

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20603 - L2 Version 2
Chandra X-Ray Center

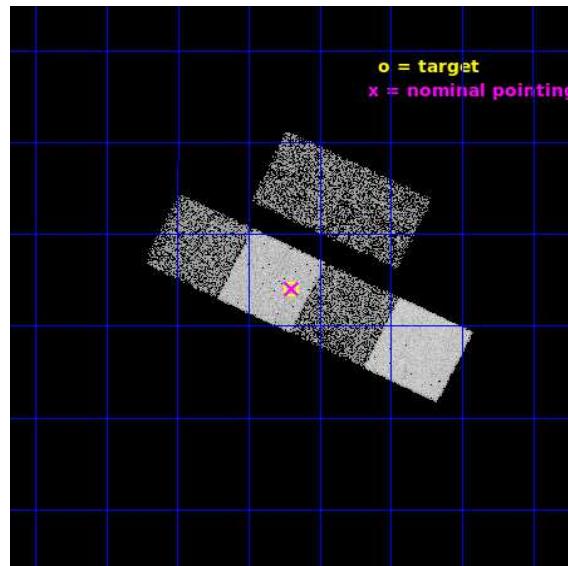
L2 Processing Date : Oct 25 2020

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

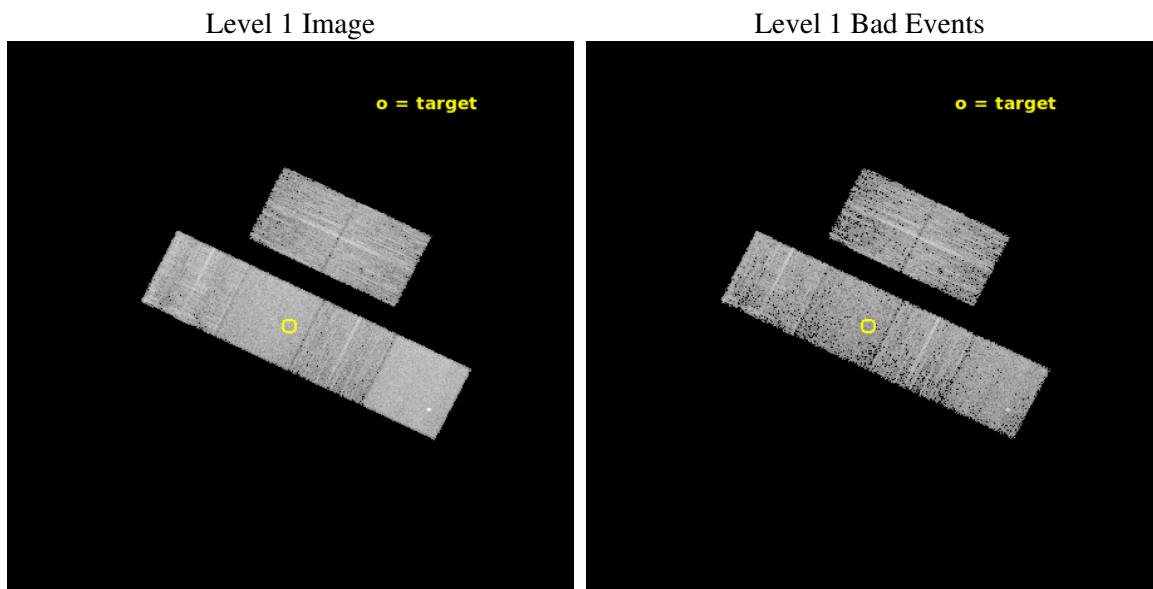
seq_num	703604	Sequence number
obs_id	20603	Observation id
title	Exploratory X-ray Monitoring of z>4 Radio-Quiet Quasars	Proposal t
observer	Ohad Shemmer	Principal investigator
object	PSS 1326+0743	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	201.549167	Observer's specified target RA [deg]
dec_targ	7.732639	Observer's specified target Dec [deg]
ra_nom	201.54908081827	Nominal RA [deg]
dec_nom	7.7342689643914	Nominal Dec [deg]
roll_nom	206.13217021075	Nominal Roll [deg]
revision	2	Processing version of data
ontime	4953.6000738144	Sum of GTIs [s]
livetime	4890.8746069799	Livetime [s]
ontime2	4953.6000738144	Sum of GTIs [s]
ontime3	4953.6000738144	Sum of GTIs [s]
ontime5	4953.6000738144	Sum of GTIs [s]
ontime6	4953.6000738144	Sum of GTIs [s]
ontime7	4953.6000738144	Sum of GTIs [s]
ontime8	4953.6000738144	Sum of GTIs [s]
l2events	61323	Number of level 2 events



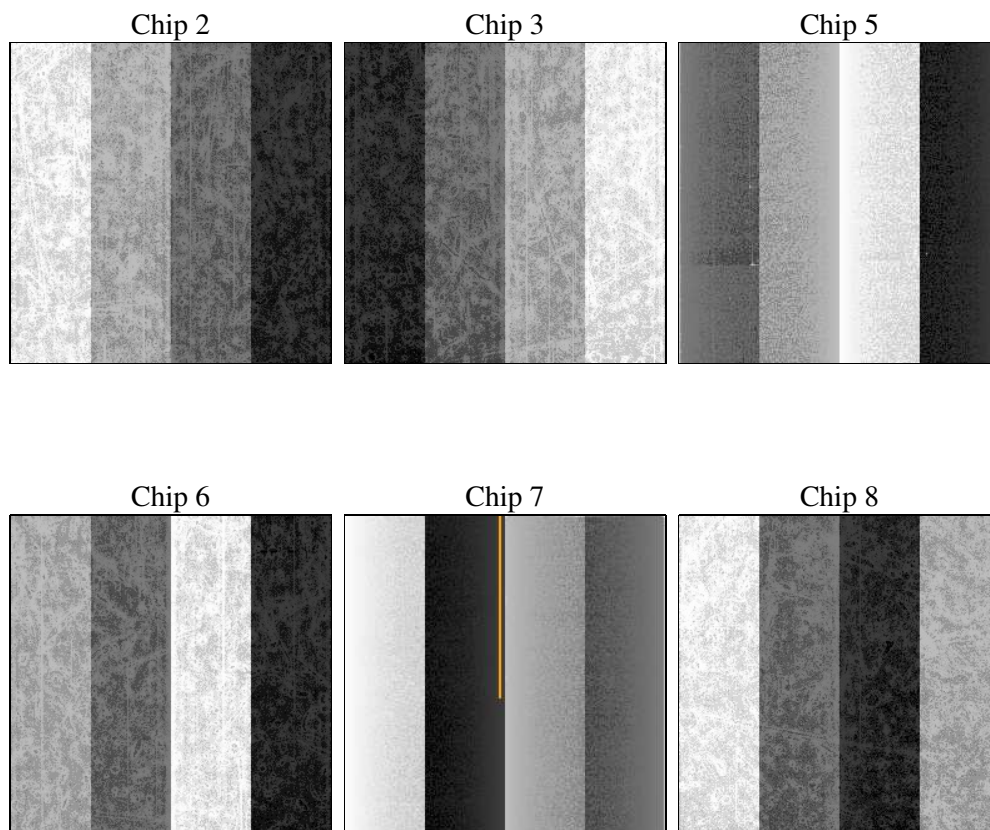
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	4953.6000738144	Sum of GTIs [s]
caldsver	4.9.3	 	ontime2	4953.6000738144	Sum of GTIs [s]
date	2020-10-25T19:47:41	Date and time of file creation	ontime3	4953.6000738144	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	4953.6000738144	Sum of GTIs [s]
			ontime6	4953.6000738144	Sum of GTIs [s]
			ontime7	4953.6000738144	Sum of GTIs [s]
			ontime8	4953.6000738144	Sum of GTIs [s]
			l1events	261869	Number of level 1 events

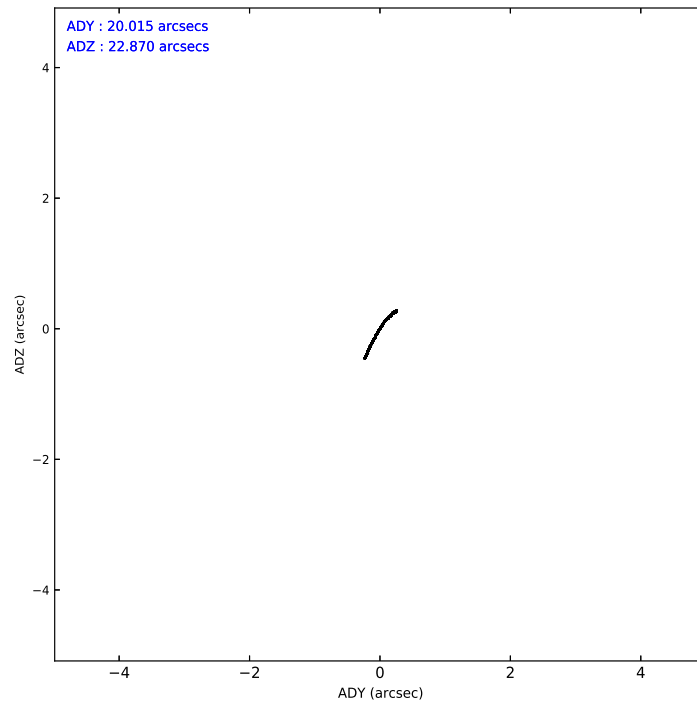
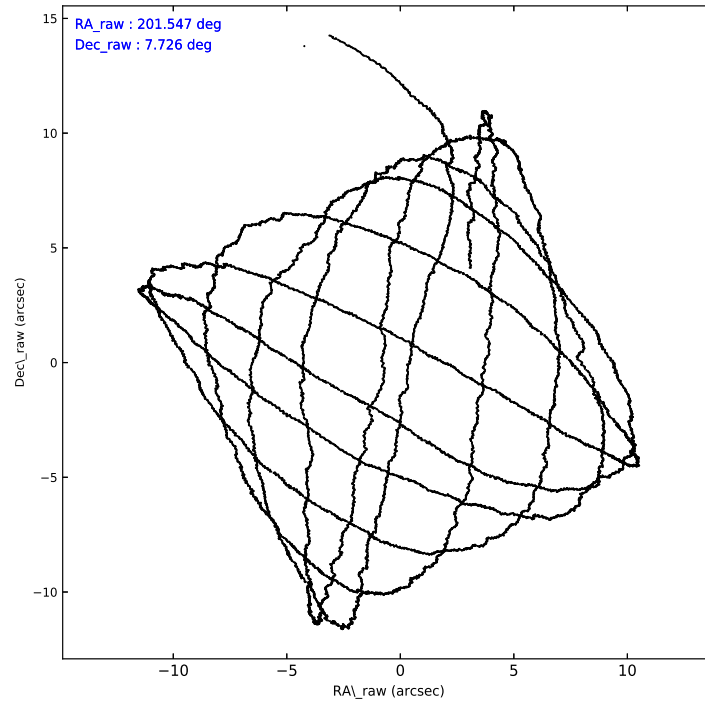
2.1.4 Events

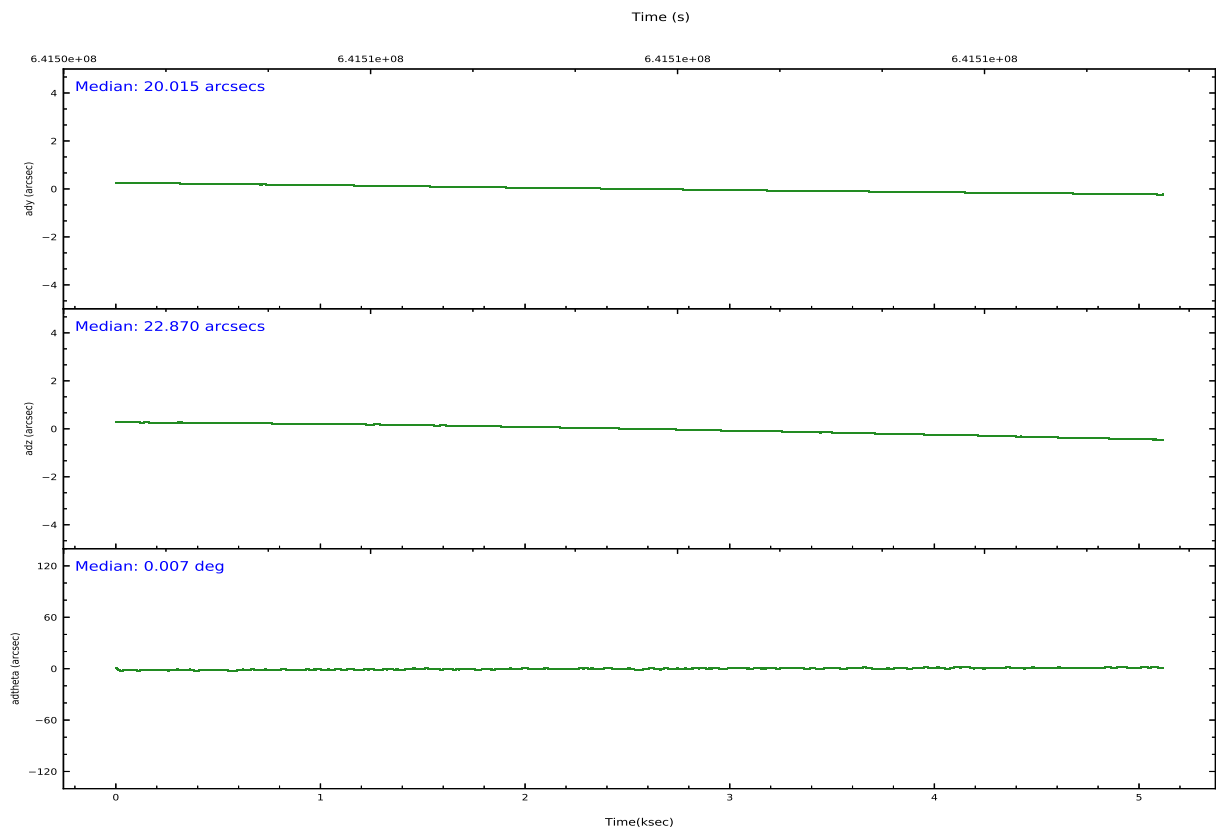
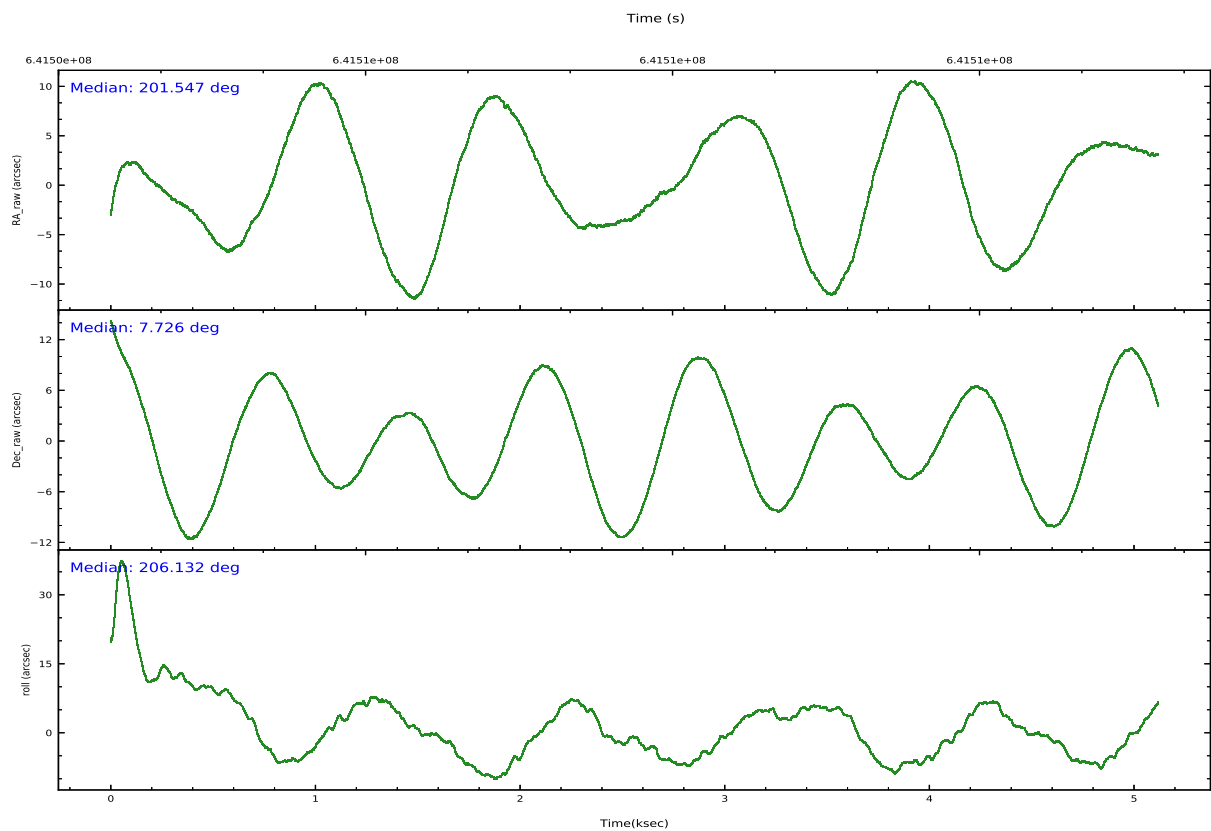
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	38039	35038	57698	35508	47364	48222	grade 0 events	1401	1431	1757	1499	1817	3883
rejected events	34092	31209	29831	31173	26582	34973		3%	4%	3%	4%	3%	8%
rejected %	89%	89%	51%	87%	56%	72%	grade 1 events	25	13	128	24	67	41
								0%	0%	0%	0%	0%	0%
							grade 2 events	994	778	9229	998	4398	3181
								2%	2%	15%	2%	9%	6%
							grade 3 events	397	418	856	419	1616	1389
								1%	1%	1%	1%	3%	2%
							grade 4 events	377	417	839	433	1638	1320
								0%	1%	1%	1%	3%	2%
							grade 5 events	1494	1684	4069	1756	4745	2575
								3%	4%	7%	4%	10%	5%
							grade 6 events	779	787	15196	990	11330	3481
								2%	2%	26%	2%	23%	7%
							grade 7 events	32572	29510	25624	29389	21753	32352
								85%	84%	44%	82%	45%	67%

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	FAINT	FAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	201.561785	201.54908081827	CCD I2 on	O2	Y
[deg] Pointing Dec	7.748787	7.7342689643914	CCD I3 on	O3	Y
[deg] Pointing Roll	205.998298	206.13217021075	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O1	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	Y	Y
[s] Observation start time (MET)	641504873.184000	641503541.0371701	CCD S5 on	N	N
Observation start date	2018-04-30T19:46:44	2018-04-30T19:25:41	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	641509873.184000	641510509.50008	On-chip summing requested	N	N
Observation end date	2018-04-30T21:10:04	2018-04-30T21:21:49	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



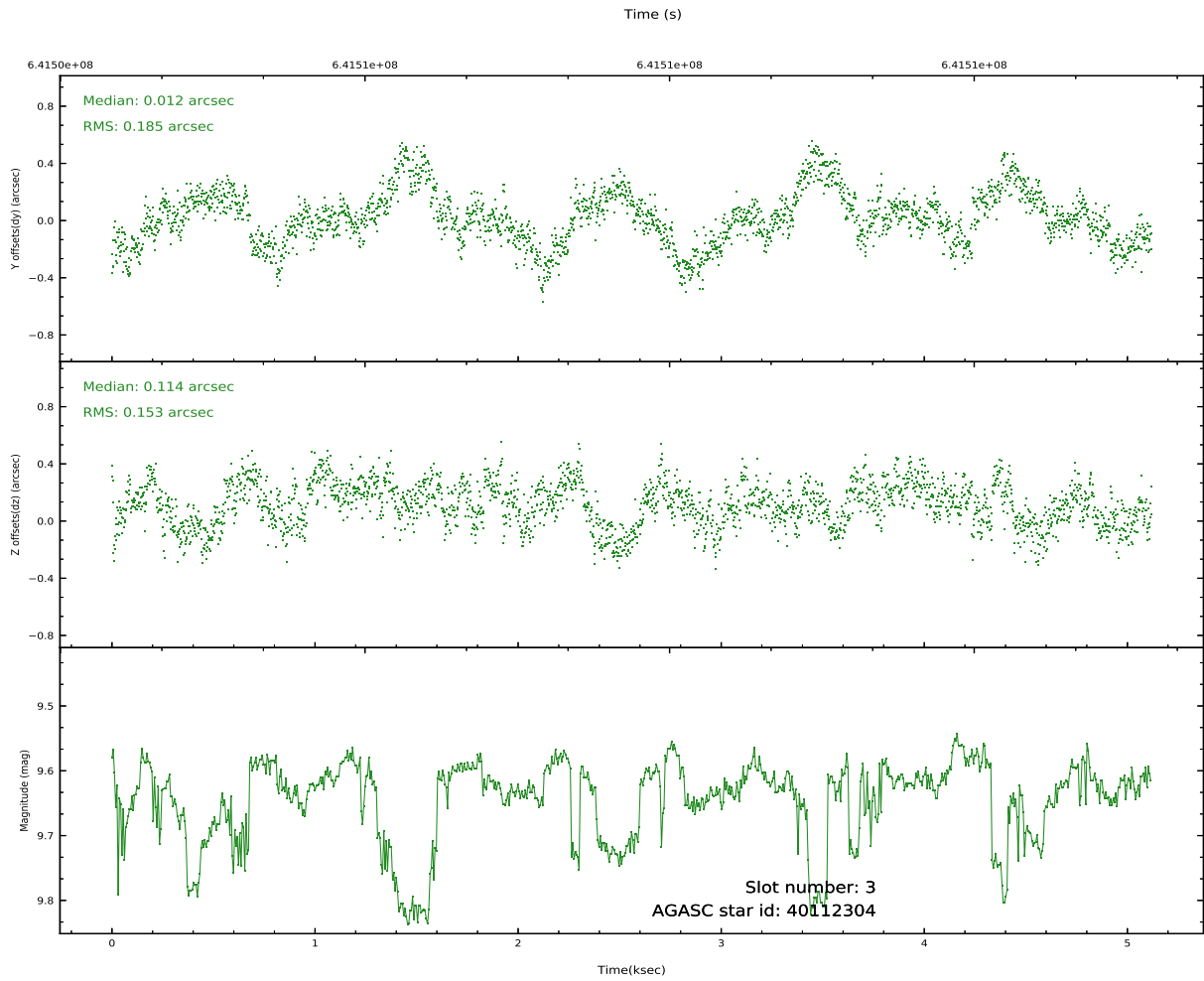
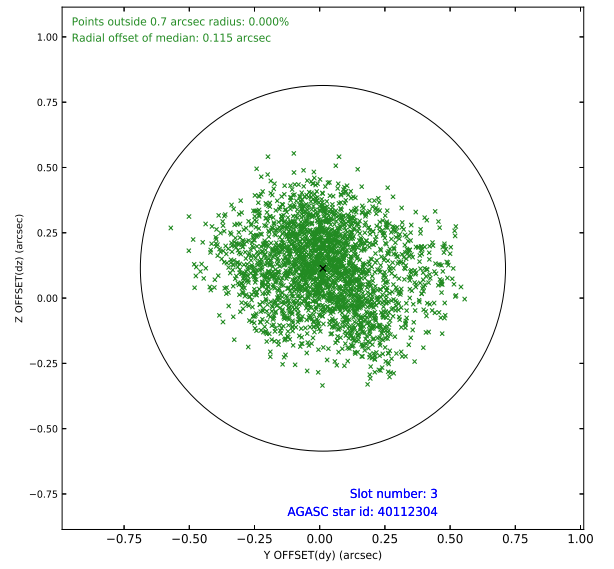
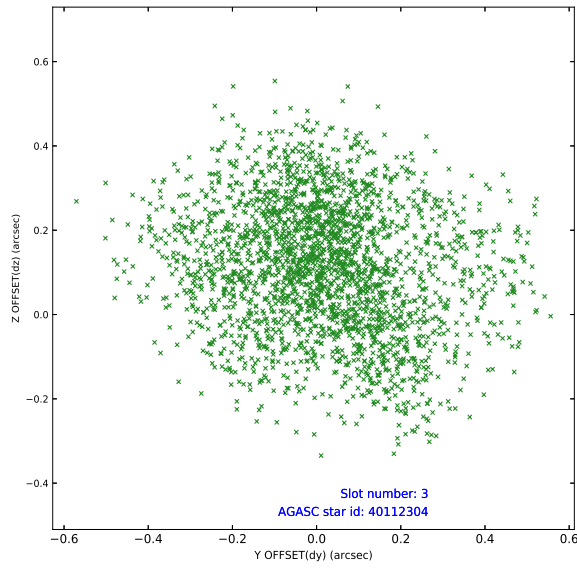


Slot Statistics

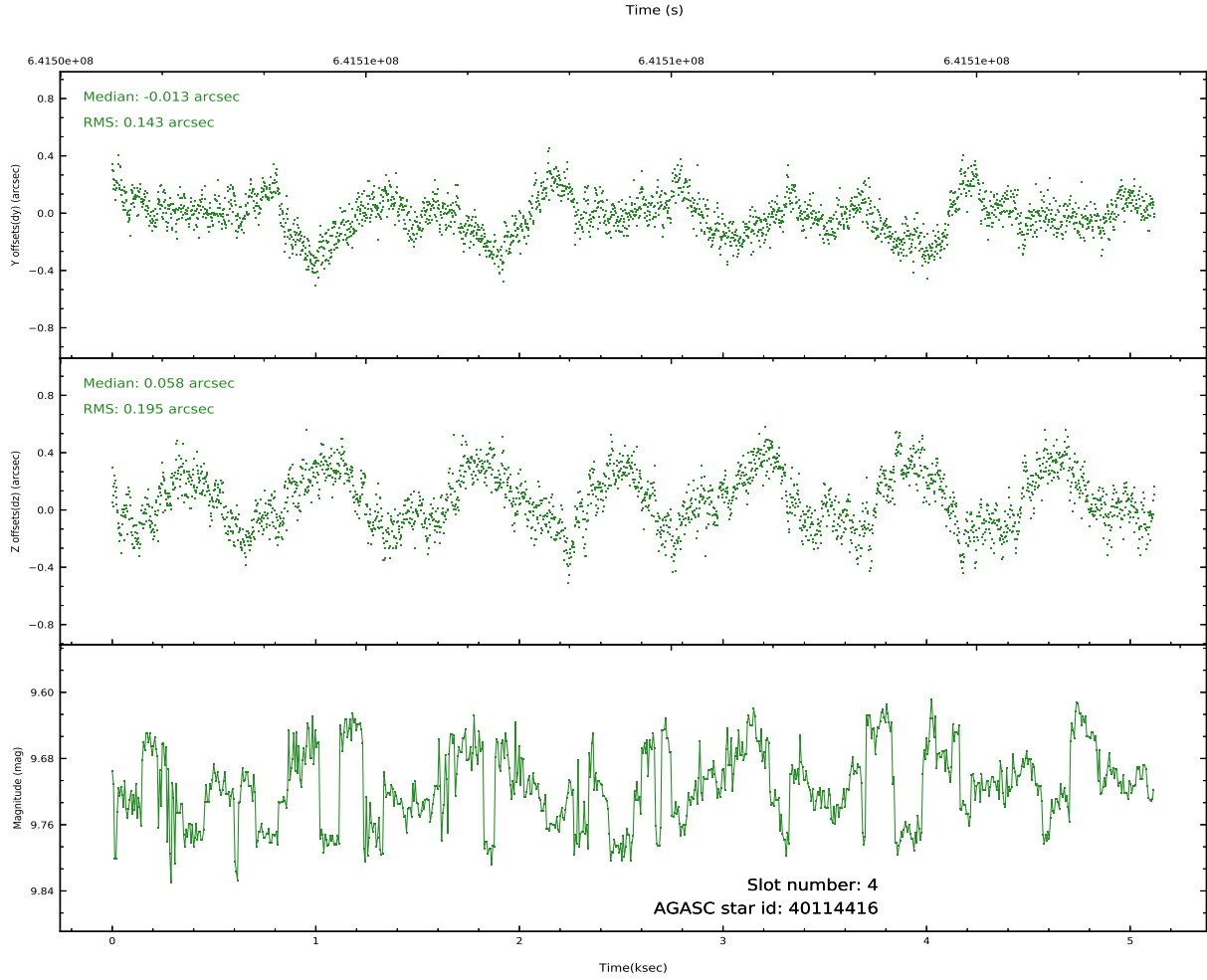
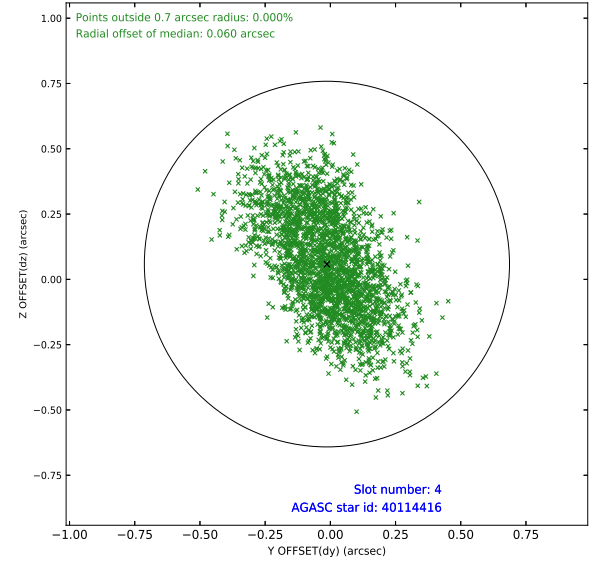
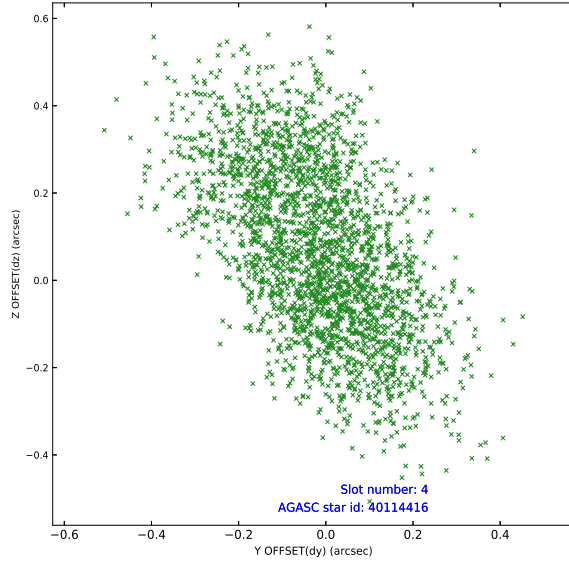
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-4	7.15	1249	1.000	0.166	0.022	0.006	0.010	0.000000	0.000000	2140.41	163
1	FID		ACIS-S-5	7.15	1249	1.000	-0.138	0.034	0.005	0.010	0.000000	0.000000	-1824.57	158
2	FID		ACIS-S-6	7.30	1249	1.000	-0.058	-0.042	0.007	0.011	0.000000	0.000000	387.29	801
3	GUIDE	used	40112304	9.63	2493	1.000	0.012	0.114	0.262	0.417	202.225576	7.441058	-1644.25	2032
4	GUIDE	used	40114416	9.72	2496	1.000	-0.013	0.058	0.262	0.420	201.610541	7.400035	393.88	1205
5	GUIDE	used	116791744	10.31	2474	1.000	0.146	-0.161	0.342	0.648	201.164615	7.930997	986.72	-1209
6	GUIDE	used	116791824	9.15	2494	1.000	0.028	-0.044	0.152	0.257	201.287828	7.911044	623.42	-953
7	GUIDE	used	40113544	7.93	2497	1.000	-0.150	0.011	0.150	0.231	201.675538	7.453262	103.20	1133

2.4 Star Slots

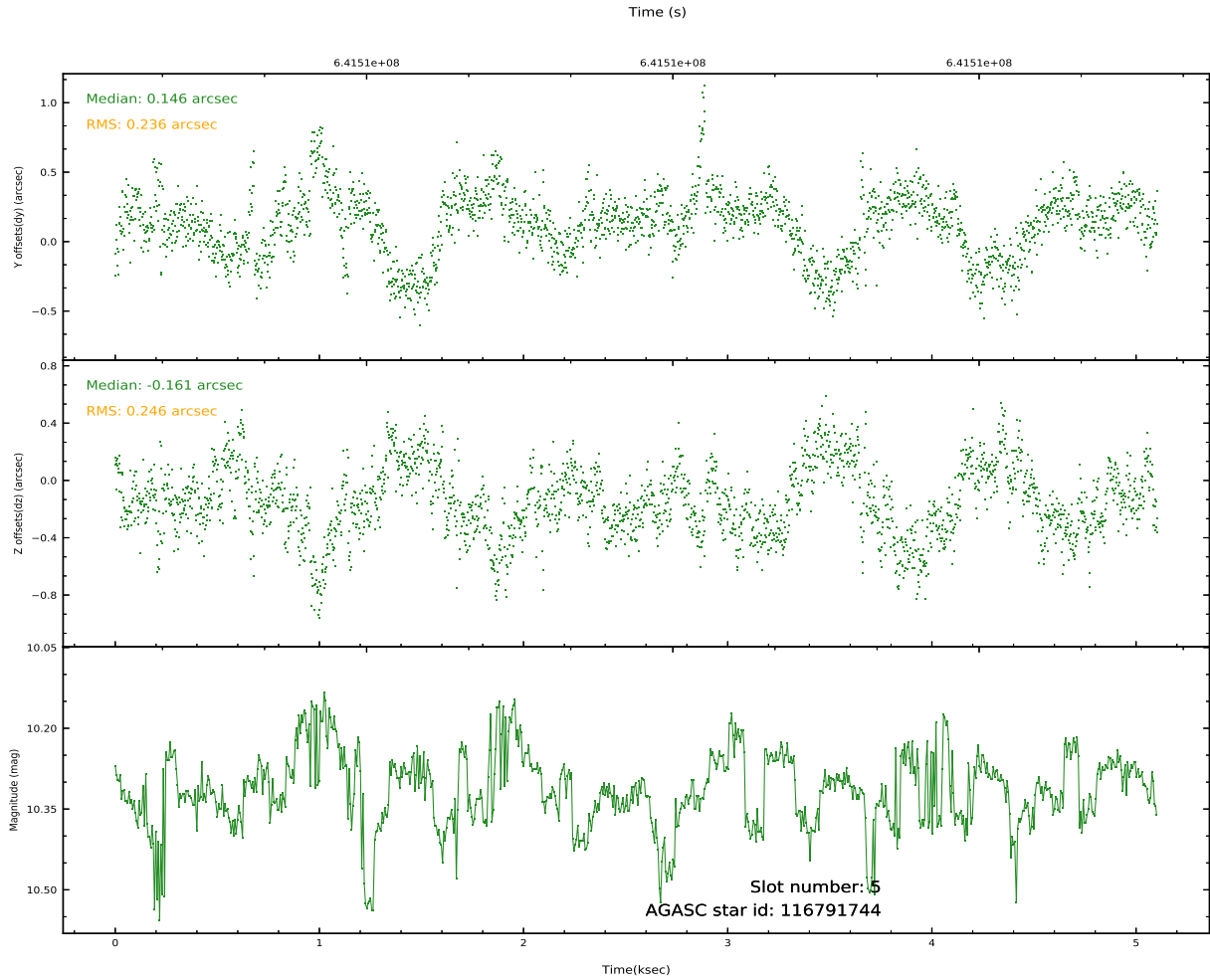
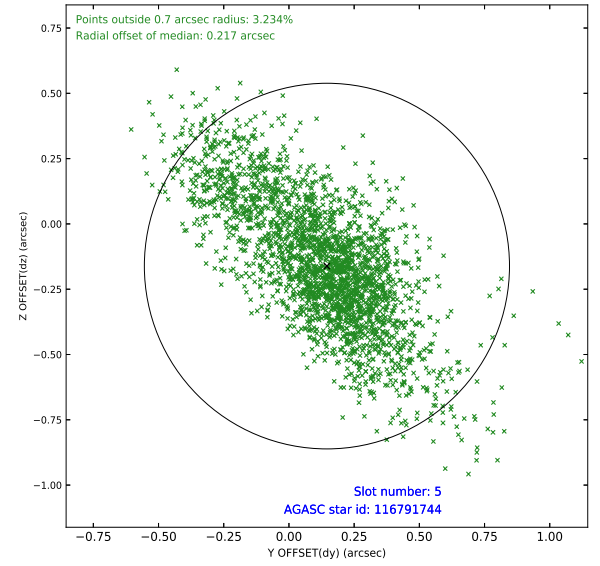
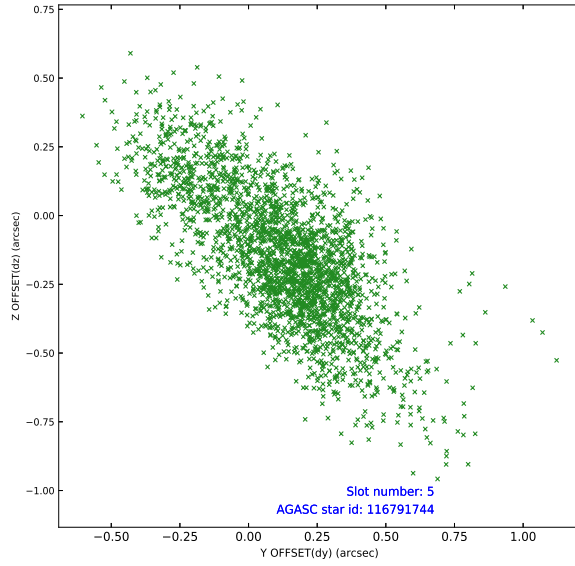
2.4.1 Slot 3



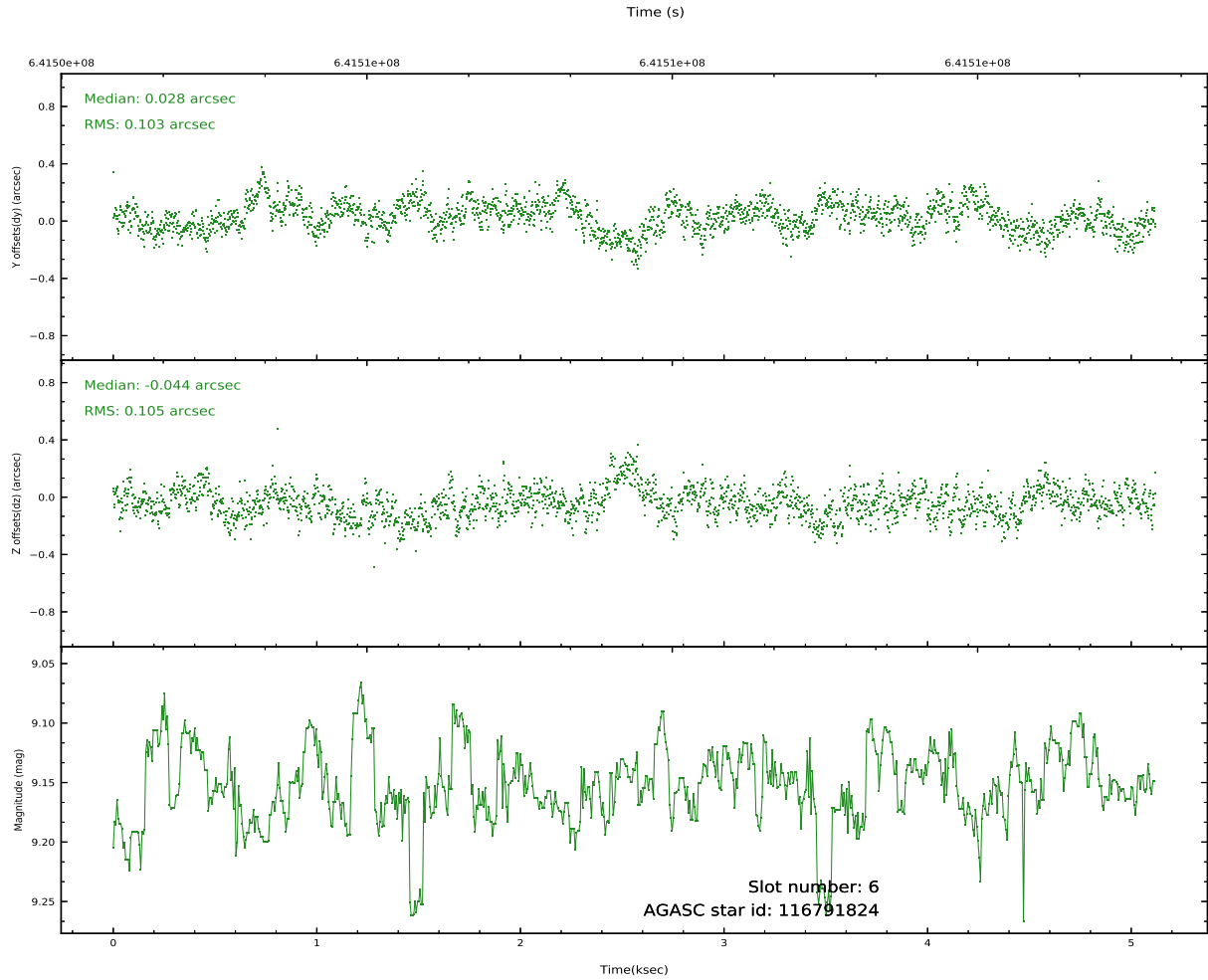
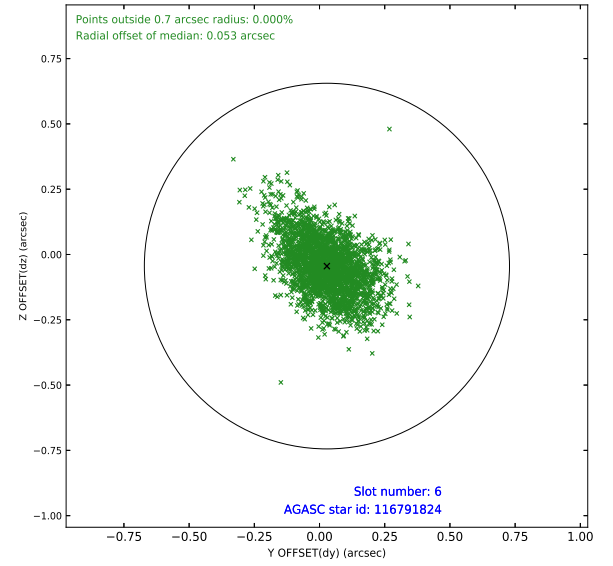
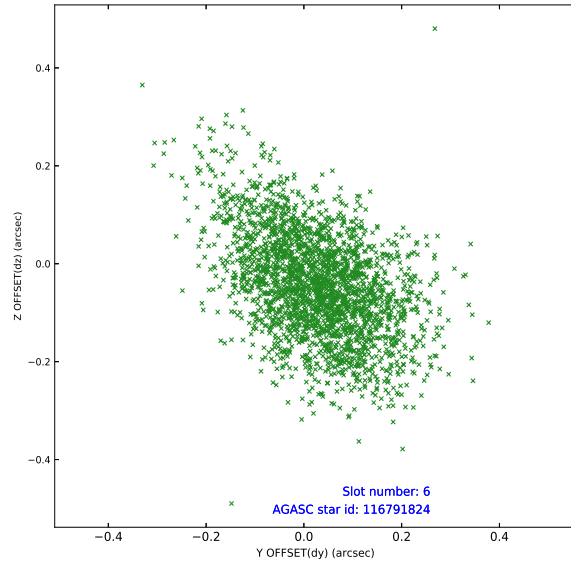
2.4.2 Slot 4



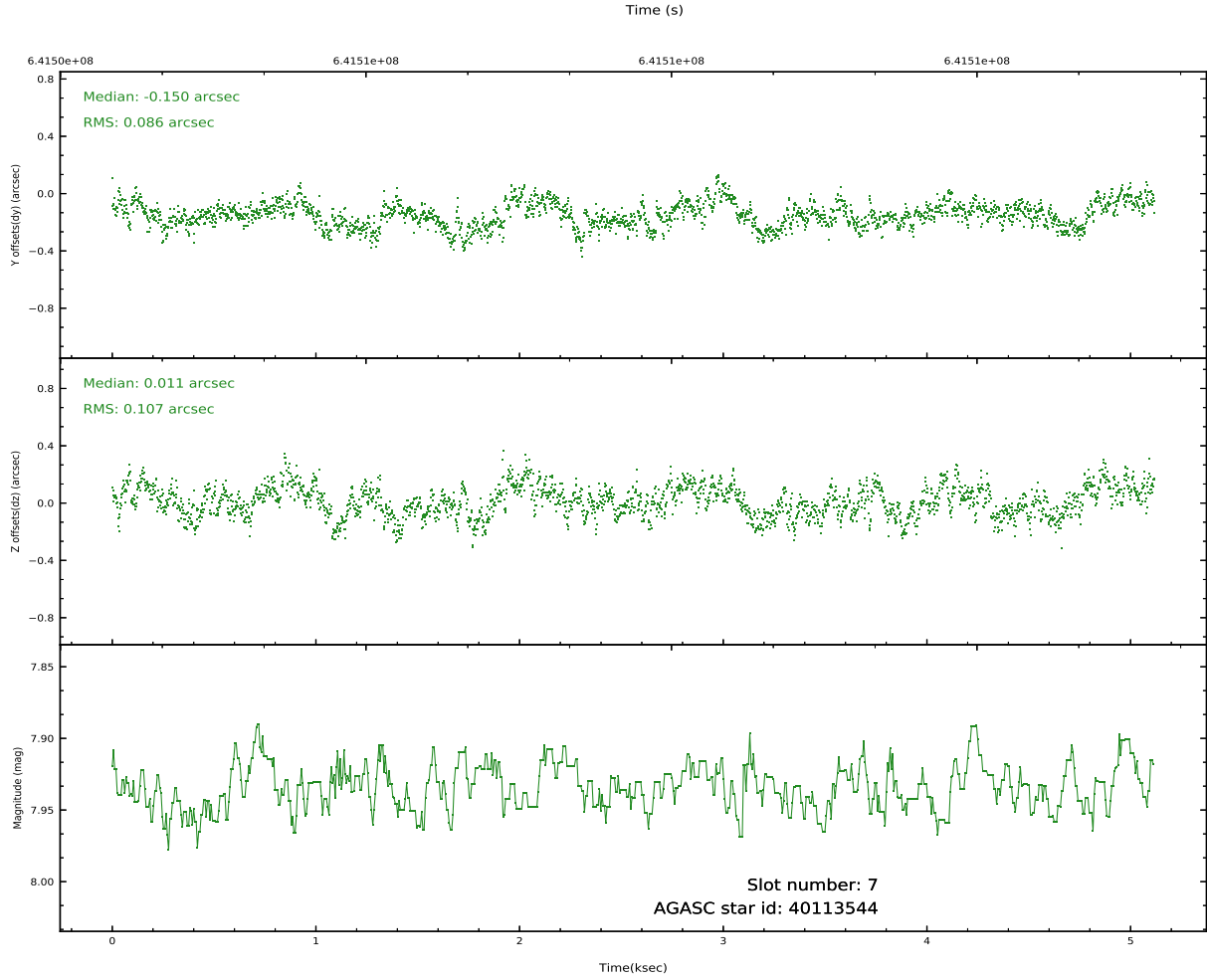
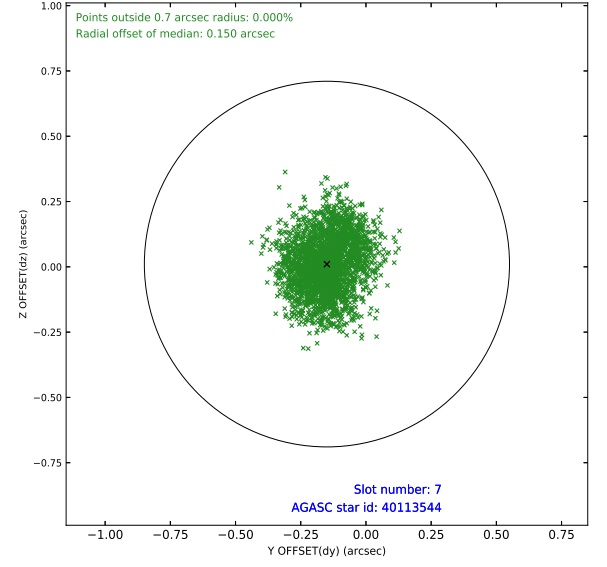
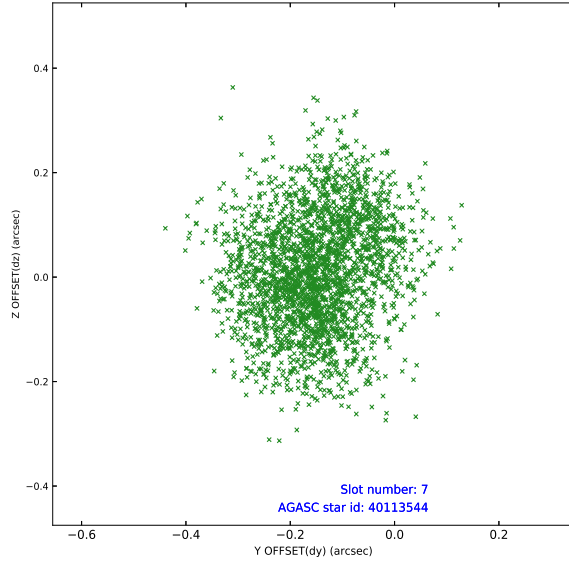
2.4.3 Slot 5



2.4.4 Slot 6

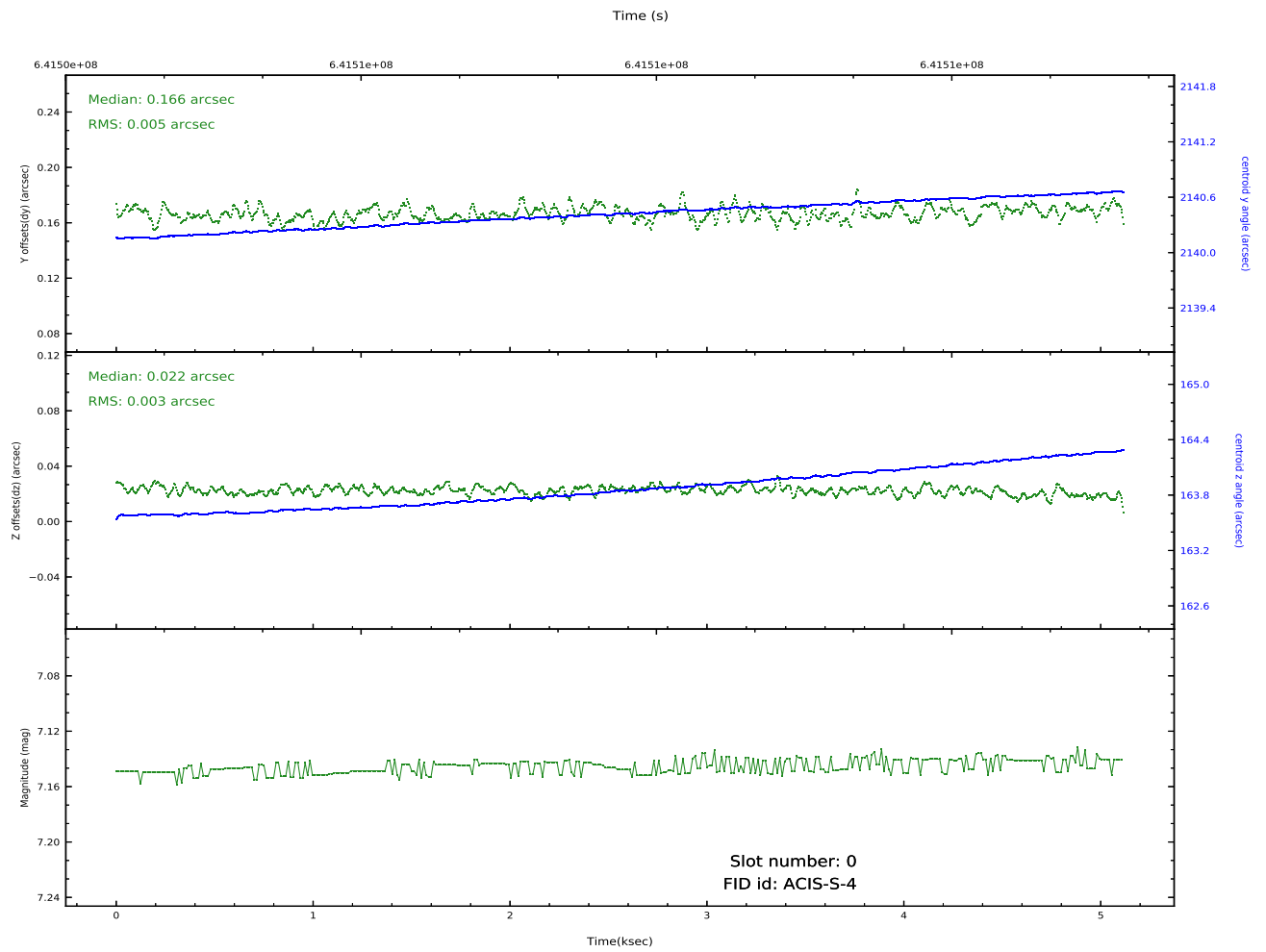
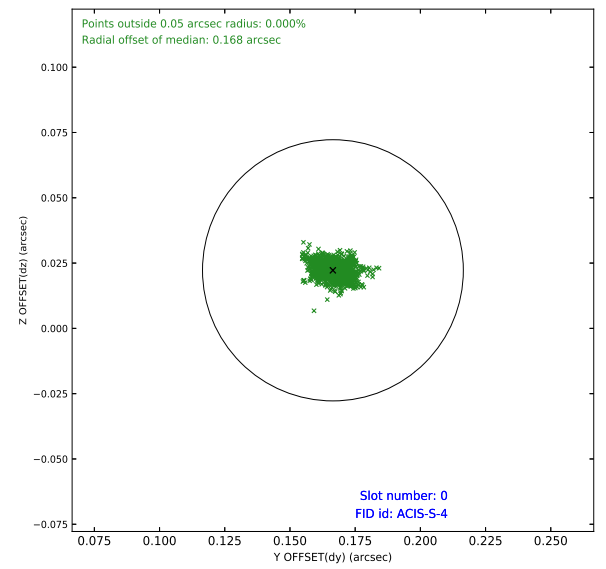
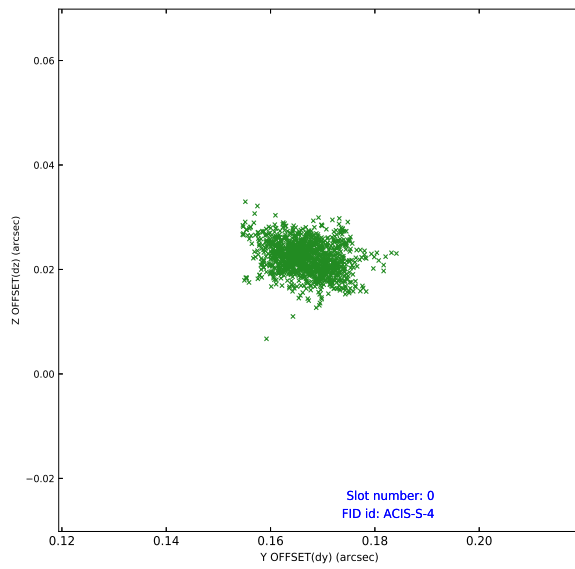


2.4.5 Slot 7

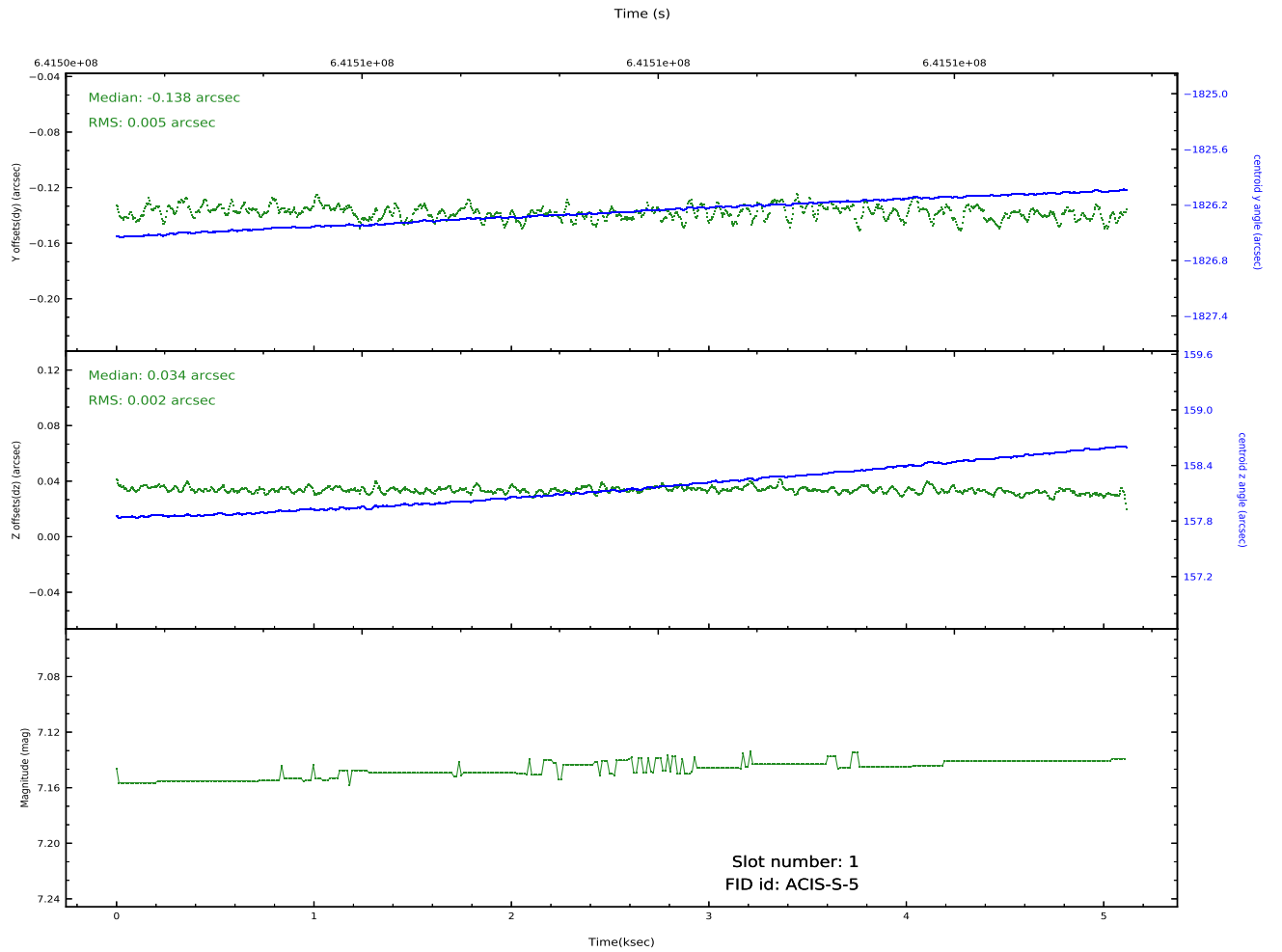
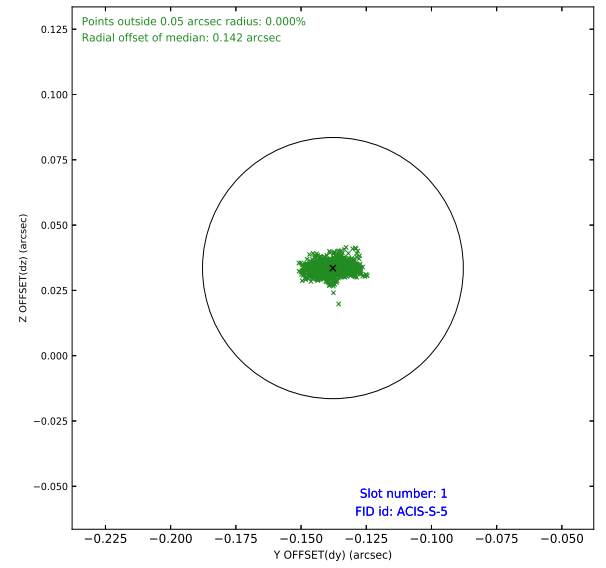
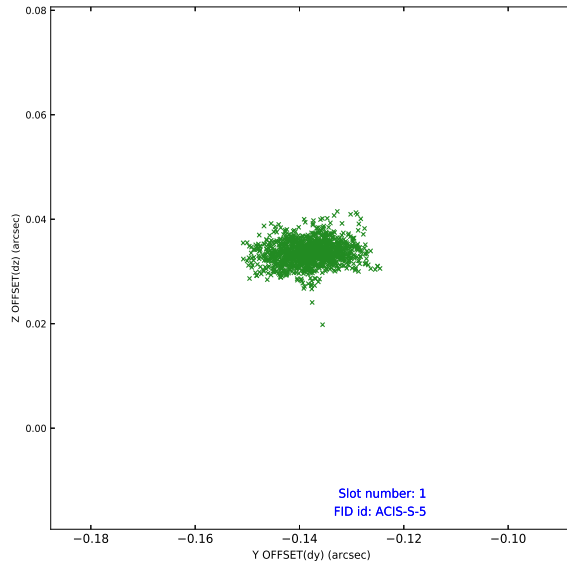


2.5 FID Slots

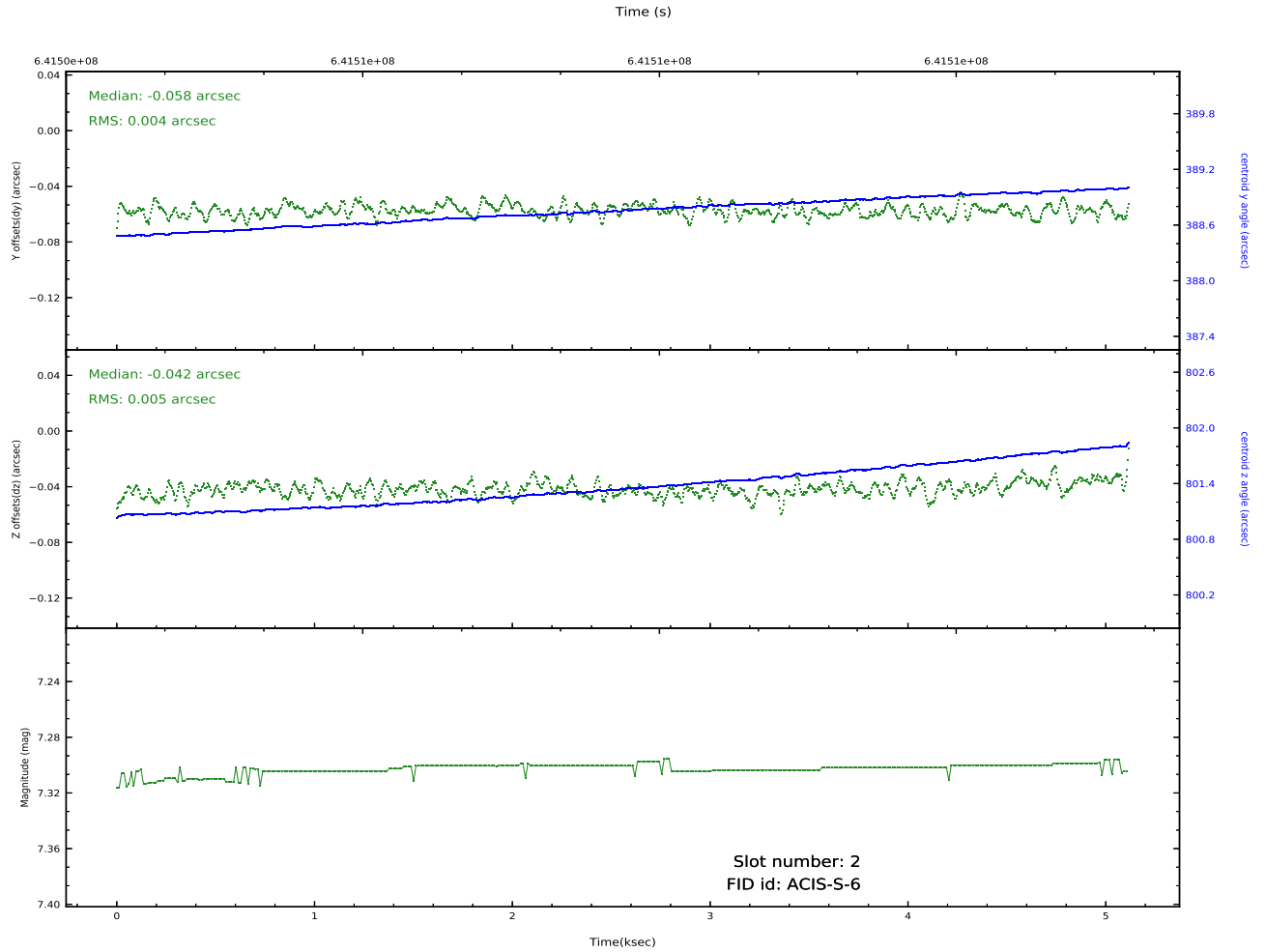
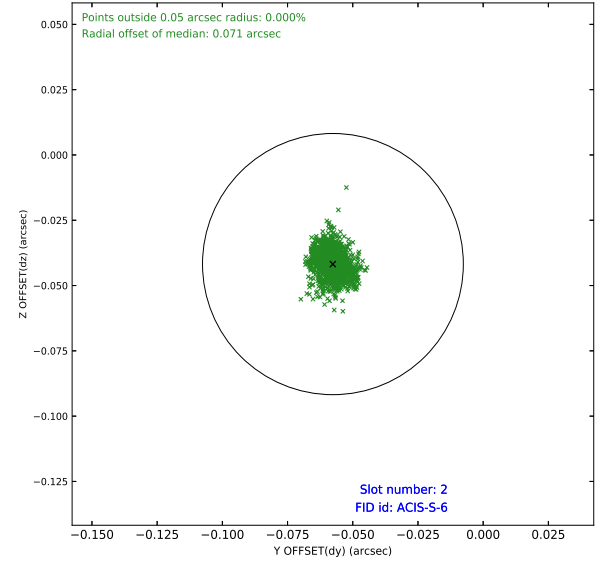
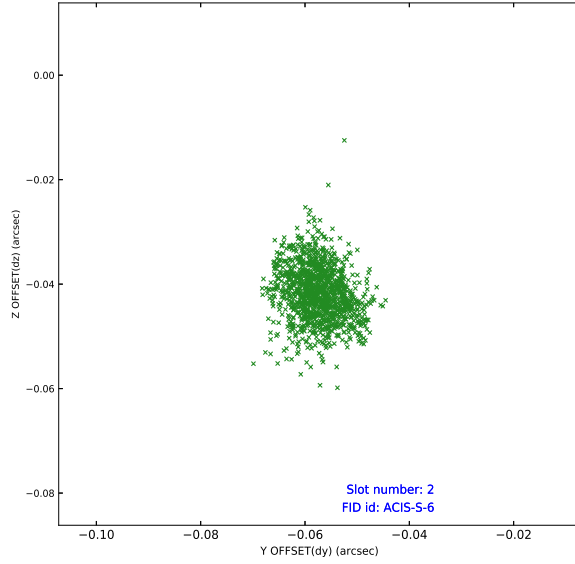
2.5.1 Slot 0



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)	2020.10.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.9536000738144

A.2 Comments