

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20501 - L2 Version 2
Chandra X-Ray Center

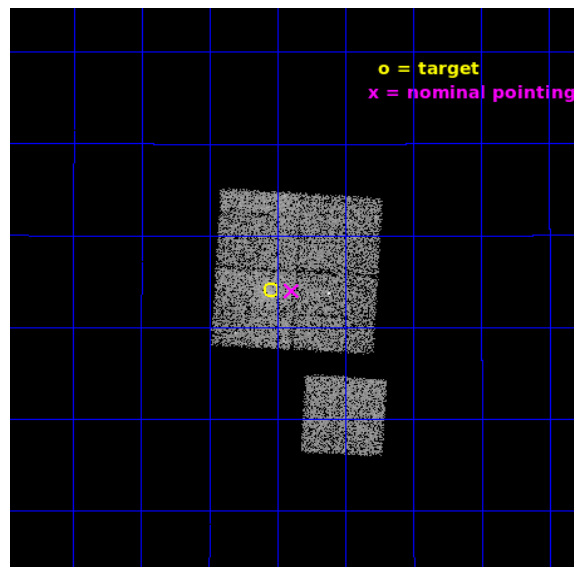
L2 Processing Date : Oct 27 2020

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

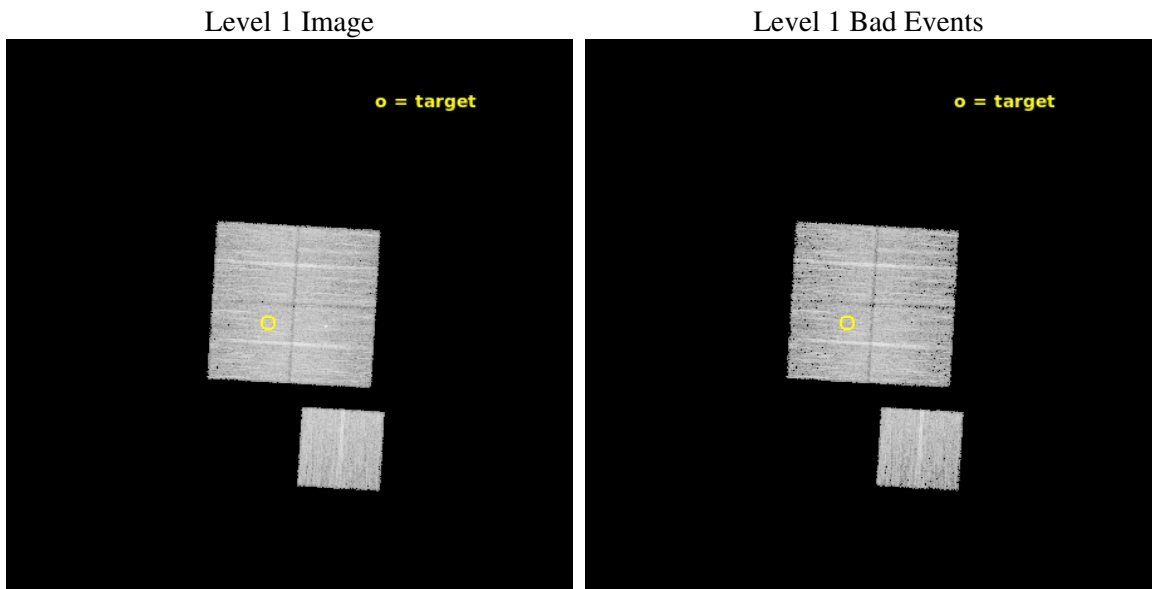
seq_num	801715	Sequence number
obs_id	20501	Observation id
title	Enabling precision cosmology with optically selected galaxy clusters	
observer	Roger Morris	Principal investigator
object	CIG J223533+183352	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	338.886667	Observer's specified target RA [deg]
dec_targ	18.567139	Observer's specified target Dec [deg]
ra_nom	338.84815780824	Nominal RA [deg]
dec_nom	18.566716779796	Nominal Dec [deg]
roll_nom	183.40481497649	Nominal Roll [deg]
revision	2	Processing version of data
ontime	8071.8095248938	Sum of GTIs [s]
livetime	7966.3453910713	Livetime [s]
ontime0	8071.6864049435	Sum of GTIs [s]
ontime1	8071.7274448872	Sum of GTIs [s]
ontime2	8071.7684849501	Sum of GTIs [s]
ontime3	8071.8095248938	Sum of GTIs [s]
ontime6	8071.6453648806	Sum of GTIs [s]
l2events	30362	Number of level 2 events



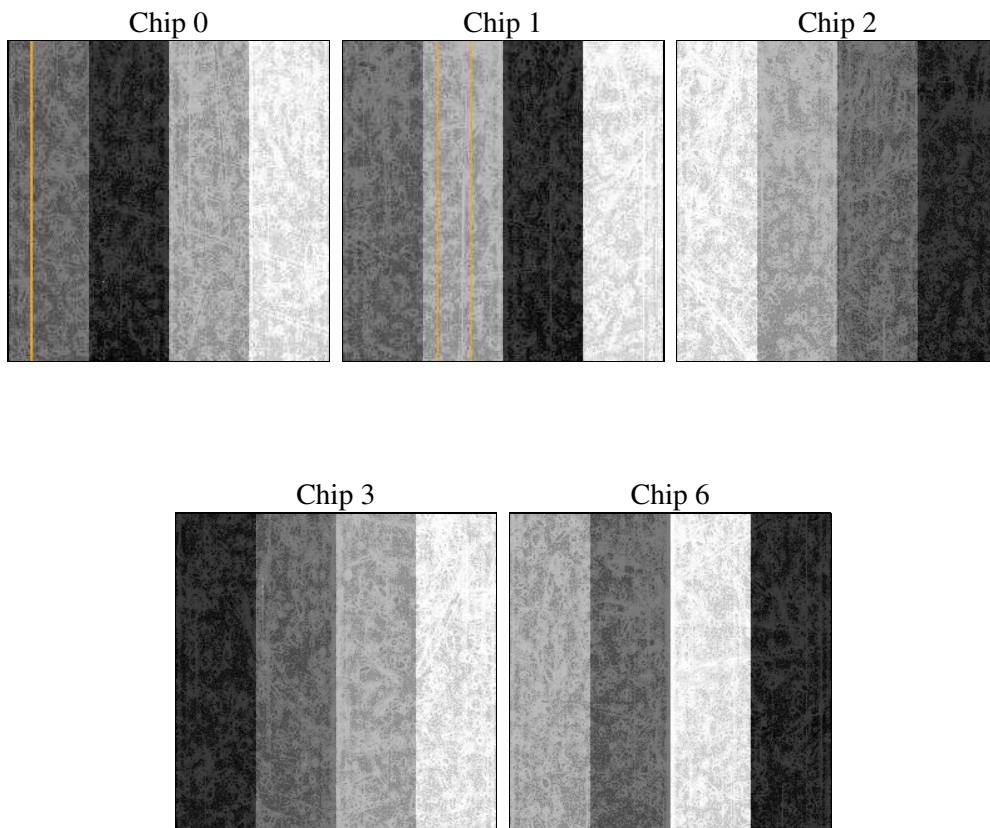
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	8000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	8071.8095248938	Sum of GTIs [s]
caldsver	4.9.3	 	ontime0	8071.6864049435	Sum of GTIs [s]
date	2020-10-27T15:56:46	Date and time of file creation	ontime1	8071.7274448872	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	8071.7684849501	Sum of GTIs [s]
			ontime3	8071.8095248938	Sum of GTIs [s]
			ontime6	8071.6453648806	Sum of GTIs [s]
			l1events	292530	Number of level 1 events

2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	54000	56976	61013	59378	61163
rejected events	47156	49236	53999	51969	54298
rejected %	87%	86%	88%	87%	88%

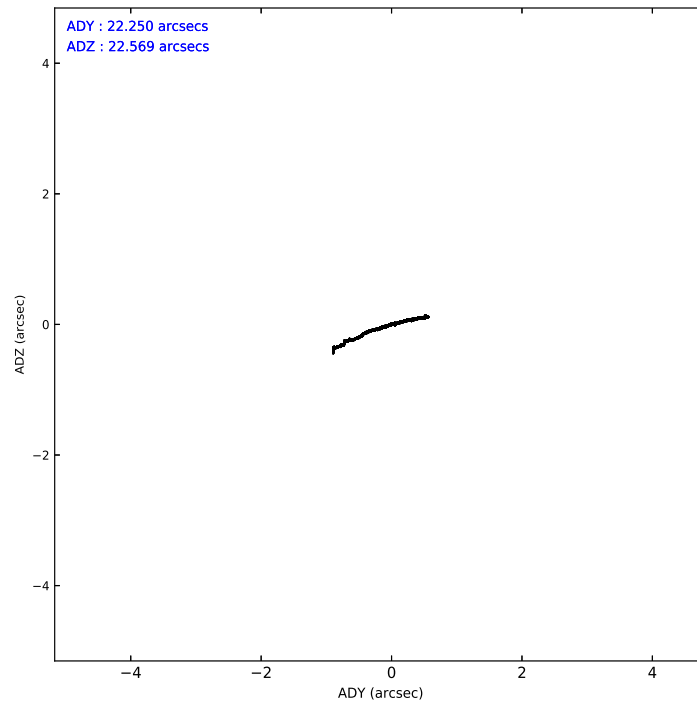
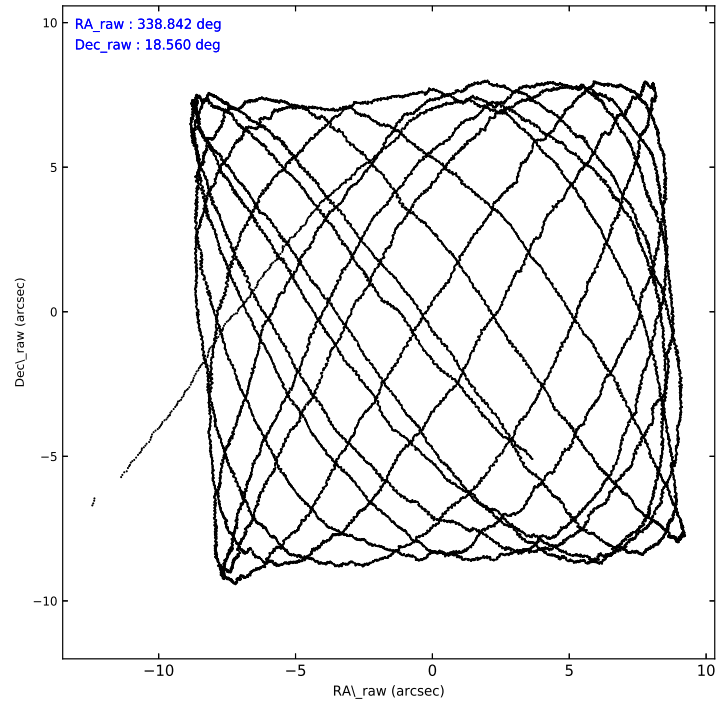
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	2368	2759	2587	3137	2278
	4%	4%	4%	5%	3%
grade 1 events	28	42	38	45	25
	0%	0%	0%	0%	0%
grade 2 events	1749	1900	1719	1532	1573
	3%	3%	2%	2%	2%
grade 3 events	697	722	663	695	693
	1%	1%	1%	1%	1%
grade 4 events	674	744	649	670	718
	1%	1%	1%	1%	1%
grade 5 events	2643	2905	2550	2930	2854
	4%	5%	4%	4%	4%
grade 6 events	1358	1621	1398	1379	1604
	2%	2%	2%	2%	2%
grade 7 events	44483	46283	51409	48990	51418
	82%	81%	84%	82%	84%

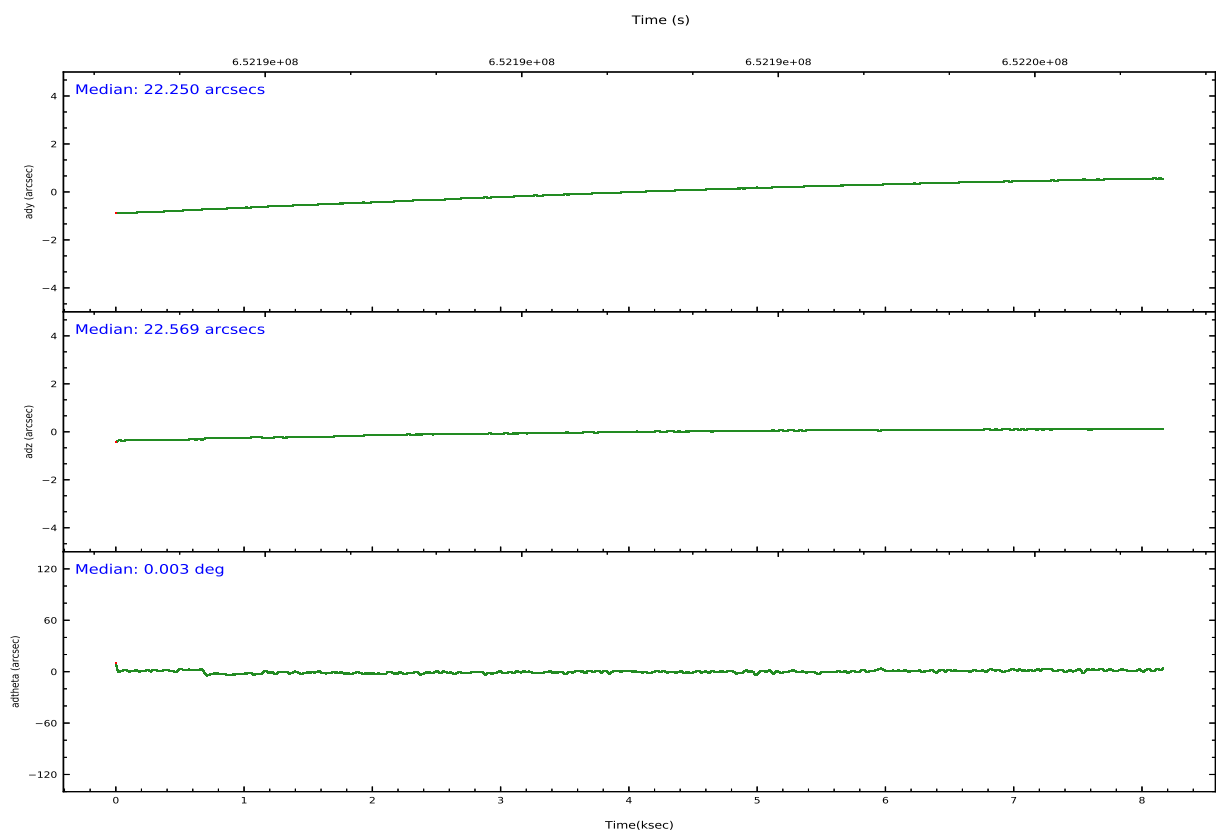
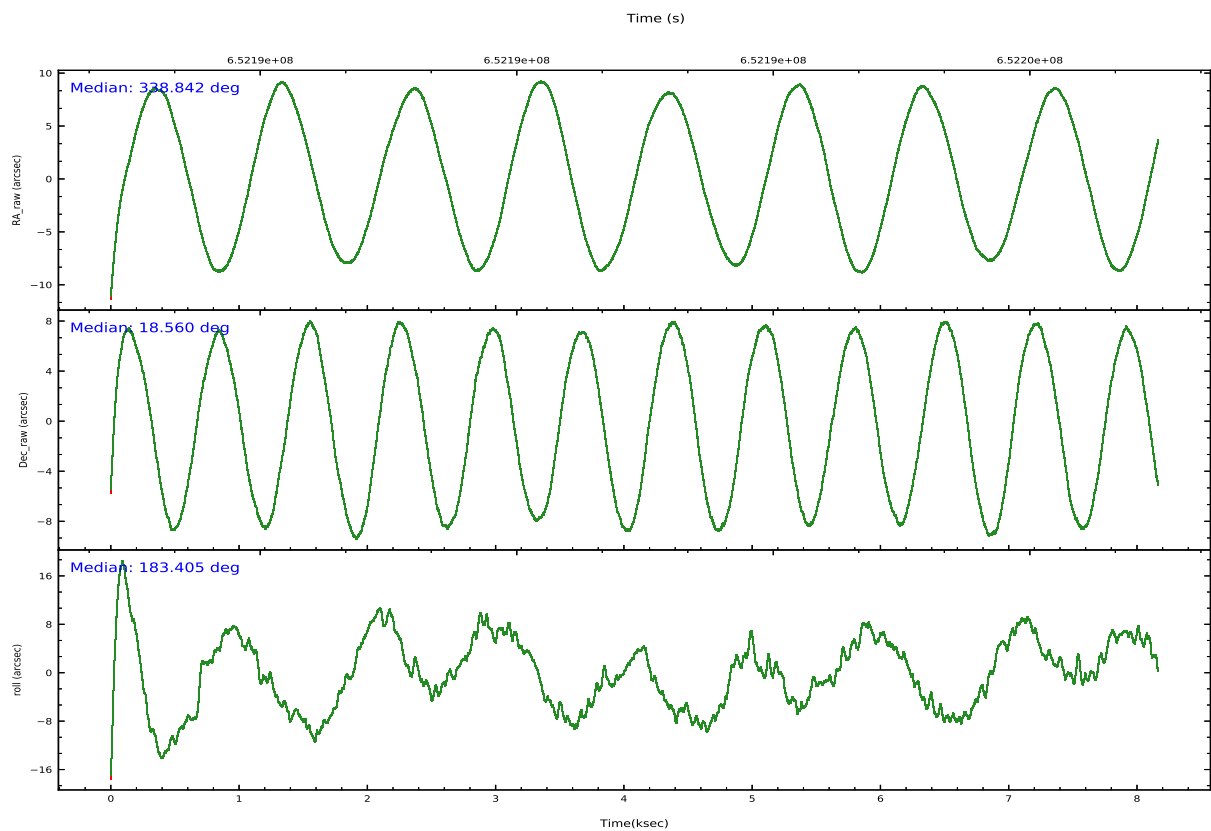
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-01236	ACIS-01236
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	338.866043	338.84815780824
[deg] Pointing Dec	18.575111	18.566716779796
[deg] Pointing Roll	183.198943	183.40481497649
[mm] SIM focus pos	-0.782348	-0.7809083437167272
[mm] SIM defocus	0	0.001439871863259334
[mm] SIM translation stage pos	-228.472463	-228.4808600833603
[mm] SIM translation stage offset	-5.12	-5.111592919569347
[s] Observation start time (MET)	652189001.184000	652187942.3073699
Observation start date	2018-09-01T11:35:32	2018-09-01T11:19:02
[s] Observation end time (MET)	652197001.184000	652198266.6204799
Observation end date	2018-09-01T13:48:52	2018-09-01T14:11:06
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar version number	8	8
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
CCD I0 on	Y	Y
CCD I1 on	Y	Y
CCD I2 on	Y	Y
CCD I3 on	Y	Y
CCD S0 on	N	N
CCD S1 on	N	N
CCD S2 on	O1	Y
CCD S3 on	N	N
CCD S4 on	N	N
CCD S5 on	N	N
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



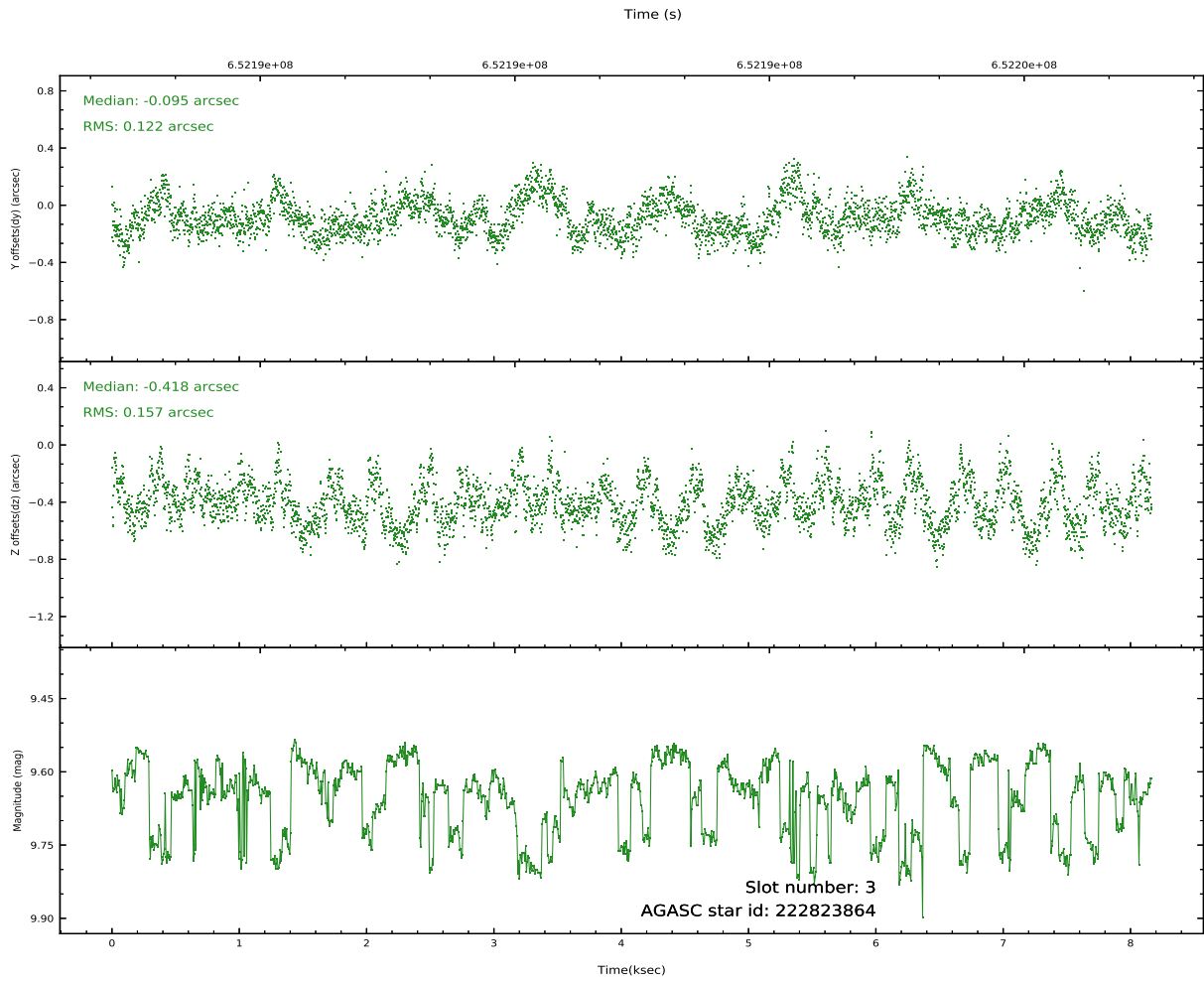
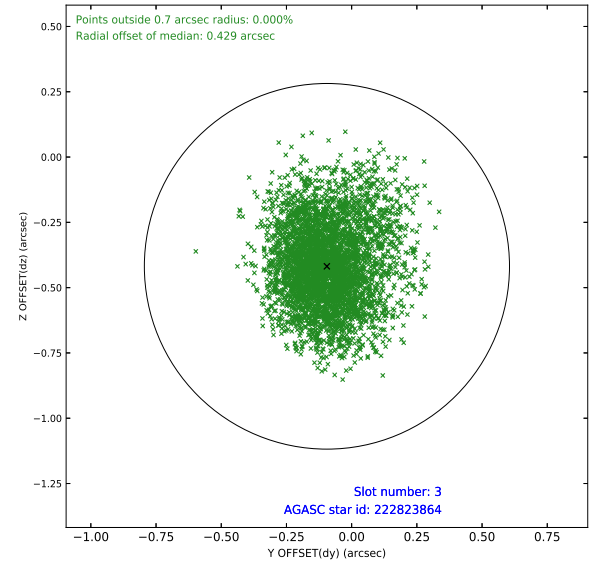
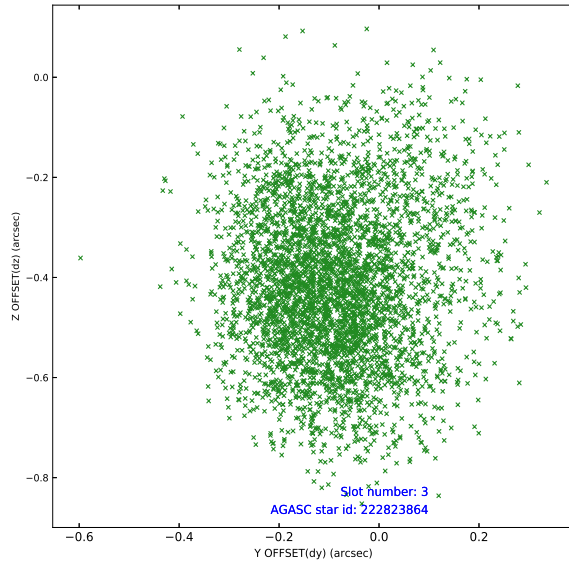


Slot Statistics

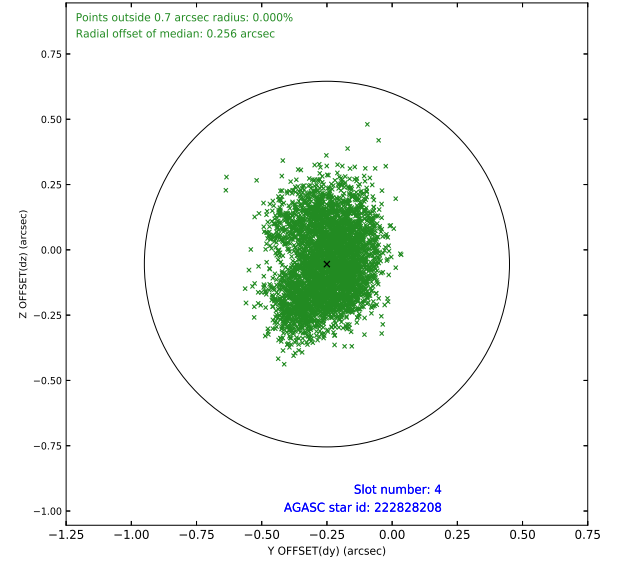
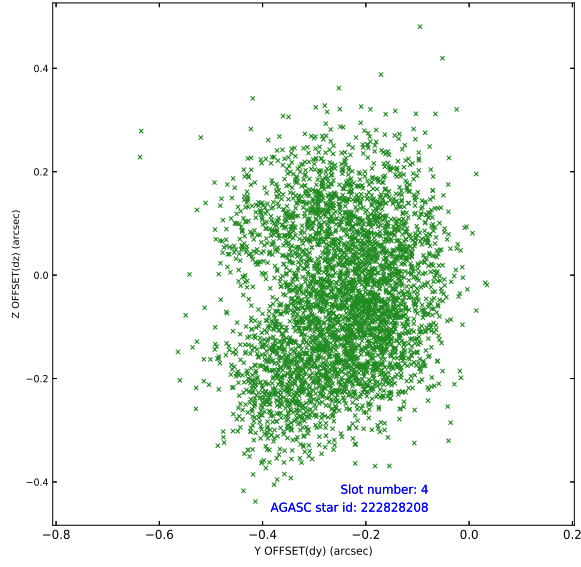
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.13	1992	1.000	0.133	-0.065	0.016	0.061	0.000000	0.000000	917.03	-951
1	FID		ACIS-I-2	7.06	1992	1.000	-0.159	0.082	0.013	0.040	0.000000	0.000000	-777.25	-957
2	FID		ACIS-I-4	7.07	1992	1.000	-0.074	0.049	0.017	0.033	0.000000	0.000000	2136.24	948
3	GUIDE	used	222823864	9.64	3976	1.000	-0.095	-0.418	0.214	0.349	338.602270	18.384875	938.00	632
4	GUIDE	used	222828208	8.87	3978	1.000	-0.250	-0.055	0.189	0.290	338.728882	18.222277	537.84	1241
5	GUIDE	used	223355216	9.78	3976	1.000	0.025	-0.062	0.177	0.300	338.627588	18.983467	729.09	-1512
6	GUIDE	used	223358200	9.92	3957	1.000	0.222	0.306	0.306	0.510	339.089132	19.217848	-885.20	-2268
7	GUIDE	used	223357704	9.05	3977	1.000	0.083	0.226	0.205	0.327	339.325998	19.145896	-1676.03	-1966

2.4 Star Slots

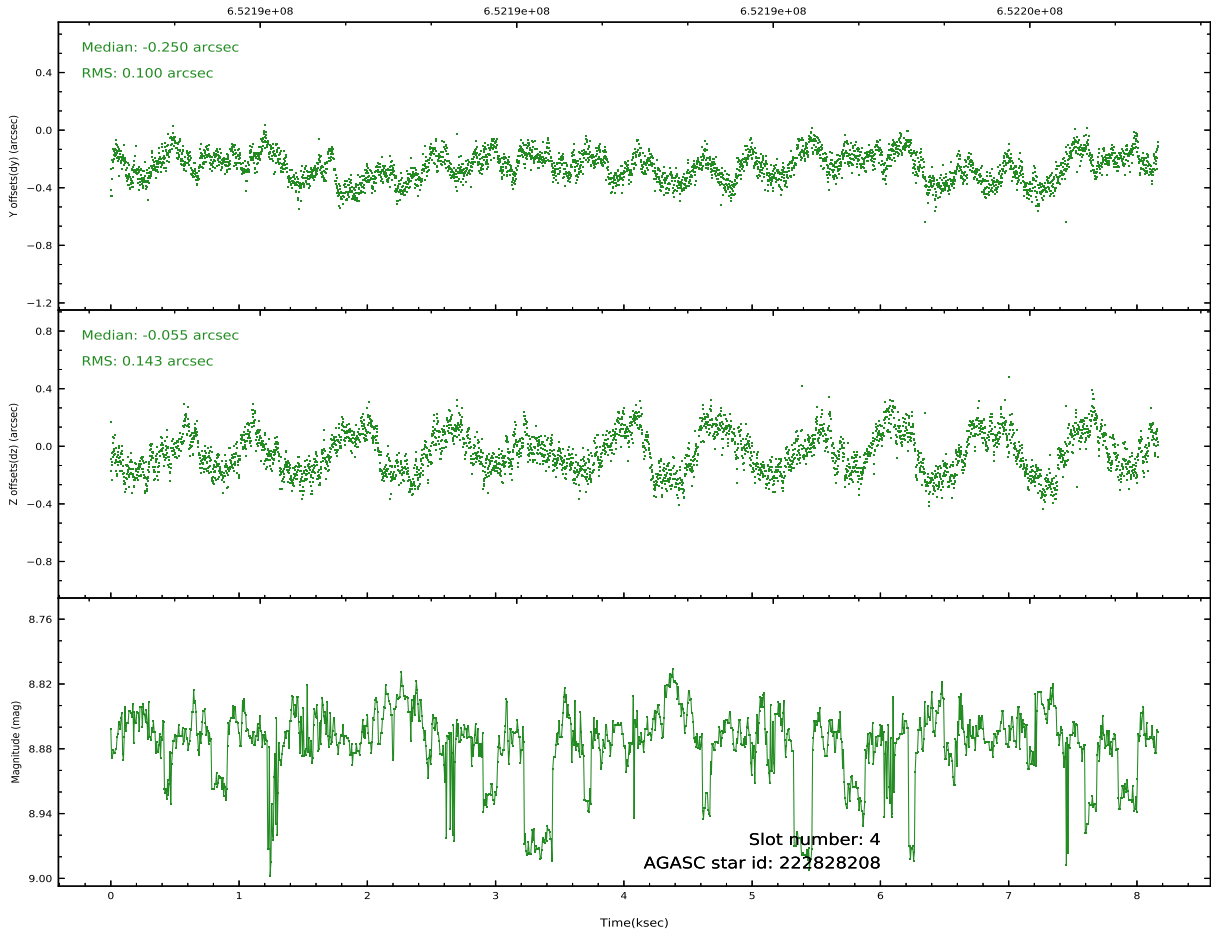
2.4.1 Slot 3



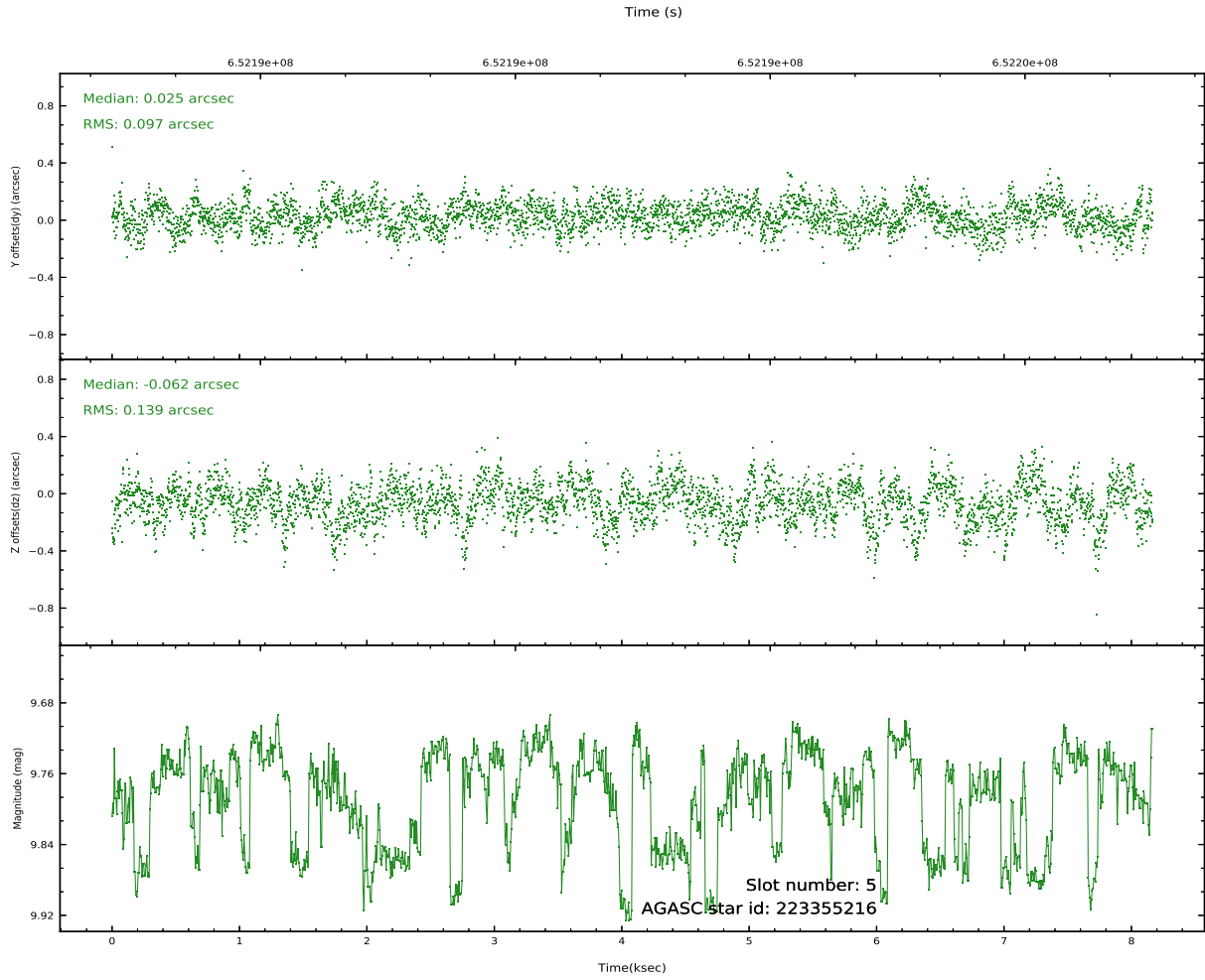
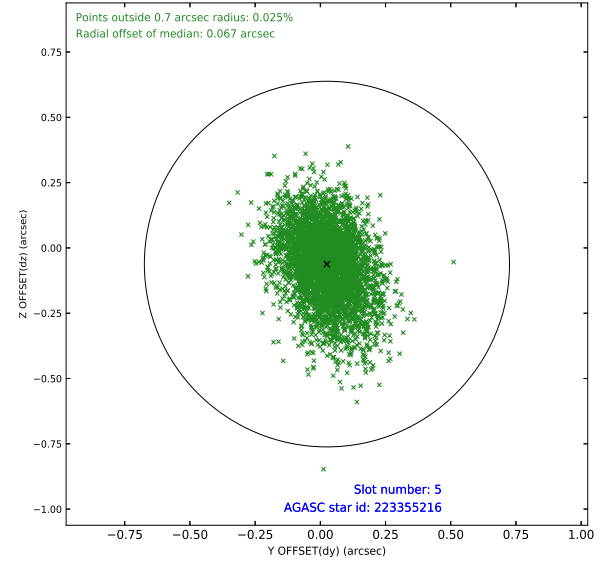
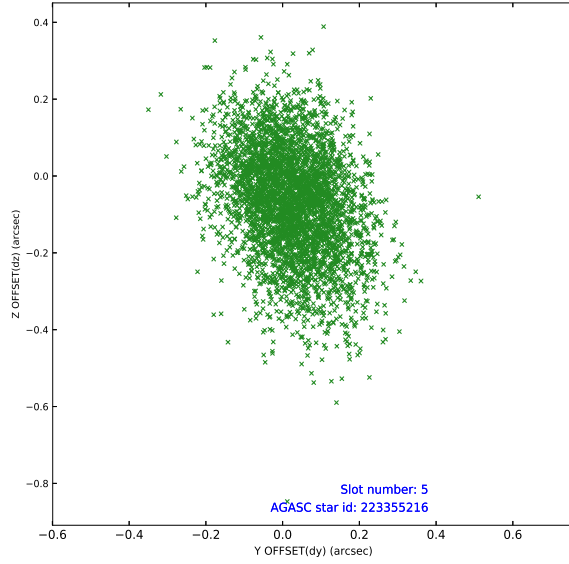
2.4.2 Slot 4



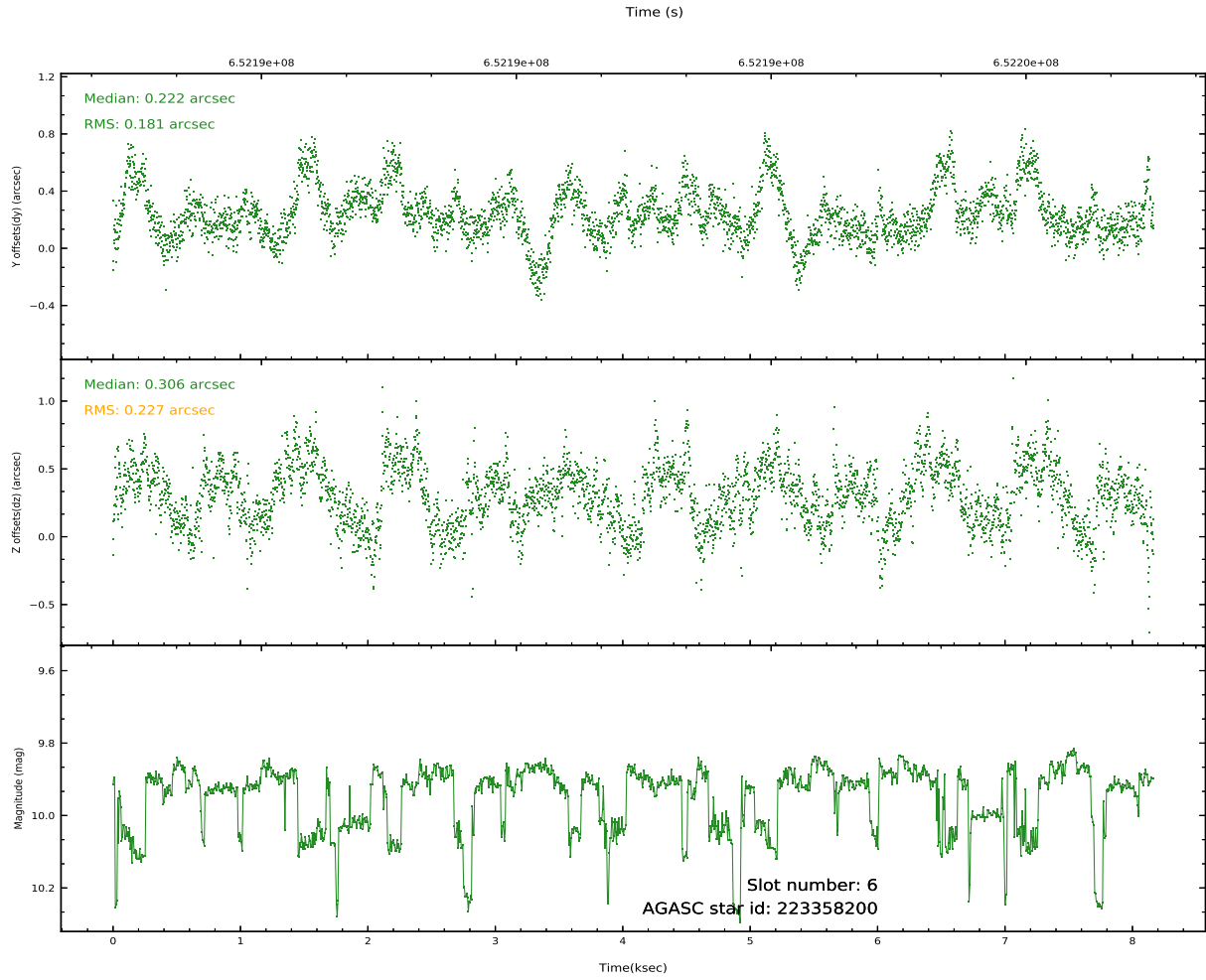
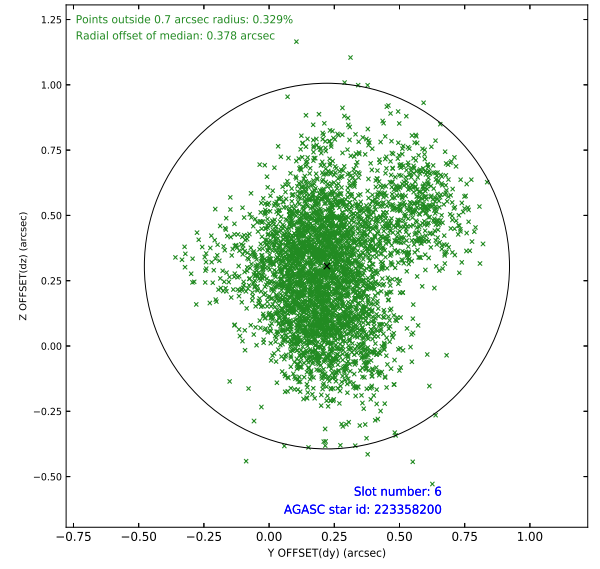
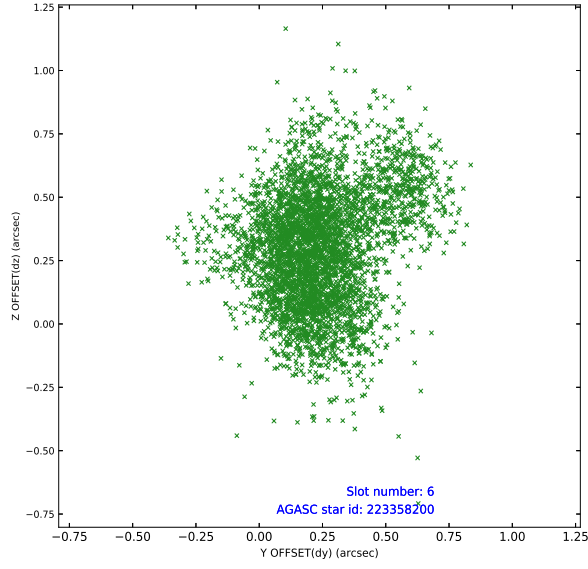
Time (s)



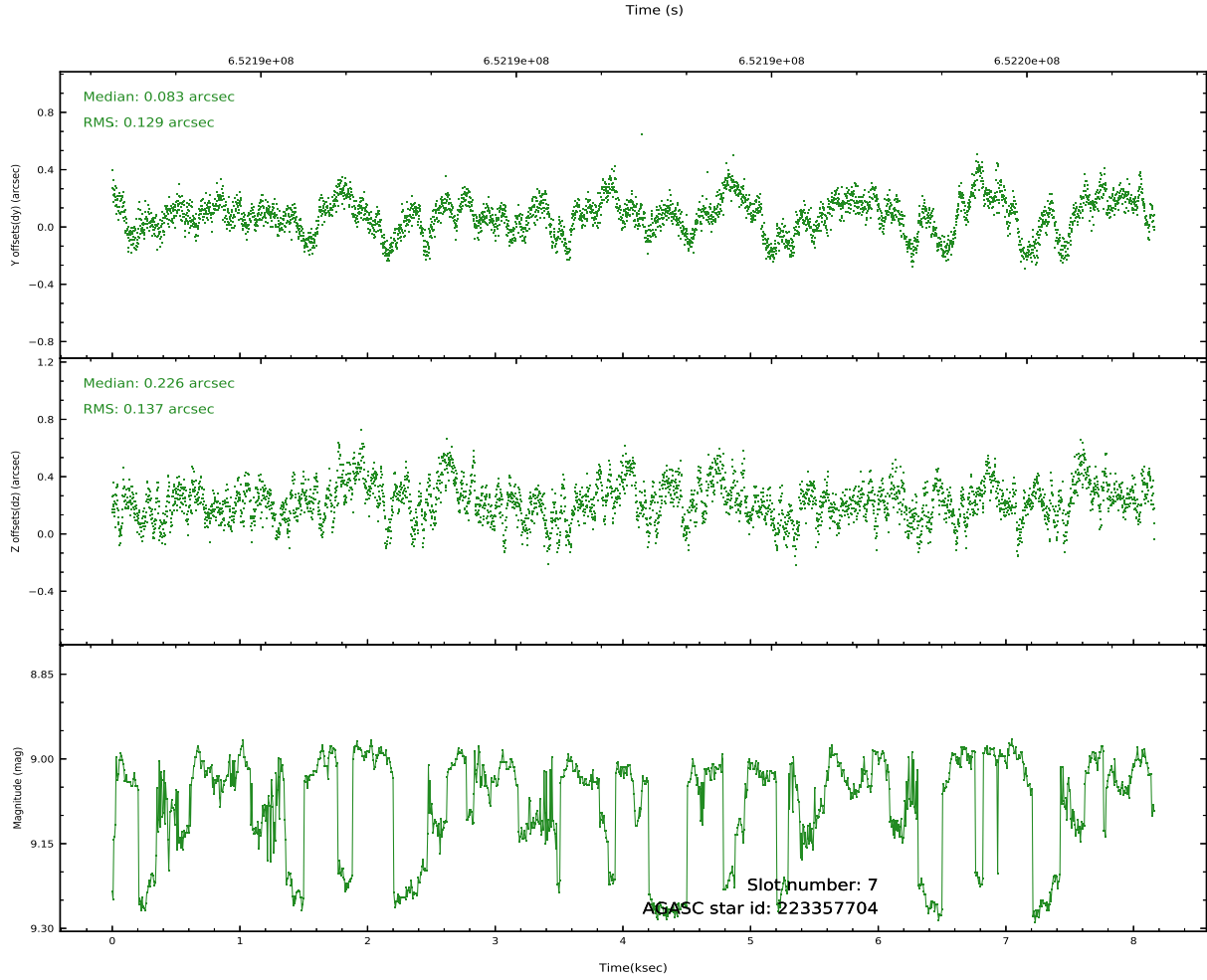
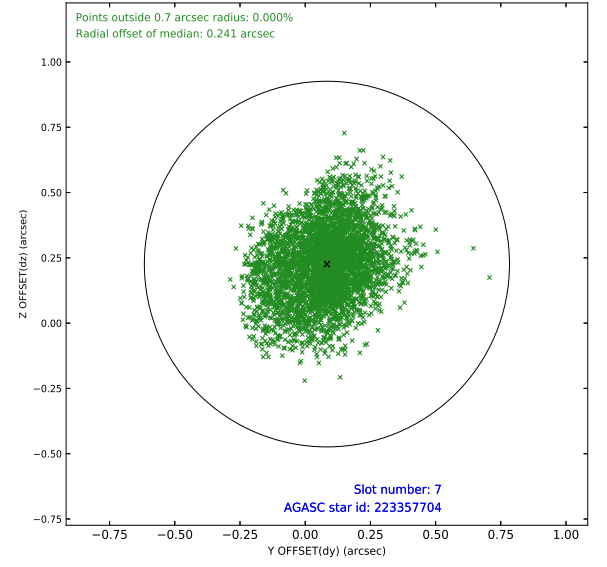
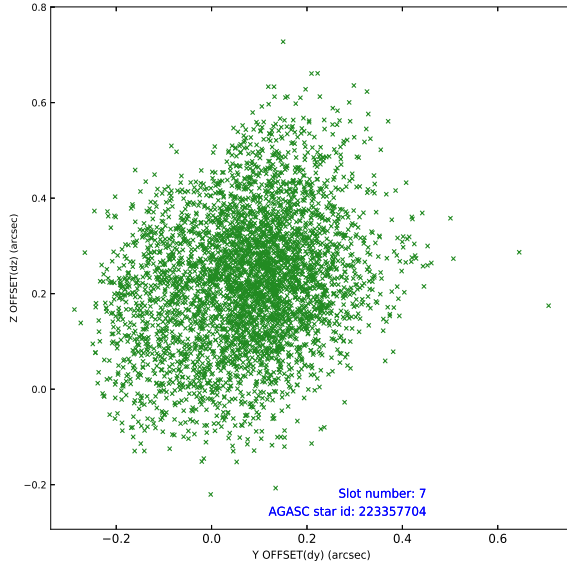
2.4.3 Slot 5



2.4.4 Slot 6

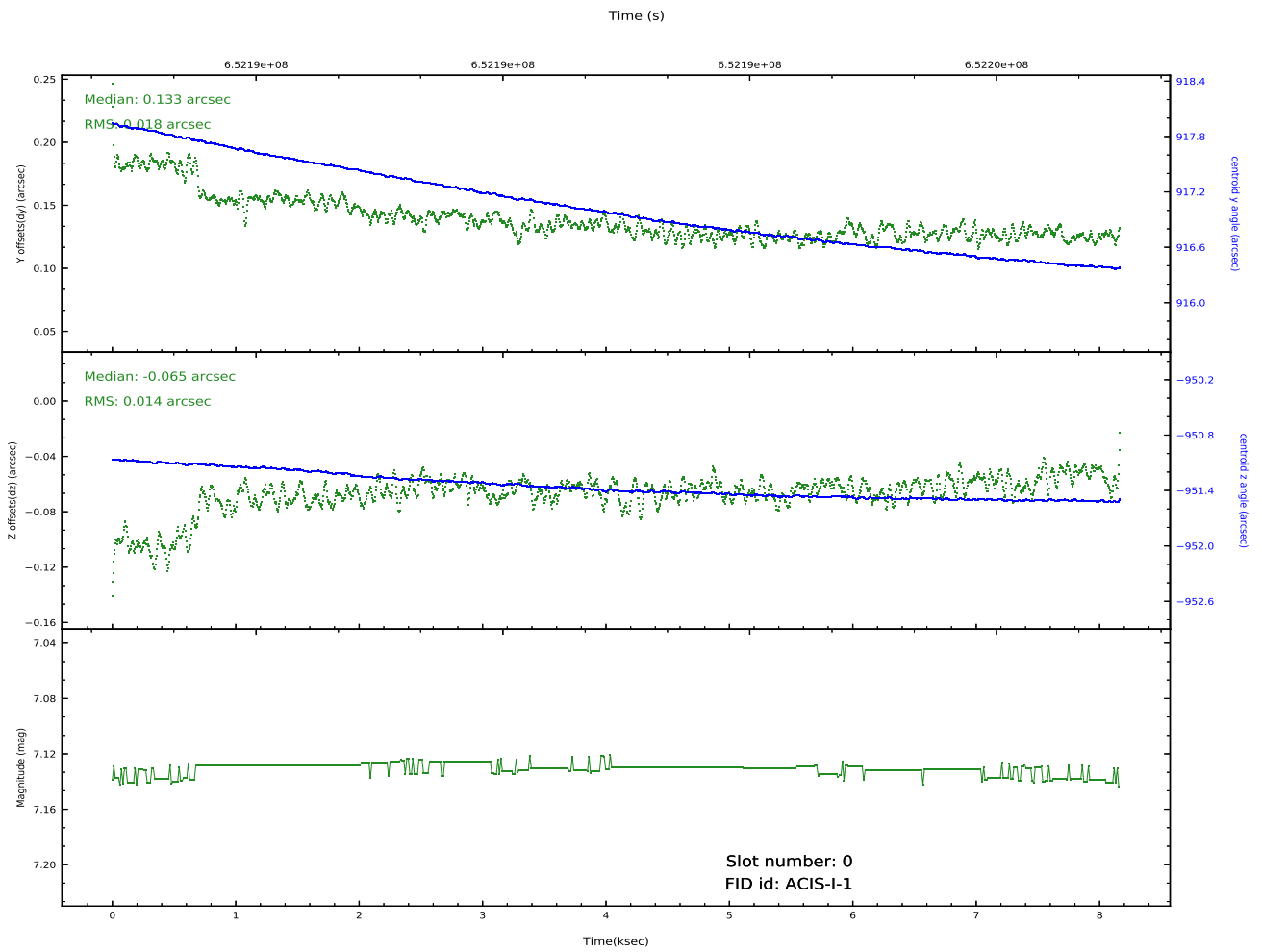
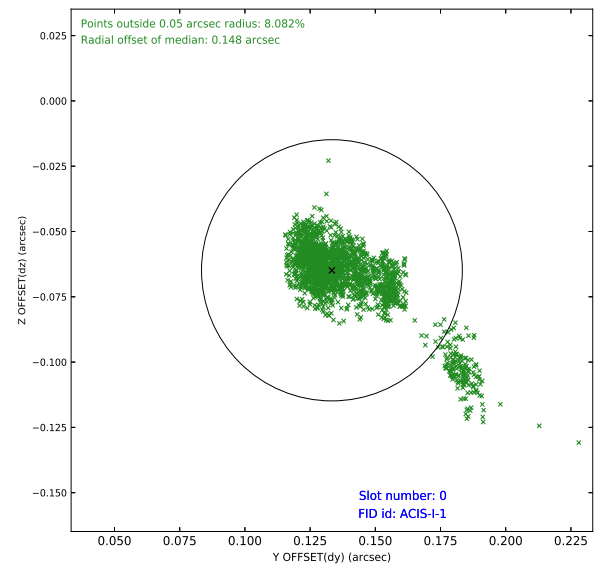
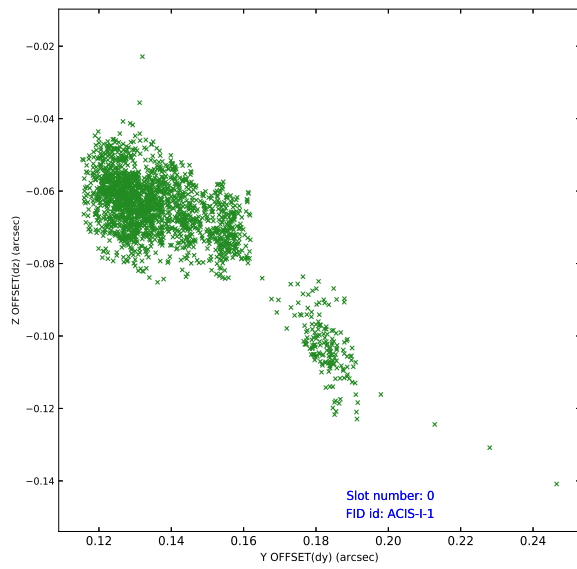


2.4.5 Slot 7

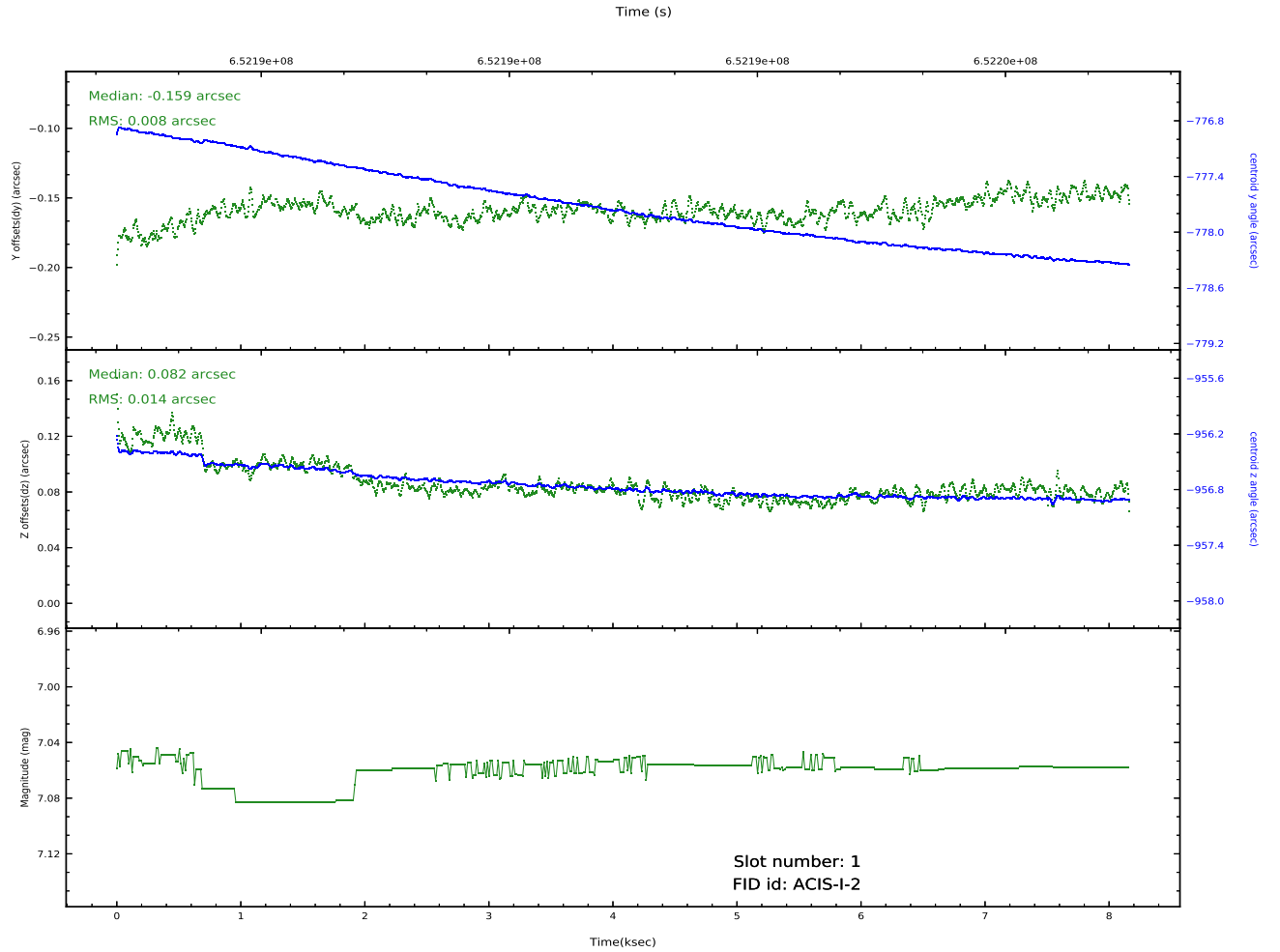
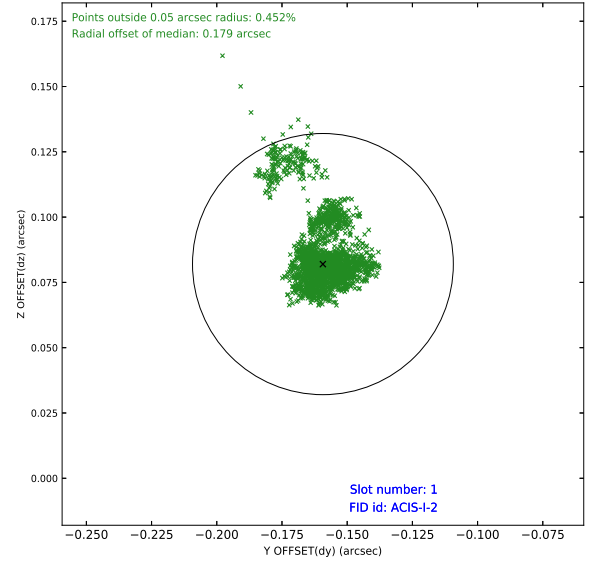
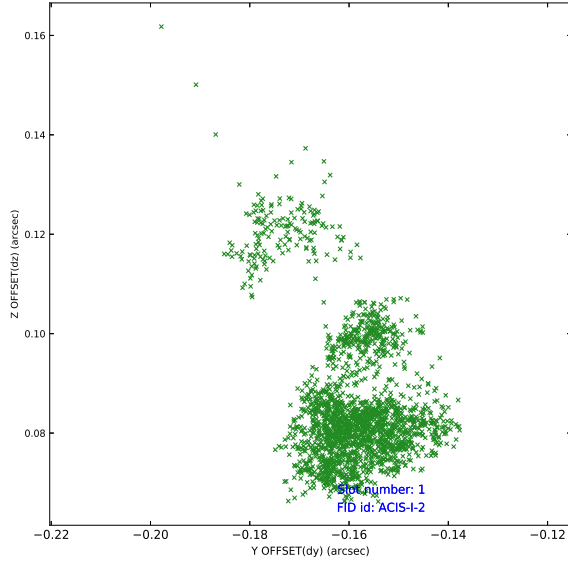


2.5 FID Slots

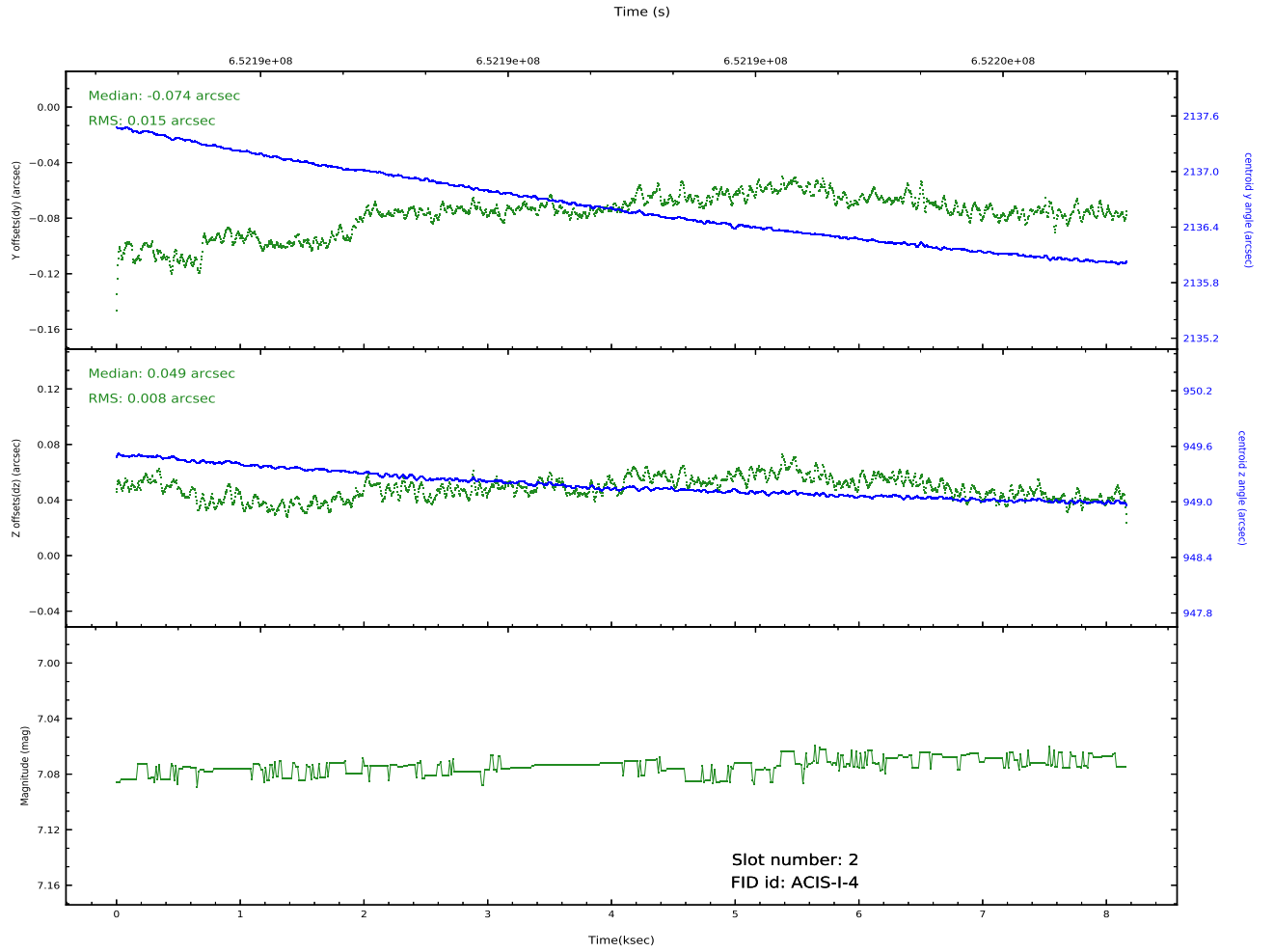
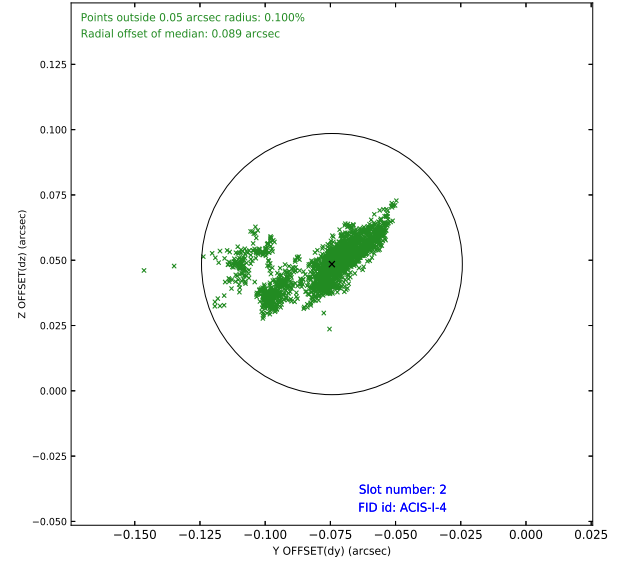
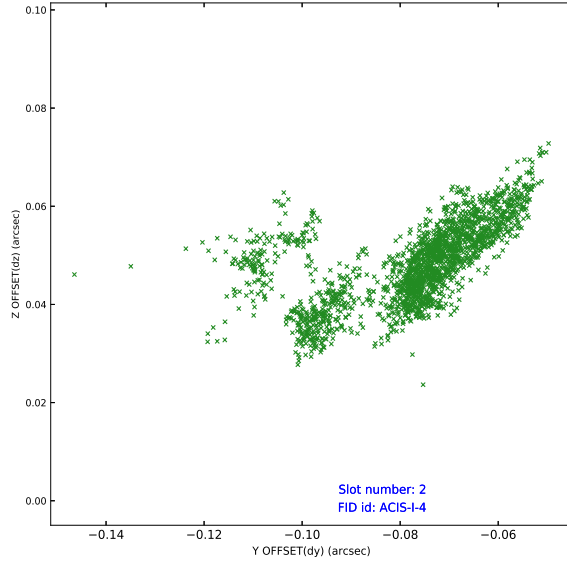
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2020.10.30
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.0718095194101

A.2 Comments