

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 4921 - L2 Version 4
Chandra X-Ray Center

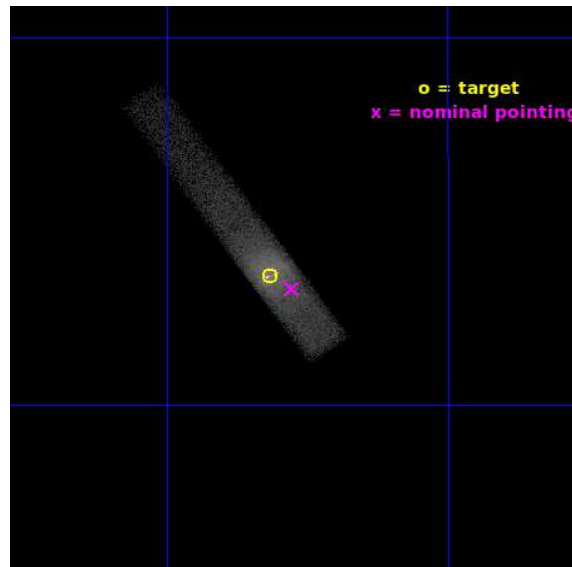
L2 Processing Date : Sep 25 2020

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1 Front

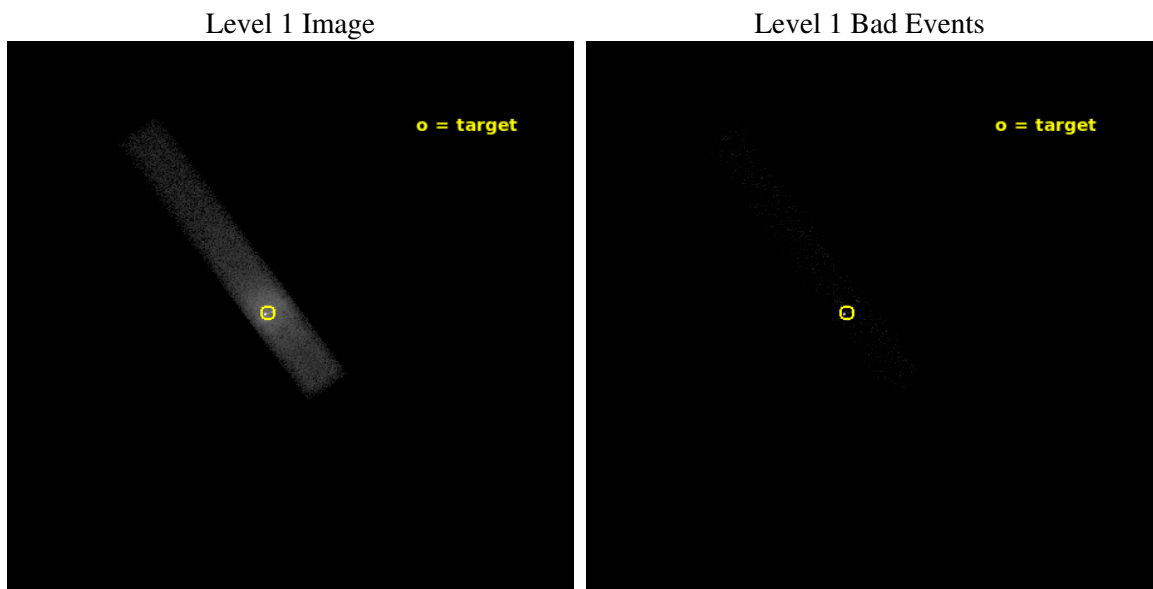
seq_num	701002	Sequence number
obs_id	4921	Observation id
title	HST/Chandra Monitoring of a Dramatic Flare in the M87 Jet	Proposal
observer	Dr. John Biretta	Principal investigator
object	M87	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	187.704167	Observer's specified target RA [deg]
dec_targ	12.391667	Observer's specified target Dec [deg]
ra_nom	187.69441371032	Nominal RA [deg]
dec_nom	12.385913432172	Nominal Dec [deg]
roll_nom	234.59884778999	Nominal Roll [deg]
revision	4	Processing version of data
ontime	5789.600086242	Sum of GTIs [s]
livetime	5250.8616780718	Livetime [s]
ontime7	5789.600086242	Sum of GTIs [s]
l2events	69760	Number of level 2 events



2 OBI

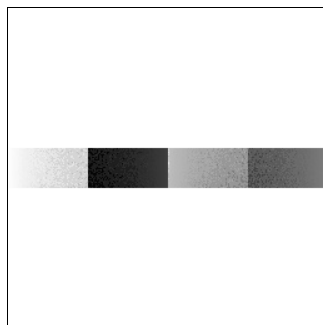
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	4968.251000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	5789.600086242	Sum of GTIs [s]
caldsver	4.9.2	 	ontime7	5789.600086242	Sum of GTIs [s]
date	2020-09-25T20:08:54	Date and time of file creation	l1events	81287	Number of level 1 events
revision	4	Processing version of data			

2.1.4 Events

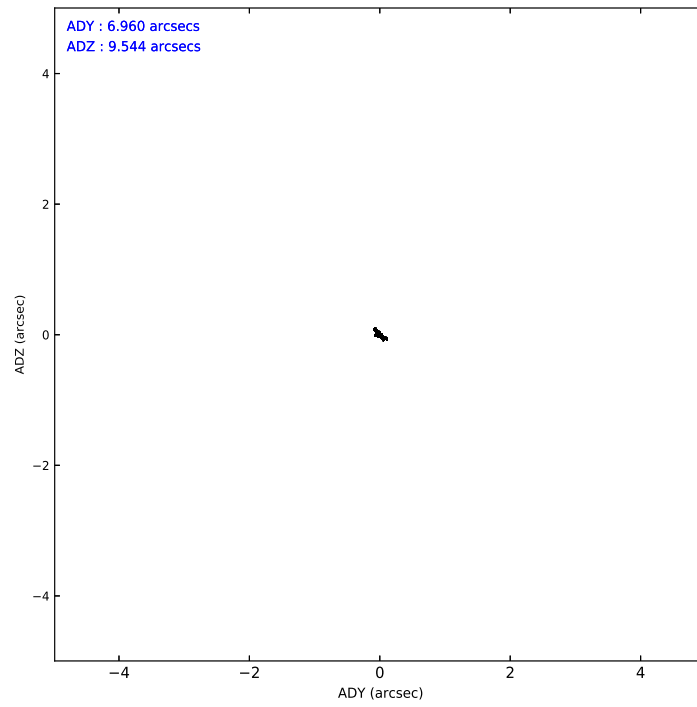
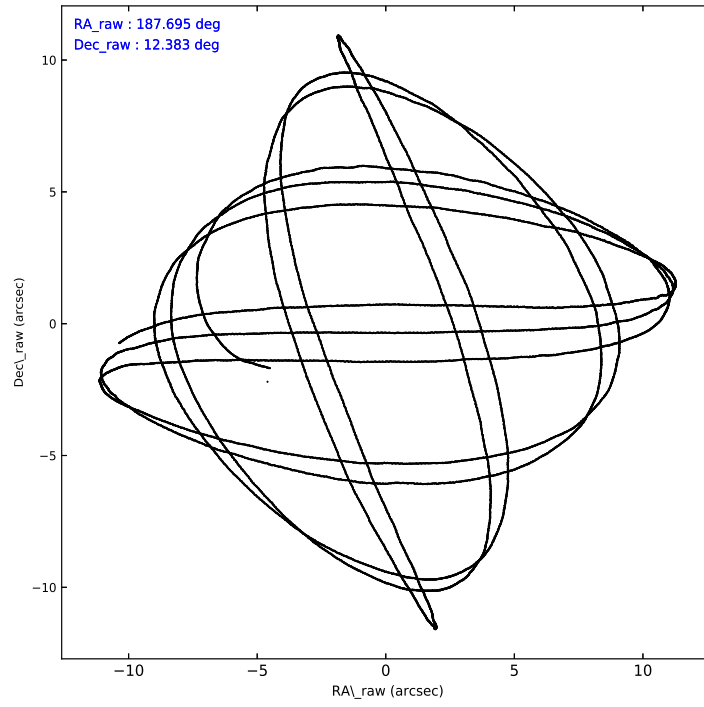
	ccd 7
level 1 events	81287
rejected events	10843
rejected %	13%

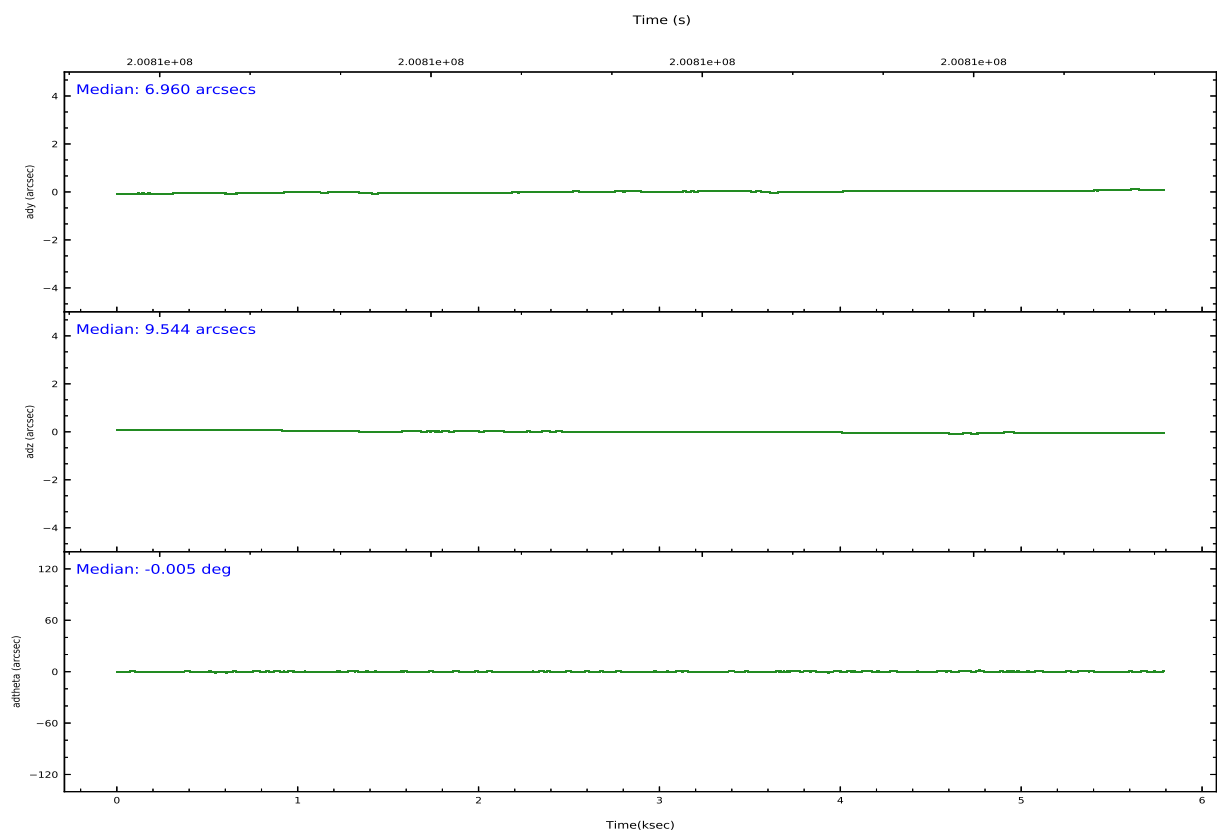
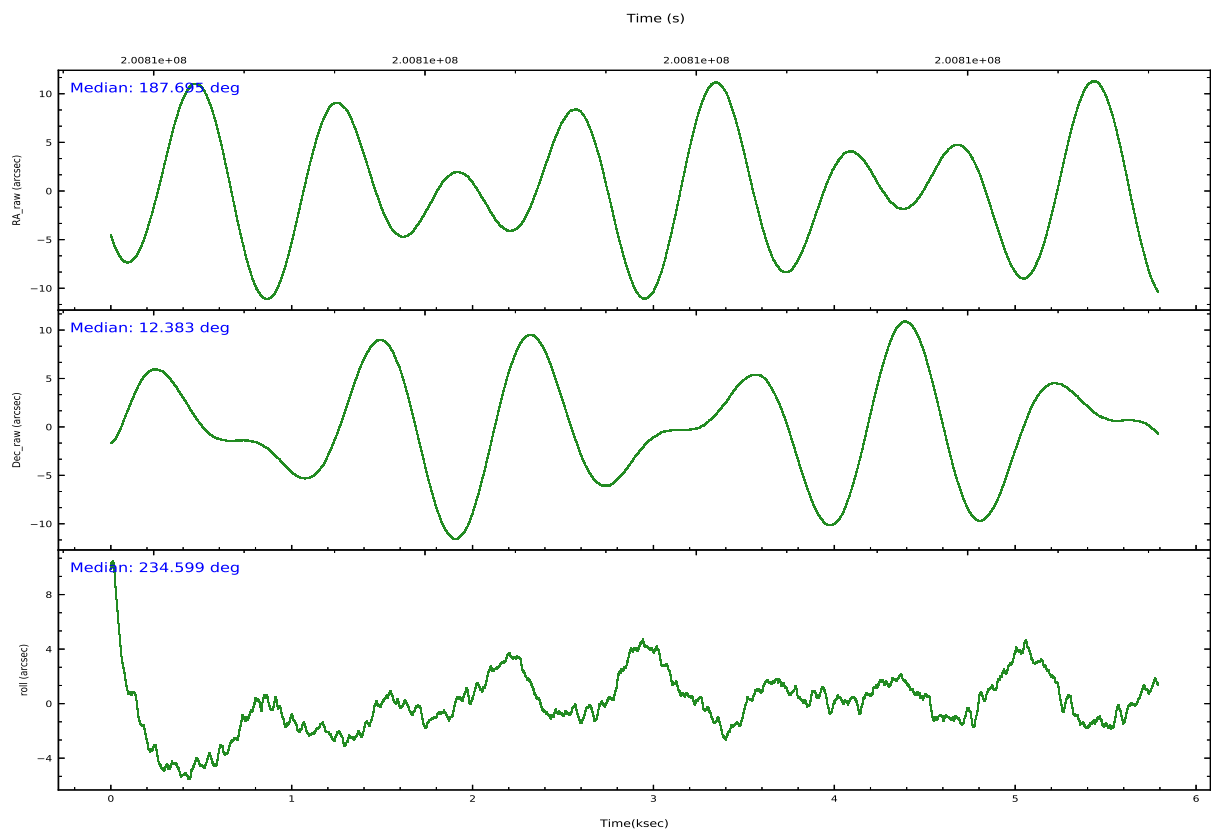
	ccd 7
grade 0 events	21146
	26%
grade 1 events	537
	0%
grade 2 events	17574
	21%
grade 3 events	8002
	9%
grade 4 events	7859
	9%
grade 5 events	2889
	3%
grade 6 events	16374
	20%
grade 7 events	6906
	8%

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	187.697670	187.69441371032	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	12.409725	12.385913432172	Subarray start row	449	449
[deg] Pointing Roll	234.444581	234.59884778999	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	-190.145094680475			
[mm] SIM translation stage offset	0	0.01257209746719923			
[s] Observation start time (MET)	200808084.184000	200806804.40231			
Observation start date	2004-05-13T04:00:20	2004-05-13T03:40:04			
[s] Observation end time (MET)	200813053.184000	200813367.4776			
Observation end date	2004-05-13T05:23:09	2004-05-13T05:29:27			
Read mode	TIMED	TIMED			

2.3 Aspect



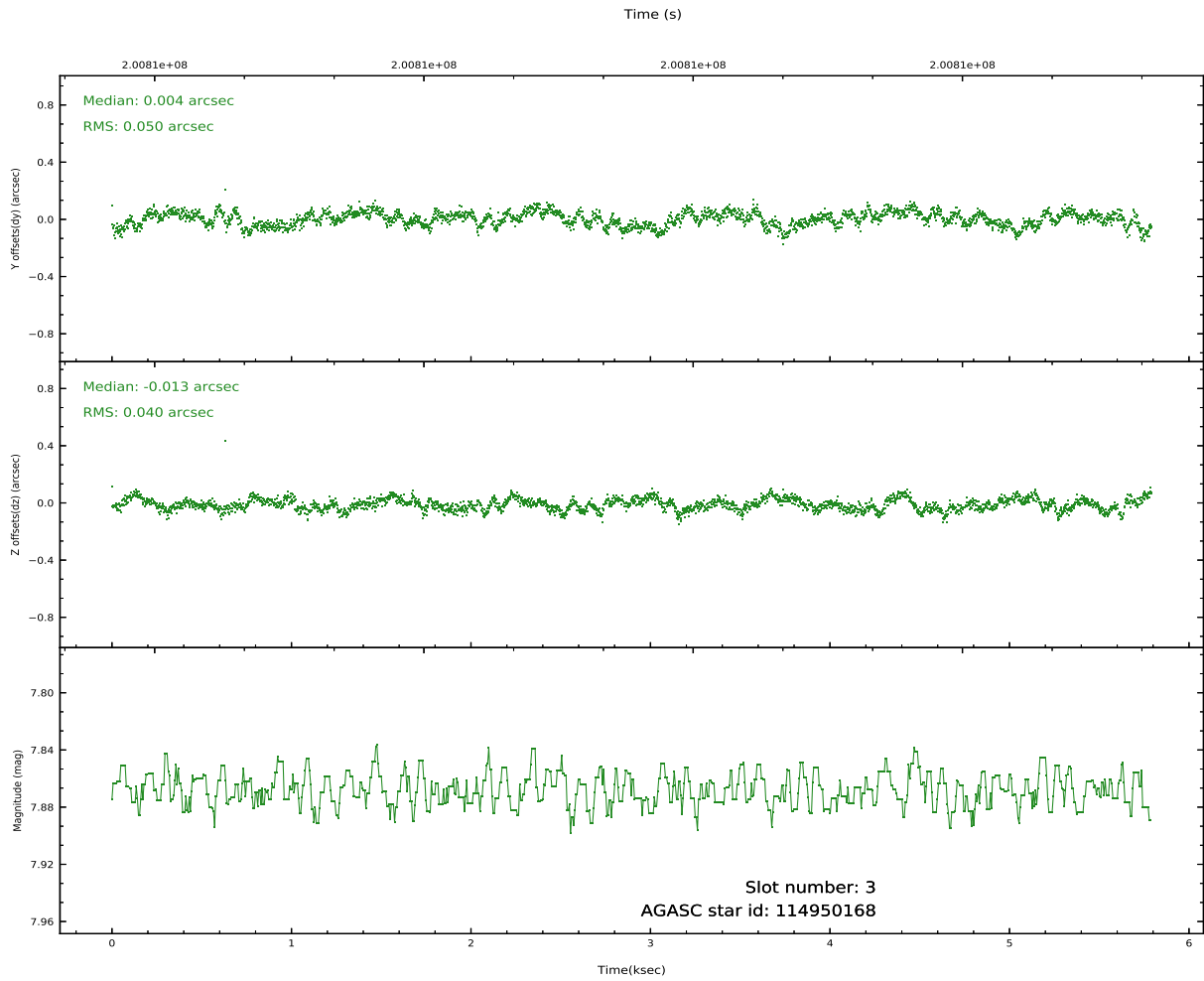
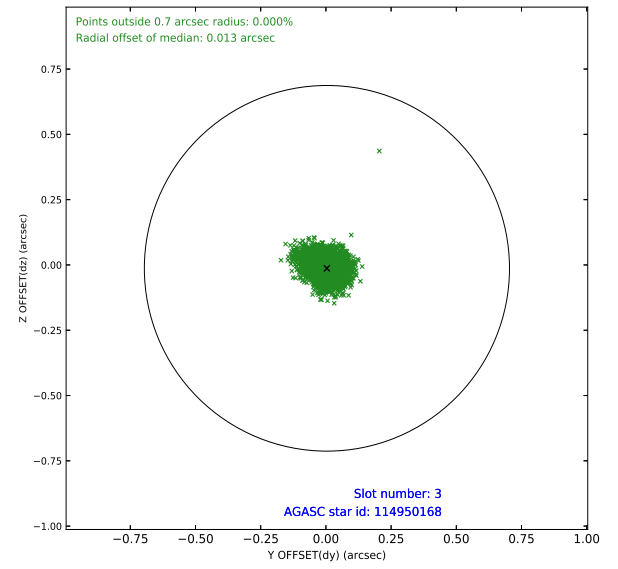
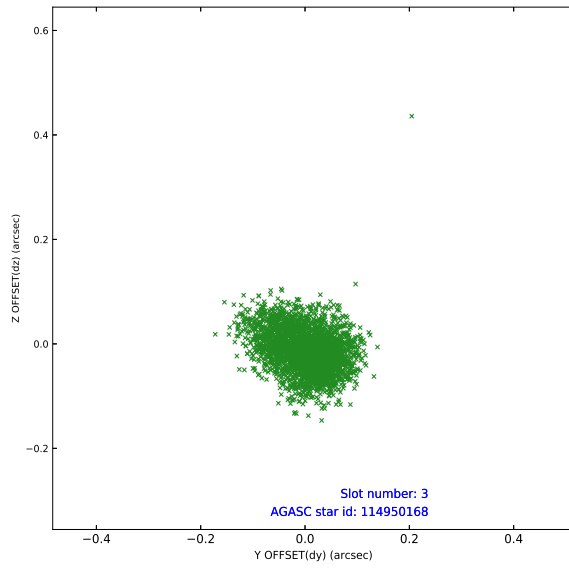


Slot Statistics

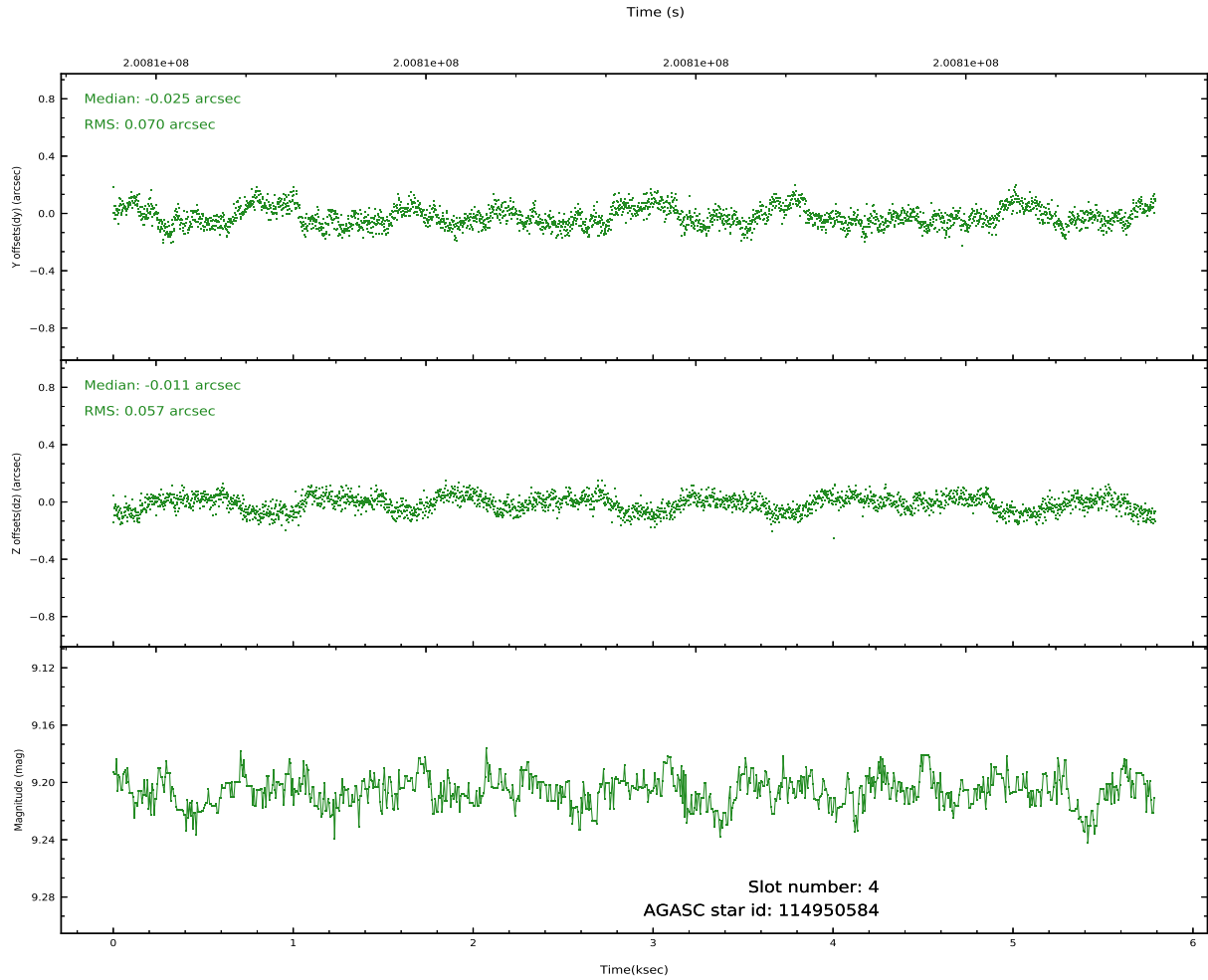
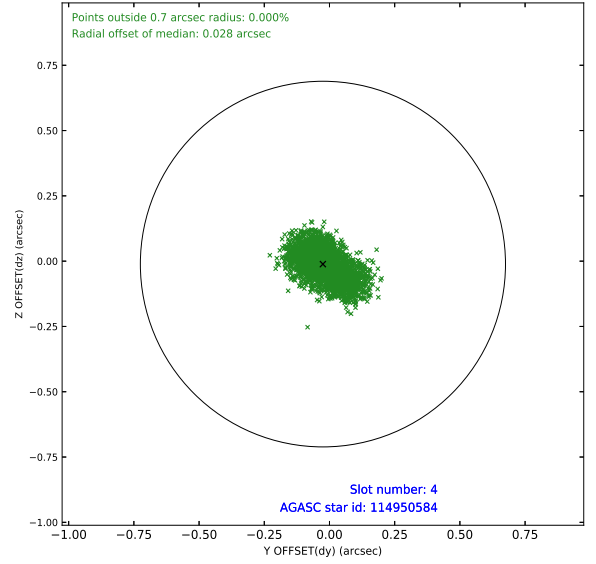
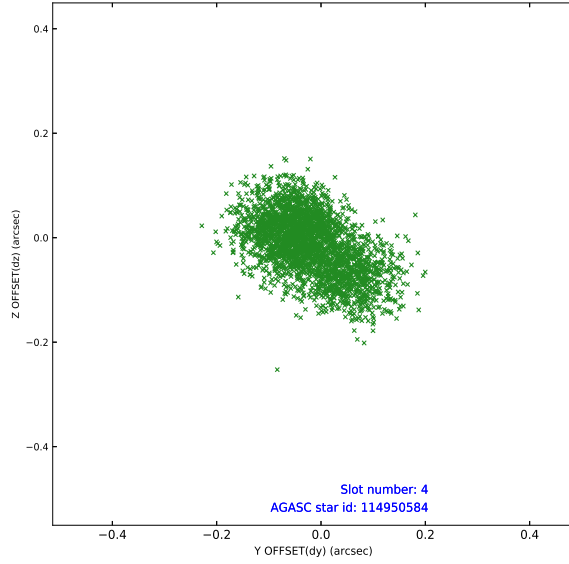
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.10	1413	1.000	-0.071	-0.063	0.007	0.010	0.000000	0.000000	-759.73	-1730
1	FID		ACIS-S-4	7.20	1413	1.000	0.132	0.051	0.006	0.011	0.000000	0.000000	2153.23	176
2	FID		ACIS-S-5	7.23	1413	1.000	-0.092	0.021	0.006	0.012	0.000000	0.000000	-1811.32	171
3	GUIDE	used	114950168	7.87	2824	1.000	0.004	-0.013	0.068	0.106	187.143398	12.117441	1989.67	-976
4	GUIDE	used	114950584	9.21	2824	1.000	-0.025	-0.011	0.097	0.159	187.487323	11.827248	2138.03	616
5	GUIDE	used	114952824	8.58	2825	1.000	0.017	0.036	0.070	0.115	187.703904	12.486727	-236.75	-143
6	GUIDE	used	114954440	9.19	2825	1.000	0.095	-0.135	0.112	0.174	186.915066	12.219118	2156.93	-1842
7	GUIDE	used	114955056	8.31	2824	1.000	-0.091	0.123	0.063	0.102	187.914001	12.127854	383.82	1208

2.4 Star Slots

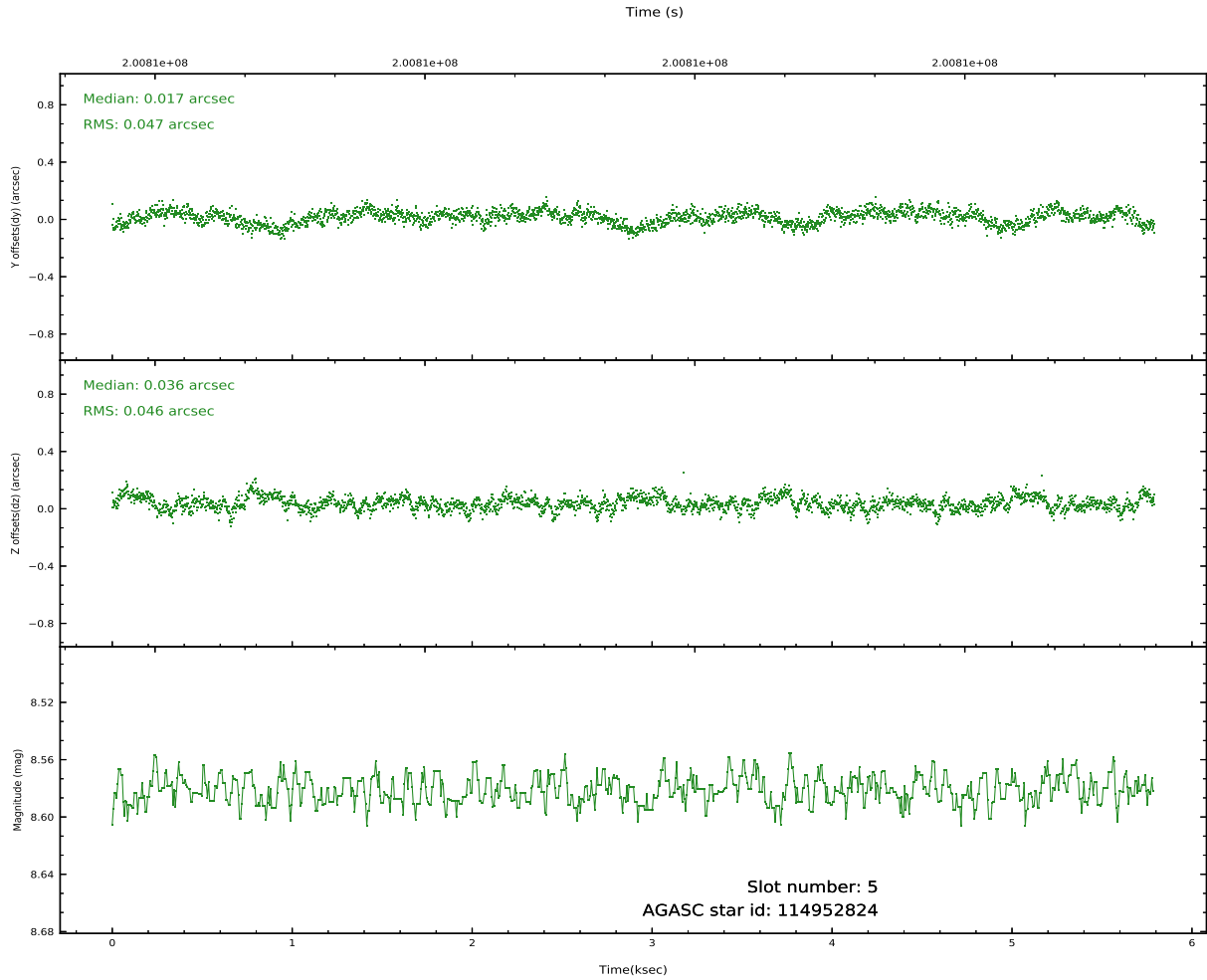
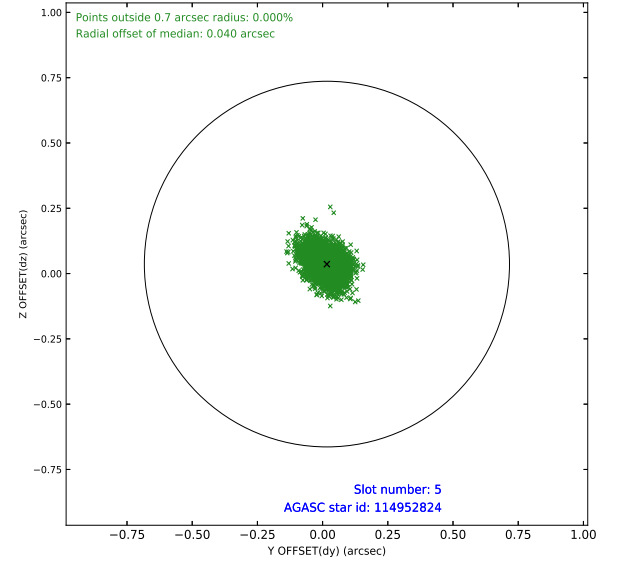
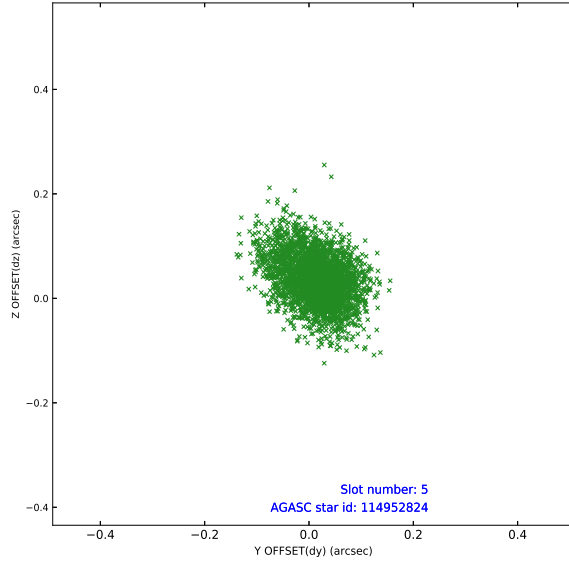
2.4.1 Slot 3



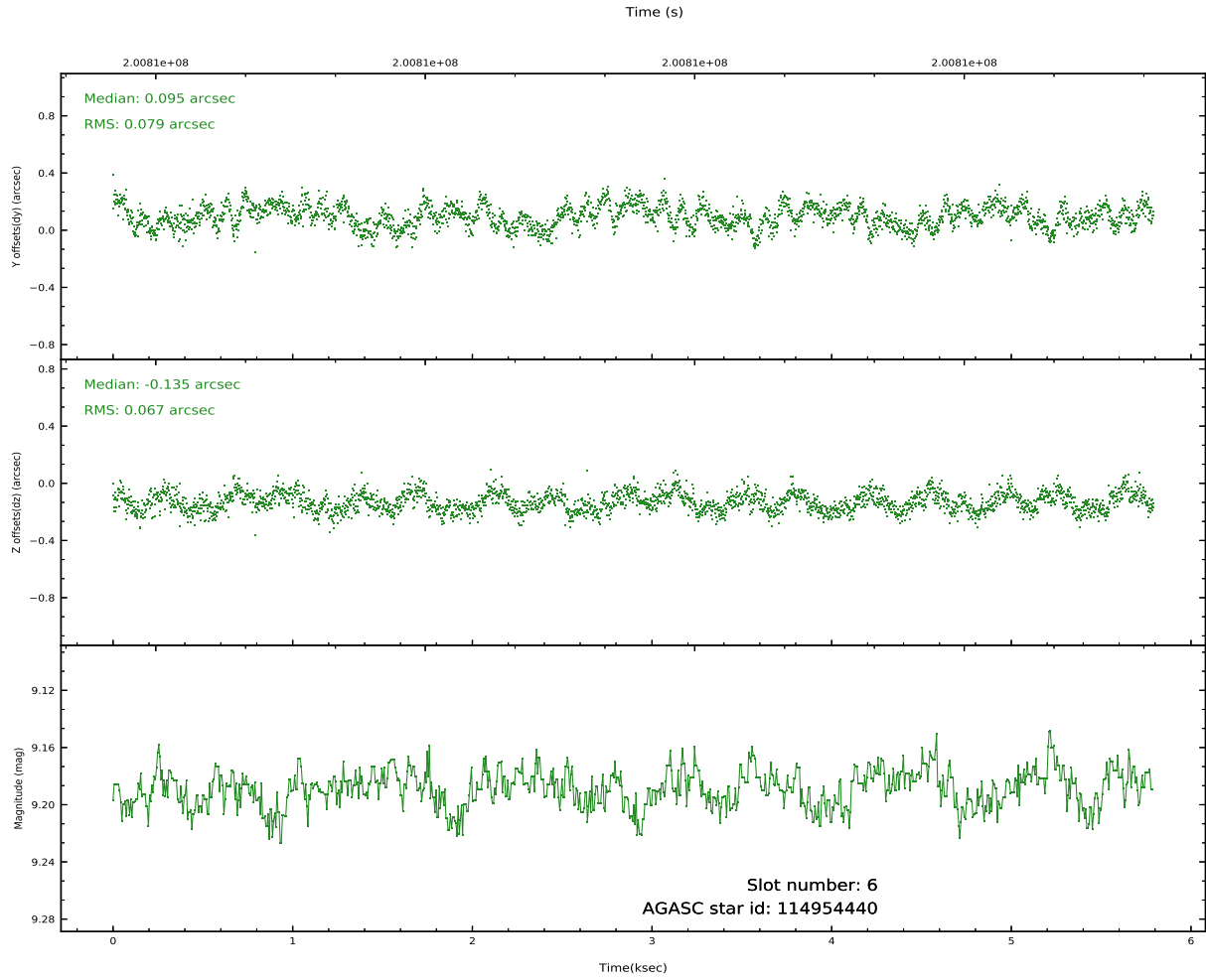
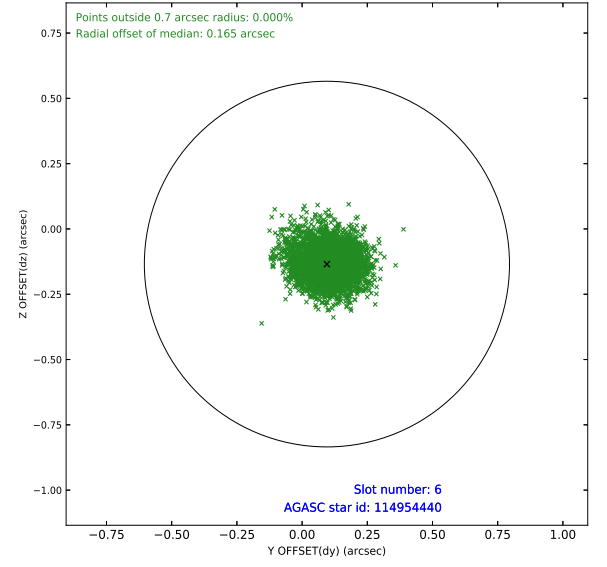
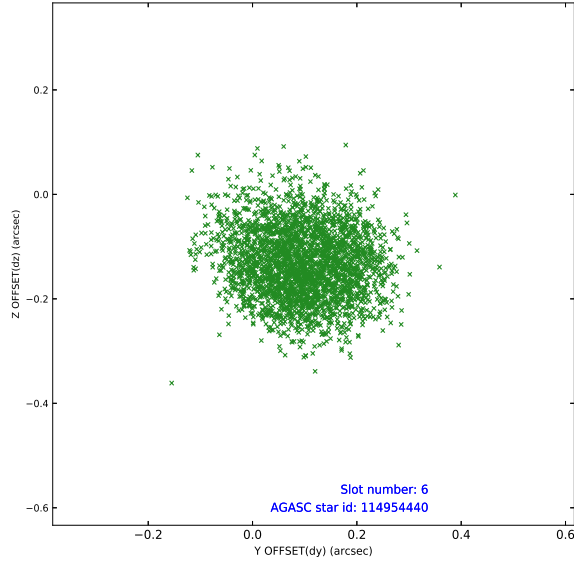
2.4.2 Slot 4



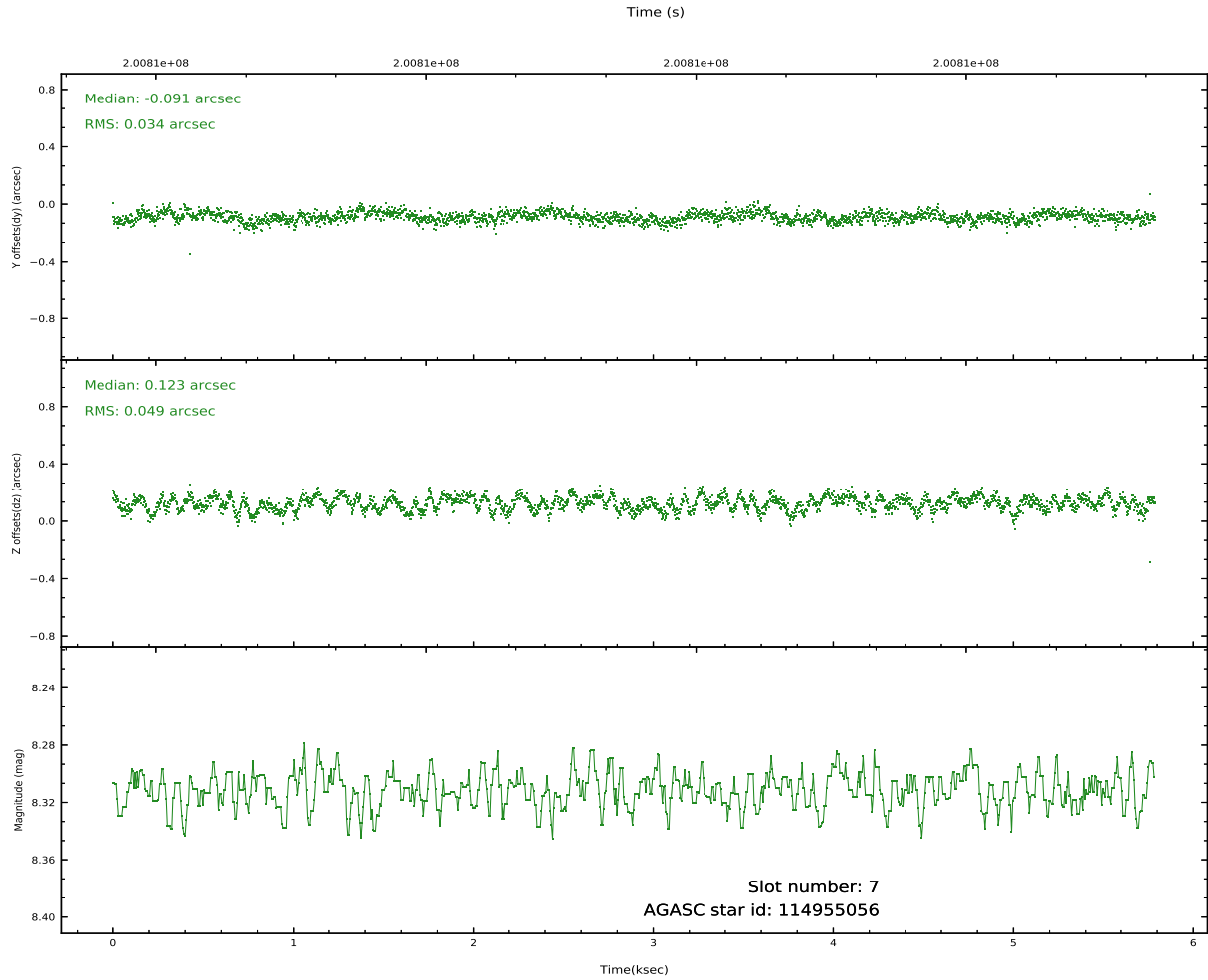
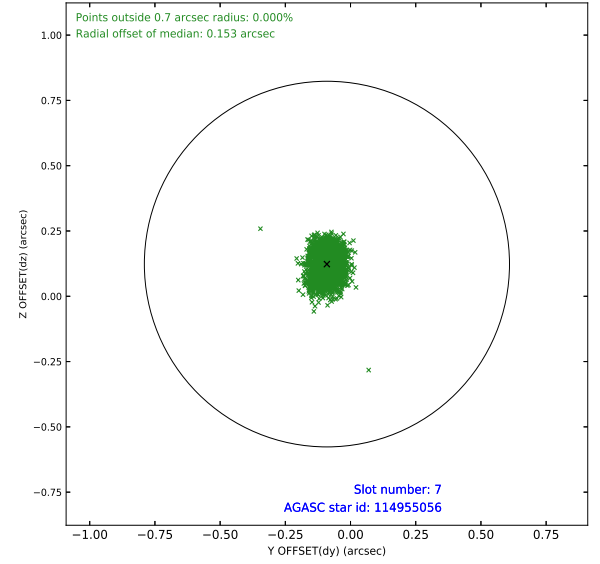
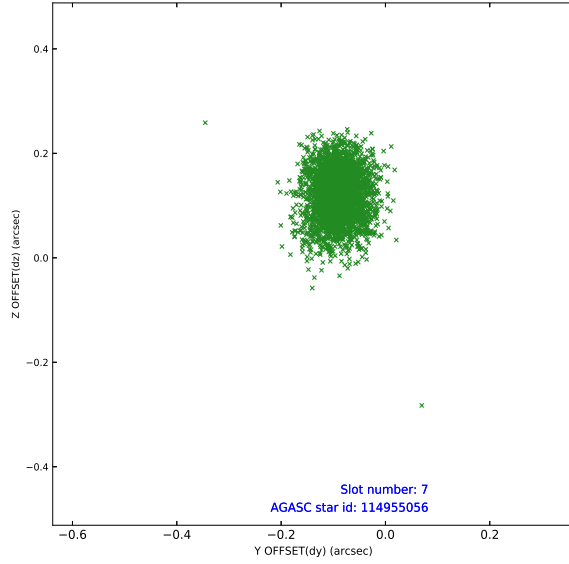
2.4.3 Slot 5



2.4.4 Slot 6

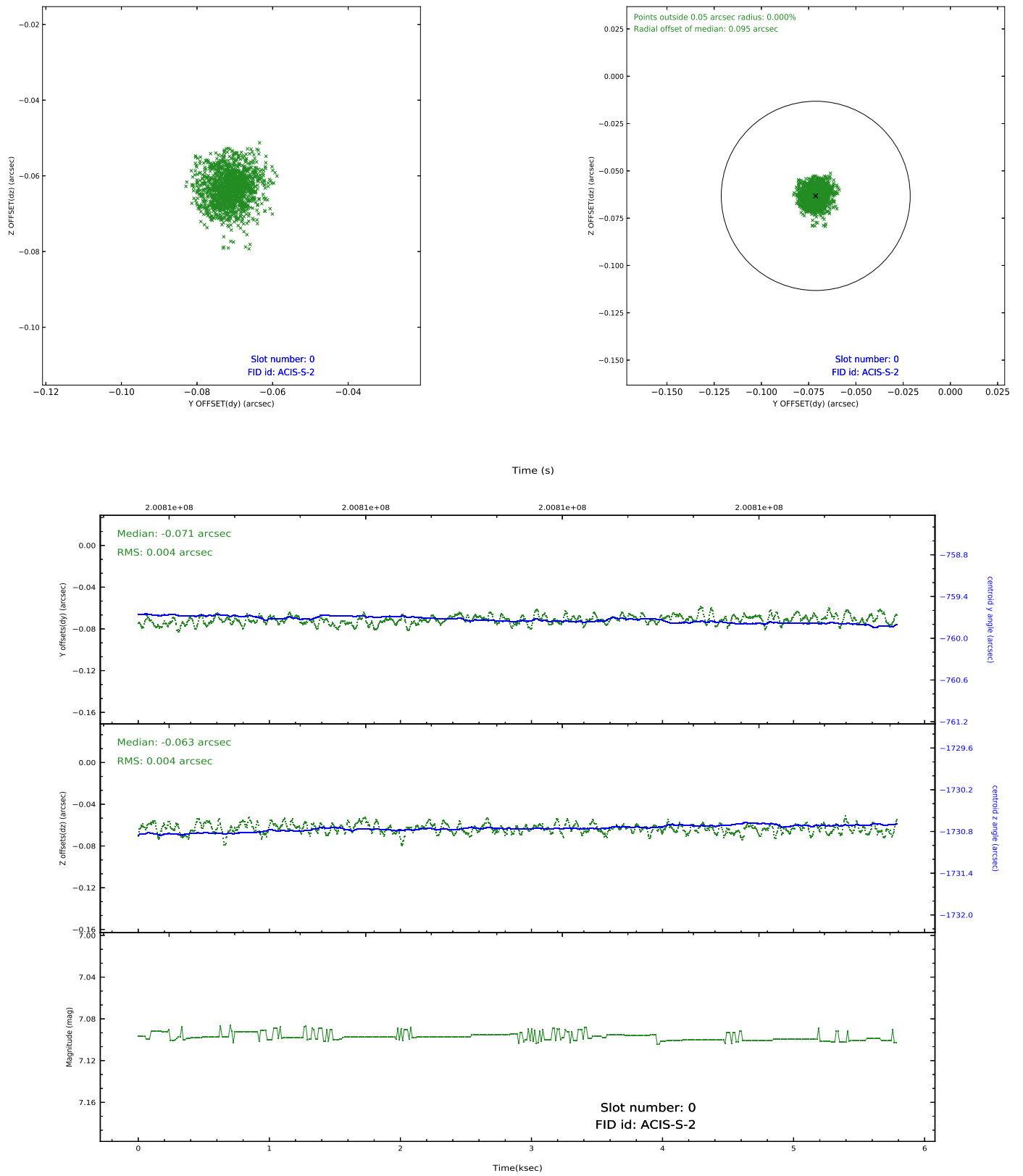


2.4.5 Slot 7

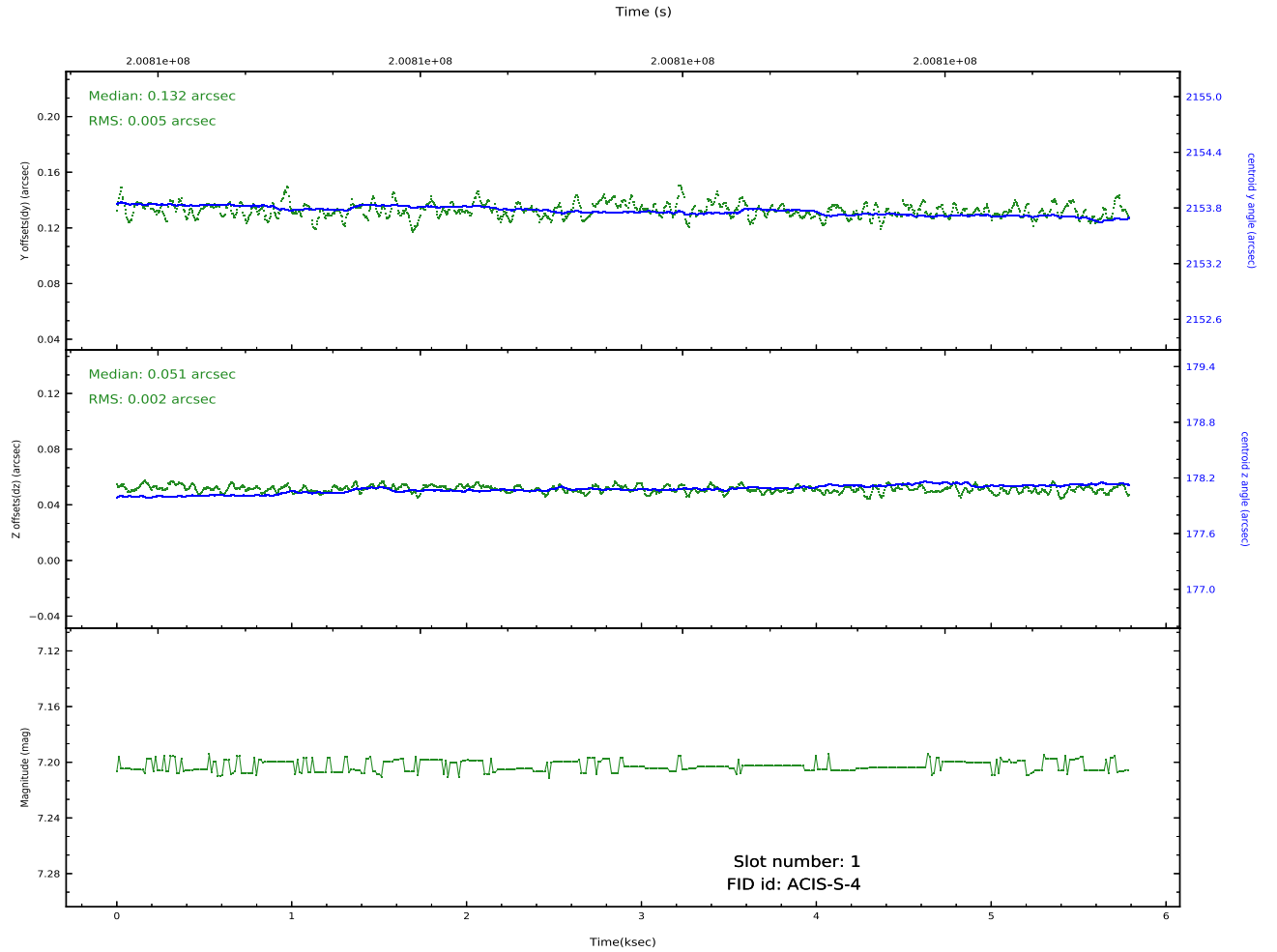
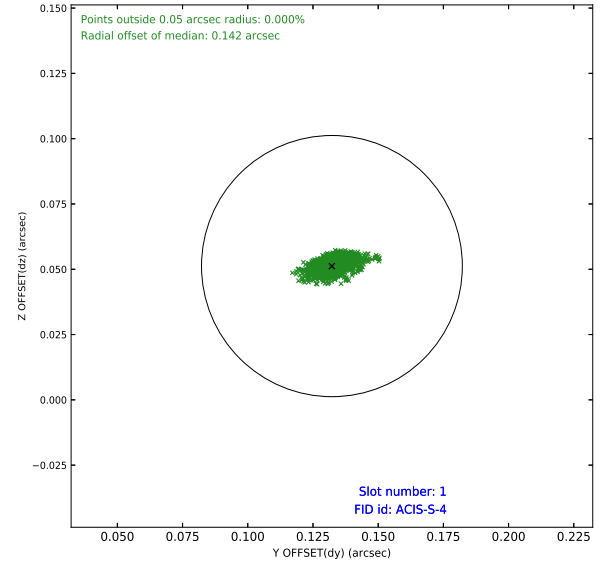
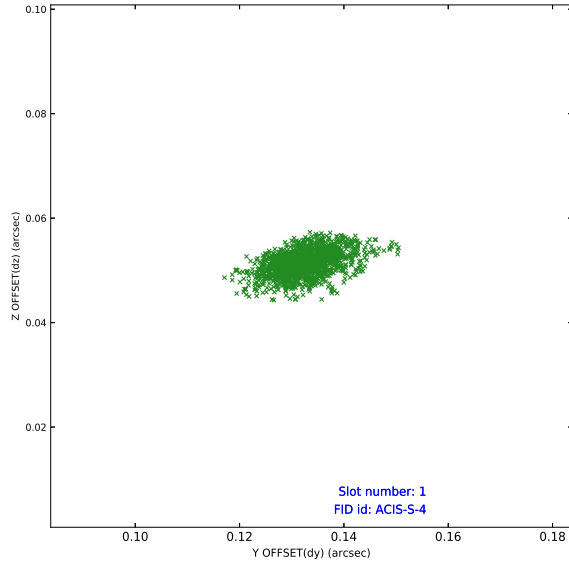


2.5 FID Slots

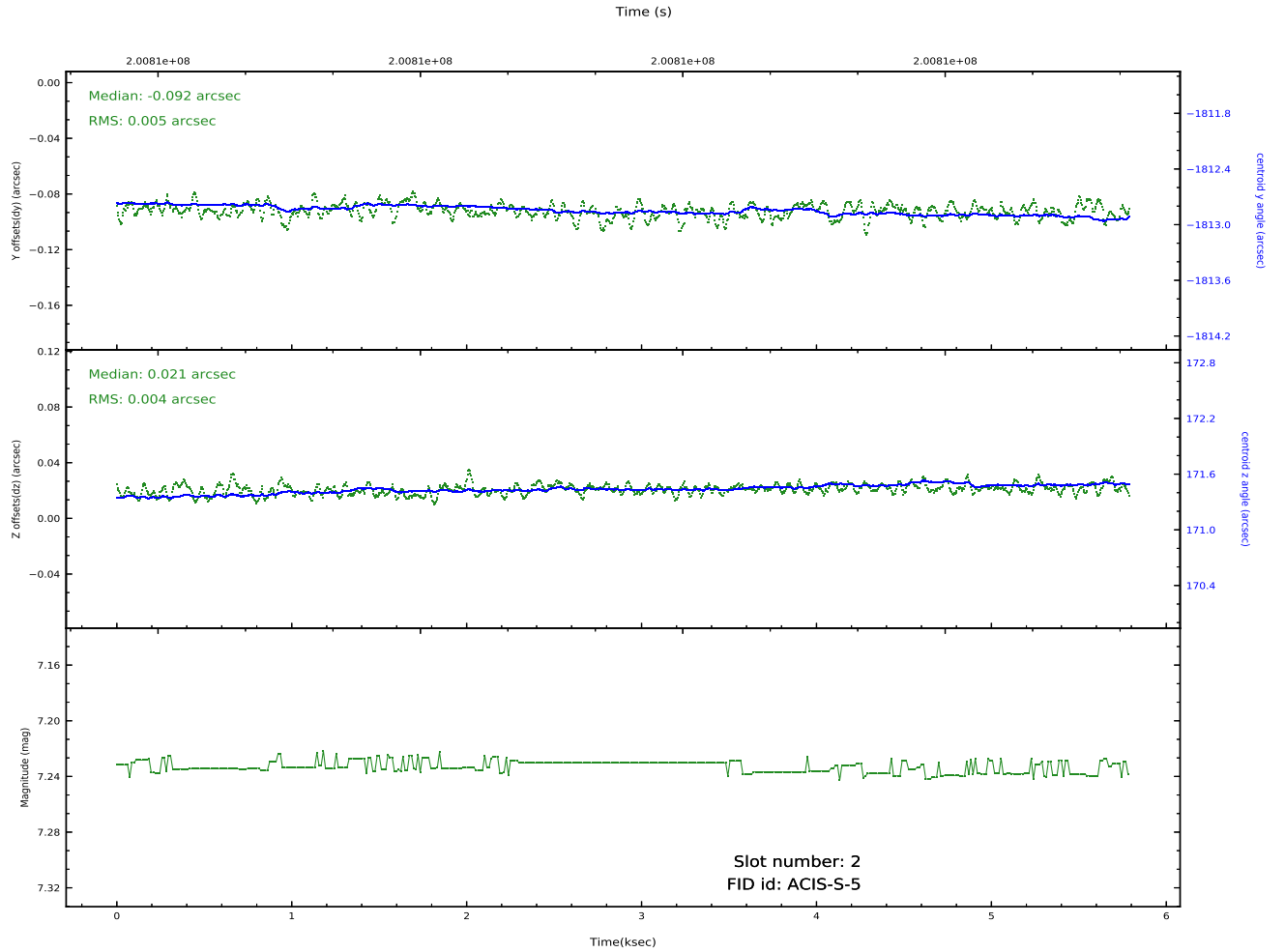
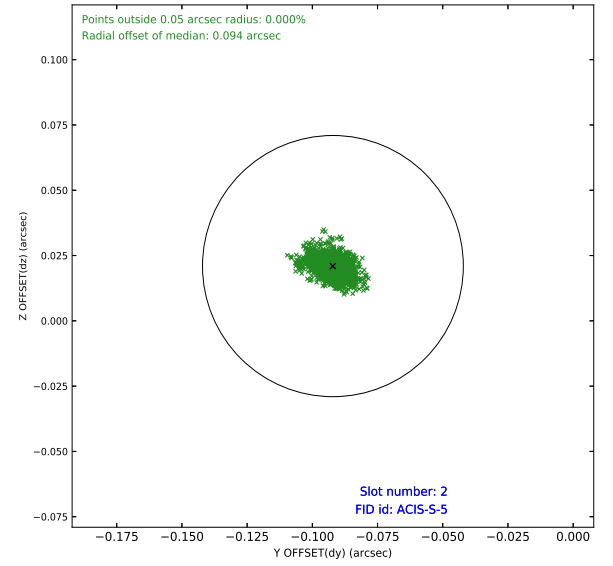
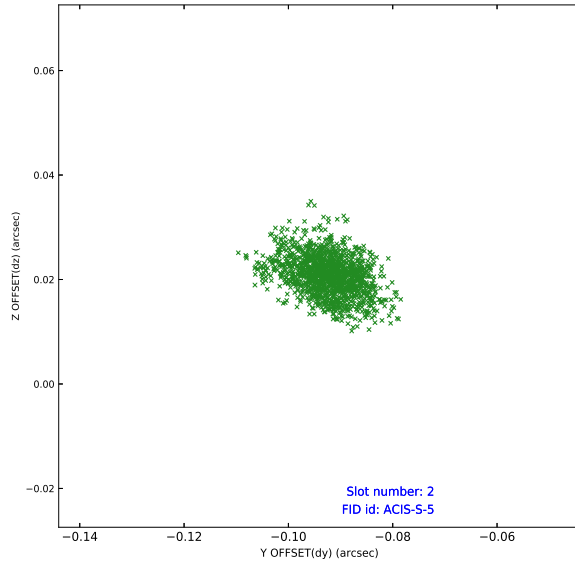
2.5.1 Slot 0



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)	2020.09.25
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.789

A.2 Comments

Joint proposal with HST.