

# V&V Reference Report

## L2 ASCDS Version : 10.9.1

Observation 4703 - L2 Version 4  
Chandra X-Ray Center

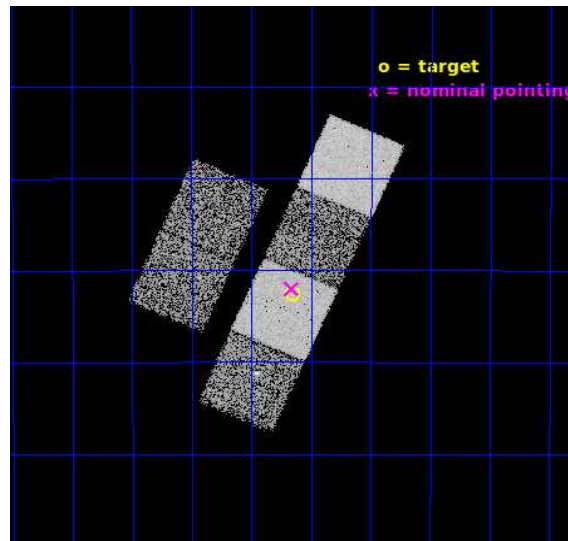
L2 Processing Date : Sep 26 2020

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# 1 Front

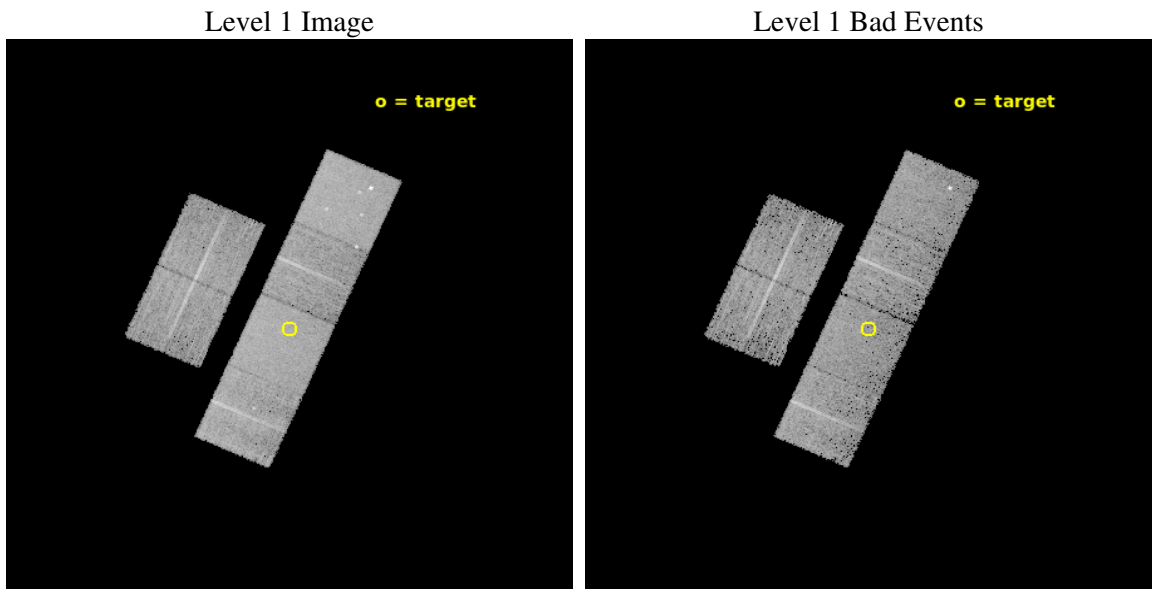
seq_num	600358	Sequence number
obs_id	4703	Observation id
title	Using the Sculptor Dwarf Spheroidal Galaxy to Constrain X-ray Binary Production in Population II	Proposal title
observer	Thomas Maccarone	Principal investigator
object	SCULPTOR DWARF SPHEROIDAL	Source name
dtcycle	0	&#160
cycle	P	events 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	15.040179135879	Nominal RA [deg]
dec_nom	-33.700064351473	Nominal Dec [deg]
roll_nom	113.89397010786	Nominal Roll [deg]
revision	4	Processing version of data
ontime	5955.1999778152	Sum of GTIs [s]
livetime	5879.7916499051	Livetime [s]
ontime2	5955.1999778152	Sum of GTIs [s]
ontime3	5955.1072458923	Sum of GTIs [s]
ontime5	5955.1893258989	Sum of GTIs [s]
ontime6	5955.1482858956	Sum of GTIs [s]
ontime7	5955.1999778152	Sum of GTIs [s]
ontime8	5955.0662059188	Sum of GTIs [s]
l2events	70104	Number of level 2 events



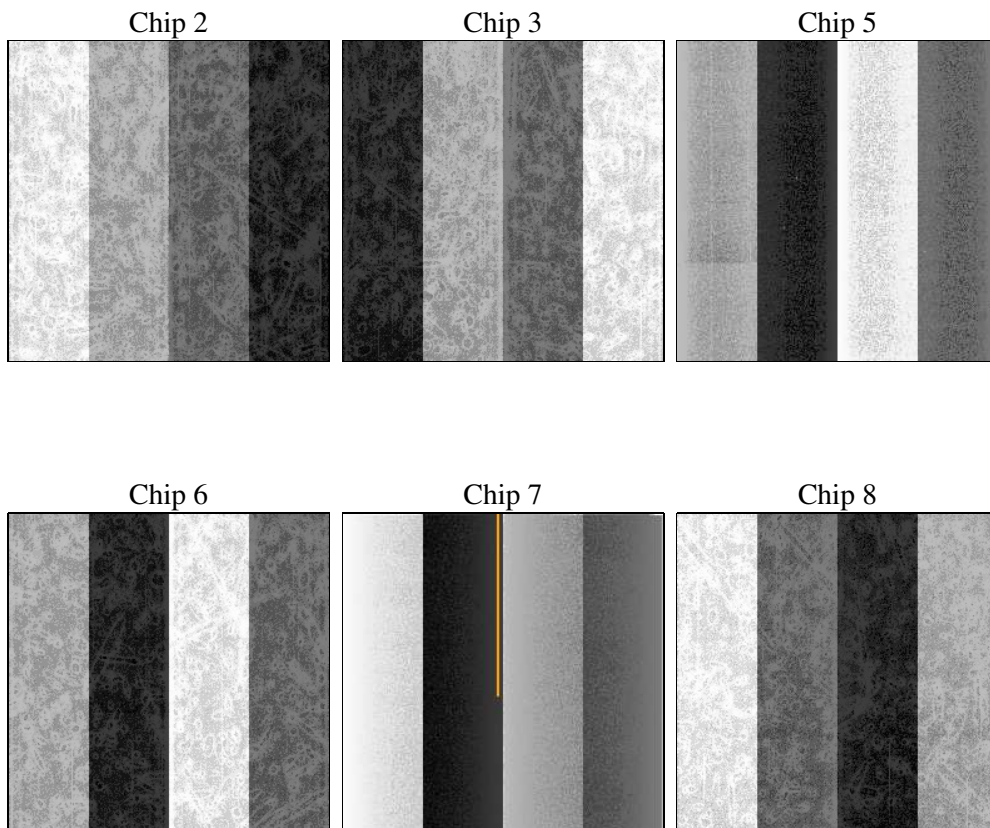
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	6000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	5955.1999778152	Sum of GTIs [s]
caldsver	4.9.2	&#160	ontime2	5955.1999778152	Sum of GTIs [s]
date	2020-09-26T20:41:46	Date and time of file creation	ontime3	5955.1072458923	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	5955.1893258989	Sum of GTIs [s]
			ontime6	5955.1482858956	Sum of GTIs [s]
			ontime7	5955.1999778152	Sum of GTIs [s]
			ontime8	5955.0662059188	Sum of GTIs [s]
			l1events	315436	Number of level 1 events

### 2.1.4 Events

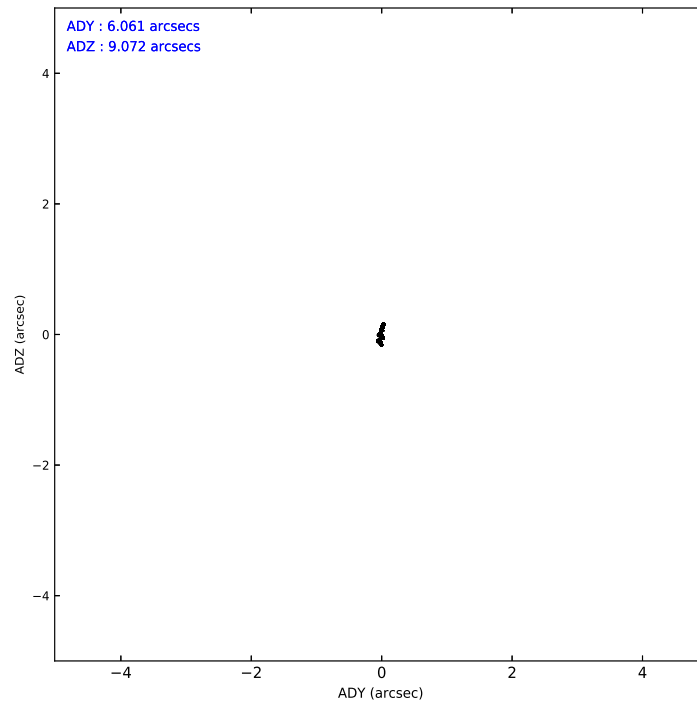
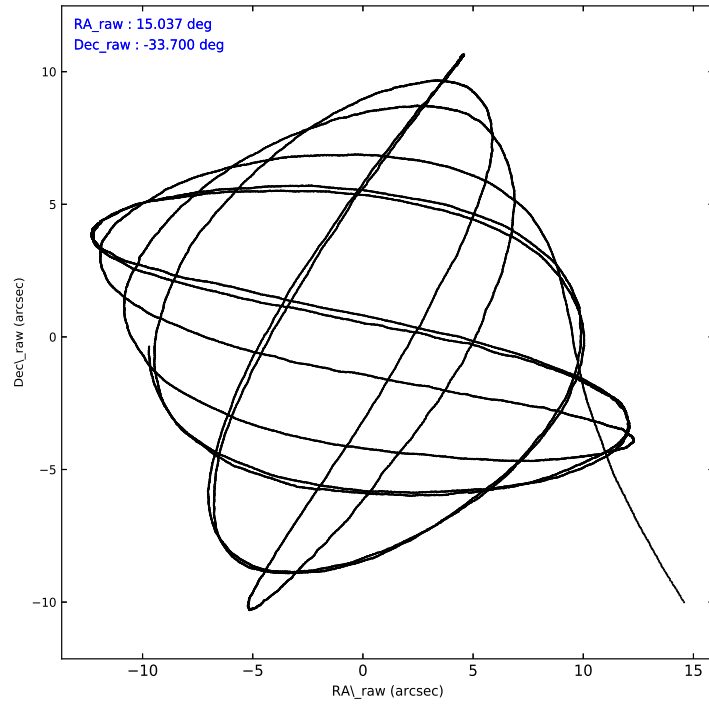
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	44116	43287	67048	44951	59817	56217	grade 0 events	2293	2241	3456	2042	2220	4133
rejected events	38889	38338	36861	39701	35359	43632		5%	5%	5%	4%	3%	7%
rejected %	88%	88%	54%	88%	59%	77%	grade 1 events	28	25	898	25	65	45
								0%	0%	1%	0%	0%	0%
							grade 2 events	1068	923	8577	1121	4893	2640
								2%	2%	12%	2%	8%	4%
							grade 3 events	498	494	1118	471	2085	1311
								1%	1%	1%	1%	3%	2%
							grade 4 events	523	484	1212	523	2162	1272
								1%	1%	1%	1%	3%	2%
							grade 5 events	1717	1917	4764	2066	5763	2657
								3%	4%	7%	4%	9%	4%
							grade 6 events	848	810	15859	1100	13124	3238
								1%	1%	23%	2%	21%	5%
							grade 7 events	37141	36393	31164	37603	29505	40921
								84%	84%	46%	83%	49%	72%

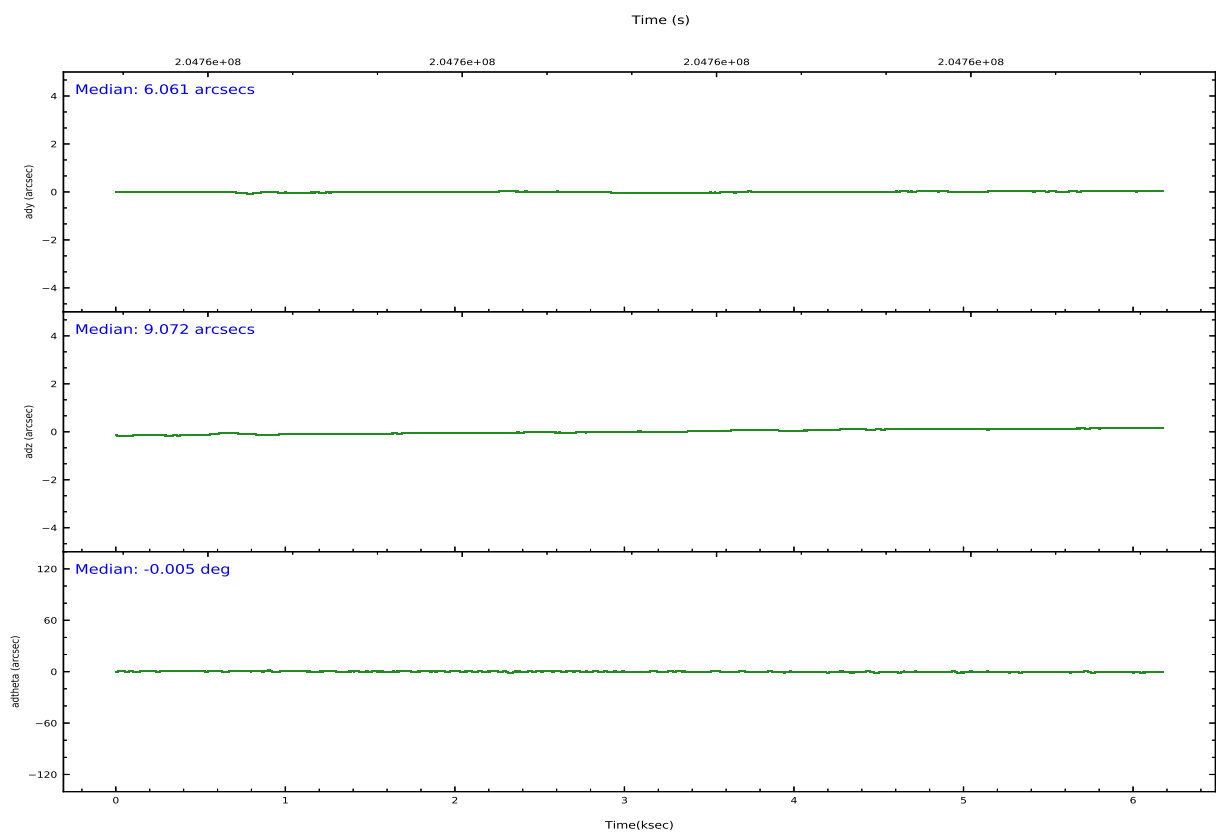
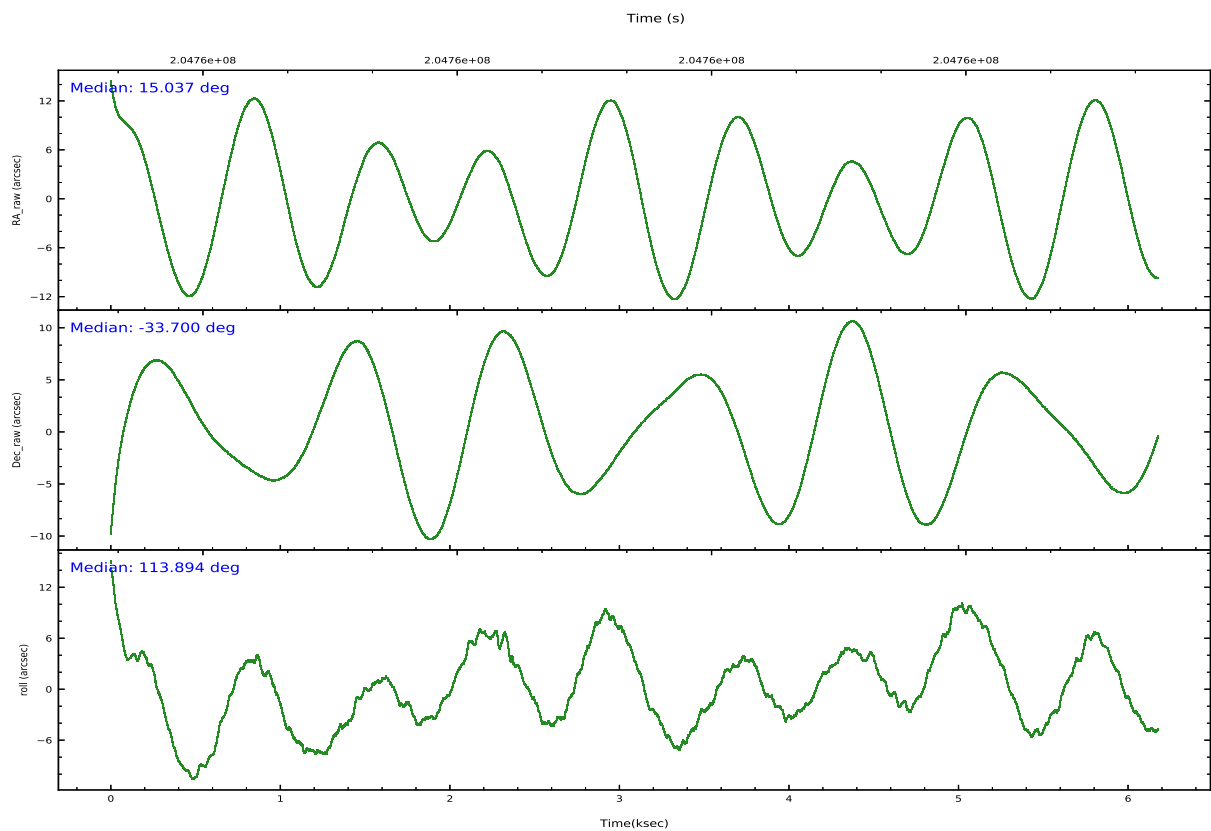


## 2.2 Compared Parameters

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	15.063102	15.040179135879	Subarray requested	NONE	NONE
[deg] Pointing Dec	-33.715236	-33.700064351473	Alternating exposures requested	N	N
[deg] Pointing Roll	113.757600	113.89397010786	[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)	204755133.184000	204754162.08934			
Observation start date	2004-06-27T20:24:29	2004-06-27T20:09:22			
[s] Observation end time (MET)	204761133.184000	204761712.75218			
Observation end date	2004-06-27T22:04:29	2004-06-27T22:15:12			
Read mode	TIMED	TIMED			

## 2.3 Aspect



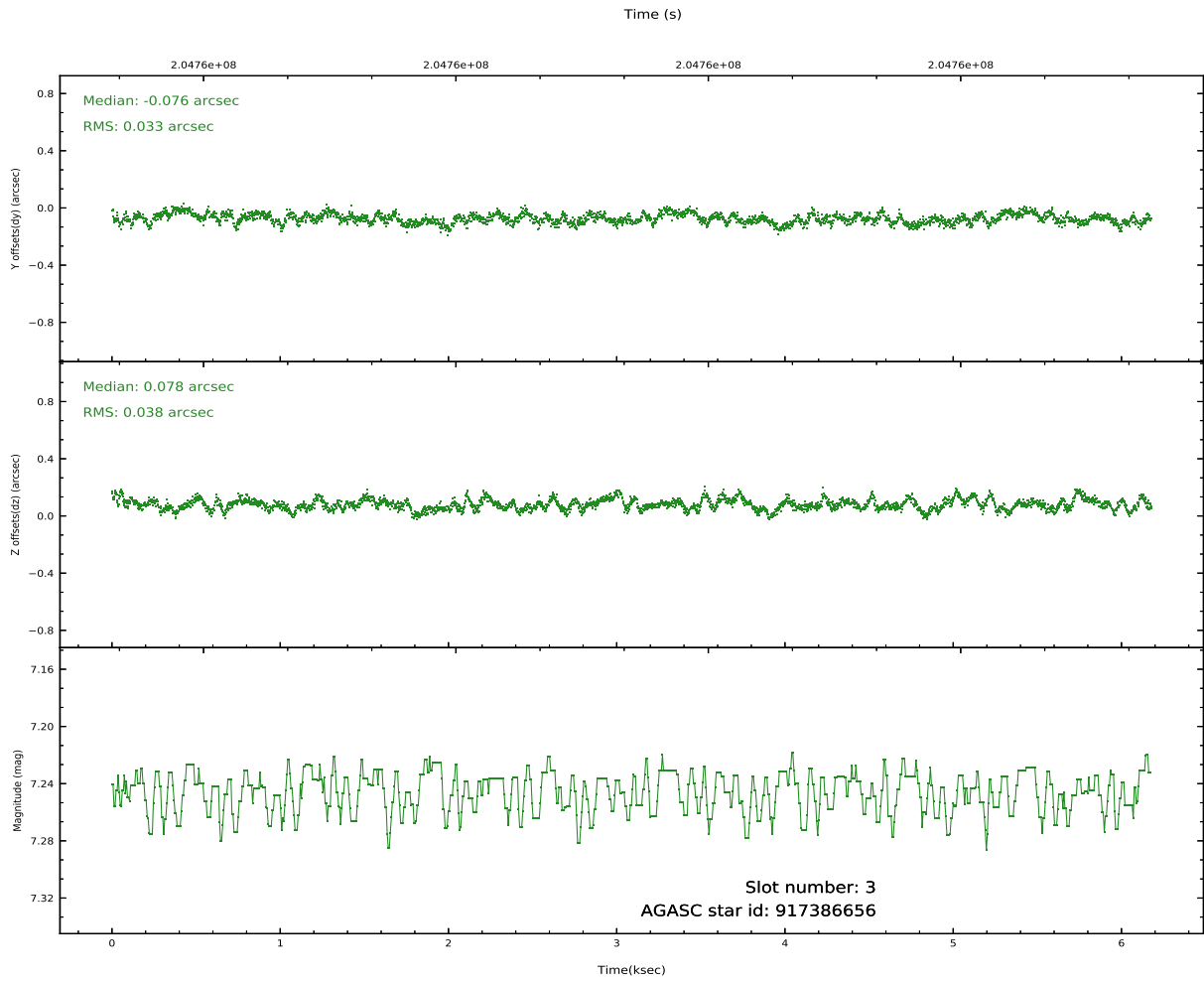
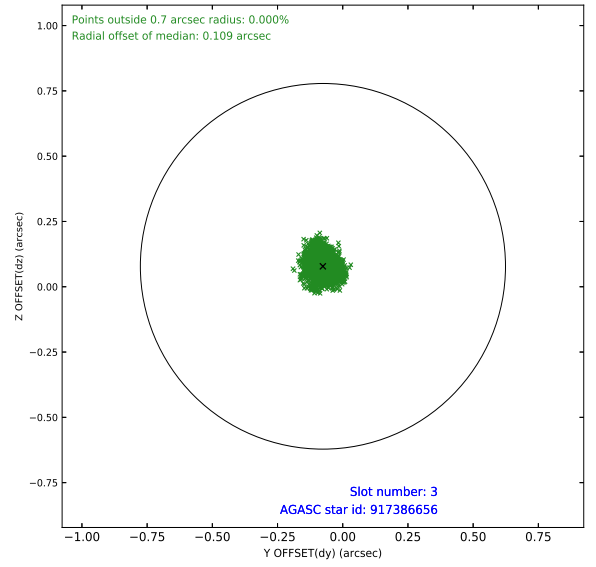
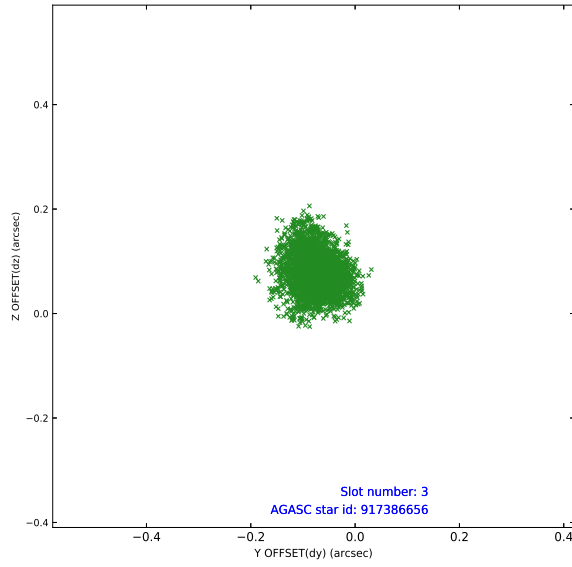


Slot Statistics

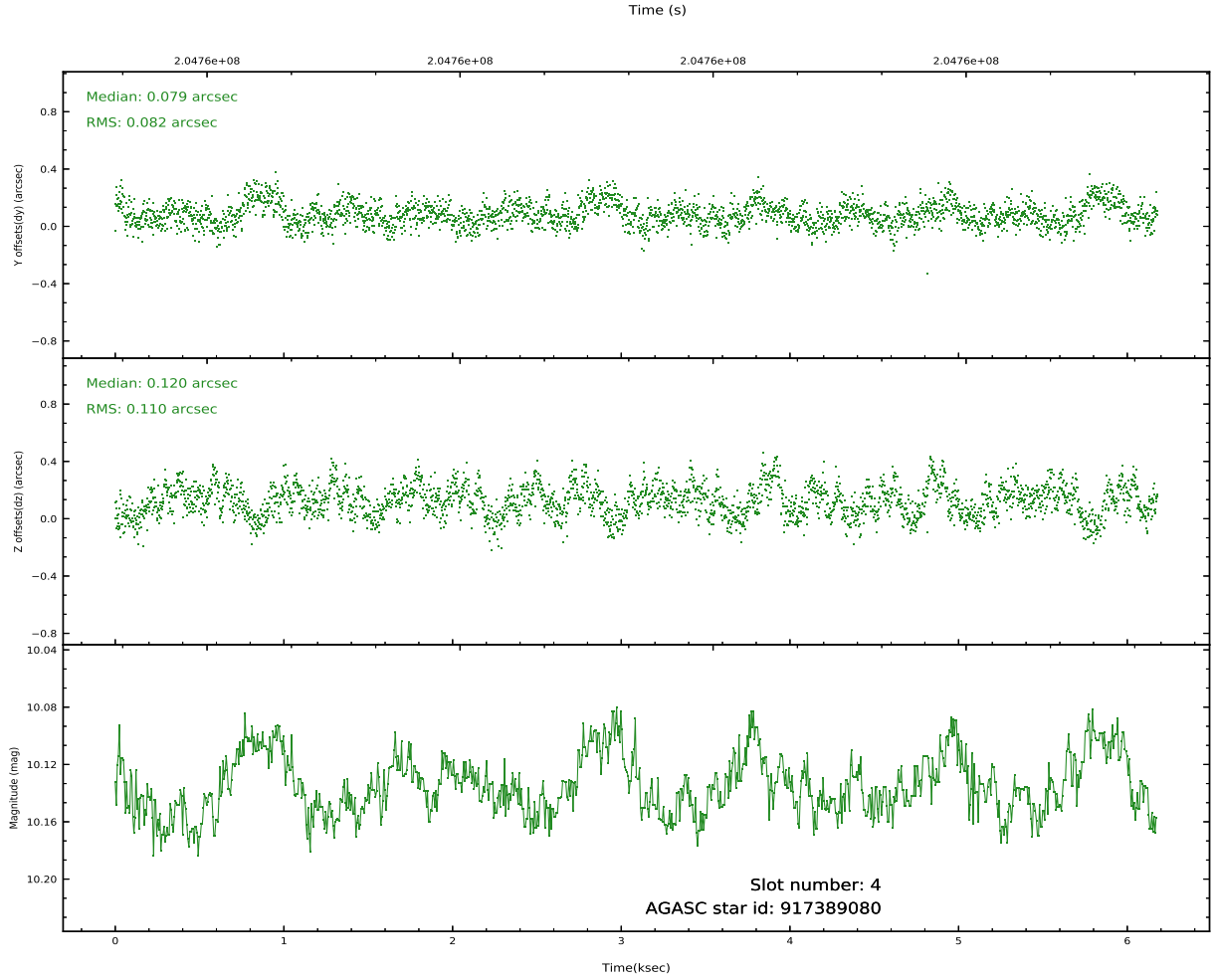
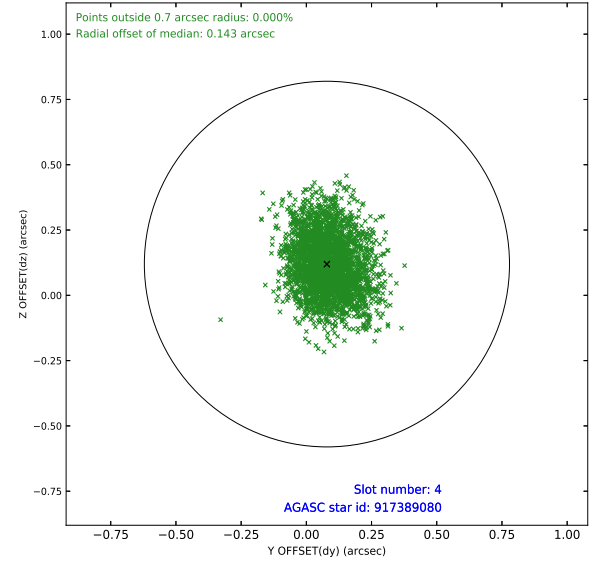
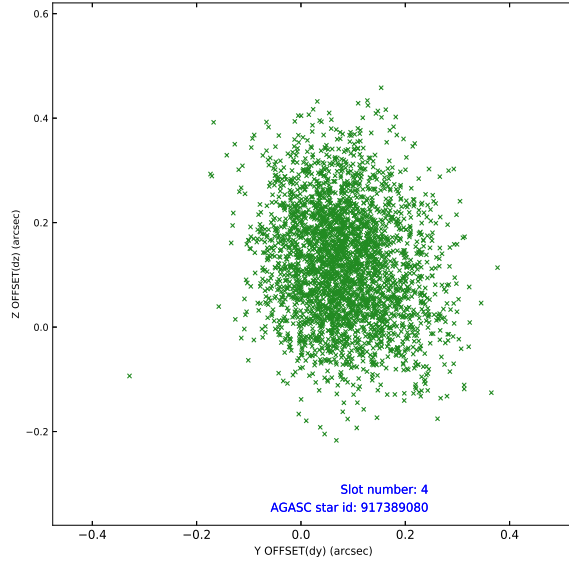
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-1	7.19	1507	1.000	0.006	-0.041	0.009	0.014	0.000000	0.000000	937.25	-1725
1	FID		ACIS-S-4	7.21	1507	1.000	0.106	0.030	0.007	0.011	0.000000	0.000000	2155.29	177
2	FID		ACIS-S-5	7.23	1508	1.000	-0.138	0.023	0.007	0.013	0.000000	0.000000	-1810.54	171
3	GUIDE	used	917386656	7.24	3015	1.000	-0.076	0.078	0.054	0.087	15.342124	-33.359890	832.34	-1282
4	GUIDE	used	917389080	10.14	3011	1.000	0.079	0.120	0.148	0.239	15.722484	-33.662555	-627.17	-1882
5	GUIDE	used	917389288	9.57	3010	1.000	-0.108	0.201	0.112	0.181	15.394706	-33.185862	1340.56	-1681
6	GUIDE	used	917651048	9.67	3014	1.000	0.102	-0.104	0.120	0.198	14.655628	-34.424089	-1849.96	2135
7	GUIDE	used	917650528	8.72	3014	1.000	-0.008	-0.299	0.093	0.154	14.274554	-33.869842	431.16	2385

## 2.4 Star Slots

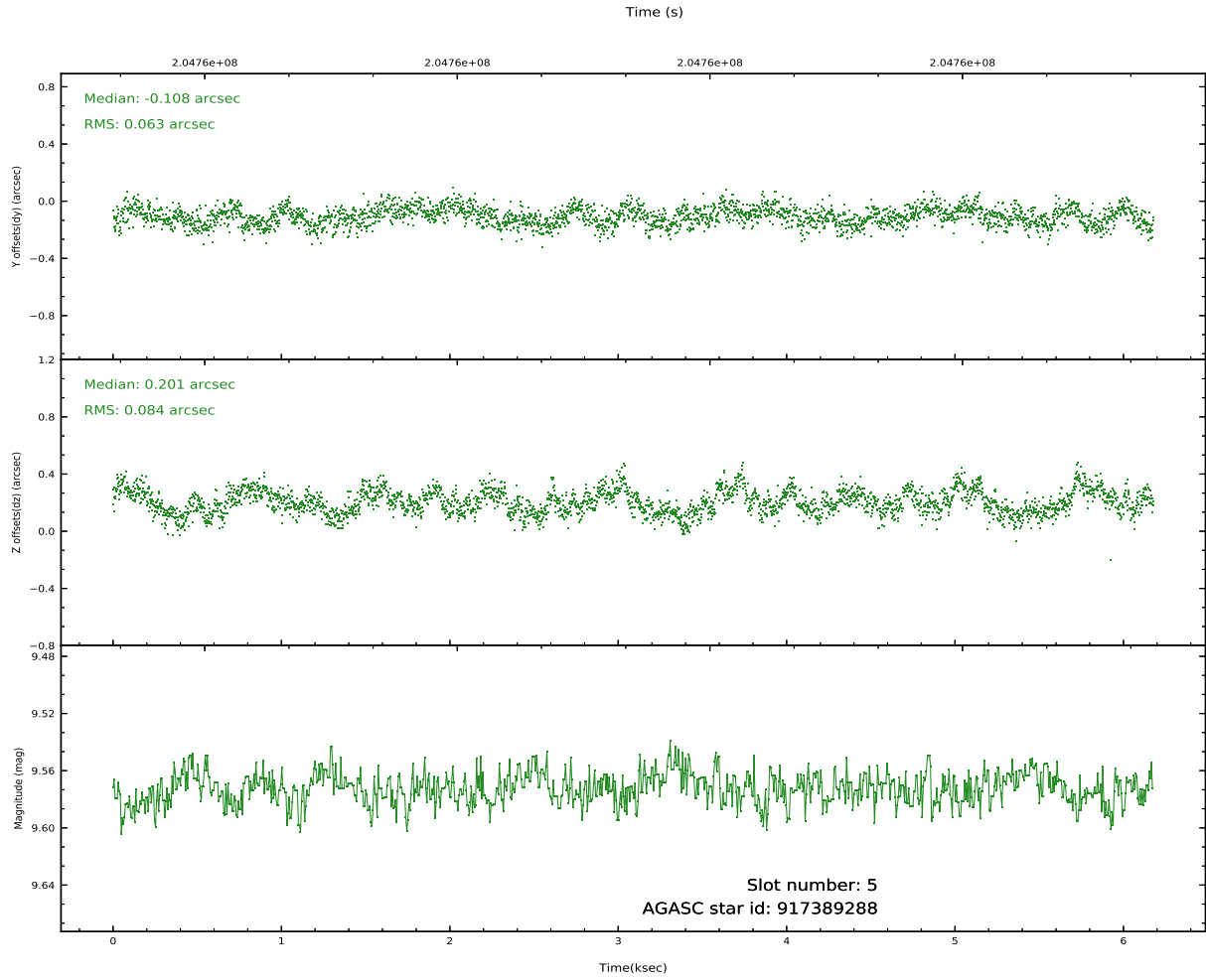
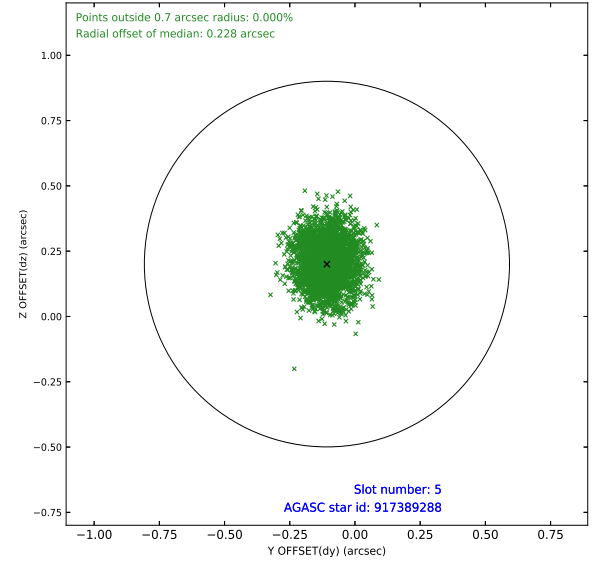
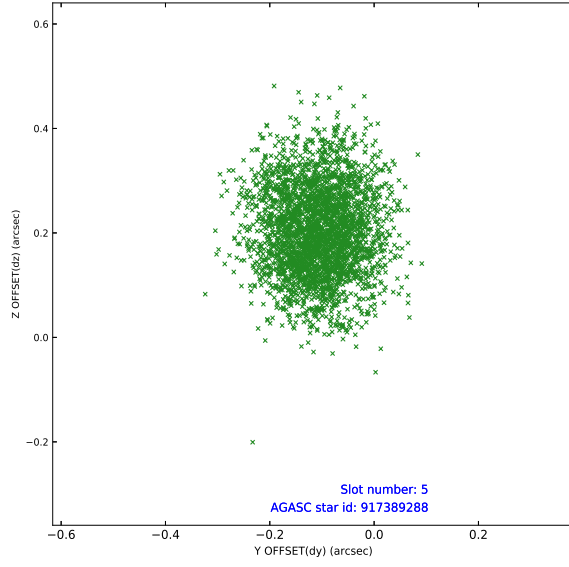
### 2.4.1 Slot 3



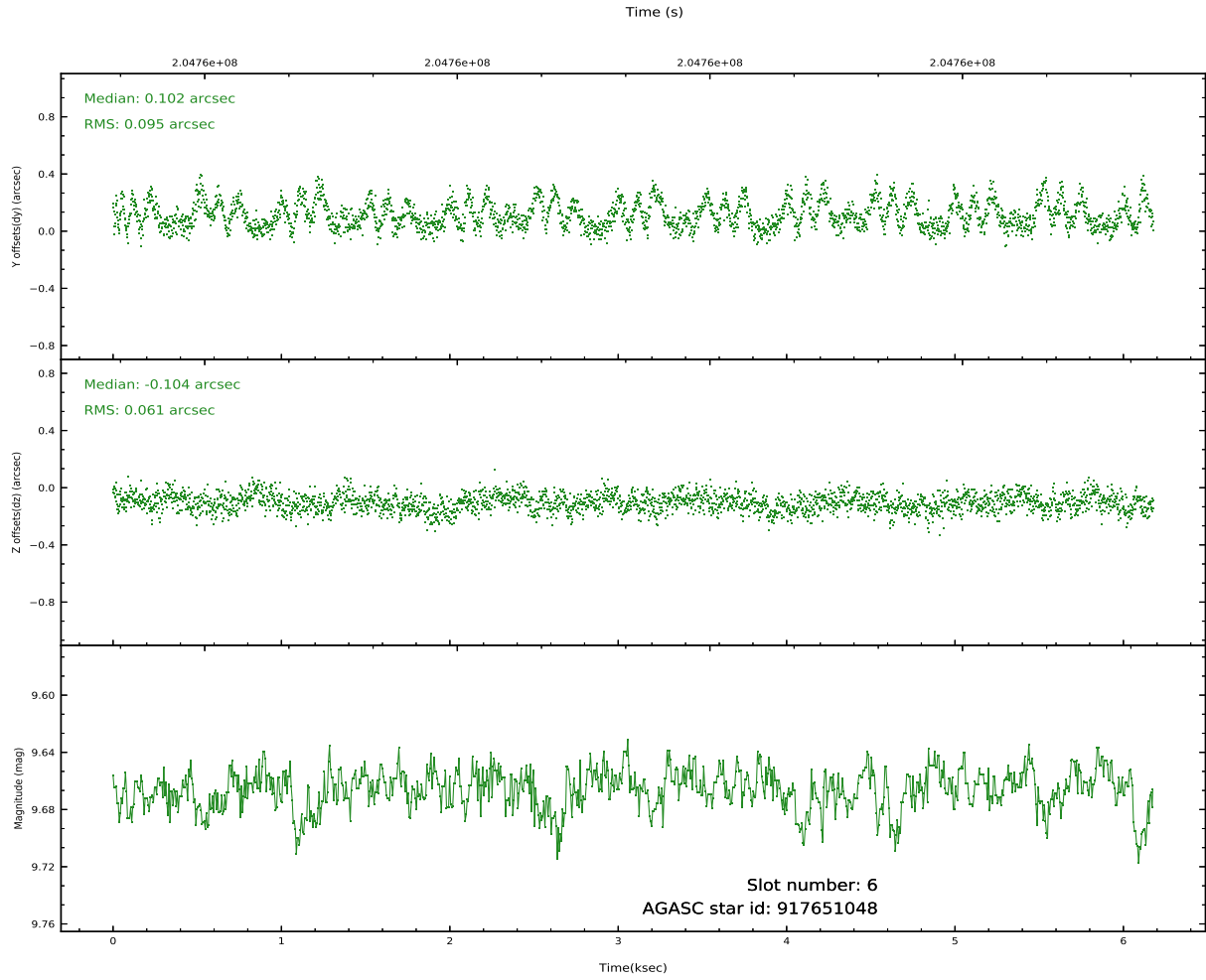
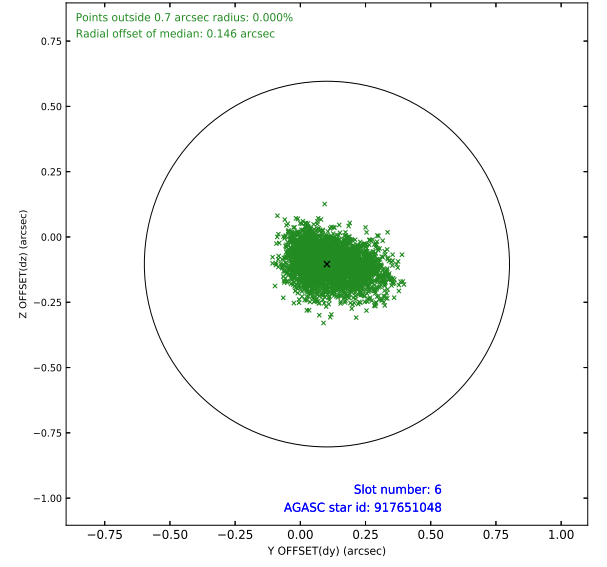
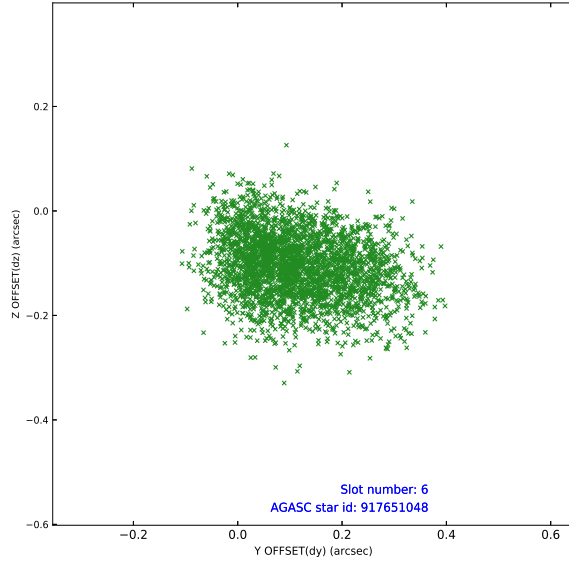
## 2.4.2 Slot 4



### 2.4.3 Slot 5

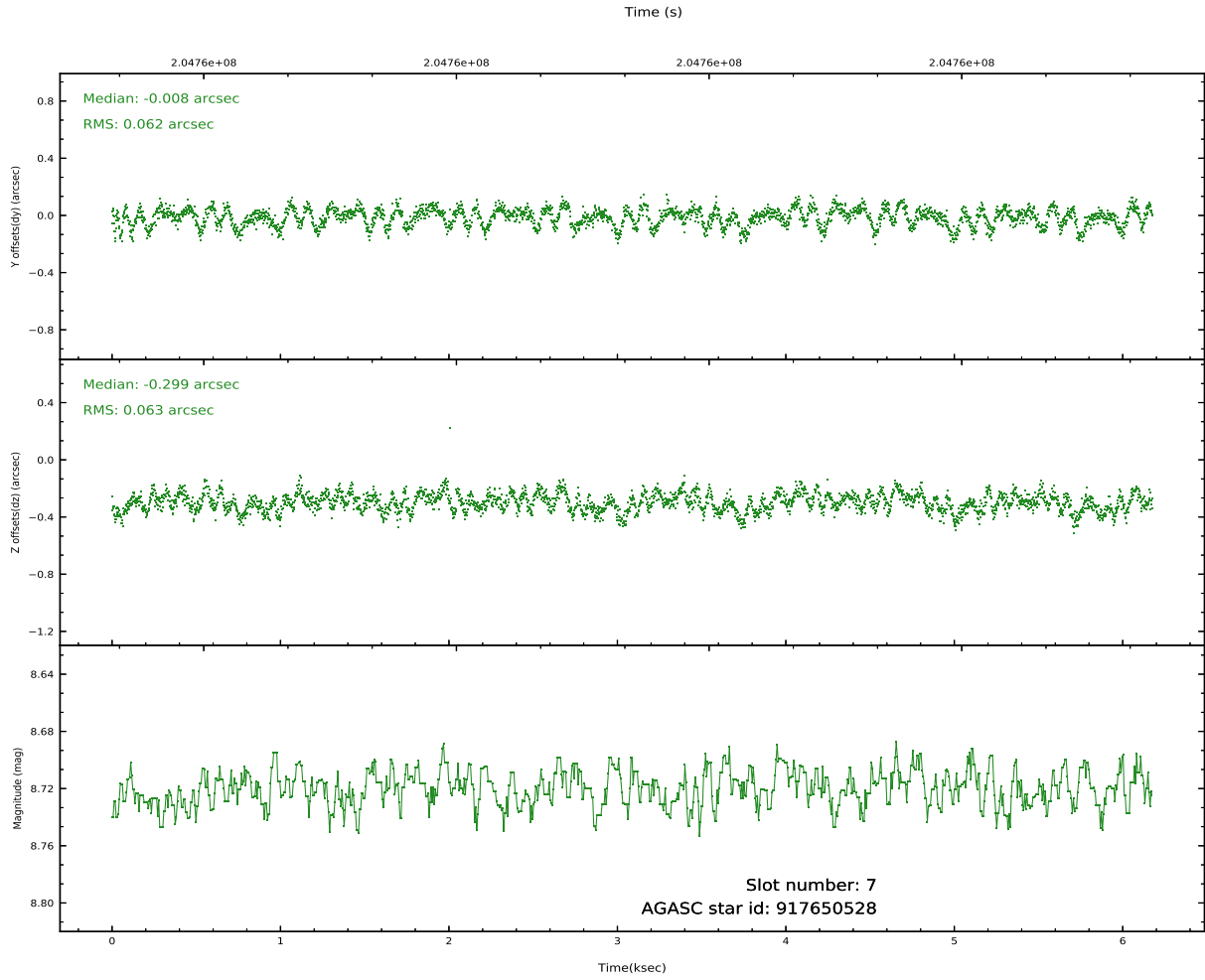
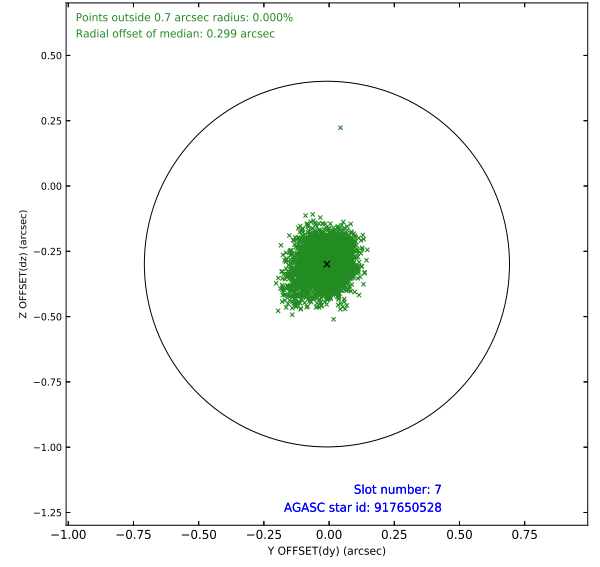
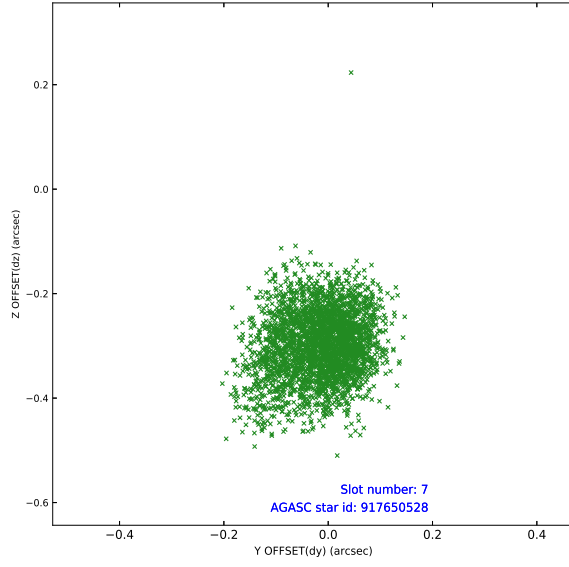


## 2.4.4 Slot 6



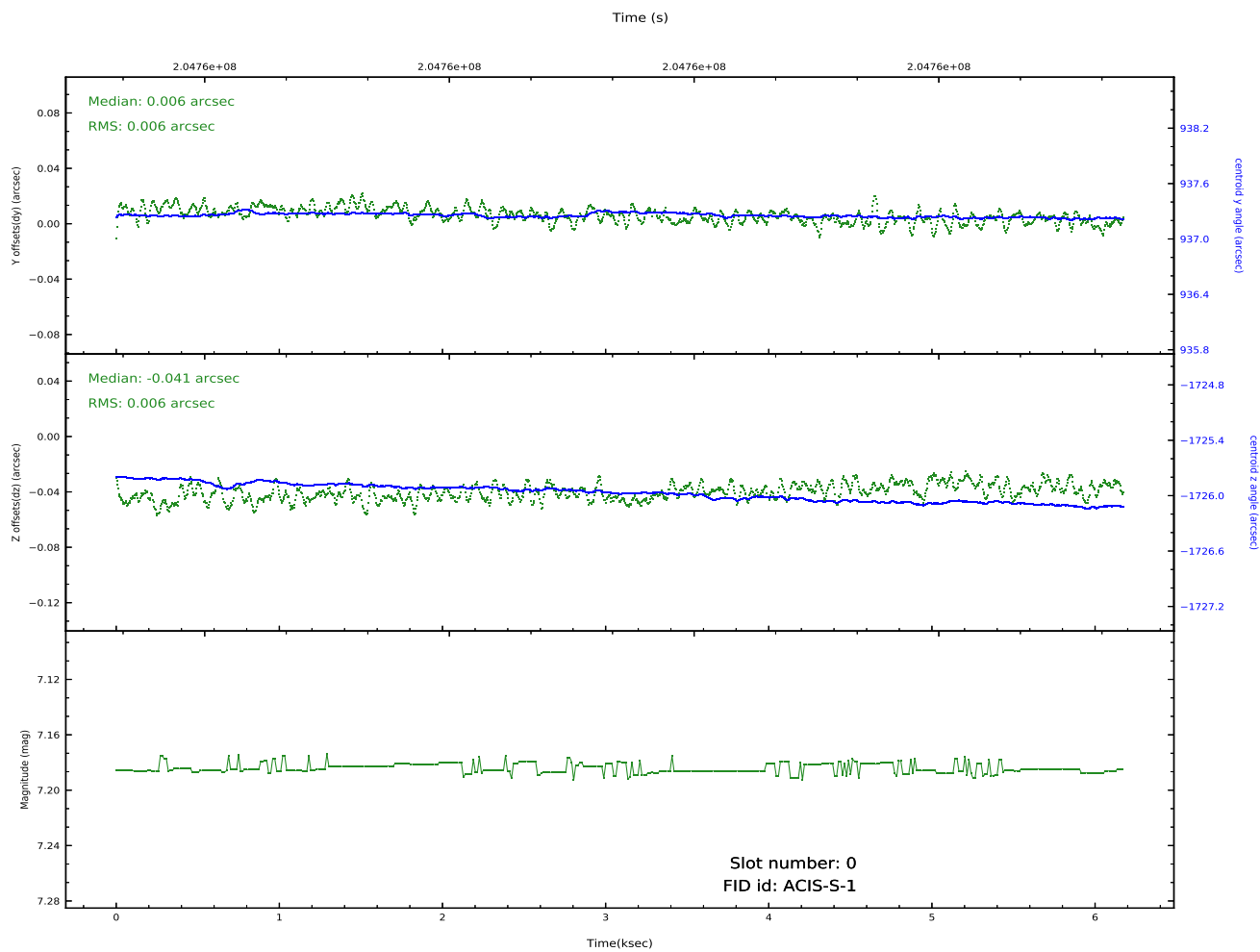
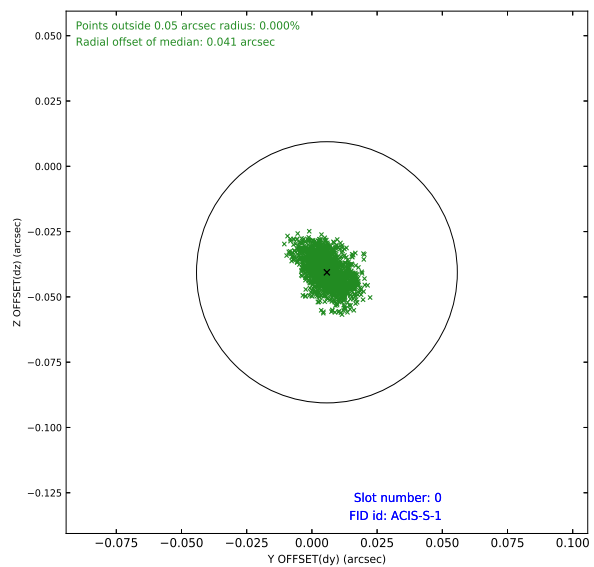
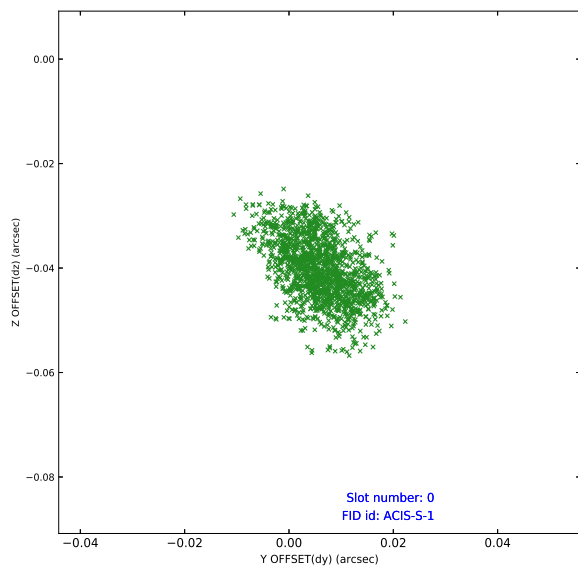


## 2.4.5 Slot 7

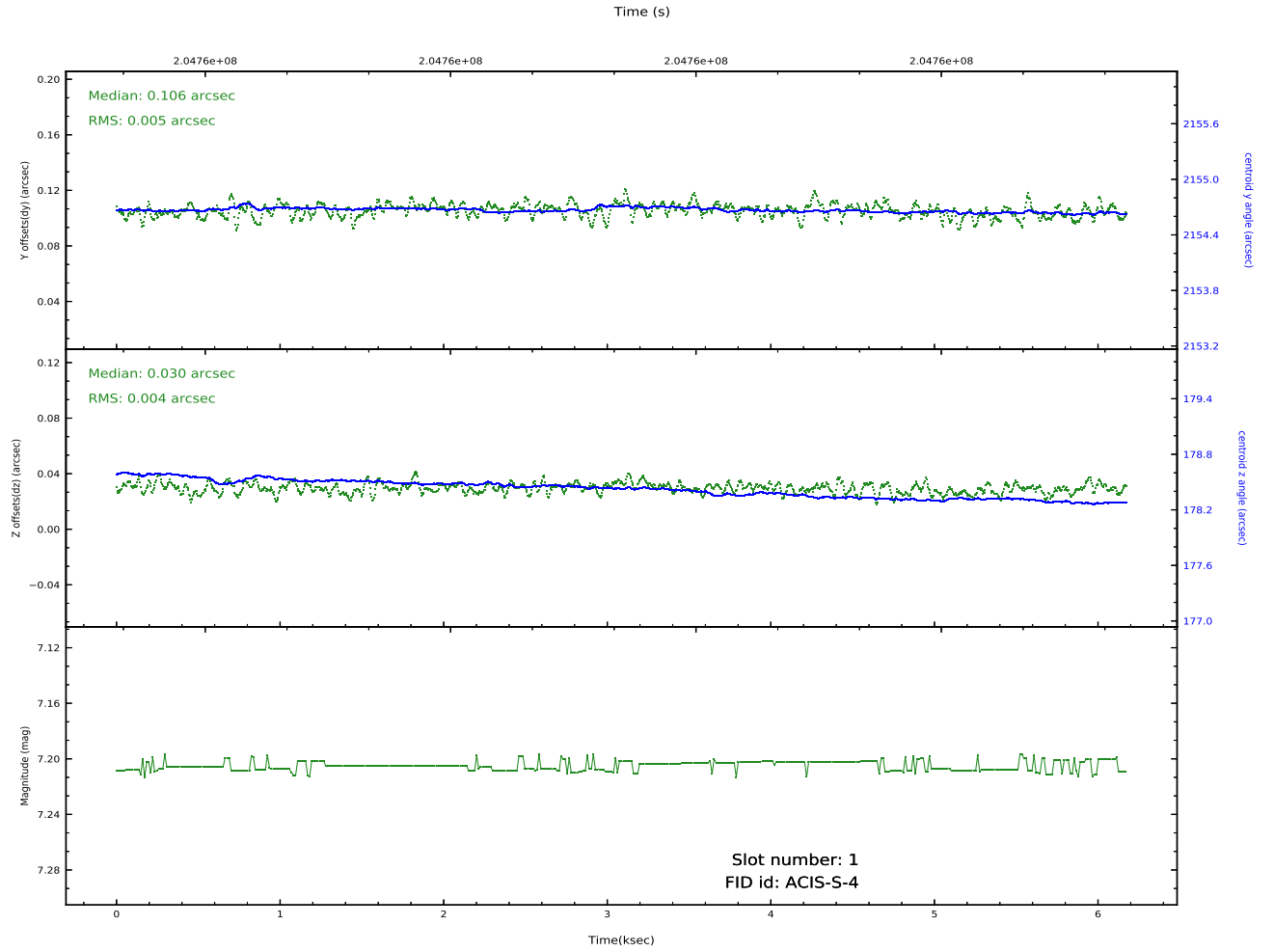
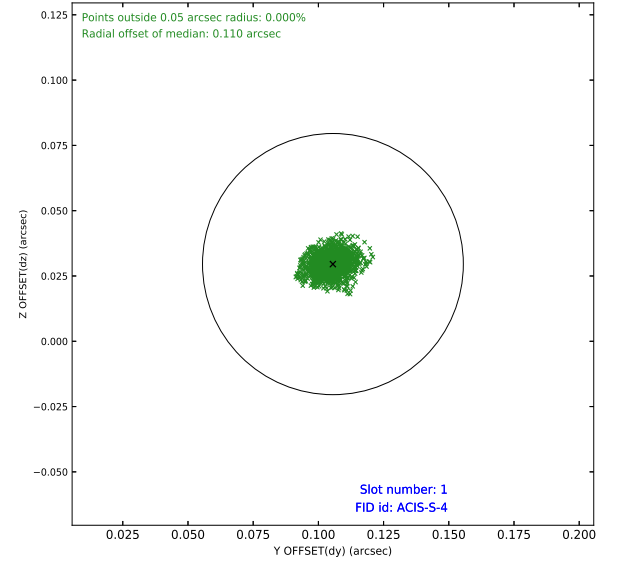
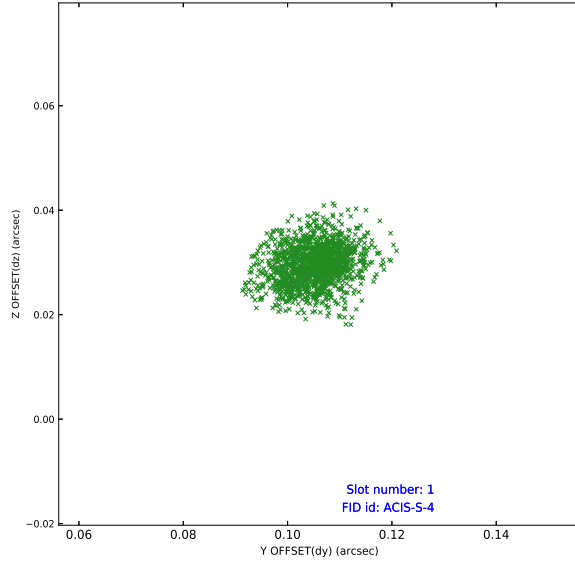


## 2.5 FID Slots

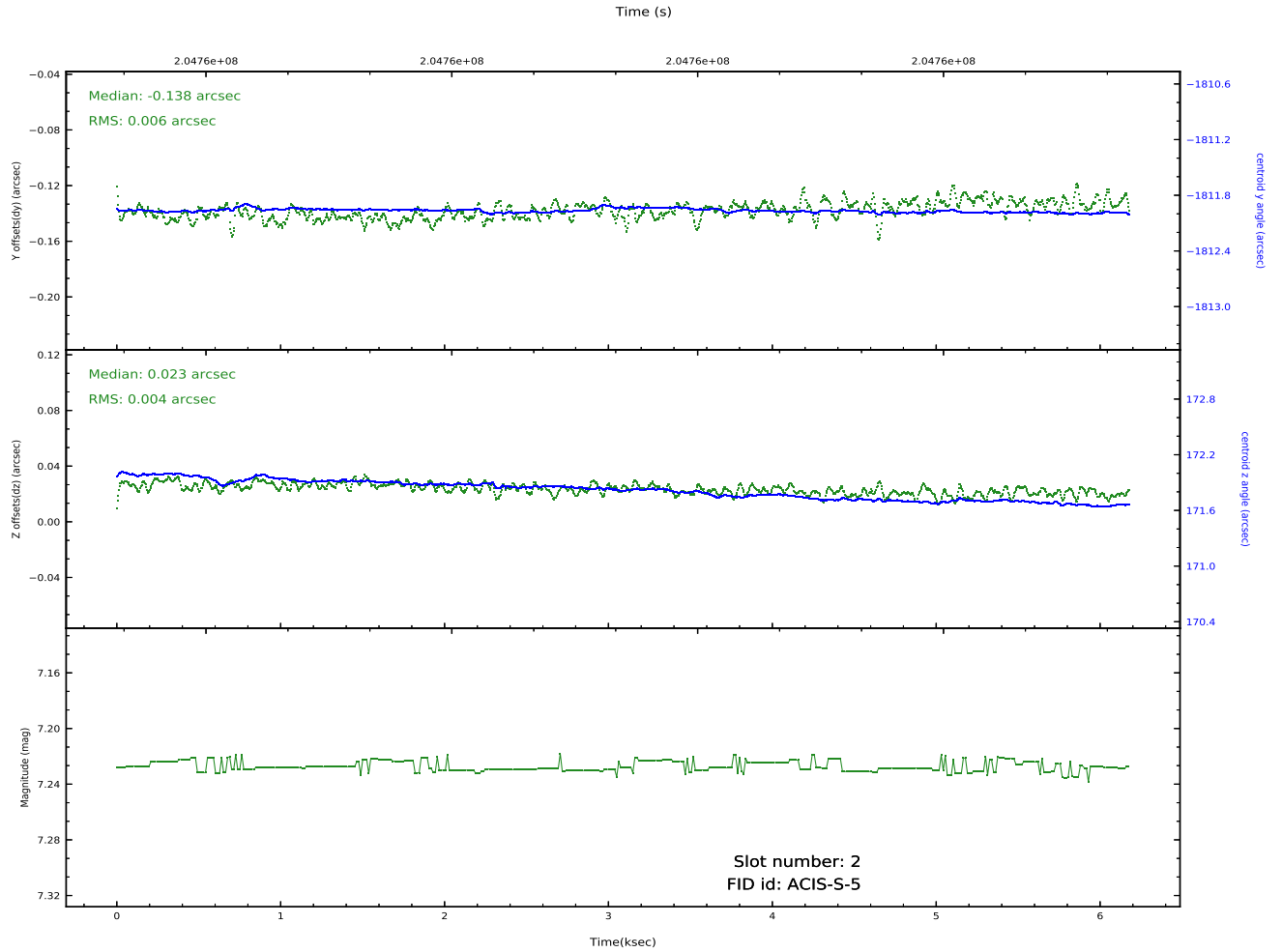
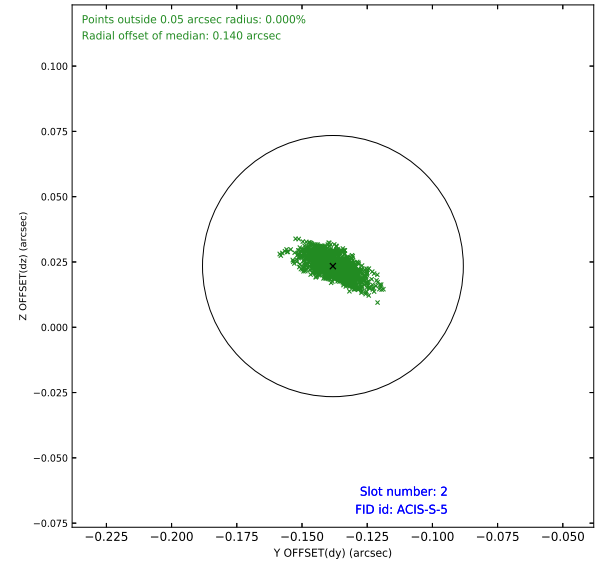
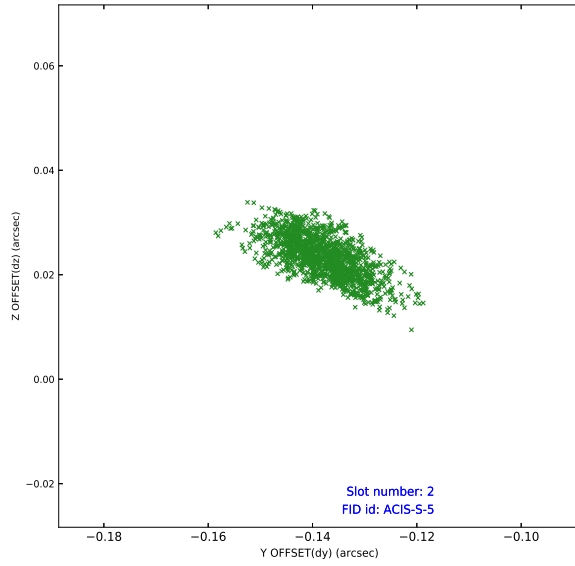
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2020.09.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.955

### A.2 Comments

Joint proposal with NOAO.