

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20961 - L2 Version 2
Chandra X-Ray Center

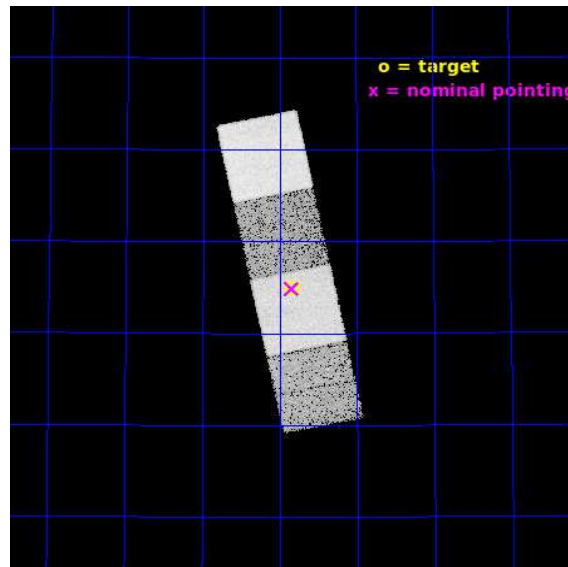
L2 Processing Date : Oct 24 2020

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

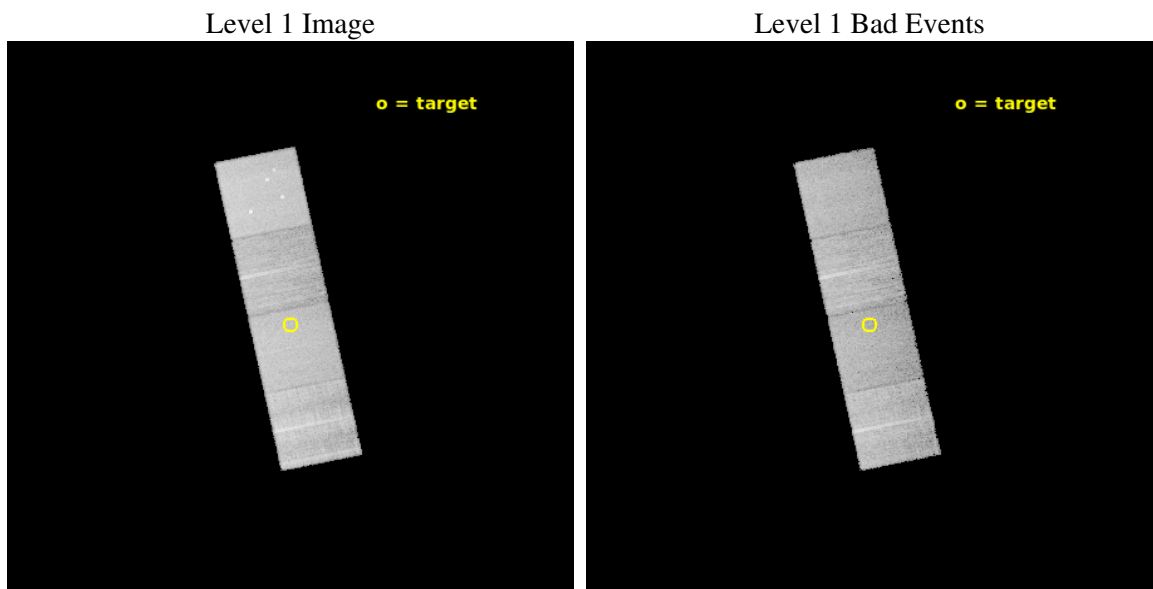
seq_num	703467	Sequence number
obs_id	20961	Observation id
title	Late-time X-ray and Radio Observations of the Unique Relativistic TDE Sw 1644+57	Proposal title
observer	Tarraneh Eftekhari	Principal investigator
object	Swift J164449.3+573451	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	251.207917	Observer's specified target RA [deg]
dec_targ	57.58325	Observer's specified target Dec [deg]
ra_nom	251.21028025025	Nominal RA [deg]
dec_nom	57.581060009187	Nominal Dec [deg]
roll_nom	78.158853355582	Nominal Roll [deg]
revision	2	Processing version of data
ontime	12362.800095201	Sum of GTIs [s]
livetime	12201.271010596	Livetime [s]
ontime5	12362.800095201	Sum of GTIs [s]
ontime6	12362.800095201	Sum of GTIs [s]
ontime7	12362.800095201	Sum of GTIs [s]
ontime8	12362.800095201	Sum of GTIs [s]
l2events	137626	Number of level 2 events



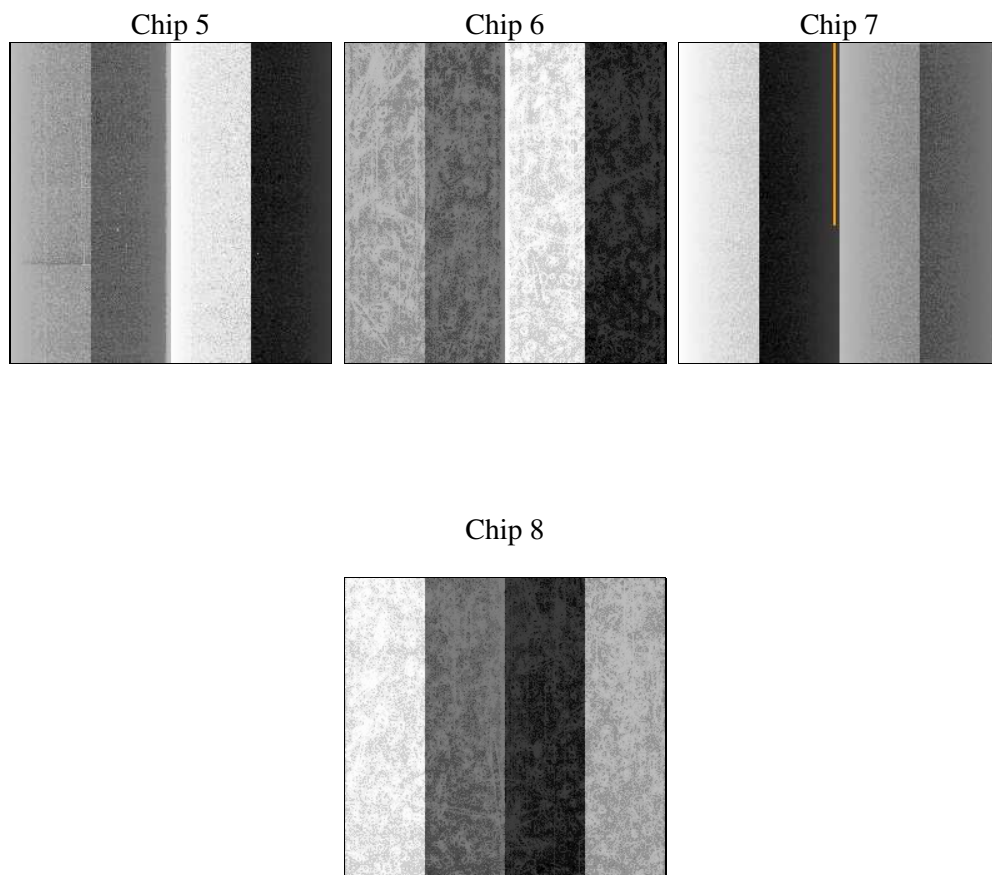
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	12300.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	12362.800095201	Sum of GTIs [s]
caldsver	4.9.3	 	ontime5	12362.800095201	Sum of GTIs [s]
date	2020-10-24T16:27:42	Date and time of file creation	ontime6	12362.800095201	Sum of GTIs [s]
revision	2	Processing version of data	ontime7	12362.800095201	Sum of GTIs [s]
			ontime8	12362.800095201	Sum of GTIs [s]
			l1events	479444	Number of level 1 events

2.1.4 Events

	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	145536	92745	117426	123737
rejected events	74642	82258	65502	89050
rejected %	51%	88%	55%	71%

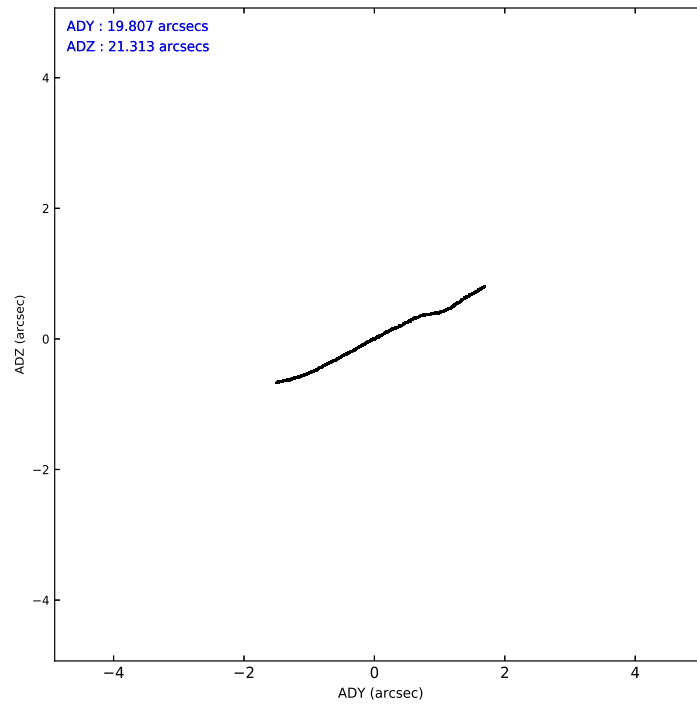
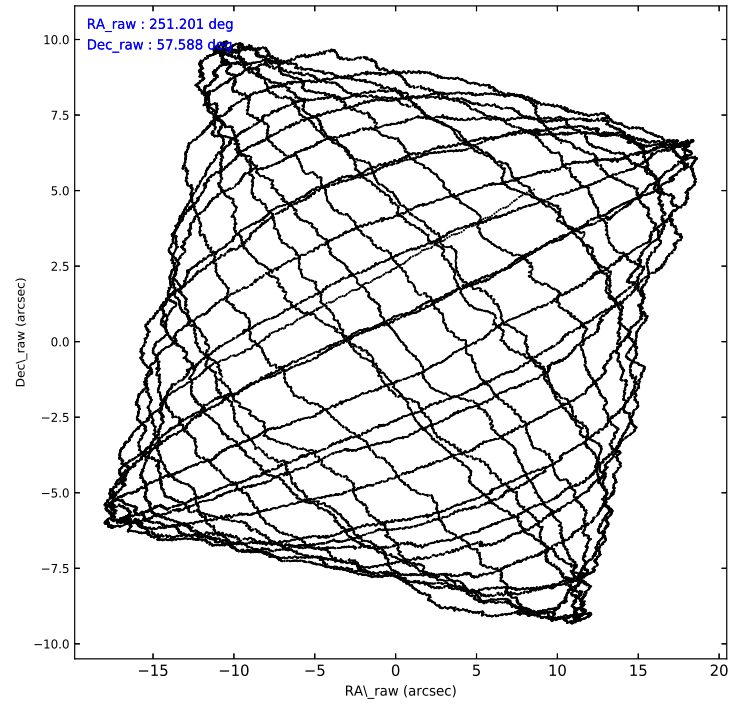
	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	6354	3497	4301	9863
	4%	3%	3%	7%
grade 1 events	331	49	191	107
	0%	0%	0%	0%
grade 2 events	21973	2474	11179	8534
	15%	2%	9%	6%
grade 3 events	2407	1060	4178	3514
	1%	1%	3%	2%
grade 4 events	2294	1056	4163	3272
	1%	1%	3%	2%
grade 5 events	10514	4356	11762	6663
	7%	4%	10%	5%
grade 6 events	37900	2402	28131	9537
	26%	2%	23%	7%
grade 7 events	63763	77851	53521	82247
	43%	83%	45%	66%

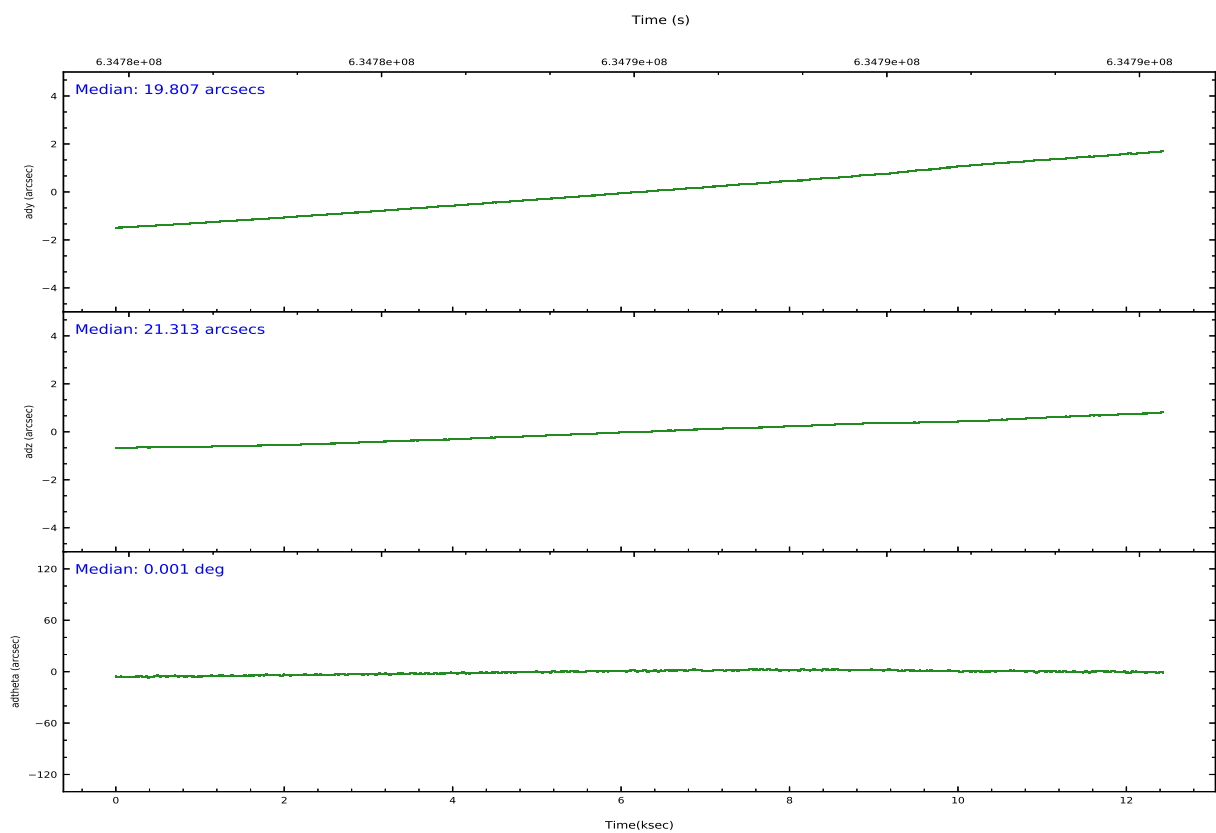
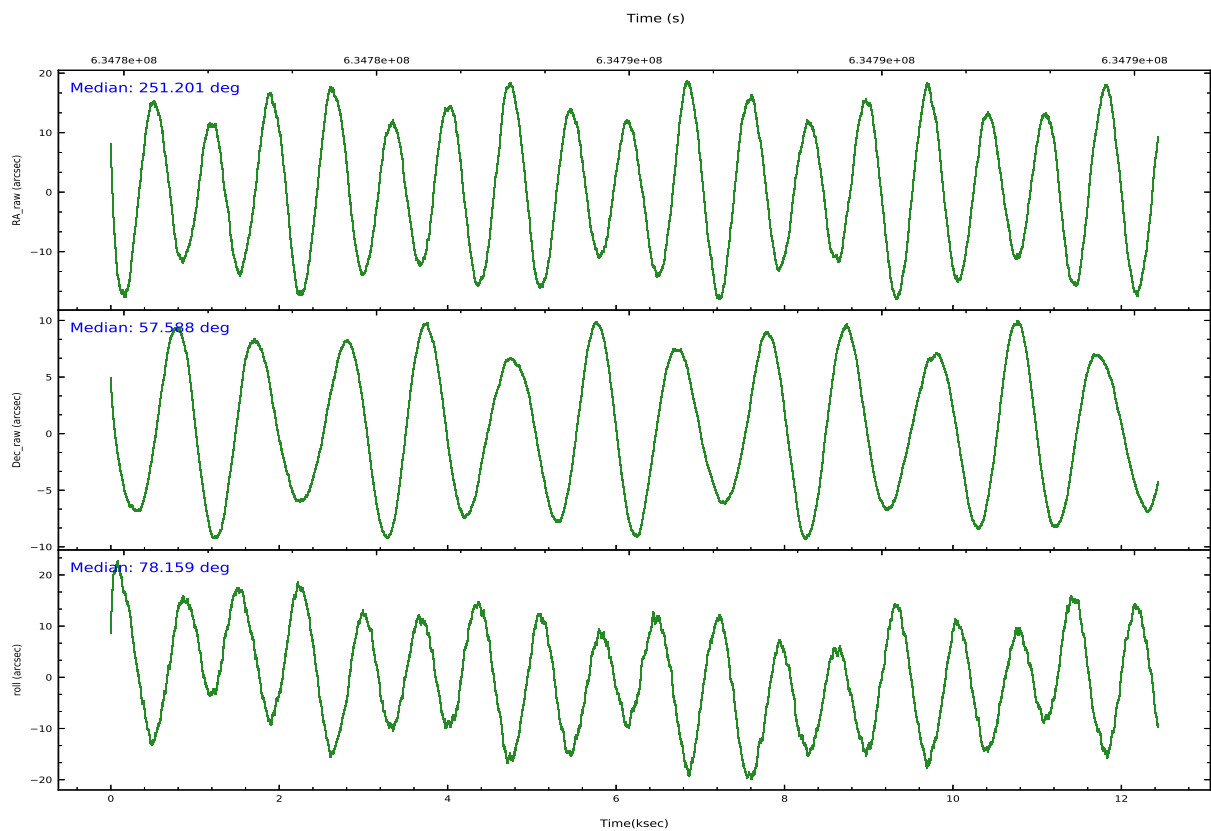
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-5678	ACIS-5678
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	251.217997	251.21028025025
[deg] Pointing Dec	57.562002	57.581060009187
[deg] Pointing Roll	77.991489	78.158853355582
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-190.132523	-190.1400660498719
[mm] SIM translation stage offset	0	0.00754346686406393
[s] Observation start time (MET)	634779981.184000	634778296.8029799
Observation start date	2018-02-11T23:45:12	2018-02-11T23:18:16
[s] Observation end time (MET)	634792281.184000	634793162.37885
Observation end date	2018-02-12T03:10:12	2018-02-12T03:26:02
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar version number	8	8
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
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	3.1

2.3 Aspect



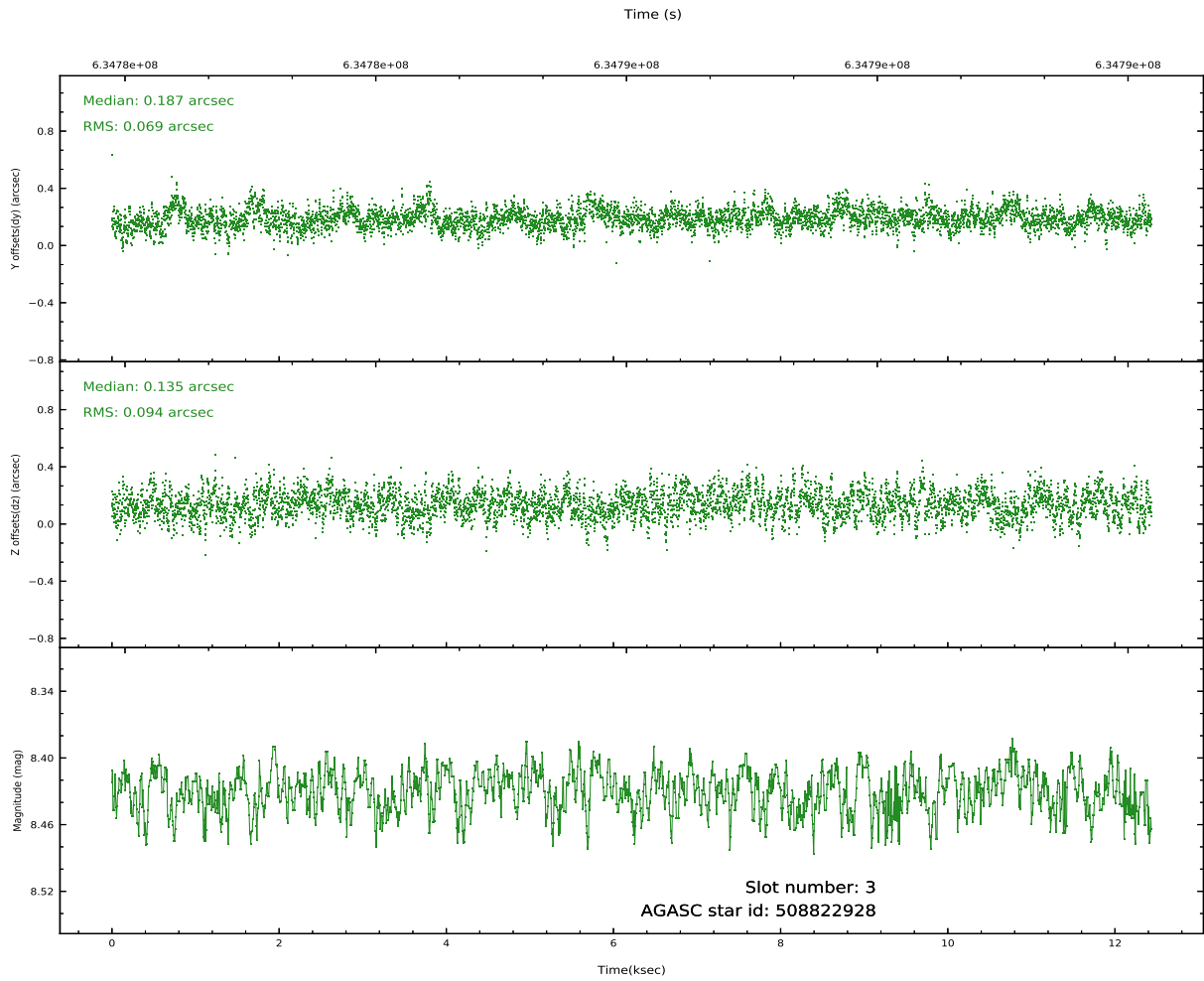
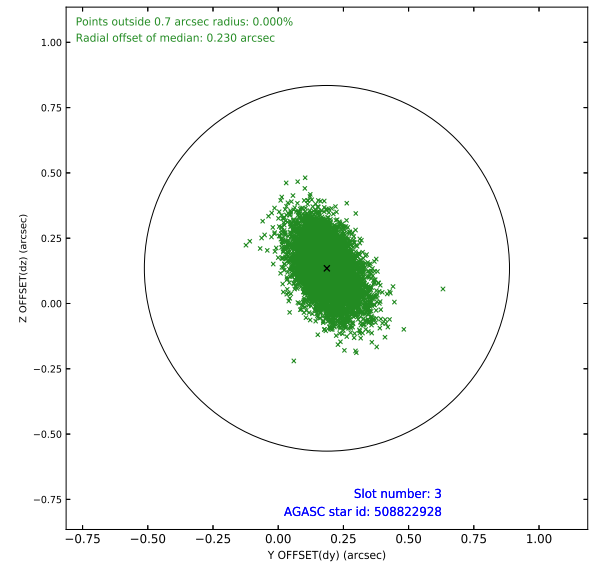
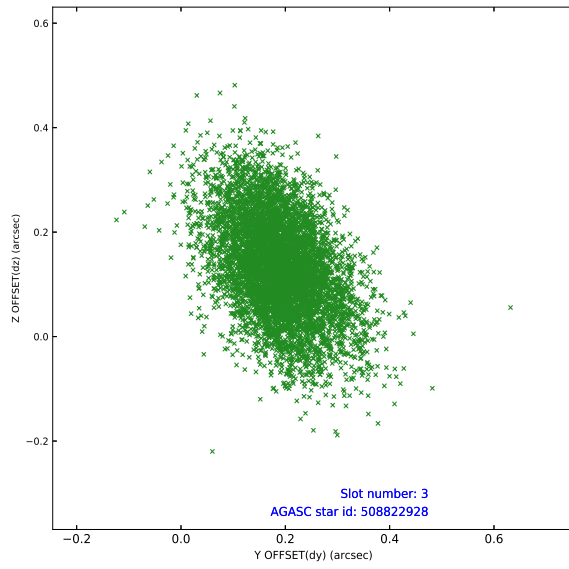


Slot Statistics

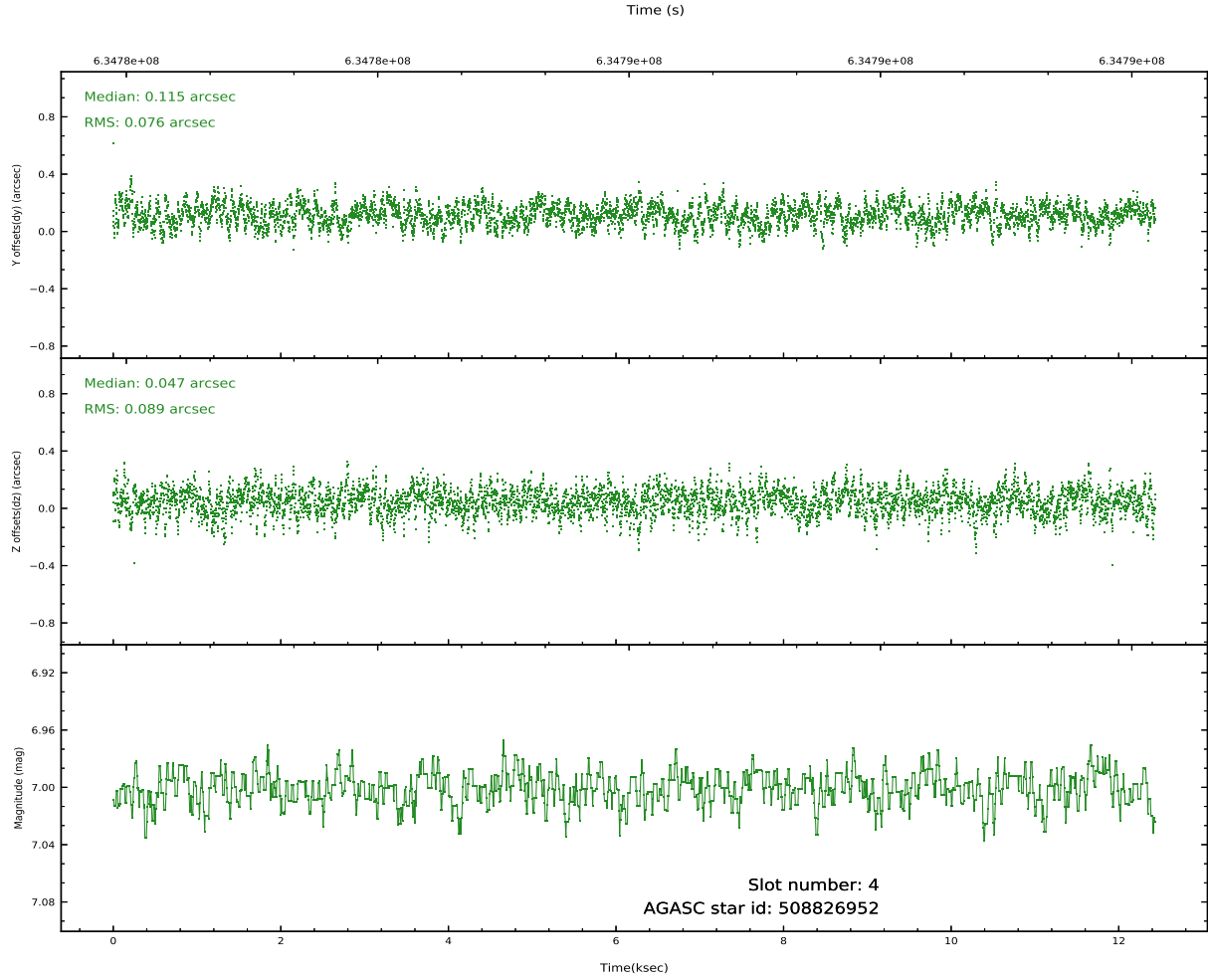
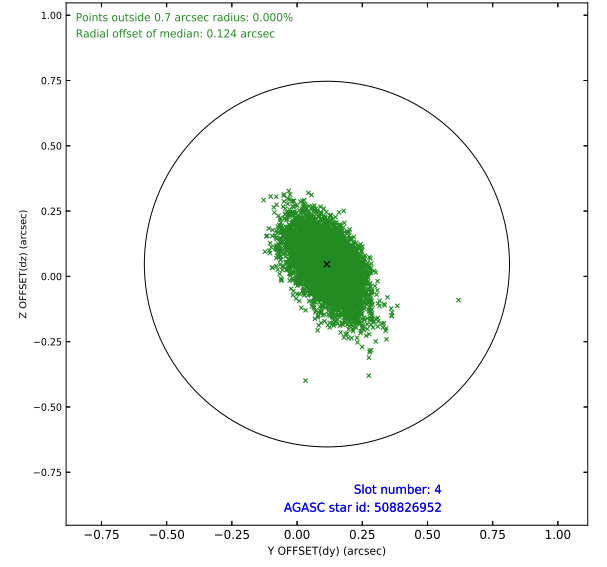
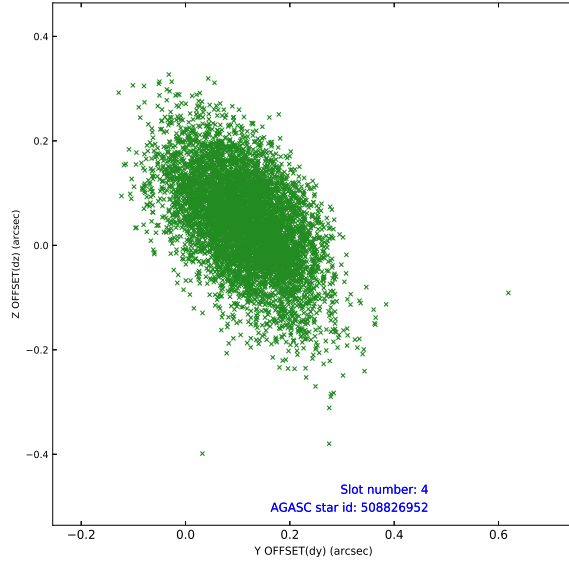
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-1	7.07	3034	1.000	0.250	-0.158	0.026	0.034	0.000000	0.000000	923.14	-1738
1	FID		ACIS-S-2	6.99	3033	1.000	-0.006	-0.046	0.028	0.039	0.000000	0.000000	-772.80	-1743
2	FID		ACIS-S-5	7.09	3034	1.000	-0.271	0.210	0.015	0.023	0.000000	0.000000	-1826.50	159
3	GUIDE	used	508822928	8.43	6068	1.000	0.187	0.135	0.121	0.210	251.922984	56.892498	-2060.41	-1856
4	GUIDE	used	508826952	7.00	6066	1.000	0.115	0.047	0.120	0.208	252.003832	57.489272	68.98	-1540
5	GUIDE	used	509214760	8.31	6062	1.000	-0.070	0.017	0.111	0.196	250.589992	57.556199	-267.06	1182
6	GUIDE	used	509223192	7.72	6063	1.000	-0.067	-0.228	0.106	0.187	251.320493	58.085113	1882.94	201
7	GUIDE	used	509227784	9.21	6057	1.000	-0.167	0.032	0.137	0.237	250.982124	57.635413	165.47	500

2.4 Star Slots

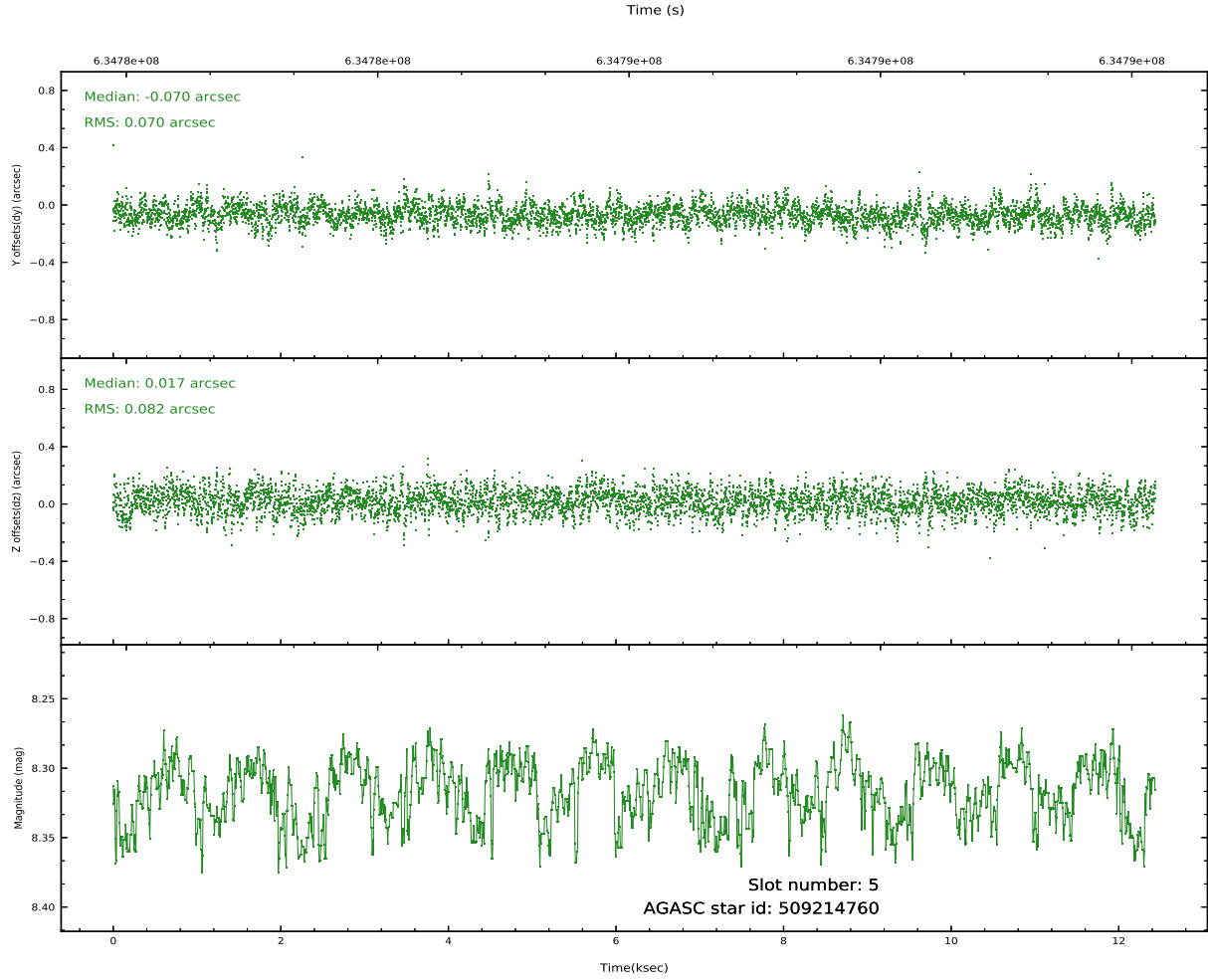
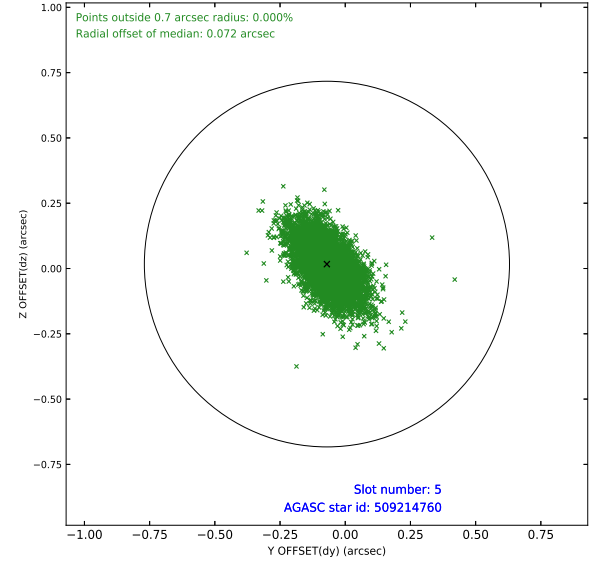
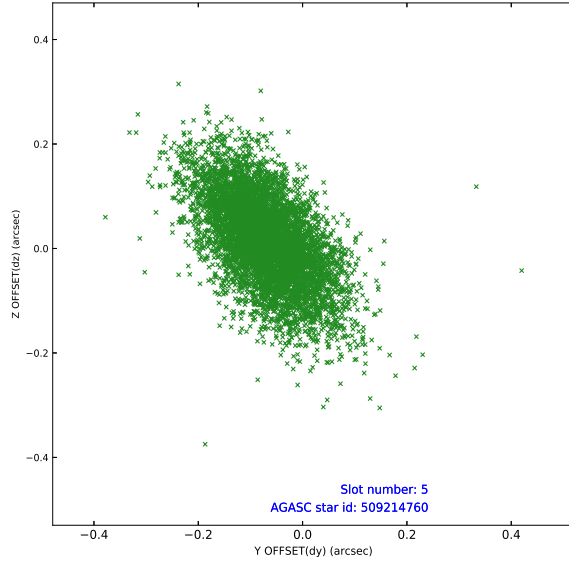
2.4.1 Slot 3



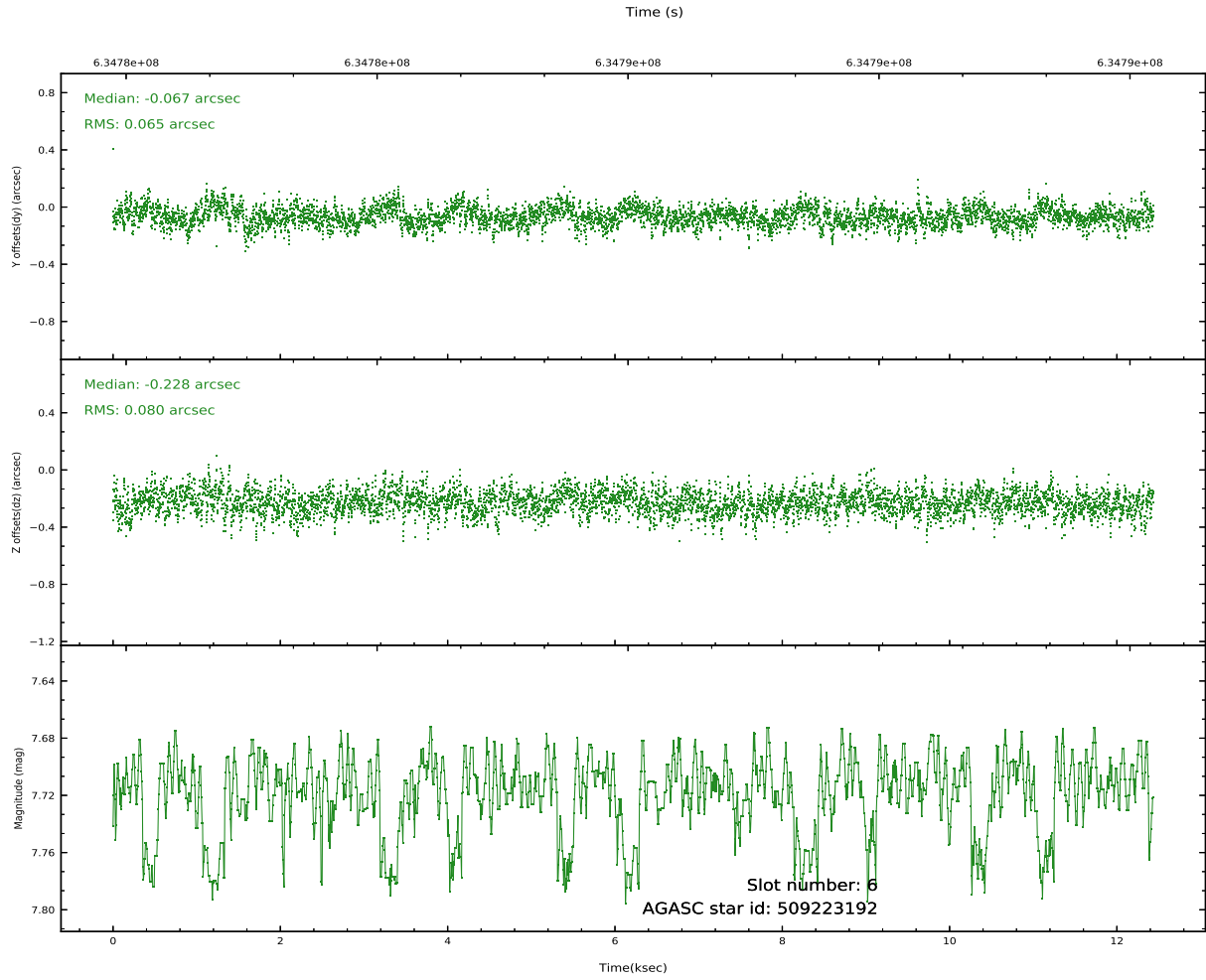
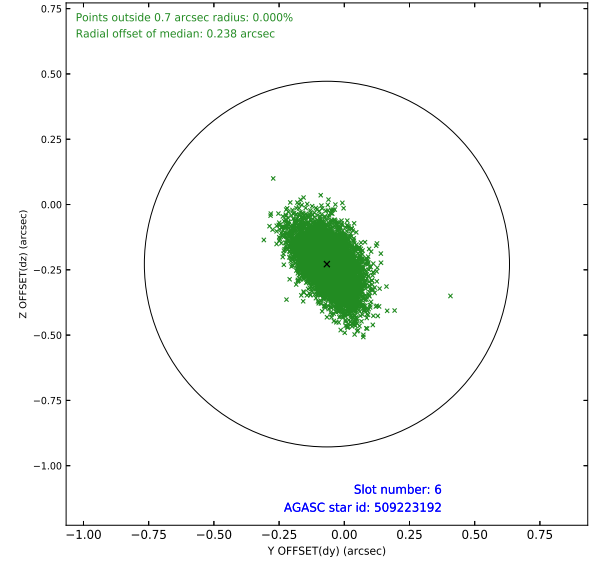
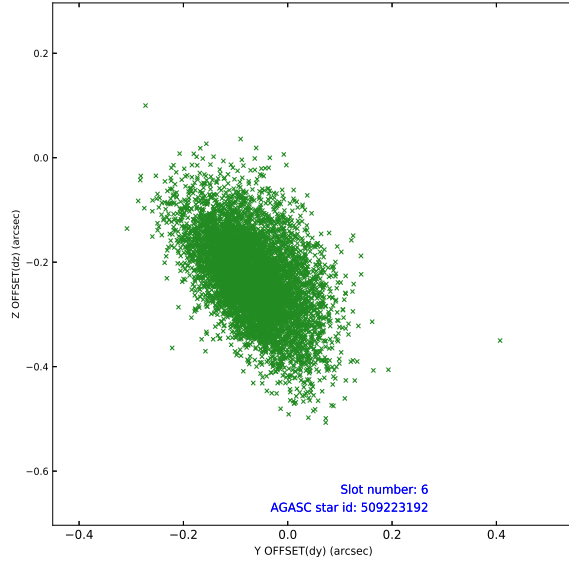
2.4.2 Slot 4



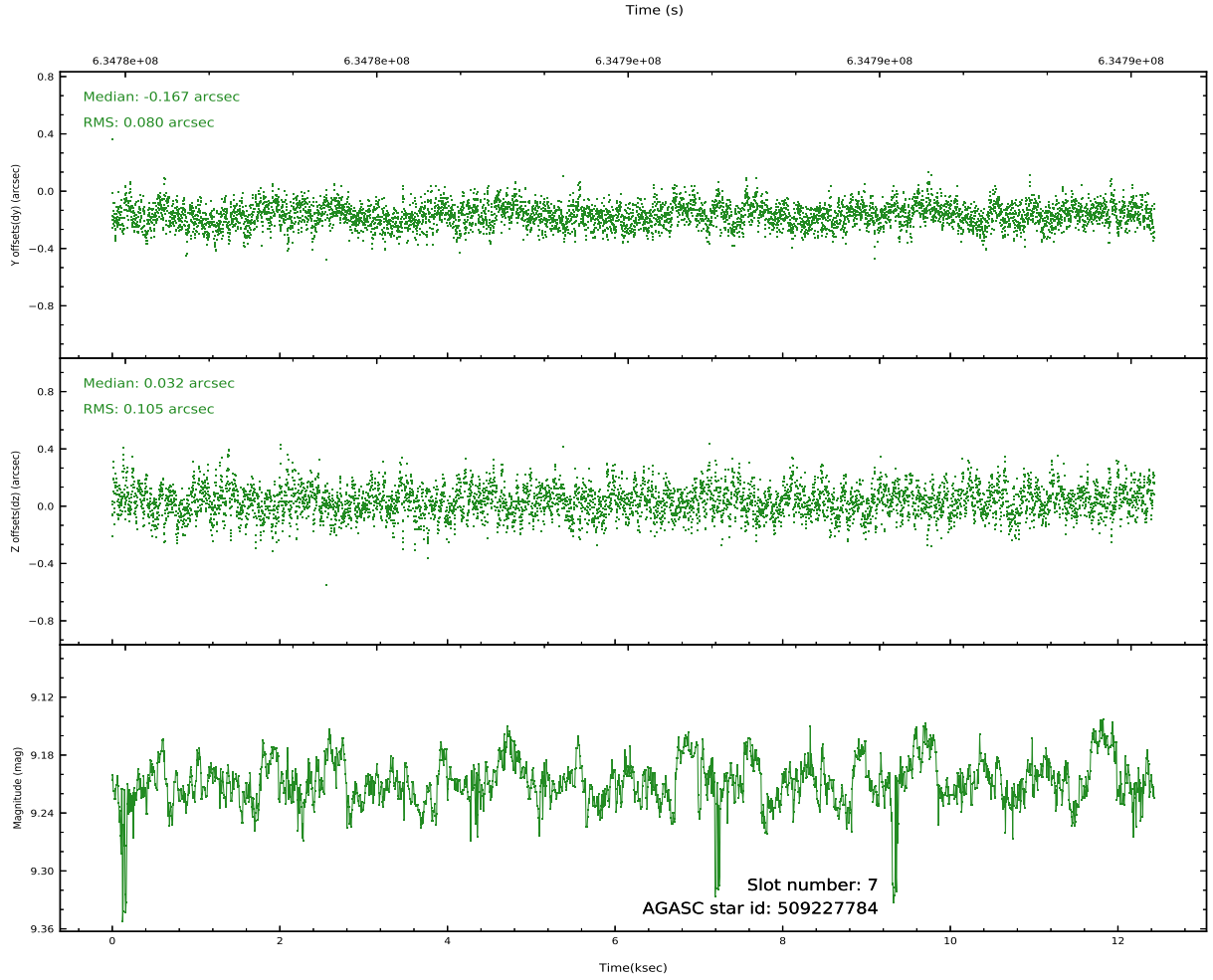
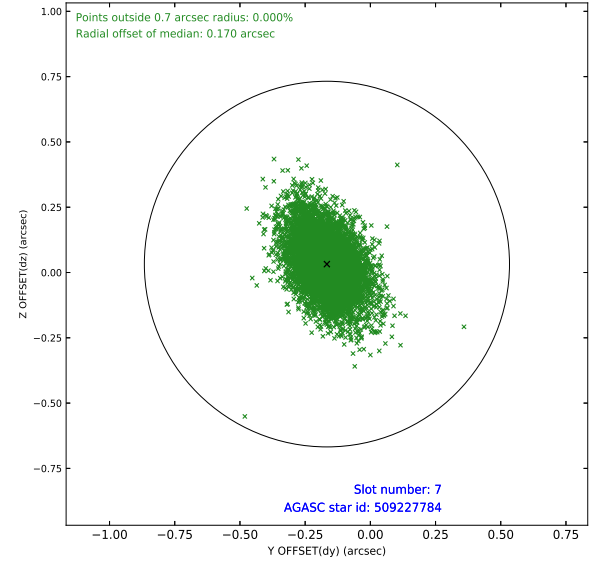
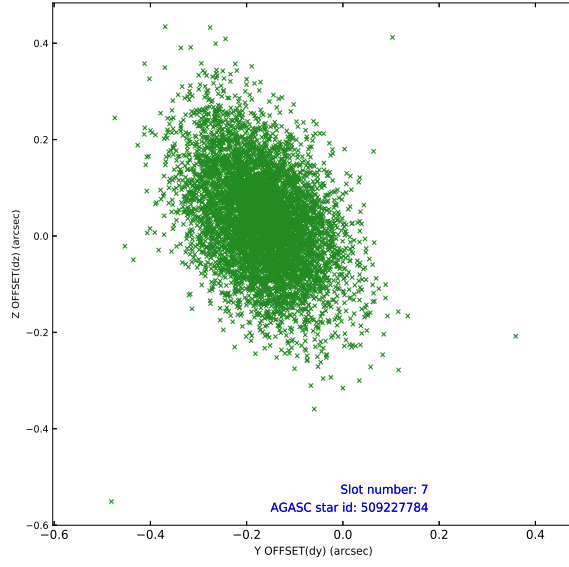
2.4.3 Slot 5



2.4.4 Slot 6

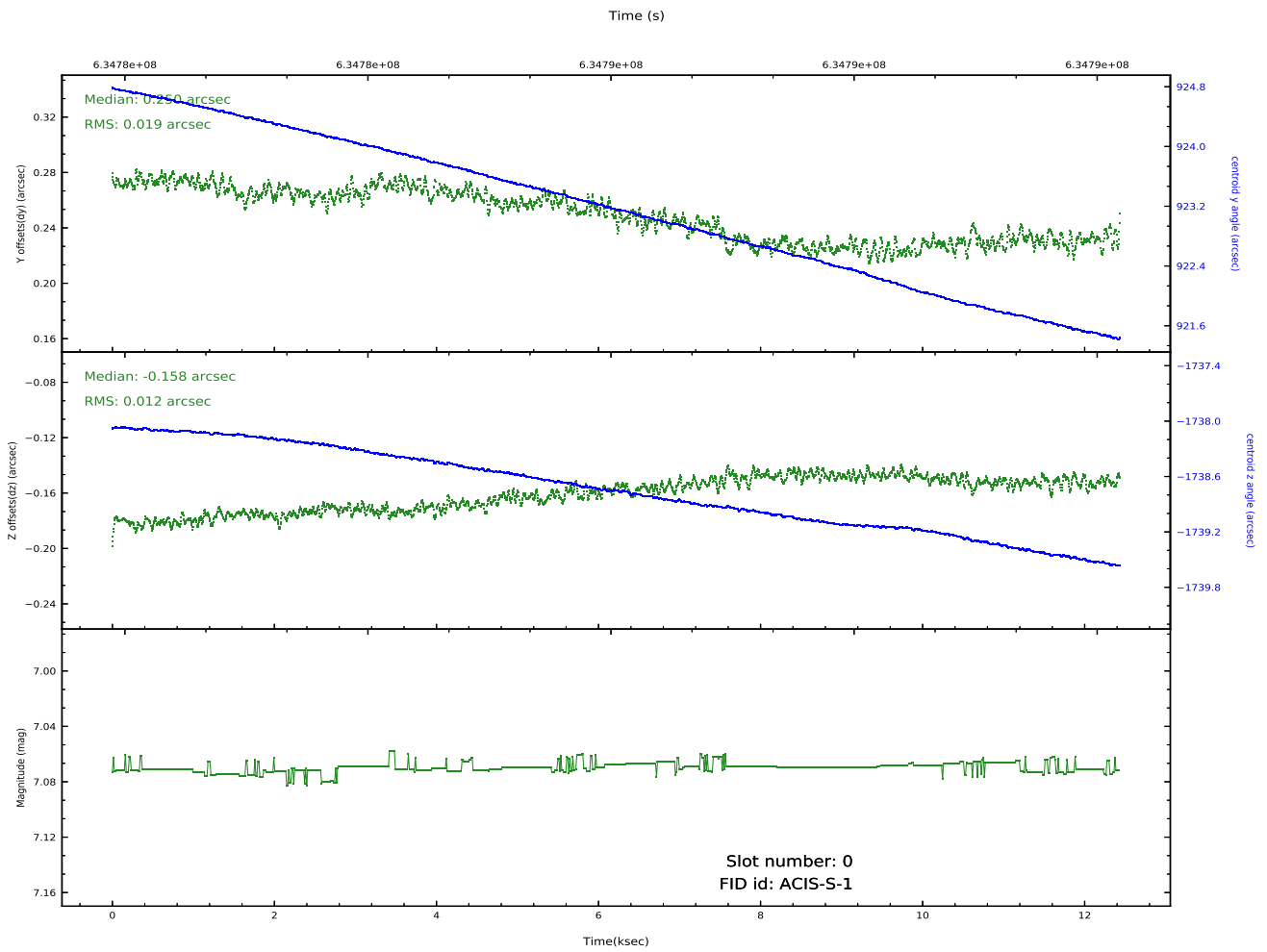
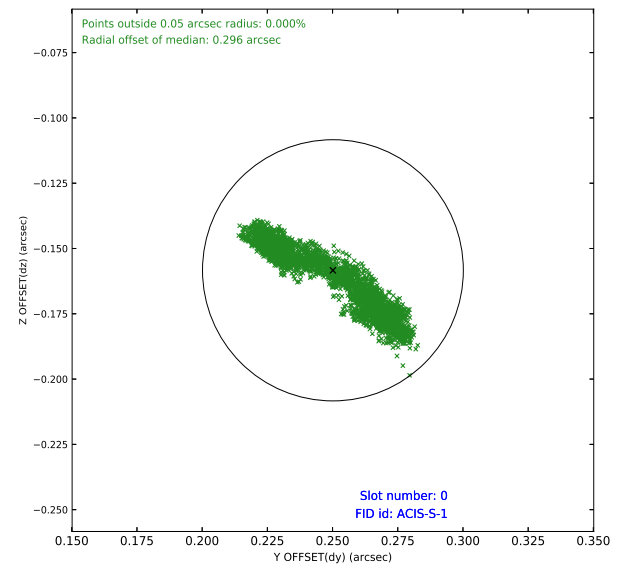
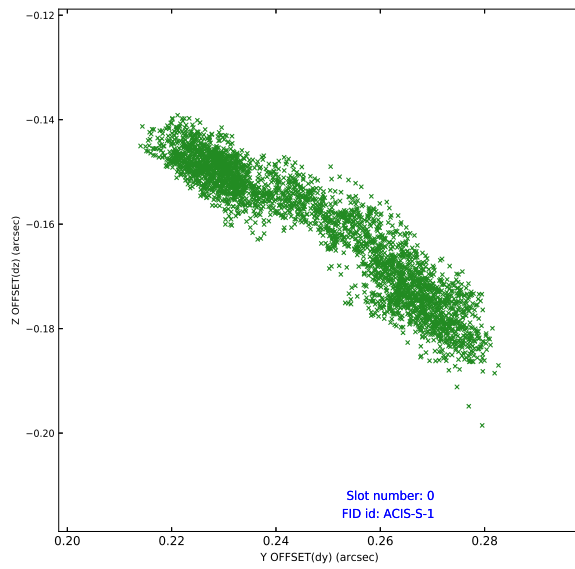


2.4.5 Slot 7

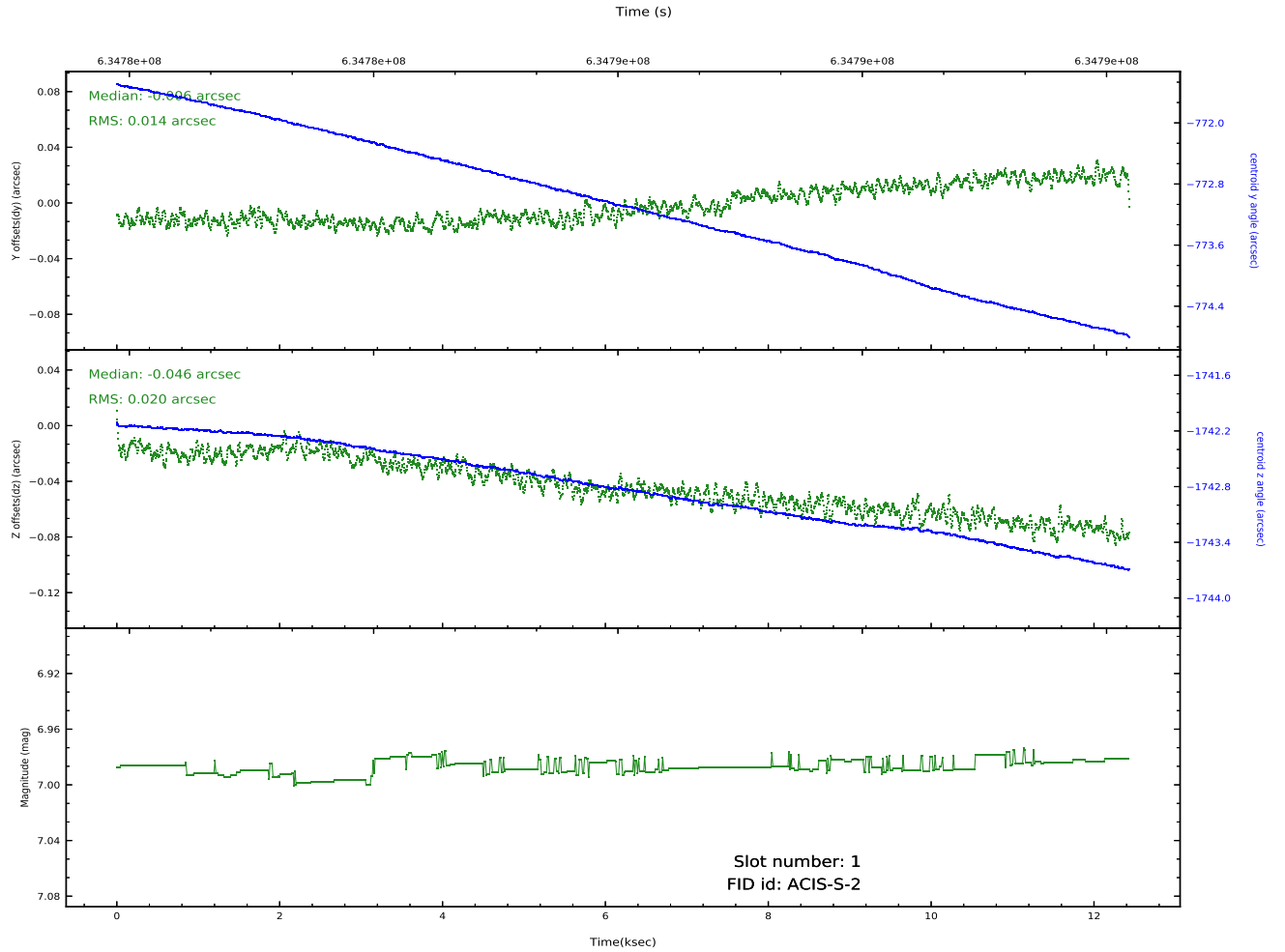
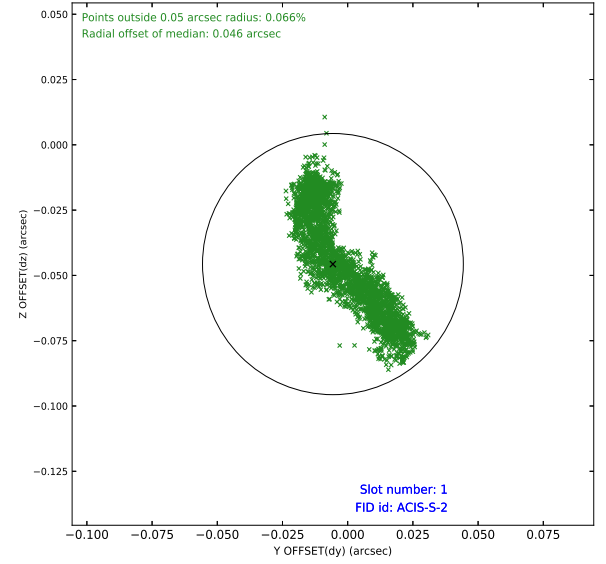
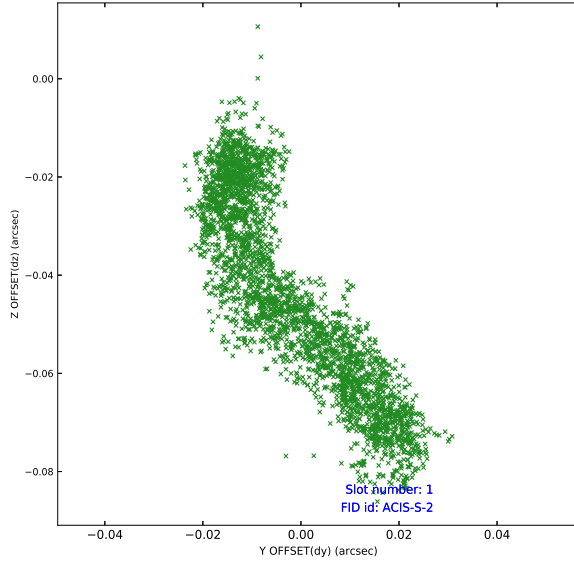


2.5 FID Slots

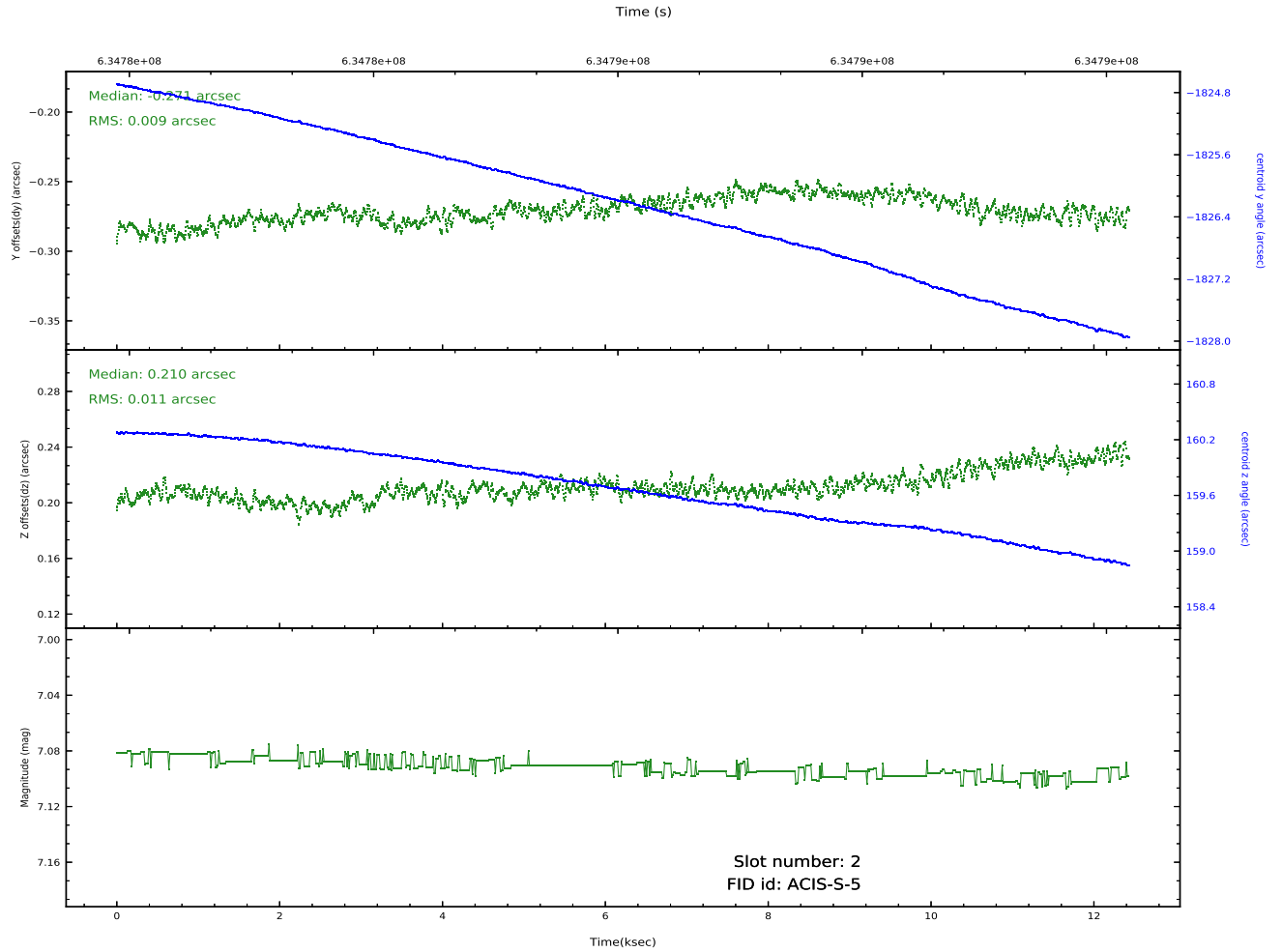
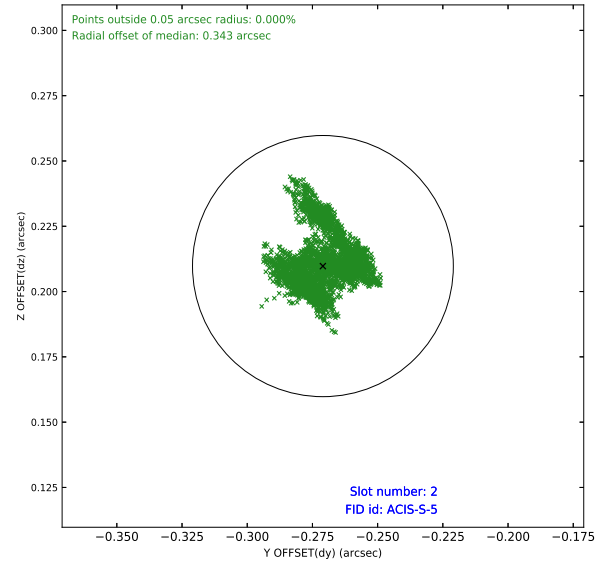
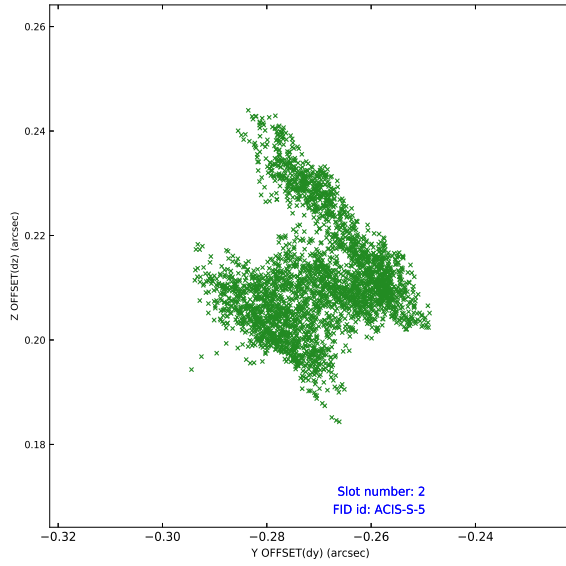
2.5.1 Slot 0



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	12.362800095201

A.2 Comments

Joint proposal with NRAO.