

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20201 - L2 Version 2
Chandra X-Ray Center

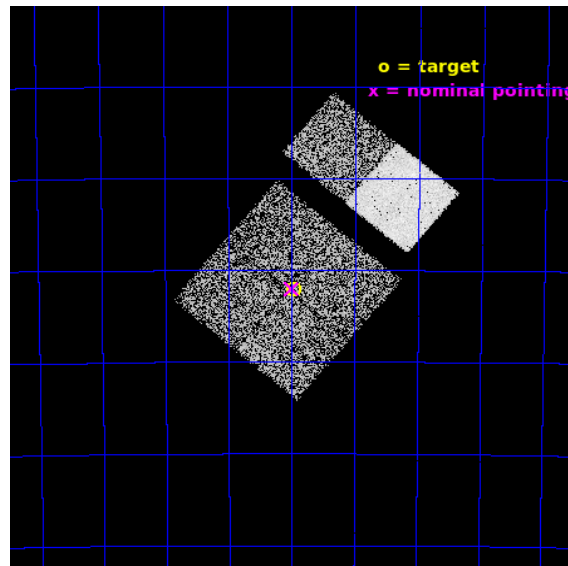
L2 Processing Date : Oct 24 2020

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1 Front

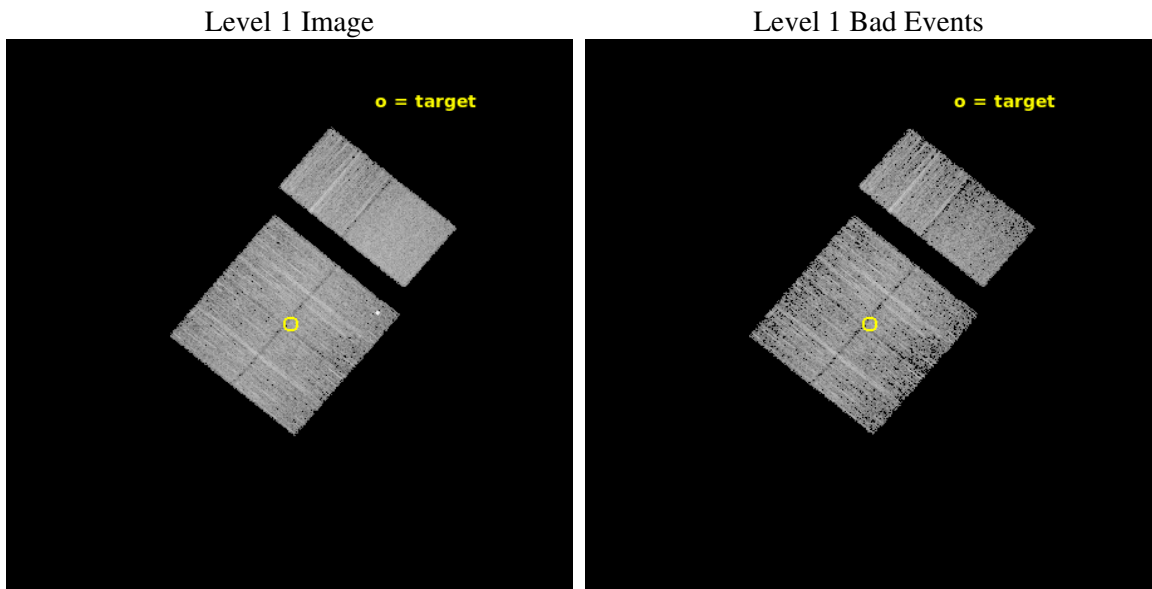
seq_num	401928	Sequence number
obs_id	20201	Observation id
title	The Nature of INTEGRAL Sources in the Galactic Plane	Proposal titl
observer	John Tomsick	Principal investigator
object	IGR J12529-6351	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	193.240833	Observer's specified target RA [deg]
dec_targ	-63.868	Observer's specified target Dec [deg]
ra_nom	193.24810430792	Nominal RA [deg]
dec_nom	-63.867385275937	Nominal Dec [deg]
roll_nom	39.907210185624	Nominal Roll [deg]
revision	2	Processing version of data
ontime	4950.4000737667	Sum of GTIs [s]
livetime	4887.7151272596	Livetime [s]
ontime0	4947.1590133905	Sum of GTIs [s]
ontime1	4950.4000737667	Sum of GTIs [s]
ontime2	4950.4000737667	Sum of GTIs [s]
ontime3	4950.4000737667	Sum of GTIs [s]
ontime6	4950.4000737667	Sum of GTIs [s]
ontime7	4950.4000737667	Sum of GTIs [s]
l2events	36574	Number of level 2 events



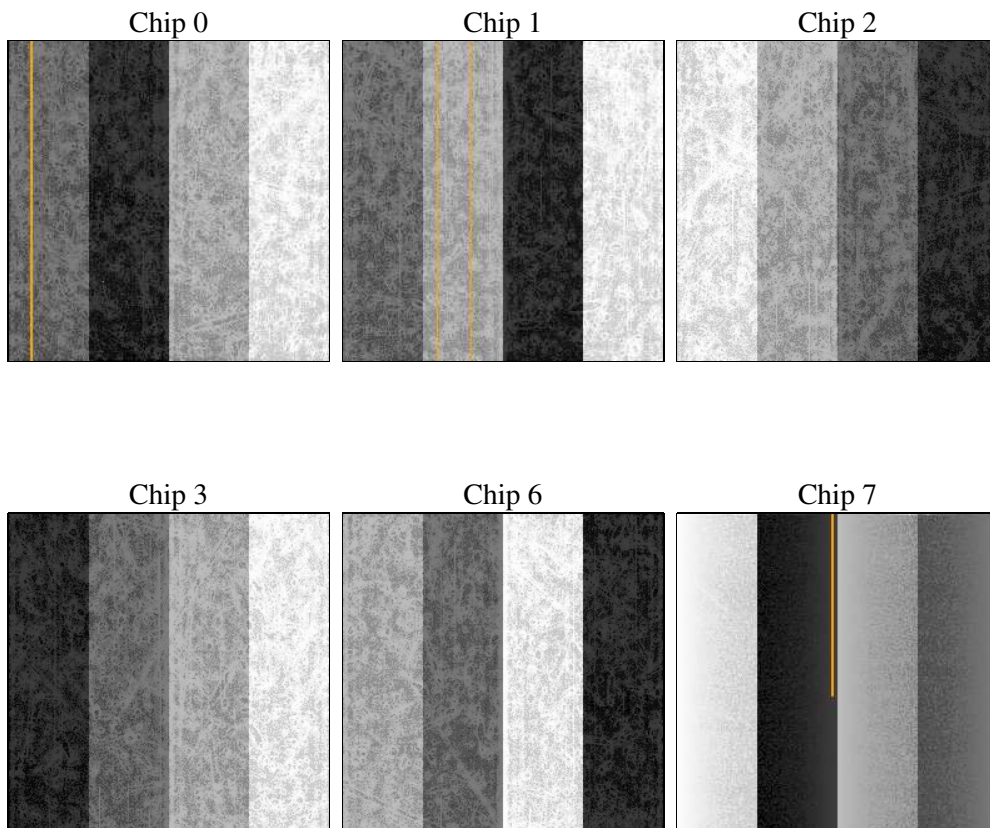
2 OBI

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	4950.4000737667	Sum of GTIs [s]
caldsver	4.9.3	 	ontime0	4947.1590133905	Sum of GTIs [s]
date	2020-10-24T18:16:11	Date and time of file creation	ontime1	4950.4000737667	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	4950.4000737667	Sum of GTIs [s]
			ontime3	4950.4000737667	Sum of GTIs [s]
			ontime6	4950.4000737667	Sum of GTIs [s]
			ontime7	4950.4000737667	Sum of GTIs [s]
			l1events	234245	Number of level 1 events

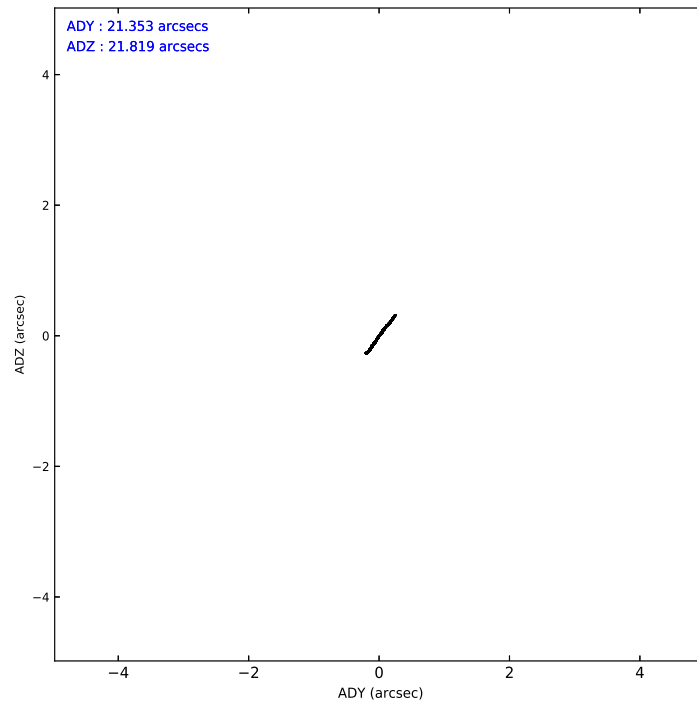
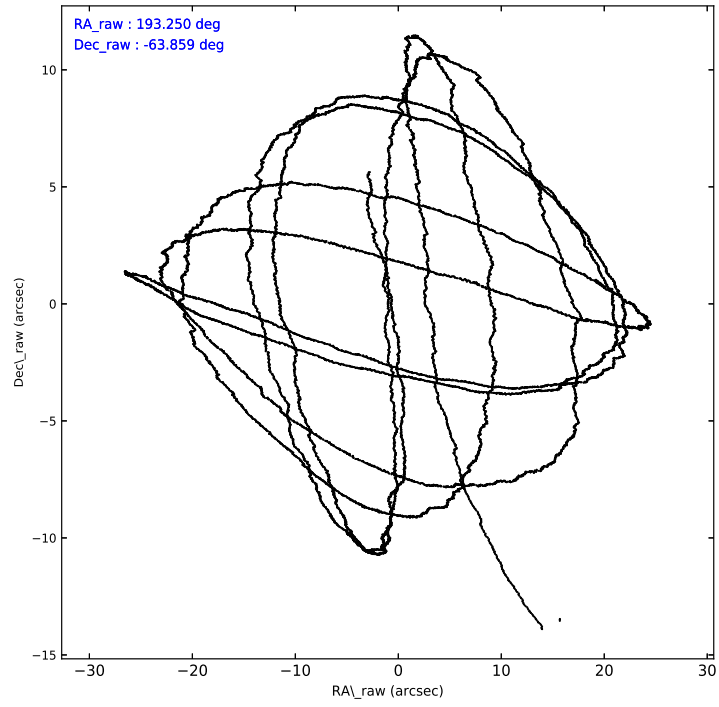
2.1.4 Events

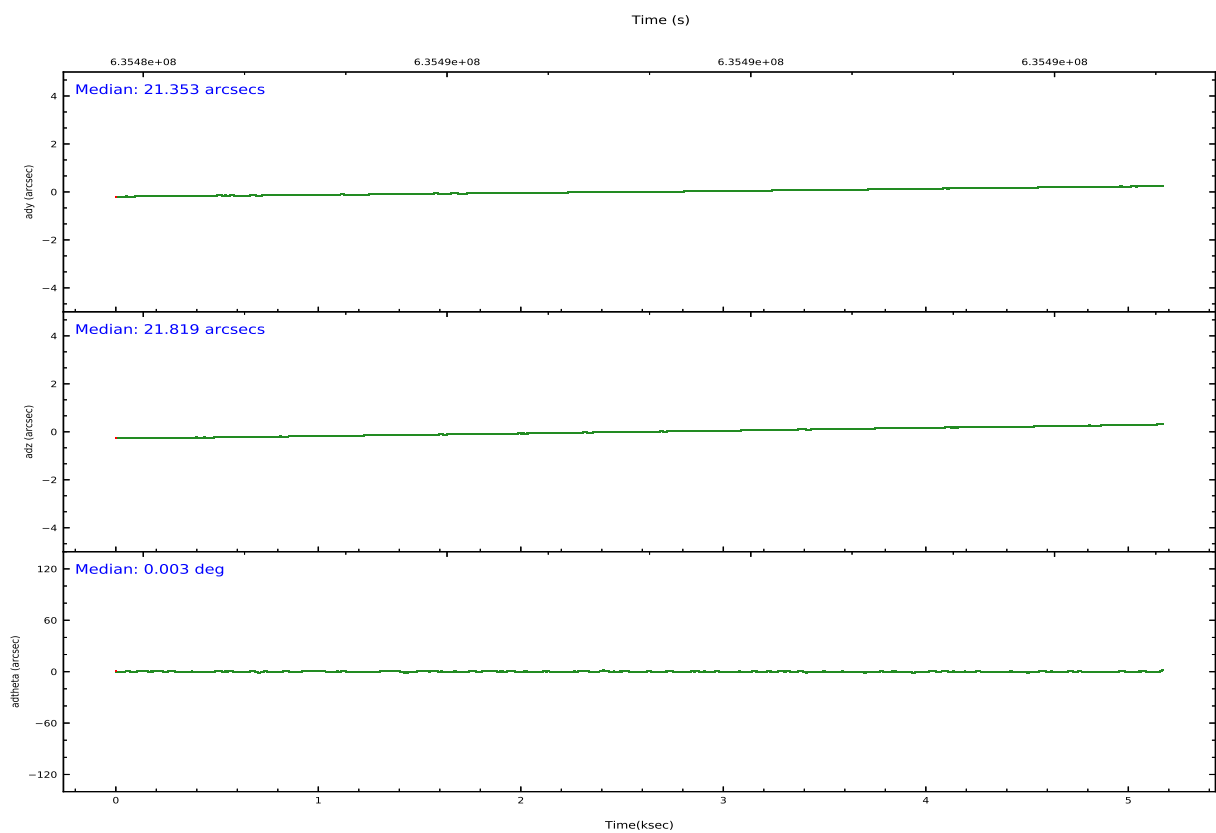
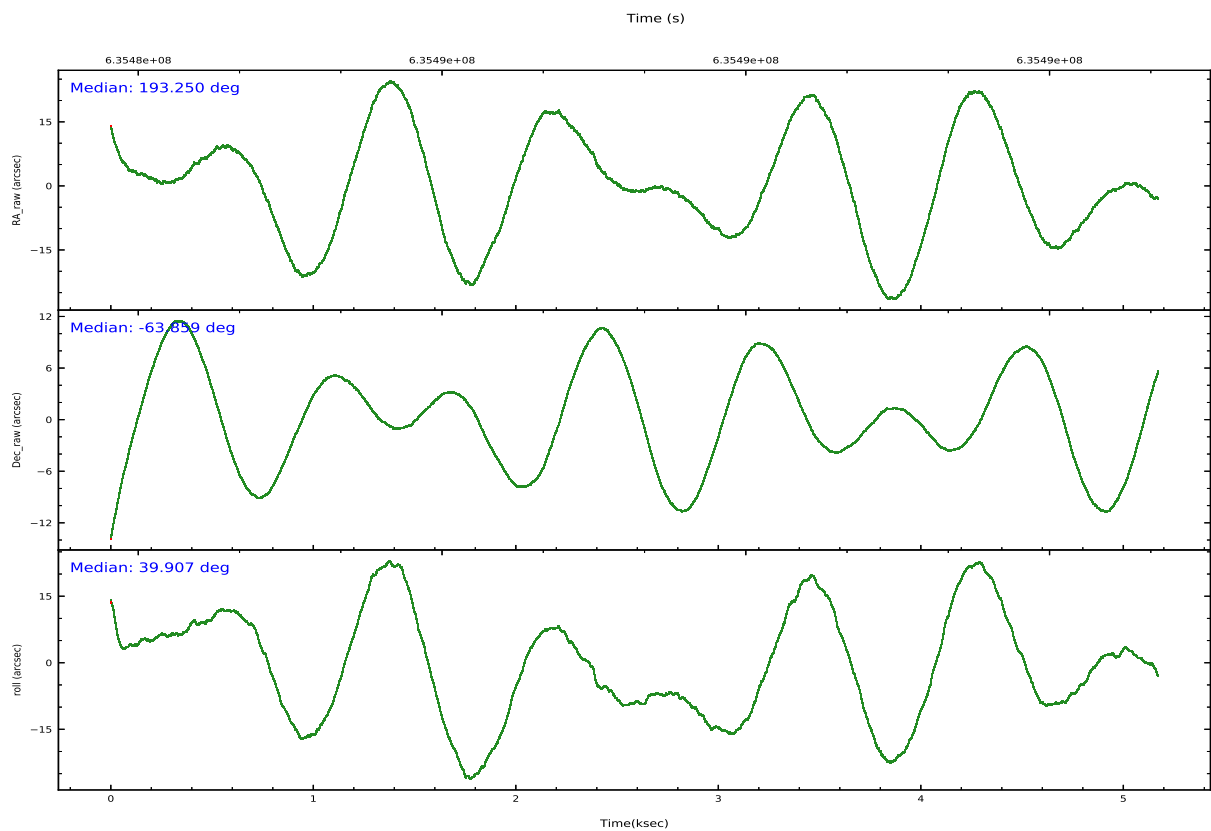
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	35007	35425	41061	36835	39254	46663	grade 0 events	1398	1409	1500	2880	1380	1621
rejected events	30934	30908	37106	31620	34984	26801		3%	3%	3%	7%	3%	3%
rejected %	88%	87%	90%	85%	89%	57%	grade 1 events	18	12	18	33	20	72
								0%	0%	0%	0%	0%	0%
							grade 2 events	1064	1207	932	819	996	4224
								3%	3%	2%	2%	2%	9%
							grade 3 events	382	423	387	365	413	1630
								1%	1%	0%	0%	1%	3%
							grade 4 events	367	389	412	340	399	1584
								1%	1%	1%	0%	1%	3%
							grade 5 events	1437	1535	1334	1651	1646	4471
								4%	4%	3%	4%	4%	9%
							grade 6 events	866	1093	726	816	1084	10809
								2%	3%	1%	2%	2%	23%
							grade 7 events	29475	29357	35752	29931	33316	22252
								84%	82%	87%	81%	84%	47%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-012367	ACIS-012367	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	193.228633	193.24810430792	CCD I2 on	Y	Y
[deg] Pointing Dec	-63.884576	-63.867385275937	CCD I3 on	Y	Y
[deg] Pointing Roll	39.691440	39.907210185624	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	O1	Y
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O2	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	635485037.184000	635483742.84454	CCD S5 on	N	N
Observation start date	2018-02-20T03:36:08	2018-02-20T03:15:42	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	635490037.184000	635490741.54495	On-chip summing requested	N	N
Observation end date	2018-02-20T04:59:28	2018-02-20T05:12:21	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



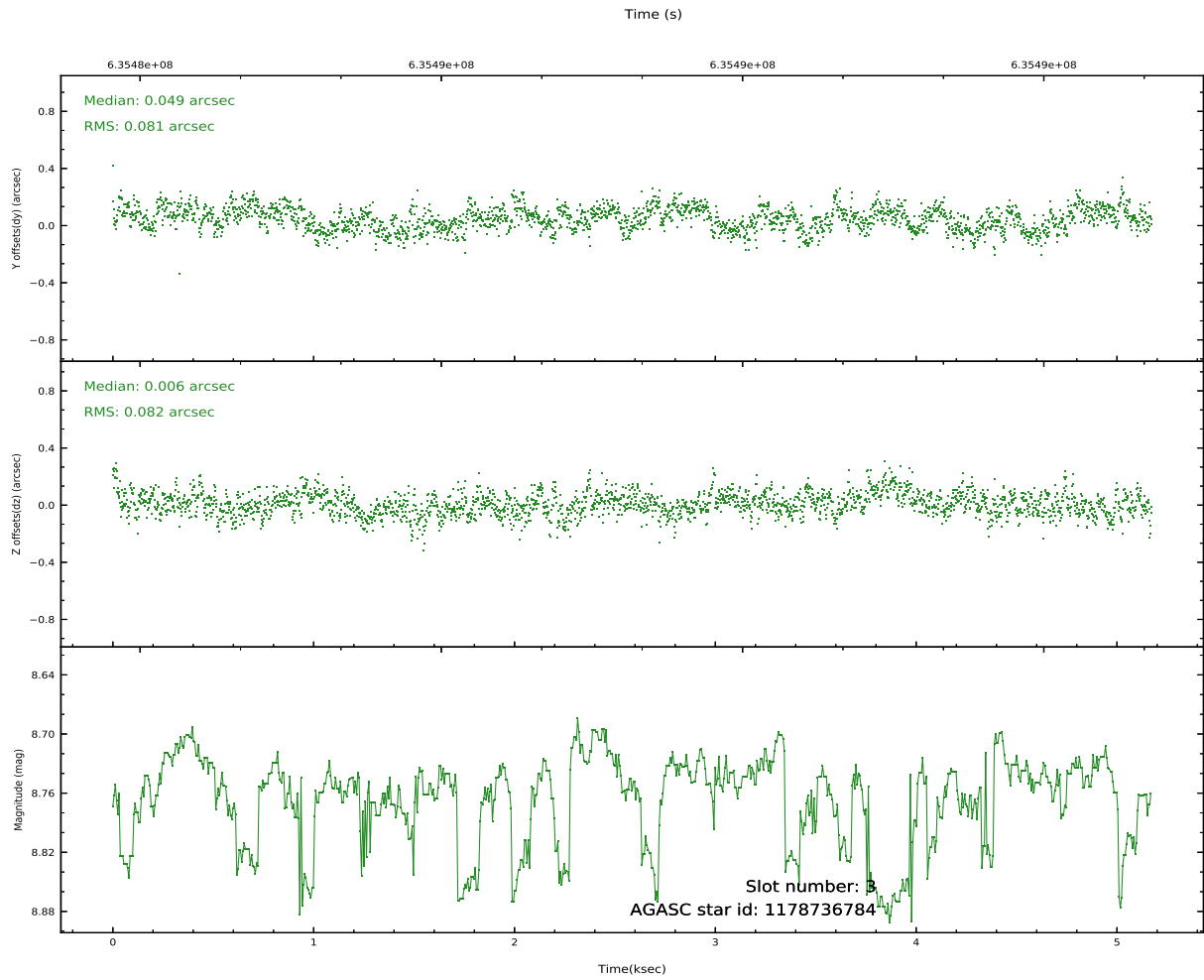
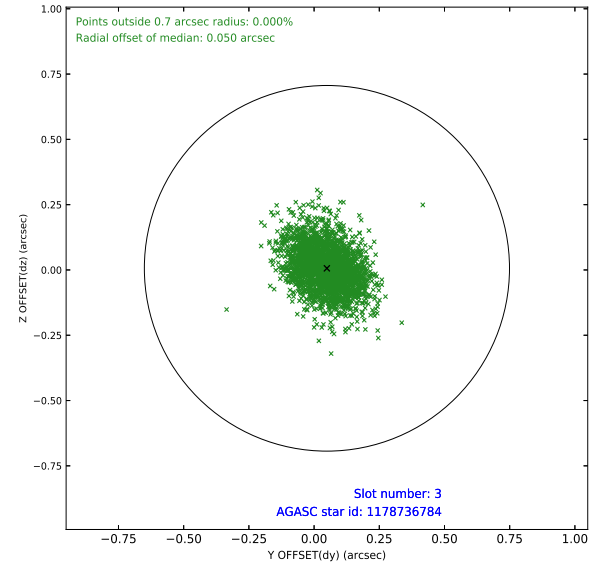
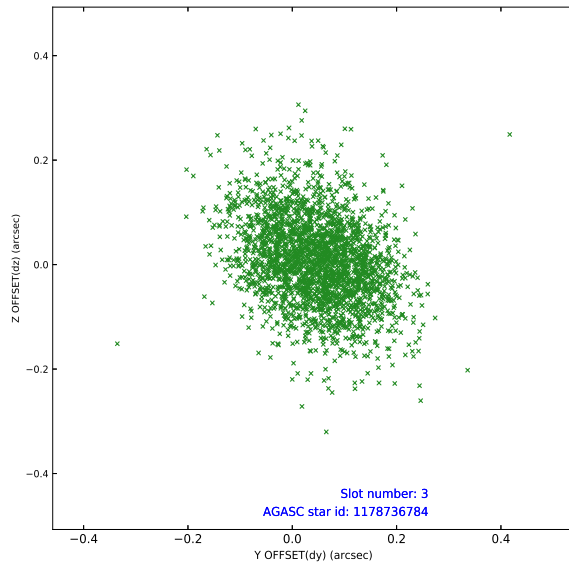


Slot Statistics

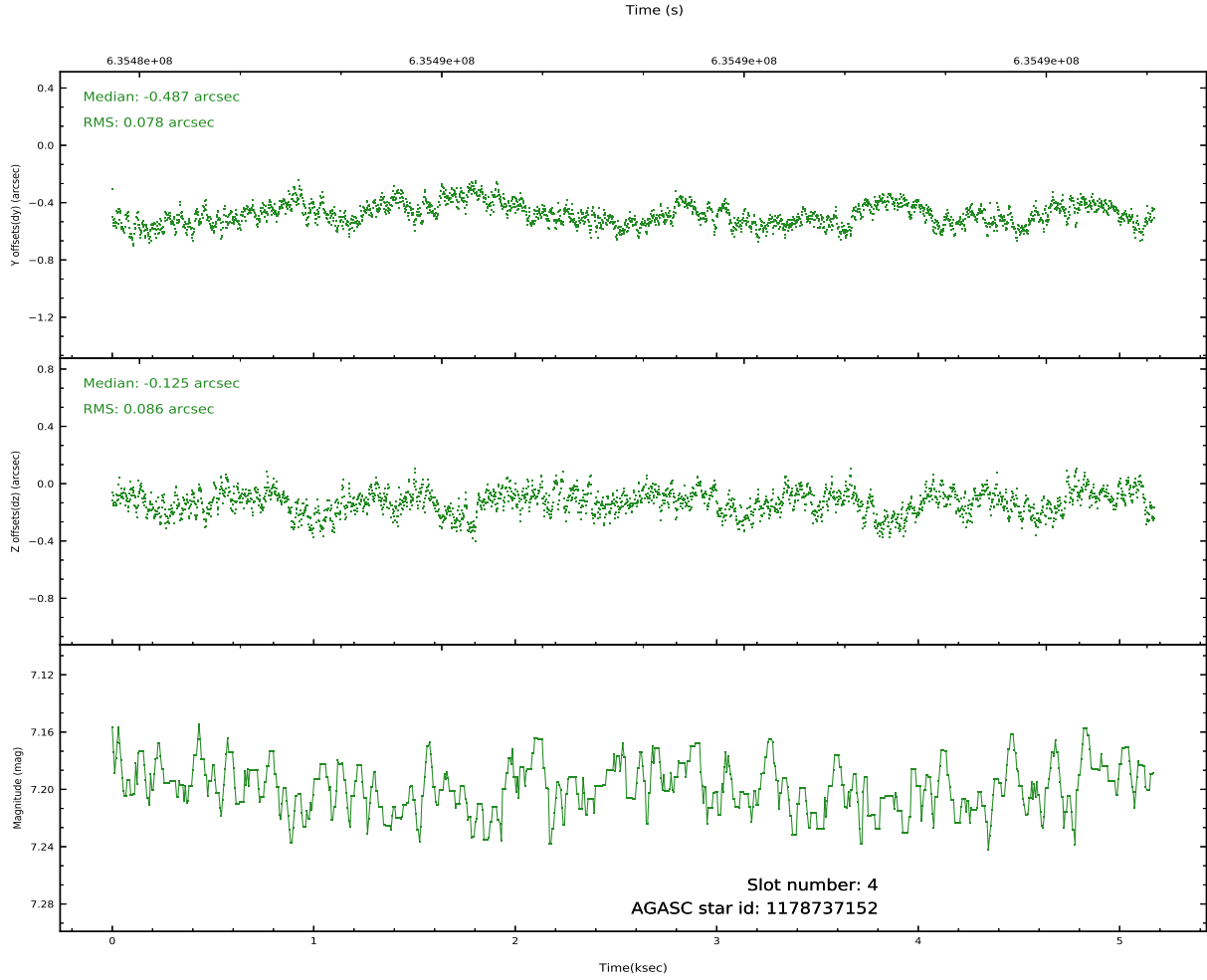
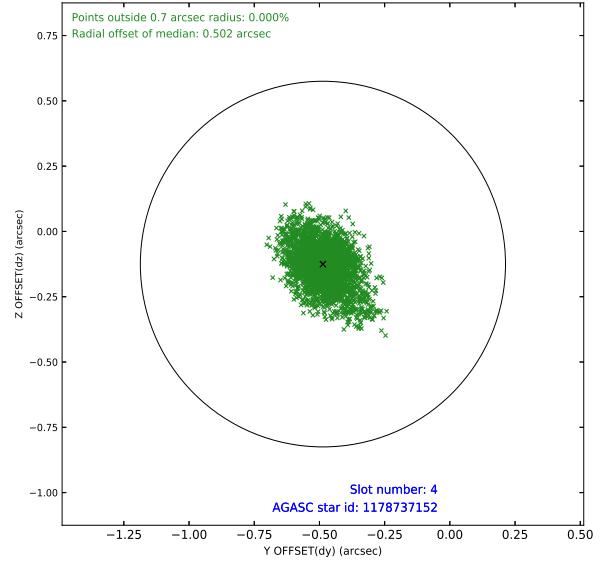
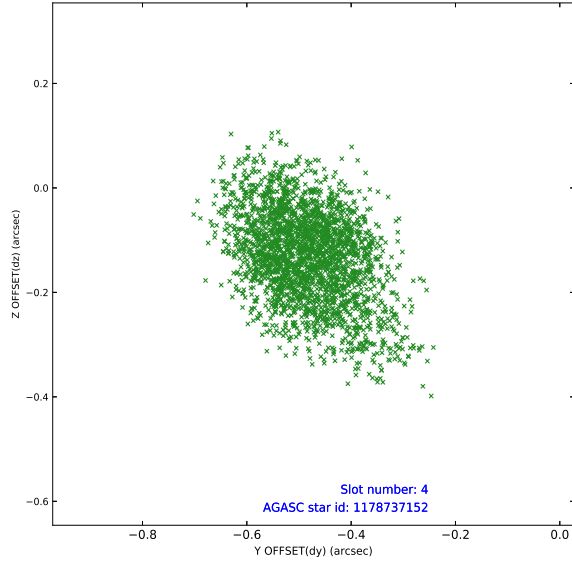
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.24	1262	1.000	0.250	-0.172	0.008	0.012	0.000000	0.000000	918.09	-845
1	FID		ACIS-I-5	7.21	1262	1.000	-0.346	0.207	0.007	0.012	0.000000	0.000000	-1829.81	1051
2	FID		ACIS-I-6	7.25	1262	1.000	0.004	0.035	0.009	0.014	0.000000	0.000000	382.32	1697
3	GUIDE	used	1178736784	8.75	2522	1.000	0.049	0.006	0.120	0.200	194.442863	-63.656885	2004.56	-621
4	GUIDE	used	1178737152	7.20	2524	1.000	-0.487	-0.125	0.121	0.206	193.028911	-63.439449	776.41	1437
5	GUIDE	used	1178737496	8.28	2523	1.000	0.044	-0.271	0.120	0.204	193.766276	-63.640784	1219.70	124
6	GUIDE	used	1179259616	9.04	2523	1.000	0.313	0.417	0.153	0.257	192.982137	-64.675773	-2110.76	-1949
7	GUIDE	used	1178736896	8.36	2519	1.000	0.083	-0.036	0.170	0.256	194.755483	-63.640622	2419.92	-905

2.4 Star Slots

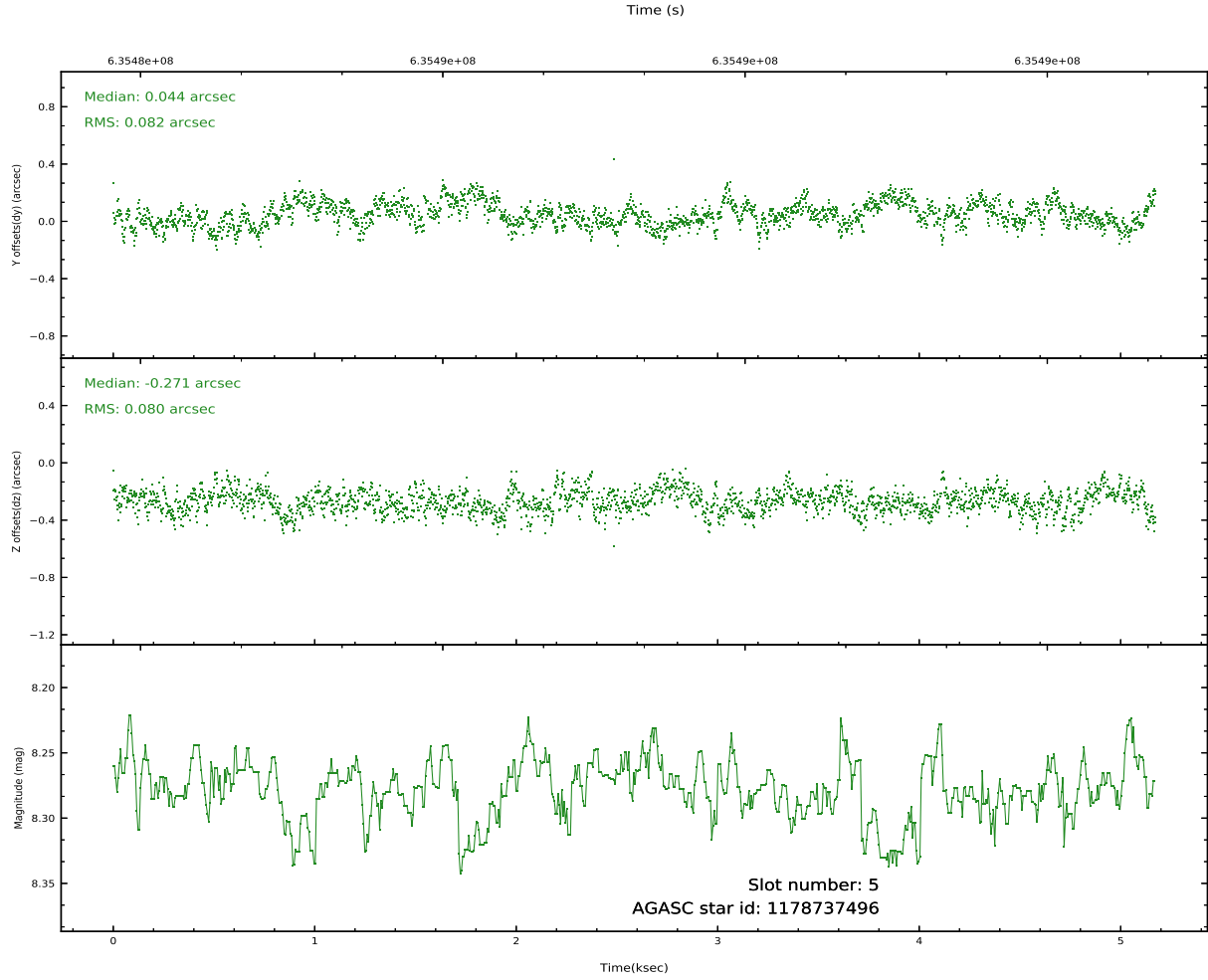
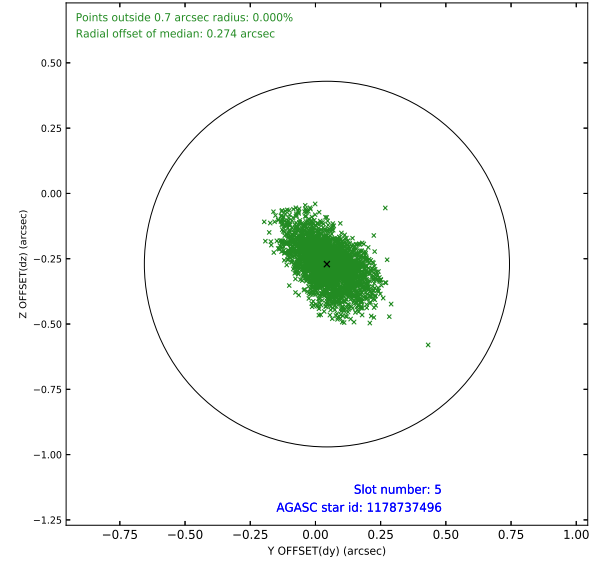
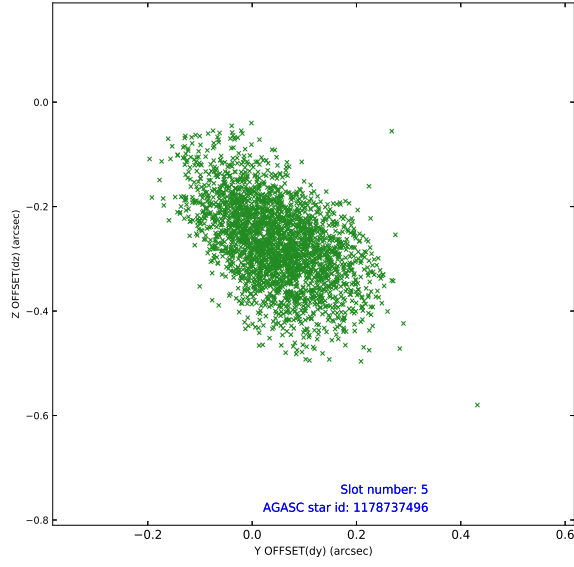
2.4.1 Slot 3



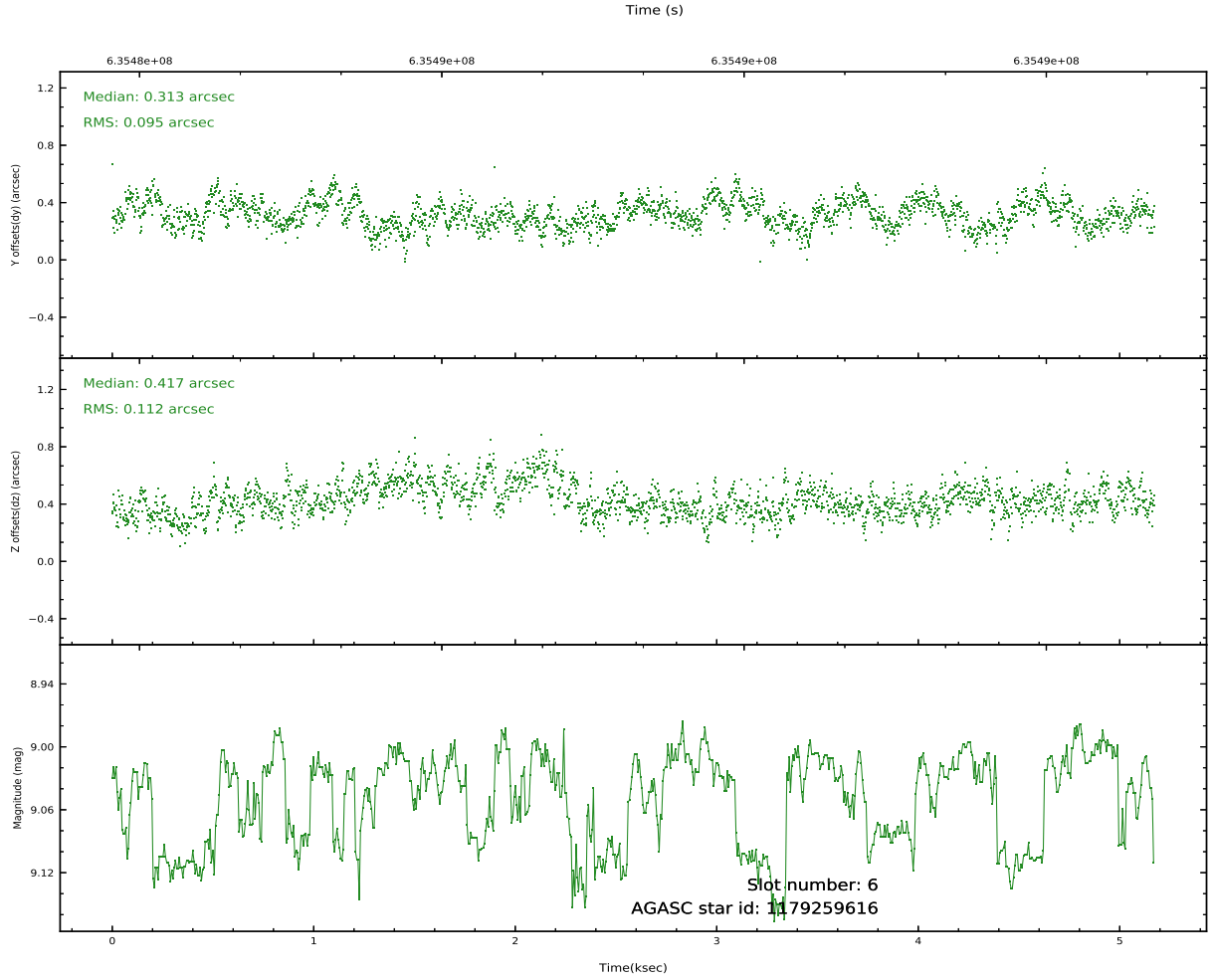
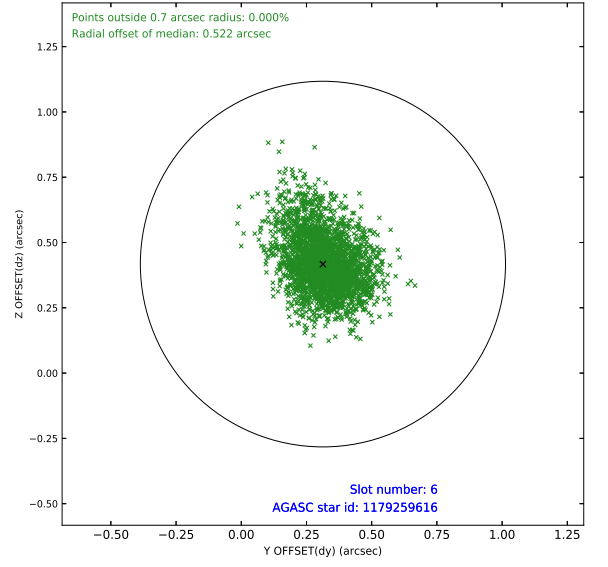
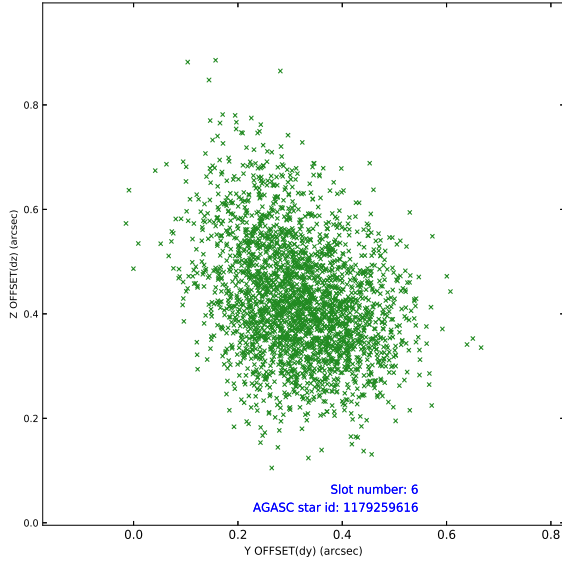
2.4.2 Slot 4



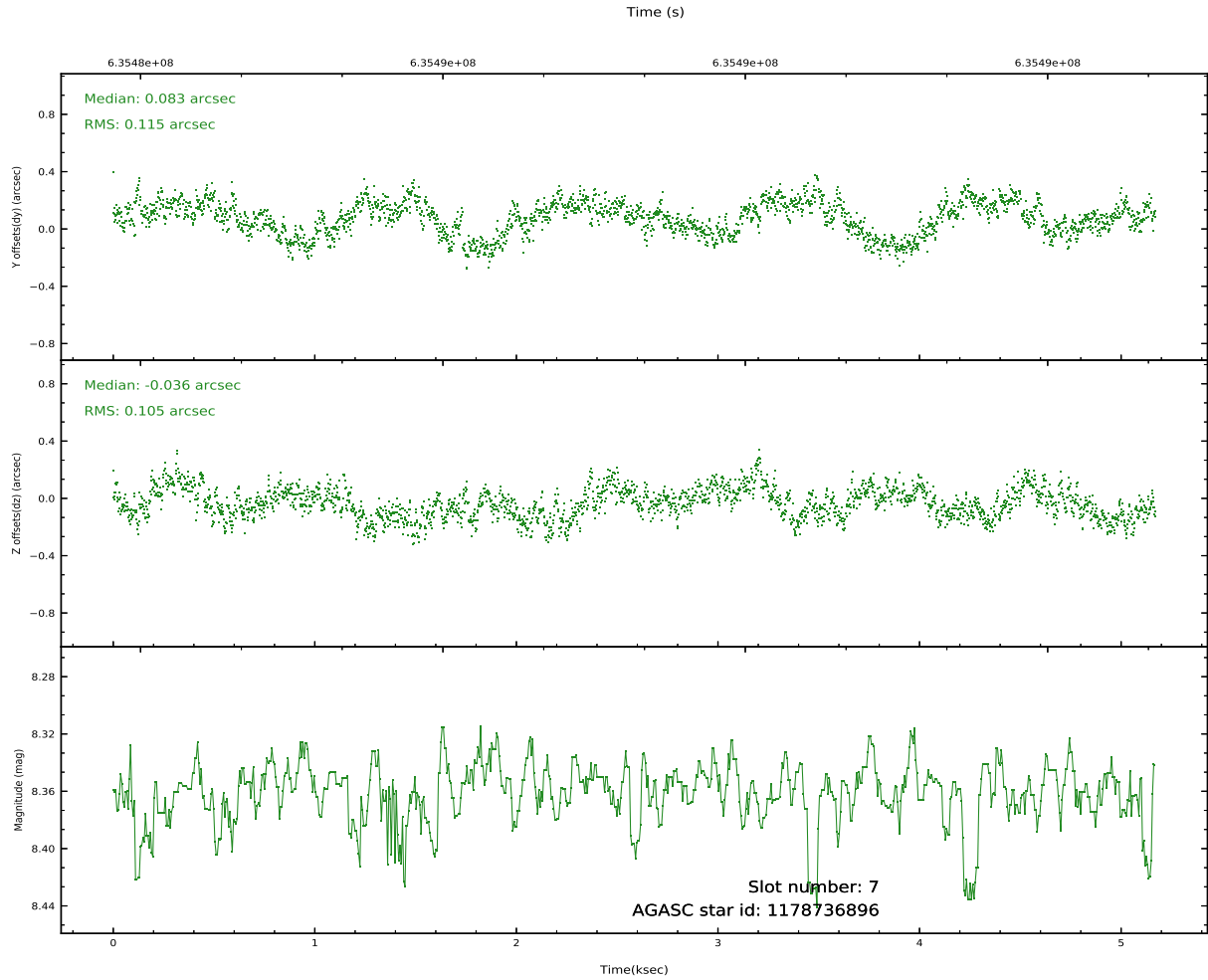
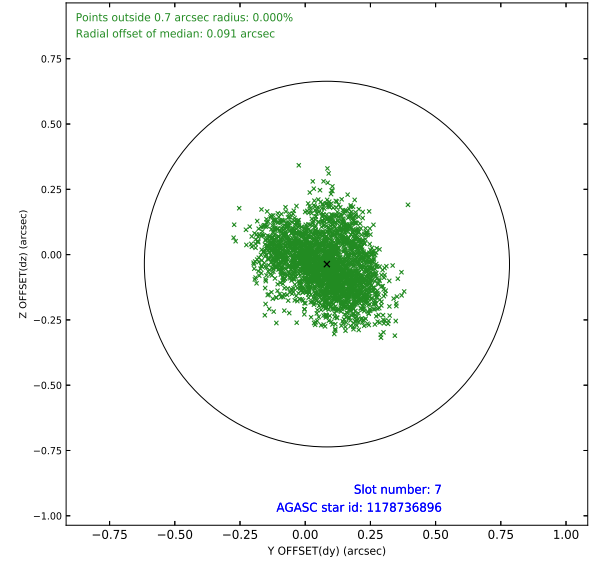
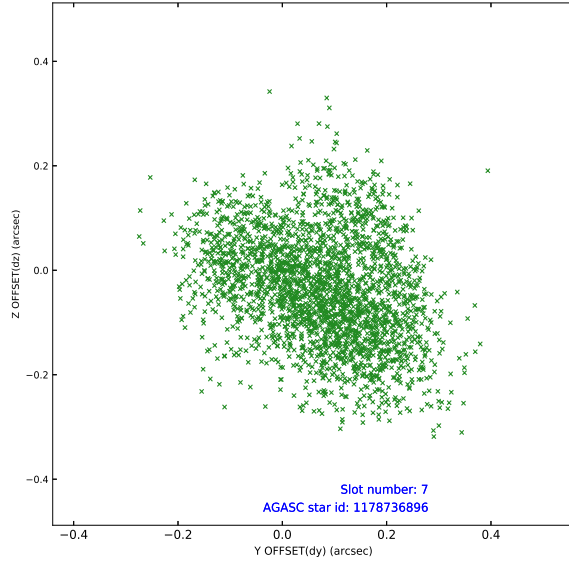
2.4.3 Slot 5



2.4.4 Slot 6

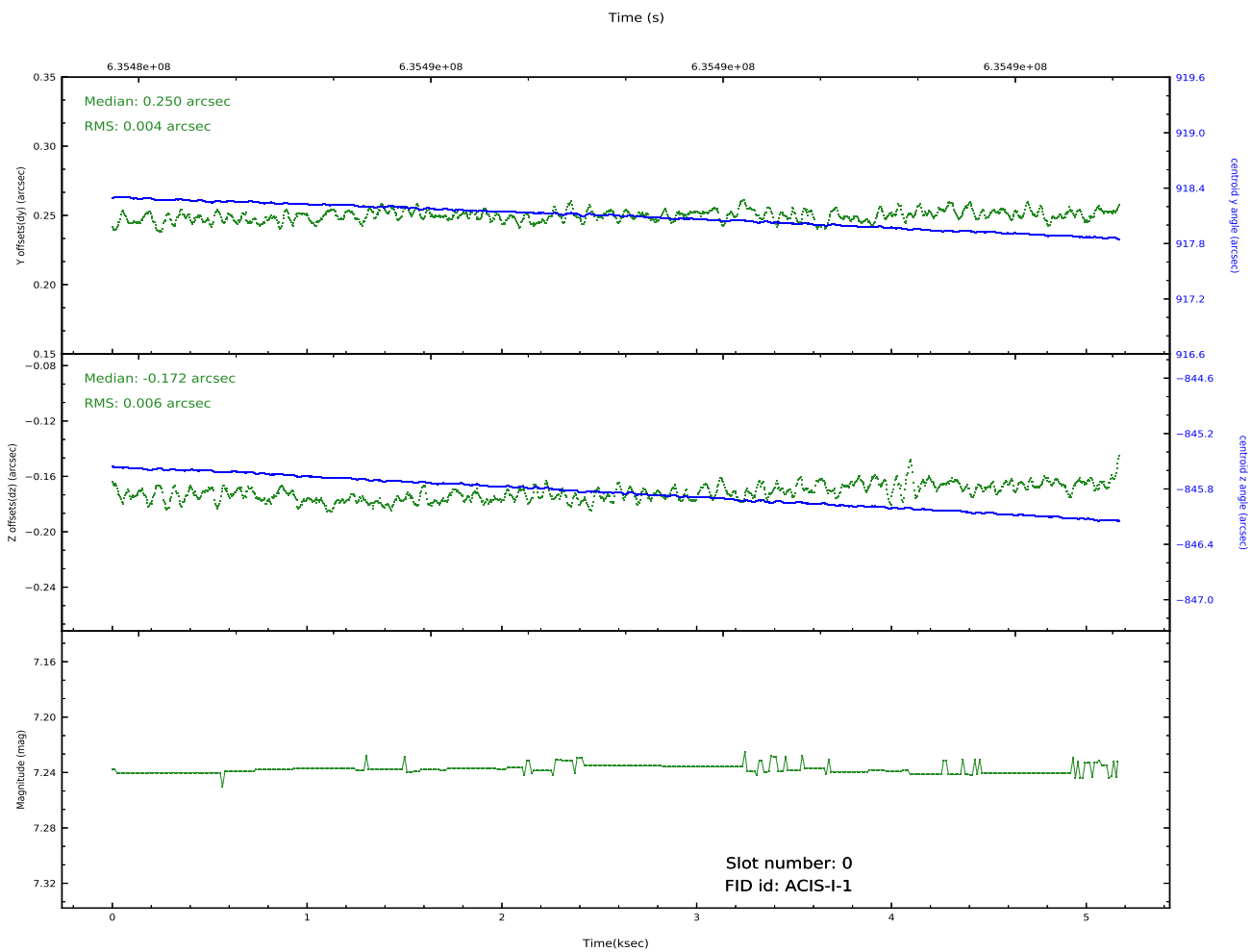
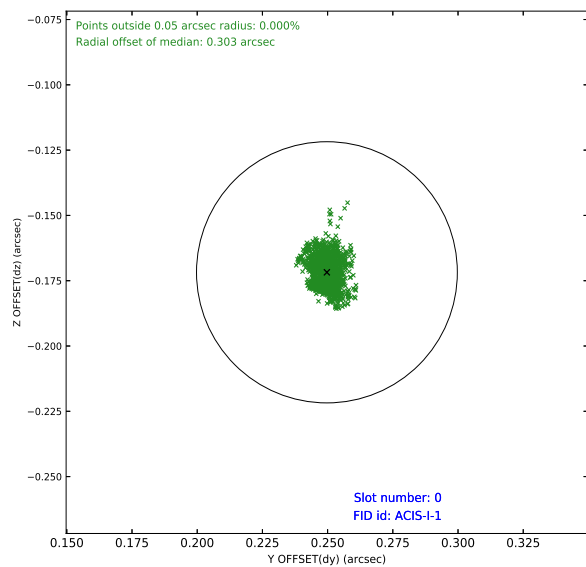
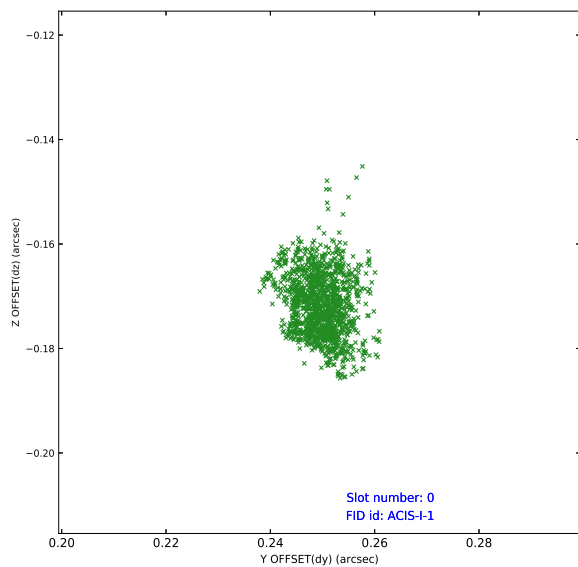


2.4.5 Slot 7

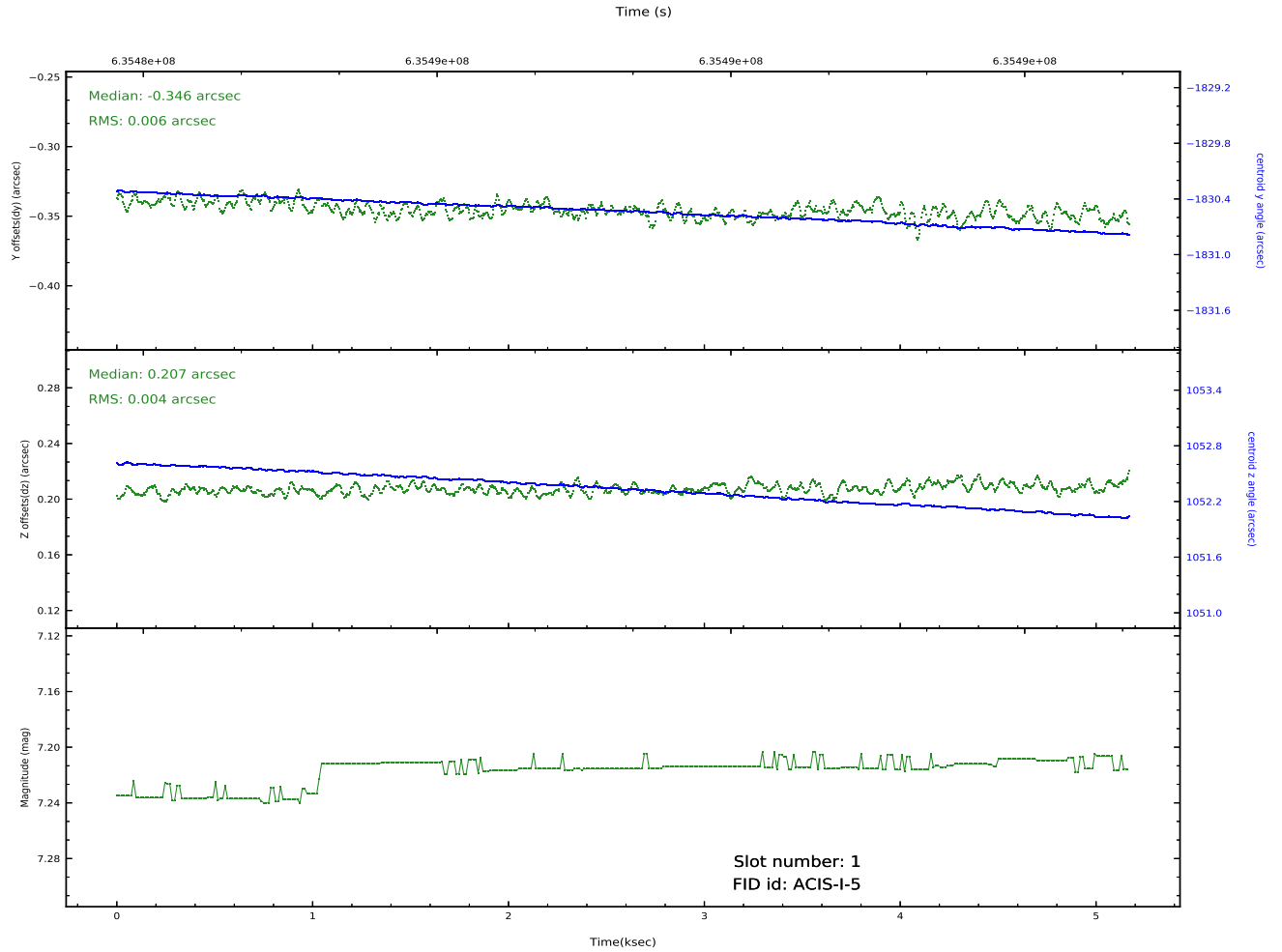
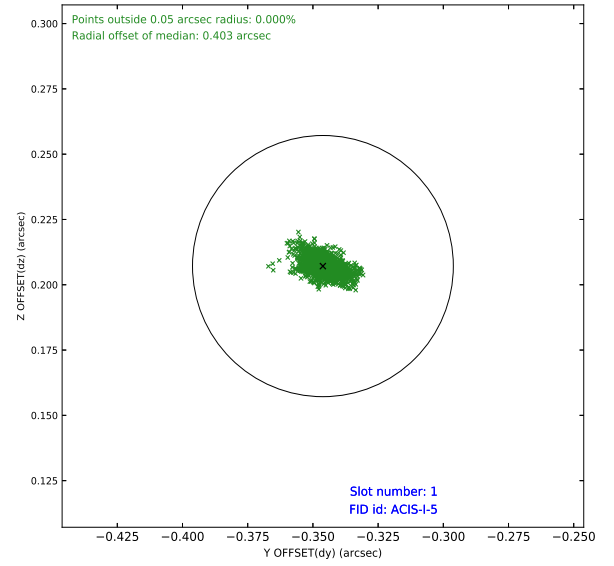
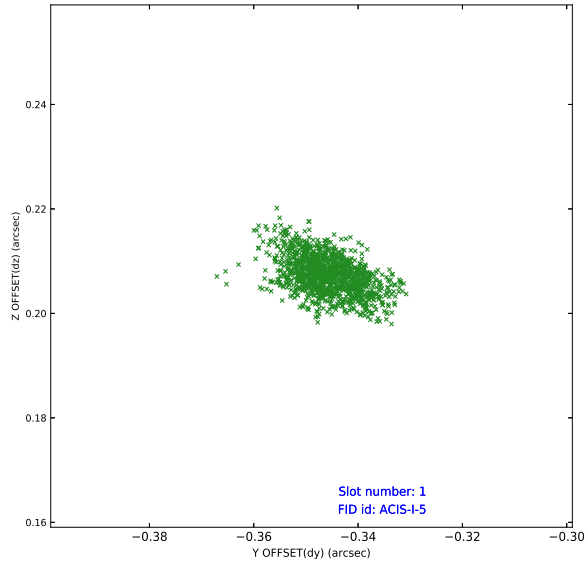


2.5 FID Slots

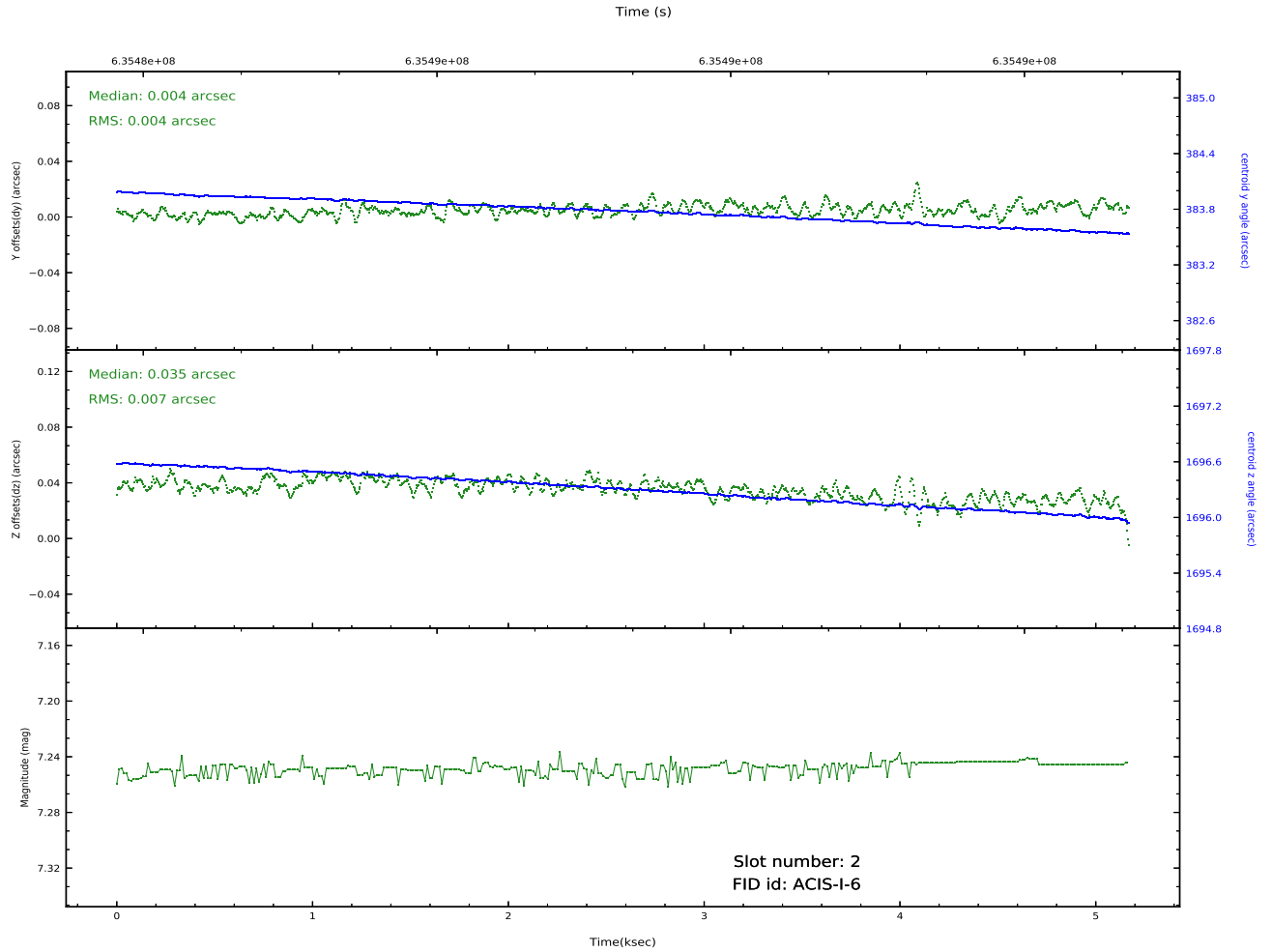
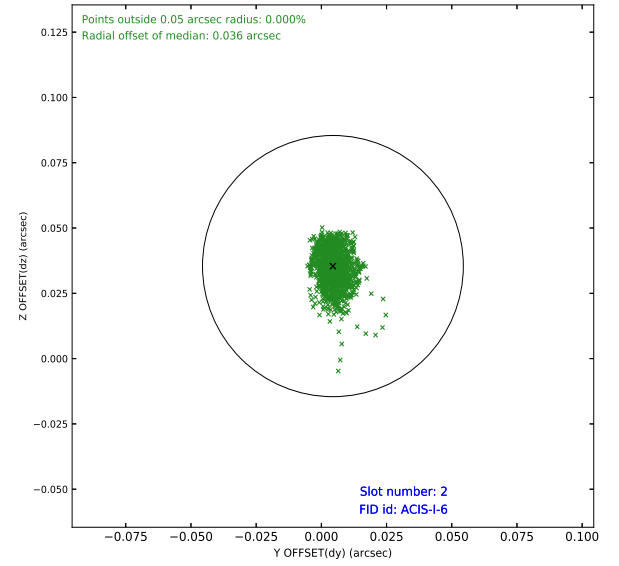
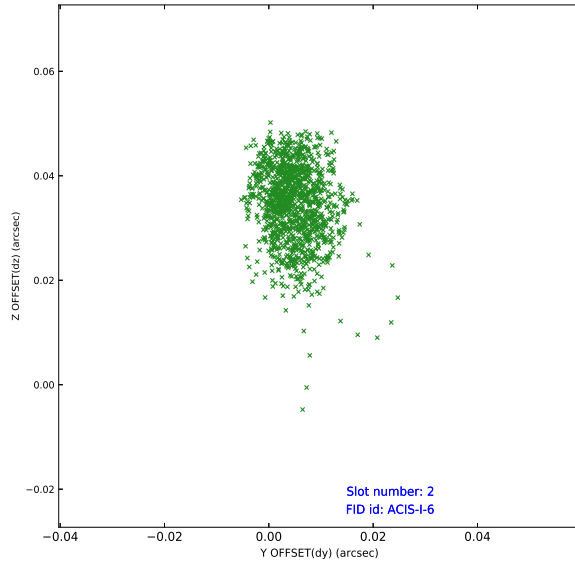
2.5.1 Slot 0



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)	2020.10.26
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.9504000737667

A.2 Comments