

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 21060 - L2 Version 2
Chandra X-Ray Center

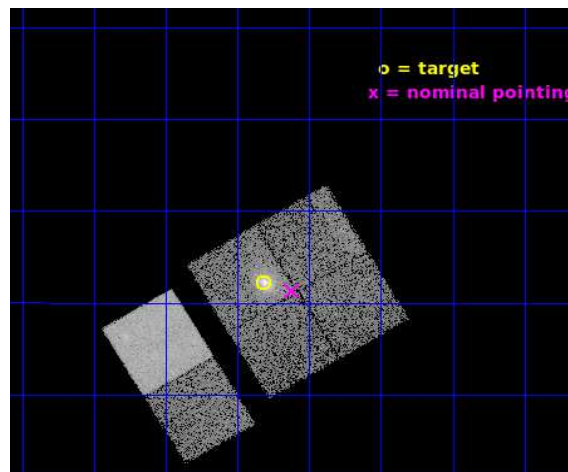
L2 Processing Date : Oct 26 2020

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1 Front

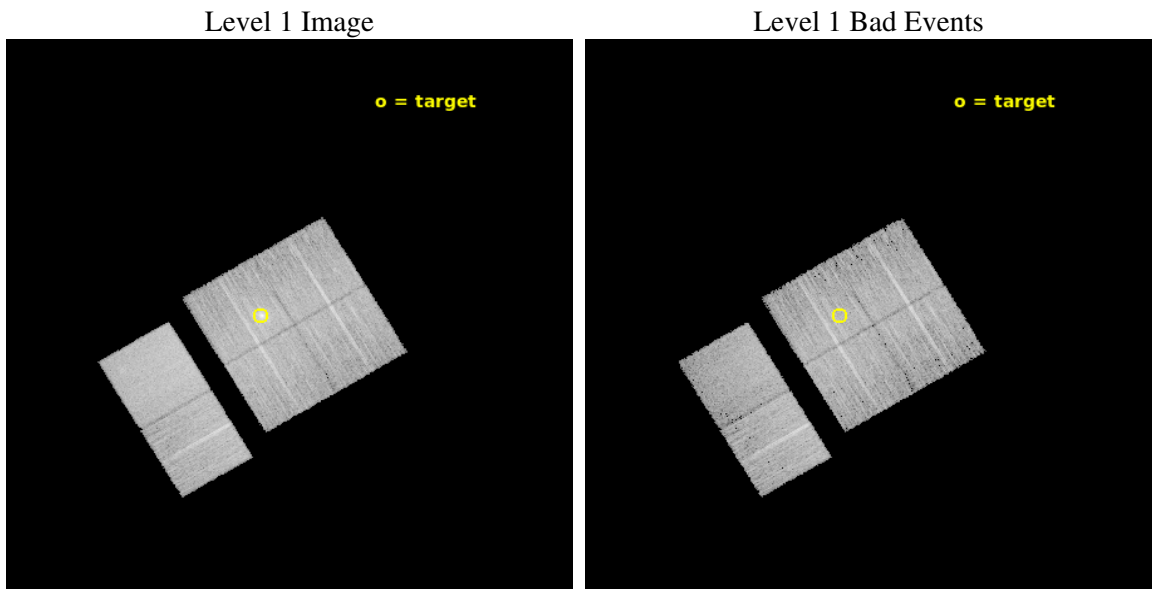
seq_num	801805	Sequence number
obs_id	21060	Observation id
title	Witnessing the culmination of structure formation in the Universe	
observer	Stefano Etori	Principal investigator
object	PSZ2 G217.40+10.88	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	114.579167	Observer's specified target RA [deg]
dec_targ	1.035278	Observer's specified target Dec [deg]
ra_nom	114.53023001627	Nominal RA [deg]
dec_nom	1.0219043712073	Nominal Dec [deg]
roll_nom	239.20333399124	Nominal Roll [deg]
revision	2	Processing version of data
ontime	9955.200148344	Sum of GTIs [s]
livetime	9829.1414097638	Livetime [s]
ontime0	9955.200148344	Sum of GTIs [s]
ontime1	9955.200148344	Sum of GTIs [s]
ontime2	9955.200148344	Sum of GTIs [s]
ontime3	9955.200148344	Sum of GTIs [s]
ontime6	9955.200148344	Sum of GTIs [s]
ontime7	9955.200148344	Sum of GTIs [s]
l2events	80766	Number of level 2 events



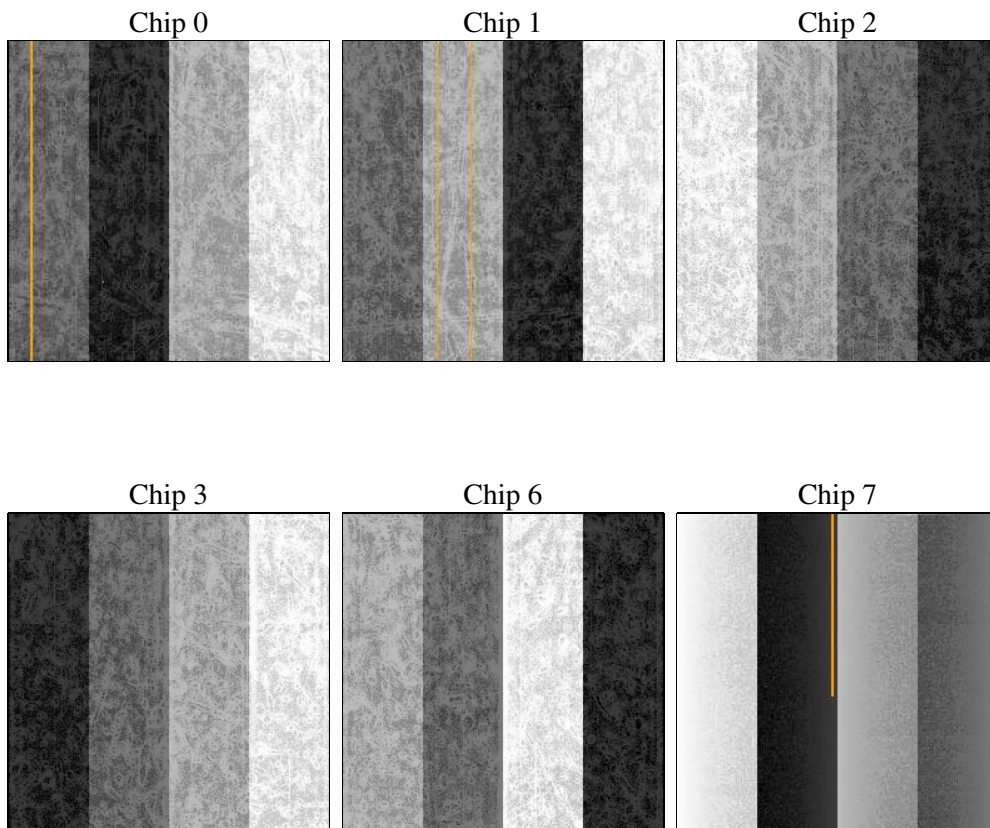
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	9955.200148344	Sum of GTIs [s]
caldsver	4.9.3	 	ontime0	9955.200148344	Sum of GTIs [s]
date	2020-10-26T06:22:24	Date and time of file creation	ontime1	9955.200148344	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	9955.200148344	Sum of GTIs [s]
			ontime3	9955.200148344	Sum of GTIs [s]
			ontime6	9955.200148344	Sum of GTIs [s]
			ontime7	9955.200148344	Sum of GTIs [s]
			l1events	452437	Number of level 1 events

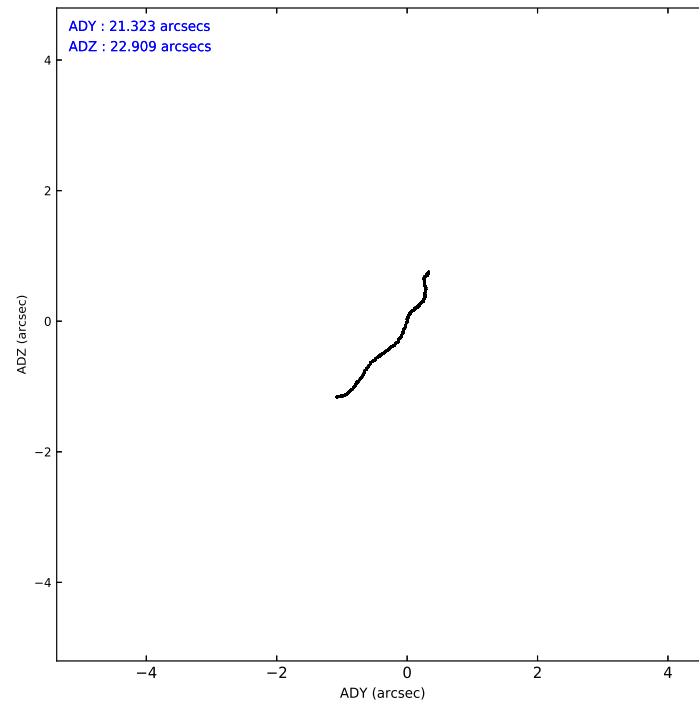
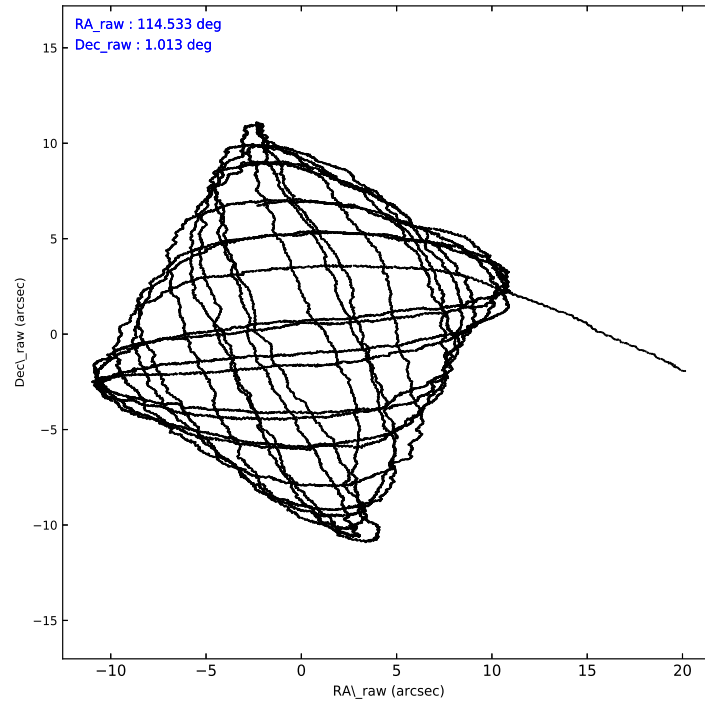
2.1.4 Events

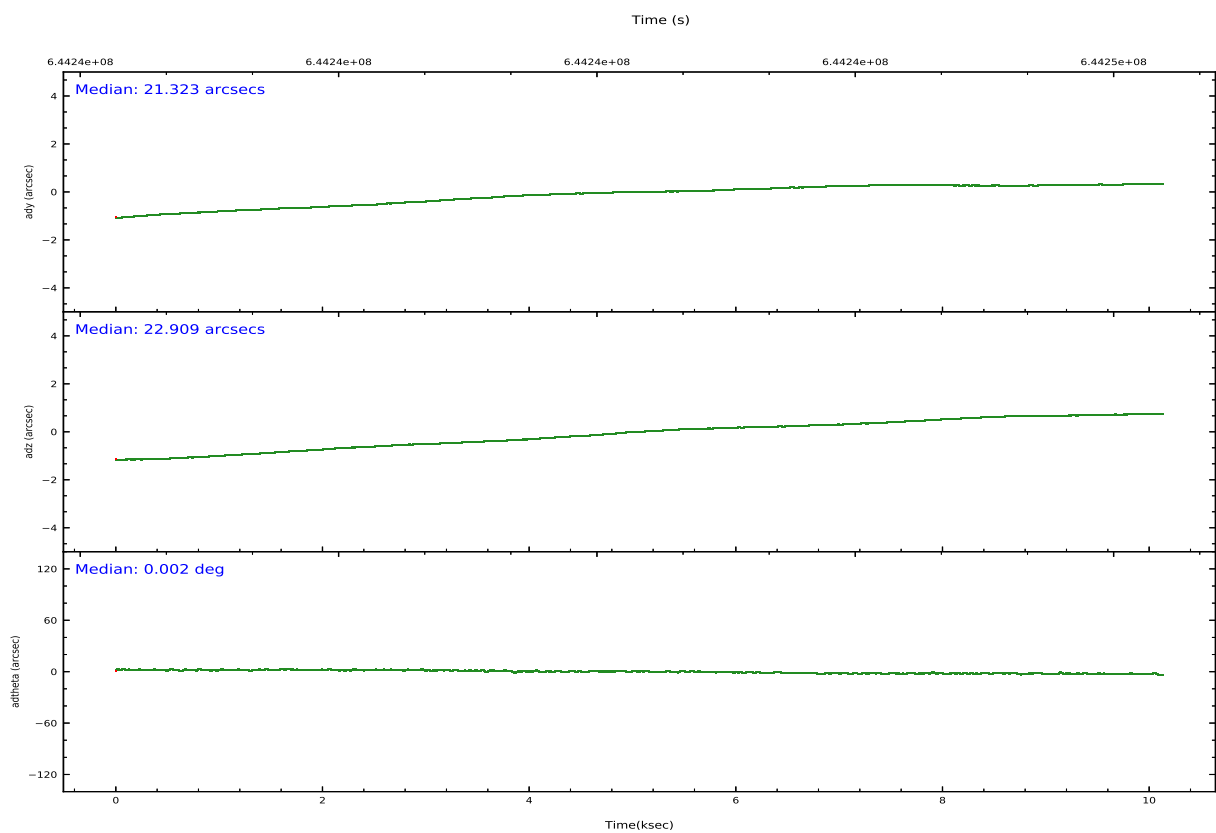
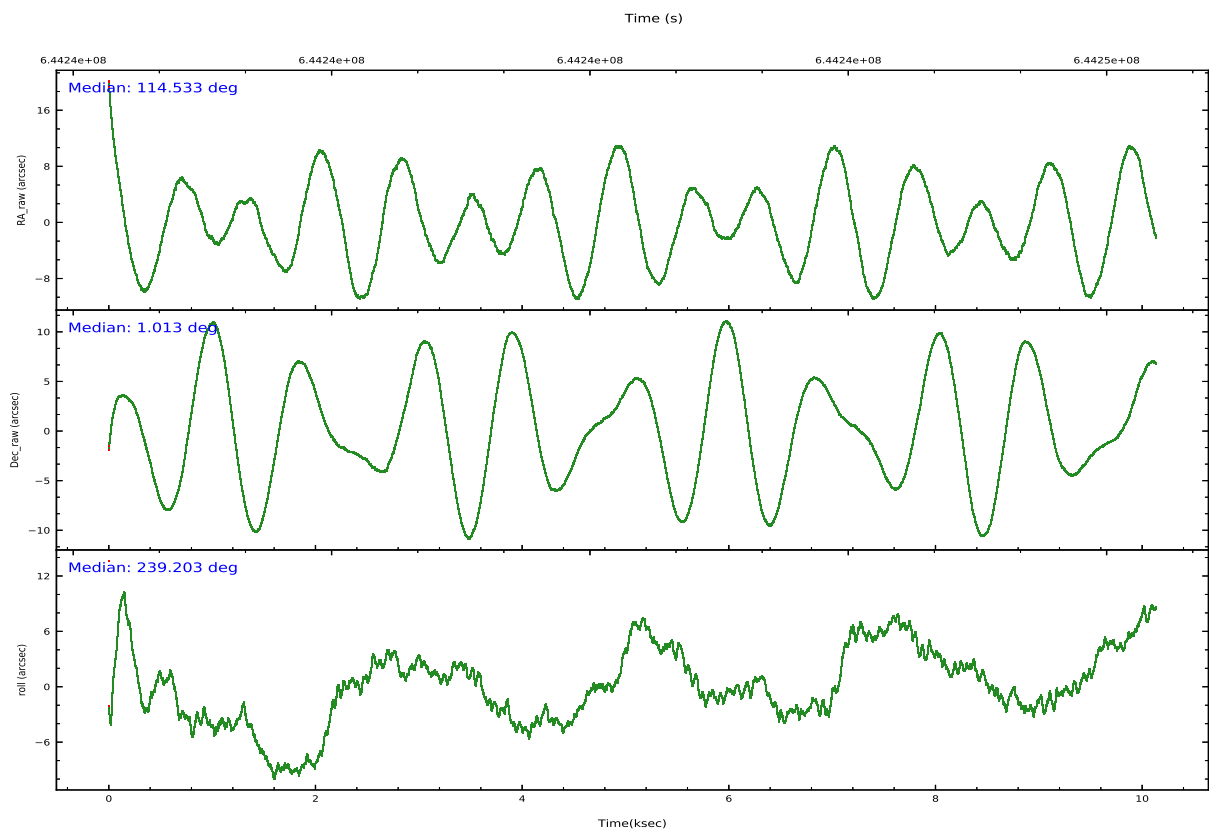
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	66473	67919	70842	77328	75913	93962	grade 0 events	2755	3265	2824	7641	2773	3570
rejected events	58243	58807	62957	63594	67484	52541		4%	4%	3%	9%	3%	3%
rejected %	87%	86%	88%	82%	88%	55%	grade 1 events	32	36	43	70	43	133
								0%	0%	0%	0%	0%	0%
							grade 2 events	2144	2302	2000	2356	1938	8938
								3%	3%	2%	3%	2%	9%
							grade 3 events	832	833	771	981	869	3291
								1%	1%	1%	1%	1%	3%
							grade 4 events	799	848	795	1004	854	3286
								1%	1%	1%	1%	1%	3%
							grade 5 events	3198	3309	2753	3556	3590	9536
								4%	4%	3%	4%	4%	10%
							grade 6 events	1704	1872	1501	1761	1999	22376
								2%	2%	2%	2%	2%	23%
							grade 7 events	55009	55454	60155	59959	63847	42832
								82%	81%	84%	77%	84%	45%

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	114.532993	114.53023001627	CCD I2 on	Y	Y
[deg] Pointing Dec	1.040828	1.0219043712073	CCD I3 on	Y	Y
[deg] Pointing Roll	239.000832	239.20333399124	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)	644237980.184000	644236896.39871	CCD S5 on	N	N
Observation start date	2018-06-01T10:58:31	2018-06-01T10:41:36	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	644247980.184000	644249101.07443	On-chip summing requested	N	N
Observation end date	2018-06-01T13:45:11	2018-06-01T14:05:01	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



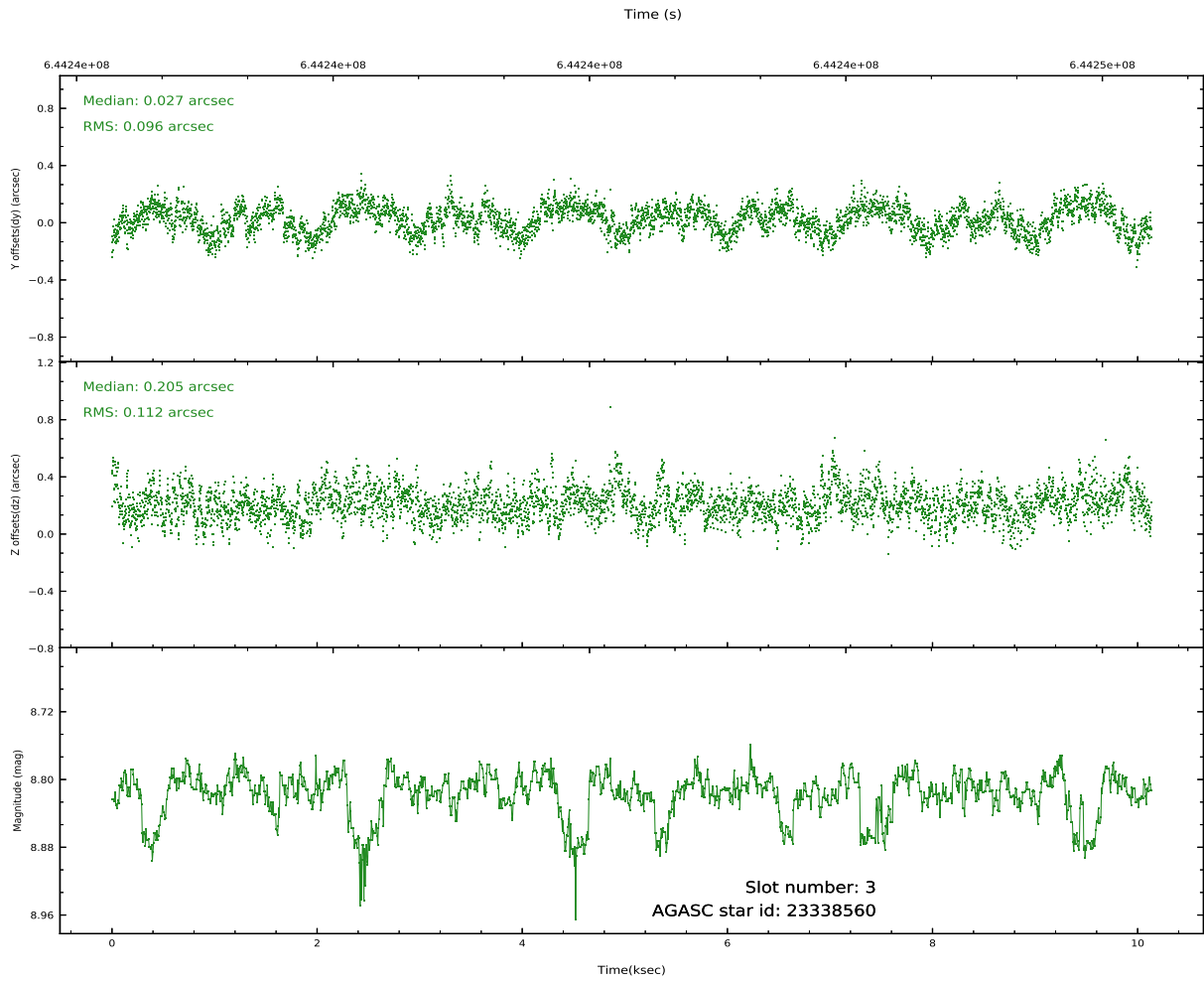
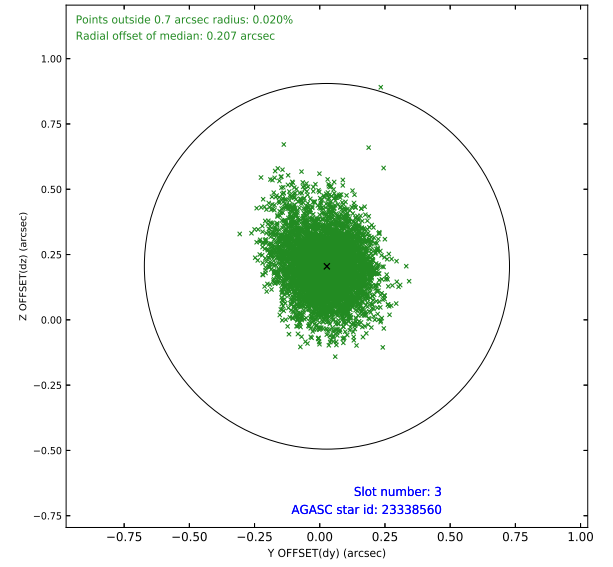
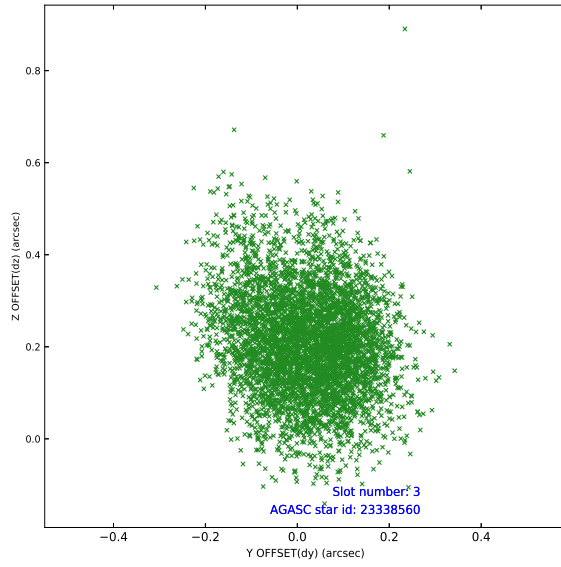


Slot Statistics

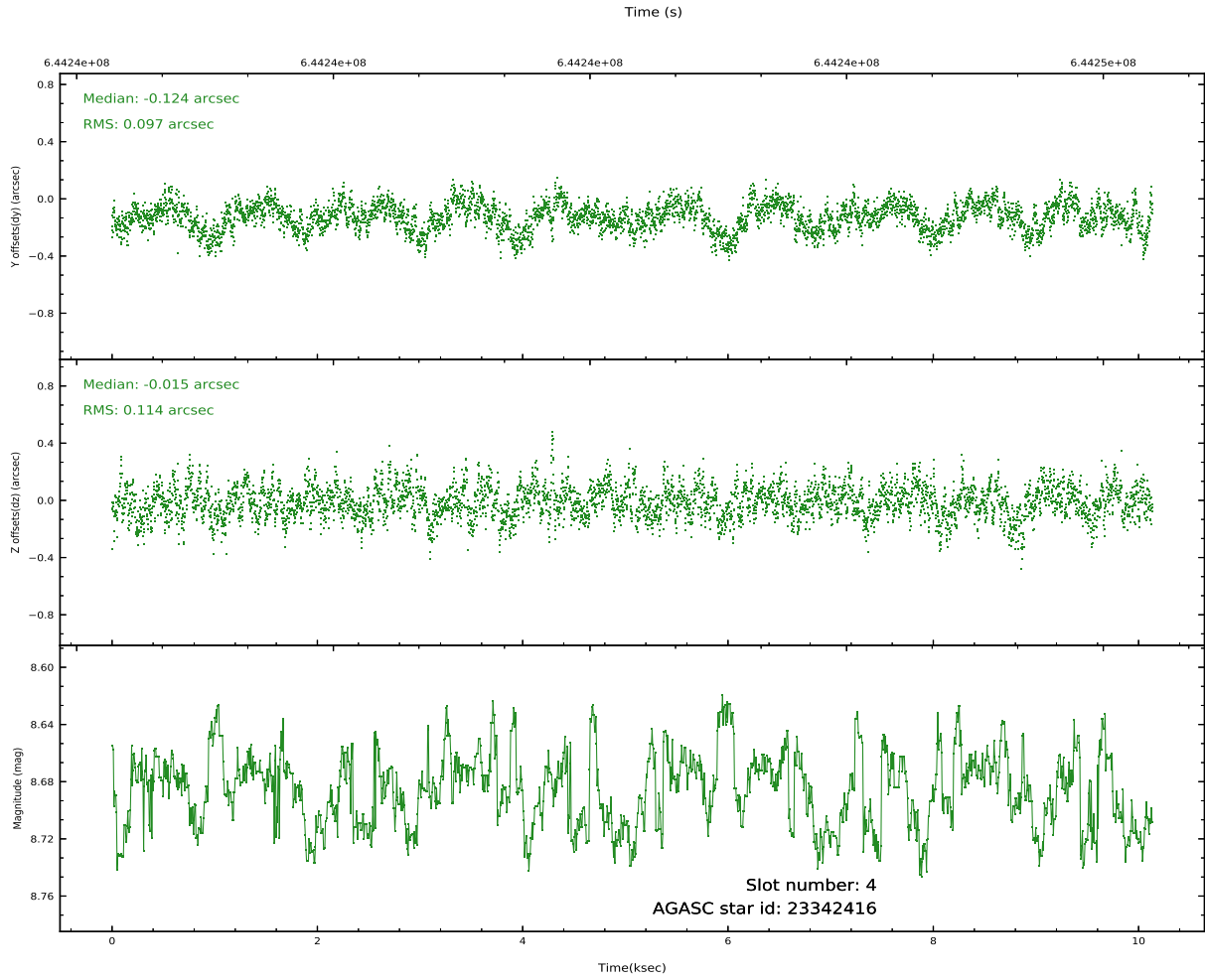
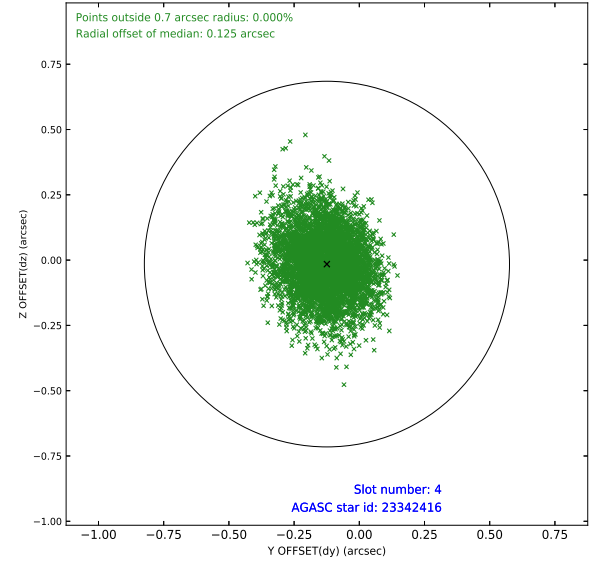
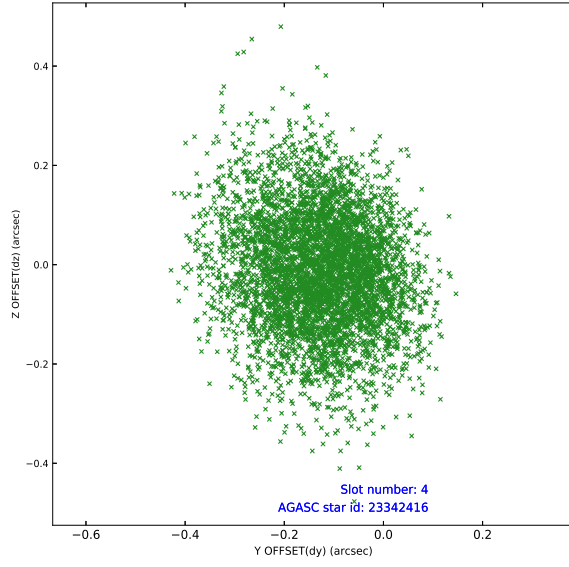
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.14	2473	1.000	0.194	-0.065	0.032	0.067	0.000000	0.000000	918.23	-846
1	FID		ACIS-I-5	7.11	2473	1.000	-0.280	0.186	0.012	0.020	0.000000	0.000000	-1829.93	1050
2	FID		ACIS-I-6	7.15	2472	1.000	-0.004	-0.049	0.021	0.060	0.000000	0.000000	383.19	1695
3	GUIDE	used	23338560	8.81	4939	1.000	0.027	0.205	0.155	0.256	114.174158	1.550391	-906.39	-2048
4	GUIDE	used	23342416	8.68	4938	1.000	-0.124	-0.015	0.158	0.260	113.903451	1.205744	658.31	-2248
5	GUIDE	used	23348168	8.57	4940	1.000	0.004	-0.019	0.137	0.234	114.089052	0.565912	2289.48	-489
6	GUIDE	used	23474864	8.65	4939	1.000	-0.289	0.156	0.120	0.214	114.733153	0.676327	754.55	1293
7	GUIDE	used	23345008	9.34	4932	1.000	0.377	-0.339	0.247	0.446	113.688363	0.760857	2430.95	-2087

2.4 Star Slots

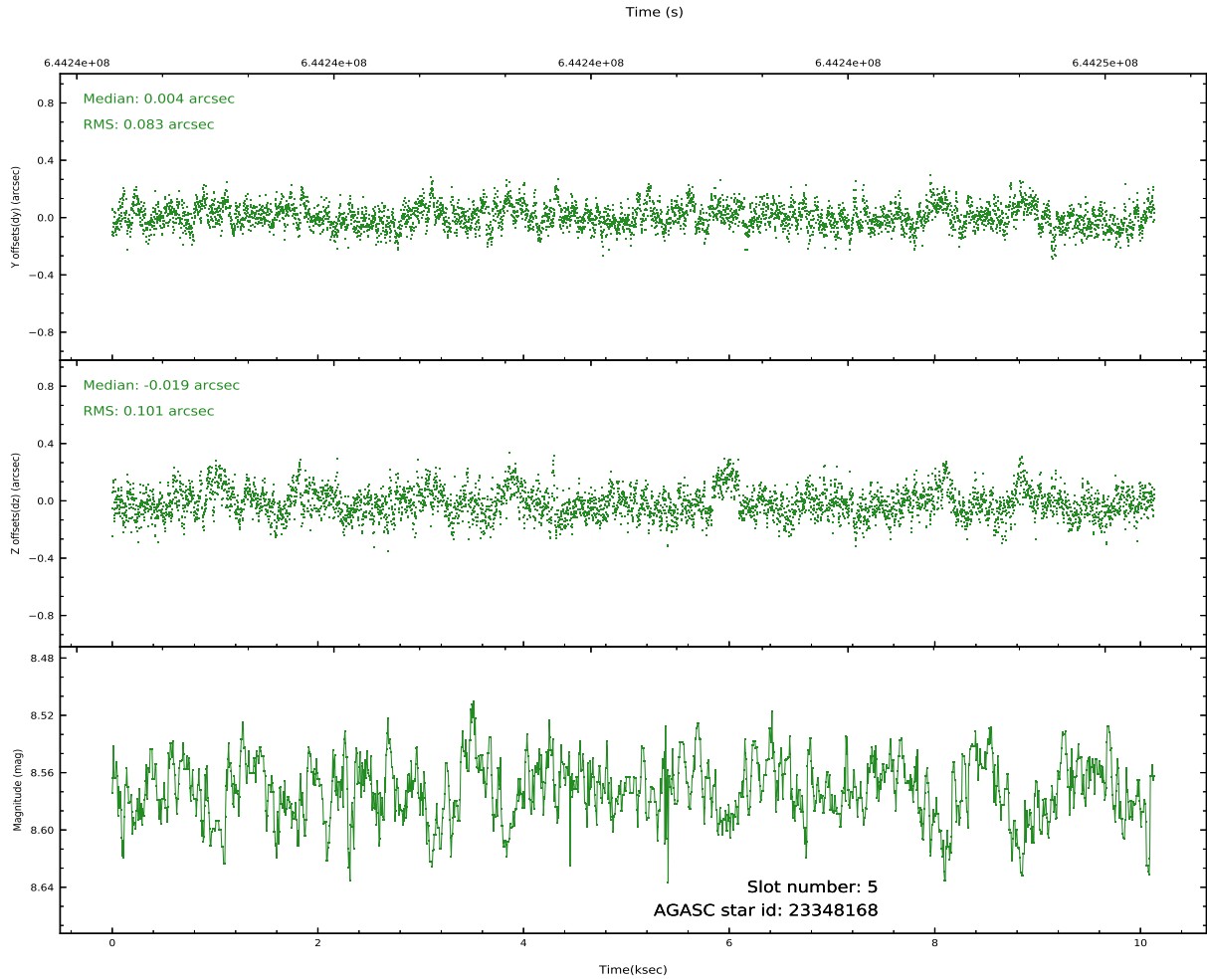
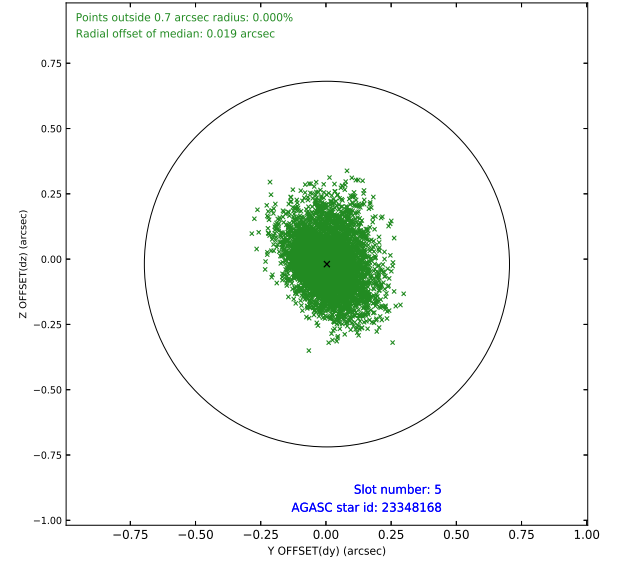
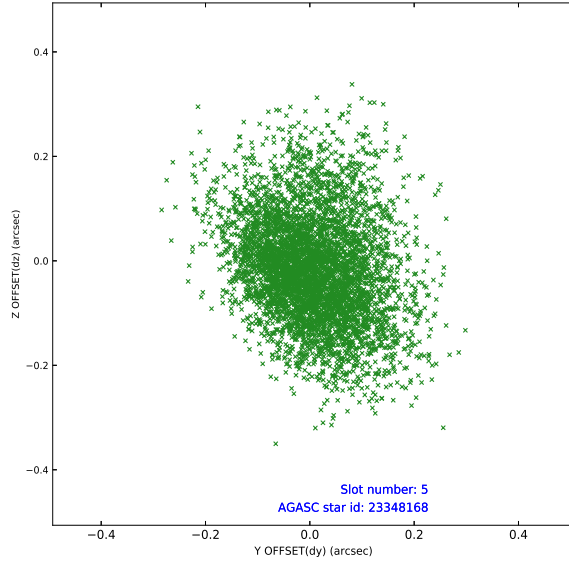
2.4.1 Slot 3



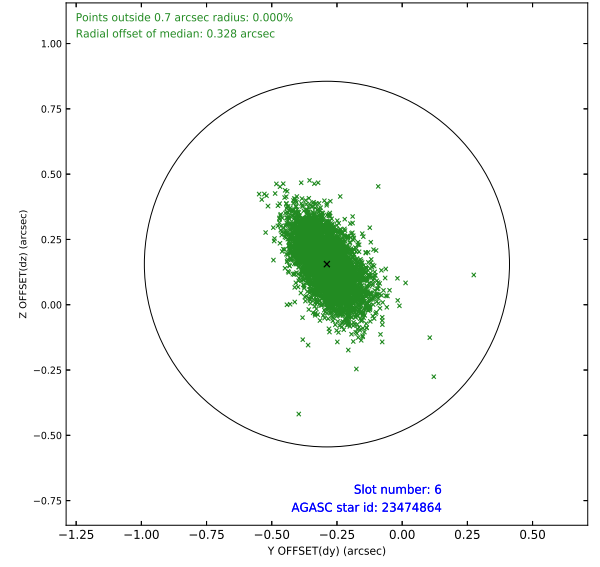
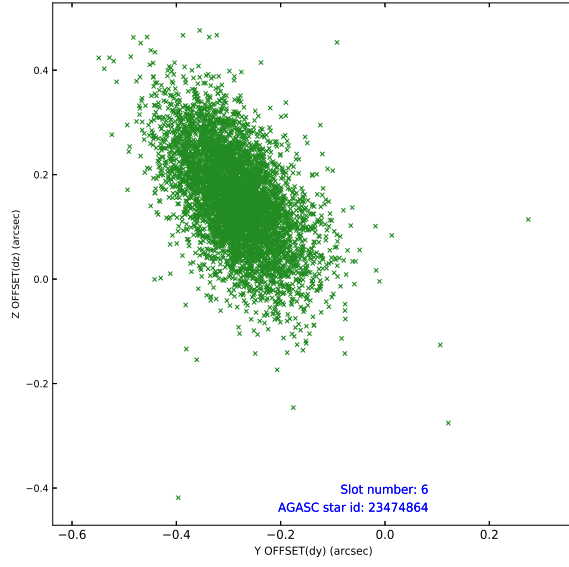
2.4.2 Slot 4



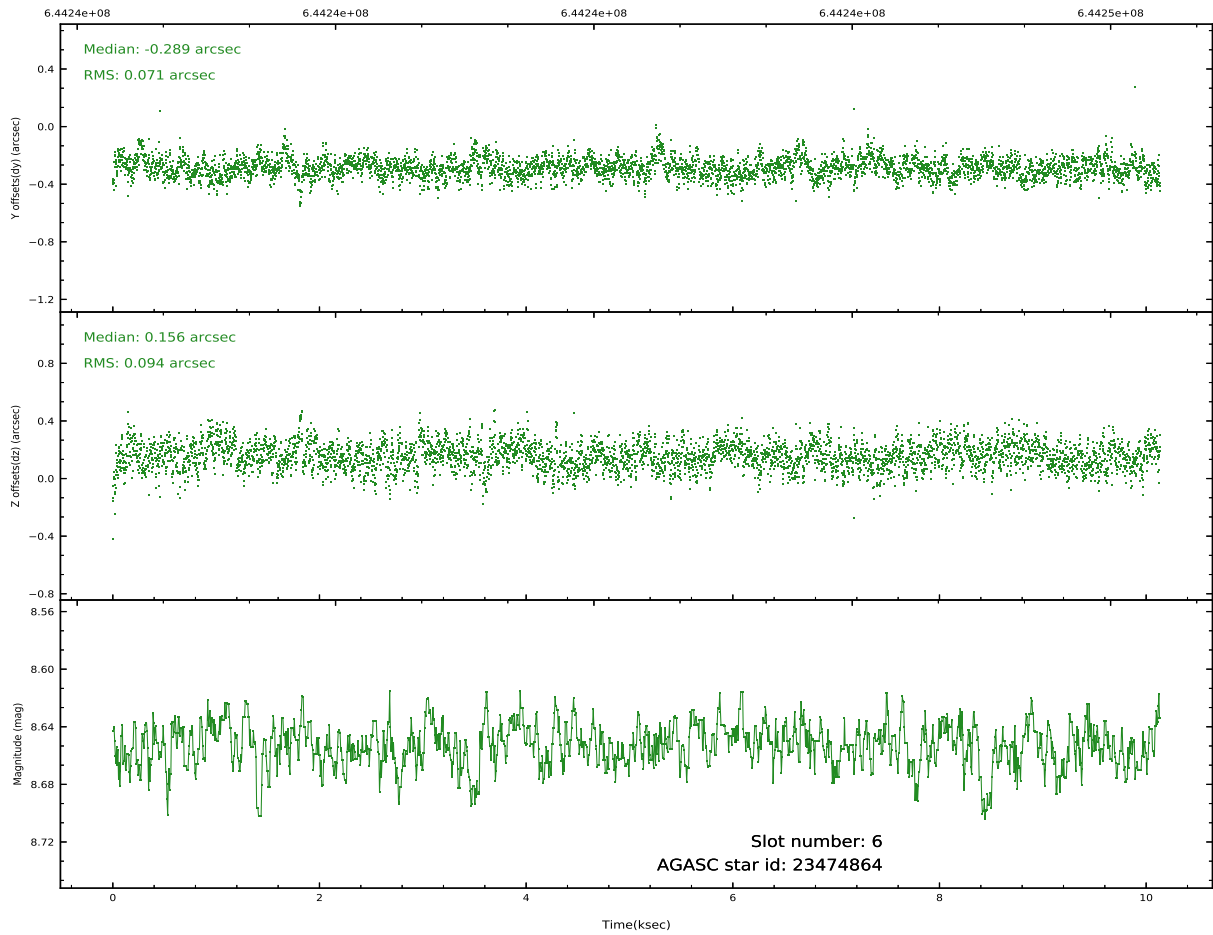
2.4.3 Slot 5



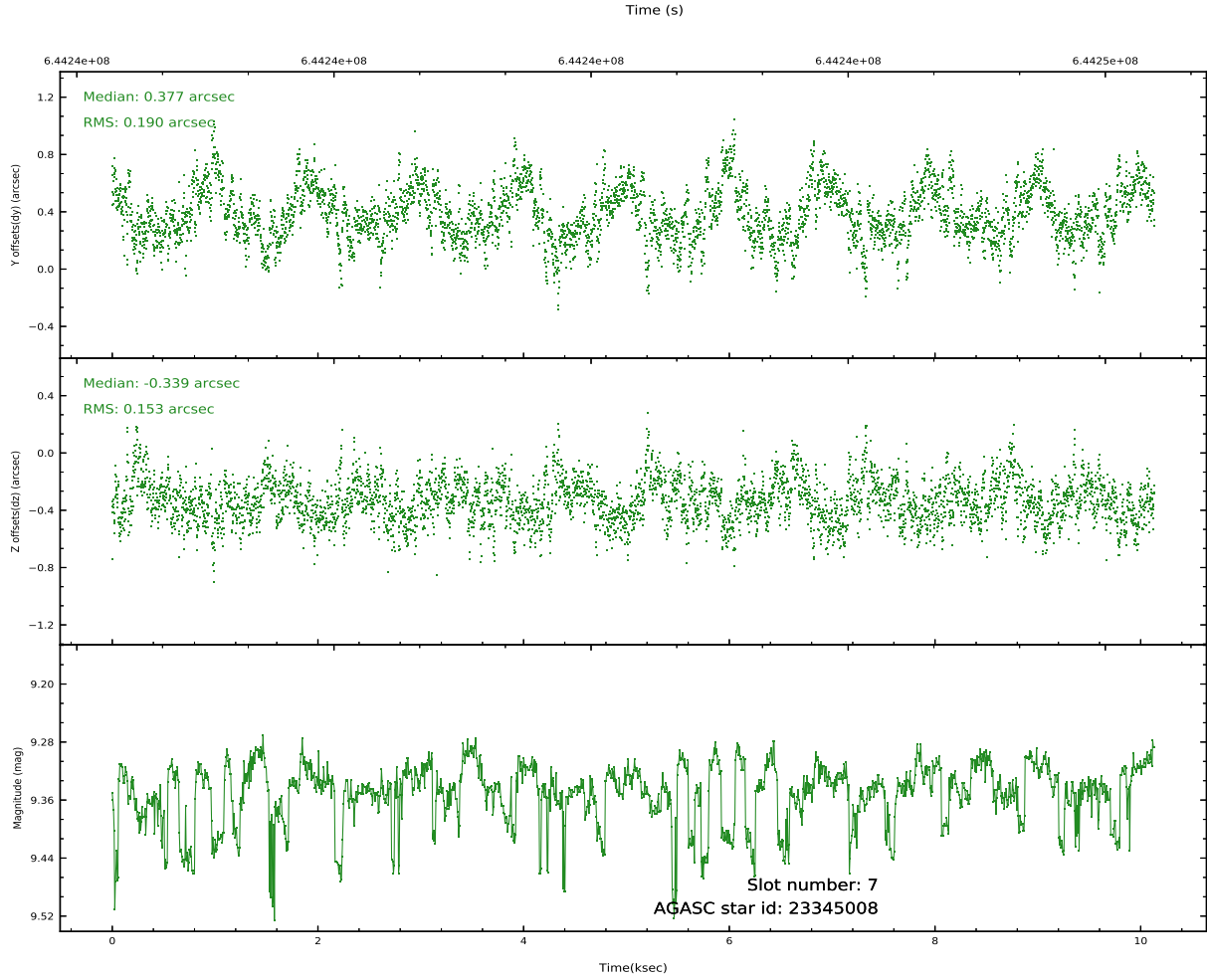
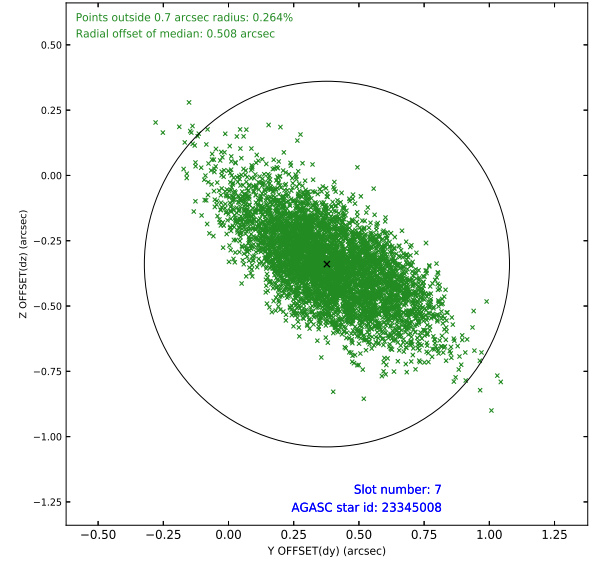
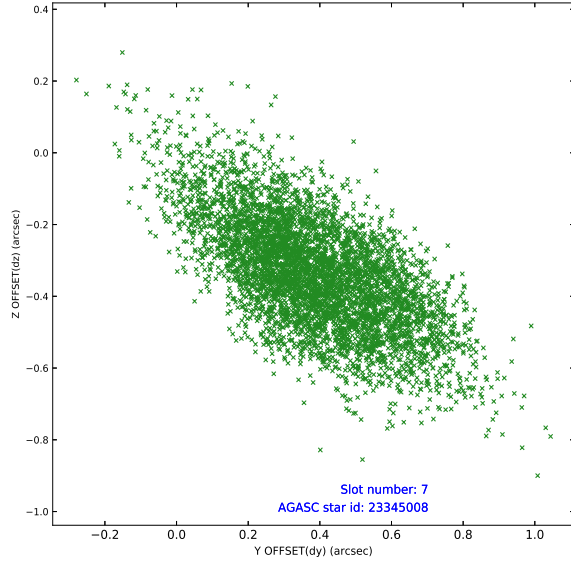
2.4.4 Slot 6



Time (s)

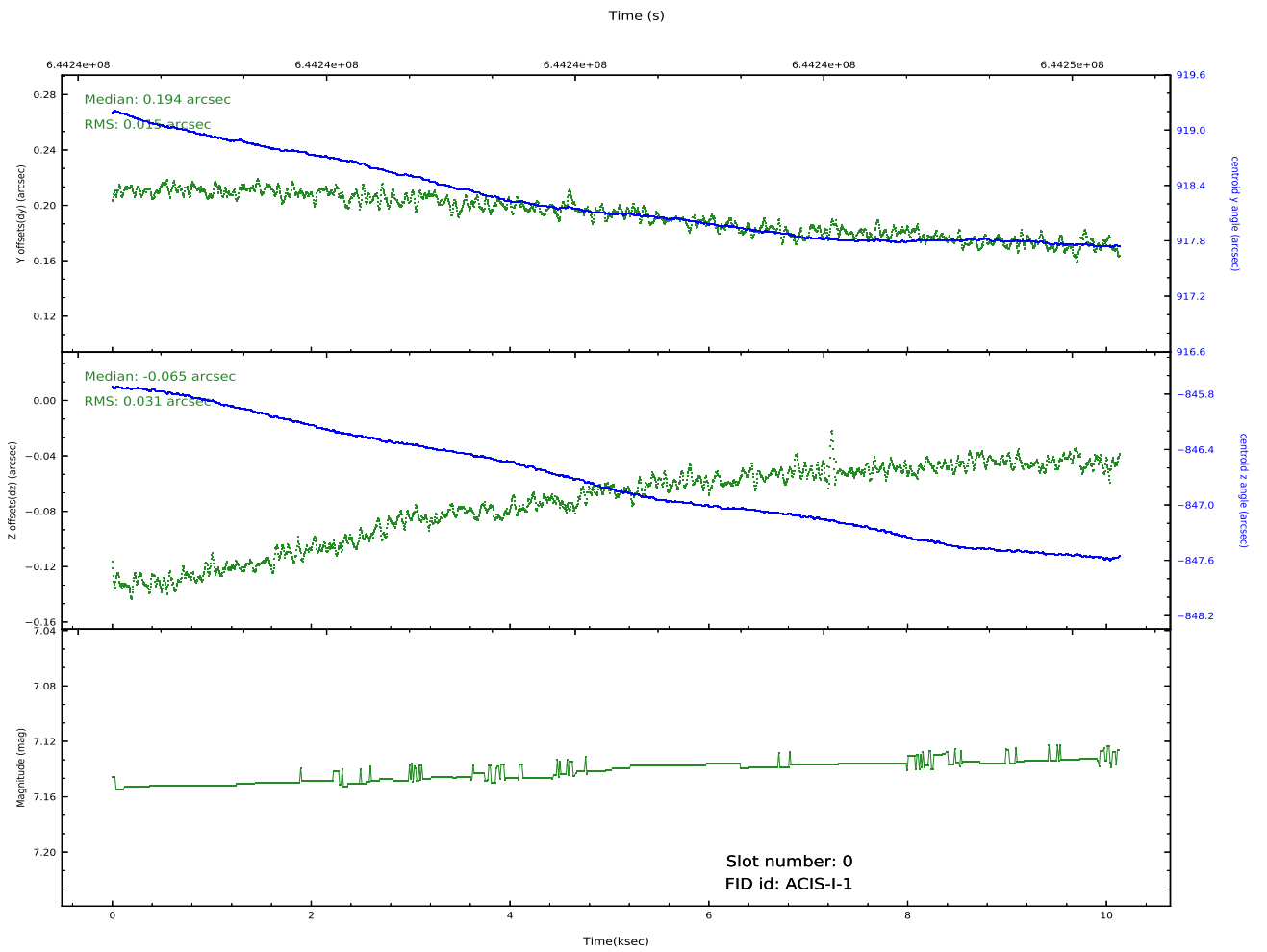
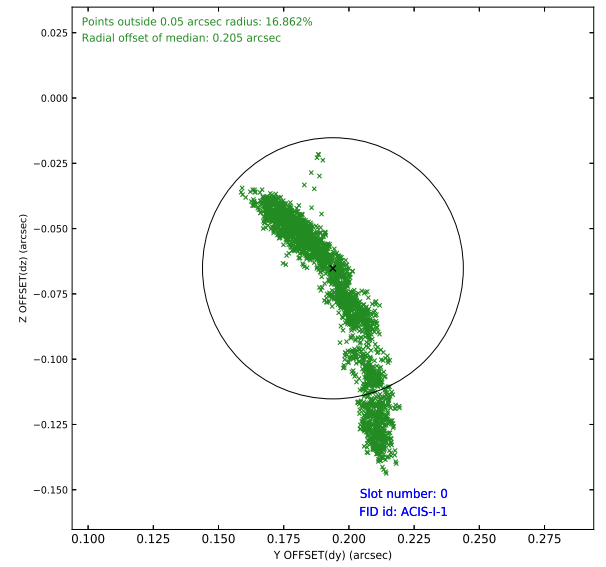
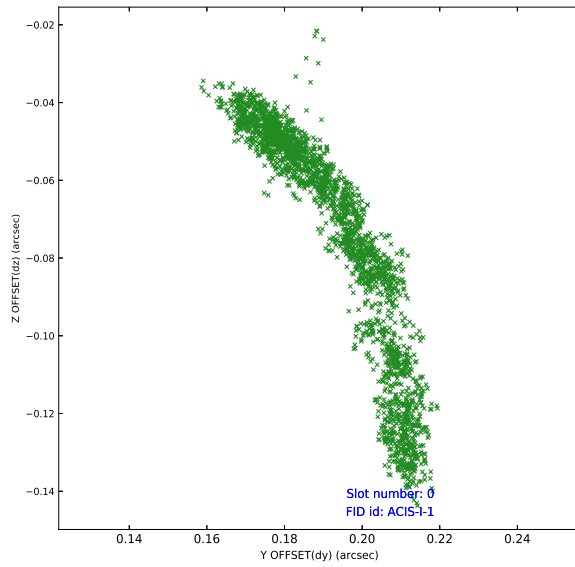


2.4.5 Slot 7

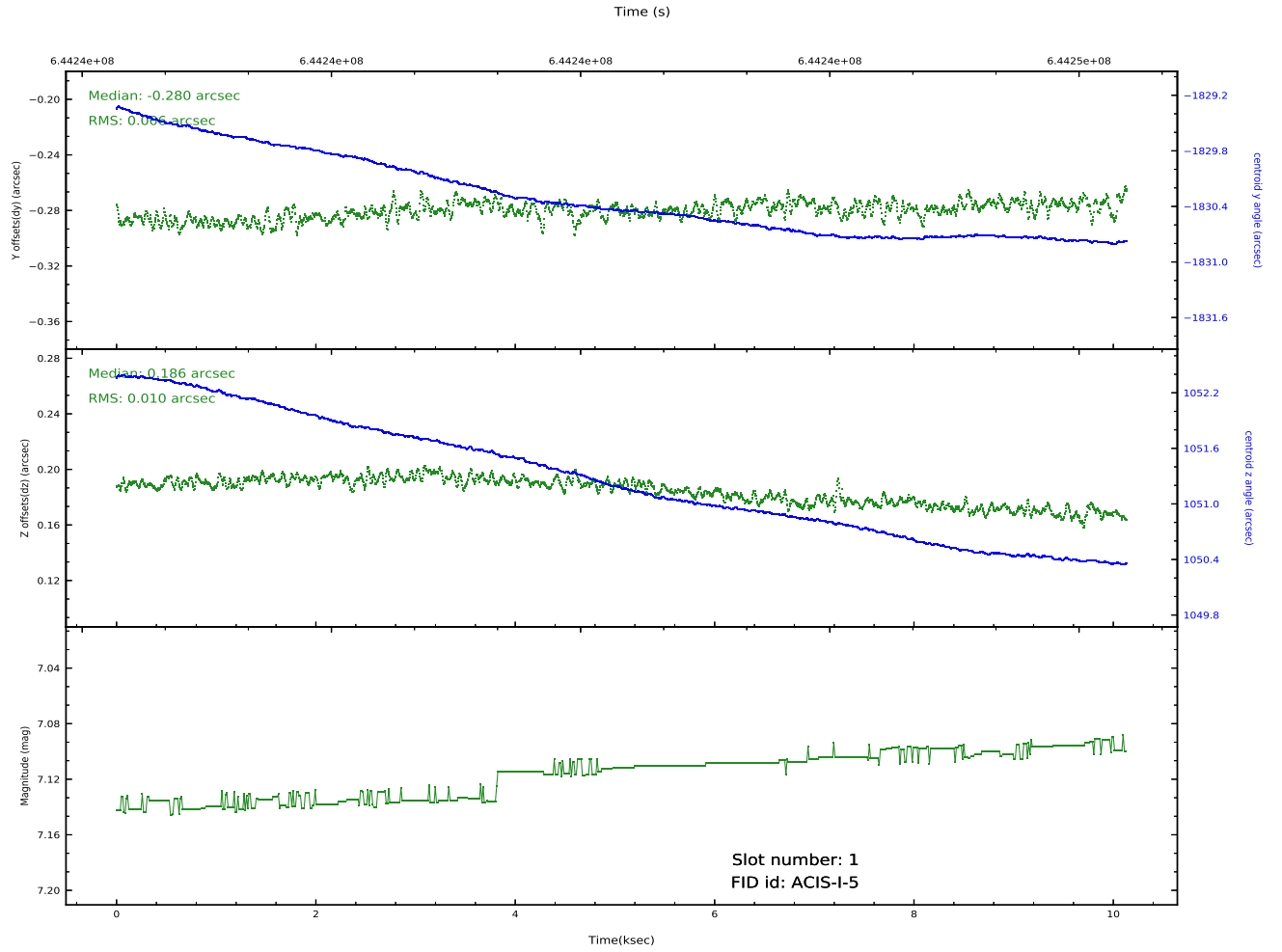
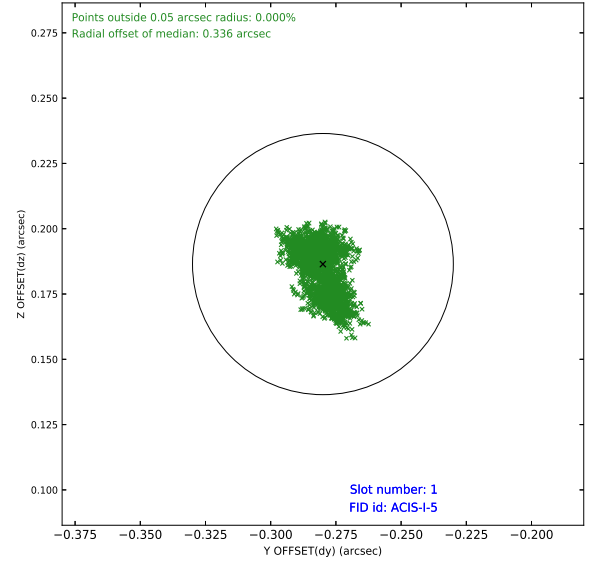
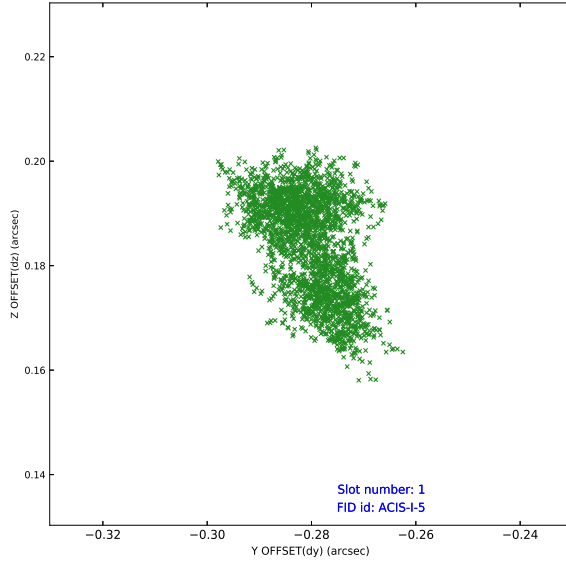


2.5 FID Slots

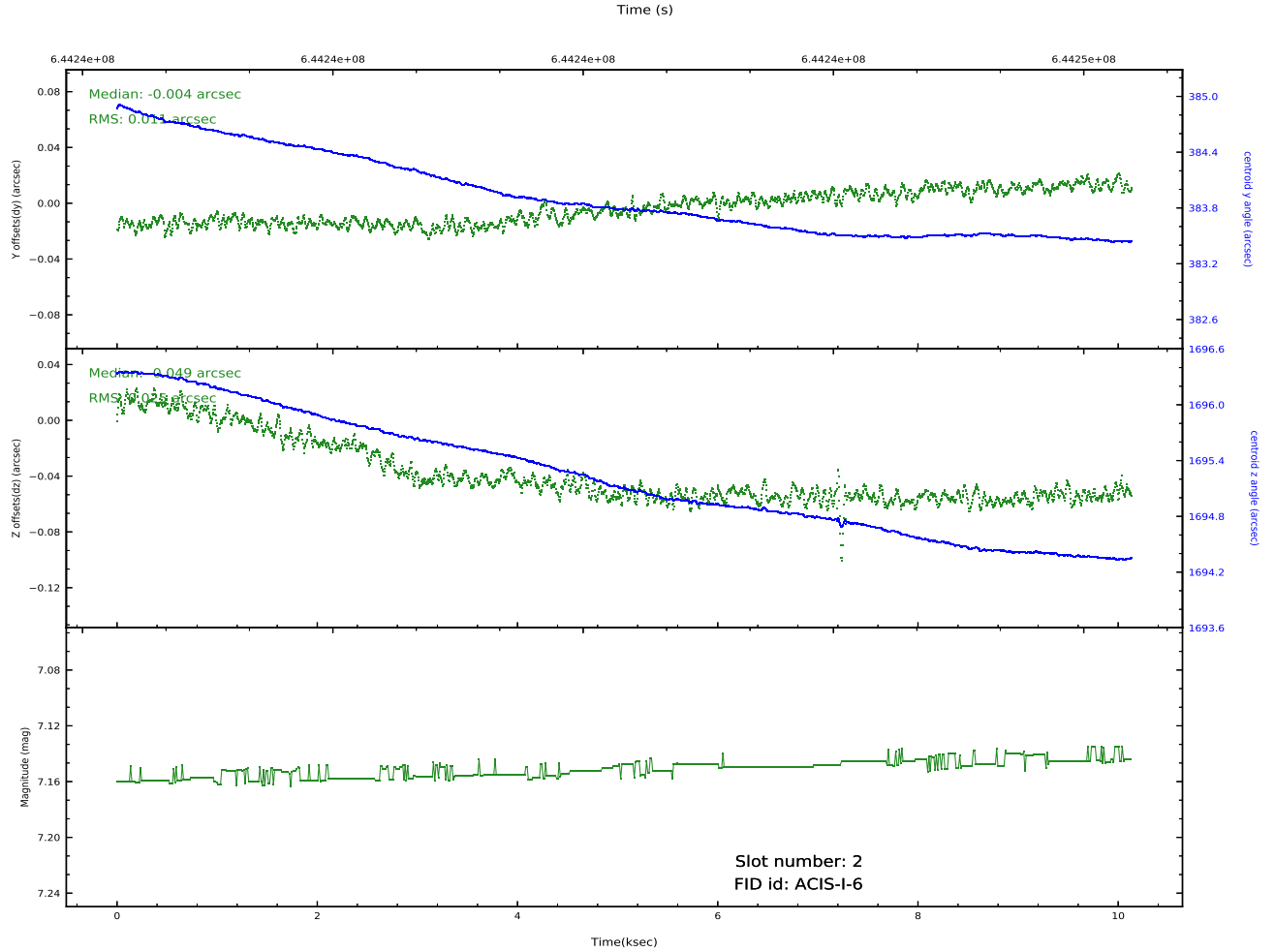
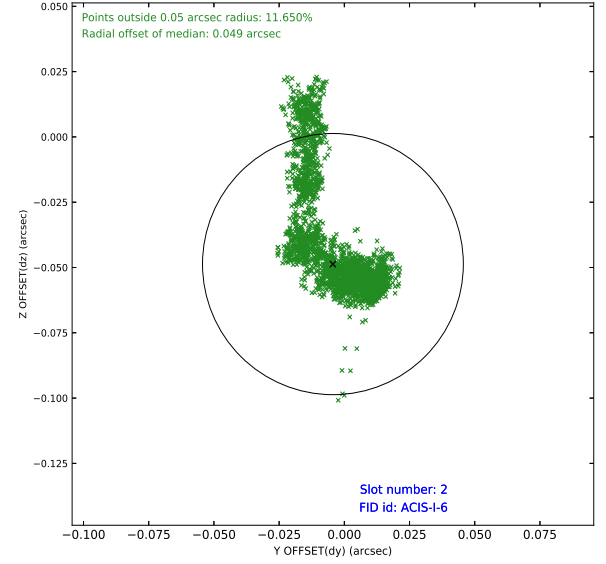
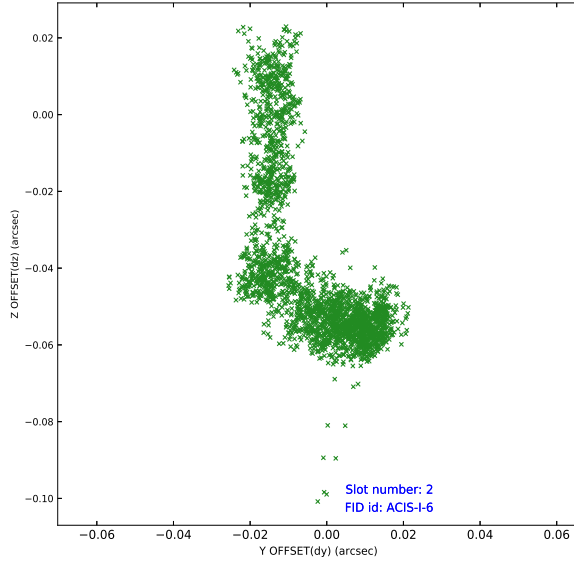
2.5.1 Slot 0



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)	2020.10.30
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	9.955200148344

A.2 Comments

Joint proposal with XMM.