

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20374 - L2 Version 2
Chandra X-Ray Center

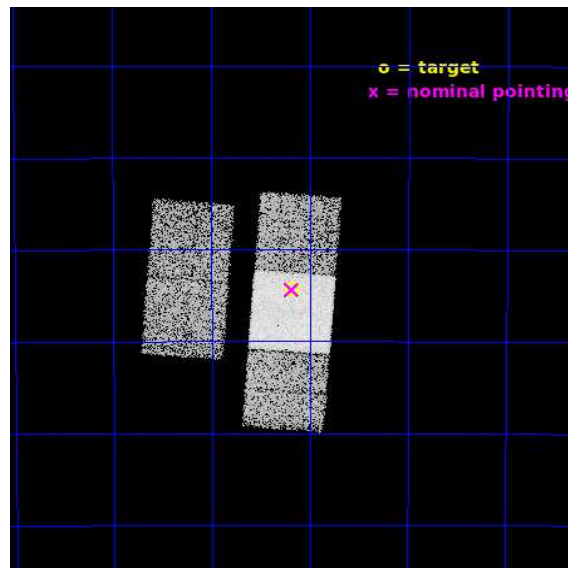
L2 Processing Date : Oct 25 2020

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1 Front

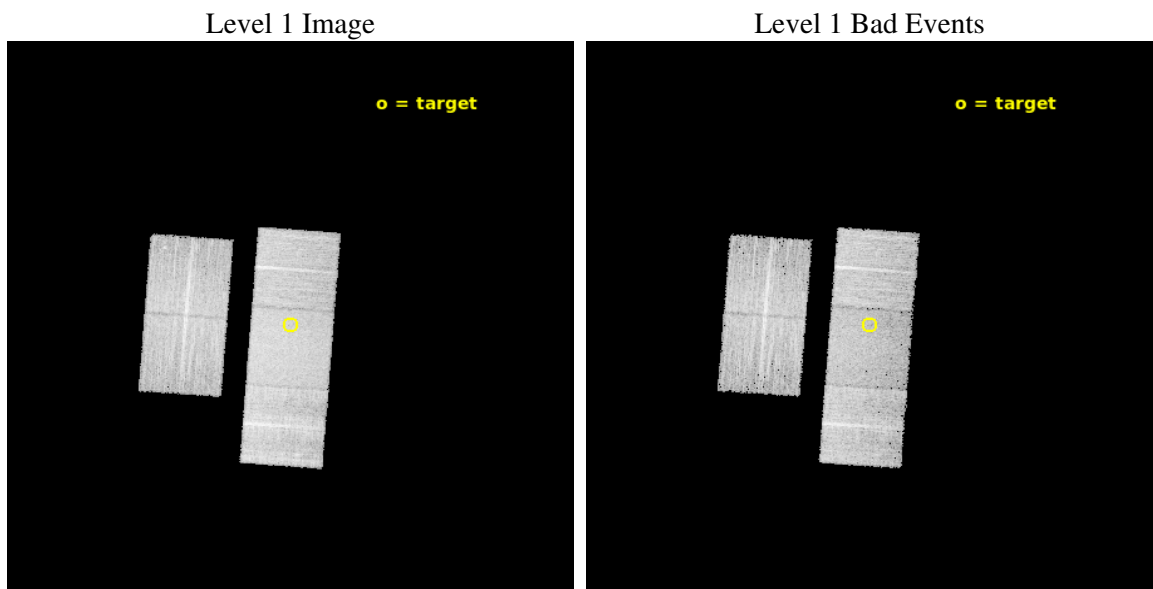
seq_num	703479	Sequence number
obs_id	20374	Observation id
title	HEAVILY REDDENED, LUMINOUS TYPE 1 QSOs: A TRANSITION POPULATION EMERGING FROM THE DUST	Proposal title
observer	Enrico Piconcelli	Principal investigator
object	VHSJ2048-4644	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	312.043333	Observer's specified target RA [deg]
dec_targ	-46.738694	Observer's specified target Dec [deg]
ra_nom	312.04558679686	Nominal RA [deg]
dec_nom	-46.739662715017	Nominal Dec [deg]
roll_nom	94.303554719409	Nominal Roll [deg]
revision	2	Processing version of data
ontime	9054.693130374	Sum of GTIs [s]
livetime	8936.3868986575	Livetime [s]
ontime2	9054.5289703608	Sum of GTIs [s]
ontime3	9054.6110503674	Sum of GTIs [s]
ontime6	9054.6520904303	Sum of GTIs [s]
ontime7	9054.693130374	Sum of GTIs [s]
ontime8	9054.5700104237	Sum of GTIs [s]
l2events	61448	Number of level 2 events



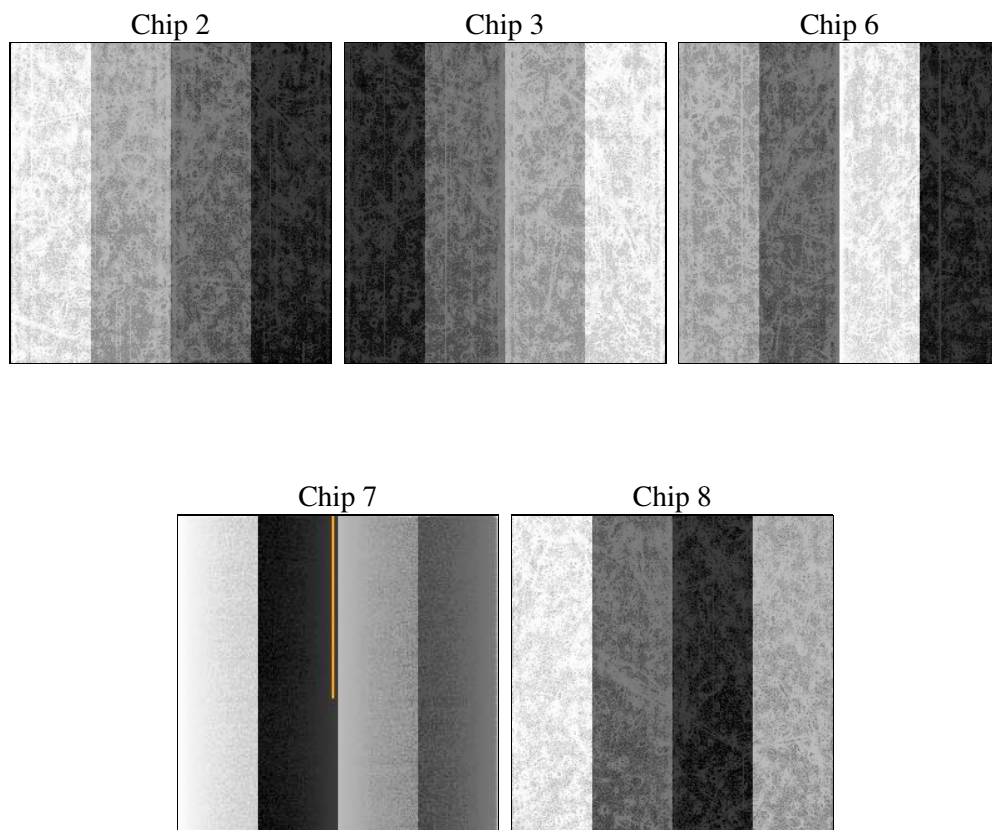
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	9000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	9054.693130374	Sum of GTIs [s]
caldsver	4.9.3	 	ontime2	9054.5289703608	Sum of GTIs [s]
date	2020-10-25T23:47:05	Date and time of file creation	ontime3	9054.6110503674	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	9054.6520904303	Sum of GTIs [s]
			ontime7	9054.693130374	Sum of GTIs [s]
			ontime8	9054.5700104237	Sum of GTIs [s]
			l1events	380995	Number of level 1 events

2.1.4 Events

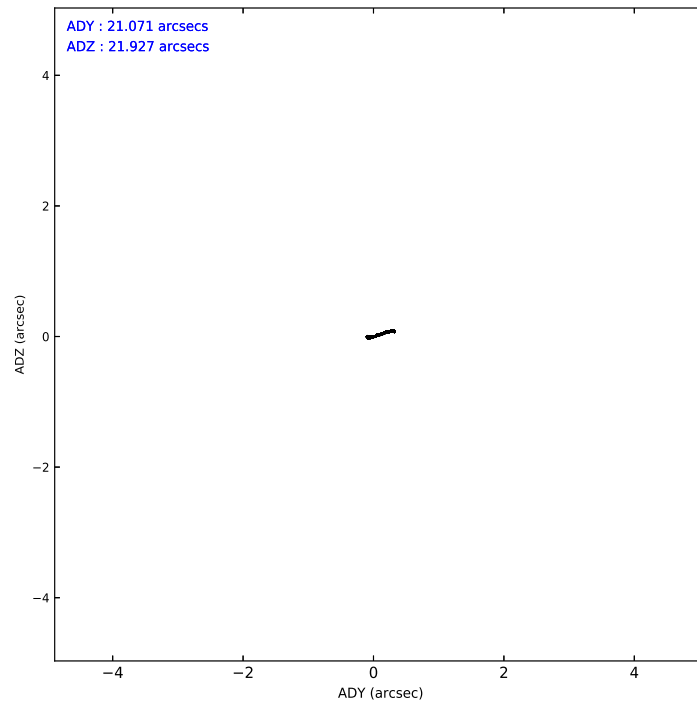
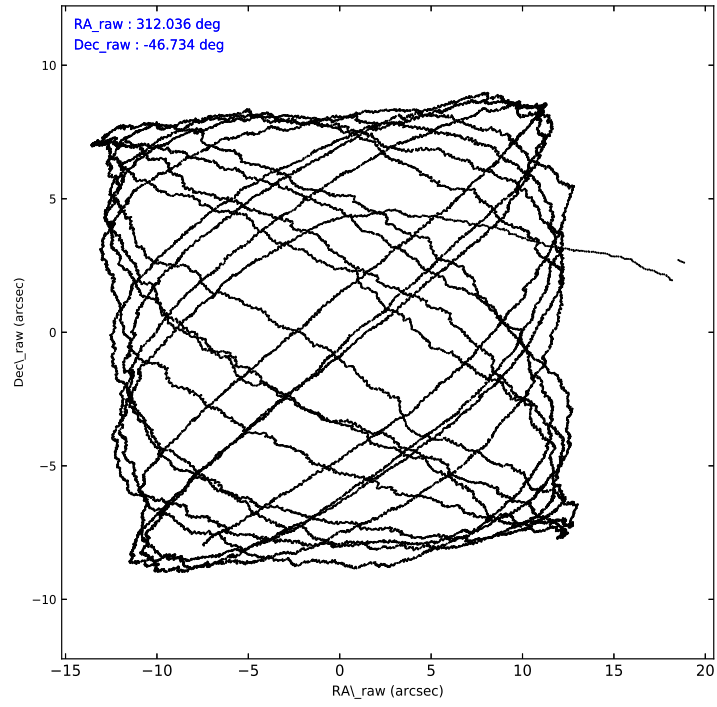
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	68686	66723	72271	86657	86658
rejected events	61573	59844	64724	49878	65343
rejected %	89%	89%	89%	57%	75%

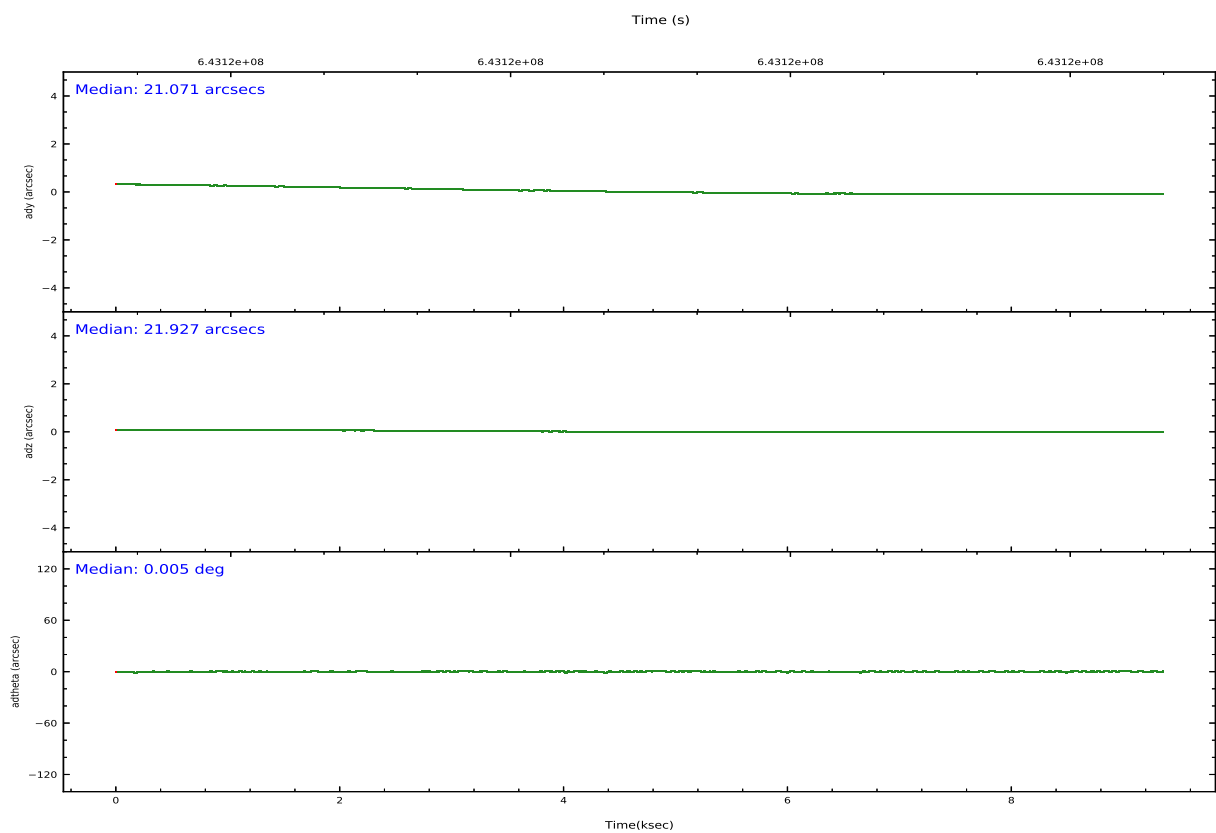
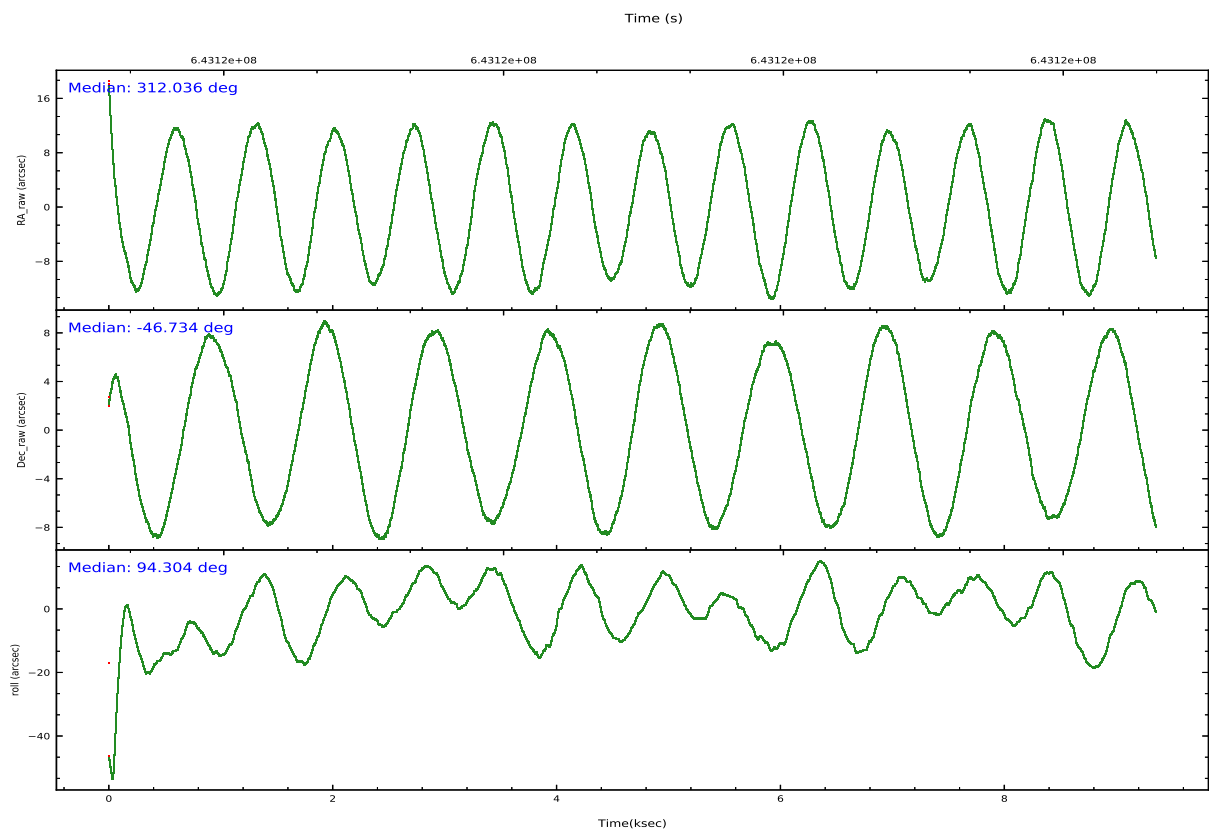
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	2616	2346	2253	3036	6157
	3%	3%	3%	3%	7%
grade 1 events	37	35	30	112	65
	0%	0%	0%	0%	0%
grade 2 events	1691	1515	1981	7542	5080
	2%	2%	2%	8%	5%
grade 3 events	705	706	699	2920	2302
	1%	1%	0%	3%	2%
grade 4 events	654	702	668	2854	2069
	0%	1%	0%	3%	2%
grade 5 events	2360	2987	2939	8172	4512
	3%	4%	4%	9%	5%
grade 6 events	1449	1612	1951	20438	5708
	2%	2%	2%	23%	6%
grade 7 events	59174	56820	61750	41583	60765
	86%	85%	85%	47%	70%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-23678	ACIS-23678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	312.058644	312.04558679686	CCD I2 on	O1	Y
[deg] Pointing Dec	-46.756579	-46.739662715017	CCD I3 on	O2	Y
[deg] Pointing Roll	94.160549	94.30355471940899	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	N	N
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.145094680475	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01257209746719923	CCD S4 on	O3	Y
[s] Observation start time (MET)	643116830.184000	643115802.06993	CCD S5 on	N	N
Observation start date	2018-05-19T11:32:41	2018-05-19T11:16:42	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	643125830.184000	643127147.2831	On-chip summing requested	N	N
Observation end date	2018-05-19T14:02:41	2018-05-19T14:25:47	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



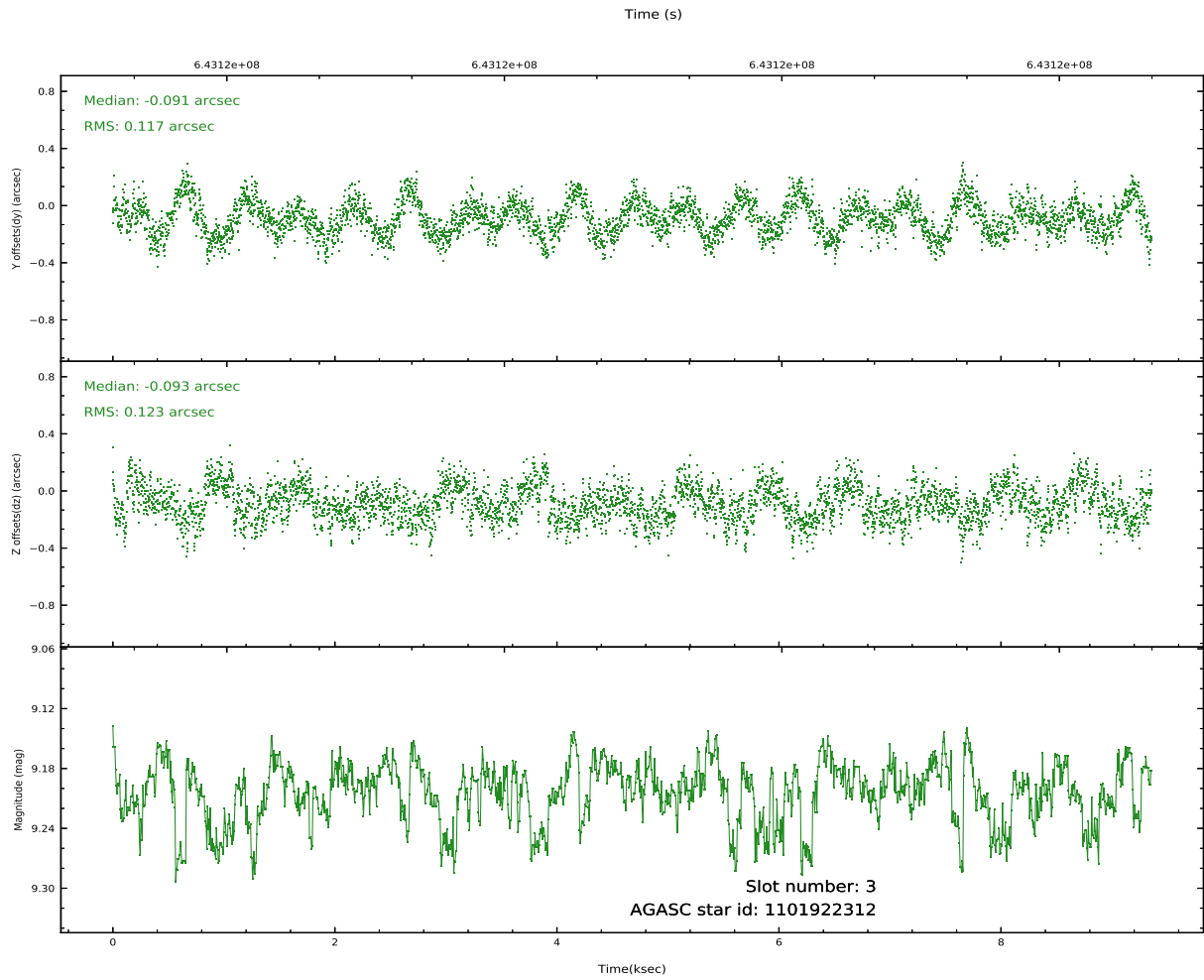
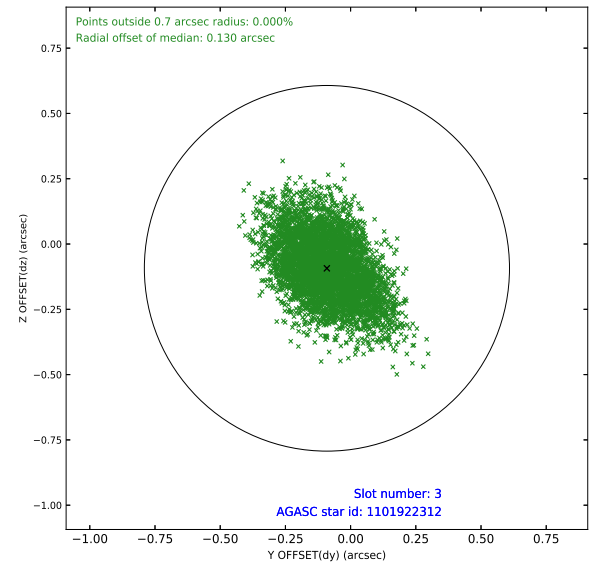
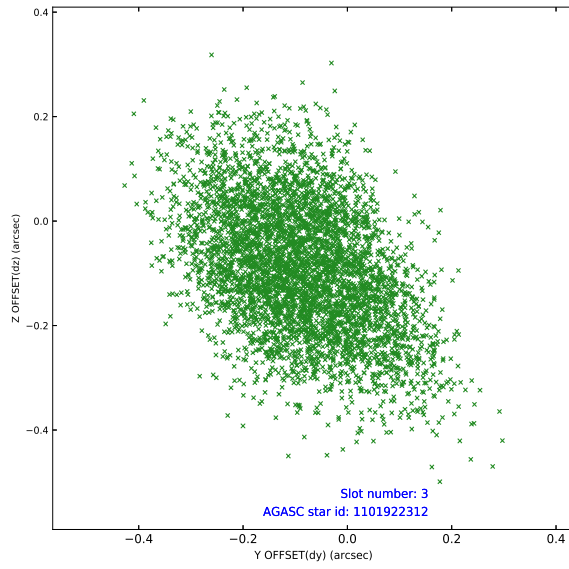


Slot Statistics

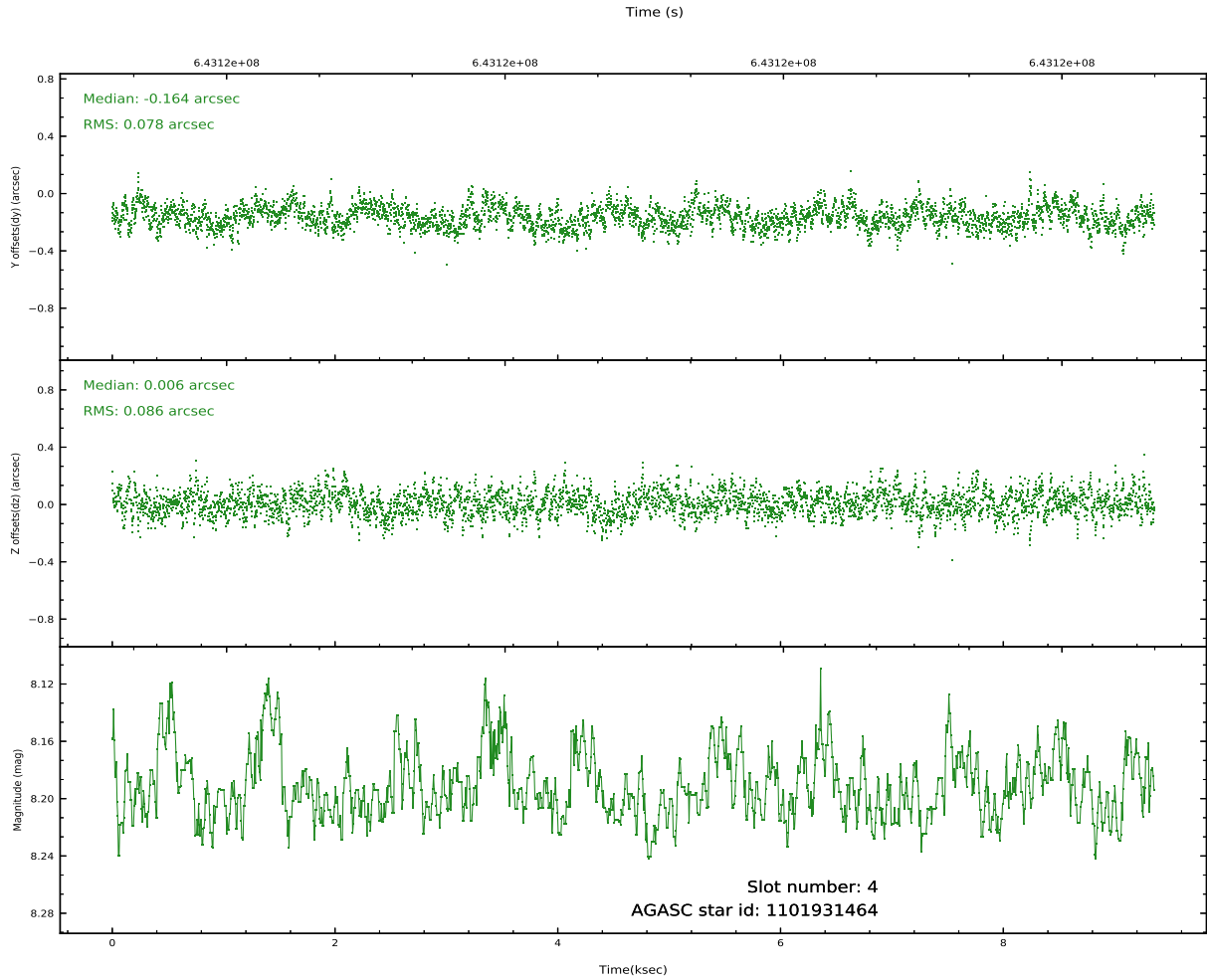
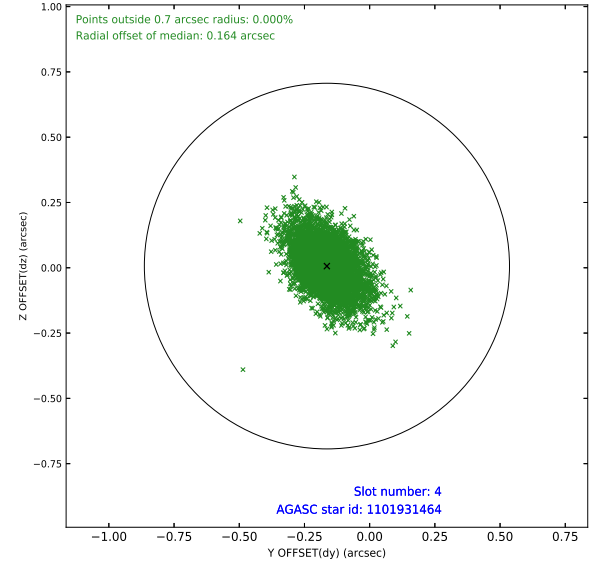
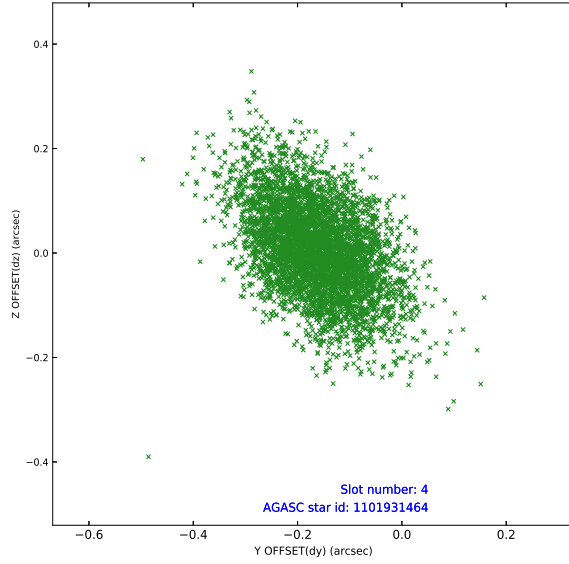
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.13	2283	1.000	0.153	-0.141	0.011	0.017	0.000000	0.000000	-774.38	-1743
1	FID		ACIS-S-4	7.25	2283	1.000	0.064	-0.036	0.007	0.012	0.000000	0.000000	2138.84	164
2	FID		ACIS-S-5	7.24	2282	1.000	-0.249	0.185	0.011	0.017	0.000000	0.000000	-1826.59	159
3	GUIDE	used	1101922312	9.20	4552	1.000	-0.091	-0.093	0.178	0.295	311.465073	-46.668371	418.03	1440
4	GUIDE	used	1101931464	8.19	4563	1.000	-0.164	0.006	0.119	0.207	311.501392	-46.527765	917.07	1317
5	GUIDE	used	1101931984	8.12	4563	1.000	-0.181	-0.132	0.126	0.214	311.360861	-46.190921	2149.10	1587
6	GUIDE	used	1102053912	7.60	4564	1.000	0.116	0.236	0.129	0.228	312.316046	-46.648828	339.63	-661
7	GUIDE	used	1102447136	9.77	4539	1.000	0.316	-0.005	0.273	0.467	311.459958	-47.372672	-2111.51	1617

2.4 Star Slots

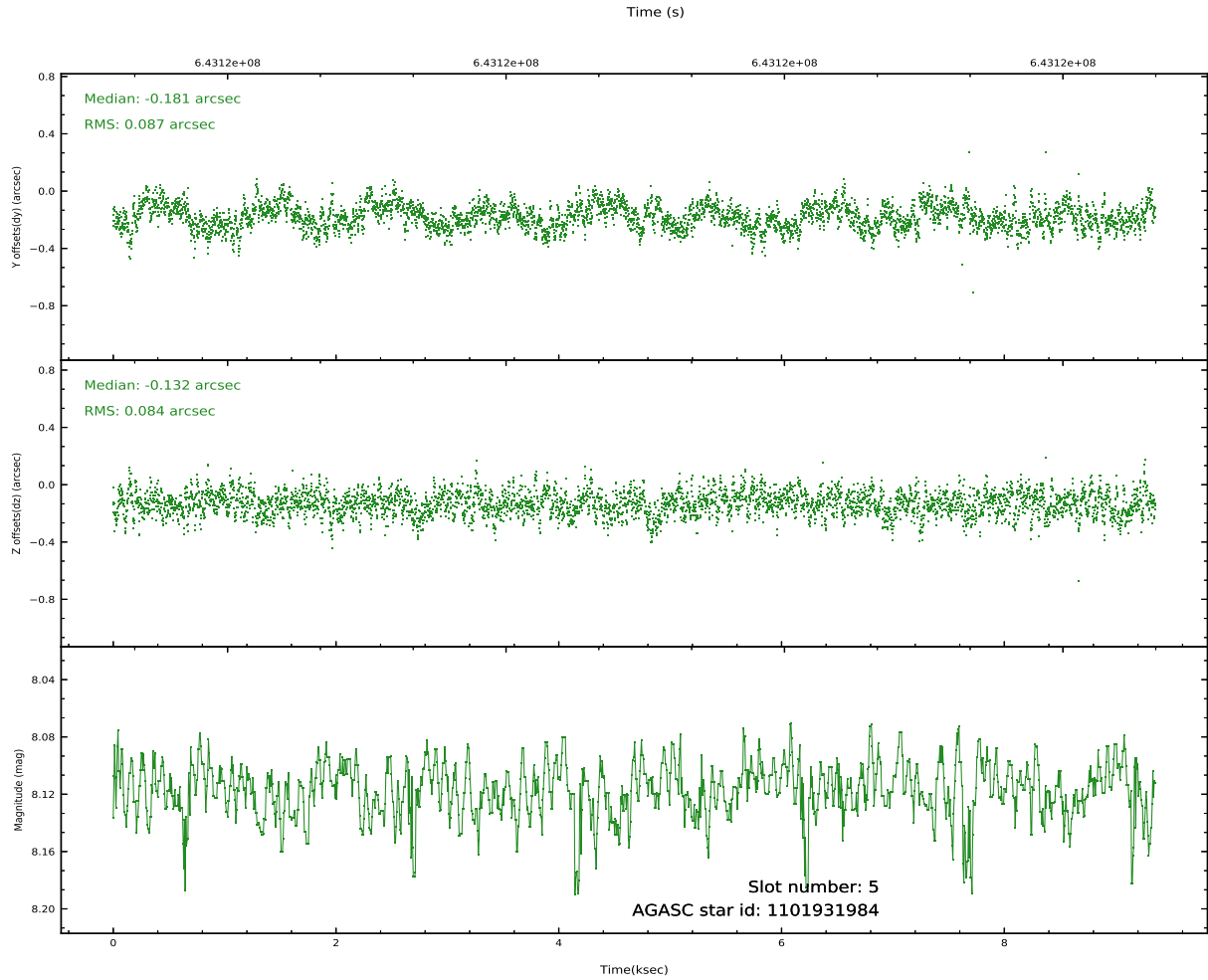
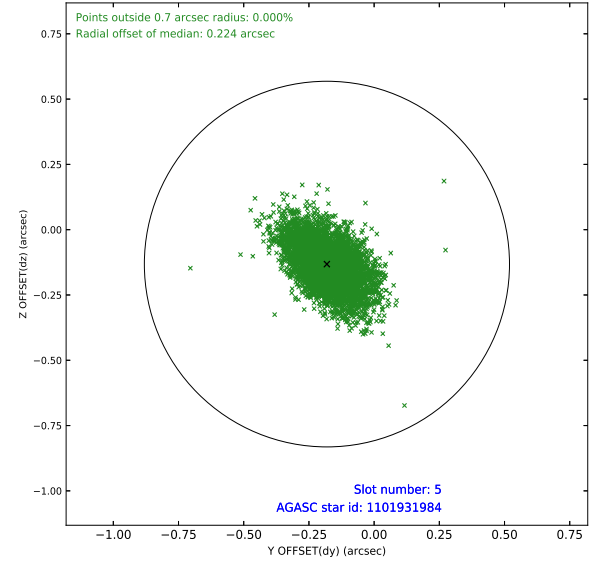
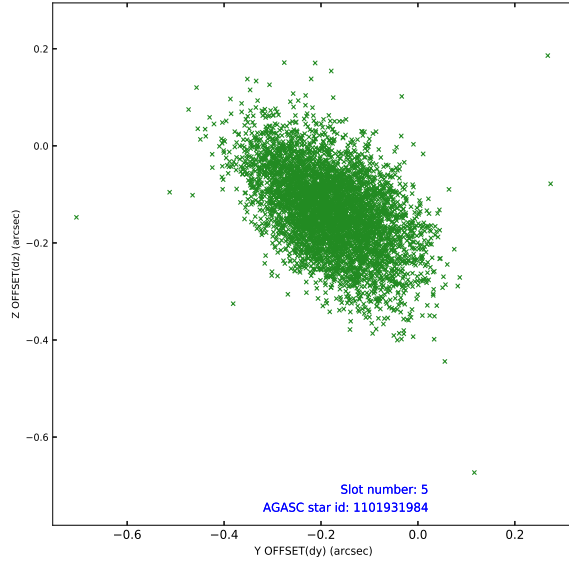
2.4.1 Slot 3



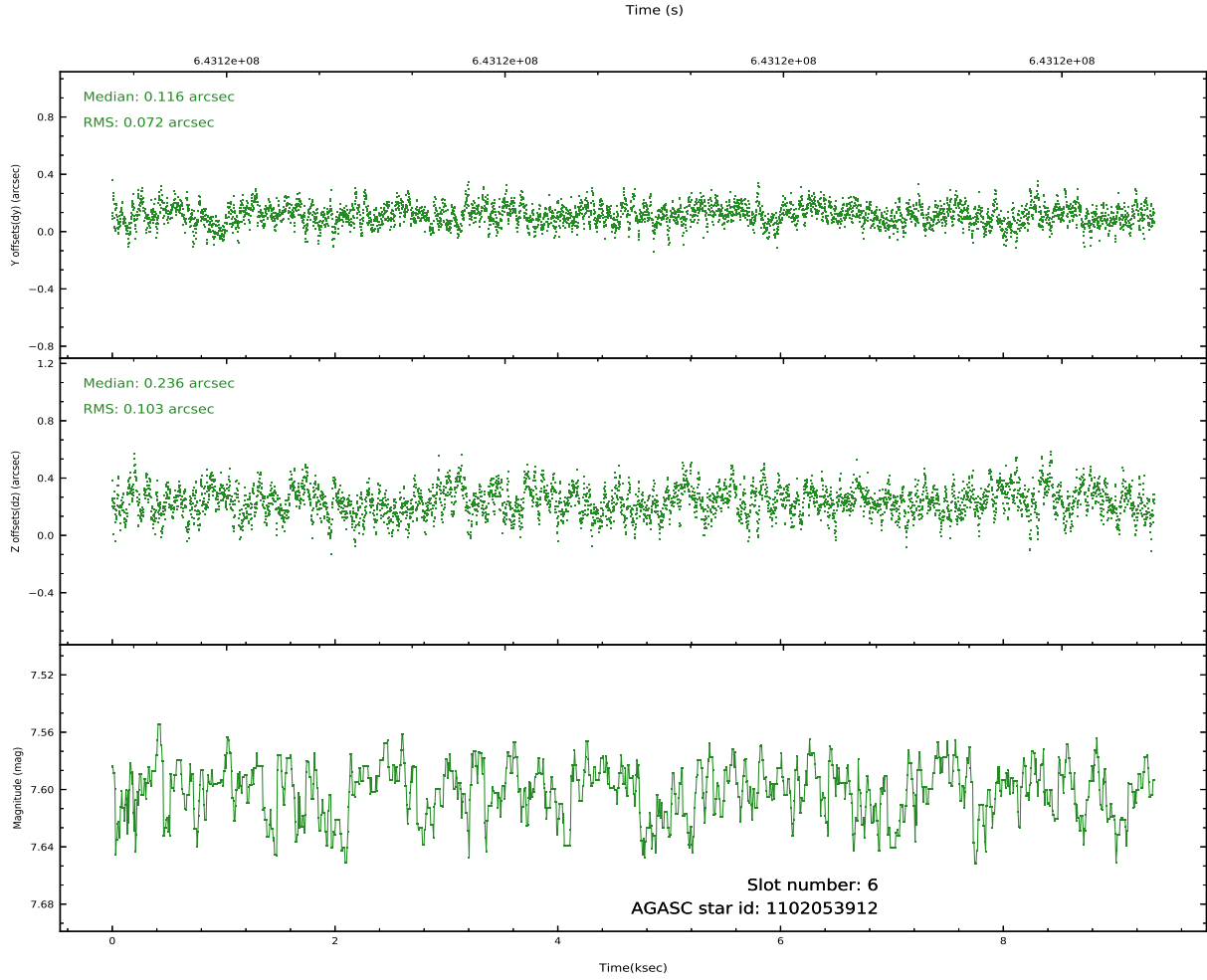
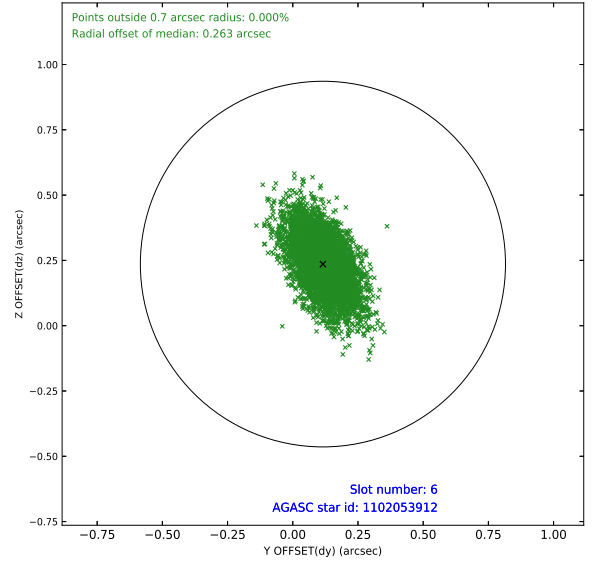
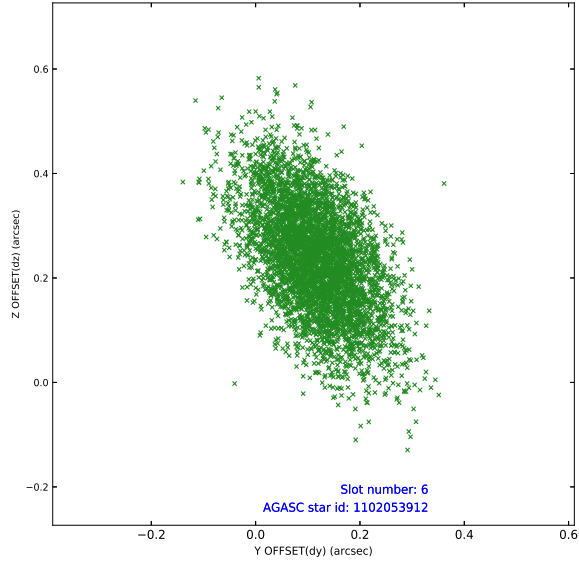
2.4.2 Slot 4



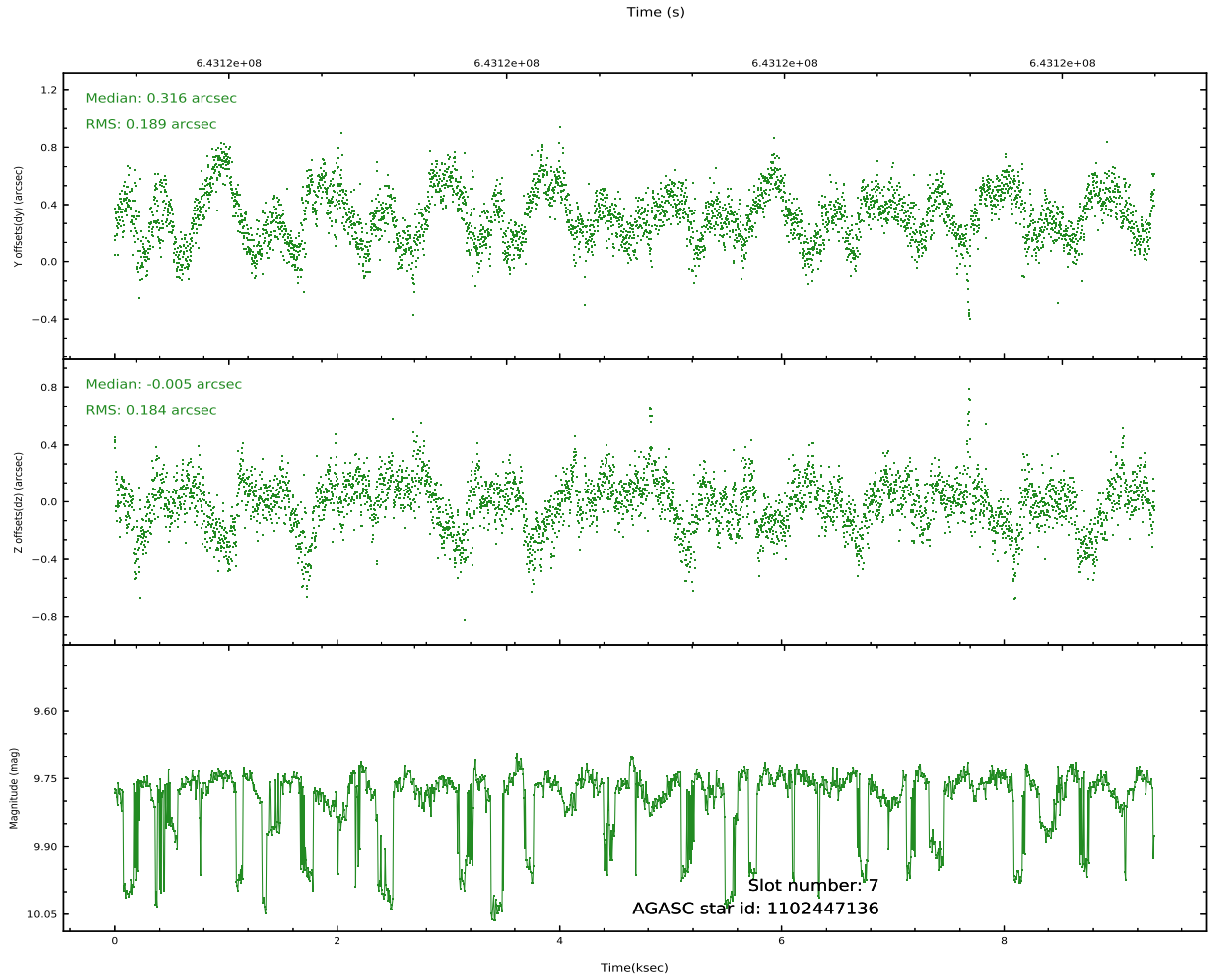
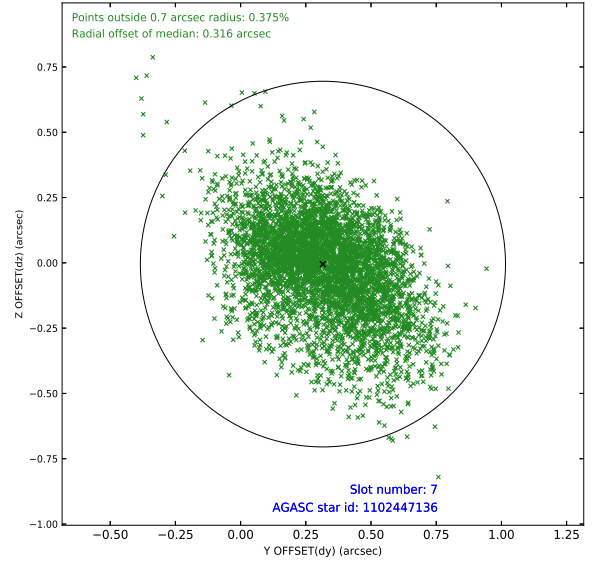
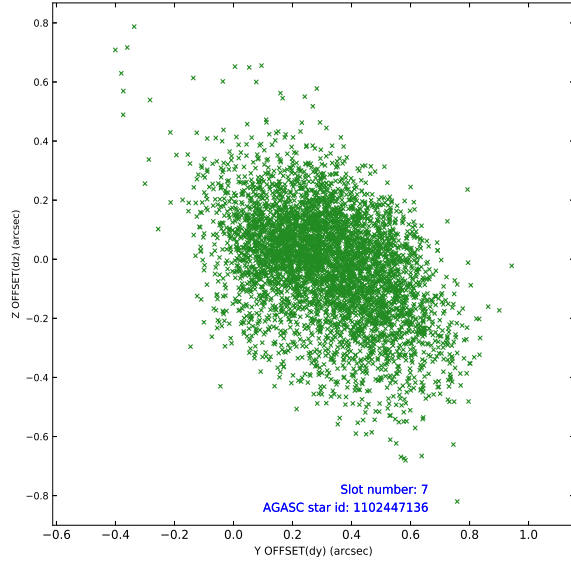
2.4.3 Slot 5



2.4.4 Slot 6

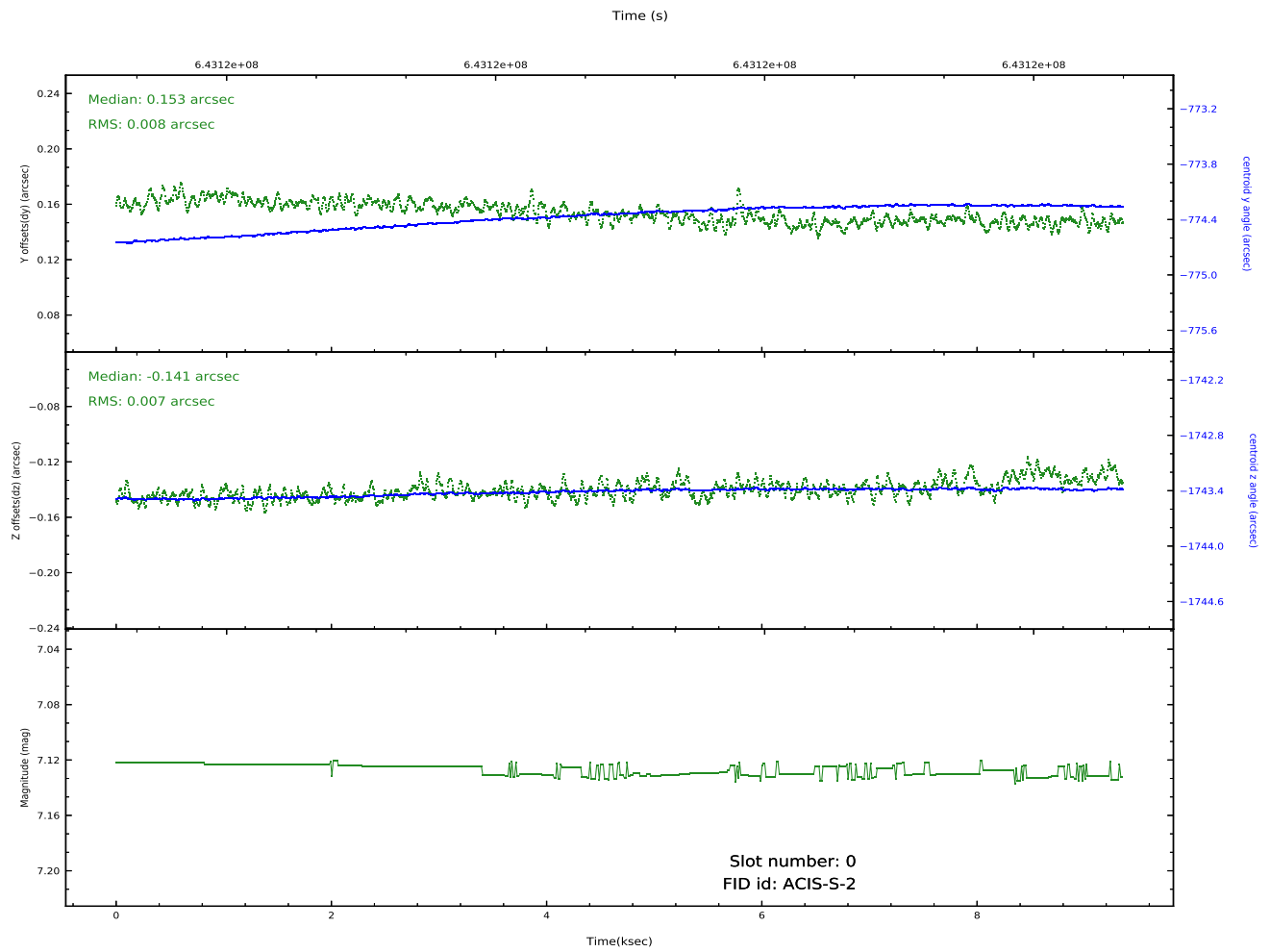
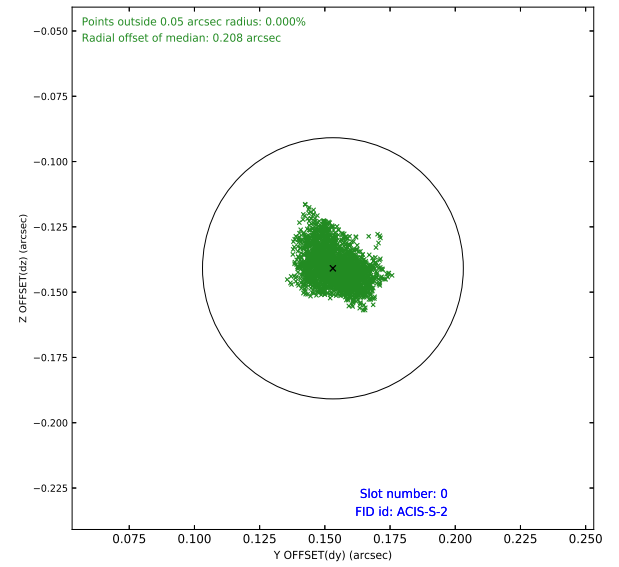
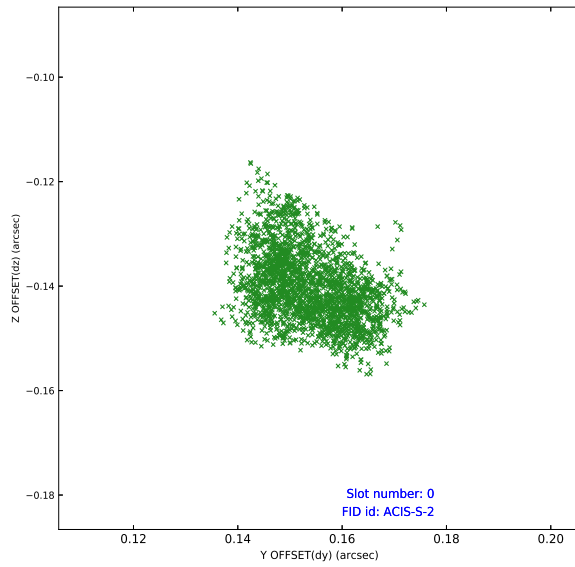


2.4.5 Slot 7

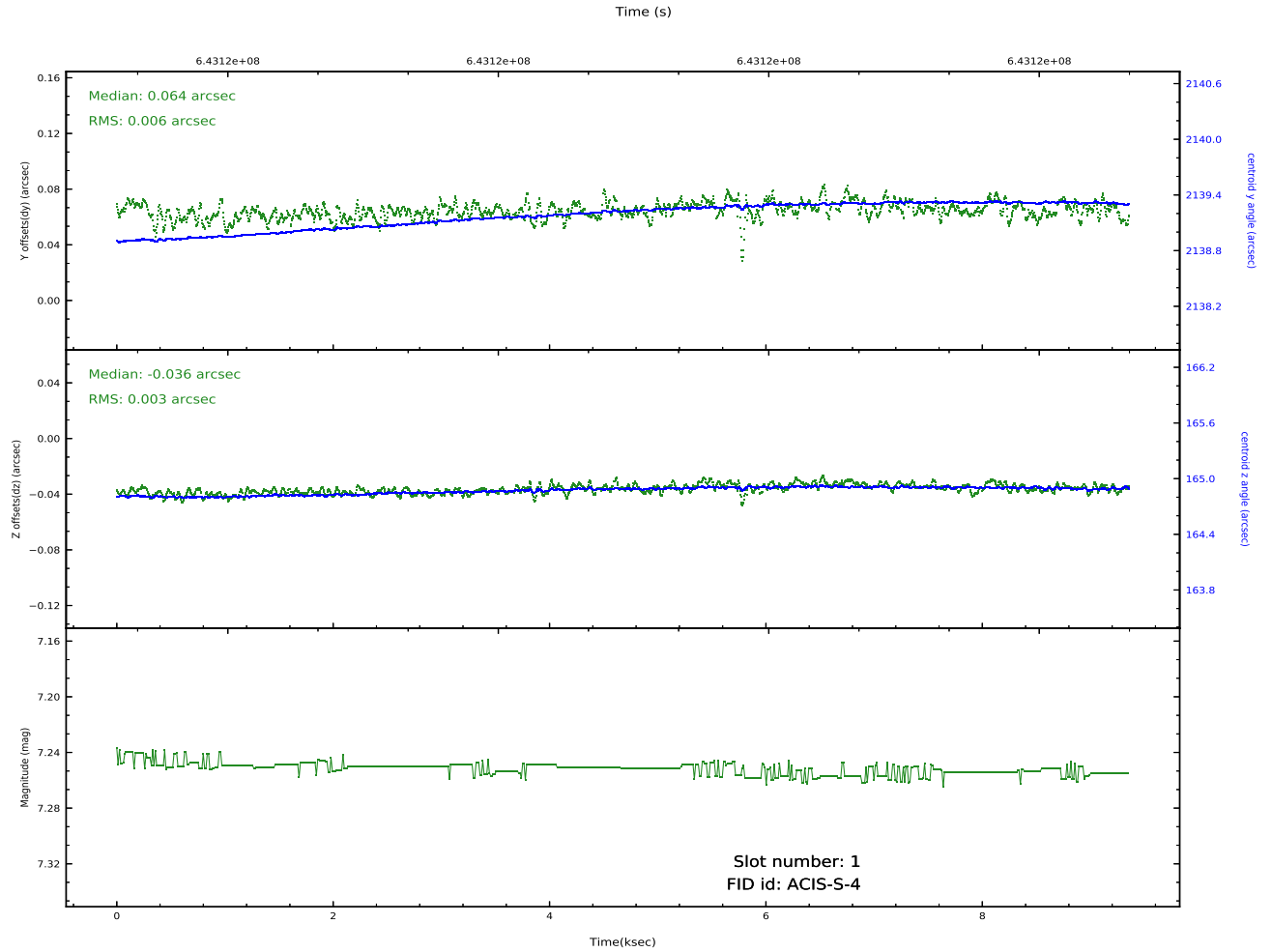
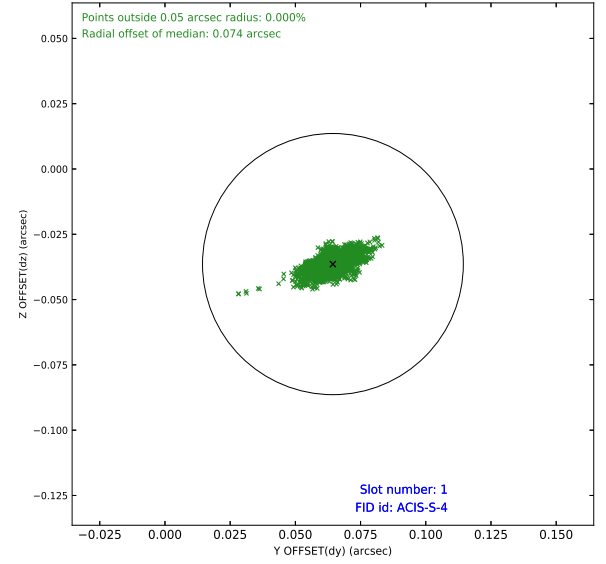
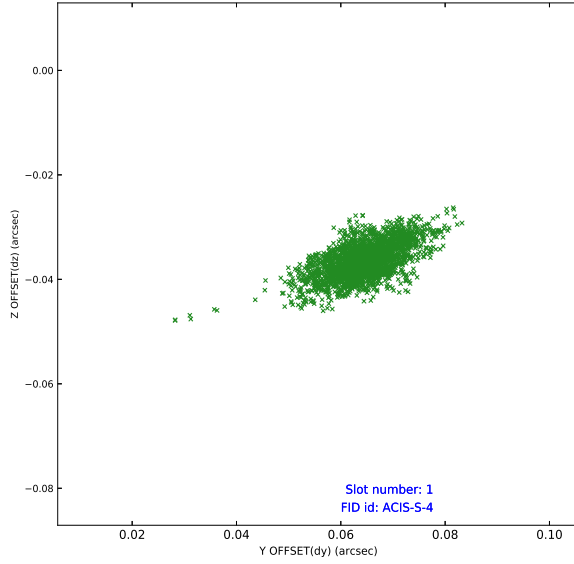


2.5 FID Slots

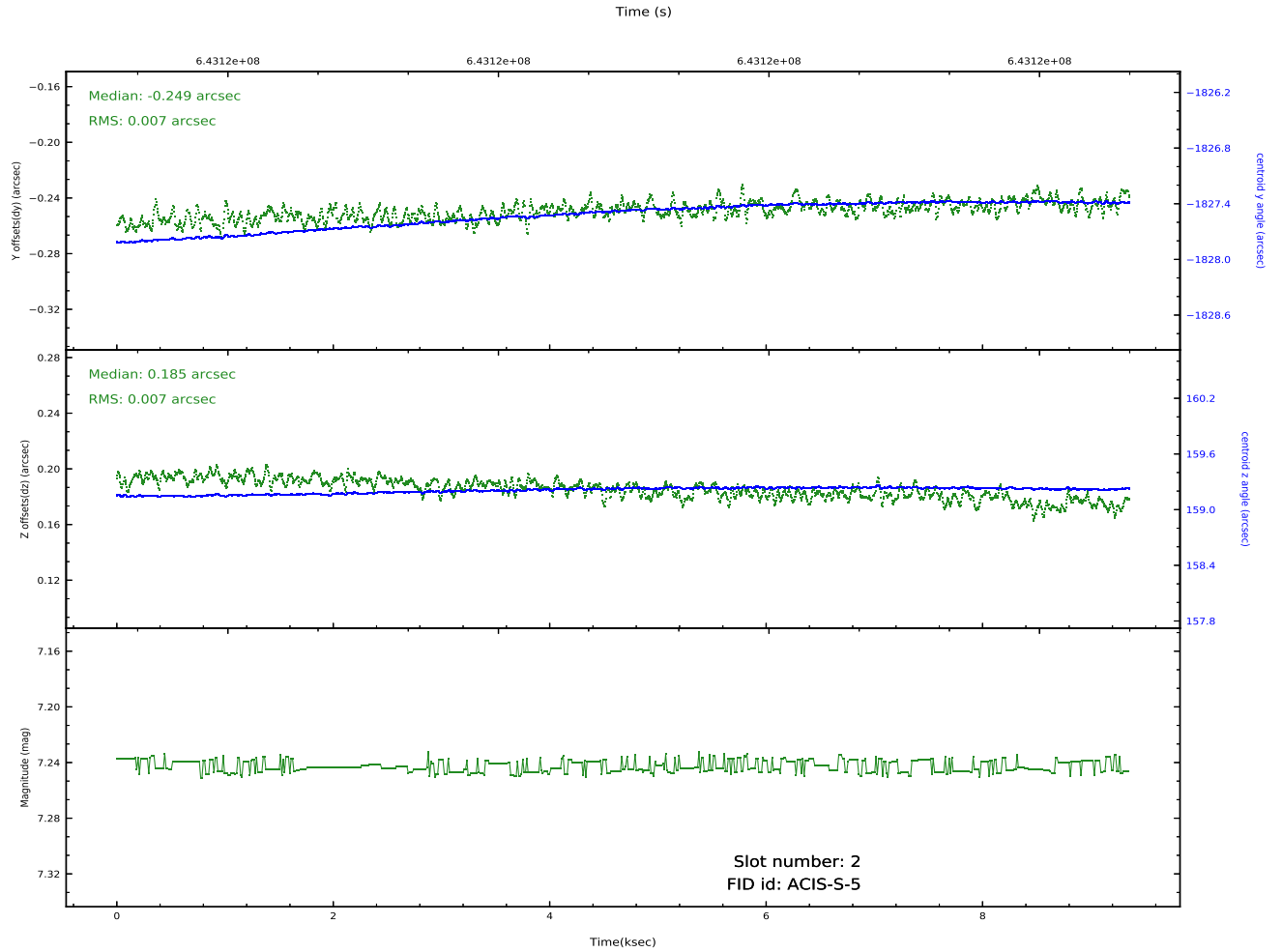
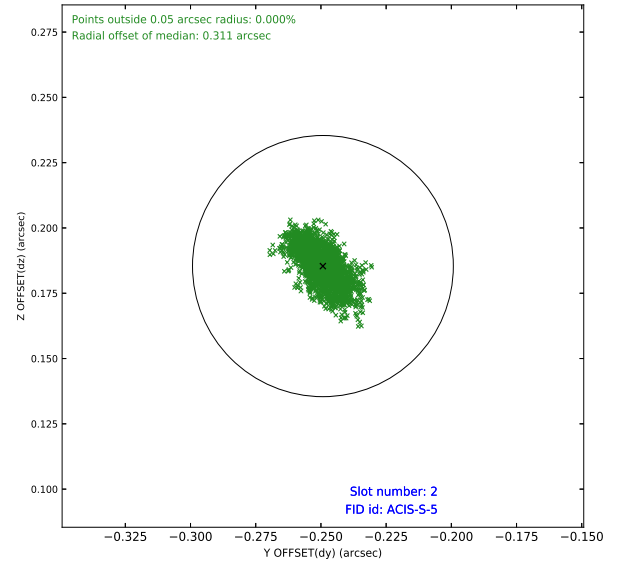
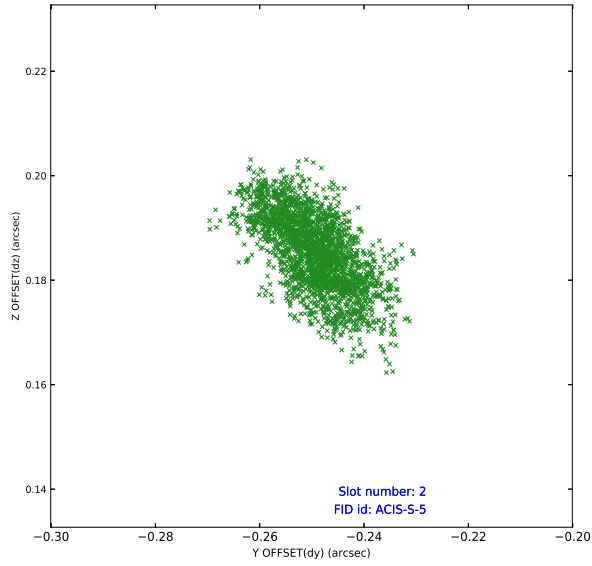
2.5.1 Slot 0



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	9.0546931271553

A.2 Comments