

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 19296 - L2 Version 3
Chandra X-Ray Center

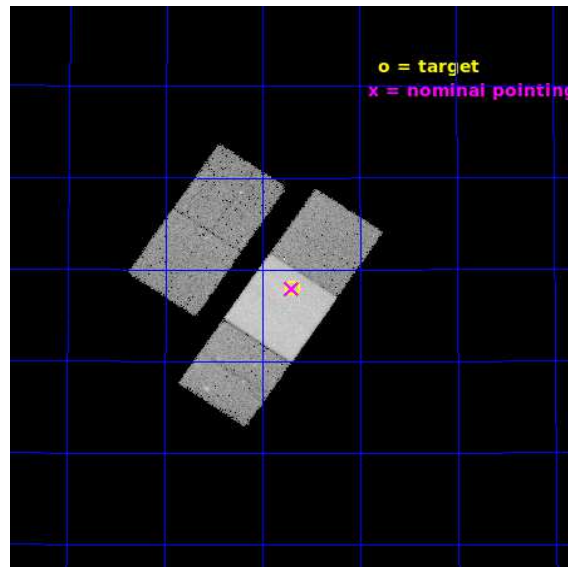
L2 Processing Date : Oct 24 2020

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1 Front

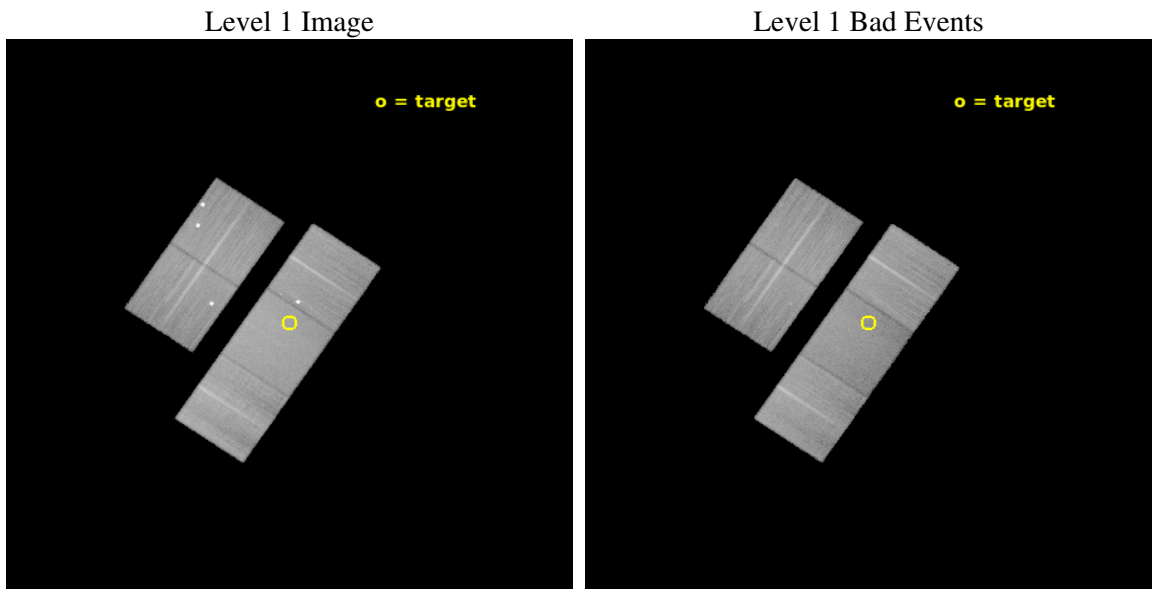
seq_num	502944	Sequence number
obs_id	19296	Observation id
title	Chandra late-time observations of PTF11QCJ: CSM-interacting SN or off-axis GRB?	Proposal title
observer	Alessandra Corsi	Principal investigator
object	PTF11qcj	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	198.422917	Observer's specified target RA [deg]
dec_targ	47.299167	Observer's specified target Dec [deg]
ra_nom	198.42465667243	Nominal RA [deg]
dec_nom	47.299016424192	Nominal Dec [deg]
roll_nom	124.15487823874	Nominal Roll [deg]
revision	3	Processing version of data
ontime	30323.274367332	Sum of GTIs [s]
livetime	29927.078464053	Livetime [s]
ontime2	30323.110207319	Sum of GTIs [s]
ontime3	30320.051187038	Sum of GTIs [s]
ontime6	30323.233327389	Sum of GTIs [s]
ontime7	30323.274367332	Sum of GTIs [s]
ontime8	30323.151247382	Sum of GTIs [s]
l2events	202005	Number of level 2 events



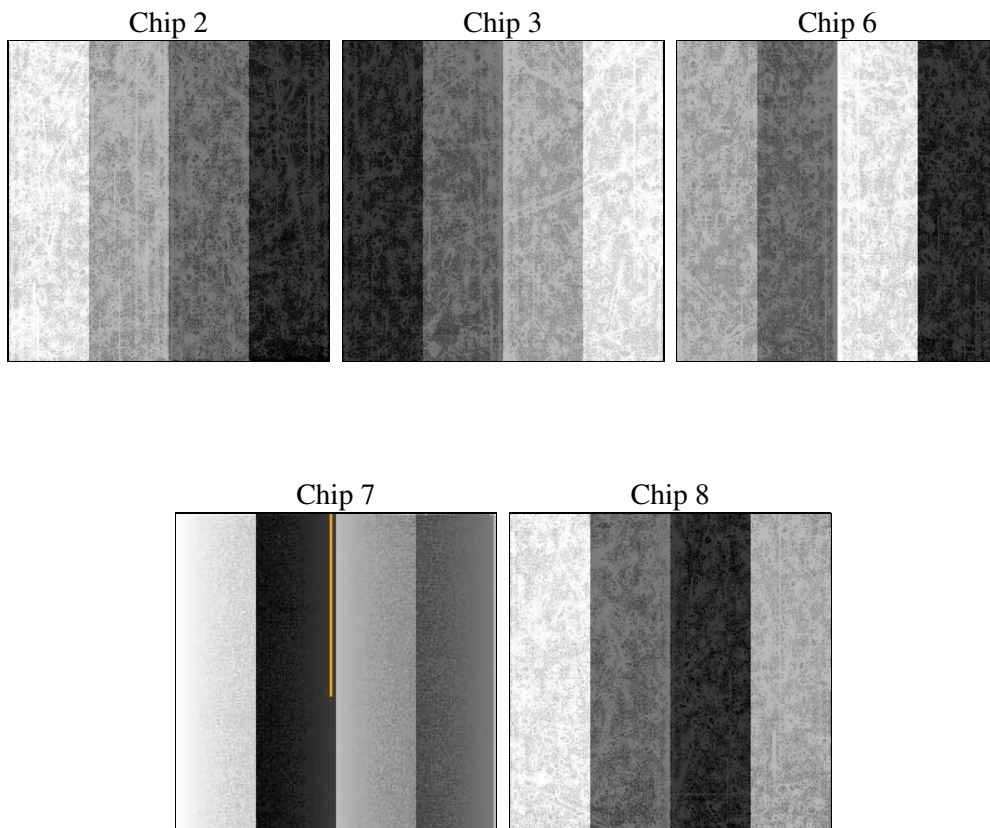
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	30273.069000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	30323.274367332	Sum of GTIs [s]
caldsver	4.9.3	 	ontime2	30323.110207319	Sum of GTIs [s]
date	2020-10-24T18:43:15	Date and time of file creation	ontime3	30320.051187038	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	30323.233327389	Sum of GTIs [s]
			ontime7	30323.274367332	Sum of GTIs [s]
			ontime8	30323.151247382	Sum of GTIs [s]
			l1events	1317611	Number of level 1 events

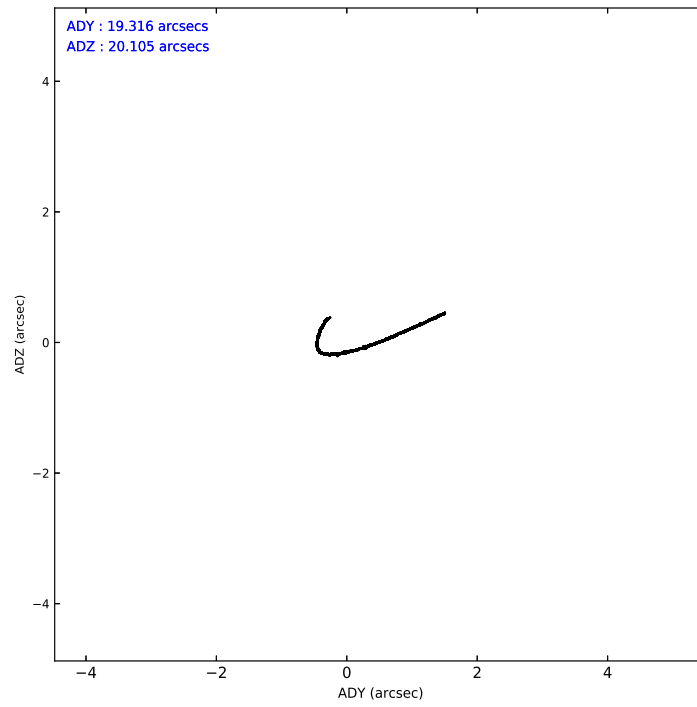
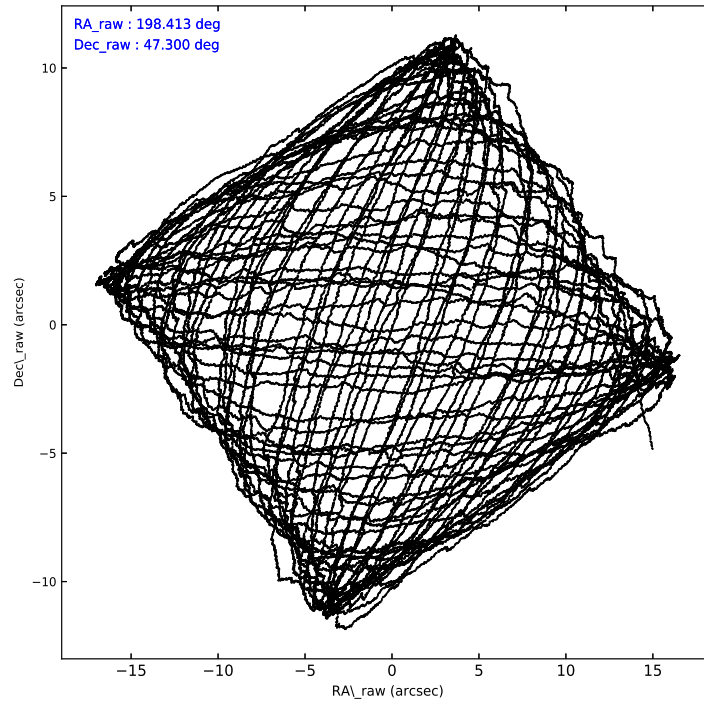
2.1.4 Events

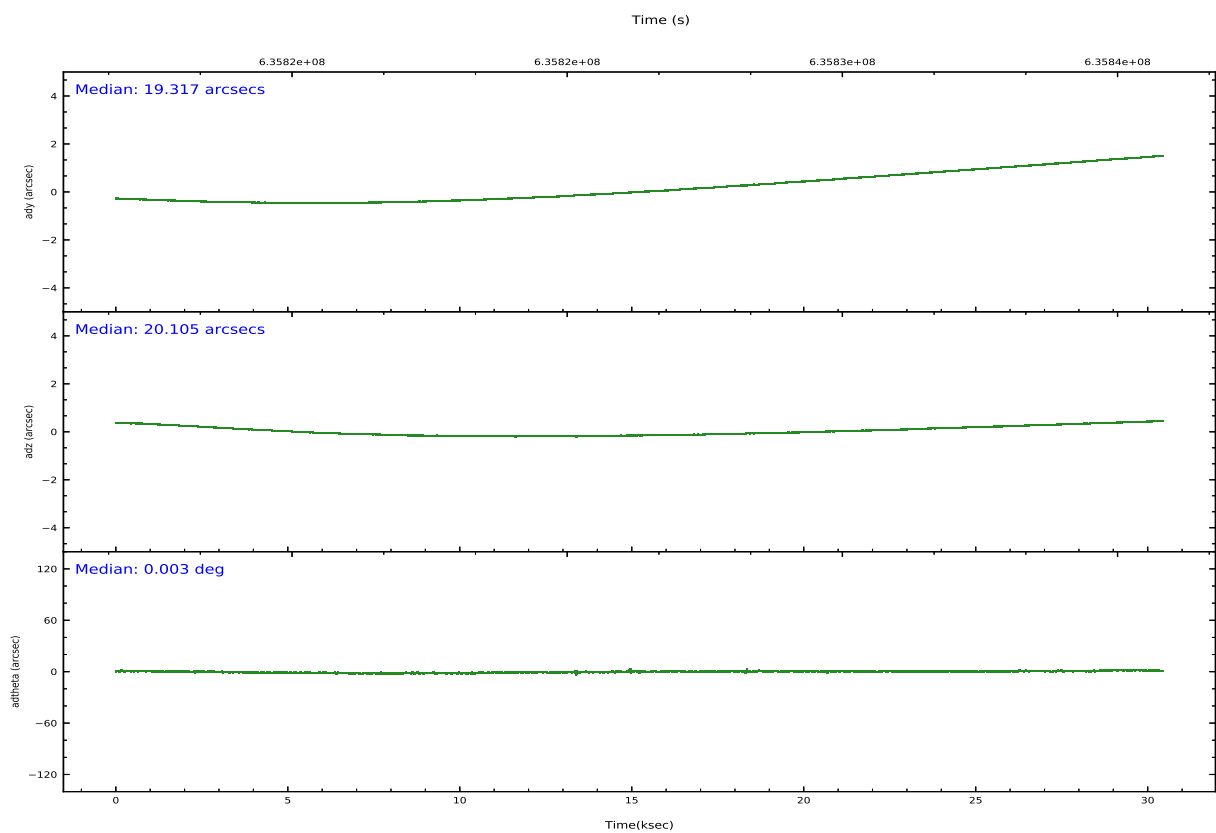
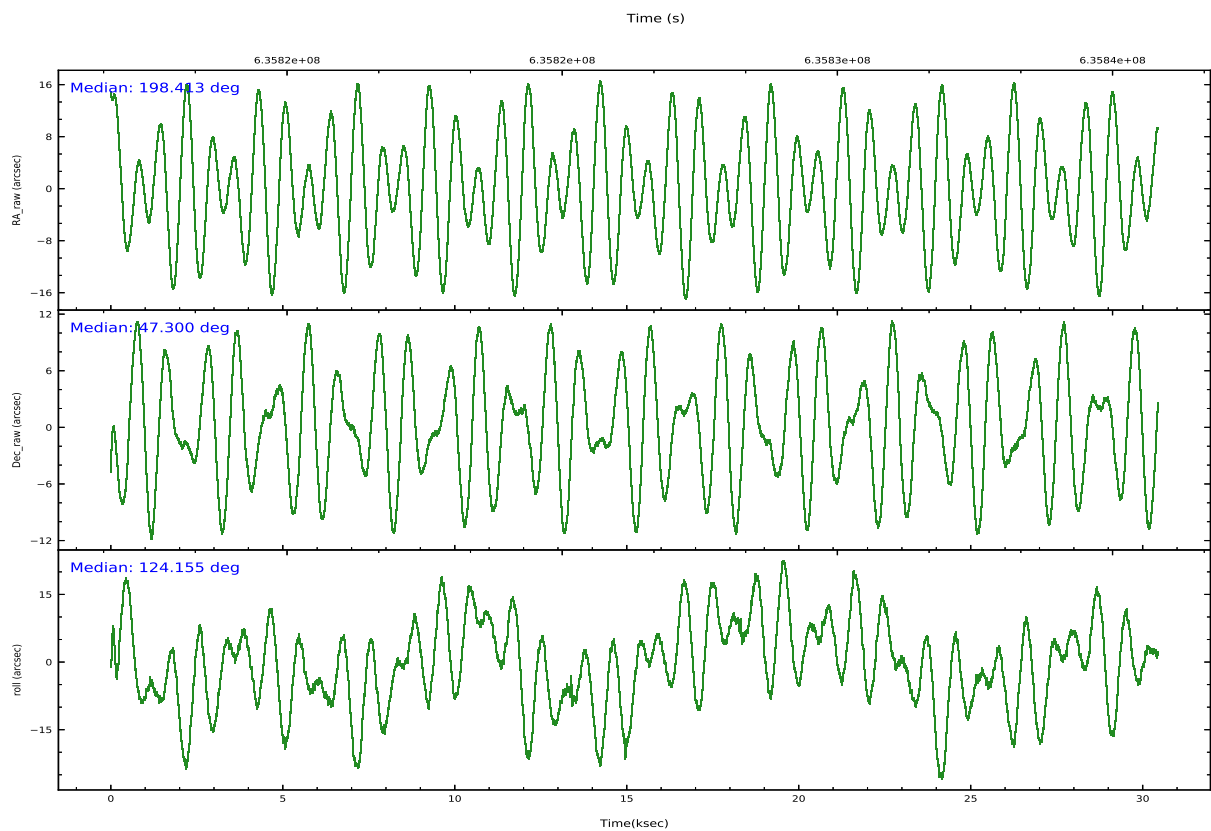
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	255672	231680	249405	287019	293835	grade 0 events	17100	16376	16234	10275	19690
rejected events	214742	200622	215102	164562	222093		6%	7%	6%	3%	6%
rejected %	83%	86%	86%	57%	75%	grade 1 events	158	165	172	369	224
							0%	0%	0%	0%	0%
						grade 2 events	14574	4856	6846	25072	17764
							5%	2%	2%	8%	6%
						grade 3 events	2248	2358	2053	9790	7328
							0%	1%	0%	3%	2%
						grade 4 events	2251	2372	2168	9503	6575
							0%	1%	0%	3%	2%
						grade 5 events	7714	9811	9266	27996	15019
							3%	4%	3%	9%	5%
						grade 6 events	4765	5100	7008	67834	20439
							1%	2%	2%	23%	6%
						grade 7 events	206862	190642	205658	136180	206796
							80%	82%	82%	47%	70%

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	198.449825	198.42465667243	CCD I2 on	O1	Y
[deg] Pointing Dec	47.288743	47.299016424192	CCD I3 on	Y	Y
[deg] Pointing Roll	123.980226	124.15487823874	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	Y	Y
[s] Observation start time (MET)	635811053.184000	635810110.55127	CCD S5 on	N	N
Observation start date	2018-02-23T22:09:44	2018-02-23T21:55:10	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	635841326.184000	635841843.01564	On-chip summing requested	N	N
Observation end date	2018-02-24T06:34:17	2018-02-24T06:44:03	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



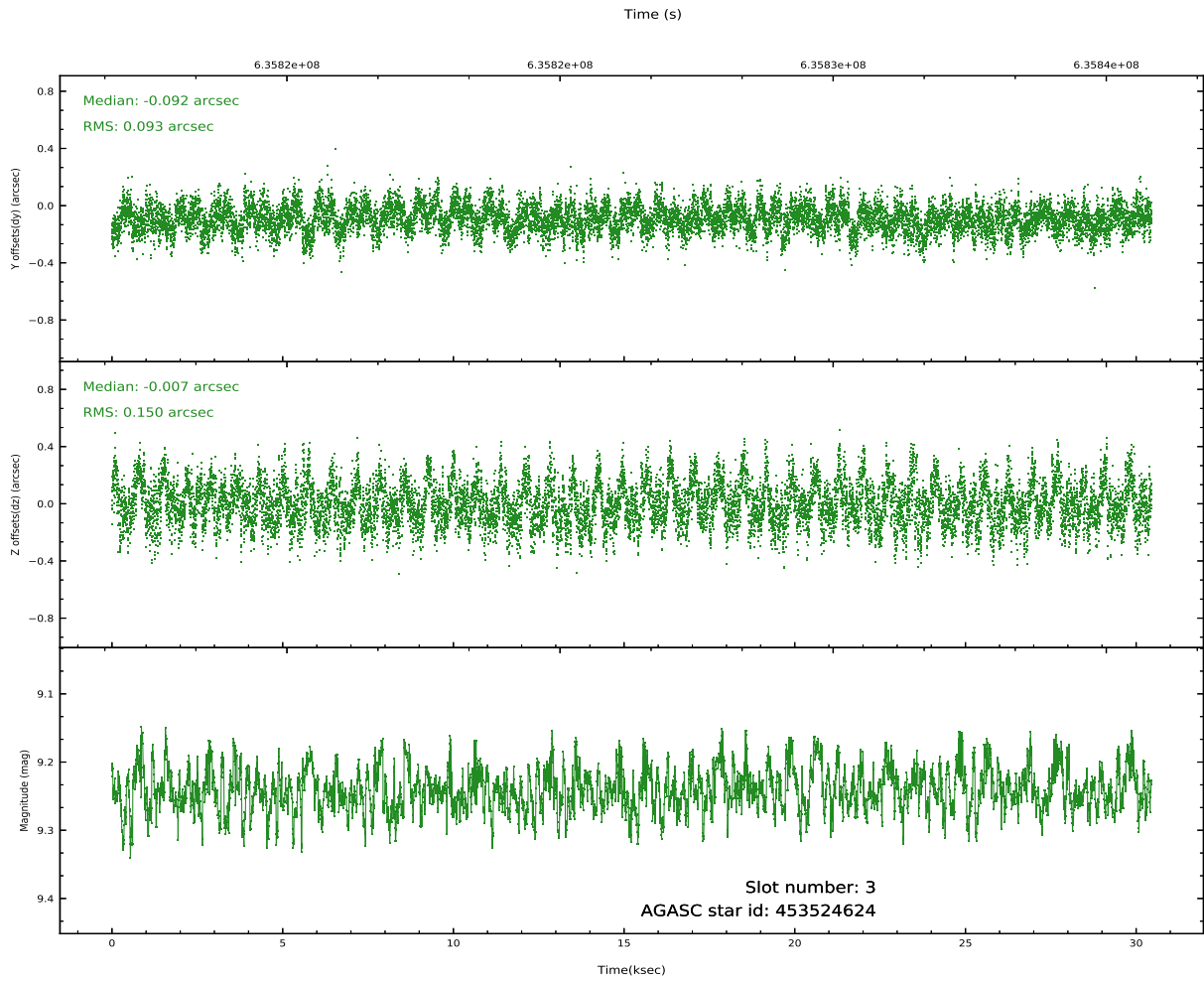
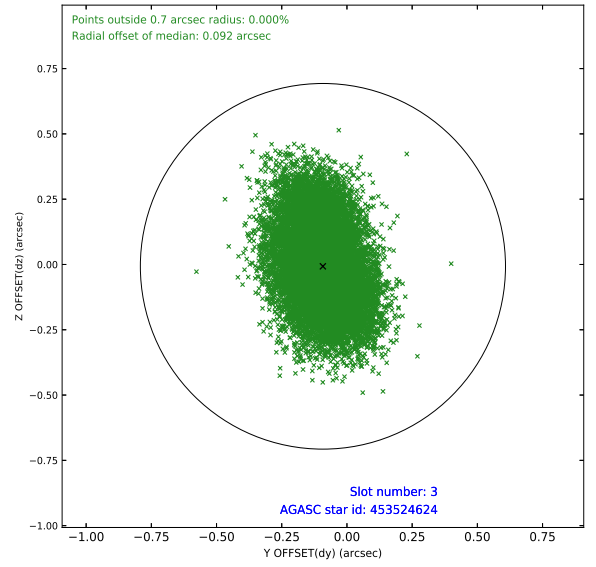
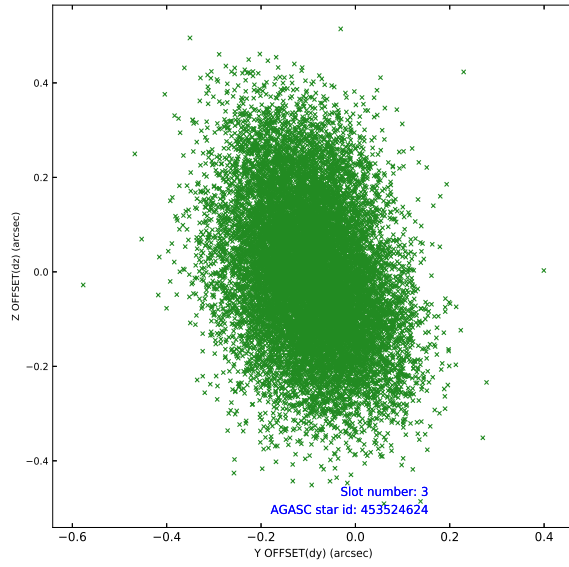


Slot Statistics

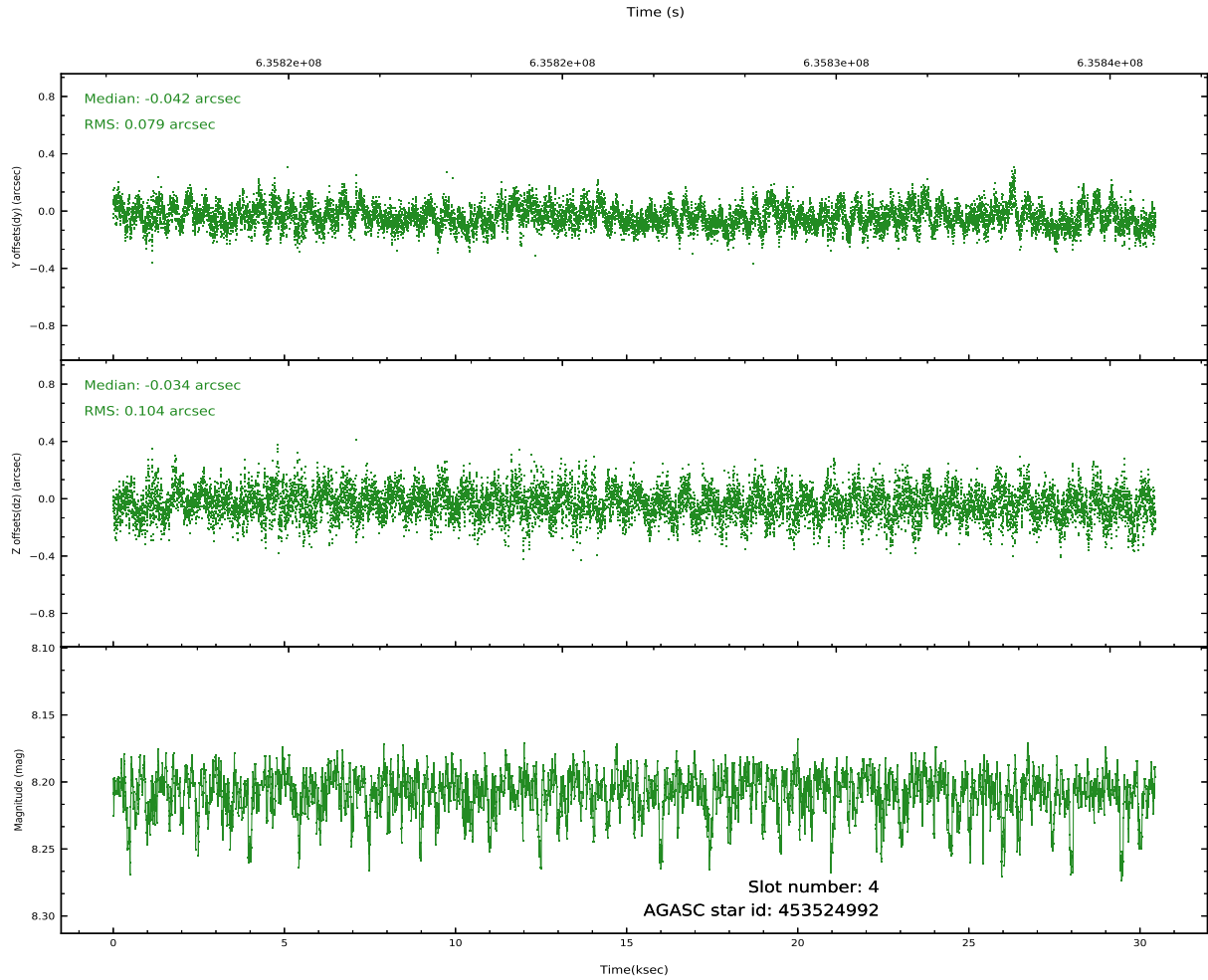
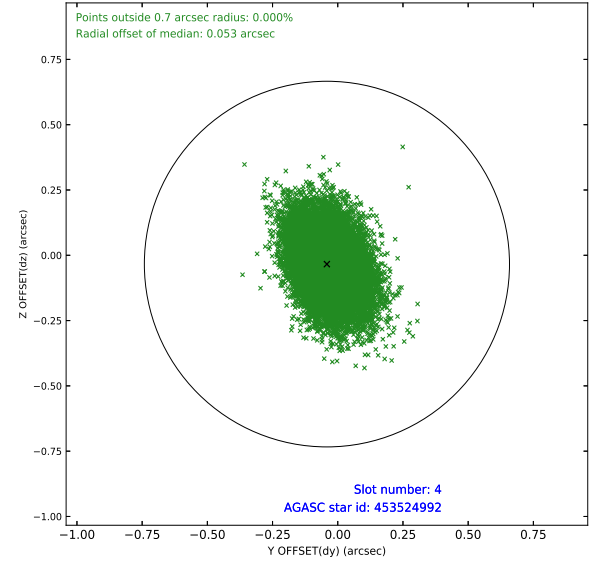
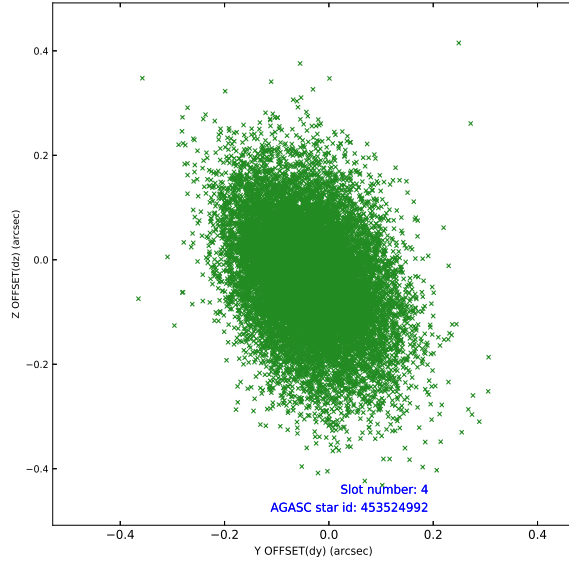
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.16	7426	1.000	0.095	-0.121	0.012	0.024	0.000000	0.000000	-772.74	-1741
1	FID		ACIS-S-4	7.28	7427	1.000	0.151	-0.013	0.013	0.048	0.000000	0.000000	2140.80	166
2	FID		ACIS-S-5	7.28	7427	1.000	-0.277	0.143	0.014	0.026	0.000000	0.000000	-1825.62	160
3	GUIDE	used	453524624	9.24	14836	1.000	-0.092	-0.007	0.186	0.313	198.193206	47.313288	425.43	472
4	GUIDE	used	453524992	8.21	14846	1.000	-0.042	-0.034	0.136	0.233	197.874605	46.952147	-211.02	1846
5	OMITTED			0.00	0	0.000	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0
6	GUIDE	used	453526776	9.16	14833	1.000	0.130	0.033	0.148	0.254	198.324802	47.032178	-594.42	770
7	OMITTED			0.00	0	0.000	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0

2.4 Star Slots

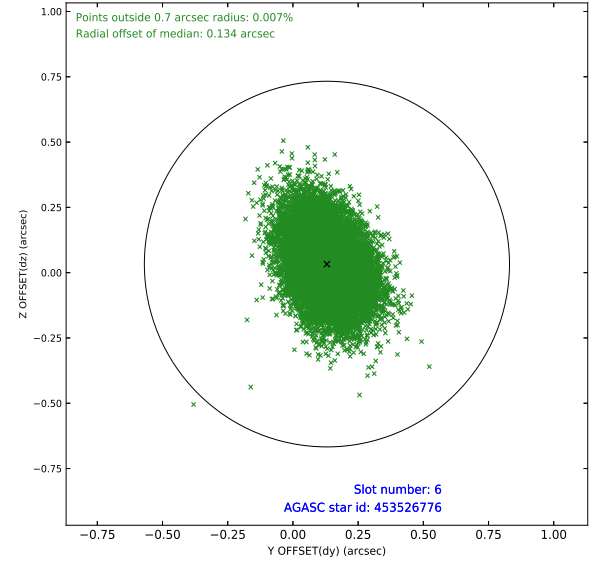
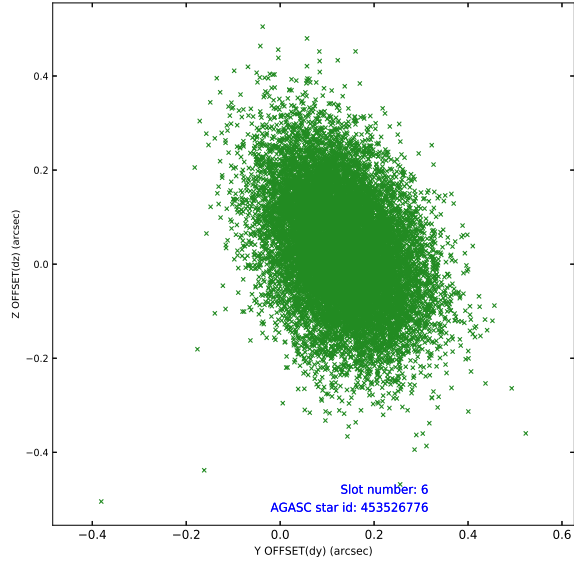
2.4.1 Slot 3



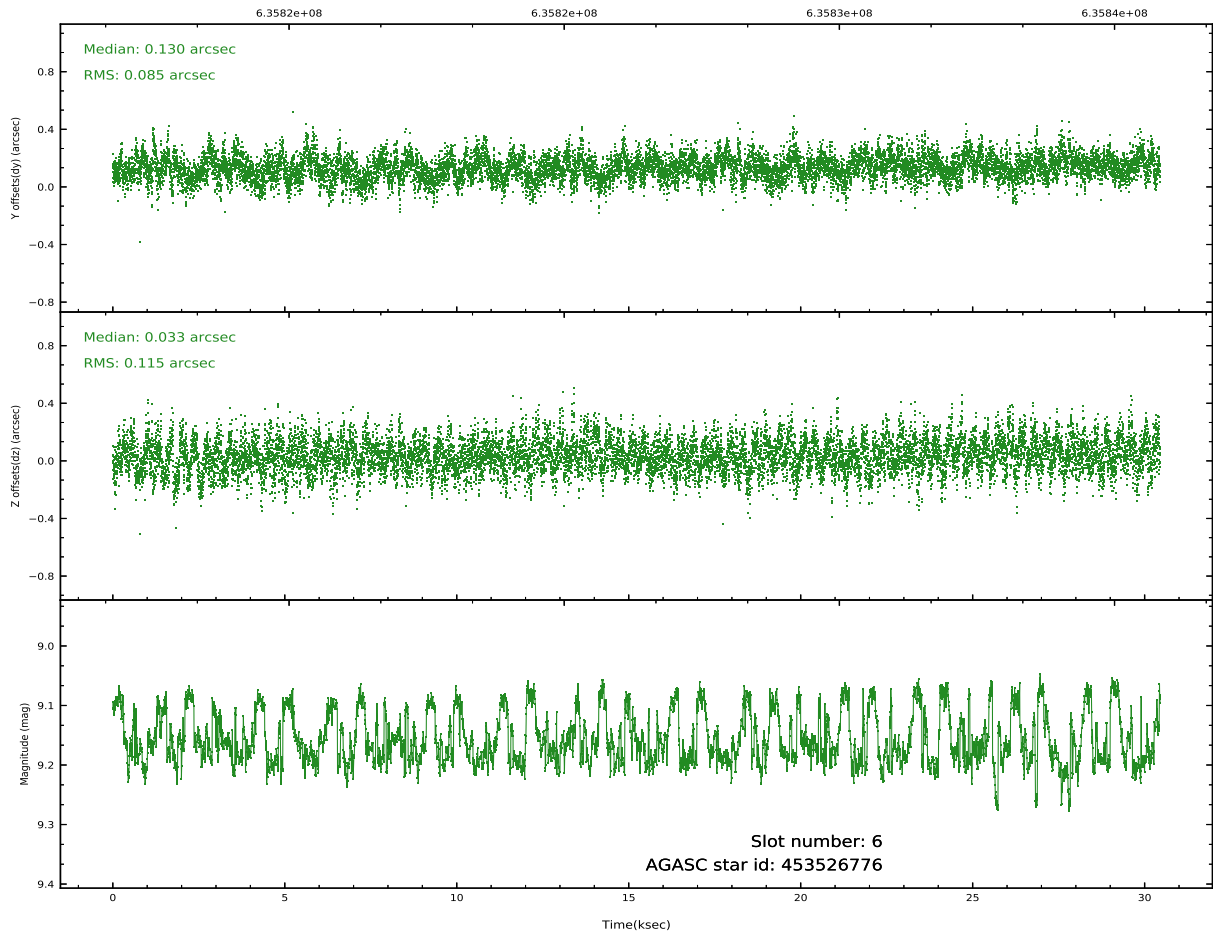
2.4.2 Slot 4



2.4.3 Slot 6

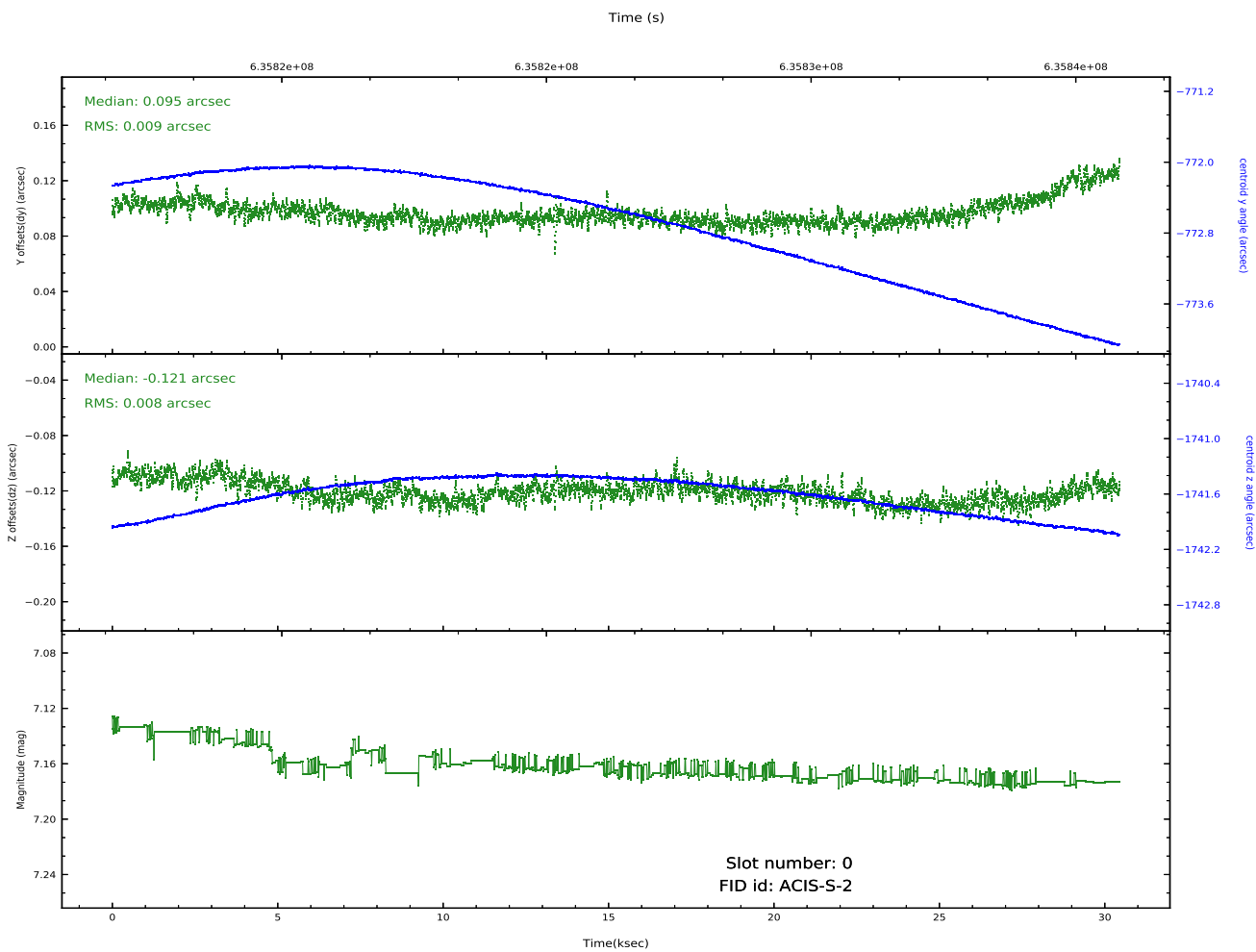
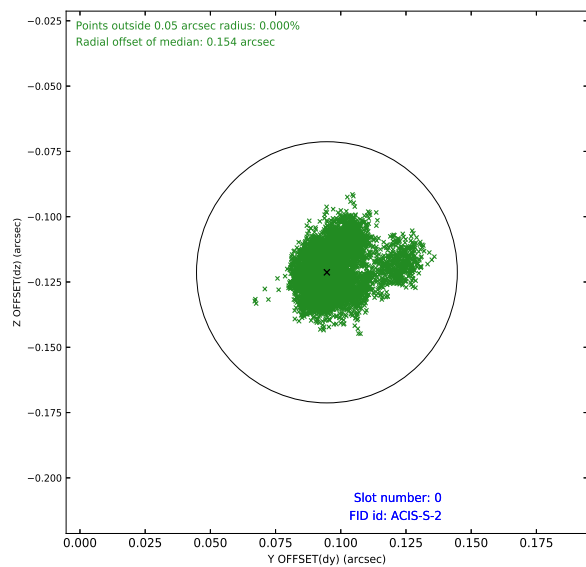
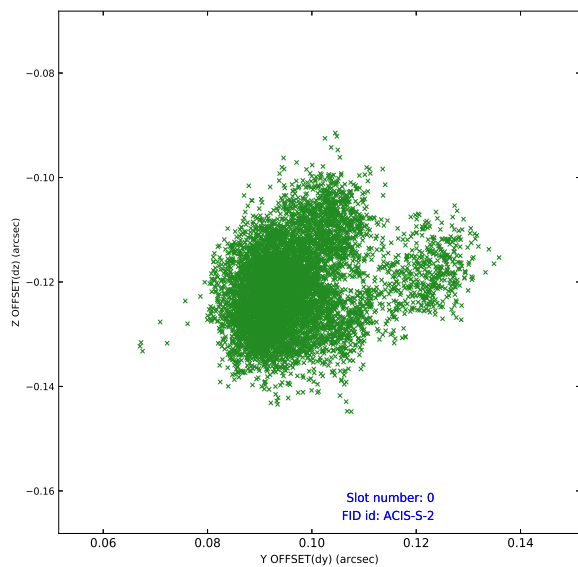


Time (s)

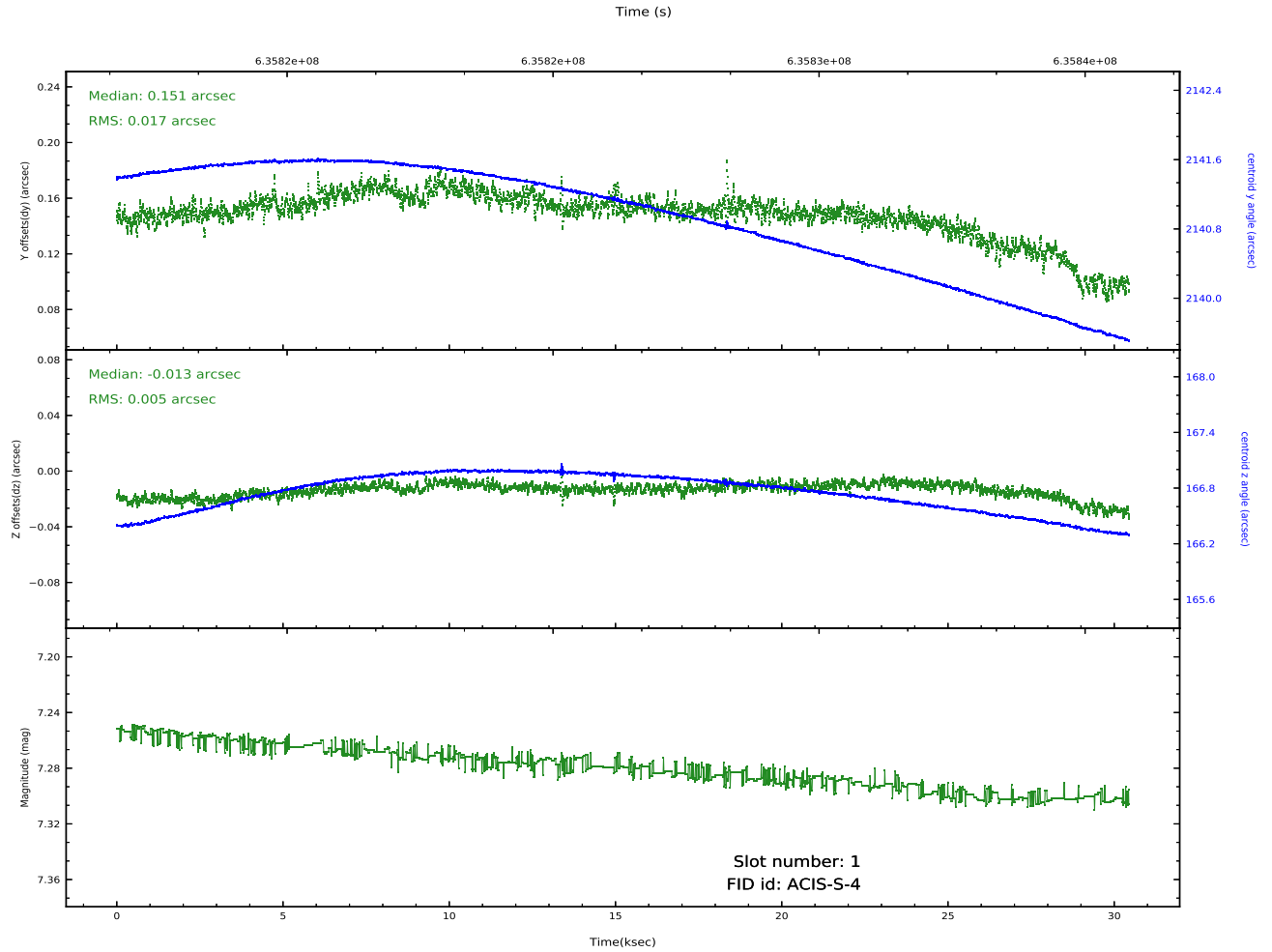
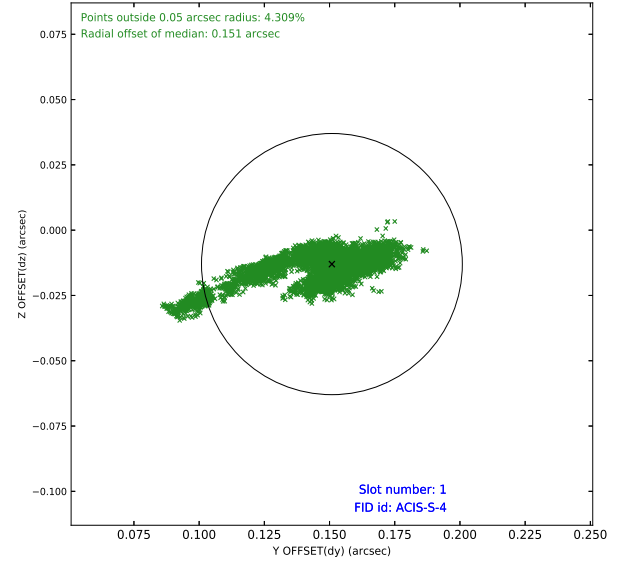
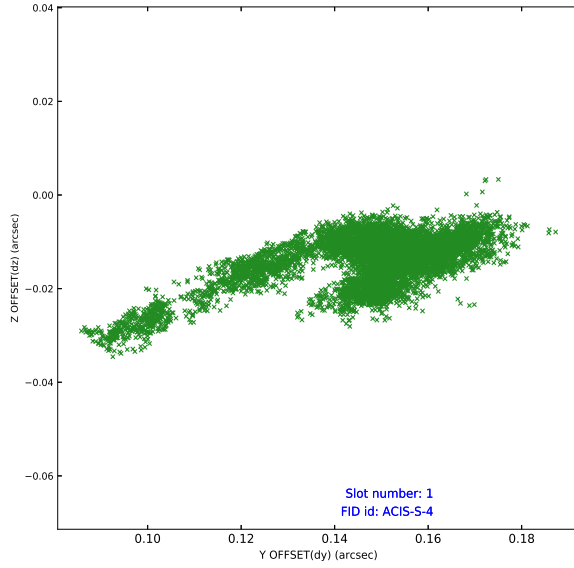


2.5 FID Slots

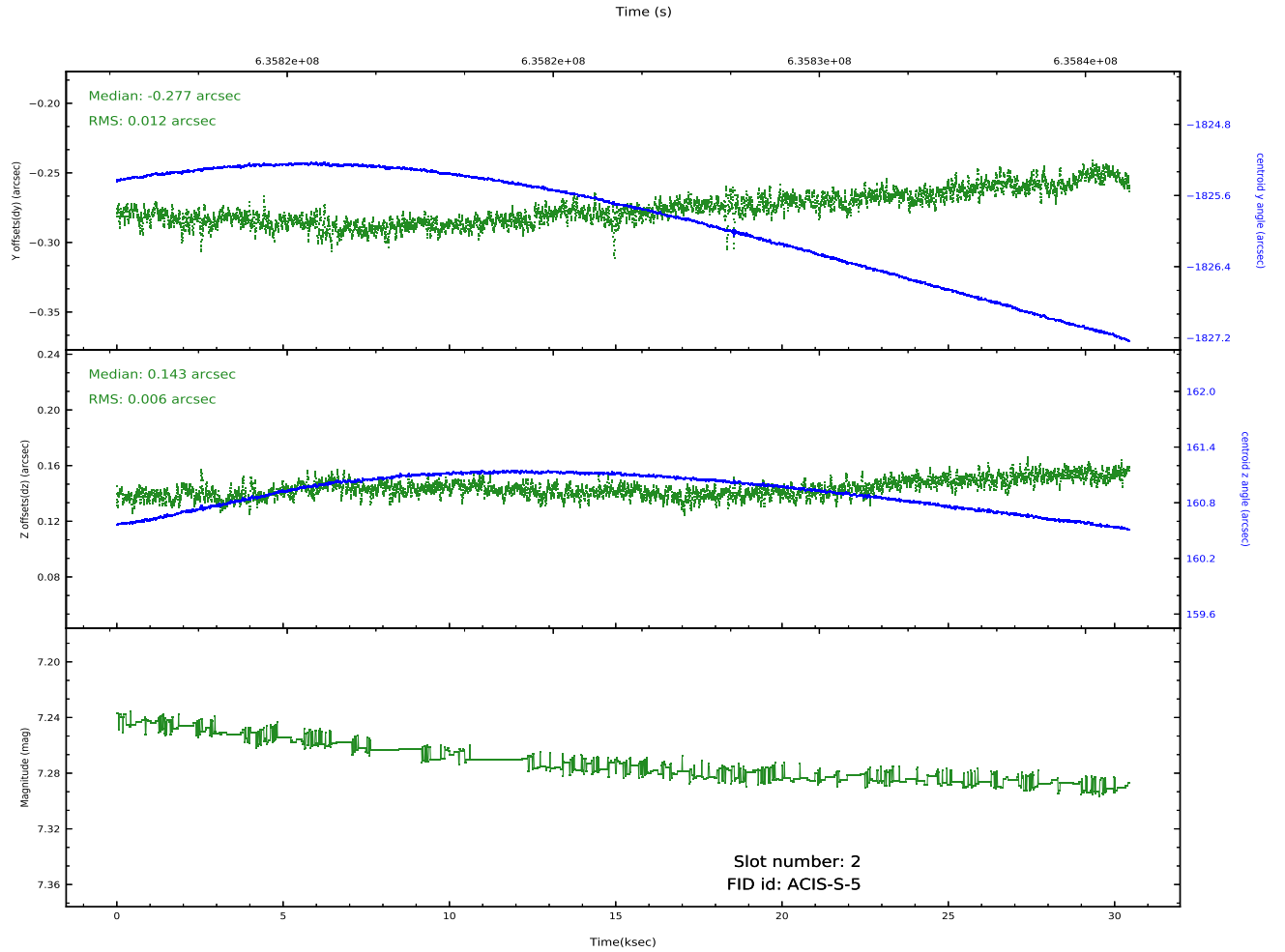
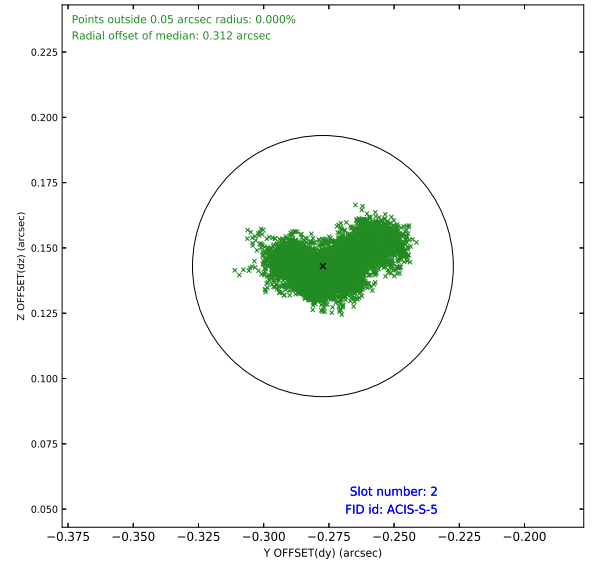
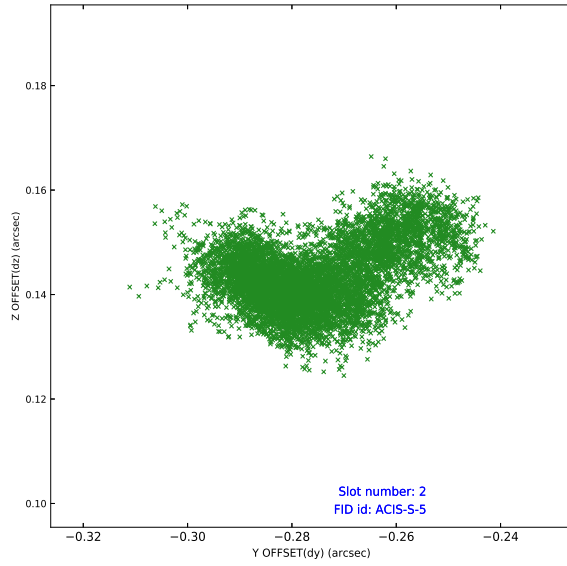
2.5.1 Slot 0



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)	2020.10.26
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	30.323274369001

A.2 Comments

The guide stars in slots 5 and 7 were removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of these guide stars from the solution.