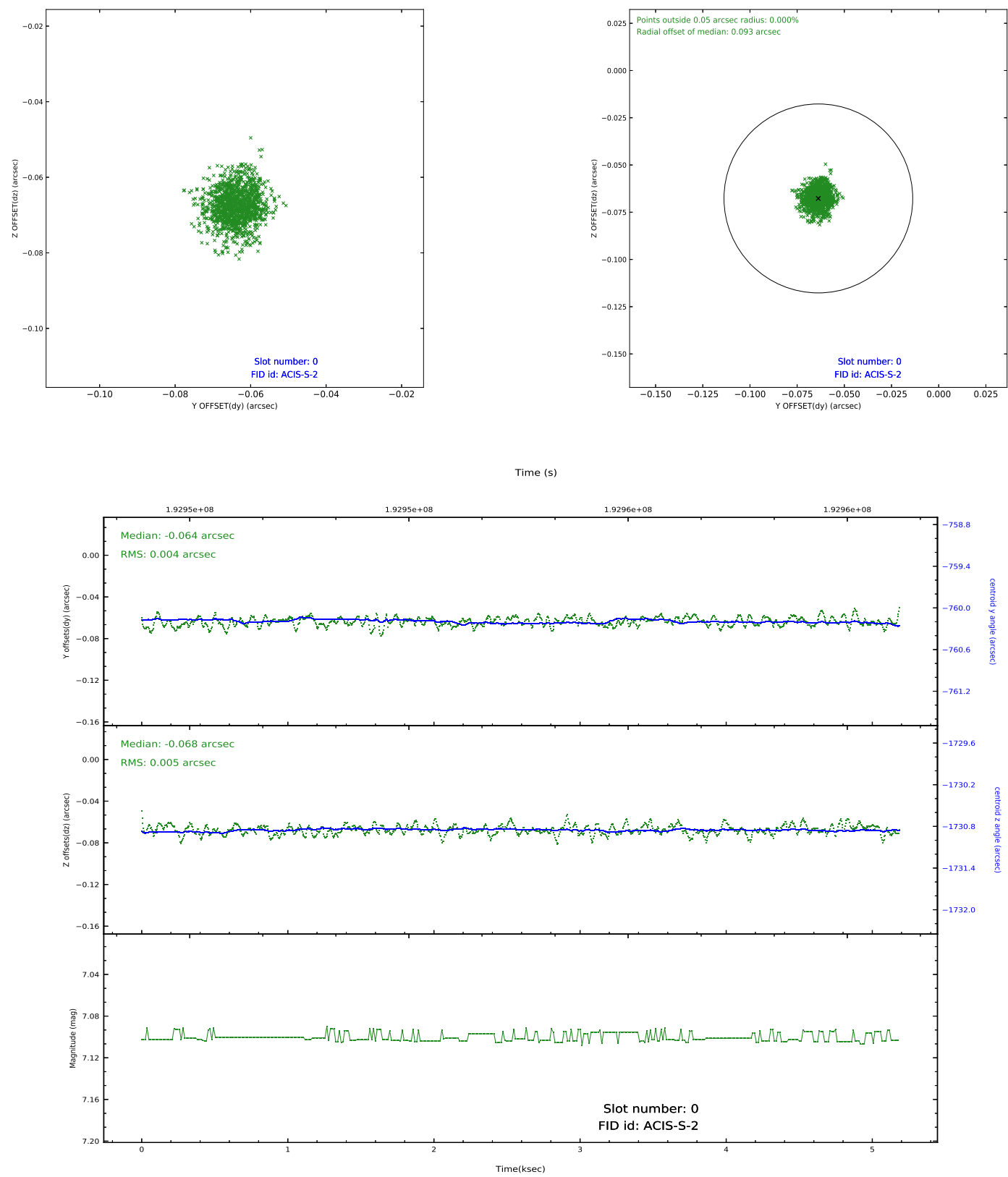


2.4.5 Slot 7

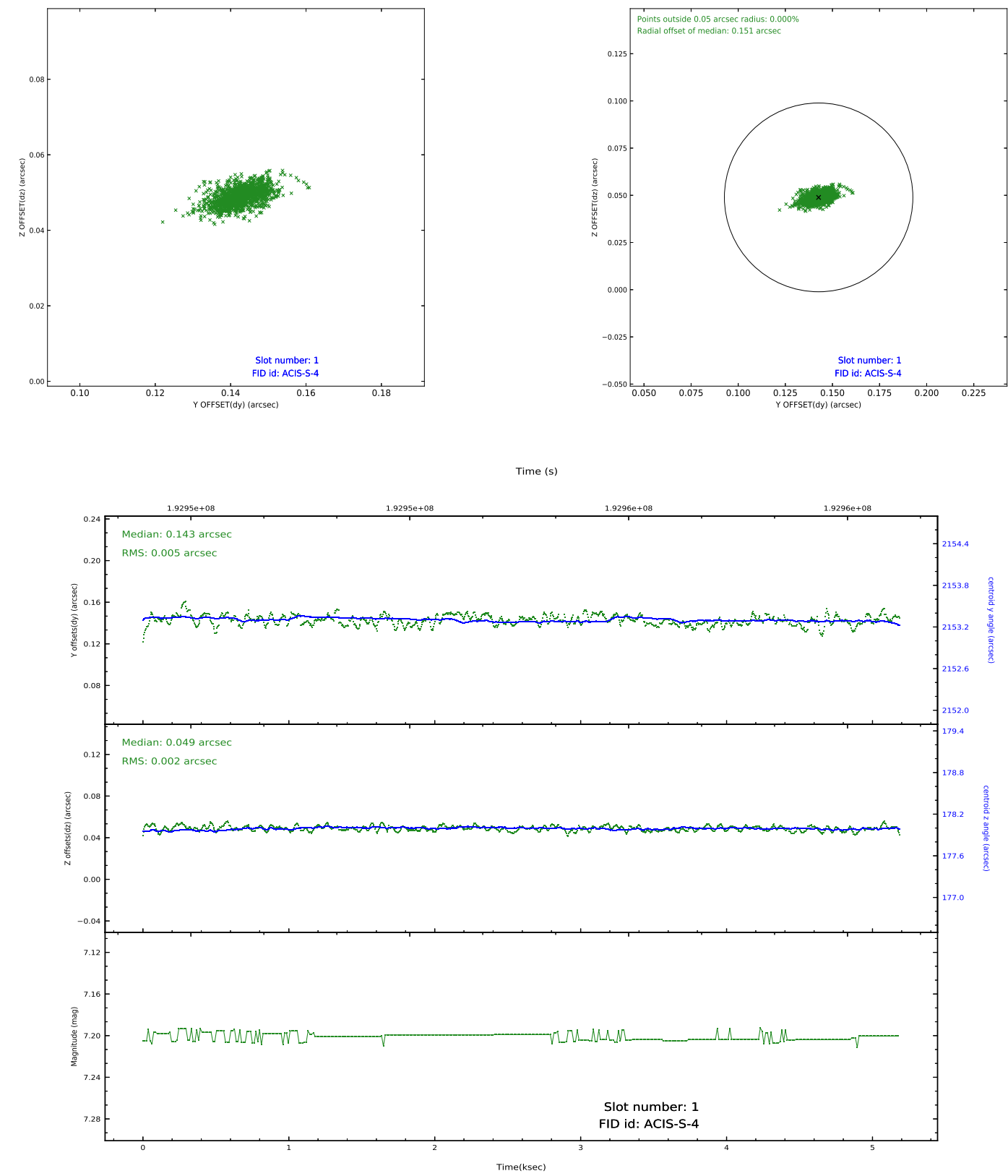


2.5 FID Slots

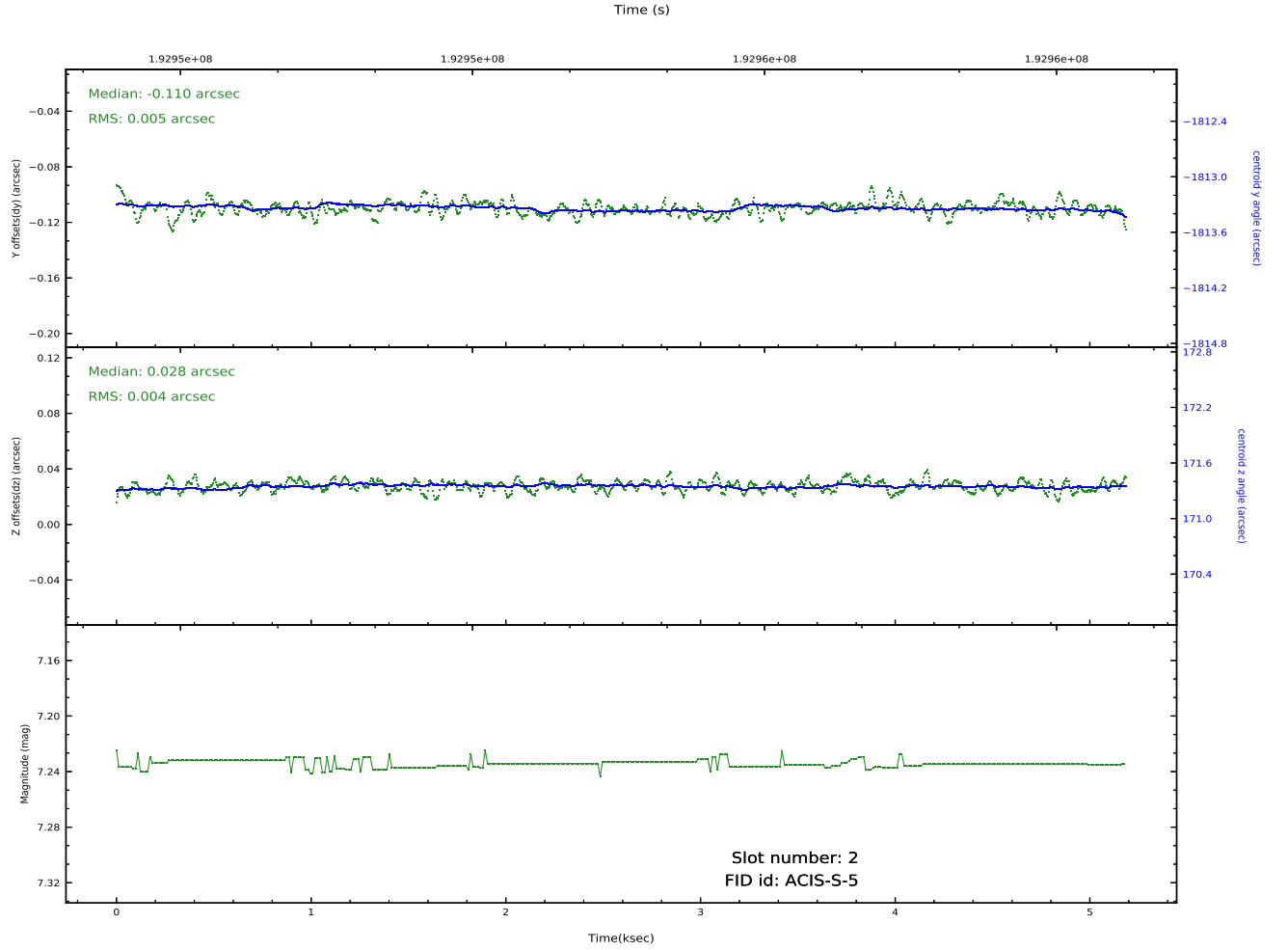
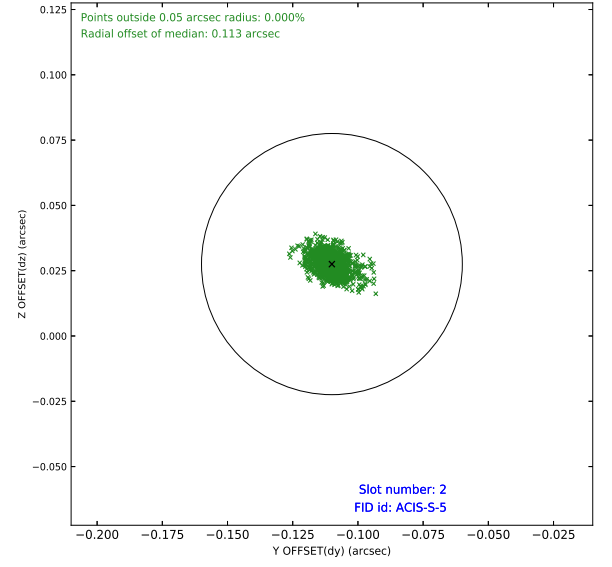
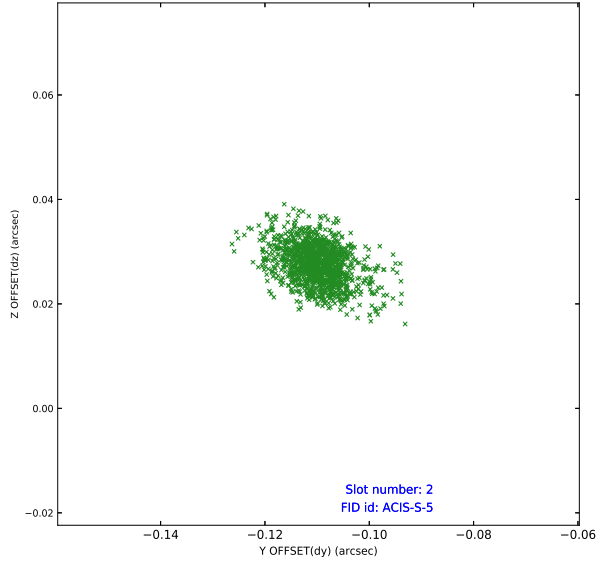
2.5.1 Slot 0



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)	2020.09.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.185

A.2 Comments

Joint proposal with HST.