

# V&V Reference Report

## L2 ASCDS Version : 10.9.1

Observation 4554 - L2 Version 4  
Chandra X-Ray Center

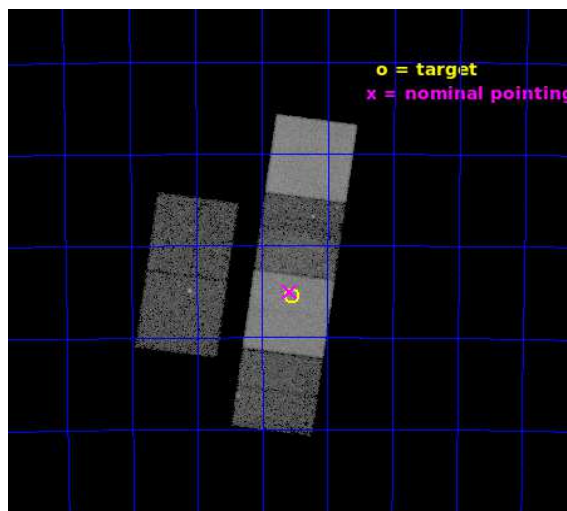
L2 Processing Date : Oct 5 2020

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# 1 Front

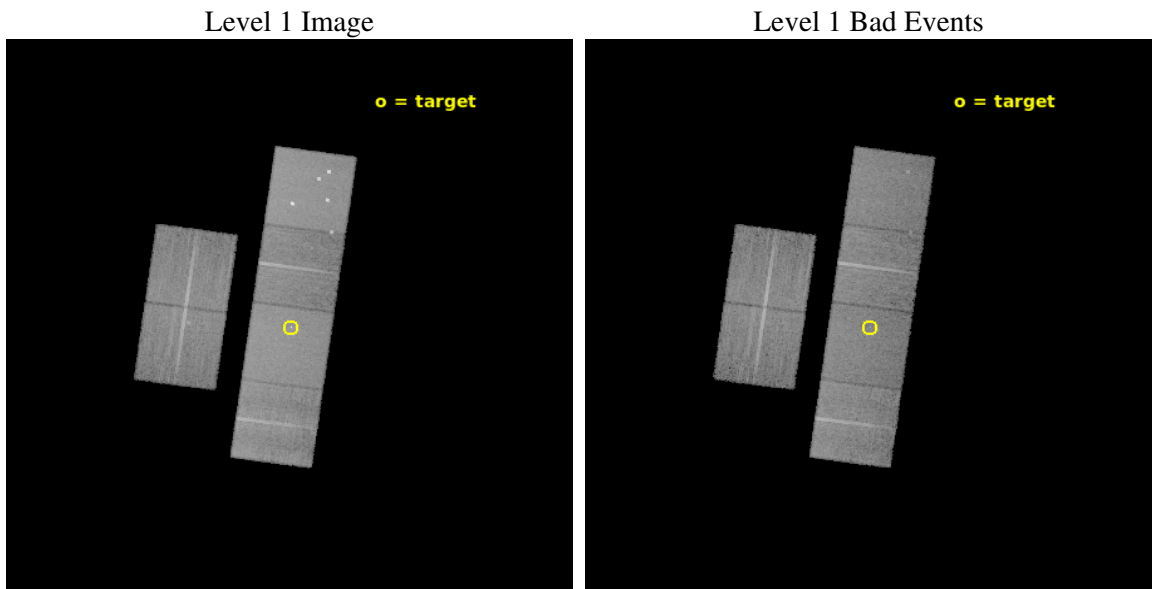
seq_num	400337	Sequence number
obs_id	4554	Observation id
title	1WGA J1346.5-6255: A New High-Mass Microquasar?	Proposal title
observer	Dr. Yousaf Butt	Principal investigator
object	1WGA J1346.5-6255	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	206.634583	Observer's specified target RA [deg]
dec_targ	-62.925	Observer's specified target Dec [deg]
ra_nom	206.64385092264	Nominal RA [deg]
dec_nom	-62.917094916102	Nominal Dec [deg]
roll_nom	97.928005186231	Nominal Roll [deg]
revision	4	Processing version of data
ontime	15116.799943686	Sum of GTIs [s]
livetime	14925.381920554	Livetime [s]
ontime2	15116.799943686	Sum of GTIs [s]
ontime3	15116.799943686	Sum of GTIs [s]
ontime5	15116.799943686	Sum of GTIs [s]
ontime6	15113.558983415	Sum of GTIs [s]
ontime7	15116.799943686	Sum of GTIs [s]
ontime8	15113.558973402	Sum of GTIs [s]
l2events	198489	Number of level 2 events



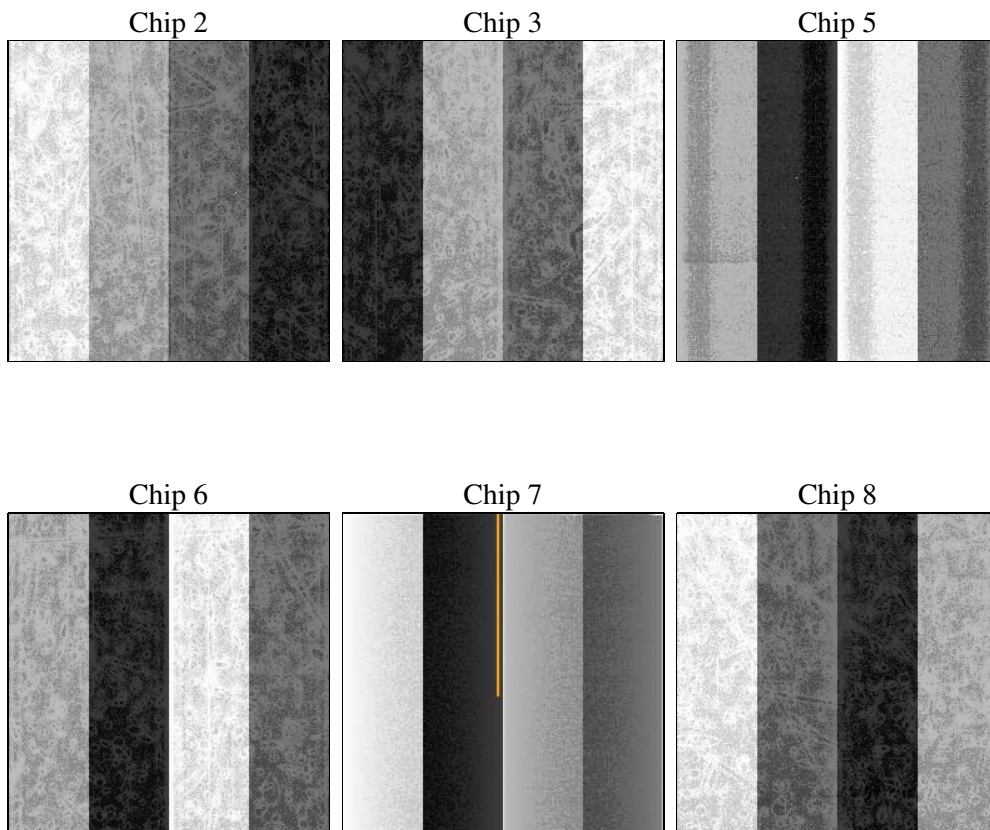
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	15160.880000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	15116.799943686	Sum of GTIs [s]
caldsver	4.9.2	&#160	ontime2	15116.799943686	Sum of GTIs [s]
date	2020-10-05T19:12:54	Date and time of file creation	ontime3	15116.799943686	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	15116.799943686	Sum of GTIs [s]
			ontime6	15113.558983415	Sum of GTIs [s]
			ontime7	15116.799943686	Sum of GTIs [s]
			ontime8	15113.558973402	Sum of GTIs [s]
			l1events	850460	Number of level 1 events

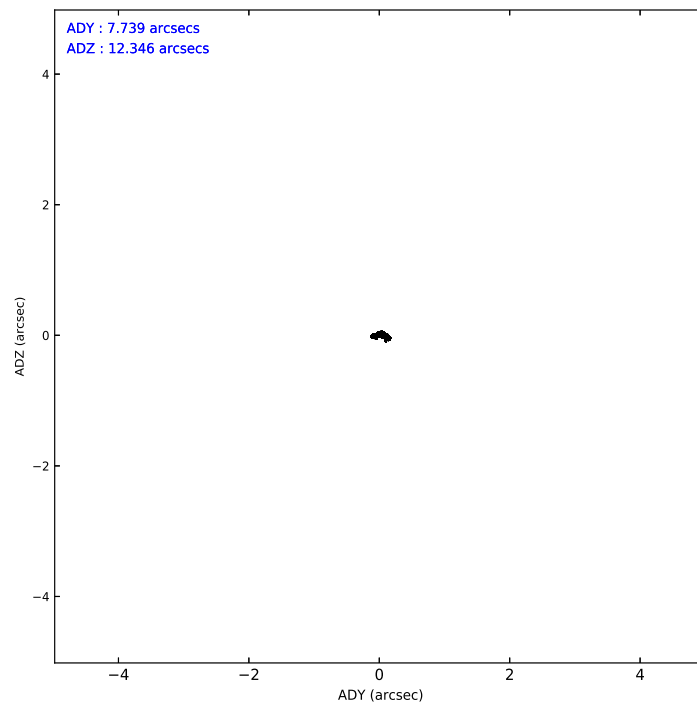
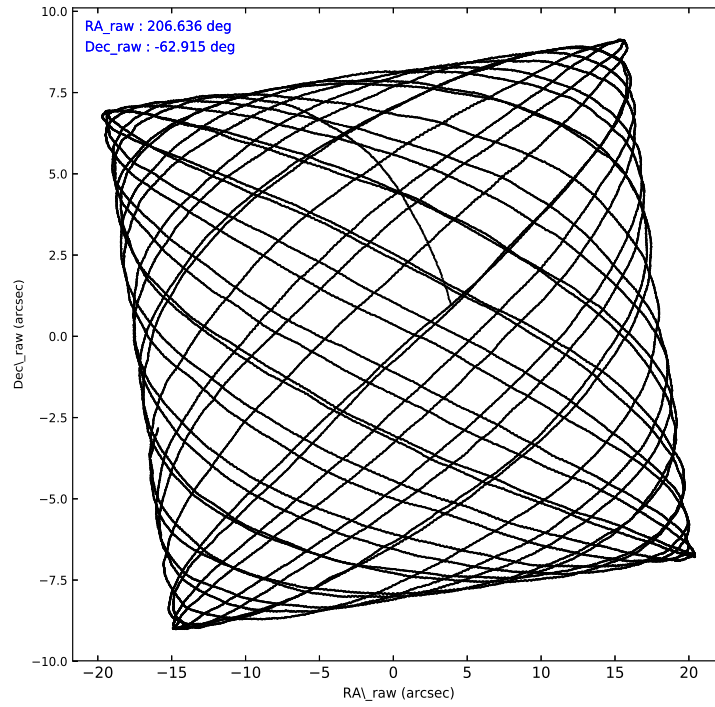
### 2.1.4 Events

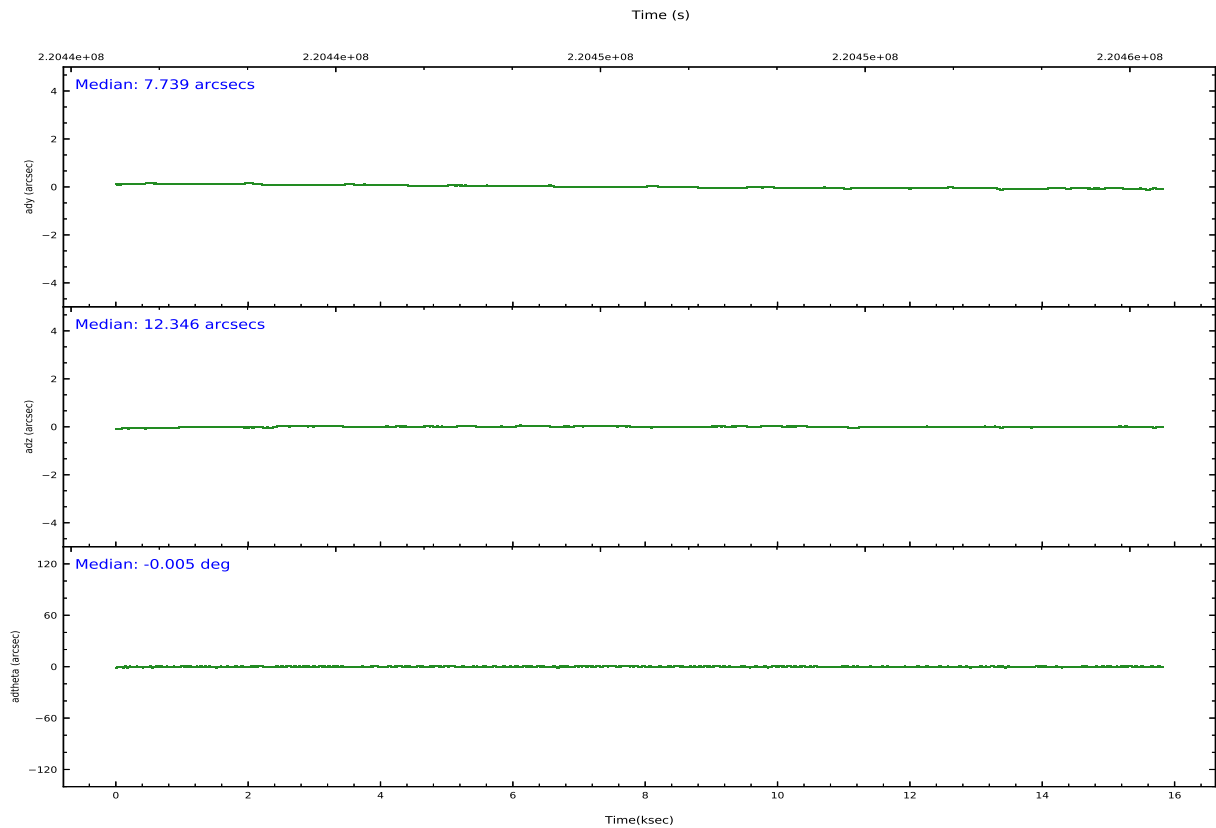
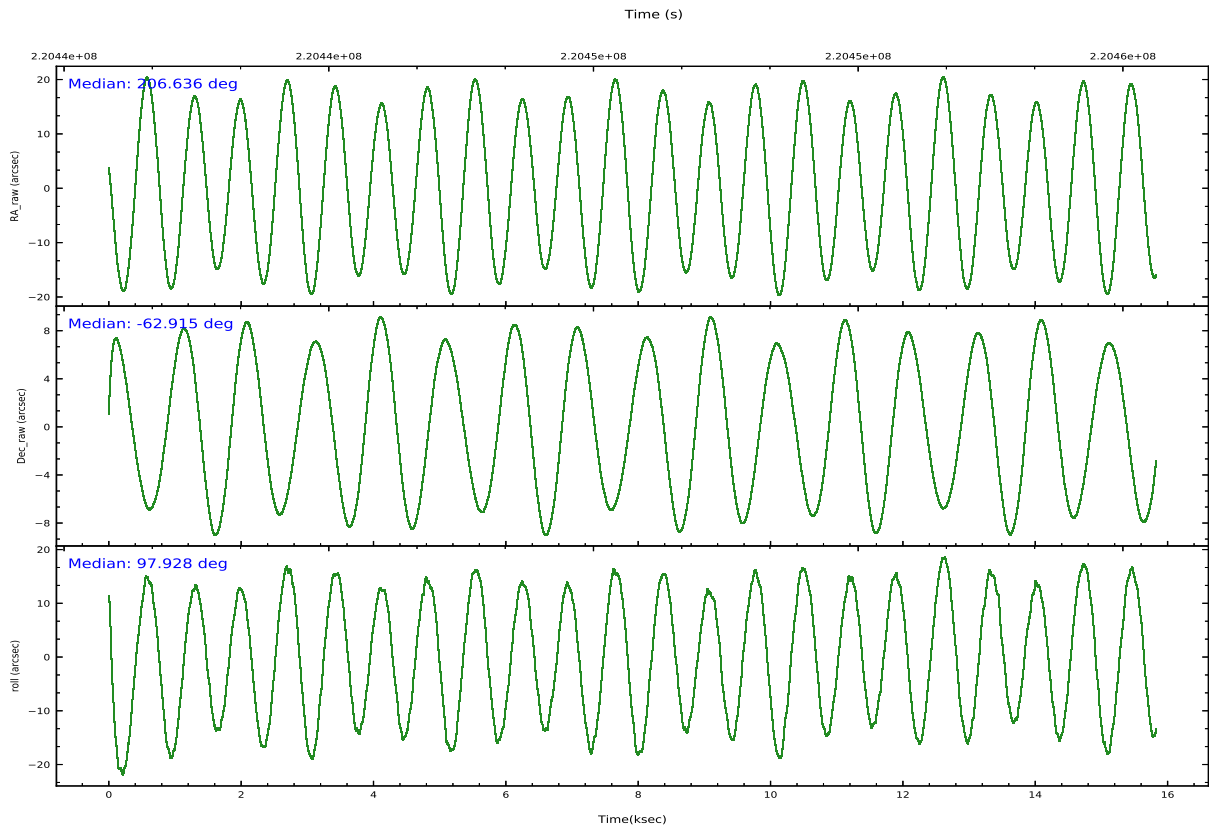
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	119525	113403	186765	121268	163505	145994	grade 0 events	6401	6166	17086	8938	6991	10171
rejected events	105405	99570	95133	103264	92540	114159		5%	5%	9%	7%	4%	6%
rejected %	88%	87%	50%	85%	56%	78%	grade 1 events	88	83	613	78	187	84
								0%	0%	0%	0%	0%	0%
							grade 2 events	2865	2560	25816	3346	14468	6967
								2%	2%	13%	2%	8%	4%
							grade 3 events	1290	1343	3337	1541	6410	3316
								1%	1%	1%	1%	3%	2%
							grade 4 events	1255	1398	3130	1381	6451	3141
								1%	1%	1%	1%	3%	2%
							grade 5 events	4589	5160	13133	5403	15344	6902
								3%	4%	7%	4%	9%	4%
							grade 6 events	2319	2379	42305	2808	36666	8241
								1%	2%	22%	2%	22%	5%
							grade 7 events	100718	94314	81345	97773	76988	107172
								84%	83%	43%	80%	47%	73%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-235678	ACIS-235678	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	206.672807	206.64385092264	Subarray requested	NONE	NONE
[deg] Pointing Dec	-62.936579	-62.917094916102	Alternating exposures requested	N	N
[deg] Pointing Roll	97.803384	97.928005186231	[s] Primary exposure time	0.000000	3.2
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	220441343.184000	220440141.12766			
Observation start date	2004-12-26T09:41:19	2004-12-26T09:22:21			
[s] Observation end time (MET)	220456503.184000	220456727.16591			
Observation end date	2004-12-26T13:53:59	2004-12-26T13:58:47			
Read mode	TIMED	TIMED			

## 2.3 Aspect



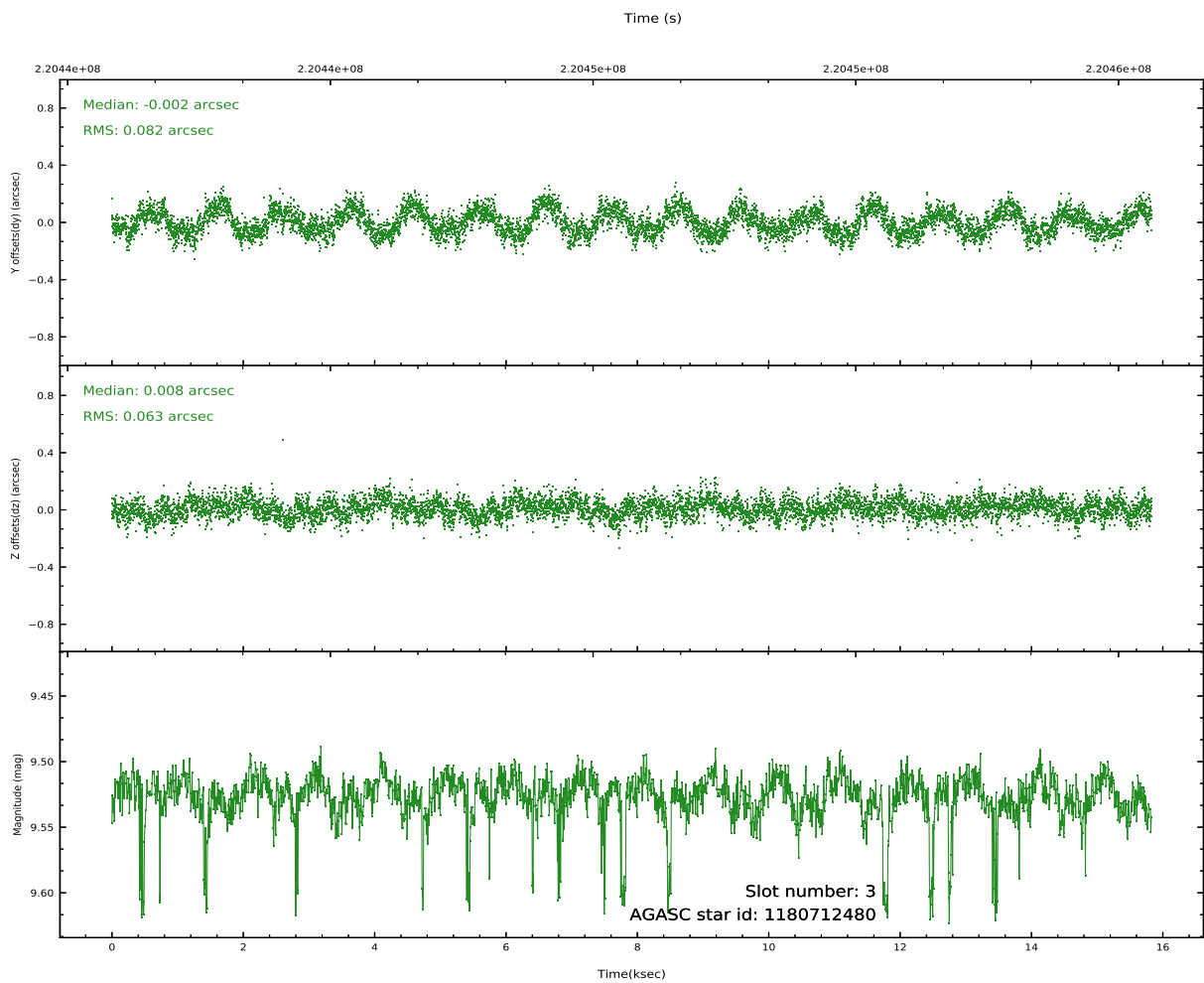
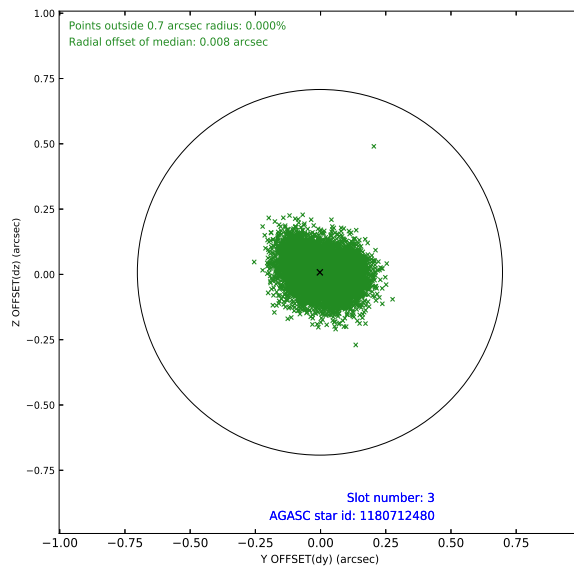
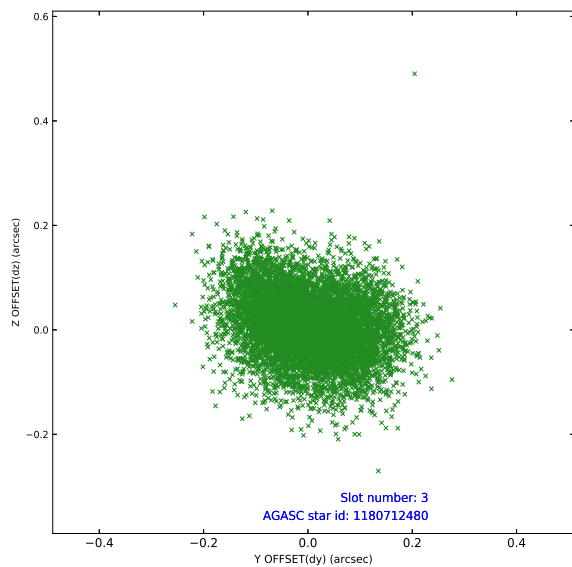


### Slot Statistics

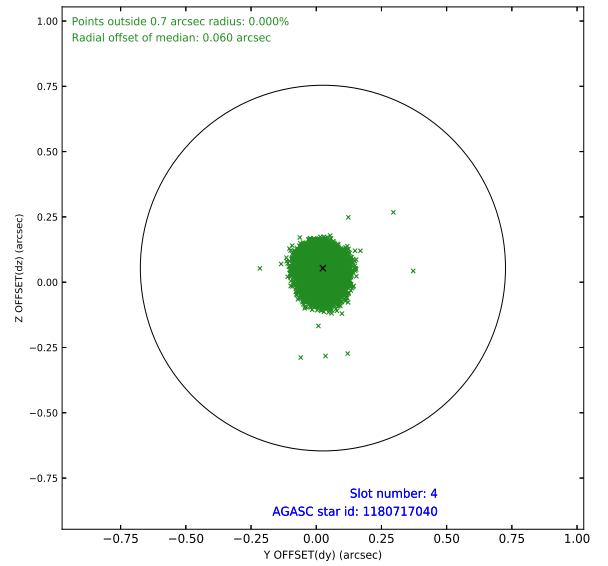
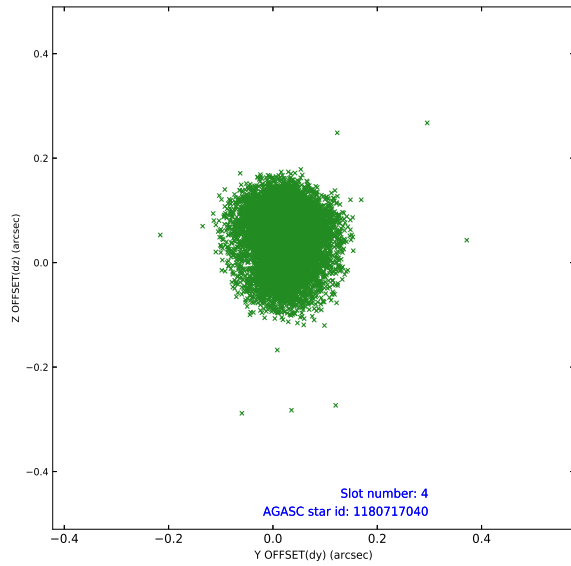
slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_x
0	FID		ACIS-S-2	7.10	3861	1.000	-0.037	-0.066	0.007	0.011	0.000000	0.000000	-760.54	-1733
1	FID		ACIS-S-4	7.20	3859	1.000	0.132	0.036	0.006	0.010	0.000000	0.000000	2152.76	174
2	FID		ACIS-S-5	7.23	3861	1.000	-0.125	0.039	0.007	0.012	0.000000	0.000000	-1813.13	168
3	GUIDE	used	1180712480	9.53	7701	1.000	-0.002	0.008	0.111	0.175	206.355056	-63.162303	-735.97	622
4	GUIDE	used	1180717040	7.85	7717	1.000	0.026	0.054	0.077	0.121	208.136771	-63.356115	-1843.62	-2132
5	GUIDE	used	1180724504	9.32	7719	1.000	-0.132	-0.066	0.085	0.139	205.862671	-62.438910	1949.71	1094
6	GUIDE	used	1180728632	9.36	7716	1.000	0.031	-0.034	0.095	0.157	205.841489	-63.568252	-2080.19	1630
7	GUIDE	used	1180731272	9.19	7718	1.000	0.071	0.046	0.072	0.120	207.870815	-63.500080	-2288.71	-1628

## 2.4 Star Slots

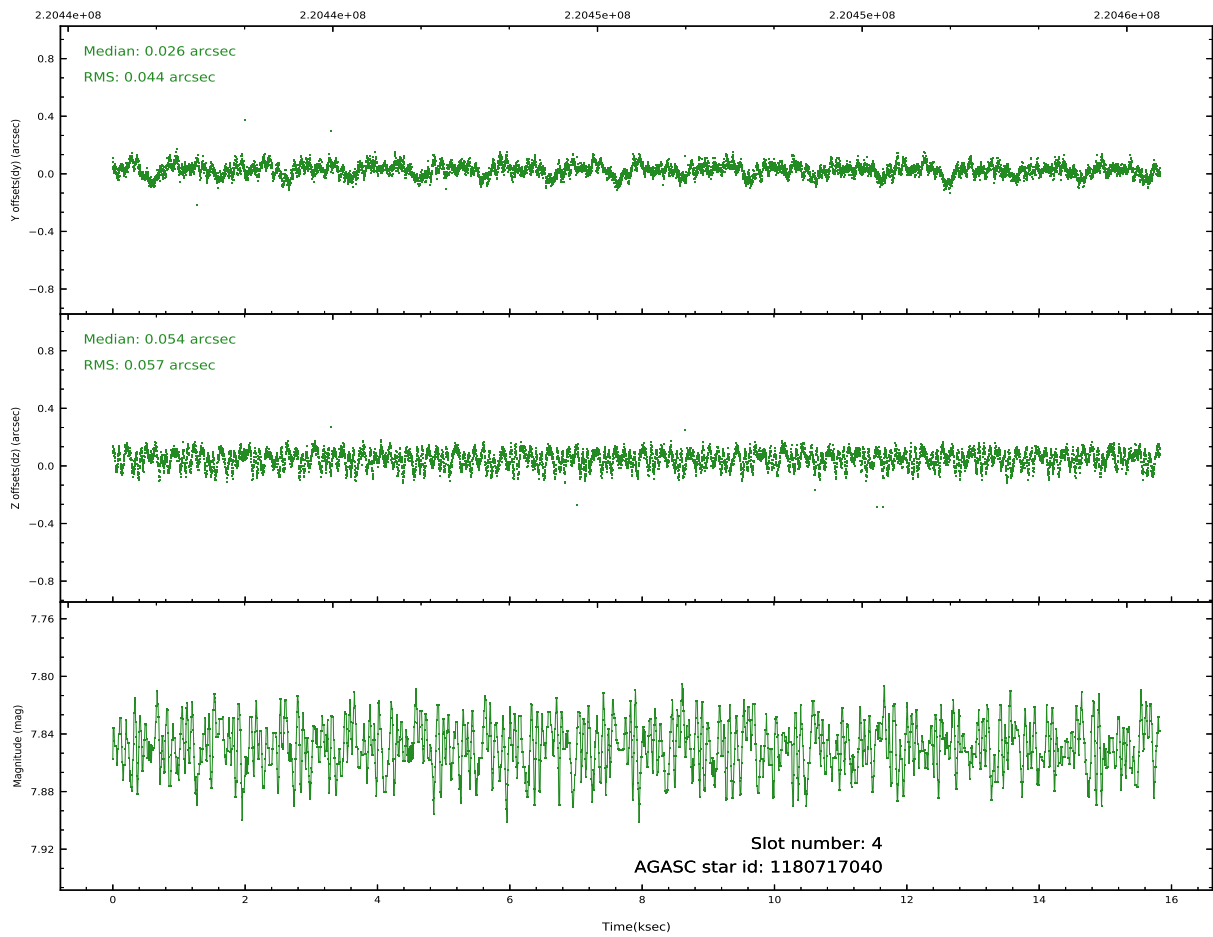
### 2.4.1 Slot 3



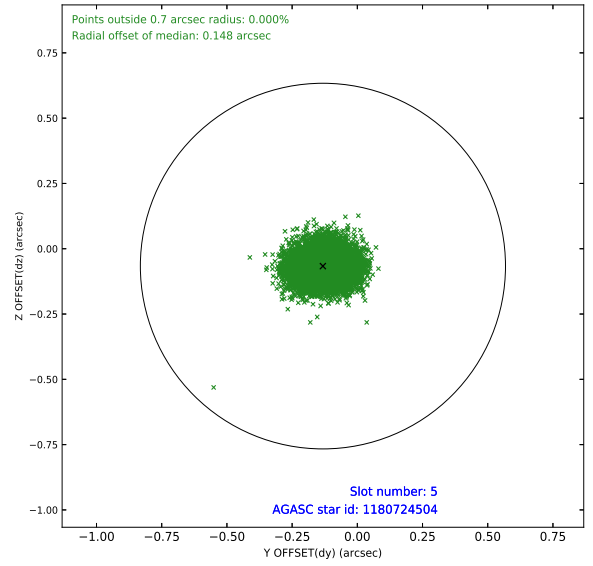
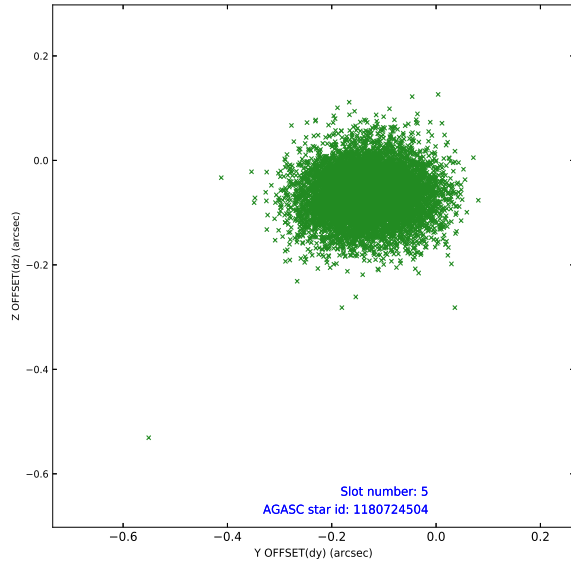
## 2.4.2 Slot 4



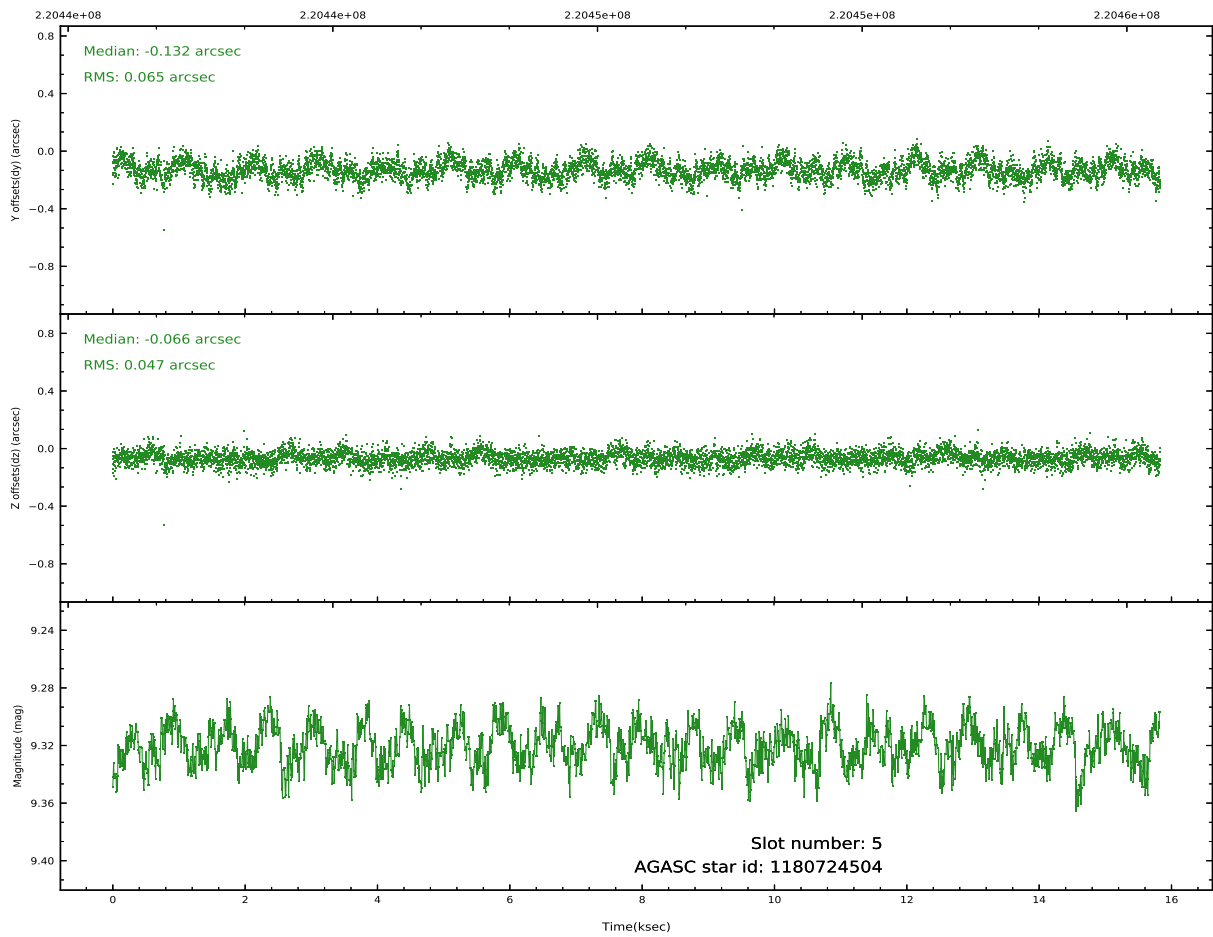
Time (s)



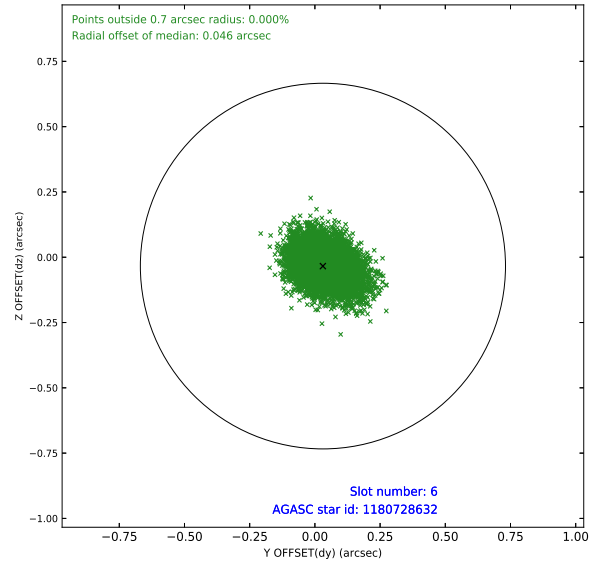
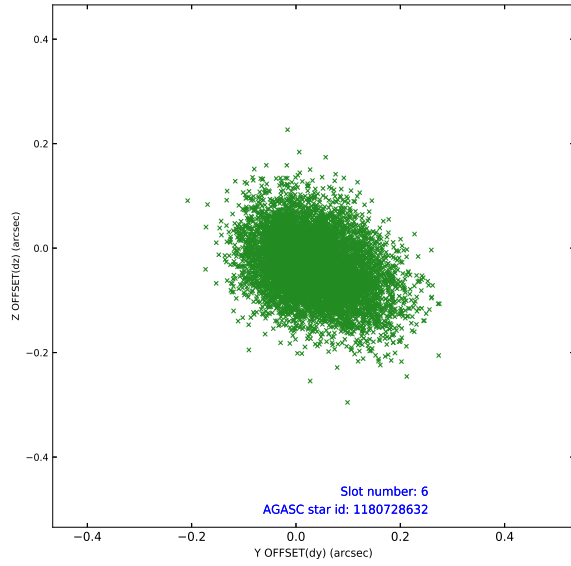
### 2.4.3 Slot 5



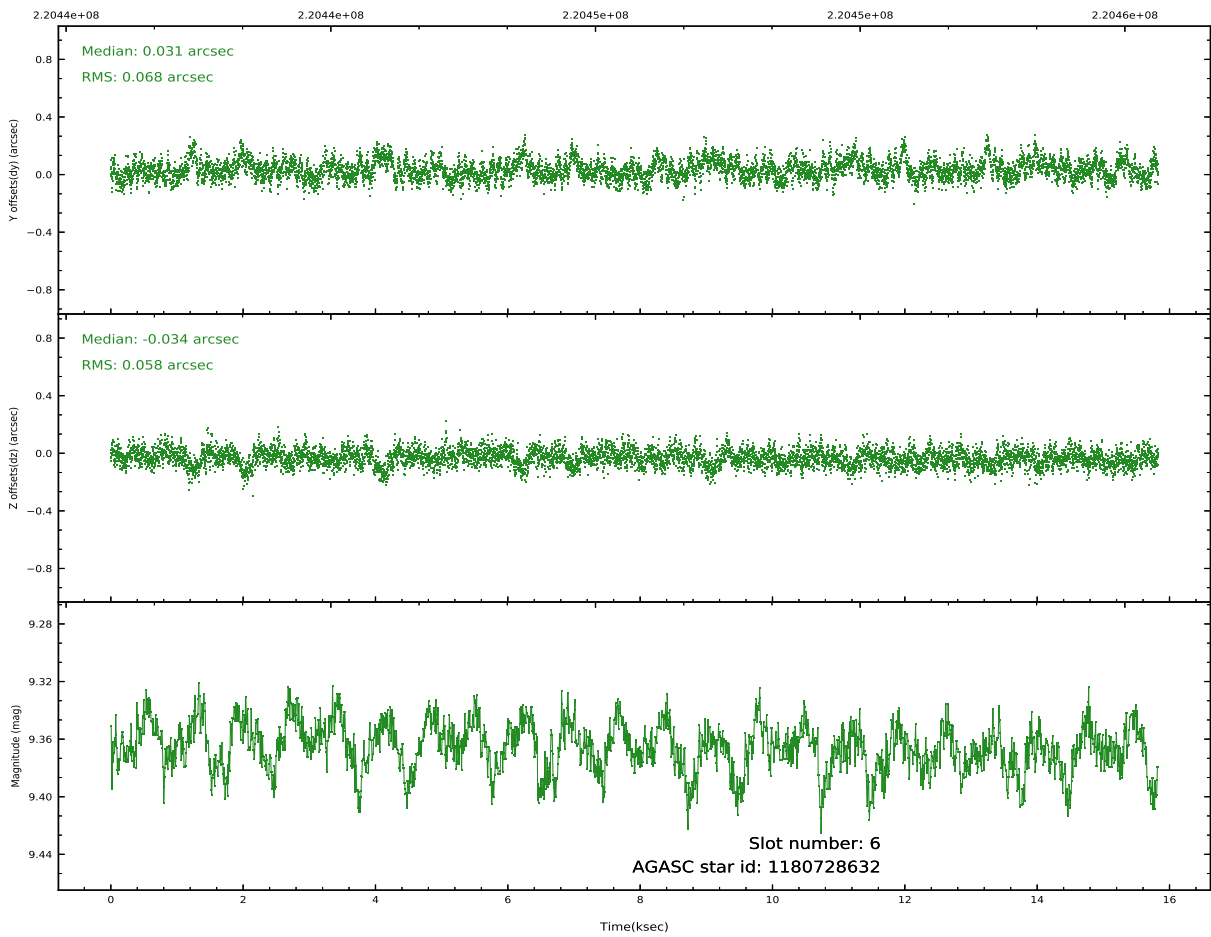
Time (s)



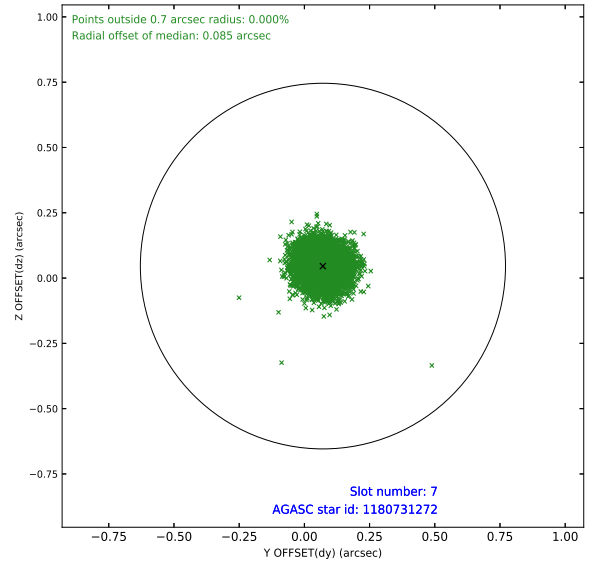
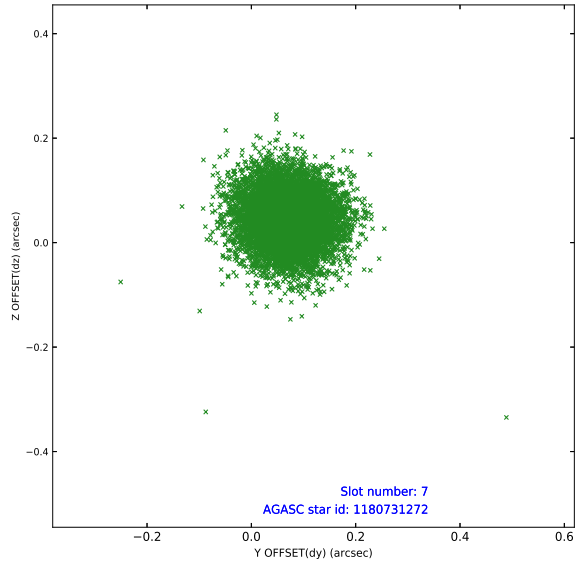
## 2.4.4 Slot 6



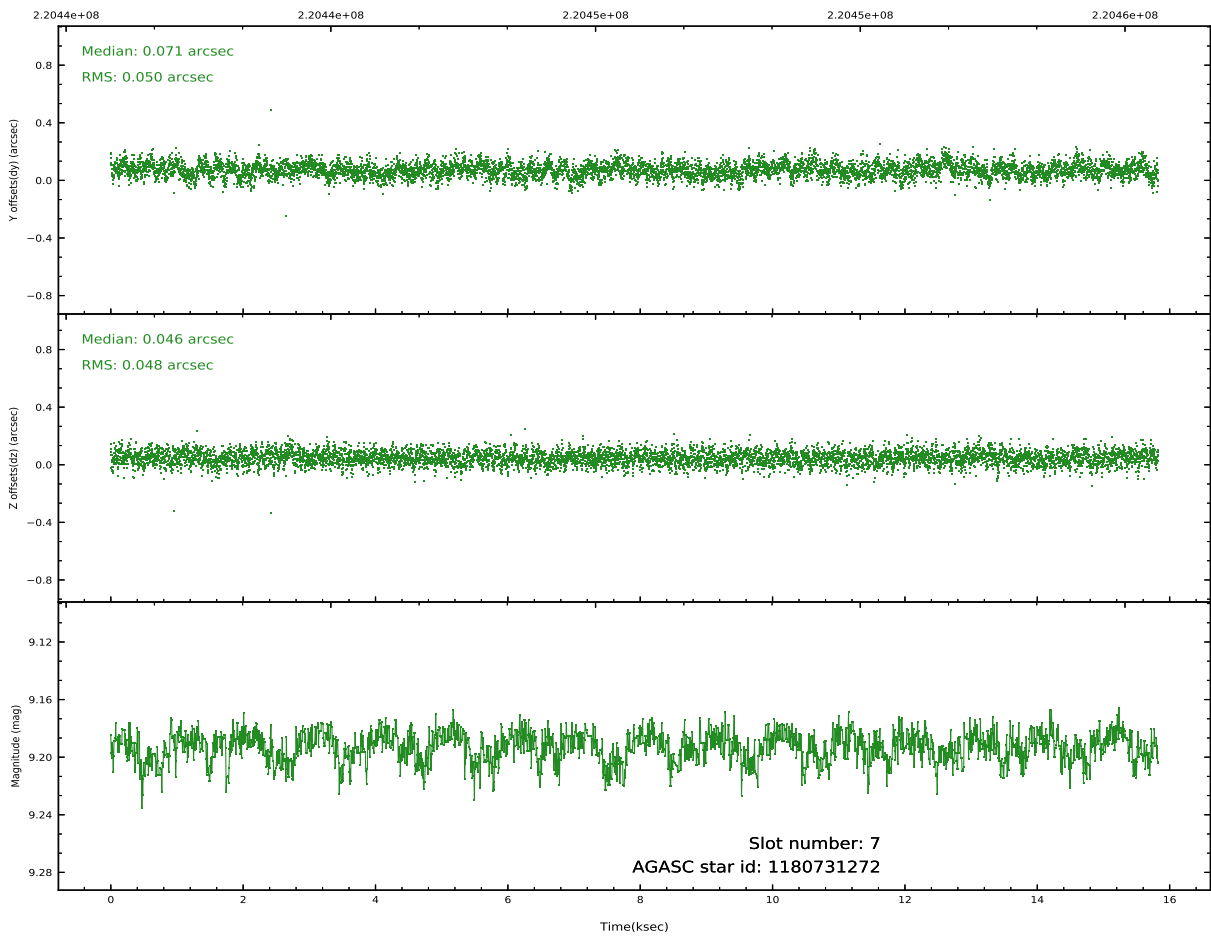
Time (s)



## 2.4.5 Slot 7

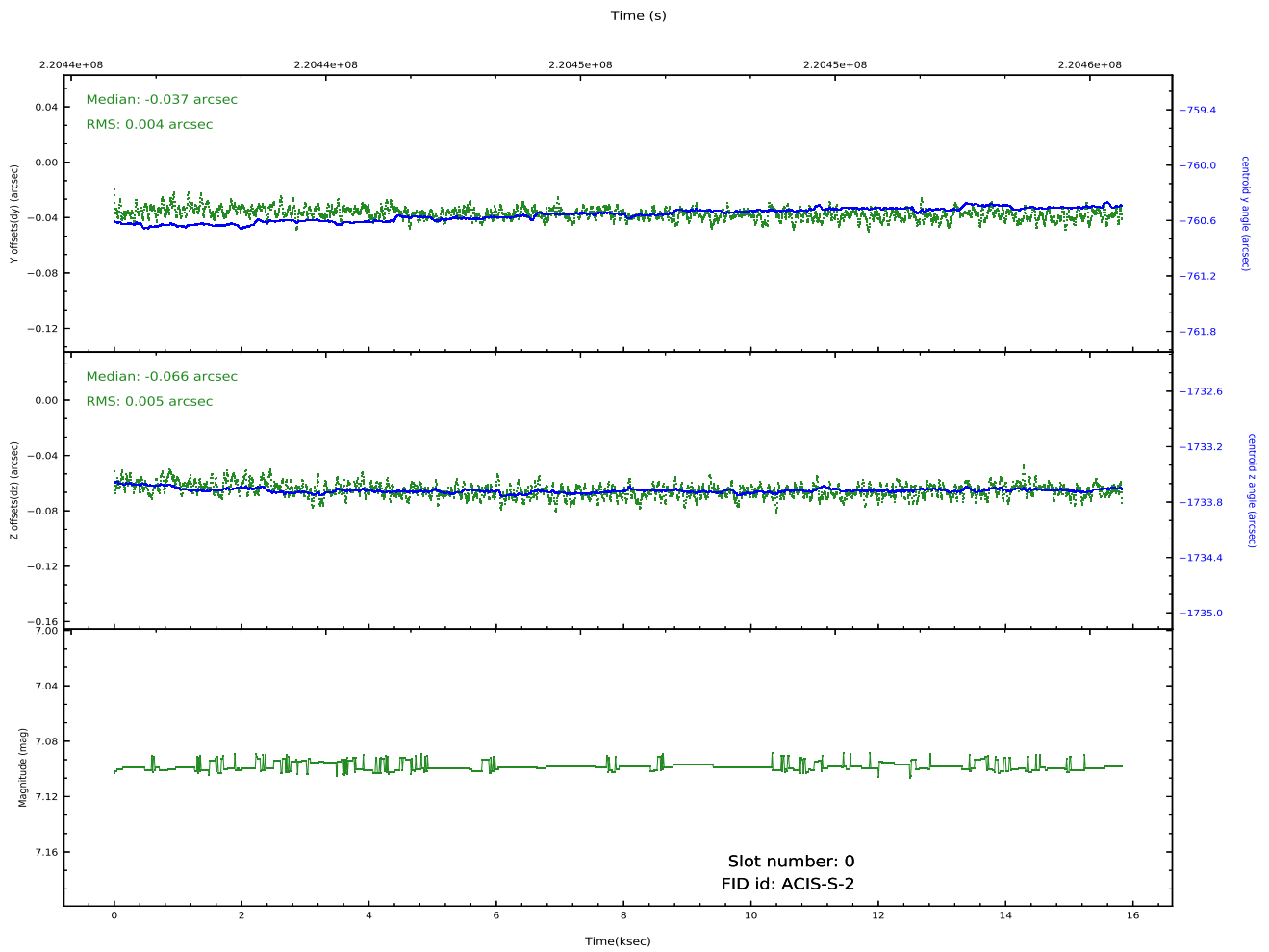
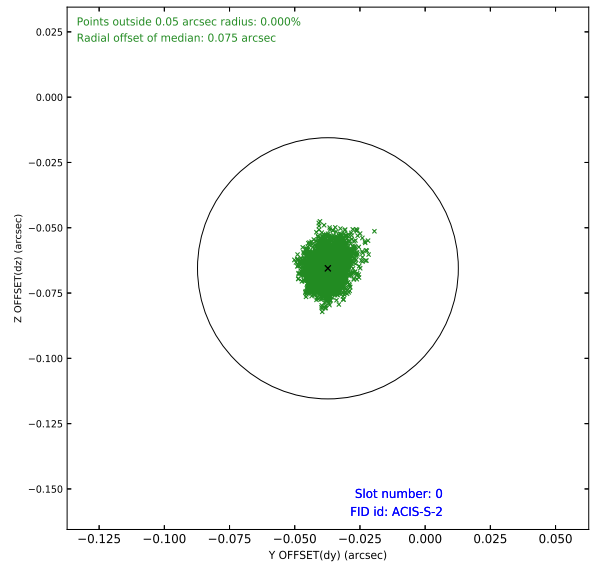
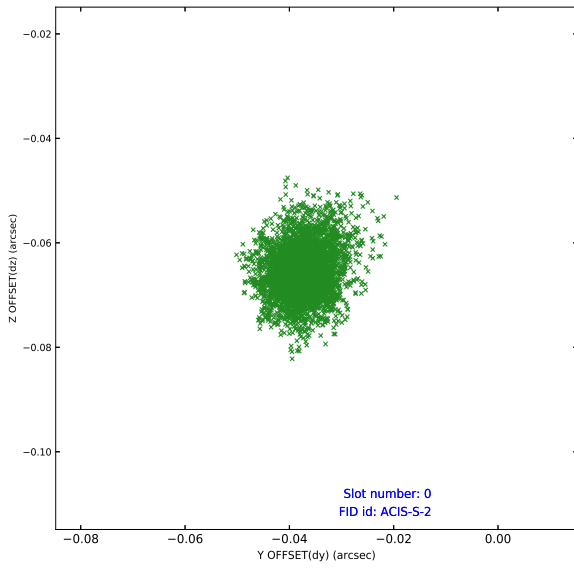


Time (s)

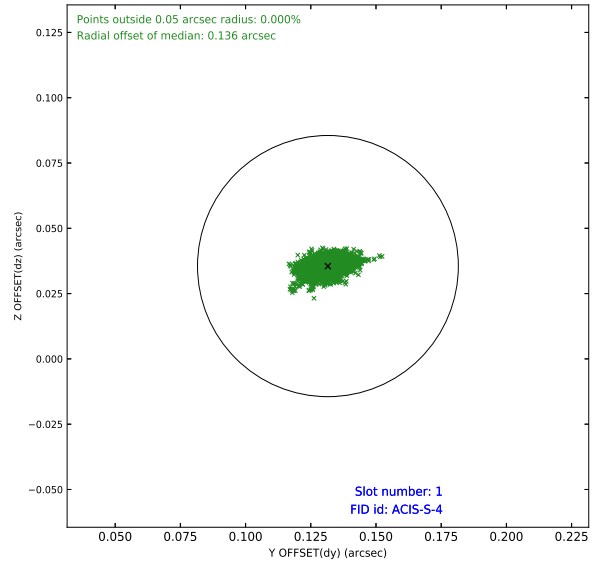
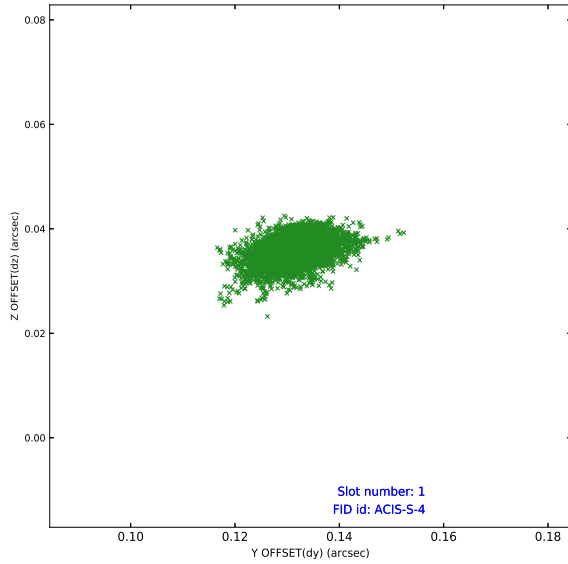


## 2.5 FID Slots

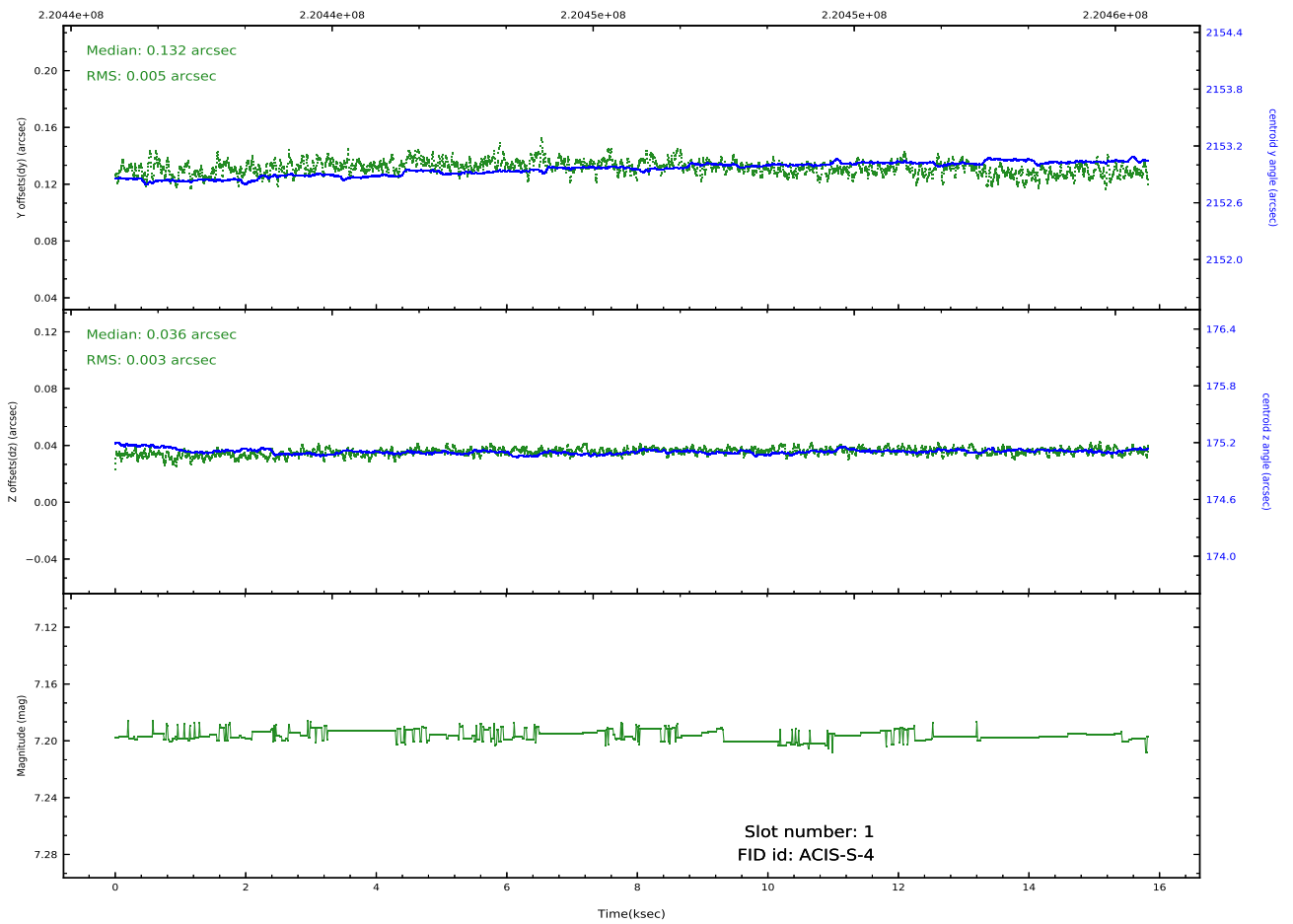
### 2.5.1 Slot 0



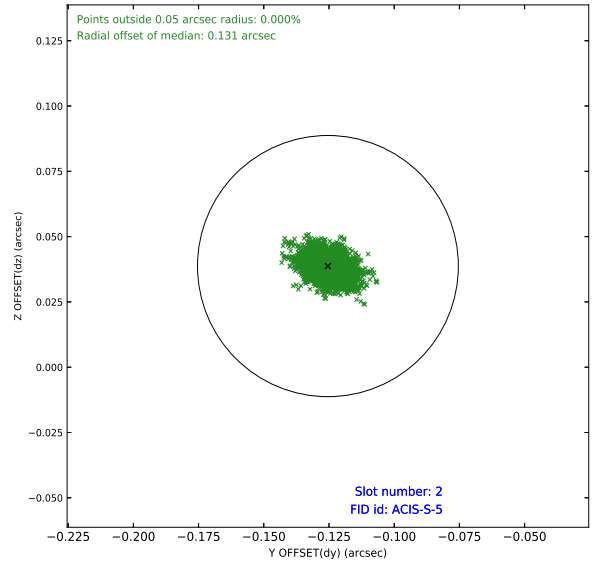
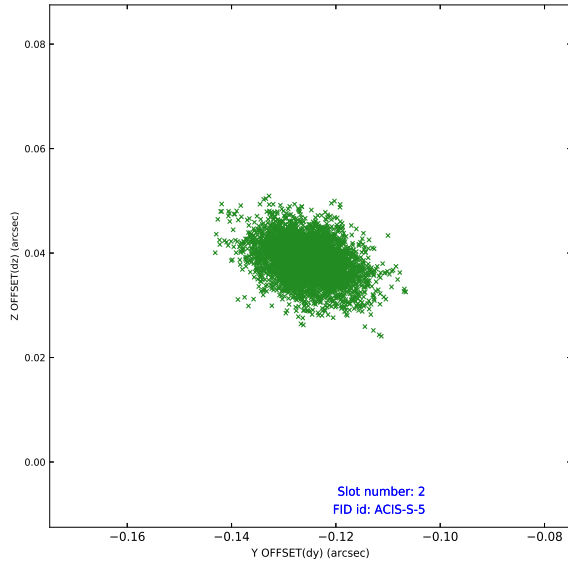
## 2.5.2 Slot 1



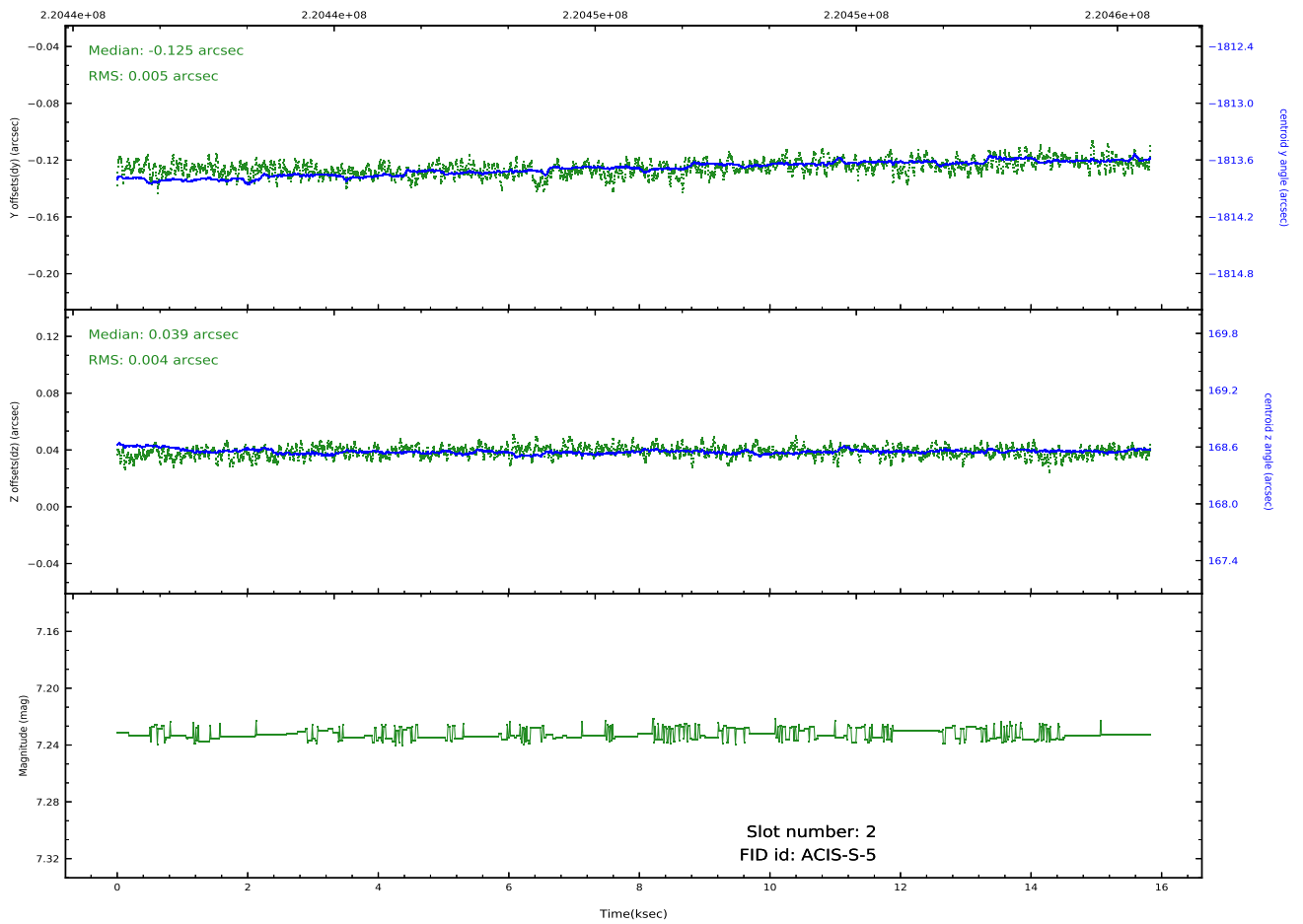
Time (s)



### 2.5.3 Slot 2



Time (s)



# A Summary

## A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2020.10.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	15.11679

## A.2 Comments

Roll preference met.