

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 19676 - L2 Version 2
Chandra X-Ray Center

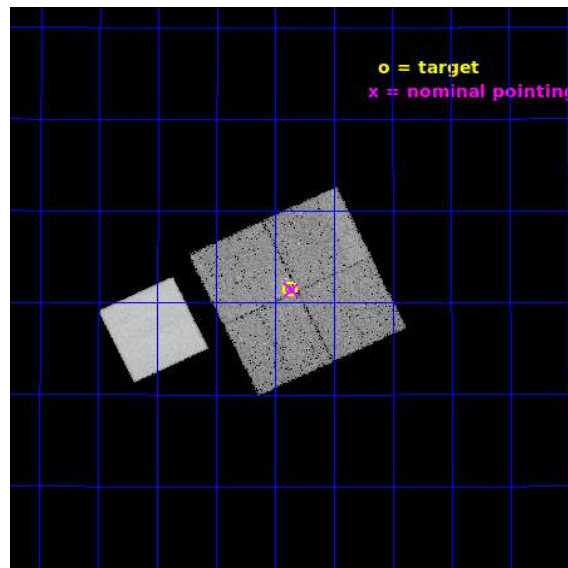
L2 Processing Date : Oct 26 2020

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1 Front

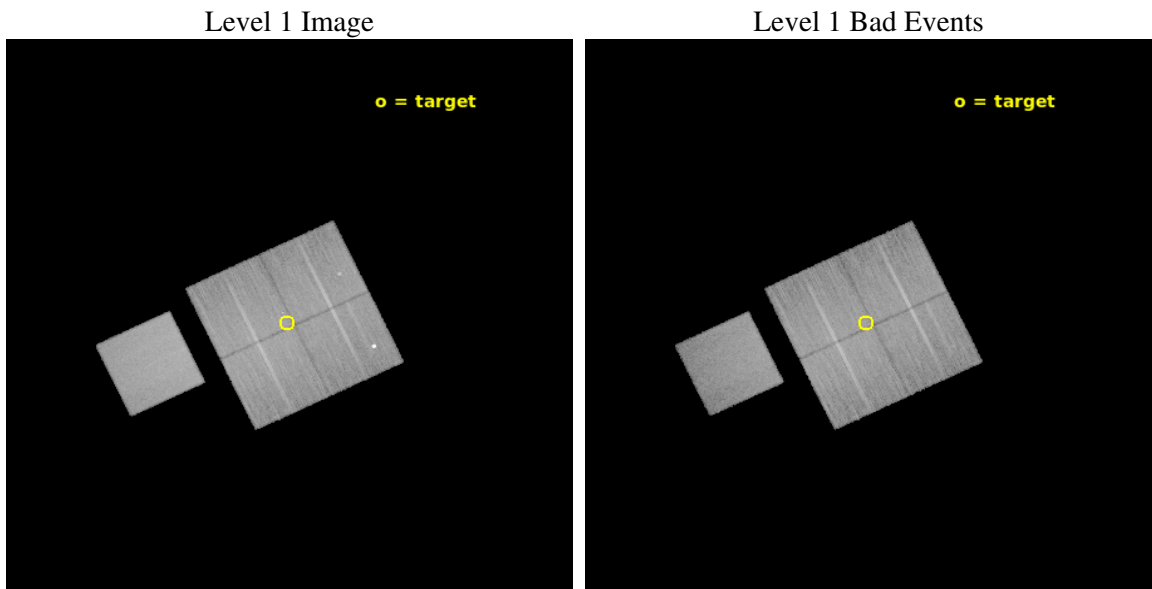
seq_num	901383	Sequence number
obs_id	19676	Observation id
title	The Chandra Deep Wide-Field Survey: Completing the new generation of Chandra extragalactic surveys	Proposal title
observer	Ryan Hickox	Principal investigator
object	Xbootes (CDWFS)	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	218.59266	Observer's specified target RA [deg]
dec_targ	35.025478	Observer's specified target Dec [deg]
ra_nom	218.58907693047	Nominal RA [deg]
dec_nom	35.023919808378	Nominal Dec [deg]
roll_nom	244.41939747883	Nominal Roll [deg]
revision	2	Processing version of data
ontime	25047.918182254	Sum of GTIs [s]
livetime	24720.648691194	Livetime [s]
ontime0	25054.200192809	Sum of GTIs [s]
ontime1	25054.200192809	Sum of GTIs [s]
ontime2	25047.918201923	Sum of GTIs [s]
ontime3	25047.918182254	Sum of GTIs [s]
ontime7	25054.200192809	Sum of GTIs [s]
l2events	172374	Number of level 2 events



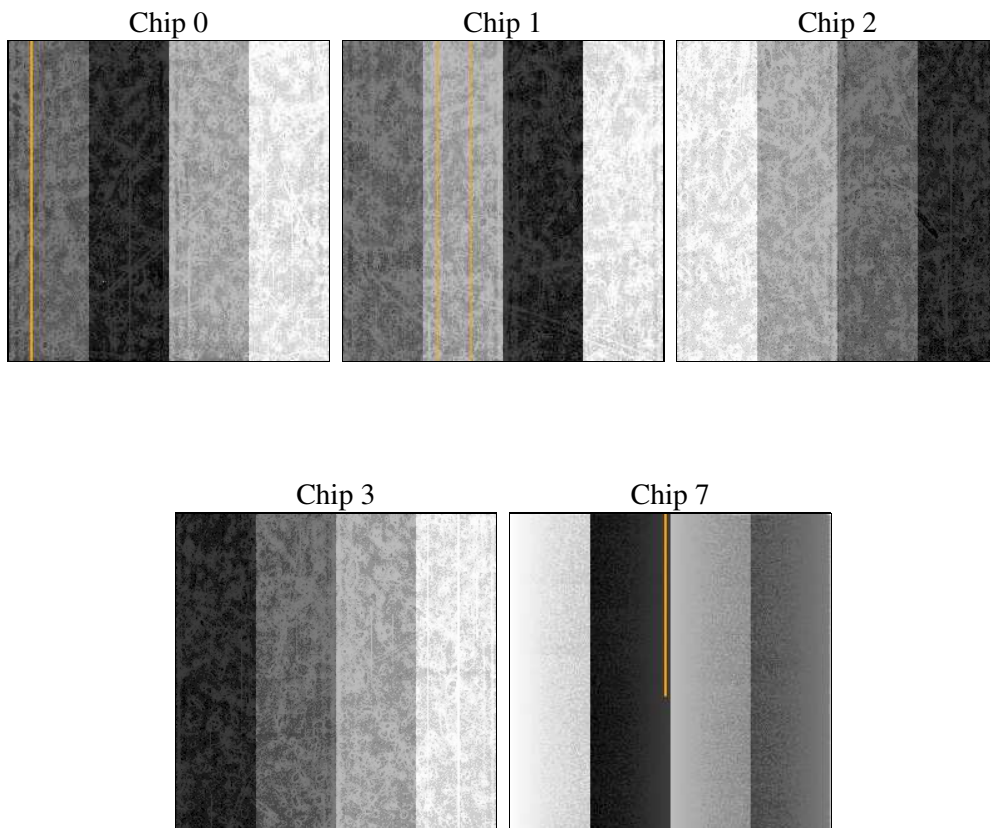
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	25000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	25047.918182254	Sum of GTIs [s]
caldsver	4.9.3	 	ontime0	25054.200192809	Sum of GTIs [s]
date	2020-10-26T19:31:55	Date and time of file creation	ontime1	25054.200192809	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	25047.918201923	Sum of GTIs [s]
			ontime3	25047.918182254	Sum of GTIs [s]
			ontime7	25054.200192809	Sum of GTIs [s]
			l1events	976637	Number of level 1 events

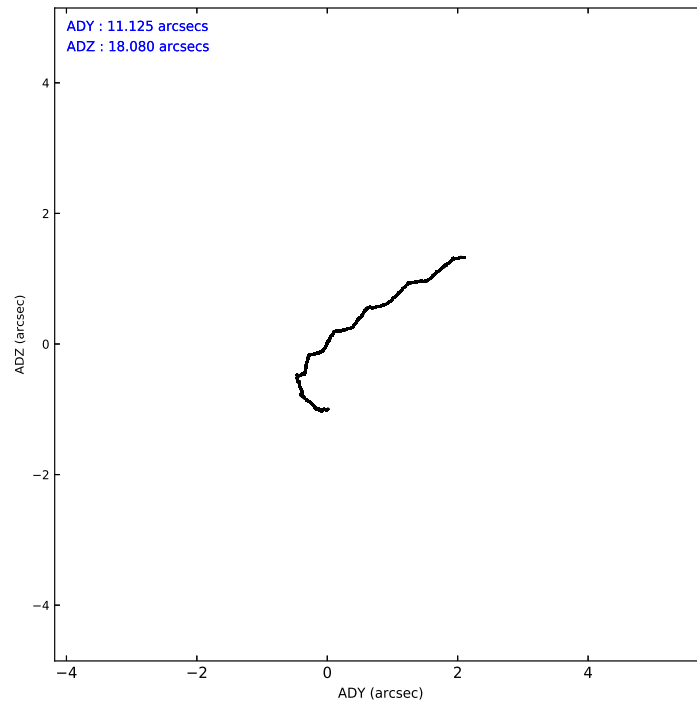
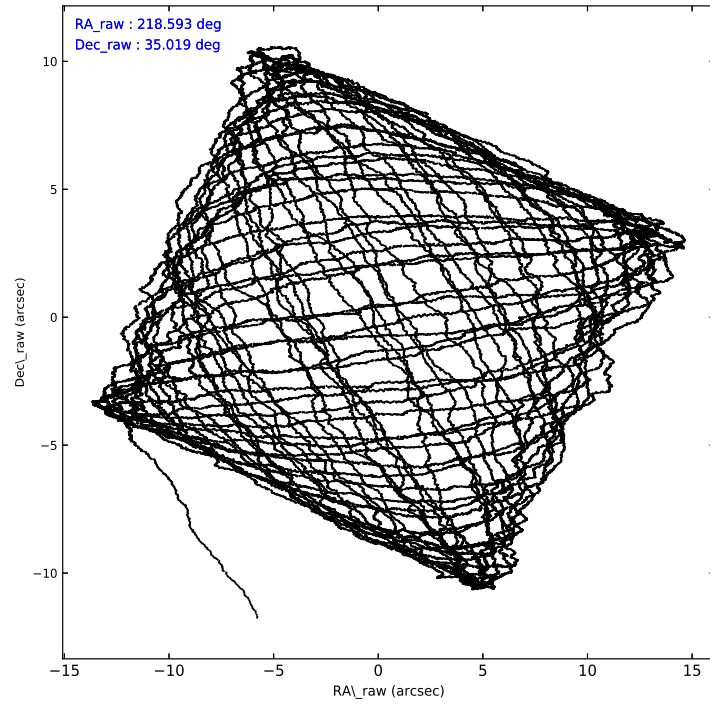
2.1.4 Events

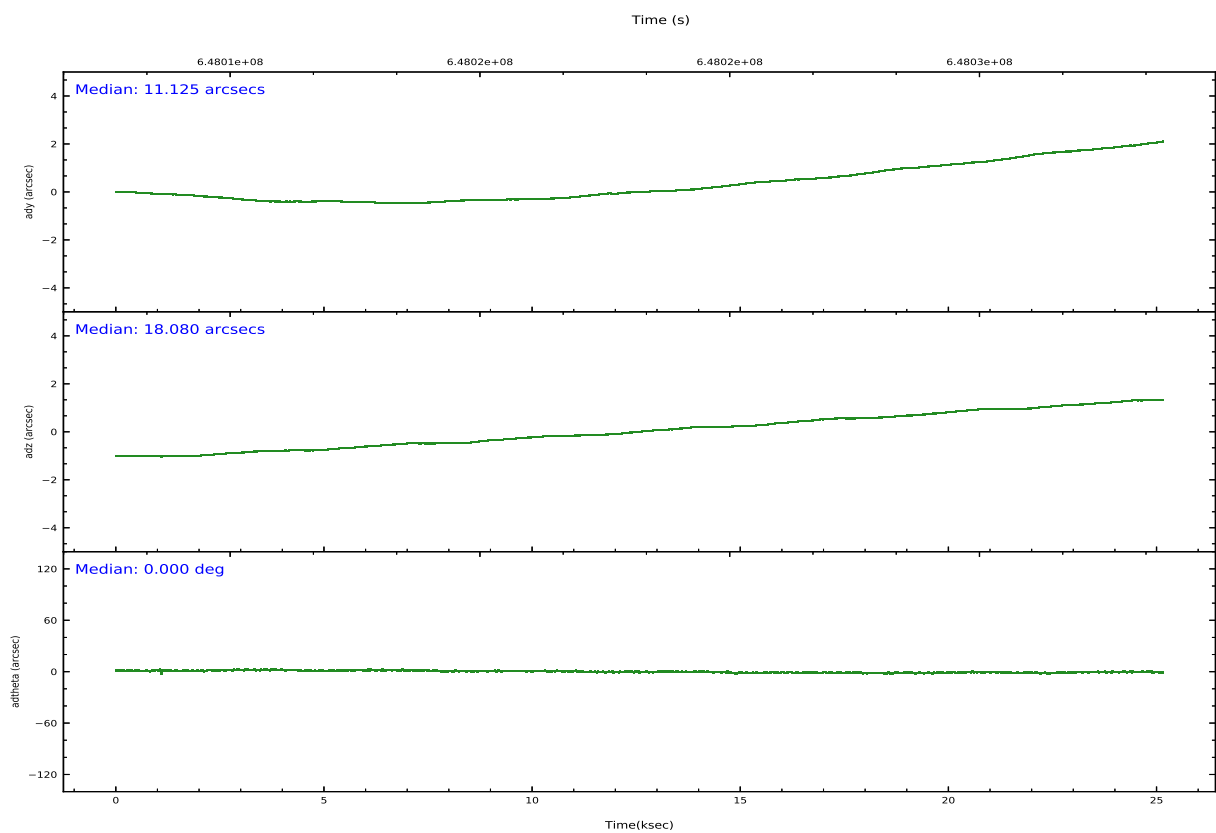
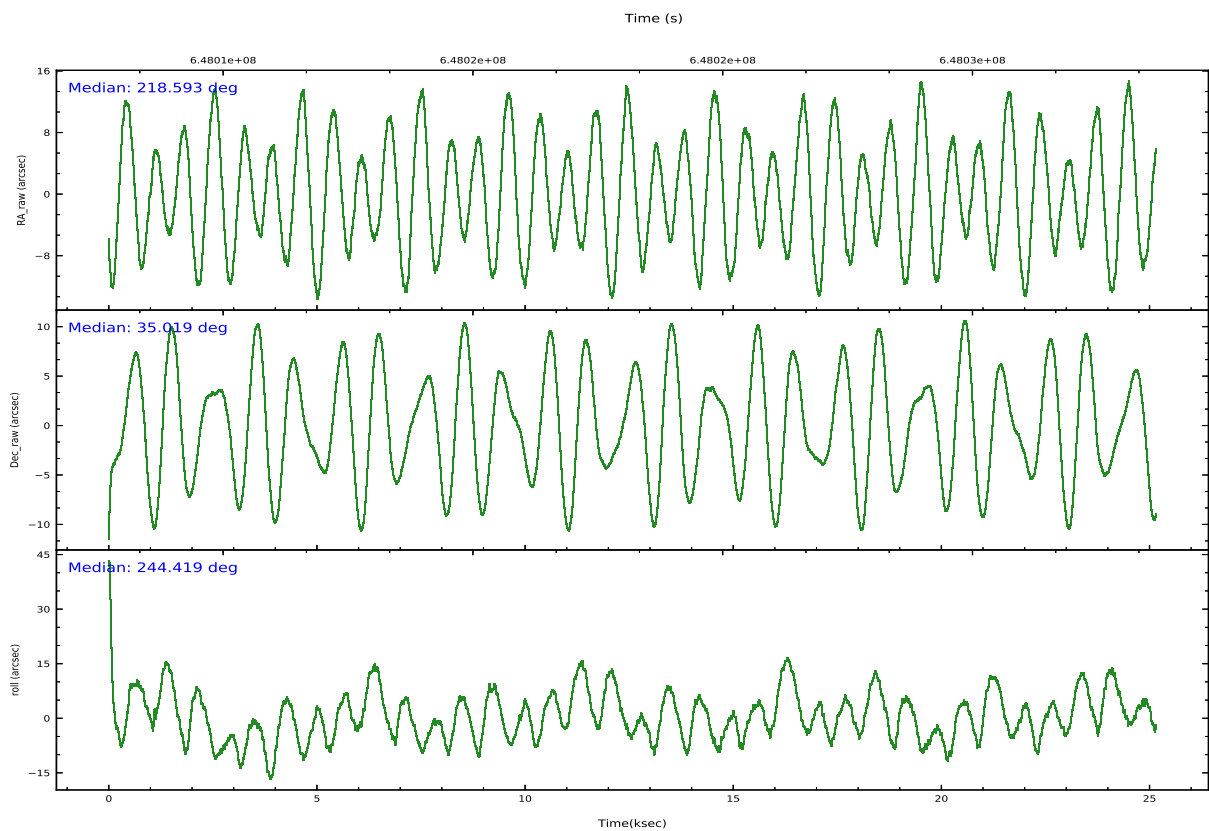
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	179310	176333	192269	185109	243616	grade 0 events	14693	8399	7334	7408	8814
rejected events	150561	152281	171613	164835	138511		8%	4%	3%	4%	3%
rejected %	83%	86%	89%	89%	56%	grade 1 events	129	99	110	109	357
							0%	0%	0%	0%	0%
						grade 2 events	5308	6212	5122	4356	22338
							2%	3%	2%	2%	9%
						grade 3 events	2172	2148	1999	2079	8222
							1%	1%	1%	1%	3%
						grade 4 events	2062	2180	2120	2172	8207
							1%	1%	1%	1%	3%
						grade 5 events	7795	8262	7593	8891	24249
							4%	4%	3%	4%	9%
						grade 6 events	4515	5116	4084	4260	57540
							2%	2%	2%	2%	23%
						grade 7 events	142636	143917	163907	155834	113889
							79%	81%	85%	84%	46%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-01237	ACIS-01237	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	218.590240	218.58907693047	CCD I2 on	Y	Y
[deg] Pointing Dec	35.046207	35.023919808378	CCD I3 on	Y	Y
[deg] Pointing Roll	244.225871	244.41939747883	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	N	N
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O1	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	648007412.184000	648006374.60931	CCD S5 on	N	N
Observation start date	2018-07-15T02:02:23	2018-07-15T01:46:14	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	648032412.184000	648033286.49841	On-chip summing requested	N	N
Observation end date	2018-07-15T08:59:03	2018-07-15T09:14:46	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



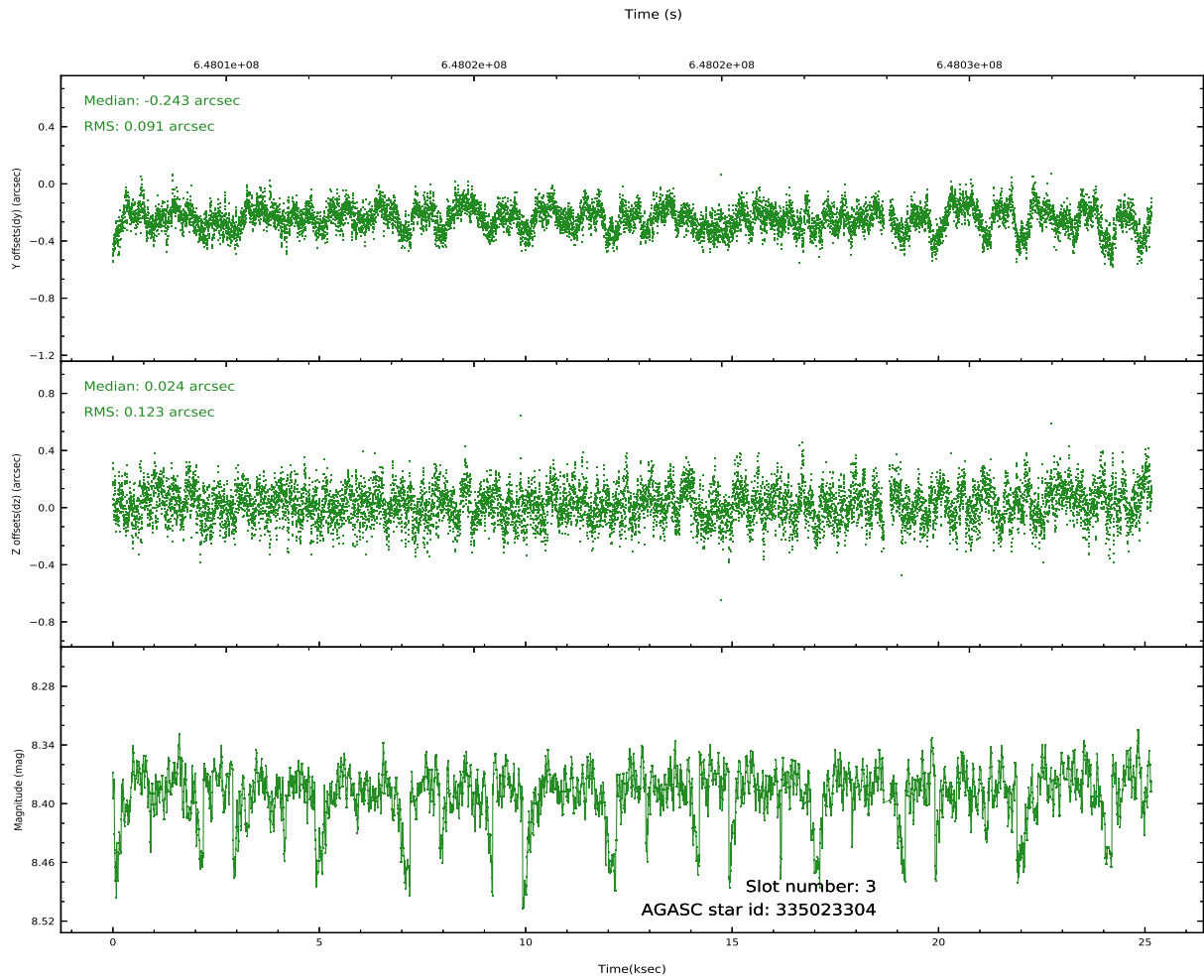
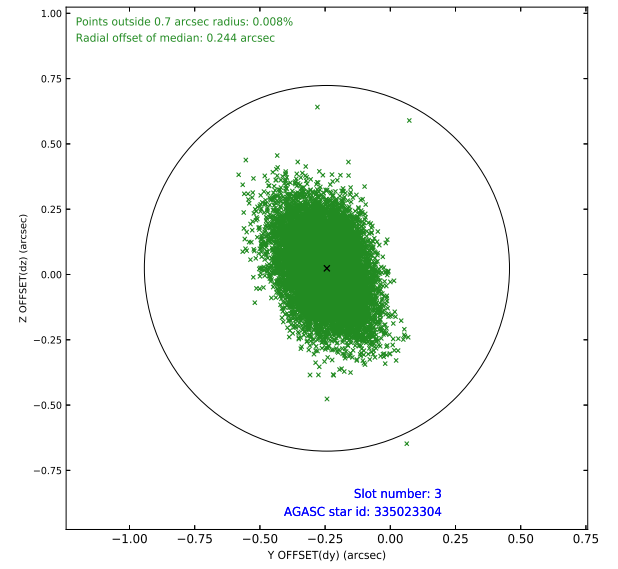
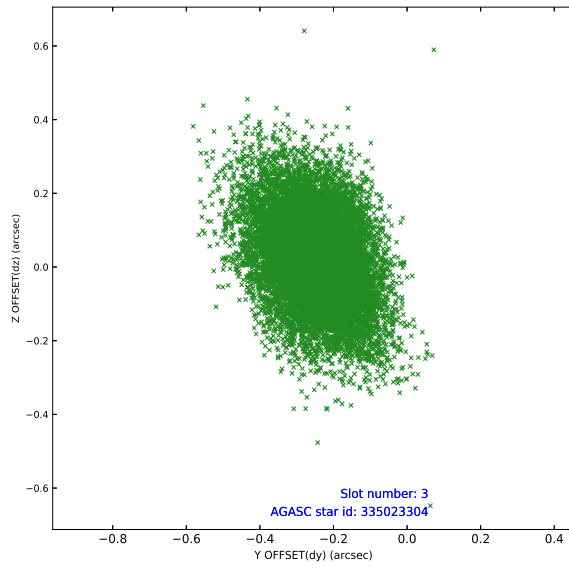


Slot Statistics

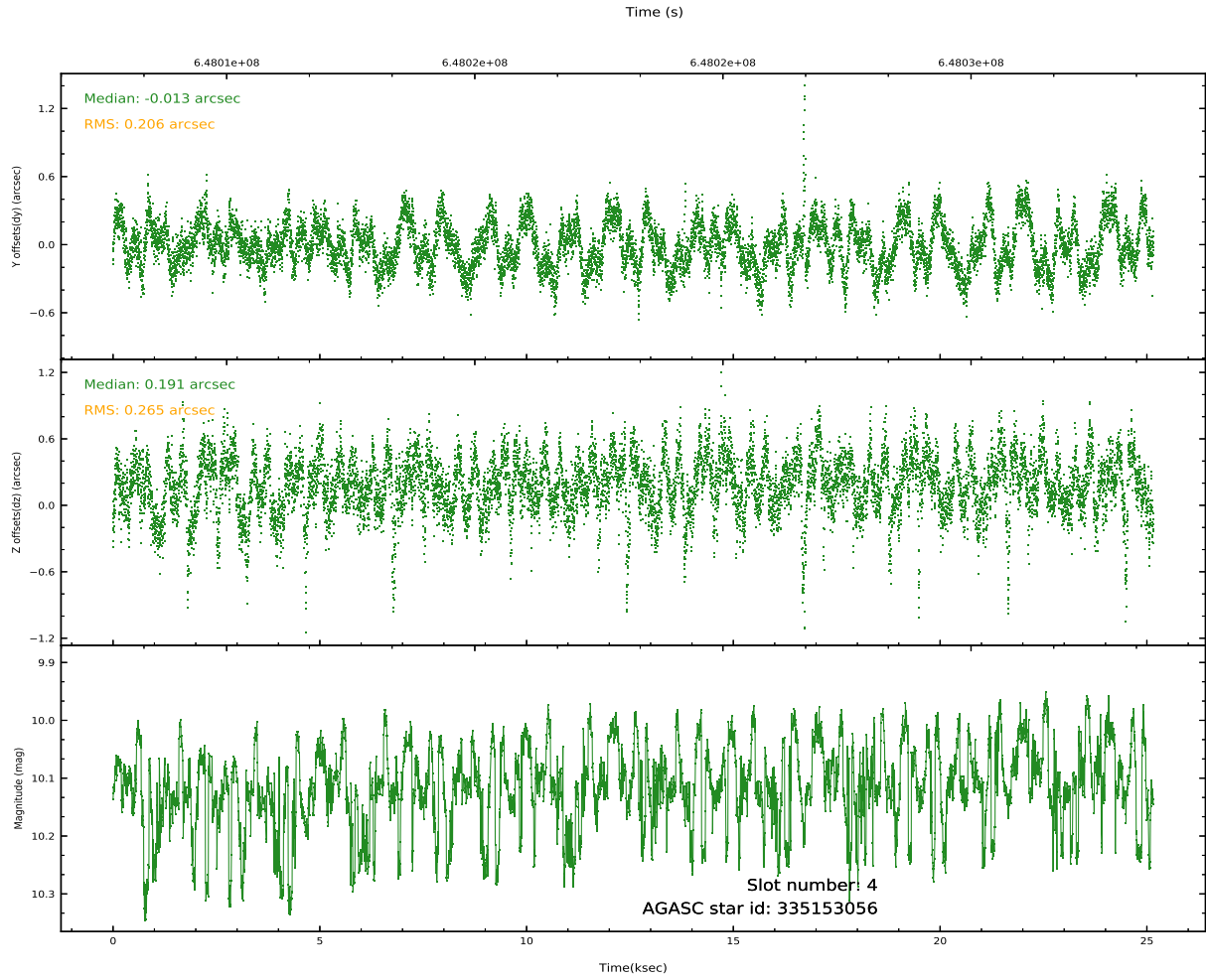
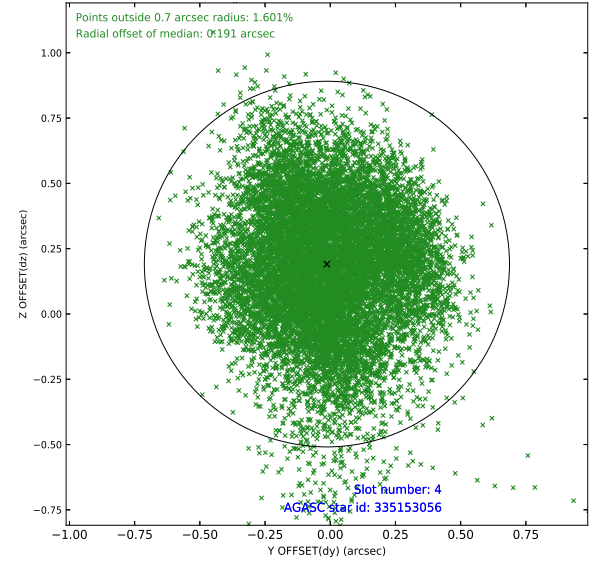
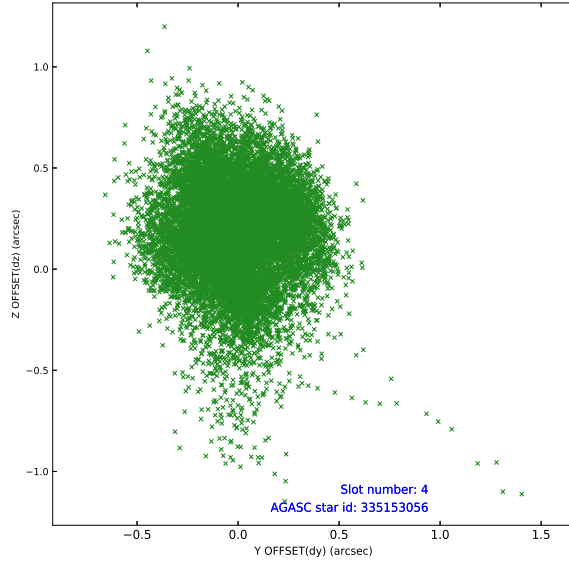
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.16	6137	1.000	0.157	-0.081	0.022	0.055	0.000000	0.000000	928.20	-841
1	FID		ACIS-I-5	7.15	6136	1.000	-0.279	0.142	0.010	0.017	0.000000	0.000000	-1820.19	1055
2	FID		ACIS-I-6	7.16	6137	1.000	0.029	0.010	0.017	0.050	0.000000	0.000000	393.60	1700
3	GUIDE	used	335023304	8.39	12195	1.000	-0.243	0.024	0.160	0.269	218.883608	34.686545	786.88	1344
4	GUIDE	used	335153056	10.11	12241	1.000	-0.013	0.191	0.352	0.549	219.264627	34.869152	-298.03	2067
5	GUIDE	used	335414336	8.93	12257	1.000	-0.146	0.096	0.182	0.304	218.979022	35.090910	-644.74	960
6	GUIDE	used	335023248	8.92	12265	1.000	0.145	-0.330	0.170	0.291	217.634832	34.944512	1544.19	-2385
7	GUIDE	used	335025040	9.85	12215	1.000	0.254	0.029	0.263	0.442	218.601670	34.305240	2387.83	1190

2.4 Star Slots

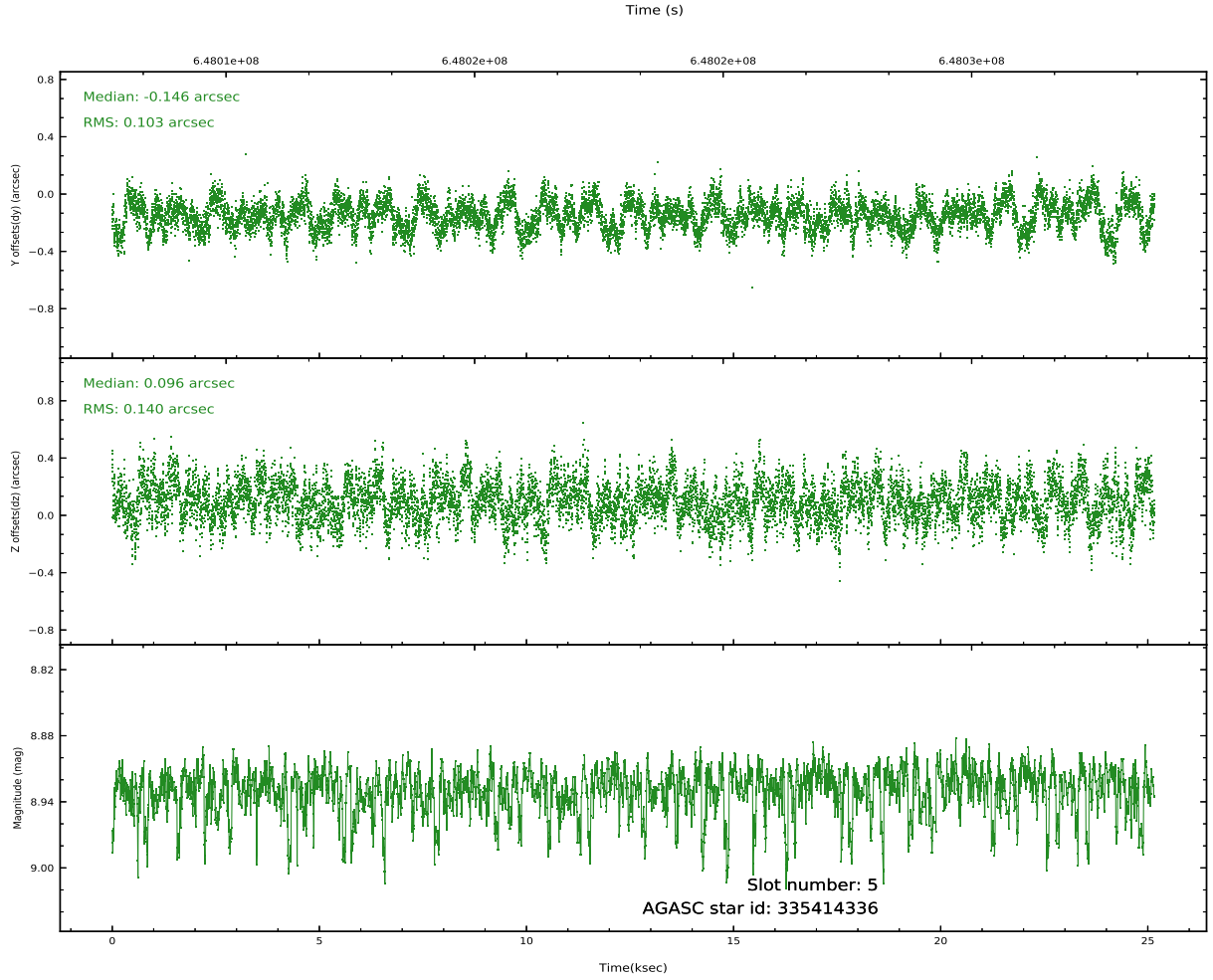
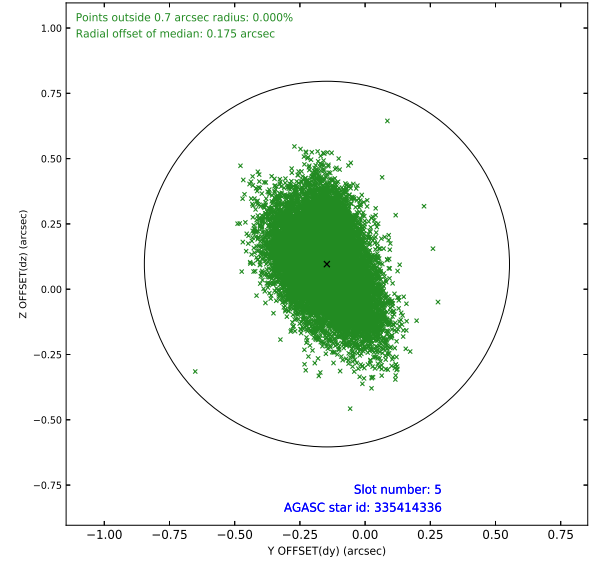
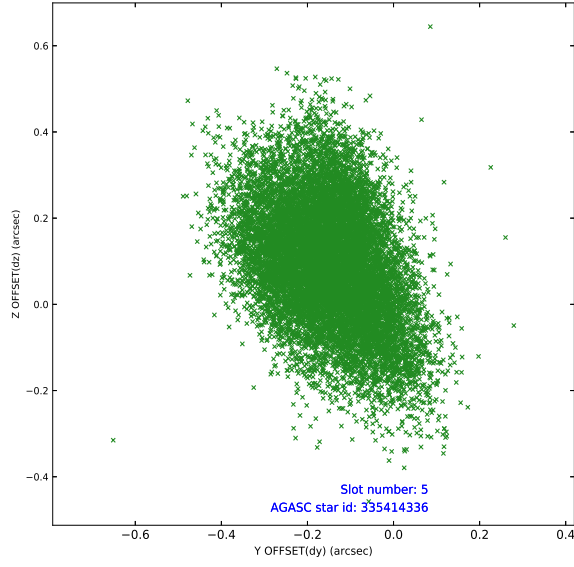
2.4.1 Slot 3



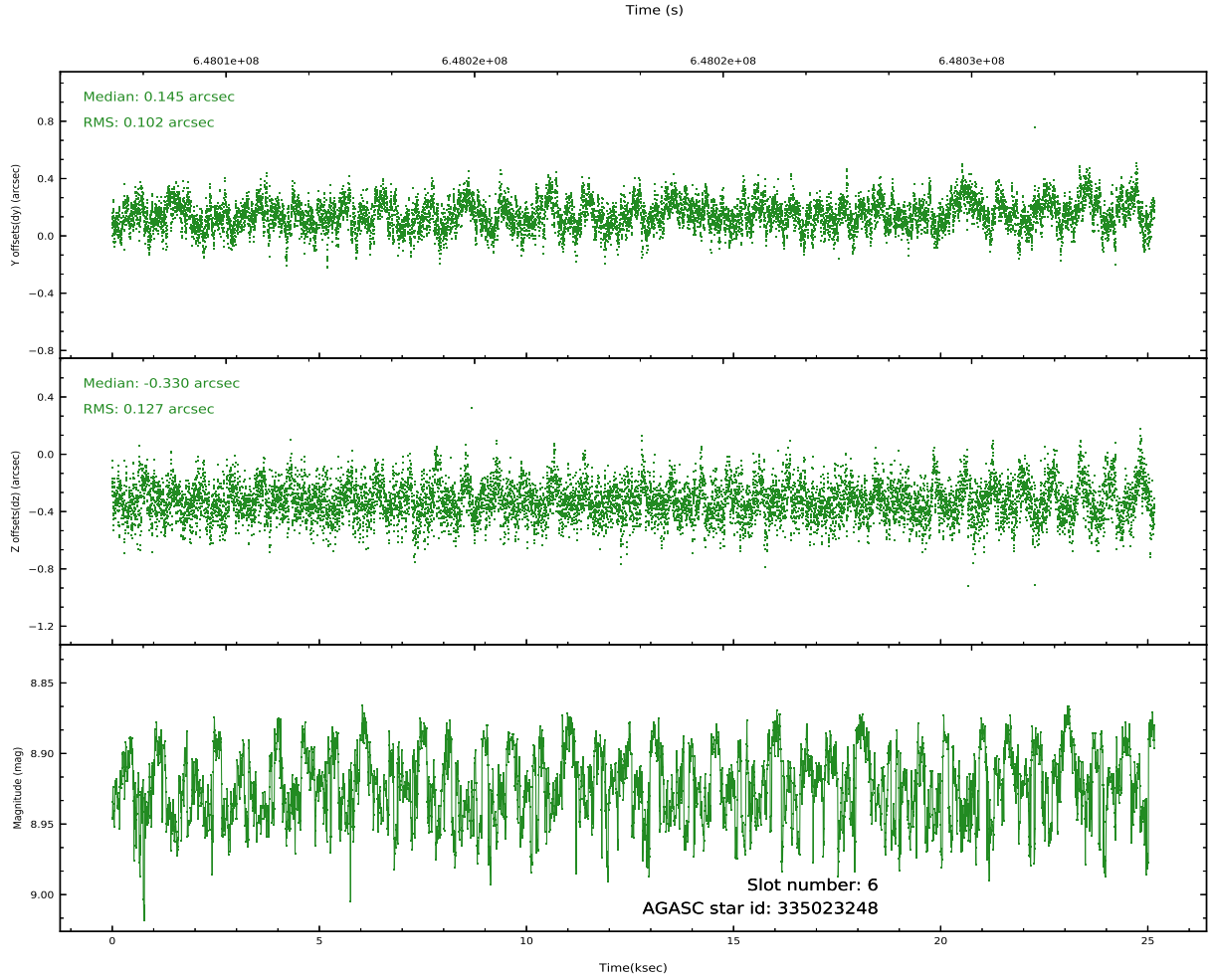
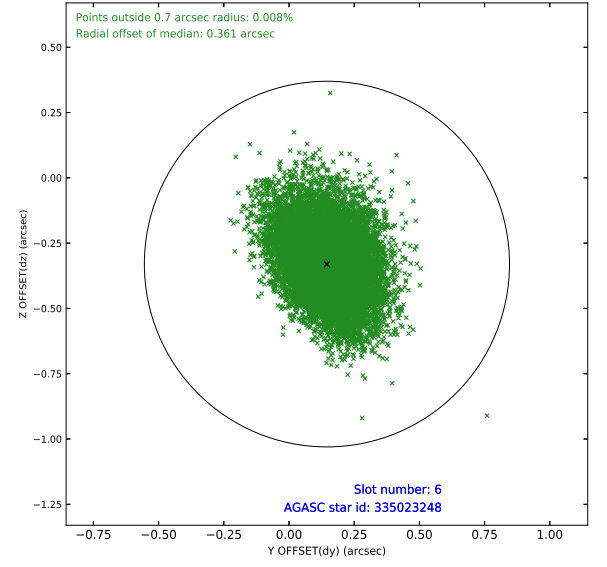
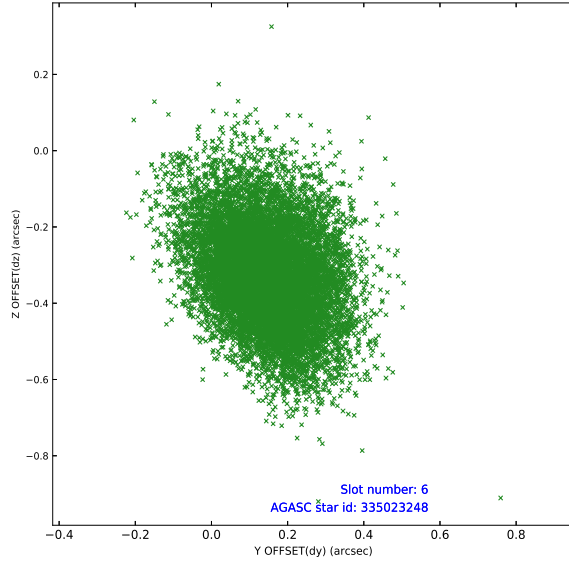
2.4.2 Slot 4



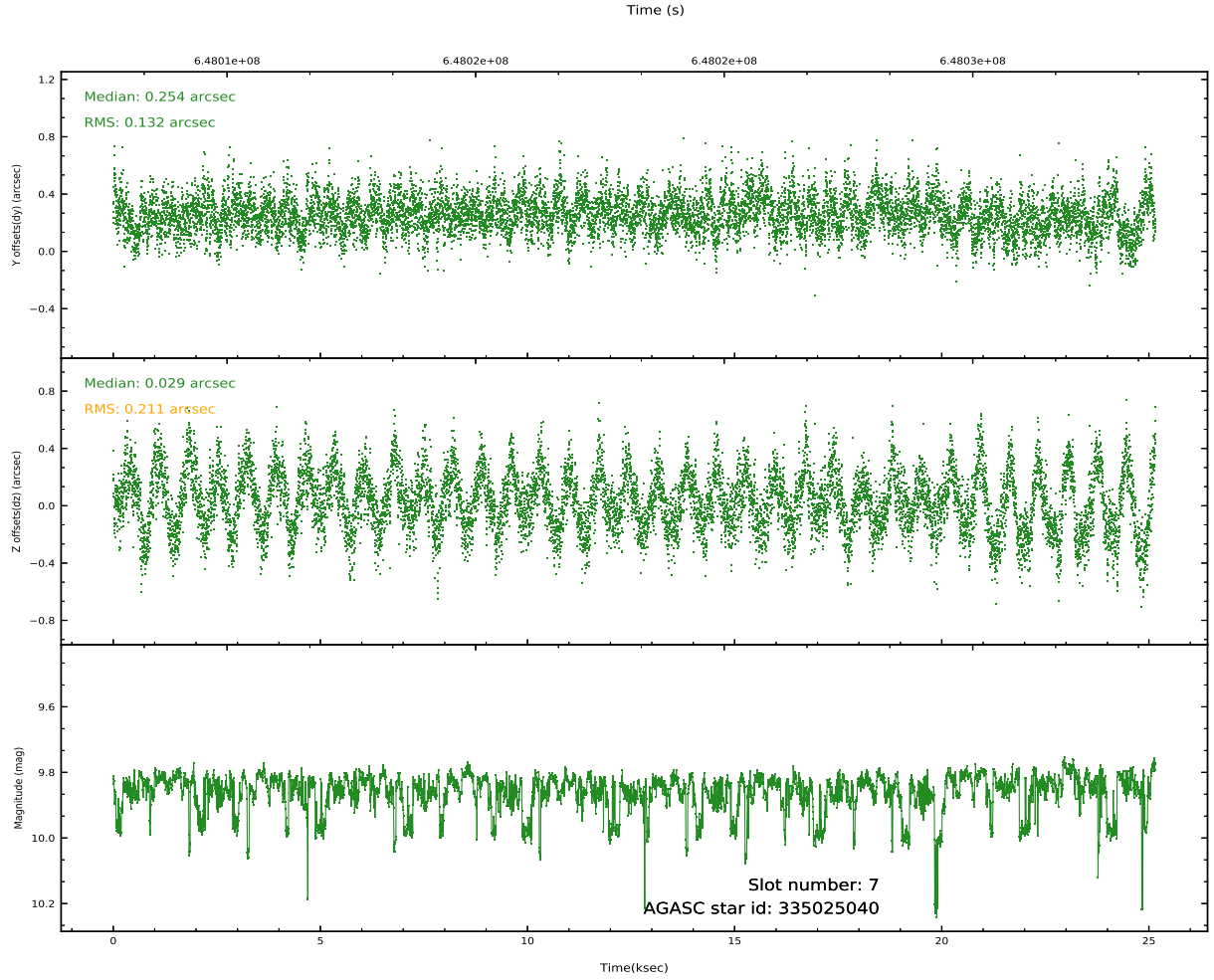
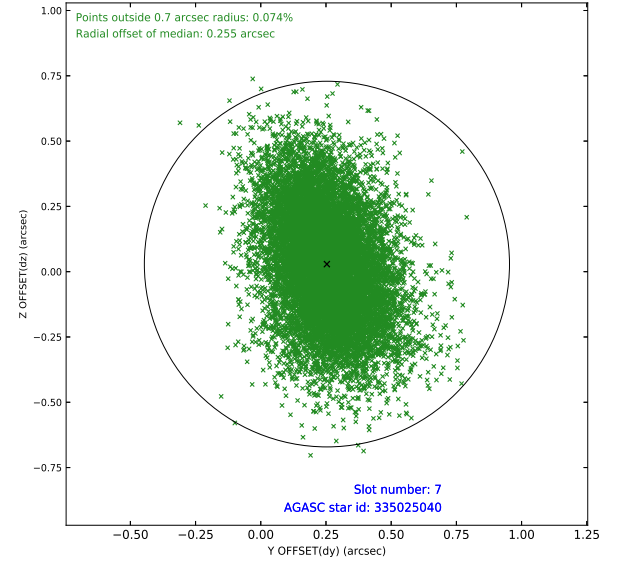
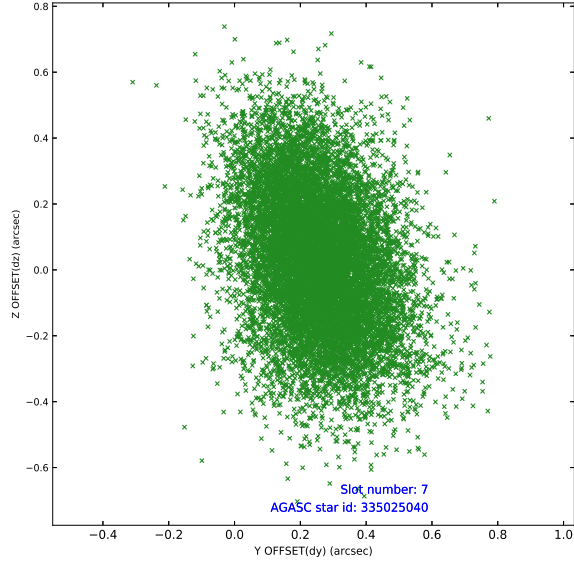
2.4.3 Slot 5



2.4.4 Slot 6

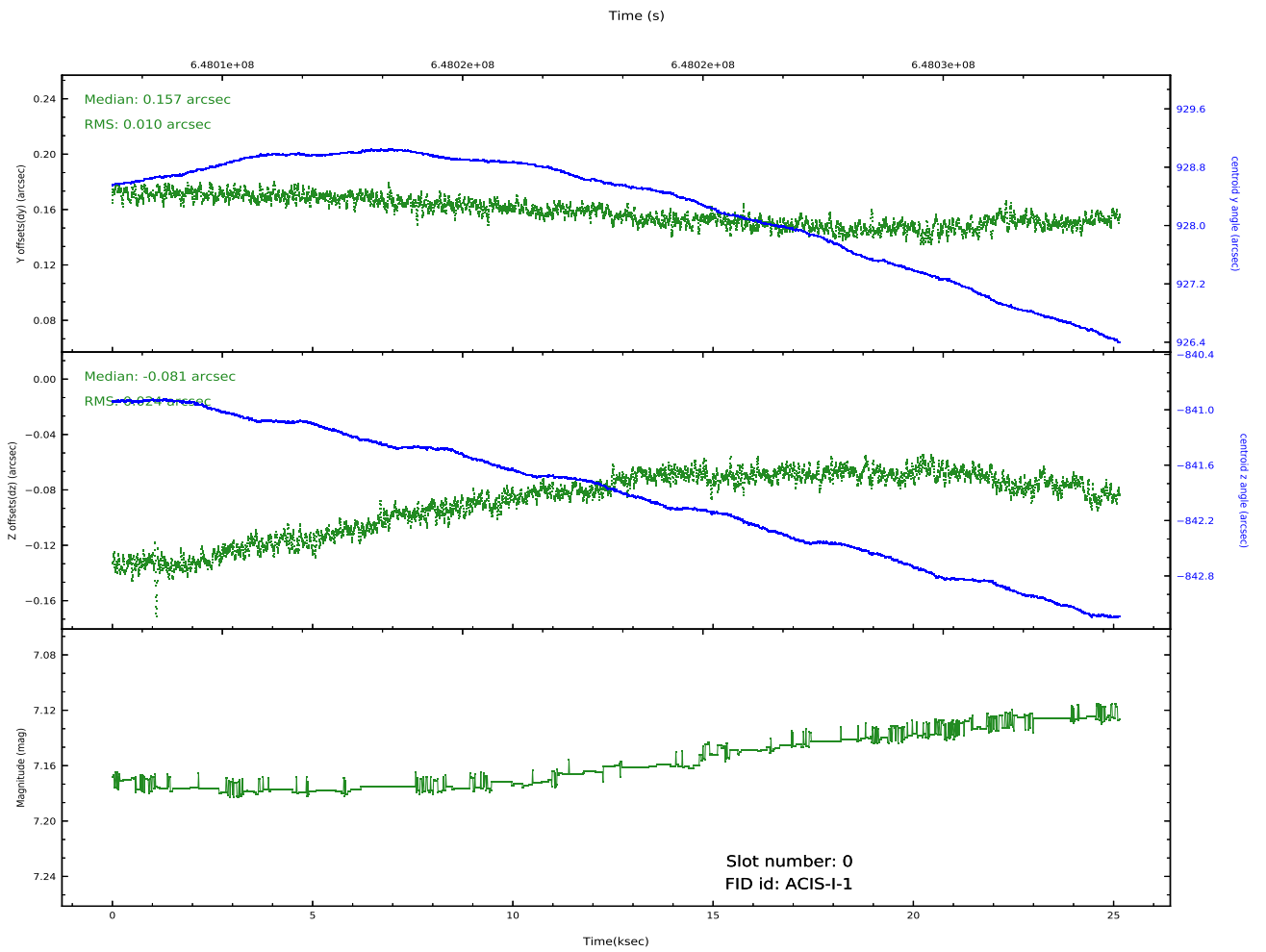
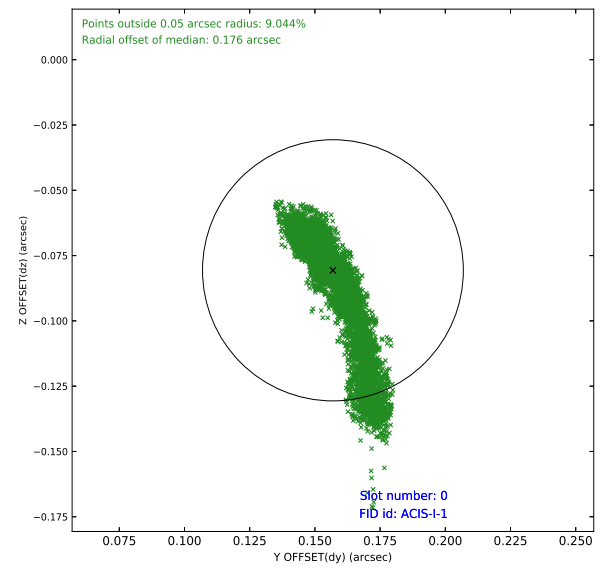
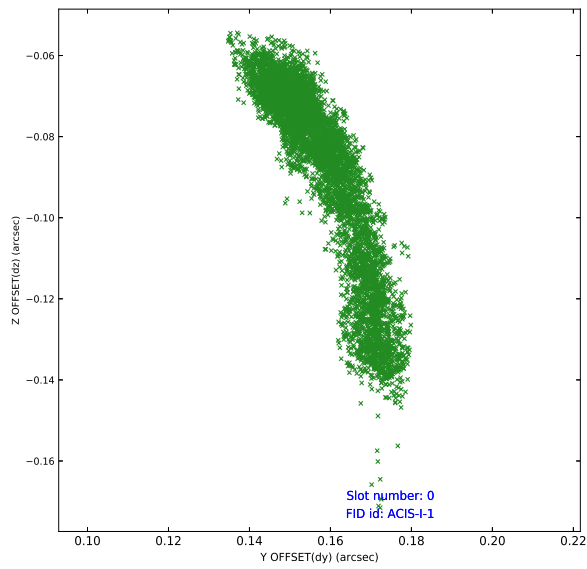


2.4.5 Slot 7

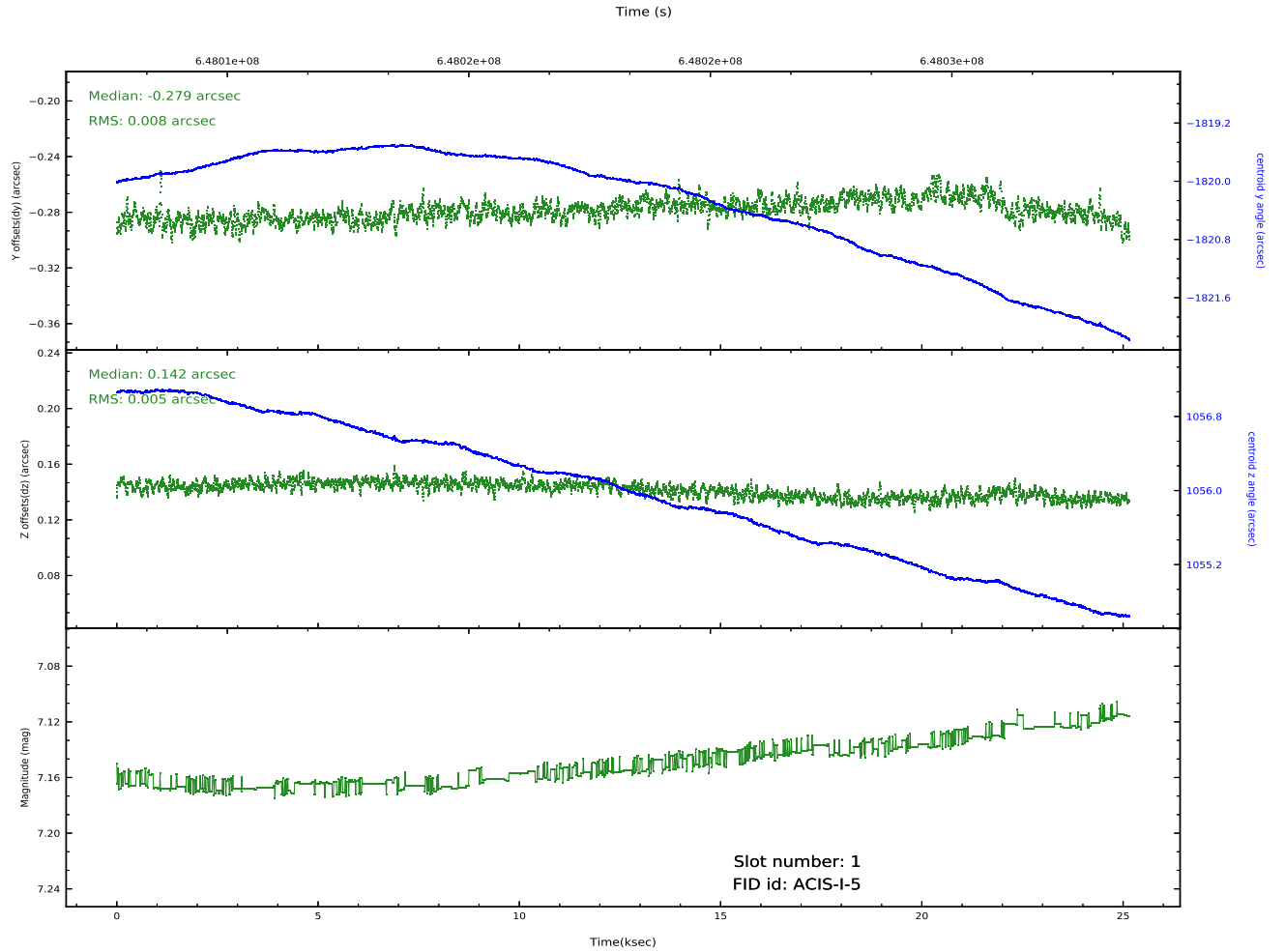
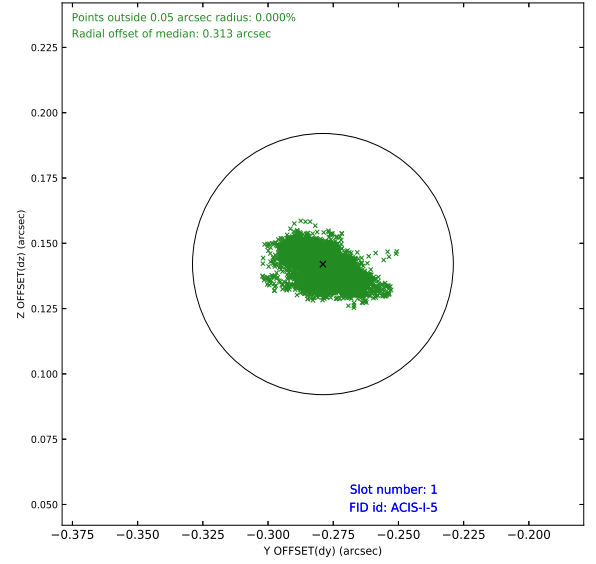
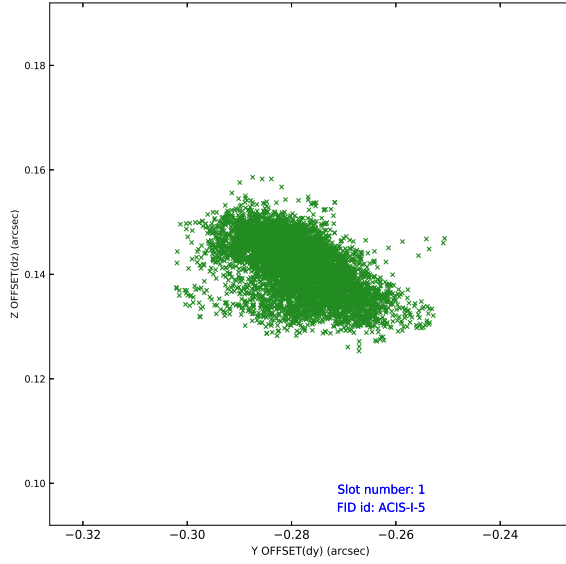


2.5 FID Slots

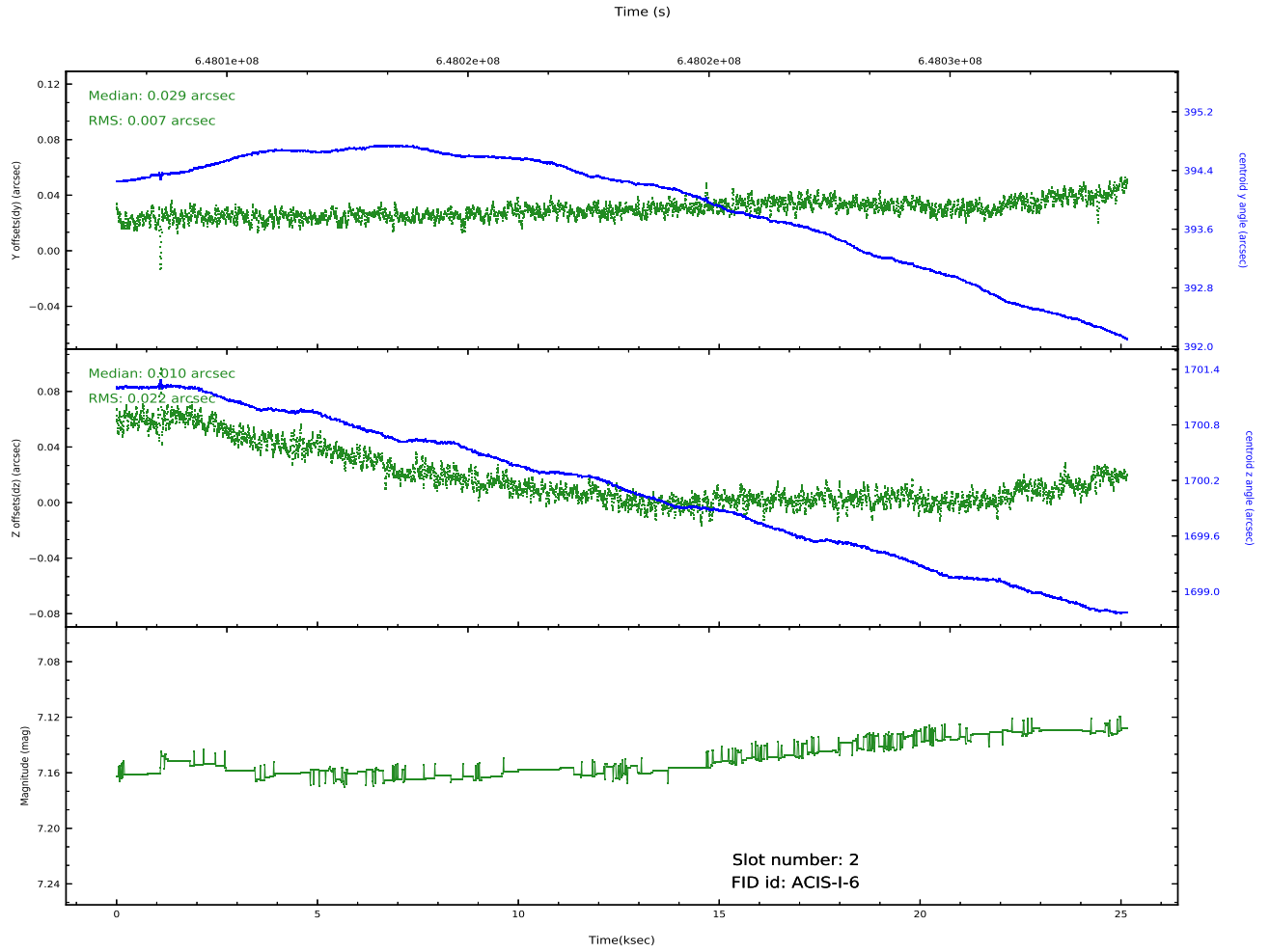
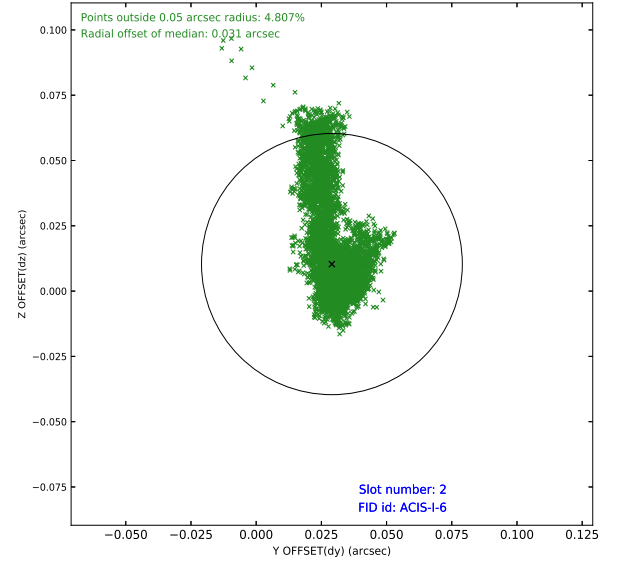
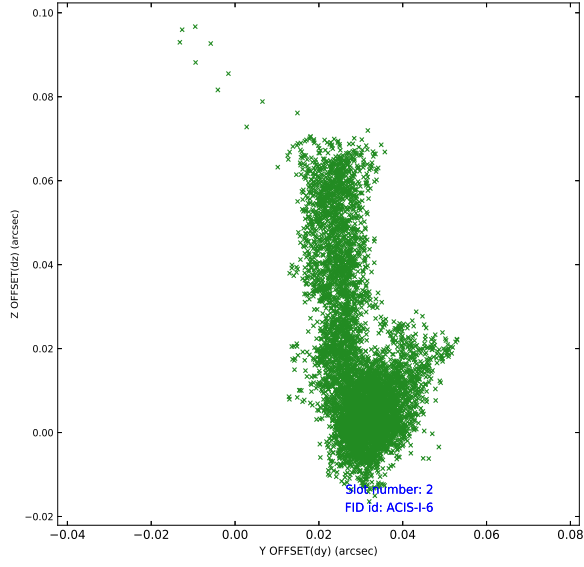
2.5.1 Slot 0



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)	2020.10.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	25.047918182135

A.2 Comments