

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 6017 - L2 Version 4
Chandra X-Ray Center

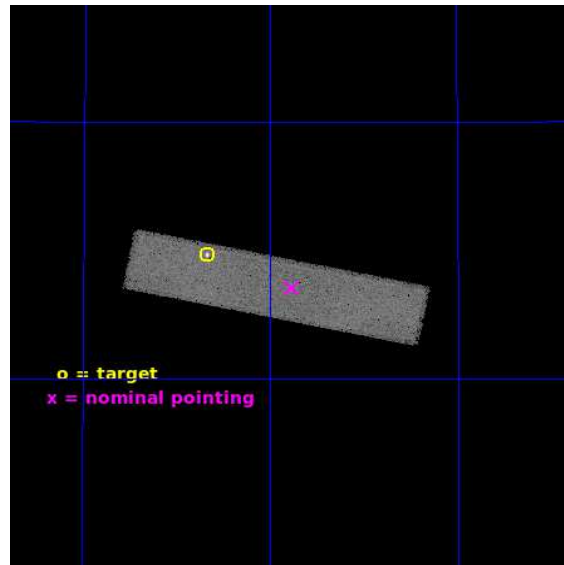
L2 Processing Date : Oct 10 2020

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1 Front

seq_num	290509	Sequence number
obs_id	6017	Observation id
title	AO6B Calibration Observations to Monitor the Spatial Variations in the HRC-S Gain	Proposal title
observer	CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	331.94208403165	Nominal RA [deg]
dec_nom	45.678217544118	Nominal Dec [deg]
roll_nom	191.49282185924	Nominal Roll [deg]
revision	4	Processing version of data
ontime	1157.4813031852	[s]
livetime	1147.2937624544	Ontime multiplied by DTCOR
l2events	72341	Number of level 2 events

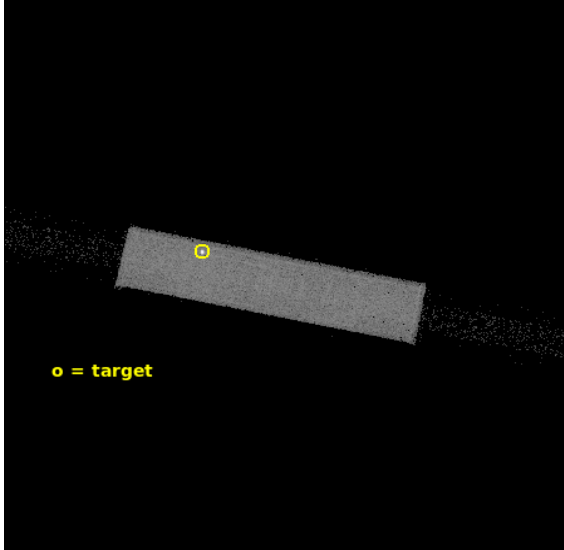


2 OBI

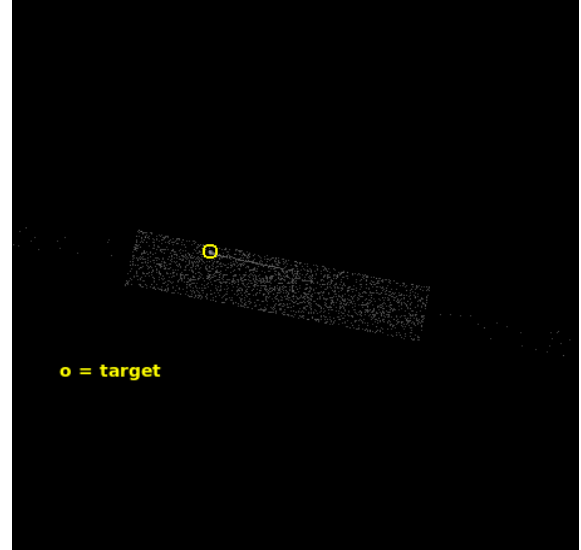
2.1 OBI

2.1.1 Images

Level 1 Image



Level 1 Bad Events



2.1.2 Parameters

obi_num	0	Obi number	sched_exp_time	1000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	1157.4813031852	[s]
caldsver	4.9.2	 	l1events	109148	Number of level 1 events
date	2020-10-10T08:02:55	Date and time of file creation			
revision	4	Processing version of data			

2.1.3 Events

Level 1 Events

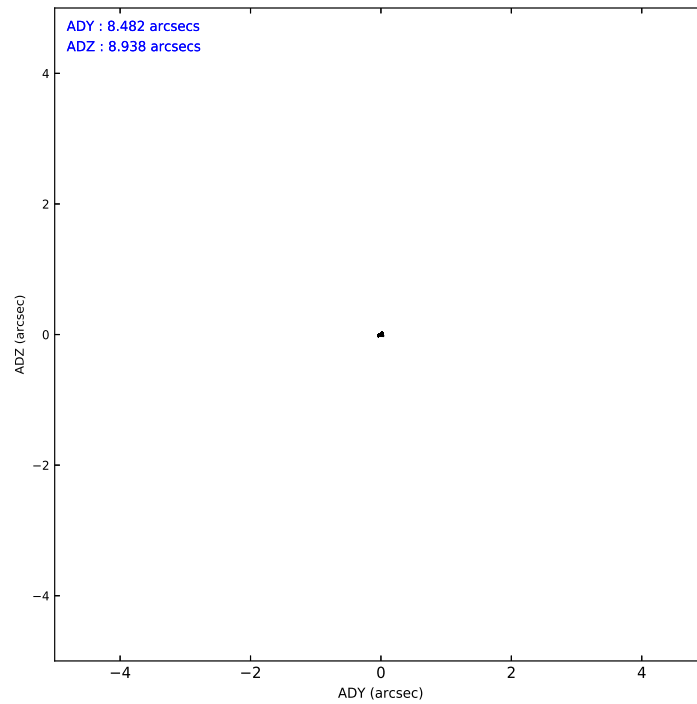
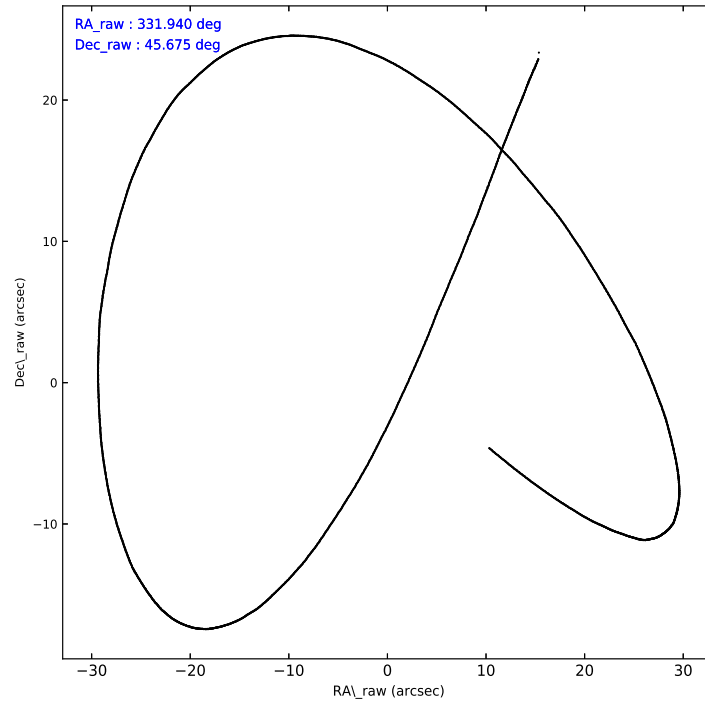
	segment 1	segment 2	segment 3
level 1 events	883	107402	863
rejected events	883	21179	863
rejected %	100%	19%	100%

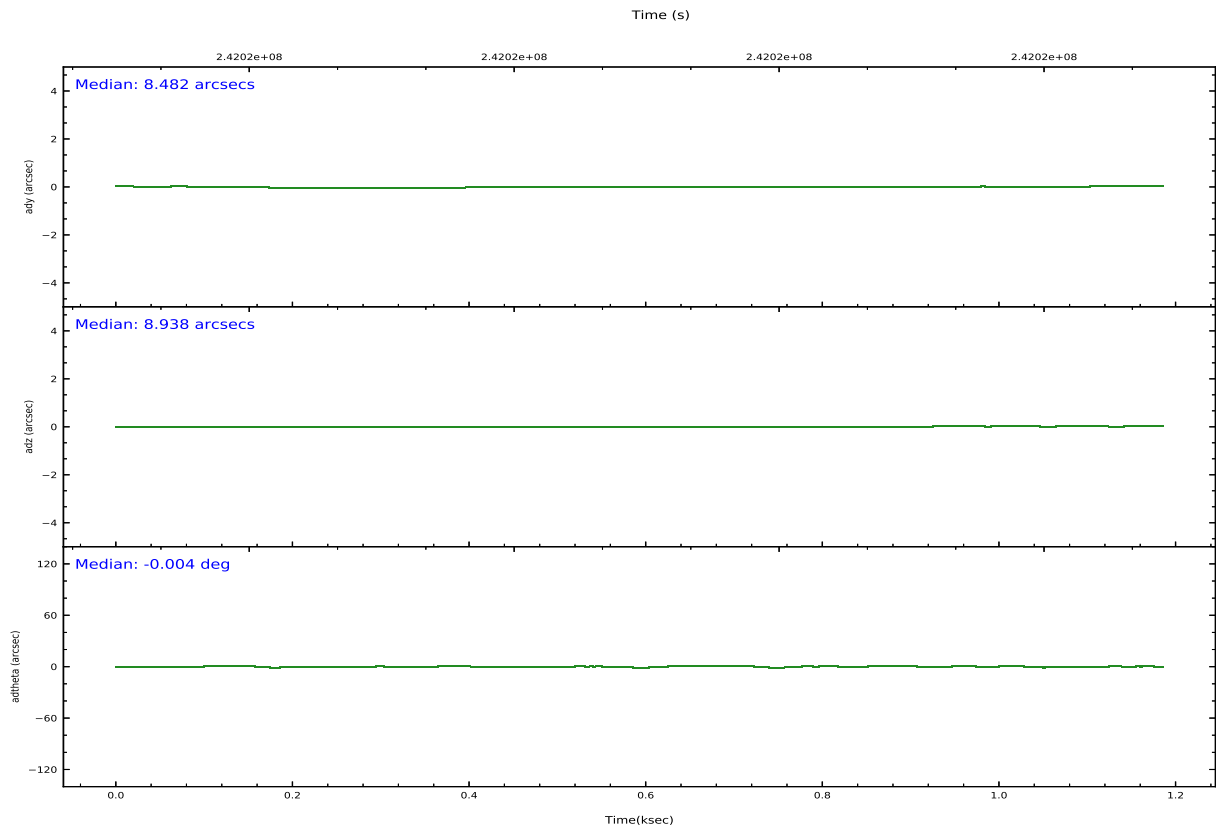
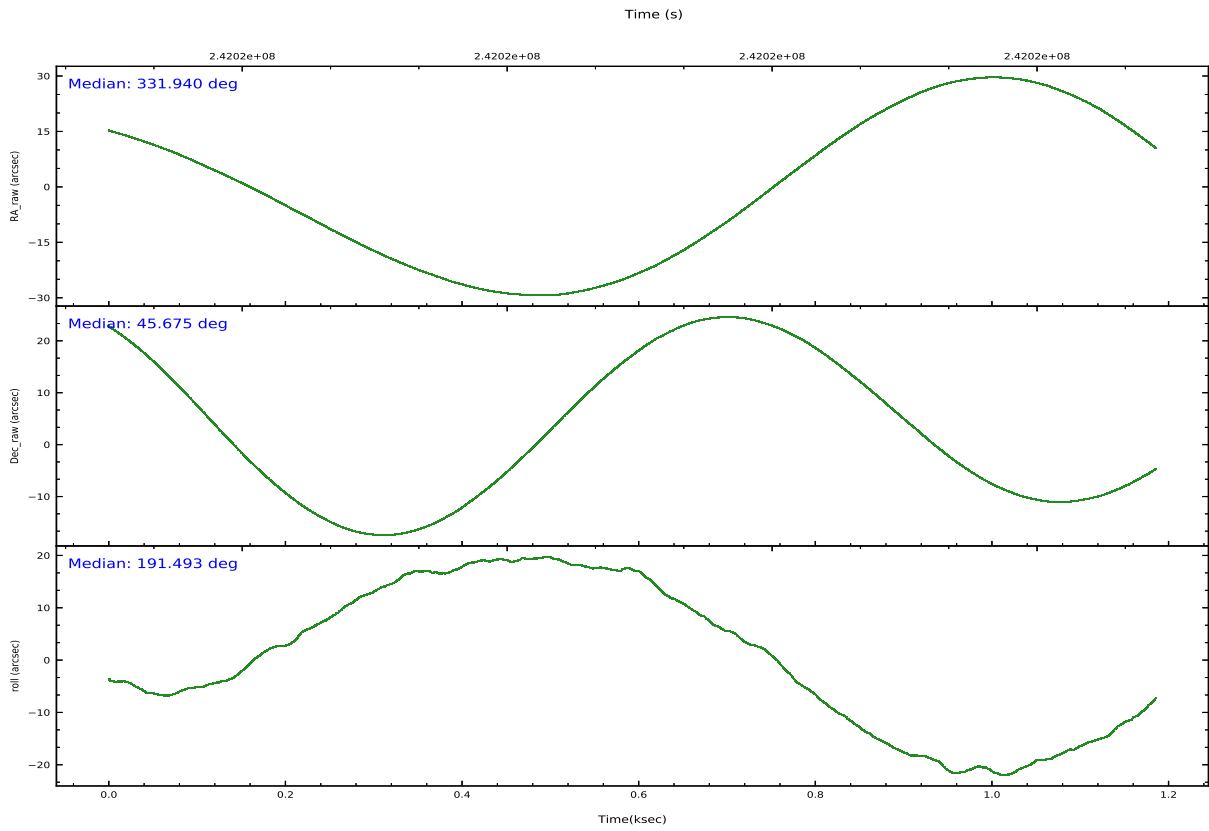
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	HRC	HRC
Detector	HRC-S	HRC-S
Grating	NONE	NONE
Data mode	OBSERVING	OBSERVING
Observation mode	POINTING	POINTING
[deg] Pointing RA	331.968067	331.94208403165
[deg] Pointing Dec	45.696024	45.678217544118
[deg] Pointing Roll	191.406418	191.49282185924
[mm] SIM focus pos	-1.429586	-1.428180813131781
[mm] SIM defocus	0.1037507710433287	0.1051558262725154
[mm] SIM translation stage pos	250.455976	250.466033080201
[mm] SIM translation stage offset	0	-0.01005468664627074
[s] Observation start time (MET)	242023934.184000	242023558.39711
Observation start date	2005-09-02T04:51:10	2005-09-02T04:45:58
[s] Observation end time (MET)	242024934.184000	242025068.73468
Observation end date	2005-09-02T05:07:50	2005-09-02T05:11:08

Parameter	Planned	Actual
Obspar version number	8	8
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED

2.3 Aspect





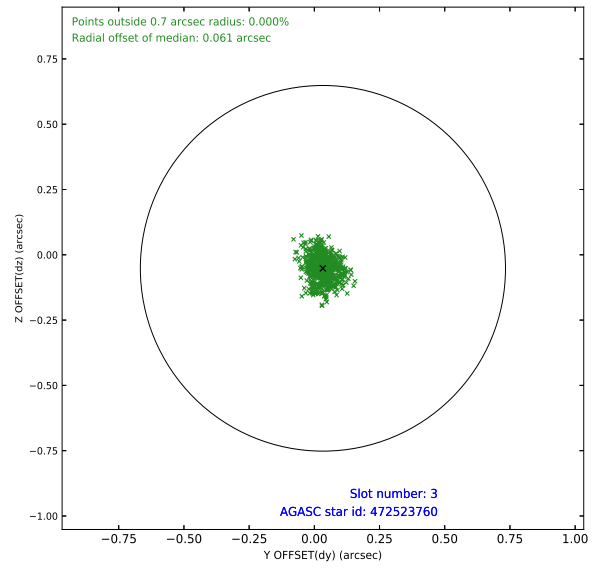
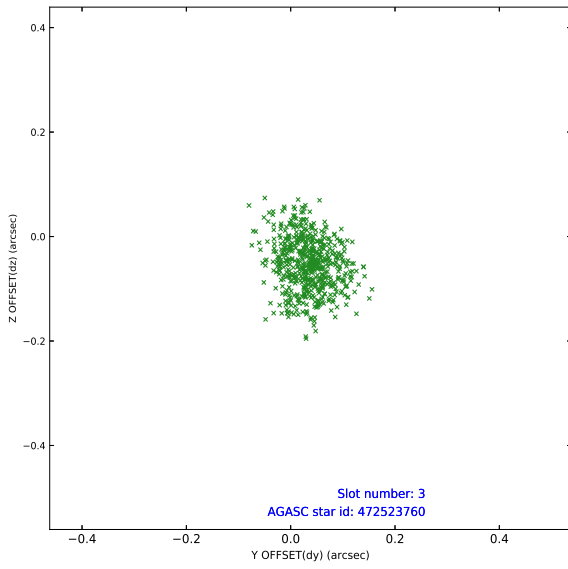
Slot Statistics

slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		HRC-S-1	7.04	290	1.000	0.132	-0.184	0.006	0.010	0.000000	0.000000	-1162.66	-457
1	FID		HRC-S-2	7.03	290	1.000	0.165	-0.116	0.005	0.008	0.000000	0.000000	1233.04	-451
2	FID		HRC-S-3	7.05	290	1.000	0.093	-0.002	0.006	0.011	0.000000	0.000000	-1161.18	570
3	GUIDE	used	472523760	8.24	580	1.000	0.033	-0.052	0.070	0.111	331.645363	45.403260	1008.98	867
4	GUIDE	used	472527720	6.99	580	1.000	-0.091	-0.068	0.060	0.104	331.460205	45.112509	1682.17	1798
5	GUIDE	used	472535576	7.85	580	1.000	-0.111	0.136	0.056	0.088	331.438373	46.291802	870.93	-2367
6	GUIDE	used	472655152	9.44	580	1.000	0.110	-0.025	0.105	0.171	332.504239	45.862991	-1434.47	-335
7	GUIDE	used	472663080	9.42	579	1.000	0.054	0.012	0.101	0.168	332.652741	46.473840	-2220.23	-2420

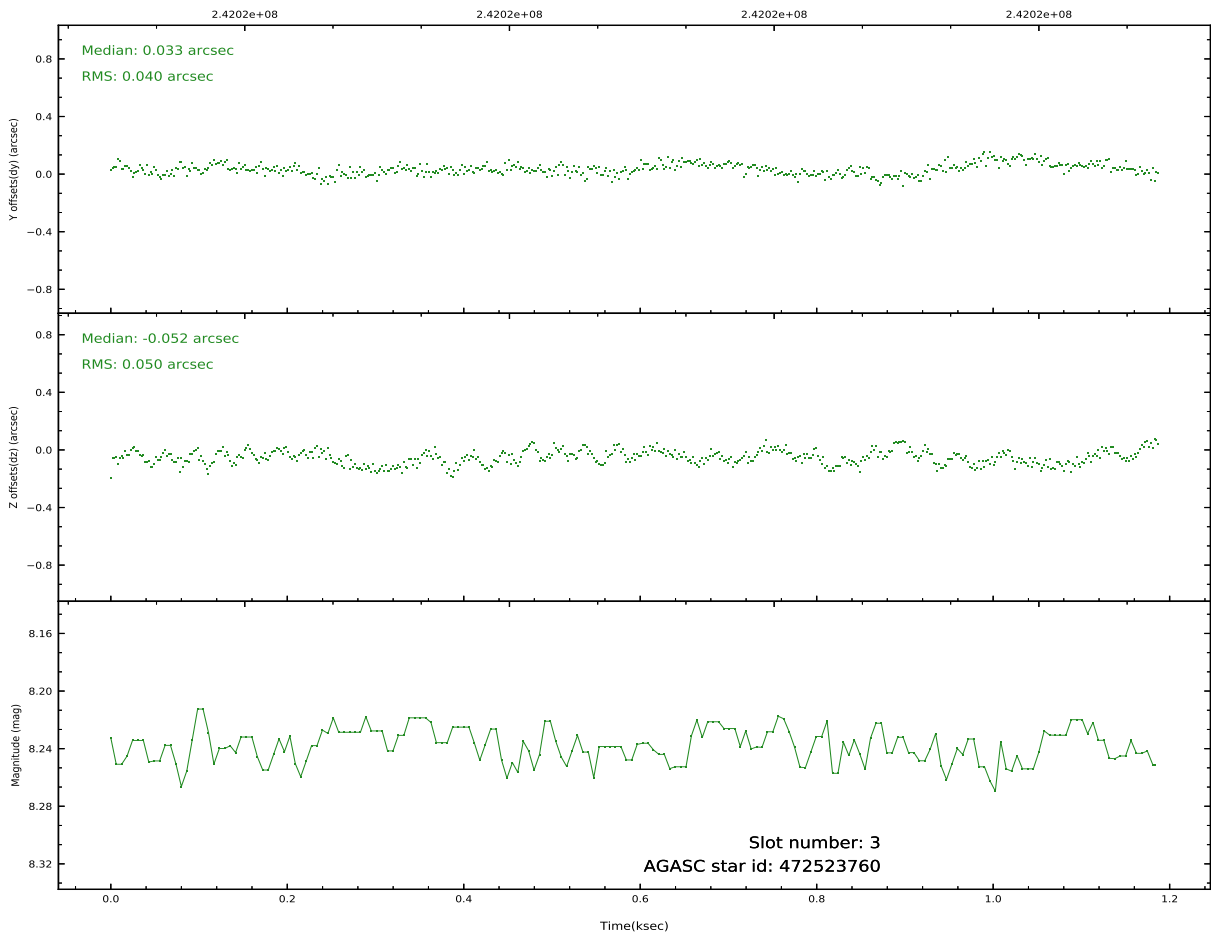
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2.4 Star Slots

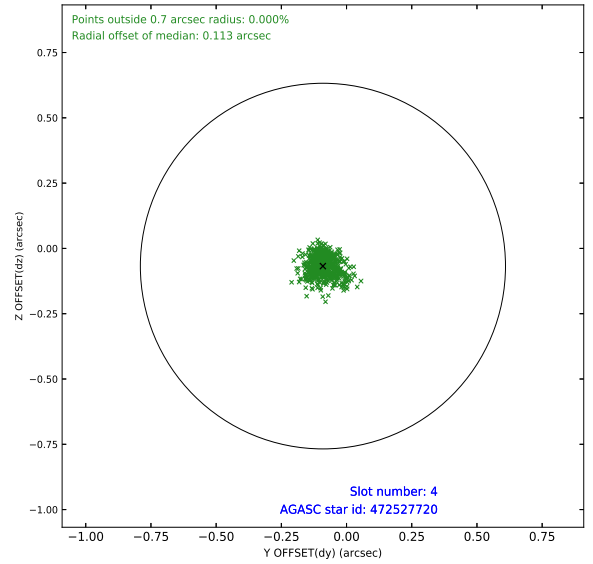
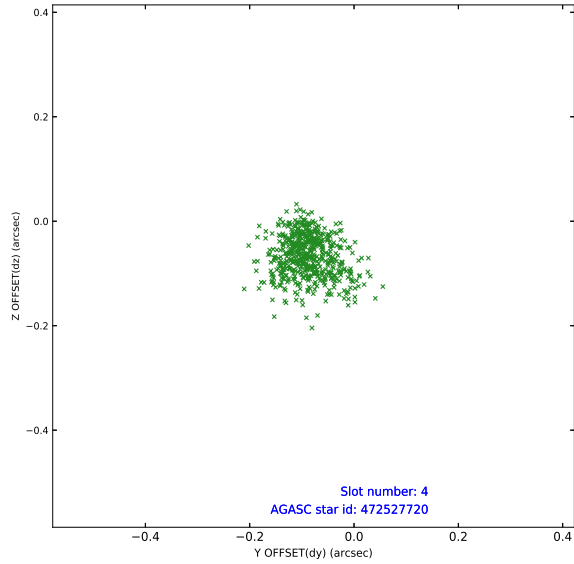
2.4.1 Slot 3



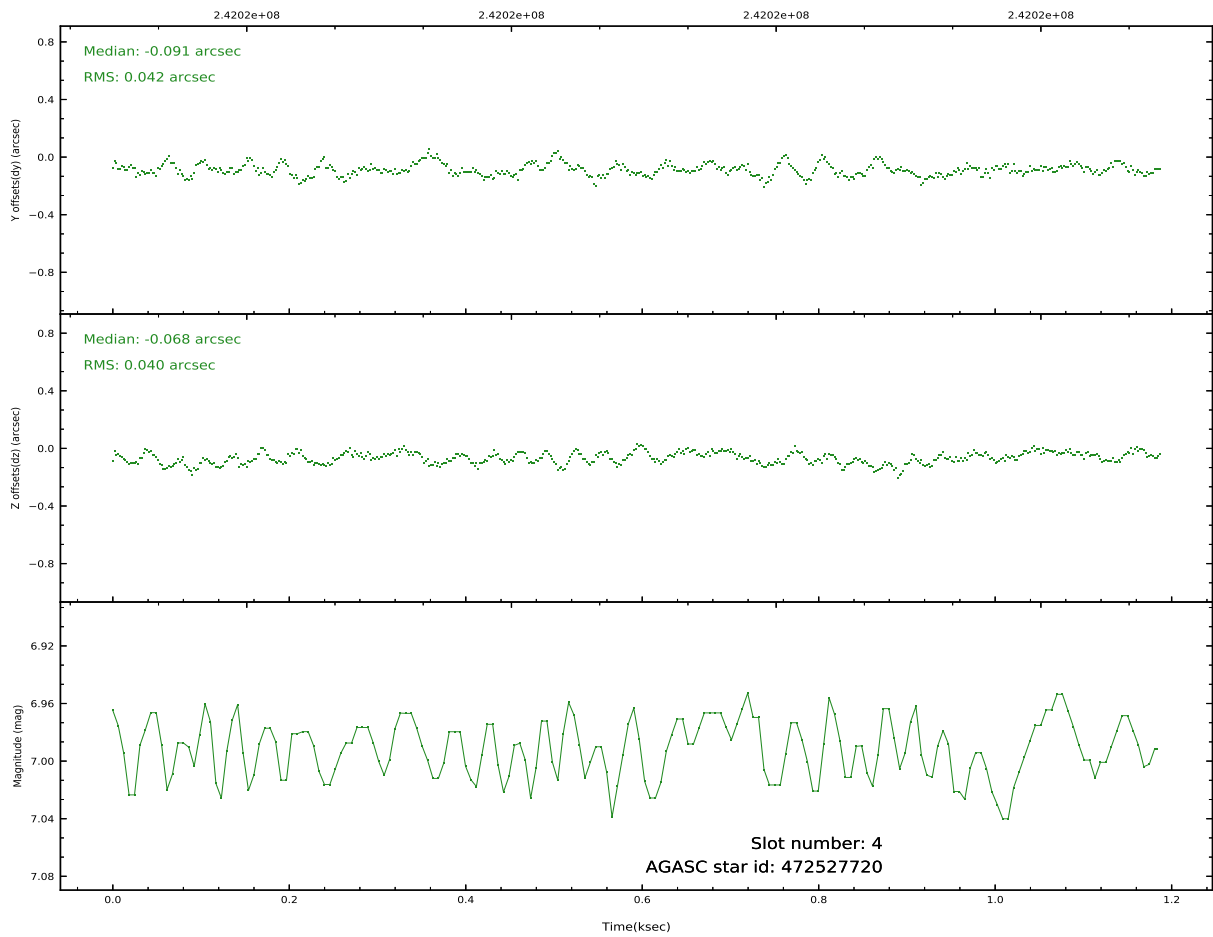
Time (s)



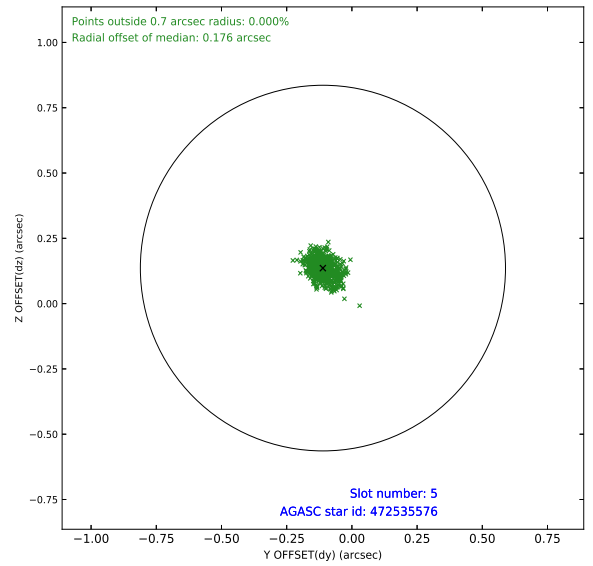
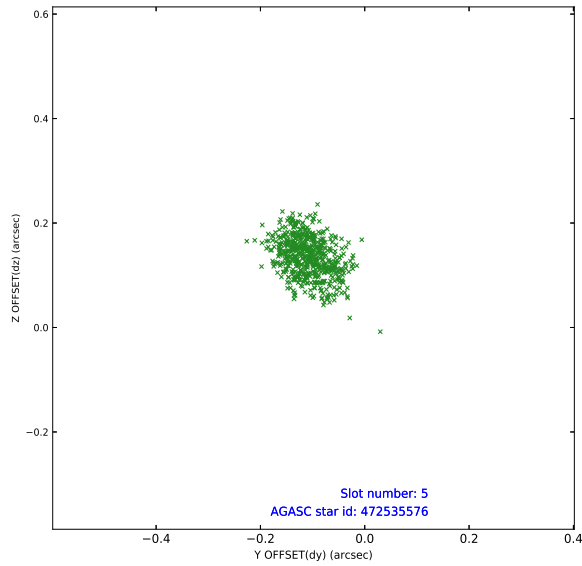
2.4.2 Slot 4



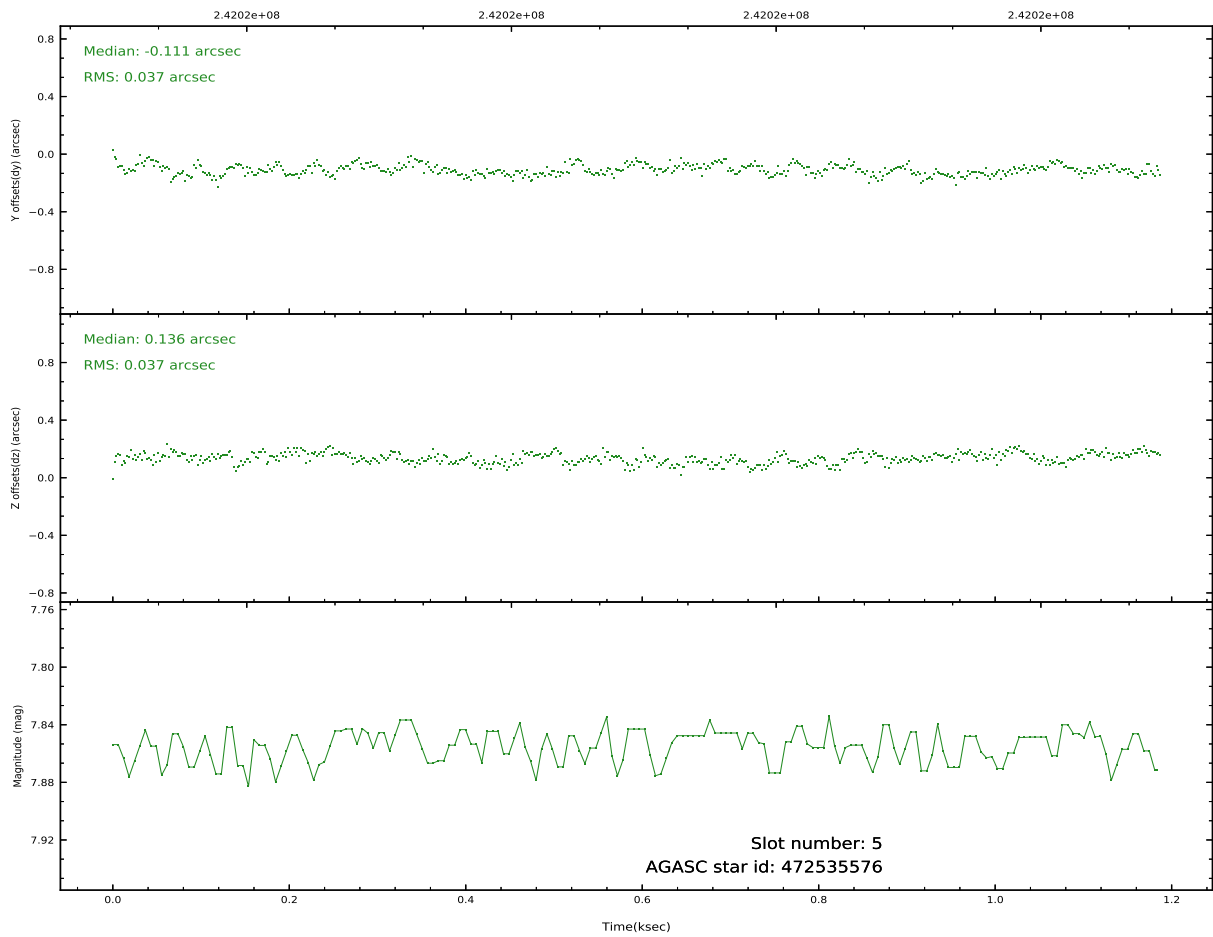
Time (s)



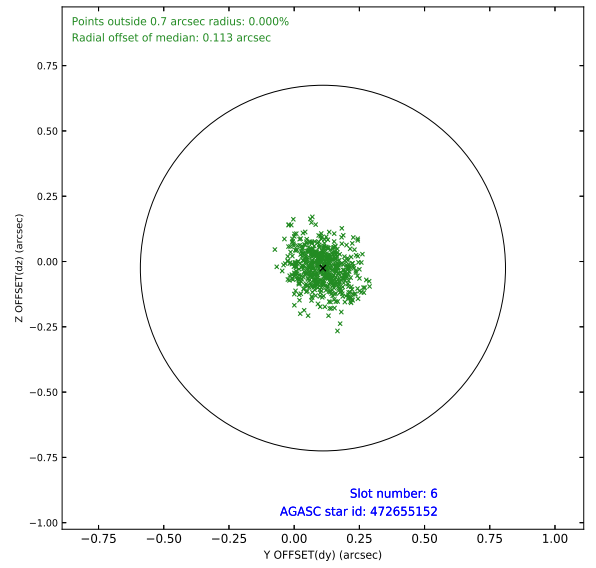
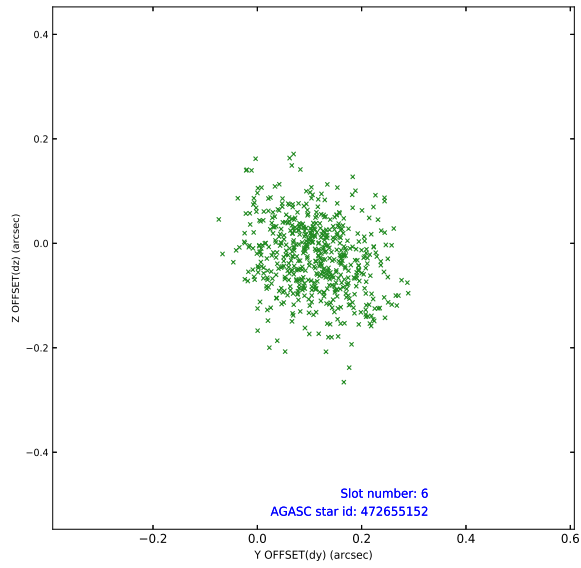
2.4.3 Slot 5



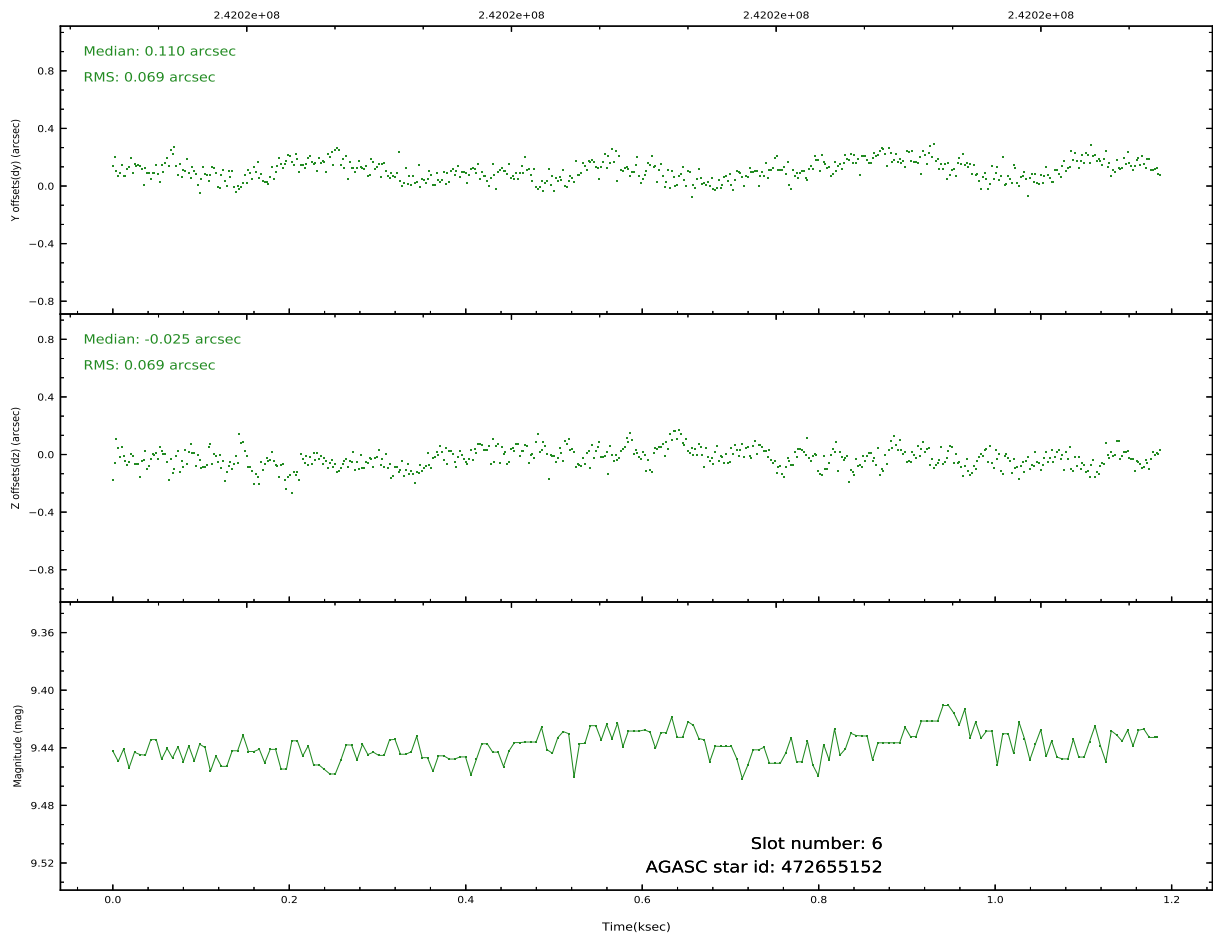
Time (s)



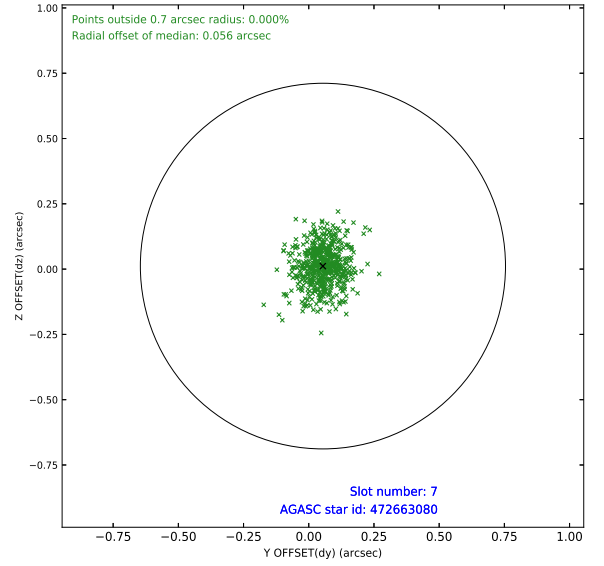
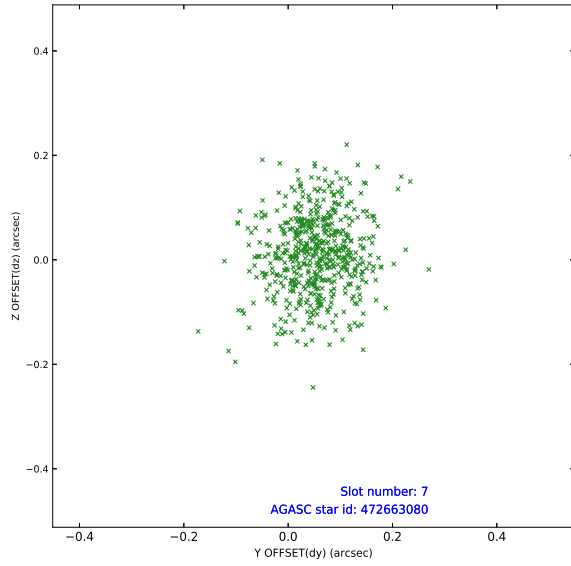
2.4.4 Slot 6



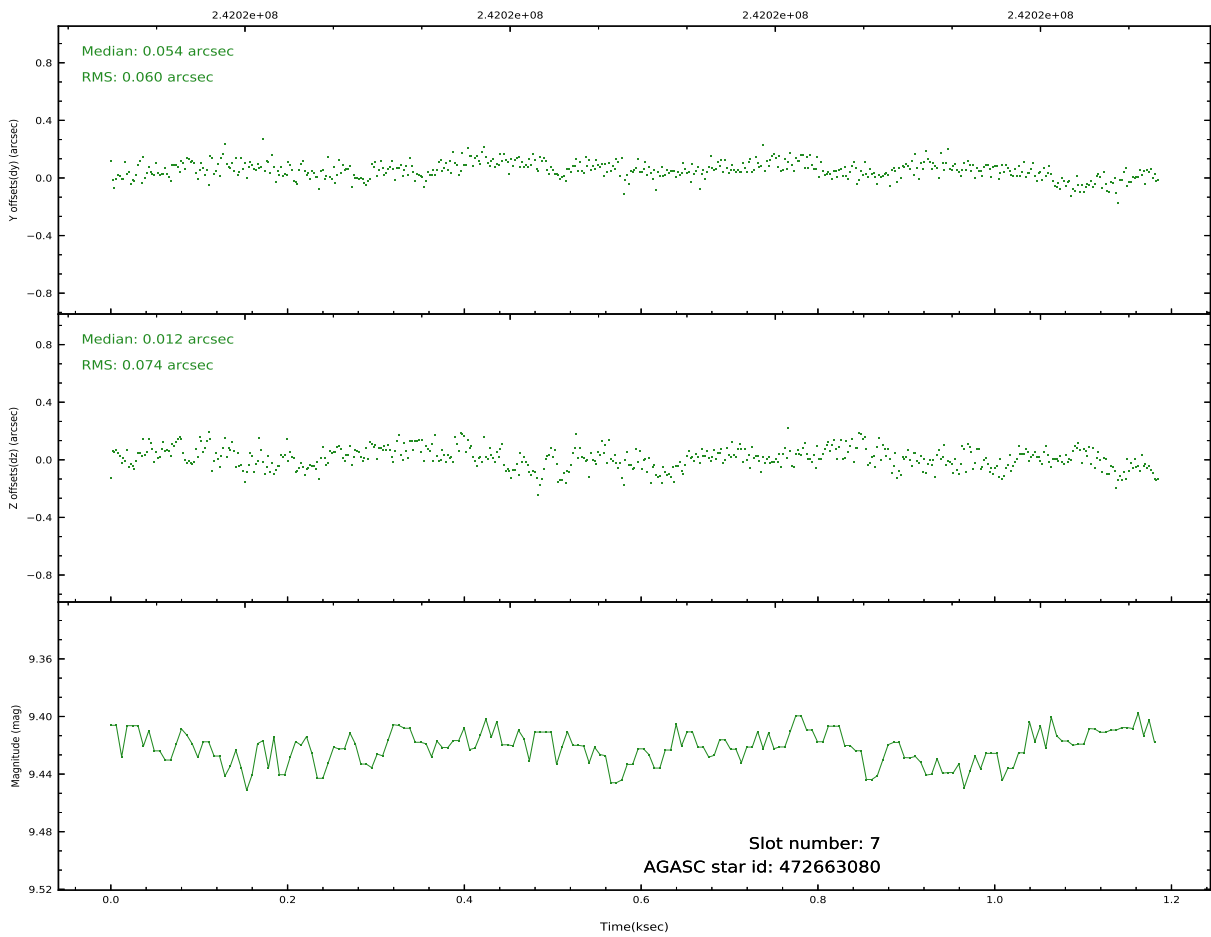
Time (s)



2.4.5 Slot 7

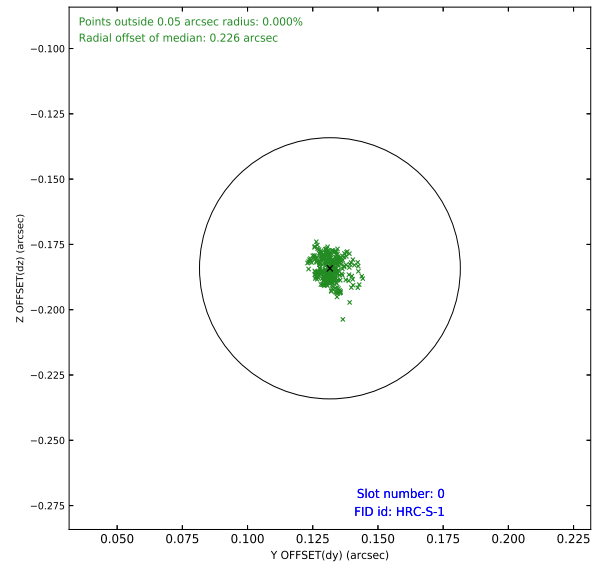
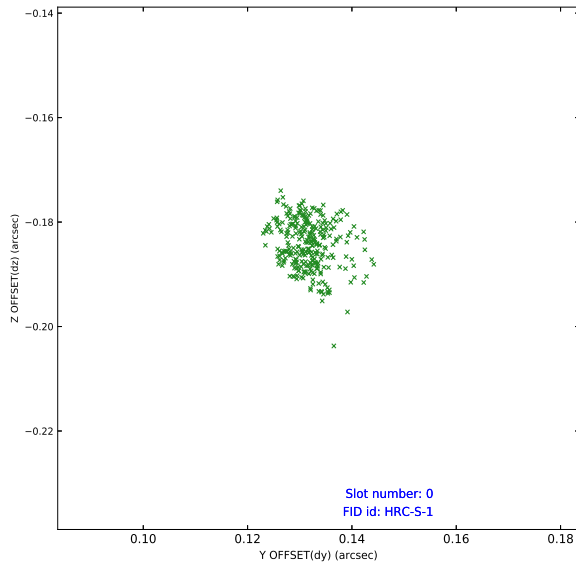


Time (s)

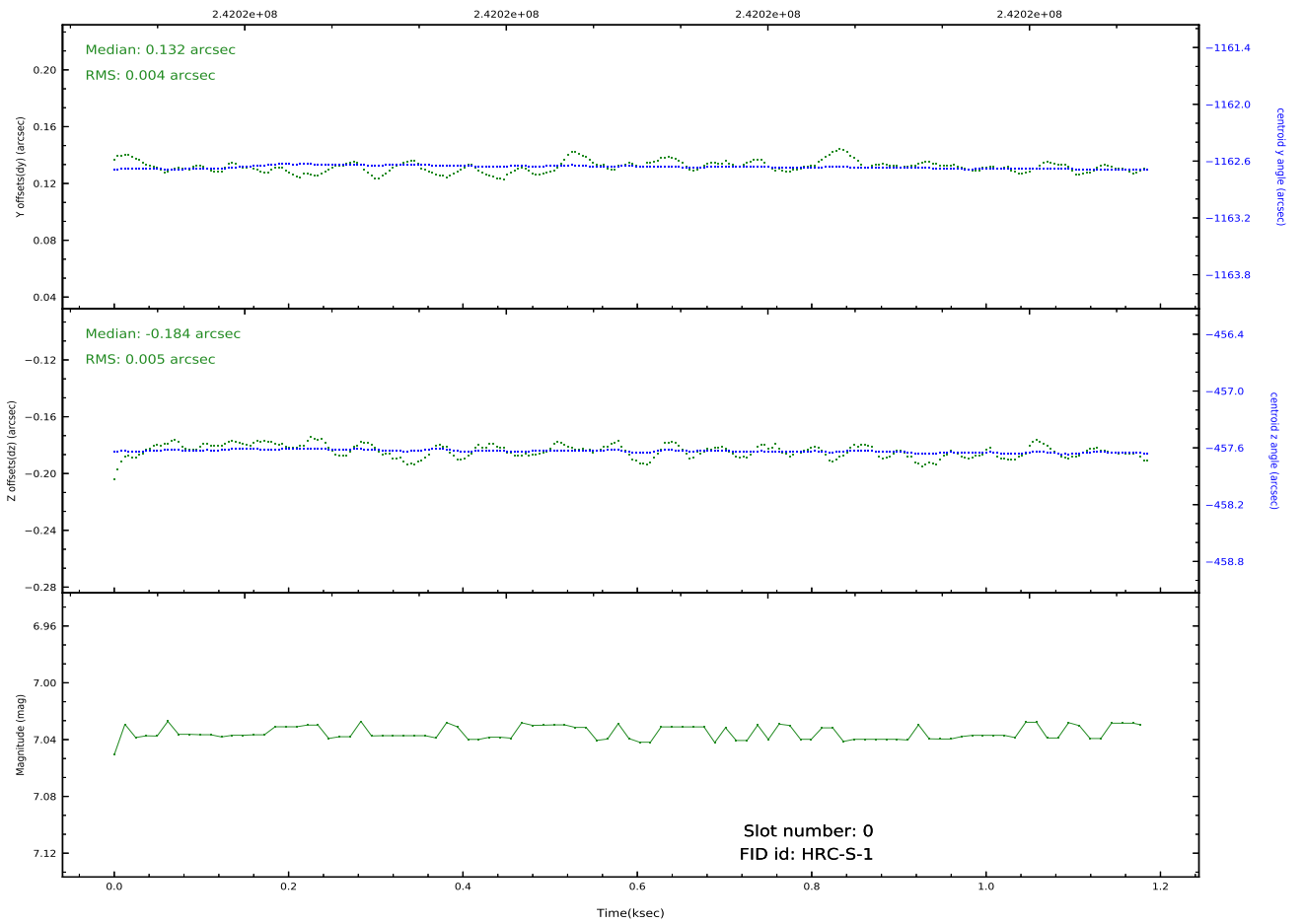


2.5 FID Slots

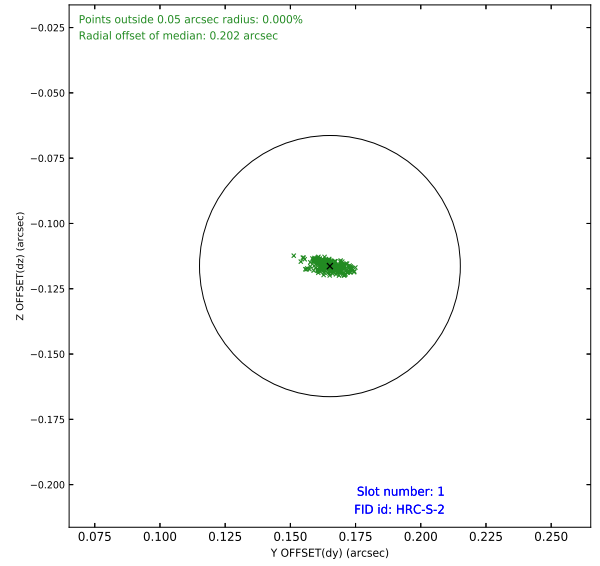
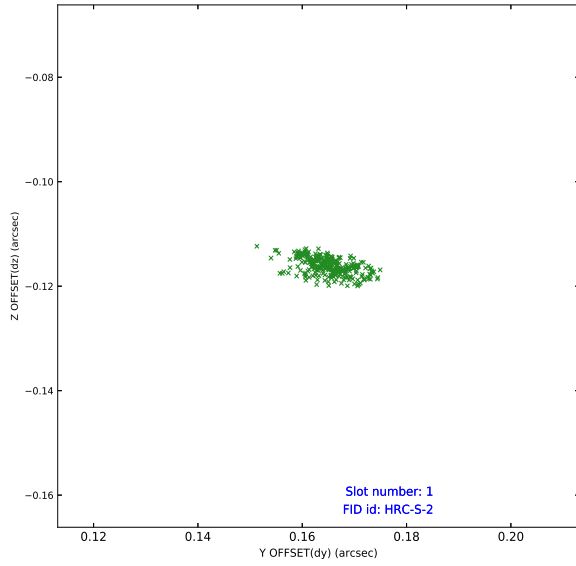
2.5.1 Slot 0



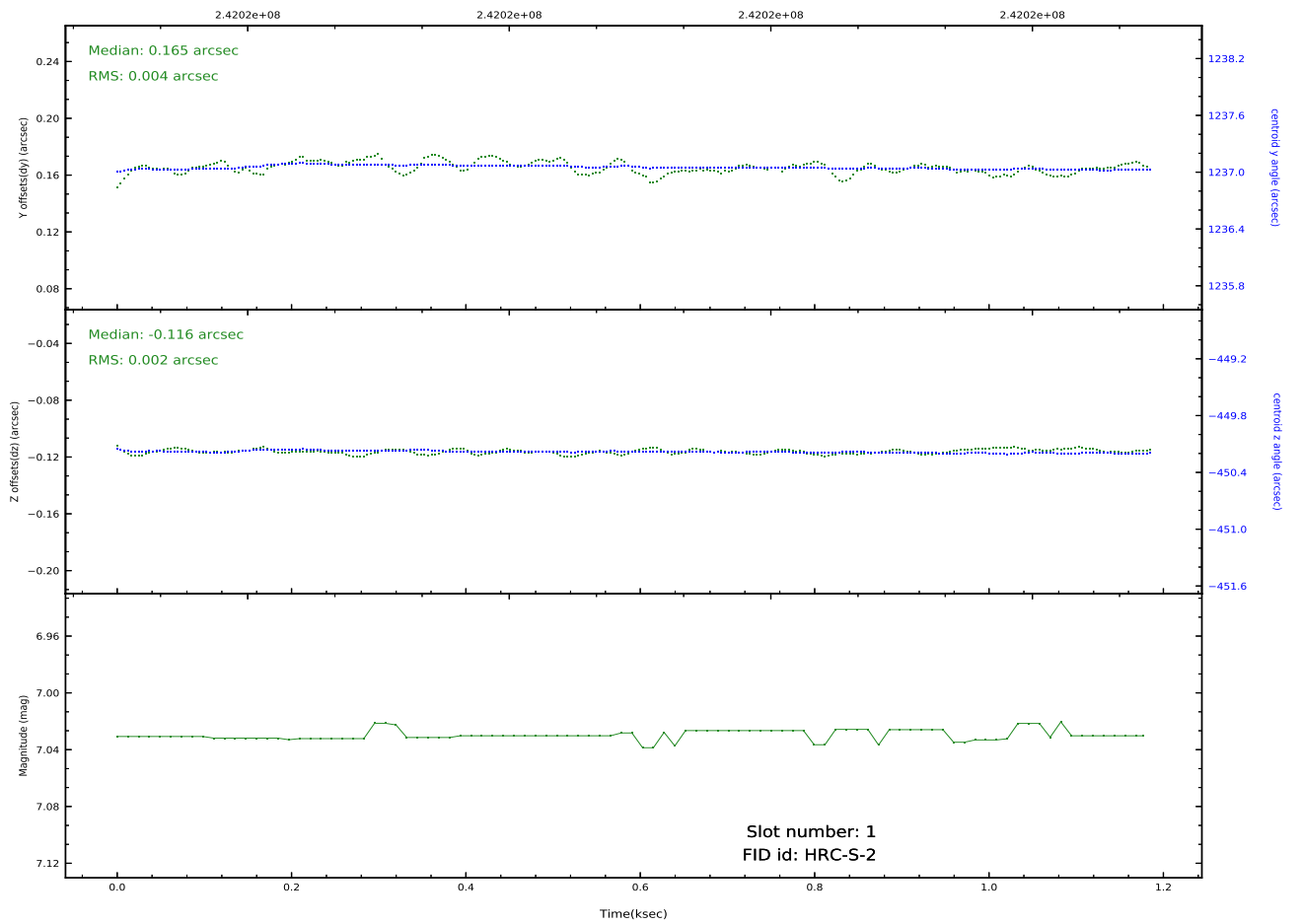
Time (s)



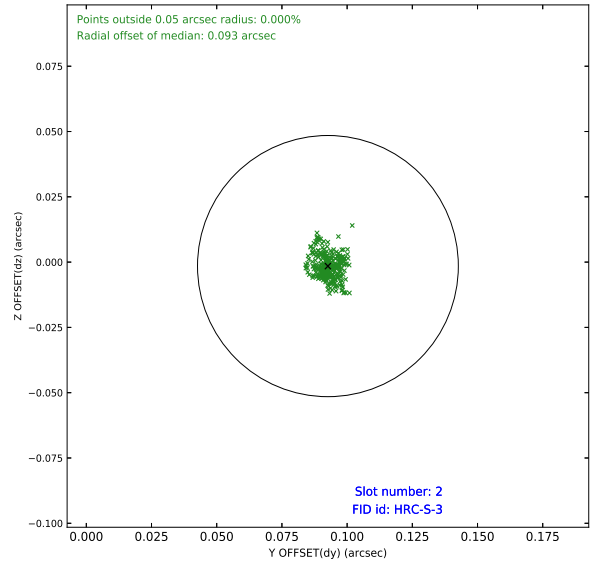
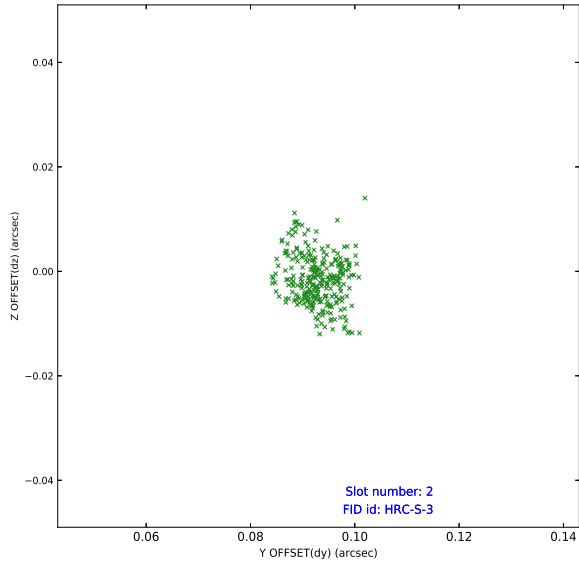
2.5.2 Slot 1



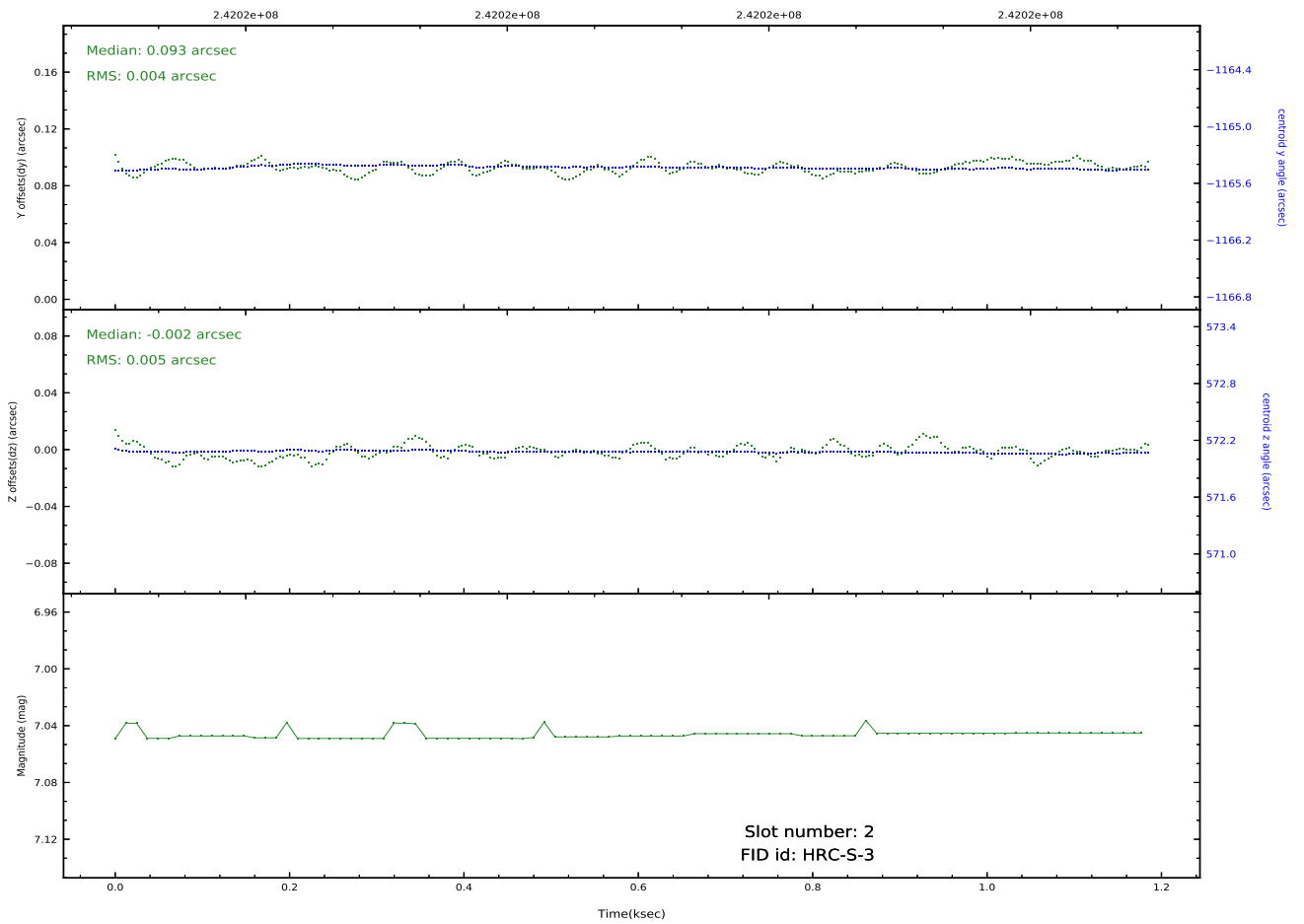
Time (s)



2.5.3 Slot 2



Time (s)



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2020.10.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.157225

A.2 Comments

Due to corruption of the secondary science data during this observation, some instrument parameters have bogus values. The data in this observation have been inspected by the HRC team. PLEASE NOTE: All the event data in this observation are good. The short gaps in the GTI intervals can be eliminated (i.e., use the first START and last STOP). THE DTF values during this observation can be estimated by dropping all the low values and averaging the remaining values near 1.0.