

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5898 - L2 Version 4
Chandra X-Ray Center

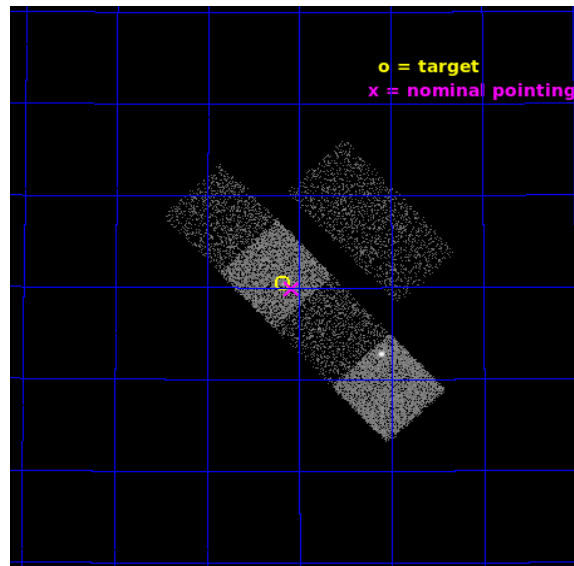
L2 Processing Date : Oct 6 2020

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1 Front

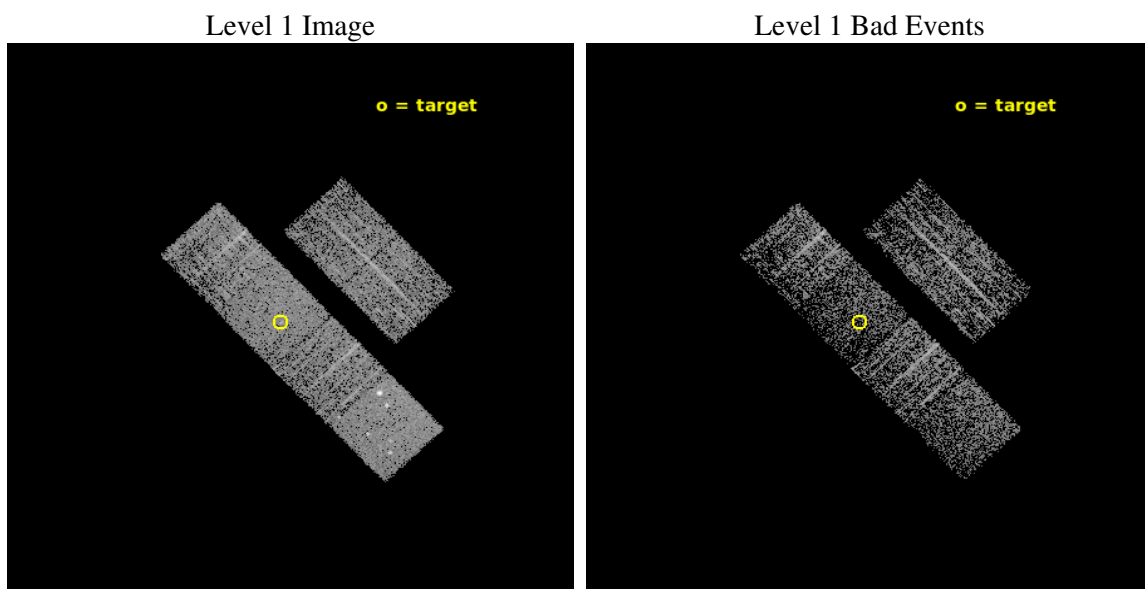
seq_num	600417	Sequence number
obs_id	5898	Observation id
title	Snapshot Observations of X-ray Bright Early-Type Galaxies	Proposal
observer	Dr. Stephen Murray	Principal investigator
object	NGC2340	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	107.795	Observer's specified target RA [deg]
dec_targ	50.174722	Observer's specified target Dec [deg]
ra_nom	107.77029030872	Nominal RA [deg]
dec_nom	50.16467264887	Nominal Dec [deg]
roll_nom	226.49417241415	Nominal Roll [deg]
revision	4	Processing version of data
ontime	1942.399992764	Sum of GTIs [s]
livetime	1917.8041544828	Livetime [s]
ontime2	1942.399992764	Sum of GTIs [s]
ontime3	1942.399992764	Sum of GTIs [s]
ontime5	1942.399992764	Sum of GTIs [s]
ontime6	1942.399992764	Sum of GTIs [s]
ontime7	1942.399992764	Sum of GTIs [s]
ontime8	1942.399992764	Sum of GTIs [s]
l2events	19770	Number of level 2 events



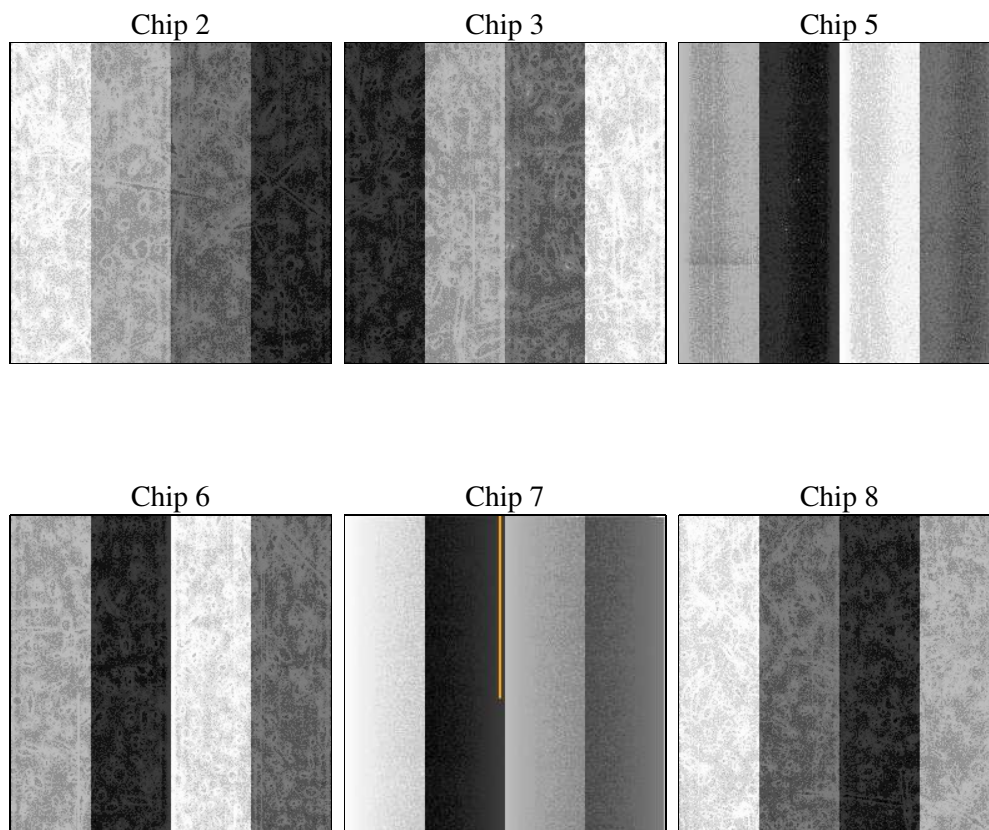
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	1942.399992764	Sum of GTIs [s]
caldsver	4.9.2	 	ontime2	1942.399992764	Sum of GTIs [s]
date	2020-10-06T14:48:14	Date and time of file creation	ontime3	1942.399992764	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	1942.399992764	Sum of GTIs [s]
			ontime6	1942.399992764	Sum of GTIs [s]
			ontime7	1942.399992764	Sum of GTIs [s]
			ontime8	1942.399992764	Sum of GTIs [s]
			l1events	82836	Number of level 1 events

2.1.4 Events

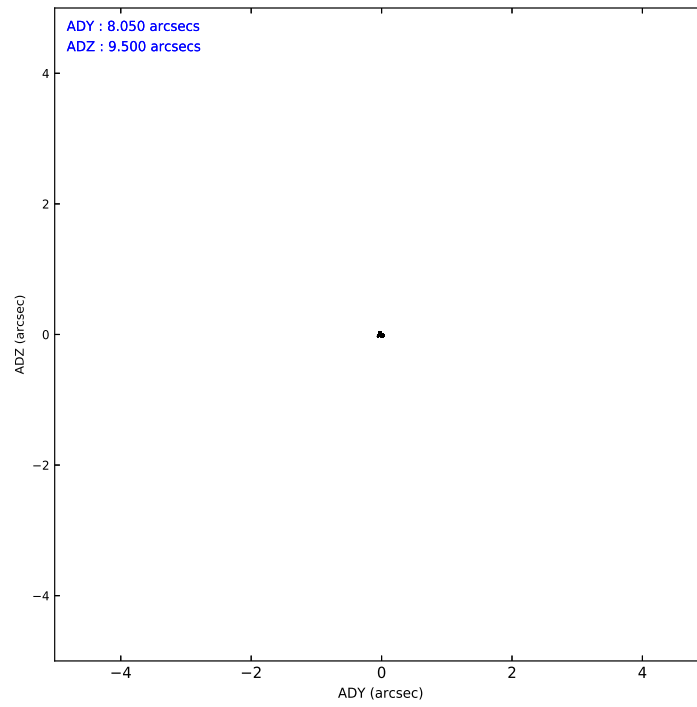
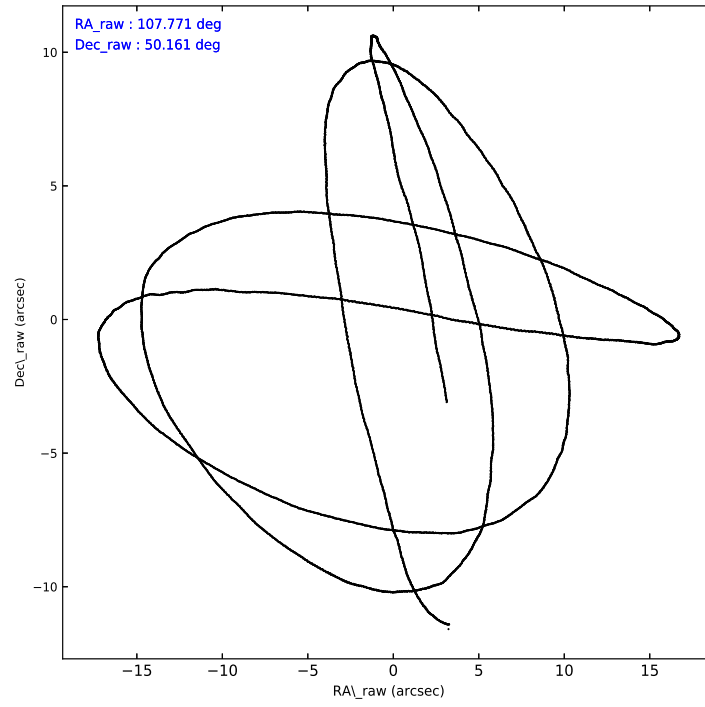
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	12473	11083	18403	13070	13637	14170
rejected events	11196	9911	8351	11550	7135	10962
rejected %	89%	89%	45%	88%	52%	77%

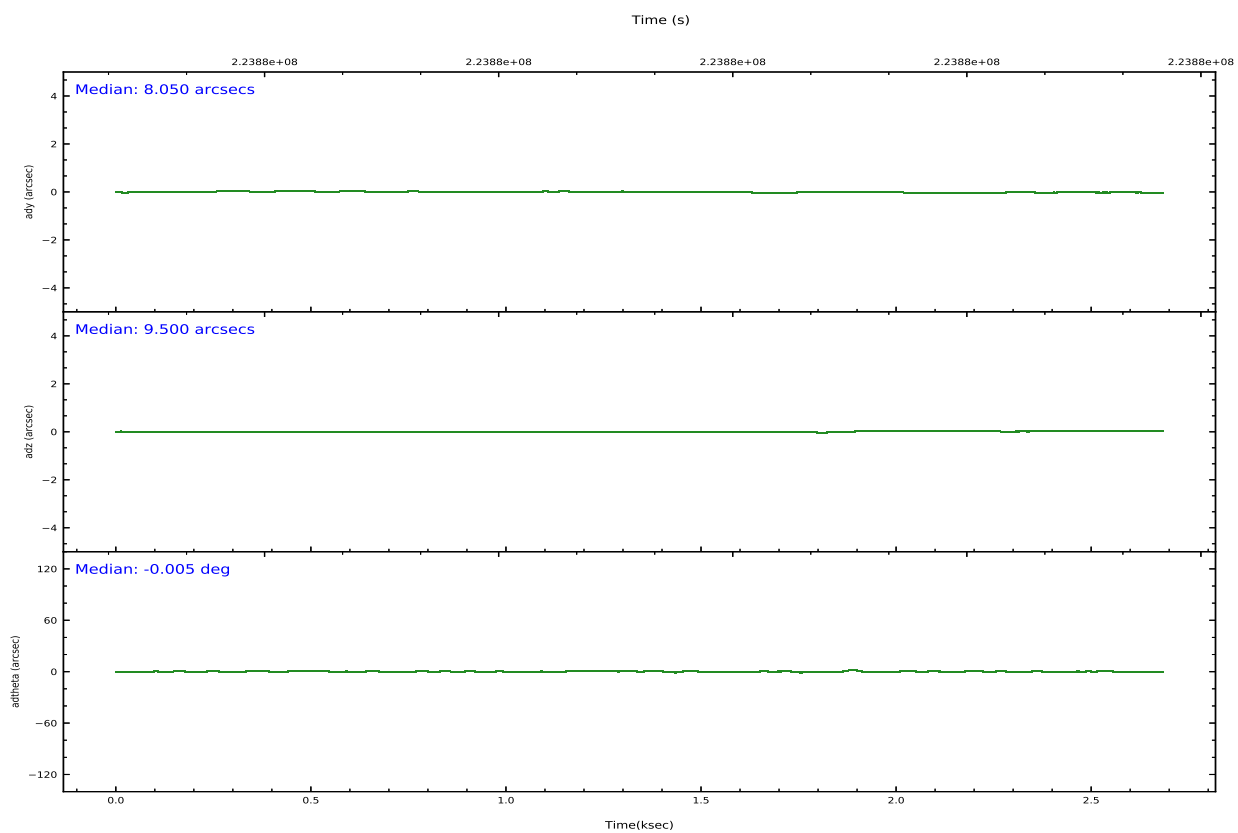
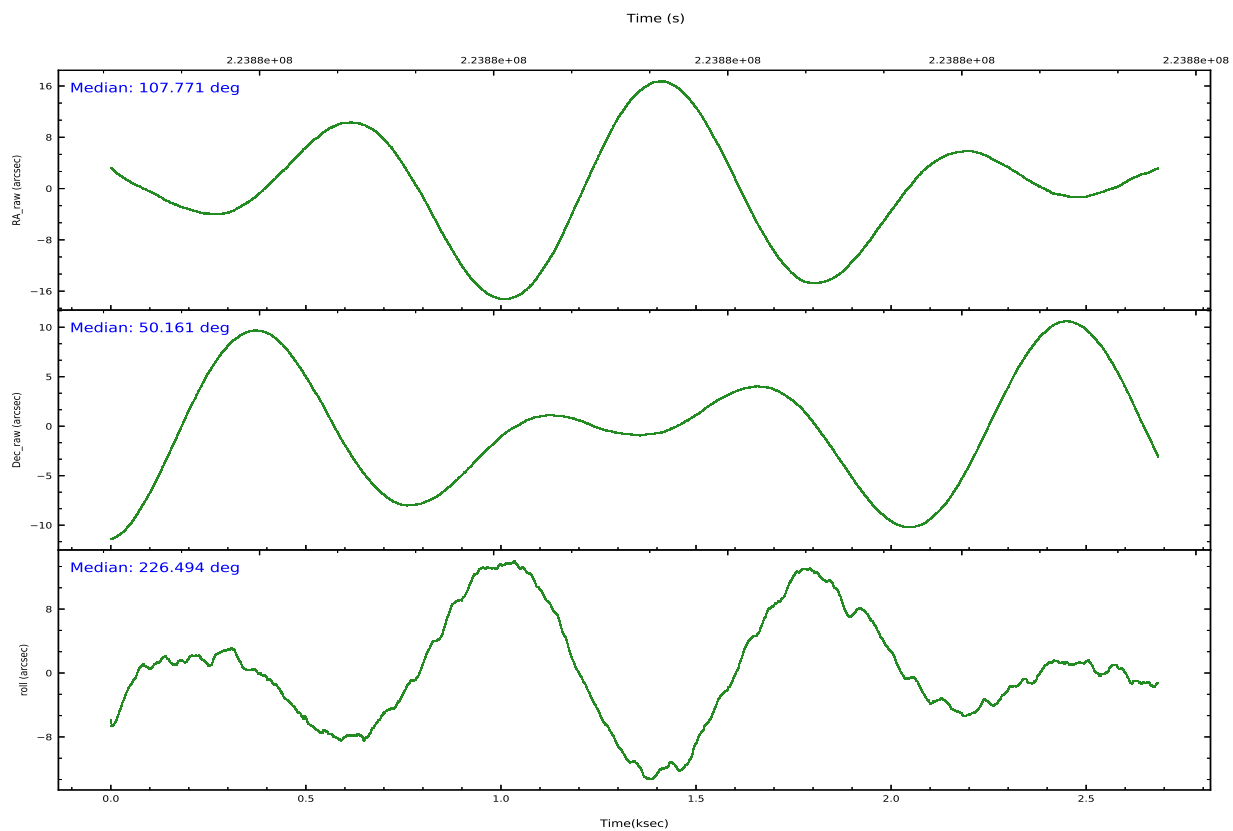
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	481	475	2002	662	719	987
	3%	4%	10%	5%	5%	6%
grade 1 events	4	6	33	7	6	5
	0%	0%	0%	0%	0%	0%
grade 2 events	271	216	2768	263	1383	747
	2%	1%	15%	2%	10%	5%
grade 3 events	139	135	443	162	603	297
	1%	1%	2%	1%	4%	2%
grade 4 events	132	115	461	167	590	273
	1%	1%	2%	1%	4%	1%
grade 5 events	401	451	1287	495	1408	665
	3%	4%	6%	3%	10%	4%
grade 6 events	256	233	4406	271	3228	914
	2%	2%	23%	2%	23%	6%
grade 7 events	10789	9452	7003	11043	5700	10282
	86%	85%	38%	84%	41%	72%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-235678	ACIS-235678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	107.780183	107.77029030872	Subarray requested	NONE	NONE
[deg] Pointing Dec	50.187468	50.16467264887	Alternating exposures requested	N	N
[deg] Pointing Roll	226.332254	226.49417241415	[s] Primary exposure time	0.000000	3.2
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	223878104.184000	223876894.02023			
Observation start date	2005-02-04T04:20:40	2005-02-04T04:01:34			
[s] Observation end time (MET)	223880104.184000	223880285.74538			
Observation end date	2005-02-04T04:54:00	2005-02-04T04:58:05			
Read mode	TIMED	TIMED			

2.3 Aspect



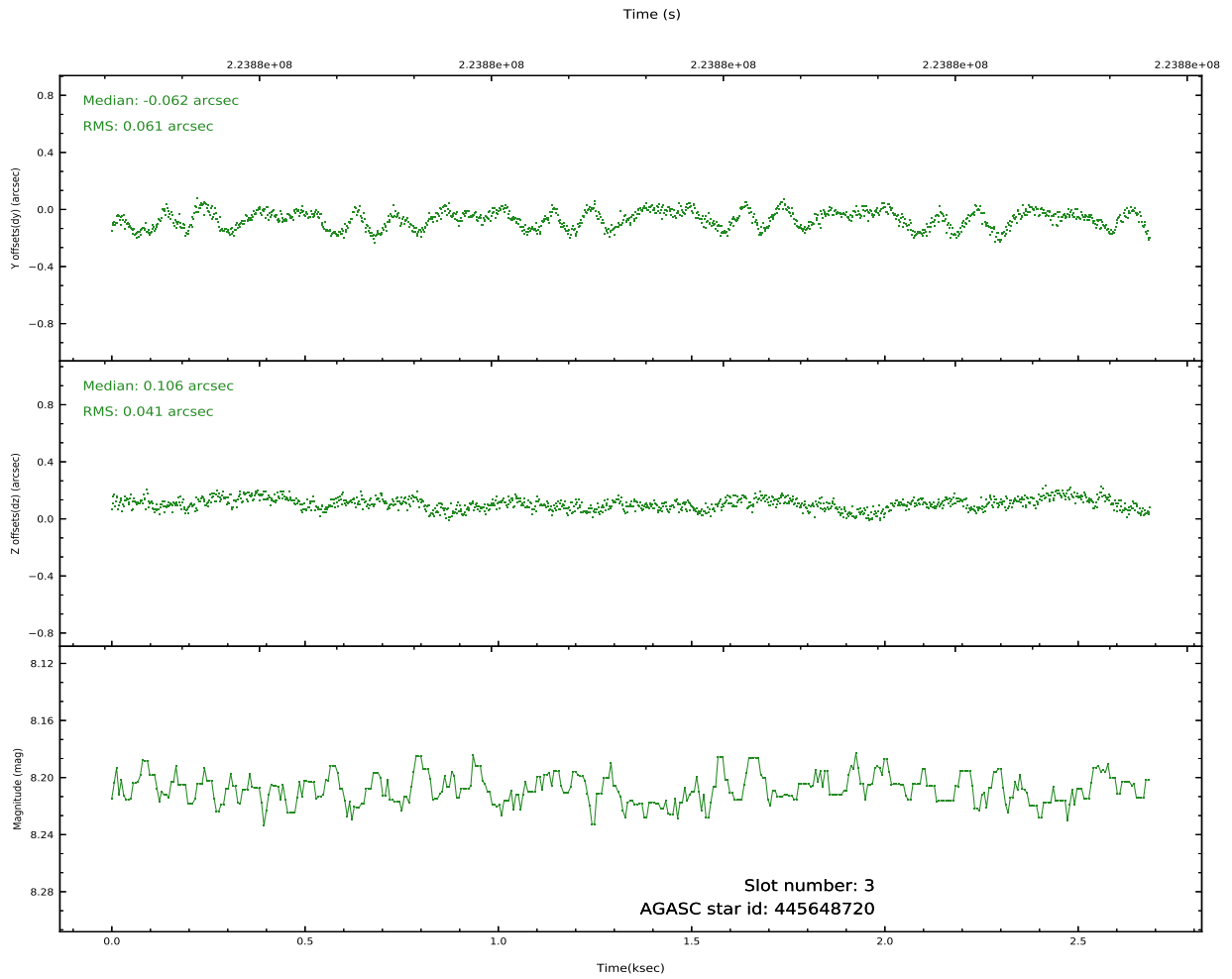
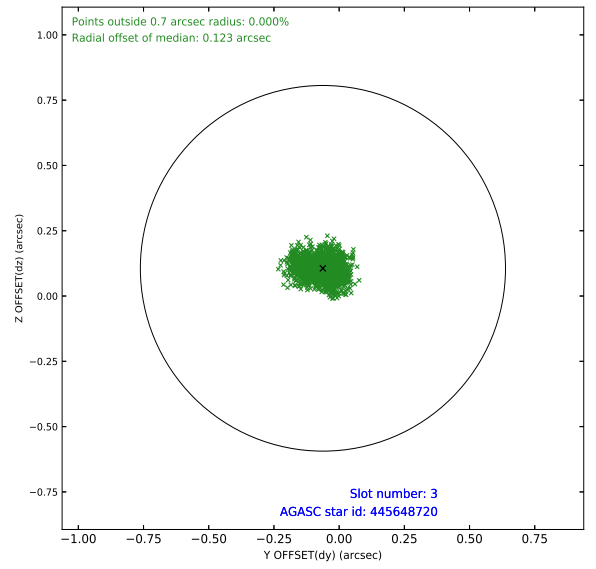
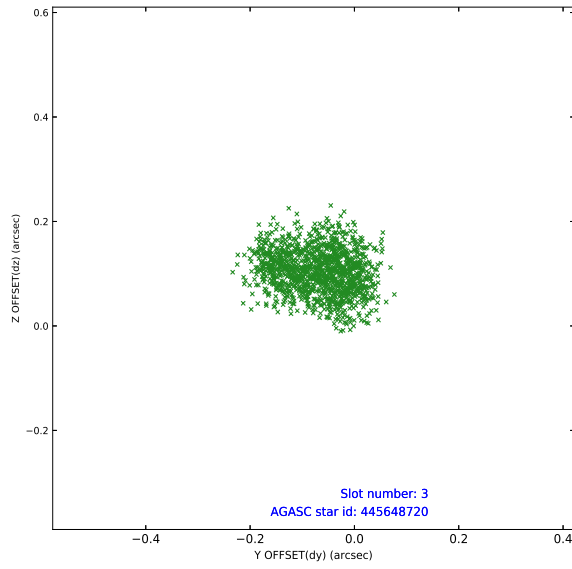


Slot Statistics

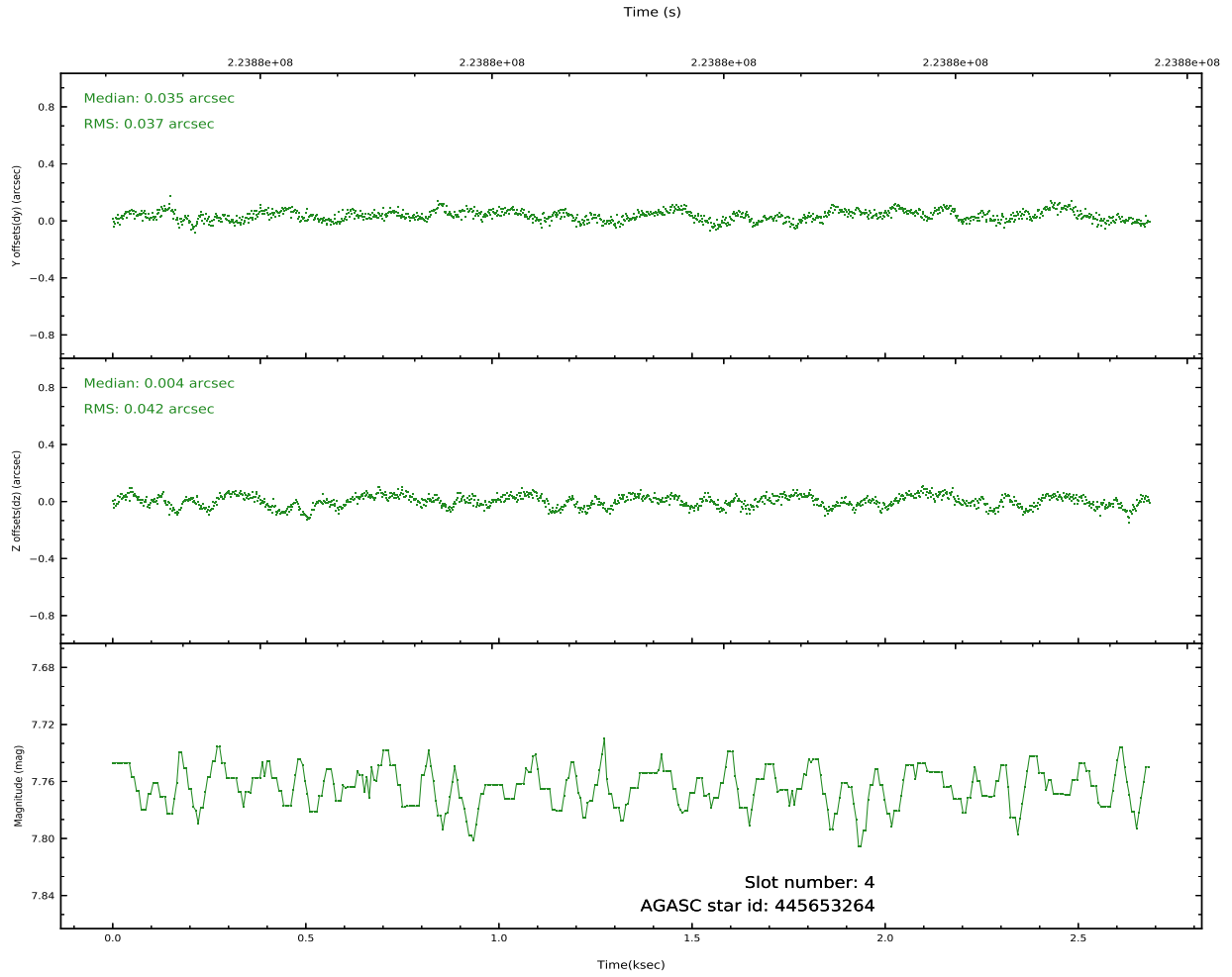
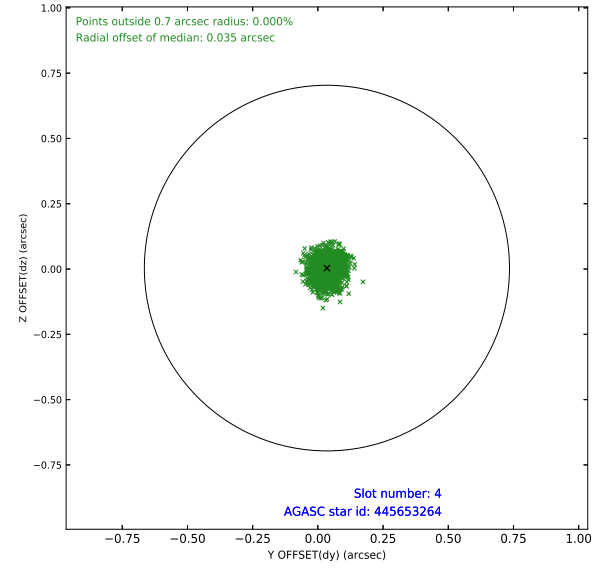
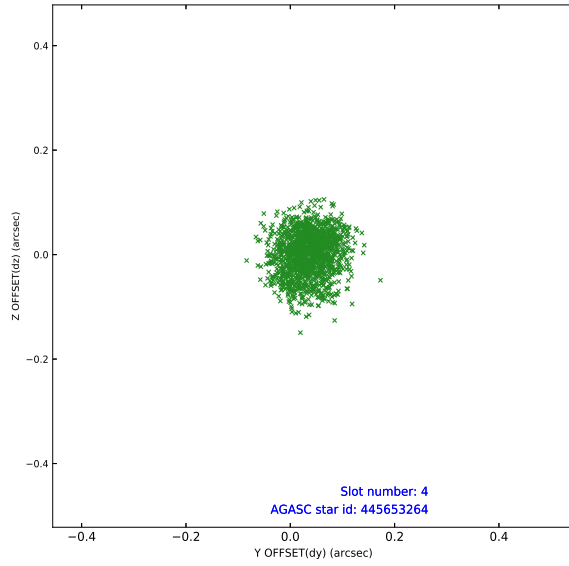
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.10	655	1.000	-0.002	-0.075	0.006	0.011	0.000000	0.000000	-760.79	-1730
1	FID		ACIS-S-5	7.24	655	1.000	-0.105	0.025	0.006	0.011	0.000000	0.000000	-1815.14	168
2	FID		ACIS-S-6	7.35	655	1.000	0.081	0.058	0.006	0.010	0.000000	0.000000	398.25	815
3	GUIDE	used	445648720	8.21	1311	1.000	-0.062	0.106	0.082	0.122	109.025109	50.091408	-1751.70	2302
4	GUIDE	used	445653264	7.76	1311	1.000	0.035	0.004	0.061	0.093	107.762900	49.901920	770.68	683
5	GUIDE	used	445653952	9.19	1309	1.000	0.029	0.110	0.145	0.227	108.228982	49.629720	728.73	2142
6	GUIDE	used	445655432	9.22	1309	1.000	0.056	-0.154	0.082	0.129	106.931820	50.295812	1058.59	-1686
7	GUIDE	used	445646688	8.60	1309	1.000	-0.047	-0.045	0.127	0.184	108.414088	50.558246	-1969.30	121

2.4 Star Slots

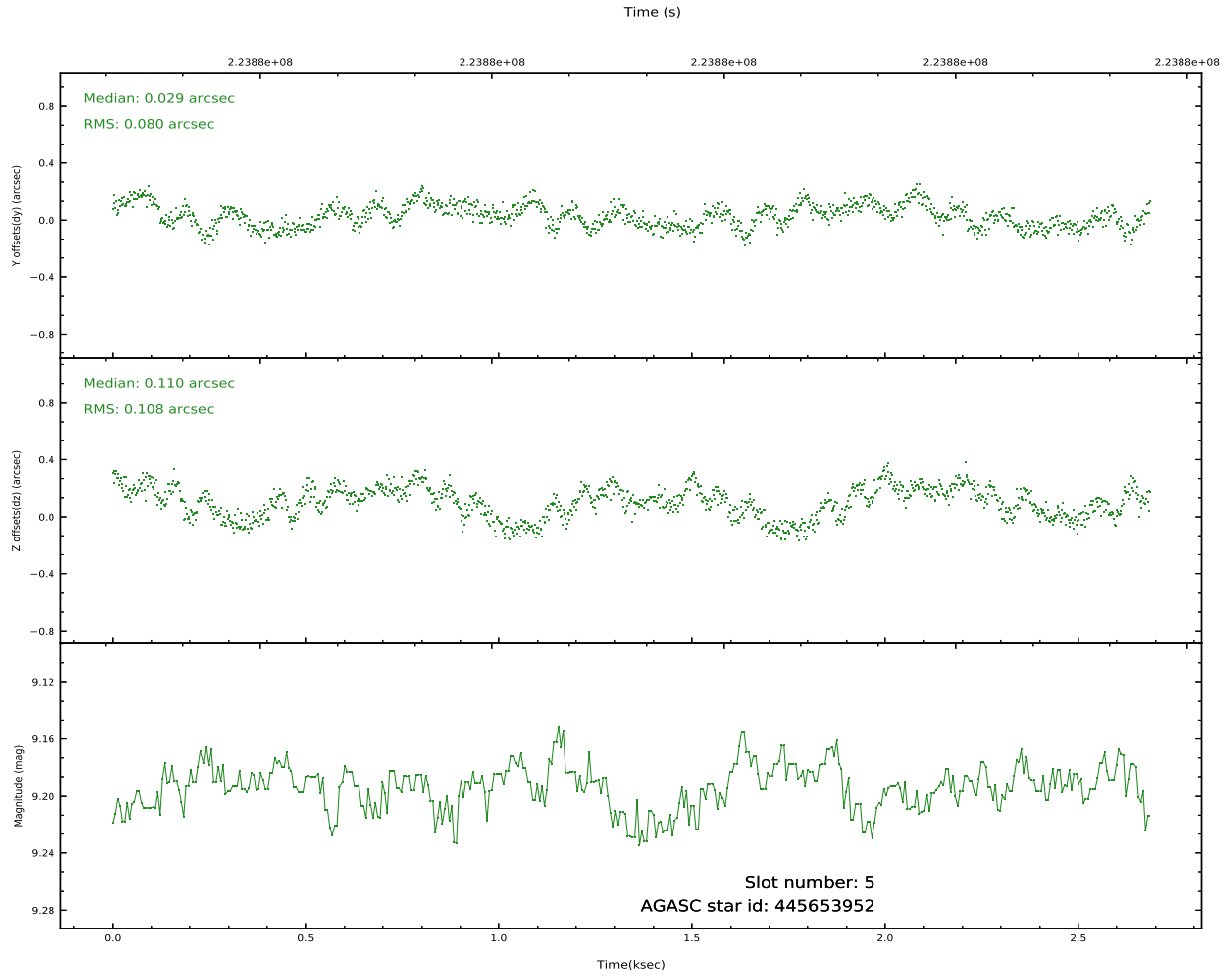
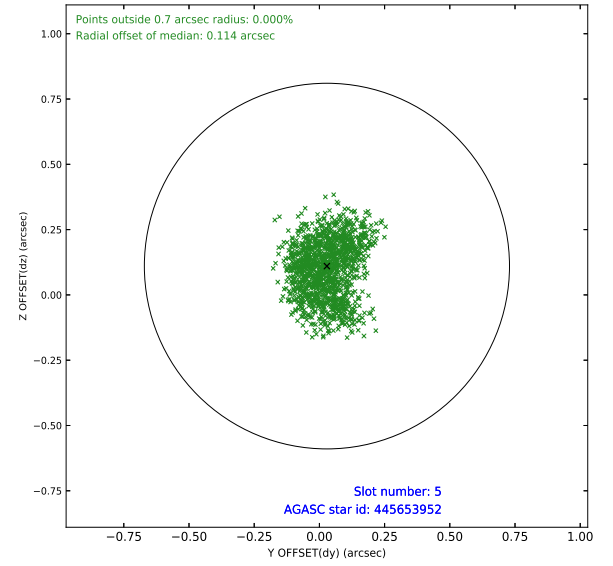
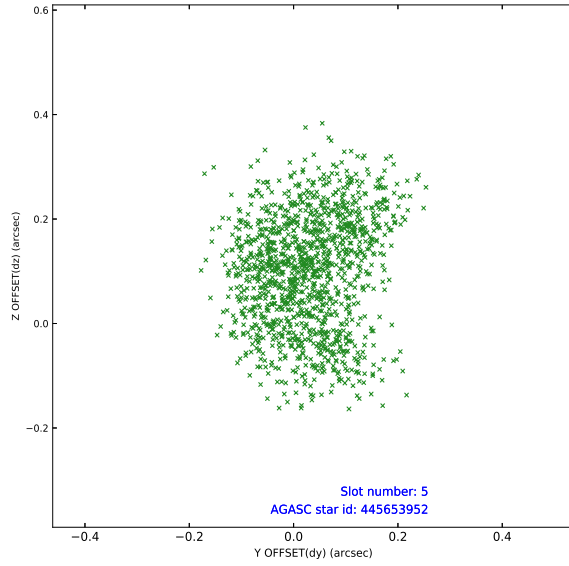
2.4.1 Slot 3



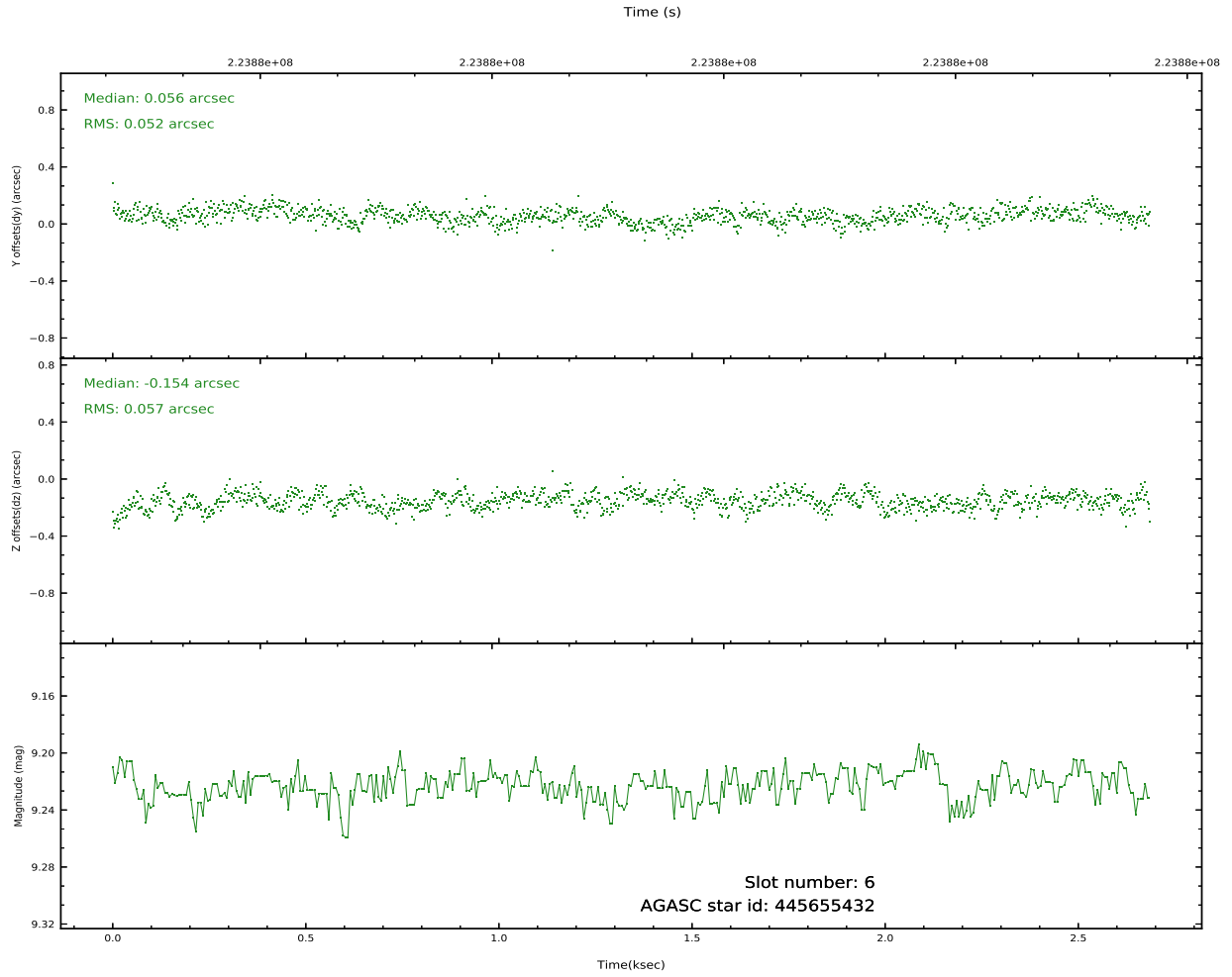
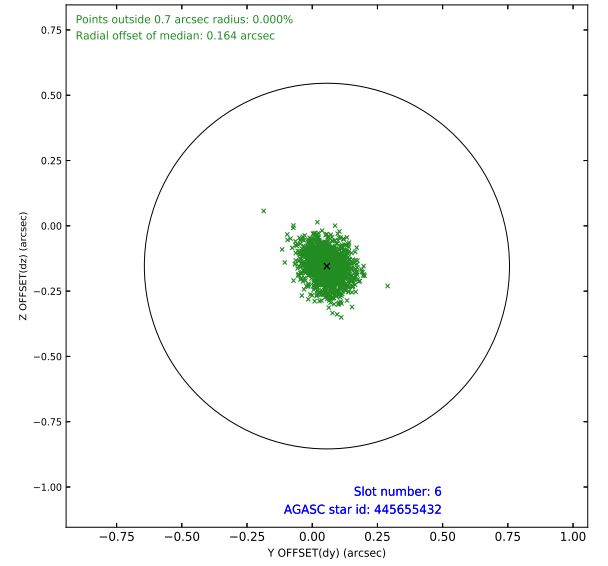
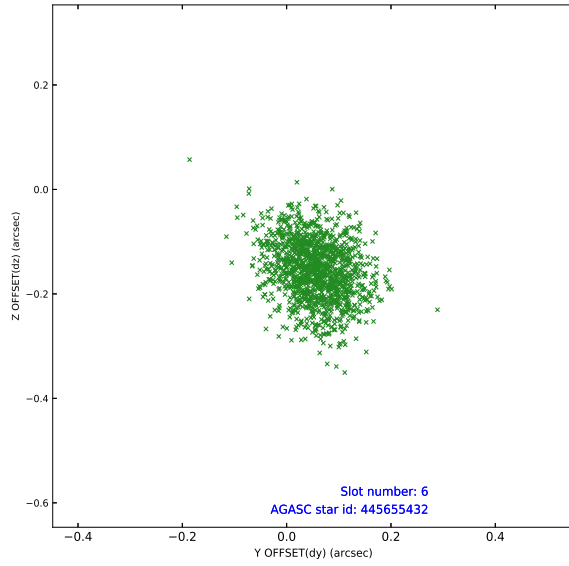
2.4.2 Slot 4



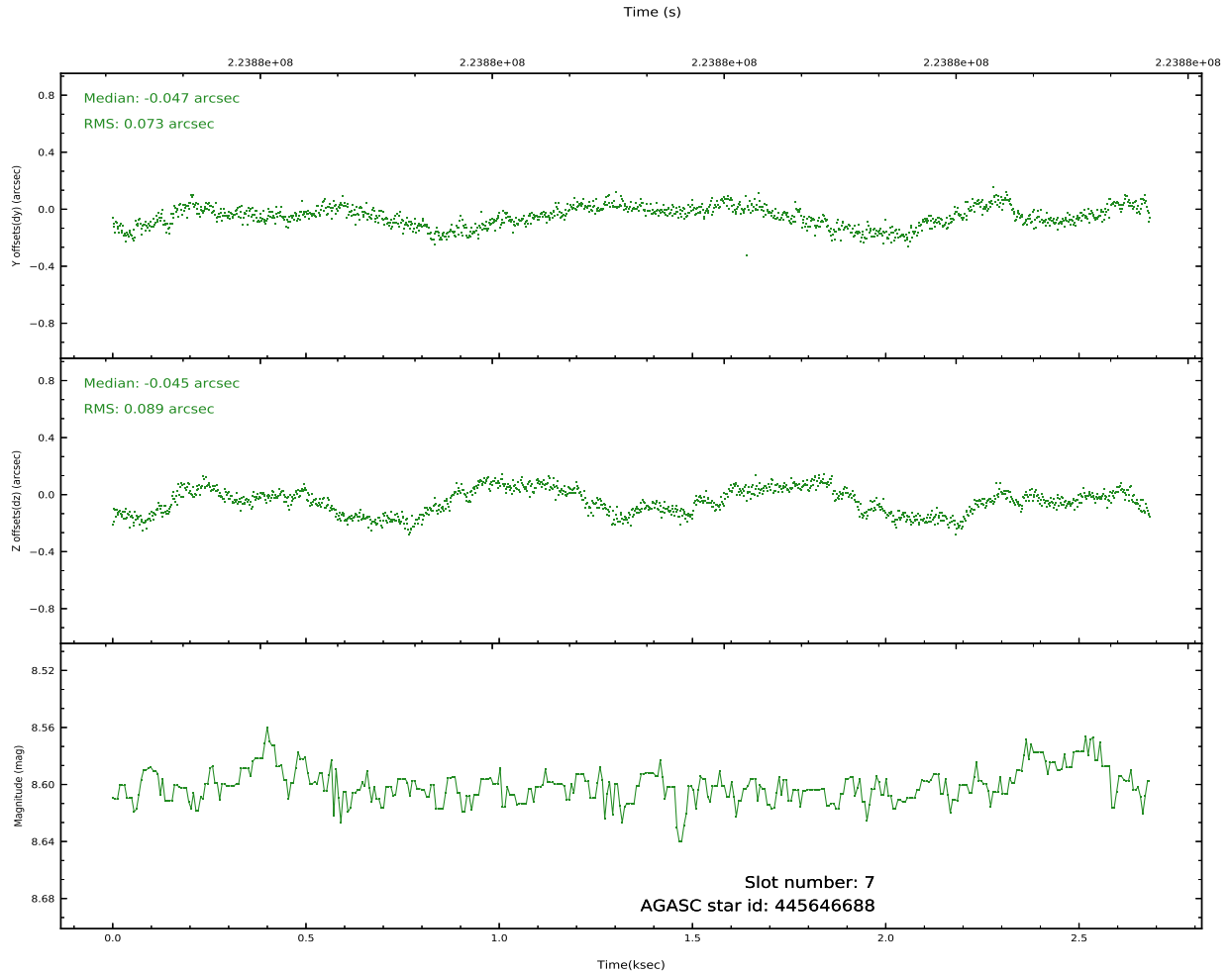
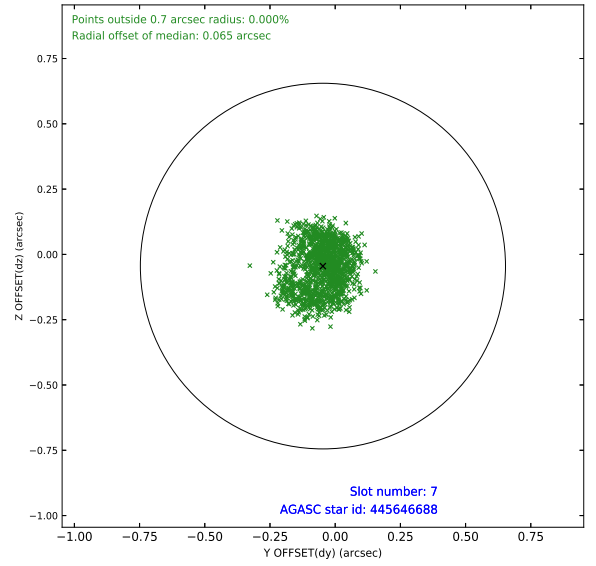
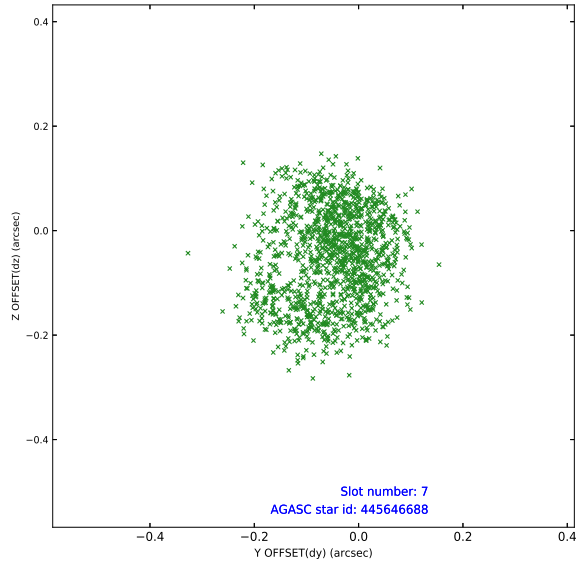
2.4.3 Slot 5



2.4.4 Slot 6

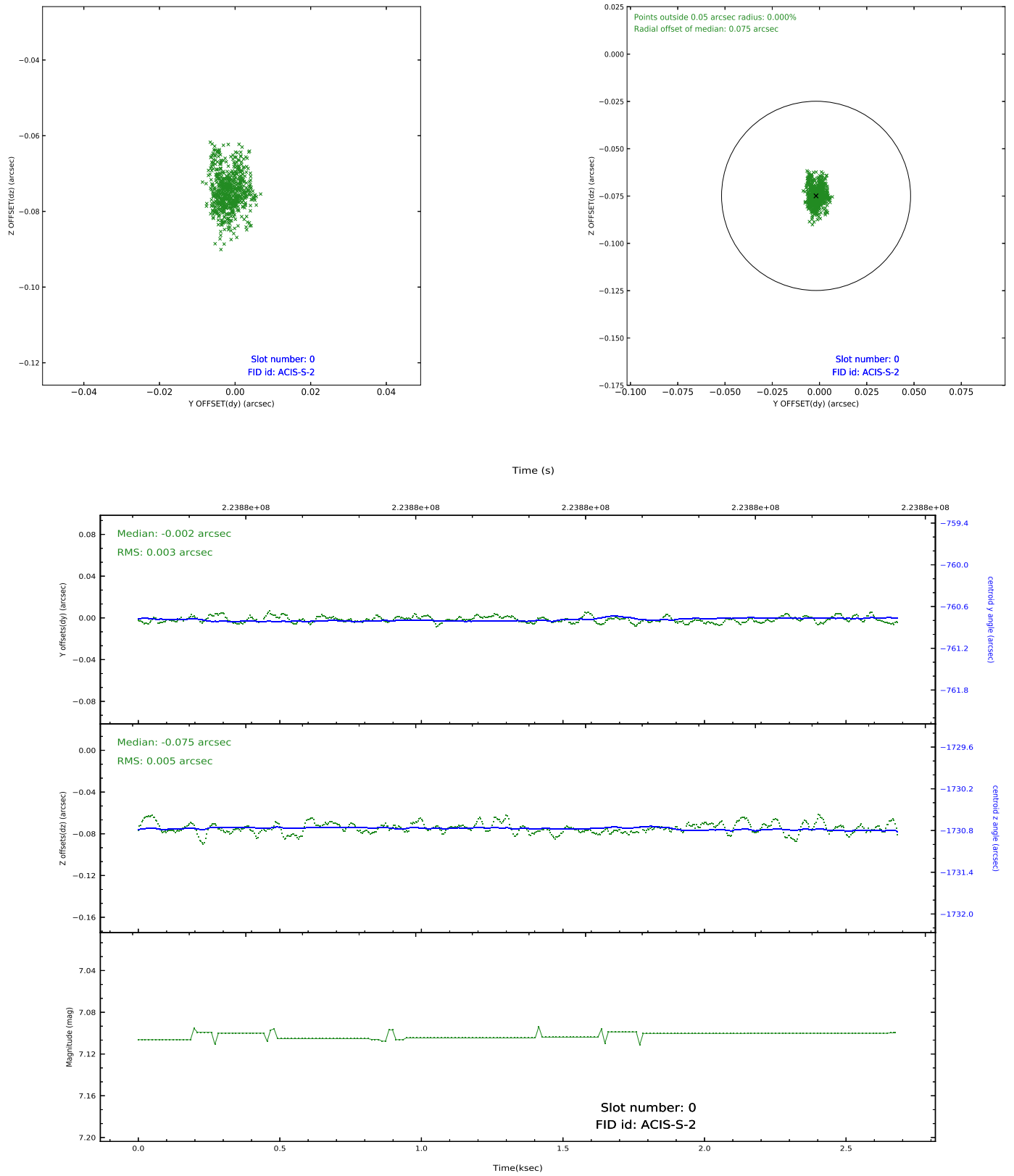


2.4.5 Slot 7

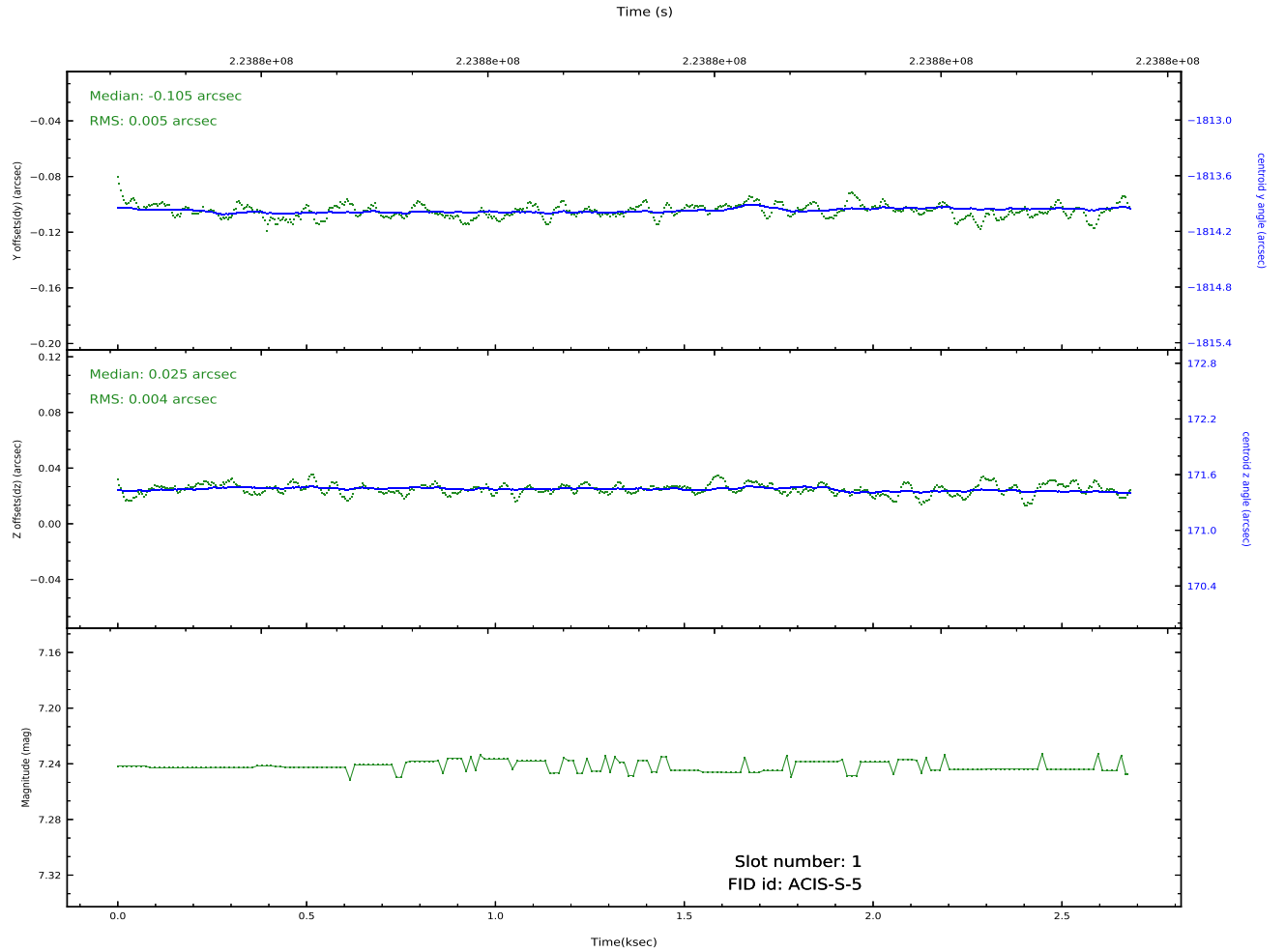
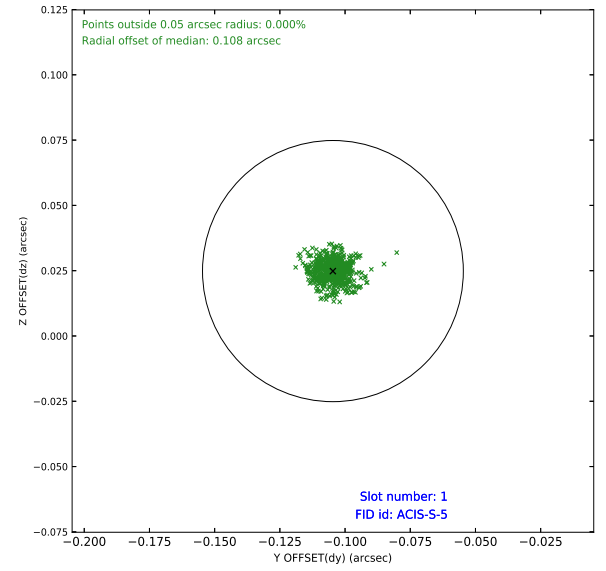
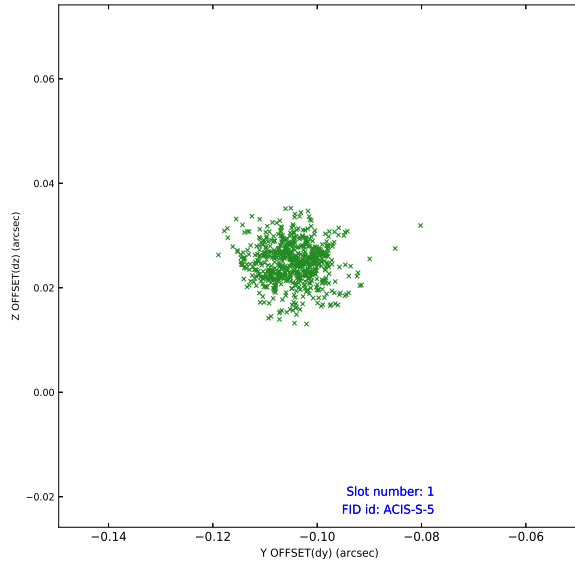


2.5 FID Slots

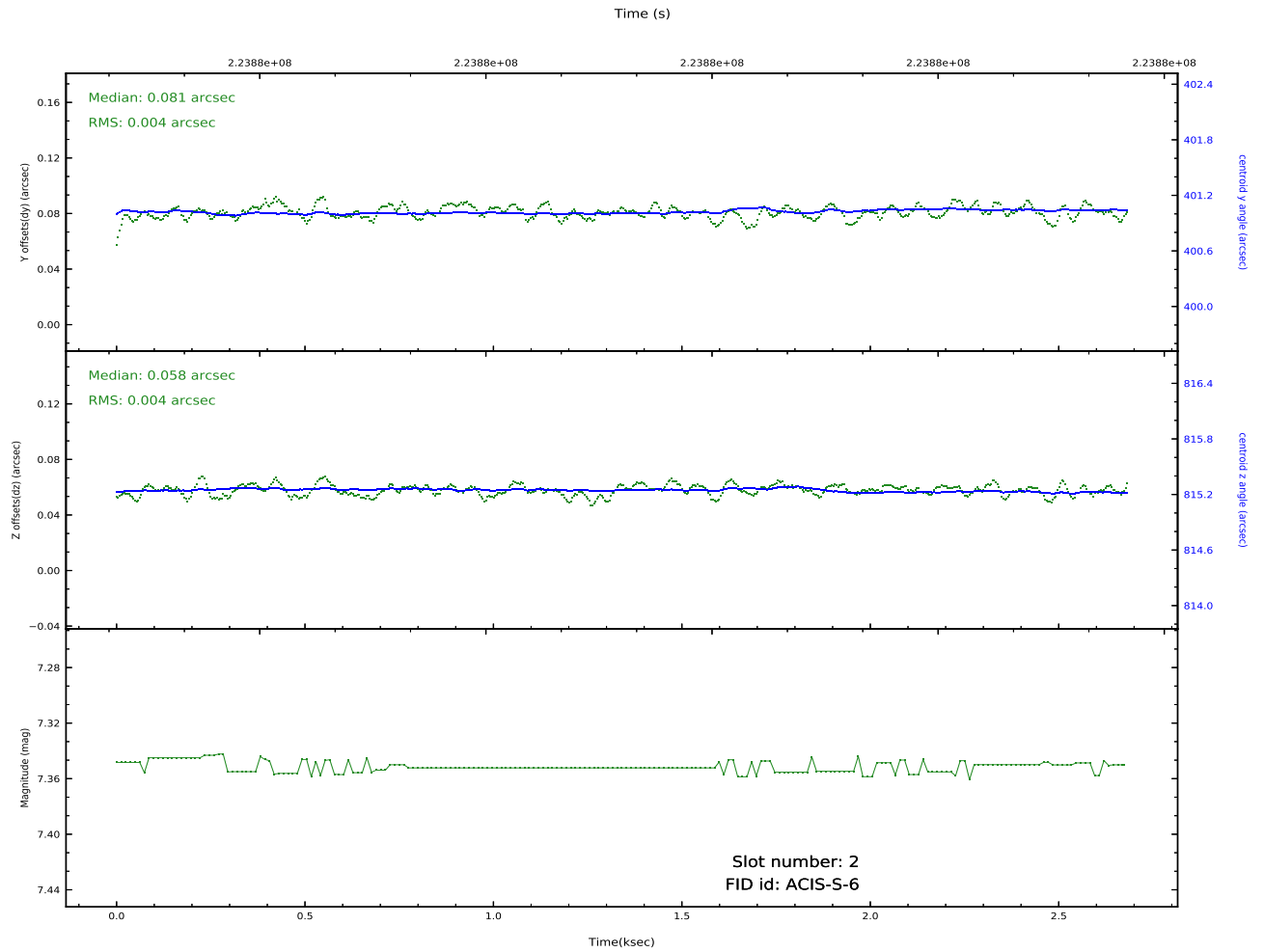
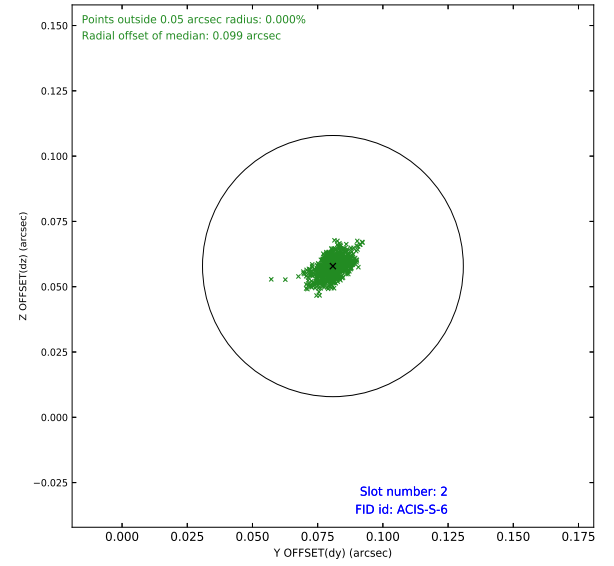
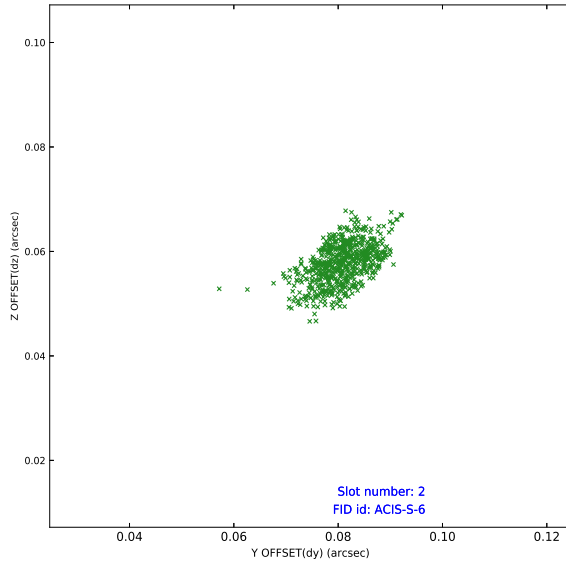
2.5.1 Slot 0



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)	2020.10.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.942399

A.2 Comments