

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20375 - L2 Version 2
Chandra X-Ray Center

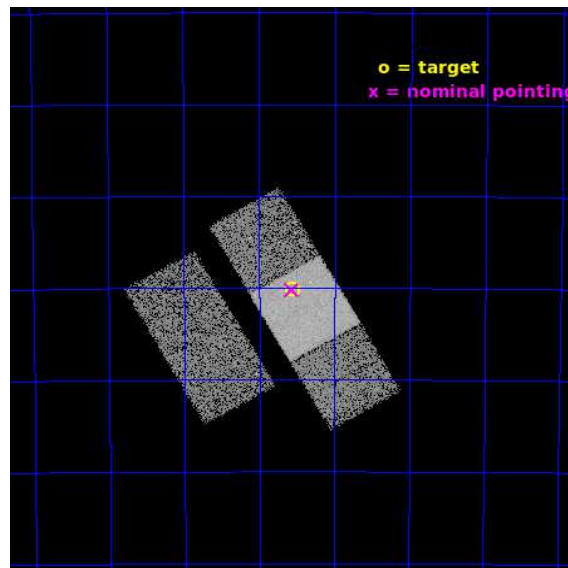
L2 Processing Date : Oct 26 2020

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1 Front

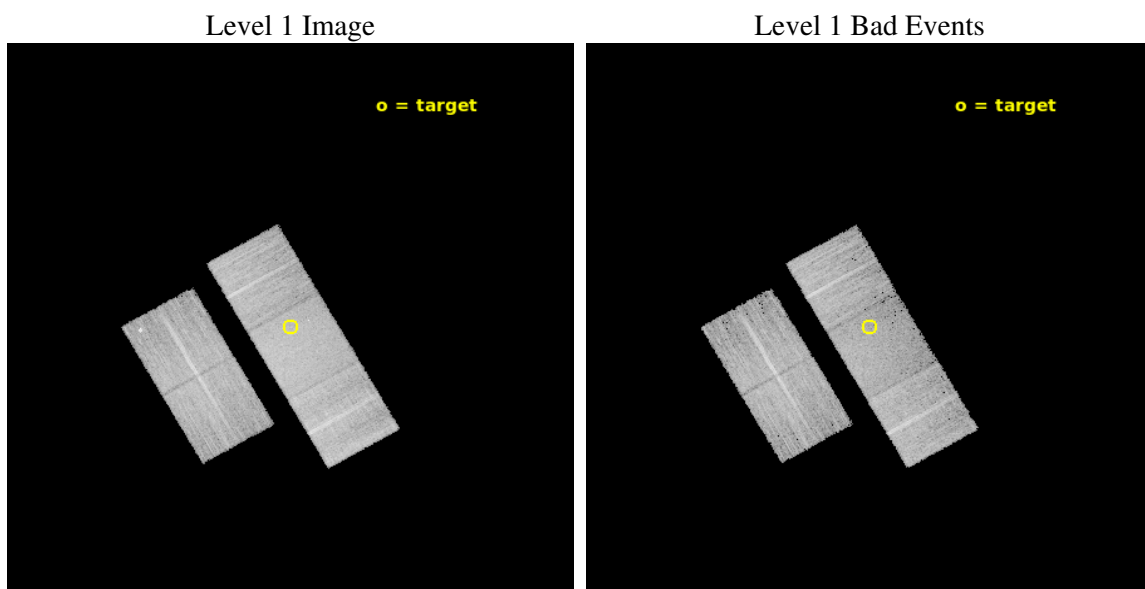
seq_num	703480	Sequence number
obs_id	20375	Observation id
title	HEAVILY REDDENED, LUMINOUS TYPE 1 QSOs: A TRANSITION POPULATION EMERGING FROM THE DUST	Proposal title
observer	Enrico Piconcelli	Principal investigator
object	VHSJ2100-5820	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	315.140417	Observer's specified target RA [deg]
dec_targ	-58.335389	Observer's specified target Dec [deg]
ra_nom	315.14162121707	Nominal RA [deg]
dec_nom	-58.336702743557	Nominal Dec [deg]
roll_nom	60.144686617771	Nominal Roll [deg]
revision	2	Processing version of data
ontime	9054.4030478001	Sum of GTIs [s]
livetime	8936.100606226	Livetime [s]
ontime2	9054.2388877869	Sum of GTIs [s]
ontime3	9054.3209677935	Sum of GTIs [s]
ontime6	9054.3620078564	Sum of GTIs [s]
ontime7	9054.4030478001	Sum of GTIs [s]
ontime8	9051.1388677359	Sum of GTIs [s]
l2events	63900	Number of level 2 events



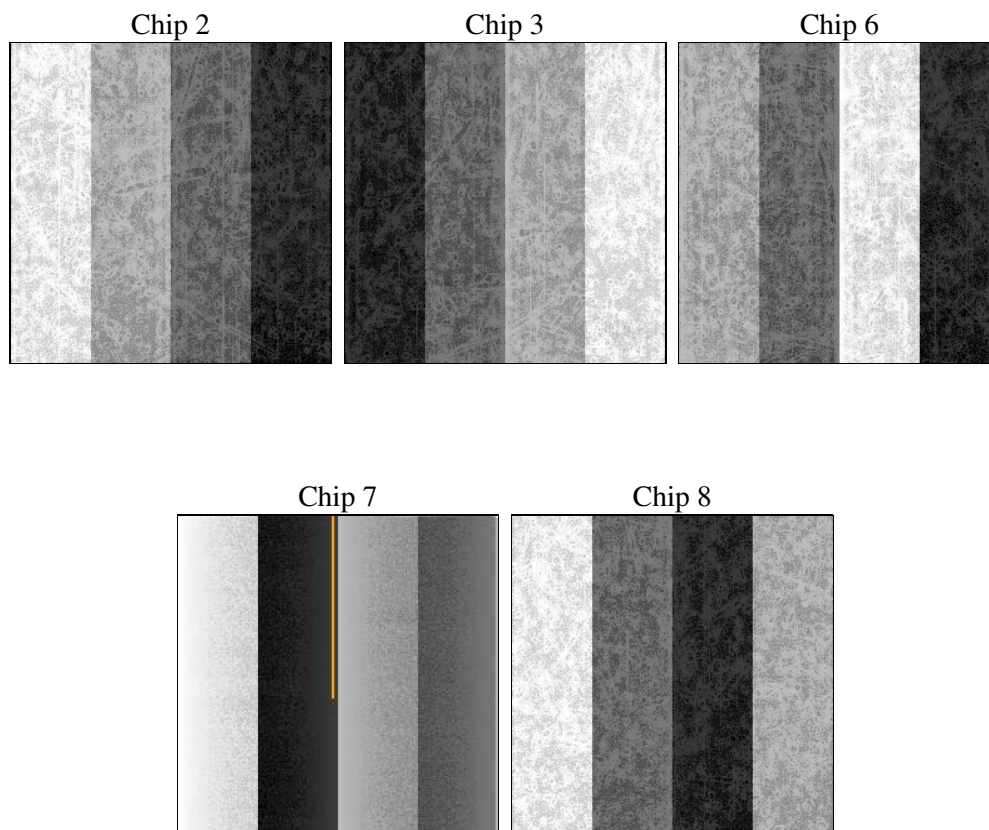
2 OBI

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	9054.4030478001	Sum of GTIs [s]
caldsver	4.9.3	 	ontime2	9054.2388877869	Sum of GTIs [s]
date	2020-10-26T08:58:16	Date and time of file creation	ontime3	9054.3209677935	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	9054.3620078564	Sum of GTIs [s]
			ontime7	9054.4030478001	Sum of GTIs [s]
			ontime8	9051.1388677359	Sum of GTIs [s]
			l1events	399097	Number of level 1 events

2.1.4 Events

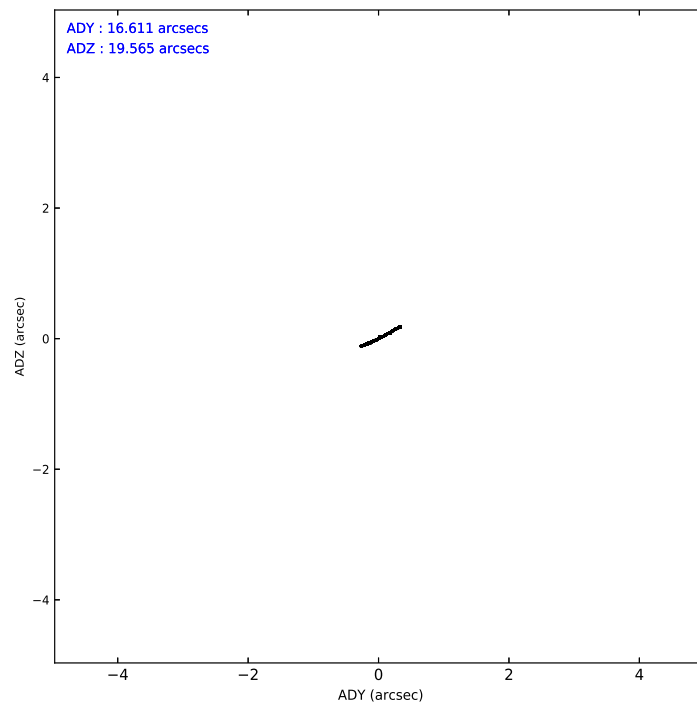
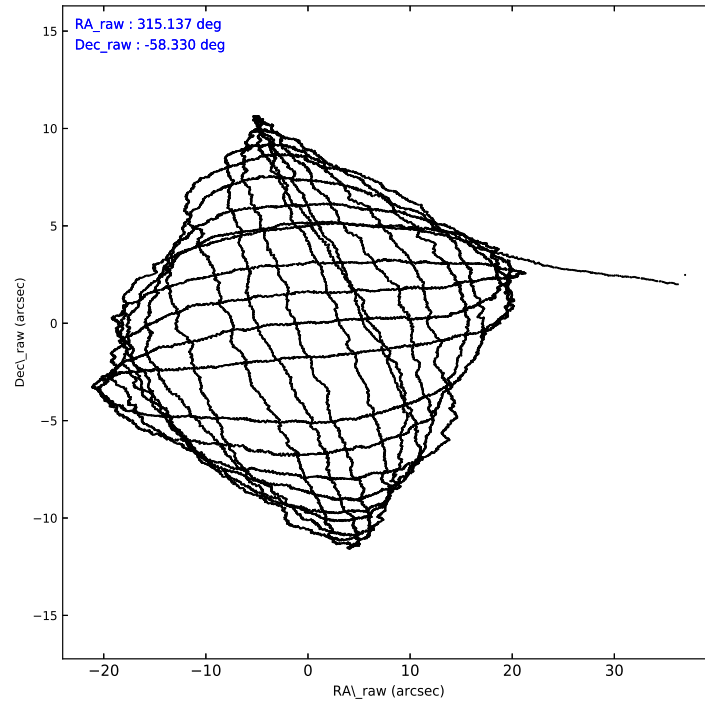
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	70592	70787	74217	90640	92861
rejected events	62593	63779	66243	52153	69813
rejected %	88%	90%	89%	57%	75%

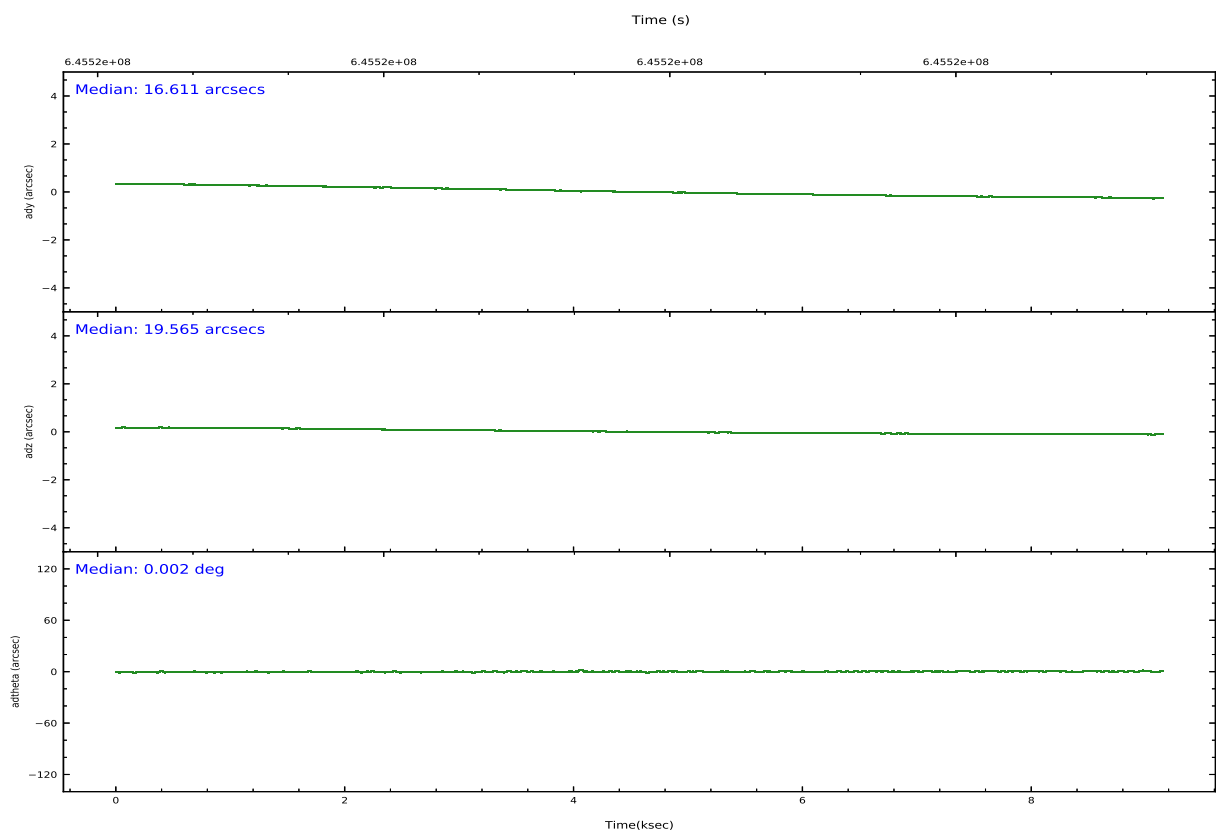
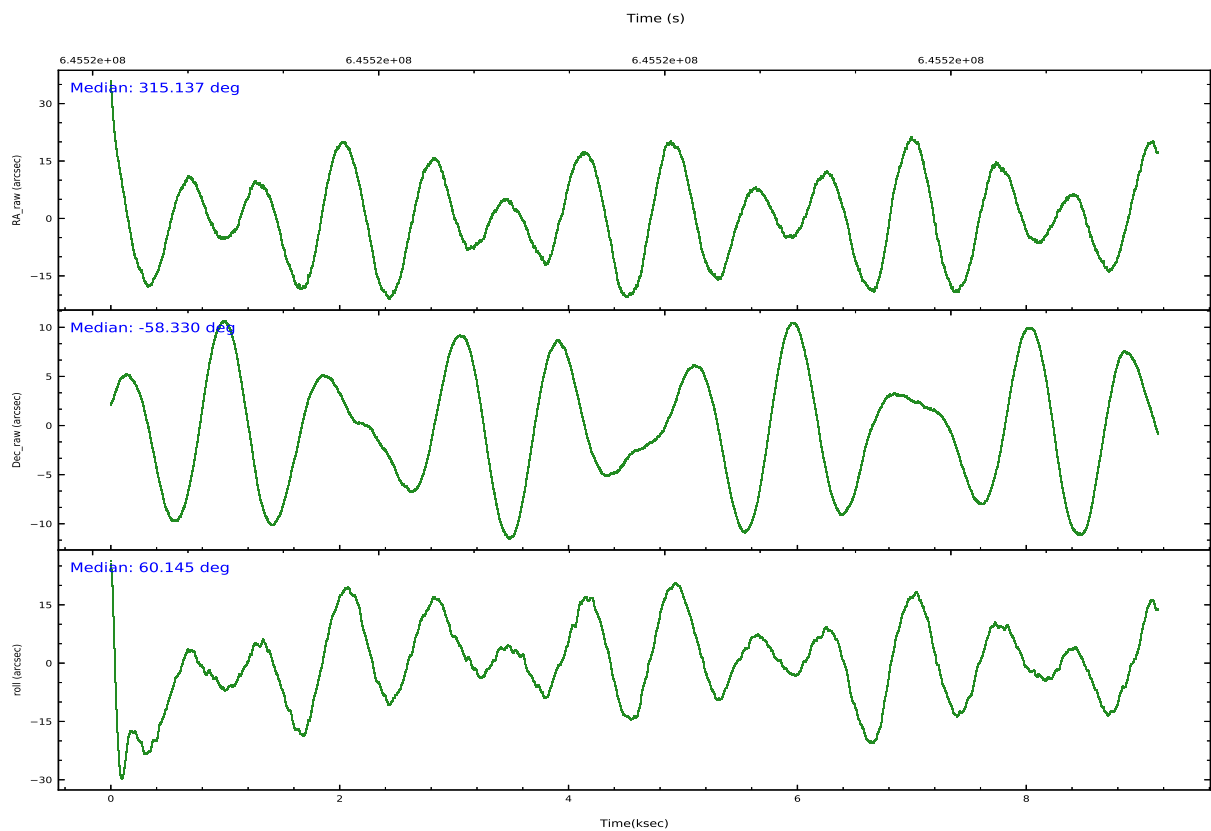
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	3344	2428	2593	3209	6341
	4%	3%	3%	3%	6%
grade 1 events	41	37	41	142	85
	0%	0%	0%	0%	0%
grade 2 events	1724	1493	1966	8132	5833
	2%	2%	2%	8%	6%
grade 3 events	720	744	758	3007	2403
	1%	1%	1%	3%	2%
grade 4 events	774	720	749	2991	2166
	1%	1%	1%	3%	2%
grade 5 events	2687	3231	3301	8923	4965
	3%	4%	4%	9%	5%
grade 6 events	1438	1624	1914	21158	6308
	2%	2%	2%	23%	6%
grade 7 events	59864	60510	62895	43078	64760
	84%	85%	84%	47%	69%

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	315.137663	315.14162121707	CCD I2 on	O1	Y
[deg] Pointing Dec	-58.357227	-58.336702743557	CCD I3 on	O2	Y
[deg] Pointing Roll	59.997658	60.144686617771	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	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	O3	Y
[s] Observation start time (MET)	645517811.184000	645516599.74941	CCD S5 on	N	N
Observation start date	2018-06-16T06:29:02	2018-06-16T06:09:59	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	645526811.184000	645528220.1751	On-chip summing requested	N	N
Observation end date	2018-06-16T08:59:02	2018-06-16T09:23:40	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



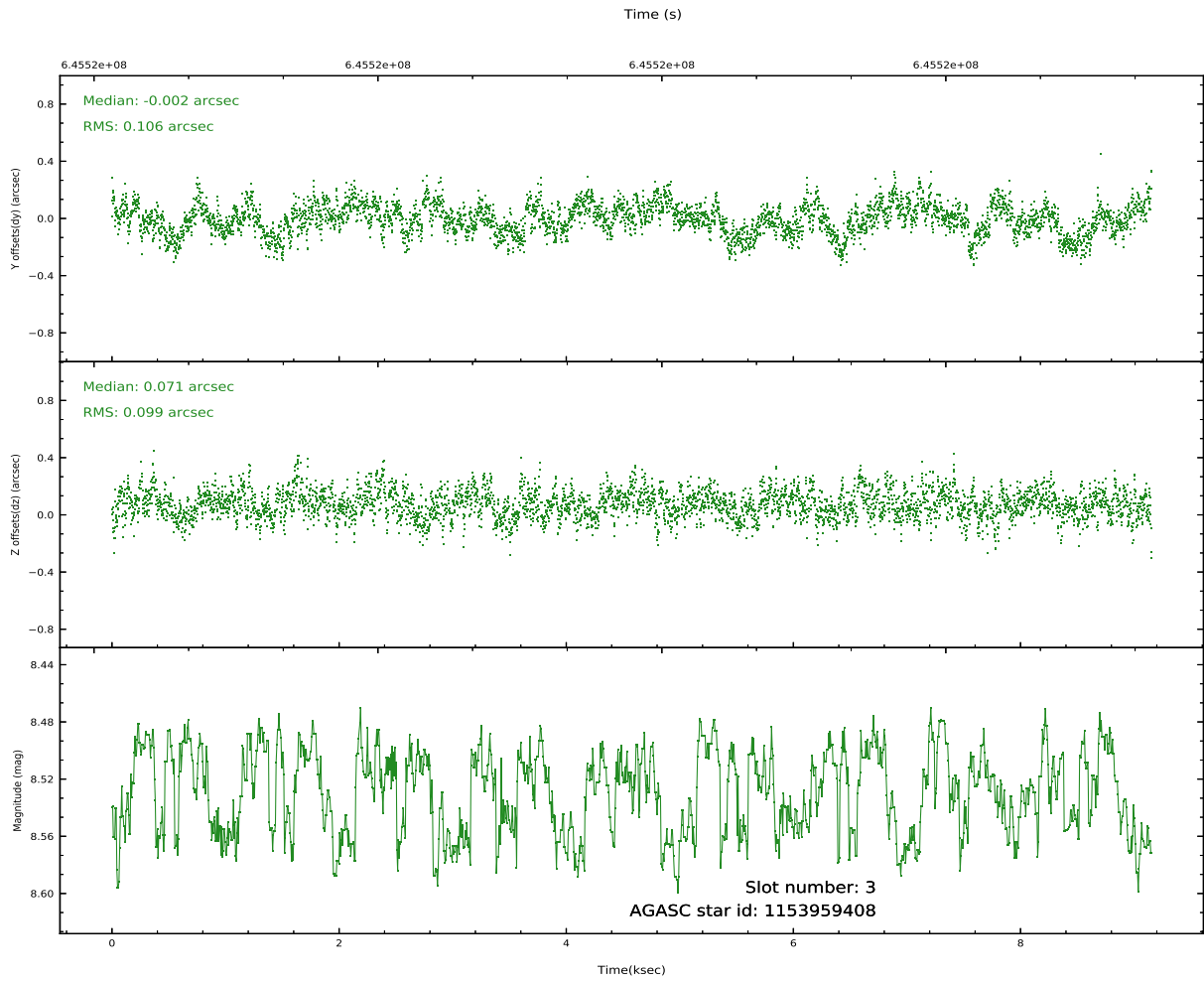
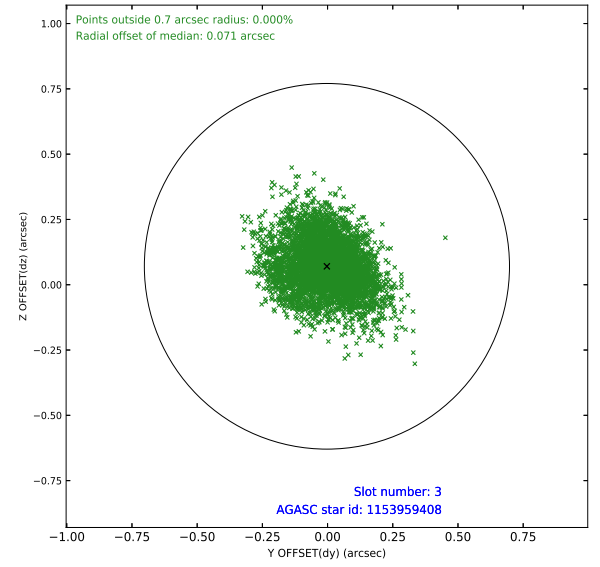
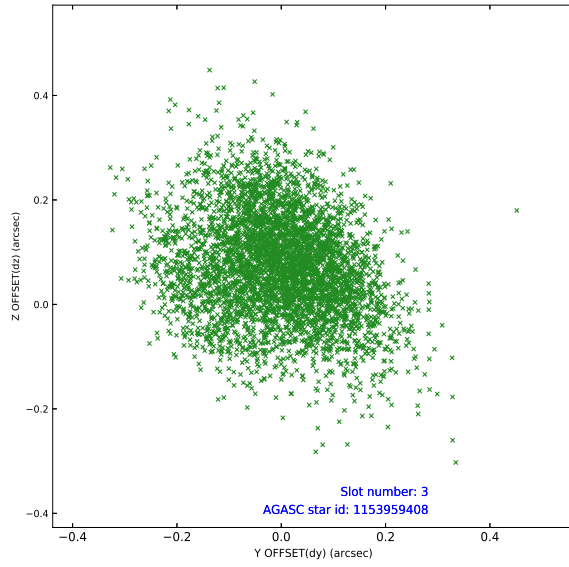


Slot Statistics

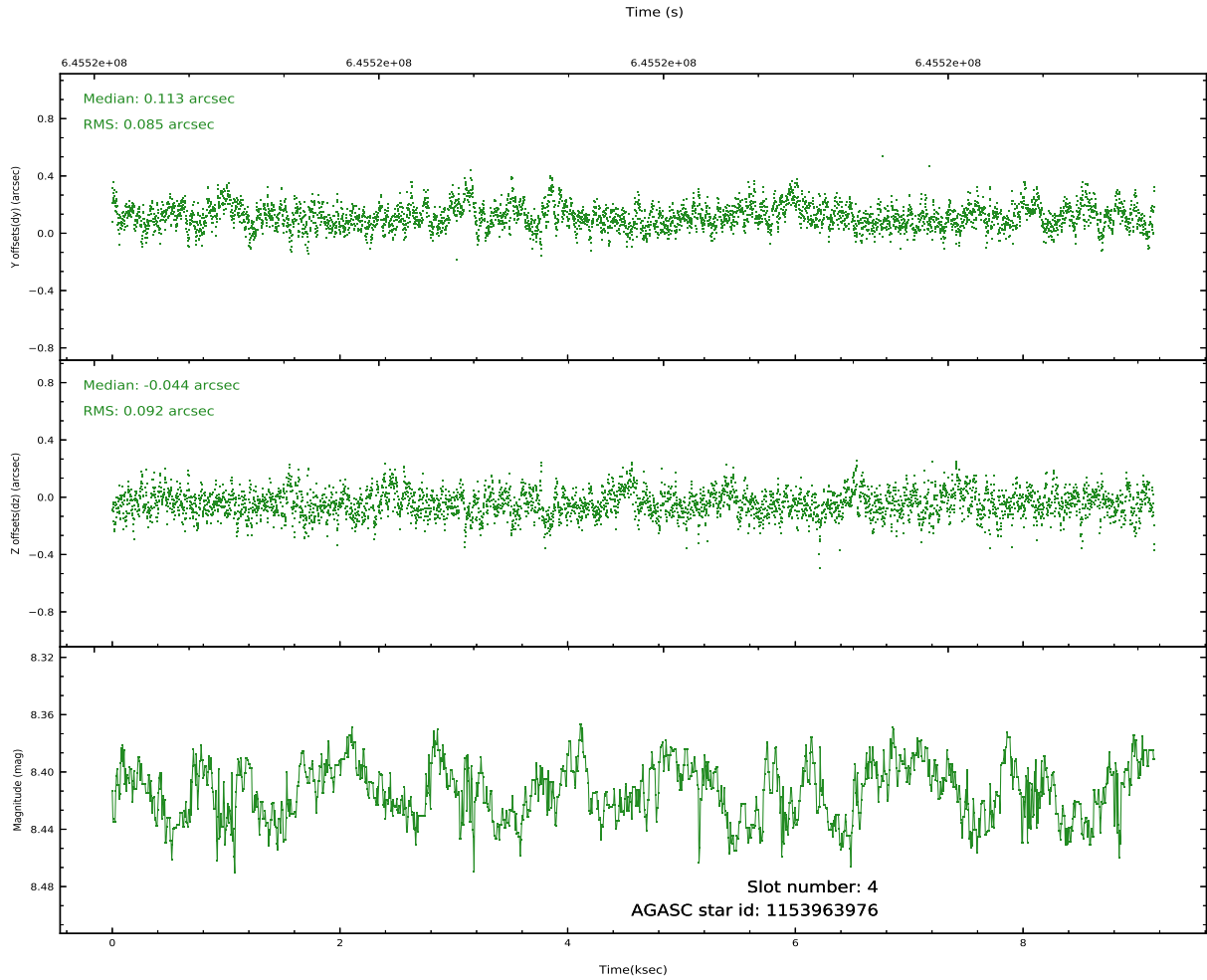
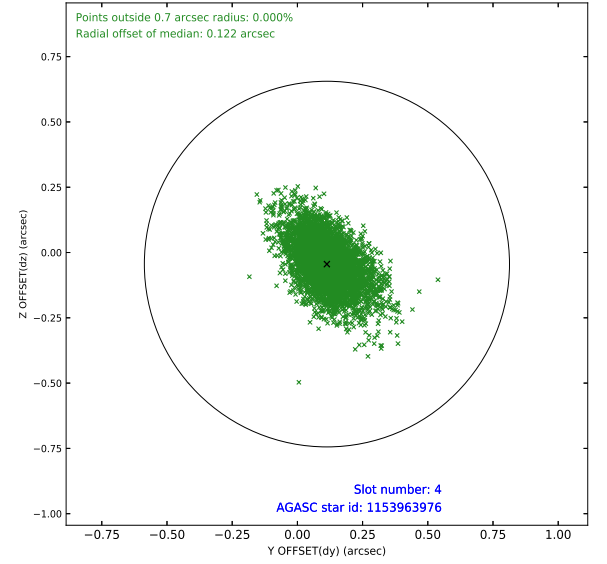
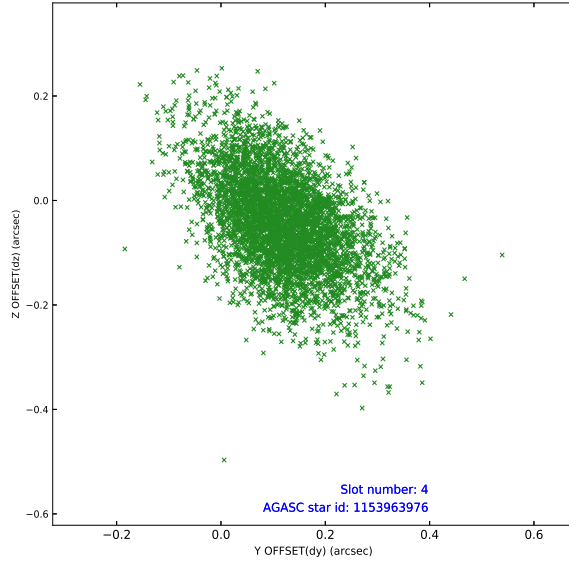
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.07	2233	1.000	0.099	-0.073	0.007	0.012	0.000000	0.000000	-769.74	-1741
1	FID		ACIS-S-4	7.17	2233	1.000	0.131	-0.028	0.006	0.010	0.000000	0.000000	2143.50	166
2	FID		ACIS-S-5	7.15	2233	1.000	-0.261	0.110	0.007	0.013	0.000000	0.000000	-1821.97	161
3	GUIDE	used	1153959408	8.53	4462	1.000	-0.002	0.071	0.154	0.249	315.302789	-58.238579	525.98	-57
4	GUIDE	used	1153963976	8.41	4462	1.000	0.113	-0.044	0.128	0.227	314.549768	-58.505165	-1019.75	688
5	GUIDE	used	1153965336	8.13	4466	1.000	0.153	0.191	0.150	0.241	315.243619	-58.733759	-1075.15	-849
6	GUIDE	used	1153964424	7.04	4466	1.000	-0.065	-0.312	0.117	0.204	314.014508	-58.358524	-1080.46	1825
7	GUIDE	used	1153960800	9.37	4458	1.000	-0.201	0.092	0.183	0.316	316.062818	-58.604191	87.15	-1952

2.4 Star Slots

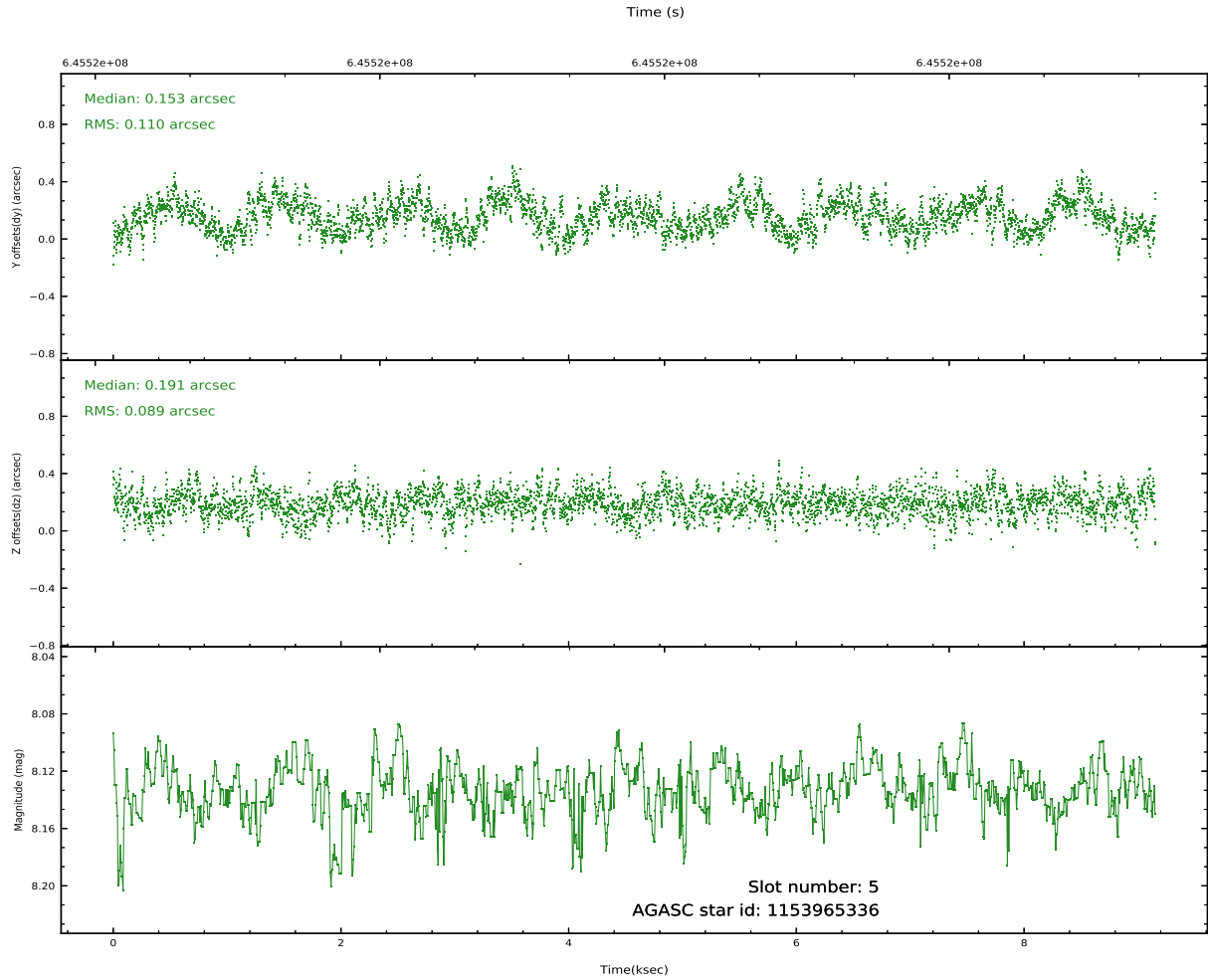
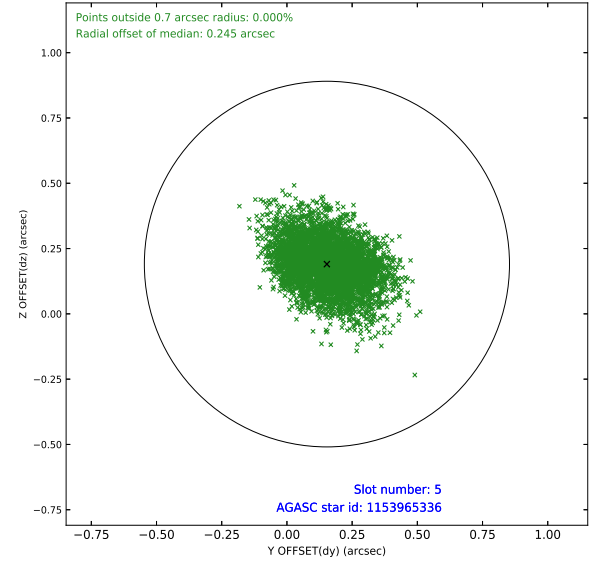
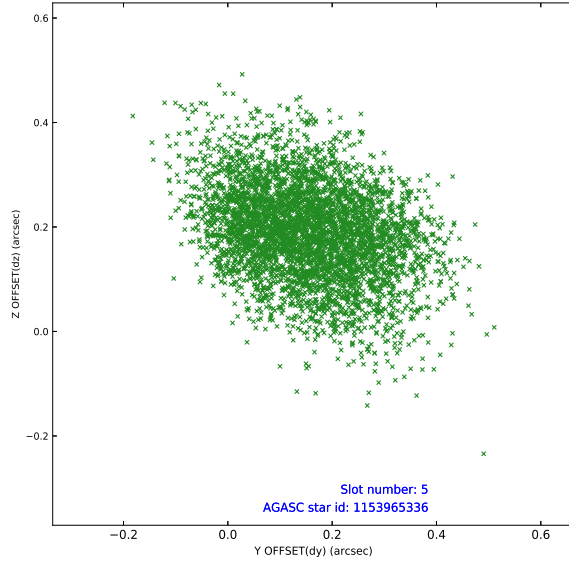
2.4.1 Slot 3



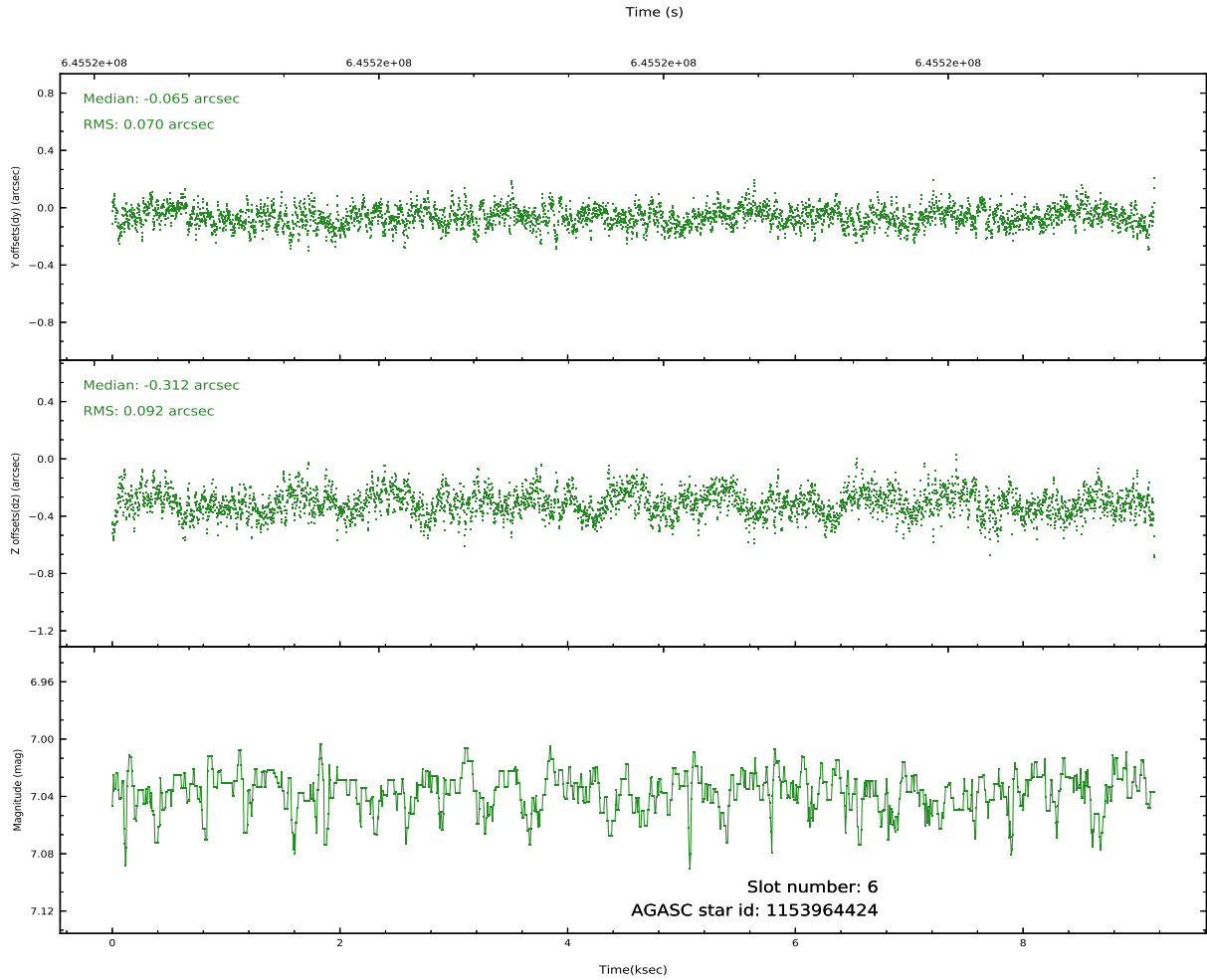
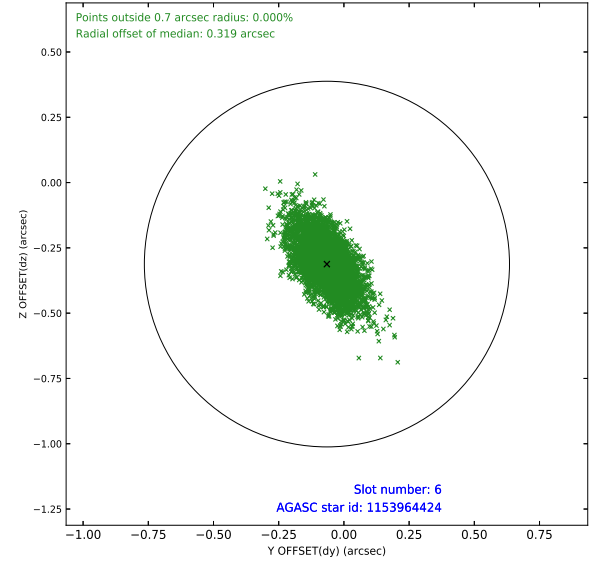
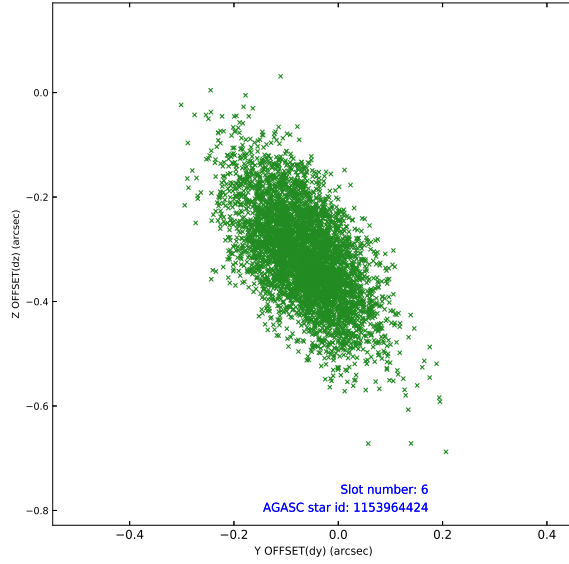
2.4.2 Slot 4



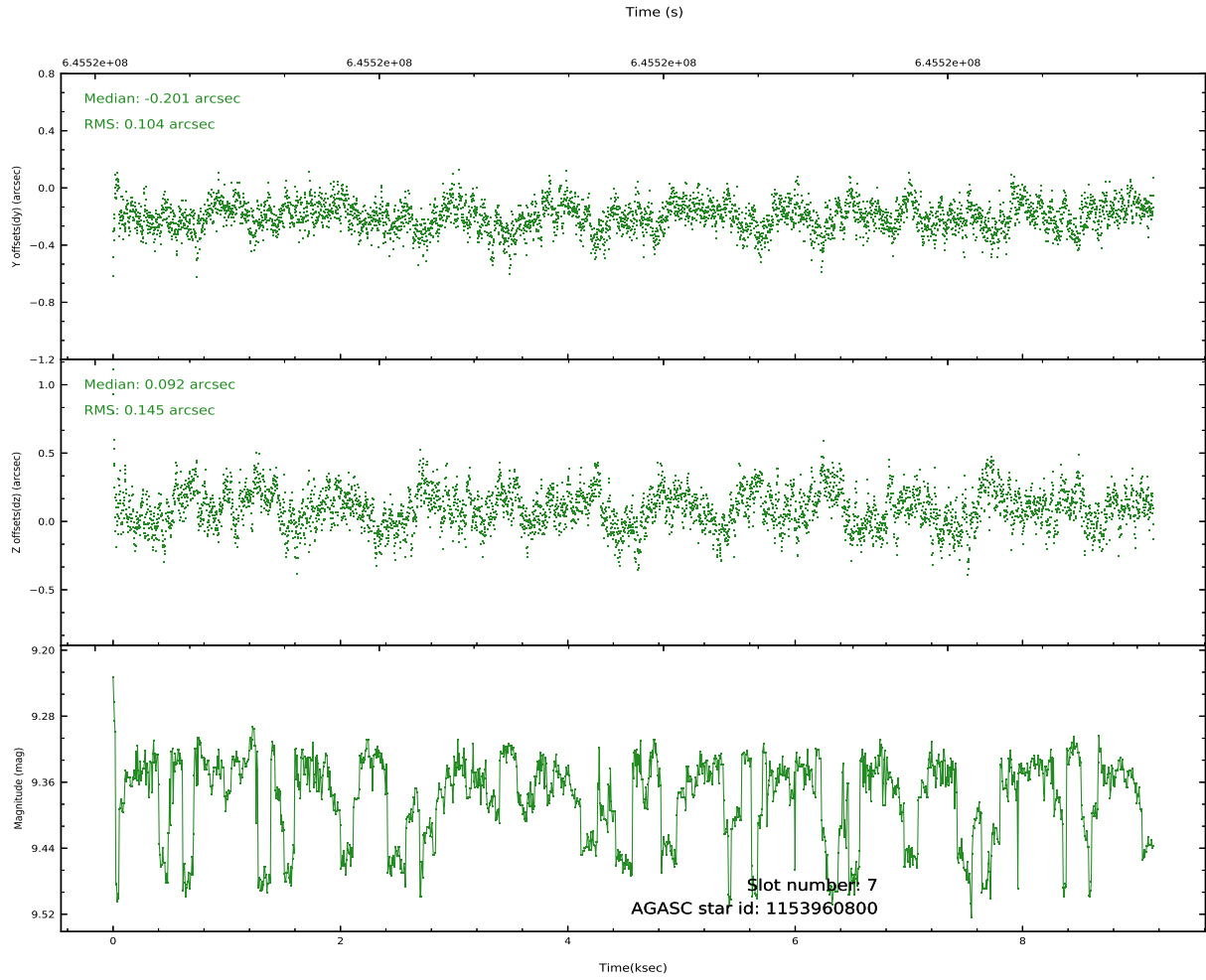
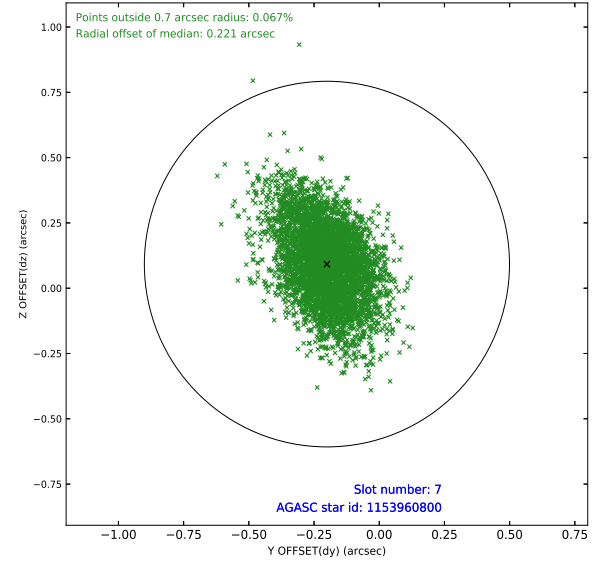
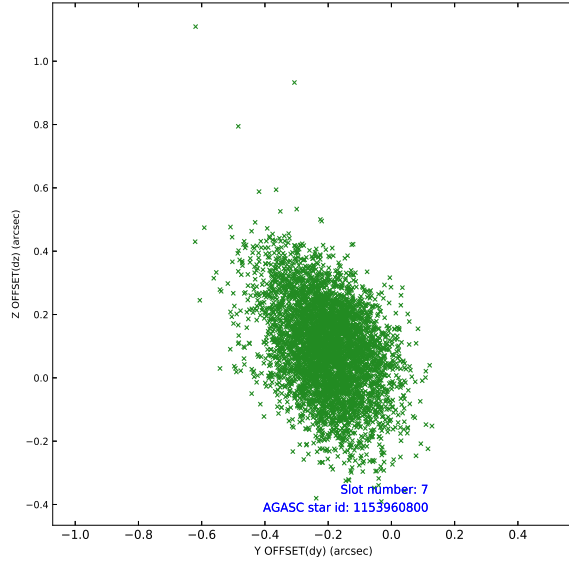
2.4.3 Slot 5



2.4.4 Slot 6

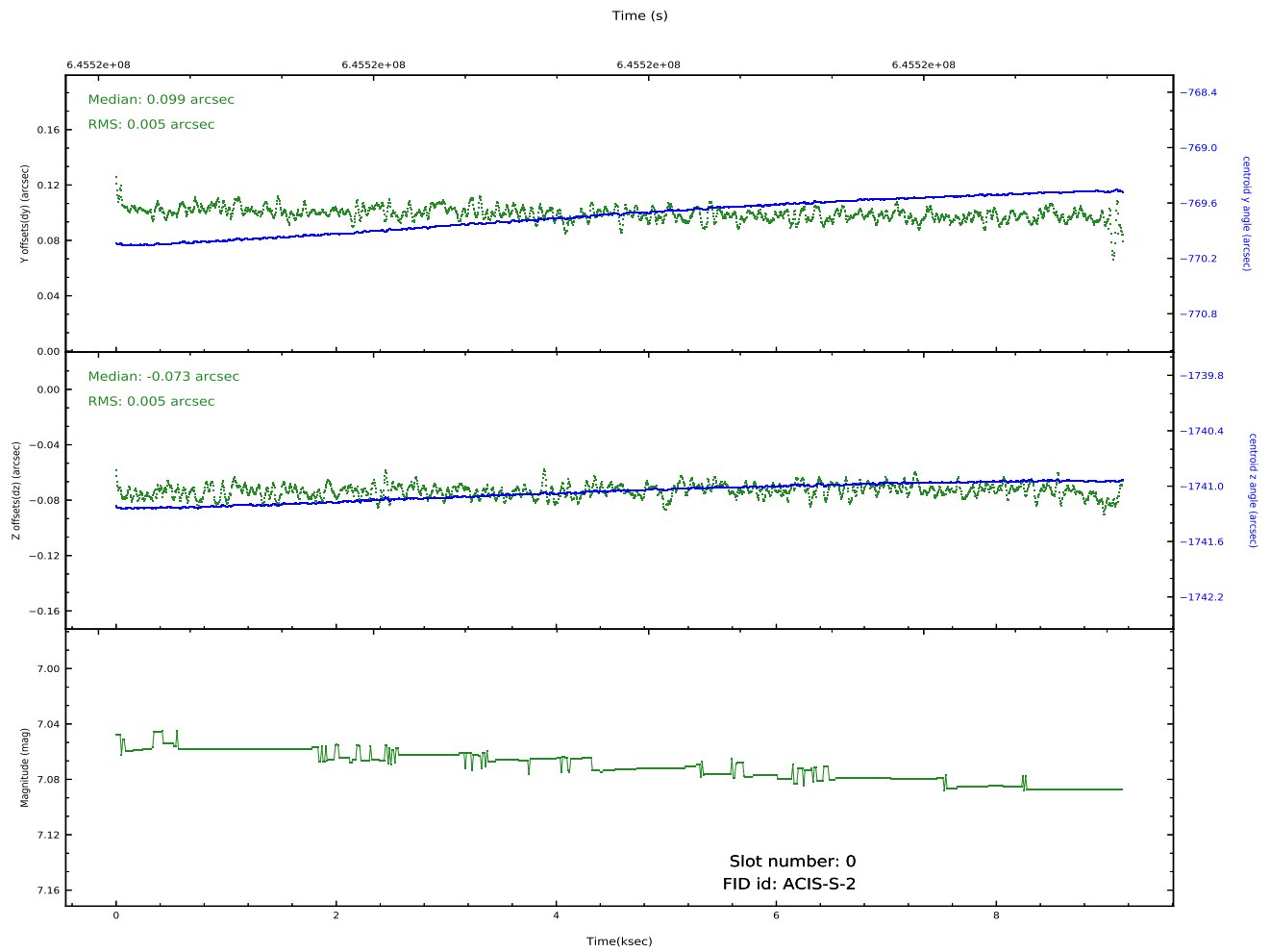
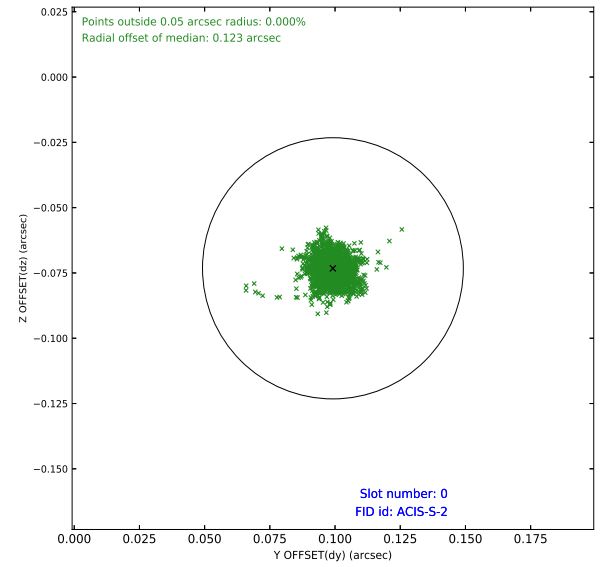
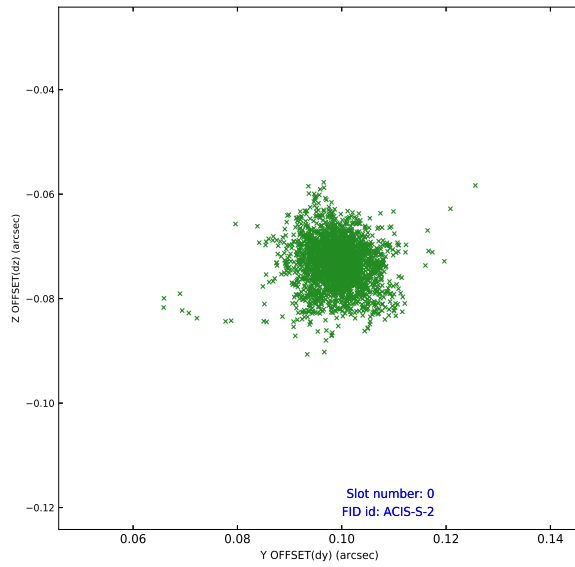


2.4.5 Slot 7

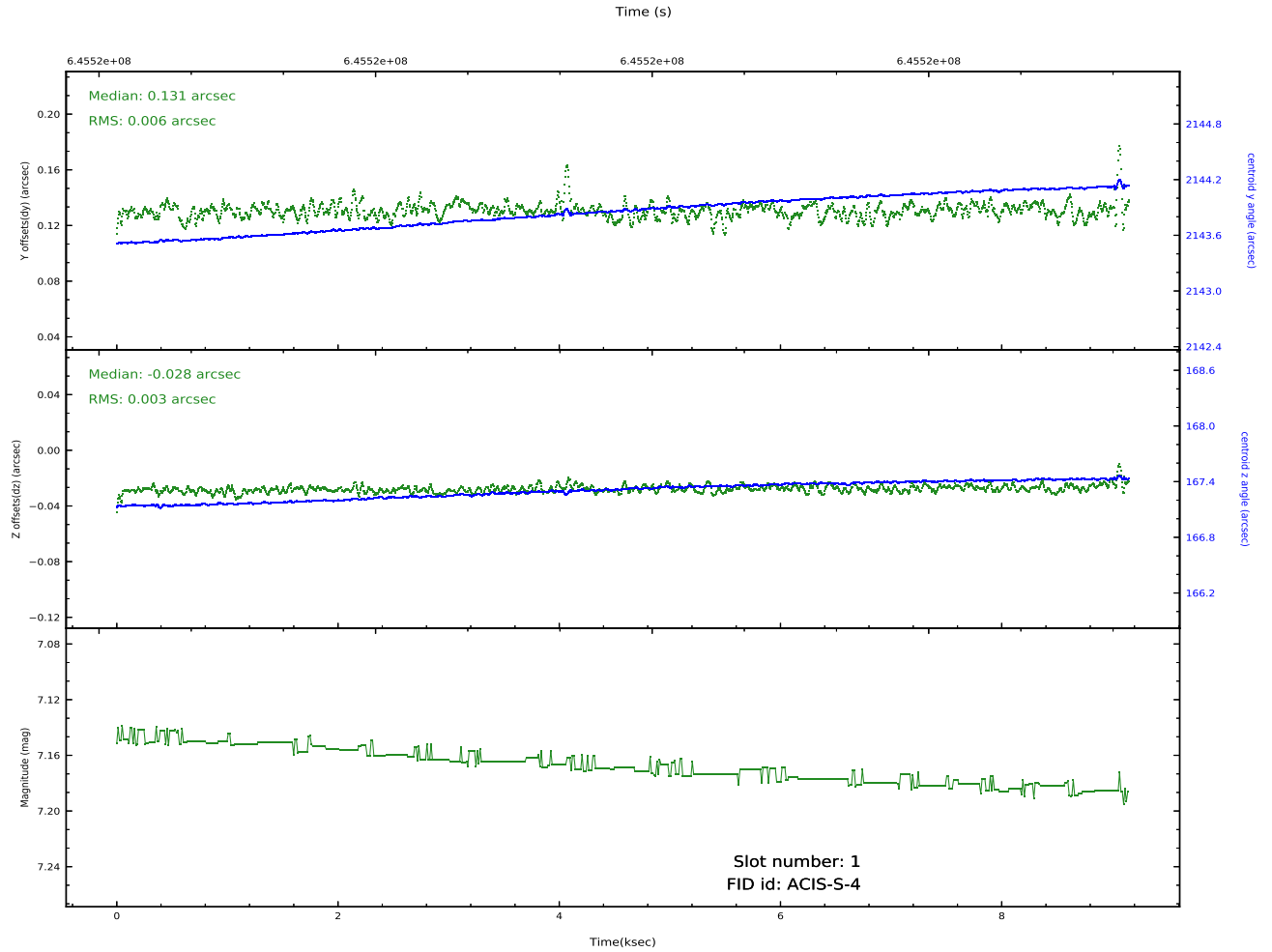
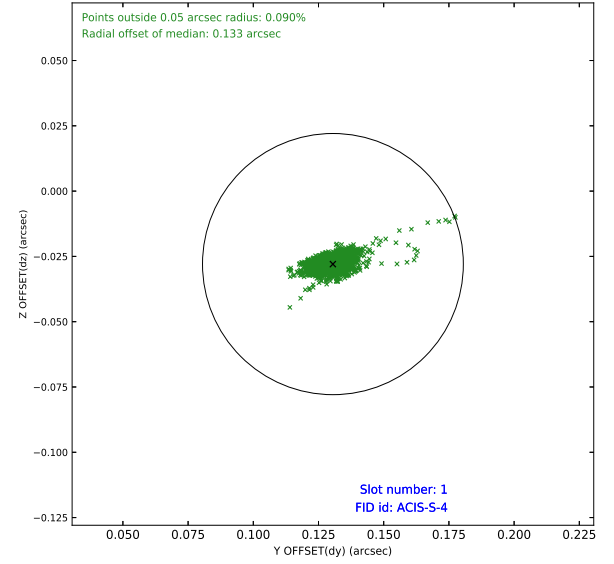
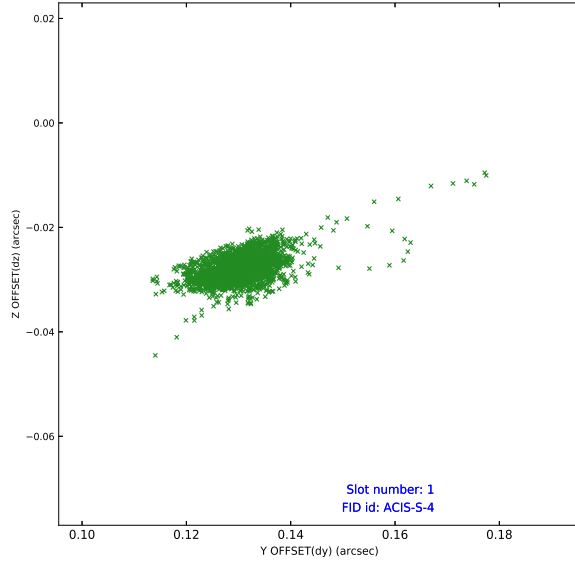


2.5 FID Slots

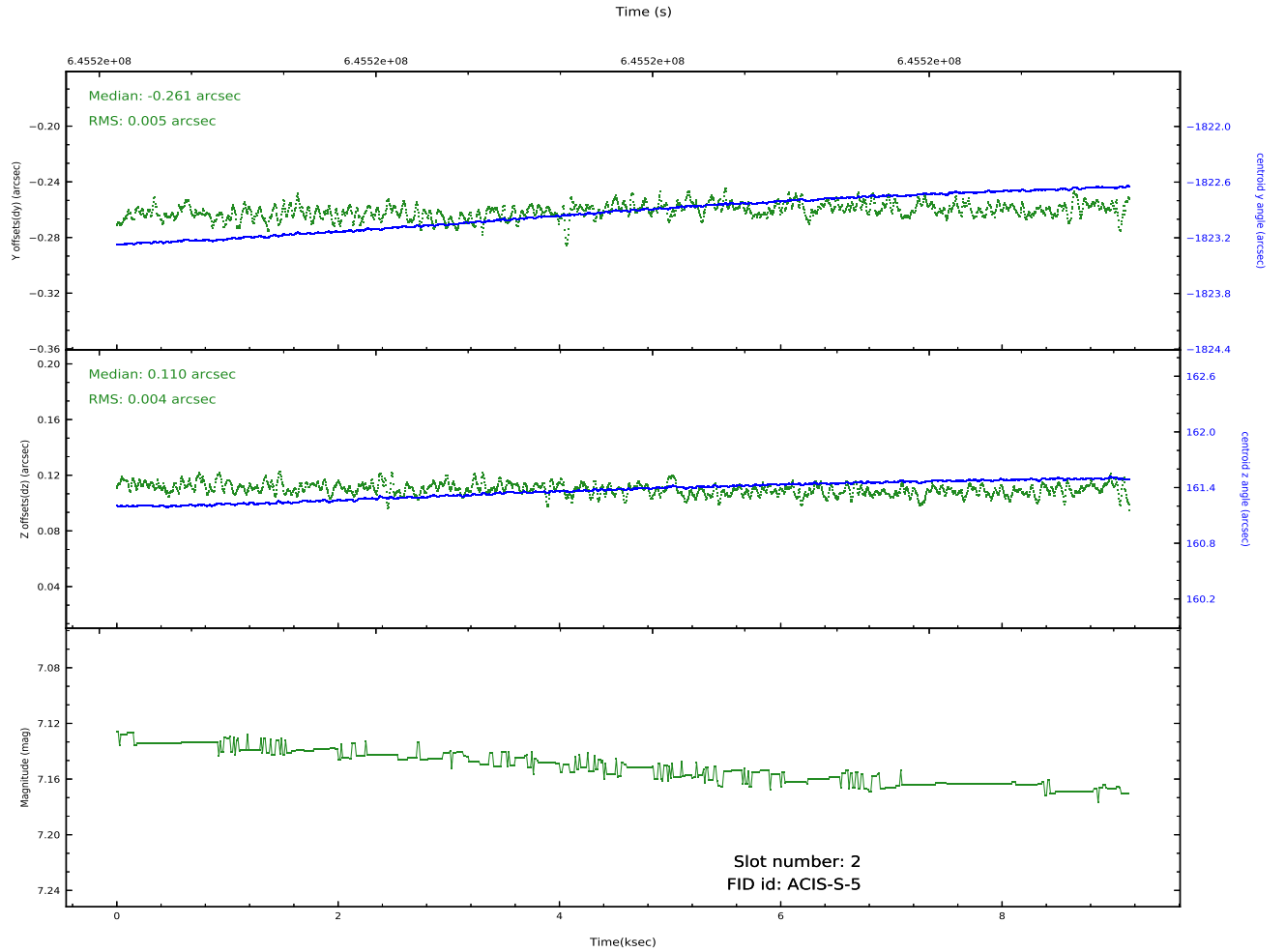
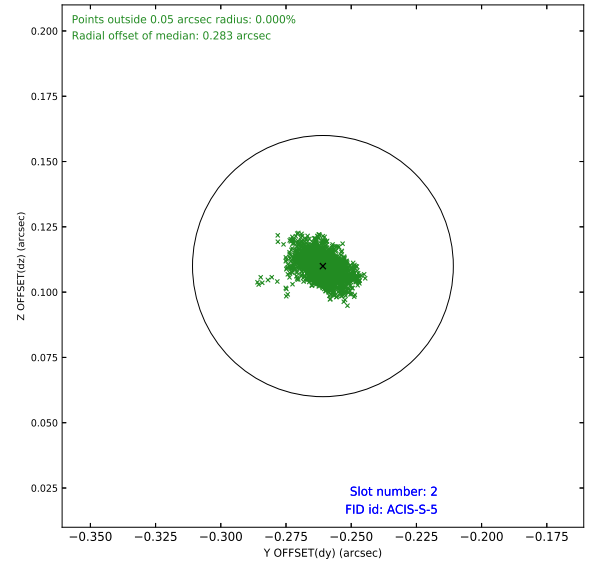
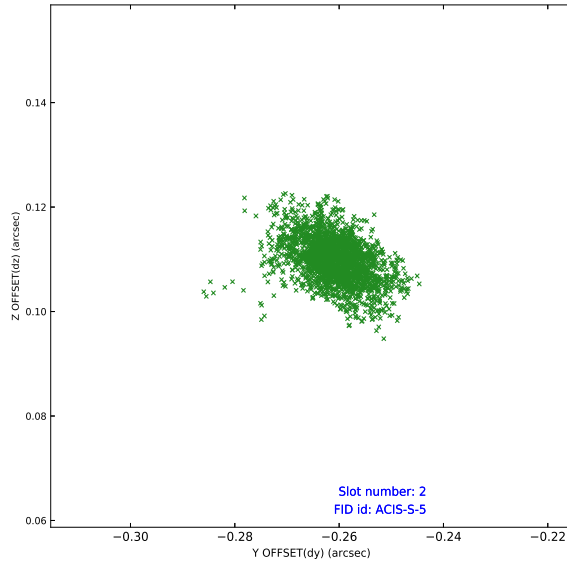
2.5.1 Slot 0



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	9.0544030504227

A.2 Comments