

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20379 - L2 Version 2
Chandra X-Ray Center

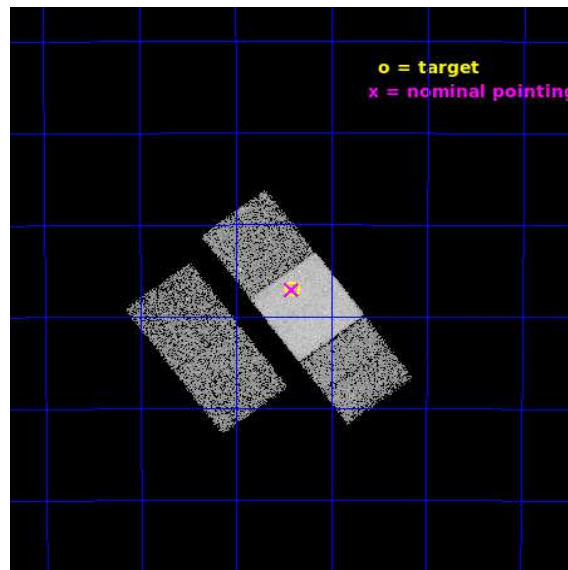
L2 Processing Date : Oct 26 2020

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1 Front

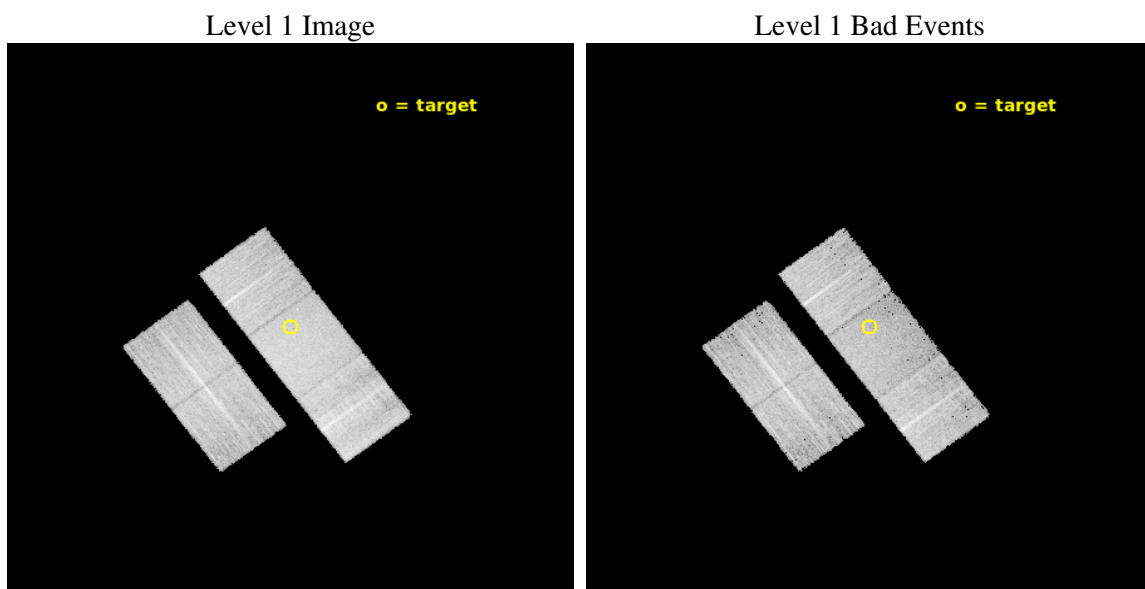
seq_num	703484	Sequence number
obs_id	20379	Observation id
title	HEAVILY REDDENED, LUMINOUS TYPE 1 QSOs: A TRANSITION POPULATION EMERGING FROM THE DUST	Proposal title
observer	Enrico Piconcelli	Principal investigator
object	VHSJ2141-4816	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	325.352917	Observer's specified target RA [deg]
dec_targ	-48.283	Observer's specified target Dec [deg]
ra_nom	325.35324866714	Nominal RA [deg]
dec_nom	-48.284958123672	Nominal Dec [deg]
roll_nom	53.207268901868	Nominal Roll [deg]
revision	2	Processing version of data
ontime	9054.5871158838	Sum of GTIs [s]
livetime	8936.2822693247	Livetime [s]
ontime2	9054.4229558706	Sum of GTIs [s]
ontime3	9054.5050358772	Sum of GTIs [s]
ontime6	9054.5460759401	Sum of GTIs [s]
ontime7	9054.5871158838	Sum of GTIs [s]
ontime8	9054.4639959335	Sum of GTIs [s]
l2events	63878	Number of level 2 events



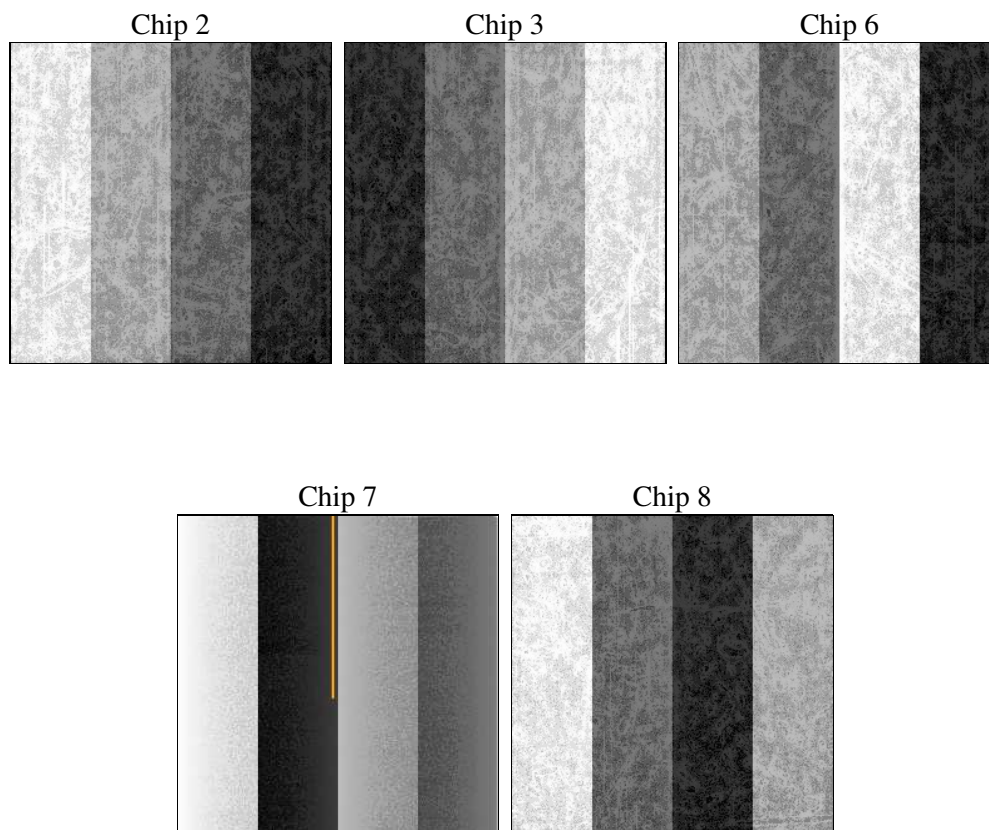
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	9000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	9054.5871158838	Sum of GTIs [s]
caldsver	4.9.3	 	ontime2	9054.4229558706	Sum of GTIs [s]
date	2020-10-26T19:38:03	Date and time of file creation	ontime3	9054.5050358772	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	9054.5460759401	Sum of GTIs [s]
			ontime7	9054.5871158838	Sum of GTIs [s]
			ontime8	9054.4639959335	Sum of GTIs [s]
			l1events	390657	Number of level 1 events

2.1.4 Events

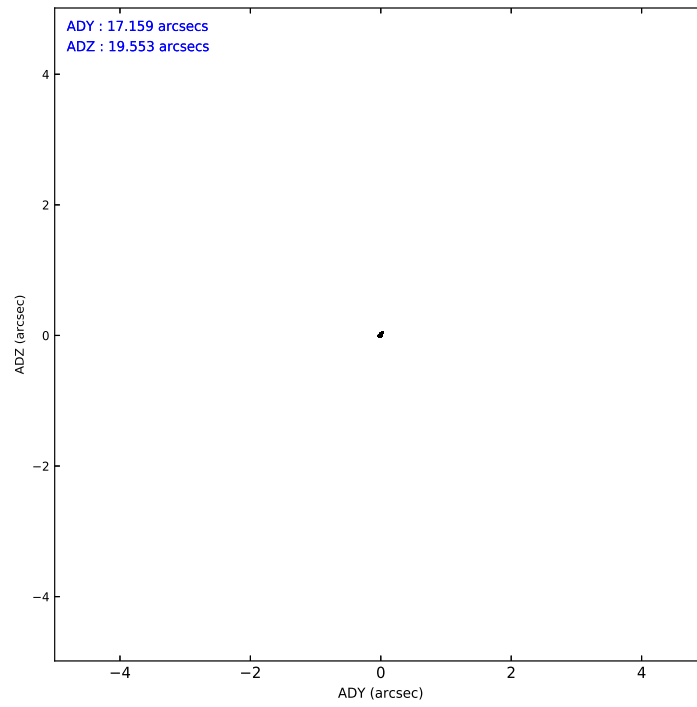
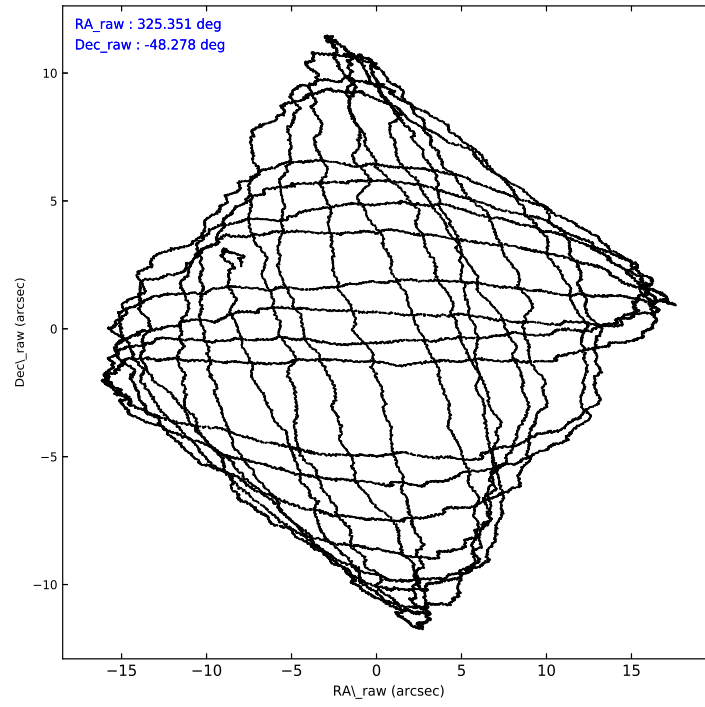
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	68203	69033	72653	88564	92204
rejected events	61015	61935	64579	50163	67329
rejected %	89%	89%	88%	56%	73%

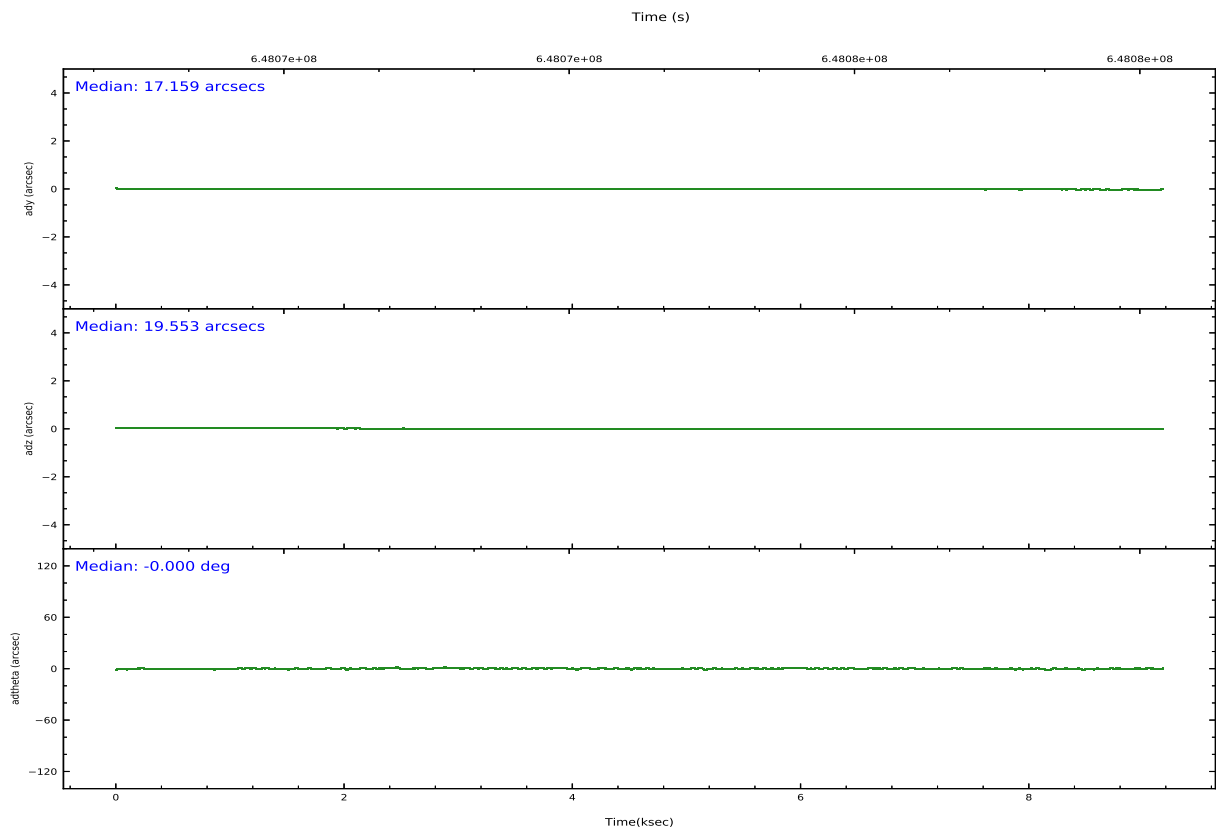
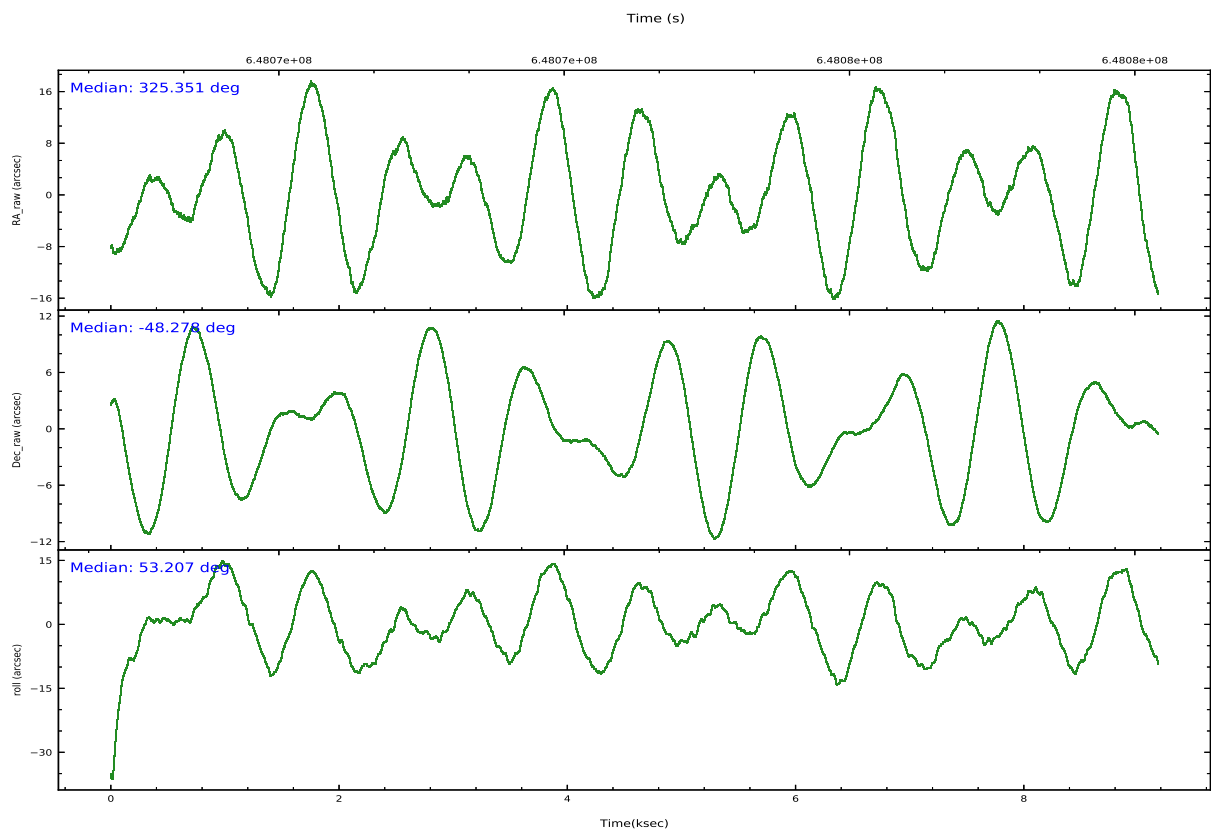
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	2574	2439	2788	3229	6837
	3%	3%	3%	3%	7%
grade 1 events	44	32	32	125	86
	0%	0%	0%	0%	0%
grade 2 events	1710	1558	1904	8133	5924
	2%	2%	2%	9%	6%
grade 3 events	729	734	752	3088	2734
	1%	1%	1%	3%	2%
grade 4 events	718	756	735	2992	2508
	1%	1%	1%	3%	2%
grade 5 events	2799	3139	3177	8594	4857
	4%	4%	4%	9%	5%
grade 6 events	1460	1617	1899	20976	6878
	2%	2%	2%	23%	7%
grade 7 events	58169	58758	61366	41427	62380
	85%	85%	84%	46%	67%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-23678	ACIS-23678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	325.346668	325.35324866714	CCD I2 on	O1	Y
[deg] Pointing Dec	-48.304915	-48.284958123672	CCD I3 on	O2	Y
[deg] Pointing Roll	53.048437	53.207268901868	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	N	N
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	O3	Y
[s] Observation start time (MET)	648068704.184000	648067432.32543	CCD S5 on	N	N
Observation start date	2018-07-15T19:03:55	2018-07-15T18:43:52	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	648077704.184000	648078641.7261	On-chip summing requested	N	N
Observation end date	2018-07-15T21:33:55	2018-07-15T21:50:41	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



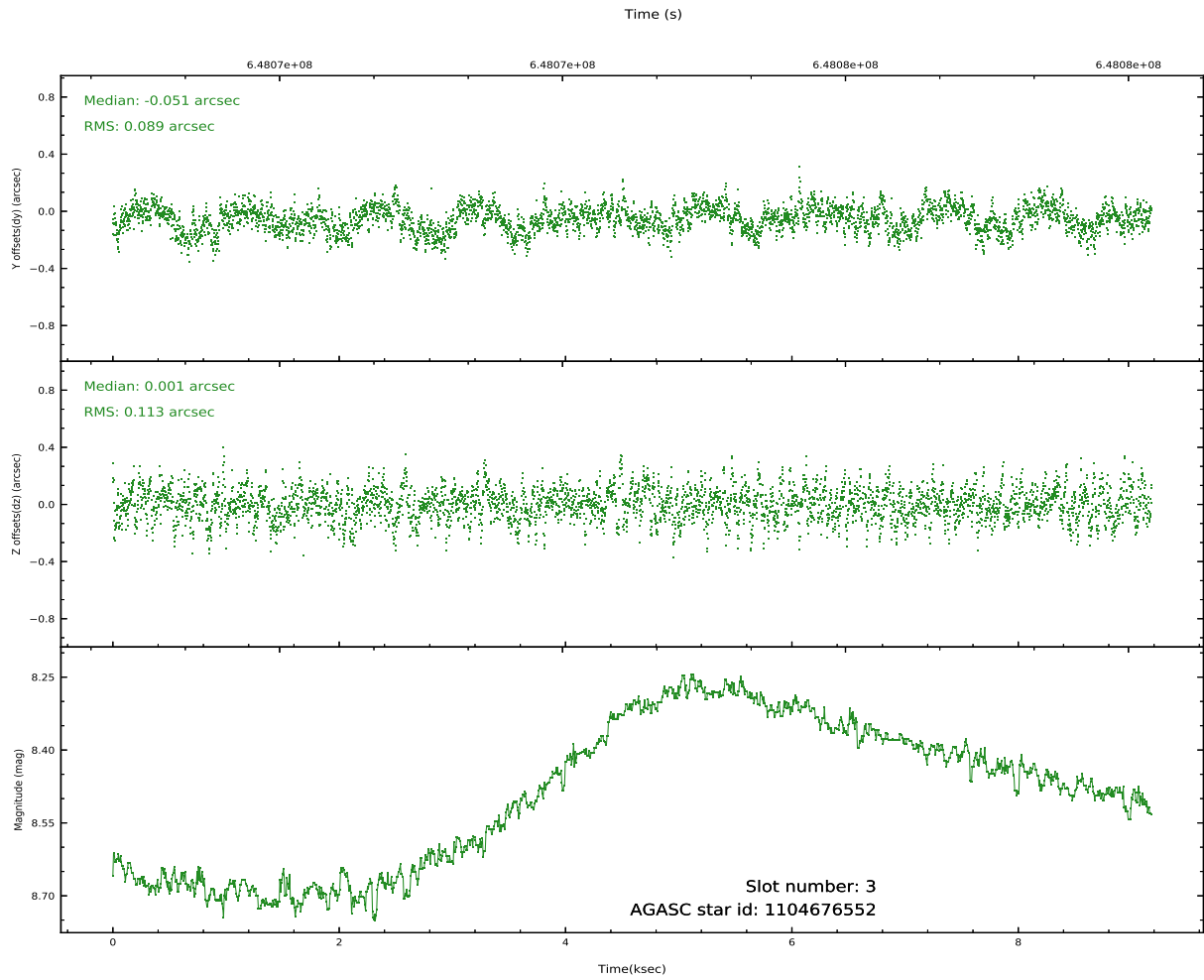
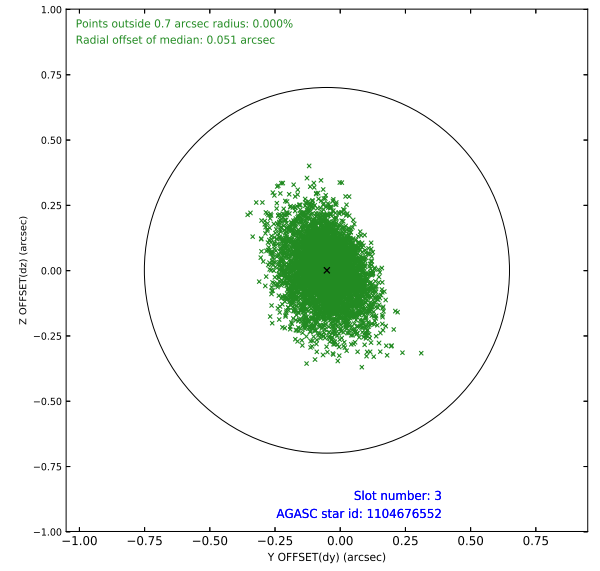
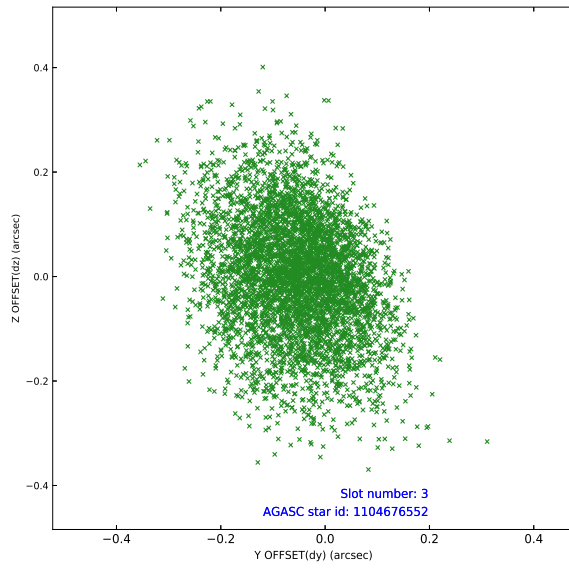


Slot Statistics

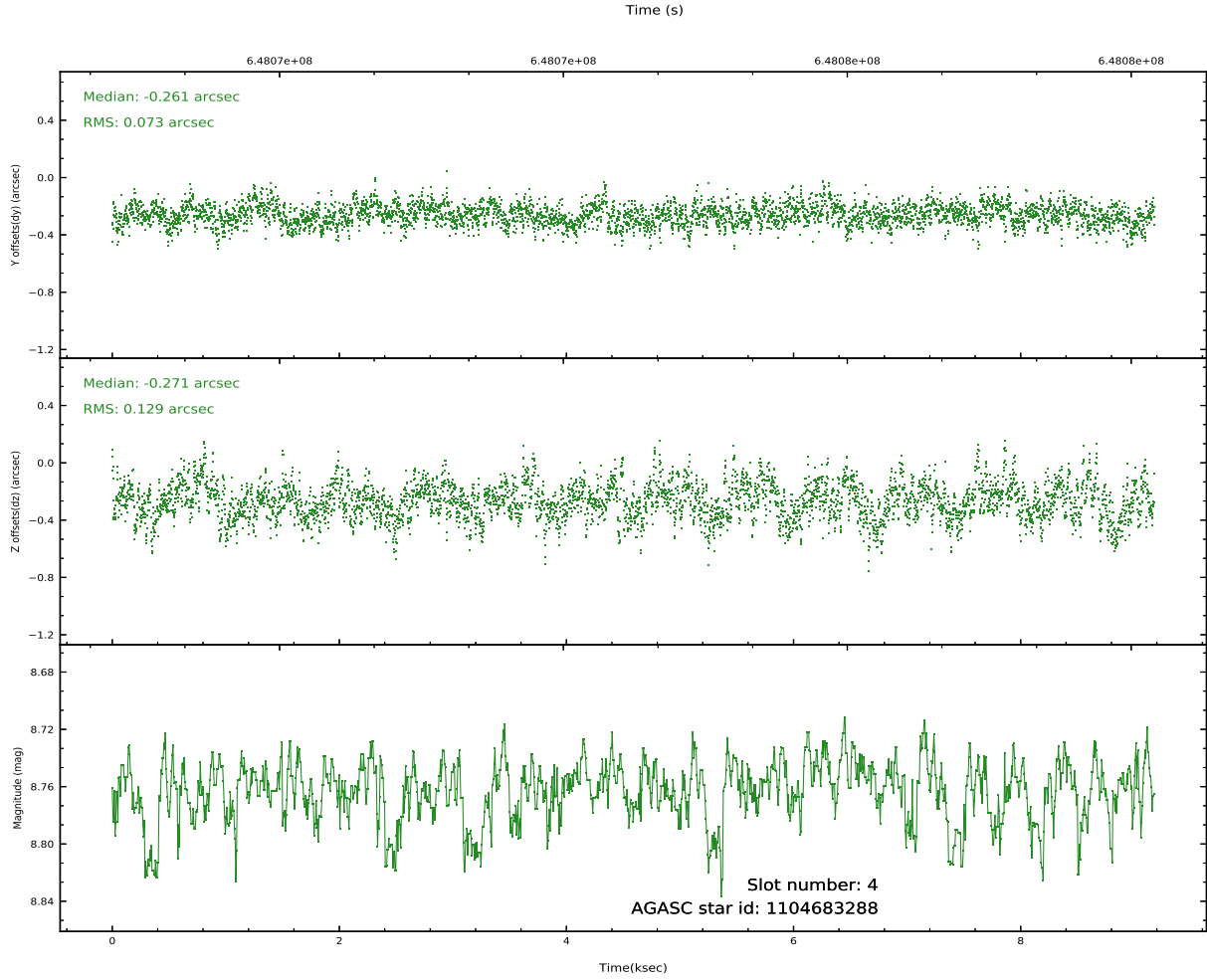
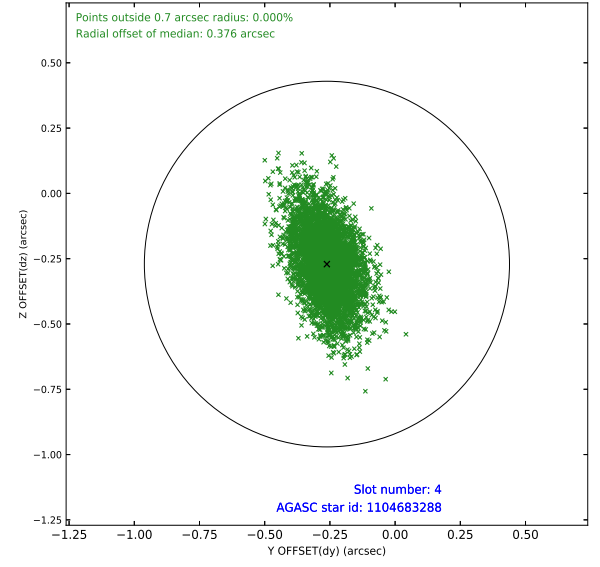
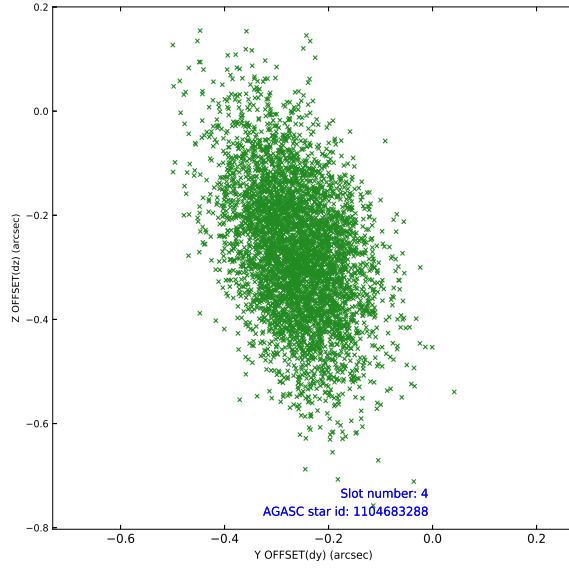
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.05	2239	1.000	-0.008	-0.001	0.007	0.012	0.000000	0.000000	-770.32	-1740
1	FID		ACIS-S-4	7.15	2239	1.000	0.105	-0.039	0.007	0.011	0.000000	0.000000	2142.93	166
2	FID		ACIS-S-6	7.30	2239	1.000	-0.124	0.047	0.008	0.014	0.000000	0.000000	392.48	804
3	GUIDE	used	1104676552	8.47	4476	1.000	-0.051	0.001	0.151	0.256	325.767581	-48.189500	936.34	-558
4	GUIDE	used	1104683288	8.76	4475	1.000	-0.261	-0.271	0.150	0.272	325.353265	-47.898801	1178.23	865
5	GUIDE	used	1105200952	9.19	4475	1.000	0.007	-0.023	0.196	0.332	325.204910	-48.822910	-1691.63	-852
6	GUIDE	used	1105204296	8.64	4468	1.000	0.246	0.117	0.147	0.260	325.884186	-48.855883	-823.60	-2213
7	GUIDE	used	1105202680	9.00	4470	1.000	0.063	0.177	0.171	0.282	324.994071	-48.946203	-2346.78	-723

2.4 Star Slots

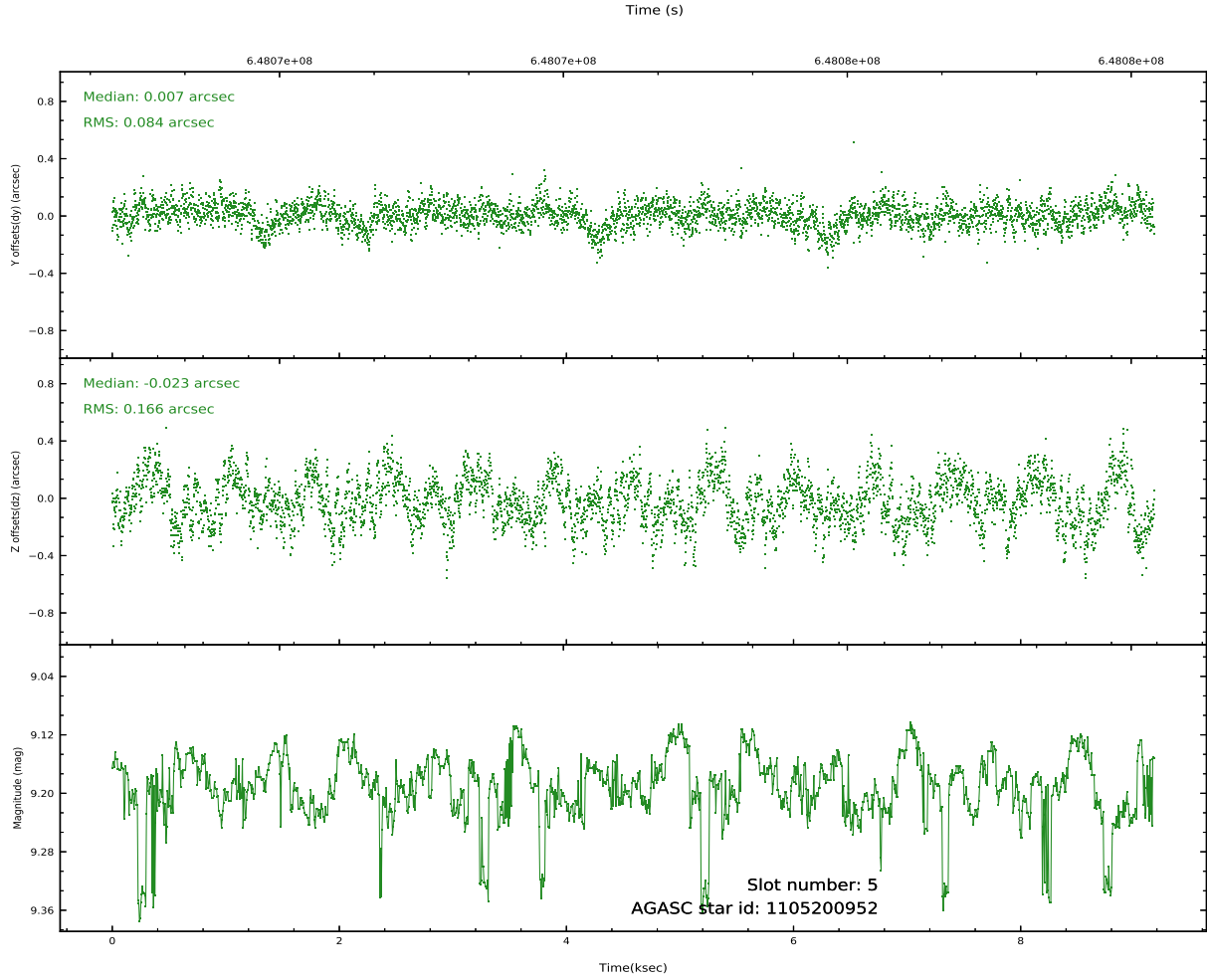
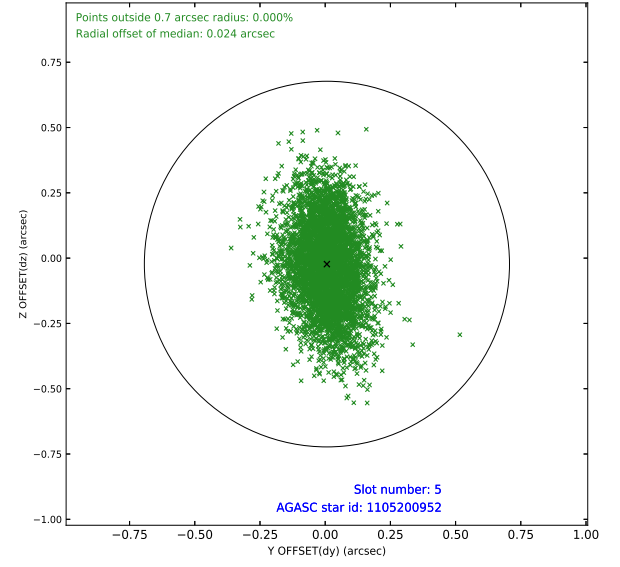
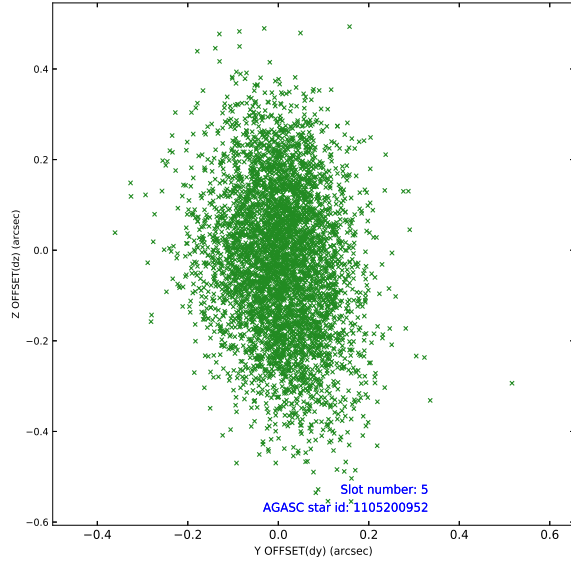
2.4.1 Slot 3



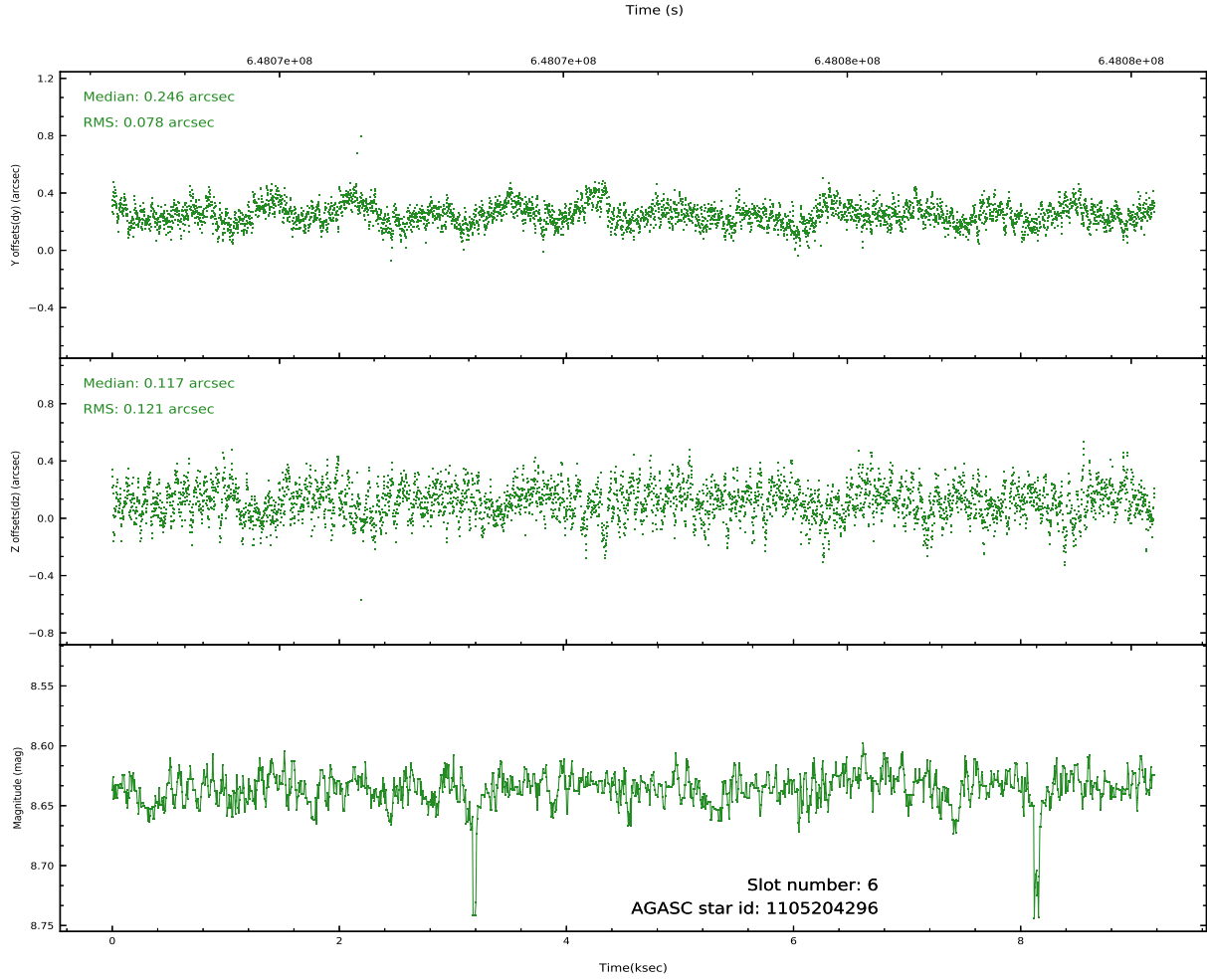
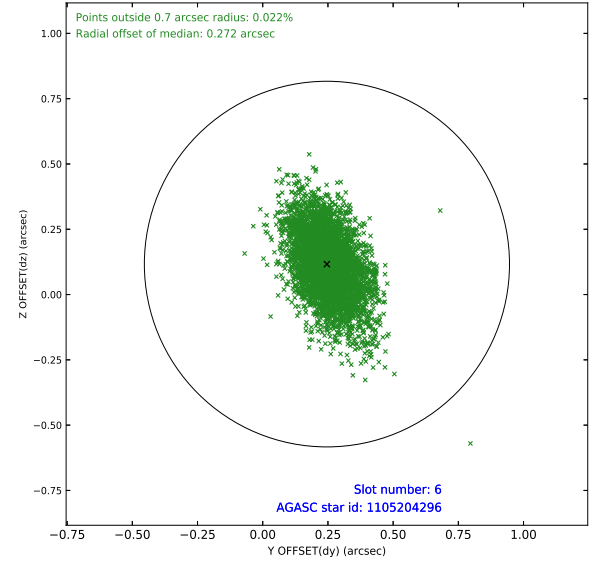
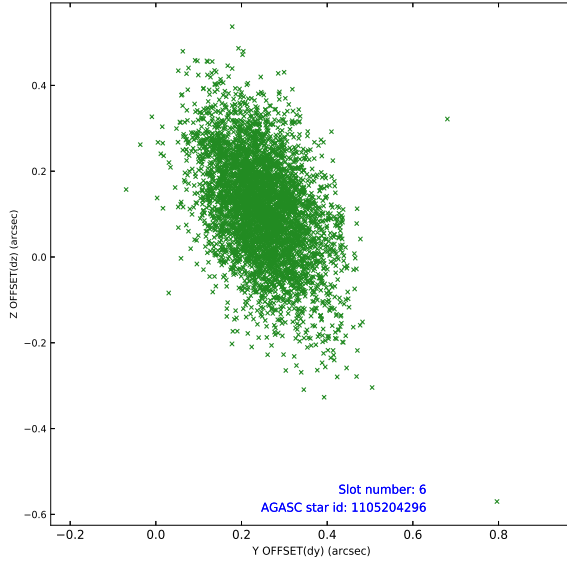
2.4.2 Slot 4



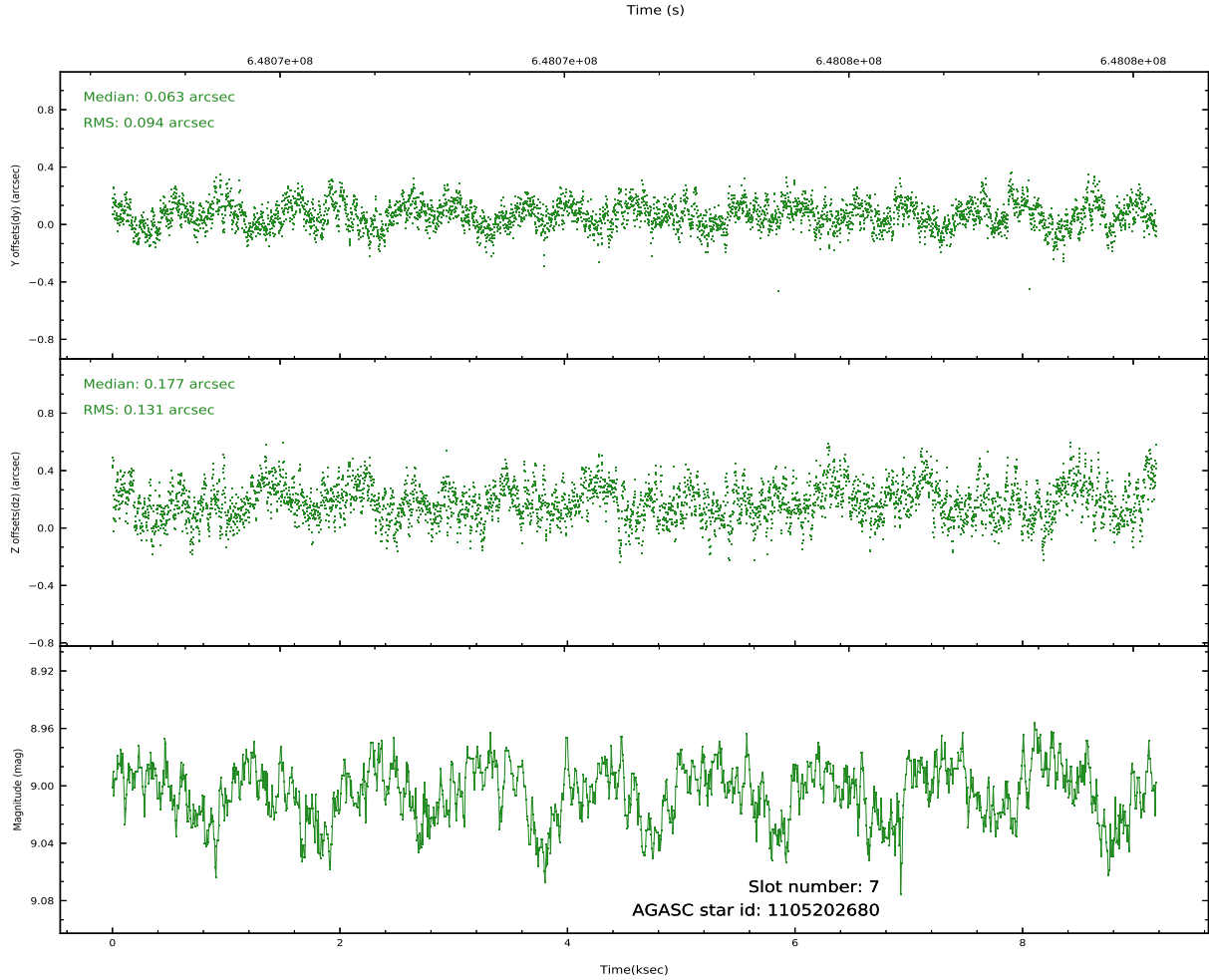
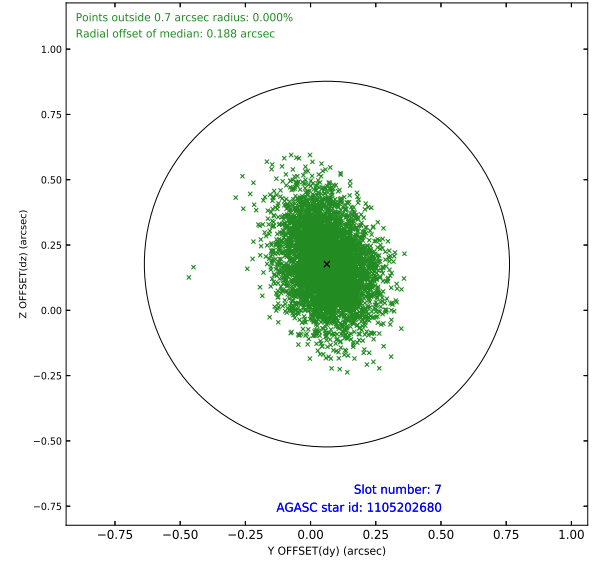
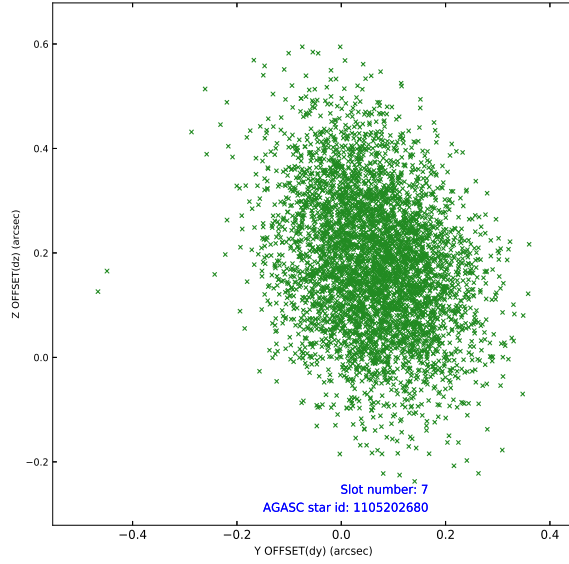
2.4.3 Slot 5



2.4.4 Slot 6

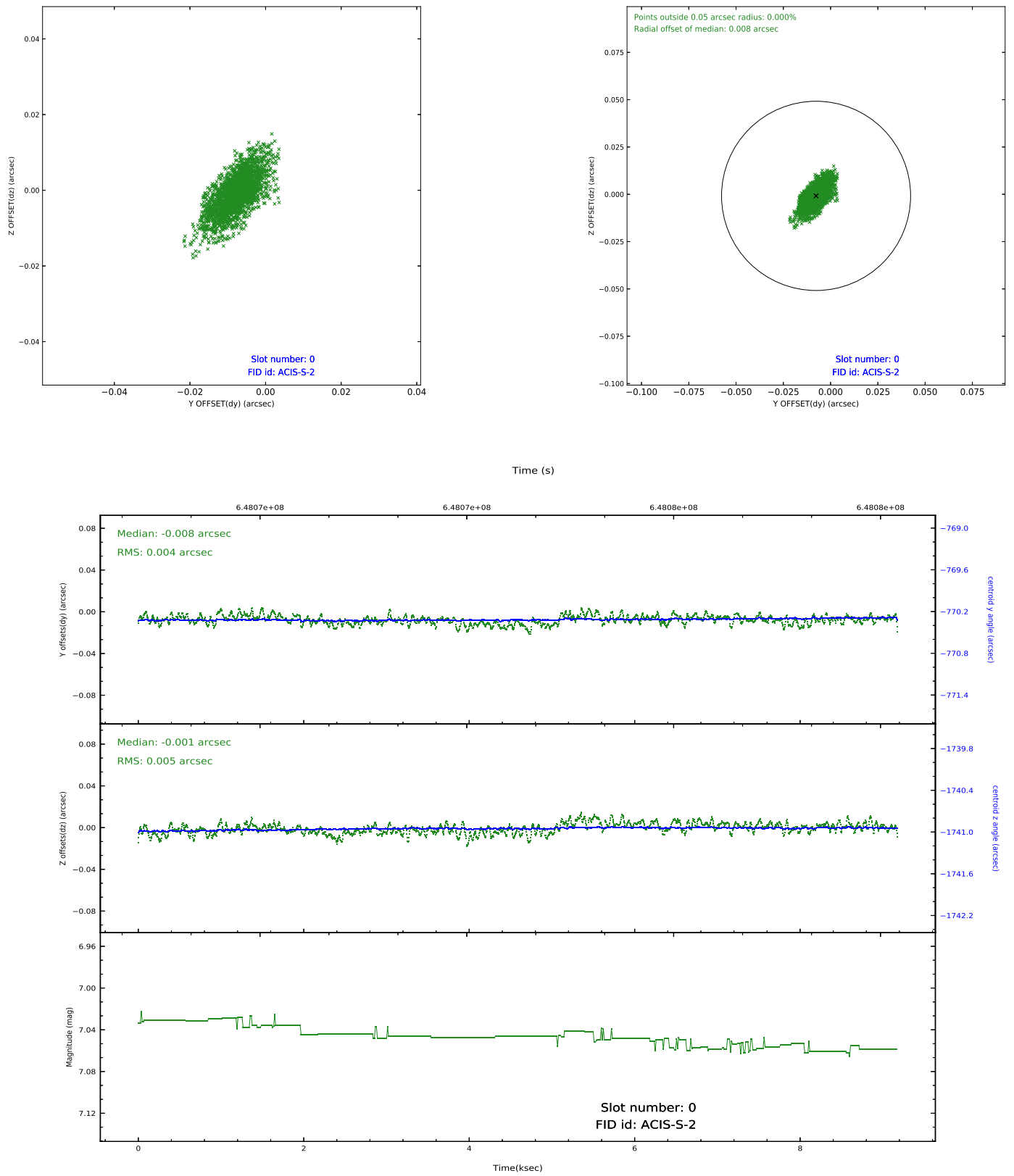


2.4.5 Slot 7

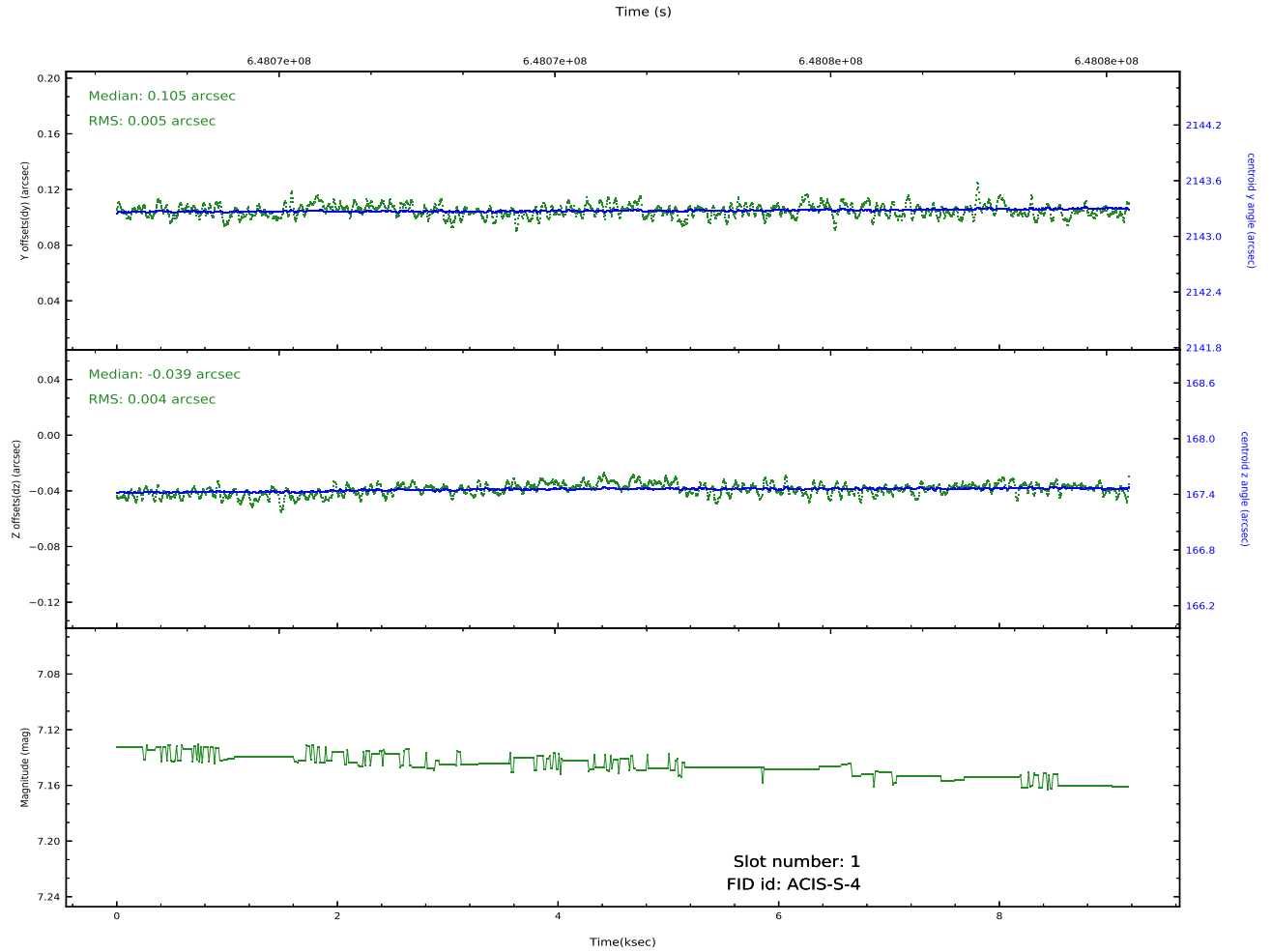
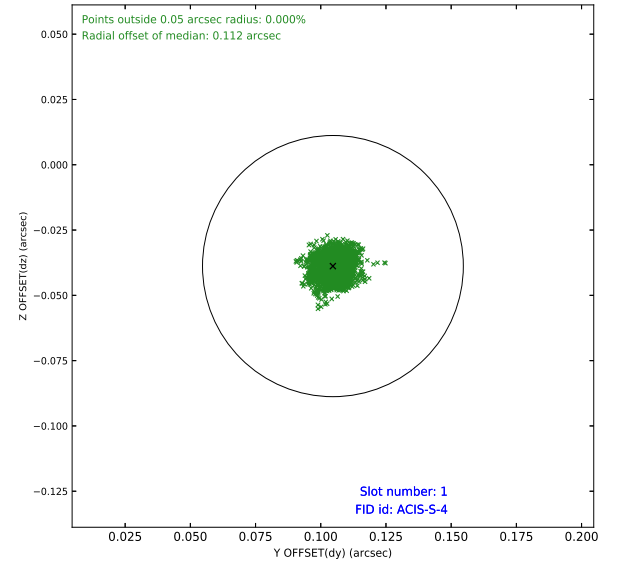
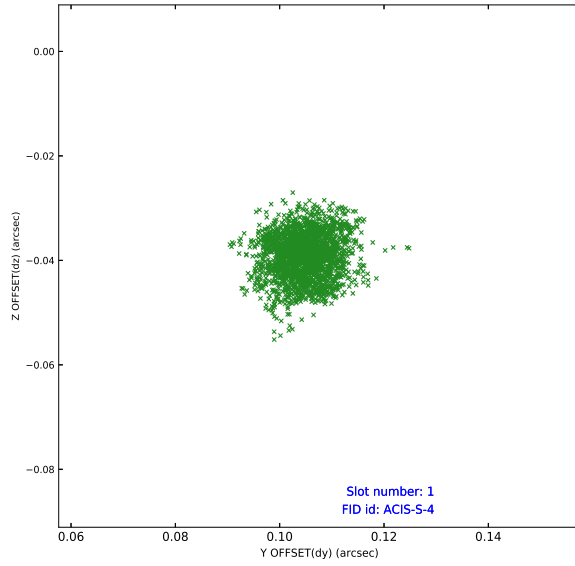


2.5 FID Slots

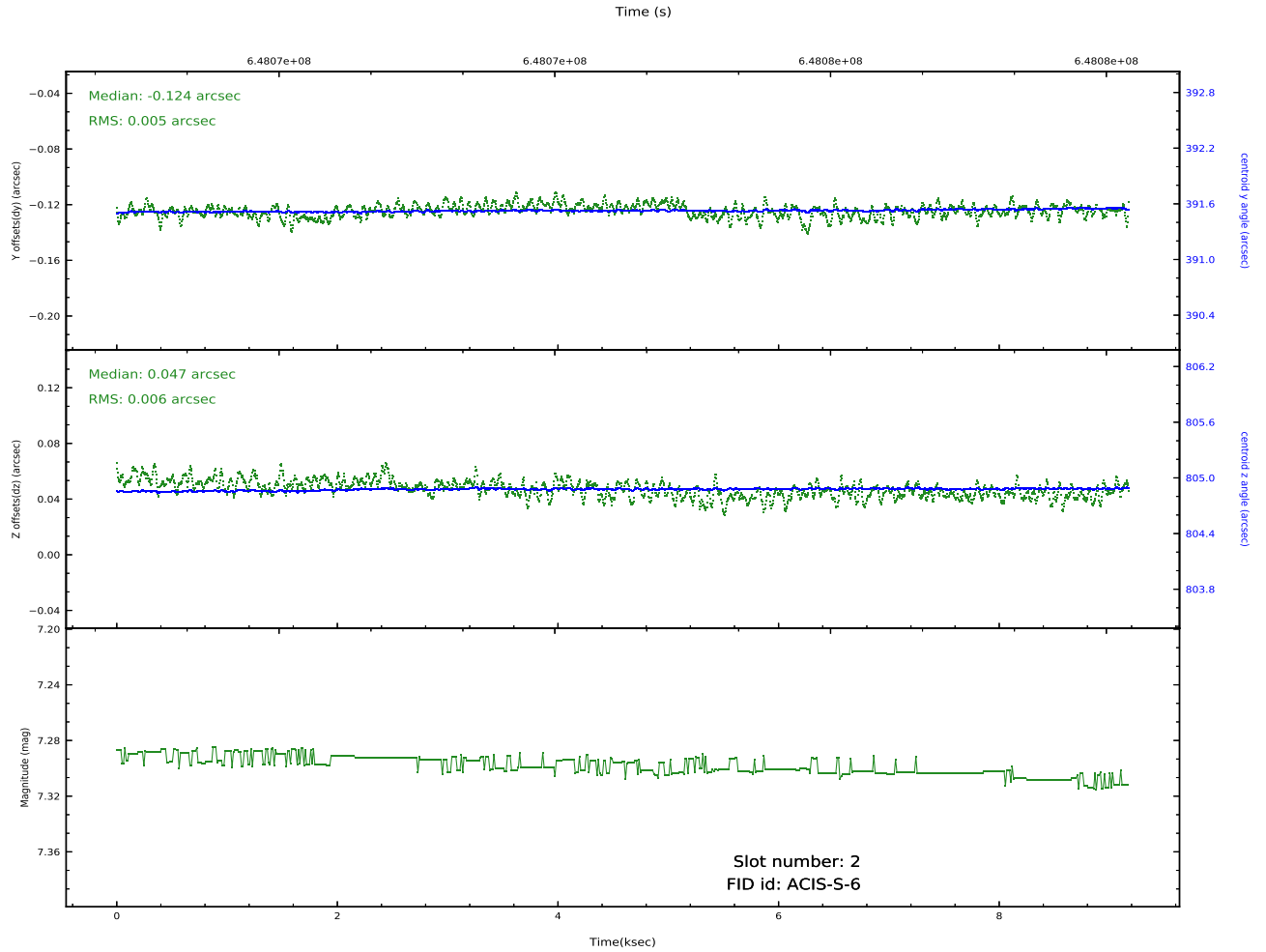
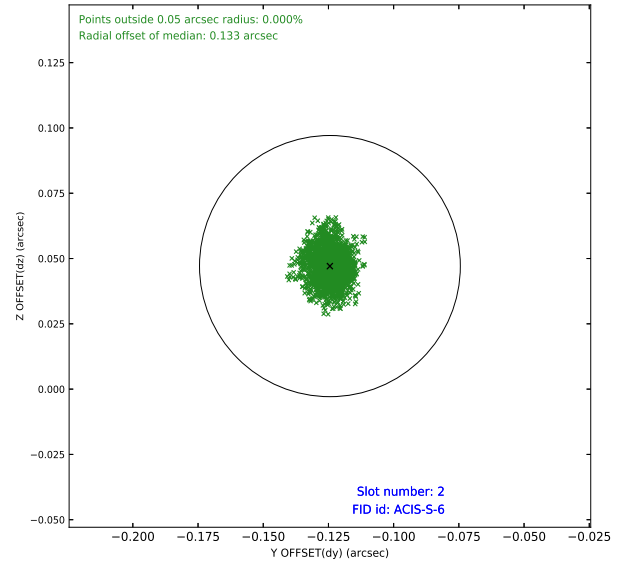
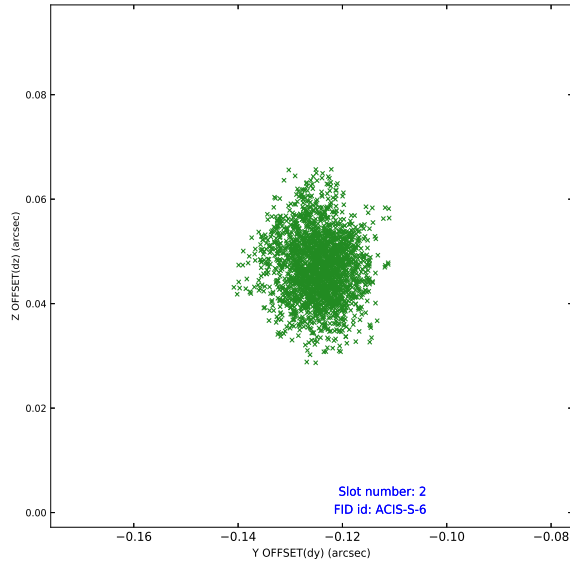
2.5.1 Slot 0



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)	2020.10.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	9.0545871200562

A.2 Comments