

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20181 - L2 Version 2
Chandra X-Ray Center

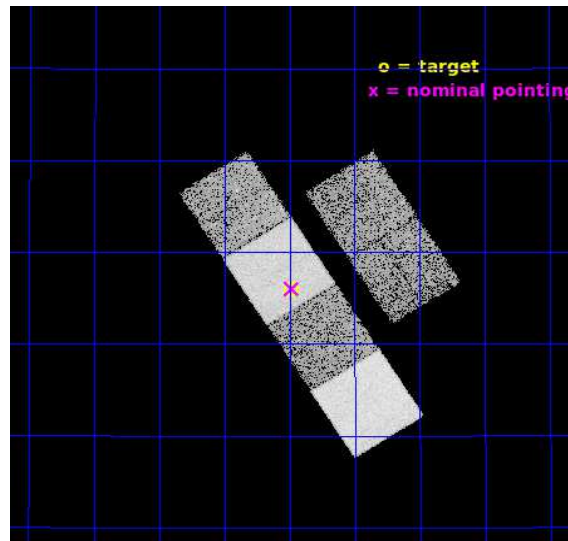
L2 Processing Date : Oct 25 2020

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1 Front

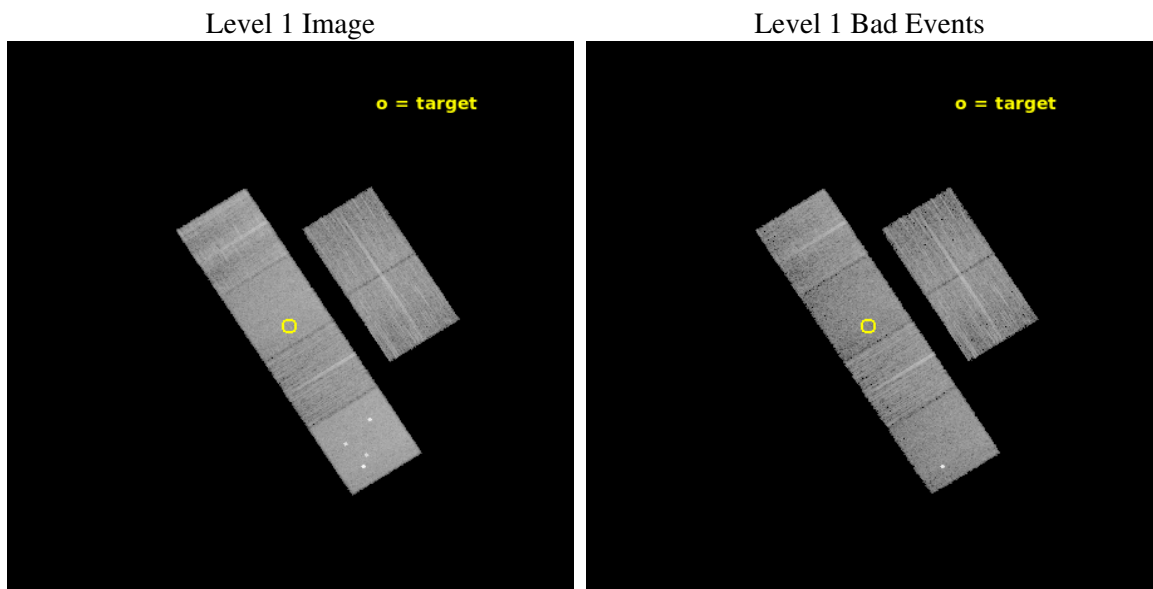
seq_num	401908	Sequence number
obs_id	20181	Observation id
title	The Late-time X-ray Behavior of Short Gamma-ray Bursts: Implications for Energetics and Rates	Proposal title
observer	Wen-fai Fong	Principal investigator
object	sGRB180418A	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	170.121667	Observer's specified target RA [deg]
dec_targ	24.933	Observer's specified target Dec [deg]
ra_nom	170.12043406792	Nominal RA [deg]
dec_nom	24.933753557651	Nominal Dec [deg]
roll_nom	237.39692548866	Nominal Roll [deg]
revision	2	Processing version of data
ontime	9955.200148344	Sum of GTIs [s]
livetime	9829.1414097638	Livetime [s]
ontime2	9951.9591779709	Sum of GTIs [s]
ontime3	9955.200148344	Sum of GTIs [s]
ontime5	9955.200148344	Sum of GTIs [s]
ontime6	9955.200148344	Sum of GTIs [s]
ontime7	9955.200148344	Sum of GTIs [s]
ontime8	9955.200148344	Sum of GTIs [s]
l2events	122652	Number of level 2 events



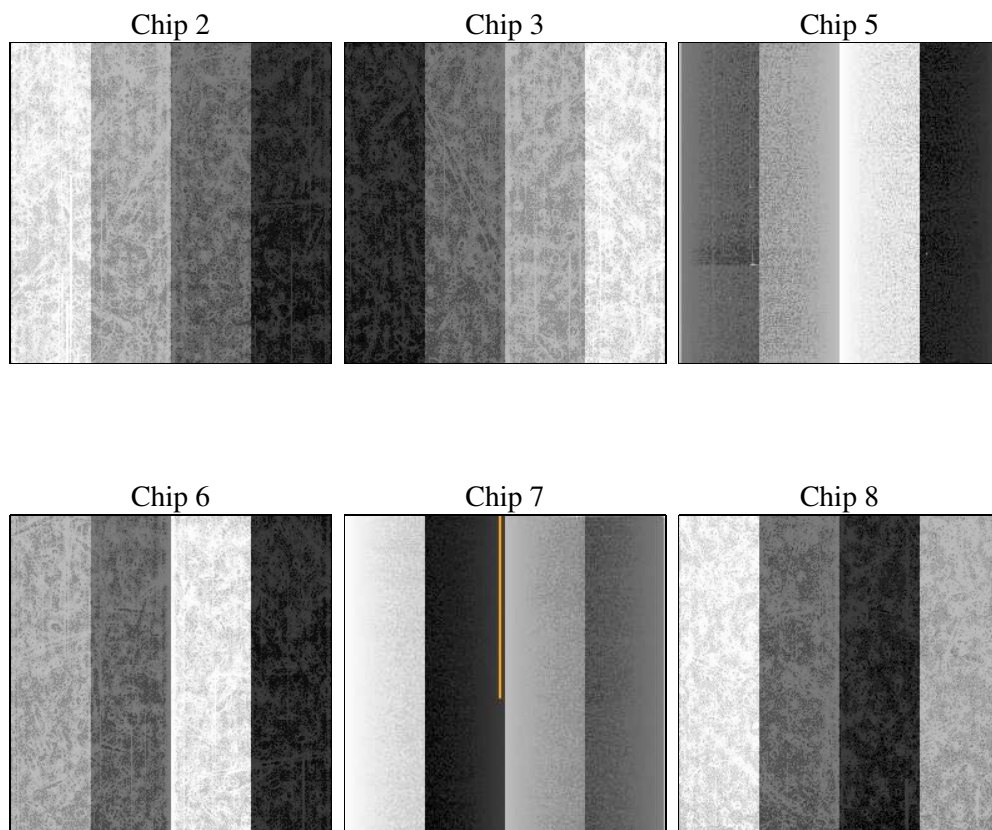
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	9955.200148344	Sum of GTIs [s]
caldsver	4.9.3	 	ontime2	9951.9591779709	Sum of GTIs [s]
date	2020-10-25T21:10:48	Date and time of file creation	ontime3	9955.200148344	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	9955.200148344	Sum of GTIs [s]
			ontime6	9955.200148344	Sum of GTIs [s]
			ontime7	9955.200148344	Sum of GTIs [s]
			ontime8	9955.200148344	Sum of GTIs [s]
			l1events	527092	Number of level 1 events

2.1.4 Events

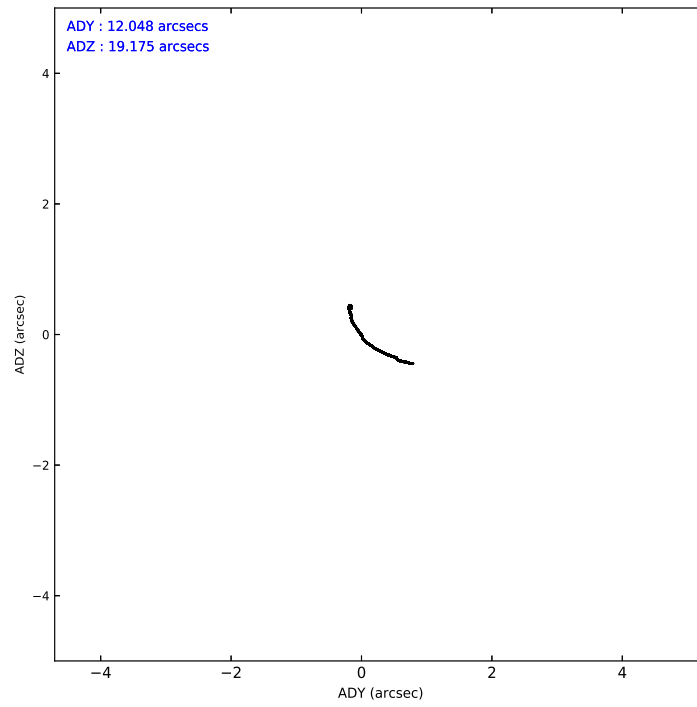
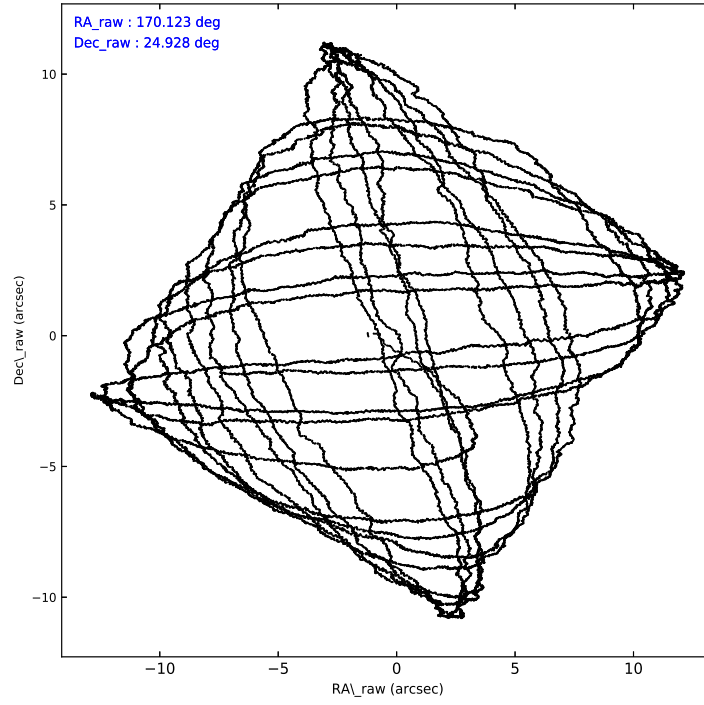
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	74679	67159	123332	74862	93407	93653	grade 0 events	2844	2846	8567	2784	3468	7925
rejected events	66499	59460	62472	66515	52377	66999		3%	4%	6%	3%	3%	8%
rejected %	89%	88%	50%	88%	56%	71%	grade 1 events	43	36	261	44	126	91
								0%	0%	0%	0%	0%	0%
							grade 2 events	2141	1663	17732	1933	8674	6486
								2%	2%	14%	2%	9%	6%
							grade 3 events	800	760	2264	849	3317	2764
								1%	1%	1%	1%	3%	2%
							grade 4 events	788	773	1762	822	3302	2560
								1%	1%	1%	1%	3%	2%
							grade 5 events	3148	3443	8596	3520	9415	5131
								4%	5%	6%	4%	10%	5%
							grade 6 events	1611	1662	30556	1962	22280	6945
								2%	2%	24%	2%	23%	7%
							grade 7 events	63304	55976	53594	62948	42825	61751
								84%	83%	43%	84%	45%	65%

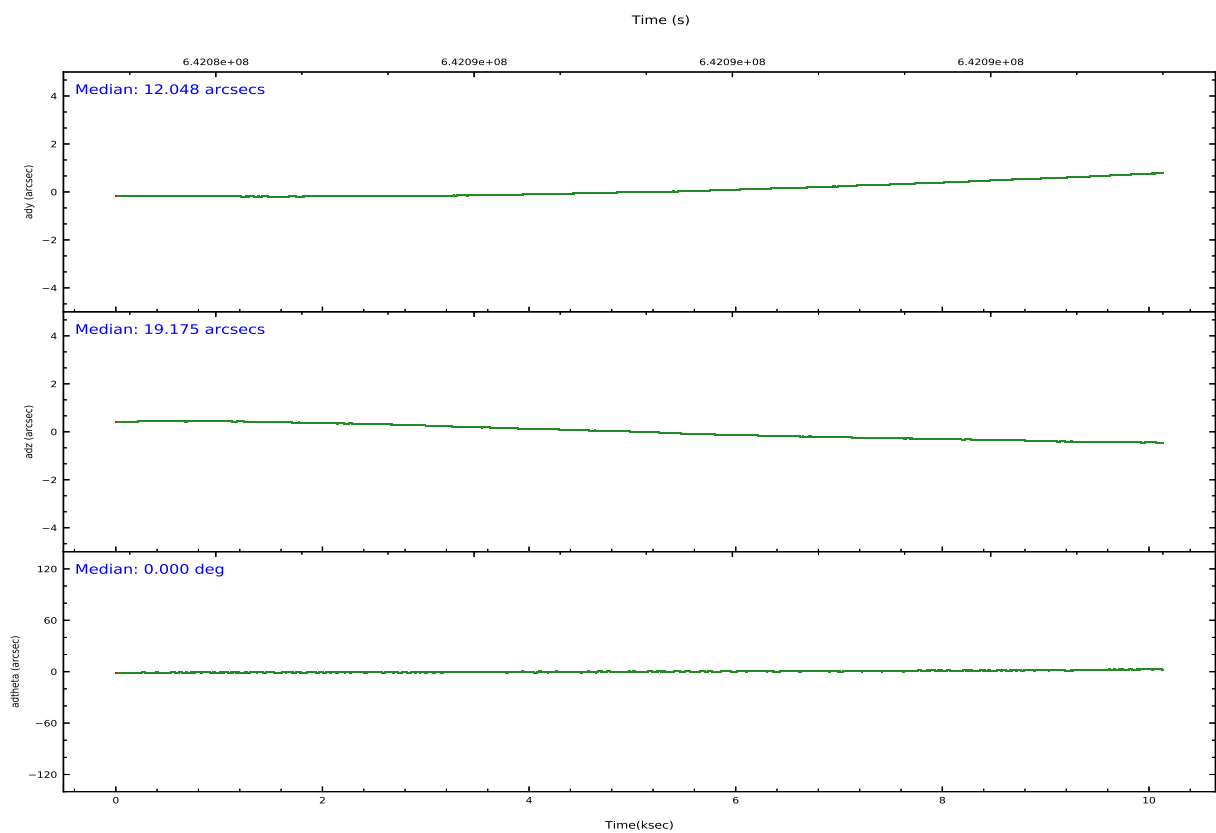
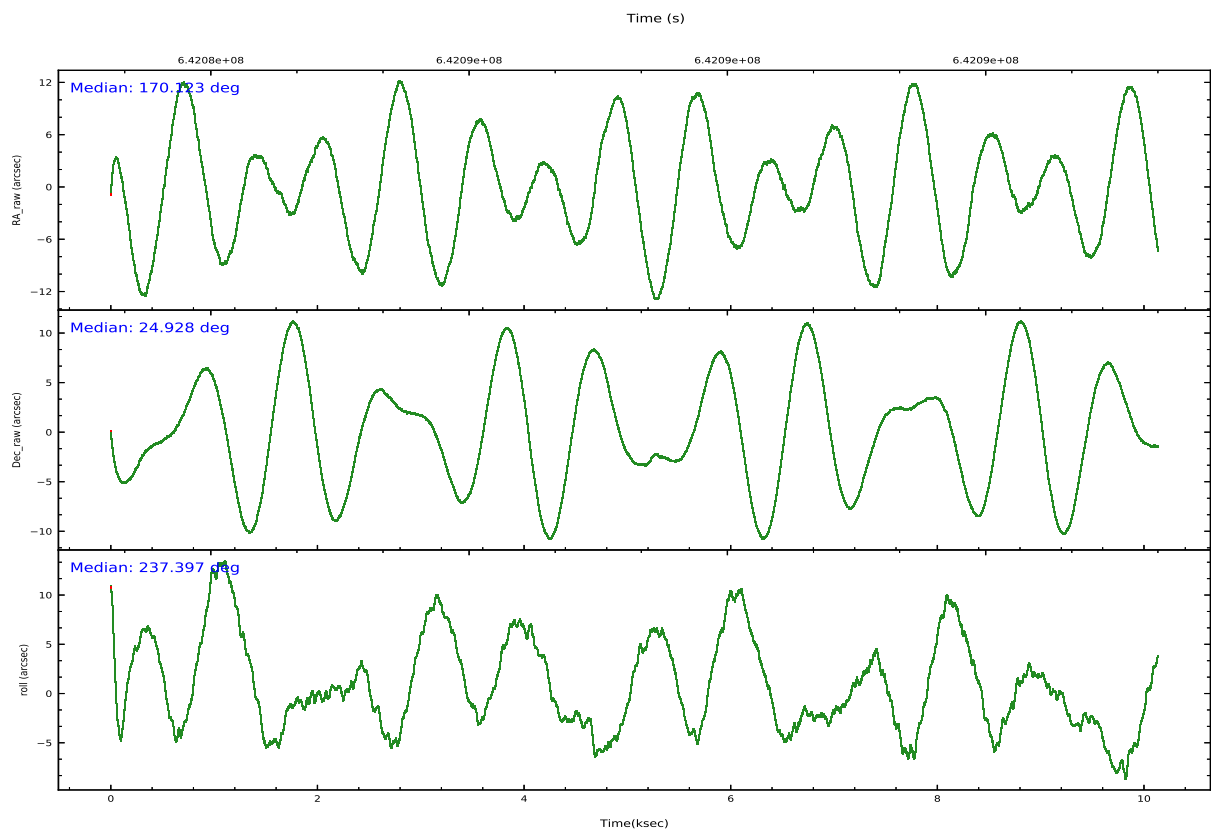
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-235678	ACIS-235678
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	170.124467	170.12043406792
[deg] Pointing Dec	24.955231	24.933753557651
[deg] Pointing Roll	237.251085	237.39692548866
[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)	642084169.184000	642082906.43389
Observation start date	2018-05-07T12:41:40	2018-05-07T12:21:46
[s] Observation end time (MET)	642094169.184000	642094965.0470999
Observation end date	2018-05-07T15:28:20	2018-05-07T15:42:45
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar version number	8	8
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
CCD I0 on	N	N
CCD I1 on	N	N
CCD I2 on	O1	Y
CCD I3 on	O2	Y
CCD S0 on	N	N
CCD S1 on	Y	Y
CCD S2 on	Y	Y
CCD S3 on	Y	Y
CCD S4 on	Y	Y
CCD S5 on	N	N
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.2

2.3 Aspect



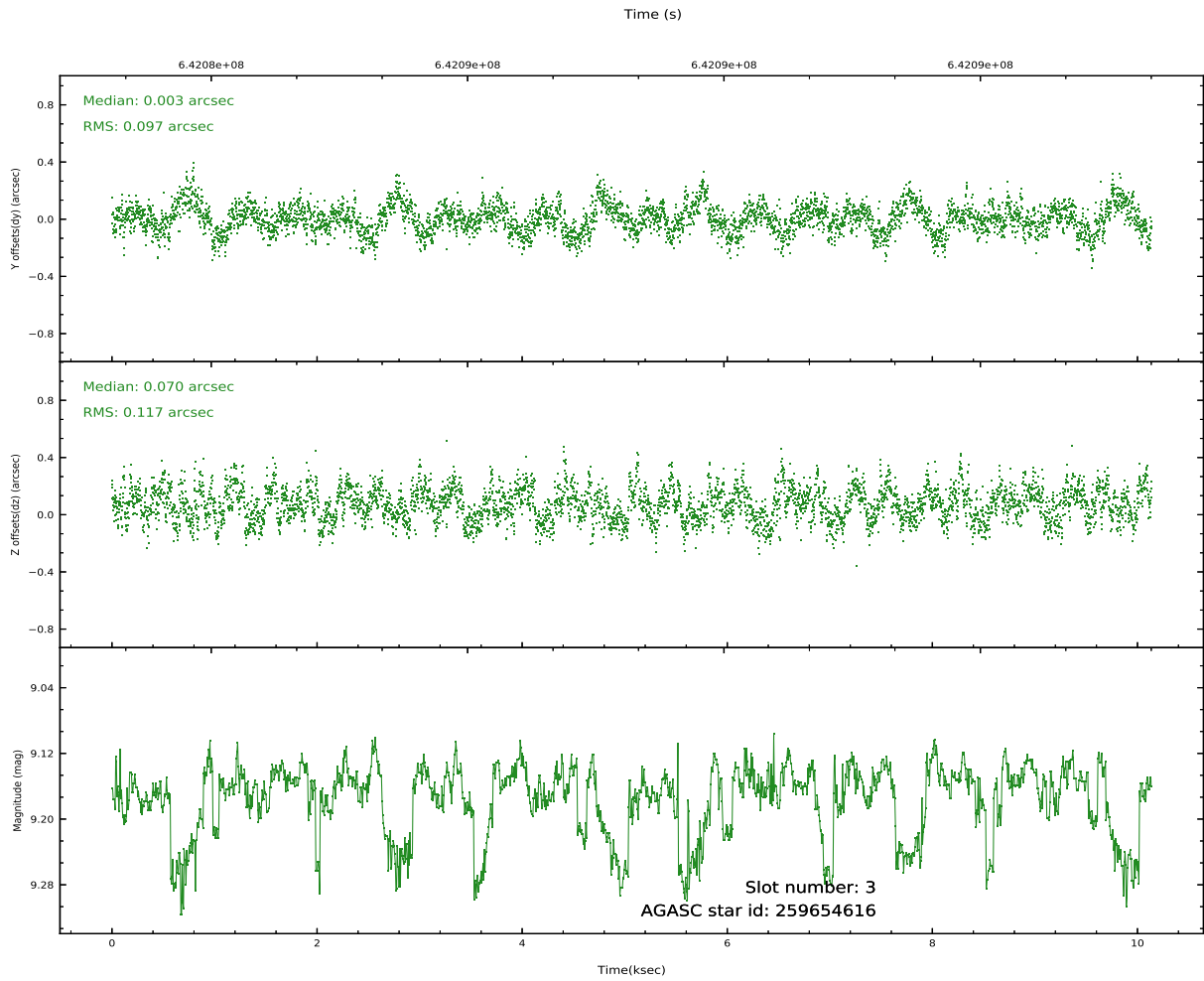
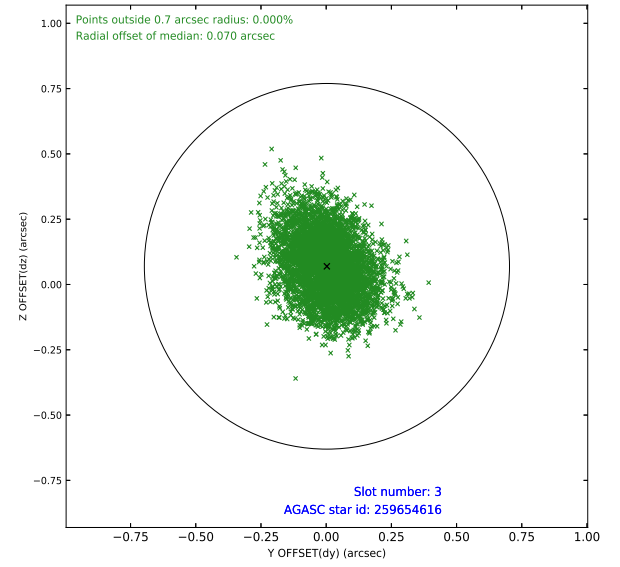
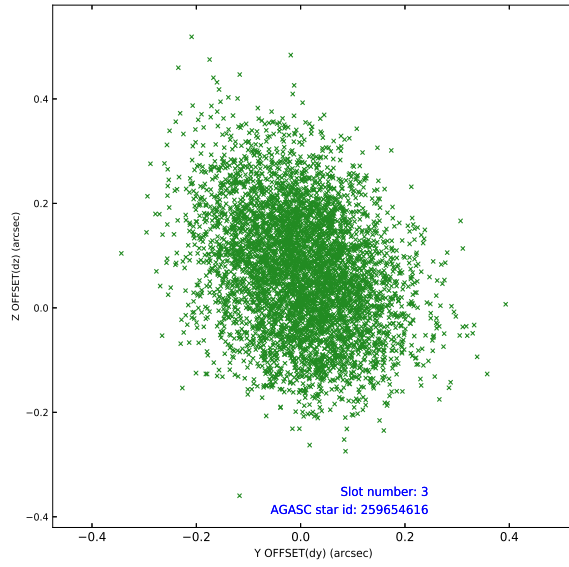


Slot Statistics

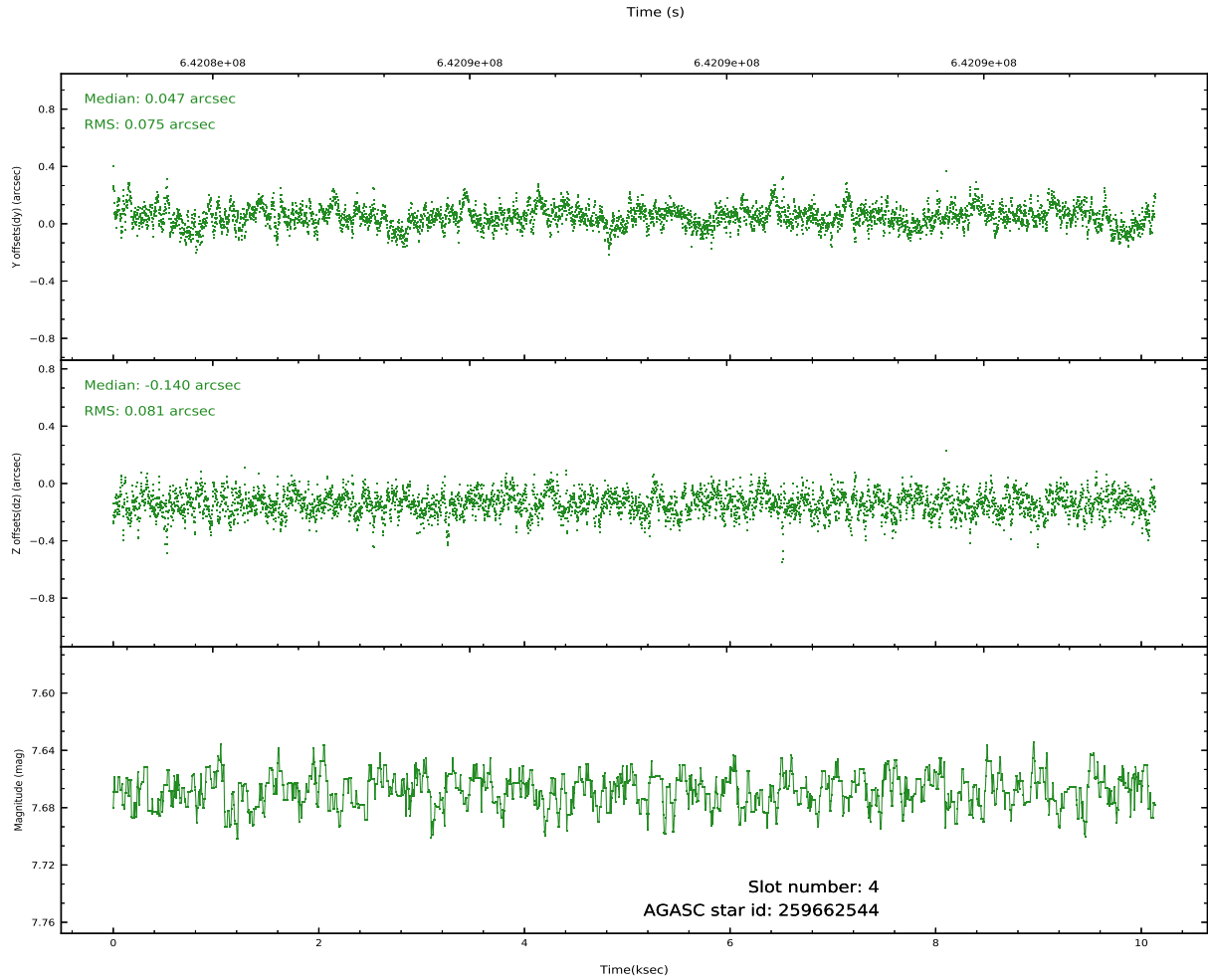
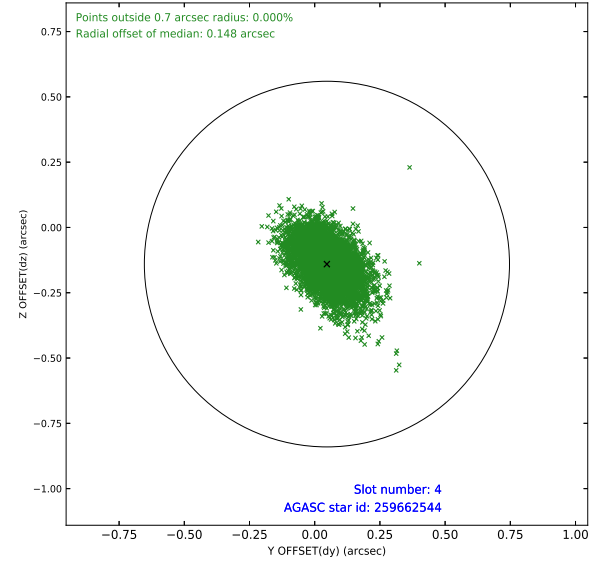
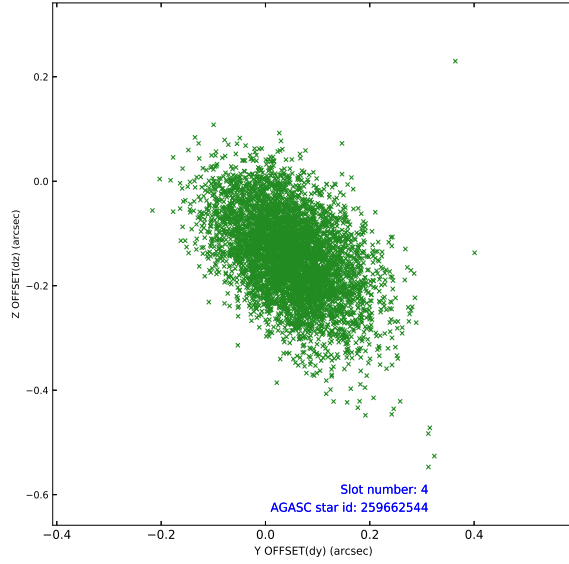
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	6.92	2473	1.000	0.090	-0.046	0.020	0.038	0.000000	0.000000	-765.08	-1740
1	FID		ACIS-S-4	7.04	2473	1.000	0.085	-0.031	0.008	0.014	0.000000	0.000000	2148.09	167
2	FID		ACIS-S-5	7.04	2472	1.000	-0.206	0.086	0.020	0.044	0.000000	0.000000	-1817.42	161
3	GUIDE	used	259654616	9.17	4945	1.000	0.003	0.070	0.163	0.261	170.040640	25.494737	-1485.59	-1279
4	GUIDE	used	259662544	7.67	4945	1.000	0.047	-0.140	0.115	0.196	169.440651	25.051356	911.03	-2065
5	GUIDE	used	259665288	8.61	4942	1.000	-0.007	0.093	0.136	0.235	170.672049	24.733578	-299.81	1934
6	GUIDE	used	259667432	9.09	4937	1.000	0.068	-0.169	0.153	0.242	169.597557	25.235111	78.90	-1990
7	GUIDE	used	259663456	8.65	4939	1.000	-0.107	0.141	0.156	0.255	170.962709	24.951050	-1474.18	2304

2.4 Star Slots

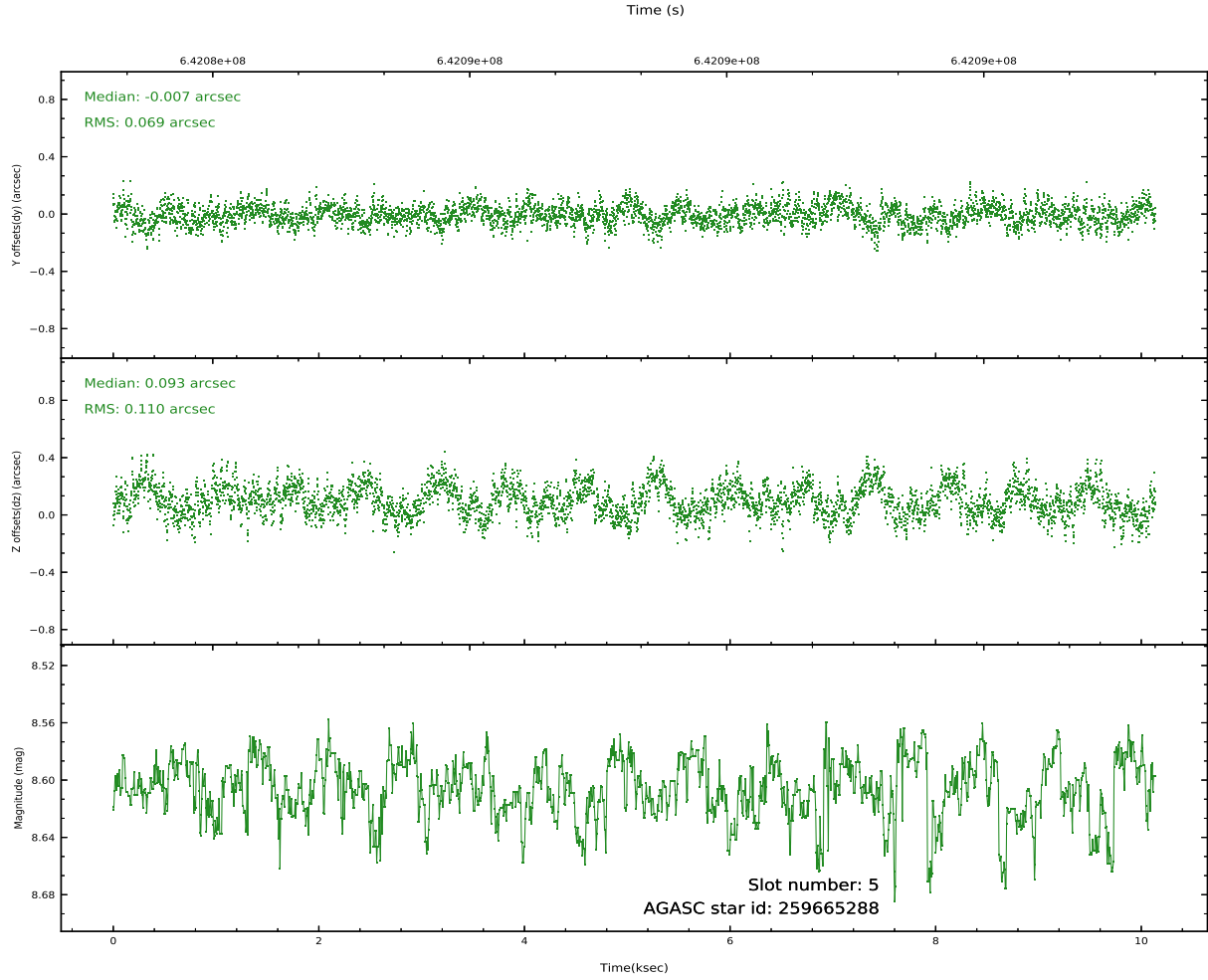
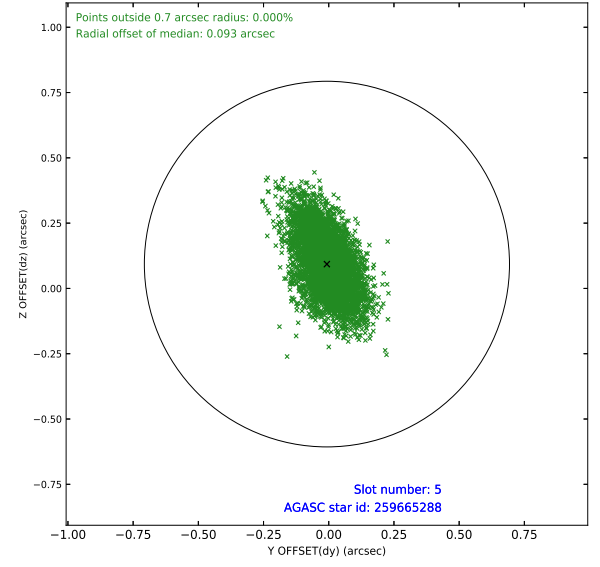
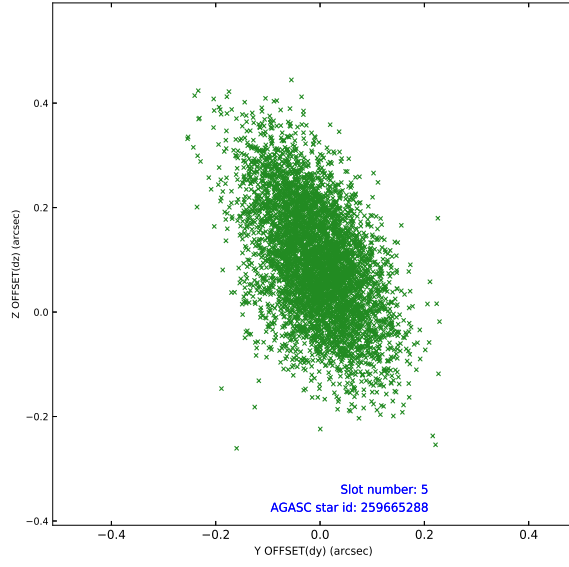
2.4.1 Slot 3



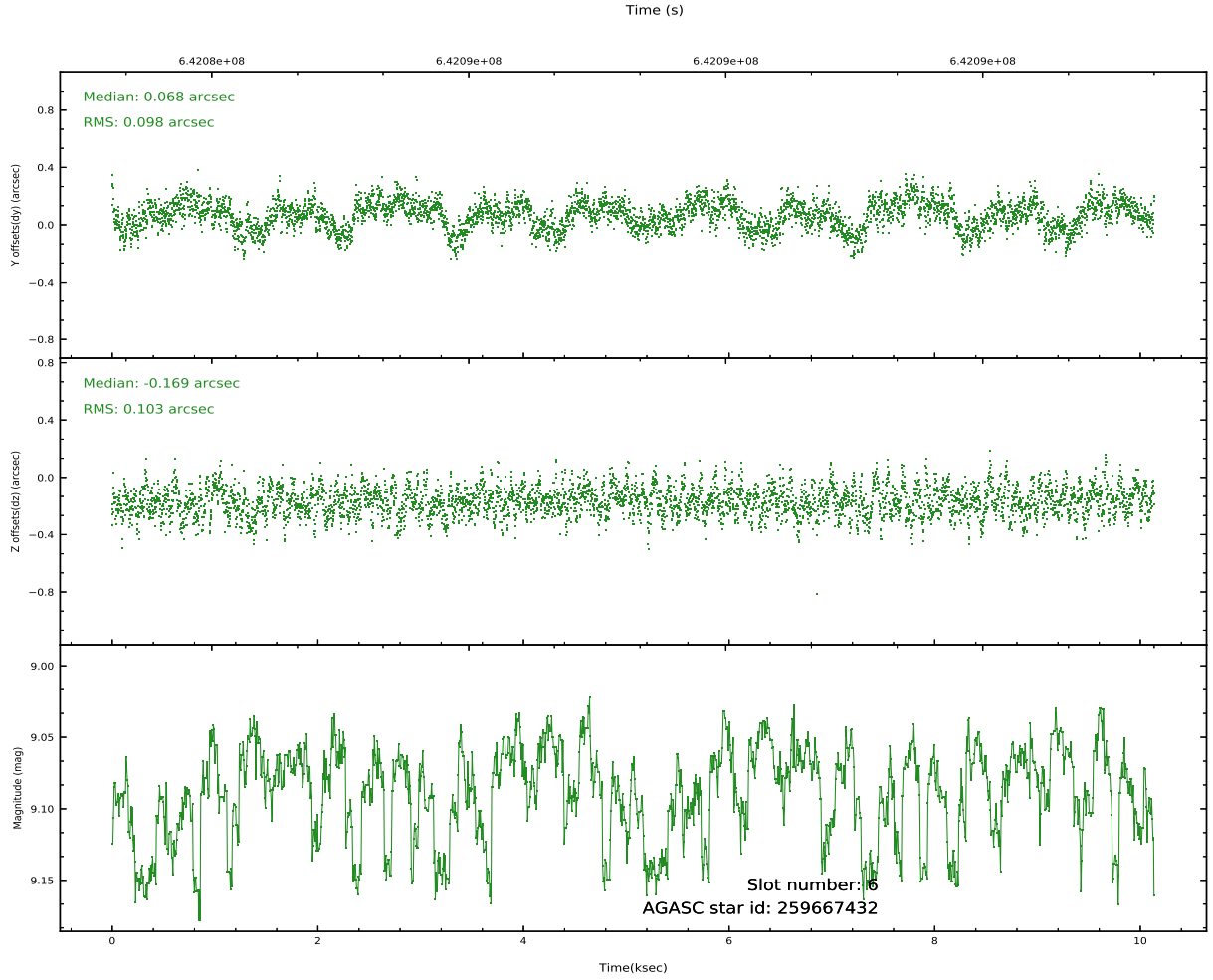
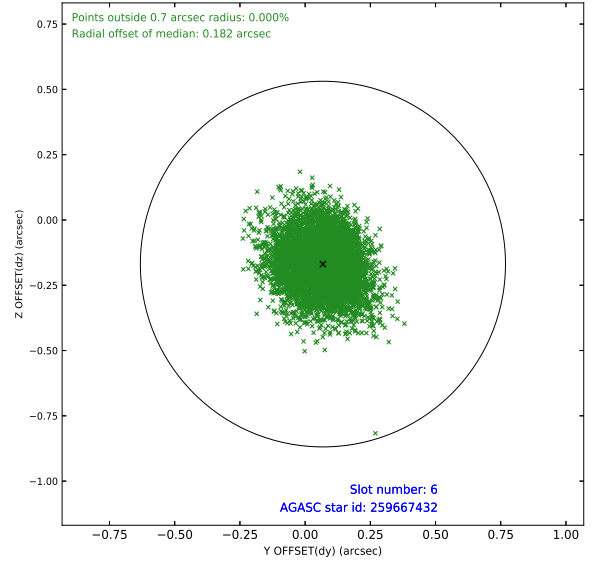
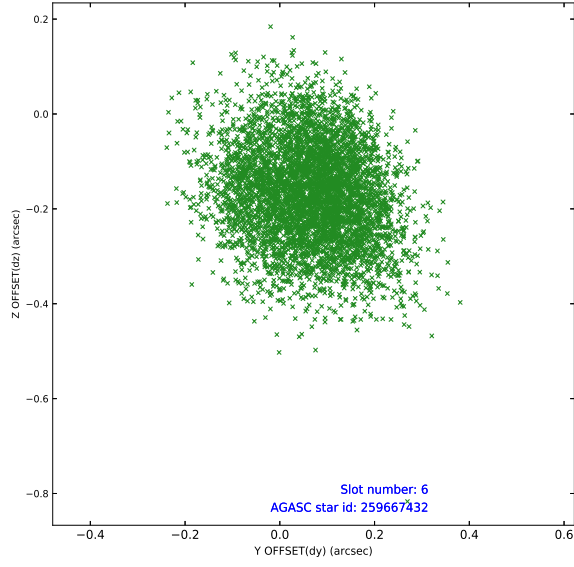
2.4.2 Slot 4



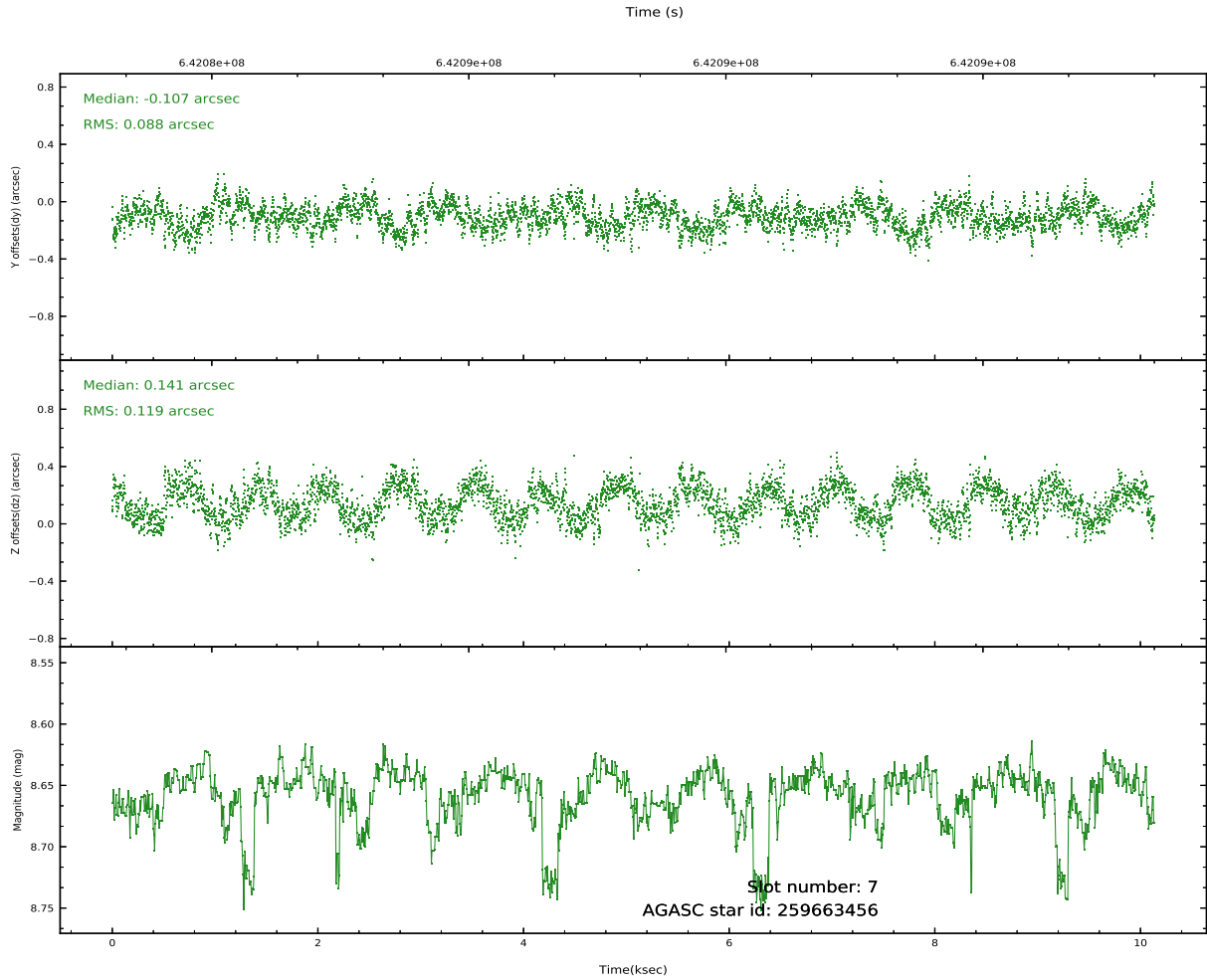
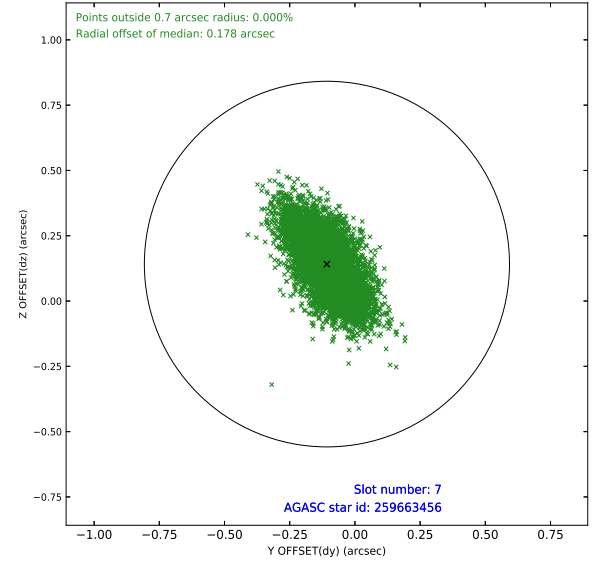
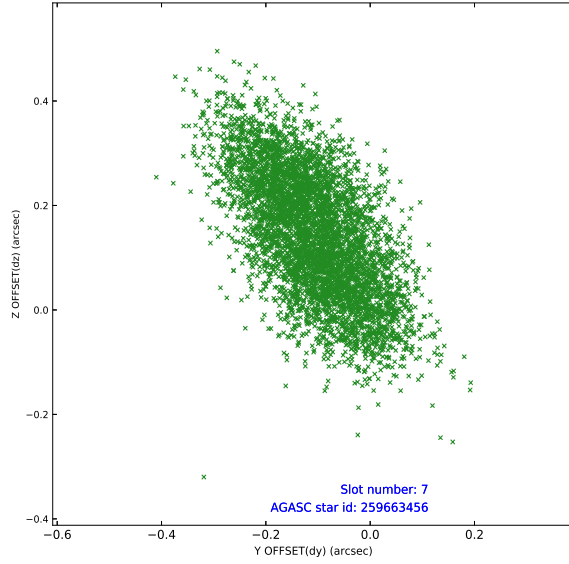
2.4.3 Slot 5



2.4.4 Slot 6

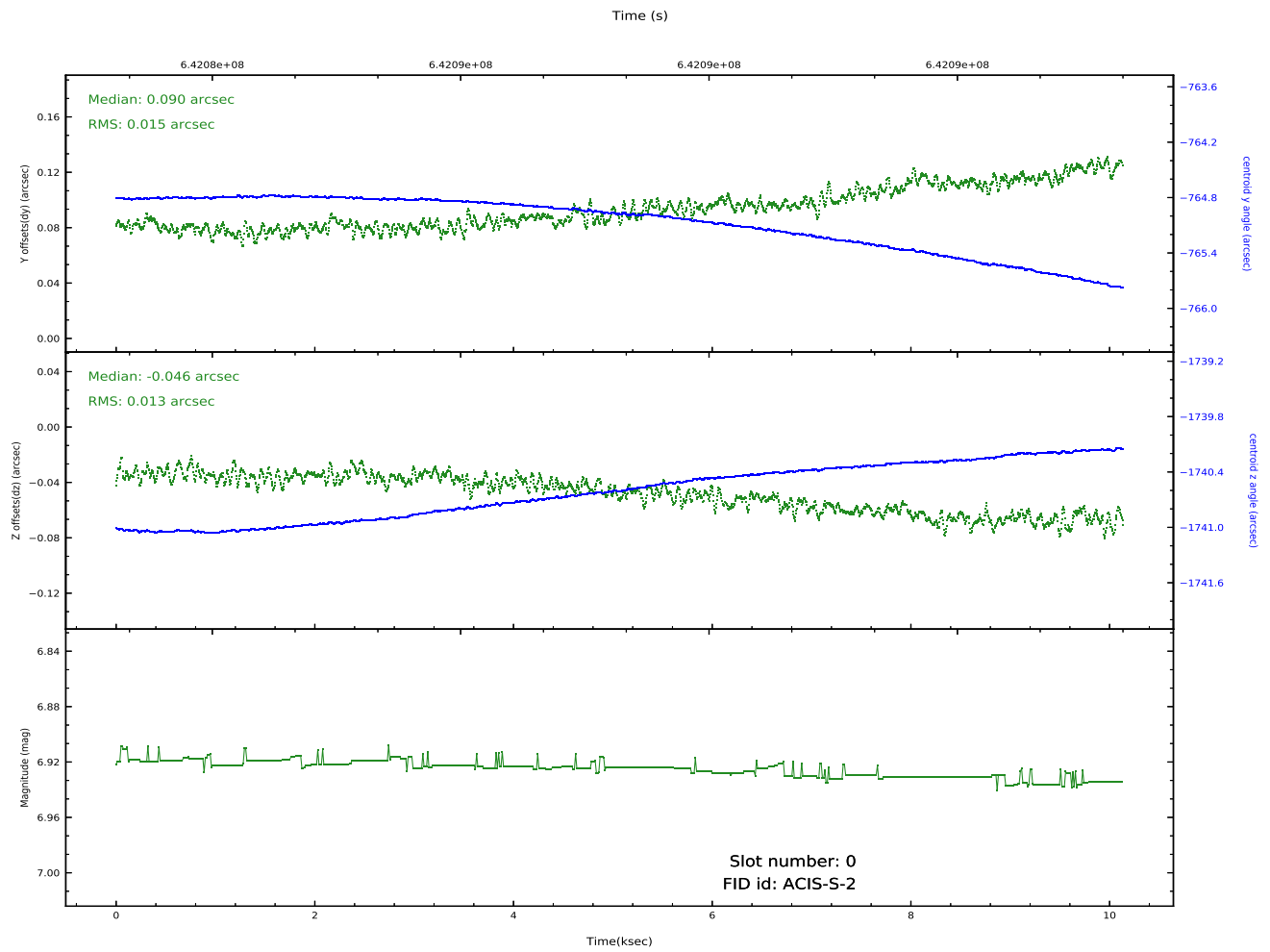
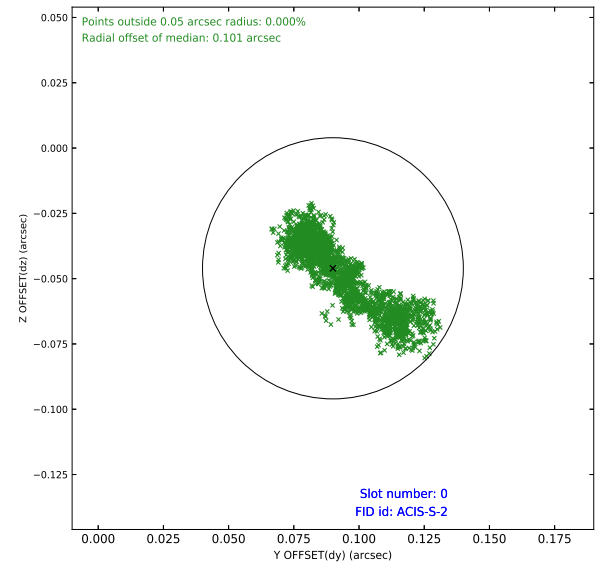
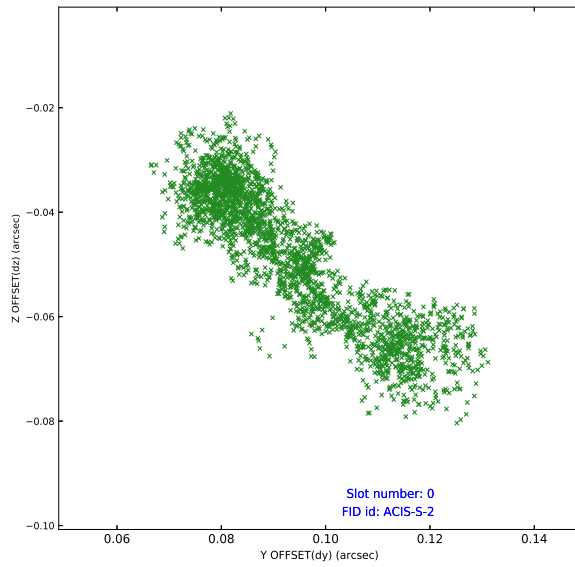


2.4.5 Slot 7

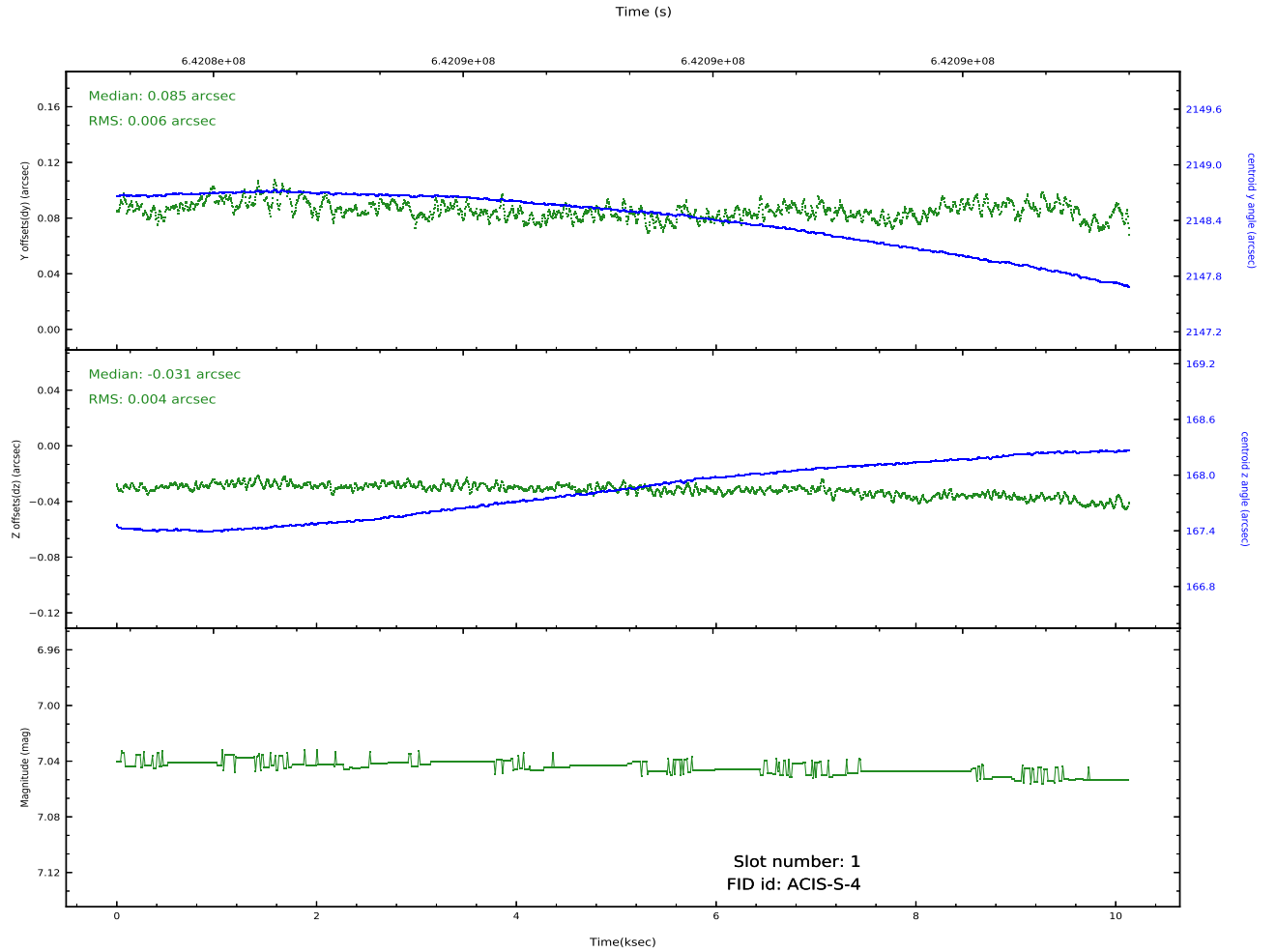
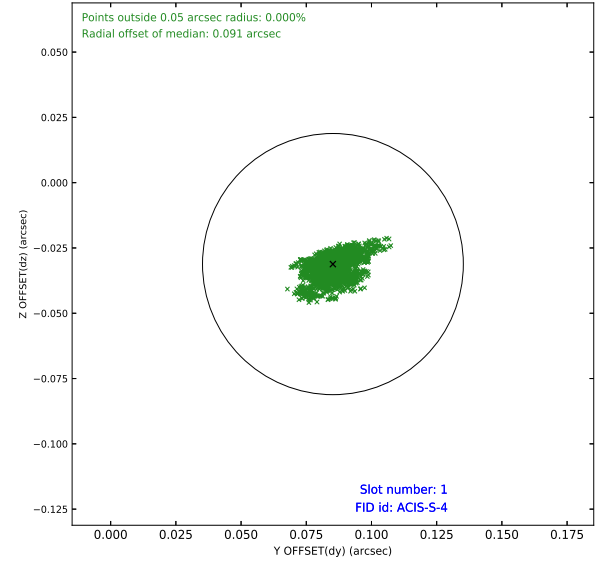
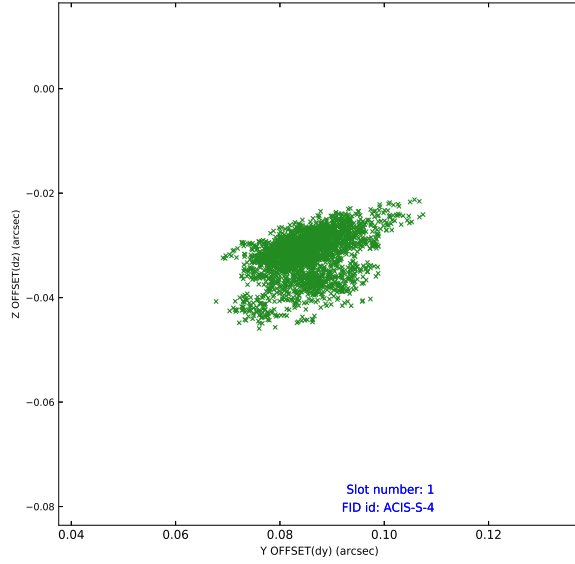


2.5 FID Slots

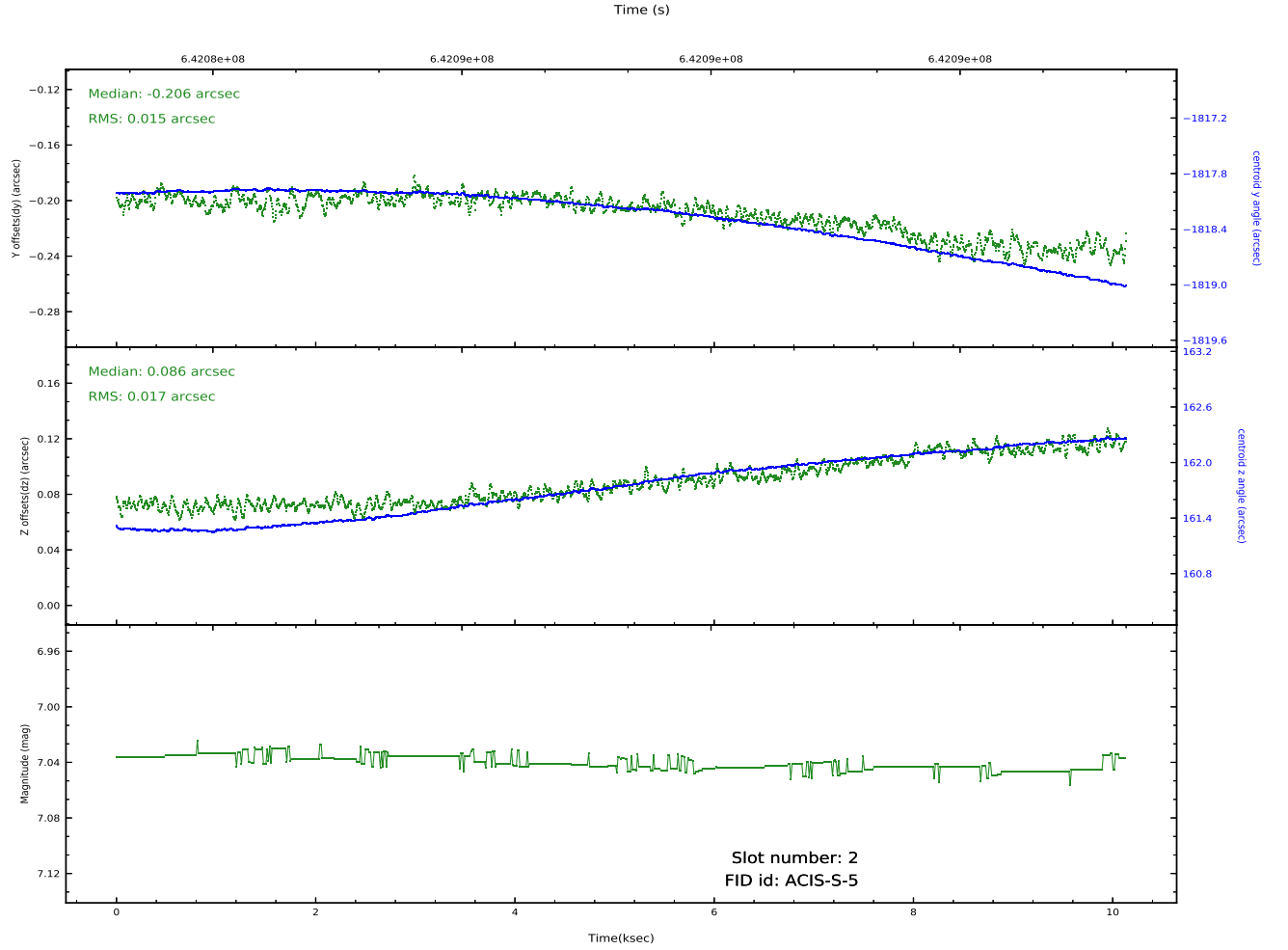
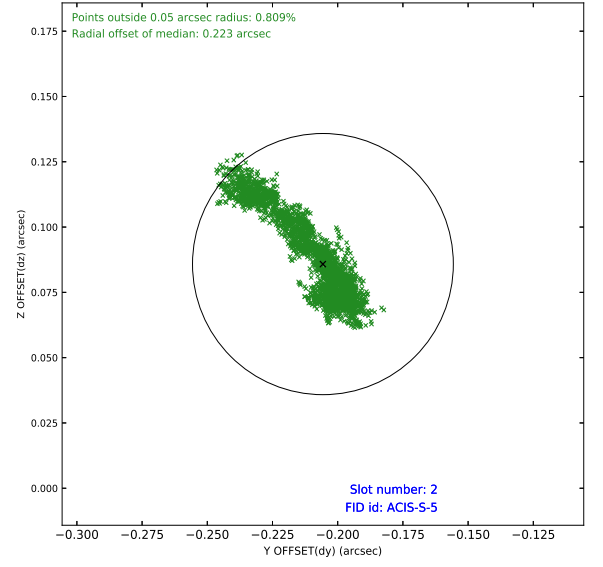
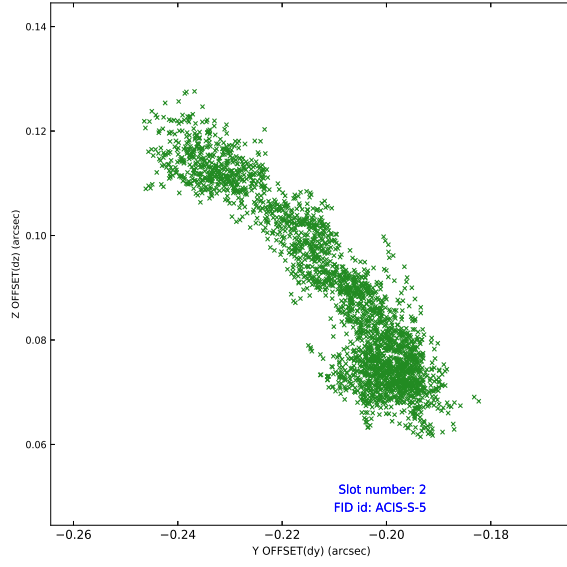
2.5.1 Slot 0



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)	2020.10.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	9.955200148344

A.2 Comments