

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 21074 - L2 Version 2
Chandra X-Ray Center

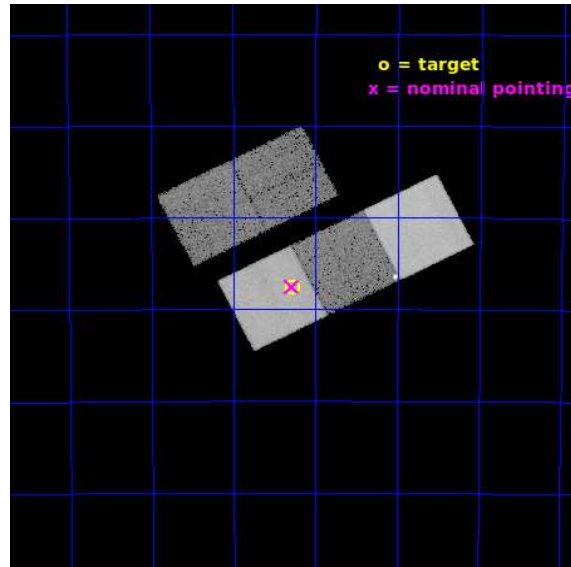
L2 Processing Date : Oct 25 2020

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1 Front

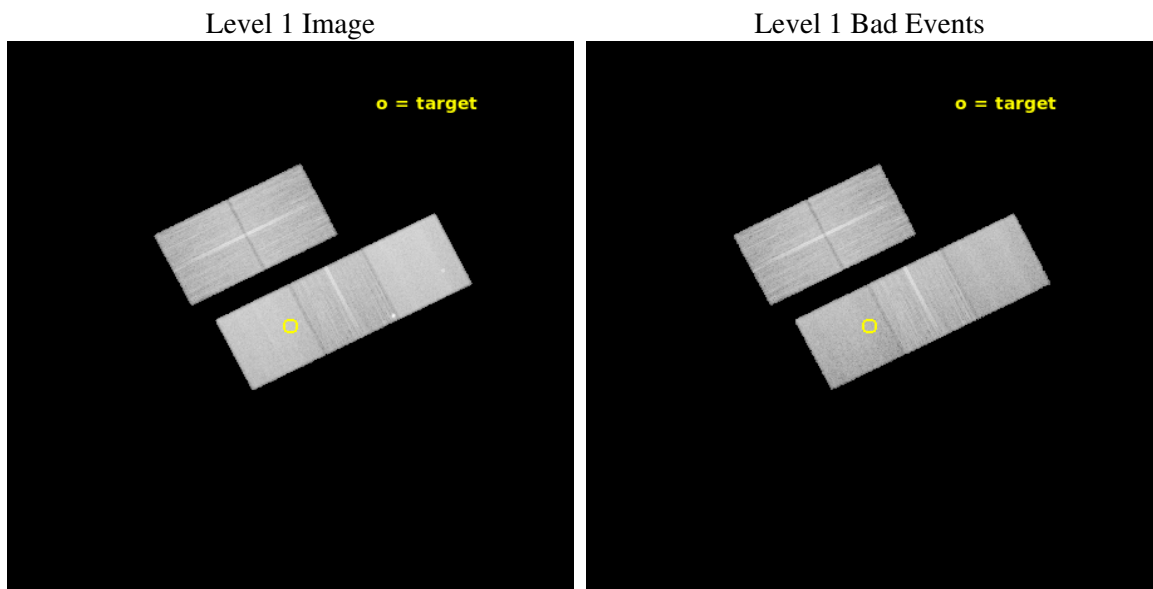
seq_num	801746	Sequence number
obs_id	21074	Observation id
title	Building a complete sample of $z>1$ XXL galaxy clusters	Proposal tit
observer	Ben Maughan	Principal investigator
object	XXL-S0225	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	352.819	Observer's specified target RA [deg]
dec_targ	-55.127	Observer's specified target Dec [deg]
ra_nom	352.82178416981	Nominal RA [deg]
dec_nom	-55.125736556208	Nominal Dec [deg]
roll_nom	153.13232449442	Nominal Roll [deg]
revision	2	Processing version of data
ontime	24349.234994054	Sum of GTIs [s]
livetime	24031.094313211	Livetime [s]
ontime2	24345.929844022	Sum of GTIs [s]
ontime3	24345.970903873	Sum of GTIs [s]
ontime5	24349.19395411	Sum of GTIs [s]
ontime6	24349.152914047	Sum of GTIs [s]
ontime7	24349.234994054	Sum of GTIs [s]
l2events	278108	Number of level 2 events



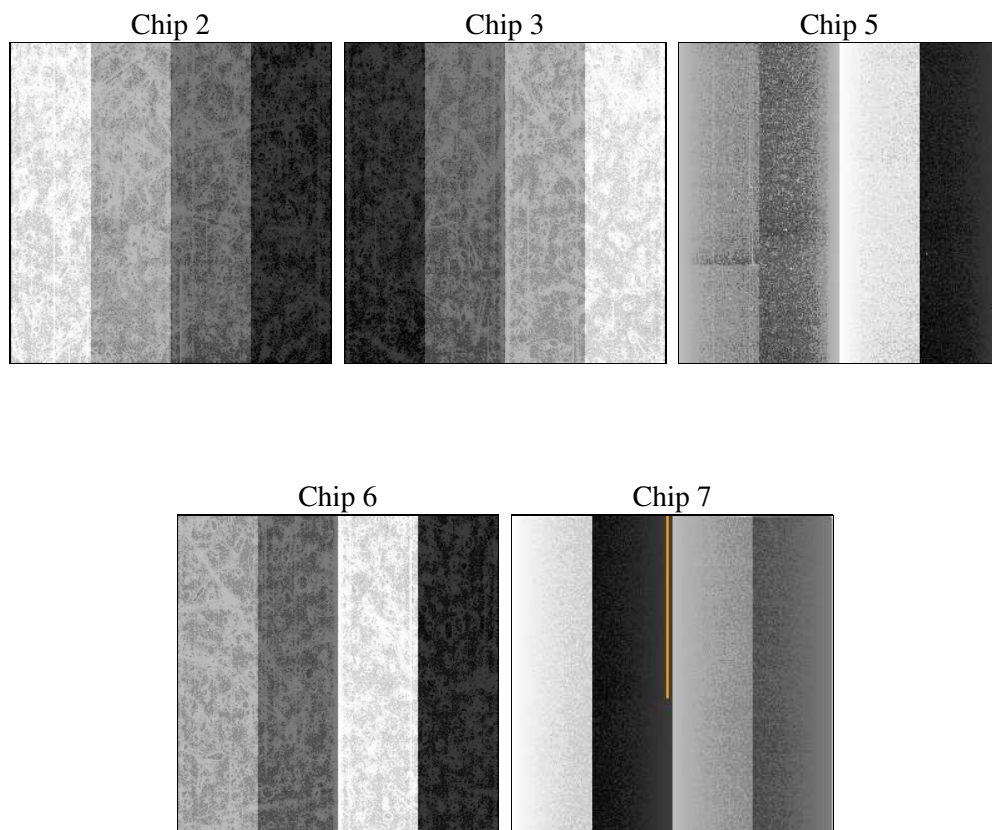
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	24294.066000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	24349.234994054	Sum of GTIs [s]
caldsver	4.9.3	 	ontime2	24345.929844022	Sum of GTIs [s]
date	2020-10-25T11:47:27	Date and time of file creation	ontime3	24345.970903873	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	24349.19395411	Sum of GTIs [s]
			ontime6	24349.152914047	Sum of GTIs [s]
			ontime7	24349.234994054	Sum of GTIs [s]
			l1events	1052743	Number of level 1 events

2.1.4 Events

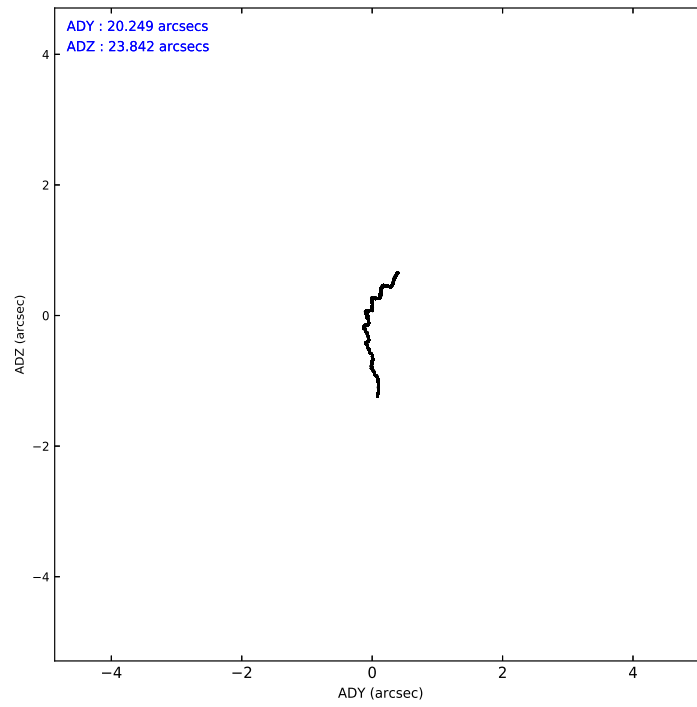
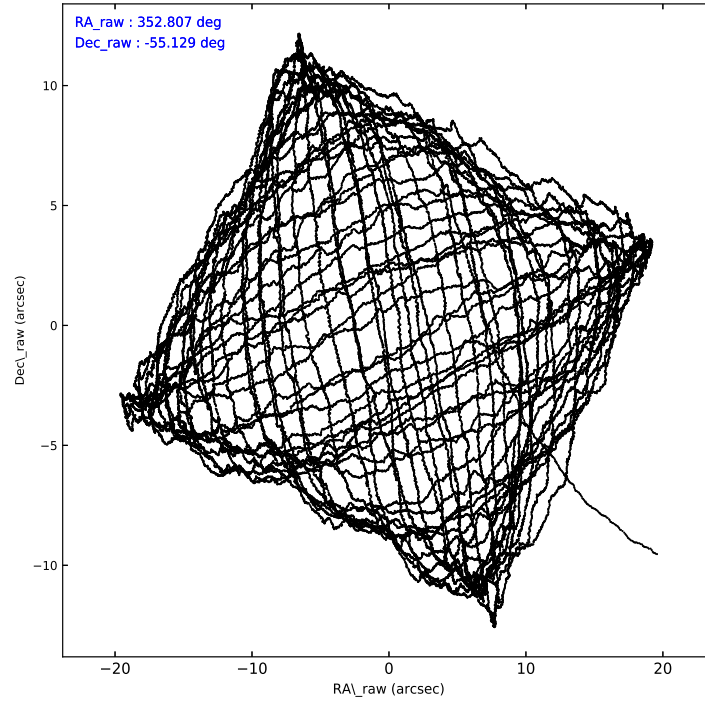
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
level 1 events	178985	174613	279951	189438	229756	grade 0 events	6592	7129	7454	7882	8354
rejected events	160033	155642	146029	167481	130163		3%	4%	2%	4%	3%
rejected %	89%	89%	52%	88%	56%	grade 1 events	112	104	631	103	327
							0%	0%	0%	0%	0%
						grade 2 events	4818	3995	42545	5226	21132
							2%	2%	15%	2%	9%
						grade 3 events	1839	2023	4235	2090	7890
							1%	1%	1%	1%	3%
						grade 4 events	2037	2007	4075	1964	7860
							1%	1%	1%	1%	3%
						grade 5 events	6762	8406	19621	8301	23190
							3%	4%	7%	4%	10%
						grade 6 events	3670	3822	75656	4797	54384
							2%	2%	27%	2%	23%
						grade 7 events	153155	147127	125734	159075	106619
							85%	84%	44%	83%	46%

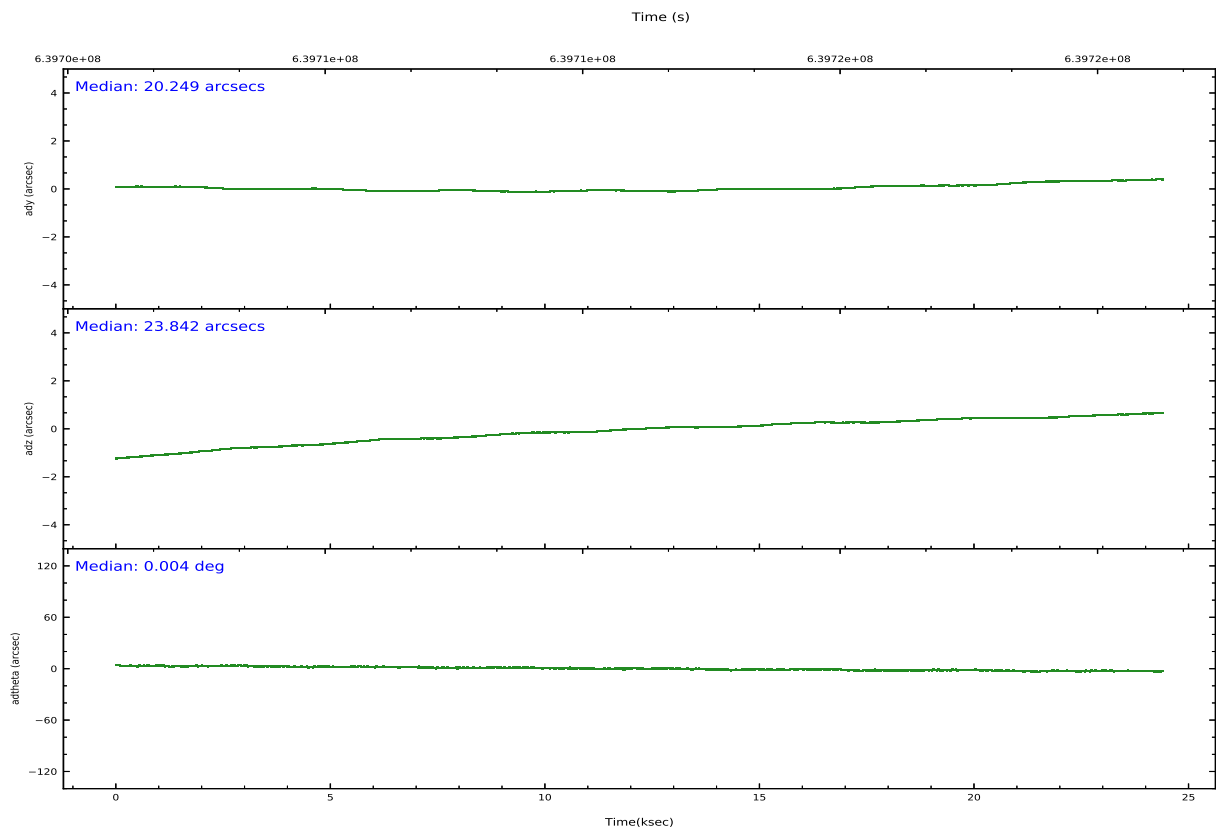
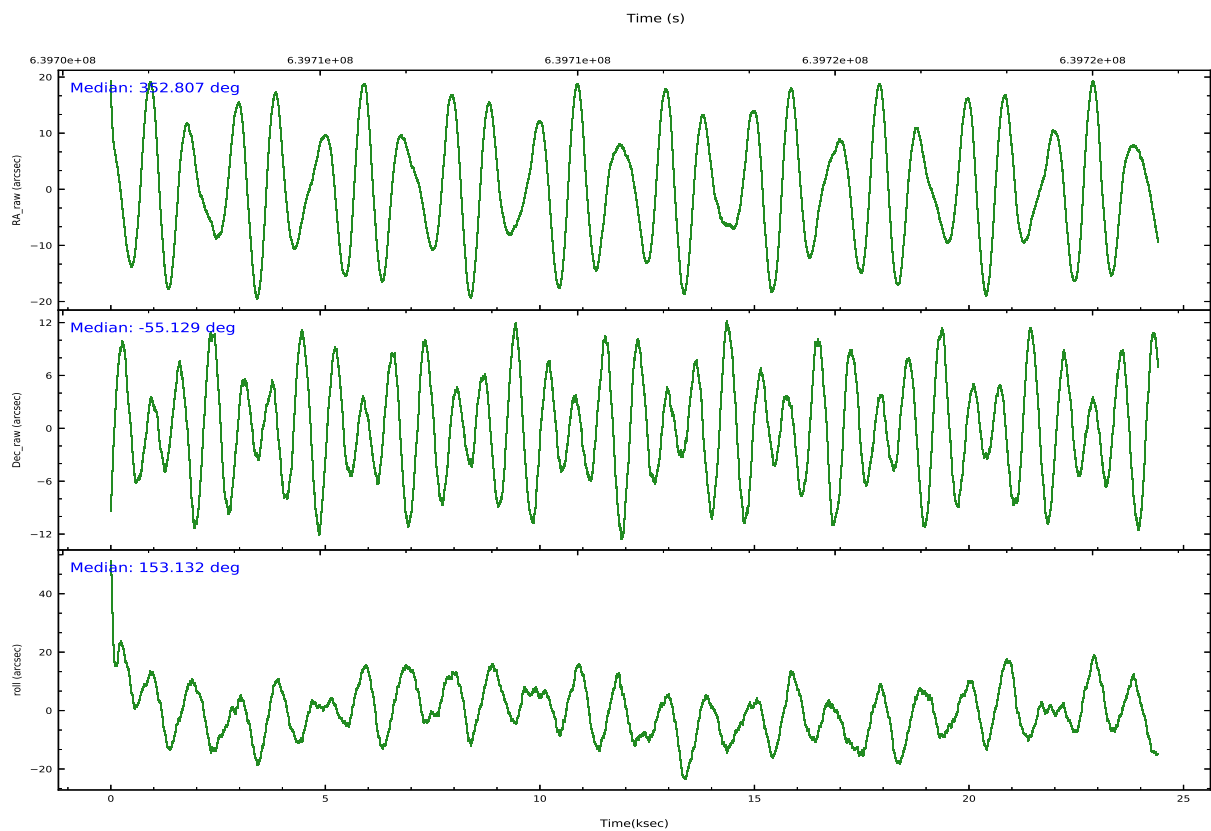
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-23567	ACIS-23567
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	352.855121	352.82178416981
[deg] Pointing Dec	-55.127264	-55.125736556208
[deg] Pointing Roll	153.029632	153.13232449442
[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)	639701235.184000	639699801.28066
Observation start date	2018-04-09T22:46:06	2018-04-09T22:23:21
[s] Observation end time (MET)	639725529.184000	639726547.6322401
Observation end date	2018-04-10T05:31:00	2018-04-10T05:49:07
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	N	N
CCD I1 on	N	N
CCD I2 on	O1	Y
CCD I3 on	Y	Y
CCD S0 on	N	N
CCD S1 on	Y	Y
CCD S2 on	Y	Y
CCD S3 on	Y	Y
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



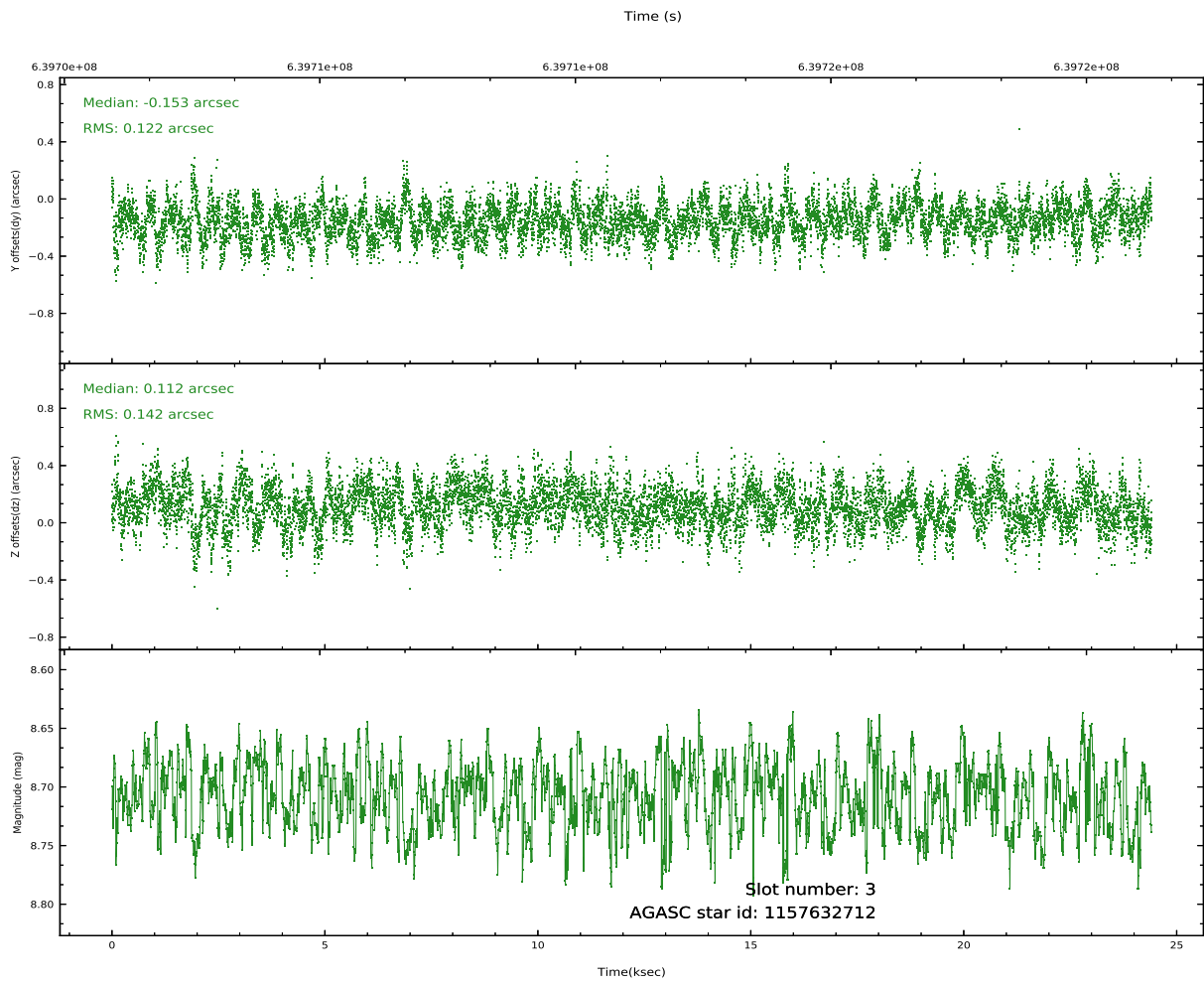
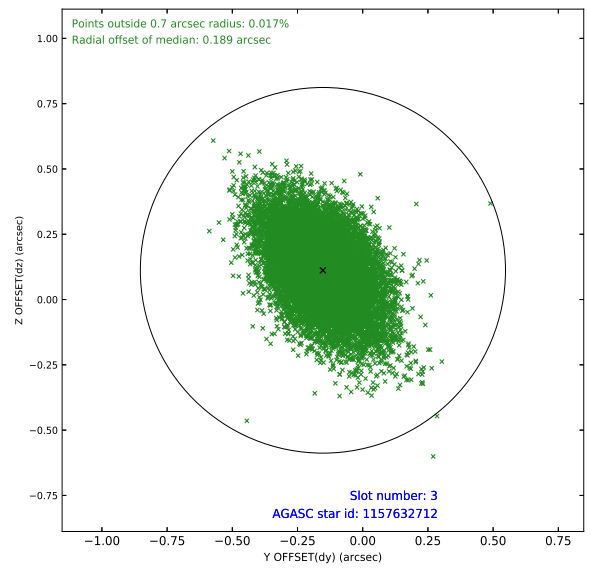
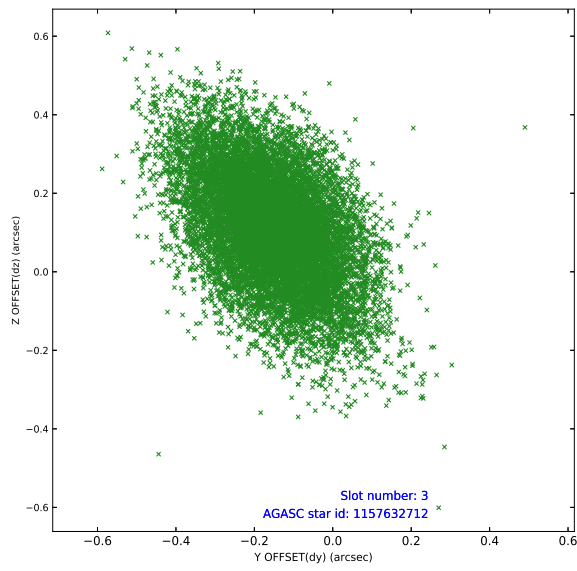


Slot Statistics

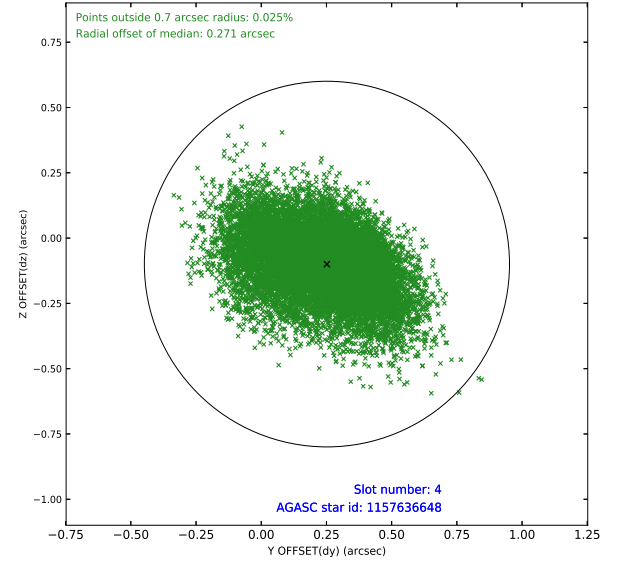
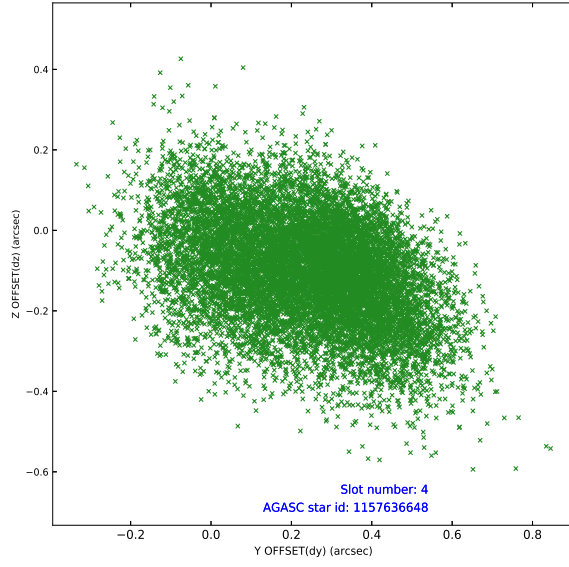
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.05	5954	1.000	0.095	-0.087	0.037	0.063	0.000000	0.000000	-773.56	-1745
1	FID		ACIS-S-4	7.16	5953	1.000	0.096	-0.022	0.008	0.014	0.000000	0.000000	2139.92	162
2	FID		ACIS-S-5	7.16	5954	1.000	-0.223	0.117	0.032	0.059	0.000000	0.000000	-1826.30	157
3	GUIDE	used	1157632712	8.70	11901	1.000	-0.153	0.112	0.196	0.330	352.239335	-54.471579	2216.26	-1513
4	GUIDE	used	1157636648	9.27	11892	1.000	0.252	-0.100	0.234	0.385	353.192393	-54.996097	-406.59	-735
5	GUIDE	used	1158030320	9.51	11885	1.000	-0.105	0.005	0.198	0.334	353.883827	-55.255798	-2097.37	-530
6	GUIDE	used	1158030960	8.29	11900	1.000	-0.207	0.111	0.155	0.281	353.715995	-55.176422	-1662.45	-635
7	GUIDE	used	1157630512	10.07	11812	0.999	0.226	-0.128	0.327	0.684	352.257677	-54.339669	2401.46	-1953

2.4 Star Slots

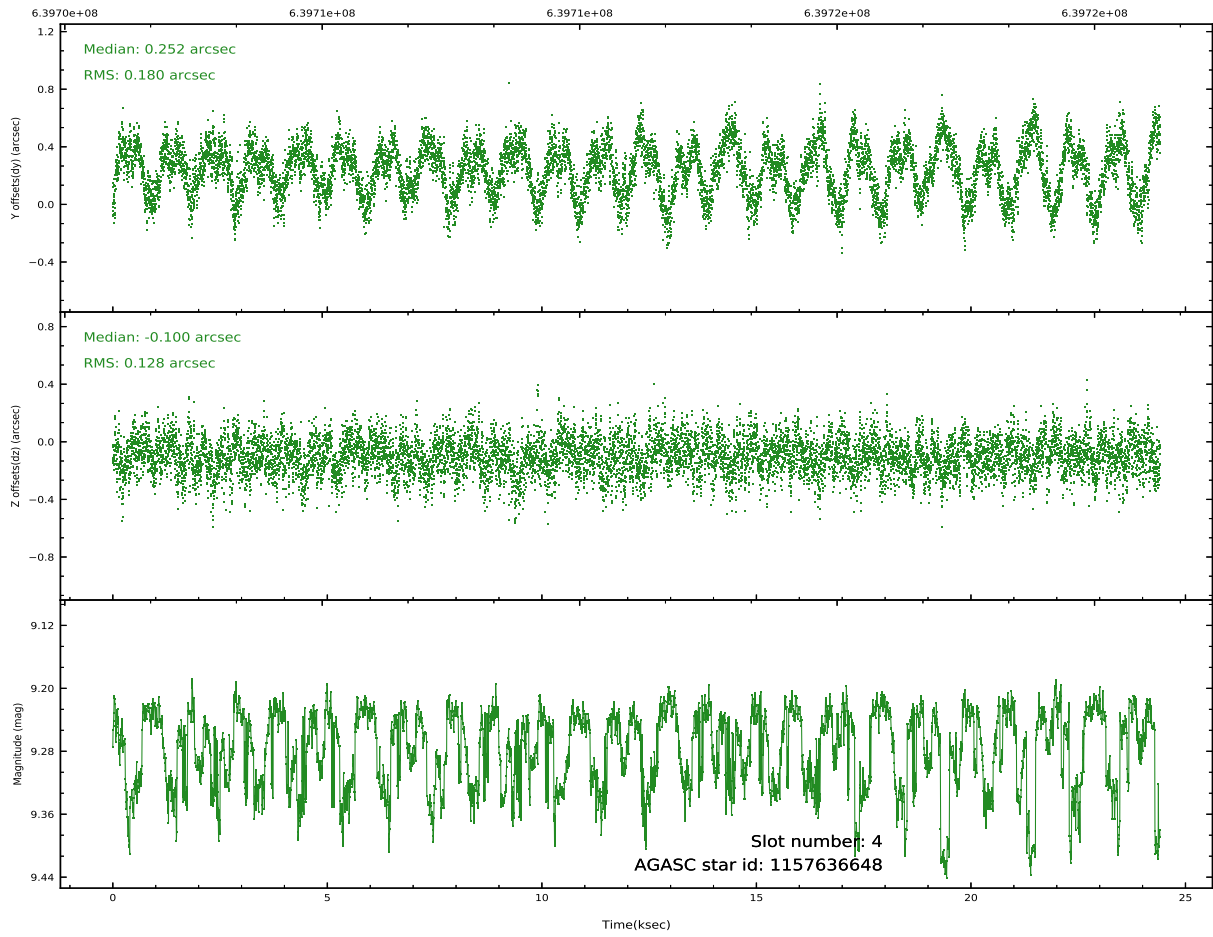
2.4.1 Slot 3



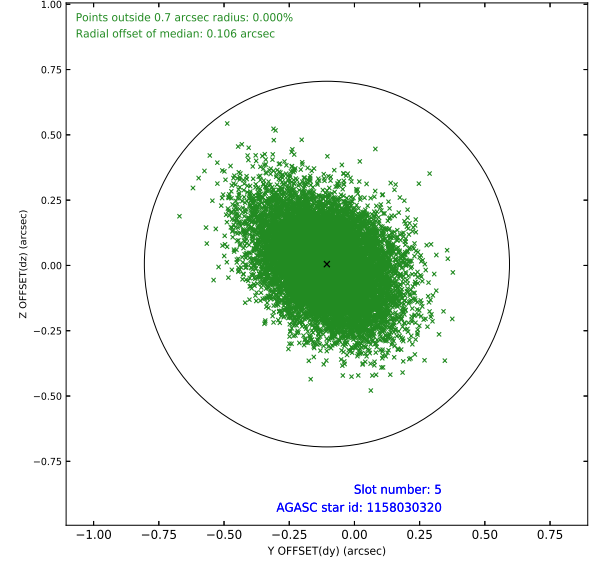
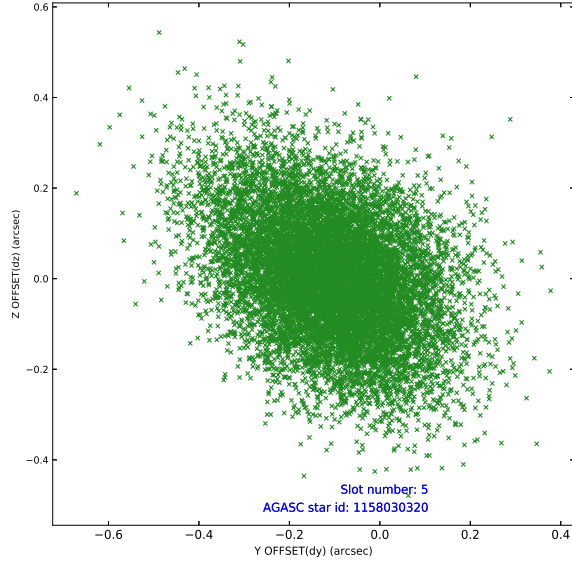
2.4.2 Slot 4



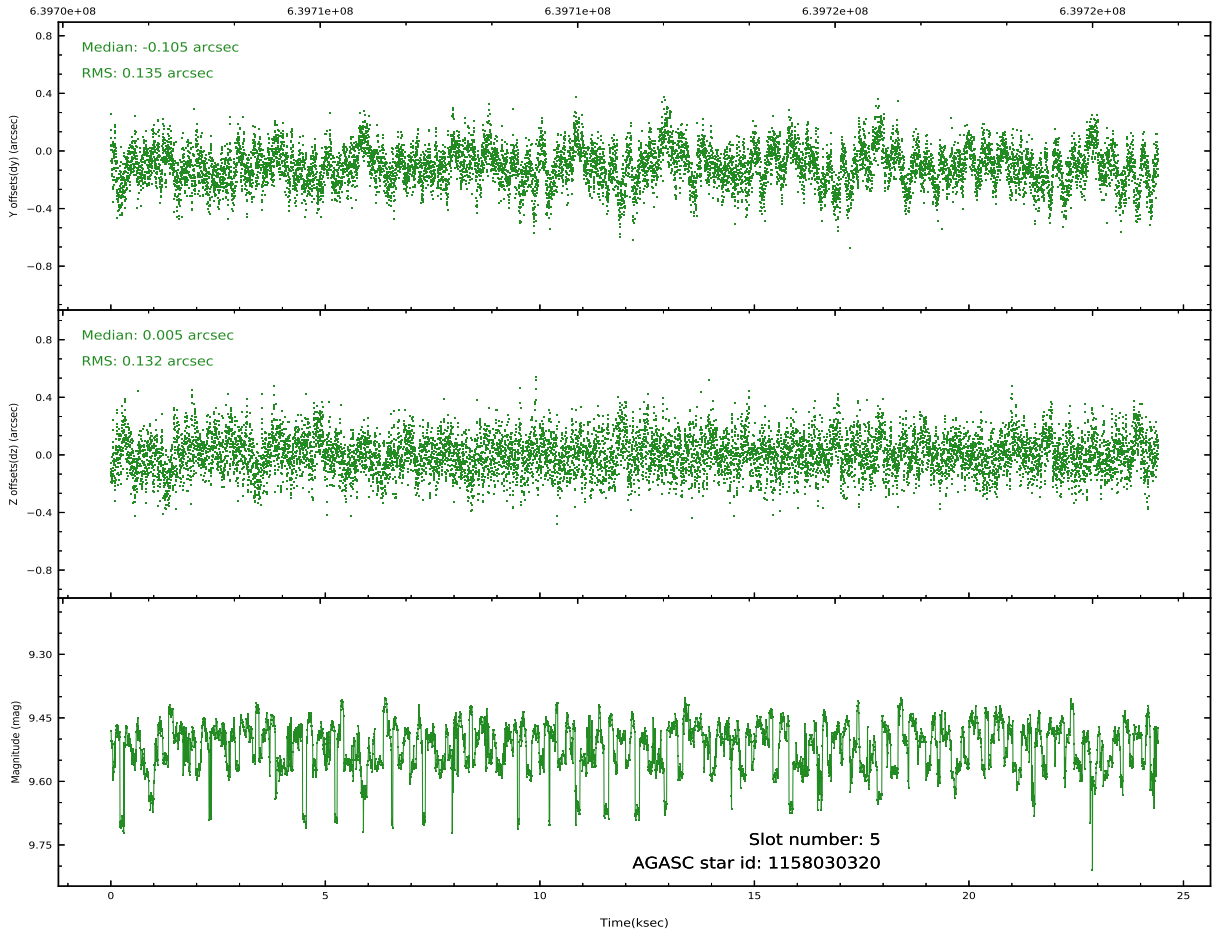
Time (s)



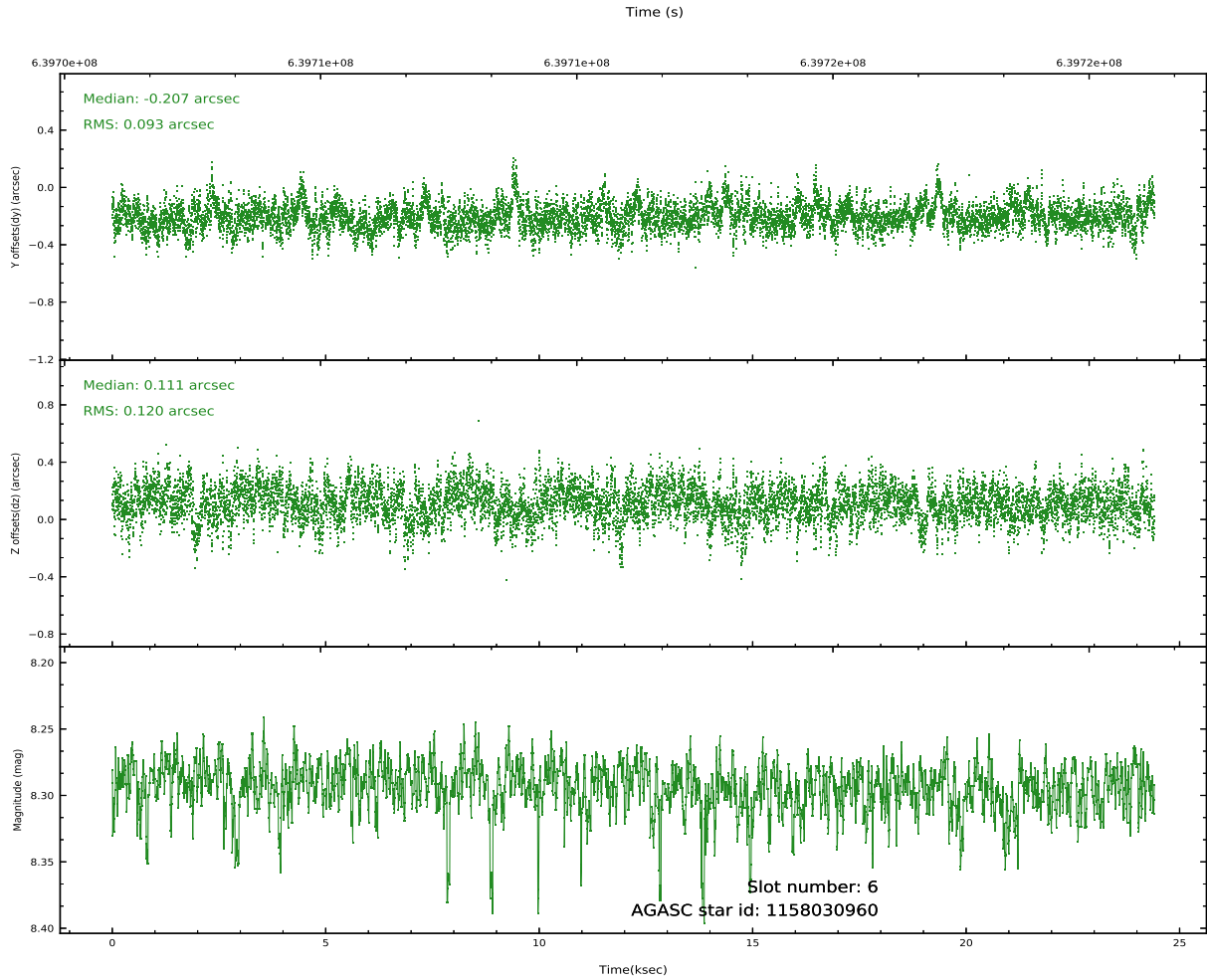
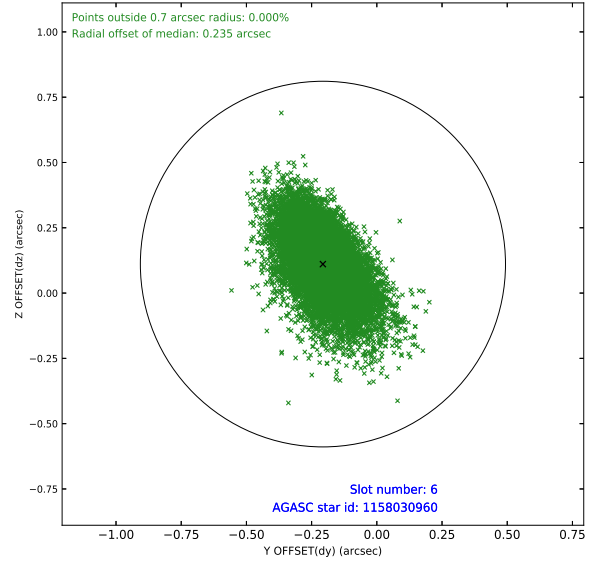
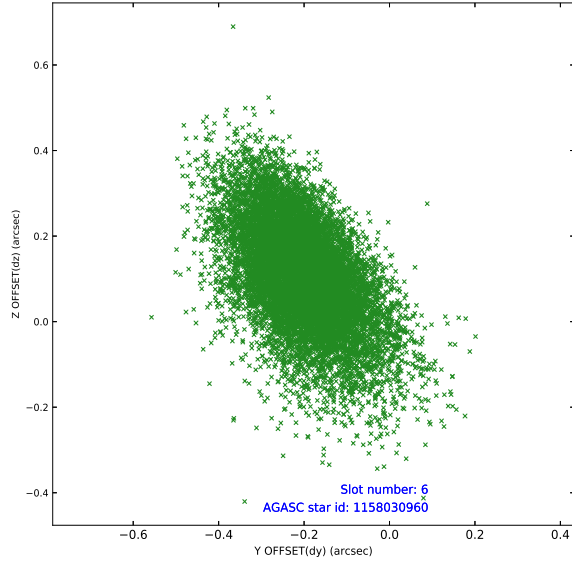
2.4.3 Slot 5



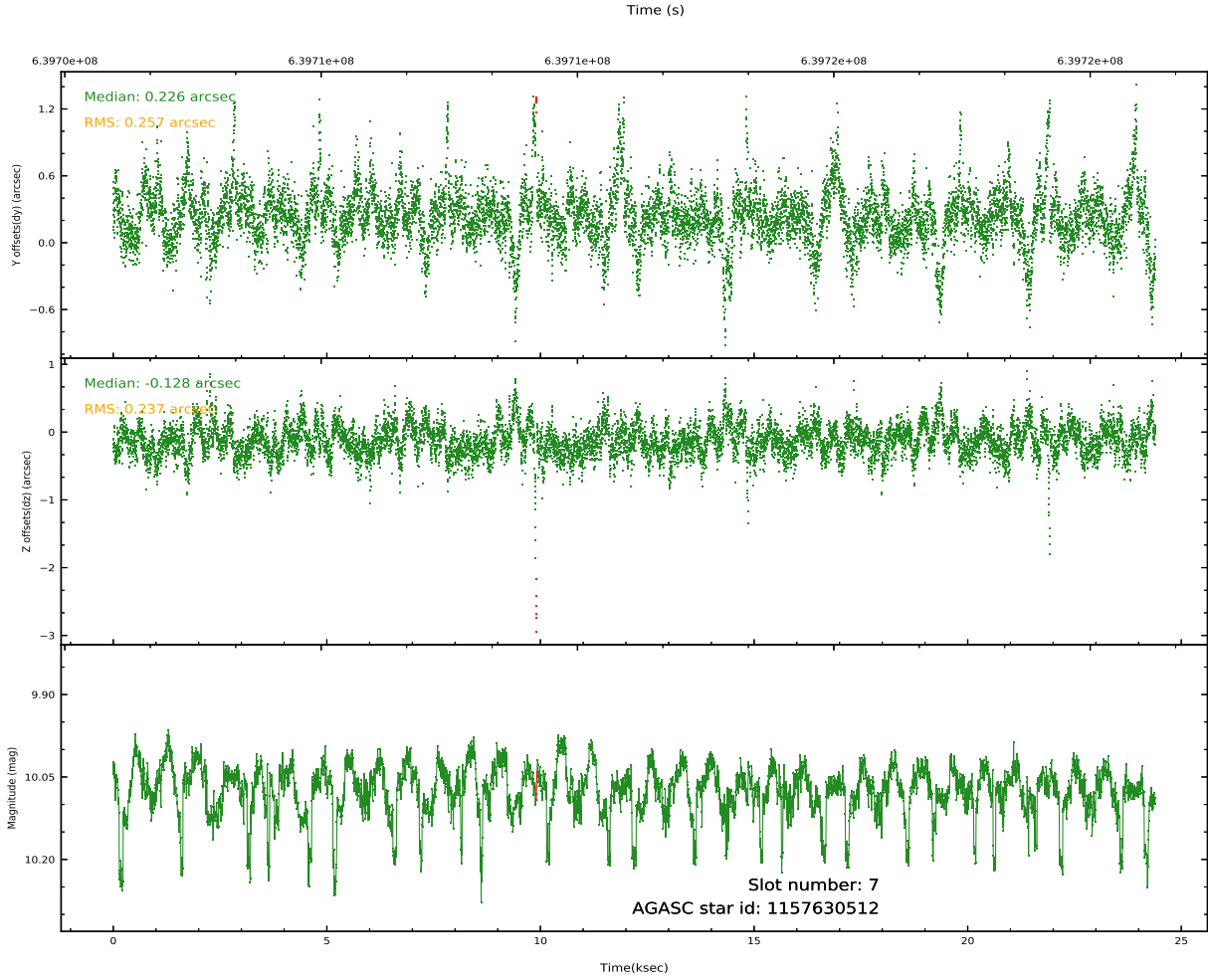
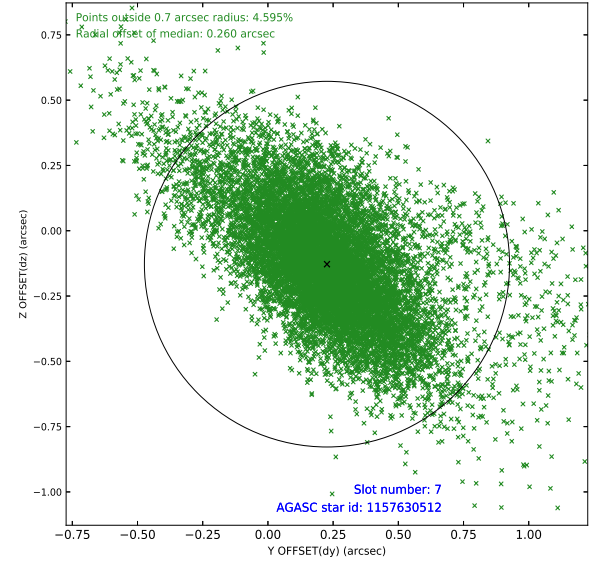
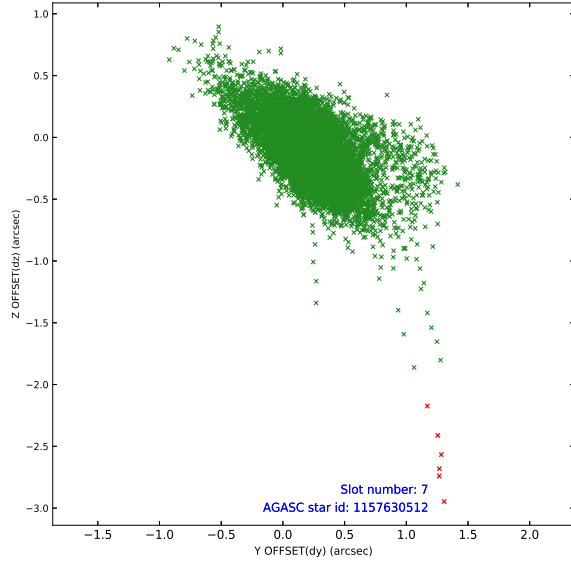
Time (s)



2.4.4 Slot 6

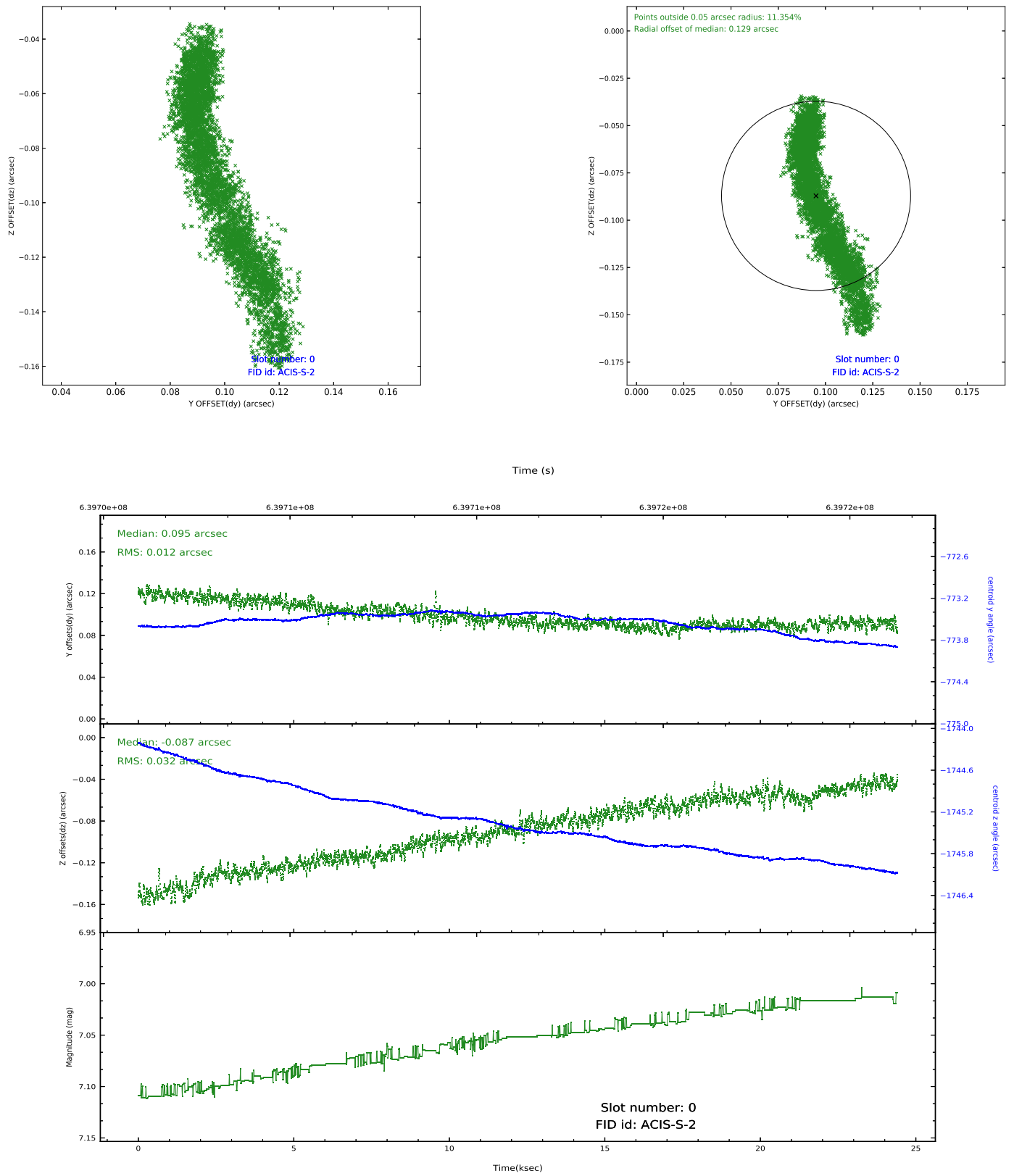


2.4.5 Slot 7

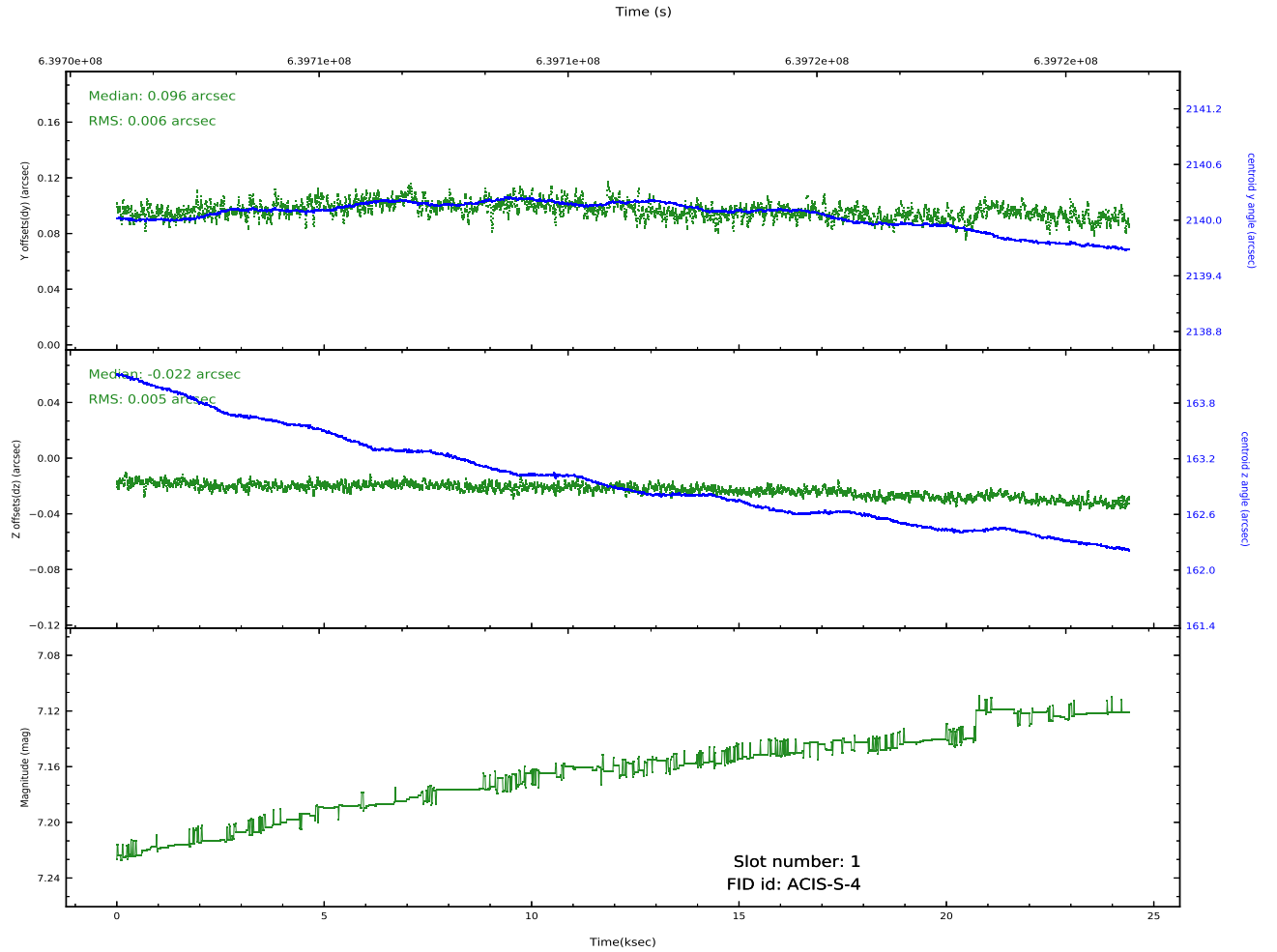
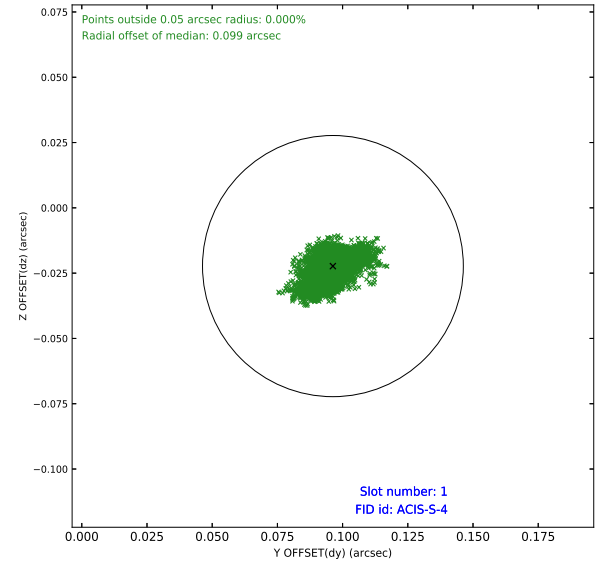
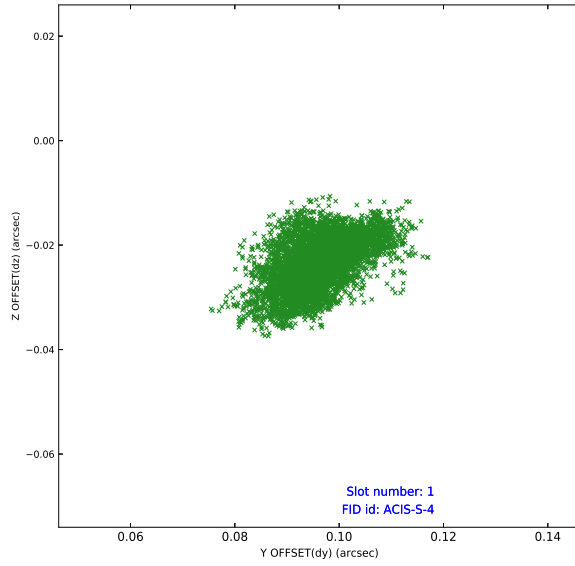


2.5 FID Slots

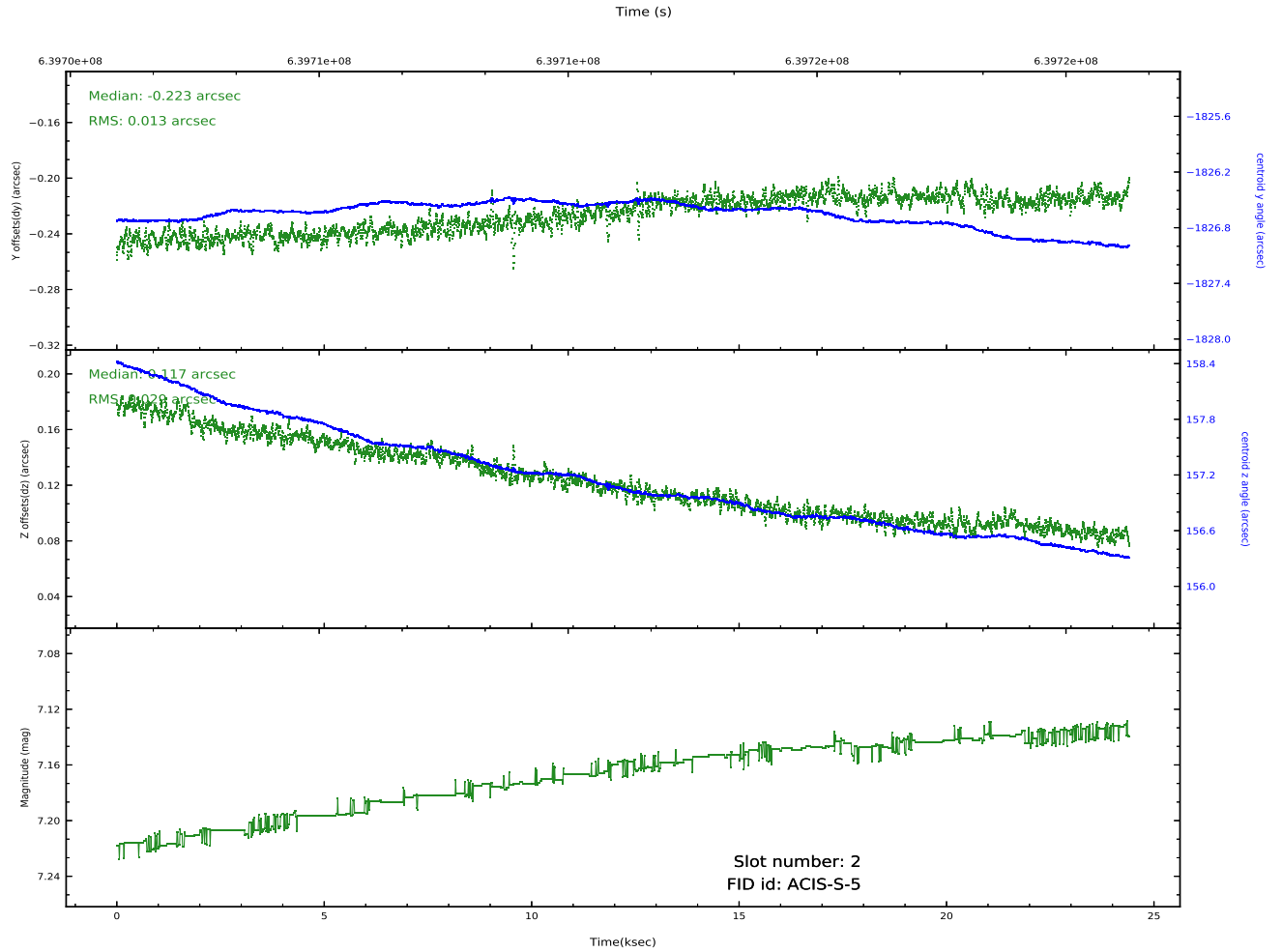
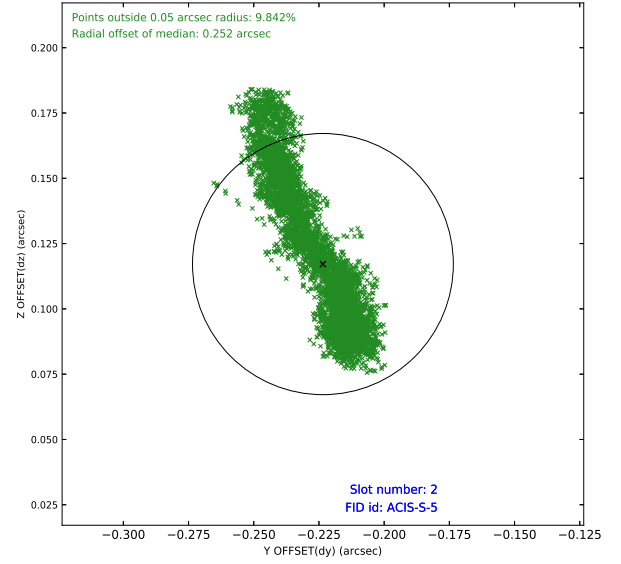
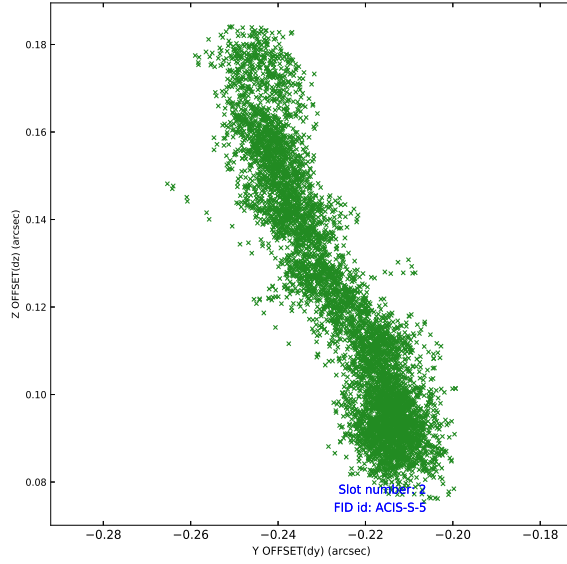
2.5.1 Slot 0



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)	2020.10.30
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	24.349235000372

A.2 Comments