

# V&V Reference Report

## L2 ASCDS Version : 10.9.1

Observation 4693 - L2 Version 4  
Chandra X-Ray Center

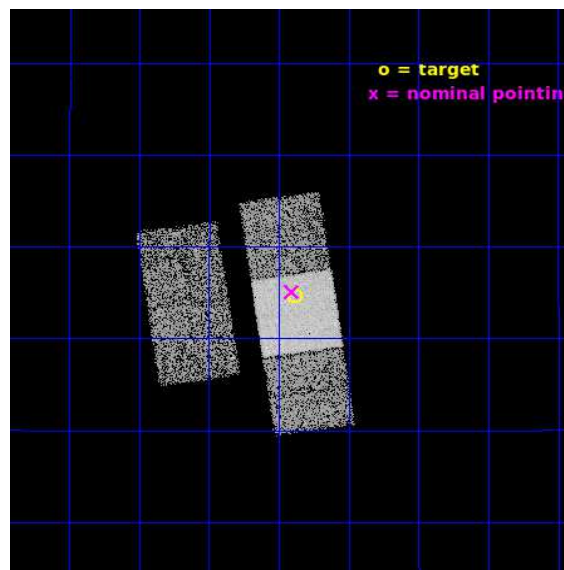
L2 Processing Date : Oct 6 2020

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# 1 Front

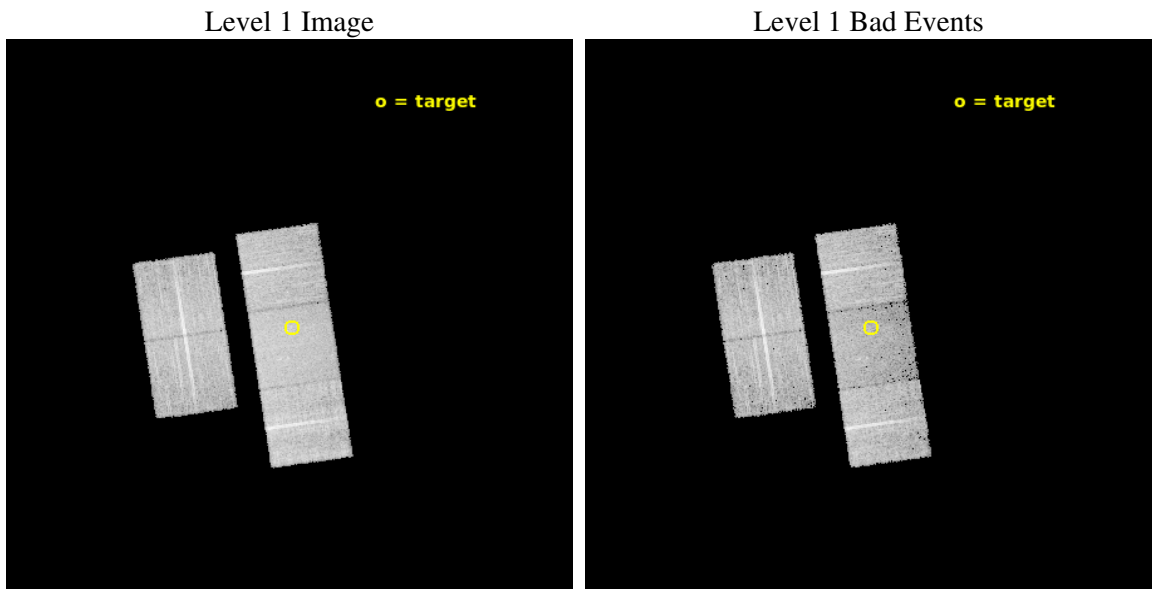
seq_num	600348	Sequence number
obs_id	4693	Observation id
title	Physics of Accretion Flows in Ultra-low Luminosity AGNs: A Mini Survey of a Distance-Limited Sample of Inactive Galaxies	Proposal tit
observer	Dr. Yuichi Terashima	Principal investigator
object	NGC 3412	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	162.720833	Observer's specified target RA [deg]
dec_targ	13.411944	Observer's specified target Dec [deg]
ra_nom	162.72654770705	Nominal RA [deg]
dec_nom	13.418555053256	Nominal Dec [deg]
roll_nom	81.674301078767	Nominal Roll [deg]
revision	4	Processing version of data
ontime	10090.489887059	Sum of GTIs [s]
livetime	9958.6502081737	Livetime [s]
ontime2	10090.325727046	Sum of GTIs [s]
ontime3	10087.266806871	Sum of GTIs [s]
ontime6	10090.448847055	Sum of GTIs [s]
ontime7	10090.489887059	Sum of GTIs [s]
ontime8	10090.366767049	Sum of GTIs [s]
l2events	50972	Number of level 2 events



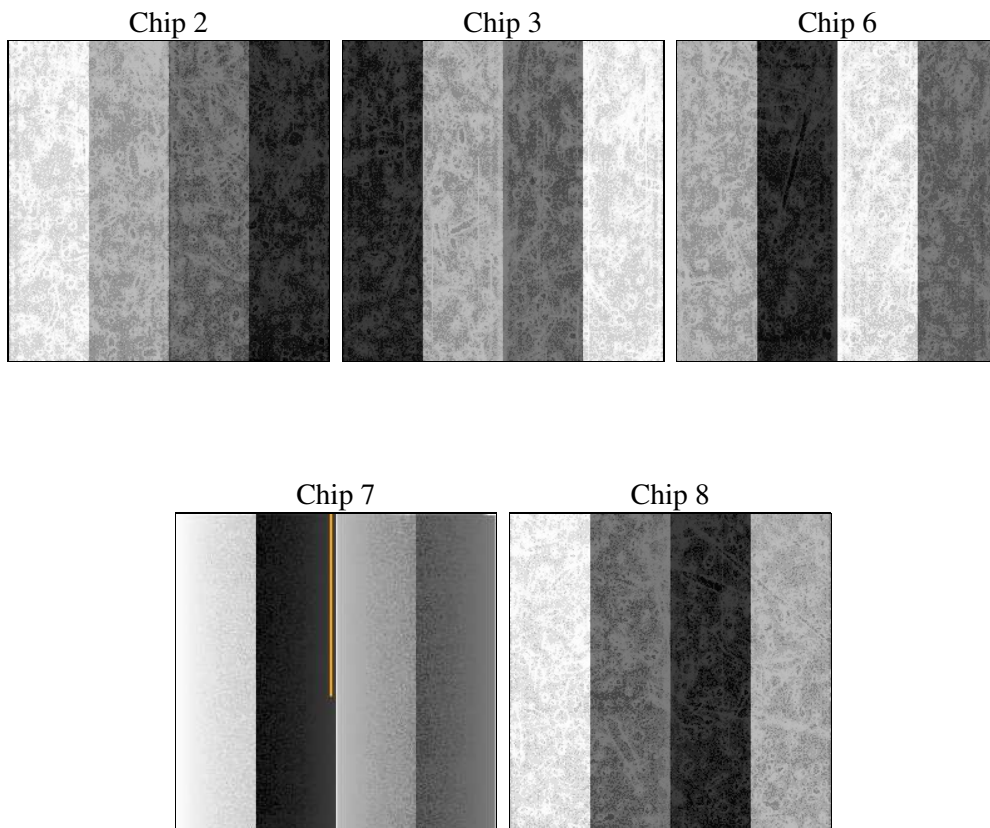
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	3	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	10090.489887059	Sum of GTIs [s]
caldsver	4.9.2	&#160	ontime2	10090.325727046	Sum of GTIs [s]
date	2020-10-06T14:46:19	Date and time of file creation	ontime3	10087.266806871	Sum of GTIs [s]
revision	4	Processing version of data	ontime6	10090.448847055	Sum of GTIs [s]
			ontime7	10090.489887059	Sum of GTIs [s]
			ontime8	10090.366767049	Sum of GTIs [s]
			l1events	332291	Number of level 1 events

### 2.1.4 Events

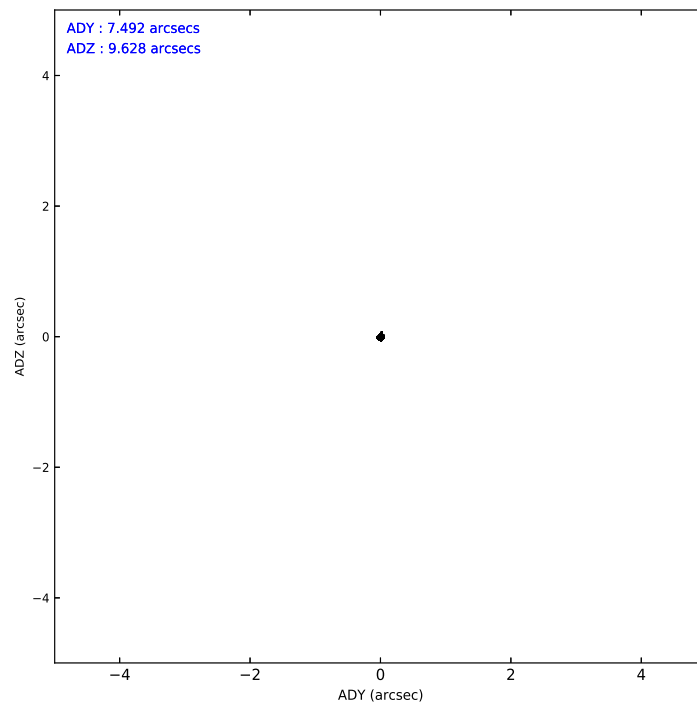
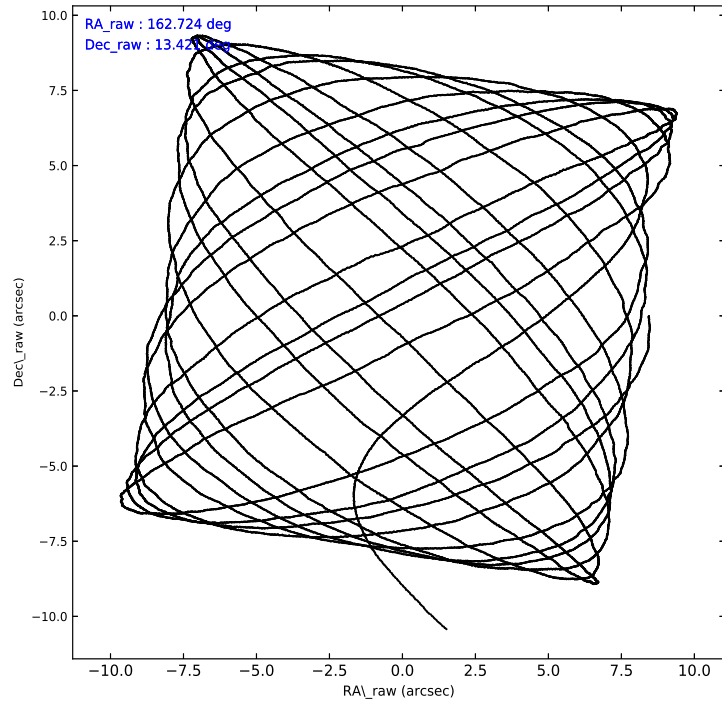
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	63650	59468	62982	69159	77032
rejected events	58010	53883	56637	38190	59346
rejected %	91%	90%	89%	55%	77%

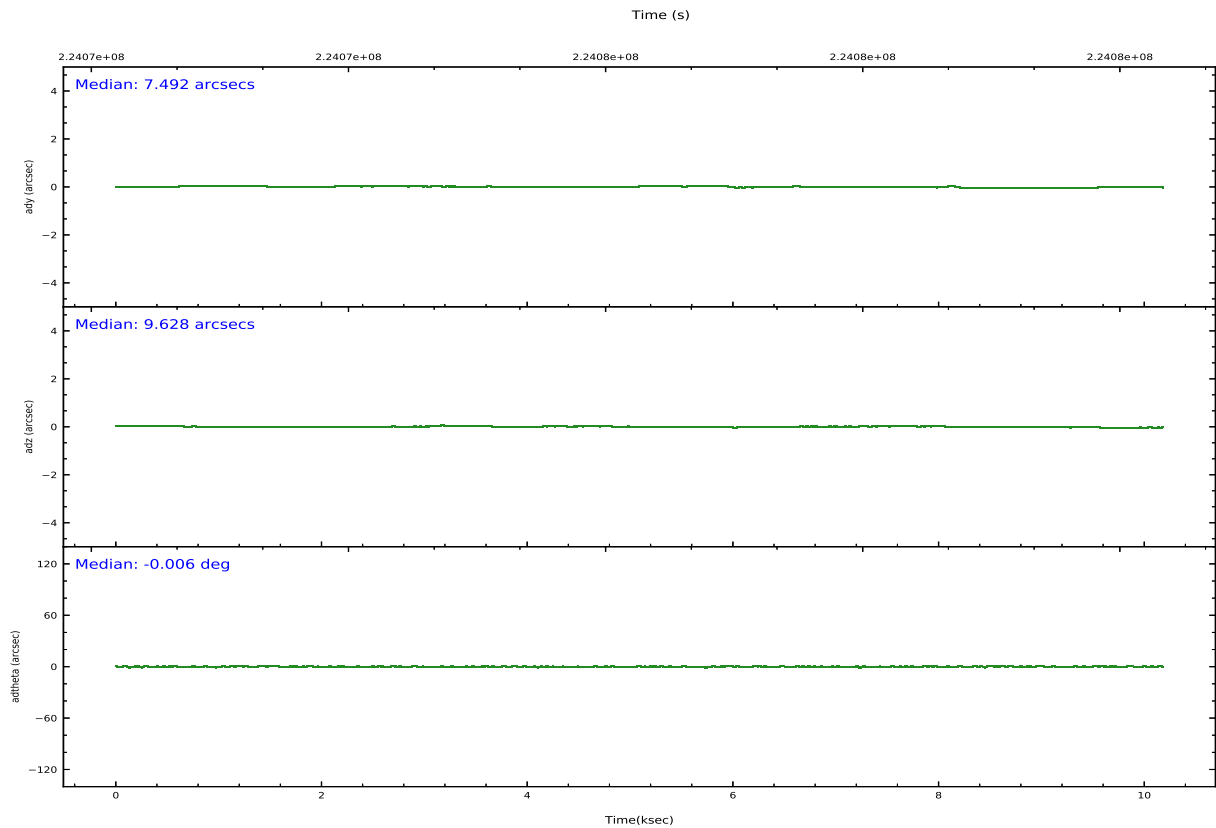
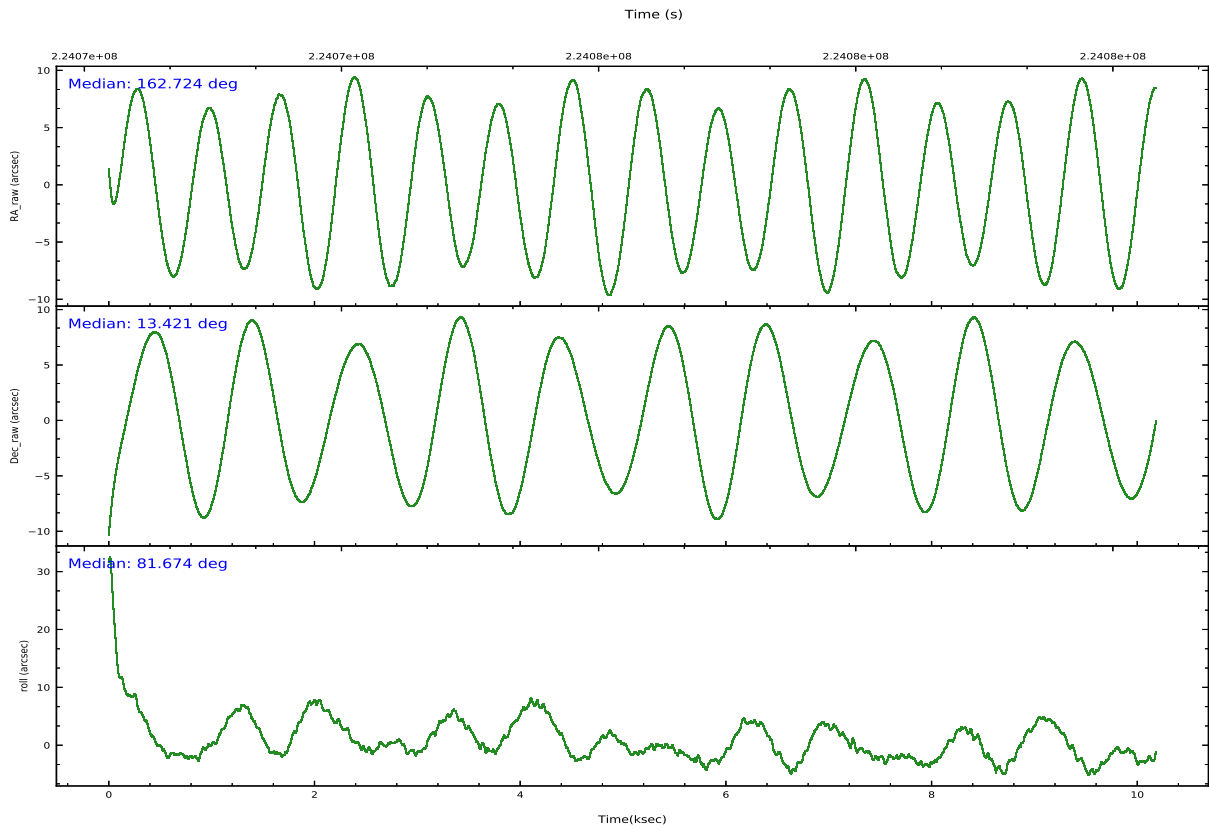
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	1957	1979	2158	2706	5415
	3%	3%	3%	3%	7%
grade 1 events	33	33	29	55	65
	0%	0%	0%	0%	0%
grade 2 events	1285	1172	1421	6242	3807
	2%	1%	2%	9%	4%
grade 3 events	637	628	723	2859	2061
	1%	1%	1%	4%	2%
grade 4 events	675	686	695	2880	1946
	1%	1%	1%	4%	2%
grade 5 events	2131	2402	2435	7182	3416
	3%	4%	3%	10%	4%
grade 6 events	1088	1121	1352	16302	4476
	1%	1%	2%	23%	5%
grade 7 events	55844	51447	54169	30933	55846
	87%	86%	86%	44%	72%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-23678	ACIS-23678	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	162.734667	162.72654770705	Subarray requested	NONE	NONE
[deg] Pointing Dec	13.395946	13.418555053256	Alternating exposures requested	N	N
[deg] Pointing Roll	81.517307	81.674301078767	[s] Primary exposure time	0.000000	3.1
[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)	224070422.184000	224069458.21643			
Observation start date	2005-02-06T09:45:58	2005-02-06T09:30:58			
[s] Observation end time (MET)	224080422.184000	224081560.39198			
Observation end date	2005-02-06T12:32:38	2005-02-06T12:52:40			
Read mode	TIMED	TIMED			

## 2.3 Aspect





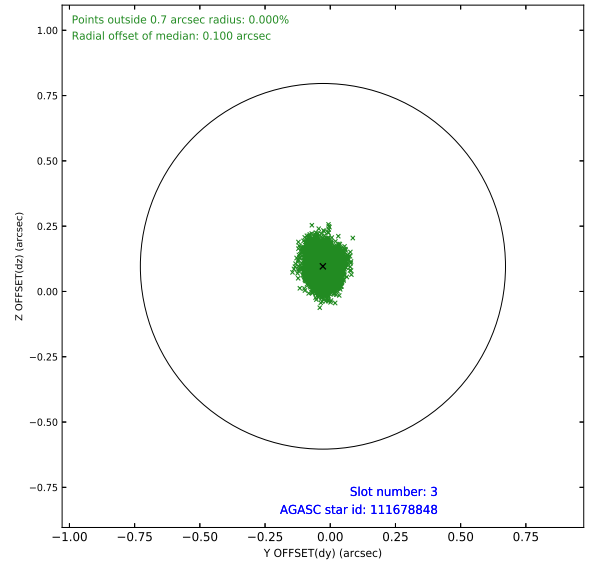
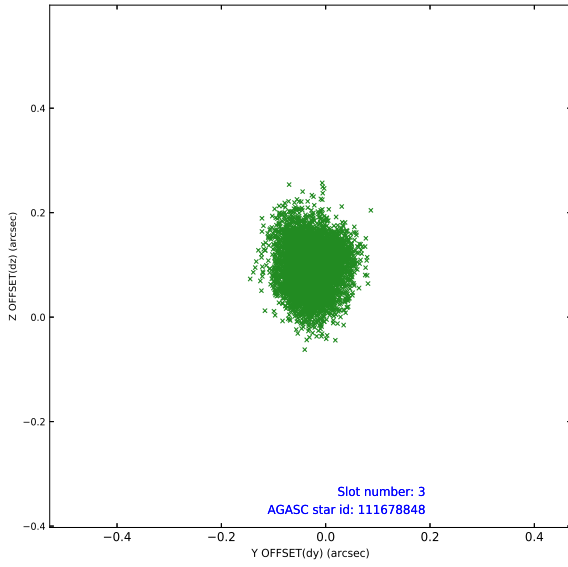
### Slot Statistics

slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.10	2483	1.000	-0.070	-0.072	0.007	0.011	0.000000	0.000000	-760.27	-1730
1	FID		ACIS-S-4	7.21	2483	1.000	0.159	0.053	0.005	0.010	0.000000	0.000000	2152.94	177
2	FID		ACIS-S-5	7.24	2484	1.000	-0.120	0.027	0.006	0.010	0.000000	0.000000	-1812.56	171
3	GUIDE	used	111678848	7.69	4966	1.000	-0.028	0.096	0.060	0.096	162.937676	13.566004	710.76	-611
4	GUIDE	used	111680696	7.52	4969	1.000	-0.032	0.042	0.057	0.092	163.342710	13.118652	-669.94	-2254
5	GUIDE	used	111682048	8.85	4968	1.000	0.061	-0.080	0.075	0.124	162.332050	12.842718	-2177.39	1104
6	GUIDE	used	111684072	8.39	4968	1.000	0.071	-0.146	0.059	0.095	162.537547	12.809514	-2190.12	373
7	GUIDE	used	111678288	8.94	4965	1.000	-0.069	0.093	0.093	0.145	163.343524	12.746286	-1995.43	-2458

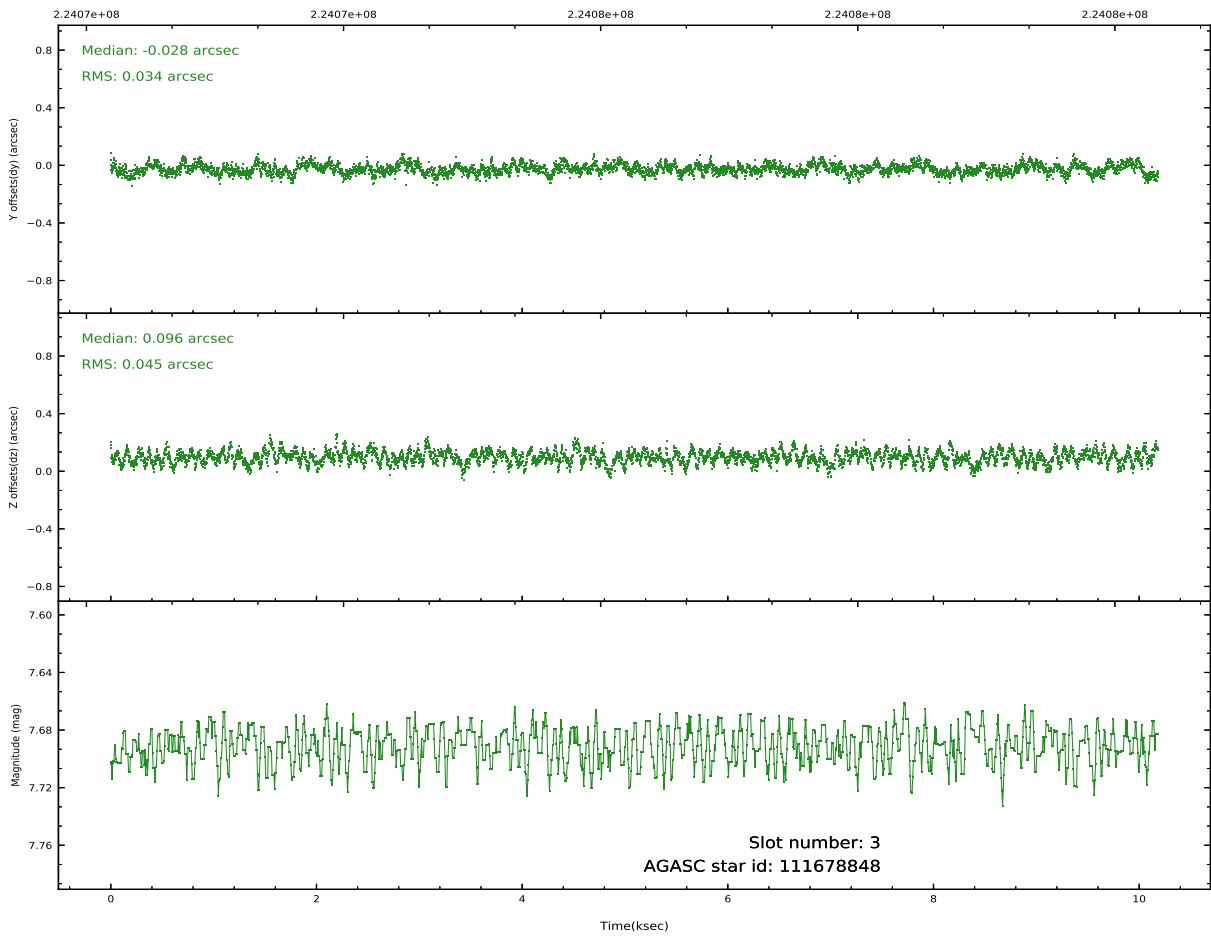
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## 2.4 Star Slots

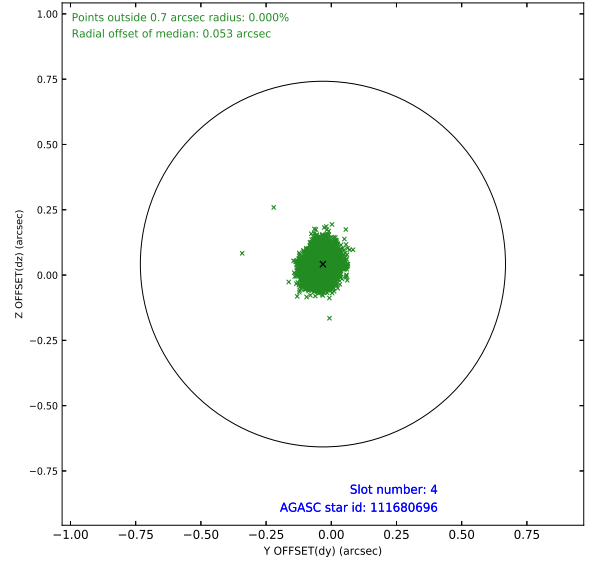
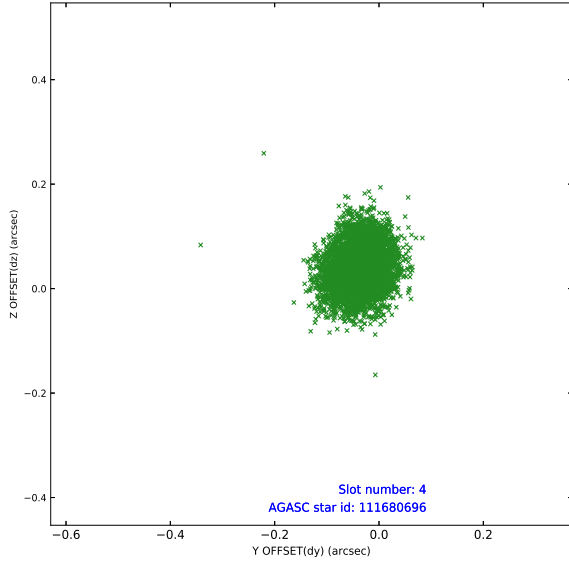
### 2.4.1 Slot 3



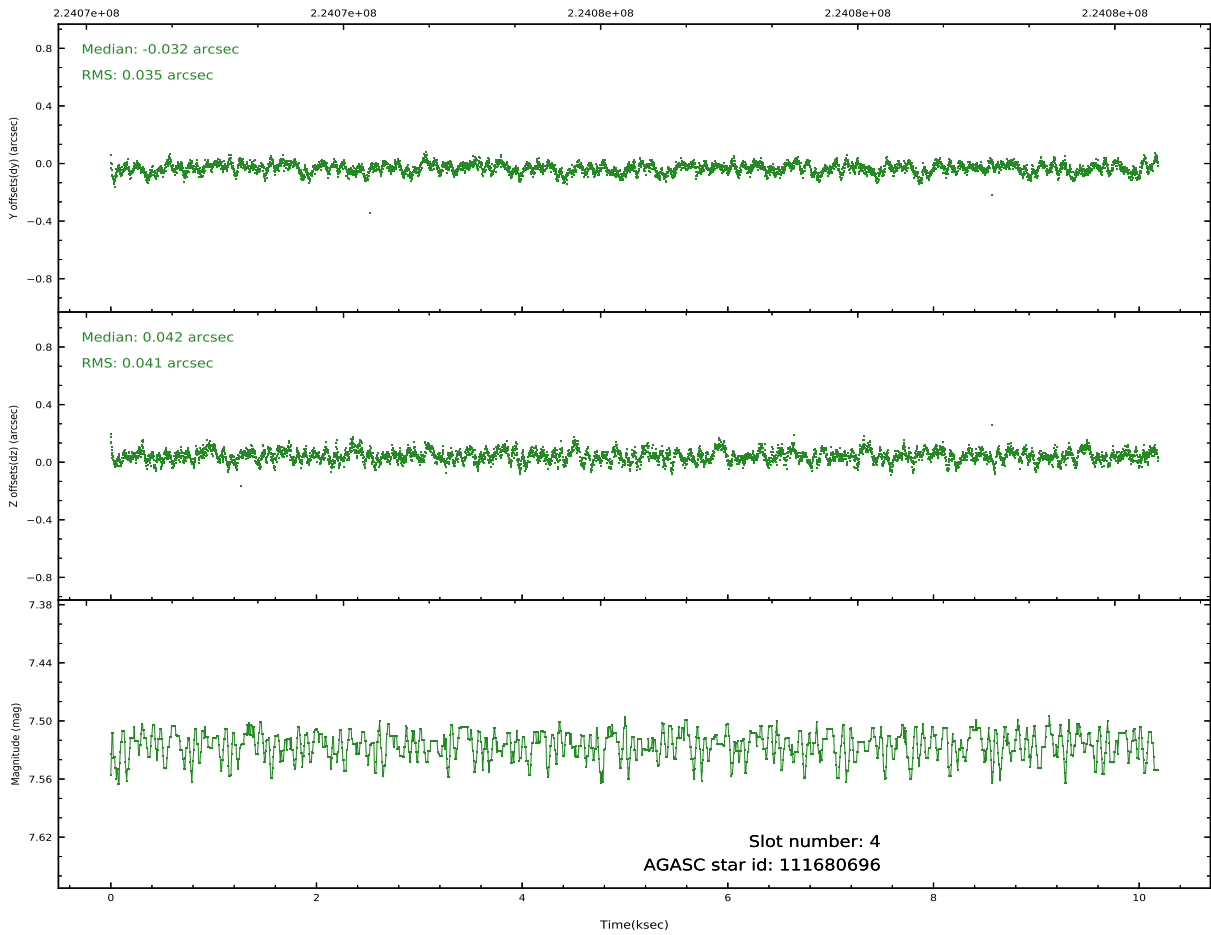
Time (s)



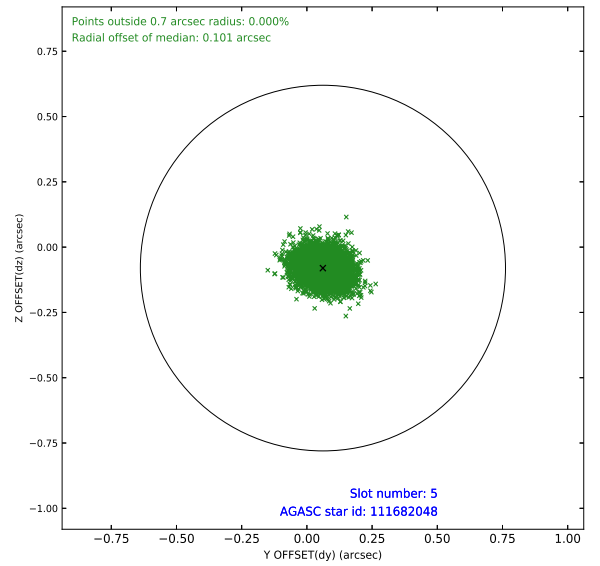
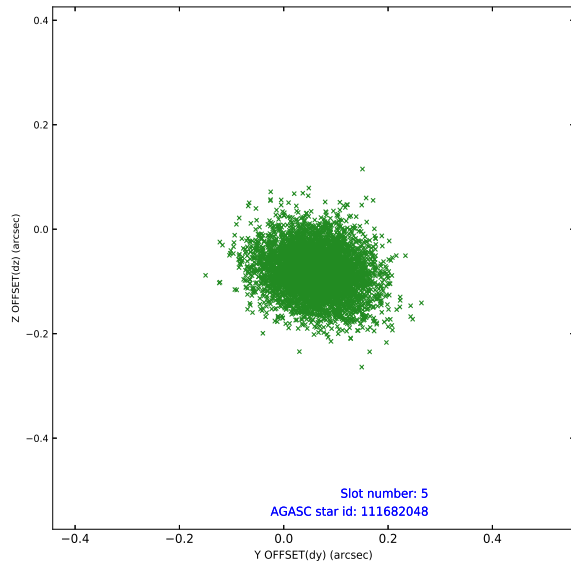
## 2.4.2 Slot 4



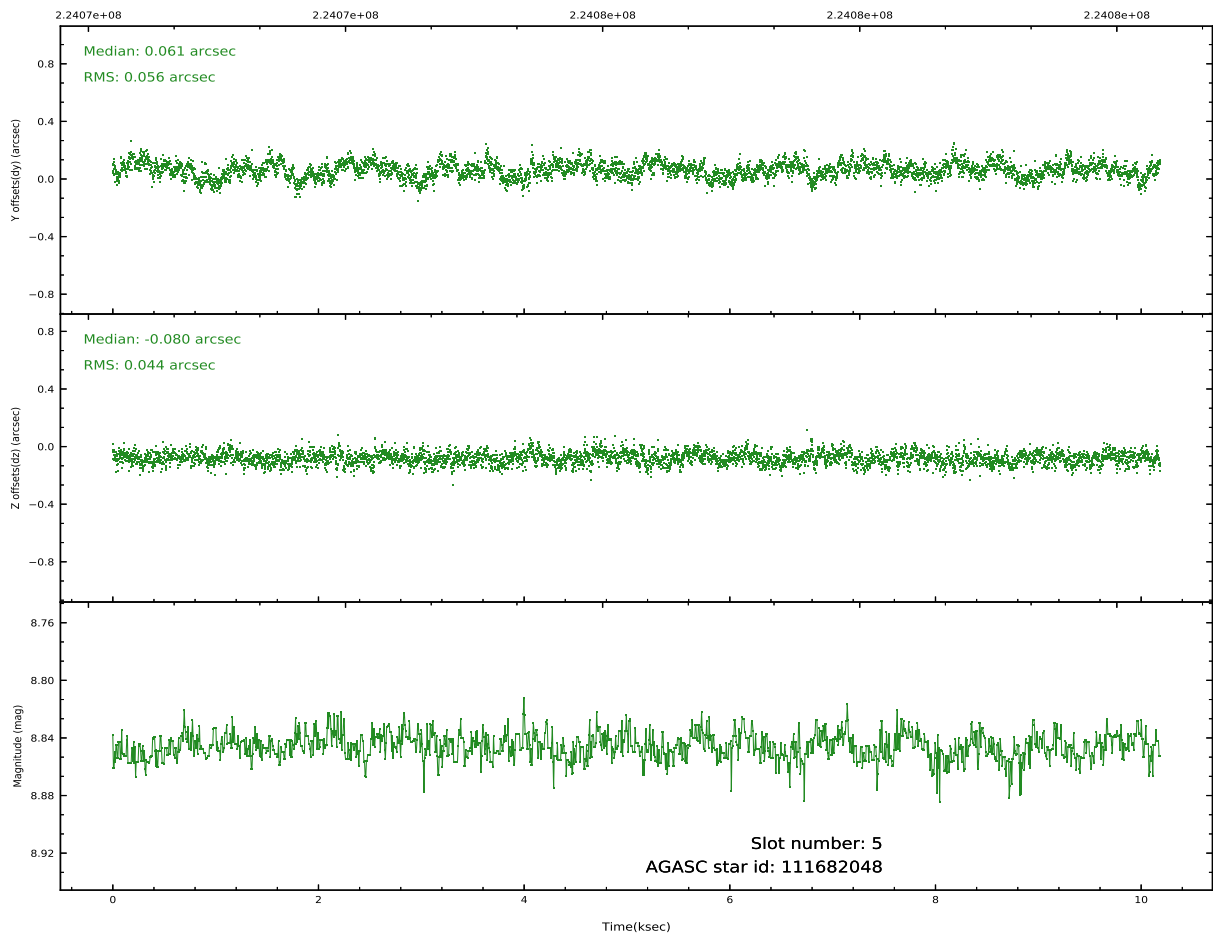
Time (s)



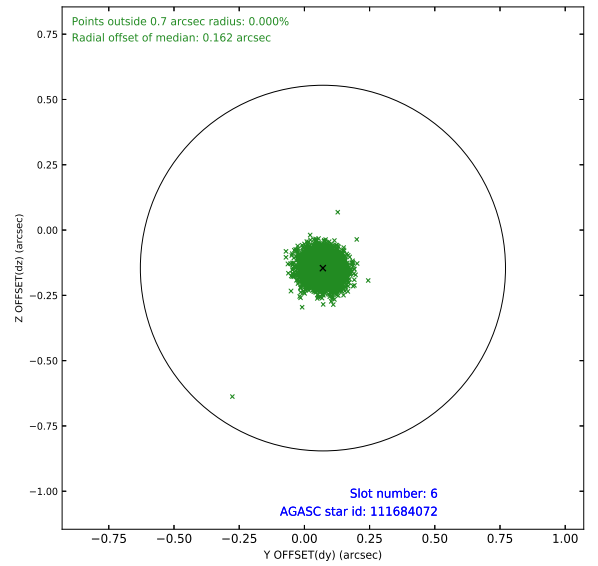
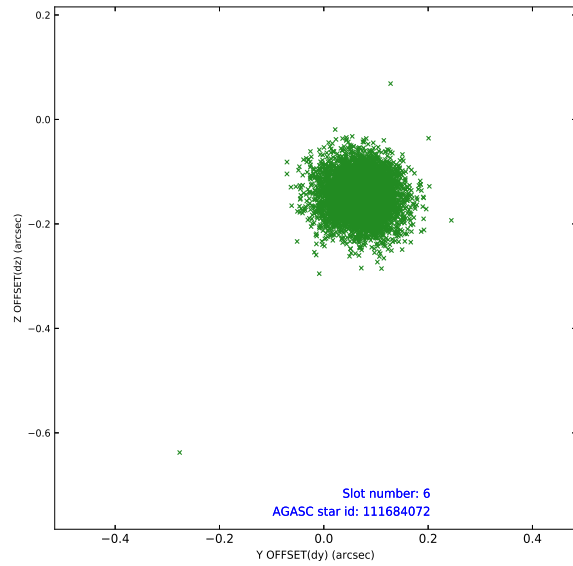
### 2.4.3 Slot 5



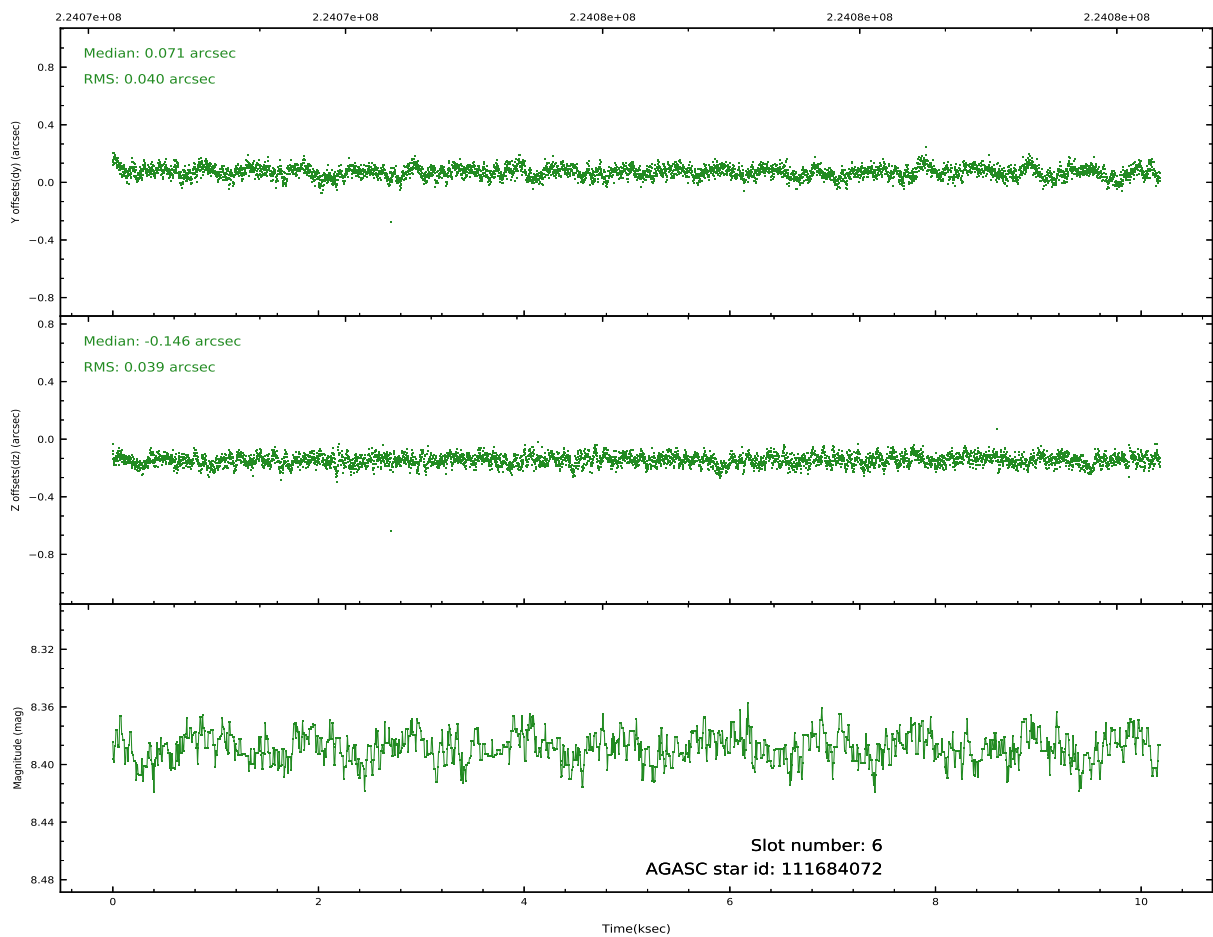
Time (s)



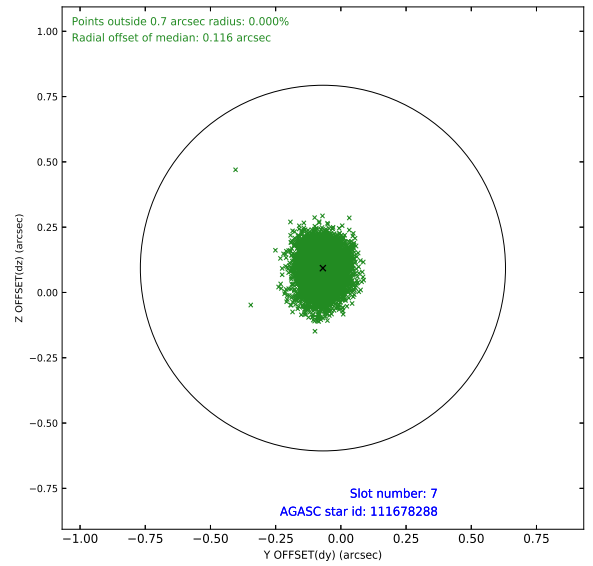
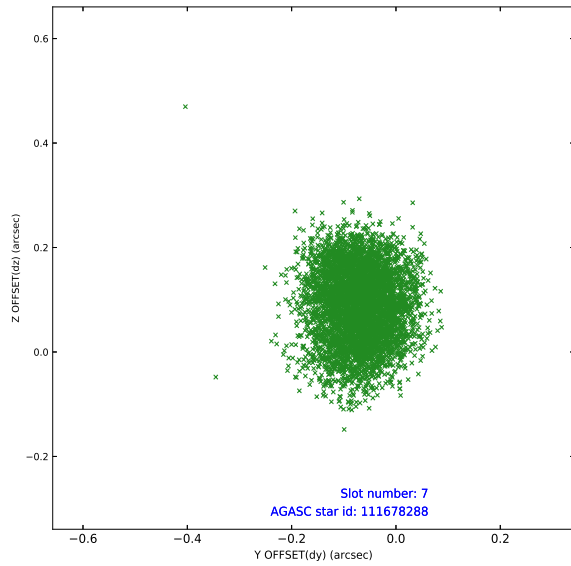
## 2.4.4 Slot 6



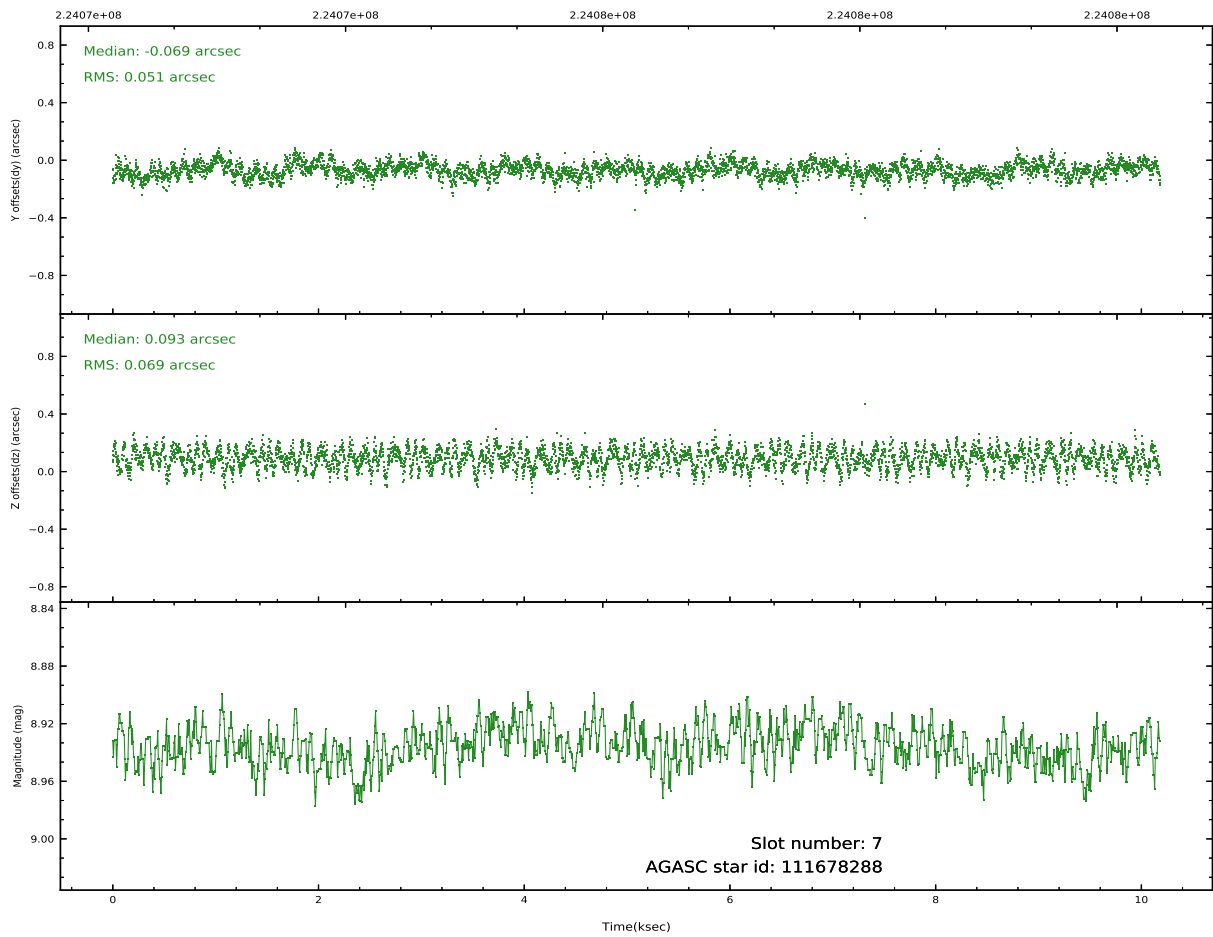
Time (s)



## 2.4.5 Slot 7

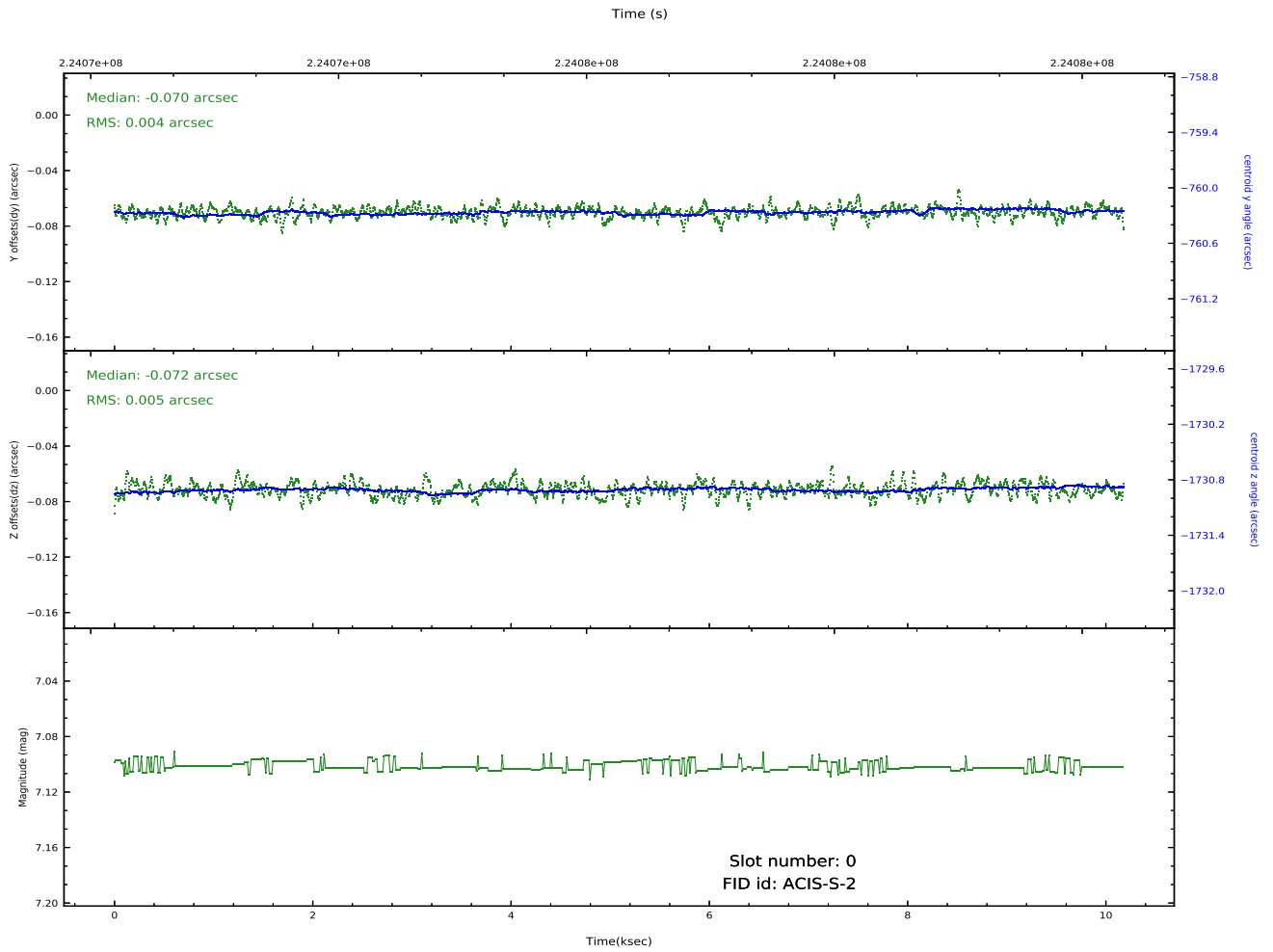
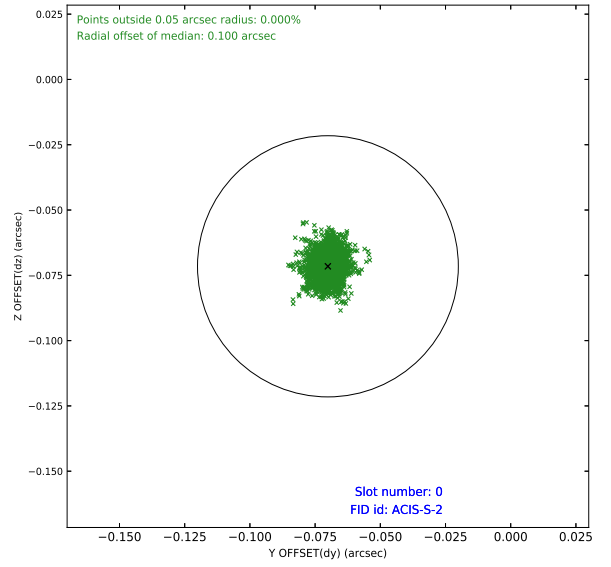
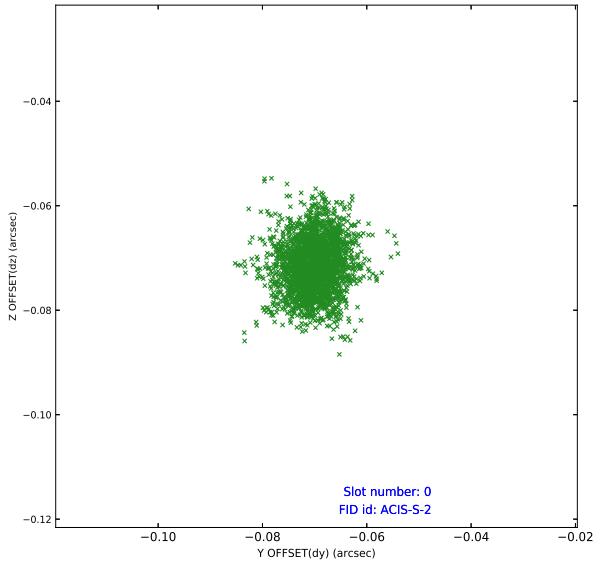


Time (s)

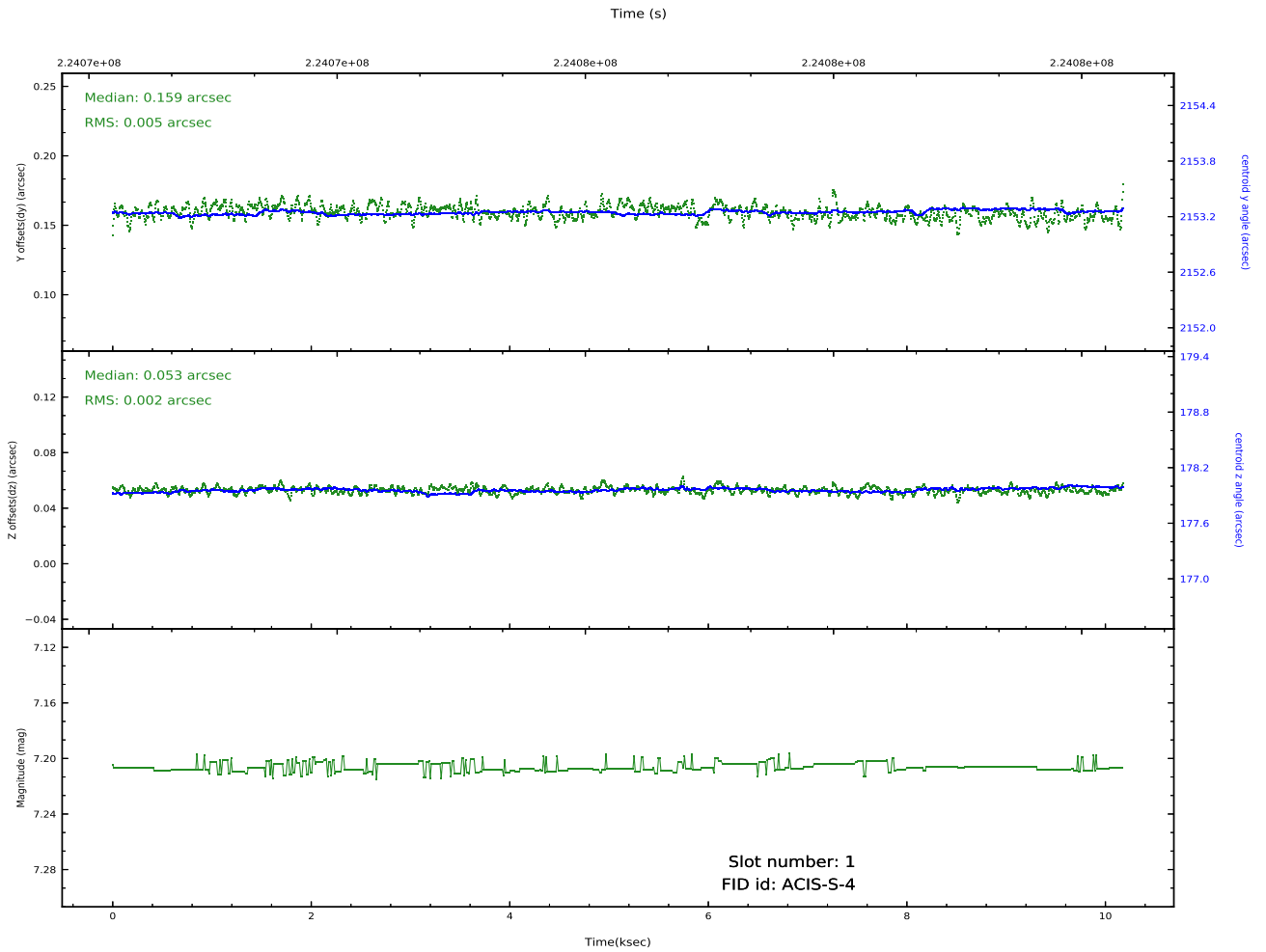
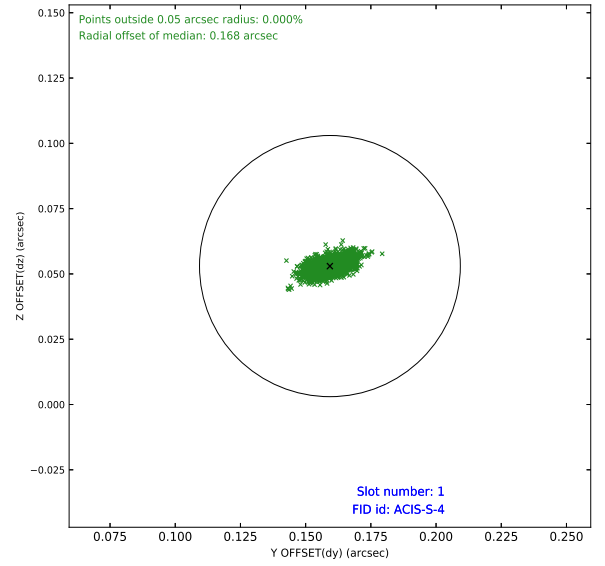
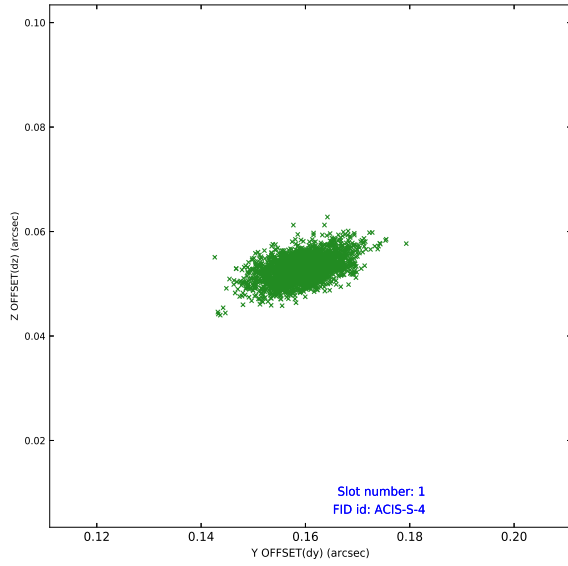


## 2.5 FID Slots

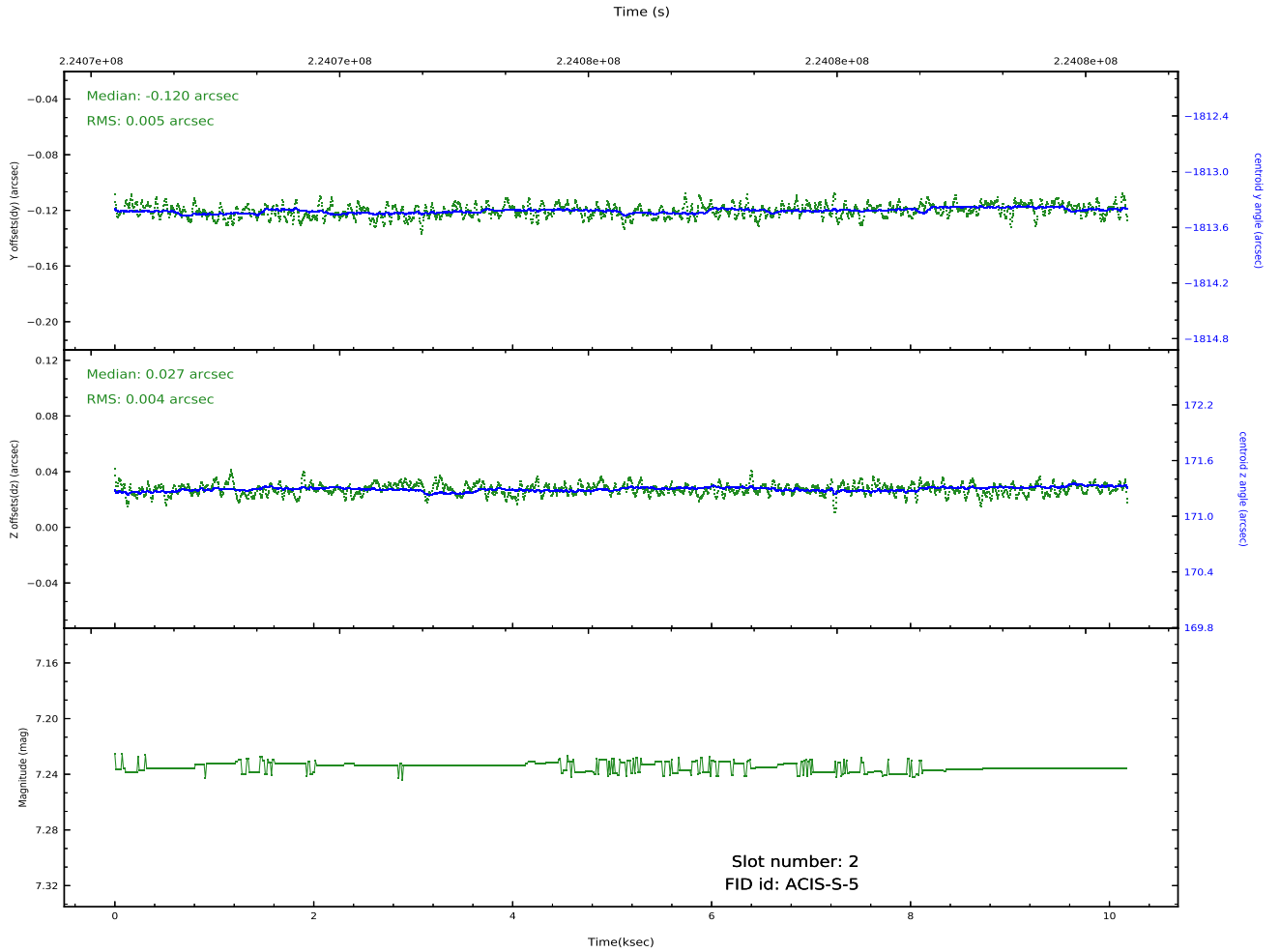
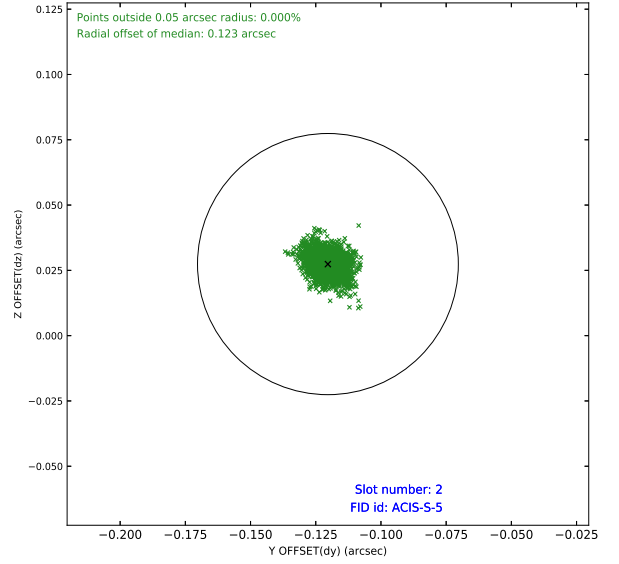
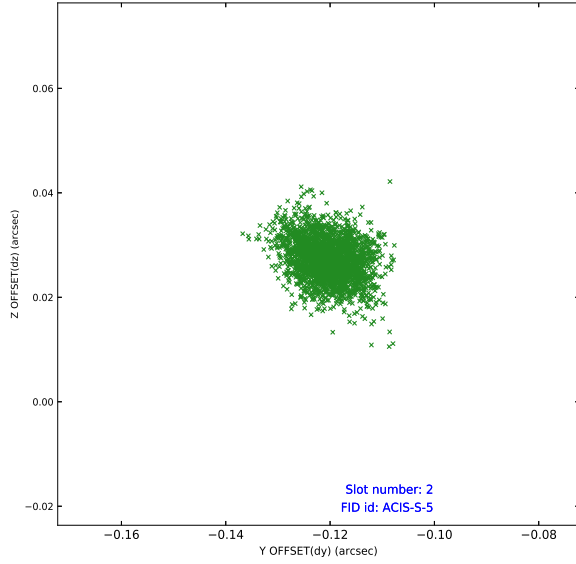
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



# 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	10.09049

## A.2 Comments