

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 21056 - L2 Version 3
Chandra X-Ray Center

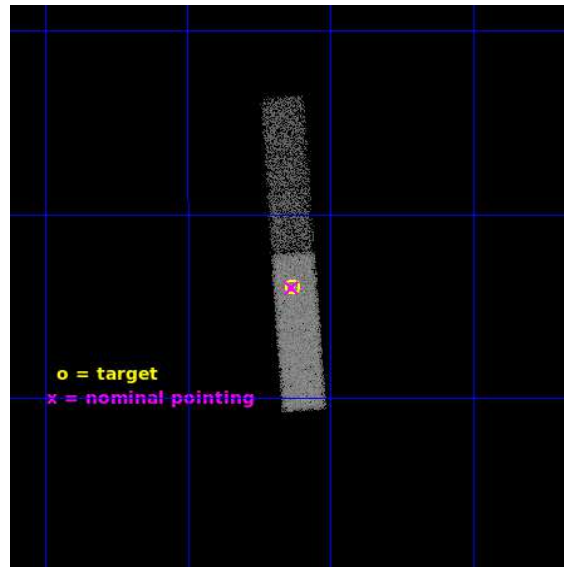
L2 Processing Date : Oct 25 2020

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 7	12
2.5	FID Slots	13
2.5.1	Slot 0	13
2.5.2	Slot 1	14
2.5.3	Slot 2	15
A	Summary	16
A.1	Status	16
A.2	Comments	16

1 Front

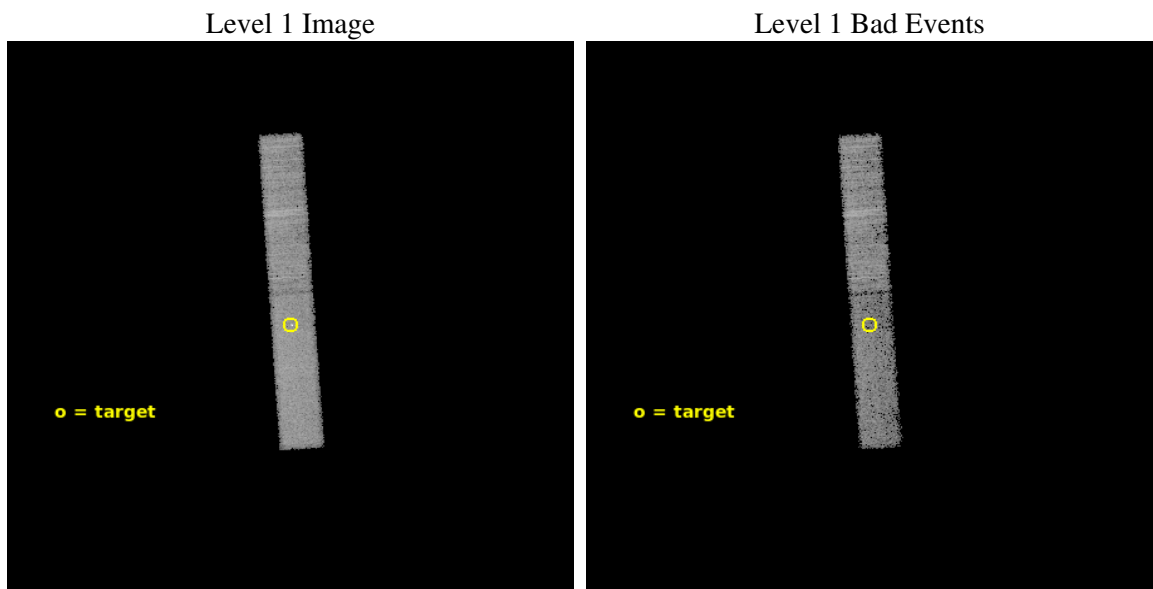
seq_num	703550	Sequence number
obs_id	21056	Observation id
title	The X-ray-radio morphology anomaly in a high-redshift quasar jet	P
observer	Diana Worrall	Principal investigator
object	J1421-0643	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	215.2825	Observer's specified target RA [deg]
dec_targ	-6.732306	Observer's specified target Dec [deg]
ra_nom	215.28362152622	Nominal RA [deg]
dec_nom	-6.7331024911381	Nominal Dec [deg]
roll_nom	86.157187624777	Nominal Roll [deg]
revision	3	Processing version of data
ontime	19404.628010154	Sum of GTIs [s]
livetime	18558.366497852	Livetime [s]
ontime6	19404.58697021	Sum of GTIs [s]
ontime7	19404.628010154	Sum of GTIs [s]
l2events	26326	Number of level 2 events



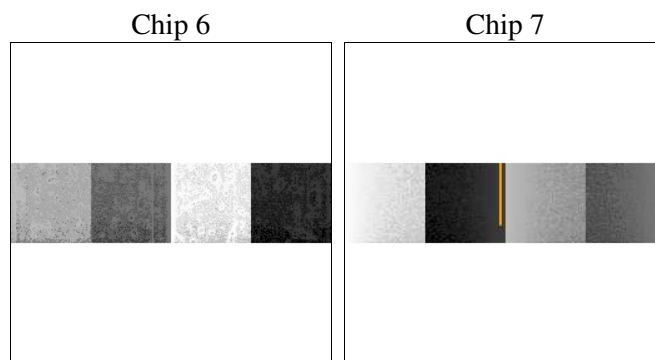
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	19300.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	19404.628010154	Sum of GTIs [s]
caldsver	4.9.3	 	ontime6	19404.58697021	Sum of GTIs [s]
date	2020-10-25T10:48:13	Date and time of file creation	ontime7	19404.628010154	Sum of GTIs [s]
revision	3	Processing version of data	l1events	88573	Number of level 1 events

2.1.4 Events

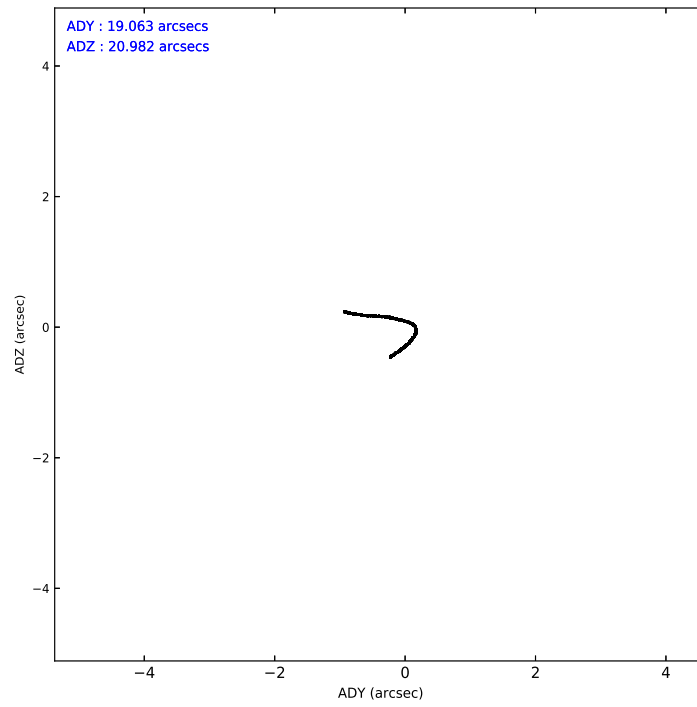
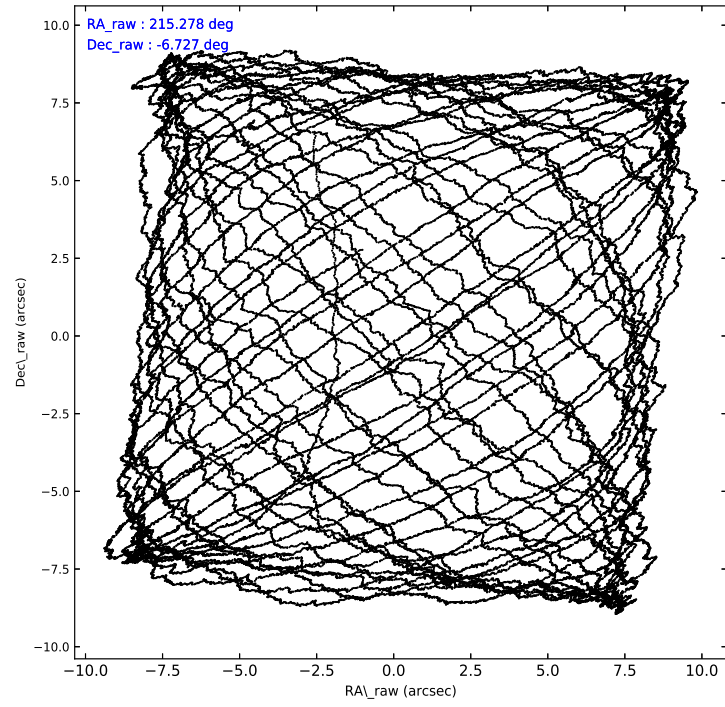
	ccd 6	ccd 7
level 1 events	41279	47294
rejected events	36396	24270
rejected %	88%	51%

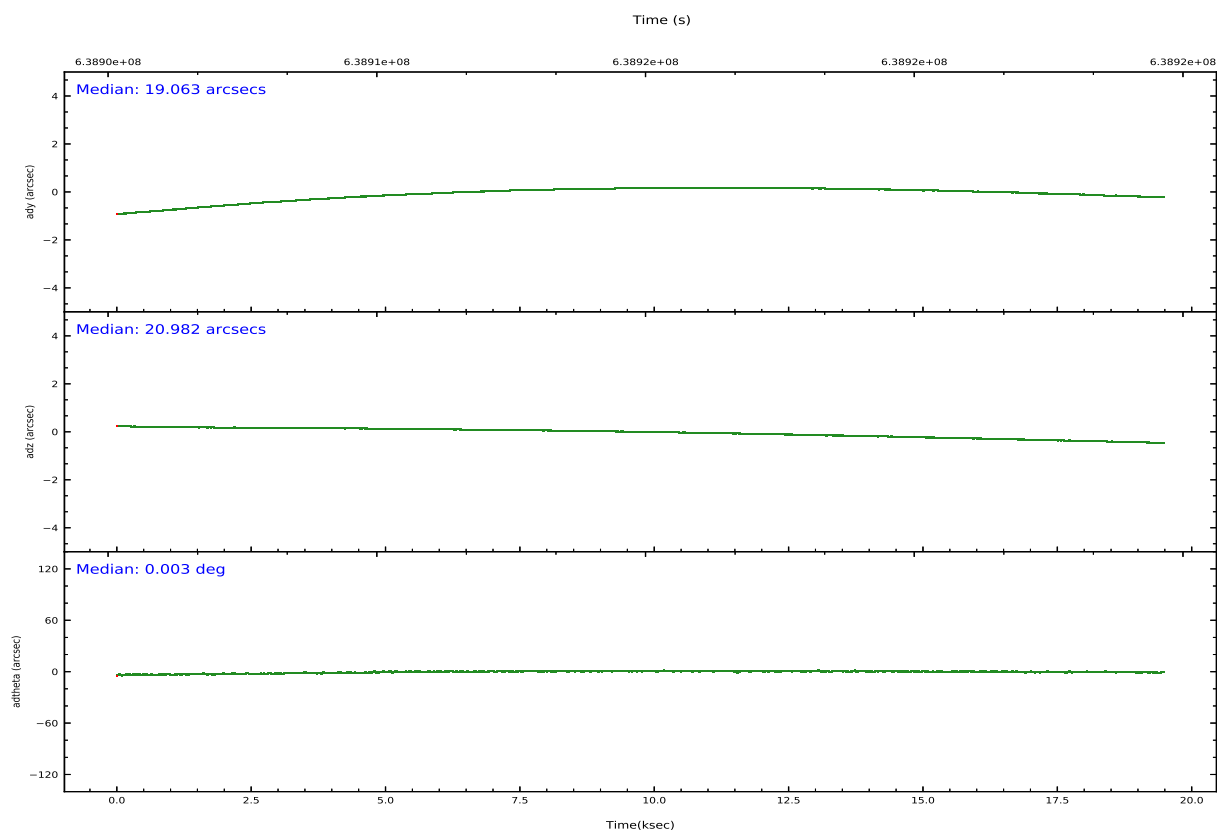
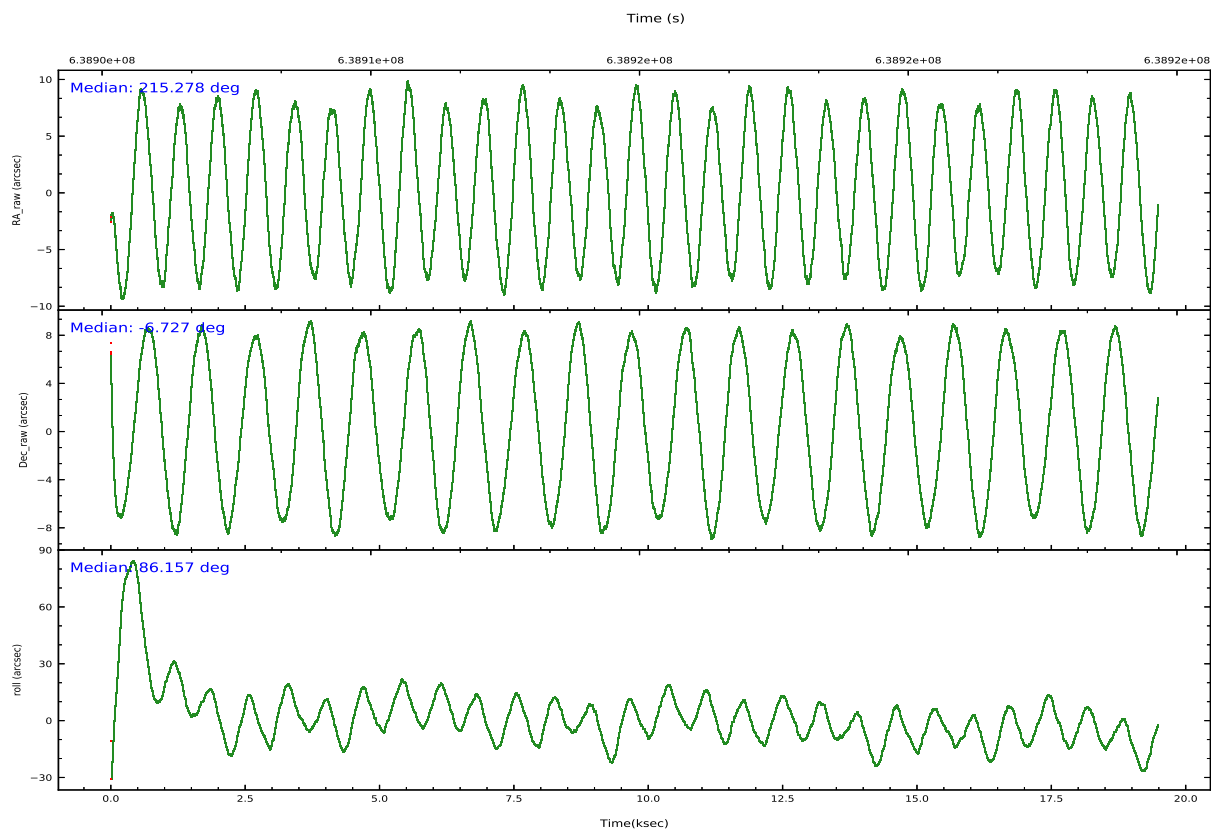
	ccd 6	ccd 7
grade 0 events	1426	2411
	3%	5%
grade 1 events	17	69
	0%	0%
grade 2 events	958	4820
	2%	10%
grade 3 events	717	2566
	1%	5%
grade 4 events	776	2475
	1%	5%
grade 5 events	1733	4889
	4%	10%
grade 6 events	1006	10752
	2%	22%
grade 7 events	34646	19312
	83%	40%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-67	ACIS-67	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	215.290502	215.28362152622	CCD I2 on	N	N
[deg] Pointing Dec	-6.751734	-6.7331024911381	CCD I3 on	N	N
[deg] Pointing Roll	86.000936	86.15718762477699	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	O1	Y
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	N	N
[s] Observation start time (MET)	638905349.184000	638904395.59623	CCD S5 on	N	N
Observation start date	2018-03-31T17:41:20	2018-03-31T17:26:35	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	638924649.184000	638925111.35996	On-chip summing requested	N	N
Observation end date	2018-03-31T23:03:00	2018-03-31T23:11:51	Subarray requested	CUSTOM	1/4
Read mode	TIMED	TIMED	Subarray start row	385	385
			Subarray row count	256	256
			Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	0.9

2.3 Aspect



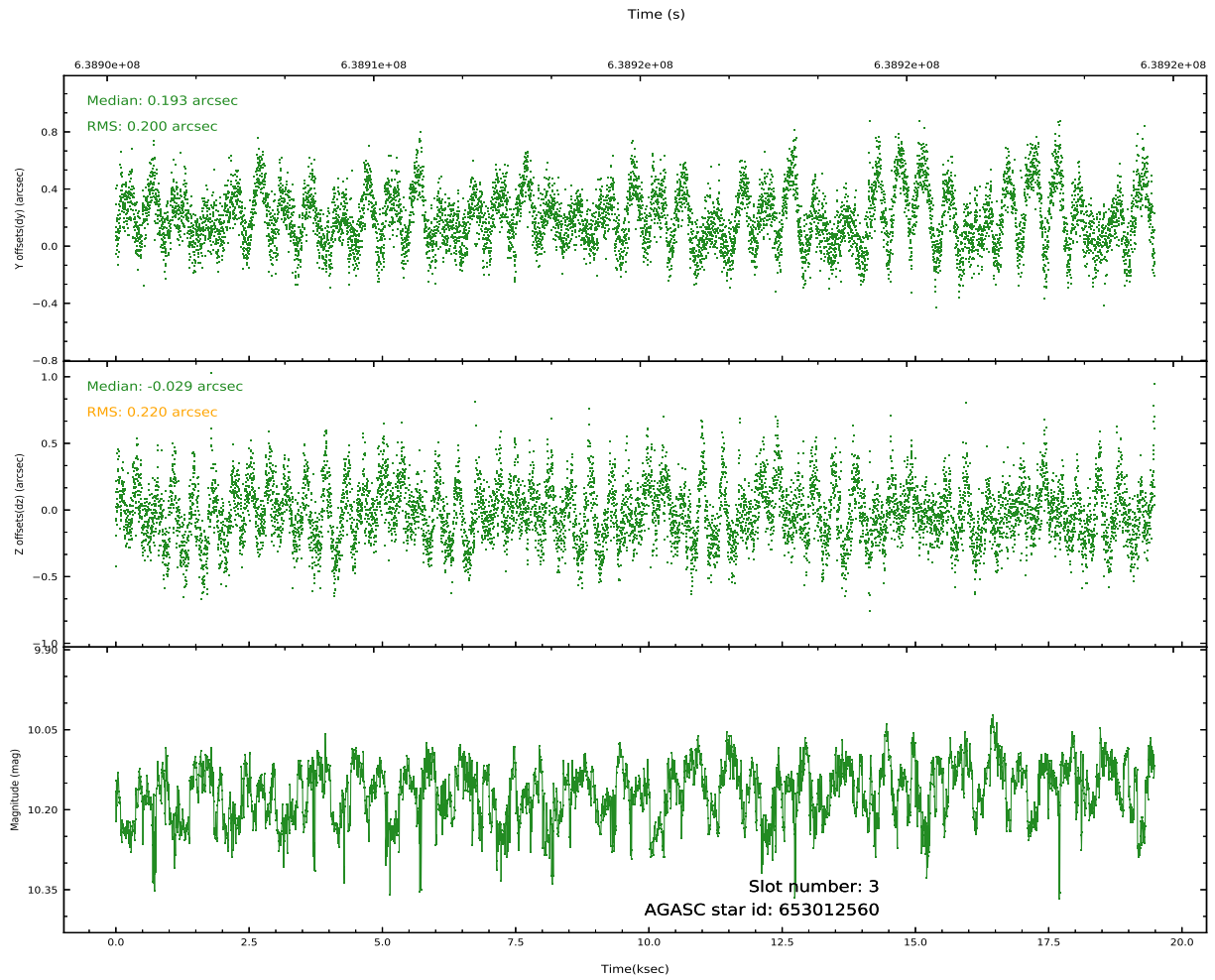
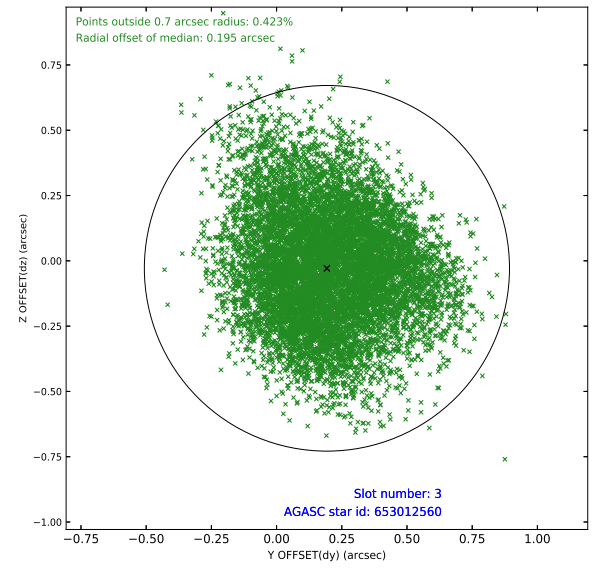
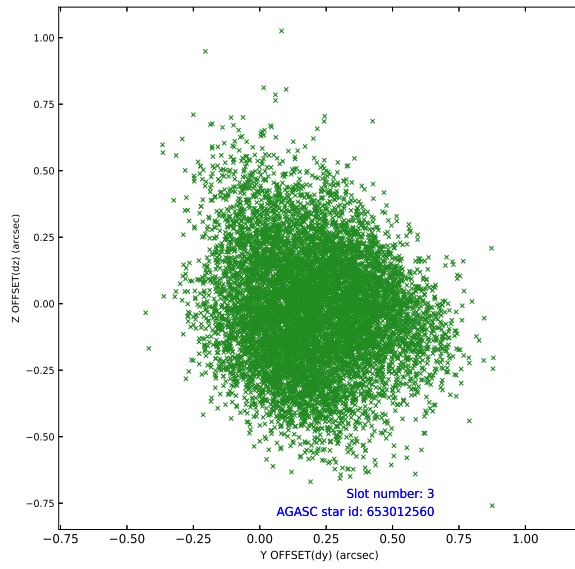


Slot Statistics

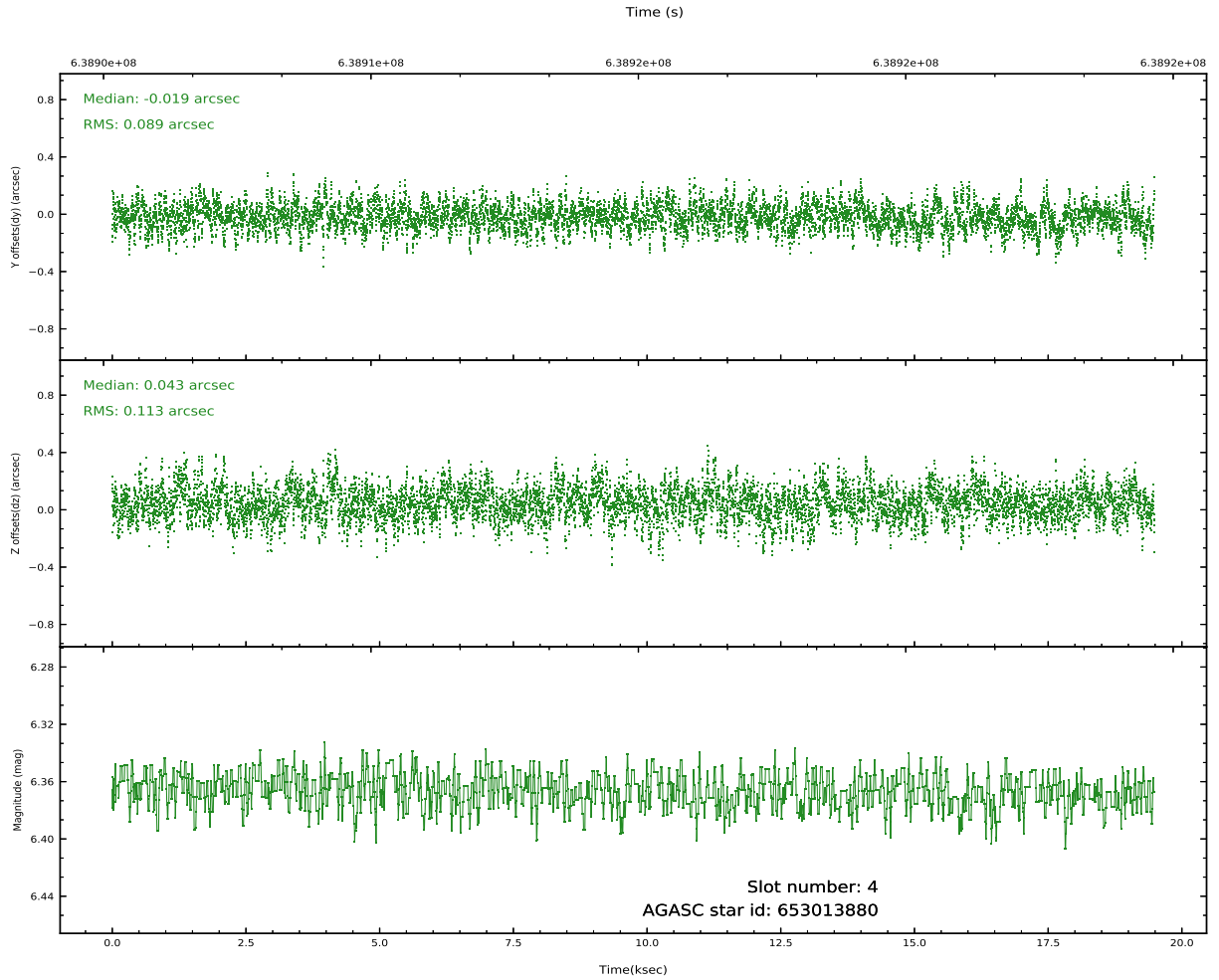
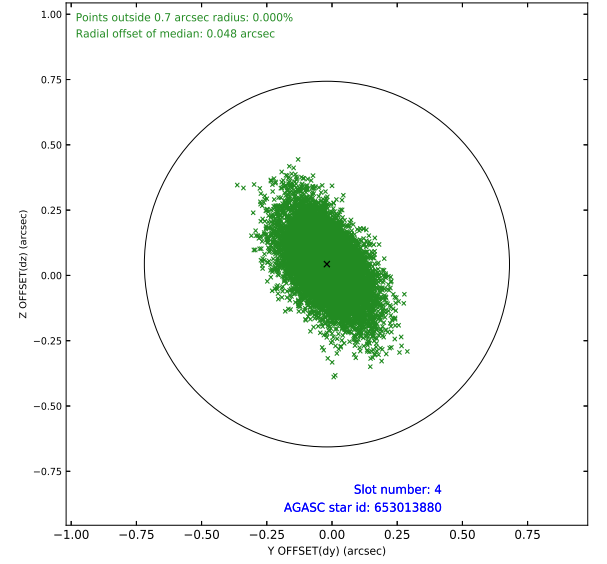
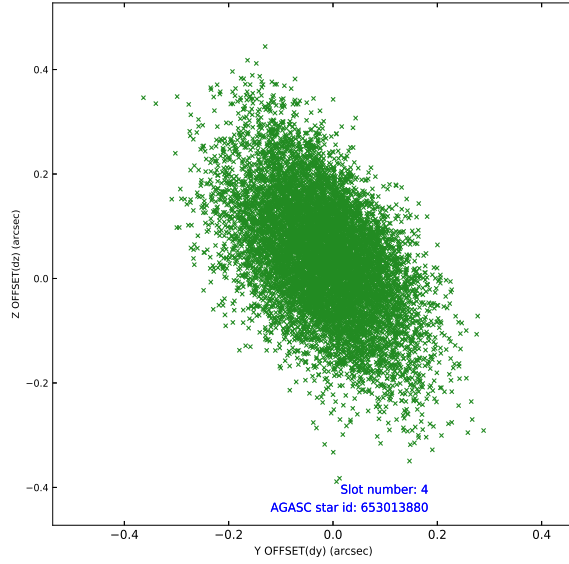
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.01	4754	1.000	0.102	-0.082	0.010	0.019	0.000000	0.000000	-772.17	-1742
1	FID		ACIS-S-4	7.11	4754	1.000	0.118	-0.027	0.011	0.025	0.000000	0.000000	2141.27	165
2	FID		ACIS-S-5	7.10	4754	1.000	-0.252	0.118	0.008	0.014	0.000000	0.000000	-1824.87	160
3	GUIDE	used	653012560	10.16	9457	1.000	0.193	-0.029	0.317	0.497	214.983808	-6.848787	-424.65	1069
4	GUIDE	used	653013880	6.37	9506	1.000	-0.019	0.043	0.147	0.261	214.971669	-6.746165	-60.18	1140
5	GUIDE	used	653013888	7.79	9500	1.000	-0.026	0.009	0.164	0.284	214.671610	-7.013692	-1096.42	2140
6	OMITTED			0.00	0	0.000	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0
7	GUIDE	used	653141776	9.27	9492	1.000	-0.153	-0.032	0.199	0.330	215.017653	-6.536026	706.47	1027

2.4 Star Slots

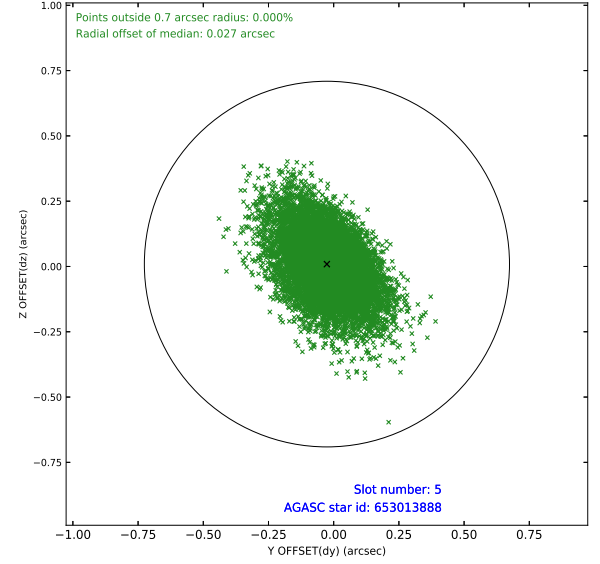
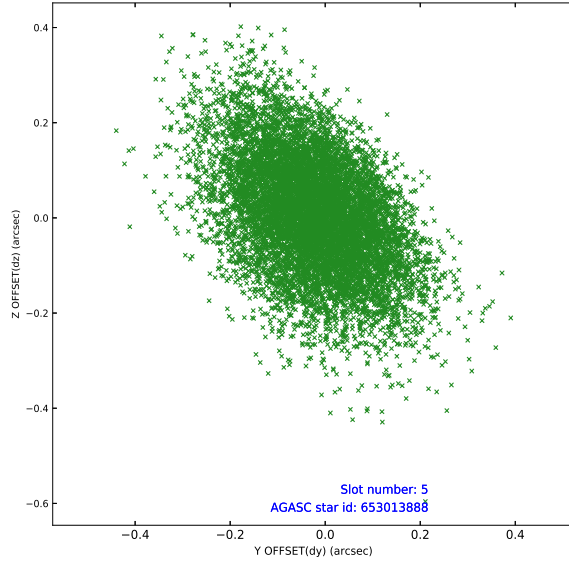
2.4.1 Slot 3



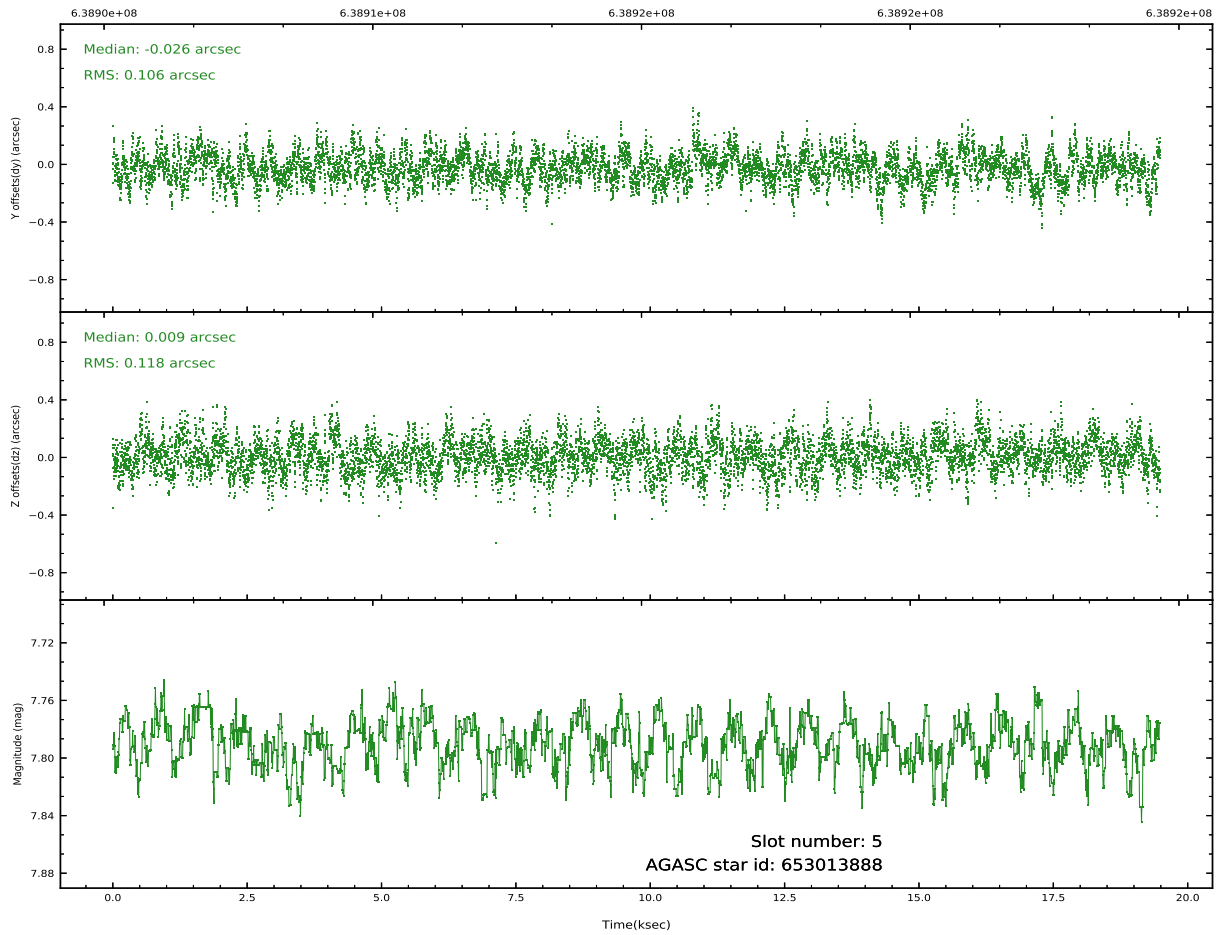
2.4.2 Slot 4



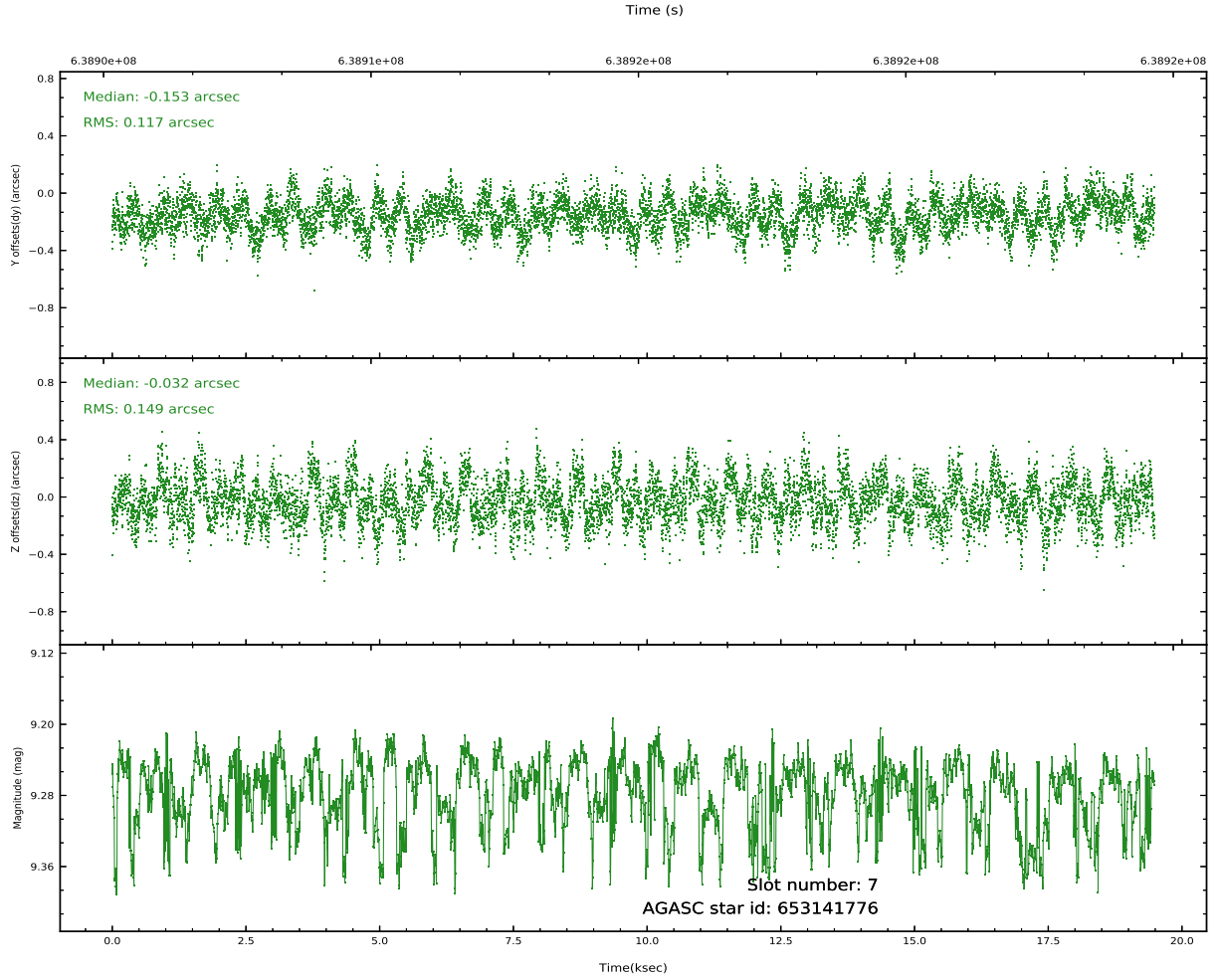
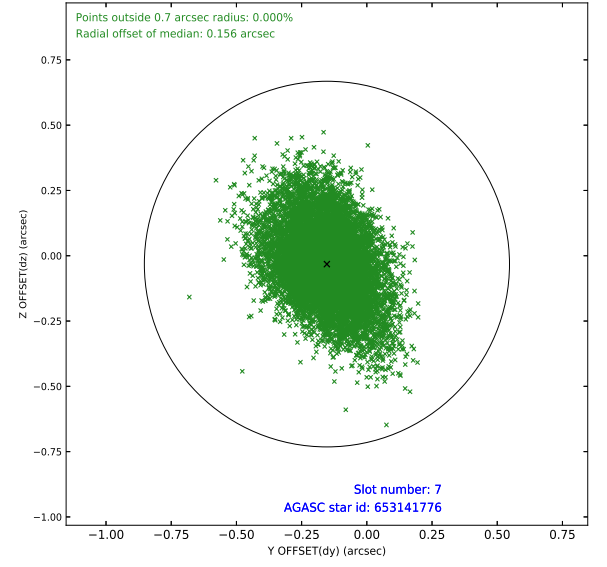
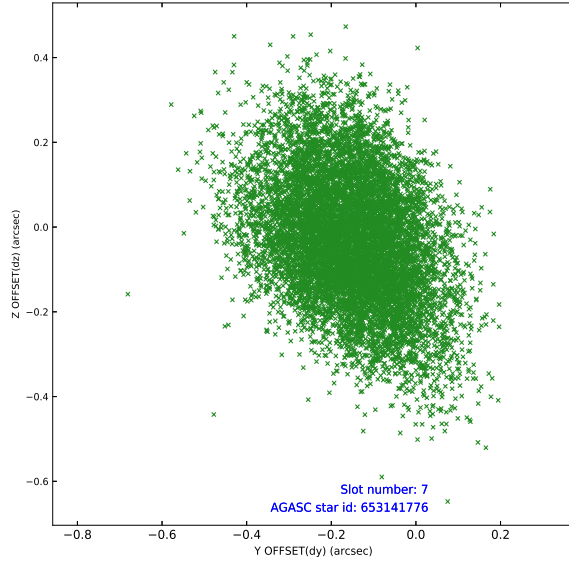
2.4.3 Slot 5



Time (s)

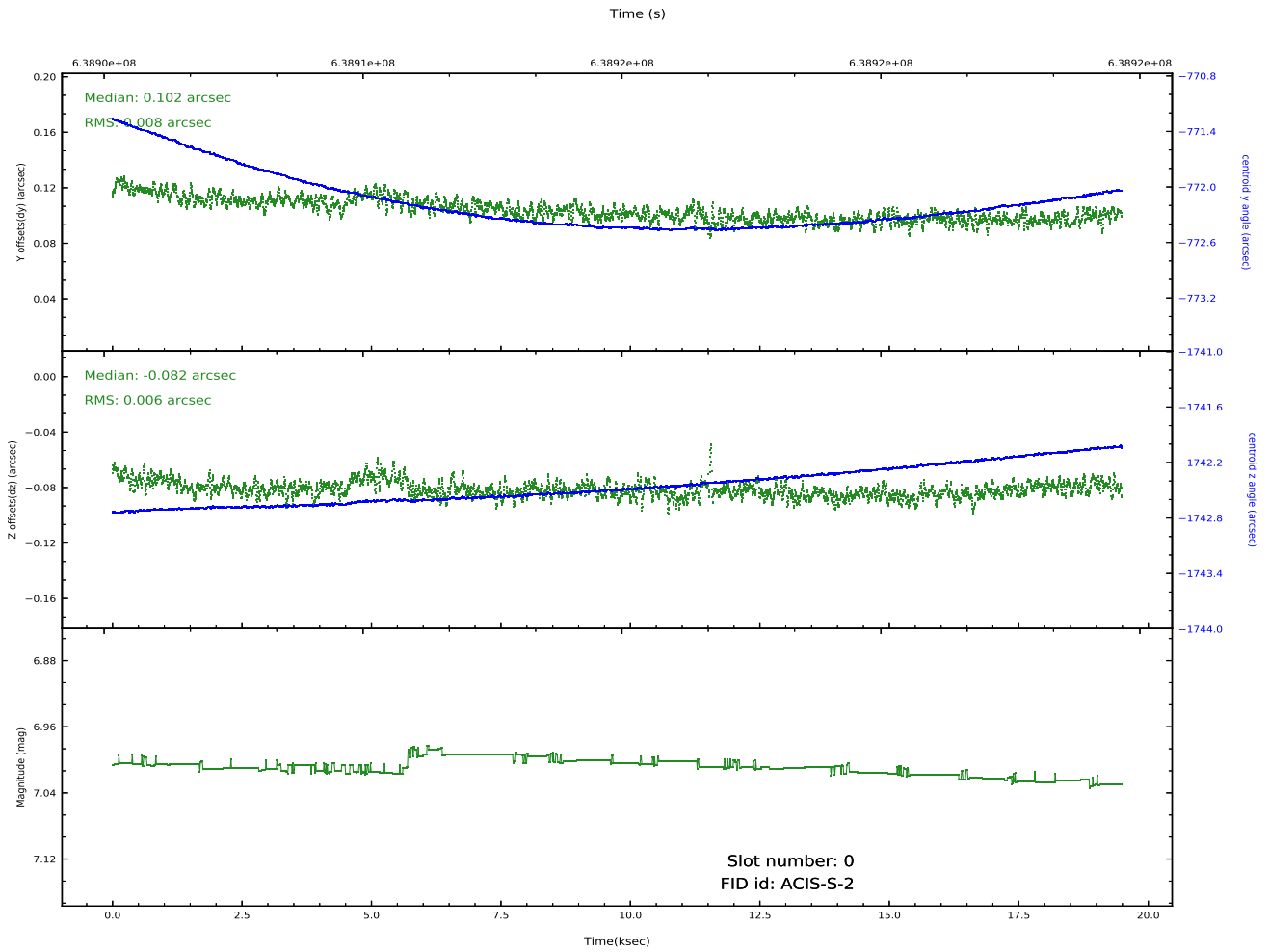
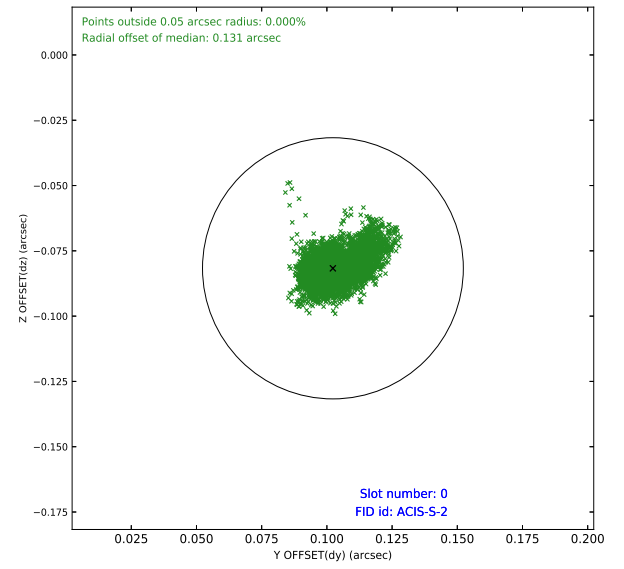
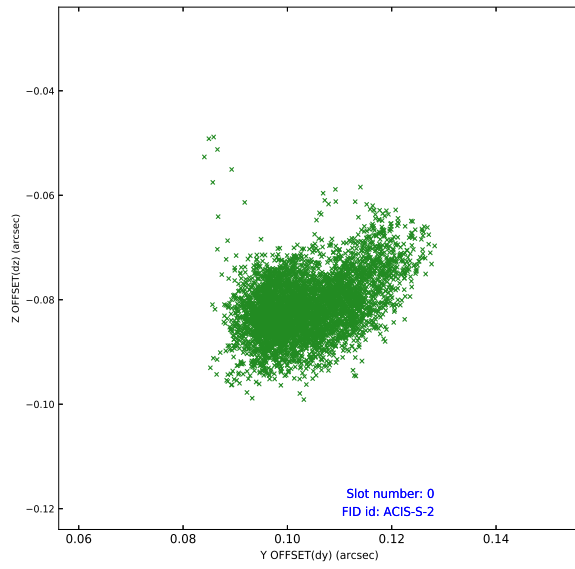


2.4.4 Slot 7

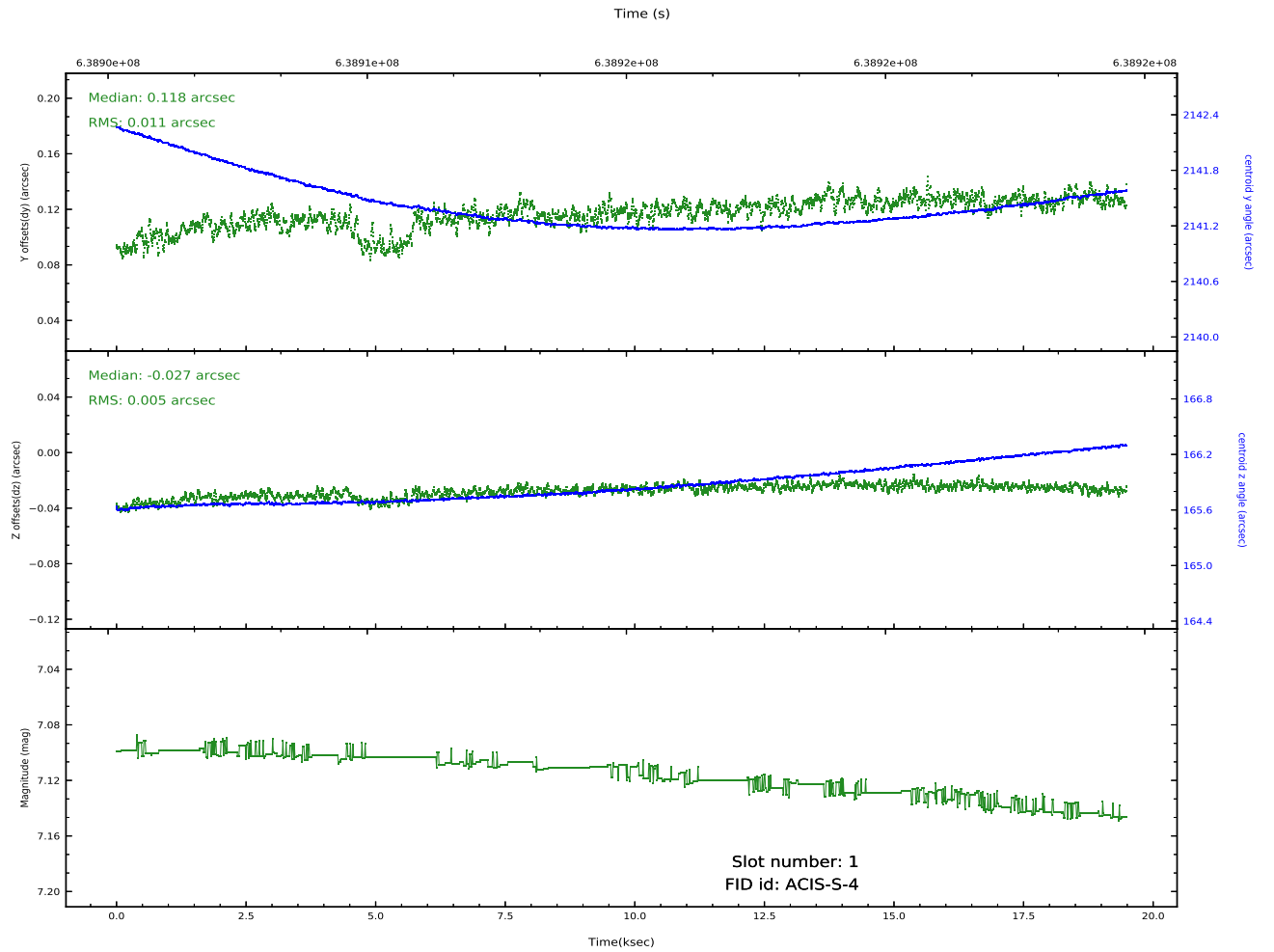
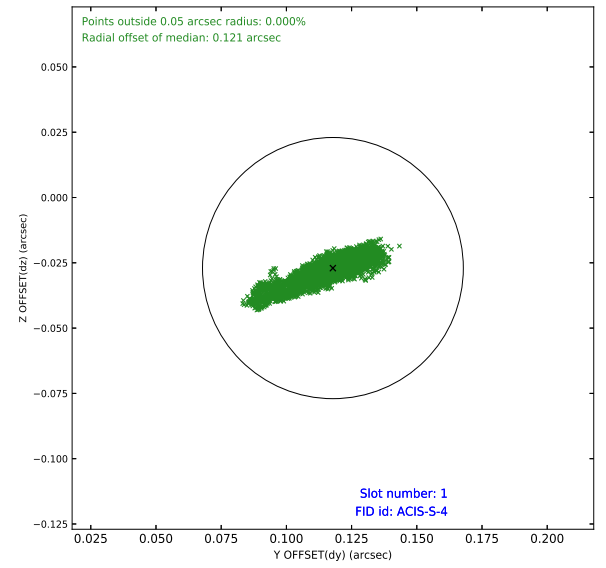
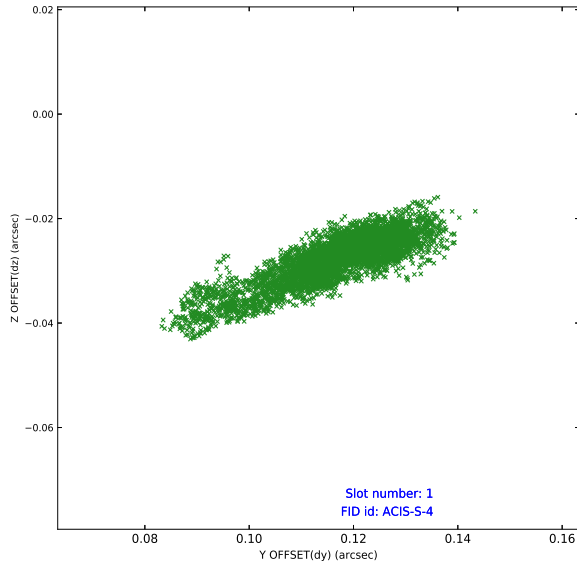


2.5 FID Slots

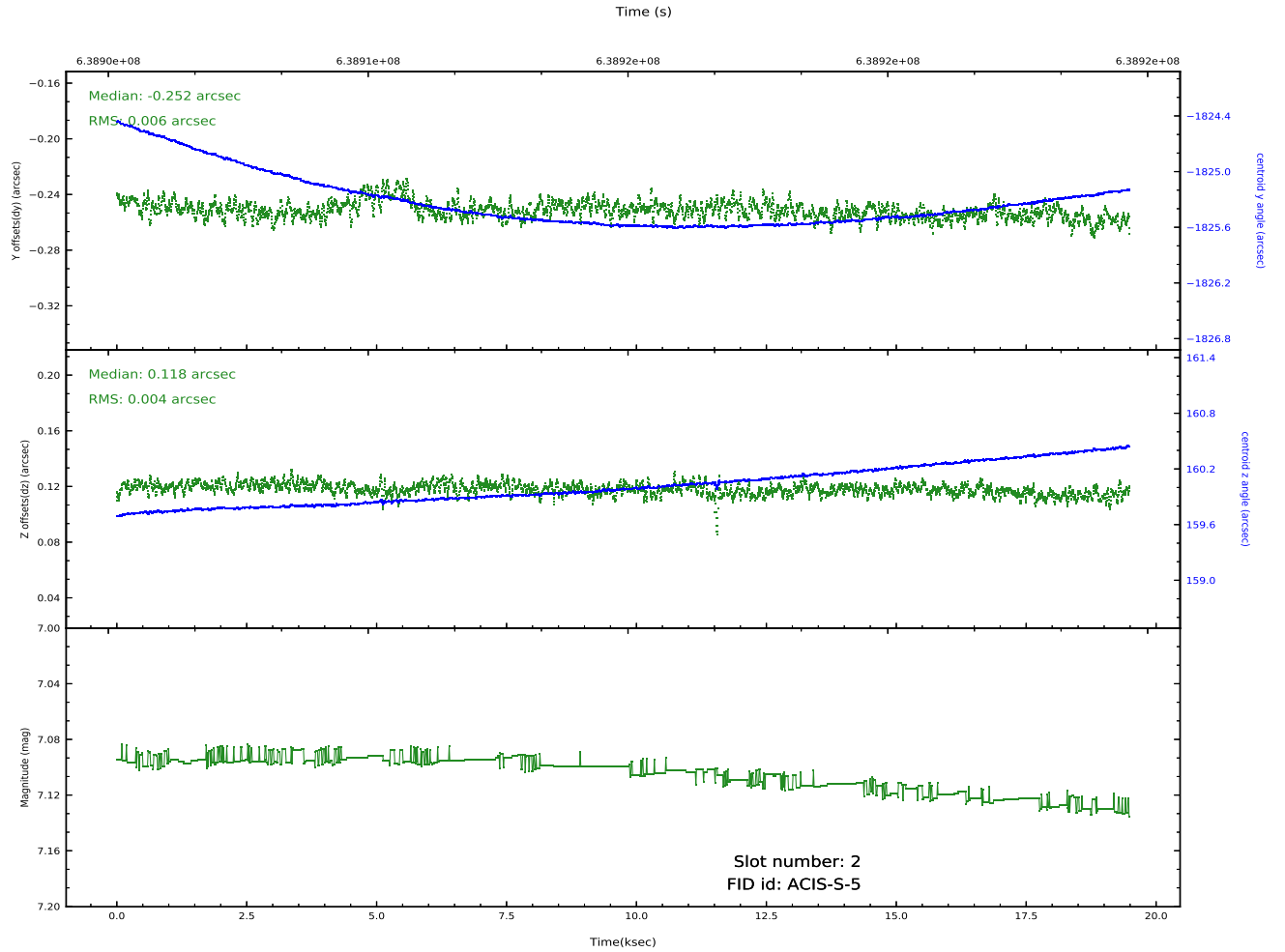
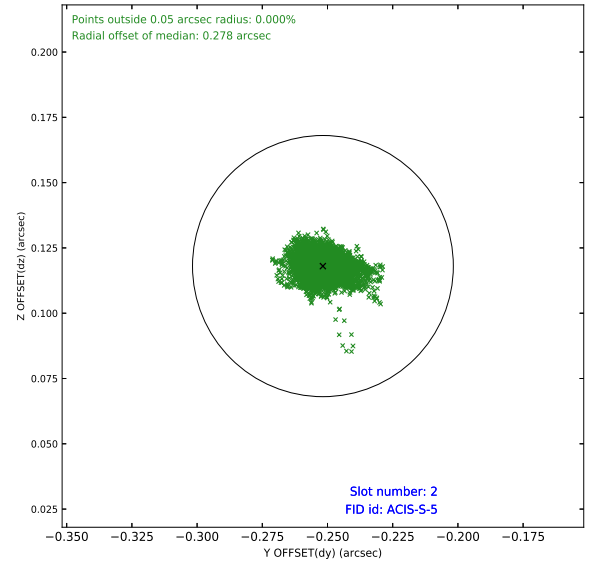
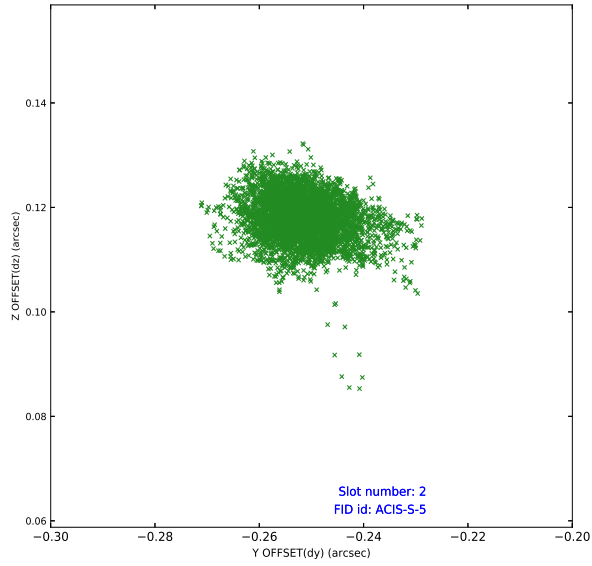
2.5.1 Slot 0



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)	2020.10.29
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	19.404628010035

A.2 Comments

Joint proposal with HST and NRAO.

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The guide star in slot 6 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this slot from the solution.