

# V&V Reference Report

## L2 ASCDS Version : 10.9.1

Observation 4716 - L2 Version 4  
Chandra X-Ray Center

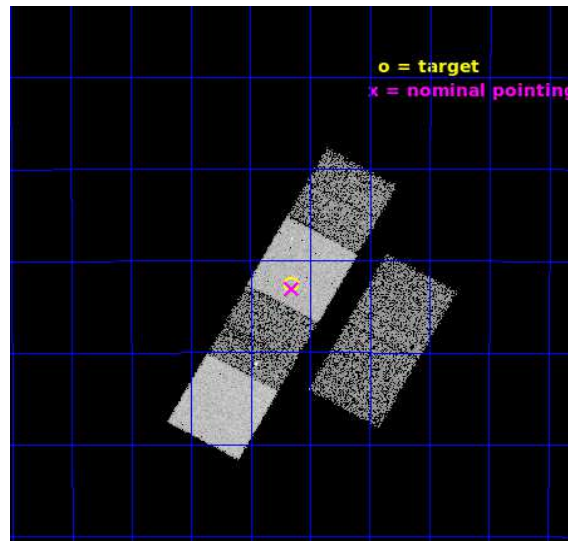
L2 Processing Date : Oct 5 2020

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# 1 Front

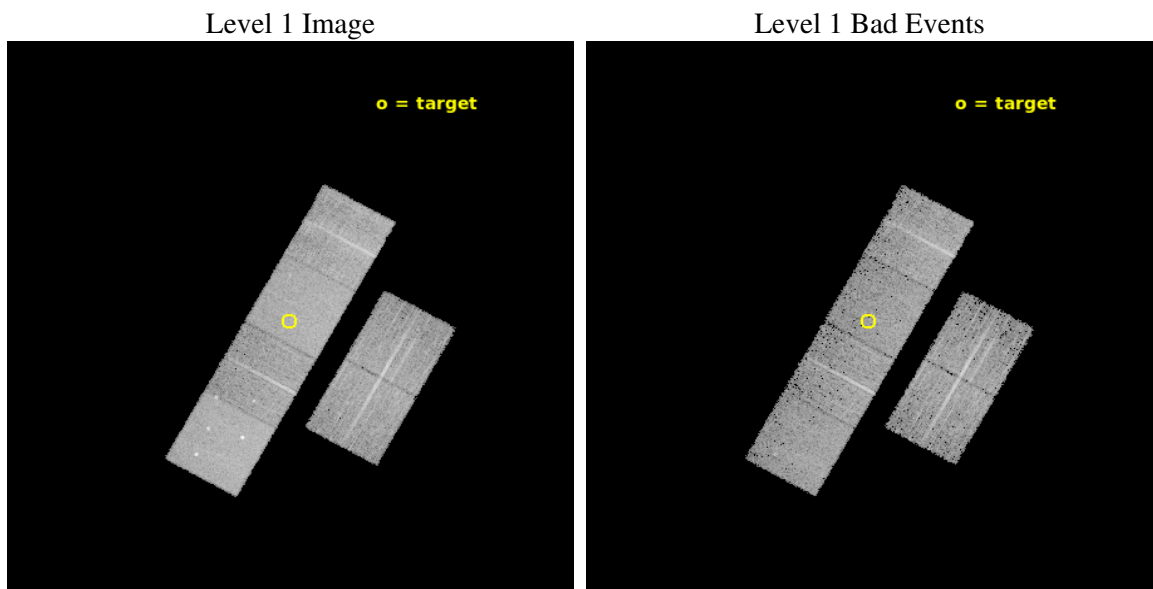
seq_num	600371	Sequence number
obs_id	4716	Observation id
title	Using the Sculptor Dwarf Spheroidal Galaxy to Constrain X-ray Binary Production in Population II	Proposal title
observer	Thomas Maccarone	Principal investigator
object	SCULPTOR DWARF SPHEROIDAL	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	15.039167	Observer's specified target RA [deg]
dec_targ	-33.708889	Observer's specified target Dec [deg]
ra_nom	15.038315038747	Nominal RA [deg]
dec_nom	-33.717603782175	Nominal Dec [deg]
roll_nom	299.09651660919	Nominal Roll [deg]
revision	4	Processing version of data
ontime	6091.3560730219	Sum of GTIs [s]
livetime	6014.223654651	Livetime [s]
ontime2	6088.1561427414	Sum of GTIs [s]
ontime3	6087.9919528365	Sum of GTIs [s]
ontime5	6091.3150330186	Sum of GTIs [s]
ontime6	6091.2739930153	Sum of GTIs [s]
ontime7	6091.3560730219	Sum of GTIs [s]
ontime8	6091.1919130385	Sum of GTIs [s]
l2events	75940	Number of level 2 events



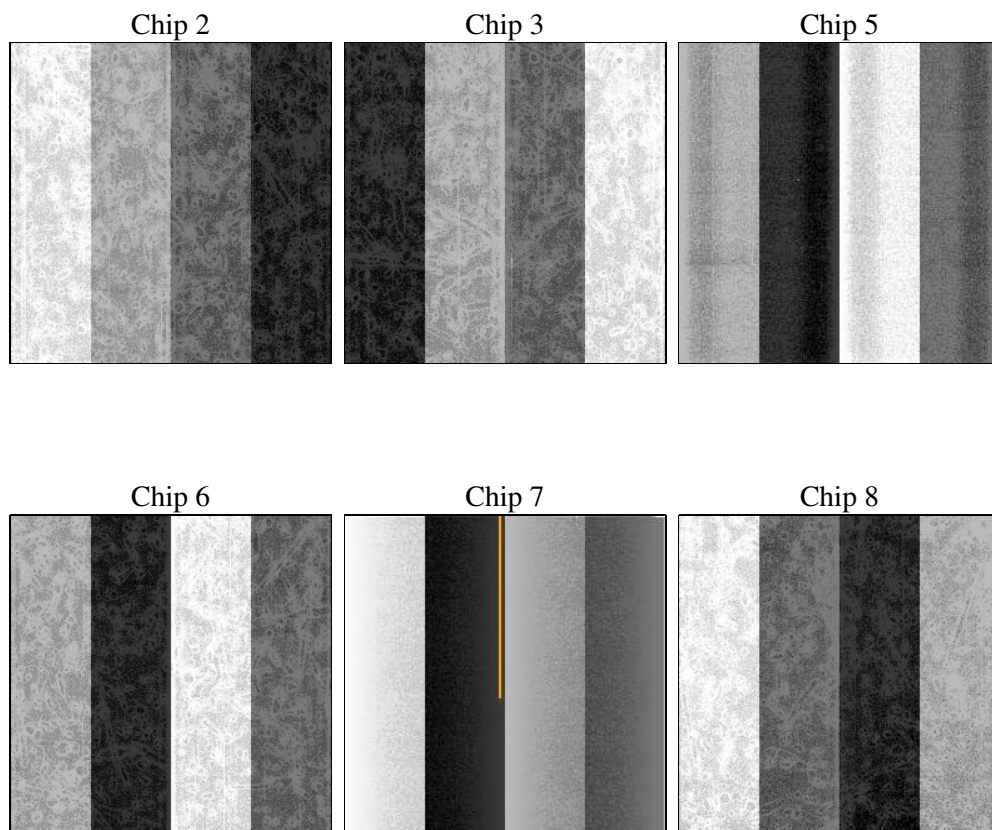
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	6000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	6091.3560730219	Sum of GTIs [s]
caldsver	4.9.2	&#160	ontime2	6088.1561427414	Sum of GTIs [s]
date	2020-10-05T17:56:25	Date and time of file creation	ontime3	6087.9919528365	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	6091.3150330186	Sum of GTIs [s]
			ontime6	6091.2739930153	Sum of GTIs [s]
			ontime7	6091.3560730219	Sum of GTIs [s]
			ontime8	6091.1919130385	Sum of GTIs [s]
			l1events	338112	Number of level 1 events

### 2.1.4 Events

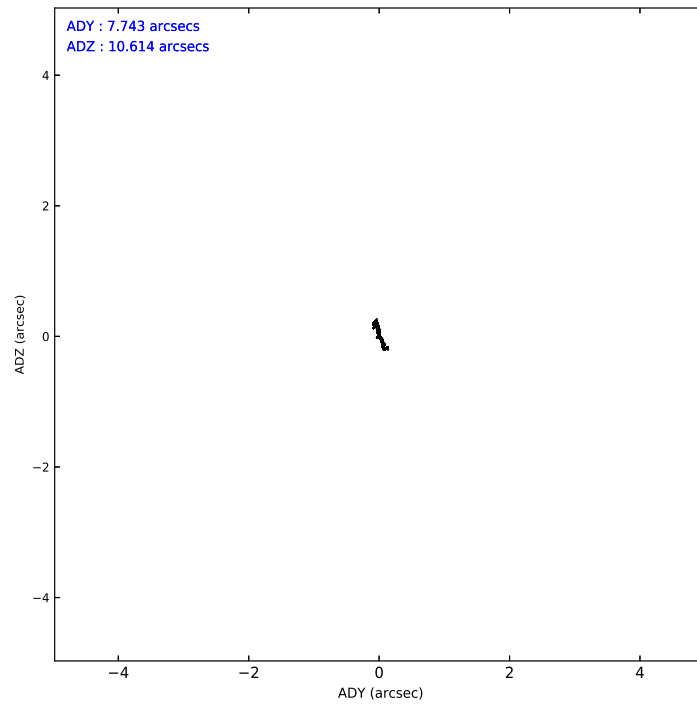
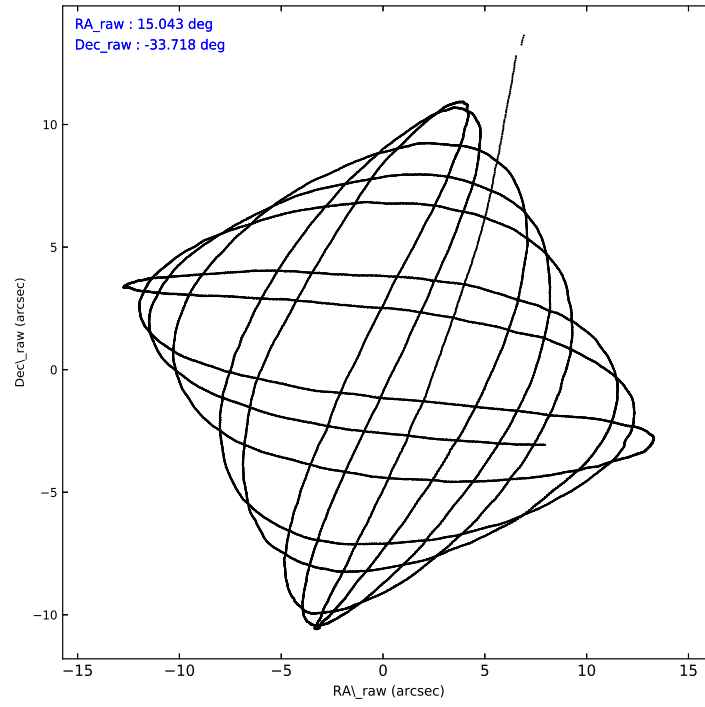
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	48795	46356	71506	47440	63453	60562	grade 0 events	2554	2308	4295	2400	2307	3956
rejected events	43093	40888	38067	41534	37181	47314		5%	4%	6%	5%	3%	6%
rejected %	88%	88%	53%	87%	58%	78%	grade 1 events	27	26	204	18	58	43
								0%	0%	0%	0%	0%	0%
							grade 2 events	1197	1031	9572	1221	5194	3058
								2%	2%	13%	2%	8%	5%
							grade 3 events	527	533	1266	576	2304	1372
								1%	1%	1%	1%	3%	2%
							grade 4 events	536	575	1224	540	2283	1269
								1%	1%	1%	1%	3%	2%
							grade 5 events	1880	2045	5340	2198	5979	2805
								3%	4%	7%	4%	9%	4%
							grade 6 events	896	1027	17125	1175	14212	3602
								1%	2%	23%	2%	22%	5%
							grade 7 events	41178	38811	32480	39312	31116	44457
								84%	83%	45%	82%	49%	73%

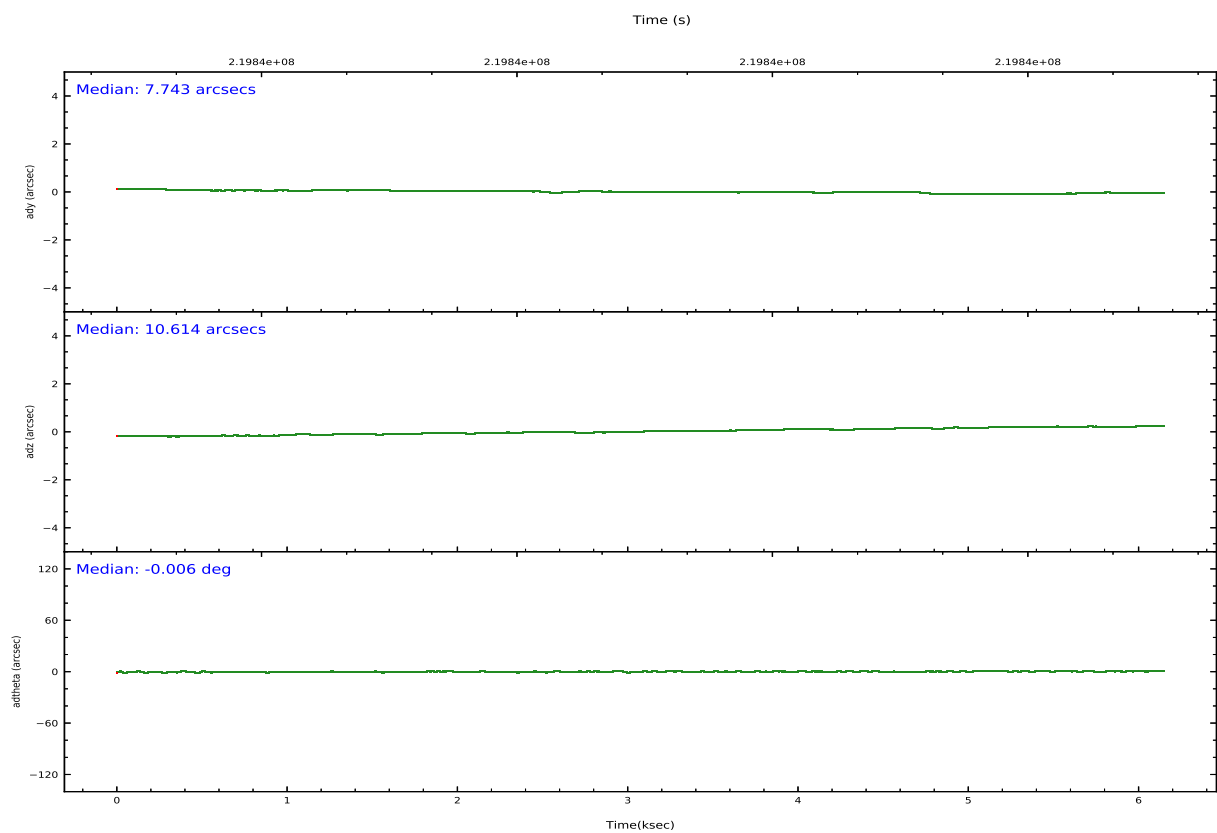
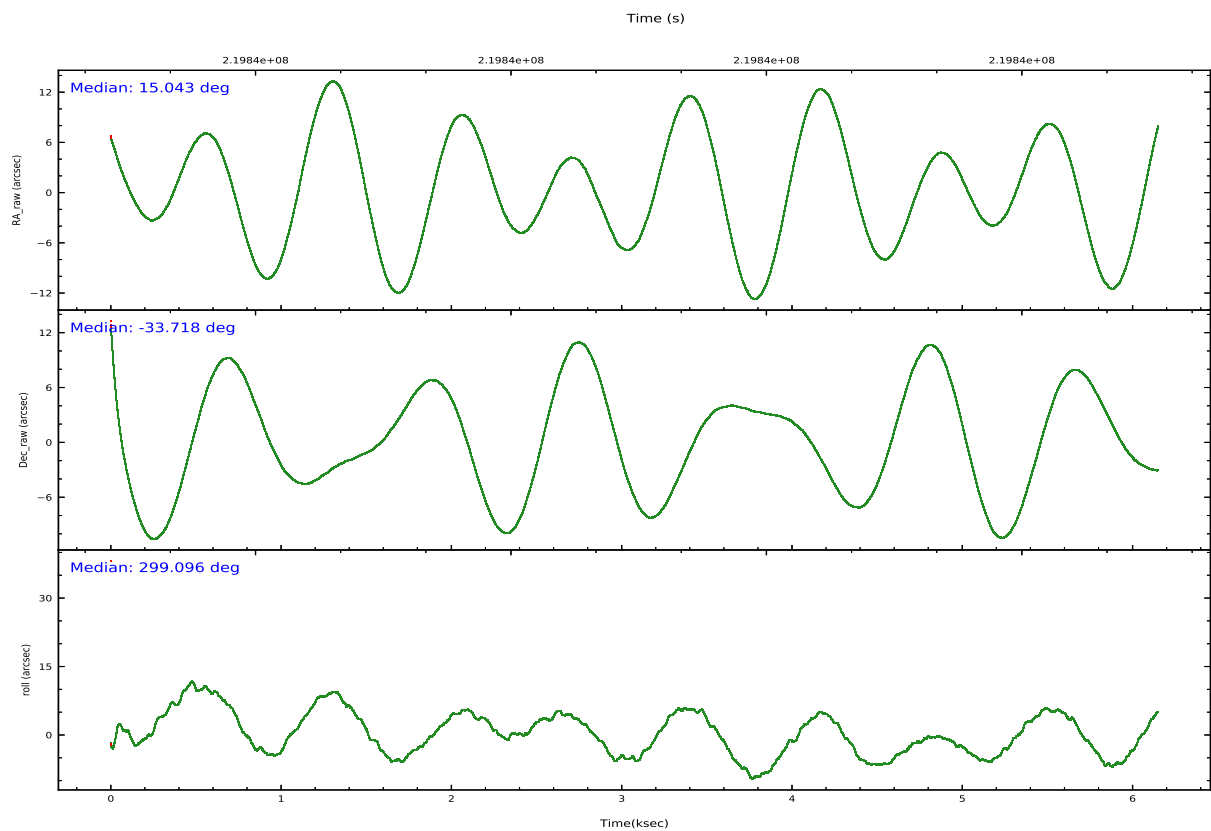


## 2.2 Compared Parameters

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	15.014644	15.038315038747	Subarray requested	NONE	NONE
[deg] Pointing Dec	-33.704366	-33.717603782175	Alternating exposures requested	N	N
[deg] Pointing Roll	298.927165	299.09651660919	[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	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	219834300.184000	219833271.91283			
Observation start date	2004-12-19T09:03:56	2004-12-19T08:47:51			
[s] Observation end time (MET)	219840300.184000	219840899.45067			
Observation end date	2004-12-19T10:43:56	2004-12-19T10:54:59			
Read mode	TIMED	TIMED			

## 2.3 Aspect



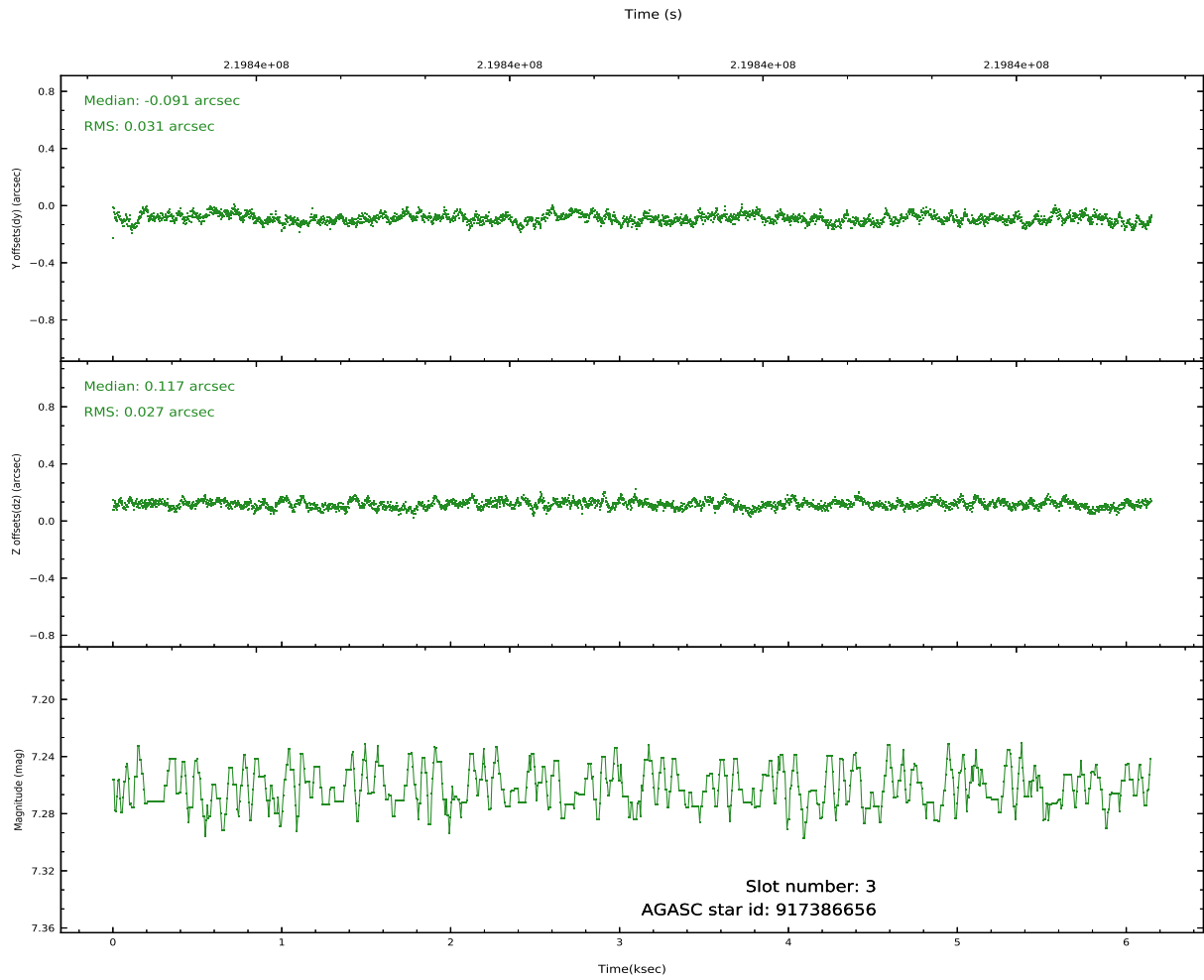
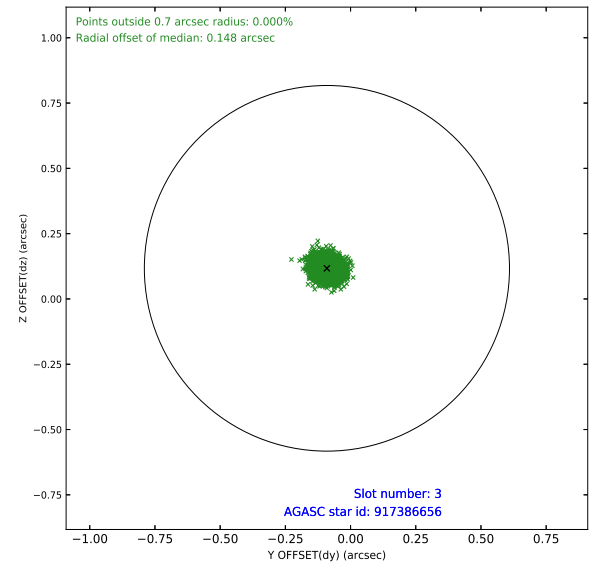
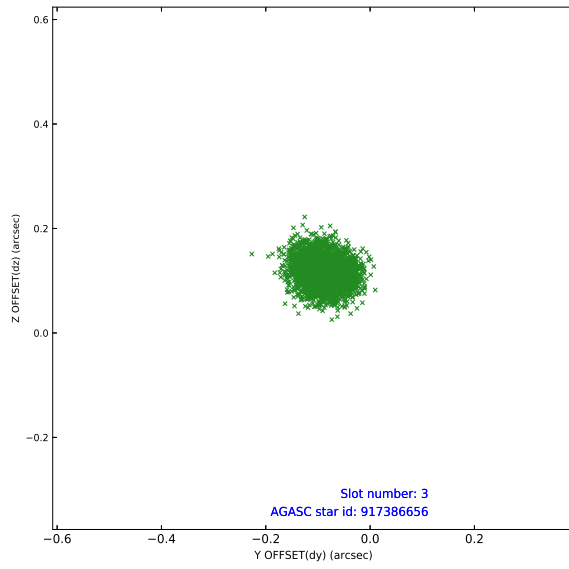


Slot Statistics

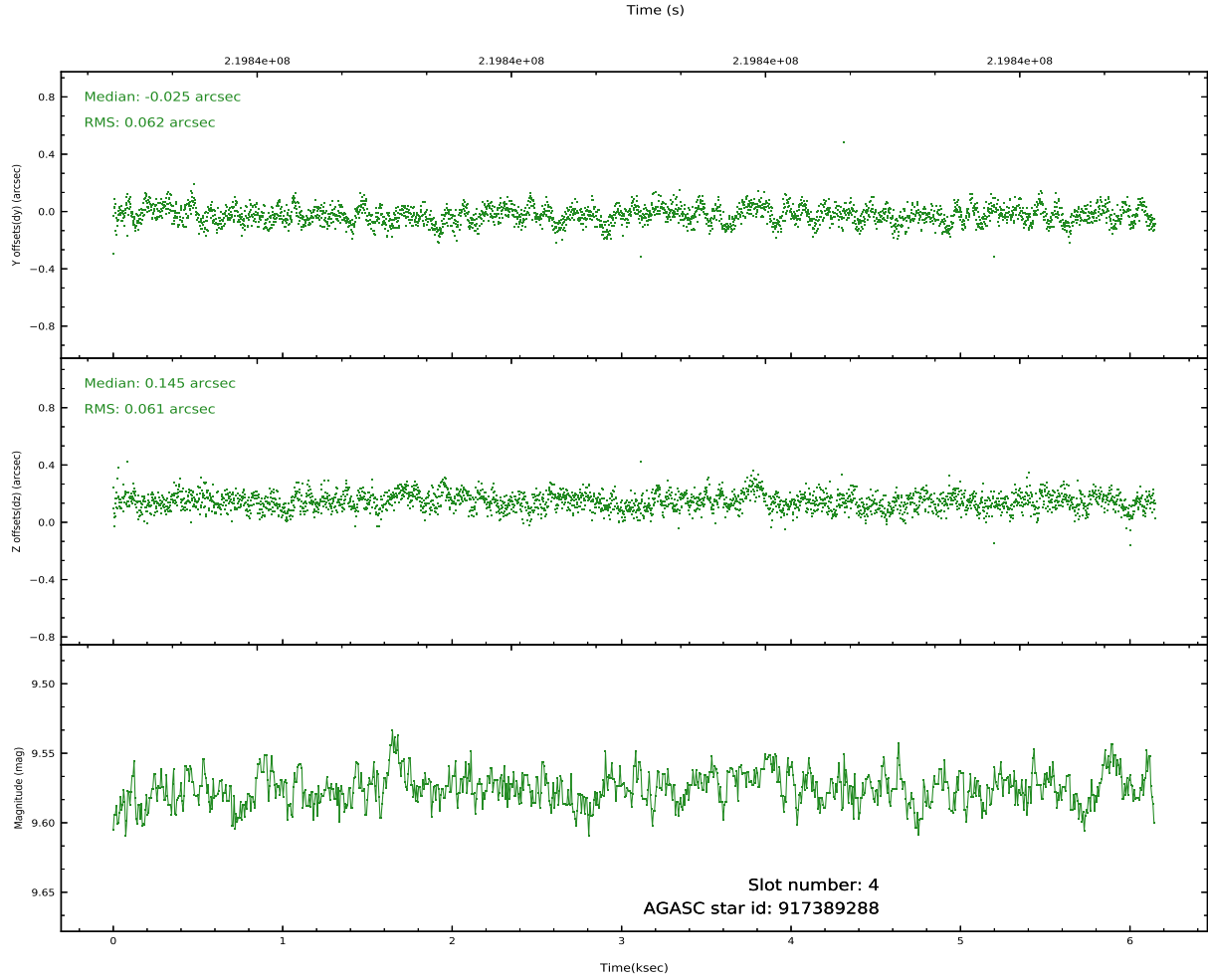
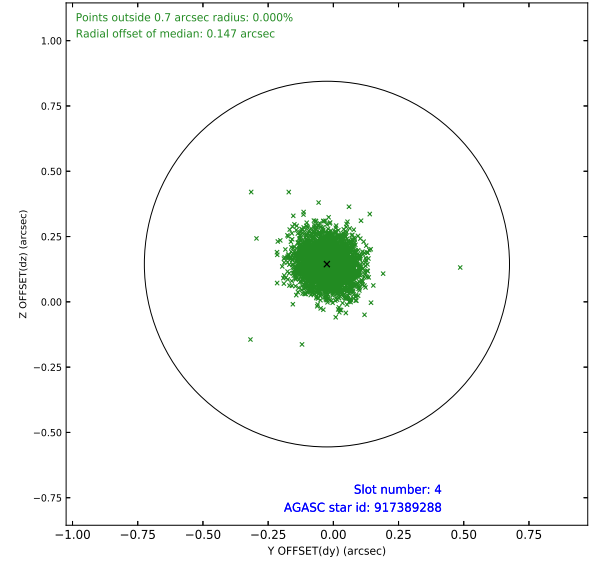
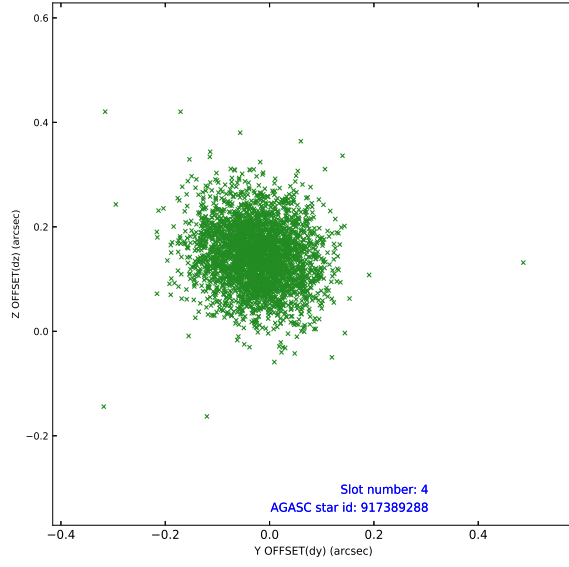
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.10	1501	1.000	-0.077	-0.052	0.007	0.011	0.000000	0.000000	-760.53	-1731
1	FID		ACIS-S-4	7.21	1501	1.000	0.163	0.051	0.006	0.012	0.000000	0.000000	2152.48	175
2	FID		ACIS-S-5	7.23	1501	1.000	-0.117	0.009	0.007	0.012	0.000000	0.000000	-1812.25	170
3	GUIDE	used	917386656	7.26	3001	1.000	-0.091	0.117	0.044	0.070	15.342124	-33.359890	-607.89	1461
4	GUIDE	used	917389288	9.58	2999	1.000	-0.025	0.145	0.092	0.149	15.394706	-33.185862	-1078.29	1904
5	GUIDE	used	917390768	9.87	3000	1.000	-0.082	0.060	0.114	0.185	14.870561	-33.104152	-2101.47	665
6	GUIDE	used	917650528	8.72	2998	1.000	-0.070	-0.112	0.083	0.131	14.274554	-33.869842	-541.90	-2227
7	GUIDE	used	917651048	9.65	2998	1.000	0.265	-0.211	0.102	0.159	14.655628	-34.424089	1754.44	-2187

## 2.4 Star Slots

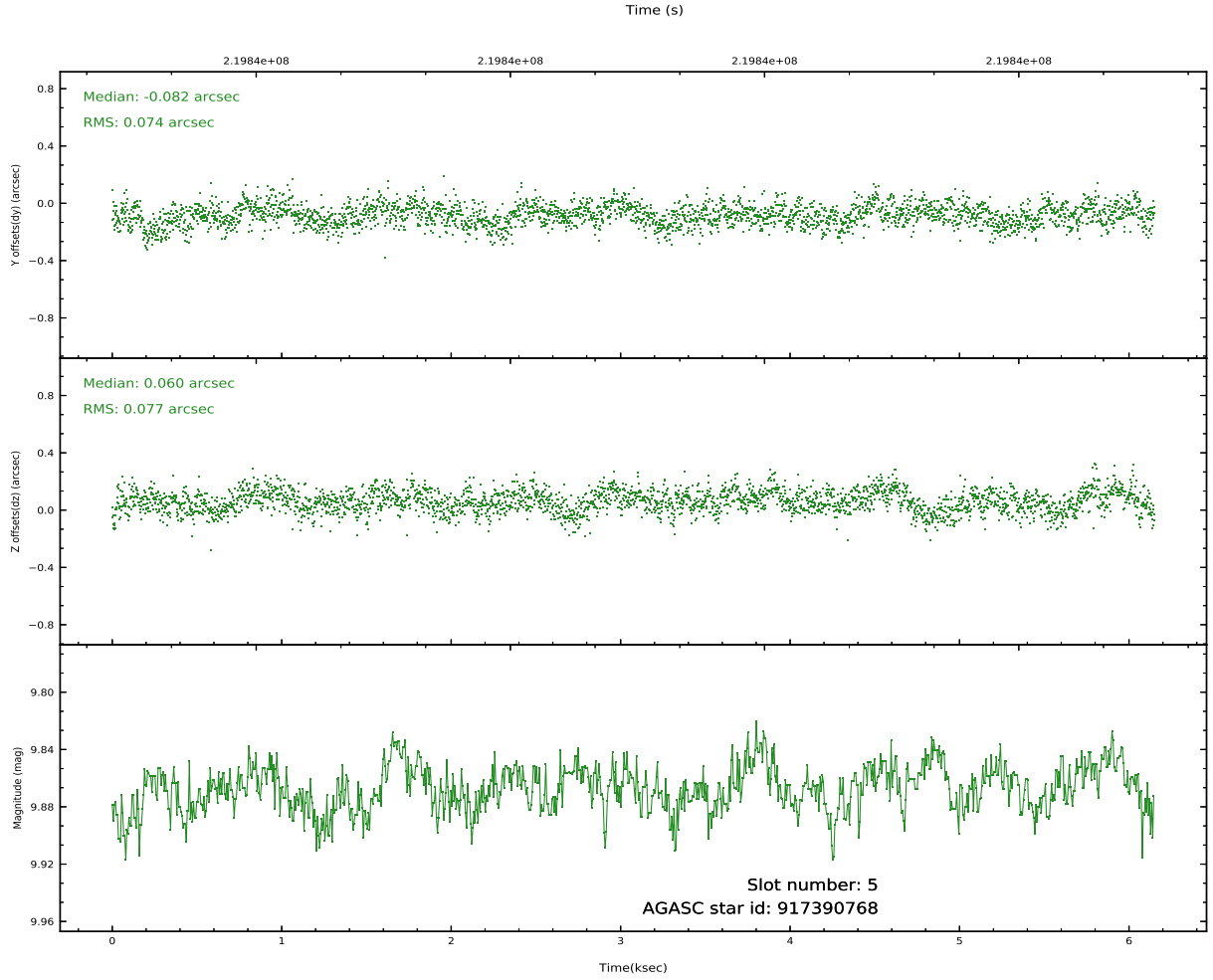
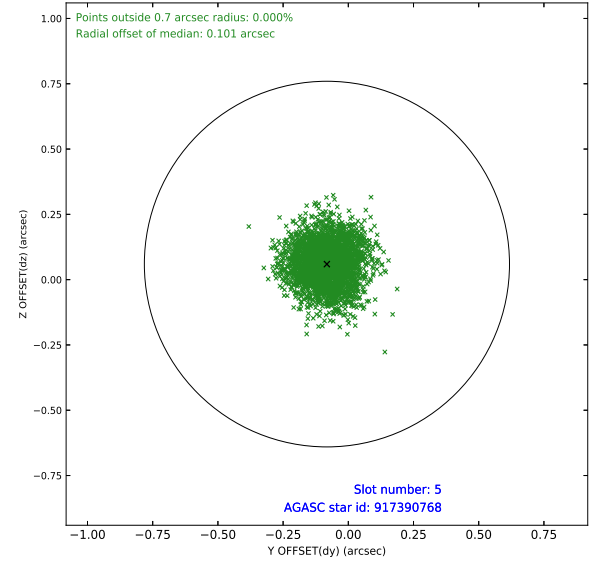
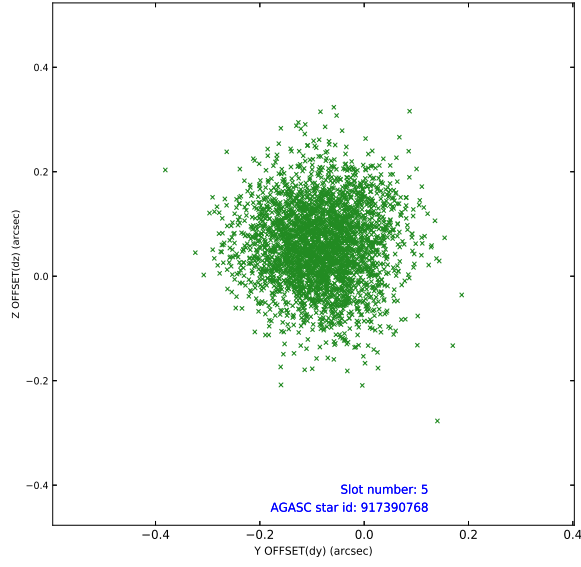
### 2.4.1 Slot 3



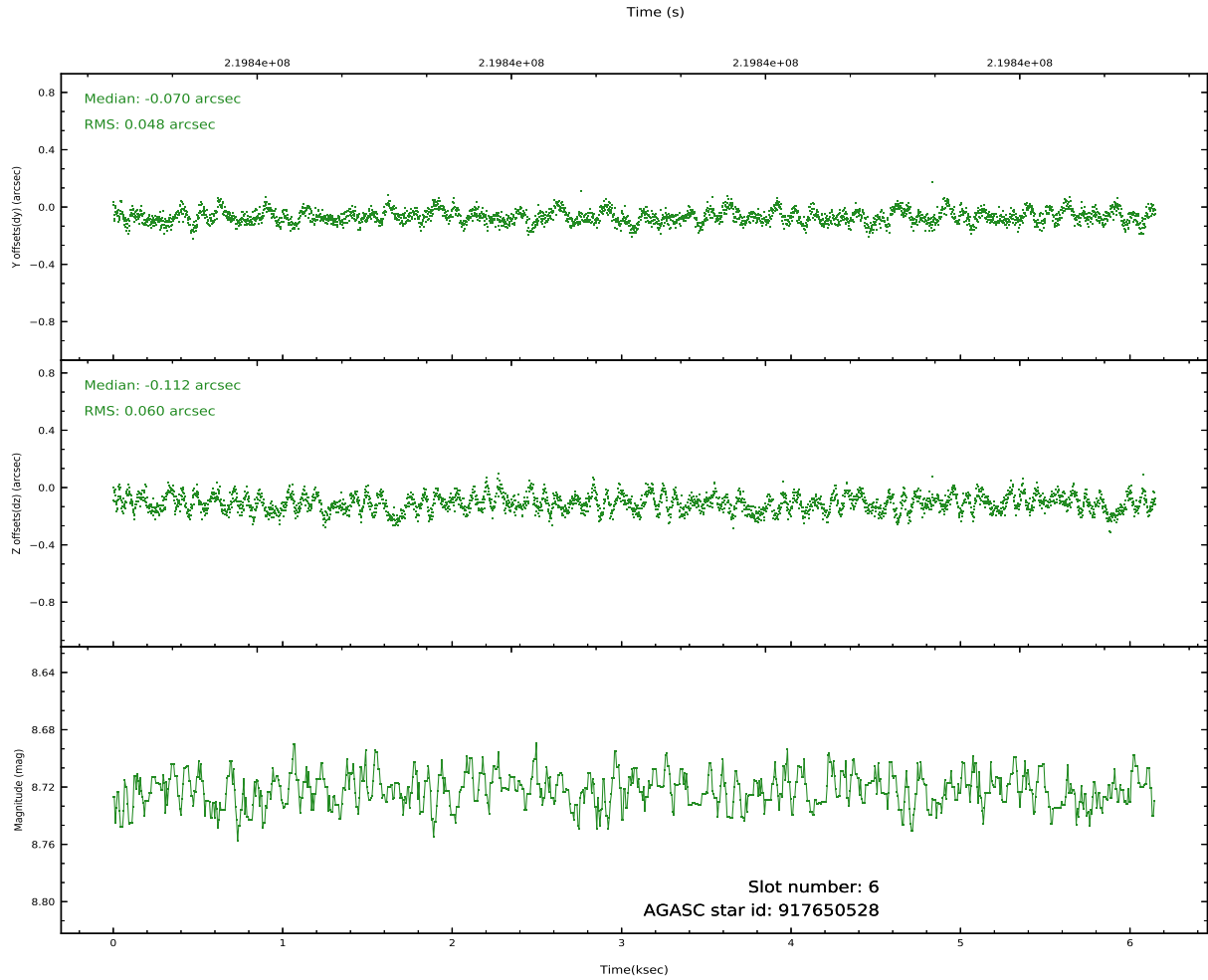
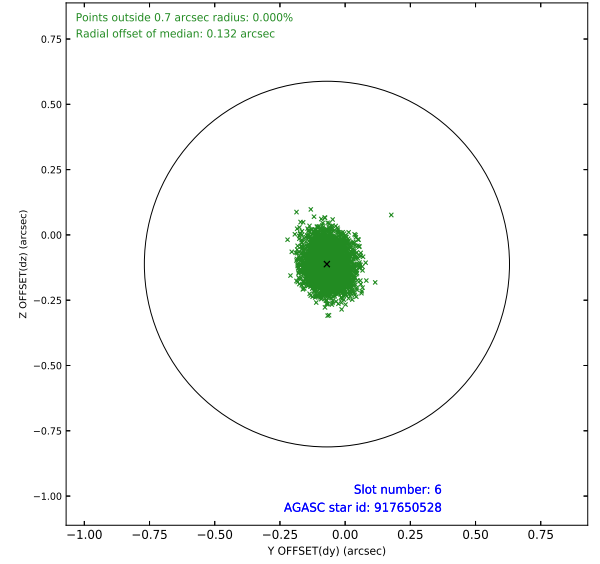
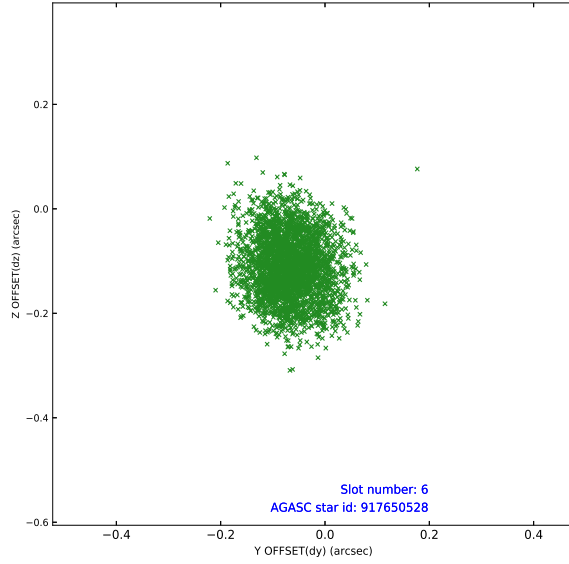
## 2.4.2 Slot 4



### 2.4.3 Slot 5

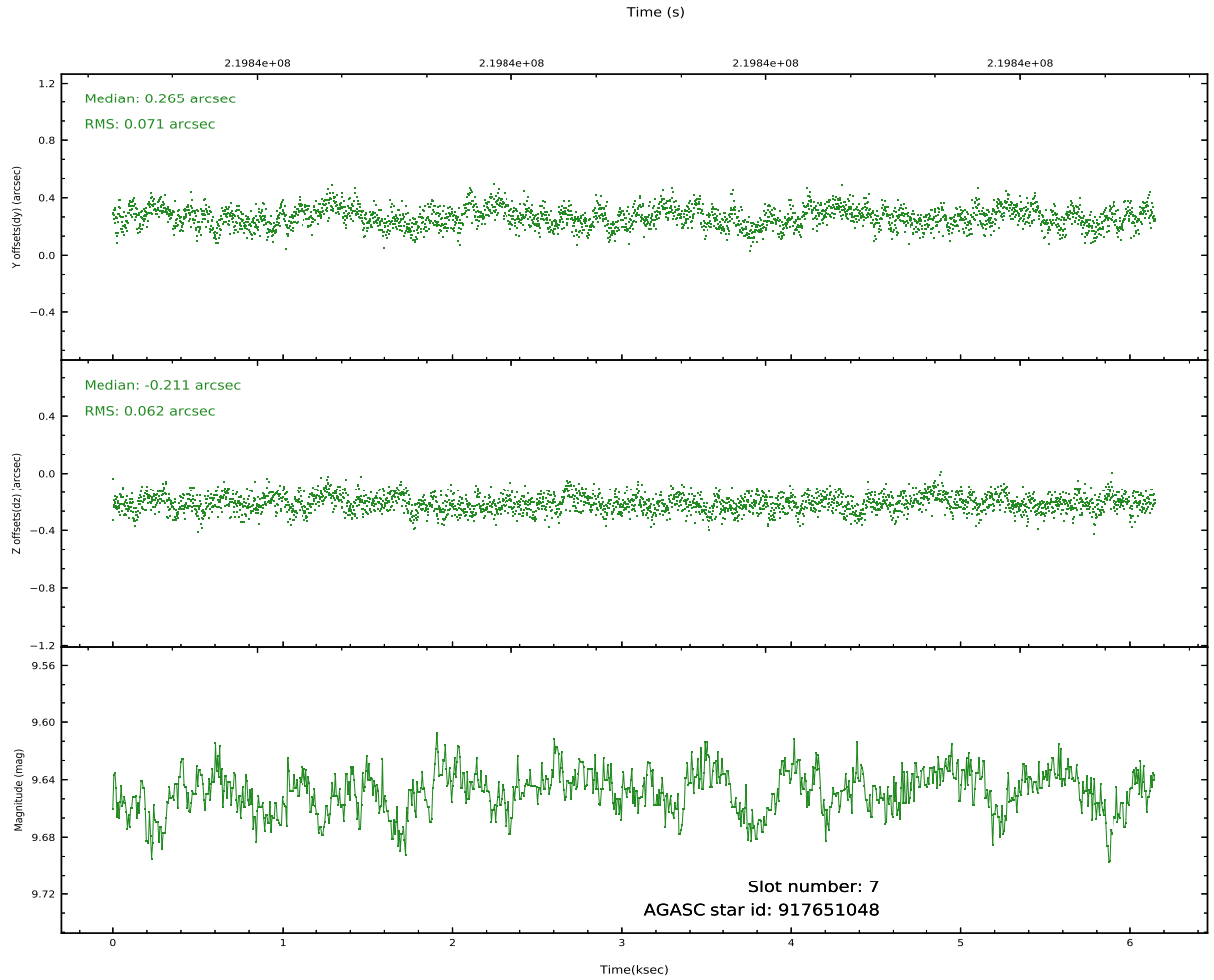
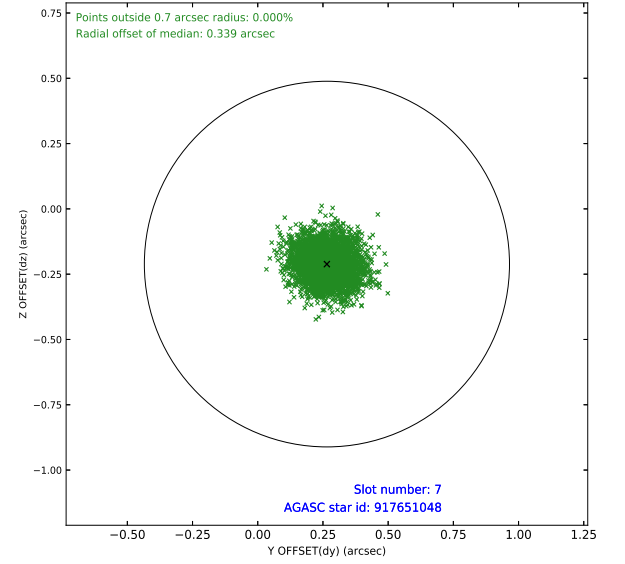
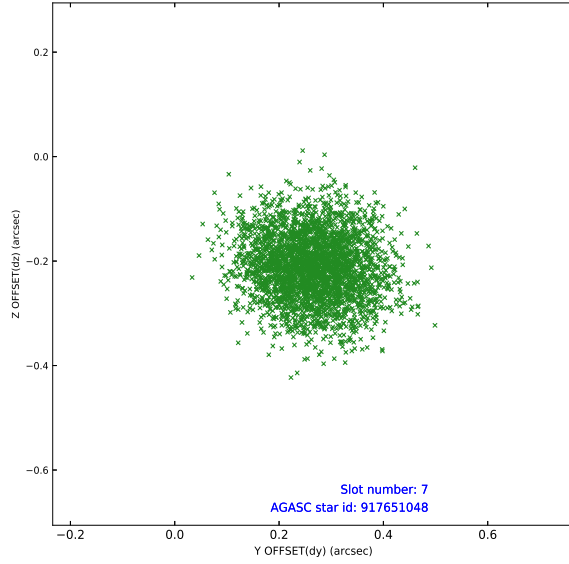


## 2.4.4 Slot 6



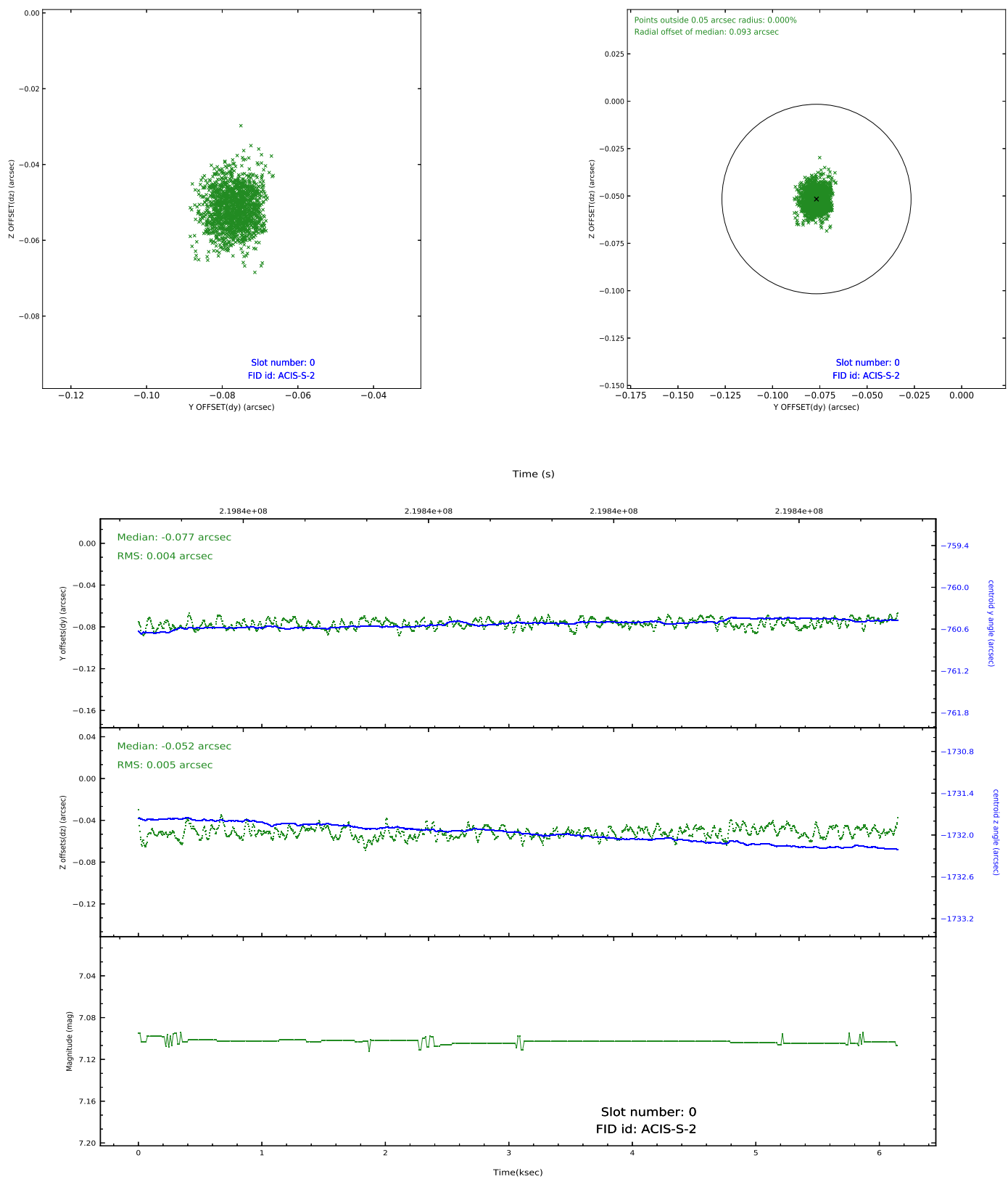


## 2.4.5 Slot 7

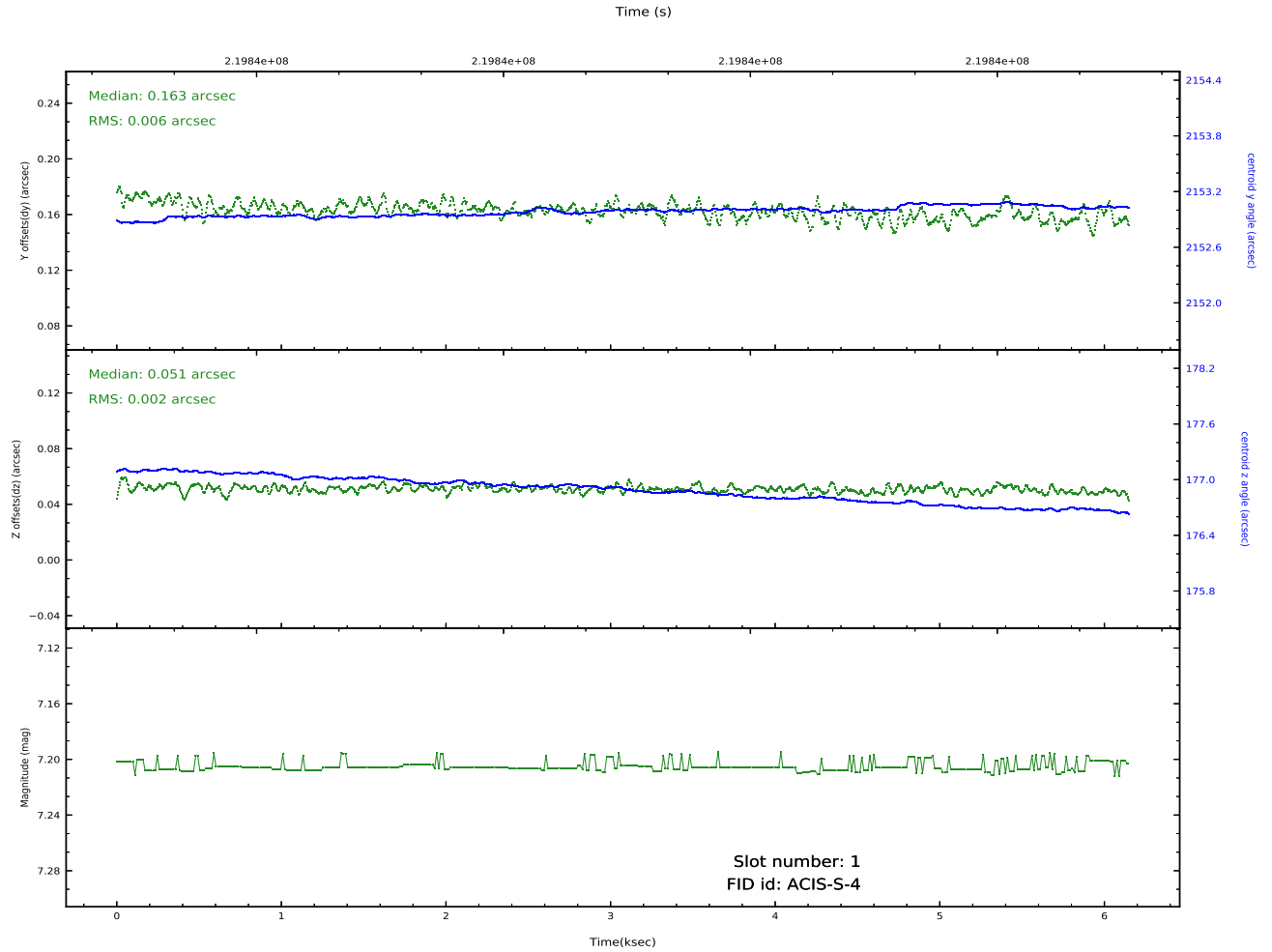
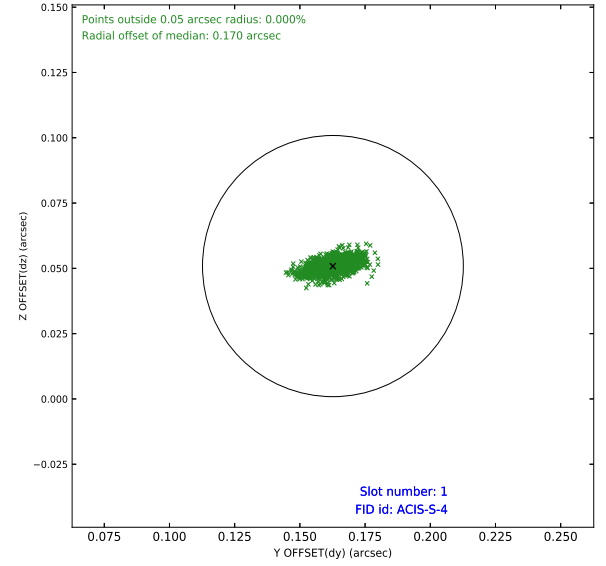
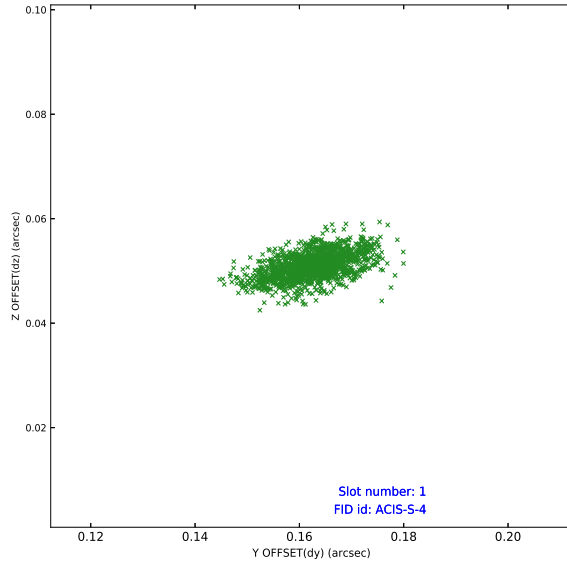


## 2.5 FID Slots

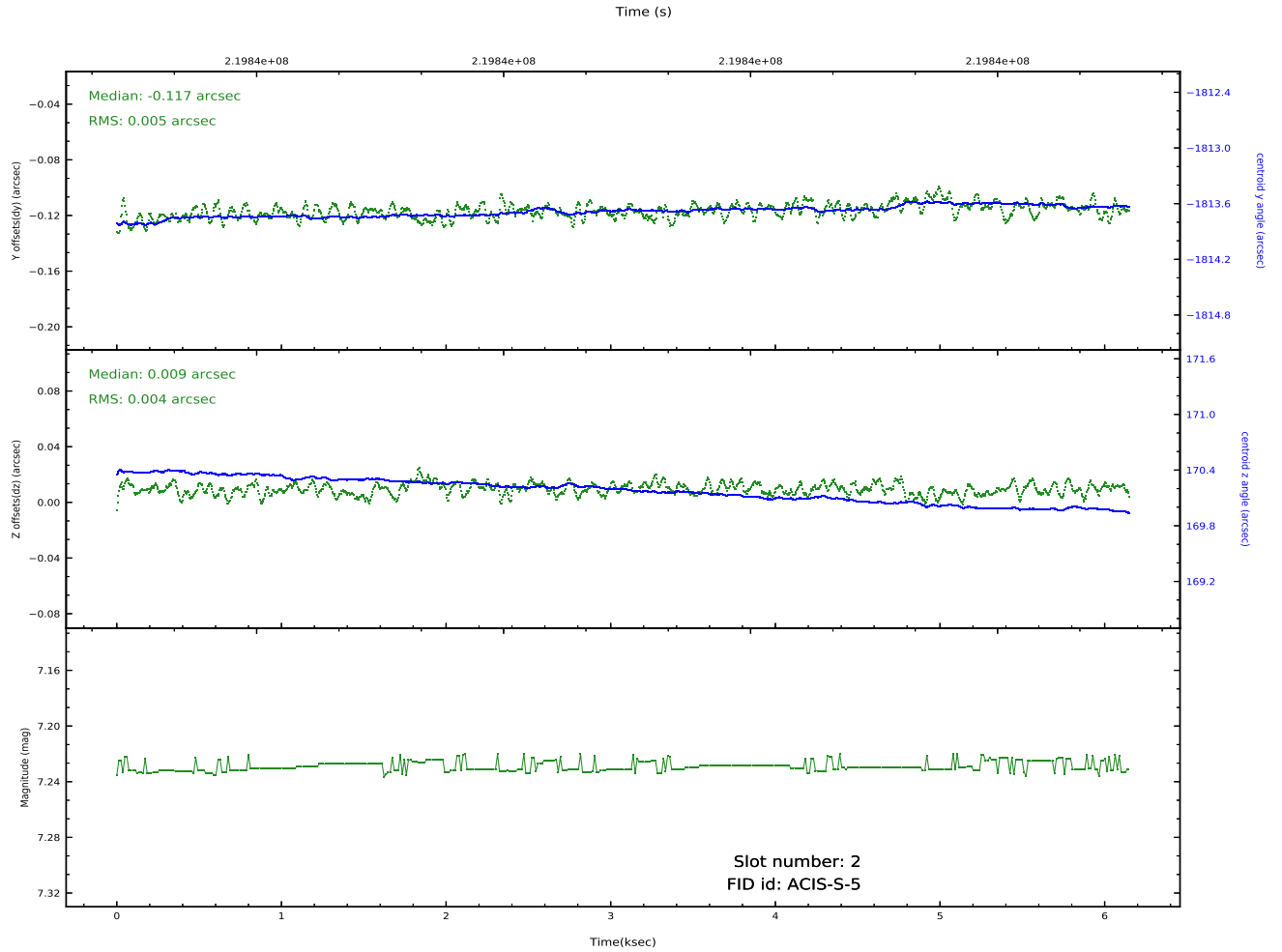
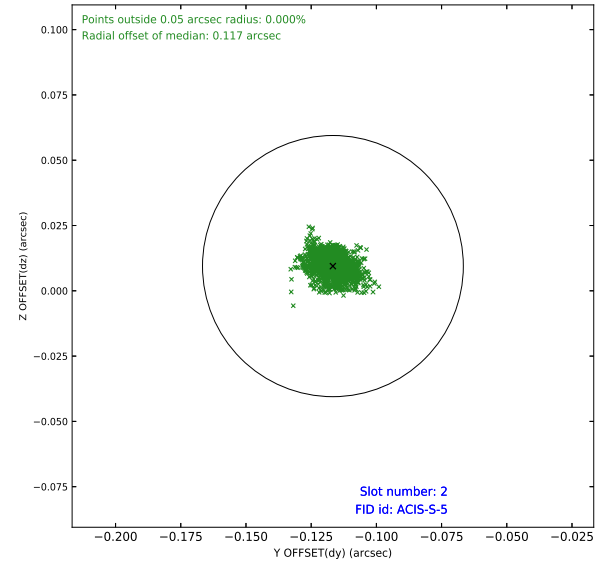
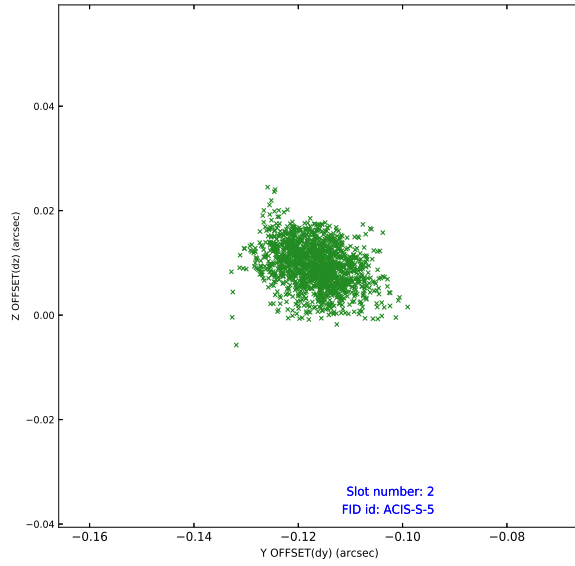
### 2.5.1 Slot 0



## 2.5.2 Slot 1



## 2.5.3 Slot 2



# A Summary

## A.1 Status

V&V Scientist	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	6.092799

## A.2 Comments

Joint Proposal: NOAO