

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 6397 - L2 Version 3
Chandra X-Ray Center

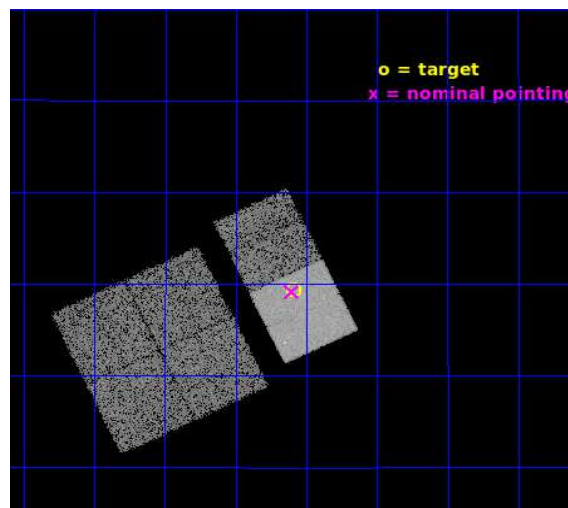
L2 Processing Date : Oct 11 2020

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

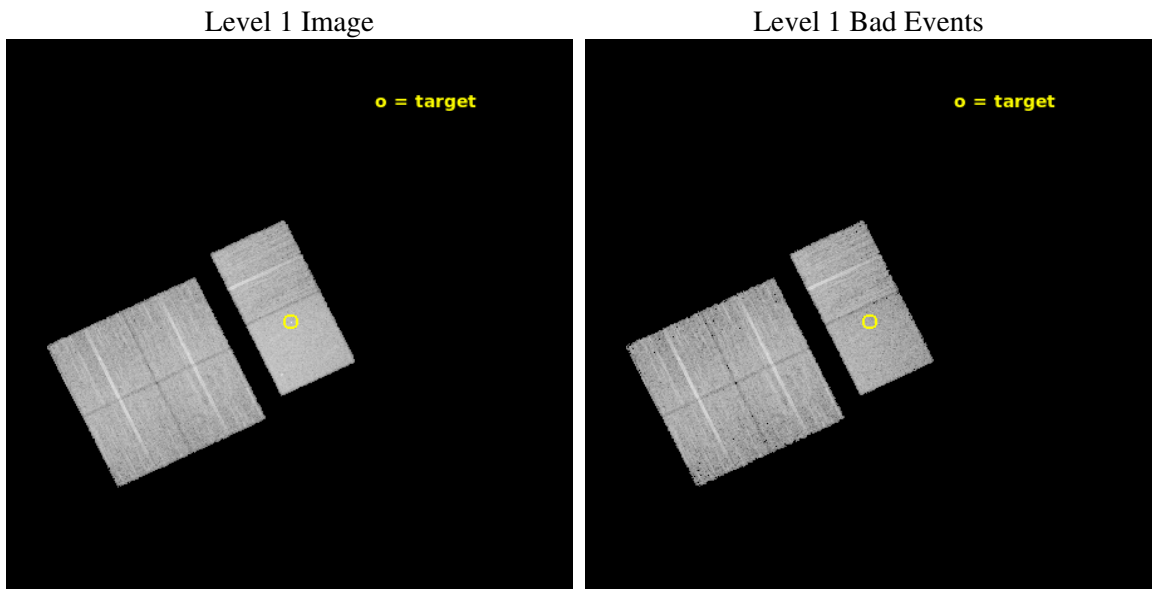
seq_num	200374	Sequence number
obs_id	6397	Observation id
title	On the origin of X-ray emission from Herbig Ae/Be stars	Proposal t
observer	Beate Stelzer	Principal investigator
object	MWC 147	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	98.271667	Observer's specified target RA [deg]
dec_targ	10.322194	Observer's specified target Dec [deg]
ra_nom	98.275515417027	Nominal RA [deg]
dec_nom	10.319275801433	Nominal Dec [deg]
roll_nom	64.21287044483	Nominal Roll [deg]
revision	3	Processing version of data
ontime	9462.3999647498	Sum of GTIs [s]
livetime	9342.5813588229	Livetime [s]
ontime0	9462.3999647498	Sum of GTIs [s]
ontime1	9462.3999647498	Sum of GTIs [s]
ontime2	9462.3999647498	Sum of GTIs [s]
ontime3	9459.1589744687	Sum of GTIs [s]
ontime6	9462.3999647498	Sum of GTIs [s]
ontime7	9462.3999647498	Sum of GTIs [s]
l2events	80387	Number of level 2 events



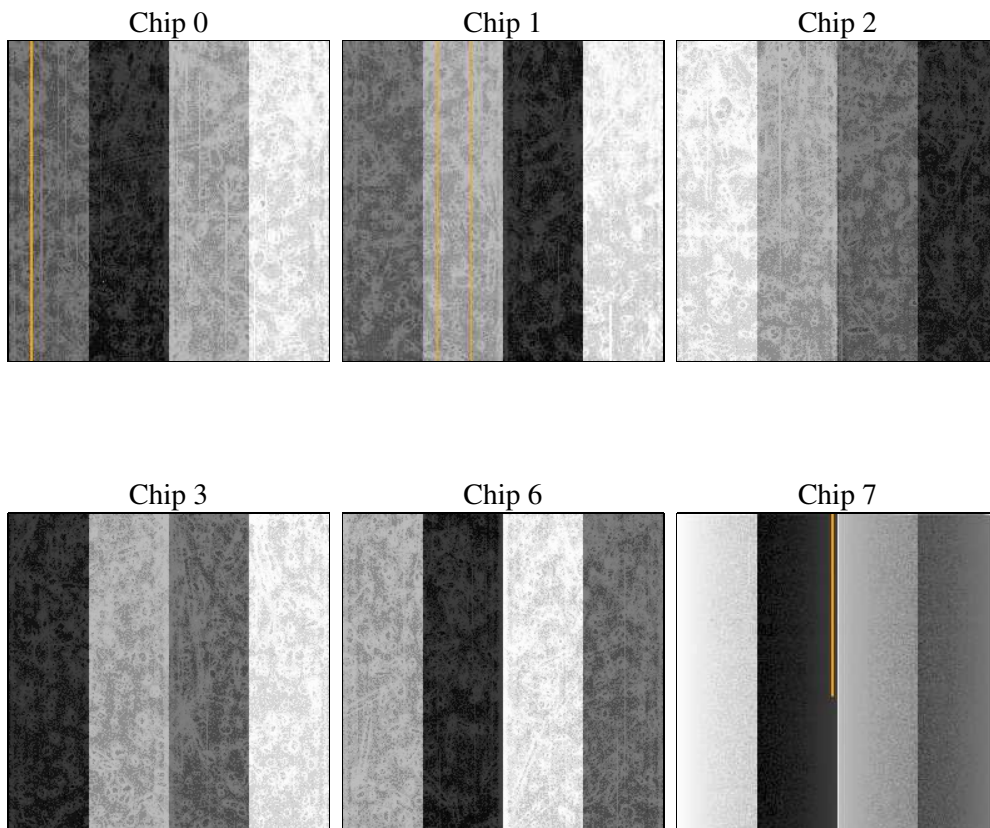
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	9300.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	9462.3999647498	Sum of GTIs [s]
caldsver	4.9.2	 	ontime0	9462.3999647498	Sum of GTIs [s]
date	2020-10-12T03:21:24	Date and time of file creation	ontime1	9462.3999647498	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	9462.3999647498	Sum of GTIs [s]
			ontime3	9459.1589744687	Sum of GTIs [s]
			ontime6	9462.3999647498	Sum of GTIs [s]
			ontime7	9462.3999647498	Sum of GTIs [s]
			l1events	486411	Number of level 1 events

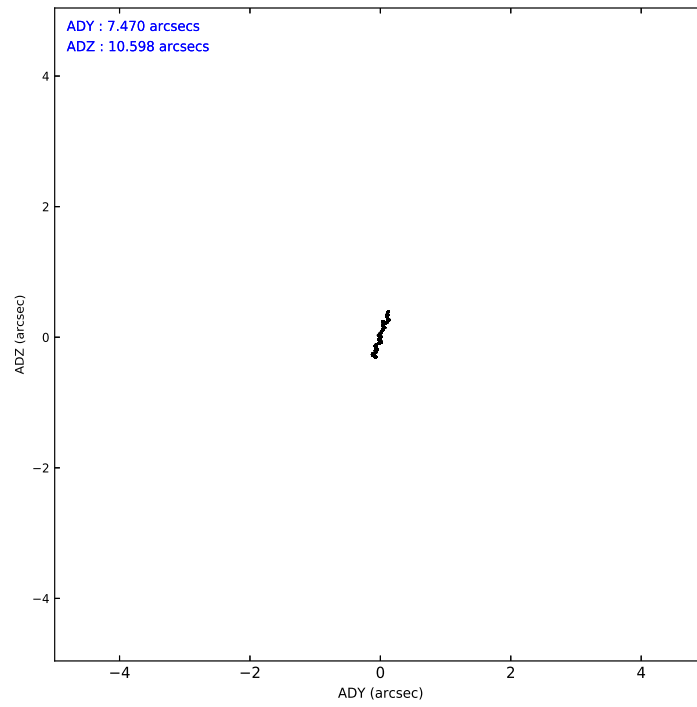
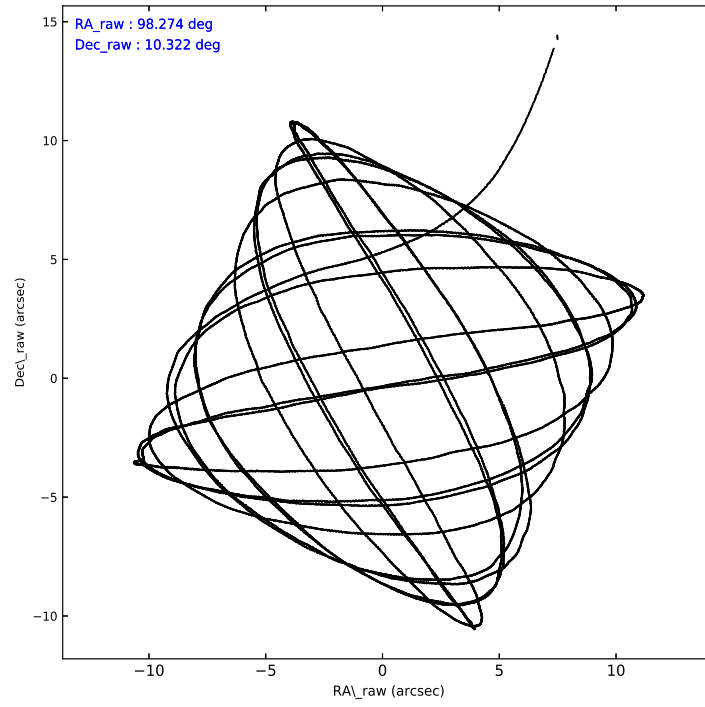
2.1.4 Events

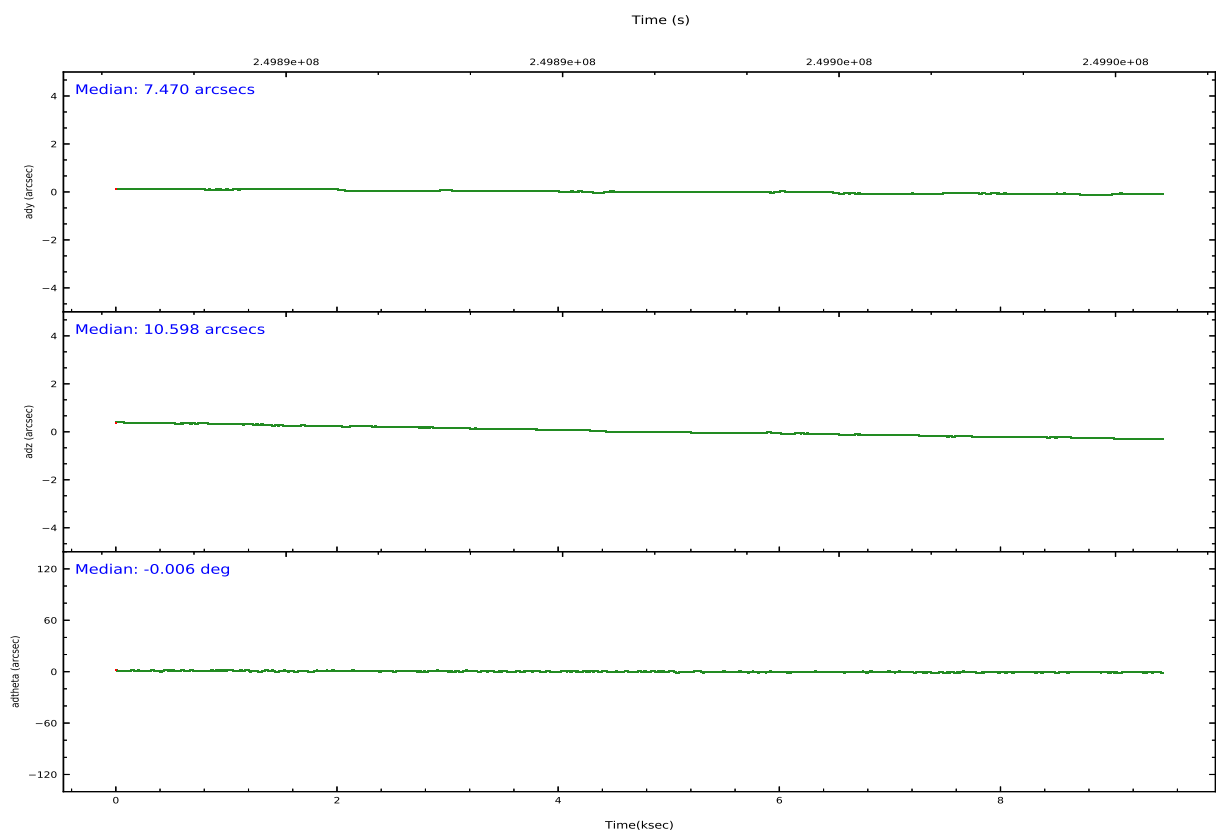
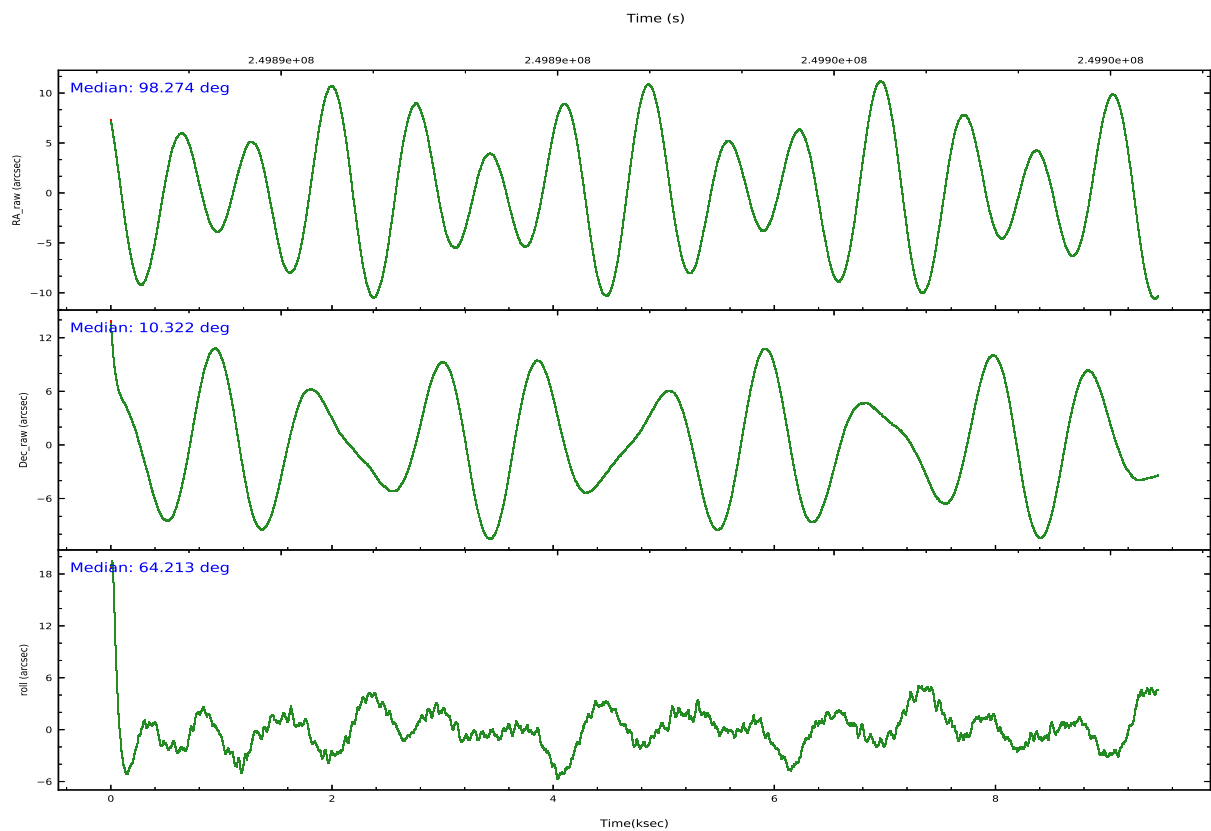
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	75489	71382	77840	73850	80440	107410	grade 0 events	3837	3774	3993	3839	3767	3919
rejected events	66416	61895	68964	65140	71326	64417		5%	5%	5%	5%	4%	3%
rejected %	87%	86%	88%	88%	88%	59%	grade 1 events	45	35	44	49	56	127
								0%	0%	0%	0%	0%	0%
							grade 2 events	2111	2170	1932	1759	1983	8721
								2%	3%	2%	2%	2%	8%
							grade 3 events	885	979	895	848	917	3968
								1%	1%	1%	1%	1%	3%
							grade 4 events	848	949	833	873	865	3813
								1%	1%	1%	1%	1%	3%
							grade 5 events	3382	3434	3078	3500	3840	10105
								4%	4%	3%	4%	4%	9%
							grade 6 events	1691	1903	1531	1669	1886	23980
								2%	2%	1%	2%	2%	22%
							grade 7 events	62690	58138	65534	61313	67126	52777
								83%	81%	84%	83%	83%	49%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-012367	ACIS-012367	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	98.276158	98.27551541702699	Subarray requested	NONE	NONE
[deg] Pointing Dec	10.295455	10.319275801433	Alternating exposures requested	N	N
[deg] Pointing Roll	64.056605	64.21287044483	[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)	249888631.184000	249887413.59688			
Observation start date	2005-12-02T05:29:27	2005-12-02T05:10:13			
[s] Observation end time (MET)	249897931.184000	249898529.72239			
Observation end date	2005-12-02T08:04:27	2005-12-02T08:15:29			
Read mode	TIMED	TIMED			

2.3 Aspect



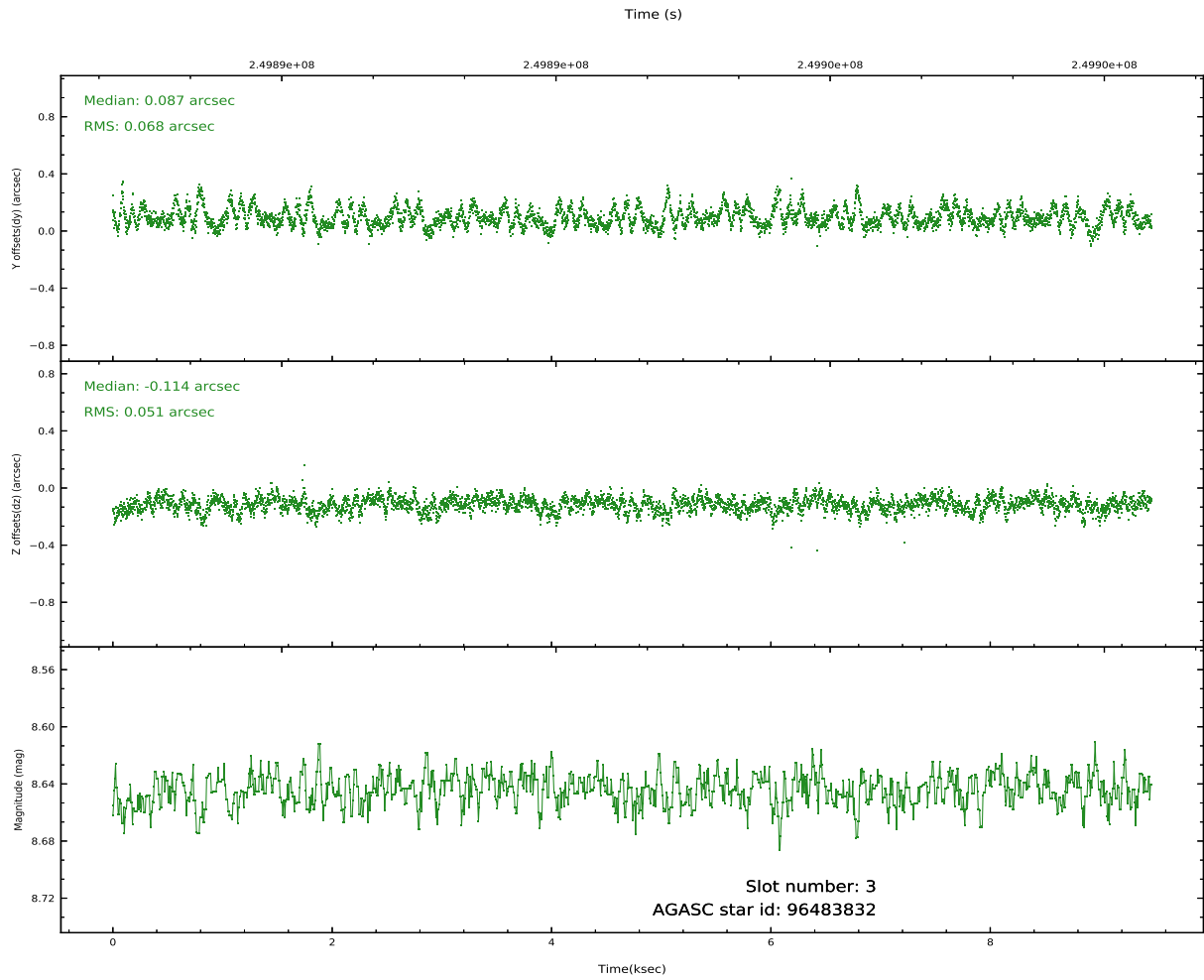
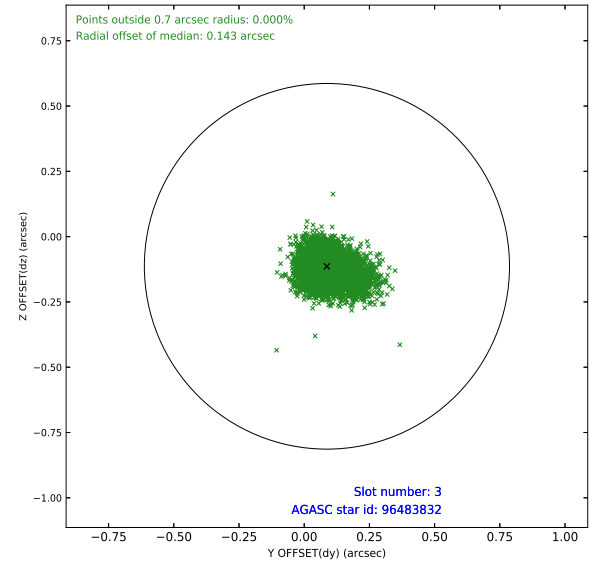
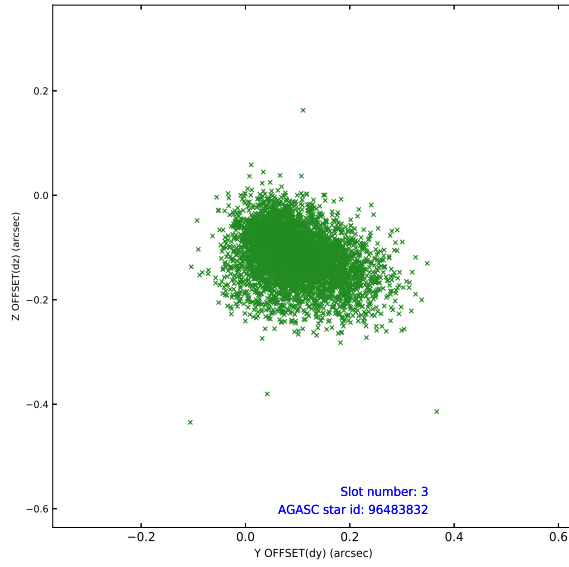


Slot Statistics

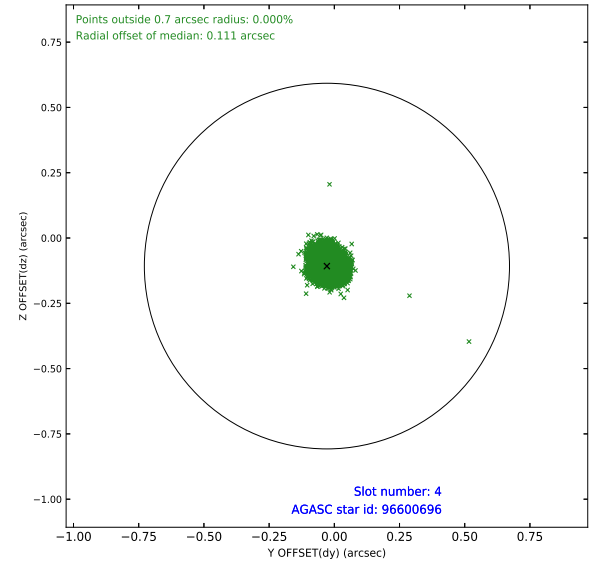
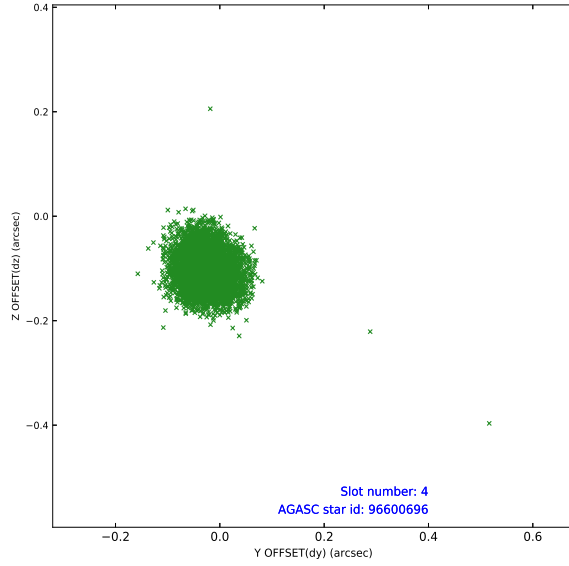
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-1	7.19	2311	1.000	0.057	-0.098	0.014	0.023	0.000000	0.000000	935.87	-1727
1	FID		ACIS-S-5	7.24	2310	1.000	-0.118	0.020	0.007	0.012	0.000000	0.000000	-1813.00	169
2	FID		ACIS-S-6	7.35	2309	1.000	0.040	0.090	0.012	0.018	0.000000	0.000000	400.77	814
3	GUIDE	used	96483832	8.64	4617	1.000	0.087	-0.114	0.087	0.151	97.592744	10.129290	-1595.04	1916
4	GUIDE	used	96600696	7.48	4620	1.000	-0.028	-0.107	0.053	0.084	98.163827	10.423290	239.81	559
5	GUIDE	used	96611152	9.00	4618	1.000	-0.004	0.158	0.082	0.136	98.677001	9.605534	-1609.58	-2365
6	GUIDE	used	96603600	7.09	4621	1.000	-0.090	-0.119	0.062	0.094	97.920572	11.102189	2062.40	2400
7	GUIDE	used	96607112	7.96	4619	1.000	0.029	0.184	0.077	0.119	99.040507	10.284881	1154.34	-2449

2.4 Star Slots

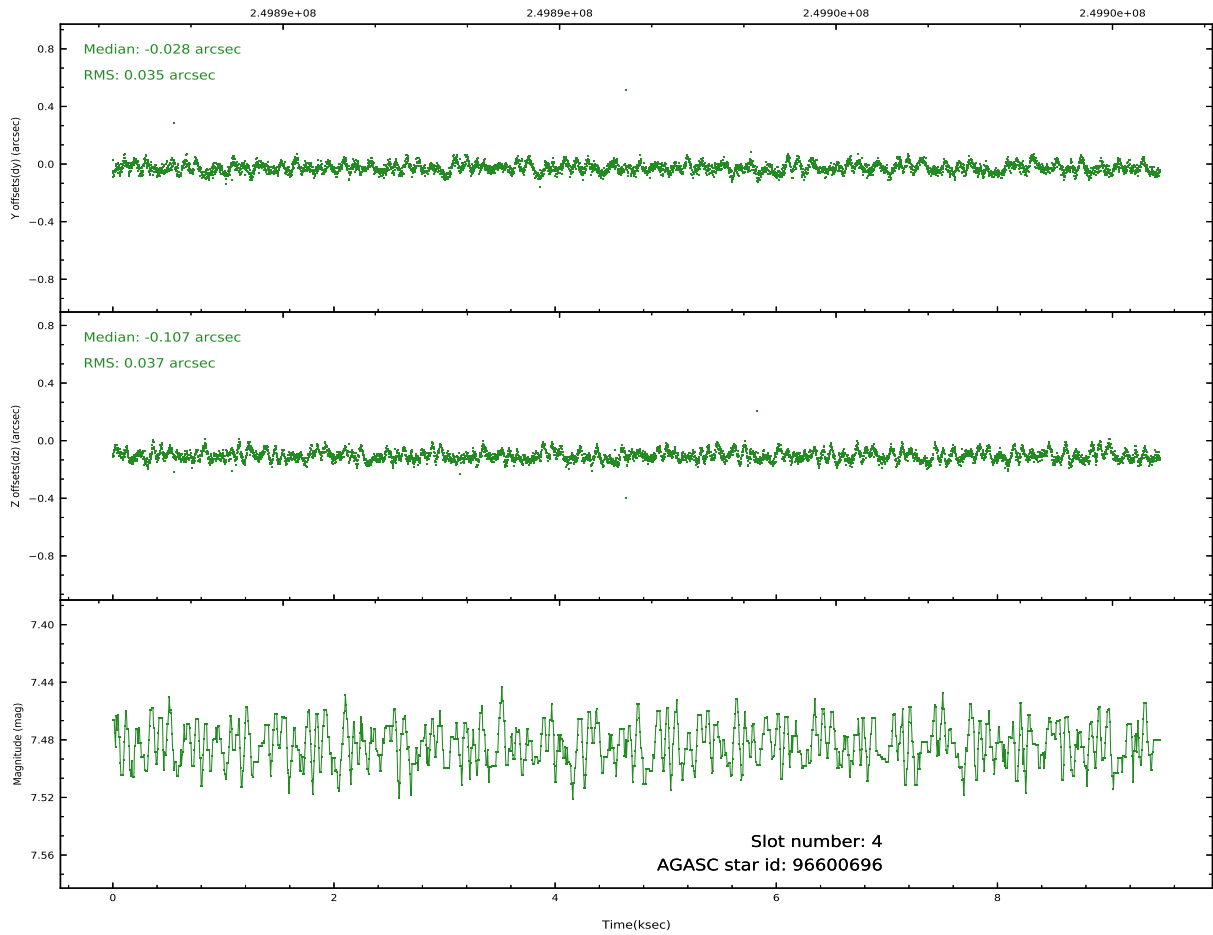
2.4.1 Slot 3



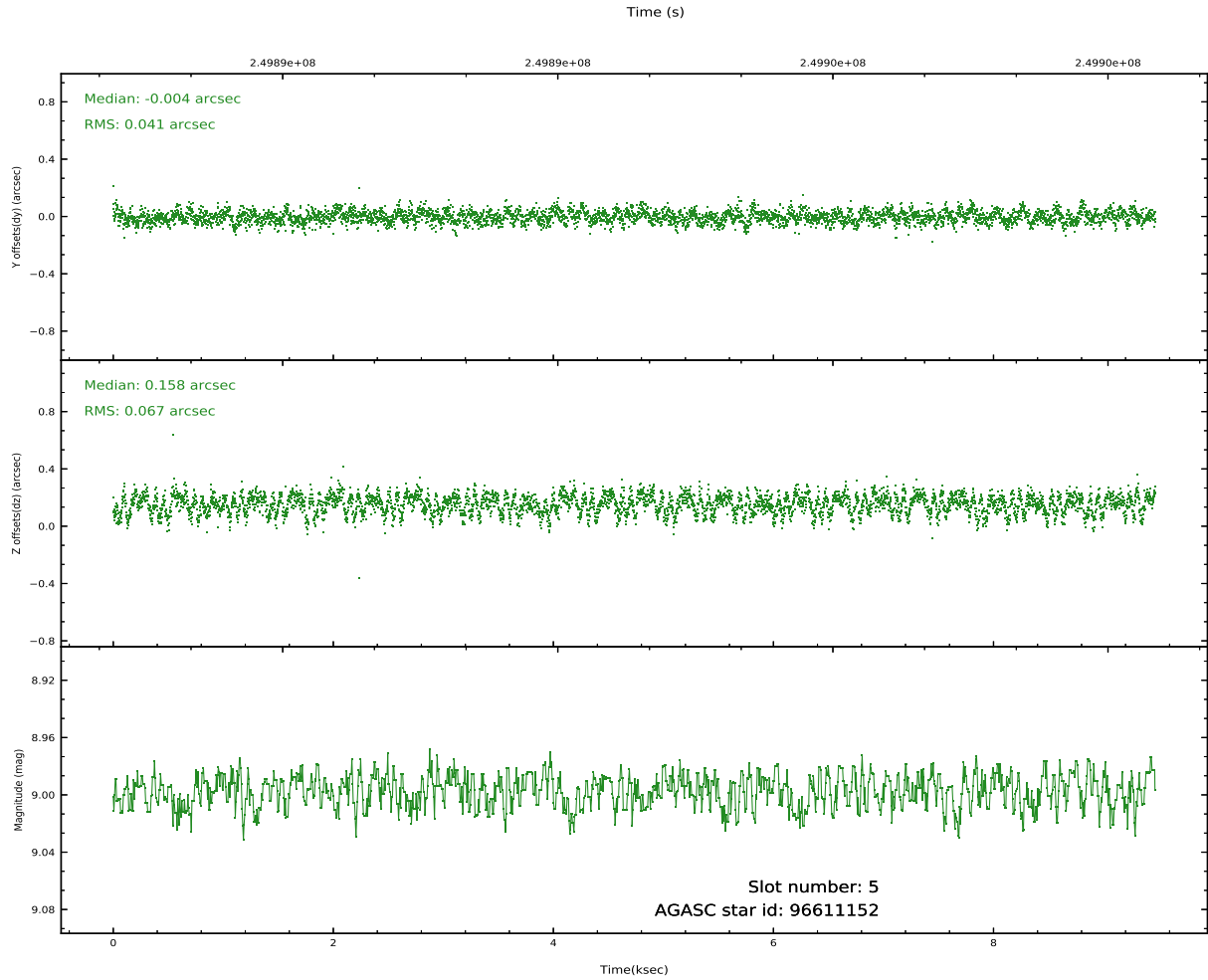
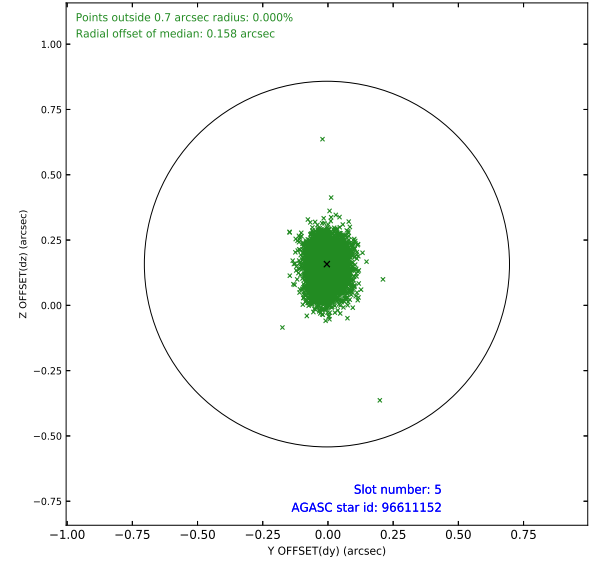
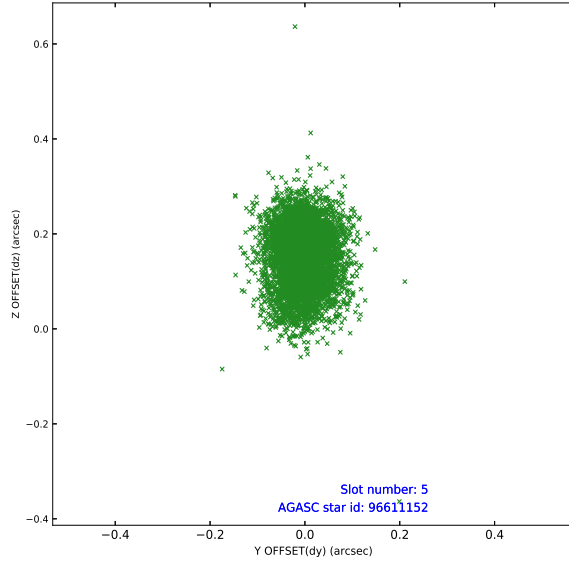
2.4.2 Slot 4



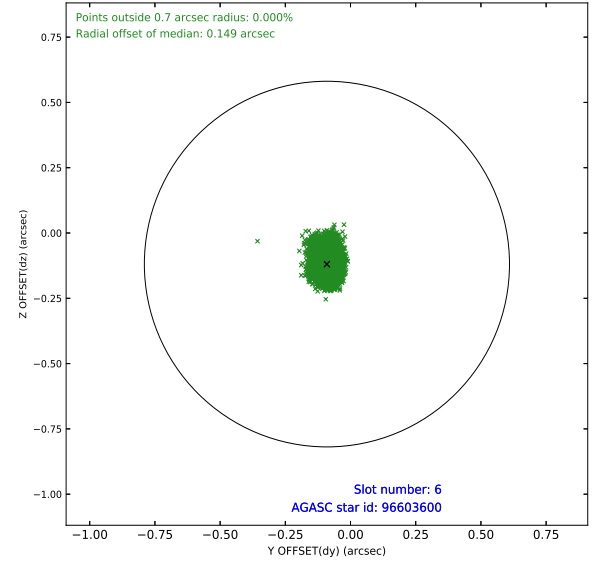
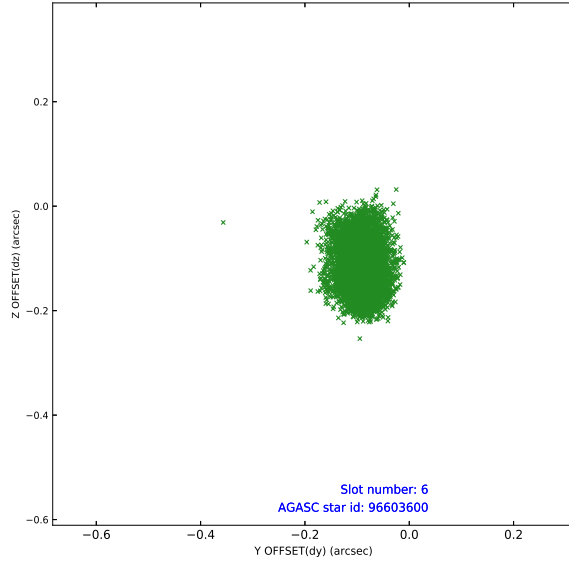
Time (s)



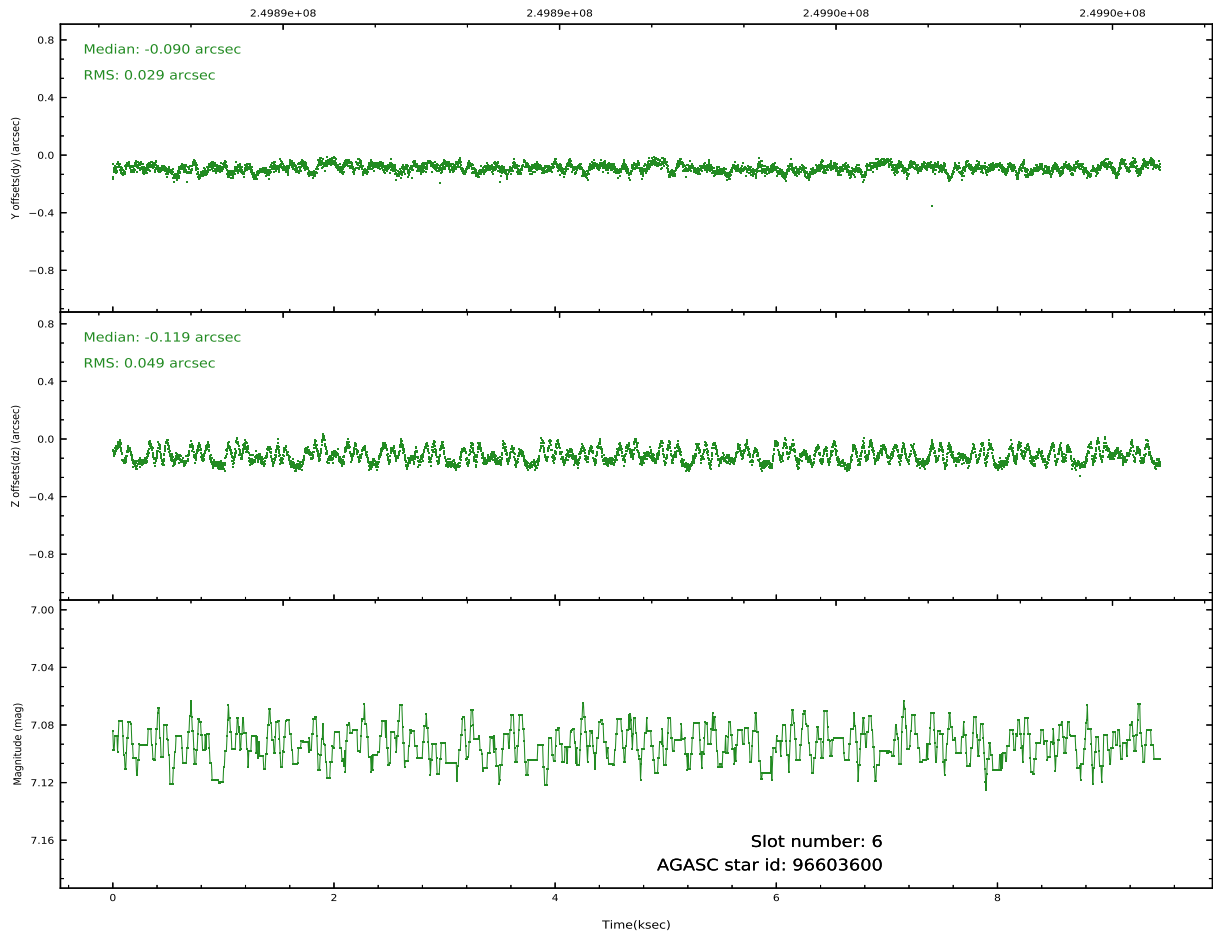
2.4.3 Slot 5



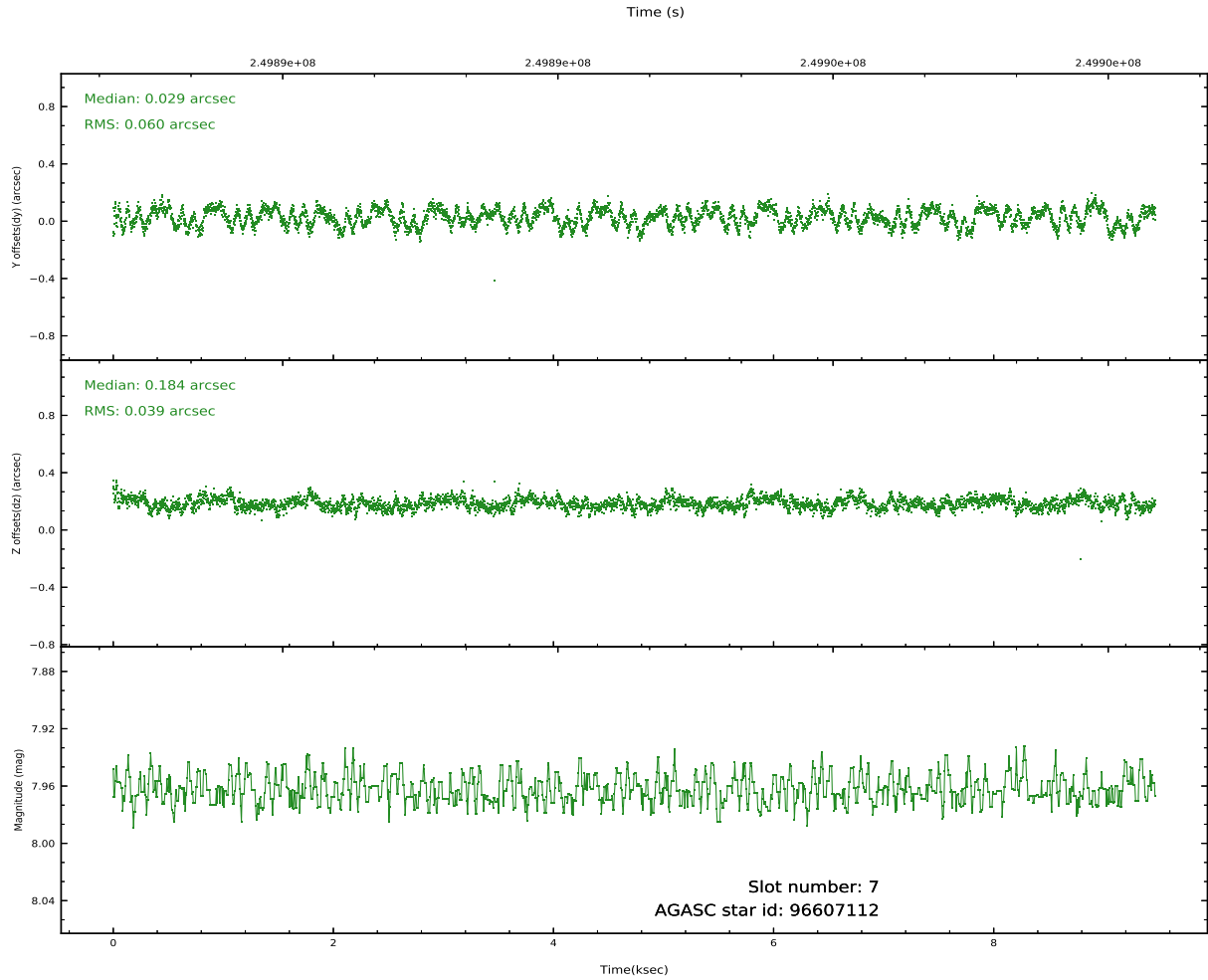
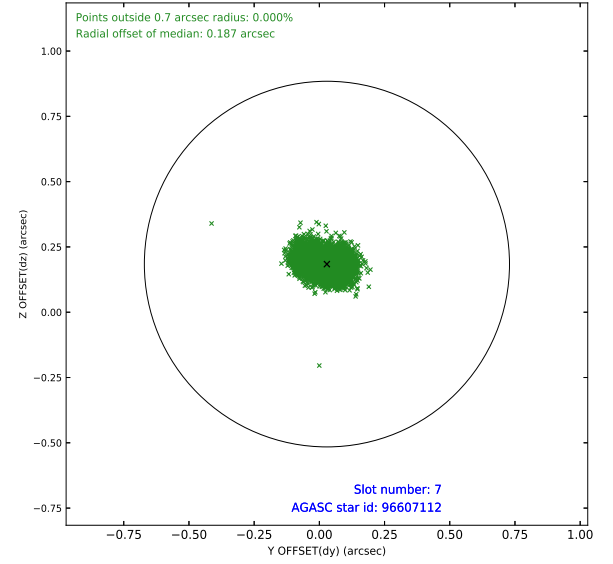
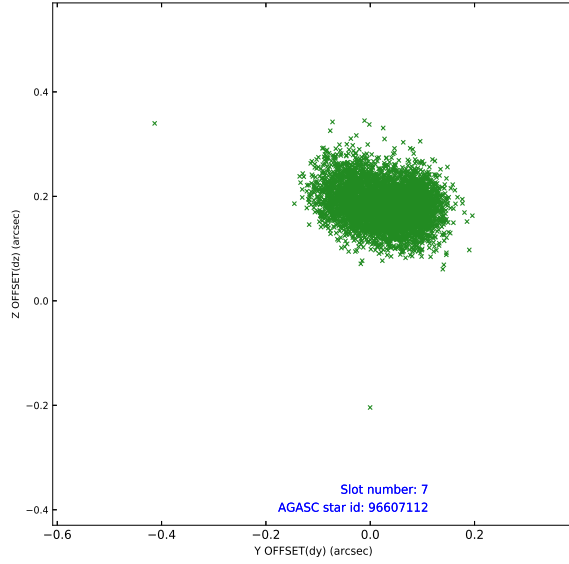
2.4.4 Slot 6



Time (s)

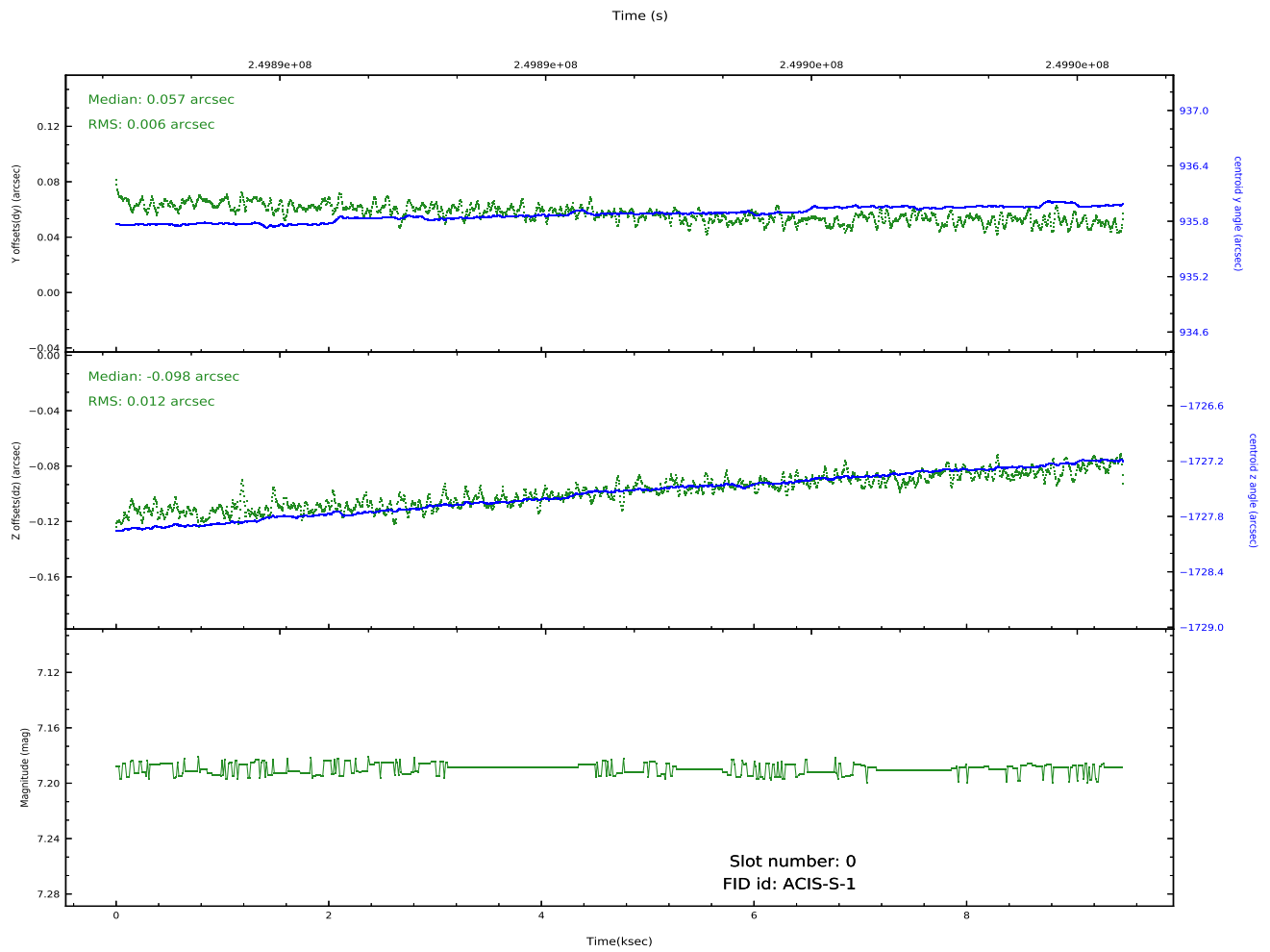
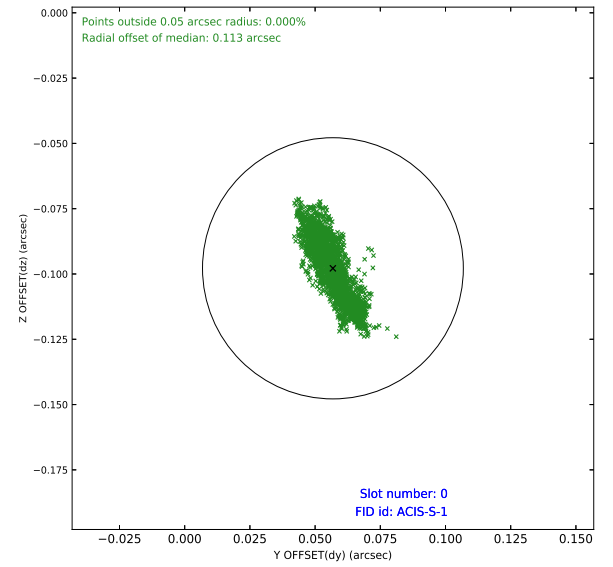
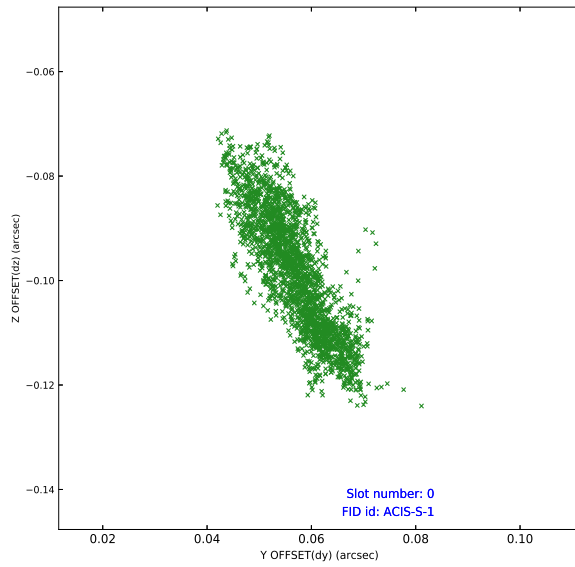


2.4.5 Slot 7

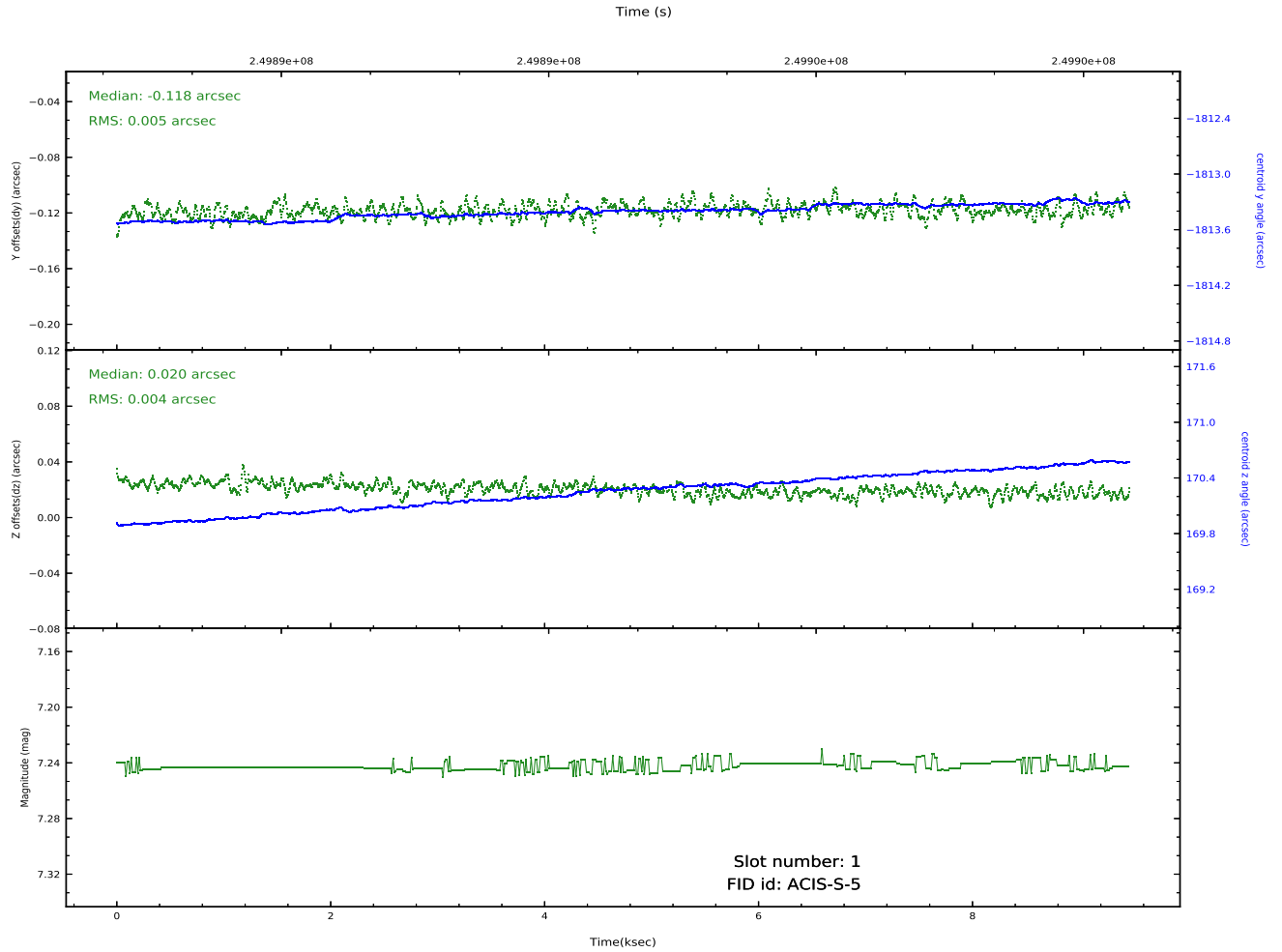
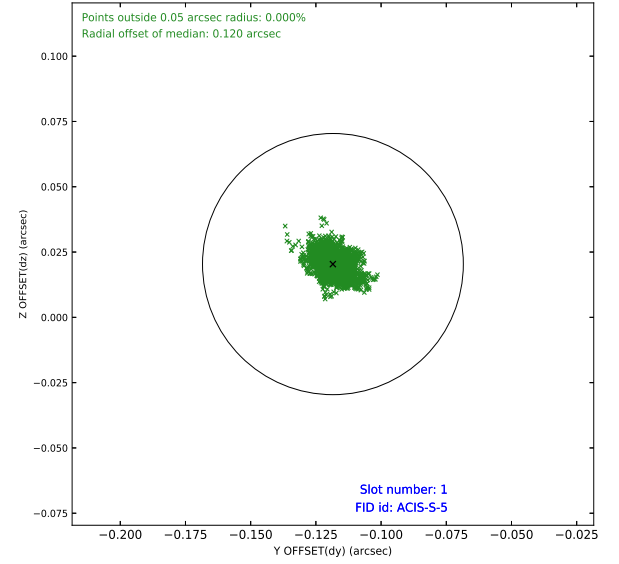
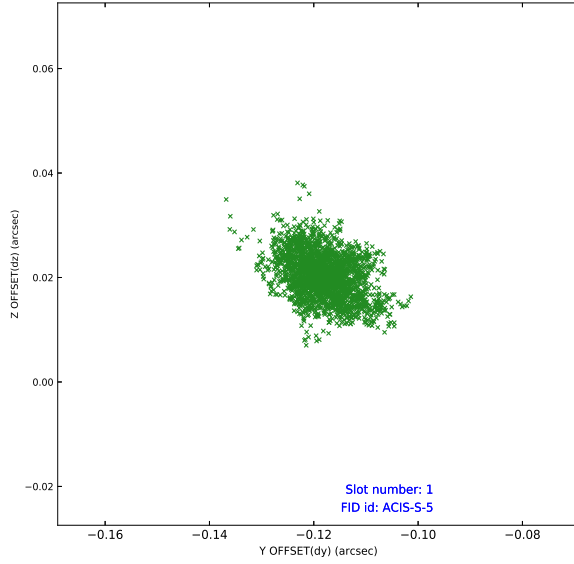


2.5 FID Slots

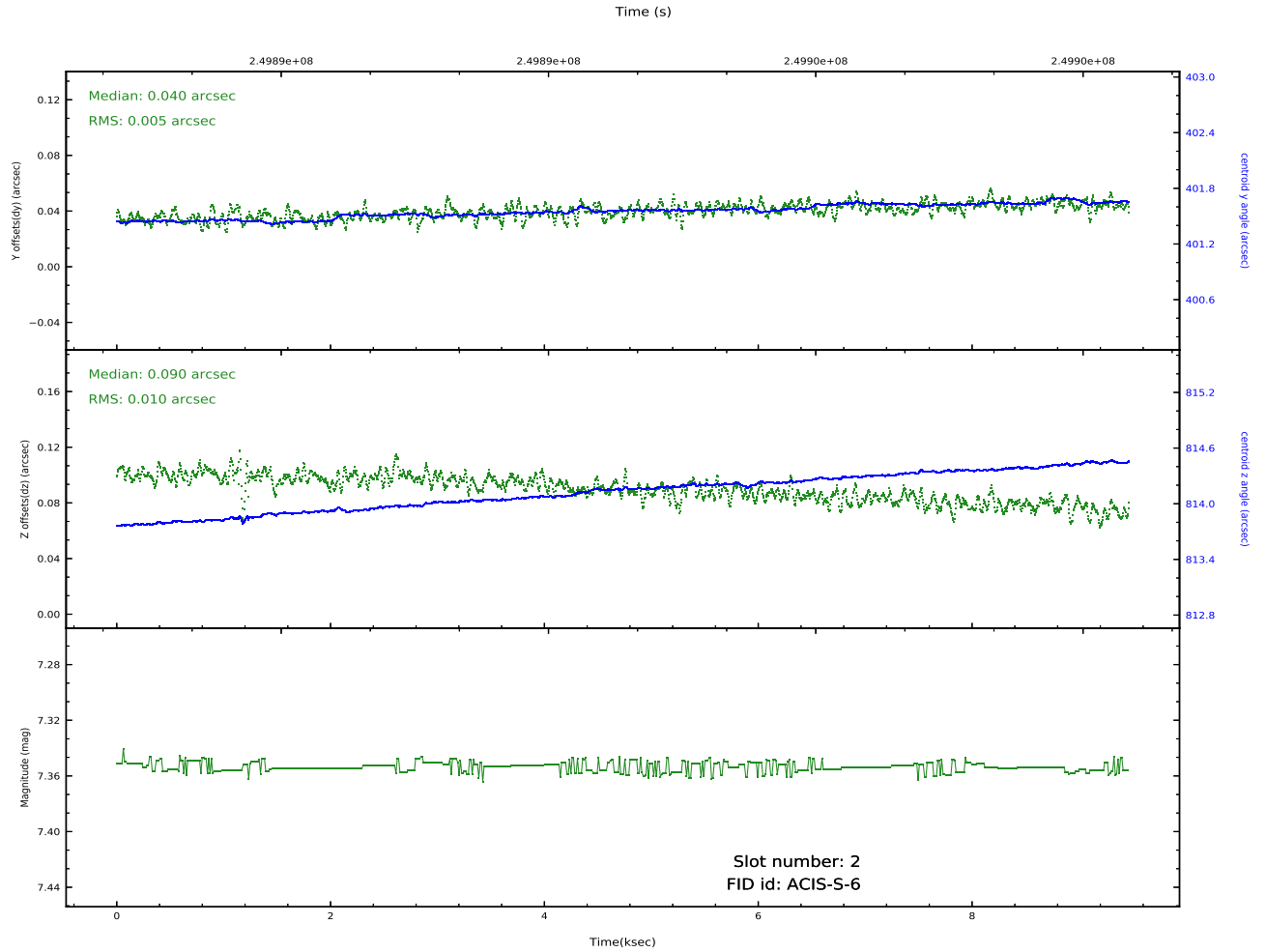
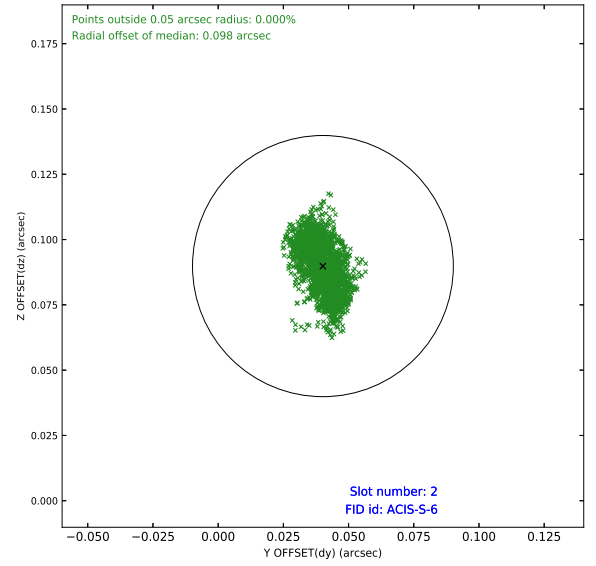
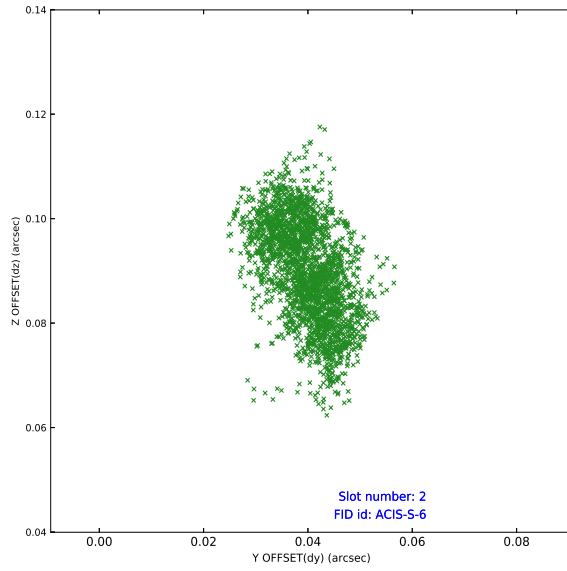
2.5.1 Slot 0



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)	2020.10.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	9.462399

A.2 Comments