

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5748 - L2 Version 4
Chandra X-Ray Center

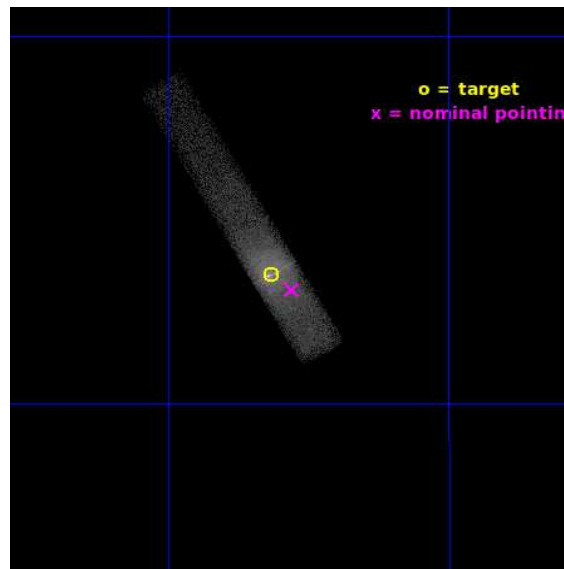
L2 Processing Date : Oct 8 2020

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1 Front

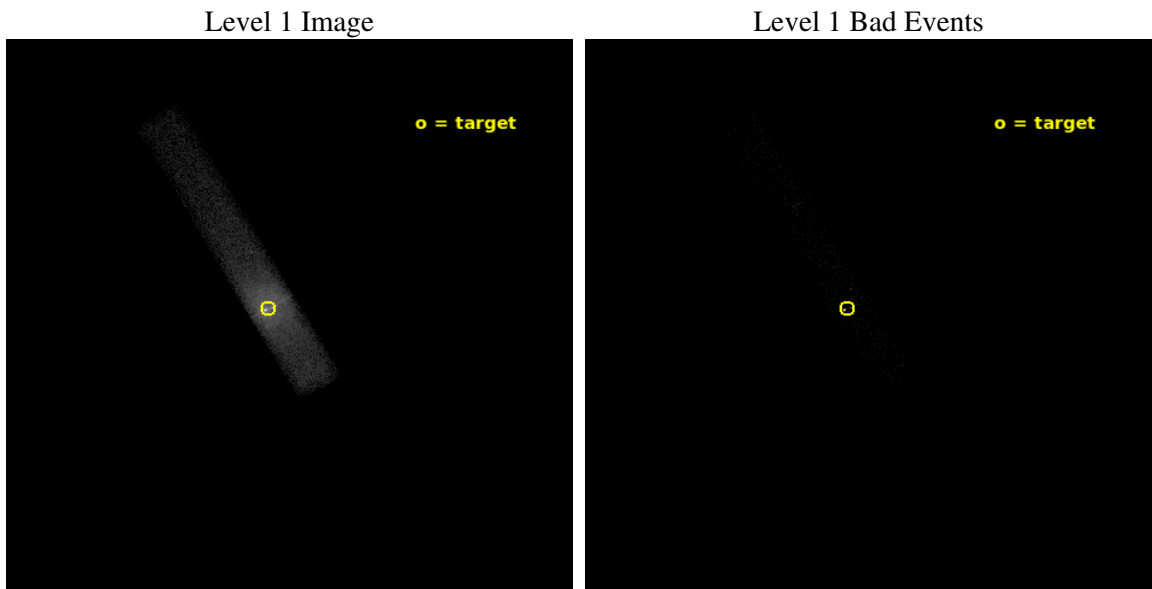
seq_num	701170	Sequence number
obs_id	5748	Observation id
title	The X-ray Flares of Knot 'HST-1' in the M87 Jet (monitoring)	Pro
observer	Dr. John Biretta	Principal investigator
object	M87	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	187.704167	Observer's specified target RA [deg]
dec_targ	12.391667	Observer's specified target Dec [deg]
ra_nom	187.69492027438	Nominal RA [deg]
dec_nom	12.384901582962	Nominal Dec [deg]
roll_nom	240.03335761441	Nominal Roll [deg]
revision	4	Processing version of data
ontime	5181.6000771821	Sum of GTIs [s]
livetime	4699.4377627263	Livetime [s]
ontime7	5181.6000771821	Sum of GTIs [s]
l2events	58799	Number of level 2 events



2 OBI

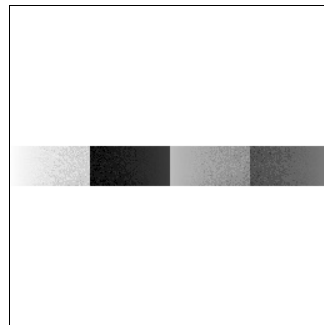
2.1 OBI

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	5181.6000771821	Sum of GTIs [s]
caldsver	4.9.2	 	ontime7	5181.6000771821	Sum of GTIs [s]
date	2020-10-08T13:58:17	Date and time of file creation	l1events	73786	Number of level 1 events
revision	4	Processing version of data			

2.1.4 Events

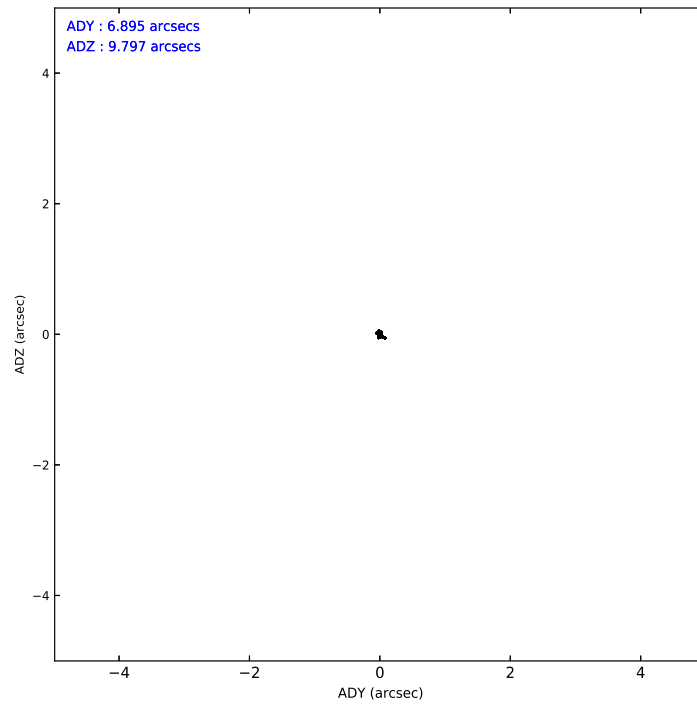
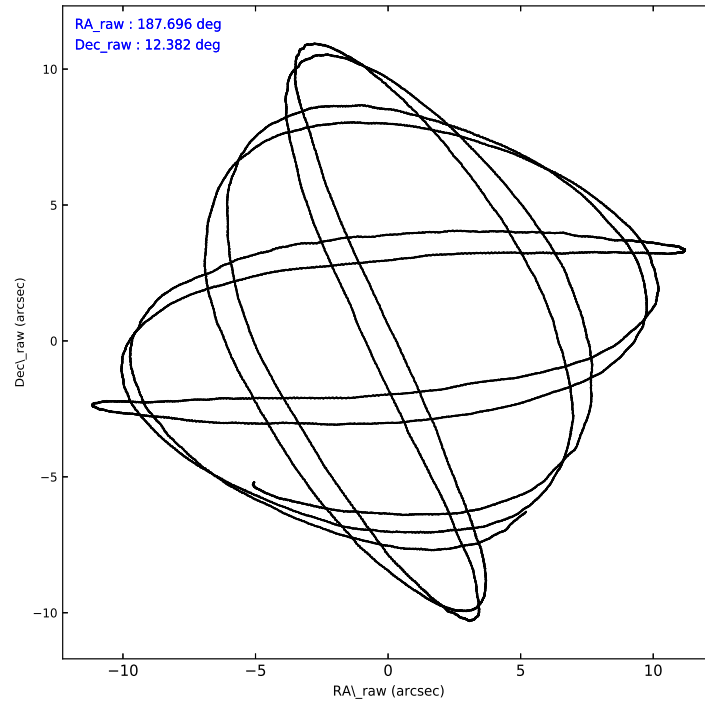
	ccd 7
level 1 events	73786
rejected events	14407
rejected %	19%

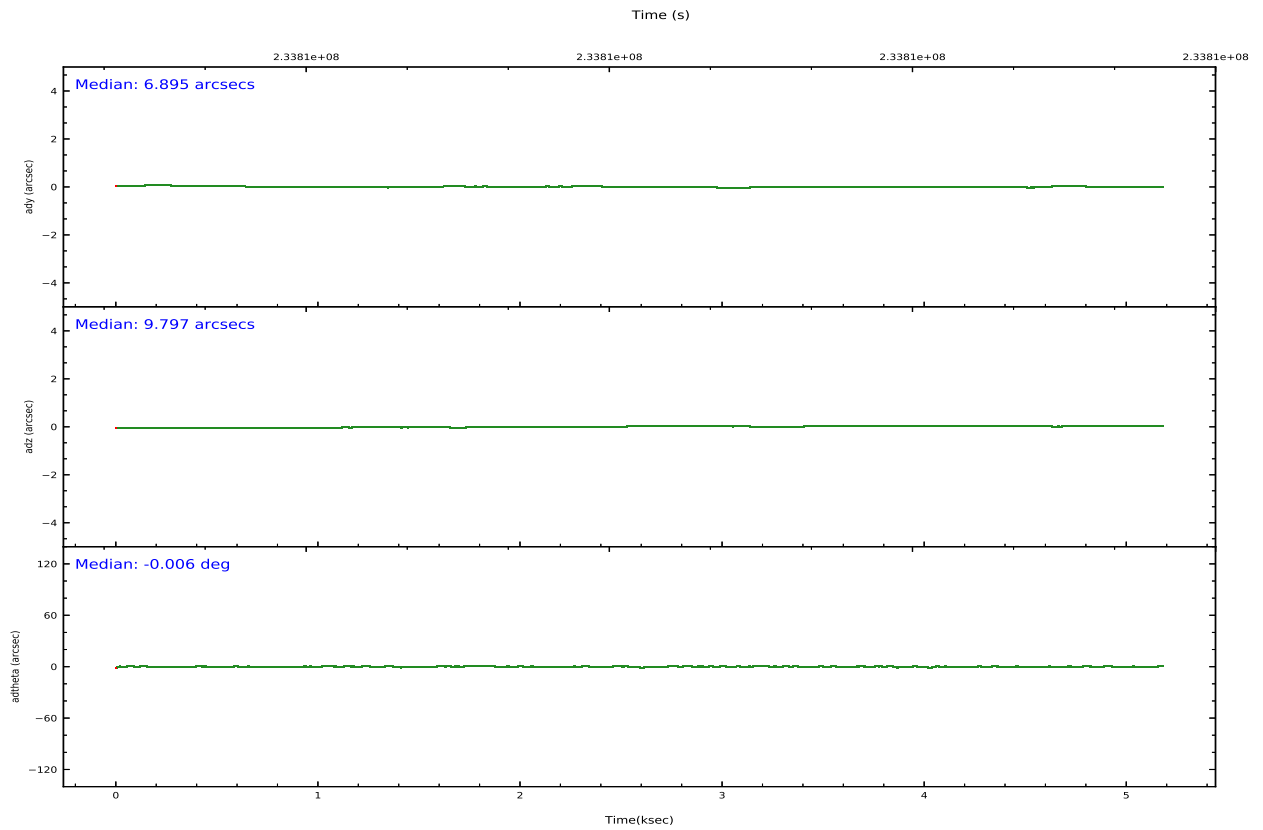
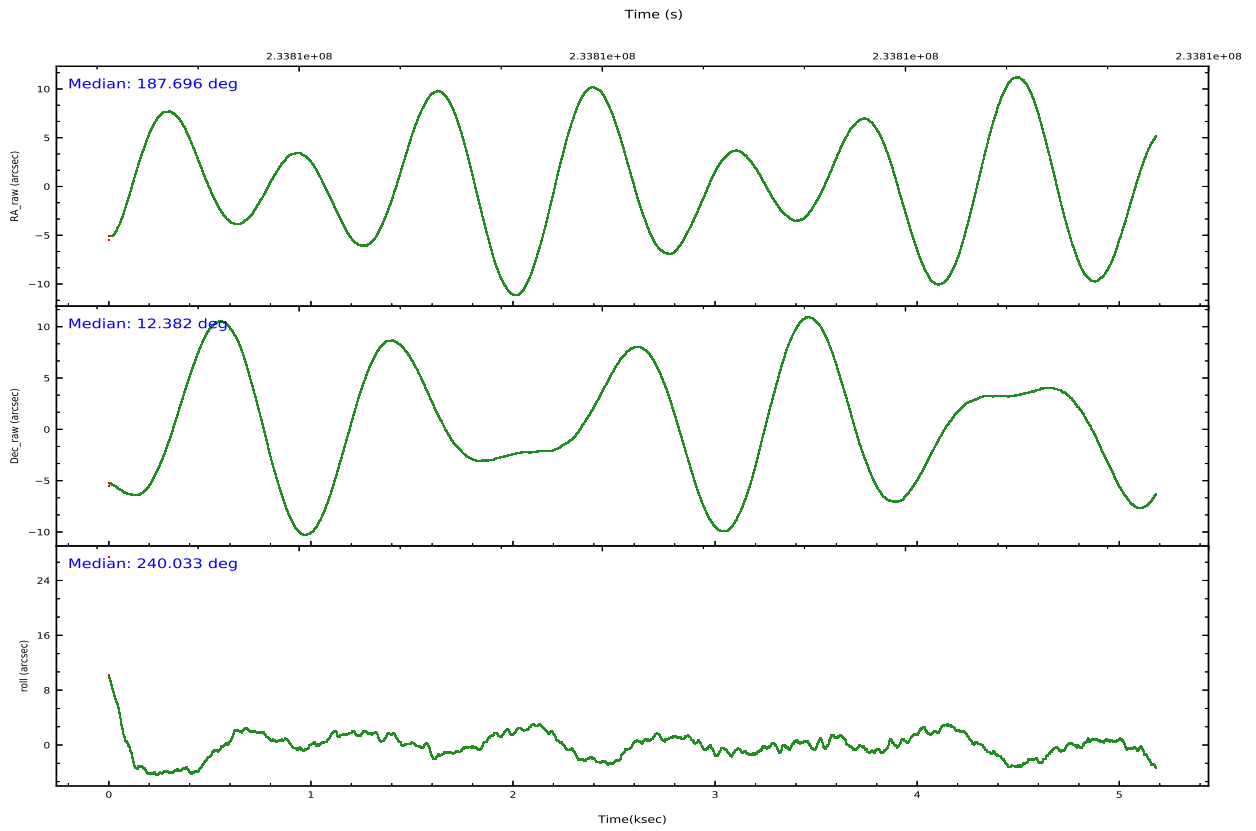
	ccd 7
grade 0 events	18259
	24%
grade 1 events	439
	0%
grade 2 events	15134
	20%
grade 3 events	6962
	9%
grade 4 events	6718
	9%
grade 5 events	2875
	3%
grade 6 events	13839
	18%
grade 7 events	9560
	12%

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	187.695944	187.69492027438	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	12.409052	12.384901582962	Subarray start row	449	449
[deg] Pointing Roll	239.877852	240.03335761441	Subarray row count	128	128
[s] Window start time (MET)	233193664.184000	233193664.184000	Alternating exposures requested	N	N
[s] Window stop time (MET)	233798464.184000	233798464.184000	[s] Primary exposure time	0.000000	0.4
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	233808241.184000	233807478.84615			
Observation start date	2005-05-30T02:42:57	2005-05-30T02:31:18			
[s] Observation end time (MET)	233813241.184000	233814627.19648			
Observation end date	2005-05-30T04:06:17	2005-05-30T04:30:27			
Read mode	TIMED	TIMED			

2.3 Aspect





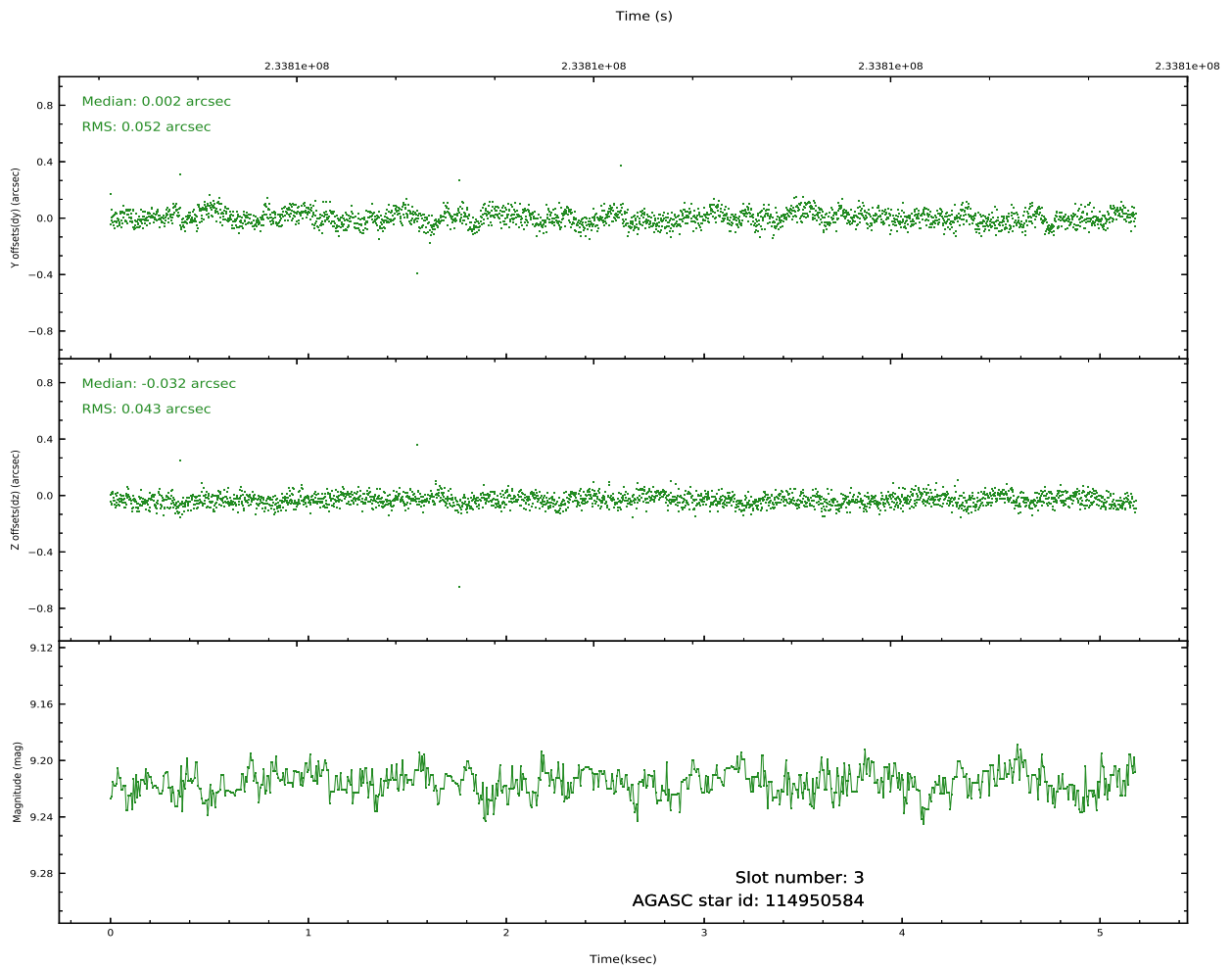
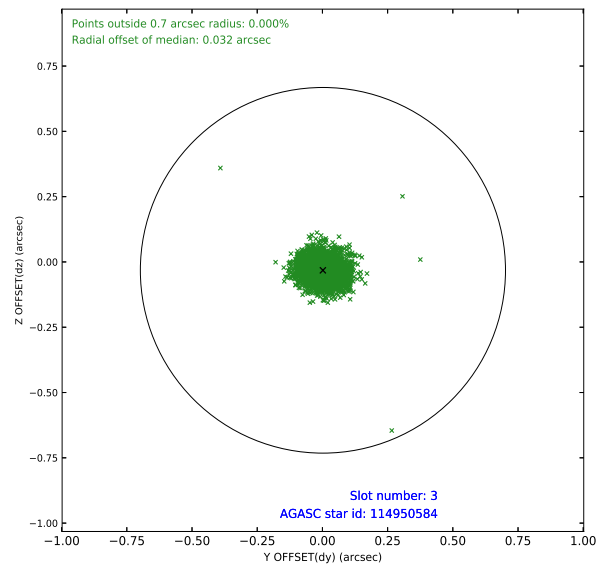
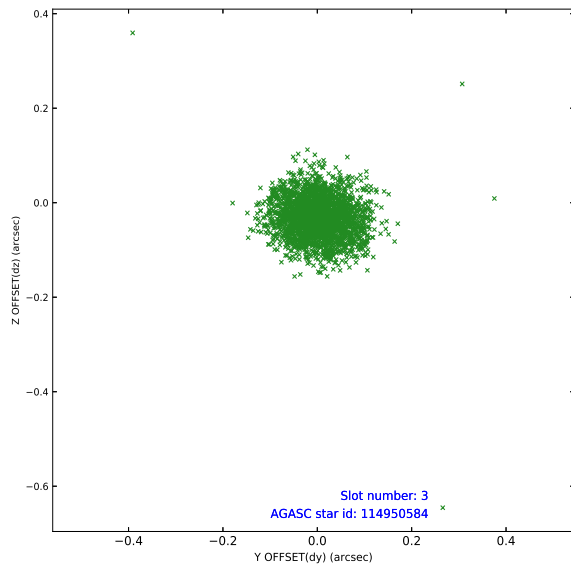
Slot Statistics

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	1264	1.000	-0.088	-0.068	0.007	0.010	0.000000	0.000000	-759.67	-1731
1	FID		ACIS-S-4	7.21	1265	1.000	0.166	0.061	0.005	0.010	0.000000	0.000000	2153.26	176
2	FID		ACIS-S-5	7.23	1264	1.000	-0.109	0.017	0.007	0.010	0.000000	0.000000	-1811.10	171
3	GUIDE	used	114950584	9.22	2529	1.000	0.002	-0.032	0.070	0.111	187.487323	11.827248	2180.44	415
4	GUIDE	used	114952824	8.57	2527	1.000	-0.027	0.097	0.067	0.110	187.703904	12.486727	-254.87	-116
5	GUIDE	used	114955056	8.34	2528	1.000	-0.161	0.145	0.061	0.098	187.914001	12.127854	490.03	1171
6	GUIDE	used	114957008	8.26	2529	1.000	0.173	-0.204	0.072	0.114	186.894794	12.099160	2377.51	-1881
7	GUIDE	used	114950168	7.86	2528	1.000	0.012	-0.004	0.054	0.087	187.143398	12.117441	1883.57	-1156

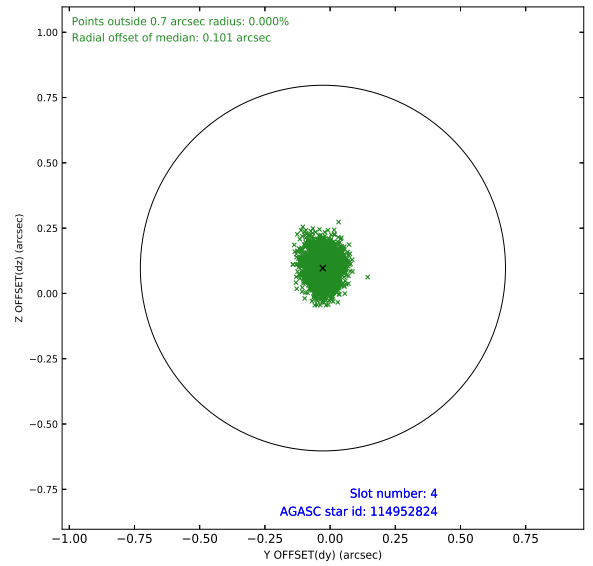
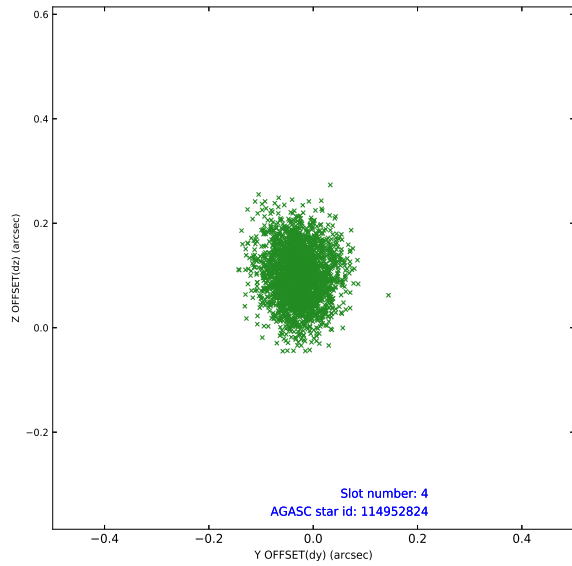
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2.4 Star Slots

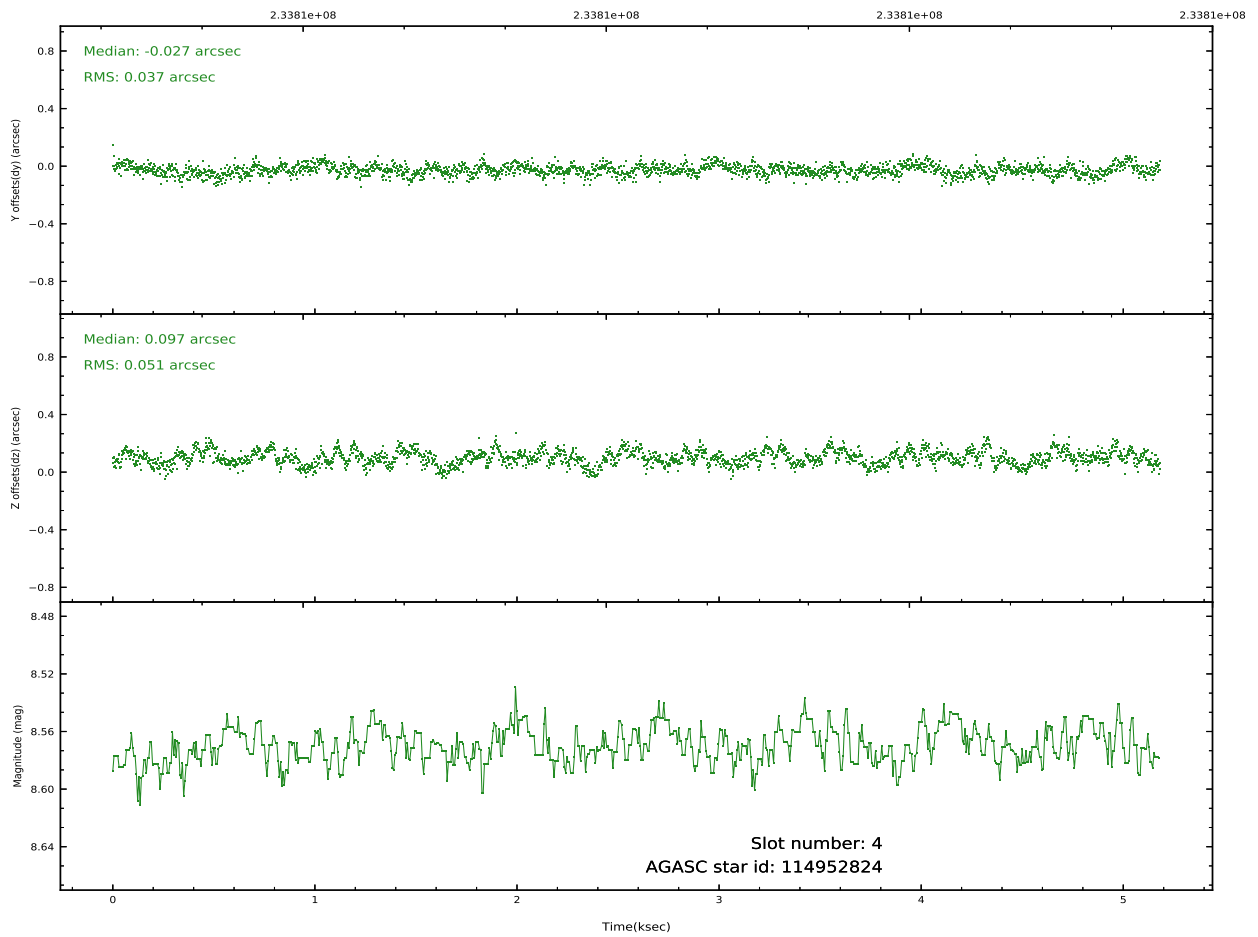
2.4.1 Slot 3



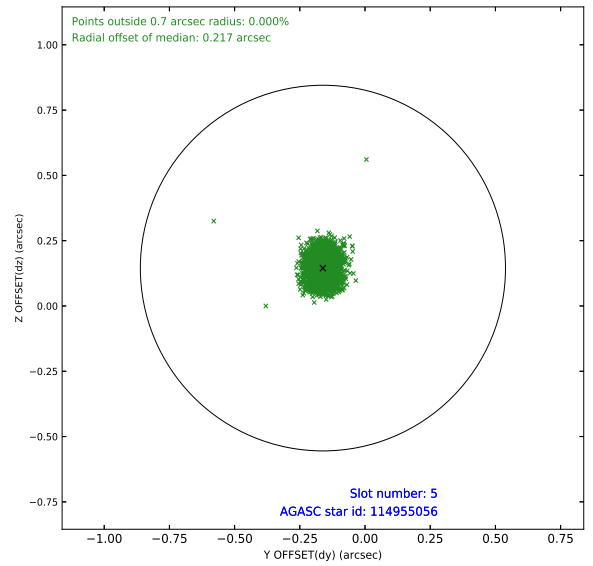
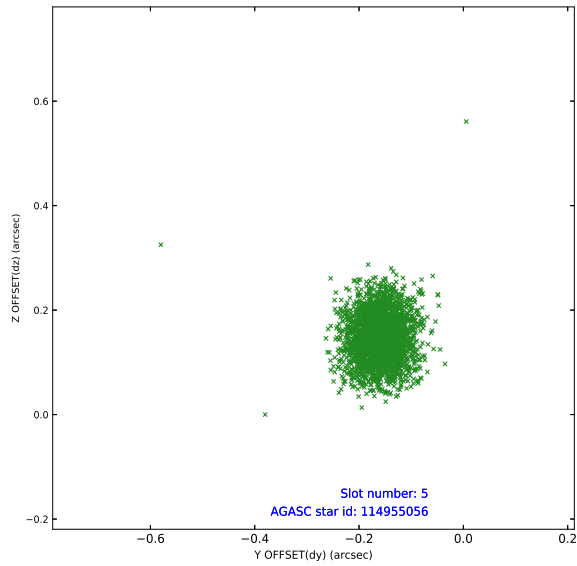
2.4.2 Slot 4



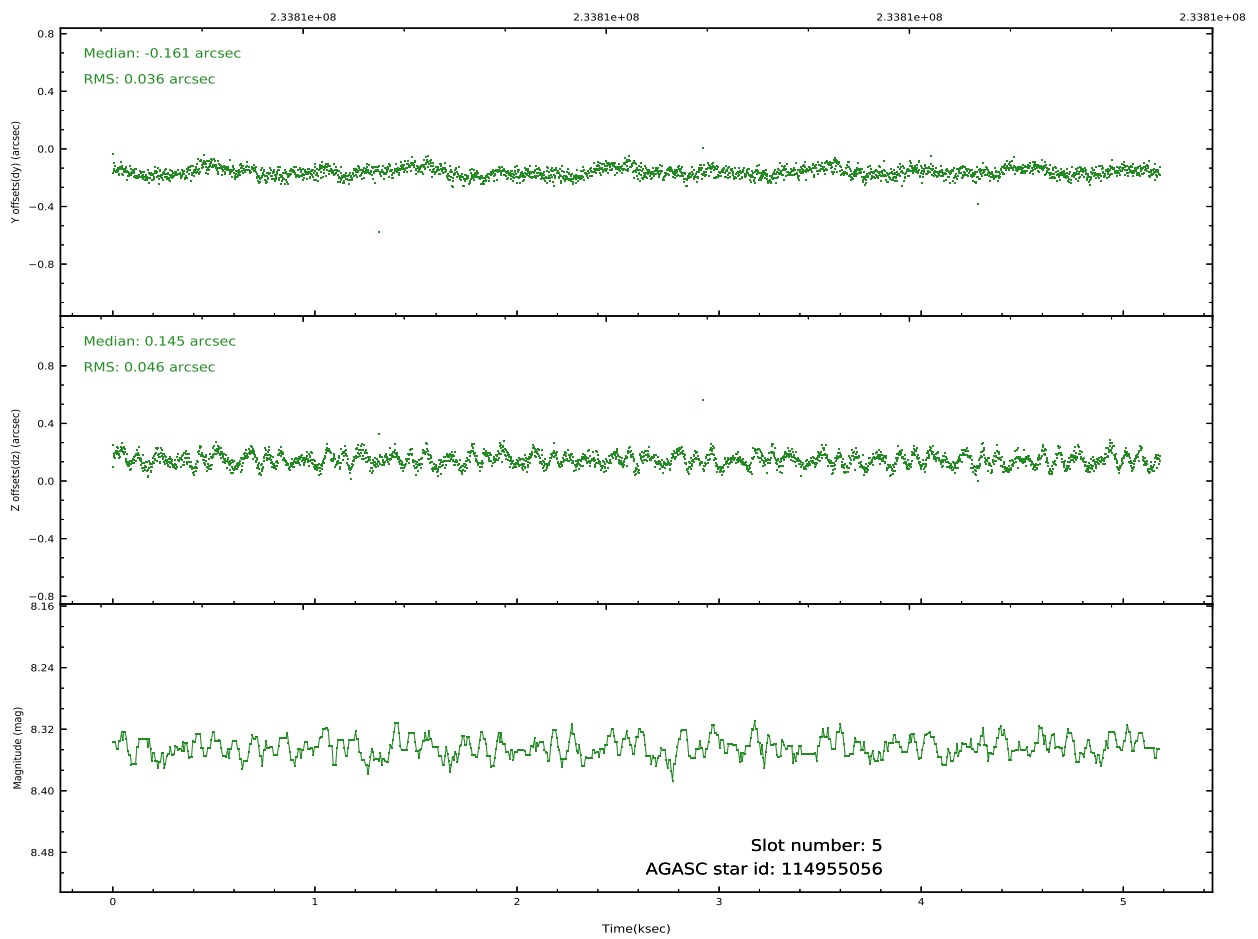
Time (s)



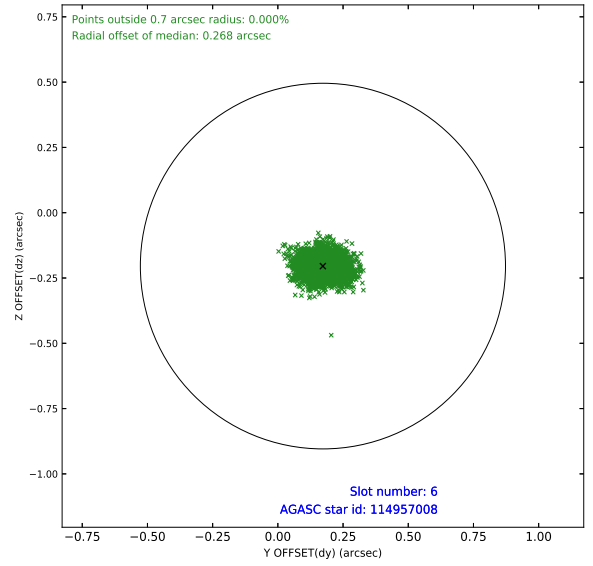
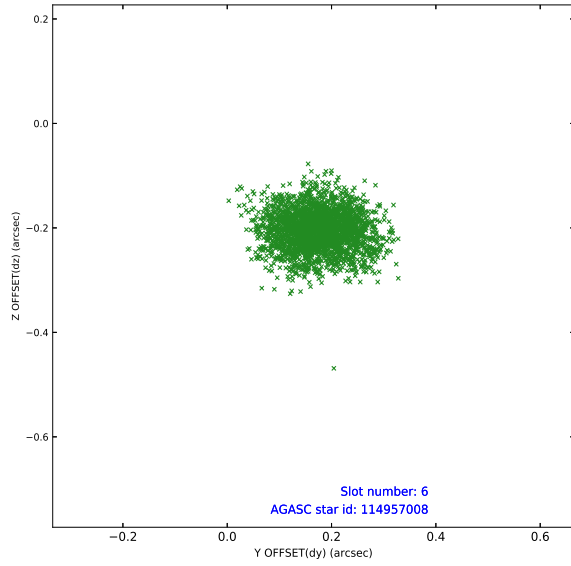
2.4.3 Slot 5



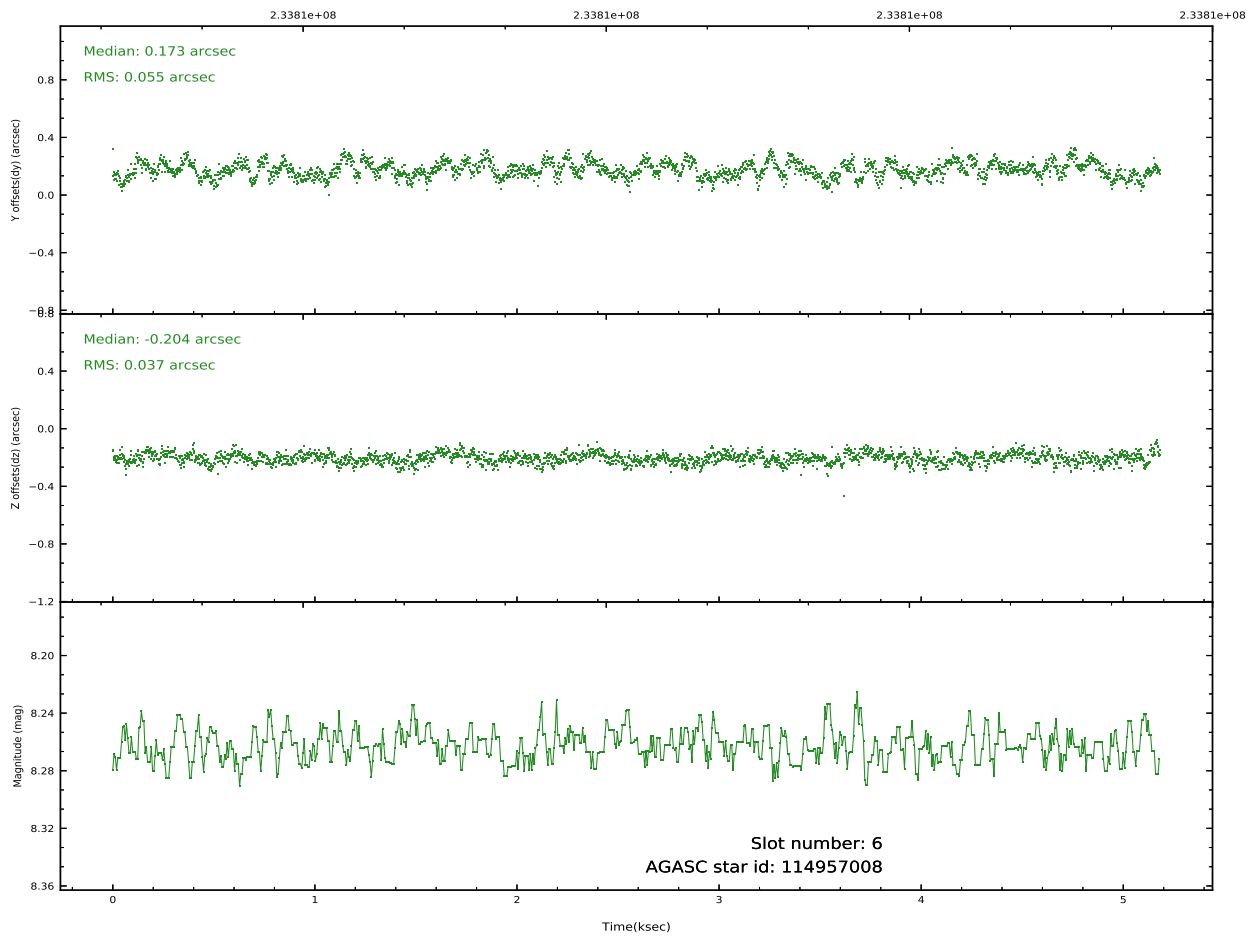
Time (s)



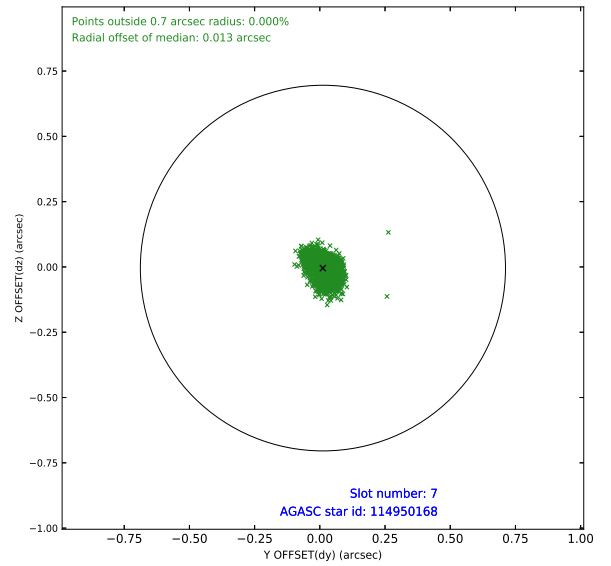
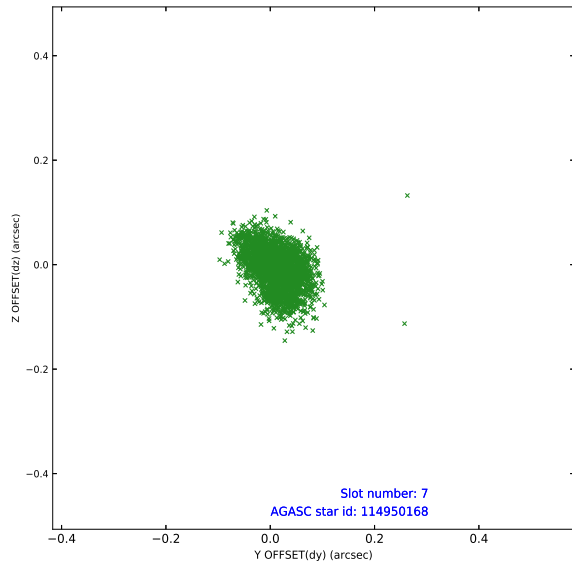
2.4.4 Slot 6



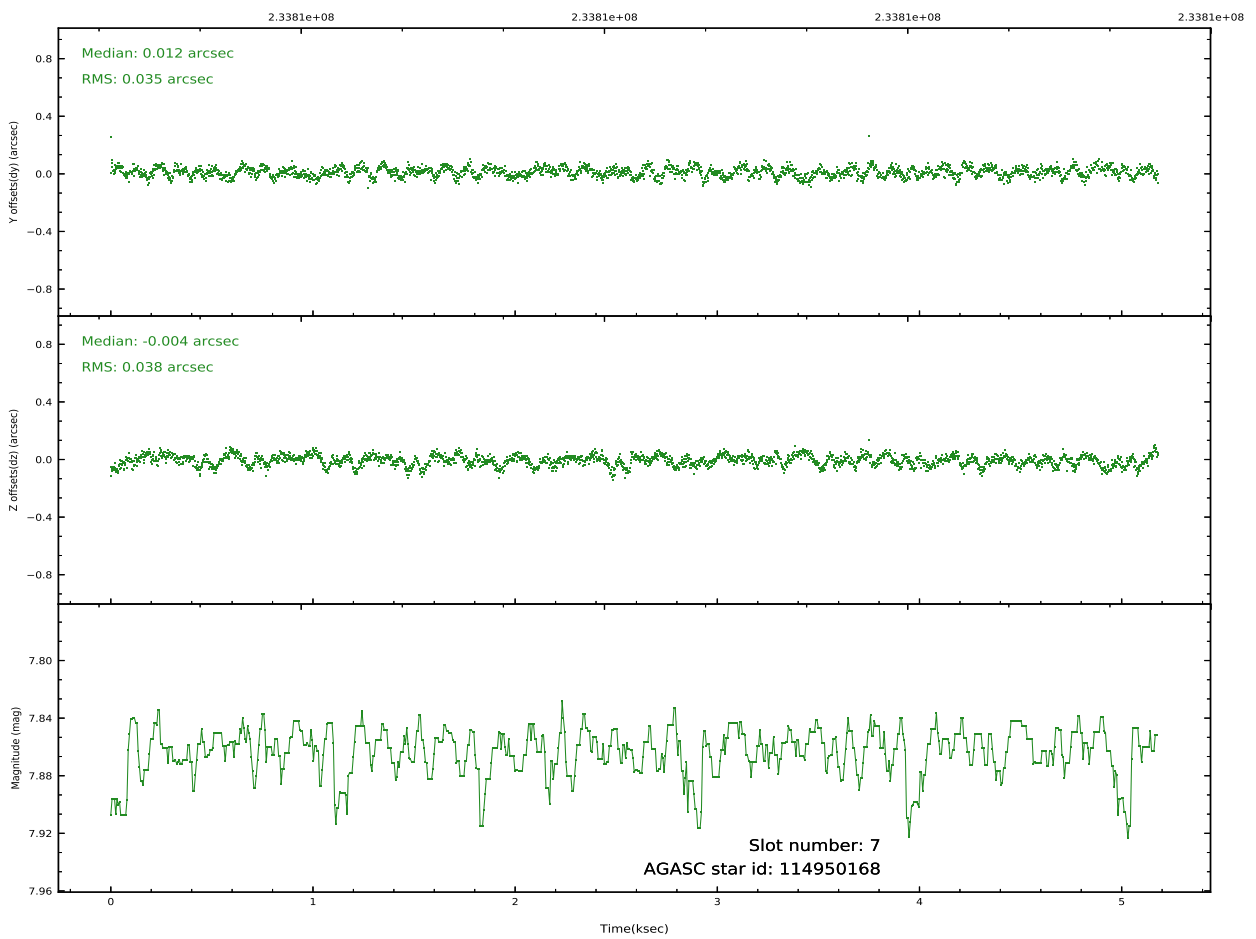
Time (s)



2.4.5 Slot 7

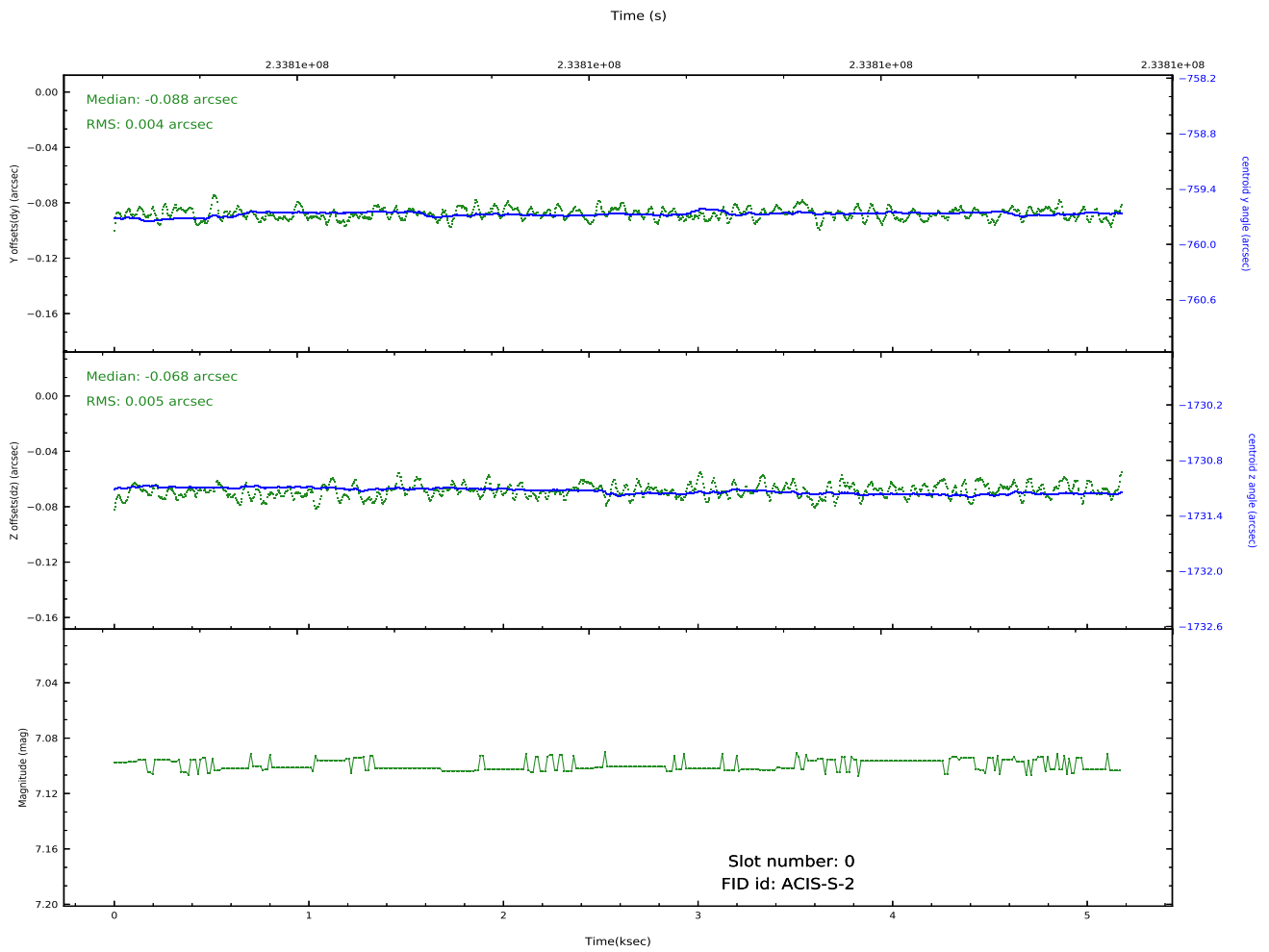
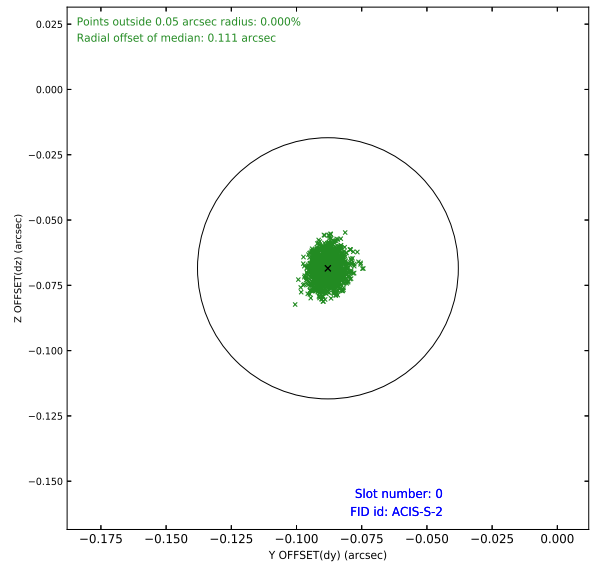
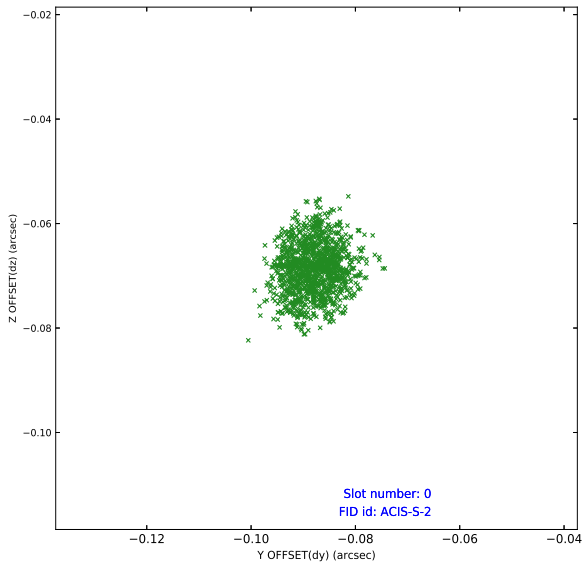


Time (s)

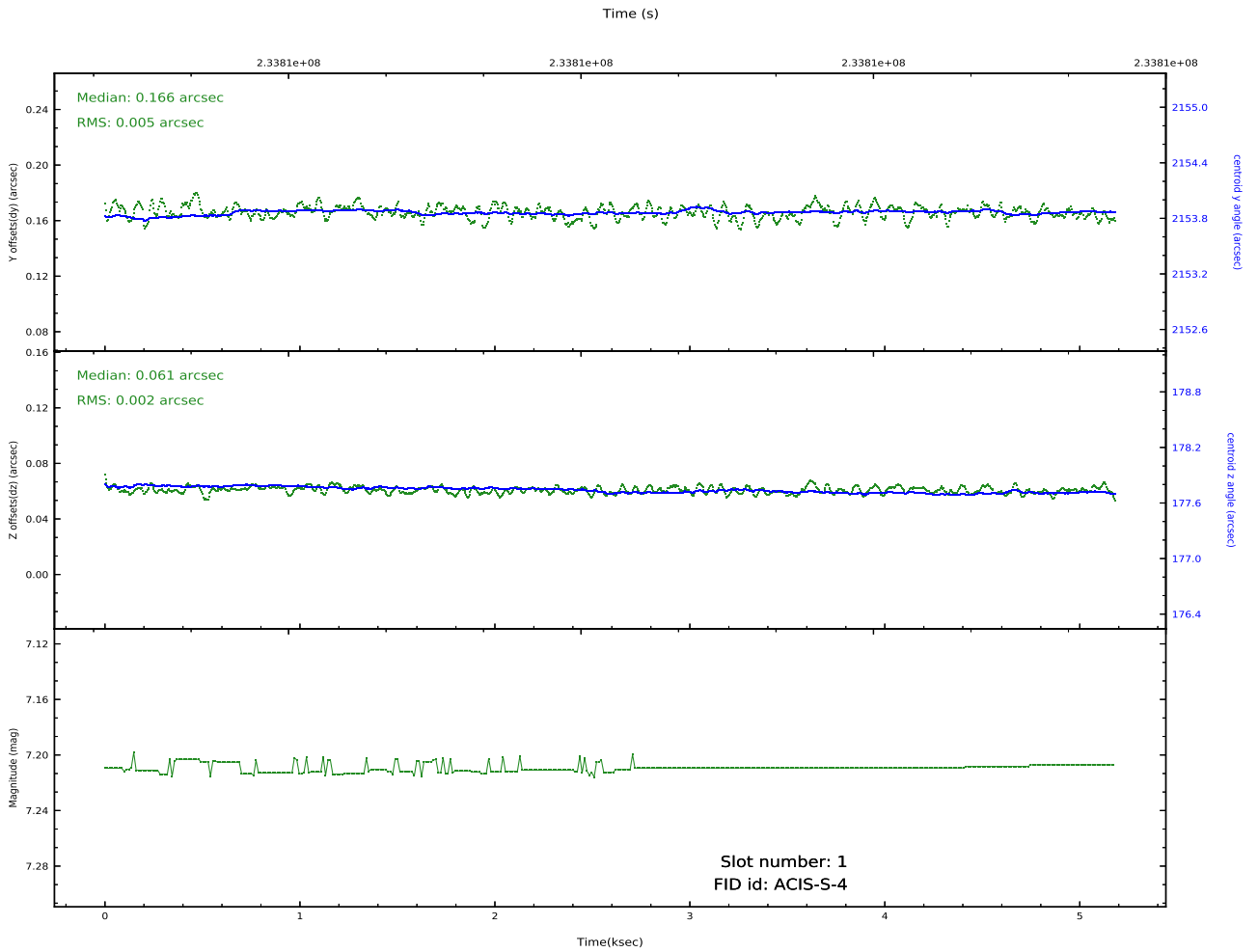
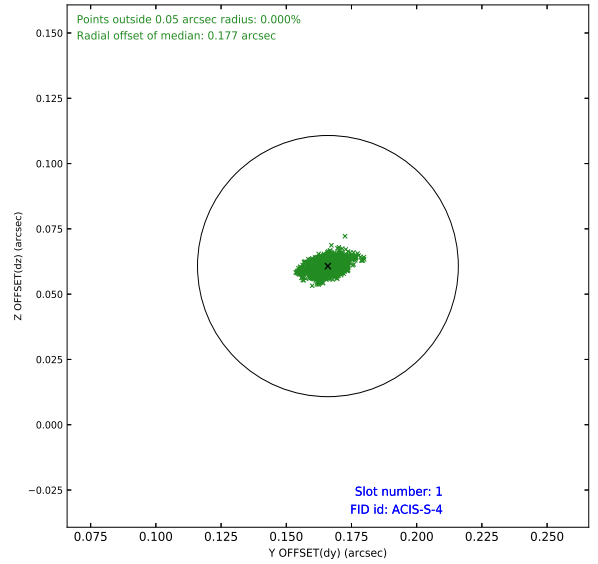
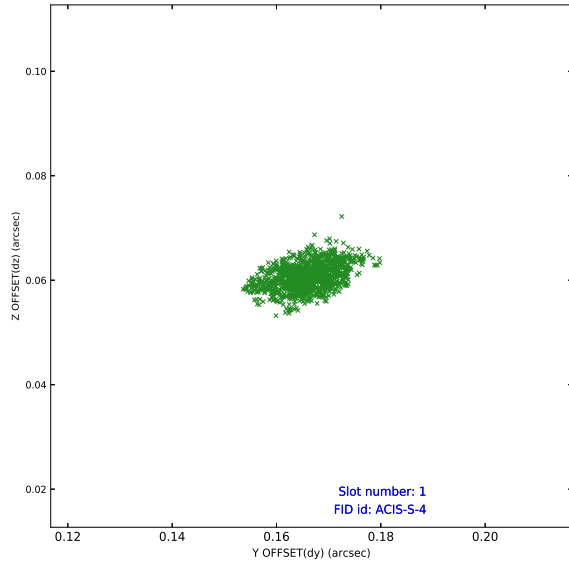


2.5 FID Slots

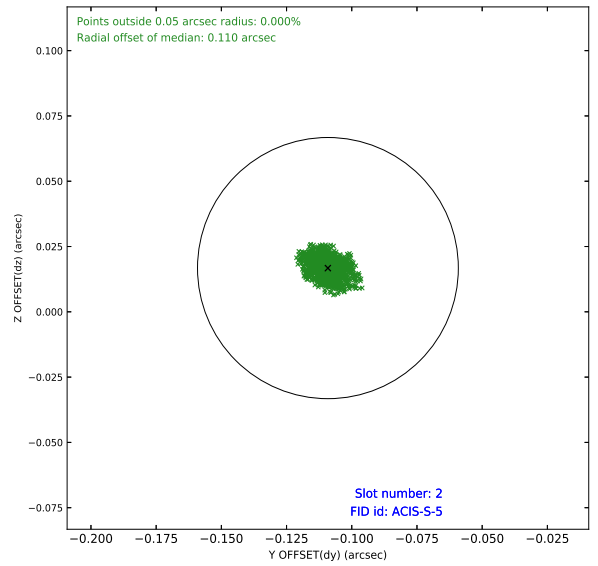
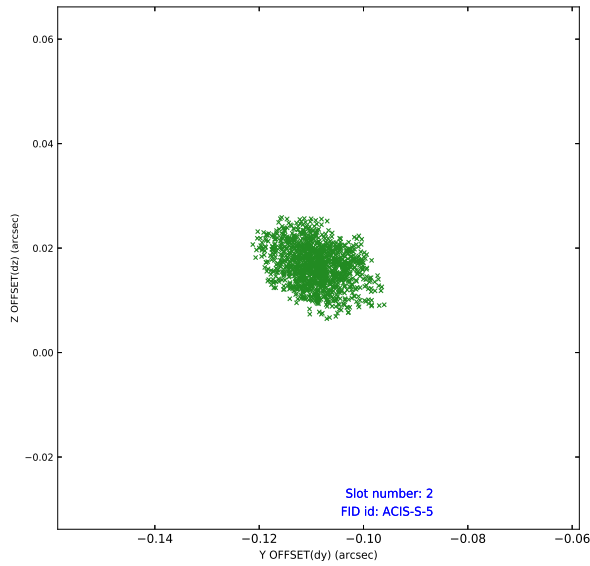
2.5.1 Slot 0



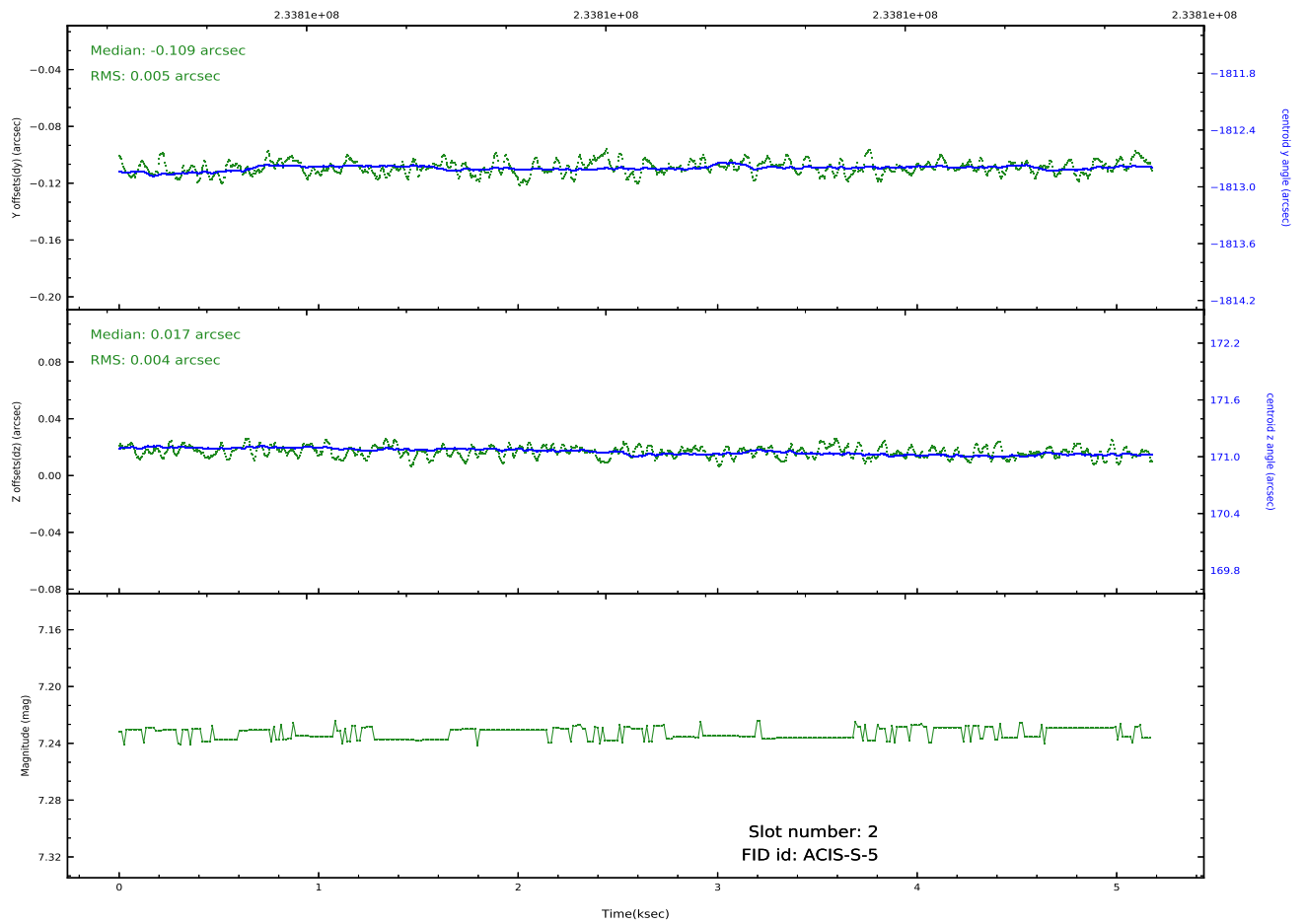
2.5.2 Slot 1



2.5.3 Slot 2



Time (s)



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2020.10.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.1816

A.2 Comments

Window constraint not met. Joint Proposal: CX0-HST